

APPLICATION CERTIFICATION
On Behalf of
EVER BEST SOLUTIONS LIMITED

PowerMID RF Transmitter
Model No.: ST539(PM5900), ST10(PM10), PMXLIRX(PMXL)

FCC ID: O6PST539

Prepared for : EVER BEST SOLUTIONS LIMITED
Address : ROOM 2002, 20/F, HING YIP COMMERCIAL
CENTRE, 272-284 DES VOEUX ROAD CENTRAL,
HONGKONG

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Report Number : ATE20121026
Date of Test : May 18-31, 2012
Date of Report : May 31, 2012

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Test Report Certification

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231 ANSI 63.4: 2003

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 15.231. 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 : May 18-31, 2012

Prepared by :

1100

Appendix

~~Apple~~

(Engineer)

Approved & Authorized Signer :

Grand

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : PowerMID RF Transmitter
 Model Number : ST539(PM5900), ST10(PM10), PMXLIRX(PMXL)
 (Note: These samples are identical, except the appearance is difference. Therefore only model ST539(PM5900) is test.)

 Power Supply : DC 9V (Power by Adapter)
 Adaptor : Model number: SA/6PA/12FUS090020
 Input: AC 100-240V; 50/60Hz
 Output: DC 9V/200mA

 Operation Frequency : 434.017MHz

 Applicant : EVER BEST SOLUTIONS LIMITED
 Address : ROOM 2002, 20/F, HING YIP COMMERCIAL CENTRE, 272-284 DES VOEUX ROAD CENTRAL, HONGKONG

 Manufacturer : EVER BEST SOLUTIONS LIMITED
 Address : ROOM 2002, 20/F, HING YIP COMMERCIAL CENTRE, 272-284 DES VOEUX ROAD CENTRAL, HONGKONG

 Date of sample received : May 18, 2012

 Date of Test : May 18-31, 2012

1.2.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

1.3.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. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.231(b)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(a)(1)	Release Time Measurement	Compliant
Section 15.203	Antenna Requirement	Compliant

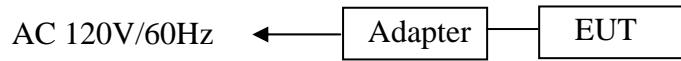
The product is a manually operated Remote Control transmitter.

Section 15.231 (a) (2), (3), (4) and (5) are not applicable.

4. THE FIELD STRENGTH OF RADIATION EMISSION

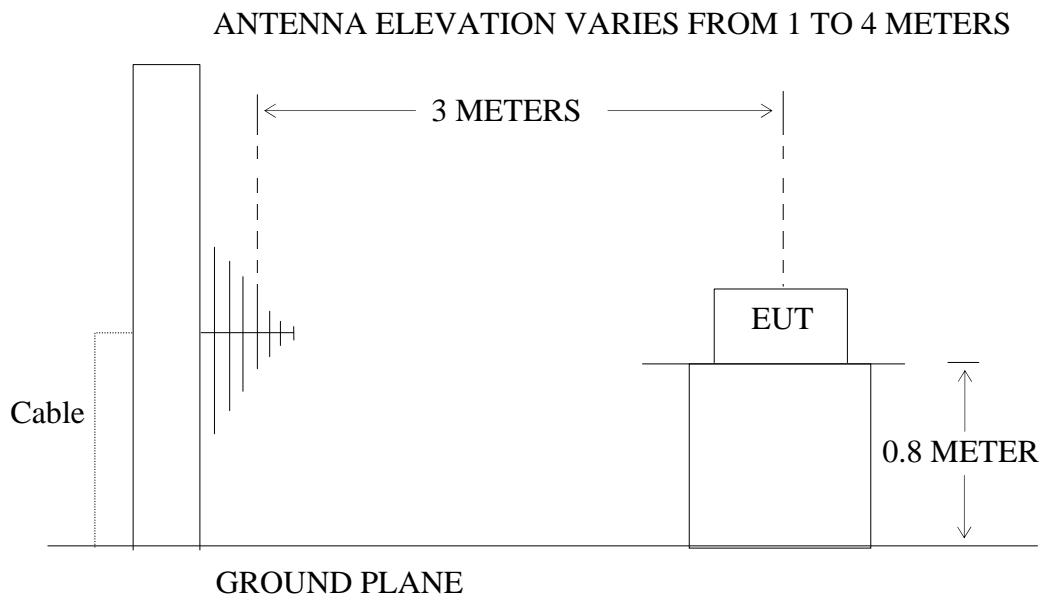
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: PowerMID RF Transmitter)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: PowerMID RF Transmitter)

4.2.The Field Strength of Radiation Emission Measurement Limits

4.2.1.Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(b)

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μ V/m]	Field Strength of Spurious Emission [Average] [μ V/m]
40.66-40.70	2250	225
70-130	1250	125
130-174	1250-3750	125-375
174-260	3750	375
260-470	3750-12500	375-1250
Above 470	12500	1250

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, μ V/m at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, μ V/m at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

4.2.2.Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

4.3.Configuration of EUT on Measurement

The following equipment is 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. PowerMID RF Transmitter (EUT)

Model Number : ST539(PM5900)
 Serial Number : N/A
 Manufacturer : EVER BEST SOLUTIONS LIMITED

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 mode measure it.

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 bi-log 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 EUT location must be manipulated according to ANSI 63.4 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120 kHz in 30-1000 MHz, and 1 MHz in 1000-5000 MHz.

The frequency range from 30 MHz to 5000 MHz is checked.

4.6. The Field Strength of Radiation Emission Measurement Results PASS.

The frequency range 30MHz to 5000MHz is investigated.

Date of Test:	May 23, 2012	Temperature:	25°C
EUT:	PowerMID RF Transmitter	Humidity:	50%
Model No.:	ST539(PM5900)	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Pei

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr.	Average Factor	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB)		Polarization
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
434.017	60.75	22.95	-4.97	78.73	83.70	80.8	100.8	-2.07	-17.10	Horizontal
867.5209	21.06	28.64	-4.97	44.73	49.70	60.8	80.8	-16.07	-31.10	
*1301.110	65.37	-12.20	-4.97	48.20	53.17	54.0	74.0	-5.80	-20.83	
434.017	61.56	22.95	-4.97	79.54	84.51	80.8	100.8	-1.26	-16.29	Vertical
867.6100	21.04	28.64	-4.97	44.71	49.68	60.8	80.8	-16.09	-31.12	
*1301.090	54.24	-12.20	-4.97	37.07	42.04	54.0	74.0	-16.93	-31.96	

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr. (dB)	Result (dB μ V/m)		Limit (dB μ V/m)		Margin (dB)		Polarization
	QP		QP	QP	QP	QP	QP	QP	
30.7469	15.67	17.63	33.30		40.00		-6.70		Vertical
34.0449	15.27	16.91	32.18		40.00		-7.82		Vertical
31.2915	9.21	17.07	26.28		40.00		-13.72		Horizontal
53.9450	11.65	13.37	25.02		40.00		-14.98		Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. *: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

3. 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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

4. FCC Limit for Average Measurement = $41.6667(434.017) - 7083.3333 = 11000.72283 \mu\text{V/m} = 80.8 \text{ dB}\mu\text{V/m}$

5. Pulse Desensitization Correction Factor

Pulse Width (PW) = 25.38ms

$1/\text{PW} = 1/25.38\text{ms} = 0.0394 \text{ kHz}$

RBW (100 kHz) > $1/\text{PW}$ (0.0394 kHz)

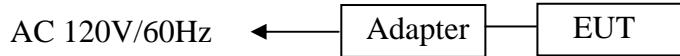
Therefore PDCF is not needed

6. The spectral diagrams in appendix I display the measurement of peak values.

5. 20DB OCCUPIED BANDWIDTH

5.1. Block Diagram of Test Setup

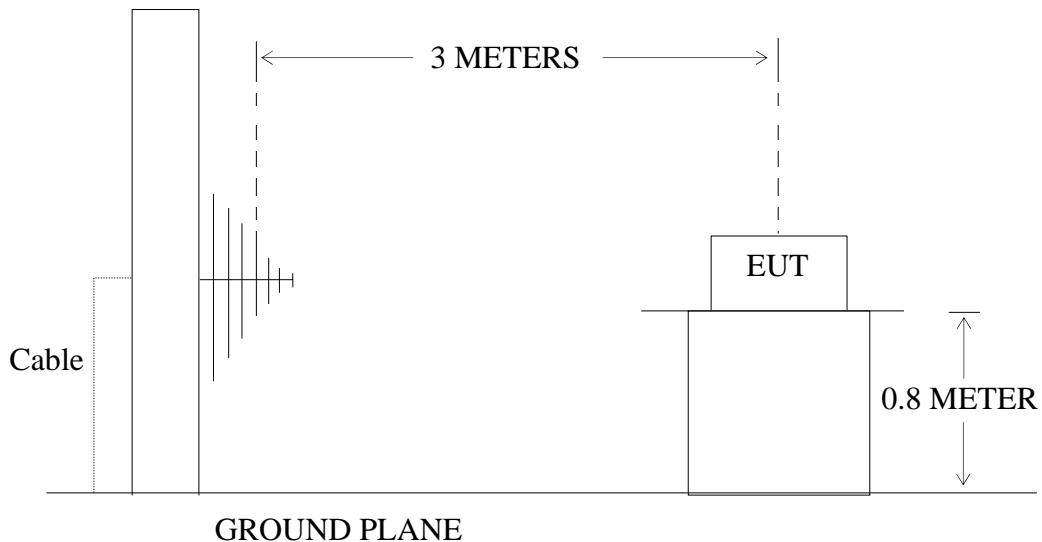
5.1.1. Block diagram of connection between the EUT and simulators



(EUT: PowerMID RF Transmitter)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



GROUND PLANE

(EUT: PowerMID RF Transmitter)

5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is $434.017 \text{ MHz} \times 0.25\% = 1085.043 \text{ kHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3.EUT Configuration on Measurement

The following equipment are installed on the bandwidth of 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.PowerMID RF Transmitter (EUT)

Model Number : ST539(PM5900)
Serial Number : N/A
Manufacturer : EVER BEST SOLUTIONS LIMITED

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 mode measure it.

5.5.Test Procedure

5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10 kHz, VBW = 30 kHz, Span = 500 kHz.

5.5.2.Set SPA Max hold, Mark peak, -20 dB.

5.6.Measurement Result

The EUT does meet the FCC requirement.

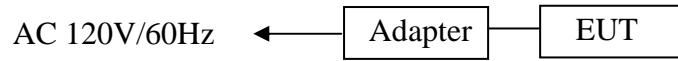
-20 dB bandwidth = 51.0 kHz < 1085.043 kHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

6.1. Block Diagram of Test Setup

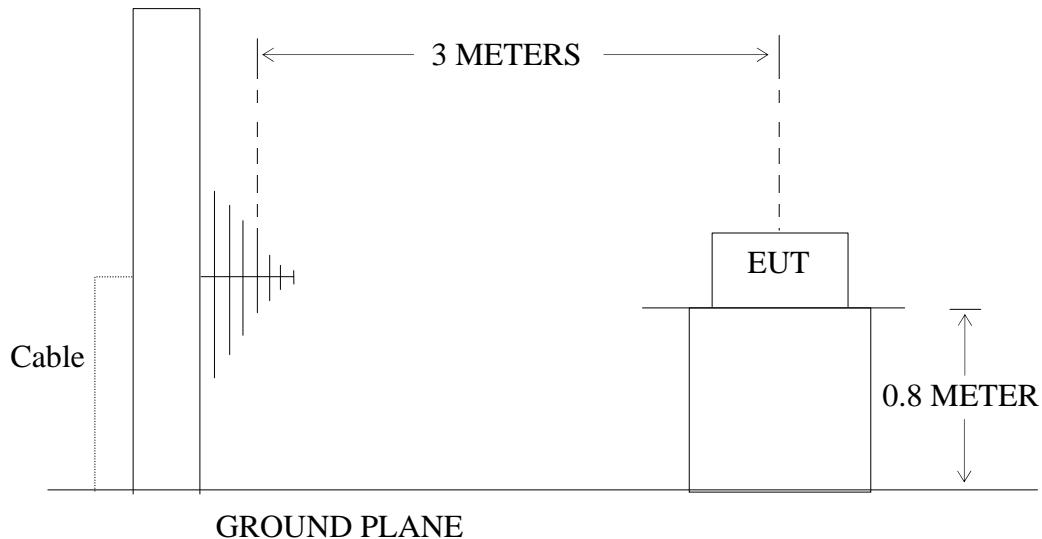
6.1.1. Block diagram of connection between the EUT and simulators



(EUT: PowerMID RF Transmitter)

6.1.2. Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: PowerMID RF Transmitter)

6.2. Release Time Measurement According To FCC Part 15 Section 15.231(a)

Section 15.231(a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

6.3.EUT Configuration on Measurement

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

6.3.1. PowerMID RF Transmitter (EUT)

Model Number : ST539(PM5900)
Serial Number : N/A
Manufacturer : EVER BEST SOLUTIONS LIMITED

6.4.Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX mode measure it.

6.5.Test Procedure

6.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz. Sweep time = 5 s.

6.5.2. Set EUT as normal operation and press Transmitter button.

6.5.3. Set SPA View. Delta Mark time.

6.6. Measurement Result

The release time less than 5 seconds.

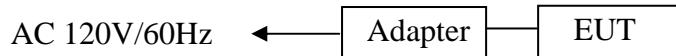
Release Time= 2.56s

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

7.1. Block Diagram of Test Setup

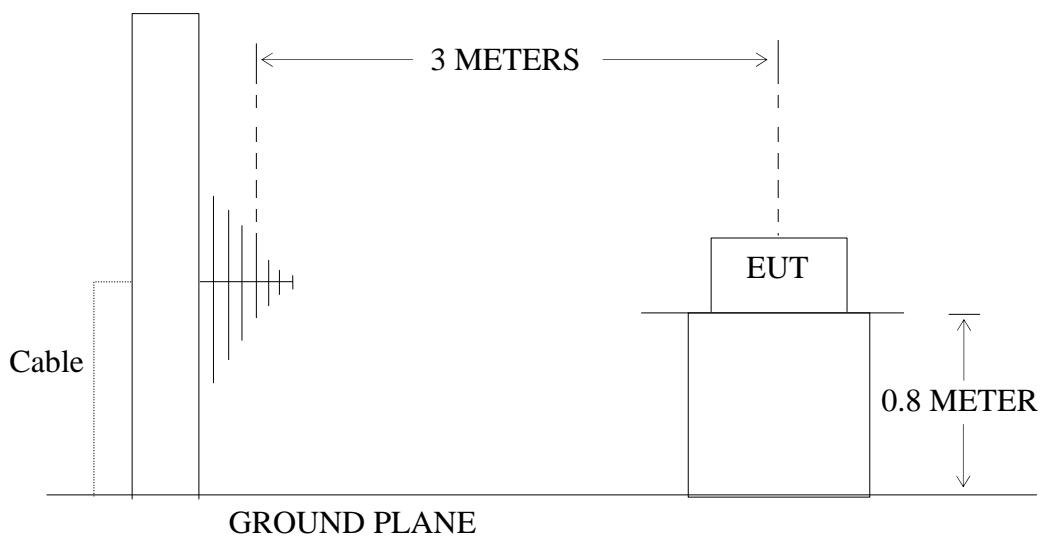
7.1.1. Block diagram of connection between the EUT and simulators



(EUT: PowerMID RF Transmitter)

7.1.2. Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



(EUT: PowerMID RF Transmitter)

7.2. Average factor Measurement according to ANSI 63.4: 2003

ANSI 63.4: 2003 Section 13.1.4.2 Devices transmitting pulsed emissions and subject to a limit requiring an average detector function for radiated emissions shall initially be measured with an instrument that uses a peak detector. A radiated emission measured with a peak detector may then be corrected to a true average using the appropriate factor for emission duty cycle. This correction factor relates the measured peak level to the average limit and is derived by averaging absolute field strength over one complete pulse train that is 0.1 s, or less, in length. If the pulse train is longer than 0.1 s, the average shall be determined from the average absolute field strength during the 0.1 s interval in which the field strength is at a maximum. Instructions on calculating the duty cycle of a transmitter with pulsed emissions are provided in ANSI 63.4 H.4, step j.

Average factor in dB = 20 log (duty cycle)

7.3.EUT Configuration on Measurement

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

7.3.1. PowerMID RF Transmitter (EUT)

Model Number : ST539(PM5900)
 Serial Number : N/A
 Manufacturer : EVER BEST SOLUTIONS LIMITED

7.4.Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX mode measure it.

7.5.Test Procedure

7.5.1. The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.

7.5.2. Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.

7.5.3. Set EUT as normal operation.

7.5.4. Set SPA View. Delta Mark time.

7.6. Measurement Result

The duty cycle is simply the on time divided by the period:

The duration of one cycle = 45 ms

Effective period of the cycle = $(0.5 \times 11) + (1.42 \times 14)$ ms = 25.38 ms

$$DC = 25.38 \text{ ms} / 45 \text{ ms} = 0.564$$

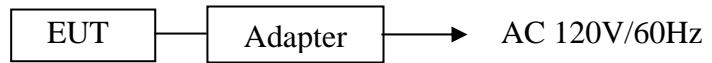
Therefore, the average factor is found by $20\log 0.564 = -4.97 \text{ dB}$

The spectral diagrams in appendix I.

8. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

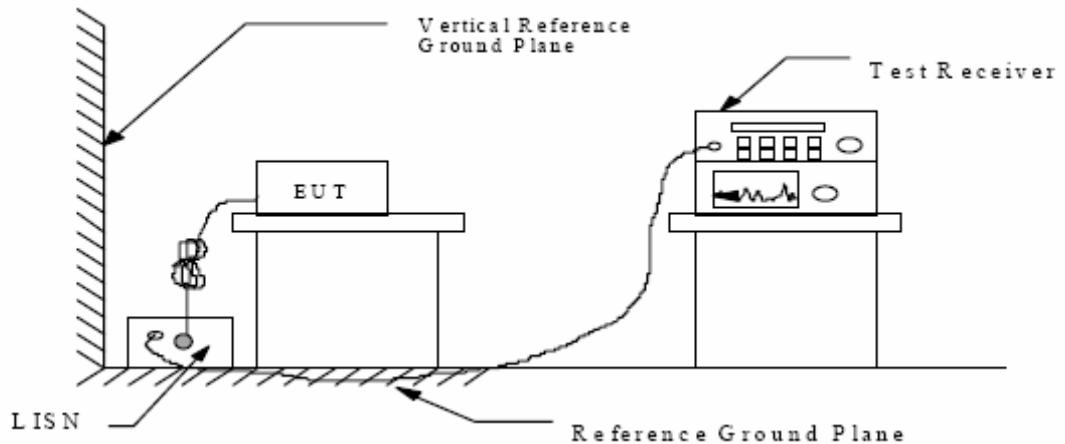
8.1. Block Diagram of Test Setup

8.1.1. Block diagram of connection between the EUT and simulators



(EUT: PowerMID RF Transmitter)

8.1.2. Shielding Room Test Setup Diagram



(EUT: PowerMID RF Transmitter)

8.2. The Emission Limit

8.2.1. Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	56.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

8.3.Configuration of EUT on Measurement

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

8.3.1.PowerMID RF Transmitter (EUT)

Model Number	:	ST539(DM5900)
Serial Number	:	N/A
Manufacturer	:	EVER BEST SOLUTIONS LIMITED

8.4.Operating Condition of EUT

8.4.1.Setup the EUT and simulator as shown as Section 8.1.

8.4.2.Turn on the power of all equipment.

8.4.3.Let the EUT work in Tx mode measure it.

8.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

8.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	May 23, 2012	Temperature:	25°C
EUT:	PowerMID RF Transmitter	Humidity:	50%
Model No.:	ST539(DM5900)	Power Supply:	AC 120V/ 60Hz
Test Mode:	Tx	Test Engineer:	Kai

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.263357	31.30	61.3	-30.0	QP	Neutral
0.335971	33.50	59.3	-25.8	QP	
0.523291	29.00	56.0	-27.0	QP	
0.335971	18.20	49.3	-31.1	AV	
0.328019	41.00	59.5	-18.5	QP	Live
0.506843	38.50	56.0	-17.5	QP	
1.305460	33.80	56.0	-22.2	QP	
0.334632	26.80	49.3	-22.5	AV	
1.181465	16.40	46.0	-29.6	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

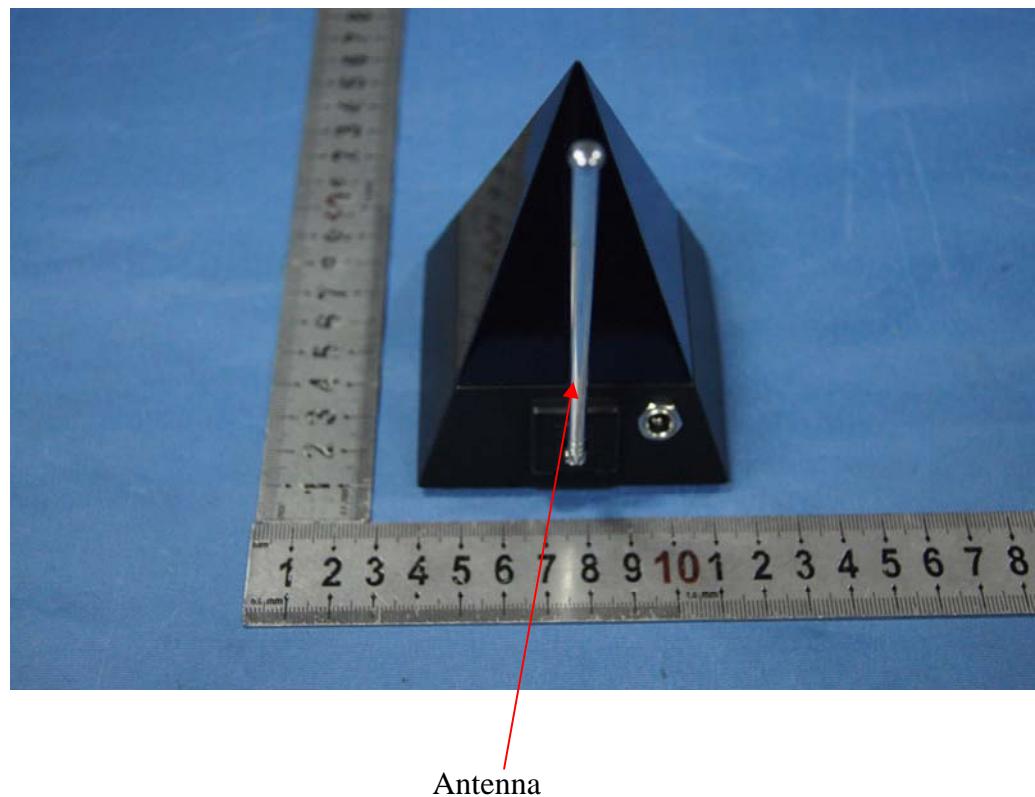
9. ANTENNA REQUIREMENT

9.1. 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.

9.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



APPENDIX I

(Test Curves)



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	Star #1042	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2012/05/23
Temp.(C)/Hum.(%)	24 C / 48 %	Time:	19:52:05
EUT:	Power MID RF Transmitter	Engineer Signature:	Star
Mode:	TX	Distance:	3m
Model:	ST539		
Manufacturer:	EVER BEST		
Note:	Report No.:ATE20121026		

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	31.2915	9.21	17.07	26.28	40.00	-13.72	QP			
2	53.9450	11.65	13.37	25.02	40.00	-14.98	QP			
3	434.0170	60.75	22.95	83.70	100.8	-17.1	peak			
4	867.5209	21.06	28.84	49.70	80.8	-31.1	peak			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	STAR #1040	Polarization:	Horizontal							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2012/05/23							
Temp.(C)/Hum.(%)	24 C / 48 %	Time:	19:45:12							
EUT:	Power MID RF Transmitter	Engineer Signature:	Star							
Mode:	TX	Distance:	3m							
Model:	ST539									
Manufacturer:	EVER BEST									
Note:	Report No.:ATE20121056									
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.110	65.37	-12.20	53.17	74.00	-20.83	peak			



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Star #1043	Polarization: Vertical																																																							
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz																																																							
Test item: Radiation Test	Date: 2012/05/23																																																							
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:55:19																																																							
EUT: Power MID RF Transmitter	Engineer Signature: Star																																																							
Mode: TX	Distance: 3m																																																							
Model: ST539																																																								
Manufacturer: EVER BEST																																																								
Note: Report No.:ATE20121026																																																								
<table border="1"> <thead> <tr> <th>No.</th><th>Freq. (MHz)</th><th>Reading (dBuV/m)</th><th>Factor (dB)</th><th>Result (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th><th>Height (cm)</th><th>Degree (deg.)</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>1</td><td>30.7469</td><td>15.67</td><td>17.63</td><td>33.30</td><td>40.00</td><td>-6.70</td><td>QP</td><td></td><td></td><td></td></tr> <tr> <td>2</td><td>34.0449</td><td>15.27</td><td>16.91</td><td>32.18</td><td>40.00</td><td>-7.82</td><td>QP</td><td></td><td></td><td></td></tr> <tr> <td>3</td><td>434.0170</td><td>61.56</td><td>22.95</td><td>84.51</td><td>100.8</td><td>-16.29</td><td>peak</td><td></td><td></td><td></td></tr> <tr> <td>4</td><td>867.6100</td><td>21.04</td><td>28.64</td><td>49.68</td><td>80.8</td><td>-31.32</td><td>peak</td><td></td><td></td><td></td></tr> </tbody> </table>		No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	1	30.7469	15.67	17.63	33.30	40.00	-6.70	QP				2	34.0449	15.27	16.91	32.18	40.00	-7.82	QP				3	434.0170	61.56	22.95	84.51	100.8	-16.29	peak				4	867.6100	21.04	28.64	49.68	80.8	-31.32	peak			
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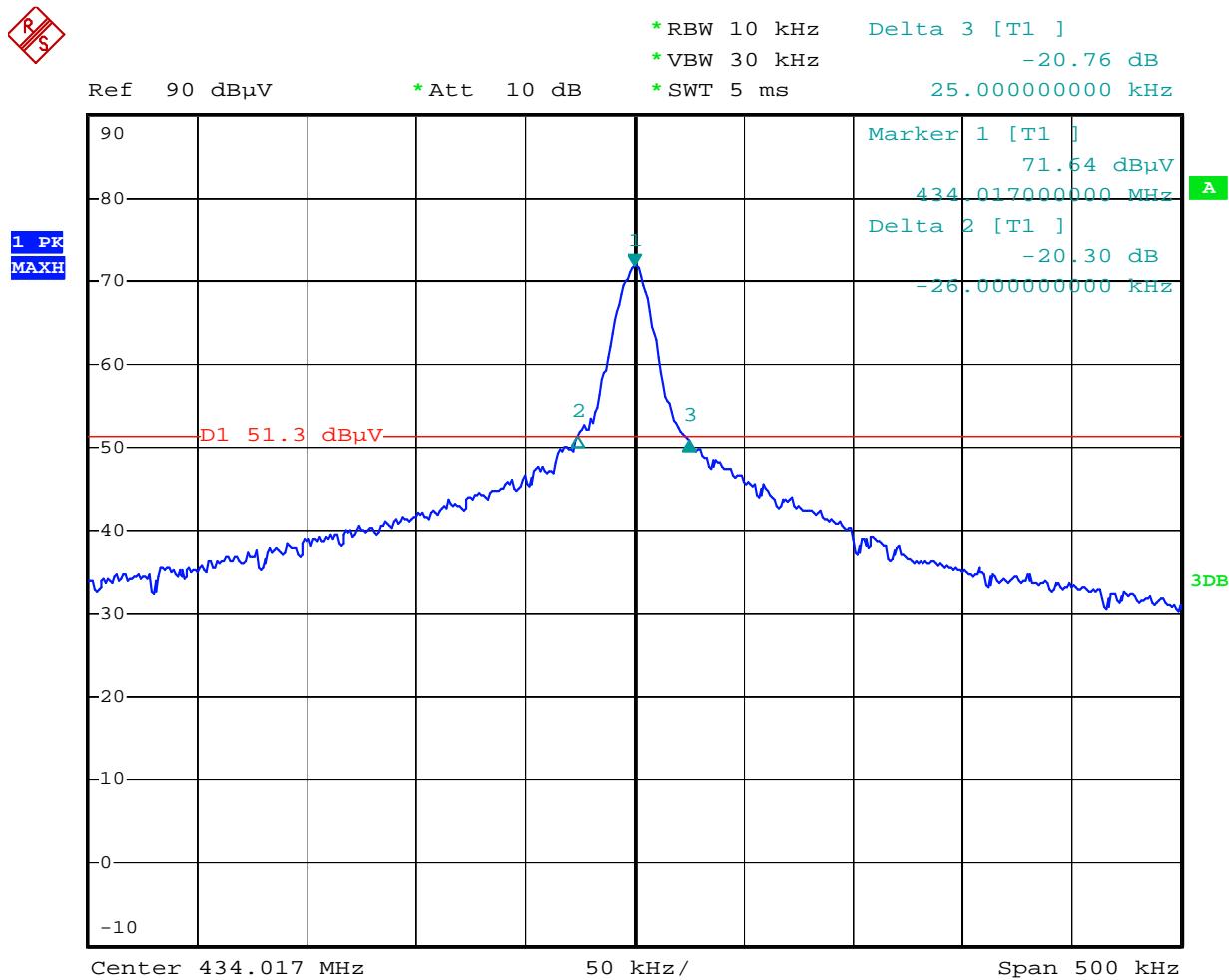


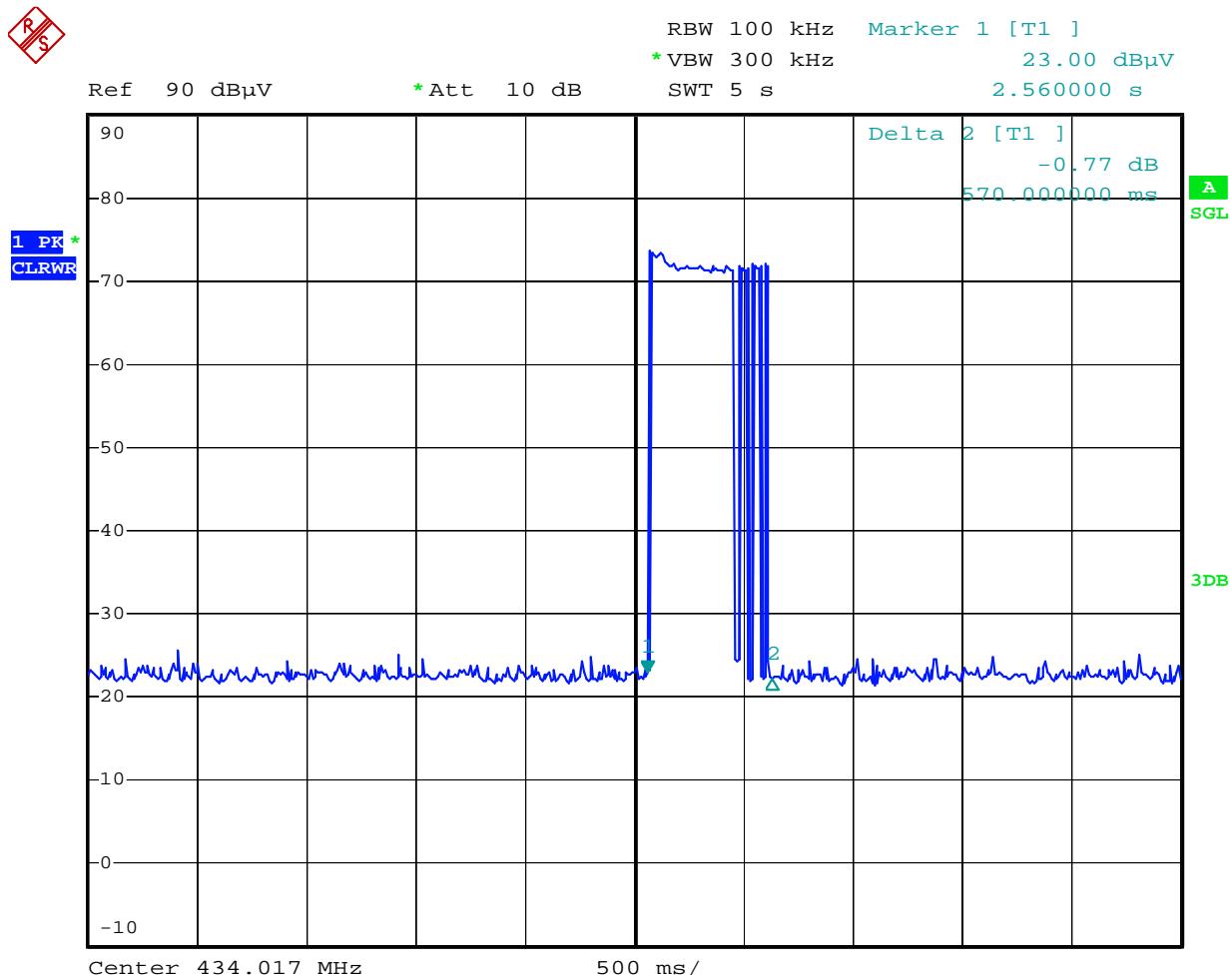
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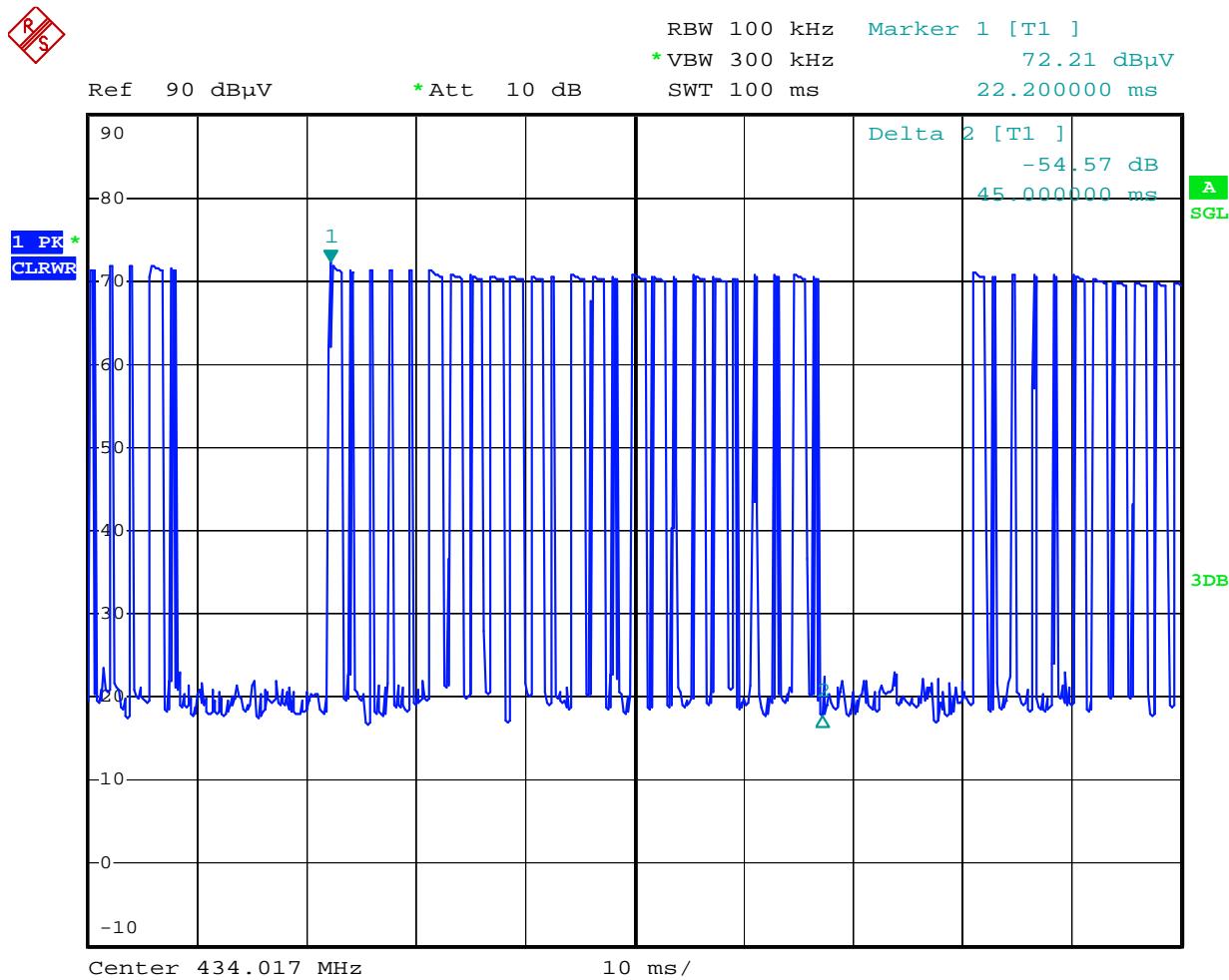
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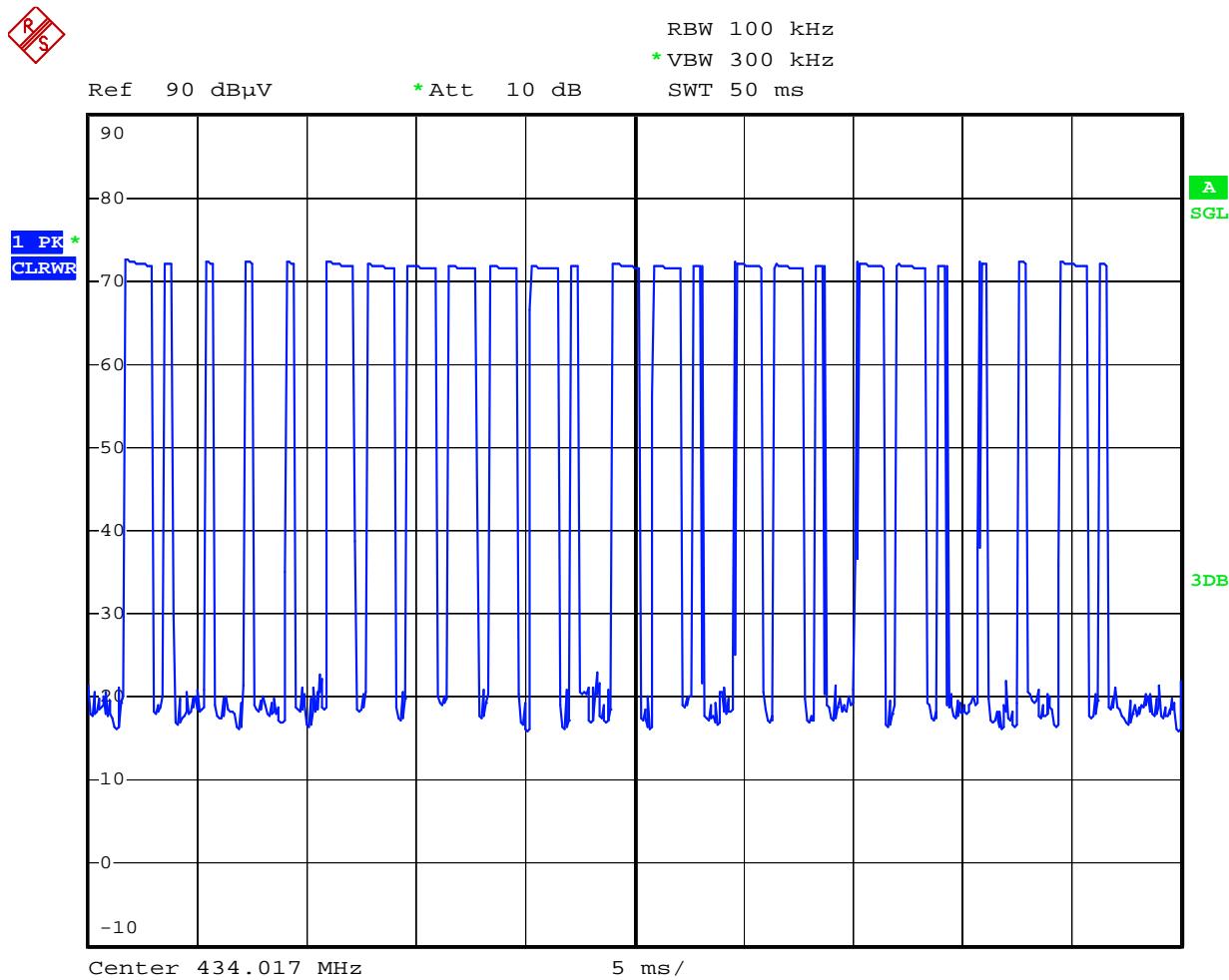
Job No.: STAR #1041	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2012/05/23									
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 19:47:24									
EUT: Power MID RF Transmitter	Engineer Signature: Star									
Mode: TX	Distance: 3m									
Model: ST539										
Manufacturer: EVER BEST										
Note: Report No.:ATE20121056										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.090	54.24	-12.20	42.04	74.00	-31.96	peak			



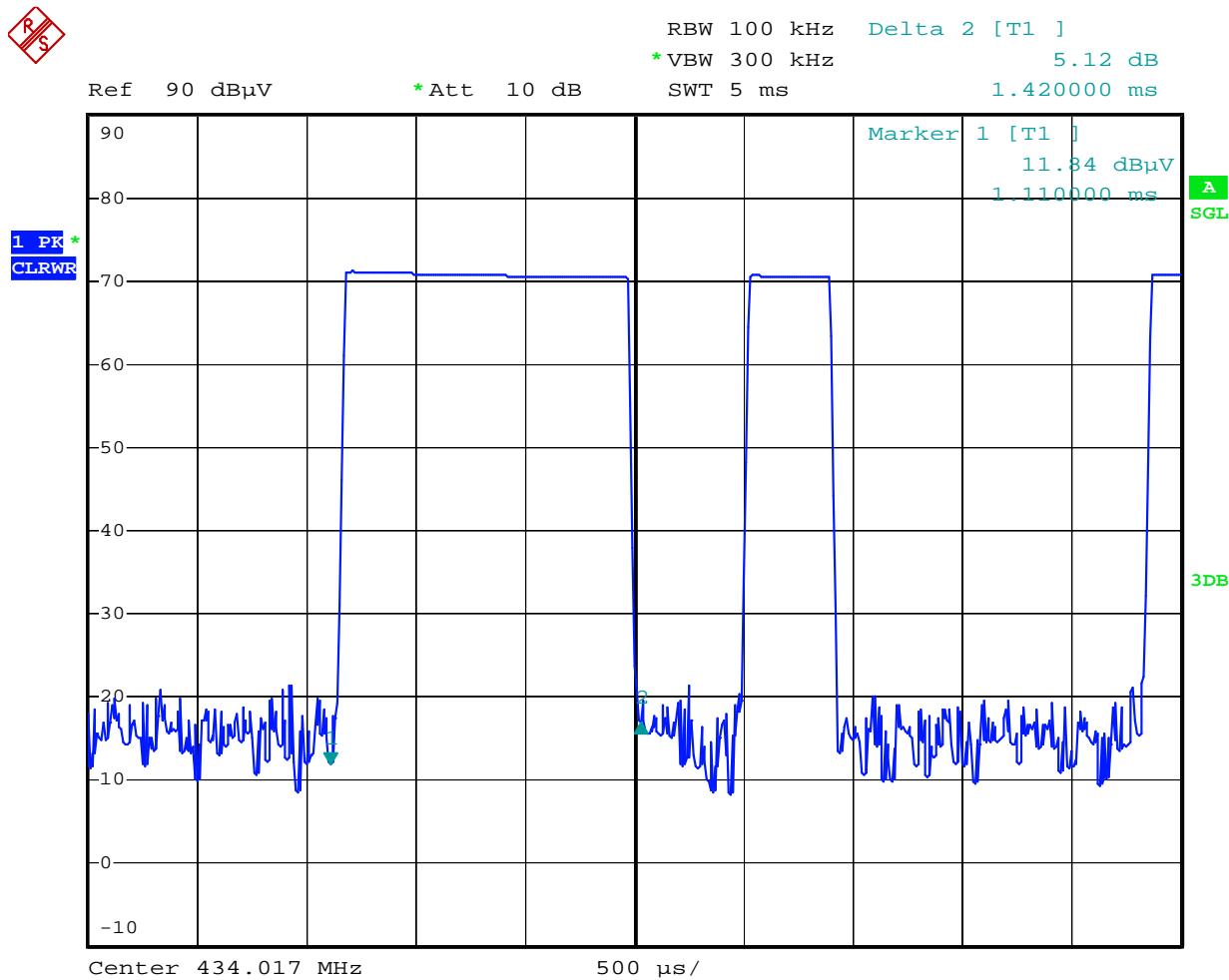




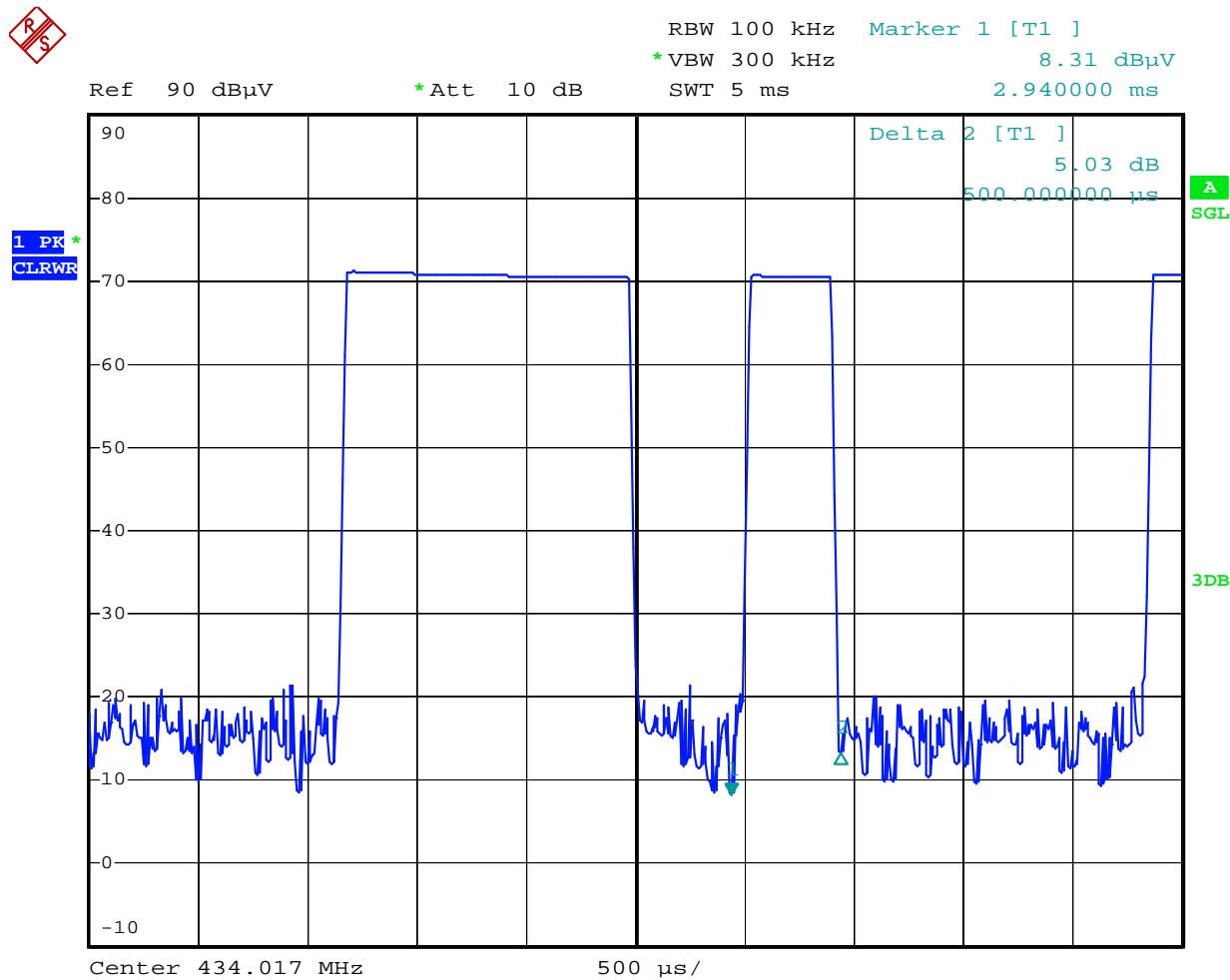
The graph shows the pattern of coding during the signal transmission.
 The duration of one cycle = 45 ms.



The graph shows the pattern of coding during the signal transmission.



The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 1.42 ms.



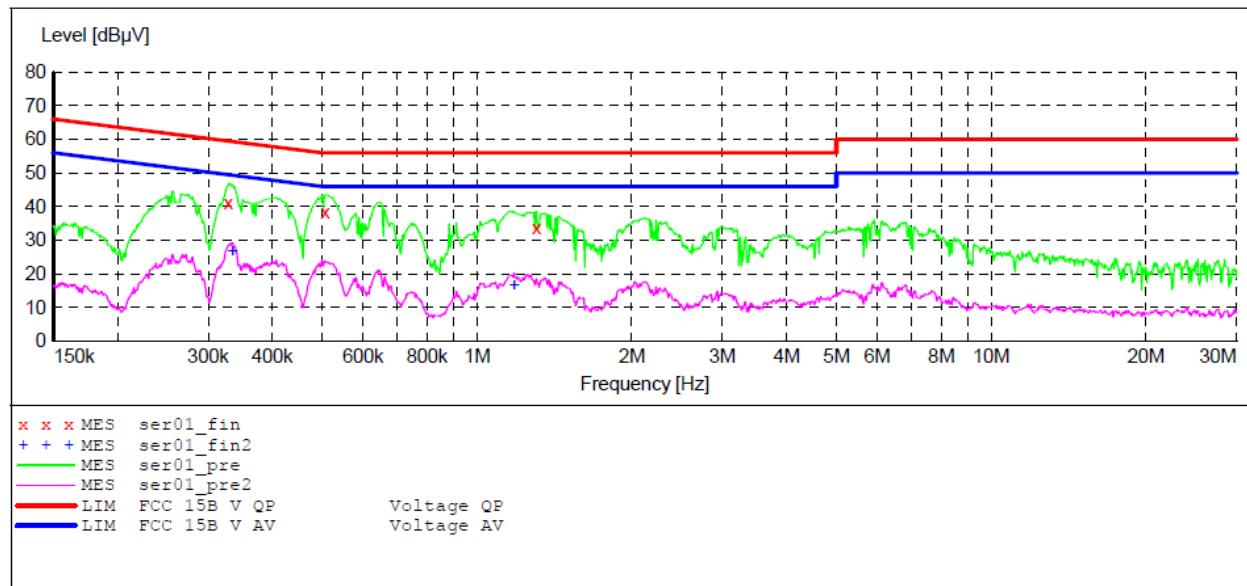
The graph shows the duration of 'on' signal. From marker 1 to marker 2, duration is 0.5 ms.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: PowerMID RF Transmitter M/N:ST539 (PM5900)
 Manufacturer: EVER BES
 Operating Condition: Tx
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE
 Start of Test: 5/23/2012 / 3:39:55PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "ser01_fin"**

5/23/2012 3:41PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.328019	41.00	11.6	59.5	18.5	QP	L1	GND
0.506843	38.50	12.0	56	17.5	QP	L1	GND
1.305460	33.80	11.8	56	22.2	QP	L1	GND

MEASUREMENT RESULT: "ser01_fin2"

5/23/2012 3:41PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.334632	26.80	11.7	49.3	22.5	AV	L1	GND
1.181465	16.40	11.8	46	29.6	AV	L1	GND

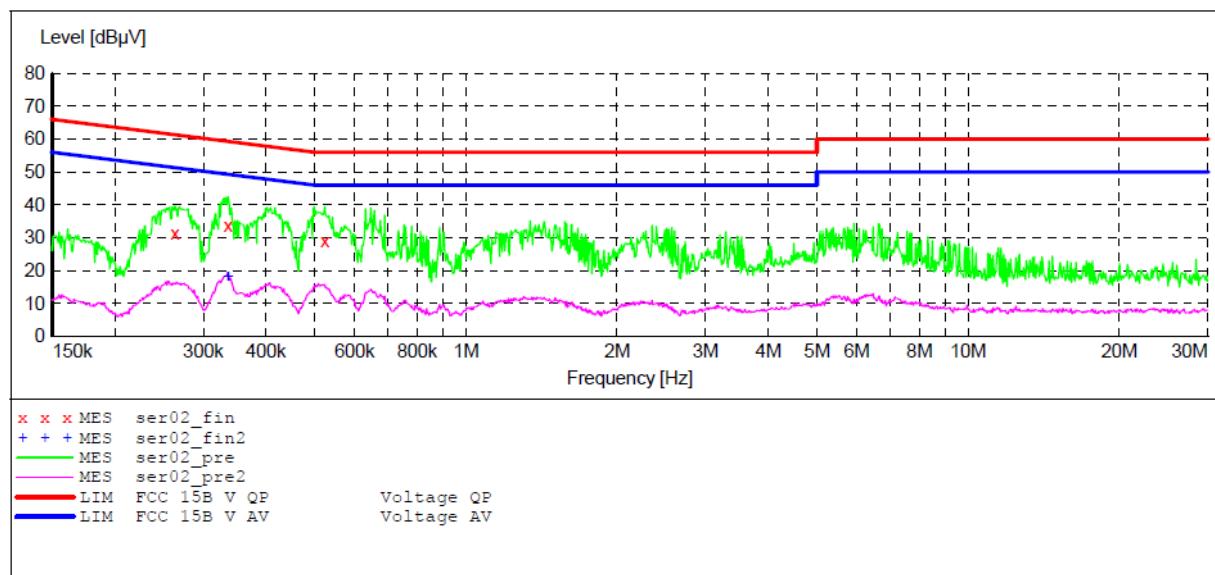
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: PowerMID RF Transmitter M/N:ST539 (PM5900)
 Manufacturer: EVER BES
 Operating Condition: Tx
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE
 Start of Test: 5/23/2012 / 3:42:27PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "ser02_fin"

5/23/2012 3:44PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.263357	31.30	11.5	61.3	30.0	QP	N	GND
0.335971	33.50	11.7	59.3	25.8	QP	N	GND
0.523291	29.00	12.0	56	27.0	QP	N	GND

MEASUREMENT RESULT: "ser02_fin2"

5/23/2012 3:44PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.335971	18.20	11.7	49.3	31.1	AV	N	GND