

Prüfbericht-Nr.: <i>Test Report No.:</i>	17049168 001	Auftrags-Nr.: <i>Order No.:</i>	164035518	Seite 1 von 63 <i>Page 1 of 63</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	05.05.2015	
Auftraggeber: <i>Client:</i>	Anfair Electronics Plastic Factory, 182 Qingzhang Road Chang Shan Tou, QingXi Town, Dong Guan, China			
Prüfgegenstand: <i>Test item:</i>	FM Transmitter with Lightning Connector			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	NS-MA5FMT, NS-MA5FMT-C			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.239 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-Gen Issue 4 December 2014 RSS-102 Issue 5 March 2015		CFR47 FCC Part 15: Subpart C Section 15.209 RSS-210 Issue 8 December 2010 ICES-003 Issue 5 August 2012 FCC KDB Publication 447498 v05r02	
Wareneingangsdatum: <i>Date of receipt:</i>	08.05.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000193797-002, A000193797-003, A000193797-004			
Prüfzeitraum: <i>Testing period:</i>	11.05.2015 - 28.05.2015			
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:		
28.05.2015 Owen Tian/Senior Project Manager		28.05.2015 Sam Lin/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:				
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 OPERATING FREQUENCY, 20dB & 99% BANDWIDTH

RESULT: Pass

5.1.2 FIELD STRENGTH WITHIN BAND

RESULT: Pass

5.1.3 SPURIOUS EMISSION OUTSIDE BAND

RESULT: Pass

5.1.1 RADIATED EMISSION

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 spurious emissions				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Test Receiver	Rohde & Schwarz	ESCS30	100307	2016-01-09
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-14
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2016-01-14
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	2016-01-14
RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	2016-01-09
Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	2016-01-09
50 Coaxial Switch	Anritsu Corp	MP59B	62005064 74	2016-01-09
RF Coaxial Cable	SUHNER	N-3m	No.8	2016-01-09
RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	2016-01-09
RF Coaxial Cable	SUHNER	N-6m	No.10	2016-01-09
RF Coaxial Cable	RESENBERGER	N-12m	No.11	2016-01-09
RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	2016-01-09
Radio Spectrum Test				
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2016-01-09
Vector Signal Generator	Rohde & Schwarz	SMBV100A	260434	2016-01-09
Signal Generator	Rohde & Schwarz	SMB100A	108362	2016-01-09
Open Switch and Control Unit	Rohde & Schwarz	OSP120 + OSP-B157	101244 + 100866	2016-01-09

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	$< \pm 0.20 \text{ dB}$
Radiated emission of transmitter, 9k – 30MHz	$< \pm 3.08 \text{ dB}$
Radiated emission of transmitter, 30M - 1GHz	$< \pm 4.42 \text{ dB}$
Radiated emission of transmitter, 1 - 2GHz	$< \pm 4.06 \text{ dB}$

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 FM transmitter with Lightning Connector.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	FM Transmitter with Lightning Connector
FCC ID/Type Designation	2AEI7MA5/NS-MA5FMT, NS-MA5FMT-C
Operating Frequency band	88.1 – 107.9MHz
Channel Bandwidth	200kHz
Modulation	FM
Extreme Temperature Range	0~+40°C
Operation Voltage	DC 12V
Antenna Gain	-2dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
- B. Standby
- C. 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 C63.4: 2009.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
iPhone 5s	Apple	MF352ZP/A	C38LWV7QFRC4

4.4 Countermeasures to achieve EMC Compliance

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

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

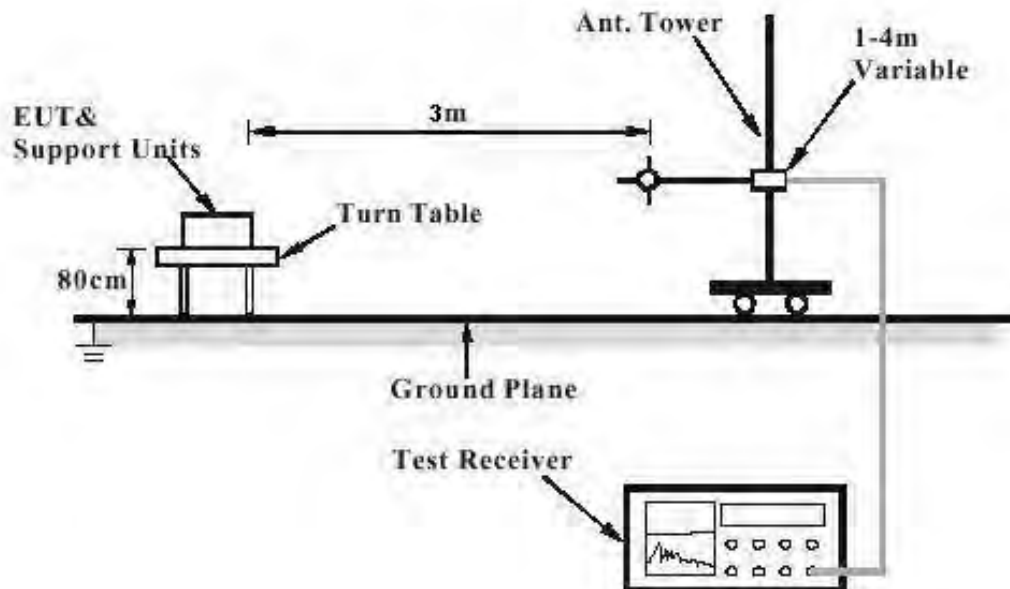
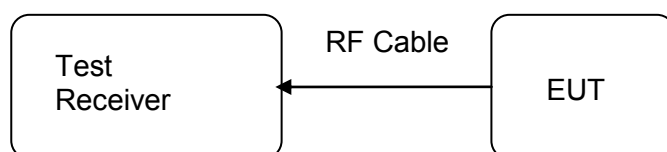


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Operating frequency, 20dB & 99% Bandwidth

RESULT:**Pass**

Test standard : FCC Part 15.239 (a)
RSS-210 A2.8
Basic standard : ANSI C63.4: 2009
Limit : 200kHz
Kind of test site : Shielded room

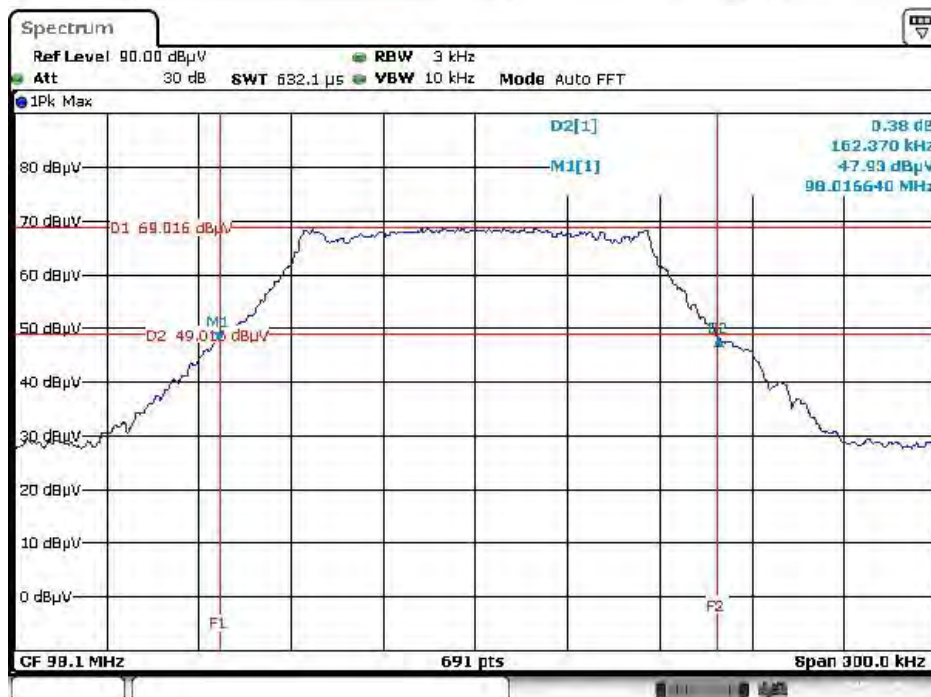
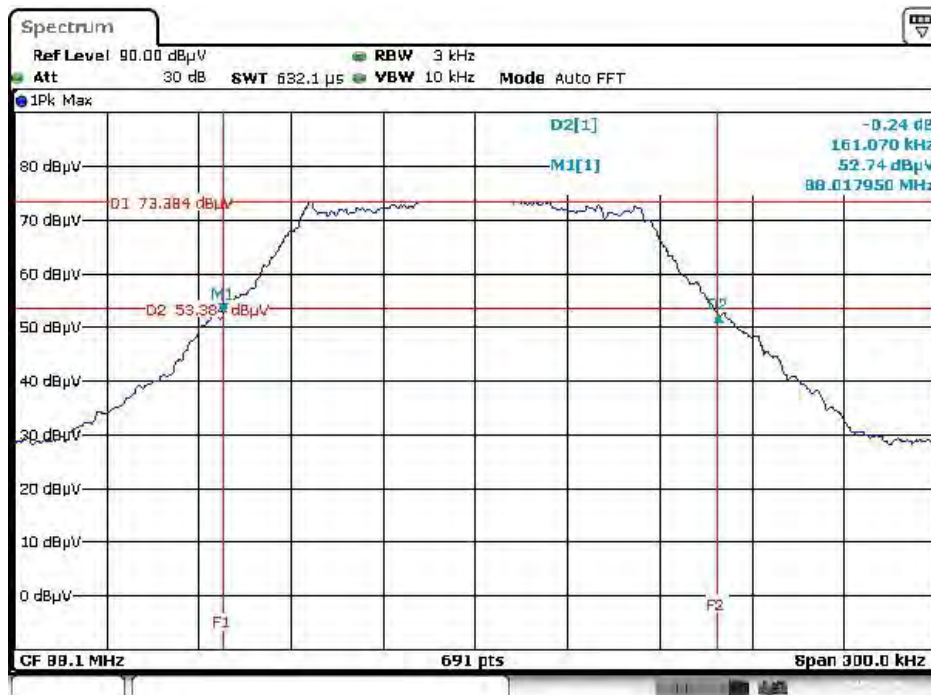
Test setup

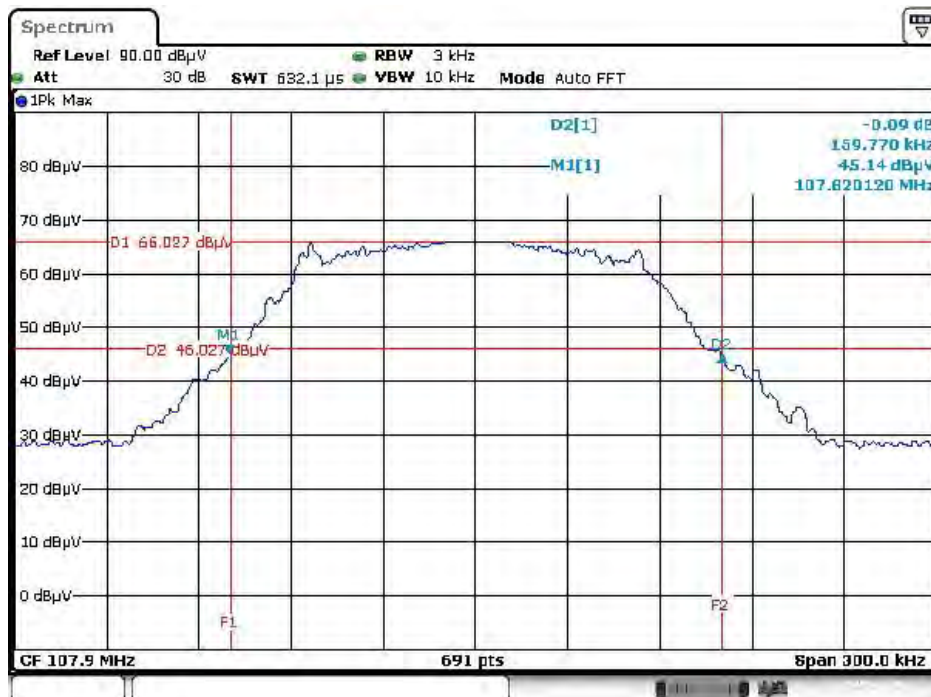
Test date : 2015-05-11
Operation mode : A
Ambient temperature : 25°C
Relative humidity : 50%
Atmospheric pressure : 101kPa

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

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)
Low Channel	88.1	161.070	132.417	≤200
Mid Channel	98.1	162.370	131.548	≤200
High Channel	107.9	159.770	131.983	≤200

For details refer to following test plot.







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5.1.2 Field Strength within Band

RESULT:**Pass**

Test standard	:	FCC part 15.239 (b) RSS-210 A2.8
Basic standard	:	ANSI C63.4: 2009
Limits	:	48dBµV/m
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Date of testing	:	2015-05-11
Operation mode	:	A
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.


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Job No.: LAN2015 #1241

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

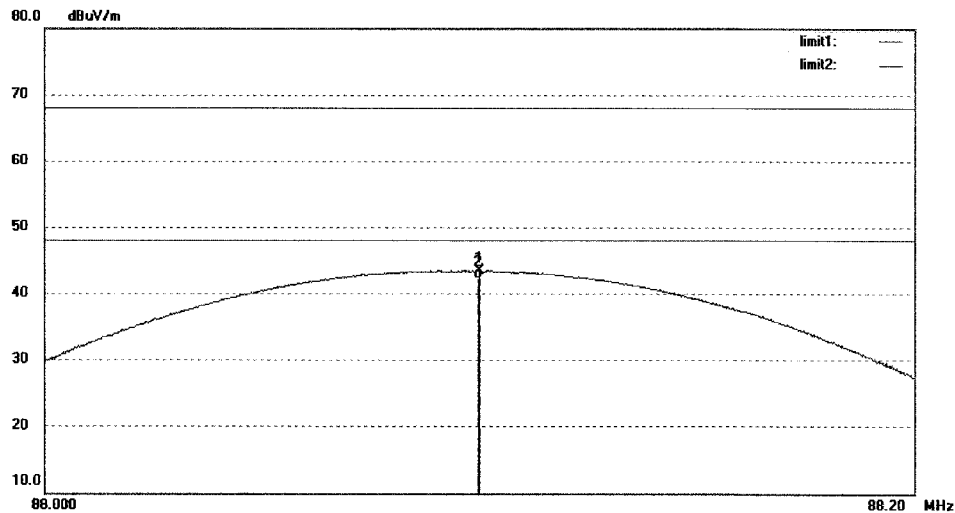
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	58.70	-15.19	43.51	68.00	-24.49	peak			
2	88.1000	57.42	-15.19	42.23	48.00	-5.77	AVG			


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Job No.: LAN2015 #1242

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

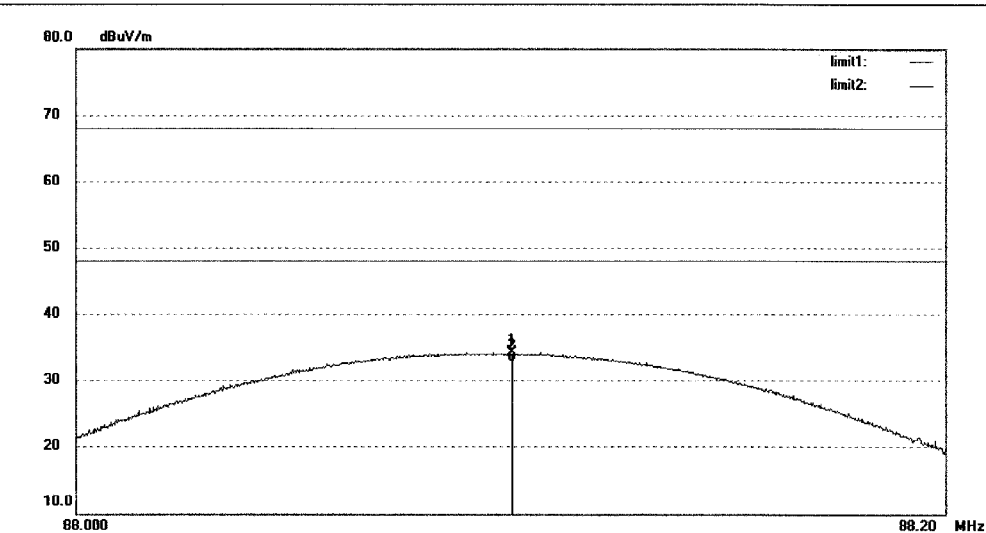
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	49.38	-15.19	34.19	68.00	-33.81	peak			
2	88.1000	48.04	-15.19	32.85	48.00	-15.15	AVG			


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Job No.: LAN2015 #1244

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 98.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

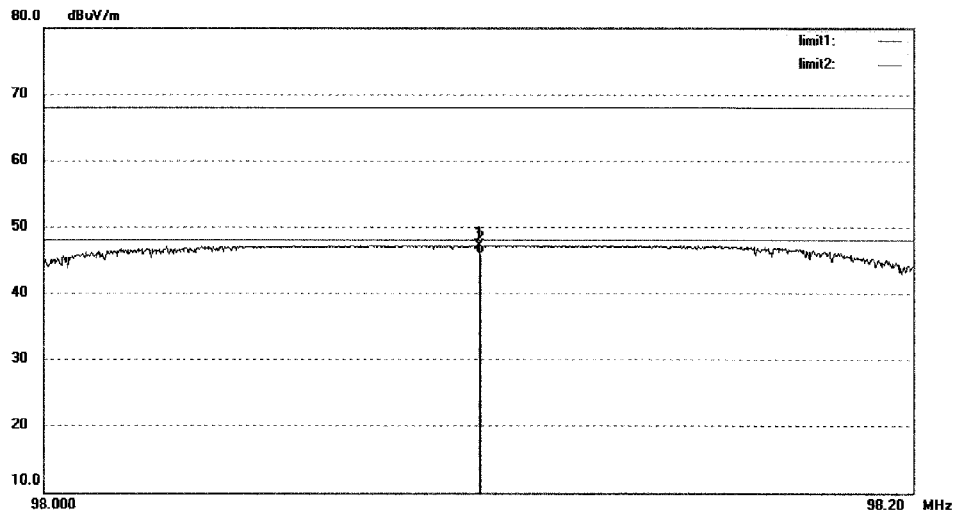
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	60.91	-13.77	47.14	68.00	-20.86	peak			
2	98.1000	59.65	-13.77	45.88	48.00	-2.12	AVG			


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Job No.: LAN2015 #1243

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 98.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

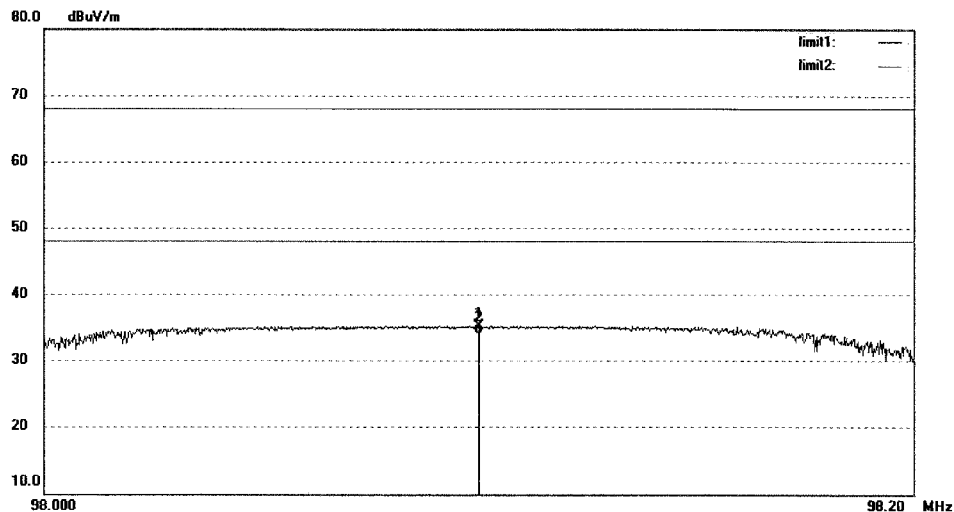
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	49.07	-13.77	35.30	68.00	-32.70	peak			
2	98.1000	47.89	-13.77	34.12	48.00	-13.88	AVG			


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Job No.: LAN2015 #1245

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

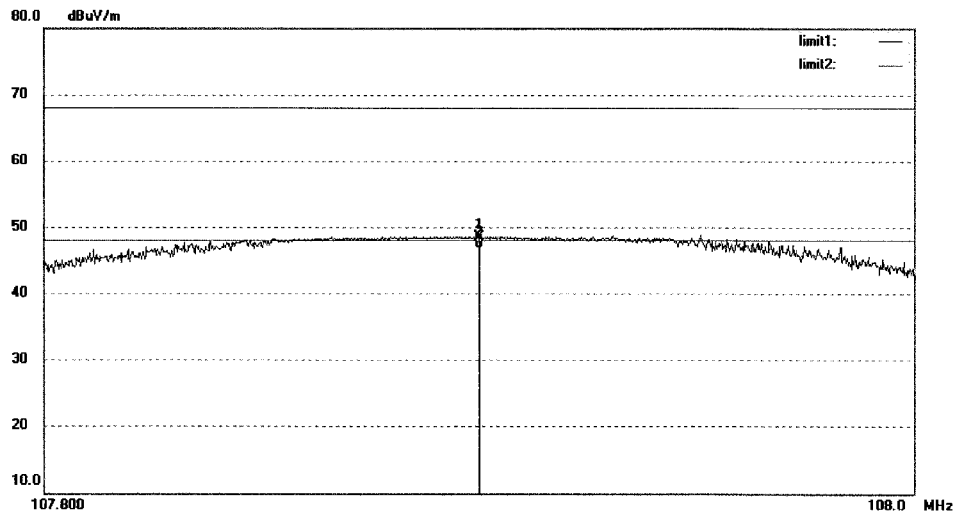
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	62.55	-13.92	48.63	68.00	-19.37	peak			
2	107.9000	60.82	-13.92	46.90	48.00	-1.10	AVG			


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Job No.: LAN2015 #1246

Standard: FCC

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

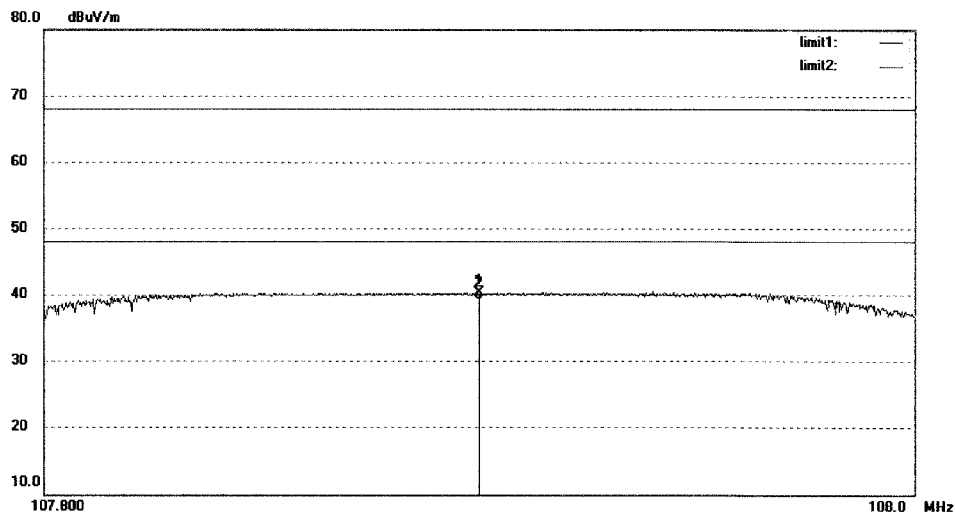
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	54.26	-13.92	40.34	68.00	-27.66	peak			
2	107.9000	53.31	-13.92	39.39	48.00	-8.61	AVG			

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5.1.3 Spurious Emission outside Band**RESULT:****Pass**

Test standard	:	FCC part 15.239 (c)
	:	RSS-210 A2.8
Basic standard	:	ANSI C63.4: 2009
Kind of test site	:	Shielded room

Test setup

Date of testing	:	2015-05-26
Operation Mode	:	A
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

Test Plot of Spurious Emission outside Band

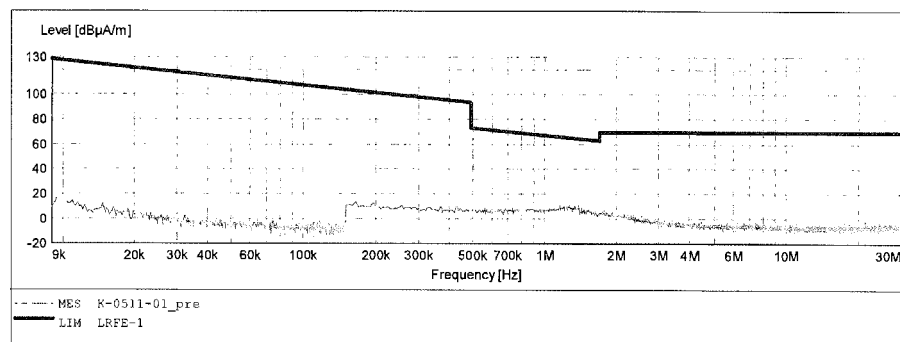
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FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N: NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 88.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2015-5-11 /

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

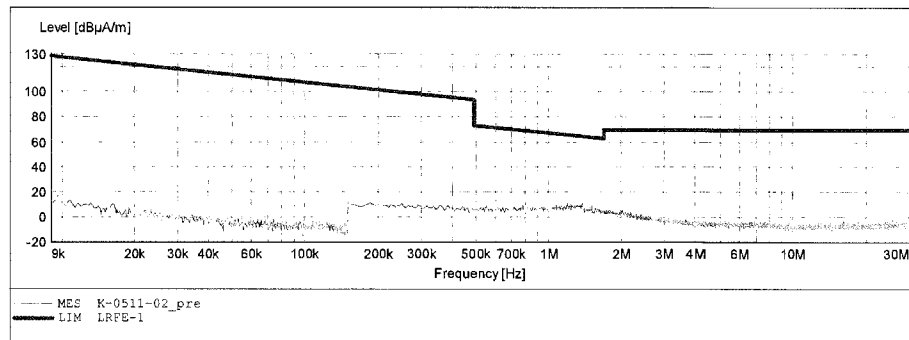


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FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 88.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2015-5-11 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
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

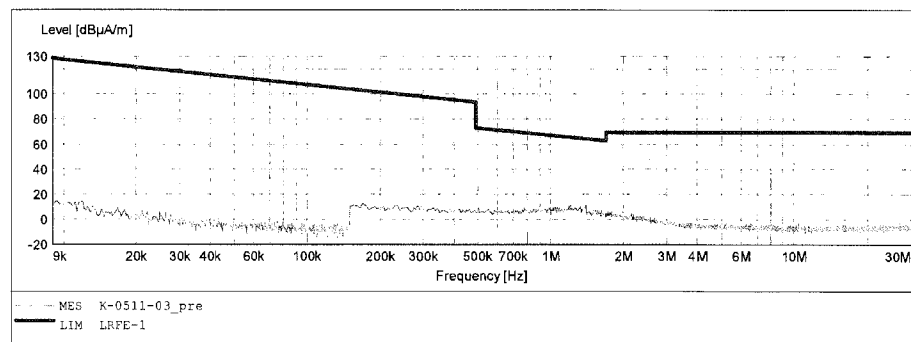


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N: NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 88.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2015-5-11 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
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.

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Fax:+86-0755-26503396

Job No.: Ian2015 #1173

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

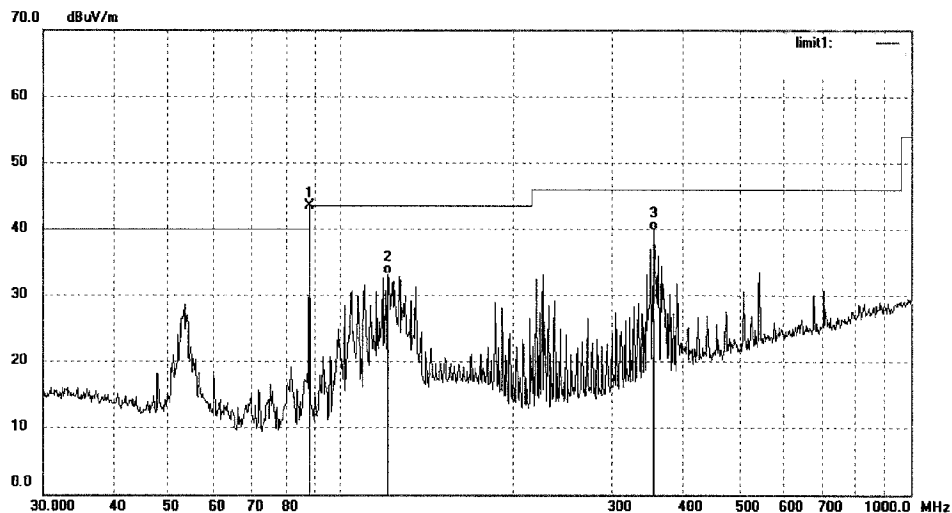
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	58.68	-15.19	43.49	/	/	peak			
2	121.1230	46.40	-13.28	33.12	43.50	-10.38	QP			
3	355.4273	47.53	-7.70	39.83	46.00	-6.17	QP			


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Job No.: Ian2015 #1174

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: DC 12V

Test item: Radiation Test

Date: 15/05/11/

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

Time:

EUT: FM Transmitter with Lightning Connector

Engineer Signature:

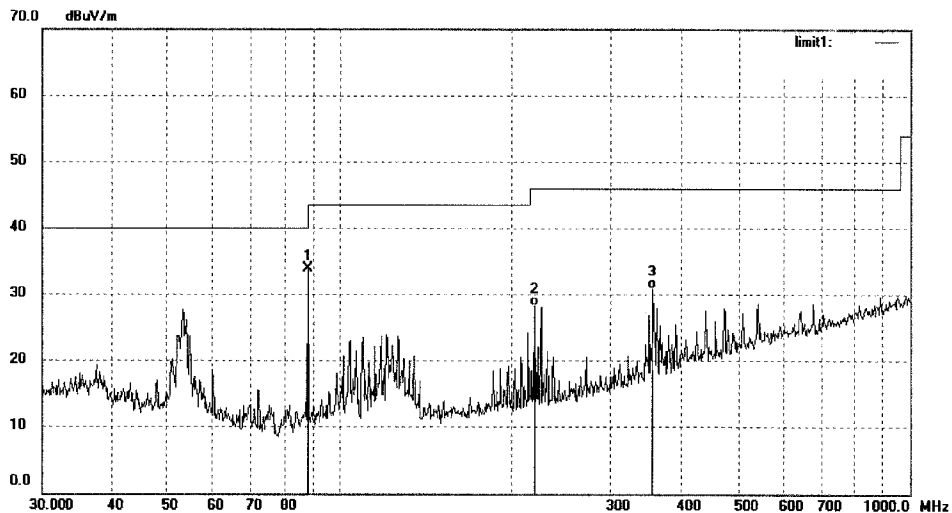
Mode: TX 88.1MHz

Distance: 3m

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1000	48.97	-15.19	33.78	/	/	peak			
2	219.8448	39.89	-11.71	28.18	46.00	-17.82	QP			
3	355.4273	38.62	-7.70	30.92	46.00	-15.08	QP			


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Job No.: Ian2015 #1188

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

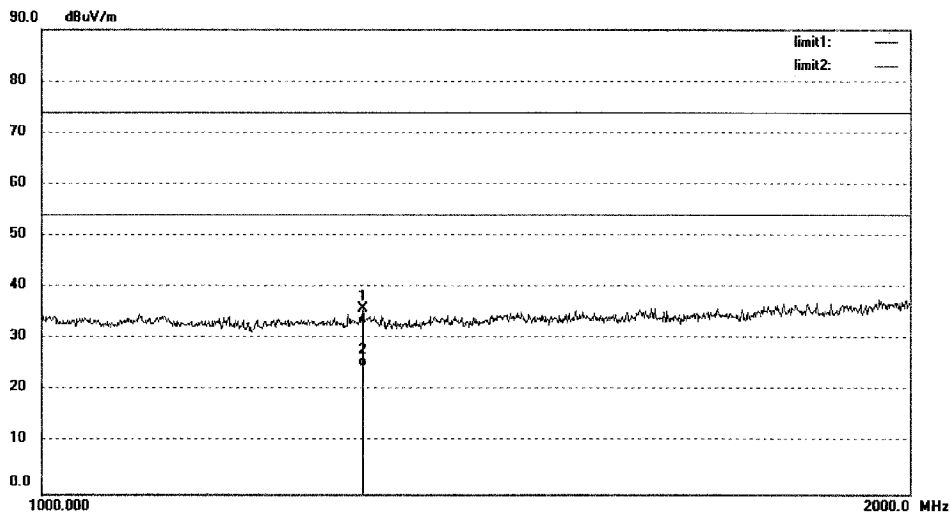
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1293.249	47.99	-12.21	35.78	74.00	-38.22	peak			
2	1293.249	36.87	-12.21	24.66	54.00	-29.34	AVG			


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Job No.: Ian2015 #1187

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

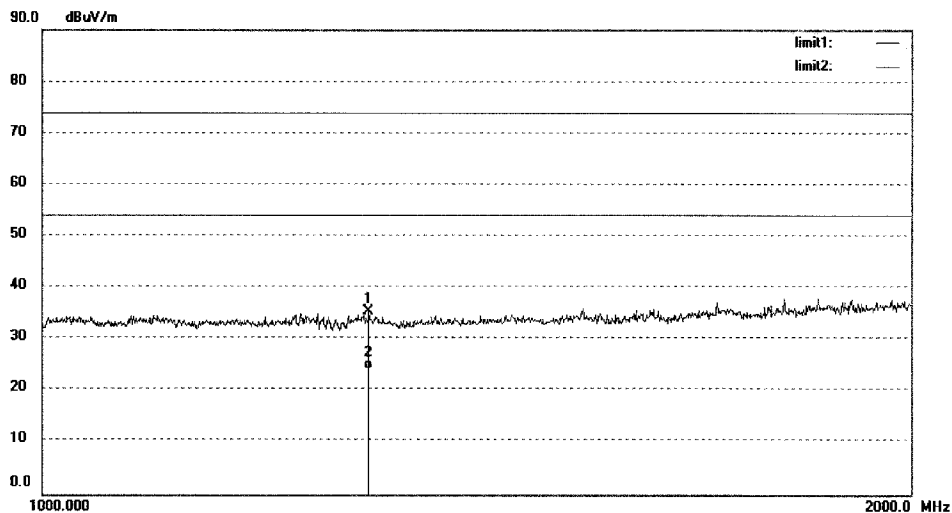
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



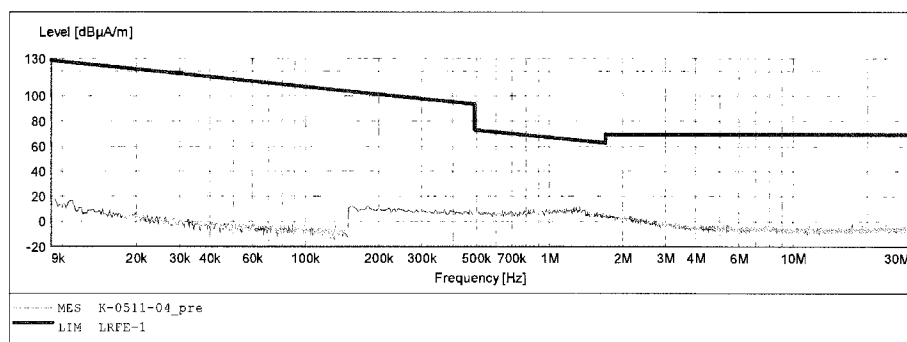
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1298.639	47.57	-12.20	35.37	74.00	-38.63	peak			
2	1298.639	36.43	-12.20	24.23	54.00	-29.77	AVG			

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

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 98.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2015-5-11 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
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

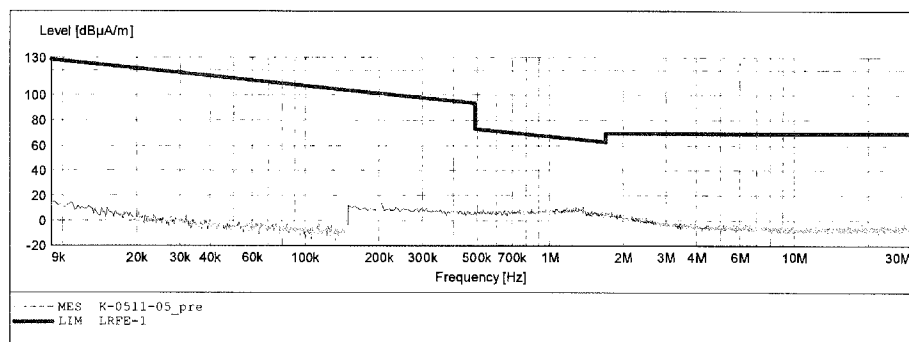


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 98.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2015-5-11 / 11:13:09

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

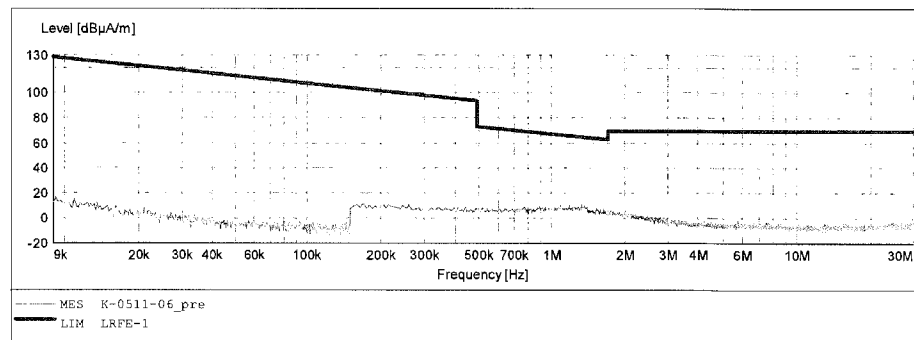


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 98.1MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2015-5-11 /

SCAN TABLE: "LFRE Fin"

Short Description:				SUB STD VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 9.0 kHz	Frequency 150.0 kHz	Width 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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Fax:+86-0755-26503396

Job No.: Ian2015 #1171

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 98.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

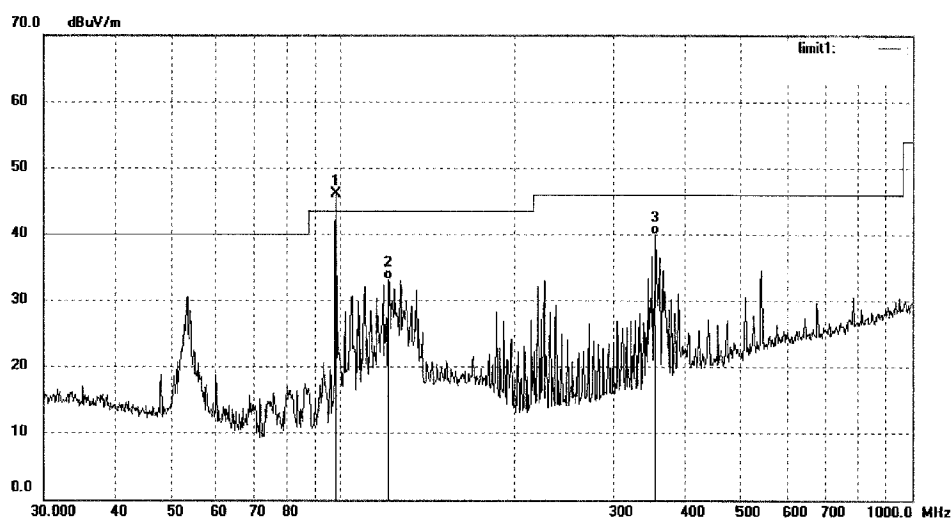
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	59.94	-13.77	46.17	/	/	peak			
2	121.1230	46.48	-13.28	33.20	43.50	-10.30	QP			
3	355.4273	47.77	-7.70	40.07	46.00	-5.93	QP			


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Job No.: Ian2015 #1172

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 98.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

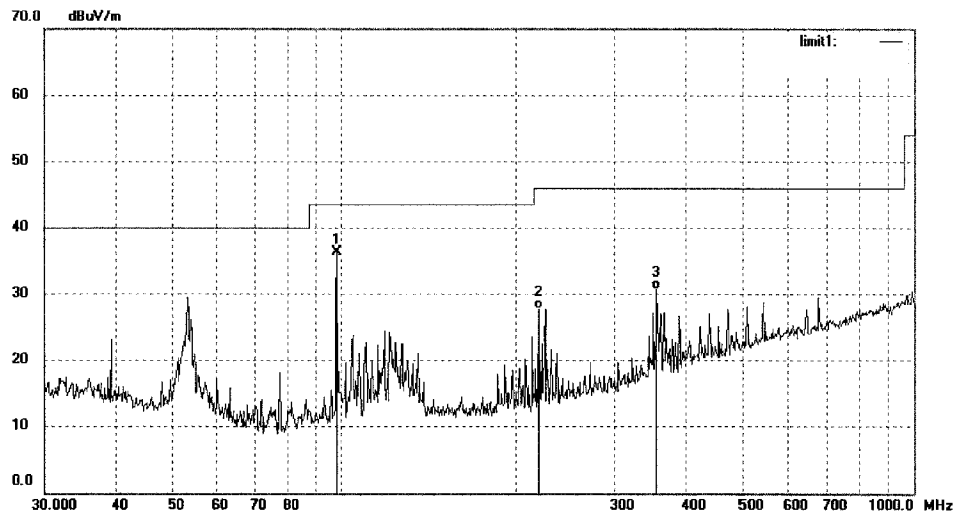
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.1000	50.08	-13.77	36.31	/	/	peak			
2	219.8448	39.50	-11.71	27.79	46.00	-18.21	QP			
3	355.4273	38.41	-7.70	30.71	46.00	-15.29	QP			

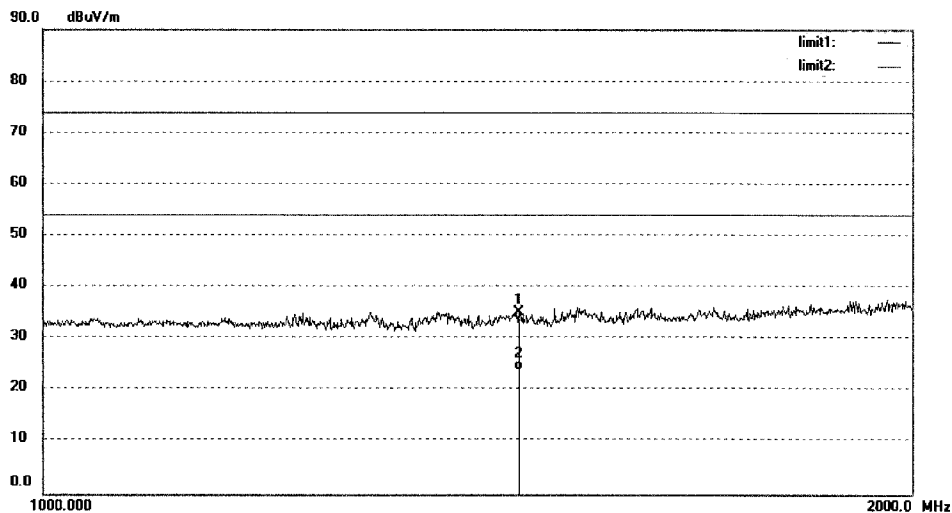

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Site: 1# Chamber
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Job No.: Ian2015 #1189	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 15/05/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 98.1MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1461.044	46.81	-11.58	35.23	74.00	-38.77	peak			
2	1461.044	35.61	-11.58	24.03	54.00	-29.97	AVG			


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Fax: +86-0755-26503396

Job No.: Ian2015 #1190

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 98.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

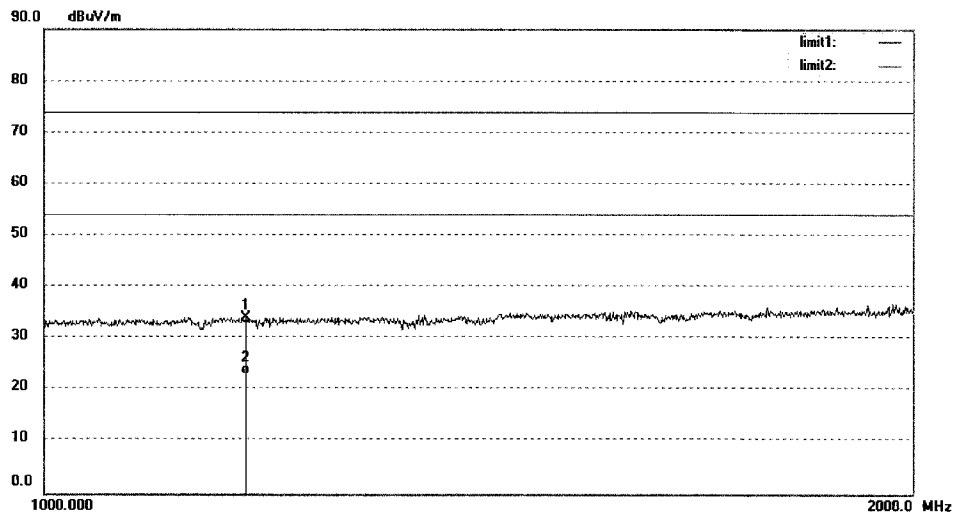
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



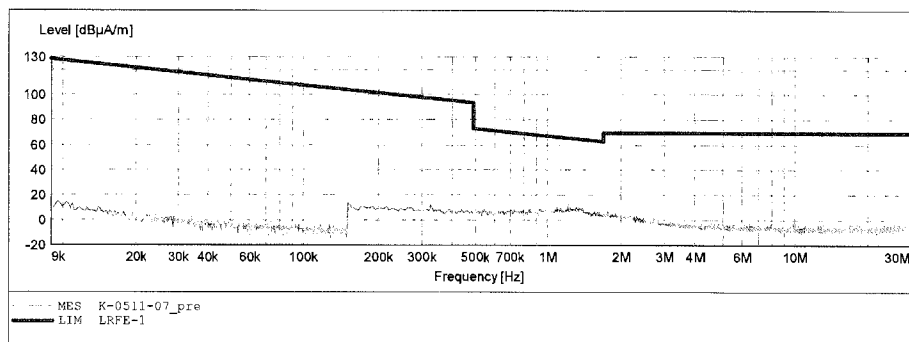
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1174.462	46.52	-12.50	34.02	74.00	-39.98	peak			
2	1174.462	35.66	-12.50	23.16	54.00	-30.84	AVG			

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

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 107.9MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2015-5-11 /

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

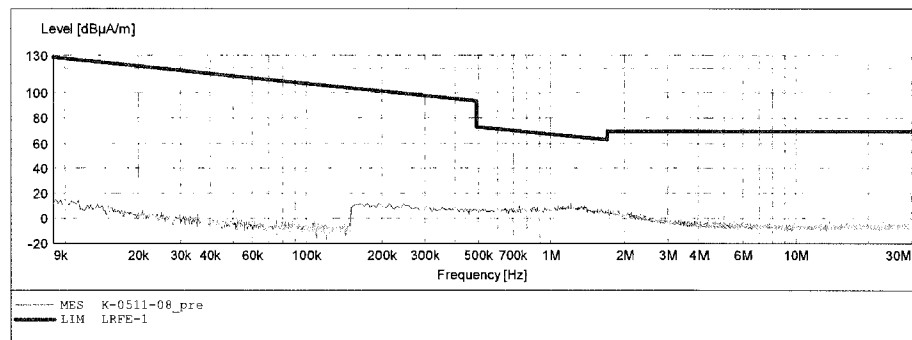


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N:NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 107.9MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2015-5-11 /

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

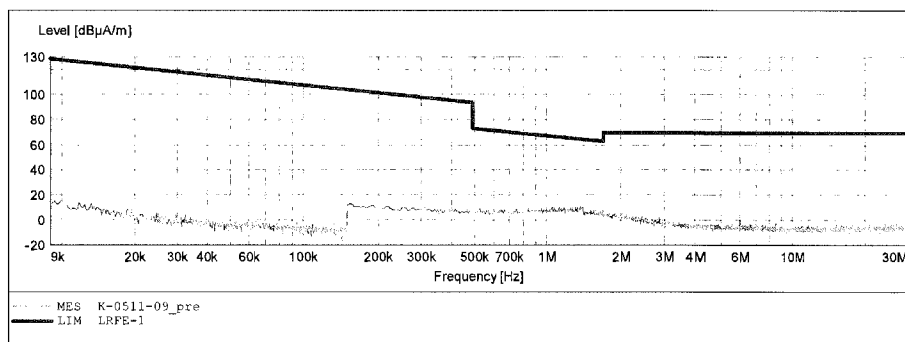


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FCC Class B 3m Radiated

EUT: FM Transmitter with Lightning Connector M/N: NS-MA5FMT, NS-MA5FMT-C
 Manufacturer: AnFair Electronics Plastic Factory
 Operating Condition: TX 107.9MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2015-5-11 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
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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Job No.: Ian2015 #1169

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

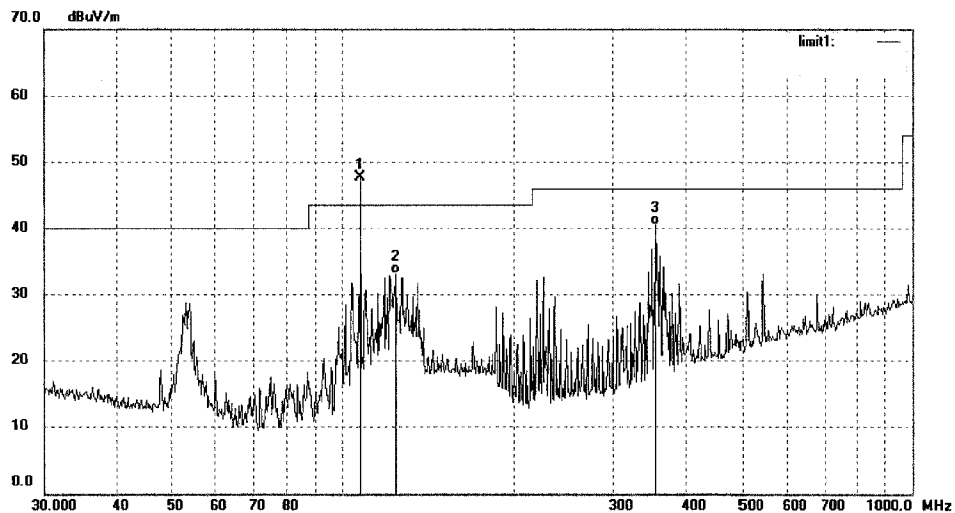
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	61.54	-13.92	47.62	/	/	peak			
2	124.1329	46.77	-13.64	33.13	43.50	-10.37	QP			
3	355.4273	48.26	-7.70	40.56	46.00	-5.44	QP			


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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: Ian2015 #1170

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

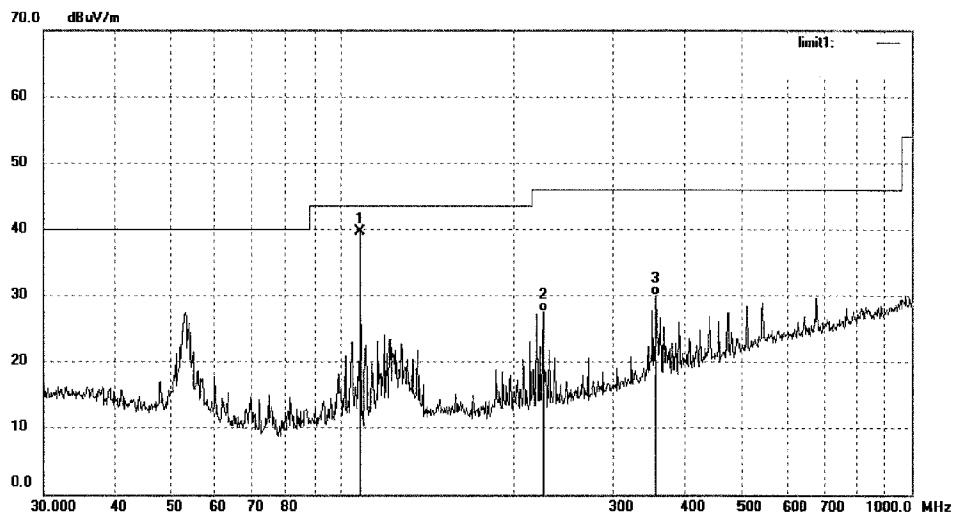
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9000	53.57	-13.92	39.65	/	/	peak			
2	226.0994	38.90	-11.41	27.49	46.00	-18.51	QP			
3	355.4273	37.63	-7.70	29.93	46.00	-16.07	QP			

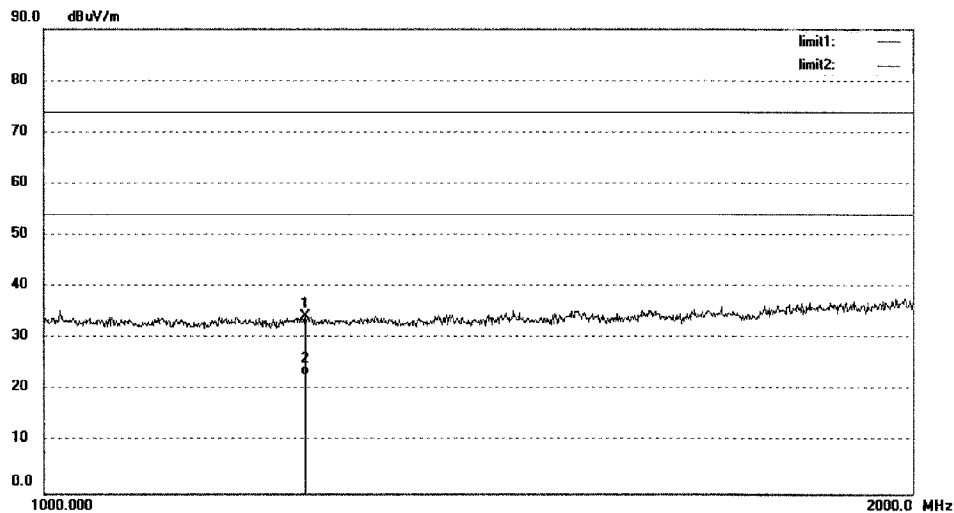

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Site: 1# Chamber
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Job No.: Ian2015 #1191	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 15/05/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 107.9MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1232.852	46.68	-12.36	34.32	74.00	-39.68	peak			
2	1232.852	35.25	-12.36	22.89	54.00	-31.11	AVG			


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Job No.: Ian2015 #1192

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

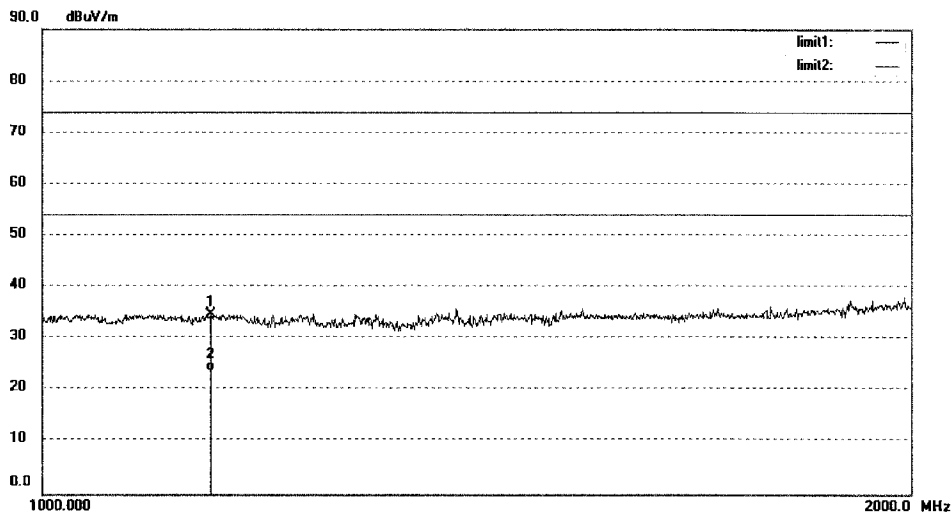
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1143.931	47.20	-12.51	34.69	74.00	-39.31	peak			
2	1143.931	36.34	-12.51	23.83	54.00	-30.17	AVG			

Prüfbericht - Nr.: 17049168 001
Test Report No.
Seite 43 von 63
Page 43 of 63

Test Plot of Spurious Emission outside Band above 1GHz for IC


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Site: 2# Chamber

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Job No.: LAN2015 #1316

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

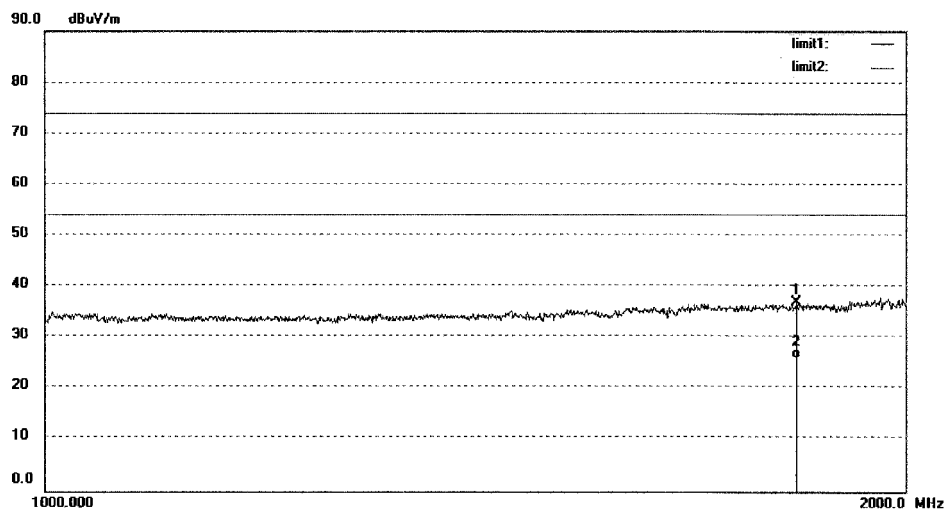
Date: 2015/05/26

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1831.467	46.67	-9.72	36.95	74.00	-37.05	peak			
2	1831.467	35.74	-9.72	26.02	54.00	-27.98	AVG			


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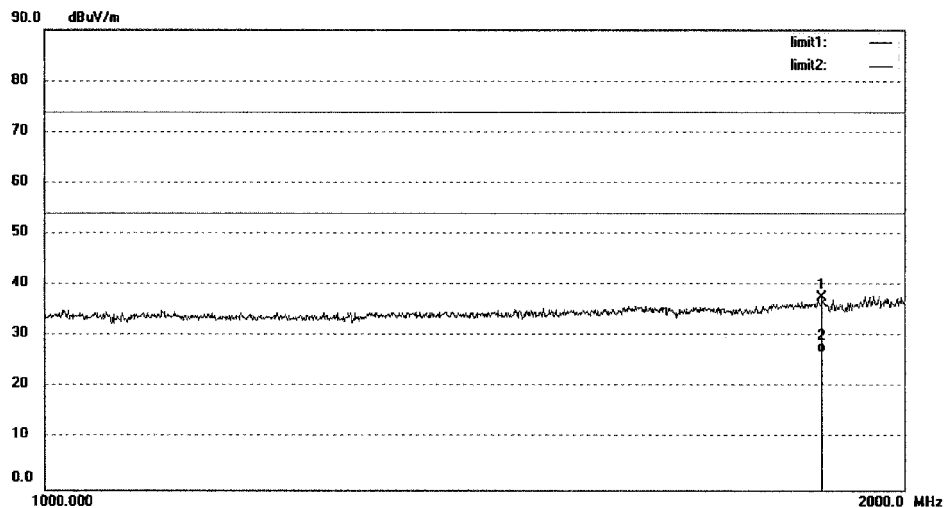
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2015 #1315	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2015/05/26
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 88.1MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1872.544	47.24	-9.62	37.62	74.00	-36.38	peak			
2	1872.544	36.43	-9.62	26.81	54.00	-27.19	AVG			


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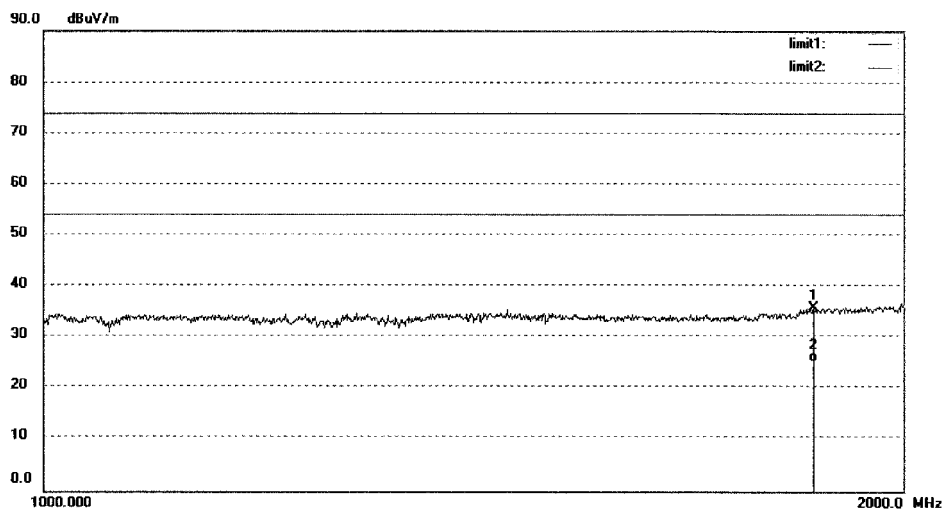
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2015 #1317	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2015/05/26
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 98.1MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1860.899	45.39	-9.57	35.82	74.00	-38.18	peak			
2	1860.899	34.87	-9.57	25.30	54.00	-28.70	AVG			


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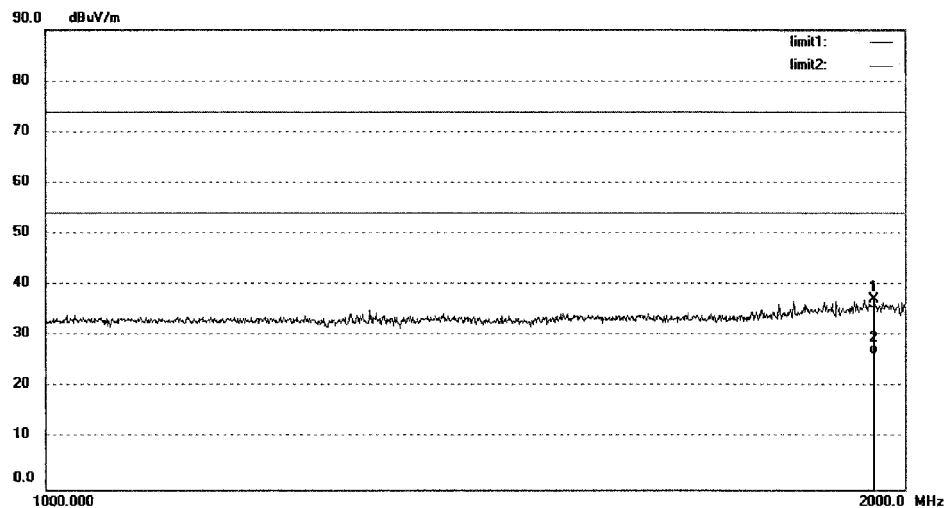
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2015 #1318	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2015/05/26
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 98.1MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1952.063	46.48	-9.30	37.18	74.00	-36.82	peak			
2	1952.063	35.72	-9.30	26.42	54.00	-27.58	AVG			


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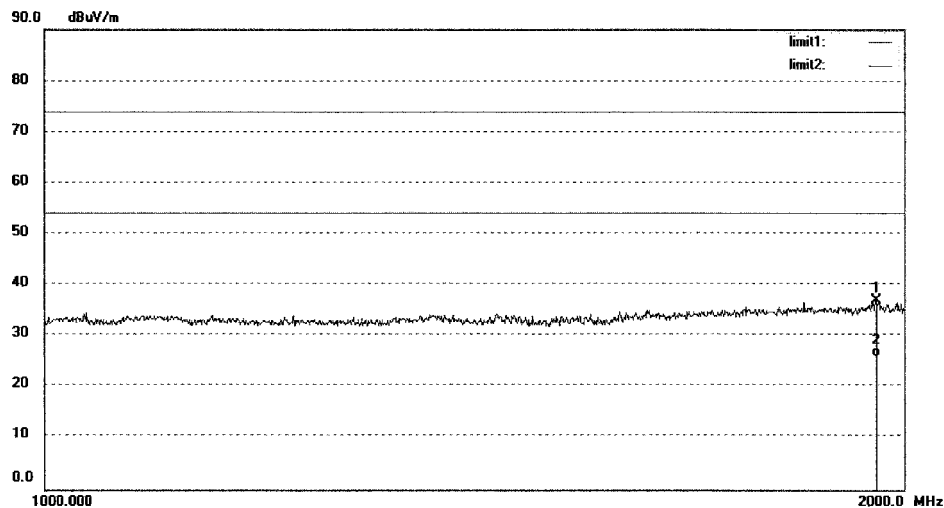
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2015 #1320	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2015/05/26
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 107.9MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1956.127	46.35	-9.27	37.08	74.00	-36.92	peak			
2	1956.127	35.25	-9.27	25.98	54.00	-28.02	AVG			


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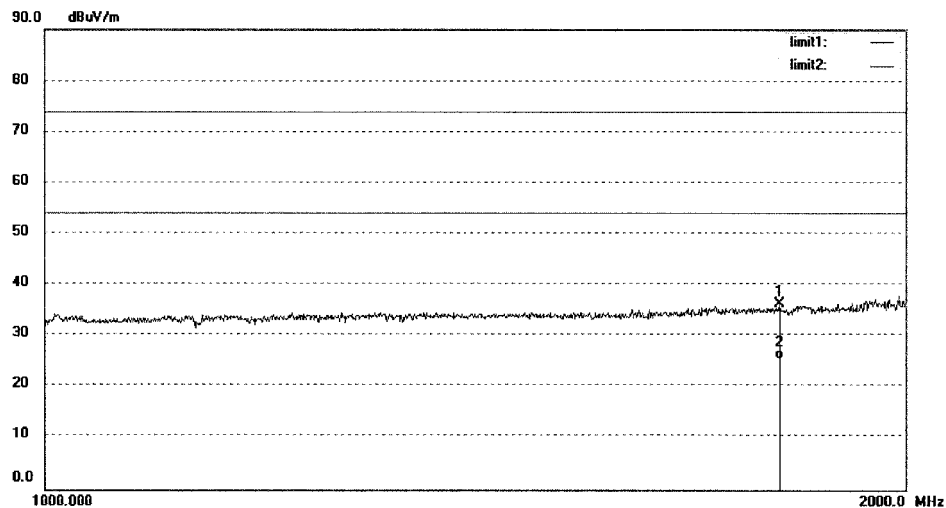
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2015 #1319	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2015/05/26
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 107.9MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1808.759	46.24	-9.94	36.30	74.00	-37.70	peak			
2	1808.759	35.44	-9.94	25.50	54.00	-28.50	AVG			

Band Edge


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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015 #1178

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: DC 12V

Test item: Radiation Test

Date: 15/05/11/

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

Time:

EUT: FM Transmitter with Lightning Connector

Engineer Signature:

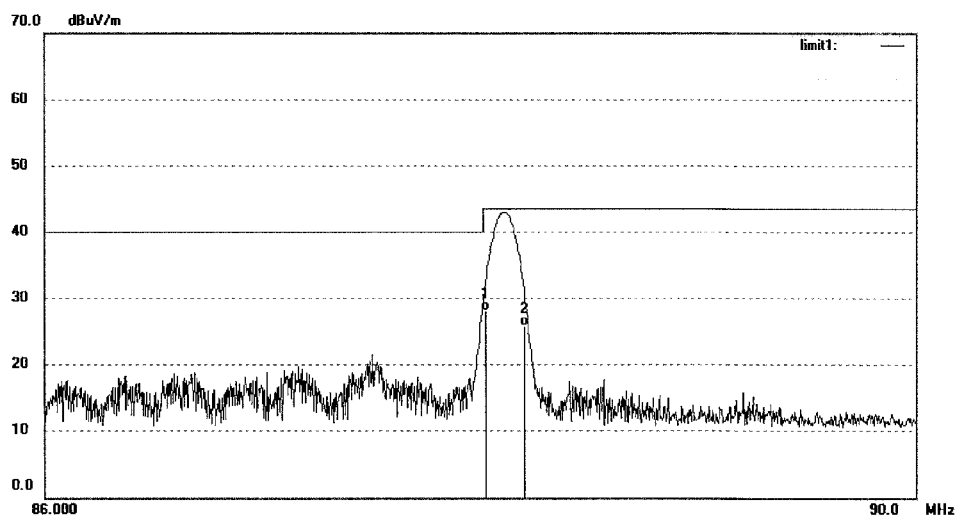
Mode: TX 88.1MHz

Distance: 3m

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0000	43.28	-15.20	28.08	40.00	-11.92	QP			
2	88.2000	41.02	-15.19	25.83	43.50	-17.67	QP			


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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015 #1177

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 88.1MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

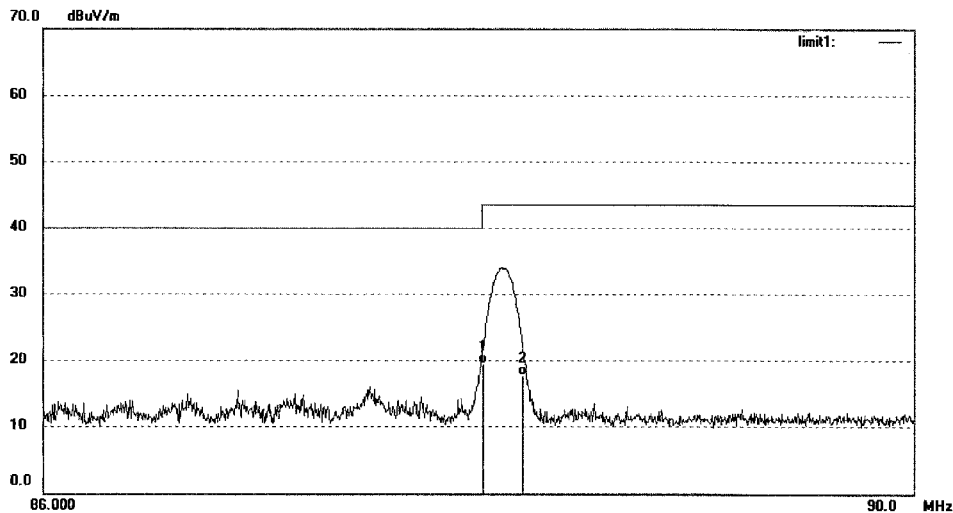
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.0000	34.67	-15.20	19.47	40.00	-20.53	QP			
2	88.2000	32.89	-15.19	17.70	43.50	-25.80	QP			


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Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: Ian2015 #1179

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: TX 107.9MHz

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

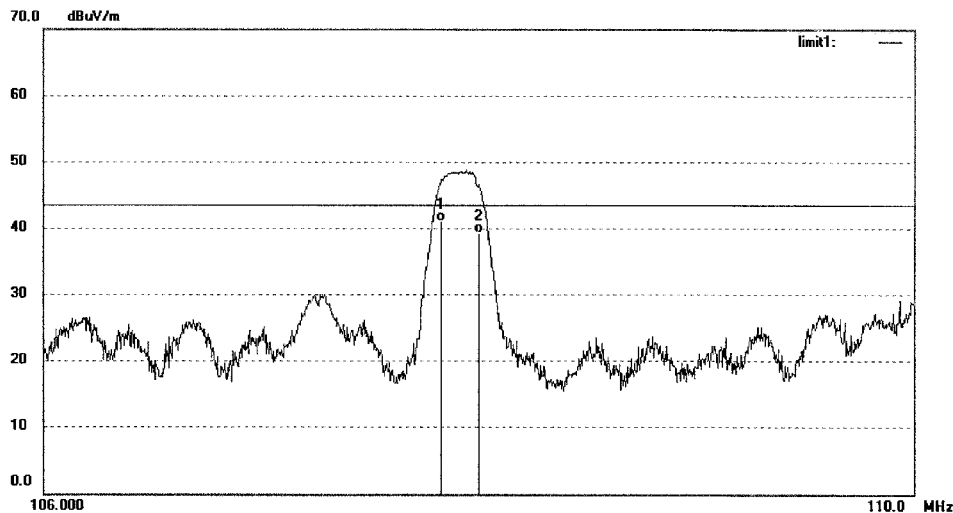
Date: 15/05/11/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.8000	54.90	-13.92	40.98	43.50	-2.52	QP			
2	108.0000	53.12	-13.92	39.20	43.50	-4.30	QP			


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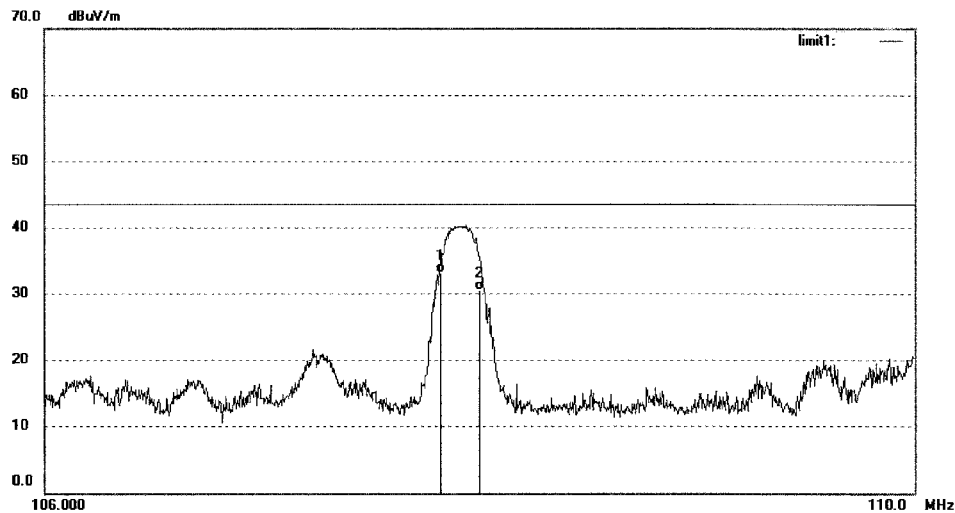
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Ian2015 #1180	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 15/05/11/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: FM Transmitter with Lightning Connector	Engineer Signature:
Mode: TX 107.9MHz	Distance: 3m
Model: NS-MA5FMT, NS-MA5FMT-C	
Manufacturer: AnFair Electronics Plastic Factory	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.8000	47.13	-13.92	33.21	43.50	-10.29	QP			
2	108.0000	44.45	-13.92	30.53	43.50	-12.97	QP			

Prüfbericht - Nr.: 17049168 001

Test Report No.

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5.1.1 Radiated Emission

RESULT:**Pass**

Date of testing	:	2015-05-28
Test standard	:	FCC Part 15.109 (a) ICES-003 Issue 5 August 2012
Test procedure	:	ANSI C63.4: 2003
Frequency range	:	30 - 2000MHz
Equipment Classification	:	Class B
Limits	:	FCC Part 15.109(a) ICES-003 Issue 5 August 2012
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

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

For details refer to following test plot.


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Site: 2# Chamber

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Job No.: LAN2015 #1327

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: On

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

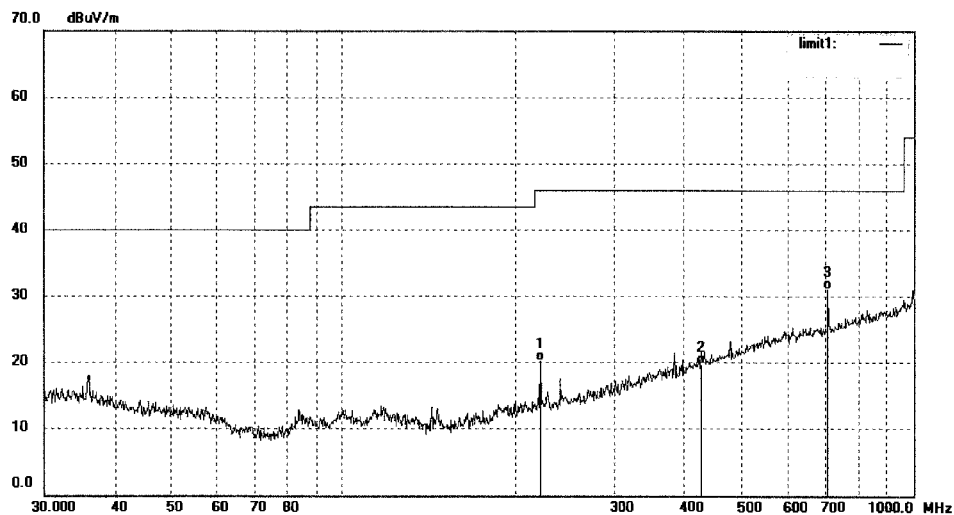
Date: 15/05/28/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	221.3920	31.85	-11.63	20.22	46.00	-25.78	QP			
2	428.0192	25.73	-6.09	19.64	46.00	-26.36	QP			
3	706.6998	32.77	-1.62	31.15	46.00	-14.85	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN2015 #1328

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: On

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

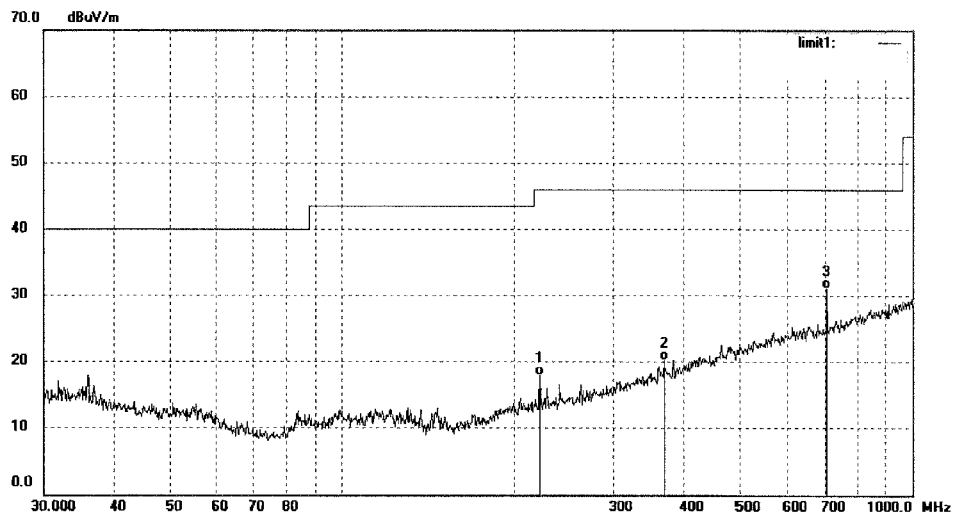
Date: 15/05/28/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	221.3920	29.56	-11.63	17.93	46.00	-28.07	QP			
2	369.4045	27.68	-7.51	20.17	46.00	-25.83	QP			
3	706.6998	32.60	-1.62	30.98	46.00	-15.02	QP			


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Fax:+86-0755-26503396

Job No.: LAN2015 #1330

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: On

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Horizontal

Power Source: DC 12V

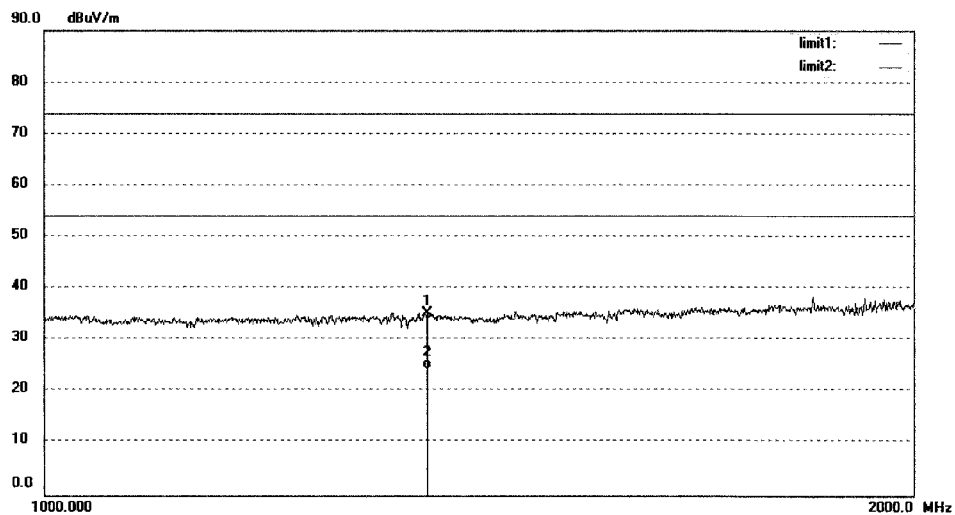
Date: 15/05/28/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1358.486	47.35	-12.05	35.30	74.00	-38.70	peak			
2	1358.486	36.46	-12.05	24.41	54.00	-29.59	AVG			


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Fax:+86-0755-26503396

Job No.: LAN2015 #1329

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: FM Transmitter with Lightning Connector

Mode: On

Model: NS-MA5FMT, NS-MA5FMT-C

Manufacturer: AnFair Electronics Plastic Factory

Polarization: Vertical

Power Source: DC 12V

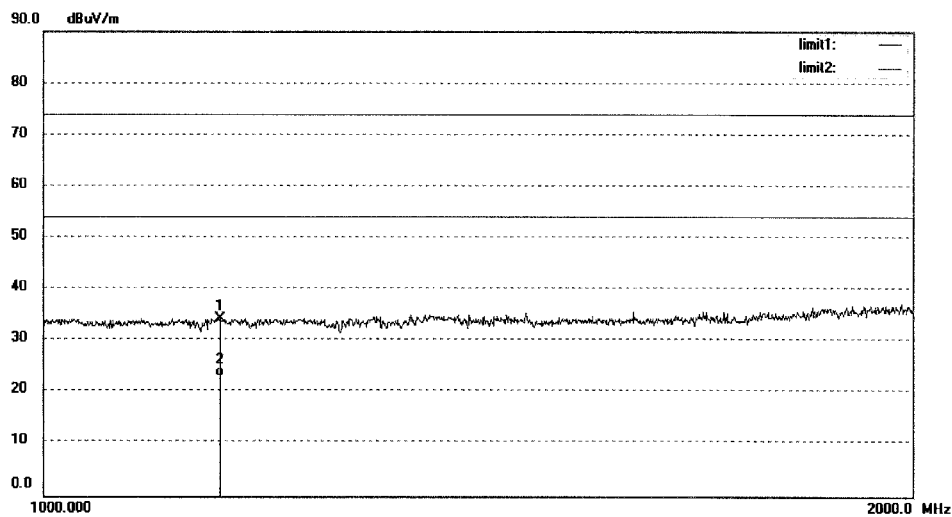
Date: 15/05/28/

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1151.090	46.91	-12.50	34.41	74.00	-39.59	peak			
2	1151.090	35.64	-12.50	23.14	54.00	-30.86	AVG			

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

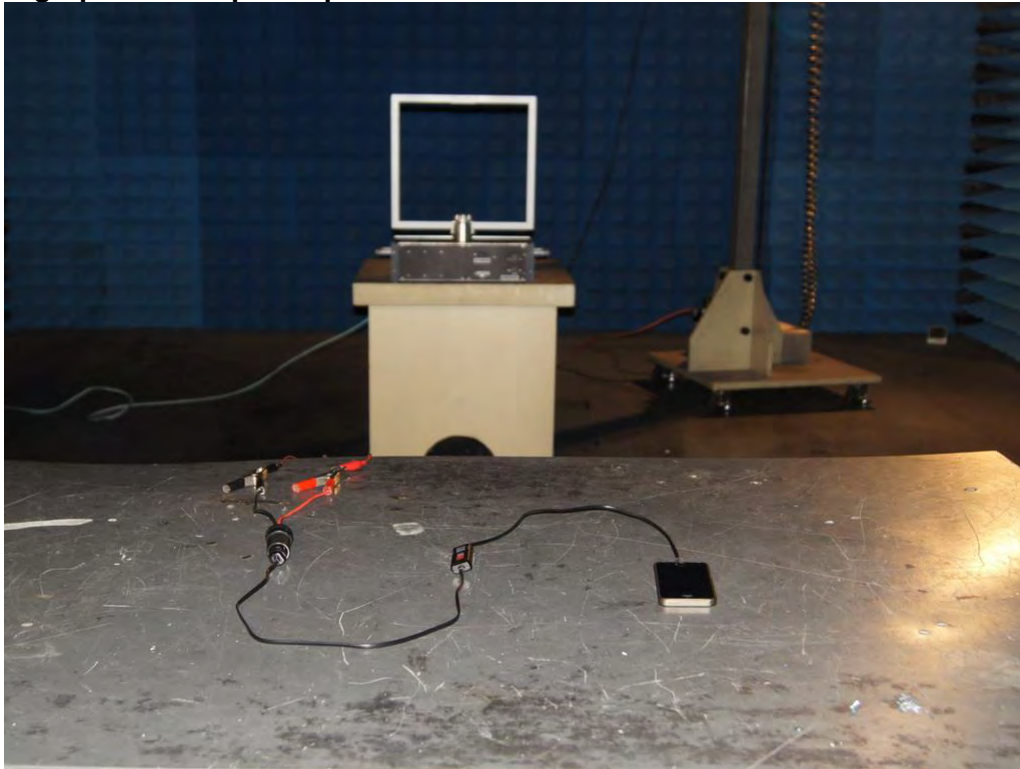
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 D01 v05r02

The maximum radiated power of the transmitter is 0.43μW (-33.66dBm) only, which less than 71mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

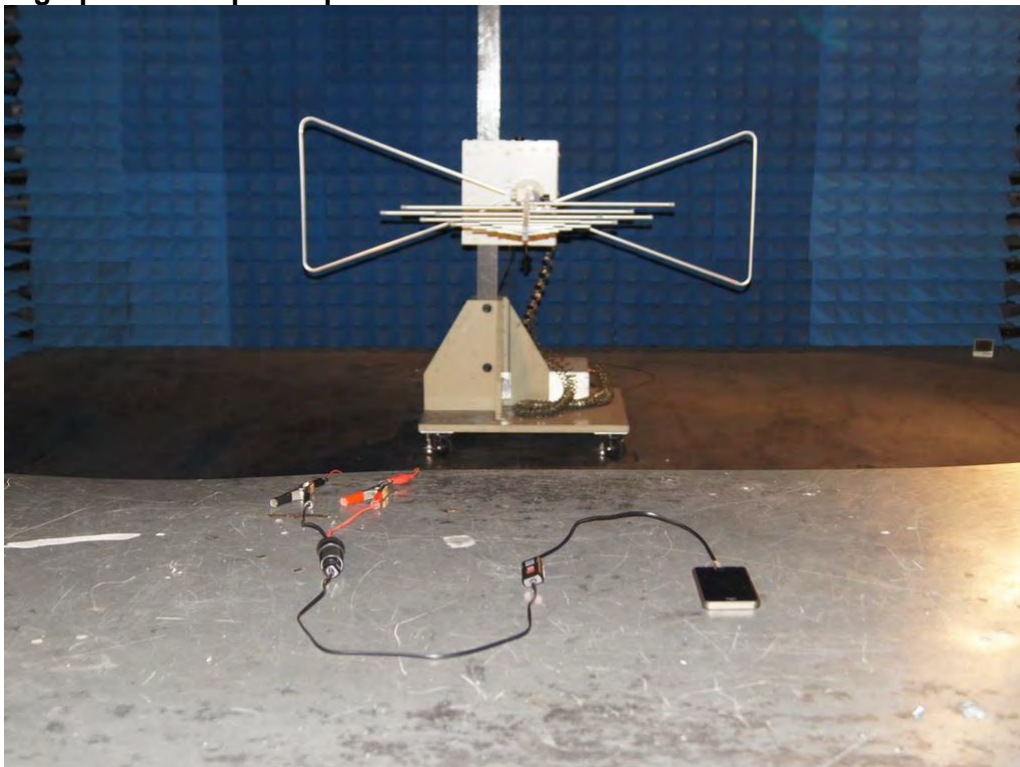
Since maximum radiated power of the transmitter is 0.43μW<39mW, and the distance from EUT to human is 5mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

7. Photographs of the Test Set-Up

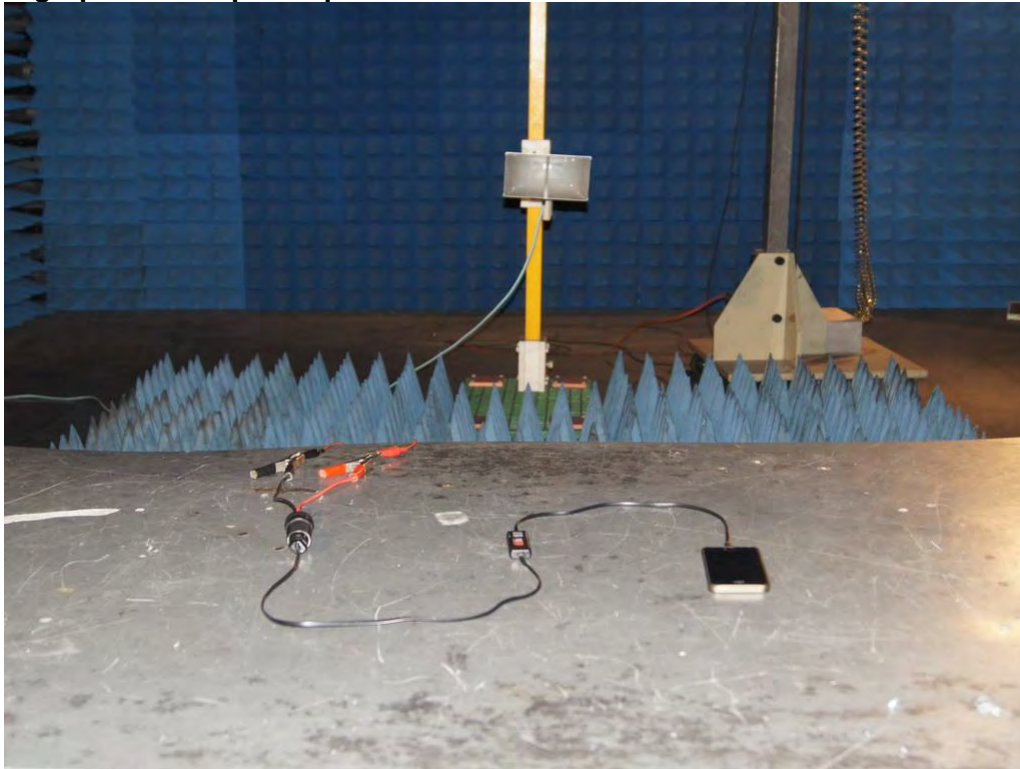
Photograph 1: Set-up for Spurious Emissions for below 30MHz



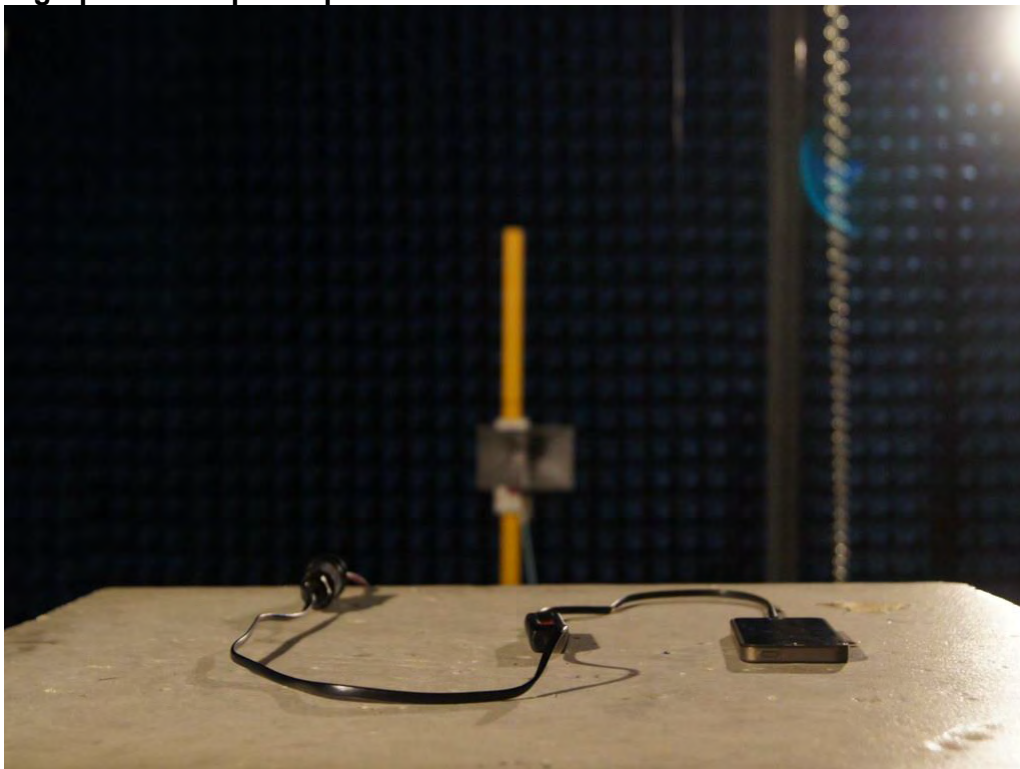
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



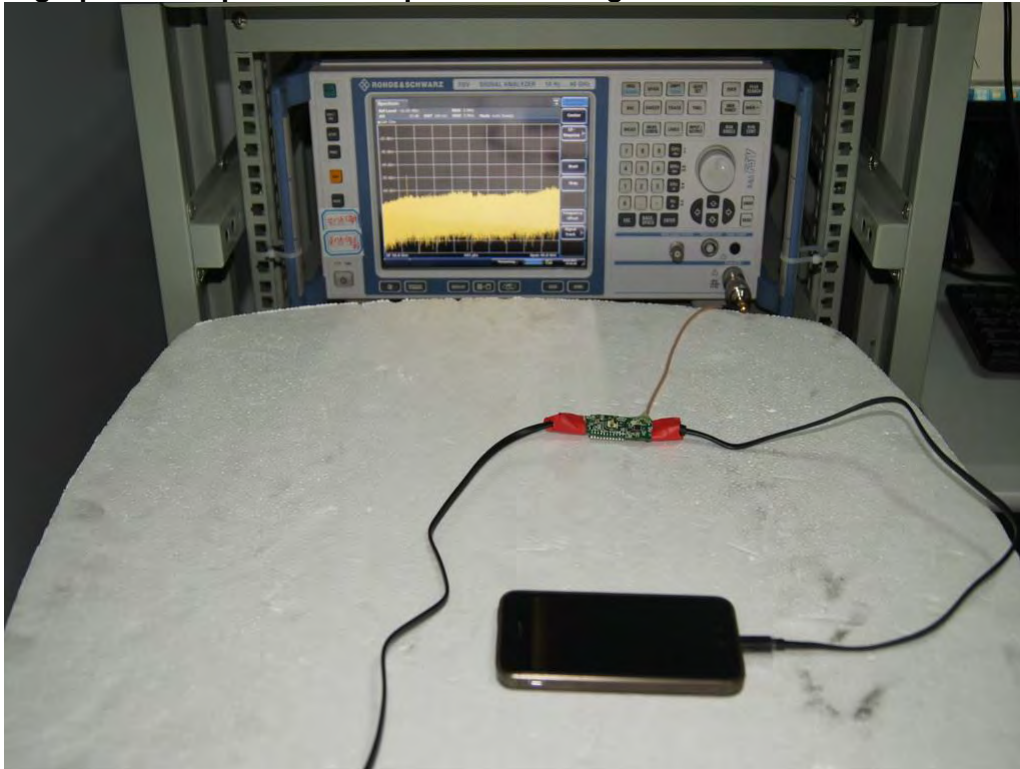
Photograph 3: Set-up for Spurious Emissions for 1 – 2GHz



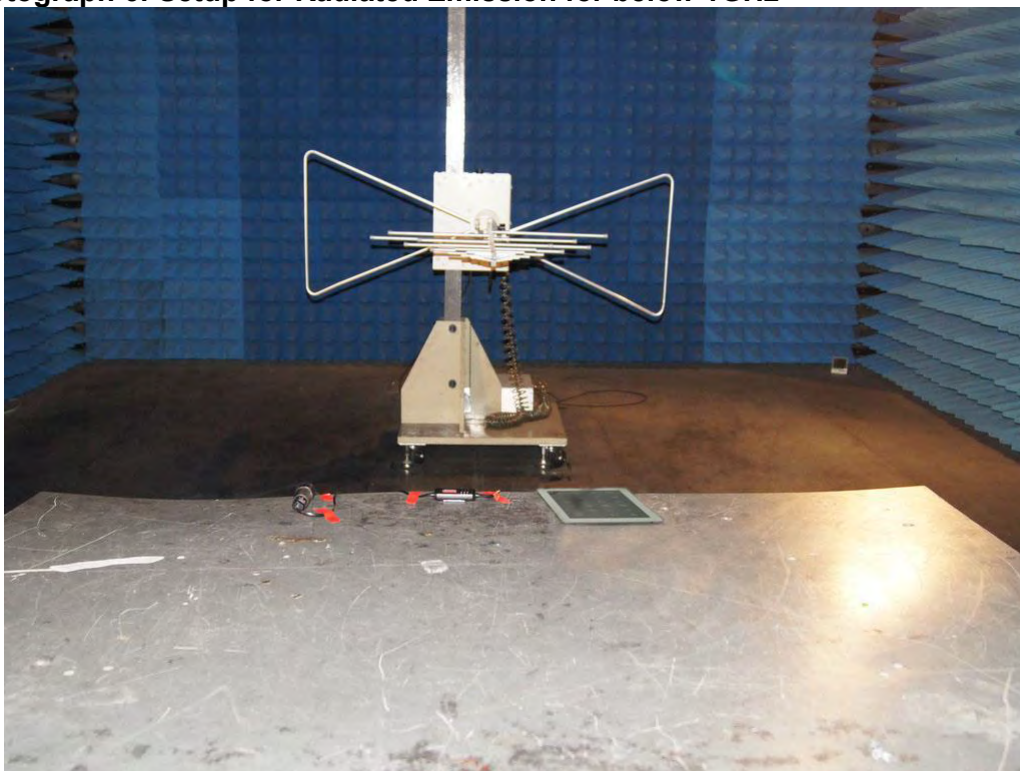
Photograph 4: Set-up for Spurious Emissions for 1 – 2GHz for IC



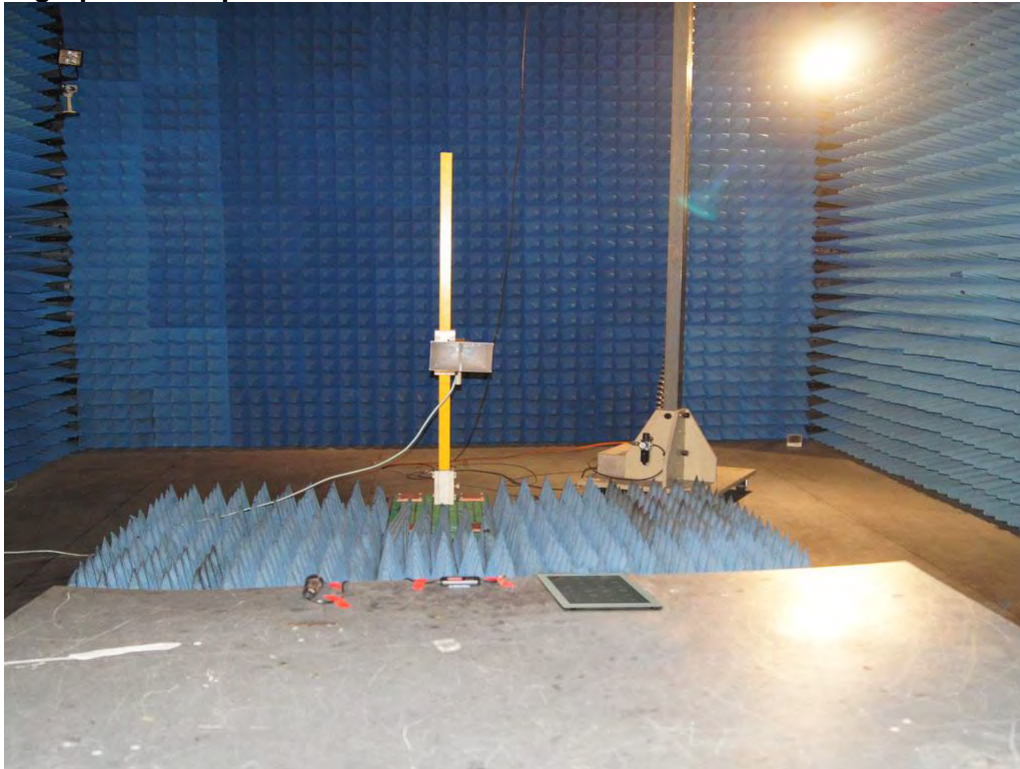
Photograph 5: Setup for Radio Spectrum testing



Photograph 6: Setup for Radiated Emission for below 1GHz



Photograph 7: Setup for Radiated Emission for above 1GHz



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