## 8 SAR MEASURMENT RESULTS

## 8.1 CELL BAND

The following modes were chosen based on conducted output power measurement results and previous CCS project # 07U11027.

## 8.1.1 PANASONIC CF-29

# 8.1.1.1 **POSITION 1**

-				
GPRS 2 Slots Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
				-
<b>Channel</b> 128 192 251	<b>f (MHz)</b> 824.20	1g (mW/g)	(dB)	1g (mW/g)
<b>Channel</b> 128 192	<b>f (MHz)</b> 824.20 837.00	1g (mW/g)	(dB)	1g (mW/g)

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

#### 8.1.1.2 **POSITION 2**

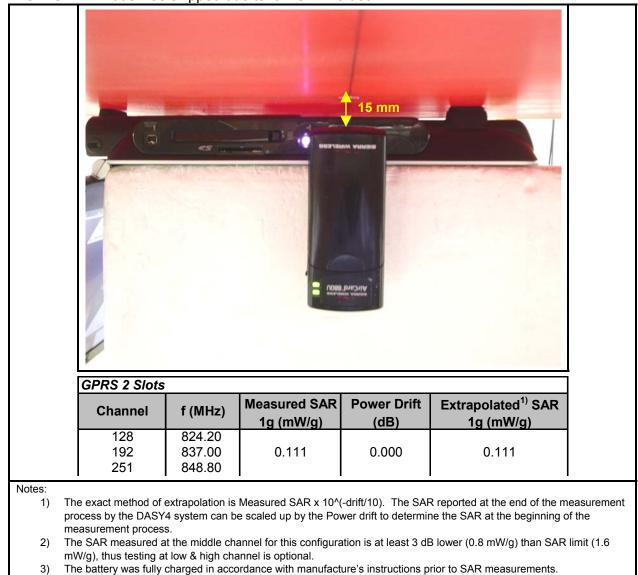
GPRS 2 Slots				
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
128	824.20	.9(9)	(42)	.9 (
192	837.00	0.554	0.000	0.554
251	848.80			
	848.80			
251 WCDMA Channel	848.80 f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
251 <b>WCDMA</b>				
251 WCDMA Channel	f (MHz)			
251 WCDMA Channel	f (MHz)			

mW/g), thus testing at low & high channel is optional.The battery was fully charged in accordance with manufacture's instructions prior to SAR measurements.

## 8.1.2 TOSHIBA SATELLITE

# 8.1.2.1 VERTICAL

The WCDMA mode was skipped due to low SAR values.



## 8.1.2.2 HORIZONTAL

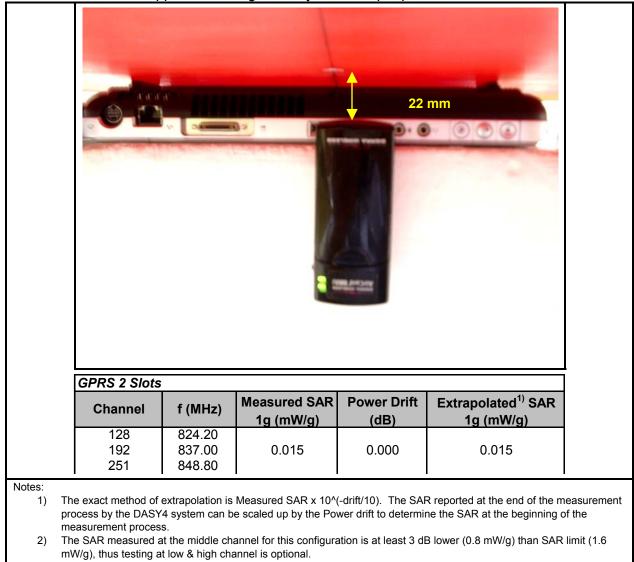
And the second				
				and the second second
		and the second		
		1	8 mm	and the second se
	-	and the second second		
0/1	-	-		
Carrow	Constant of	-	-	
1. 4				
and the			10000	
B				
1				-
1				
GPRS 2 Slots				
GPRS 2 Slots		Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)
Channel 128	<b>f (MHz)</b> 824.20	1g (mW/g)	(dB)	1g (mW/g)
Channel 128 192	f (MHz) 824.20 837.00			
Channel 128 192 251	<b>f (MHz)</b> 824.20	1g (mW/g)	(dB)	1g (mW/g)
Channel 128 192	f (MHz) 824.20 837.00	1g (mW/g) 0.562	(dB) 0.000	1g (mW/g) 0.562
Channel 128 192 251	f (MHz) 824.20 837.00	1g (mW/g) 0.562 Measured SAR	(dB) 0.000 Power Drift	1g (mW/g) 0.562 Extrapolated <sup>1)</sup> SAR
Channel     128     192     251     WCDMA     Channel	f (MHz) 824.20 837.00 848.80 f (MHz)	1g (mW/g) 0.562	(dB) 0.000	1g (mW/g) 0.562
Channel     128     192     251     WCDMA     Channel     4132	f (MHz) 824.20 837.00 848.80 f (MHz) 826.40	1g (mW/g) 0.562 Measured SAR 1g (mW/g)	(dB) 0.000 Power Drift (dB)	1g (mW/g) 0.562 Extrapolated <sup>1)</sup> SAR 1g (mW/g)
Channel     128     192     251     WCDMA     Channel     4132     4182	f (MHz) 824.20 837.00 848.80 f (MHz) 826.40 836.40	1g (mW/g) 0.562 Measured SAR	(dB) 0.000 Power Drift	1g (mW/g) 0.562 Extrapolated <sup>1)</sup> SAR
Channel     128     192     251     WCDMA     Channel     4132	f (MHz) 824.20 837.00 848.80 f (MHz) 826.40	1g (mW/g) 0.562 Measured SAR 1g (mW/g)	(dB) 0.000 Power Drift (dB)	1g (mW/g) 0.562 Extrapolated <sup>1)</sup> SAR 1g (mW/g)

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

## 8.1.3 COMPAQ PRESARIO

## 8.1.3.1 VERTICAL

WCDMA mode was skipped due to significantly lower output power



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

## 8.1.3.2 HORIZONTAL

				12 mm		
	GPRS 2 Slots Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	128 <b>192</b> 251	824.20 <b>837.00</b> 848.80	0.243	-0.091	0.248	
	WCDMA	010.00				1
	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	4132	826.40				]
	4182 4233	836.40 846.60	0.150	-0.074	0.153	
pi m 2) T m	rocess by the DASY neasurement process he SAR measured a nW/g), thus testing a	4 system can b s. at the middle ch t low & high ch	be scaled up by the Por nannel for this configura annel is optional.	wer drift to determination is at least 3 dl	R reported at the end of the n ne the SAR at the beginning B lower (0.8 mW/g) than SAR rrior to SAR measurements.	of the

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

## 8.2 PCS BAND

The following modes were chosen based on conducted output power measurement results and previous CCS project # 07U11027.

## 8.2.1 PANASONIC CF-29

## 8.2.1.1 **POSITION 1**

	-	-				
	-		7 mm	1	0 1 0	
		191				
			And the second second			
		1				
	1 -					
	1	1 X				
	-					
	GPRS 4 Slots	;				
	Channel	f (MHz)	Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	
			1g (mW/g)	(dB)	1g (mW/g)	
	512	1850.20				
	661	1880.00	0.738	0.000	0.738	
	810	<b>1880.00</b> 1909.80	0.738	0.000	0.738	
	810		Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	
	810 WCDMA Channel	1909.80 f (MHz)				
	810 <b>WCDMA</b> Channel 9262	1909.80 <b>f (MHz)</b> 1852.40	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	810 WCDMA Channel 9262 9400	1909.80 <b>f (MHz)</b> 1852.40 1880.00	Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	
	810 <b>WCDMA</b> Channel 9262	1909.80 <b>f (MHz)</b> 1852.40	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
lotes:	810 WCDMA Channel 9262 9400	1909.80 <b>f (MHz)</b> 1852.40 1880.00	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	

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

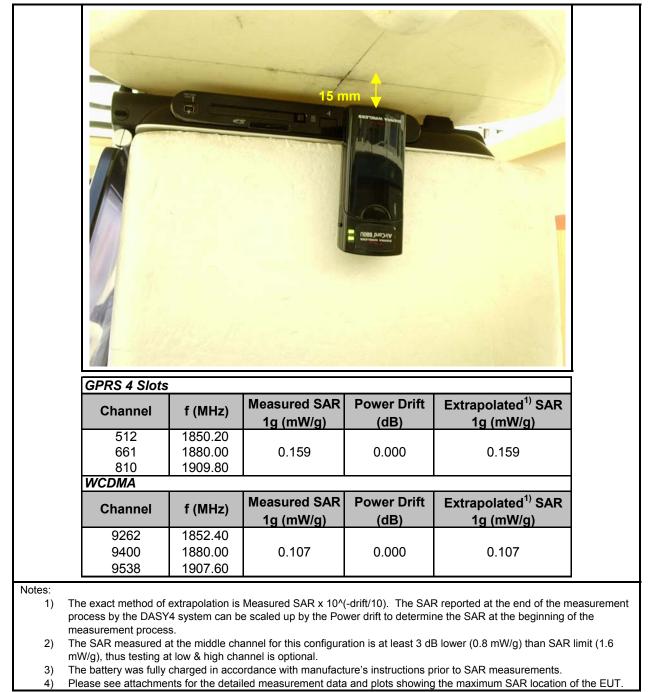
## 8.2.1.2 POSITION 2

			7 mm			
	GPRS 4 Slots Channel	f (MHz)	Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	
			1g (mW/g)	(dB)	1g (mW/g)	
	512 661 810	1850.20 1880.00 1909.80	0.652	0.000	0.652	
	WCDMA		•			
	Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	9262 9400 9538	1852.40 1880.00 1907.60	0.371	0.000	0.371	
pro me 2) Th	ocess by the DASY easurement proces	4 system can b s. at the middle ch	e scaled up by the Pov annel for this configura	wer drift to determin	R reported at the end of the m ne the SAR at the beginning o 3 lower (0.8 mW/g) than SAR	of the

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

## 8.2.2 TOSHIBA SATELLITE

## 8.2.2.1 VERTICAL



#### 8.2.2.2 HORIZONTAL

					-	
	Sec. 1	-				
	States of the second	The second				
	2PUX -	F	7>	-		
		C Constraints	and the second second	the s		
					W.	
	GPRS 4 Slots	5 1	Manager of CAD	Dower Driff		   
	GPRS 4 Slots Channel	f (MHz)	Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	]
	Channel 512	<b>f (MHz)</b> 1850.20	Measured SAR 1g (mW/g)	Power Drift (dB)	1g (mW/g)	
	<b>Channel</b> 512 <b>661</b>	<b>f (MHz)</b> 1850.20 <b>1880.00</b>			-	
	<b>Channel</b> 512 <b>661</b> 810	<b>f (MHz)</b> 1850.20	1g (mW/g)	(dB)	1g (mW/g)	
	<b>Channel</b> 512 <b>661</b>	<b>f (MHz)</b> 1850.20 <b>1880.00</b>	1g (mW/g) 0.470	(dB) 0.000	1g (mW/g) 0.470	
	<b>Channel</b> 512 <b>661</b> 810	<b>f (MHz)</b> 1850.20 <b>1880.00</b>	1g (mW/g) 0.470 Measured SAR	(dB) 0.000 Power Drift	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR	
	Channel     512     661     810     WCDMA     Channel	f (MHz) 1850.20 1880.00 1909.80 f (MHz)	1g (mW/g) 0.470	(dB) 0.000	1g (mW/g) 0.470	
	Channel     512   661     810   WCDMA     Channel   9262	f (MHz)   1850.20   1880.00   1909.80   f (MHz)   1852.40	1g (mW/g) 0.470 Measured SAR 1g (mW/g)	(dB) 0.000 Power Drift (dB)	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	Channel     512     661     810     WCDMA     Channel     9262     9400	f (MHz) 1850.20 1880.00 1909.80 f (MHz) 1852.40 1880.00	1g (mW/g) 0.470 Measured SAR	(dB) 0.000 Power Drift	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR	
	Channel     512   661     810   WCDMA     Channel   9262	f (MHz)   1850.20   1880.00   1909.80   f (MHz)   1852.40	1g (mW/g) 0.470 Measured SAR 1g (mW/g)	(dB) 0.000 Power Drift (dB)	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
	Channel     512   661     810   WCDMA     WCDMA   9262     9400   9538	f (MHz)   1850.20   1880.00   1909.80   f (MHz)   1852.40   1880.00   1907.60	1g (mW/g) 0.470 Measured SAR 1g (mW/g) 0.288	(dB) 0.000 Power Drift (dB) 0.000	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR 1g (mW/g)	- - - - -
pro	Channel 512 661 810 WCDMA Channel 9262 9400 9538 e exact method of pocess by the DASY	f (MHz)   1850.20   1880.00   1909.80   f (MHz)   1852.40   1880.00   1907.60   extrapolation is Y4 system can be	1g (mW/g)     0.470     Measured SAR     1g (mW/g)     0.288     Measured SAR x 10^(	(dB) 0.000 Power Drift (dB) 0.000	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR 1g (mW/g) 0.288	
1) Th pro me	Channel 512 661 810 WCDMA Channel 9262 9400 9538 e exact method of pocess by the DAS easurement proces	f (MHz)     1850.20     1880.00     1909.80     f (MHz)     1852.40     1880.00     1907.60     extrapolation is Y4 system can biss.	1g (mW/g)   0.470   Measured SAR   1g (mW/g)   0.288   Measured SAR x 10^(re scaled up by the Power	(dB) 0.000 Power Drift (dB) 0.000	1g (mW/g) 0.470 Extrapolated <sup>1)</sup> SAR 1g (mW/g) 0.288	of the

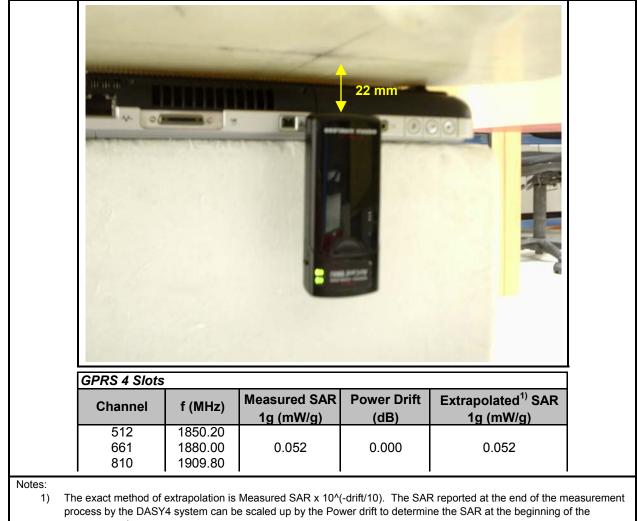
3)

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

#### 8.2.3 **COMPAQ PRESARIO**

#### 8.2.3.1 VERTICAL

WCDMA mode in the following position was skipped due to low SAR values.



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

## 8.2.3.2 HORIZONTAL

GPRS 4 Slots		Measured CAD	Dower Drift		
Channel	f (MHz)	Measured SAR 1g (mW/g)	Power Drift (dB)	Extrapolated <sup>1)</sup> SAR 1g (mW/g)	
512	1850.20				
661 810	1880.00	0.375	0.000	0.375	
810 WCDMA	1909.80				
		Measured SAR	Power Drift	Extrapolated <sup>1)</sup> SAR	
Channel	f (MHz)		(dB)	1g (mW/g)	
9262	1852.40	1g (mW/g)	(dB)	1g (mW/g)	
9262 9400	1852.40 1880.00		(dB) 0.000	<b>1g (mW/g)</b> 0.233	
9262	1852.40	1g (mW/g)			

mW/g), thus testing at low & high channel is optional.

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

## 11 PHOTOS

EUT





Host Device - Compaq





Host Device – Panasonic





## Host Device - Toshiba



