



SAR TEST REPORT

Test Report No.: 10046872S-A

Applicant : Canon Inc.
Type of Equipment : Wireless Module
Model No. : RF401 (*. Installed into the RF401's platform (2))
FCC ID : AZD401
Test Standard : FCC 47CFR §2.1093
Test Result : Complied

Highest Reported SAR(1g) Value	Platform #	Platform type	Platform model	Remarks
0.35 W/kg	Platform (2)	HD Camcorder	ID0036	(DTS) 2462MHz, IEEE 802.11b, (1Mbps, DBPSK/DSSS) * Highest measured SAR(1g) value: 0.261 W/kg (output power: 13.21dBm)
[SAR test history of RF401 (FCCID: AZD401)]				
< 0.1 W/kg	Platform (1)	Digital Video Camcorder	ID0032	(DTS) 2437MHz, IEEE 802.11n(40HT), (MCS0, BPSK/OFDM) * Highest measured SAR(1g) value: 0.042 W/kg (output power: 13.49dBm)
	The date of SAR tested: May 16, 2013. This tested result was referred to the test report of 1005570S-A published by UL Japan, Inc., Shonan EMC Lab...			

*. **Highest reported SAR (1g) across exposure conditions for all platforms = "0.35 W/kg" = grant listing.**
 *. Since highest reported SAR (1g) on all platforms which obtained in accordance with KDB447498 (v05) were under 0.8 W/kg, this EUT was approved to operate on multi-platform.

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Date of test: September 17 and 25, 2013

Test engineer: *H. Naka*
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 There is no testing item of "Non-accreditation".

REVISION HISTORY

Revision	Test report No.	Date	Page revised	Contents
Original	10046872S-A	October 2, 2013	-	-

*. By issue of new revision report, the report of an old revision becomes invalid.

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SECTION 1: Customer information

Company Name	Canon Inc.
Brand Name	Canon
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SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

Type of Equipment	Wireless Module (*. Platform (2): HD Camcorder)
Model Number	RF401 (*. Platform (2): ID0036)
Serial Number	E8036C (*. Platform (2): 141)
Condition of EUT	Production model (*. Platform (2): Engineering prototype (*. Not for sale: This sample is equivalent to mass-produced items.))
Receipt Date of Sample	September 17, 2013 (*. EUT for the power measurement.) September 24, 2013 (*. EUT for the SAR test. The EUT that had been measured the power of SAR test reference, was installed into the Platform (2) from the beginning.) *. After power measurement, the EUT was returned to the customer, and the RF wiring was changed to the original antenna line form the antenna conducted power measurement line of the SAR test. The EUT was installed into a Platform (2) which SAR tested, by the customer. No modification by the Lab.
Country of Mass-production	RF401: Philippines (*. Platform (2): China)
Category Identified	Portable device *. Since EUT may contact to a human body during Wi-Fi operation, the partial-body SAR (1g) shall be observed by body liquid. *. Since EUT may use at front-of-face's condition during Wi-Fi operation, the partial-body SAR (1g) shall be observed by head liquid.
Rating	DC3.3V supplied form the platform equipment. *. The EUT is installed to the specified platform that was operated by either the re-chargeable Li-ion battery or ac adaptor.
Feature of EUT	The EUT is a Wireless Module which installs into the multi-platform.
SAR Accessory	None

2.2 Product Description (Wireless module: RF401)

Equipment type	Transceiver
Frequency of operation	2412-2462MHz (11b,11g,,11n(20HT)), 2422-2452MHz (11n(40HT))
Channel spacing	5MHz
Bandwidth	20MHz(11b,11g,,11n(20HT)), 40MHz(11n(40HT))
ITU code	G1D, D1D
Type of modulation	DSSS(11b): CCK, DQPSK, DBPSK OFDM(11g,11n(20HT),11n(40HT)): 64QAM, 16QAM, QPSK, BPSK
Q'ty of Antenna	1 pc.
Antenna type	Monopole type chip antenna
Antenna gain (peak)	-0.94dBi
Transmit power and tolerance (Manufacture variation)	11b: 12dBm ±2.5dBm 11n(20HT): 12dBm ±2.5dBm 11g: 12dBm ±2.5dBm 11n(40HT): 12dBm ±2.5dBm *. Refer to clause 2.3 for more detail. *. The measured Tx output power (conducted) refers to section 6 in this report.
Maximum output power which may possible	11b: 14.5dBm 11n(20HT): 14.5dBm 11g: 14.5dBm 11n(40HT): 14.5dBm *. Refer to clause 2.4 for more detail.
Power supply	DC 3.3V (*. The power of DC3.3V is supplied from the platform via constant voltage circuit.)
Operation temperature range	-20 to +85 deg.C

*. The EUT do not use the special transmitting technique such as "beam-forming" and "time-space code diversity."

2.3 Tx output power specification (antenna port terminal conducted)

		Target Power (Tx output power specification) [dBm] (average)																											
		11b					11g					11n(20HT)																	
[MHz]	CH	1	2	5.5	11	6	9	12	18	24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2412	1	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2417	2	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2422	3	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2427	4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2432	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2437	6	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2442	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2447	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2452	9	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2457	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2462	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

		Target Power (Tx output power specification) [dBm] (average)															
		11n(40HT)															
[MHz]	CH	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2422	3	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2427	4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2432	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2437	6	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2442	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2447	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2452	9	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

2.4 Maximum output power which may possible

		Maximum output power which may possible [dBm] (average)																											
		11b					11g					11n(20HT)																	
[MHz]	CH	1	2	5.5	11	6	9	12	18	24	36	48	54	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2412	1	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2417	2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2422	3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2427	4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2432	5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2437	6	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2442	7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2447	8	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2452	9	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2457	10	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2462	11	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

		Maximum output power which may possible [dBm] (average)															
		11n(40HT)															
[MHz]	CH	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15
2422	3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2427	4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2432	5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2437	6	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2442	7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2447	8	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2452	9	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5

SECTION 3: Test specification, procedures and results

3.1 Test specification

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. 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 in accordance with the following measurement procedures..

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.

KDB 447498 D01 (v05r01): General RF exposure guidance

KDB 248227 D01 (v01r02): SAR Measurement Procedures for 802.11a/b/g Transmitters

KDB 865664 D01 (v01r01): SAR measurement 100MHz to 6GHz

IEEE Std. 1528-2003: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

- *. In this report, IEC 62209-1:2005 and IEC 62209-2:2010-03 are also considered as reference. The comment is attached to the portion to which IEC 62209-1 and IEC 62209-2 were referred to specially.

3.2 Exposure limit

Environments of exposure limit	Whole-Body (averaged over the entire body)	Partial-Body (averaged over any 1g of tissue)	Hands, Wrists, Feet and Ankles (averaged over any 10g of tissue)
(A) Limits for Occupational /Controlled Exposure (W/kg)	0.4	8.0	20.0
(B) Limits for General population /Uncontrolled Exposure (W/kg)	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.

The limit applied in this test report is;

General population / uncontrolled exposure, Partial-Body (averaged over any 1g of tissue) limit: 1.6 W/kg

3.3 Procedures and Results

	Wi-Fi (DTS) / in Platform (2)
Test Procedure	SAR measurement: KDB 447498, KDB 248227, KDB 865664, IEC 6220-9-2, IEEE Std.1528
Category	FCC 47CFR §2.1093 (Portable device)
Results (SAR(1g))	Complied
Reported SAR value (*, Scaled)	0.35 W/kg
Measured SAR value	0.261 W/kg
Operation mode, channel	11b, 1Mbps, 2462MHz (11ch)
Power measured/max. (scaled factor)	13.21 dBm/14.5dBm (x1.35)

Note: UL Japan's SAR Work Procedures No.13-EM-W0429 and 13-EM-W0430. No addition, deviation nor exclusion has been made from standards

Test outline: Where this product is built into a new platform, it was verified whether multiplatform conditions can be suited in according with section 2) of 5.2.2.2 in KDB447498 D01 (v05).

Consideration of the test results: **The highest reported SAR (1g) of Platform (2) was kept ≤ 0.8W/kg.**

Since highest reported SAR (1g) on all platforms which obtained in accordance with KDB447498 (v05) was under 0.8 W/kg, this EUT was approved to operate on multi-platform.

3.4 Test Location

No.7 shielded room (2.76m (Width) × 3.76m (Depth) × 2.4m (Height)) for SAR testing.

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3.5 Confirmation before SAR testing

3.5.1 Average power for SAR tests

Before SAR test, the RF wiring for the sample had been switched to the antenna conducted power measurement line from the antenna line and the average power was measured. The result is shown in Section 6.

- *. The EUT transmission power was verified that it was within 2dB lower than the maximum tune-up tolerance limit when it was set the rated power. (Clause 4.1, KDB447498 D01(v05r01))

Step.1 Data rate check

The data rate check was measured for all modes in one of default frequency.

11b		11g		11n(20HT)			11n(40HT)		
Modulation	Data rate [Mbps]	Modulation	Data rate [Mbps]	MCS Index	Spatial Stream	Modulation	MCS Index	Spatial Stream	Modulation
DBPSK/DSSS	1	BPSK/OFDM	6	MCS0	1	BPSK/OFDM	MCS0	1	BPSK/OFDM
DQPSK/DSSS	2	BPSK/OFDM	9	MCS1	1	QPSK/OFDM	MCS1	1	QPSK/OFDM
CCK/DSSS	5.5	QPSK/OFDM	12	MCS2	1	QPSK/OFDM	MCS2	1	QPSK/OFDM
CCK/DSSS	11	QPSK/OFDM	18	MCS3	1	16QAM/OFDM	MCS3	1	16QAM/OFDM
		16QAM/OFDM	24	MCS4	1	16QAM/OFDM	MCS4	1	16QAM/OFDM
		16QAM/OFDM	36	MCS5	1	64QAM/OFDM	MCS5	1	64QAM/OFDM
		64QAM/OFDM	48	MCS6	1	64QAM/OFDM	MCS6	1	64QAM/OFDM
		64QAM/OFDM	54	MCS7	1	64QAM/OFDM	MCS7	1	64QAM/OFDM

Step.2 Consideration of SAR test channel

The following operation mode, data rate and channels were determined by the SAR reference power measured.

Mode	MHz	Channel	default	SAR Tested/Reduced				Remarks
			11b/g/n(20HT)	11b	11g	11n(20HT)	11n(40HT)	
802.11 b/g/n	2412	1 (*1)	√	Reduced (*4)	Reduced (*2)	Reduced (*2)		SAR test were applied to 11b and 11n(40HT) mode, in lowest data rate. (*3)
	2422	3					Reduced (*4)	
	2437	6	√	Reduced (*4)	Reduced (*2)	Reduced (*2)	Tested	
	2452	9					Reduced (*4)	
	2462	11 (*1)	√	Tested	Reduced (*2)	Reduced (*2)		

√ = "default test channels of requested by KDB248227"

- *1. Any output power reducing for channel 1 and 11 to meet restricted band requirements was not observed. Therefore channel 1 and 11 was selected for the default channels of power measurement and SAR test plan.
- *2. Since the measured average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test was only applied to the 11b mode for 20MHz BW operation. (KDB248227) (Refer to Section 6.)
- *3. In 11b and 11n(40HT) mode, since the average power of higher data rate were less than 0.25dB higher than the lowest data rate, SAR test were only applied to the lowest data rate. (KDB248227) (Refer to Section 6.)
- *4. Since the extrapolated maximum peak SAR for the maximum output channel was ≤1.6W/kg and the 1g averaged SAR was ≤0.8W/kg, the testing for other channels were omitted. (KDB248227)

3.6 Confirmation after SAR testing

It was checked that the power drift [W] is within ±5% in the evaluation procedure of SAR testing. The verification of power drift during the SAR test is that DASY5 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

The result is shown in APPENDIX 2.

- *. DASY5 system calculation Power drift value[dB] = 20log(Ea)/(Eb) (where, Before SAR testing: Eb[V/m] / After SAR testing: Ea[V/m])

Limit of power drift[W] = ±5%

Power drift limit (X) [dB] = 10log(P_drift)=10log(1.05/1)=10log(1.05)-10log(1)=0.21dB

from E-filed relations with power.

$S = E \times H = E^2 / \eta = P / (4 \times \pi \times r^2)$ (η : Space impedance) → $P = (E^2 \times 4 \times \pi \times r^2) / \eta$

Therefore, The correlation of power and the E-filed

Power drift limit (X) dB = 10log(P_drift) = 10log(E_drift)^2 = 20log(E_drift)

From the above mentioned, the calculated power drift of DASY5 system must be the less than ±0.21dB.

3.7 Test setup of EUT and SAR measurement procedure

After considering the outline of EUT, the SAR test was carried out on the following setup conditions.

Setup	Explanation of EUT setup position (* Refer to Appendix 1 for test setup photographs.)	Antenna distance [mm]	SAR Tested /Reduced	SAR type
Bottom	The bottom flat surface of platform was touched to the Flat phantom.	9.78	Tested	Body (touch) & Head (front of face)
Bottom-left	The left portion of platform's bottom surface that was near an antenna was touched to the Flat phantom.	4.84	Tested	
Bottom-rear	The rear portion of platform's bottom surface that was near an antenna was touched to the Flat phantom.	≈8	Tested	
Left	The left surface of platform was touched to the Flat phantom.	9.15	Tested	
Top	The top flat surface (LCD side) of platform was touched to the Flat phantom.	19.45	Tested	
Right	The right surface of platform was touched to the Flat phantom.	64.4	Tested	
Front (Lens)	The front section (lens side) of platform was touched to the Flat phantom.	93.44	Tested	
Rear	The rear section of platform was touched to the Flat phantom.	11.2	Tested	

- *. Antenna distance: this means the distance from the EUT antenna inside a platform to the outer surface of platform which an operator may touch.
- *. The LCD and a stand of platform were closed position for all setup described in above.
- *. Size of EUT: 23mm (width) × 12mm (depth) × 2mm (height)
- *. Size of platform: 82.2mm (width) × 108.5mm (depth) × 29.9mm (height) (*, manufacture's specification, when LCD and stands were closed.)

*6. SAR test reduction consideration

KDB 447498 D01 (v05r01) was taken into consideration as other approaches to reduce SAR test.
Parenthesis 1, Clause 4.3.1, KDB 447498 D01 (v05r01) gives the following formula to calculate the SAR(10g) test exclusion thresholds for 100MHz-6GHz at test separation distance ≤50mm.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ (for SAR(1g))} \dots\dots\dots \text{(formula (1))}$$

If power is calculated from the upper formula (1);

$$[\text{SAR(1g) test exclusion thresholds, mW}] = 3 \times [\text{test separation distance, mm}] / [\sqrt{f(\text{GHz})}] \dots\dots\dots \text{(formula (2))}$$

Parenthesis 2, Clause 4.3.1, KDB 447498 D01 (v05r01) gives the following formula to calculate the SAR(10g) test exclusion thresholds for 1.5-6GHz at test separation distance >50mm.

$$[\text{test exclusion thresholds, mW}] = [(\text{Power allowed at numeric threshold for 50mm in formula (1)})] + [(\text{test separation distance, mm}) - (50\text{mm})] \times 10 \text{(formula (3))}$$

According to this formula, the calculated results in typical antenna distance of platform are shown in the following table.

Frequency [GHz]	SAR(1g) test exclusion thresholds [mW]			
	Antenna separation distance [mm]			
	4.84	11	19	64
2.412	9.3 (9.7dBm)	17.4 (12.4dBm)	21.2 (13.2dBm)	36.7 (15.6dBm)
2.437	9.3 (9.6dBm)	17.3 (12.3dBm)	21.1 (13.2dBm)	36.5 (15.6dBm)
2.462	9.3 (9.6dBm)	17.2 (12.3dBm)	21.0 (13.2dBm)	36.3 (15.6dBm)

*. The measured average power of EUT was shown in Section 6: Confirmation before SAR testing.

Since the maximum power (including tune-up tolerance) of EUT was 14.5dBm, SAR test may exclude with the test separation distance of 19mm or more.

By the determined test setup shown above, the SAR test was applied in the following procedures.

Step 1	Change the setup positions.
Step 2	Change the operation mode. (at the worst position.)
Step 3	Change the liquid. (at the worst SAR condition of body liquid.)

*. During SAR test, the radiated power is always monitored by Spectrum Analyzer.

SECTION 4: Operation of EUT during testing

4.1 Operating modes for SAR testing

This EUT has IEEE.802.11b, 11g, 11n(20HT) and 11n(40HT) continuous transmitting modes.

The frequency and the modulation used in the SAR testing are shown as a following.

Operation mode	11b(*1)	11g	11n(20HT)	11n(40HT)(*1)
Tx frequency band	2412-2462MHz			2422-2452MHz
Tested frequency	2462MHz(*1)	-(*2)	-(*2)	2437MHz(*1)
Modulation	DBPSK/DSSS	-(*2)	-(*2)	BPSK/OFDM
Data rate	1Mbps(*3)	-(*2)	-(*2)	MCS0(*3)
Crest factor	1.0 (100% duty cycle)	-(*2)	-(*2)	1.0 (100% duty cycle)
Controlled software	Software title: 172R8190 (Version 2.2), During SAR test, the output condition of the transmitter of the EUT was controlled by 172R8190 software installed in the platform via LCD touch screen. (*. During antenna terminal power measurement, the EUT was operated by pre-installed "RF TEST" mode software via specified host device. The compatibility of output power of "RF TEST" mode and "172R8190" software was guaranteed by the customer.)			

*1. SAR test was only applied to a highest output channel of 11b and 11n(40HT), because the reported SAR (1g) value were less than 0.05W/kg and the peak SAR were less than 0.1W/kg. (KDB248227)

*2. Since the target average power of 11g and 11n(20HT) were less than 0.25dB higher than the corresponded 11b power, SAR test was not applied to the 11g and 11n(20HT) mode. (KDB248227)

*3. Since the average powers of higher data rate were less than 0.25dB higher than the lowest data rate, SAR test was only applied to the lowest data rate. (KDB248227)

SECTION 5: Uncertainty Assessment (SAR measurement)

Uncertainty of SAR measurement(v06) (*: Body tissue, ε & σ tolerance: ≤±5%, Tx: ≈100% duty cycle)	Under 3 GHz	
	1g SAR	10g SAR
Combined measurement uncertainty of the measurement system (k=1)	± 12.5%	± 12.2%
Expanded uncertainty (k=2)	± 25.0%	± 24.4%

	Error Description (Under 3GHz) (v06)	Uncertainty Value	Probability distribution	Divisor	ci (1g)	ci (10g)	ui (1g) (std. uncertainty)	ui (10g) (std. uncertainty)	Vi, veff
A	Measurement System (DASY5)								
1	Probe Calibration Error	±6.0%	Normal	1	1	1	±6.0%	±6.0%	∞
2	Axial isotropy Error	±4.7%	Rectangular	√3	0.7	0.7	±1.9%	±1.9%	∞
3	Hemispherical isotropy Error (<5deg, flat phantom)	±9.6%	Rectangular	√3	0.7	0.7	±3.9%	±3.9%	∞
4	Boundary effects Error	±1.4%	Rectangular	√3	1	1	±0.8%	±0.8%	∞
5	Linearity Error	±4.7%	Rectangular	√3	1	1	±2.7%	±2.7%	∞
6	Probe modulation response (CW)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
7	Sensitivity Error (detection limit)	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
8	Response Time Error (<5ms/100ms wait)	±0.0%	Normal	1	1	1	±0.0%	±0.0%	∞
9	Integration Time Error (100% duty cycle)	±0.0%	Rectangular	√3	1	1	±0.0%	±0.0%	∞
10	Readout Electronics Error(DAE)	±0.3%	Rectangular	√3	1	1	±0.3%	±0.3%	∞
11	RF ambient conditions-noise	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
12	RF ambient conditions-reflections	±3.0%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
13	Probe positioner mechanical tolerance	±1.1%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
14	Probe Positioning with respect to phantom shell	±2.9%	Rectangular	√3	1	1	±1.7%	±1.7%	∞
15	Errors: Extrapol., Interpol. & Integration Algorithms	±1.0%	Rectangular	√3	1	1	±0.6%	±0.6%	∞
B	Test Sample Related								
16	Test Sample Positioning Error	±5.0%	Normal	1	1	1	±5.0%	±5.0%	145
17	Device Holder or Positioner Tolerance	±3.6%	Normal	1	1	1	±3.6%	±3.6%	5
18	Test Sample Output Power Drift Error	±5.0%	Rectangular	√3	1	1	±2.9%	±2.9%	∞
C	Phantom and Setup								
19	Phantom uncertainty (shape, thickness tolerances)	±7.5%	Rectangular	√3	1	1	±4.3%	±4.3%	∞
20	Target Liquid Conductivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.64	0.43	±1.8%	±1.2%	∞
21	Measurement Liquid Conductivity Error	±2.9%	Normal	1	0.64	0.43	±1.9%	±1.2%	3
22	Target Liquid Permittivity Tolerance (≤5%)	±5.0%	Rectangular	√3	0.6	0.49	±1.7%	±1.4%	∞
23	Measurement Liquid Permittivity Error	±2.9%	Normal	1	0.6	0.49	±1.7%	±1.4%	3
24	Liquid Conductivity-temp.uncertainty (≤2deg.C.)	±5.2%	Rectangular	√3	0.78	0.71	±2.3%	±2.1%	∞
25	Liquid Permittivity-temp.uncertainty (≤2deg.C.)	±0.8%	Rectangular	√3	0.23	0.26	±0.1%	±0.1%	∞
	Combined Standard Uncertainty						±12.5%	±12.2%	479
	Expanded Uncertainty (k=2)						±25.0%	±24.4%	

*. Table of uncertainties are listed for ISO/IEC 17025

*. This measurement uncertainty budget is suggested by IEEE 1528, IEC 62209-2 and determined by Schmid & Partner Engineering AG (DASY5 Uncertainty Budget). Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r01 Section 2.8.1., when the highest measured SAR(1g) within a frequency band is < 1.5W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2003 is not required in SAR reports submitted for equipment approval.

SECTION 6: Confirmation before testing

6.1 Assessment for the conducted power of EUT

6.1.1 SAR test reference power (Worst data rate & worst channel determination)

Mode	Freq. [MHz]	D/R [Mbps]	Cable Loss [dB]	Att. [dB]	D/F [dB]	Average power			PAR [dB]	Power tolerance & correction				SAR Tested/Reduced	Remarks
						P/M Reading [dBm]	Result			Target & tolerance [dBm]	Deviation from max. [dB]	Scaled Factor [-]	≤2 dB from max.?		
							[dBm]	[mW]							
11b	2437	1	0.67	10.02	0.00	2.20	12.89	19.5	2.62	12.0±2.5	-1.61	×1.45	Yes	Reduced(*2)	
	2437	2	0.67	10.02	0.00	2.24	12.93	19.6	2.56	12.0±2.5	-1.57	×1.44	Yes	(*1)	Highest in D/R(11b)
	2437	5.5	0.67	10.02	0.00	2.22	12.91	19.5	1.96	12.0±2.5	-1.59	×1.44	Yes	-	
	2437	11	0.67	10.02	0.00	2.20	12.89	19.5	2.61	12.0±2.5	-1.61	×1.45	Yes	-	
	2412	1	0.67	10.02	0.00	2.47	13.16	20.7	2.60	12.0±2.5	-1.34	×1.36	Yes	Reduced(*2)	
	2462	1	0.67	10.02	0.00	2.52	13.21	20.9	2.61	12.0±2.5	-1.29	×1.35	Yes	Tested	Highest in channel(11b)
11g	2437	6	0.67	10.02	0.00	1.91	12.60	18.2	9.26	12.0±2.5	-1.90	×1.55	Yes	Reduced(*2)	Highest in D/R(11g)
	2437	9	0.67	10.02	0.00	1.87	12.56	18.0	8.76	12.0±2.5	-1.94	×1.56	Yes	-	
	2437	12	0.67	10.02	0.00	1.87	12.56	18.0	9.12	12.0±2.5	-1.94	×1.56	Yes	-	
	2437	18	0.67	10.02	0.00	1.89	12.58	18.1	8.55	12.0±2.5	-1.92	×1.56	Yes	-	
	2437	24	0.67	10.02	0.00	1.86	12.55	18.0	9.08	12.0±2.5	-1.95	×1.57	Yes	-	
	2437	36	0.67	10.02	0.00	1.82	12.51	17.8	8.84	12.0±2.5	-1.99	×1.58	Yes	-	
	2437	48	0.67	10.02	0.00	1.82	12.51	17.8	9.00	12.0±2.5	-1.99	×1.58	Yes	-	
	2437	56	0.67	10.02	0.00	1.73	12.42	17.5	9.17	12.0±2.5	-2.08	×1.61	Yes	-	
	2412	6	0.67	10.02	0.00	2.16	12.85	19.3	9.23	12.0±2.5	-1.65	×1.46	Yes	Reduced(*2)	
	2462	6	0.67	10.02	0.00	2.31	13.00	20.0	9.02	12.0±2.5	-1.50	×1.41	Yes	Reduced(*2)	Highest in channel(11g)
11n (20HT)	2437	MCS0	0.67	10.02	0.00	1.93	12.62	18.3	8.59	12.0±2.5	-1.88	×1.54	Yes	Reduced(*2)	Highest in D/R(n20)
	2437	MCS1	0.67	10.02	0.00	1.88	12.57	18.1	8.58	12.0±2.5	-1.93	×1.56	Yes	-	
	2437	MCS2	0.67	10.02	0.00	1.89	12.58	18.1	8.64	12.0±2.5	-1.92	×1.56	Yes	-	
	2437	MCS3	0.67	10.02	0.00	1.89	12.58	18.1	8.61	12.0±2.5	-1.92	×1.56	Yes	-	
	2437	MCS4	0.67	10.02	0.00	1.92	12.61	18.2	8.59	12.0±2.5	-1.89	×1.55	Yes	-	
	2437	MCS5	0.67	10.02	0.00	1.90	12.59	18.2	8.42	12.0±2.5	-1.91	×1.55	Yes	-	
	2437	MCS6	0.67	10.02	0.00	1.88	12.57	18.1	8.56	12.0±2.5	-1.93	×1.56	Yes	-	
	2437	MCS7	0.67	10.02	0.00	1.89	12.58	18.1	8.59	12.0±2.5	-1.92	×1.56	Yes	-	
	2412	MCS0	0.67	10.02	0.00	2.19	12.88	19.4	8.54	12.0±2.5	-1.62	×1.45	Yes	Reduced(*2)	
	2462	MCS0	0.67	10.02	0.00	2.35	13.04	20.1	8.35	12.0±2.5	-1.46	×1.40	Yes	Reduced(*2)	Highest in channel(n20)
11n (40HT)	2437	MCS0	0.67	10.02	0.00	2.52	13.21	20.9	8.54	12.0±2.5	-1.29	×1.35	Yes	Tested	Highest in channel(n40) Highest in D/R(n40)
	2437	MCS1	0.67	10.02	0.00	2.50	13.19	20.8	8.43	12.0±2.5	-1.31	×1.35	Yes	-	
	2437	MCS2	0.67	10.02	0.00	2.49	13.18	20.8	8.70	12.0±2.5	-1.32	×1.36	Yes	-	
	2437	MCS3	0.67	10.02	0.00	2.46	13.15	20.7	8.95	12.0±2.5	-1.35	×1.36	Yes	-	
	2437	MCS4	0.67	10.02	0.00	2.48	13.17	20.7	8.86	12.0±2.5	-1.33	×1.36	Yes	-	
	2437	MCS5	0.67	10.02	0.00	2.46	13.15	20.7	9.06	12.0±2.5	-1.35	×1.36	Yes	-	
	2437	MCS6	0.67	10.02	0.00	2.49	13.18	20.8	8.71	12.0±2.5	-1.32	×1.36	Yes	-	
	2437	MCS7	0.67	10.02	0.00	2.47	13.16	20.7	8.32	12.0±2.5	-1.34	×1.36	Yes	-	
	2422	MCS0	0.67	10.02	0.00	2.32	13.01	20.0	8.48	12.0±2.5	-1.49	×1.41	Yes	Reduced(*2)	
	2452	MCS0	0.67	10.02	0.00	2.07	12.76	18.9	8.66	12.0±2.5	-1.74	×1.49	Yes	Reduced(*2)	

*. Freq.: Frequency, D/R: Data Rate, Att.: Attenuator loss, D/F: Duty Factor (0dB=100% duty cycle), n/a: not applied, P/M: Power Meter, PAR: Peak average ratio.
*. Calculating formula:
Results (Ave, dBm) = (P/M Reading, dBm) + (Cable loss, dBm) + (Attenuator, dBm) + (duty factor, dBm), where (duty factor, dBm) = 10 × log (100 / (duty cycle, %))
Deviation from max.: (Power deviation, dB) = (results power (average, dBm)) - (Max.-specification output power (average, dBm))
Scaled Factor: Power scaled factor for obtained SAR value, Scaled Factor [-] = 1 / (10^{^(Deviation from max. / 10))}
*. Uncertainty of antenna port conducted test; Power measurement uncertainty above 1GHz for this test was: (±) 1.5dB
*. SAR reference; Date measured: September 17, 2013 / measured by: Hiroshi Naka / 24deg.C. & 51%RH
*.1. The average power of higher data rate was less than 0.25dB higher than the lowest data rate. Therefore, SAR test was only applied to the lowest data rate. (KDB248227)
*.2. Since the extrapolated maximum peak SAR for the maximum output channel was ≤1.6W/kg and the 1g averaged SAR was ≤0.8W/kg, the testing for other channels were omitted. (KDB248227)
*. The target average power of 11g and 11n(20HT) were more than 1dB lower than the corresponded 11b power. The target average power of 11n(40HT) was more than 2dB lower than the corresponded 11b power. Therefore power measurement and SAR test were only applied to 11b mode. (KDB248227)
*. Software: RFTEST. Power setting: 12 (all modes)

SECTION 7: SAR results

7.1 SAR measurement results / Platform (2)

Measurement date: September 25 and 26, 2013

Measurement by: Hiroshi Naka

Liquid measurement

Target Frequency [MHz]	Liquid type	Liquid parameters						Temp. [deg.C.]	Depth [mm]	ASAR Coefficients (*1)		Remarks / Environment
		Permittivity (ϵ_r) [-]			Conductivity [S/m]					ASAR (1g) [%]	Correction required?	
		Target	Measured ($\Delta\epsilon_r$)	%	Target	Measured ($\Delta\sigma$)	%					
2437	Body	52.72	50.78	-3.7%	1.938	1.964	+1.4%	22.5	153	(+1.48)	not required.	September 25, 2013, before SAR test /ambient; 22.9 deg.C., 60%RH
2462		52.68	50.57	-4.0%	1.967	2.002	+1.8%			(+1.75)	not required.	
2462	Head	39.18	37.84	-3.4%	1813	1.891	+4.3%	22.9	156	+2.26	not required.	September 26, 2013, before SAR test /ambient; 24.1 deg.C., 58%RH

*. The target value is a parameter defined in Appendix A of KDB865664 D01 (v01r01), the dielectric parameters suggested for head and body tissue simulating liquid are given at 2000, 2450 and 3000MHz. As an intermediate solution, dielectric parameters for the frequencies between 2000 to 3000 MHz were obtained using linear interpolation. (Refer to Appendix 3-4)

SAR measurement results (Partial-Body)

SAR measurement results (Body touch)																				
Mode	[MHz] (CH)	Modulation /Data rate / Crest factor	Platform setup conditions				Liquid temp. [deg.C.]		Power drift [dB]	SAR (1g) [W/kg]			Data# in Appendix 2-2	Reported SAR		Remarks				
			Position	LCD open /close	Gap [mm]	Power input	Before	After		Observed	ASAR [%]	Δ ASAR corrected		SAR (1g) [W/kg]	Scaled factor		tune-up SAR			
																		maximum value of multi-peak		
Step 1: Changing setup positions (Body simulated tissue)																				
11b (*2)	2462 (11) (*3)	DBPSK &DSSS /1Mbps/1.0	Bottom-left	close	0	Adaptor (with battery #25)	22.3	22.4	0.04	0.205	(+1.75)	n/a (*1)	Step 1-1	×1.35	0.28	-				
							Bottom	0	Adaptor (with battery #25)	22.6	22.6	0.11	0.196	(+1.75)	n/a (*1)	Step 1-2	×1.35	0.27	-	
							Left	0	Adaptor (with battery #25)	22.6	22.7	-0.02	0.123	(+1.75)	n/a (*1)	Step 1-3	×1.35	0.17	-	
							Top (LCD)	0	Adaptor (with battery #25)	22.7	22.7	0.20	0.159	(+1.75)	n/a (*1)	Step 1-4	×1.35	0.22	-	
							Right	0	Battery #25 alone	22.7	22.7	0.20	0.121	(+1.75)	n/a (*1)	Step 1-5	×1.35	0.16	-	
							Bottom-rear	0	Adaptor (with battery #25)	22.5	22.6	-	(0.042)	*	Fast SAR(1g)	-	*	Since fast-SAR(1g) (*Polynomial fit) of the area scan was small enough, zoom-scan did not carry out.		
							Rear	0	Adaptor (with battery #25)	22.7	22.7	-	(0.036)	*	Fast SAR(1g)	-	*	Since fast-SAR(1g) (*Polynomial fit) of the area scan was small enough, zoom-scan did not carry out.		
							Front (Lens)	0	Adaptor (with battery #25)	22.7	22.7	-	(0.036)	*	Fast SAR(1g)	-	*	Since fast-SAR(1g) (*Polynomial fit) of the area scan was small enough, zoom-scan did not carry out.		
							Bottom-left	open	0	Adaptor (with battery #24)	22.7	22.7	-0.04	0.219	(+1.75)	n/a (*1)	Step 1-6	×1.35	0.30 (0.296)	-
							Bottom-left	open	0	Battery #24 alone	22.7	22.7	-0.07	0.224	(+1.75)	n/a (*1)	Step 1-7	×1.35	0.30 (0.302)	>Highest SAR (in body liquid).
Step 2: Changing the operation mode (Body simulated tissue)																				
11n (40HT)	2437 (6) (*3)	BPSK &OFDM /MCS0/1.0	Bottom-left	open	0	Battery #26 alone	22.8	22.8	0.04	0.210	(+1.48)	n/a (*1)	Step 2-1	×1.35	0.28	-				
SAR measurement results (Head (front-of-face))																				
Step 3: Change liquid and repeat worst SAR condition of body liquid. (Head simulated tissue)																				
11b	2462 (11)	DBPSK &DSSS /1Mbps/1.0	Bottom-left	open	0	Battery #24 alone	23.1	23.2	-0.11	0.261	+2.26	n/a (*1)	Step 3-1	×1.35	0.35	>Highest SAR (in head liquid).				

*. Gap: It is the separation distance between the nearest position of platform outer surface and the bottom outer surface of phantom. ; n/a: Not applied

*. Power input; since it was early until the battery runs down, the power supply adapter was mainly connected during SAR test.

*. During test, the platform (2) was operated without all signal interface cables.

*. Calibration frequency of the SAR measurement probe and used conversion factors (EX3DV4);

SAR test frequency	Probe calibration frequency	Validity [MHz]	Used conversion factor		Uncertainty
			Body tissue	Head tissue	
2437 MHz	2450 MHz	-13MHz, within ±50 of calibration frequency	6.82	6.81	±12.0%
2462 MHz	2450 MHz	+12MHz, within ±50 of calibration frequency	6.82	6.81	±12.0%

*. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Notes:

- The number of Δ SAR(1g) of body simulated tissue was reference purpose only. Δ SAR correction was only applied to head simulated tissue. The coefficients are parameters defined in Annex F, IEC 62209-2:2010. Since the measured liquid parameters were \leq the target ϵ_r and \geq the target σ values and also within 5% of the required target dielectric parameters, the measured SAR was not compensated by Δ SAR coefficients (Clause 2) of 2.6, KDB865664 D01 (v01r01). In addition, in accordance with clause 6.1.1 of IEC62209-2; "If the correction Δ SAR has a negative sign, the measured SAR results shall not be corrected", the calculated Δ SAR values of the tested liquid had shown negative correction. Therefore the measured SAR was not required Δ SAR correction.
 Δ SAR(1g) = $C_{\epsilon r} \times \Delta\epsilon_r + C_{\sigma} \times \Delta\sigma$, $C_{\epsilon r} = -7.854E-4 \times f^3 + 9.402E-3 \times f^2 - 2.742E-2 \times f + 0.2026$ / $C_{\sigma} = 9.804E-3 \times f^3 - 8.661E-2 \times f^2 + 2.981E-2 \times f + 0.7829$
- The target average power of 11g and 11n(20HT) were more than 1dB lower than the corresponded 11b power. Therefore SAR test was only applied to 11b mode. (KDB248227)
- Since the extrapolated maximum peak SAR for the maximum output channel was ≤ 1.6 W/kg and the 1g averaged SAR was ≤ 0.8 W/kg, the testing for other channels were omitted. (KDB248227)
- Software: 172R8190 (Version 2.2). Power setting: 12 (11b, 11n(40HT))