

FCC CERTIFICATION
On Behalf of
Mizco International Inc.

FM Transmitter
Model No.: MP-Q8XL

FCC ID: RZOMP-Q8XL

Prepared for : Mizco International Inc.
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Test Report Certification

Applicant : Mizco International Inc.
 Manufacturer : DAZA Electronics Company
 EUT Description : FM Transmitter
 (A) MODEL NO.: MP-Q8XL
 (B) SERIAL NO.: N/A
 (C) POWER SUPPLY: DC 12V (Power by Battery)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.239 ANSI 63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.239 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : March 13-18, 2013

Prepared by : Apple Lv
 (Engineer)

Approved & Authorized Signer : Heinrich
 (Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	FM Transmitter
Model Number	:	MP-Q8XL
Power Supply	:	DC 12V (Power by Battery)
Operate Frequency	:	88.1-88.7MHz (step 0.2MHz)
Applicant	:	Mizco International Inc.
Address	:	80 Essex Avenue East Avenel New Jersey 07001 United States
Manufacturer	:	DAZA Electronics Company
Address	:	Bldg. G, Xinmusheng Low Carbon Industrial Park, No. 6 Xinmu Road, Pinghu, Longgang District, Shenzhen ,China
Date of sample received	:	March 13, 2013
Date of Test	:	March 13-18, 2013

1.2. Accessory and Auxiliary Equipment

iPod	:	Manufacturer: Apple
		Model No.: A1199
		S/N: 7M6369W3VQ5

1.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

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

1.4.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 6, 2013	Feb. 5, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 6, 2013	Feb. 5, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 6, 2013	Feb. 5, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 6, 2013	Feb. 5, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014
Battery	CSB	F2	HR1234W	--	--

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.239(c) Section 15.209	Harmonics and Spurious Radiated Emission and Band Edge	Compliant
Section 15.239(b)	Fundamental Radiated Emission	Compliant
Section 15.239(a)	Occupied Bandwidth	Compliant
Section 15.239	Tuning Range	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: “N/A” means “Not applicable”.

4. HARMONICS AND SPURIOUS RADIATED EMISSION AND BAND EDGE FOR FCC PART 15 SECTION 15.239(C)

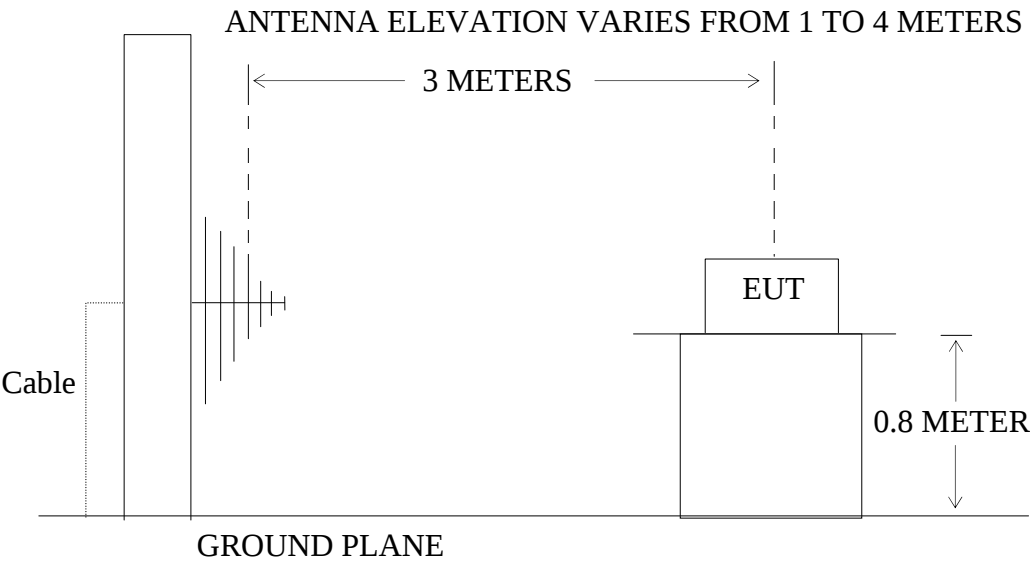
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: FM Transmitter)

4.2.The Emission Limit for section 15.239(c)

4.2.1. 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 Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit,		The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

4.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1.FM Transmitter (EUT)

Model Number : MP-Q8XL
 Serial Number : N/A
 Manufacturer : DAZA Electronics Company

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] and measure it. The transmit frequency are 88.1-88.7MHz. We select 88.1MHz, 88.5MHz, 88.7MHz TX frequency to transmit.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:	March 15, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
	TX 88.1MHz (Connect to iPod's		
Test Mode:	Dock)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.2685	61.07	-22.21	38.86	43.50	-4.64
Vertical	176.2684	57.70	-21.05	36.65	43.50	-6.85

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	87.7600	29.00	-22.63	6.37	40.00	-33.63
Horizontal	88.0000	53.78	-22.63	31.15	40.00	-8.85
Horizontal	88.2000	54.00	-22.64	31.36	43.50	-12.14
Horizontal	89.7800	29.07	-22.68	6.39	43.50	-37.11
Vertical	87.2960	29.87	-22.48	7.39	40.00	-32.61
Vertical	88.0000	59.94	-22.38	37.56	40.00	-2.44
Vertical	88.2000	60.87	-22.35	38.52	43.50	-4.98
Vertical	89.7960	30.22	-22.12	8.10	43.50	-35.40

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	March 15, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
Test Mode:	TX 88.5MHz (Connect to iPod's Dock)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.8876	63.93	-22.14	41.79	43.50	-1.71
Vertical	176.8876	58.50	-21.04	37.46	43.50	-6.04

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	87.2600	28.83	-22.48	6.35	40.00	-33.65
Horizontal	88.4000	58.97	-22.32	36.65	43.50	-6.85
Horizontal	88.6000	59.73	-22.29	37.44	43.50	-6.06
Horizontal	89.6080	27.54	-22.14	5.40	43.50	-38.10
Vertical	86.8760	29.17	-22.60	6.57	40.00	-33.43
Vertical	88.4000	51.28	-22.64	28.64	43.50	-14.86
Vertical	88.6000	51.82	-22.65	29.17	43.50	-14.33
Vertical	89.3040	27.48	-22.67	4.81	43.50	-38.69

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	March 15, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
Test Mode:	TX 88.7MHz (Connect to iPod's Dock)	Test Engineer:	Bob

Harmonics and Spurious radiation emission

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	177.5091	63.20	-22.08	41.12	43.50	-2.38
Vertical	177.5092	59.40	-21.03	38.37	43.50	-5.13

Band edge

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	86.6157	28.93	-22.58	6.35	40.00	-33.65
Horizontal	88.6000	59.63	-22.29	37.34	43.50	-6.16
Horizontal	88.8000	60.01	-22.26	37.75	43.50	-5.75
Horizontal	89.5318	27.56	-22.15	5.41	43.50	-38.09
Vertical	86.8960	30.10	-22.60	7.50	40.00	-32.50
Vertical	88.6000	52.42	-22.65	29.77	43.50	-13.73
Vertical	88.8000	50.86	-22.65	28.21	43.50	-15.29
Vertical	89.8080	28.95	-22.68	6.27	43.50	-37.23

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

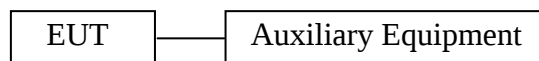
$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

5. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15

SECTION 15.239(B)

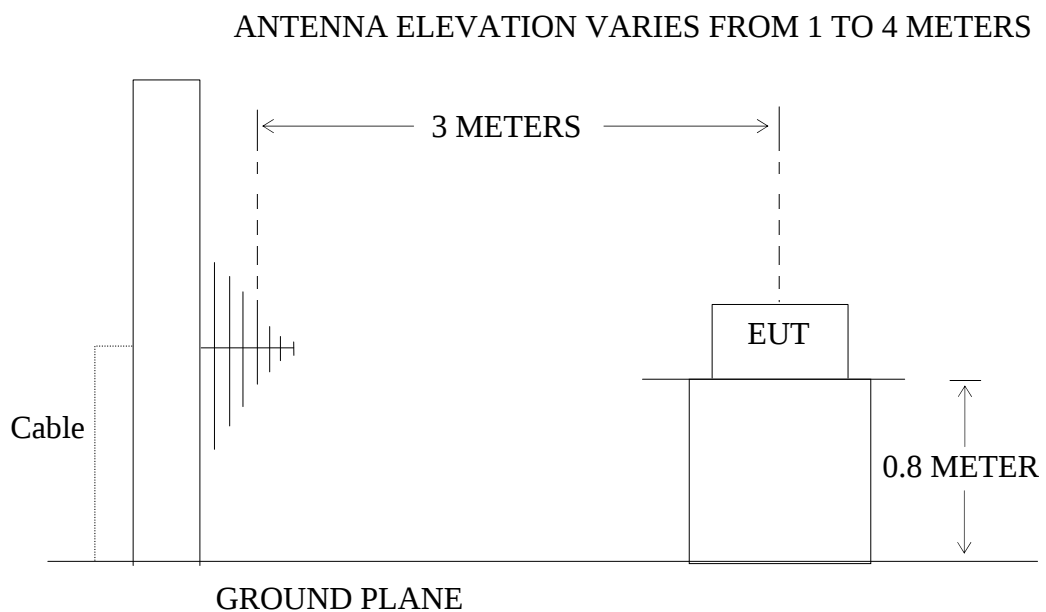
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: FM Transmitter)

5.2. The Emission Limit For Section 15.239(b)

5.2.1. The field strength of any emission within the permitted 200kHz band shall not exceed 250microvolts/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.

5.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.FM Transmitter (EUT)

Model Number : MP-Q8XL
Serial Number : N/A
Manufacturer : DAZA Electronics Company

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] and measure it. The transmit frequency are 88.1-88.7MHz. We select 88.1MHz, 88.5MHz, 88.7MHz TX frequency to transmit.

5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 300kHz.

5.6.The Emission Measurement Result

PASS.

Date of Test:	March 15, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz (Connect to iPod's dock)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.1000	65.22	68.17	-22.64	42.58	45.53	48.00	68.00	-5.42	-2.47	Horizontal
88.1000	62.53	65.18	-22.37	40.16	42.81	48.00	68.00	-7.84	-25.19	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	March 11-12, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
Test Mode:	TX 88.5MHz (Connect to iPod's dock)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.5000	66.85	69.48	-22.64	44.21	46.84	48.00	68.00	-3.79	-21.16	Horizontal
88.5000	61.83	64.72	-22.30	39.53	42.42	48.00	68.00	-8.47	-25.58	Vertical

Note:

- Measurement was performed with modulated signal with average detector and peak detector.
- The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
- The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	March 11-12, 2013	Temperature:	25°C
EUT:	FM Transmitter	Humidity:	50%
Model No.:	MP-Q8XL	Power Supply:	DC 12V
Test Mode:	TX 88.7MHz (Connect to iPod's dock)	Test Engineer:	Bob

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.7000	66.89	69.30	-22.65	44.24	46.65	48.00	68.00	-3.76	-21.35	Horizontal
88.7000	63.28	66.66	-22.28	41.00	44.38	48.00	68.00	-7.00	-23.62	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

6. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION

15.239(A)

6.1.The Requirement For Section 15.239(a)

6.1.1. Emission from the device shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88-108MHz.

6.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.2.1.FM Transmitter (EUT)

Model Number : MP-Q8XL
Serial Number : N/A
Manufacturer : DAZA Electronics Company

6.3. Operating Condition of EUT

6.3.1. Setup the EUT and simulator as shown as Section 5.1.

6.3.2. Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] measure it. The transmit frequency are 88.1-88.7MHz. We are select 88.1MHz, 88.5MHz, 88.7MHz TX frequency to transmit.

6.4. Test Procedure

6.4.1. The EUT was placed on a turn table which is 0.8m above ground plane.

6.4.2. Set EUT as normal operation. Playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz

6.4.3. Set EMI test receiver Center Frequency = fundamental frequency, RBW= 3kHz, VBW= 10kHz, Span=300kHz.

6.4.4. Set EMI test receiver Max hold. Mark peak, -26dB.

6.5. Test Result

The EUT does meet the FCC requirement.

Frequency (MHz)	Occupied Bandwidth (kHz)
88.1	84.6
88.5	85.2
88.7	85.8

The spectral diagrams in appendix I.

7. TUNING RANGE

7.1.The Requirement For Section 15.239

88-108MHz

7.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.2.1. FM Transmitter (EUT)

Model Number : MP-Q8XL
Serial Number : N/A
Manufacturer : DAZA Electronics Company

7.3.Operating Condition of EUT

7.3.1.Setup the EUT and simulator as shown as Section 5.1.

7.3.2.Turn on the power of all equipment.

7.3.3. Let the EUT work in TX modes [Connect EUT use Auxiliary Equipment (iPod) playing typical audio signal with a 2.5 kHz tone at a level 16 dB higher than that required to produce a frequency deviation of 75 kHz] measure it. The transmit frequency are 88.1-88.7MHz. We are select 88.1M, 88.5M, 88.7MHz TX frequency to transmit.

7.4.Test Procedure

7.4.1.The EUT was placed on a turn table which is 0.8m above ground plane.

7.4.2.Set the EUT working on the working frequency.

7.4.3. Set EMI test receiver center frequency = working frequency, RBW=3kHz, VBW= 10kHz, Span=300kHz.

7.4.4.Measuring the working frequency.

7.4.5.The working frequency should be inside 88-108MHz.

7.5. Test Result

The EUT does meet the FCC requirement.

Display of the EUT LED (MHz)	Display of the EMI test receiver (MHz)
88.1	88.1592
88.5	88.4586
88.7	88.6586

The working frequency rang is from 88.1 to 88.7MHz.

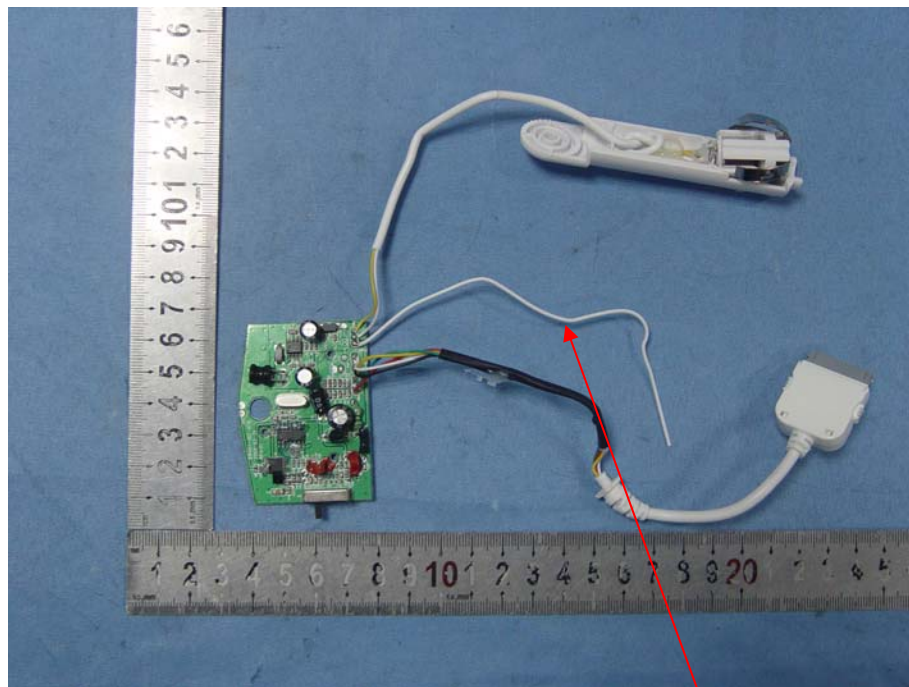
8. ANTENNA REQUIREMENT

8.1.The Requirement

According to Section 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.

8.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement.



Antenna

APPENDIX I (Test Curves)



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

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #237

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.1MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

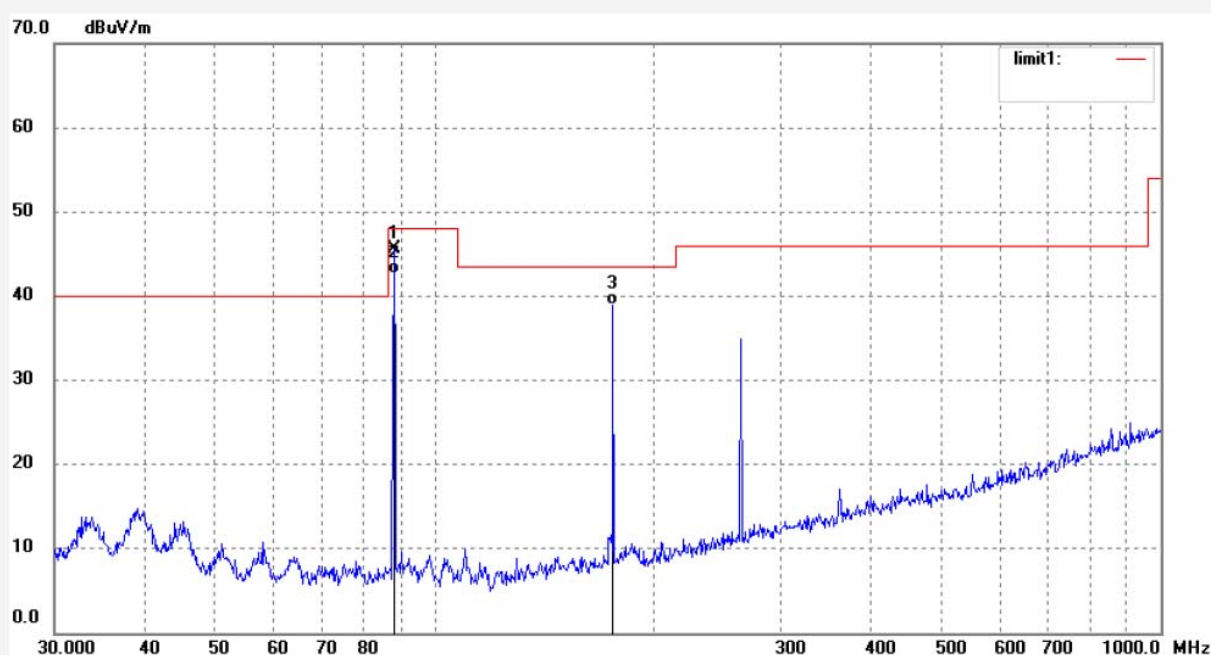
Date: 13/03/15/

Time: 11/33/29

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



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	68.17	-22.64	45.53	68.00	-22.47	peak			
2	88.1000	65.22	-22.64	42.58	48.00	-5.42	AVG			
3	176.2685	61.07	-22.21	38.86	43.50	-4.64	QP			



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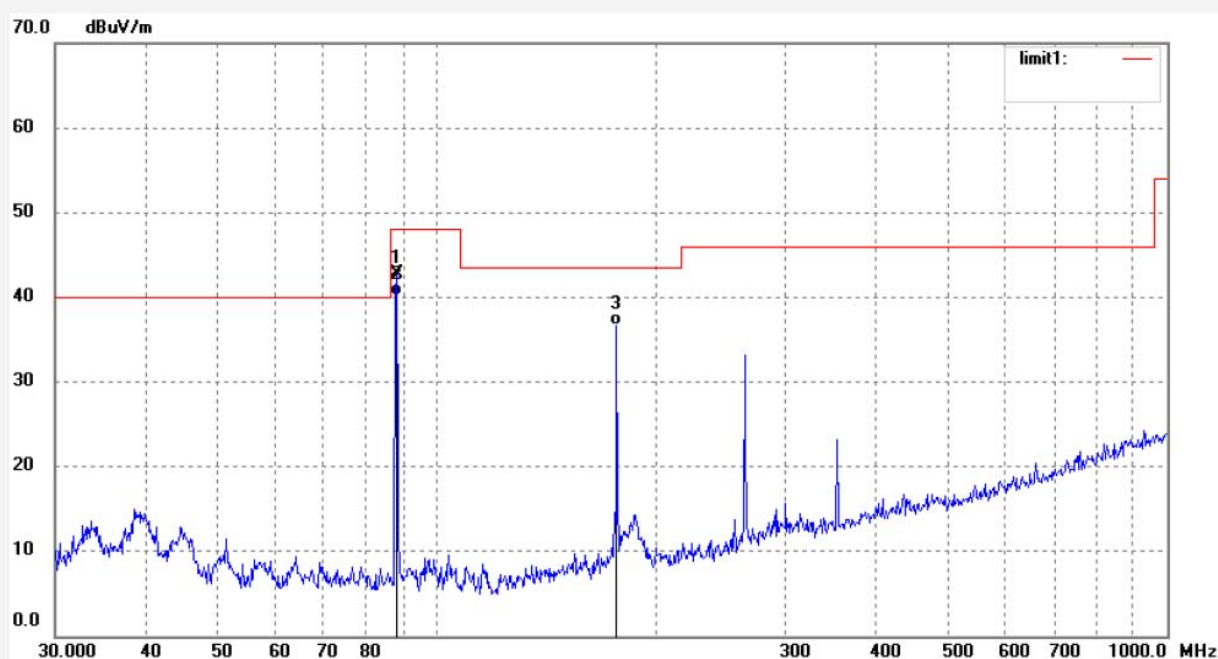
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR #238
Standard: FCC PART 15 (FMT)
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 60 %
EUT: FM transmitter
Mode: FM 88.1MHz
Model: MP-Q8XL
Manufacturer: DAZA

Polarization: Vertical
Power Source: DC 12V
Date: 13/03/15/
Time: 11/37/20
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20130366



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	65.18	-22.37	42.81	68.00	-25.19	peak			
2	88.1000	62.53	-22.37	40.16	48.00	-7.84	AVG			
3	176.2684	57.70	-21.05	36.65	43.50	-6.85	QP			



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Fax:+86-0755-26503396

Job No.: STAR #240

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.5MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

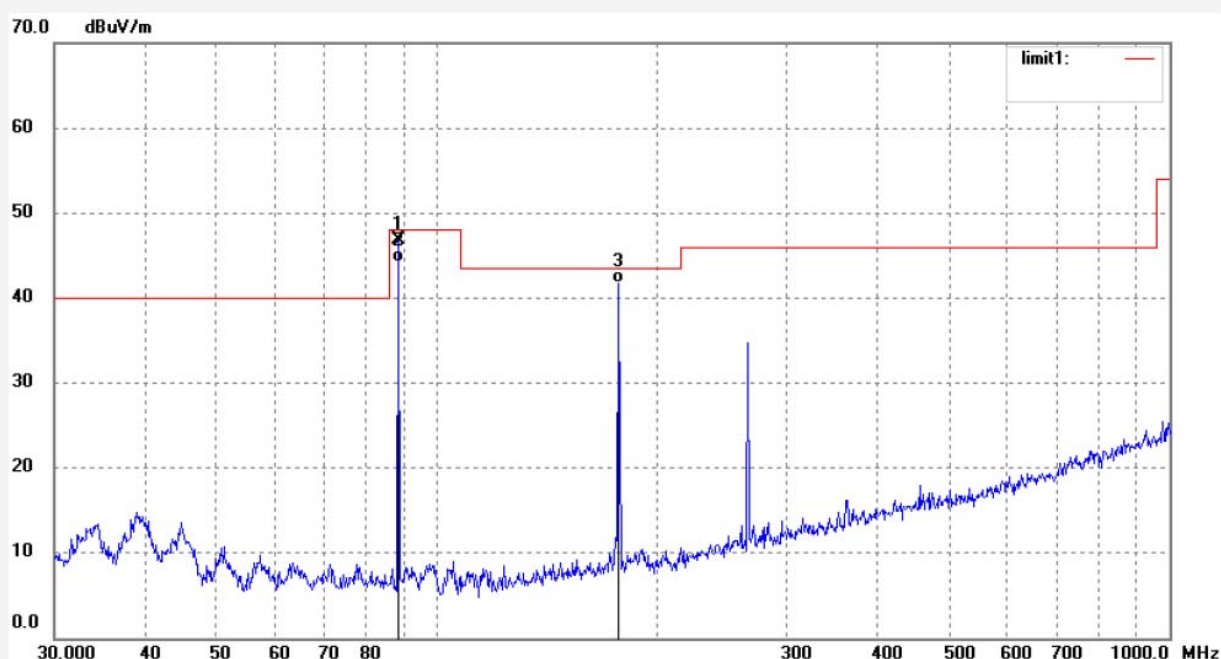
Date: 13/03/15/

Time: 11/46/55

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.5000	69.48	-22.64	46.84	68.00	-21.16	peak			
2	88.5000	66.85	-22.64	44.21	48.00	-3.79	AVG			
3	176.8876	63.93	-22.14	41.79	43.50	-1.71	QP			



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Job No.: STAR #239

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.5MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Vertical

Power Source: DC 12V

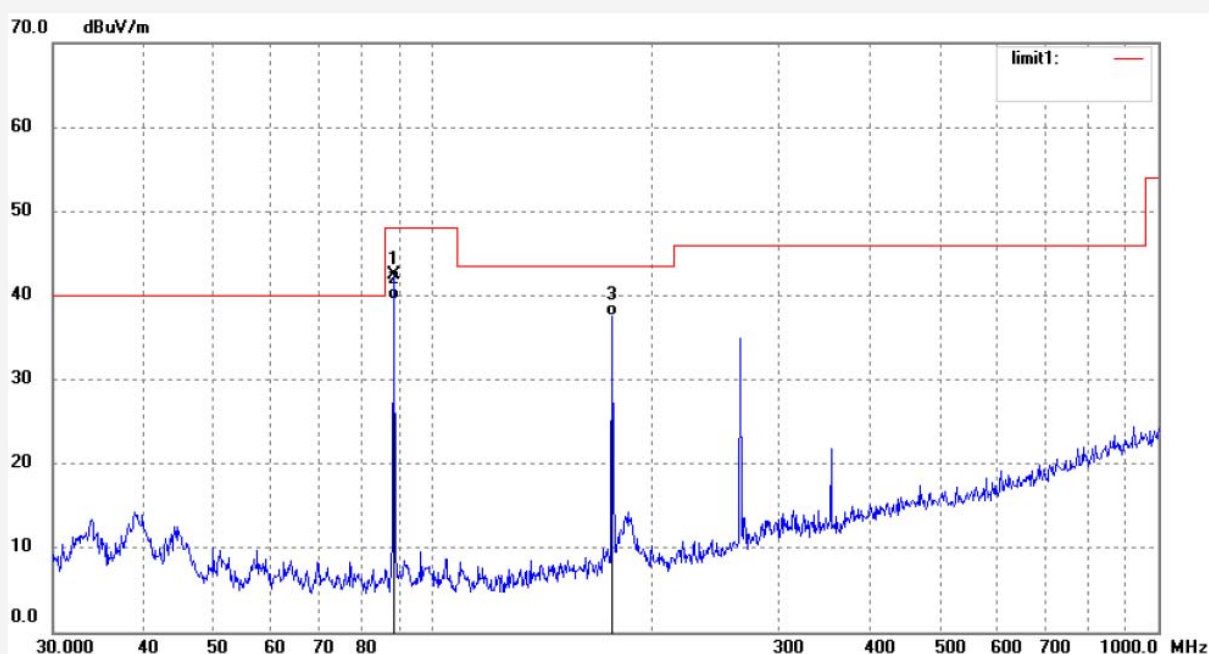
Date: 13/03/15/

Time: 11/41/53

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.5000	64.72	-22.30	42.42	68.00	-25.58	peak			
2	88.5000	61.83	-22.30	39.53	48.00	-8.47	AVG			
3	176.8876	58.50	-21.04	37.46	43.50	-6.04	QP			



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Job No.: STAR #241

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.7MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

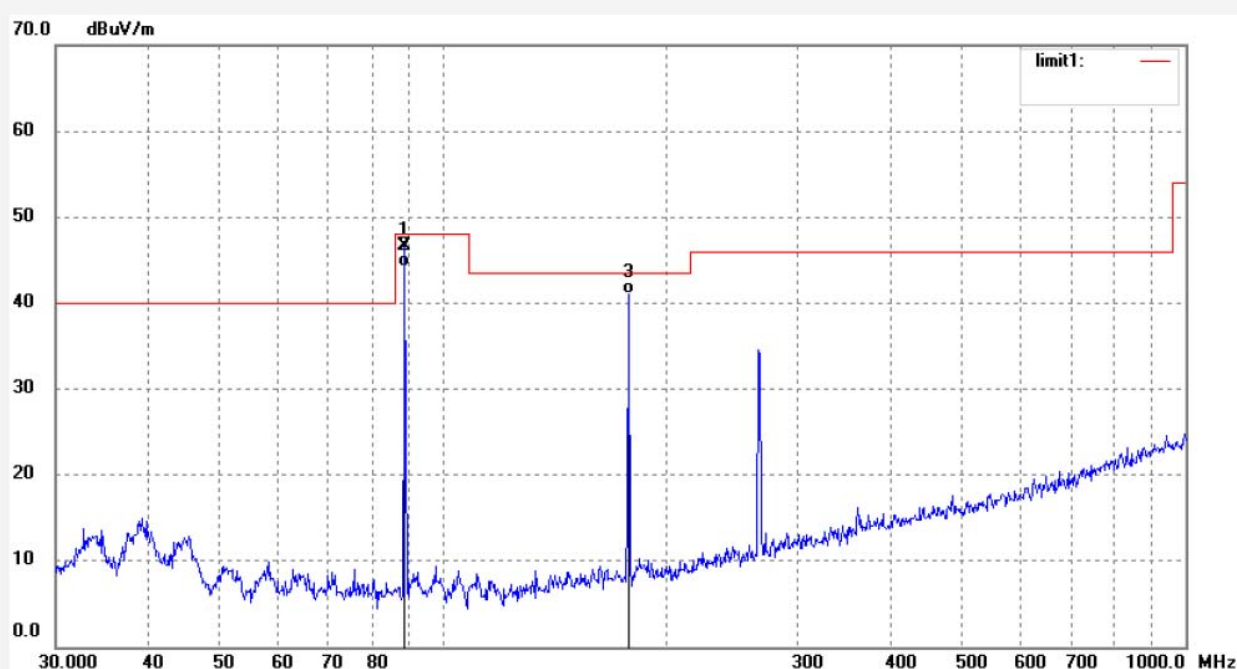
Date: 13/03/15/

Time: 11/49/15

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.7000	69.30	-22.65	46.65	68.00	-21.35	peak			
2	88.7000	66.89	-22.65	44.24	48.00	-3.76	AVG			
3	177.5091	63.20	-22.08	41.12	43.50	-2.38	QP			



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Fax:+86-0755-26503396

Job No.: STAR #242

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.7MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Vertical

Power Source: DC 12V

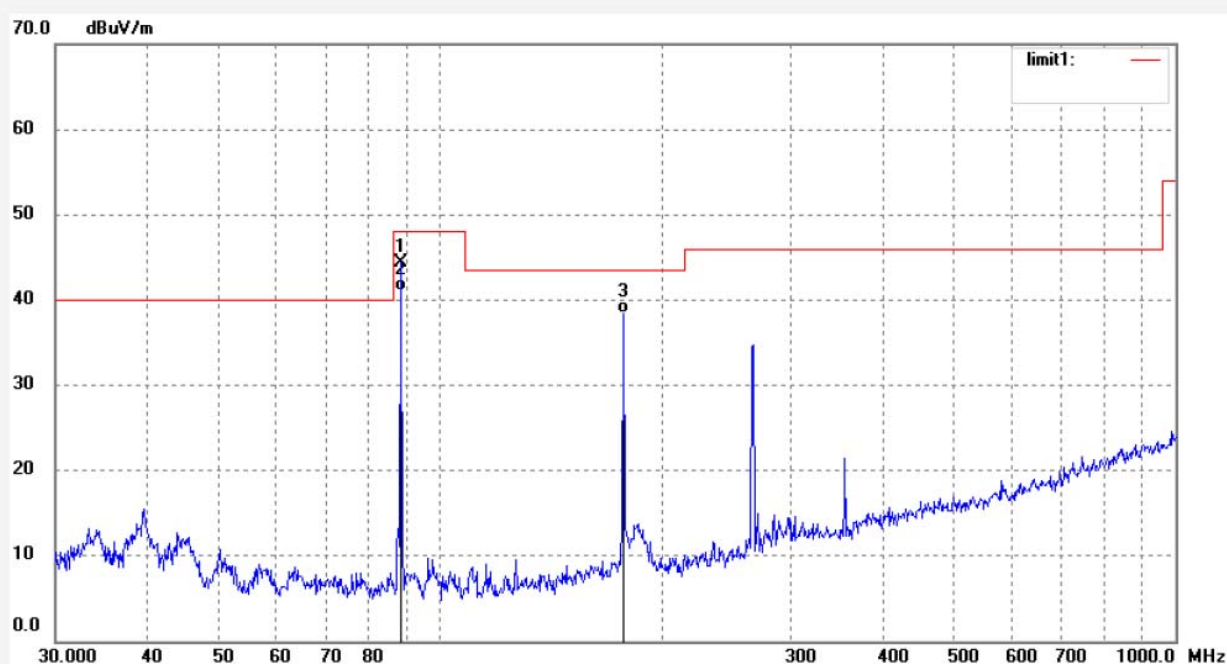
Date: 13/03/15/

Time: 11/54/48

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.7000	66.66	-22.28	44.38	68.00	-23.62	peak			
2	88.7000	63.28	-22.28	41.00	48.00	-7.00	AVG			
3	177.5092	59.40	-21.03	38.37	43.50	-5.13	QP			



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Job No.: STAR #247

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.1MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

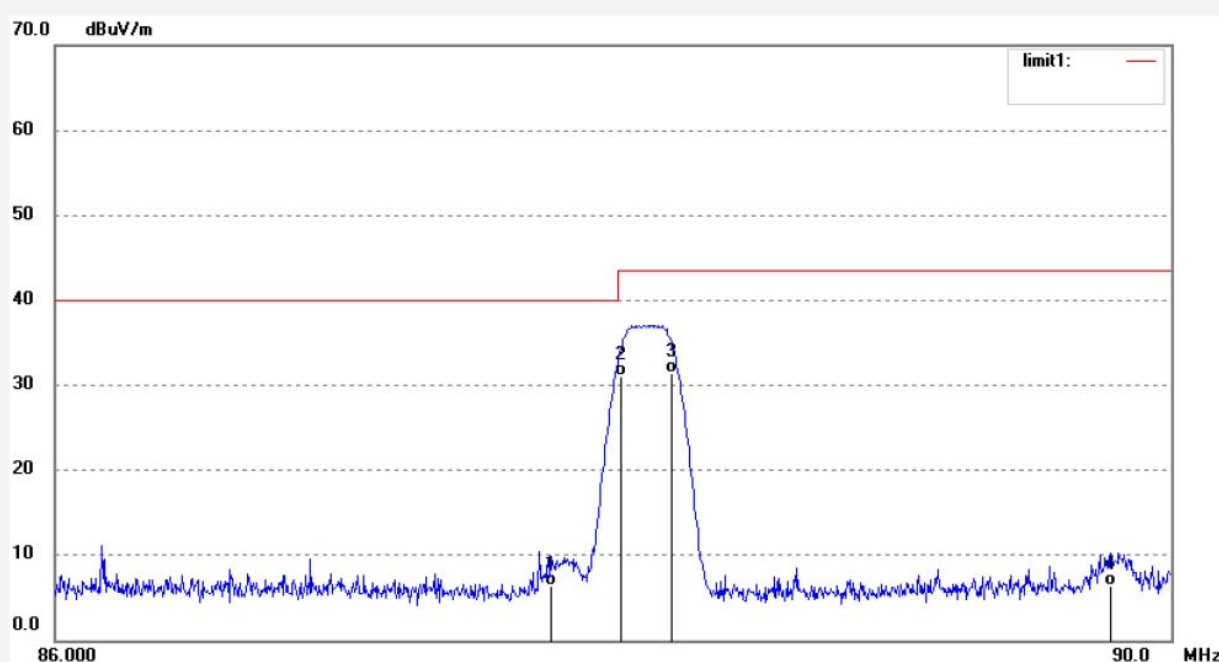
Date: 13/03/15/

Time: 12/17/03

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.7600	29.00	-22.63	6.37	40.00	-33.63	QP			
2	88.0000	53.78	-22.63	31.15	40.00	-8.85	QP			
3	88.2000	54.00	-22.64	31.36	43.50	-12.14	QP			
4	89.7800	29.07	-22.68	6.39	43.50	-37.11	QP			



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Job No.: STAR #248

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.1MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Vertical

Power Source: DC 12V

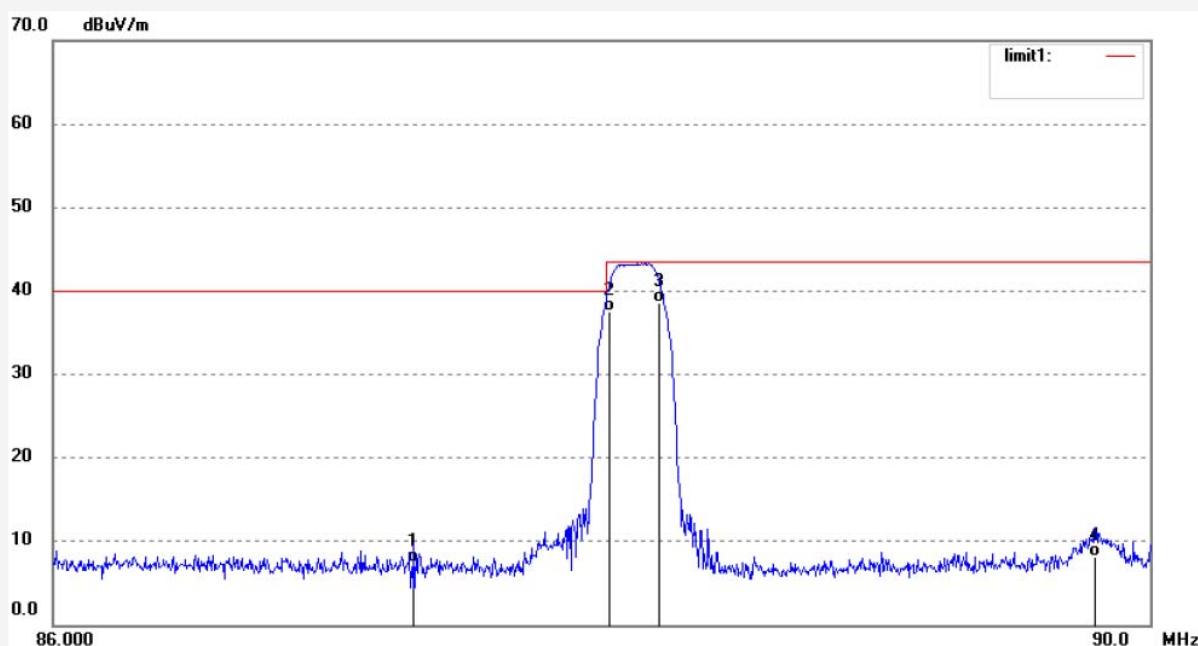
Date: 13/03/15/

Time: 12/22/04

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.2960	29.87	-22.48	7.39	40.00	-32.61	QP			
2	88.0000	59.94	-22.38	37.56	40.00	-2.44	QP			
3	88.2000	60.87	-22.35	38.52	43.50	-4.98	QP			
4	89.7960	30.22	-22.12	8.10	43.50	-35.40	QP			



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Job No.: STAR #245

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.5MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

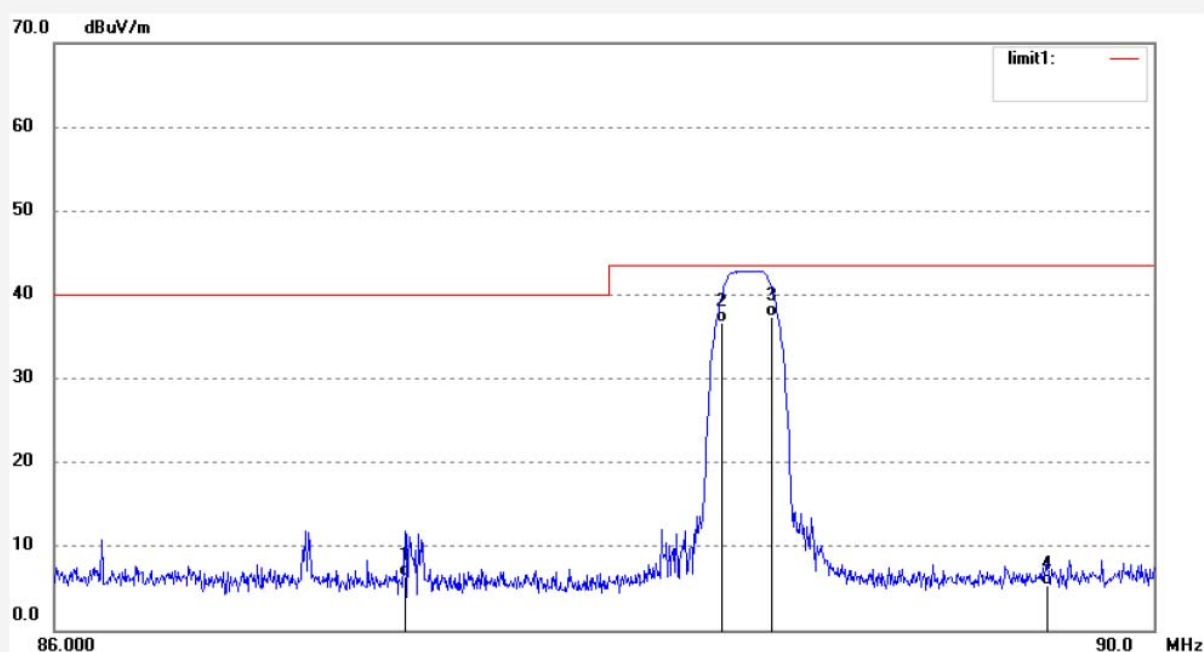
Date: 13/03/15/

Time: 12/09/18

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	87.2600	28.83	-22.48	6.35	40.00	-33.65	QP			
2	88.4000	58.97	-22.32	36.65	43.50	-6.85	QP			
3	88.6000	59.73	-22.29	37.44	43.50	-6.06	QP			
4	89.6080	27.54	-22.14	5.40	43.50	-38.10	QP			



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Site: 1# Chamber
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Job No.: STAR #246

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.5MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Vertical

Power Source: DC 12V

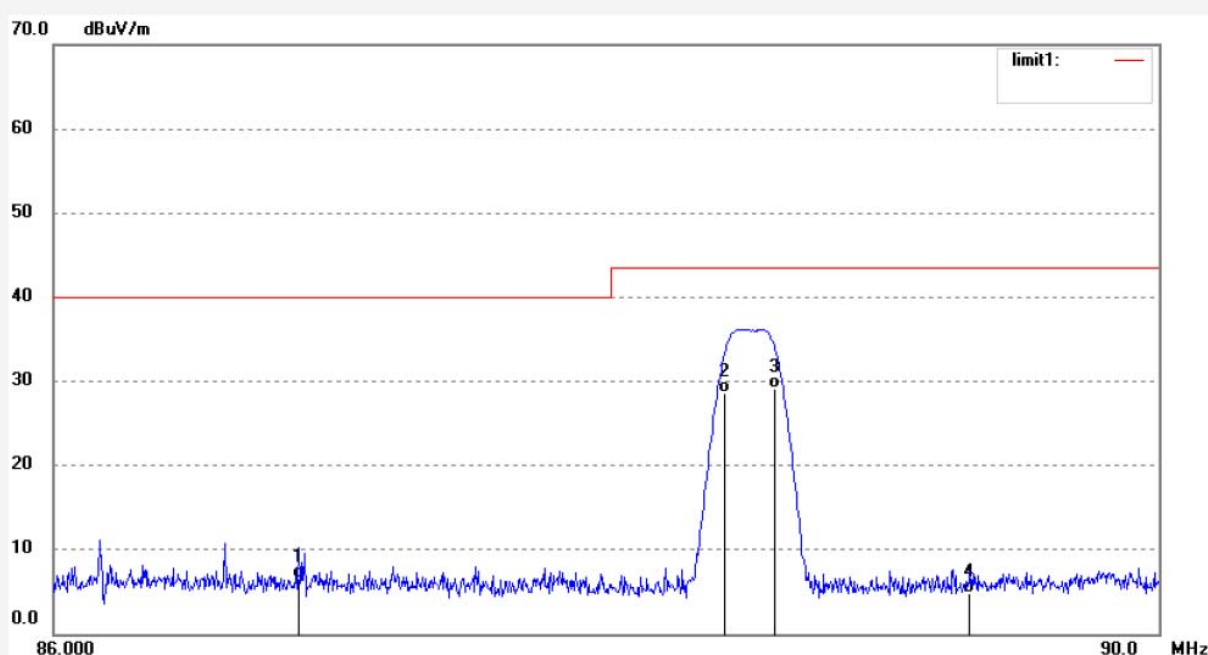
Date: 13/03/15/

Time: 12/13/29

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	86.8760	29.17	-22.60	6.57	40.00	-33.43	QP			
2	88.4000	51.28	-22.64	28.64	43.50	-14.86	QP			
3	88.6000	51.82	-22.65	29.17	43.50	-14.33	QP			
4	89.3040	27.48	-22.67	4.81	43.50	-38.69	QP			



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Job No.: STAR #244

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.7MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Horizontal

Power Source: DC 12V

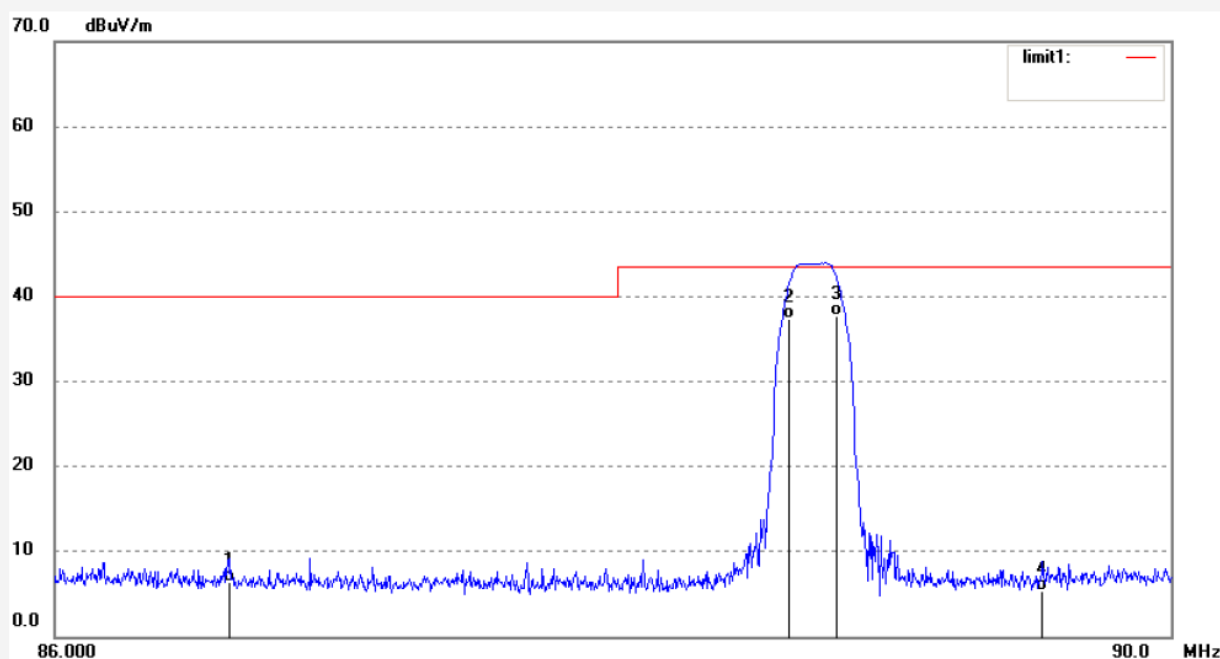
Date: 13/03/15/

Time: 12/03/32

Engineer Signature: STAR

Distance: 3m

Note: Report No.:ATE20130366



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	86.6157	28.93	-22.58	6.35	40.00	-33.65	QP			
2	88.6000	59.63	-22.29	37.34	43.50	-6.16	QP			
3	88.8000	60.01	-22.26	37.75	43.50	-5.75	QP			
4	89.5318	27.56	-22.15	5.41	43.50	-38.09	QP			



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Job No.: STAR #243

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 60 %

EUT: FM transmitter

Mode: FM 88.7MHz

Model: MP-Q8XL

Manufacturer: DAZA

Polarization: Vertical

Power Source: DC 12V

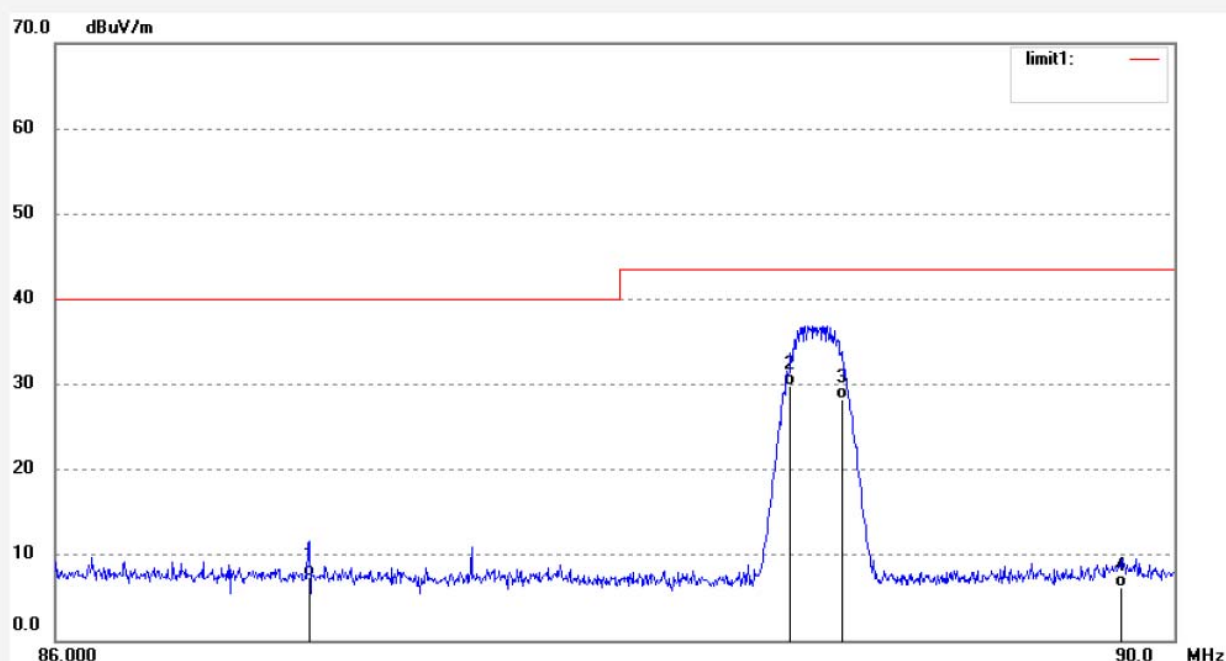
Date: 13/03/15/

Time: 11/59/51

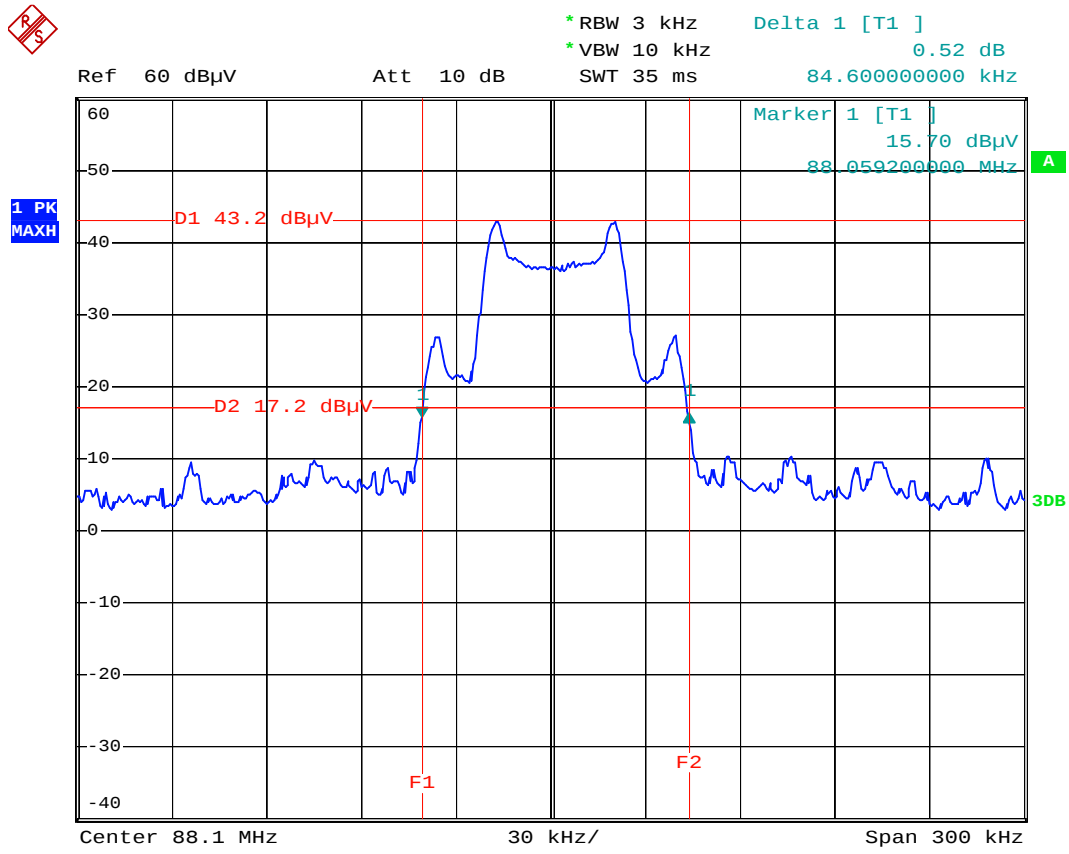
Engineer Signature: STAR

Distance: 3m

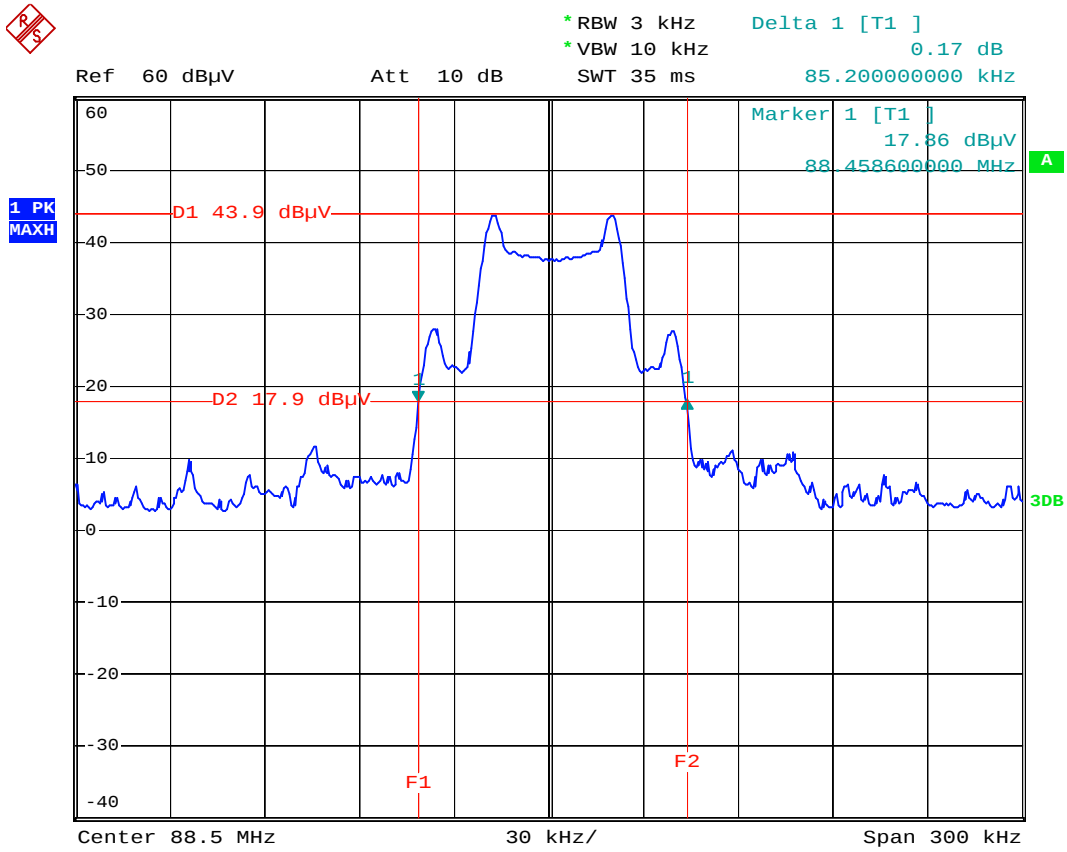
Note: Report No.:ATE20130366



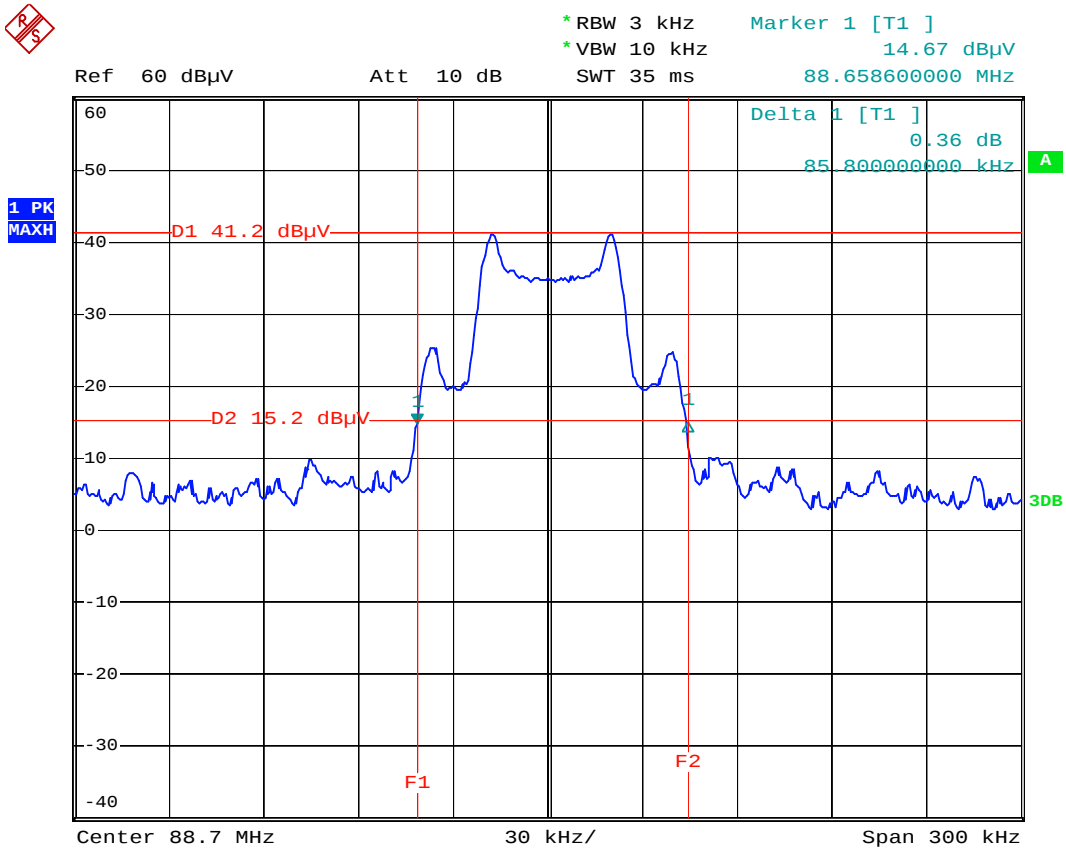
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	86.8960	30.10	-22.60	7.50	40.00	-32.50	QP			
2	88.6000	52.42	-22.65	29.77	43.50	-13.73	QP			
3	88.8000	50.86	-22.65	28.21	43.50	-15.29	QP			
4	89.8080	28.95	-22.68	6.27	43.50	-37.23	QP			



Date: 15.MAR.2013 16:56:54



Date: 15.MAR.2013 17:00:51



Date: 15.MAR.2013 17:07:31