

**Table 14.14: SAR Values (LTE Band4 - Head) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
1720	20050	1RB_High	Left	Touch	/	23.54	24.2	0.220	<b>0.26</b>	0.328	<b>0.38</b>	0.10
1720	20050	1RB_High	Left	Tilt	/	23.54	24.2	0.118	<b>0.14</b>	0.198	<b>0.23</b>	0.09
1720	20050	1RB_High	Right	Touch	Fig.11	23.54	24.2	0.387	<b>0.45</b>	0.584	<b>0.68</b>	-0.04
1720	20050	1RB_High	Right	Tilt	/	23.54	24.2	0.116	<b>0.14</b>	0.202	<b>0.24</b>	-0.10
1745	20300	50RB_Low	Left	Touch	/	22.63	23.2	0.153	<b>0.17</b>	0.250	<b>0.29</b>	0.15
1745	20300	50RB_Low	Left	Tilt	/	22.63	23.2	0.090	<b>0.10</b>	0.151	<b>0.17</b>	0.17
1745	20300	50RB_Low	Right	Touch	/	22.63	23.2	0.314	<b>0.36</b>	0.521	<b>0.59</b>	-0.03
1745	20300	50RB_Low	Right	Tilt	/	22.63	23.2	0.082	<b>0.09</b>	0.142	<b>0.16</b>	0.08

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.15: SAR Values (LTE Band4 - Body) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1720	20050	1RB_High	Front	/	23.54	24.2	0.378	<b>0.44</b>	0.603	<b>0.70</b>	0.01
1745	20300	1RB_High	Rear	Fig.12	23.45	24.2	0.505	<b>0.60</b>	0.868	<b>1.03</b>	-0.03
1732.5	20175	1RB_High	Rear	/	23.50	24.2	0.490	<b>0.58</b>	0.799	<b>0.94</b>	0.00
1720	20050	1RB_High	Rear	/	23.54	24.2	0.524	<b>0.61</b>	0.832	<b>0.97</b>	-0.18
1720	20050	1RB_High	Left	/	23.54	24.2	0.064	<b>0.07</b>	0.109	<b>0.13</b>	-0.12
1720	20050	1RB_High	Right	/	23.54	24.2	0.111	<b>0.13</b>	0.187	<b>0.22</b>	-0.05
1720	20050	1RB_High	Bottom	/	23.54	24.2	0.323	<b>0.38</b>	0.593	<b>0.69</b>	0.02
1745	20300	50RB_Low	Front	/	22.63	23.2	0.264	<b>0.30</b>	0.428	<b>0.49</b>	-0.02
1745	20300	50RB_Low	Rear	/	22.63	23.2	0.342	<b>0.39</b>	0.556	<b>0.63</b>	-0.05
1745	20300	50RB_Low	Left	/	22.63	23.2	0.054	<b>0.06</b>	0.092	<b>0.10</b>	-0.10
1745	20300	50RB_Low	Right	/	22.63	23.2	0.090	<b>0.10</b>	0.153	<b>0.17</b>	0.04
1745	20300	50RB_Low	Bottom	/	22.63	23.2	0.263	<b>0.30</b>	0.487	<b>0.56</b>	0.02
1745	20300	100RB	Rear	/	22.62	23.2	0.405	<b>0.46</b>	0.677	<b>0.77</b>	-0.06

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.16: SAR Values (LTE Band7 - Head) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
2535	21100	1RB_High	Left	Touch	/	21.66	21.8	0.044	<b>0.05</b>	0.082	<b>0.08</b>	0.11
2535	21100	1RB_High	Left	Tilt	/	21.66	21.8	0.027	<b>0.03</b>	0.051	<b>0.05</b>	0.08
2535	21100	1RB_High	Right	Touch	Fig.13	21.66	21.8	0.154	<b>0.16</b>	0.275	<b>0.28</b>	-0.12
2535	21100	1RB_High	Right	Tilt	/	21.66	21.8	0.024	<b>0.02</b>	0.046	<b>0.05</b>	-0.15
2535	21100	50RB_Mid	Left	Touch	/	20.68	20.8	0.028	<b>0.03</b>	0.050	<b>0.05</b>	0.17
2535	21100	50RB_Mid	Left	Tilt	/	20.68	20.8	0.016	<b>0.02</b>	0.029	<b>0.03</b>	0.11
2535	21100	50RB_Mid	Right	Touch	/	20.68	20.8	0.105	<b>0.11</b>	0.209	<b>0.21</b>	0.15
2535	21100	50RB_Mid	Right	Tilt	/	20.68	20.8	0.014	<b>0.01</b>	0.026	<b>0.03</b>	0.18

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.17: SAR Values (LTE Band7 - Body) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2535	21100	1RB_High	Front	/	21.66	21.8	0.046	<b>0.05</b>	0.097	<b>0.10</b>	0.13
2560	21350	1RB_High	Rear	Fig.14	21.61	21.8	0.660	<b>0.69</b>	1.38	<b>1.44</b>	0.16
2535	21100	1RB_High	Rear	/	21.66	21.8	0.648	<b>0.67</b>	1.37	<b>1.41</b>	-0.17
2510	20850	1RB_High	Rear	/	21.46	21.8	0.603	<b>0.65</b>	1.19	<b>1.29</b>	0.17
2535	21100	1RB_High	Left	/	21.66	21.8	0.016	<b>0.02</b>	0.034	<b>0.04</b>	0.16
2535	21100	1RB_High	Right	/	21.66	21.8	0.045	<b>0.05</b>	0.085	<b>0.09</b>	0.19
2535	21100	1RB_High	Bottom	/	21.66	21.8	0.349	<b>0.36</b>	0.736	<b>0.76</b>	0.11
2535	21100	50RB_Mid	Front	/	20.68	20.8	0.031	<b>0.03</b>	0.059	<b>0.06</b>	-0.09
2560	21350	50RB_Mid	Rear	/	20.62	20.8	0.365	<b>0.38</b>	0.817	<b>0.85</b>	-0.12
2535	21100	50RB_Mid	Rear	/	20.68	20.8	0.373	<b>0.38</b>	0.825	<b>0.85</b>	0.13
2510	20850	50RB_Mid	Rear	/	20.62	20.8	0.364	<b>0.38</b>	0.815	<b>0.85</b>	-0.08
2535	21100	50RB_Mid	Left	/	20.68	20.8	0.006	<b>0.01</b>	0.012	<b>0.01</b>	-0.15
2535	21100	50RB_Mid	Right	/	20.68	20.8	0.071	<b>0.07</b>	0.128	<b>0.13</b>	0.11
2535	21100	50RB_Mid	Bottom	/	20.68	20.8	0.151	<b>0.16</b>	0.311	<b>0.32</b>	0.17
2535	21100	100RB	Rear	/	20.68	20.8	0.368	<b>0.38</b>	0.819	<b>0.84</b>	0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.18: SAR Values (LTE Band17 - Head) – CAC2150002C2**

Ambient Temperature: 22.2 °C      Liquid Temperature: 21.7 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
711	23800	1RB_Low	Left	Touch	/	23.58	24.2	0.141	<b>0.16</b>	0.180	<b>0.21</b>	0.04
711	23800	1RB_Low	Left	Tilt	/	23.58	24.2	0.080	<b>0.09</b>	0.113	<b>0.13</b>	0.00
711	23800	1RB_Low	Right	Touch	Fig.15	23.58	24.2	0.153	<b>0.18</b>	0.194	<b>0.22</b>	0.09
711	23800	1RB_Low	Right	Tilt	/	23.58	24.2	0.072	<b>0.08</b>	0.102	<b>0.12</b>	0.11
709	23780	25RB_Low	Left	Touch	/	22.60	23.2	0.099	<b>0.11</b>	0.141	<b>0.16</b>	0.10
709	23780	25RB_Low	Left	Tilt	/	22.60	23.2	0.066	<b>0.08</b>	0.094	<b>0.11</b>	0.07
709	23780	25RB_Low	Right	Touch	/	22.60	23.2	0.107	<b>0.12</b>	0.154	<b>0.18</b>	0.11
709	23780	25RB_Low	Right	Tilt	/	22.60	23.2	0.058	<b>0.07</b>	0.083	<b>0.10</b>	0.09

Note1: The LTE mode is QPSK\_10MHz.

**Table 14.19: SAR Values (LTE Band17 - Body) – CAC2150002C2**

Ambient Temperature: 22.2 °C      Liquid Temperature: 21.7 °C

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
711	23800	1RB_Low	Front	/	23.58	24.2	0.142	<b>0.16</b>	0.196	<b>0.23</b>	-0.03
711	23800	1RB_Low	Rear	Fig.16	23.58	24.2	0.322	<b>0.37</b>	0.411	<b>0.47</b>	-0.04
711	23800	1RB_Low	Left	/	23.58	24.2	0.091	<b>0.10</b>	0.130	<b>0.15</b>	0.04
711	23800	1RB_Low	Right	/	23.58	24.2	0.131	<b>0.15</b>	0.185	<b>0.21</b>	-0.12
711	23800	1RB_Low	Bottom	/	23.58	24.2	0.037	<b>0.04</b>	0.058	<b>0.07</b>	0.07
709	23780	25RB_Low	Front	/	22.60	23.2	0.125	<b>0.14</b>	0.172	<b>0.20</b>	0.01
709	23780	25RB_Low	Rear	/	22.60	23.2	0.255	<b>0.29</b>	0.355	<b>0.41</b>	0.02
709	23780	25RB_Low	Left	/	22.60	23.2	0.083	<b>0.10</b>	0.118	<b>0.14</b>	-0.02
709	23780	25RB_Low	Right	/	22.60	23.2	0.124	<b>0.14</b>	0.175	<b>0.20</b>	0.06
709	23780	25RB_Low	Bottom	/	22.60	23.2	0.032	<b>0.04</b>	0.050	<b>0.06</b>	-0.05

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.20: SAR Values (Wi-Fi 802.11b - Head) – CAC2150002C2**

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.3 °C		Liquid Temperature: 21.8 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
2462	11	Left	Touch	Fig.17	19.11	19.5	0.390	<b>0.43</b>	0.746	<b>0.82</b>	0.02
2462	11	Left	Tilt	/	19.11	19.5	0.367	<b>0.40</b>	0.689	<b>0.75</b>	0.09
2462	11	Right	Touch	/	19.11	19.5	0.349	<b>0.38</b>	0.615	<b>0.67</b>	-0.14
2462	11	Right	Tilt	/	19.11	19.5	0.301	<b>0.33</b>	0.599	<b>0.66</b>	0.05

**Table 14.21: SAR Values (Wi-Fi 802.11b - Body) – CAC2150002C2**

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.3 °C		Liquid Temperature: 21.8 °C		Power Drift (dB)
MHz	Ch.					Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
2462	11	Front	/	19.11	19.5	0.120	<b>0.13</b>	0.231	<b>0.25</b>	0.00
2462	11	Rear	Fig.18	19.11	19.5	0.147	<b>0.16</b>	0.297	<b>0.32</b>	0.10
2462	11	Right	/	19.11	19.5	0.024	<b>0.03</b>	0.046	<b>0.05</b>	0.11
2462	11	Top	/	19.11	19.5	0.104	<b>0.11</b>	0.190	<b>0.21</b>	0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.22: SAR Values (LTE Band4 - Head) – CAC2150003C1**

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.3 °C		Liquid Temperature: 21.8 °C		Power Drift (dB)
MHz	Ch.							Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
1720	20050	1RB_High	Right	Touch	/	23.54	24.2	0.372	<b>0.43</b>	0.563	<b>0.66</b>	-0.08

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.23: SAR Values (LTE Band7 - Body) – CAC2150003C1**

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Ambient Temperature: 22.2 °C		Liquid Temperature: 21.7 °C		Power Drift (dB)
MHz	Ch.						Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	
2560	21350	1RB_High	Rear	/	21.61	21.8	0.621	<b>0.65</b>	1.29	<b>1.35</b>	0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

## 14.2 SAR results for Standard procedure

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

**Table 14.24: SAR Values (GSM 850 MHz Band - Head) – CAC2150002C2**

Ambient Temperature: 22.1 °C      Liquid Temperature: 21.6 °C											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
824.2	128	Left	Touch	Fig.1	32.41	33	0.194	<b>0.22</b>	0.254	<b>0.29</b>	-0.07

**Table 14.25: SAR Values (GSM 850 MHz Band - Body) – CAC2150002C2**

Ambient Temperature: 22.1 °C      Liquid Temperature: 21.6 °C											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
824.2	128	GPRS (2)	Rear	Fig.2	30.75	31	0.586	<b>0.62</b>	0.701	<b>0.74</b>	0.01

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.26: SAR Values (GSM 1900 MHz Band - Head) – CAC2150002C2**

Ambient Temperature: 22.1 °C      Liquid Temperature: 21.6 °C											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1880	661	Right	Touch	Fig.3	29.27	30	0.170	<b>0.20</b>	0.280	<b>0.33</b>	0.14

**Table 14.27: SAR Values (GSM 1900 MHz Band - Body) – CAC2150002C2**

Ambient Temperature: 22.1 °C      Liquid Temperature: 21.6 °C											
Frequency		Mode (number of timeslots)	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1880	661	GPRS (4)	Bottom	Fig.4	25.33	26	0.436	<b>0.51</b>	0.835	<b>0.97</b>	-0.17

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.28: SAR Values (WCDMA 850 MHz Band - Head) – CAC2150002C2**

Ambient Temperature: 22.1 °C      Liquid Temperature: 21.6 °C											
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
826.4	4132	Right	Touch	Fig.5	22.90	23	0.187	<b>0.19</b>	0.248	<b>0.25</b>	0.13

**Table 14.29: SAR Values (WCDMA 850 MHz Band - Body) – CAC2150002C2**

Ambient Temperature: 22.1 °C						Liquid Temperature: 21.6 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
826.4	4132	Rear	Fig.6	22.90	23	0.406	<b>0.42</b>	0.520	<b>0.53</b>	-0.09

Note1: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.30: SAR Values (WCDMA 1900 MHz Band - Head) – CAC2150002C2**

Ambient Temperature: 22.1 °C						Liquid Temperature: 21.6 °C					
Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1880	9400	Right	Touch	Fig.7	22.82	23	0.383	<b>0.40</b>	0.632	<b>0.66</b>	0.02

**Table 14.31: SAR Values (WCDMA 1900 MHz Band - Body) – CAC2150002C2**

Ambient Temperature: 22.1 °C						Liquid Temperature: 21.6 °C				
Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
1880	9400	Rear	Fig.8	22.82	23	0.595	<b>0.62</b>	1.06	<b>1.10</b>	-0.08

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.32: SAR Values (LTE Band2 - Head) – CAC2150002C2**

Ambient Temperature: 22.1 °C						Liquid Temperature: 21.6 °C						
Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
1880	18900	1RB_Low	Right	Touch	Fig.9	23.85	24.2	0.319	<b>0.35</b>	0.514	<b>0.56</b>	0.11

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.33: SAR Values (LTE Band2 - Body) – CAC2150002C2**

Ambient Temperature: 22.1 °C						Liquid Temperature: 21.6 °C					
Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1880	18900	1RB_Low	Rear	Fig.10	23.85	24.2	0.549	<b>0.60</b>	1	<b>1.08</b>	-0.19

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.34: SAR Values (LTE Band4 - Head) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
1720	20050	1RB_High	Right	Touch	Fig.11	23.54	24.2	0.387	<b>0.45</b>	0.584	<b>0.68</b>	-0.04

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.35: SAR Values (LTE Band4 - Body) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
1745	20300	1RB_High	Rear	Fig.12	23.45	24.2	0.505	<b>0.60</b>	0.868	<b>1.03</b>	-0.03

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.36: SAR Values (LTE Band7 - Head) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
2535	21100	1RB_High	Right	Touch	Fig.13	21.66	21.8	0.154	<b>0.16</b>	0.275	<b>0.28</b>	-0.12

Note1: The LTE mode is QPSK\_20MHz.

**Table 14.37: SAR Values (LTE Band7 - Body) – CAC2150002C2**

Ambient Temperature: 22.3 °C      Liquid Temperature: 21.8 °C

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2560	21350	1RB_High	Rear	Fig.14	21.61	21.8	0.660	<b>0.69</b>	1.38	<b>1.44</b>	0.16

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_20MHz.

**Table 14.38: SAR Values (LTE Band17 - Head) – CAC2150002C2**

Ambient Temperature: 22.2 °C      Liquid Temperature: 21.7 °C

Frequency		Mode	Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.											
709	23780	25RB_Low	Left	Touch	Fig.15	22.60	23.2	0.153	<b>0.18</b>	0.194	<b>0.22</b>	0.09

Note1: The LTE mode is QPSK\_10MHz.



**Table 14.39: SAR Values (LTE Band17 - Body) – CAC2150002C2**

Frequency		Mode	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
711	23800	1RB_Low	Rear	Fig.16	23.58	24.2	0.322	<b>0.37</b>	0.411	<b>0.47</b>	-0.04

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK\_10MHz.

**Table 14.40: SAR Values (Wi-Fi 802.11b - Head) – CAC2150002C2**

Frequency		Side	Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.										
2462	11	Left	Touch	Fig.17	19.11	19.5	0.390	<b>0.43</b>	0.746	<b>0.82</b>	0.02

**Table 14.41: SAR Values (Wi-Fi 802.11b - Body) – CAC2150002C2**

Frequency		Test Position	Figure No.	Conducted Power (dBm)	Max. tune-up Power (dBm)	Measured SAR(10g) (W/kg)	Reported SAR(10g) (W/kg)	Measured SAR(1g) (W/kg)	Reported SAR(1g) (W/kg)	Power Drift (dB)
MHz	Ch.									
2462	11	Rear	Fig.18	19.11	19.5	0.147	<b>0.16</b>	0.297	<b>0.32</b>	0.10

Note1: The distance between the EUT and the phantom bottom is 10mm.



## 15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

**Table 15.1: SAR Measurement Variability for Body GSM 1900 (1g)**

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
1880	661	Bottom	10	0.835	0.812	1.03	/

**Table 15.2: SAR Measurement Variability for Body WCDMA 1900 (1g)**

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
1880	9400	Rear	10	1.06	1.04	1.02	/

**Table 15.3: SAR Measurement Variability for Body LTE Band 2 (1g)**

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
1880	18900	Rear	10	1	1	1.00	/

**Table 15.4: SAR Measurement Variability for Body LTE Band 4 (1g)**

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
1745	20300	Rear	10	0.868	0.862	1.01	/

**Table 15.5: SAR Measurement Variability for Body LTE Band 7 (1g)**

Frequency		Test Position	Spacing (mm)	Original SAR (W/kg)	First Repeated SAR (W/kg)	The Ratio	Second Repeated SAR (W/kg)
MHz	Ch.						
2560	21350	Rear	10	1.38	1.37	1.01	/

## 16 Measurement Uncertainty

### 16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
<b>Measurement system</b>										
1	Probe calibration	B	5.5	N	1	1	1	5.5	5.5	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
<b>Test sample related</b>										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
<b>Phantom and set-up</b>										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521

Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$							9.25	9.12	257
Expanded uncertainty (confidence interval of 95 %)	$u_e = 2u_c$							18.5	18.2	

### 16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
<b>Measurement system</b>										
1	Probe calibration	B	6.5	N	1	1	1	6.5	6.5	∞
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	∞
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	∞
11	Probe positioned mech. restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	∞
13	Post-processing	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
<b>Test sample related</b>										
14	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
15	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
16	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
<b>Phantom and set-up</b>										
17	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
18	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
19	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43

20	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	$\infty$
21	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						10.8	10.7	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						21.6	21.4	

### 16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
<b>Measurement system</b>										
1	Probe calibration	B	5.5	N	1	1	1	5.5	5.5	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. Restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	$\infty$
12	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	$\infty$
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
14	Fast SAR z-Approximation	B	7.0	R	$\sqrt{3}$	1	1	4.0	4.0	$\infty$
<b>Test sample related</b>										
15	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	71
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	$\infty$
<b>Phantom and set-up</b>										

18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	$\infty$
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						10.1	9.95	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						20.2	19.9	

#### 16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
<b>Measurement system</b>										
1	Probe calibration	B	6.5	N	1	1	1	6.5	6.5	$\infty$
2	Isotropy	B	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	$\infty$
3	Boundary effect	B	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	$\infty$
4	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	$\infty$
5	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
6	Readout electronics	B	0.3	R	$\sqrt{3}$	1	1	0.3	0.3	$\infty$
7	Response time	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
8	Integration time	B	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	$\infty$
9	RF ambient conditions-noise	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
10	RF ambient conditions-reflection	B	0	R	$\sqrt{3}$	1	1	0	0	$\infty$
11	Probe positioned mech. Restrictions	B	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	$\infty$
12	Probe positioning with respect to phantom shell	B	6.7	R	$\sqrt{3}$	1	1	3.9	3.9	$\infty$
13	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	$\infty$
14	Fast SAR z-Approximation	B	14.0	R	$\sqrt{3}$	1	1	8.1	8.1	$\infty$
<b>Test sample related</b>										
15	Test sample	A	3.3	N	1	1	1	3.3	3.3	71

	positioning									
16	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
17	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	$\infty$
<b>Phantom and set-up</b>										
18	Phantom uncertainty	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	$\infty$
19	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	$\infty$
20	Liquid conductivity (meas.)	A	2.06	N	1	0.64	0.43	1.32	0.89	43
21	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	$\infty$
22	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	1.0	0.8	521
Combined standard uncertainty		$u_c = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$						13.3	13.2	257
Expanded uncertainty (confidence interval of 95 %)		$u_e = 2u_c$						26.6	26.4	

## 17 MAIN TEST INSTRUMENTS

Table 17.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46110673	February 15, 2014	One year
02	Power meter	NRVD	102083	September 11, 2013	One year
03	Power sensor	NRV-Z5	100542		
04	Signal Generator	E4438C	MY49070393	November 08, 2013	One Year
05	Amplifier	60S1G4	0331848	No Calibration Requested	
06	BTS	E5515C	MY50263375	January 30, 2014	One year
07	BTS	CMW500	129942	March 11, 2014	One year
08	E-field Probe	SPEAG EX3DV4	3846	September 03, 2013	One year
09	DAE	SPEAG DAE4	771	November 12, 2013	One year
10	Dipole Validation Kit	SPEAG D750V3	1017	August 29, 2013	One year
11	Dipole Validation Kit	SPEAG D835V2	443	August 29, 2013	One year
12	Dipole Validation Kit	SPEAG D1750V2	1003	September 03, 2013	One year
13	Dipole Validation Kit	SPEAG D1900V2	5d101	July 09, 2013	One year
14	Dipole Validation Kit	SPEAG D2450V2	853	July 08, 2013	One year
15	Dipole Validation Kit	SPEAG D2600V2	1012	July 05, 2013	One year

\*\*\*END OF REPORT BODY\*\*\*

## ANNEX A Graph Results

### 850 Left Cheek Low

Date: 2014-5-29

Electronics: DAE4 Sn771

Medium: Head 850 MHz

Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.908 \text{ mho/m}$ ;  $\epsilon_r = 42.568$ ;  $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature:  $22.1^\circ\text{C}$       Liquid Temperature:  $21.6^\circ\text{C}$

Communication System: GSM 850 Frequency:  $824.2 \text{ MHz}$  Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3846 ConvF(8.92, 8.92, 8.92)

**Cheek Low/Area Scan (61x111x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.264 \text{ W/kg}$

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $6.465 \text{ V/m}$ ; Power Drift =  $-0.07 \text{ dB}$

Peak SAR (extrapolated) =  $0.305 \text{ W/kg}$

**SAR(1 g) =  $0.254 \text{ W/kg}$ ; SAR(10 g) =  $0.194 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.265 \text{ W/kg}$

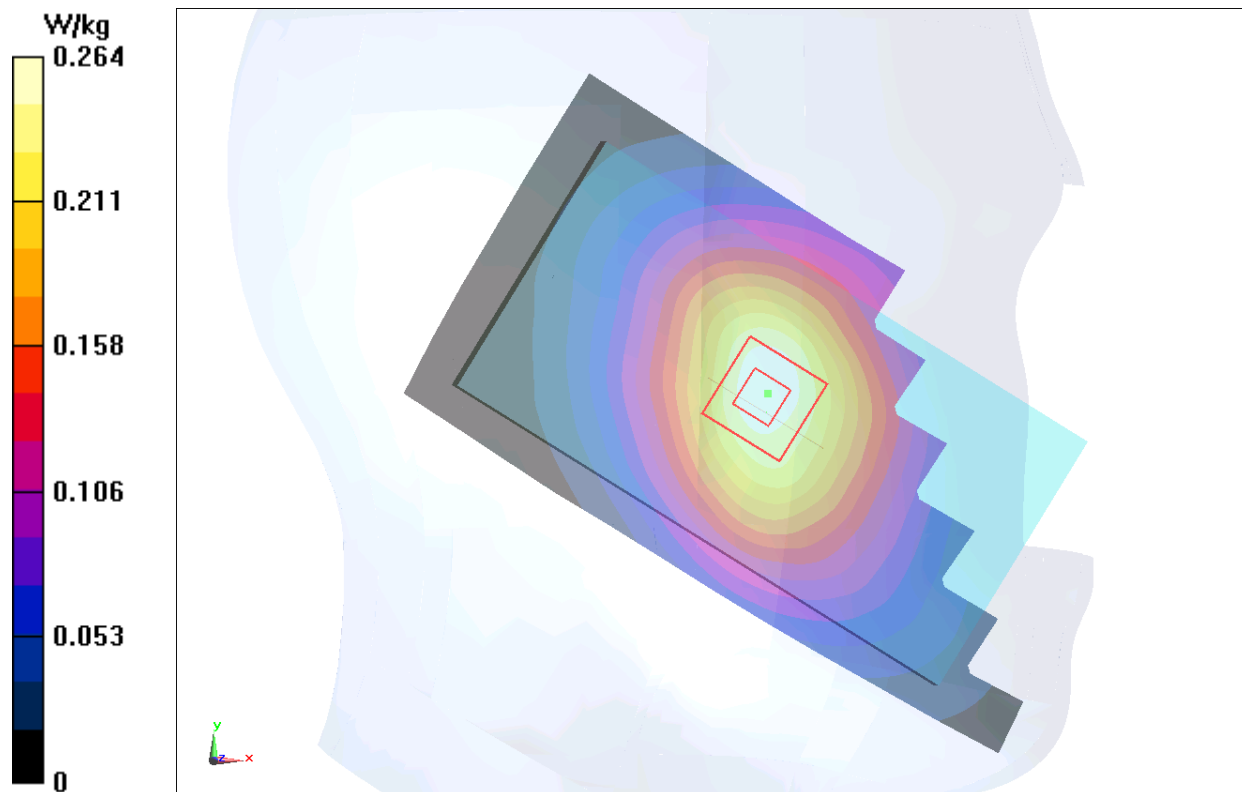
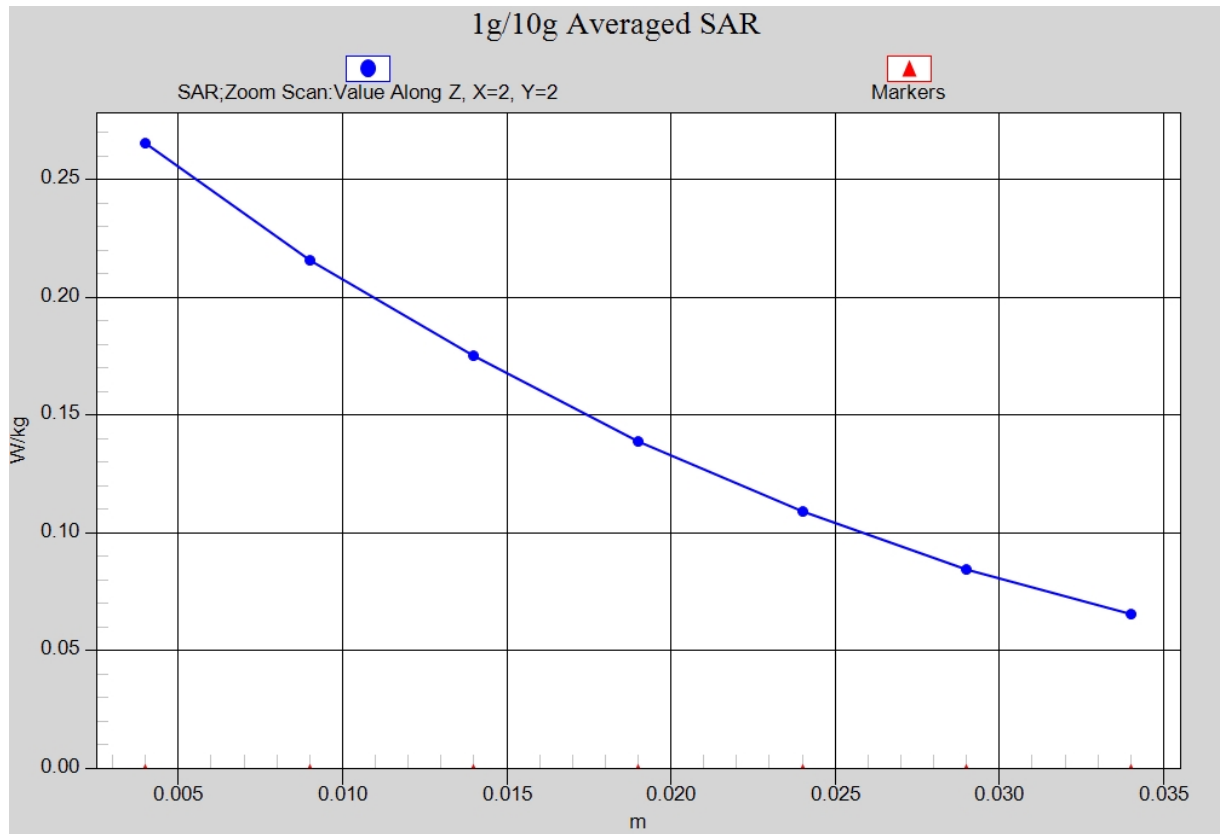


Fig.1 850MHz CH128





**Fig. 1-1 Z-Scan at power reference point (850 MHz CH128)**

### 850 Body Rear Low

Date: 2014-5-29

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 56.631$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: GSM 850 GPRS Frequency: 824.2 MHz Duty Cycle: 1:4

Probe: EX3DV4 - SN3846 ConvF(8.73, 8.73, 8.73)

**Rear Low/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.733 W/kg

**Rear Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.697 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.701 W/kg; SAR(10 g) = 0.586 W/kg**

Maximum value of SAR (measured) = 0.749 W/kg

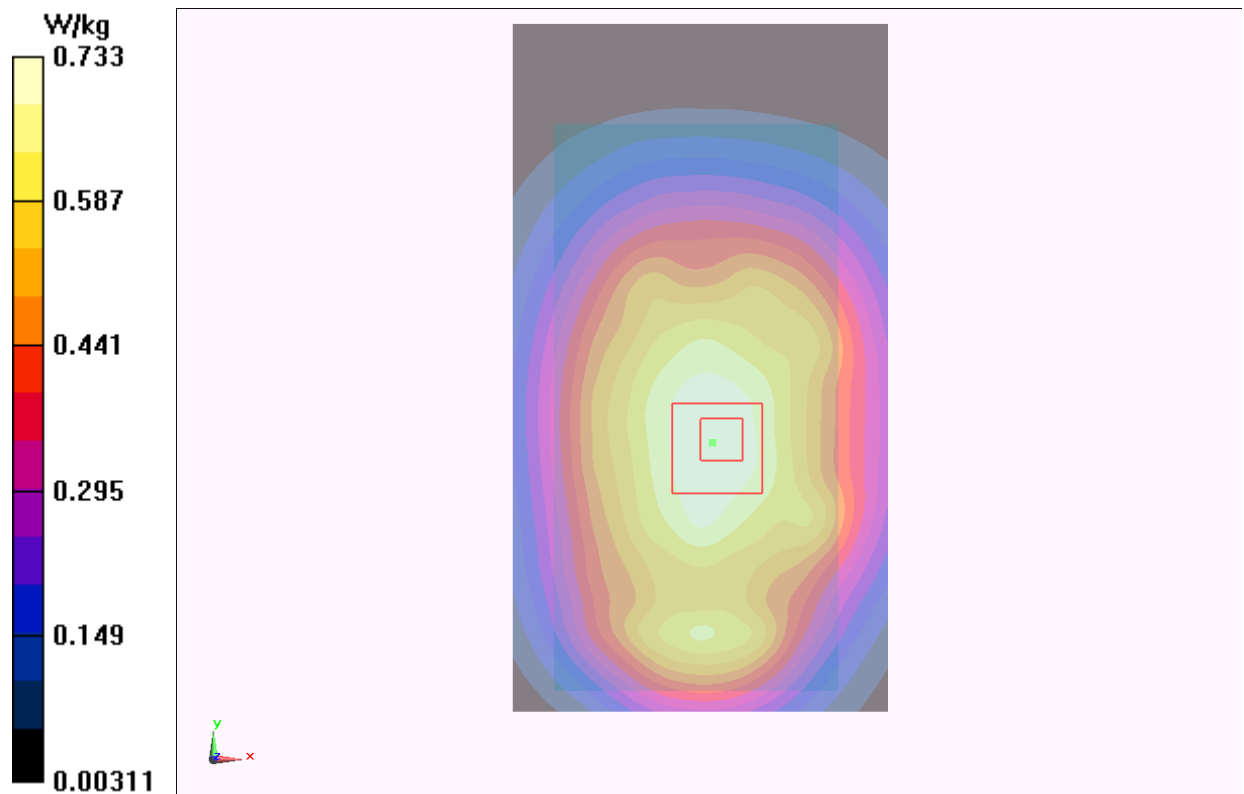
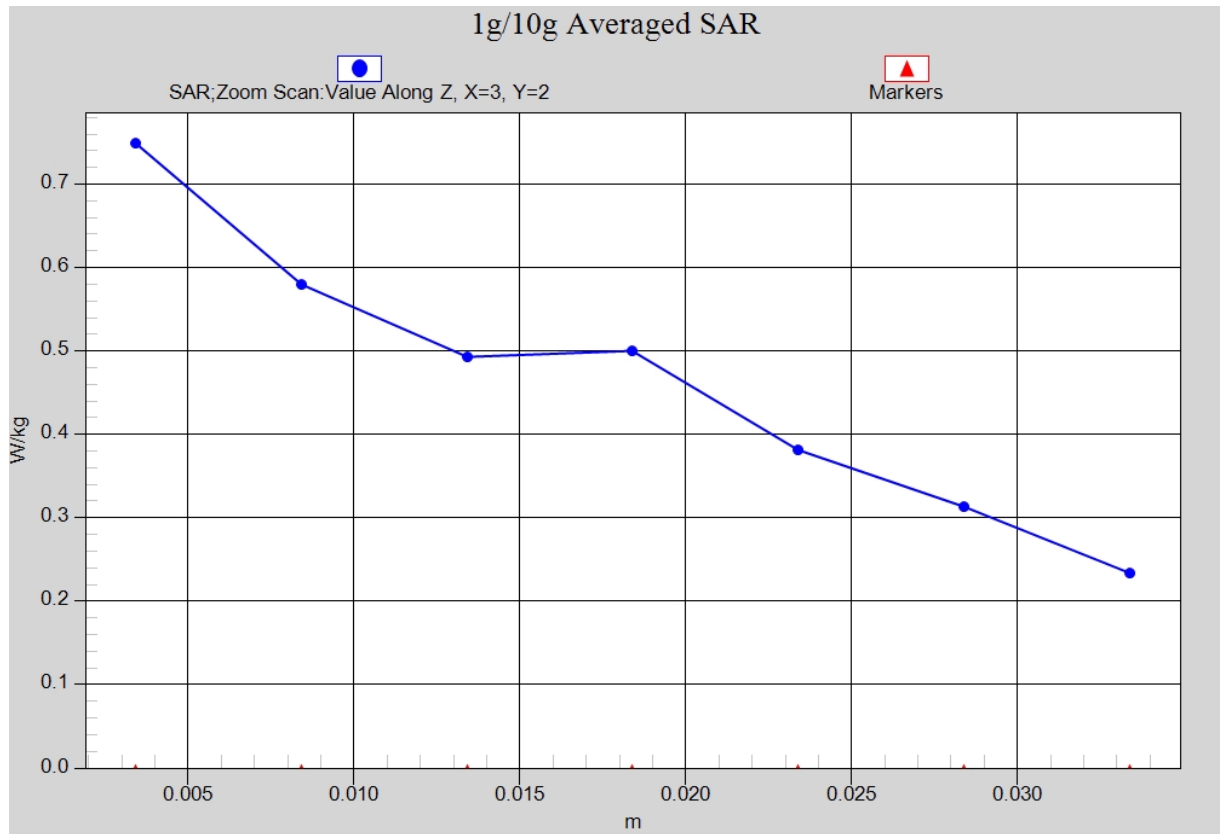


Fig.2 850 MHz CH128



**Fig. 2-1 Z-Scan at power reference point (850 MHz CH128)**

### 1900 Right Cheek Middle

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.379$  mho/m;  $\epsilon_r = 41.606$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: GSM 1900MHz Frequency: 1880 MHz Duty Cycle: 1:8.3

Probe: EX3DV4 - SN3846 ConvF(7.57, 7.57, 7.57)

**Cheek Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.337 W/kg

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.509 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.434 W/kg

**SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.170 W/kg**

Maximum value of SAR (measured) = 0.326 W/kg

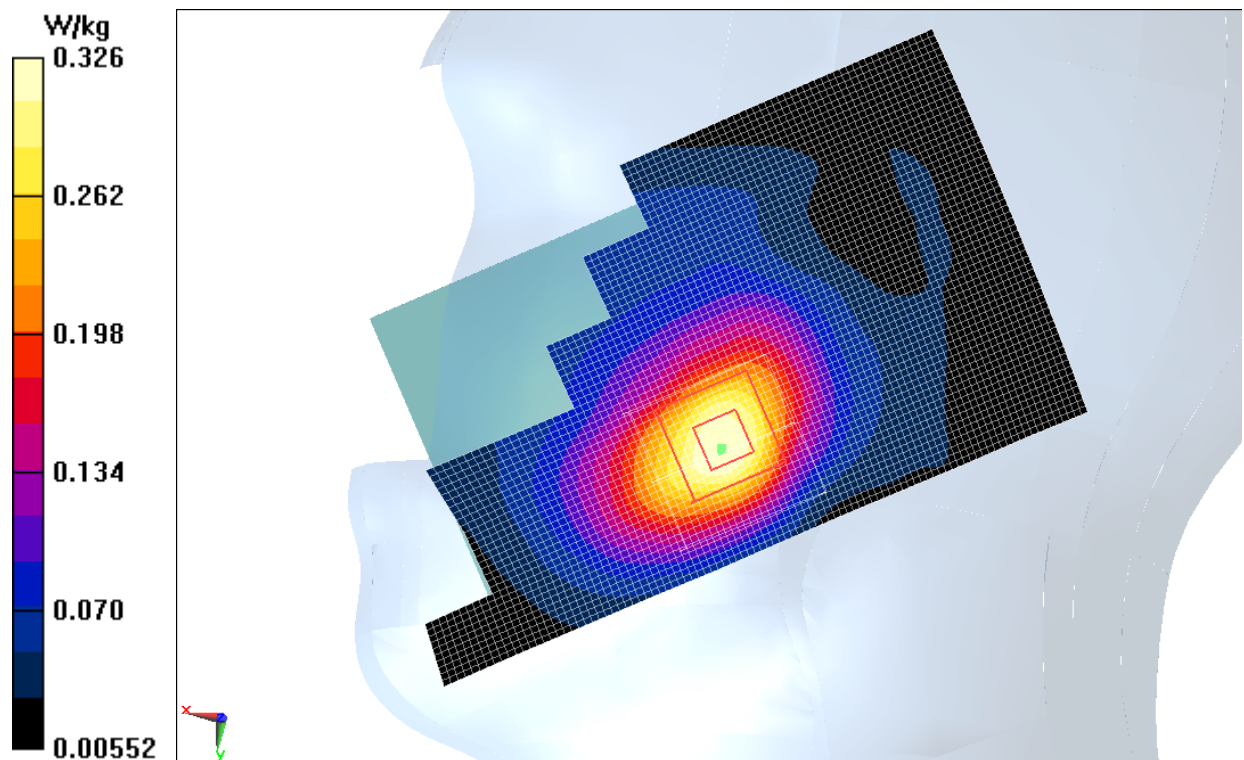
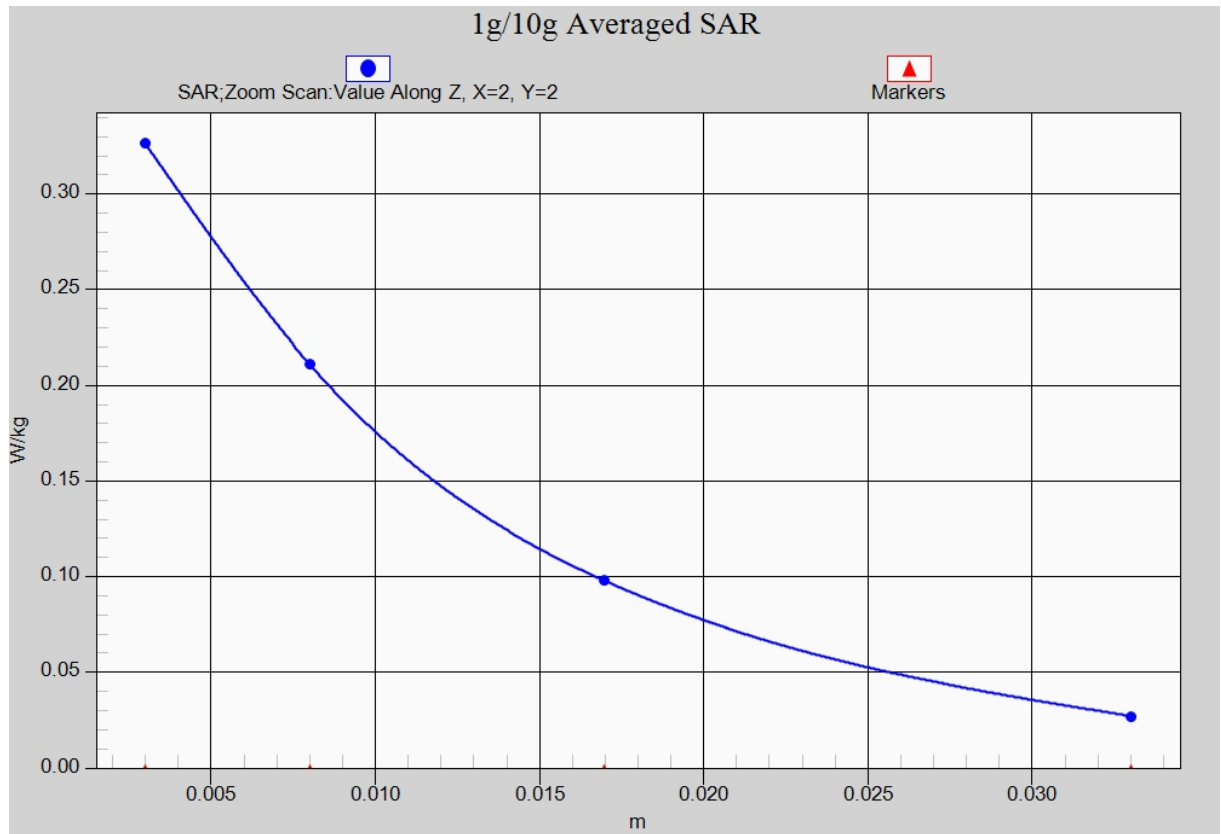


Fig.4 1900 MHz CH661



**Fig. 3-1 Z-Scan at power reference point (1900 MHz CH661)**

### 1900 Body Bottom Side Middle

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.787$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: GSM 1900MHz GPRS Frequency: 1880 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN3846 ConvF(7.03, 7.03, 7.03)

**Bottom Side Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

**Bottom Side Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.453 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.40 W/kg

**SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.436 W/kg**

Maximum value of SAR (measured) = 0.949 W/kg

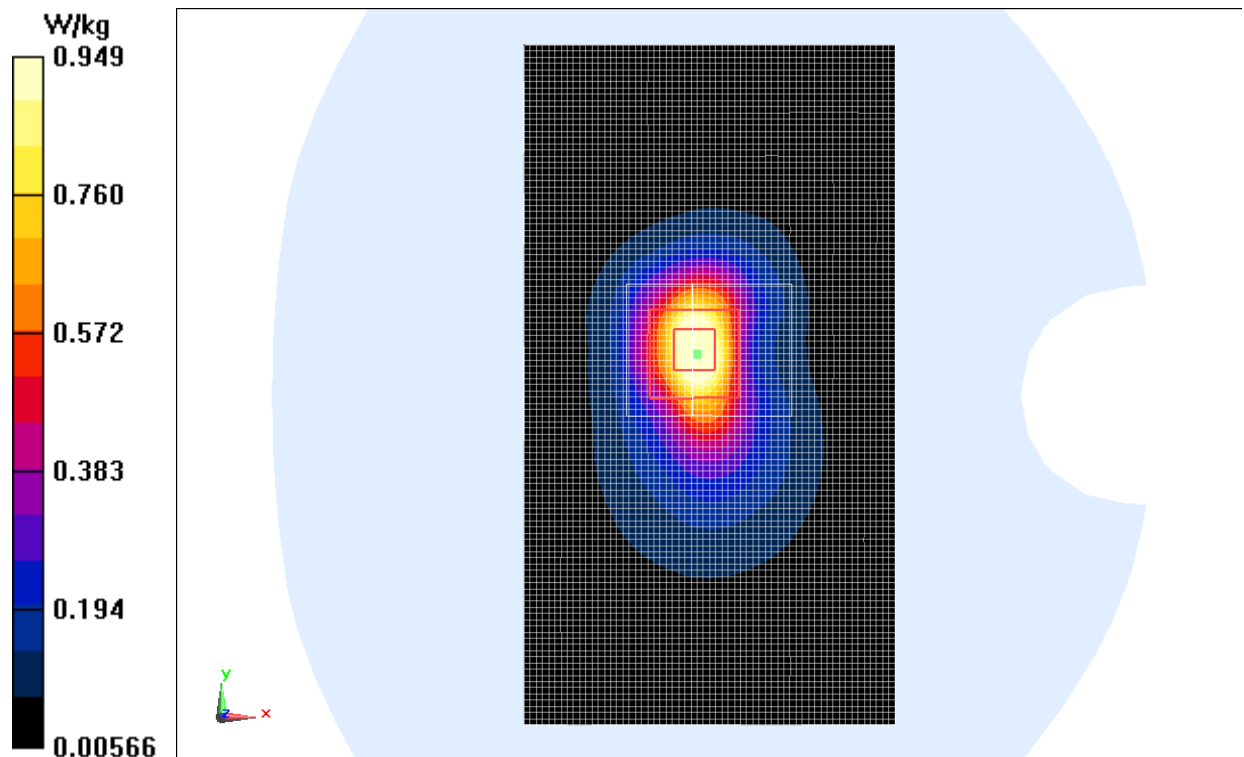
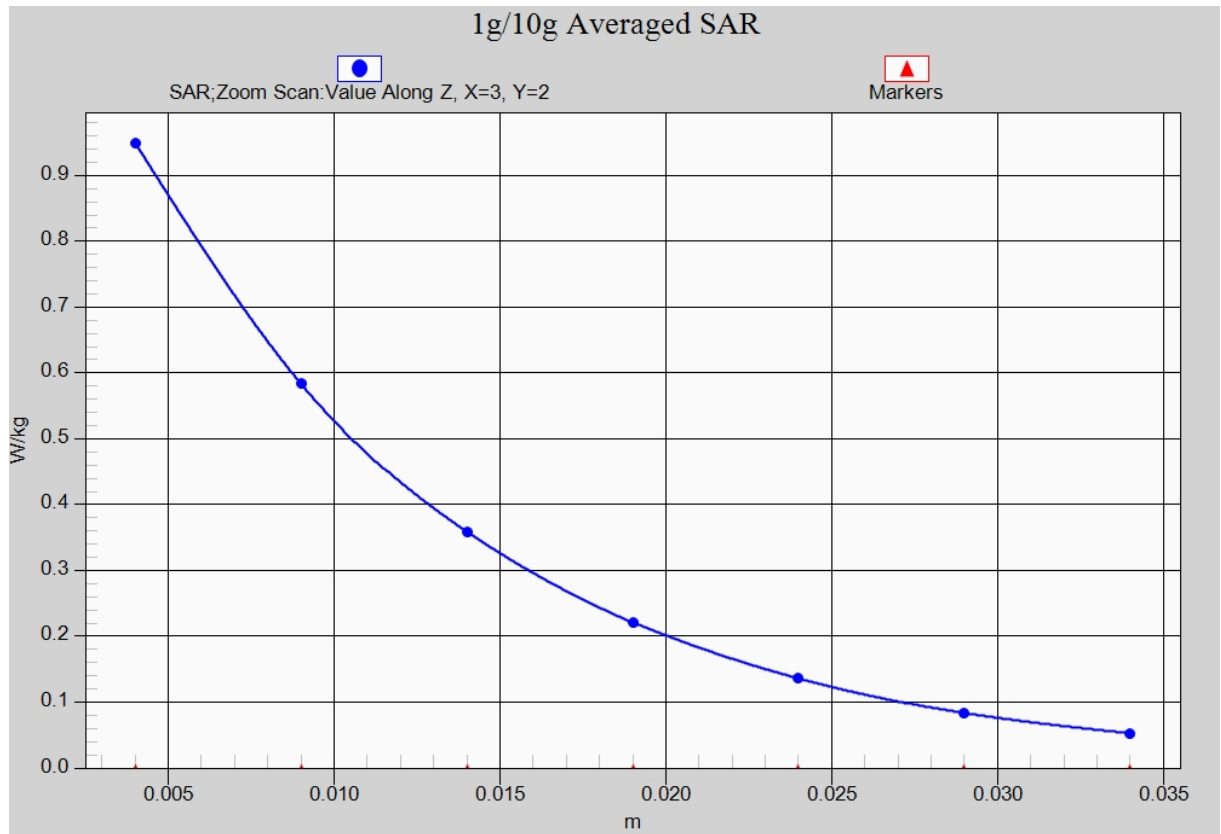


Fig.4 1900 MHz CH661



**Fig.4-1 Z-Scan at power reference point (1900 MHz CH661)**



**WCDMA 850 Right Cheek Low**

Date: 2014-5-29

Electronics: DAE4 Sn771

Medium: Head 850 MHz

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.909$  mho/m;  $\epsilon_r = 42.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.92, 8.92, 8.92)

**Cheek Low/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.261 W/kg

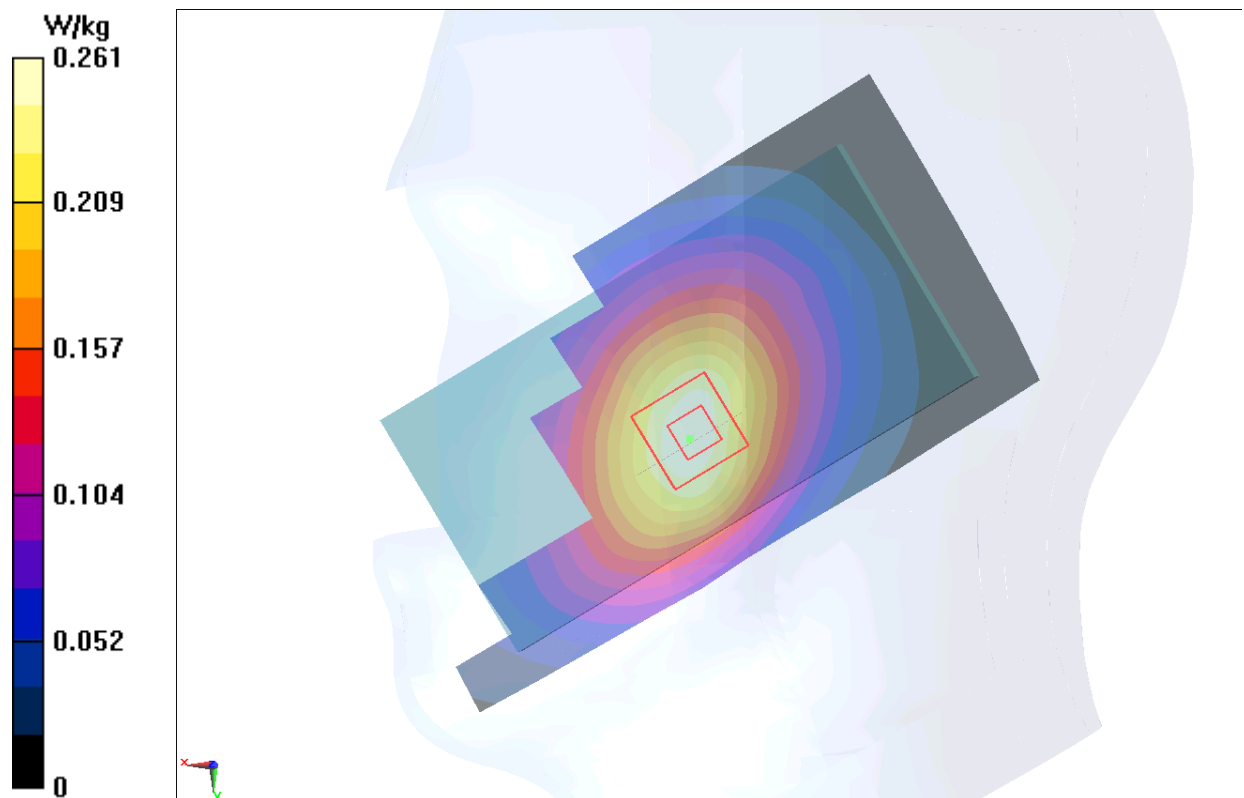
**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.234 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.309 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.187 W/kg**

Maximum value of SAR (measured) = 0.260 W/kg



**Fig.5 WCDMA 850 CH4132**

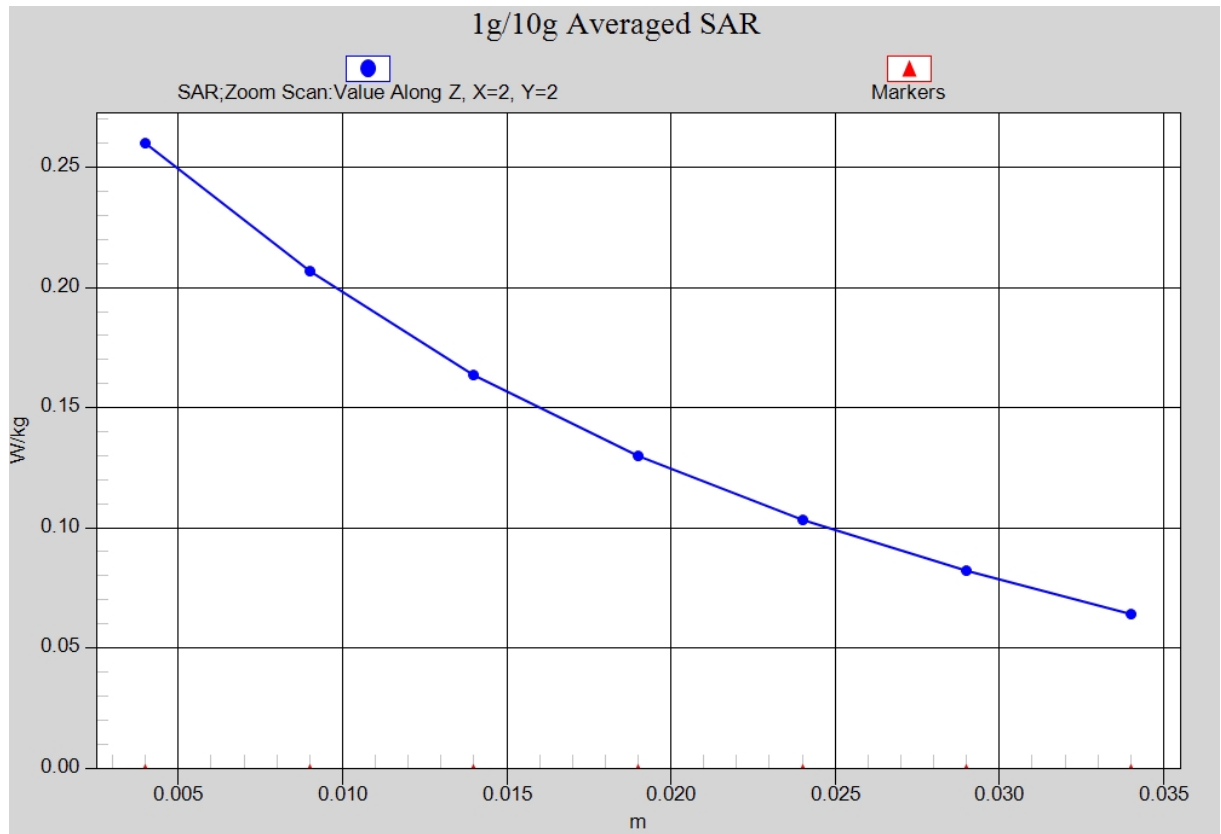


Fig. 5-1 Z-Scan at power reference point (WCDMA 850 CH4132)

**WCDMA 850 Body Rear Low**

Date: 2014-5-29

Electronics: DAE4 Sn771

Medium: Body 850 MHz

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.921$  mho/m;  $\epsilon_r = 56.616$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.73, 8.73, 8.73)

**Rear Low/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.537 W/kg

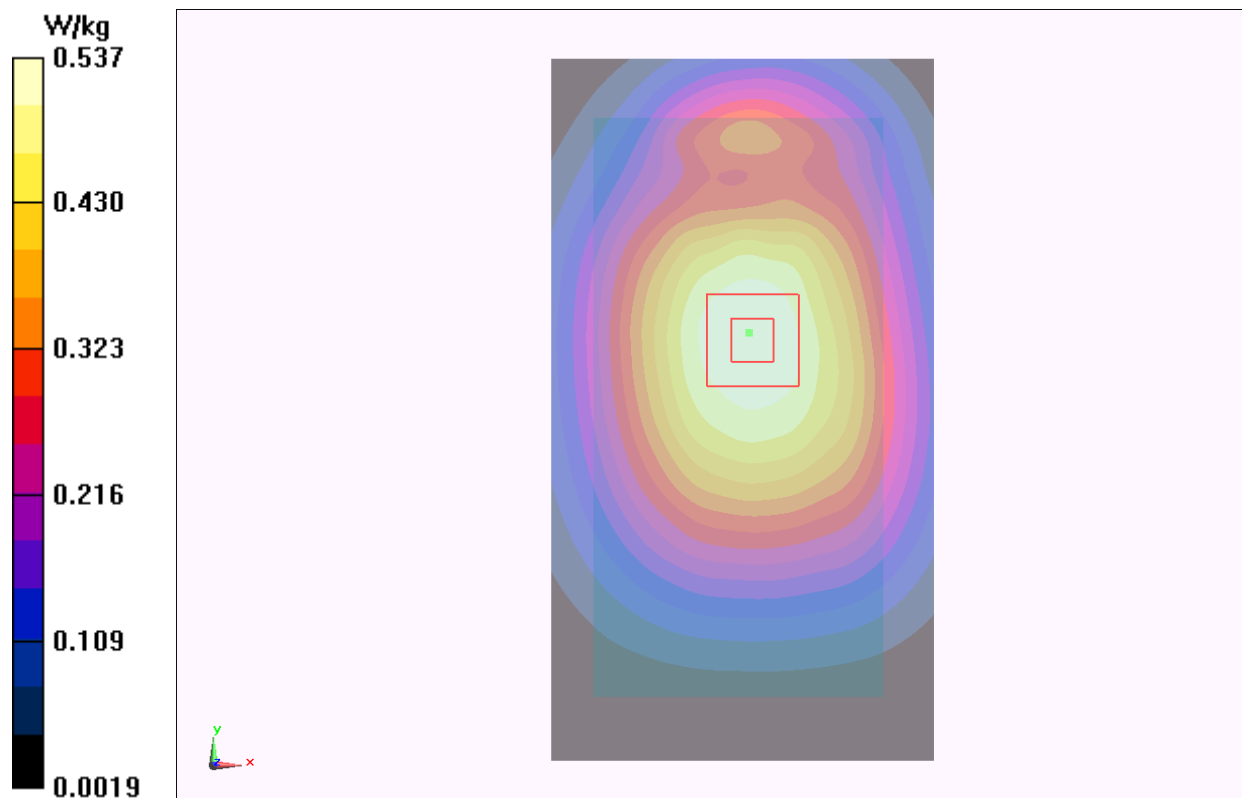
**Rear Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.691 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.629 W/kg

**SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.406 W/kg**

Maximum value of SAR (measured) = 0.555 W/kg



**Fig.6 WCDMA 850 CH4132**

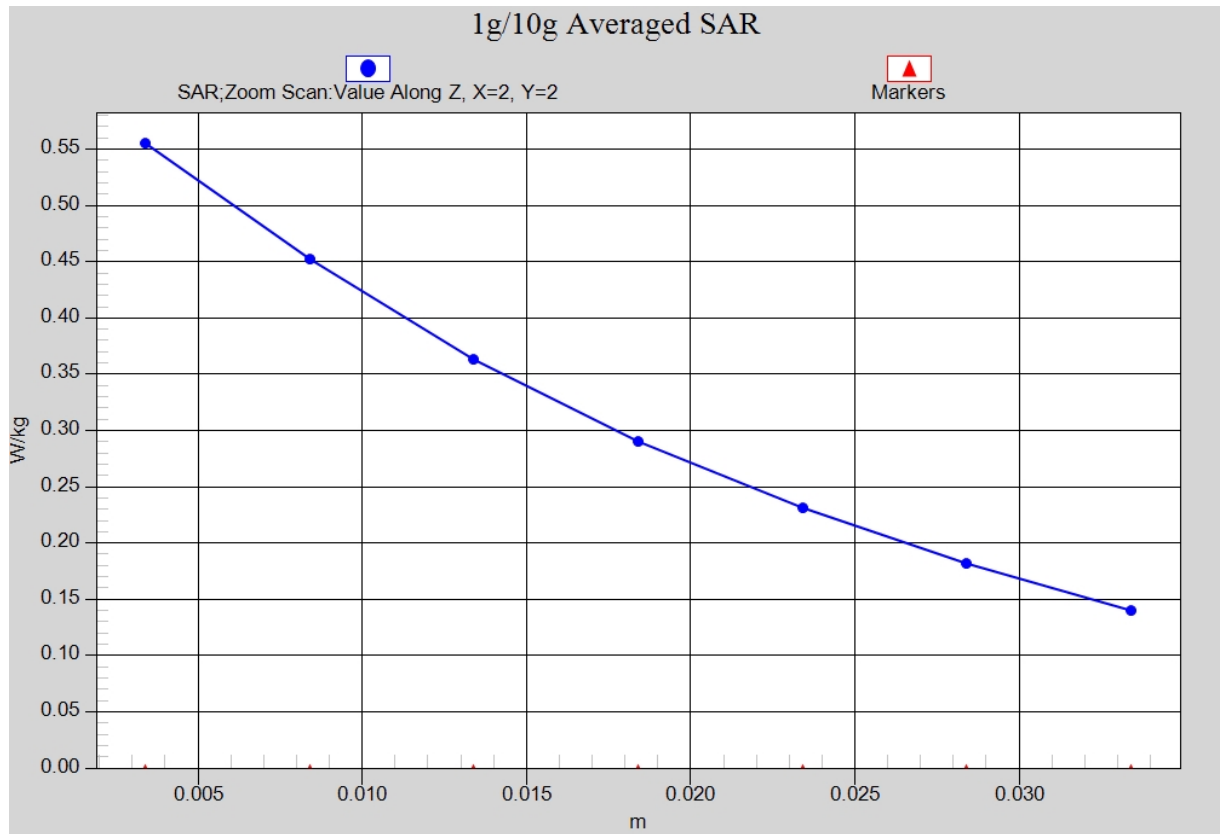


Fig. 6-1 Z-Scan at power reference point (WCDMA850 CH4132)

### WCDMA 1900 Right Cheek Middle

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.379$  mho/m;  $\epsilon_r = 41.606$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.57, 7.57, 7.57)

**Cheek Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.769 W/kg

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.372 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.974 W/kg

**SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.383 W/kg**

Maximum value of SAR (measured) = 0.739 W/kg

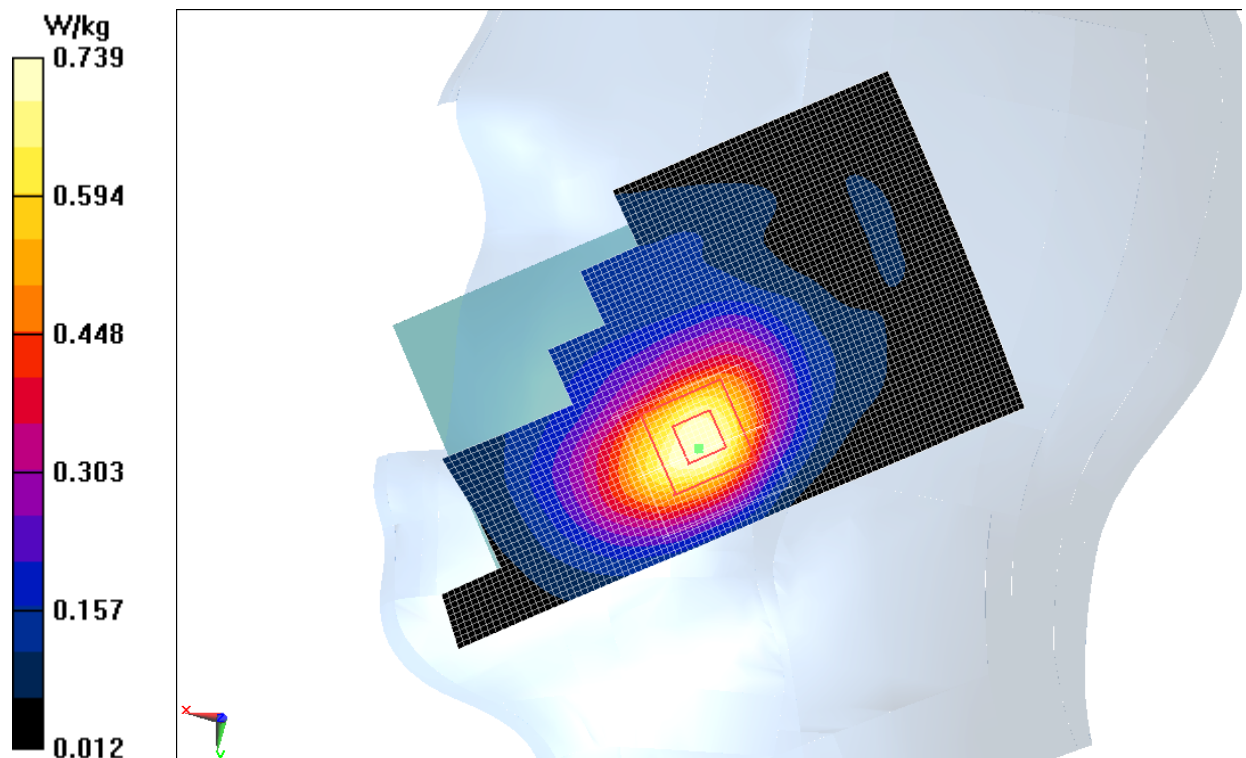
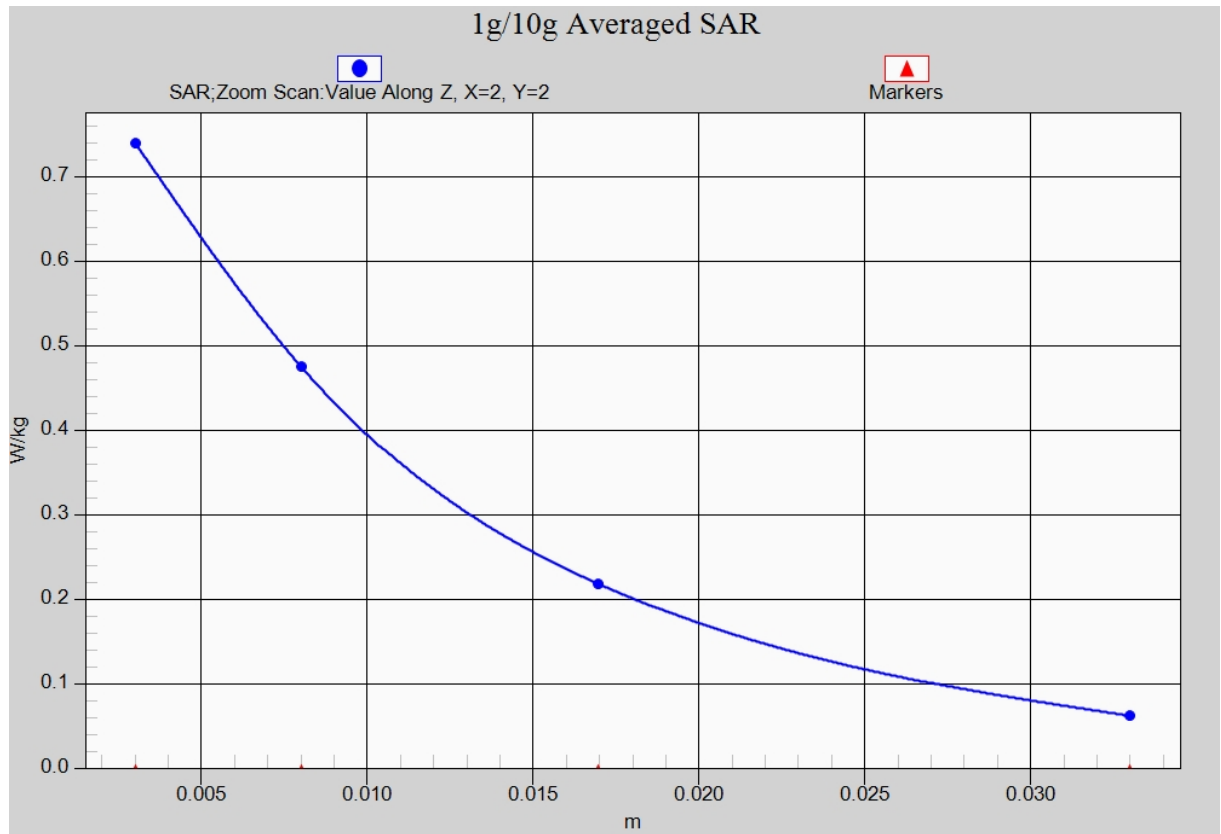


Fig.7 WCDMA1900 CH9400



**Fig. 7-1 Z-Scan at power reference point (WCDMA1900 CH9400)**

### WCDMA 1900 Body Rear Middle

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.787$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: WCDMA 1900 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.03, 7.03, 7.03)

**Rear Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.26 W/kg

**Rear Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.696 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.595 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg

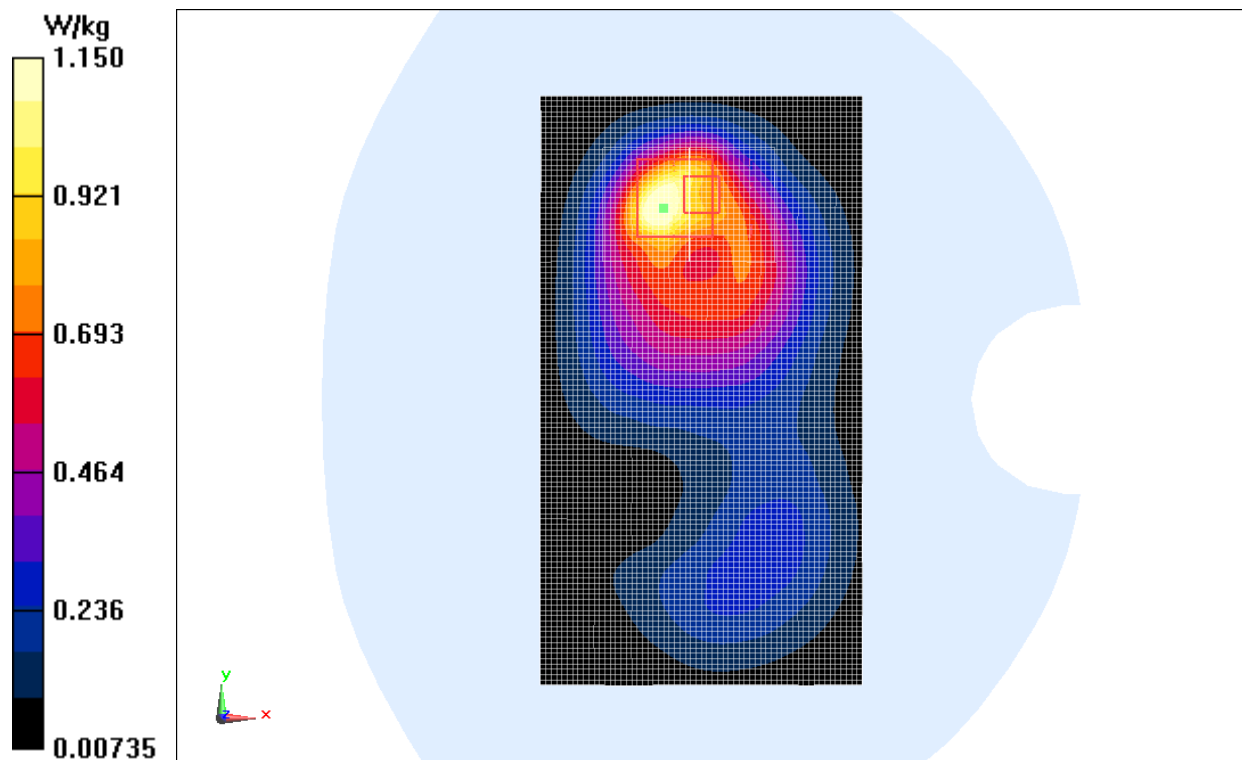


Fig.8 WCDMA1900 CH9400



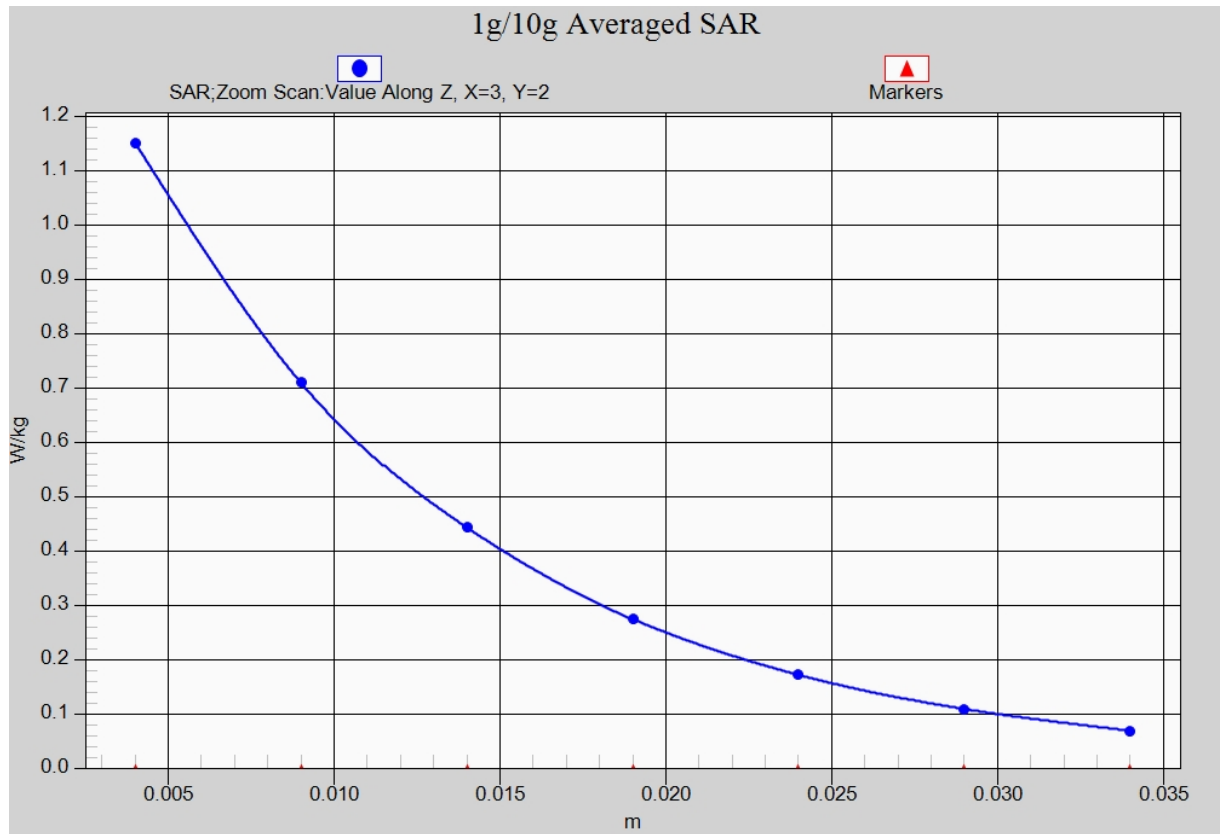


Fig. 8-1 Z-Scan at power reference point (WCDMA1900 CH9400)

**LTE Band2 Right Cheek Middle with QPSK\_20M\_1RB\_Low**

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Head 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.379$  mho/m;  $\epsilon_r = 41.606$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: LTE Band2 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.57, 7.57, 7.57)

**Cheek Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.623 W/kg

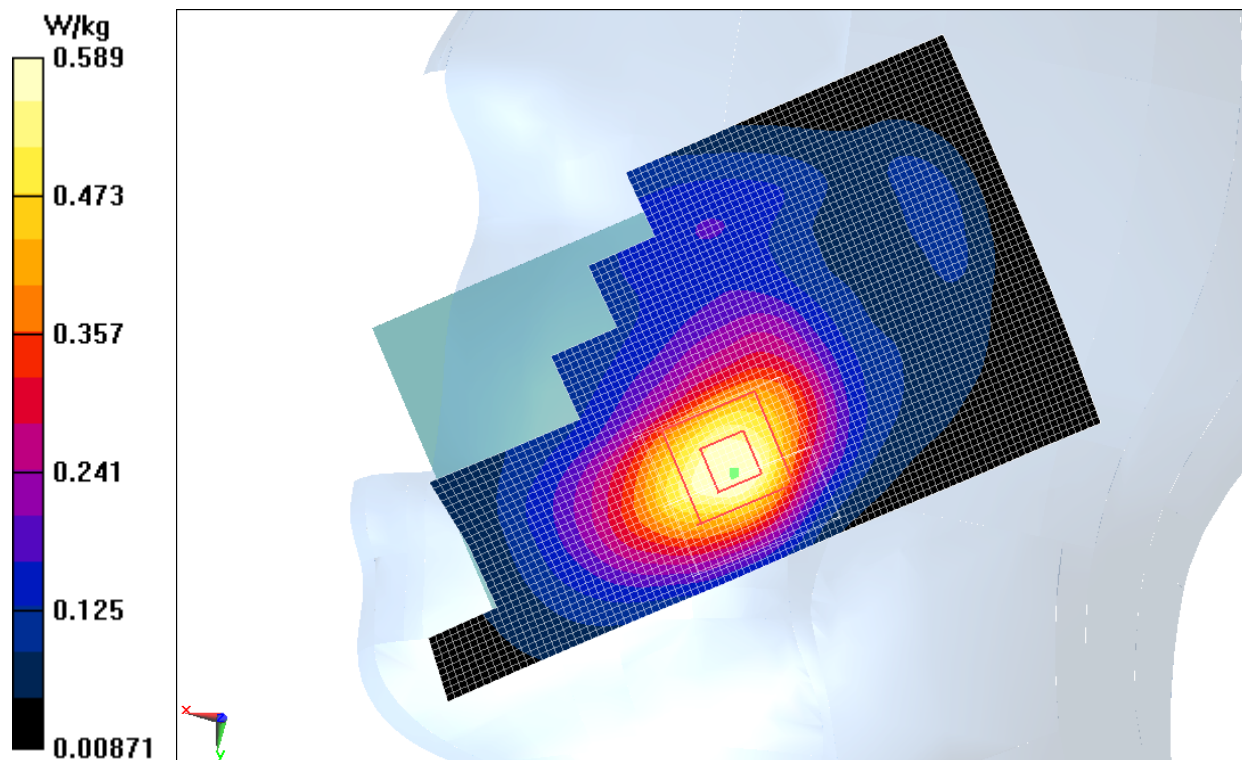
**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.709 V/m; Power Drift = 0.11 dB

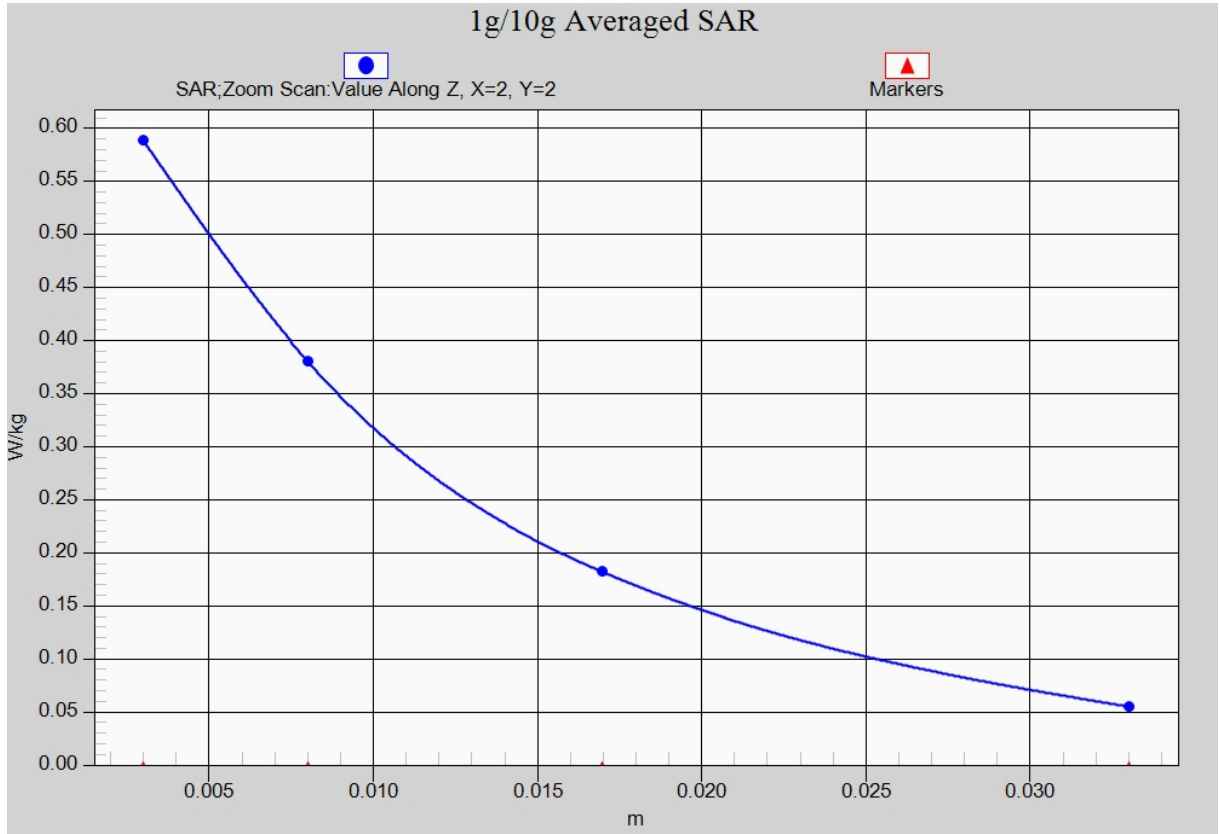
Peak SAR (extrapolated) = 0.783 W/kg

**SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.319 W/kg**

Maximum value of SAR (measured) = 0.589 W/kg



**Fig.9 LTE Band2 CH18900**



**Fig. 9-1 Z-Scan at power reference point (LTE Band2 CH18900)**

**LTE Band2 Body Rear Middle with QPSK\_20M\_1RB\_Low**

Date: 2014-5-30

Electronics: DAE4 Sn771

Medium: Body 1900 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 52.787$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.1°C      Liquid Temperature: 21.6°C

Communication System: LTE Band4 Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.03, 7.03, 7.03)

**Rear Middle/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

**Rear Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.292 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 1 W/kg; SAR(10 g) = 0.549 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg

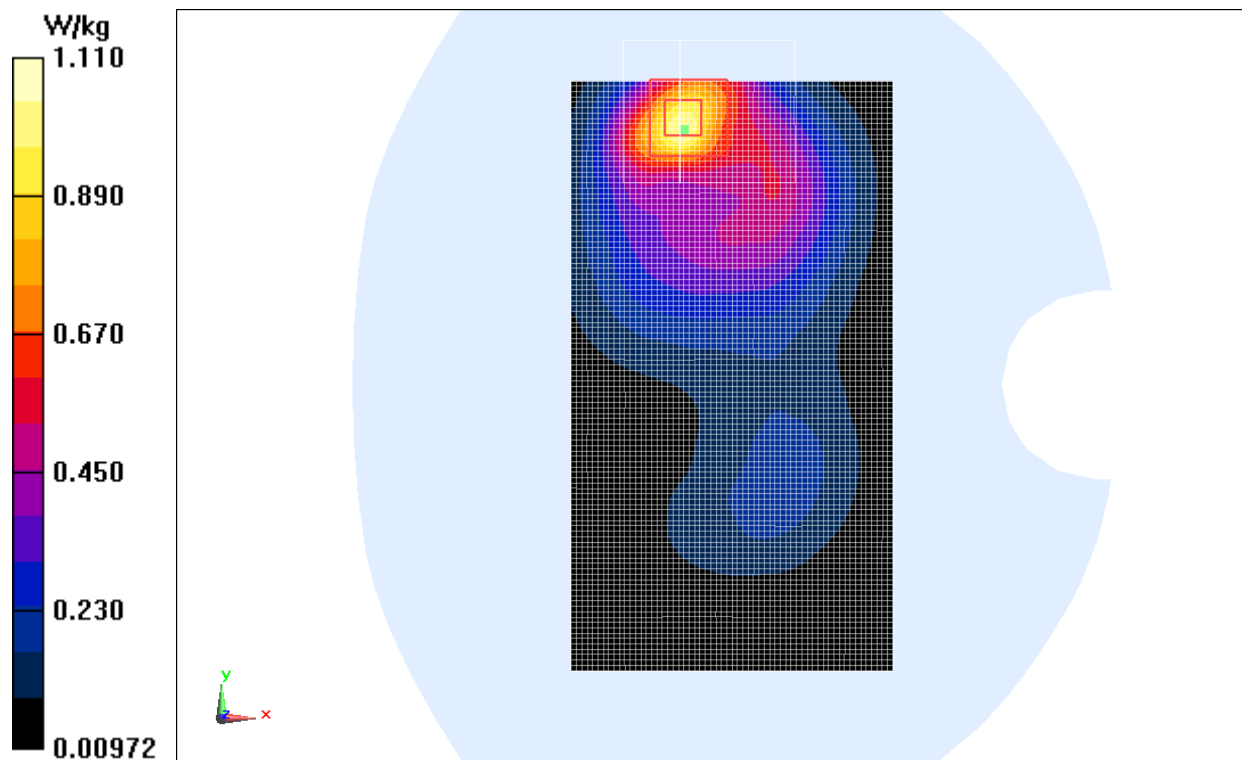
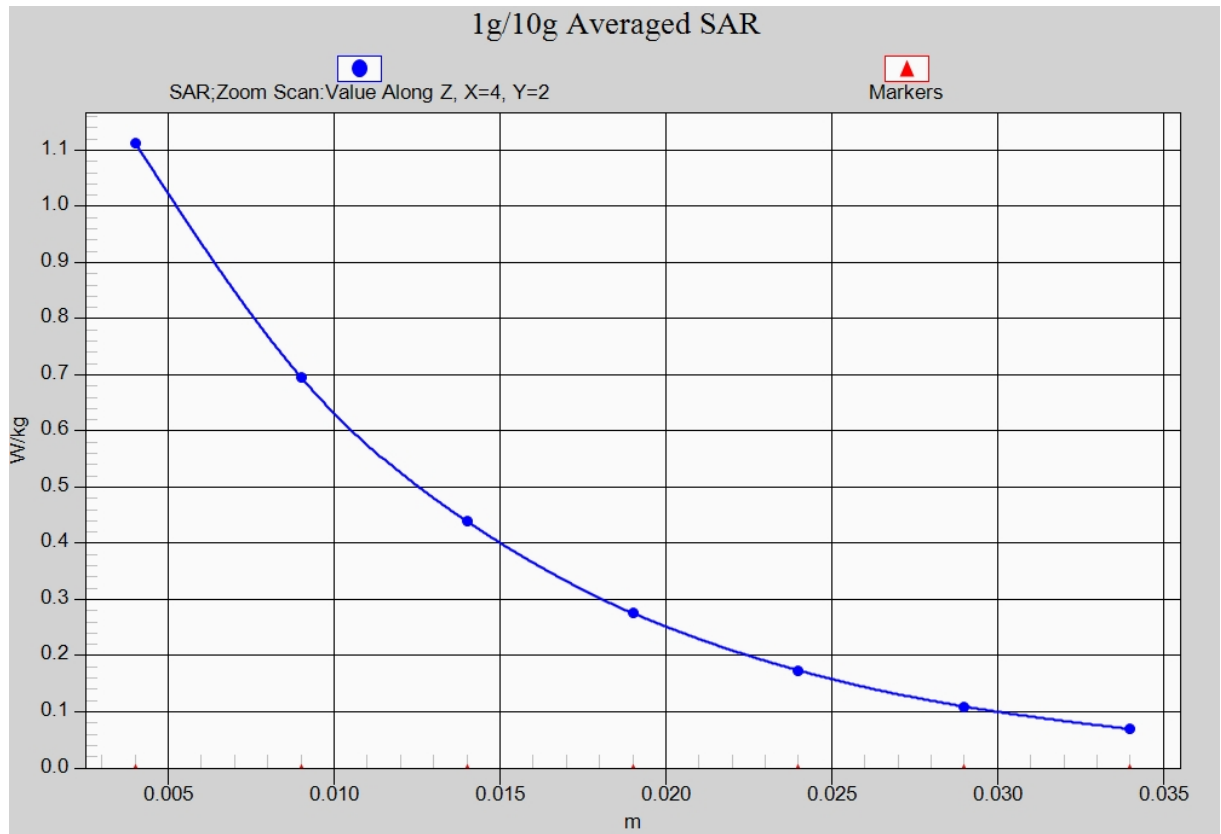


Fig.10 LTE Band2 CH18900



**Fig. 10-1 Z-Scan at power reference point (LTE Band2 CH18900)**

**LTE Band4 Right Cheek Low with QPSK\_20M\_1RB\_High**

Date: 2014-6-3

Electronics: DAE4 Sn771

Medium: Head 1750 MHz

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.324$  mho/m;  $\epsilon_r = 39.848$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: LTE Band4 Frequency: 1720 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.85, 7.85, 7.85)

**Cheek Low/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.709 W/kg

**Cheek Low/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.387 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.830 W/kg

**SAR(1 g) = 0.584 W/kg; SAR(10 g) = 0.387 W/kg**

Maximum value of SAR (measured) = 0.675 W/kg

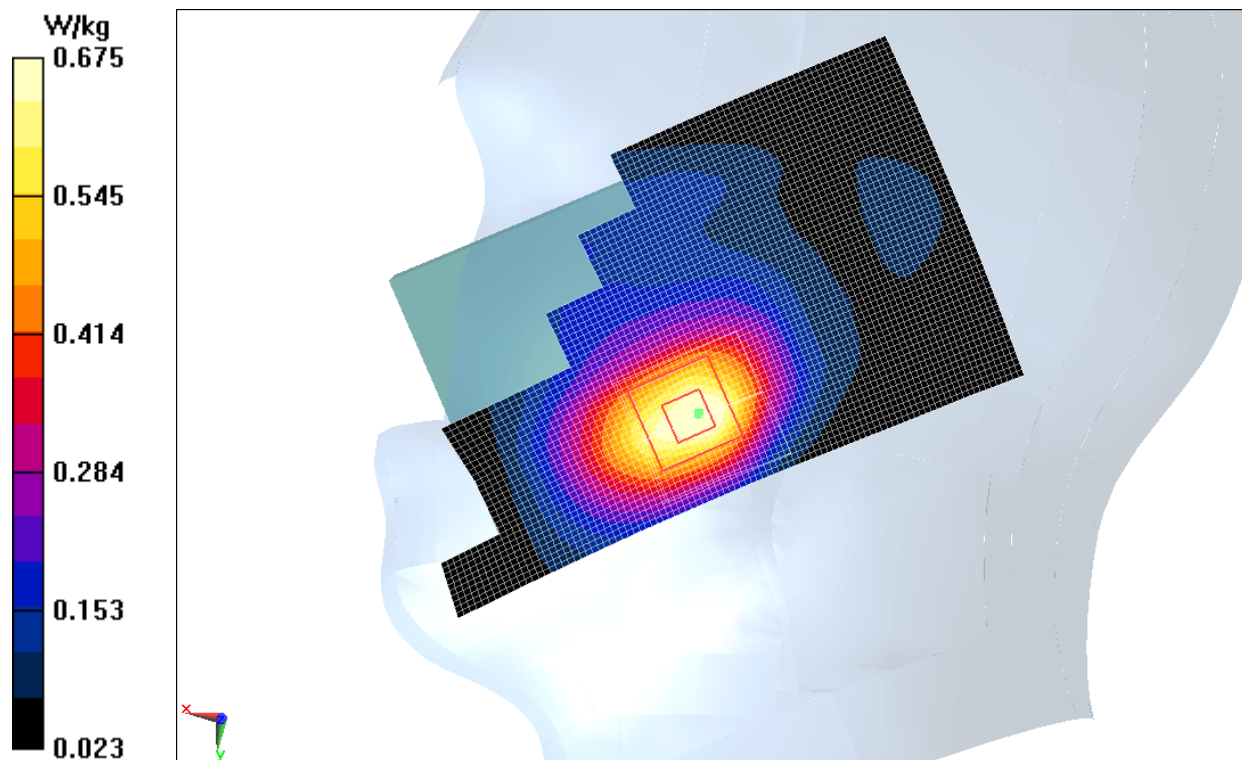
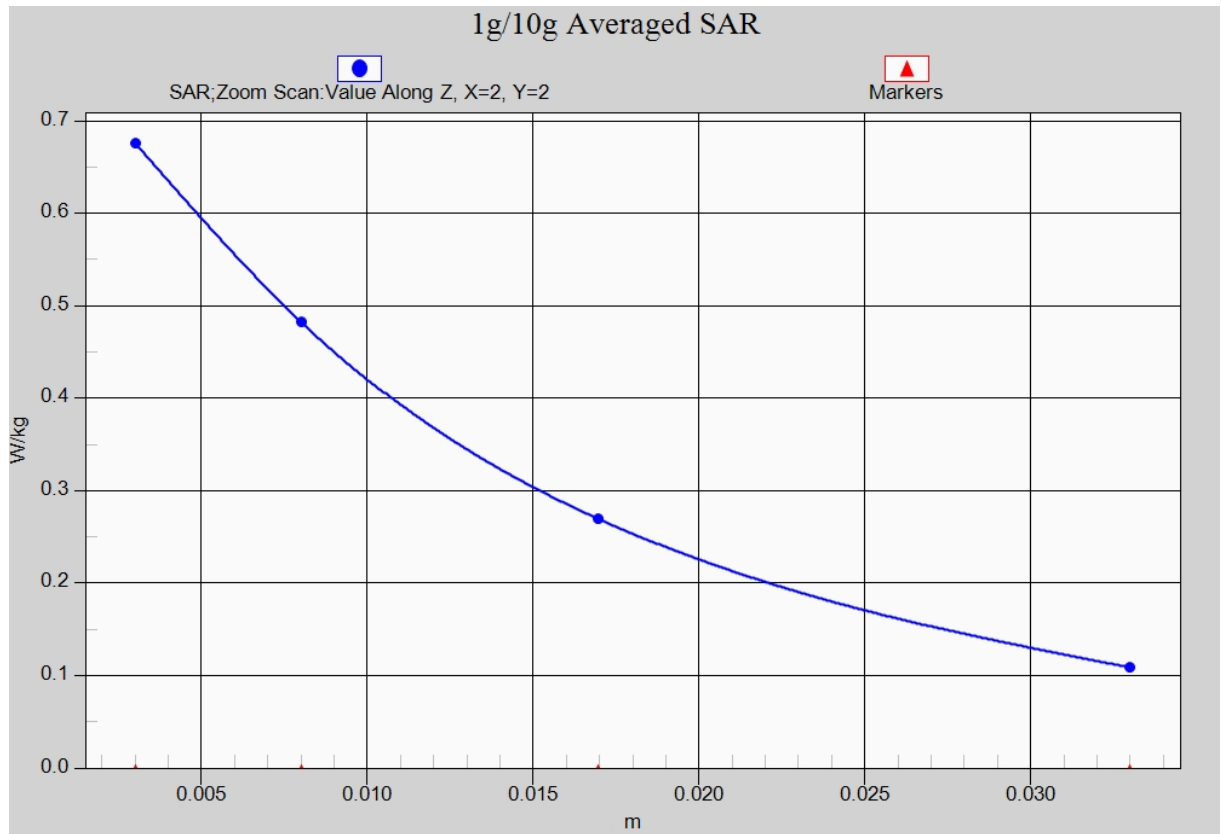


Fig.11 LTE Band4 CH20050



**Fig. 11-1 Z-Scan at power reference point (LTE Band4 CH20050)**



**LTE Band4 Body Rear High with QPSK\_20M\_1RB\_High**

Date: 2014-6-3

Electronics: DAE4 Sn771

Medium: Body 1750 MHz

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.476$  mho/m;  $\epsilon_r = 53.474$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: LTE Band4 Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(7.56, 7.56, 7.56)

**Rear High/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

**Rear High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.988 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.505 W/kg**

Maximum value of SAR (measured) = 0.954 W/kg

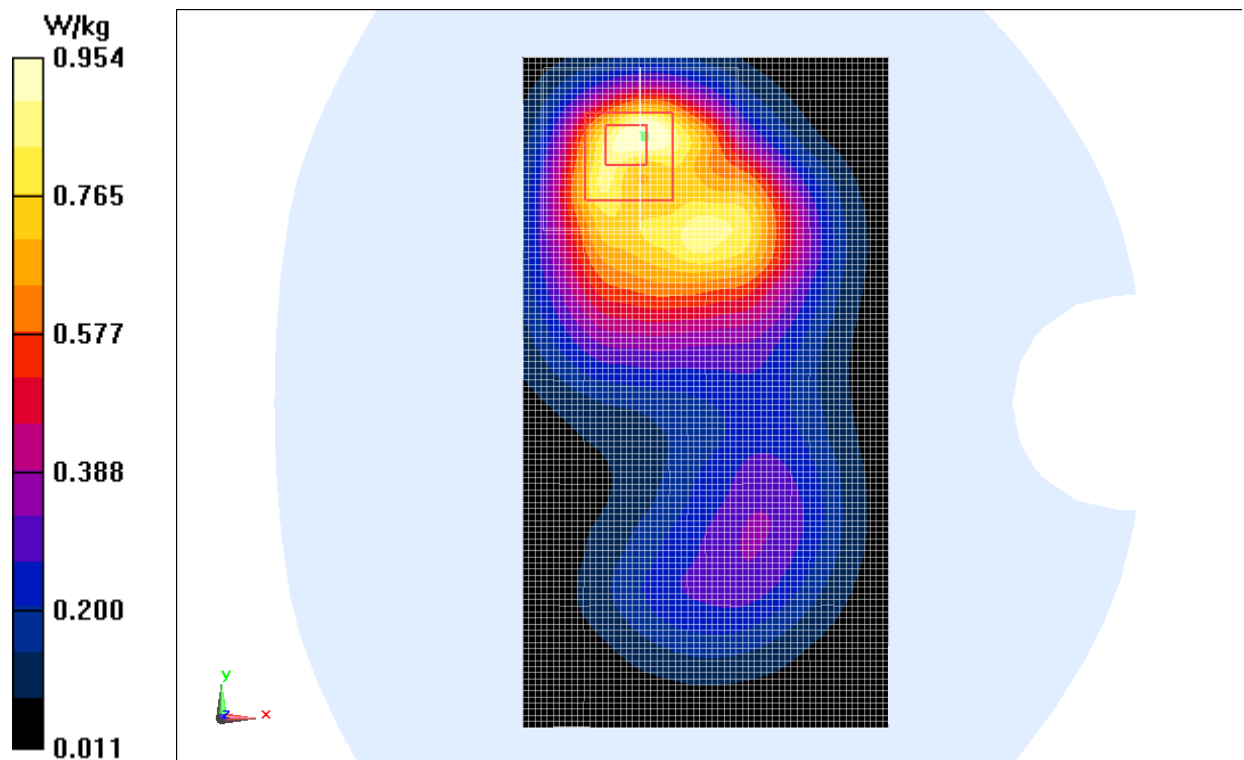
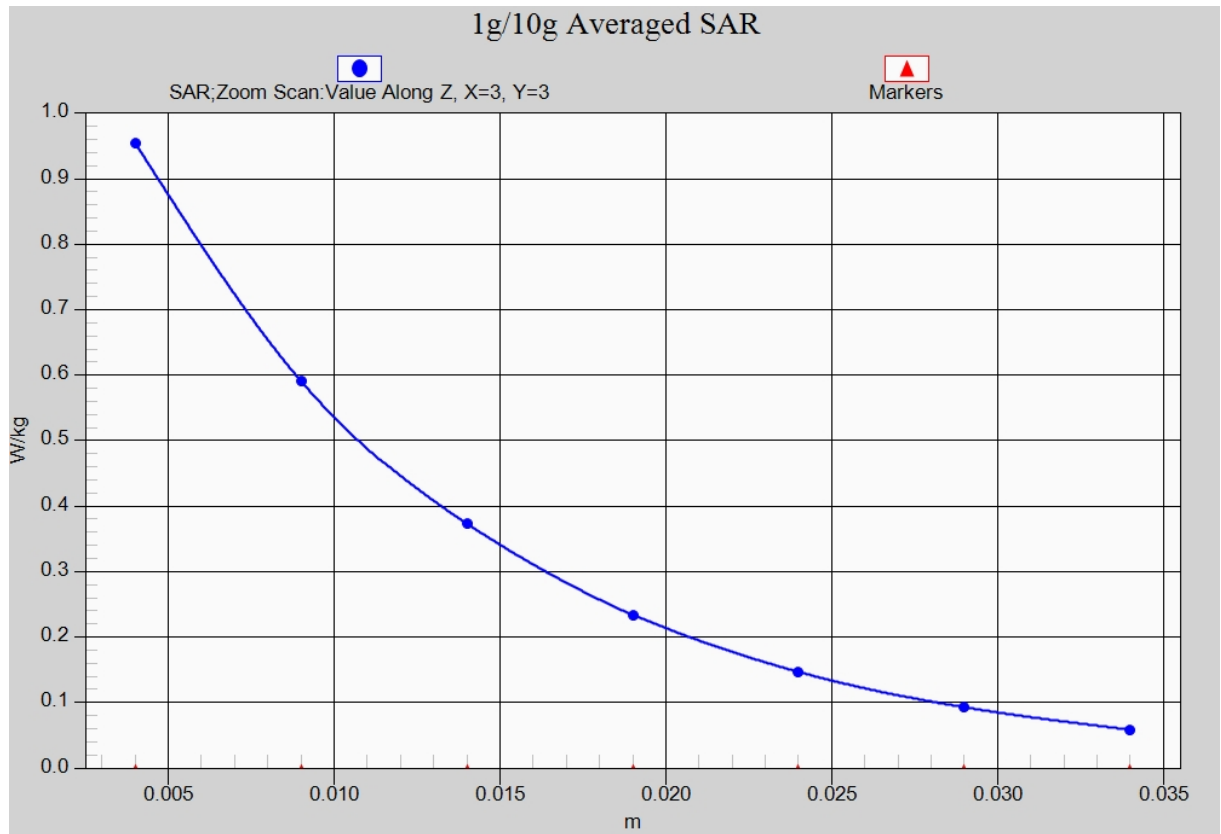


Fig.12 LTE Band4 CH20300



**Fig. 12-1 Z-Scan at power reference point (LTE Band4 CH20300)**

**LTE Band7 Right Cheek Middle with QPSK\_20M\_1RB\_High**

Date: 2014-6-3

Electronics: DAE4 Sn771

Medium: Head 2600 MHz

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.891$  mho/m;  $\epsilon_r = 38.84$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: LTE Band7 Frequency: 2535 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.68, 6.68, 6.68)

**Cheek Middle/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.359 W/kg

**Cheek Middle/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.617 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.471 W/kg

**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.154 W/kg**

Maximum value of SAR (measured) = 0.339 W/kg

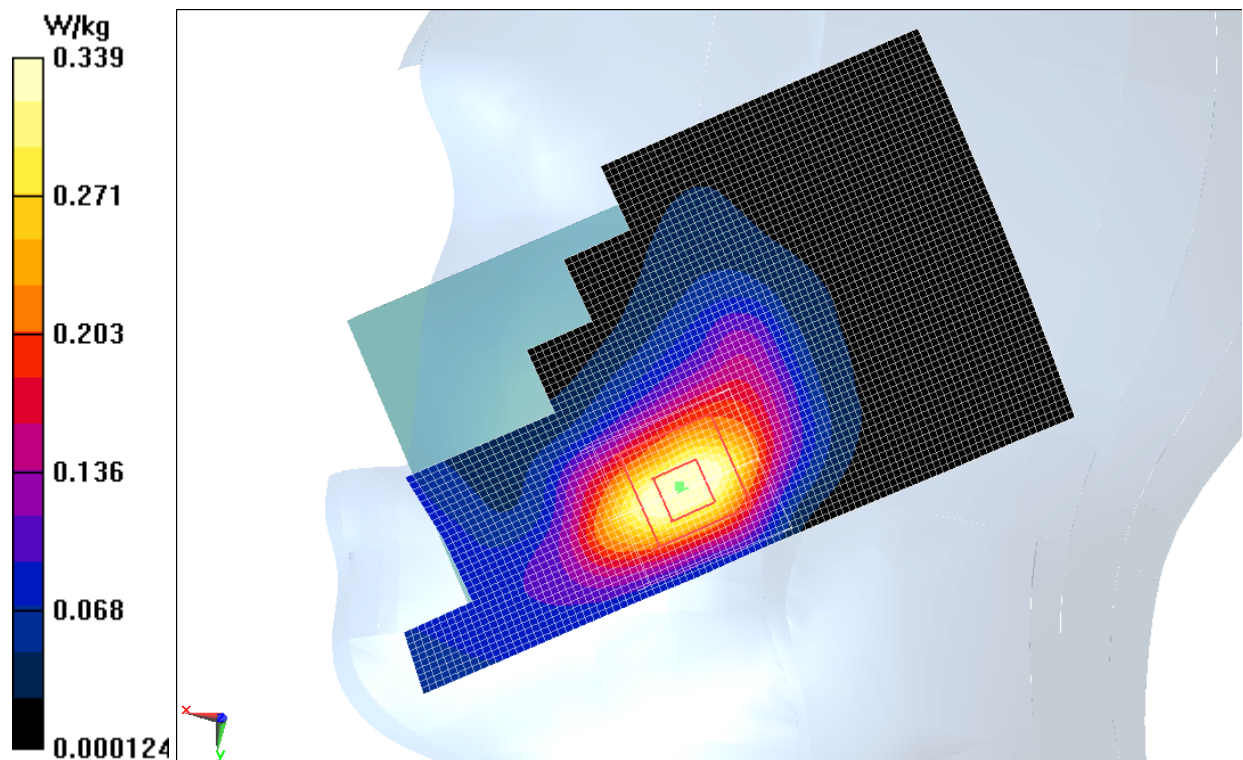
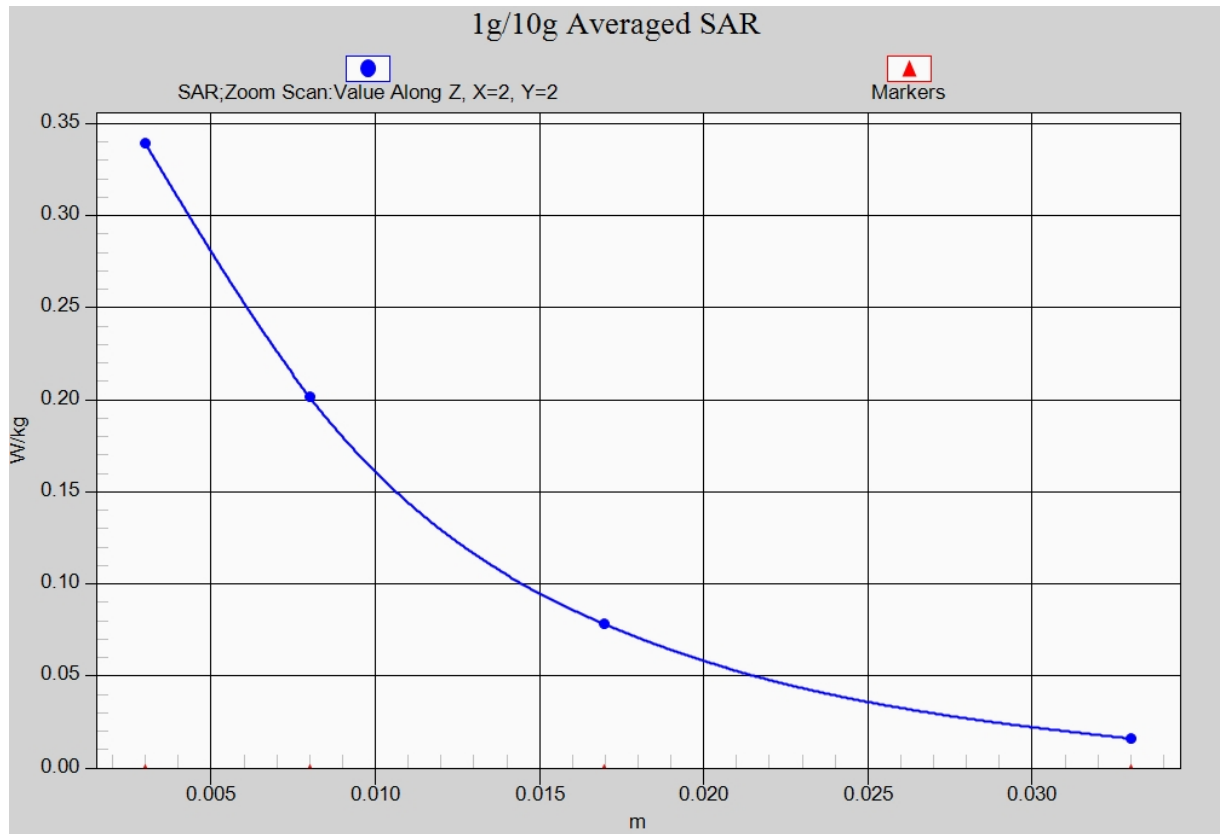


Fig.13 LTE Band7 CH21100



**Fig. 13-1 Z-Scan at power reference point (LTE Band7 CH21100)**

**LTE Band7 Body Rear High with QPSK\_20M\_1RB\_High**

Date: 2014-6-3

Electronics: DAE4 Sn771

Medium: Body 2600 MHz

Medium parameters used:  $f = 2560$  MHz;  $\sigma = 2.098$  mho/m;  $\epsilon_r = 51.825$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: LTE Band7 Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.59, 6.59, 6.59)

**Rear High/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.89 W/kg

**Rear High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.031 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.52 W/kg

**SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.660 W/kg**

Maximum value of SAR (measured) = 1.50 W/kg

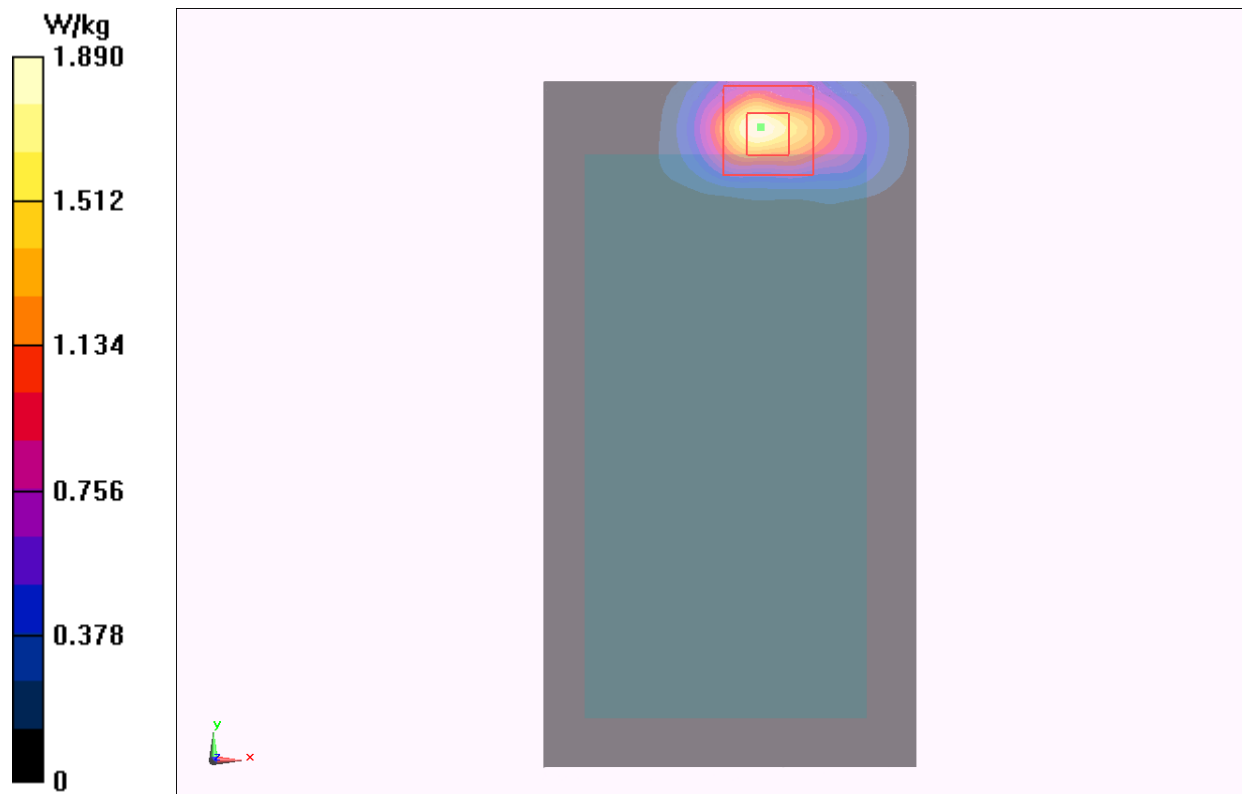
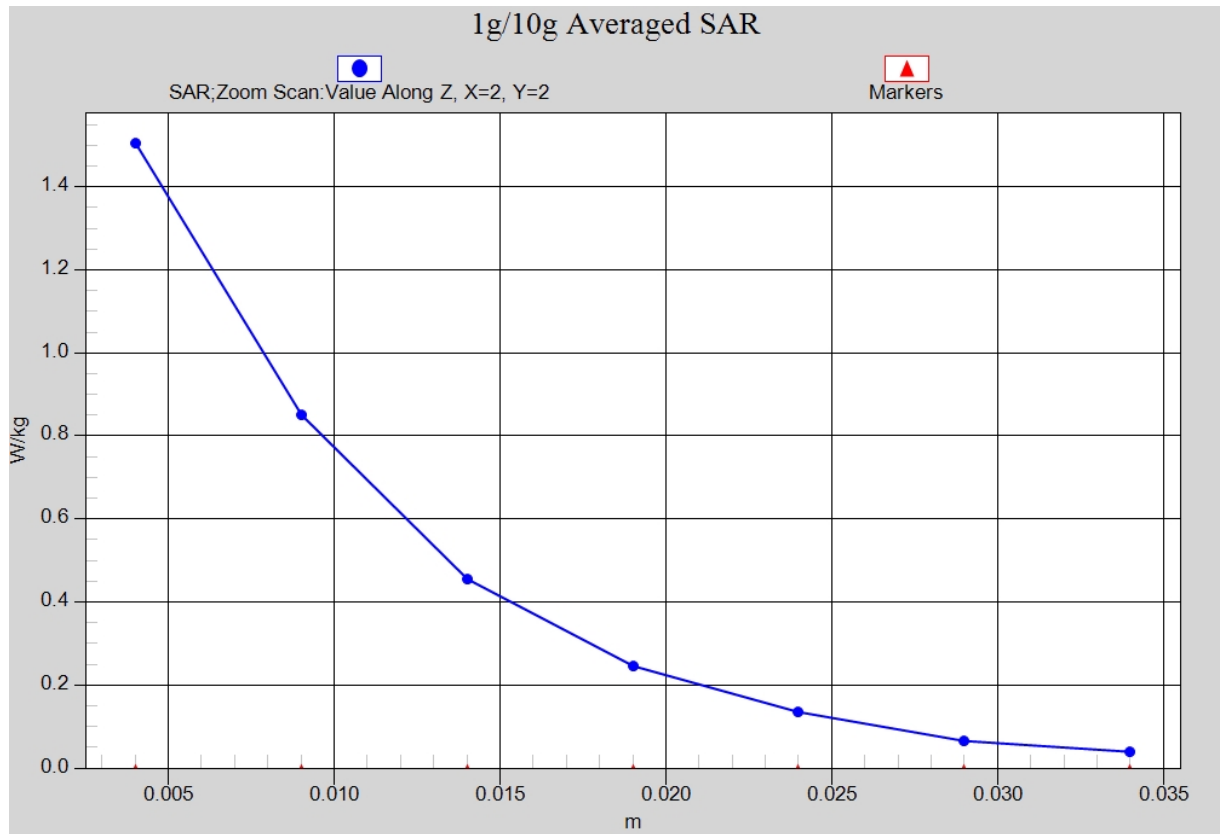


Fig.14 LTE Band7 CH21350



**Fig. 14-1 Z-Scan at power reference point (LTE Band7 CH21350)**

**LTE Band17 Right Cheek High with QPSK\_10M\_1RB\_Low**

Date: 2014-6-4

Electronics: DAE4 Sn771

Medium: Head 750 MHz

Medium parameters used (interpolated):  $f = 711$  MHz;  $\sigma = 0.836$  mho/m;  $\epsilon_r = 43.025$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.2°C      Liquid Temperature: 21.7°C

Communication System: LTE Band17 Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(9.32, 9.32, 9.32)

**Cheek High/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.212 W/kg

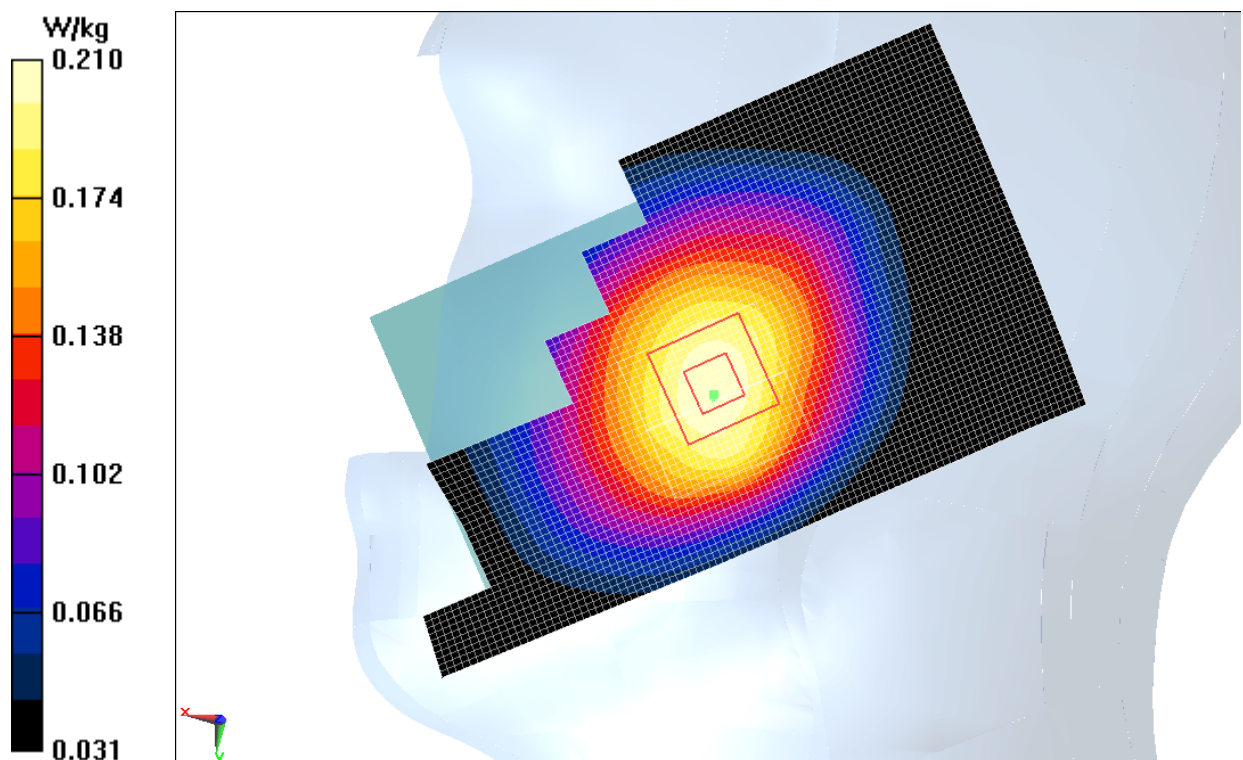
**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.053 V/m; Power Drift = 0.09 dB

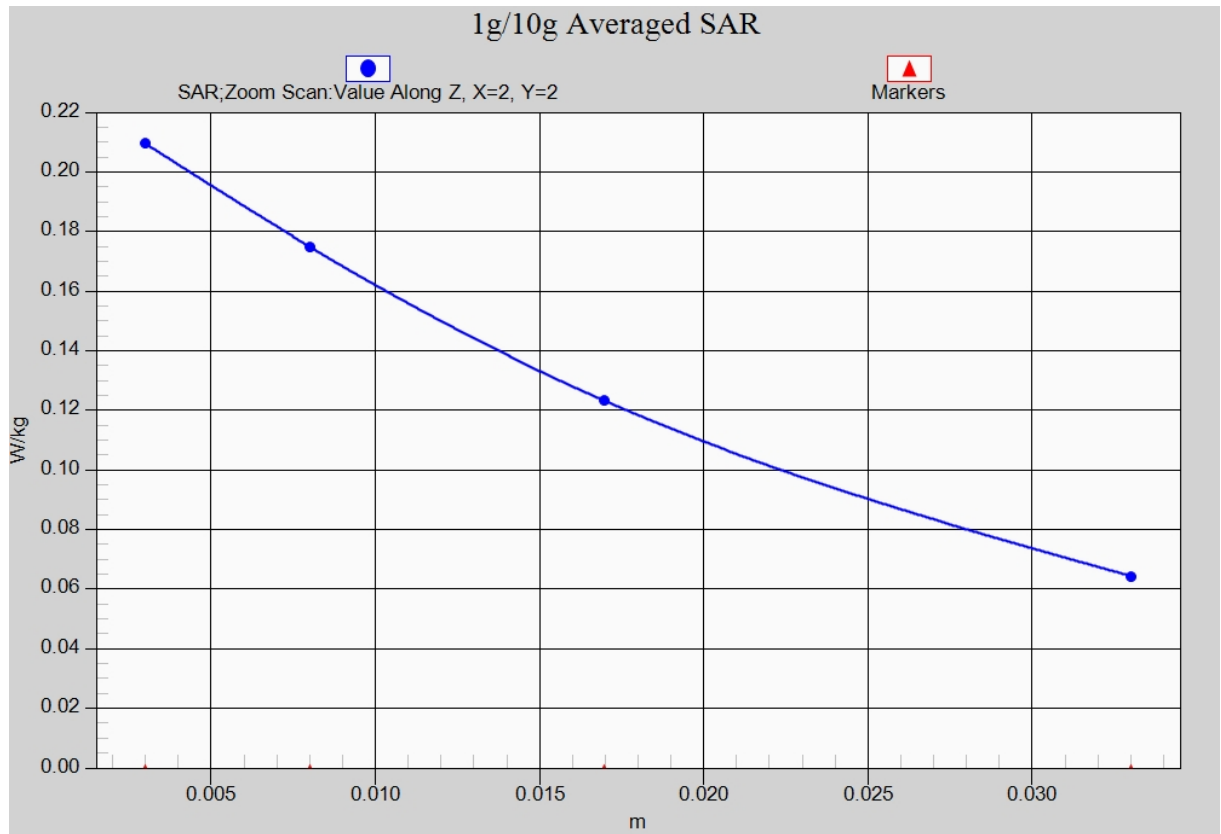
Peak SAR (extrapolated) = 0.230 W/kg

**SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.153 W/kg**

Maximum value of SAR (measured) = 0.210 W/kg



**Fig.15 LTE Band17 CH23800**



**Fig. 15-1 Z-Scan at power reference point (LTE Band17 CH23800)**



**LTE Band17 Body Rear High with QPSK\_10M\_1RB\_Low**

Date: 2014-6-4

Electronics: DAE4 Sn771

Medium: Body 750 MHz

Medium parameters used (interpolated):  $f = 711$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 57.08$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.2°C      Liquid Temperature: 21.7°C

Communication System: LTE Band17 Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(8.96, 8.96, 8.96)

**Rear High/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.430 W/kg

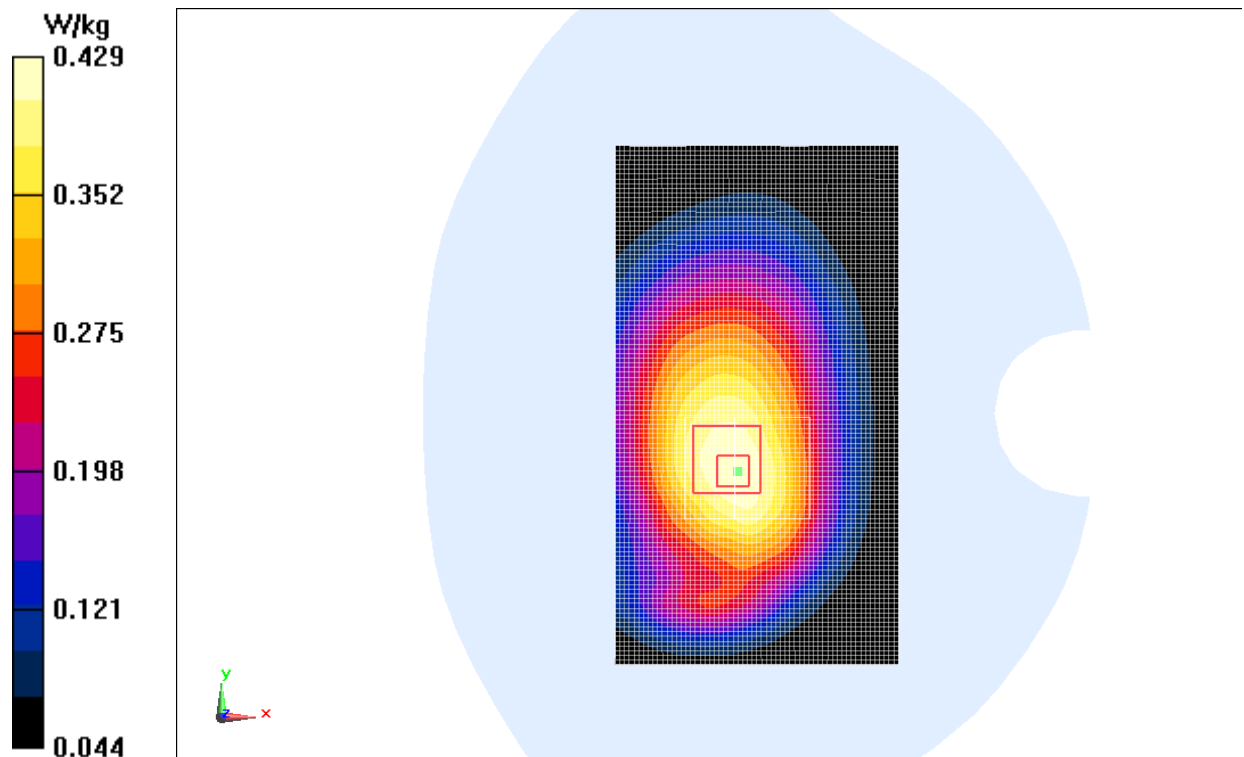
**Rear High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.834 V/m; Power Drift = -0.04 dB

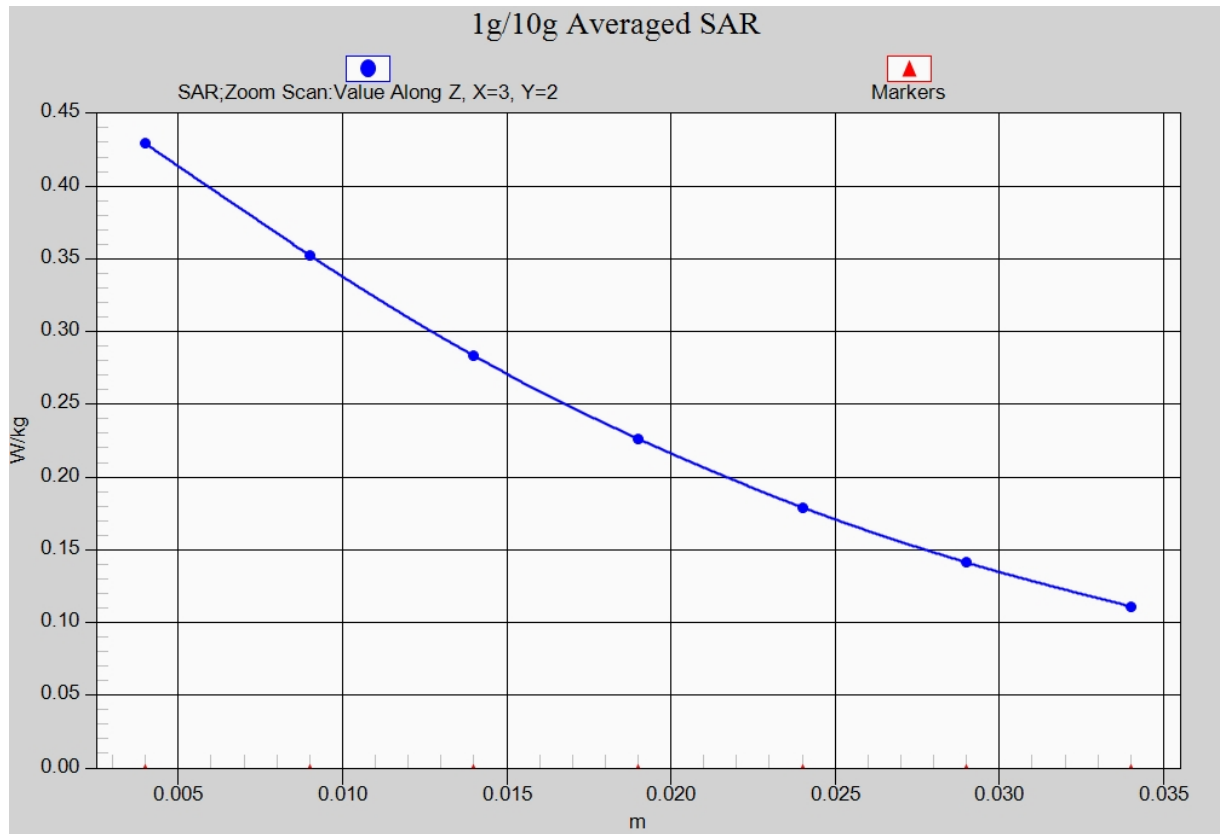
Peak SAR (extrapolated) = 0.495 W/kg

**SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.322 W/kg**

Maximum value of SAR (measured) = 0.429 W/kg



**Fig.16 LTE Band17 CH23800**



**Fig. 16-1 Z-Scan at power reference point (LTE Band17 CH23800)**

**Wifi 802.11b Left Cheek Channel 11**

Date: 2014-6-5

Electronics: DAE4 Sn771

Medium: Head 2450 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.843$  mho/m;  $\epsilon_r = 39.561$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: WLAN 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.78, 6.78, 6.78)

**Cheek High/Area Scan (61x101x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.922 W/kg

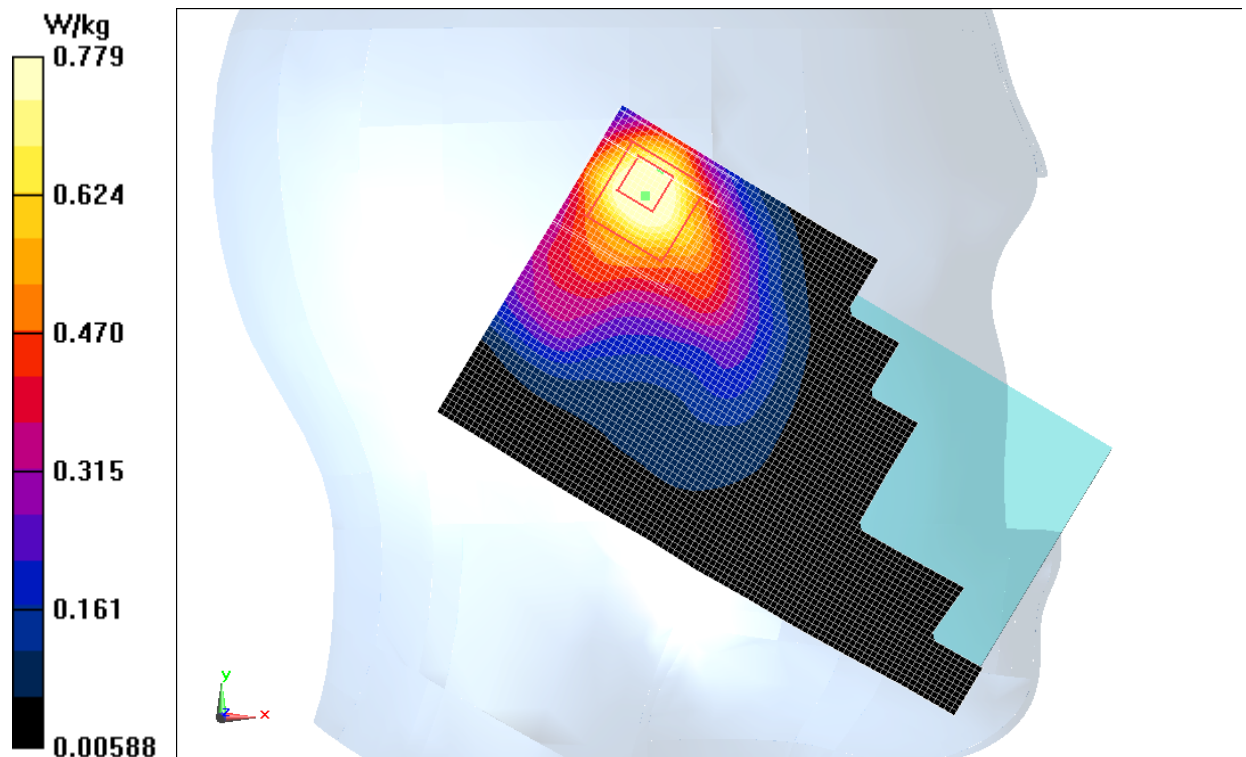
**Cheek High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.485 V/m; Power Drift = 0.02 dB

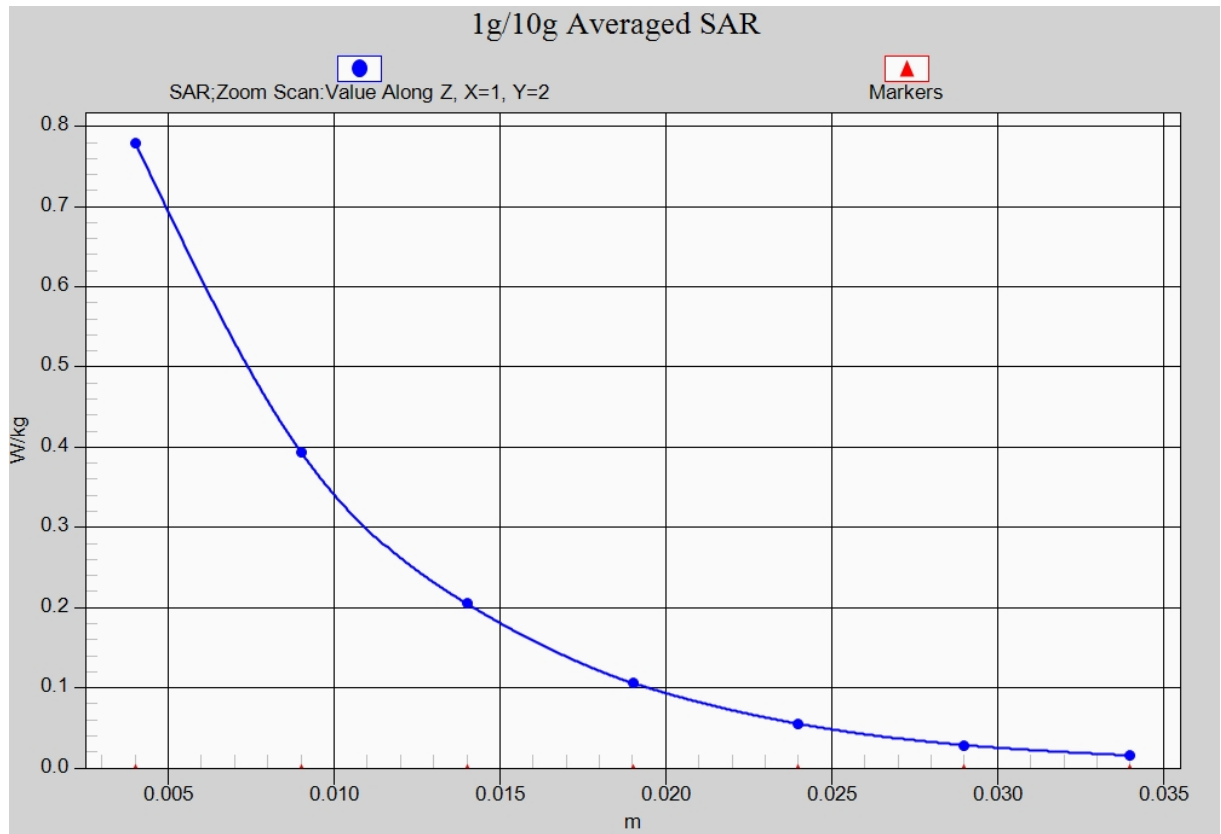
Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.390 W/kg**

Maximum value of SAR (measured) = 0.779 W/kg



**Fig.24 2450 MHz CH11**



**Fig. 17-1 Z-Scan at power reference point (2450 MHz CH11)**

**Wifi 802.11b Body Rear Channel 11**

Date: 2014-6-5

Electronics: DAE4 Sn771

Medium: Body 2450 MHz

Medium parameters used (interpolated):  $f = 2462$  MHz;  $\sigma = 1.952$  mho/m;  $\epsilon_r = 52.136$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Ambient Temperature: 22.3°C      Liquid Temperature: 21.8°C

Communication System: WLAN 2450 Frequency: 2462 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN3846 ConvF(6.73, 6.73, 6.73)

**Rear High/Area Scan (61x111x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.327 W/kg

**Rear High/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.641 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.607 W/kg

**SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.147 W/kg**

Maximum value of SAR (measured) = 0.320 W/kg

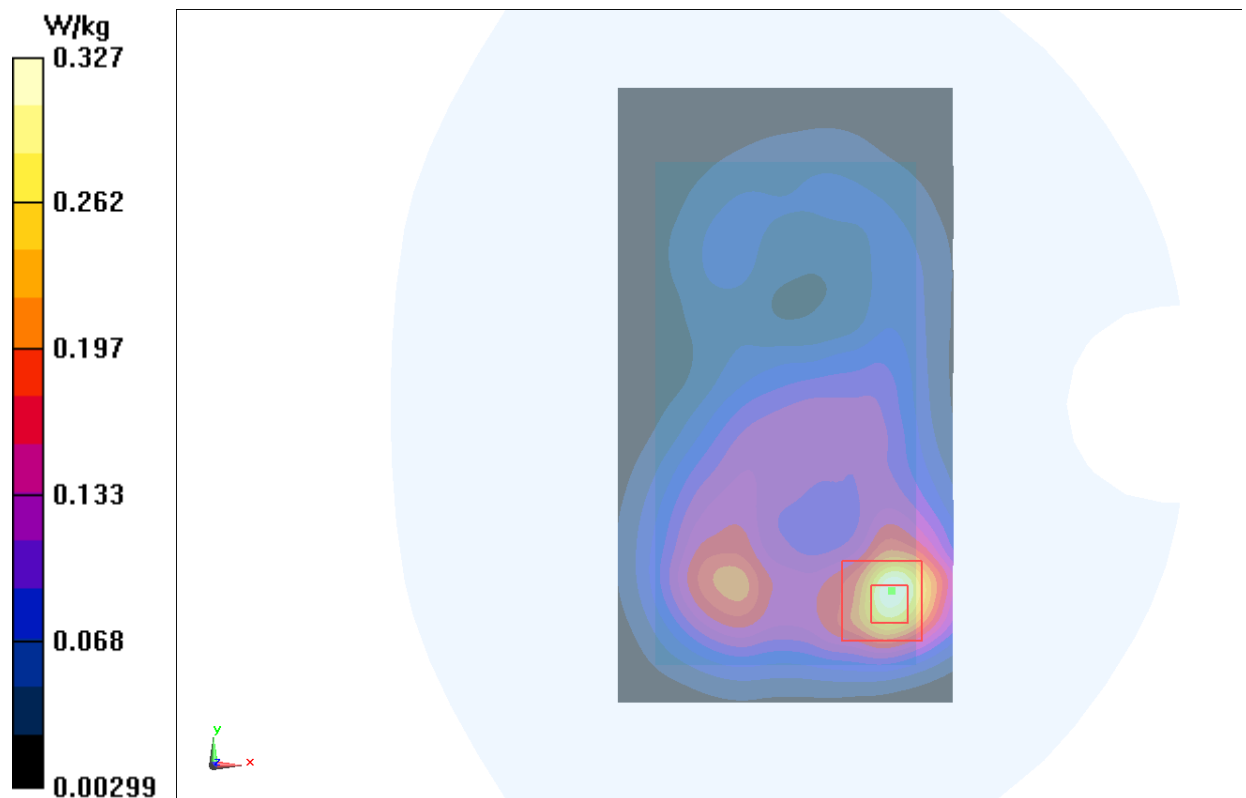


Fig.18 2450 MHz CH11

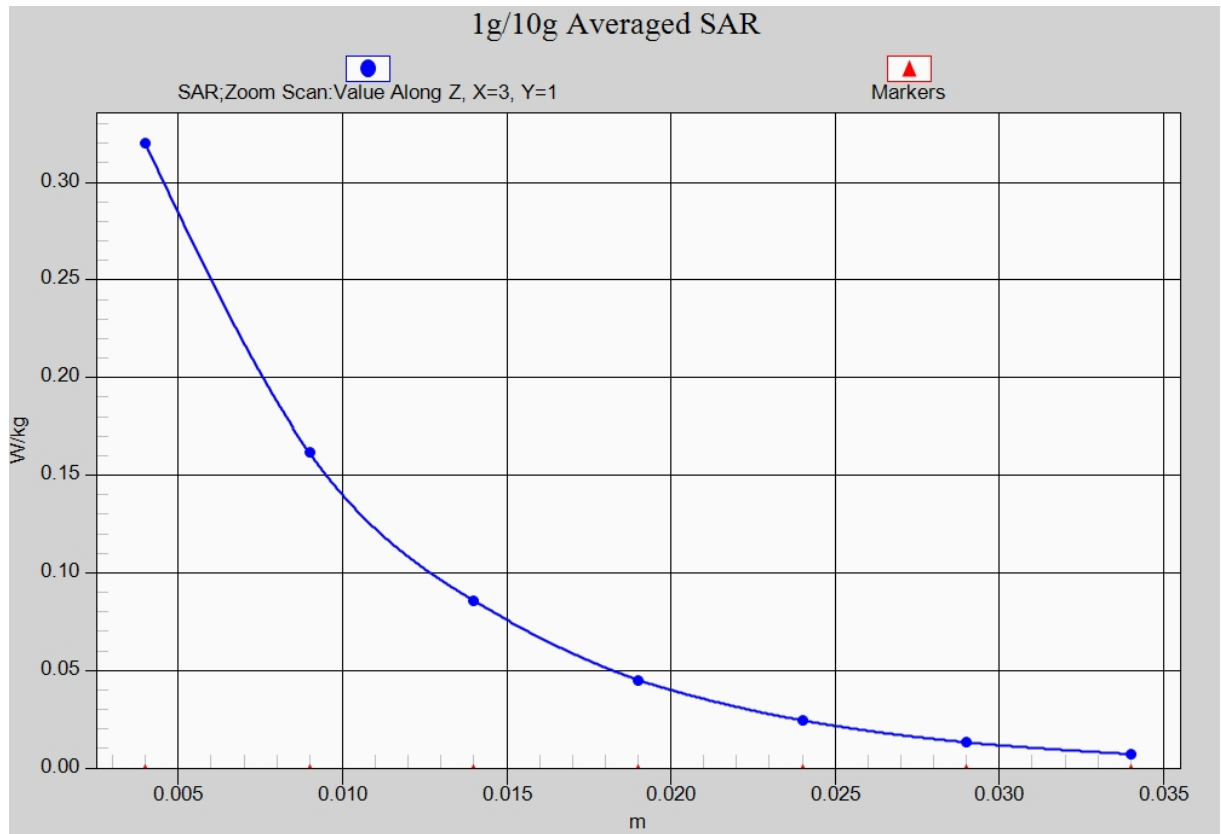


Fig. 18-1 Z-Scan at power reference point (2450 MHz CH11)