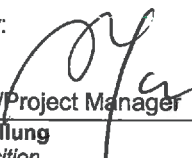


Prüfbericht-Nr.: <i>Test Report No.:</i>	50077803 001	Auftrags-Nr.: <i>Order No.:</i>	164061391	Seite 1 von 64 <i>Page 1 of 64</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.04.2016		
Auftraggeber: <i>Client:</i>	limoss (Shenzhen) Co., Ltd. 1/F & South 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: <i>Test item:</i>	Motor Controller				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	MC2xx-a-Myz-W-dd (for the detailed of variables 'xx', 'y', 'z', 'a' and 'dd', refer to clause 3.1 of test report.)				
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.249 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-210 Issue 9 August 2016 RSS-102 Issue 5 March 2015	CFR47 FCC Part 15: Subpart C Section 15.207 FCC KDB Publication 447498 D01 v06 RSS-Gen Issue 4 November 2014			
Wareneingangsdatum: <i>Date of receipt:</i>	10.06.2016				
Prüfmuster-Nr.: <i>Test sample No.:</i>	1601078				
Prüfzeitraum: <i>Testing period:</i>	18.06.2016 - 29.06.2016				
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:			kontrolliert von / reviewed by:		
17.04.2017	Andy Yan / Project Manager		17.04.2017	Owen Tian / Technical Certifier	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: FCC ID: 2AH9H-MC2XX IC: 21543-MC2XX					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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TEST SUMMARY

5.1.1 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***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

(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	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
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2017-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2017-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2017-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2017-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2017-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2017-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2017-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2017-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2017-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	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
Voltage Probe	Schwarzbeck	TK9416	N/A	2017-01-09
RF Current Probe	Rohde & Schwarz	EZ-17	100048	2017-01-09
8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.2	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.3	2017-01-09
RF Coaxial Cable	Suhner	N-2m	No.14	2017-01-09

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60$ dB
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42$ dB
Conducted Emission	$< \pm 2.23$ dB
Radiated Emission	$< \pm 4.42$ dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China 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 motor controller, it operates at 2.4GHz ISM band.
All models are identical in circuit, PCB layout & electrical component.
The meaning of variables in model name:
xx = 10, 10E or 20, stand for different model name;
y = 1 - 4, stand for the external motor quantity;
z = 0, 1, or 2, stand for the non linear external motor quantity;
a = A, B, C or blank, stand for different input current;
dd = N0, N1 or N2, stand for the number of external 9V battery;
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	Motor Controller
Type Designation	MC2xx-a-Myz-W-dd
FCC ID	2AH9H-MC2XX
IC	21543-MC2XX
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 29V
Modulation	MSK
Antenna Gain	-3.4dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Transmitting
 - 2. Receiving
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013. According to clause 3.1, all tests were applied on model MC220-M32-W-N0.

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-EU	Input: AC 100-240V, 50/60Hz, 1.6-1.7A; Output: DC 29V, 2.0A

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test for below 1GHz

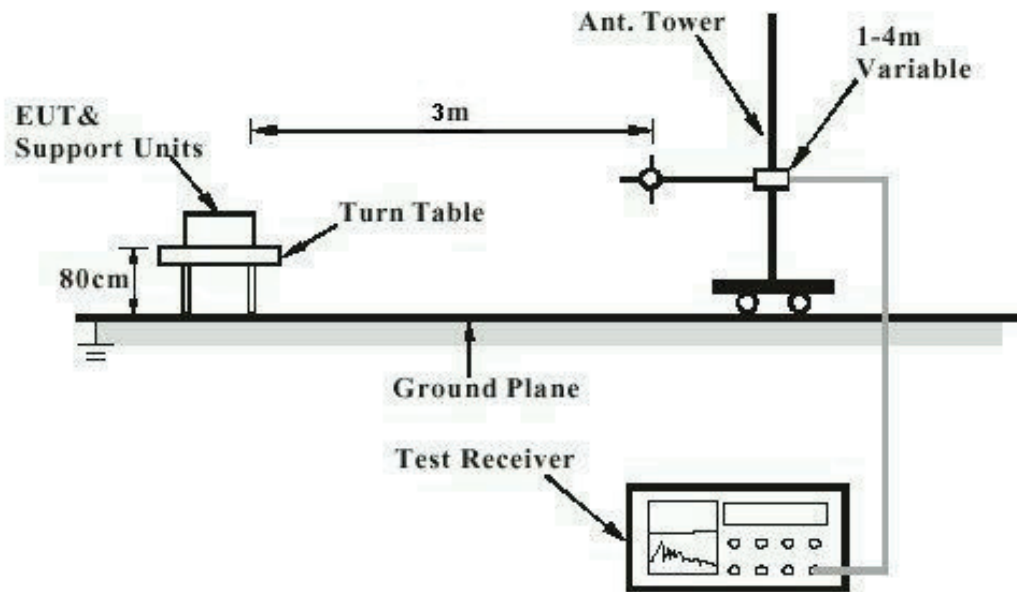


Diagram of Measurement Configuration for Radiation Test for above 1GHz

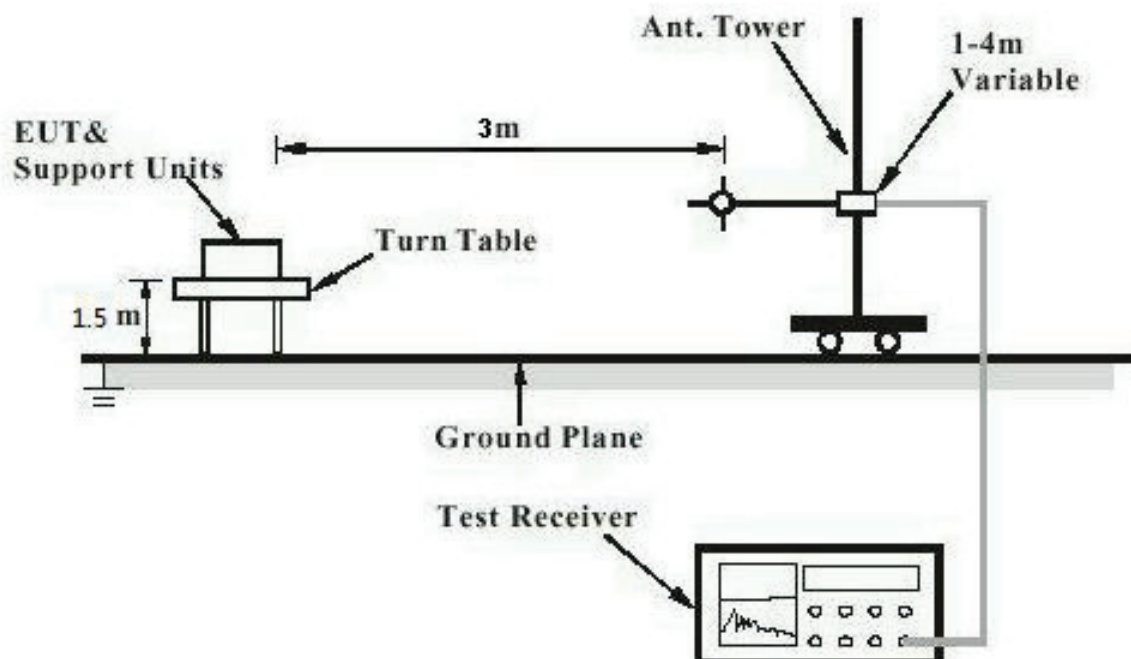


Diagram of Measurement Equipment Configuration for Transmitter Measurement

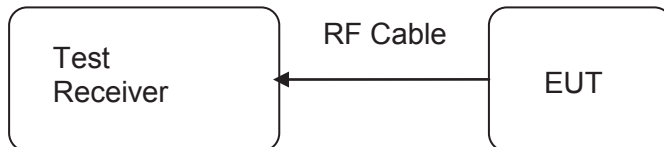
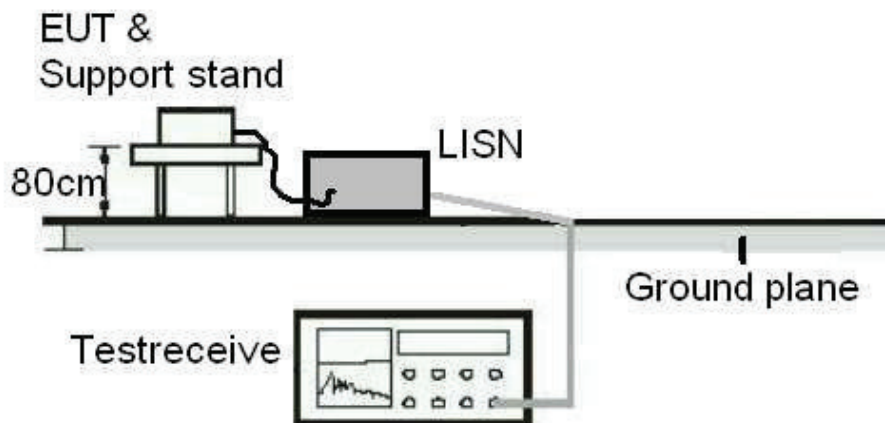


Diagram of Measurement Equipment Configuration for Conduction Measurement



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.

5.1.2 20dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2016-06-29
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

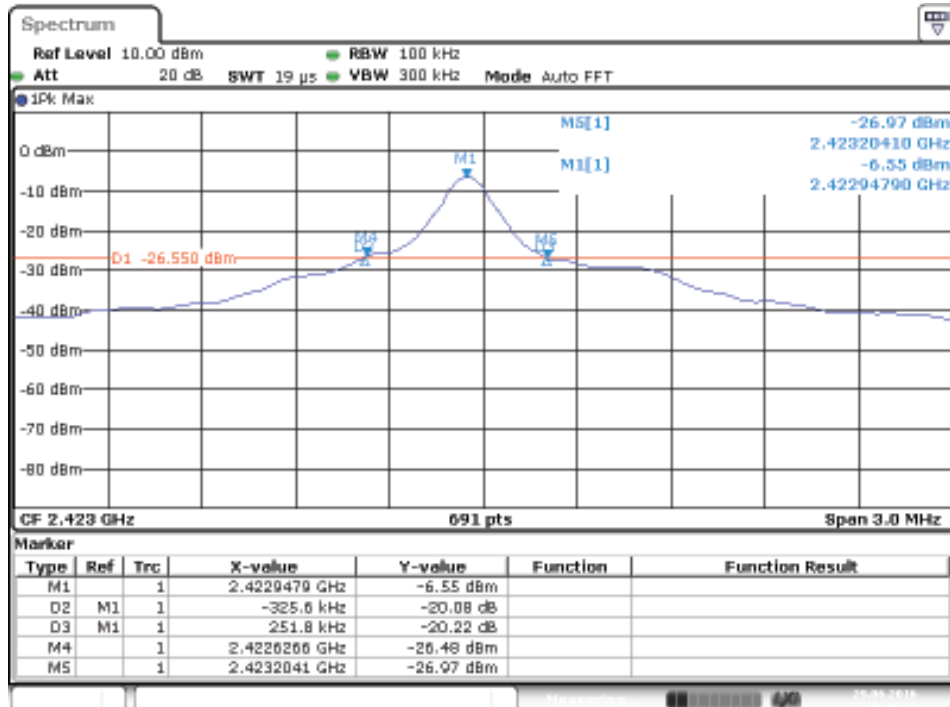
Test Channel : Low/ Middle/ High
Operation Mode : A.1
Ambient temperature : 21°C
Relative humidity : 60%
Atmospheric pressure : 101kPa

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

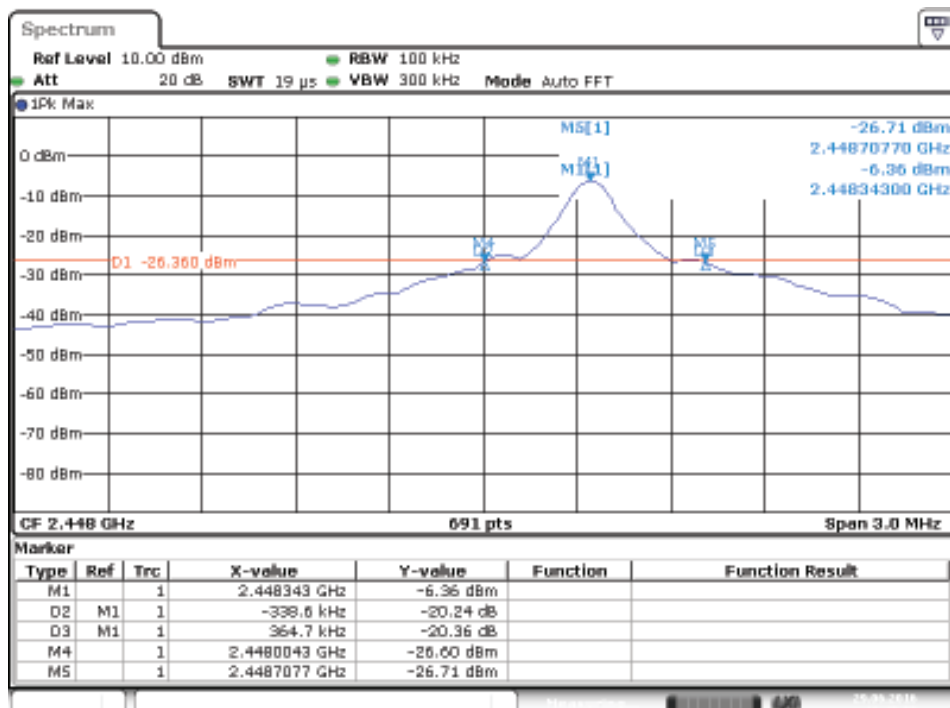
Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2422.999	0.577	1.051
Mid Channel	2448.393	0.703	1.064
High Channel	2473.987	0.582	1.090

For details refer to following test plot.

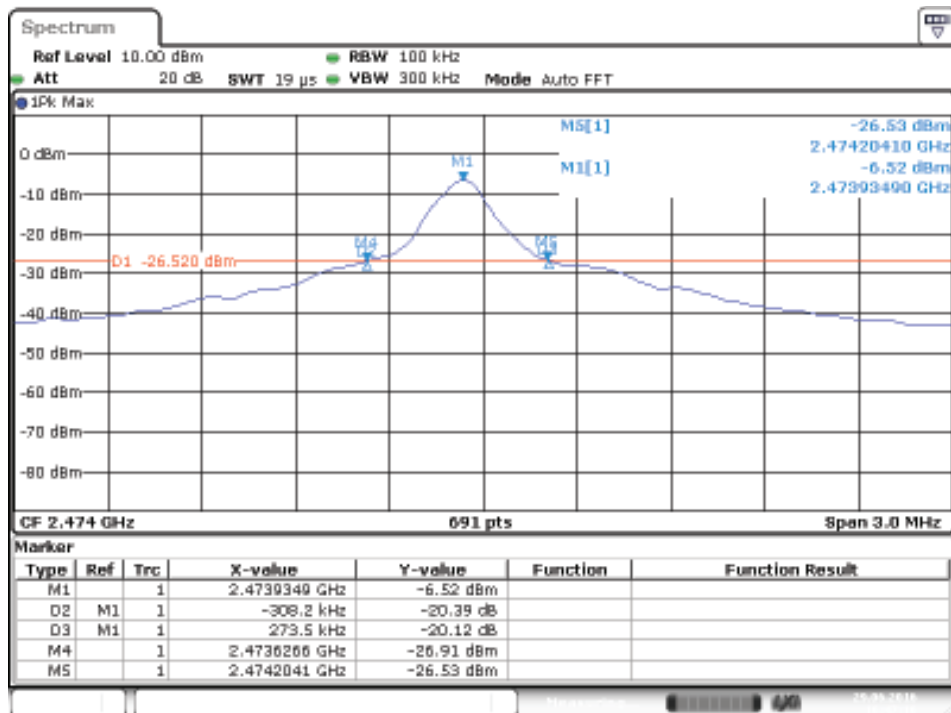
Test Plot of 20dB Bandwidth



Date: 29.JUN.2016 16:44:23

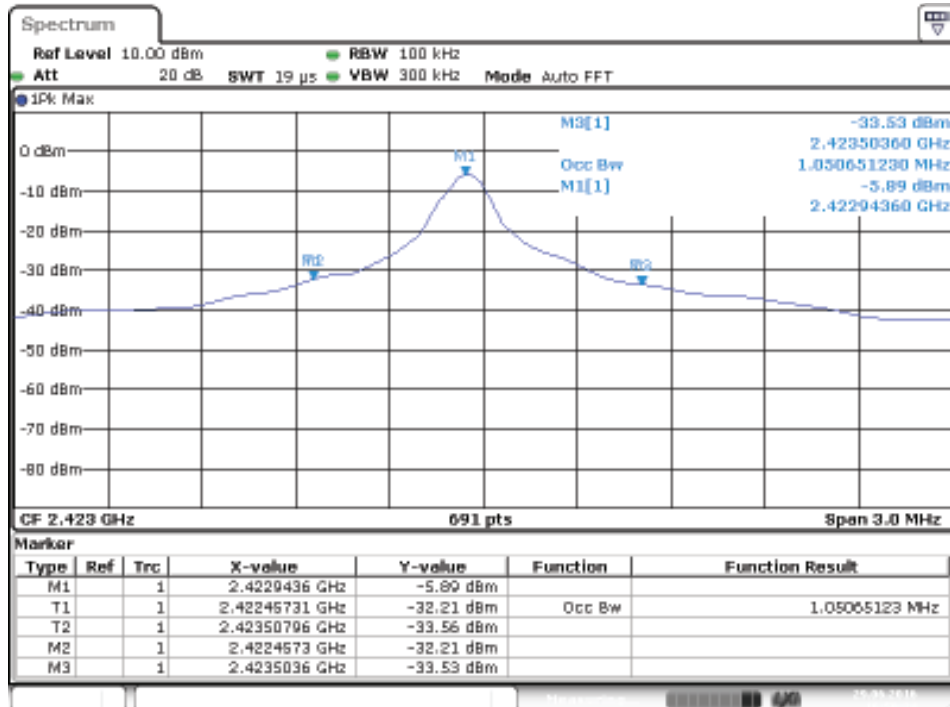


Date: 29.JUN.2016 16:45:57

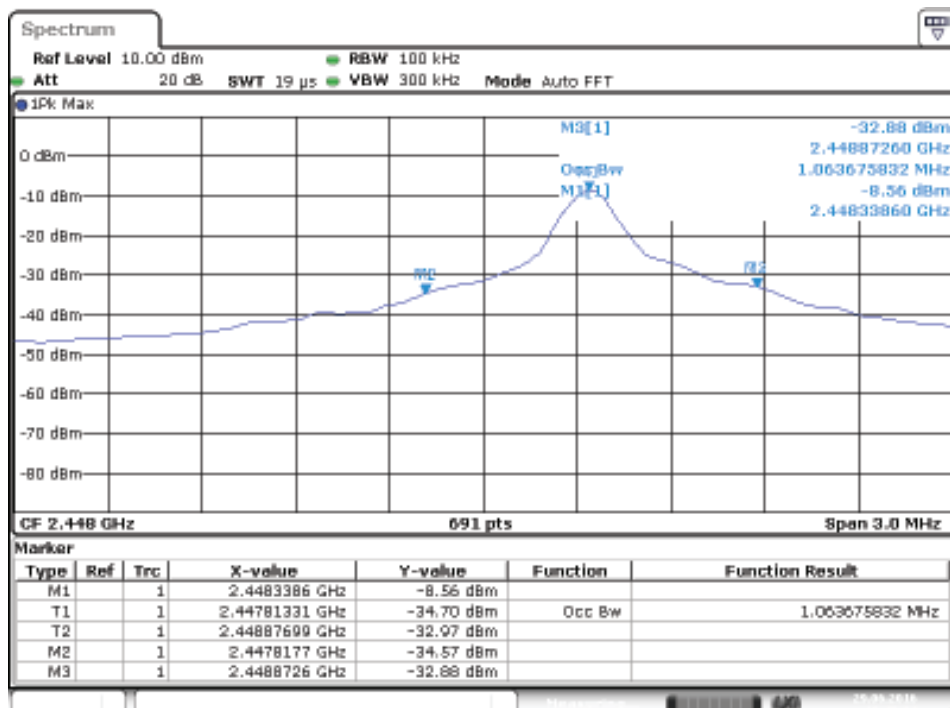


Date: 29.JUN.2016 16:47:16

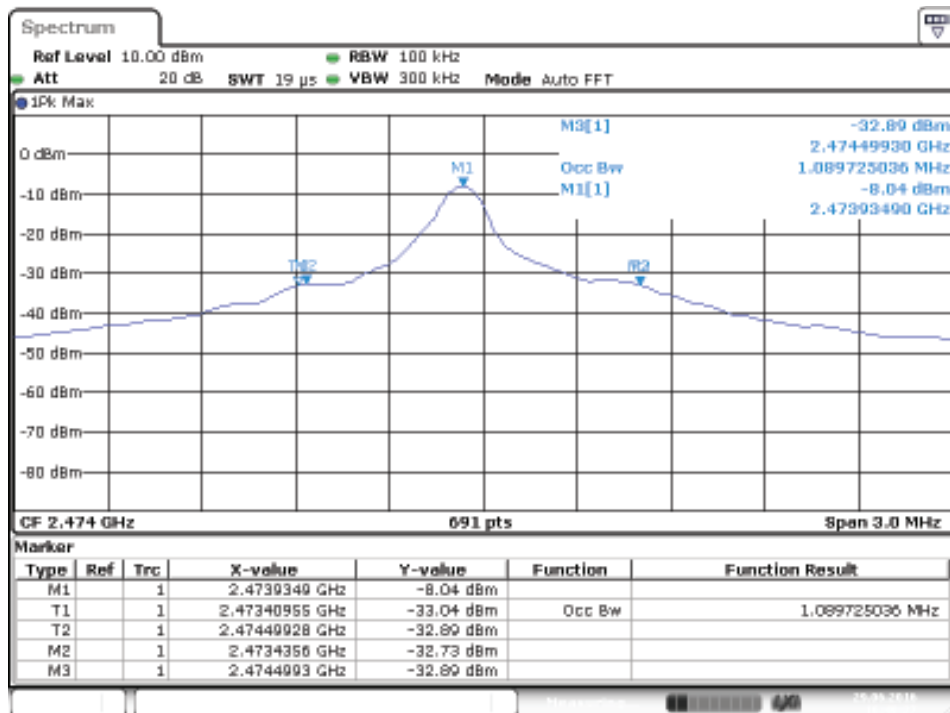
Test Plot of 99% Bandwidth



Date: 29.JUN.2016 16:50:24



Date: 29.JUN.2016 16:49:24



Date: 29.JUN.2016 16:48:27

5.1.3 Fundamental & Harmonics Radiated Emission

RESULT:
Pass

Date of testing : 2016-06-26
 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		14873.888	
T _{nom} (25°C)	Unit	(dBµV/m)	(mV/m)	(dBµV/m)	(µV/m)
	Horizontal	82.84	13.868	50.23	324.713
	Vertical	82.70	13.646	49.49	298.195
Limit		94	50	54	500

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

The worst case was shown in above Table 5.

Disturbance other than those mentioned are small or not detectable.

For details refer to following test plot.


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2315

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

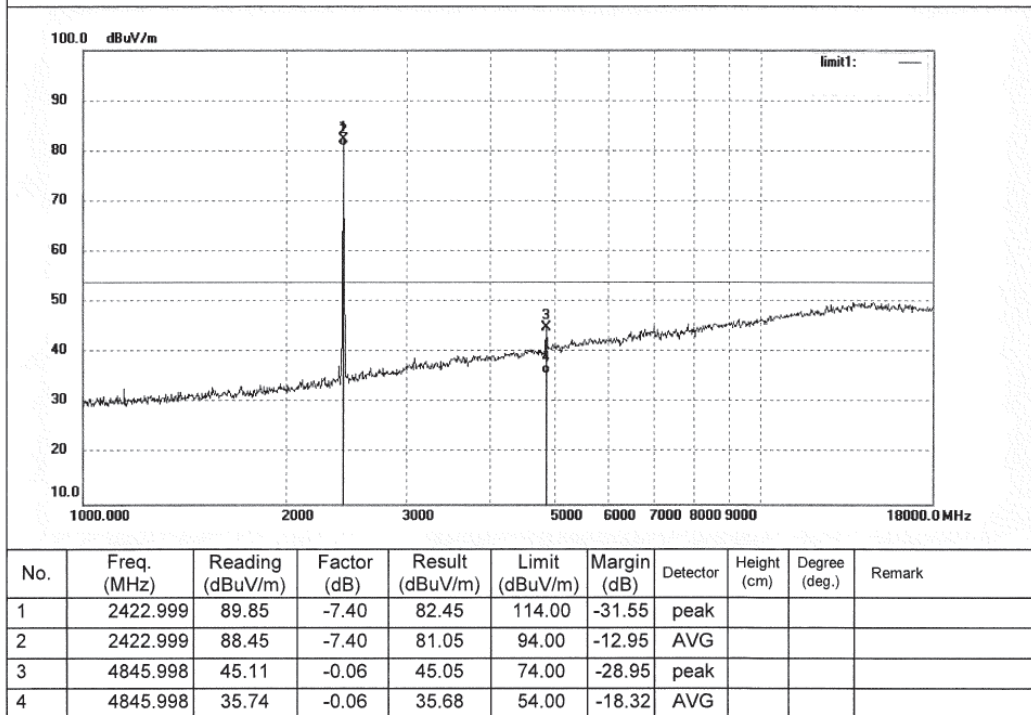
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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.: LGWADE #2314

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

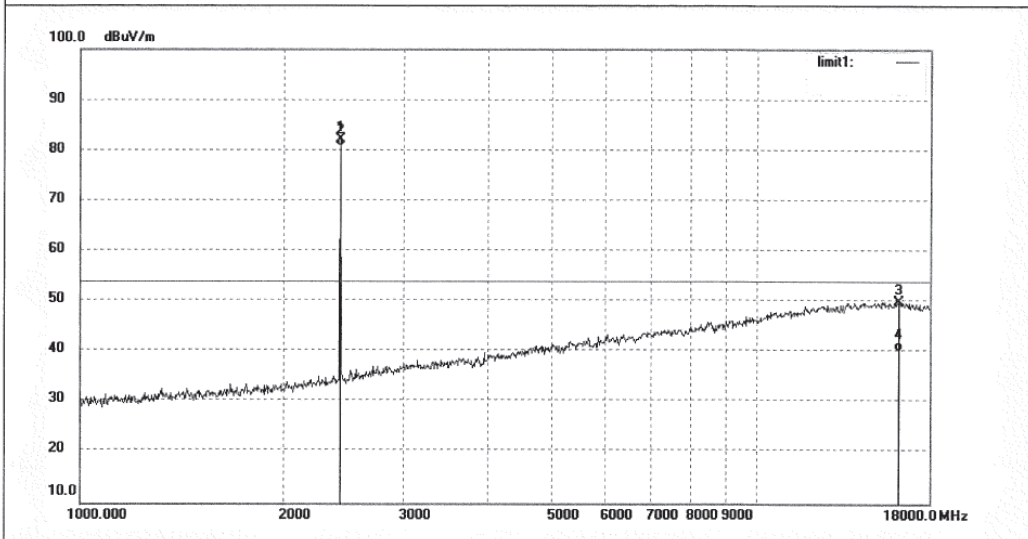
Date: 16/06/26/

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	2422.999	89.52	-7.40	82.12	114.00	-31.88	peak			
2	2422.999	88.12	-7.40	80.72	94.00	-13.28	AVG			
3	16221.189	9.71	40.13	49.84	74.00	-24.16	peak			
4	16221.189	0.23	40.13	40.36	54.00	-13.64	AVG			


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.: LGWADE #2316

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

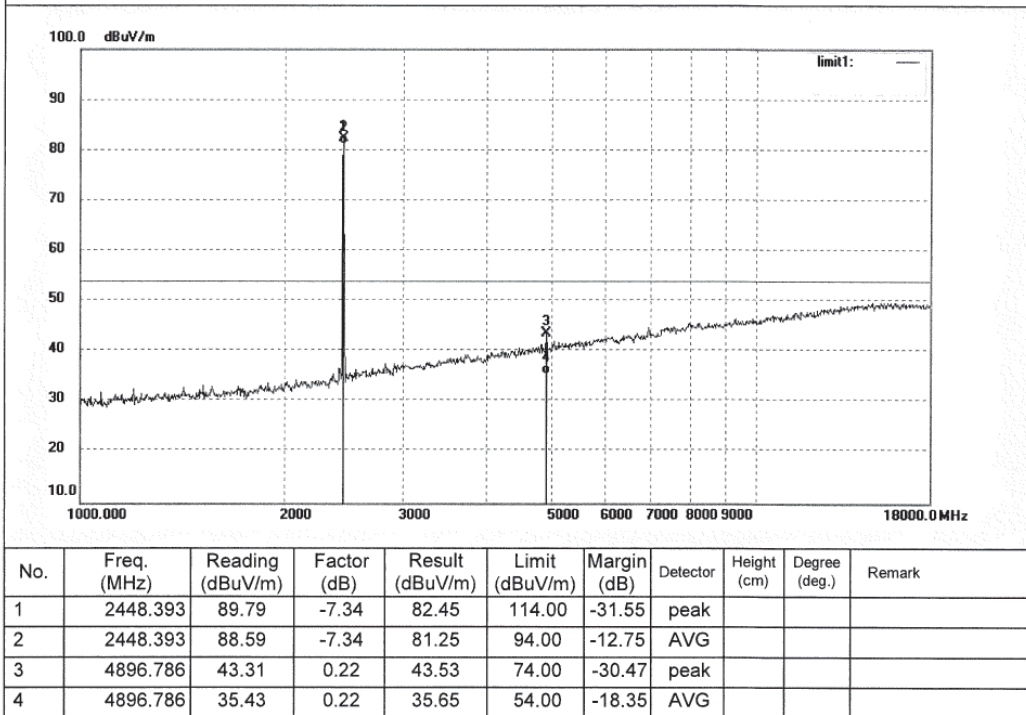
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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

Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGWADE #2317

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

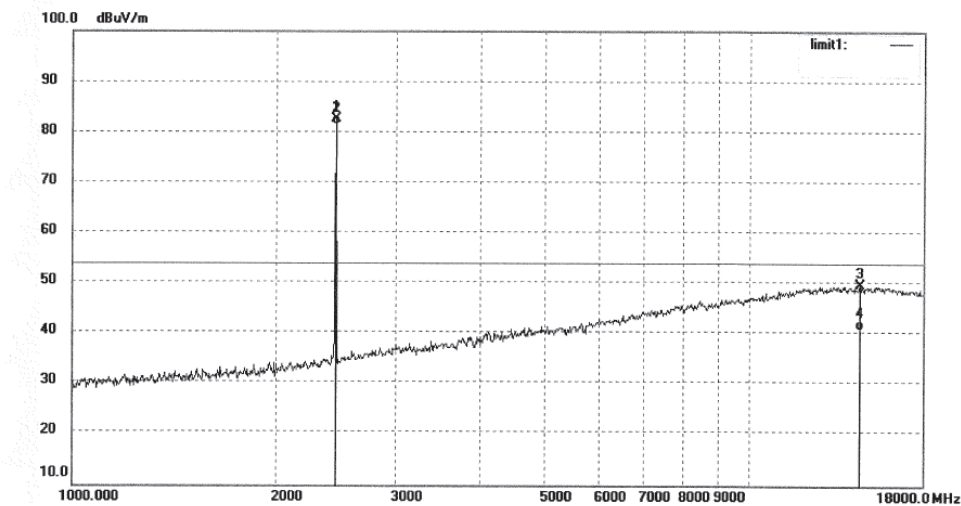
Date: 16/06/26/

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	2448.393	89.87	-7.34	82.53	114.00	-31.47	peak			
2	2448.393	88.67	-7.34	81.33	94.00	-12.67	AVG			
3	14575.975	7.24	42.37	49.61	74.00	-24.39	peak			
4	14575.975	-1.54	42.37	40.83	54.00	-13.17	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2319

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

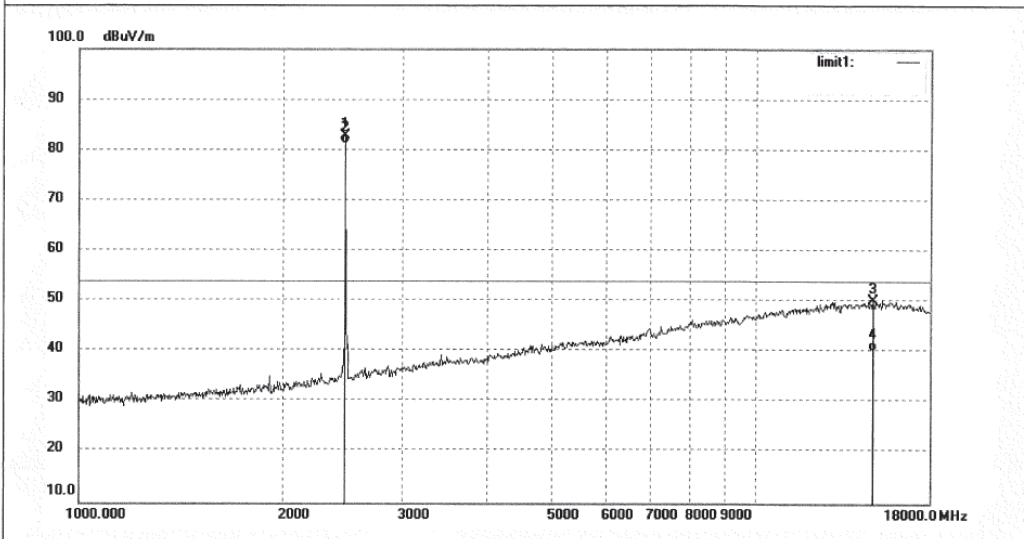
Date: 16/06/26/

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	2473.987	90.21	-7.37	82.84	114.00	-31.16	peak			
2	2473.987	88.51	-7.37	81.14	94.00	-12.86	AVG			
3	14873.888	8.75	41.48	50.23	74.00	-23.77	peak			
4	14873.888	-1.15	41.48	40.33	54.00	-13.67	AVG			


ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2318

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

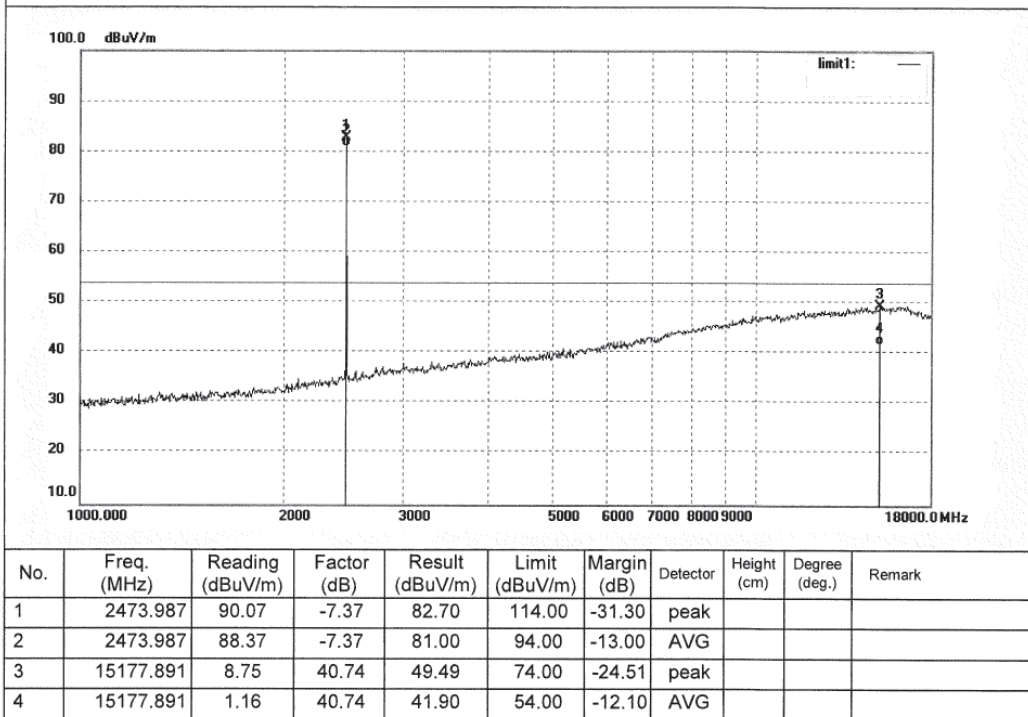
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:



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

Date of testing	:	2016-06-26
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.

Test Plot of Radiated emissions outside band

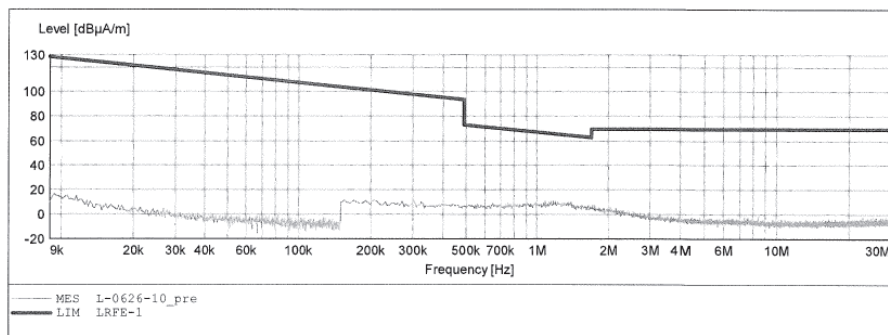
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: X
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

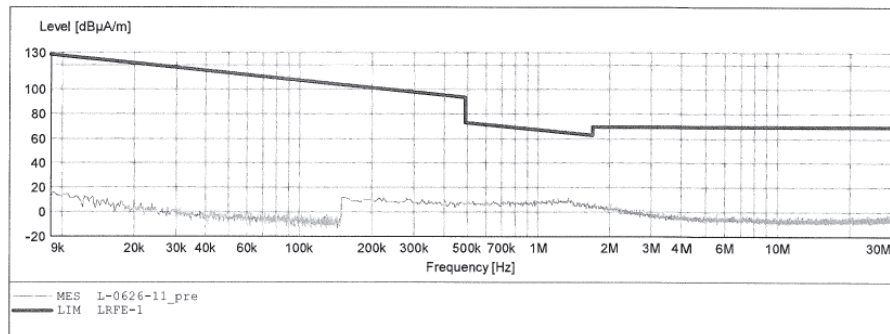


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Y
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

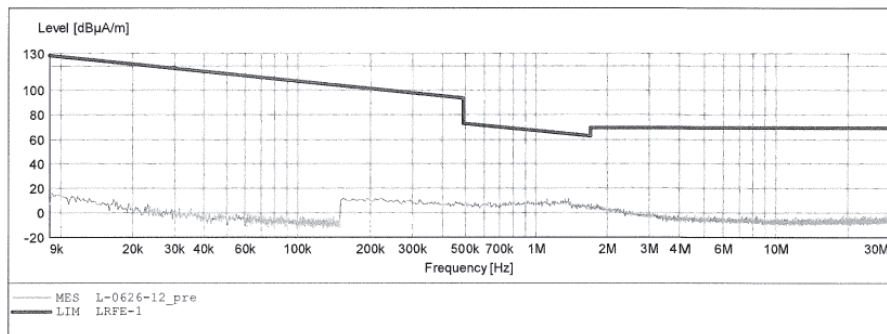


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2422.999MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Z
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

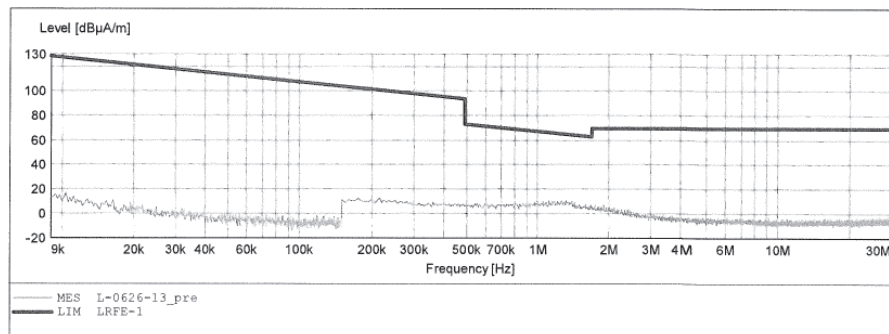


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: X
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

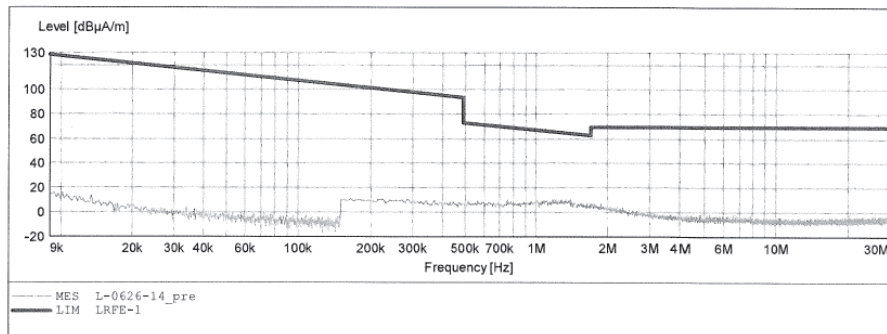


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Y
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

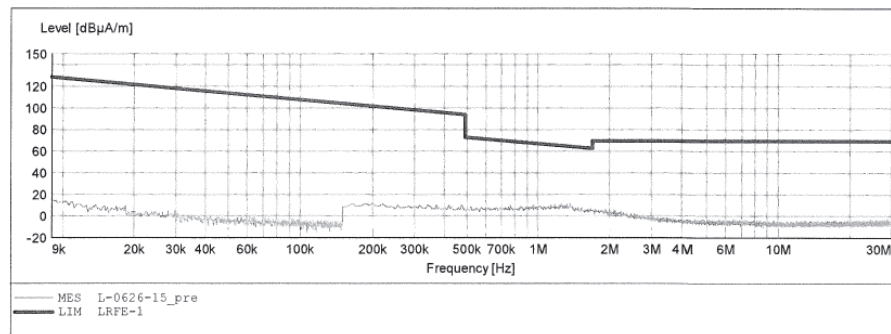


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2448.393MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Z
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

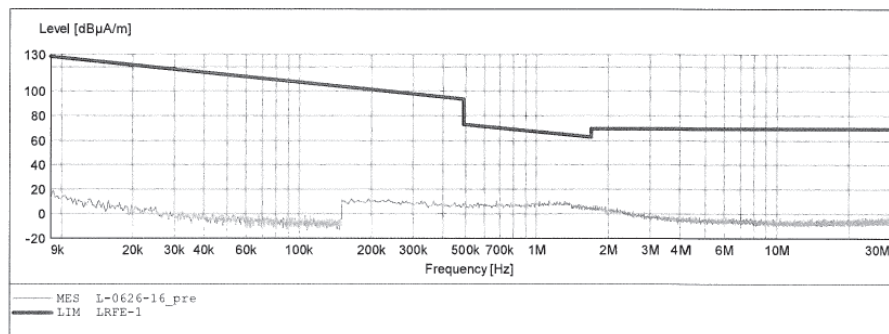


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: X
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



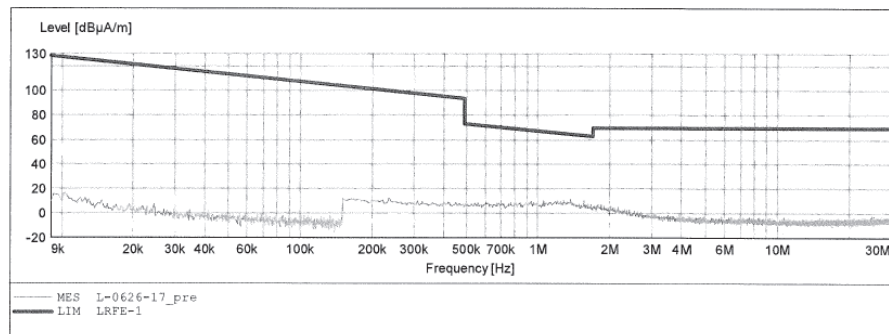
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Y
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

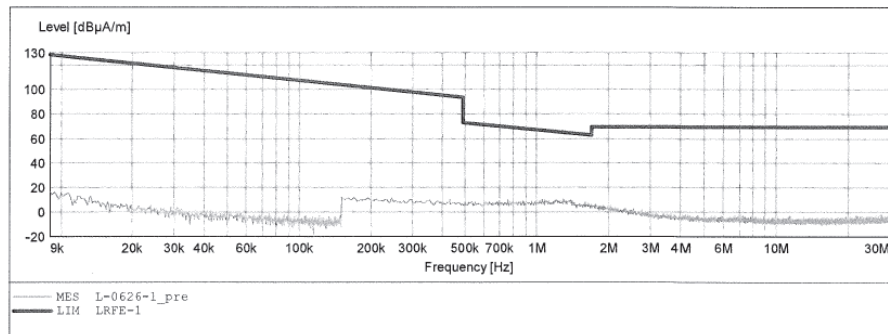


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX 2473.987MHz
 Test Site: 2# Chamber
 Operator: LGWADE
 Test Specification: DC 29V
 Comment: Z
 Start of Test: 2016-6-26 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	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




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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LGWADE #2324

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-VV-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

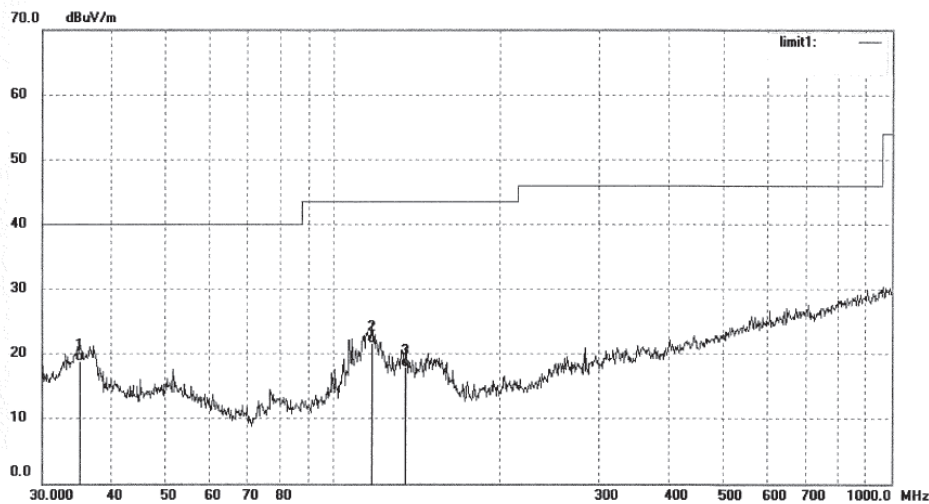
Date: 16/06/26/

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	35.0048	29.23	-10.42	18.81	40.00	-21.19	QP			
2	116.9495	34.84	-13.15	21.69	43.50	-21.81	QP			
3	135.0319	31.98	-14.08	17.90	43.50	-25.60	QP			


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Site: 2# Chamber

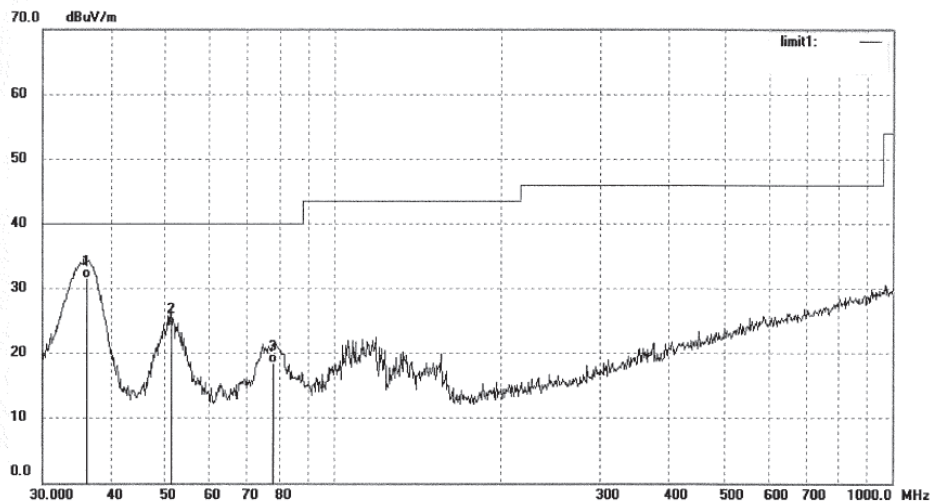
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2325
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2422.999MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 29V
Date: 16/06/26/
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	36.1272	42.23	-10.68	31.55	40.00	-8.45	QP			
2	51.1208	36.98	-12.69	24.29	40.00	-15.71	QP			
3	77.5927	35.08	-16.63	18.45	40.00	-21.55	QP			


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Job No.: LGWADE #2327

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

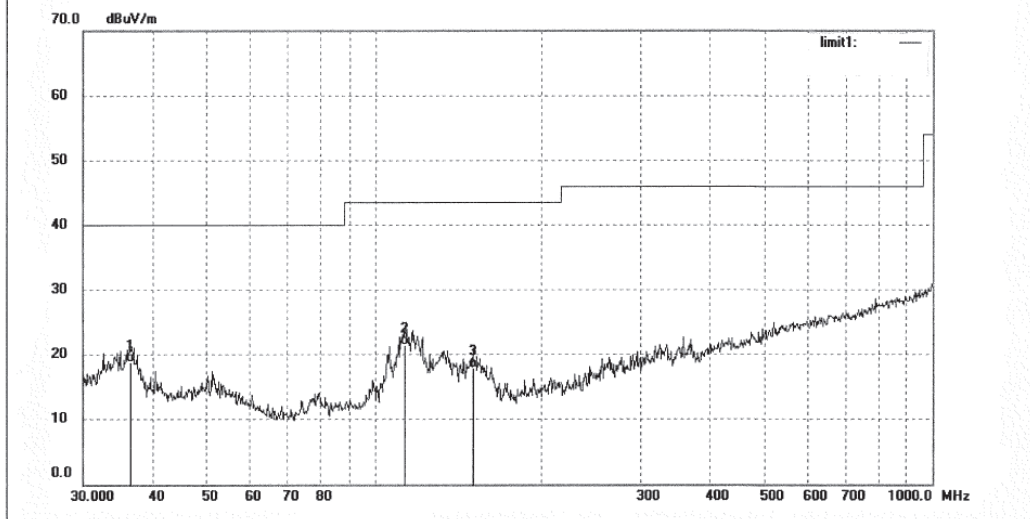
Date: 16/06/26/

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	36.6375	29.57	-10.78	18.79	40.00	-21.21	QP			
2	113.3162	34.80	-13.41	21.39	43.50	-22.11	QP			
3	150.5378	33.12	-15.16	17.96	43.50	-25.54	QP			


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Site: 2# Chamber

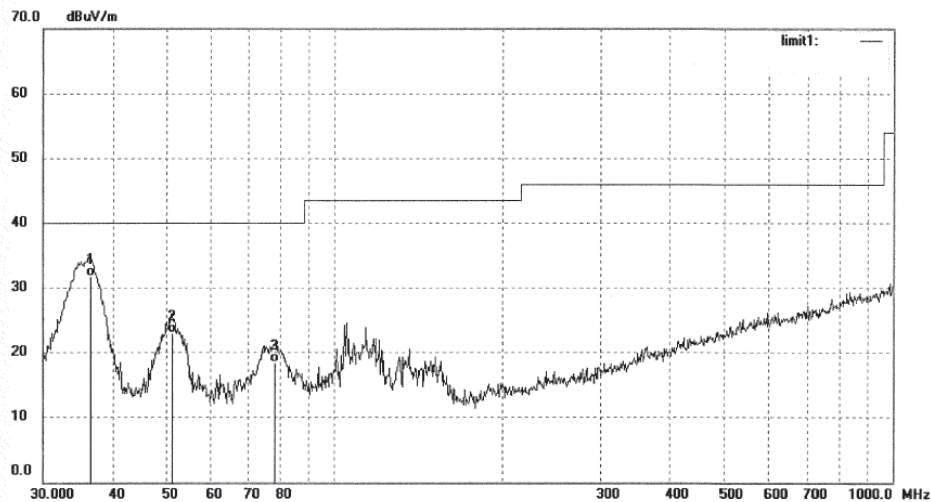
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2326
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2448.393MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 29V
Date: 16/06/26/
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	36.5091	42.55	-10.75	31.80	40.00	-8.20	QP			
2	51.3004	35.77	-12.70	23.07	40.00	-16.93	QP			
3	78.1389	35.02	-16.61	18.41	40.00	-21.59	QP			


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Site: 2# Chamber

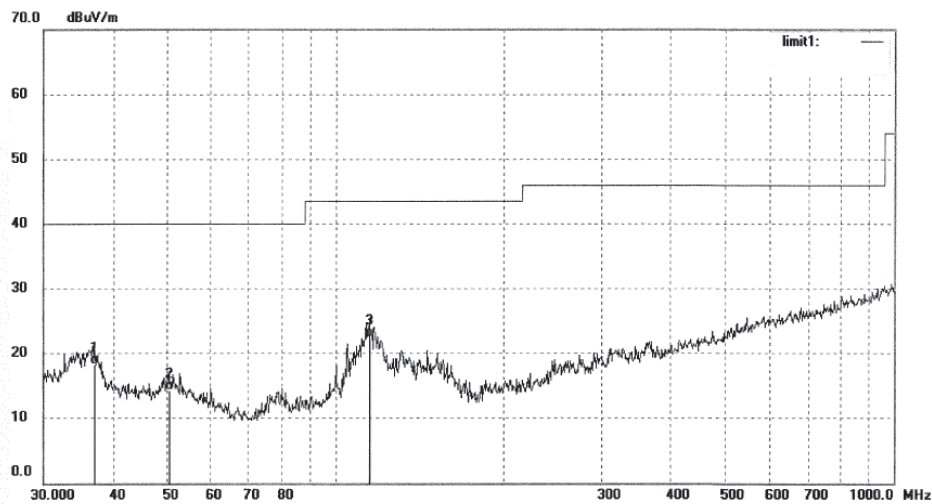
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2328
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2473.987MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Horizontal
Power Source: DC 29V
Date: 16/06/26/
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	37.0248	29.10	-10.87	18.23	40.00	-21.77	QP			
2	50.4089	26.92	-12.64	14.28	40.00	-25.72	QP			
3	115.3204	35.60	-13.15	22.45	43.50	-21.05	QP			


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Job No.: LGWADE #2329

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

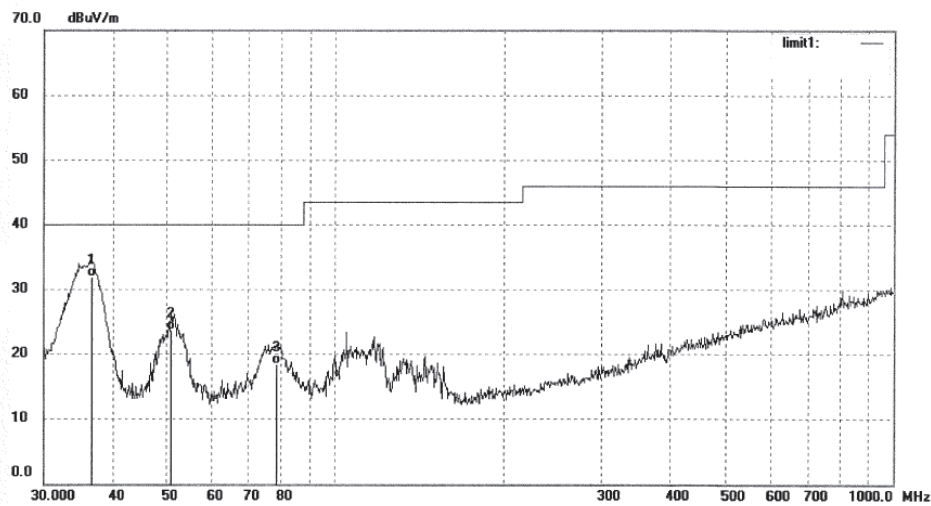
Date: 16/06/26/

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	36.5091	42.70	-10.75	31.95	40.00	-8.05	QP			
2	50.7637	36.29	-12.66	23.63	40.00	-16.37	QP			
3	78.4133	35.06	-16.60	18.46	40.00	-21.54	QP			


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Job No.: LGWADE #2315

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

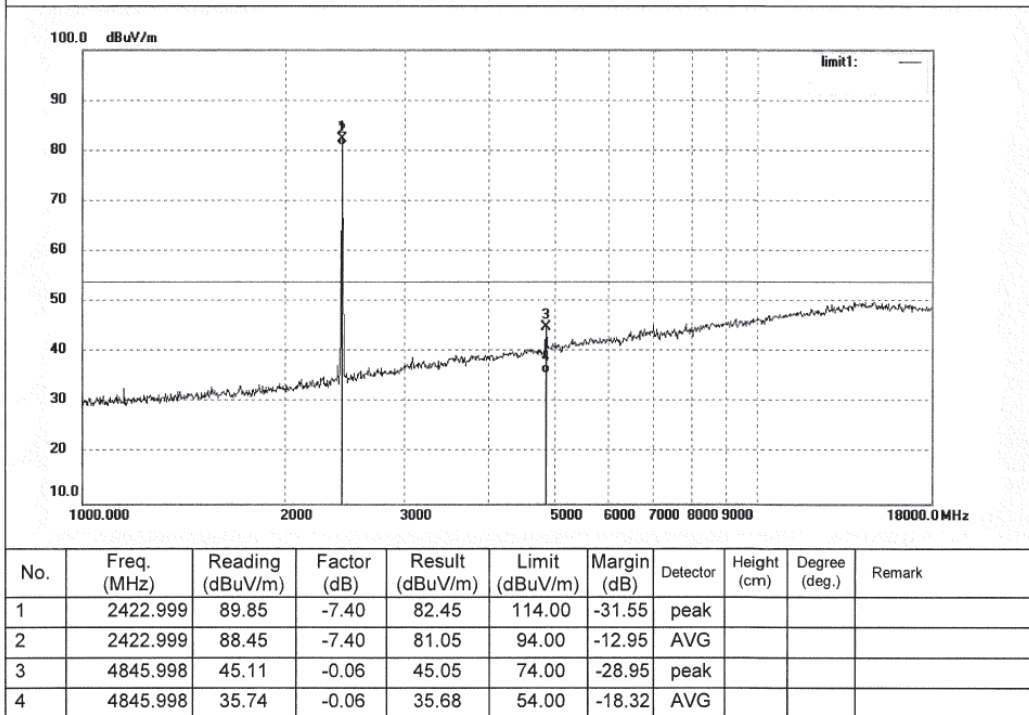
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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Fax:+86-0755-26503396

Job No.: LGWADE #2314

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

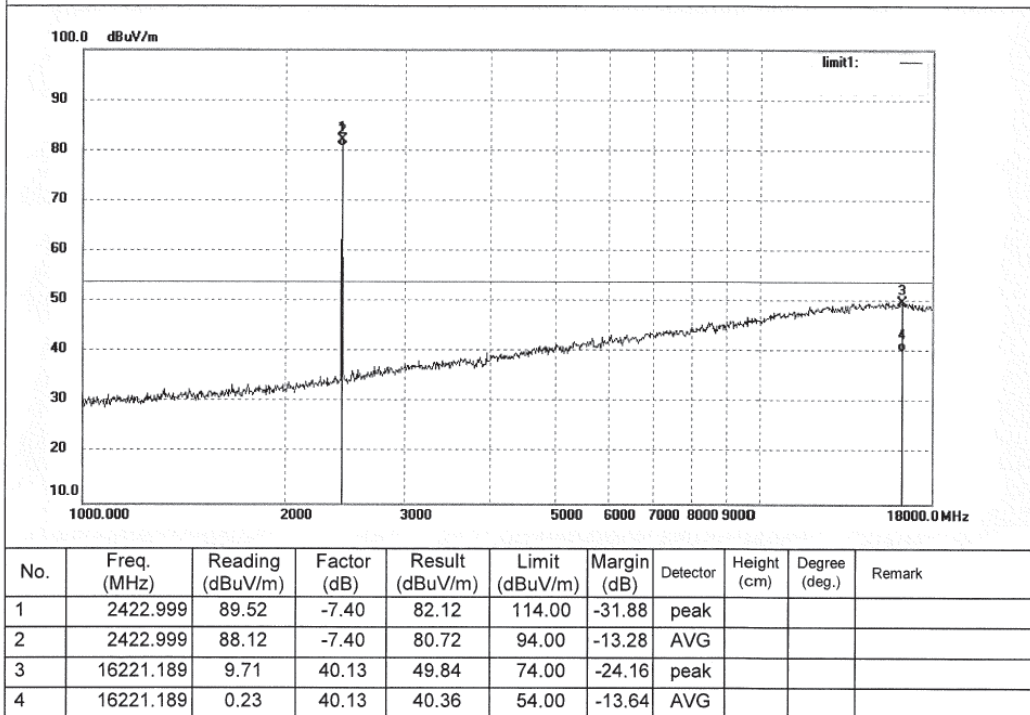
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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Fax:+86-0755-26503396

Job No.: LGWADE #2316

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

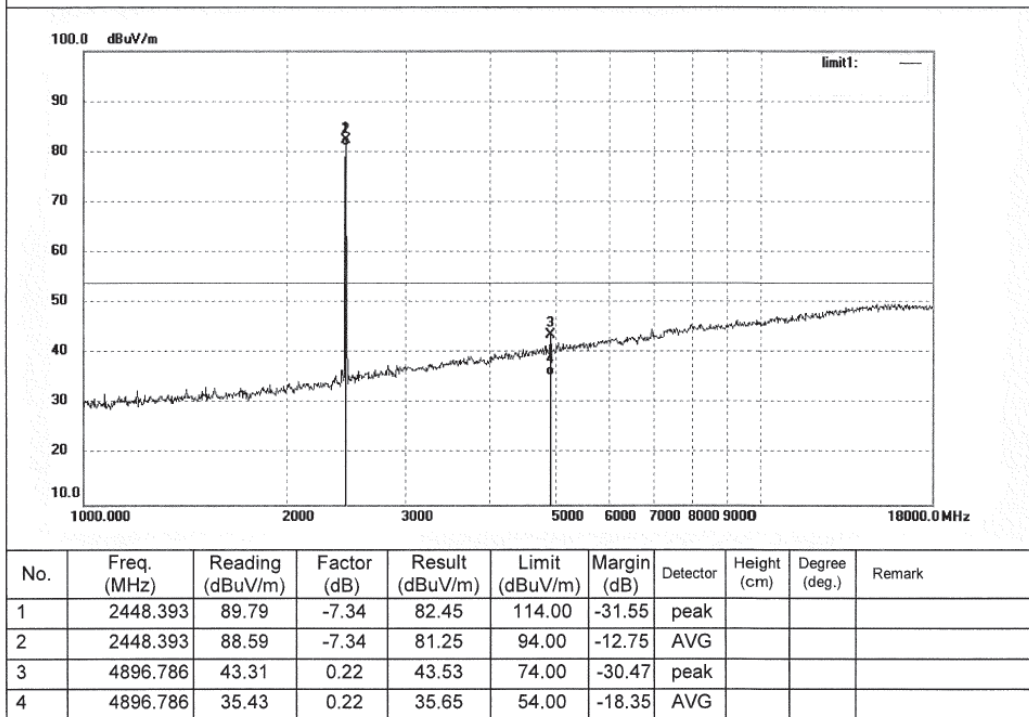
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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Fax:+86-0755-26503396

Job No.: LGWADE #2317

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-VV-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

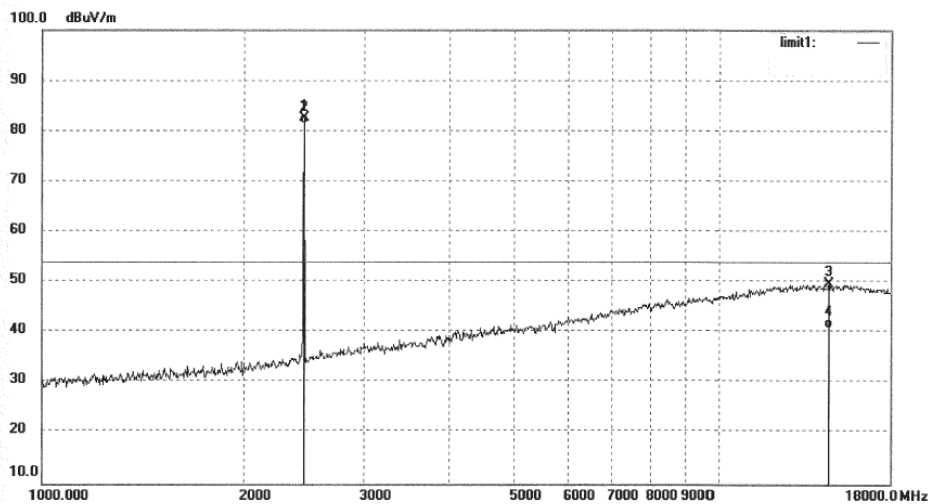
Date: 16/06/26/

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	2448.393	89.87	-7.34	82.53	114.00	-31.47	peak			
2	2448.393	88.67	-7.34	81.33	94.00	-12.67	AVG			
3	14575.975	7.24	42.37	49.61	74.00	-24.39	peak			
4	14575.975	-1.54	42.37	40.83	54.00	-13.17	AVG			


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Job No.: LGWADE #2319

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

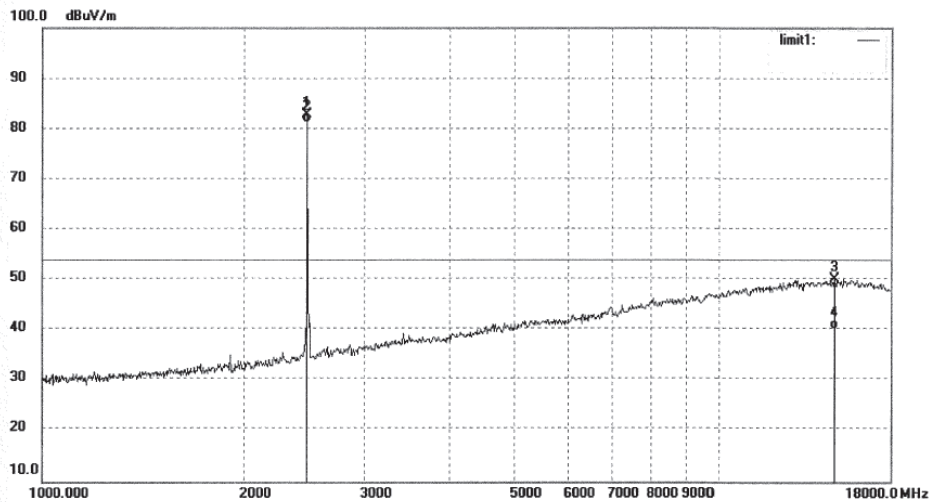
Date: 16/06/26/

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	2473.987	90.21	-7.37	82.84	114.00	-31.16	peak			
2	2473.987	88.51	-7.37	81.14	94.00	-12.86	AVG			
3	14873.888	8.75	41.48	50.23	74.00	-23.77	peak			
4	14873.888	-1.15	41.48	40.33	54.00	-13.67	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2318

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

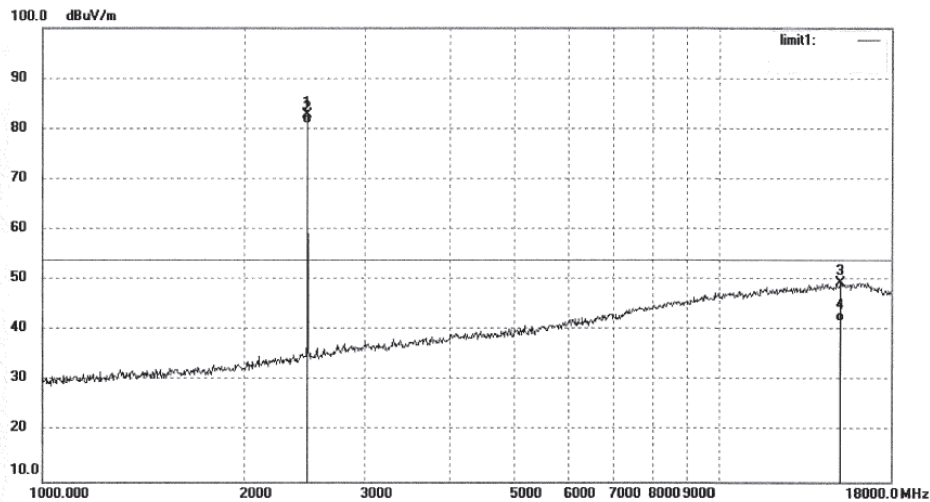
Date: 16/06/26/

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	2473.987	90.07	-7.37	82.70	114.00	-31.30	peak			
2	2473.987	88.37	-7.37	81.00	94.00	-13.00	AVG			
3	15177.891	8.75	40.74	49.49	74.00	-24.51	peak			
4	15177.891	1.16	40.74	41.90	54.00	-12.10	AVG			


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Fax:+86-0755-26503396

Job No.: LGWADE #2308

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

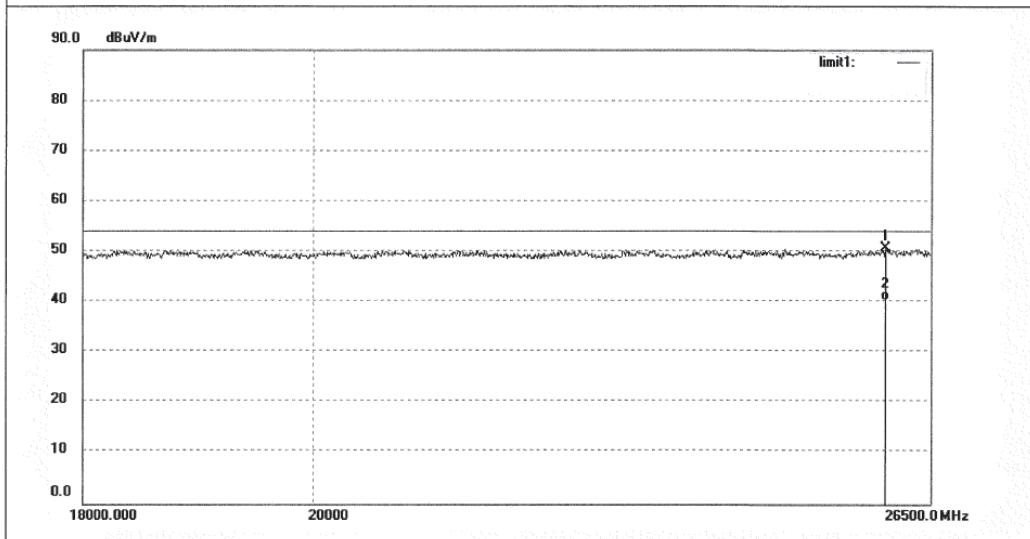
Date: 16/06/26/

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	25962.307	34.15	16.50	50.65	74.00	-23.35	peak			
2	25962.307	23.83	16.50	40.33	54.00	-13.67	AVG			


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Job No.: LGWADE #2309

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2422.999MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

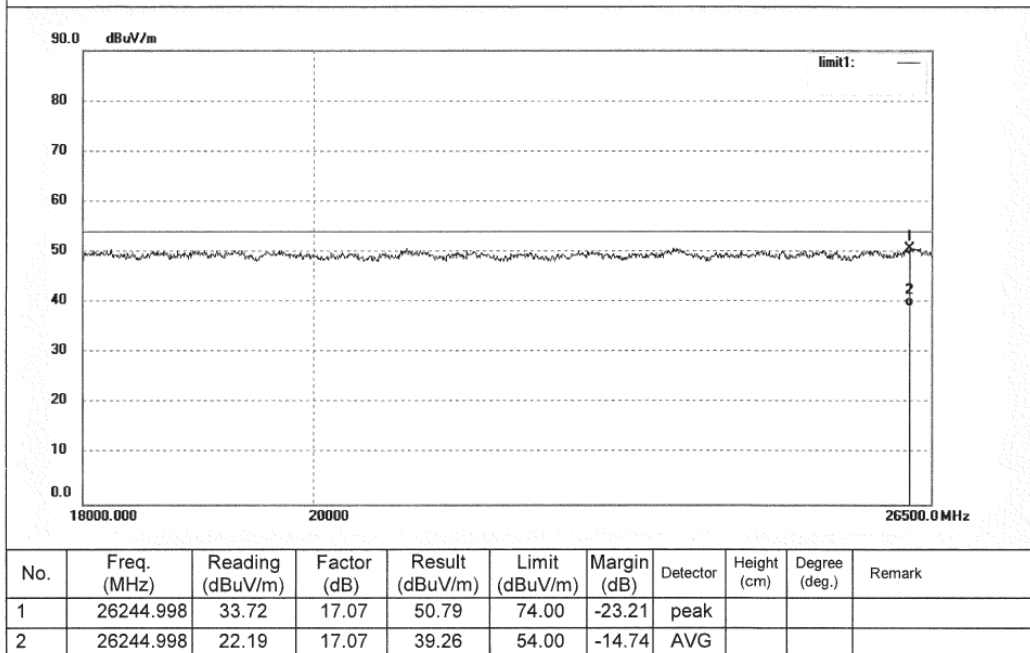
Date: 16/06/26/

Time:

Engineer Signature: LGWADE

Distance: 3m

Note:




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Fax:+86-0755-26503396

Job No.: LGWADE #2311

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Horizontal

Power Source: DC 29V

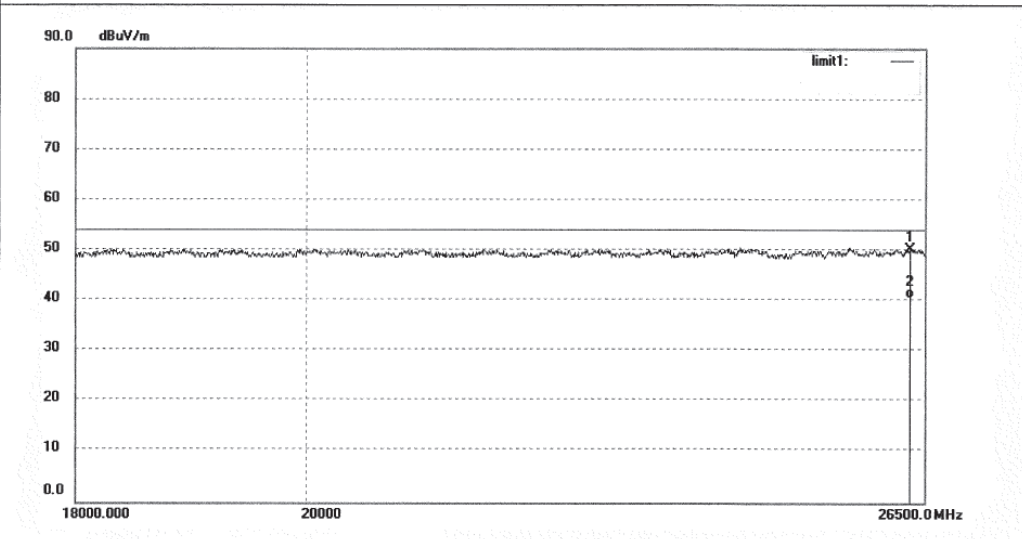
Date: 16/06/26/

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	26326.330	33.89	16.50	50.39	74.00	-23.61	peak			
2	26326.330	24.16	16.50	40.66	54.00	-13.34	AVG			

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Job No.: LGWADE #2310

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2448.393MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

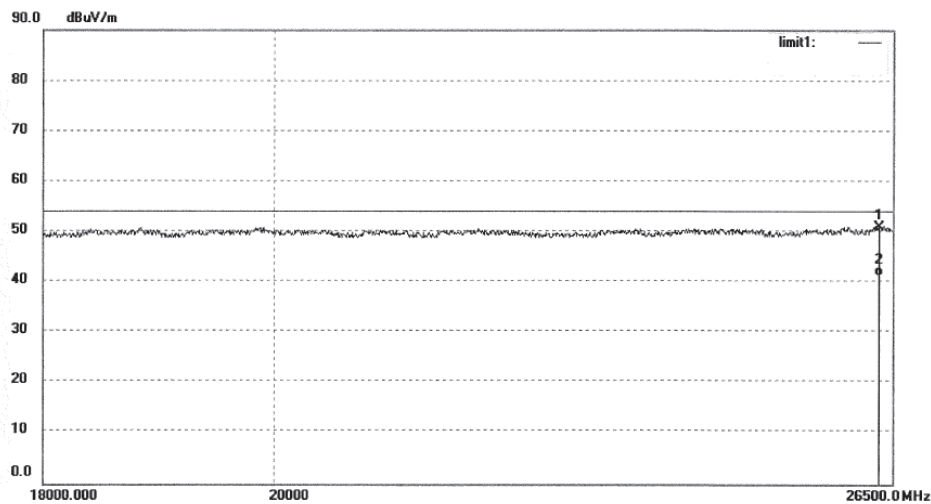
Date: 16/06/26/

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	26346.703	34.00	17.00	51.00	74.00	-23.00	peak			
2	26346.703	24.25	17.00	41.25	54.00	-12.75	AVG			

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Site: 2# Chamber

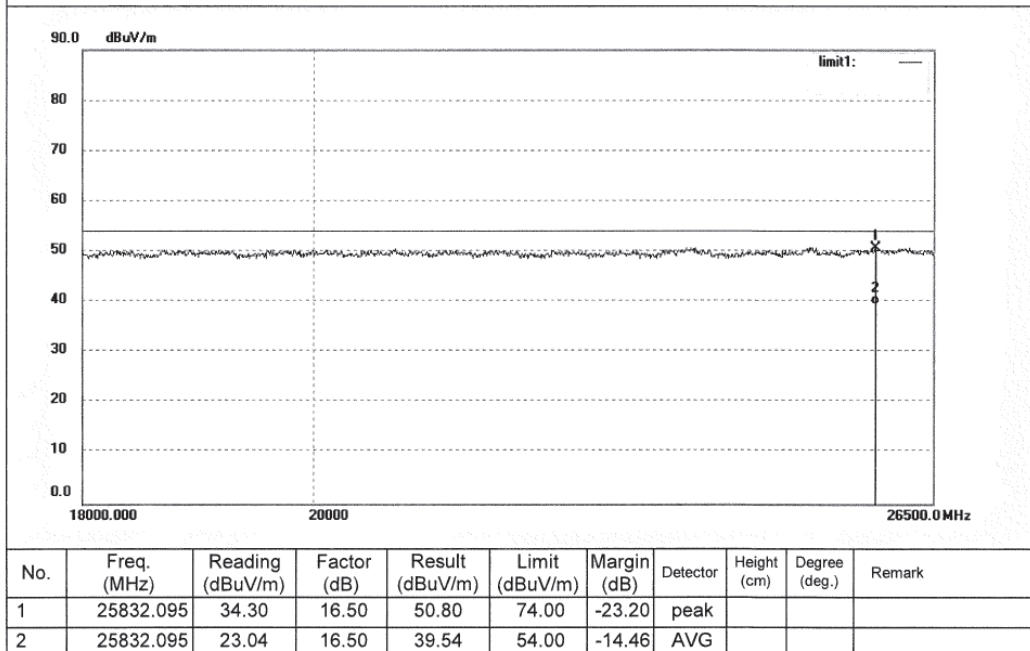
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2312
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2473.987MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Horizontal
Power Source: DC 29V
Date: 16/06/26/
Time:
Engineer Signature: LGWADE
Distance: 3m

Note:




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Job No.: LGWADE #2313

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Control box

Mode: TX 2473.987MHz

Model: MC220-M32-W-N0

Manufacturer: Limoss

Polarization: Vertical

Power Source: DC 29V

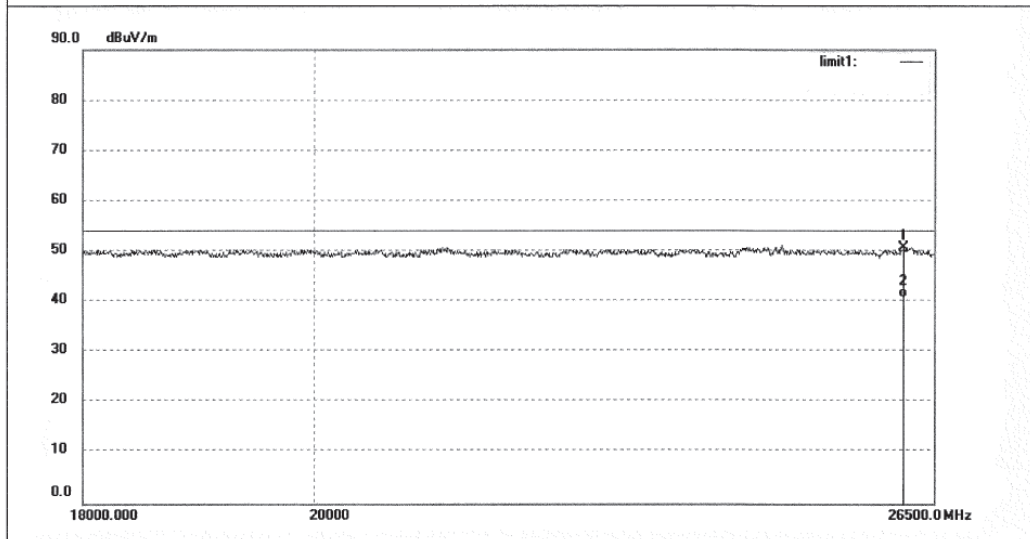
Date: 16/06/26/

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	26143.685	33.59	17.14	50.73	74.00	-23.27	peak			
2	26143.685	23.74	17.14	40.88	54.00	-13.12	AVG			

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Test Plot of Frequency Band Edge


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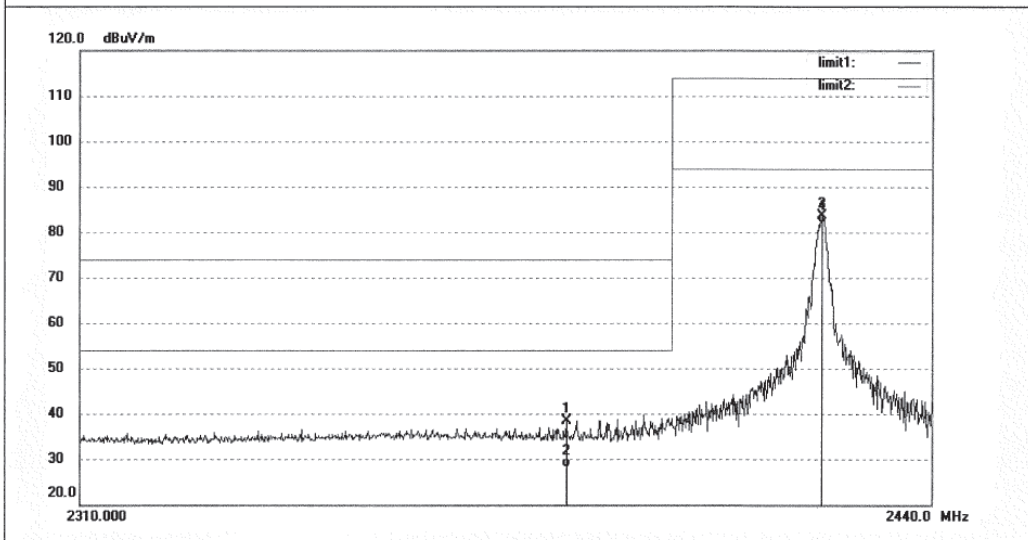
Site: 2# Chamber

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

Job No.: LGWADE #2323
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2422.999MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Horizontal
Power Source: DC 29V
Date: 16/06/26/
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	2383.580	45.93	-7.57	38.36	74.00	-35.64	peak			
2	2383.580	35.69	-7.57	28.12	54.00	-25.88	AVG			
3	2422.999	91.04	-7.40	83.64	114.00	-30.36	peak			
4	2422.999	89.64	-7.40	82.24	94.00	-11.76	AVG			


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Site: 2# Chamber

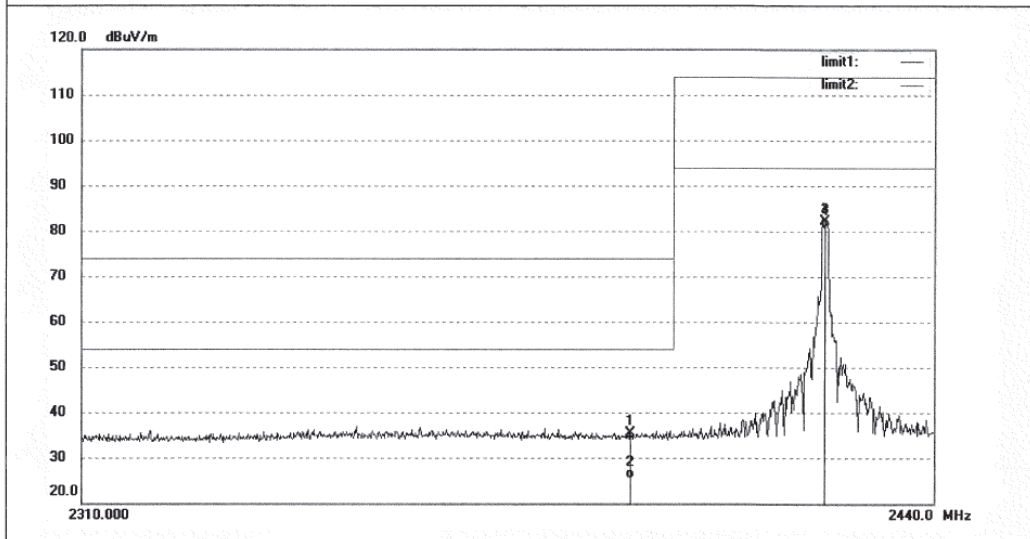
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2322
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2422.999MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 29V
Date: 16/06/26/
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	2393.200	42.89	-7.51	35.38	74.00	-38.62	peak			
2	2393.200	32.82	-7.51	25.31	54.00	-28.69	AVG			
3	2422.999	89.60	-7.40	82.20	114.00	-31.80	peak			
4	2422.999	88.20	-7.40	80.80	94.00	-13.20	AVG			


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Site: 2# Chamber

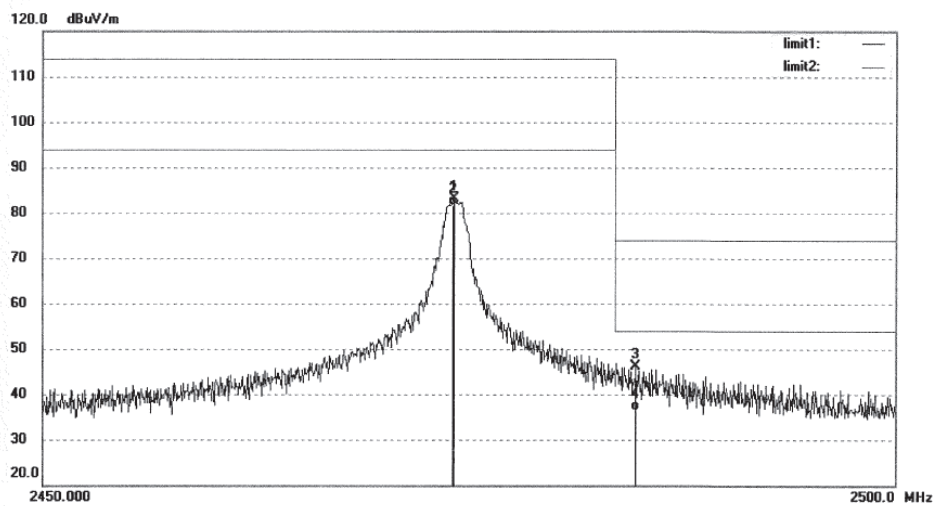
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2320
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2473.987MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Horizontal
Power Source: DC 29V
Date: 16/06/26/
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	2473.987	90.61	-7.37	83.24	114.00	-30.76	peak			
2	2473.987	88.91	-7.37	81.54	94.00	-12.46	AVG			
3	2484.750	53.51	-7.38	46.13	74.00	-27.87	peak			
4	2484.750	43.67	-7.38	36.29	54.00	-17.71	AVG			


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Site: 2# Chamber

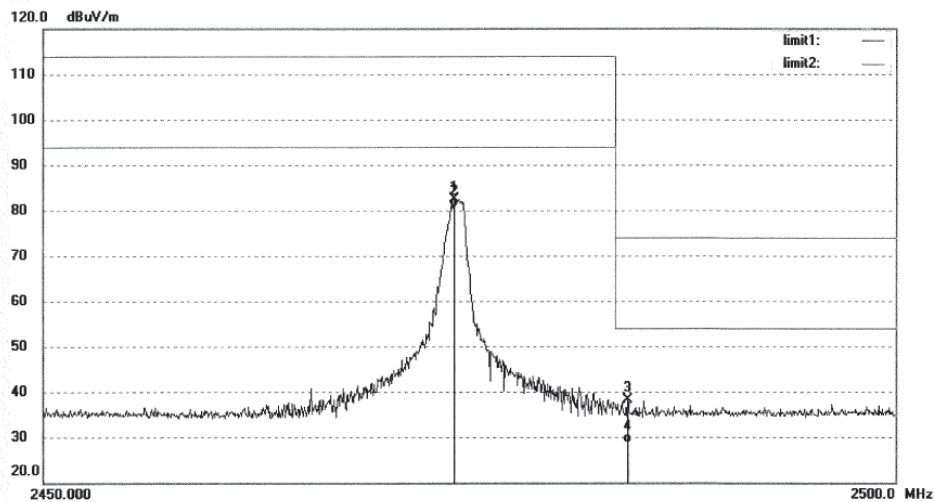
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGWADE #2321
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Control box
Mode: TX 2473.987MHz
Model: MC220-M32-W-N0
Manufacturer: Limoss

Polarization: Vertical
Power Source: DC 29V
Date: 16/06/26/
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	2473.987	89.70	-7.37	82.33	114.00	-31.67	peak			
2	2473.987	88.00	-7.37	80.63	94.00	-13.37	AVG			
3	2484.250	45.46	-7.38	38.08	74.00	-35.92	peak			
4	2484.250	35.93	-7.38	28.55	54.00	-25.45	AVG			

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5.1.5 Conducted emissions

RESULT:**Pass**

Date of testing	:	2016-06-18
Test standard	:	FCC Part 15.207 RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.10: 2013
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.207 Table 3 of RSS-Gen
Kind of test site	:	Shield room

Test setup

Input Voltage	:	AC 120V, 60Hz
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	22°C
Relative humidity	:	55%
Atmospheric pressure	:	101kPa

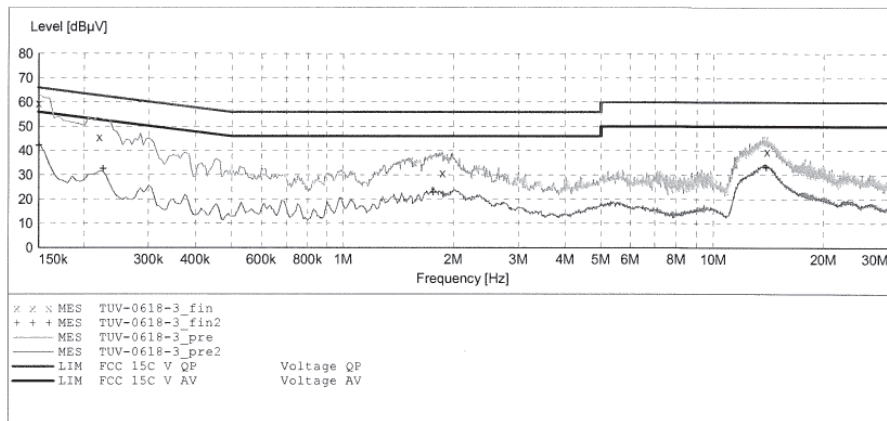
For details refer to following test plot.

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

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: L 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/18/2016 /

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

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


MEASUREMENT RESULT: "TUV-0618-3_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	59.50	10.5	66	6.5	QP	L1	GND
0.220000	45.60	10.6	63	17.2	QP	L1	GND
1.870000	30.80	11.0	56	25.2	QP	L1	GND
13.990000	39.70	11.4	60	20.3	QP	L1	GND

MEASUREMENT RESULT: "TUV-0618-3_fin2"

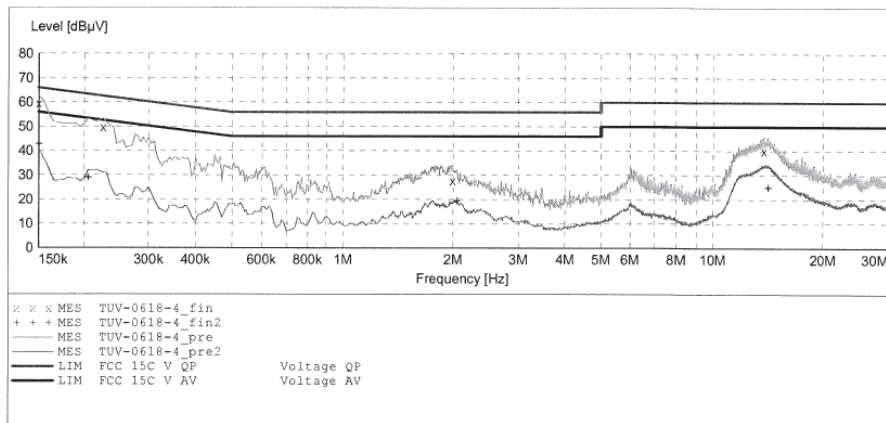
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	42.10	10.5	56	13.9	AV	L1	GND
0.225000	32.50	10.6	53	20.1	AV	L1	GND
1.760000	22.70	11.0	46	23.3	AV	L1	GND
13.885000	33.00	11.4	50	17.0	AV	L1	GND

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

EUT: Control box M/N:MC220-M32-W-N0
 Manufacturer: Limoss
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: WADE
 Test Specification: N 120V/60Hz
 Comment: Mains Port
 Start of Test: 6/18/2016 /

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

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


MEASUREMENT RESULT: "TUV-0618-4_fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	59.40	10.5	66	6.6	QP	N	GND
0.225000	49.70	10.6	63	12.9	QP	N	GND
1.995000	27.60	11.0	56	28.4	QP	N	GND
13.780000	40.00	11.3	60	20.0	QP	N	GND

MEASUREMENT RESULT: "TUV-0618-4_fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	42.70	10.5	56	13.3	AV	N	GND
0.205000	28.90	10.5	53	24.5	AV	N	GND
2.050000	19.40	11.0	46	26.6	AV	N	GND
14.140000	24.90	11.4	50	25.1	AV	N	GND

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

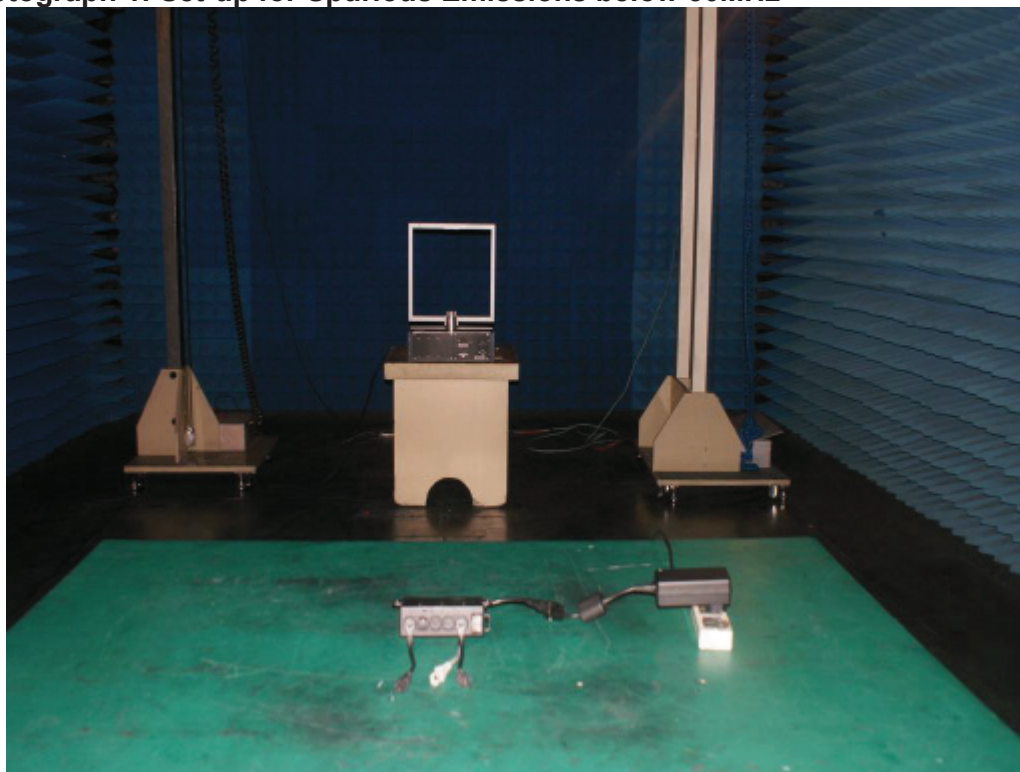
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v06

The maximum output power of the transmitter is 0.058mW (-12.39dBm) only, which less than 309mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

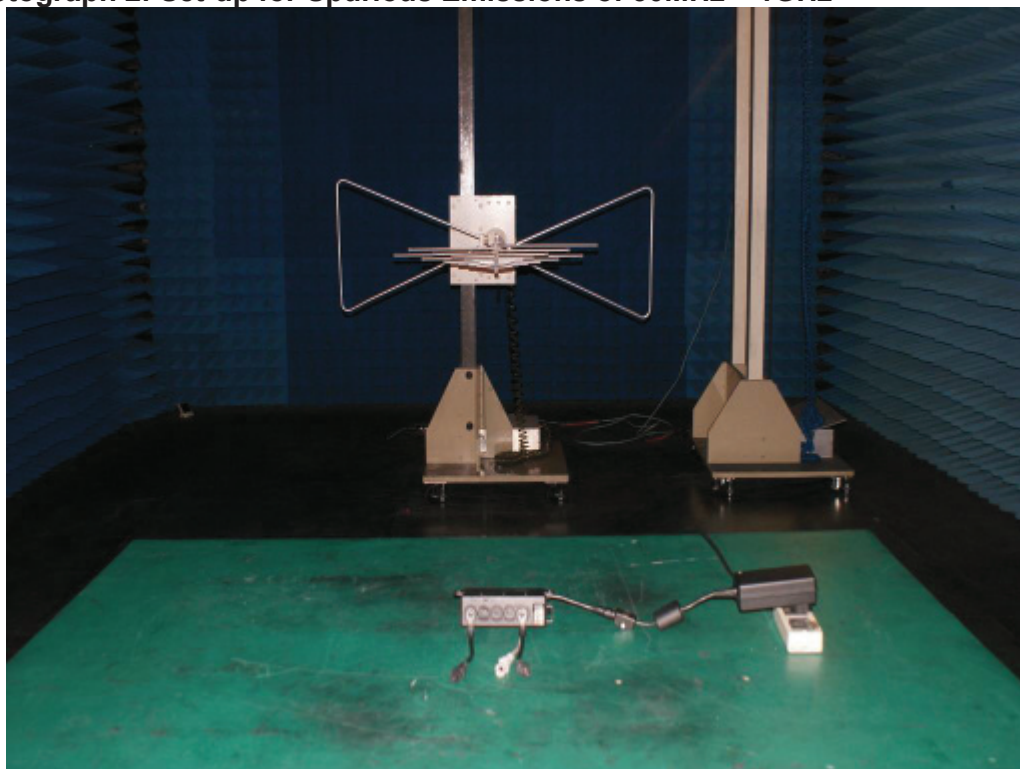
Since maximum output power of the transmitter is $0.058\text{mW} < 1496\text{mW}$, and the distance from EUT to human is $\geq 200\text{mm}$, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v06.

7. Photographs of the Test Set-Up

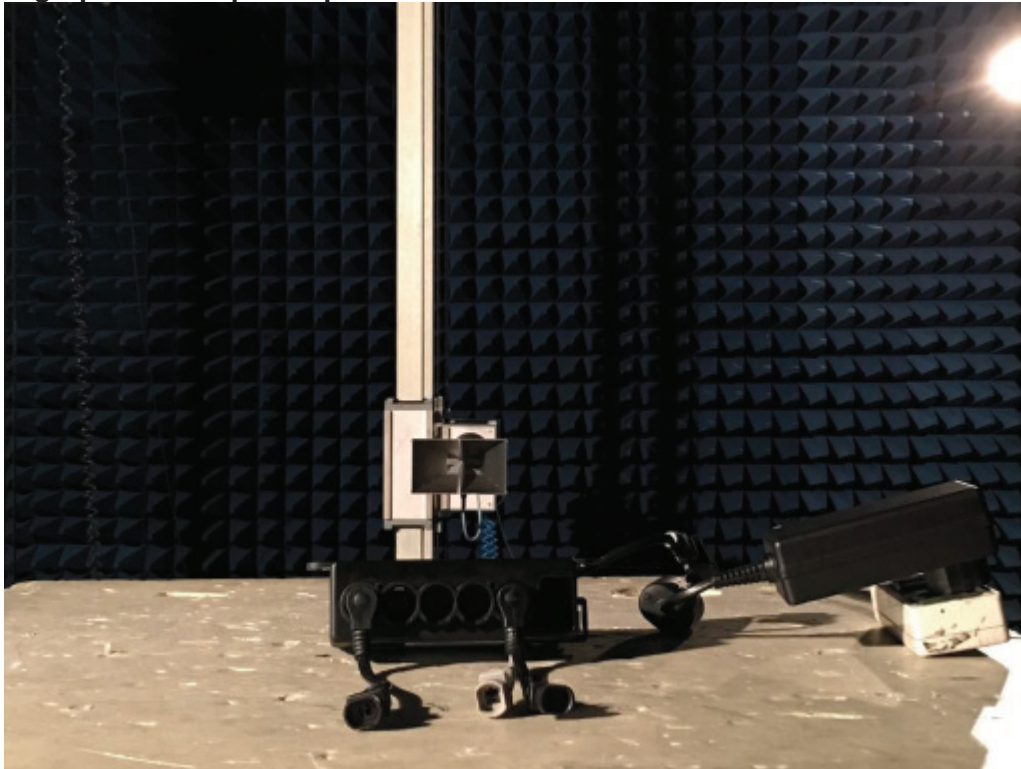
Photograph 1: Set-up for Spurious Emissions below 30MHz



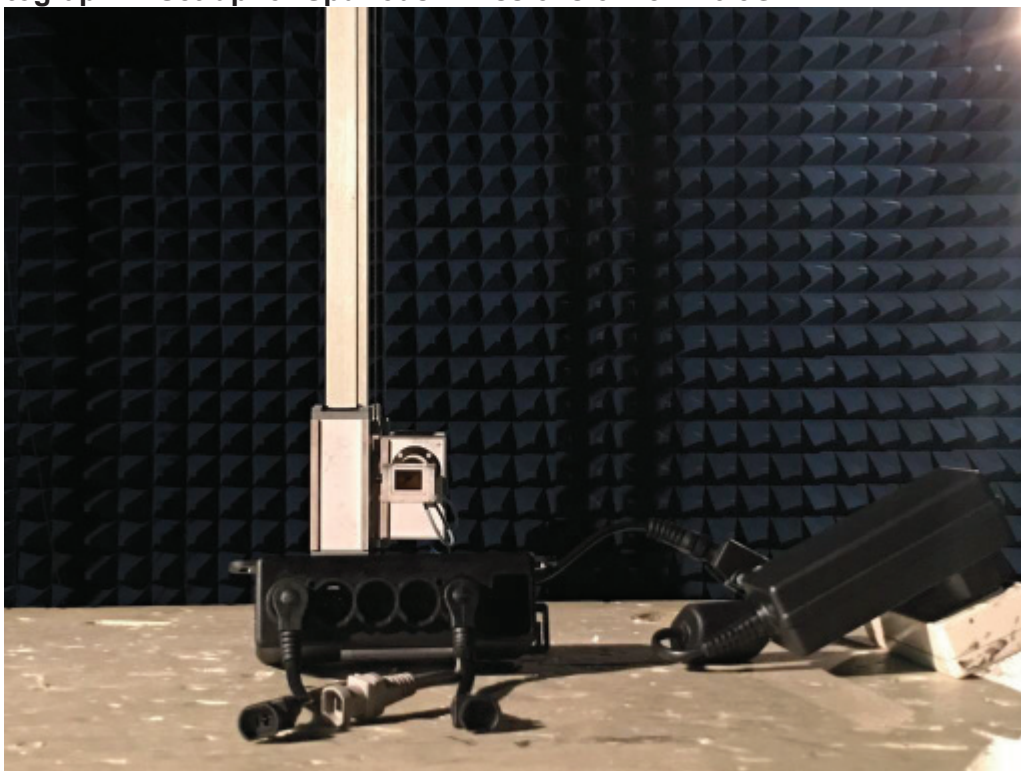
Photograph 2: Set-up for Spurious Emissions of 30MHz – 1GHz



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



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



Photograph 5: Set-up for Conducted Emission



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