Prüfbericht-Nr.: *Test Report No.*:	**50061773 001**	**Auftrags-Nr.:** *Order No.*:	164067052	Seite 1 von 25 *Page 1 of 25*
Kunden-Referenz-Nr.: *Client Reference No.*:	N/A	**Auftragsdatum:** *Order date*:	22.06.2016	
Auftraggeber: *Client*:	ARB Corporation Ltd. 42-44 Garden St, Kilsyth, Victoria 3137, Australia			
Prüfgegenstand: *Test item*:	ARB Fridge Freezer			
Bezeichnung / Typ-Nr.: *Identification / Type No.*:	10800010, 10800020, 10800030, 10800040			
Auftrags-Inhalt: *Order content*:	FCC Certification and Verification			
Prüfgrundlage: *Test specification*:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 v06 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-247 Issue 1 May 2015 RSS-102 Issue 5 March 2015 RSS-Gen Issue 4 November 2014			

Wareneingangsdatum: *Date of receipt*:	27.06.2017
Prüfmuster-Nr.: *Test sample No.*:	N/A
Prüfzeitraum: *Testing period*:	29.06.2016 - 21.09.2016
Ort der Prüfung: *Place of testing*:	Shenzhen Accurate Technology Co., Ltd.
Prüflaboratorium: *Testing laboratory*:	TÜV Rheinland (Shenzhen) Co., Ltd.
Prüfergebnis*: *Test result**:	Pass

geprüft von / *tested by*:			**kontrolliert von /** *reviewed by*:		
11.09.2016	Owen Tian / Senior Project Manager		10.11.2016	Winnie Hou / Technical Certifier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*	**Datum** *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other*:

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *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: Passed

5.1.2 PEAK OUTPUT POWER
RESULT: Passed

5.1.3 99% BANDWIDTH
RESULT: Passed

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHZ BANDWIDTH
RESULT: Passed

5.1.5 SPURIOUS EMISSION
RESULT: Passed

5.1.6 20DB BANDWIDTH
RESULT: Passed

5.1.7 FREQUENCY SEPARATION
RESULT: Passed

5.1.8 NUMBER OF HOPPING FREQUENCY
RESULT: Passed

5.1.9 TIME OF OCCUPANCY
RESULT: Passed

5.1.10 CONDUCTED EMISSIONS
RESULT: Passed

Contents

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

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
Spurious emission				
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	2017-01-09
Test Receiver	Rohde&Schwarz	ESCS30	100307	2017-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2017-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2017-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2017-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2017-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	ESPI3	100396/003	2017-01-09
Spectrum Analyzer	Agilent	E7405A	MY45115511	2017-01-09
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2017-01-09
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2017-01-09
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2017-01-09
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2017-01-09

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, 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

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are ±3dB.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Meterial Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, 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 EUTs are fridge freezer with wireless communication module.
The EUTs have been specifically designed for tough off road conditions and its primary purpose is for cooling down food and beverages. It may also be used as a freezer if desired.
The EUTs can connect to remote display via wireless signal to report the temperature.
The EUTs are indentical in function, circuit design and electronic components employed, except different capacity and rating. Details as below:

Model	Rating	Compressor	Capacitor
10800010	AC100-240V, 50/60Hz, 1,0-0,6A; DC12V, 5,1A or DC24V, 2,8A	BD35F with refrigerant R134a/47g	47L
10800020	AC100-240V, 50/60Hz, 0,8-0,4A; DC12V, 5,0A or DC24V, 2,5A	BD35F with refrigerant R134a/44g	35L
10800030	AC100-240V, 50/60Hz, 1,0-0,5A; DC12V, 5,3A or DC24V, 3,0A	BD35F with refrigerant R134a/56g	60L
10800040	AC100-240V, 50/60Hz, 1,2-0,6A; DC12V, 7,3A or DC24V, 3,5A	BD50F with refrigerant R134a/63g	78L

3.2 For details refer to the User Manual and Circuit Diagram. Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	ARB Fridge Freezer
Type Designation:	10800010, 10800020, 10800030, 10800040
FCC ID	2AA2H-ARB-MONITOR
IC	11414A-ARBMONITOR

Table 3: Technical Specification of EUT

Technical Specification	Value
Operating Frequency band	2435 – 2449 MHz
Channel separation	1MHz
Channel	2435MHz, 2436MHz, 2437MHz, 2438MHz, 2439MHz, 2440MHz, 2441MHz, 2442MHz, 2443MHz, 2444MHz, 2445MHz, 2446MHz, 2447MHz, 2448MHz, 2449MHz
Extreme Temperature Range	-20ºC to +55ºC
Operation Voltage	AC100-240V 50/60Hz or DC 12/24V
Modulation	GFSK
Antenna Type	Internal Antenna, Non-User Replaceable
Antenna Gain	3dBi
RF Output Power	0.0093W (9.68dBm)

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Transmitting
   1. Low channel
   2. Middle channel
   3. High channel
B. On, Receiving
C. On, Refrigeration
D. 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
- Technical Description
- 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: 2014 and ANSI C63.10: 2013.

Due to models' differences indicated in clause 3.1, full test was applied on model 10800010 only. The EUT was named as 10900026 during test, the license holder changed model number to 10800010 finally.

4.3 Special Accessories and Auxiliary Equipment

N/A

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 (Below 1GHz)

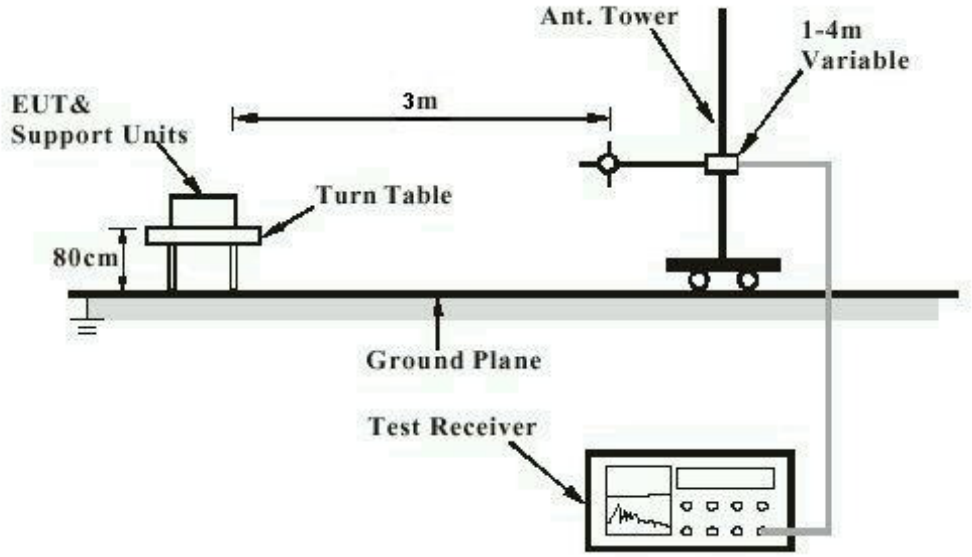


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

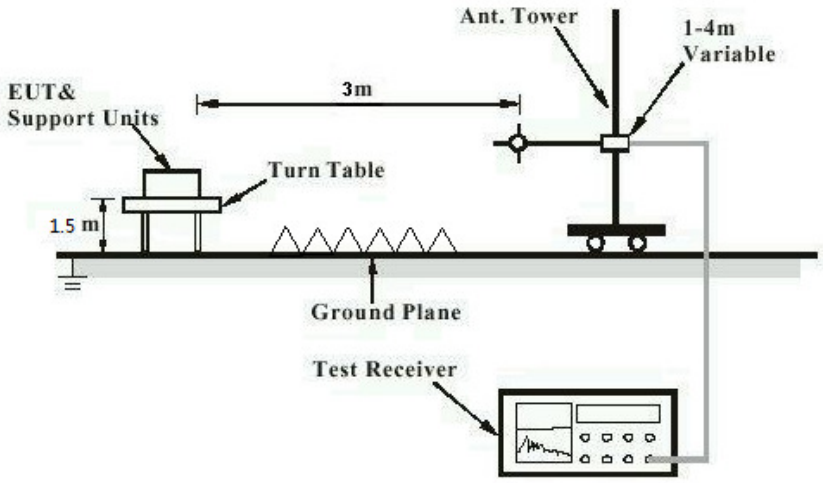


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement

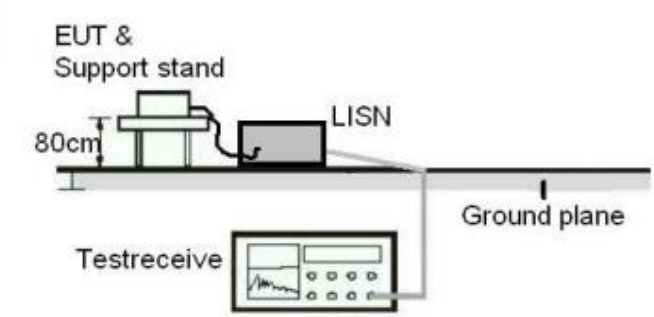
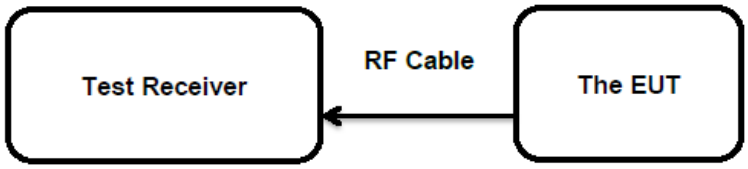


Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Passed**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203 RSS-Gen 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 2dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT photo for details.

5.1.2 Peak Output Power

RESULT: **Passed**

Test date	:	2016-06-29
Test standard	:	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(2)
Basic standard	:	ANSI C63.10: 2013
Limit	:	0.125 Watt
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 4: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2435	9.07	0.0081	<0.125
Middle Channel	2442	9.38	0.0087	<0.125
High Channel	2449	9.68	0.0093	<0.125

5.1.3 99% Bandwidth

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 5: Test result of 99% Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2435	978	/	Pass
Mid Channel	2442	978	/	Pass
High Channel	2449	972	/	Pass

5.1.4 Conducted spurious emissions measured in 100kHz Bandwidth

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	FCC part 15.247(d) RSS-247 Clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

All emissions are more than 20dB below fundamental, details refer to Appendix 1, and compliance is achived as well.

.

5.1.5 Spurious Emission

RESULT: **Passed**

Date of testing	:	2016-09-21
Test standard	:	FCC part 15.247(d) FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

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

Remark:
During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.
Testing was carried out within frequency range 9kHz to the tenth harmonics.

For details refer to Appendix 1.

5.1.6 20dB Bandwidth

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	FCC Part 15.247(a)(1) RSS-247 Clause 5.1(1)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 6: Test result of 20dB Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2435	702	/	Pass
Mid Channel	2442	630	/	Pass
High Channel	2449	658	/	Pass

5.1.7 Frequency Separation

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1 (b)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 7: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2435	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2436			
Mid Channel	2441	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2448	1	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2449			

5.1.8 Number of hopping frequency

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	≥ 15 non-overlapping channels
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	B
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 8: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	15	≥15	Pass

5.1.9 Time of Occupancy

RESULT: **Passed**

Date of testing	:	2016-06-29
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-247 Clause5.1(4)
Basic standard	:	ANSI C63.10: 2013
Limits	:	<0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

Table 9: Test result of Time of Occupancy

Channel	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
Low Channel	0.22	0.013	0.4	Pass
Mid Channel	0.22	0.013	0.4	Pass
High Channel	0.22	0.013	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x Number of channels

5.1.10 Conducted emissions

RESULT: **Passed**

Date of testing	:	2016-06-30
Test standard	:	FCC Part 15.107(a) & FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4: 2014
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207(a) & FCC Part 15.207(a) RSS-Gen Table 3
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 100-240V 50/60Hz
Operation Mode	:	C
Earthing	:	Not connected
Ambient temperature	:	25℃
Relative humidity	:	55%
Atmospheric pressure	:	101 kPa

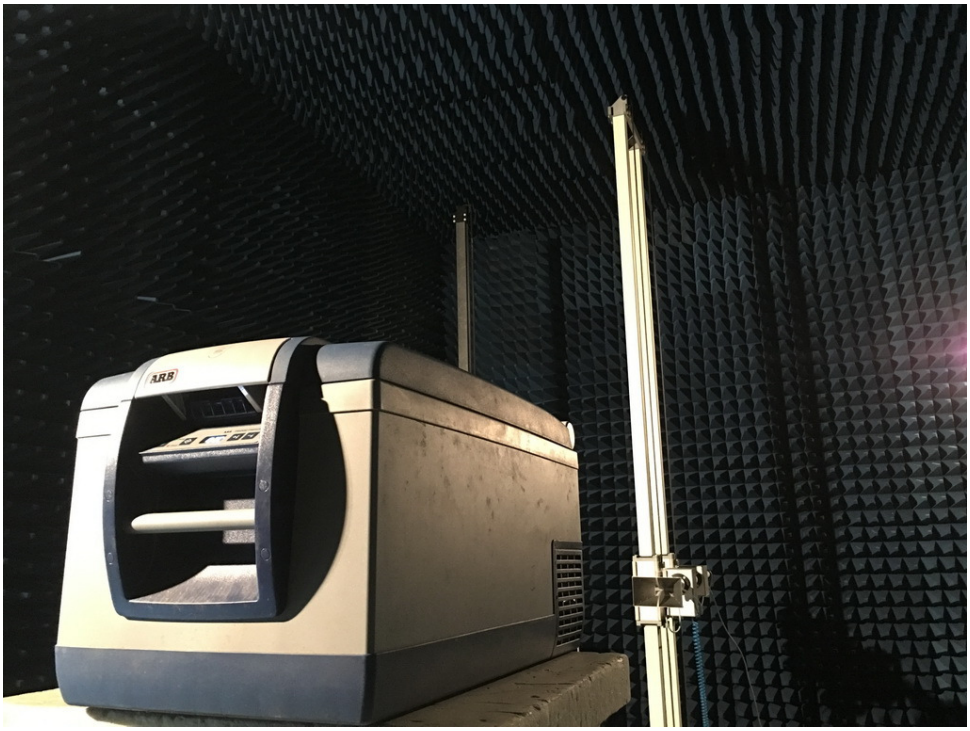
For details refer to Appendix 1.

6. Photographs of the Test Set-Up

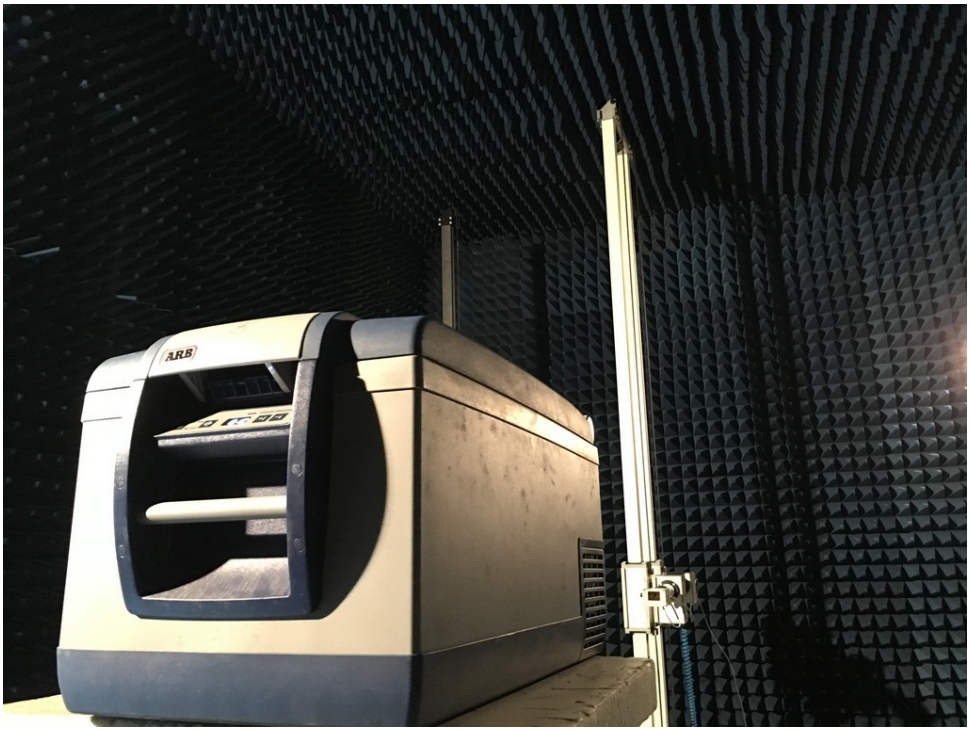
Photograph 1: Set-up for Spurious Emissions (9kHz-30MHz)

Photograph 2: Set-up for Spurious Emissions (30MHz-1GHz)

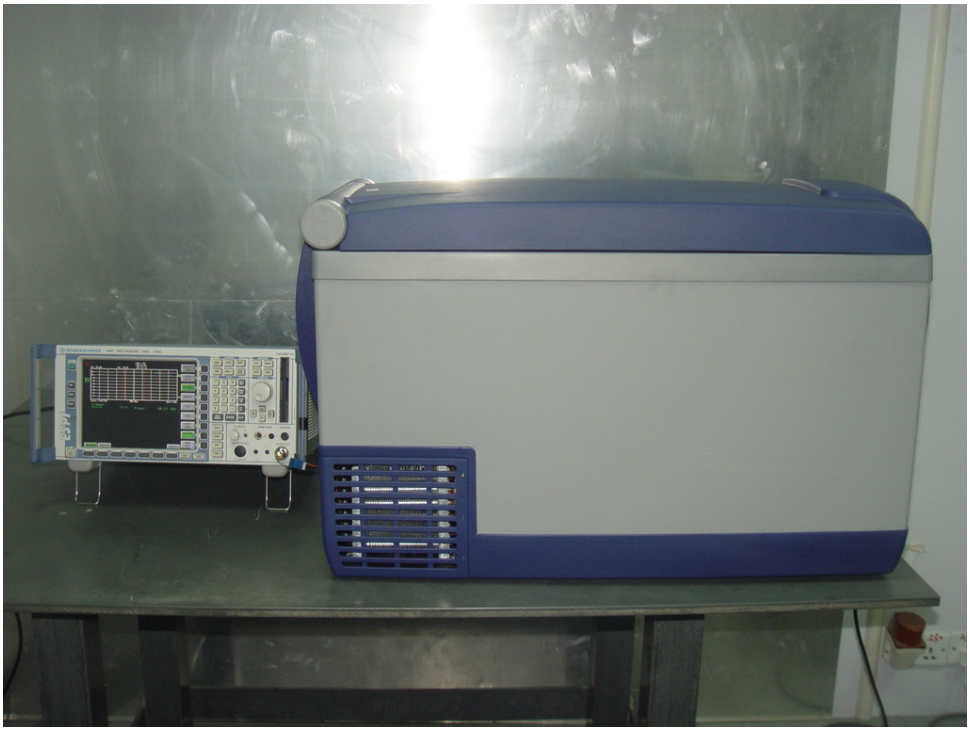
Photograph 3: Set-up for Spurious Emissions (1GHz-18GHz)



Photograph 4: Set-up for Spurious Emissions (18GHz-26GHz)



Photograph 5: Set-up for Conducted Emissions



7. List of Tables

8. List of Photographs

List of Figures

Figure 1: Test figure of spurious emissions, mode A.1, Horizontal polarity (9kHz – 30MHz),

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                 ARB Monitor M/N:10900026
Manufacturer:        Mobicool
Operating Condition: TX 2435MHz
Test Site:           2# Chamber
Operator:            LGWADE
Test Specification:  DC 3.7V
Comment:             X
```

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

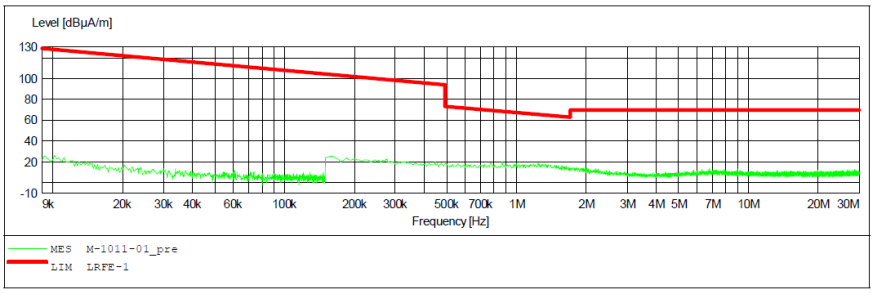


Figure 2: Test figure of spurious emissions, mode A.1, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                 ARB Monitor M/N:10900026
Manufacturer:        Mobicool
Operating Condition: TX 2435MHz
Test Site:           2# Chamber
Operator:            LGWADE
Test Specification:  DC 3.7V
Comment:             Y
```

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

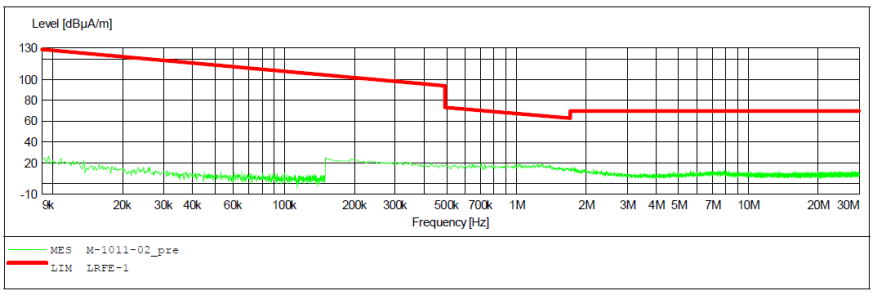


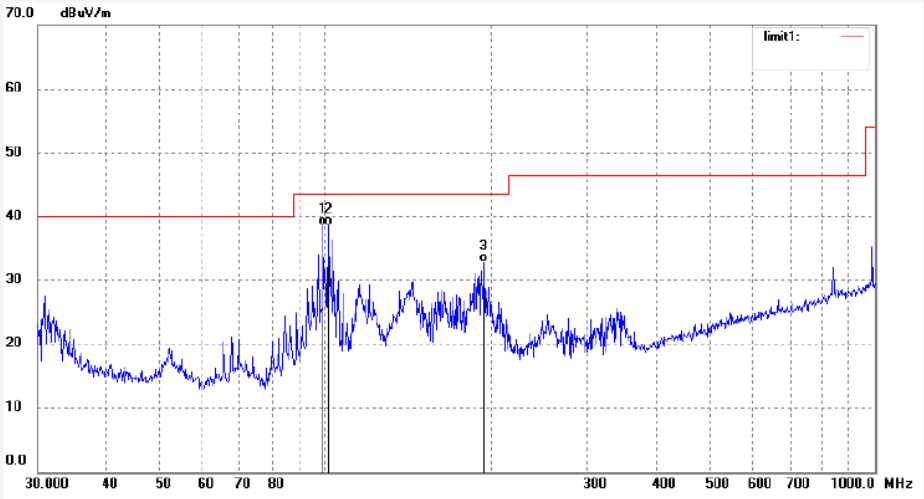
Figure 3: Test figure of spurious emissions, mode A.1, Horizontal polarity (30MHz – 1GHz)

ATC®
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.: tuv2015 #3810
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: ARB Monitor
Mode: TX 2435MHz
Model: 10900026
Manufacturer: Mobicool

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 16/09/21/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:



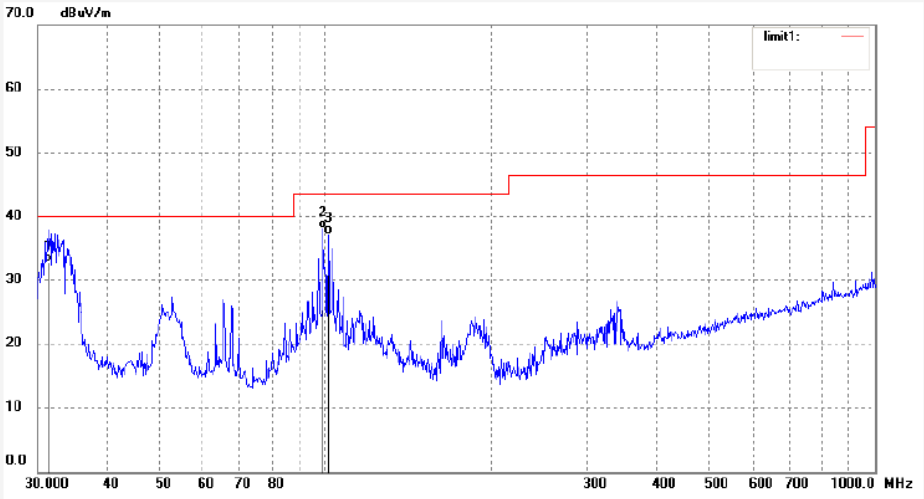
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.1796	53.05	-14.40	38.65	43.50	-4.85	QP			
2	101.2883	52.96	-14.33	38.63	43.50	-4.87	QP			
3	194.4533	46.27	-13.49	32.78	43.50	-10.72	QP			

Figure 4: Test figure of spurious emissions, mode A.1, Vertical polarity (30MHz – 1GHz)

ATC®
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.: tuv2015 #3811	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.3992	42.20	-9.34	32.86	40.00	-7.14	QP			
2	99.1796	52.51	-14.40	38.11	43.50	-5.39	QP			
3	101.2883	51.54	-14.33	37.21	43.50	-6.29	QP			

Figure 5: Test figure of spurious emissions, mode A.1, Horizontal polarity (1GHz –18GHz)

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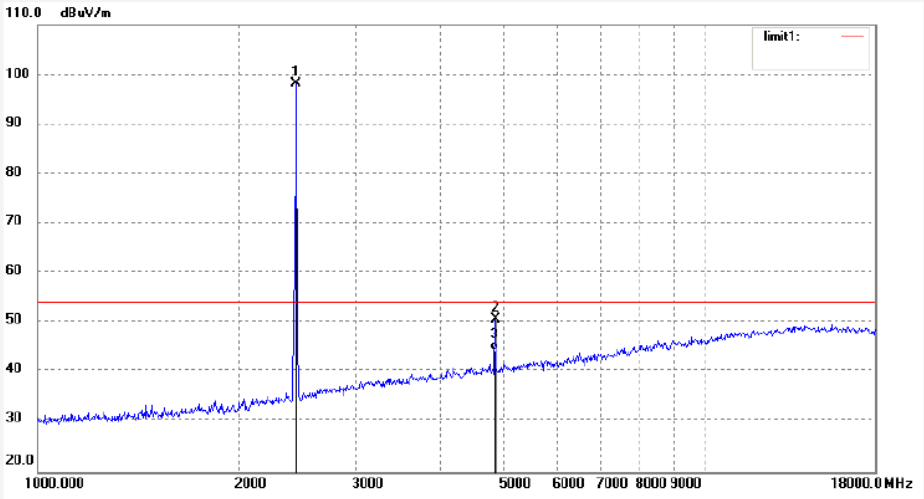
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2939	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2435.000	105.50	-7.37	98.13	/	/	peak			
2	4870.032	50.56	0.07	50.63	74.00	-23.37	peak			
3	4870.032	44.27	0.07	44.34	54.00	-9.66	AVG			

Figure 6: Test figure of spurious emissions, mode A.1, Vertical polarity (1GHz – 18GHz)

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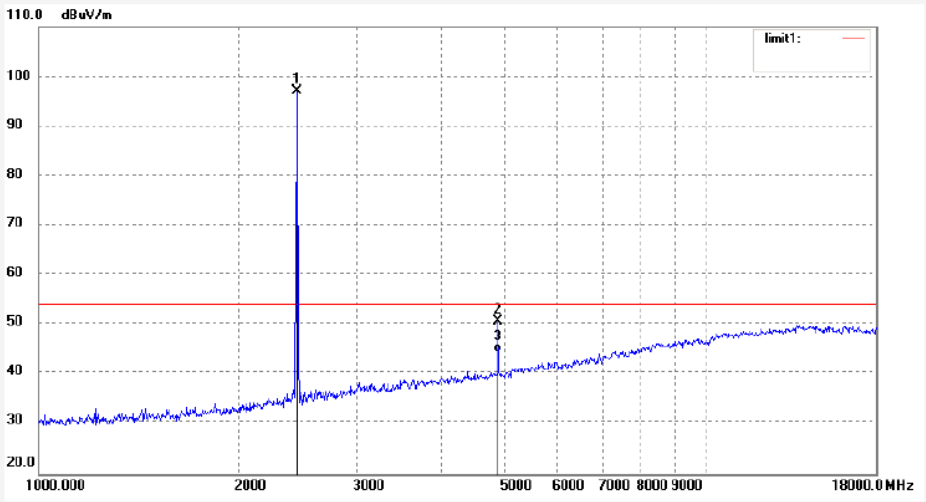
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2938	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2435.000	104.36	-7.37	96.99	/	/	peak			
2	4870.027	50.55	0.07	50.62	74.00	-23.38	peak			
3	4870.027	44.27	0.07	44.34	54.00	-9.66	AVG			

Figure 7: Test figure of spurious emissions, mode A.1, Horizontal polarity (18GHz –25GHz)

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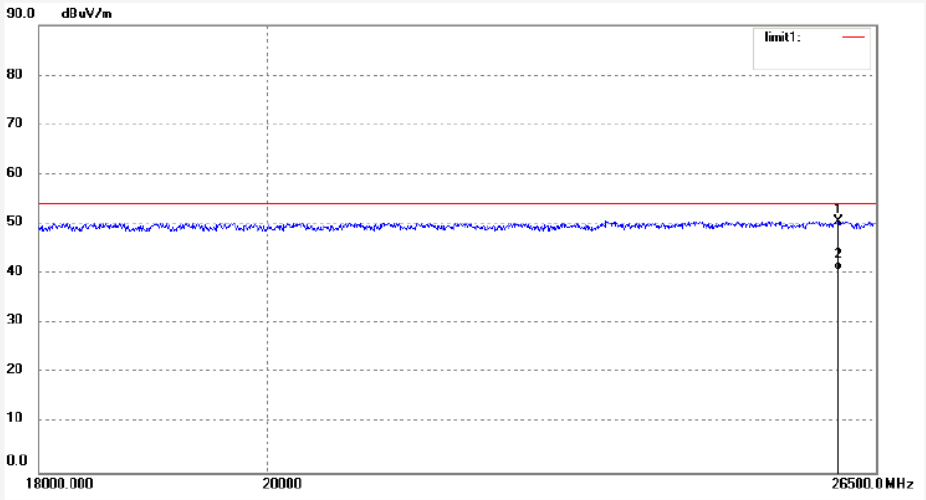
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2948	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26042.764	34.09	16.50	50.59	74.00	-23.41	peak			
2	26042.764	24.16	16.50	40.66	54.00	-13.34	AVG			

Figure 8: Test figure of spurious emissions, mode A.1, Vertical polarity (18GHz – 25GHz)

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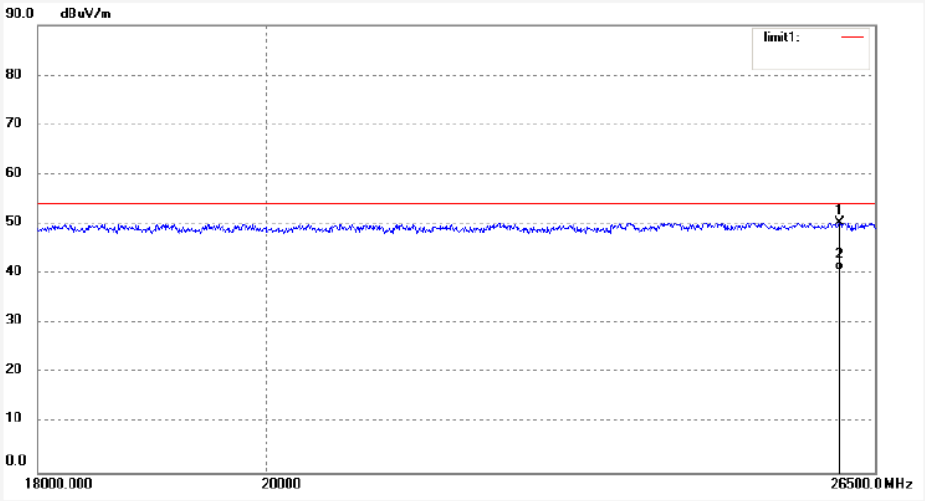
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2949	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.999	33.07	17.18	50.25	74.00	-23.75	peak			
2	26072.999	23.45	17.18	40.63	54.00	-13.37	AVG			

Figure 9: Test figure of spurious emissions, mode A.2, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  ARB Monitor M/N:10900026
Manufacturer:         Mobicool
Operating Condition:  TX 2442MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              X
```

SCAN TABLE: "LFRE 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  1516M
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz   1516M
```

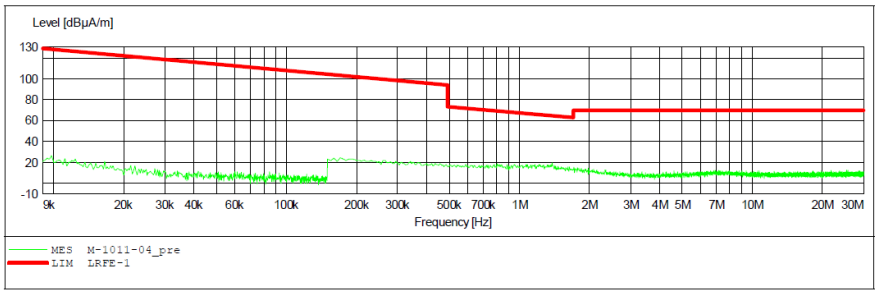


Figure 10: Test figure of spurious emissions, mode A.2, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

```
EUT:                  ARB Monitor M/N:10900026
Manufacturer:         Mobicool
Operating Condition:  TX 2442MHz
Test Site:            2# Chamber
Operator:             LGWADE
Test Specification:   DC 3.7V
Comment:              Z
```

SCAN TABLE: "LFRE 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  1516M
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz   1516M
```

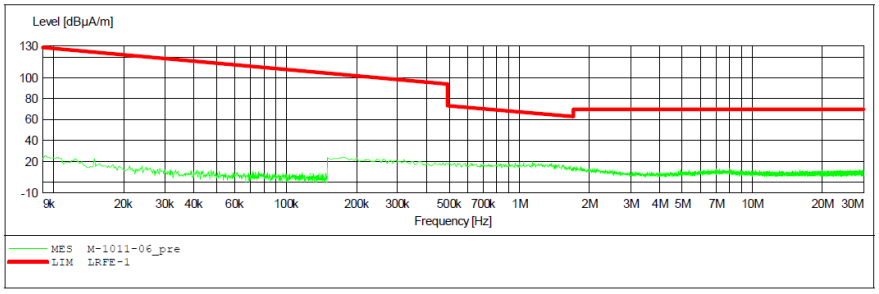


Figure 11: Test figure of spurious emissions, mode A.2, Horizontal polarity (30MHz – 1GHz)

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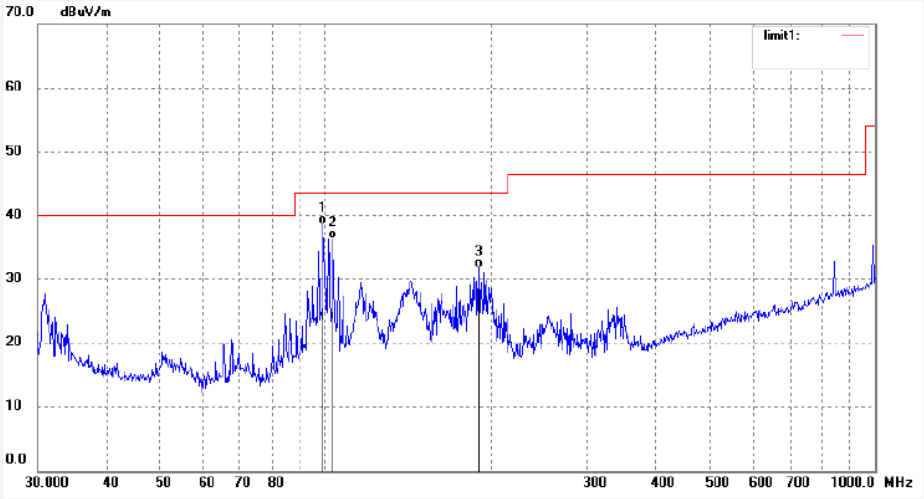
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: tuv2015 #3813	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.1796	52.99	-14.40	38.59	43.50	-4.91	QP			
2	103.4419	51.09	-14.70	36.39	43.50	-7.11	QP			
3	190.4050	45.38	-13.64	31.74	43.50	-11.76	QP			

Figure 12: Test figure of spurious emissions, mode A.2, Vertical polarity (30MHz – 1GHz)

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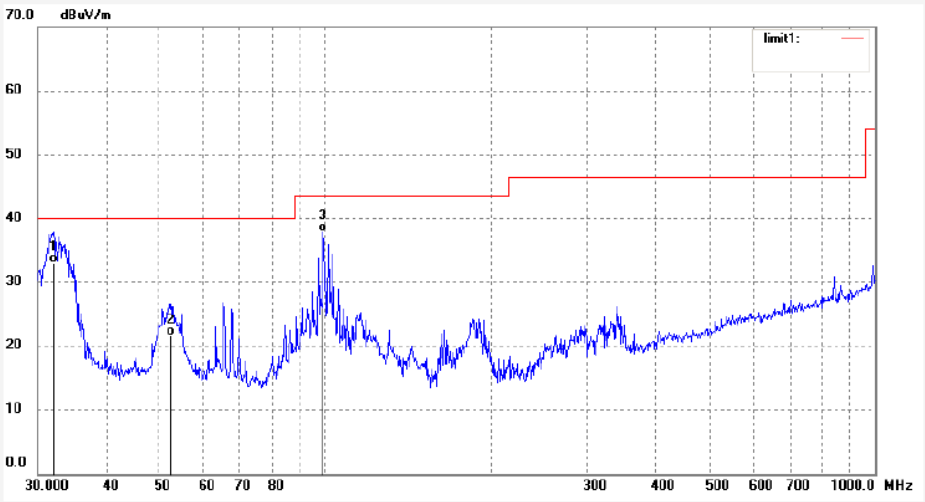
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: tuv2015 #3812	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.0667	42.48	-9.54	32.94	40.00	-7.06	QP			
2	52.3912	34.35	-12.78	21.57	40.00	-18.43	QP			
3	99.1796	52.37	-14.40	37.97	43.50	-5.53	QP			

Figure 13: Test figure of spurious emissions, mode A.2, Horizontal polarity (1GHz – 18GHz)

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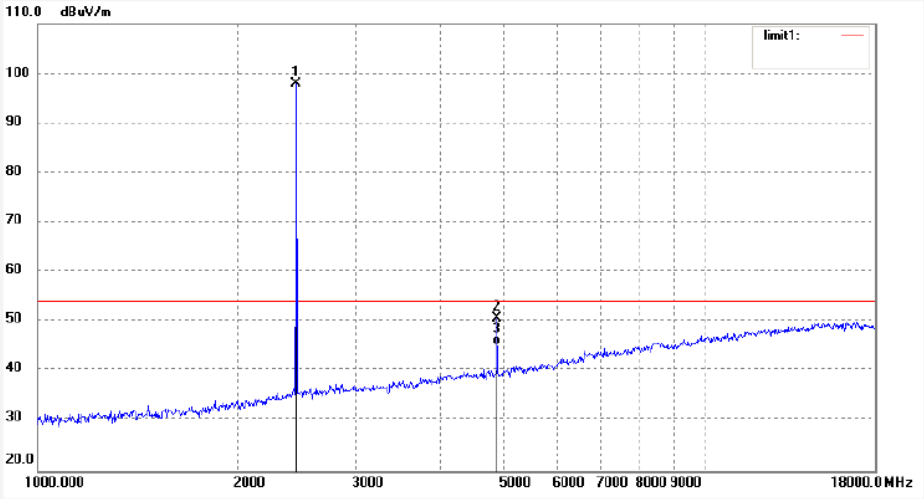
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2940	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.000	105.30	-7.35	97.95	/	/	peak			
2	4884.034	50.53	0.15	50.68	74.00	-23.32	peak			
3	4884.034	45.23	0.15	45.38	54.00	-8.62	AVG			

Figure 14: Test figure of spurious emissions, mode A.2, Vertical polarity (1GHz – 18GHz)

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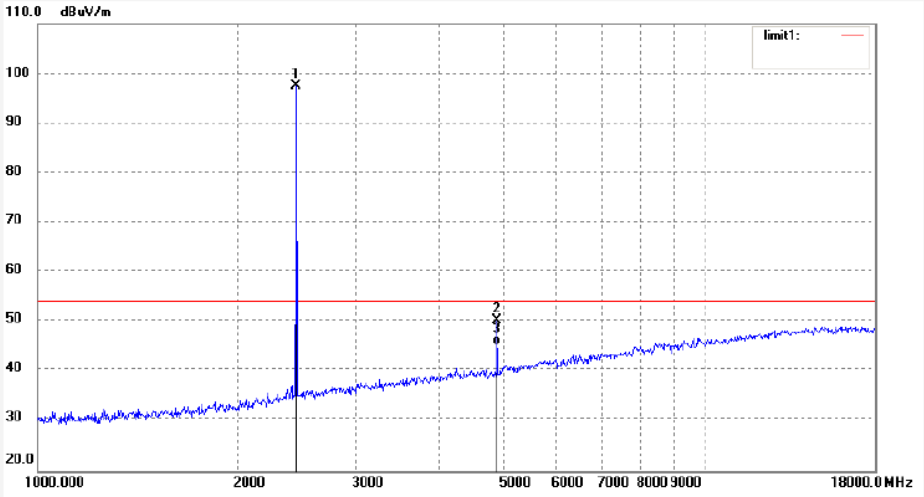
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2941	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2442.000	104.84	-7.35	97.49	/	/	peak			
2	4884.029	50.03	0.15	50.18	74.00	-23.82	peak			
3	4884.029	45.22	0.15	45.37	54.00	-8.63	AVG			

Figure 15: Test figure of spurious emissions, mode A.2, Horizontal polarity (18GHz – 25GHz)

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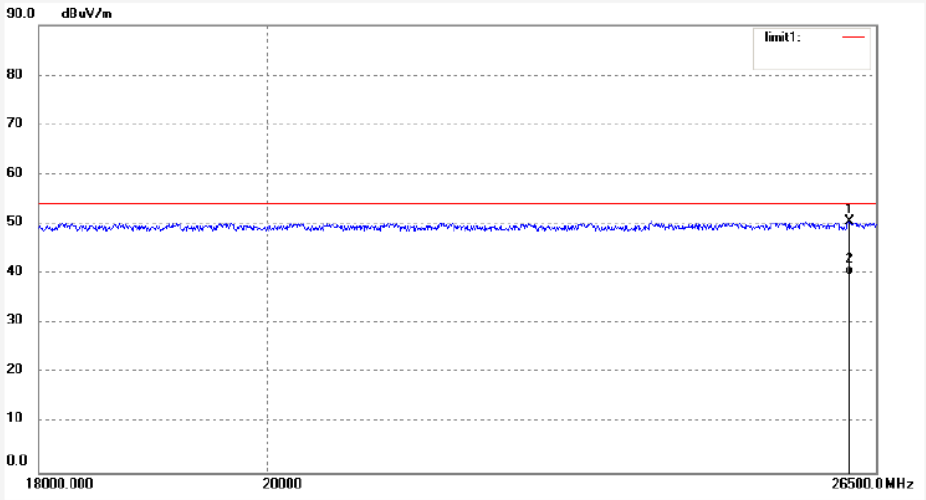
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2951	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26174.038	33.97	16.50	50.47	74.00	-23.53	peak			
2	26174.038	23.31	16.50	39.81	54.00	-14.19	AVG			

Figure 16: Test figure of spurious emissions, mode A.2, Vertical polarity (18GHz – 25GHz)

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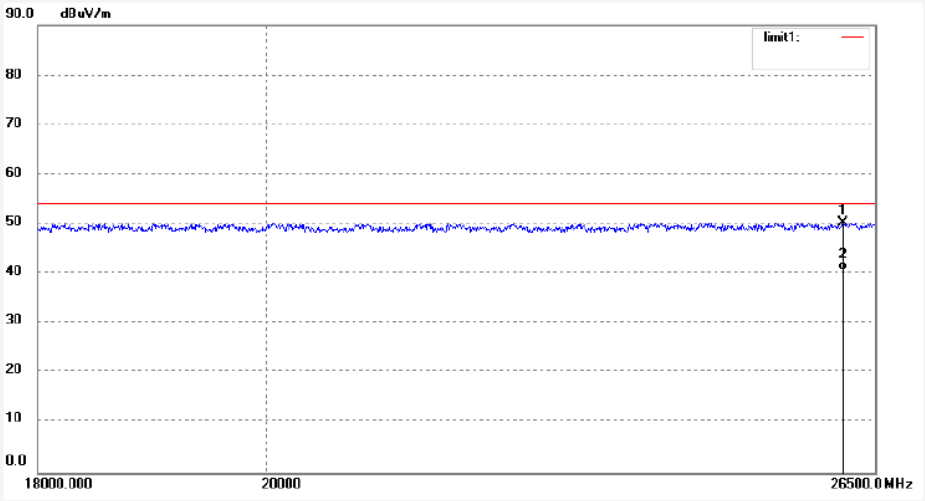
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2950	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2442MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26113.368	33.05	17.16	50.21	74.00	-23.79	peak			
2	26113.368	23.56	17.16	40.72	54.00	-13.28	AVG			

Figure 17: Test figure of spurious emissions, mode A.3, Horizontal polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT:	ARB Monitor M/N:10900026
Manufacturer:	Mobicool
Operating Condition:	TX 2449MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 3.7V
Comment:	X

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

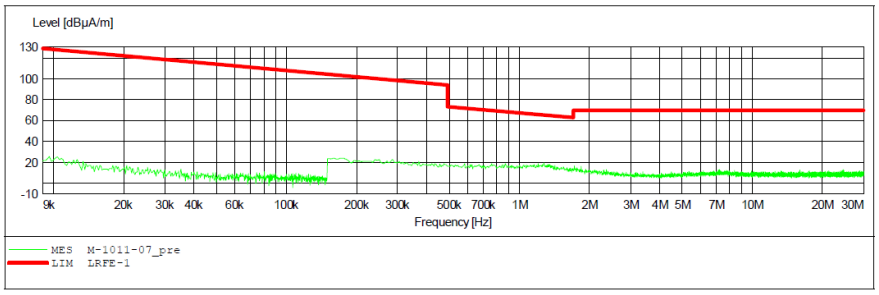


Figure 18: Test figure of spurious emissions, mode A.3, Vertical polarity (9kHz – 30MHz)

ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3m Radiated

EUT:	ARB Monitor M/N:10900026
Manufacturer:	Mobicool
Operating Condition:	TX 2449MHz
Test Site:	2# Chamber
Operator:	LGWADE
Test Specification:	DC 3.7V
Comment:	Y

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

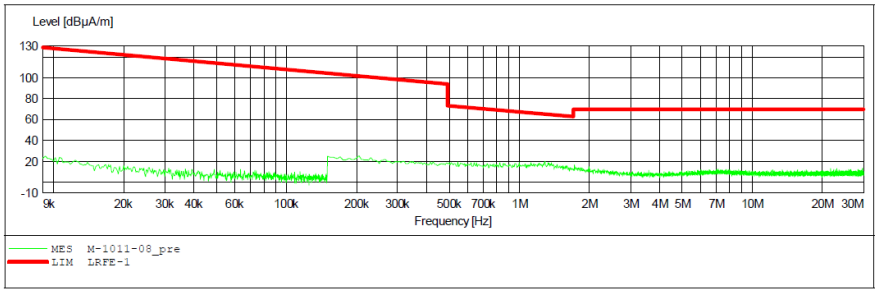


Figure 19: Test figure of spurious emissions, mode A.3, Horizontal polarity (30MHz – 1GHz)

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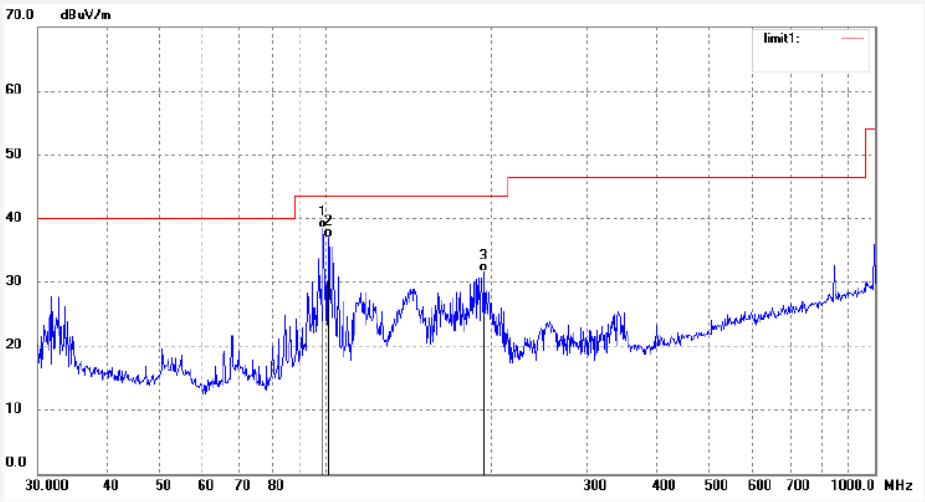
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: tuv2015 #3814	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.1796	52.81	-14.40	38.41	43.50	-5.09	QP			
2	101.2883	51.30	-14.33	36.97	43.50	-6.53	QP			
3	194.4533	45.12	-13.49	31.63	43.50	-11.87	QP			

Figure 20: Test figure of spurious emissions, mode A.3, Vertical polarity (30MHz – 1GHz)

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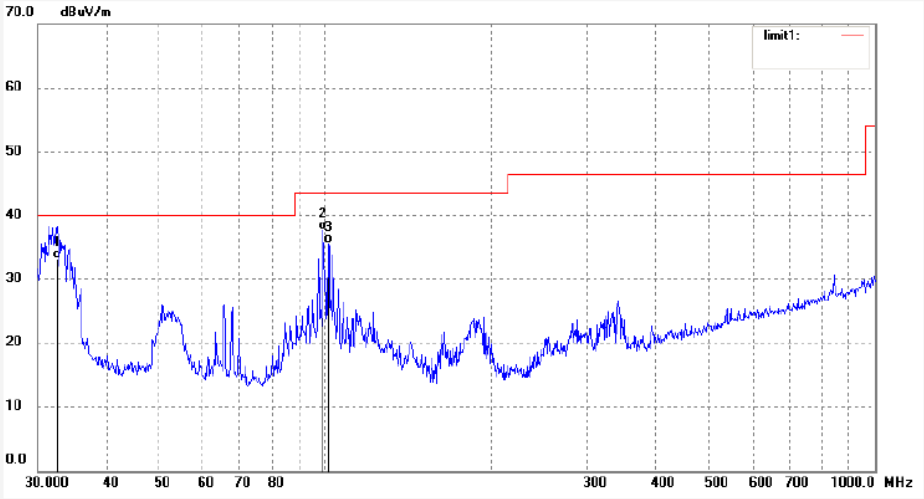
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: tuv2015 #3815	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	32.5197	42.88	-9.68	33.20	40.00	-6.80	QP			
2	99.1796	52.09	-14.40	37.69	43.50	-5.81	QP			
3	101.2883	50.00	-14.33	35.67	43.50	-7.83	QP			

Figure 21: Test figure of spurious emissions, mode A.3, Horizontal polarity (1GHz –18GHz)

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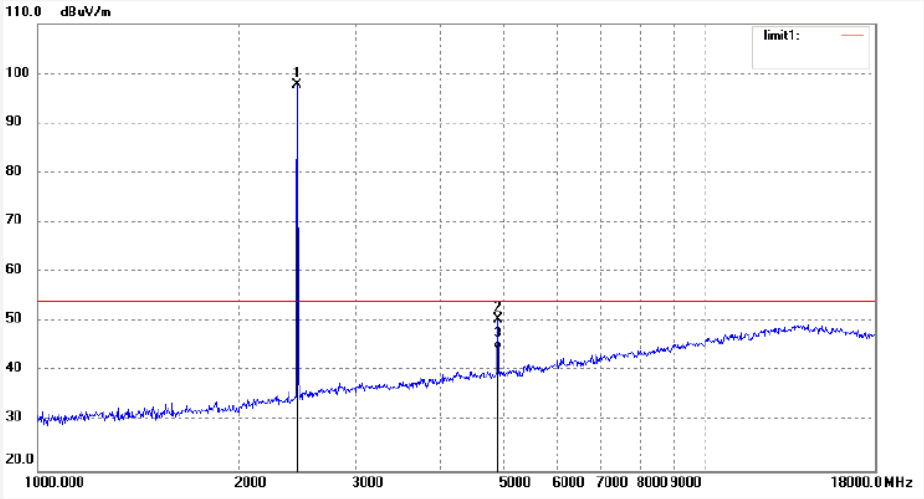
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2943	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2449.000	105.00	-7.33	97.67	/	/	peak			
2	4898.033	50.25	0.22	50.47	74.00	-23.53	peak			
3	4898.033	44.15	0.22	44.37	54.00	-9.63	AVG			

Figure 22: Test figure of spurious emissions, mode A.3, Vertical polarity (1GHz – 18GHz)

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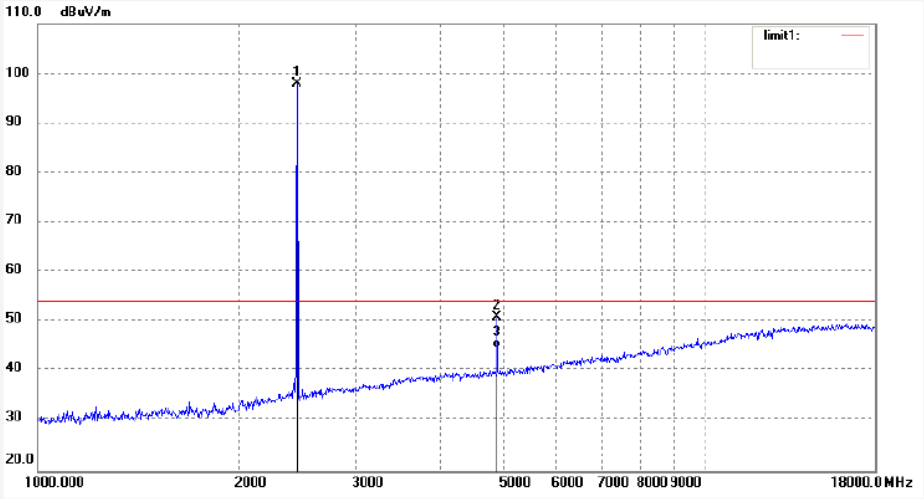
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2942	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2449.000	105.21	-7.33	97.88	/	/	peak			
2	4898.024	50.62	0.22	50.84	74.00	-23.16	peak			
3	4898.024	44.45	0.22	44.67	54.00	-9.33	AVG			

Figure 23: Test figure of spurious emissions, mode A.3, Horizontal polarity (18GHz –25GHz)

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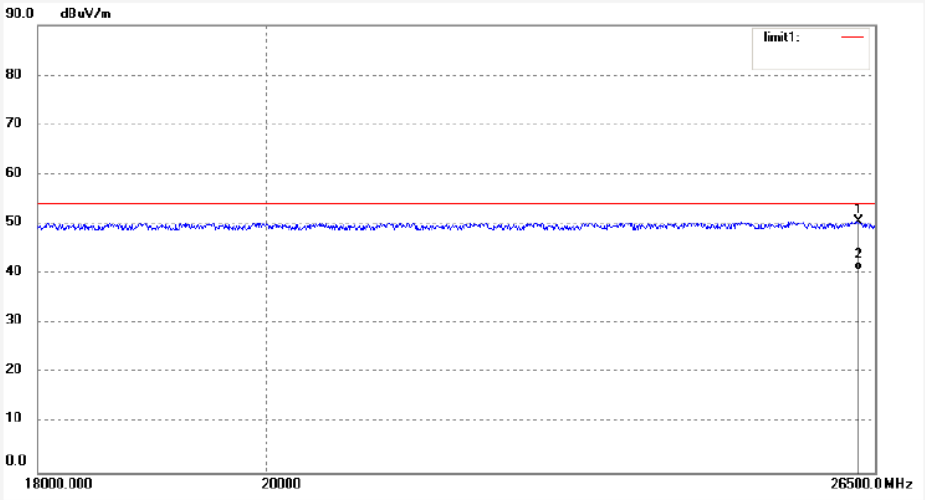
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2952	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26295.801	34.04	16.50	50.54	74.00	-23.46	peak			
2	26295.801	24.06	16.50	40.56	54.00	-13.44	AVG			

Figure 24: Test figure of spurious emissions, mode A.3, Vertical polarity (18GHz – 25GHz)

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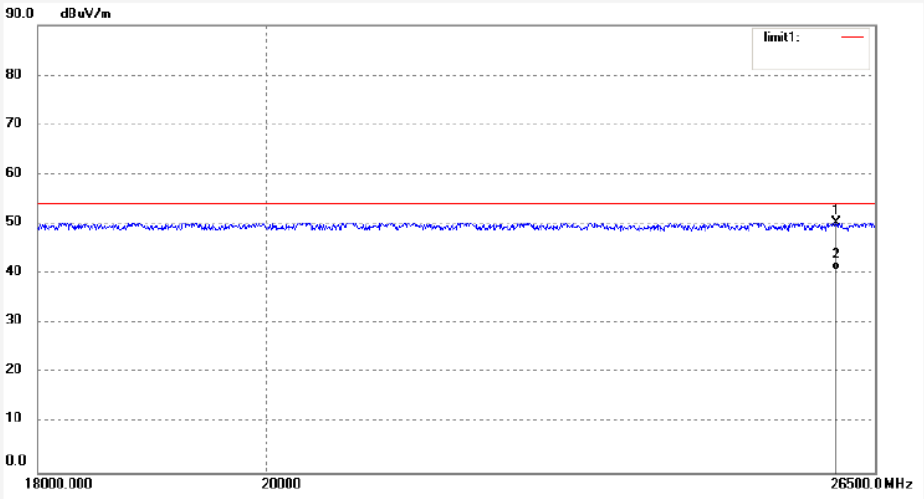
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2953	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26032.693	33.06	17.21	50.27	74.00	-23.73	peak			
2	26032.693	23.31	17.21	40.52	54.00	-13.48	AVG			

Figure 25: Test figure of Radiated emissions in restricted bands, Mode A.1, Horizontal

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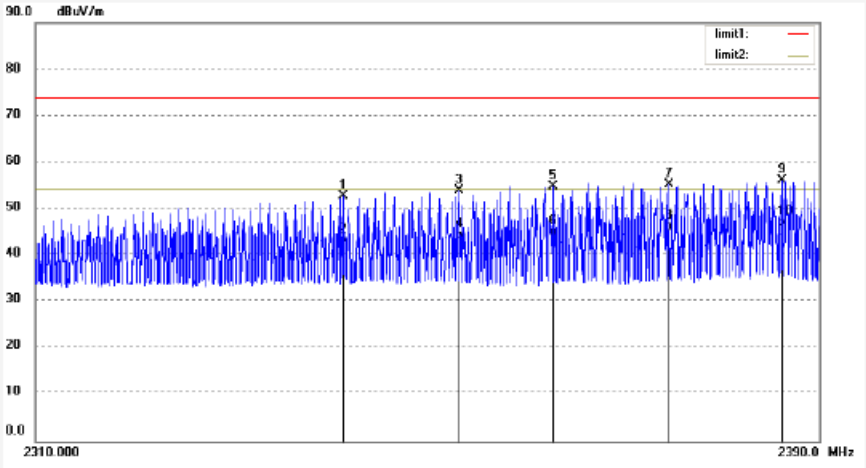
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #2944	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2341.040	60.58	-7.79	52.79	74.00	-21.21	peak			
2	2341.040	50.13	-7.79	42.34	54.00	-11.66	AVG			
3	2352.880	61.60	-7.77	53.83	74.00	-20.17	peak			
4	2352.880	51.34	-7.77	43.57	54.00	-10.43	AVG			
5	2362.640	62.49	-7.71	54.78	74.00	-19.22	peak			
6	2362.640	51.93	-7.71	44.22	54.00	-9.78	AVG			
7	2374.480	62.93	-7.63	55.30	74.00	-18.70	peak			
8	2374.480	52.96	-7.63	45.33	54.00	-8.67	AVG			
9	2386.240	63.62	-7.55	56.07	74.00	-17.93	peak			
10	2386.240	53.75	-7.55	46.20	54.00	-7.80	AVG			

Figure 26: Test figure of Radiated emissions in restricted bands, Mode A.1, Vertical

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Site: 2# Chamber
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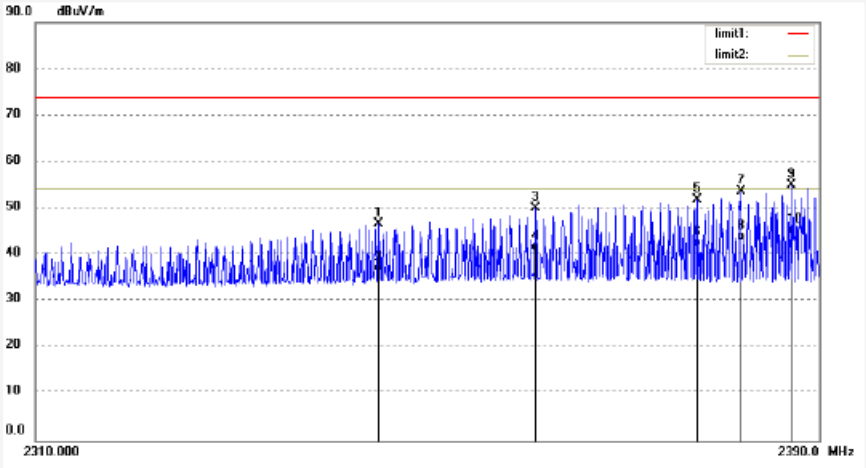
Job No.: LGW2015 #2945	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2435MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2344.720	54.59	-7.79	46.80	74.00	-27.20	peak			
2	2344.720	44.04	-7.79	36.25	54.00	-17.75	AVG			
3	2360.800	57.74	-7.72	50.02	74.00	-23.98	peak			
4	2360.800	48.50	-7.72	40.78	54.00	-13.22	AVG			
5	2377.440	59.41	-7.61	51.80	74.00	-22.20	peak			
6	2377.440	49.39	-7.61	41.78	54.00	-12.22	AVG			
7	2381.920	61.26	-7.58	53.68	74.00	-20.32	peak			
8	2381.920	50.68	-7.58	43.10	54.00	-10.90	AVG			
9	2387.200	62.45	-7.54	54.91	74.00	-19.09	peak			
10	2387.200	51.91	-7.54	44.37	54.00	-9.63	AVG			

Figure 27: Test figure of Radiated emissions in restricted bands, Mode A.3, Horizontal

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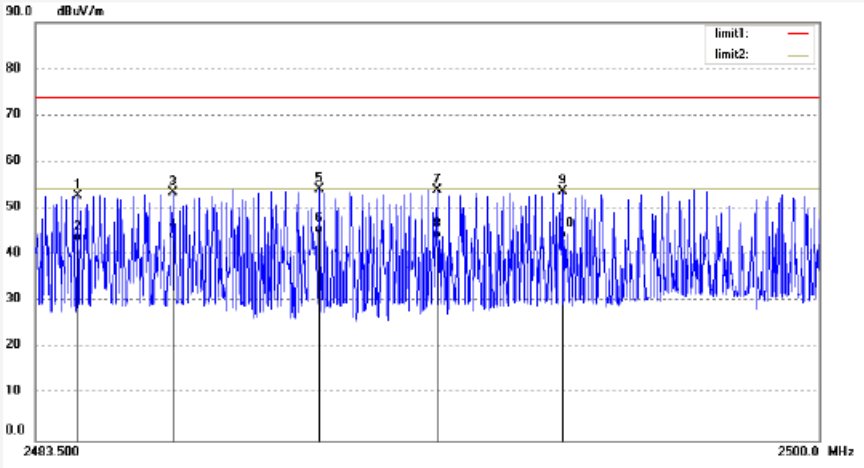
Fax:+86-0755-26503396

Job No.: LGW2015 #2947	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.391	60.24	-7.38	52.86	74.00	-21.14	peak			
2	2484.391	50.17	-7.38	42.79	54.00	-11.21	AVG			
3	2486.387	60.77	-7.39	53.38	74.00	-20.62	peak			
4	2486.387	50.74	-7.39	43.35	54.00	-10.65	AVG			
5	2489.473	61.47	-7.39	54.08	74.00	-19.92	peak			
6	2489.473	52.06	-7.39	44.67	54.00	-9.33	AVG			
7	2491.965	61.31	-7.39	53.92	74.00	-20.08	peak			
8	2491.965	50.94	-7.39	43.55	54.00	-10.45	AVG			
9	2494.604	61.03	-7.39	53.64	74.00	-20.36	peak			
10	2494.604	51.04	-7.39	43.65	54.00	-10.35	AVG			

Figure 28: Test figure of Radiated emissions in restricted bands, Mode A.3, Vertical

ACCURATE TECHNOLOGY CO., LTD.
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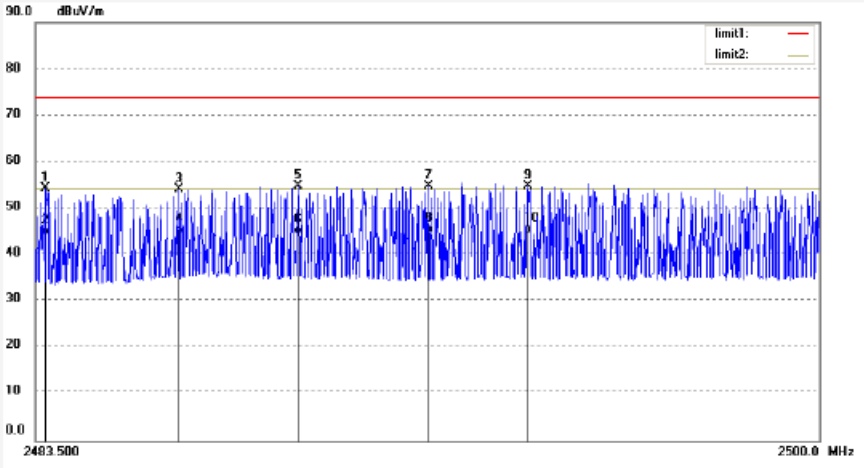
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LGW2015 #2946	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 16/09/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: ARB Monitor	Engineer Signature: LGWADE
Mode: TX 2449MHz	Distance: 3m
Model: 10900026	
Manufacturer: Mobicool	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.715	61.74	-7.37	54.37	74.00	-19.63	peak			
2	2483.715	51.54	-7.37	44.17	54.00	-9.83	AVG			
3	2486.519	61.40	-7.39	54.01	74.00	-19.99	peak			
4	2486.519	51.74	-7.39	44.35	54.00	-9.65	AVG			
5	2489.028	62.12	-7.39	54.73	74.00	-19.27	peak			
6	2489.028	51.74	-7.39	44.35	54.00	-9.65	AVG			
7	2491.783	62.18	-7.39	54.79	74.00	-19.21	peak			
8	2491.783	52.06	-7.39	44.67	54.00	-9.33	AVG			
9	2493.862	62.27	-7.40	54.87	74.00	-19.13	peak			
10	2493.862	52.10	-7.40	44.70	54.00	-9.30	AVG			

Figure 29: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.1

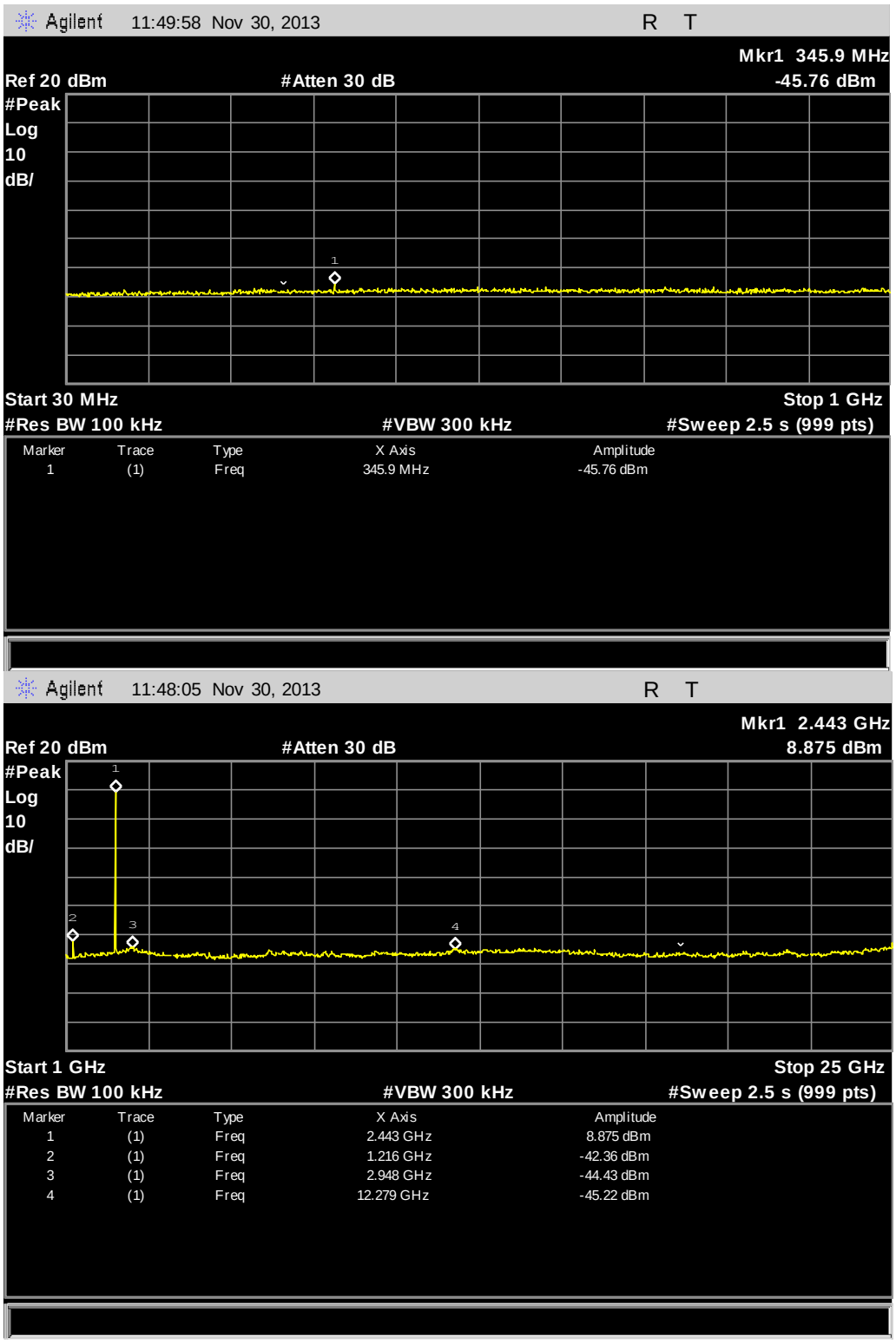


Figure 30: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.2

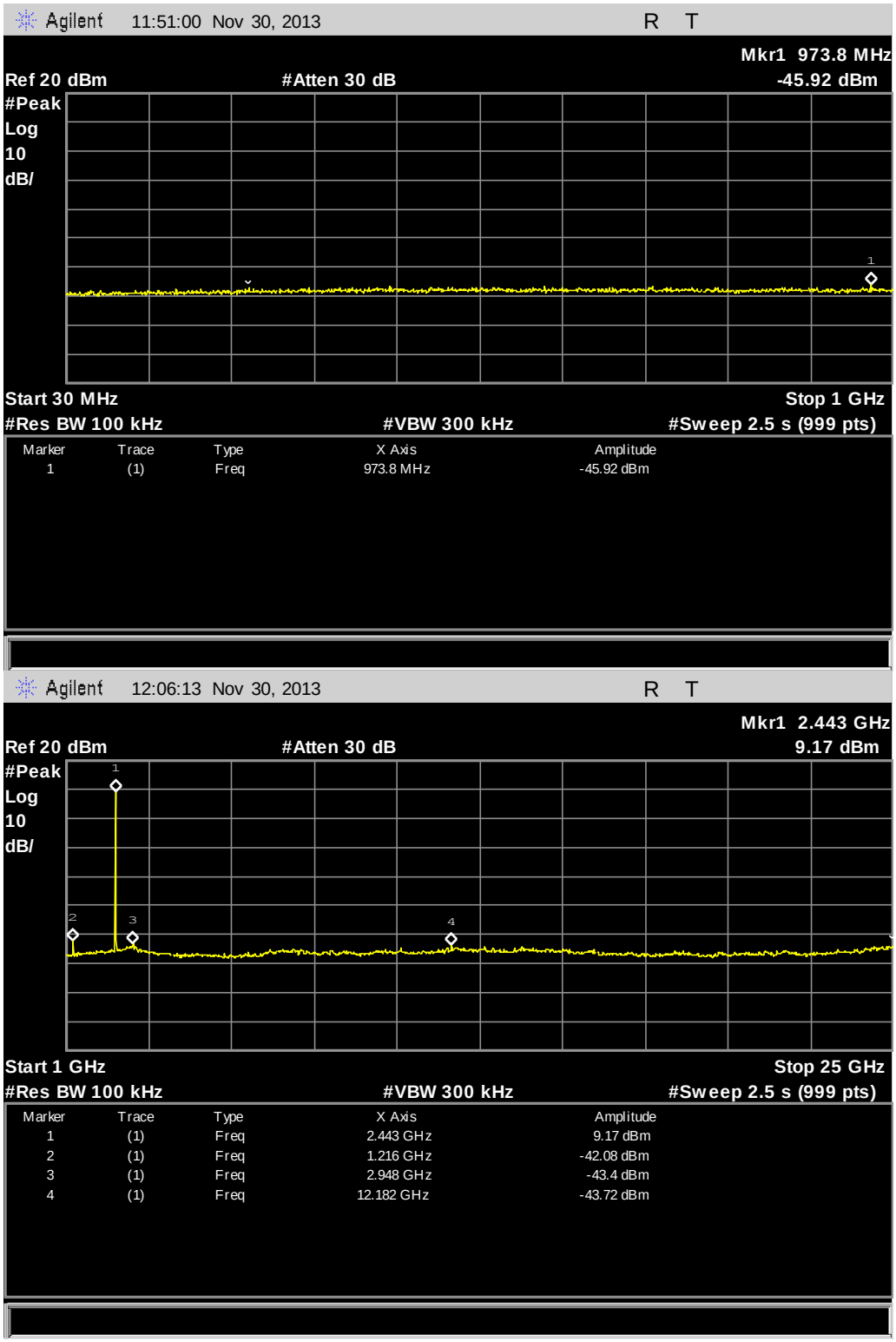


Figure 31: Test figure of conducted emissions in 100kHz Bandwidth, Mode A.3

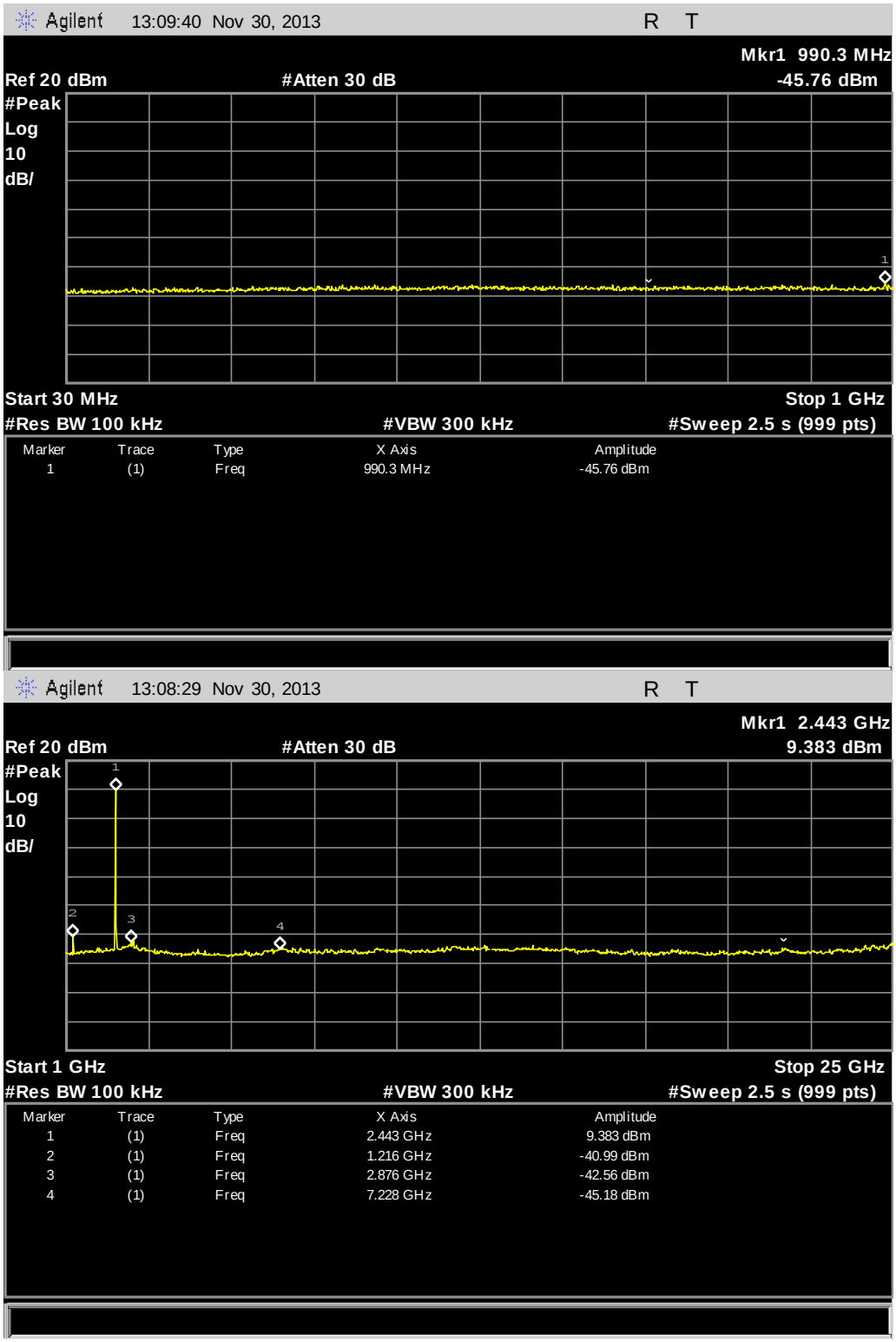
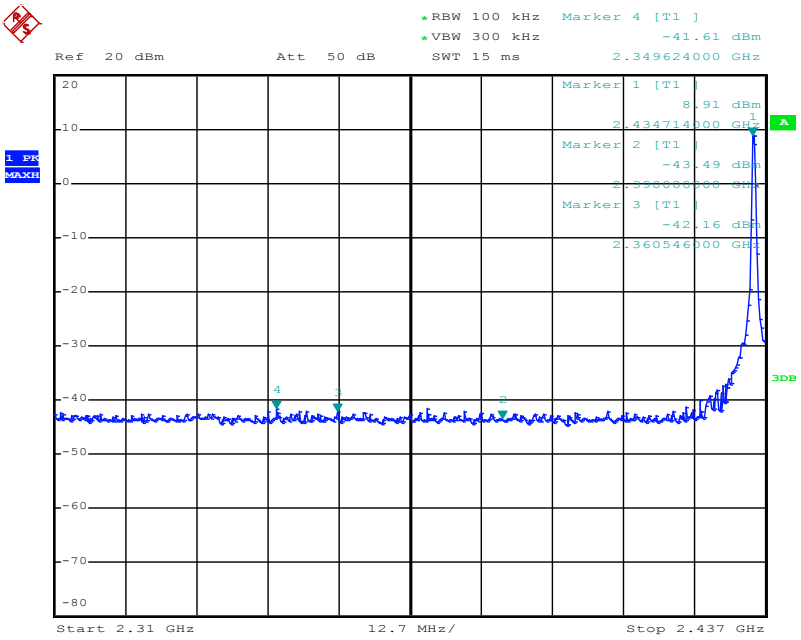
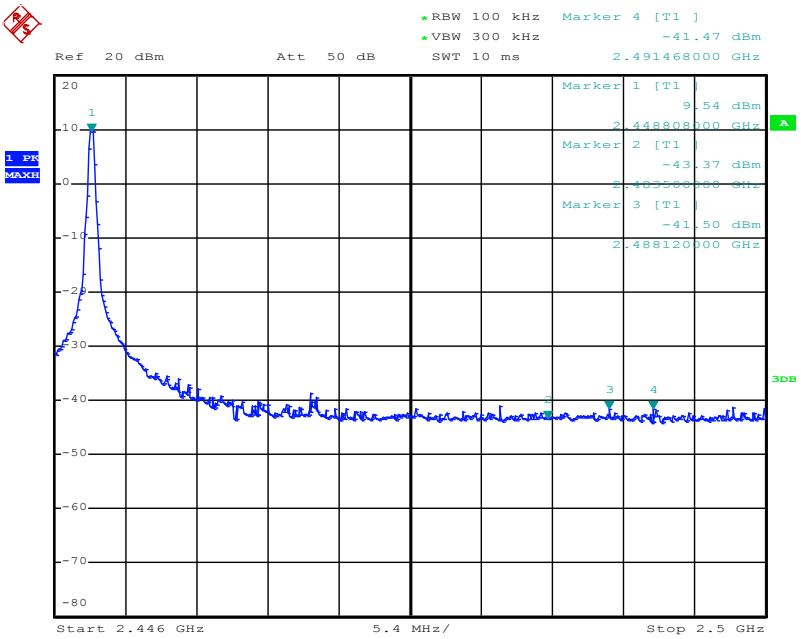


Figure 32: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.1



Date: 29.NOV.2013 08:46:01

Figure 33: Test figure of Frequency Band Edge in 100kHz Bandwidth, Mode A.3



Date: 29.NOV.2013 08:53:52

Figure 34: Test figure of Conducted emissions, Mode C, line live

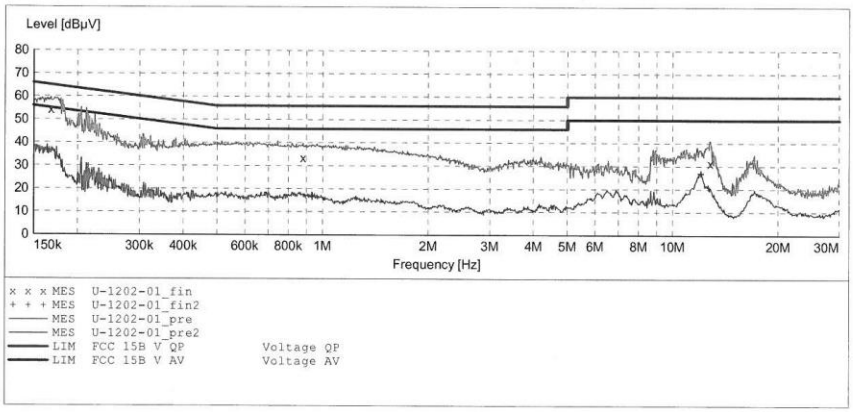
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

```
EUT:
Manufacturer:          Mobicool
Operating Condition:   Transmitting
Test Site:             1#Shielding Room
Operator:              LAN
Test Specification:    L 120V/60Hz
Comment:               Mains Port
Start of Test:         30/6/2016 / 11:47:18AM
```

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-1202-01_fin"

30/6/2016 11:49AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.167739	54.30	10.5	65	10.8	QP	L1	GND
0.879278	33.40	10.8	56	22.6	QP	L1	GND
12.806998	31.40	11.3	60	28.6	QP	L1	GND

MEASUREMENT RESULT: "U-1202-01_fin2"

30/6/2016 11:49AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.163769	36.50	10.5	55	18.8	AV	L1	GND
0.933537	16.40	10.8	46	29.6	AV	L1	GND
12.014561	26.80	11.3	50	23.2	AV	L1	GND

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Figure 35: Test figure of Conducted emissions, Mode C, line neutral

ACCURATE TECHNOLOGY CO.,LTD

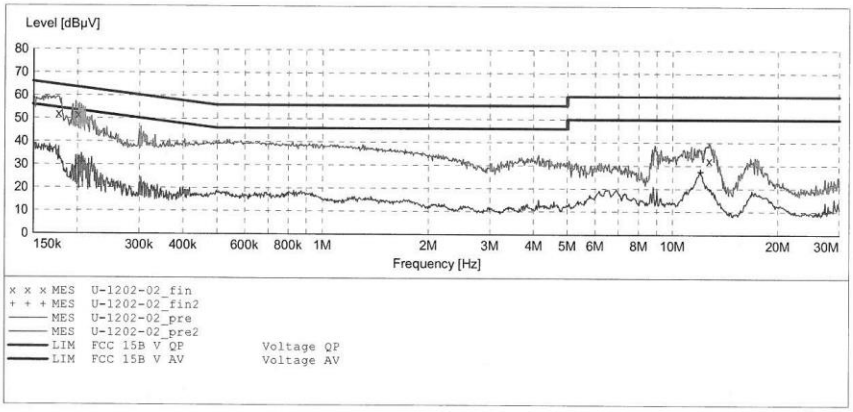
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT:
Manufacturer: Mobicool
Operating Condition: Transmitting
Test Site: 1#Shielding Room
Operator: LAN
Test Specification: N 120V/60Hz
Comment: Mains Port
Start of Test: 30/6/2016 / 11:50:31AM

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

Short Description: _SUB_STD_VTERM2 1.70

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



MEASUREMENT RESULT: "U-1202-02_fin"

30/6/2016 11:52AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.176674	52.10	10.5	65	12.5	QP	N	GND
0.200748	51.70	10.5	64	11.9	QP	N	GND
12.705153	32.30	11.3	60	27.7	QP	N	GND

MEASUREMENT RESULT: "U-1202-02_fin2"

30/6/2016 11:52AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.166406	36.20	10.5	55	18.9	AV	N	GND
0.204796	31.00	10.5	53	22.4	AV	N	GND
12.014561	27.30	11.3	50	22.7	AV	N	GND

Page 1/1 30/6/2016 11:52AM U-1202-02