



SAR TEST REPORT

Test Report No. : 28BE0121-HO-02-B-R1

Applicant : Sony Corporation
Type of Equipment : Personal Communicator
Model No. : COM-2
FCC ID : AK8COM2
Test standard : FCC47CFR 2.1093
FCC OET Bulletin 65, Supplement C
Test Result : Complied
Max. SAR Value : Body 1.31W/kg (2412MHz)
: Head 0.00997W/kg (2437MHz)

1. This test report shall not be reproduced except full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the above standard. We hereby certify that the data contain a true representation of the SAR profile.
4. The test results in this test report are traceable to the national or international standards.
5. Original test report number of this report is 28BE0121-HO-02-B.

Date of test:

November 15 to 29, 2007

Tested by:

Hisayoshi Sato
EMC Services

Approved by :

Hironobu Shimoji
Assistant Manager of EMC Services



NVLAP LAB CODE: 200572-0

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*As for the range of Accreditation in NVLAP, you may refer to the WEB address, <http://uljapan.co.jp/emc/nvlap.htm>

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MF060b (18.06.07)

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SECTION 1: Client information

Company Name : Sony EMCS Corporation Nagano TEC *
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Telephone Number : +81-263-72-5696
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Contact Person : Masami Ogawa

* Sony EMCS Corporation Nagano TEC is on behalf of the applicant: Sony Corporation.

SECTION 2 : Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Personal Communicator
Model No. : COM-2
Serial No. : 30610230 3000044
Rating : 5.2V (AC adapter), 3.7V (Battery)
Battery : Model Name : COMA-BP1
Type : LITHIUM ION BATTERY
Rating : 3.7V, 1200mAh
Manufacture : SONY
Option Battery : N/A
Accessories : Headphone (Bundled item)
Belt clip (No bundled item)
Size : About W: 131mm×H: 65mm×L: 21mm
Category Identified : Portable device
Country of Manufacture : Japan
Receipt Date of Sample : November 15, 2007
Condition of EUT : Engineering prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT : No modification by the test lab.

2.2 Product Description

Model No: COM-2 is the Personal Communicator.

Equipment Type : Transceiver
Frequency of Operation : 2412 – 2462MHz
Other Clock Frequency : 133MHz, 39MHz, 12MHz
Type of Modulation : DSSS, OFDM
Antenna Type : Inverted F type
Antenna Gain : -0.21dBi
Antenna Connector Type : I-PEX MHF2
Power Supply : DC3.0V and DC1.8V
Maximum Output Power (FCC 15.247): 21.66 dBm (146.55mW)

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SECTION 3 : Test standard information

3.1 Requirements for compliance testing defined by the FCC

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

1 Specific Absorption Rate (SAR) is a measure of the rate of energy absorption due to exposure to an RF transmitting source (wireless portable device).

2 IEEE/ANSI Std. C95.1-1992 limits are used to determine compliance with FCC ET Docket 93-62.

3.2 Exposure limit

(A) Limits for Occupational/Controlled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.4	8.0	20.0

(B) Limits for General population/Uncontrolled Exposure (W/kg)

Spatial Average (averaged over the whole body)	Spatial Peak (averaged over any 1g of tissue)	Spatial Peak (hands/wrists/feet/ankles averaged over 10g)
0.08	1.6	4.0

Occupational/Controlled Environments: are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

General Population/Uncontrolled Environments: are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**NOTE:GENERAL POPULATION/UNCONTROLLED EXPOSURE
SPATIAL PEAK(averaged over any 1g of tissue) LIMIT
1.6 W/kg**

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3.3 Result of Maximum. SAR value

Maximum. SAR value : Body 1.31W/kg (2412MHz)
: Head 0.00997W/kg (2437MHz)

3.4 Test Location

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SECTION 4 : Operation of E.U.T. during testing

4.1 Confirmation before SAR testing

Correlation of EMC power and SAR power (WLAN IEEE802.11b/g)
EUT was measured antenna terminal power with a power meter connected to the antenna port.

Output Peak Power test

As for the peak power, the data of EMC and SAR power is shown .
It was checked that the antenna port power is correlated within 0~+5% (FCC requirements) at EMC test result.

The power data of EMC is equal to the power data of EMC test based on the following reason.

- EMC and SAR tests are performed with the same test sample under the same condition.
- EMC and SAR tests are performed at the same laboratory.
- The test mode setting is simple, and there is no possibility that the power (value) is changed by the wrong setting.

The result is shown in section 6.1.

4.2 Confirmation after SAR testing

It was checked that the power drift is within $\pm 5\%$ in the evaluation procedure of SAR testing.
The result is shown in APPENDIX 2.

4.3 Operating modes for SAR testing

4.3.1 Setting of EUT

1. IEEE 802.11b mode (2412-2462 band)

Tx frequency band : 2412-2462MHz
Channel : 1ch(2412MHz), 6ch(2437MHz), 11ch(2462MHz)
Modulation : DSSS (DBPSK, DQPSK, CCK)
Crest factor : 1.0

2. IEEE 802.11g mode (2412-2462 band)

Tx frequency band : 2412-2462MHz
Channel : 1ch(2412MHz), 6ch(2437MHz), 11ch(2462MHz)
Modulation : OFDM (BPSK, QPSK, 16QAM, 64QAM)
Crest factor : 1.0

4.4 Measurement procedure

Radiated power is always monitored by Spectrum analyzer.

4.4.1 Head SAR 2450MHz

1. IEEE 802.11b

The CCK (11Mbps) of the highest data rate and the highest average power*.

Therefore, we decided CCK(11Mbps) was worst modulation.

Step1. The searching for the worst position

Step2. The test for the Low and High channels

This test was performed at the worst conditions of Step1.

2. IEEE 802.11g

Step3. The searching for the worst modulation

The data rate in the higher average power* each modulation was decided, then the worst modulation was searched in the SAR testing.

Step4. The searching for the worst position

This test was performed at the worst modulation of Step3.

Step5. The test for the Low and High channels

This test was performed at the worst conditions of Step4 .

4.4.2 Body SAR 2450MHz

1. IEEE 802.11b

The CCK (11Mbps) of the highest data rate and the highest peak power*.

Therefore, we decided CCK(11Mbps) was worst modulation.

Step1. The searching for the worst position

Step2. The test for the Low and High channels

This test was performed at the worst conditions of Step1.

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2. IEEE 802.11g

Step3. The searching for the worst modulation

The data rate in the higher peak power* each modulation was decided, then the worst modulation was searched in the SAR testing.

Step4. The searching for the worst position

This test was performed at the worst modulation of Step3.

Step5. The test for the Low and High channels

This test was performed at the worst conditions of Step4 .

3. Change distance between EUT and SAM Twin Phantom

Step6. Change distance between EUT and SAM Twin Phantom

The measurement was performed with the distance, 5mm,10mm and 15mm to check if the shortest distance may not have the worst value at the conditions of the highest SAR value.

* Refer to Section 6.1

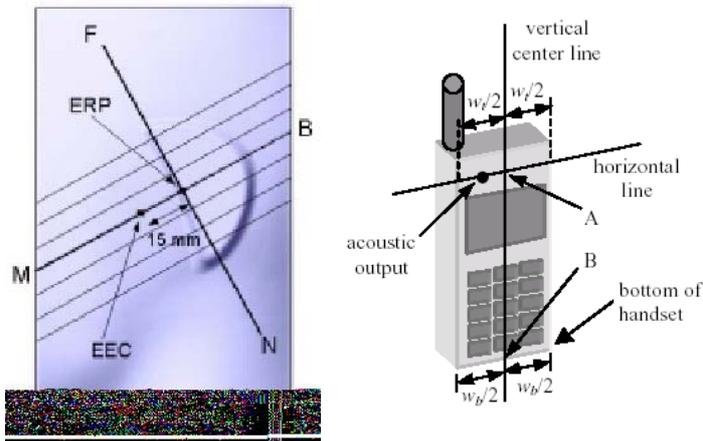
4.5 Description of the head test setup

According to the OET 65, IEEE1528, and IEC62209-1 this EUT was tested on the “Cheek/Touch” and “Ear/Tilt” positions at the left head and right head section of the SAM phantom.

4.5.1 Initial ear position

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom.

The device should be positioned parallel to the “N-F” line defined along the base of the ear spacer that contains the “ear reference point”. The “test device reference point” is aligned to the “ear reference point” on the head phantom and the “vertical centerline” is aligned to the “phantom reference plane”.



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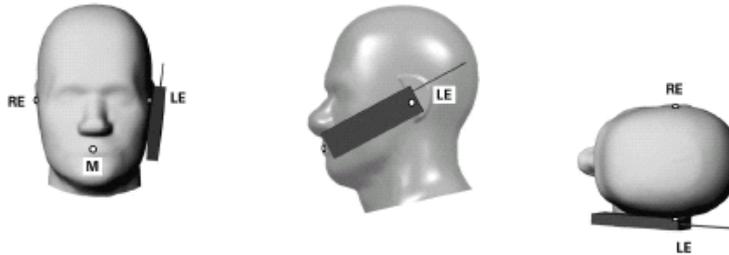
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4.5.2 Check position

The device is brought toward the mouth of the head phantom by pivoting against the “ear reference point” or along the “N-F” line.

This test position is established:

- i) When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.
- ii) (or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.



4.5.3 Tilt position

If the earpiece of the handset is not in full contact with the phantom’s ear spacer and the peak SAR location for the “Cheek/Touch” position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the “initial ear position” by rotating it away from the mouth until the earpiece is in full contact with the ear spacer. Otherwise the handset should be moved away from the cheek perpendicular to the line passes through both “ear reference points” for approximate 2-3 cm. While it is in this position, the handset is tilted away from the mouth with respect to the “test device reference point” by 15°. After the tilt, it is then moved back toward the head perpendicular to the line passes through both “ear reference points” until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously.



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4.6 Test setup of EUT

When users operate the EUT, it could be considered to touch or get close to their bodies. In order to assume this situation, we performed the test at the following positions. Please refer to "APPENDIX 1" for more details.

Body SAR 2450MHz

(1) Front:

The test was performed in touch with front surface to the SAM twin phantom.

(2) Bottom:

The test was performed in touch with bottom surface to the SAM twin phantom.

(3) Top:

The test was performed in touch with top surface to the SAM twin phantom.

(4) Left side:

The test was performed in touch with left side surface to the SAM twin phantom.

(5) Rear:

The test was performed in touch with rear surface to the SAM twin phantom.

(6) Rear (slide keyboard):

The test was performed in touch with rear surface to the SAM twin phantom.

(7) Rear (with belt clip)* :

The tests were performed with the EUT with the belt clip.

The test was performed in touch with belt clip surface to the SAM twin phantom.

(8) Rear (separation 5mm) :

The measurement opened 5mm distance between the EUT and the SAM twin phantom.

(9) Rear (separation 10mm) :

The measurement opened 10mm distance between the EUT and the SAM twin phantom.

(10) Rear (separation 15mm) :

The measurement opened 15mm distance between the EUT and the SAM twin phantom.

Head SAR 2450MHz

(1) Right tilt:

The test was performed in touch with right tilt position surface to the ear reference point of right head of the SAM twin phantom.

(2) Right cheek:

The test was performed in touch with right cheek position surface to the ear reference point of right head of the SAM twin phantom.

(3) Left tilt:

The test was performed in touch with left tilt position surface to the ear reference point of left head of the SAM twin phantom.

(4) Left cheek:

The test was performed in touch with left cheek position surface to the ear reference point of left head of the SAM twin phantom.

*Reference data page 40 and 52.

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SECTION 5 : Test surrounding

5.1 Measurement uncertainty

The uncertainty budget has been determined for the DASY4 measurement system according to the SPEAG documents[6][7] and is given in the following Table.

Error Description	Uncertainty value \pm %	Probability distribution	divisor	(ci) 1g	Standard Uncertainty (1g)	vi or veff
Measurement System						
Probe calibration	± 6.8	Normal	1	1	± 6.8	
Axial isotropy of the probe	± 4.7	Rectangular	$\sqrt{3}$	$(1-cp)^{1/2}$	± 1.9	∞
Spherical isotropy of the probe	± 9.6	Rectangular	$\sqrt{3}$	$(cp)^{1/2}$	± 3.9	∞
Boundary effects	± 2.0	Rectangular	$\sqrt{3}$	1	± 1.2	∞
Probe linearity	± 4.7	Rectangular	$\sqrt{3}$	1	± 2.7	∞
Detection limit	± 1.0	Rectangular	$\sqrt{3}$	1	± 0.6	∞
Readout electronics	± 0.3	Normal	1	1	± 0.3	∞
Response time	± 0.8	Rectangular	$\sqrt{3}$	1	± 0.5	∞
Integration time	± 2.6	Rectangular	$\sqrt{3}$	1	± 1.5	∞
RF ambient Noise	± 3.0	Rectangular	$\sqrt{3}$	1	± 1.7	∞
RF ambient Reflections	± 3.0	Rectangular	$\sqrt{3}$	1	± 1.7	∞
Probe Positioner	± 0.8	Rectangular	$\sqrt{3}$	1	± 0.5	∞
Probe positioning	± 9.9	Rectangular	$\sqrt{3}$	1	± 5.7	∞
Max.SAR Eval.	± 4.0	Rectangular	$\sqrt{3}$	1	± 2.3	∞
Test Sample Related						
Device positioning	± 2.9	Normal	1	1	± 2.9	38
Device holder uncertainty	± 3.6	Normal	1	1	± 3.6	13
Power drift	± 5.0	Rectangular	$\sqrt{3}$	1	± 5.8	∞
Phantom and Setup						
Phantom uncertainty	± 4.0	Rectangular	$\sqrt{3}$	1	± 2.3	∞
Liquid conductivity (target)	± 5.0	Rectangular	$\sqrt{3}$	0.64	± 1.8	∞
Liquid conductivity (meas.)	± 5.0	Rectangular	1	0.64	± 3.2	∞
Liquid permittivity (target)	± 5.0	Rectangular	$\sqrt{3}$	0.6	± 1.7	∞
Liquid permittivity (meas.)	± 5.0	Rectangular	1	0.6	± 3.0	∞
Combined Standard Uncertainty					± 13.48	
Expanded Uncertainty (k=2)					± 26.96	

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SECTION 6 : Confirmation before SAR testing

6.1 EMC Power and SAR Power

The power data of EMC is the same SAR's.

The EMC and SAR power tests were measured before SAR tests.

This data is reference data of EMC test. (Report No. 28BE0121-HO-02-A-R1)

FCC15.247 Maximum Output Peak Power

Date: November 15, 2007

[IEEE802.11b] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
CCK	11Mbps	2412.0	3.15	0.60	10.02	13.77	23.82
CCK	11Mbps	2437.0	3.92	0.60	10.02	14.54	28.44
CCK	11Mbps	2462.0	3.56	0.60	10.02	14.18	26.18

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

[IEEE802.11g] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
64QAM	48Mbps	2412.0	10.66	0.60	10.02	21.28	134.28
64QAM	48Mbps	2437.0	11.04	0.60	10.02	21.66	146.55
64QAM	48Mbps	2462.0	10.68	0.60	10.02	21.30	134.90

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

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Reference power data (The worst rate in the SAR testing)

[IEEE802.11b] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
11b CCK	11Mbps *1	2412.0	3.15	0.60	10.02	13.77	23.82
		2437.0	3.92	0.60	10.02	14.54	28.44
		2462.0	3.56	0.60	10.02	14.18	26.18

*1 The worst rate in Head and Body SAR testing

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

[IEEE802.11g] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
11g BPSK	6Mbps *2	2412.0	10.65	0.60	10.02	21.27	133.97
		2437.0	10.83	0.60	10.02	21.45	139.64
		2462.0	10.84	0.60	10.02	21.46	139.96
11g 16QAM	36Mbps *3	2412.0	10.67	0.60	10.02	21.29	134.59
		2437.0	10.96	0.60	10.02	21.58	143.88
		2462.0	10.93	0.60	10.02	21.55	142.89

*2 The worst rate in Head SAR testing

*3 The worst rate in Body SAR testing

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

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Reference power data (Data rate determination)

[IEEE802.11b] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
DBPSK	1Mbps	2437.0	3.33	0.60	10.02	13.95	24.83
DQPSK	2Mbps	2437.0	3.65	0.60	10.02	14.27	26.73
CCK	5.5Mbps	2437.0	3.50	0.60	10.02	14.12	25.82
CCK	11Mbps	2437.0	3.92	0.60	10.02	14.54	28.44

Maximum

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

[IEEE802.11g] Peak power

Modulation	Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
						[dBm]	[mW]
BPSK	6Mbps	2437.0	10.83	0.60	10.02	21.45	139.64
BPSK	9Mbps	2437.0	10.54	0.60	10.02	21.16	130.62
QPSK	12Mbps	2437.0	10.96	0.60	10.02	21.58	143.88
QPSK	18Mbps	2437.0	10.47	0.60	10.02	21.09	128.53
16QAM	24Mbps	2437.0	10.89	0.60	10.02	21.51	141.58
16QAM	36Mbps	2437.0	10.96	0.60	10.02	21.58	143.88
64QAM	48Mbps	2437.0	11.04	0.60	10.02	21.66	146.55
64QAM	54Mbps	2437.0	10.35	0.60	10.02	20.97	125.03

Maximum

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

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SECTION 7 : Measurement results

7.1 Body SAR 2450MHz

Date : **November 15, 2007** Measured By : **Hisayoshi Sato**
Liquid Depth (cm) : **15.0** Model : **COM-2**
Parameters : $\epsilon_r = 50.1, \sigma = 2.02$ Serial No. : **30610230 3000044**
Ambient temperature (deg.c.) : **24.5** Modulation : **DSSS, OFDM**
Relative Humidity (%) : **41** Crest factor : **1**

Date : **November 28, 2007** Measured By : **Hisayoshi Sato**
Liquid Depth (cm) : **15.0** Model : **COM-2**
Parameters : $\epsilon_r = 50.1, \sigma = 1.94$ Serial No. : **30610230 3000044**
Ambient temperature (deg.c.) : **24.1** Modulation : **DSSS, OFDM**
Relative Humidity (%) : **44** Crest factor : **1**

BODY SAR MEASUREMENT RESULTS											
Frequency		Modulation (Data rate[bps])	Phantom Section	EUT Set-up Conditions			Liquid Temp.[deg.c]		SAR(1g) [W/kg]		
Mode	Channel [MHz]			Antenna	Position	Separation [mm]	Before	After	Maximum value of multi-peak		
11b	Step 1. Position search										
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Front	0	23.5	23.5	0.00859	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Bottom	0	23.4	23.4	0.194	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Top	0	23.4	23.4	0.012	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Left side	0	23.5	23.5	0.013	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Rear	0	23.4	23.4	0.796	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Rear (slide keyboard)	0	23.5	23.5	0.597	
	Mid	2437	CCK(11Mbps)	Flat	Fixed	Rear(with belt clip)	0	23.4	23.4	0.328*	
	Step 2. Frequency Change										
	Low	2412	CCK(11Mbps)	Flat	Fixed	Rear	0	23.5	23.5	1.22	
	High	2462	CCK(11Mbps)	Flat	Fixed	Rear	0	23.5	23.5	0.732	
	11g	Step 3. Modulation search									
		Mid	2437	BPSK(6Mbps)	Flat	Fixed	Rear	0	23.5	23.5	0.826
		Mid	2437	QPSK(12Mbps)	Flat	Fixed	Rear	0	23.5	23.5	0.927
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Rear	0	23.4	23.4	1.14	
Mid		2437	64QAM(48Mbps)	Flat	Fixed	Rear	0	23.4	23.4	0.617	
Step 4. Position search											
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Front	0	23.4	23.4	0.00714	
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Bottom	0	23.4	23.4	0.173	
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Top	0	23.4	23.4	0.012	
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Left side	0	23.4	23.4	0.011	
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Rear (slide keyboard)	0	23.4	23.4	0.510	
Mid		2437	16QAM(36Mbps)	Flat	Fixed	Rear(with belt clip)	0	23.4	23.4	0.301*	
Step5. Frequency Change											
Low		2412	16QAM(36Mbps)	Flat	Fixed	Rear	0	23.6	23.6	1.31	
High	2462	16QAM(36Mbps)	Flat	Fixed	Rear	0	23.6	23.6	0.678		
11g	Step 6. Separation Change										
	High	2412	16QAM(36Mbps)	Flat	Fixed	Rear	5	23.5	23.5	0.469	
	High	2412	16QAM(36Mbps)	Flat	Fixed	Rear	10	23.5	23.5	0.176	
	High	2412	16QAM(36Mbps)	Flat	Fixed	Rear	15	23.5	23.5	0.090	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body SAR: 1.6 W/kg				
Spatial Peak Uncontrolled Exposure / General Population							(averaged over 1 gram)				

* Reference data

7.2 Head SAR 2450MHz

Date : November 29, 2007 Measured By : Hisayoshi Sato
Liquid Depth (cm) : 15.0 Model : COM-2
Parameters : $\epsilon_r = 37.4, \sigma = 1.89$ Serial No. : 30610230 3000044
Ambient temperature (deg.c.) : 23.9 Modulation : DSSS, OFDM
Relative Humidity (%) : 43 Crest factor : 1

HEAD SAR MEASUREMENT RESULTS											
Frequency			Modulation (Data rate[bps])	Phantom Section	EUT Set-up Conditions			Liquid Temp.[deg.c]		SAR(1g) [W/kg] Maximum value of multi-peak	
Mode	Channel	[MHz]			Antenna	Position	Separation [mm]	Before	After		
11b	Step1. Position search										
	Mid	2437	CCK(11Mbps)	Right head	Fixed	Right tilt	0	23.4	23.4	0.00609	
	Mid	2437	CCK(11Mbps)	Right head	Fixed	Right cheek	0	23.4	23.4	0.00335	
	Mid	2437	CCK(11Mbps)	Left head	Fixed	Left tilt	0	23.4	23.4	0.00291	
	Mid	2437	CCK(11Mbps)	Left head	Fixed	Left cheek	0	23.4	23.4	0.00380	
	Step2. Frequency Change										
	Low	2412	CCK(11Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00976	
	High	2462	CCK(11Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00740	
	11g	Step1. Modulation search									
		Mid	2437	BPSK(6Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00966
Mid		2437	QPSK(12Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00860	
Mid		2437	16QAM(36Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00881	
Mid		2437	64QAM(48Mbps)	Right head	Fixed	Right tilt	0	23.3	23.3	0.00683	
Step2. Position search											
Mid		2437	BPSK(6Mbps)	Right head	Fixed	Right cheek	0	23.4	23.4	0.00641	
Mid		2437	BPSK(6Mbps)	Left head	Fixed	Left tilt	0	23.4	23.1	0.00450	
Mid		2437	BPSK(6Mbps)	Left head	Fixed	Left cheek	0	23.3	23.3	0.00997	
Step3. Frequency Change											
Low	2412	BPSK(6Mbps)	Left head	Fixed	Left cheek	0	23.3	23.3	0.00918		
High	2462	BPSK(6Mbps)	Left head	Fixed	Left cheek	0	23.3	23.3	0.00569		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure / General Population								Head SAR: 1.6 W/kg (averaged over 1 gram)			