

FCC TEST REPORT

 REPORT NO.:
 RF130614D01

 MODEL NO.:
 MORFHAO

 FCC ID:
 EMJMMORFHAO

 RECEIVED:
 Jun. 17, 2013

 TESTED:
 Jun. 17, 2013

 ISSUED:
 Jun. 24, 2013

APPLICANT: PRIMAX ELECTRONICS LTD.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB LOCATION: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130614D01	Original release	Jun. 24, 2013



1. CERTIFICATION

PRODUCT: HP Wireless Mouse Z3600 BRAND: hp MODEL NO .: MORFHAO **APPLICANT: PRIMAX ELECTRONICS LTD.** TESTED: Jun. 17, 2013 **TEST SAMPLE: MASS-PRODUCTION** STANDARDS: FCC Part 15, Subpart C (Section 15.249) ANSI C63.10-2009

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : <u>Annie Chang</u>, DATE: Jun. 24, 2013 (Annie Chang / Supervisor)

APPROVED BY :

Cen Lin , DATE: Jun. 24, 2013 (Ken Liu / Senior Manager)



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Power supply is 1.5Vdc from battery
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -7.0dB at 2390.00MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement	Frequency	Uncertainty
Dedicted emissions	30MHz ~ 1GHz	4.00 dB
Radiated emissions	Above 1GHz	3.36 dB



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	HP Wireless Mouse Z3600
MODEL NO.	MORFHAO
POWER SUPPLY	1.5Vdc from battery
MODULATION TYPE	GFSK
OPERATING FREQUENCY	2402MHz ~ 2479MHz
NUMBER OF CHANNEL	78
ANTENNA TYPE	Printed antenna with 3.85dBi gain
DATA CABLE	N/A
I/O PORT	N/A
ACCESSORY DEVICES	N/A

NOTE:

- 1. The EUT is a HP Wireless Mouse Z3600.
- 2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460		
19	2421	39	2441	59	2461		

78 channels are provided to this EUT:



3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

	EUT		APPLIC	ABLE TO		DESCRIPTION			
	CONFIGURE MODE	PLC	RE≥1G	RE<1G	BM		C	DESCRIPT	ION
ľ	-	Note	\checkmark	\checkmark	\checkmark	-			
			ne Conducte			≥ 1G: Radiate			GHz
	RE NOTE: No need			n below 1GH		I: Bandedge I			
	NOTE. NO fieed					or is powered	u by balle	i y	
<u>RAD</u>	IATED EMISS	ION TES	T (ABOV	E 1 GHz):					
	between avai architecture).	lable mod	lulations a	ixis and ar	ntenna po	orts (if EUT	with ar	itenna di	sible combinations versity
\bowtie	Following cha	annel(s) w	as (were)	selected	for the fin	al test as li	isted be	elow.	
	EUT CONFIGU	RE MODE	AVAILAB	LE CHANNE	EL TE	STED CHAN	INEL	MODU	LATION TYPE
	-		0	to 77		0, 37, 77			GFSK
<u>RAD</u>	IATED EMISS	ION TES	T (BELO\	<u>N 1 GHz):</u>	<u>:</u>				
	Pre-Scan has between avai architecture). Following cha	lable mod	lulations a	ixis and ar	ntenna po	orts (if EUT	with ar	itenna di	sible combinations versity
	EUT CONFIGU	REMODE	AVAILAB		EL TE	STED CHAN	INEL	MODU	LATION TYPE
	-		0	to 77		0			GFSK
BAN	DEDGE MEA			dotormin	o tho wo	et esso m	ada frar		sible combinations
		lable mod	lulations a	ind antenr	na ports (if EUT with	antenn	a diversi	ty architecture).
	EUT CONFIGU	RE MODE	AVAILAB	LE CHANNE	EL TE	STED CHAN	INEL	MODU	LATION TYPE
	-		0	to 77		0, 77			GFSK
TEST CONDITION:									
	APPLICABLE ENVIRONMENTAL TO CONDITIONS		-	INPUT POWER		TEST	ED BY		
	RE<1G	24deg	. C, 74% RH		1.5Vdc		Saxo	on Lee	
	RE≥1G	24deg	. C, 74% RH		1.5Vd	1.5Vdc Sa		on Lee	
	BM	24deg	24deg. C, 74% RH 1.5Vdc		C	Saxo	on Lee		
					1.500	C	Ounc		



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without any necessary accessory or support unit.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

EUT (Powered from battery)	
	Test table



3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.249)

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

N/A

4.2 RADIATED EMISSION AND BAND EDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BAND EDGE MEASUREMENT

The field strength of emissions from intentional radiators operate d within these frequency bands shall comply with the following

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 ~ 928 MHz	50	500
2400 ~ 2483.5 MHz	50	500
5725 ~ 5875 MHz	50	500
24 ~ 24.25 GHz	250	2500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits as below table, whichever is the lesser attenuation

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 26, 2013	Feb. 25, 2014
HP Preamplifier	8449B	3008A01201	Feb. 26, 2013	Feb. 25, 2014
Agilent TEST RECEIVER	N9038A	MY51210129	Jan. 03, 2013	Jan. 02, 2014
Schwarzbeck Antenna	VULB 9168	137	Mar. 20, 2013	Mar. 19, 2014
Schwarzbeck Antenna	VHBA 9123	480	May 29, 2013	May 28, 2014
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	ADT_Radiated_V 7.6.15.9.2	NA	NA	NA
SUHNER RF cable	SF102	CABLE-CH6	Aug. 19, 2012	Aug. 18, 2013
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	May 13, 2013	May 12, 2014
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	May. 17, 2013	May. 16, 2014

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.

2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

3. The test was performed in Chamber No. 6.

4. The Industry Canada Reference No. IC 7450E-6.

5. The FCC Site Registration No. is 447212.



4.2.3 TEST PROCEDURES

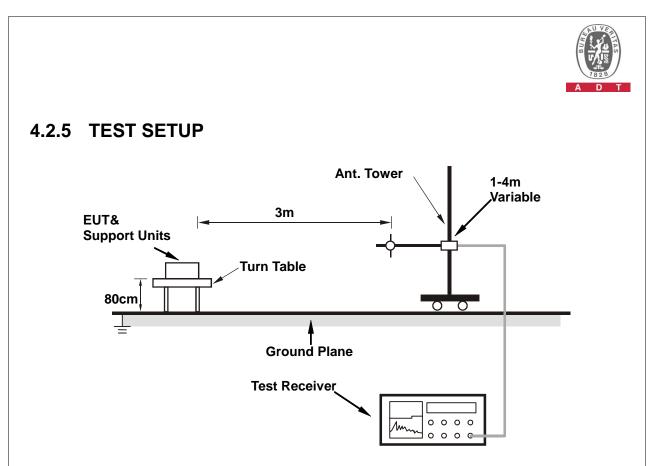
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.



4.2.7 TEST RESULTS

ABOVE 1GHz DATA

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	2390.00	58.2 PK	74.0	-15.8	1.00 H	149	25.87	32.33	
2	2390.00	47.0 AV	54.0	-7.0	1.00 H	149	50.73	-3.75	
3	2400.00	63.8 PK	74.0	-10.2	1.00 H	149	31.43	32.37	
4	2400.00	46.9 AV	54.0	-7.1	1.00 H	149	50.56	-3.70	
5	*2402.00	95.6 PK	114.0	-18.4	1.00 H	149	63.23	32.38	
6	*2402.00	78.3 AV	94.0	-15.7	1.00 H	149	81.99	-3.69	
7	4804.00	52.2 PK	74.0	-21.9	1.10 H	15	12.96	39.19	
8	4804.00	41.5 AV	54.0	-12.5	1.10 H	15	37.77	3.70	
		ANTENNA		Y & TEST DI	STANCE: V	ERTICAL A	Т 3 М		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	Correction Factor (dB/m)	
1	2390.00	57.9 PK	74.0	-16.1	1.00 V	235	25.55	32.33	
2	2390.00	45.0 AV	54.0	-9.0	1.00 V	235	48.77	-3.75	
3	2400.00	60.3 PK	74.0	-13.7	1.00 V	235	27.96	32.37	
4	2400.00	45.8 AV	54.0	-8.3	1.00 V	235	49.45	-3.70	
5	*2402.00	88.7 PK	114.0	-25.3	1.00 V	235	92.41	-3.69	
6	*2402.00	73.2 AV	94.0	-20.8	1.00 V	235	76.88	-3.69	
7	4804.00	53.9 PK	74.0	-20.1	1.00 V	208	14.68	39.19	
8	4804.00	44.6 AV	54.0	-9.4	1.00 V	208	40.86	3.70	

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. " * ": Fundamental frequency.



CHANNEL	TX Channel 37	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2439.00	95.7 PK	114.0	-18.3	1.00 H	110	63.18	32.55	
2	*2439.00	77.7 AV	94.0	-16.3	1.00 H	110	81.24	-3.53	
3	4878.00	52.0 PK	74.0	-22.0	1.08 H	23	48.27	3.75	
4	4878.00	41.3 AV	54.0	-12.7	1.08 H	23	37.58	3.75	
		ANTENNA		(& TEST DI	STANCE: V	ERTICAL A	Т 3 М		
NO.	NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) (Degree) RAW VALUE (dBuV) (dBuV) (dB/m)								
1	*2439.00	89.6 PK	114.0	-24.4	1.05 V	202	57.02	32.55	
2	*2439.00	74.2 AV	94.0	-19.8	1.05 V	202	77.71	-3.53	
3	4878.00	53.6 PK	74.0	-20.4	1.02 V	196	49.87	3.75	
4	4878.00	44.4 AV	54.0	-9.6	1.02 V	196	40.66	3.75	

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. "* ": Fundamental frequency.



CHANNEL	TX Channel 77	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2479.00	92.8 PK	114.0	-21.2	1.00 H	114	60.08	32.75	
2	*2479.00	76.4 AV	94.0	-17.6	1.00 H	114	79.70	-3.34	
3	2483.50	59.2 PK	74.0	-14.8	1.00 H	114	62.55	-3.32	
4	2483.50	45.0 AV	54.0	-9.0	1.00 H	114	48.31	-3.32	
5	4958.00	51.9 PK	74.0	-22.1	1.12 H	10	12.51	39.38	
6	4958.00	41.2 AV	54.0	-12.8	1.12 H	10	37.51	3.70	
		ANTENNA		Y & TEST DI	STANCE: V	ERTICAL A	Т 3 М		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2479.00	85.8 PK	114.0	-28.2	1.05 V	228	53.02	32.75	
2	*2479.00	71.0 AV	94.0	-23.0	1.05 V	228	74.32	-3.34	
3	2483.50	58.5 PK	74.0	-15.5	1.05 V	228	25.74	32.77	
4	2483.50	44.9 AV	54.0	-9.1	1.05 V	228	48.21	-3.32	
5	4958.00	53.0 PK	74.0	-21.0	1.00 V	213	49.29	3.70	
6	4958.00	43.9 AV	54.0	-10.1	1.00 V	213	40.16	3.70	

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value

5. " * ": Fundamental frequency.



BELOW 1GHz WORST-CASE DATA

CHANNEL	TX Channel 0	DETECTOR	Quasi-Peak
FREQUENCY RANGE	Below 1000MHz	FUNCTION	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	Correction Factor (dB/m)	
1	51.34	14.6 QP	40.0	-25.4	1.46 H	328	28.05	-13.42	
2	159.01	13.8 QP	43.5	-29.7	1.11 H	283	27.08	-13.32	
3	288.02	18.4 QP	46.0	-27.7	1.03 H	63	30.13	-11.78	
4	449.04	20.9 QP	46.0	-25.1	1.42 H	91	29.20	-8.28	
5	590.66	23.9 QP	46.0	-22.1	1.02 H	226	29.37	-5.49	
6	779.81	26.2 QP	46.0	-19.8	1.06 H	247	28.32	-2.09	
		ANTENNA		/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	Correction Factor (dB/m)	
1	46.49	13.4 QP	40.0	-26.6	1.03 V	15	26.82	-13.38	
2	147.37	13.7 QP	43.5	-29.8	1.05 V	135	27.30	-13.56	
3	395.69	19.0 QP	46.0	-27.0	1.39 V	45	28.60	-9.63	
4	634.31	23.7 QP	46.0	-22.3	1.04 V	6	28.21	-4.49	
5	784.66	25.9 QP	46.0	-20.1	1.47 V	10	27.96	-2.07	
6	938.89	28.2 QP	46.0	-17.8	1.03 V	11	28.18	0.06	

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission Level – Limit value



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab Tel: 886-2-26052180 Fax: 886-2-26051924 Hsin Chu EMC/RF Lab Tel: 886-3-5935343 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

The address and road map of all our labs can be found in our web site also.



7. APPENDIX A – MODIFICATION RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END----