

APPLICATION FOR VERIFICATION
On Behalf of
Hornady Manufacturing Company

RAPiD Safe Gen II
Model No.:HOM001RL Full Size, HOM001RM Medium Size

FCC ID: 2AFJZ-HOM001RL

Prepared for : Hornady Manufacturing Company
Address : 3625 Old Potash Hwy Grand Island, NE 68803
United States
Prepared by : Accurate Technology Co., Ltd.
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Report No. : ATE20151711
Date of Test : Aug 1-14, 2015
Date of Report : Aug 17, 2015

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Test Report Declaration

Applicant& address : Hornady Manufacturing Company
3625 Old Potash Hwy Grand Island, NE 68803 United States

Manufacturer& address : Hornady Manufacturing Company
3625 Old Potash Hwy Grand Island, NE 68803 United States

Product : RAPiD Safe Gen II

Model No. : HOM001RL Full Size, HOM001RM Medium Size

Trade name : N/A


Measurement Procedure Used:


FCC Rules and Regulations Part 15 Subpart C 15.207&15.209 FCC/ANSI C63.10-2013

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 limits both radiated and conducted emissions. 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 : Aug 1-14, 2015
Date of Report : Aug 17, 2015

Prepared by : 
(Mark Chen, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15.207	Pass
Radiated Emission	FCC Part 15.209	Pass

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

The submitted sample is a RAPiD Safe Gen II. The sample is powered by AC 120V.

		RAPiD Safe Gen II
Frequency	:	125KHz
Number of Channels	:	1
Modulation Type	:	GFSK
Type of Antenna	:	Internal Antenna
Max antenna gain	:	3dBi
Power Supply	:	AC120V(Adapter)
Adapter	:	MODEL: PK1201000 INPUT:100-240V~50/60Hz 0.6A OUTPUT:12V/1A

2.2. Special Accessory and Auxiliary Equipment

N/A

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC
The Registration Number is 253065
Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-1
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&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2
Power disturbance expanded uncertainty : U=2.92dB, k=2
Radiated emission expanded uncertainty : U=3.08dB, k=2
(9kHz-30MHz)
Radiated emission expanded uncertainty : U=4.42dB, k=2
(30MHz-1000MHz)
Radiated emission expanded uncertainty : U=4.06dB, k=2
(Above 1GHz)

3. POWER LINE CONDUCTED MEASUREMENT

3.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2015	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan. 11, 2015	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan. 11, 2015	1 Year
4.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 3	Jan. 11, 2015	1 Year
Expanded Uncertainty: U= 2.23dB, k=2						

3.2. Power Line Conducted Emission Measurement Limits (Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15—0.50	66—56*	56—46*
0.50—5.00	56	46
5.00—30.0	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Power Line Conducted Emission Measurement Results

PASS.

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

Test mode : TX (120V/60HZ)

MEASUREMENT RESULT: "RY0814-1_fin"

8/14/2015 4:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	33.90	10.7	57	23.0	QP	L1	GND
2.600000	27.90	11.0	56	28.1	QP	L1	GND
12.115000	37.00	11.3	60	23.0	QP	L1	GND

MEASUREMENT RESULT: "RY0814-1_fin2"

8/14/2015 4:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	26.40	10.7	47	20.5	AV	L1	GND
1.360000	25.10	10.9	46	20.9	AV	L1	GND
12.115000	30.20	11.3	50	19.8	AV	L1	GND

MEASUREMENT RESULT: "RY0814-2_fin"

8/14/2015 4:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	33.50	10.7	57	23.4	QP	N	GND
1.730000	27.60	10.9	56	28.4	QP	N	GND
10.885000	29.30	11.3	60	30.7	QP	N	GND

MEASUREMENT RESULT: "RY0814-2_fin2"

8/14/2015 4:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	20.30	10.7	47	26.6	AV	N	GND
2.720000	22.30	11.0	46	23.7	AV	N	GND
10.885000	21.30	11.3	50	28.7	AV	N	GND

Test mode : TX (240V/60HZ)

MEASUREMENT RESULT: "RY0818-1_fin"

8/18/2015 9:36AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.180000	43.50	10.5	65	21.0	QP	L1	GND
3.770000	36.20	11.1	56	19.8	QP	L1	GND
26.395000	29.60	11.5	60	30.4	QP	L1	GND

MEASUREMENT RESULT: "RY0818-1_fin2"

8/18/2015 9:36AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	L1	GND
3.800000	23.00	11.1	46	23.0	AV	L1	GND
6.490000	18.50	11.2	50	31.5	AV	L1	GND

MEASUREMENT RESULT: "RY0818-2_fin"

8/18/2015 9:40AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	43.90	10.5	66	22.1	QP	N	GND
3.710000	35.20	11.1	56	20.8	QP	N	GND
6.920000	29.10	11.2	60	30.9	QP	N	GND

MEASUREMENT RESULT: "RY0818-2_fin2"

8/18/2015 9:40AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	N	GND
3.700000	23.30	11.1	46	22.7	AV	N	GND
6.680000	18.70	11.2	50	31.3	AV	N	GND

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

The spectral diagrams are attached as below.

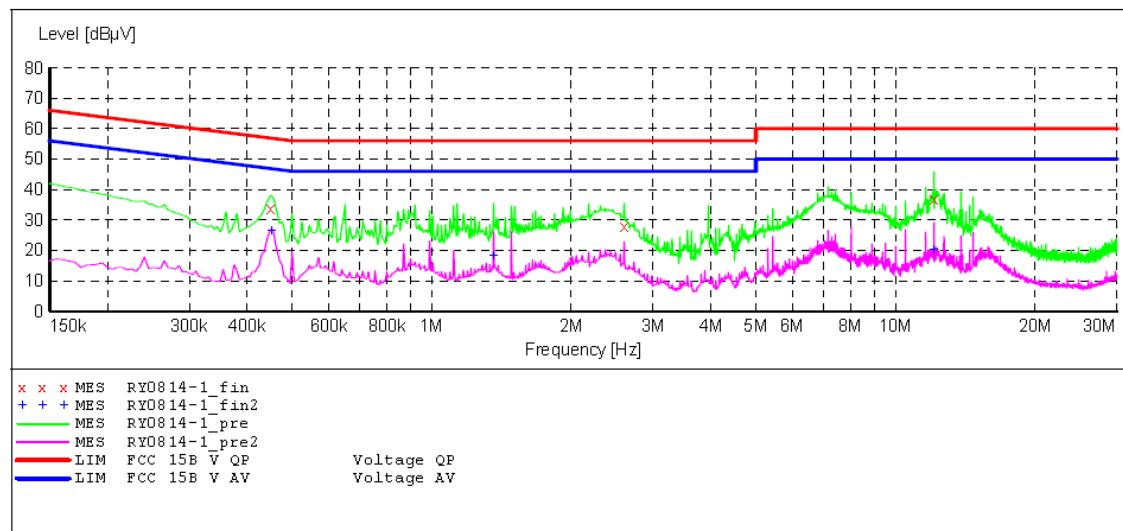
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: RAPiD Safe Gen II M/N:HOM001RL Full Size
 Manufacturer: Hornady
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20151711
 Start of Test: 8/14/2015 / 3:59:34PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY0814-1_fin"

8/14/2015 4:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	33.90	10.7	57	23.0	QP	L1	GND
2.600000	27.90	11.0	56	28.1	QP	L1	GND
12.115000	37.00	11.3	60	23.0	QP	L1	GND

MEASUREMENT RESULT: "RY0814-1_fin2"

8/14/2015 4:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	26.40	10.7	47	20.5	AV	L1	GND
1.360000	25.10	10.9	46	20.9	AV	L1	GND
12.115000	30.20	11.3	50	19.8	AV	L1	GND

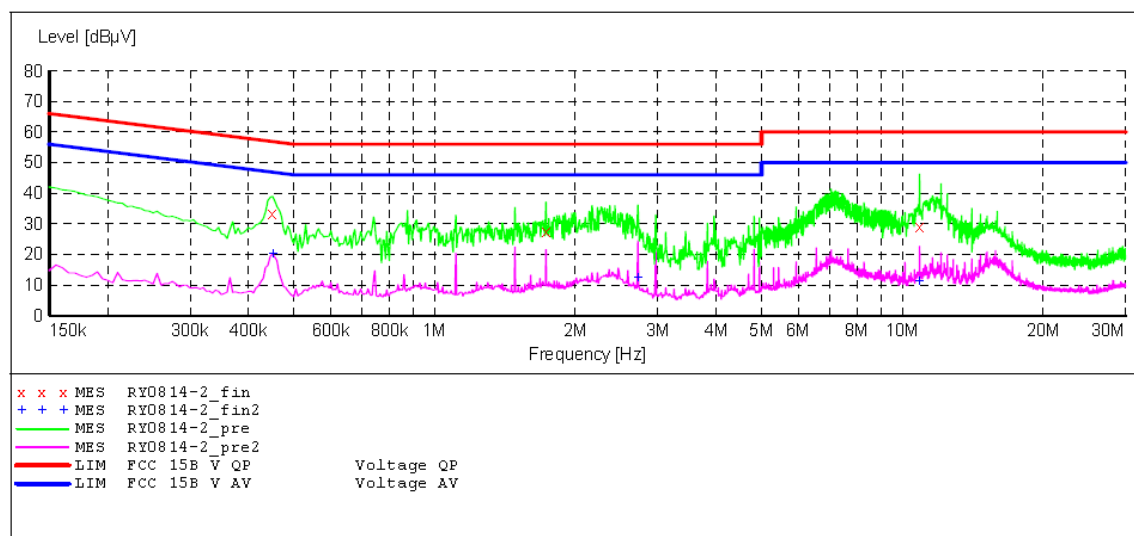
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: RAPiD Safe Gen II M/N:HOM001RL Full Size
 Manufacturer: Hornady
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20151711
 Start of Test: 8/14/2015 / 4:04:57PM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY0814-2_fin"

8/14/2015 4:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	33.50	10.7	57	23.4	QP	N	GND
1.730000	27.60	10.9	56	28.4	QP	N	GND
10.885000	29.30	11.3	60	30.7	QP	N	GND

MEASUREMENT RESULT: "RY0814-2_fin2"

8/14/2015 4:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.450000	20.30	10.7	47	26.6	AV	N	GND
2.720000	22.30	11.0	46	23.7	AV	N	GND
10.885000	21.30	11.3	50	28.7	AV	N	GND

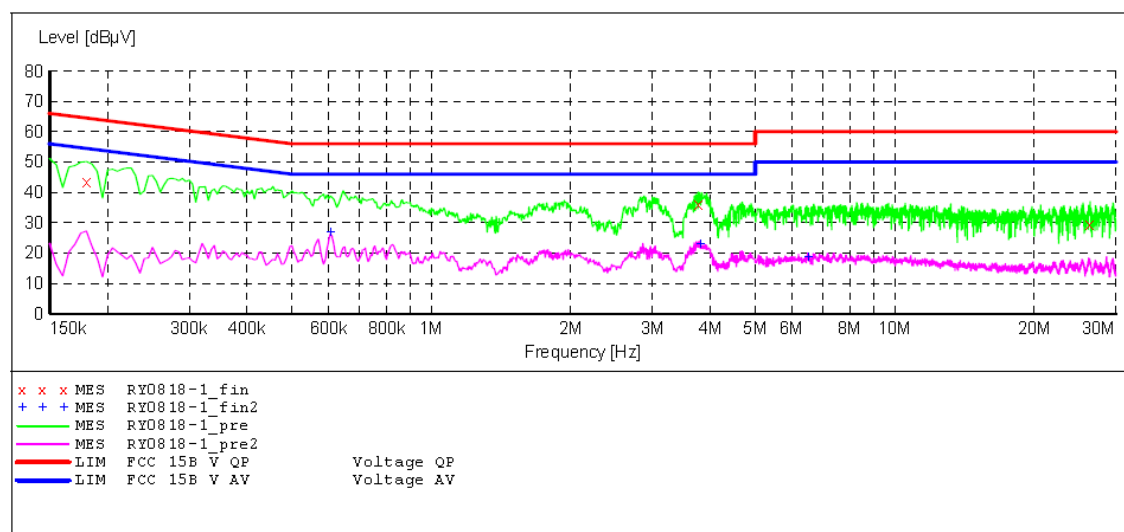
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: RAPiD Safe Gen II M/N:HOM001RL Full Size
 Manufacturer: Hornady
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 240V/60Hz
 Comment: Report No.:ATE20151711
 Start of Test: 8/18/2015 / 9:33:49AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 Average
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY0818-1_fin"

8/18/2015 9:36AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.180000	43.50	10.5	65	21.0	QP	L1	GND
3.770000	36.20	11.1	56	19.8	QP	L1	GND
26.395000	29.60	11.5	60	30.4	QP	L1	GND

MEASUREMENT RESULT: "RY0818-1_fin2"

8/18/2015 9:36AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	L1	GND
3.800000	23.00	11.1	46	23.0	AV	L1	GND
6.490000	18.50	11.2	50	31.5	AV	L1	GND

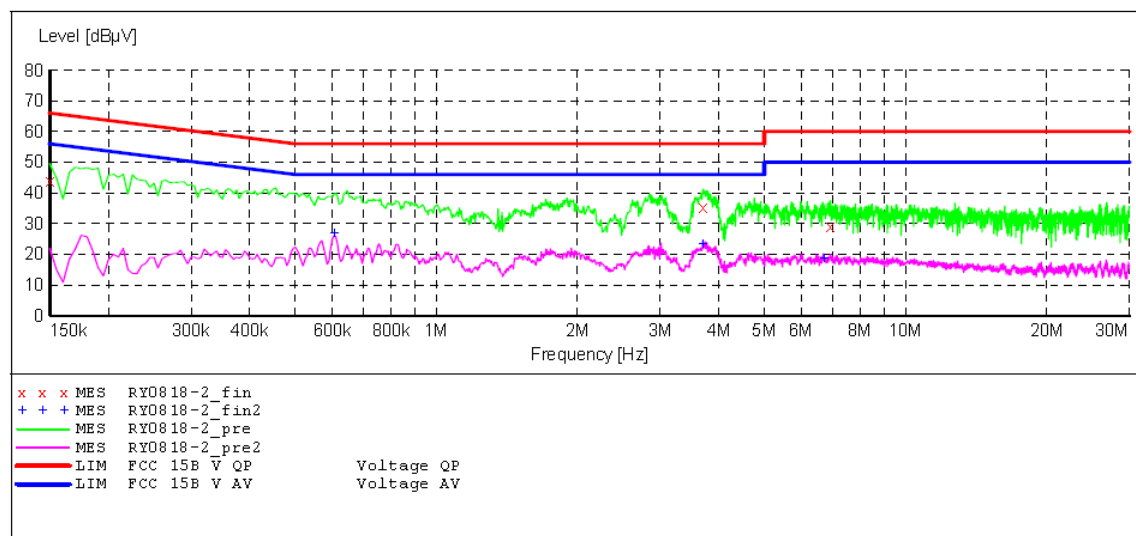
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: RAPiD Safe Gen II M/N:HOM001RL Full Size
 Manufacturer: Hornady
 Operating Condition: TX
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20151711
 Start of Test: 8/18/2015 / 9:37:41AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY0818-2_fin"

8/18/2015 9:40AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	43.90	10.5	66	22.1	QP	N	GND
3.710000	35.20	11.1	56	20.8	QP	N	GND
6.920000	29.10	11.2	60	30.9	QP	N	GND

MEASUREMENT RESULT: "RY0818-2_fin2"

8/18/2015 9:40AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.605000	26.60	10.7	46	19.4	AV	N	GND
3.700000	23.30	11.1	46	22.7	AV	N	GND
6.680000	18.70	11.2	50	31.3	AV	N	GND

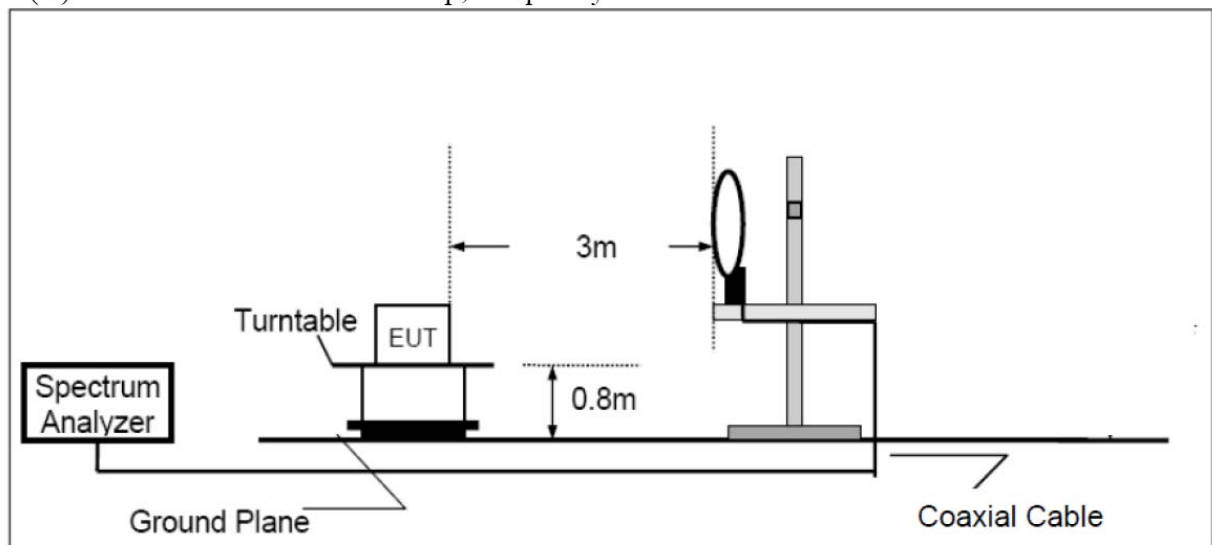
4. RADIATED EMISSION MEASUREMENT

4.1. For Radiated Emission Measurement

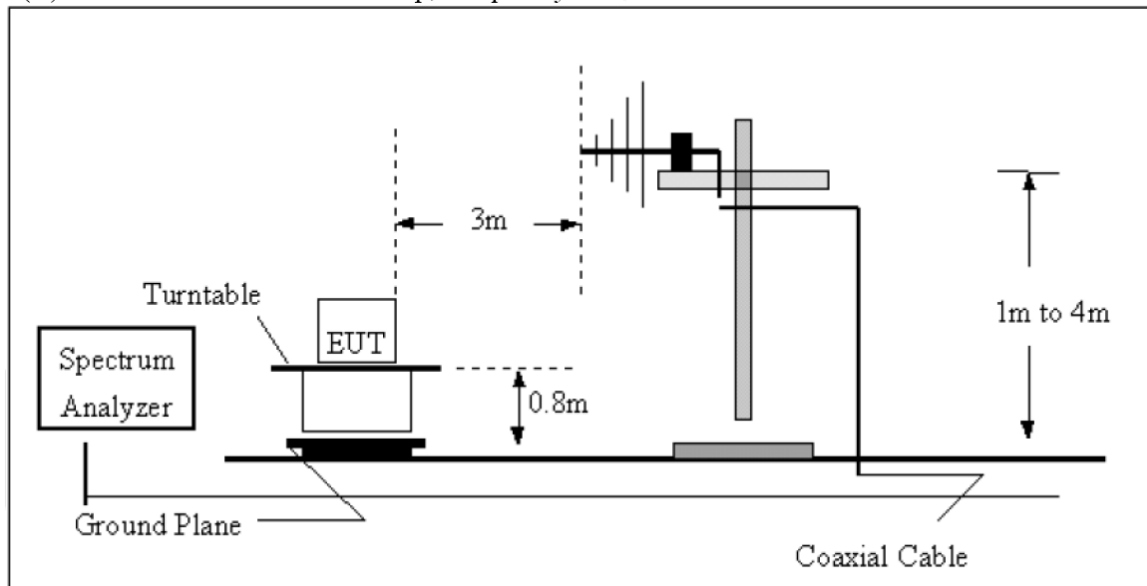
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2015	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan. 11, 2015	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2015	1 Year
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2015	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2015	1 Year
6.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan. 11, 2015	1 Year
12.	Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	Jan. 11, 2015	1 Year
Expanded Uncertainty (9kHz-30MHz): U=3.08dB, k=2 Expanded Uncertainty (30MHz-1000MHz): U=4.42dB, k=2 Expanded Uncertainty (Above 1GHz): U=4.06dB, k=2						

4.2. TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



4.3. Block Diagram of Test Setup

4.3.1. Block diagram of connection between the EUT and simulators



4.4. Radiated Emission Limit

Frequency (MHz)	Field Strength Limitation		Field Strength Limitation at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100 * 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

Limit: $2400/125=19.2\mu\text{V/m}@300\text{m}$

Distance Correction Factor= $40\log(\text{test distance}/\text{specific distance})$

4.5. EUT Configuration on Measurement

The 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.

4.6. Operating Condition of EUT

4.6.1. Setup the EUT and simulator as shown as Section 4.2.

4.6.2. Turn on the power of all equipment.

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

4.7. 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: 2014 on radiated emission measurement.

From 9kHz to 30MHz at distance 3m The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

From 30MHz to 1000MHz at distance 3m The measuring antenna height varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

The final measurement will be performed with an EMI Receiver set to Quasi Peak detector for the frequency bands 9kHz to 90kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209(d)(2).

The final level, expressed in dBuV/m, is arrived at by taking the reading from the EMI receiver (Level dBuV) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit. The resolution bandwidth during the measurement is as follows:

9kHz – 150kHz: ResBW:200Hz

150kHz – 30MHz: ResBW:9kHz

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

4.8. Radiated Emission Noise Measurement Result

PASS.

From 9 kHz to 30MHz

Frequency (MHz)	Quasi Peak (dB μ V/m)	Azimuth	Polarity (H/V)	Factors (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
0.125	68.14	153	H	-56.36	105.7	-37.56
2.02	40.55	36	H	-54.15	69.5	-28.95
14.25	35.22	205	H	-52.01	69.5	-34.28
0.125	72.14	185	V	-56.36	105.7	-33.56
3.68	42.74	352	V	-53.27	69.5	-26.76
17.35	36.24	15	V	-51.25	69.5	-33.26

Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit at 3m=Limit at 300m-40*log(300(m)/3(m))

Limit at 3m=Limit at 30m-40*log(30(m)/3(m))



ACCURATE TECHNOLOGY CO., LTD.

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

Site: 2# Chamber

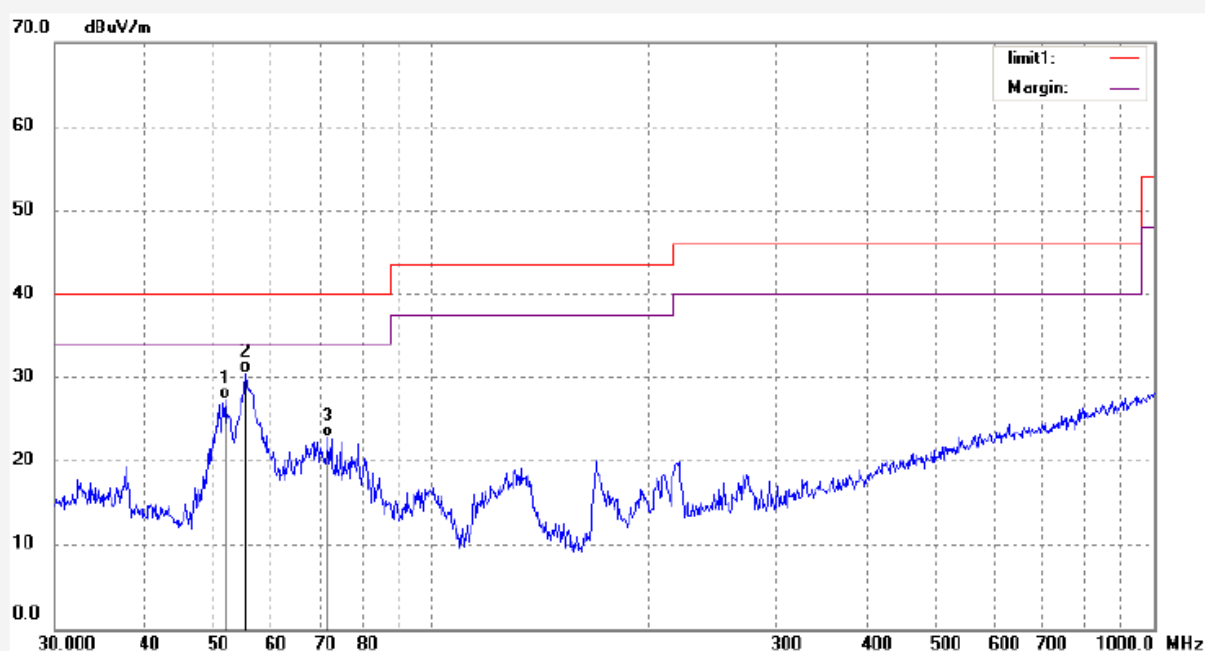
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY2015 #82
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: RAPID Safe Gen II
Mode: TX
Model: HOM001RL Full Size
Manufacturer: Hornady

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/08/14/
Time: 10/50/33
Engineer Signature: PEI
Distance: 3m

Note: Report No.:ATE20151711



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	51.8815	40.05	-12.73	27.32	40.00	-12.68	QP			
2	55.2207	43.53	-13.02	30.51	40.00	-9.49	QP			
3	71.8319	40.15	-17.34	22.81	40.00	-17.19	QP			



ACCURATE TECHNOLOGY CO., LTD.

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

Report No.: ATE20151711

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY2015 #83

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: RAPiD Safe Gen II

Mode: TX

Model: HOM001RL Full Size

Manufacturer: Hornady

Polarization: Vertical

Power Source: AC 120V/60Hz

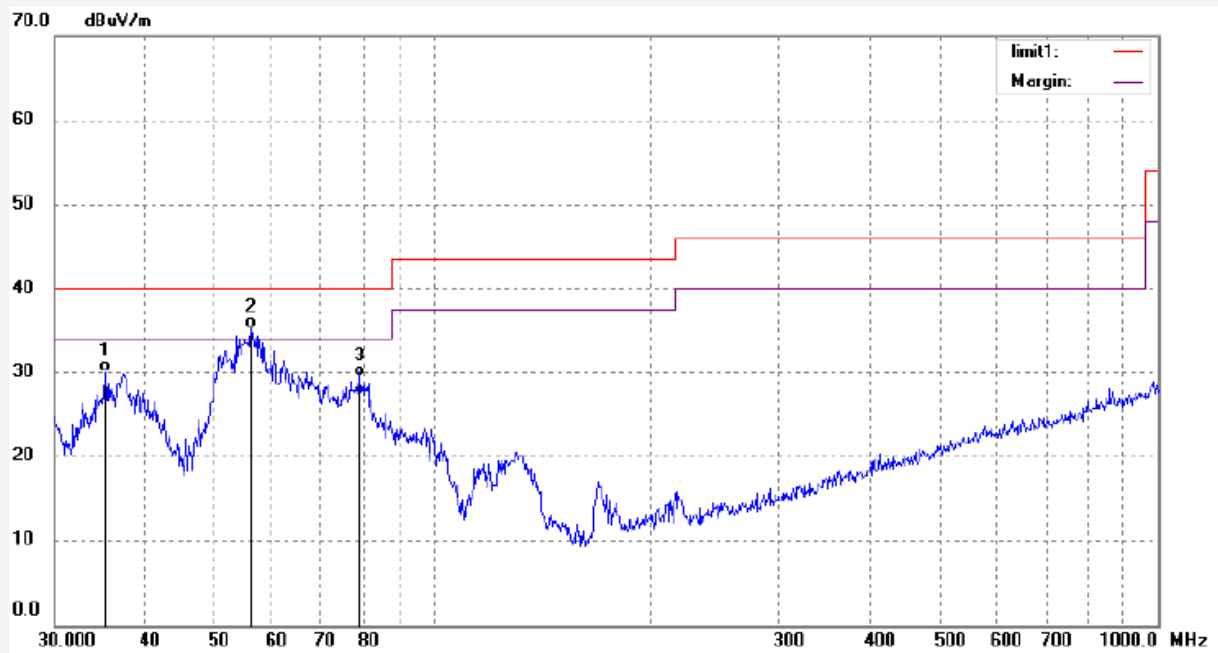
Date: 15/08/14/

Time: 10/52/22

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20151711



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.2511	40.52	-10.48	30.04	40.00	-9.96	QP			
2	56.0007	48.44	-13.17	35.27	40.00	-4.73	QP			
3	79.2425	47.01	-17.56	29.45	40.00	-10.55	QP			

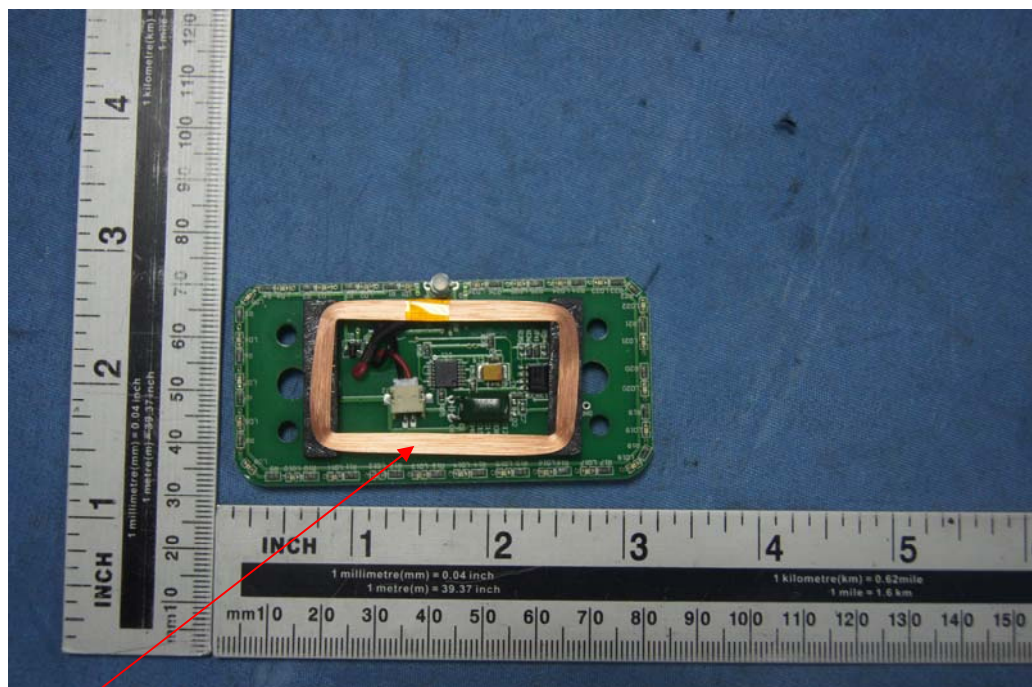
5. ANTENNA REQUIREMENT

5.1.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.

5.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 3dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna