
FCC Test Report

Report No.: AGC087120801-2F2

FCC ID : N4YF28

PRODUCT DESIGNATION : FM transmitter

BRAND NAME : N/A

TEST MODEL : F28

CLIENT : Shen zhen Onuoda Electronics Technology Co., Ltd

DATE OF ISSUE : Sep. 4, 2012

STANDARD(S) : FCC Part 15 Rules

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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1. VERIFICATION OF COMPLIANCE

Applicant:	Shen zhen Onuoda Electronics Technology Co., Ltd
Applicant Address:	3F D Building jingfu industry zone Airway(west) Gushu village xixiang town Bao'an district Shenzhen city Guangdong China
Manufacturer:	Shen zhen Onuoda Electronics Technology Co., Ltd
Manufacturer Address:	3F D Building jingfu industry zone Airway(west) Gushu village xixiang town Bao'an district Shenzhen city Guangdong China
Product Description:	FM transmitter
Brand Name:	N/A
Model Name:	F28
FCC ID:	N4YF28
Report Number:	AGC087120801-3F2
Date of Test:	Aug.23-Aug.29, 2012

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2003. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared By



Wall Huang

Sep.4, 2012

Checked By



Forrest Lei

Sep.4, 2012

Authorized By



Solger Zhang

Sep.4, 2012

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)

EUT Designation:	FM transmitter
Brand Name:	N/A
Model Name:	F28
Rated Voltage:	DC 12V by Vehicle Charger
Frequency Range:	88.1-107.9 MHz
Channel Separation:	0.1 MHz
Tuning Range:	The Tuning Range of the EUT was assessed and confirmed by the test engineer that it can only be tuned from 88.1 MHz to 107.9 MHz with 0.1 MHz step. It can't be tuned to any other Frequency which over this band
Modulation Type:	FM
Type of Antenna:	Integrated Antenna
<p>**Note: For more information refer to the circuit diagram form and the user's manual. The EUT will cease transmit when stop audio signal.</p>	

2.2. TEST STANDARDS

The following report of is prepared on behalf of the Attestation of Global Compliance Co., Ltd. in accordance with FCC Part 15, Subpart C, and section 15.239, 15.203 and 15.209 of the Federal Communication Commission rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.239, 15.203 and 15.209 of the Federal Communication Commission rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: N4YF28** filing to comply with Section 15.239 of the FCC Part 15, Subpart C Rules.

2.4. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

The EUT connected to the Audio Source (Mobile Phone, Nokia 5130) via the Audio Plug, the MP3 files which stored in the Mobile Phone was played with the max volume. During All measurements, the EUT and Audio Source were observed that they are active.

2.5. TEST FACILITY

All measurement facilities used to collect the measurement data are located at

Attestation of Global Compliance (Shenzhen) Co., Ltd.

(1&2F, No.2 Building, Huafeng No.1 Technical, Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen, China)

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC register No.: 259865

2.6. EUT EXERCISE SOFTWARE

The EUT exercise program used during the testing was designed to exercise the system components. The test software is started while the EUT system is on.

2.7. ACCESSORIES EQUIPMENT LIST AND DETAILS

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Mobile	Nokia	5130	N/A	N/A	N/A

2.8. EUT PORT&CABLE LIST AND DETAILS

I/O Port Type	Q'TY	Cable	Tested with
--	--	--	--

3. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.203 Antenna Requirement	Compliant
§15.209 General Requirement	Compliant
§15.239 (a) Emission Bandwidth Testing	Compliant
§15.239 (b) Radiated Emission	Compliant
§15.239 (c) Out of band emission Testing	Compliant

4 TEST MODES

No.	Test modes
1	88.1MHZ TX
2	98.1MHZ TX
3	107.9MHZ TX

Above 3 modes have performed at maximum emission conditions.
only the worst mode data recorded in the test report.

4. § 15.203 - ANTENNA REQUIREMENT

4.1. STANDARD APPLICABLE

According to FCC 15.203, 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 shall be considered sufficient to comply with the provisions of this Section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

4.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

5. §15.209, §15.239 (b)(c)- RADIATED EMISSION

5.1. MEASUREMENT UNCERTAINTY

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is +/-3.2 dB.

5.2. STANDARD APPLICABLE

According to §15.239(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 §15.35 for limiting peak emissions apply.

According to §15.239(c), The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in §15.209.

5.3. TEST EQUIPMENT LIST AND DETAILS

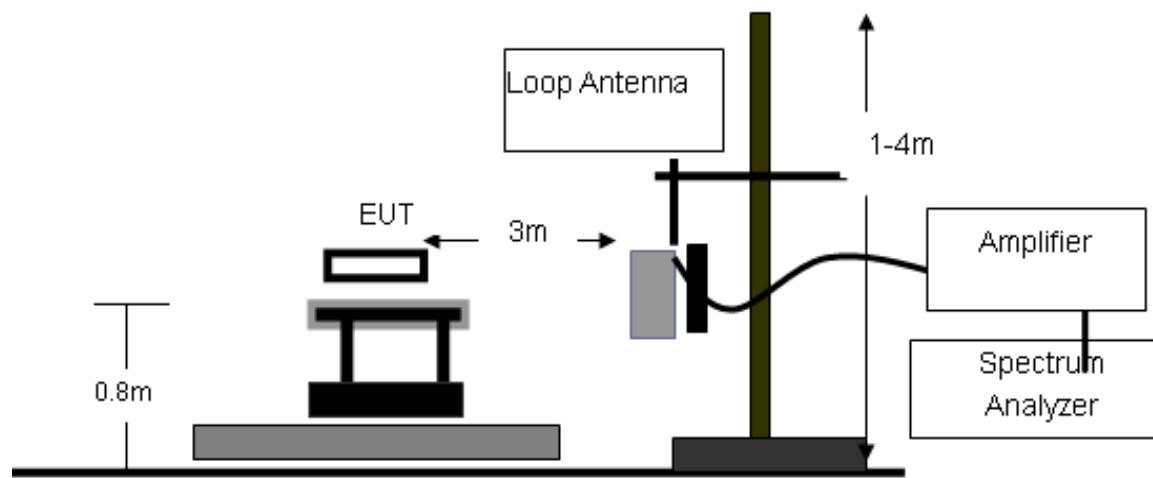
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/18/2012	07/17/2013
LOOP ANTENNA	A.H.	SAS-521-4	128	07/18/2012	07/17/2013
BROADBAND ANTENNA	A.H.	EHA-51B	N/A	07/18/2012	07/17/2013
HORN ANTENNA	EM	EM-AH-10180	N/A	07/18/2012	07/17/2013
AMPLIFIER	EM	EM30180	0607030	07/18/2012	07/17/2013
COAXIAL CABLE	SCHWARZBECK	AK9513	9513-10	07/18/2012	07/17/2013
POSITIONING CONTROLLER	MF	MF-7802	MF780208147	07/18/2012	07/17/2013

5.4. TEST PROCEDURE

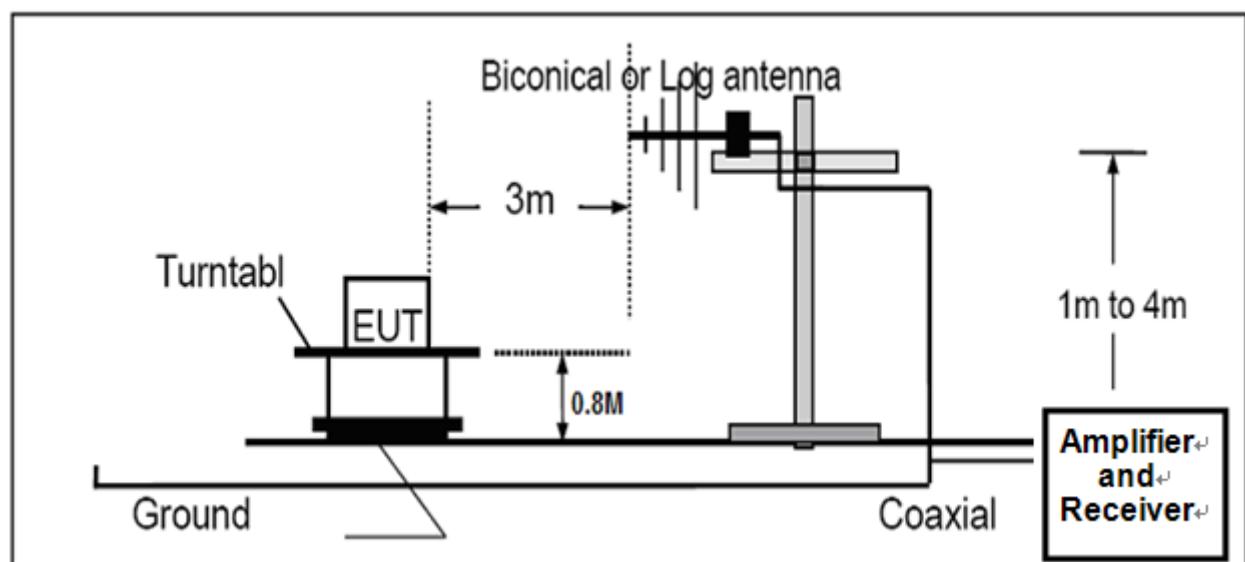
The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.239(b) and FCC Part 15.209 Limit.

5.5. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

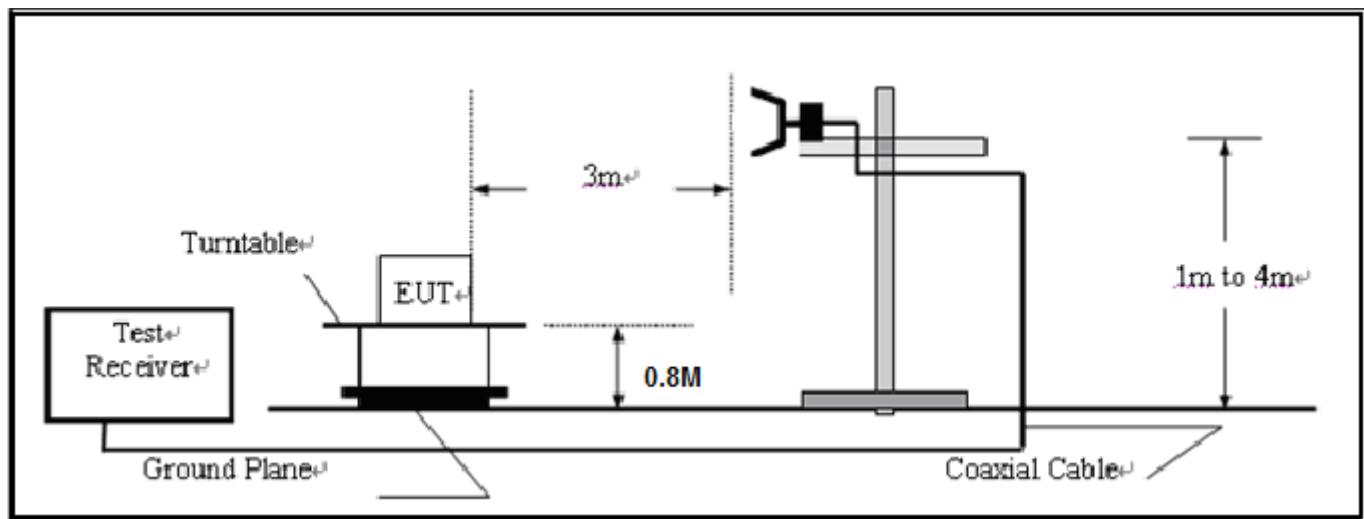
BELOW 30MHz:



30MHz-1000MHz:



ABOVE 1000MHz:



5.6. LIMITS AND TEST RESULTS/PLOTS

RADIATED EMISSION LIMITS:			
Frequency (MHz)	Field Strength		Measurement Distance (meters)
	uV/m	dB uV/m	
0.009 - 0.490	2400/F(kHz)	*	300
0.490 - 1.705	24000/F(kHz)	*	300
1.705 - 30.0	30	29.5	30
30 - 88	100**	40	3
88 - 216	150**	43.5	3
216 - 960	200**	46	3
Above 960	500	54	3
Carrier frequency	250	48(AVG)	3
Carrier frequency		68(Peak)	3

Notes:

*Emission Level(dB uV/m)=20log Emission Level(uV/m);

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

TEST RESULT OF RADIATED EMISSION TEST (9KHZ-30MHZ)

Freq. (MHz)	Level (dB uV)	Over Limit (dB)	Limit Line (dB uV)	Remark
--	--	--	--	Seen to Note

**Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be report.

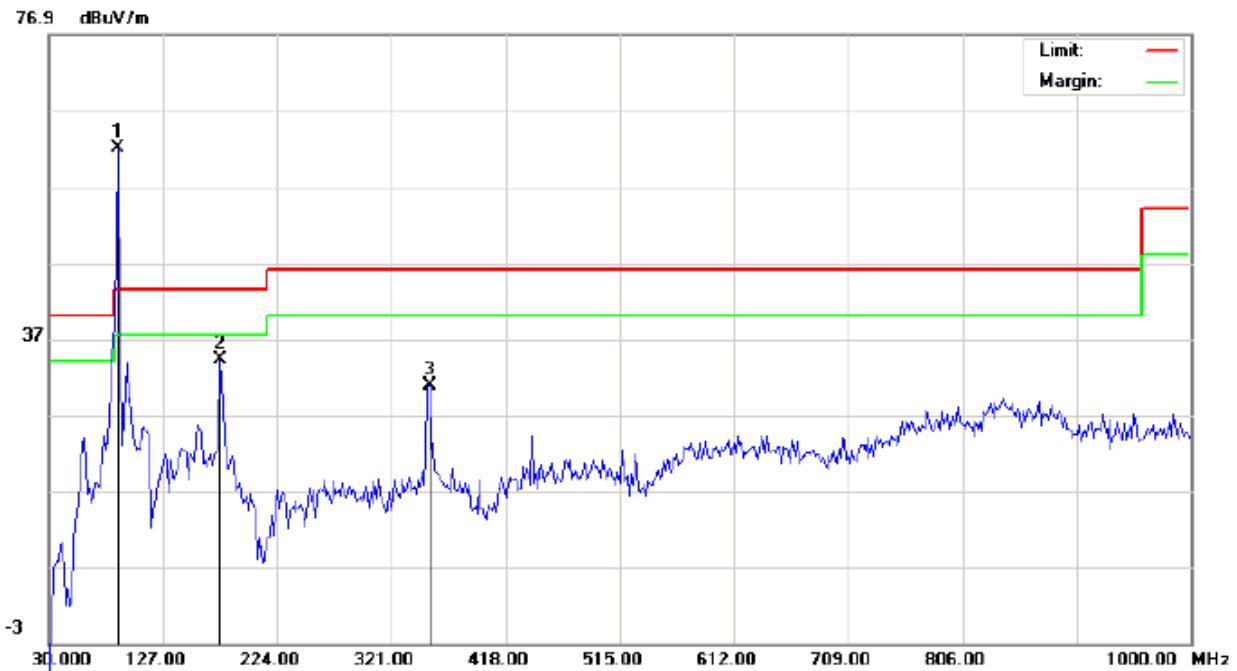
Distance extrapolation factor=40 log(specific distance/test distance)(dB);

Limit line=specific limits(dBuV)+distance extrapolation factor.

TEST RESULT OF RADIATED EMISSION TEST (30MHZ-1GHZ)

Horizontal:

Radiated Emission Measurement



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: FM Transmitter

M/N: F28

Mode: Low Channel TX

Note:

Polarization: *Horizontal*

Power:

Temperature: 26

Humidity: 60 %

Distance: 3m

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	88.2000	45.92	16.03	61.95	68.00	-6.05	peak			
2		175.5000	22.52	11.61	34.13	43.50	-9.37	peak			
3		353.3333	11.66	19.07	30.73	46.00	-15.27	peak			
1	*	88.2000	24.25	16.03	40.28	48.00	-7.72	AVG			

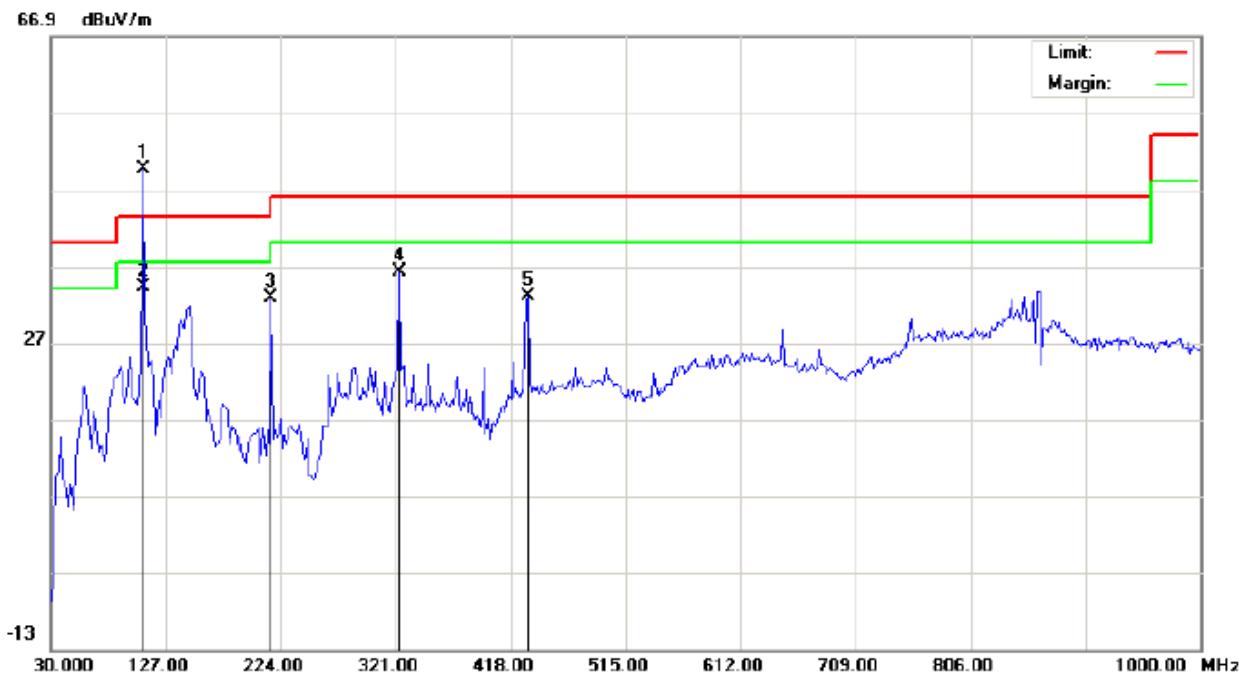
Radiated Emission Measurement



Site: site #1	Polarization: <i>Horizontal</i>	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT: FM Transmitter	Distance: 3m	
M/N: F28		
Mode: Middle Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	97.9000	43.61	13.24	56.85	68.00	-11.15	peak			
2		97.9000	21.12	13.24	34.36	48.00	-13.64	AVG	100	360	
3		196.5167	25.43	7.44	32.87	43.50	-10.63	peak			
4		393.1332	17.34	17.17	34.51	46.00	-11.49	peak			

Radiated Emission Measurement



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation

Power

Humidity: 60 %

FUT: FM Transmitter

Distance: 3m

M/N: F28

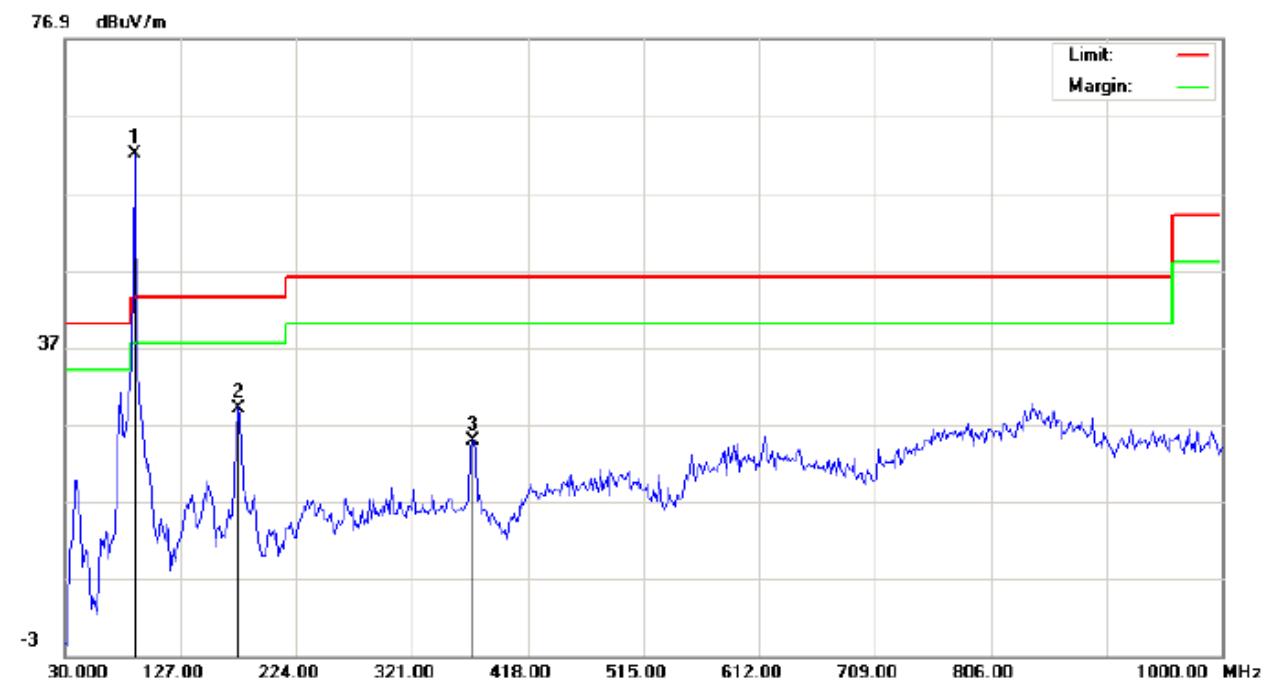
Mode: High Channel TX

Note:-

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	107.6000	36.68	12.94	49.62	68.00	-18.38	peak			
2		107.6000	18.33	12.94	31.27	48.0	-16.73	AVG	100	360	
3		215.9167	21.81	10.93	32.74	43.50	-10.76	peak			
4		324.2333	17.74	18.45	36.19	46.00	-9.81	peak			
5		432.5500	11.86	21.09	32.95	46.00	-13.05	peak			

Vertical:

Radiated Emission Measurement



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT: FM Transmitter

Distance: 3m

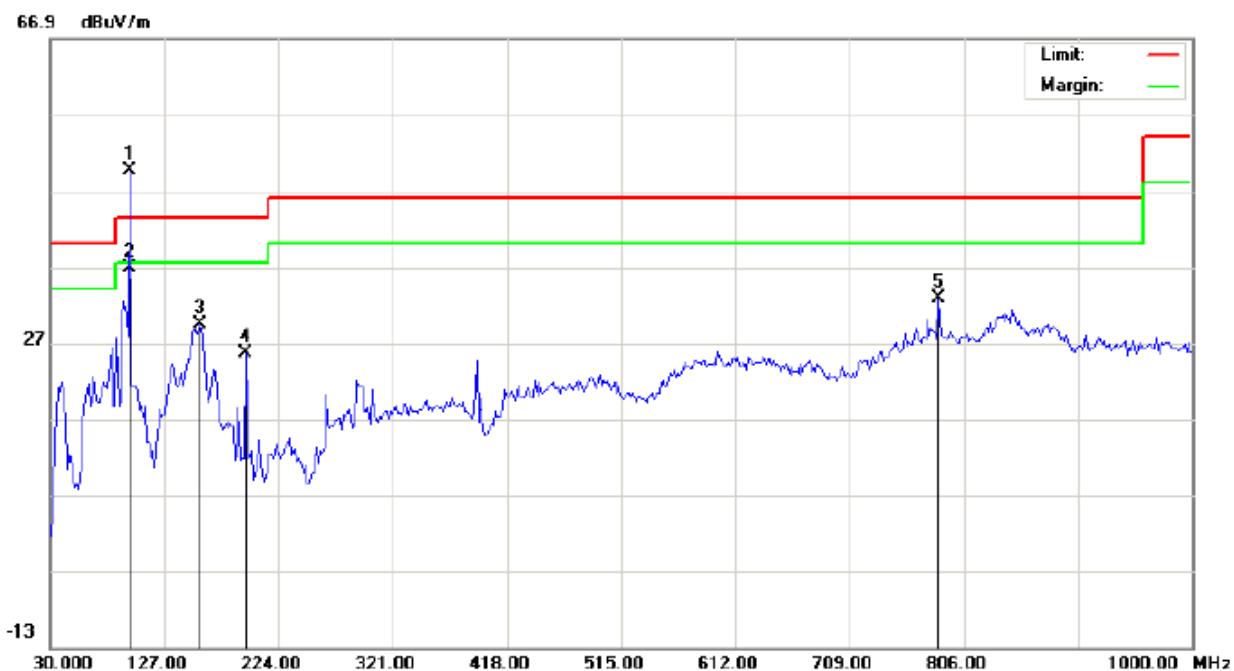
M/N: F28

Mode:Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	88.2000	45.95	16.03	61.98	68.00	-6.02	peak			
2		175.5000	17.49	11.61	29.10	43.50	-14.40	peak			
3		372.7332	5.68	19.19	24.87	46.00	-21.13	peak			
1	*	88.2000	26.14	16.03	42.17	68.00	-5.83	AVG			

Radiated Emission Measurement



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: FM Transmitter Distance: 3m
M/N: F28
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	97.9000	39.30	13.24	52.54	68.00	-15.46	peak			
2		97.9000	19.58	13.24	32.82	48.00	-15.18	AVG	100	360	
3		157.7567	15.52	13.85	29.37	43.50	-14.13	peak			
4		197.5167	18.14	7.44	25.58	43.50	-17.92	peak			
5		786.2531	4.74	28.11	32.85	46.00	-13.15	peak			

Radiated Emission Measurement



Site: site #1 Polarization: **Vertical** Temperature: 26
 Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
 EUT: FM Transmitter Distance: 3m
 M/N: F28
 Mode: High Channel TX
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	107.6000	44.14	12.94	57.08	68.00	-10.92	peak			
2		107.6000	24.87	12.94	37.81	48.00	-10.19	AVG	100	360	
3		215.9167	18.43	10.93	29.36	43.50	-14.14	peak			
4		324.2333	12.52	18.45	30.97	46.00	-15.03	peak			
5		430.9333	3.59	21.01	24.60	46.00	-21.40	peak			

TEST RESULT OF RADIATED EMISSION TEST (ABOVE 1000MHZ)

Freq. (MHz)	Level (dB uV)	Over Limit (dB)	Limit Line (dB uV)	Remark
--	--	--	--	Seen to Note

****Note:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be report.

6. §15.239(a) EMISSION BANDWIDTH TESTING

6.1. STANDARD APPLICABLE

According to FCC 15.239(a), 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.

6.2. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/18/2012	07/17/2013
RECEIVER ANTENNA	ETS	2175	57337	07/18/2012	07/17/2013
COAXIAL CABLE	ETS	SUCOFLEX 104	25498514	07/18/2012	07/17/2013

6.3. TEST PROCEDURE

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

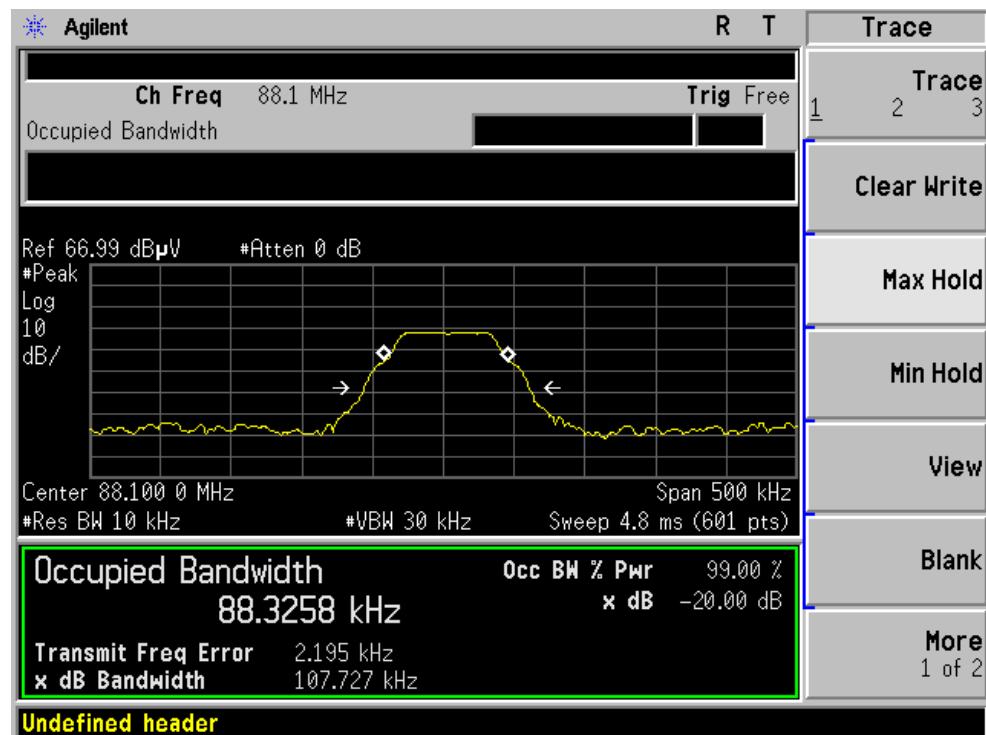
6.4. SUMMARY OF TEST RESULTS/PLOTS

Operation Mode: FM Transmitter Test Date: Aug.27,2012
Temperature: 25°C Tested by: Bart
Humidity: 55 % RH

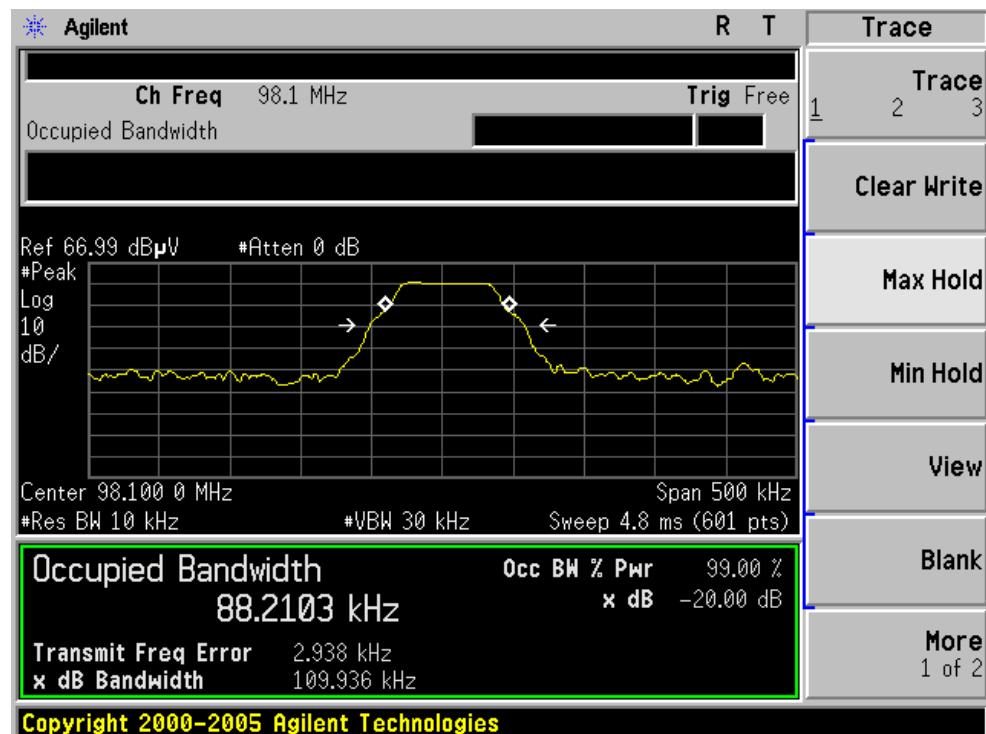
Frequency (MHz)	Emission Bandwidth (KHz)	Limit (KHz)
88.1	107.727	200
98.1	109.936	200
107.9	108.408	200

Test Result: Pass

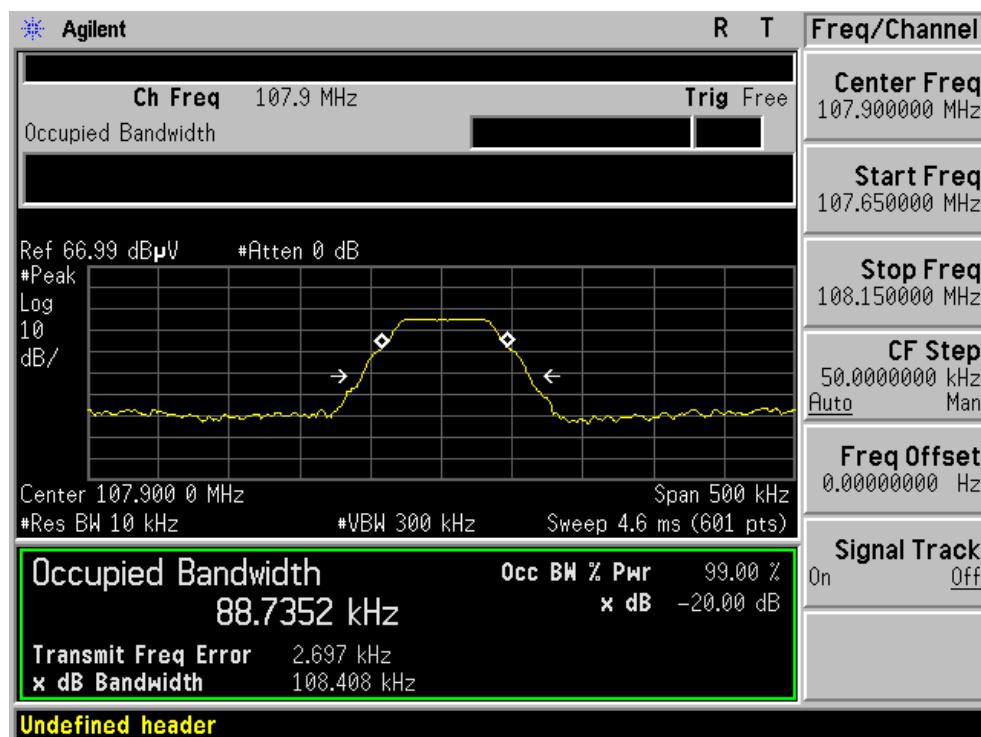
Low Channel Test Result



Middle Channel Test Result



High Channel Test Result



Note: Test Performed at maximum Volume Level Input and RF power.

7. § 15.239(b) OUT OF BAND EMISSIONS

7.1. STANDARD APPLICABLE

According to §15.239(c), The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in §15.209.

7.2. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/18/2012	07/17/2013
BICONICAL ANTENNA	A.H.	SAS-521-4	128	07/18/2012	07/17/2013
POSITIONING CONTROLLER	MF	MF-7802	MF780208147	07/18/2012	07/17/2013
AMPLIFIER	EM	EM30180	0607030	07/18/2012	07/17/2013

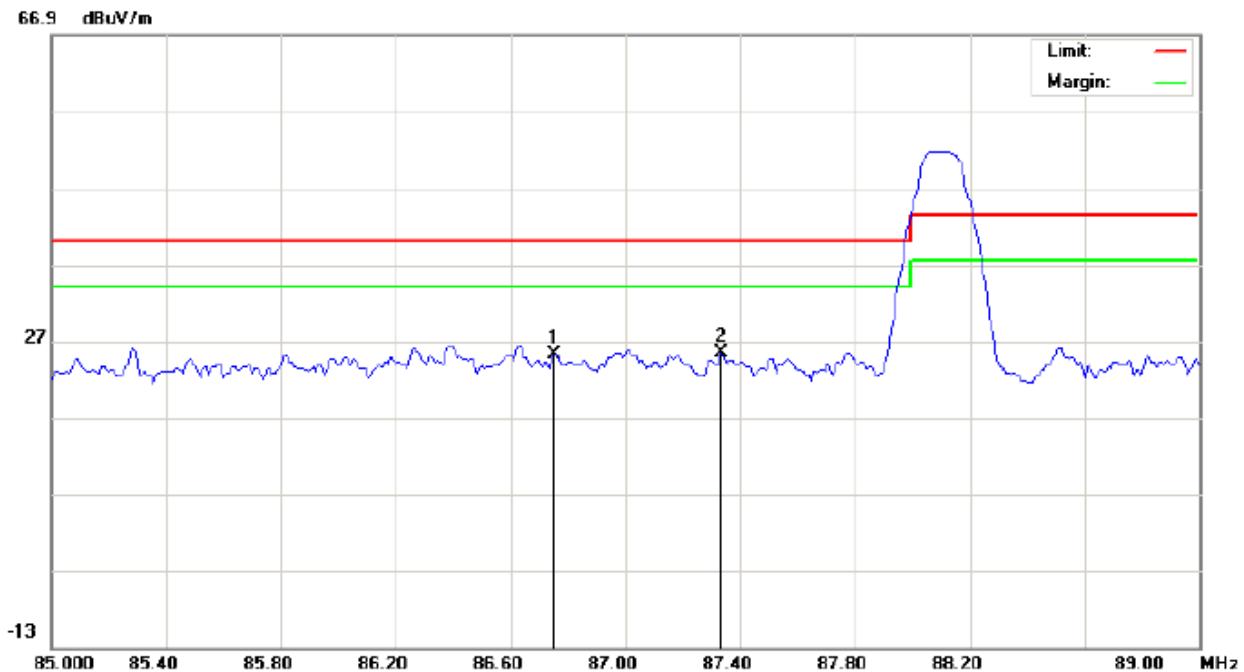
7.3. TEST PROCEDURE

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 88MHz to 108MHz, than mark the higher-level emission for comparing with the FCC rules.the worst data record in the Test report.

7.4. SUMMARY OF TEST RESULTS/PLOTS

Lower Channel:

Radiated Emission Measurement



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation

Power:

Humidity: 60 %

EUT: FM Transmitter

Distance: 3m

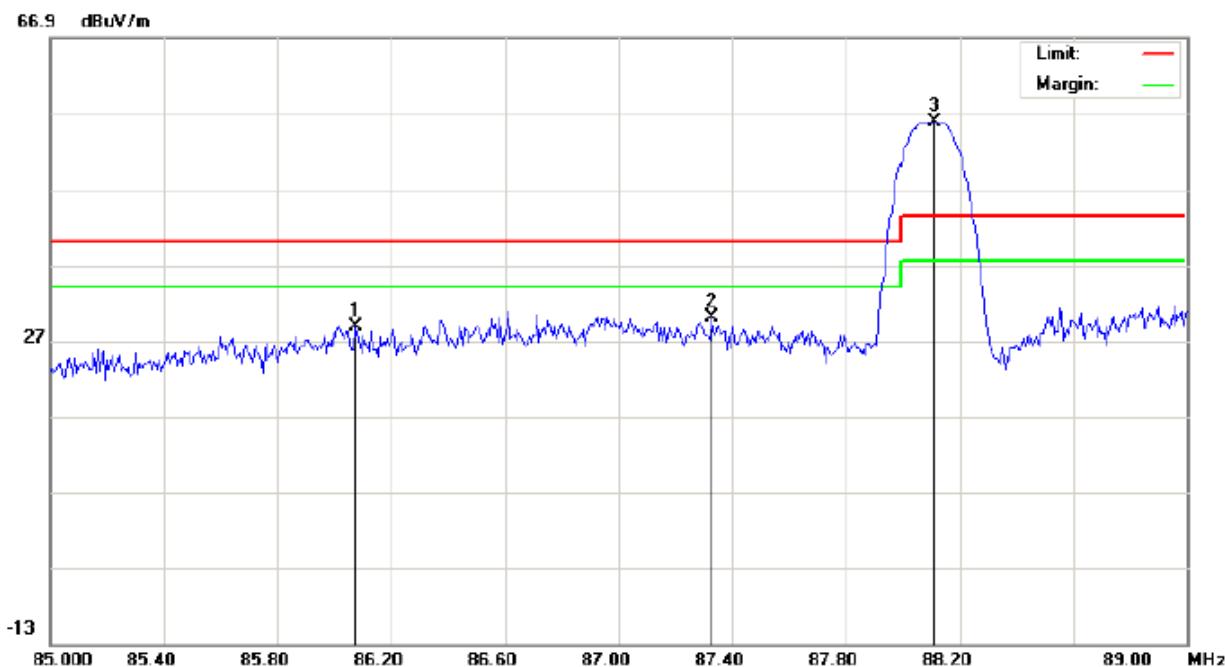
M/N: F28

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		86.7533	10.20	15.07	25.27	40.00	-14.73	peak			
2	*	87.3333	9.90	15.45	25.35	40.00	-14.65	peak			

Radiated Emission Measurement



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: FM Transmitter Distance: 3m
M/N: F28
Mode:Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		86.0732	14.26	14.61	28.87	40.00	-11.13	peak			
2		87.3267	14.47	15.45	29.92	40.00	-10.08	peak			
3	*	88.1132	39.77	15.97	55.74	43.50	12.24	peak			

High Channel:

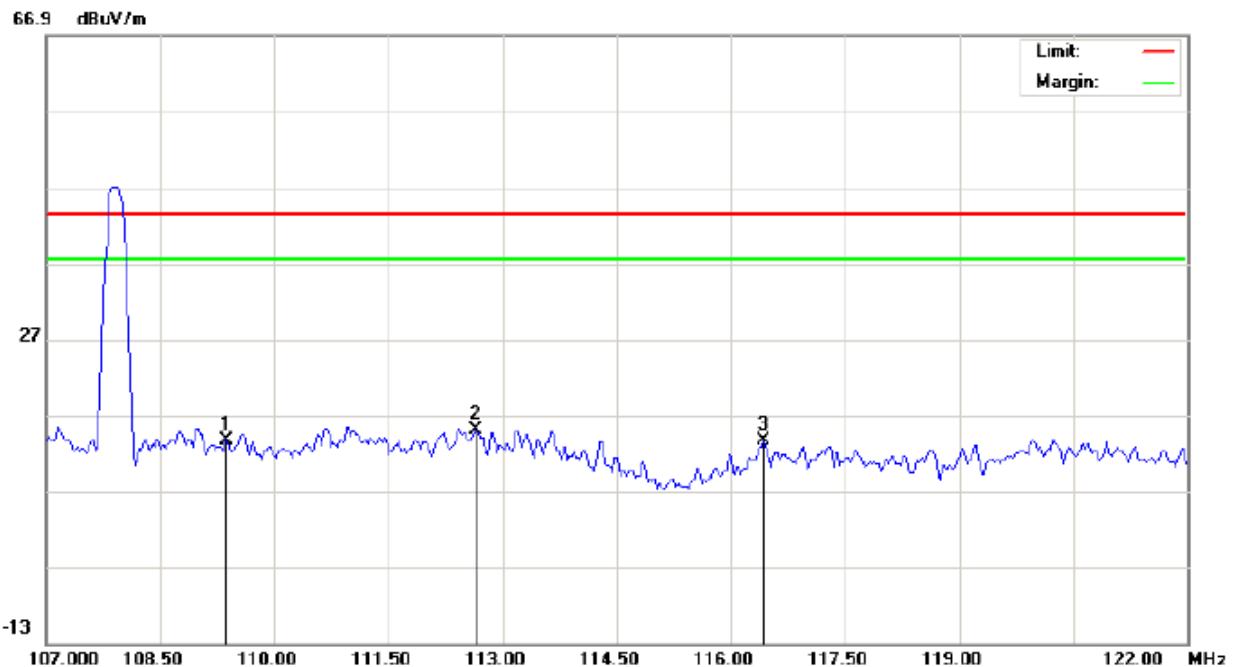
Radiated Emission Measurement



Site: site #1	Polarization: Horizontal	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT: FM Transmitter	Distance: 3m	
M/N: F28		
Mode: High Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		109.1000	7.14	13.12	20.26	43.50	-23.24	peak			
2		111.8250	11.52	12.78	24.30	43.50	-19.20	peak			
3	*	114.2750	12.54	12.18	24.72	43.50	-18.78	peak			

Radiated Emission Measurement



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %
EUT: FM Transmitter Distance: 3m
M/N: F28
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		109.3750	0.55	13.15	13.70	43.50	-29.80	peak			
2	*	112.6500	2.43	12.58	15.01	43.50	-28.49	peak			
3		116.4250	1.88	11.65	13.53	43.50	-29.97	peak			

8. § 15.239(a) FREQUENCY RANGE

8.1. STANDARD APPLICABLE

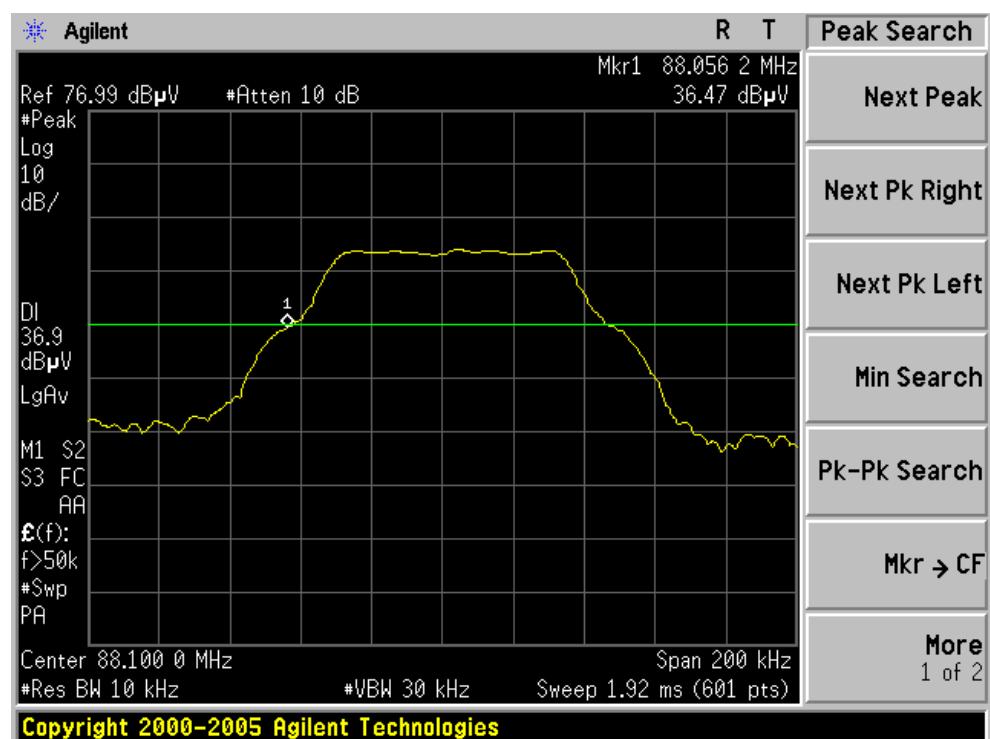
(a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

8.2. TEST EQUIPMENT LIST AND DETAILS

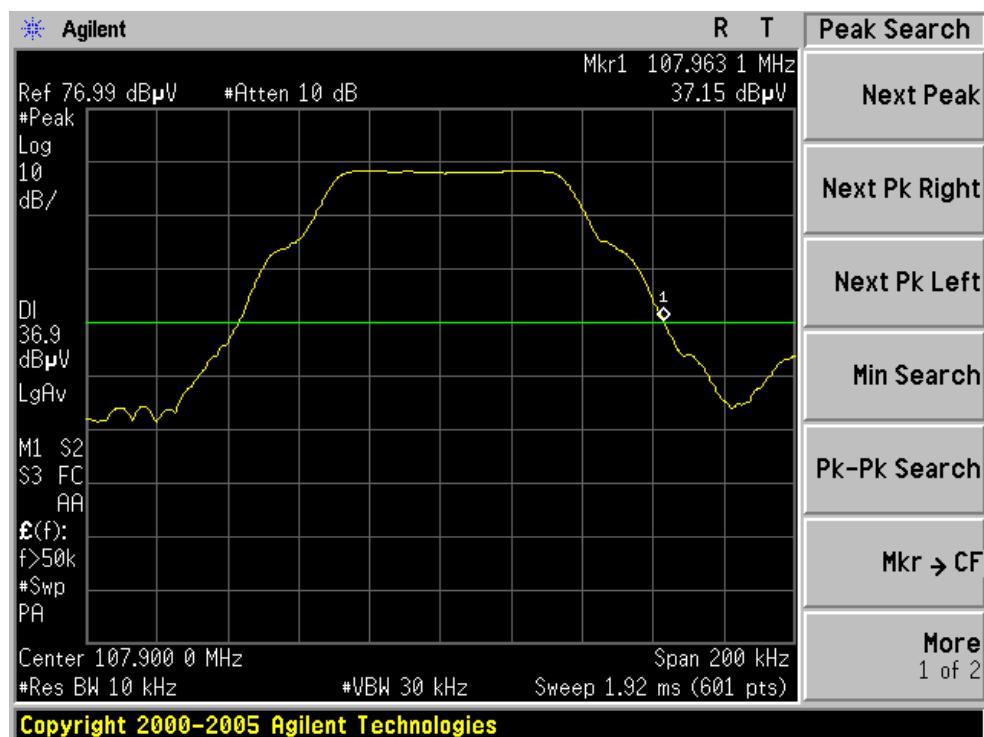
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/18/2012	07/17/2013

8.3. SUMMARY OF TEST RESULTS/PLOTS

Lower Channel:



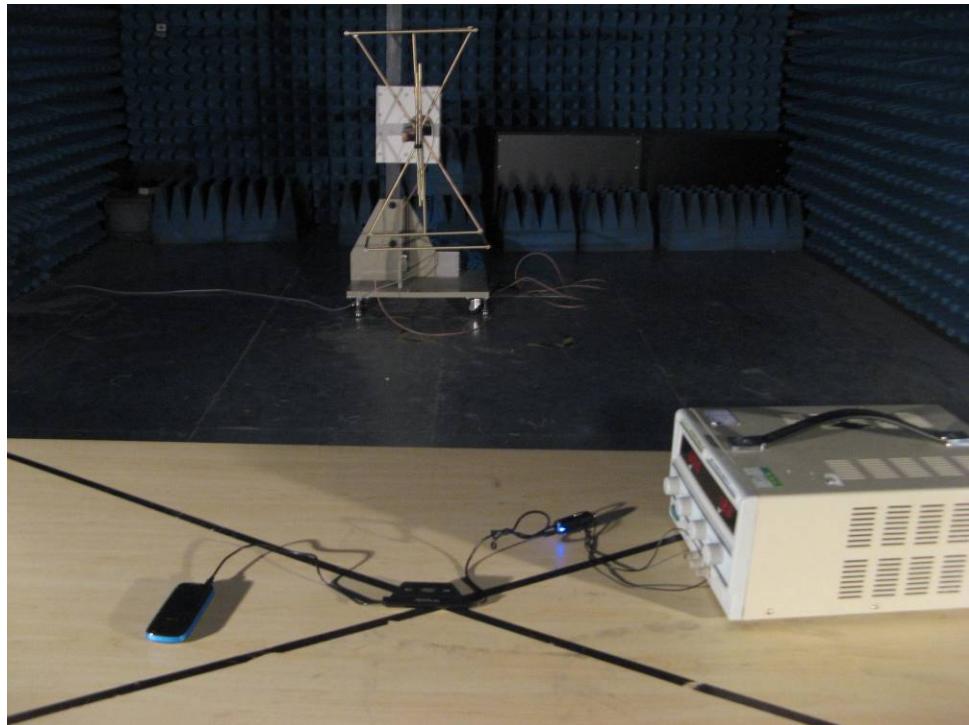
High Channel:



Note: Test Performed at maximum Volume Level Input and RF power.

APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

Radiated Emission Test Setup (30MHz-1000MHz)



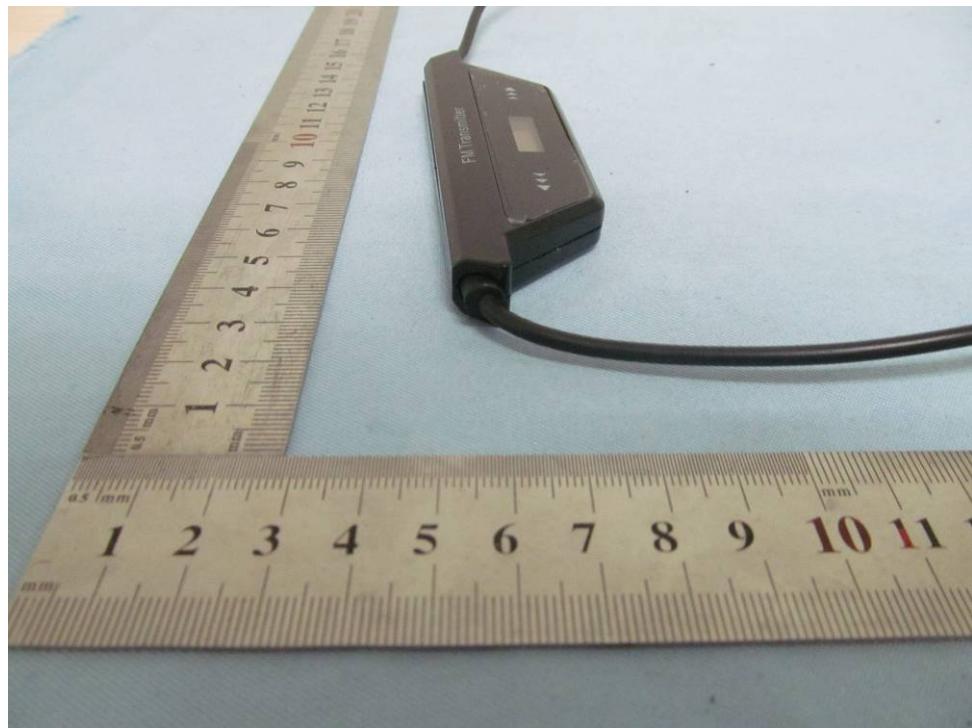
APPENDIX 2
PHOTOGRAPHS OF EUT
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



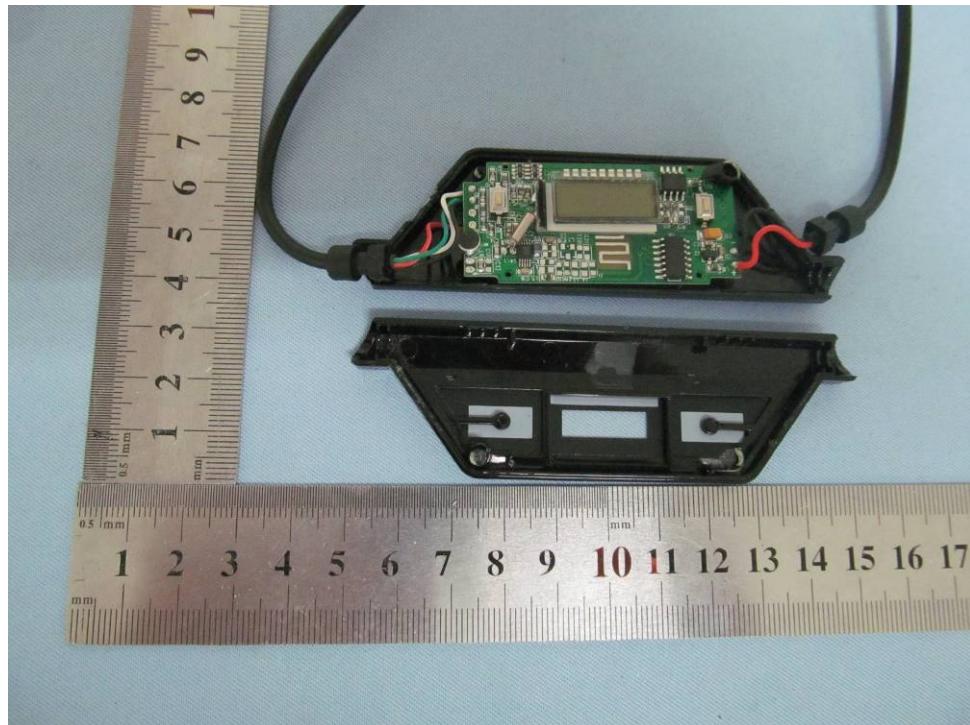
FRONT VIEW OF EUT



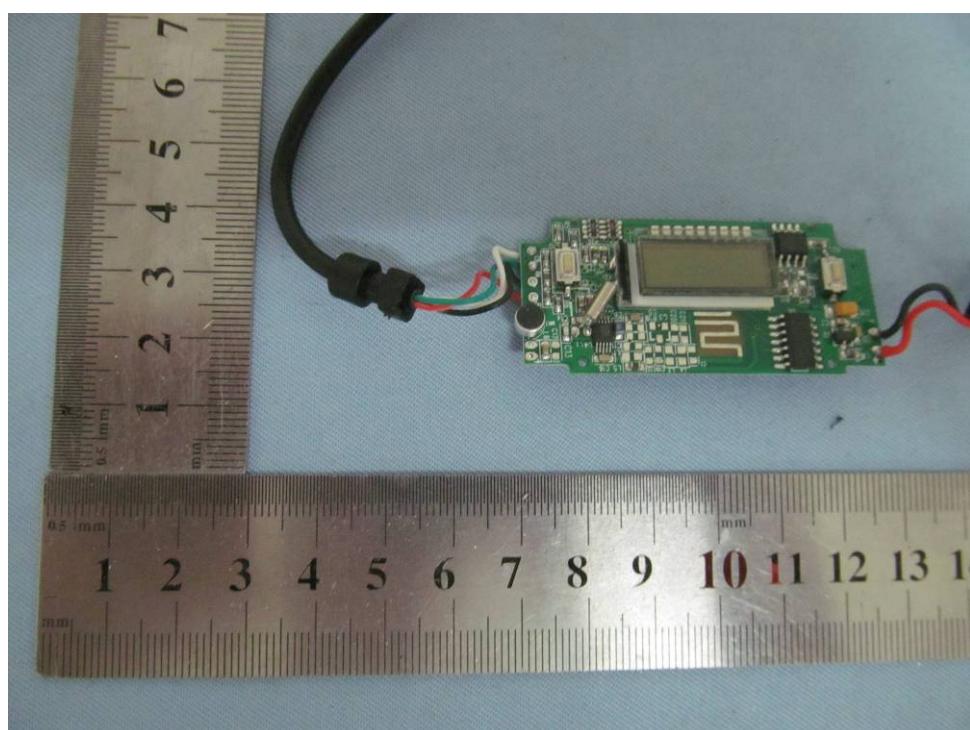
BACK VIEW OF EUT



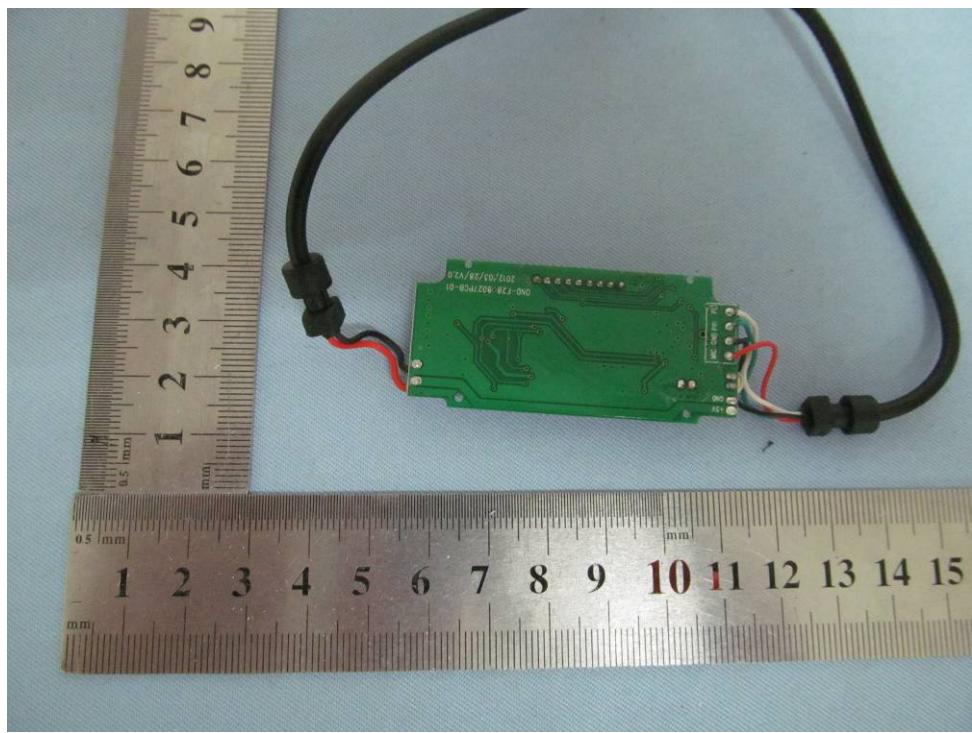
OPEN VIEW OF EUT-1



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----- END OF REPORT -----