



World Standardization Certification & Testing CO.,LTD  
World Standardization Safety and EMC Testing Centre

## FCC ID TEST REPORT

for

**PS3 2.4G Wireless Controller**

**MODEL: ASD123/FEL-2808**

**FCC ID: TAZASD123R**

**Test Report Number: WSCT10030060E-2**

**Issued Date: April 09, 2010**

Issued for

**Front Electronics (H.K.) Ltd.**

**Rm 2919, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong**

Issued By:

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Issued: April 9, 2010

Revised:None

### Revision History Of Report

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	WSCT10030060E-2	Initial Issue	ALL	Kallen Wang

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Report reference No.: WSCT10030060E-1

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Revised:None

## 1 TEST CERTIFICATION

<b>Product:</b>	PS3 2.4G Wireless Controller
<b>Model:</b>	ASD123/FEL-2808
<b>Applicant:</b>	<b>Front Electronics (H.K.) Ltd.</b> Rm 2919, Asia Trade Centre, 79 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
<b>Factory:</b>	<b>Alliance Sales &amp; Distribution Inc. Shenzhen Representative Office</b> Rm. 505,5/F, Fu Er Yuan Jian Business Center, Zone 25, Baoan District, Shenzhen, China
<b>Trade Mark:</b>	N/A
<b>Tested:</b>	March 04 ~ April 02, 2010
<b>Test Voltage:</b>	AC 120V/60Hz
<b>Applicable Standards:</b>	FCC Part 15: Subpart C ANSI C63.4:2003

### Deviation from Applicable Standard

None

The above equipment has been tested by World Standardization Certification & Testing Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Tested By:** Eric Yang  
(Eric Yang)

**Date:** 2010-04-09

**Check By:** Kelly Wu

**Date:** 2010-04-09

**Approved By:** Kallen Wang  
(Kallen Wang)

**Date:** 2010-04-09

## 2 TEST RESULT SUMMARY

Standard	Item	Result
FCC Part 15 Subpart C: Clause 15.249	Conducted emission Test	PASS
	Radiation Emission Test	PASS
	20dB bandwidth Test	PASS
	Band Edge Test	PASS

**Note:** 1. The test result judgment is decided by the limit of test standard  
2. The information of measurement uncertainty is available upon the customer's request.

### 3 EUT DESCRIPTION

<b>Product</b>	PS3 2.4G Wireless Controller
<b>Trade Mark</b>	N/A
<b>Model</b>	ASD123/FEL-2808
<b>Applicant</b>	Front Electronics (H.K.) Ltd.
<b>EUT Type</b>	<input checked="" type="checkbox"/> Engineering Sample. <input type="checkbox"/> Product Sample, <input type="checkbox"/> Mass Product Sample.
<b>Serial Number</b>	N/A
<b>Antenna Type</b>	Integral Antenna
<b>EUT Power Rating</b>	AC 120V/60Hz
<b>Temperature Range(Operating)</b>	+15 ~+ 35°C
<b>Type of the Equipment</b>	Transmitter
<b>Operating Frequency</b>	2402MHz to 2480MHz
<b>Number of Channels</b>	79 Channels
<b>Channel Separation</b>	1MHz
<b>Modulation type</b>	FHSS(Frequency Hopping Spread Spectrum);
<b>Dwell time</b>	Each channel is less than 0.4S.

Note: N/A stand for no applicable.

### I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
N/A	N/A	N/A

### Models difference

No.	Model Name	Tested With
1	ASD123	<input checked="" type="checkbox"/>
2	FEL-2808	<input type="checkbox"/>

Note: All Models are the same except the Model name. So the test data of ASD123 can represent the remaining models.

## 4 TEST METHODOLOGY

### 4.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode was recorder in this report.

Test item	Test mode
Conducted emission Test	CH1,CH40,CH79
Radiation Emission Test	CH1, CH40, CH79
20dB bandwidth	CH1, CH79,
Band Edge Test	CH1, CH79,

### 4.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipments.
2. Make sure the EUT work normally during the test.

## 5 SETUP OF EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF SUPPORT UNITS

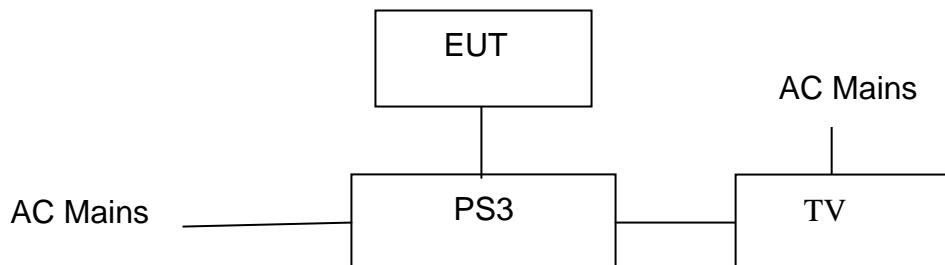
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	PS3	DX2700	Ps311450c	N/A	N/A	shielded 1.5m	Unshielded 1.8m
2	TV	T456D	Sin02450	N/A	N/A	Shielded 1.8m	Unshielded 1.8m

**Note:**

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 5.2. CONFIGURATION OF SYSTEM UNDER TEST



## 6 FACILITIES AND ACCREDITATIONS

### 6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

**1-2/F, DaChong Science&Technology Building, No.28 of Tonggu Road,Nanshan District, ShenZhen.PRC**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

<b>USA</b>	FCC (certificate registration number is 276008) TIMCO (certificate registration number is Q2001)
<b>Japan</b>	VCCI (certificate registration number is C-2912, R-2662)
<b>Germany</b>	TUV Rheinland
<b>Canada</b>	INDUSTRY CANADA (certificated registration number is 46405-7700)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct.org.cn>

### 6.3. 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:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz~30MHz		+/- 3.59dB
Radiated emissions	Horizontal	30MHz ~ 200MHz	+/- 4.77dB
		200MHz ~1000MHz	+/- 4.93dB
	Vertical	30MHz ~ 200MHz	+/- 5.04dB
		200MHz ~1000MHz	+/- 4.93dB

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

## 7 TEST REQUIREMENTS

### 7.1. CONDUCTED EMISSION MEASUREMENT

#### 7.1.1. LIMITS

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**NOTE:**

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	06/24/2010
LISN	AFJ	LS16	16010222119	09/29/2010
LISN(EUT)	Mestec	AN3016	04/10040	09/28/2010

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).  
2. N.C.R = No Calibration Request.

#### 7.1.3. TEST PROCEDURES

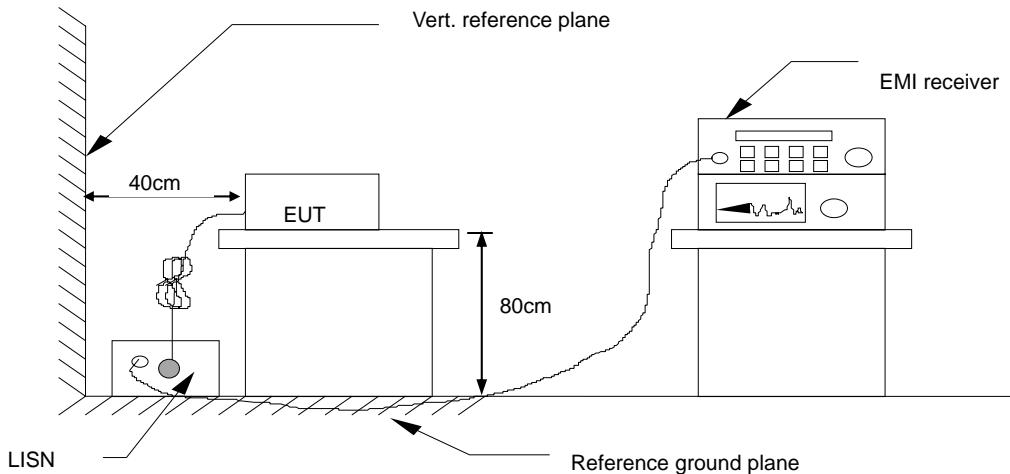
The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m. The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (ESCI) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst-case condition(s) was recorded.

#### 7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 7.1.5. Test Result

<b>Model No.</b>	ASD123	<b>6dB Bandwidth</b>	10 KHz
<b>Environmental Conditions</b>	26°C, 60% RH	<b>Test Mode</b>	Transmitting
<b>Detector Function</b>	Peak / Quasi-peak/AV	<b>Test Result</b>	Pass
<b>Test By</b>	Eric Yang		

NOTE: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. “---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = Attenuator Factor+ Cable loss

Level (dBuV) = Reading level(dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

Q.P.=Quasi-Peak

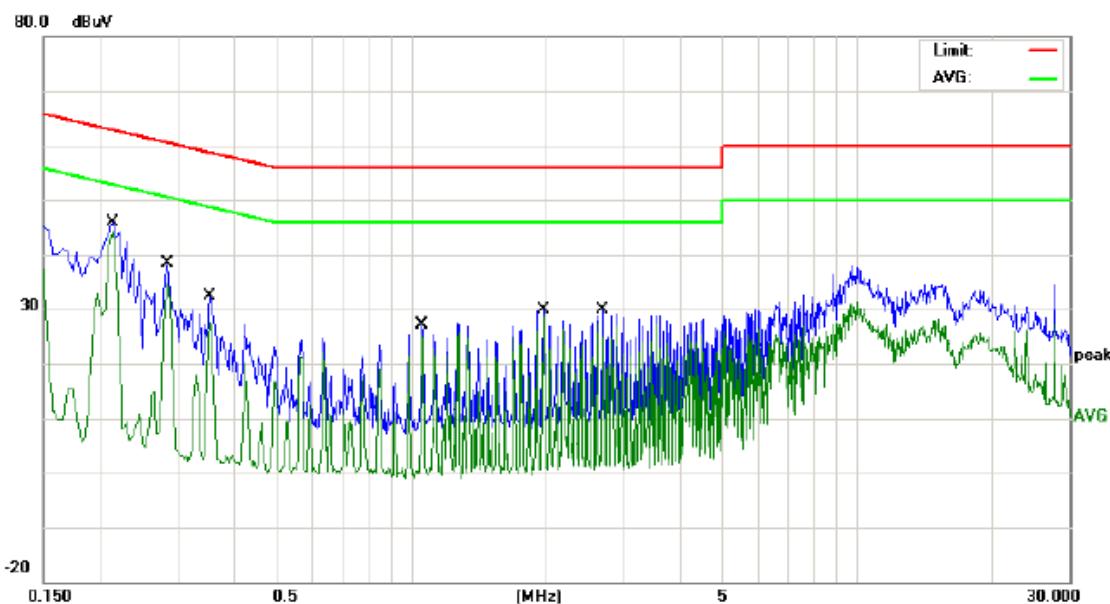
## Conducted Emission Measurement

File :Front

Data :#5

Date: 2010/04/04

Time: 19:47:38



Site 843 Shielded Room

 Phase: *L1*

Temperature: 26

Limit: FCC Part 15 C Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: PS3 2.4G Wireless Contoller

M/N: ASD123

Mode: Transmitting

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.2140	33.81	10.74	44.55	63.04	-18.49	QP
2	*	0.2140	33.22	10.74	43.96	53.04	-9.08	AVG
3		0.2860	24.82	10.85	35.67	60.64	-24.97	QP
4		0.2860	23.02	10.85	33.87	50.64	-16.77	AVG
5		0.3540	19.23	10.78	30.01	58.87	-28.86	QP
6		0.3540	17.08	10.78	27.86	48.87	-21.01	AVG
7		1.0620	15.29	10.25	25.54	56.00	-30.46	QP
8		1.0620	14.85	10.25	25.10	46.00	-20.90	AVG
9		1.9860	18.14	10.28	28.42	56.00	-27.58	QP
10		1.9860	17.73	10.28	28.01	46.00	-17.99	AVG
11		2.6940	17.68	10.33	28.01	56.00	-27.99	QP
12		2.6940	15.56	10.33	25.89	46.00	-20.11	AVG

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

## Conducted Emission Measurement

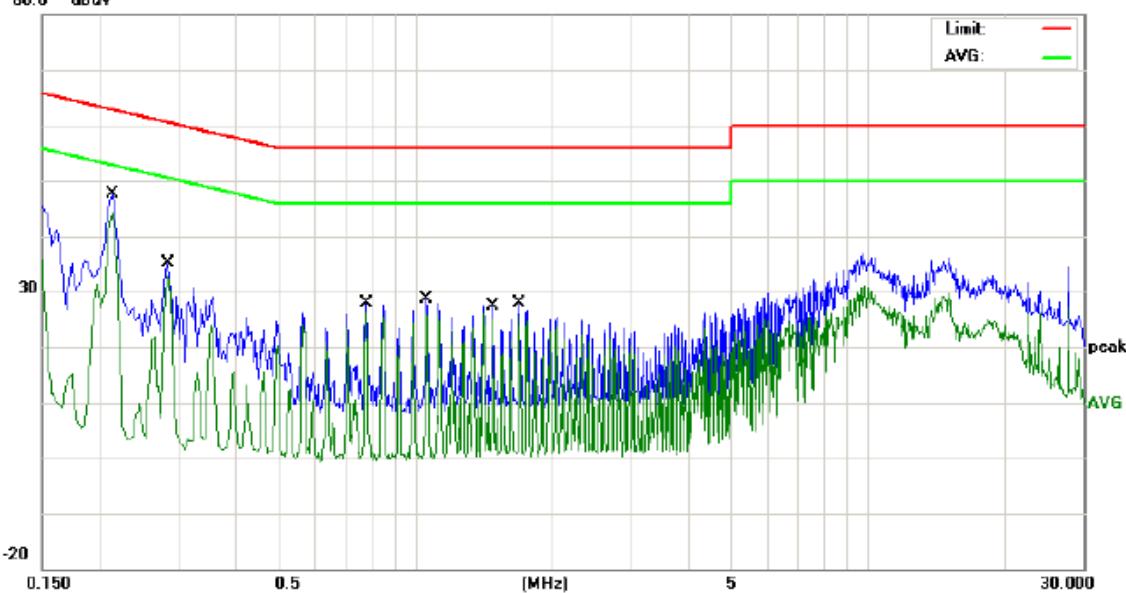
File :Front

Data :#7

Date: 2010/04/04

Time: 19:51:00

80.0 dBuV



Site 843 Shielded Room

 Phase: **N** Temperature: 26

Limit: FCC Part 15 C Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: PS3 2.4G Wireless Contorller

M/N: ASD123

Mode: Transmitting

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2140	34.88	10.74	45.62	63.04	-17.42	QP	
2	*	0.2140	32.92	10.74	43.66	53.04	-9.38	AVG	
3		0.2860	21.99	10.85	32.84	60.64	-27.80	QP	
4		0.2860	21.28	10.85	32.13	50.64	-18.51	AVG	
5		0.7820	16.07	10.38	26.45	56.00	-29.55	QP	
6		0.7820	15.46	10.38	25.84	46.00	-20.16	AVG	
7		1.0620	16.59	10.25	26.84	56.00	-29.16	QP	
8		1.0620	16.22	10.25	26.47	46.00	-19.53	AVG	
9		1.4900	15.73	10.26	25.99	56.00	-30.01	QP	
10		1.4900	14.33	10.26	24.59	46.00	-21.41	AVG	
11		1.7020	15.96	10.27	26.23	56.00	-29.77	QP	
12		1.7020	15.29	10.27	25.56	46.00	-20.44	AVG	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

## 7.2. Radiation Emission Test

### 7.2.1. Limits

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency	Field Strength of Fundamental		Field Strength of Spurious	
	mV/meter	dBuV/meter	uV/meter	dBuV/meter
902-928MHz	50	94	500	54
2400-2483.5MHz	50	94	500	54
5725-5875MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

The above field strength limits are specified at a distance of 3 meters. Emissions radiated outside of the specified bands,shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength uV/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

As shown in 15.35(b), 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.

#### Frequency Range of Radiated Measurement

According to 15.33(a), the intentional radiator operates below 10GHz, must be measured up to the tenth harmonic of the highest fundamental frequency or 40GHz, whichever is lower



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## 7.2.2. TEST INSTRUMENT

966 Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100005	06/24/2010
Spectrum Analyzer	R&S	FSU	100114	04/14/2010
Pre Amplifier	H.P.	HP8447E	2945A02715	06/24/2010
Pre-Amplifier	Compliance	PAM0118	1360976	06/04/2010
Bilog Antenna	SUNOL Sciences	JB3	A021907	06/10/2010
Horn Antenna	Compliance	CE18000	001	06/10/2010
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	06/09/2010
Cable	TIME MICROWAVE	--	--	06/09/2010
System-Controller	CCS	N/A	N/A	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R

### 7.2.3. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 3MHz for Peak emission measurement above 1GHz .

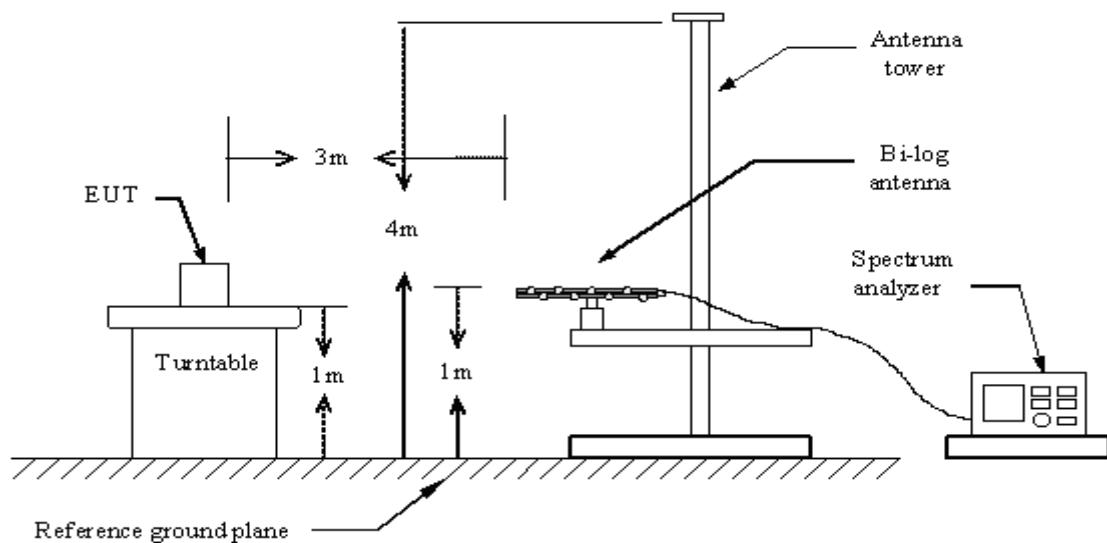
The resolution bandwidth of the test receiver was 1MHz and the video bandwidth are 10Hz for Average emission measurement above 1GHz .

The EUT was tested in Chamber Site.

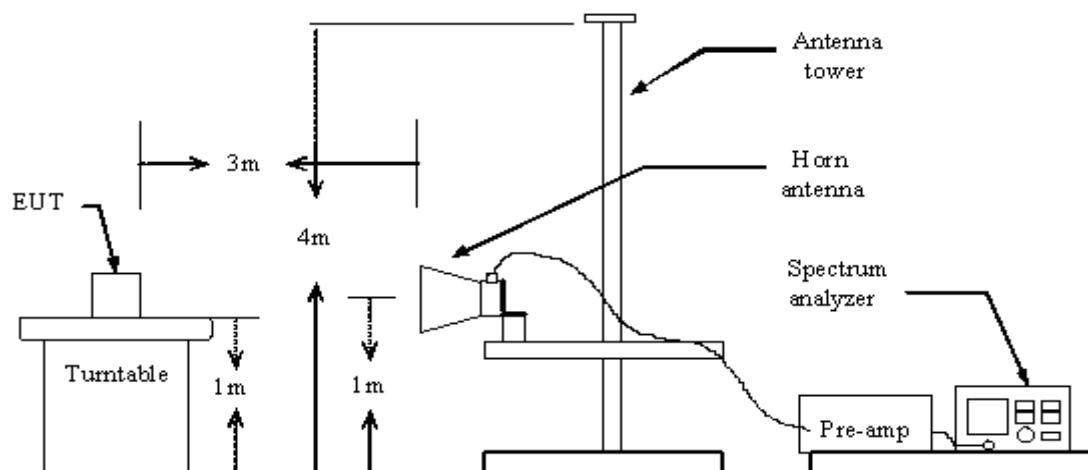
The test data of the worst case condition(s) was reported on the following pages.

### 7.2.4 Test setup diagram

#### Below 1GHz



#### Above 1GHz



### 7.2.5. Test Result

#### CH1 2402MHz test data

Frequency MHz	Emission Level dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m	Note	Polarity	Result
2402.00	62.04	-51.96	114.00	PK	H	PASS
2402.00	--	--	94.00	AV	H	PASS
300.42	38.50	-7.5	46.00	QP	H	PASS
367.54	37.40	-8.6	46.00	QP	H	PASS
431.58	35.50	-10.5	46.00	QP	H	PASS
1236.5	52.40	-21.6	74.00	PK	H	PASS
1236.5	--	--	54.00	AV	H	PASS
1855.0	54.60	-19.4	74.00	PK	H	PASS
1855.0	41.68	-12.32	54.00	AV	H	PASS
15468.5	52.60	-17.40	74.00	PK	H	PASS
15468.5	--	--	54.00	AV	H	PASS
2402.00	61.04	-52.96	114.00	PK	V	PASS
2402.00	--	--	94.00	AV	V	PASS
335.50	28.80	-11.2	40.00	QP	V	PASS
367.50	31.70	-14.3	46.00	QP	V	PASS
802.12	35.20	-10.8	46.00	QP	V	PASS
1236.5	41.30	-32.7	74.00	PK	V	PASS
1236.5	--	--	54.00	AV	V	PASS
1855.0	43.65	-30.35	74.00	PK	V	PASS
1855.0	--	--	54.00	AV	V	PASS
15468.5	53.60	-20.4	74.00	PK	V	PASS
15468.5	--	--	54.00	AV	V	PASS

Notes:

1. The readings were Quasi-Peak values below 1GHz.
2. The readings were Peak values + Average values above 1GHz
3. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp factor
4. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
5. The emission levels from 15GHz to 25GHz which not reported are too low against the limit.

**CH40 2441MHz test data**

Frequency MHz	Emission Level dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m	Note	Polarity	Result
2441.00	59.42	-54.58	114.00	PK	H	PASS
2441.00	--	--	94.00	AV	H	PASS
288.42	36.30	-9.7	46.00	QP	H	PASS
365.54	35.44	-10.56	46.00	QP	H	PASS
440.12	36.12	-9.88	46.00	QP	H	PASS
1236.5	50.00	-24	74.00	PK	H	PASS
1236.5	--	--	54.00	AV	H	PASS
1855.0	54.60	-19.4	74.00	PK	H	PASS
1855.0	--	--	54.00	AV	H	PASS
15468.5	51.35	-22.65	74.00	PK	H	PASS
15468.5	--	--	54.00	AV	H	PASS
	0					
2441.00	56.43	-57.57	114.00	PK	V	PASS
2441.00	--	--	94.00	AV	V	PASS
334.50	26.80	-13.2	40.00	QP	V	PASS
360.65	32.40	-11.1	43.50	QP	V	PASS
812.54	33.30	-10.2	43.50	QP	V	PASS
1236.5	42.15	-31.85	74.00	PK	V	PASS
1236.5	--	--	54.00	AV	V	PASS
1855.0	40.06	-33.94	74.00	PK	V	PASS
1855.0	--	--	54.00	AV	V	PASS
15468.5	51.40	-22.6	74.00	PK	V	PASS
15468.5	--	--	54.00	AV	V	PASS

Notes:

1. The readings were Quasi-Peak values below 1GHz.
2. The readings were Peak values + Average values above 1GHz
3. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp factor
4. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
5. The emission levels from 15GHz to 25GHz which not reported are too low against the limit.

**CH79 2480MHz test data**

Frequency MHz	Emission Level dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m	Note	Polarity	Result
2480.00	58.71	-55.29	114.00	PK	H	PASS
2480.00	--	--	94.00	AV	H	PASS
288.94	35.60	-7.9	43.50	QP	H	PASS
365.12	36.50	-9.5	46.00	QP	H	PASS
433.20	34.50	-11.5	46.00	QP	H	PASS
1236.5	50.60	-23.4	74.00	PK	H	PASS
1236.5	--	--	54.00	AV	H	PASS
1855.0	51.45	-22.55	74.00	PK	H	PASS
1855.0	--	--	54.00	AV	H	PASS
15468.5	53.50	-20.5	74.00	PK	H	PASS
15468.5	--	--	54.00	AV	H	PASS
	0					
2480.00	58.43	-55.57	114.00	PK	V	PASS
2480.00	--	--	94.00	AV	V	PASS
335.43	25.12	-14.88	40.00	QP	V	PASS
365.50	31.43	-12.07	43.50	QP	V	PASS
800.36	34.43	-9.07	43.50	QP	V	PASS
1236.5	43.53	-30.47	74.00	PK	V	PASS
1236.5	--	--	54.00	AV	V	PASS
1855.0	39.50	-34.5	74.00	PK	V	PASS
1855.0	--	--	54.00	AV	V	PASS
15468.5	53.60	-20.4	74.00	PK	V	PASS
15468.5	--	--	54.00	AV	V	PASS

Notes:

1. The readings were Quasi-Peak values below 1GHz.
2. The readings were Peak values + Average values above 1GHz
3. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp factor
4. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
5. The emission levels from 15GHz to 25GHz which not reported are too low against the limit.

### 7.3. 20dB bandwidth test

#### 7.3.1. Limits

According 15.215 (c),Intentional radiators operating under the alternative provisions to the general emission limits,as contained in section 15.217 through 15.257 and in subpart E of this part,must be designed to ensure that the 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates,is contained within the frequency band designated in the rule section under which the equipment is operated.

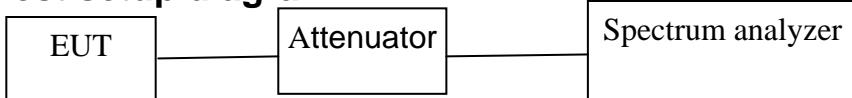
#### 7.3.2. TEST INSTRUMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	100114	04/14/2010

#### 7.3.3. Test procedure

- 1.The EUT was placed on a turntable which is 0.8m above ground plane.
2. Set EUT as continuous transmitting mode.
3. Set the EUT work on the CH1, CH79 individually.
4. Set SPA Frequency = Operation frequency, for PK: RBW =100kHz, VBW=300kHz
5. Set SPA trace max hold, then view.

#### 7.3.4. Test setup diagram



#### 7.3.5. Test result

Channel	Fundamental Frequency	20dB bandwidth Fstart/Fend	20dB bandwidth Limit	Result
01	2402 MHz	2401.49 MHz	2400 MHz	Pass
79	2480 MHz	2480.49 MHz	2483.5 MHz	Pass

**Radiated Emission Measurement**

File :Front

Data #:67

Date: 10/04/09/

Time: 08/29/15

91.0 dBuV/m



No.	Mk.	Freq.	Reading Level
		MHz	dBuV
1		2401.492	41.13
2	*	2401.974	62.40
3		2402.510	42.31

**Radiated Emission Measurement**

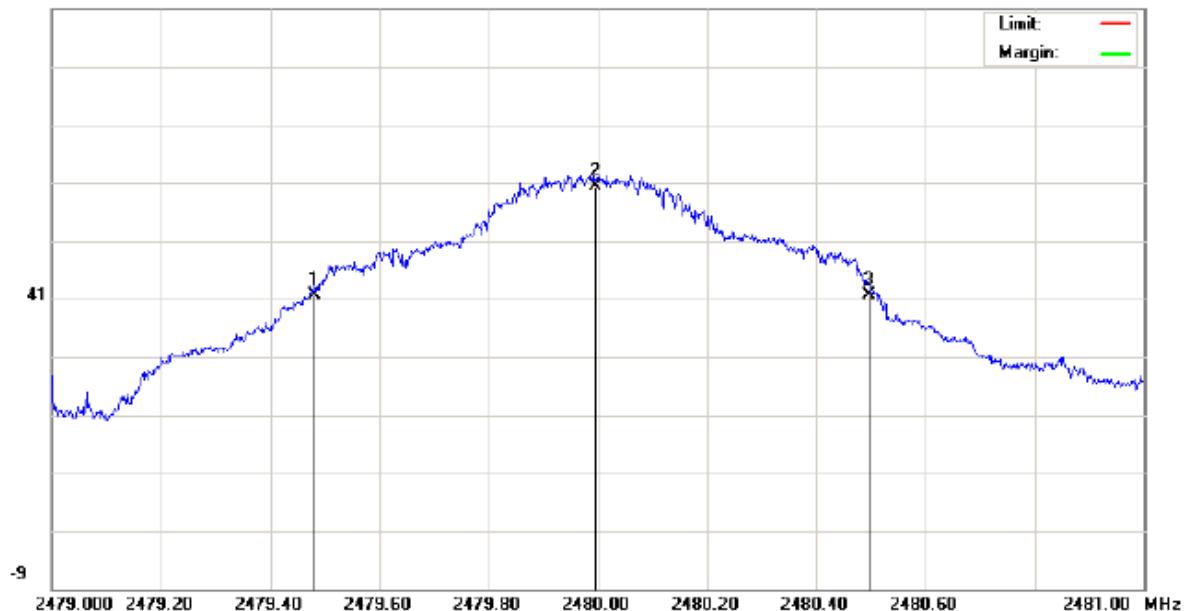
File :Front

Data :#68

Date: 10/04/09/

Time: 08/35/36

91.0 dBuV/m



No.	Mk.	Freq. MHz	Reading dBuV
1		2479.482	41.72
2	*	2479.996	60.45
3		2480.496	41.60

## 7.4. Band edge test

### 7.4.1. Limits

According 15.249(d), Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation.

### 7.4.2. TEST INSTRUMENT

Same as 7.2.2

### 7.4.3. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Set EUT as continuous transmitting mode.
3. Set the EUT work on the CH1, CH79 individually.
4. Set SPA Frequency = Operation frequency, for PK: RBW =1MHz, VBW=3MHz  
for AV: RBW =1MHz, VBW=10Hz
5. Set SPA trace max hold, then view.

### 7.4.4. Test setup diagram

Same as 7.2.4

**7.4.5. Test result**

Channel	Frequency MHz	Emission level dBuV/m	Limit dBuV/m	Polarity H/V	Remark	Result
CH01	2402.0	62.04	114	H	peak	Pass
	2400.0	38.24	74	H	peak	Pass
	2392.4	28.08	74	H	peak	Pass
	2402.0	61.04	114	V	peak	Pass
	2400.5	39.79	74	V	peak	Pass
	2393.6	26.78	74	V	peak	Pass
CH79	2480.0	58.71	114	H	peak	Pass
	2483.5	34.78	74	H	peak	Pass
	2487.8	27.11	74	H	peak	Pass
	2480.0	58.43	114	V	peak	Pass
	2483.5	27.15	74	V	peak	Pass
	2488.1	24.89	74	V	peak	Pass

Remark: Due to the peak emsision level complies with the average limit,it is unnecessary to perform an average measurement of bandwidth edge .

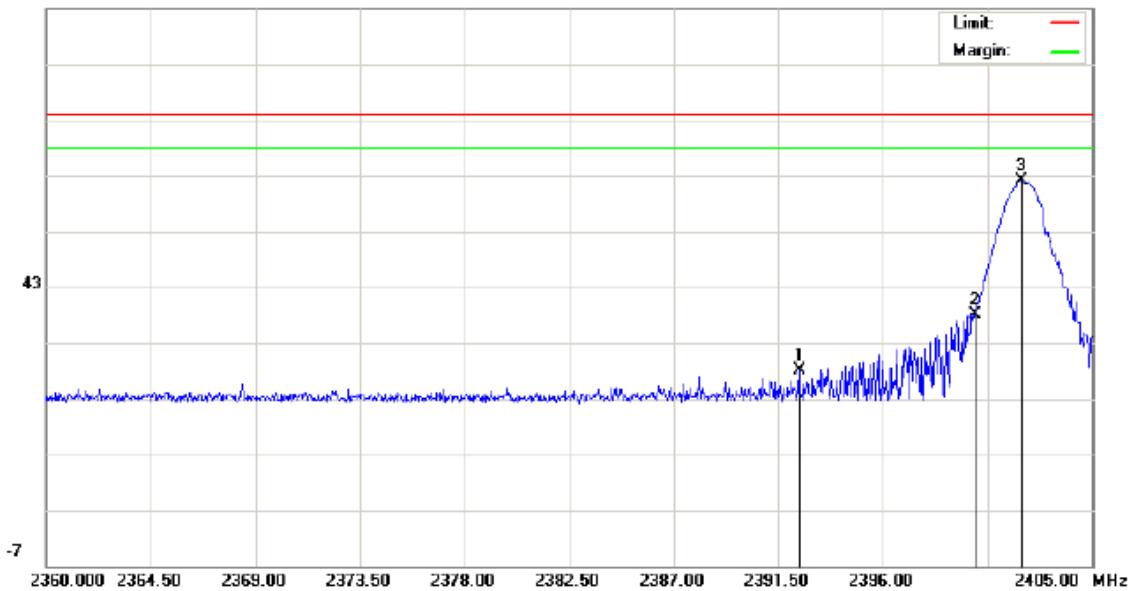
CH1 2402MHz

**Radiated Emission Measurement**File :Front  
93.0 dBuV/m

Data #37

Date: 10/04/01/

Time: 13/27/23



Site site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15C &gt;1G PK 3m Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: PS3 2.4G Wireless Controller

Distance: 3m

M/N: ASD123

Mode: CH02

Note:

**Radiated Emission Measurement**

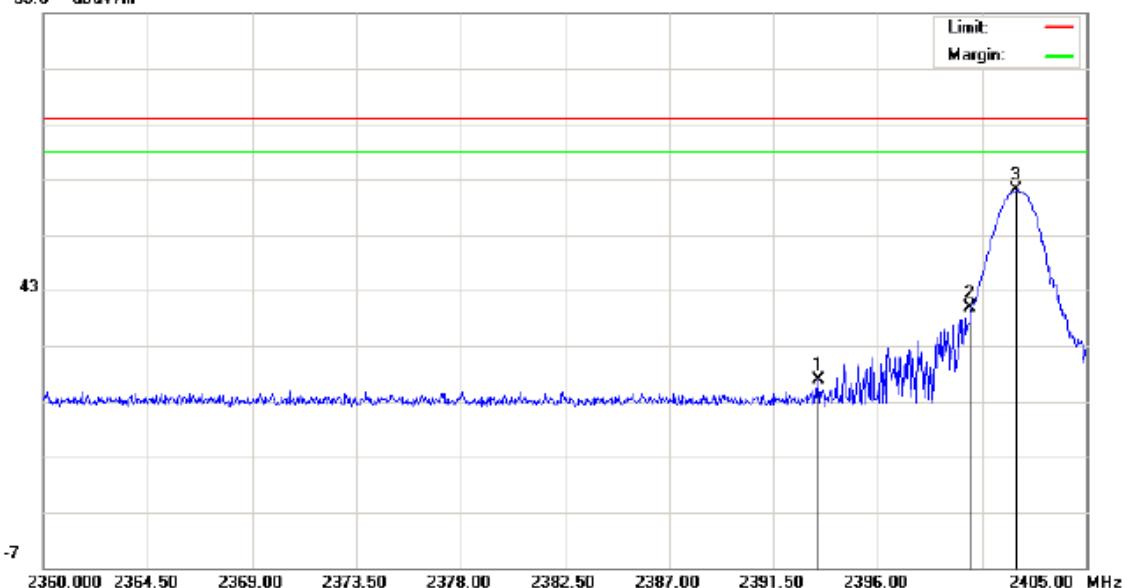
File :Front

Data :#39

Date: 10/04/01/

Time: 13/32/14

93.0 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15C &gt;1G PK 3m Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: PS3 2.4G Wireless Controller

Distance: 3m

M/N: ASD123

Mode: CH02

Note:

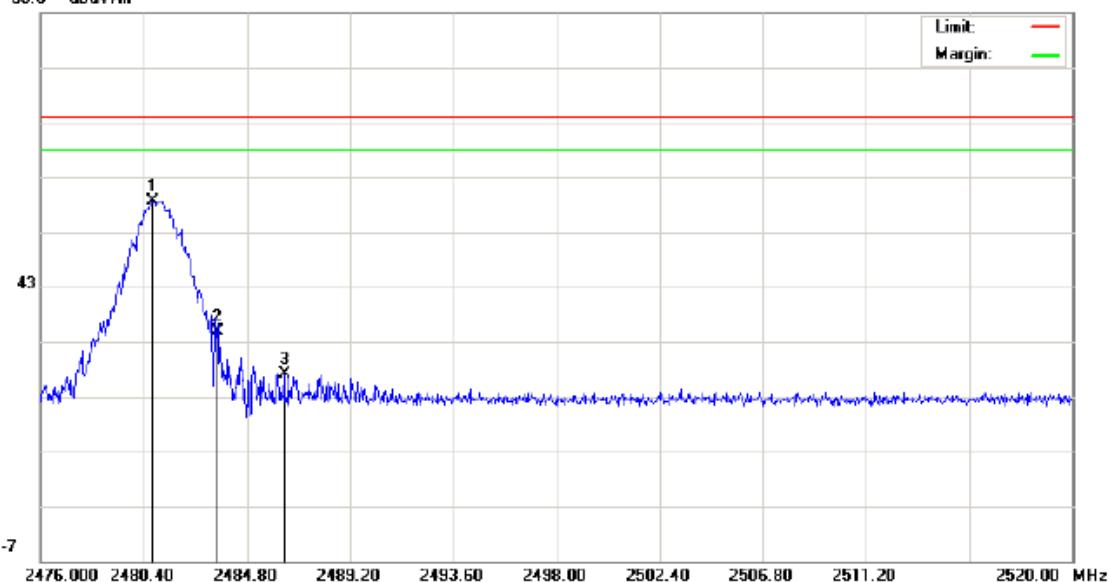
CH79 2480MHz

**Radiated Emission Measurement**File :Front  
93.0 dBuV/m

Data #36

Date: 10/04/01/

Time: 13:16:37



Site site #1	Polarization: <i>Horizontal</i>	Temperature: 26
Limit: FCC Part 15C >1G PK 3m Radiation	Power: AC 120V/60Hz	Humidity: 60 %
EUT: PS3 2.4G Wireless Controller	Distance: 3m	
M/N: ASD123		
Mode: CH79		
Note:		

**Radiated Emission Measurement**

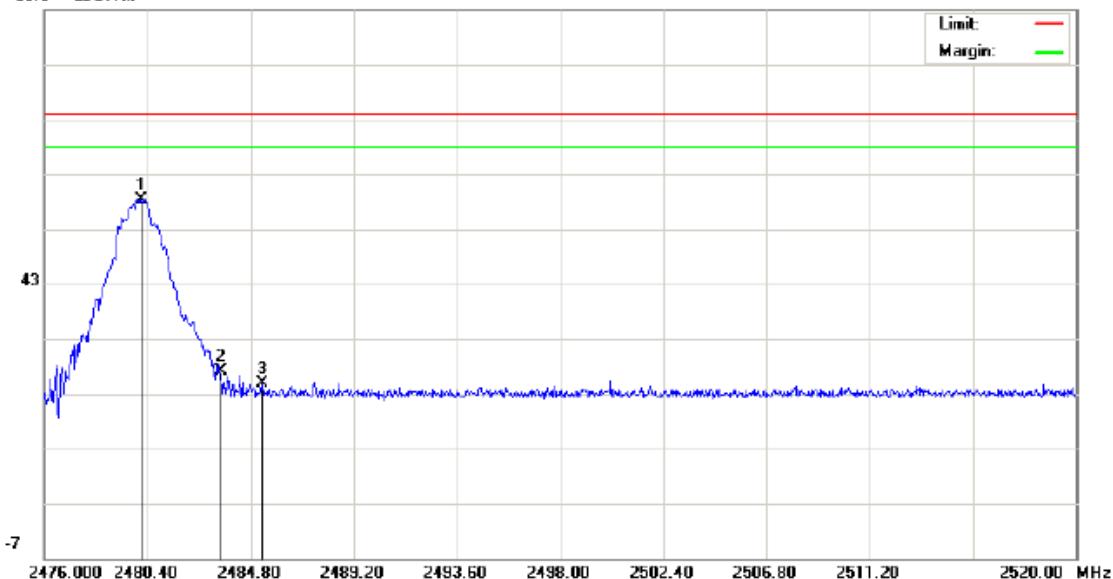
File :Front

Data .#34

Date: 10/04/01/

Time: 11/50/03

93.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15C &gt;1G PK 3m Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: PS3 2.4G Wireless Controller

Distance: 3m

M/N: ASD123

Mode: CH79

Note: