



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3100324-01076-O



CENTRE OF TESTING SERVICE CO., LTD.

Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.



TEST REPORT For FCC ID	
47 CFR PART 15 OCT, 2009	
Report Reference No.	CGZ3100324-01076-O
Date of issue	06 May 2010
Testing Laboratory Name	CETRE OF TESTING SERVICE CO., LTD
Address	Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	Datel Design & Development, inc.
Address	33 N. Garden Avenue Suite 900 Clearwater, FL 33755 United States.
Test specification	
Standard	47 CFR PART 15 OCT, 2009
Test Report Form No.	CTSEMC-1.0
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD
Master TRF	Dated 2009-01
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Test item description	PS3 compatible wireless controller
Trade Mark	/
Manufacturer	Datel Design & Development, inc.
Model/Type reference	ER000224
Ratings	2xStandard AA Batteries or 2xRechargeable AA Batteries
Operating Frequency	2402.00~2480.00MHz/ GFSK
Result	Positive

Compiled by:

Quty Liu / File administrators

Supervised by:

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Approved by:

Kevin Liang / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. : CGZ3100324-01076-O06 May 2010
Date of issue

Type / Model..... ER000224

EUT..... PS3 compatible wireless controller

Applicant..... Datel Design & Development, inc.

Address..... 33 N. Garden Avenue Suite 900 Clearwater, FL 33755 United States.

Telephone..... +(727) 431-0651

Fax..... /

Contact..... Mr Kenneth J Tarolla

Manufacturer..... Datel Design & Development, inc.

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Contact..... Mr Kenneth J Tarolla

Test report holder..... Datel Design & Development, inc.

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Fax..... /

Contact..... Mr Kenneth J Tarolla

Test Result according to the standards on page 3: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1. TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2009
- ANSI C63.4-2009

2. SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	29 March 2010
Testing commenced on	30 March 2010
Testing concluded on	06 May 2010

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- ☐ - **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 3.
- ☐ - **does not** fulfil the FCC requirements cited on page 3.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ 2xStandard AA Batteries or 2xRechargeable AA Batteries

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- ☐ - Standby
- - Test program (customer specific)

Operation mode 1: Low (2402MHz) , Mid (2440MHz), High (2480MHz)

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	PS3 compatible wireless controller
Model Number	:	ER000224
Operation frequency	:	2402~2480MHz ISM Band
Radio Technology	:	HFSS
Modulation Technology	:	GFSK modulation
Antenna	:	Integral antenna, met requirement of FCC 15.203
Antenna Assembly Gain	:	2.0dBi (maximum)

3.4.2. Tested Supporting System Details

Name	6.4 " Colour LCD Monitor
M/N	JV-A688
S/N	N/A
Manufacturer	JEJA
Power Cord	Unshielded, Detachable, 1.8m , 2Pin
Data Cable	Unshielded, Detachable, 1.8m
Certificate	By VoC

Name	PS3 System
M/N	CECH-2003B
S/N	N/A
Manufacturer	Sony
Power Cord	Unshielded, Detachable, 1.5m, 2Pin
Certificate	By CoC

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4. TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

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4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 24, 2009 .

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, 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.791995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	$\pm 1.22\text{dB}$	(1)
Power disturbance	30MHz~300MHz	$\pm 1.38\text{dB}$	(1)
Radiation emission (3m)	30MHz~300MHz	$\pm 3.14\text{dB}$	(1)
	300MHz~1000MHz	$\pm 3.18\text{dB}$	(1)

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

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15 C: 15.207 ANSI C63.4-2009	PASSED
Radiated Emission Test	FCC Part 15 C: 15.209 ANSI C63.4-2009	PASSED
Carrier Frequency Separation Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
20 dB Bandwidth Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
Number Of Hopping Frequency Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
Dwell Time Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
Maximum Peak Output Power Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
Band Edge Compliance Test	FCC Part 15 C: 15.247 ANSI C63.4-2009	PASSED
MPE ESTIMATION	FCC Part 2: 2.1093	PASSED
N/A is an abbreviation for Not Applicable.		

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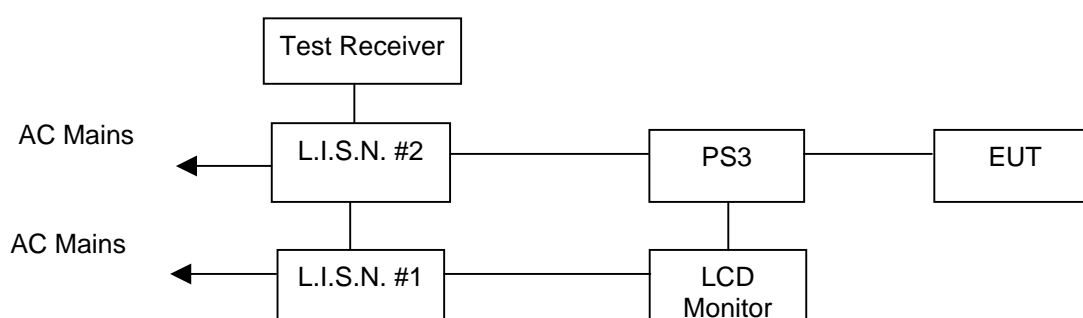
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6. Power Line Conducted Emission Test

6.1. Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2009/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2009/12
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2009/12
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2009/12
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2009/12

6.2. Block Diagram of Test Setup



(EUT: PS3 compatible wireless controller)

6.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

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

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

6.4. Test Procedure

The EUT Via XBOX Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS 10) is set at 10kHz.

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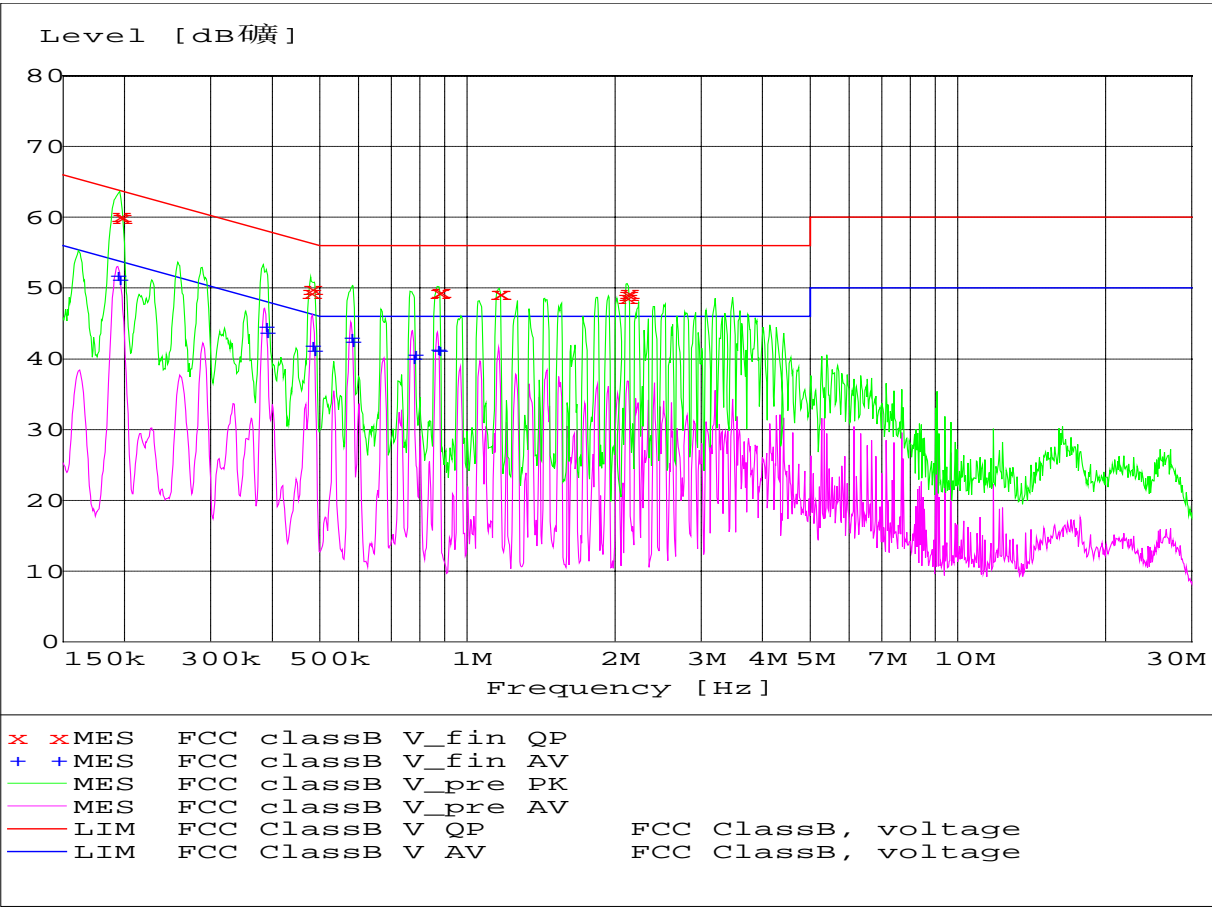


6.5. Power Line Conducted Emission Test Results

PASSED.

Channel:	TX Mode	Result:	■ - passed
Test point:	Va		□ - not passed
Frequency range:	0.15~30MHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224



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**MEASUREMENT RESULT: "FCC classB V_fin QP"**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.195212	60.30	10.2	64	3.6	Va	GND
0.195993	60.00	10.2	64	3.9	Va	GND
0.477382	49.40	10.1	56	7.0	Va	GND
0.481209	49.90	10.1	56	6.5	Va	GND
0.872277	49.40	10.1	56	6.6	Va	GND
0.875766	49.50	10.1	56	6.5	Va	GND
1.158114	49.30	10.1	56	6.7	Va	GND
1.162746	49.30	10.1	56	6.7	Va	GND
2.107697	48.70	10.1	56	7.3	Va	GND
2.116131	49.00	10.1	56	7.0	Va	GND
2.124593	49.40	10.1	56	6.6	Va	GND
2.124595	49.40	10.1	56	6.6	Va	GND

MEASUREMENT RESULT: "FCC classB V_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.192888	51.80	10.2	54	3.1	Vb	GND
0.194435	51.20	10.2	54	3.8	Vb	GND
0.386342	44.50	10.1	48	3.5	Vb	GND
0.387888	43.70	10.1	48	4.3	Vb	GND
0.481207	41.90	10.1	46	4.1	Vb	GND
0.485065	41.20	10.1	46	4.8	Vb	GND
0.575904	43.00	10.1	46	3.0	Vb	GND
0.580521	42.50	10.1	46	3.5	Vb	GND
0.773824	40.00	10.1	46	6.0	Vb	GND
0.776919	40.60	10.1	46	5.4	Vb	GND
0.865348	41.40	10.1	46	4.6	Vb	GND
0.872284	41.10	10.1	46	4.9	Vb	GND

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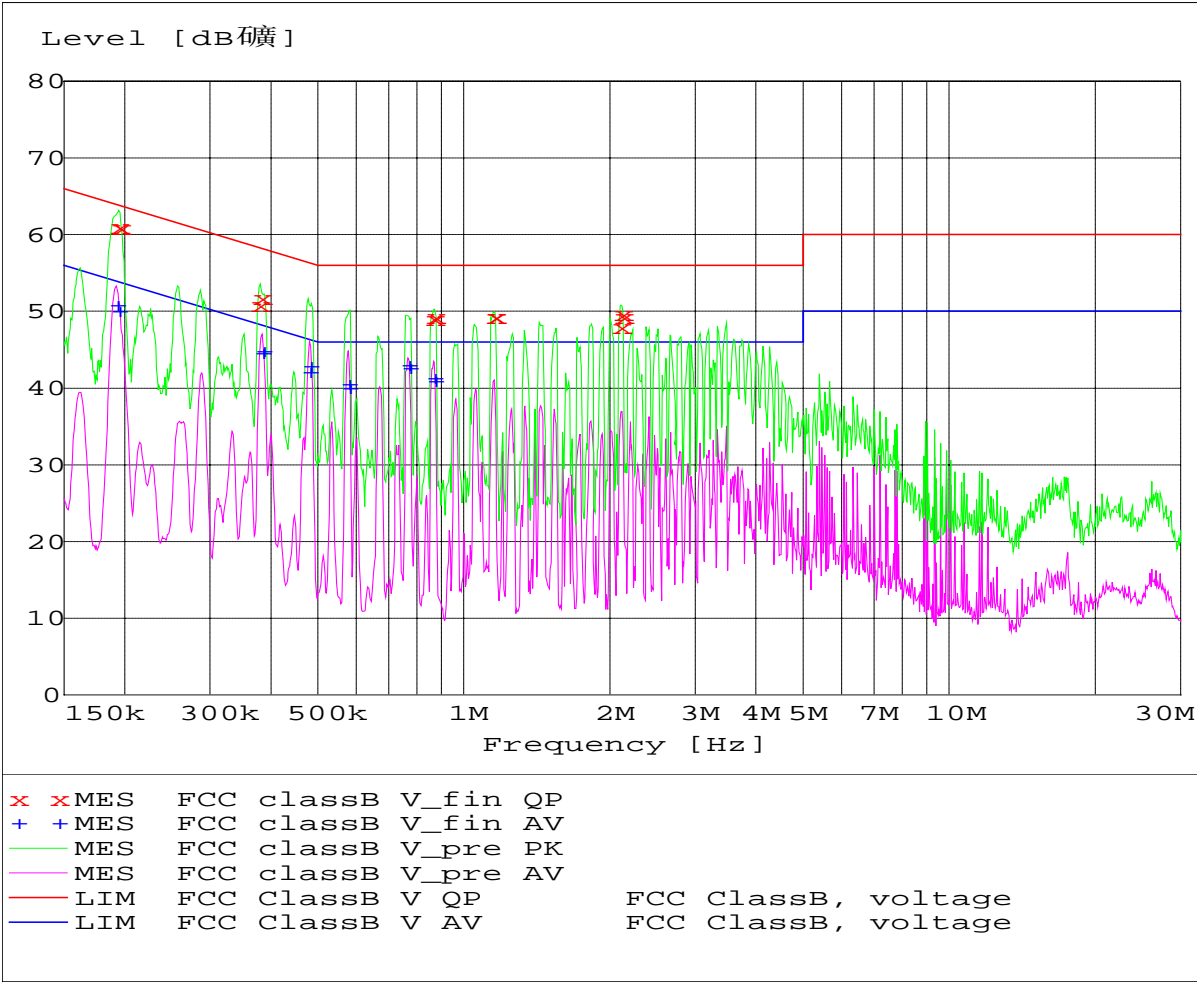
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Channel:	TX Mode	Result:	■ - passed
Test point:	Vb		□ - not passed
Frequency range:	0.15~30MHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224



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**MEASUREMENT RESULT: "FCC classB V_{fin} QP"**

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.193662	61.00	10.2	64	2.9	Vb	GND
0.195214	60.90	10.2	64	4.0	Vb	GND
0.378709	50.80	10.1	58	7.5	Vb	GND
0.381745	51.80	10.1	58	6.4	Vb	GND
0.865348	49.00	10.1	56	7.0	Vb	GND
0.868809	49.20	10.1	56	6.8	Vb	GND
1.153496	49.20	10.1	56	6.8	Vb	GND
1.158110	49.20	10.1	56	6.8	Vb	GND
2.099304	48.00	10.1	56	8.0	Vb	GND
2.116131	49.70	10.1	56	6.3	Vb	GND
2.116132	49.70	10.1	56	6.3	Vb	GND
2.124595	49.30	10.1	56	6.7	Vb	GND

MEASUREMENT RESULT: "FCC classB V_{fin} AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.192118	50.80	10.2	54	3.2	Vb	GND
0.193660	50.10	10.2	54	3.9	Vb	GND
0.383268	44.60	10.1	48	3.4	Vb	GND
0.384801	44.80	10.1	48	3.2	Vb	GND
0.479290	42.10	10.1	46	3.9	Vb	GND
0.481207	42.90	10.1	46	3.1	Vb	GND
0.575904	40.60	10.1	46	5.4	Vb	GND
0.578208	40.00	10.1	46	6.0	Vb	GND
0.767675	43.00	10.1	46	3.0	Vb	GND
0.770745	42.60	10.1	46	3.4	Vb	GND
0.865341	41.30	10.1	46	4.7	Vb	GND
0.868803	40.90	10.1	46	5.1	Vb	GND

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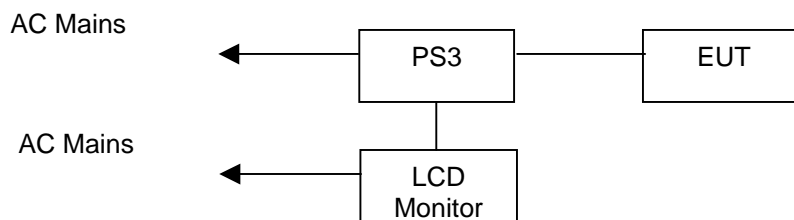
7. Radiated disturbance (electric field)

7.1. Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2009/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2009/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2009/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2009/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2009/12

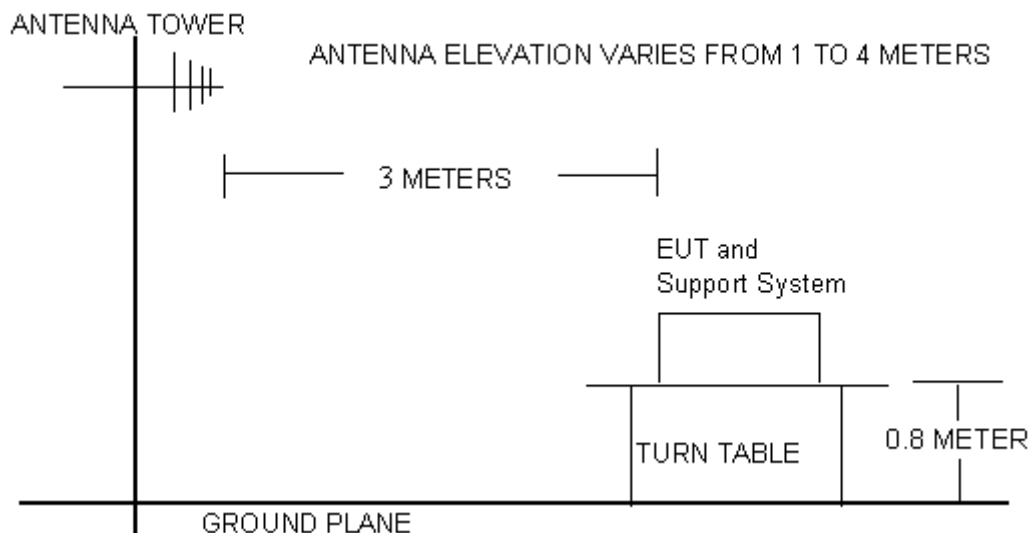
7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



(EUT: PS3 compatible wireless controller)

7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit Standard: FCC 15.247

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark:
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1 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 polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,



All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

PASSED.

The frequency range from 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated.
Please see the following pages.

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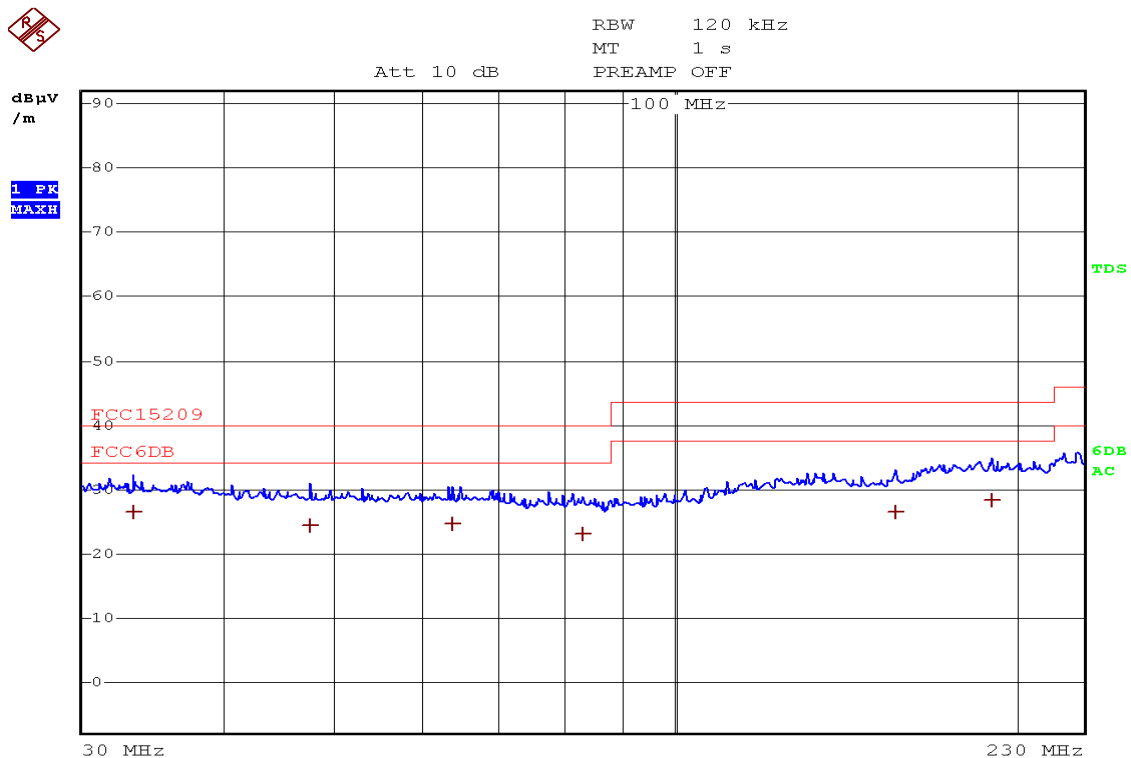
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Channel:	TX Mode	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15209			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA	LIMIT dB
1 Quasi Peak	33.32 MHz	26.41	-13.58	
1 Quasi Peak	47.68 MHz	24.49	-15.50	
1 Quasi Peak	63.64 MHz	24.58	-15.41	
1 Quasi Peak	83.16 MHz	23.18	-16.81	
1 Quasi Peak	156.92 MHz	26.59	-16.91	
1 Quasi Peak	190.36 MHz	28.33	-15.17	

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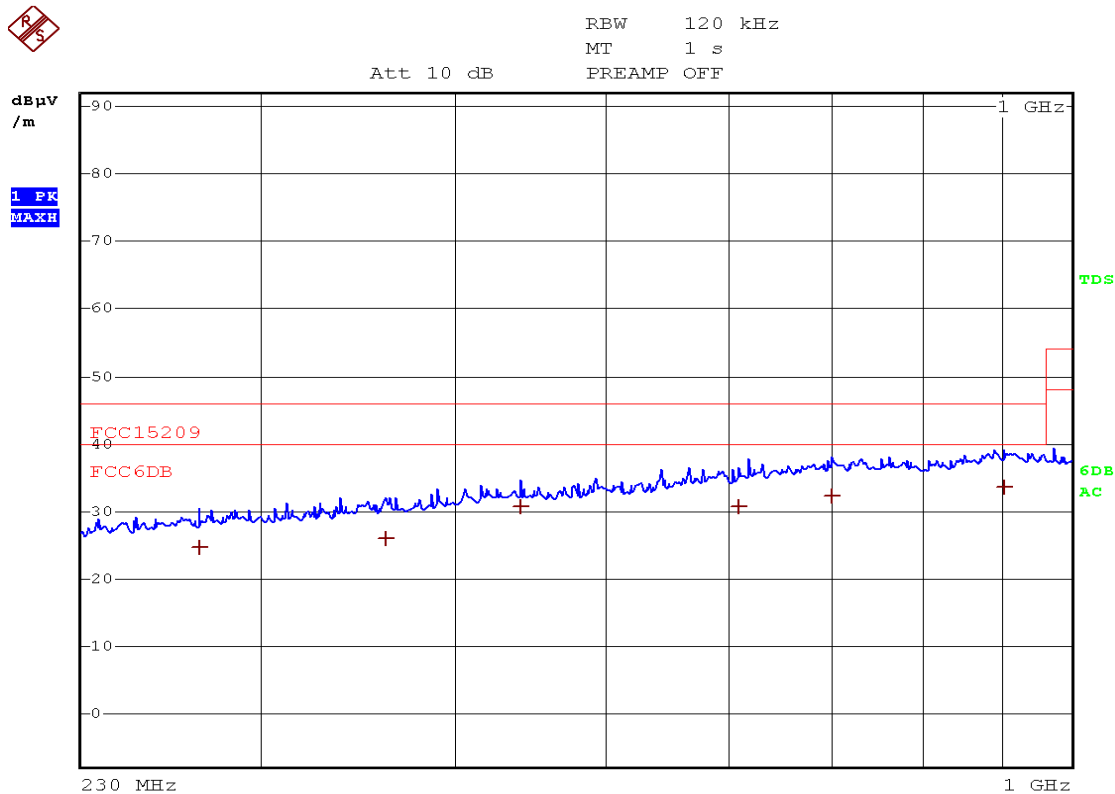
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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15209			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB	
1 Quasi Peak	274.72 MHz	24.66	-21.34	
1 Quasi Peak	361.56 MHz	26.07	-19.93	
1 Quasi Peak	441.96 MHz	30.82	-15.17	
1 Quasi Peak	610.52 MHz	30.79	-15.20	
1 Quasi Peak	700.6 MHz	32.32	-13.67	
1 Quasi Peak	904.24 MHz	33.52	-12.47	

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss



Channel:	Low 2402MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1205.9	43.2	54.0	54	74	10.8	20
2010.6	46.1	57.8	54	74	7.9	16.2
4803.7	44.2	55.7	54	74	9.8	18.3
6381.4	46.8	56.9	54	74	7.2	17.1
7205.5	42.6	53.4	54	74	11.4	20.6
8321.5	42.3	52.9	54	74	11.7	21.1

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

Channel:	Mid 2440MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1207.1	44.9	54.2	54	74	9.1	19.8
2008.4	46.9	57.3	54	74	7.1	16.7
4881.8	44.8	54.7	54	74	9.2	19.3
6380.0	46.0	57.5	54	74	8	16.5
7322.7	44.2	56.3	54	74	9.8	17.7
8349.1	42.7	53.4	54	74	11.3	20.6

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

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Channel:	High 2480MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	1GHz-26.5GHz		

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1207.5	43.8	54.2	54	74	10.2	19.8
2011.2	45.7	56.9	54	74	8.3	17.1
4960.3	45.1	56.2	54	74	8.9	17.8
6380.4	45.3	56.9	54	74	8.7	17.1
7440.5	42.4	53.1	54	74	11.6	20.9
8324.5	43.6	54.8	54	74	10.4	19.2

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

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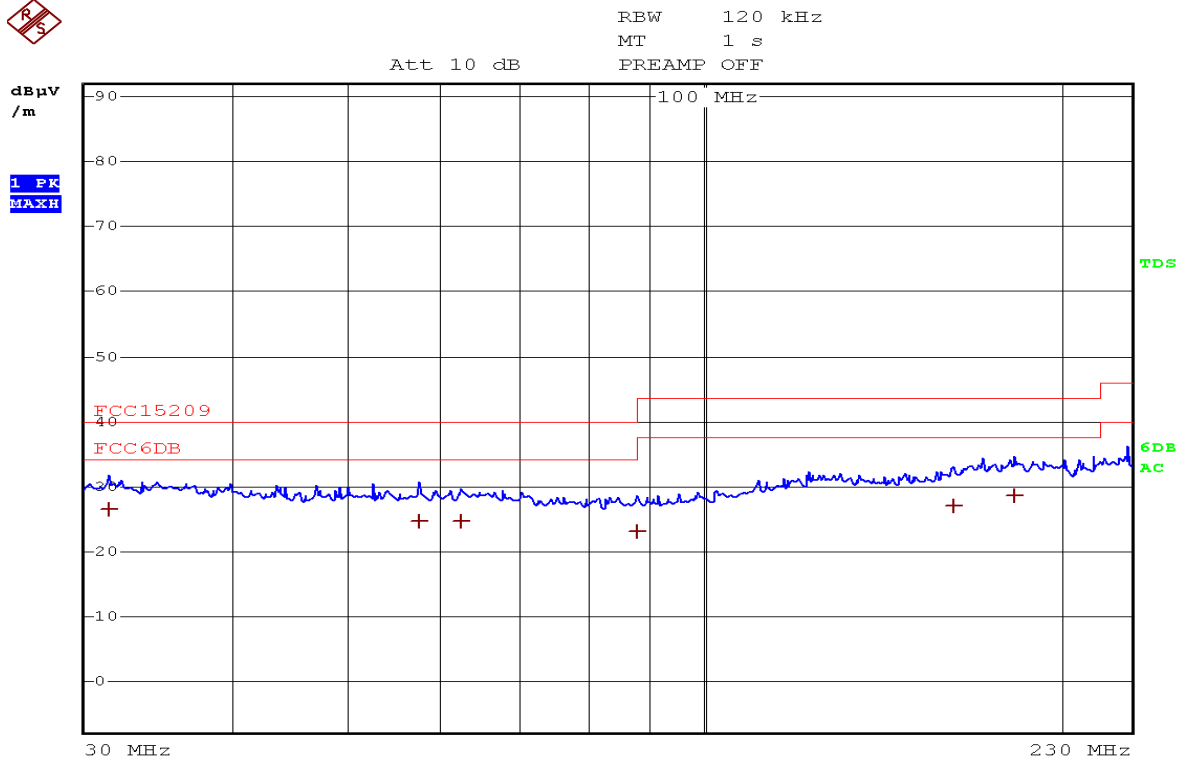
E-mail: cts@cts-lab.com.cn

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Channel:	TX Mode	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	30-230MHz and 230-1000MHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15209			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA	LIMIT dB
1 Quasi Peak	31.44 MHz	26.57	-13.42	
1 Quasi Peak	57.44 MHz	24.54	-15.45	
1 Quasi Peak	62.4 MHz	24.60	-15.40	
1 Quasi Peak	87.8 MHz	23.10	-16.89	
1 Quasi Peak	162.32 MHz	27.13	-16.36	
1 Quasi Peak	182.76 MHz	28.50	-14.99	

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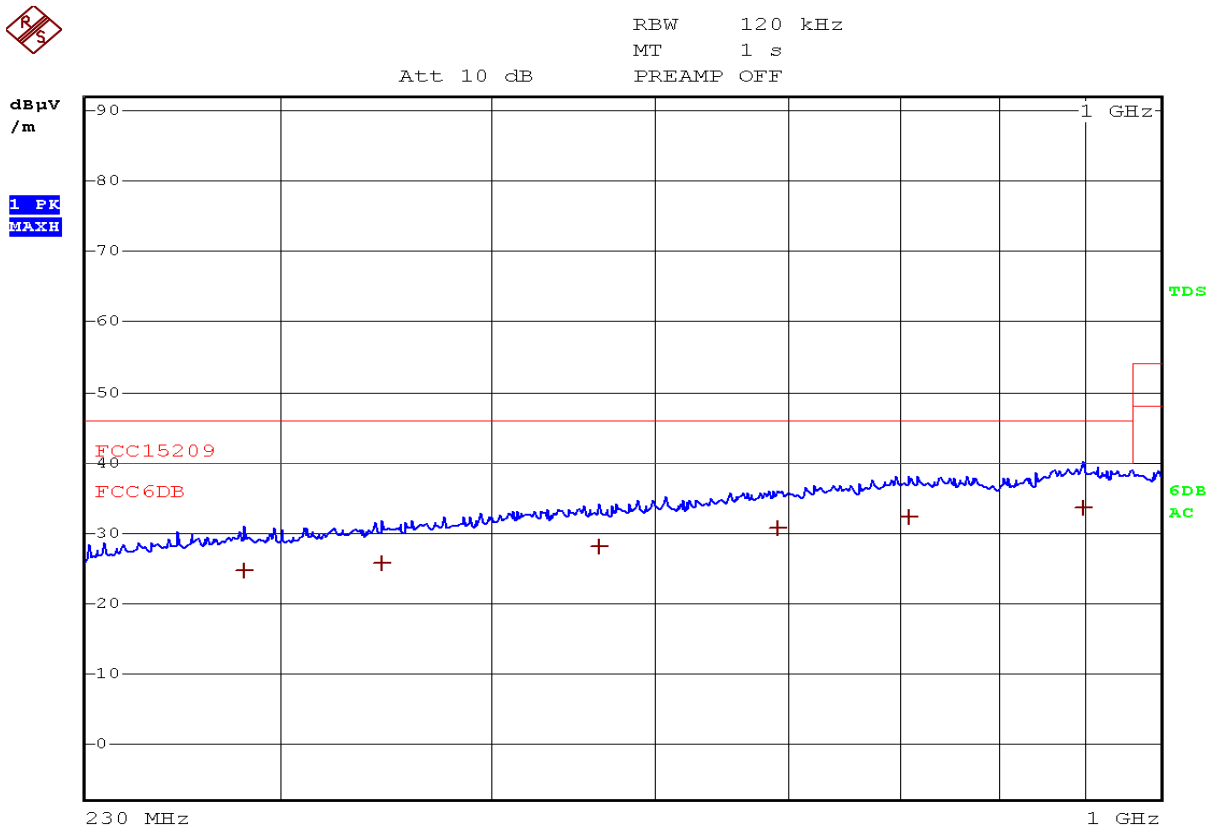
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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	FCC15209			
Trace2:	---			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB	
1 Quasi Peak	285.6 MHz	24.59	-21.40	
1 Quasi Peak	344.88 MHz	25.77	-20.23	
1 Quasi Peak	464.24 MHz	28.18	-17.81	
1 Quasi Peak	593.04 MHz	30.72	-15.27	
1 Quasi Peak	707.92 MHz	32.39	-13.60	
1 Quasi Peak	899.88 MHz	33.60	-12.40	

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss



Channel:	Low 2402MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1G-26.5GHz		

EUT	PS3 compatible wireless controller
Firm Name	Datel Design & Development, inc.
Operating Condition	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	30 March~30 April 2010
Operator	Jackson
MODEL NO	ER000224

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit[dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1205.4	44.5	54.5	54	74	9.5	19.5
2010.5	46.9	58.1	54	74	7.1	15.9
4803.6	45.4	56.4	54	74	8.6	17.6
6382.4	47.1	57.3	54	74	6.9	16.7
7205.5	43.5	54.1	54	74	10.5	19.9
8321.9	43.9	54.6	54	74	10.1	19.4

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

Channel:	Mid 2440MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1G-26.5GHz		

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1206.9	45.2	56.4	54	74	8.8	17.6
2007.2	47.1	57.6	54	74	6.9	16.4
4881.8	45.9	55.8	54	74	8.1	18.2
6379.5	47.2	58.1	54	74	6.8	15.9
7322.7	45.3	55.9	54	74	8.7	18.1
8348.7	43.1	54.6	54	74	10.9	19.4

Note: 1. Emission level=Read level + Factor
2. Factor=Antenna factor + Cable loss

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Channel:	High 2480MHz	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Vertical		<input type="checkbox"/> - not passed
Frequency range:	1G-26.5GHz		

Frequency [MHz]	Result [dBμV]		Limit [dBμV]		Dlimit [dBμV]	
	Average	Peak	Average	Peak	Average	Peak
1207.9	44.5	55.1	54	74	9.5	18.9
2012.7	45.4	57.2	54	74	8.6	16.8
4960.2	44.8	56.8	54	74	9.2	17.2
6382.1	45.6	56.6	54	74	8.4	17.4
7205.5	44.5	55.0	54	74	9.5	19
8337.2	44.9	55.7	54	74	9.1	18.3

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8. Carrier frequency separation test

8.1. Test Equipment

Carrier frequency separation test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

8.2. Test Information

EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2402MHz Mid: 2440MHz High: 2480MHz ,
Test Date:	30 March~30 April 2010
Test By:	Jackson

8.3. Test Results

PASSED.

The testing data was attached in the next pages.

CH	Channel separation (kHz)	Limit	Conclusion
(Low)	1004	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASSED
(Mid)	1000	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASSED
(High)	1004	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASSED

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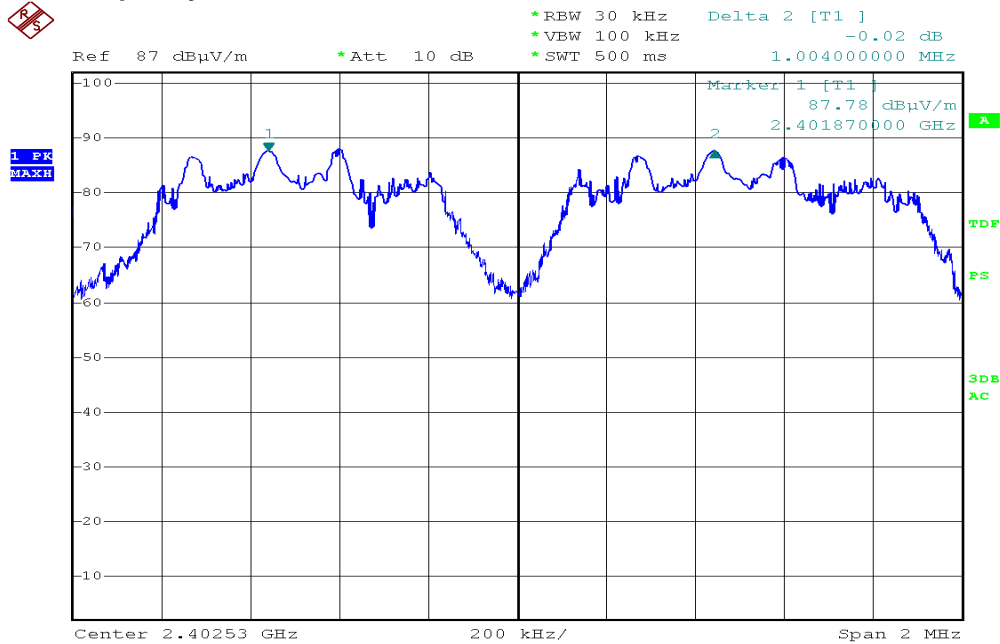
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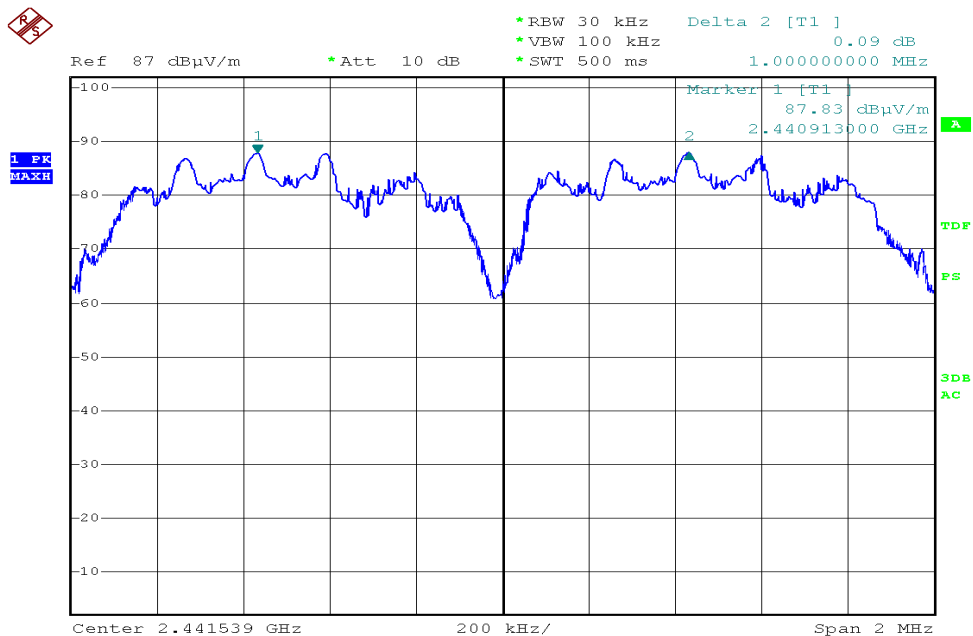


Test frequency:2402MHz



Date: 28.APR.2010 11:38:22

Test frequency:2440MHz



Date: 28.APR.2010 12:19:55

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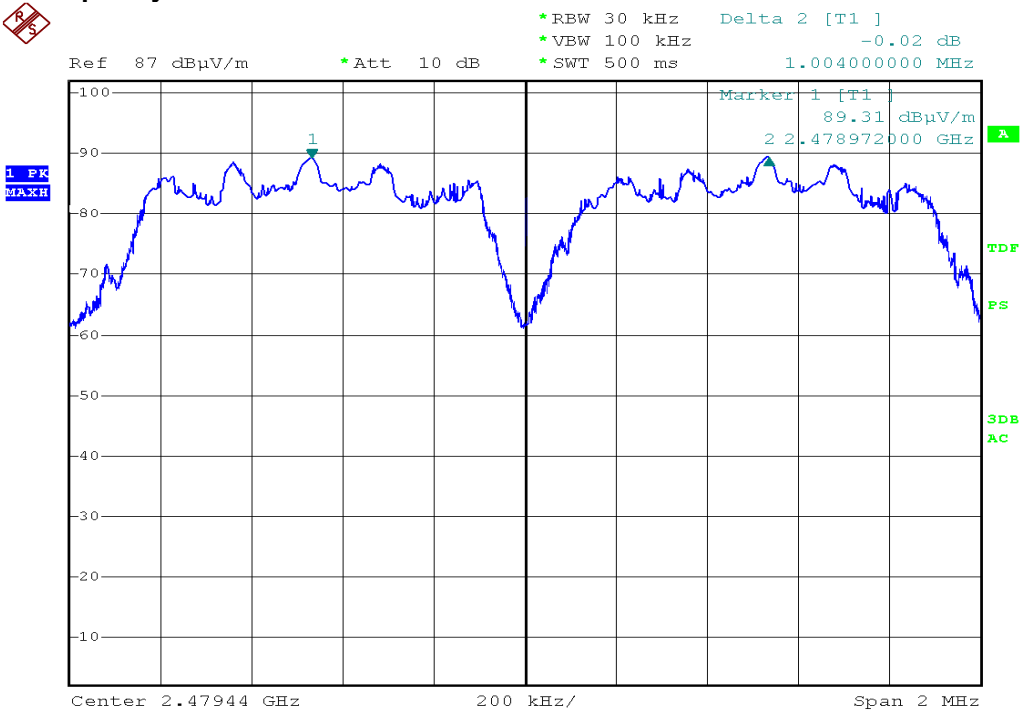
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Test frequency:2480MHz



Date: 28.APR.2010 13:46:46

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9.20 dB Bandwidth test

9.1. Test Equipment

20 dB Bandwidth test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

9.2. Test Information

EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2402MHz Mid: 2440MHz High: 2480MHz ,
Test Date:	30 March~30 April 2010
Test By:	Jackson

9.3. Test Results

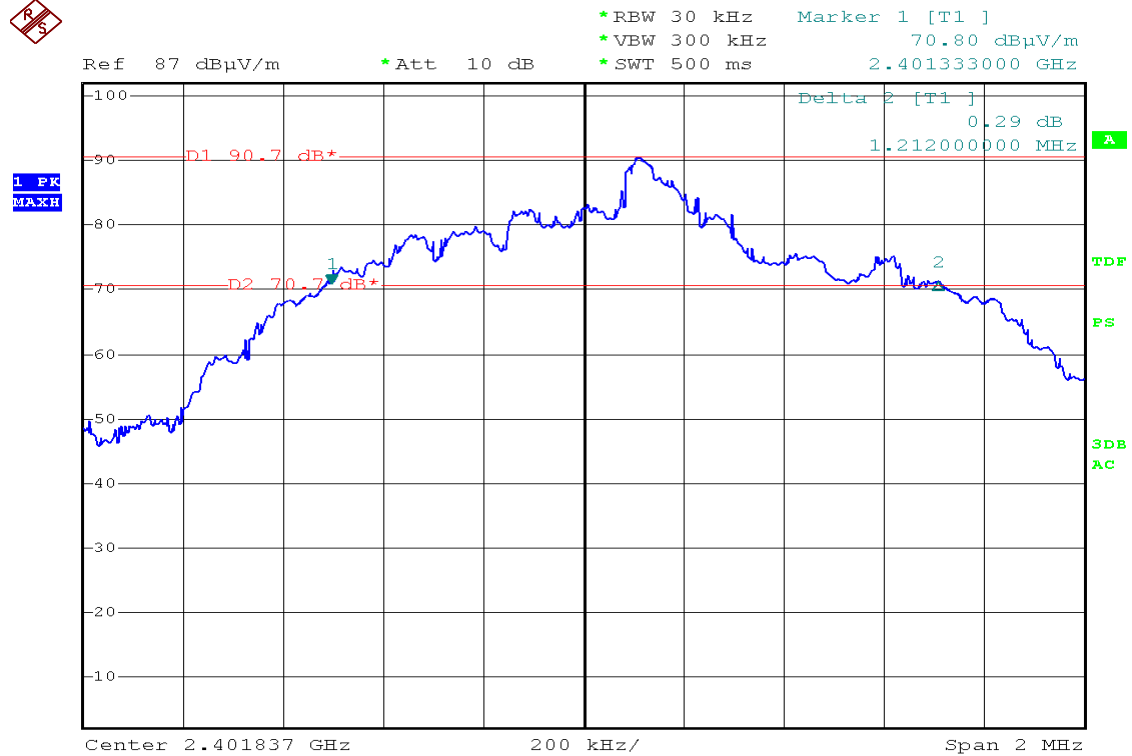
PASSED.

The testing data was attached in the next pages.

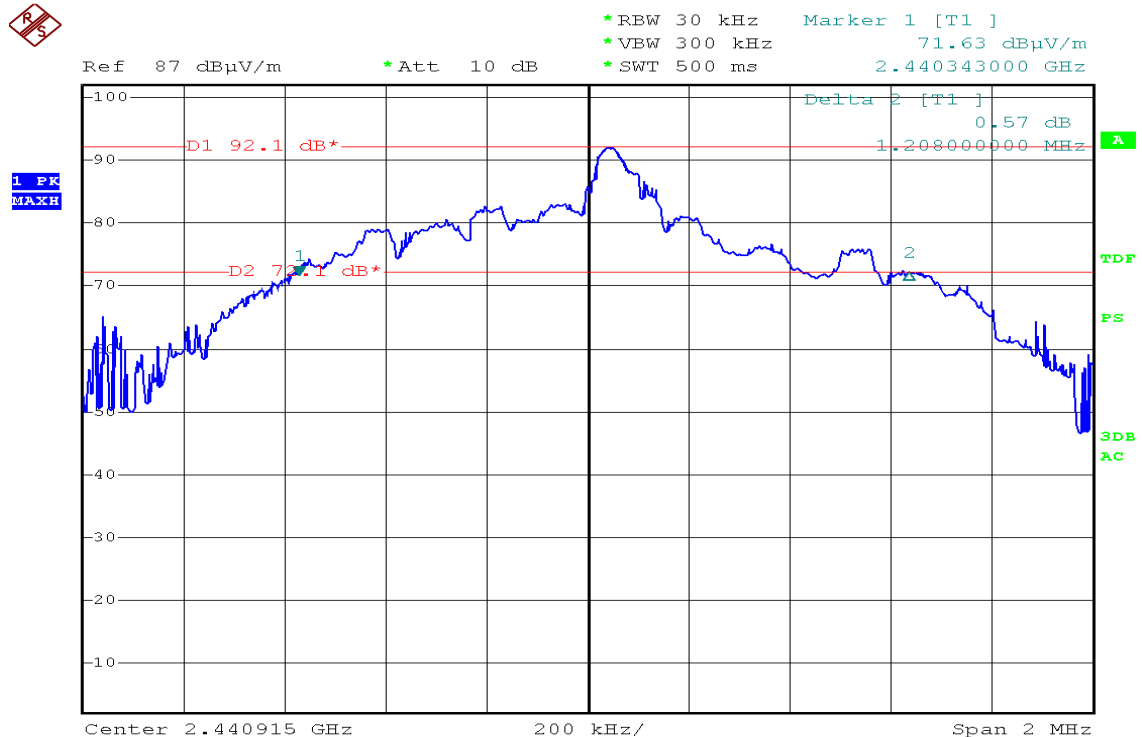
Channel	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	1212	---	PASSED
(Mid)	1208	---	PASSED
(High)	1212	---	PASSED



Test Frequency: 2402MHz



Test Frequency: 2440MHz



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Test Frequency:2480MHz



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10. Number of Hopping Frequency test

10.1. Test Equipment

Number of Hopping Frequency test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

10.2. Test Information

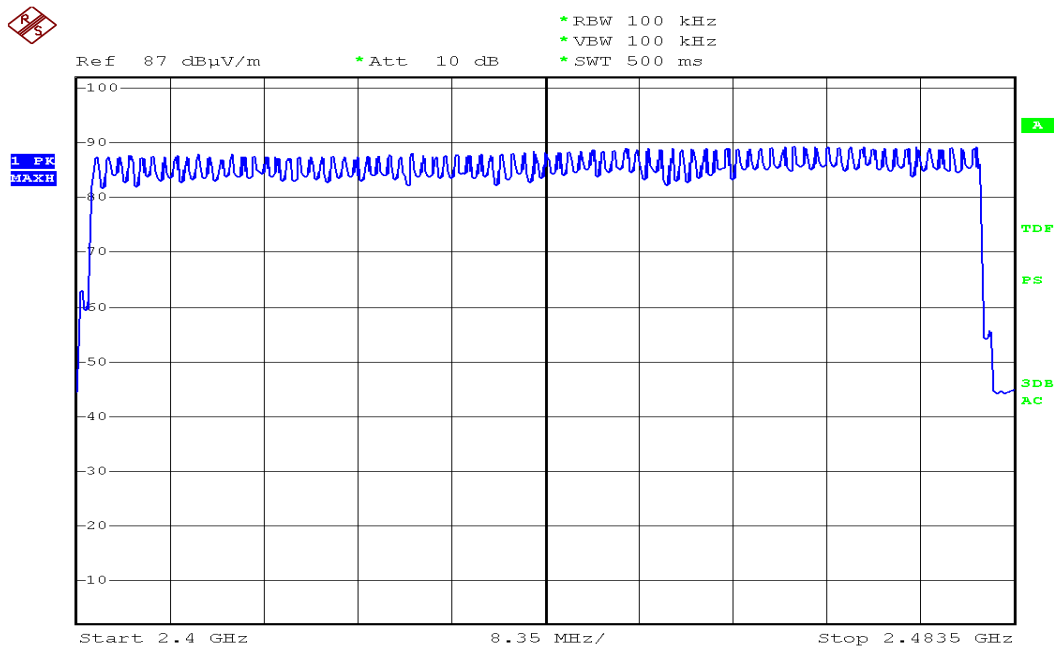
EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2402MHz Mid: 2440MHz High: 2480MHz ,
Test Date:	30 March~30 April 2010
Test By:	Jackson

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

Number of channel	Limit	Conclusion
79	≥ 15	PASSED



Date: 28.APR.2010 10:33:52

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11. Dwell time test

11.1. Test Equipment

Dwell time test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

11.2. Test Information

EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping off
Test Frequency:	Normal
Test Date:	30 March~April 2010
Test By:	Jackson

11.3. Test Results

PASSED.

The testing data was attached in the next pages.

This system hopping 42 hops in any 10s, and for each hop it transmit 5 pulses, each pulse dwell 380μs, so the dwell time is:

$$42/10 \times 79 \times 0.4 \times 5 \times 380 \times 10^{-6} = 252.1 \text{ms}$$

dwell time	Limit	Conclusion
252.1ms	<400ms	PASSED



12. Maximum Peak Output power test

12.1. Test Equipment

Maximum Peak Output power test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

12.2. Test Information

EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping off
Test Frequency:	Low: 2402MHz Mid: 2440MHz High: 2480MHz ,
Test Date:	30 March~30 April 2010
Test By:	Jackson

12.3. Test Results

PASSED.

The testing data was attached in the next pages.



CH	Freq (MHz)	Ant. pol	Emission Level (dBμV)	Result (dBm)	Margin	Limits	
						(mW)	(dBm)
Low	2402.0	H	98.87	1.36	19.61	125	20.97
	2402.0	V	90.89	-5.34	26.31	125	20.97
Mid	2440.0	H	96.34	1.11	19.86	125	20.97
	2440.0	V	89.14	-6.09	27.06	125	20.97
High	2480.0	H	97.39	0.86	20.11	125	20.97
	2480.0	V	89.69	-5.54	26.51	125	20.97

Calculation Result = $30 + 10\log(TP)$

$TP = (Emission\ Level * D)^2 / 30 * G$

(This formula descript in IC RSS-210 clause 11, where D is the distance in meters between the tow antennas, TP is transmitter output power in watts and G is the antenna numerical gain referenced to isotropic gain, in here $G = 1$ supplied by customer)

Emission Level = Antenna Factor + Cable Loss + Reading.

(RBW=1MHz, VBW=1MHz peak detector.)

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13. Band Edge Compliance test

13.1. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	200912
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	200912
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	200912

13.2. Test Information

EUT:	PS3 compatible wireless controller
M/N:	ER000224
Firm Name:	Datel Design & Development, inc.
Power supply:	2xStandard AA Batteries or 2xRechargeable AA Batteries
Test Condition:	Ambient Temperature: 25°C Humidity: 56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on and Hopping off
Test Frequency:	Low: 2402MHz, High: 2480MHz ,
Test Date:	30 March~06 May 2010
Test By:	Jackson

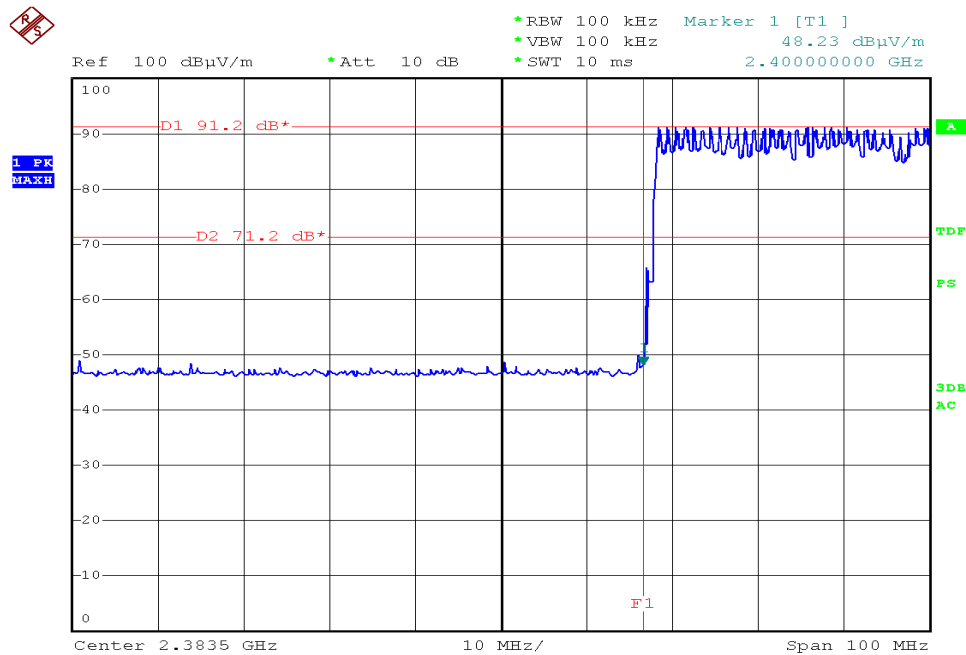
13.3. Test Results

PASSED.

The testing data was attached in the next pages.

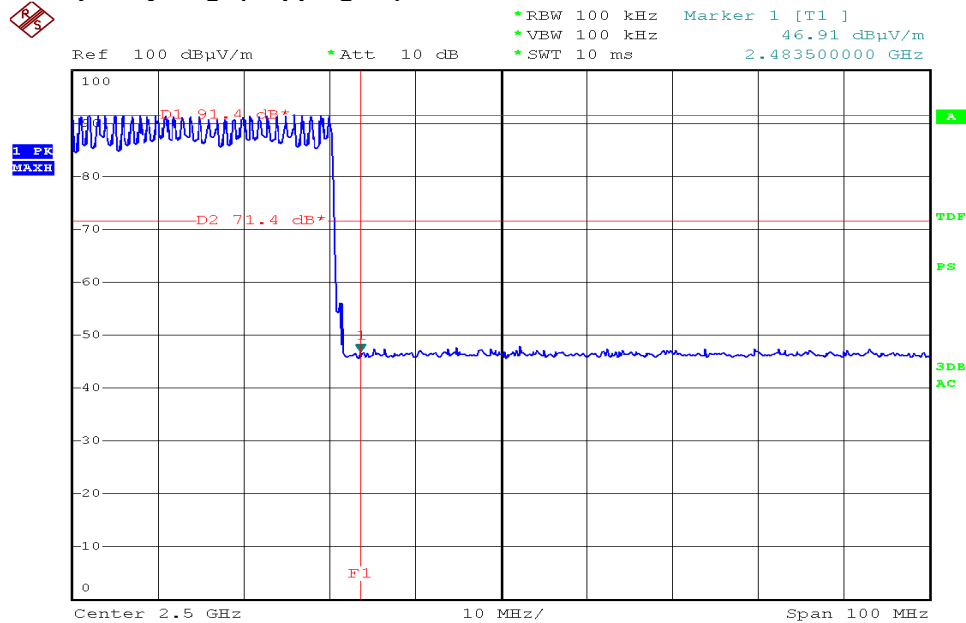


Test Frequency: Low (Hopping on)



Date: 6.MAY.2010 13:34:34

Test Frequency: High(Hopping on)



Date: 6.MAY.2010 14:20:30

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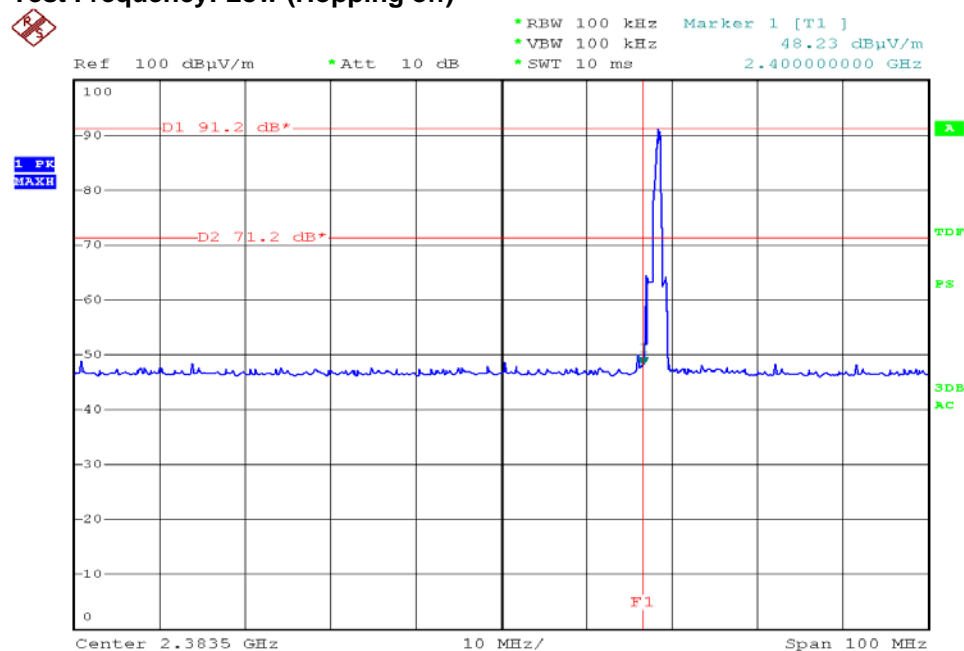
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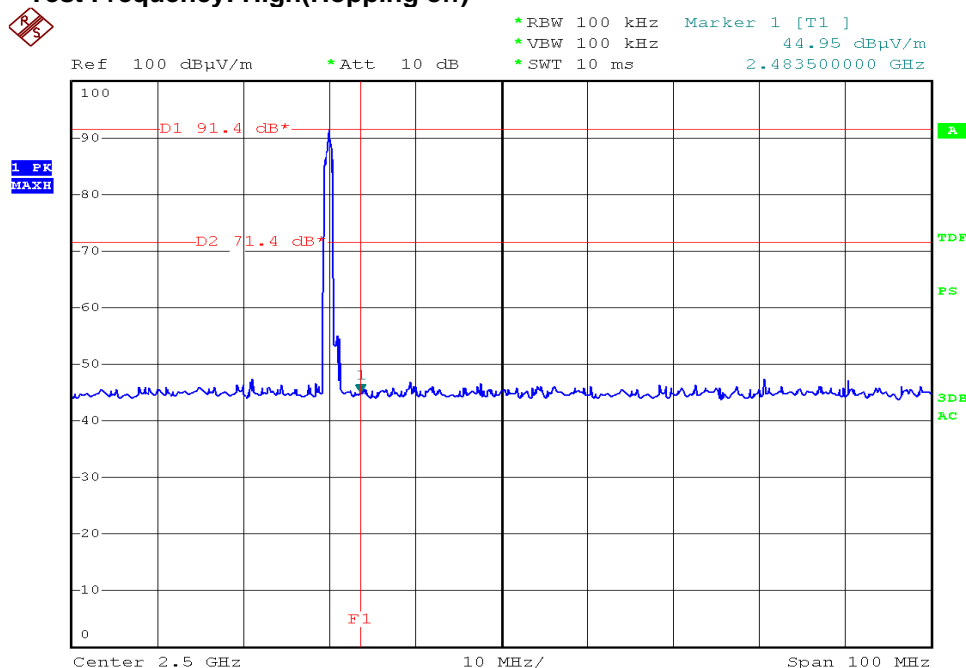
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Test Frequency: Low (Hopping off)



Date: 6.MAY.2010 13:34:34

Test Frequency: High(Hopping off)



Date: 6.MAY.2010 14:24:00

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14.Deviation to test specifications

[NONE]

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