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#### A.3 SAR Measurement Data

### A.3.1 WCDMA 850 MHz (Band-V) Band

### A.3.1.1 Left Head - open style



Cheek/Touch Position

Ear/Tilt Position

Date: August 4, 2009 WCDMA Band-V (Duty Cycle: 100 %, Crest Factor: 1) Tissue Power Frequency Tx Power Limit SAR (1g) **Test Position** Drift Temp. [dBm] [mW/g][mW/g] Channel MHz [dB] [°C] \*\* 4132 826.40 --Cheek/Touch 4182 836.40 22.83 -0.038 1.6 0.196 22.0 4233 846.60 --\*\* 4132 826.40 ----Ear/Tilt 4182 836.40 22.83 -0.025 1.6 0.077 22.0 4233 846.60 \*\*

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 5. Please refer to attachment for the result presentation in plot format.



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### A.3.1.2 Right Head - open style



**Cheek/Touch Position** 

Ear/Tilt Position

WCDMA D 1 W	(D + C 1	100.0/	1)		Ъ		4 0000
WCDMA Band-V	(Duty Cycle:	Da	te : August	4, 2009			
Test Position	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40				**	
Cheek/Touch	4182	836.40	22.83	-0.003	1.6	0.169	22.0
	4233	846.60				**	
	4132	826.40				**	
Ear/Tilt	4182	836.40	22.83	-0.009	1.6	0.065	22.0

#### NOTES:

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.

846.60

3. SAR is measured using a 12.2 kbps RMC.

4233

- 4. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 5. Please refer to attachment for the result presentation in plot format.



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## A.3.1.3 Left Head - swivel style



Cheek/Touch Position

Ear/Tilt Position

WCDMA Band-V	(Duty Cycle:	Date: August 4, 2009					
	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
Test Position	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40				**	
Cheek/Touch	4182	836.40	22.83	-0.060	1.6	0.322	22.0
	4233	846.60				**	
	4132	826.40				**	
Ear/Tilt	4182	836.40	22.83	-0.004	1.6	0.182	22.0

#### NOTES:

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.

846.60

3. SAR is measured using a 12.2 kbps RMC.

4233

- The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- Please refer to attachment for the result presentation in plot format.



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## A.3.1.4 Right Head - swivel style





Cheek/Touch Position

Ear/Tilt Position

WCDMA Band-V	(Duty Cycle:	100 %, Crest F		Da	te : August	4, 2009	
	Freq	uency	Tx Power	Power	Limit	SAR (1g)	Tissue
Test Position	Channel	MHz	[dBm]	Drift [dR]	[mW/g]	[mW/g]	Temp.

Test Position	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40	23.44	-0.027		0.441	22.0
Cheek/Touch	4182	836.40	22.83	-0.088	1.6	0.356	22.0
	4233	846.60	23.09	-0.041		0.289	22.0
	4132	826.40				**	
Ear/Tilt	4182	836.40	22.83	-0.011	1.6	0.191	22.0
	4233	846.60				**	

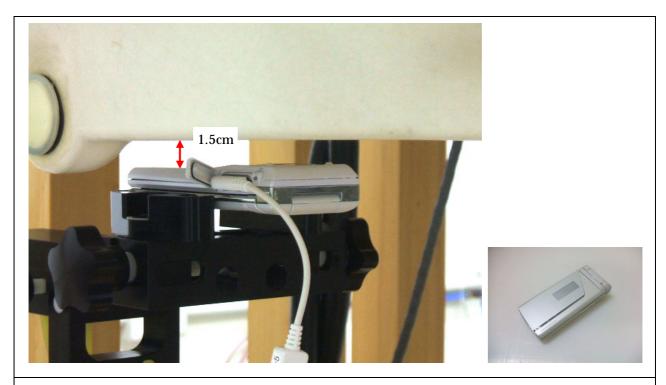
- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 5. Please refer to attachment for the result presentation in plot format.



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### A.3.1.5 Body-worn Back Position - close style



WCDMA Band-V (Duty Cycle: 100 %, Crest Factor: 1) Date: August 5, 2009

	`	•				0	·
Separation	Freq	uency	Tx Power	Power	Limit	SAR (1g)	Tissue
Distance	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40				**	
1.5 cm	4182	836.40	22.83	-0.022	1.6	0.379	22.0
	4233	846.60				**	

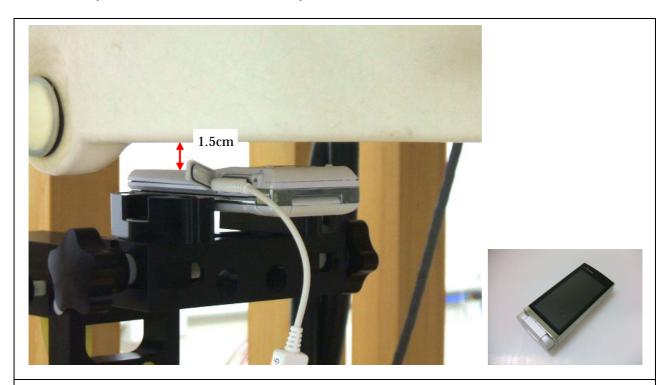
- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 6. Please refer to attachment for the result presentation in plot format.



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## A.3.1.6 Body-worn Back Position - viewer style



WCDMA Band-V (Duty Cycle: 100 %, Crest Factor: 1) Date: August 5, 2009

	` 5 5	•				0	·
Separation	Freq	uency	- Tx Power	Power	Limit	SAR (1g)	Tissue
Distance	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40	23.44	0.031		0.521	22.0
1.5 cm	4182	836.40	22.83	0.065	1.6	0.402	22.0
	4233	846.60	23.09	-0.040		0.337	22.0

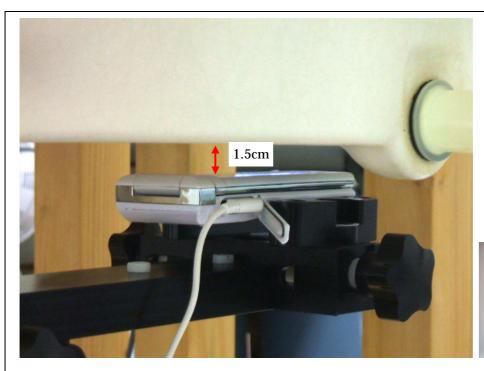
- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 6. Please refer to attachment for the result presentation in plot format.



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### A.3.1.7 Body-worn Front Position - close style





WCDMA Band-V (Duty Cycle: 100 %, Crest Factor: 1)  Date:	: August 5.	. 2009
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Weblin Bana V	(Eury Cycle)	100 70, 010501	400011 1)			te . IIagast	0, 2000
Separation Distance	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40				**	
1.5 cm	4182	836.40	22.83	-0.005	1.6	0.143	22.0
	4233	846.60				**	

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 6. Please refer to attachment for the result presentation in plot format.



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## A.3.1.8 Body-worn Front Position - viewer style





WCDMA Band-V (Duty Cycle: 100 %, Crest Factor: 1)

Date: August 5, 2009

Wobinin Bana V	(Eury Cycle)	100 70, 010001	zace i magase e, weee				
Separation	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
Distance	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	4132	826.40				**	
1.5 cm	4182	836.40	22.83	-0.051	1.6	0.186	22.0
	4233	846.60				**	

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. SAR is measured using a 12.2 kbps RMC.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 6. Please refer to attachment for the result presentation in plot format.



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#### A.3.2 PCS 1900 MHz Band

### A.3.2.1 Left Head – open style





**Cheek/Touch Position** 

Ear/Tilt Position

GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3) Date: July 30, 2009

Test Position	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	0512	1850.20	29.65	-0.079		0.395	22.0
Cheek/Touch	0661	1880.00	29.48	-0.040	1.6	0.403	22.0
	0810	1909.80	20.62	-0.009		0.462	22.0
	0512	1850.20				**	
Ear/Tilt	0661	1880.00	29.48	-0.051	1.6	0.241	22.0
	0810	1909.80				**	

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. Please refer to attachment for the result presentation in plot format.



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# A.3.2.2 Right Head - open style





Cheek/Touch Position

Ear/Tilt Position

GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3) Date : July 30, 2009

. 3	3					<u> </u>	
Test Position	Freq Channel	uency MHz	Tx Power [dBm]	Power Drift [dB]	Limit [mW/g]	SAR (1g) [mW/g]	Tissue Temp. [°C]
	0512	1850.20				**	
Cheek/Touch	0661	1880.00	29.48	-0.051	1.6	0.321	22.0
	0810	1909.80				**	
	0512	1850.20				**	
Ear/Tilt	0661	1880.00	29.48	-0.074	1.6	0.222	22.0
	0810	1909.80				**	

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. Please refer to attachment for the result presentation in plot format.



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## A.3.2.3 Left Head - swivel style



Cheek/Touch Position

Ear/Tilt Position

GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3) Date : July 30, 2009

Test Position	Freq Channel	uency MHz	Tx Power [dBm]	Power Drift [dB]	Limit [mW/g]	SAR (1g) [mW/g]	Tissue Temp. [°C]
	0512	1850.20				**	
Cheek/Touch	0661	1880.00	29.48	-0.071	1.6	0.232	22.0
	0810	1909.80				**	-
	0512	1850.20				**	
Ear/Tilt	0661	1880.00	29.48	-0.055	1.6	0.114	22.0
	0810	1909.80				**	

- 1. Depth of Liquid: 15.0 cm
- 2. Transmitter power was measured at the antenna-conducted terminal.
- 3. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. Please refer to attachment for the result presentation in plot format.



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# A.3.2.4 Right Head - swivel style





**Cheek/Touch Position** 

Ear/Tilt Position

GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3) Date : July 30, 2009

Test Position	Freq Channel	uency MHz	Tx Power [dBm]	Power Drift [dB]	Limit [mW/g]	SAR (1g) [mW/g]	Tissue Temp. [°C]	
Cheek/Touch	0512	1850.20					**	
	0661	1880.00	29.48	-0.033	1.6	0.281	22.0	
	0810	1909.80				**		
Ear/Tilt	0512	1850.20				**		
	0661	1880.00	29.48	-0.008	1.6	0.101	22.0	
	0810	1909.80				**		

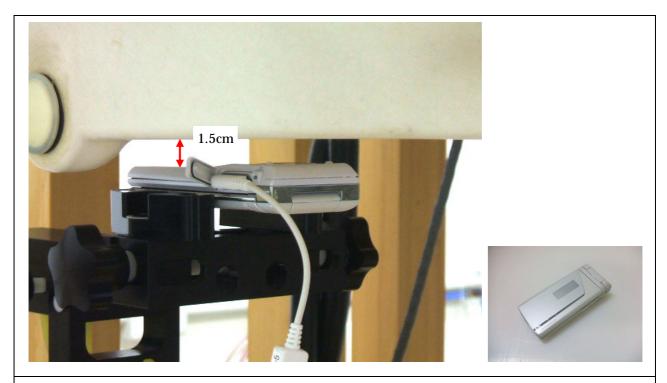
- 1. Depth of Liquid: 15.0 cm
- $2. \quad Transmitter \ power \ was \ measured \ at \ the \ antenna-conducted \ terminal.$
- 3. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. Please refer to attachment for the result presentation in plot format.



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### A.3.2.5 Body-worn Back Position - close style



GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3)	Date : July 31, 2009
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Separation Distance	Freq Channel	uency MHz	Tx Power   Power   Drift		Limit [mW/g]	SAR (1g) [mW/g]	Tissue Temp.	
Distance	Chainei	MITZ	[uDiii]	[dB]	[IIIVV/g]	[IIIVV/g]	[°C]	
1.5 cm	0512	1850.20			1.6	**		
	0661	1880.00	29.48	-0.019		0.270	22.0	
	0810	1909.80				**		
GSM 1900 GSM+	GSM 1900 GSM+GPRS (Duty Cycle: 12.0 %, Crest Factor: 8.3)							
	0512	1850.20				**		
1.5 cm	0661	1880.00	29.48	-0.001	1.6	0.259	22.0	
	0810	1909.80				**		

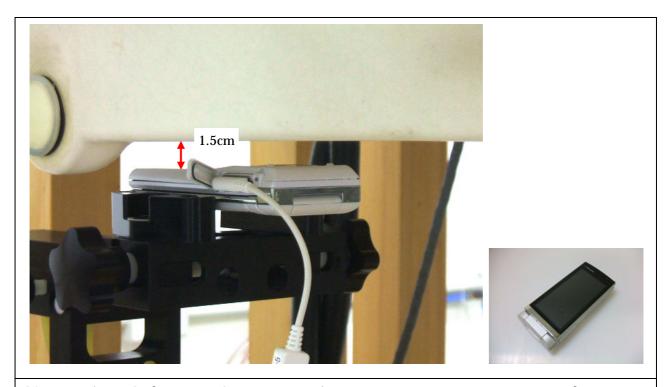
- 1. Depth of Liquid: 15.0 cm
- $2. \quad Transmitter \ power \ was \ measured \ at \ the \ antenna-conducted \ terminal.$
- 3. The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. Please refer to attachment for the result presentation in plot format.



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## A.3.2.6 Body-worn Back Position - viewer style



GSM 1900 (Duty	Cycle: 12.0 %,	Crest Factor:	8.3)	Γ	Date : July	31, 2009	

Separation Distance	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue
	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]
	0512	1850.20	29.65	-0.004		0.283	22.0
1.5 cm	0661	1880.00	29.48	-0.061	1.6	0.285	22.0
	0810	1909.80	29.62	-0.041		0.330	22.0
GSM 1900 GSM+GPRS (Duty Cycle: 12.0 %, Crest Factor: 8.3)							
	0512	1850.20				**	1
1.5 cm	0661	1880.00	29.48	-0.012	1.6	0.271	22.0
	0810	1909.80				**	

- 1. Depth of Liquid: 15.0 cm
- $2. \quad Transmitter \ power \ was \ measured \ at \ the \ antenna-conducted \ terminal.$
- 3. The SAR result marked at  $^{**}$  is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- ${\bf 4.} \quad \text{The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.}$
- 5. Please refer to attachment for the result presentation in plot format.

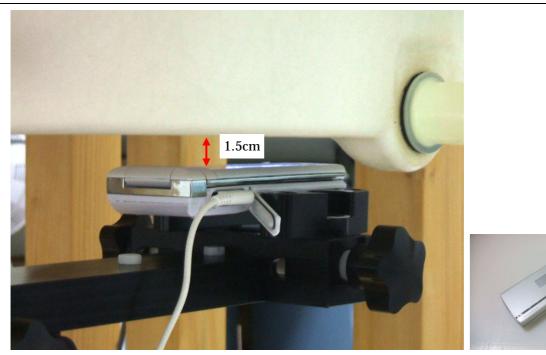


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### A.3.2.7 Body-worn Front Position - close style





GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3)				Date : July 31, 2009			
				-			

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Separation	•	uency	Tx Power [dBm]	Power Drift	Limit	SAR (1g) [mW/g]	Tissue Temp.	
Distance	Channel	MHz		[dB]	[mW/g]		[°C]	
1.5 cm	0512	1850.20			1.6	**		
	0661	1880.00	29.48	-0.006		0.155	22.0	
	0810	1909.80				**		
GSM 1900 GSM+	GSM 1900 GSM+GPRS (Duty Cycle: 12.0 %, Crest Factor: 8.3)							
	0512	1850.20				**	-	
1.5 cm	0661	1880.00	29.48	-0.010	1.6	0.144	22.0	
	0810	1909.80				**		

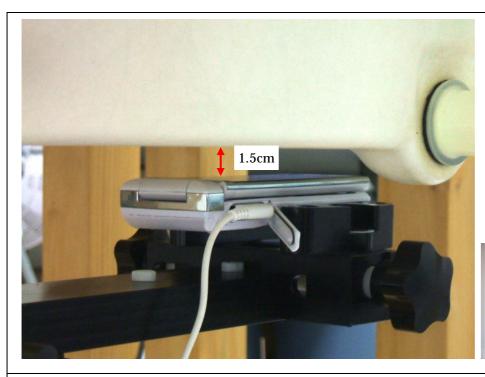
- 1. Depth of Liquid: 15.0 cm
- Transmitter power was measured at the antenna-conducted terminal.
- The SAR result marked at \*\* is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- Please refer to attachment for the result presentation in plot format.



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### A.3.2.8 Body-worn Front Position - viewer style





GSM 1900 (Duty	GSM 1900 (Duty Cycle: 12.0 %, Crest Factor: 8.3)  Date: July 31, 2009								
Separation Distance	Frequency		Tx Power	Power	Limit	SAR (1g)	Tissue		
	Channel	MHz	[dBm]	Drift [dB]	[mW/g]	[mW/g]	Temp. [°C]		
1.5 cm	0512	1850.20			1.6	**			
	0661	1880.00	29.48	-0.039		0.120	22.0		
	0810	1909.80				**			
GSM 1900 GSM+	-GPRS (Duty	Cycle: 12.0 %, (	Crest Factor: 8	3.3)					
	0512	1850.20				**			
1.5 cm	0661	1880.00	29.48	-0.017	1.6	0.112	22.0		
	0810	1909.80				**			

- 1. Depth of Liquid: 15.0 cm
- $2. \quad Transmitter \ power \ was \ measured \ at \ the \ antenna-conducted \ terminal.$
- 3. The SAR result marked at  $^{**}$  is optional, because the SAR measured at the middle channel for that configuration is at least 3.0 dB lower than the SAR limit.
- 4. The earphone wire connected to the EUT to simulate hand-free operation in a body-worn configuration.
- 5. Please refer to attachment for the result presentation in plot format.