

FCC Part15, Subpart B ICES-003

TEST REPORT

For

TOY Receiver

MODEL NUMBER: 32UBD

FCC ID: G6D32UBD

REPORT NUMBER: 4789448159-1

ISSUE DATE: April 30, 2020

Prepared for

NEW BRIGHT INDUSTRIAL CO., LTD 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



Page 2 of 31

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	04/30/2020	Initial Issue	



Page 3 of 31

Summary of Test Results				
Standard	Test Item	Limit	Result	Remark
FCC Part15, Subpart B	Conducted Disturbance	Class B	PASS	NOTE (2)
ANSI C63.4-2014 ICES-003 Issue 6	Radiated Disturbance below 1 GHz	Class B	PASS	
10L0-000 1330E 0	Radiated Disturbance above 1 GHz	Class B	PASS	NOTE (3)

Note

- (1) "N/A" denotes test is not applicable in this test report.
- (2) This test is only applicable for devices which can be charged or powered by AC power cable.
- (3) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
- (4) This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
- (5) The measurement result for the sample received is <Pass> according to < FCC Part15, Subpart B and ICES-003 Issue 6 > when <Accuracy Method> decision rule is applied.



CONTENTS

1. A	TTESTATION OF TEST RESULTS	5
2. TE	EST METHODOLOGY	6
3. F <i>A</i>	ACILITIES AND ACCREDITATION	6
4. C	ALIBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	MEASUREMENT UNCERTAINTY	7
5. EC	QUIPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	TEST MODE	8
5.3.	EUT ACCESSORY	8
<i>5.4</i> .	SUPPORT UNITS FOR SYSTEM TEST	8
6. MI	EASURING EQUIPMENT AND SOFTWARE USED	9
7. EN	MISSION TEST	10
7.1.	CONDUCTED EMISSIONS MEASUREMENT	10
7.2.	RADIATED EMISSIONS MEASUREMENT	14



Page 5 of 31

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, Address:

KOWLOON BAY, KOWLOON, HONG KONG.

Manufacturer Information

Company Name: NEW BRIGHT INDUSTRIAL CO., LTD

Address: 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,

KOWLOON BAY, KOWLOON, HONG KONG.

EUT Information

EUT Name: TOY Receiver

Model: **32UBD**

Sample Received Date: April 10, 2020 Sample ID: 3027720 Sample Status: Normal

Date of Tested: April 15, 2020~April 28, 2020

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
FCC Part15, Subpart B	PASS		
ICES-003 Issue 6	PASS		

	STANDARD		TEST RESULTS
	FCC Part15, Subpart B		PASS
	ICES-003 Issue 6		PASS
Prepared By:		Checked By:	

Shemy les Mick. Zhang

Mick Zhang Shawn Wen **Project Engineer** Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager



Page 6 of 31

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC Part15 Subpart B & ICES-003 Issue 6 & ANSI C63.4-2014.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Recognized No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject to
	the Commission's Declaration of Conformity (DoC) and Certification rules
	ISED (Company No.: 21320)
	, , , ,
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with
	Industry Canada. The Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	, ,
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Page 7 of 31

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	К	U(dB)
Conducted emissions from the AC mains power ports	0.009MHz ~ 0.15MHz	2	4.00
Conducted emissions from the AC mains power ports	0.15MHz ~ 30MHz	2	3.62
Radiated emissions	30MHz ~ 1GHz	2	4.00
Radiated emissions	1GHz ~ 18GHz	2	5.78

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Page 8 of 31

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	TOY Receiver
Model	32UBD
Rated Input	DC 5.0V
Battery	DC 3.2V

5.2. TEST MODE

Test Mode	Description
Mode 1	Charging
Mode 2	Running
Mode 3	Receiving

5.3. EUT ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Remote	N/A	31HB	N/A

5.4. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
1	Adapter	YI	A18A-050100U- CN2	Input: AC 100-240V 50/60Hz, 0.5A Output: DC 5V/2A	118492zb1000018

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Specification
/	/	/	/	/

Page 9 of 31

6. MEASURING EQUIPMENT AND SOFTWARE USED

		Conducted	Emissions			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
EMI Test Receiver	R&S	ESR3	101961	Dec. 5, 2019	Dec. 5, 2020	
Two-Line V- Network	R&S	ENV216	101983	Dec. 5, 2019	Dec. 5, 2020	
	Software					
	Description		Manufacturer	Name	Version	
Test Softwa	re for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1	
		Radiated E	missions			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Dec. 6, 2019	Dec. 6, 2020	
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Sept. 17, 2018	Sept. 17, 2021	
Preamplifier	HP	8447D	2944A09099	Dec. 5, 2019	Dec. 5, 2020	
EMI Measurement Receiver	R&S	ESR26	101377	Dec. 5, 2019	Dec. 5, 2020	
Horn Antenna	TDK	HRN-0118	130939	Sept. 17, 2018	Sept. 17, 2021	
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Dec. 05, 2019	Dec. 5, 2020	
Preamplifier	TDK	PA-02-001- 3000	TRS-302-00050	Dec. 05, 2019	Dec. 05, 2020	
		Softw	/are			
	Description		Manufacturer	Name	Version	
Test Softwa	are for Radiated	Emissions	Farad	EZ-EMC	Ver. UL-3A1	



Page 10 of 31

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS MEASUREMENT

LIMITS

CFR 47 FCC Part15 Subpart B ICES-003 Issue 6					
FREQUENCY	Class A	Class A (dBµV) Class B (dBµV)			
(MHz)	Quasi-peak Average		Quasi-peak	Average	
0.15 -0.5	79.00 66.00		66 - 56 *	56 - 46*	
0.50 -5.0	73.00 60.00		56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

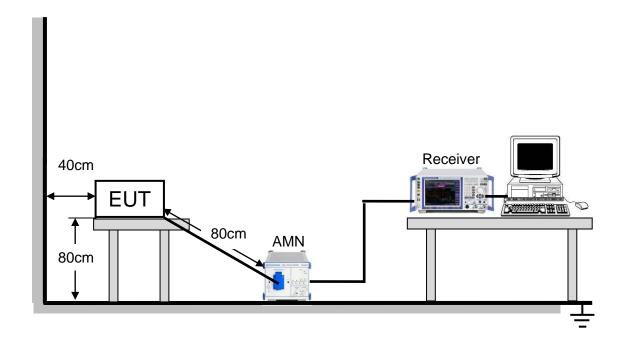
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.



TEST SETUP



For the actual test configuration, please refer to Appendix I: Photographs of Test Configuration.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	60%
Atmosphere Pressure	101kPa		

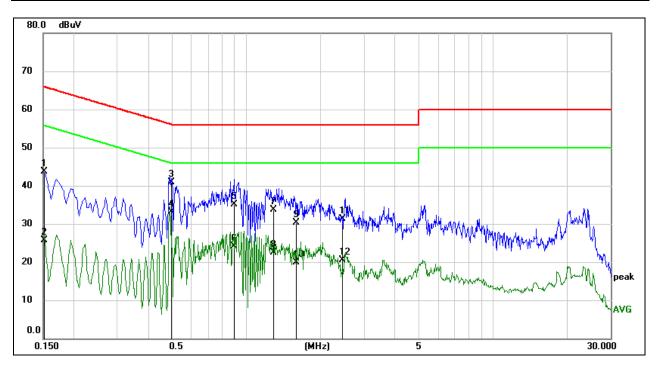
TEST MODE

Pre-test Mode:	Mode 1
Final Test Mode:	Mode 1



TEST RESULTS

Conducted Emissions				
Test Mode: Mode 1 Phase: Line				
Test Voltage:	AC 120V_60Hz			

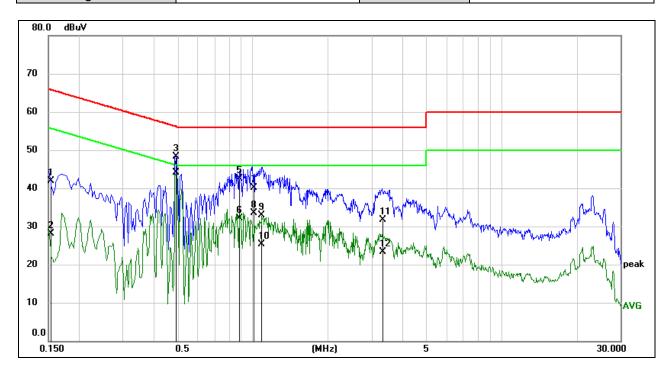


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1518	34.19	9.61	43.80	65.90	-22.10	QP
2	0.1518	16.09	9.61	25.70	55.90	-30.20	AVG
3	0.4949	31.40	9.60	41.00	56.09	-15.09	QP
4	0.4949	23.53	9.60	33.13	46.09	-12.96	AVG
5	0.8997	25.54	9.60	35.14	56.00	-20.86	QP
6	0.8997	14.58	9.60	24.18	46.00	-21.82	AVG
7	1.2894	24.13	9.61	33.74	56.00	-22.26	QP
8	1.2894	12.81	9.61	22.42	46.00	-23.58	AVG
9	1.5966	20.63	9.62	30.25	56.00	-25.75	QP
10	1.5966	10.27	9.62	19.89	46.00	-26.11	AVG
11	2.4628	21.74	9.63	31.37	56.00	-24.63	QP
12	2.4628	10.79	9.63	20.42	46.00	-25.58	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
2. Margin = Result - Limit



Conducted Emissions				
Test Mode:	Mode 1	Phase:	Neutral	
Test Voltage:	AC 120V_60Hz			



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1532	32.33	9.60	41.93	65.82	-23.89	QP
2	0.1532	18.45	9.60	28.05	55.82	-27.77	AVG
3	0.4882	38.67	9.60	48.27	56.20	-7.93	QP
4	0.4882	34.60	9.60	44.20	46.20	-2.00	AVG
5	0.8839	32.81	9.60	42.41	56.00	-13.59	QP
6	0.8839	22.53	9.60	32.13	46.00	-13.87	AVG
7	1.0047	30.57	9.61	40.18	56.00	-15.82	QP
8	1.0047	23.91	9.61	33.52	46.00	-12.48	AVG
9	1.0844	23.32	9.61	32.93	56.00	-23.07	QP
10	1.0844	15.65	9.61	25.26	46.00	-20.74	AVG
11	3.3448	22.05	9.65	31.70	56.00	-24.30	QP
12	3.3448	13.70	9.65	23.35	46.00	-22.65	AVG

Note: 1. Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
2. Margin = Result - Limit



Page 14 of 31

7.2. RADIATED EMISSIONS MEASUREMENT

LIMITS

Below 1 GHz

CFR 47 FCC Part15 Subpart B ICES-003 Issue 6				
Frequency	Cla	iss A	Class B	
(MHz)	Field strength Field strength (uV/m) (at 10m) (dBuV/m) (at 3m)		Field strength (dBuV/m) (at 3m)	
30 - 88	90	49.5	40	
88 - 216	150	53.9	43.5	
216 - 960	210	56.9	46	
Above 960	300	60	54	

Above 1 GHz

CFR 47 FCC Part15 Subpart B ICES-003 Issue 6						
Frequency	Class A Class B (dBuV/m) (at 3m) (dBuV/m) (at 10m) (dBuV/m) (at 3m)					
(MHz)	Peak Average		Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

Test Frequency Range of Radiated Disturbance Measurement

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

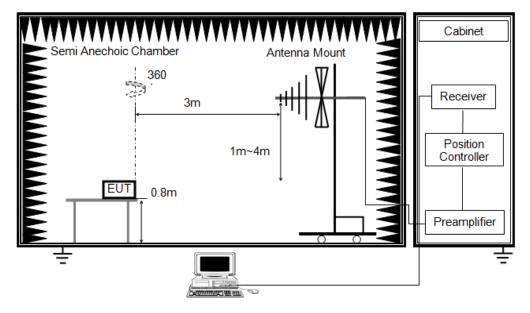
NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m), 3m Emission level = 10m Emission level + 20log(10m/3m);



TEST SETUP AND PROCEDURE

Below 1G and above 30MHz



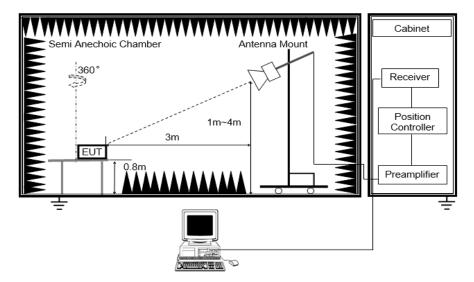
The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.



Above 1G



The setting of the spectrum analyser

RBW	1M
VBW	3M
Sweep	Auto
II IOTOCTOR	Peak: Peak AVG: RMS
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.4-2014.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp is used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80cm above ground.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
- 7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 8. For measurement above 1GHz, the peak emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the peak limit specified in Section 15.109. If peak result complies with average limit, average result is deemed to comply with average limit.
- 9. The average emission measurement will be measured by the RMS detector and must comply with the average limit specified in Section 15.109.



Page 17 of 31

TEST ENVIRONMENT

Radiated Emissio	ns - Below 1 GHz	Radiated Emissions - Above 1 GHz		
Temperature:	nperature: 24°C		22.7°C	
Humidity:	63%	Humidity:	56%	
Atmosphere Pressure	101kPa	Atmosphere Pressure	101kPa	

TEST MODE

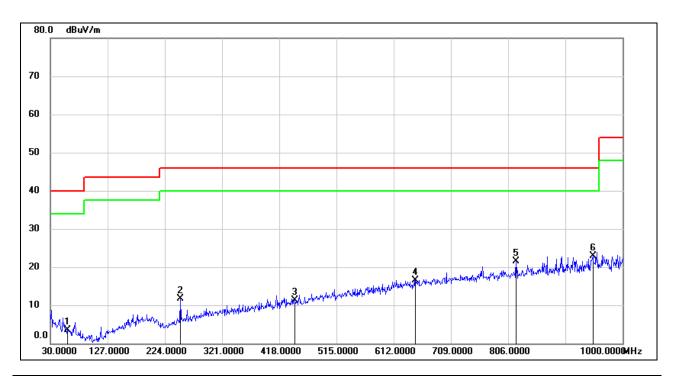
Radiated Em	Radiated Emissions - Below 1 GHz		Radiated Emissions - Above 1 GHz		
Pre-test Mode: Mode 1 - Mode 3		Pre-test Mode:	Mode 1 - Mode 3		
Final Test Mode: Mode 1 - Mode 3		Final Test Mode:	Mode 2 & Mode 3		

Note: All test modes had been tested, but only the worst data recorded in the report.



TEST RESULTS

Radiated Emissions – Below 1GHz						
Measurement Method Radiated Polar: Horizontal						
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz			

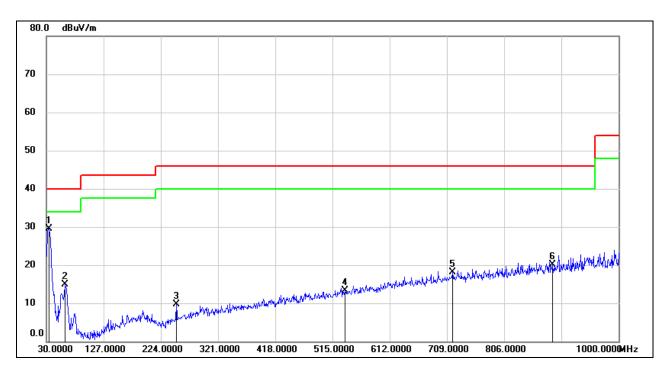


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	59.1000	22.69	-19.24	3.45	40.00	-36.55	QP
2	250.1900	27.96	-16.34	11.62	46.00	-34.38	QP
3	444.1900	23.25	-11.93	11.32	46.00	-34.68	QP
4	648.8600	24.58	-8.04	16.54	46.00	-29.46	QP
5	819.5800	26.68	-5.11	21.57	46.00	-24.43	QP
6	949.5600	26.40	-3.42	22.98	46.00	-23.02	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)



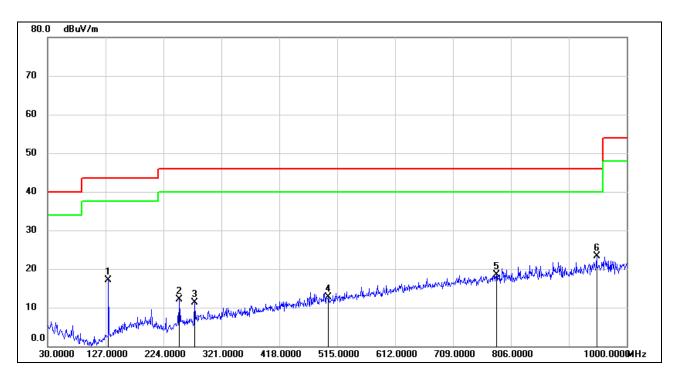
Radiated Emissions – Below 1GHz					
Measurement Method	Radiated	Polar:	Vertical		
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.8500	46.97	-17.45	29.52	40.00	-10.48	QP
2	61.0400	34.39	-19.51	14.88	40.00	-25.12	QP
3	250.1900	26.09	-16.34	9.75	46.00	-36.25	QP
4	536.3400	23.32	-10.10	13.22	46.00	-32.78	QP
5	718.7000	24.53	-6.49	18.04	46.00	-27.96	QP
6	888.4500	24.42	-4.36	20.06	46.00	-25.94	QP



Radiated Emissions – Below 1GHz					
Measurement Method Radiated Polar: Horizontal					
Test Mode:	Mode 2	Test Voltage:	DC 3.2V		

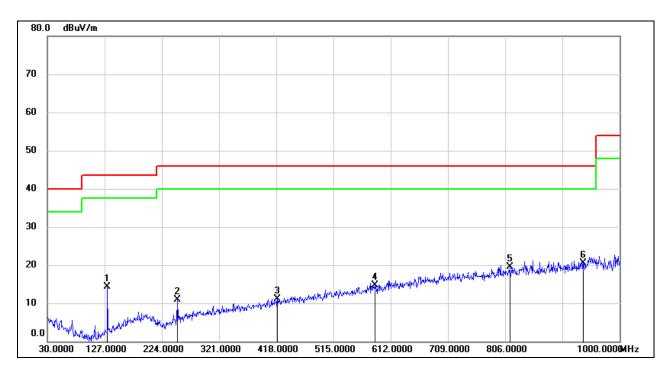


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	131.8500	36.67	-19.54	17.13	43.50	-26.37	QP
2	250.1900	28.39	-16.34	12.05	46.00	-33.95	QP
3	276.3800	26.62	-15.30	11.32	46.00	-34.68	QP
4	500.4500	23.70	-10.91	12.79	46.00	-33.21	QP
5	781.7500	24.42	-5.90	18.52	46.00	-27.48	QP
6	949.5600	26.78	-3.42	23.36	46.00	-22.64	QP

Note: 1. Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)



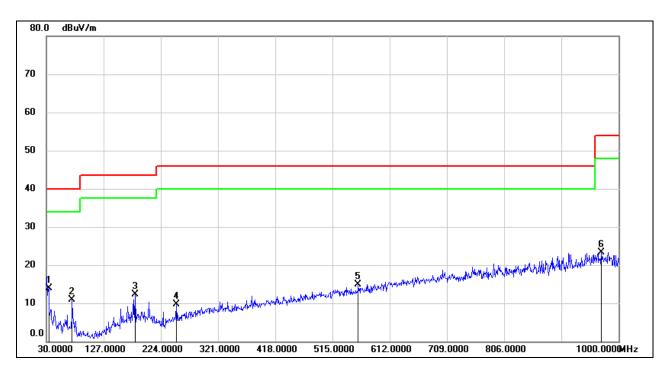
Radiated Emissions – Below 1GHz					
Measurement Method Radiated Polar: Vertical					
Test Mode:	Mode 2	Test Voltage:	DC 3.2V		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	131.8500	33.83	-19.54	14.29	43.50	-29.21	QP
2	250.1900	27.30	-16.34	10.96	46.00	-35.04	QP
3	419.9400	23.53	-12.36	11.17	46.00	-34.83	QP
4	584.8400	23.78	-9.15	14.63	46.00	-31.37	QP
5	813.7600	24.87	-5.38	19.49	46.00	-26.51	QP
6	938.8900	24.27	-3.74	20.53	46.00	-25.47	QP



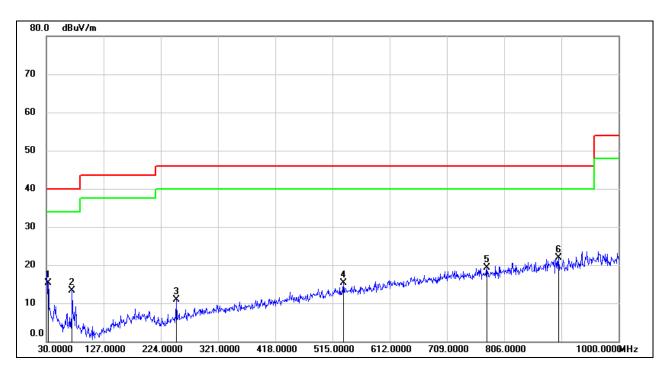
Radiated Emissions – Below 1GHz								
Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 3	Test Voltage:	DC 3.2V					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	31.27	-17.33	13.94	40.00	-26.06	QP
2	73.6500	31.15	-20.17	10.98	40.00	-29.02	QP
3	180.3500	28.90	-16.53	12.37	43.50	-31.13	QP
4	250.1900	26.08	-16.34	9.74	46.00	-36.26	QP
5	558.6500	24.60	-9.79	14.81	46.00	-31.19	QP
6	970.9000	26.60	-3.38	23.22	54.00	-30.78	QP



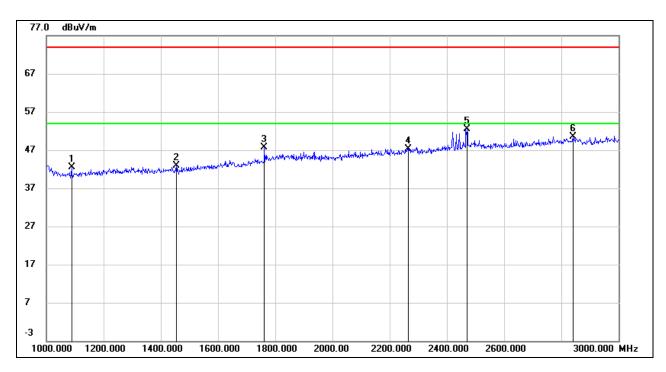
Radiated Emissions – Below 1GHz								
Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 3	Test Voltage:	DC 3.2V					



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	32.54	-17.17	15.37	40.00	-24.63	QP
2	73.6500	33.57	-20.17	13.40	40.00	-26.60	QP
3	250.1900	27.24	-16.34	10.90	46.00	-35.10	QP
4	533.4300	25.38	-10.16	15.22	46.00	-30.78	QP
5	776.9000	25.34	-5.98	19.36	46.00	-26.64	QP
6	898.1500	26.10	-4.27	21.83	46.00	-24.17	QP



Radiated Emissions – Above 1GHz and Below 3GHz									
Measurement Method	Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 2	Test Voltage:	DC 3.2V						

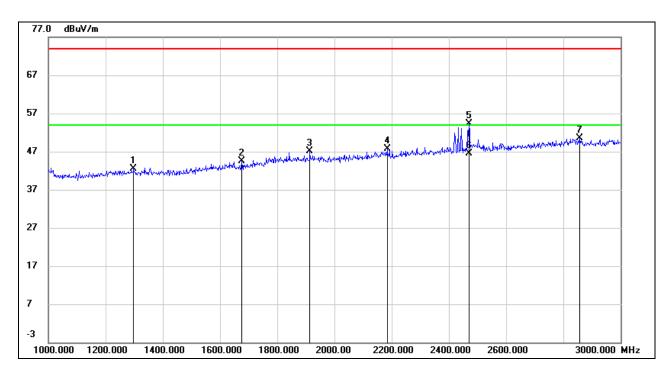


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1088.000	14.66	27.82	42.48	74.00	-31.52	peak
2	1454.000	13.88	29.03	42.91	74.00	-31.09	peak
3	1762.000	16.79	30.87	47.66	74.00	-26.34	peak
4	2264.000	14.80	32.53	47.33	74.00	-26.67	peak
5	2470.000	19.01	33.49	52.50	74.00	-21.50	peak
6	2840.000	16.00	34.50	50.50	74.00	-23.50	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 1GHz and Below 3GHz									
Measurement Method	Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 2	Test Voltage:	DC 3.2V						

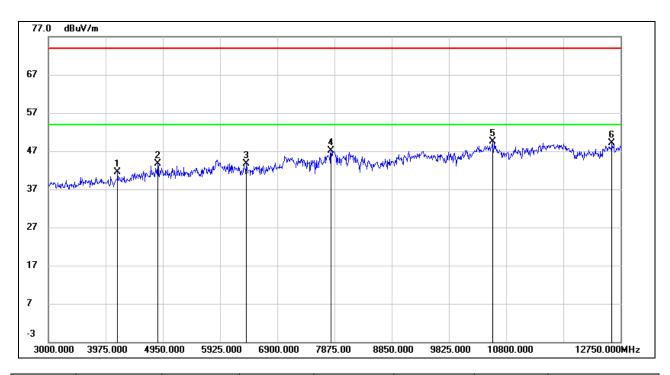


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1298.000	13.44	29.05	42.49	74.00	-31.51	peak
2	1676.000	14.37	30.15	44.52	74.00	-29.48	peak
3	1914.000	15.69	31.38	47.07	74.00	-26.93	peak
4	2184.000	15.46	32.27	47.73	74.00	-26.27	peak
5	2470.000	20.82	33.49	54.31	74.00	-19.69	peak
6	2470.000	13.02	33.49	46.51	54.00	-7.49	AVG
7	2858.000	15.97	34.59	50.56	74.00	-23.44	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.
- 5. AVG: RMS detector.



Radiated Emissions – Above 3GHz								
Measurement Method Radiated Polar: Horizontal								
Test Mode:	Mode 2	Test Voltage:	DC 3.2V					

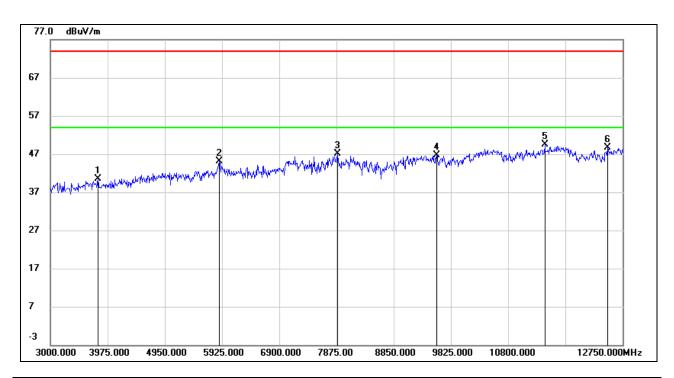


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4179.750	43.01	-1.56	41.45	74.00	-32.55	peak
2	4862.250	42.95	0.71	43.66	74.00	-30.34	peak
3	6373.500	39.46	4.22	43.68	74.00	-30.32	peak
4	7816.500	39.29	7.82	47.11	74.00	-26.89	peak
5	10566.000	37.73	11.76	49.49	74.00	-24.51	peak
6	12603.750	35.04	14.01	49.05	74.00	-24.95	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 3GHz								
Measurement Method Radiated Polar: Vertical								
Test Mode:	Mode 2	Test Voltage:	DC 3.2V					

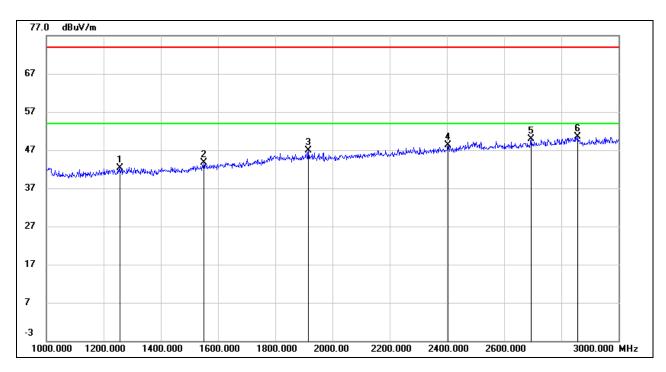


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3809.250	43.32	-2.80	40.52	74.00	-33.48	peak
2	5876.250	40.53	4.51	45.04	74.00	-28.96	peak
3	7894.500	39.77	7.27	47.04	74.00	-26.96	peak
4	9581.250	37.02	9.66	46.68	74.00	-27.32	peak
5	11424.000	36.74	12.81	49.55	74.00	-24.45	peak
6	12496.500	34.15	14.54	48.69	74.00	-25.31	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 1GHz and Below 3GHz						
Measurement Method Radiated Polar: Horizontal						
Test Mode:	Mode 3	Test Voltage:	DC 3.2V			

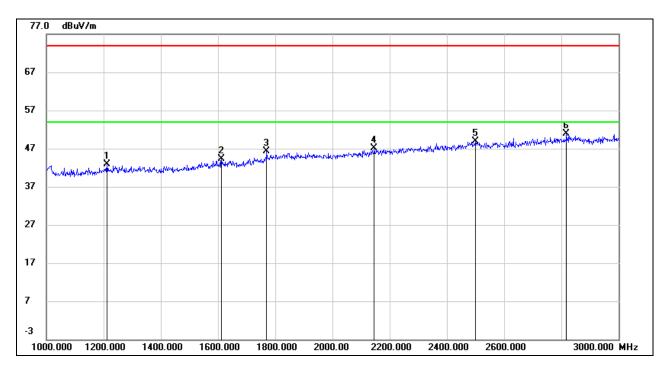


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1258.000	13.47	28.90	42.37	74.00	-31.63	peak
2	1550.000	14.20	29.56	43.76	74.00	-30.24	peak
3	1916.000	15.49	31.39	46.88	74.00	-27.12	peak
4	2404.000	15.38	33.01	48.39	74.00	-25.61	peak
5	2694.000	16.07	33.74	49.81	74.00	-24.19	peak
6	2858.000	15.96	34.59	50.55	74.00	-23.45	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 1GHz and Below 3GHz						
Measurement Method	Radiated	Polar:	Vertical			
Test Mode:	Mode 3	Test Voltage:	DC 3.2V			

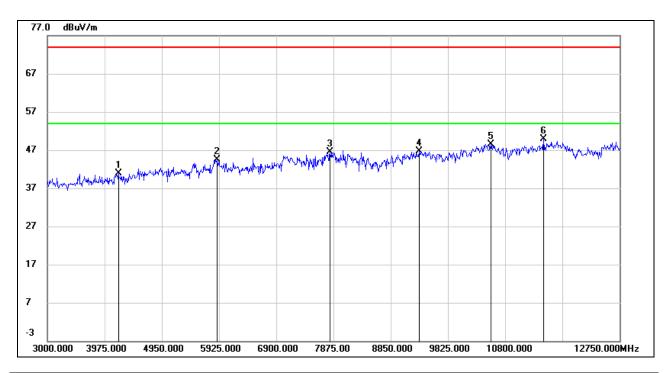


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1212.000	14.09	28.75	42.84	74.00	-31.16	peak
2	1612.000	14.26	30.03	44.29	74.00	-29.71	peak
3	1770.000	15.39	30.96	46.35	74.00	-27.65	peak
4	2146.000	14.95	32.14	47.09	74.00	-26.91	peak
5	2500.000	15.19	33.70	48.89	74.00	-25.11	peak
6	2818.000	16.43	34.40	50.83	74.00	-23.17	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 3GHz							
Measurement Method Radiated Polar: Horizontal							
Test Mode: Mode 3 Test Voltage: DC 3.2V							

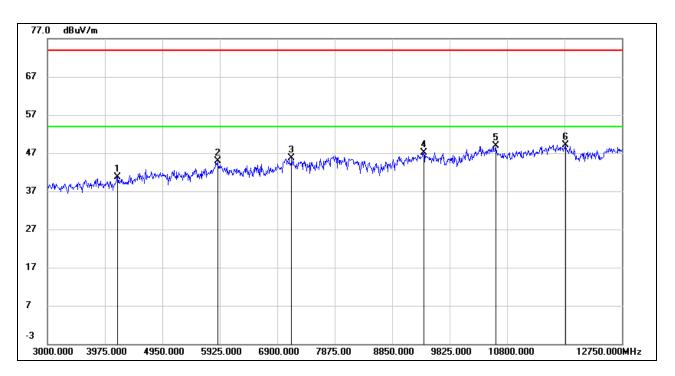


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4209.000	42.15	-1.29	40.86	74.00	-33.14	peak
2	5886.000	39.82	4.70	44.52	74.00	-29.48	peak
3	7816.500	38.76	7.82	46.58	74.00	-27.42	peak
4	9337.500	37.46	9.22	46.68	74.00	-27.32	peak
5	10556.250	36.88	11.69	48.57	74.00	-25.43	peak
6	11453.250	36.86	13.05	49.91	74.00	-24.09	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.



Radiated Emissions – Above 3GHz						
Measurement Method	Radiated	Polar:	Vertical			
Test Mode:	Mode 3	Test Voltage:	DC 3.2V			



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4189.500	42.12	-1.40	40.72	74.00	-33.28	peak
2	5886.000	40.21	4.70	44.91	74.00	-29.09	peak
3	7143.750	39.75	5.88	45.63	74.00	-28.37	peak
4	9386.250	37.55	9.52	47.07	74.00	-26.93	peak
5	10605.000	36.93	11.93	48.86	74.00	-25.14	peak
6	11794.500	35.87	13.17	49.04	74.00	-24.96	peak

- 2. Margin = Result Limit
- 3. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 4. Peak: Peak detector.

END OF REPORT