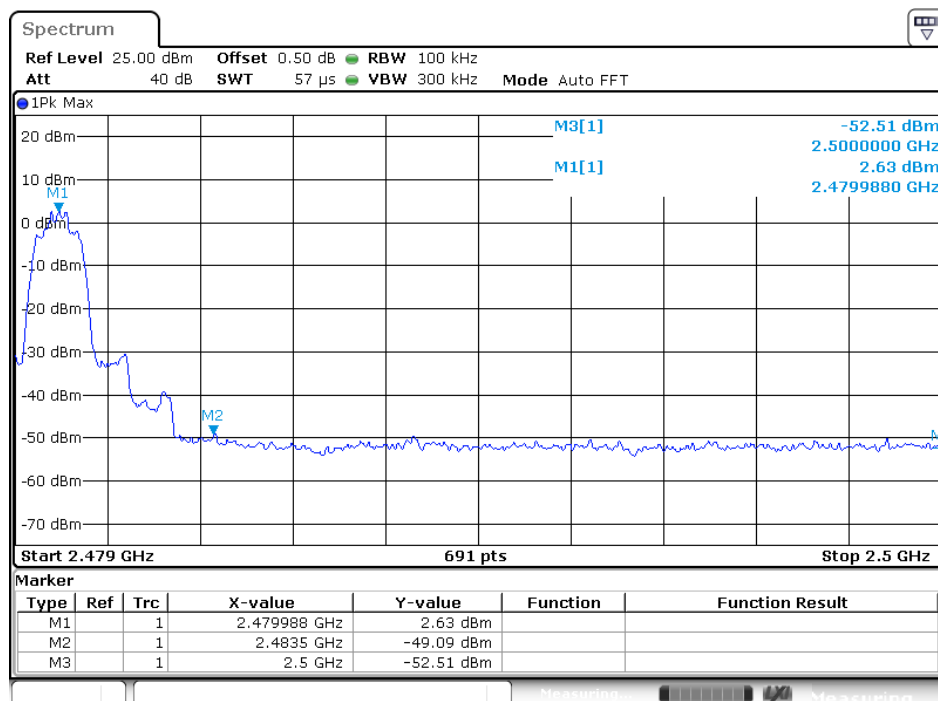
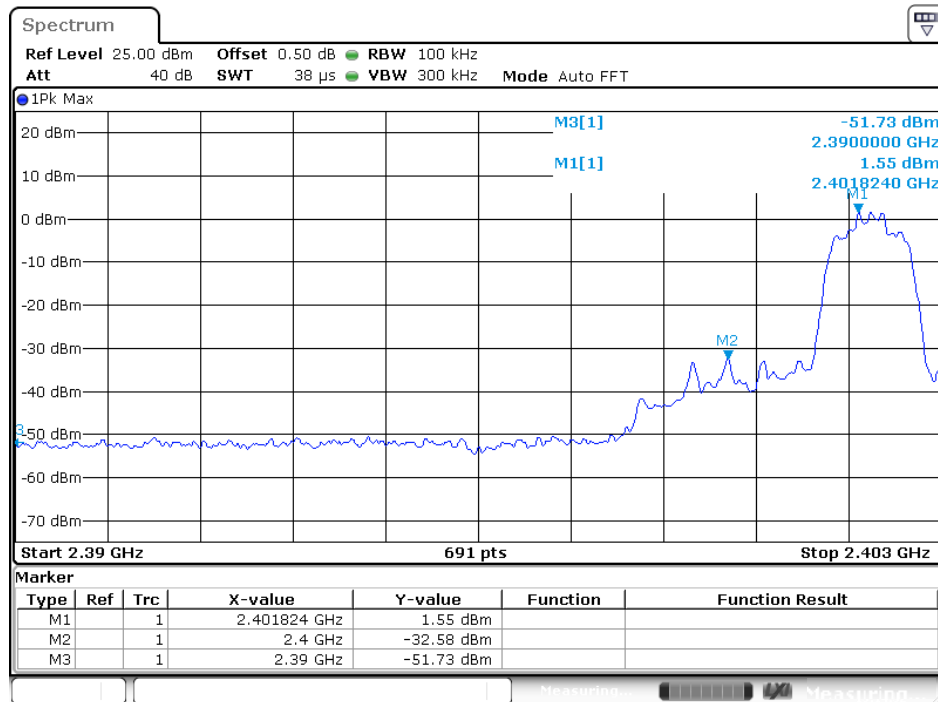


## 8DPSK



## Radiated Band Edge Result

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:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). 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 C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.

We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).

We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

## Non-hopping mode



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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.: JC #61

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: OttoTurntable

Mode: TX 2402MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

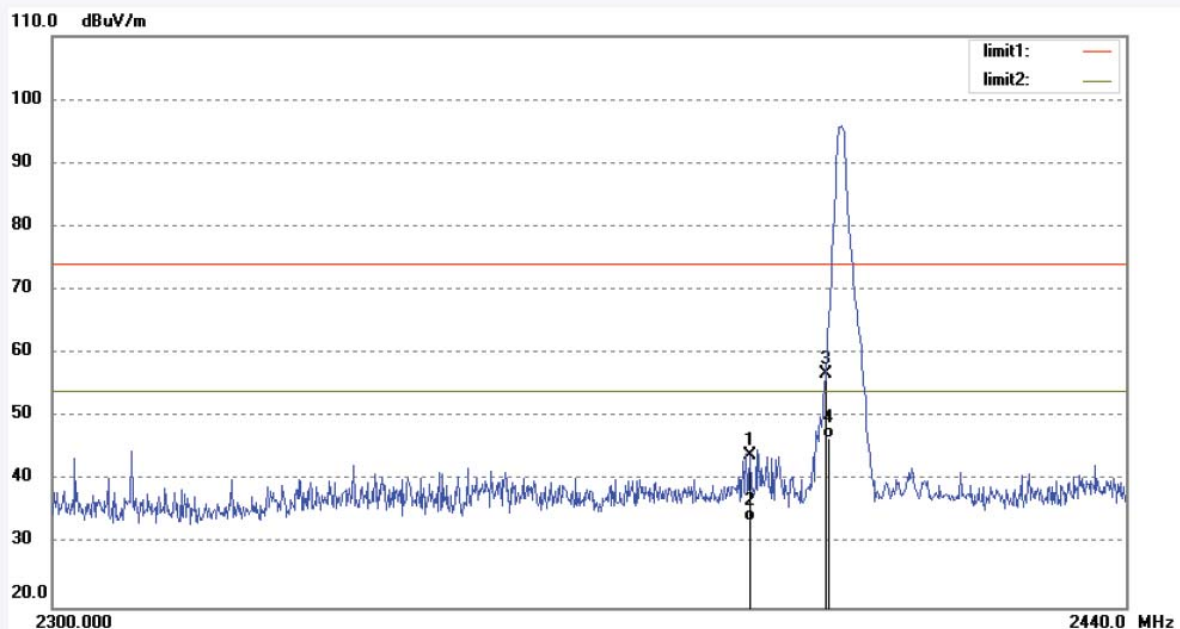
Date: 18/01/12/

Time: 9/16/31

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 49.90            | -5.89       | 44.01           | 74.00          | -29.99      | peak     | 150         | 246           |        |
| 2   | 2390.000    | 39.52            | -5.89       | 33.63           | 54.00          | -20.37      | AVG      | 150         | 246           |        |
| 3   | 2400.000    | 62.58            | -5.80       | 56.78           | 74.00          | -17.22      | peak     | 150         | 333           |        |
| 4   | 2400.000    | 52.41            | -5.80       | 46.61           | 54.00          | -7.39       | AVG      | 150         | 333           |        |

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #62

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2402MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

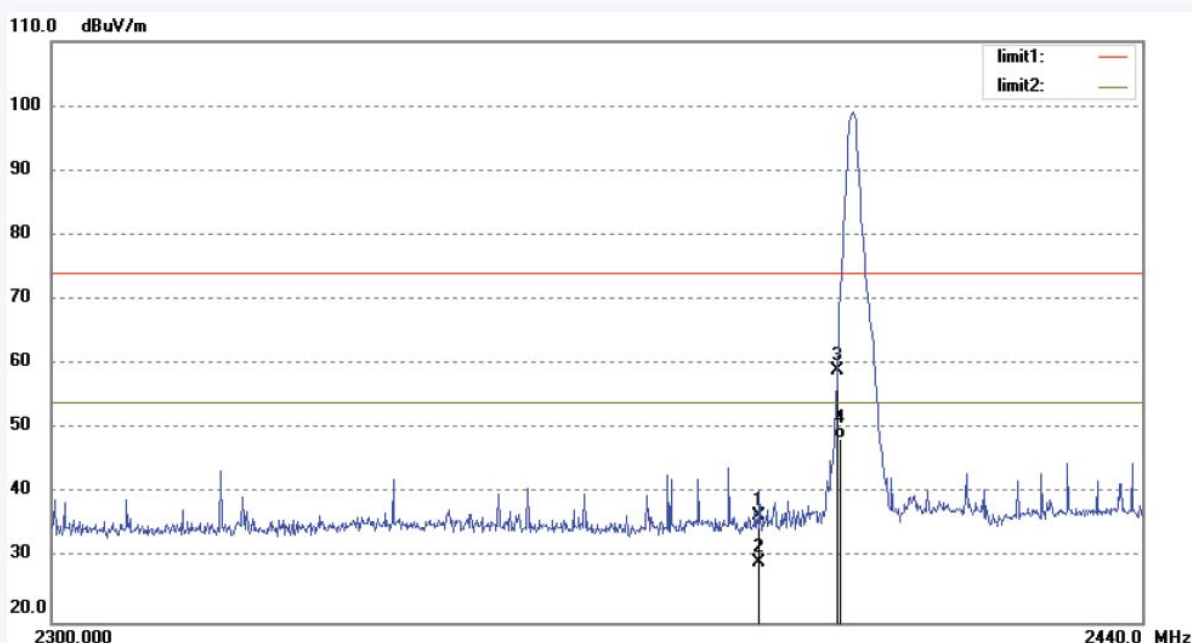
Date: 18/01/12/

Time: 9/20/00

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 42.34            | -5.89       | 36.45           | 74.00          | -37.55      | peak     | 150         | 223           |        |
| 2   | 2390.000    | 35.12            | -5.89       | 29.23           | 74.00          | -44.77      | peak     | 150         | 223           |        |
| 3   | 2400.000    | 64.79            | -5.80       | 58.99           | 74.00          | -15.01      | peak     | 150         | 146           |        |
| 4   | 2400.000    | 54.23            | -5.80       | 48.43           | 54.00          | -5.57       | AVG      | 150         | 146           |        |

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.: JC #63

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

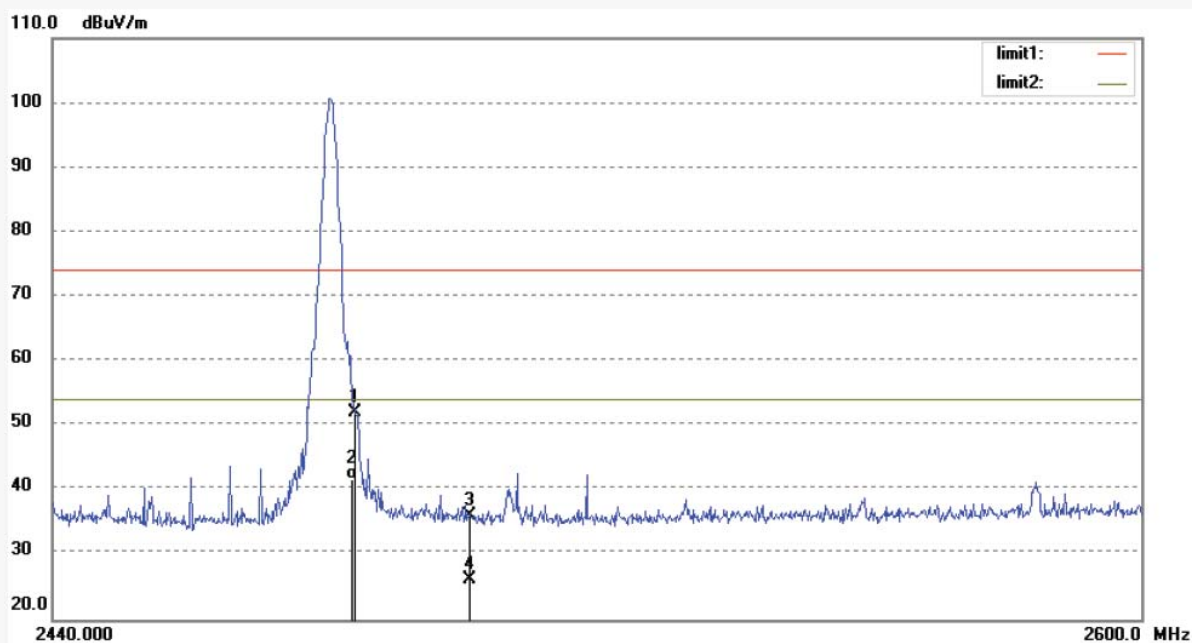
Date: 18/01/12/

Time: 9/25/19

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 57.50            | -5.51       | 51.99           | 74.00          | -22.01      | peak     | 150         | 24            |        |
| 2   | 2483.500    | 47.26            | -5.51       | 41.75           | 54.00          | -12.25      | AVG      | 150         | 24            |        |
| 3   | 2500.000    | 41.53            | -5.50       | 36.03           | 74.00          | -37.97      | peak     | 150         | 332           |        |
| 4   | 2500.000    | 31.72            | -5.50       | 26.22           | 74.00          | -47.78      | peak     | 150         | 332           |        |

Note: Average measurement with peak detection at No.2&4





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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #64

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

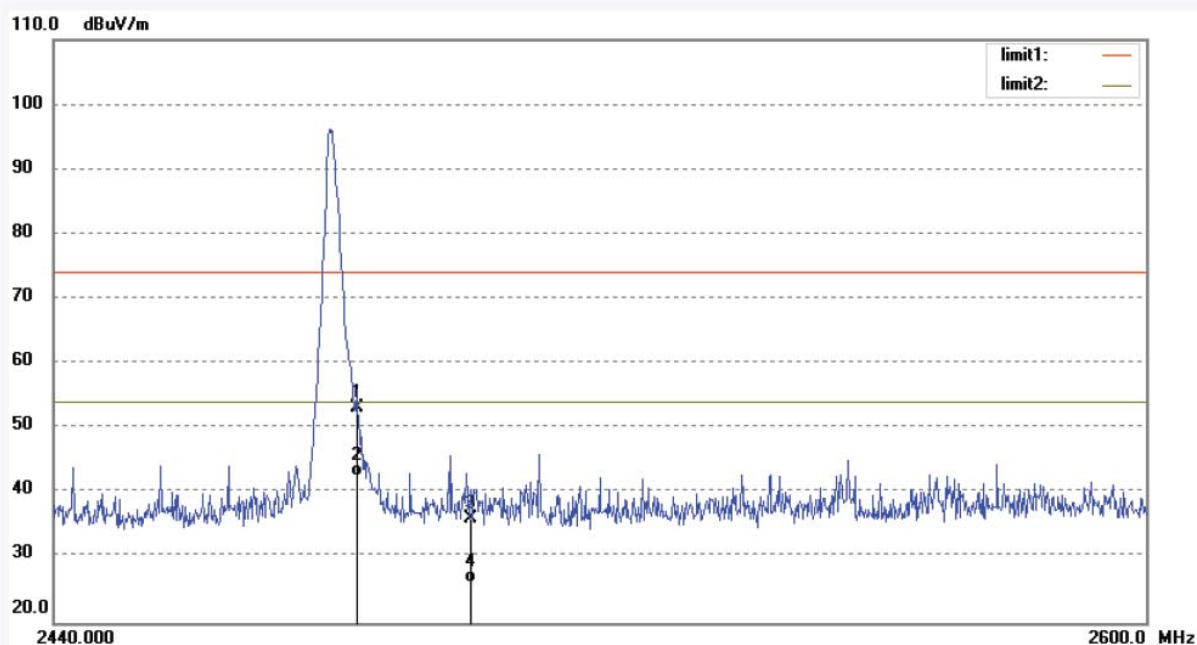
Date: 18/01/12/

Time: 9/38/50

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 58.75            | -5.51       | 53.24           | 74.00          | -20.76      | peak     | 150         | 241           |        |
| 2   | 2483.500    | 48.02            | -5.51       | 42.51           | 54.00          | -11.49      | AVG      | 150         | 241           |        |
| 3   | 2500.000    | 41.57            | -5.50       | 36.07           | 74.00          | -37.93      | peak     | 150         | 111           |        |
| 4   | 2500.000    | 31.63            | -5.50       | 26.13           | 54.00          | -27.87      | AVG      | 150         | 111           |        |

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #65

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2402MHz( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

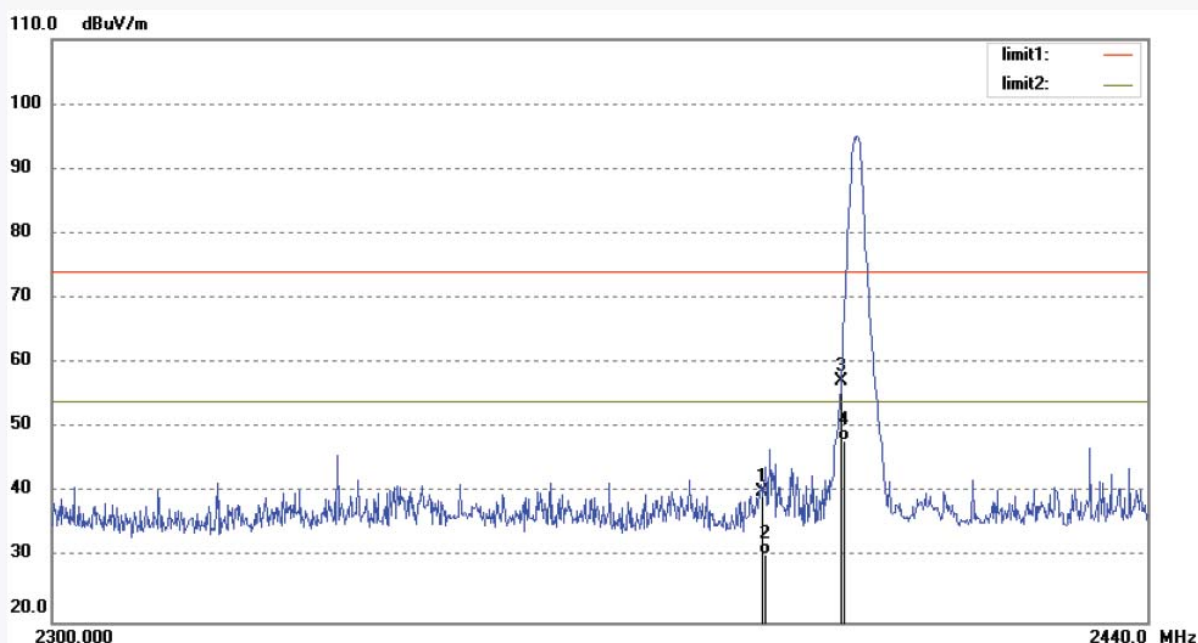
Date: 18/01/12/

Time: 9/42/57

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 46.04            | -5.89       | 40.15           | 74.00          | -33.85      | peak     | 150         | 154           |        |
| 2   | 2390.000    | 36.25            | -5.89       | 30.36           | 54.00          | -23.64      | AVG      | 150         | 154           |        |
| 3   | 2400.000    | 63.15            | -5.80       | 57.35           | 74.00          | -16.65      | peak     | 150         | 222           |        |
| 4   | 2400.000    | 53.74            | -5.80       | 47.94           | 54.00          | -6.06       | AVG      | 150         | 222           |        |

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #66

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2402MHz( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

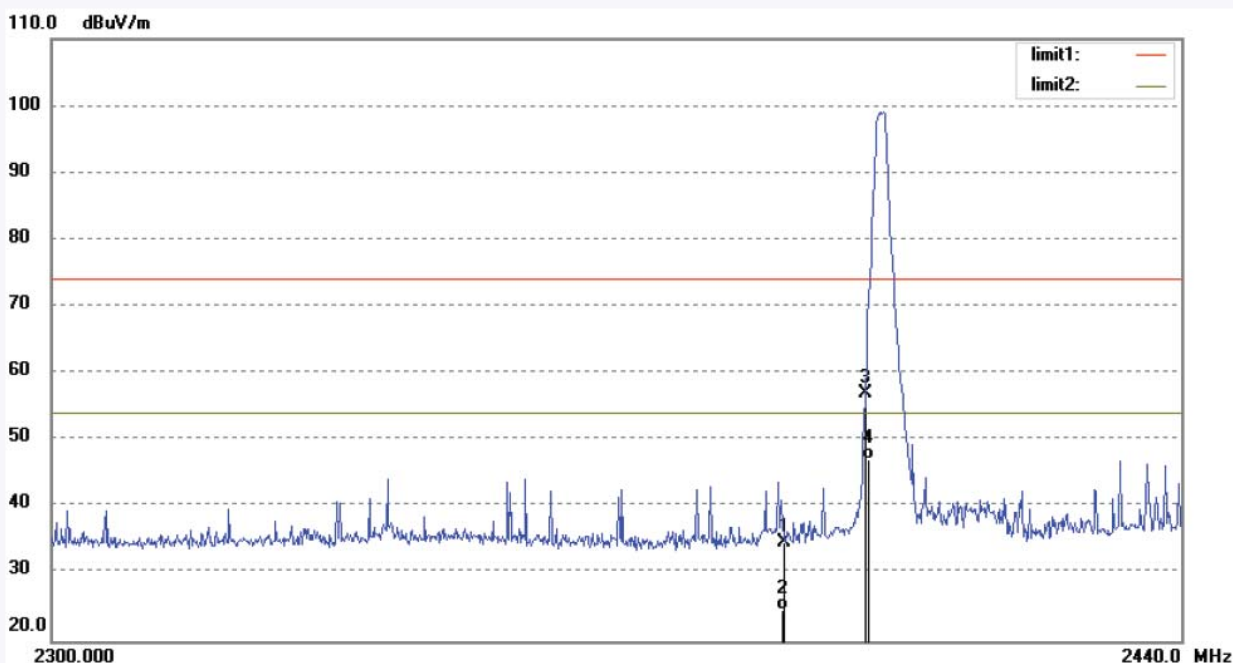
Date: 18/01/12/

Time: 9/45/58

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 40.65            | -5.89       | 34.76           | 74.00          | -39.24      | peak     | 150         | 36            |        |
| 2   | 2390.000    | 30.47            | -5.89       | 24.58           | 54.00          | -29.42      | AVG      | 150         | 36            |        |
| 3   | 2400.000    | 62.92            | -5.80       | 57.12           | 74.00          | -16.88      | peak     | 150         | 113           |        |
| 4   | 2400.000    | 52.94            | -5.80       | 47.14           | 54.00          | -6.86       | AVG      | 150         | 113           |        |

Note: Average measurement with peak detection at No.2&4





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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #67

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

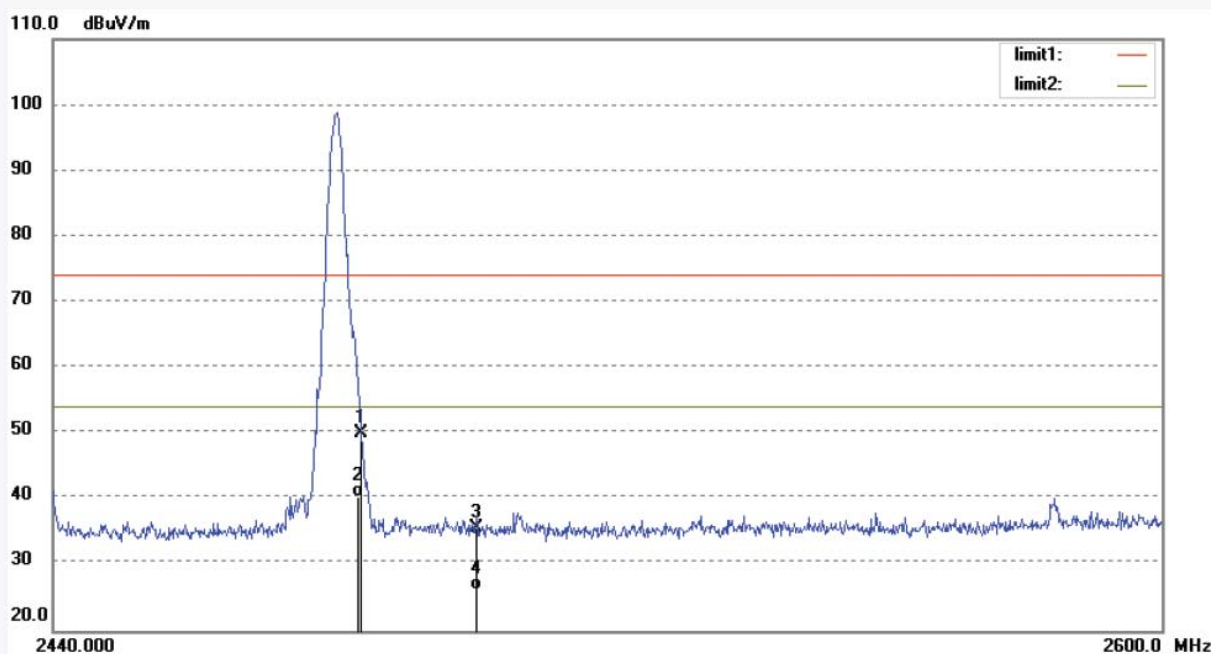
Date: 18/01/12/

Time: 9/49/54

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 55.46            | -5.51       | 49.95           | 74.00          | -24.05      | peak     | 150         | 158           |        |
| 2   | 2483.500    | 45.78            | -5.51       | 40.27           | 54.00          | -13.73      | AVG      | 150         | 158           |        |
| 3   | 2500.000    | 41.18            | -5.50       | 35.68           | 74.00          | -38.32      | peak     | 150         | 246           |        |
| 4   | 2500.000    | 31.64            | -5.50       | 26.14           | 54.00          | -27.86      | AVG      | 150         | 246           |        |

Note: Average measurement with peak detection at No.2&4



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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.: JC #68

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

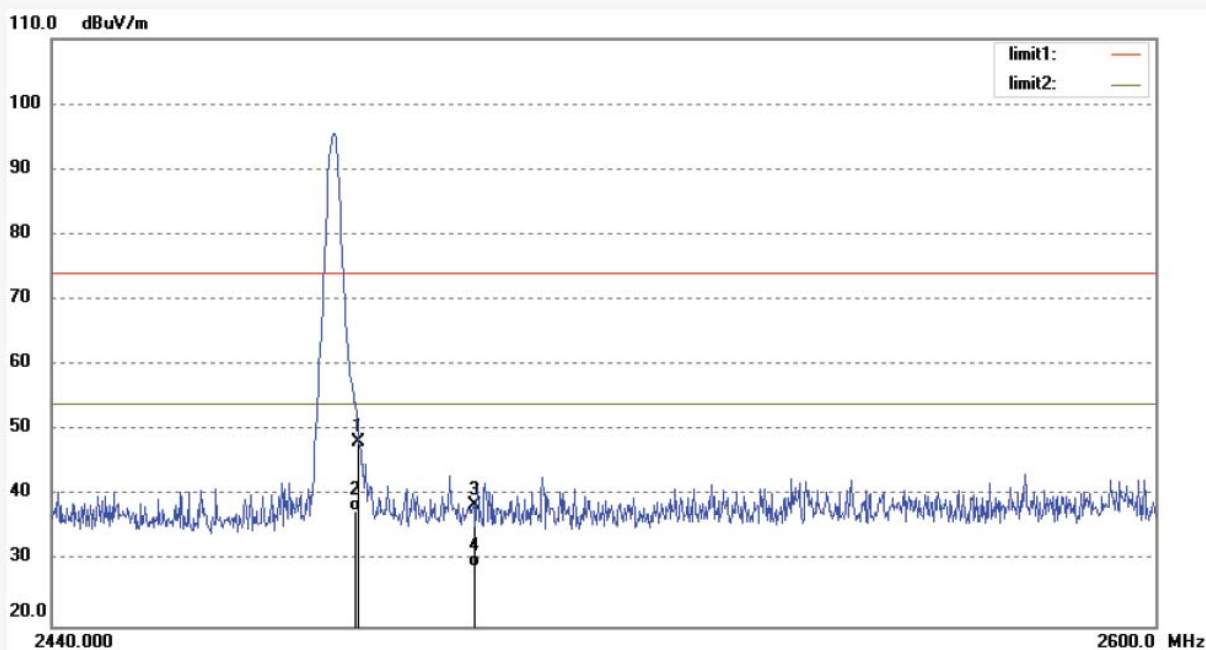
Date: 18/01/12/

Time: 9/51/49

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 53.77            | -5.51       | 48.26           | 74.00          | -25.74      | peak     | 150         | 163           |        |
| 2   | 2483.500    | 43.26            | -5.51       | 37.75           | 54.00          | -16.25      | AVG      | 150         | 163           |        |
| 3   | 2500.000    | 44.15            | -5.50       | 38.65           | 74.00          | -35.35      | peak     | 150         | 115           |        |
| 4   | 2500.000    | 34.67            | -5.50       | 29.17           | 54.00          | -24.83      | AVG      | 150         | 115           |        |

Note: Average measurement with peak detection at No.2&4



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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.: JC #69

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2402MHz(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

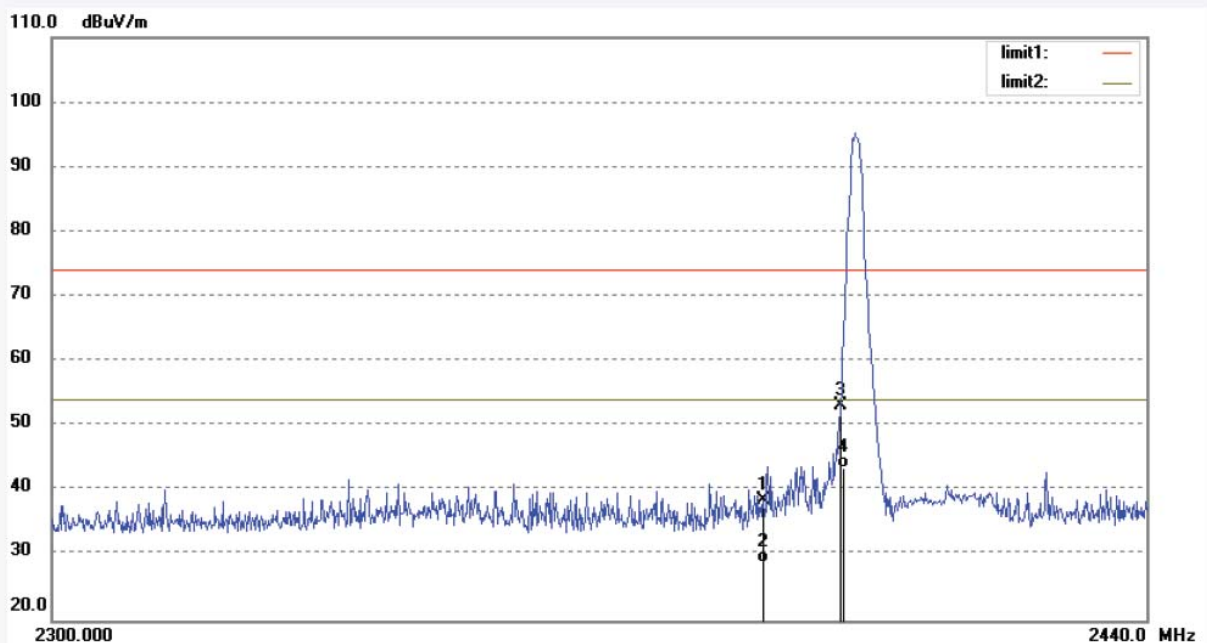
Date: 18/01/12/

Time: 9/55/07

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 44.53            | -5.89       | 38.64           | 74.00          | -35.36      | peak     | 150         | 125           |        |
| 2   | 2390.000    | 34.78            | -5.89       | 28.89           | 54.00          | -25.11      | AVG      | 150         | 125           |        |
| 3   | 2400.000    | 59.06            | -5.80       | 53.26           | 74.00          | -20.74      | peak     | 150         | 246           |        |
| 4   | 2400.000    | 49.33            | -5.80       | 43.53           | 54.00          | -10.47      | AVG      | 150         | 246           |        |

Note: Average measurement with peak detection at No.2&4



## ACCURATE TECHNOLOGY CO., LTD.

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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.: JC #70

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2402MHz(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

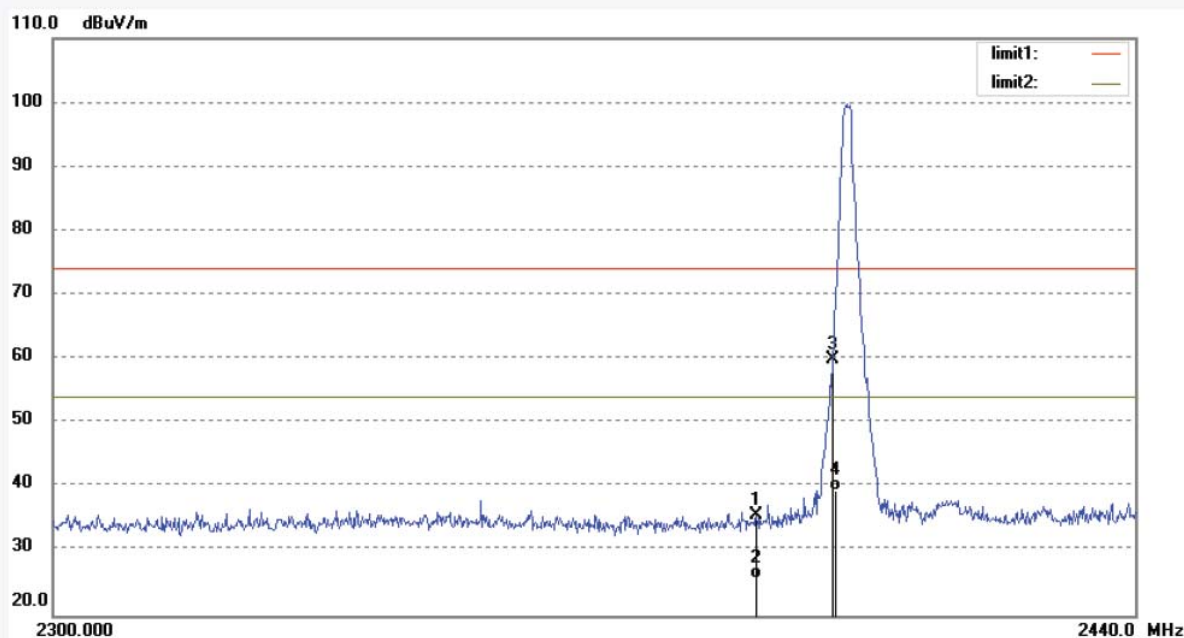
Date: 18/01/12/

Time: 9/57/00

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 41.44            | -5.89       | 35.55           | 74.00          | -38.45      | peak     | 150         | 106           |        |
| 2   | 2390.000    | 31.58            | -5.89       | 25.69           | 54.00          | -28.31      | AVG      | 150         | 106           |        |
| 3   | 2400.000    | 65.72            | -5.80       | 59.92           | 74.00          | -14.08      | peak     | 150         | 134           |        |
| 4   | 2400.000    | 45.21            | -5.80       | 39.41           | 54.00          | -14.59      | AVG      | 150         | 134           |        |

Note: Average measurement with peak detection at No.2&4





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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.: JC #71

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

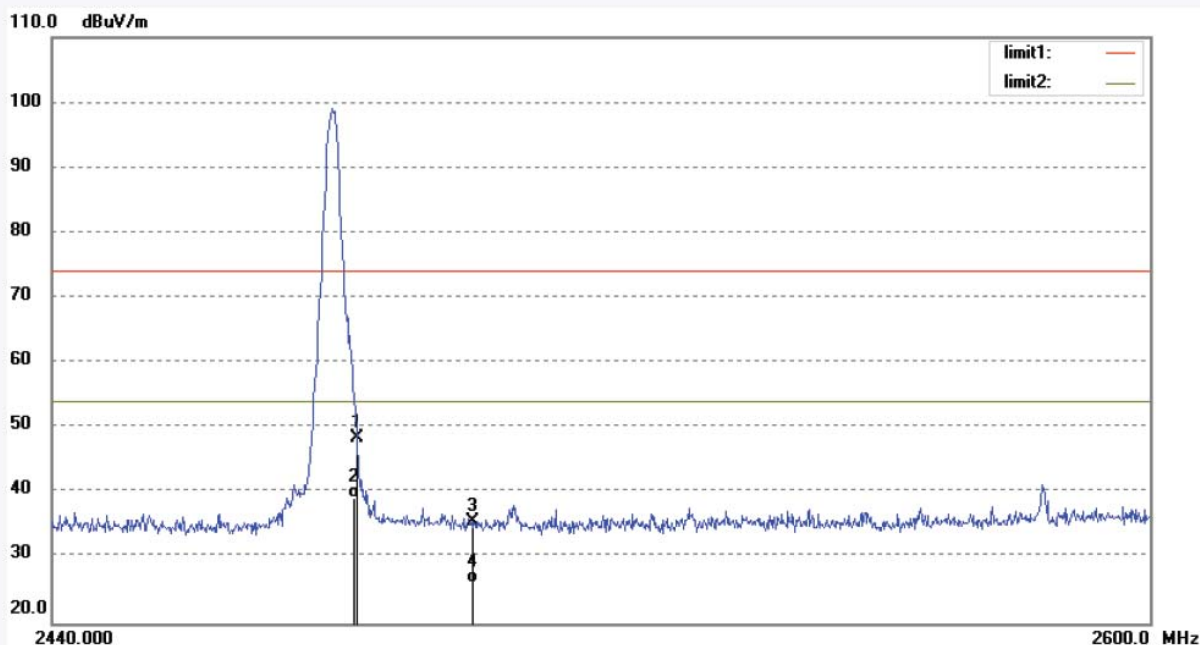
Date: 18/01/12/

Time: 9/59/51

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 54.06            | -5.51       | 48.55           | 74.00          | -25.45      | peak     | 150         | 222           |        |
| 2   | 2483.500    | 44.71            | -5.51       | 39.20           | 54.00          | -14.80      | AVG      | 150         | 222           |        |
| 3   | 2500.000    | 41.06            | -5.50       | 35.56           | 74.00          | -38.44      | peak     | 150         | 34            |        |
| 4   | 2500.000    | 31.69            | -5.50       | 26.19           | 54.00          | -27.81      | AVG      | 150         | 34            |        |

Note: Average measurement with peak detection at No.2&4





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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #72

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: TX 2480MHz(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

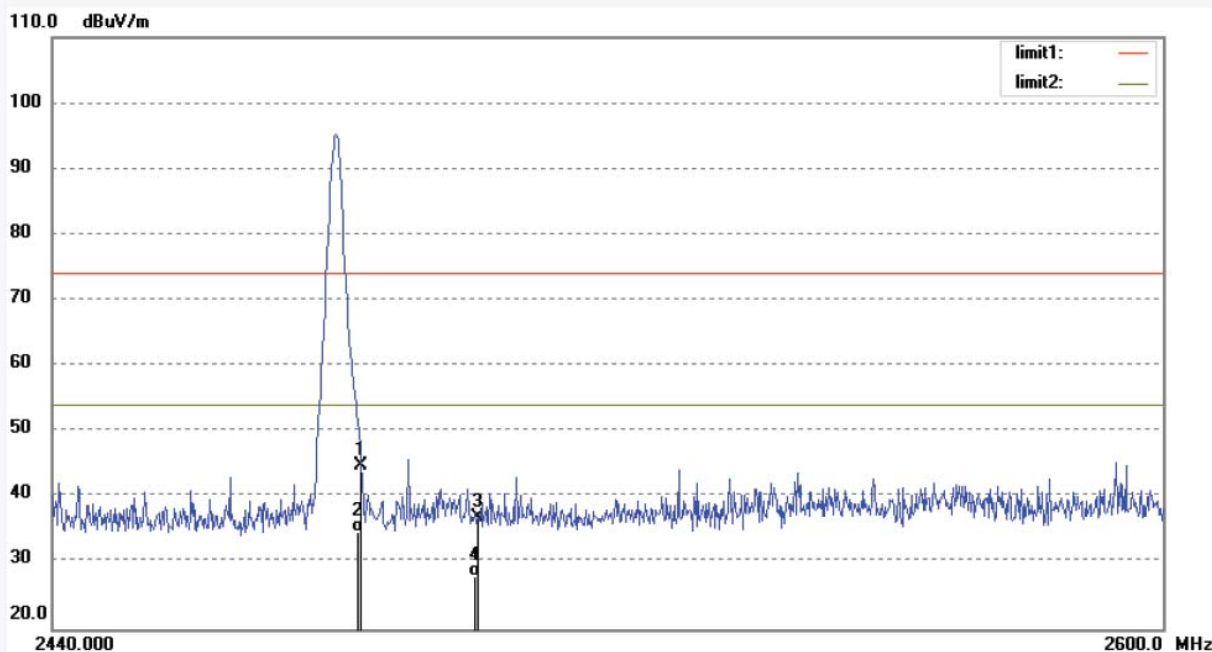
Date: 18/01/12/

Time: 10/02/08

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 50.31            | -5.51       | 44.80           | 74.00          | -29.20      | peak     | 150         | 254           |        |
| 2   | 2483.500    | 40.25            | -5.51       | 34.74           | 54.00          | -19.26      | AVG      | 150         | 254           |        |
| 3   | 2500.000    | 42.58            | -5.50       | 37.08           | 74.00          | -36.92      | peak     | 150         | 126           |        |
| 4   | 2500.000    | 33.48            | -5.50       | 27.98           | 54.00          | -26.02      | AVG      | 150         | 126           |        |

Note: Average measurement with peak detection at No.2&4

## Hopping mode



### ACCURATE TECHNOLOGY CO., LTD.

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.: JC #73

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

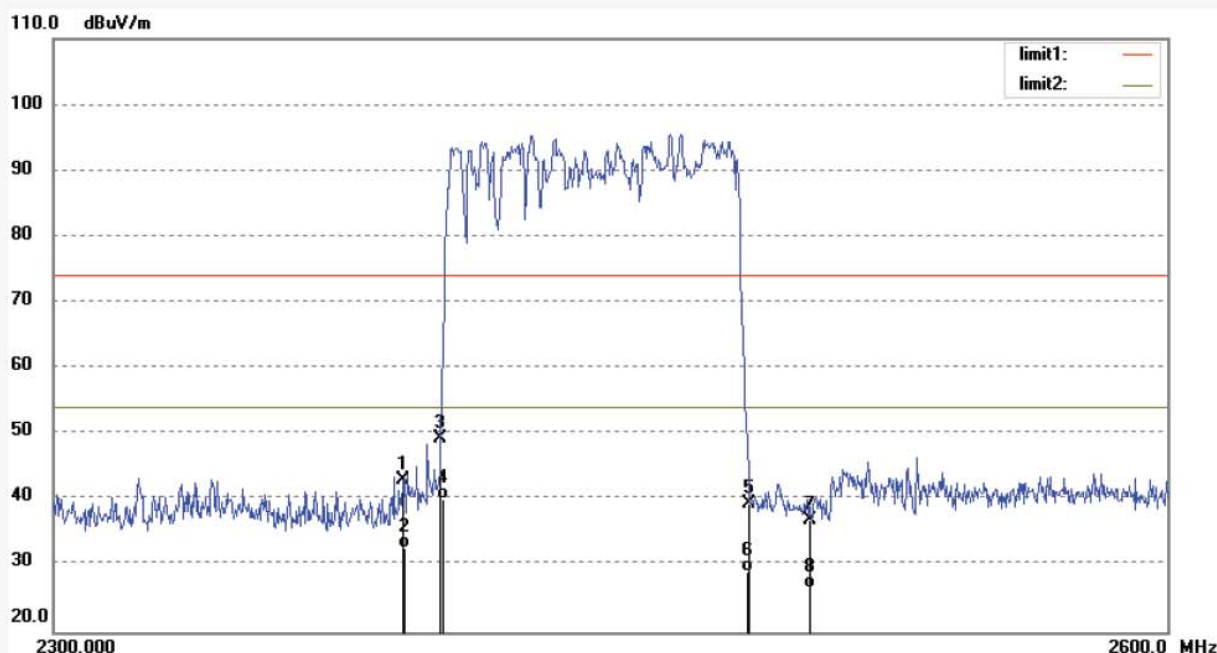
Date: 18/01/12/

Time: 10/09/04

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 48.95            | -5.89       | 43.06           | 74.00          | -30.94      | peak     | 150         | 121           |        |
| 2   | 2390.000    | 38.64            | -5.89       | 32.75           | 54.00          | -21.25      | AVG      | 150         | 121           |        |
| 3   | 2400.000    | 55.07            | -5.80       | 49.27           | 74.00          | -24.73      | peak     | 150         | 264           |        |
| 4   | 2400.000    | 45.85            | -5.80       | 40.05           | 54.00          | -13.95      | AVG      | 150         | 264           |        |
| 5   | 2483.500    | 44.96            | -5.51       | 39.45           | 74.00          | -34.55      | peak     | 150         | 114           |        |
| 6   | 2483.500    | 34.57            | -5.51       | 29.06           | 54.00          | -24.94      | AVG      | 150         | 114           |        |
| 7   | 2500.000    | 42.46            | -5.50       | 36.96           | 74.00          | -37.04      | peak     | 150         | 331           |        |
| 8   | 2500.000    | 32.18            | -5.50       | 26.68           | 54.00          | -27.32      | AVG      | 150         | 331           |        |

Note: Average measurement with peak detection at No.2&4&6&8



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #74

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

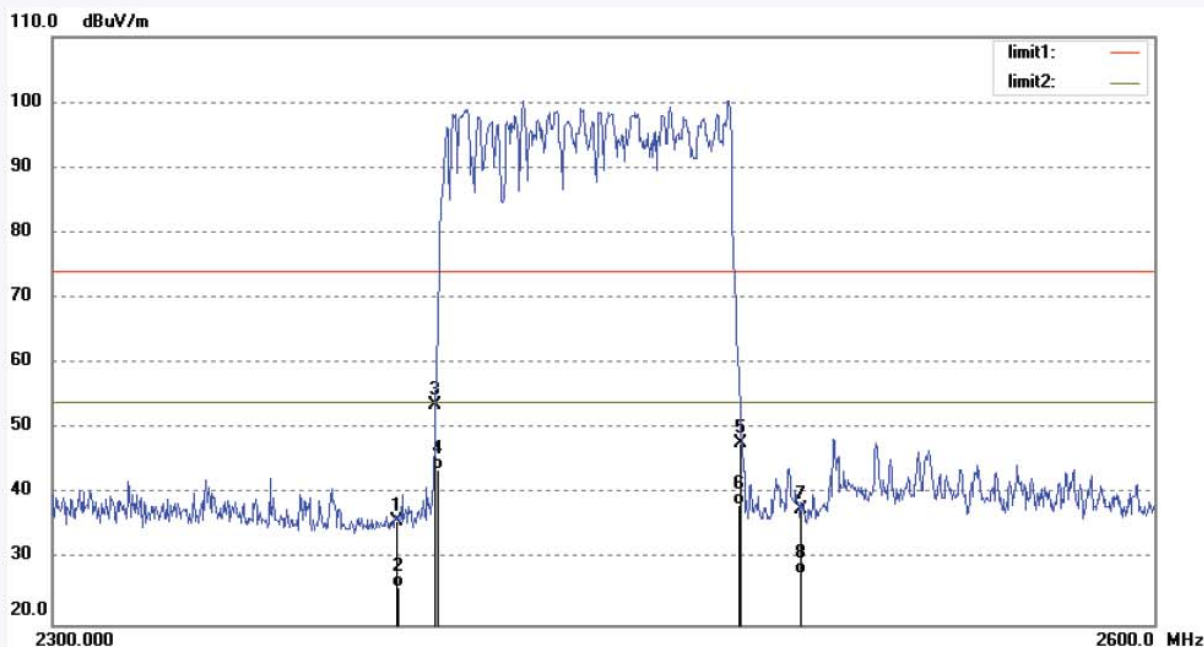
Date: 18/01/12/

Time: 10/15/13

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 41.75            | -5.89       | 35.86           | 74.00          | -38.14      | peak     | 150         | 10            |        |
| 2   | 2390.000    | 31.59            | -5.89       | 25.70           | 54.00          | -28.30      | AVG      | 150         | 10            |        |
| 3   | 2400.000    | 59.44            | -5.80       | 53.64           | 74.00          | -20.36      | peak     | 150         | 36            |        |
| 4   | 2400.000    | 49.61            | -5.80       | 43.81           | 54.00          | -10.19      | AVG      | 150         | 36            |        |
| 5   | 2483.500    | 53.29            | -5.51       | 47.78           | 74.00          | -26.22      | peak     | 150         | 111           |        |
| 6   | 2483.500    | 43.87            | -5.51       | 38.36           | 54.00          | -15.64      | AVG      | 150         | 111           |        |
| 7   | 2500.000    | 43.23            | -5.50       | 37.73           | 74.00          | -36.27      | peak     | 150         | 36            |        |
| 8   | 2500.000    | 33.26            | -5.50       | 27.76           | 54.00          | -26.24      | AVG      | 150         | 36            |        |

Note: Average measurement with peak detection at No.2&4&6&8





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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #75

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

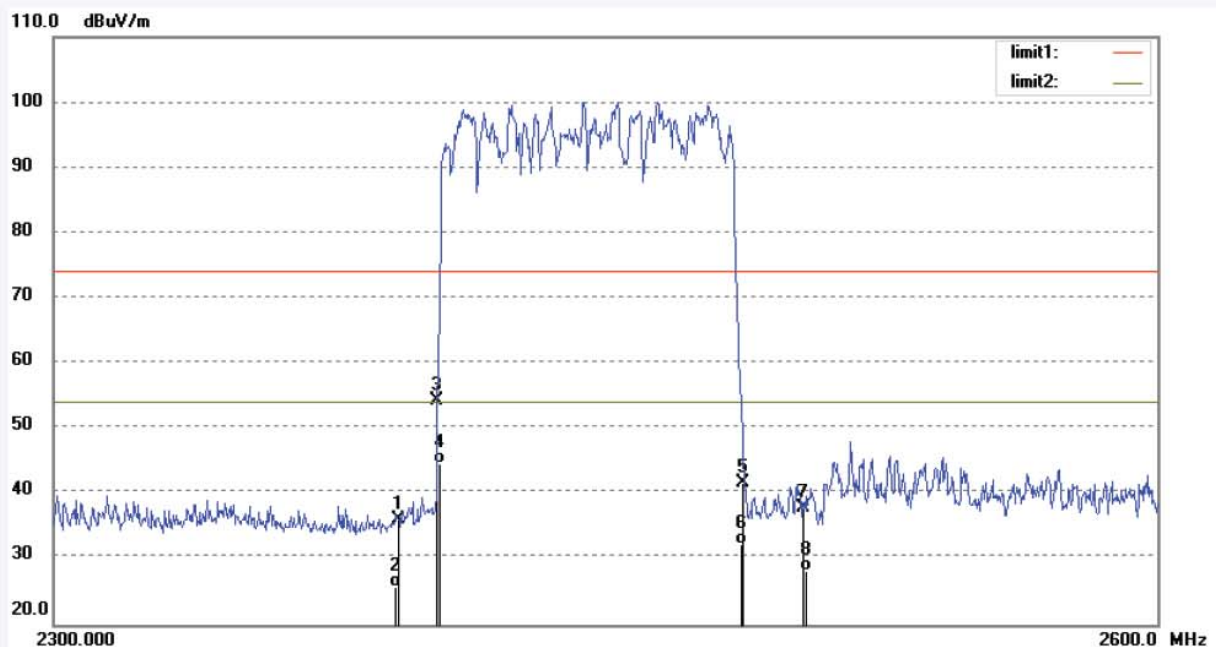
Date: 18/01/12/

Time: 10/20/23

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 41.94            | -5.89       | 36.05           | 74.00          | -37.95      | peak     | 150         | 102           |        |
| 2   | 2390.000    | 31.59            | -5.89       | 25.70           | 54.00          | -28.30      | AVG      | 150         | 102           |        |
| 3   | 2400.000    | 60.15            | -5.80       | 54.35           | 74.00          | -19.65      | peak     | 150         | 111           |        |
| 4   | 2400.000    | 50.43            | -5.80       | 44.63           | 54.00          | -9.37       | AVG      | 150         | 111           |        |
| 5   | 2483.500    | 47.27            | -5.51       | 41.76           | 74.00          | -32.24      | peak     | 150         | 146           |        |
| 6   | 2483.500    | 37.84            | -5.51       | 32.33           | 54.00          | -21.67      | AVG      | 150         | 146           |        |
| 7   | 2500.000    | 43.47            | -5.50       | 37.97           | 74.00          | -36.03      | peak     | 150         | 132           |        |
| 8   | 2500.000    | 33.68            | -5.50       | 28.18           | 54.00          | -25.82      | AVG      | 150         | 132           |        |

Note: Average measurement with peak detection at No.2&4&6&8



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #76

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG( $\pi/4$  DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

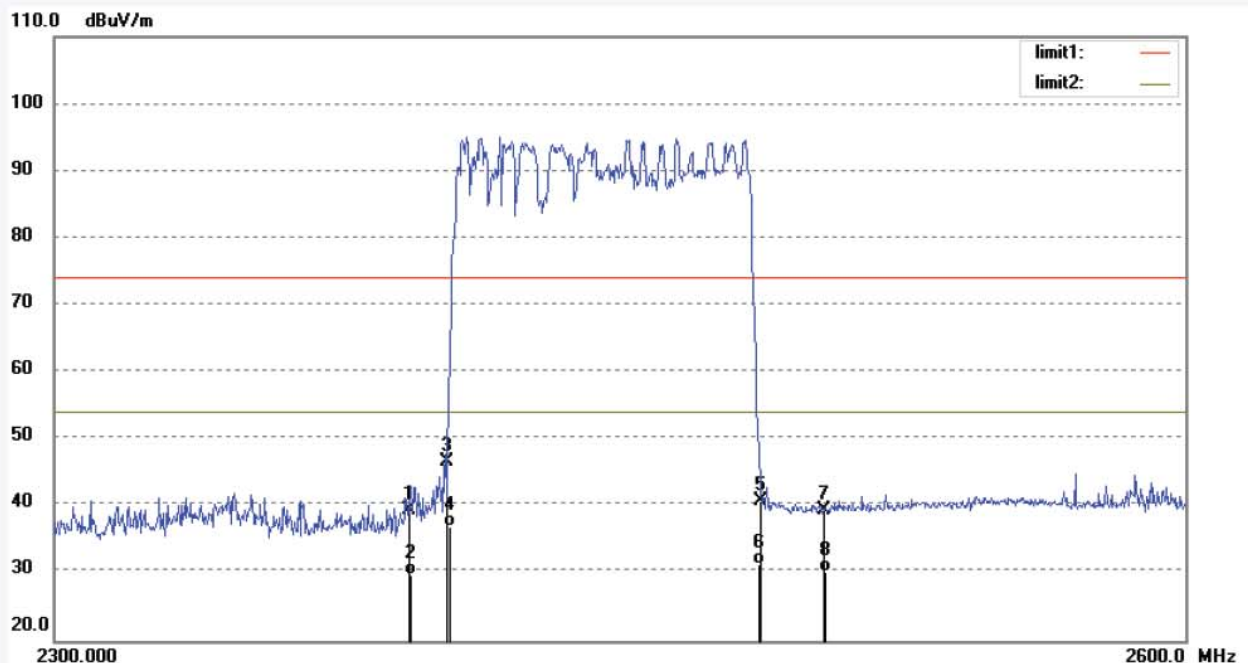
Date: 18/01/12/

Time: 10/26/51

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 45.26            | -5.89       | 39.37           | 74.00          | -34.63      | peak     | 150         | 25            |        |
| 2   | 2390.000    | 35.62            | -5.89       | 29.73           | 54.00          | -24.27      | AVG      | 150         | 25            |        |
| 3   | 2400.000    | 52.57            | -5.80       | 46.77           | 74.00          | -27.23      | peak     | 150         | 34            |        |
| 4   | 2400.000    | 42.68            | -5.80       | 36.88           | 54.00          | -17.12      | AVG      | 150         | 34            |        |
| 5   | 2483.500    | 46.31            | -5.51       | 40.80           | 74.00          | -33.20      | peak     | 150         | 111           |        |
| 6   | 2483.500    | 36.94            | -5.51       | 31.43           | 54.00          | -22.57      | AVG      | 150         | 111           |        |
| 7   | 2500.000    | 45.03            | -5.50       | 39.53           | 74.00          | -34.47      | peak     | 150         | 332           |        |
| 8   | 2500.000    | 35.66            | -5.50       | 30.16           | 54.00          | -23.84      | AVG      | 150         | 332           |        |

Note: Average measurement with peak detection at No.2&4&6&8





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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #77

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Vertical

Power Source: AC 120V/60Hz

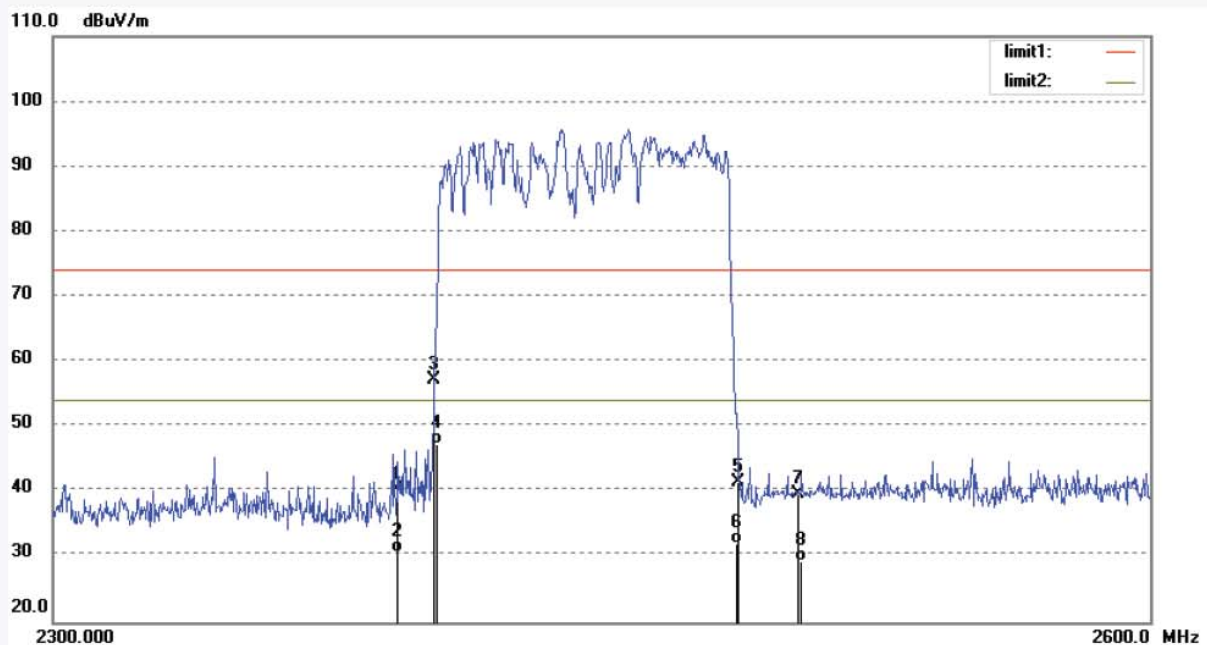
Date: 18/01/12/

Time: 10/37/02

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 46.33            | -5.89       | 40.44           | 74.00          | -33.56      | peak     | 150         | 241           |        |
| 2   | 2390.000    | 36.57            | -5.89       | 30.68           | 54.00          | -23.32      | AVG      | 150         | 241           |        |
| 3   | 2400.000    | 63.11            | -5.80       | 57.31           | 74.00          | -16.69      | peak     | 150         | 311           |        |
| 4   | 2400.000    | 53.11            | -5.80       | 47.31           | 54.00          | -6.69       | AVG      | 150         | 311           |        |
| 5   | 2483.500    | 47.01            | -5.51       | 41.50           | 74.00          | -32.50      | peak     | 150         | 146           |        |
| 6   | 2483.500    | 37.59            | -5.51       | 32.08           | 54.00          | -21.92      | AVG      | 150         | 146           |        |
| 7   | 2500.000    | 45.26            | -5.50       | 39.76           | 74.00          | -34.24      | peak     | 150         | 164           |        |
| 8   | 2500.000    | 34.87            | -5.50       | 29.37           | 54.00          | -24.63      | AVG      | 150         | 164           |        |

Note: Average measurement with peak detection at No.2&4&6&8



## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: JC #78

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable

Mode: HOPPONG(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Polarization: Horizontal

Power Source: AC 120V/60Hz

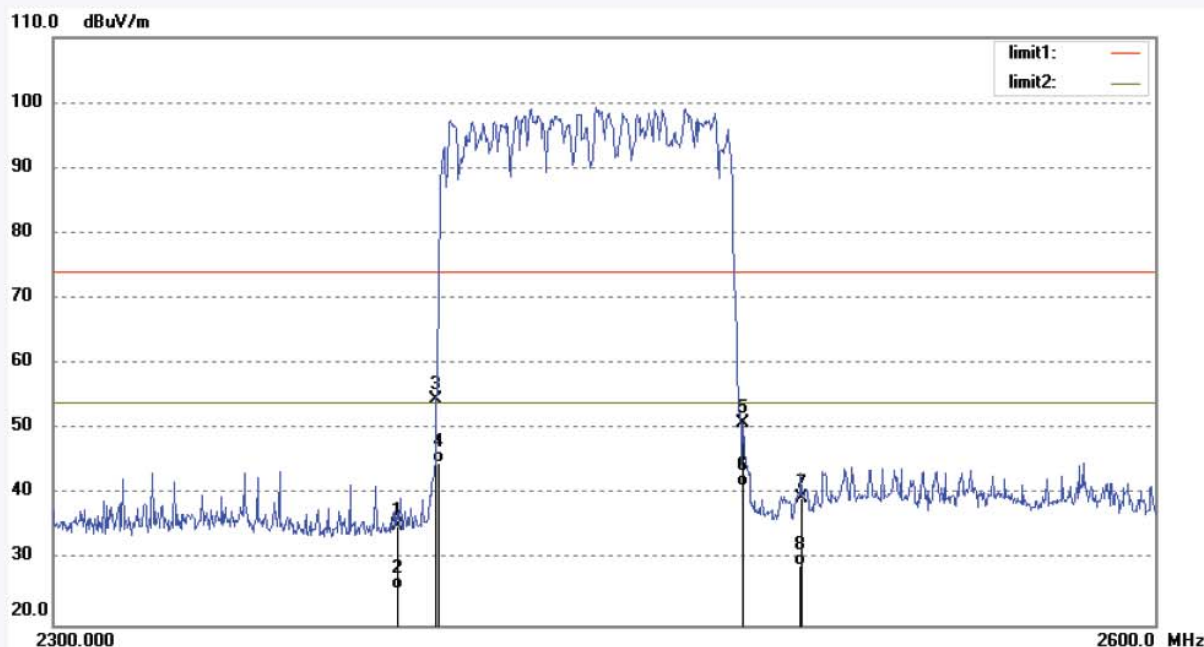
Date: 18/01/12/

Time: 10/41/15

Engineer Signature: JAMES

Distance: 3m

Note: Report NO.:ATE20172608



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2390.000    | 41.10            | -5.89       | 35.21           | 74.00          | -38.79      | peak     | 150         | 113           |        |
| 2   | 2390.000    | 31.42            | -5.89       | 25.53           | 54.00          | -28.47      | AVG      | 150         | 113           |        |
| 3   | 2400.000    | 60.32            | -5.80       | 54.52           | 74.00          | -19.48      | peak     | 150         | 36            |        |
| 4   | 2400.000    | 50.68            | -5.80       | 44.88           | 54.00          | -9.12       | AVG      | 150         | 36            |        |
| 5   | 2483.500    | 56.50            | -5.51       | 50.99           | 74.00          | -23.01      | peak     | 150         | 120           |        |
| 6   | 2483.500    | 46.77            | -5.51       | 41.26           | 54.00          | -12.74      | AVG      | 150         | 120           |        |
| 7   | 2500.000    | 44.94            | -5.50       | 39.44           | 74.00          | -34.56      | peak     | 150         | 46            |        |
| 8   | 2500.000    | 34.51            | -5.50       | 29.01           | 54.00          | -24.99      | AVG      | 150         | 46            |        |

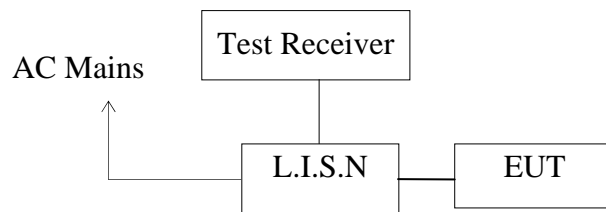
Note: Average measurement with peak detection at No.2&4&6&8

## 12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

### 15 SECTION 15.207(A)

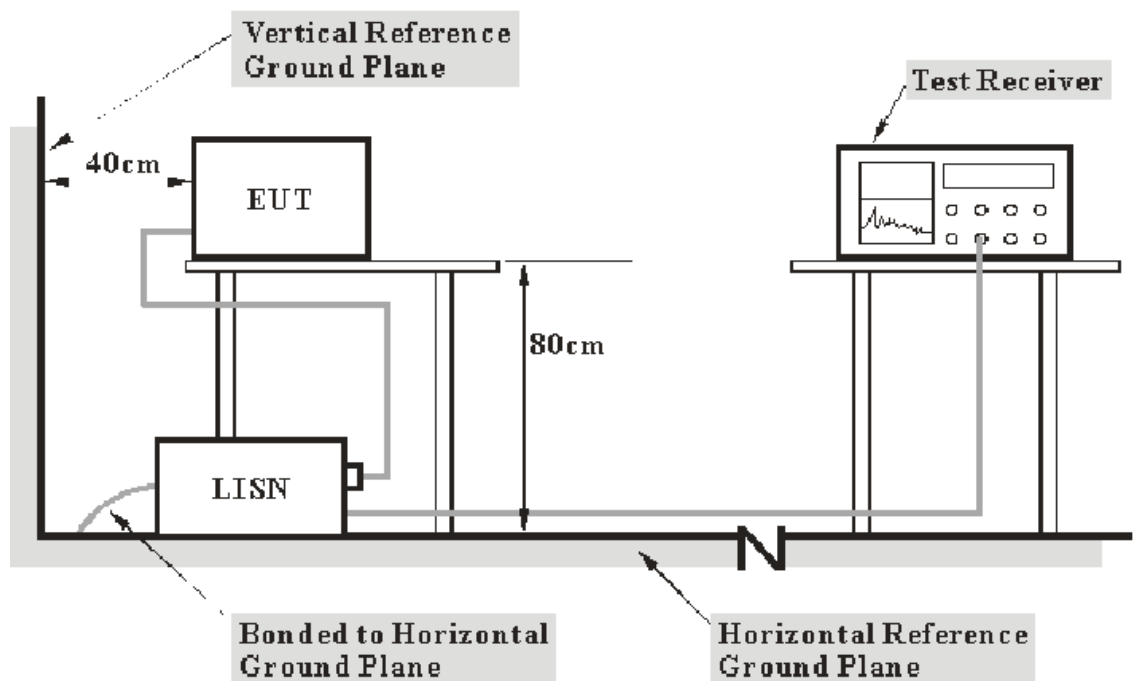
#### 12.1.Block Diagram of Test Setup

##### 12.1.1.Block diagram of connection between the EUT and simulators



(EUT: Otto Turntable)

##### 12.1.2.Test System Setup



- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

## 12.2.Power Line Conducted Emission Measurement Limits

| Frequency<br>(MHz)   | Limit dB( $\mu$ 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          |
| NOTE1: The lower limit shall apply at the transition frequencies.  |                    |               |
| NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz. |                    |               |

## 12.3.Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

## 12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 12.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in test mode and measure it.

## 12.5.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 C63.10: 2013 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.

## 12.6.Data Sample

| Frequency<br>(MHz) | Transducer<br>value<br>(dB) | QuasiPeak<br>Level<br>(dBμV) | Average<br>Level<br>(dBμV) | QuasiPeak<br>Limit<br>(dBμV) | Average<br>Limit<br>(dBμV) | QuasiPeak<br>Margin<br>(dB) | Average<br>Margin<br>(dB) | Remark<br>(Pass/Fail) |
|--------------------|-----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|-----------------------|
| 10.51000           | 11.6                        | 42.60                        | 27.90                      | 60.0                         | 50.0                       | -17.4                       | -22.1                     | Pass                  |

Frequency(MHz) = Emission frequency in MHz

Transducer value(dB) = Insertion loss of LISN + Cable Loss

Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value

Limit (dBμV) = Limit stated in standard

Margin = Limit (dBμV) - Level (dBμV)

Calculation Formula:

Margin = Limit (dBμV) - Level (dBμV)



## 12.7. Power Line Conducted Emission Measurement Results

### PASS.

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

|  |               |              |               |              |          |      |     |  |
|--|---------------|--------------|---------------|--------------|----------|------|-----|--|
| Test mode : BT communicating (AC 120V/60Hz)  |               |              |               |              |          |      |     |  |
| EUT mode : CR6033A-GY                        |               |              |               |              |          |      |     |  |
| <b>MEASUREMENT RESULT: "HP-2608-01_fin"</b>  |               |              |               |              |          |      |     |  |
| 2018-1-2 16:42                               |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.348000                                     | 42.10         | 10.9         | 59            | 16.9         | QP       | L1   | GND |  |
| 0.870000                                     | 35.40         | 11.1         | 56            | 20.6         | QP       | L1   | GND |  |
| 2.076000                                     | 27.80         | 11.3         | 56            | 28.2         | QP       | L1   | GND |  |
| 5.766000                                     | 19.40         | 11.5         | 60            | 40.6         | QP       | L1   | GND |  |
| 20.161500                                    | 10.70         | 11.7         | 60            | 49.3         | QP       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "HP-2608-01_fin2"</b> |               |              |               |              |          |      |     |  |
| 2018-1-2 16:42                               |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.289500                                     | 26.60         | 10.9         | 51            | 23.9         | AV       | L1   | GND |  |
| 0.775500                                     | 31.60         | 11.1         | 46            | 14.4         | AV       | L1   | GND |  |
| 1.207500                                     | 26.90         | 11.2         | 46            | 19.1         | AV       | L1   | GND |  |
| 2.053500                                     | 22.60         | 11.3         | 46            | 23.4         | AV       | L1   | GND |  |
| 6.180000                                     | 14.00         | 11.5         | 50            | 36.0         | AV       | L1   | GND |  |
| 24.000000                                    | 9.30          | 11.7         | 50            | 40.7         | AV       | L1   | GND |  |
| <b>MEASUREMENT RESULT: "HP-2608-02_fin"</b>  |               |              |               |              |          |      |     |  |
| 2018-1-2 16:47                               |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.231000                                     | 44.70         | 10.9         | 62            | 17.7         | QP       | N    | GND |  |
| 0.402000                                     | 37.80         | 11.0         | 58            | 20.0         | QP       | N    | GND |  |
| 0.906000                                     | 33.30         | 11.1         | 56            | 22.7         | QP       | N    | GND |  |
| 2.427000                                     | 25.60         | 11.3         | 56            | 30.4         | QP       | N    | GND |  |
| 6.135000                                     | 19.50         | 11.5         | 60            | 40.5         | QP       | N    | GND |  |
| 28.810500                                    | 11.20         | 11.8         | 60            | 48.8         | QP       | N    | GND |  |
| <b>MEASUREMENT RESULT: "HP-2608-02_fin2"</b> |               |              |               |              |          |      |     |  |
| 2018-1-2 16:47                               |               |              |               |              |          |      |     |  |
| Frequency<br>MHz                             | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |  |
| 0.321000                                     | 25.70         | 10.9         | 50            | 24.0         | AV       | N    | GND |  |
| 0.775500                                     | 31.60         | 11.1         | 46            | 14.4         | AV       | N    | GND |  |
| 1.383000                                     | 26.00         | 11.2         | 46            | 20.0         | AV       | N    | GND |  |
| 2.040000                                     | 22.90         | 11.3         | 46            | 23.1         | AV       | N    | GND |  |
| 5.275500                                     | 14.20         | 11.4         | 50            | 35.8         | AV       | N    | GND |  |
| 24.000000                                    | 10.70         | 11.7         | 50            | 39.3         | AV       | N    | GND |  |

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

The spectral diagrams are attached as below.

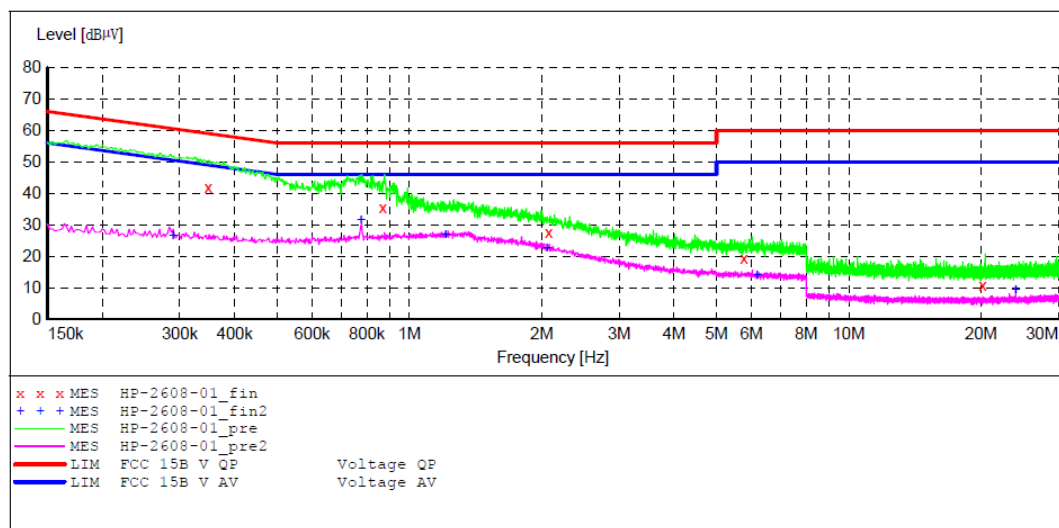
## ACCURATE TECHNOLOGY CO.,LTD

### CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Otto Turntable M/N:CR6033A-GY  
 Manufacturer: TIMSEN INTERNATIONAL LIMITED  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: JAMES  
 Test Specification: L 120V/60Hz  
 Comment: Report NO.:ATE20172608  
 Start of Test: 2018-1-2 / 16:39:11

### 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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



### MEASUREMENT RESULT: "HP-2608-01\_fin"

2018-1-2 16:42

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.348000         | 42.10         | 10.9         | 59            | 16.9         | QP       | L1   | GND |
| 0.870000         | 35.40         | 11.1         | 56            | 20.6         | QP       | L1   | GND |
| 2.076000         | 27.80         | 11.3         | 56            | 28.2         | QP       | L1   | GND |
| 5.766000         | 19.40         | 11.5         | 60            | 40.6         | QP       | L1   | GND |
| 20.161500        | 10.70         | 11.7         | 60            | 49.3         | QP       | L1   | GND |

### MEASUREMENT RESULT: "HP-2608-01\_fin2"

2018-1-2 16:42

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.289500         | 26.60         | 10.9         | 51            | 23.9         | AV       | L1   | GND |
| 0.775500         | 31.60         | 11.1         | 46            | 14.4         | AV       | L1   | GND |
| 1.207500         | 26.90         | 11.2         | 46            | 19.1         | AV       | L1   | GND |
| 2.053500         | 22.60         | 11.3         | 46            | 23.4         | AV       | L1   | GND |
| 6.180000         | 14.00         | 11.5         | 50            | 36.0         | AV       | L1   | GND |
| 24.000000        | 9.30          | 11.7         | 50            | 40.7         | AV       | L1   | GND |

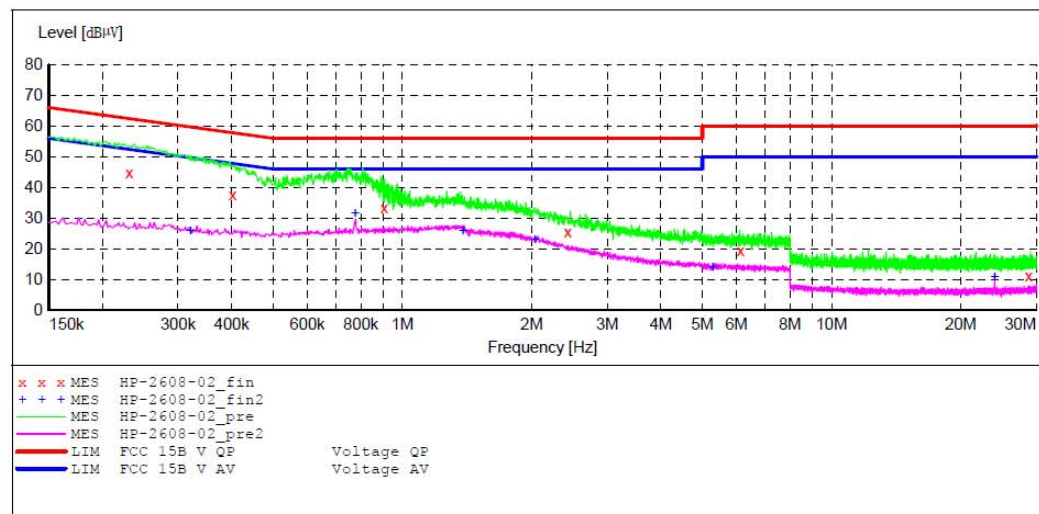
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Otto Turntable M/N:CR6033A-GY  
 Manufacturer: TIMSEN INTERNATIONAL LIMITED  
 Operating Condition: BT communicating  
 Test Site: 2#Shielding Room  
 Operator: JAMES  
 Test Specification: N 120V/60Hz  
 Comment: Report NO.:ATE20172608  
 Start of Test: 2018-1-2 / 16:43:20

### 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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



### MEASUREMENT RESULT: "HP-2608-02\_fin"

2018-1-2 16:47

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.231000         | 44.70         | 10.9         | 62            | 17.7         | QP       | N    | GND |
| 0.402000         | 37.80         | 11.0         | 58            | 20.0         | QP       | N    | GND |
| 0.906000         | 33.30         | 11.1         | 56            | 22.7         | QP       | N    | GND |
| 2.427000         | 25.60         | 11.3         | 56            | 30.4         | QP       | N    | GND |
| 6.135000         | 19.50         | 11.5         | 60            | 40.5         | QP       | N    | GND |
| 28.810500        | 11.20         | 11.8         | 60            | 48.8         | QP       | N    | GND |

### MEASUREMENT RESULT: "HP-2608-02\_fin2"

2018-1-2 16:47

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.321000         | 25.70         | 10.9         | 50            | 24.0         | AV       | N    | GND |
| 0.775500         | 31.60         | 11.1         | 46            | 14.4         | AV       | N    | GND |
| 1.383000         | 26.00         | 11.2         | 46            | 20.0         | AV       | N    | GND |
| 2.040000         | 22.90         | 11.3         | 46            | 23.1         | AV       | N    | GND |
| 5.275500         | 14.20         | 11.4         | 50            | 35.8         | AV       | N    | GND |
| 24.000000        | 10.70         | 11.7         | 50            | 39.3         | AV       | N    | GND |

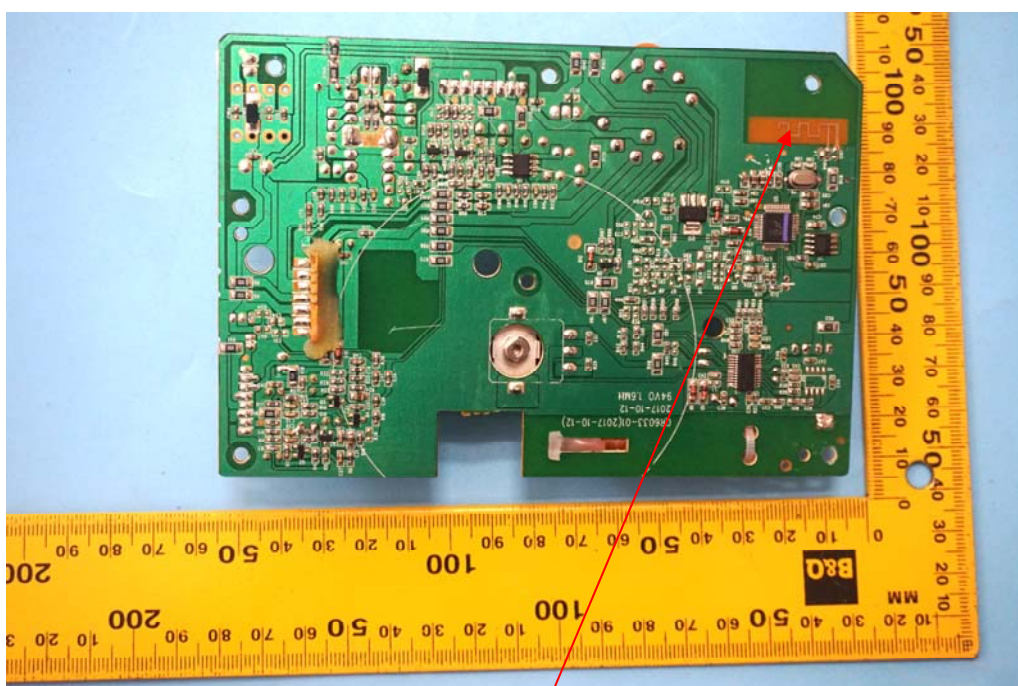
## 13.ANTENNA REQUIREMENT

### 13.1.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.

### 13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

\*\*\*\*\* End of Test Report \*\*\*\*\*