

# TEST REPORT

**FCC ID: 2AHTWFMT-9**

**Product: Bluetooth CAR FM TRANSMITTER**

**Model No.: FMT-9**

**Additional Model: FMT-10, FMT-11, FMT-12, FMT-13, FMT-14, FMT-15, FMT-16,  
FMT-17, FMT-18, FMT-19, FMT-20, FMT-21, FMT-22, FMT-23, FMT-24, FMT-25,  
FMT-26, FMT-27, FMT-28, FMT-29, FMT-30**

**Trade Mark: QFX**

**Report No.: TCT160324E019**

**Issued Date: Mar. 31, 2016**

Issued for:

**Max Deluxe Limited**

**Room 1101, 11th floor Concordia plaza, 1 Science Museum Road, Tsim Sha  
Tusi, Kowloon, Hong kong**

Issued By:

**Shenzhen Tongce Testing Lab.**

**1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China**

**TEL: +86-755-27673339**

**FAX: +86-755-27673332**

**Note:** This report shall not be reproduced except in full, without the written approval of Shenzhen Tongce Testing Lab.

This document may be altered or revised by Shenzhen Tongce Testing Lab. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

## **TABLE OF CONTENTS**

<b>1. Test Certification.....</b>	<b>3</b>
<b>2. Test Result Summary .....</b>	<b>4</b>
<b>3. EUT Description .....</b>	<b>5</b>
<b>4. Genera Information.....</b>	<b>6</b>
4.1. Test Environment and Mode.....	6
4.2. Description of Support Units.....	6
<b>5. Facilities and Accreditations .....</b>	<b>7</b>
5.1. Facilities .....	7
5.2. Location .....	7
5.3. Measurement Uncertainty.....	7
<b>6. Test Results and Measurement Data .....</b>	<b>8</b>
6.1. Antenna Requirement .....	8
6.2. Conducted Emission.....	9
6.3. Radiated Emission Measurement .....	10
6.4. Occupied Bandwidth.....	20

**Appendix A: Photographs of Test Setup**

**Appendix B: Photographs of EUT**

## 1. Test Certification

<b>Product:</b>	Bluetooth CAR FM TRANSMITTER
<b>Model No.:</b>	FMT-9
<b>Additional Model No.:</b>	FMT-10, FMT-11, FMT-12, FMT-13, FMT-14, FMT-15, FMT-16, FMT-17, FMT-18, FMT-19, FMT-20, FMT-21, FMT-22, FMT-23, FMT-24, FMT-25, FMT-26, FMT-27, FMT-28, FMT-29, FMT-30
<b>Applicant:</b>	Max Deluxe Limited
<b>Address:</b>	Room 1101, 11th floor Concordia plaza, 1 Science Museum Road, Tsim Sha Tusi, Kowloon, Hong kong
<b>Manufacturer:</b>	SAGE HUMAN ELECTRONICS INTERNATIONAL CO., LIMITED
<b>Address:</b>	3/F, BUILDING A, RONGLI INDUSTRY PARK, GUANLAN TOWN, LONGHUA NEW DISTRICT, SHENZHEN, CHINA
<b>Date of Test:</b>	Mar. 24 – Mar. 30, 2016
<b>Applicable Standards:</b>	FCC CFR Title 47 Part 15 Subpart C Section 15.239

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

SKY Luo

SKY Luo

Date:

Mar. 30, 2016

Reviewed By:

Joe Zhou

Joe Zhou

Date:

Mar. 31, 2016

Approved By:

Tomsin

Tomsin

Date:

Mar. 31, 2016

## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field strength of the fundamental signal	§15.239 (b)	PASS
Spurious emissions	§15.239 (b) (c)/ §15.209/ §2.1053	PASS
Occupied Bandwidth	§15.215 (c)/§2.1049	PASS

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 3. EUT Description

<b>Product Name:</b>	Bluetooth CAR FM TRANSMITTER
<b>Model :</b>	FMT-9
<b>Additional Model:</b>	FMT-10, FMT-11, FMT-12, FMT-13, FMT-14, FMT-15, FMT-16, FMT-17, FMT-18, FMT-19, FMT-20, FMT-21, FMT-22, FMT-23, FMT-24, FMT-25, FMT-26, FMT-27, FMT-28, FMT-29, FMT-30
<b>Trade Mark:</b>	QFX
<b>Operation Frequency:</b>	88.1-107.9MHz
<b>Channel Separation:</b>	100 kHz
<b>Number of Channel:</b>	199CH(See NOTE 2)
<b>Modulation Technology:</b>	FM
<b>Antenna Type:</b>	Internal Antenna
<b>Antenna Gain:</b>	0dBi
<b>Power Supply:</b>	DC 12V from battery
<b>Remark:</b>	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

#### Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	88.1MHz	--	--	--	--	199	107.9MHz
2	88.2MHz	99	97.9MHz	--	--		
--	--	100	98.0MHz	198	107.8MHz		

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	88.1MHz
The middle channel	97.1MHz
The Highest channel	107.9MHz

## 4. General Information

### 4.1. Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p>	

### 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Mobile Phone	A1586	/	BCG-E2816A	Apple
DC Power	GPR-3060D	EL864290	/	GWINSTEK

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 5. Facilities and Accreditations

### 5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

### 5.2. Location

Shenzhen TCT Testing Technology Co., Ltd.

Address: 1F, Building 1, Yibaolai Industrial Par Qiaotou Village, Fuyong Town Shenzhen, China

### 5.3. Measurement Uncertainty


The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$



## 6. Test Results and Measurement Data

### 6.1. Antenna Requirement

<b>Standard requirement:</b>	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<b>E.U.T Antenna:</b>	
<p>The FM antenna is a wire antenna which permanently attached, and the best case gain of the antenna is 0dBi.</p>	
	



## 6.2. Conducted Emission

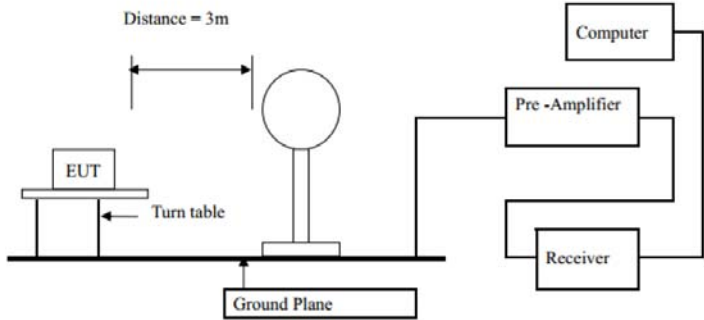
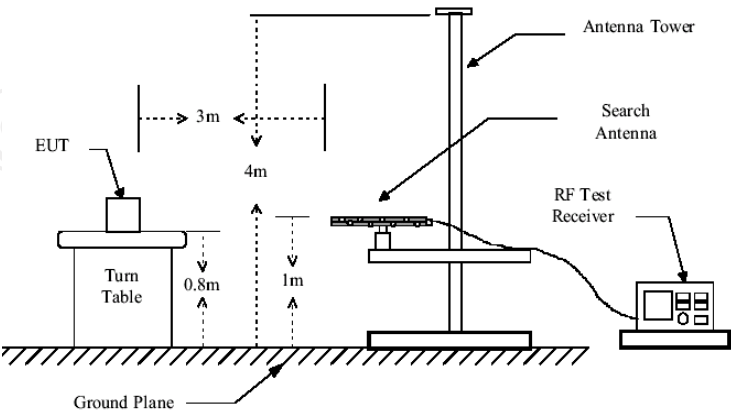
### 6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Frequency Range:	150 kHz to 30 MHz																
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test Setup:	<div><div><div>Reference Plane</div><div><div>LISN</div><div>AUX Equipment</div><div>E.U.T</div></div><div>40cm</div><div>80cm</div><div><div>LISN</div><div>Filter</div><div>EMI Receiver</div></div><div>AC power</div><div>Test table/Insulation plane</div></div><div><div>Remark</div><div>E.U.T: Equipment Under Test</div><div>LISN: Line Impedance Stabilization Network</div><div>Test table height=0.8m</div></div></div>																
Test Mode:	Refer to section 4.1 for details																
Test Procedure:	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div></div>																
Test Result:	The EUT is powered by car's power DC 12V, So not applicable.																

## 6.3. Radiated Emission Measurement

### 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209&Part 2 J Section 2.1053				
Test Method:	ANSI C63.10: 2013				
Frequency Range:	9 kHz to 1 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Limit(Field strength of the fundamental signal):	Frequency		Limit (dBuV/m @3m)		Remark
	88-108MHz		48		Average Value
			68		Peak Value
<b>Note:</b> <i>Fcc part15.239 (b) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.</i>					
Limit(Spurious Emissions):	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	<div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and</div>				

	<p>vertical polarizations of the antenna are set to make the measurement.</p> <ol style="list-style-type: none"> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
<p><b>Test setup:</b></p>	<p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p> 
<p><b>Test Mode:</b></p>	<p>Refer to section 4.1 for details</p>
<p><b>Test results:</b></p>	<p>PASS</p>

### 6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Coax cable	TCT	N/A	N/A	Sep. 12, 2016
Coax cable	TCT	N/A	N/A	Sep. 12, 2016
Coax cable	TCT	N/A	N/A	Sep. 12, 2016
Coax cable	TCT	N/A	N/A	Sep. 12, 2016
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.3.3. Test Data

#### Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
88.10	32.74(AV)	H	48	15.26
88.10	34.73(PK)	H	68	33.27
88.10	27.02(AV)	V	48	20.98
88.10	28.02(PK)	V	68	39.98

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
97.10	33.75(AV)	H	48	14.25
97.10	35.93(PK)	H	68	32.07
97.10	25.86(AV)	V	48	22.14
97.10	26.74(PK)	V	68	41.26

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
107.9	28.69(AV)	H	48	19.31
107.9	29.14(PK)	H	68	38.86
107.9	21.02(AV)	V	48	26.98
107.9	22.11(PK)	V	68	45.89

#### Spurious Emissions

##### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBuV/m)	Limit@3m (dBuV/m)
--	--	--
--	--	--
--	--	--
--	--	--

**Note:** 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

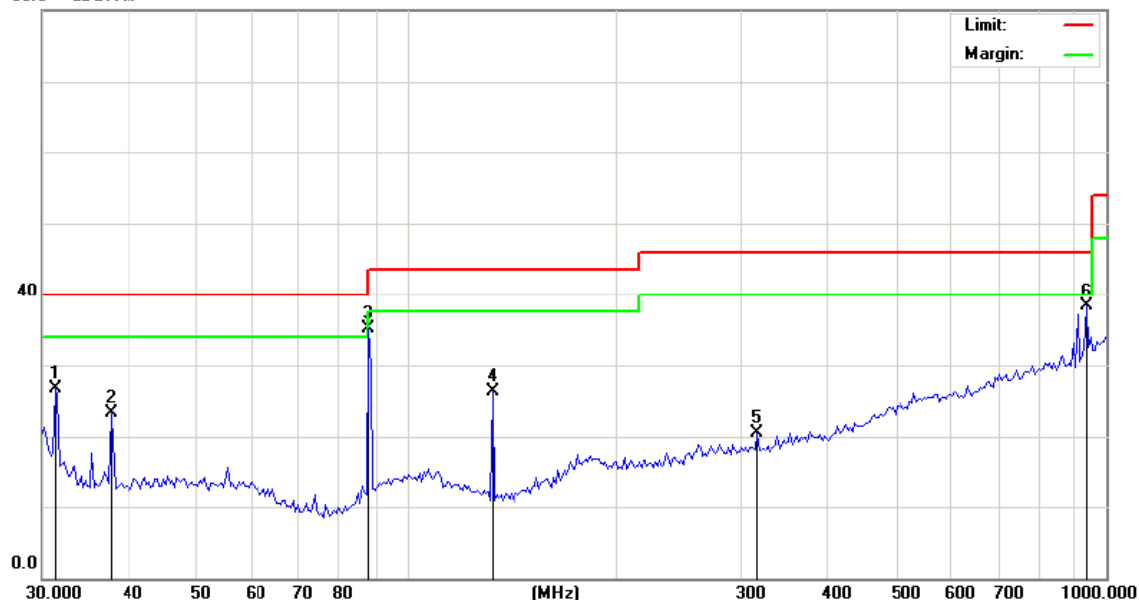
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

## Frequency Range (30MHz-1GHz)

88.10MHz

Horizontal:

80.0 dBuV/m



Site

Polarization: **Horizontal**

Temperature: 25

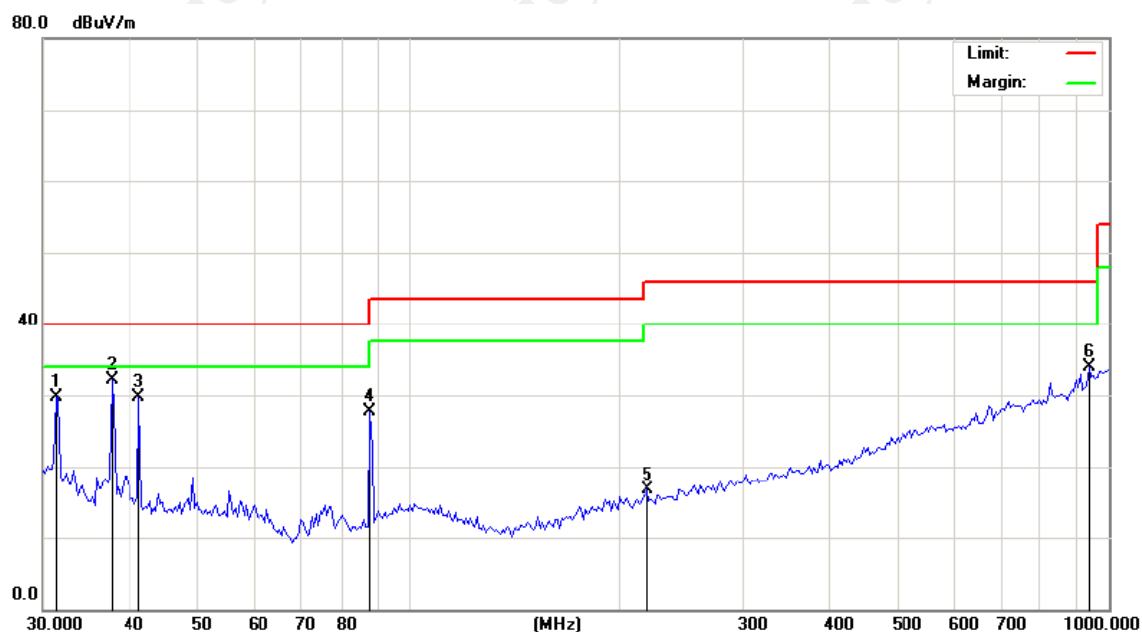
Limit: FCC Part 15B Class B RE\_3 m

Power: DC12V

Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		31.2918	40.17	-13.56	26.61	40.00	-13.39	peak	0	
2		37.5647	36.13	-12.78	23.35	40.00	-16.65	peak	0	
3	*	87.9136	48.72	-13.68	35.04	40.00	-4.96	peak	0	
4		132.1490	41.40	-15.11	26.29	43.50	-17.21	peak	0	
5		315.8600	28.50	-7.93	20.57	46.00	-25.43	peak	0	
6		938.7138	34.23	3.99	38.22	46.00	-7.78	peak	0	

Vertical:



Site: Limit: FCC Part 15B Class B RE\_3 m      Polarization: **Vertical**      Temperature: 25  
Power: DC12V      Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		31.2918	43.34	-13.56	29.78	40.00	-10.22	peak	0	
2	*	37.5647	44.88	-12.78	32.10	40.00	-7.90	peak	0	
3		41.1580	42.07	-12.43	29.64	40.00	-10.36	peak	0	
4		87.9136	41.48	-13.68	27.80	40.00	-12.20	peak	0	
5		219.1785	27.68	-11.02	16.66	46.00	-29.34	peak	0	
6		938.7138	29.88	3.99	33.87	46.00	-12.13	peak	0	



97.10MHz

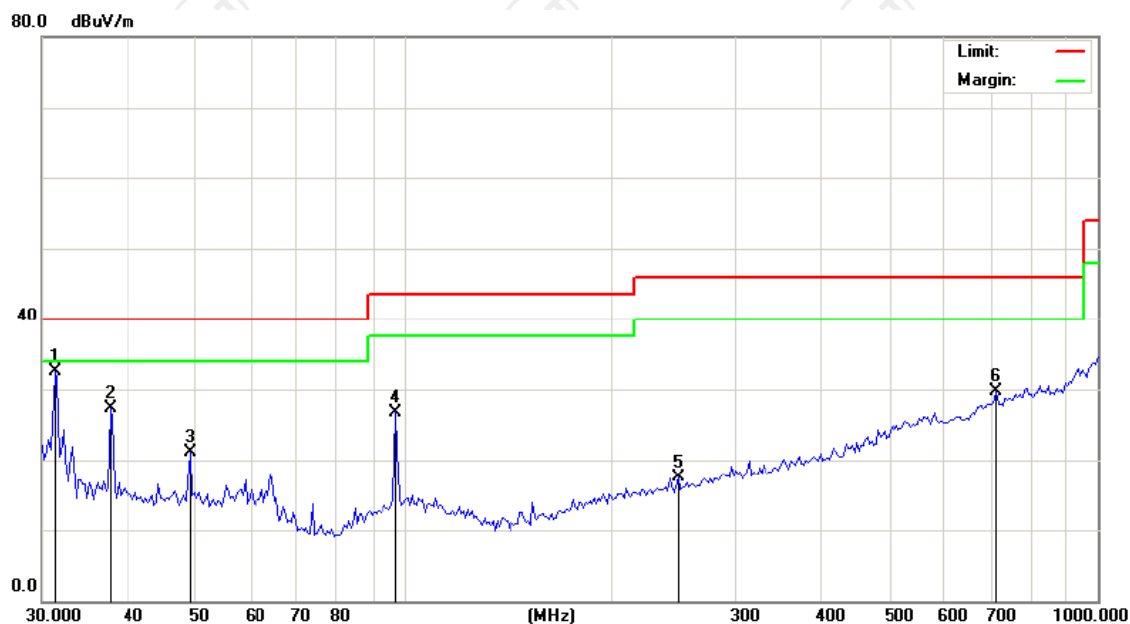
Horizontal:



Site: Polarization: **Horizontal** Temperature: 25  
 Limit: FCC Part 15B Class B RE\_3 m Power: DC12V Humidity: 54 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	31.2918	43.52	-13.56	29.96	40.00	-10.04	peak	0	
2		37.5647	35.76	-12.78	22.98	40.00	-17.02	peak	0	
3		97.0023	45.05	-11.90	33.15	43.50	-10.35	peak	0	
4		238.4626	28.82	-10.36	18.46	46.00	-27.54	peak	0	
5		531.2910	29.13	-2.64	26.49	46.00	-19.51	peak	0	
6		776.4850	28.30	1.15	29.45	46.00	-16.55	peak	0	

Vertical:

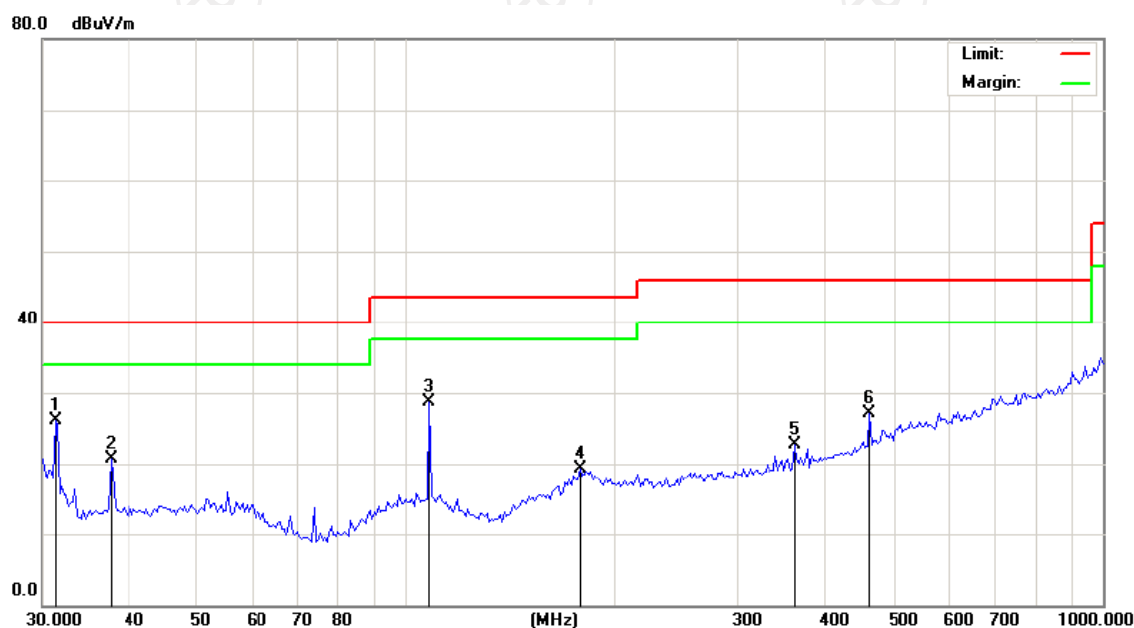


Site: Limit: FCC Part 15B Class B RE\_3 m Polarization: Vertical Temperature: 25  
Power: DC12V Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	31.2920	46.15	-13.56	32.59	40.00	-7.41	peak	0
2		37.5648	40.07	-12.78	27.29	40.00	-12.71	peak	0
3		49.0627	33.21	-12.08	21.13	40.00	-18.87	peak	0
4		97.0023	38.70	-11.90	26.80	43.50	-16.70	peak	0
5		248.7320	27.43	-10.01	17.42	46.00	-28.58	peak	0
6		713.6917	29.38	0.31	29.69	46.00	-16.31	peak	0

107.9MHz

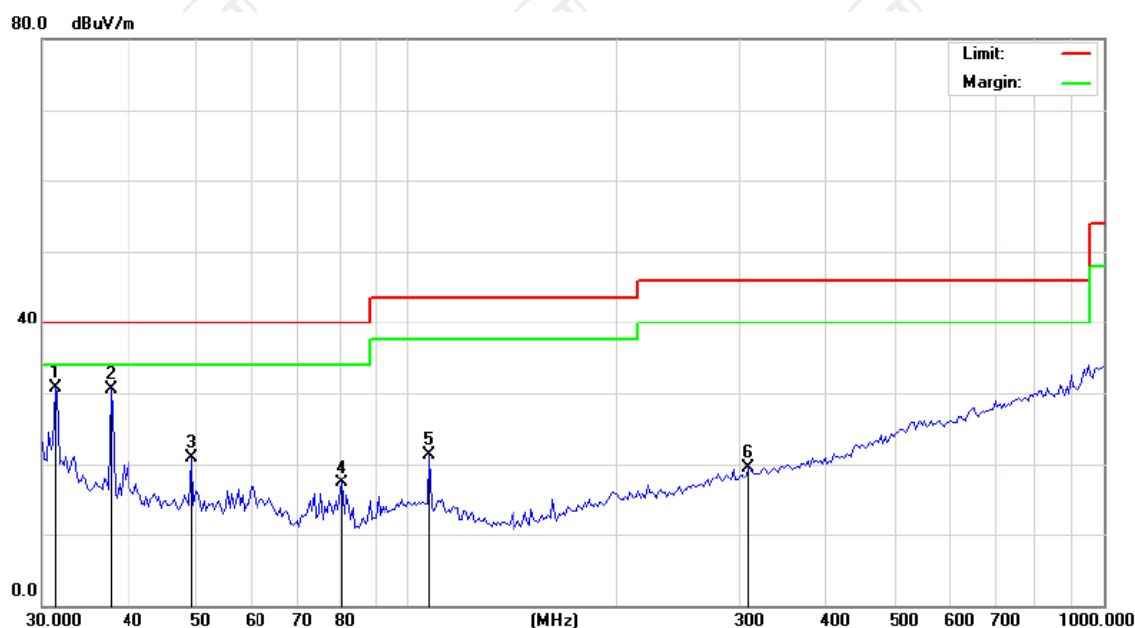
Horizontal:



Site: Polarization: **Horizontal** Temperature: 25  
Limit: FCC Part 15B Class B RE\_3 m Power: DC12V Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	31.2918	39.73	-13.56	26.17	40.00	-13.83	peak	0	
2		37.5647	33.44	-12.78	20.66	40.00	-19.34	peak	0	
3		107.7853	40.54	-11.86	28.68	43.50	-14.82	peak	0	
4		177.5178	32.46	-13.24	19.22	43.50	-24.28	peak	0	
5		360.9775	29.78	-6.99	22.79	46.00	-23.21	peak	0	
6		461.6313	31.24	-4.21	27.03	46.00	-18.97	peak	0	

Vertical:




Site: Polarization: **Vertical** Temperature: 25  
Limit: FCC Part 15B Class B RE\_3 m Power: DC12V Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	31.2918	44.22	-13.56	30.66	40.00	-9.34	peak	0	
2		37.5647	43.37	-12.78	30.59	40.00	-9.41	peak	0	
3		49.0626	32.95	-12.08	20.87	40.00	-19.13	peak	0	
4		80.8041	33.31	-16.07	17.24	40.00	-22.76	peak	0	
5		107.7853	33.10	-11.86	21.24	43.50	-22.26	peak	0	
6		309.2710	27.52	-8.07	19.45	46.00	-26.55	peak	0	

**Remark:** The data show that the restricted band (108-121.94 MHz) meet the limit requirement.

## 6.4. Occupied Bandwidth

### 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c) &Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	200kHz
Test Procedure:	<ol style="list-style-type: none"> <li>1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW <math>\geq</math> 1% of the 20 dB bandwidth; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>4. Measure and record the results in the test report.</li> </ol>
Test setup:	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

### 6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2016

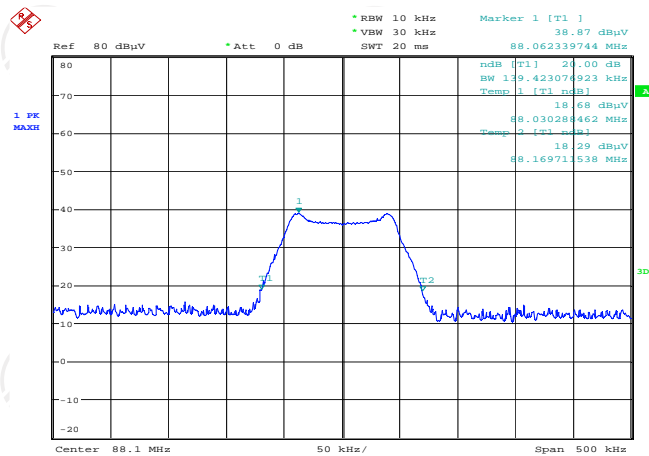
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

#### 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	139.42	200	PASS
Middle	146.63	200	PASS
Highest	142.63	200	PASS

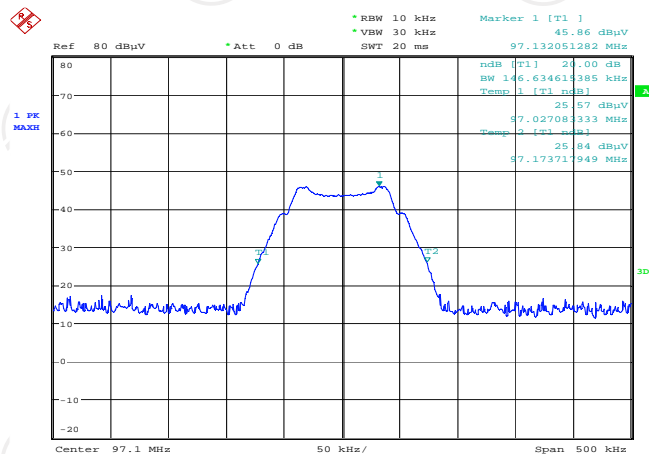
Test plots as follows:

## Lowest channel



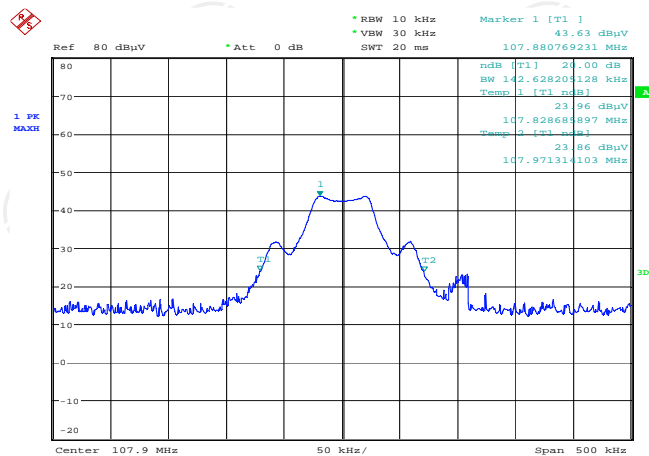
Date: 30.MAR.2016 12:06:31

## Middle channel



Date: 30.MAR.2016 12:02:17

## Highest channel



Date: 30.MAR.2016 12:03:48

\*\*\*\*\*END OF REPORT\*\*\*\*\*



## Appendix A: Photographs of Test Setup

Product: Bluetooth CAR FM TRANSMITTER

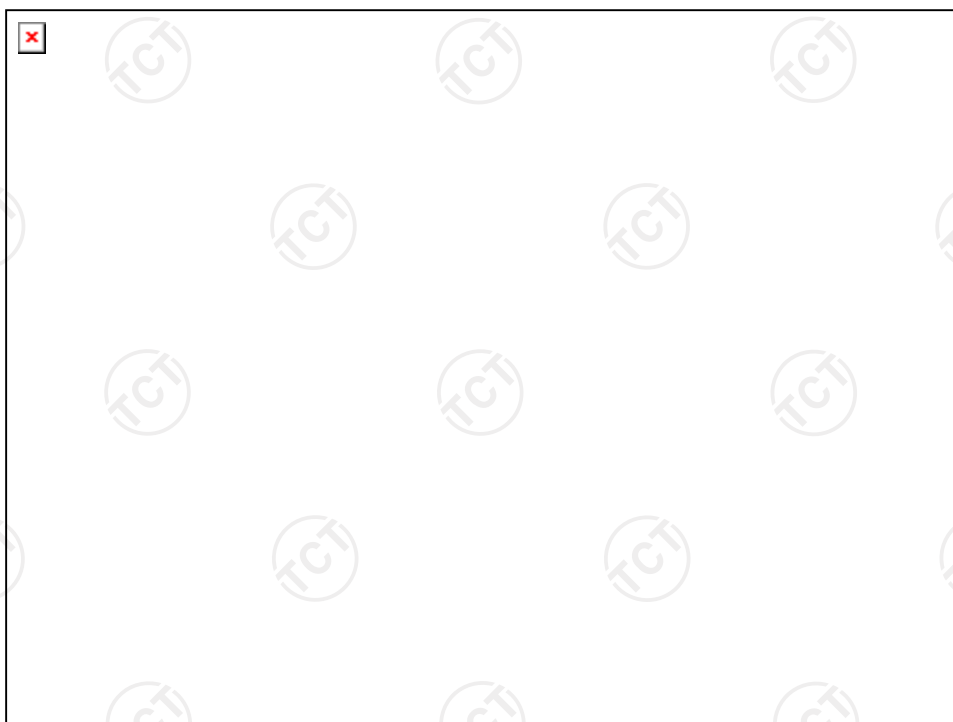
Model: FMT-9

Radiated Emission



**Appendix B: Photographs of EUT**  
**Product: Bluetooth CAR FM TRANSMITTER**  
**Model: FMT-9**  
**External Photos**









**Product: Bluetooth CAR FM TRANSMITTER**  
**Model: FMT-9**  
**Internal Photos**

