



OES TECHNOLOGY SERVICES CO., LTD.

OES Technology Services Co., Ltd.


6F, Baohe Building, Bao'an Blvd., Bao'an District, Shenzhen 518102, P.R. China

Report No.: OES1206F-105

Telephone: +86 (0) 755 82596373 Email: service@oestest.com

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FCC TEST REPORT

Applicant:	DYNAMIC8 Technology Co., Ltd 18D, Rainbow Bldg., Rainbow Plaza, Caitian Rd. South, Futian District, Shenzhen, China
Manufacturer:	Shenzhen DYNAMIC8 Technology Co., Ltd Unit 1, Diamond Garden, Bulan Road, Shanglilang, Buji Town, Longgang District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	iPhone FM Hands-free Transmitter
Model No.:	1109
Rating:	Play: DC 3.7V by battery Charge: DC 5V via USB
FCC-ID:	N8CDCC1109
Trade mark:	
Operation Frequency:	88.1MHz to 107.9MHz
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.239
Date of Receipt:	May 30, 2012
Date of Test:	May 31~Jun. 12, 2012
Date of Issue:	Jun. 14, 2012
Test Result :	PASS*

*

In the configuration tested, the EUT complied with the standards specified above.

Tested by:



Test Engineer (Hank Yan)

Inspected by:



EMC Engineer (Hans Hu)

Approved By:



Technical Manager (Terry Tian)

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Passed
AC Power Line Conducted Emission	15.207	Passed
Field strength of the fundamental signal	15.239 (a)	Passed
Spurious emissions	15.239 (c)/15.209	Passed
26dB Bandwidth	ANSI C63.4/15.239 (a)	Passed

Remark: 1>. Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

2>. Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

4 General Information

4.1 Client Information

Applicant:	DYNAMIC8 Technology Co., Ltd
Address of Applicant:	18D, Rainbow Bldg., Rainbow Plaza, Caitian Rd. South, Futian District, Shenzhen, China
Manufacturer/ Factory:	Shenzhen DYNAMIC8 Technology Co., Ltd
Address of Manufacturer/ Factory:	Unit 1, Diamond Garden, Bulan Road, Shanglilang, Buji Town, Longgang District, Shenzhen, China

4.2 General Description of E.U.T.

Product Name:	iPhone FM Hands-free Transmitter
Trade Name:	
Item No.:	1109
Operation Frequency:	88.1MHz~107.9MHz
Channel separation:	100KHz
Modulation type:	FM
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	Play: DC 3.7V by battery Charge: DC 5V via USB

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	98.1MHz
The Highest channel	107.9MHz

4.3 E.U.T Operation mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Normal operation mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

4.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology Service Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.5 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

4.6 Other Information Requested by the Customer

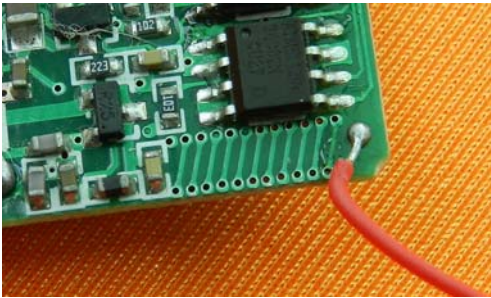
None.

4.7 Test Instruments list:

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2012	Mar. 30 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Sep. 10 2011	Sep. 10 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Sep. 10 2011	Sep. 10 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2012	June 30 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2012	Apr. 01 2013
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2012	Apr. 01 2013
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2012	Apr. 01 2013
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2012	Apr. 01 2013
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2012	Apr. 01 2013
12	Amplifier(10KHz-5GHz)	Sonnoma Instrument	305-1052	GTS210	Aug. 03 2011	Aug. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS231	Aug. 03 2011	Aug. 03 2012
14	Spectrum Analyzer	Agilent	E4443A	GTS040	Aug. 03 2011	Aug. 03 2012
15	Loop Antenna	ETS-Lindgren	6502	00082431	Apr. 14, 2011	Apr. 14, 2013

5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: <i>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.</i></p>	
E.U.T Antenna:	<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.</p> 

5.2 Conducted Emissions

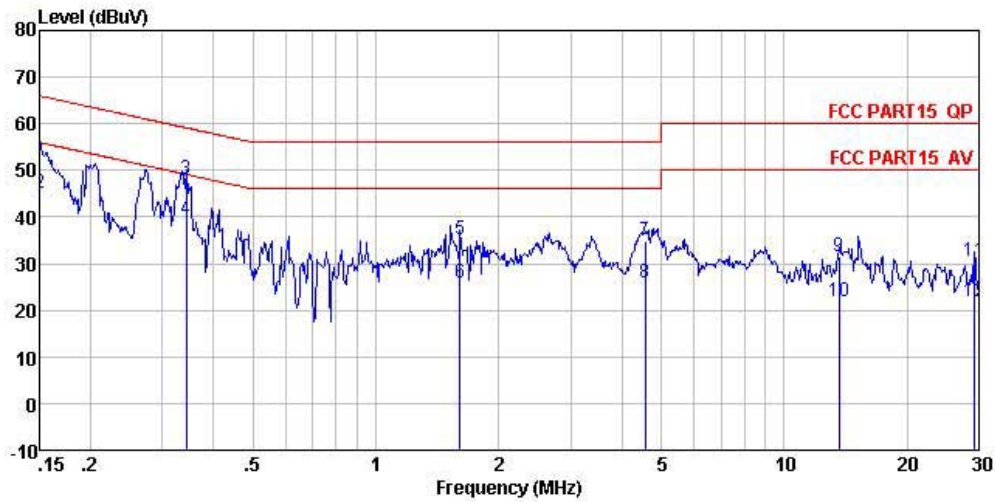
Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test mode:			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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 C63.4: 2003 on conducted measurement.		
Test setup:	<div><p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>		
Test Instruments:	Refer to section 4.7 for details		
Test results:	Passed		

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:

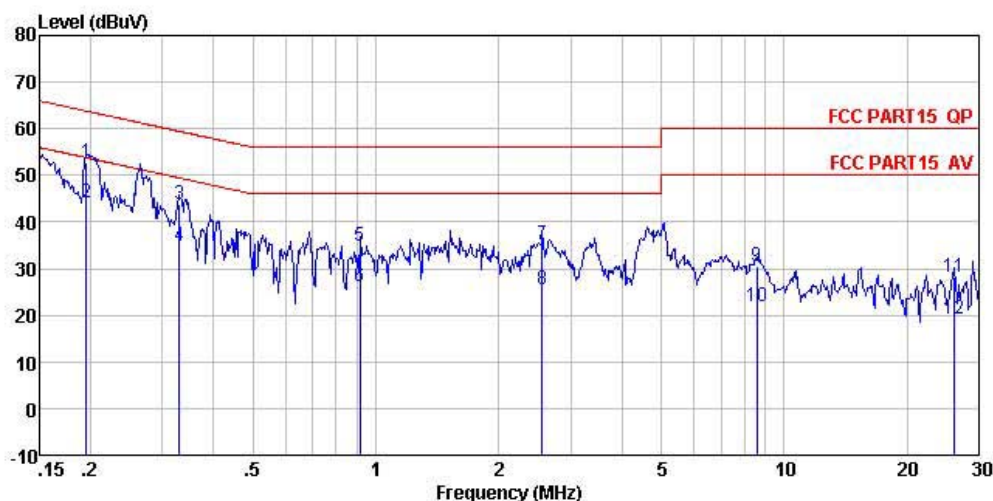


Condition : FCC PART15 QP LISN(2011) NEUTRAL
 Job No. : 596RF
 Test Mode : Charging
 Test Engineer: Hank

	Read Freq	Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	53.49	0.69	0.10	54.28	66.00	-11.72	QP
2	0.150	44.29	0.69	0.10	45.08	56.00	-10.92	Average
3	0.343	47.34	0.60	0.10	48.04	59.13	-11.09	QP
4	0.343	38.67	0.60	0.10	39.37	49.13	-9.76	Average
5	1.610	34.66	0.42	0.10	35.18	56.00	-20.82	QP
6	1.610	25.19	0.42	0.10	25.71	46.00	-20.29	Average
7	4.574	34.37	0.31	0.10	34.78	56.00	-21.22	QP
8	4.574	25.53	0.31	0.10	25.94	46.00	-20.06	Average
9	13.623	30.97	0.19	0.20	31.36	60.00	-28.64	QP
10	13.623	21.37	0.19	0.20	21.76	50.00	-28.24	Average
11	29.216	30.21	0.10	0.23	30.54	60.00	-29.46	QP
12	29.216	21.40	0.10	0.23	21.73	50.00	-28.27	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

Neutral Line:

Condition : FCC PART15 QP LISN(2011) LINE
 Job No. : 596RF
 Test Mode : Charging
 Test Engineer: Hank

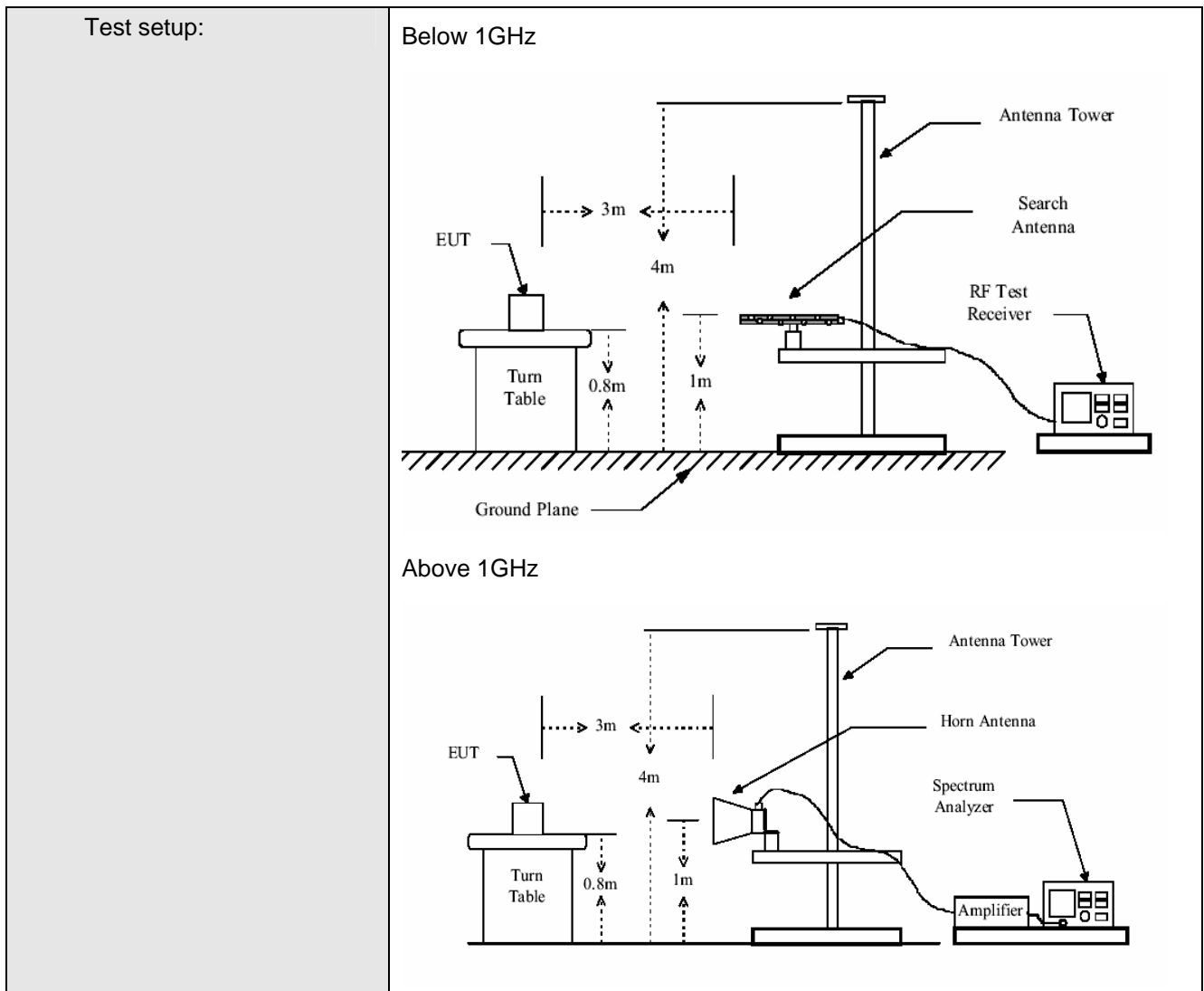
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.195	52.10	0.66	0.10	52.86	63.80	-10.94	QP
2	0.195	43.29	0.66	0.10	44.05	53.80	-9.75	Average
3	0.330	43.11	0.60	0.10	43.81	59.44	-15.63	QP
4	0.330	34.17	0.60	0.10	34.87	49.44	-14.57	Average
5	0.914	34.40	0.49	0.10	34.99	56.00	-21.01	QP
6	0.914	25.56	0.49	0.10	26.15	46.00	-19.85	Average
7	2.554	34.57	0.37	0.10	35.04	56.00	-20.96	QP
8	2.554	25.17	0.37	0.10	25.64	46.00	-20.36	Average
9	8.592	30.01	0.24	0.19	30.44	60.00	-29.56	QP
10	8.592	21.43	0.24	0.19	21.86	50.00	-28.14	Average
11	26.001	27.86	0.12	0.21	28.19	60.00	-31.81	QP
12	26.001	18.82	0.12	0.21	19.15	50.00	-30.85	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

5.3 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.239 and 15.209																			
Test Method:	ANSI C63.4																			
Test Frequency Range:	9KHz to 1100MHz																			
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																			
Receiver setup:																				
	Frequency	Detector	RBW	VBW	Remark															
	9KHz-30MHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value															
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value															
	Above 1GHz	Peak	1MHz	3MHz	Peak Value															
Peak		1MHz	3MHz	Average Value																
Limit: (Field strength of the fundamental signal)																				
	Frequency	Limit (dBuV/m @3m)		Remark																
	88.1MHz-107.9MHz	48.0		Average Value																
68.0		Peak Value																		
Limit: (Spurious Emissions)																				
	Frequency	Limit (dBuV/m @3m)		Remark																
	9KHz-30MHz	69.5		Quasi-peak Value																
	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																
	Above 1GHz	54.0		Average Value																
74.0		Peak Value																		
Test mode:																				
Test Procedure:	1>. The E.U.T and its simulators are placed on a turn table which is 0.8meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.																			
	2>. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4 on radiated measurement.																			
	3>. has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows																			
	<table><tr><td colspan="5">Pre-Test Mode:</td></tr><tr><td>Axis</td><td>X</td><td>Y</td><td>Z</td><td></td></tr><tr><td>Field Strength(dBuV/m)</td><td>32.09</td><td>33.19</td><td>32.58</td><td></td></tr></table>					Pre-Test Mode:					Axis	X	Y	Z		Field Strength(dBuV/m)	32.09	33.19	32.58	
	Pre-Test Mode:																			
Axis	X	Y	Z																	
Field Strength(dBuV/m)	32.09	33.19	32.58																	
<table><tr><td colspan="5">Final Test Mode:</td></tr><tr><td colspan="5">According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”</td></tr><tr><td colspan="5">Y axis</td></tr></table>					Final Test Mode:					According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”					Y axis					
Final Test Mode:																				
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”																				
Y axis																				
Test Instruments:	Refer to section 4.7 for details																			
Test results:	Passed																			



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Measurement Data**5.3.1 Field Strength Of The Fundamental Signal**

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.1	60.63	14.6	1.1	31.73	44.6	68.00	-23.4	Horizontal
88.1	58.3	16.1	1.18	31.8	43.78	68.00	-24.22	Vertical
98.1	60.5	16.1	1.18	31.75	46.03	68.00	-21.97	Horizontal
98.1	58.3	16.1	1.18	31.75	43.83	68.00	-24.17	Vertical
107.9	53.56	14.95	1.26	31.8	37.97	68.00	-30.03	Horizontal
107.9	57.63	14.95	1.26	31.8	42.04	68.00	-25.96	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.1	60.59	14.6	1.1	31.73	44.56	48.00	-3.44	Horizontal
88.1	58.12	16.1	1.18	31.8	43.6	48.00	-4.4	Vertical
98.1	59.95	16.1	1.18	31.75	45.48	48.00	-2.52	Horizontal
98.1	57.63	16.1	1.18	31.75	43.16	48.00	-4.84	Vertical
107.9	53.21	14.95	1.26	31.8	37.62	48.00	-10.38	Horizontal
107.9	57.14	14.95	1.26	31.8	41.55	48.00	-6.45	Vertical

5.3.2 Spurious Emissions

Data (From 9KHz ~ 30MHz)

Test mode:	Transmitting	Test channel:	Lowest
------------	--------------	---------------	--------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
7.58	52.13	5.15	0.28	25.31	32.25	69.5	-37.25	-
15.22	51.30	5.32	0.35	25.58	31.39	69.5	-38.11	-
22.79	51.45	5.58	0.41	25.62	31.82	69.5	-37.68	-

Test mode:	Transmitting	Test channel:	Middle
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
7.60	52.05	5.15	0.28	25.31	32.17	69.5	-37.33	-
15.20	53.10	5.32	0.35	25.58	33.19	69.5	-36.31	-
22.79	49.71	5.58	0.41	25.62	30.08	69.5	-39.42	-

Test mode:	Transmitting	Test channel:	Highest
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
7.60	49.70	5.15	0.28	25.31	29.82	69.5	-39.68	-
15.20	50.96	5.32	0.35	25.58	31.05	69.5	-38.45	-
22.79	49.46	5.58	0.41	25.62	29.83	69.5	-39.67	-

Data (From 30MHz ~ 1GHz)

Test mode:	Transmitting	Test channel:	Lowest
------------	--------------	---------------	--------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
176.47	58.26	12.55	1.72	32.07	40.46	43.5	-3.04	Horizontal
264.74	57.69	15.26	2.19	32.17	42.97	46	-3.03	Horizontal
353.01	47.77	16.35	2.64	32.02	34.74	46	-11.26	Horizontal
441.28	42.69	17.56	3.05	31.75	31.55	46	-14.45	Horizontal
528.58	49.72	19.2	3.44	31.4	40.96	46	-5.04	Horizontal
215.27	58.08	14.09	1.93	32.15	41.95	43.5	-1.55	Vertical
323.91	54.18	16.3	2.49	32.1	40.87	46	-5.13	Vertical
431.58	51.1	17.53	3.01	31.78	39.86	46	-6.14	Vertical
540.22	44.77	19.41	3.48	31.35	36.31	46	-9.69	Vertical

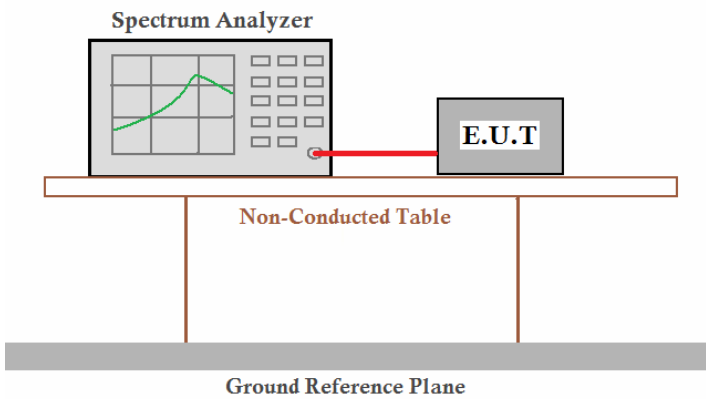
Test mode:	Transmitting	Test channel:	Middle
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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
195.822	57.01	13.57	1.82	32.13	40.27	43.5	-3.23	Horizontal
294.114	54.92	15.98	2.33	32.18	41.05	46	-4.95	Horizontal
392.095	51.51	16.92	2.82	31.91	39.34	46	-6.66	Horizontal
490.745	51.32	18.39	3.26	31.59	41.38	46	-4.62	Horizontal
588.905	43.7	20.29	3.68	31.09	36.58	46	-9.42	Horizontal
195.822	55.28	13.57	1.82	32.13	38.54	43.5	-4.96	Vertical
294.114	55.22	15.98	2.33	32.18	41.35	46	-4.65	Vertical
490.745	49.81	18.39	3.26	31.59	39.87	46	-6.13	Vertical
588.905	44.81	20.29	3.68	31.09	37.69	46	-8.31	Vertical

Test mode:	Transmitting	Test channel:	Highest
------------	--------------	---------------	---------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
215.27	57.46	14.09	1.93	32.15	41.33	43.5	-2.17	Horizontal
323.91	54.9	16.3	2.49	32.1	41.59	46	-4.41	Horizontal
431.58	54.44	17.53	3.01	31.78	43.2	46	-2.8	Horizontal
539.25	47.12	19.39	3.48	31.35	38.64	46	-7.36	Horizontal
195.822	55.28	13.57	1.82	32.13	38.54	43.5	-4.96	Vertical
294.114	55.22	15.98	2.33	32.18	41.35	46	-4.65	Vertical
490.745	49.81	18.39	3.26	31.59	39.87	46	-6.13	Vertical
588.905	44.81	20.29	3.68	31.09	37.69	46	-8.31	Vertical

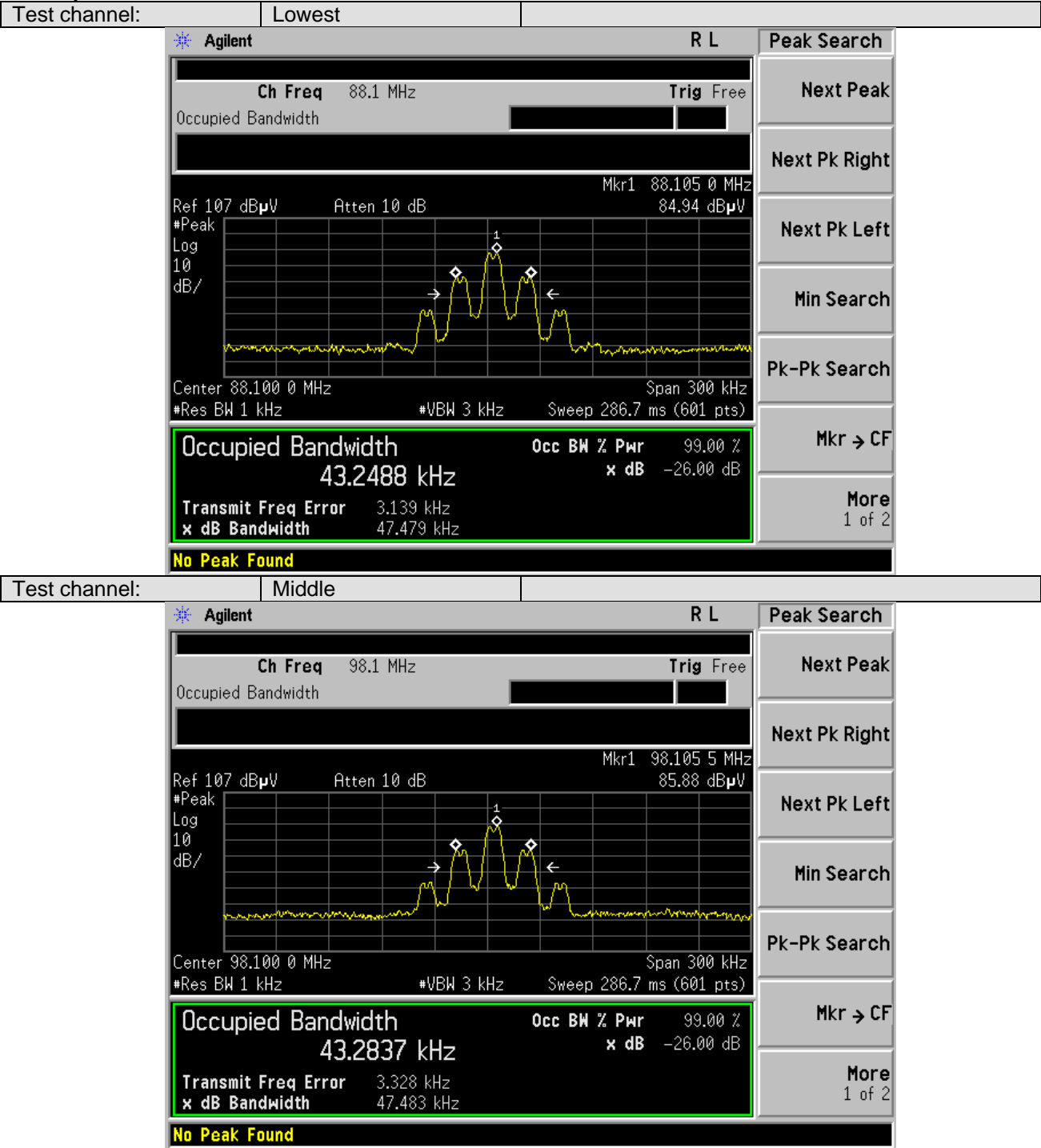
5.4 26dB Bandwidth

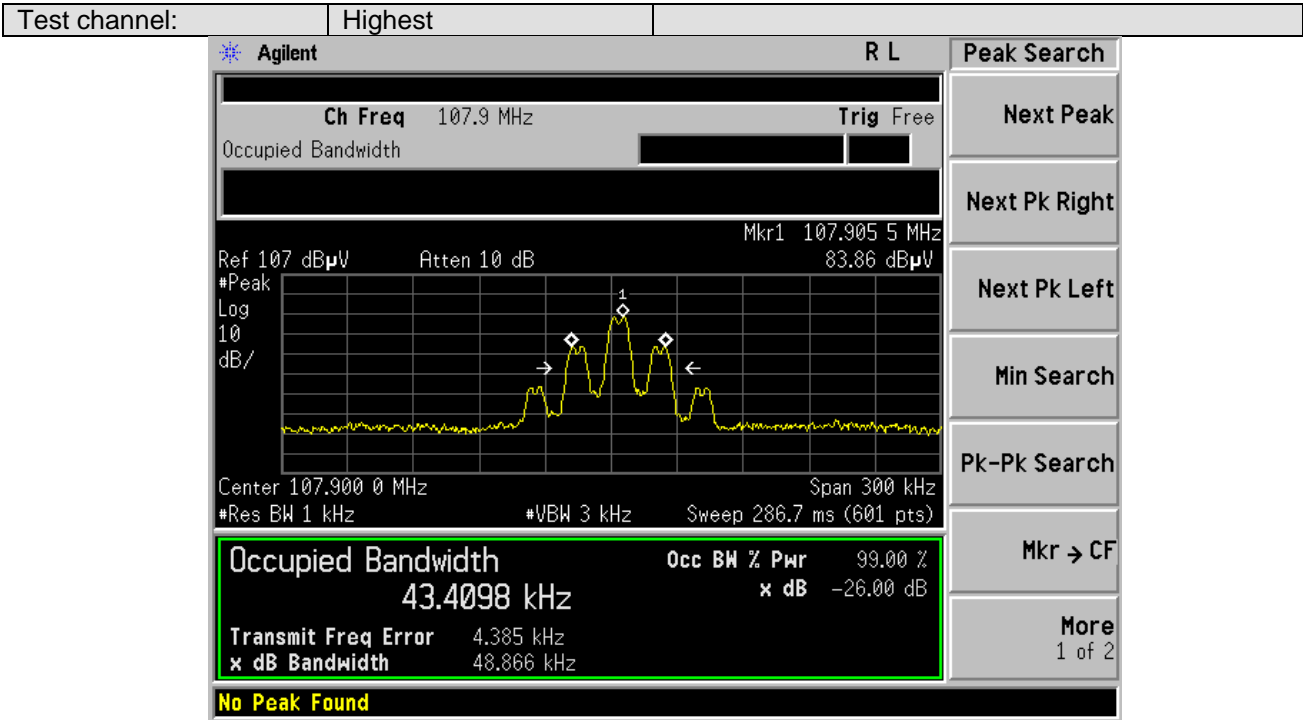
Test Requirement:	FCC Part15 C Section 15.239 (a)
Test Method:	ANSI C63.4
Receiver setup:	RBW=10KHz, VBW=30KHz, detector: Peak
Limit:	Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -26dB upper and lower frequency points. 4. Read the frequency delta value between the -26dB upper and lower frequency points.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Transmitting
Test results:	Passed

Measurement Data

Test channel	26dB bandwidth(KHz)	Limit(KHz)
Lowest	43.2488	200
Middle	43.2837	200
Highest	43.4098	200

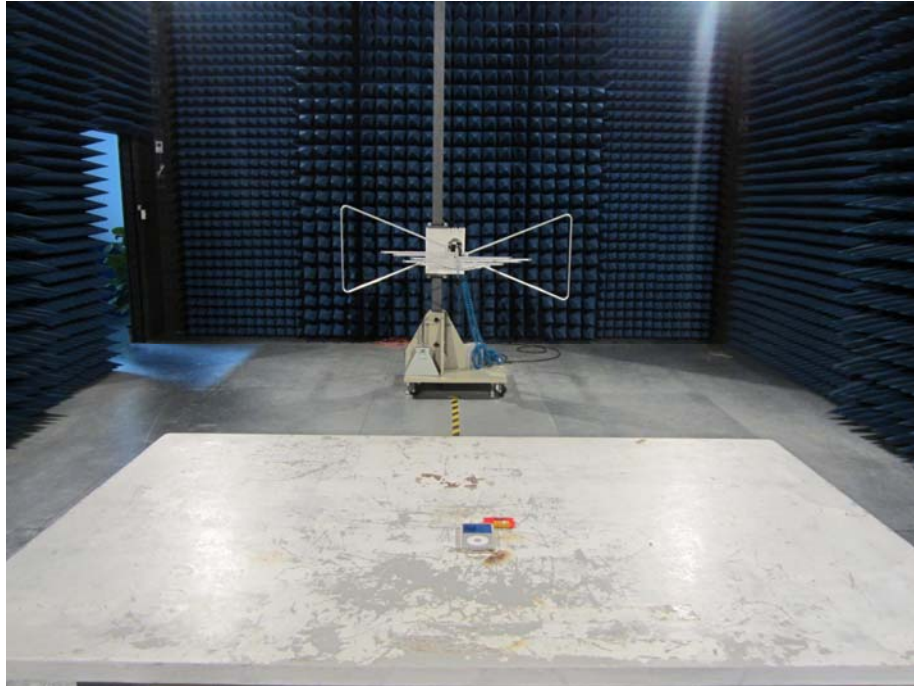
Test plot as follows:





6 Photographs-test setup photo

Radiated Emission



Conducted Emission



7 Photographs - EUT Constructional Details

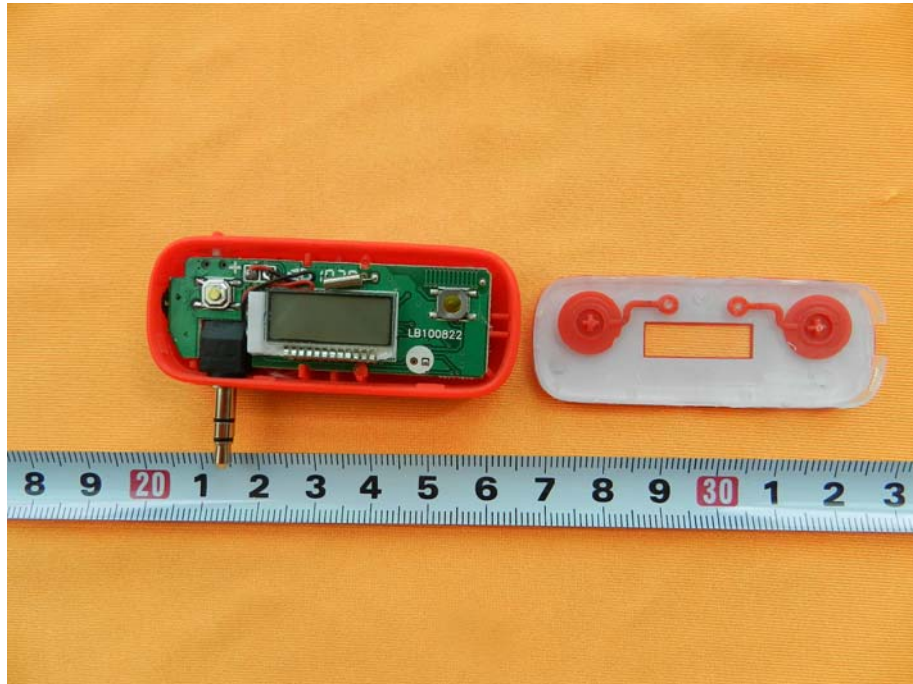
EUT- Front View



EUT- Back View



EUT- Inside View



EUT- Inside View

