



TEST REPORT N°: BVCK09FE115MTHS

TEST REPORT

To:	CABEN ASIA PACIFIC LTD	To:	-
Attn:	Sandy Yu	Attn:	-
Address:	9/F, Tal building, 49 Austin Road, TST, Kowloon, Hong Kong	Address:	-
Fax:	86-755-8831-2343	Fax:	-
E-mail:	sandy@caben.com.hk	E-mail:	-
Offer No.:	BVCK09FE24-02MTHS-A0		
Factory name:	--		
Location:	--		
Product:	00068451200070 RADIO CONTROL ATV (BLUE) IN 49.860MHz MODEL: 68451		



Sample No:	(5209) 050-0146
Test date:	February 28, 2009
Test Requested:	FCC Part 15 Certification Procedure
Test Method:	ANSI C63.4 – 2003
FCC ID:	MVH04979668451BTX

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to **COMPLY** with requirement of FCC Part 15 Subpart C.

Authorized Signature:

Reviewed by: Eric Wong Date: March 17, 2009	Approved by: Steven Tsang Date: March 17, 2009

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Location of the test site

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

List of measuring equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
M0008	EMI TEST RECEIVER	R&S	ESCI	100379	13-APR-2009
M0012	HF LOOP ANTENNA	SCHAFFNER	HLA 6120	21728	14-NOV-2009
M0011	BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	31-JAN-2010
M0027	OPEN AREA TEST SITE	BVCPS	N/A	N/A	05-JULY-2009
M0028	ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	09-JULY-2009

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
M0007	EMI TEST RECEIVER	R&S	ESCS30	830986/030	18-SEP-2009
M0019	LISN	R&S	ESH3-Z5	100116	10-FEB-2010
M0030	PULSE LIMITER	R&S	ESH3 Z2	100088	17-APR-2009

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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Equipment Under Test [EUT]

Description of Sample:

Model Name: 00068451200070 Radio Control ATV (Blue) in 49.860MHz

Model Number: 68451

Rating: 4.5Vd.c ("AAA" size battery x 3)

Description of EUT Operation:

The Equipment Under Test (EUT) is a CABEN ASIA PACIFIC LTD of Radio Control toy.

The transmitter is 4 buttons transmitter and operating at 49.86MHz. The EUT continues to transmit buttons is being pressed, Modulation by IC, and type is pulse modulation.

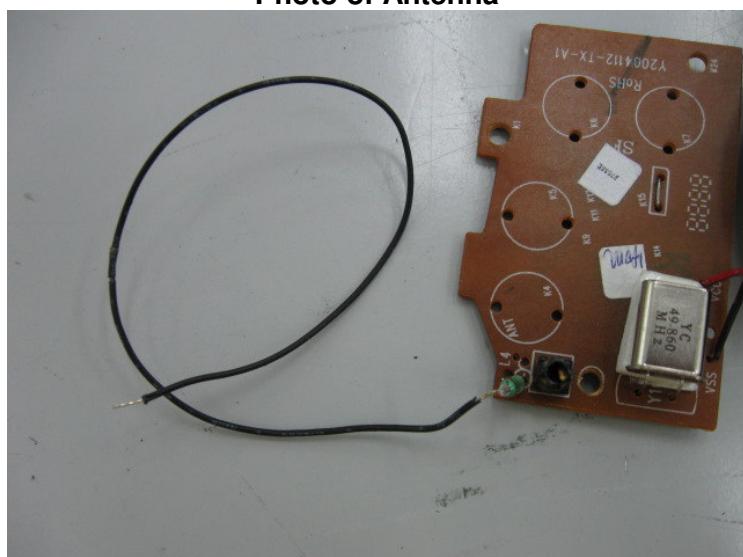
The transmitter has different control:

1. Left button – left wheel control
2. Right button – right wheel control
3. Forward button – Forward control
4. Backward button – Backward control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 20.0cm long signal wire. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.

Photo of Antenna



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TEST REPORT N°: BVCK09FE115MTHS

Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.235

Test Method: ANSI C63.4

Test Date(s): 2009-02-28

Mode of Operation: Transmission mode

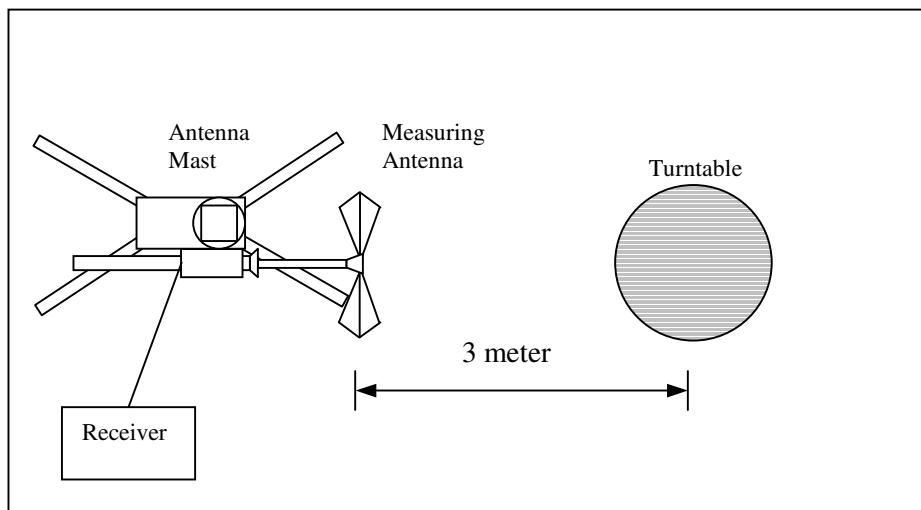
Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables. For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Test Setup: Open Area Test Site



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Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.235]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Peak] [μ V/m]	Field Strength of Fundamental Emission [Average] [μ V/m]
49.82 – 49.90	100,000 (100 dB μ V/m)	10,000 (80 dB μ V/m)

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
49.861	H	10.5	51.7	100	-48.3

Detection mode: # Average

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
49.861	H	10.5	**47.5	80	-32.5

For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = $20\log(0.62) = -4.2\text{dB}$

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz
VBW = 300KHz

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TEST REPORT N°: BVCK09FE115MTHS

Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: ANSI C63.4

Test Date(s): 2009-02-28

Mode of Operation: **Transmission mode**

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [μ V/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above 960	500

Measurement Data

Test Result of (Transmission mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (μ V/m)	Limit at 3m (μ V/m)	Margin (dB)
99.722	H	14.9	29.0	43.5	-14.5
149.583	H	14.8	26.8	43.5	-16.7
199.444	H	15.2	25.1	43.5	-18.4
249.305	H	17.9	24.5	46.0	-21.5
299.166	H	21.2	29.0	46.0	-17.0
349.027	V	23.3	33.2	46.0	-12.8
398.888	V	25.1	36.4	46.0	-9.6
448.749	V	26.4	38.6	46.0	-7.4
498.610	V	27.5	37.7	46.0	-8.3
548.471	H	28.8	37.1	46.0	-8.9

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.235
Test Method: ANSI C63.4:2003 (Section 13.1.7)
Test Date: 2009-02-28
Mode of Operation: Transmission mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for 26dB Bandwidth of Fundamental Emission:

Frequency [MHz]	26dB Bandwidth [KHz]	Limits [MHz]
49.86032	28.96	within 49.82-49.90

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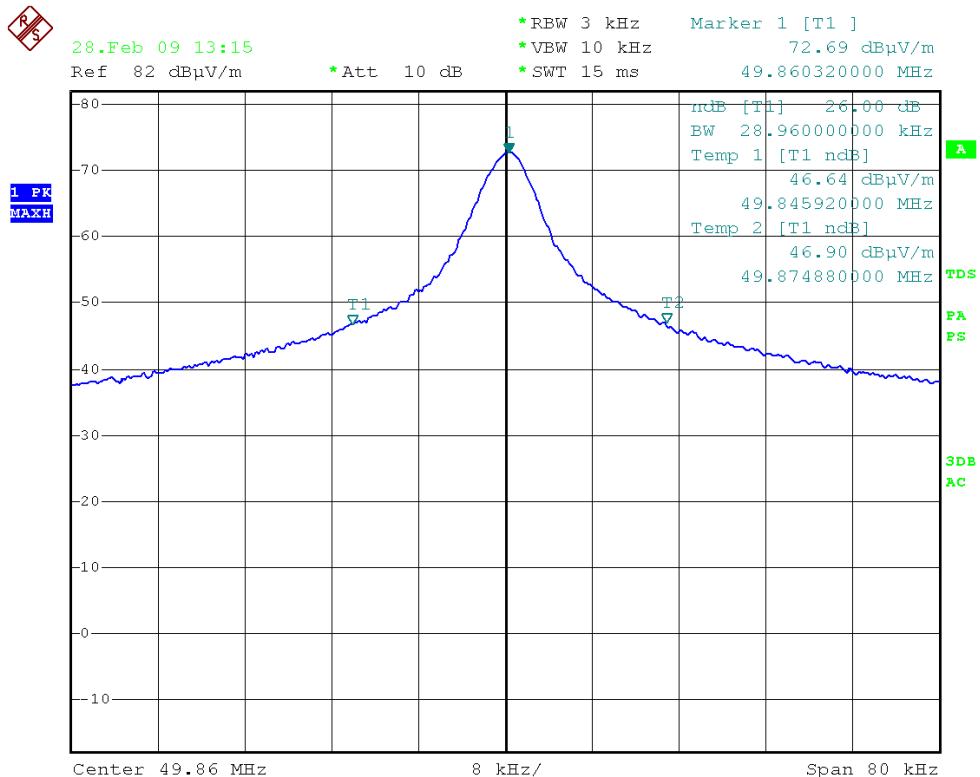
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Measurement Data :

Test Result of 26dB Bandwidth of Fundamental Emission: PASS



Date: 28.FEB.2009 13:15:56

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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (22.96msec) never exceeds a series of 4 long (1.6msec) and 14 short (0.56msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (4x1.6msec) + (14x0.56msec) per 22.96msec=62% duty cycle. Figure A and C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = $20\log(0.62) = -4.2\text{dB}$

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.

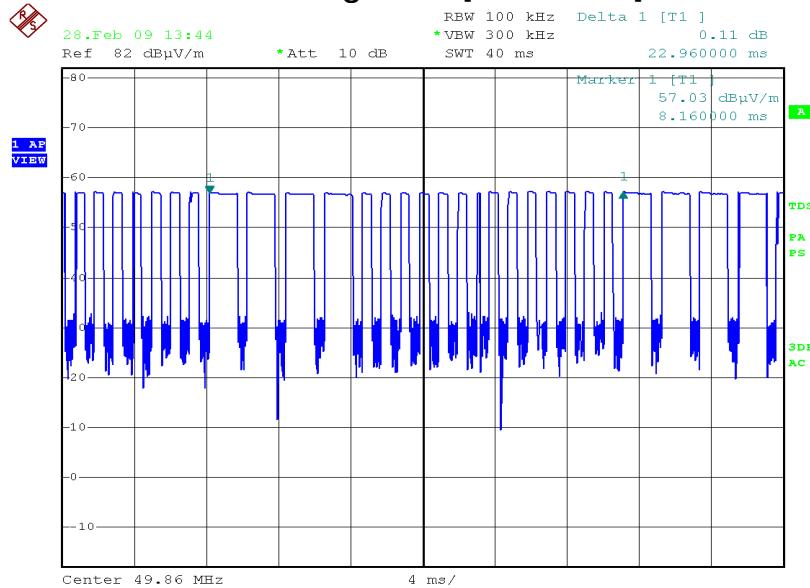
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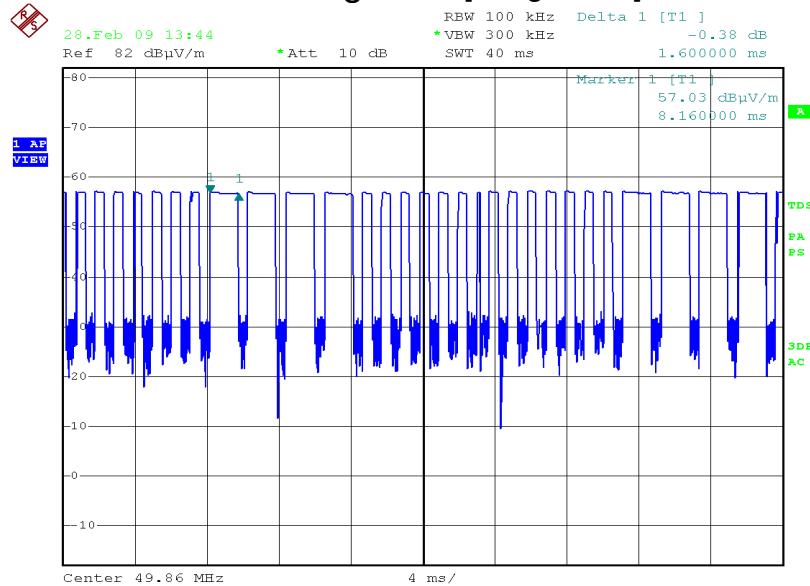
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Figure A [Pulse Train]



Date: 28.FEB.2009 13:44:27

Figure B [Long Pulse]



Date: 28.FEB.2009 13:44:56

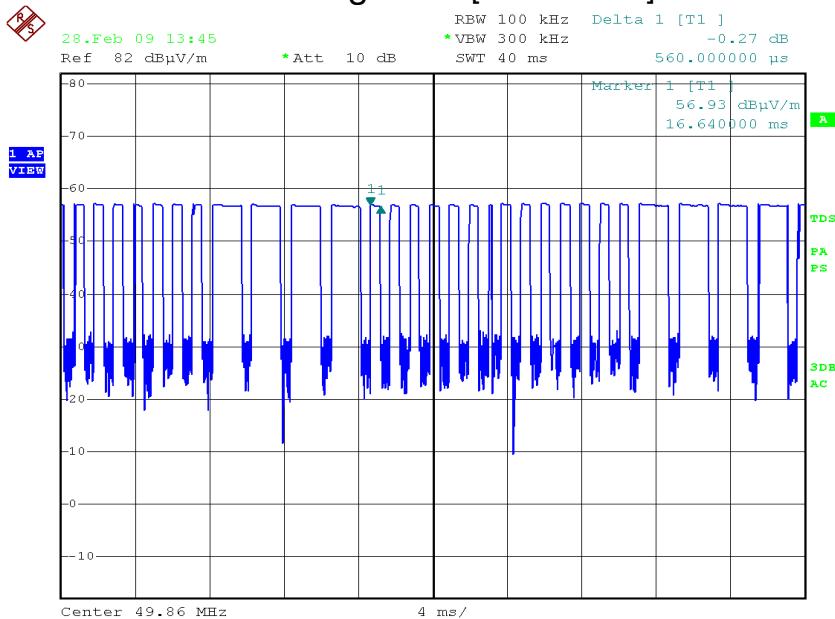
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Figure C [Short Pulse]



Date: 28.FEB.2009 13:45:28

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Photographs of EUT

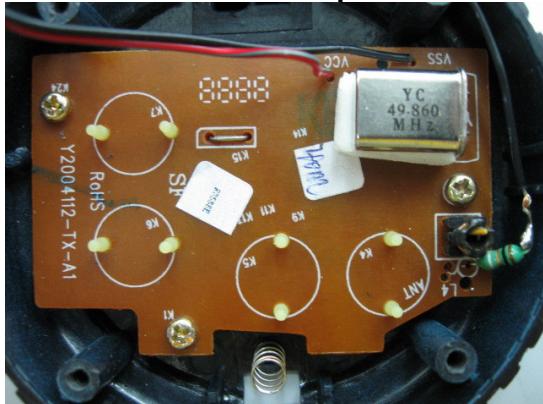
Front View of the product



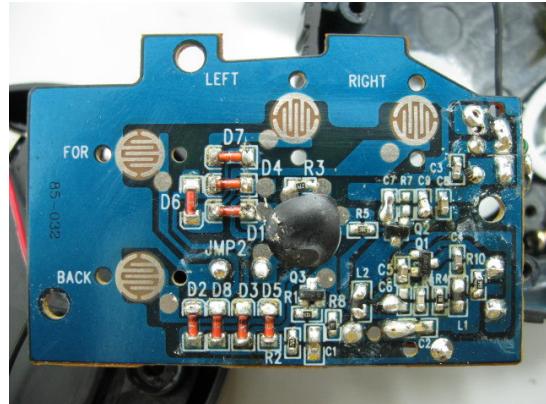
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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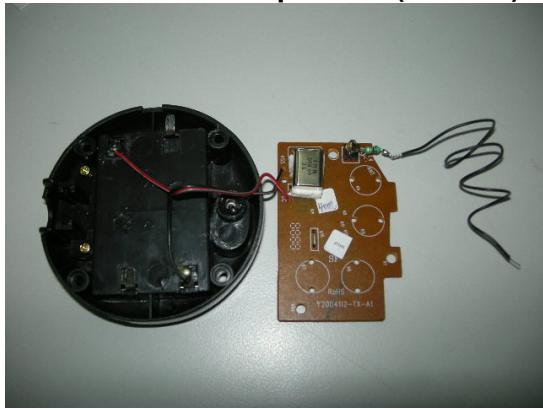
Battery compartment



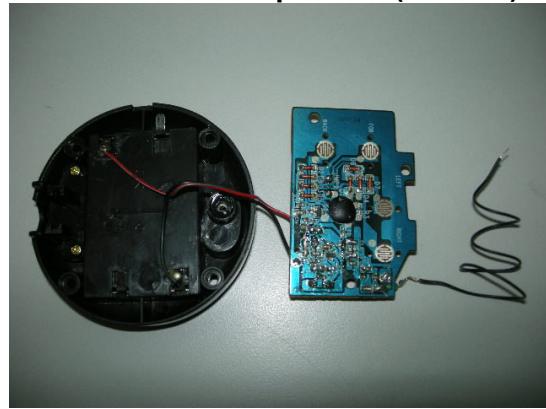
Battery Cover



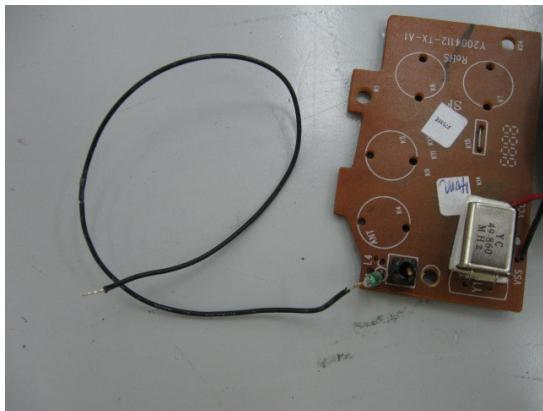
Front View of the product (Internal)



Rear View of the product (Internal)



Antenna



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TEST REPORT N°: BVCK09FE115MTHS

Measurement of Radiated Emission Test Set Up



***** End of Report *****

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