



Appendix F.

System Validation

Probe 1787_DAE495_750MHz_Body_2012/11/20

System Validation - D750V3-SN:1012									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
750	Body	0.962	55.754	0.96	55.5	0.21	0.46	1787	495

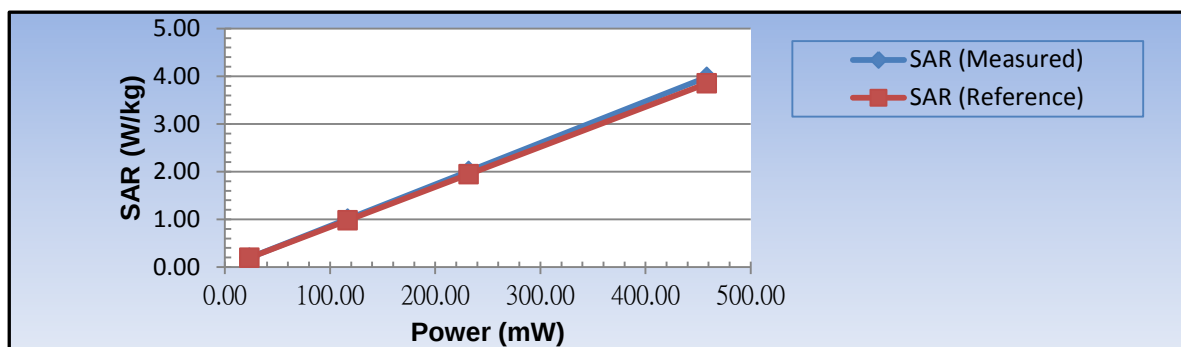
System Validation - D750V3-SN:1012									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		3.85	26.04	0.40179	9.58	8.86	8.15	10	1g
		2.56	26.04	0.40179	6.37	5.91	7.81	10	10g
3.3.2 Step 2 CW	0.20		13.66	0.02323					
	1.01		20.67	0.11668					
	2.01		23.65	0.23174					
	3.98		26.61	0.45814					
3.3.2 Step 3 CW	1.60		22.66	0.18450					

System Validation

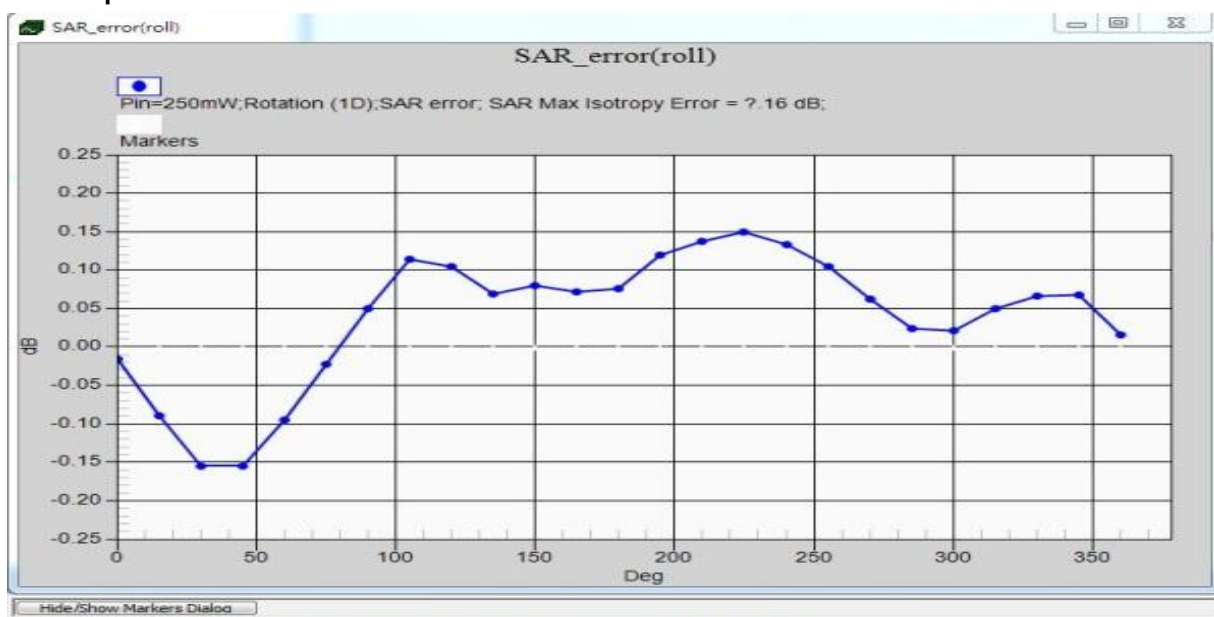
Probe 1787_DAE495_750MHz_Body_2012/11/20

3.3.2 Step 2 CW

Average Power (mW)	23.23	116.68	231.74	458.14
Single Point SAR (W/kg)	0.20	1.01	2.01	3.98
Reference Line (W/kg)	0.20	0.98	1.95	3.85
Deviation (%)	0.00%	2.90%	3.26%	3.48%



3.3.2 Step 3 CW





System Validation

Probe 1787_DAE495_835MHz_Body_2012/11/20

System Validation - D835V2 SN499									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
835	Body	0.984	54.672	0.97	55.2	1.44	-0.96	1787	495
835	Body	0.975	55.136	0.97	55.2	0.52	-0.12	1787	495

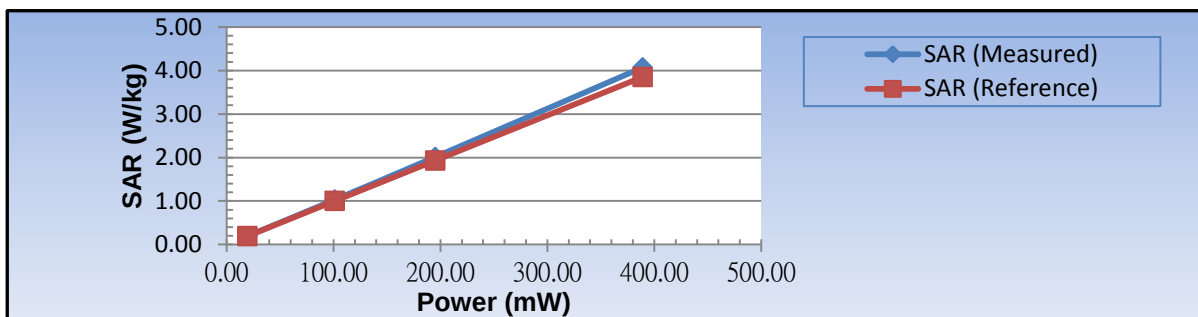
System Validation - D835V2 SN499									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		4.07	25.90	0.38905	10.46	9.82	6.53	10	1g
		2.70	25.90	0.38905	6.94	6.49	6.93	10	10g
3.3.2 Step 2 CW	0.19		12.90	0.01950					
	1.03		20.05	0.10116					
	2.01		22.90	0.19498					
	4.07		25.90	0.38905					
3.3.2 Step 3 CW	1.59		21.88	0.15417					
3.3.3 Step 1 GMSK		1.63	21.89	0.15453	10.55	9.82	7.42	10	1g
		1.07	21.89	0.15453	6.92	6.49	6.69	10	10g

System Validation

Probe 1787_DAE495_835MHz_Body_2012/11/20

3.3.2 Step 2 CW

Average Power (mW)	19.50	101.16	194.98	389.05
Single Point SAR (W/kg)	0.19	1.03	2.01	4.07
Reference Line (W/kg)	0.19	1.00	1.93	3.85
Deviation (%)	0.00%	2.87%	4.15%	5.69%



3.3.2 Step 3 CW





System Validation

Probe 1787_DAE495_1750MHz_Body_2012/11/21

System Validation - D1750V2-SN:1068									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
1750	Body	1.515	52.41	1.52	53.3	-0.33	-1.67	1787	495

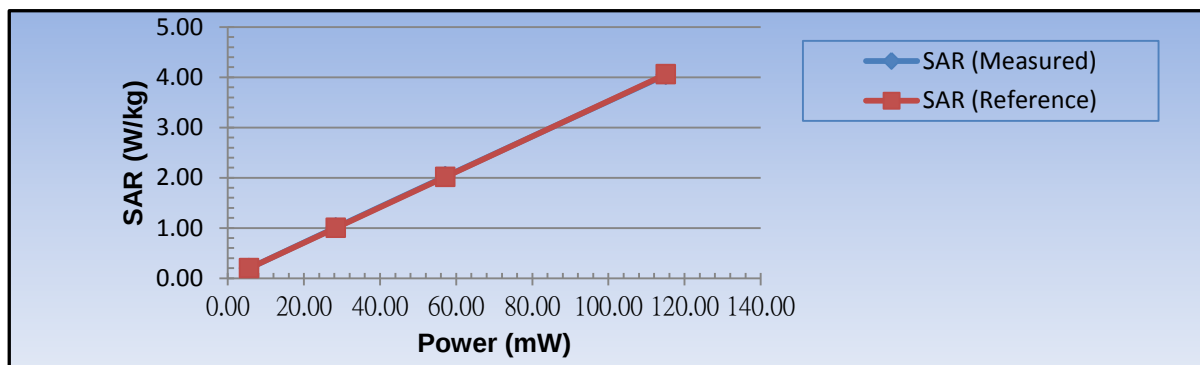
System Validation - D1750V2-SN:1068									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		3.84	20.40	0.10965	35.02	36.80	-4.83	10	1g
		2.10	20.40	0.10965	19.15	19.90	-3.76	10	10g
3.3.2 Step 2 CW	0.197		7.47	0.00558					
	1.007		14.52	0.02831					
	2.024		17.57	0.05715					
	4.049		20.61	0.11508					
3.3.2 Step 3 CW	1.603		16.53	0.04498					

System Validation

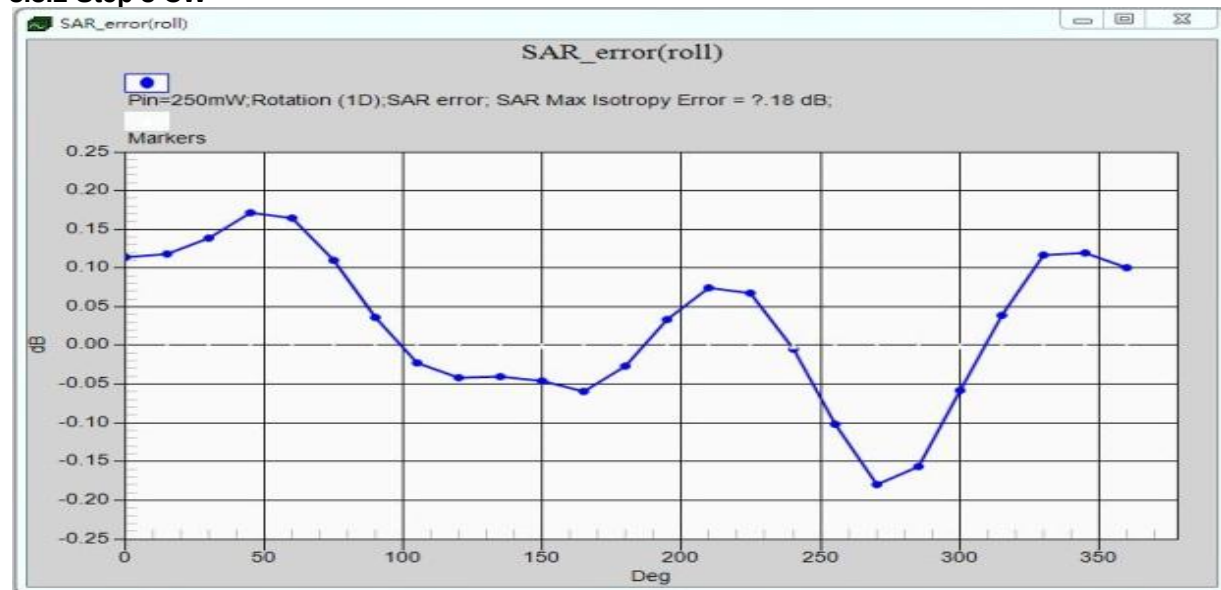
Probe 1787_DAE495_1750MHz_Body_2012/11/21

3.3.2 Step 2 CW

Average Power (mW)	5.58	28.31	57.15	115.08
Single Point SAR (W/kg)	0.20	1.01	2.02	4.05
Reference Line (W/kg)	0.20	1.00	2.02	4.06
Deviation (%)	0.00%	0.82%	0.40%	-0.26%



3.3.2 Step 3 CW





System Validation

Probe 1787_DAE495_1900MHz_Body_2012/11/19

System Validation - D1900V2-SN:5d041									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
1900	Body	1.534	51.986	1.52	53.3	0.92	-2.47	1787	495

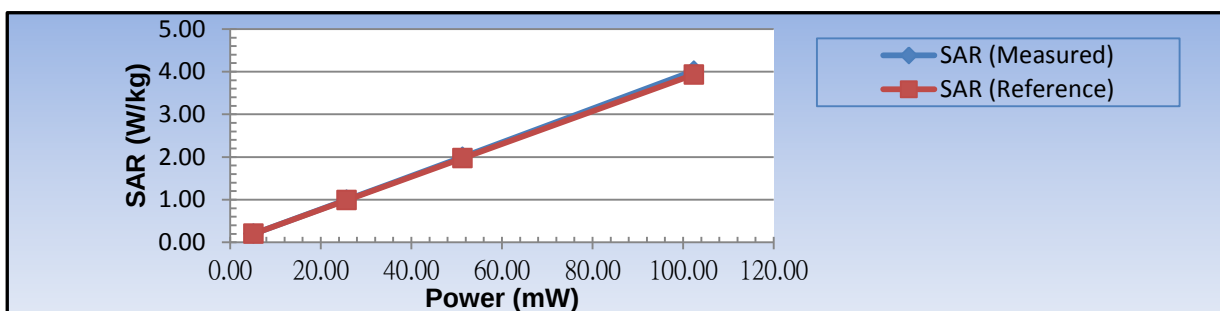
System Validation - D1900V2-SN:5d041									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		4.02	20.10	0.10233	39.28	40.00	-1.79	10	1g
		2.20	20.10	0.10233	21.50	22.10	-2.72	10	10g
3.3.2 Step 2 CW	0.197		7.10	0.00513					
	0.999		14.10	0.02570					
	2.00		17.10	0.05129					
	4.02		20.10	0.10233					
3.3.2 Step 3 CW	1.60		16.20	0.04169					
3.3.3 Step 1 GMSK		1.73	16.45	0.04416	39.18	40.00	-2.05	10	1g
		0.914	16.45	0.04416	20.70	22.10	-6.34	10	10g

System Validation

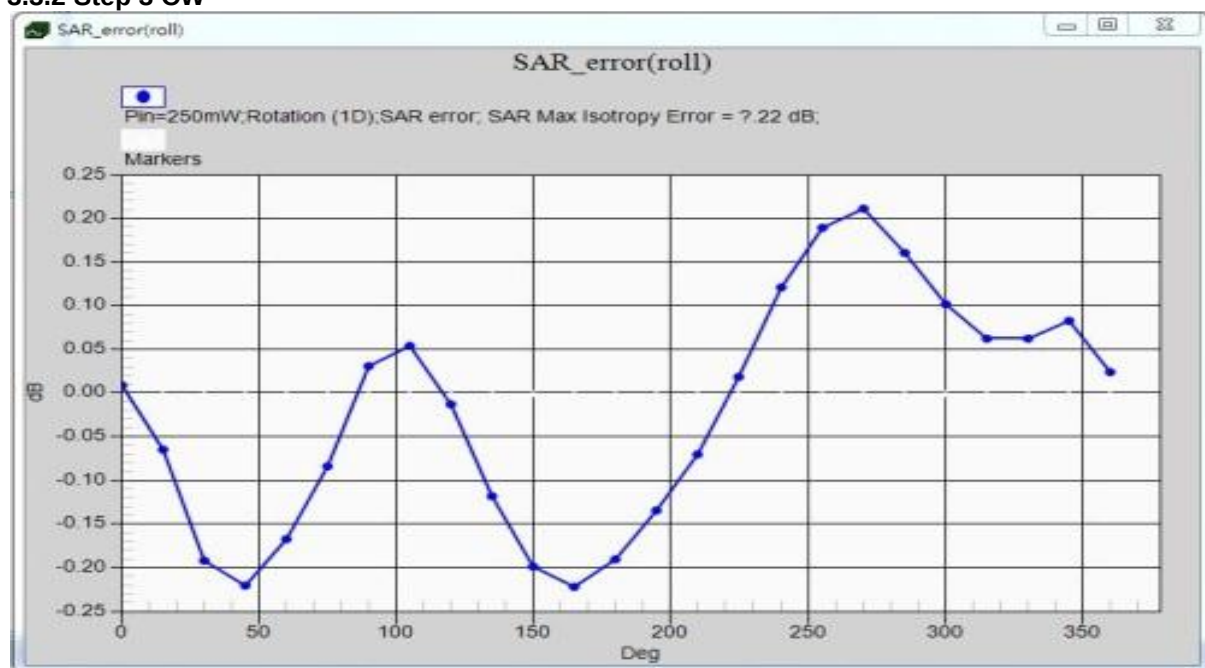
Probe 1787_DAE495_1900MHz_Body_2012/11/19

3.3.2 Step 2 CW

Average Power (mW)	5.13	25.70	51.29	102.33
Single Point SAR (W/kg)	0.20	1.00	2.00	4.02
Reference Line (W/kg)	0.20	0.99	1.97	3.93
Deviation (%)	0.00%	1.18%	1.52%	2.27%



3.3.2 Step 3 CW





System Validation

Probe 3270_DAE775_1750MHz_Body_2012/11/22

System Validation - D1750V2-SN:1068									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
1750	Head	1.411	40.128	1.40	40.0	0.79	0.32	3270	778

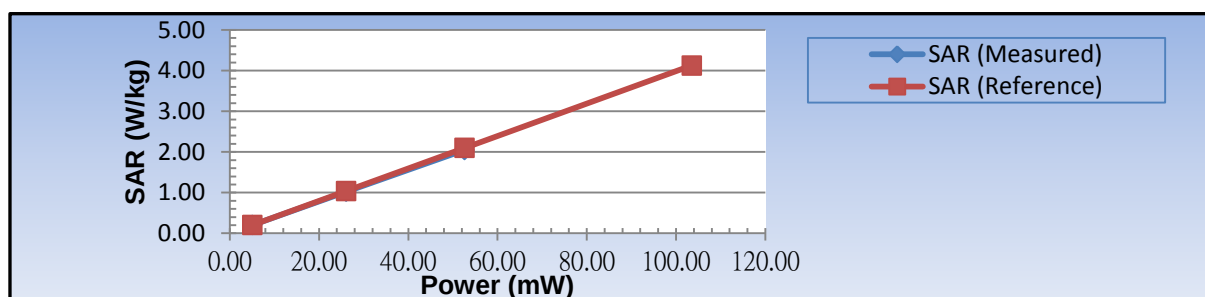
System Validation - D1750V2-SN:1068									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		4.05	20.69	0.11722	34.55	36.01	-4.05	10	1g
		2.12	20.69	0.11722	18.09	19.30	-6.29	10	10g
3.3.2 Step 2 CW	0.203		7.07	0.00509					
	1.02		14.16	0.02606					
	2.048		17.21	0.05260					
	4.028		20.15	0.10351					
3.3.2 Step 3 CW	1.591		16.07	0.04046					

System Validation

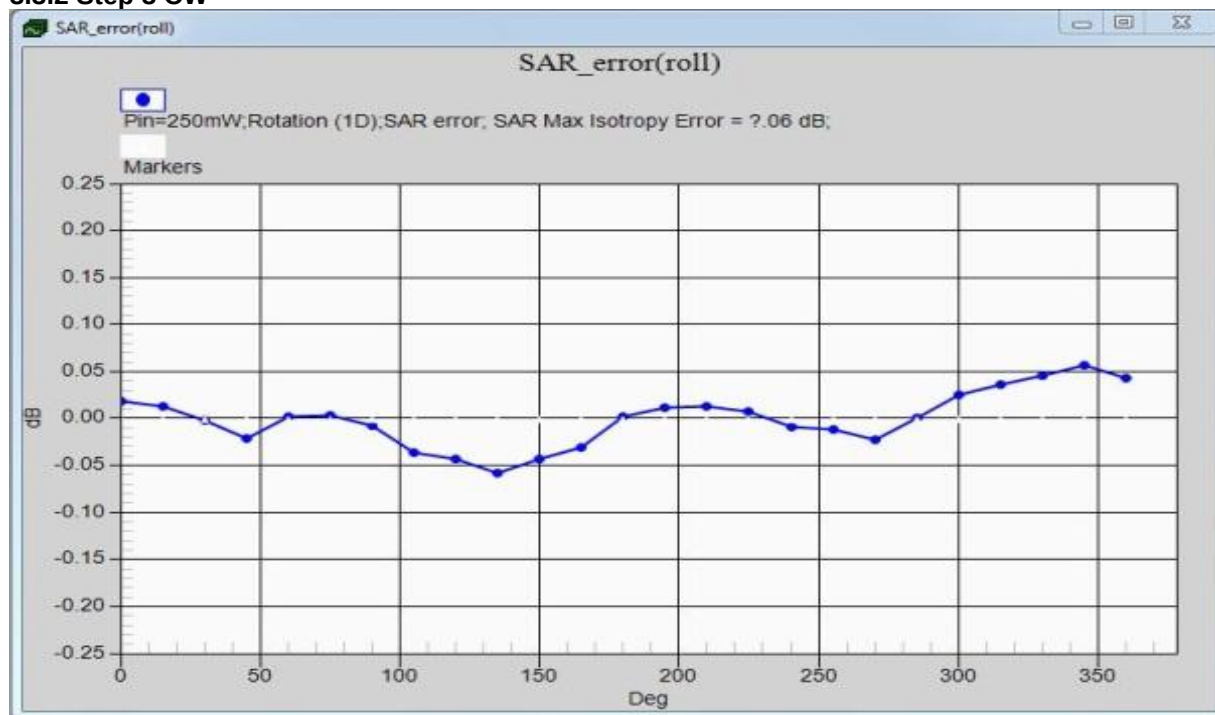
Probe 3270_DAE778_1750MHz_Body_2012/11/22

3.3.2 Step 2 CW

Average Power (mW)	5.09	26.06	52.60	103.51
Single Point SAR (W/kg)	0.20	1.02	2.05	4.03
Reference Line (W/kg)	0.20	1.04	2.10	4.13
Deviation (%)	0.00%	-1.80%	-2.31%	-2.37%



3.3.2 Step 3 CW





System Validation

Probe 3792_DAE1338_2450MHz_Body_2012/11/19

System Validation - D2450V2-SN:736									
Frequency (MHz)	Liquid Type	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Probe	DAE
2450	Body	1.931	53.584	1.95	52.7	-0.97	1.68	3792	1338

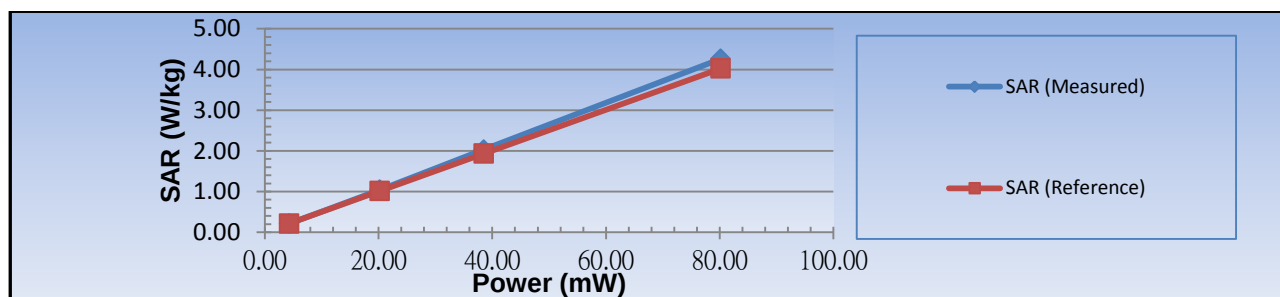
System Validation - D2450V2-SN:736									
Section	Multimeter	Measured SAR (W/kg)	Power Meter (dBm)	Power Meter (W)	1W Normalized SAR (W/kg)	1W Target SAR (W/kg)	Deviation (%)	Deviation Target (%)	Cube
3.3.2 Step 1 CW		4.26	19.04	0.08017	53.14	52.30	1.60	10	1g
		1.95	19.04	0.08017	24.32	24.50	-0.72	10	10g
3.3.2 Step 2 CW	0.212		6.26	0.00423					
	1.04		13.05	0.02018					
	2.03		15.85	0.03846					
	4.26		19.04	0.08017					
3.3.2 Step 3 CW	1.62		14.94	0.03119					
3.3.3 Step 2 OFDM		4.01	18.65	0.07328	54.72	52.30	4.63	10	1g
		1.82	18.65	0.07328	24.84	24.50	1.37	10	10g
3.3.3 Step 3 OFDM	0.20		5.97	0.00395					
	0.97		12.66	0.01845					
	1.93		15.65	0.03673					
	4.01		18.65	0.07328					

System Validation

Probe 3792_DAE1338_2450MHz_Body_2012/11/19

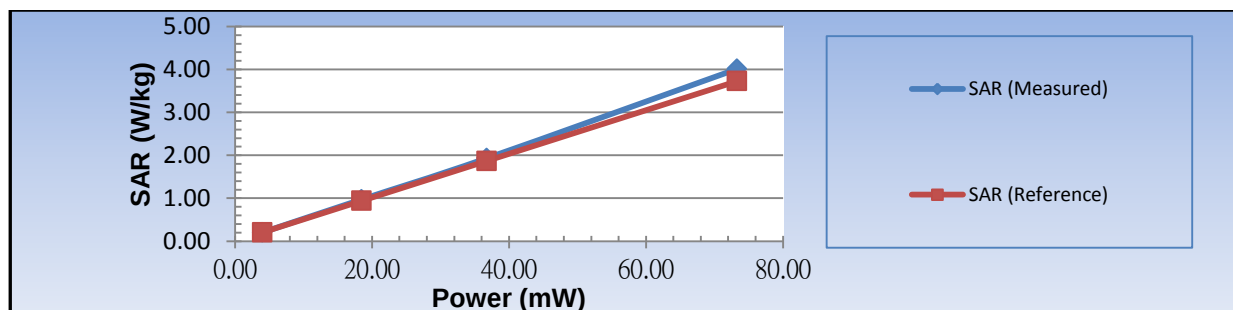
3.3.2 Step 2 CW

Average Power (mW)	4.23	20.18	38.46	80.17
Single Point SAR (W/kg)	0.21	1.04	2.03	4.26
Reference Line (W/kg)	0.21	1.01	1.93	4.02
Deviation (%)	0.00%	2.73%	5.23%	5.94%



3.3.3 Step 3 OFDM

Average Power (mW)	3.95	18.45	36.73	73.28
Single Point SAR (W/kg)	0.20	0.97	1.93	4.01
Reference Line (W/kg)	0.20	0.94	1.87	3.73
Deviation (%)	0.00%	3.52%	3.36%	7.63%



System Validation

Probe 3792_DAE1338_2450MHz_Body_2012/11/19

3.3.2 Step 3 CW

