

# SAR TEST REPORT

The following samples were submitted and identified on behalf of the client as:

<b>Equipment Under Test</b>	Mobile Phone
<b>Marketing Name</b>	C2104
<b>Brand Name</b>	Sony
<b>Model No.</b>	PM-0300-BV
<b>Company Name</b>	Sony Mobile Communications AB
<b>Company Address</b>	Nya Vattentornet 22188 Lund/SWEDEN
<b>Standards</b>	OET 65 supplement C, IEEE /ANSI C95.1 , C95.3, IEEE 1528, RSS-102
<b>FCC ID</b>	PY7PM-0300
<b>IC ID</b>	4170B-PM0300
<b>Date of Receipt</b>	Oct. 31, 2012
<b>Date of Test(s)</b>	Nov. 14, 2012 ~ Jan. 13, 2013
<b>Date of Issue</b>	May 03, 2013

In the configuration tested, the EUT complied with the standards specified above.

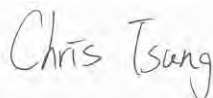
## Remarks:

This report details the results of the testing carried out on two samples, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## Signed on behalf of SGS

Sr. Engineer



Chris Tsung

Date: May 03, 2013

Asst. Manager



Kelly Tsai

Date: May 03, 2013

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## Version

Report Number	Revision	Date	Memo
EN/2013/10002	00	2013/01/17	Initial creation of test report.
EN/2013/10002	01	2013/01/29	1 <sup>st</sup> modification
EN/2013/10002	02	2013/01/30	2 <sup>nd</sup> modification
EN/2013/10002	03	2013/02/04	3 <sup>rd</sup> modification
EN/2013/10002	04	2013/04/12	4 <sup>th</sup> modification
EN/2013/10002	05	2013/04/13	5 <sup>th</sup> modification
EN/2013/10002	06	2013/04/26	6 <sup>th</sup> modification
EN/2013/10002	07	2013/05/03	7 <sup>th</sup> modification

**This test report contains a reference to the previous version test report that it replaces.**

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## 1. General Information

### 1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
No.134, Wu Kung Road, New Taipei Industrial Park	
Wuku District, New Taipei City, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/
Testing Location	1F, No.8, Alley 15, Lane 120, Sec .1, NeiHu Road NeiHu District Taipei City 114, Taiwan

### 1.2 Details of Applicant

Company Name	Sony Mobile Communications AB
Company Address	Nya Vattentornet 22188 Lund/SWEDEN

### 1.3 Description of EUT

EUT Name	Mobile Phone
Marketing Name	C2104
Brand Name	Sony
Model No.	PM-0300-BV
HW Version	A
SW Version	15.0.A.1.1
Serial No.	WWAN: 464107527 / WLAN: 463849669
IMEI Code	WWAN: 004402146159508 / WLAN: 004402146156157
FCC ID	PY7PM-0300
IC ID	4170B-PM0300
Mode of Operation	<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EDGE <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n (20M/40M) <input checked="" type="checkbox"/> Bluetooth

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Duty Cycle	GSM	1/8.3		
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
	EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
	WCDMA	1		
	WLAN 802.11 a/b/g/n(20M/40M)	1		
	Bluetooth	1		
	TX Frequency Range (MHz)	GSM850	824.2	—
GSM1900		1850.2	—	1909.8
WCDMA Band II		1852.4	—	1907.6
WCDMA Band IV		1712.4	—	1752.6
WCDMA Band V		826.4	—	846.6
WLAN 802.11 b/g/n(20M)		2412	—	2462
WLAN802.11 a 5.2G		5180	—	5240
WLAN802.11 a 5.3G		5260	—	5320
WLAN802.11 a 5.5G		5500	—	5700
WLAN802.11 a 5.8G		5745	—	5825
WLAN802.11 n (20M) 5.2G		5180	—	5240
WLAN802.11 n (20M) 5.3G		5260	—	5320
WLAN802.11 n (20M) 5.5G		5500	—	5700
WLAN802.11 n (20M) 5.8G		5745	—	5825
WLAN802.11 n (40M) 5.2G		5190	—	5230
WLAN802.11 n (40M) 5.3G		5270	—	5310
WLAN802.11 n (40M) 5.5G		5510	—	5670
WLAN802.11 n (40M) 5.8G	5755	—	5795	
Bluetooth	2402	—	2480	

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Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	WLAN 802.11 b/g/n(20M)	1	—	11
	WLAN802.11 a 5.2G	36	—	48
	WLAN802.11 a 5.3G	52	—	64
	WLAN802.11 a 5.5G	100	—	140
	WLAN802.11 a 5.8G	149	—	165
	WLAN802.11 n (20M) 5.2G	36	—	48
	WLAN802.11 n (20M) 5.3G	52	—	64
	WLAN802.11 n (20M) 5.5G	100	—	140
	WLAN802.11 n (20M) 5.8G	149	—	165
	WLAN802.11 n (40M) 5.2G	38	—	46
	WLAN802.11 n (40M) 5.3G	54	—	62
	WLAN802.11 n (40M) 5.5G	102	—	134
	WLAN802.11 n (40M) 5.8G	151	—	159
	Bluetooth	0	—	78

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Max. Reported SAR (1 g) (Unit: W/Kg)	Head	GSM 850	0.562	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 251 Channel
		GSM 1900	0.236	<input checked="" type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 810 Channel (the measure value for both positions are identical for 1-g SAR evaluation)
		WCDMA Band II	0.582	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 9400 Channel
		WCDMA Band IV	0.638	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 1513 Channel
		WCDMA Band V	0.658	<input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 4233 Channel
		WLAN802.11 b	0.787	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 6 Channel - with memory card
		WLAN802.11a 5.2G	0.213	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 36 Channel
		WLAN802.11a 5.3G	0.146	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 52 Channel
		WLAN802.11a 5.5G	0.246	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 116 Channel
		WLAN802.11n (40M) 5.8G	0.181	<input checked="" type="checkbox"/> Left <input type="checkbox"/> Right <input checked="" type="checkbox"/> Cheek <input type="checkbox"/> Tilt 151 Channel

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Max. Reported SAR (1 g) (Unit: W/Kg)	Body worn (speech mode)	GSM 850	0.506	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 190 Channel - with headset (MH410C)
		GSM 1900	0.251	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 661 Channel - with headset (MH410C)
		WCDMA Band II	0.575	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 9400 Channel - with headset (MH410C)
		WCDMA Band IV	0.450	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 1412 Channel - with headset (MH410C)
		WCDMA Band V	0.609	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back 4183 Channel - with headset (MH410C)
	Hotspot mode	GPRS 850	0.996	<input checked="" type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 251 Channel
		GPRS 1900	0.943	<input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 512 Channel
		WCDMA Band II	1.261	<input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 9262 Channel
		WCDMA Band IV	1.383	<input type="checkbox"/> Front <input type="checkbox"/> Back <input checked="" type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 1513 Channel - with memory card
		WCDMA Band V	0.792	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 4183 Channel

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Max. Reported SAR (1 g) (Unit: W/Kg)	Hotspot mode	WLAN802.11 b	0.557	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 11 Channel
		WLAN802.11a 5.2G	0.508	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Bottom <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left 36 Channel
		WLAN802.11a 5.3G	0.435	<input type="checkbox"/> Front <input type="checkbox"/> Back <input type="checkbox"/> Bottom <input checked="" type="checkbox"/> Right <input type="checkbox"/> Left 52 Channel
		WLAN802.11a 5.5G	0.692	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 124 Channel
		WLAN802.11n (20M) 5.8G	0.372	<input type="checkbox"/> Front <input checked="" type="checkbox"/> Back <input type="checkbox"/> Bottom <input type="checkbox"/> Right <input type="checkbox"/> Left 149 Channel

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Max. SAR of reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation						
Frequency band	Position	reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
		WWAN	WLAN	<1.6W/kg		
GSM 850	Left cheek	0.418	0.787	1.205	-	-
GPRS 850 (1Dn3UP)	Back	0.939	0.557	1.496	-	-
GSM 1900	Right cheek	0.236	0.24	0.476	-	-
GPRS 1900 (1Dn3UP)	Back	0.796	0.557	1.353	-	-
WCDMA Band II	Back	1.197	0.557	1.754	103.9	0.022
WCDMA Band IV	Back	0.803	0.557	1.36	-	-
WCDMA Band V	Back	0.792	0.557	1.349	-	-

Note:

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

Max. SAR of reported SAR WWAN and WLAN DTS 5.8GHz, $\Sigma$ SAR evaluation						
Frequency band	Position	reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
		WWAN	WLAN	<1.6W/kg		
GSM 850	Right cheek	0.562	0.04	0.602	-	-
GPRS 850 (1Dn3UP)	Back	0.939	0.372	1.311	-	-
GSM 1900	Left cheek	0.236	0.181	0.417	-	-
GPRS 1900 (1Dn3UP)	Back	0.796	0.372	1.168	-	-
WCDMA Band II	Back	1.197	0.372	1.569	-	-
WCDMA Band IV	Back	0.803	0.372	1.175	-	-
WCDMA Band V	Back	0.792	0.372	1.164	-	-

Note:

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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Max. SAR of reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation						
Frequency band	Position	reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
		WWAN	WLAN	<1.6W/kg		
GSM 850	Left cheek	0.418	0.248	0.666	-	-
GPRS 850 (1Dn3UP)	Back	0.939	0.692	1.631	58	0.036
GSM 1900	Left cheek	0.236	0.248	0.484	-	-
GPRS 1900 (1Dn3UP)	Back	0.796	0.692	1.488	-	-
WCDMA Band II	Back	1.197	0.692	1.889	101.7	0.026
WCDMA Band IV	Back	0.803	0.692	1.495	-	-
WCDMA Band V	Back	0.792	0.692	1.484	-	-

**Note:**

We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

Max. SAR of reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation						
Frequency band	Position	reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
		WWAN	Bluetooth	<1.6W/kg		
GPRS 1900 (1Dn3UP)	Back	0.796	0.195	0.991	-	-
WCDMA Band II	Back	1.197	0.195	1.392	-	-
WCDMA Band IV	Back	0.803	0.195	0.998	-	-
WCDMA Band V	Back	0.792	0.195	0.987	-	-

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### # Scaling SAR table:

Mode	Band	Channel	Power (dBm)	Max. Rated Avg. Power + Max. Toleranc (dBm)	Scaling	Max. SAR Measured (1 g)(W/Kg)	Reported SAR (1 g)(W/Kg)
Head	GSM 850	251	33.35	33.5	3.51%	0.543	0.562
	GSM 1900	810	30.37	30.5	3.04%	0.229	0.236
	WCDMA Band II	9400	23.25	23.5	5.93%	0.549	0.582
	WCDMA Band IV	1513	23.73	24	6.41%	0.600	0.638
	WCDMA Band V	4233	23.68	24	7.65%	0.611	0.658
	WLAN802.11 b	6	17.92	18	1.86%	0.773	<b>0.787</b>
	WLAN802.11a 5.2G	36	15.98	16	0.46%	0.212	0.213
	WLAN802.11a 5.3G	52	15.96	16	0.93%	0.145	0.146
	WLAN802.11a 5.5G	116	15.97	16	0.69%	0.244	0.246
	WLAN802.11n (40M) 5.8G	151	15.97	16	0.69%	0.180	0.181

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Mode	Band	Channel	Power (dBm)	Max. Rated Avg. Power + Max. Tolerance (%)	Scaling	Max. SAR Measured (1 g)(W/Kg)	Reported SAR (1 g)(W/Kg)	
Body	Body worn (speech mode)	GSM 850	190	33.07	33.5	10.41%	0.458	0.506
		GSM 1900	661	30.35	30.5	3.51%	0.242	0.251
		WCDMA Band II	9400	23.25	23.5	5.93%	0.543	0.575
		WCDMA Band IV	1412	23.68	24	7.65%	0.418	0.450
		WCDMA Band V	4183	23.94	24	1.39%	0.601	0.609
	Hotspot mode	GPRS 850 1Dn3UP	251	30.4	30.5	2.33%	0.973	0.996
		GPRS 1900 1Dn3UP	512	27.2	27.5	7.15%	0.880	0.943
		WCDMA Band II	9400	23.25	23.5	5.93%	1.190	1.261
		WCDMA Band IV	1513	23.73	24	6.41%	1.300	<b>1.383</b>
		WCDMA Band V	4183	23.94	24	1.39%	0.781	0.792
		WLAN802.11 b	11	17.69	18	7.40%	0.519	0.557
		WLAN802.11a 5.2G	36	15.98	16	0.46%	0.506	0.508
		WLAN802.11a 5.3G	52	15.96	16	0.93%	0.431	0.435
		WLAN802.11a 5.5G	124	15.91	16	2.09%	0.678	0.692
		WLAN802.11n (20M) 5.8G	149	15.93	16	1.62%	0.366	0.372

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### #. GSM/GPRS/EDGE conducted power table:

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM 850 (GMSK)	824.2	128	33.5	33.05	24.02
	836.6	190	33.5	33.07	24.04
	848.8	251	33.5	33.35	24.32
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30.5	30.5	27.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	33.50	30.20	30.50	27.30
	836.6	190	33.40	30.20	30.50	27.30
	848.8	251	33.40	30.00	30.40	27.50
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	24.47	24.18	26.24	24.29
	836.6	190	24.37	24.18	26.24	24.29
	848.8	251	24.37	23.98	26.14	24.49
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	27.3	27.1	26.9
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 5)	824.2	128	27.50	27.20	27.10	26.90
	836.6	190	27.40	27.20	27.00	26.80
	848.8	251	27.50	27.10	27.10	26.80
Source-based time average power						
EDGE 850 (MCS 5)	824.2	128	18.47	21.18	22.84	23.89
	836.6	190	18.37	21.18	22.74	23.79
	848.8	251	18.47	21.08	22.84	23.79
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30.5	30.5	27.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 4)	824.2	128	32.80	30.10	30.50	27.10
	836.6	190	33.00	30.10	30.50	27.00
	848.8	251	33.00	30.00	30.40	27.30
Source-based time average power						
EDGE 850 (MCS 4)	824.2	128	23.77	24.08	26.24	24.09
	836.6	190	23.97	24.08	26.24	23.99
	848.8	251	23.97	23.98	26.14	24.29
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	27.3	27.1	26.9
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 9)	824.2	128	27.40	27.30	27.10	26.90
	836.6	190	27.40	27.30	27.10	26.90
	848.8	251	27.50	27.30	27.10	26.90
Source-based time average power						
EDGE 850 (MCS 9)	824.2	128	18.37	21.28	22.84	23.89
	836.6	190	18.37	21.28	22.84	23.89
	848.8	251	18.47	21.28	22.84	23.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg.(dBm)	Avg.(dBm)
GSM 1900 (GMSK)	1850.2	512	30.5	30.23	21.20
	1880	661	30.5	30.35	21.32
	1909.8	810	30.5	30.37	21.34
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	27.5	24.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	30.00	27.20	27.20	24.10
	1880	661	30.40	27.20	27.20	24.10
	1909.8	810	30.40	27.20	27.20	24.00
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	20.97	21.18	22.94	21.09
	1880	661	21.37	21.18	22.94	21.09
	1909.8	810	21.37	21.18	22.94	20.99
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26.5	26.3	26.1	25.9
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 5)	1850.2	512	26.50	26.20	26.10	25.70
	1880	661	26.50	26.20	25.90	25.70
	1909.8	810	26.40	26.00	25.80	25.50
Source-based time average power						
EDGE 1900 (MCS 5)	1850.2	512	17.47	20.18	21.84	22.69
	1880	661	17.47	20.18	21.64	22.69
	1909.8	810	17.37	19.98	21.54	22.49
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	27.5	24.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 4)	1850.2	512	29.80	26.80	26.80	23.80
	1880	661	30.00	27.00	26.90	23.90
	1909.8	810	30.00	27.10	27.00	24.00
Source-based time average power						
EDGE 1900 (MCS 4)	1850.2	512	20.77	20.78	22.54	20.79
	1880	661	20.97	20.98	22.64	20.89
	1909.8	810	20.97	21.08	22.74	20.99
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26.5	26.3	26.1	25.9
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 9)	1850.2	512	26.10	25.90	25.60	25.40
	1880	661	26.10	25.90	25.60	25.40
	1909.8	810	26.20	26.00	25.60	25.30
Source-based time average power						
EDGE 1900 (MCS 9)	1850.2	512	17.07	19.88	21.34	22.39
	1880	661	17.07	19.88	21.34	22.39
	1909.8	810	17.17	19.98	21.34	22.29
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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**#. WCDMA Band II / Band IV / Band V / HSDPA / HSUPA conducted power table:**

Band	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Rel99 AV(dBm)	HSDPA mode AV(dBm)				HSUPA mode AV(dBm)				
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA Band II Rel 6	9262	23.5	23.46	23.63	23.34	23.15	23.22	23.38	21.43	22.44	21.56	23.27
	9400	23.5	23.25	23.14	23.11	22.69	22.7	23.23	21.3	22.25	21.35	23.09
	9538	23.5	23.16	23.02	23.01	22.49	22.61	23.10	21.14	22.18	21.18	23.01
WCDMA Band IV Rel 6	1312	24	23.53	23.24	23.41	22.76	22.83	23.45	21.5	22.51	21.63	23.34
	1412	24	23.68	23.78	23.54	23.33	23.34	23.66	21.73	22.68	21.78	23.52
	1513	24	23.73	23.57	23.58	23.04	23.16	23.67	21.71	22.75	21.75	23.58
WCDMA Band V Rel 6	4132	24	23.70	23.49	23.63	23.03	23.08	23.66	21.72	22.7	21.77	23.52
	4183	24	23.94	23.80	23.83	23.32	23.36	23.87	21.95	22.93	22.01	23.7
	4233	24	23.68	23.80	23.55	23.31	23.37	23.60	21.64	22.68	21.72	23.49

**HSDPA**

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

**HSUPA**

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (Note 5) (Note 6)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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**#. WLAN802.11 a/b/g/n (20M/40M) conducted power table:**

802.11b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)			
CH	Frequency (MHz)		Data Rate (Mbps)			
			1	2	5.5	11
1	2412	18.00	17.82	17.75	17.69	17.63
6	2437	18.00	17.92	17.83	17.76	17.70
11	2462	18.00	17.69	17.60	17.51	17.44

802.11g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6	9	12	18	24	36	48	54
1	2412	12.00	11.27	11.20	11.11	11.06	11.00	10.95	10.85	10.78
6	2437	16.00	15.71	15.63	15.55	15.49	15.44	15.36	15.30	15.23
11	2462	15.00	14.93	14.88	14.82	14.75	14.67	14.60	14.52	14.45

802.11n (20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6.5	13	19.5	26	39	52	58.5	65
1	2412	11.50	11.33	11.27	11.20	11.13	11.04	10.95	10.89	10.80
6	2437	16.00	15.85	15.78	15.73	15.67	15.62	15.56	15.48	15.39
11	2462	13.00	12.91	12.82	12.76	12.69	12.63	12.56	12.50	12.40

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802.11a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)								
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)								
CH	Frequency (MHz)		6	9	12	18	24	36	48	54	
36	5180	16.0	15.98	15.90	15.80	15.72	15.67	15.61	15.54	15.48	
40	5200	16.0	15.67	15.62	15.55	15.49	15.40	15.32	15.27	15.19	
44	5220	16.0	15.96	15.86	15.76	15.71	15.63	15.55	15.49	15.43	
48	5240	16.0	15.97	15.89	15.82	15.73	15.66	15.56	15.50	15.44	
52	5260	16.0	15.96	15.90	15.85	15.77	15.68	15.61	15.52	15.45	
56	5280	16.0	15.94	15.88	15.81	15.76	15.66	15.58	15.52	15.44	
60	5300	16.0	15.99	15.93	15.83	15.74	15.66	15.60	15.52	15.43	
64	5320	16.0	15.79	15.73	15.68	15.60	15.53	15.44	15.36	15.30	
100	5500	16.0	15.90	15.83	15.76	15.67	15.60	15.53	15.47	15.38	
104	5520	16.0	15.82	15.76	15.69	15.63	15.56	15.48	15.42	15.36	
108	5540	16.0	15.72	15.66	15.59	15.51	15.45	15.39	15.33	15.25	
112	5560	16.0	15.64	15.58	15.51	15.43	15.35	15.29	15.21	15.14	
116	5580	16.0	15.97	15.88	15.80	15.72	15.65	15.58	15.48	15.38	
120	5600	16.0	15.91	15.85	15.75	15.68	15.58	15.49	15.39	15.30	
124	5620	16.0	15.91	15.83	15.77	15.67	15.60	15.54	15.47	15.37	
128	5640	16.0	15.88	15.80	15.71	15.62	15.53	15.47	15.39	15.34	
132	5660	16.0	15.86	15.76	15.71	15.61	15.56	15.46	15.39	15.34	
136	5680	16.0	15.87	15.80	15.74	15.69	15.59	15.50	15.43	15.37	
140	5700	14.0	13.91	13.84	13.78	13.69	13.60	13.51	13.42	13.33	
149	5745	16.0	15.95	15.86	15.78	15.68	15.60	15.54	15.49	15.41	
153	5765	16.0	15.66	15.58	15.51	15.43	15.33	15.24	15.14	15.08	
157	5785	16.0	15.96	15.90	15.82	15.72	15.62	15.55	15.47	15.39	
161	5805	16.0	15.77	15.71	15.64	15.57	15.51	15.45	15.37	15.31	
165	5825	16.0	15.97	15.90	15.81	15.74	15.67	15.61	15.54	15.45	

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802.11n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		6.5	13	19.5	26	39	52	58.5	65
36	5180	16.0	15.97	15.87	15.81	15.74	15.65	15.59	15.53	15.45
44	5220	16.0	15.98	15.93	15.87	15.82	15.72	15.63	15.56	15.49
48	5240	16.0	15.93	15.88	15.82	15.72	15.63	15.57	15.49	15.39
52	5260	16.0	15.99	15.91	15.84	15.75	15.65	15.56	15.50	15.44
60	5300	16.0	15.88	15.79	15.74	15.66	15.57	15.51	15.45	15.39
64	5320	16.0	15.87	15.81	15.75	15.70	15.63	15.55	15.49	15.40
100	5500	16.0	15.93	15.87	15.78	15.69	15.61	15.52	15.44	15.39
116	5580	16.0	15.98	15.93	15.87	15.78	15.71	15.66	15.61	15.51
140	5700	13.5	13.34	13.24	13.15	13.09	13.03	12.95	12.89	12.80
149	5745	16.0	15.93	15.83	15.78	15.72	15.66	15.58	15.52	15.47
157	5785	16.0	15.91	15.85	15.76	15.70	15.64	15.56	15.47	15.38
165	5825	16.0	15.91	15.83	15.74	15.69	15.62	15.54	15.45	15.39

802.11n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		13.5	27	40.5	54	81	108	121.5	135
38	5190	12.5	12.19	12.12	12.03	11.93	11.85	11.76	11.68	11.59
46	5230	16.0	15.92	15.85	15.78	15.70	15.63	15.55	15.50	15.41
54	5270	16.0	15.86	15.77	15.70	15.62	15.57	15.49	15.43	15.37
62	5310	13.0	12.57	12.48	12.40	12.32	12.24	12.19	12.12	12.05
102	5510	12.5	12.23	12.15	12.09	12.04	11.99	11.91	11.83	11.78
118	5590	16.0	15.79	15.74	15.67	15.58	15.50	15.42	15.36	15.31
134	5670	16.0	15.94	15.87	15.82	15.76	15.70	15.60	15.53	15.48
151	5755	16.0	15.97	15.90	15.84	15.75	15.66	15.56	15.47	15.40
159	5795	16.0	15.96	15.91	15.83	15.78	15.71	15.62	15.57	15.51

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### #. Bluetooth conducted power table:

Frequency (MHz)	AV(dBm)		
	GFSK	$\pi$ 4DQPSK	8DPSK
2402	8.67	9.30	9.75
2441	8.42	9.03	9.44
2480	8.28	8.89	9.23

Frequency (MHz)	BT4.0
	AV(dBm)
2402	-0.89
2442	-1.08
2480	-1.71

### #. WLAN + BT Antenna Gain

Antenna Designation	PIFA Antenna
	2.4GHz Gain: 0.02dBi
	5.2GHz Gain: 0.26dBi
	5.3GHz Gain: 1.03dBi
	5.5GHz Gain: 3.40dBi
	5.8GHz Gain: 3.11dBi

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## 1.4 Test Environment

Ambient Temperature :  $22 \pm 2^\circ \text{C}$

Tissue Simulating Liquid:  $22 \pm 2^\circ \text{C}$

## 1.5 Operation Description

### General:

1. The EUT is controlled by using a Radio Communication Tester (R&S CMU200), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
4. Testing head SAR at lowest, middle and highest channel for all bands with Left Tilt /Left Cheek/Right Tilt/Right Cheek conditions.
5. Testing body-worn speech mode SAR by separating the EUT and the phantom **15mm** distance when performing GSM850, GSM1900, WCDMA Band II, WCDMA Band IV and WCDMA Band V. (Both front side & back side)
6. Testing hotspot mode SAR by separating the EUT and the phantom **10mm** distance.
  - #. The SAR testing for portable devices with wireless router capability is referred as test guidance of **KDB 941225 D06v01** (SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities).
  - #. The following procedures are applicable when the overall device length and width are  $\geq 9 \text{ cm} \times 5 \text{ cm}$  respectively. A test separation of 10 mm is required. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface or edge, for the data modes, wireless technologies and frequency bands supporting hotspot mode.
  - # For WLAN (15mm separation): the testing device support mobile hotspot function, the separation distance is **10mm (No need to perform SAR testing)**

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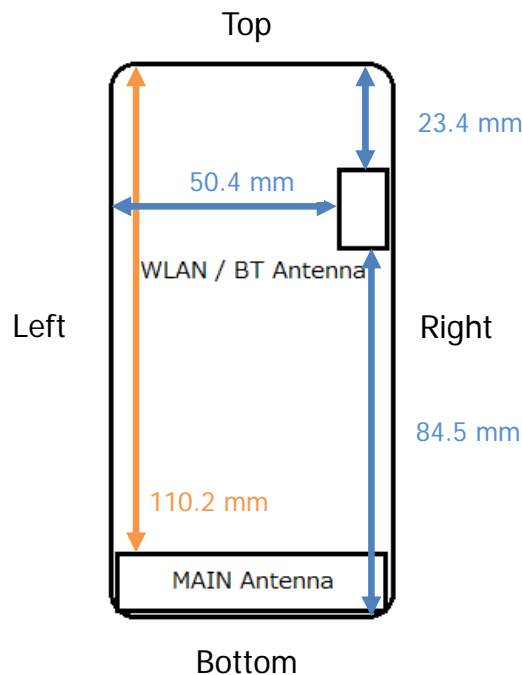
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**with Body worn accessory (15mm separation distance) due to the hotspot mode(10mm separation distance) is more conservative than Body worn accessory mode.).**

Test configurations:

- (1) Front side
- (2) Back side
- (3) Top side.(WWAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)
- (4) Bottom side. (WLAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)
- (5) Right side.
- (6) Left side. (WLAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)



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7. **For FCC:** According to **KDB447498 D01v05** – The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, SAR evaluation is not required. **(Max power of Bluetooth (in average) = 9.75dBm)**
- For IC:** SAR evaluation is required if the separation distance between the user and the radiating element of the device is less than or equal to 20 cm, except when the device operates as follows:
- from 3 kHz up to 1 GHz inclusively, and with output power (i.e. the higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 200 mW for general public use and 1000 mW for controlled use;
  - above 1 GHz and up to 2.2 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 100 mW for general public use and 500 mW for controlled use;
  - above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use;
  - above 3 GHz and up to 6 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 10 mW for general public use and 50 mW for controlled use.
8. According to **KDB248227 D01v01**-SAR is not required for 802.11 g/HT20/HT40 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.
9. Using **KDB941225 D01v02** to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.
10. For Head, The highest 1-g SAR for WLAN is 0.787 W/kg and the highest 1-g SAR for WWAN is 0.582 W/kg. The sum of 1-g for simultaneous transmitting WLAN and

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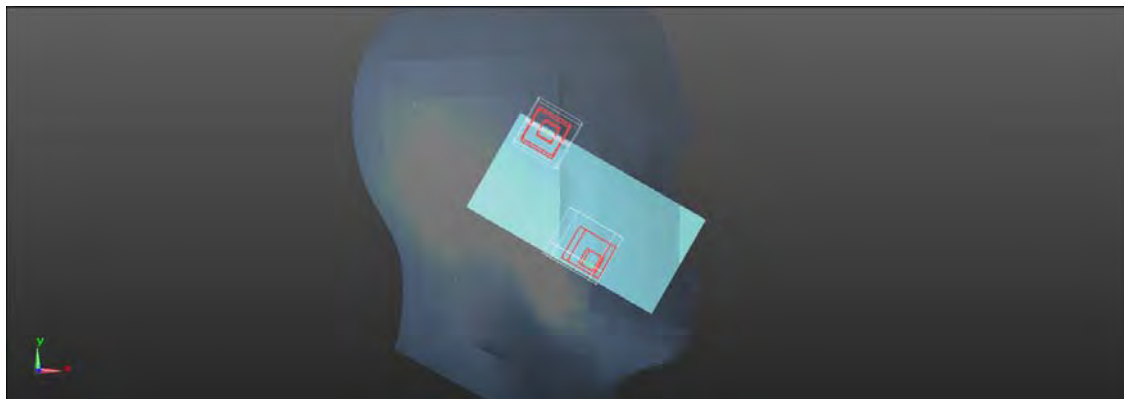
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WWAN antenna pair is  $0.787 + 0.582 = 1.369$  W/kg. WLAN / WWAN – Antenna separation is  $8.43\text{cm} > 5\text{cm}$ , sum of SAR is less than  $1.6\text{W/kg}$ , hence no simultaneous SAR is needed. Summing 1-g SAR for WLAN and WWAN **were lower than the limit  $1.6\text{W/kg}$** . According to **KDB648474 D04v01/KDB447498 D01v05** simultaneous SAR evaluation is not required.

11. For Body, The highest 1-g SAR for WLAN is  $0.692$  W/kg and the highest 1-g SAR for WWAN is  $1.197$  W/kg. The sum of 1-g for simultaneous transmitting WLAN and WWAN antenna pair is  $0.68 + 1.197 = 1.889$  W/kg, which higher than the limit  $1.6\text{W/kg}$ . By the way, the peak distance (hotspot to hotspot) for WLAN and WWAN antenna is  $10.17$  cm, we calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is  $0.026$  with less than  $0.04$ . According to **KDB447498 D01v05** simultaneous transmission SAR evaluation is not required.

Find distance of maxima	
Maxima   associated 1g averages	
Zoom Scan (C:\SAR\Case\CCI\SA77 AP NAM FCC\WCDMA B2\LE Cheek_CH9400.da52:0\RE Cheek)	
Max. 1 at (7.08, 24.90, -17.25)	0.55 W/kg
Zoom Scan (7x7x7) (C:\SAR\Case\CCI\SA77 S1_TA FCC\TA NAM FCC\Wifi b\LE Cheek_WLAN802.11b_CH6_repeated with external Memory card inside.da52:0\LE Cheek)	
Max. 2 at (4.47, 32.91, -17.46)	0.77 W/kg
Distances and Separation Ratios	
Max. 1 - Max. 2	Distance [cm]: 8.43 / Separation ratio [W/kg/cm]: 0.16



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Find distance of maxima	
Maxima   associated 1g averages	
Zoom Scan (C:\SAR\Case\CC\ISA77 AP NAM FCC\WCDMA B2\Body-worn_Back side_CH9400.da52:0\Body-worn)	1.13 W/kg
Max. 1 at (-5.44, 5.99, -20.69)	
Zoom Scan (7x7x7) (C:\SAR\Case\CC\ISA77 S1_TA FCC\TA NAM FCC\Wifi a 5.5G\Body-worn_Back side_WLAN802.11a 5.5G_CH124.da52:0\Body-worn)	0.68 W/kg
Max. 2 at (-2.28, -3.68, -20.66)	
Distances and Separation Ratios	
Max. 1 - Max. 2	Distance [cm]: 10.17 / Separation ratio [W/kg/cm]: 0.18



12. WLAN / WWAN – According to **KDB447498 D01v05 & KDB648474 D01v01r05**, antenna separation is > 5cm, sum of SAR is less than 1.6W/kg, hence no simultaneous SAR is needed.

### **Additional configuration (Head):**

13. For highest SAR configuration in this band repeated with external Memory card inside. (WCDMA Band V – Right cheek position – CH4233)

### **Additional configuration (Body):**

14. For highest SAR configuration in this band repeated with external Memory card inside. (WCDMA Band IV – Bottom position - CH1513)

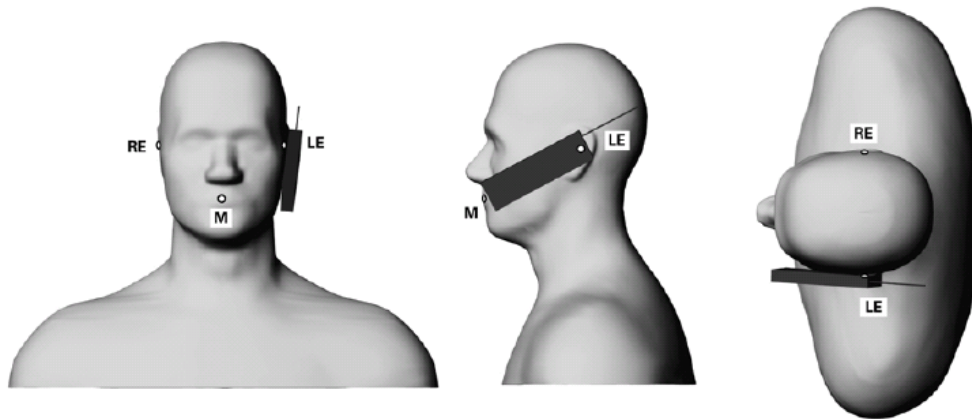
15. For highest SAR configuration in this band repeated with Headset (MH410C). (WCDMA Band IV – Bottom position - CH1513)

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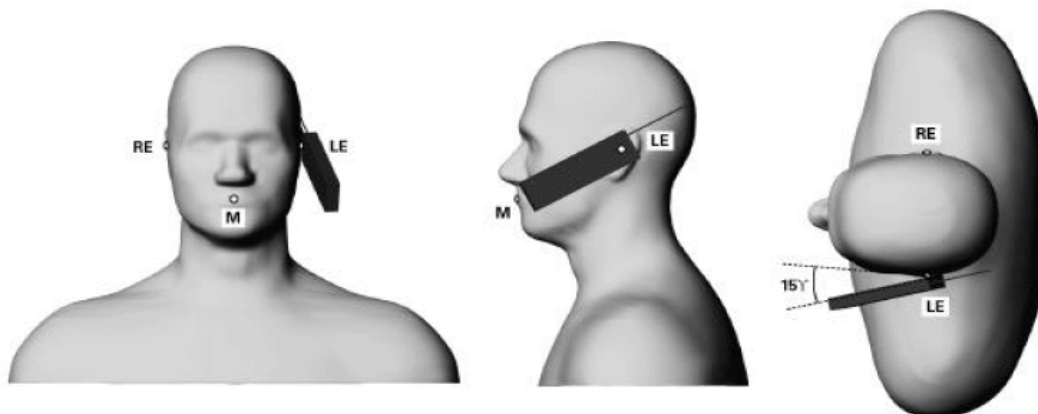
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## 1.6 Positioning Procedure



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.

### Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

### Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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## 1.7 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
3. The generation of a high-resolution mesh within the measured volume.
4. The interpolation of all measured values from the measurement grid to the high-resolution grid.
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface.
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for

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most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is then moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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## 1.8 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.8.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field ( $E$ ) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

Whereby  $\sigma$  is the conductivity,  $\rho$  the density and  $c$  the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for  $c$ ; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed  $\pm 5\%$ .
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about  $\pm 10\%$  (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is  $\pm 5\%$  (RSS) when the same liquid is used for the calibration and for actual measurements and  $\pm 7-9\%$  (RSS) when not, which is in good agreement with the estimates given in [2].

### 1.8.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.

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- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

## References

- [1] N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
- [2] K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- [3] K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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## 1.9 The SAR Measurement System

A block diagram of the SAR measurement system is given in Fig. a. This SAR measurement system uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). A model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E_i|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

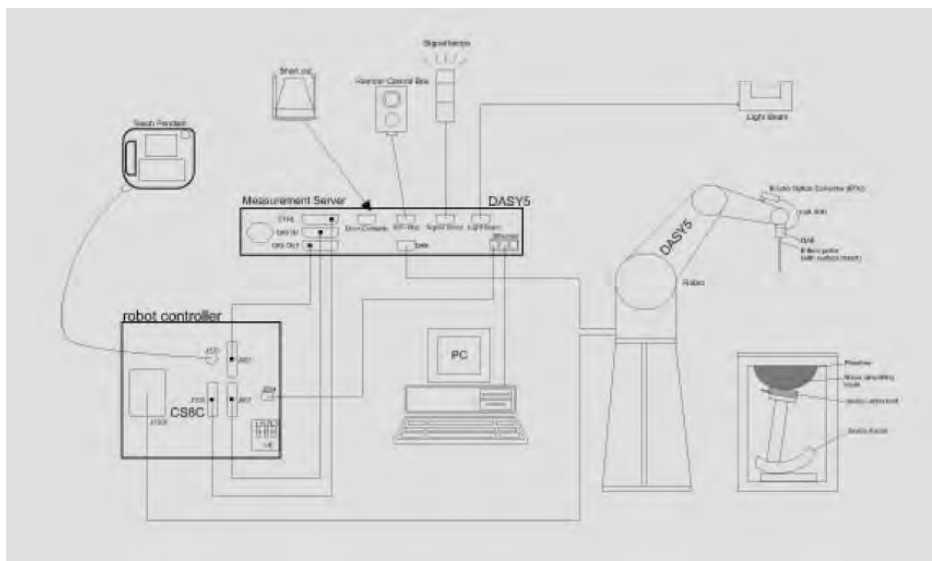


Fig. a A block diagram of the SAR measurement system

The DASY 5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

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- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating WindowsXP
- DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.


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## 1.10 System Components

### EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL835/1750/1900/2450/5200/5500/5800MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz; Linearity: $\pm 0.6$ dB (30 MHz to 4 GHz)	
Directivity	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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### SAM PHANTOM V4.0C

Construction:	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p>	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	<p>Height: 810 mm;</p> <p>Length: 1000 mm;</p> <p>Width: 500 mm</p>	

### DEVICE HOLDER

Construction	<p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p>	 <p style="text-align: center;">Device Holder</p>
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## 1.11 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% (according to KDB865664 D01) from the target SAR values.

These tests were done at 835/1750/1900/2450/5200/5500/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

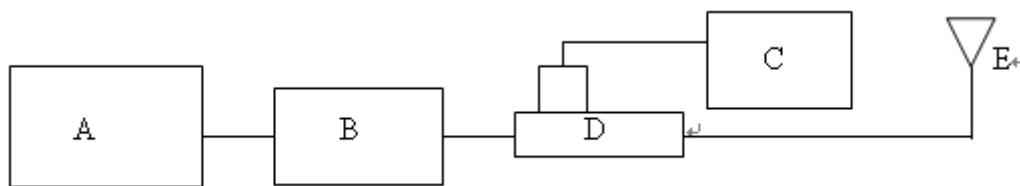
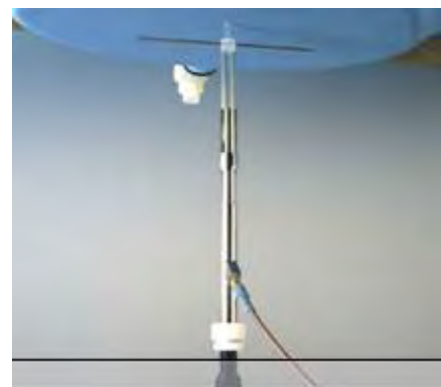


Fig. b The block diagram of system verification

- A. Signal Generator
- B. Amplifier
- C. Power Sensor
- D. Dual Directional Coupling
- E. Reference Dipole Antenna



Photograph of the Dipole Antenna

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Validation Kit	S/N	Frequency (MHz)		Target SAR (1g) (Pin=250mW) (mW/g)	Measured SAR (1g)(mW/g)	Measured Date
D835V2	4d063	835	Head	2.36	2.21	Jan. 11, 2013
			Body	2.46	2.46	Jan. 11, 2013
D1750V2	1008	1750	Head	8.76	8.87	Jan. 13, 2013
			Body	9.03	9.46	Jan. 13, 2013
D1900V2	5d027	1900	Head	9.43	9.79	Jan. 12, 2013
			Body	10	9.96	Jan. 12, 2013
D2450V2	727	2450	Head	12.8	12.6	Nov. 14, 2012
			Body	12.7	13.2	Nov. 14, 2012
D5GHzV2	1104	5200	Head	8.22	8.01	Nov. 21, 2012
			Body	7.41	7.56	Nov. 25, 2012
D5GHzV2	1104	5200	Head	8.22	7.92	Nov. 26, 2012
			Body	7.41	7.63	Nov. 30, 2012
D5GHzV2	1104	5500	Head	8.54	8.21	Dec. 03, 2012
			Body	7.89	7.83	Dec. 10, 2012
D5GHzV2	1104	5800	Head	8.08	8.1	Dec. 11, 2012
			Body	7.32	7.31	Dec. 12, 2012

Table 1. System validation (follow manufacture target value)

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### 1.12 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was at least 15cm during all tests. (Appendix Fig. 2)

Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
835	Head	$\epsilon_r$	Verification	38.57-42.63	40.913	Jan. 11, 2013
			Test CH (L)_GSM		41.053	
			Test CH (M)_GSM		40.889	
			Test CH (H)_GSM		40.721	
			Test CH (L)_WCDMA		41.031	
			Test CH (M)_WCDMA		40.889	
			Test CH (H)_WCDMA		40.766	
		$\sigma$ (S/m)	Verification	0.85-0.93	0.903	
			Test CH (L)_GSM		0.894	
			Test CH (M)_GSM		0.905	
			Test CH (H)_GSM		0.915	
			Test CH (L)_WCDMA		0.896	
			Test CH (M)_WCDMA		0.905	
			Test CH (H)_WCDMA		0.913	
Simulated Tissue Temp.( $^{\circ}$ C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
835	Body	$\epsilon_r$	Verification	51.59-57.02	53.467	Jan. 11, 2013
			Test CH (L)_GSM		53.549	
			Test CH (M)_GSM		53.455	
			Test CH (H)_GSM		53.371	
			Test CH (L)_WCDMA		53.532	
			Test CH (M)_WCDMA		53.455	
			Test CH (H)_WCDMA		53.385	
		$\sigma$ (S/m)	Verification	0.95-1.05	1	
			Test CH (L)_GSM		0.989	
			Test CH (M)_GSM		1.001	
			Test CH (H)_GSM		1.013	
			Test CH (L)_WCDMA		0.991	
			Test CH (M)_WCDMA		1.001	
			Test CH (H)_WCDMA		1.011	
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
1750	Head	$\epsilon_r$	Verification	38.48-42.53	41.425	Jan. 13, 2013
			Test CH (L)_WCDMA		41.513	
			Test CH (M)_WCDMA		41.471	
			Test CH (H)_WCDMA		41.413	
		$\sigma$ (S/m)	Verification	1.27-1.41	1.372	
			Test CH (L)_WCDMA		1.338	
			Test CH (M)_WCDMA		1.356	
			Test CH (H)_WCDMA		1.374	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	50.26-55.55	53.045	
			Test CH (L)_WCDMA		53.13	
			Test CH (M)_WCDMA		53.083	
			Test CH (H)_WCDMA		53.035	
		$\sigma$ (S/m)	Verification	1.39-1.53	1.474	
			Test CH (L)_WCDMA		1.436	
			Test CH (M)_WCDMA		1.456	
Test CH (H)_WCDMA			1.477			
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
1900	Head	$\epsilon_r$	Verification	38.76-42.84	40.132	Jan. 12, 2013
			Test CH (L)_GSM		40.269	
			Test CH (M)_GSM		40.199	
			Test CH (H)_GSM		40.103	
			Test CH (L)_WCDMA		40.264	
			Test CH (M)_WCDMA		40.199	
			Test CH (H)_WCDMA		40.109	
		$\sigma$ (S/m)	Verification	1.3-1.44	1.382	
			Test CH (L)_GSM		1.334	
			Test CH (M)_GSM		1.363	
			Test CH (H)_GSM		1.392	
			Test CH (L)_WCDMA		1.336	
			Test CH (M)_WCDMA		1.363	
			Test CH (H)_WCDMA		1.39	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	50.64-55.97	51.288	
			Test CH (L)_GSM		51.471	
			Test CH (M)_GSM		51.361	
			Test CH (H)_GSM		51.255	
			Test CH (L)_WCDMA		51.461	
			Test CH (M)_WCDMA		51.361	
			Test CH (H)_WCDMA		51.261	
		$\sigma$ (S/m)	Verification	1.43-1.59	1.536	
			Test CH (L)_GSM		1.482	
			Test CH (M)_GSM		1.514	
			Test CH (H)_GSM		1.546	
			Test CH (L)_WCDMA		1.484	
			Test CH (M)_WCDMA		1.514	
Test CH (H)_WCDMA			1.544			
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
2450	Head	$\epsilon_r$	Verification	37.62-41.58	39.847	Nov. 14, 2012
			Test CH 1_WLAN		39.944	
			Test CH 6_WLAN		39.883	
			Test CH 11_WLAN		39.801	
		$\sigma$ (S/m)	Verification	1.72-1.9	1.804	
			Test CH 1_WLAN		1.76	
			Test CH 6_WLAN		1.79	
			Test CH 11_WLAN		1.815	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	49.78-55.02	53.021	
			Test CH 1_WLAN		53.111	
			Test CH 6_WLAN		53.034	
			Test CH 11_WLAN		53.002	
		$\sigma$ (S/m)	Verification	1.88-2.08	1.956	
Test CH 1_WLAN			1.894			
Test CH 6_WLAN			1.935			
Test CH 11_WLAN			1.973			
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
5200	Head	$\epsilon_r$	Verification	33.25-36.75	35.423	Nov. 21, 2012
			Test CH 36_WLAN		35.463	
			Test CH 38_WLAN		35.443	
			Test CH 46_WLAN		35.349	
			Test CH 48_WLAN		35.329	
		$\sigma$ (S/m)	Verification	4.29-4.75	4.473	
			Test CH 36_WLAN		4.455	
			Test CH 38_WLAN		4.464	
			Test CH 46_WLAN		4.51	
			Test CH 48_WLAN		4.52	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	45.41-50.19	48.516	Nov. 25, 2012
			Test CH 36_WLAN		48.558	
			Test CH 38_WLAN		48.539	
			Test CH 46_WLAN		48.447	
			Test CH 48_WLAN		48.426	
		$\sigma$ (S/m)	Verification	5.14-5.68	5.31	
			Test CH 36_WLAN		5.284	
Test CH 38_WLAN			5.297			
Test CH 46_WLAN			5.355			
Test CH 48_WLAN			5.368			
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
5200	Head	$\epsilon_r$	Verification	33.25-36.75	35.485	Nov. 26, 2012
			Test CH 52_WLAN		35.281	
			Test CH 54_WLAN		35.264	
			Test CH 60_WLAN		35.215	
			Test CH 62_WLAN		35.186	
			Test CH 64_WLAN		35.158	
		$\sigma$ (S/m)	Verification	4.29-4.75	4.491	
			Test CH 52_WLAN		4.544	
			Test CH 54_WLAN		4.556	
			Test CH 60_WLAN		4.584	
			Test CH 62_WLAN		4.597	
			Test CH 64_WLAN		4.609	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	45.41-50.19	48.522	Nov. 30, 2012
			Test CH 52_WLAN		48.382	
			Test CH 54_WLAN		48.363	
			Test CH 60_WLAN		48.311	
			Test CH 62_WLAN		48.284	
			Test CH 64_WLAN		48.26	
		$\sigma$ (S/m)	Verification	5.14-5.68	5.299	
			Test CH 52_WLAN		5.397	
Test CH 54_WLAN			5.413			
Test CH 60_WLAN			5.453			
Test CH 62_WLAN			5.468			
Test CH 64_WLAN			5.483			
Simulated Tissue Temp.(°C)		20-24	21.7			

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
5500	Head	$\epsilon_r$	Verification	32.87-36.33	34.784	Dec. 03, 2012
			Test CH 100_WLAN		34.784	
			Test CH 102_WLAN		34.759	
			Test CH 116_WLAN		34.603	
			Test CH 118_WLAN		34.588	
			Test CH 124_WLAN		34.525	
			Test CH 134_WLAN		34.417	
			Test CH 136_WLAN		34.396	
			Test CH 140_WLAN		34.363	
		$\sigma$ (S/m)	Verification	4.56-5.04	4.818	
			Test CH 100_WLAN		4.818	
			Test CH 102_WLAN		4.825	
			Test CH 116_WLAN		4.902	
			Test CH 118_WLAN		4.911	
			Test CH 124_WLAN		4.943	
			Test CH 134_WLAN		5.002	
			Test CH 136_WLAN		5.014	
			Test CH 140_WLAN		5.033	
		Simulated Tissue Temp.(°C)		20-24	21.7	

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
5500	Body	$\epsilon_r$	Verification	44.94-49.67	47.906	Dec. 10, 2012
			Test CH 100_WLAN		47.906	
			Test CH 102_WLAN		47.886	
			Test CH 116_WLAN		47.725	
			Test CH 118_WLAN		47.715	
			Test CH 124_WLAN		47.672	
			Test CH 134_WLAN		47.551	
			Test CH 136_WLAN		47.53	
			Test CH 140_WLAN		47.506	
		$\sigma$ (S/m)	Verification	5.49-6.07	5.741	
			Test CH 100_WLAN		5.741	
			Test CH 102_WLAN		5.755	
			Test CH 116_WLAN		5.858	
			Test CH 118_WLAN		5.873	
			Test CH 124_WLAN		5.915	
			Test CH 134_WLAN		5.985	
			Test CH 136_WLAN		6.003	
			Test CH 140_WLAN		6.032	
		Simulated Tissue Temp.(°C)		20-24	21.7	

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Frequency (MHz)	Tissue Type	Dielectric Parameters		Recommended Limits	Measured	Measurement Date
5800	Head	$\epsilon_r$	Verification	32.4-35.81	34.161	Dec. 11, 2012
			Test CH 149_WLAN		34.274	
			Test CH 151_WLAN		34.249	
			Test CH 157_WLAN		34.186	
			Test CH 159_WLAN		34.169	
			Test CH 165_WLAN		34.103	
		$\sigma$ (S/m)	Verification	4.85-5.37	5.146	
			Test CH 149_WLAN		5.083	
			Test CH 151_WLAN		5.095	
			Test CH 157_WLAN		5.132	
			Test CH 159_WLAN		5.142	
			Test CH 165_WLAN		5.176	
	Simulated Tissue Temp.(°C)		20-24	21.7		
	Body	$\epsilon_r$	Verification	44.46-49.14	47.31	Dec. 12, 2012
			Test CH 149_WLAN		47.437	
			Test CH 151_WLAN		47.407	
			Test CH 157_WLAN		47.334	
			Test CH 159_WLAN		47.318	
			Test CH 165_WLAN		47.277	
		$\sigma$ (S/m)	Verification	5.89-6.51	6.178	
			Test CH 149_WLAN		6.092	
Test CH 151_WLAN			6.106			
Test CH 157_WLAN			6.156			
Test CH 159_WLAN			6.171			
Test CH 165_WLAN			6.218			
Simulated Tissue Temp.(°C)		20-24	21.7			

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
850	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.0L(Kg)
	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for tissue simulating liquid

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### 1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 m W/g	8.00 m W/g
Spatial Average SAR (Whole Body)	0.08 m W/g	0.40 m W/g
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 m W/g	20.00 m W/g

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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## 2. Summary of Results

### GSM 850 MHz

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	Right cheek	-	128	824.2	33.5	33.05	10.92%	0.31	0.344	86
	Right cheek	-	190	836.6	33.5	33.07	10.41%	0.437	0.482	87
	Right cheek	-	251	848.8	33.5	33.35	3.51%	0.543	0.562	88
	Right tilt	-	190	836.6	33.5	33.07	10.41%	0.254	0.280	89
	Left cheek	-	190	836.6	33.5	33.07	10.41%	0.379	0.418	90
	Left tilt	-	190	836.6	33.5	33.07	10.41%	0.238	0.263	91
GSM (Body-worn speech mode)	Front	15mm	190	836.6	33.5	33.07	10.41%	0.364	0.402	92
	Back	15mm	190	836.6	33.5	33.07	10.41%	0.458	0.506	93
GPRS (Hotspot) (1Dn3UP)	Front	10mm	128	824.2	30.5	30.5	0.00%	0.698	0.698	94
	Front	10mm	190	836.6	30.5	30.5	0.00%	0.854	0.854	95
	Front	10mm	251	848.8	30.5	30.4	2.33%	0.973	0.996	96
	Front*	10mm	251	848.8	30.5	30.4	2.33%	0.948	0.970	97
	Back	10mm	128	824.2	30.5	30.5	0.00%	0.844	0.844	98
	Back	10mm	190	836.6	30.5	30.5	0.00%	0.889	0.889	99
	Back	10mm	251	848.8	30.5	30.4	2.33%	0.918	0.939	100
	Bottom	10mm	190	836.6	30.5	30.5	0.00%	0.163	0.163	101
	Right	10mm	190	836.6	30.5	30.5	0.00%	0.614	0.614	102
	Left	10mm	190	836.6	30.5	30.5	0.00%	0.68	0.680	103

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.

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**GSM 1900 MHz**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	Right cheek	-	512	1850.2	30.5	30.23	6.41%	0.187	0.199	104
	Right cheek	-	661	1880	30.5	30.35	3.51%	0.18	0.186	105
	Right cheek	-	810	1909.8	30.5	30.37	3.04%	0.229	0.236	106
	Right tilt	-	661	1880	30.5	30.35	3.51%	0.078	0.081	107
	Left cheek	-	512	1850.2	30.5	30.23	6.41%	0.169	0.180	108
	Left cheek	-	661	1880	30.5	30.35	3.51%	0.18	0.186	109
	Left cheek	-	810	1909.8	30.5	30.37	3.04%	0.229	0.236	110
	Left tilt	-	661	1880	30.5	30.35	3.51%	0.083	0.086	111
GSM (Body-worn speech mode)	Front	15mm	661	1880	30.5	30.35	3.51%	0.184	0.190	112
	Back	15mm	661	1880	30.5	30.35	3.51%	0.242	0.251	113
GPRS (Hotspot) (1Dn3UP)	Front	10mm	661	1880	27.5	27.2	7.15%	0.502	0.538	114
	Back	10mm	661	1880	27.5	27.2	7.15%	0.743	0.796	115
	Bottom	10mm	512	1850.2	27.5	27.2	7.15%	0.88	0.943	116
	Bottom*	10mm	512	1850.2	27.5	27.2	7.15%	0.843	0.903	117
	Bottom	10mm	661	1880	27.5	27.2	7.15%	0.832	0.892	118
	Bottom	10mm	810	1909.8	27.5	27.2	7.15%	0.871	0.933	119
	Right	10mm	661	1880	27.5	27.2	7.15%	0.07	0.075	120
	Left	10mm	661	1880	27.5	27.2	7.15%	0.212	0.227	121

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.

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**WCDMA Band II**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	Right cheek	-	9400	1880	23.5	23.25	5.93%	0.502	0.532	122
	Right tilt	-	9400	1880	23.5	23.25	5.93%	0.216	0.229	123
	Left cheek	-	9262	1852.4	23.5	23.46	0.93%	0.53	0.535	124
	Left cheek	-	9400	1880	23.5	23.25	5.93%	0.549	0.582	125
	Left cheek	-	9538	1907.6	23.5	23.16	8.14%	0.544	0.588	126
	Left tilt	-	9400	1880	23.5	23.25	5.93%	0.228	0.242	127
Body-worn Speech mode	Front	15mm	9400	1880	23.5	23.25	5.93%	0.462	0.489	128
	Back	15mm	9400	1880	23.5	23.25	5.93%	0.543	0.575	129
Hotspot mode	Front	10mm	9400	1880	23.5	23.25	5.93%	0.75	0.794	130
	Back	10mm	9262	1852.4	23.5	23.46	0.93%	1.09	1.100	131
	Back	10mm	9400	1880	23.5	23.25	5.93%	1.13	1.197	132
	Back	10mm	9538	1907.6	23.5	23.16	8.14%	1.05	1.136	133
	Bottom	10mm	9262	1852.4	23.5	23.46	0.93%	1.21	1.221	134
	Bottom*	10mm	9262	1852.4	23.5	23.46	0.93%	1.17	1.181	135
	Bottom	10mm	9400	1880	23.5	23.25	5.93%	1.19	1.261	136
	Bottom	10mm	9538	1907.6	23.5	23.16	8.14%	1.08	1.168	137
	Right	10mm	9400	1880	23.5	23.25	5.93%	0.121	0.128	138
	Left	10mm	9400	1880	23.5	23.25	5.93%	0.38	0.403	139

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

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**WCDMA Band IV**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	Right cheek	-	1312	1712.4	24	23.53	11.43%	0.524	0.584	140
	Right cheek	-	1412	1732.4	24	23.68	7.65%	0.423	0.455	141
	Right cheek	-	1513	1752.6	24	23.73	6.41%	0.6	0.638	142
	Right tilt	-	1412	1732.4	24	23.68	7.65%	0.138	0.149	143
	Left cheek	-	1412	1732.4	24	23.68	7.65%	0.421	0.453	144
	Left tilt	-	1412	1732.4	24	23.68	7.65%	0.15	0.161	145
Body-worn Speech mode	Front	15mm	1412	1732.4	24	23.68	7.65%	0.285	0.307	146
	Back	15mm	1412	1732.4	24	23.68	7.65%	0.418	0.450	147
Hotspot mode	Front	10mm	1412	1732.4	24	23.68	7.65%	0.554	0.596	148
	Back	10mm	1412	1732.4	24	23.68	7.65%	0.746	0.803	149
	Bottom	10mm	1312	1712.4	24	23.53	11.43%	1.05	1.170	150
	Bottom	10mm	1412	1732.4	24	23.68	7.65%	0.962	1.036	151
	Bottom	10mm	1513	1752.6	24	23.73	6.41%	1.25	1.330	152
	Bottom -with memory card	10mm	1513	1752.6	24	23.73	6.41%	1.3	<b>1.383</b>	153
	Bottom -with memory card*	10mm	1513	1752.6	24	23.73	6.41%	1.28	1.362	155
	Bottom -with headset (MH410C)	10mm	1513	1752.6	24	23.73	6.41%	1.29	1.373	156
	Right	10mm	1412	1732.4	24	23.68	7.65%	0.086	0.093	157
	Left	10mm	1412	1732.4	24	23.68	7.65%	0.247	0.266	158

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

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**WCDMA Band V**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	Right cheek	-	4132	826.4	24	23.7	7.15%	0.413	0.443	159
	Right cheek	-	4183	836.6	24	23.94	1.39%	0.548	0.556	160
	Right cheek	-	4233	846.6	24	23.68	7.65%	0.611	0.658	161
	Right cheek -with memory card	-	4233	846.6	24	23.68	7.65%	0.594	0.639	163
	Right tilt	-	4183	836.6	24	23.94	1.39%	0.365	0.370	164
	Left cheek	-	4183	836.6	24	23.94	1.39%	0.5	0.507	165
	Left tilt	-	4183	836.6	24	23.94	1.39%	0.35	0.355	166
Body-worn Speech mode	Front	15mm	4183	836.6	24	23.94	1.39%	0.446	0.452	167
	Back	15mm	4183	836.6	24	23.94	1.39%	0.601	0.609	168
Hotspot mode	Front	10mm	4183	836.6	24	23.94	1.39%	0.705	0.715	169
	Back	10mm	4132	826.4	24	23.7	7.15%	0.582	0.624	170
	Back	10mm	4183	836.6	24	23.94	1.39%	0.781	0.792	171
	Back	10mm	4233	846.6	24	23.68	7.65%	0.661	0.712	172
	Bottom	10mm	4183	836.6	24	23.94	1.39%	0.154	0.156	173
	Right	10mm	4183	836.6	24	23.94	1.39%	0.568	0.576	174
	Left	10mm	4183	836.6	24	23.94	1.39%	0.596	0.604	175

# Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

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**WLAN802.11 b**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	6	2437	18.0	17.92	1.86%	0.236	0.240	176
	Right tilt	-	6	2437	18.0	17.92	1.86%	0.147	0.150	177
	Left cheek	-	1	2412	18.0	17.82	4.23%	0.602	0.627	178
	Left cheek	-	6	2437	18.0	17.92	1.86%	0.626	0.638	179
	Left cheek	-	11	2462	18.0	17.69	7.40%	0.555	0.596	180
	Left cheek -with memory card	-	6	2437	18.0	17.92	1.86%	0.773	0.787	181
	Left cheek -with Bluetooth	-	6	2437	18.0	17.92	1.86%	0.743	0.757	183
	Left tilt	-	6	2437	18.0	17.92	1.86%	0.278	0.283	184
Hotspot	Front	10mm	6	2437	18.0	17.92	1.86%	0.116	0.118	185
	Back	10mm	1	2412	18.0	17.82	4.23%	0.326	0.340	186
	Back	10mm	6	2437	18.0	17.92	1.86%	0.483	0.492	187
	Back	10mm	11	2462	18.0	17.69	7.40%	0.519	0.557	188
	Top	10mm	6	2437	18.0	17.92	1.86%	0.053	0.054	189
	Right	10mm	6	2437	18.0	17.92	1.86%	0.4	0.407	190

- # Using KDB248227 D01v01-SAR is not required for 802.11 g/HT20 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.
- # According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.
- # Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 a 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	36	5180	16.0	15.98	0.46%	0.045	0.045	191
	Right tilt	-	36	5180	16.0	15.98	0.46%	0.012	0.012	192
	Left cheek	-	36	5180	16.0	15.98	0.46%	0.212	0.213	193
	Left cheek	-	48	5240	16.0	15.97	0.69%	0.092	0.093	194
	Left tilt	-	36	5180	16.0	15.98	0.46%	0.034	0.034	195
Hotspot	Front	10mm	36	5180	16.0	15.98	0.46%	0.067	0.067	196
	Back	10mm	36	5180	16.0	15.98	0.46%	0.357	0.359	197
	Top	10mm	36	5180	16.0	15.98	0.46%	0.02	0.020	198
	Right	10mm	36	5180	16.0	15.98	0.46%	0.506	0.508	199
	Right	10mm	48	5240	16.0	15.97	0.69%	0.481	0.484	200

- # As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".
- # Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 a 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	60	5300	16.0	15.99	0.23%	0.025	0.025	201
	Right tilt	-	60	5300	16.0	15.99	0.23%	0.016	0.016	202
	Left cheek	-	52	5260	16.0	15.96	0.93%	0.145	0.146	203
	Left cheek	-	60	5300	16.0	15.99	0.23%	0.12	0.120	204
	Left tilt	-	60	5300	16.0	15.99	0.23%	0.039	0.039	205
Hotspot	Front	10mm	60	5300	16.0	15.99	0.23%	0.033	0.033	206
	Back	10mm	60	5300	16.0	15.99	0.23%	0.239	0.240	207
	Top	10mm	60	5300	16.0	15.99	0.23%	0.00494	0.005	208
	Right	10mm	52	5260	16.0	15.96	0.93%	0.431	0.435	209
	Right	10mm	60	5300	16.0	15.99	0.23%	0.379	0.380	210

- # As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".
- # Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 a 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	116	5580	16.0	15.97	0.69%	0.053	0.053	211
	Right tilt	-	116	5580	16.0	15.97	0.69%	0.048	0.048	212
	Left cheek	-	100	5500	16.0	15.9	2.33%	0.138	0.141	213
	Left cheek	-	116	5580	16.0	15.97	0.69%	0.244	0.246	214
	Left cheek	-	124	5620	16.0	15.91	2.09%	0.203	0.207	215
	Left cheek	-	136	5680	16.0	15.87	3.04%	0.12	0.124	216
	Left tilt	-	116	5580	16.0	15.97	0.69%	0.139	0.140	217
Hotspot	Front	10mm	116	5580	16.0	15.97	0.69%	0.035	0.035	218
	Back	10mm	100	5500	16.0	15.9	2.33%	0.237	0.243	219
	Back	10mm	116	5580	16.0	15.97	0.69%	0.63	0.634	220
	Back	10mm	124	5620	16.0	15.91	2.09%	0.678	0.692	221
	Back	10mm	136	5680	16.0	15.87	3.04%	0.468	0.482	223
	Back -with memory card	10mm	124	5620	16.0	15.91	2.09%	0.644	0.657	224
	Back -with Bluetooth	10mm	124	5620	16.0	15.91	2.09%	0.606	0.619	225
	Back -with headset (MH410C)	10mm	124	5620	16.0	15.91	2.09%	0.563	0.575	226
	Top	10mm	116	5580	16.0	15.97	0.69%	0.025	0.025	227
	Right	10mm	116	5580	16.0	15.97	0.69%	0.307	0.309	228

- # As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.4W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".
- # Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 a 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	165	5825	16.0	15.97	0.69%	0.036	0.036	229
	Right tilt	-	165	5825	16.0	15.97	0.69%	0.00556	0.006	230
	Left cheek	-	149	5745	16.0	15.95	1.16%	0.151	0.153	231
	Left cheek	-	157	5785	16.0	15.96	0.93%	0.152	0.153	232
	Left cheek	-	165	5825	16.0	15.97	0.69%	0.119	0.120	233
	Left tilt	-	165	5825	16.0	15.97	0.69%	0.034	0.034	234
Hotspot	Front	10mm	165	5825	16.0	15.97	0.69%	0.019	0.019	235
	Back	10mm	149	5745	16.0	15.95	1.16%	0.255	0.258	236
	Back	10mm	157	5785	16.0	15.96	0.93%	0.206	0.208	237
	Back	10mm	165	5825	16.0	15.97	0.69%	0.207	0.208	238
	Top	10mm	165	5825	16.0	15.97	0.69%	0.015	0.015	239
	Right	10mm	165	5825	16.0	15.97	0.69%	0.118	0.119	240

- # As per KDB248227 D01v01, when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01, when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".
- # Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (20M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	36	5180	16.0	15.97	0.69%	0.042	0.042	241
	Right tilt	-	36	5180	16.0	15.97	0.69%	0.019	0.019	242
	Left cheek	-	36	5180	16.0	15.97	0.69%	0.164	0.165	243
	Left cheek	-	48	5240	16.0	15.93	1.62%	0.153	0.155	244
	Left tilt	-	36	5180	16.0	15.97	0.69%	0.033	0.033	245
Hotspot	Front	10mm	36	5180	16.0	15.97	0.69%	0.057	0.057	246
	Back	10mm	36	5180	16.0	15.97	0.69%	0.4	0.403	247
	Top	10mm	36	5180	16.0	15.97	0.69%	0.027	0.027	248
	Right	10mm	36	5180	16.0	15.97	0.69%	0.453	0.456	249
	Right	10mm	48	5240	16.0	15.93	1.62%	0.443	0.450	250

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (20M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	52	5260	16.0	15.99	0.23%	0.02	0.020	251
	Right tilt	-	52	5260	16.0	15.99	0.23%	0.017	0.017	252
	Left cheek	-	52	5260	16.0	15.99	0.23%	0.074	0.074	253
	Left cheek	-	64	5320	16.0	15.87	3.04%	0.053	0.055	254
	Left tilt	-	52	5260	16.0	15.99	0.23%	0.029	0.029	255
Hotspot	Front	10mm	52	5260	16.0	15.99	0.23%	0.041	0.041	256
	Back	10mm	52	5260	16.0	15.99	0.23%	0.386	0.387	257
	Top	10mm	52	5260	16.0	15.99	0.23%	0.015	0.015	258
	Right	10mm	52	5260	16.0	15.99	0.23%	0.408	0.409	259
	Right	10mm	64	5320	16.0	15.87	3.04%	0.259	0.267	260

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (20M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	116	5580	16.0	15.98	0.46%	0.034	0.034	261
	Right tilt	-	116	5580	16.0	15.98	0.46%	0.019	0.019	262
	Left cheek	-	100	5500	16.0	15.93	1.62%	0.105	0.107	263
	Left cheek	-	116	5580	16.0	15.98	0.46%	0.113	0.114	264
	Left cheek	-	140	5700	13.5	13.34	3.75%	0.07	0.073	265
	Left tilt	-	116	5580	16.0	15.98	0.46%	0.078	0.078	266
Hotspot	Front	10mm	116	5580	16.0	15.98	0.46%	0.042	0.042	267
	Back	10mm	100	5500	16.0	15.93	1.62%	0.275	0.279	268
	Back	10mm	116	5580	16.0	15.98	0.46%	0.668	0.671	269
	Back	10mm	140	5700	13.5	13.34	3.75%	0.261	0.271	270
	Top	10mm	116	5580	16.0	15.98	0.46%	0.024	0.024	271
	Right	10mm	116	5580	16.0	15.98	0.46%	0.35	0.352	272

# As per KDB447498 D01v05, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is  $\leq 200$  MHz, testing for the other channels is not required

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (20M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	149	5745	16.0	15.93	1.62%	0.026	0.026	273
	Right tilt	-	149	5745	16.0	15.93	1.62%	0.015	0.015	274
	Left cheek	-	149	5745	16.0	15.93	1.62%	0.152	0.154	275
	Left cheek	-	157	5785	16.0	15.91	2.09%	0.119	0.121	276
	Left cheek	-	165	5825	16.0	15.91	2.09%	0.11	0.112	277
	Left tilt	-	149	5745	16.0	15.93	1.62%	0.061	0.062	278
Hotspot	Front	10mm	149	5745	16.0	15.93	1.62%	0.019	0.019	279
	Back	10mm	149	5745	16.0	15.93	1.62%	0.366	0.372	280
	Back	10mm	157	5785	16.0	15.91	2.09%	0.276	0.282	281
	Back	10mm	165	5825	16.0	15.91	2.09%	0.198	0.202	282
	Top	10mm	149	5745	16.0	15.93	1.62%	0.023	0.023	283
	Right	10mm	149	5745	16.0	15.93	1.62%	0.195	0.198	284

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (40M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	46	5230	16.0	15.92	1.86%	0.037	0.038	285
	Right tilt	-	46	5230	16.0	15.92	1.86%	0.025	0.025	286
	Left cheek	-	38	5190	12.5	12.19	7.40%	0.082	0.088	287
	Left cheek	-	46	5230	16.0	15.92	1.86%	0.168	0.171	288
	Left tilt	-	46	5230	16.0	15.92	1.86%	0.036	0.037	289
Hotspot	Front	10mm	46	5230	16.0	15.92	1.86%	0.019	0.019	290
	Back	10mm	46	5230	16.0	15.92	1.86%	0.262	0.267	291
	Top	10mm	46	5230	16.0	15.92	1.86%	0.019	0.019	292
	Right	10mm	38	5190	12.5	12.19	7.40%	0.175	0.188	293
	Right	10mm	46	5230	16.0	15.92	1.86%	0.277	0.282	294

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (40M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	54	5270	16.0	15.86	3.28%	0.016	0.017	295
	Right tilt	-	54	5270	16.0	15.86	3.28%	0.00332	0.003	296
	Left cheek	-	54	5270	16.0	15.86	3.28%	0.045	0.046	297
	Left cheek	-	62	5310	13.0	12.57	10.41%	0.032	0.035	298
	Left tilt	-	54	5270	16.0	15.86	3.28%	0.013	0.013	299
Hotspot	Front	10mm	54	5270	16.0	15.86	3.28%	0.027	0.028	300
	Back	10mm	54	5270	16.0	15.86	3.28%	0.251	0.259	301
	Top	10mm	54	5270	16.0	15.86	3.28%	0.013	0.013	302
	Right	10mm	54	5270	16.0	15.86	3.28%	0.314	0.324	303
	Right	10mm	62	5310	13.0	12.57	10.41%	0.105	0.116	304

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (40M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	134	5670	16.0	15.94	1.39%	0.039	0.040	305
	Right tilt	-	134	5670	16.0	15.94	1.39%	0.024	0.024	306
	Left cheek	-	102	5510	12.5	12.23	6.41%	0.073	0.078	307
	Left cheek	-	118	5590	16.0	15.79	4.95%	0.236	0.248	308
	Left cheek	-	134	5670	16.0	15.94	1.39%	0.196	0.199	309
	Left tilt	-	134	5670	16.0	15.94	1.39%	0.088	0.089	310
Hotspot	Front	10mm	134	5670	16.0	15.94	1.39%	0.028	0.028	311
	Back	10mm	102	5510	12.5	12.23	6.41%	0.217	0.231	312
	Back	10mm	118	5590	16.0	15.79	4.95%	0.647	0.679	313
	Back	10mm	134	5670	16.0	15.94	1.39%	0.539	0.546	314
	Top	10mm	134	5670	16.0	15.94	1.39%	0.024	0.024	315
	Right	10mm	134	5670	16.0	15.94	1.39%	0.237	0.240	316

# As per KDB447498 D01v05, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is  $\leq 200$  MHz, testing for the other channels is not required

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**WLAN802.11 n (40M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	Right cheek	-	151	5755	16.0	15.97	0.69%	0.04	0.040	317
	Right tilt	-	151	5755	16.0	15.97	0.69%	0.03	0.030	318
	Left cheek	-	151	5755	16.0	15.97	0.69%	0.18	0.181	319
	Left cheek	-	159	5795	16.0	15.96	0.93%	0.091	0.092	320
	Left tilt	-	151	5755	16.0	15.97	0.69%	0.063	0.063	321
Hotspot	Front	10mm	151	5755	16.0	15.97	0.69%	0.025	0.025	322
	Back	10mm	151	5755	16.0	15.97	0.69%	0.235	0.237	323
	Back	10mm	159	5795	16.0	15.96	0.93%	0.2	0.202	324
	Top	10mm	151	5755	16.0	15.97	0.69%	0.00756	0.008	325
	Right	10mm	151	5755	16.0	15.97	0.69%	0.121	0.122	326

# According to KDB447498 D01v05 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

# Refer to section 1.5 (6) for justification of test reduction for body-worn configuration testing

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**Simultaneous Transmission Scenarios:**

Simultaneous Transmit Configurations	Head	Hot Spot
GSM850/1900 Voice + 2.4GHz Wi-Fi	Yes	No
UMTS B2/B4/B5 Voice + 2.4GHz Wi-Fi	Yes	No
GSM850/1900 Voice + 5GHz Wi-Fi	Yes	No
UMTS B2/B4/B5 Voice + 5GHz Wi-Fi	Yes	No
GPRS850/1900 Data + 2.4GHz Wi-Fi	No	Yes
UMTS B2/B4/B5 Data + 2.4GHz Wi-Fi	No	Yes
GPRS850/1900 Data + 5GHz Wi-Fi	No	Yes
UMTS B2/B4/B5 Data + 5GHz Wi-Fi	No	Yes
GSM850/1900 Data + 2.4GHz Bluetooth	No	Yes
UMTS B2/B4/B5 Data + 2.4GHz Bluetooth	No	Yes

**Notes:**

1. GSM & WCDMA share the same antenna path and cannot transmit simultaneously
2. Bluetooth, 5GHz WiFi, and 2.4GHz WiFi share the same antenna path and cannot transmit simultaneously

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**Simultaneous Transmission Combination**

reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR <1.6W/kg	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN			
GSM 850	Head	Right cheek	0.562	0.24	0.802	-	-
		Right tilt	0.28	0.15	0.43	-	-
		Left cheek	0.418	0.787	1.205	-	-
		Left tilt	0.263	0.283	0.546	-	-
GPRS 850 (1Dn3UP)	Hotspot	Front	0.996	0.118	1.114	-	-
		Back	0.939	0.557	1.496	-	-
		Top	-	0.054	-	-	-
		Bottom	0.163	-	-	-	-
		Right	0.614	0.407	1.021	-	-
		Left	0.68	-	-	-	-
GSM 1900	Head	Right cheek	0.236	0.24	0.476	-	-
		Right tilt	0.081	0.15	0.231	-	-
		Left cheek	0.236	0.787	1.023	-	-
		Left tilt	0.086	0.283	0.369	-	-
GPRS 1900 (1Dn3UP)	Hotspot	Front	0.538	0.118	0.656	-	-
		Back	0.796	0.557	1.353	-	-
		Top	-	0.054	-	-	-
		Bottom	0.943	-	-	-	-
		Right	0.075	0.407	0.482	-	-
		Left	0.227	-	-	-	-

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reported SAR WWAN and WLAN DTS 2.4GHz, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR <1.6W/kg	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	WLAN			
WCDMA Band II	Head	Right cheek	0.532	0.24	0.772	-	-
		Right tilt	0.229	0.15	0.379	-	-
		Left cheek	0.582	0.787	1.369	-	-
		Left tilt	0.242	0.283	0.525	-	-
	Hotspot	Front	0.794	0.118	0.912	-	-
		Back	1.197	0.557	<b>1.754</b>	103.9	0.022
		Top	-	0.054	-	-	-
		Bottom	1.221	-	-	-	-
		Right	0.128	0.407	0.535	-	-
		Left	0.403	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.638	0.24	0.878	-	-
		Right tilt	0.149	0.15	0.299	-	-
		Left cheek	0.453	0.787	1.24	-	-
		Left tilt	0.161	0.283	0.444	-	-
	Hotspot	Front	0.596	0.118	0.714	-	-
		Back	0.803	0.557	1.36	-	-
		Top	-	0.054	-	-	-
		Bottom	1.383	-	-	-	-
		Right	0.093	0.407	0.5	-	-
		Left	0.266	-	-	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.022 with less than 0.04 . According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	0.658	0.24	0.898	-	-
		Right tilt	0.37	0.15	0.52	-	-
		Left cheek	0.507	0.787	1.294	-	-
		Left tilt	0.355	0.283	0.638	-	-
	Hotspot	Front	0.715	0.118	0.833	-	-
		Back	0.792	0.557	1.349	-	-
		Top	-	0.054	-	-	-
		Bottom	0.156	-	-	-	-
		Right	0.576	0.407	0.983	-	-
		Left	0.604	-	-	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.562	0.04	0.602	-	-
		Right tilt	0.28	0.03	0.31	-	-
		Left cheek	0.418	0.181	0.599	-	-
		Left tilt	0.263	0.063	0.326	-	-
GPRS 850 (1Dn3UP)	Hotspot	Front	0.996	0.025	1.021	-	-
		Back	0.939	0.372	1.311	-	-
		Top	-	0.023	-	-	-
		Bottom	0.163	-	-	-	-
		Right	0.614	0.198	0.812	-	-
		Left	0.68	-	-	-	-
GSM 1900	Head	Right cheek	0.236	0.04	0.276	-	-
		Right tilt	0.081	0.03	0.111	-	-
		Left cheek	0.236	0.181	0.417	-	-
		Left tilt	0.086	0.063	0.149	-	-
GPRS 1900 (1Dn3UP)	Hotspot	Front	0.538	0.025	0.563	-	-
		Back	0.796	0.372	1.168	-	-
		Top	-	0.023	-	-	-
		Bottom	0.943	-	-	-	-
		Right	0.075	0.198	0.273	-	-
		Left	0.227	-	-	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.036 with less than 0.04 . According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN DTS 5.8 GHz, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	WLAN	<1.6W/kg		
WCDMA Band II	Head	Right cheek	0.532	0.04	0.572	-	-
		Right tilt	0.229	0.03	0.259	-	-
		Left cheek	0.582	0.181	0.763	-	-
		Left tilt	0.242	0.063	0.305	-	-
	Hotspot	Front	0.794	0.025	0.819	-	-
		Back	1.197	0.372	1.569	-	-
		Top	-	0.023	-	-	-
		Bottom	1.221	-	-	-	-
		Right	0.128	0.198	0.326	-	-
		Left	0.403	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.638	0.04	0.678	-	-
		Right tilt	0.149	0.03	0.179	-	-
		Left cheek	0.453	0.181	0.634	-	-
		Left tilt	0.161	0.063	0.224	-	-
	Hotspot	Front	0.596	0.025	0.621	-	-
		Back	0.803	0.372	1.175	-	-
		Top	-	0.023	-	-	-
		Bottom	1.383	-	-	-	-
		Right	0.093	0.198	0.291	-	-
		Left	0.266	-	-	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.026 with less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	0.658	0.04	0.698	-	-
		Right tilt	0.37	0.03	0.4	-	-
		Left cheek	0.507	0.181	0.688	-	-
		Left tilt	0.355	0.063	0.418	-	-
	Hotspot	Front	0.715	0.025	0.74	-	-
		Back	0.792	0.372	1.164	-	-
		Top	-	0.023	-	-	-
		Bottom	0.156	-	-	-	-
		Right	0.576	0.198	0.774	-	-
		Left	0.604	-	-	-	-

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.562	0.053	0.615	-	-
		Right tilt	0.28	0.048	0.328	-	-
		Left cheek	0.418	0.248	0.666	-	-
		Left tilt	0.263	0.14	0.403	-	-
GPRS 850 (1Dn3UP)	Hotspot	Front	0.996	0.067	1.063	-	-
		Back	0.939	0.692	1.631	58	0.036
		Top	-	0.027	-	-	-
		Bottom	0.163	-	-	-	-
		Right	0.614	0.508	1.122	-	-
		Left	0.68	-	-	-	-
GSM 1900	Head	Right cheek	0.236	0.053	0.289	-	-
		Right tilt	0.081	0.048	0.129	-	-
		Left cheek	0.236	0.248	0.484	-	-
		Left tilt	0.086	0.14	0.226	-	-
GPRS 1900 (1Dn3UP)	Hotspot	Front	0.538	0.067	0.605	-	-
		Back	0.796	0.692	1.488	-	-
		Top	-	0.027	-	-	-
		Bottom	0.943	-	-	-	-
		Right	0.075	0.508	0.583	-	-
		Left	0.227	-	-	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.036 with less than 0.04 . According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR <1.6W/kg	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN			
WCDMA Band II	Head	Right cheek	0.532	0.053	0.585	-	-
		Right tilt	0.229	0.048	0.277	-	-
		Left cheek	0.582	0.248	0.83	-	-
		Left tilt	0.242	0.14	0.382	-	-
	Hotspot	Front	0.794	0.067	0.861	-	-
		Back	1.197	0.692	1.889	101.7	0.026
		Top	-	0.027	-	-	-
		Bottom	1.221	-	-	-	-
		Right	0.128	0.508	0.636	-	-
		Left	0.403	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.638	0.053	0.691	-	-
		Right tilt	0.149	0.048	0.197	-	-
		Left cheek	0.453	0.248	0.701	-	-
		Left tilt	0.161	0.14	0.301	-	-
	Hotspot	Front	0.596	0.067	0.663	-	-
		Back	0.803	0.692	1.495	-	-
		Top	-	0.027	-	-	-
		Bottom	1.383	-	-	-	-
		Right	0.093	0.508	0.601	-	-
		Left	0.266	-	-	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.026 with less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR <1.6W/kg	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN			
WCDMA Band V	Head	Right cheek	0.658	0.053	0.711	-	-
		Right tilt	0.37	0.048	0.418	-	-
		Left cheek	0.507	0.248	0.755	-	-
		Left tilt	0.355	0.14	0.495	-	-
	Hotspot	Front	0.715	0.067	0.782	-	-
		Back	0.792	0.692	1.484	-	-
		Top	-	0.027	-	-	-
		Bottom	0.156	-	-	-	-
		Right	0.576	0.508	1.084	-	-
		Left	0.604	-	-	-	-

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reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
GPRS 850 (1Dn3UP)	Hotspot	Front	0.996	0.195	1.191	-	-
		Back	0.939	0.195	1.134	-	-
		Top	-	0.195	-	-	-
		Bottom	0.163	-	-	-	-
		Right	0.614	0.195	0.809	-	-
		Left	0.68	-	-	-	-
GPRS 1900 (1Dn3UP)	Hotspot	Front	0.538	0.195	0.733	-	-
		Back	0.796	0.195	0.991	-	-
		Top	-	0.195	-	-	-
		Bottom	0.943	-	-	-	-
		Right	0.075	0.195	0.27	-	-
		Left	0.227	-	-	-	-
WCDMA Band II	Hotspot	Front	0.794	0.195	0.989	-	-
		Back	1.197	0.195	1.392	-	-
		Top	-	0.195	-	-	-
		Bottom	1.221	-	-	-	-
		Right	0.128	0.195	0.323	-	-
		Left	0.403	-	-	-	-
WCDMA Band IV	Hotspot	Front	0.596	0.195	0.791	-	-
		Back	0.803	0.195	0.998	-	-
		Top	-	0.195	-	-	-
		Bottom	1.383	-	-	-	-
		Right	0.093	0.195	0.288	-	-
		Left	0.266	-	-	-	-

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reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
WCDMA Band V	Hotspot	Front	0.715	0.195	0.91	-	-
		Back	0.792	0.195	0.987	-	-
		Top	-	0.195	-	-	-
		Bottom	0.156	-	-	-	-
		Right	0.576	0.195	0.771	-	-
		Left	0.604	-	-	-	-

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### 3. Instruments List

Device	Manufacturer	Type	Serial number	Date of last calibration	Date of next calibration
Dosimetric E-Field Probe	Schmid & Partner Engineering AG	EX3DV4	3848	Jun.04,2012	Jun.03,2013
835/1750/1900/2450 /5200/5500/5800 MHz System Validation Dipole	Schmid & Partner Engineering AG	D835V2	4d063	May25,2012	May24,2013
		D1750V2	1008	May29,2012	May28,2013
		D1900V2	5d027	Apr.26,2012	Apr.25,2013
		D2450V2	727	Apr.25,2012	Apr.24,2013
		D5GHzV2	1104	Apr.18,2012	Apr.17,2013
Data acquisition Electronics	Schmid & Partner Engineering AG	DAE4	1336	Jun.05,2012	Jun.04,2013
Software	Schmid & Partner Engineering AG	DASY 52 V52.8	N/A	Calibration not required	Calibration not required
Phantom	Schmid & Partner Engineering AG	SAM	N/A	Calibration not required	Calibration not required
Network Analyzer	Agilent	E5071C	MY46107530	Feb.16,2012	Feb.15,2013
Dielectric Probe Kit	Agilent	85070E	MY44300677	Calibration not required	Calibration not required
Dual-directional coupler	Agilent	772D	MY46151242	Jul.05,2012	Jul.04,2013
		778D	MY48220468	Mar.30,2012	Mar.29,2013
RF Signal Generator	Agilent	N5181A	MY50141235	Dec.12,2010	Dec.11,2013
Power Sensor	Agilent	E4417A	MY51410006	Oct.24,2011	Oct.23,2013
Radio Communication Test	R&S	CMU200	122498	Jun.27,2012	Jun.26,2013
TECPEL	Digital thermometer	DTM-303A	TP102615	Mar.08,2012	Mar.07,2013
Power Meter	Anritsu	ML2495A	1005007	Feb.08,2012	Feb.07,2014
Power Sensor	Anritsu	MA2411B	917032	Feb.08,2012	Feb.07,2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	Apr.15,2011	Apr.14,2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar.17,2012	Mar.16,2014

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## 4. Measurements

Date: 2013/1/11

### RE Cheek\_CH128

Communication System: GSM; Frequency: 824.2 MHz

 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.894$  mho/m;  $\epsilon_r = 41.053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASYS Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.349 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

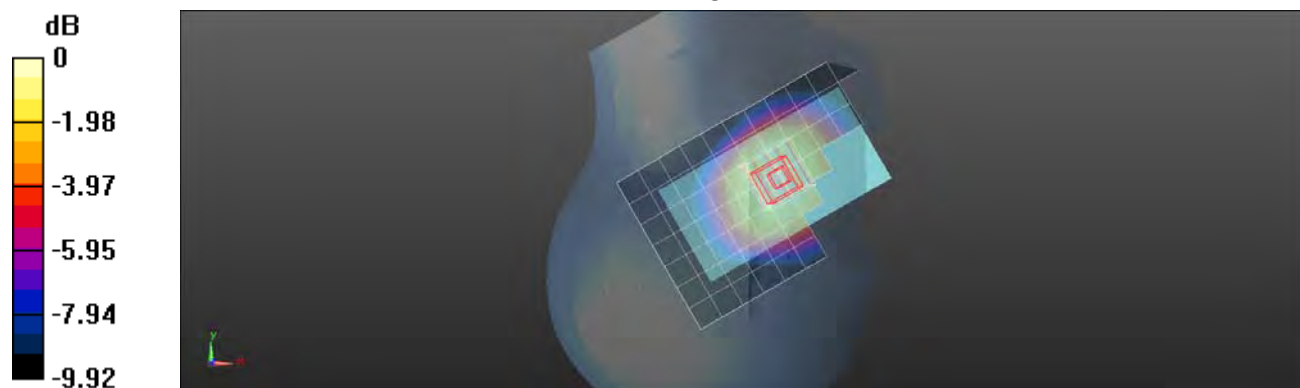
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.744 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.383 mW/g

**SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.233 mW/g**

Maximum value of SAR (measured) = 0.352 mW/g



0 dB = 0.352 mW/g = -9.07 dB mW/g

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Date: 2013/1/11

## RE Cheek\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DAS52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.501 mW/g

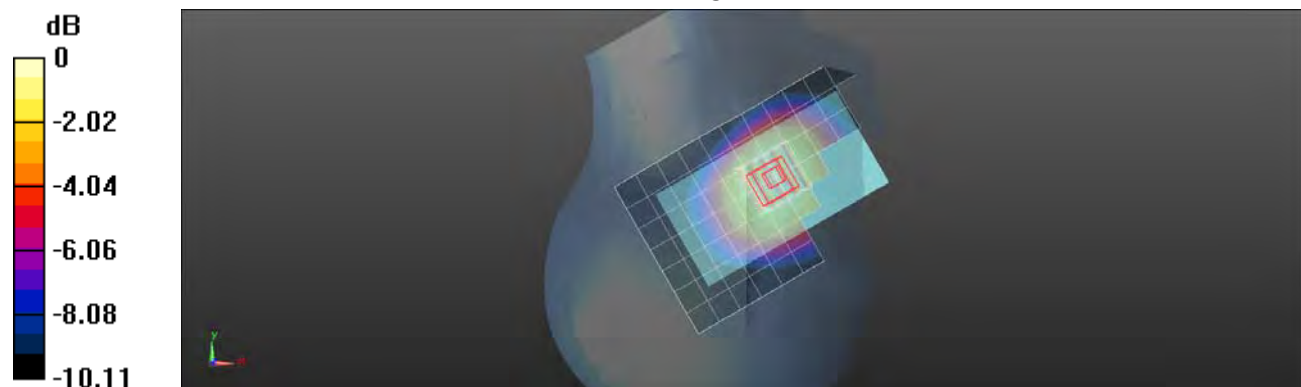
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.499 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.553 mW/g

**SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.325 mW/g**

Maximum value of SAR (measured) = 0.498 mW/g



0 dB = 0.498 mW/g = -6.06 dB mW/g

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Date: 2013/1/11

## RE Cheek\_CH251

Communication System: GSM; Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.915$  mho/m;  $\epsilon_r = 40.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.617 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

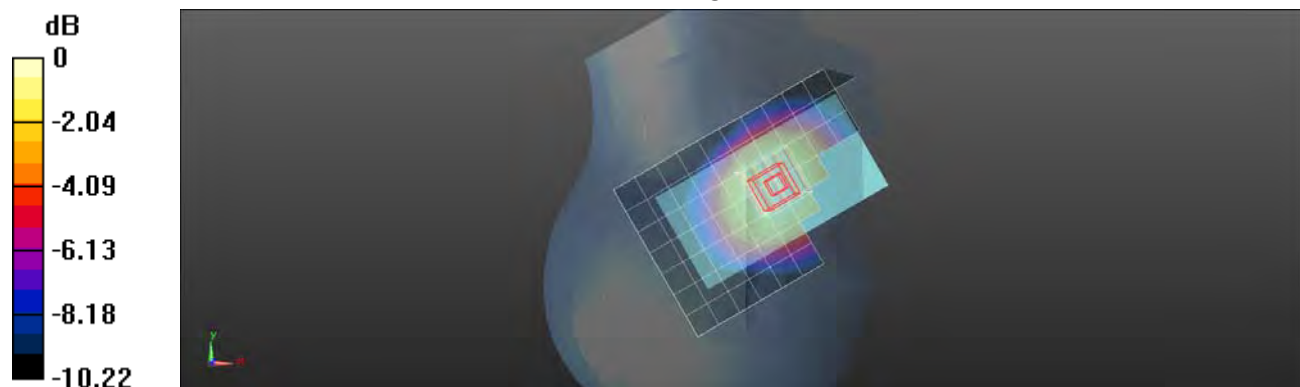
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.750 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.674 mW/g

**SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.403 mW/g**

Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.621 mW/g = -4.14 dB mW/g

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Date: 2013/1/11

## RE Tilt\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.294 mW/g

**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

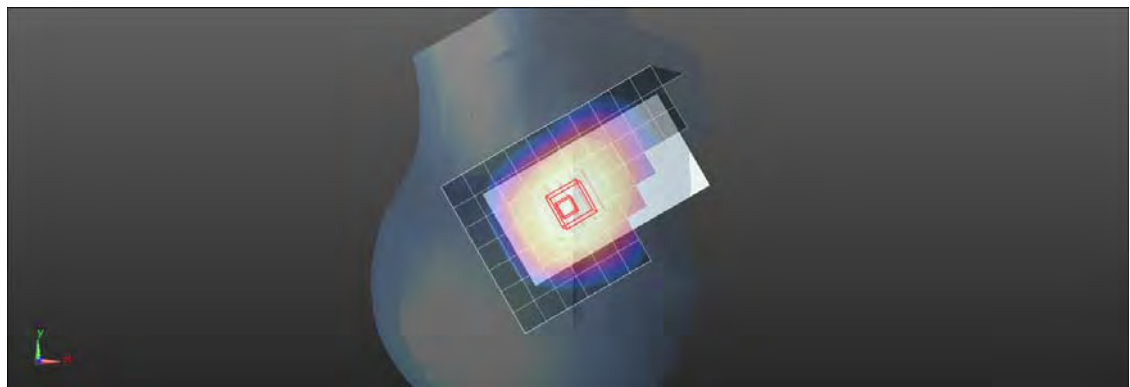
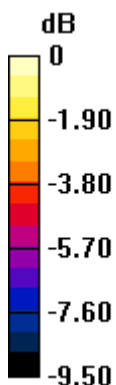
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.904 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.322 mW/g

**SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.189 mW/g**

Maximum value of SAR (measured) = 0.293 mW/g



0 dB = 0.293 mW/g = -10.66 dB mW/g

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Date: 2013/1/11

## LE Cheek\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.443 mW/g

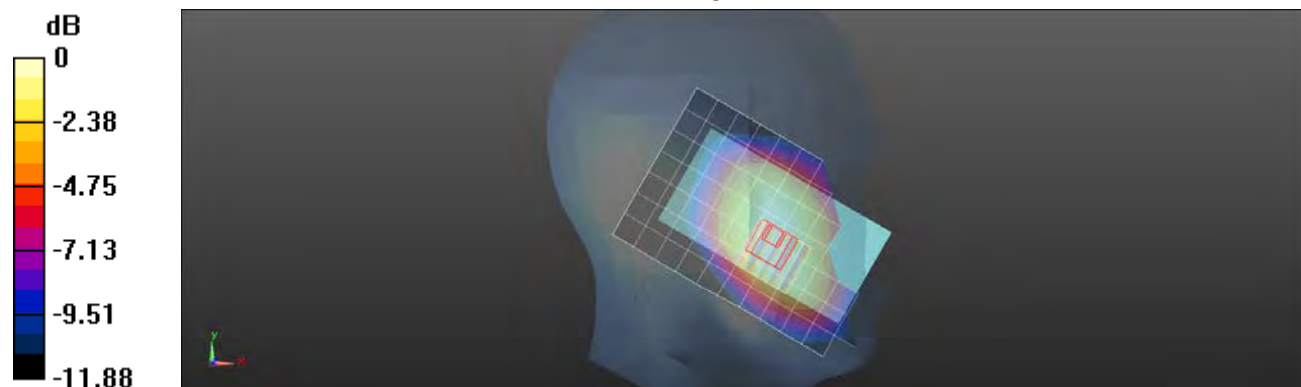
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.326 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.483 mW/g

**SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.266 mW/g**

Maximum value of SAR (measured) = 0.437 mW/g



0 dB = 0.437 mW/g = -7.19 dB mW/g

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Date: 2013/1/11

## LE Tilt\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.279 mW/g

**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

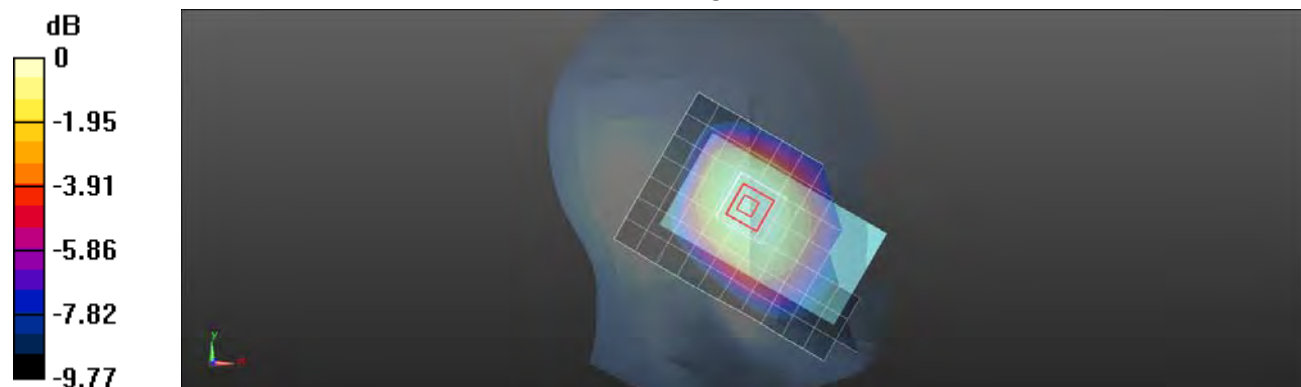
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.103 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.304 mW/g

**SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.177 mW/g**

Maximum value of SAR (measured) = 0.274 mW/g



0 dB = 0.274 mW/g = -11.24 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH190\_15mm\_GSM+headset

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.436 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

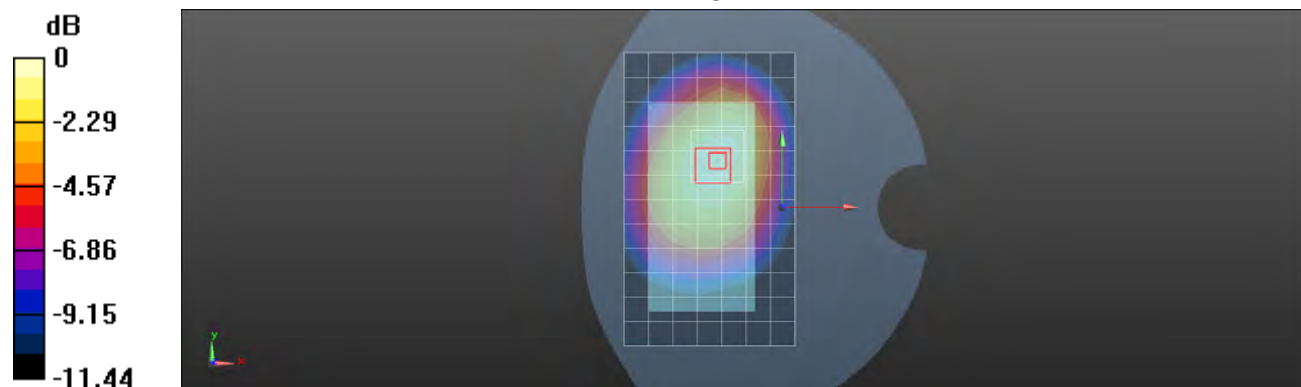
dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.803 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.505 mW/g

**SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.258 mW/g**

Maximum value of SAR (measured) = 0.440 mW/g



0 dB = 0.440 mW/g = -7.13 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH190\_15mm\_GSM+headset

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 1.001 \text{ mho/m}$ ;  $\epsilon_r = 53.455$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.519 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

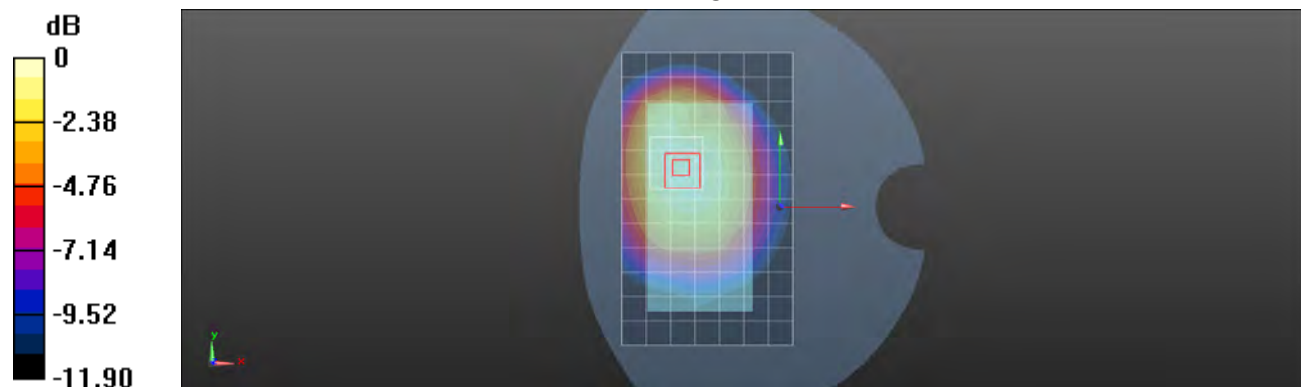
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.175 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.624 mW/g

**SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.325 mW/g**

Maximum value of SAR (measured) = 0.548 mW/g



0 dB = 0.548 mW/g = -5.22 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH128

Communication System: GPRS (Class 11); Frequency: 824.2 MHz

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 53.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.811 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

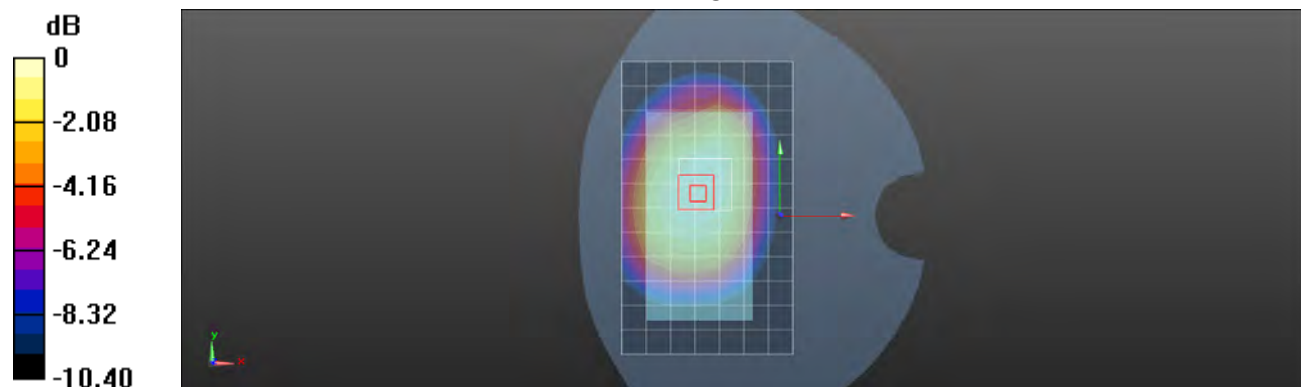
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.689 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.916 mW/g

**SAR(1 g) = 0.698 mW/g; SAR(10 g) = 0.519 mW/g**

Maximum value of SAR (measured) = 0.813 mW/g



0 dB = 0.813 mW/g = -1.80 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH190

Communication System: GPRS (Class 11); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.998 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

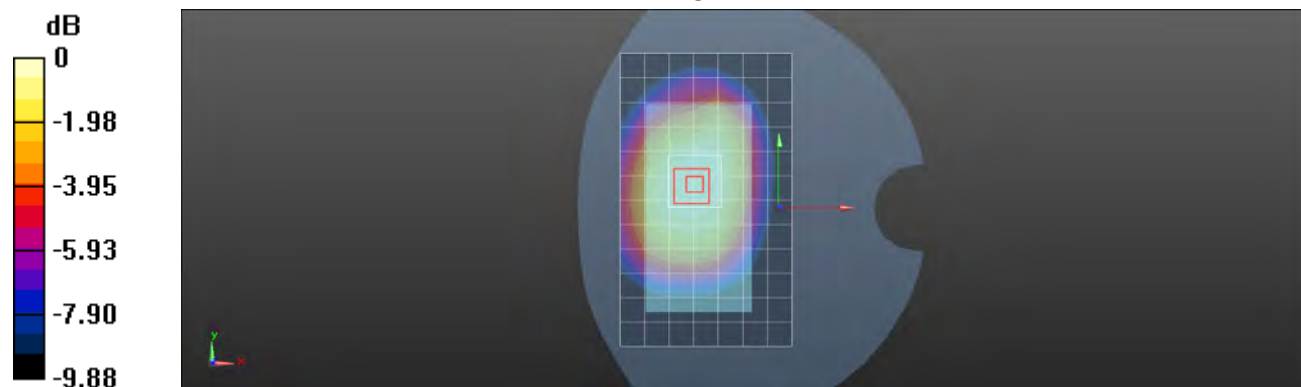
dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.787 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.125 mW/g

**SAR(1 g) = 0.854 mW/g; SAR(10 g) = 0.631 mW/g**

Maximum value of SAR (measured) = 1.00 mW/g



0 dB = 1.00 mW/g = 0.00 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH251

Communication System: GPRS (Class 11); Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.013$  mho/m;  $\epsilon_r = 53.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.12 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

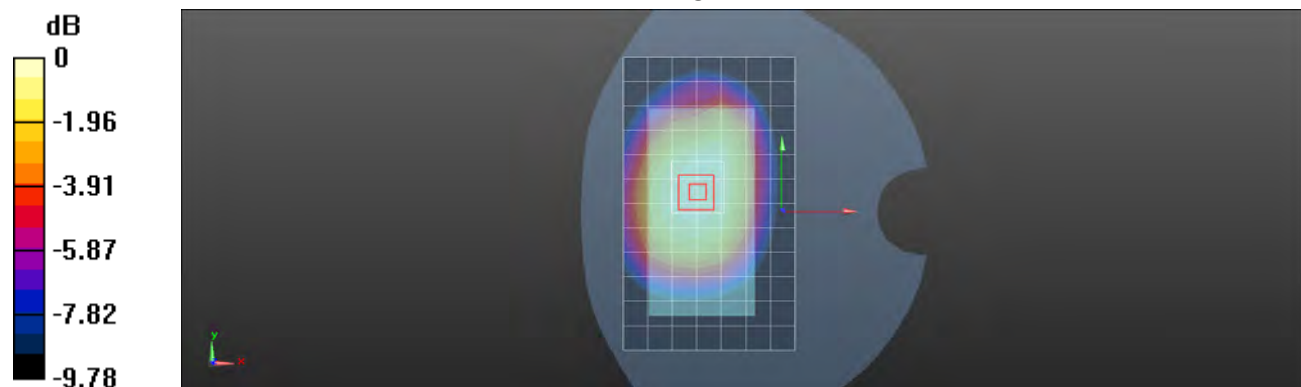
dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.522 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.274 mW/g

**SAR(1 g) = 0.973 mW/g; SAR(10 g) = 0.721 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14 mW/g = 1.14 dB mW/g

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Date: 2013/1/11

## Body-worn\_Front side\_CH251\_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 11); Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.013$  mho/m;  $\epsilon_r = 53.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.7(6848)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

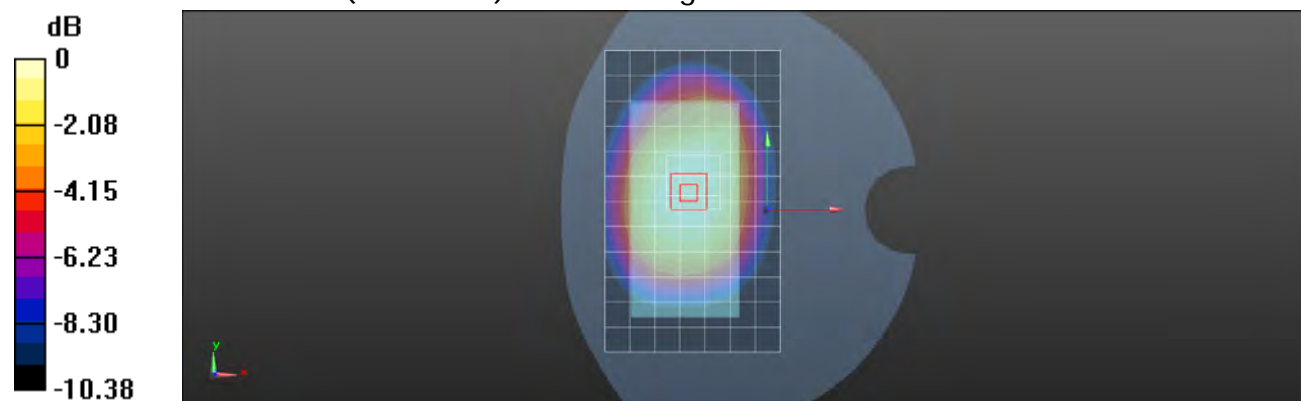
dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.628 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.20 W/kg

**SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.702 W/kg**

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



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2013/1/11

### Body-worn\_Back side\_CH128

Communication System: GPRS (Class 11); Frequency: 824.2 MHz

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.989$  mho/m;  $\epsilon_r = 53.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.978 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

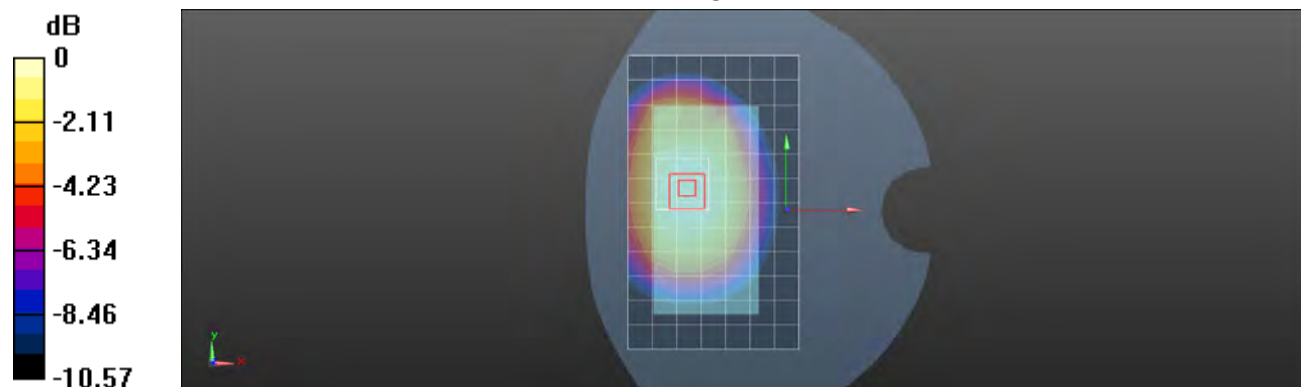
dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.651 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.110 mW/g

**SAR(1 g) = 0.844 mW/g; SAR(10 g) = 0.625 mW/g**

Maximum value of SAR (measured) = 0.989 mW/g



0 dB = 0.989 mW/g = -0.10 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH190

Communication System: GPRS (Class 11); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.01 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

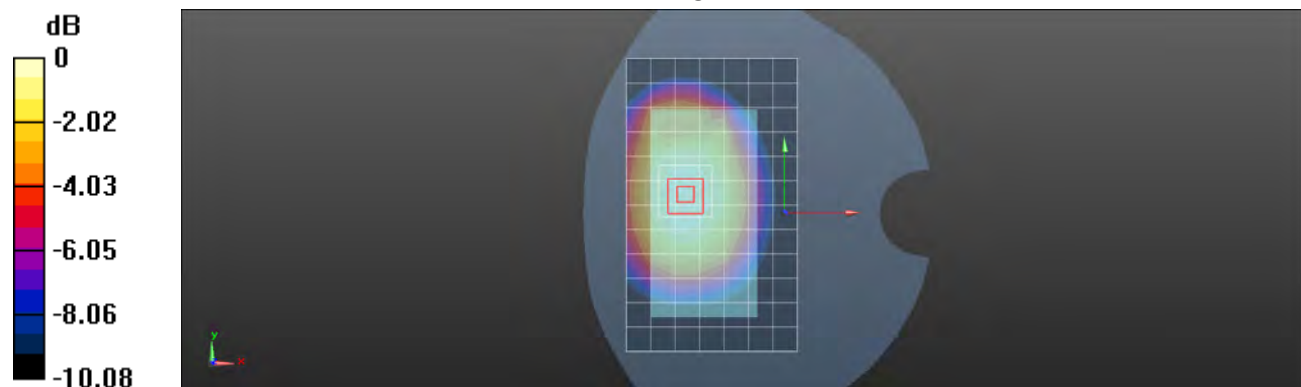
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.147 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.178 mW/g

**SAR(1 g) = 0.889 mW/g; SAR(10 g) = 0.656 mW/g**

Maximum value of SAR (measured) = 1.05 mW/g



0 dB = 1.05 mW/g = 0.42 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH251

Communication System: GPRS (Class 11); Frequency: 848.8 MHz

Medium parameters used:  $f = 849$  MHz;  $\sigma = 1.013$  mho/m;  $\epsilon_r = 53.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

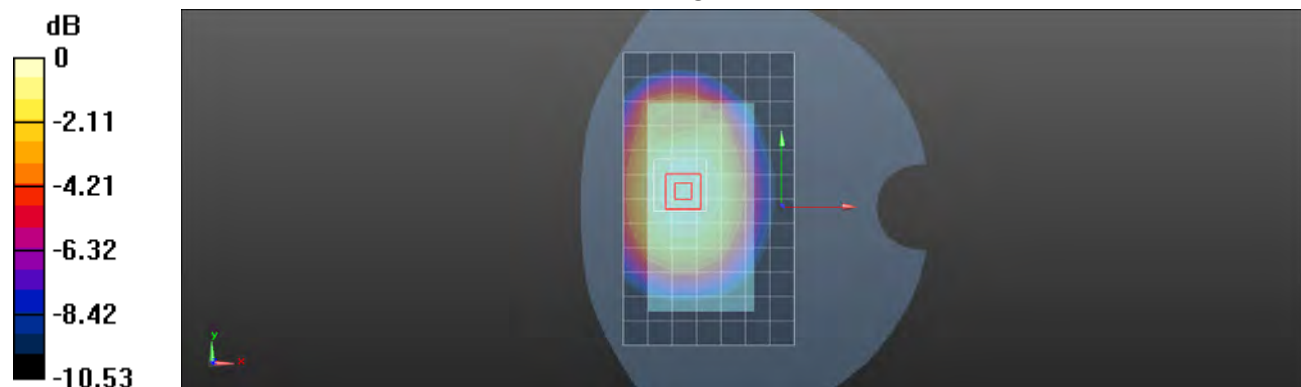
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.166 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.213 mW/g

**SAR(1 g) = 0.918 mW/g; SAR(10 g) = 0.675 mW/g**

Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08 mW/g = 0.67 dB mW/g

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Date: 2013/1/11

### Body-worn\_Bottom side\_CH190

Communication System: GPRS (Class 11); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.205 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.168 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.306 mW/g

**SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.085 mW/g**

Maximum value of SAR (measured) = 0.229 mW/g



0 dB = 0.229 mW/g = -12.80 dB mW/g

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Date: 2013/1/11

### Body-worn\_Right side\_CH190

Communication System: GPRS (Class 11); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.751 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

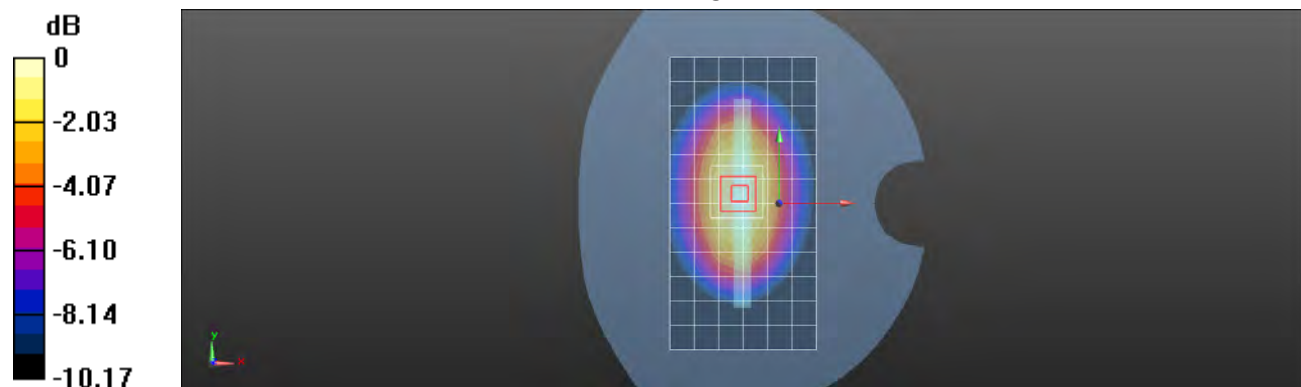
dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.739 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.892 mW/g

**SAR(1 g) = 0.614 mW/g; SAR(10 g) = 0.419 mW/g**

Maximum value of SAR (measured) = 0.761 mW/g



0 dB = 0.761 mW/g = -2.37 dB mW/g

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Date: 2013/1/11

### Body-worn\_Left side\_CH190

Communication System: GPRS (Class 11); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.866 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

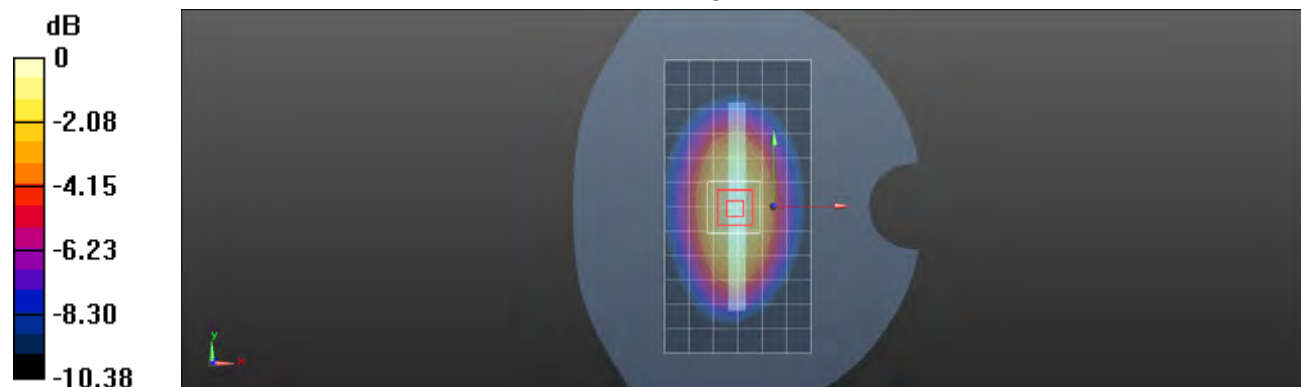
dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.143 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.989 mW/g

**SAR(1 g) = 0.680 mW/g; SAR(10 g) = 0.461 mW/g**

Maximum value of SAR (measured) = 0.844 mW/g



0 dB = 0.844 mW/g = -1.47 dB mW/g

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Date: 2013/1/13

## RE Cheek\_CH512

Communication System: GSM; Frequency: 1850.2 MHz

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.334$  mho/m;  $\epsilon_r = 40.269$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.202 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

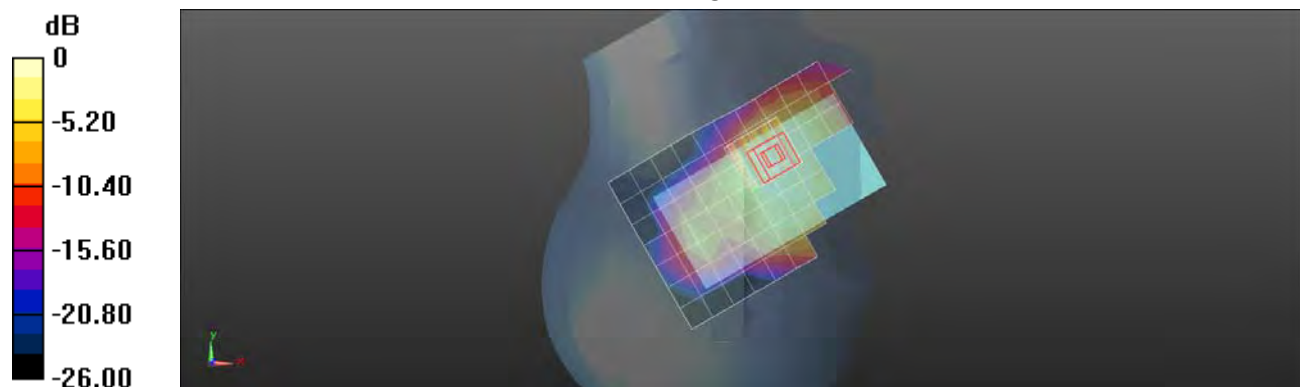
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.824 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.277 mW/g

**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.119 mW/g**

Maximum value of SAR (measured) = 0.230 mW/g



0 dB = 0.230 mW/g = -12.77 dB mW/g

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Date: 2013/1/13

## RE Cheek\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.202 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

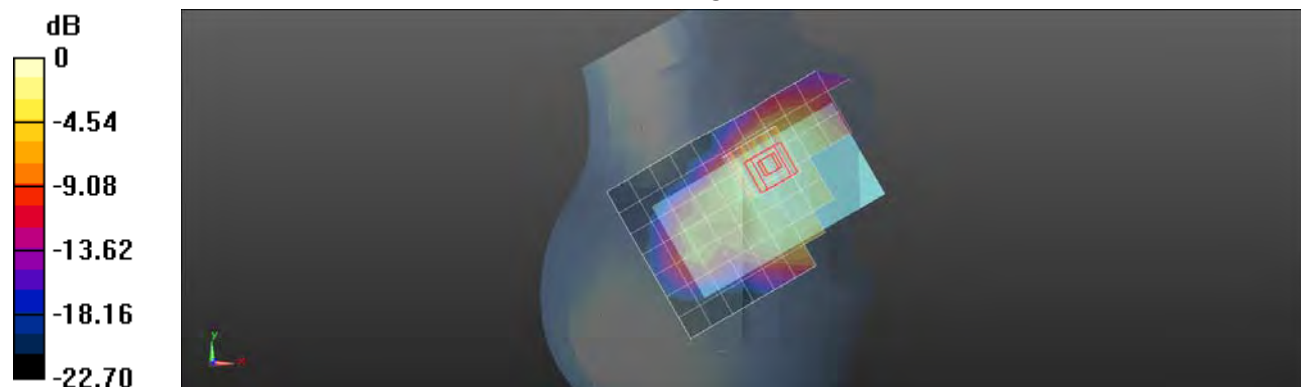
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.386 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.265 mW/g

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.115 mW/g**

Maximum value of SAR (measured) = 0.223 mW/g



0 dB = 0.223 mW/g = -13.03 dB mW/g

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Date: 2013/1/13

## RE Cheek\_CH810

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.392$  mho/m;  $\epsilon_r = 40.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.247 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

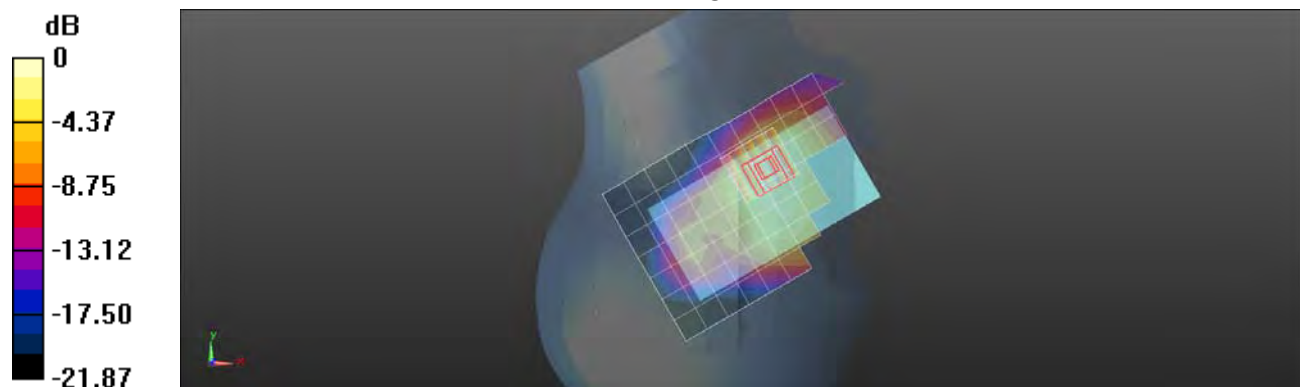
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.751 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.344 mW/g

**SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.144 mW/g**

Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287 mW/g = -10.84 dB mW/g

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Date: 2013/1/13

## RE Tilt\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.102 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

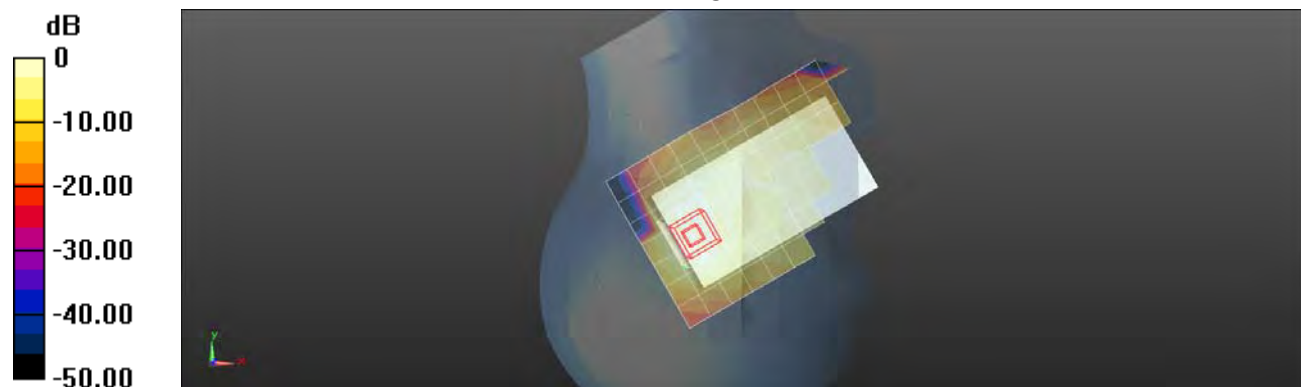
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.463 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.123 mW/g

**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.046 mW/g**

Maximum value of SAR (measured) = 0.101 mW/g



0 dB = 0.101 mW/g = -19.91 dB mW/g

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Date: 2013/1/13

## LE Cheek\_CH512

Communication System: GSM; Frequency: 1850.2 MHz

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.334$  mho/m;  $\epsilon_r = 40.269$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm.

Maximum value of SAR (measured) = 0.216 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

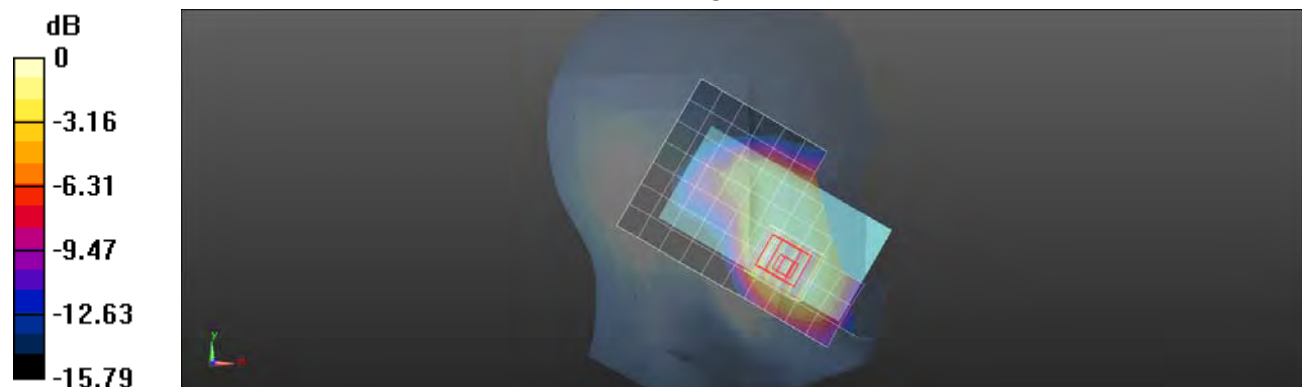
dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.954 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.257 mW/g

**SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.108 mW/g**

Maximum value of SAR (measured) = 0.207 mW/g



0 dB = 0.207 mW/g = -13.68 dB mW/g

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Date: 2013/1/13

## LE Cheek\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.231 mW/g

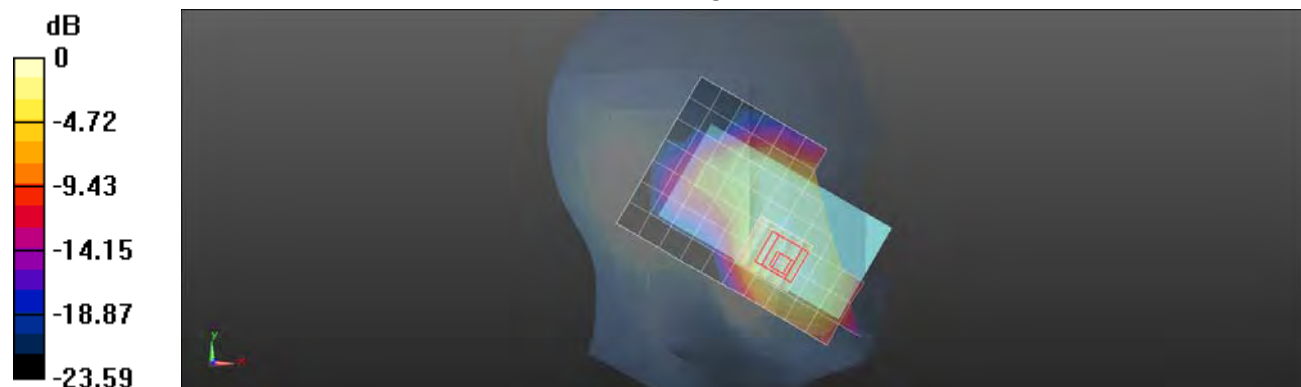
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.178 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.279 mW/g

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.114 mW/g**

Maximum value of SAR (measured) = 0.222 mW/g



0 dB = 0.222 mW/g = -13.07 dB mW/g

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Date: 2013/1/13

## LE Cheek\_CH810

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.392$  mho/m;  $\epsilon_r = 40.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.295 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

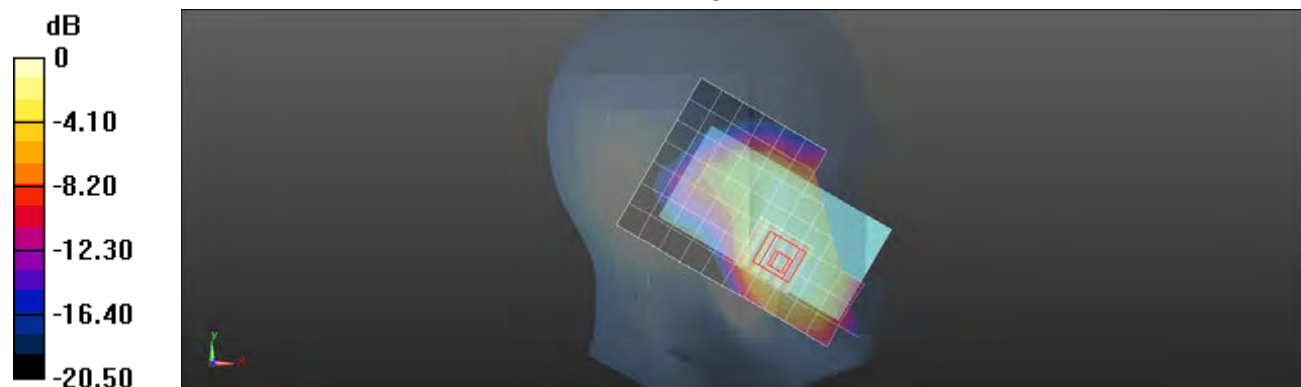
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.918 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.357 mW/g

**SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.145 mW/g**

Maximum value of SAR (measured) = 0.286 mW/g



0 dB = 0.286 mW/g = -10.87 dB mW/g

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Date: 2013/1/13

## LE Tilt\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0970 mW/g

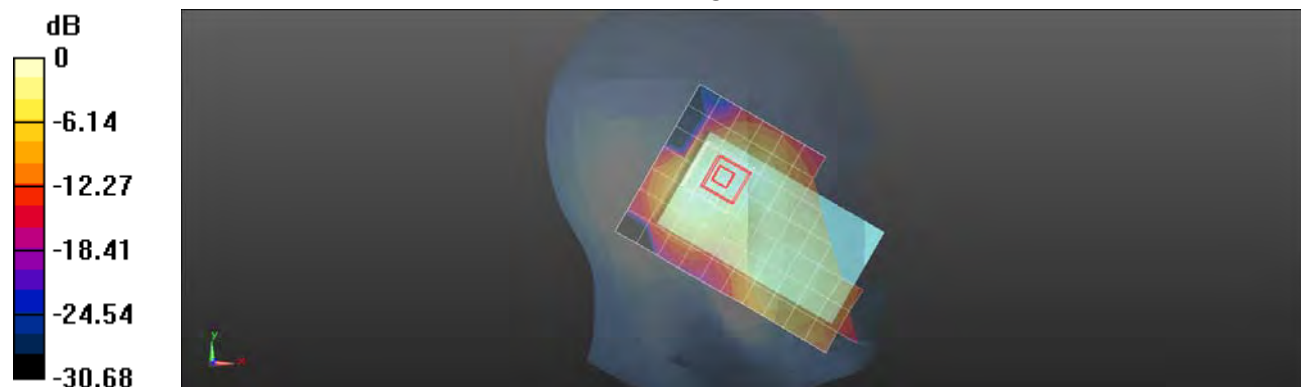
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.421 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.124 mW/g

**SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.051 mW/g.**

Maximum value of SAR (measured) = 0.103 mW/g



0 dB = 0.103 mW/g = -19.74 dB mW/g

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Date: 2013/1/13

### Body-worn\_Front side\_CH661\_15mm\_GSM+headset

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.225 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

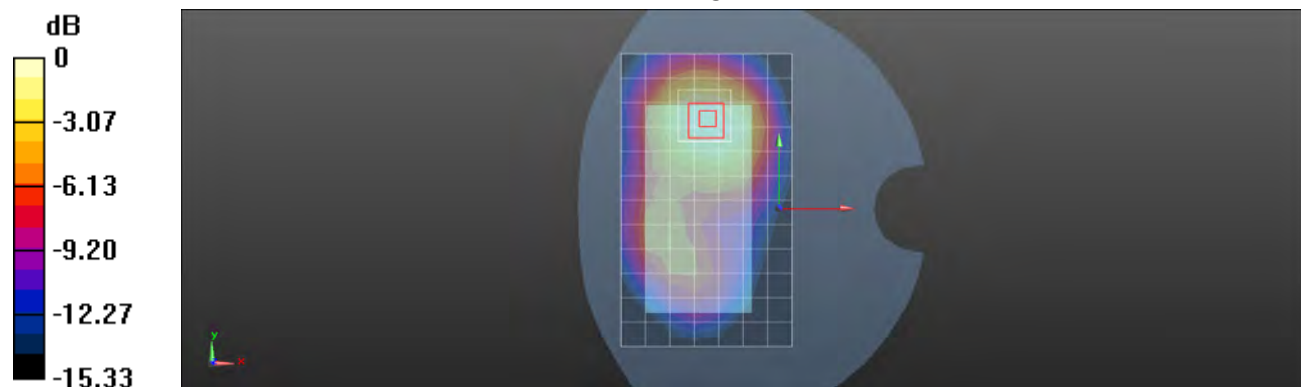
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.401 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.286 mW/g

**SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.117 mW/g**

Maximum value of SAR (measured) = 0.236 mW/g



0 dB = 0.236 mW/g = -12.54 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH661\_15mm\_GSM+headset

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.311 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

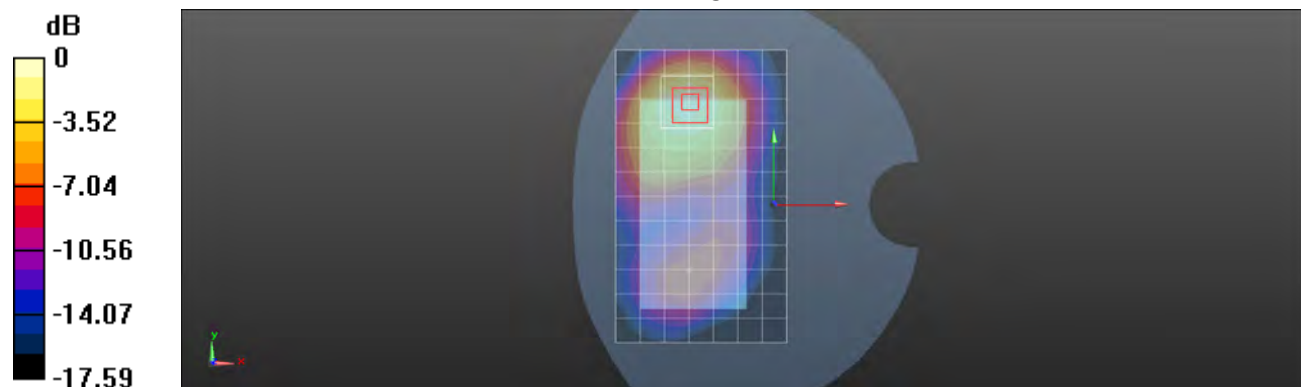
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 4.285 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.379 mW/g

**SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.315 mW/g



0 dB = 0.315 mW/g = -10.03 dB mW/g

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Date: 2013/1/13

### Body-worn\_Front side\_CH661

Communication System: GPRS (Class 11); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.625 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

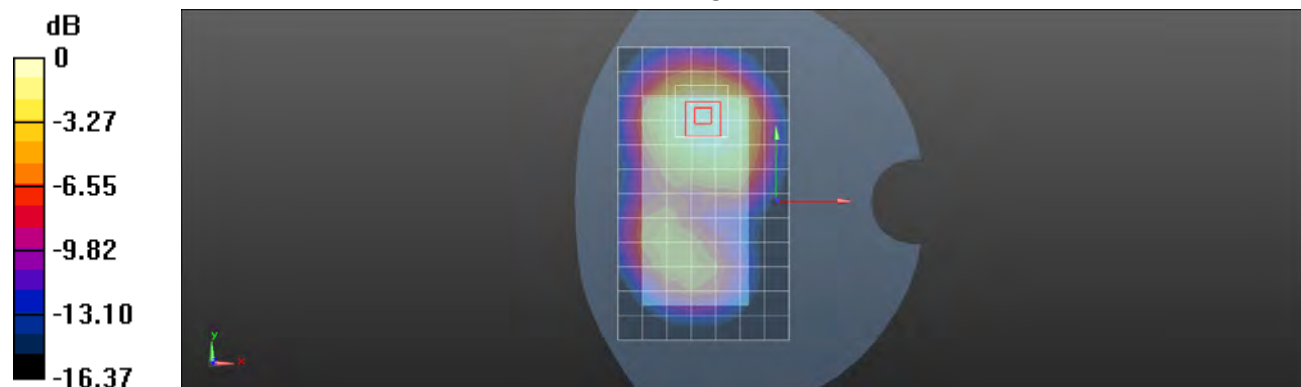
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.178 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.773 mW/g

**SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.323 mW/g**

Maximum value of SAR (measured) = 0.638 mW/g



0 dB = 0.638 mW/g = -3.90 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH661

Communication System: GPRS (Class 11); Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.948 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

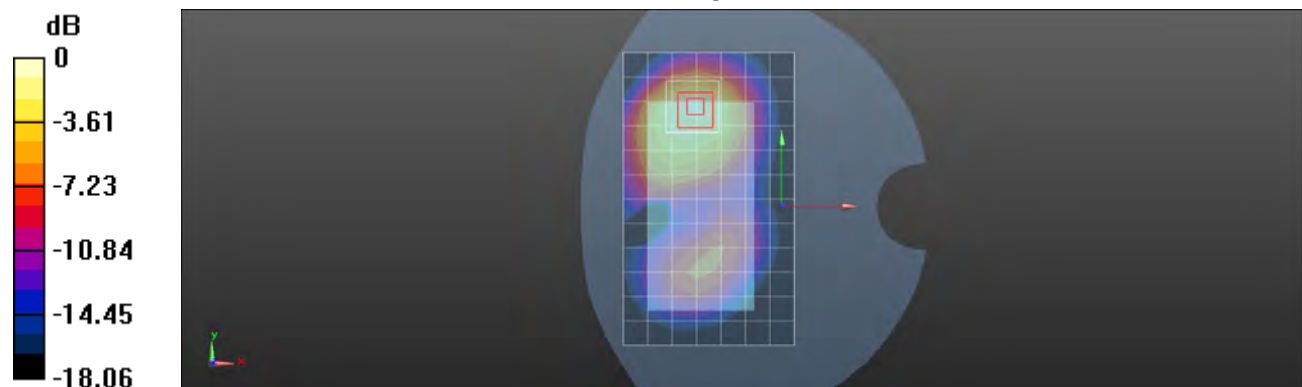
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.389 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.180 mW/g

**SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.442 mW/g**

Maximum value of SAR (measured) = 0.980 mW/g



0 dB = 0.980 mW/g = -0.18 dB mW/g

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH512

Communication System: GPRS (Class 11); Frequency: 1850.2 MHz

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.482$  mho/m;  $\epsilon_r = 51.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.896 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

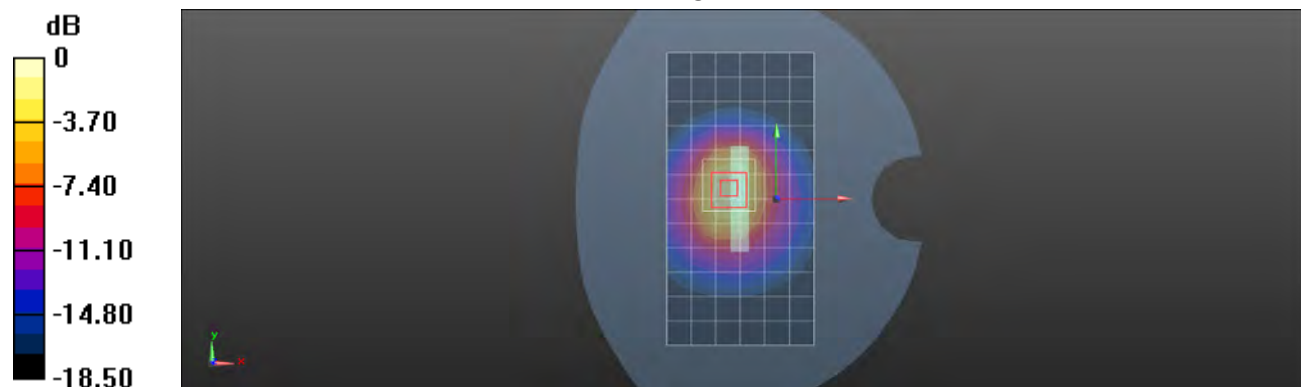
dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.459 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.486 mW/g

**SAR(1 g) = 0.880 mW/g; SAR(10 g) = 0.492 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



0 dB = 1.20 mW/g = 1.58 dB mW/g

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Date: 2013/1/13

## Body-worn\_Bottom side\_CH512\_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 11); Frequency: 1850.2 MHz

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.482$  mho/m;  $\epsilon_r = 51.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.7(6848)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.914 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

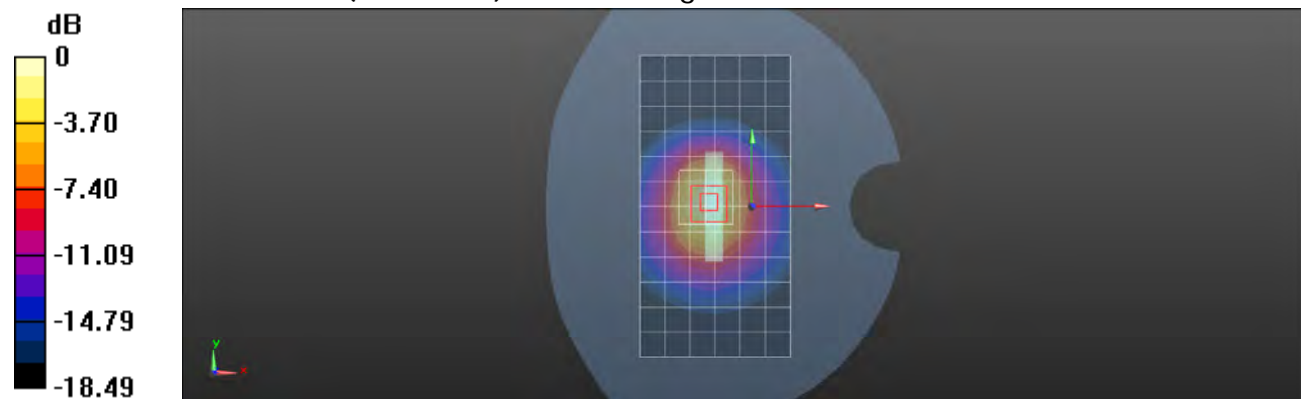
dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.532 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.475 W/kg**

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH661

Communication System: GPRS (Class 11); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.854 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

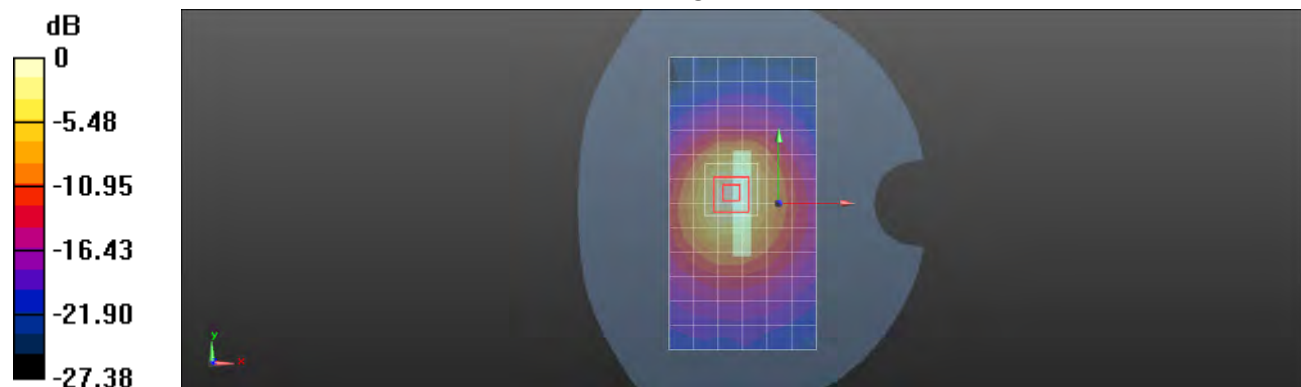
dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.682 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.378 mW/g

**SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.465 mW/g**

Maximum value of SAR (measured) = 1.13 mW/g



0 dB = 1.13 mW/g = 1.06 dB mW/g

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH810

Communication System: GPRS (Class 11); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.546$  mho/m;  $\epsilon_r = 51.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.892 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

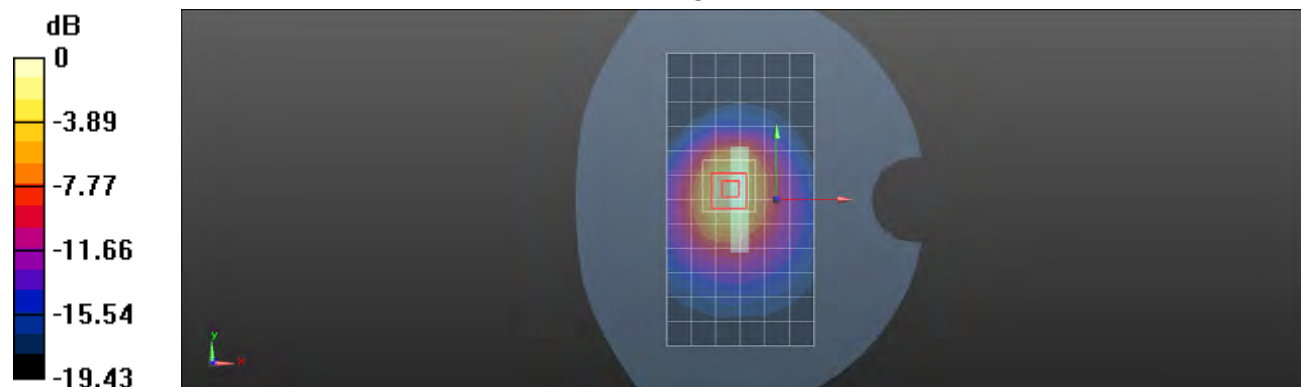
dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.129 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.481 mW/g

**SAR(1 g) = 0.871 mW/g; SAR(10 g) = 0.481 mW/g**

Maximum value of SAR (measured) = 1.19 mW/g



0 dB = 1.19 mW/g = 1.51 dB mW/g

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Date: 2013/1/13

### Body-worn\_Right side\_CH661

Communication System: GPRS (Class 11); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0848 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

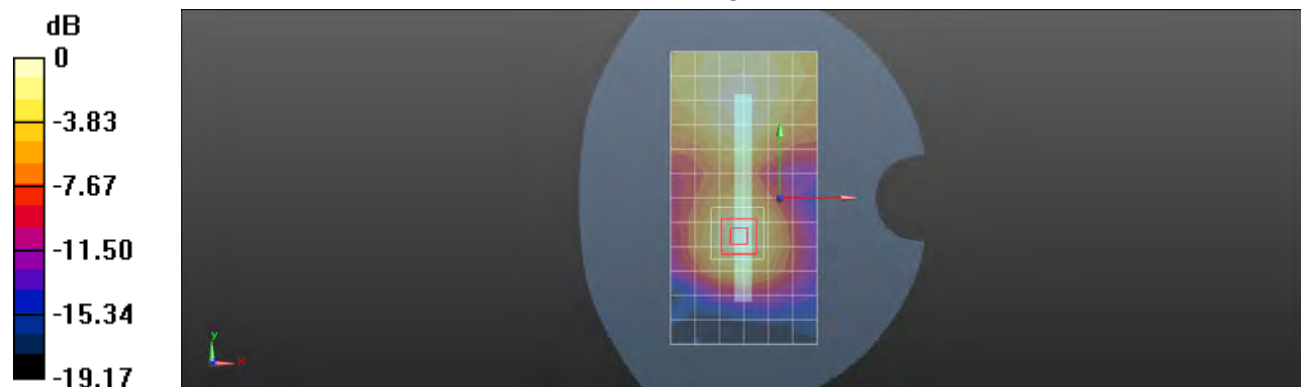
dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.806 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.116 mW/g

**SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.0928 mW/g



0 dB = 0.0928 mW/g = -20.65 dB mW/g

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Date: 2013/1/13

### Body-worn\_Left side\_CH661

Communication System: GPRS (Class 11); Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.245 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

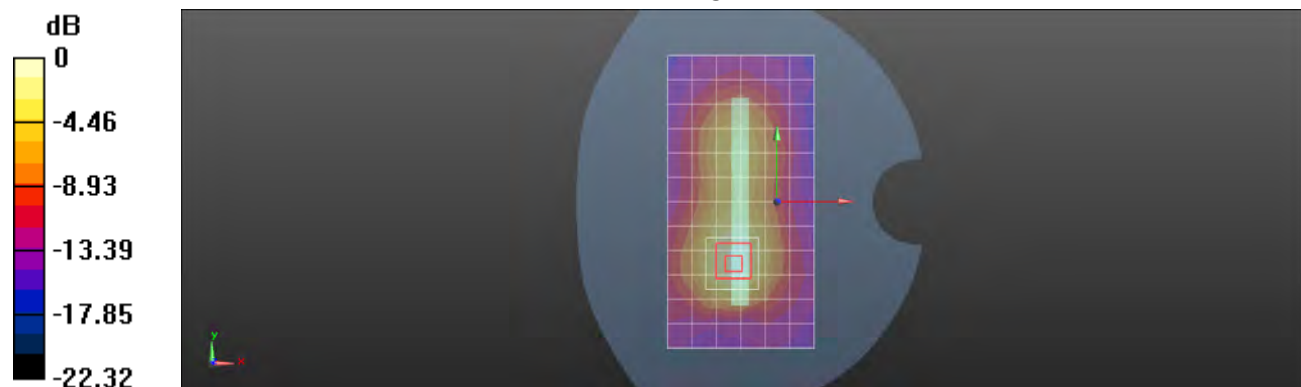
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.998 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.352 mW/g

**SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.121 mW/g**

Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.285 mW/g = -10.90 dB mW/g

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Date: 2013/1/13

## RE Cheek\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DAS52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.561 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

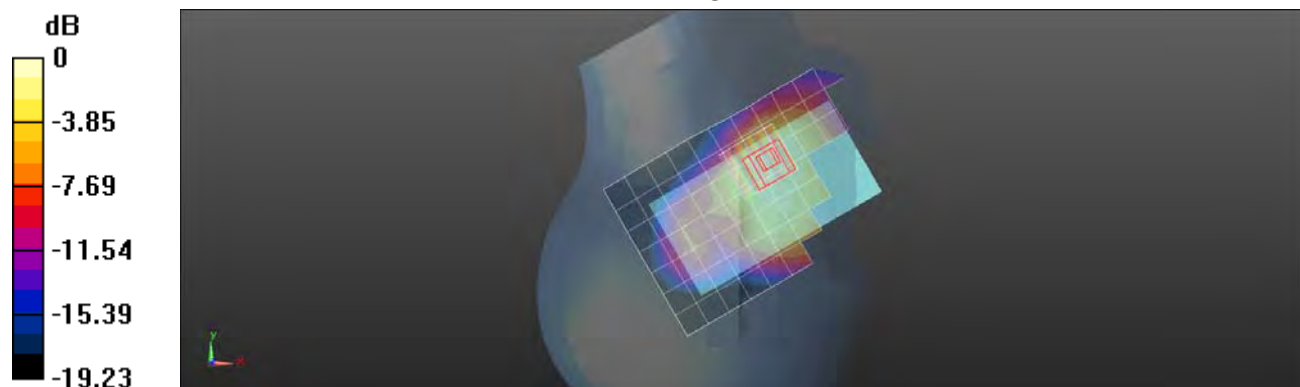
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.883 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.734 mW/g

**SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.326 mW/g**

Maximum value of SAR (measured) = 0.613 mW/g



0 dB = 0.613 mW/g = -4.25 dB mW/g

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Date: 2013/1/13

## RE Tilt\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.258 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

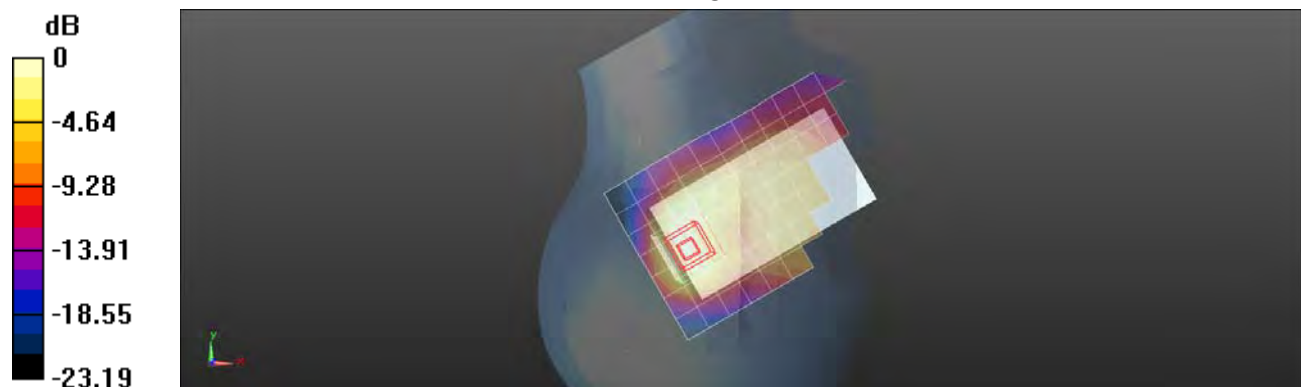
dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.482 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.337 mW/g

**SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.129 mW/g**

Maximum value of SAR (measured) = 0.278 mW/g



0 dB = 0.278 mW/g = -11.12 dB mW/g

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Date: 2013/1/13

## LE Cheek\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.336$  mho/m;  $\epsilon_r = 40.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.656 mW/g

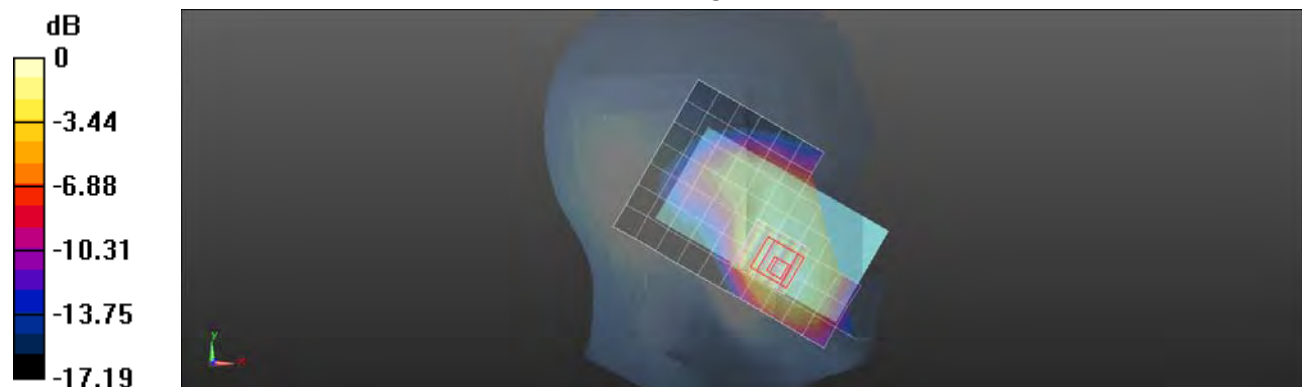
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.822 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.825 mW/g

**SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.336 mW/g**

Maximum value of SAR (measured) = 0.671 mW/g



0 dB = 0.671 mW/g = -3.47 dB mW/g

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Date: 2013/1/13

## LE Cheek\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.673 mW/g

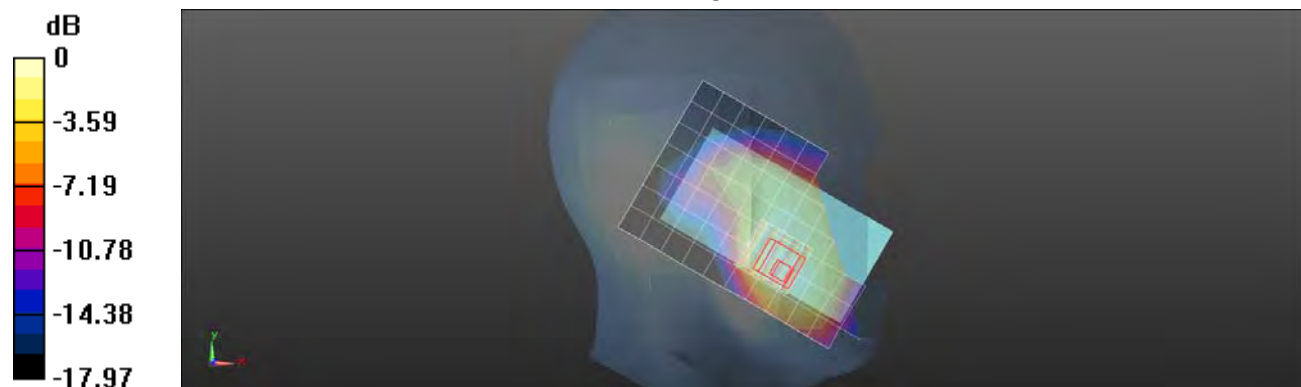
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.853 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.858 mW/g

**SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.349 mW/g**

Maximum value of SAR (measured) = 0.707 mW/g



0 dB = 0.707 mW/g = -3.01 dB mW/g

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Date: 2013/1/13

### LE Cheek\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used:  $f = 1908 \text{ MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 40.109$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.679 mW/g

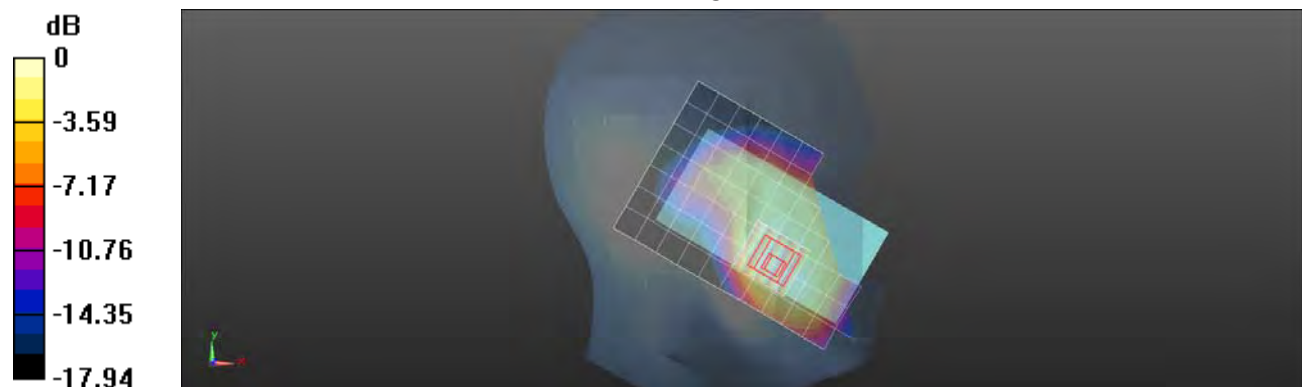
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.112 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.852 mW/g

**SAR(1 g) = 0.544 mW/g; SAR(10 g) = 0.342 mW/g**

Maximum value of SAR (measured) = 0.670 mW/g



0 dB = 0.670 mW/g = -3.48 dB mW/g

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Date: 2013/1/13

## LE Tilt\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.363$  mho/m;  $\epsilon_r = 40.199$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.271 mW/g

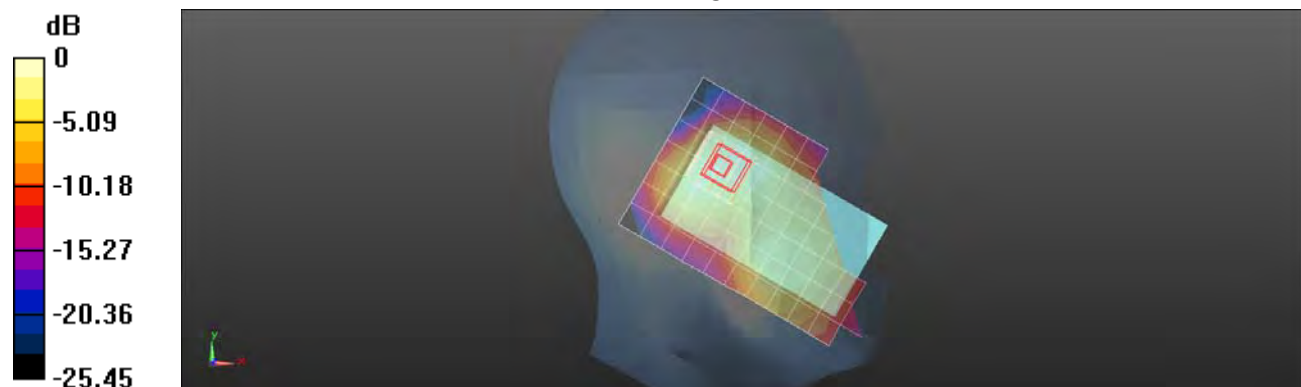
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.008 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.337 mW/g

**SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.143 mW/g**

Maximum value of SAR (measured) = 0.283 mW/g



0 dB = 0.283 mW/g = -10.96 dB mW/g

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Date: 2013/1/13

### Body-worn\_Front side\_CH9400\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.572 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

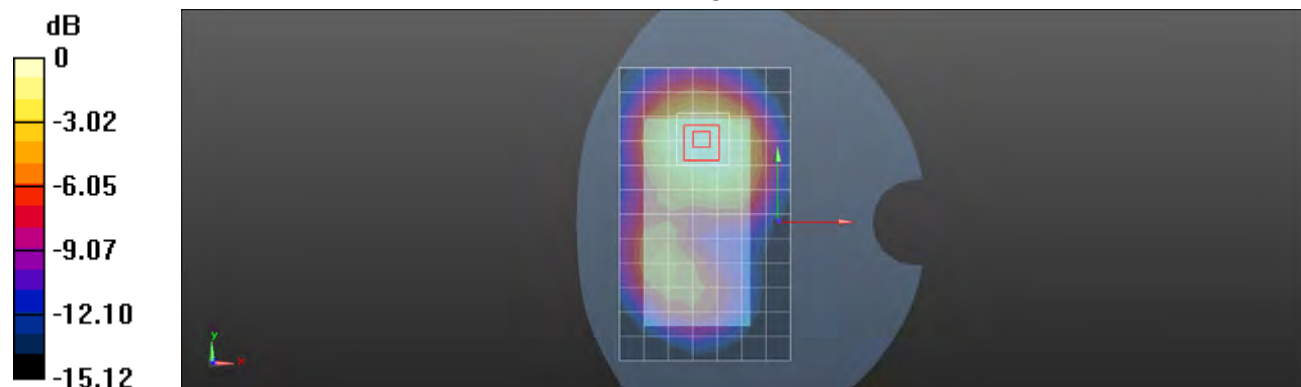
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.558 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.712 mW/g

**SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.296 mW/g**

Maximum value of SAR (measured) = 0.593 mW/g



0 dB = 0.593 mW/g = -4.54 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH9400\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.676 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

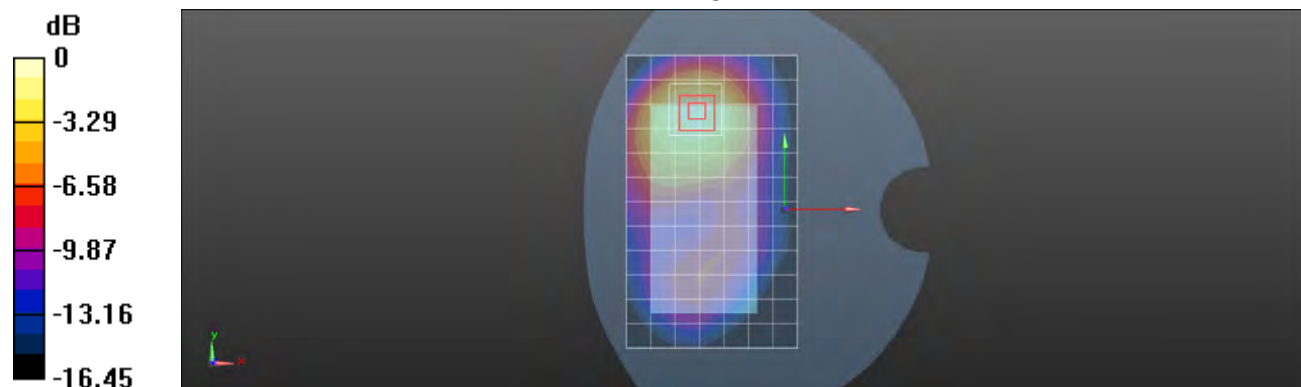
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.903 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.852 mW/g

**SAR(1 g) = 0.543 mW/g; SAR(10 g) = 0.332 mW/g**

Maximum value of SAR (measured) = 0.708 mW/g



0 dB = 0.708 mW/g = -3.00 dB mW/g

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Date: 2013/1/13

### Body-worn\_Front side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.929 mW/g

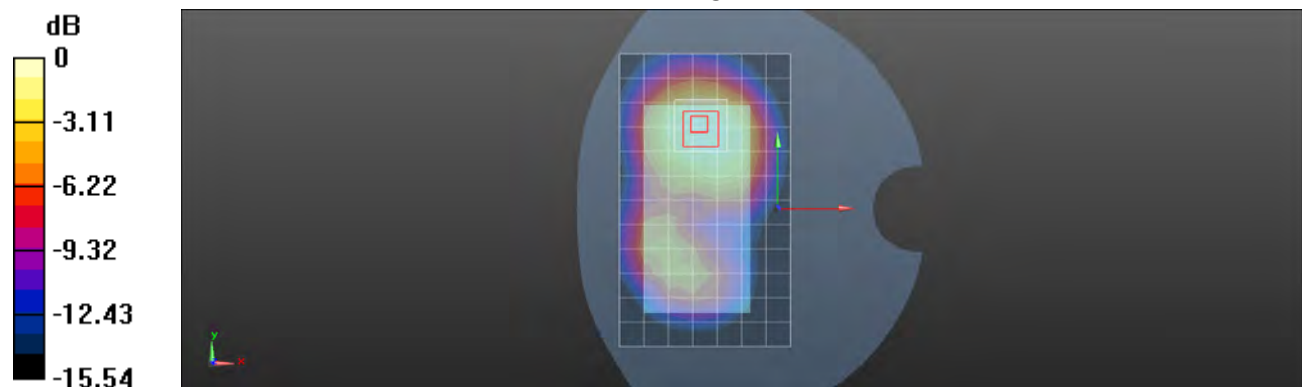
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.021 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.151 mW/g

**SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.485 mW/g**

Maximum value of SAR (measured) = 0.948 mW/g



0 dB = 0.948 mW/g = -0.46 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.484 \text{ mho/m}$ ;  $\epsilon_r = 51.461$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.23 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

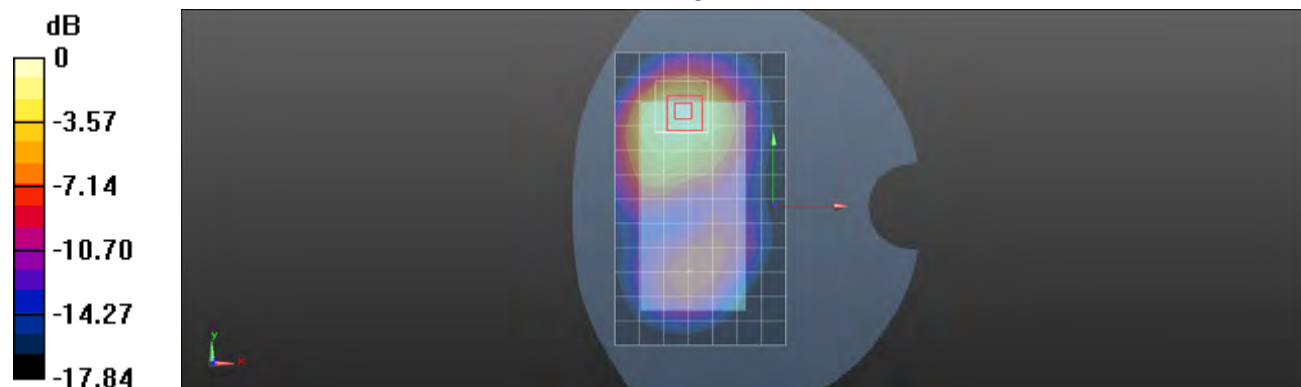
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.174 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.725 mW/g

**SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.650 mW/g**

Maximum value of SAR (measured) = 1.40 mW/g



0 dB = 1.40 mW/g = 2.92 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.26 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

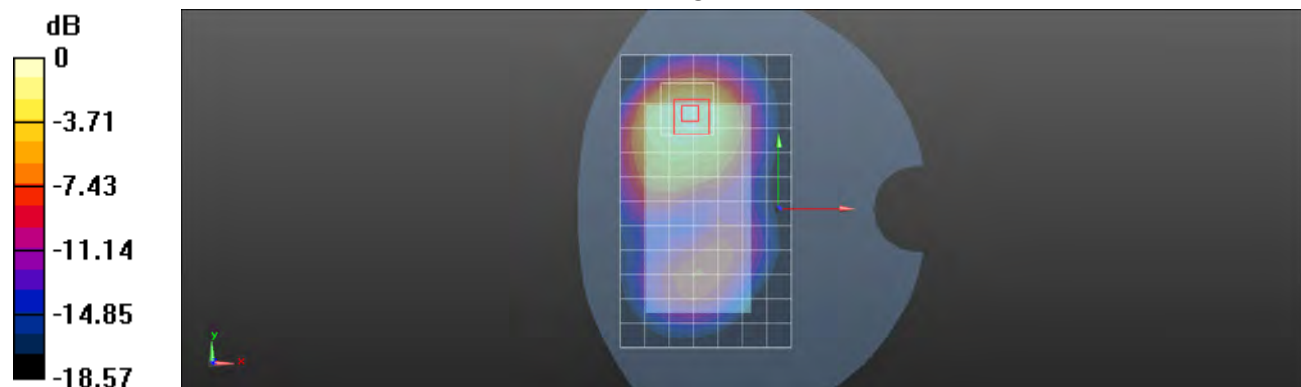
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.730 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.798 mW/g

**SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.668 mW/g**

Maximum value of SAR (measured) = 1.46 mW/g



0 dB = 1.46 mW/g = 3.29 dB mW/g

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Date: 2013/1/13

### Body-worn\_Back side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.544$  mho/m;  $\epsilon_r = 51.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.22 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

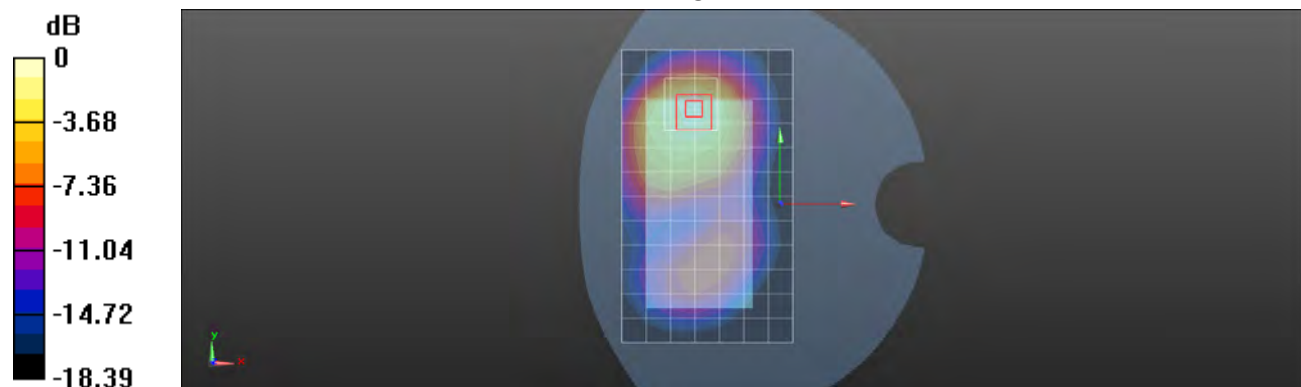
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.132 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.689 mW/g

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.623 mW/g**

Maximum value of SAR (measured) = 1.36 mW/g



0 dB = 1.36 mW/g = 2.67 dB mW/g

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used:  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.484 \text{ mho/m}$ ;  $\epsilon_r = 51.461$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.54 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 28.816 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.008 mW/g

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.675 mW/g**

Maximum value of SAR (measured) = 1.60 mW/g



0 dB = 1.60 mW/g = 4.08 dB mW/g

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Date: 2013/1/13

## Body-worn\_Bottom side\_CH9262\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used:  $f = 1852.4$  MHz;  $\sigma = 1.484$  mho/m;  $\epsilon_r = 51.461$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.7(6848)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.42 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

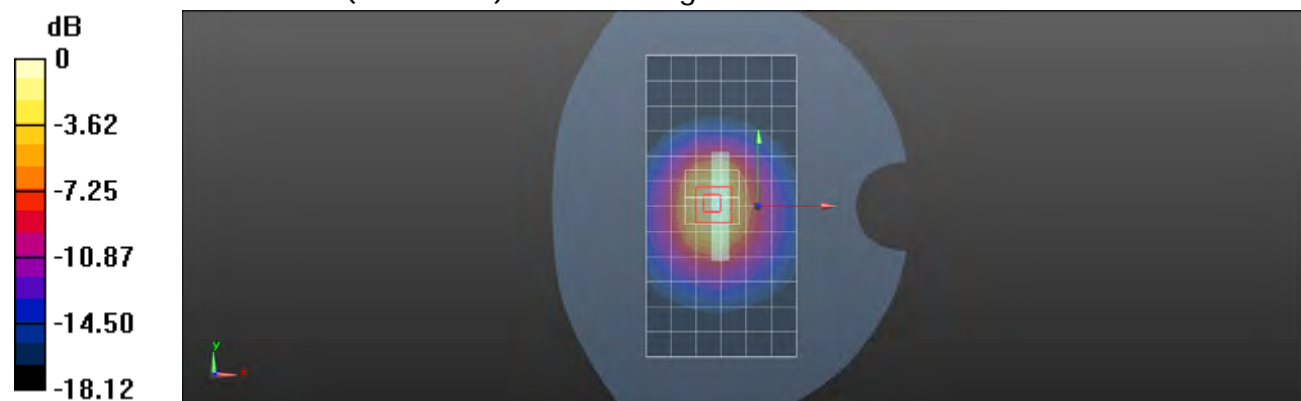
dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.432 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.94 W/kg

**SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.649 W/kg**

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.73 dBW/kg

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.48 mW/g

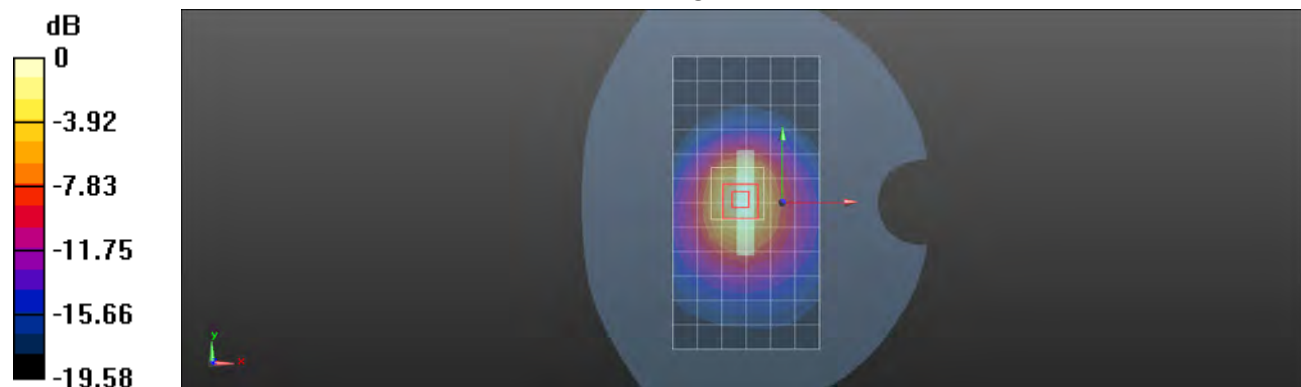
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.523 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.986 mW/g

**SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.660 mW/g**

Maximum value of SAR (measured) = 1.55 mW/g



0 dB = 1.55 mW/g = 3.81 dB mW/g

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Date: 2013/1/13

### Body-worn\_Bottom side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.544$  mho/m;  $\epsilon_r = 51.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.42 mW/g

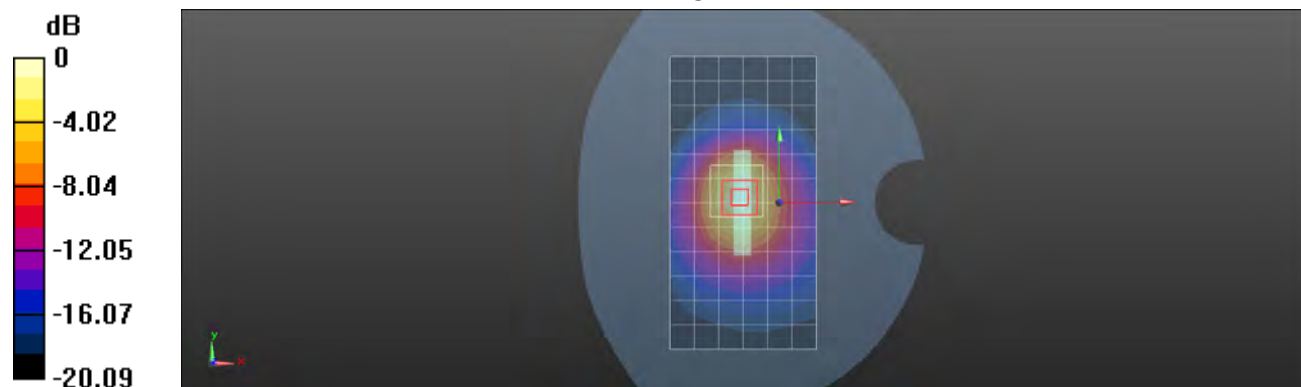
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.451 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.843 mW/g

**SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.598 mW/g**

Maximum value of SAR (measured) = 1.46 mW/g



0 dB = 1.46 mW/g = 3.29 dB mW/g

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Date: 2013/1/13

### Body-worn\_Right side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.514 \text{ mho/m}$ ;  $\epsilon_r = 51.361$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.161 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

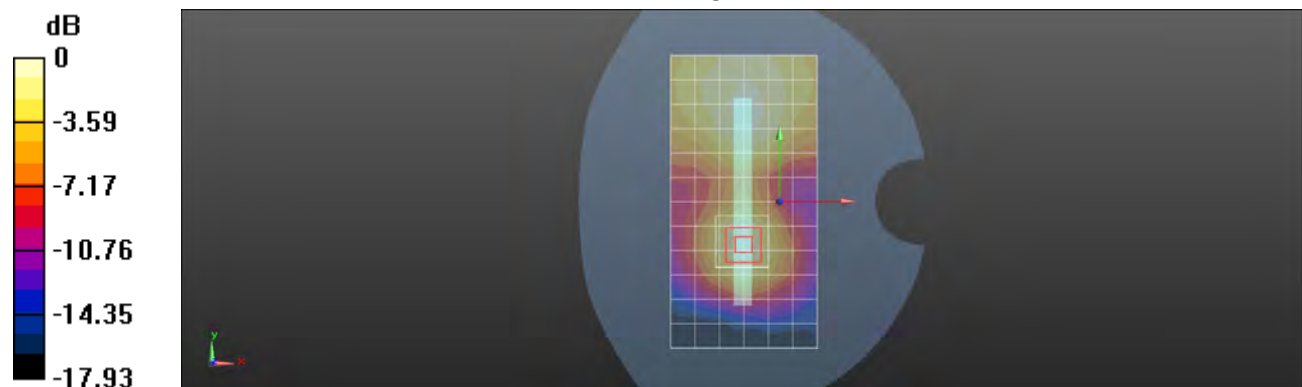
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 6.362 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.196 mW/g

**SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.159 mW/g



0 dB = 0.159 mW/g = -15.97 dB mW/g

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Date: 2013/1/13

### Body-worn\_Left side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.514$  mho/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.506 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

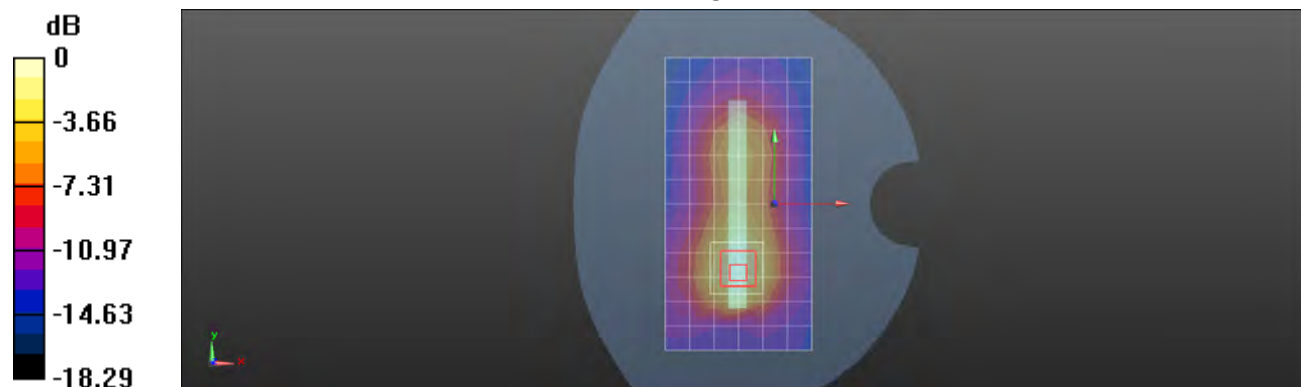
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.173 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.627 mW/g

**SAR(1 g) = 0.380 mW/g; SAR(10 g) = 0.219 mW/g**

Maximum value of SAR (measured) = 0.502 mW/g



0 dB = 0.502 mW/g = -5.99 dB mW/g

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Date: 2013/1/12

## RE Cheek\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.338$  mho/m;  $\epsilon_r = 41.513$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.624 mW/g

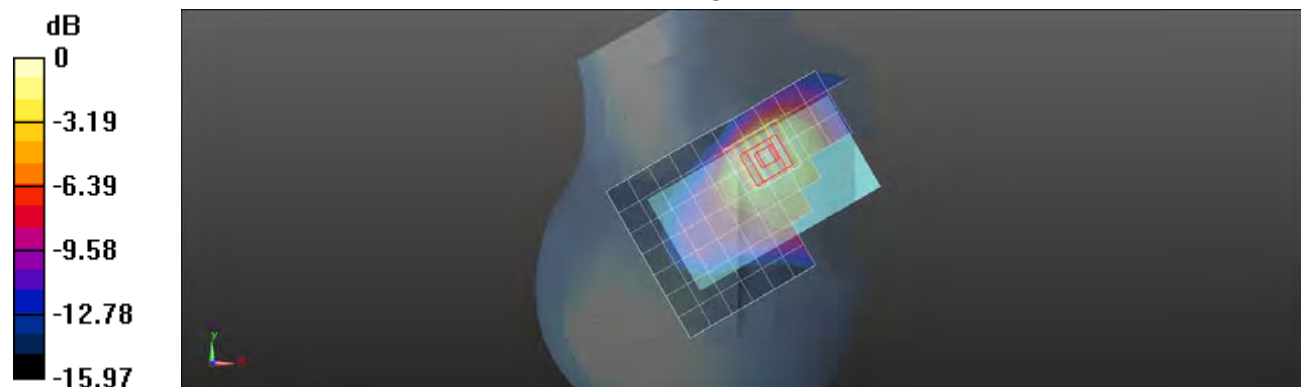
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.587 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.791 mW/g

**SAR(1 g) = 0.524 mW/g; SAR(10 g) = 0.331 mW/g**

Maximum value of SAR (measured) = 0.673 mW/g



0 dB = 0.673 mW/g = -3.44 dB mW/g

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Date: 2013/1/12

## RE Cheek\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.356$  mho/m;  $\epsilon_r = 41.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.505 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

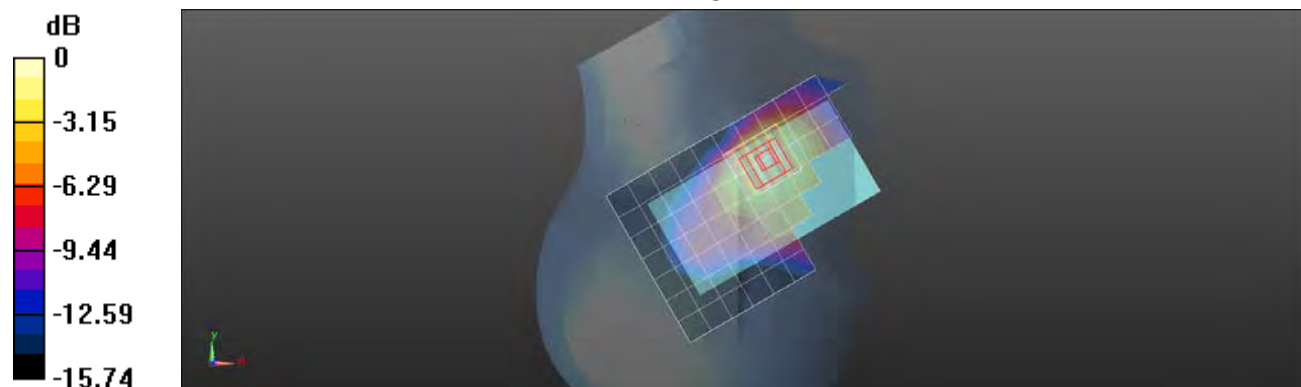
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.234 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.634 mW/g

**SAR(1 g) = 0.423 mW/g; SAR(10 g) = 0.268 mW/g**

Maximum value of SAR (measured) = 0.537 mW/g



0 dB = 0.537 mW/g = -5.40 dB mW/g

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Date: 2013/1/12

## RE Cheek\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.374$  mho/m;  $\epsilon_r = 41.413$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.708 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

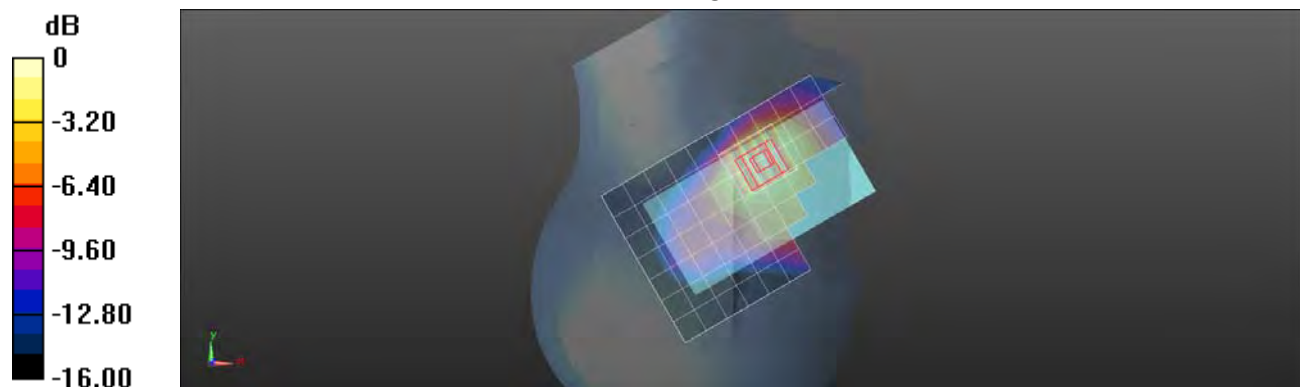
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.872 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.912 mW/g

**SAR(1 g) = 0.600 mW/g; SAR(10 g) = 0.376 mW/g**

Maximum value of SAR (measured) = 0.769 mW/g



0 dB = 0.769 mW/g = -2.28 dB mW/g

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Date: 2013/1/12

## RE Tilt\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.356$  mho/m;  $\epsilon_r = 41.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.166 mW/g

**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

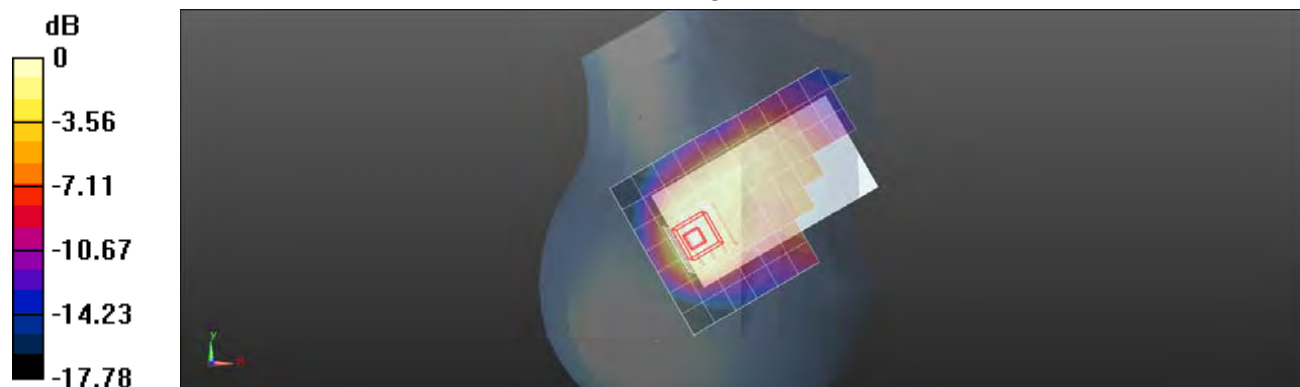
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.249 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.218 mW/g

**SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.174 mW/g



0 dB = 0.174 mW/g = -15.19 dB mW/g

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Date: 2013/1/12

## LE Cheek\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.356$  mho/m;  $\epsilon_r = 41.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.521 mW/g

**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

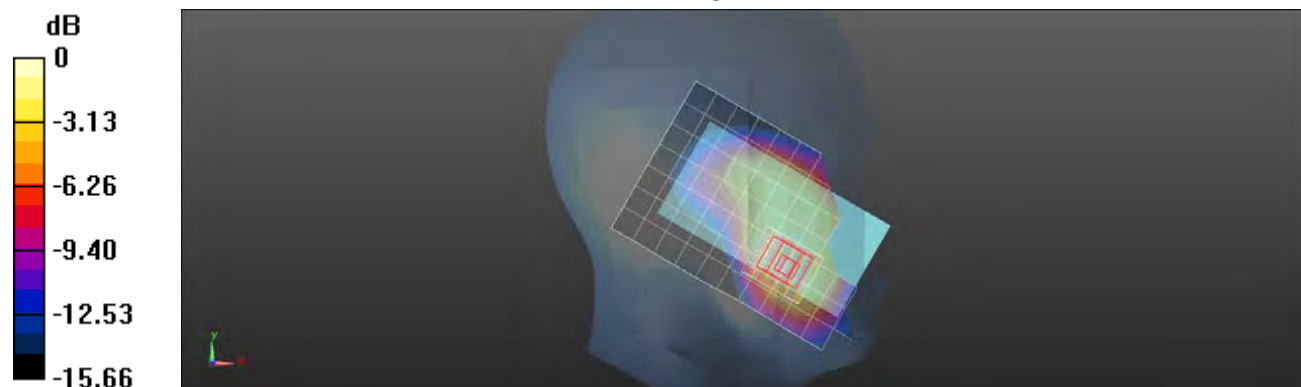
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.594 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.658 mW/g

**SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.260 mW/g**

Maximum value of SAR (measured) = 0.547 mW/g



0 dB = 0.547 mW/g = -5.24 dB mW/g

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Date: 2013/1/12

## LE Tilt\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.356$  mho/m;  $\epsilon_r = 41.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.174 mW/g

**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

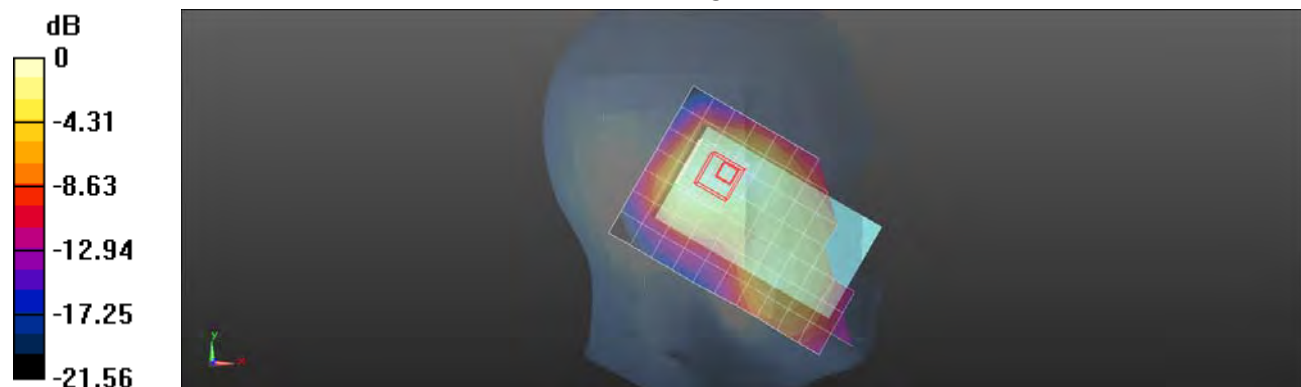
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.957 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.221 mW/g

**SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.096 mW/g**

Maximum value of SAR (measured) = 0.189 mW/g



0 dB = 0.189 mW/g = -14.47 dB mW/g

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Date: 2013/1/12

### Body-worn\_Front side\_CH1412\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.456 \text{ mho/m}$ ;  $\epsilon_r = 53.083$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.355 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

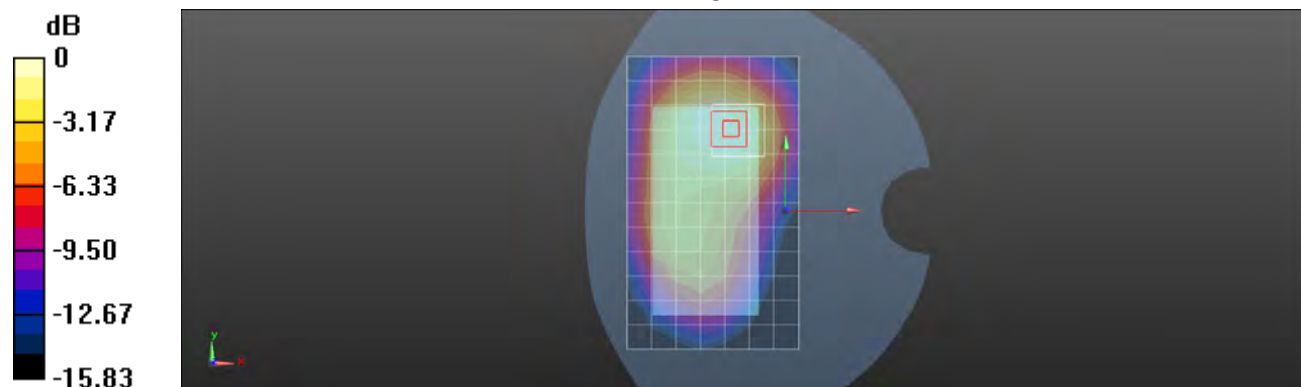
dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.672 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.449 mW/g

**SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.184 mW/g**

Maximum value of SAR (measured) = 0.365 mW/g



0 dB = 0.365 mW/g = -8.75 dB mW/g

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Date: 2013/1/12

### Body-worn\_Back side\_CH1412\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.456$  mho/m;  $\epsilon_r = 53.083$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.472 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

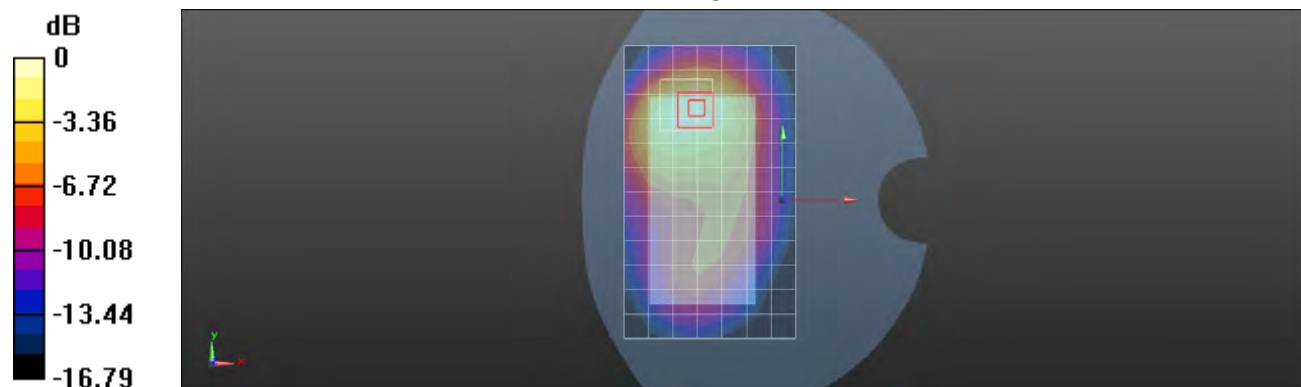
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.076 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.632 mW/g

**SAR(1 g) = 0.418 mW/g; SAR(10 g) = 0.262 mW/g**

Maximum value of SAR (measured) = 0.532 mW/g



0 dB = 0.532 mW/g = -5.48 dB mW/g

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Date: 2013/1/12

### Body-worn\_Front side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.456 \text{ mho/m}$ ;  $\epsilon_r = 53.083$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.673 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

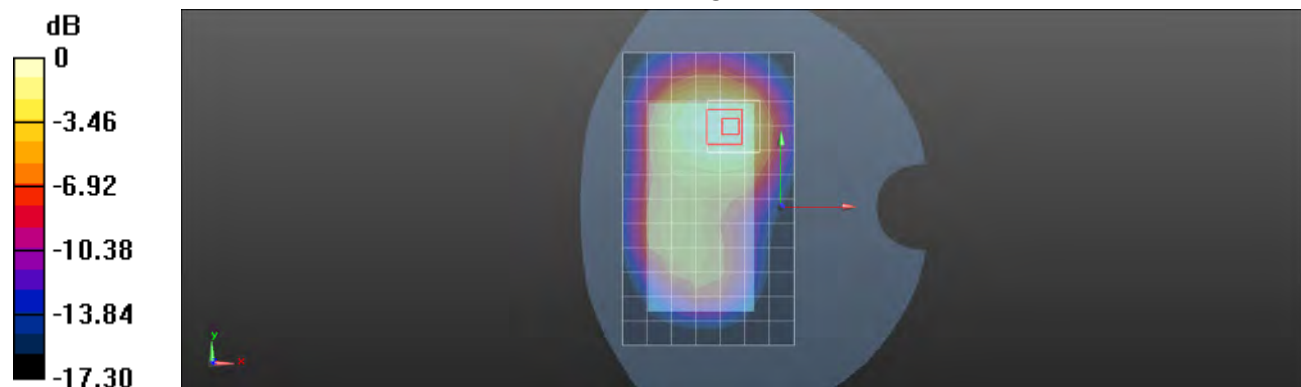
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.536 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.888 mW/g

**SAR(1 g) = 0.554 mW/g; SAR(10 g) = 0.349 mW/g**

Maximum value of SAR (measured) = 0.724 mW/g



0 dB = 0.724 mW/g = -2.81 dB mW/g

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Date: 2013/1/12

### Body-worn\_Back side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.456$  mho/m;  $\epsilon_r = 53.083$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.898 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

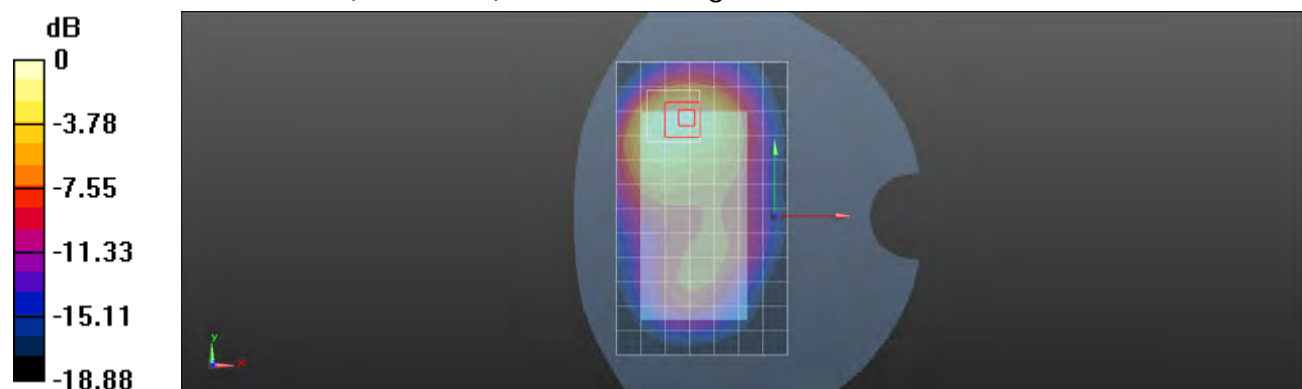
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.392 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.152 mW/g

**SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.450 mW/g**

Maximum value of SAR (measured) = 0.983 mW/g



0 dB = 0.983 mW/g = -0.15 dB mW/g

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Date: 2013/1/12

### Body-worn\_Bottom side\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used:  $f = 1712.4$  MHz;  $\sigma = 1.436$  mho/m;  $\epsilon_r = 53.13$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.41 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.829 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.665 mW/g

**SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.604 mW/g**

Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38 mW/g = 2.80 dB mW/g

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Date: 2013/1/12

### Body-worn\_Bottom side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.456 \text{ mho/m}$ ;  $\epsilon_r = 53.083$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.28 mW/g

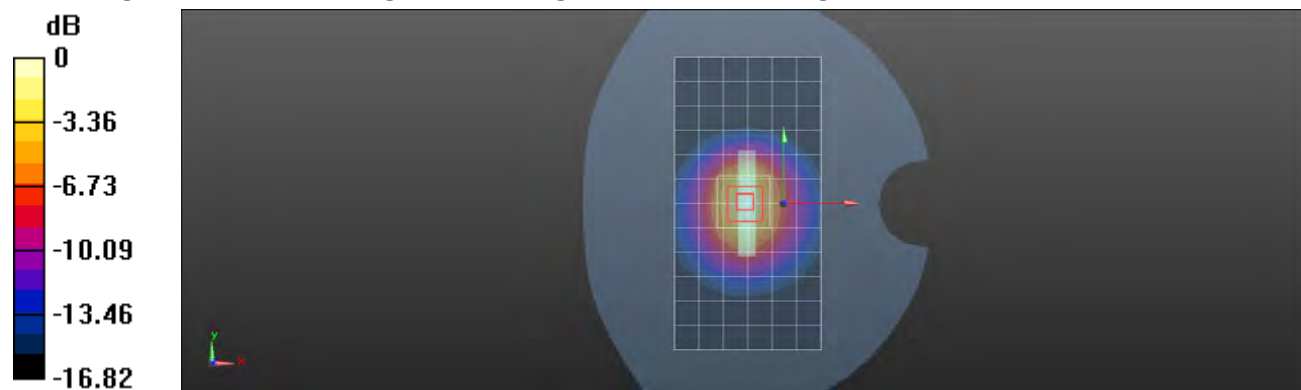
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 27.233 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.539 mW/g

**SAR(1 g) = 0.962 mW/g; SAR(10 g) = 0.552 mW/g**



0 dB = 1.28 mW/g = 2.14 dB mW/g

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Date: 2013/1/12

### Body-worn\_Bottom side\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.477$  mho/m;  $\epsilon_r = 53.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.66 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.143 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.011 mW/g

**SAR(1 g) = 1.25 mW/g; SAR(10 g) = 0.713 mW/g**



0 dB = 1.66 mW/g = 4.40 dB mW/g

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Date: 2013/1/12

## Body-worn\_Bottom side\_CH1513\_repeated with external Memory card inside

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.477$  mho/m;  $\epsilon_r = 53.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.61 mW/g

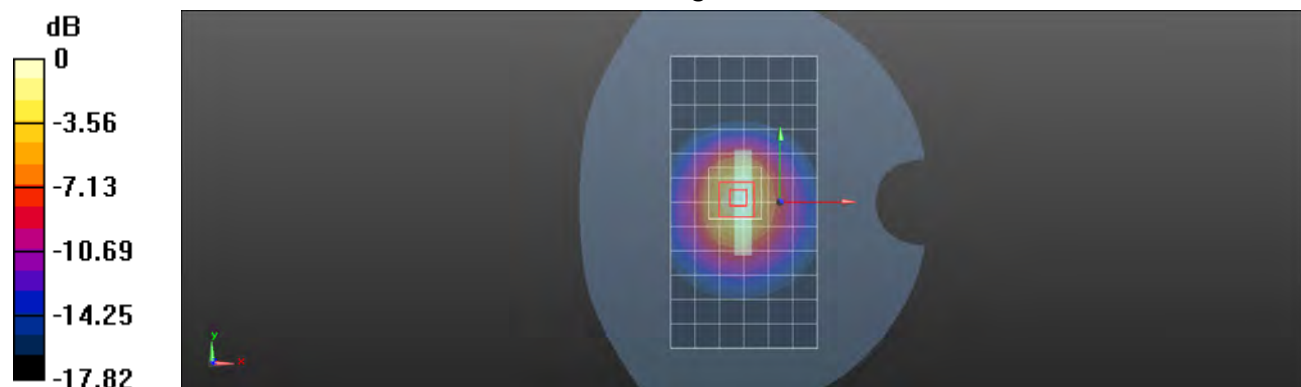
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.113 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.111 mW/g

**SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.740 mW/g**

Maximum value of SAR (measured) = 1.71 mW/g



0 dB = 1.71 mW/g = 4.66 dB mW/g

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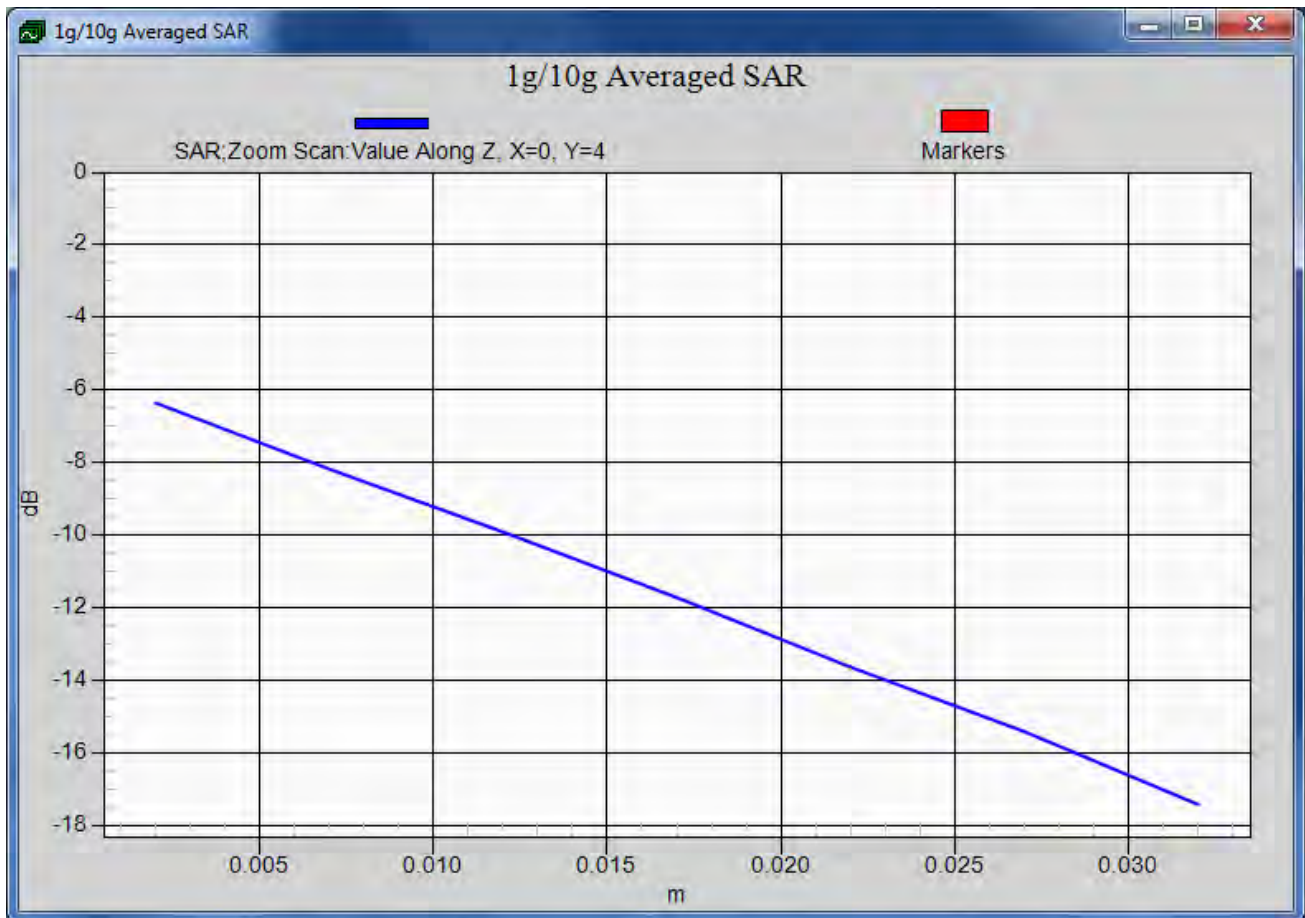
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Date: 2013/1/12

## Body-worn\_Bottom side\_CH1513\_repeated with external Memory card inside\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.477$  mho/m;  $\epsilon_r = 53.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.57 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.560 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.005 mW/g

**SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.736 mW/g**

Maximum value of SAR (measured) = 1.66 mW/g



0 dB = 1.66 mW/g = 4.40 dB mW/g

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Date: 2013/1/12

### Body-worn\_Bottom side\_CH1513\_repeated with headset

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.477$  mho/m;  $\epsilon_r = 53.035$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.68 mW/g

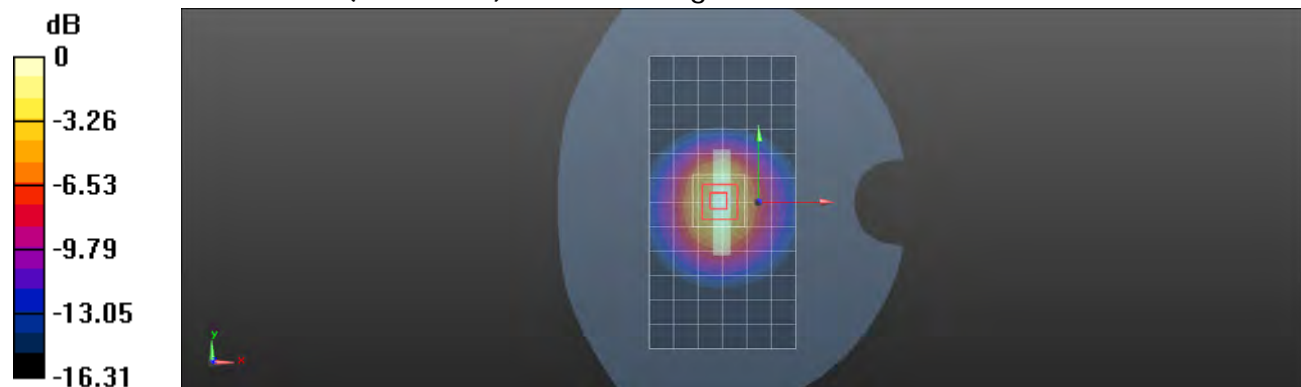
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.853 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.062 mW/g

**SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.744 mW/g**

Maximum value of SAR (measured) = 1.72 mW/g



0 dB = 1.72 mW/g = 4.71 dB mW/g

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Date: 2013/1/12

### Body-worn\_Right side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4$  MHz;  $\sigma = 1.456$  mho/m;  $\epsilon_r = 53.083$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.112 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

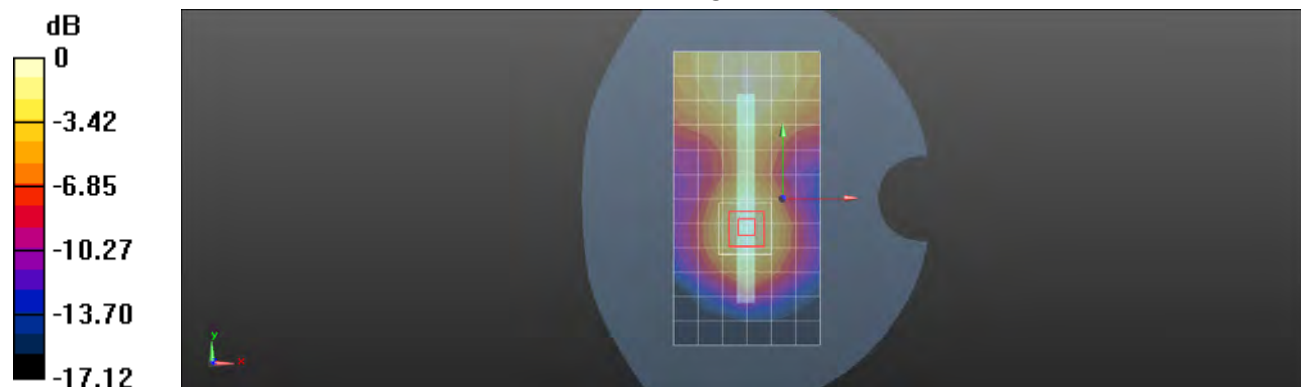
dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.383 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.137 mW/g

**SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.113 mW/g



0 dB = 0.113 mW/g = -18.94 dB mW/g

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Date: 2013/1/12

### Body-worn\_Left side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used:  $f = 1732.4 \text{ MHz}$ ;  $\sigma = 1.456 \text{ mho/m}$ ;  $\epsilon_r = 53.083$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.311 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

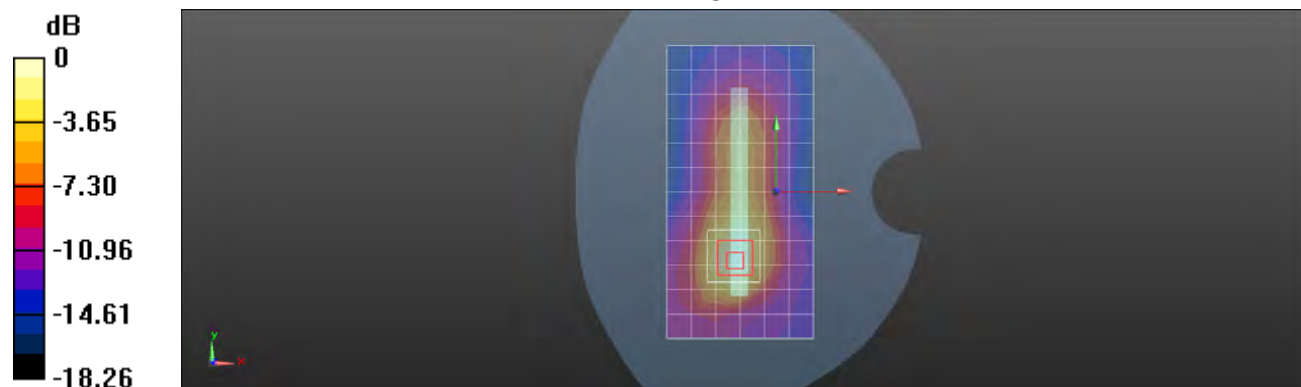
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 8.872 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.398 mW/g

**SAR(1 g) = 0.247 mW/g; SAR(10 g) = 0.142 mW/g**

Maximum value of SAR (measured) = 0.322 mW/g



0 dB = 0.322 mW/g = -9.84 dB mW/g

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Date: 2013/1/11

## RE Cheek\_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.896$  mho/m;  $\epsilon_r = 41.031$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.470 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

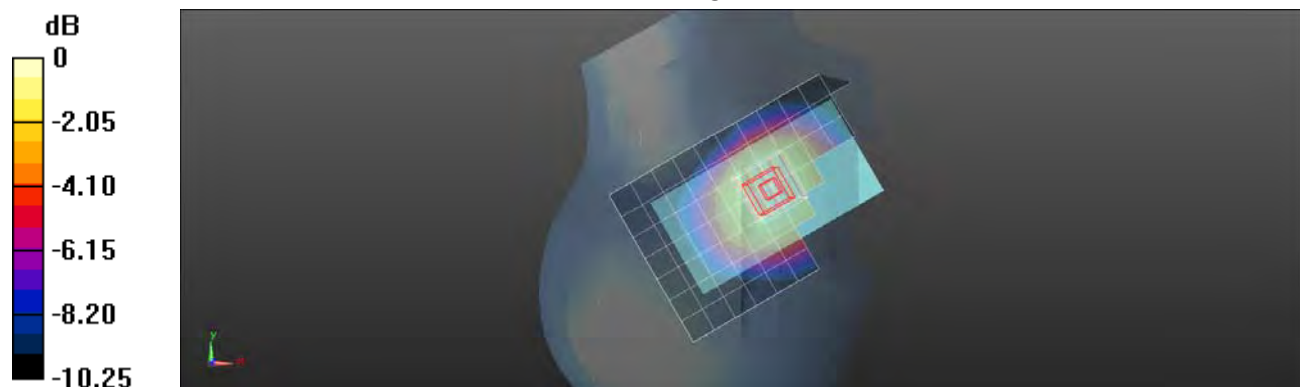
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.558 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.512 mW/g

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.308 mW/g**

Maximum value of SAR (measured) = 0.475 mW/g



0 dB = 0.475 mW/g = -6.47 dB mW/g

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Date: 2013/1/11

## RE Cheek\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.612 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

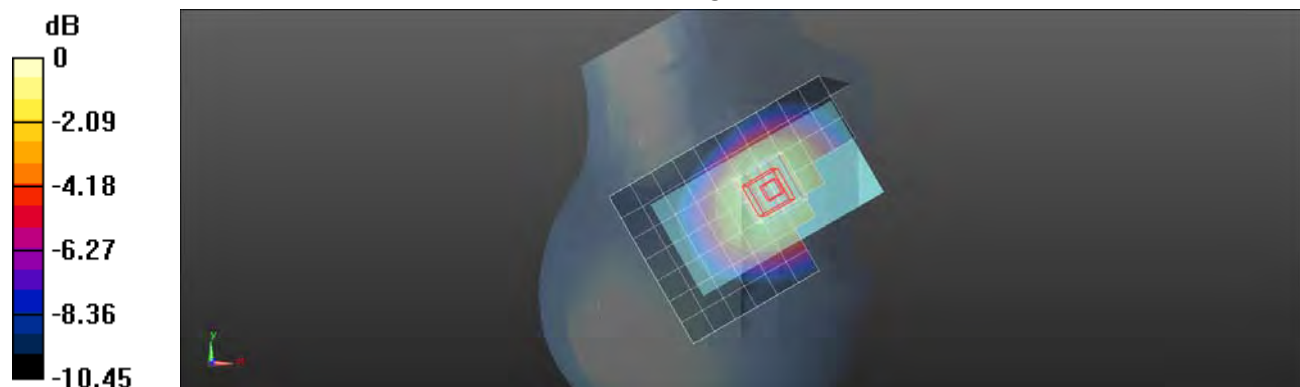
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.944 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.684 mW/g

**SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.405 mW/g**

Maximum value of SAR (measured) = 0.631 mW/g



0 dB = 0.631 mW/g = -4.00 dB mW/g

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Date: 2013/1/11

### RE Cheek\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.913$  mho/m;  $\epsilon_r = 40.766$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.707 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

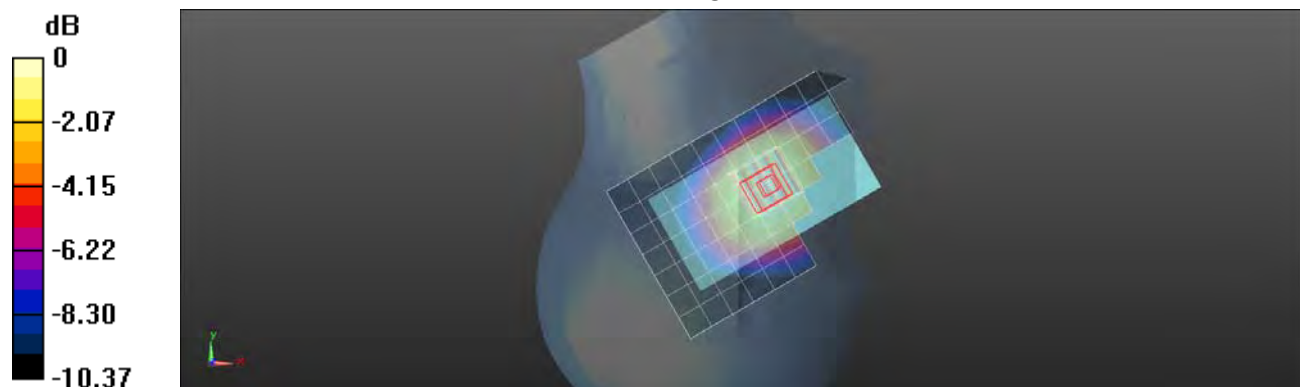
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.401 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.761 mW/g

**SAR(1 g) = 0.611 mW/g; SAR(10 g) = 0.454 mW/g**

Maximum value of SAR (measured) = 0.700 mW/g

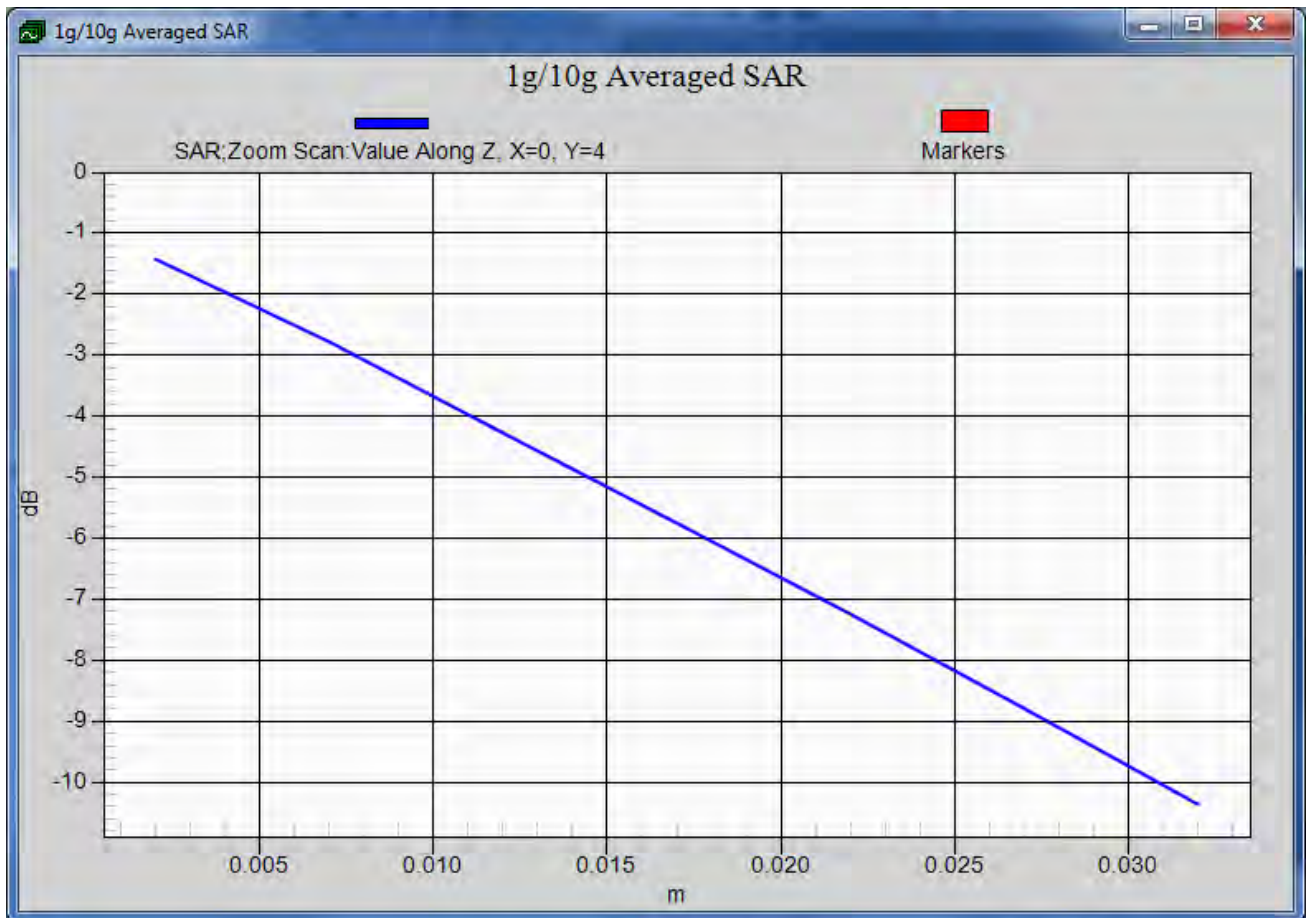


0 dB = 0.700 mW/g = -3.10 dB mW/g

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Date: 2013/1/11

## RE Cheek\_CH4233\_repeated with external Memory card inside

Communication System: WCDMA; Frequency: 846.6 MHz

 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.913$  mho/m;  $\epsilon_r = 40.766$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.678 mW/g

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

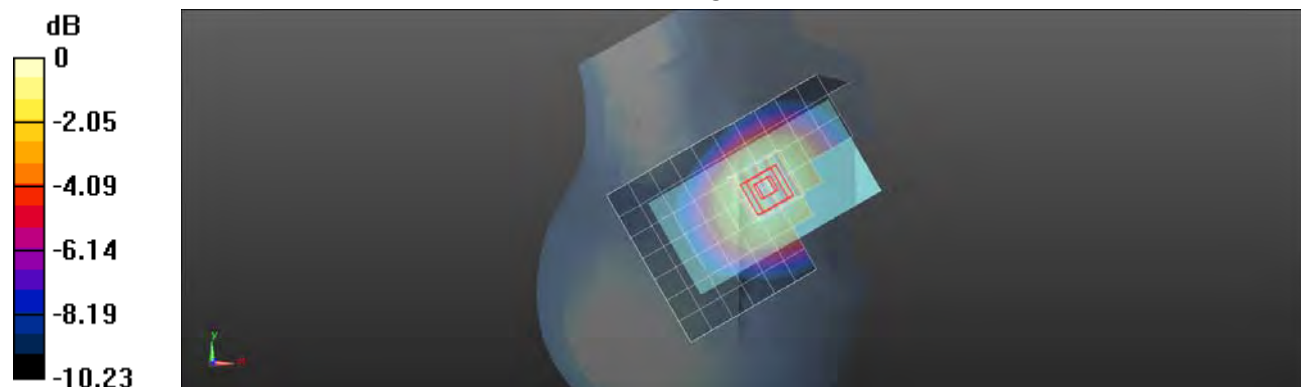
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.832 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.743 mW/g

**SAR(1 g) = 0.594 mW/g; SAR(10 g) = 0.443 mW/g**

Maximum value of SAR (measured) = 0.675 mW/g



0 dB = 0.675 mW/g = -3.41 dB mW/g

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Date: 2013/1/11

## RE Tilt\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.426 mW/g

**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

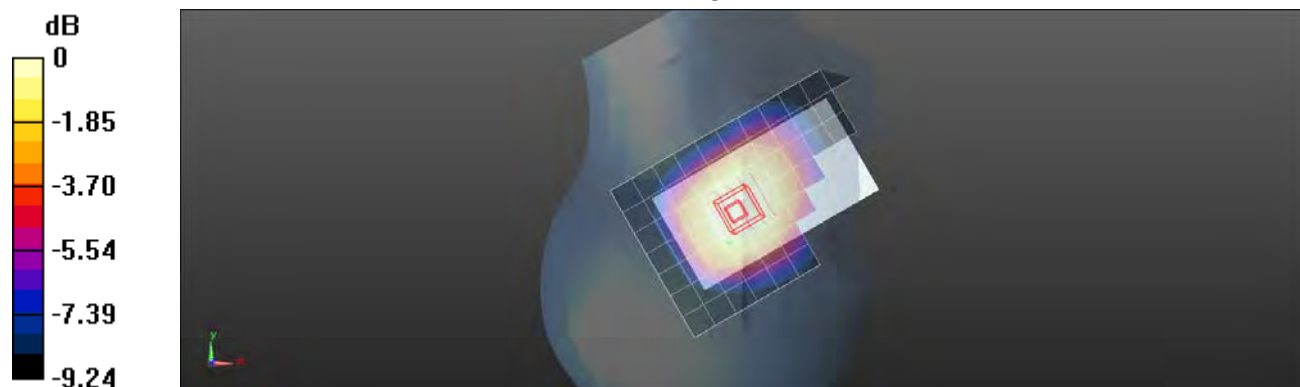
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.877 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.463 mW/g

**SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.271 mW/g**

Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420 mW/g = -7.54 dB mW/g

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Date: 2013/1/11

### LE Cheek\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.597 mW/g

**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

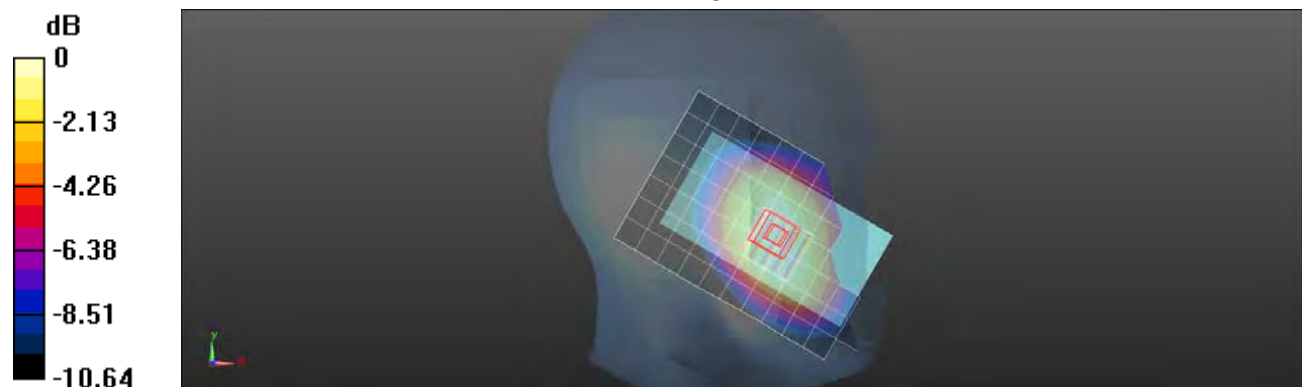
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.933 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.649 mW/g

**SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.365 mW/g**

Maximum value of SAR (measured) = 0.579 mW/g



0 dB = 0.579 mW/g = -4.75 dB mW/g

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### LE Tilt\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.905$  mho/m;  $\epsilon_r = 40.889$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.3(988); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.409 mW/g

**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

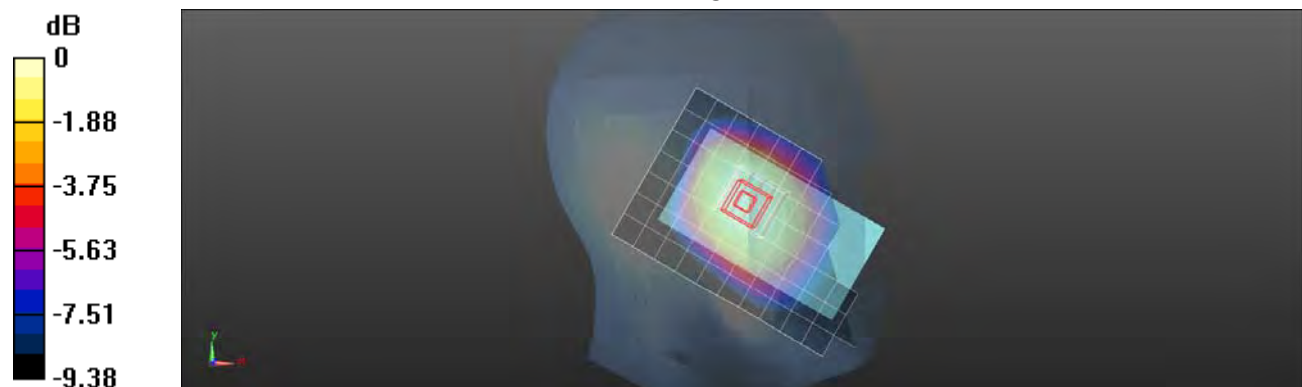
dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.476 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.444 mW/g

**SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.259 mW/g**

Maximum value of SAR (measured) = 0.403 mW/g



0 dB = 0.403 mW/g = -7.89 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH4183\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.544 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

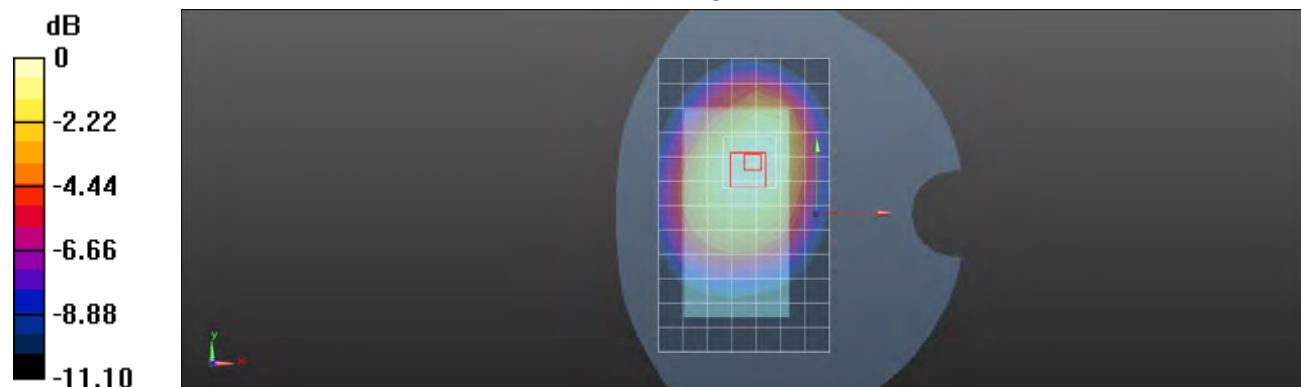
dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.345 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.624 mW/g

**SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.317 mW/g**

Maximum value of SAR (measured) = 0.536 mW/g



0 dB = 0.536 mW/g = -5.42 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH4183\_15mm\_WCDMA+headset

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837 \text{ MHz}$ ;  $\sigma = 1.001 \text{ mho/m}$ ;  $\epsilon_r = 53.455$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.692 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.912 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.833 mW/g

**SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.426 mW/g**

Maximum value of SAR (measured) = 0.723 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

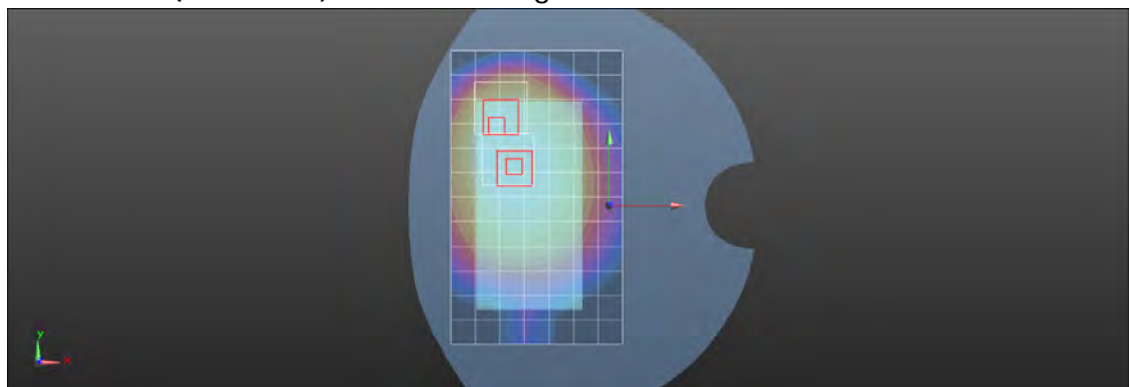
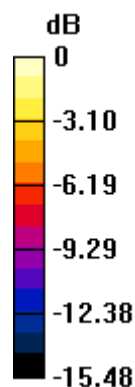
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 14.912 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.745 mW/g

**SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.277 mW/g**

Maximum value of SAR (measured) = 0.622 mW/g



0 dB = 0.622 mW/g = -4.12 dB mW/g

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Date: 2013/1/11

### Body-worn\_Front side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.815 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

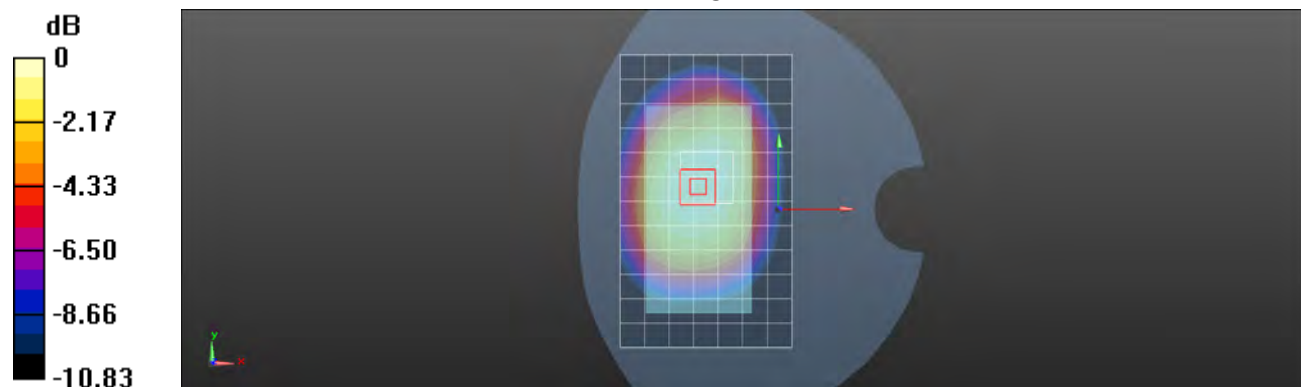
dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.492 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.919 mW/g

**SAR(1 g) = 0.705 mW/g; SAR(10 g) = 0.525 mW/g**

Maximum value of SAR (measured) = 0.820 mW/g



0 dB = 0.820 mW/g = -1.72 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used:  $f = 826.4$  MHz;  $\sigma = 0.991$  mho/m;  $\epsilon_r = 53.532$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.674 mW/g

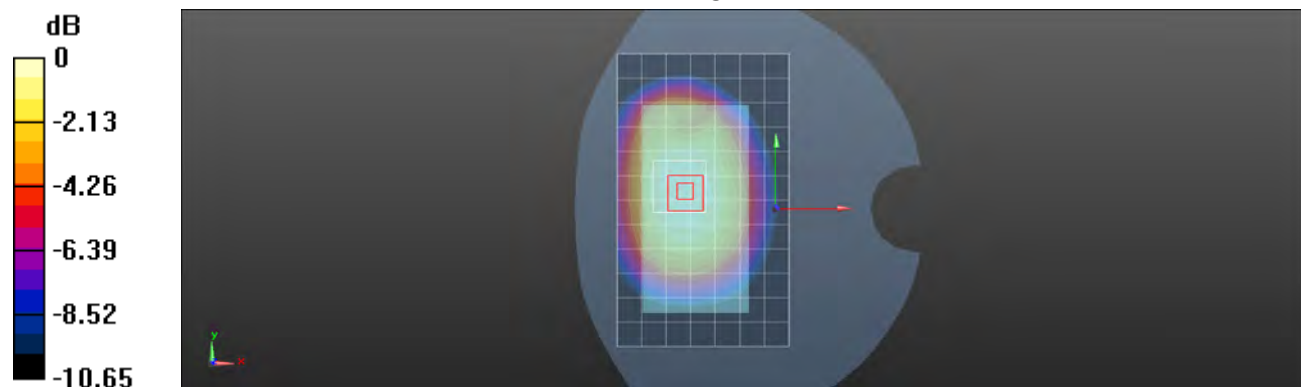
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.410 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.775 mW/g

**SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.429 mW/g**

Maximum value of SAR (measured) = 0.682 mW/g



0 dB = 0.682 mW/g = -3.32 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.916 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

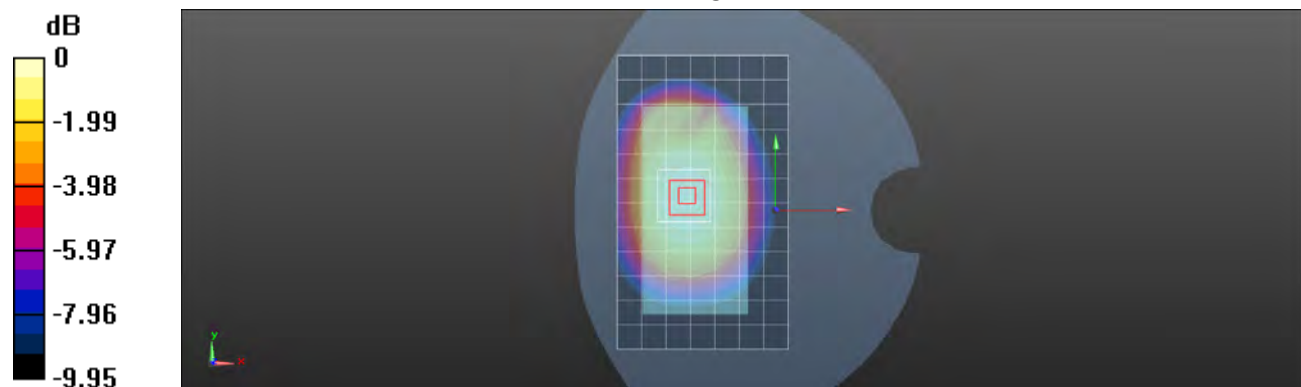
dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.435 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.035 mW/g

**SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.575 mW/g**

Maximum value of SAR (measured) = 0.919 mW/g



0 dB = 0.919 mW/g = -0.73 dB mW/g

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Date: 2013/1/11

### Body-worn\_Back side\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.011$  mho/m;  $\epsilon_r = 53.385$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (8x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.776 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

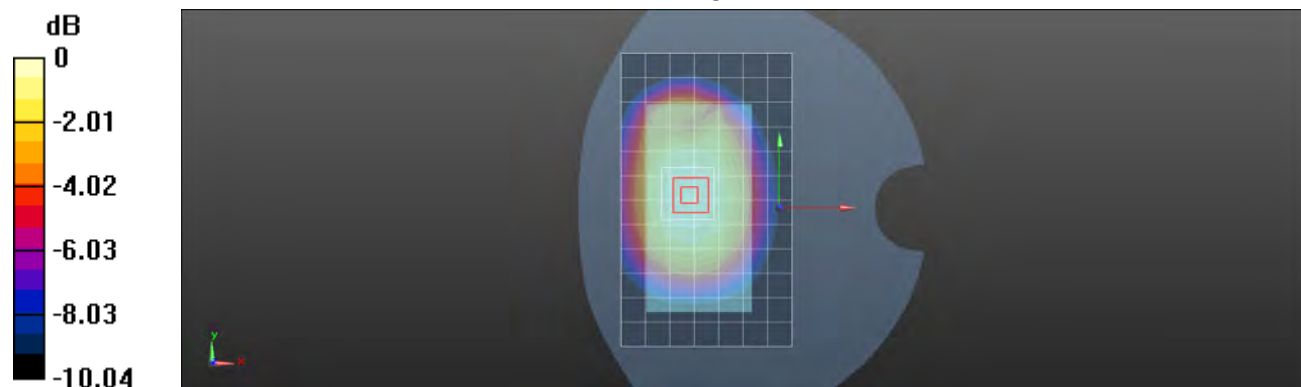
dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.696 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.878 mW/g

**SAR(1 g) = 0.661 mW/g; SAR(10 g) = 0.485 mW/g**

Maximum value of SAR (measured) = 0.779 mW/g



0 dB = 0.779 mW/g = -2.17 dB mW/g

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Date: 2013/1/11

### Body-worn\_Bottom side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.161 mW/g

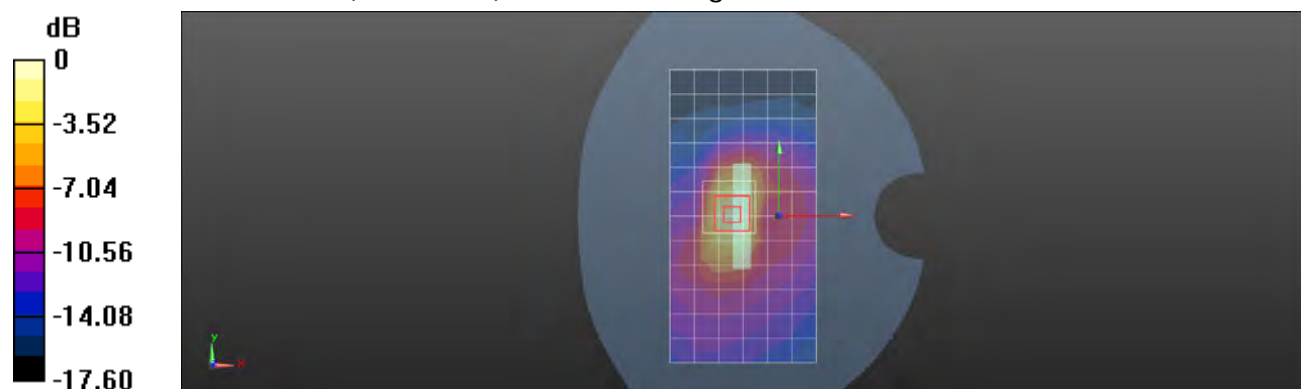
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.721 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.290 mW/g

**SAR(1 g) = 0.154 mW/g; SAR(10 g) = 0.081 mW/g**

Maximum value of SAR (measured) = 0.206 mW/g



0 dB = 0.206 mW/g = -13.72 dB mW/g

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Date: 2013/1/11

### Body-worn\_Right side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.684 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

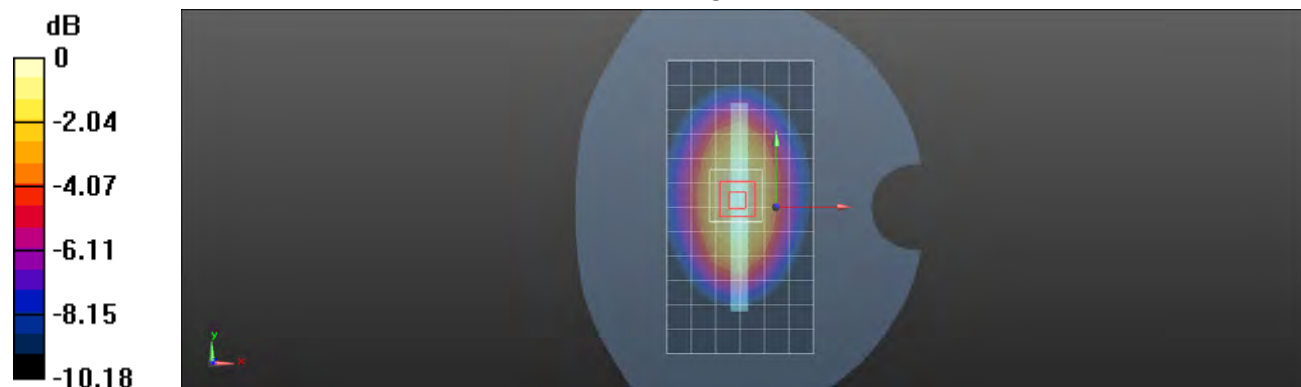
dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.911 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.833 mW/g

**SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.388 mW/g**

Maximum value of SAR (measured) = 0.707 mW/g



0 dB = 0.707 mW/g = -3.01 dB mW/g

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Date: 2013/1/11

### Body-worn\_Left side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.001$  mho/m;  $\epsilon_r = 53.455$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (7x13x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.744 mW/g

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

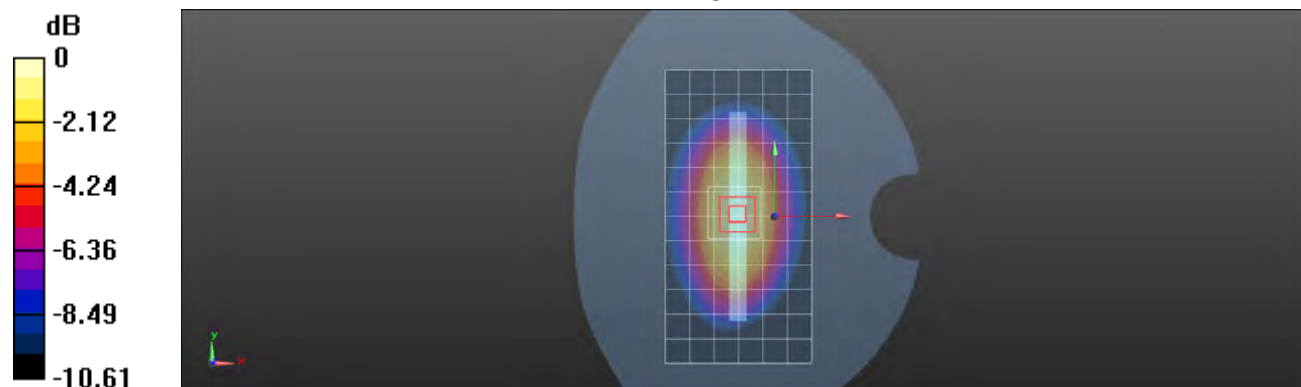
dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.445 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.873 mW/g

**SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.399 mW/g**

Maximum value of SAR (measured) = 0.740 mW/g



0 dB = 0.740 mW/g = -2.62 dB mW/g

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Date: 2012/11/14

## RE Cheek\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.883$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.332 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

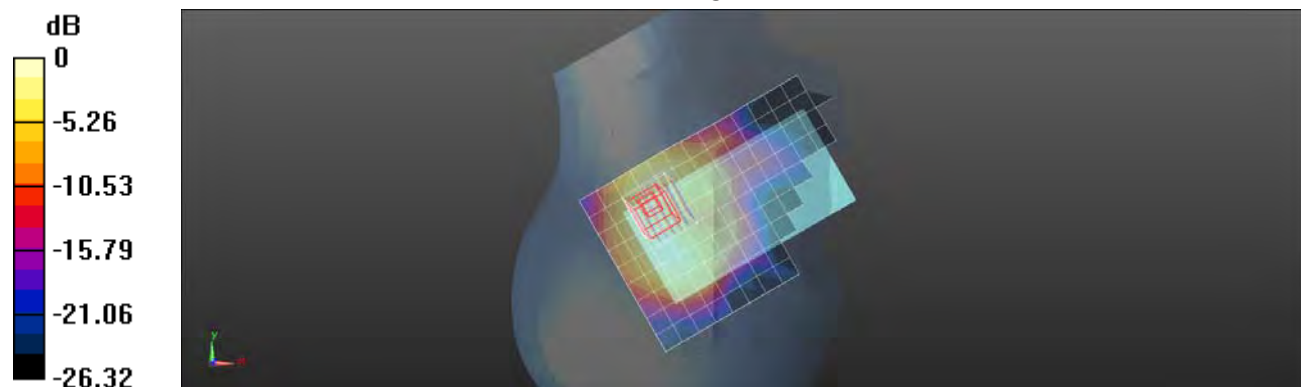
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.478 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.452 mW/g

**SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.126 mW/g**

Maximum value of SAR (measured) = 0.334 mW/g



0 dB = 0.334 mW/g = -9.53 dB mW/g

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Date: 2012/11/14

## RE Tilt\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.883$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.196 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

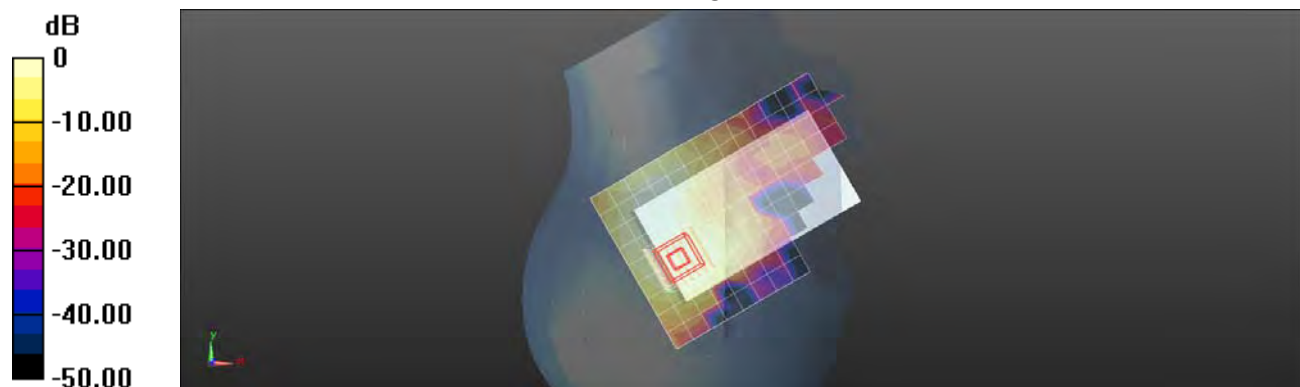
dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.457 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.266 mW/g

**SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.077 mW/g**

Maximum value of SAR (measured) = 0.207 mW/g



0 dB = 0.207 mW/g = -13.68 dB mW/g

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Date: 2012/11/14

### LE Cheek\_WLAN802.11b\_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.76$  mho/m;  $\epsilon_r = 39.944$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.819 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

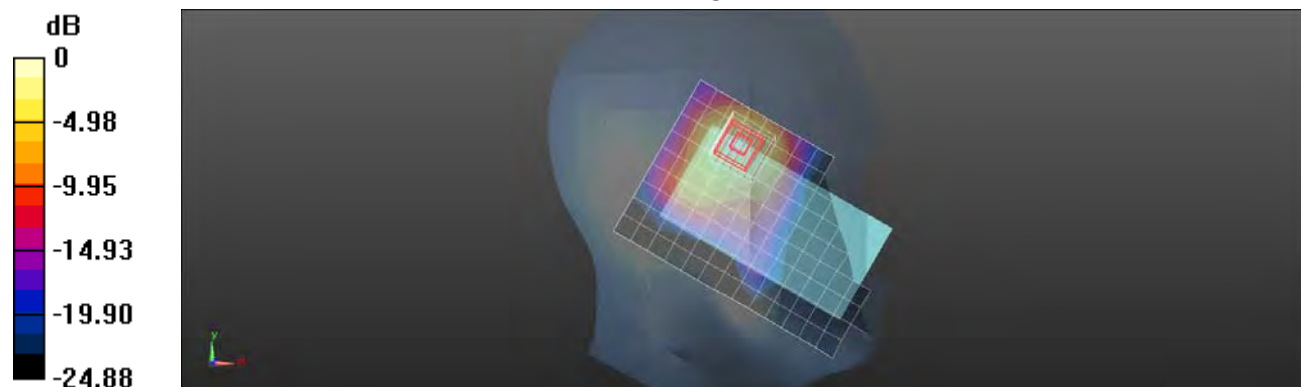
dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.883 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.248 mW/g

**SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.290 mW/g**

Maximum value of SAR (measured) = 0.918 mW/g



0 dB = 0.918 mW/g = -0.74 dB mW/g

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Date: 2012/11/14

### LE Cheek\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.79 \text{ mho/m}$ ;  $\epsilon_r = 39.883$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.854 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

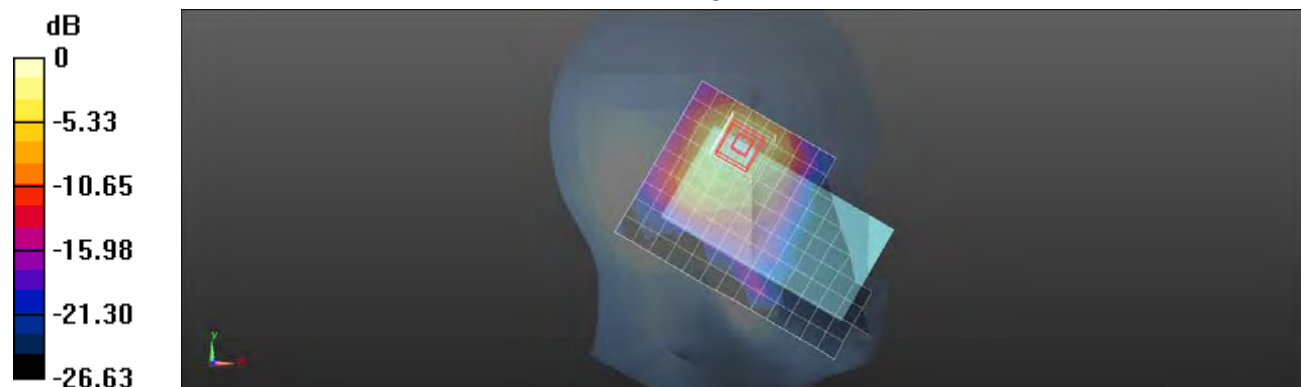
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.255 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.338 mW/g

**SAR(1 g) = 0.626 mW/g; SAR(10 g) = 0.297 mW/g**

Maximum value of SAR (measured) = 0.972 mW/g



0 dB = 0.972 mW/g = -0.25 dB mW/g

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Date: 2012/11/14

### LE Cheek\_WLAN802.11b\_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

Medium parameters used:  $f = 2462 \text{ MHz}$ ;  $\sigma = 1.815 \text{ mho/m}$ ;  $\epsilon_r = 39.801$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.717 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

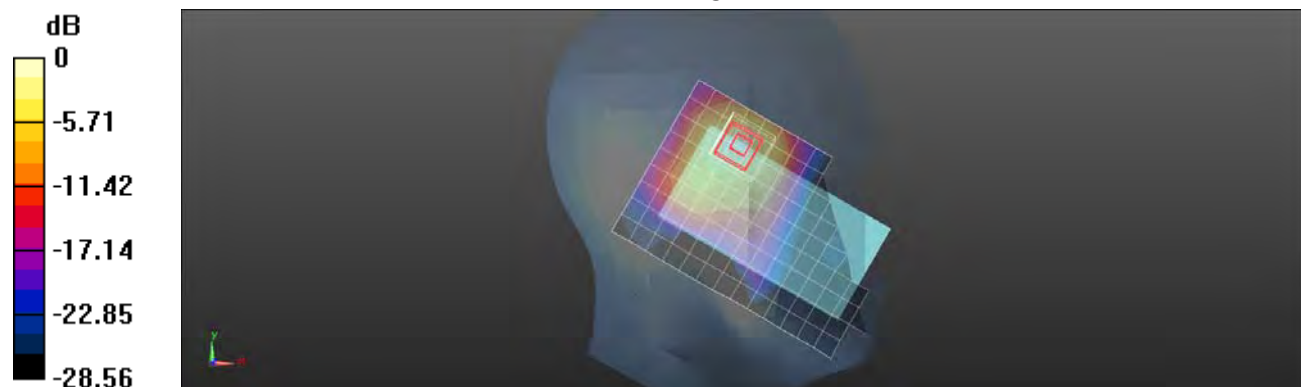
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 9.901 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.172 mW/g

**SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.265 mW/g**

Maximum value of SAR (measured) = 0.858 mW/g



0 dB = 0.858 mW/g = -1.33 dB mW/g

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Date: 2012/11/14

## LE Cheek\_WLAN802.11b\_CH6\_repeated with external Memory card inside

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 39.883$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.10 mW/g

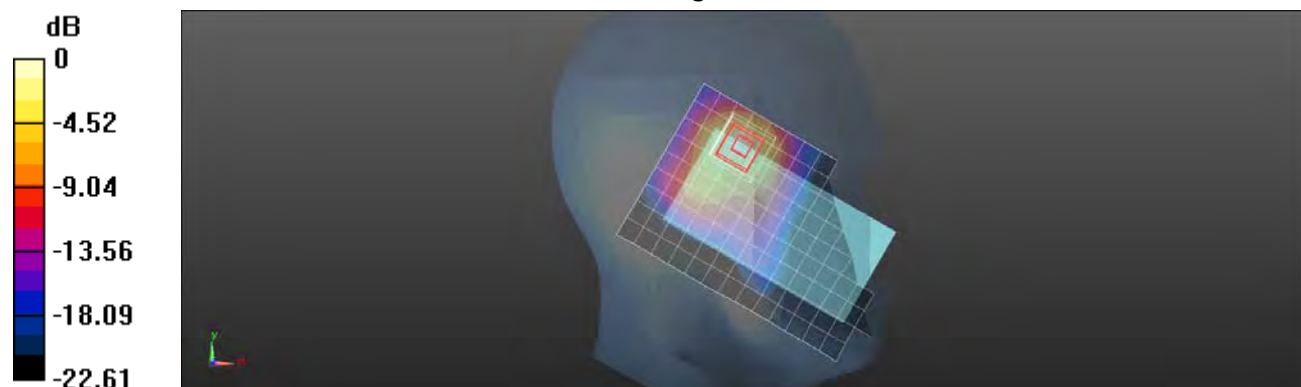
**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.108 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.653 mW/g

**SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.363 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g

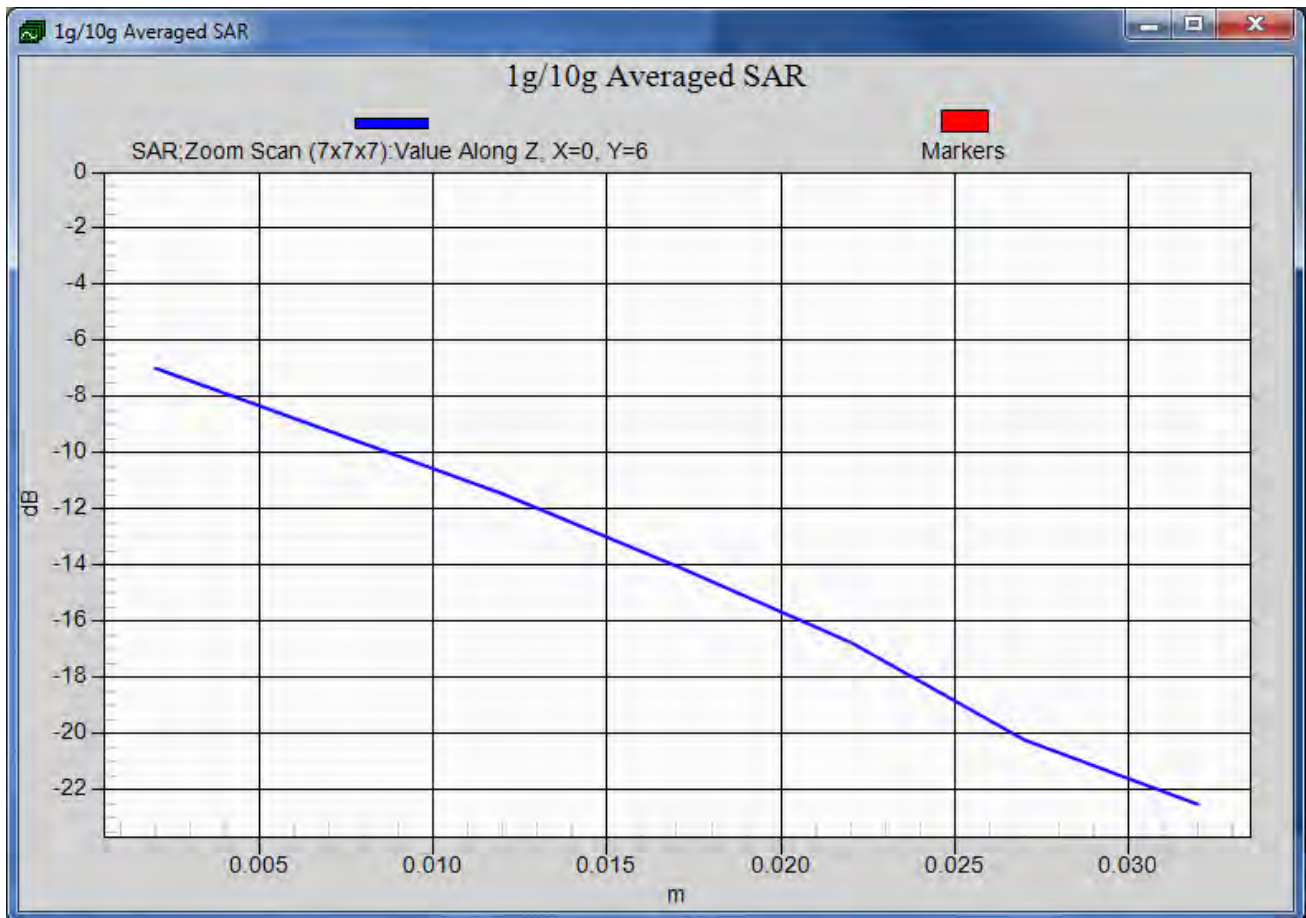


0 dB = 1.20 mW/g = 1.58 dB mW/g

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Date: 2012/11/14

### LE Cheek\_WLAN802.11b\_CH6\_repeated with Bluetooth active

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.79 \text{ mho/m}$ ;  $\epsilon_r = 39.883$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) = 1.05 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

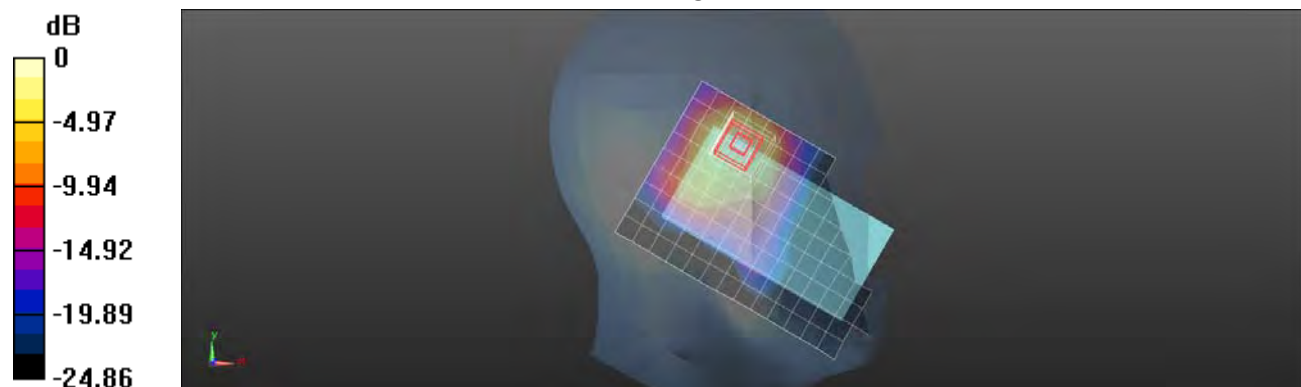
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.926 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.563 mW/g

**SAR(1 g) = 0.743 mW/g; SAR(10 g) = 0.348 mW/g**

Maximum value of SAR (measured) = 1.14 mW/g



0 dB = 1.14 mW/g = 1.14 dB mW/g

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Date: 2012/11/14

### LE Tilt\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437 \text{ MHz}$ ;  $\sigma = 1.79 \text{ mho/m}$ ;  $\epsilon_r = 39.883$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (10x15x1):** Measurement grid:  $dx=12\text{mm}$ ,  $dy=12\text{mm}$

Maximum value of SAR (measured) = 0.398 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

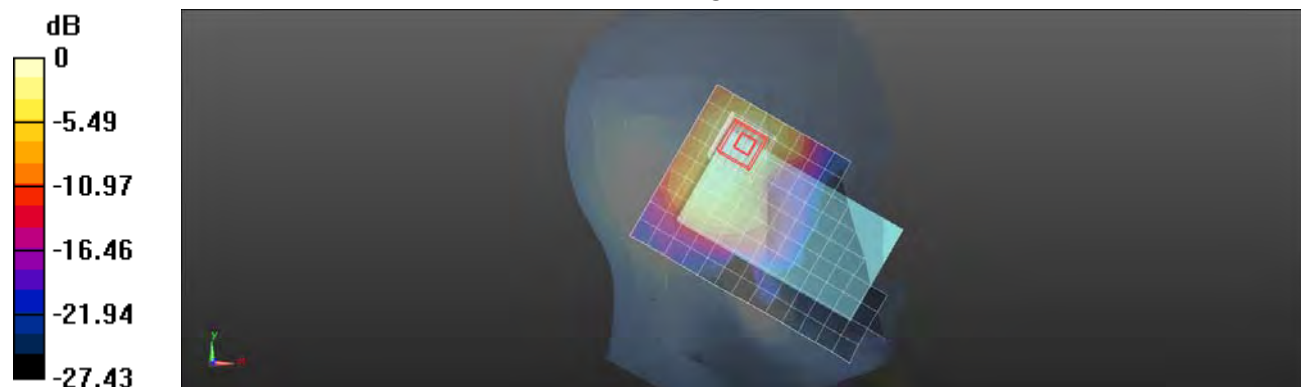
$dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.665 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.533 mW/g

**SAR(1 g) = 0.278 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.390 mW/g



0 dB = 0.390 mW/g = -8.18 dB mW/g

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Date: 2012/11/14

### Body-worn\_Front side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 53.034$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.146 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

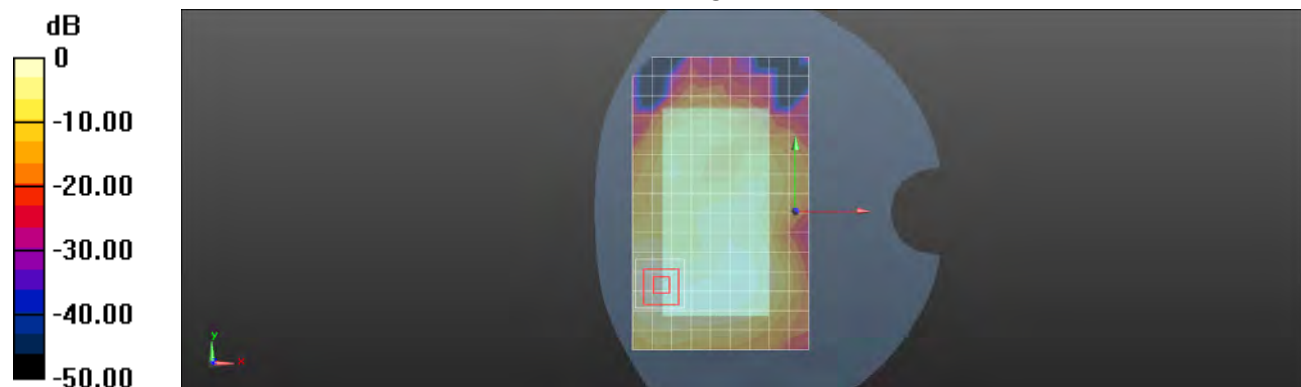
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.986 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.223 mW/g

**SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.168 mW/g



0 dB = 0.168 mW/g = -15.49 dB mW/g

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Date: 2012/11/14

### Body-worn\_Back side\_WLAN802.11b\_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.894$  mho/m;  $\epsilon_r = 53.111$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.439 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

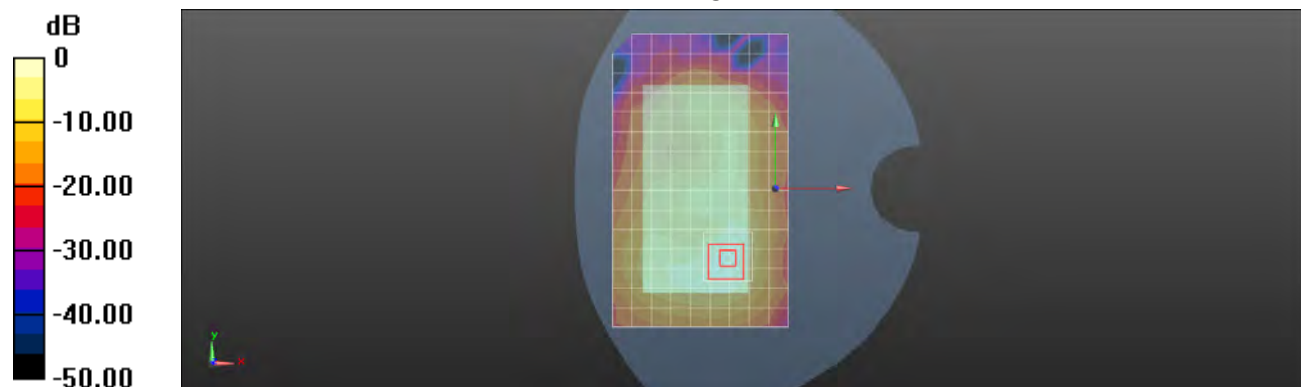
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.877 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.663 mW/g

**SAR(1 g) = 0.326 mW/g; SAR(10 g) = 0.151 mW/g**

Maximum value of SAR (measured) = 0.496 mW/g



0 dB = 0.496 mW/g = -6.09 dB mW/g

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Date: 2012/11/14

### Body-worn\_Back side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 53.034$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.624 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

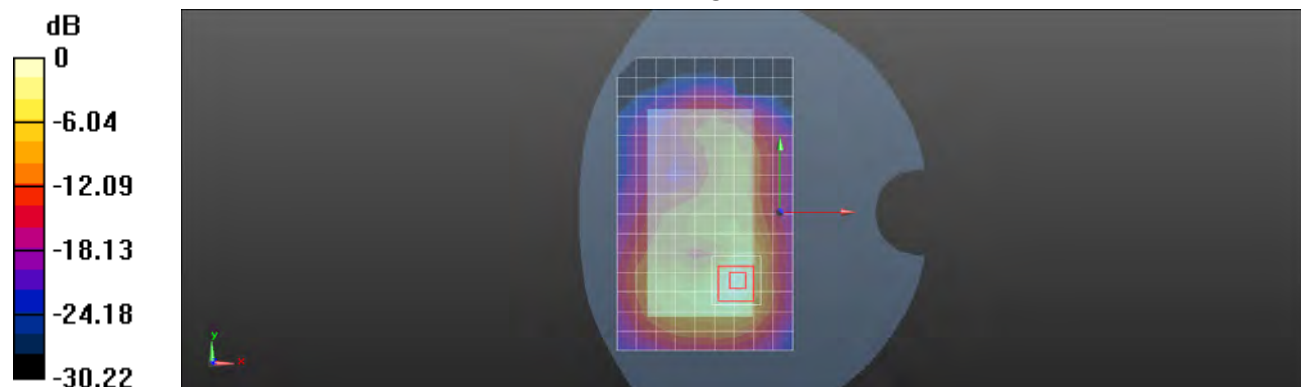
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 6.300 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.978 mW/g

**SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.225 mW/g**

Maximum value of SAR (measured) = 0.732 mW/g



0 dB = 0.732 mW/g = -2.71 dB mW/g

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Date: 2012/11/14

### Body-worn\_Back side\_WLAN802.11b\_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.973$  mho/m;  $\epsilon_r = 53.002$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.754 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

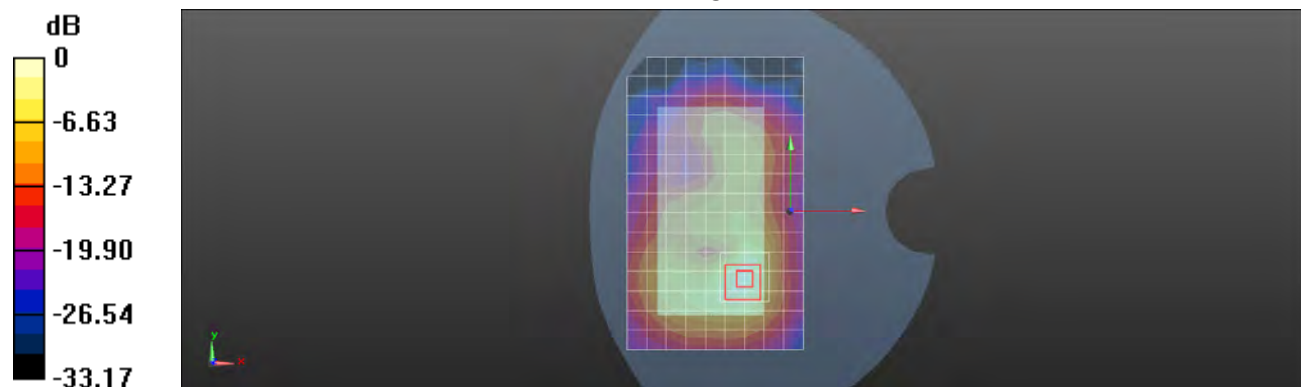
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.876 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.068 mW/g

**SAR(1 g) = 0.519 mW/g; SAR(10 g) = 0.239 mW/g**

Maximum value of SAR (measured) = 0.796 mW/g



0 dB = 0.796 mW/g = -1.98 dB mW/g

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Date: 2012/11/14

### Body-worn\_Top side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 53.034$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.0711 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

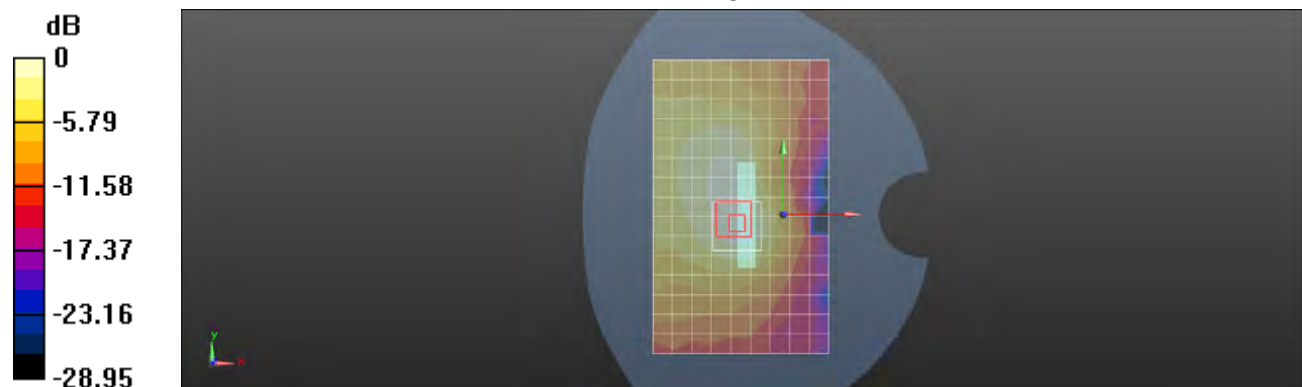
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.090 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.100 mW/g

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.0772 mW/g



0 dB = 0.0772 mW/g = -22.25 dB mW/g

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Date: 2012/11/14

### Body-worn\_Right side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.935$  mho/m;  $\epsilon_r = 53.034$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (9x16x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.513 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

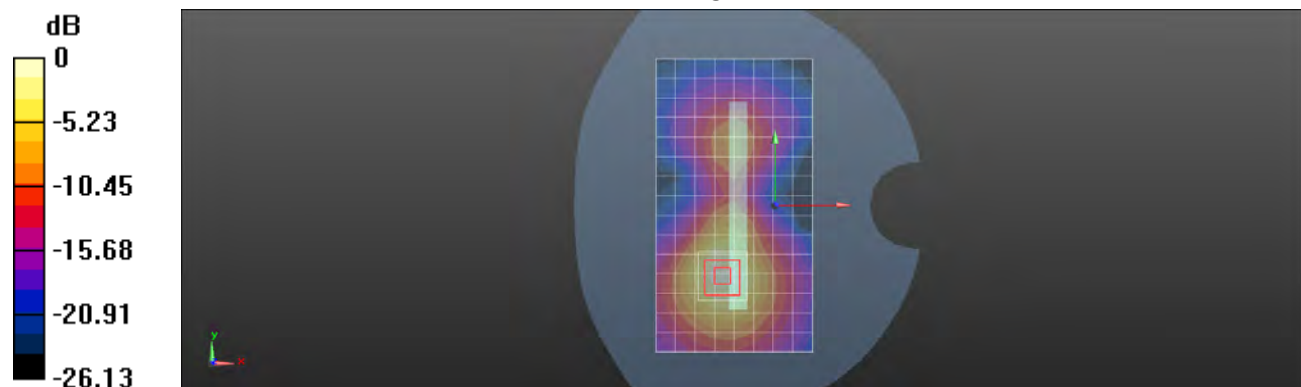
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.450 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.760 mW/g

**SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.202 mW/g**

Maximum value of SAR (measured) = 0.579 mW/g



0 dB = 0.579 mW/g = -4.75 dB mW/g

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Date: 2012/11/21

### RE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.455 \text{ mho/m}$ ;  $\epsilon_r = 35.463$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0797 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

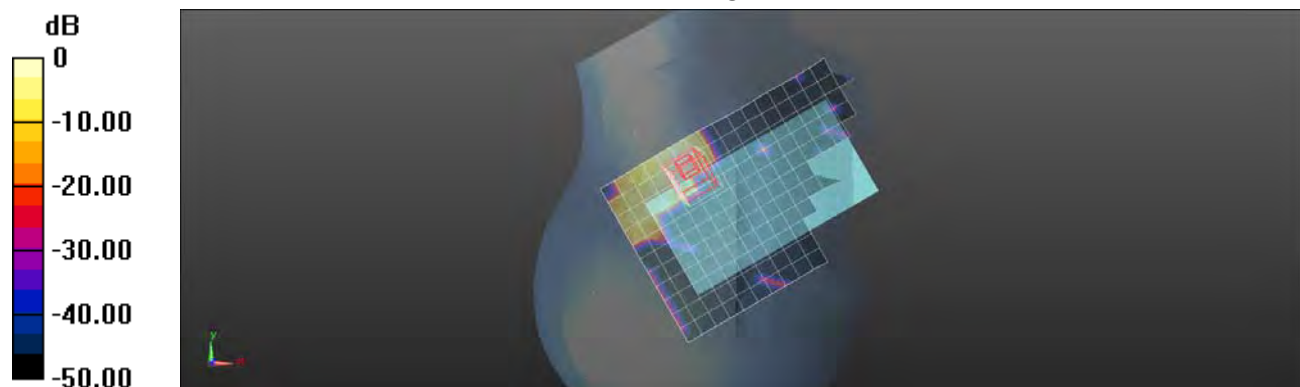
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.178 mW/g

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.0963 mW/g



0 dB = 0.0963 mW/g = -20.33 dB mW/g

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Date: 2012/11/21

### RE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.455 \text{ mho/m}$ ;  $\epsilon_r = 35.463$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0374 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

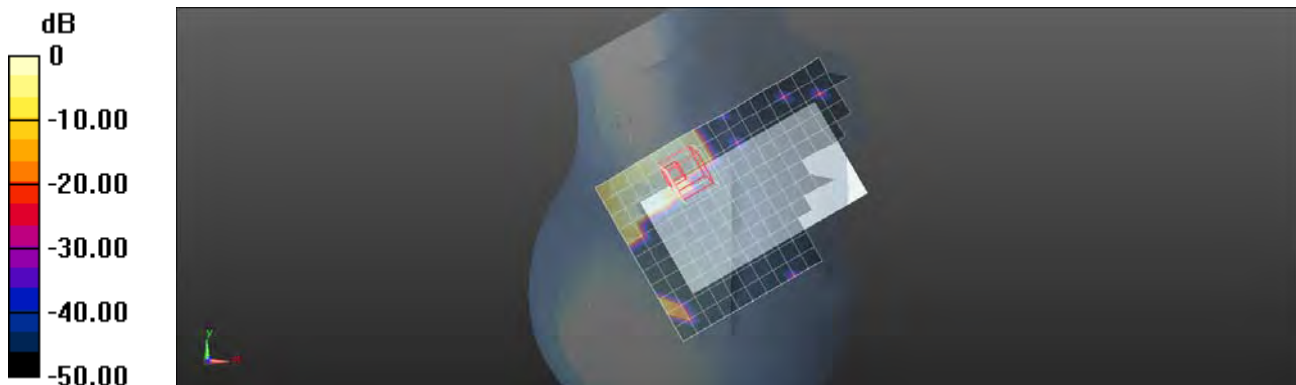
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.118 mW/g

**SAR(1 g) = 0.012 mW/g; SAR(10 g) = 0.0036 mW/g**

Maximum value of SAR (measured) = 0.0250 mW/g



0 dB = 0.0250 mW/g = -32.04 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.455 \text{ mho/m}$ ;  $\epsilon_r = 35.463$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.271 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

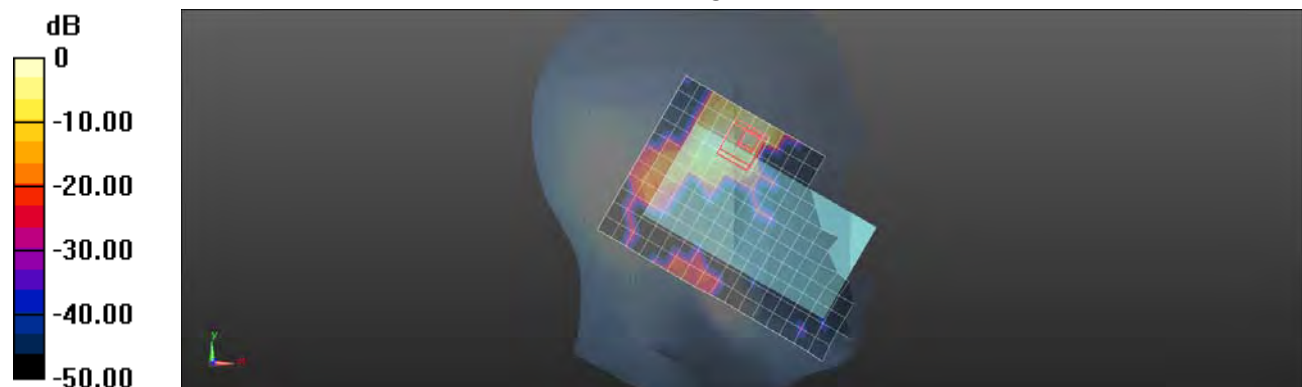
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.861 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.154 mW/g

**SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.466 mW/g



0 dB = 0.466 mW/g = -6.63 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11a 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.52$  mho/m;  $\epsilon_r = 35.329$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.156 mW/g

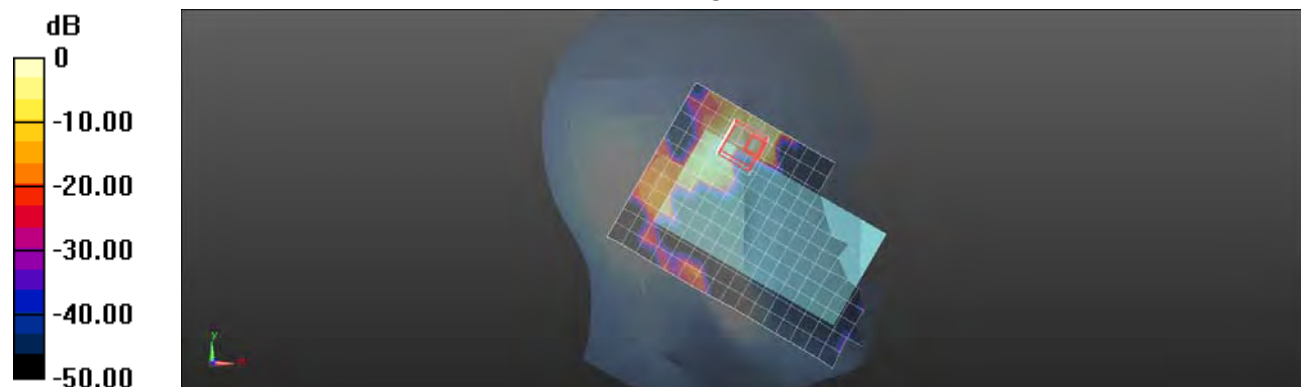
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.468 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.458 mW/g

**SAR(1 g) = 0.092 mW/g; SAR(10 g) = 0.025 mW/g**

Maximum value of SAR (measured) = 0.231 mW/g



0 dB = 0.231 mW/g = -12.73 dB mW/g

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Date: 2012/11/21

### LE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.455$  mho/m;  $\epsilon_r = 35.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0885 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

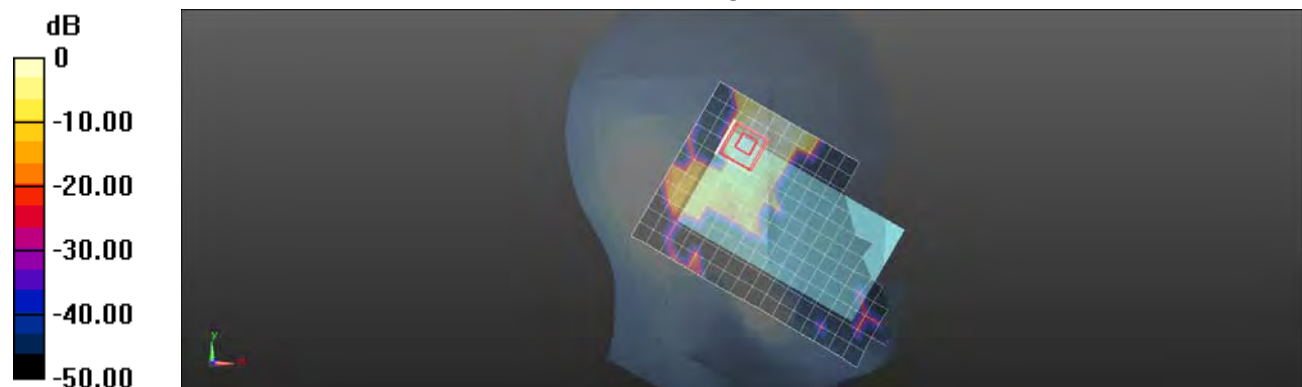
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.608 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.241 mW/g

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.0877 mW/g



0 dB = 0.0877 mW/g = -21.14 dB mW/g

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Date: 2012/11/25

### Body-worn\_Front side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.284$  mho/m;  $\epsilon_r = 48.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.120 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

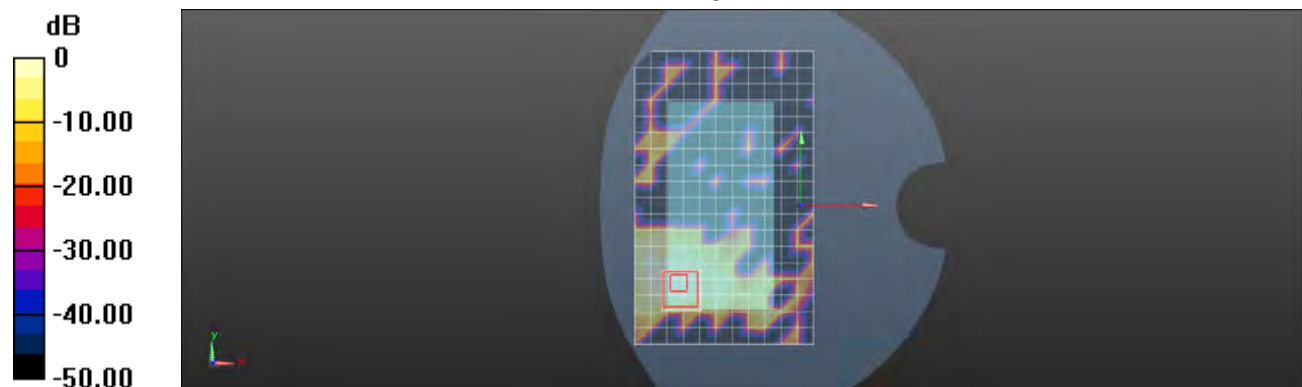
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.253 mW/g

**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.023 mW/g**

Maximum value of SAR (measured) = 0.136 mW/g



0 dB = 0.136 mW/g = -17.33 dB mW/g

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Date: 2012/11/25

### Body-worn\_Back side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.284$  mho/m;  $\epsilon_r = 48.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.651 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

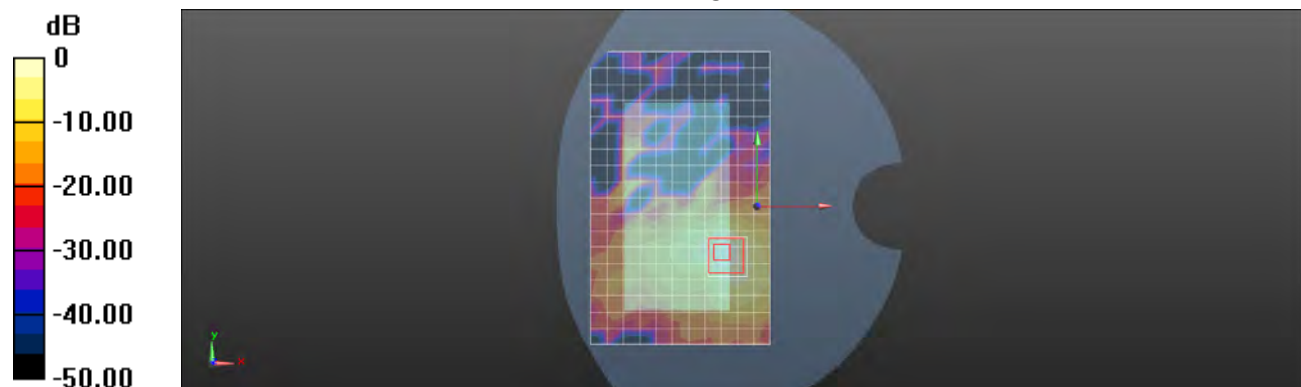
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.548 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.256 mW/g

**SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.110 mW/g**

Maximum value of SAR (measured) = 0.708 mW/g



0 dB = 0.708 mW/g = -3.00 dB mW/g

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Date: 2012/11/25

### Body-worn\_Top side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.284 \text{ mho/m}$ ;  $\epsilon_r = 48.558$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Configuration/Body-worn/Area Scan (12x19x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0387 mW/g

### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

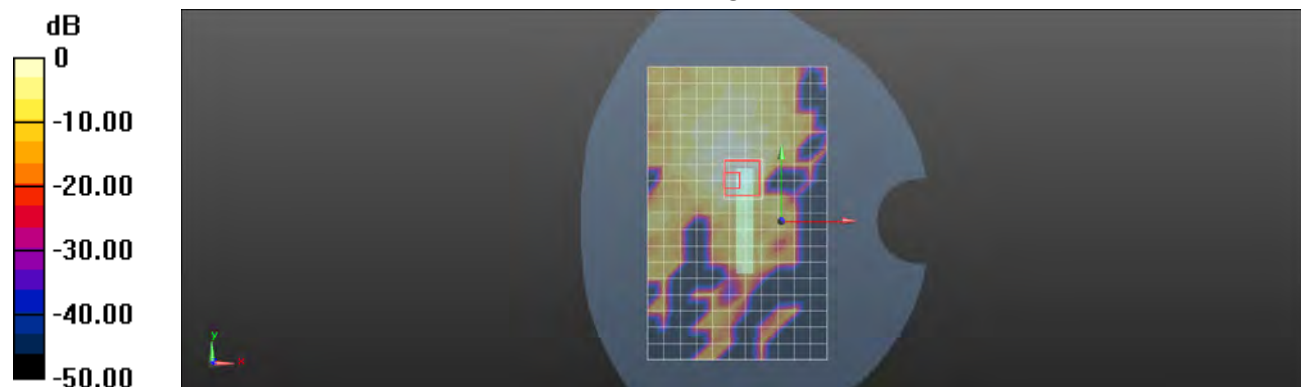
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.453 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.229 mW/g

### SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00588 mW/g

Maximum value of SAR (measured) = 0.0463 mW/g



0 dB = 0.0463 mW/g = -26.69 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.284$  mho/m;  $\epsilon_r = 48.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.858 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

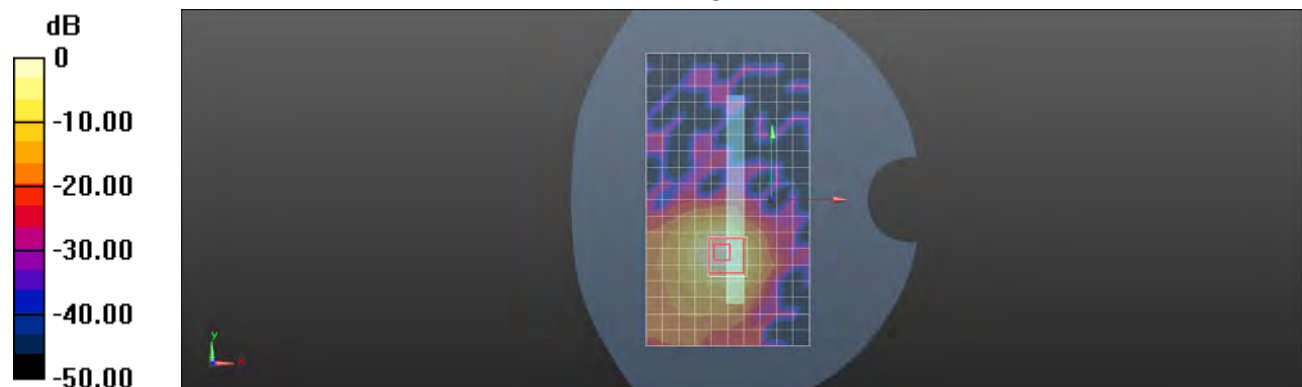
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.363 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.907 mW/g

**SAR(1 g) = 0.506 mW/g; SAR(10 g) = 0.151 mW/g**

Maximum value of SAR (measured) = 0.965 mW/g



0 dB = 0.965 mW/g = -0.31 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11a 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 5.368 \text{ mho/m}$ ;  $\epsilon_r = 48.426$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.881 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

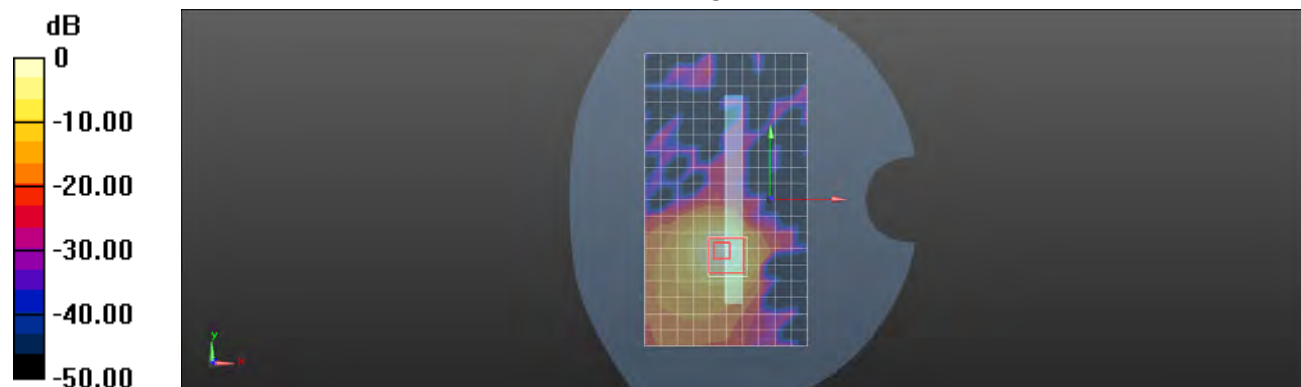
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.141 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.849 mW/g

**SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.144 mW/g**

Maximum value of SAR (measured) = 0.928 mW/g



0 dB = 0.928 mW/g = -0.65 dB mW/g

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Member of SGS Group



Date: 2012/11/26

## RE Cheek\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.584$  mho/m;  $\epsilon_r = 35.215$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0387 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

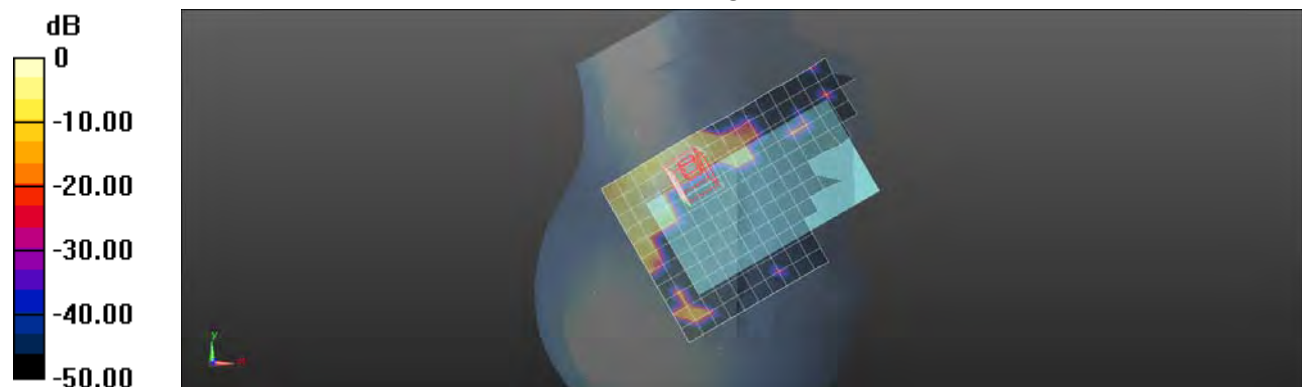
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.037 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.133 mW/g

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00625 mW/g**

Maximum value of SAR (measured) = 0.0631 mW/g



0 dB = 0.0631 mW/g = -24.00 dB mW/g

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Date: 2012/11/26

### RE Tilt\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.584$  mho/m;  $\epsilon_r = 35.215$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0413 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

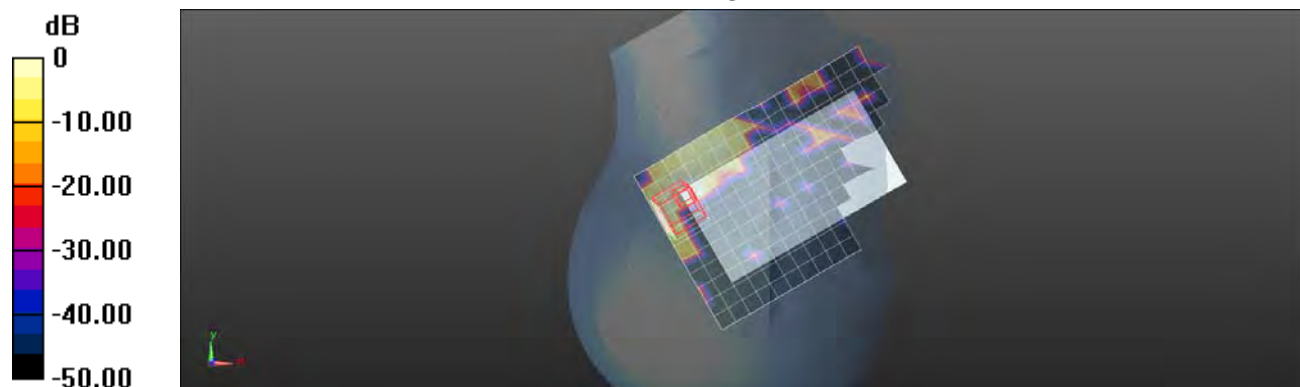
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.357 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.144 mW/g

**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00368 mW/g**

Maximum value of SAR (measured) = 0.0490 mW/g



0 dB = 0.0490 mW/g = -26.20 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11a 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.544$  mho/m;  $\epsilon_r = 35.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.220 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

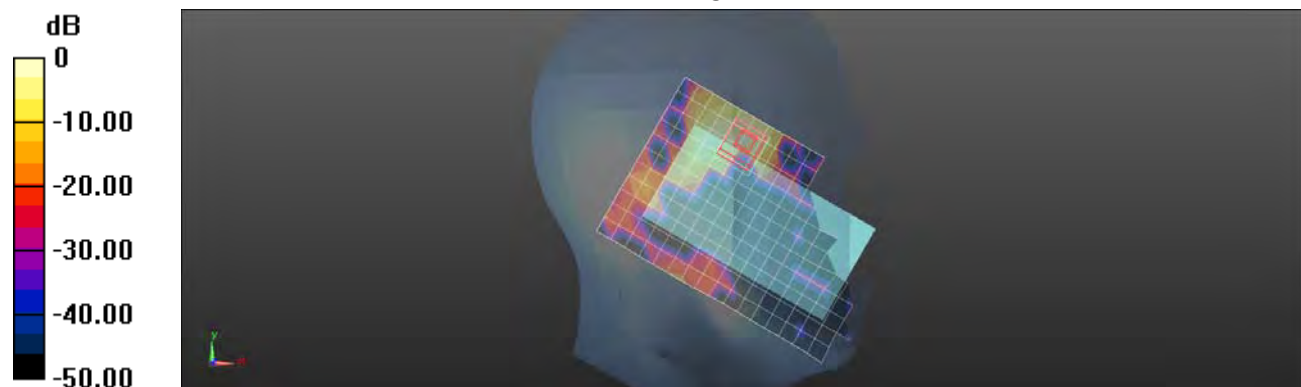
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.528 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.274 mW/g

**SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.035 mW/g**

Maximum value of SAR (measured) = 0.341 mW/g



0 dB = 0.341 mW/g = -9.34 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.584 \text{ mho/m}$ ;  $\epsilon_r = 35.215$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.221 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

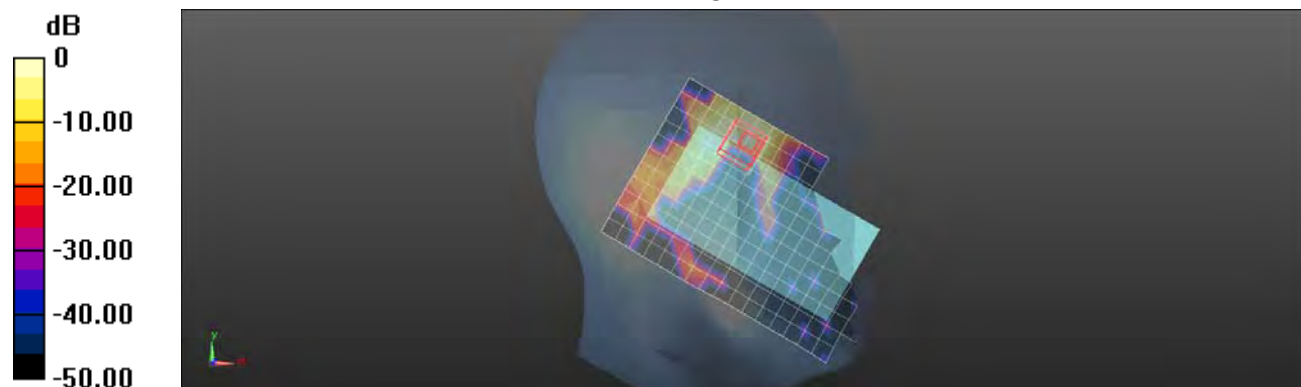
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.173 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.518 mW/g

**SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.031 mW/g**

Maximum value of SAR (measured) = 0.268 mW/g



0 dB = 0.268 mW/g = -11.44 dB mW/g

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Date: 2012/11/26

### LE Tilt\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.584$  mho/m;  $\epsilon_r = 35.215$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0712 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

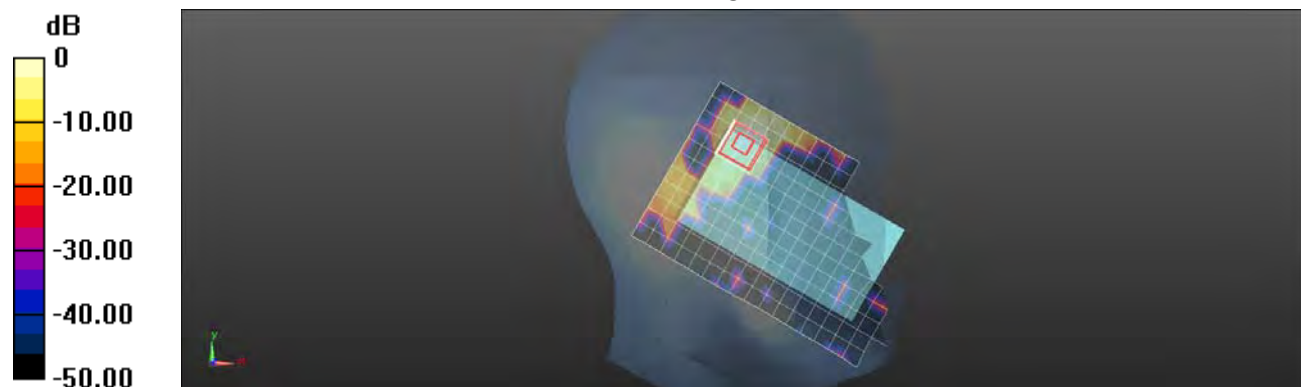
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.659 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.251 mW/g

**SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.0914 mW/g



0 dB = 0.0914 mW/g = -20.78 dB mW/g

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Date: 2012/11/30

### Body-worn\_Front side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.453$  mho/m;  $\epsilon_r = 48.311$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0391 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

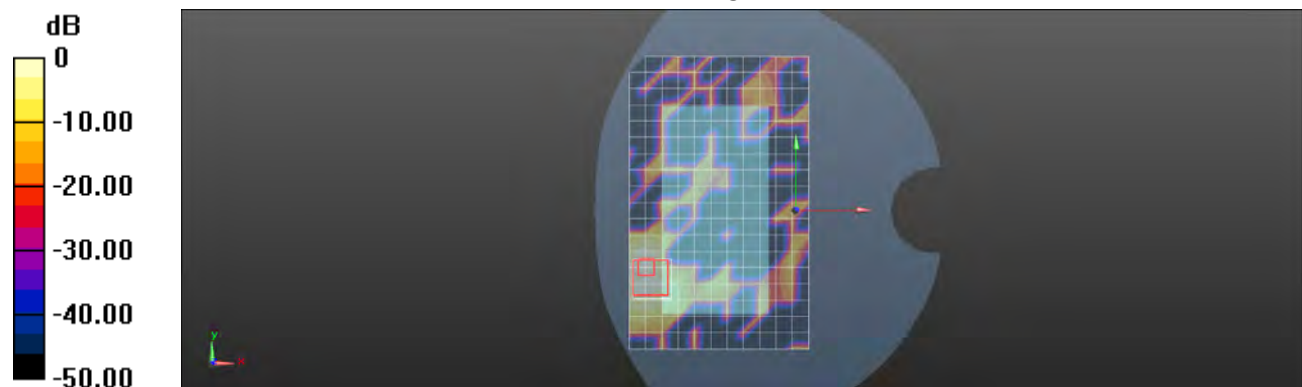
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.397 mW/g

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.0480 mW/g



0 dB = 0.0480 mW/g = -26.38 dB mW/g

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Date: 2012/11/30

### Body-worn\_Back side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.453 \text{ mho/m}$ ;  $\epsilon_r = 48.311$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.412 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

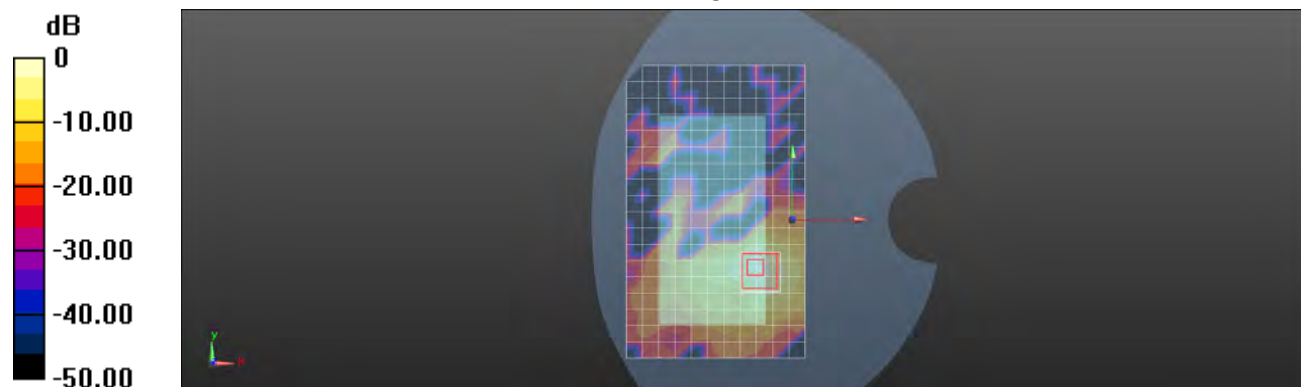
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.871 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.896 mW/g

**SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.072 mW/g**

Maximum value of SAR (measured) = 0.492 mW/g



0 dB = 0.492 mW/g = -6.16 dB mW/g

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Date: 2012/11/30

### Body-worn\_Top side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.453 \text{ mho/m}$ ;  $\epsilon_r = 48.311$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0231 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

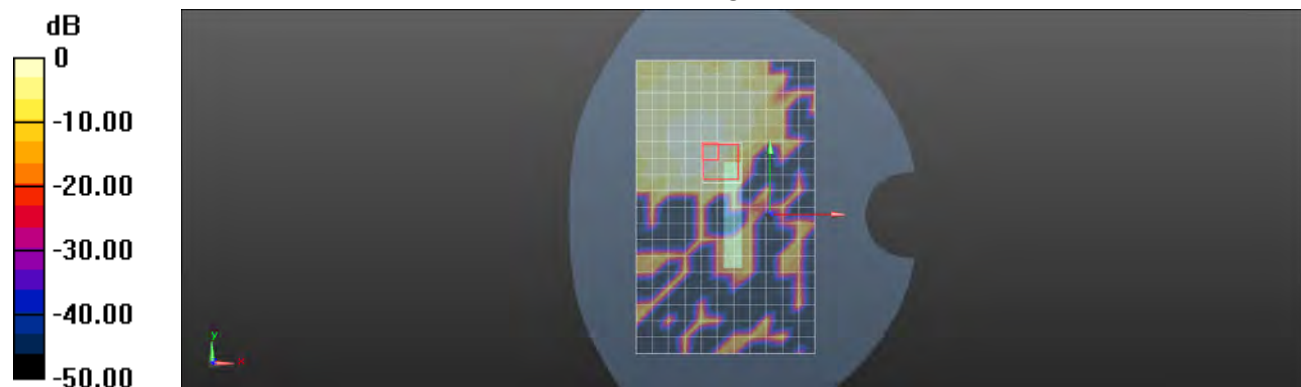
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.173 mW/g

**SAR(1 g) = 0.00494 mW/g; SAR(10 g) = 0.000599 mW/g**

Maximum value of SAR (measured) = 0.0283 mW/g



0 dB = 0.0283 mW/g = -30.96 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11a 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.397$  mho/m;  $\epsilon_r = 48.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.675 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

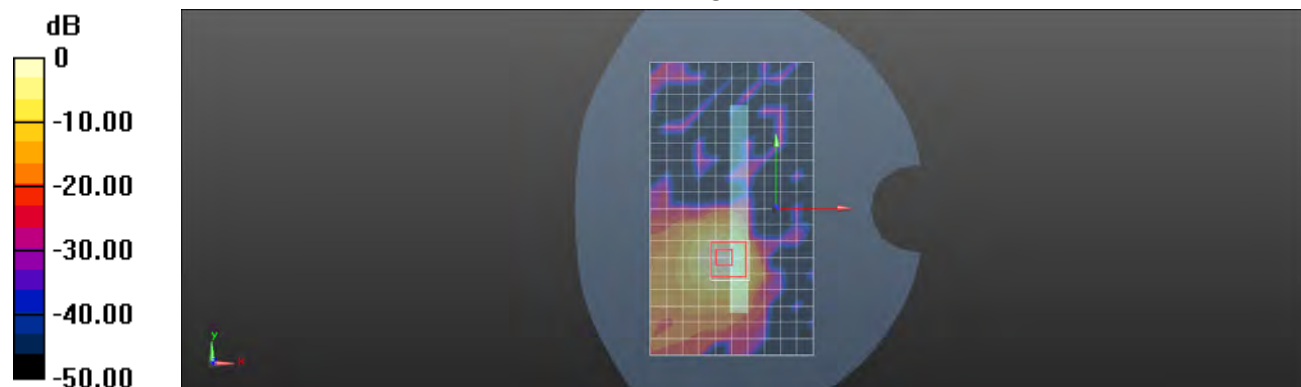
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.683 mW/g

**SAR(1 g) = 0.431 mW/g; SAR(10 g) = 0.124 mW/g**

Maximum value of SAR (measured) = 0.830 mW/g



0 dB = 0.830 mW/g = -1.62 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 5.453 \text{ mho/m}$ ;  $\epsilon_r = 48.311$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.669 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

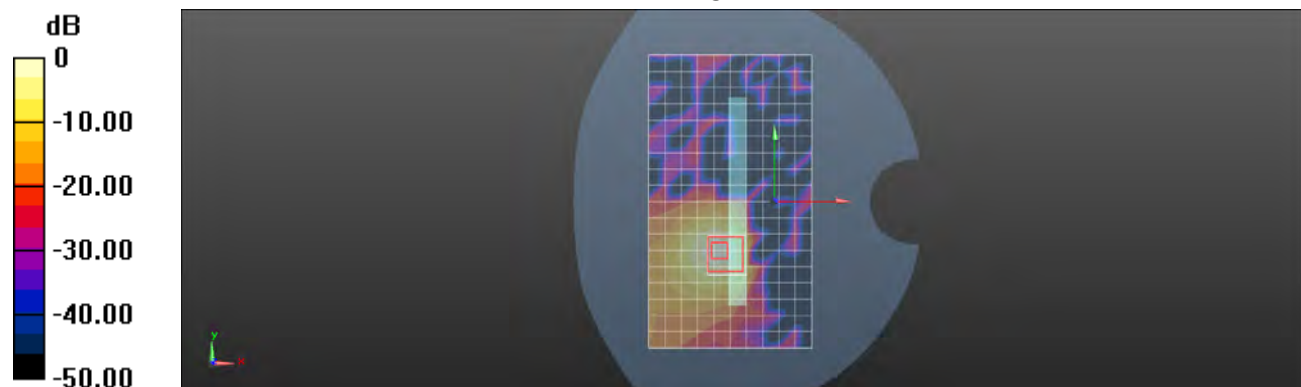
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.531 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.502 mW/g

**SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.106 mW/g**

Maximum value of SAR (measured) = 0.741 mW/g



0 dB = 0.741 mW/g = -2.60 dB mW/g

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Date: 2012/12/3

### RE Cheek\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.107 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

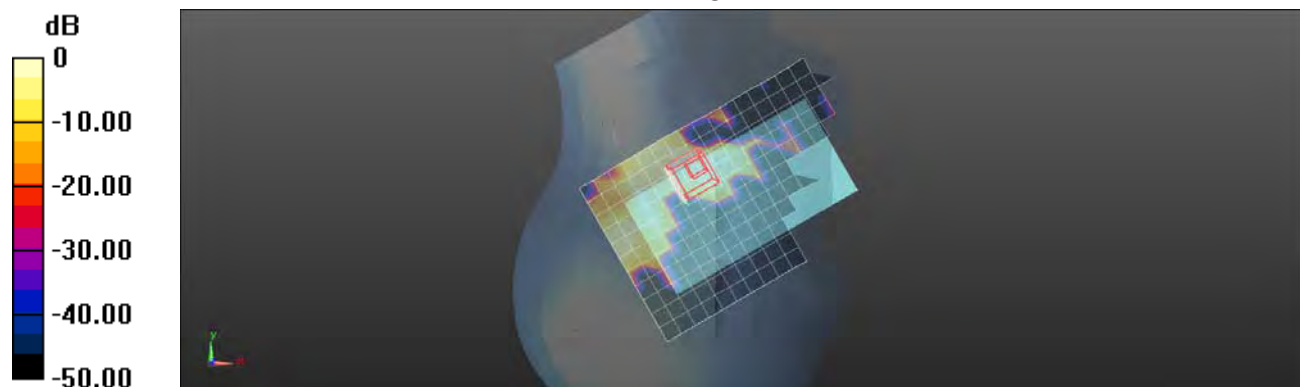
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.471 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.228 mW/g

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.116 mW/g



0 dB = 0.116 mW/g = -18.71 dB mW/g

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Date: 2012/12/3

## RE Tilt\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.121 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

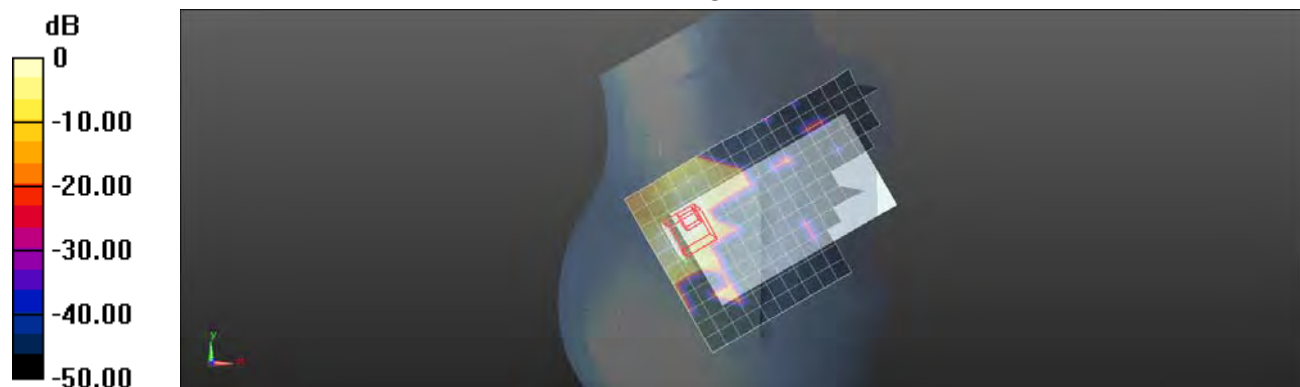
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.477 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.439 mW/g

**SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.112 mW/g



0 dB = 0.112 mW/g = -19.02 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.818$  mho/m;  $\epsilon_r = 34.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.220 mW/g

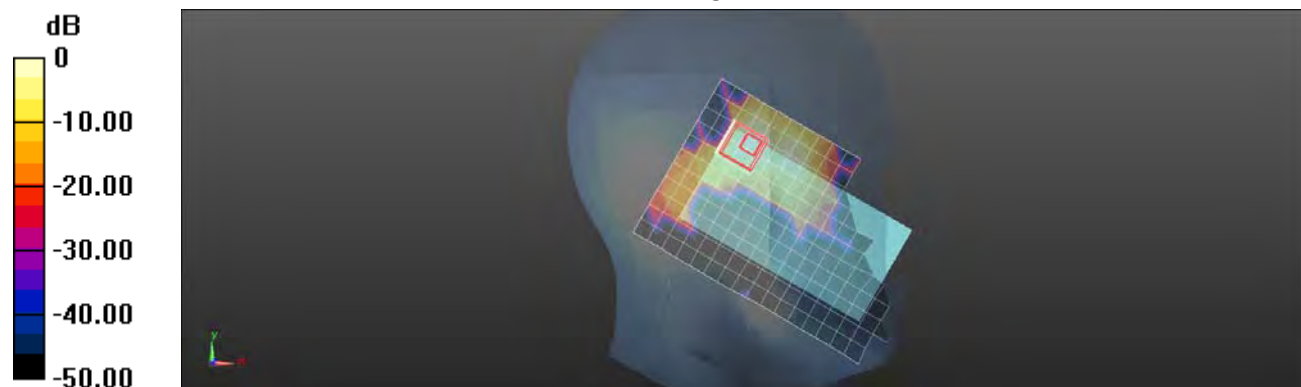
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.873 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.551 mW/g

**SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.039 mW/g**

Maximum value of SAR (measured) = 0.285 mW/g



0 dB = 0.285 mW/g = -10.90 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 4.902 \text{ mho/m}$ ;  $\epsilon_r = 34.603$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.363 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

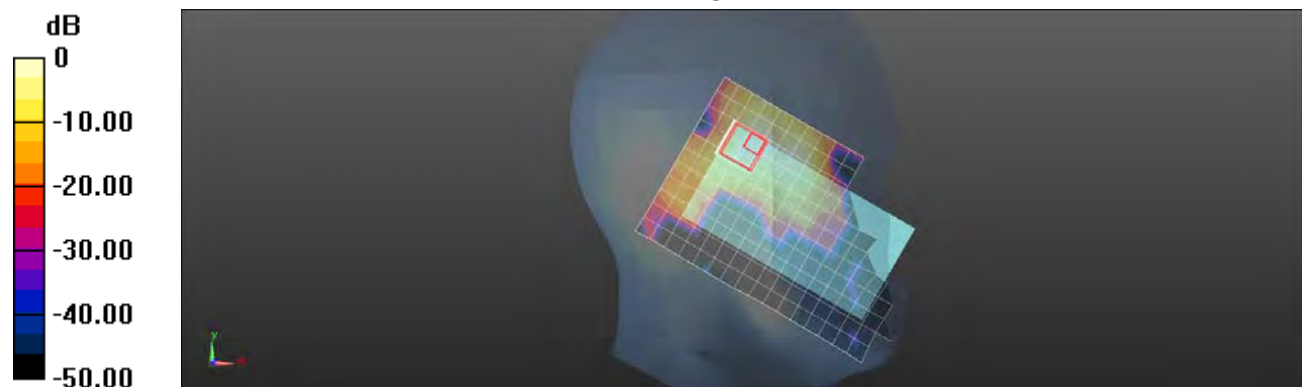
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.748 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.012 mW/g

**SAR(1 g) = 0.244 mW/g; SAR(10 g) = 0.070 mW/g**

Maximum value of SAR (measured) = 0.473 mW/g



0 dB = 0.473 mW/g = -6.50 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 4.943$  mho/m;  $\epsilon_r = 34.525$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.363 mW/g

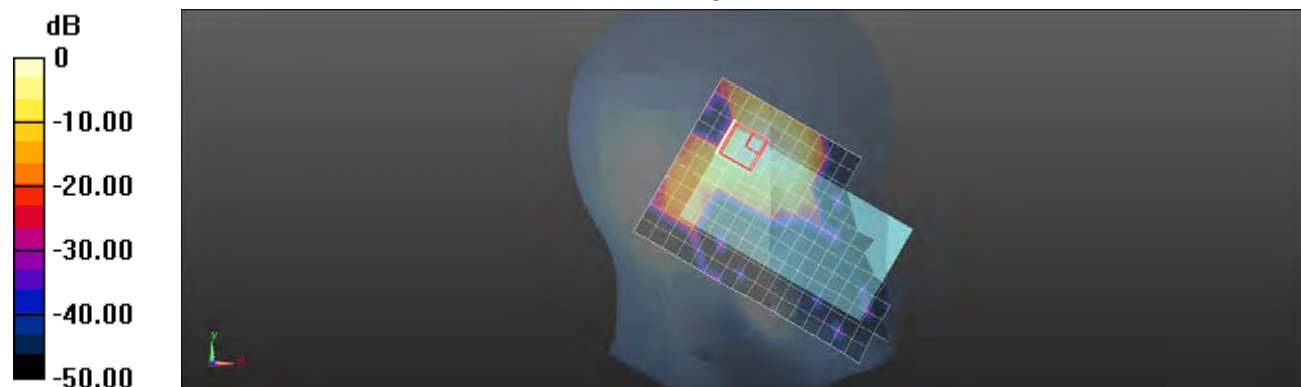
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.646 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.892 mW/g

**SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.056 mW/g**

Maximum value of SAR (measured) = 0.406 mW/g



0 dB = 0.406 mW/g = -7.83 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11a 5.5G\_CH136

Communication System: WLAN 5G (FCC); Frequency: 5680 MHz

Medium parameters used:  $f = 5680$  MHz;  $\sigma = 5.014$  mho/m;  $\epsilon_r = 34.396$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.223 mW/g

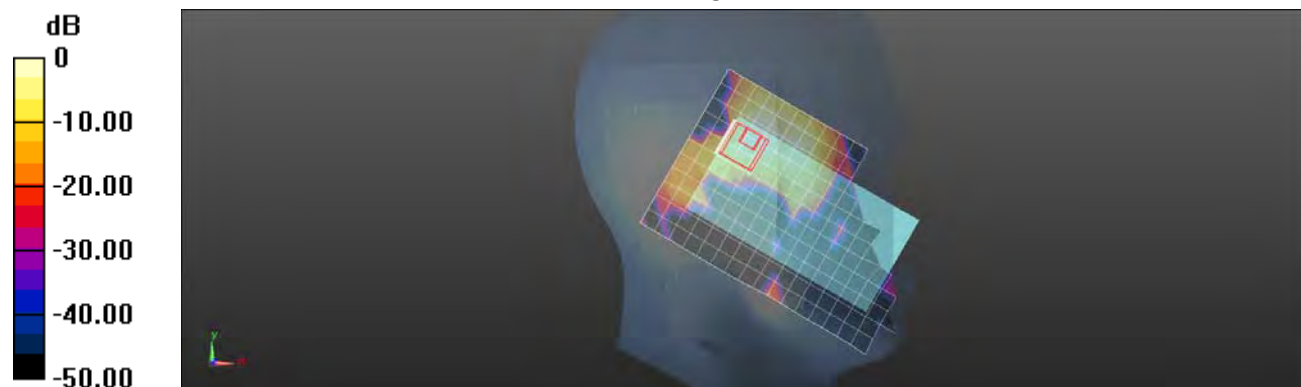
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.896 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.518 mW/g

**SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.268 mW/g



0 dB = 0.268 mW/g = -11.44 dB mW/g

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Date: 2012/12/3

### LE Tilt\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.252 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

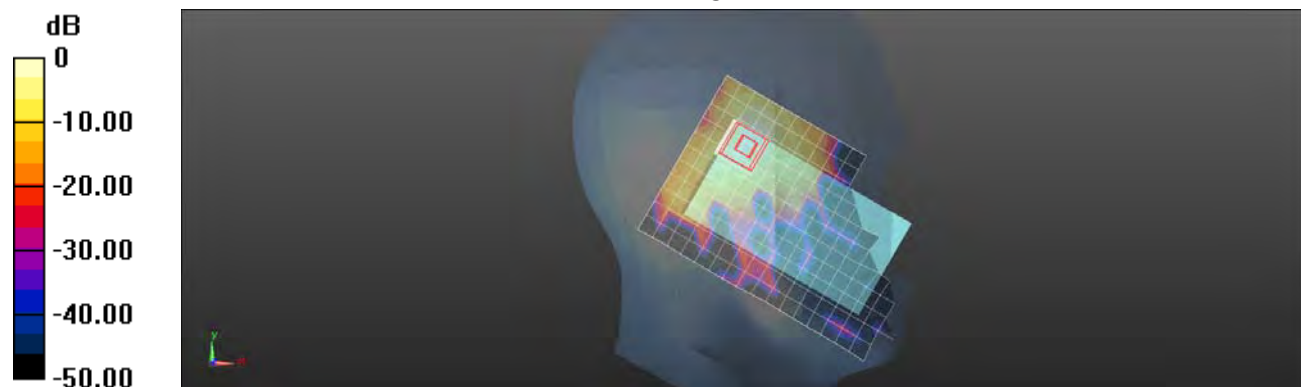
dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.449 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.539 mW/g

**SAR(1 g) = 0.139 mW/g; SAR(10 g) = 0.044 mW/g**

Maximum value of SAR (measured) = 0.281 mW/g



0 dB = 0.281 mW/g = -11.03 dB mW/g

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Date: 2012/12/10

### Body-worn\_Front side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0725 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

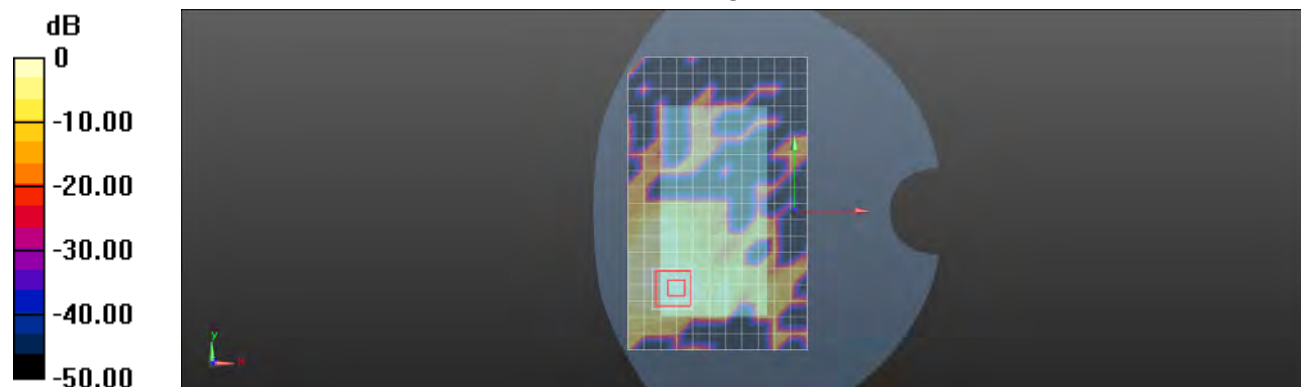
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.383 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.173 mW/g

**SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.0776 mW/g



0 dB = 0.0776 mW/g = -22.20 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.741$  mho/m;  $\epsilon_r = 47.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.435 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

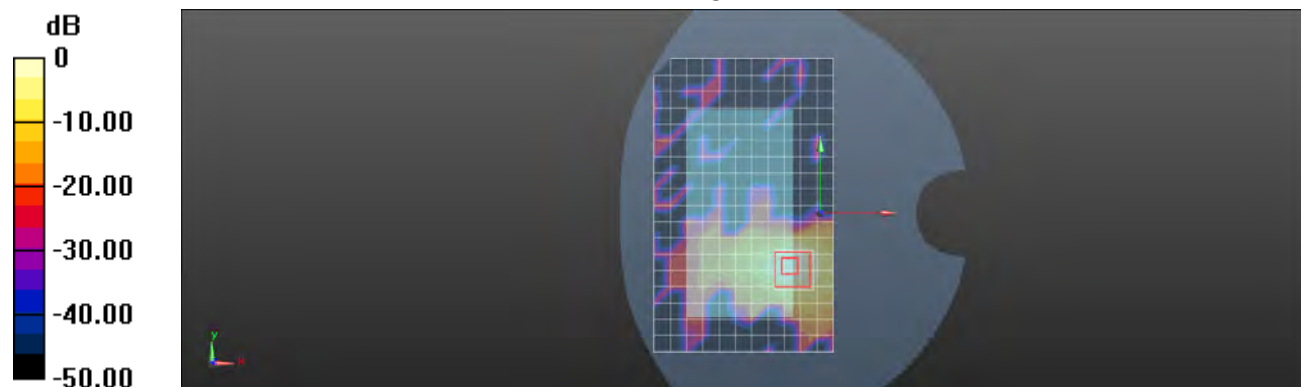
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.931 mW/g

**SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.075 mW/g**

Maximum value of SAR (measured) = 0.463 mW/g



0 dB = 0.463 mW/g = -6.69 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.858 \text{ mho/m}$ ;  $\epsilon_r = 47.725$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.17 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

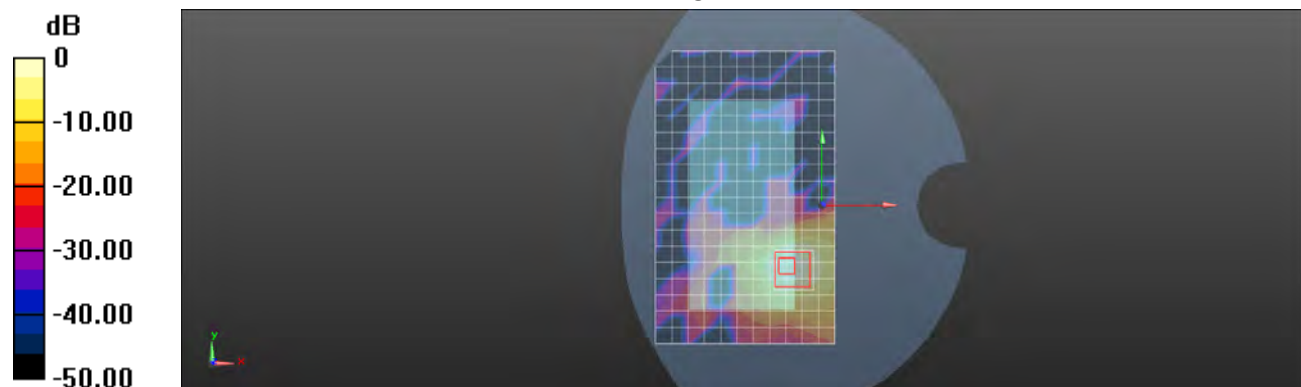
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.514 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.499 mW/g

**SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.203 mW/g**

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21 mW/g = 1.66 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.915$  mho/m;  $\epsilon_r = 47.672$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.22 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

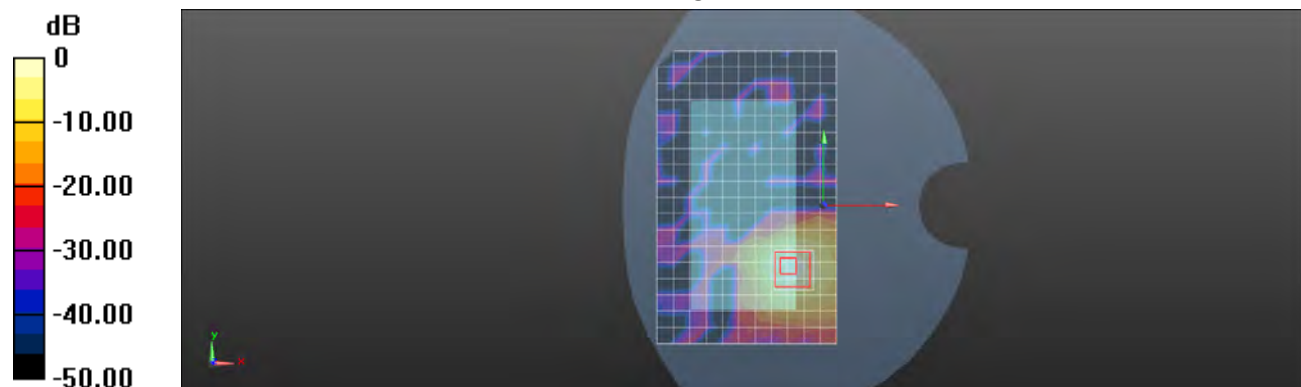
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.710 mW/g

**SAR(1 g) = 0.678 mW/g; SAR(10 g) = 0.215 mW/g**

Maximum value of SAR (measured) = 1.32 mW/g

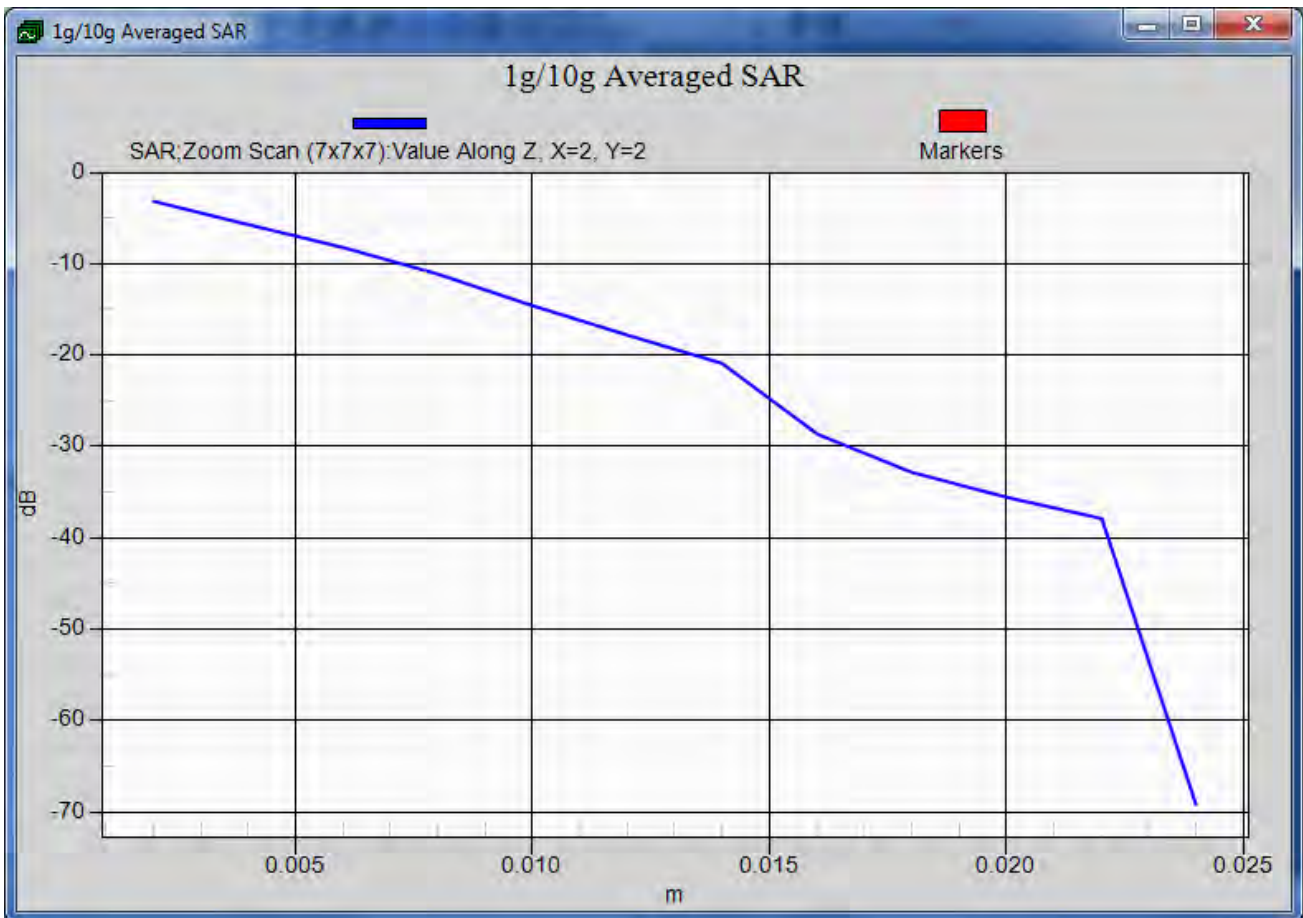


0 dB = 1.32 mW/g = 2.41 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11a 5.5G\_CH136

Communication System: WLAN 5G (FCC); Frequency: 5680 MHz

Medium parameters used:  $f = 5680 \text{ MHz}$ ;  $\sigma = 6.003 \text{ mho/m}$ ;  $\epsilon_r = 47.53$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.916 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

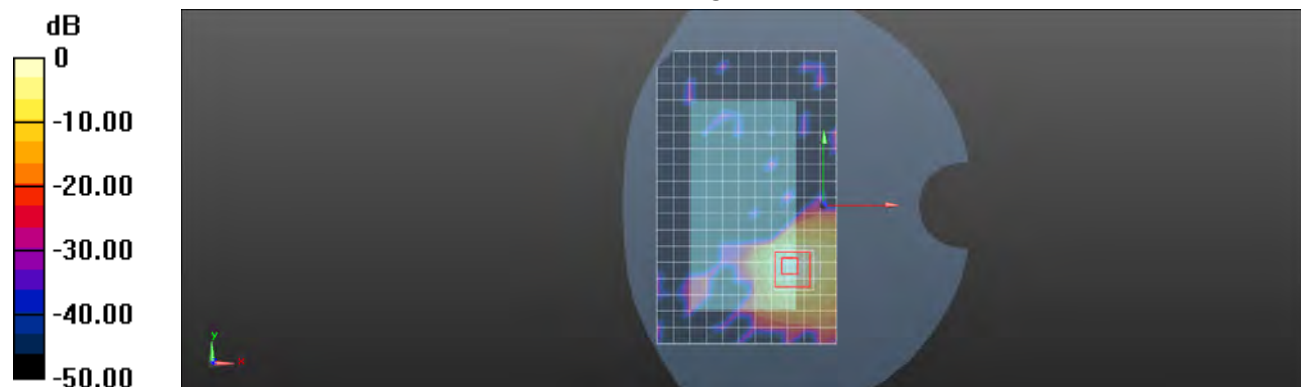
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.903 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.760 mW/g

**SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 0.959 mW/g



0 dB = 0.959 mW/g = -0.36 dB mW/g

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Date: 2012/12/10

## Body-worn\_Back side\_WLAN802.11a 5.5G\_CH124\_repeated with external Memory card inside

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.915$  mho/m;  $\epsilon_r = 47.672$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.22 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

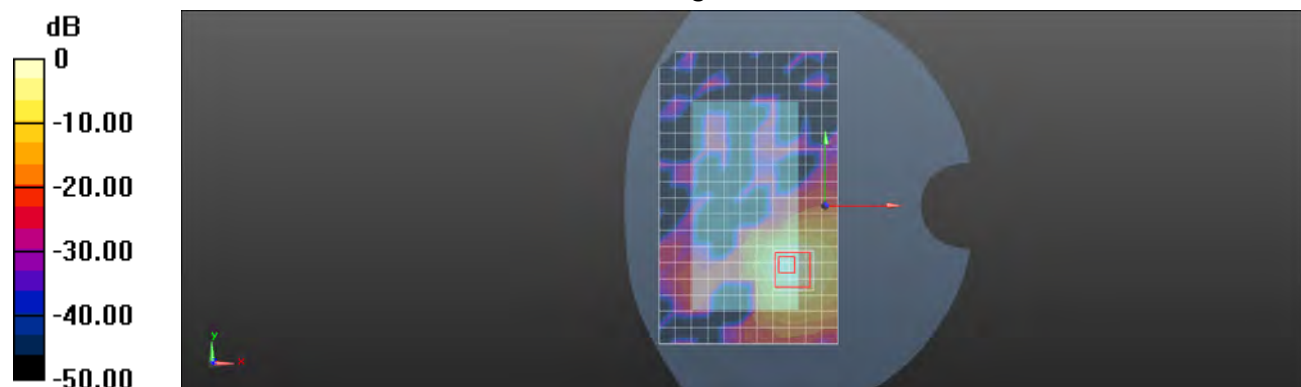
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.345 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.574 mW/g

**SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.203 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27 mW/g = 2.08 dB mW/g

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Date: 2012/12/10

## Body-worn\_Back side\_WLAN802.11a 5.5G\_CH124\_repeated with Bluetooth active

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.915$  mho/m;  $\epsilon_r = 47.672$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.14 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

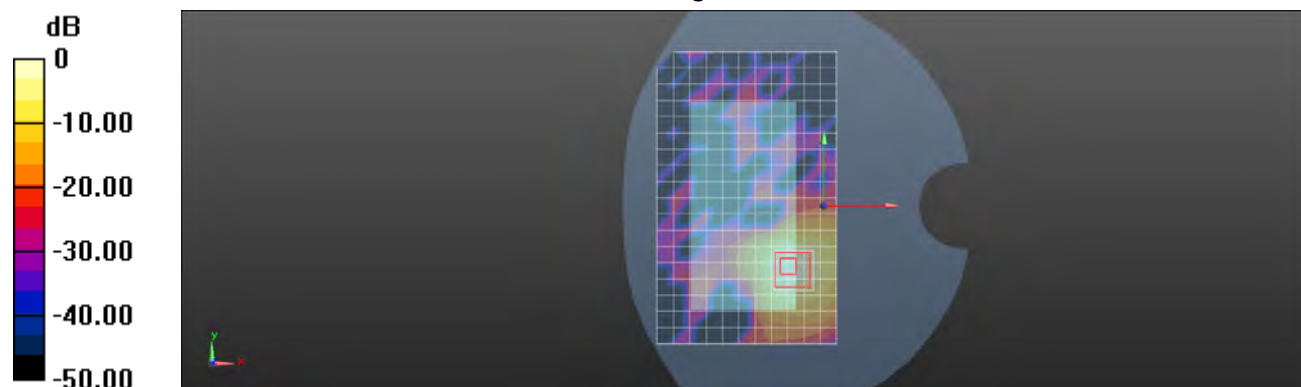
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.244 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.319 mW/g

**SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.193 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



0 dB = 1.20 mW/g = 1.58 dB mW/g

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Date: 2012/12/10

## Body-worn\_Back side\_WLAN802.11a 5.5G\_CH124\_repeated with headset (MH410C)

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.915$  mho/m;  $\epsilon_r = 47.672$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.949 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

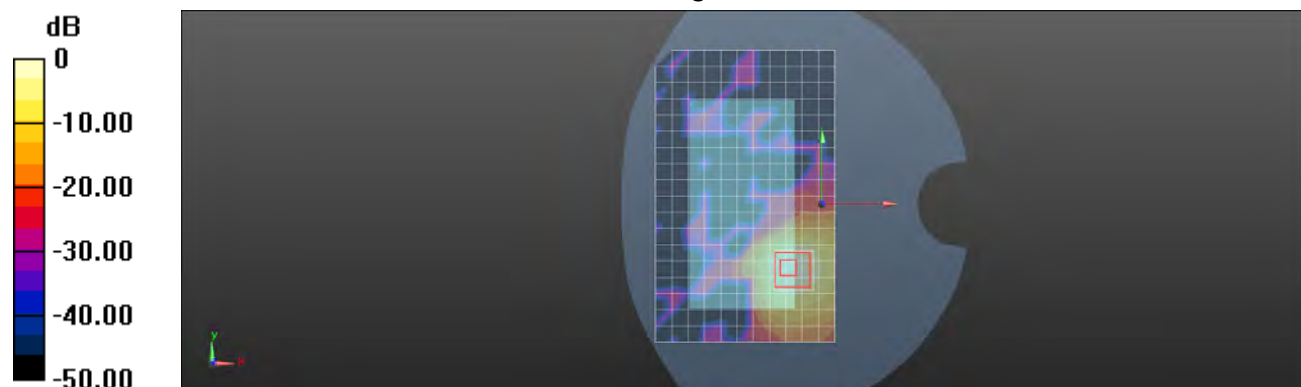
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.061 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.260 mW/g

**SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.182 mW/g**

Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10 mW/g = 0.83 dB mW/g

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Date: 2012/12/10

### Body-worn\_Top side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0545 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

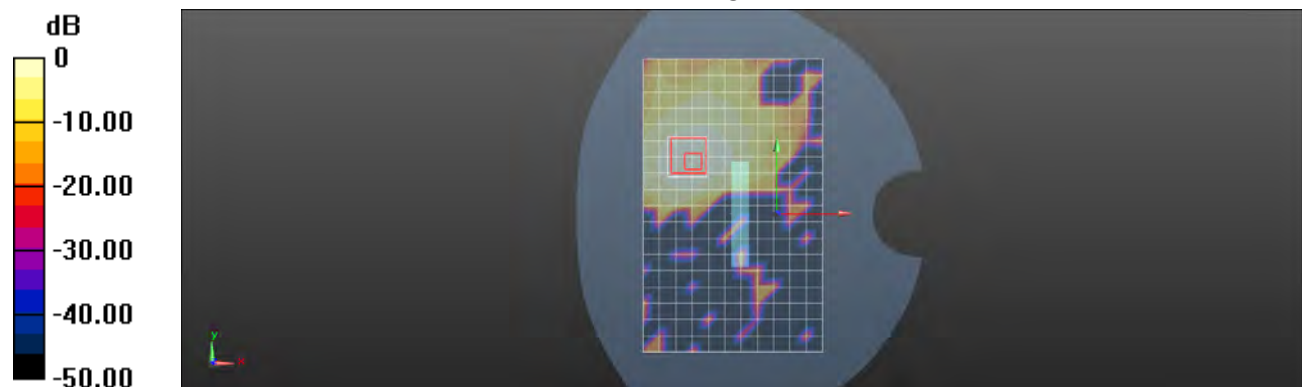
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.368 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.224 mW/g

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00898 mW/g**

Maximum value of SAR (measured) = 0.0619 mW/g



0 dB = 0.0619 mW/g = -24.17 dB mW/g

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Date: 2012/12/10

### Body-worn\_Right side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.549 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

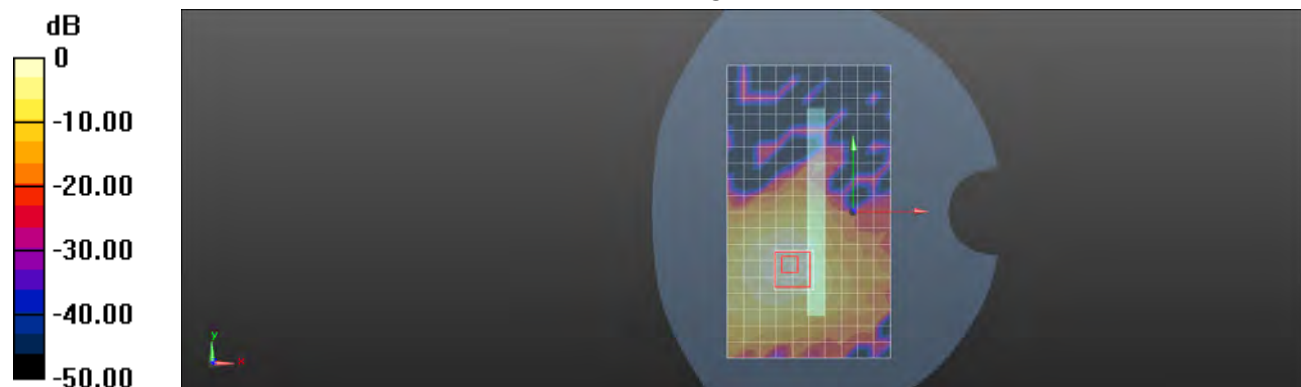
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 2.059 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.182 mW/g

**SAR(1 g) = 0.307 mW/g; SAR(10 g) = 0.113 mW/g**

Maximum value of SAR (measured) = 0.561 mW/g



0 dB = 0.561 mW/g = -5.02 dB mW/g

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Date: 2012/12/11

### RE Cheek\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.176$  mho/m;  $\epsilon_r = 34.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0741 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

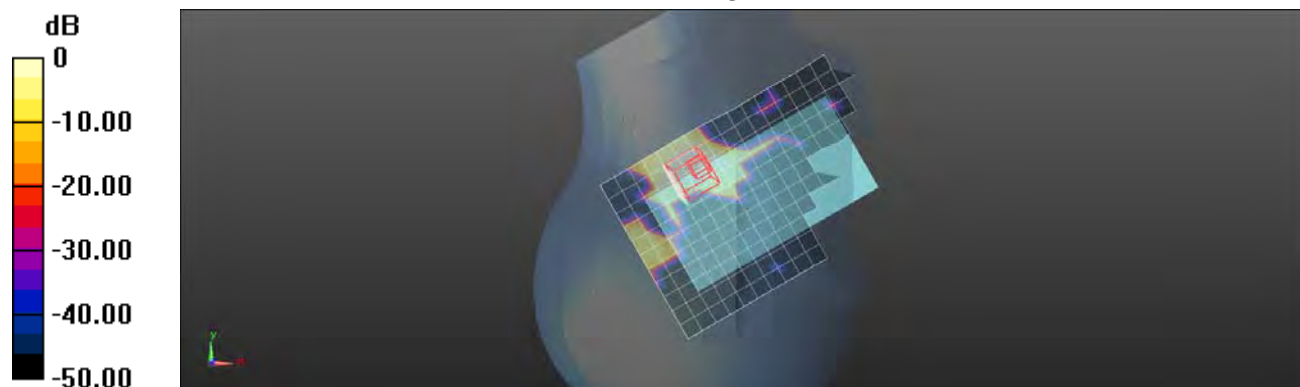
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.560 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.377 mW/g

**SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.012 mW/g**

Maximum value of SAR (measured) = 0.0710 mW/g



0 dB = 0.0710 mW/g = -22.97 dB mW/g

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Date: 2012/12/11

## RE Tilt\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.176$  mho/m;  $\epsilon_r = 34.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0303 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

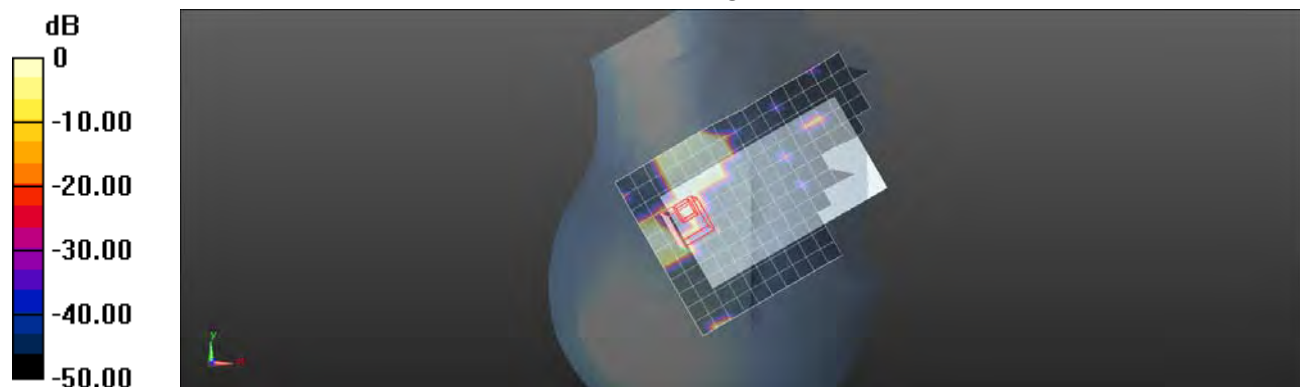
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.327 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.134 mW/g

**SAR(1 g) = 0.00556 mW/g; SAR(10 g) = 0.000581 mW/g**

Maximum value of SAR (measured) = 0.0213 mW/g



0 dB = 0.0213 mW/g = -33.43 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.083 \text{ mho/m}$ ;  $\epsilon_r = 34.274$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.272 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

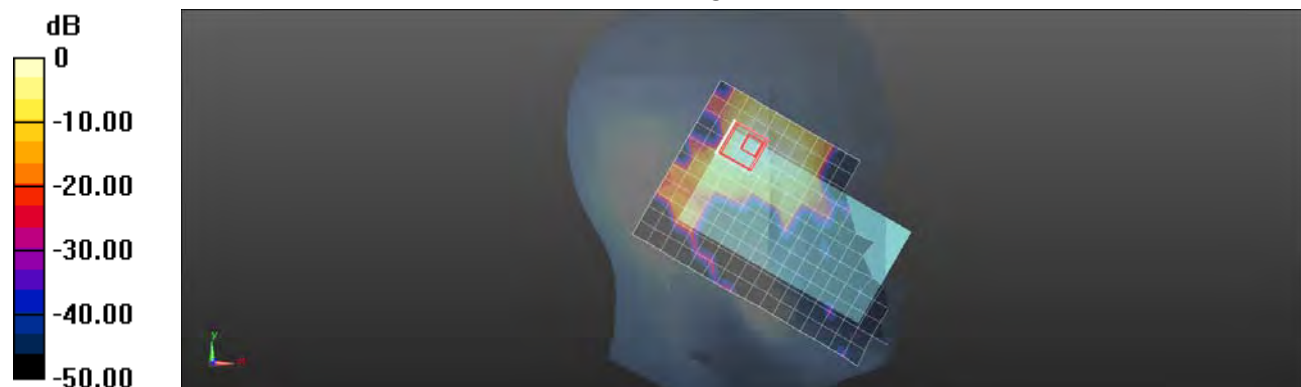
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.976 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.611 mW/g

**SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.045 mW/g**

Maximum value of SAR (measured) = 0.308 mW/g



0 dB = 0.308 mW/g = -10.23 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11a 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.132$  mho/m;  $\epsilon_r = 34.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.288 mW/g

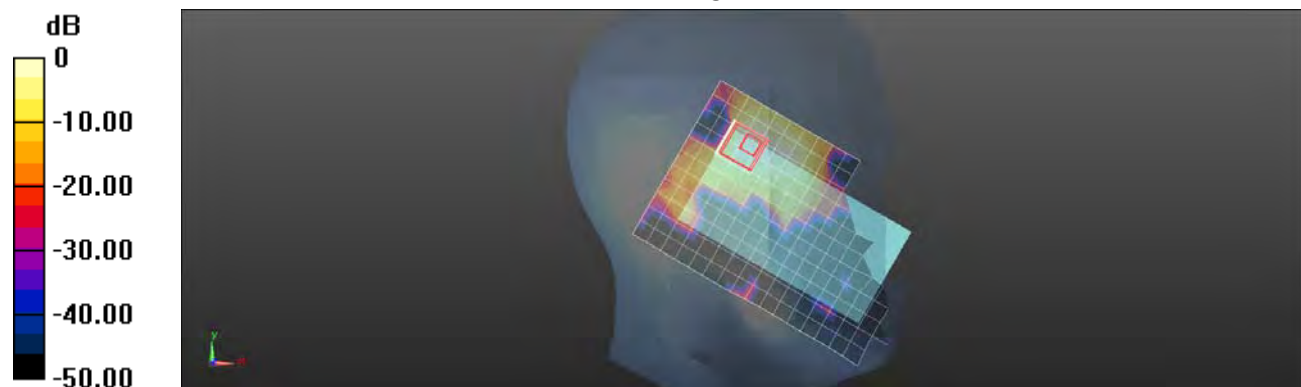
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.858 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.633 mW/g

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.046 mW/g**

Maximum value of SAR (measured) = 0.313 mW/g



0 dB = 0.313 mW/g = -10.09 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.176$  mho/m;  $\epsilon_r = 34.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.231 mW/g

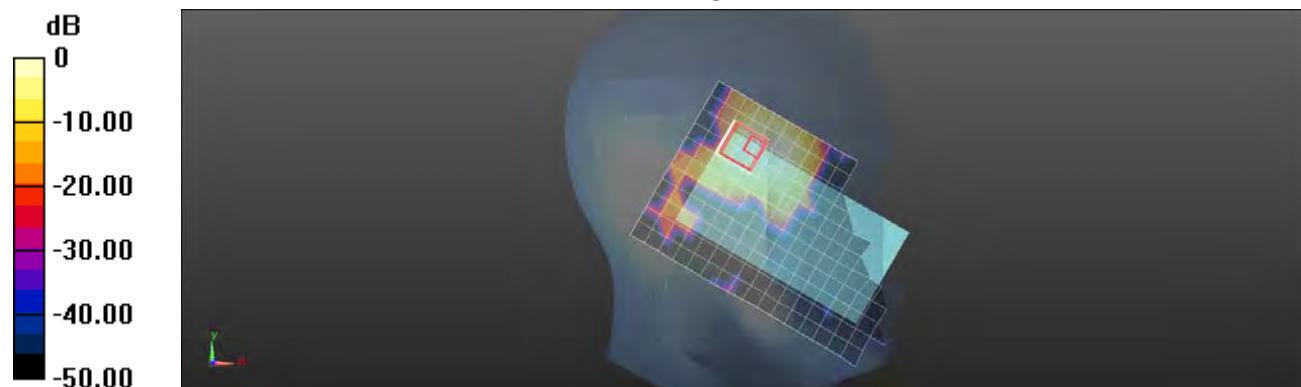
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.474 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.564 mW/g

**SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.265 mW/g



0 dB = 0.265 mW/g = -11.54 dB mW/g

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Date: 2012/12/11

### LE Tilt\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.176 \text{ mho/m}$ ;  $\epsilon_r = 34.103$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0656 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

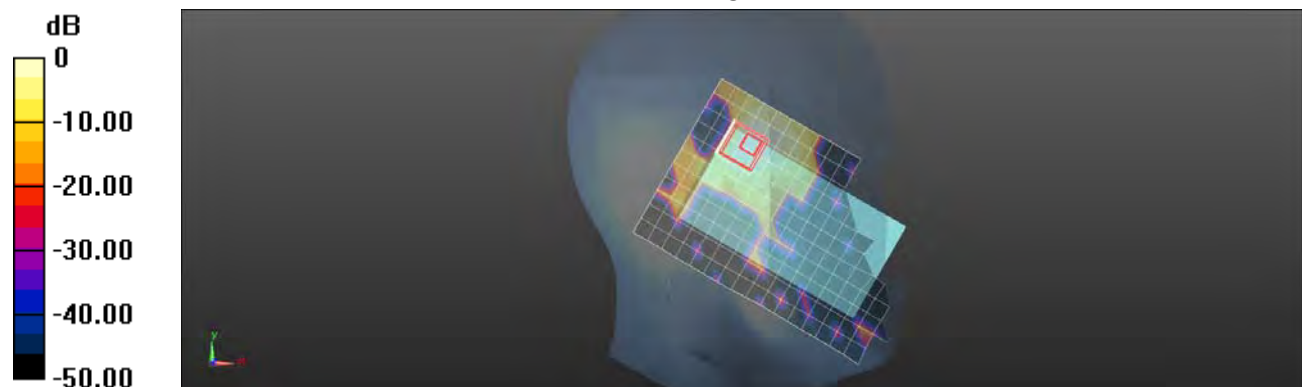
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.349 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.250 mW/g

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.0847 mW/g



0 dB = 0.0847 mW/g = -21.44 dB mW/g

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Date: 2012/12/12

### Body-worn\_Front side\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.218$  mho/m;  $\epsilon_r = 47.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0275 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

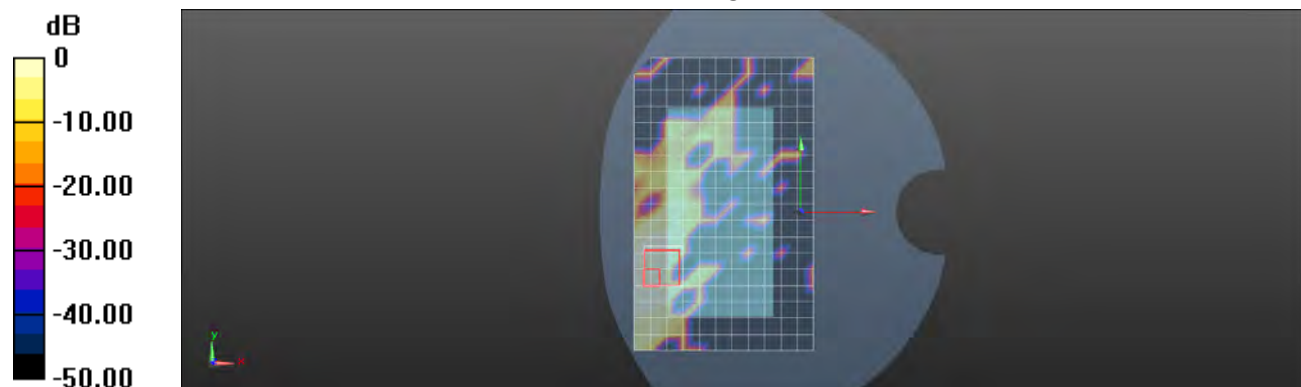
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.222 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00522 mW/g**

Maximum value of SAR (measured) = 0.0299 mW/g



0 dB = 0.0299 mW/g = -30.49 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.092 \text{ mho/m}$ ;  $\epsilon_r = 47.437$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.474 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

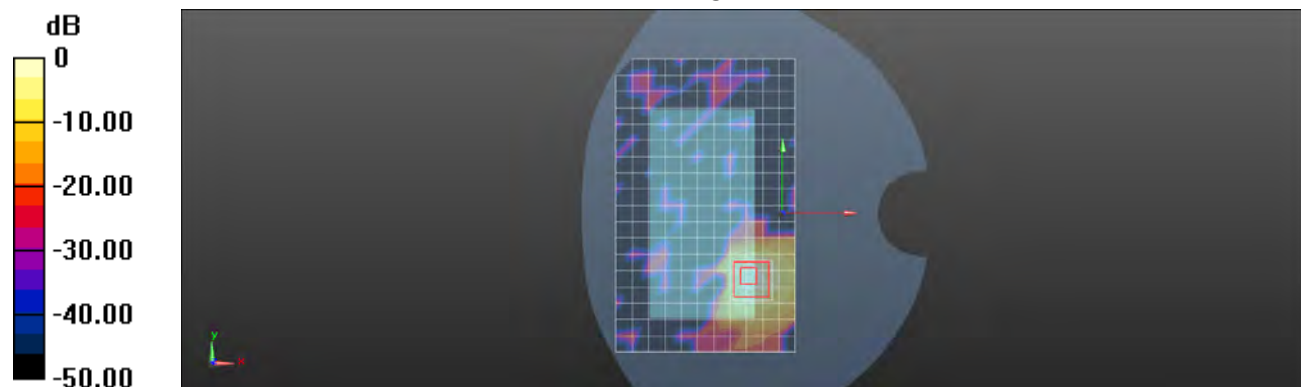
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.710 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.306 mW/g

**SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.537 mW/g



0 dB = 0.537 mW/g = -5.40 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11a 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 6.156 \text{ mho/m}$ ;  $\epsilon_r = 47.334$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.376 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

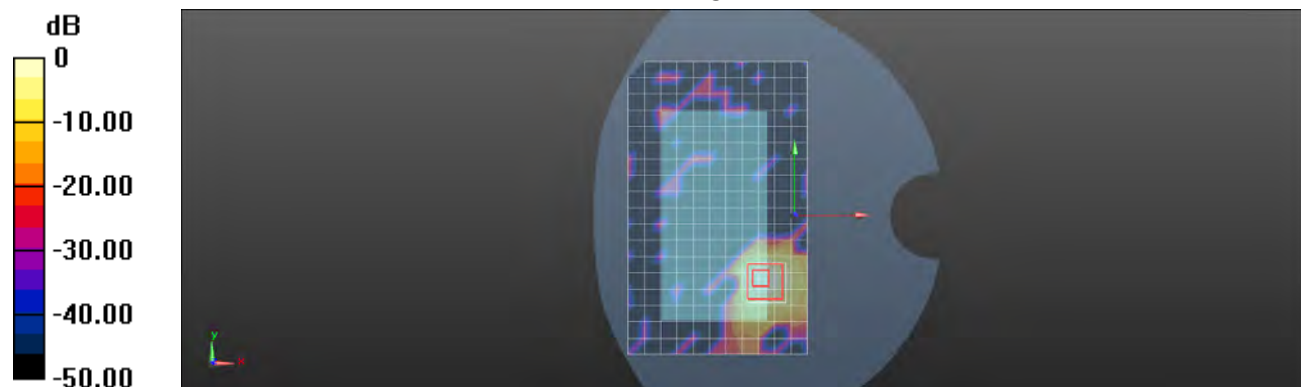
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.507 V/m; Power Drift = 2.11 dB

Peak SAR (extrapolated) = 0.800 mW/g

**SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.063 mW/g**

Maximum value of SAR (measured) = 0.431 mW/g



0 dB = 0.431 mW/g = -7.31 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.218$  mho/m;  $\epsilon_r = 47.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.354 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

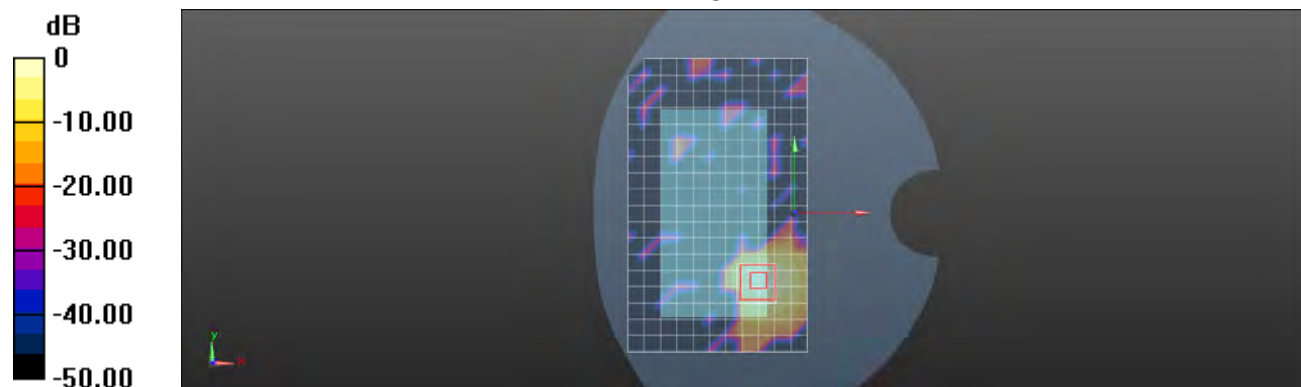
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.286 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.828 mW/g

**SAR(1 g) = 0.207 mW/g; SAR(10 g) = 0.061 mW/g**

Maximum value of SAR (measured) = 0.441 mW/g



0 dB = 0.441 mW/g = -7.11 dB mW/g

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Date: 2012/12/12

### Body-worn\_Top side\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 6.218 \text{ mho/m}$ ;  $\epsilon_r = 47.277$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0231 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

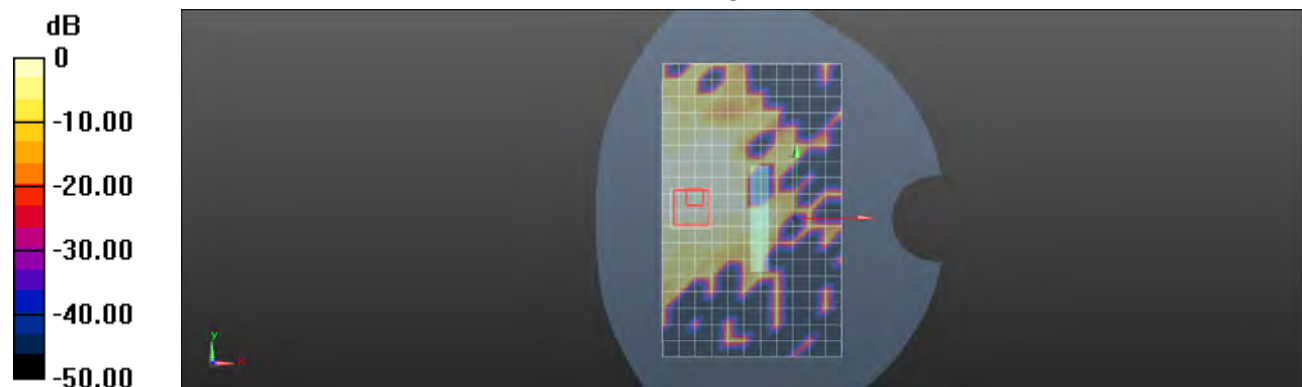
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.047 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.186 mW/g

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.0043 mW/g**

Maximum value of SAR (measured) = 0.0244 mW/g



0 dB = 0.0244 mW/g = -32.25 dB mW/g

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Date: 2012/12/12

### Body-worn\_Right side\_WLAN802.11a 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.218$  mho/m;  $\epsilon_r = 47.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.225 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

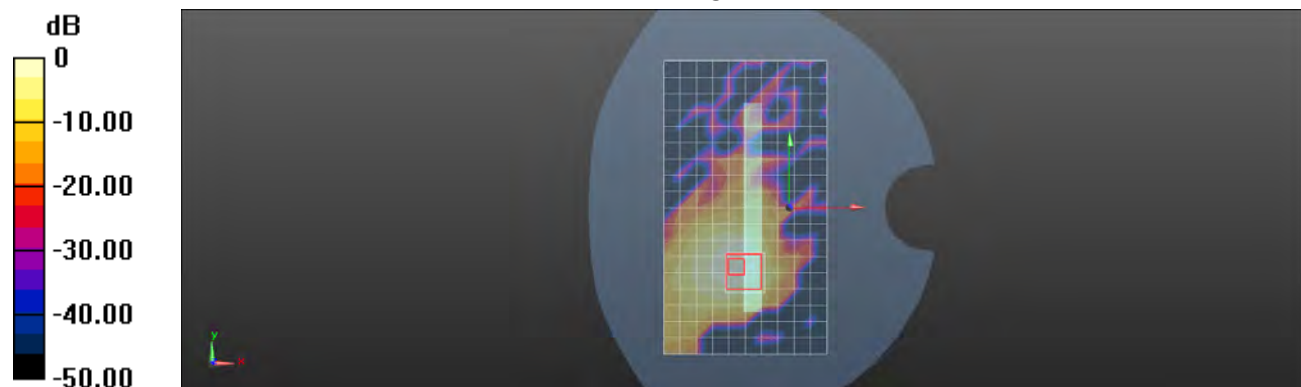
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.501 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.452 mW/g

**SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.040 mW/g**

Maximum value of SAR (measured) = 0.261 mW/g



0 dB = 0.261 mW/g = -11.67 dB mW/g

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Date: 2012/11/21

### RE Cheek\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.455$  mho/m;  $\epsilon_r = 35.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0790 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

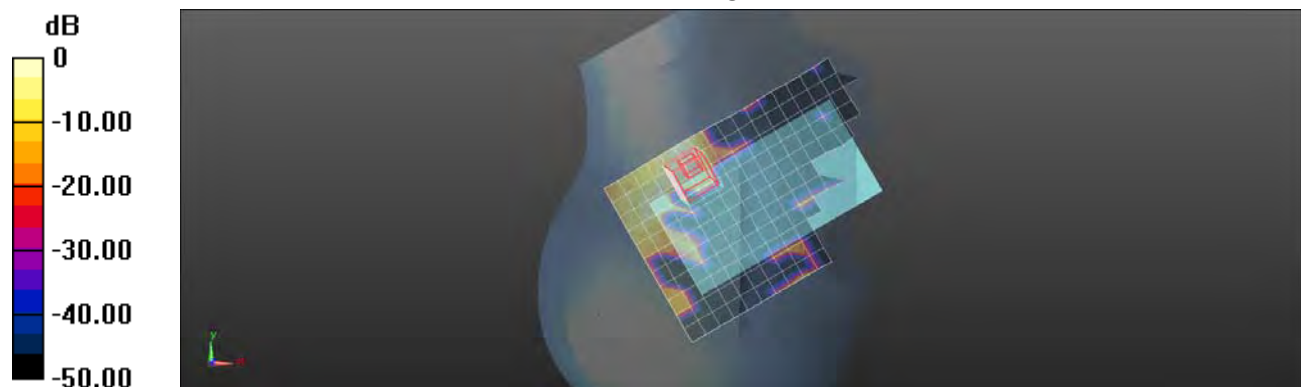
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.148 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.186 mW/g

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.0909 mW/g



0 dB = 0.0909 mW/g = -20.83 dB mW/g

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Date: 2012/11/21

### RE Tilt\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.455 \text{ mho/m}$ ;  $\epsilon_r = 35.463$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0382 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

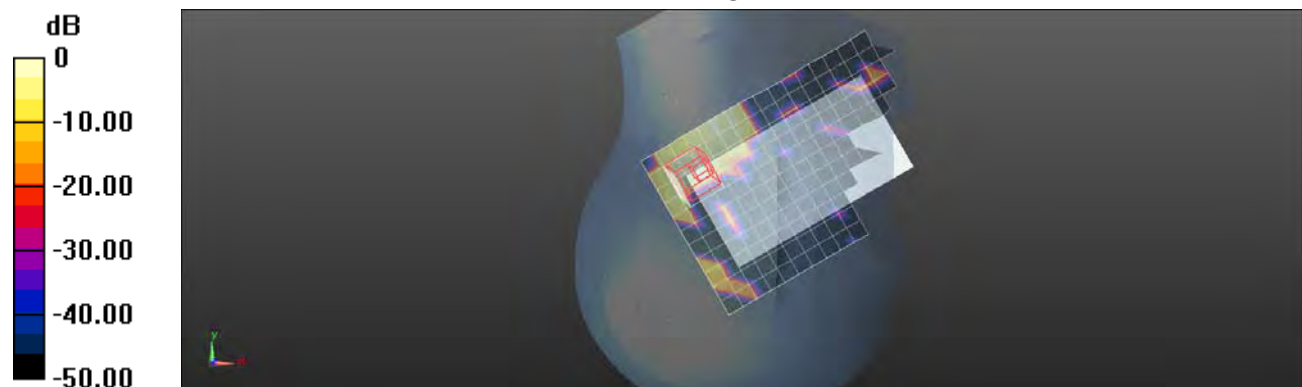
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.366 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.195 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00575 mW/g**

Maximum value of SAR (measured) = 0.0444 mW/g



0 dB = 0.0444 mW/g = -27.05 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.455$  mho/m;  $\epsilon_r = 35.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.332 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

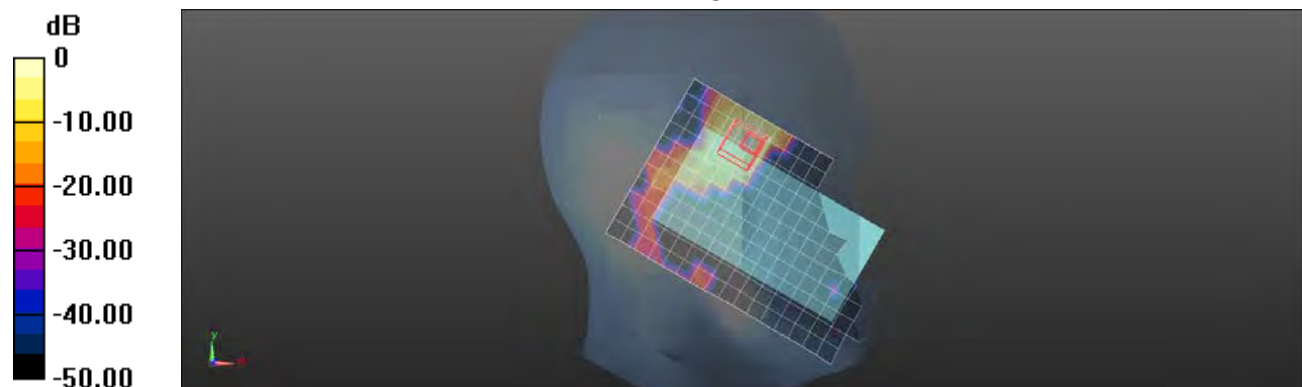
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.624 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.688 mW/g

**SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.042 mW/g**

Maximum value of SAR (measured) = 0.403 mW/g



0 dB = 0.403 mW/g = -7.89 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.52 \text{ mho/m}$ ;  $\epsilon_r = 35.329$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.235 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

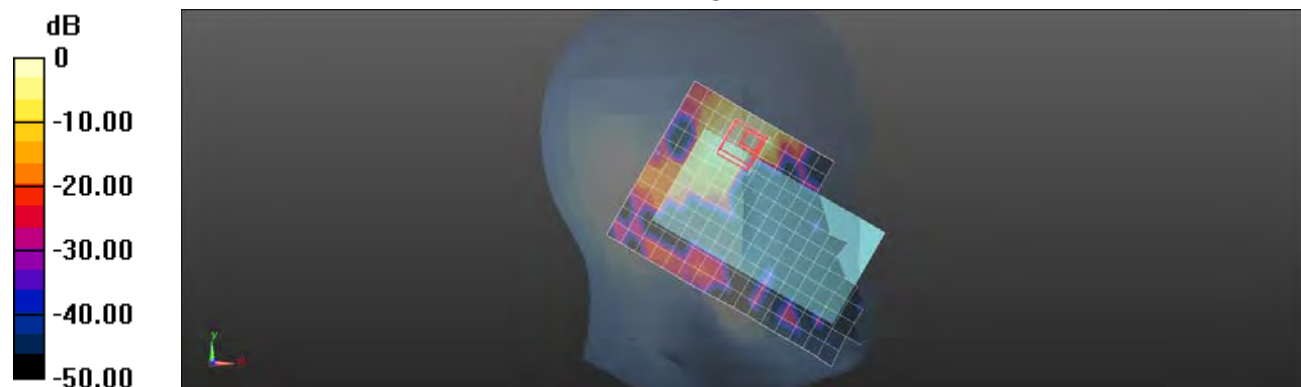
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.092 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.586 mW/g

**SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.039 mW/g**

Maximum value of SAR (measured) = 0.356 mW/g



0 dB = 0.356 mW/g = -8.97 dB mW/g

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Date: 2012/11/21

### LE Tilt\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.455$  mho/m;  $\epsilon_r = 35.463$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0526 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

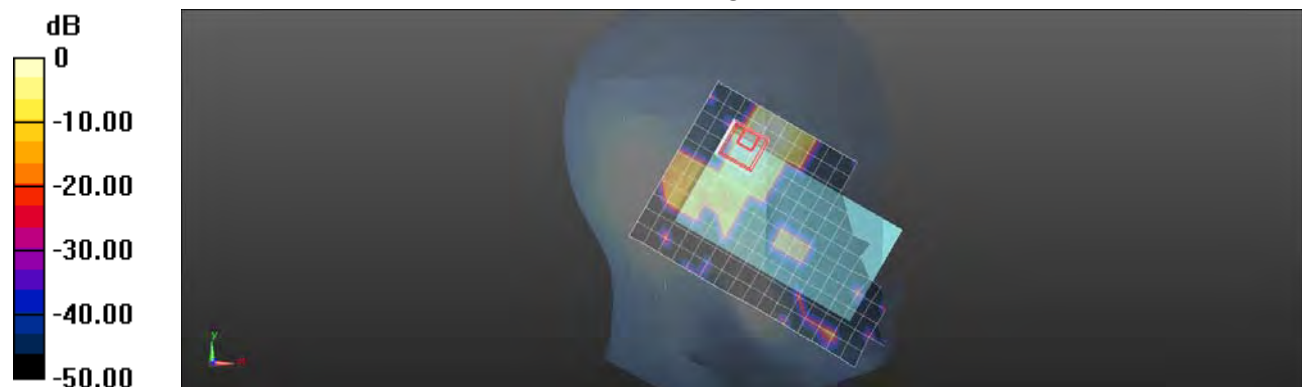
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.639 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.385 mW/g

**SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.00856 mW/g**

Maximum value of SAR (measured) = 0.0625 mW/g



0 dB = 0.0625 mW/g = -24.08 dB mW/g

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Date: 2012/11/25

### Body-worn\_Front side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.284$  mho/m;  $\epsilon_r = 48.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.100 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

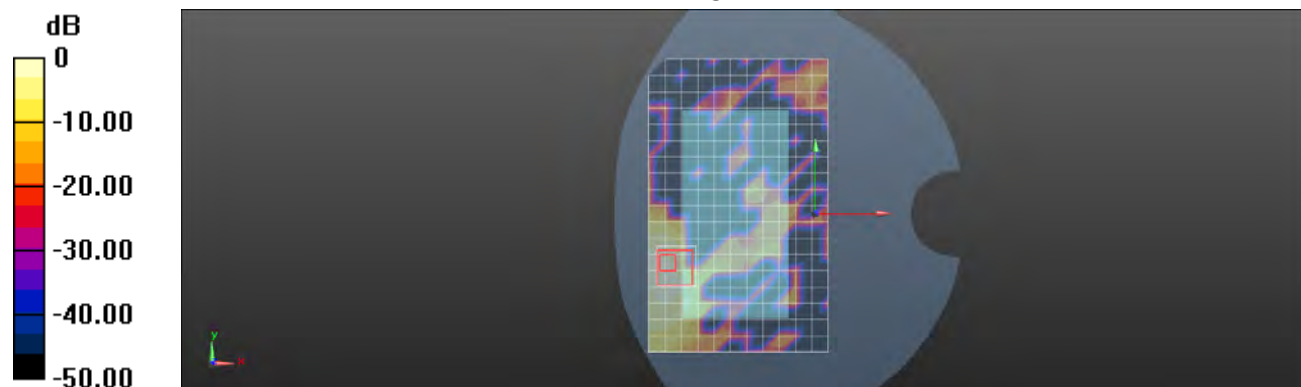
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.215 mW/g

**SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.115 mW/g



0 dB = 0.115 mW/g = -18.79 dB mW/g

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Date: 2012/11/25

### Body-worn\_Back side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.284 \text{ mho/m}$ ;  $\epsilon_r = 48.558$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.636 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

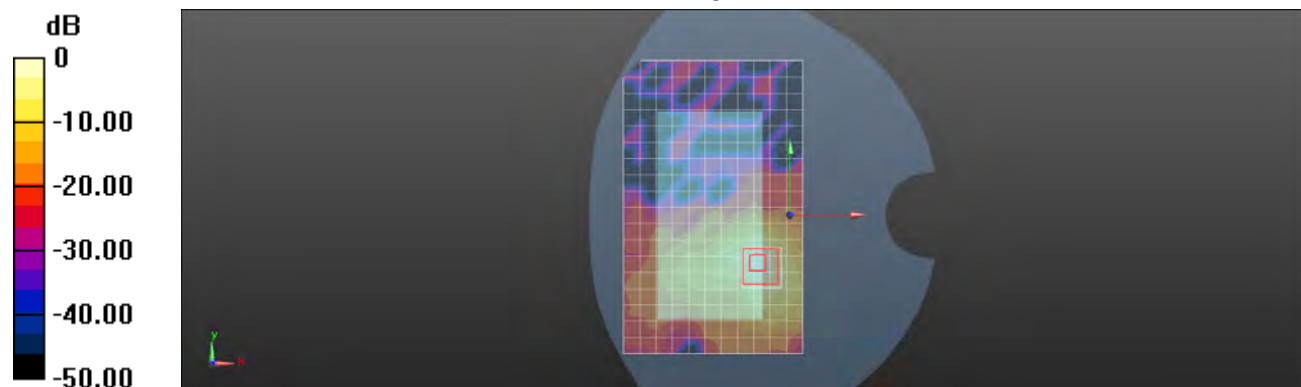
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.988 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.522 mW/g

**SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.123 mW/g**

Maximum value of SAR (measured) = 0.780 mW/g



0 dB = 0.780 mW/g = -2.16 dB mW/g

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Date: 2012/11/25

### Body-worn\_Top side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.284$  mho/m;  $\epsilon_r = 48.558$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0335 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

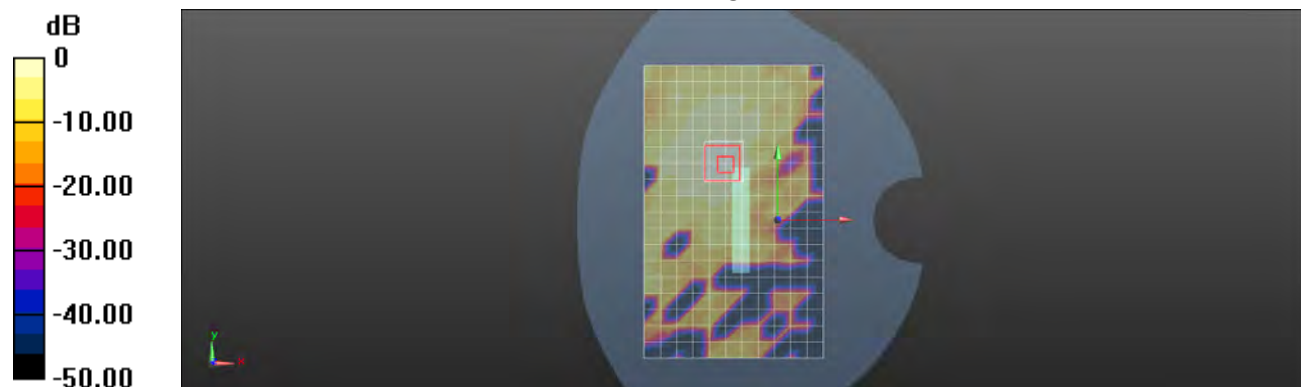
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.127 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.319 mW/g

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.00938 mW/g**

Maximum value of SAR (measured) = 0.0388 mW/g



0 dB = 0.0388 mW/g = -28.22 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.284 \text{ mho/m}$ ;  $\epsilon_r = 48.558$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.790 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

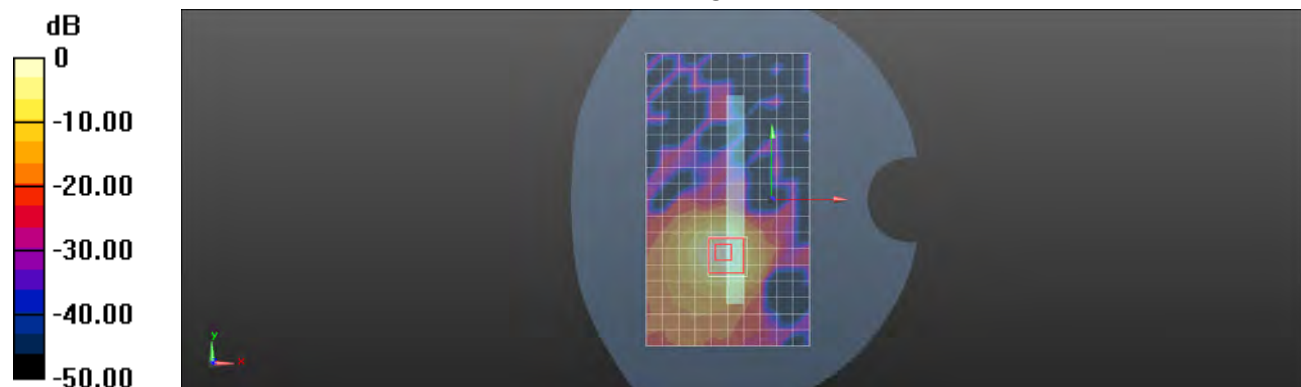
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.010 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.750 mW/g

**SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.136 mW/g**

Maximum value of SAR (measured) = 0.859 mW/g



0 dB = 0.859 mW/g = -1.32 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.368$  mho/m;  $\epsilon_r = 48.426$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.681 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

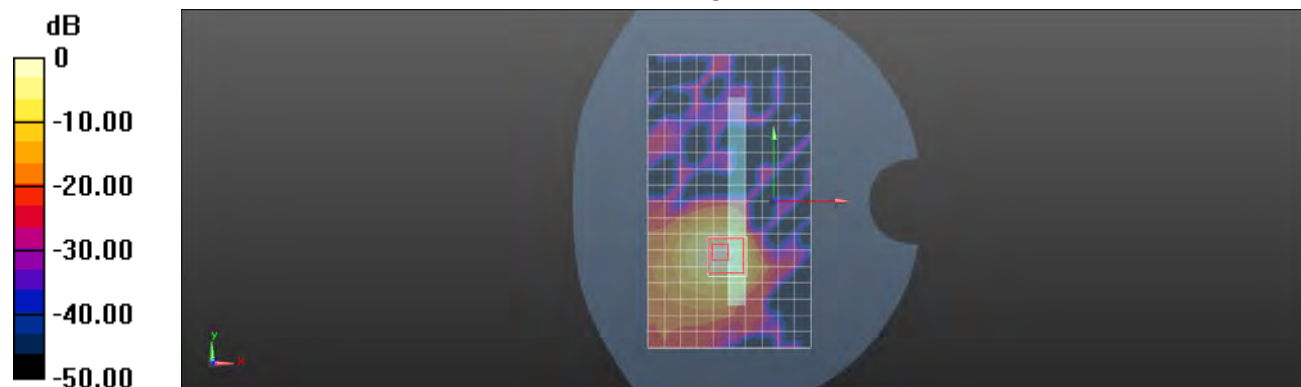
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.746 mW/g

**SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.129 mW/g**

Maximum value of SAR (measured) = 0.866 mW/g



0 dB = 0.866 mW/g = -1.25 dB mW/g

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Date: 2012/11/26

### RE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.544$  mho/m;  $\epsilon_r = 35.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0414 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

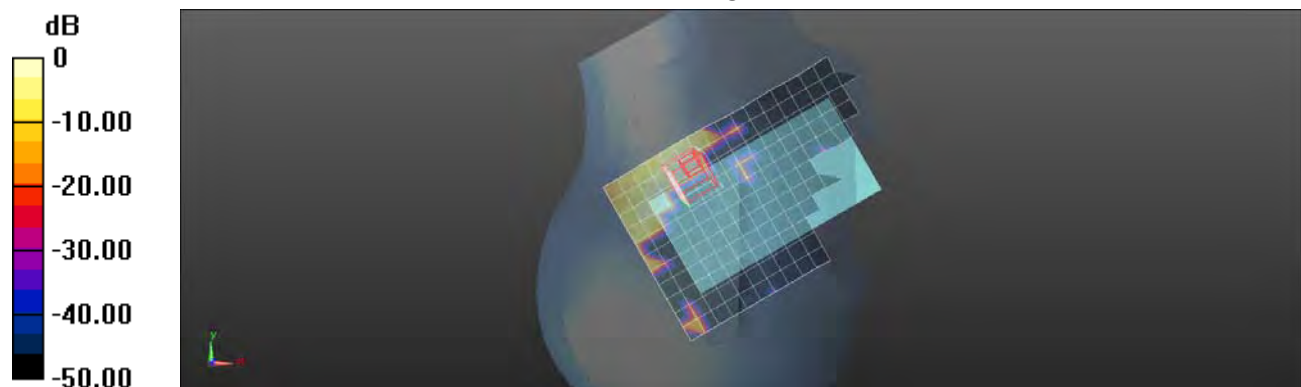
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.611 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.214 mW/g

**SAR(1 g) = 0.020 mW/g; SAR(10 g) = 0.00565 mW/g**

Maximum value of SAR (measured) = 0.0518 mW/g



0 dB = 0.0518 mW/g = -25.71 dB mW/g

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Date: 2012/11/26

### RE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.544$  mho/m;  $\epsilon_r = 35.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0271 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

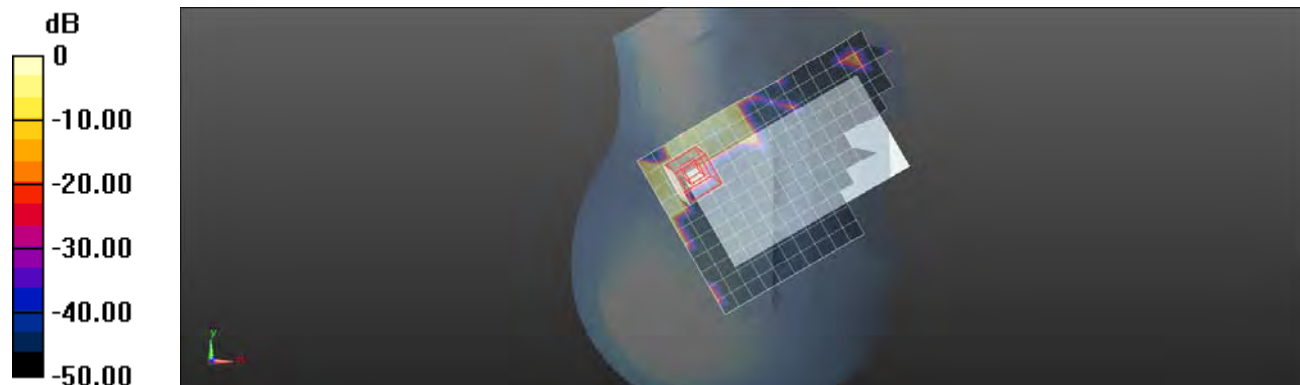
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.210 mW/g

**SAR(1 g) = 0.017 mW/g; SAR(10 g) = 0.00341 mW/g**

Maximum value of SAR (measured) = 0.0296 mW/g



0 dB = 0.0296 mW/g = -30.57 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.544$  mho/m;  $\epsilon_r = 35.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.124 mW/g

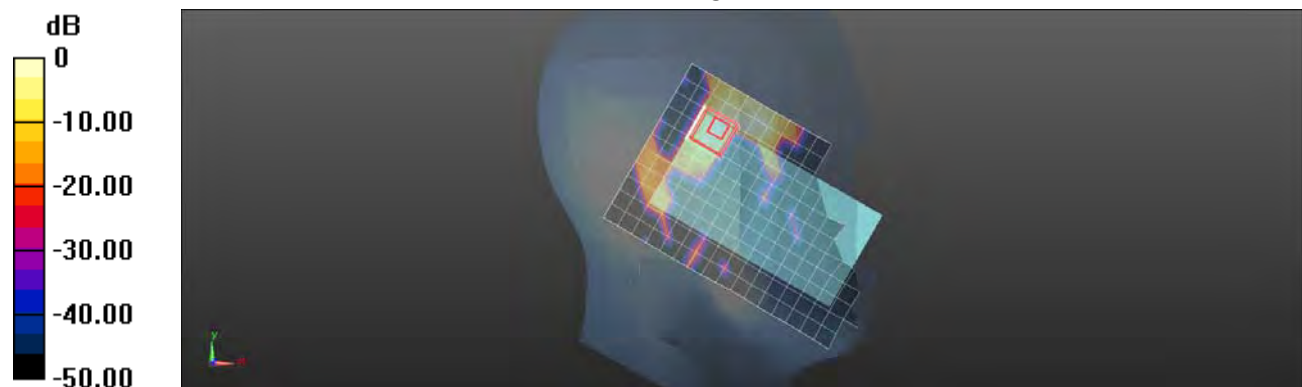
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.763 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.290 mW/g

**SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.174 mW/g



0 dB = 0.174 mW/g = -15.19 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 4.609 \text{ mho/m}$ ;  $\epsilon_r = 35.158$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.113 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

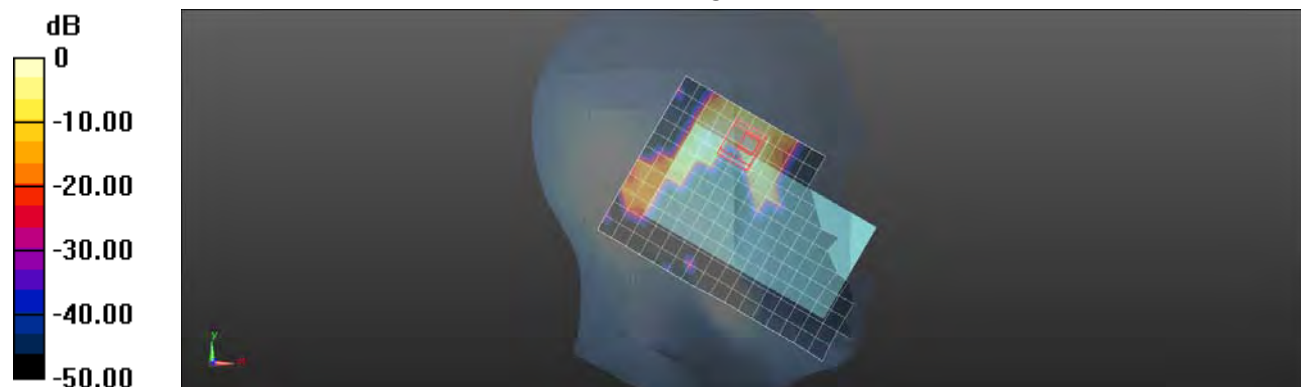
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.859 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.393 mW/g

**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.147 mW/g



0 dB = 0.147 mW/g = -16.65 dB mW/g

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Date: 2012/11/26

### LE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.544$  mho/m;  $\epsilon_r = 35.281$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0458 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

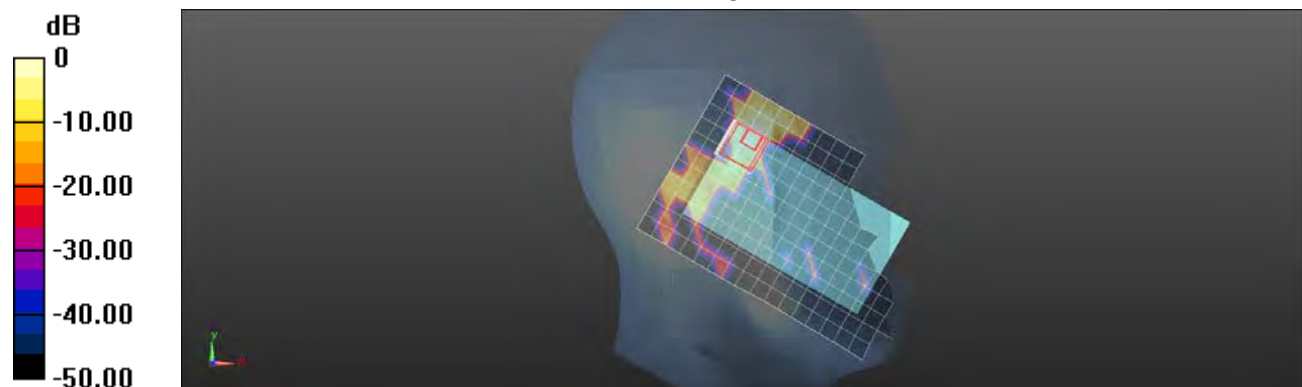
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.477 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.377 mW/g

**SAR(1 g) = 0.029 mW/g; SAR(10 g) = 0.00493 mW/g**

Maximum value of SAR (measured) = 0.0643 mW/g



0 dB = 0.0643 mW/g = -23.84 dB mW/g

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Date: 2012/11/30

### Body-worn\_Front side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.397$  mho/m;  $\epsilon_r = 48.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0830 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

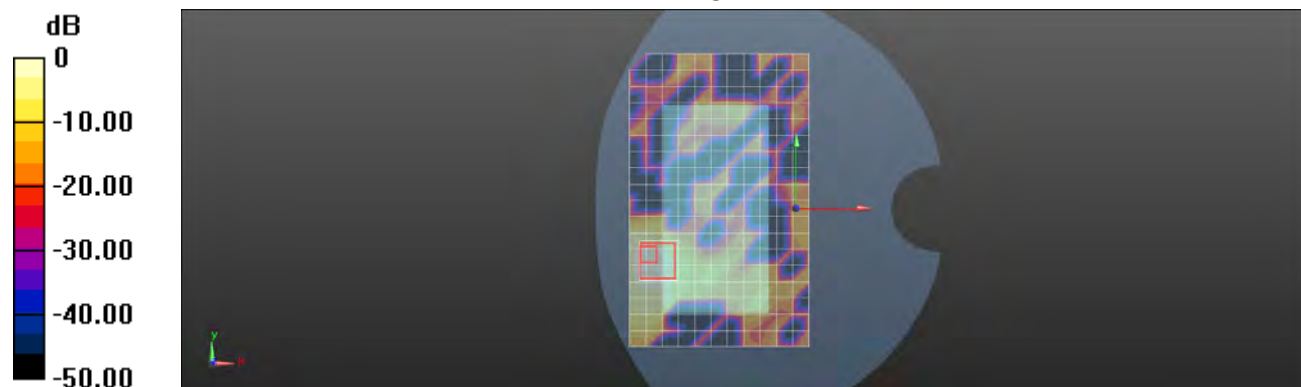
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.394 mW/g

**SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.103 mW/g



0 dB = 0.103 mW/g = -19.74 dB mW/g

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Date: 2012/11/30

### Body-worn\_Back side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 5.397 \text{ mho/m}$ ;  $\epsilon_r = 48.382$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.642 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

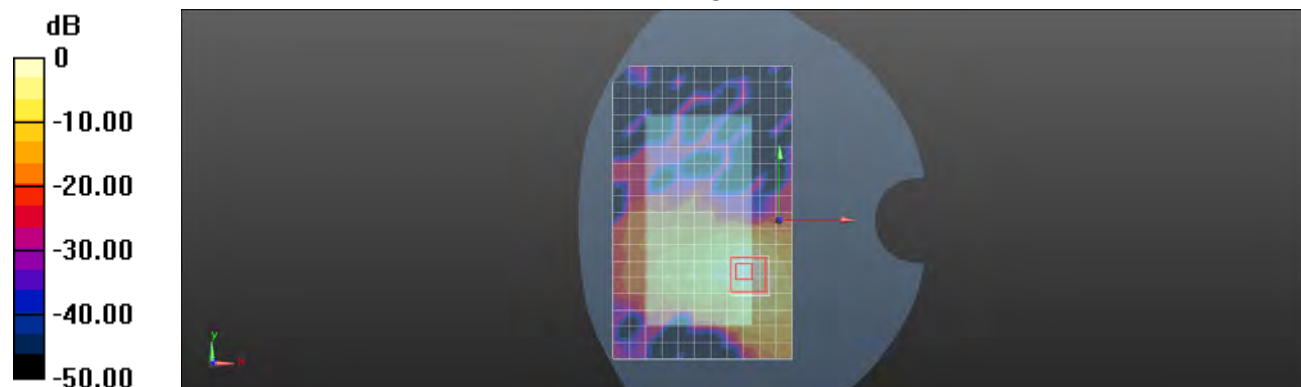
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.808 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.483 mW/g

**SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.116 mW/g**

Maximum value of SAR (measured) = 0.770 mW/g



0 dB = 0.770 mW/g = -2.27 dB mW/g

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Date: 2012/11/30

### Body-worn\_Top side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 5.397 \text{ mho/m}$ ;  $\epsilon_r = 48.382$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0382 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

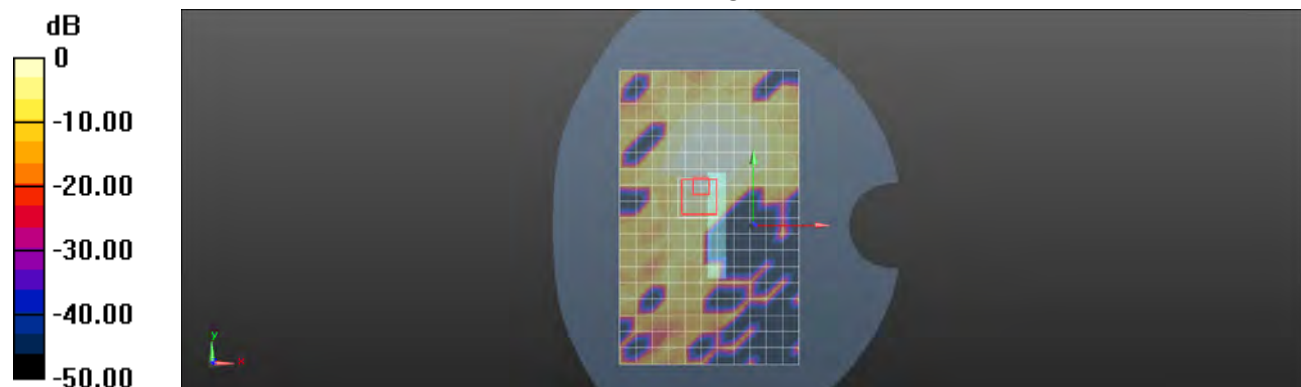
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.414 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.158 mW/g

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.00478 mW/g**

Maximum value of SAR (measured) = 0.0407 mW/g



0 dB = 0.0407 mW/g = -27.81 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.397$  mho/m;  $\epsilon_r = 48.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.735 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

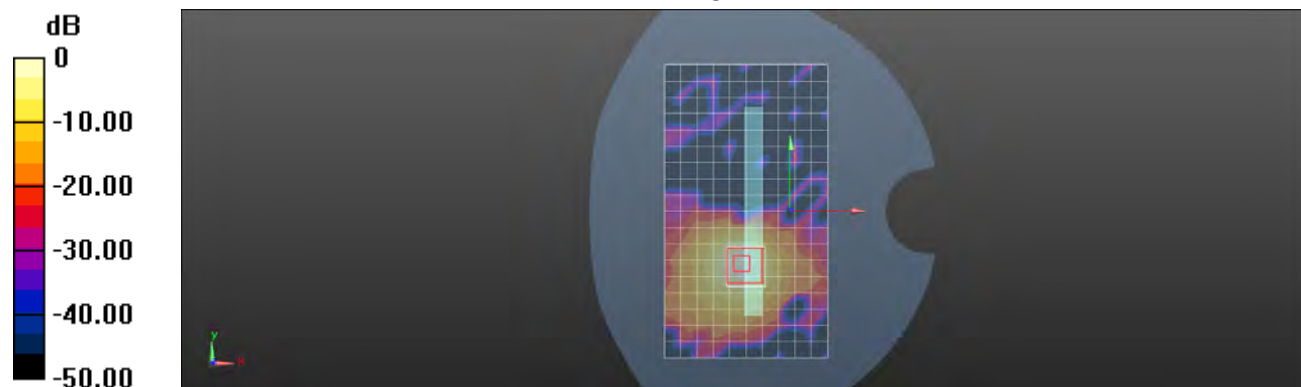
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.537 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.583 mW/g

**SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.124 mW/g**

Maximum value of SAR (measured) = 0.758 mW/g



0 dB = 0.758 mW/g = -2.41 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 5.483 \text{ mho/m}$ ;  $\epsilon_r = 48.26$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Configuration/Body-worn/Area Scan (11x19x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.395 mW/g

### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

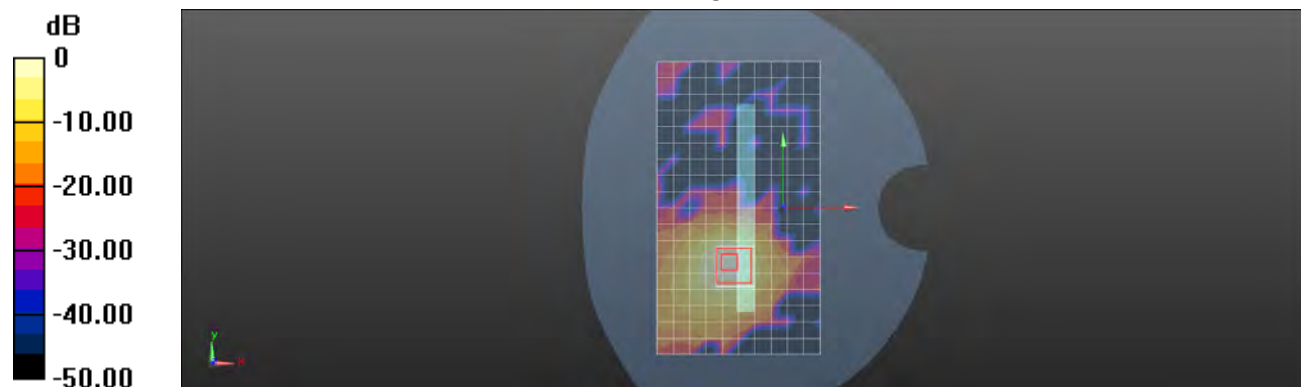
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.997 mW/g

**SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.078 mW/g**

Maximum value of SAR (measured) = 0.506 mW/g



0 dB = 0.506 mW/g = -5.92 dB mW/g

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Date: 2012/12/3

### RE Cheek\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 4.902 \text{ mho/m}$ ;  $\epsilon_r = 34.603$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0522 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

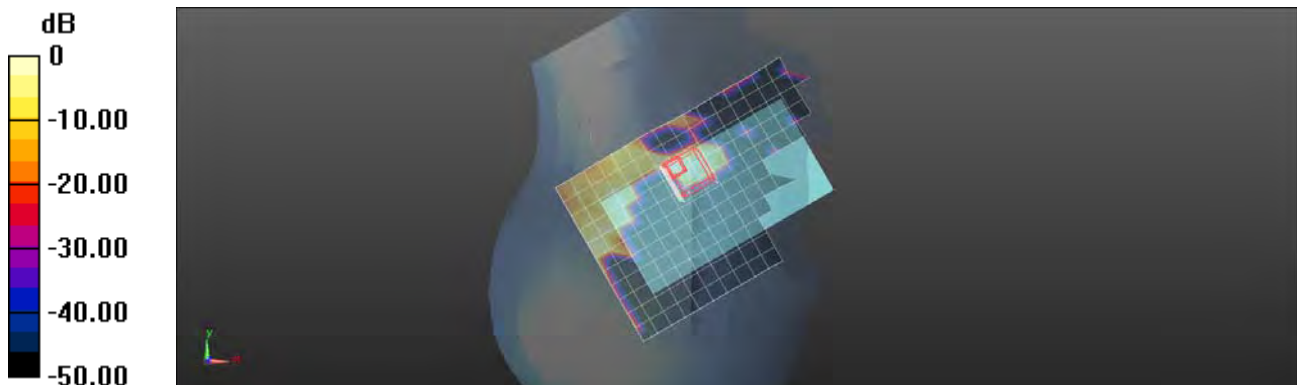
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.331 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.462 mW/g

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.00807 mW/g**

Maximum value of SAR (measured) = 0.0567 mW/g



0 dB = 0.0567 mW/g = -24.93 dB mW/g

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Date: 2012/12/3

### RE Tilt\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0540 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

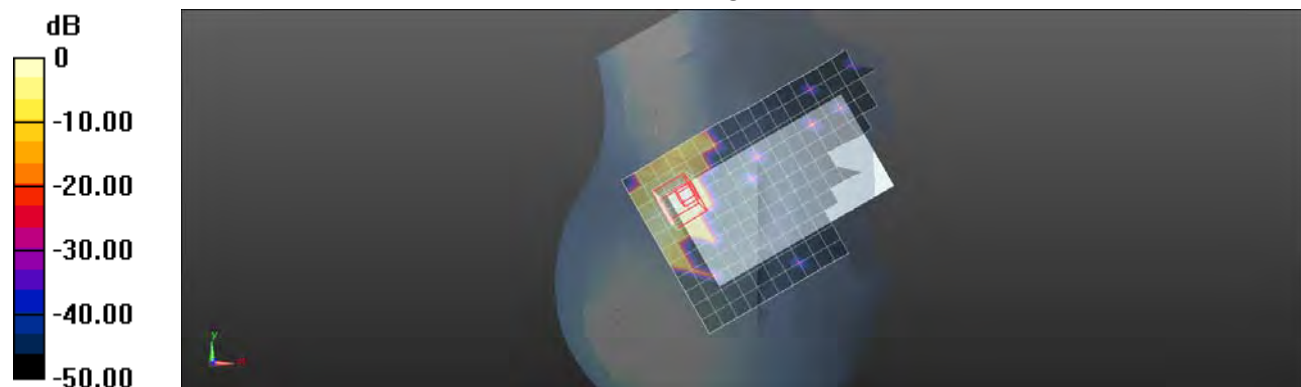
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.242 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.231 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00428 mW/g**

Maximum value of SAR (measured) = 0.0373 mW/g



0 dB = 0.0373 mW/g = -28.57 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.818$  mho/m;  $\epsilon_r = 34.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.183 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

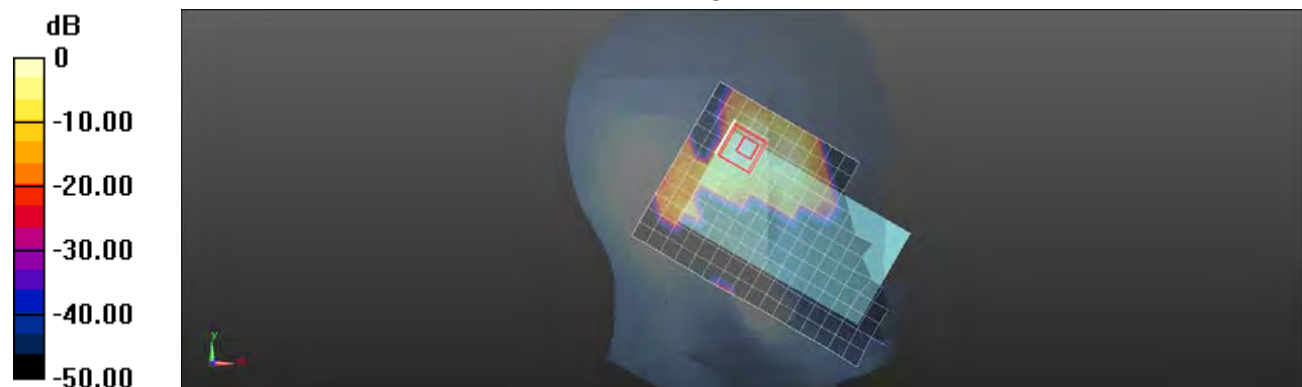
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.007 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.410 mW/g

**SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.032 mW/g**

Maximum value of SAR (measured) = 0.217 mW/g



0 dB = 0.217 mW/g = -13.27 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.206 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

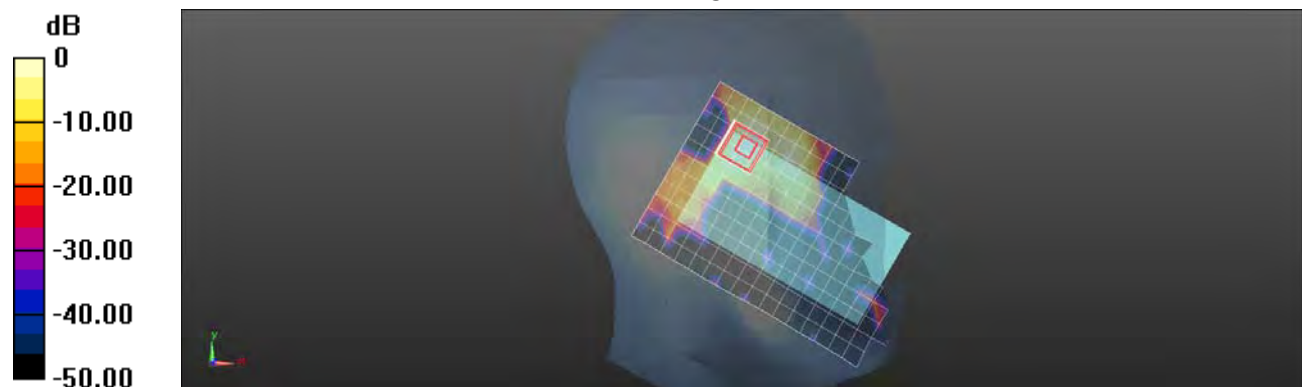
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.952 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.447 mW/g

**SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.034 mW/g**

Maximum value of SAR (measured) = 0.233 mW/g



0 dB = 0.233 mW/g = -12.65 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 5.033 \text{ mho/m}$ ;  $\epsilon_r = 34.363$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.131 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

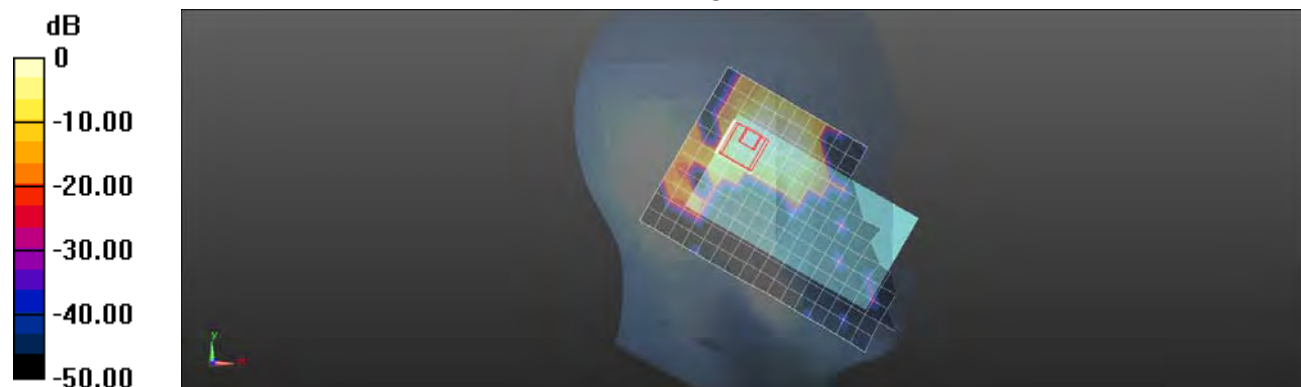
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.183 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.292 mW/g

**SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.153 mW/g



0 dB = 0.153 mW/g = -16.31 dB mW/g

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Date: 2012/12/3

### LE Tilt\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 4.902$  mho/m;  $\epsilon_r = 34.603$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.154 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

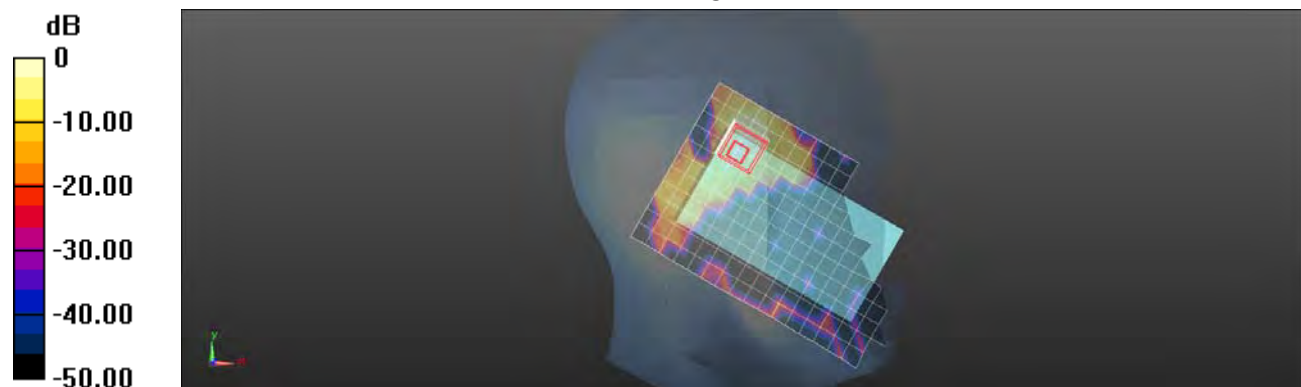
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.367 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.316 mW/g

**SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.162 mW/g



0 dB = 0.162 mW/g = -15.81 dB mW/g

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Date: 2012/12/10

### Body-worn\_Front side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0734 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

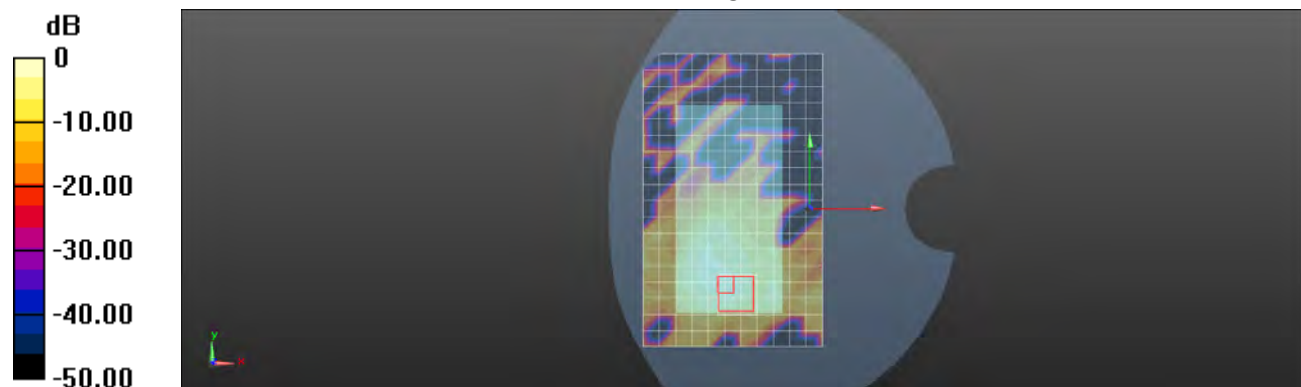
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.671 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.221 mW/g

**SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.00976 mW/g**

Maximum value of SAR (measured) = 0.0905 mW/g



0 dB = 0.0905 mW/g = -20.87 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.741$  mho/m;  $\epsilon_r = 47.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.529 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

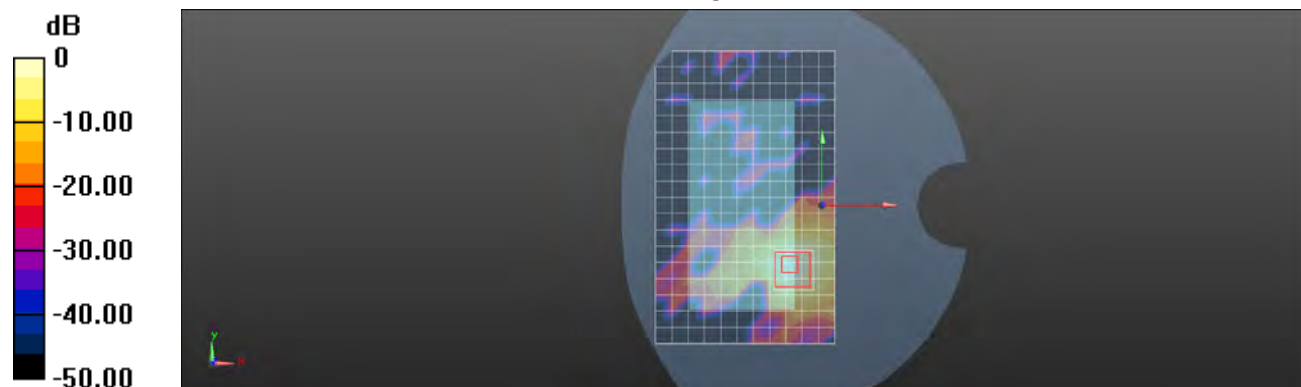
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.965 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.995 mW/g

**SAR(1 g) = 0.275 mW/g; SAR(10 g) = 0.087 mW/g**

Maximum value of SAR (measured) = 0.545 mW/g



0 dB = 0.545 mW/g = -5.27 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.18 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

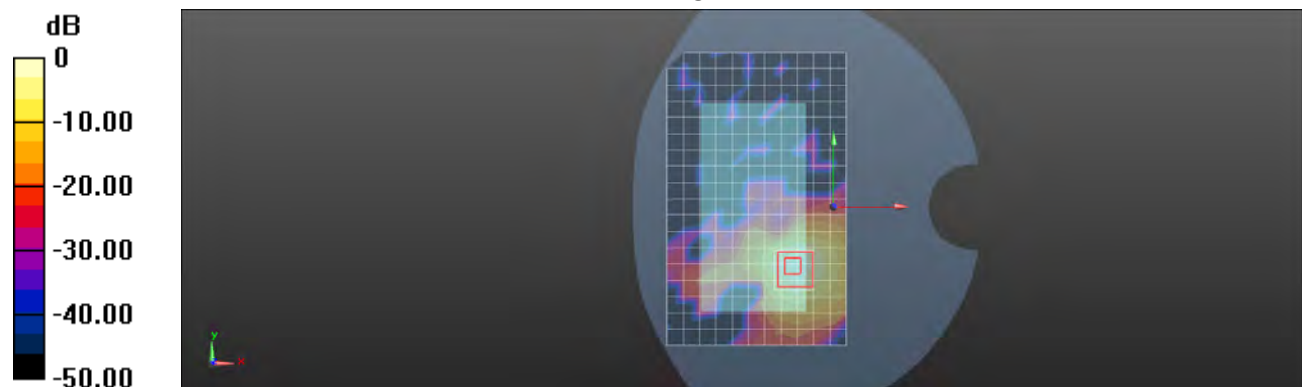
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.301 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.675 mW/g

**SAR(1 g) = 0.668 mW/g; SAR(10 g) = 0.213 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g



0 dB = 1.27 mW/g = 2.08 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 6.032 \text{ mho/m}$ ;  $\epsilon_r = 47.506$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.493 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

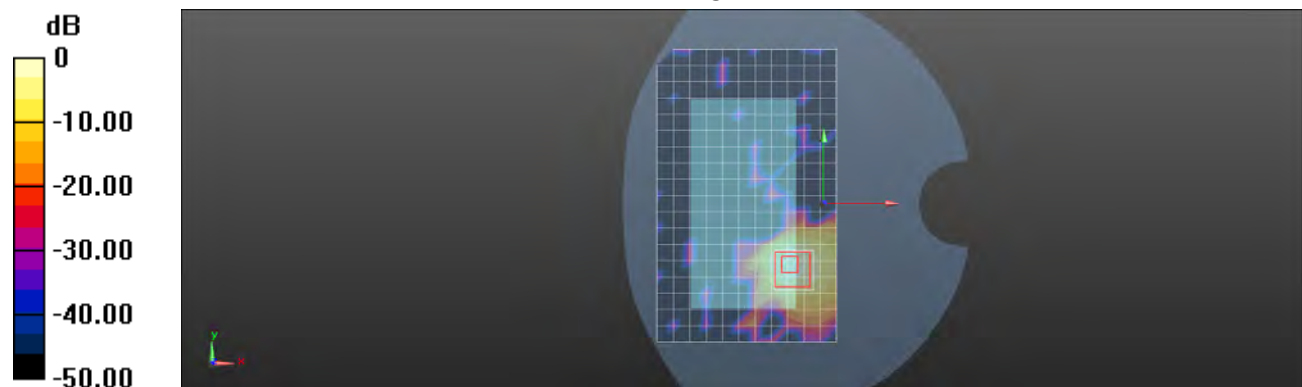
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.383 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.051 mW/g

**SAR(1 g) = 0.261 mW/g; SAR(10 g) = 0.077 mW/g**

Maximum value of SAR (measured) = 0.530 mW/g



0 dB = 0.530 mW/g = -5.51 dB mW/g

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Date: 2012/12/10

### Body-worn\_Top side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.858 \text{ mho/m}$ ;  $\epsilon_r = 47.725$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0475 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

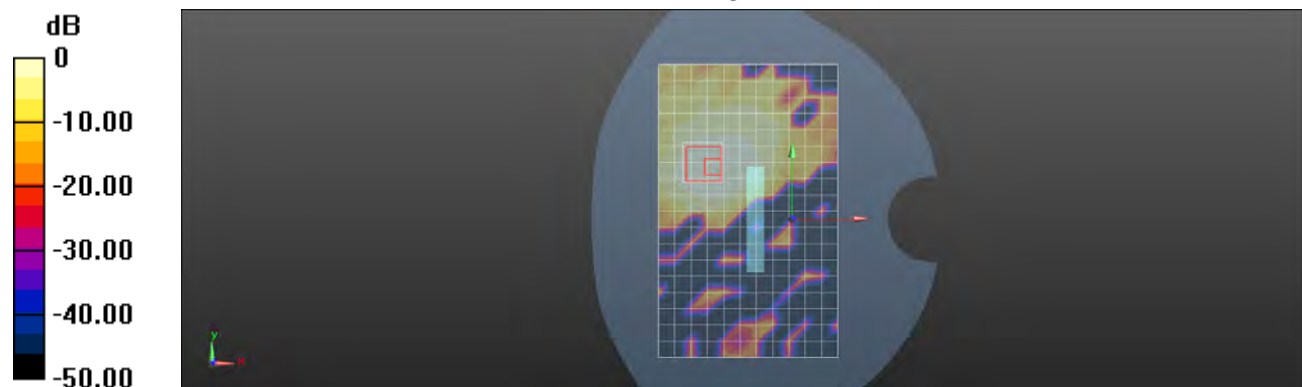
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.414 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.285 mW/g

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.00738 mW/g**

Maximum value of SAR (measured) = 0.0563 mW/g



0 dB = 0.0563 mW/g = -24.99 dB mW/g

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Date: 2012/12/10

### Body-worn\_Right side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.858$  mho/m;  $\epsilon_r = 47.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.635 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

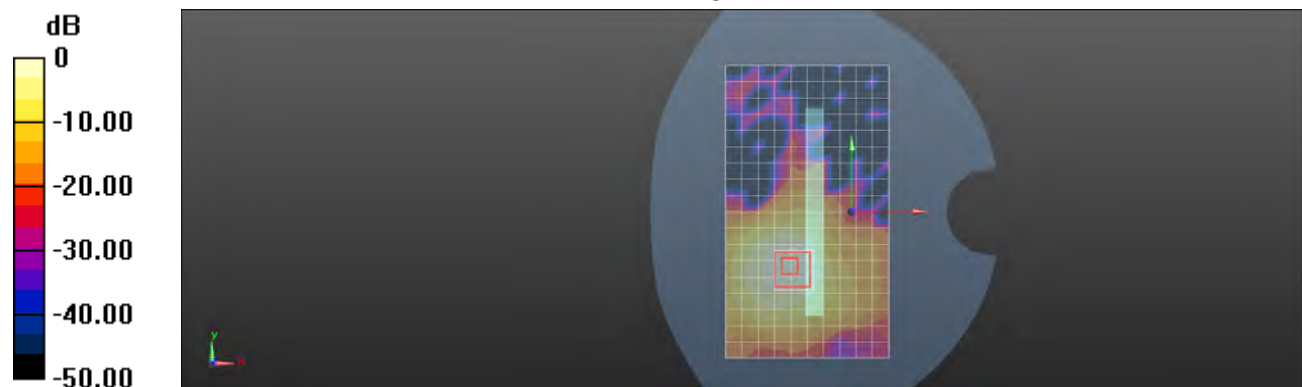
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 2.601 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.355 mW/g

**SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.130 mW/g**

Maximum value of SAR (measured) = 0.648 mW/g


 $0$  dB = 0.648 mW/g = -3.77 dB mW/g

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Date: 2012/12/11

### RE Cheek\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.083 \text{ mho/m}$ ;  $\epsilon_r = 34.274$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0429 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

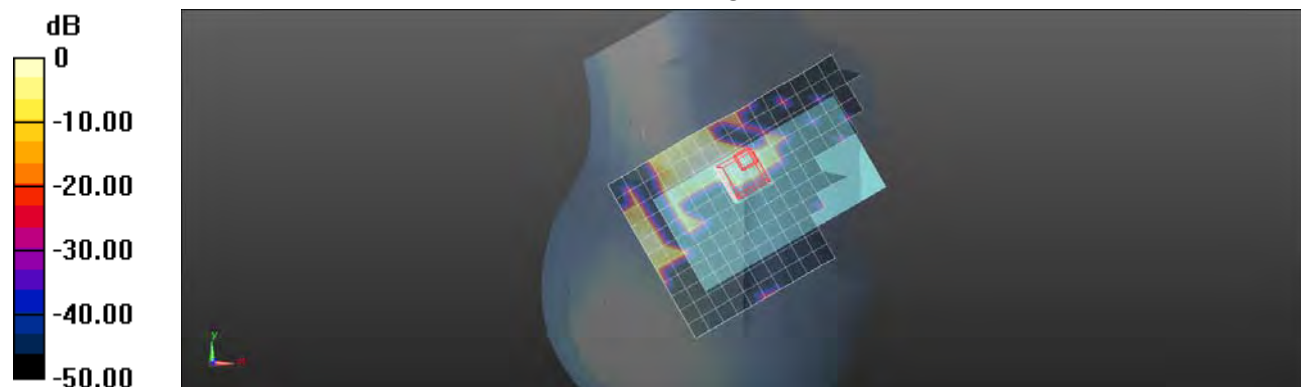
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.316 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.329 mW/g

**SAR(1 g) = 0.026 mW/g; SAR(10 g) = 0.00601 mW/g**

Maximum value of SAR (measured) = 0.0538 mW/g



0 dB = 0.0538 mW/g = -25.38 dB mW/g

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Date: 2012/12/11

### RE Tilt\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.083$  mho/m;  $\epsilon_r = 34.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0367 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

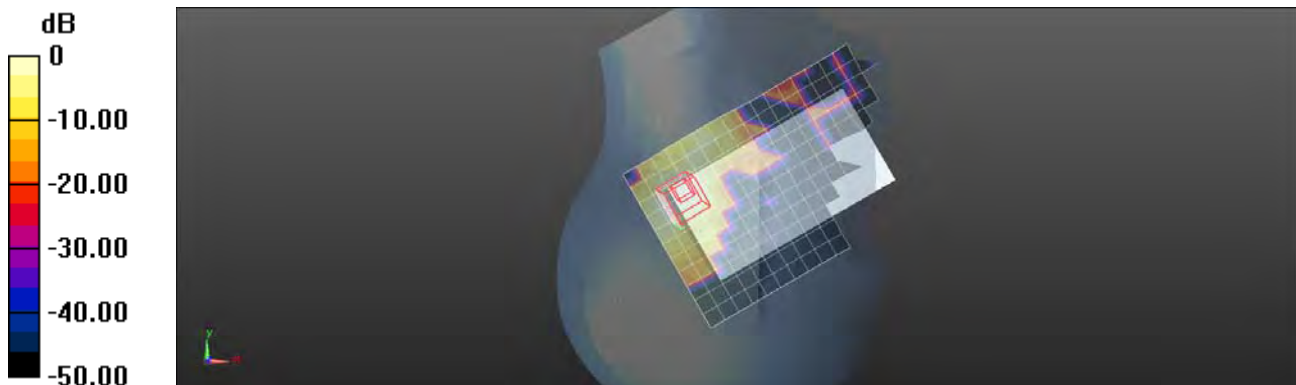
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.101 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.213 mW/g

**SAR(1 g) = 0.015 mW/g; SAR(10 g) = 0.0021 mW/g**

Maximum value of SAR (measured) = 0.0259 mW/g



0 dB = 0.0259 mW/g = -31.73 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.083 \text{ mho/m}$ ;  $\epsilon_r = 34.274$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.276 mW/g

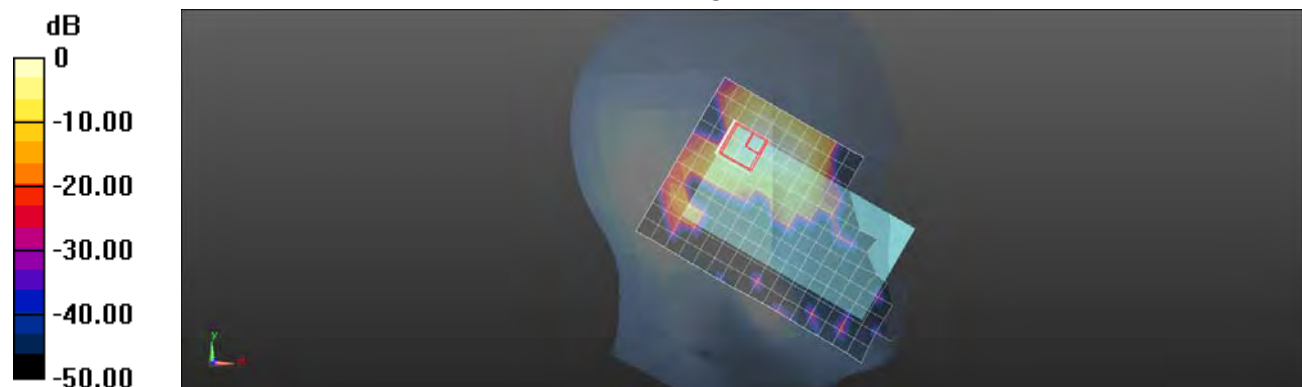
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.900 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.602 mW/g

**SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.309 mW/g



0 dB = 0.309 mW/g = -10.20 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11n(20M)5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 5.132$  mho/m;  $\epsilon_r = 34.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.217 mW/g

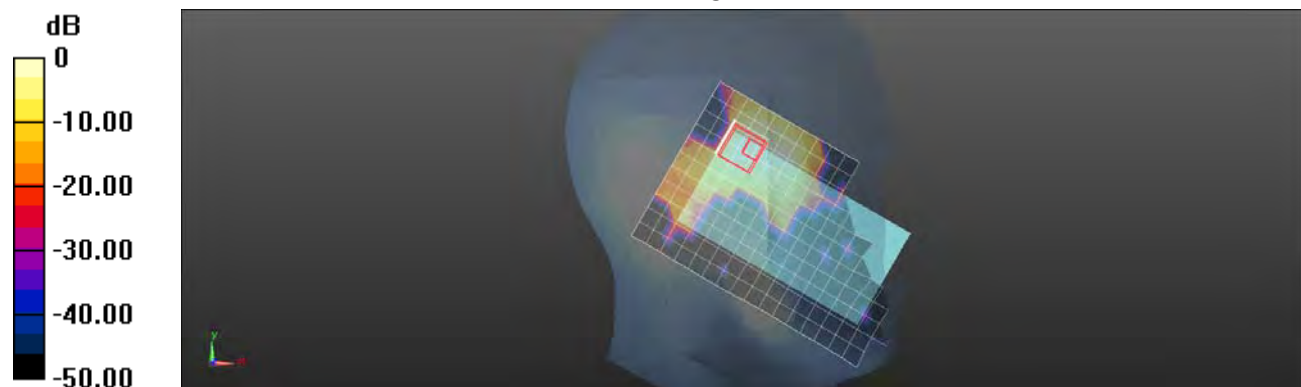
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.780 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.588 mW/g

**SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.038 mW/g**

Maximum value of SAR (measured) = 0.263 mW/g



0 dB = 0.263 mW/g = -11.60 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11n(20M)5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.176$  mho/m;  $\epsilon_r = 34.103$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.191 mW/g

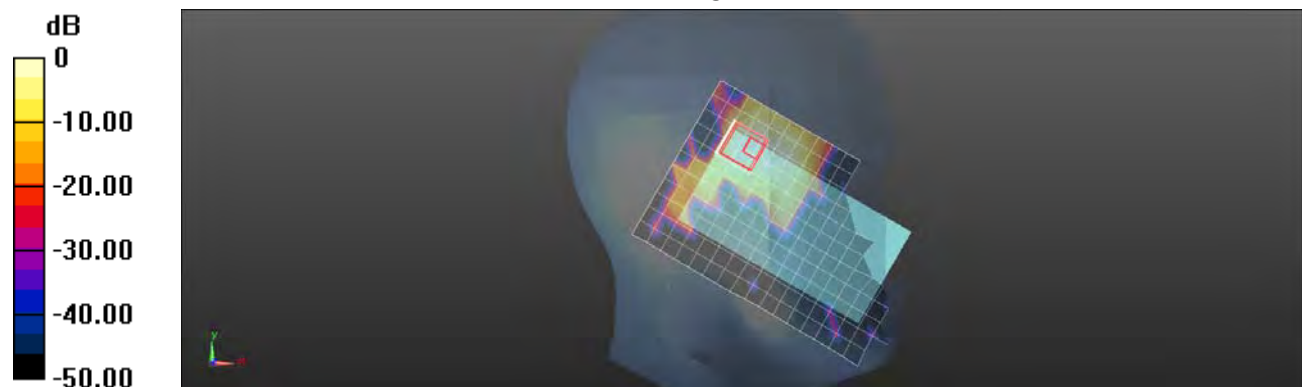
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.414 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.500 mW/g

**SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.035 mW/g**

Maximum value of SAR (measured) = 0.239 mW/g



0 dB = 0.239 mW/g = -12.43 dB mW/g

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Date: 2012/12/11

### LE Tilt\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.083$  mho/m;  $\epsilon_r = 34.274$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.128 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

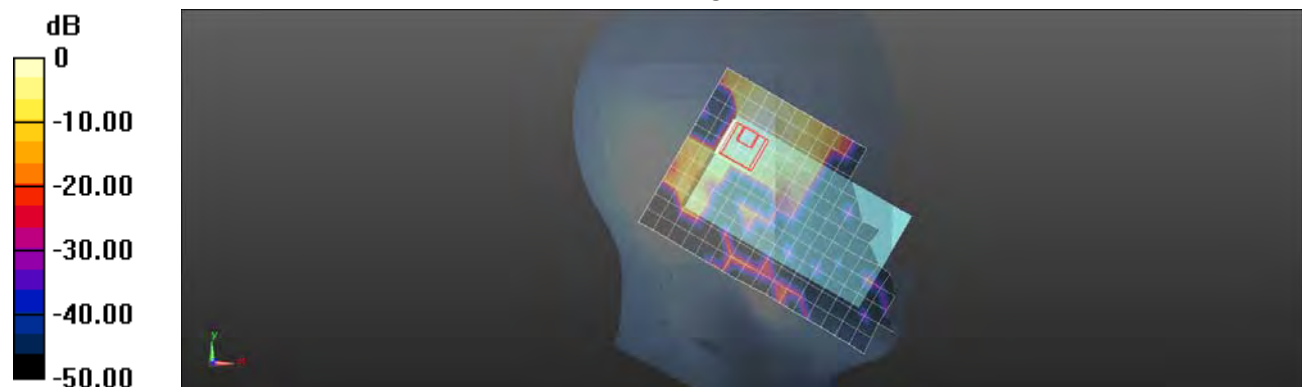
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.125 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.327 mW/g

**SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.016 mW/g**

Maximum value of SAR (measured) = 0.130 mW/g



0 dB = 0.130 mW/g = -17.72 dB mW/g

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Date: 2012/12/12

### Body-worn\_Front side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.092$  mho/m;  $\epsilon_r = 47.437$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0252 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

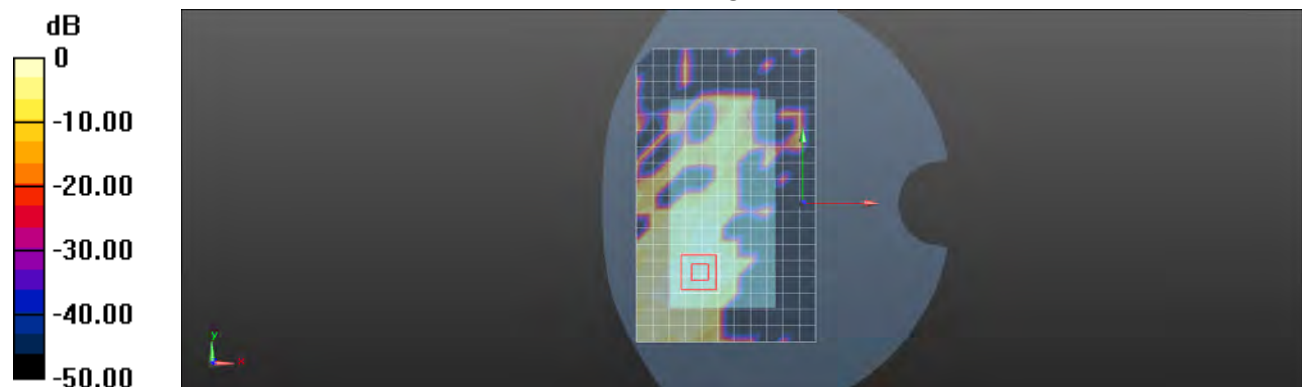
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.252 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00636 mW/g**

Maximum value of SAR (measured) = 0.0308 mW/g



0 dB = 0.0308 mW/g = -30.23 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.092 \text{ mho/m}$ ;  $\epsilon_r = 47.437$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.630 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

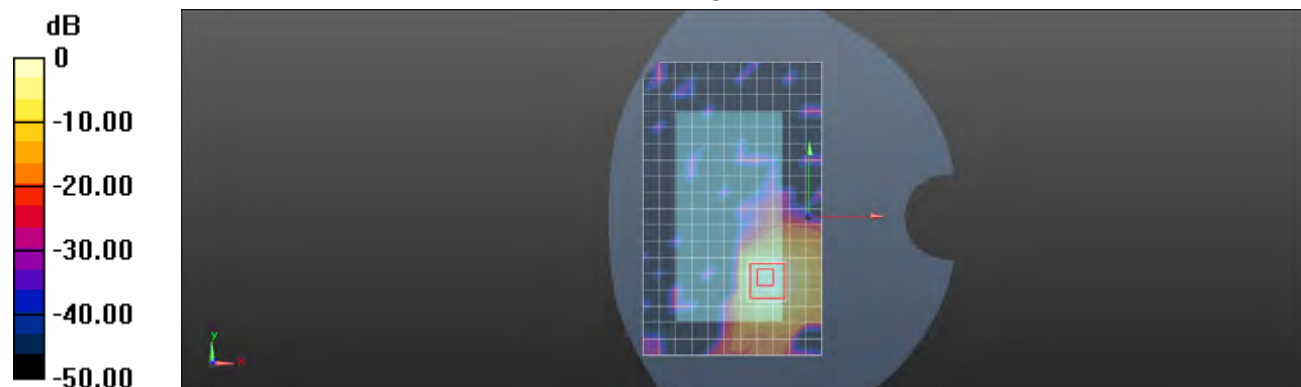
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.901 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.426 mW/g

**SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.111 mW/g**

Maximum value of SAR (measured) = 0.733 mW/g



0 dB = 0.733 mW/g = -2.70 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11n(20M) 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 6.156 \text{ mho/m}$ ;  $\epsilon_r = 47.334$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.554 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

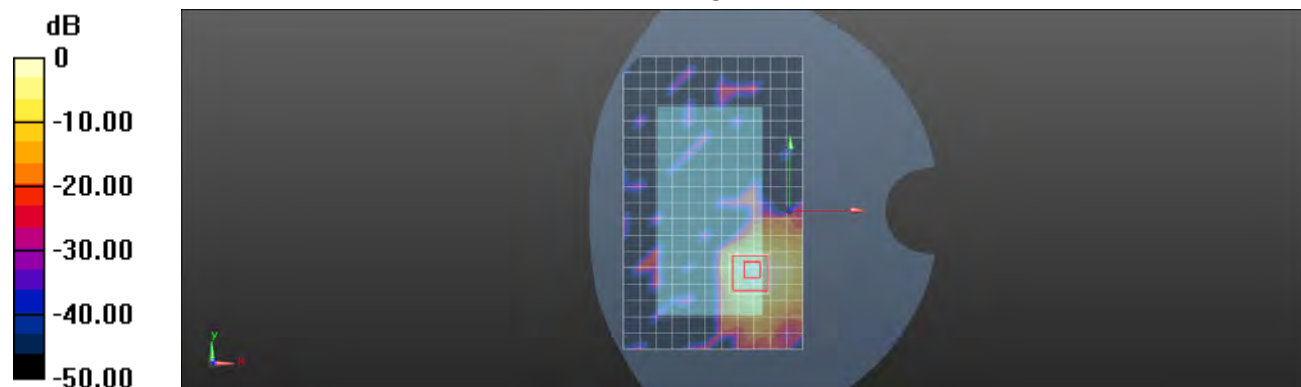
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.942 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.084 mW/g

**SAR(1 g) = 0.276 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.582 mW/g



0 dB = 0.582 mW/g = -4.70 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11n(20M) 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.218$  mho/m;  $\epsilon_r = 47.277$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.418 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

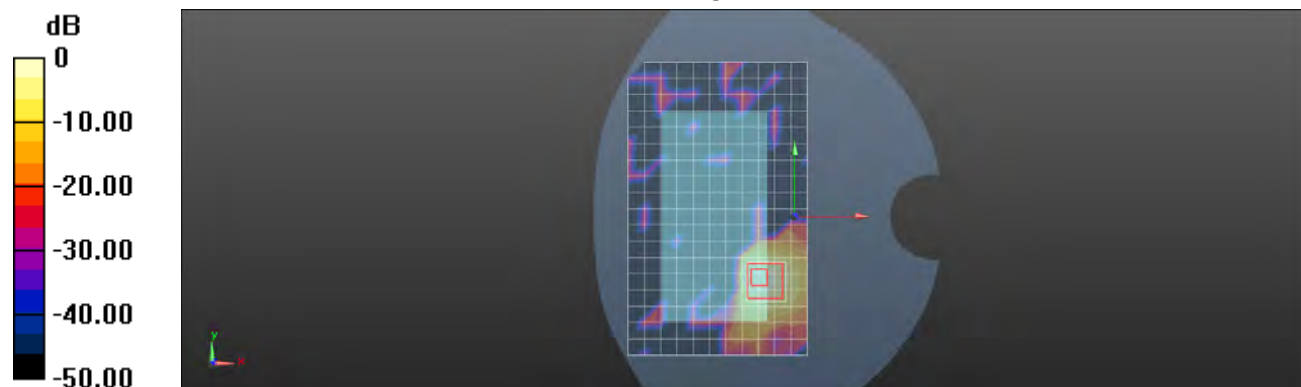
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.760 mW/g

**SAR(1 g) = 0.198 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.426 mW/g



0 dB = 0.426 mW/g = -7.41 dB mW/g

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Date: 2012/12/12

### Body-worn\_Top side\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.092$  mho/m;  $\epsilon_r = 47.437$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0326 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

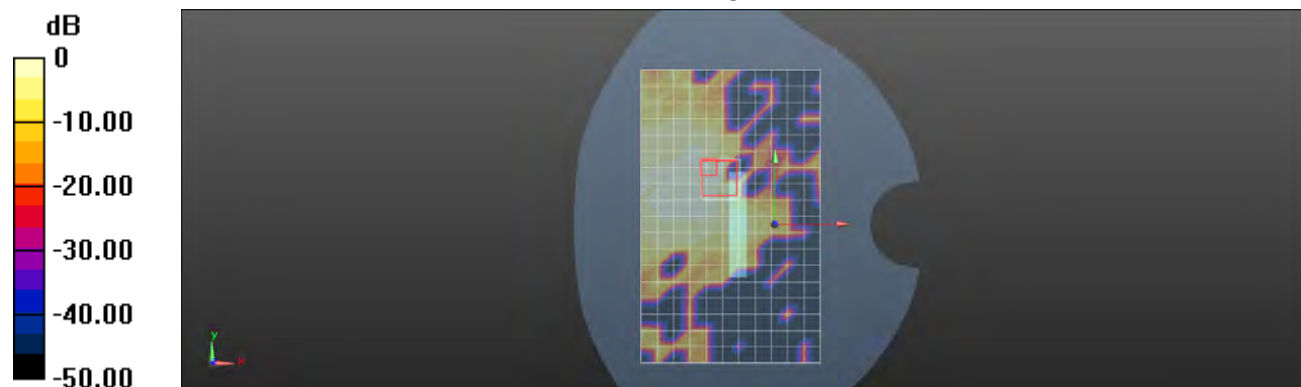
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.696 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.274 mW/g

**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.00605 mW/g**

Maximum value of SAR (measured) = 0.0401 mW/g



0 dB = 0.0401 mW/g = -27.94 dB mW/g

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Date: 2012/12/12

### Body-worn\_Right side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.092 \text{ mho/m}$ ;  $\epsilon_r = 47.437$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.364 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

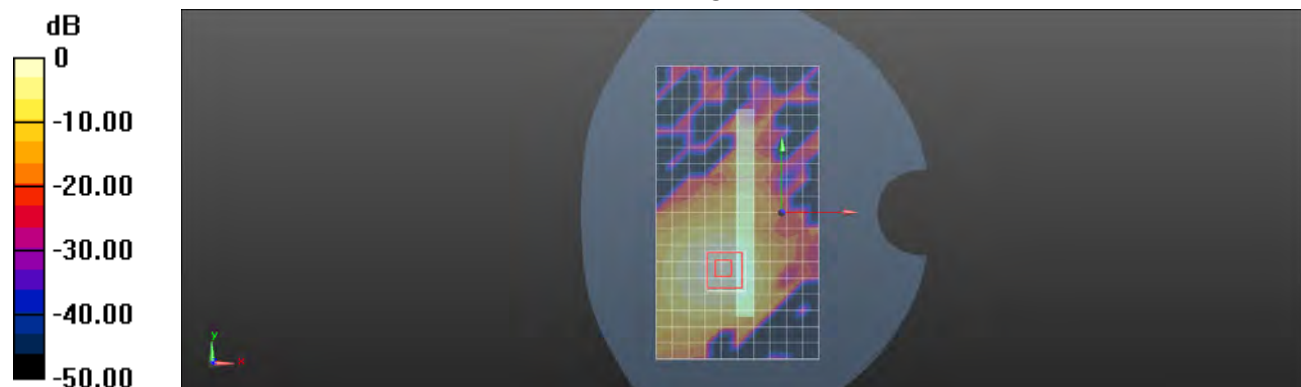
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.978 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.782 mW/g

**SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.379 mW/g



0 dB = 0.379 mW/g = -8.43 dB mW/g

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Date: 2012/11/21

### RE Cheek\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.51 \text{ mho/m}$ ;  $\epsilon_r = 35.349$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0592 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

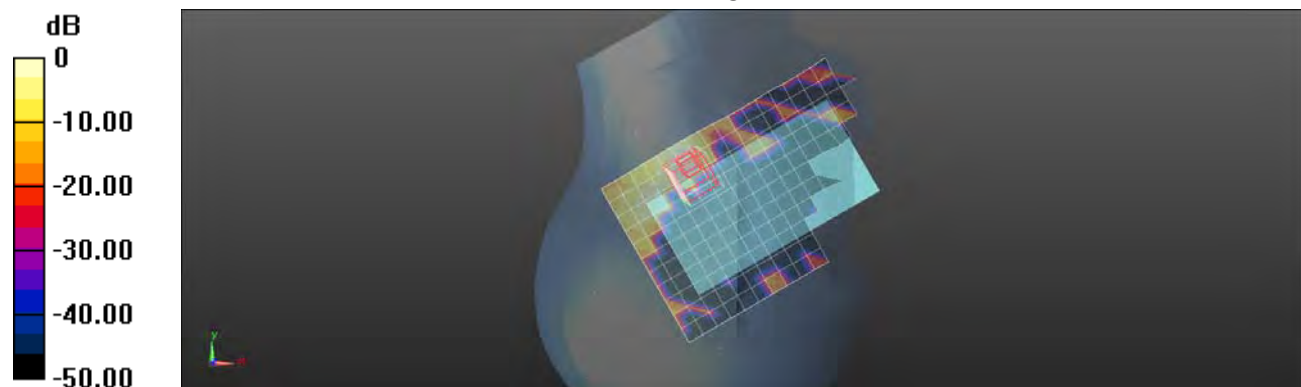
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.840 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.140 mW/g

**SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.00911 mW/g**

Maximum value of SAR (measured) = 0.0825 mW/g



0 dB = 0.0825 mW/g = -21.67 dB mW/g

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Date: 2012/11/21

### RE Tilt\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.51 \text{ mho/m}$ ;  $\epsilon_r = 35.349$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0513 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

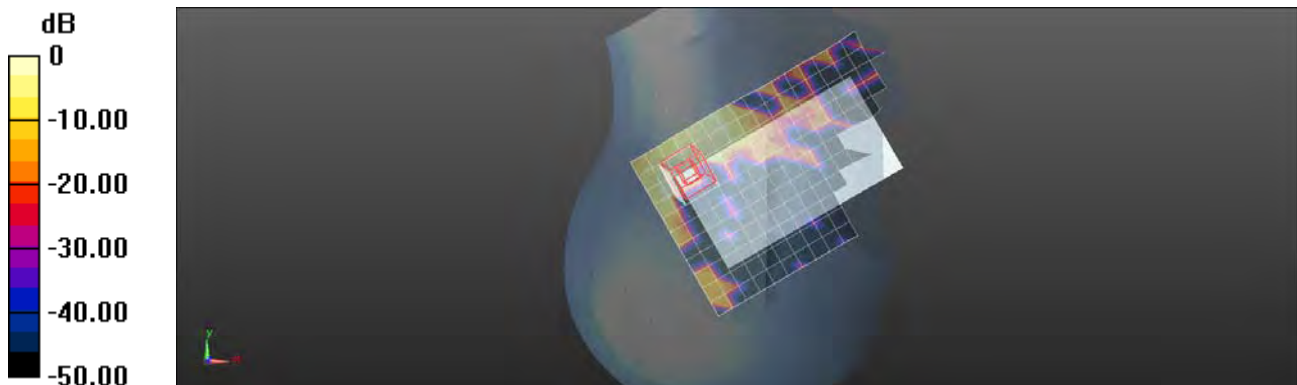
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.237 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.115 mW/g

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.00784 mW/g**

Maximum value of SAR (measured) = 0.0566 mW/g



0 dB = 0.0566 mW/g = -24.94 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.464$  mho/m;  $\epsilon_r = 35.443$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.151 mW/g

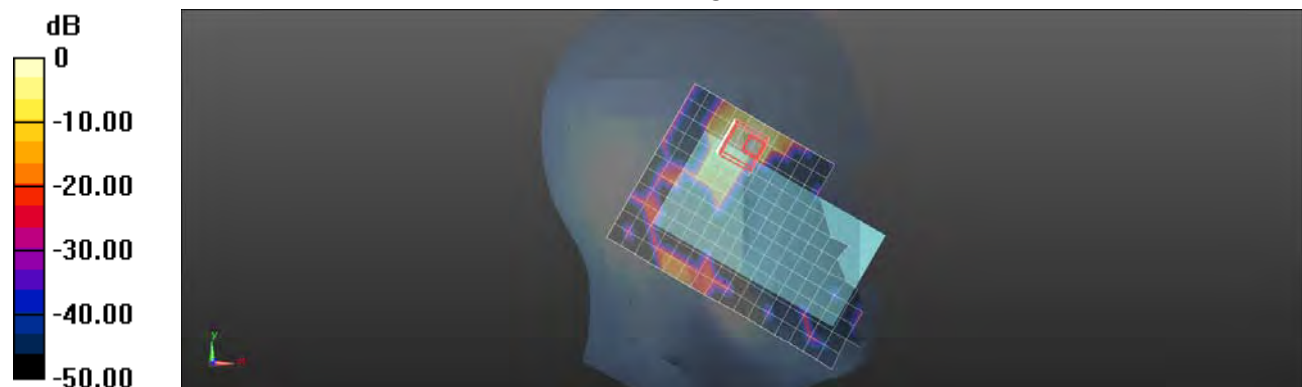
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.840 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.349 mW/g

**SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.020 mW/g**

Maximum value of SAR (measured) = 0.204 mW/g



0 dB = 0.204 mW/g = -13.81 dB mW/g

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Date: 2012/11/21

### LE Cheek\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.51 \text{ mho/m}$ ;  $\epsilon_r = 35.349$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.281 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

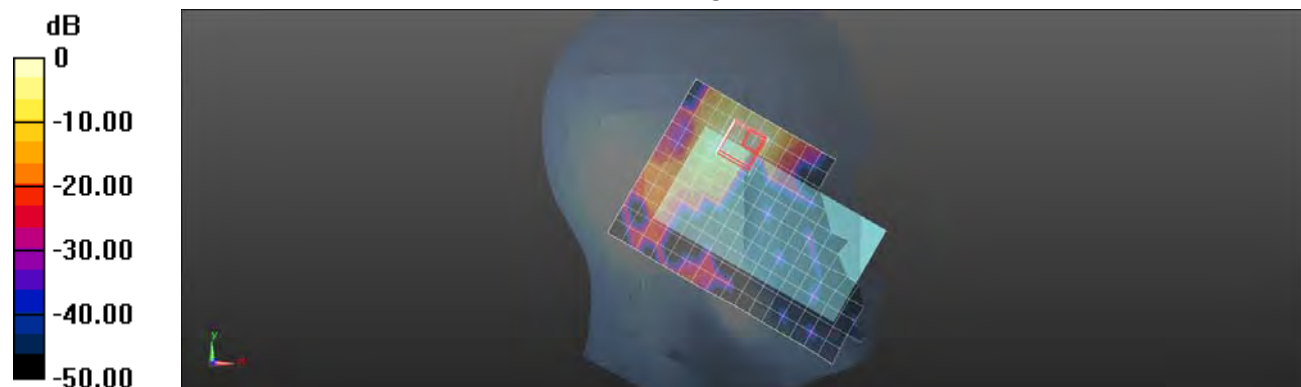
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.013 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.673 mW/g

**SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.378 mW/g



0 dB = 0.378 mW/g = -8.45 dB mW/g

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Date: 2012/11/21

### LE Tilt\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.51 \text{ mho/m}$ ;  $\epsilon_r = 35.349$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0721 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

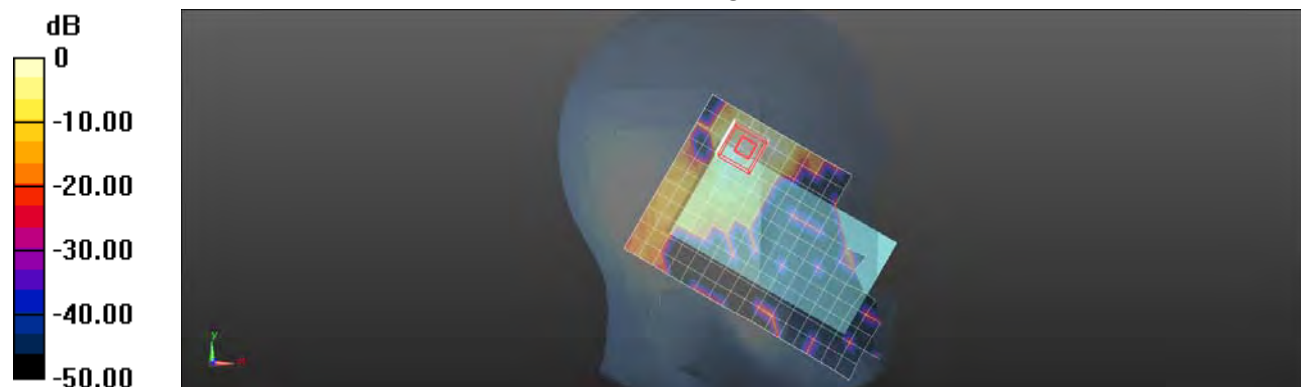
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.452 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.183 mW/g

**SAR(1 g) = 0.036 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.0910 mW/g



0 dB = 0.0910 mW/g = -20.82 dB mW/g

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Date: 2012/11/25

### Body-worn\_Front side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.355 \text{ mho/m}$ ;  $\epsilon_r = 48.447$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0439 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

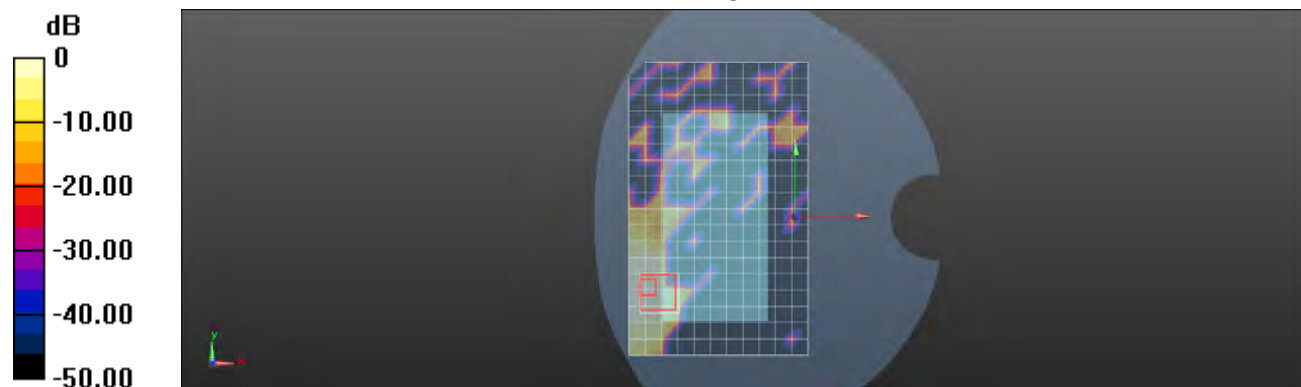
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.148 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00649 mW/g**

Maximum value of SAR (measured) = 0.0454 mW/g



0 dB = 0.0454 mW/g = -26.86 dB mW/g

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Date: 2012/11/25

### Body-worn\_Back side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.355 \text{ mho/m}$ ;  $\epsilon_r = 48.447$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.372 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

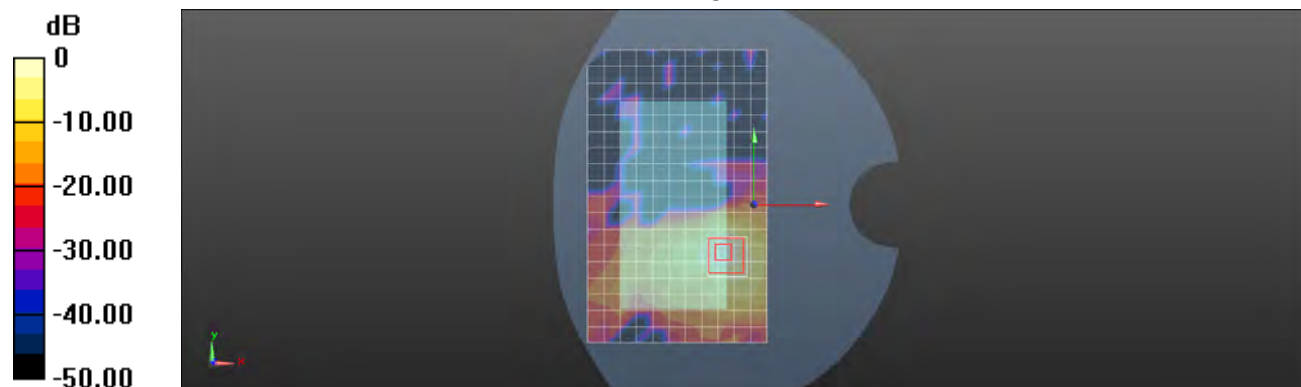
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.828 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.016 mW/g

**SAR(1 g) = 0.262 mW/g; SAR(10 g) = 0.079 mW/g**

Maximum value of SAR (measured) = 0.517 mW/g



0 dB = 0.517 mW/g = -5.73 dB mW/g

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Date: 2012/11/25

### Body-worn\_Top side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.355 \text{ mho/m}$ ;  $\epsilon_r = 48.447$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0276 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

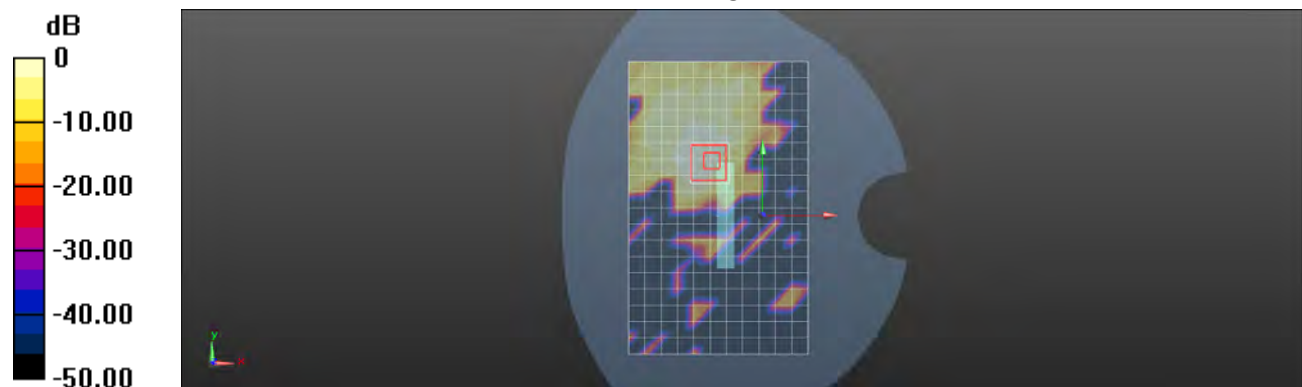
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.299 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.231 mW/g

**SAR(1 g) = 0.019 mW/g; SAR(10 g) = 0.00658 mW/g**

Maximum value of SAR (measured) = 0.0316 mW/g



0 dB = 0.0316 mW/g = -30.01 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 5.297$  mho/m;  $\epsilon_r = 48.539$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.311 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

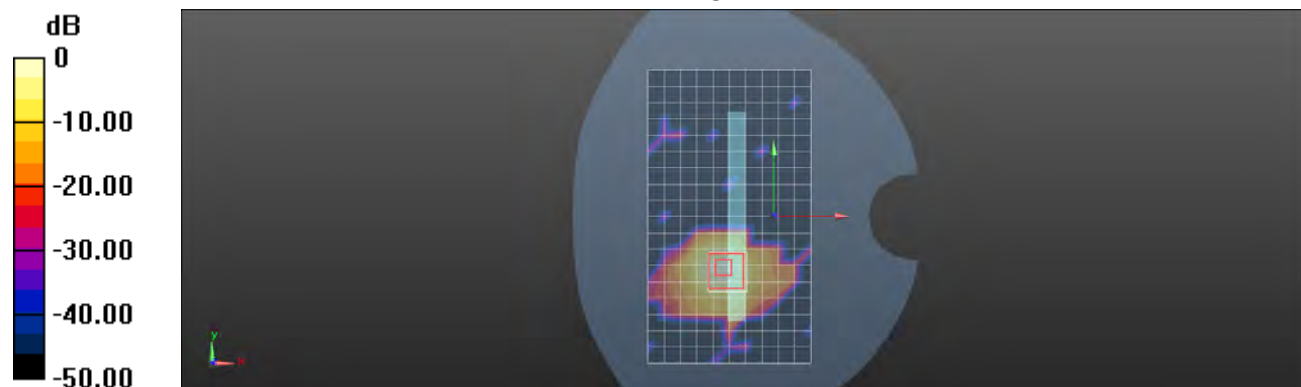
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.434 mW/g

**SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.048 mW/g**

Maximum value of SAR (measured) = 0.356 mW/g



0 dB = 0.356 mW/g = -8.97 dB mW/g

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Date: 2012/11/25

### Body-worn\_Right side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.355 \text{ mho/m}$ ;  $\epsilon_r = 48.447$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.479 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

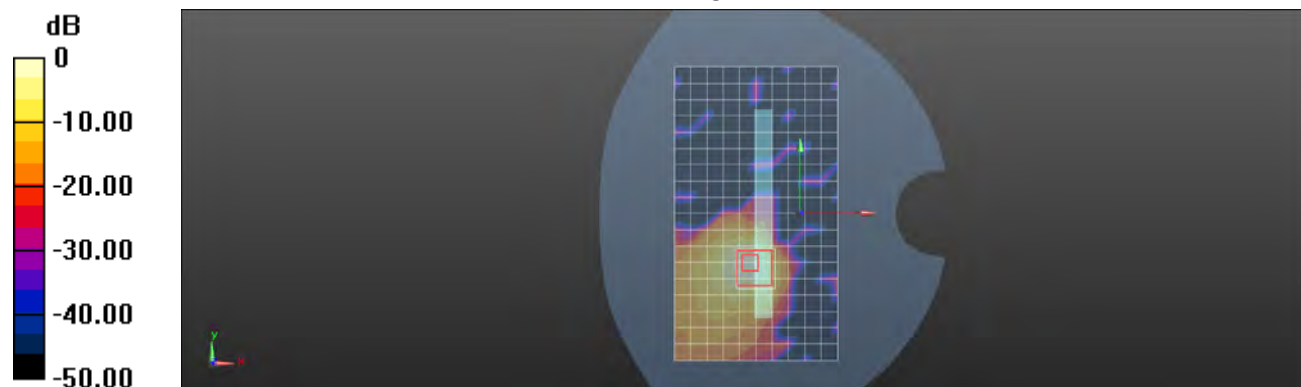
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.402 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.070 mW/g

**SAR(1 g) = 0.277 mW/g; SAR(10 g) = 0.081 mW/g**

Maximum value of SAR (measured) = 0.543 mW/g



0 dB = 0.543 mW/g = -5.30 dB mW/g

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Date: 2012/11/26

### RE Cheek\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.556$  mho/m;  $\epsilon_r = 35.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0199 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

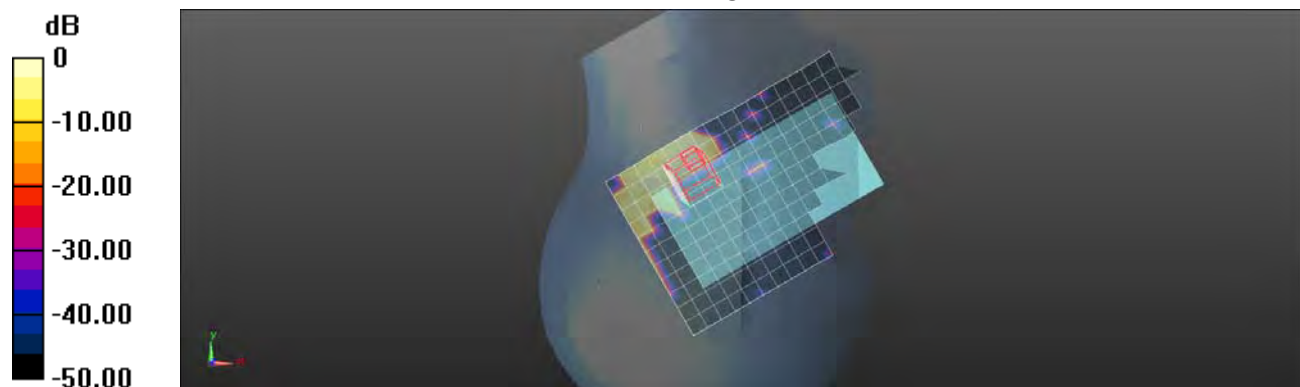
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.183 mW/g

**SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00197 mW/g**

Maximum value of SAR (measured) = 0.0306 mW/g



0 dB = 0.0306 mW/g = -30.29 dB mW/g

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Date: 2012/11/26

### RE Tilt\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.556$  mho/m;  $\epsilon_r = 35.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0110 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

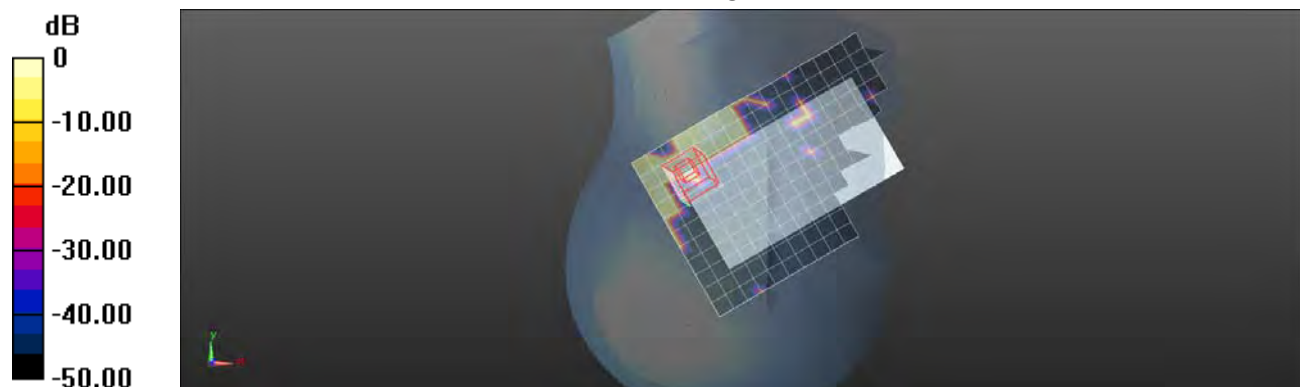
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.079 mW/g

**SAR(1 g) = 0.00332 mW/g; SAR(10 g) = 0.000371 mW/g**

Maximum value of SAR (measured) = 0.0128 mW/g



0 dB = 0.0128 mW/g = -37.86 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.556$  mho/m;  $\epsilon_r = 35.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0910 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

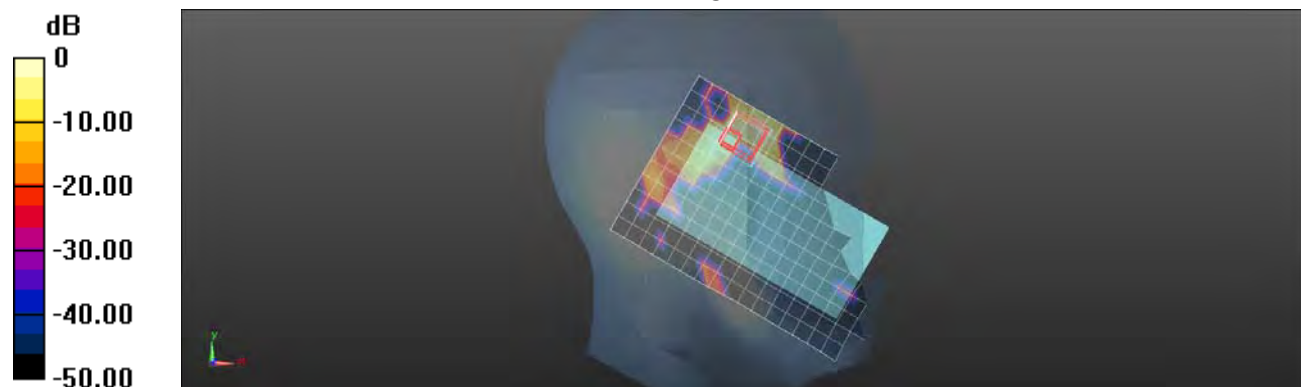
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.474 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.344 mW/g

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.136 mW/g



0 dB = 0.136 mW/g = -17.33 dB mW/g

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Date: 2012/11/26

### LE Cheek\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.597$  mho/m;  $\epsilon_r = 35.186$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0613 mW/g

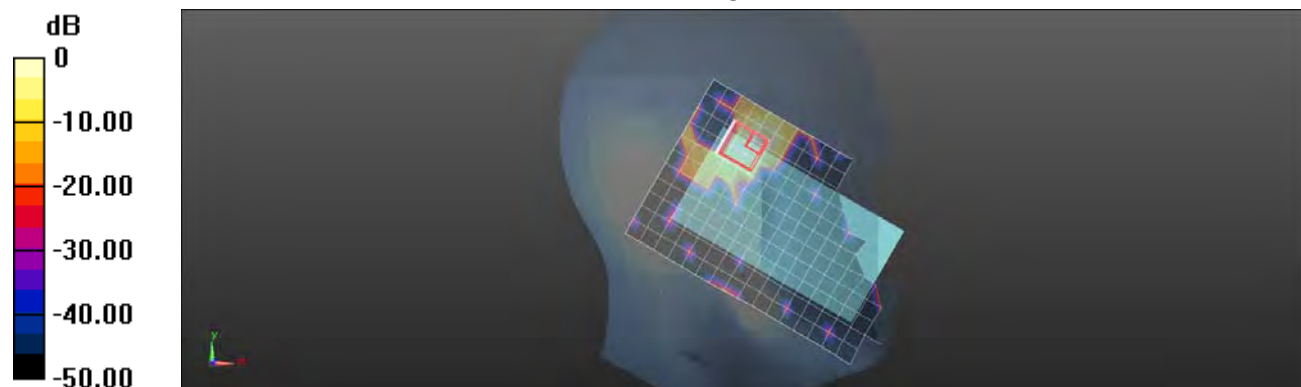
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.873 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.307 mW/g

**SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.011 mW/g**

Maximum value of SAR (measured) = 0.0827 mW/g



0 dB = 0.0827 mW/g = -21.65 dB mW/g

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Date: 2012/11/26

### LE Tilt\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 4.556$  mho/m;  $\epsilon_r = 35.264$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.99, 4.99, 4.99); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0387 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

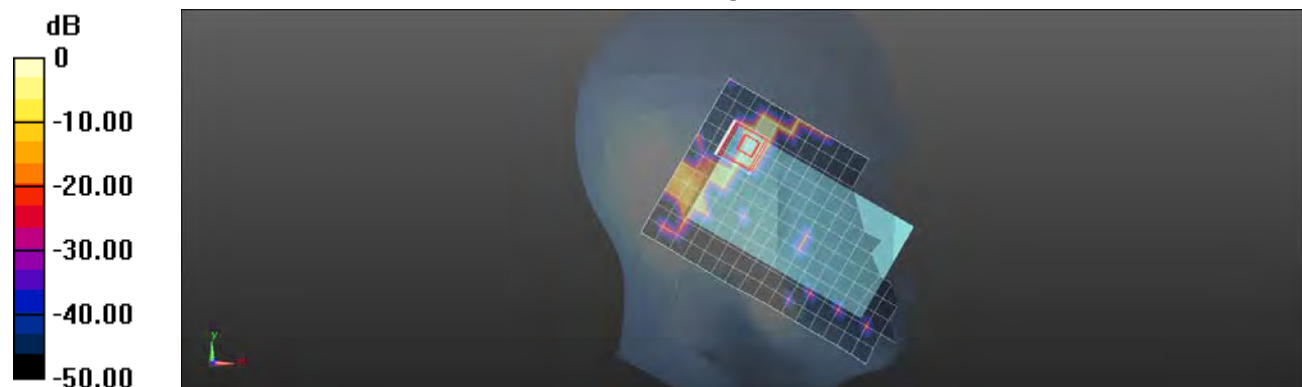
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.547 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.110 mW/g

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00203 mW/g**

Maximum value of SAR (measured) = 0.0395 mW/g



0 dB = 0.0395 mW/g = -28.07 dB mW/g

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Date: 2012/11/30

### Body-worn\_Front side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.413$  mho/m;  $\epsilon_r = 48.363$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0532 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

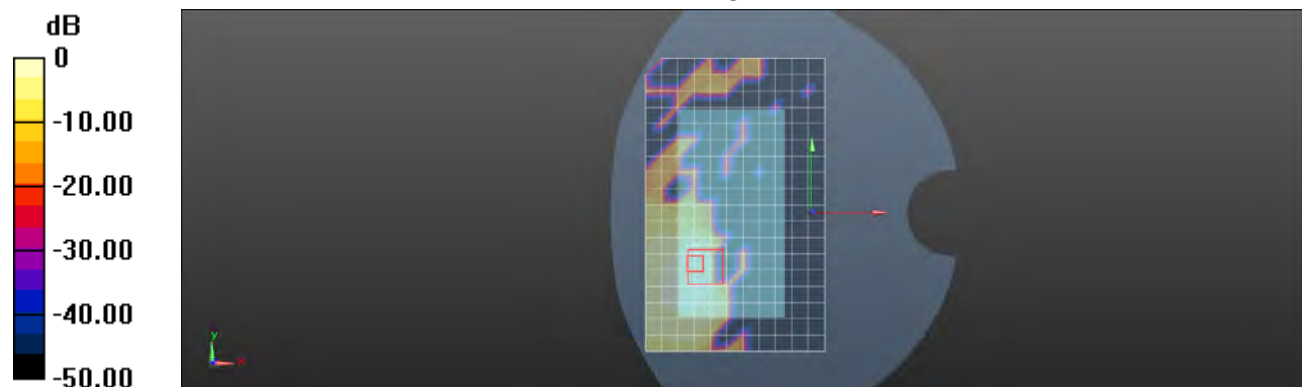
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.110 mW/g

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.00721 mW/g**

Maximum value of SAR (measured) = 0.0618 mW/g



0 dB = 0.0618 mW/g = -24.18 dB mW/g

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Date: 2012/11/30

### Body-worn\_Back side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 5.413 \text{ mho/m}$ ;  $\epsilon_r = 48.363$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.480 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

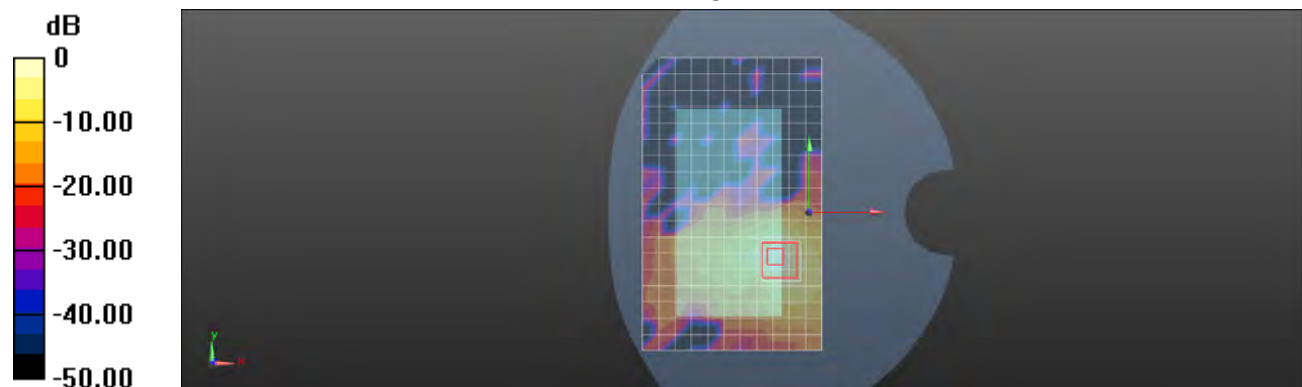
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.985 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.443 mW/g

**SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.076 mW/g**

Maximum value of SAR (measured) = 0.511 mW/g



0 dB = 0.511 mW/g = -5.83 dB mW/g

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Date: 2012/11/30

### Body-worn\_Top side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.413$  mho/m;  $\epsilon_r = 48.363$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0221 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

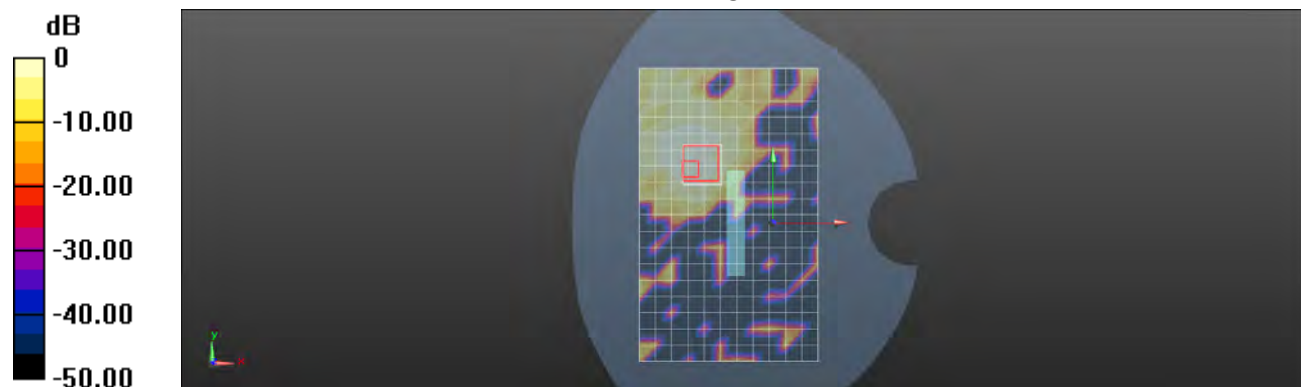
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.174 mW/g

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00364 mW/g**

Maximum value of SAR (measured) = 0.0223 mW/g



0 dB = 0.0223 mW/g = -33.03 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.413$  mho/m;  $\epsilon_r = 48.363$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.549 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

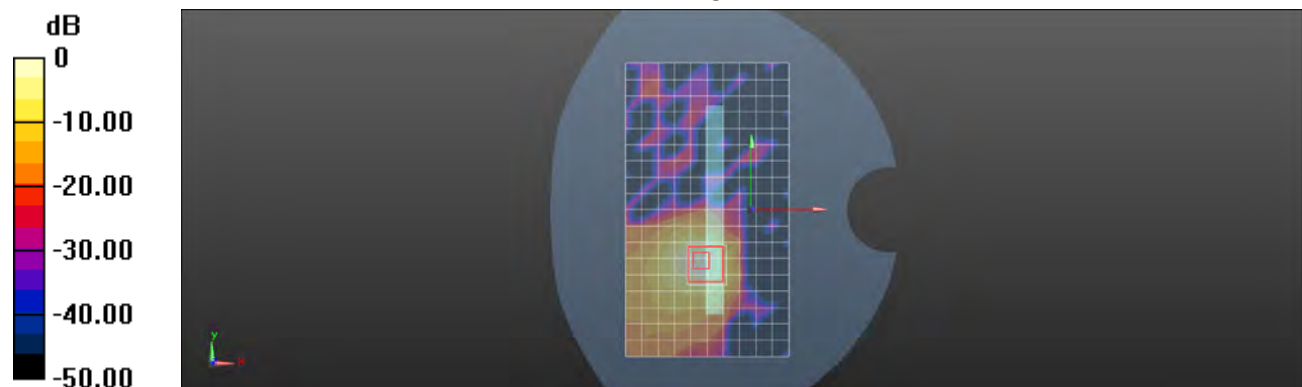
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.281 mW/g

**SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.093 mW/g**

Maximum value of SAR (measured) = 0.615 mW/g



0 dB = 0.615 mW/g = -4.22 dB mW/g

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Date: 2012/11/30

### Body-worn\_Right side\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 5.468$  mho/m;  $\epsilon_r = 48.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.17, 4.17, 4.17); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.194 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

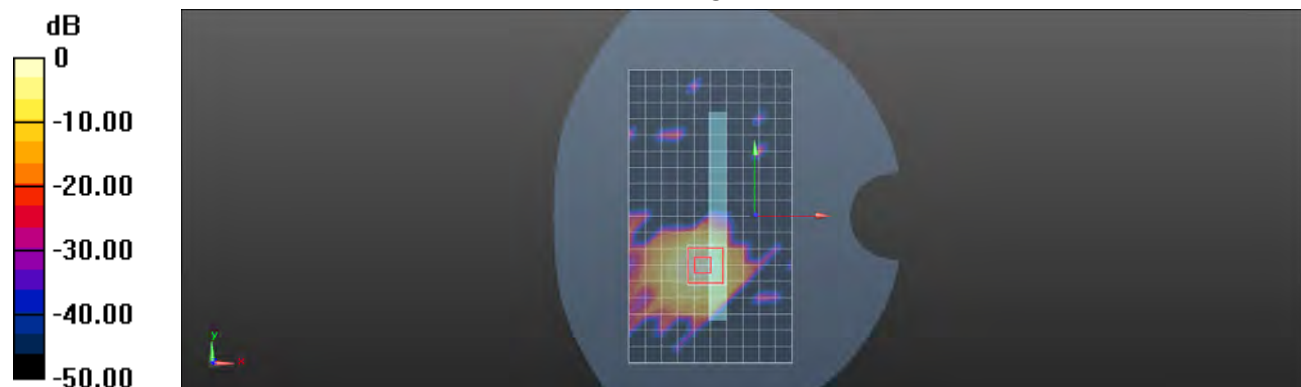
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.681 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.410 mW/g

**SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.237 mW/g



0 dB = 0.237 mW/g = -12.51 dB mW/g

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Date: 2012/12/3

### RE Cheek\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.002$  mho/m;  $\epsilon_r = 34.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0729 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

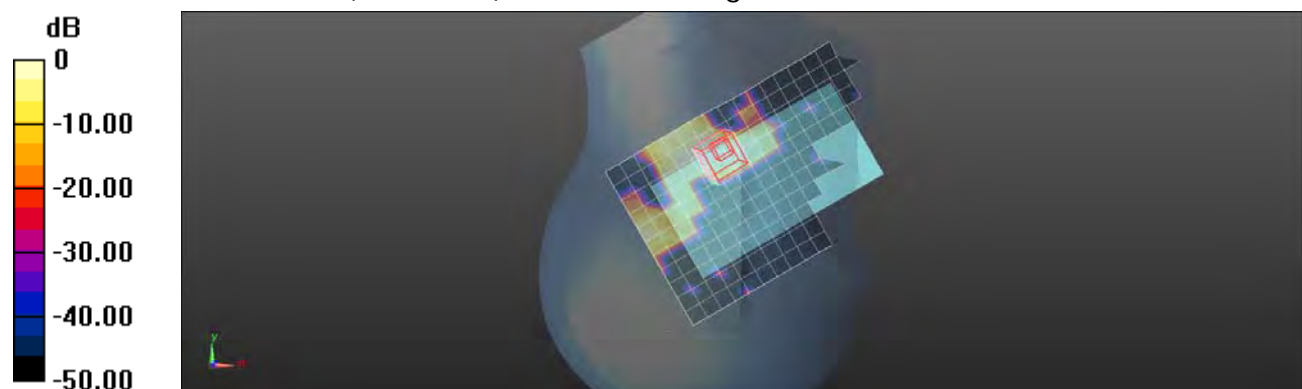
dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.052 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.363 mW/g

**SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.0907 mW/g



0 dB = 0.0907 mW/g = -20.85 dB mW/g

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Date: 2012/12/3

### RE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.002$  mho/m;  $\epsilon_r = 34.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0497 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

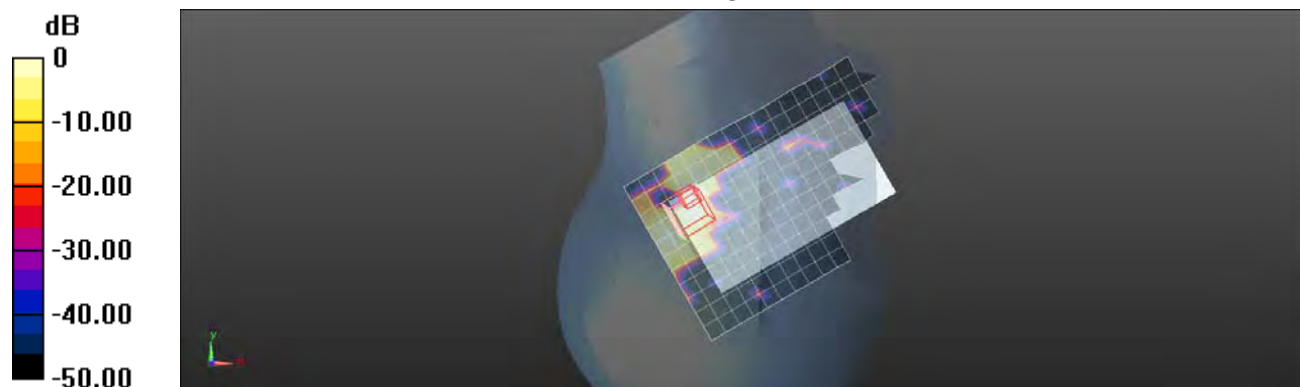
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.422 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.448 mW/g

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.00332 mW/g**

Maximum value of SAR (measured) = 0.0585 mW/g



0 dB = 0.0585 mW/g = -24.66 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 4.825 \text{ mho/m}$ ;  $\epsilon_r = 34.759$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.129 mW/g

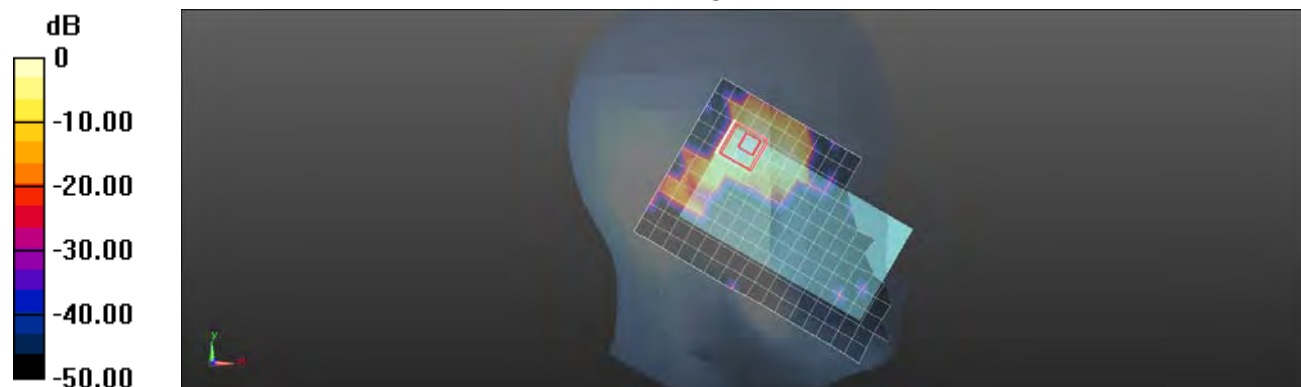
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.355 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.310 mW/g

**SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.152 mW/g



0 dB = 0.152 mW/g = -16.36 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590 \text{ MHz}$ ;  $\sigma = 4.911 \text{ mho/m}$ ;  $\epsilon_r = 34.588$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.409 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

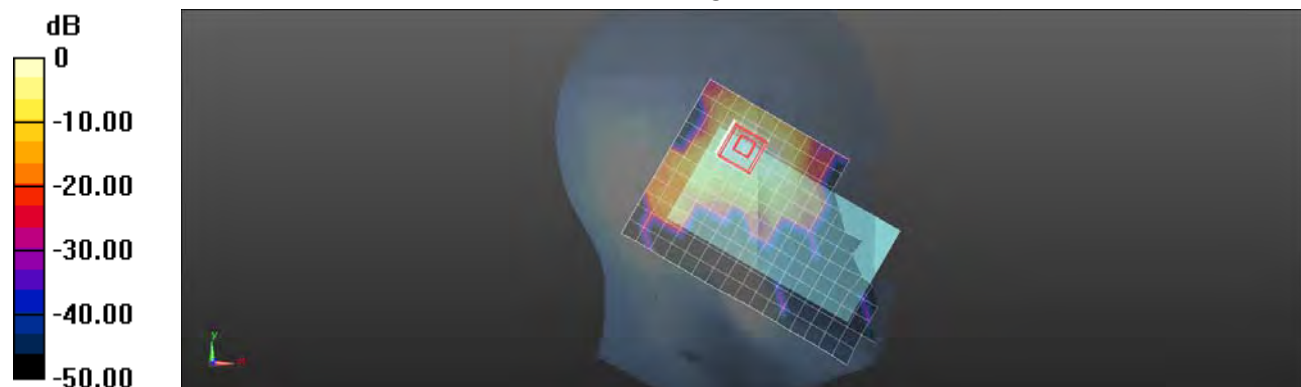
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.038 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.993 mW/g

**SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.083 mW/g**

Maximum value of SAR (measured) = 0.471 mW/g



0 dB = 0.471 mW/g = -6.54 dB mW/g

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Date: 2012/12/3

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.002$  mho/m;  $\epsilon_r = 34.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.367 mW/g

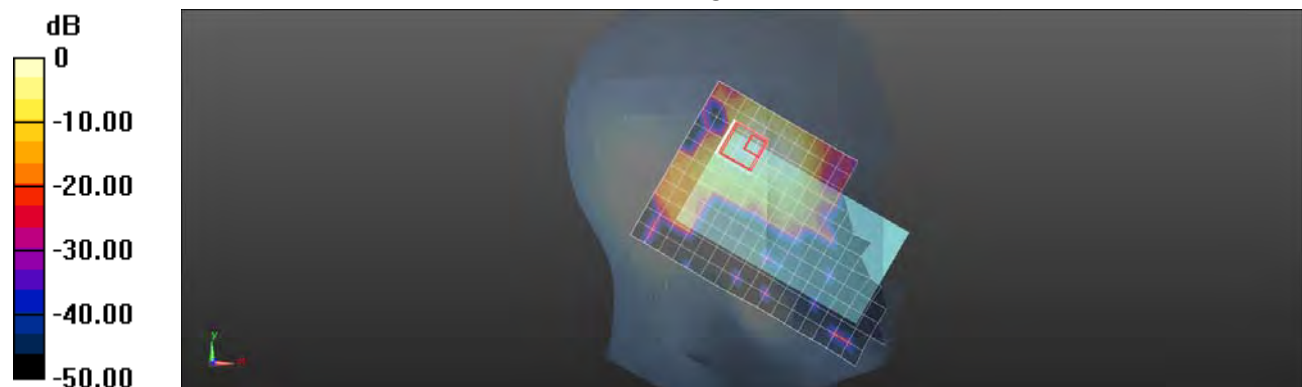
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.179 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.905 mW/g

**SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.059 mW/g**

Maximum value of SAR (measured) = 0.392 mW/g



0 dB = 0.392 mW/g = -8.13 dB mW/g

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Date: 2012/12/3

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.002$  mho/m;  $\epsilon_r = 34.417$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.156 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

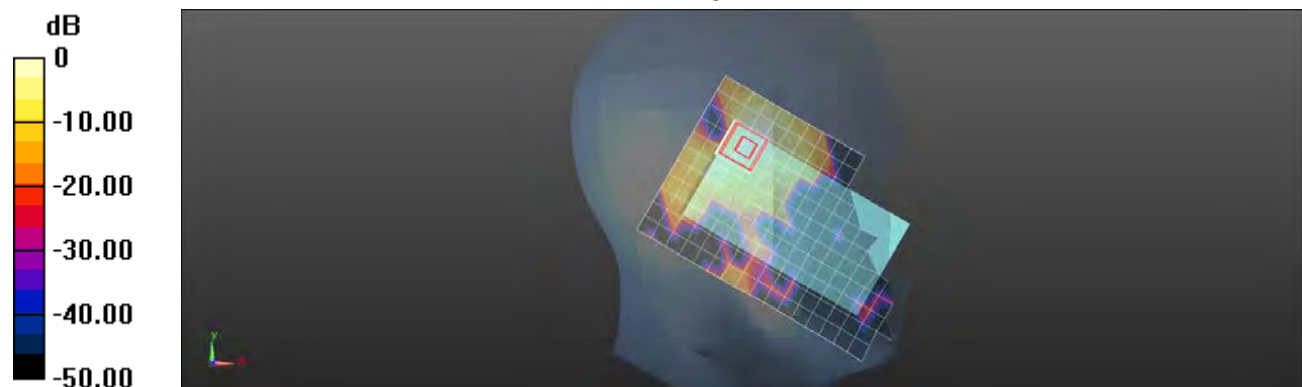
dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.729 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.346 mW/g

**SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.177 mW/g



0 dB = 0.177 mW/g = -15.04 dB mW/g

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Date: 2012/12/10

### Body-worn\_Front side\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.985$  mho/m;  $\epsilon_r = 47.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0629 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

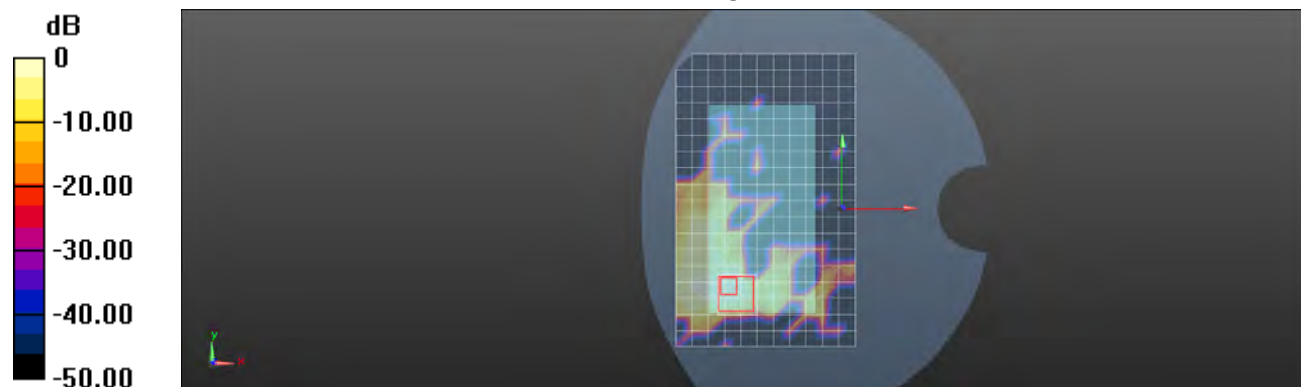
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.227 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.151 mW/g

**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.00702 mW/g**

Maximum value of SAR (measured) = 0.0666 mW/g



0 dB = 0.0666 mW/g = -23.53 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 5.755 \text{ mho/m}$ ;  $\epsilon_r = 47.886$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.422 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

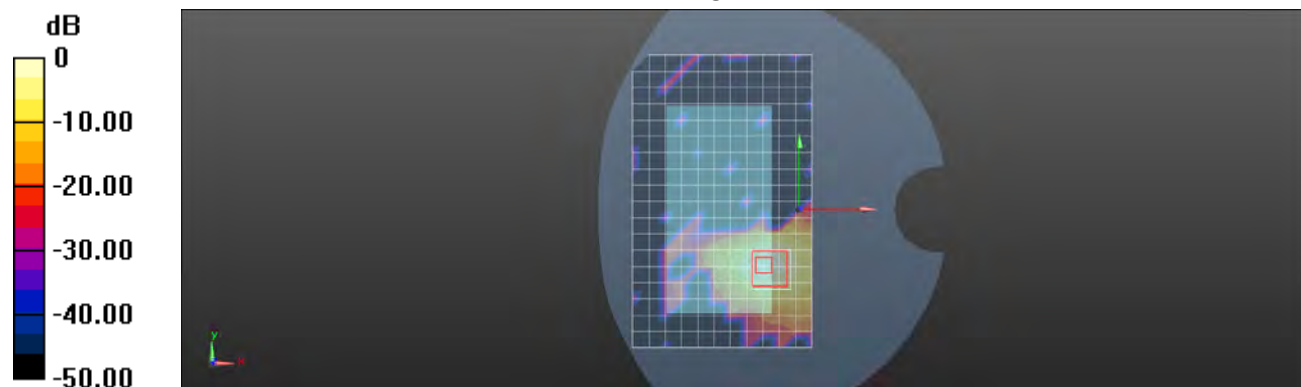
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.663 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.626 mW/g

**SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.068 mW/g**

Maximum value of SAR (measured) = 0.421 mW/g



0 dB = 0.421 mW/g = -7.51 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.873$  mho/m;  $\epsilon_r = 47.715$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 1.27 mW/g

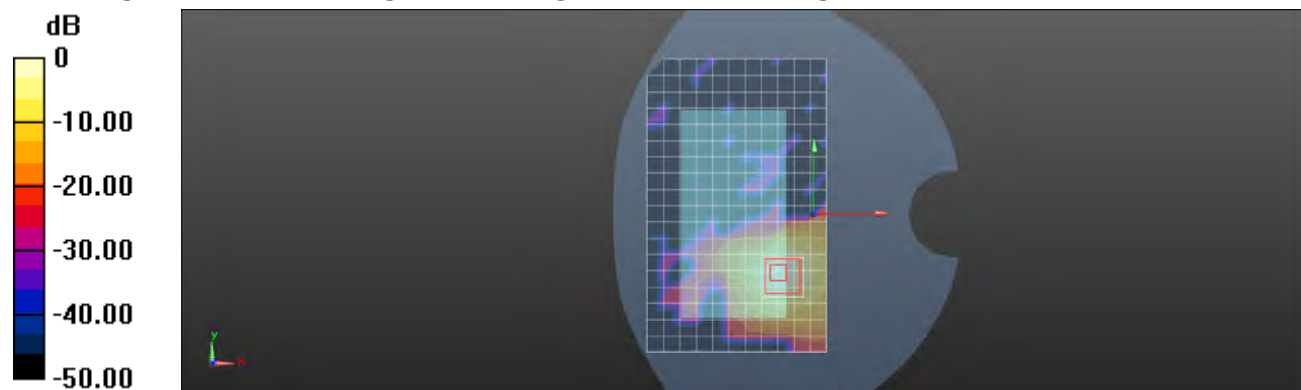
**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.165 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.542 mW/g

**SAR(1 g) = 0.647 mW/g; SAR(10 g) = 0.210 mW/g**



0 dB = 1.27 mW/g = 2.08 dB mW/g

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Date: 2012/12/10

### Body-worn\_Back side\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.985$  mho/m;  $\epsilon_r = 47.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.868 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

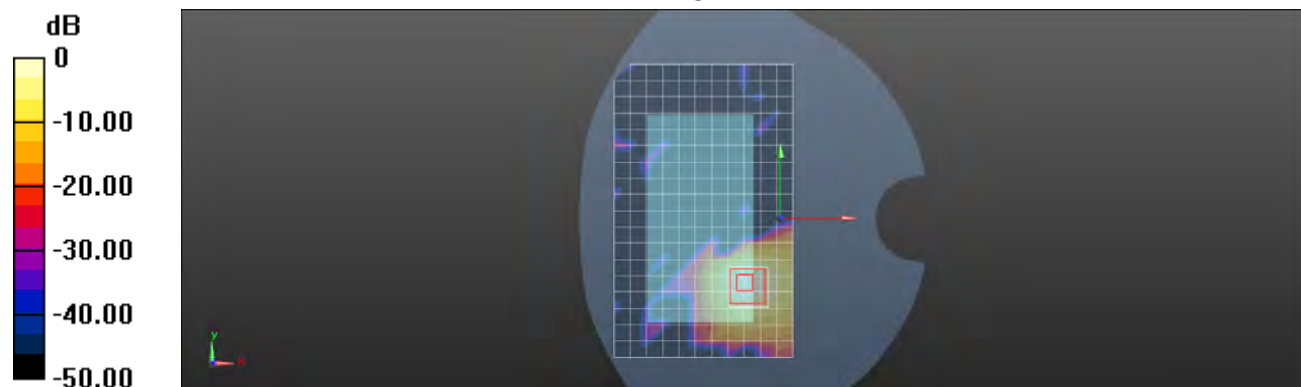
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.429 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.205 mW/g

**SAR(1 g) = 0.539 mW/g; SAR(10 g) = 0.171 mW/g**

Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04 mW/g = 0.34 dB mW/g

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Date: 2012/12/10

### Body-worn\_Top side\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.985$  mho/m;  $\epsilon_r = 47.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0351 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

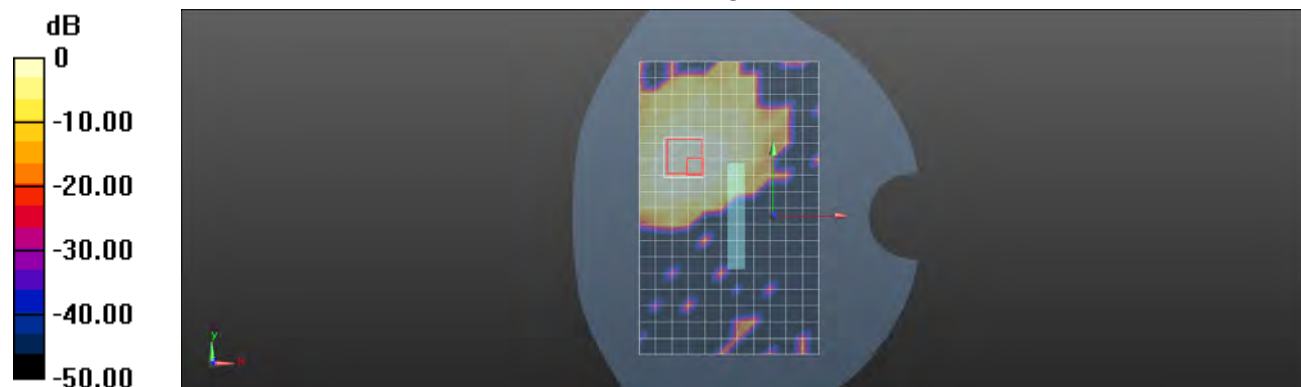
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.917 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.297 mW/g

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.00879 mW/g**

Maximum value of SAR (measured) = 0.0408 mW/g



0 dB = 0.0408 mW/g = -27.79 dB mW/g

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Date: 2012/12/10

### Body-worn\_Right side\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.985$  mho/m;  $\epsilon_r = 47.551$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.435 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

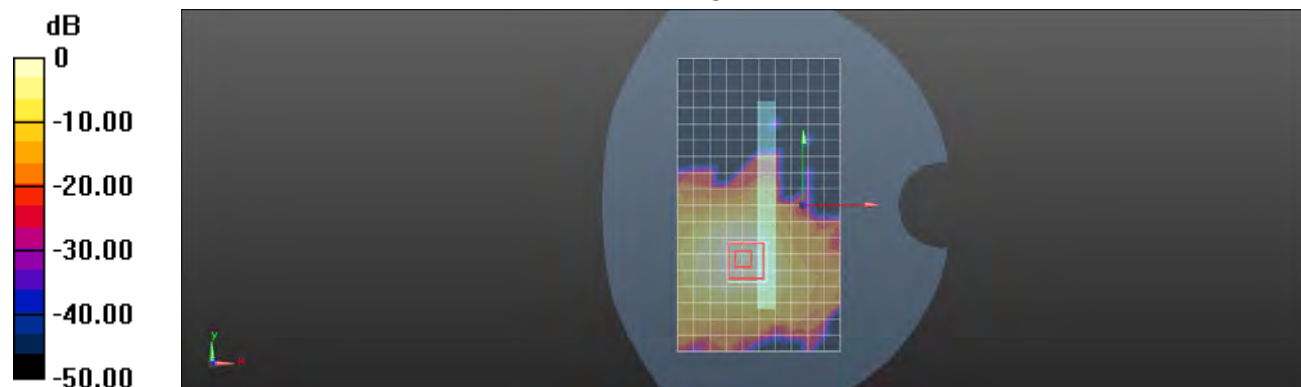
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 2.752 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.945 mW/g

**SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.090 mW/g**

Maximum value of SAR (measured) = 0.446 mW/g



0 dB = 0.446 mW/g = -7.01 dB mW/g

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Date: 2012/12/11

### RE Cheek\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.095$  mho/m;  $\epsilon_r = 34.249$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0593 mW/g

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

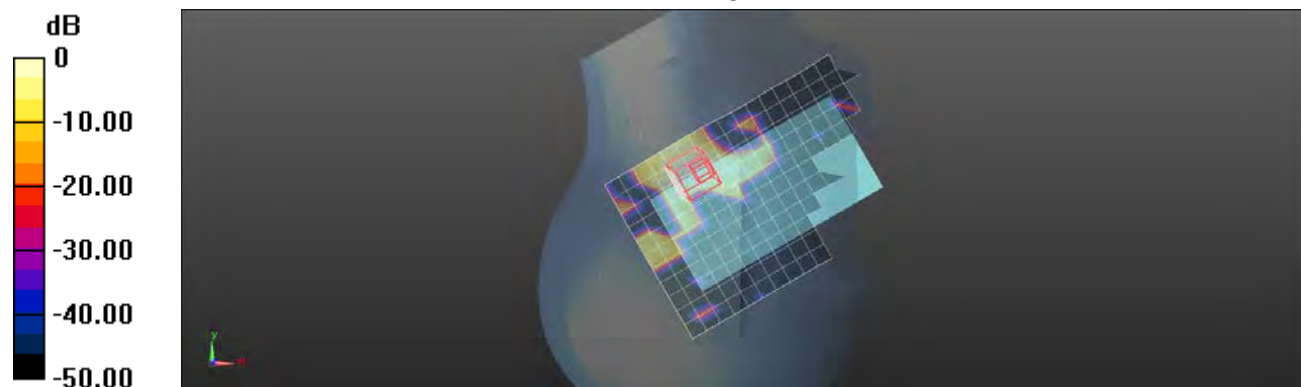
dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.900 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.470 mW/g

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.0796 mW/g



0 dB = 0.0796 mW/g = -21.98 dB mW/g

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Date: 2012/12/11

### RE Tilt\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.095$  mho/m;  $\epsilon_r = 34.249$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.0410 mW/g

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

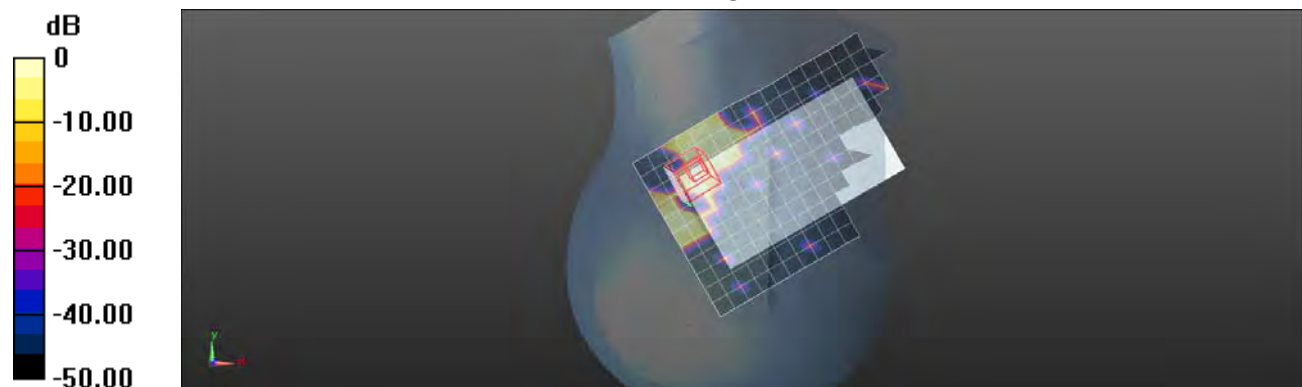
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.010 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.407 mW/g

**SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.00558 mW/g**

Maximum value of SAR (measured) = 0.0486 mW/g



0 dB = 0.0486 mW/g = -26.27 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.095 \text{ mho/m}$ ;  $\epsilon_r = 34.249$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.348 mW/g

**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

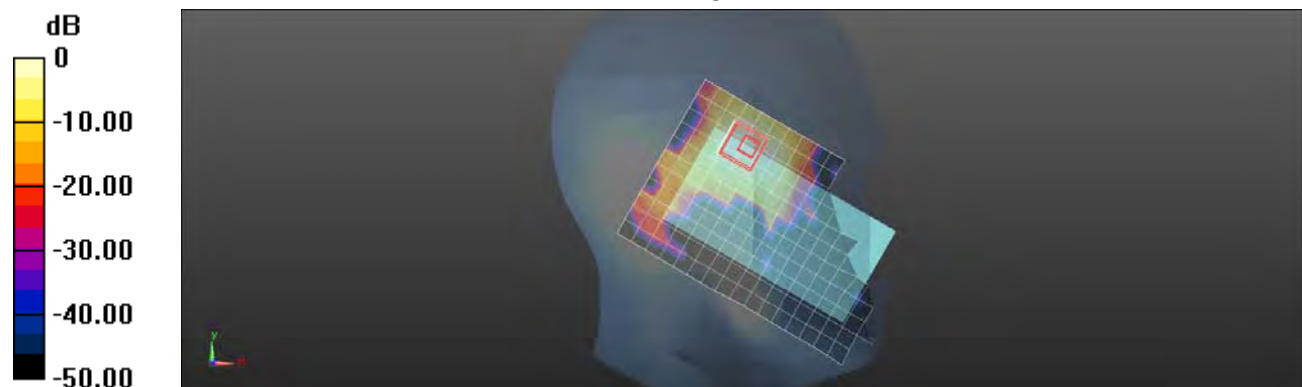
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.478 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.840 mW/g

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.063 mW/g**

Maximum value of SAR (measured) = 0.370 mW/g



0 dB = 0.370 mW/g = -8.64 dB mW/g

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Date: 2012/12/11

### LE Cheek\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 5.142$  mho/m;  $\epsilon_r = 34.169$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.170 mW/g

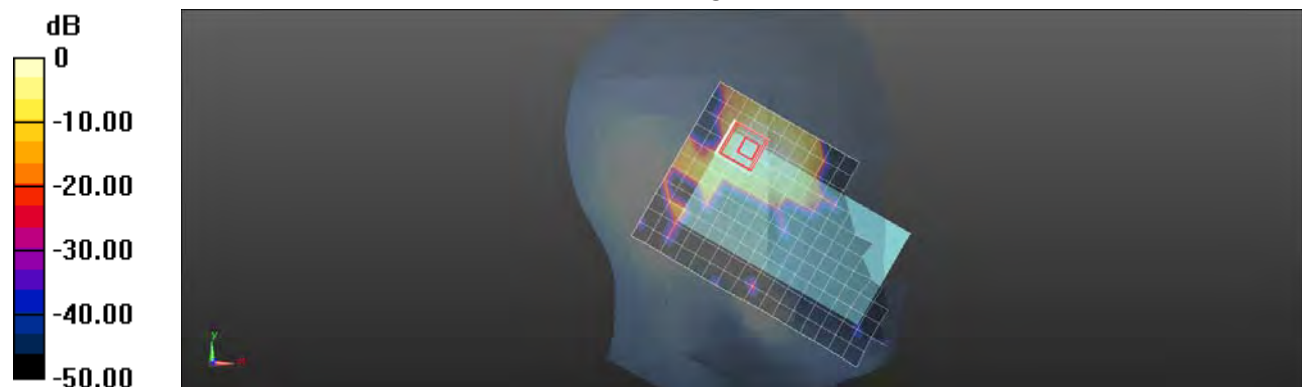
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.393 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.388 mW/g

**SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.193 mW/g



0 dB = 0.193 mW/g = -14.29 dB mW/g

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Date: 2012/12/11

### LE Tilt\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.095 \text{ mho/m}$ ;  $\epsilon_r = 34.249$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/LE Tilt/Area Scan (12x18x1)**: Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.135 mW/g

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0**: Measurement grid:

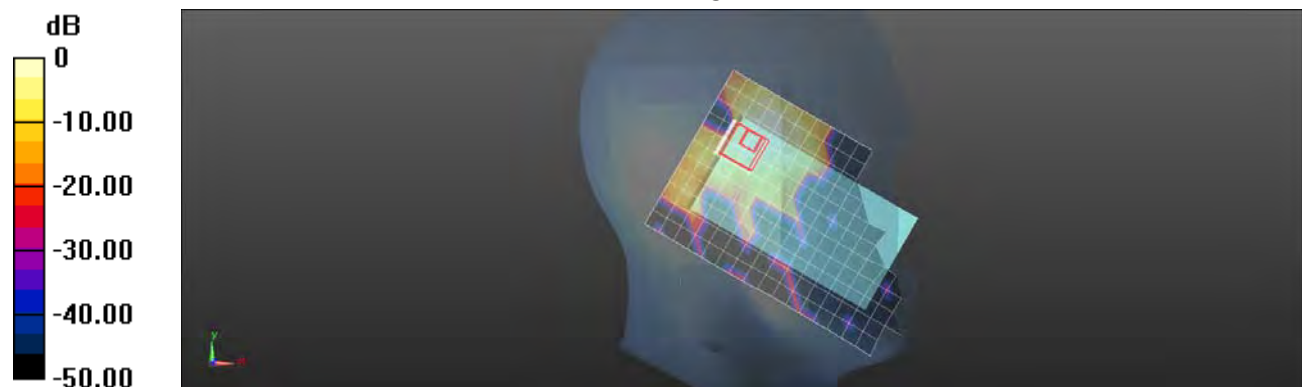
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 2.673 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.289 mW/g

**SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.018 mW/g**

Maximum value of SAR (measured) = 0.134 mW/g



0 dB = 0.134 mW/g = -17.46 dB mW/g

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Date: 2012/12/12

### Body-worn\_Front side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 6.106 \text{ mho/m}$ ;  $\epsilon_r = 47.407$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0315 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

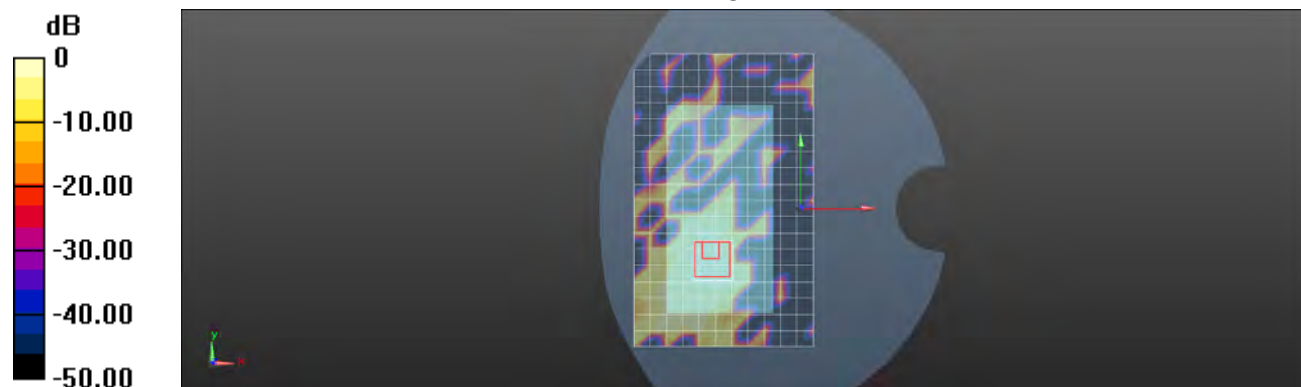
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.301 mW/g

**SAR(1 g) = 0.025 mW/g; SAR(10 g) = 0.0077 mW/g**

Maximum value of SAR (measured) = 0.0355 mW/g



0 dB = 0.0355 mW/g = -29.00 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 6.106 \text{ mho/m}$ ;  $\epsilon_r = 47.407$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.426 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

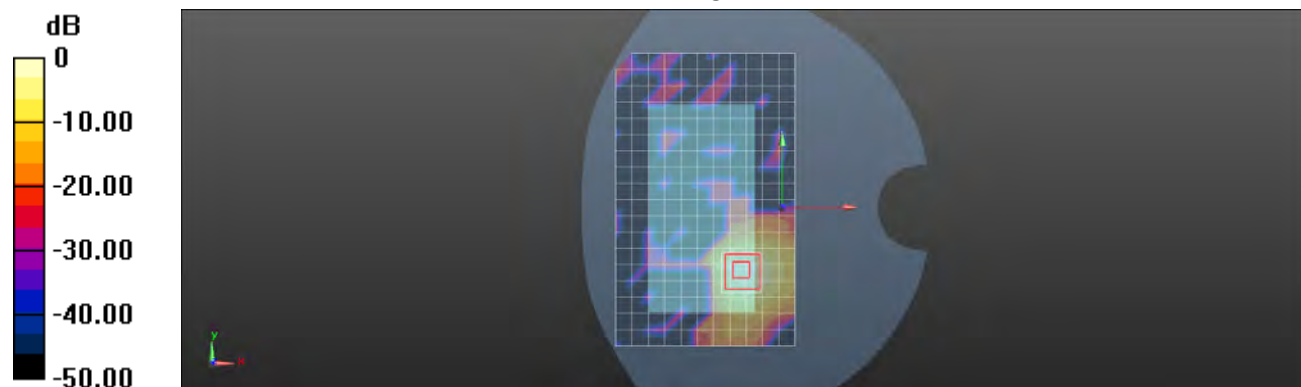
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.914 mW/g

**SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.495 mW/g



0 dB = 0.495 mW/g = -6.11 dB mW/g

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Date: 2012/12/12

### Body-worn\_Back side\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.171$  mho/m;  $\epsilon_r = 47.318$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.389 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

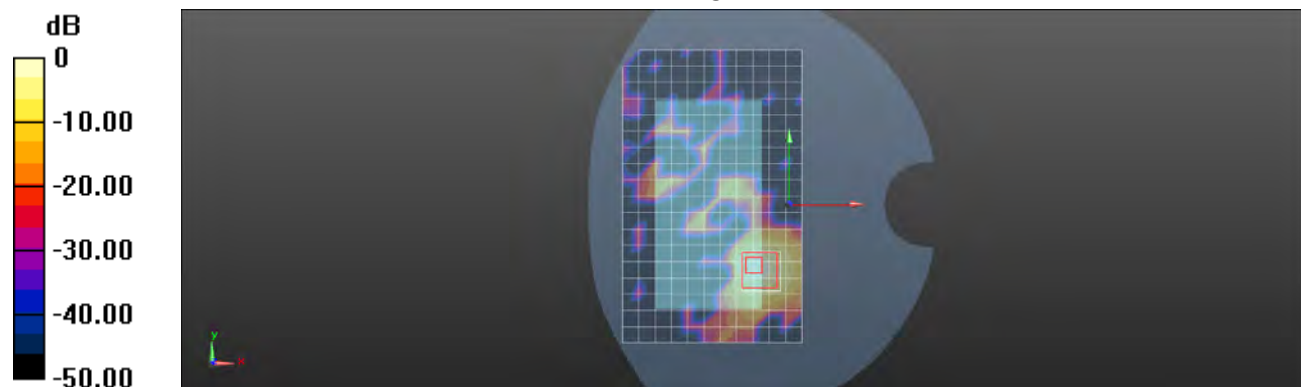
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.050 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.785 mW/g

**SAR(1 g) = 0.200 mW/g; SAR(10 g) = 0.060 mW/g**

Maximum value of SAR (measured) = 0.431 mW/g



0 dB = 0.431 mW/g = -7.31 dB mW/g

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Date: 2012/12/12

### Body-worn\_Top side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 6.106$  mho/m;  $\epsilon_r = 47.407$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (12x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0226 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

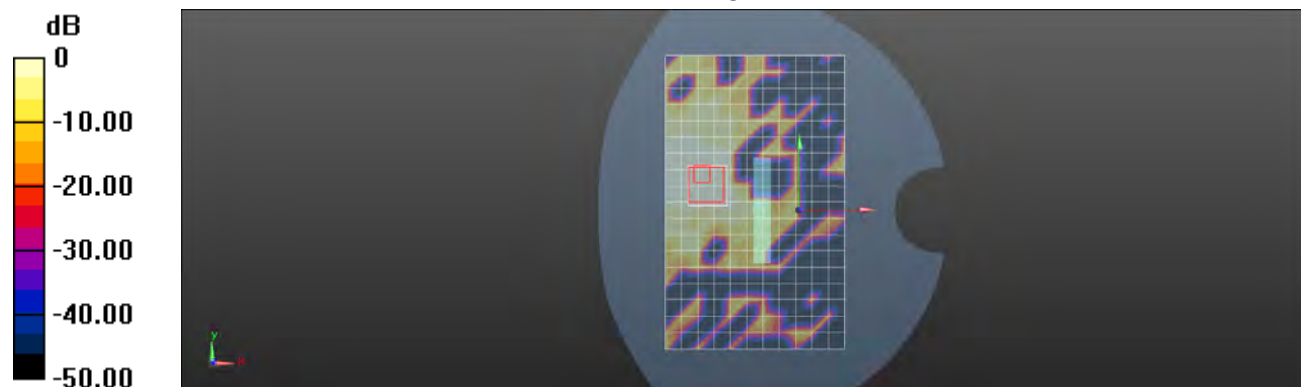
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.145 mW/g

**SAR(1 g) = 0.00756 mW/g; SAR(10 g) = 0.00146 mW/g**

Maximum value of SAR (measured) = 0.0220 mW/g



0 dB = 0.0220 mW/g = -33.15 dB mW/g

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Date: 2012/12/12

### Body-worn\_Right side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 6.106$  mho/m;  $\epsilon_r = 47.407$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

**Configuration/Body-worn/Area Scan (11x19x1):** Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.249 mW/g

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

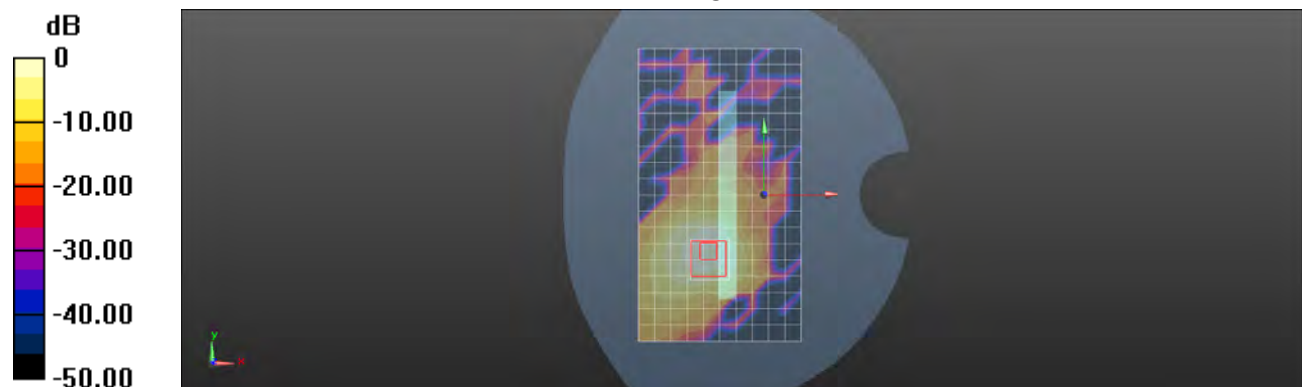
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.717 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.439 mW/g

**SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.279 mW/g



0 dB = 0.279 mW/g = -11.09 dB mW/g

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## 5. System Verification

Date: 2013/1/11

### Dipole\_835 MHz (Head)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.903 \text{ mho/m}$ ;  $\epsilon_r = 40.913$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.9, 8.9, 8.9); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Area Scan

**(5x13x1)**: Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.78 mW/g

### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Zoom Scan

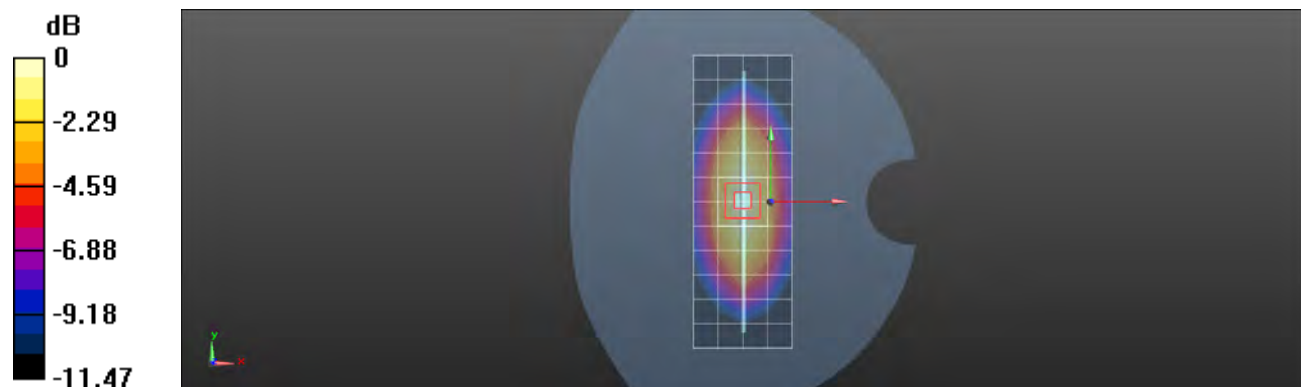
**(7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 57.100 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 3.354 mW/g

**SAR(1 g) = 2.21 mW/g; SAR(10 g) = 1.4 mW/g**

Maximum value of SAR (measured) = 2.82 mW/g


 $0 \text{ dB} = 2.82 \text{ mW/g} = 9.00 \text{ dB mW/g}$ 

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Date: 2013/1/11

### Dipole\_835 MHz (Body)

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 53.467$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.11, 9.11, 9.11); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Area Scan (6x14x1):

Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.93 mW/g

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

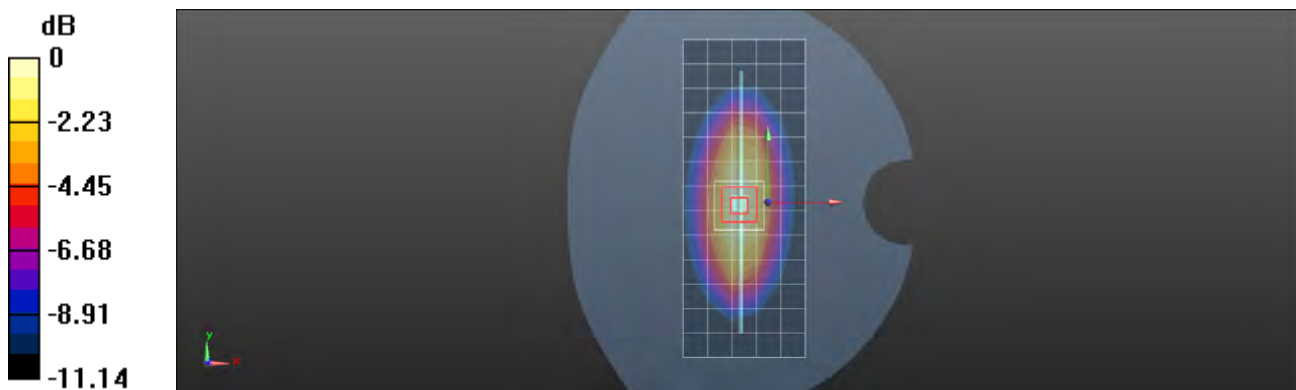
Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 57.423 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.789 mW/g

**SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.58 mW/g**

Maximum value of SAR (measured) = 3.18 mW/g



0 dB = 3.18 mW/g = 10.05 dB mW/g

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Date: 2013/1/13

## Dipole\_1750 MHz (Head)

Communication System: CW; Frequency: 1750 MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.372$  mho/m;  $\epsilon_r = 41.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.82, 7.82, 7.82); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan

**(6x7x1)**: Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.71 mW/g

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan

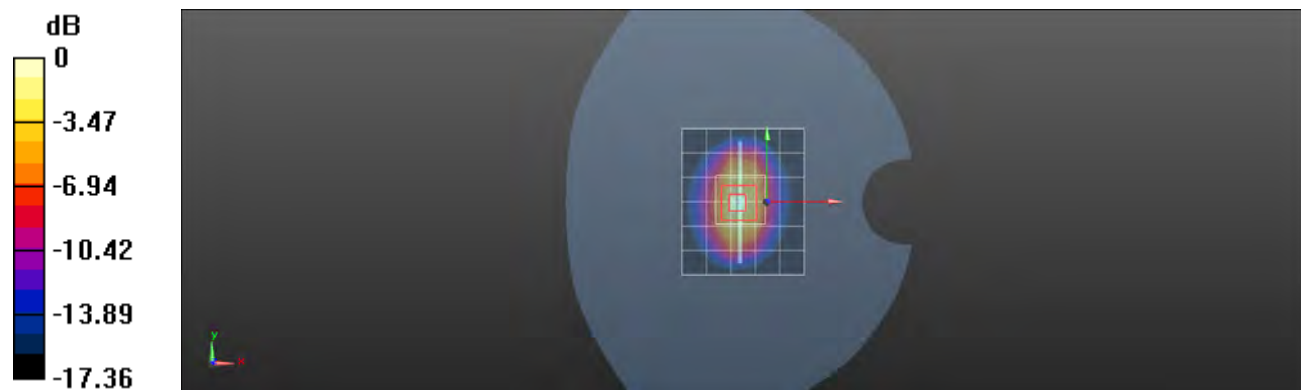
**(7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.359 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 16.743 mW/g

**SAR(1 g) = 8.87 mW/g; SAR(10 g) = 4.65 mW/g**

Maximum value of SAR (measured) = 12.8 mW/g



0 dB = 12.8 mW/g = 22.14 dB mW/g

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Date: 2013/1/13

## Dipole\_1750 MHz (Body)

Communication System: CW; Frequency: 1750 MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.474$  mho/m;  $\epsilon_r = 53.045$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2007)

DASy Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.48, 7.48, 7.48); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASy52 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

**(6x7x1)**: Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 13.1 mW/g

## Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

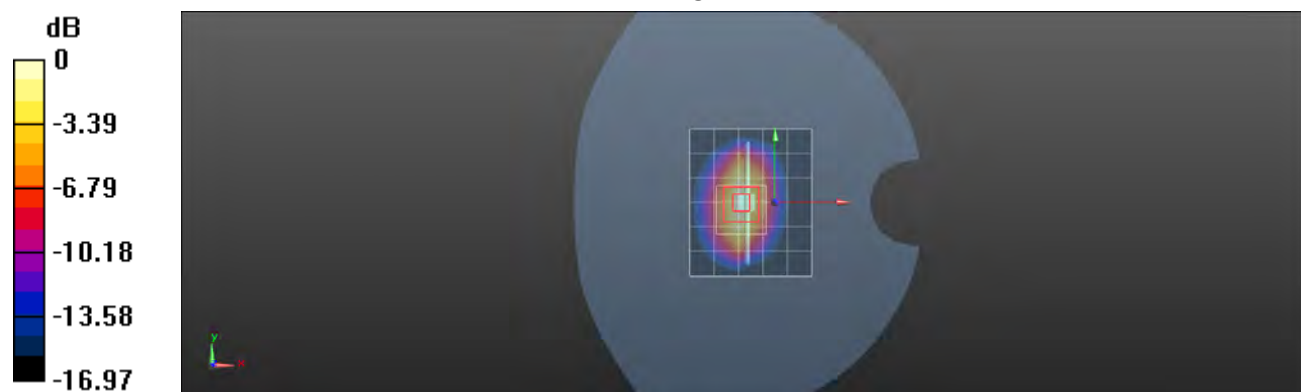
**(7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.196 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.777 mW/g

**SAR(1 g) = 9.46 mW/g; SAR(10 g) = 5.05 mW/g**

Maximum value of SAR (measured) = 13.4 mW/g



0 dB = 13.4 mW/g = 22.54 dB mW/g

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Date: 2013/1/12

## Dipole\_1900 MHz (Head)

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.382$  mho/m;  $\epsilon_r = 40.132$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.55, 7.55, 7.55); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan

**(6x7x1)**: Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.2 mW/g

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan

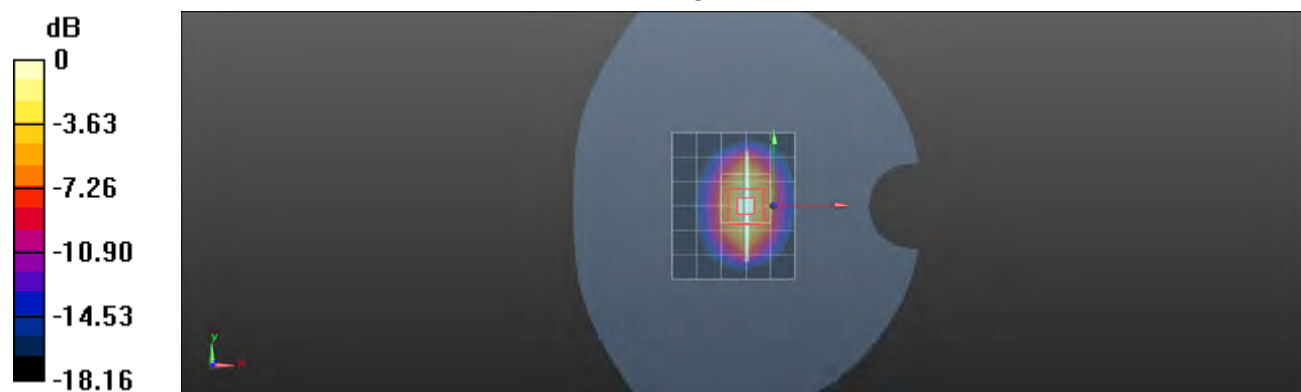
**(7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.8 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.110 mW/g

**SAR(1 g) = 9.79 mW/g; SAR(10 g) = 5.1 mW/g**

Maximum value of SAR (measured) = 14.1 mW/g



0 dB = 14.1 mW/g = 22.98 dB mW/g

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Date: 2013/1/12

## Dipole\_1900 MHz (Body)

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.536$  mho/m;  $\epsilon_r = 51.288$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.28, 7.28, 7.28); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

**(6x7x1)**: Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 13.8 mW/g

## Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

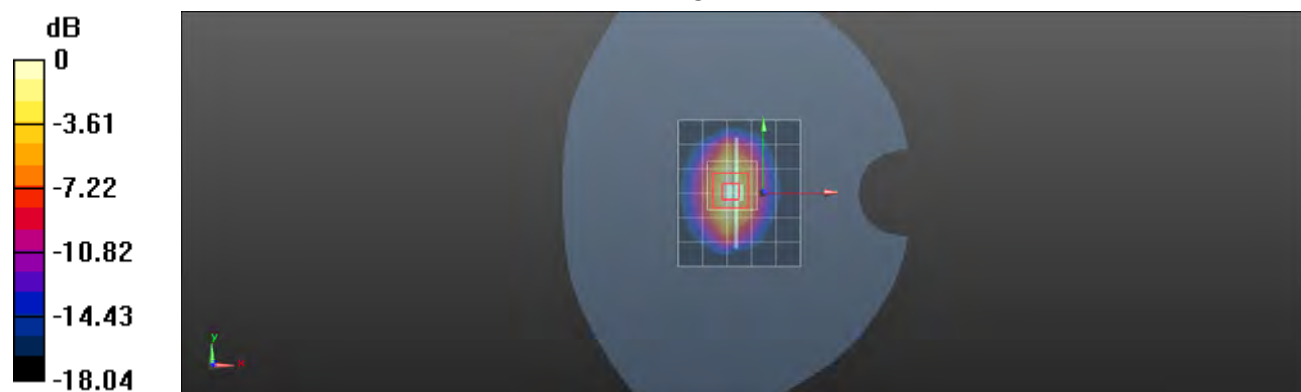
**(7x7x7)/Cube 0**: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 94.974 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 18.239 mW/g

**SAR(1 g) = 9.96 mW/g; SAR(10 g) = 5.17 mW/g**

Maximum value of SAR (measured) = 14.2 mW/g



0 dB = 14.2 mW/g = 23.05 dB mW/g

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Date: 2012/11/14

## Dipole\_2450 MHz (Head)

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.804$  mho/m;  $\epsilon_r = 39.847$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.78, 6.78, 6.78); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan

**(6x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.7 mW/g

## Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan

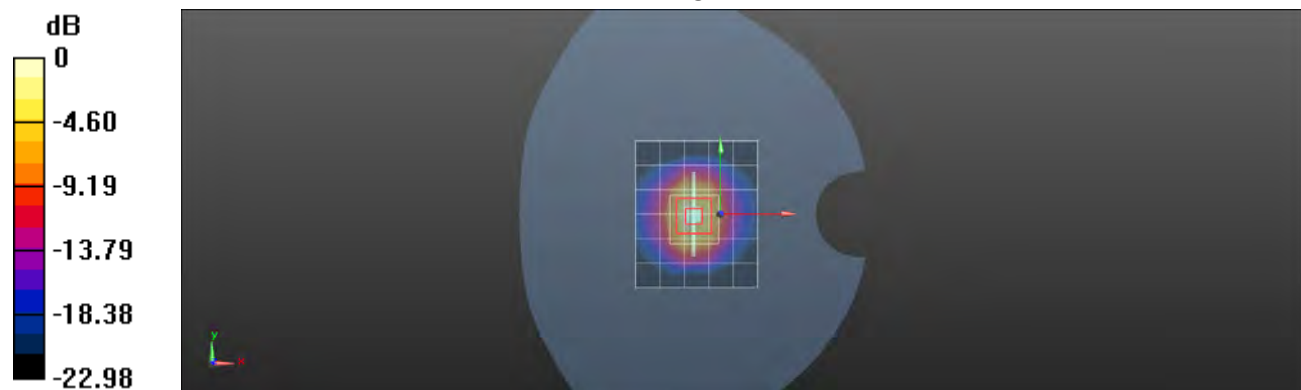
**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.1 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 26.724 mW/g

**SAR(1 g) = 12.6 mW/g; SAR(10 g) = 5.81 mW/g**

Maximum value of SAR (measured) = 19.5 mW/g



0 dB = 19.5 mW/g = 25.80 dB mW/g

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Date: 2012/11/14

### Dipole\_2450 MHz (Body)

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.956$  mho/m;  $\epsilon_r = 53.021$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(6.95, 6.95, 6.95); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

(5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 20.1 mW/g

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

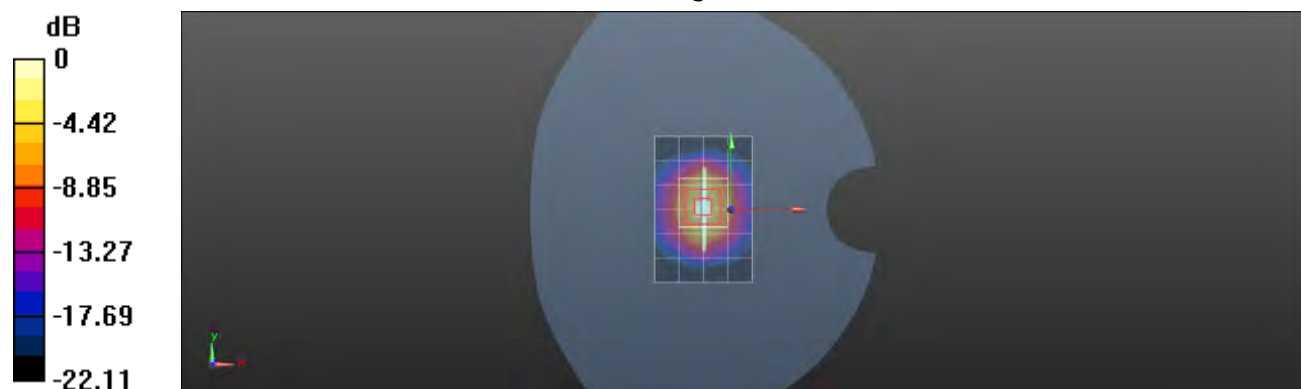
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.4 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 27.421 mW/g

**SAR(1 g) = 13.2 mW/g; SAR(10 g) = 6.18 mW/g**

Maximum value of SAR (measured) = 19.9 mW/g



0 dB = 19.9 mW/g = 25.98 dB mW/g

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Date: 2012/11/21

### Dipole 5.2GHz (Head)

Communication System: CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.473$  mho/m;  $\epsilon_r = 35.423$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

(6x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.7 mW/g

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

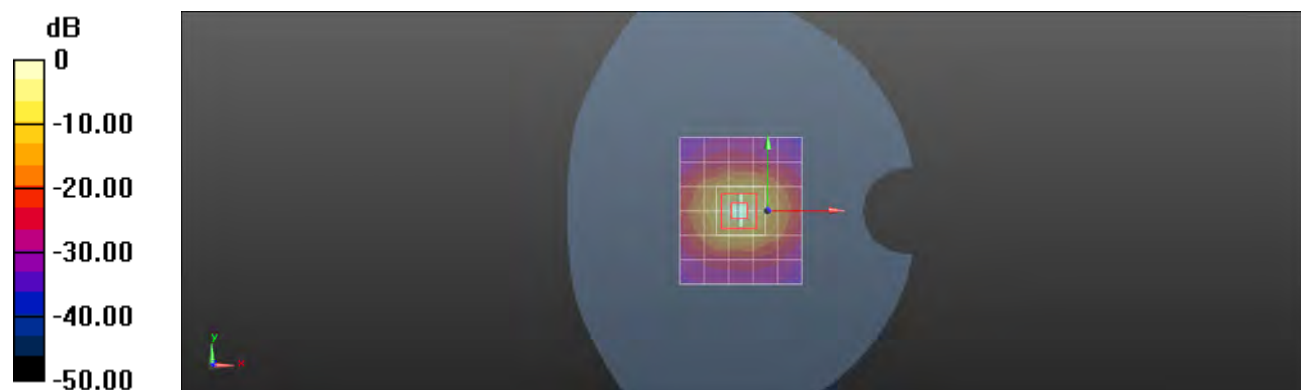
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 64.082 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 33.925 mW/g

**SAR(1 g) = 8.01 mW/g; SAR(10 g) = 2.28 mW/g**

Maximum value of SAR (measured) = 16.6 mW/g



0 dB = 16.6 mW/g = 24.40 dB mW/g

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Date: 2012/11/25

## Dipole 5.2GHz (Body)

Communication System: CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.31$  mho/m;  $\epsilon_r = 48.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(6x7x1)**: Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.7 mW/g

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

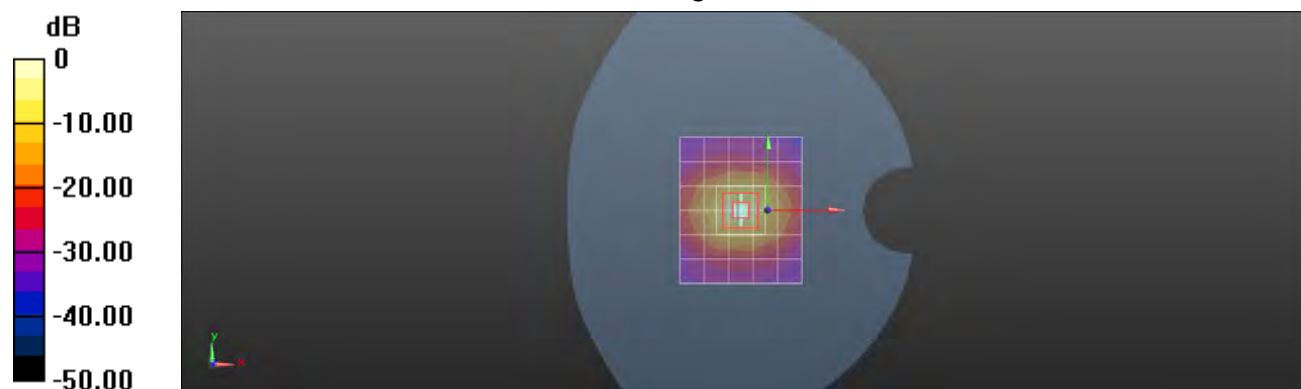
**(7x7x7)/Cube 0**: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.091 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 31.418 mW/g

**SAR(1 g) = 7.56 mW/g; SAR(10 g) = 2.1 mW/g**

Maximum value of SAR (measured) = 15.7 mW/g



0 dB = 15.7 mW/g = 23.92 dB mW/g

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Date: 2012/11/26

### Dipole 5.2GHz (Head)

Communication System: CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.491$  mho/m;  $\epsilon_r = 35.485$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.24, 5.24, 5.24); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

(6x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 10.2 mW/g

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

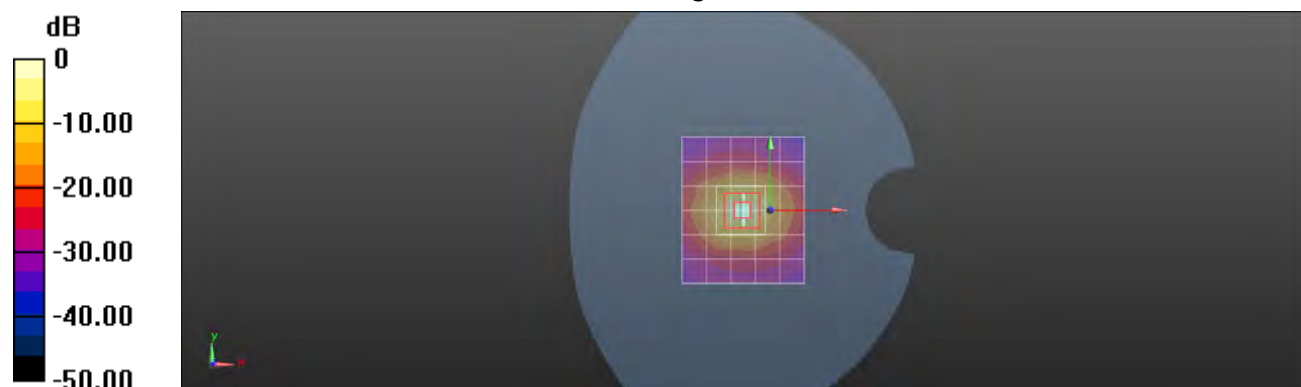
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 64.065 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 32.936 mW/g

**SAR(1 g) = 7.92 mW/g; SAR(10 g) = 2.24 mW/g**

Maximum value of SAR (measured) = 16.3 mW/g



0 dB = 16.3 mW/g = 24.24 dB mW/g

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Date: 2012/11/30

## Dipole 5.2GHz (Body)

Communication System: CW; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.299$  mho/m;  $\epsilon_r = 48.522$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.4, 4.4, 4.4); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

(5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.9 mW/g

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.819 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 32.542 mW/g

**SAR(1 g) = 7.63 mW/g; SAR(10 g) = 2.13 mW/g**

Maximum value of SAR (measured) = 15.9 mW/g



0 dB = 15.3 mW/g = 24.14 dB mW/g

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Date: 2012/12/3

## Dipole 5.5GHz (Head)

Communication System: CW; Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.818$  mho/m;  $\epsilon_r = 34.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.85, 4.85, 4.85); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

(5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 17.3 mW/g

## Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.242 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 39.606 mW/g

**SAR(1 g) = 8.21 mW/g; SAR(10 g) = 2.28 mW/g**

Maximum value of SAR (measured) = 17.3 mW/g



0 dB = 17.3 mW/g = 24.76 dB mW/g

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Date: 2012/12/10

## Dipole 5.5GHz (Body)

Communication System: CW; Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.741$  mho/m;  $\epsilon_r = 47.906$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.88, 3.88, 3.88); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

(5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 16.5 mW/g

## Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.992 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 35.703 mW/g

**SAR(1 g) = 7.83 mW/g; SAR(10 g) = 2.13 mW/g**

Maximum value of SAR (measured) = 16.4 mW/g



0 dB = 16.4 mW/g = 24.30 dB mW/g

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Date: 2012/12/11

### Dipole 5.8GHz (Head)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.146 \text{ mho/m}$ ;  $\epsilon_r = 34.161$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.65, 4.65, 4.65); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

(5x7x1): Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.0 mW/g

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

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

Reference Value = 60.265 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 37.708 mW/g

**SAR(1 g) = 8.1 mW/g; SAR(10 g) = 2.2 mW/g**

Maximum value of SAR (measured) = 16.8 mW/g



0 dB = 16.8 mW/g = 24.51 dB mW/g

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Date: 2012/12/12

### Dipole 5.8GHz (Body)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.178$  mho/m;  $\epsilon_r = 47.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/4;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.1(838); SEMCAD X 14.6.5(6469)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

(5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.6 mW/g

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

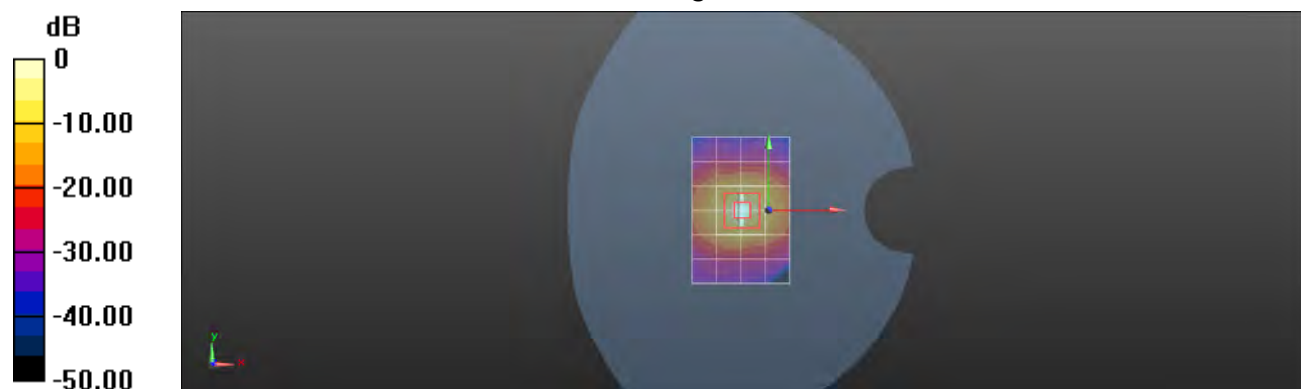
(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 56.261 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 34.911 mW/g

**SAR(1 g) = 7.31 mW/g; SAR(10 g) = 1.99 mW/g**

Maximum value of SAR (measured) = 15.6 mW/g



0 dB = 15.6 mW/g = 23.86 dB mW/g

**End of 1<sup>st</sup> part of report**

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