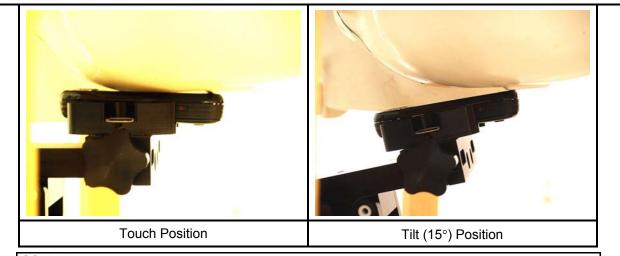
9 CELL BAND SAR MEASURMENT RESULTS

Test results are for model KAIS120 with battery manufactured by Samsung unless it is mentioned.

9.1 NORMAL POSITION

9.1.1 LEFT HAND SIDE



GSM850					
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	128	824.2			
Touch	190	836.6	0.186	-0.004	0.186
	251	848.8			
	128	824.2			
Tilt (15°)	190	836.6	0.191	0.000	0.191
	251	848.8			
WCDMA					
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	4132	826.4			
Touch	4182	836.4	0.179	-0.059	0.181
	4233	846.6			
	4132	826.4			
Tilt (15°)	4182	836.4	0.184	0.000	0.184
	4233	846.6			

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
 4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

9.1.2 **RIGHT HAND SIDE**

		P	•			P
	Touch Position	on			Tilt (15°) I	Position
GSM850			<u> </u>			
Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	128 190 251	824.2 836.6 848.8).243	0.000	0.243
Tilt (15°)	128 190 251	824.2 836.6 848.8	().211	-0.042	0.213
WCDMA						
Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	4132 4182 4233	826.4 836.4 846.6).217	0.007	0.217
Tilt (15°)	4132 4182 4233	826.4 836.4 846.6	().198	-0.059	0.201

The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement 1) process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

SIDE OPEN POSITION 9.2

9.2.1 LEFT HAND SIDE

	Touch Positi	on			Tilt (15°) F	Position
GSM850						
Test Position	Channel	f (MHz)		ured SAR mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAF 1g (mW/g)
Touch	128 190	824.2 836.6	0	.213	0.000	0.213
	251	848.8				
	128	824.2				
Tilt (15°)	190 251	836.6 848.8	0	.295	-0.040	0.298
Tilt (15°)	190	836.6	0	.562	-0.083	0.573
GPRS 2	190 ⁵⁾	836.6	0	.515	-0.157	0.534
slots	190 ⁶⁾	836.6	0	.556	-0.067	0.565
	190 ⁷⁾	836.6	0	.591	-0.116	0.607
WCDMA	•	•				
Test Position	Channel	f (MHz)		ured SAR mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAF 1g (mW/g)
	4132	826.4				
Touch	4182	836.4	0	.191	0.000	0.191
	4233	846.6				
	4132	826.4	1			
Tilt (15°)	4182	836.4	0	.261	-0.016	0.262
	4233	846.6				
	nethod of extrapola the DASY4 system					at the end of the measuren

measurement process.

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional.

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT. 3)

The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements. 4)

5) Model KAIS 110.

Model KAIS 100. 6)

7) 8) Model KAIS 120 with DynaPack Battery.

EGPRS mode is skipped since power levels are significantly lower.

9.2.2 **RIGHT HAND SIDE**

	Touch Positi					
	TOUCH FOSIL	UII			Tilt (15°) F	rosition
GSM850 Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	128 190 251	824.2 836.6 848.8).143	-0.077	0.146
Tilt (15°)	128 190 251	824.2 836.6 848.8	C	0.161	0.000	0.161
WCDMA		0.010				
Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	4132 4182 4233	826.4 836.4 846.6	C).121	0.000	0.121
Tilt (15°)	4132 4182 4233	826.4 836.4 846.6	C	0.140	0.000	0.140

The exact method of extrapolation is Measured SAR x 10⁽-drift/10). The SAR reported at the end of the measurement 1) process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

9.3 BODY POSITION WITH HOLSTER



LCD Up

LCD Down

GPRS850 - 2 s	lots				
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	128	824.2			
LCD Up	190	836.6	0.689	0.000	0.689
	251	848.8			
	128	824.2	1.370	0.000	1.370
	190	836.6	1.460	0.000	1.460
	251	848.8	1.450	0.000	1.450
LCD Down	190 ⁵⁾	836.6	1.470	0.000	1.470
	190 ⁶⁾	836.6	1.450	0.000	1.450
	190 ⁷⁾	836.6	1.440	0.000	1.440
WCDMA					
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	4132	826.4			
LCD Down	4182	836.4	0.701	0.000	0.701
	4233	846.6			
WCDMA + HS	DPA				
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	4132	826.4			
LCD Down	4182	836.4	0.672	0.000	0.672
	4233	846.6			

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) Model KAIS 100.

6) Model KAIS 110.

7) Model KAIS 100 with Dynapack battery.

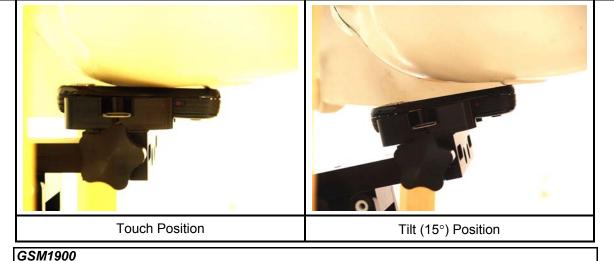
8) EGPRS mode is skipped since power levels are significantly lower.

10 PCS BAND SAR MEASURMENT RESULTS

Test results are for model KAIS120 with battery manufactured by Samsung unless it is mentioned.

10.1 NORMAL POSITION

10.1.1 LEFT HAND SIDE



Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	512	1850.2			
Touch	661	1880.0	0.282	0.000	0.282
	810	1909.8			
	512	1850.2			
Tilt (15°)	661	1880.0	0.391	0.000	0.391
	810	1909.8			
WCDMA					
Test Position	Channel	f (MHz)	Measured SAR	Power Drift	Extrapolated ¹⁾ SAR
	enamor	• ()	1g (mW/g)	(dB)	1g (mW/g)
	9262	1852.40	1g (mW/g)	(dB)	1g (mW/g)
Touch			1g (mW/g) 0.334	(dB) 0.000	1g (mW/g) 0.334
Touch	9262	1852.40			
Touch	9262 9400	1852.40 1880.00			
Touch Tilt (15°)	9262 9400 9538	1852.40 1880.00 1907.60			

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.
 4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

10.1.2 RIGHT HAND SIDE

10.1.2.1 GSM1900

		P	•			
	Touch Positi	on			Tilt (15°) F	Position
GSM1900						
Test Position	Channel	f (MHz)	Measure 1g (m		Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	512	1850.2				
Touch	661	1880.0	0.3	20	0.000	0.320
	810	1909.8				
	512	1850.2				
Tilt (15°)	661	1880.0	0.4	37	-0.054	0.442
Tilt (15°)	810	1909.8				
Tilt (15°)			0.43		-0.054 -0.064	0.442
Tilt (15°) Tilt (15°)	810	1909.8 1850.2 1880.0		97		
Tilt (15°)	810 512 661 810	1909.8 1850.2 1880.0 1909.8	0.7	97 66	-0.064	0.809
Tilt (15°) GPRS 2	810 512 661	1909.8 1850.2 1880.0	0.79 0.8	97 66 65	-0.064 -0.069	0.809 0.880
Tilt (15°)	810 512 661 810	1909.8 1850.2 1880.0 1909.8	0.79 0.80 0.70	97 66 65 50	-0.064 -0.069 -0.191	0.809 0.880 0.799

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) Model KAIS 110.

6) Model KAIS 100.

7) Model KAIS 120 with DynaPack Battery.

8) EGPRS mode is skipped since power levels are significantly lower.

10.1.2.2 WCDMA

|--|--|

Touch Position

Tilt (15°) Position

WCDMA

Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	9262	1852.40			
Touch	9400	1880.00	0.340	0.000	0.340
	9538	1907.60			
	9262	1852.40			
	9400	1880.00	0.516	0.000	0.516
	9538	1907.60			
Tilt (15°)	9400 ⁵⁾	1880.00	0.469	-0.018	0.471
	9400 ⁶⁾	1880.00	0.534	0.000	0.534
	9400 ⁷⁾	1880.00	0.484	0.000	0.484

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) Model KAIS 110.

6) Model KAIS 100.

7) Model KAIS 100 with DynaPack Battery.

10.2 SIDE OPEN POSITION

10.2.1 LEFT HAND SIDE

	Touch Positi	00		Tilt (15°) F	Position
				1 III (15°) F	osition
GSM1900					4)
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	512 661 810	1850.2 1880.0 1909.8	0.306	-0.193	0.320
Tilt (15°)	512 661 810	1850.2 1880.0 1909.8	0.389	-0.032	0.392
WCDMA					
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	9262 9400 9538	1852.40 1880.00 1907.60	0.358	0.000	0.358
Tilt (15°)	9262 9400	1852.40 1880.00	0.474	-0.198	0.496

 The exact method of extrapolation is Measured SAR x 10⁽⁻drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

10.2.2 RIGHT HAND SIDE

		F				
	Touch Positi	on			Tilt (15°) F	Position
GSM1900						
Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	512 661 810	1850.2 1880.0 1909.8).196	0.000	0.196
Tilt (15°)	512 661 810	1850.2 1880.0 1909.8	().322	0.000	0.322
WCDMA						
Test Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	9262 9400 9538	1852.40 1880.00 1907.60	().259	0.000	0.259
Tilt (15°)	9262 9400	1852.40 1880.00	().429	0.000	0.429

The exact method of extrapolation is Measured SAR x 10⁽-drift/10). The SAR reported at the end of the measurement 1) process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional.

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT. 3)

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

10.3 BODY POSITION WITH HOLSTER

				ł	
	LCD Up			LCD D	own
GPRS1900 - 2	slots				
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
LCD Up	512 661 810	1850.2 1880.0 1909.8	0.377	0.000	0.377
LCD Down	512 661 810 661 ⁵⁾ 661 ⁶⁾	1850.2 1880.0 1909.8 1880.0 1880.0	0.680 0.789 0.788 0.705 0.655	0.000 0.000 0.000 0.000 0.000	0.680 0.789 0.788 0.705 0.655
	661 ⁷⁾	1880.0	0.848	0.000	0.848
WCDMA Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
LCD Down	9262 9400 9538	1852.40 1880.00 1907.60	0.544	-0.175	0.566
WCDMA + HSL	DPA				
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
LCD Down	9262 9400 9538	1852.40 1880.00 1907.60	0.422	-0.194	0.441

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) Model KAIS 100.

6) Model KAIS 110.

7) Model KAIS 120 with DynaPack Battery.

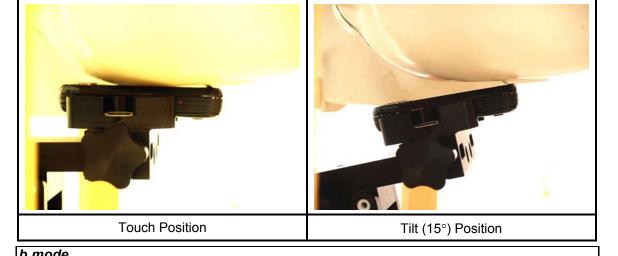
8) EGPRS mode is skipped since power levels are significantly lower.

11 2.4GHZ BAND SAR MEASURMENT RESULTS

Test results are for model KAIS120 with battery manufactured by Samsung unless it is mentioned.

11.1 NORMAL POSITION

11.1.1 LEFT HAND SIDE



Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	1	2412			
Touch	6	2437	0.042	-0.048	0.042
	11	2462			
	1	2412			
Tilt (15°)	6	2437	0.027	0.000	0.027
	11	2462			

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

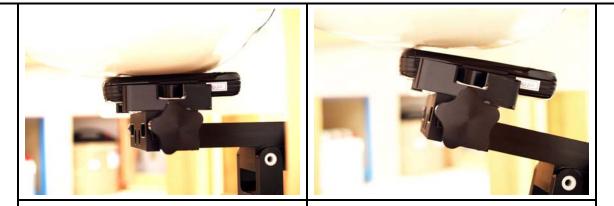
2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) 802.11g mode was skipped due to significantly lower output power.

11.1.2 RIGHT HAND SIDE



Touch Position

Tilt (15°) Position

b mode

Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
	1	2412			
	6	2437	0.061	-0.148	0.063
Touch	11	2462			
	6 ⁵⁾	2437	0.064	0.000	0.064
	6 ⁶⁾	2437	0.051	-0.165	0.053
	6 ⁷⁾	2437	0.047	-0.162	0.049
Tilt (15°)	1	2412			
	6	2437	0.017	-0.139	0.018
	11	2462			

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-drift/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) Model KAIS 100.

6) Model KAIS 110.

7) Model KAIS 100 with DynaPack Battery.

8) EGPRS mode is skipped since power levels are significantly lower.

9) G mode was skipped due to significantly lower output power.

11.2 SIDE OPEN POSITION

11.2.1 LEFT HAND SIDE

b mode	Touch Positi	on		Tilt (15°) Position		
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)		Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)
Touch	1 6 11	2412 2437 2462	0.044		-0.105	0.045
 process by the measurement The SAR measurement mW/g), thus 	he DASY4 system ht process. easured at the mid testing at low & hi	can be scaled dle channel for gh channel is o	up by the this confi ptional.	Power drift to	o determine the SA least 3 dB lower (0	at the end of the measurement R at the beginning of the .8 mW/g) than SAR limit (1.6 mum SAR location of the EUT

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT. 3)

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

5) 6) G mode was skipped due to significantly lower output power. Tilt position was skipped since SAR values are too low.

11.2.2 RIGHT HAND SIDE

			F					
	Touch Position				Tilt (15°) Position			
b m	ode]
Tes	t Position	Channel	f (MHz)		ured SAR (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)	
	Touch	1 6 11	2412 2437 2462	C).037	0.000	0.037	
Notes: 1) 2) 3) 4) 5)	process by t measuremen The SAR me mW/g), thus Please see a The battery	he DASY4 system nt process. easured at the mid testing at low & hi attachments for the	can be scaled of dle channel for gh channel is of e detailed meas n accordance w	up by the this confi ptional. urement /ith manu	Power drift to iguration is at data and plot ifacture's insti	o determine the SA least 3 dB lower (0	at the end of the measureme R at the beginning of the .8 mW/g) than SAR limit (1.6 mum SAR location of the EU ⁻ R measurements.	

6) Tilt position was skipped due to significantly lower output p.6) Tilt position was skipped since SAR values are too low.

11.3 BODY POSITION WITH HOLSTER

	LCD Up			LCD D	lown	
b mode						
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)	
LCD Up	1 6 11	2412 2437 2462	0.020	0.000	0.020	
	1 6 11	2412 2437 2462	0.090	-0.093	0.092	
LCD Down	6 ⁵⁾ 6 ⁶⁾ 6 ⁷⁾	2437 2437 2437	0.152 0.113 0.157	-0.070 -0.072 -0.060	0.154 0.115 0.159	
g mode	0	2407	0.157	-0.000	0.103	
Test Position	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated ¹⁾ SAR 1g (mW/g)	
LCD Down	1 6	2412 2437	0.065	0.000	0.065	

Notes:

 The exact method of extrapolation is Measured SAR x 10^(-driff/10). The SAR reported at the end of the measurement process by the DASY4 system can be scaled up by the Power drift to determine the SAR at the beginning of the measurement process.

2) The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 mW/g), thus testing at low & high channel is optional.

3) Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

4) The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

2462

5) Model KAIS 100.

6) Model KAIS 110.

7) Model KAIS 100 with DynaPack Battery.

11

15 PHOTOS

KAIS 100 or KAIS110 - Normal





KAIS 100 or KAIS110 Side Open





KAIS 120 - Normal





KAIS 120 – Side Open









Holster with belt-clip





Batteries





