

Prüfbericht-Nr.: Test Report No.:	50089031 001	Auftrags-Nr.: Order No.:	164088832	Seite 1 von 71 Page 1 of 71		
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	23.03.2017			
Auftraggeber: Client:	limoss (Shenzhen) Co., Ltd. 1/F & South Wing, 2/F of Block A and North Wing, 1/F of Block E, Hourui 3rd Ind. Park, Xixiang, Bao'an, Shenzhen, Guangdong 518102, P.R. China					
Prüfgegenstand: Test item:	Wireless Receiver					
Bezeichnung / Typ-Nr.: Identification / Type No.:	MC251 (limoss)					
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 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-210 Issue 9 August 2016 ICES-003 Issue 6 January 2016	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart B Section 15.107 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014 RSS-102 Issue 5 March 2015				
Wareneingangsdatum: Date of receipt:	23.03.2017					
Prüfmuster-Nr.: Test sample No.:	1700951, 1700952					
Prüfzeitraum: Testing period:	29.03.2017 - 08.06.2017					
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: 30.06.2017 Alex Lan/Project Engineer	kontrolliert von / reviewed by: 30.06.2017 Owen Tian/Technical Certicier					
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position	Unterschrift Signature	
Sonstiges / Other:	FCC ID: 2AH9H-MC251 IC: 21543-MC251					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged					
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n)	1 = sehr gut	2 = gut	3 = befriedigend	F(all) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend	5 = mangelhaft
Legend: P(ass) = passed a.m. test specification(s)	1 = very good	2 = good	3 = satisfactory	F(all) = failed a.m. test specification(s)	4 = sufficient	5 = poor
N/A = nicht anwendbar N/T = nicht getestet N/A = not applicable N/T = not tested						
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.						

Prüfbericht - Nr.: **50089031 001**
Test Report No.

Seite 2 von 71
Page 2 of 71

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

5.1.4 RADIATED EMISSIONS OUTSIDE OF THE BAND

RESULT: Pass

5.1.5 CONDUCTED EMISSIONS

RESULT: Pass

5.1.6 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

Contents

1. GENERAL REMARKS	4
1.1 COMPLEMENTARY MATERIALS	4
2. TEST SITES	4
2.1 TEST FACILITIES	4
2.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3 TRACEABILITY	6
2.4 CALIBRATION	6
2.5 MEASUREMENT UNCERTAINTY.....	6
2.6 LOCATION OF ORIGINAL DATA.....	6
2.7 STATUS OF FACILITY USED FOR TESTING.....	6
3. GENERAL PRODUCT INFORMATION	7
3.1 PRODUCT FUNCTION AND INTENDED USE.....	7
3.2 RATINGS AND SYSTEM DETAILS	7
3.3 INDEPENDENT OPERATION MODES	7
3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
3.5 SUBMITTED DOCUMENTS	8
4. TEST SET-UP AND OPERATION MODES	9
4.1 PRINCIPLE OF CONFIGURATION SELECTION.....	9
4.2 TEST OPERATION AND TEST SOFTWARE	9
4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	9
4.5 TEST SETUP DIAGRAM	10
5. TEST RESULTS	12
5.1 TRANSMITTER REQUIREMENT & TEST SUITES	12
5.1.1 Antenna Requirement	12
5.1.2 20dB Bandwidth and 99% Bandwidth.....	13
5.1.3 Fundamental & Harmonics Radiated Emission	18
5.1.4 Radiated emissions outside of the band	25
5.1.5 Conducted emissions.....	57
5.1.6 Radiated Emission	62
6. SAFETY HUMAN EXPOSURE	67
6.1 RADIO FREQUENCY EXPOSURE COMPLIANCE.....	67
6.1.1 Electromagnetic Fields.....	67
7. PHOTOGRAPHS OF THE TEST SET-UP	68
8. LIST OF TABLES	71
9. LIST OF PHOTOGRAPHS	71

Prüfbericht - Nr.: 50089031 001
Test Report No.

Seite 4 von 71
Page 4 of 71

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	2018-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2018-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2018-01-09
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2018-01-09
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2018-01-09
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2018-01-06
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2018-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2018-01-06
RF Coaxial Cable	SUHNER	N-3m	No.8	2018-01-06
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2018-01-06
RF Coaxial Cable	SUHNER	N-6m	No.10	2018-01-06
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2018-01-06
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2018-01-06
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2018-01-06
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2018-01-06
Signal Generator	Rohde & Schwarz	SMB100A	108362	2018-01-06
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2018-01-06
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2018-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2018-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2018-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2018-01-06
Voltage Probe	Schwarzbeck	TK9416	N/A	2018-01-06
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2018-01-06
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.2	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.3	2018-01-06
RF Coaxial Cable	Suhner	N-2m	No.14	2018-01-06

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	< ± 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 receiver box of cinema control system, which used for cinema seats mass open and close, it operates at 2.4GHz ISM 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	Wireless Receiver
Type Designation	MC251
FCC ID	2AH9H-MC251
IC	21543-MC251
HVIN	MC251
Operating Frequency Band	2400MHz ~ 2483.5MHz
Operating Frequency	2422.999MHz, 2448.393MHz, 2473.987MHz
Number of Channel	3
Extreme Temperature Range	0~+40°C
Operation Voltage	DC 30V
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, wireless mode
 - 1. Transmitting
 - 2. Receiving
- B. On, wire control mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

Prüfbericht - Nr.: 50089031 001
Test Report No.

Seite 8 von 71
Page 8 of 71

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.	Rating
AC/DC adapter	limoss	MC115L-70-US	Input: AC 100-240V, 50/60Hz; 0.7-1.6A; Output: DC 29V, 2.0A
Motor Actuator	limoss	MD120-01-L1-390-199	Input: DC 18-35V, 5A

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

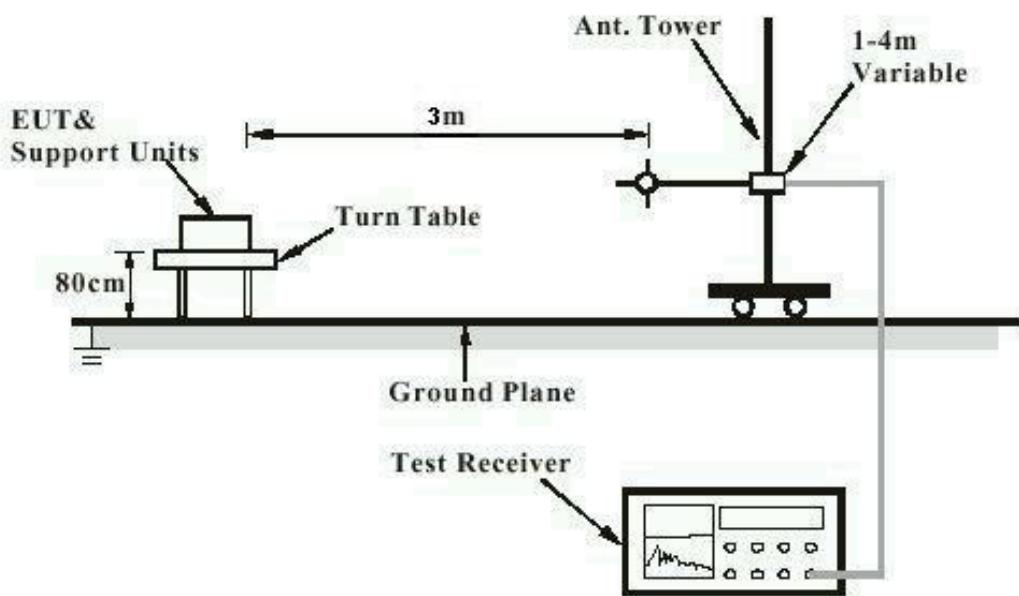
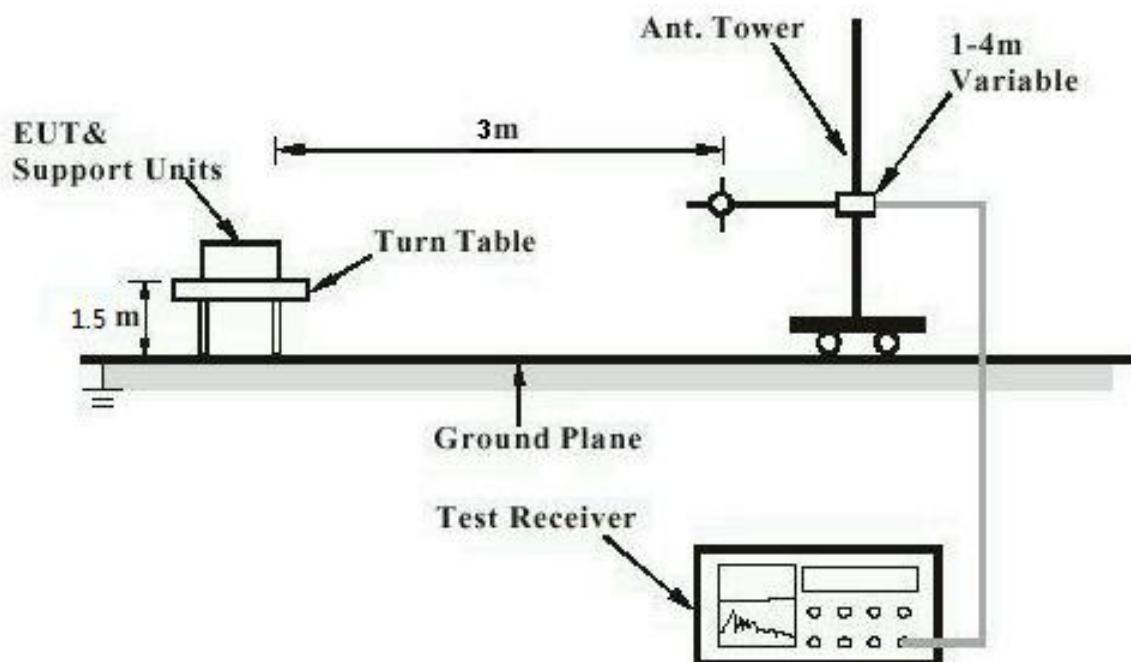


Diagram of Measurement Configuration for Radiation Test for above 1GHz



Prüfbericht - Nr.: **50089031 001**
Test Report No.

Seite 11 von 71
Page 11 of 71

Diagram of Measurement Equipment Configuration for Transmitter Measurement

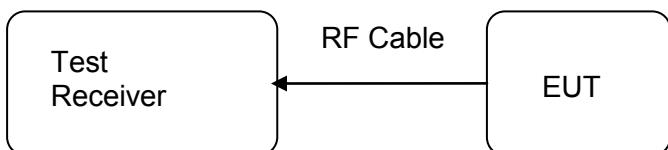
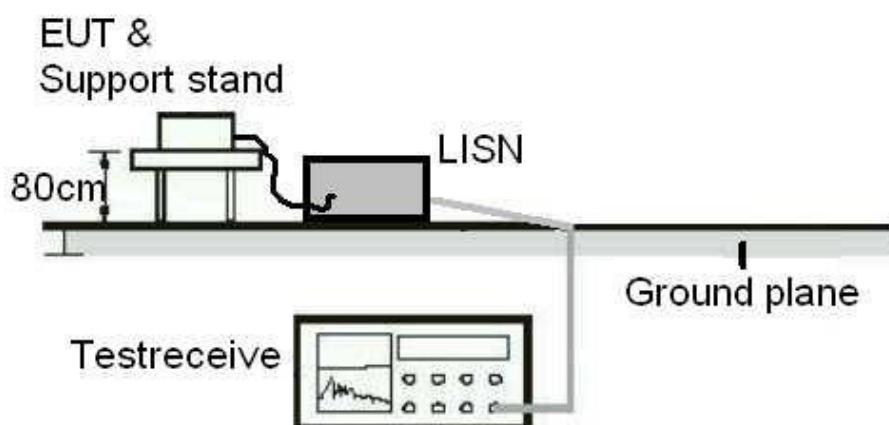


Diagram of Measurement Equipment Configuration for Conduction Measurement



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 -3.4dBi, therefore the EUT is considered sufficient to comply with the provision.

Prüfbericht - Nr.: 50089031 001
*Test Report No.*Seite 13 von 71
Page 13 of 71**5.1.2 20dB Bandwidth and 99% Bandwidth****RESULT:****Pass**

Date of testing	:	2017-06-06
Test standard	:	FCC Part 15.215 (c) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded room

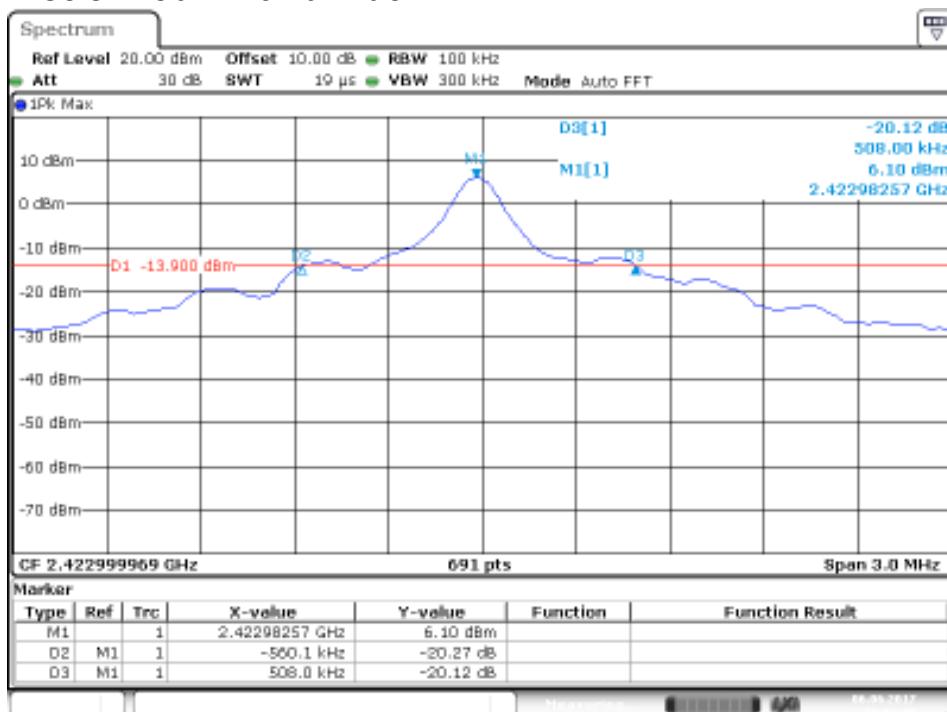
Test setup

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

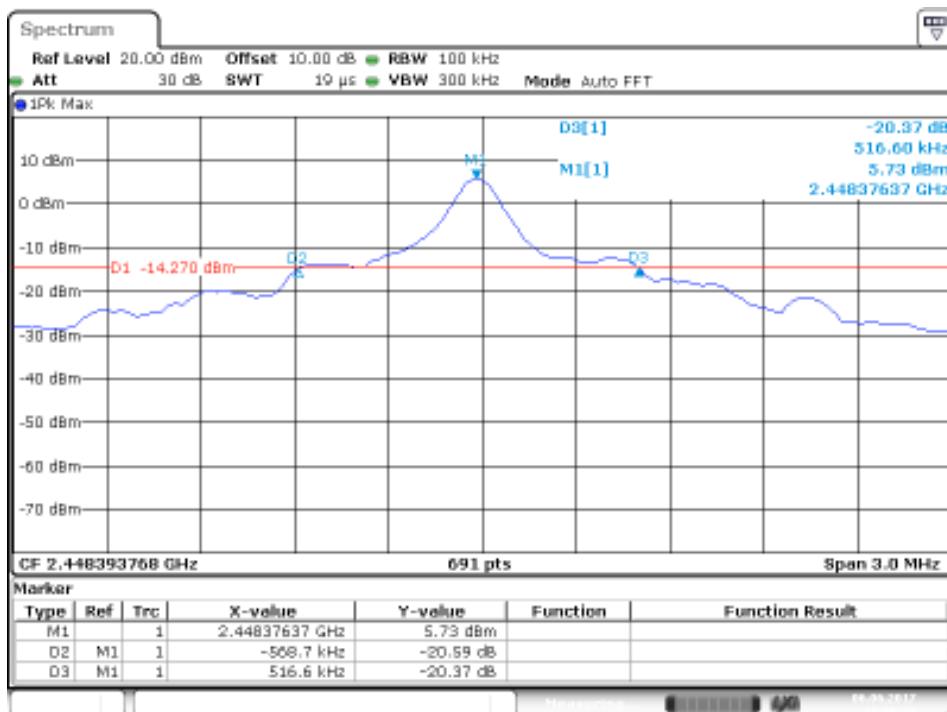
Table 4: Test result of 20dB & 99% Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	1.068	1.520
Mid Channel	2448.393	1.085	1.480
High Channel	2473.987	1.064	1.467

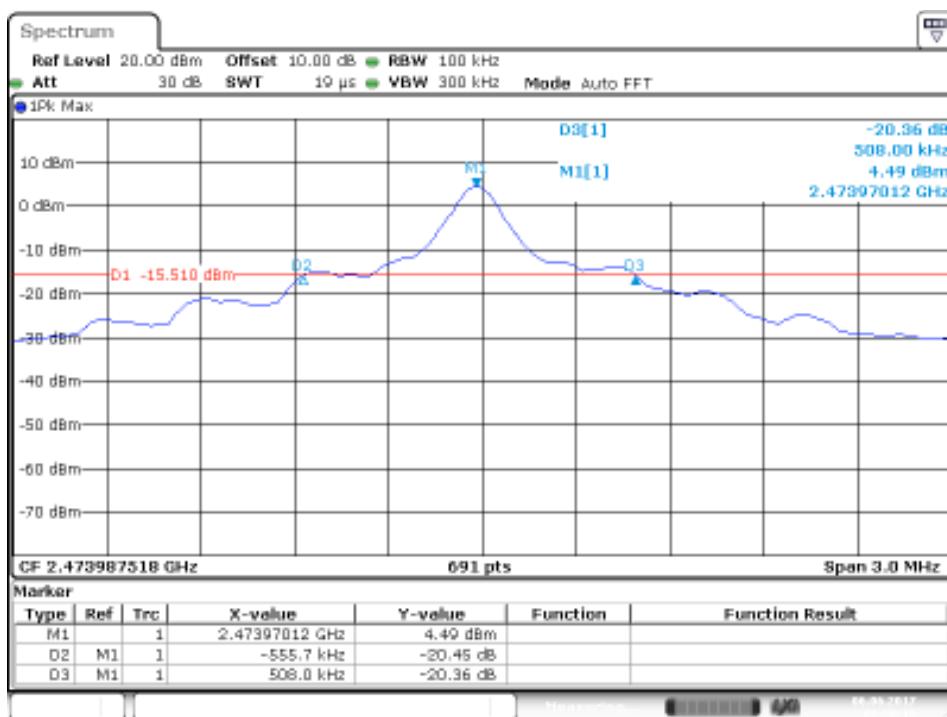
For details refer to following test plot.

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 14 von 71
Page 14 of 71
Test Plot of 20dB Bandwidth


Date: 6.JUN.2017 10:02:28



Date: 6.JUN.2017 10:00:44

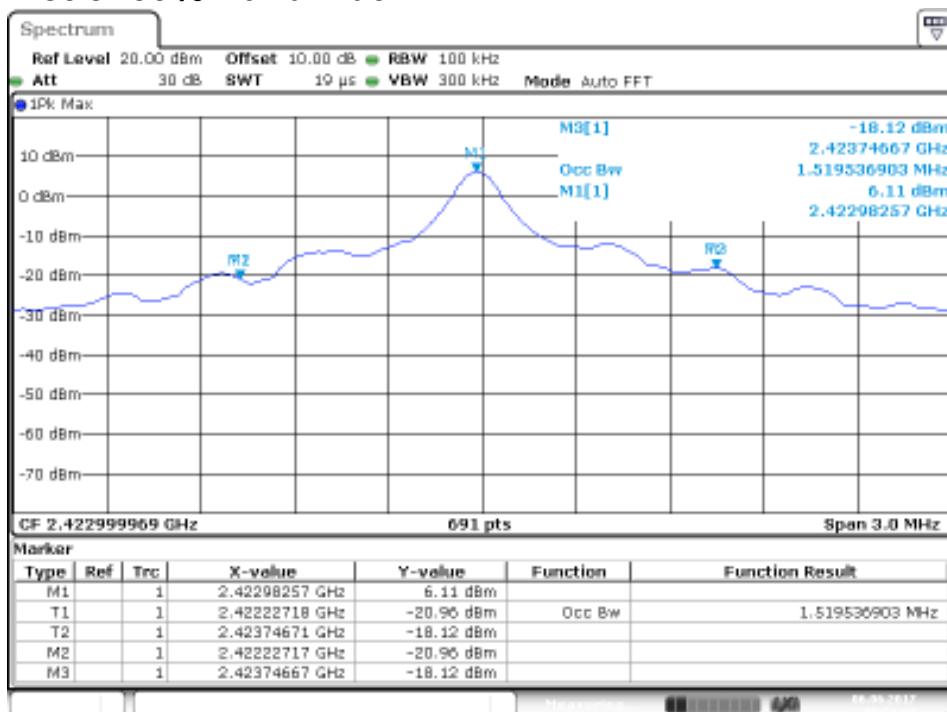
Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 15 von 71
Page 15 of 71


Prüfbericht - Nr.: 50089031 001

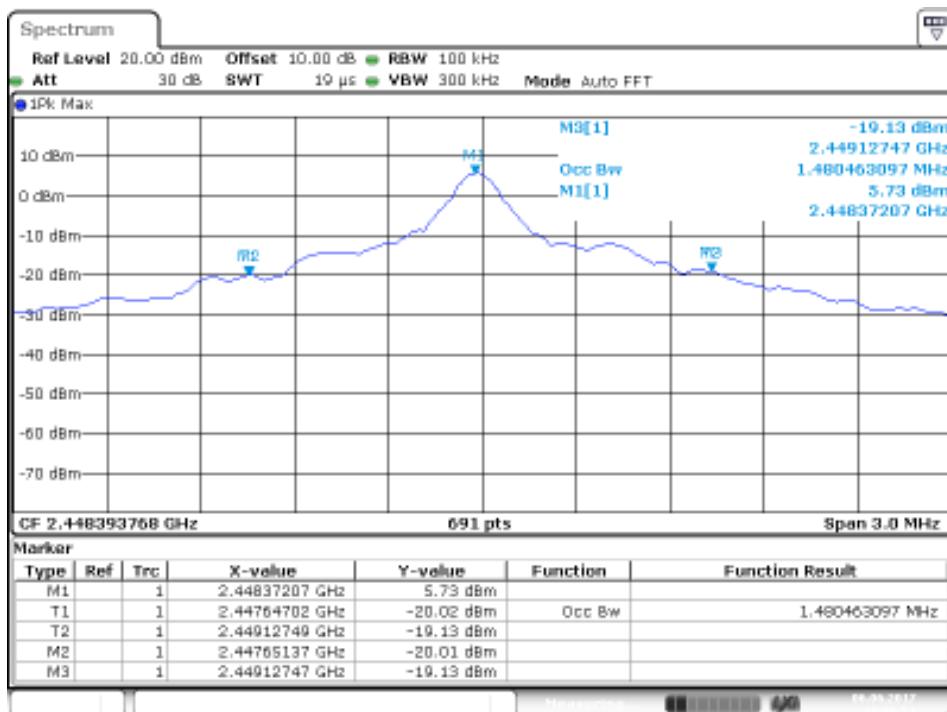
Test Report No.

Seite 16 von 71
Page 16 of 71

Test Plot of 99% Bandwidth



Date: 6.JUN.2017 09:51:43

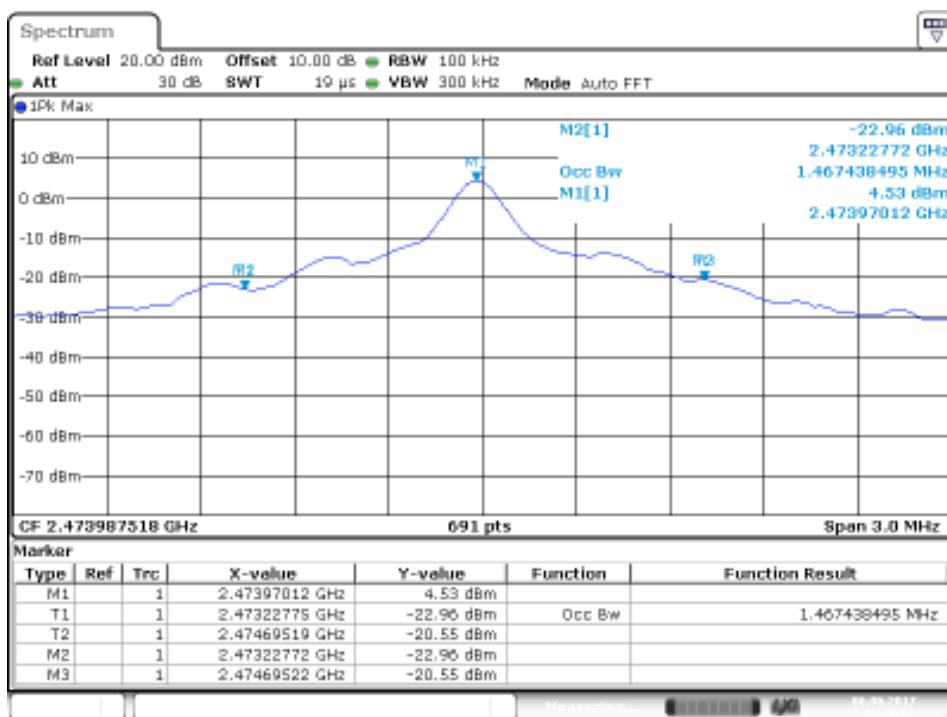


Date: 6.JUN.2017 10:06:51

Prüfbericht - Nr.: 50089031 001

Test Report No.

Seite 17 von 71
Page 17 of 71



5.1.3 Fundamental & Harmonics Radiated Emission

RESULT:
Pass

Date of testing	:	2017-05-27
Test standard	:	FCC part 15.249(a) RSS-210 Clause B10(a)
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°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

**Table 5: Polarization of the measurement for the larger power level
channel 2473.987MHz: Horizontal**

Test conditions		Fundamental Frequency		Harmonic Frequency	
		2473.987MHz		4896.786	
T _{nom} (25°C)	Unit	(dB μ V/m)	(mV/m)	(dB μ V/m)	(μ V/m)
	Horizontal	89.42	29.580	42.14	127.938
	Vertical	89.13	28.609	41.24	115.345
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.

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 19 von 71
Page 19 of 71

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.: LGW2017 #2416

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

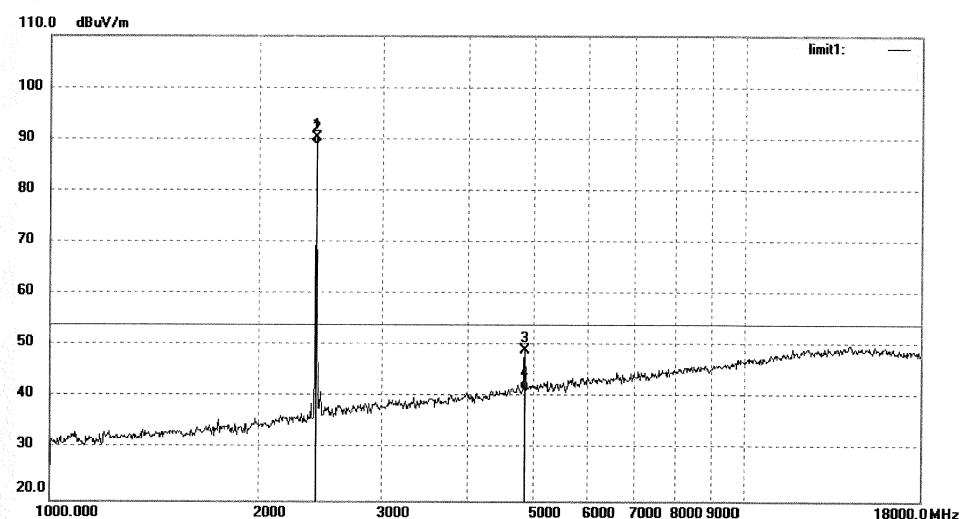
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	91.84	-1.52	90.32	114.00	-23.68	peak			
2	2422.999	90.54	-1.52	89.02	94.00	-4.98	AVG			
3	4846.001	43.81	5.28	49.09	74.00	-24.91	peak			
4	4846.001	36.19	5.28	41.47	54.00	-12.53	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 20 von 71
Page 20 of 71

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.: LGW2017 #2417

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

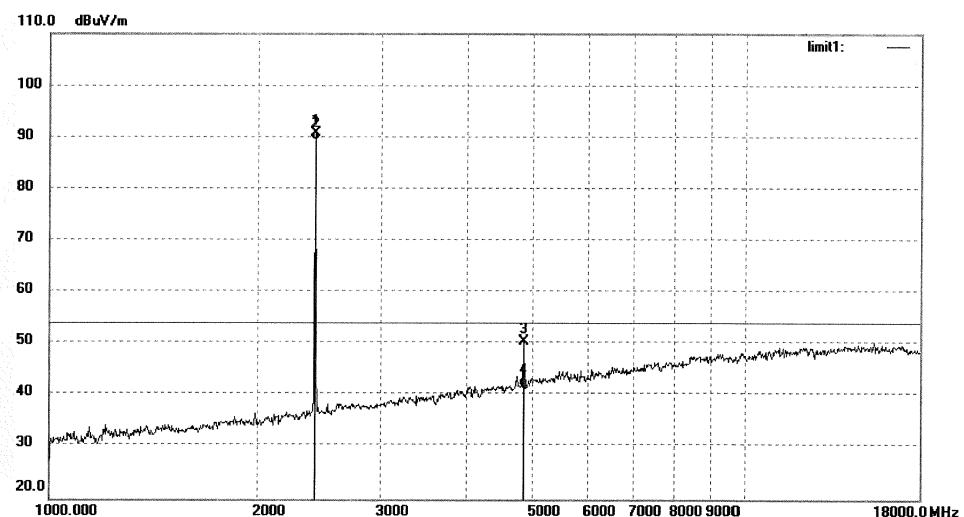
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	92.18	-1.52	90.66	114.00	-23.34	peak			
2	2422.999	90.88	-1.52	89.36	94.00	-4.64	AVG			
3	4843.997	45.16	5.28	50.44	74.00	-23.56	peak			
4	4843.997	36.36	5.28	41.64	54.00	-12.36	AVG			

Prüfbericht - Nr.: **50089031 001**
Test Report No.
Seite 21 von 71
Page 21 of 71

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.: LGW2017 #2420

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

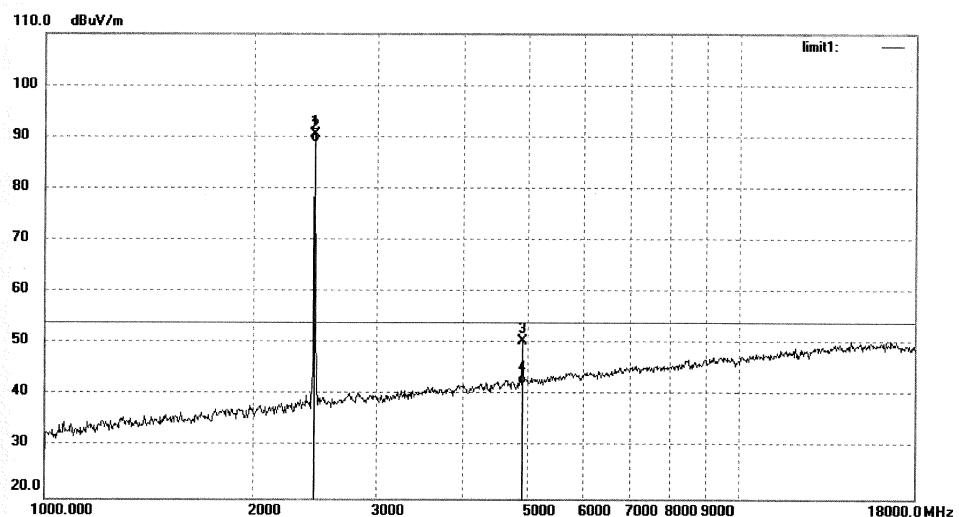
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	91.92	-1.42	90.50	114.00	-23.50	peak			
2	2448.393	90.42	-1.42	89.00	94.00	-5.00	AVG			
3	4896.786	44.70	5.74	50.44	74.00	-23.56	peak			
4	4896.786	36.40	5.74	42.14	54.00	-11.86	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 22 von 71
Page 22 of 71

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.: LGW2017 #2421

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

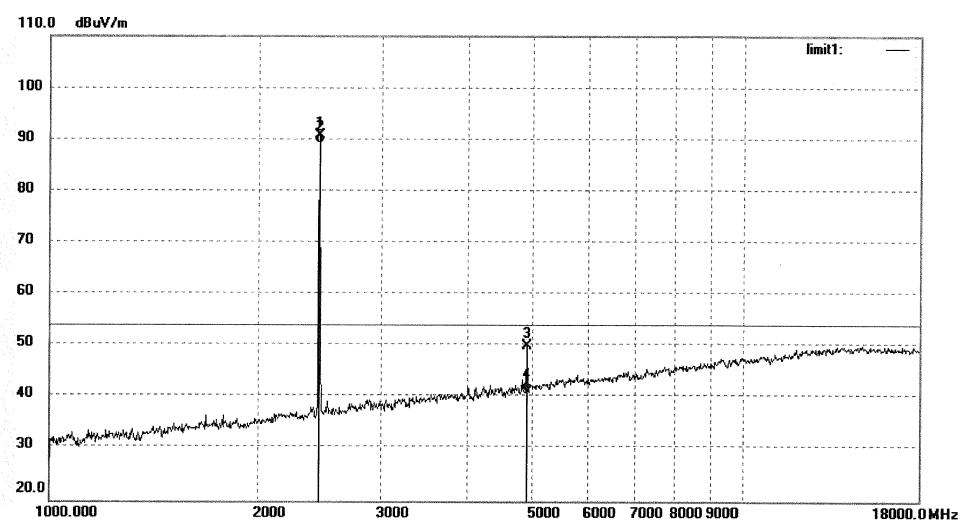
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	92.20	-1.42	90.78	114.00	-23.22	peak			
2	2448.393	90.70	-1.42	89.28	94.00	-4.72	AVG			
3	4896.794	44.37	5.74	50.11	74.00	-23.89	peak			
4	4896.794	35.50	5.74	41.24	54.00	-12.76	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 23 von 71
Page 23 of 71

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.: LGW2017 #2423

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

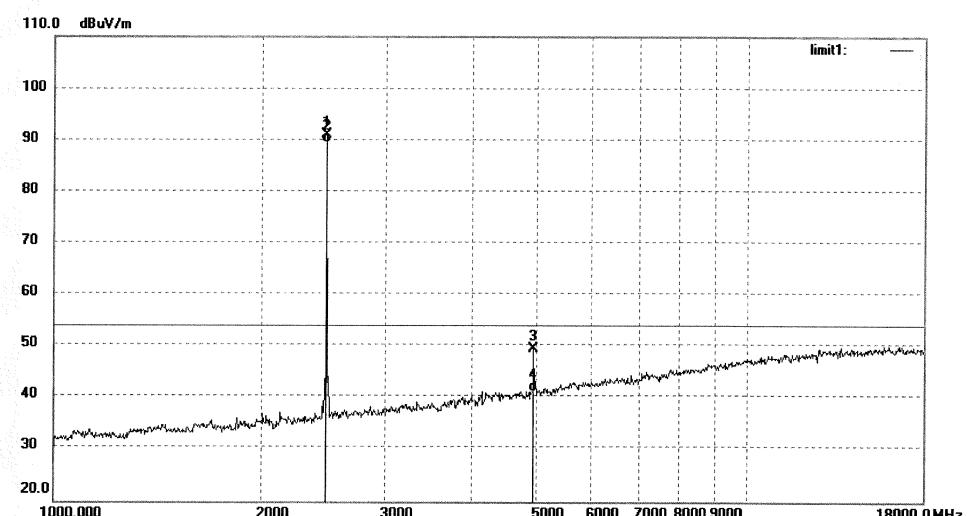
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	92.33	-1.41	90.92	114.00	-23.08	peak			
2	2473.987	90.83	-1.41	89.42	94.00	-4.58	AVG			
3	4948.012	43.55	6.03	49.58	74.00	-24.42	peak			
4	4948.012	35.21	6.03	41.24	54.00	-12.76	AVG			

Prüfbericht - Nr.: **50089031 001**
Test Report No.
Seite 24 von 71
Page 24 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

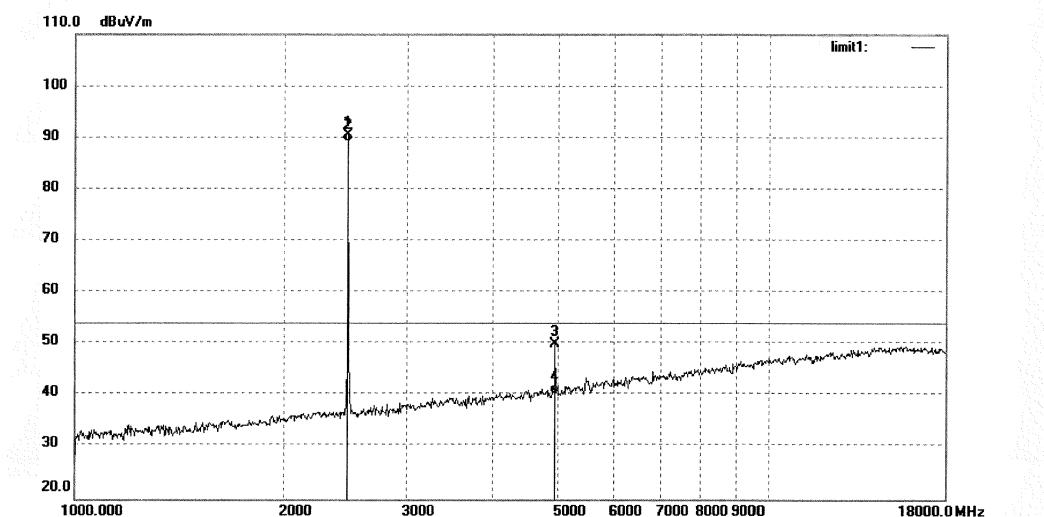
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2422	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2473.987518MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	92.04	-1.41	90.63	114.00	-23.37	peak			
2	2473.987	90.54	-1.41	89.13	94.00	-4.87	AVG			
3	4947.990	43.93	6.03	49.96	74.00	-24.04	peak			
4	4947.990	34.31	6.03	40.34	54.00	-13.66	AVG			

Prüfbericht - Nr.: 50089031 001
*Test Report No.*Seite 25 von 71
Page 25 of 71**5.1.4 Radiated emissions outside of the band****RESULT:****Pass**

Date of testing	:	2017-05-27 to 2017-06-08
Test standard	:	FCC Part 15.209(a) FCC Part 15.249(d) RSS-210 Clause B10(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°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

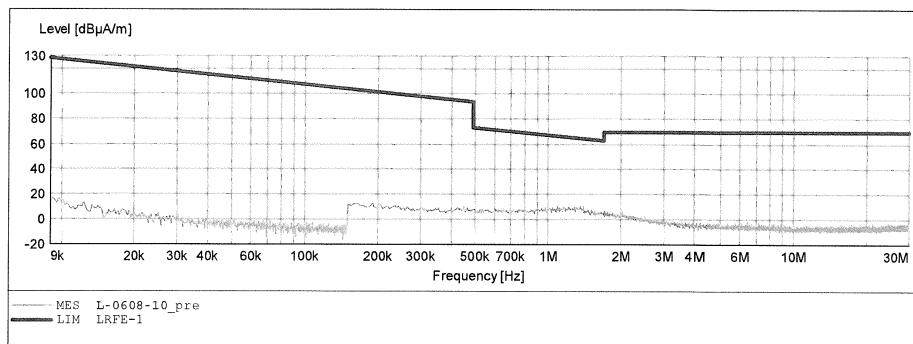
For details refer to following test plot.

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 26 von 71
Page 26 of 71
Test Plot of Radiated emissions outside band
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2017-06-08 /

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

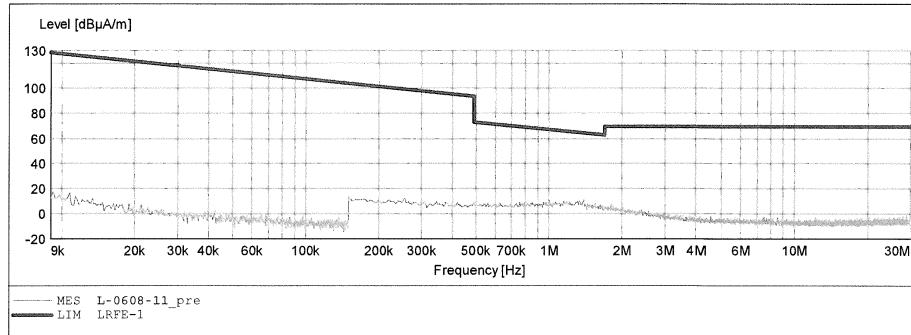


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 27 von 71
Page 27 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2017-06-08 /

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

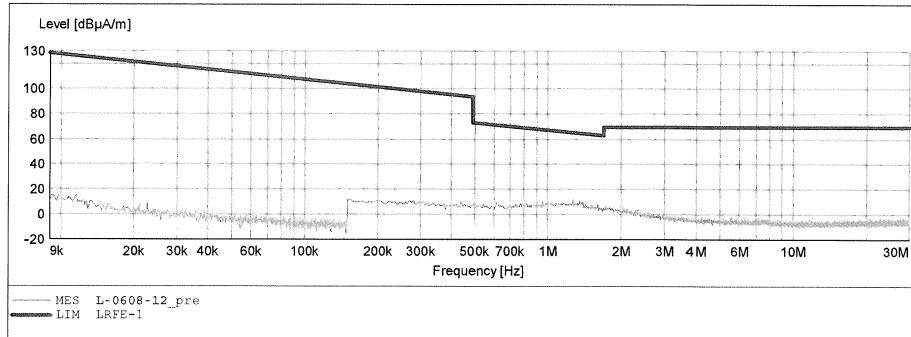


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 28 von 71
Page 28 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2422.999969MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

SCAN TABLE: "LFRE Fin"

Short Description:		SUB_STD_VTERM2 1.70				
Start	Stop	Step	Detector	Meas.	IF	
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

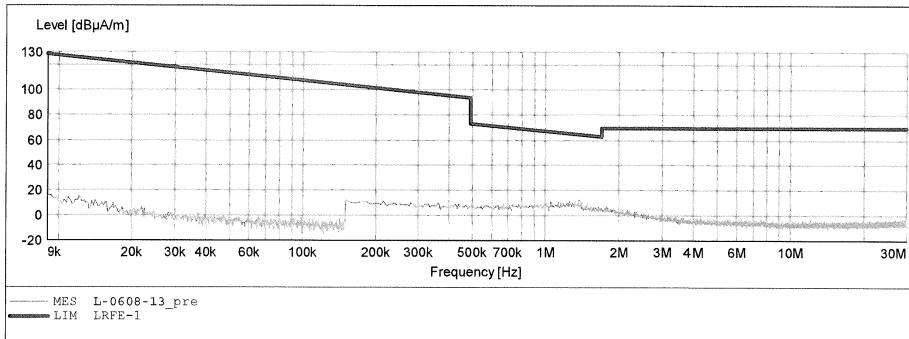


Prüfbericht - Nr.: **50089031 001**
Test Report No.Seite 29 von 71
Page 29 of 71**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Wireless Receiver(Master) M/N:MC251
Manufacturer: Limoss
Operating Condition: TX 2448.393768MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2017-06-08 /

SCAN TABLE: "LFRE Fin"

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

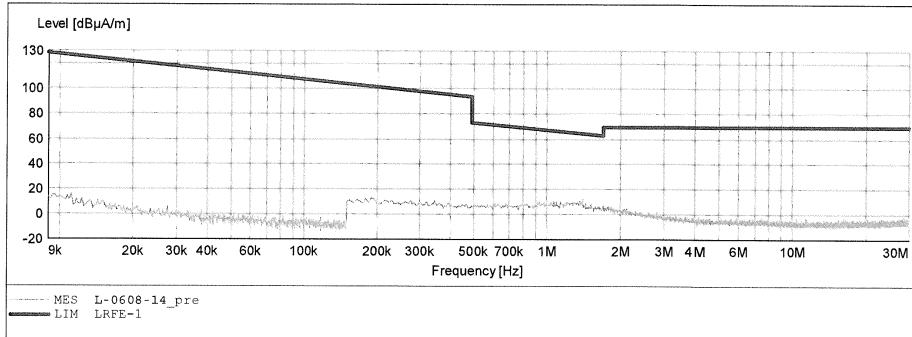


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 30 von 71
Page 30 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2448.393768MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2017-06-08 /

SCAN TABLE: "LFRE Fin"

Short Description: SUB_STD_VTERM2 1.70					
Start	Stop	Step	Detector	Meas.	IF
Frequency	Frequency	Width		Time	Bandw.
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz
					1516M

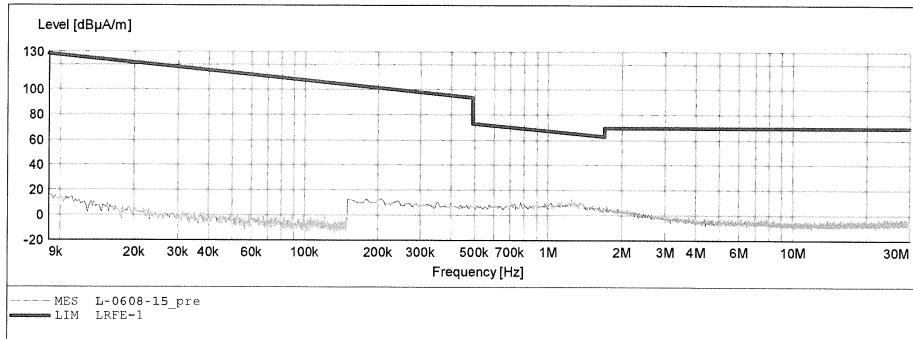


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 31 von 71
Page 31 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2448.393768MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70					
Start	Stop	Step	Detector	Meas.	IF
Frequency	Frequency	Width		Time	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

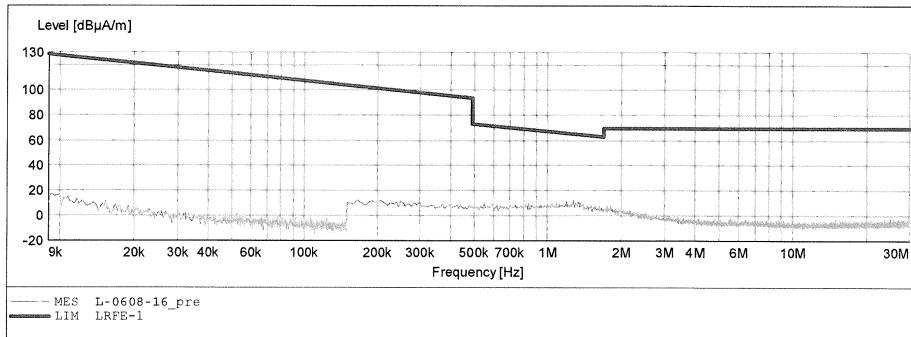


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 32 von 71
Page 32 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2473.987518MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2017-06-08 /

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

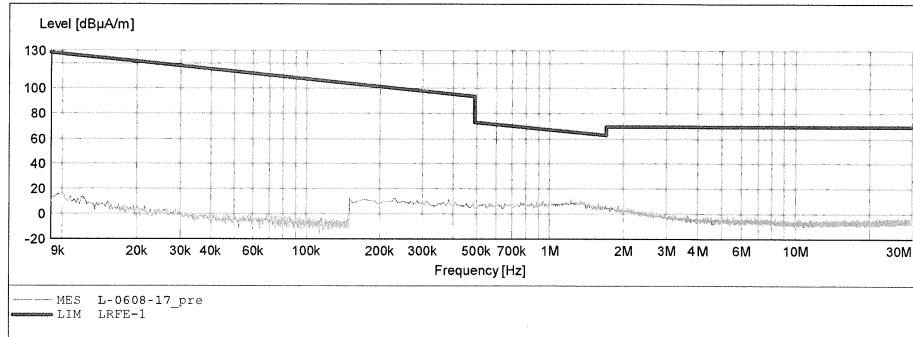


Prüfbericht - Nr.: **50089031 001**
Test Report No.Seite 33 von 71
Page 33 of 71**ACCURATE TECHNOLOGY CO., LTD****FCC Class B 3M Radiated**

EUT: Wireless Receiver (Master) M/N:MC251
Manufacturer: Limoss
Operating Condition: TX 2473.987518MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: Y
Start of Test: 2017-06-08 /

SCAN TABLE: "LFRE Fin"

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

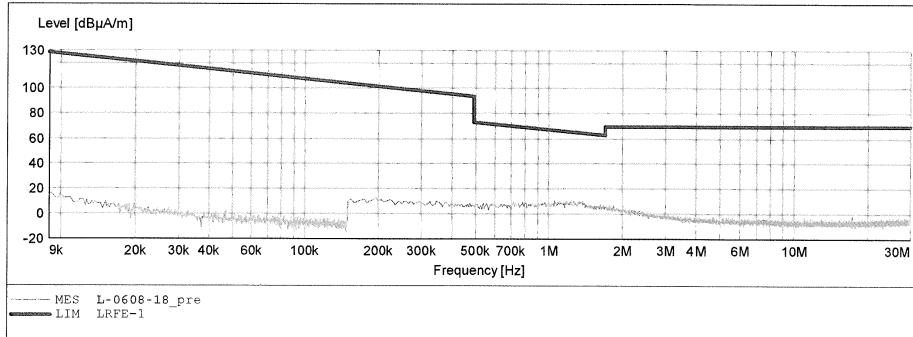


Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 34 von 71
Page 34 of 71
ACCURATE TECHNOLOGY CO., LTD
FCC Class B 3M Radiated

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX 2473.987518MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2017-06-08 /

SCAN TABLE: "LRFE Fin"

Short Description: _SUB_STD_VTERM2 1.70					
Start	Stop	Step	Detector	Meas.	IF
Frequency	Frequency	Width		Time	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



Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 35 von 71
Page 35 of 71

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.: LGW2017 #2484

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/31/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

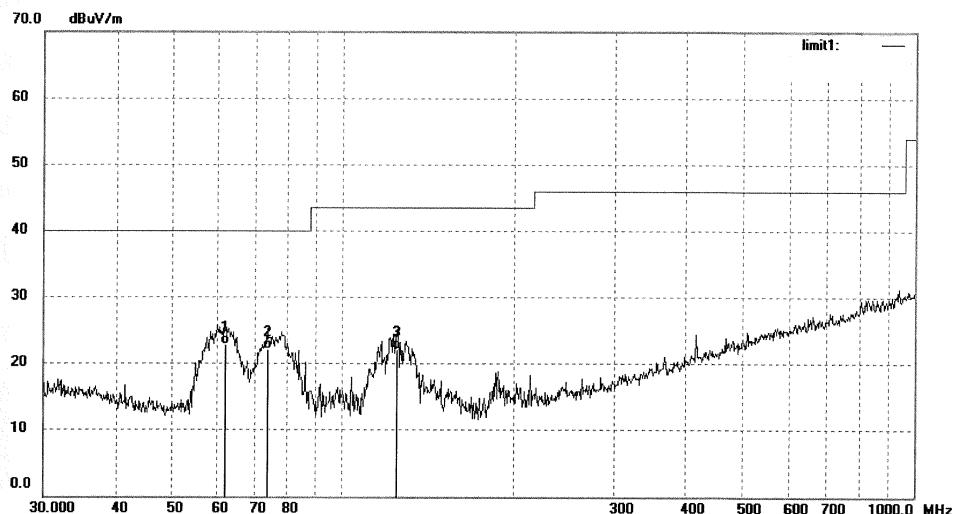
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	61.9951	37.47	-14.62	22.85	40.00	-17.15	QP			
2	73.6170	38.74	-16.54	22.20	40.00	-17.80	QP			
3	124.5690	35.64	-13.58	22.06	43.50	-21.44	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 36 von 71
Page 36 of 71

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.: LGW2017 #2485

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/31

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

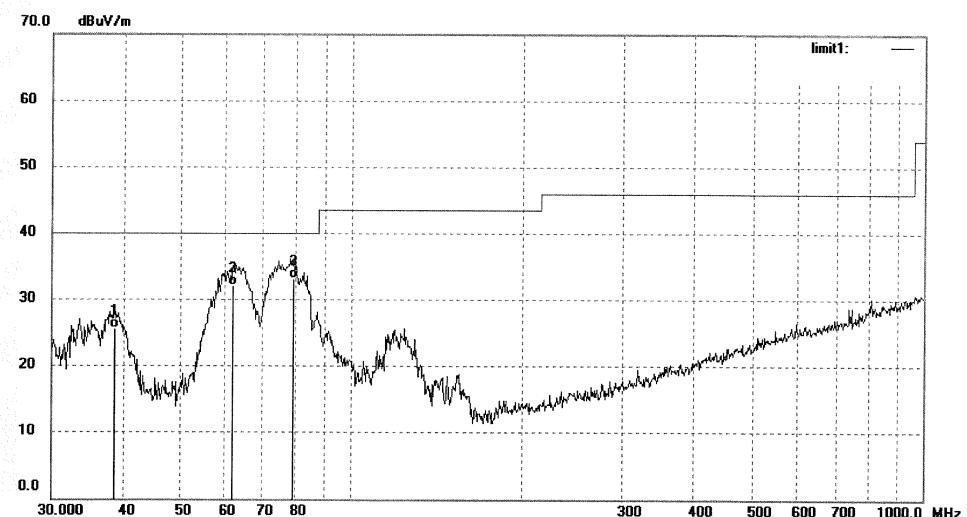
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.4808	36.88	-11.20	25.68	40.00	-14.32	QP			
2	61.7781	46.65	-14.55	32.10	40.00	-7.90	QP			
3	78.9651	49.65	-16.52	33.13	40.00	-6.87	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 37 von 71
Page 37 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

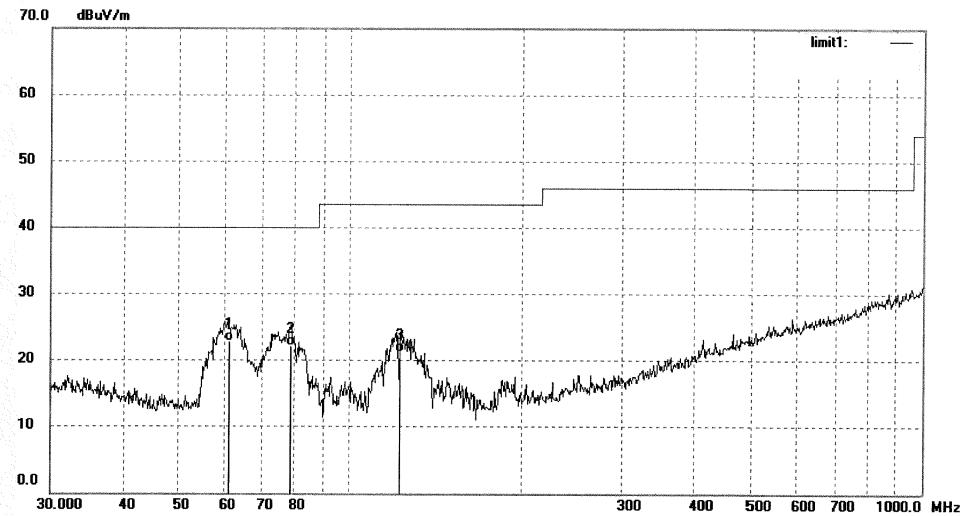
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2487	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/31
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2448.393768MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	61.1315	37.16	-14.32	22.84	40.00	-17.16	QP			
2	78.6888	38.74	-16.53	22.21	40.00	-17.79	QP			
3	122.4039	34.63	-13.33	21.30	43.50	-22.20	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 38 von 71
Page 38 of 71

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.: LGW2017 #2486

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/31/

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

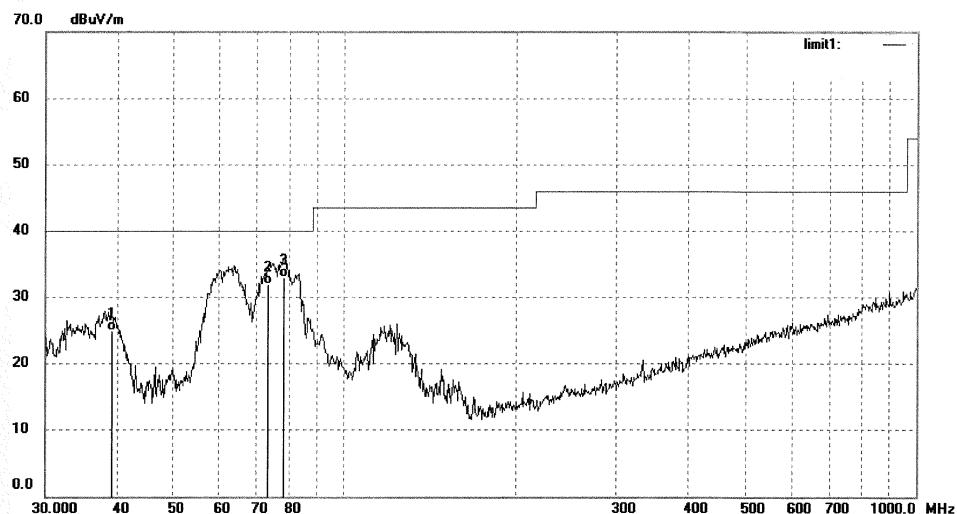
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.0245	36.33	-11.32	25.01	40.00	-14.99	QP			
2	73.3593	48.45	-16.51	31.94	40.00	-8.06	QP			
3	78.4133	49.49	-16.55	32.94	40.00	-7.06	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 39 von 71
Page 39 of 71

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.: LGW2017 #2488

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/31/

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

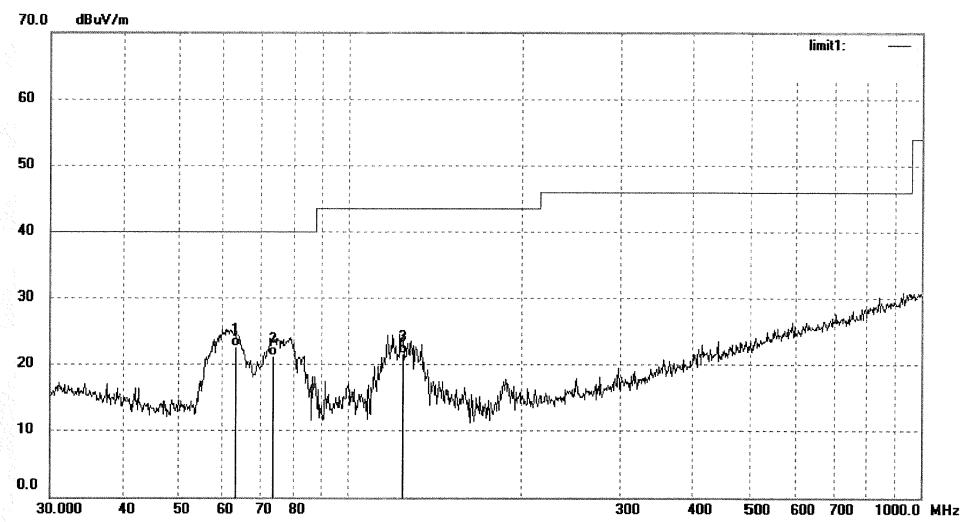
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	63.3132	37.74	-15.10	22.64	40.00	-17.36	QP			
2	73.8756	37.87	-16.56	21.31	40.00	-18.69	QP			
3	124.1329	35.20	-13.54	21.66	43.50	-21.84	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 40 von 71
Page 40 of 71

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.: LGW2017 #2489

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/31/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

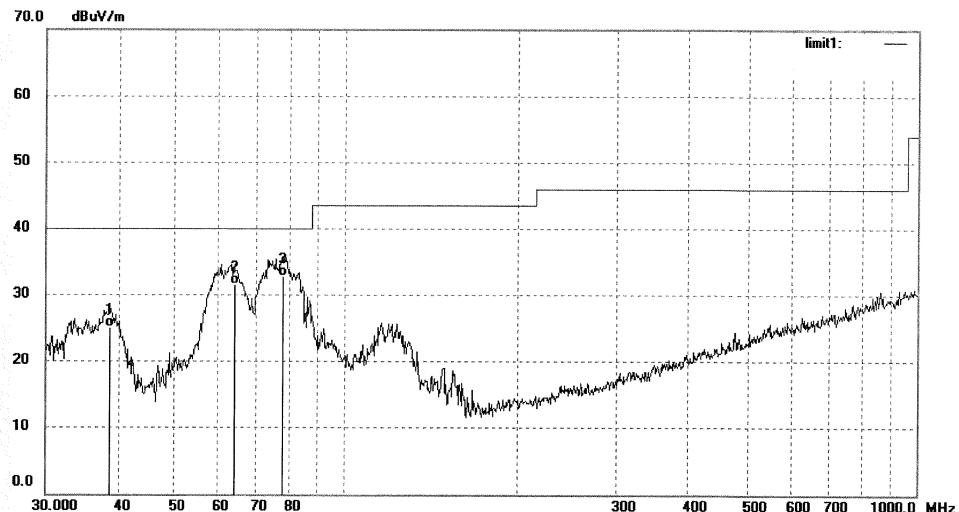
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	38.7518	36.29	-11.25	25.04	40.00	-14.96	QP			
2	63.9827	46.98	-15.33	31.65	40.00	-8.35	QP			
3	78.1389	49.35	-16.56	32.79	40.00	-7.21	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 41 von 71
Page 41 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

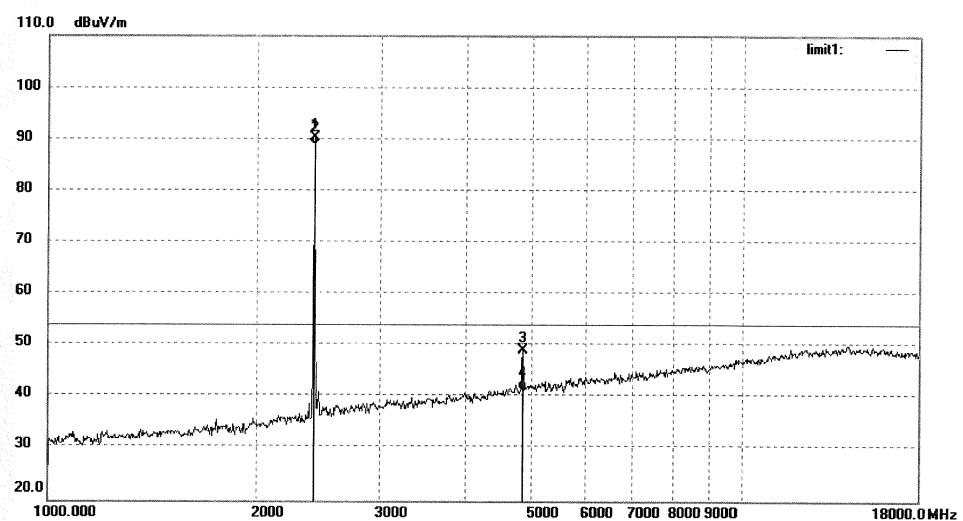
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2416	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2422.999969MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	91.84	-1.52	90.32	114.00	-23.68	peak			
2	2422.999	90.54	-1.52	89.02	94.00	-4.98	AVG			
3	4846.001	43.81	5.28	49.09	74.00	-24.91	peak			
4	4846.001	36.19	5.28	41.47	54.00	-12.53	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 42 von 71
Page 42 of 71

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.: LGW2017 #2417

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

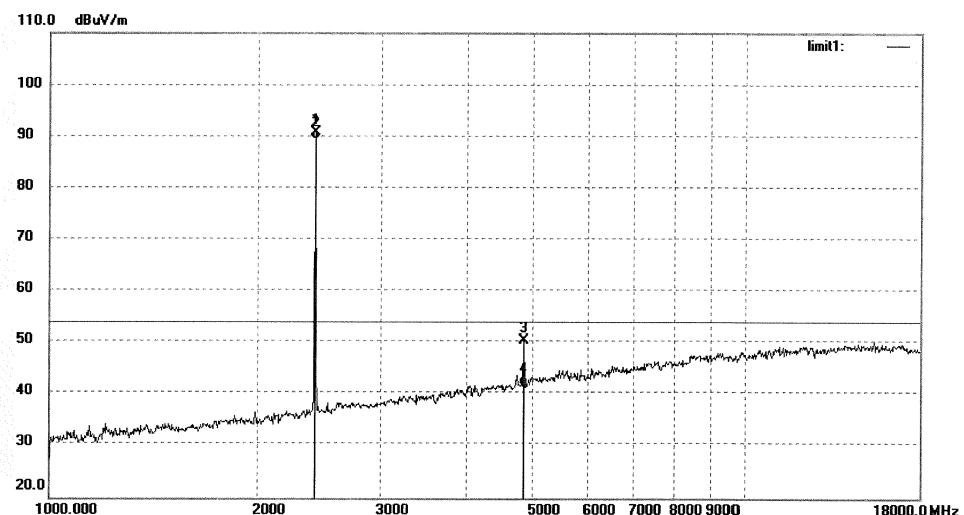
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2422.999	92.18	-1.52	90.66	114.00	-23.34	peak			
2	2422.999	90.88	-1.52	89.36	94.00	-4.64	AVG			
3	4843.997	45.16	5.28	50.44	74.00	-23.56	peak			
4	4843.997	36.36	5.28	41.64	54.00	-12.36	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 43 von 71
Page 43 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

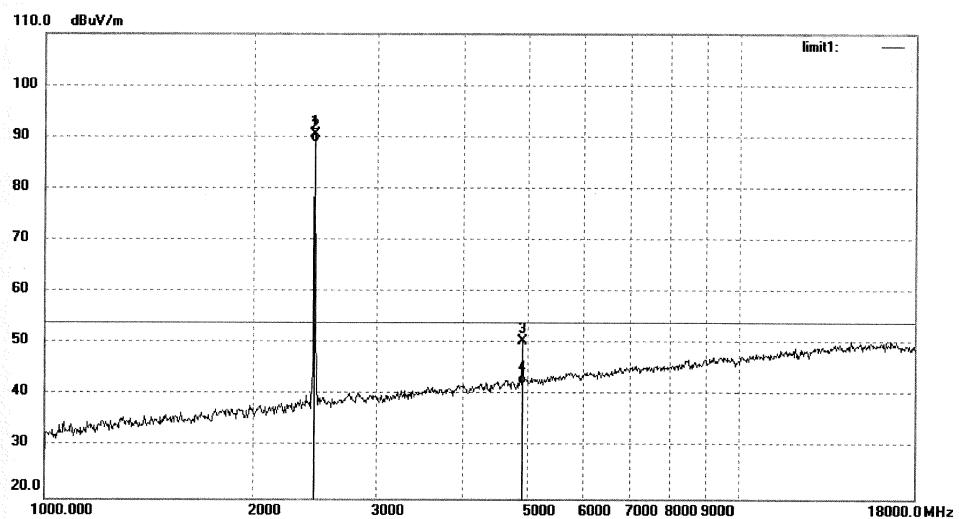
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2420	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2448.393768MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	91.92	-1.42	90.50	114.00	-23.50	peak			
2	2448.393	90.42	-1.42	89.00	94.00	-5.00	AVG			
3	4896.786	44.70	5.74	50.44	74.00	-23.56	peak			
4	4896.786	36.40	5.74	42.14	54.00	-11.86	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 44 von 71
Page 44 of 71

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.: LGW2017 #2421

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

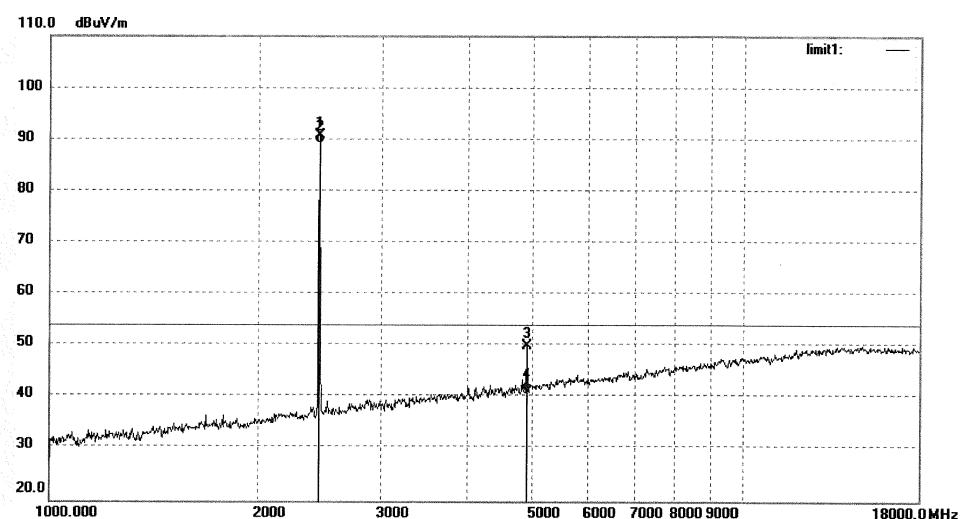
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2448.393	92.20	-1.42	90.78	114.00	-23.22	peak			
2	2448.393	90.70	-1.42	89.28	94.00	-4.72	AVG			
3	4896.794	44.37	5.74	50.11	74.00	-23.89	peak			
4	4896.794	35.50	5.74	41.24	54.00	-12.76	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 45 von 71
Page 45 of 71

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.: LGW2017 #2423

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

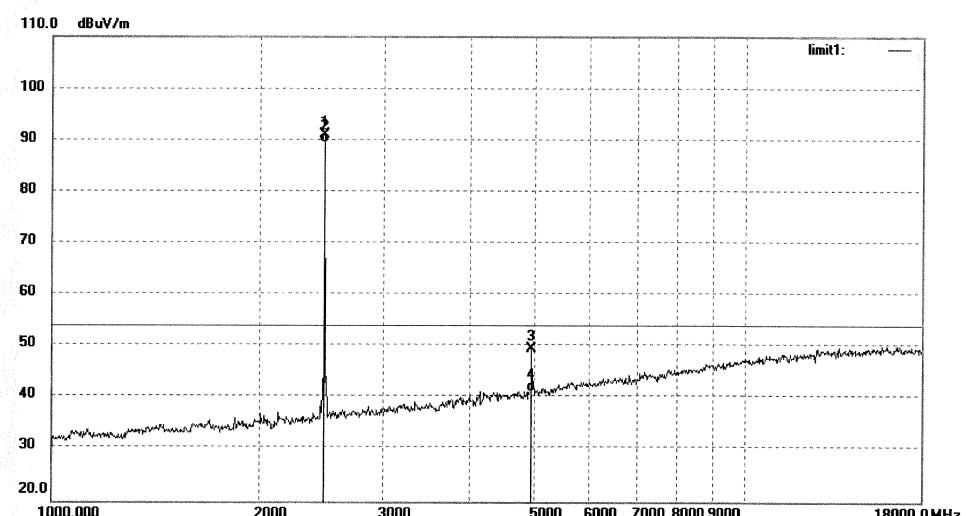
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	92.33	-1.41	90.92	114.00	-23.08	peak			
2	2473.987	90.83	-1.41	89.42	94.00	-4.58	AVG			
3	4948.012	43.55	6.03	49.58	74.00	-24.42	peak			
4	4948.012	35.21	6.03	41.24	54.00	-12.76	AVG			

Prüfbericht - Nr.: **50089031 001**
Test Report No.
Seite 46 von 71
Page 46 of 71

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.: LGW2017 #2422

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

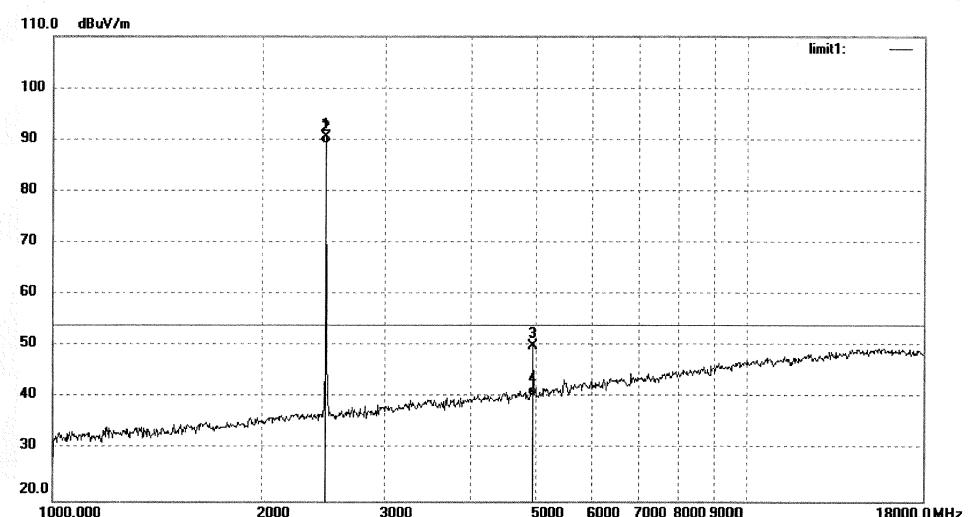
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.987	92.04	-1.41	90.63	114.00	-23.37	peak			
2	2473.987	90.54	-1.41	89.13	94.00	-4.87	AVG			
3	4947.990	43.93	6.03	49.96	74.00	-24.04	peak			
4	4947.990	34.31	6.03	40.34	54.00	-13.66	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 47 von 71
Page 47 of 71

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

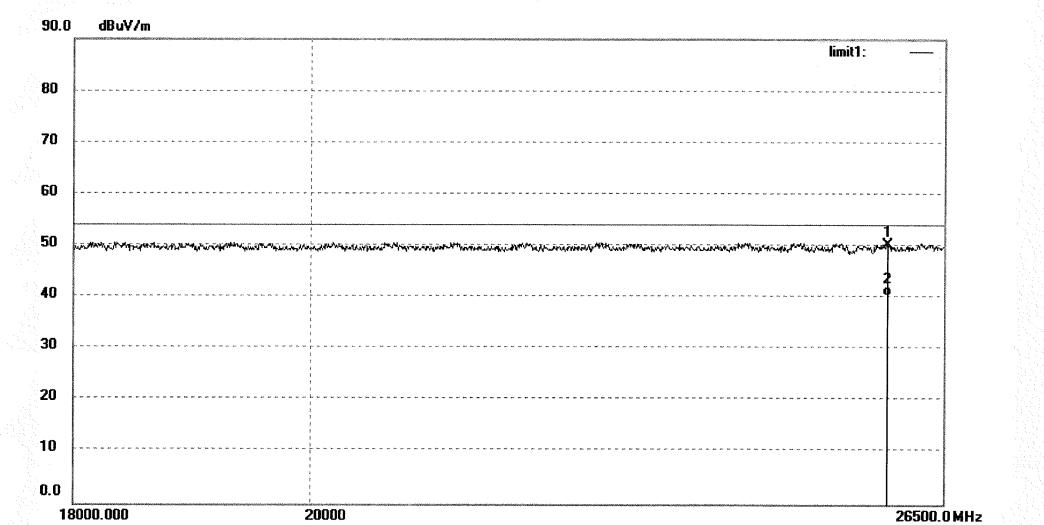
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2427	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27/
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2422.999969MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25862.086	10.18	40.18	50.36	74.00	-23.64	peak			
2	25862.086	0.17	40.18	40.35	54.00	-13.65	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 48 von 71
Page 48 of 71

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2426

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

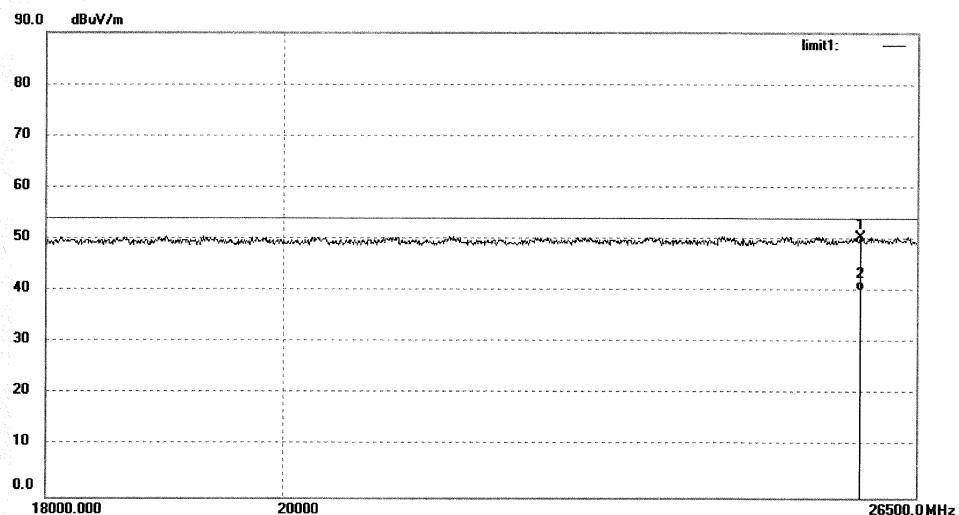
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25852.085	9.48	41.00	50.48	74.00	-23.52	peak			
2	25852.085	-0.79	41.00	40.21	54.00	-13.79	Avg			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 49 von 71
Page 49 of 71

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.: LGW2017 #2428

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

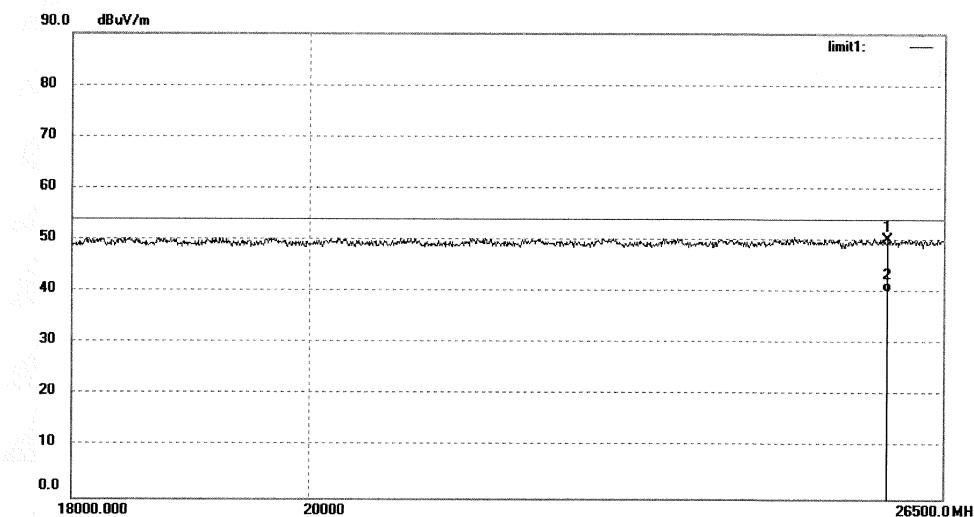
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25862.086	10.01	40.18	50.19	74.00	-23.81	peak			
2	25862.086	0.06	40.18	40.24	54.00	-13.76	AVG			

Prüfbericht - Nr.: **50089031 001**
Test Report No.

Seite 50 von 71
Page 50 of 71



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2429

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

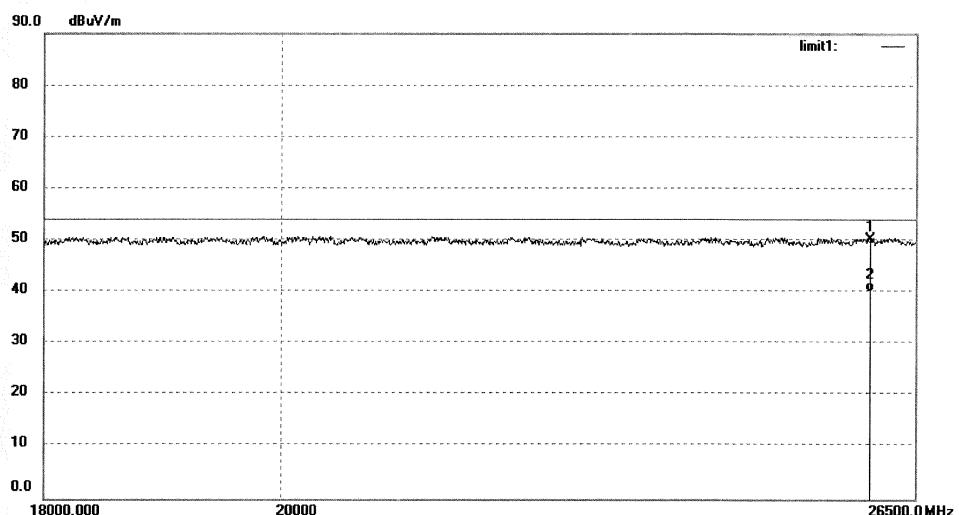
Mode: TX 2448.393768MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25982.398	9.42	40.98	50.40	74.00	-23.60	peak			
2	25982.398	-0.74	40.98	40.24	54.00	-13.76	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 51 von 71
Page 51 of 71

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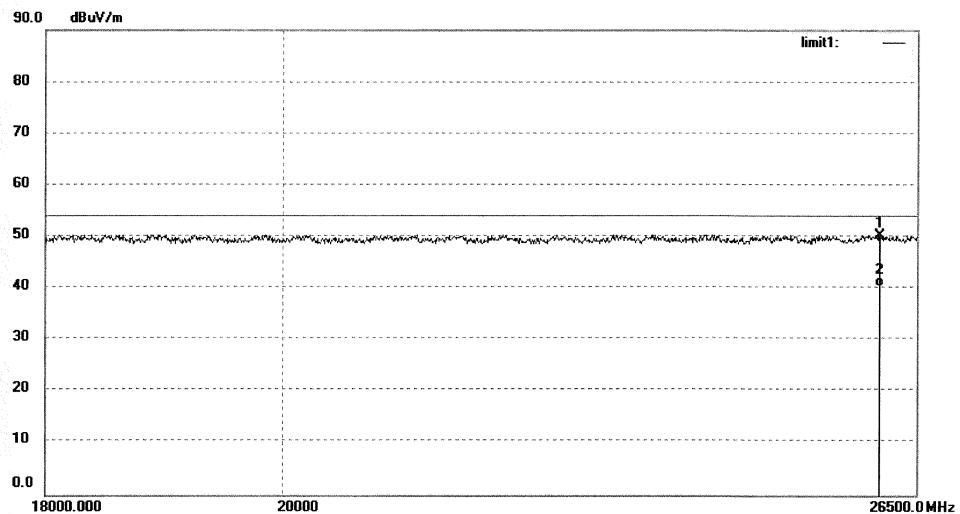
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2431	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27/
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2473.987518MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.917	10.03	40.28	50.31	74.00	-23.69	peak			
2	26062.917	0.13	40.28	40.41	54.00	-13.59	Avg			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 52 von 71
Page 52 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

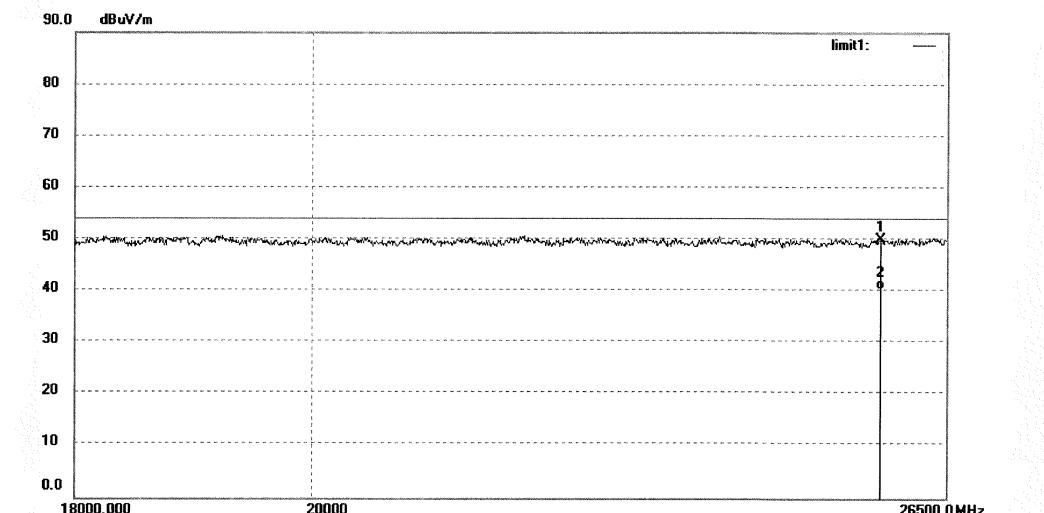
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2430	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2473.987518MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25732.376	9.00	41.02	50.02	74.00	-23.98	peak			
2	25732.376	-0.61	41.02	40.41	54.00	-13.59	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 53 von 71
Page 53 of 71
Test Plot of Frequency Band Edge

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.: LGW2017 #2419

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

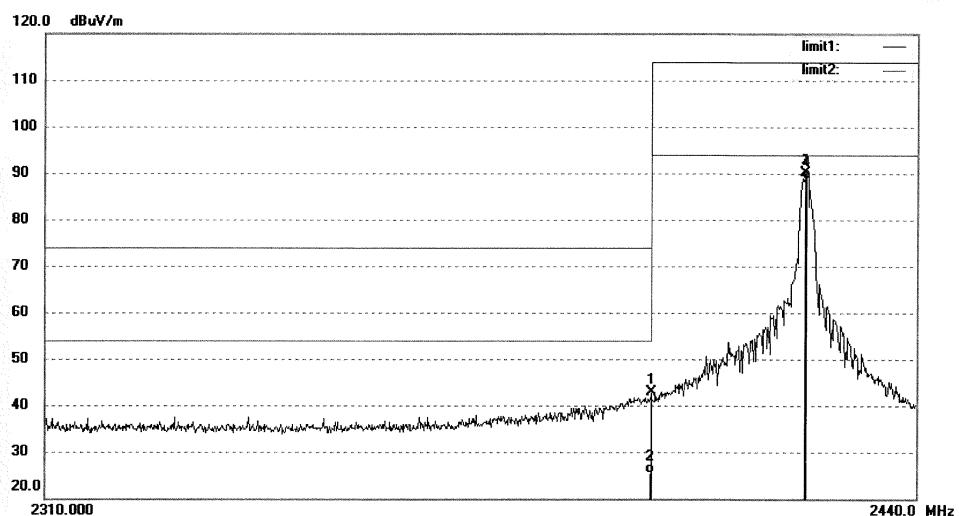
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

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	44.43	-1.62	42.81	74.00	-31.19	peak			
2	2400.000	27.03	-1.62	25.41	54.00	-28.59	AVG			
3	2422.999	91.61	-1.52	90.09	114.00	-23.91	peak			
4	2422.999	90.31	-1.52	88.79	94.00	-5.21	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 54 von 71
Page 54 of 71

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.: LGW2017 #2418

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

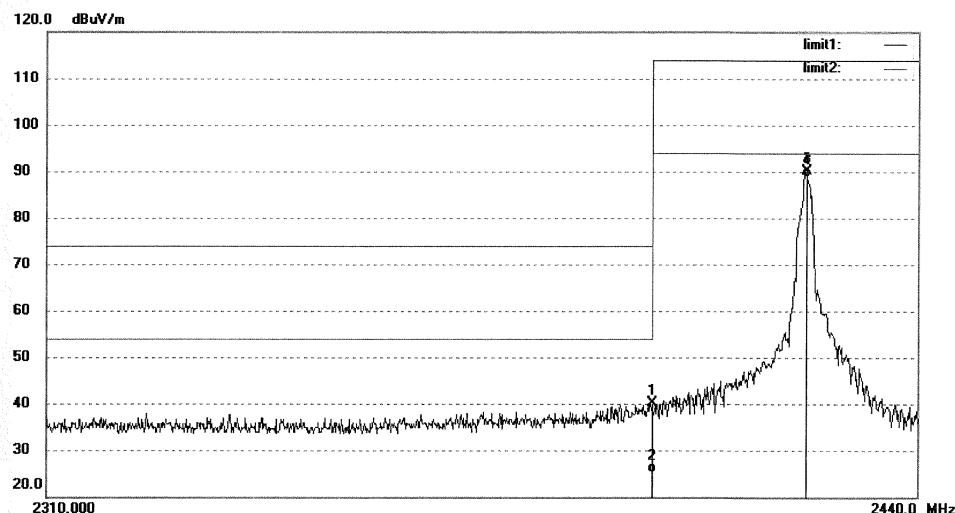
Mode: TX 2422.999969MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

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	41.78	-1.62	40.16	74.00	-33.84	peak			
2	2400.000	26.83	-1.62	25.21	54.00	-28.79	AVG			
3	2423.009	91.68	-1.52	90.16	114.00	-23.84	peak			
4	2423.009	90.38	-1.52	88.86	94.00	-5.14	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 55 von 71
Page 55 of 71

ACCURATE TECHNOLOGY CO., LTD.

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

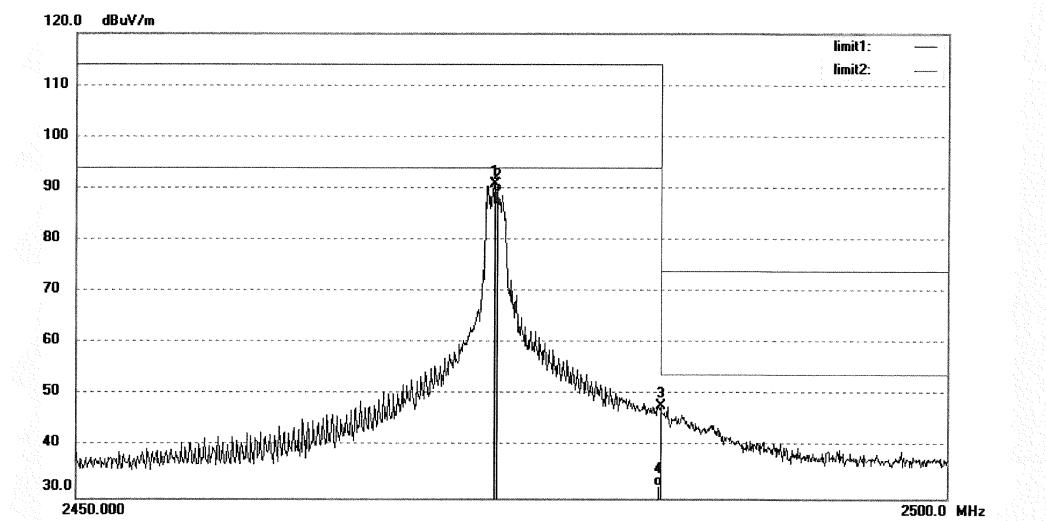
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2424	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/05/27
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: TX 2473.987518MHz	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.998	92.20	-1.41	90.79	114.00	-23.21	peak			
2	2473.998	90.70	-1.41	89.29	94.00	-4.71	Avg			
3	2483.500	49.21	-1.40	47.81	74.00	-26.19	peak			
4	2483.500	33.85	-1.40	32.45	54.00	-21.55	Avg			

Prüfbericht - Nr.: **50089031 001**
Test Report No.

Seite 56 von 71
Page 56 of 71



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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.: LGW2017 #2425

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/05/27

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

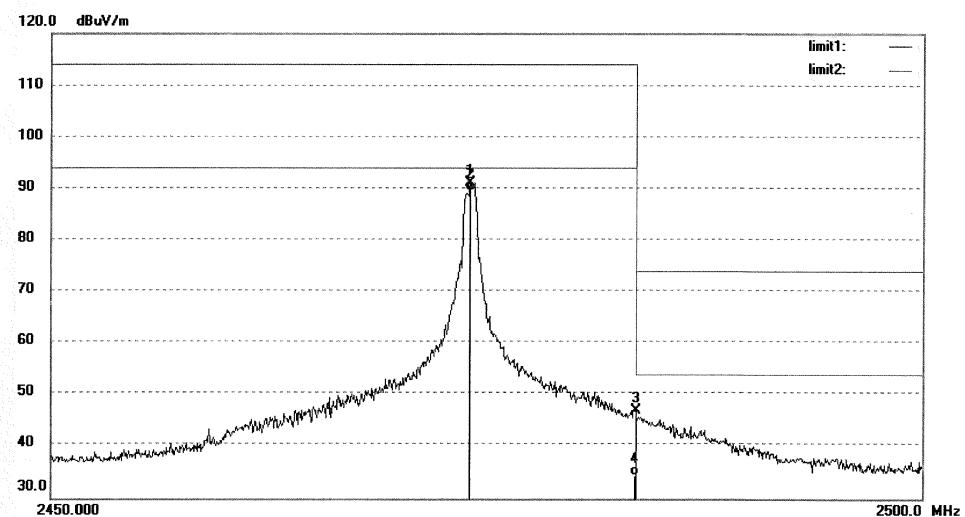
Mode: TX 2473.987518MHz

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.980	92.45	-1.41	91.04	114.00	-22.96	peak			
2	2473.980	90.95	-1.41	89.54	94.00	-4.46	AVG			
3	2483.500	48.49	-1.40	47.09	74.00	-26.91	peak			
4	2483.500	35.87	-1.40	34.47	54.00	-19.53	AVG			

Prüfbericht - Nr.: **50089031 001**
*Test Report No.***Seite 57 von 71**
*Page 57 of 71***5.1.5 Conducted emissions****RESULT:****Pass**

Date of testing	:	2017-03-29
Test standard	:	FCC Part 15.107 (a) FCC Part 15.207 RSS-Gen Clause 8.8 ICES-003 Issue 6 January 2016
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, B
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

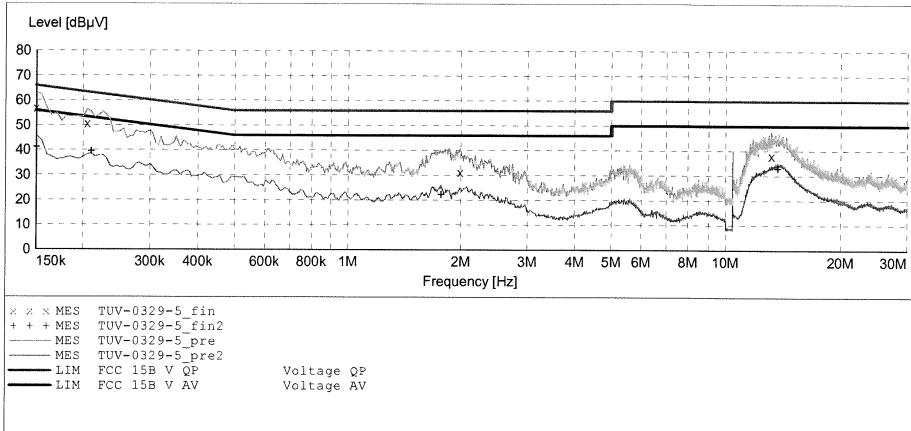
For details refer to following test plot.

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 58 von 71
Page 58 of 71
ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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-0329-5_fin"

3/29/2017

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	56.90	10.5	66	9.1	QP	L1	GND
0.205000	50.70	10.5	63	12.7	QP	L1	GND
1.990000	31.20	11.0	56	24.8	QP	L1	GND
13.180000	38.00	11.3	60	22.0	QP	L1	GND

MEASUREMENT RESULT: "TUV-0329-5_fin2"

3/29/2017

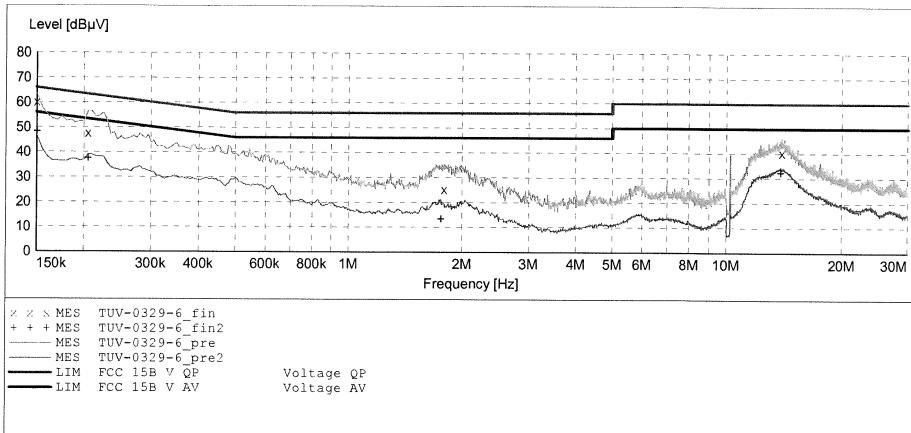
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	41.10	10.5	56	14.9	AV	L1	GND
0.210000	39.40	10.5	53	13.8	AV	L1	GND
1.770000	22.20	11.0	46	23.8	AV	L1	GND
13.675000	32.90	11.3	50	17.1	AV	L1	GND

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 59 von 71
Page 59 of 71
ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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

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	NSLK8126 2008
			Average			
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
			Average			


MEASUREMENT RESULT: "TUV-0329-6_fin"

3/29/2017

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	60.20	10.5	66	5.8	QP	N	GND
0.205000	47.70	10.5	63	15.7	QP	N	GND
1.795000	25.30	11.0	56	30.7	QP	N	GND
13.930000	40.30	11.4	60	19.7	QP	N	GND

MEASUREMENT RESULT: "TUV-0329-6_fin2"

3/29/2017

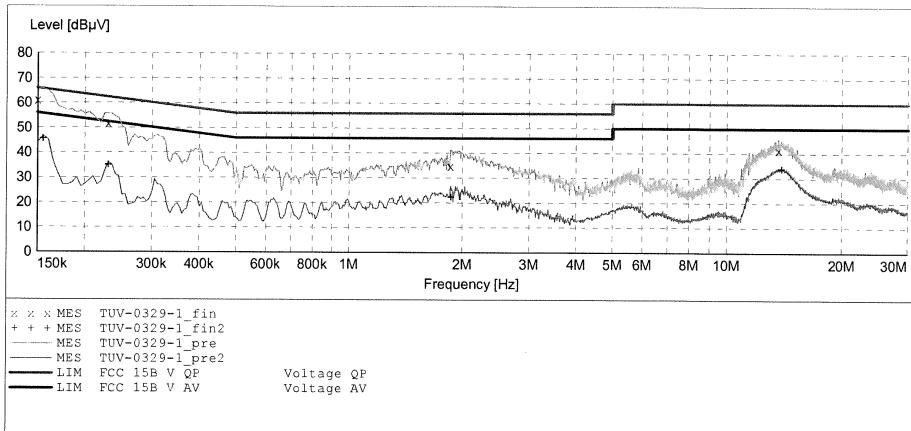
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	48.20	10.5	56	7.8	AV	N	GND
0.205000	37.50	10.5	53	15.9	AV	N	GND
1.760000	13.30	11.0	46	32.7	AV	N	GND
13.825000	32.30	11.4	50	17.7	AV	N	GND

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 60 von 71
Page 60 of 71
ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Receiver(Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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-0329-1_fin"

3/29/2017

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.150000	61.10	10.5	66	4.9	QP	L1	GND
0.230000	51.80	10.6	62	10.6	QP	L1	GND
1.860000	34.80	11.0	56	21.2	QP	L1	GND
13.615000	41.50	11.3	60	18.5	QP	L1	GND

MEASUREMENT RESULT: "TUV-0329-1_fin2"

3/29/2017

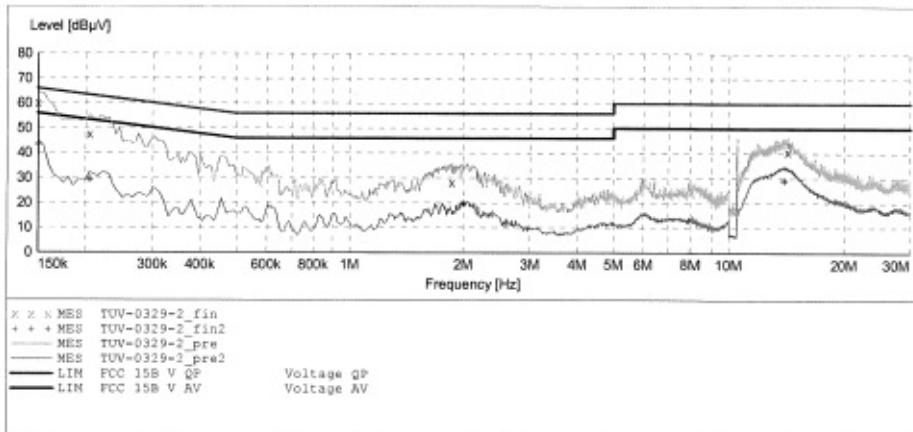
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.155000	45.50	10.5	56	10.2	AV	L1	GND
0.230000	35.00	10.6	52	17.4	AV	L1	GND
1.865000	22.30	11.0	46	23.7	AV	L1	GND
13.870000	33.90	11.4	50	16.1	AV	L1	GND

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 61 von 71
Page 61 of 71
ACCURATE TECHNOLOGY CO., LTD
CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wireless Receiver (Master) M/N:MC251
 Manufacturer: Limoss
 Operating Condition: On
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 3/29/2017 /

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

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer 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-0329-2_fin"

3/29/2017	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	60.10	10.5	66	5.9	QP	N	GND
	0.205000	47.50	10.5	63	15.9	QP	N	GND
	1.865000	28.20	11.0	56	27.8	QP	N	GND
	14.185000	40.70	11.4	60	19.3	QP	N	GND

MEASUREMENT RESULT: "TUV-0329-2_fin2"

3/29/2017	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.150000	43.30	10.5	56	12.7	AV	N	GND
	0.205000	29.30	10.5	53	24.1	AV	N	GND
	2.000000	19.70	11.0	46	26.3	AV	N	GND
	13.885000	29.00	11.4	50	21.0	AV	N	GND

Prüfbericht - Nr.: **50089031 001**
Test Report No.

Seite 62 von 71
Page 62 of 71

5.1.6 Radiated Emission

RESULT:

Pass

Date of testing	:	2017-06-02
Test standard	:	FCC Part 15.109 (a) ICES-003 Issue 6 January 2016
Test procedure	:	ANSI C63.4: 2014
Frequency range	:	30 - 6000MHz
Equipment Classification	:	Class B
Limits	:	FCC Part 15.109(a) ICES-003 Issue 6 January 2016
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation mode	:	B
Earthing	:	Not connected
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 63 von 71
Page 63 of 71

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

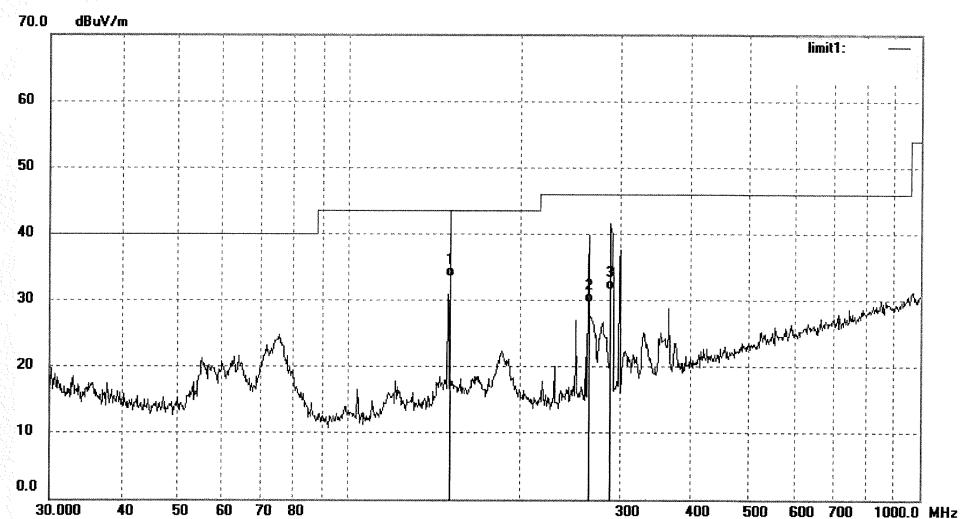
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2523	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/06/02/
Temp. (C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: On	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	150.5378	48.57	-15.04	33.53	43.50	-9.97	QP			
2	263.8190	39.99	-10.26	29.73	46.00	-16.27	QP			
3	287.9904	40.91	-9.34	31.57	46.00	-14.43	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 64 von 71
Page 64 of 71

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.: LGW2017 #2522

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/06/02/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

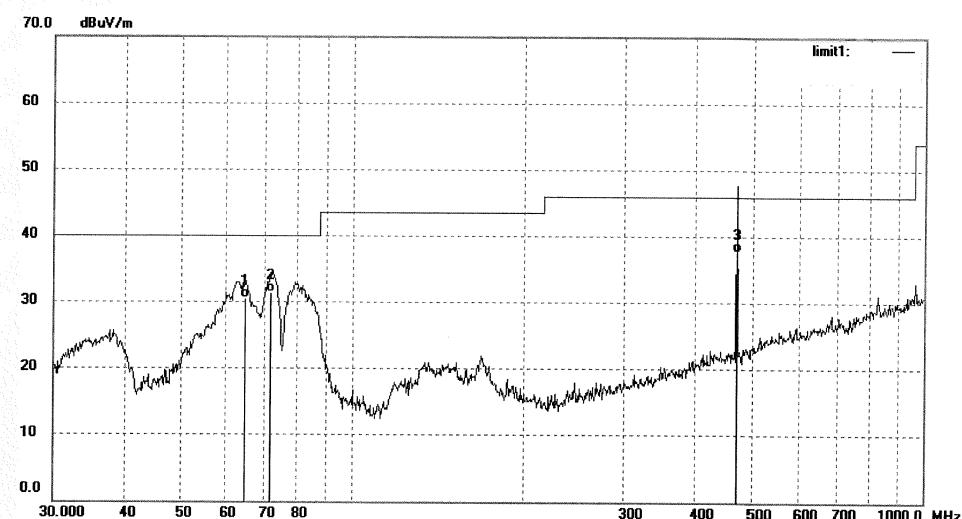
Mode: On

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	64.6594	46.12	-15.57	30.55	40.00	-9.45	QP			
2	71.8319	47.75	-16.30	31.45	40.00	-8.55	QP			
3	473.8346	42.61	-4.97	37.64	46.00	-8.36	QP			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 65 von 71
Page 65 of 71

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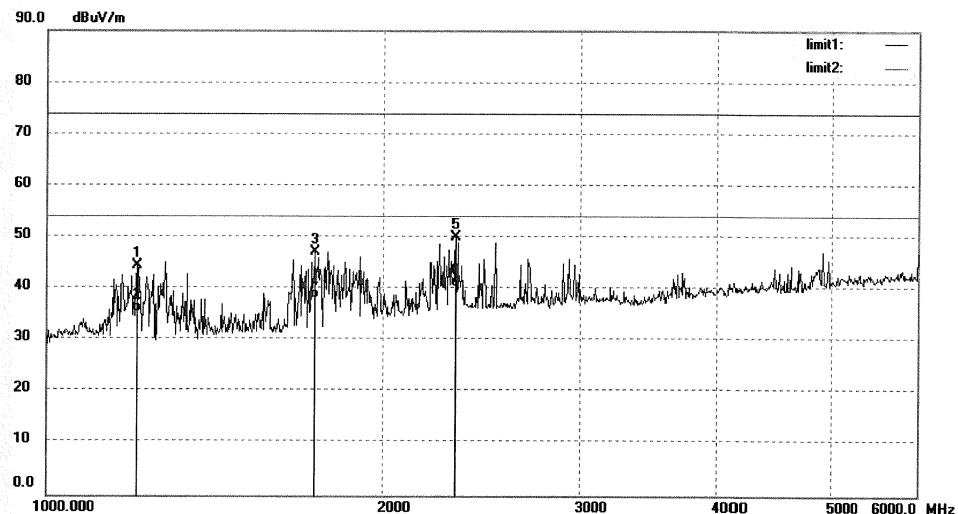
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2017 #2524	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 17/06/02/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless Receiver(Master)	Engineer Signature: WADE
Mode: On	Distance: 3m
Model: MC251	
Manufacturer: Limoss	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1202.678	53.36	-8.85	44.51	74.00	-29.49	peak			
2	1202.678	44.40	-8.85	35.55	54.00	-18.45	AVG			
3	1736.483	53.31	-6.08	47.23	74.00	-26.77	peak			
4	1736.483	44.20	-6.08	38.12	54.00	-15.88	AVG			
5	2321.299	52.01	-2.04	49.97	74.00	-24.03	peak			
6	2321.299	42.48	-2.04	40.44	54.00	-13.56	AVG			

Prüfbericht - Nr.: 50089031 001
Test Report No.
Seite 66 von 71
Page 66 of 71

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.: LGW2017 #2525

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 17/06/02

Temp. (C)/Hum.(%) 23 C / 48 %

Time:

EUT: Wireless Receiver(Master)

Engineer Signature: WADE

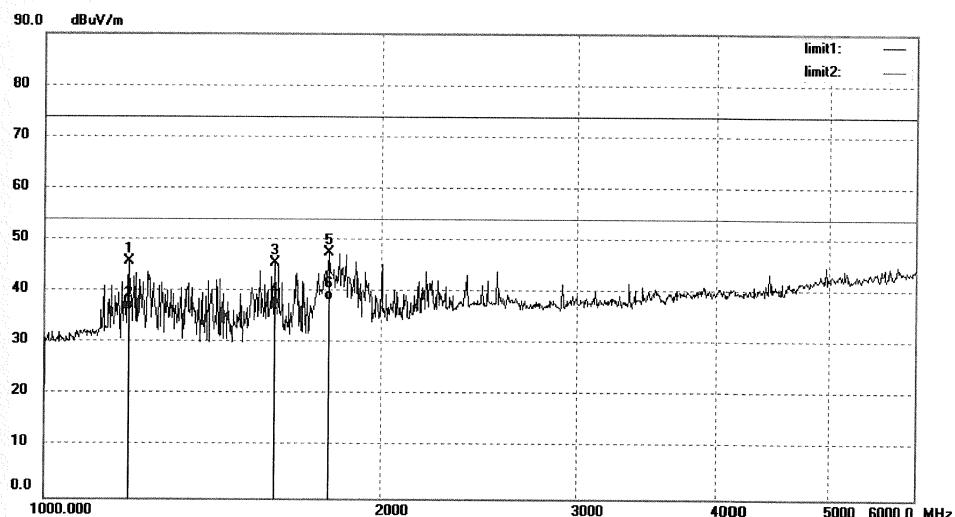
Mode: On

Distance: 3m

Model: MC251

Manufacturer: Limoss

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1187.688	54.67	-8.82	45.85	74.00	-28.15	peak			
2	1187.688	45.06	-8.82	36.24	54.00	-17.76	AVG			
3	1607.719	52.99	-7.34	45.65	74.00	-28.35	peak			
4	1607.719	44.49	-7.34	37.15	54.00	-16.85	AVG			
5	1796.617	53.02	-5.50	47.52	74.00	-26.48	peak			
6	1796.617	43.91	-5.50	38.41	54.00	-15.59	AVG			

8. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty	6
Table 3: Technical Specification of EUT	7
Table 4: Test result of 20dB & 99% Bandwidth.....	13
Table 5: Polarization of the measurement for the larger power level channel 2473.987MHz: Horizontal.....	18

9. List of Photographs

Photograph 1: Set-up for Spurious Emissions below 30MHz	68
Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz.....	68
Photograph 3: Set-up for Spurious Emissions of 1 – 18GHz	69
Photograph 4: Set-up for Spurious Emissions of 18 – 26.5GHz.....	69
Photograph 5: Set-up for Conducted Emission.....	70