

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

**Product Name:** Personal Digital Assistant

**Brand Name:** Olympus

**Model Name:** MAJ-1901

**Model Differences:** N/A

**FCC ID:** RKS-MAJ1901

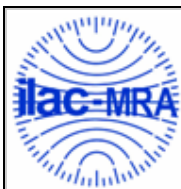
**Report No.:** ER/2010/20004

**Issue Date:** Mar. 12, 2010

**FCC Rule Part:** §15.225

**Prepared for:** Olympus Technologies Singapore Pte Ltd  
41 Science Park Road #04-17/18 The Gemini  
Singapore 117610

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan



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## VERIFICATION OF COMPLIANCE

**Applicant:** Olympus Technologies Singapore Pte Ltd  
41 Science Park Road #04-17/18 The Gemini Singapore 117610

**Product Name:** Personal Digital Assistant

**FCC ID:** RKS-MAJ1901

**Brand Name:** Olympus

**Model No.:** MAJ-1901

**Model Difference:** N/A

**File Number:** ER/2010/20004

**Date of Test:** Mar. 6, 2010 ~ Mar. 11, 2010

**Date of EUT Received:** Mar. 5, 2010

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.225

The test results of this report relate only to the tested sample identified in this report.

Test By:

Jason Wu

Date:

Mar. 12, 2010

Jason Wu / Asst. Supervisor

Prepared By:

Tiffany Kao

Date:

Mar. 12, 2010

Tiffany Kao / Clerk

Approved By

Vincent Su

Date:

Mar. 12, 2010

Vincent Su / Manager

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## Version

Version No.	Date	Description
00	Mar. 12, 2010	Initial creation of document

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## Table of Contents

<b>1</b>	<b>GENERAL INFORMATION .....</b>	<b>5</b>
1.1	PRODUCT DESCRIPTION .....	5
1.2	RELATED SUBMITTAL(S) / GRANT (S).....	7
1.3	TEST METHODOLOGY .....	7
1.4	TEST FACILITY .....	7
1.5	SPECIAL ACCESSORIES .....	7
1.6	EQUIPMENT MODIFICATIONS.....	7
<b>2</b>	<b>SYSTEM TEST CONFIGURATION .....</b>	<b>8</b>
2.1	EUT CONFIGURATION .....	8
2.2	EUT EXERCISE.....	8
2.3	TEST PROCEDURE .....	8
2.4	LIMITATION .....	9
2.5	CONFIGURATION OF TESTED SYSTEM .....	11
<b>3</b>	<b>SUMMARY OF TEST RESULTS.....</b>	<b>12</b>
<b>4</b>	<b>DESCRIPTION OF TEST MODES.....</b>	<b>12</b>
<b>5</b>	<b>CONDUCTED EMISSIONS TEST.....</b>	<b>13</b>
5.1	MEASUREMENT PROCEDURE: .....	13
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	13
5.3	MEASUREMENT EQUIPMENT USED:.....	13
5.4	MEASUREMENT RESULT: .....	13
<b>6</b>	<b>RADIATED EMISSION TEST .....</b>	<b>16</b>
6.1	MEASUREMENT PROCEDURE .....	16
6.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	16
6.3	MEASUREMENT EQUIPMENT USED:.....	17
6.4	FIELD STRENGTH CALCULATION .....	17
6.5	MEASUREMENT RESULT .....	18
<b>7</b>	<b>FREQUENCY TOLERANCE .....</b>	<b>22</b>
7.1	MEASUREMENT PROCEDURE .....	22
7.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	22
7.3	MEASUREMENT EQUIPMENT USED:.....	22
7.4	MEASUREMENT RESULTS .....	22

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## 1. GENERAL INFORMATION

### 1.1 Product Description

Product Name:	Personal Digital Assistant	
Brand Name:	Olympus	
Model Name:	MAJ-1901	
Model Difference:	N/A	
Power Supply:	3.7Vdc from Li-ion battery or 5Vdc from Cradle	
	Battery:	Manufacturer: OLYMPUS MEDICAL SYSTEMS CORP
		Model No: MAJ-1903
	Cradle:	Manufacturer: OLYMPUS MEDICAL SYSTEMS CORP
		Model No: MAJ-1902

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## WLAN:

Frequency Range & Channel number:	802.11 b/g: 2412 – 2462 MHz, 11 channels	
Rated Power:	802.11 b: 18.70 dBm 802.11 g: 18.11 dBm	
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
Transmission Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps	
Antenna Designation:	2.4 G Antenna	Type: PIFA Gain: 3.8 dBi
Type of Emission:	17M3D1D	
Original Modular Report:	Lab Issued: Advance Data Technology Corporation Report No: RF95033L08A	

## RFID:

Operating Frequency	13.56MHz
Transmit Power	< 124dBuV/m at 3m.
Number of Channels	1
Operating Mode	Point-to-Point
Antenna Type	A permanently flexible PCB Coil antenna, which is built-In, designed as an indispensable part of the EUT.
Module Type	ASK (Transmission) / FSK (Reception)

The EUT is compliance with RFID Standard.

This report applies for RFID.

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RKS-MAJ1901** filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

## 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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## 2 System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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## 2.4 Limitation

### (1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

### (2) Radiated Emission

- a. The field strength of any emission within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- b. Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- c. Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- d. The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

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- Remark:
1. Emission level in  $\text{dBuV/m} = 20 \log (\text{uV/m})$
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi 15.205$
  4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of  $\xi 15.205$ , then the general radiated emission limits in  $\xi 15.209$  apply.

### (3) Frequency Tolerance

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from  $85\%$  to  $115\%$  of the rated supply voltage at a temperature of  $20$  degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

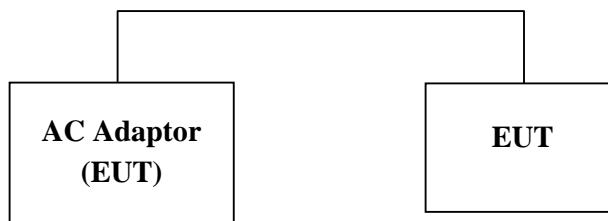
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## 2.5 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
N/A				

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### 3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.225 (a),(b),(c),(d)	Radiated Emission	Compliant
§15.225 (e)	Frequency Stability	Compliant

### 4 Description of test modes

The EUT stay in continuous transmitting mode and the EUT staying in continuous transmitting mode.  
The Frequency 13.56 MHz is chosen for testing.

The X, Y and Z-axis of EUT were pre-test; Y mode will be the worse case for this test report.

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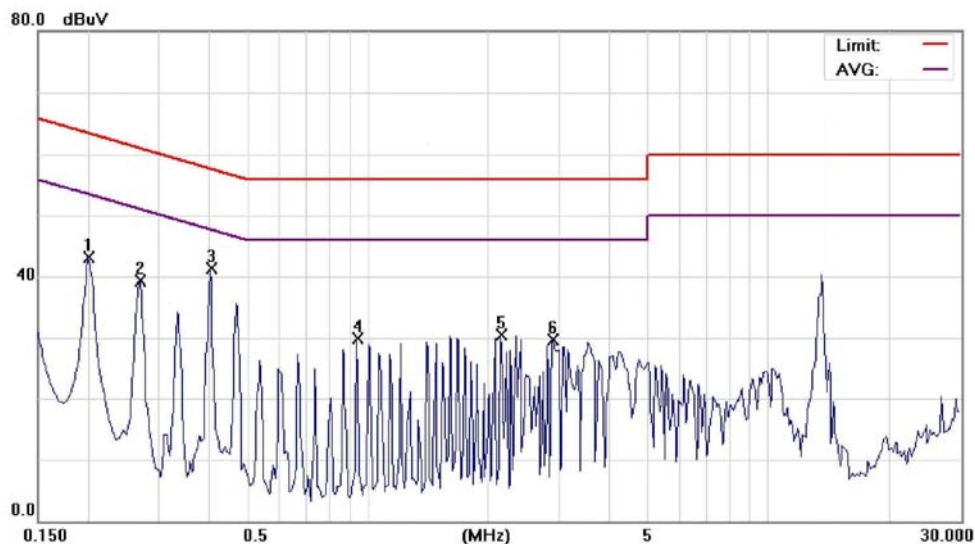
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	RFID Operation Mode			Test Date:	Mar. 08, 2010
Temperature:	23°C	Humidity:	58 %	Test By:	Jason



Site: SGS CONDUCTED #1

Phase: L1

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Personal Digital Assistant

Distance:

Air Pressure: hpa

M/N: MAJ-1901 For PDA

Note: RFID Operation

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2000	43.02	0.12	43.14	63.61	-20.47	peak	
2		0.2700	39.13	0.11	39.24	61.12	-21.88	peak	
3	*	0.4050	41.23	0.08	41.31	57.75	-16.44	peak	
4		0.9400	29.73	0.09	29.82	56.00	-26.18	peak	
5		2.1500	30.35	0.13	30.48	56.00	-25.52	peak	
6		2.8900	29.66	0.14	29.80	56.00	-26.20	peak	

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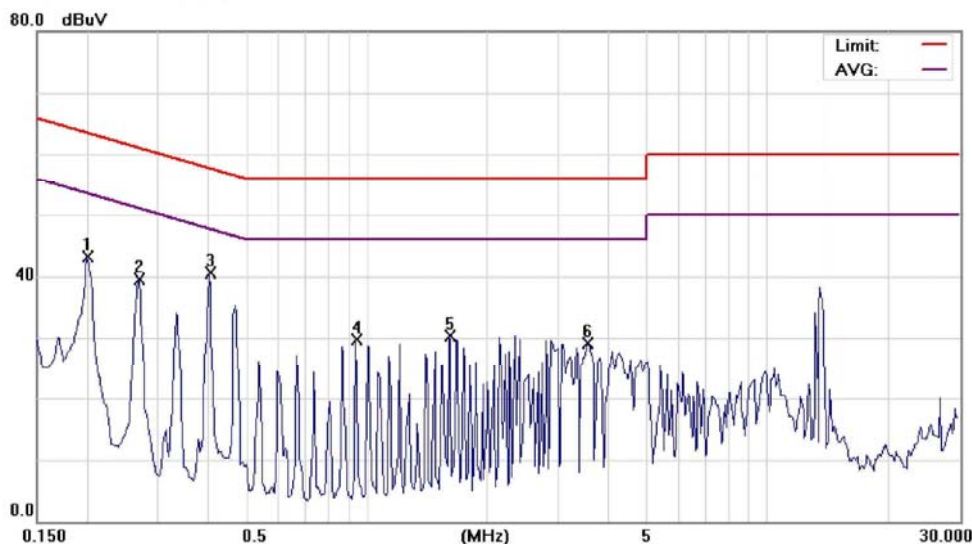
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f (886-2) 2298-0488

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Operation Mode:	RFID Operation Mode		Test Date:	Mar. 08, 2010	
Temperature:	23 °C	Humidity:	58 %	Test By:	Jason



Site SGS CONDUCTED #1

Phase: N

Temperature: 23 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Personal Digital Assistant

Distance:

Air Pressure: hpa

M/N: MAJ-1901 For PDA

Note: RFID Operation

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2000	42.98	0.14	43.12	63.61	-20.49	peak	
2		0.2700	39.29	0.13	39.42	61.12	-21.70	peak	
3	*	0.4050	40.40	0.11	40.51	57.75	-17.24	peak	
4		0.9400	29.51	0.12	29.63	56.00	-26.37	peak	
5		1.6100	30.22	0.14	30.36	56.00	-25.64	peak	
6		3.5600	29.03	0.17	29.20	56.00	-26.80	peak	

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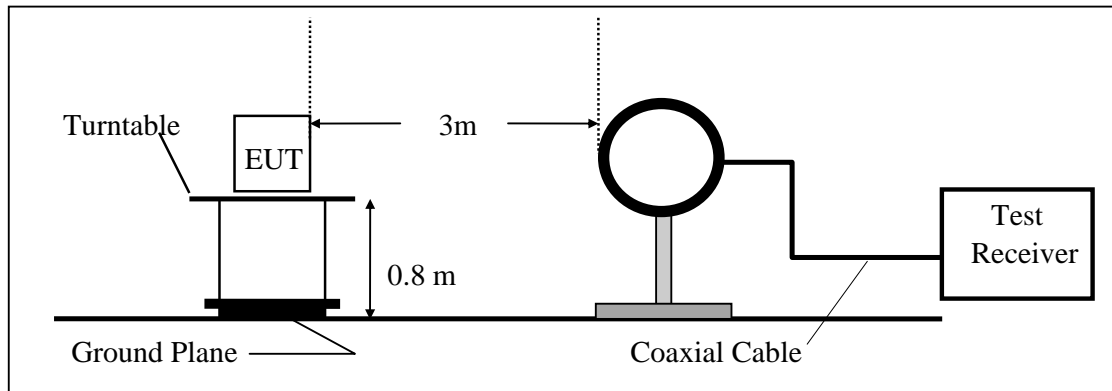
## 6 Radiated Emission Test

### 6.1 Measurement Procedure

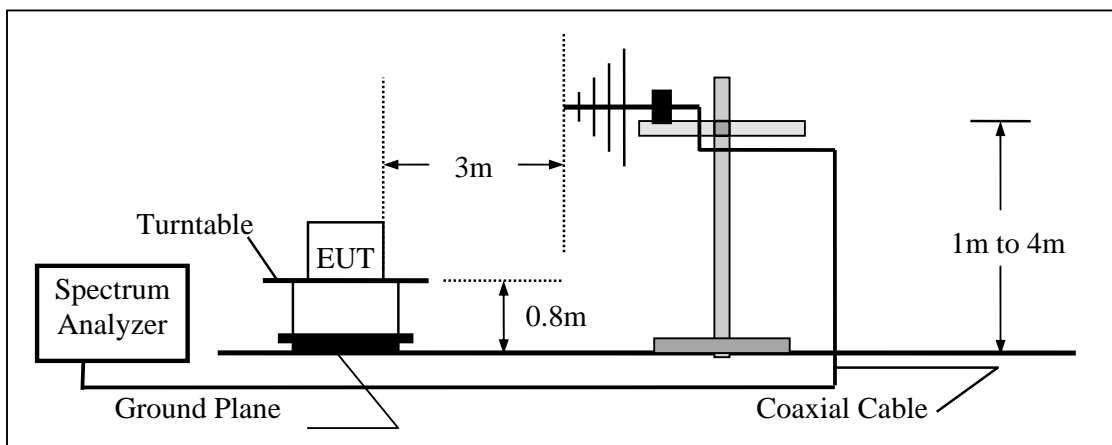
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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### 6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/28/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	102189	05/13/2008	05/12/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

### 6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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## 6.5 Measurement Result

Operation Mode: Transmitting Mode  
 Fundamental Frequency: 13.56 MHz  
 Temperature : 25 °C  
 Humidity : 65 %

Test Date : Mar. 08, 2010  
 Test By: Jason  
 Pol: Vertical

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
13.56	V	Peak	86.38	-5.30	81.08	123.99	-42.91	F
27.12	V	Peak	34.88	-0.22	34.66	69.54	-34.88	H
104.69	V	Peak	44.73	-16.63	28.10	43.50	-15.40	E
256.98	V	Peak	38.32	-13.67	24.65	46.00	-21.35	E
429.64	V	Peak	36.27	-9.14	27.13	46.00	-18.87	E
664.38	V	Peak	36.57	-5.01	31.56	46.00	-14.44	E
725.49	V	Peak	37.99	-4.67	33.32	46.00	-12.68	E

### Remark :

- (1) Measuring frequencies from 25 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

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Operation Mode: Transmitting Mode  
 Fundamental Frequency: 13.56 MHz  
 Temperature : 25 °C  
 Humidity : 65 %

Test Date : Mar. 08, 2010  
 Test By: Jason  
 Pol: Horizontal

Freq. (MHz)	Ant.Pol. H/V	Detecter Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
13.56	H	Peak	79.42	-5.30	74.12 0.00	123.99	-49.87	F
27.12	H	Peak	32.15	-0.22	31.93	69.54	-37.61	H
58.13	H	Peak	40.80	-14.66	26.14	40.00	-13.86	E
208.48	H	Peak	40.13	-15.32	24.81	43.50	-18.69	E
256.98	H	Peak	39.02	-13.67	25.35	46.00	-20.65	E
390.84	H	Peak	37.99	-10.31	27.68	46.00	-18.32	E
882.63	H	Peak	33.42	-1.42	32.00	46.00	-14.00	E

Remark :

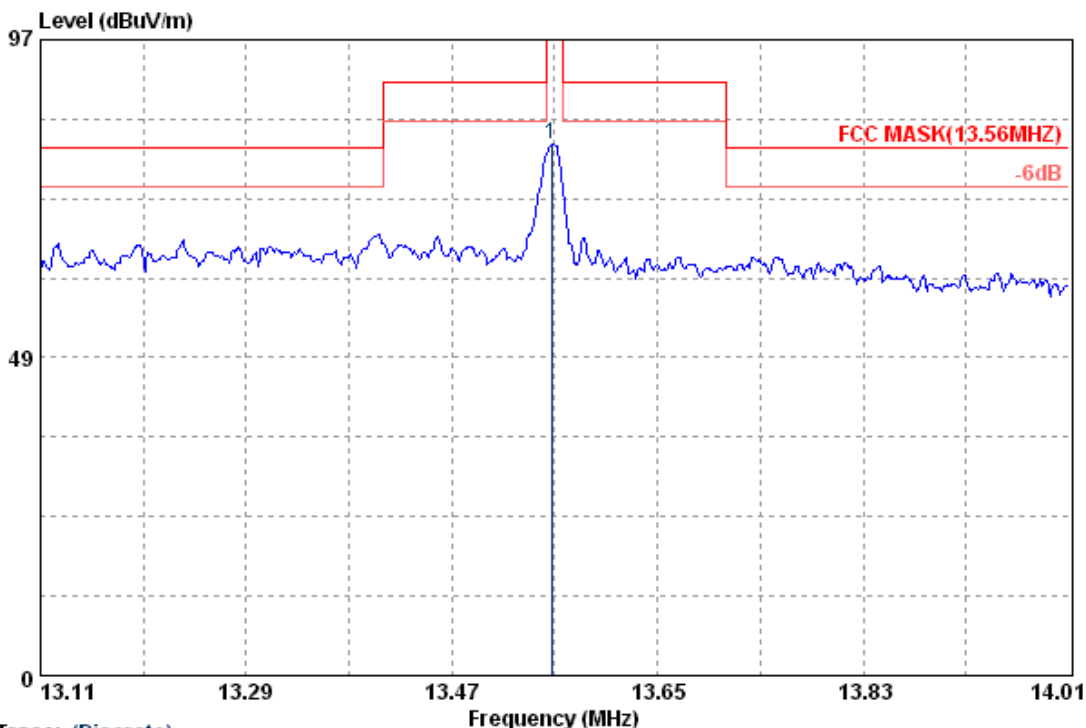
- (1) Measuring frequencies from 25 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

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## Radiated Mask Vertical



Trace: (Discrete)

Condition : FLA30 VERTICAL  
 Project No. : ER/2010/20002  
 Applicant : Olympus  
 EUT Description : Personal Digital Assistant(M3)  
 EUT Model : MAJ-1901  
 Test Mode : Y Plan//Tx Mode//Mask  
 Temp./Humid. : 25/65  
 Operator : Jason

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 @	13.56	86.38	22.82	28.50	0.38	-5.30	81.08	124.00	-42.92	Peak

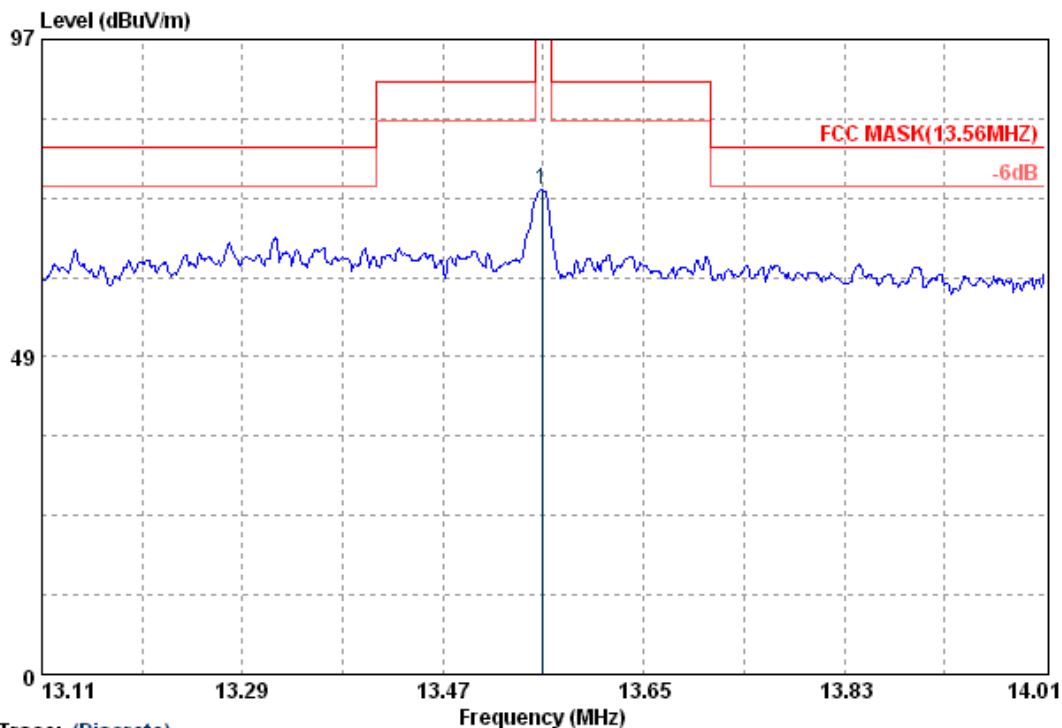
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## Radiated Mask Horizontal



Trace: (Discrete)

Condition : FLA30 HORIZONTAL  
Project No. : ER/2010/20002  
Applicant : Olympus  
EUT Description : Personal Digital Assistant(M3)  
EUT Model : MAJ-1901  
Test Mode : Y Plan//Tx Mode//Mask  
Temp./Humid. : 25/65  
Operator : Jason

	Freq	ReadAntenna	Preamp	Cable		Limit	Over		
	MHz	Level	Factor	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 @	13.56	79.42	22.82	28.50	0.38	-5.30	74.12	124.00	-49.88 Peak

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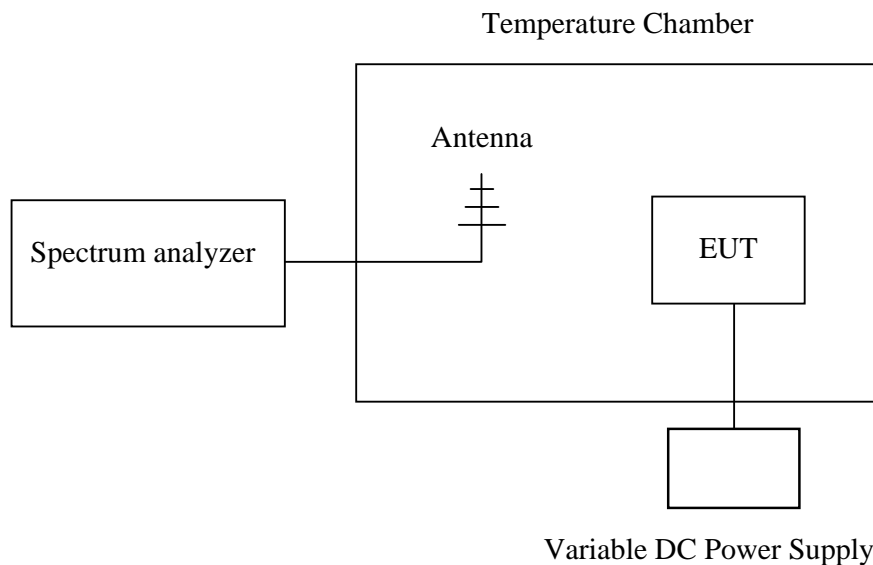
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## 7 Frequency Tolerance

### 7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
4. Set SPA Max hold. Mark peak, -26dB.

### 7.2 Test SET-UP (Block Diagram of Configuration)



### 7.3 Measurement Equipment Used:

Same as 6.2 Radiated Emission Measurement.

### 7.4 Measurement Results

Refer to attached data chart.

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**A. Temperature Variation**

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
3.7	-20	13.559616	-109.00	+/- 1.356
3.7	-10	13.559533	-26.00	+/- 1.356
3.7	0	13.559499	8.00	+/- 1.356
3.7	10	13.559516	-9.00	+/- 1.356
3.7	20	13.559507	0.00	+/- 1.356
3.7	30	13.559591	-84.00	+/- 1.356
3.7	40	13.559549	-42.00	+/- 1.356
3.7	50	13.559491	16.00	+/- 1.356

**B. Supply Voltage Variation**

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature (°C)	(MHz)		
4.255	20	13.559499	8.00	+/- 1.356
3.7	20	13.559507	0.00	+/- 1.356
3.145	20	13.559524	-17.00	+/- 1.356

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