





ISO/IEC17025 Accredited Lab.

Report No: FCC0807202 File reference No: 2008-08-29

Applicant: Datel Design and Development, Inc

Product: Wireless Blade FX Controller

Model No: DUS0277

Brand Name: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: August 29, 2008

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.



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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Datel Design and Development, Inc

Address: Bldg3,Baozhou Ind ,Estate 117 Jiuwei Road ,Xixiang Bao'an Shenzhen 518126PRC China

Telephone: 727-431-0651 Fax: 727-431-0652

1.3 Description of EUT

Product: Wireless Blade FX Controller

Manufacturer: Maxwise Production Enterprise Limited

Brand Name: N/A

Model Number: DUS0277

Additional Model Name N/A
Additional Trade Name N/A

Rating: DC3.0V, 2 pcs AAA batteries

Modulation Type: GFSK

Operation Frequency 2402-2476MHz

Antenna Designation Printed antenna, which is built-in, designed as an indispensable part of the EUT.

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2008-07-20 to 2008-08-29

The report refers only to the sample tested and does not apply to the bulk.

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0	Test Equipments							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2007-12-05	2008-12-04			
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2007-12-05	2008-12-04			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2007-12-05	2008-12-04			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2007-12-05	2008-12-04			
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2007-12-05	2008-12-04			
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2008-04-26	2009-04-25			
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2008-02-18	2009-02-17			
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2008-02-18	2009-02-17			
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2008-02-18	2009-02-17			
System Controller	CT	SC100	-	2008-02-18	2009-02-17			
Printer	EPSON	РНОТО ЕХЗ	CFNH234850	2008-02-18	2009-02-17			
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2008-02-18	2009-02-17			
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2008-02-18	2009-02-17			
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-			
Oscillator	KENWOOD	AG-203D	3070002	2008-02-18	2009-02-17			

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			<u> </u>		
Spectrum Analyzer	HAMEG	HM5012	- -	2008-04-26	2009-04-25
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2008-02-18	2009-02-17
CDN	EM TEST	CDN M2/M3	-	2008-02-18	2009-02-17
Attenuation	EM TEST	ATT6/75	-	2008-02-18	2009-02-17
Resistance	EM TEST	R100	-	2008-02-18	2009-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2008-02-18	2009-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2008-02-18	2009-02-17
Power Amplifier	AR	150W1000	300999	2008-02-18	2009-02-17
Field probe	Holaday	HI-6005	105152	2008-02-18	2009-02-17
Bilog Antenna	Chase	CBL6111C	2576	2008-02-18	2009-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2008-02-18	2009-02-17
3m OATS			N/A	2008-02-18	2009-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2008-08-18	2009-08-17
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-04-26	2009-04-25

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3.0 **Technical Details**

3.1 **Summary of test results**

The EUT has been tested according to the following specifications	s:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 **Test Standards**

FCC Part 15 Subpart C, Paragraph 15.249

4.0 **EUT Modification**

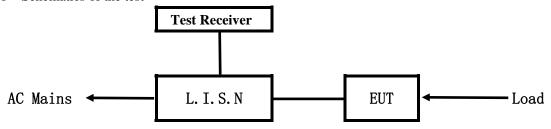
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

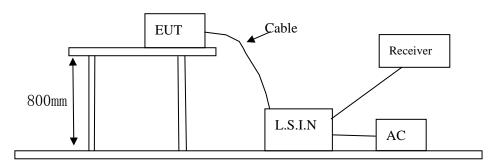


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Blade FX	Maxwise Production Enterprise Limited	DUS0277	WLE DUS0277M0003
Controller			

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Eraguangy(MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
5.00 ~ 30.00	73.0	60.0	60.0	50.0	

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Due to DC operation, this test item not applicable

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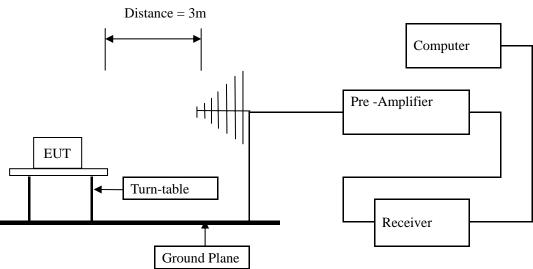
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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Ī	Fundamental Frequency	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
	(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK and AV detector.

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data \mathbf{A}

Product:	Wireless Blade FX Controller	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2402	94.7/82.7	Н	114/94	-19.3/-11.3
2402	98.2/85.1	V	114/94	-15.8/-8.9
4804	47.3/35.9	Н	74/54	-26.7/-18.1
4804	52.8/38.8	V	74/54	-21.2/-15.2
7206		H/V	74/54	
9608		H/V	74/54	
12010		H/V	74/54	
14412		H/V	74/54	
16814		H/V	74/54	
19216		H/V	74/54	
21618		H/V	74/54	
24020		H/V	74/54	

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Product:	Wireless Blade FX Controller	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2440	95.2/83.1	Н	114/94	-18.8/-10.9
2440	98.6/85.3	V	114/94	-15.4/-8.7
4880	53.3/40.2	Н	74/54	-20.7/-13.8
4880	57.8/44.5	V	74/54	-16.2/-9.5
7320		H/V	74/54	
9760		H/V	74/54	
12200		H/V	74/54	
14640		H/V	74/54	
17080		H/V	74/54	
19520		H/V	74/54	
21960		H/V	74/54	
24400		H/V	74/54	

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Product:	Wireless Blade FX Controller	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	3VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2476	92.1/79.4	Н	114/94	-21.9/-14.6
2476	95.0/82.2	V	114/94	-19.0/-11.8
4952	49.6/38.9	H/V	74/54	-24.4/-15.1
4952	54.5/42.8	H/V	74/54	-19.5/-11.2
7428		H/V	74/54	
9904		H/V	74/54	
12380		H/V	74/54	
14856		H/V	74/54	
17332		H/V	74/54	
19808		H/V	74/54	
22284		H/V	74/54	
24760		H/V	74/54	

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

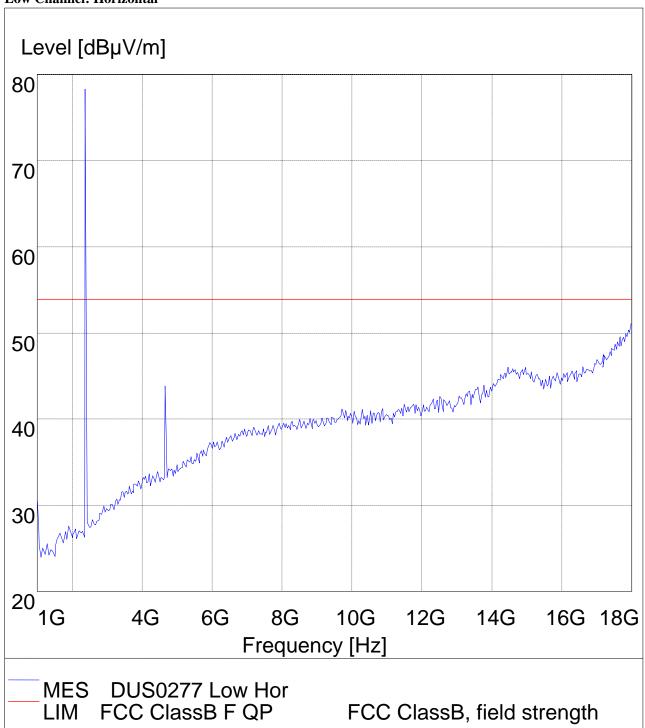
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Please refer to the following test plots for details

Low Channel: Horizontal



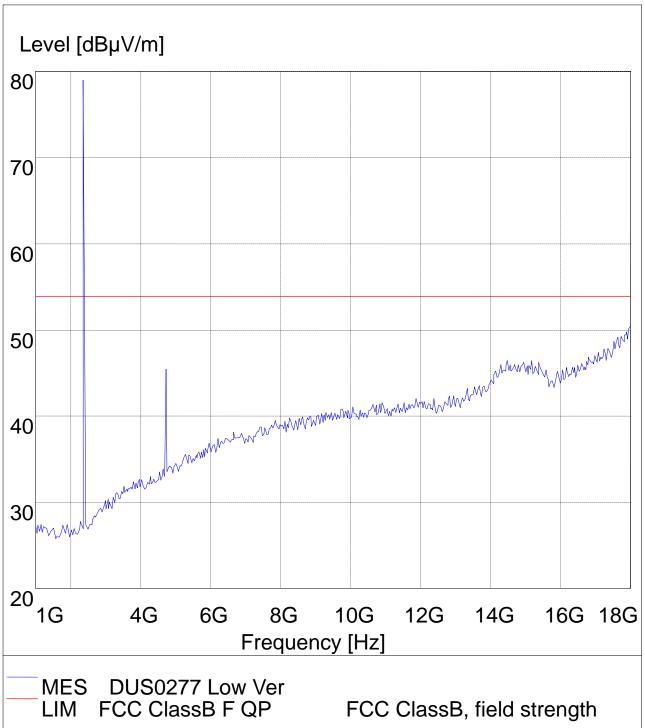
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Low Channel: Vertical

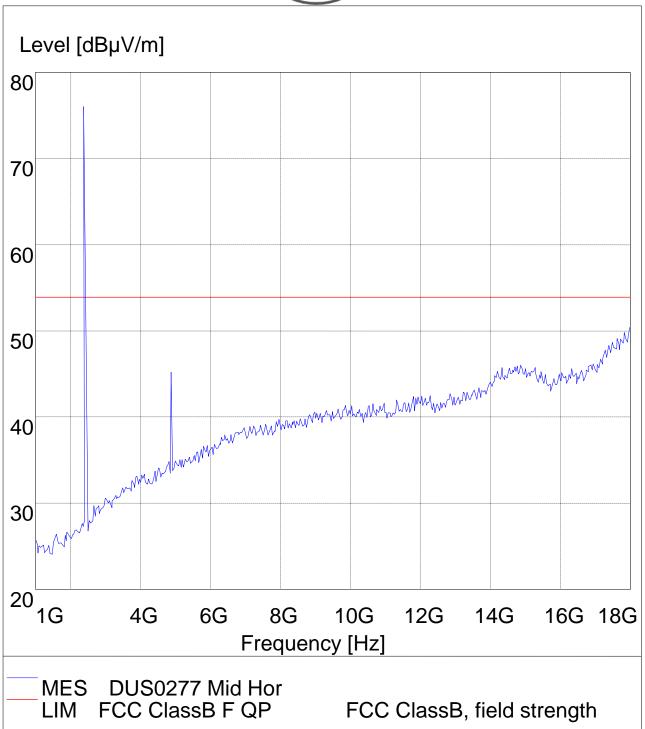


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Middle Channel: Horizontal

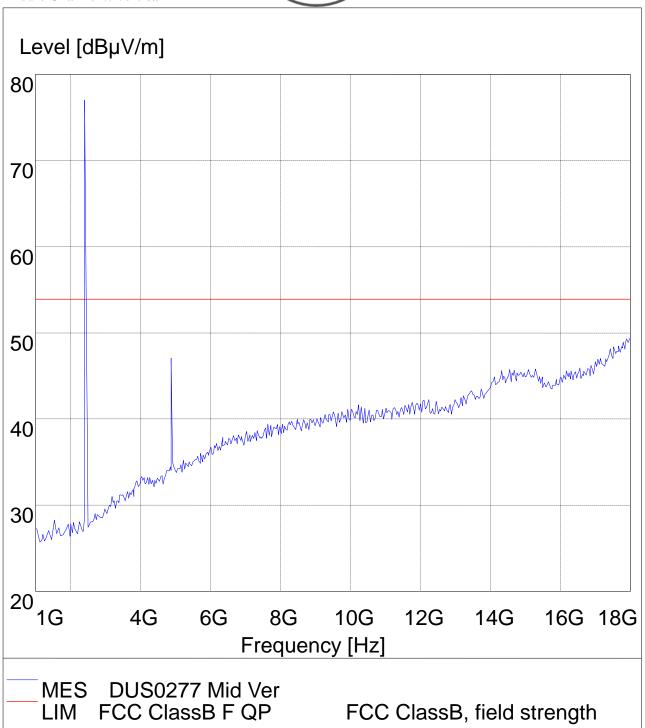


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Middle Channel :: Vertical



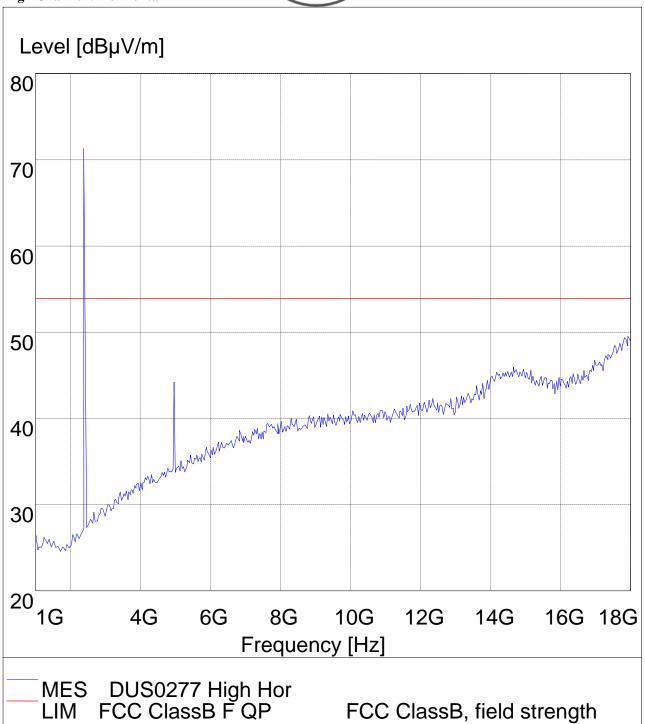
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High Channel: Horizontal

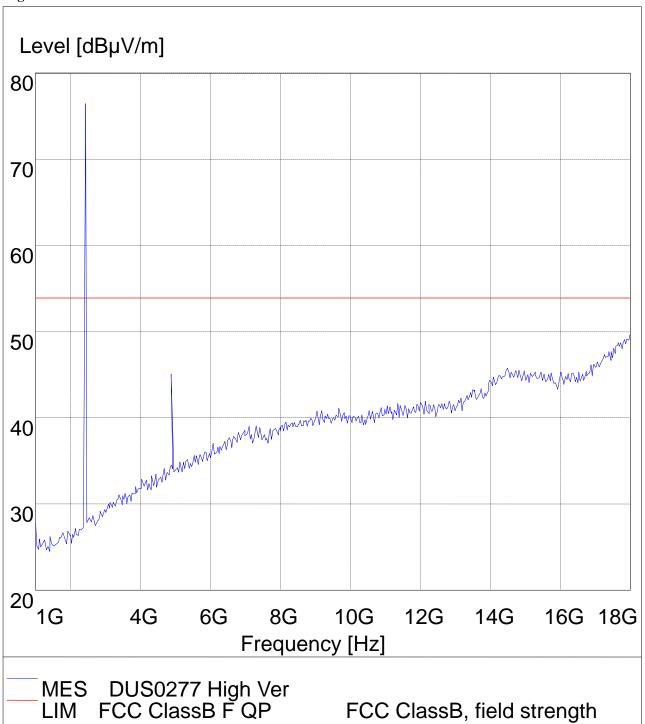


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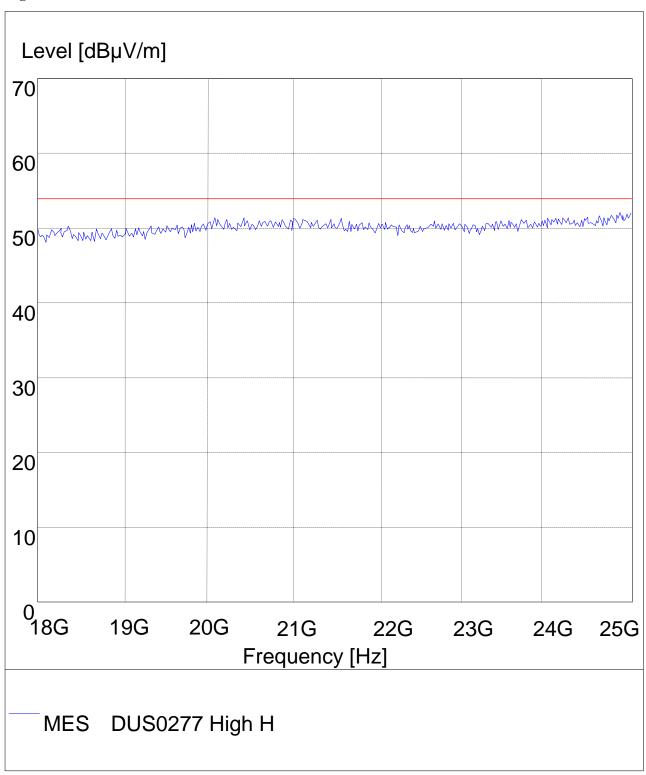
High Channel: Vertical



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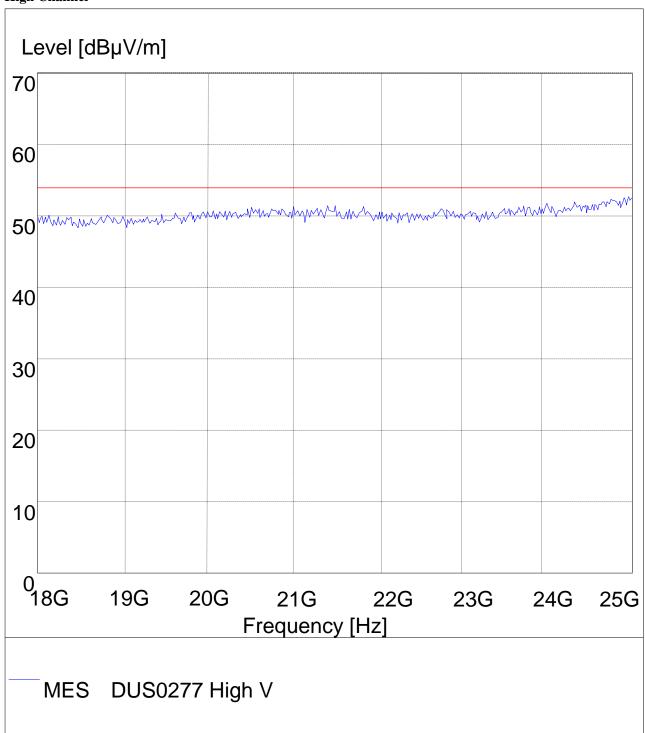
18-25G High Channel



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18-25G High Channel



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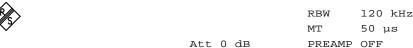
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

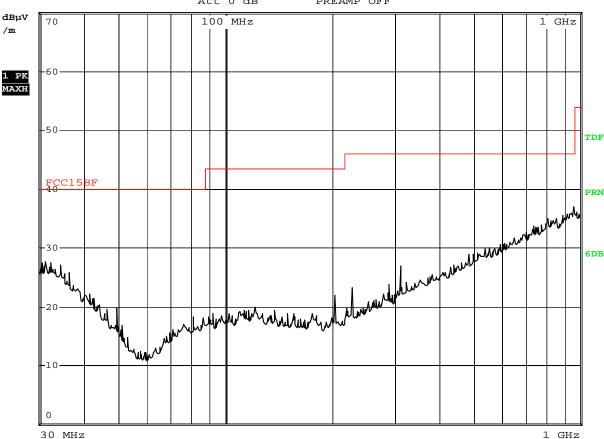
EUT set Condition: Keep Tx transmitting

Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



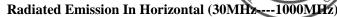


Date: 28.JUL.2008 10:58:39

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
		Н	

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EUT set Condition: Keep Tx transmitting

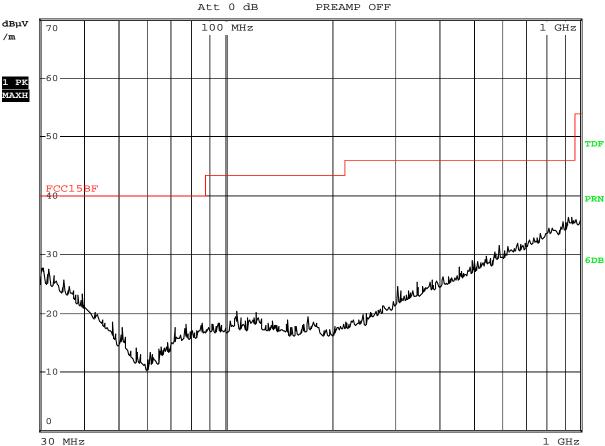
Mode: Low Channel

Results: Pass

Please refer to following diagram for individual

RBW 120 kHz MT50 μs PREAMP OFF





Date: 28.JUL.2008 10:57:47

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
		V	

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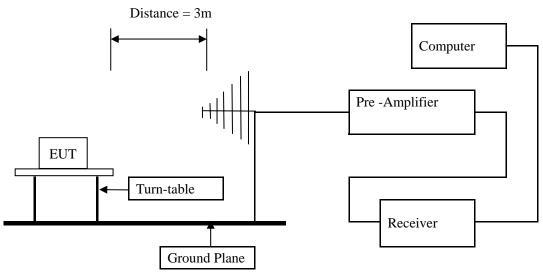


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=100kHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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 in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

	roduct:		W	/ireles	s Blac	de FX Co	ntroller		Tes	t Mode:			Low C	hannel	
	Mode Mode		**							Voltage		DC3V			
Temperature					Keeping Transmitting 24 deg. C,				Humidity			56% RH			
	st Result:					Pass			Detector			PK			
10.	st Kesuit.		DV (d D V		1	50.2		Detector						
24	2400MHz		$\frac{PK (dB\mu V/m)}{AV (dB\mu V/m)}$			37.5		Limit			74(dBμV/m)				
_			AV(C									54(dBμV/m)			
(1)	Daflul			Mark	er í	1 [T1]	:7 ap/		BW	100 k 100 k		RF	Att	10 dB	
•	Ref Lvl 107 dBμV				2		98.67 dB μ V .40214429 GHz		BW WT	28 m		Un i	i †	dBµ\	/
107				<u> </u>		. +021+-	1					 	1 (1	1
100										▼ 1	[T1]		98. محمل	67 dBμV	Α
100										∇2	[T1]		45.	00 dBµV	
90												2	. 39000		
90															
80													 \		
	1MAX														1MA
70												+			1
C.O.													/ \		
60															
												\mathcal{A}			
50											لہ 2	7			1
40										, M/W	M			Myn	
40	•) all on A	AMM^	~ ~	AN THE REST					
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30	McKhem M.	ali lo	<u> </u>	,,,,,,, ,											
20												\top			
10 7												_			1
<u> </u>	Start 2	. 3 :	1 GHz				1 1	MHz/				-	Stop 2	2.42 GHz	
Date	: 2	8.	JUL.2	1008	11:	24:50									
	_														

Note: Field Strength in restrict band measured in conventional manner

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Product: Wireless Blade FX Controller						Tes	t Mode:		High Channel			
Mode	Mode Keeping Transmitti		ting	Test V	Test Voltage		DC3V			DC3V		
Tempe	erature		24	deg. C,		Humio	Humidity			56% RH		
Tes	st Result:			Pass		De	Detector		PK			
2483.5MHz		PK ((dBµV/m)		51.2		imit		74(dB _j	ιV/m)		
240	SS.JWITZ	AV(dBμV/m)	38.6		1	Limit		54(dB _l	ιV/m)		
Ŕ			Marker	1 [T1]		RBW	100 kH	tz RI	F Att	10 dB		
Ref Lvl					$5 \text{ dB}\mu\text{V}$	VBW	100 kH					
107	107 dB μ	V	2	.476052	10 GHz	SWT	12.5 ms	s Ui	nit	dBμV		
100						1	v ₁	[T1]	97.	15 dBμV	Α	
90						Ň	∇2	[T1]	1	49 dBμV 000 GHz		
80												
70	1MAX					3					1MA	
60												
50					الممري							
		At	members L	MANA AMA	م ا		S S S S S S S S S S S S S S S S S S S	~~WWW.		_		
	mmm	Port							whome	mylw		
30												
20												
10 7												
Date:	Start 2. : 28	45 GHz 3.JUL.2		:28:28	5 M	lHz/			Stop	2.5 GHz		

Note: Field Strength in restrict band measured in conventional manner

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8.0 Antenna Requirement

Applicable Standard

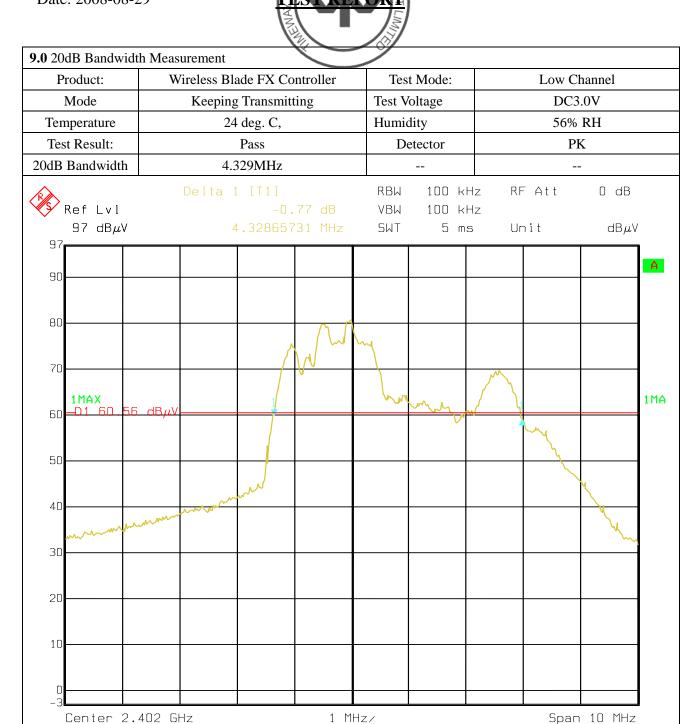
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB permanent antenna, fulfill the requirement of this section.

Test Result: Pass

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12:52:58

29.AUG.2008

Date:

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Span 10 MHz

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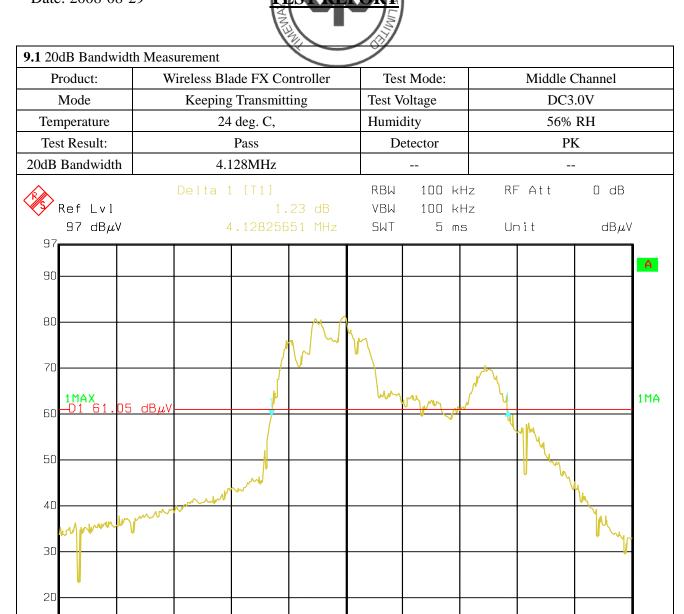
10

Date:

Center 2.44 GHz

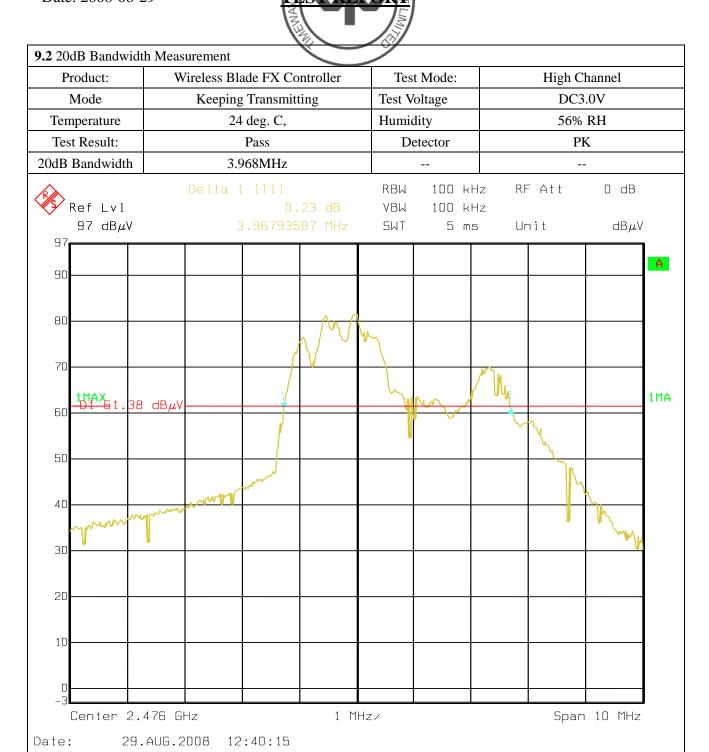
29.AUG.2008

12:56:06



The report refers only to the sample tested and does not apply to the bulk.

1 MHz/



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10.0 FCC ID Label

FCC ID: WLEDUS0277M0003

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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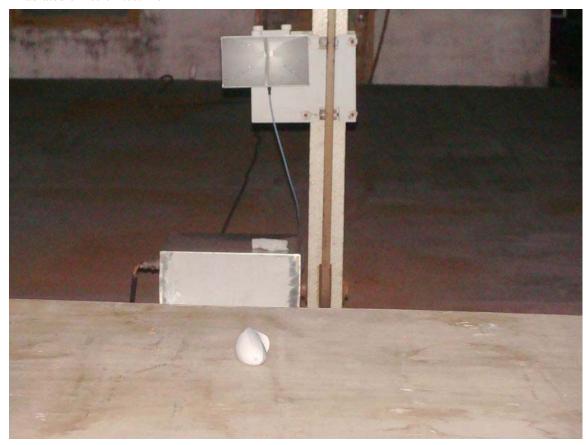


11.0 Photo of testing

11.1 Conducted test View--

N/A

11.2 Radiated emission test view



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11.3 Photo for the EUT

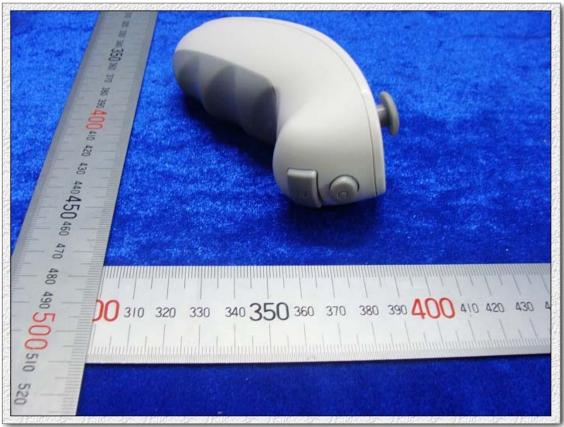
Outside View



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DSC-H10 F3.5 1/13s ISO 400

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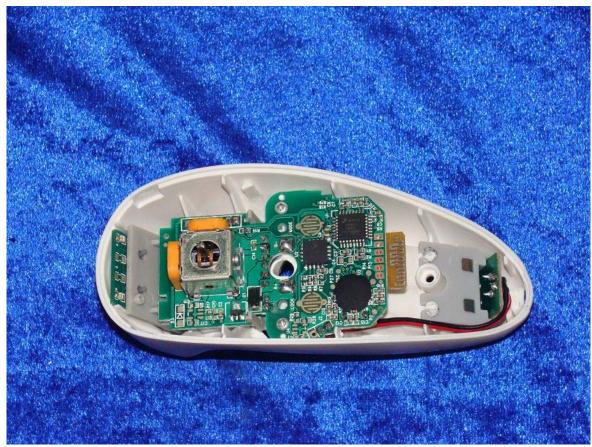




DSC-H10 F3.5 1/8s ISO 400

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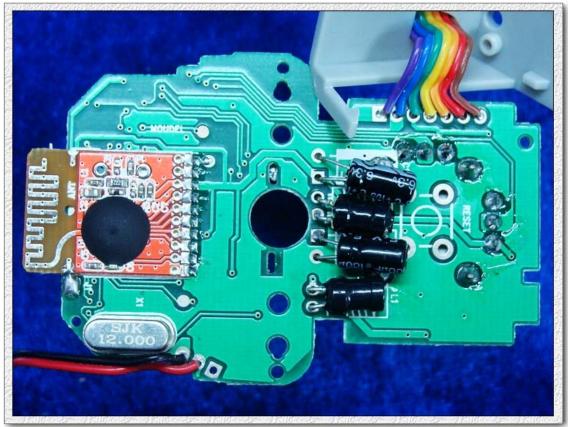


DSC-H10 F3.5 1/4s ISO 400

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DSC-H10 F4.0 1/8s ISO500

-- End of the report--