


MOTOROLA SOLUTIONS

TESTING CERT # 2518.01
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 6 of 6

Motorola Solutions Inc.
EME Test Laboratory
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Date of Report: 04/15/2016
Report Revision: B

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Date/s Tested: LTE - 08/14/2015-08/26/2015, 09/16/2015 - 09/21/2015; GSM – 07/09/2015-07/15/2015 & 07/20/2015-07/22/2015; WCDMA – 07/16/2015, 07/17/2015, 07/20/2015-07/22/2015 & 08/26/2015-08/28/2015; WLAN – 07/29/2015-08/06/2015, 09/17/2015-09/21/2015, 10/20/2015 & 11/07/2015-11/09/2015

Manufacturer: Motorola Solutions Inc.
DUT Description: Mission Critical Handheld Portable
Test TX mode(s): GSM/GPRS, WCDMA, WLAN, LTE & BT
Max. Power output: Refer to Part 1 Table 3
Nominal Power: Refer to Part 1, Table 3
Tx Frequency Bands: GSM: B2, B3, B5 & B8; WCDMA: B1, B2, B4, B5 & B8; WLAN: 2.4GHz / 5GHz; LTE: B3, B4, B5, B7, B8, B20, B26 & B28 & BT
Signaling type: TDMA, CDMA, LTE, DSSS, OFDM & FHSS
Model(s) Tested: LEX L10i
Model(s) Certified: LEX L10i
Serial Number(s): 171PRQ0394, 171PRJ0703 & 171PRL0854
Classification: General Population/Uncontrolled
FCC ID: AZ489FT7078; GSM (B2 & B5), WCDMA (B2, B4 & B5), LTE (B4, B5, B7, B26) WLAN & BT - This report contains results that are immaterial for FCC equipment approval, which are clearly identified.

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 2.0 W/kg averaged over 10grams of contiguous tissue.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Deanna Zakharia
EMS EME Lab Senior Resource Manager,
Laboratory Director
Approval Date: 4/18/2016

Certification Date: 11/30/2015

Certification No.: L1151175P

Appendix H

WLAN 2.4GHz and 5GHz

This appendix includes the following SAR Measurement System Validation, System Verification, Tissue results and DUT Test Methodology / DUT Test Data / System Performance Scans / DUT Scans for model LEX10L.

H.1 SAR Measurement System Validation and Verification

Probe and dipole calibration certificates are included in appendices B & C respectively.

H.1.1 System Validation

The SAR measurement system was validated according to procedures in KDB 865664. The validation status summary Table is below.

Table H.1

Dates	Probe Calibration Point		Probe SN	Measured Tissue Parameters		Validation			
				σ	ϵ_r	Sensitivity	Linearity	Isotropy	
CW									
0723/2015 09/29/2015	Body	2450	3612	2.01 2.02	52.5 52.1	Pass	Pass	Pass	
08/05/2015 09/29/2015	Head			1.82 1.84	39.4 38.3	Pass	Pass	Pass	
05/13/2015	Body	5200		5.54	47.8	Pass	Pass	Pass	
05/13/2015	Head			4.71	34.8	Pass	Pass	Pass	
05/14/2015	Body	5300		5.50	49.0	Pass	Pass	Pass	
05/14/2015	Head			4.63	35.9	Pass	Pass	Pass	
05/14/2015	Body	5500		5.76	48.6	Pass	Pass	Pass	
05/14/2015	Head			4.83	35.6	Pass	Pass	Pass	
05/12/2015 05/14/2015	Body	5600		5.85 5.92	43.8 48.4	Pass	Pass	Pass	
05/15/2015	Head			4.81	35.2	Pass	Pass	Pass	
05/15/2015	Body	5800		6.09	47.7	Pass	Pass	Pass	
05/15/2015	Head			5.02	35.0	Pass	Pass	Pass	
802.11									
05/26/2015	Body	2450		3612	1.91	52.7	Pass	Pass	Pass
05/26/2015	Head				1.71	36.4	Pass	Pass	Pass
05/18/2015	Body	5200			5.16	48.3	Pass	Pass	Pass
05/18/2015	Head				4.27	34.8	Pass	Pass	Pass
05/18/2015	Body	5300	5.29		48.2	Pass	Pass	Pass	
05/18/2015	Head		4.37		34.7	Pass	Pass	Pass	
05/19/2015	Body	5500	5.64		48.1	Pass	Pass	Pass	
05/19/2015	Head		4.66		34.9	Pass	Pass	Pass	
05/19/2015	Body	5600	5.78		47.9	Pass	Pass	Pass	
05/19/2015	Head		4.77		34.8	Pass	Pass	Pass	
05/19/2015	Body	5800	6.07		47.6	Pass	Pass	Pass	
05/19/2015	Head		4.98		34.5	Pass	Pass	Pass	

H.1.2 System Verification

System verification checks were conducted each day during the SAR assessment. The results are normalized to 1W. Appendix H.7 includes DASY plots for each day during the SAR assessment. The Table below summarizes the daily system check results used for the SAR assessment.

Table H.2

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
3612	FCC Body	SPEAG D2450V2 / 703	51.30 +/- 10%	5.12	51.20	09/17/2015
				5.23	52.30	09/18/2015
	IEEE/IEC Head		52.20 +/- 10%	5.74	57.40	09/17/2015
	FCC Body	SPEAG D5GHz (5200) V2 / 1022	73.30 +/- 10%	3.66	73.20	07/29/2015
				3.66	73.20	07/30/2015
				3.99	79.80	10/20/2015
				3.88	77.60	11/07/2015
	IEEE/IEC Head		78.80 +/- 10%	4.24	84.80	08/03/2015
				4.31	86.20	09/21/2015
				3.99	79.80	11/08/2015
				4.08	81.60	11/09/2015
	FCC Body	SPEAG D5GHz (5500) V2 / 1022	79.10 +/- 10%	4.24	84.80	07/30/2015
				4.13	82.60	07/31/2015
				4.30	86.00	10/20/2015
				4.18	83.60	11/07/2015
	IEEE/IEC Head		82.80 +/- 10%	4.06	81.20	08/04/2015
				3.80	76.00	11/08/2015
				4.22	84.40	11/09/2015
	FCC Body	SPEAG D5GHz (5800) V2 / 1022	75.70 +/- 10%	3.60	72.00	07/31/2015
				3.53	70.60	08/03/2015
				3.63	72.60	10/20/2015
				3.75	75.00	11/07/2015
	IEEE/IEC Head		79.20 +/- 10%	3.99	79.80	08/04/2015
				4.11	82.20	08/05/2015
				3.69	73.80	11/08/2015

H.1.3 Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements are measured daily and within 24 hours of SAR testing to verify that the tissue is within +/- 5% of target parameters for each tested channel. This measurement is done using the applicable equipment indicated in section 9.0. The table below summarizes the measured tissue parameters used for the SAR assessment.

Table H.3

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
2437	FCC Body	1.94 (1.84-2.03)	52.7 (47.4-58.0)	1.99	51.8	09/17/2015
				1.98	51.4	09/18/2015
	IEEE/IEC Head	1.79 (1.70-1.88)	39.2 (35.3-43.1)	1.82	40.8	09/17/2015
2450	FCC Body	1.95 (1.85-2.05)	52.7 (47.4-58.0)	2.00	51.8	09/17/2015
				2.00	51.3	09/18/2015
	IEEE/IEC Head	1.80 (1.71-1.89)	39.2 (35.3-43.1)	1.84	40.8	09/17/2015
5200	FCC Body	5.30 (4.77-5.83)	49.0 (44.1-53.9)	5.14	47.6	07/29/2015
				5.17	48.3	07/30/2015
				5.61	49.1	10/20/2015
				5.46	46.5	11/07/2015
	IEEE/IEC Head	4.66 (4.19-5.13)	36.0 (32.4-39.6)	4.50	36.1	08/03/2015
				4.57	35.3	09/21/2015
				4.38	33.6	11/08/2015
				4.54	35.1	11/09/2015
5280	FCC Body	5.39 (4.85-5.93)	48.9 (44.0-53.8)	5.24	47.4	07/29/2015
				5.28	48.1	07/30/2015
				5.74	49.0	10/20/2015
				5.56	46.4	11/07/2015
	IEEE/IEC Head	4.74 (4.27-5.21)	35.9 (32.3-39.5)	4.57	35.9	08/03/2015
				4.65	35.1	09/21/2015
				4.45	33.5	11/08/2015
				4.63	35.0	11/09/2015
5500	FCC Body	5.65 (5.08-6.21)	48.6 (43.7-53.5)	5.56	47.8	07/30/2015
				5.73	47.6	07/31/2015
				6.01	48.4	10/20/2015
				5.80	46.0	11/07/2015
	IEEE/IEC Head	4.97 (4.47-5.46)	35.7 (32.1-39.2)	4.68	35.3	08/04/2015
				4.62	35.0	08/06/2015
				4.59	33.2	11/08/2015
				4.85	34.6	11/09/2015
5560	FCC Body	5.72 (5.15-6.29)	48.5 (43.7-53.4)	5.64	47.7	07/30/2015
				5.82	47.5	07/31/2015
				6.13	48.2	10/20/2015
				5.90	45.9	11/07/2015
	IEEE/IEC Head	5.03 (4.53-5.53)	35.6 (32.0-39.1)	4.79	35.2	08/04/2015
				4.69	34.9	08/06/2015
				4.67	33.1	11/08/2015
				4.93	34.5	11/09/2015

Table H.3 Cont.

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
5800	FCC Body	6.00 (5.40-6.60)	48.2 (43.4-53.0)	6.16	47.1	07/31/2015
				6.08	47.2	08/03/2015
				6.49	47.3	10/20/2015
				6.21	45.5	11/07/2015
	IEEE/IEC Head	5.27 (4.74-5.80)	35.3 (31.8-38.8)	5.06	34.9	08/04/2015
				5.21	35.3	08/05/2015
				4.89	32.6	11/08/2015
5825	FCC Body	6.03 (5.43-6.63)	48.4 (43.5-53.2)	6.20	47.0	07/31/2015
				6.11	47.2	08/03/2015
				6.55	47.3	10/20/2015
				6.25	45.4	11/07/2015
	IEEE/IEC Head	5.30 (4.77-5.83)	35.3 (31.7-38.8)	5.08	34.8	08/04/2015
				5.24	35.3	08/05/2015
				4.93	32.6	11/08/2015

H.2 DUT Test Methodology

H.2.1 Measurements

The DUT was configured using WLAN 802.11 per KDB 941225.

H.2.2 DUT Configuration(s)

The DUT is a portable device operational as described in section 6.0. This appendix is specific to WLAN 2.4GHz and 5GHz testing at the body, hotspot, and head using the offered accessories. The device is placed in the test positions as described below. Appendix D illustrates the DUT and offered accessories.

H.2.3 DUT Positioning Procedures

The positioning of the device for each body location is described below and illustrated in Appendix D.

Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessory.

Hot Spot

The DUT was positioned with its front, back, and edges of the device with transmitting antennas within 2.5cm from the edge separated 1.0 cm from the phantom. The DUT was also tested along the edge containing the WLAN / BT antenna if the transmitting antenna was not within 2.5cm from that edge.

Head

The DUT was placed against the right and left heads of the SAM phantom in the cheek touch and tilt positions.

H.3 Assessments at WLAN (802.11b/g/n)

H.3.1 Output Power Data

These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227.

Table H.4
Specified maximum conducted power (dBm)

802.11	b	g	n
Ch. BW (MHz)	20	20	20
2.4GHz	13.5	13.5	13.5

Table H.5
Measured conducted power

802.11	Ch.	Freq. (MHz)	dBm	mW
b	1	2412	12.9	19.5
	6	2437	13.5	22.4
	11	2462	12.7	18.6
g	1	2412	12.8	19.1
	6	2437	13.4	21.9
	11	2462	12.7	18.6
n	1	2412	11.7	14.8
	6	2437	12.9	19.5
	11	2462	11.8	15.1

H.3.2 Assessments at the Body

Table below presents the data of the body assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.6

Assessments at the Body (802.11b)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at body												
Ant 3	PMNN4472B Standard	Body	HKLN4618A back	None	2437	22.4	-0.86	0.074	0.041	0.09	0.05	ErC-Ab-150917-08
Ant 3	PMNN4472B Standard	Body	HKLN4618A front	None	2437	22.4	0.09	0.048	0.028	0.05	0.03	ErC-Ab-150917-09
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	HKLN4618A back	None	2437	22.4	1.91	0.005	0.003	0.01	0.00	ErC-Ab-150917-10

H.3.3 Assessment for hot spot mode

Table below presents the data of the hot spot assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.7

Assessments at the Body (802.11b)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at body												
Ant 3	PMNN4472B Standard	Body	Back of DUT @ 1cm	None	2437	22.4	0.03	0.057	0.030	0.06	0.03	ErC-Ab-150918-02
Ant 3	PMNN4472B Standard	Body	Front of DUT @ 1cm	None	2437	22.4	0.39	0.046	0.023	0.05	0.02	ErC-Ab-150918-03
Ant 3	PMNN4472B Standard	Body	Right side of DUT @ 1cm	None	2437	22.4	0.11	0.111	0.053	0.11	0.05	ErC-Ab-150918-04
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	Right side of DUT @ 1cm	None	2437	22.4	-0.41	0.094	0.044	0.10	0.05	ErC-Ab-150918-05

H.3.4 Assessments at the Head

Table below presents the data of the head assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.8

Assessments at the Head (802.11b)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at right ear												
Ant 3	PMNN4472B Standard	REAR	Touch	None	2437	22.4	0.15	0.111	0.053	0.11	0.05	ErC-Rear-150917-02
Ant 3	PMNN4472B Standard	REAR	Tilt	None	2437	22.4	0.75	0.020	0.010	0.02	0.01	ErC-Rear-150917-03
Assessment at left ear												
Ant 3	PMNN4472B Standard	LEAR	Touch	None	2437	22.4	-0.21	0.193	0.091	0.20	0.10	ErC-Lear-150917-04
Ant 3	PMNN4472B Standard	LEAR	Tilt	None	2437	22.4	-0.01	0.037	0.019	0.04	0.02	ErC-Lear-150917-05
Assessment at the head – extended battery												
Ant 3	PMNN4475B Extended	LEAR	Touch	None	2437	22.4	-0.70	0.196	0.093	0.23	0.11	ErC-Lear-150917-06

H.4 Assessments at WLAN (802.11a/n)

H.4.1 Output Power Data

These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227.

Table H.9
Specified maximum conducted power (dBm)

802.11	a	n	
Ch. BW (MHz)	20	20	40
U-NII-1 (5.15-5.25GHz)	15.5	14.5	14.5
U-NII-2A (5.25-5.35GHz)	15.5	14.5	14.5
U-NII-2C (5.47-5.725GHz) (5.47-5.65GHz)	15.5	14.5	14.5
U-NII-3 (5.725-5.85GHz) (5.65-5.85GHz)	15.5	14.5	14.5
5.8GHz Same as U-NII-3	15.5	14.5	14.5

Table H.10
Measured conducted power

Band	802.11	Ch. BW	Ch.	Freq. (MHz)	dBm	mW
U-NII-1 (5.15-5.25GHz)	a	20	36	5180	14.0	25.1
			40	5200	15.0	31.6
			44	5220	15.0	31.6
			48	5240	15.0	31.6
	n	20	36	5180	14.1	25.7
			40	5200	14.5	28.2
			44	5220	14.5	28.2
			48	5240	13.0	20.0
U-NII-2A (5.25-5.35GHz)	a	20	52	5260	15.1	32.4
			56	5280	15.5	35.5
			60	5300	14.1	25.7
			64	5320	14.8	30.2
	n	20	52	5260	13.5	22.4
			56	5280	12.8	19.1
			60	5300	13.0	20.0
			64	5320	13.7	23.4
U-NII-2C (5.47-5.725GHz) (5.47-5.65GHz)	a	20	100	5500	13.5	22.4
			112	5560	15.5	35.5
			116	5580	14.6	28.8
			128	5640	14.8	30.2
	n	20	100	5500	14.3	26.9
			112	5560	14.0	25.1
			116	5580	13.1	20.4
			128	5640	12.9	19.5
U-NII-3 (5.725-5.85GHz) (5.65-5.85GHz)	a	20	132	5660	13.8	24.0
			149	5745	13.8	24.0
			165	5825	14.0	25.1
	n	20	132	5660	12.5	17.8
			149	5745	12.7	18.6
			165	5825	12.5	17.8
5.8GHz Same as U-NII-3	a	20	132	5660	13.8	24.0
			149	5745	13.8	24.0
			165	5825	14.0	25.1
	n	20	132	5660	12.5	17.8
			149	5745	12.7	18.6
			165	5825	12.5	17.8

H.4.2 Assessments at the Body

Table below presents the data of the body assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.11

Assessments at the Body (802.11a)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at body - U-NII-2A												
Ant 3	PMNN4472B Standard	Body	HKLN4618A back	None	5280	35.5	-0.49	0.015	0.006	0.02	0.01	ErC-Ab-150729-02
Ant 3	PMNN4472B Standard	Body	HKLN4618A front	None	5280	35.5	-0.51	0.005	0.002	0.01	0.00	ErC-Ab-150729-03
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	HKLN4618A back	None	5280	35.5	1.61	0.011	0.004	0.01	0.00	ErC-Ab-150730-03
Assessment at body - U-NII-2C												
Ant 3	PMNN4472B Standard	Body	HKLN4618A back	None	5560	35.5	-0.63	0.016	0.006	0.02	0.01	ErC-Ab-150730-08
Ant 3	PMNN4472B Standard	Body	HKLN4618A front	None	5560	35.5	-0.49	0.005	0.001	0.01	0.00	ErC-Ab-150730-09
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	HKLN4618A back	None	5560	35.5	0.26	0.001	0.000	0.00	0.00	ErC-Ab-150730-10
Assessment at body - U-NII-3												
Ant 3	PMNN4472B Standard	Body	HKLN4618A back	None	5825	25.1	0.34	0.018	0.007	0.03	0.01	ErC-AB-150731-07
Ant 3	PMNN4472B Standard	Body	HKLN4618A front	None	5825	25.1	0.98	0.007	0.002	0.01	0.00	ErC-AB-150731-08
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	HKLN4618A back	None	5825	25.1	0.38	0.011	0.004	0.02	0.01	ErC-AB-150731-09

H.4.3 Assessment for hot spot mode

Table below presents the data of the hot spot assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.12

Assessments at the Body (802.11a)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at body - U-NII-2A												
Ant 3	PMNN4472B Standard	Body	Back of DUT @ 1cm	None	5280	35.5	0.01	0.080	0.029	0.08	0.03	ErC-Ab-150730-04
Ant 3	PMNN4472B Standard	Body	Front of DUT @ 1cm	None	5280	35.5	-0.48	0.033	0.011	0.04	0.01	ErC-Ab-150730-05
Ant 3	PMNN4472B Standard	Body	Right side of DUT @ 1cm	None	5280	32.6	0.02	0.470	0.169	0.53	0.19	ErC-Ab-151107-05
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	Right side of DUT @ 1cm	None	5280	32.6	-0.01	0.363	0.121	0.41	0.14	ErC-Ab-151020-03
Assessment at body - U-NII-2C												
Ant 3	PMNN4472B Standard	Body	Back of DUT @ 1cm	None	5560	35.5	-0.05	0.130	0.048	0.14	0.05	ErC-AB-150731-03
Ant 3	PMNN4472B Standard	Body	Front of DUT @ 1cm	None	5560	35.5	-0.12	0.053	0.019	0.06	0.02	ErC-AB-150731-04
Ant 3	PMNN4472B Standard	Body	Right side of DUT @ 1cm	None	5560	32.0	-0.10	0.369	0.121	0.44	0.14	ErC-AB-151020-04
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	Right side of DUT @ 1cm	None	5560	32.0	0.07	0.497	0.169	0.57	0.19	ErC-AB-151107-06
Assessment at body - U-NII-3												
Ant 3	PMNN4472B Standard	Body	Back of DUT @ 1cm	None	5825	25.1	-0.02	0.145	0.055	0.21	0.08	ErC-AB-150731-10
Ant 3	PMNN4472B Standard	Body	Front of DUT @ 1cm	None	5825	25.1	0.47	0.027	0.010	0.04	0.01	ErC-AB-150731-11
Ant 3	PMNN4472B Standard	Body	Right side of DUT @ 1cm	None	5825	25.6	-0.33	0.335	0.116	0.52	0.18	ErC-Ab-151107-08
Assessment at the body – extended battery												
Ant 3	PMNN4475B Extended	Body	Right side of DUT @ 1cm	None	5825	25.6	-0.05	0.304	0.100	0.44	0.15	ErC-Ab-151020-06

H.4.4 Assessments at the Head

Table below presents the data of the head assessment. SAR plot(s) are included in section H.8 for the bolded data.

Table H.13

Assessments at the Head (802.11a)												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (mW)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at right ear - U-NII-2A												
Ant 3	PMNN4472B Standard	REAR	Touch	None	5280	32.6	0.20	0.285	0.085	0.32	0.10	ErC-Rear-151108-04
Ant 3	PMNN4472B Standard	REAR	Tilt	None	5280	35.5	-1.09	0.018	0.004	0.02	0.01	ErC-Rear-150803-06
Assessment at left ear - U-NII-2A												
Ant 3	PMNN4472B Standard	LEAR	Touch	None	5280	32.6	0.05	0.276	0.079	0.31	0.09	ErC-Lear-151108-07
Ant 3	PMNN4472B Standard	LEAR	Tilt	None	5280	35.5	0.06	0.027	0.007	0.03	0.01	ErC-Lear-150803-08
Assessment at the head – extended battery												
Ant 3	PMNN4475B Extended	REAR	Touch	None	5280	32.6	0.90	0.305	0.090	0.35	0.10	ErC-Rear-151109-04
Assessment at right ear - U-NII-2C												
Ant 3	PMNN4472B Standard	REAR	Touch	None	5560	32.0	0.10	0.293	0.083	0.34	0.10	ErC-Rear-151108-05
Ant 3	PMNN4472B Standard	REAR	Tilt	None	5560	35.5	-1.36	0.009	0.003	0.01	0.00	ErC-Rear-150804-04
Assessment at left ear - U-NII-2C												
Ant 3	PMNN4472B Standard	LEAR	Touch	None	5560	32.0	0.07	0.274	0.081	0.32	0.09	ErC-Lear-151108-08
Ant 3	PMNN4472B Standard	LEAR	Tilt	None	5560	35.5	-0.24	0.029	0.011	0.03	0.01	ErC-Lear-150806-04
Assessment at the head – extended battery												
Ant 3	PMNN4475B Extended	REAR	Touch	None	5560	32.0	-0.05	0.308	0.094	0.36	0.11	ErC-Rear-151109-05
Assessment at right ear - U-NII-3												
Ant 3	PMNN4472B Standard	REAR	Touch	None	5825	25.6	0.32	0.282	0.080	0.41	0.12	ErC-Rear-151108-06
Ant 3	PMNN4472B Standard	REAR	Tilt	None	5825	25.1	0.15	0.013	0.005	0.02	0.01	ErC-Rear-150804-10
Assessment at left ear - U-NII-3												
Ant 3	PMNN4472B Standard	LEAR	Touch	None	5825	25.6	0.10	0.232	0.080	0.33	0.12	ErC-Lear-151108-09
Ant 3	PMNN4472B Standard	LEAR	Tilt	None	5825	25.1	0.39	0.037	0.011	0.05	0.02	ErC-Lear-150804-12
Assessment at the head – extended battery												
Ant 3	PMNN4475B Extended	REAR	Touch	None	5825	25.6	1.42	0.215	0.064	0.31	0.09	ErC-Rear-151108-10

H.5 Results Summary

Based on the test guidelines from section 4.0 and satisfying frequencies within FCC bands and Industry Canada Frequency bands, the highest Operational Maximum Calculated 1-gram and 10-gram average SAR values found for this filing:

Table H.14

Designator	Frequency band (MHz)	Max Calc at Body (W/kg)		Max Calc at Hot Spot (W/kg)		Max Calc at Head (W/kg)	
		1g-SAR	10g-SAR	1g-SAR	10g-SAR	1g-SAR	10g-SAR
DTS	2.4GHz	0.09	0.05	0.11	0.05	0.23	0.11
	5GHz	0.03	0.01	0.57	0.19	0.41	0.12

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing.

H.6 Variability Assessment

Per the guidelines in KDB 865664 SAR variability assessment is not required because SAR results are below 0.8W/kg (General population).

H.7 System Verification Data

Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/17/2015 11:12:09 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-2450B-150917-07
Dipole Model#: D2450V2
Phantom#: Triple 1168-1
Tissue Temp: 20.6 (C)
Serial#: 703
Test Freq: 2450 (MHz)
Start Power: 100 (mW)
Rotation (1D): 038 dB
Adjusted SAR (1W): 51.20 mW/g (1g)

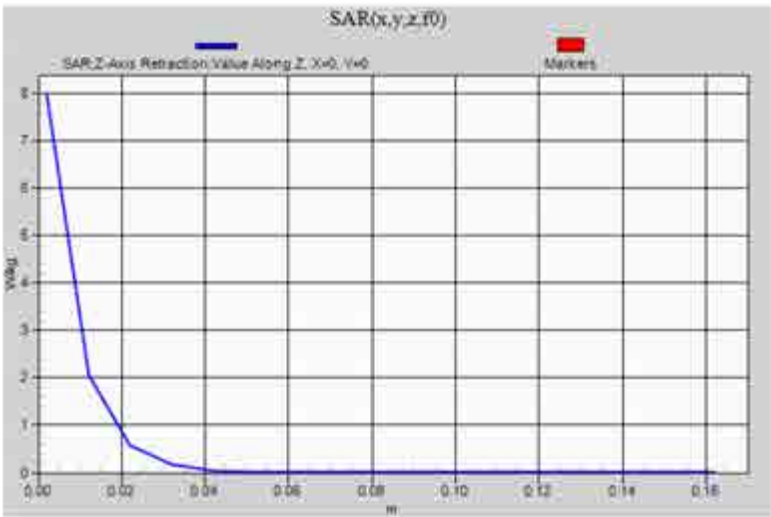
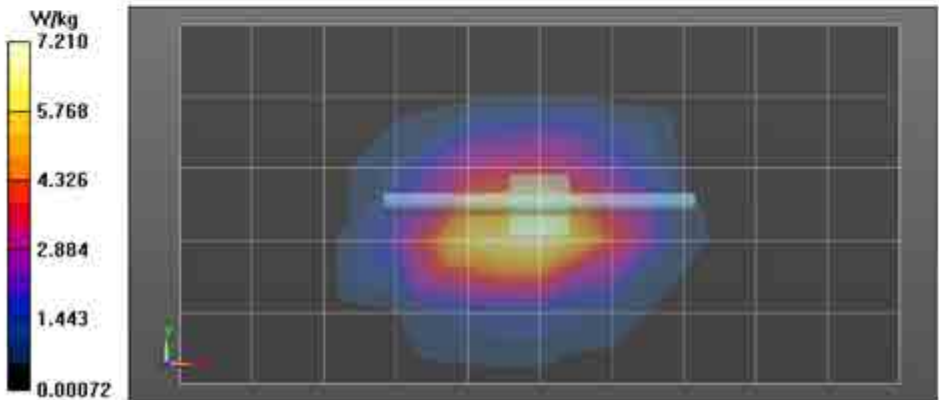
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ S/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612. Frequency: 2450 MHz. ConvF(6.4, 6.4, 6.4). Calibrated: 4/28/2015
Electronics: DAE4 Sn850. Calibrated: 8/24/2015

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (11x6x1): Measurement grid:
dx=12mm, dy=12mm
Maximum value of SAR (measured) = 7.21 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 63.92 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 10.8 W/kg
SAR(1 g) = 5.12 W/kg; SAR(10 g) = 2.38 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 7.94 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 8.00 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/18/2015 4:38:18 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-2450B-150918-01
Dipole Model#: D2450V2
Phantom#: Triple 1168-1
Tissue Temp: 21.5 (C)
Serial#: 703
Test Freq: 2450 (MHz)
Start Power: 100 (mW)
Rotation (1D): .032 dB
Adjusted SAR (1W): 52.30 mW/g (1g)

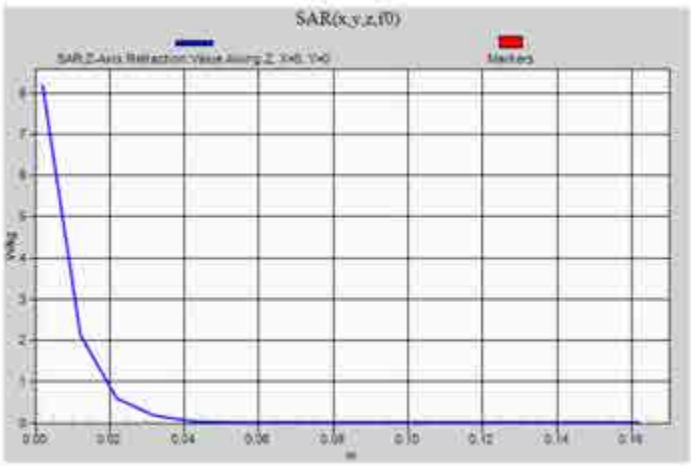
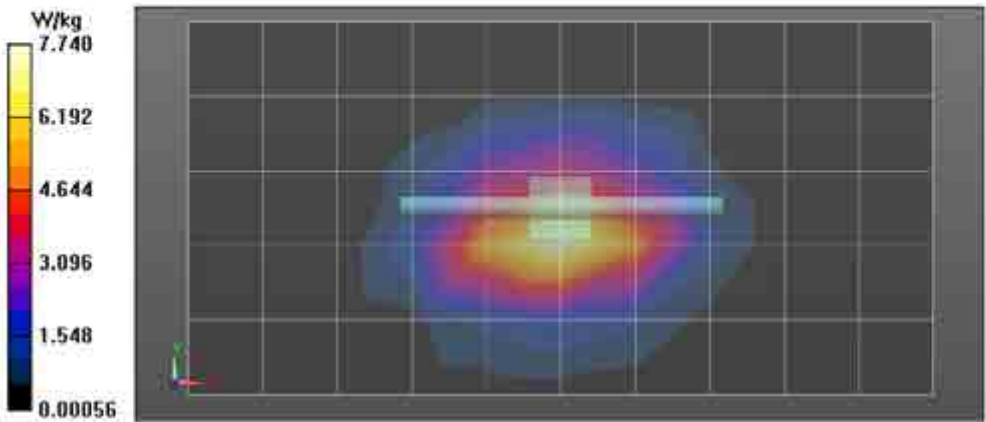
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 2 \text{ S/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 2450 MHz, ConvF(6.4, 6.4, 6.4); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (11x6x1): Measurement grid:
 $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 7.74 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 64.68 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 11.0 W/kg
SAR(1 g) = 5.23 W/kg; SAR(10 g) = 2.44 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 8.12 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$
Maximum value of SAR (measured) = 8.18 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/29/2015 9:30:25 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5200B-150729-01
Dipole Model#: D5GHzV2
Phantom#: Triple 1168-1
Tissue Temp: 21.9 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.13 dB
Adjusted SAR (1W): 73.20 mW/g (1g)

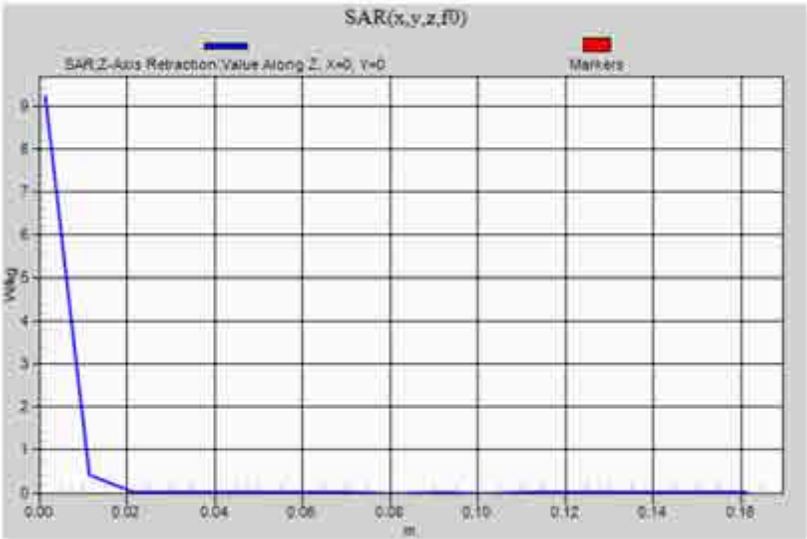
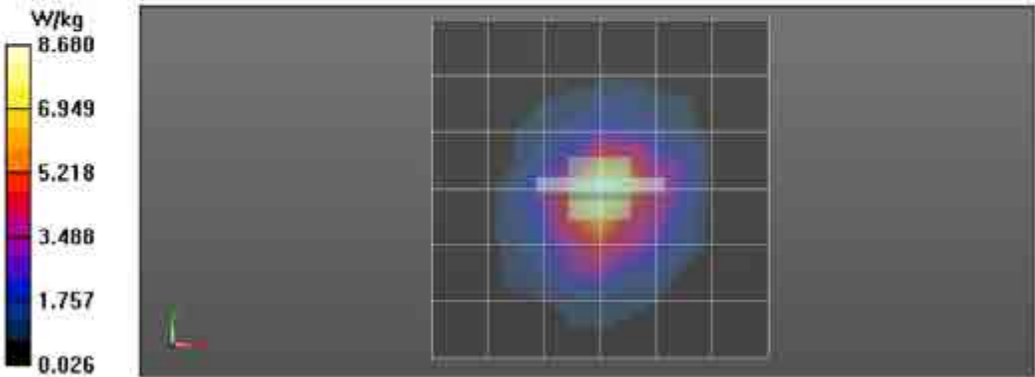
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 5200 MHz; $\sigma = 5.14 \text{ S/m}$; $\epsilon_r = 47.6$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 5200 MHz, ConvF(4.37, 4.37, 4.37); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 8.68 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 46.54 V/m; Power Drift = +0.05 dB
Peak SAR (extrapolated) = 16.3 W/kg
SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.02 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 9.24 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/30/2015 5:41:38 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5200B-150730-01
Dipole Model#: D5GHzV2
Phantom#: Triple 116S-1
Tissue Temp: 22.1 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.051 dB
Adjusted SAR (1W): 73.20 mW/g (1g)

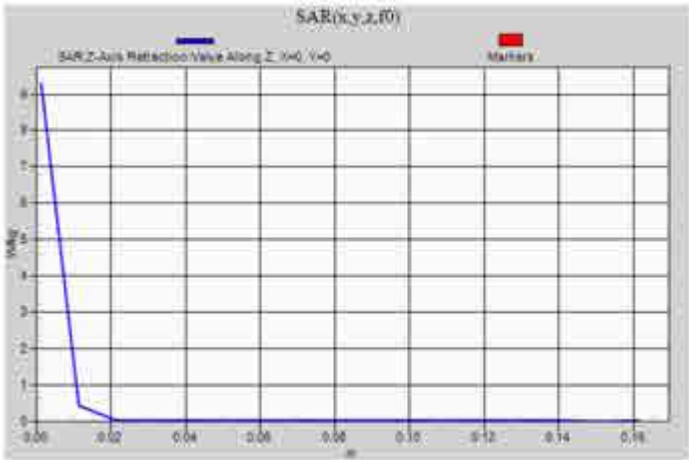
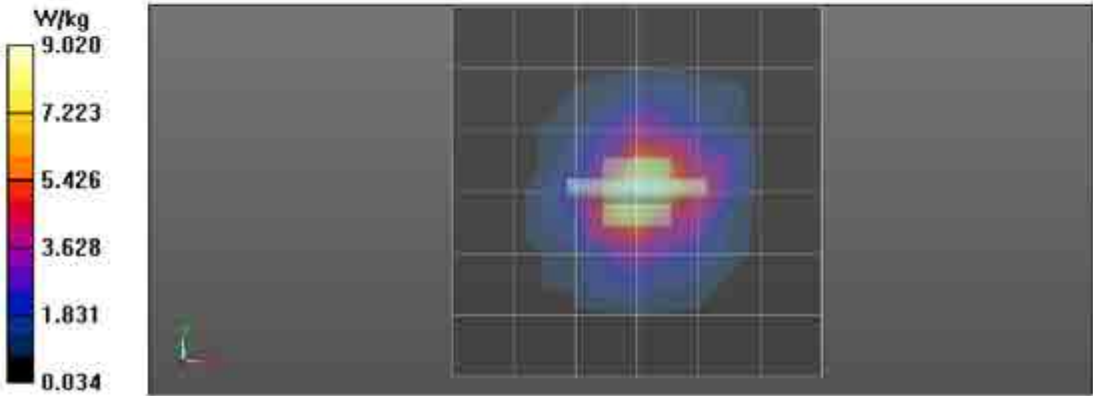
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5200$ MHz; $\sigma = 5.17$ S/m; $\epsilon_r = 48.3$; $\rho = 1000$ kg/m³
Probe: EX3DV4 • SN3612, Frequency: 5200 MHz, ConvF(4.37, 4.37, 4.37); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.02 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 46.38 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 3.66 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.16 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 9.29 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/30/2015 6:43:51 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500B-150730-02
Dipole Model#: D5GHzV2
Phantom#: Triple 1168-1
Tissue Temp: 22.1 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.073 dB
Adjusted SAR (1W): 84.80 mW/g (1g)

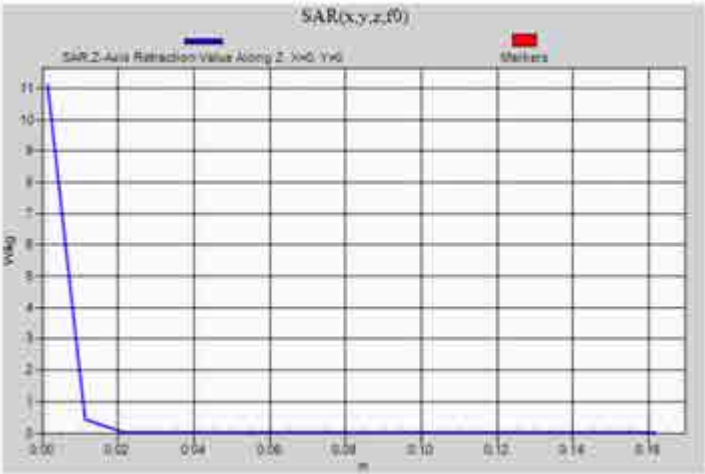
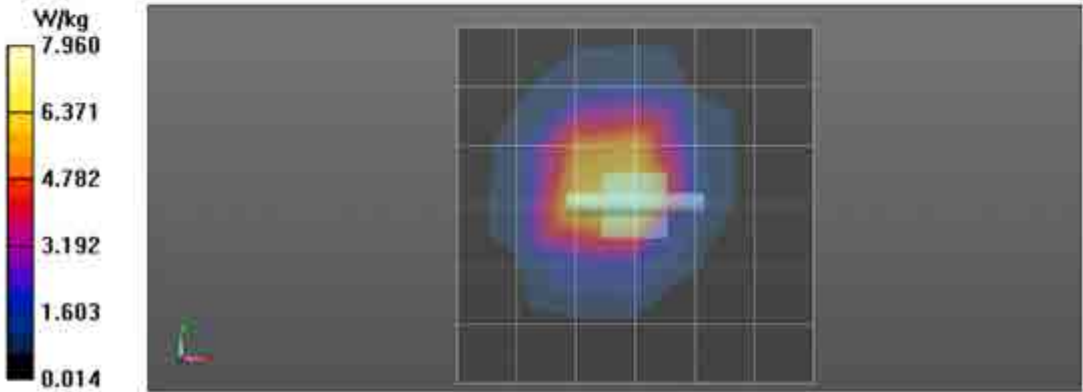
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5500$ MHz; $\sigma = 5.56$ S/m; $\epsilon_r = 47.8$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5500 MHz, ConvF(3.78, 3.78, 3.78); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 7.96 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 49.68 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 4.24 W/kg; SAR(10 g) = 1.17 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.7 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 11.1 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/31/2015 5:30:44 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500B-150731-01
Dipole Model#: D5GHzV2
Phantom#: Triple 1168-1
Tissue Temp: 22.1 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.057 dB
Adjusted SAR (1W): 82.60 mW/g (1g)

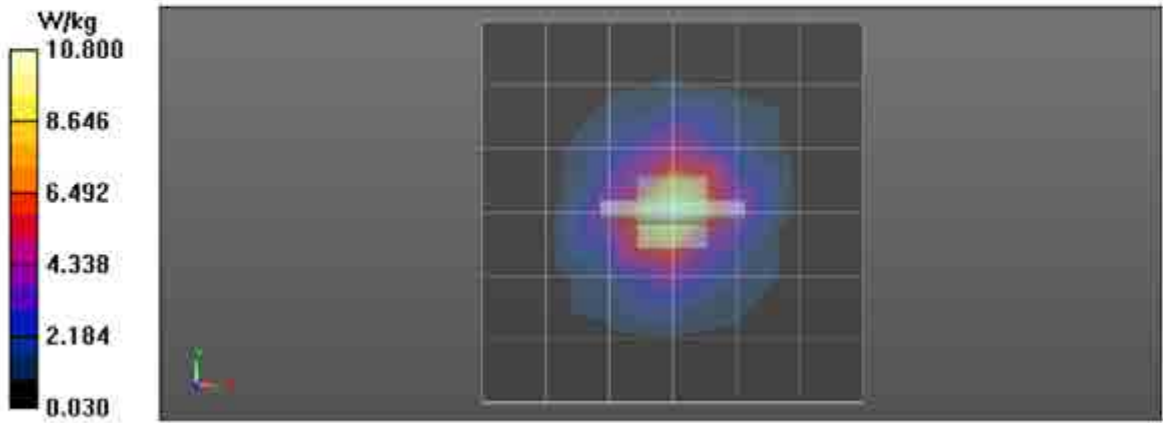
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5500$ MHz; $\sigma = 5.73$ S/m; $\epsilon_r = 47.6$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, , Frequency: 5500 MHz, ConvF(3.78, 3.78, 3.78); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 10.8 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 47.96 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.14 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.5 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/31/2015 6:36:00 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800B-150731-02
Dipole Model#: D5GHzV2
Phantom#: Triple 1168-1
Tissue Temp: 22.1 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.074 dB
Adjusted SAR (1W): 72.00 mW/g (1g)

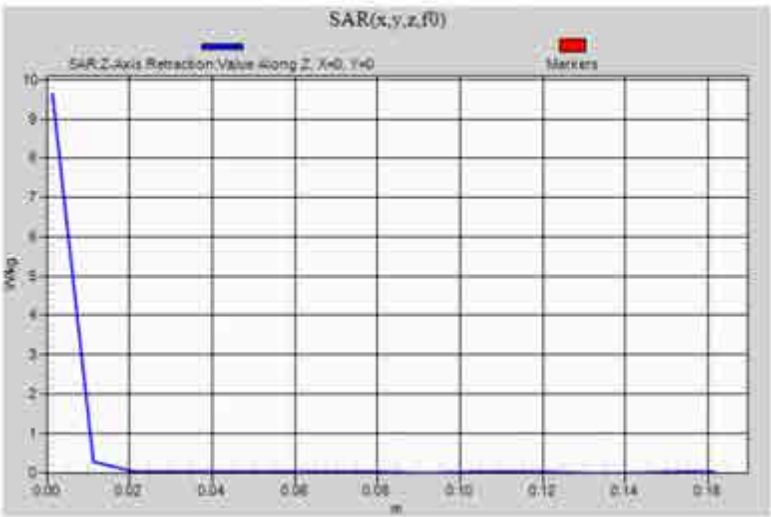
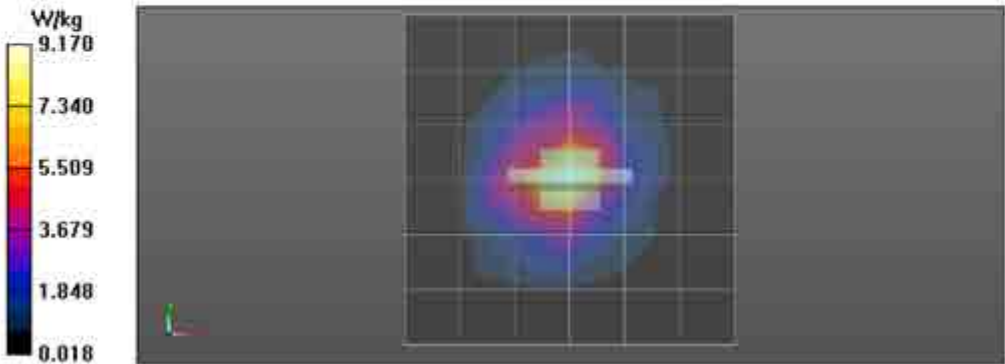
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5800$ MHz; $\sigma = 6.16$ S/m; $\epsilon_r = 47.1$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, . Frequency: 5800 MHz, ConvF(3.95, 3.95, 3.95); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.17 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 44.47 V/m. Power Drift = -0.05 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 3.6 W/kg; SAR(10 g) = 0.995 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.23 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 9.63 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/3/2015 5:23:53 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800B-150803-01
Dipole Model# D5GHzV2
Phantom# Triple 1168-1
Tissue Temp: 21.9 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.06 dB
Adjusted SAR (1W): 70.60 mW/g (1g)

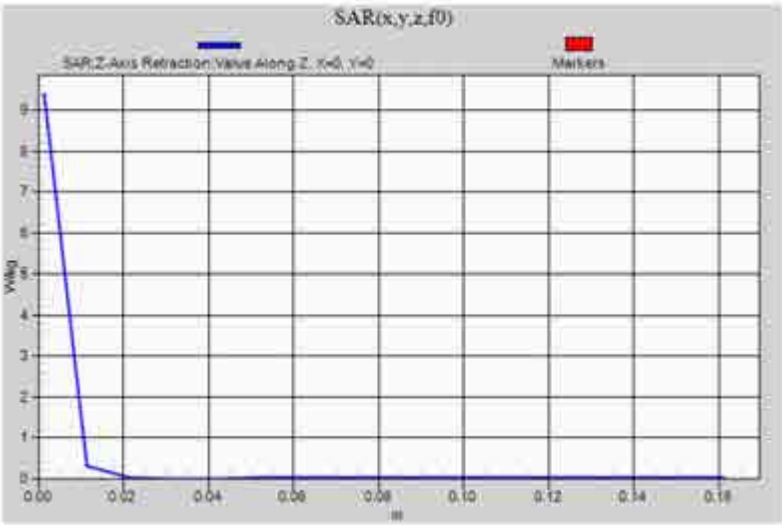
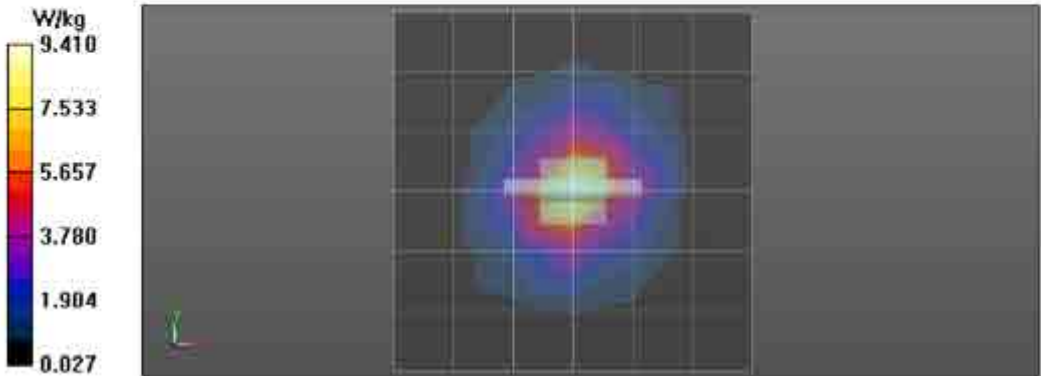
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 6.08 \text{ S/m}$; $\epsilon_r = 47.2$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612. . Frequency: 5800 MHz, ConvF(3.95, 3.95, 3.95); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.41 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 44.38 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 3.53 W/kg; SAR(10 g) = 0.984 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.11 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Solutions, Inc. EME Laboratory

Date/Time: 9/17/2015 6:42:22 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-2450H-150917-01
 Dipole Model#: D2450V2
 Phantom#: SAMTP1208
 Tissue Temp: 21.6 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)
 Rotation (1D): .027 dB
 Adjusted SAR (1W): 57.40 mW/kg (1g)

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz, $\sigma = 1.84$ S/m, $\epsilon_f = 40.8$, $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3612, Frequency: 2450 MHz, ConvF(6.26, 6.26, 6.26); Calibrated: 4/28/2015
 Electronics: DAE4 Sn850, Calibrated: 8/24/2015

2-3 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (6x11x1): Measurement grid:

dx=12mm, dy=12mm

Maximum value of SAR (measured) = 5.63 W/kg

2-3 GHz-Rev.2/System Performance Check/0-Degree Cube (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 70.42 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 12.0 W/kg

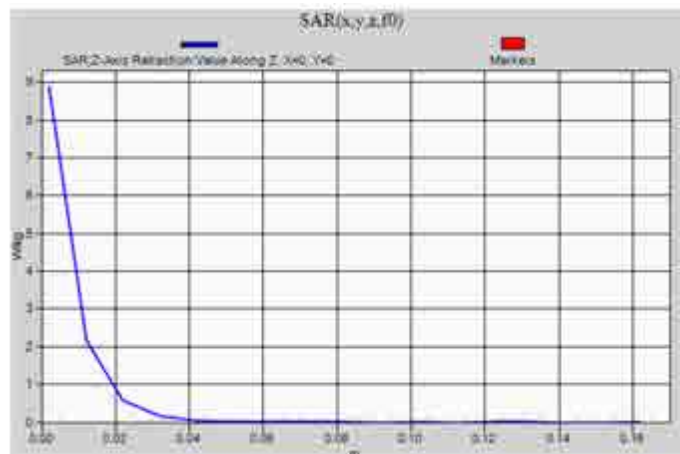
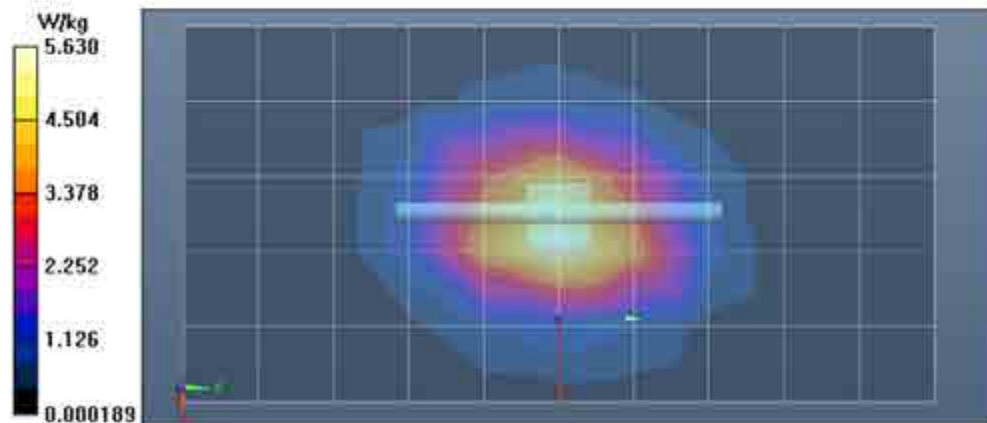
SAR(1 g) = 5.74 W/kg; SAR(10 g) = 2.66 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.85 W/kg

2-3 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:

dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 8.85 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/3/2015 8:52:11 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5200H-150803-04
Dipole Model#: D5GHzV2
Phantom#: SAMTP1208
Tissue Temp: 21.9 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.043 dB
Adjusted SAR (1W): 84.80 mW/g (1g)

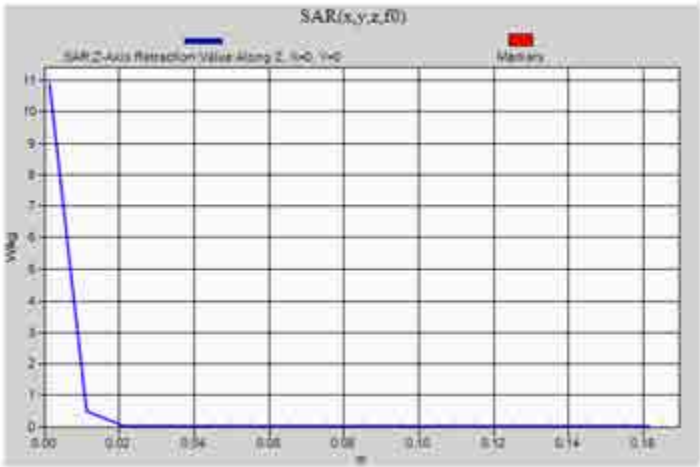
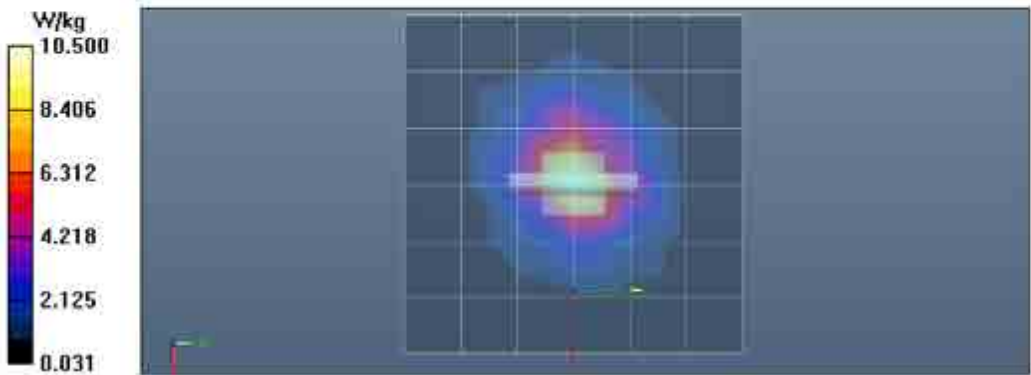
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5200$ MHz; $\sigma = 4.5$ S/m; $\epsilon_r = 36.1$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5200 MHz, ConvF(4.66, 4.66, 4.66); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 10.5 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement
grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 53.09 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 18.6 W/kg
SAR(1 g) = 4.24 W/kg; SAR(10 g) = 1.2 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.4 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.9 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/21/2015 11:15:03 AM

Robot#: DASY5-FL-2 | Run#: EtC-SYSP-5200H-150921-12
Dipole Model#: D5GHzV2
Phantom#: SAMTP1208
Tissue Temp: 22.5 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.078 dB
Adjusted SAR (1W): 86.20 mW/g (1g)

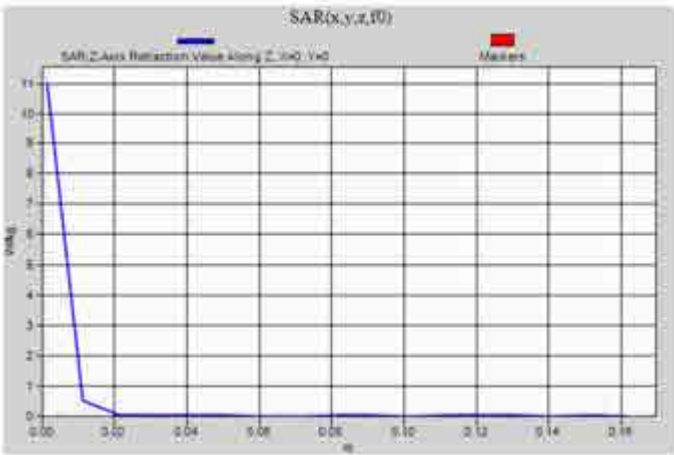
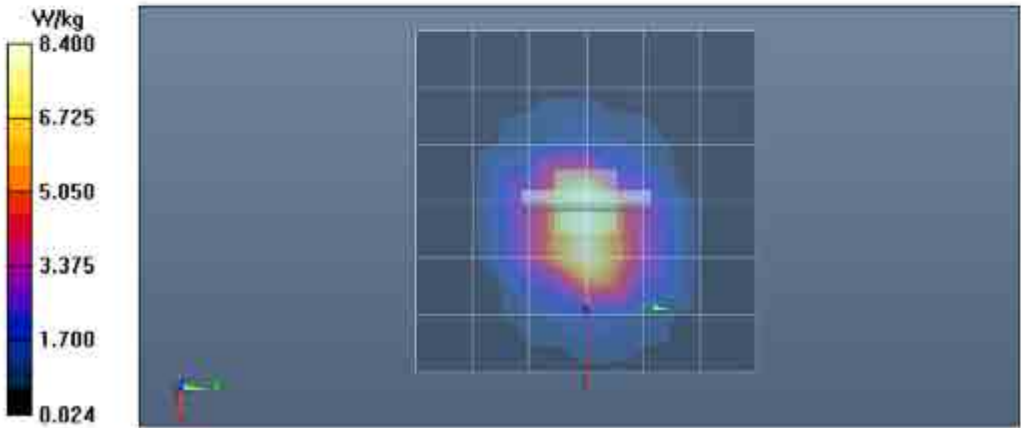
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.57 \text{ S/m}$; $\epsilon_r = 35.3$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612. . Frequency: 5200 MHz. ConvF(4.66, 4.66, 4.66): Calibrated: 4/28/2015
Electronics: DAE4 Sn850. Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 8.40 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 53.13 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 4.31 W/kg; SAR(10 g) = 1.21 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.8 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 11.0 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/4/2015 4:44:59 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500H-150804-01
Dipole Model#: D5GHzV2
Phantom#: SAMTP1208
Tissue Temp: 21.7 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.065 dB
Adjusted SAR (1W): 81.20 mW/g (1g)

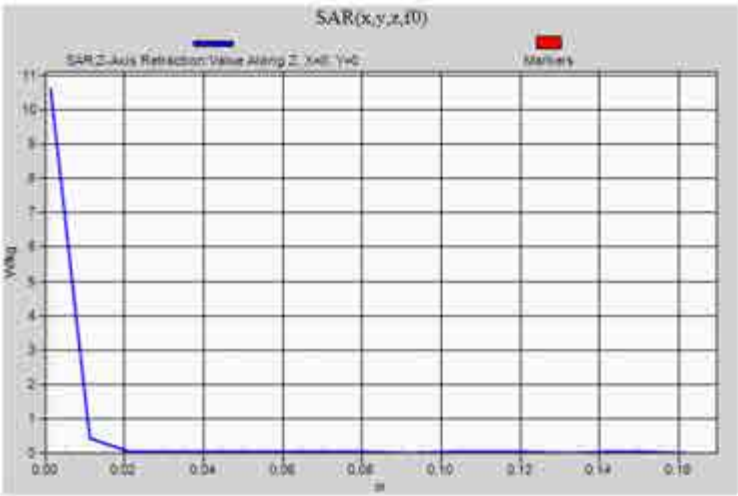
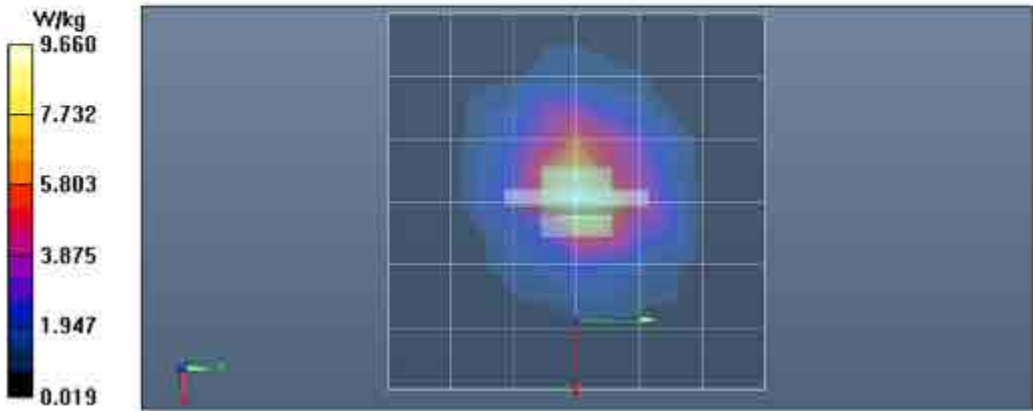
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5500$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 35.3$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5500 MHz, ConvF(4.45, 4.45, 4.45); Calibrated: 4/28/2015
Electronics: DAE3 Sn363; Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.66 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 52.34 V/m; Power Drift = +0.01 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 4.06 W/kg; SAR(10 g) = 1.13 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.2 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.6 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/4/2015 5:37:05 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800H-150804-02
Dipole Model#: D5GHzV2
Phantom#: SAMTP1208
Tissue Temp: 21.7 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.056 dB
Adjusted SAR (1W): 79.80 mW/g (1g)

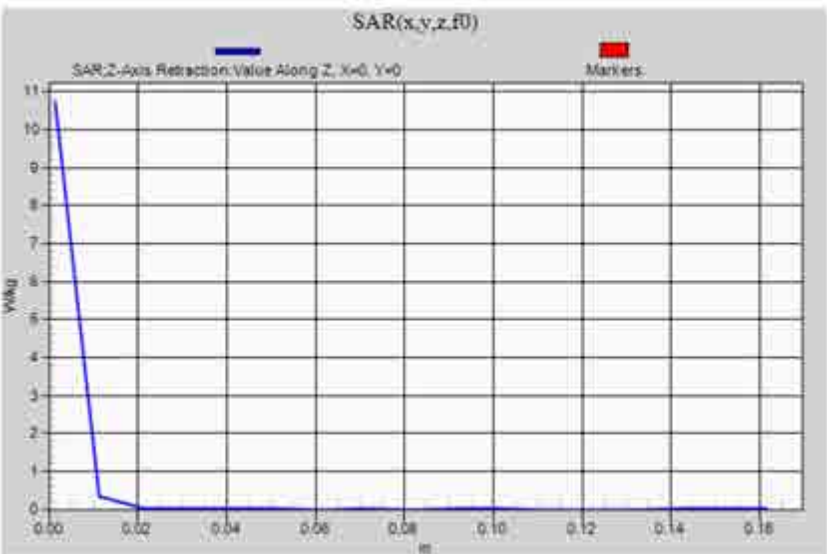
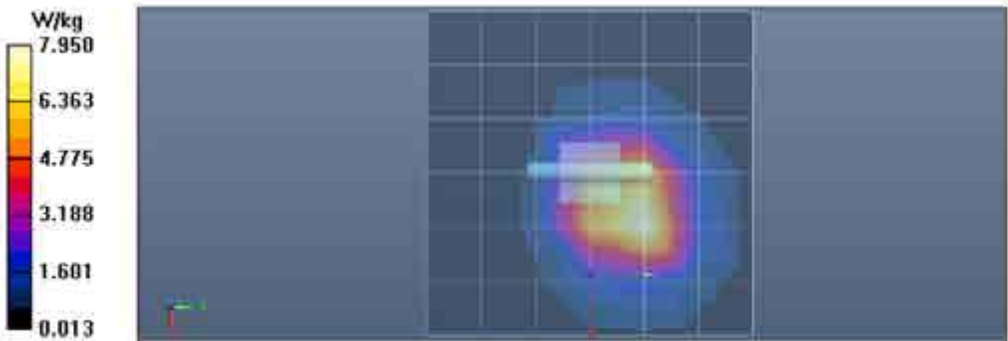
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.06 \text{ S/m}$; $\epsilon_r = 34.9$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 5800 MHz, ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
 $dx=9\text{mm}$, $dy=9\text{mm}$
Maximum value of SAR (measured) = 7.95 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement
grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
Reference Value = 50.70 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 18.8 W/kg
SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.12 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.5 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
 $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$
Maximum value of SAR (measured) = 10.7 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 8/5/2015 4:35:32 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800H-150805-01
Dipole Model# D5GHzV2
Phantom#: SAMTP1208
Tissue Temp: 21.9 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.067 dB
Adjusted SAR (1W): 82.20 mW/g (1g)

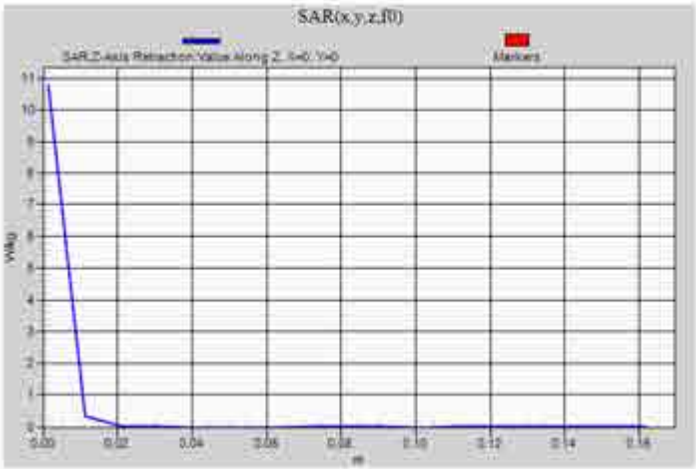
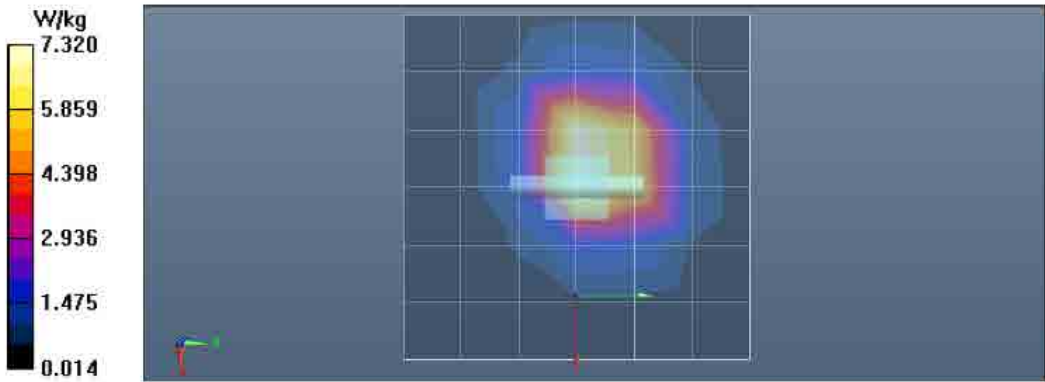
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5800\text{ MHz}$; $\sigma = 5.21\text{ S/m}$; $\epsilon_r = 35.3$; $\rho = 1000\text{ kg/m}^3$
Probe: EX3DV4 - SN3612, , Frequency: 5800 MHz, ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2015
Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 7.32 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 50.67 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 4.11 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.6 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.8 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 10/20/2015 3:37:37 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5200B-151020-01
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.2 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.048 dB
Adjusted SAR (1W): 79.80 mW/g (1g)

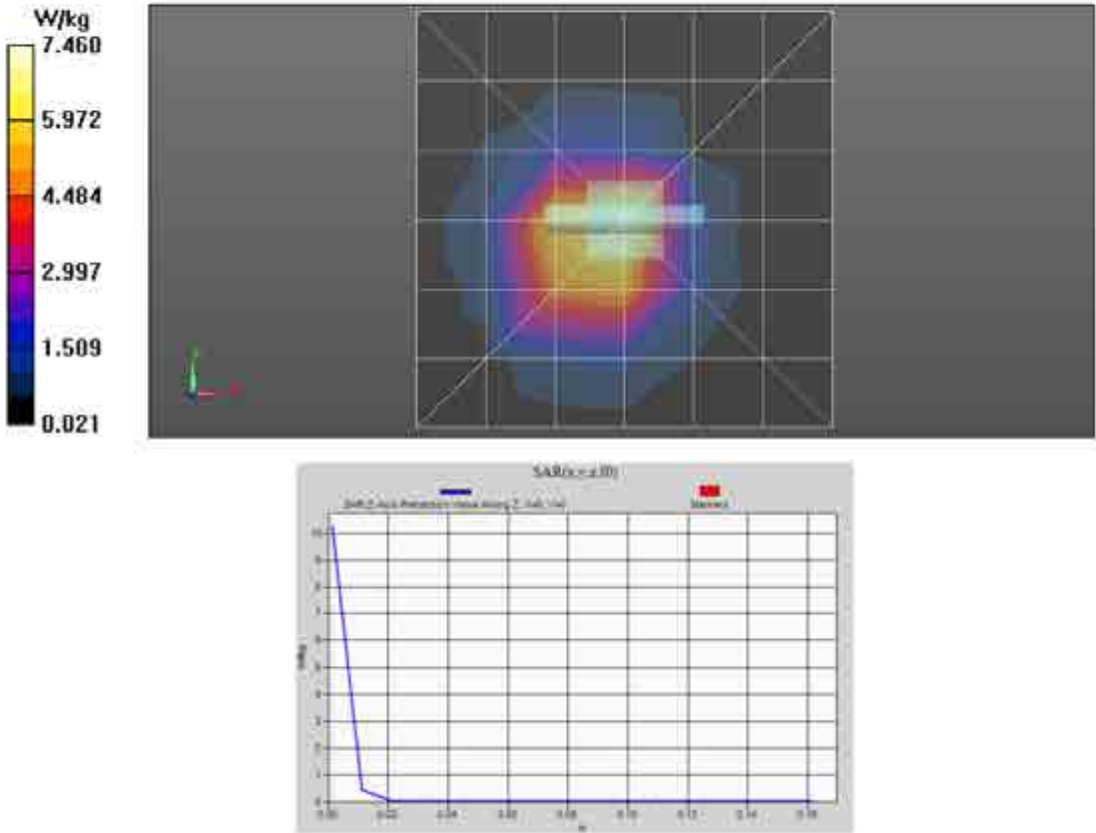
Comments:

Duty Cycle: 1:1, Medium parameters used: f = 5200 MHz; $\sigma = 5.61 \text{ S/m}$; $\epsilon_r = 49.1$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, , Frequency: 5200 MHz, ConvF(4.37, 4.37, 4.37); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 7.46 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement
grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 47.13 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 18.1 W/kg
SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.11 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.1 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.3 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 10/20/2015 5:02:44 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500B-151020-02
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.2 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.075 dB
Adjusted SAR (1W): 86.00 mW/g (1g)

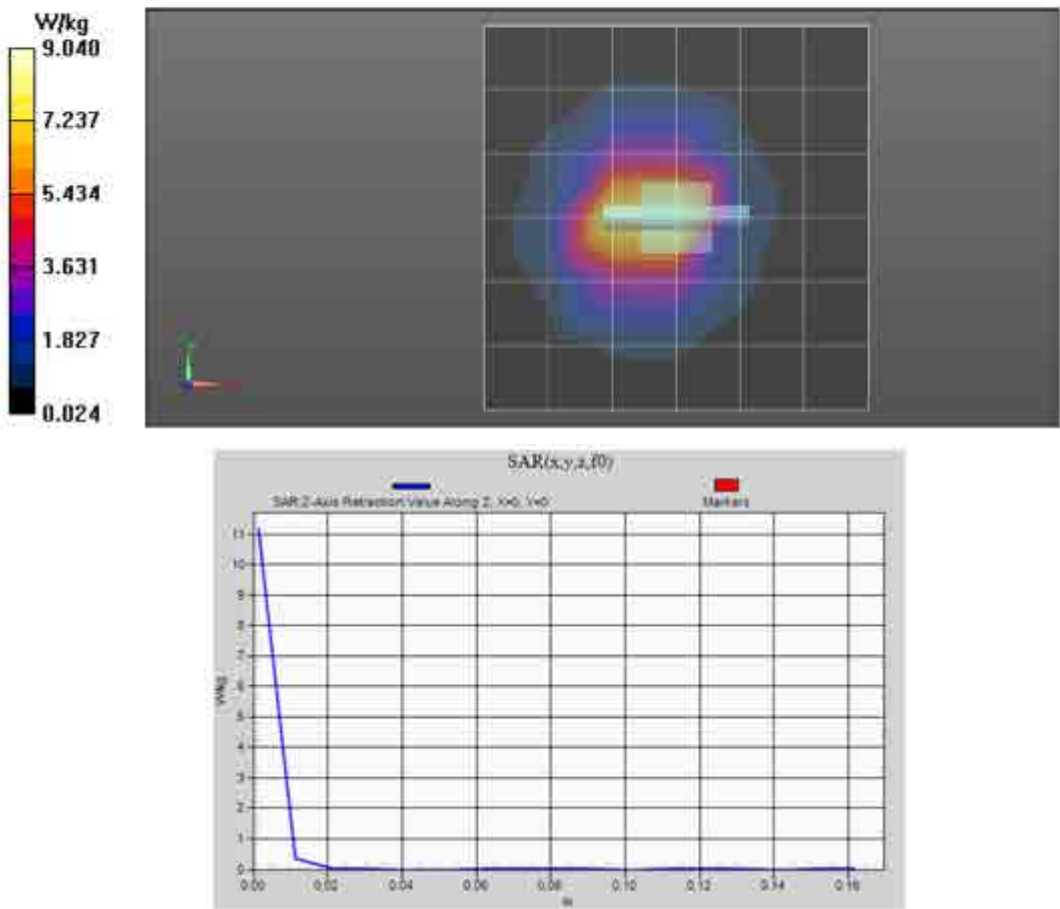
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5500$ MHz; $\sigma = 6.01$ S/m; $\epsilon_r = 48.4$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5500 MHz, ConvF(3.78, 3.78, 3.78); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.04 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 48.24 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 20.2 W/kg
SAR(1 g) = 4.3 W/kg; SAR(10 g) = 1.19 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.8 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 11.2 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 10/20/2015 7:40:39 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800B-151020-05
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.2 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.17 dB
Adjusted SAR (1W): 72.60 mW/g (1g)

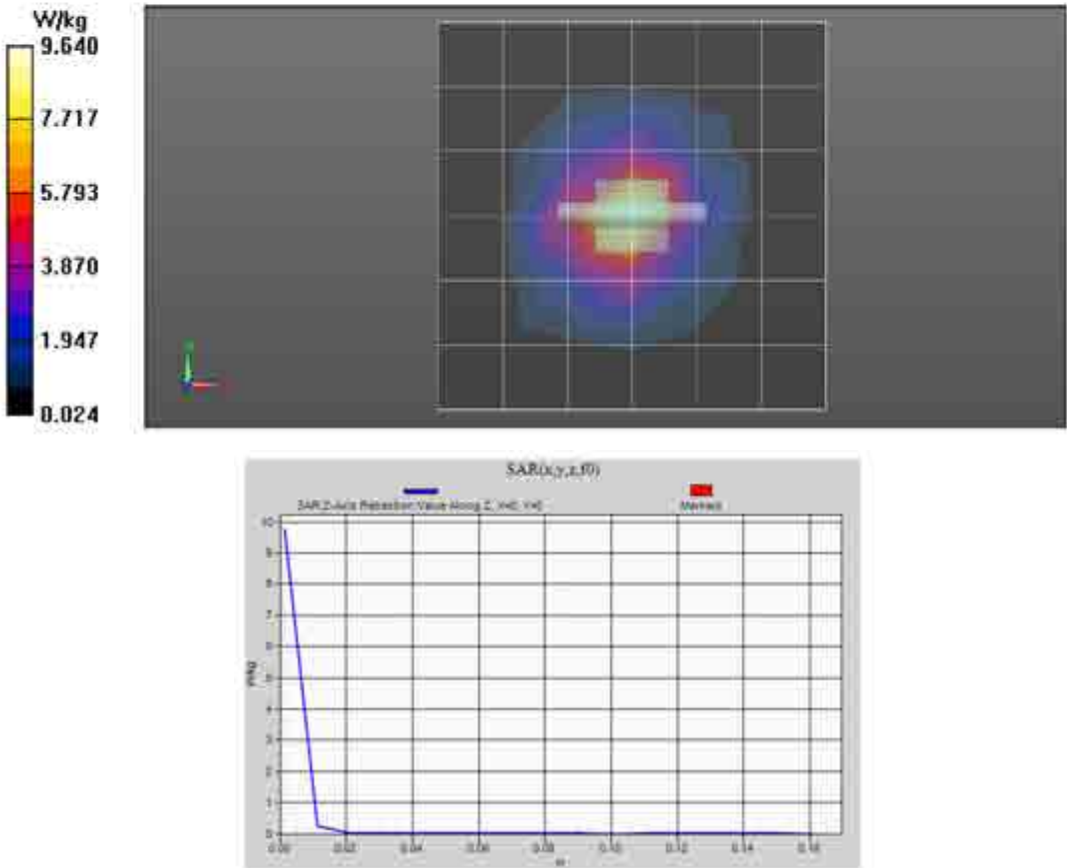
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5800$ MHz; $\sigma = 6.49$ S/m; $\epsilon_r = 47.3$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5800 MHz, ConvF(3.95, 3.95, 3.95); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.64 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 43.84 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 3.63 W/kg; SAR(10 g) = 0.998 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.49 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 9.75 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/7/2015 1:03:48 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5200B-151107-01
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.7 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.066 dB
Adjusted SAR (1W): 77.60 mW/g (1g)

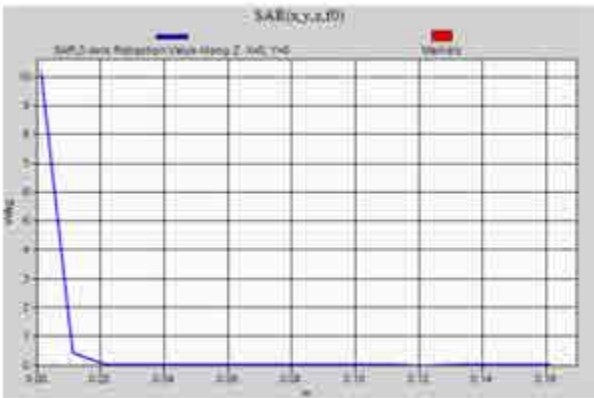
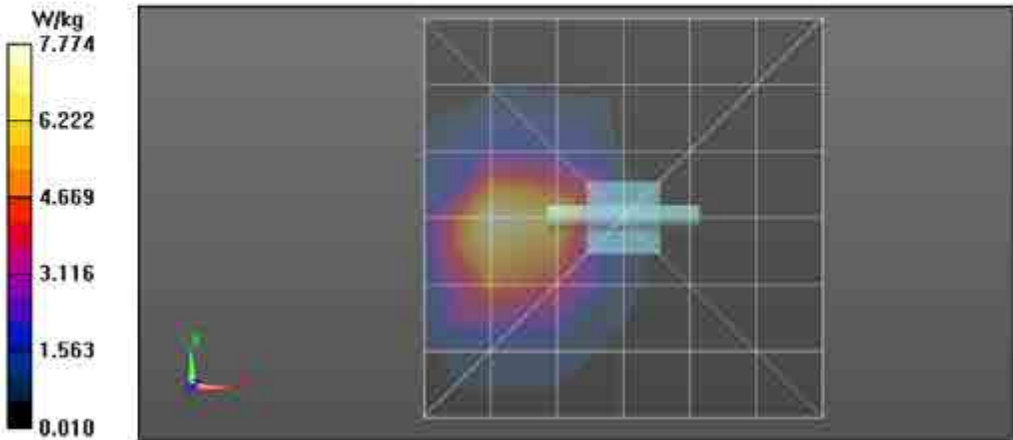
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5200$ MHz; $\sigma = 5.46$ S/m; $\epsilon_r = 46.5$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612... Frequency: 5200 MHz, ConvF(4.37, 4.37, 4.37); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 7.77 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 46.48 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.08 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.90 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.1 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/7/2015 1:57:25 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500B-151107-02
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.7 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.055 dB
Adjusted SAR (1W): 83.60 mW/g (1g)

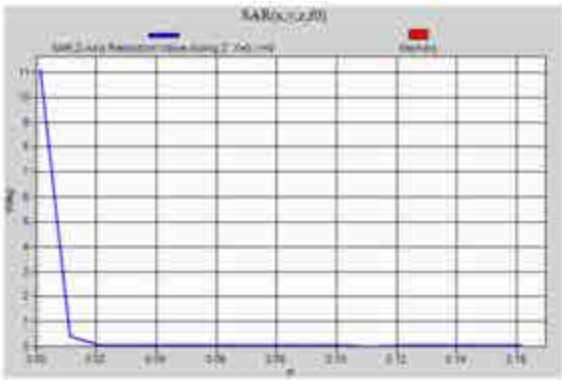
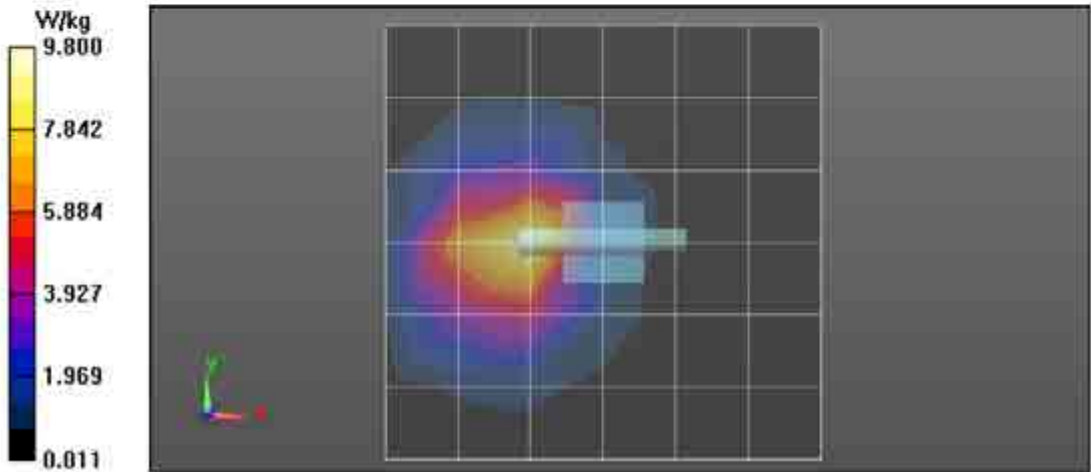
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 5500$ MHz; $\sigma = 5.8$ S/m; $\epsilon_r = 46$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, , Frequency: 5500 MHz, ConvF(3.78, 3.78, 3.78); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.80 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 48.38 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 20.0 W/kg
SAR(1 g) = 4.18 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.8 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 11.1 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/7/2015 8:10:23 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800B-151107-07
Dipole Model#: D5GHzV2
Phantom#: Triple 1117-1
Tissue Temp: 21.2 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.06 dB
Adjusted SAR (1W): 75.0 mW/g (1g)

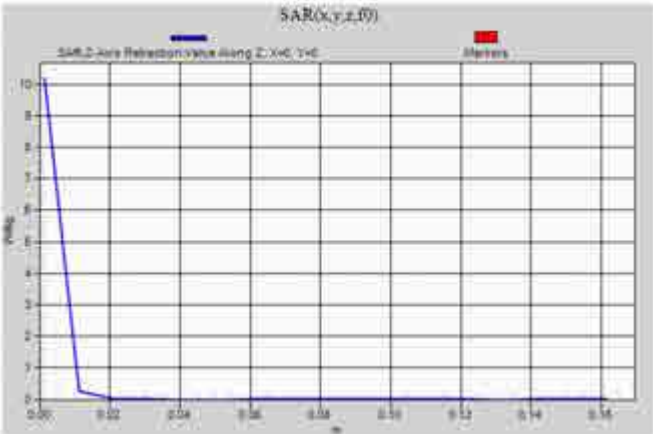
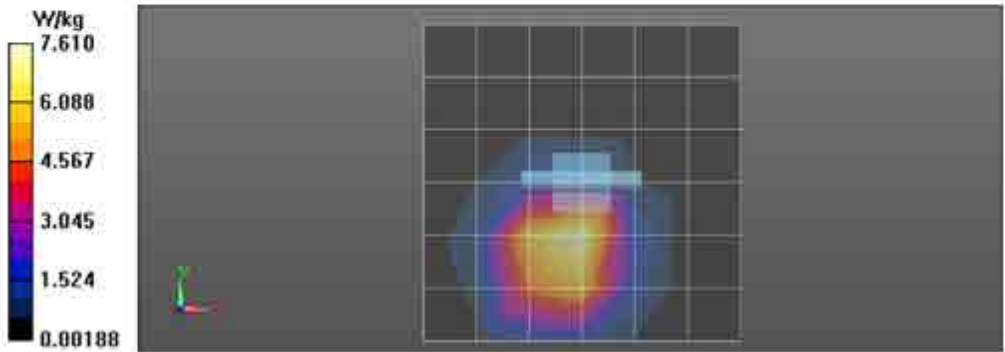
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5800$ MHz; $\sigma = 6.21$ S/m; $\epsilon_r = 45.5$; $\rho = 1000$ kg/m³
Probe: EX3DV4 + SN3612, Frequency: 5800 MHz. ConvF(3.95, 3.95, 3.95); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 7.61 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 45.74 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 19.0 W/kg
SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.03 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.98 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.2 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/8/2015 1:58:21 AM

Robot#: DASY5-FL-2 | Run#: EtC-SYSP-5200H-151108-03
Dipole Model#: D5GHzV2
Phantom#: SAMTP1209
Tissue Temp: 21.0 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.065 dB
Adjusted SAR (1W): 79.80 mW/g (1g)

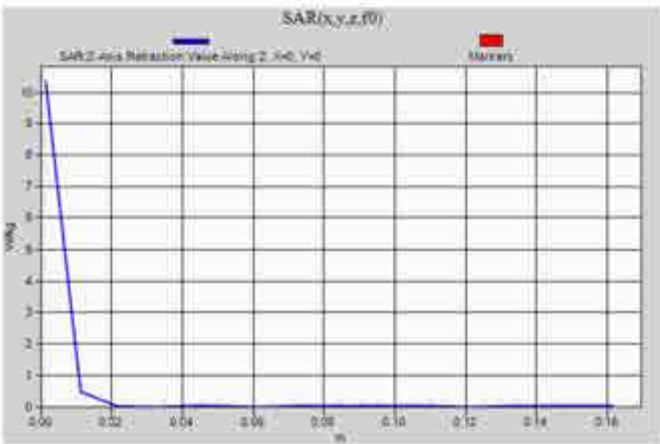
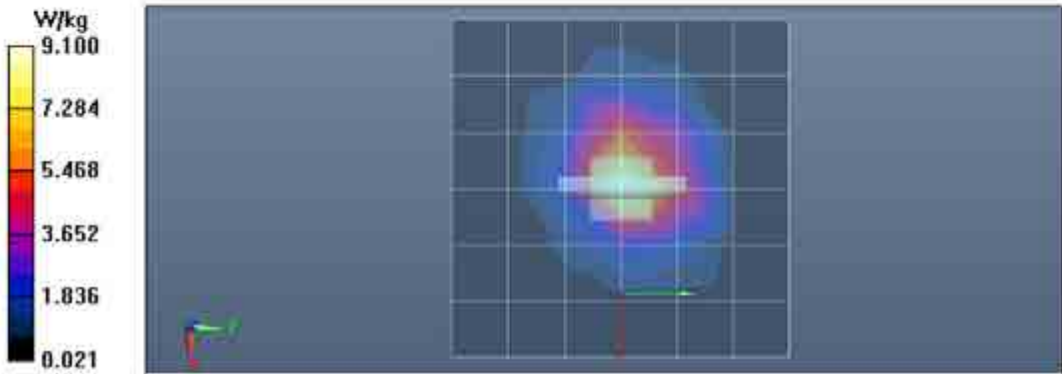
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5200$ MHz; $\sigma = 4.38$ S/m; $\epsilon_t = 33.6$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 5200 MHz, ConvF(4.66, 4.66, 4.66); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 9.10 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 52.17 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.12 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.1 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.3 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/8/2015 1:05:38 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500H-151108-02
Dipole Model#: D5GHzV2
Phantom#: SAMTP1209
Tissue Temp: 21.0 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.058 dB
Adjusted SAR (1W): 76.0 mW/g (1g)

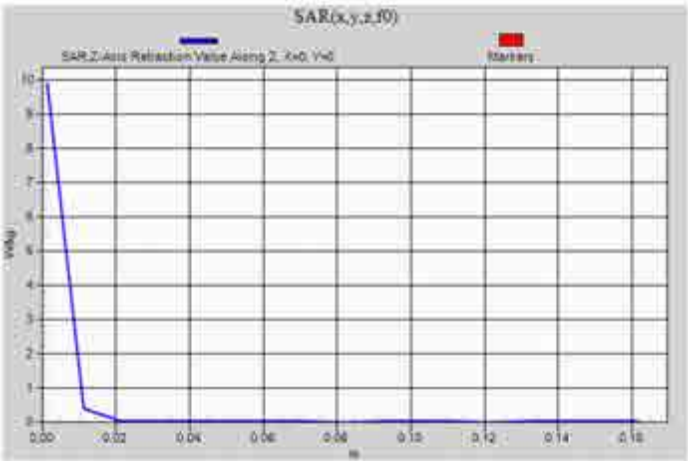
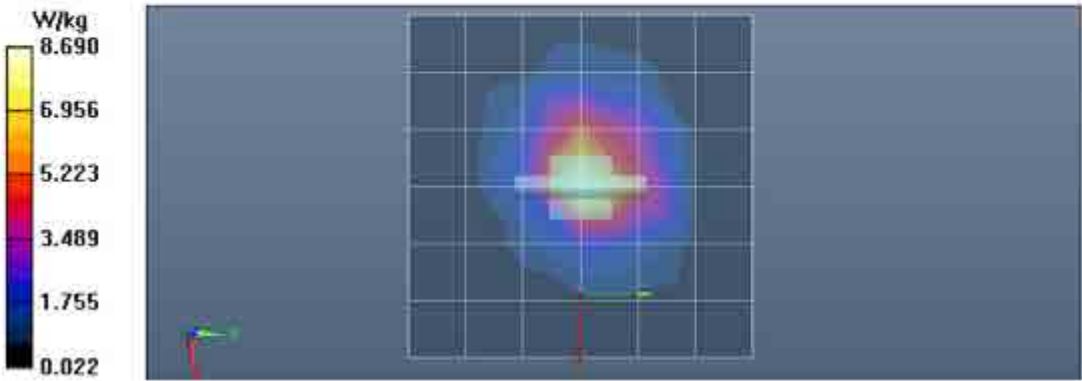
Comments:

Duty Cycle: 1:1; Medium parameters used: $f = 5500$ MHz; $\sigma = 4.59$ S/m; $\epsilon_r = 33.2$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, , Frequency: 5500 MHz, ConvF(4.45, 4.45, 4.45); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 8.69 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 51.60 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 3.8 W/kg; SAR(10 g) = 1.06 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.82 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 9.90 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/8/2015 12:06:50 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5800H-151108-01
Dipole Model#: D5GHzV2
Phantom#: SAMTP1209
Tissue Temp: 21.0 (C)
Serial#: 1022
Test Freq: 5800 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.064 dB
Adjusted SAR (1W): 73.80 mW/g (1g)

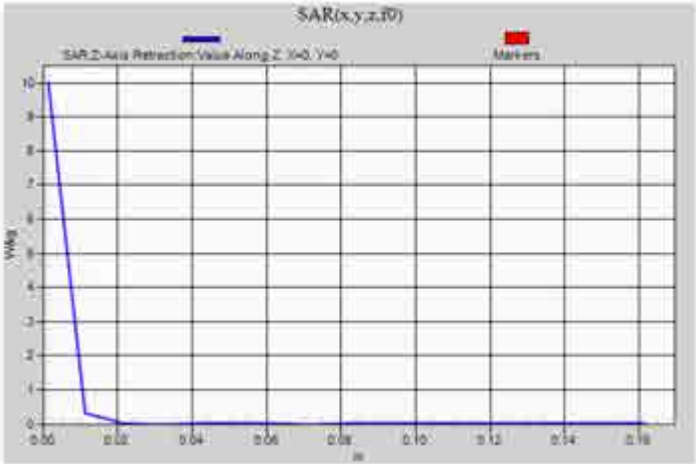
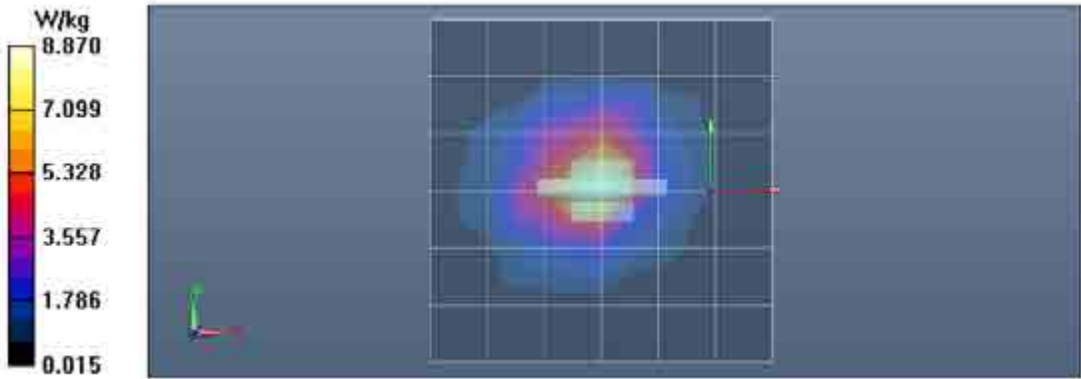
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 4.89 \text{ S/m}$; $\epsilon_t = 32.6$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 5800 MHz. ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2015
Electronics: DAE4 Sn850. Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 8.87 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 49.91 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 17.7 W/kg
SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.02 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 9.63 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.0 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/9/2015 3:36:12 AM

Robot#: DASY-5-FL-2 | Run#: EtC-SYSP-5200H-151109-01
Dipole Model#: D5GHzV2
Phantom#: SAMTP1209
Tissue Temp: 22.2 (C)
Serial#: 1022
Test Freq: 5200 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.045 dB
Adjusted SAR (1W): 81.60 mW/g (1g)

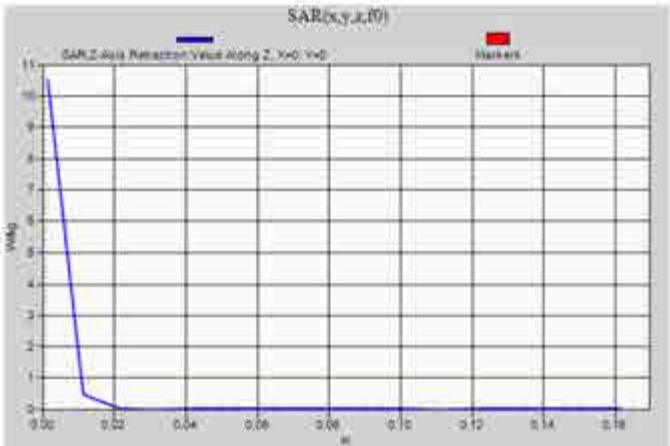
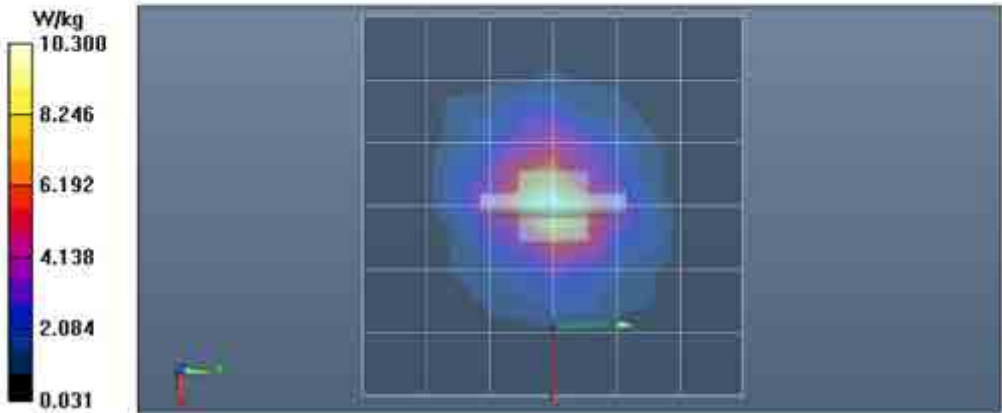
Comments:

Duty Cycle: 1:1; Medium parameters used: $f = 5200$ MHz; $\sigma = 4.54$ S/m; $\epsilon_r = 35.1$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612... Frequency: 5200 MHz. ConvF(4.66, 4.66, 4.66); Calibrated: 4/28/2015
Electronics: DAE4 Sn850; Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 10.3 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement
grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 51.73 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 17.5 W/kg
SAR(1 g) = 4.08 W/kg; SAR(10 g) = 1.15 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.1 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.5 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/9/2015 4:27:24 AM

Robot#: DASY5-FL-2 | Run#: ErC-SYSP-5500H-151109-02
Dipole Model#: D5GHzV2
Phantom#: SAMTP1209
Tissue Temp: 22.2 (C)
Serial#: 1022
Test Freq: 5500 (MHz)
Start Power: 50 (mW)
Rotation (1D): 0.054 dB
Adjusted SAR (1W): 84.4 mW/g (1g)

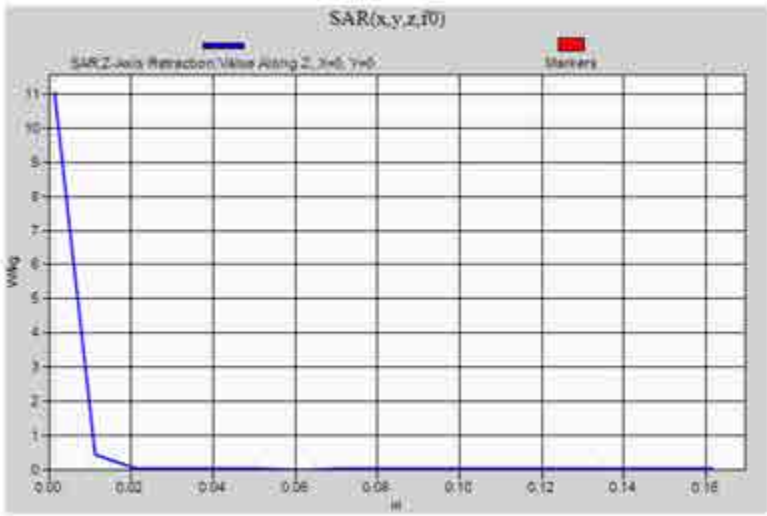
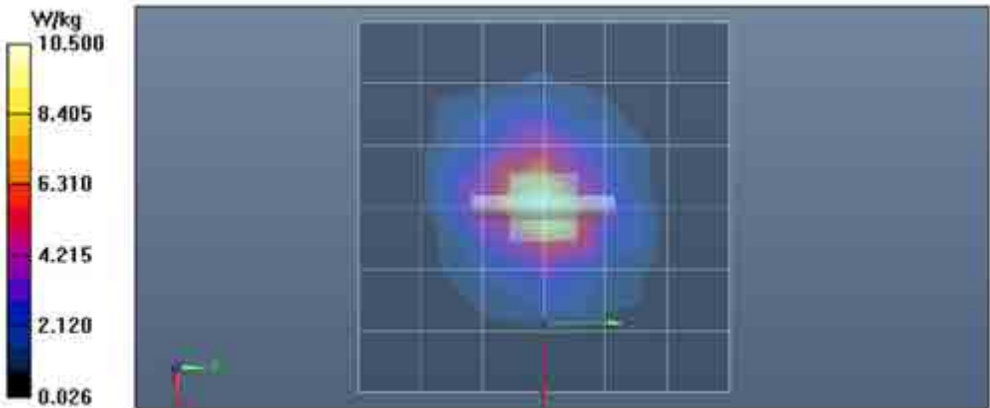
Comments:

Duty Cycle: 1:1. Medium parameters used: $f = 5500$ MHz; $\sigma = 4.85$ S/m; $\epsilon_r = 34.6$; $\rho = 1000$ kg/m³
Probe: EX3DV4 + SN3612. , Frequency: 5500 MHz, ConvF(4.45, 4.45, 4.45); Calibrated: 4/28/2015
Electronics: DAE4 Sn850. Calibrated: 8/24/2015

4-6 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (7x7x1): Measurement grid:
dx=9mm, dy=9mm
Maximum value of SAR (measured) = 10.5 W/kg

4-6 GHz-Rev.4/System Performance Check/0-Degree Cube (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 51.46 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 18.3 W/kg
SAR(1 g) = 4.22 W/kg; SAR(10 g) = 1.18 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 10.5 W/kg

4-6 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 11.0 W/kg



H.8 DUT Data

Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/17/2015 12:39:10 PM

Robot#: DASY5-FL-2 | Run#: ErC-Ab-150917-08
Model#: LEX101
Phantom#: Triple 1168-1
Tissue Temp: 20.6 (C)
Serial#: 171PRQ0394
Antenna: WLAN - Internal
Test Freq: 2437 (MHz)
Battery: Standard PMNN4472B
Carry Acc: HKLN4618A Rev1 back
Audio Acc: None
Start Power: .0224 (W)

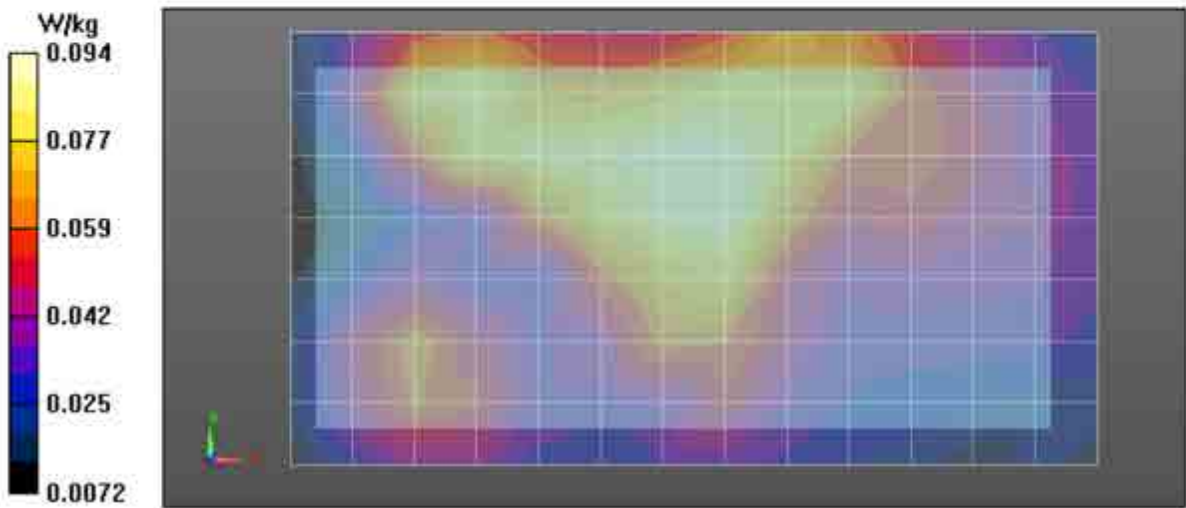
Comments:

Duty Cycle: 1:1.42561, Medium parameters used: f = 2437 MHz; $\sigma = 1.99 \text{ S/m}$; $\epsilon_r = 51.8$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 2437 MHz, ConvF(6.4, 6.4, 6.4); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

2-3 GHz-Rev.2/Ab Scan/1-Area Scan (14x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0939 W/kg

2-3 GHz-Rev.2/Ab Scan/3-Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.887 V/m; Power Drift = -0.86 dB
Peak SAR (extrapolated) = 0.137 W/kg
SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.041 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.107 W/kg

2-3 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.0880 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/18/2015 6:33:47 AM

Robot#: DASY5-FL-2 | Run#: ErC-Ab-150918-04
Model#: LEX101
Phantom#: Triple 1168-1
Tissue Temp: 21.5 (C)
Serial#: 171PRQ0394
Antenna: WLAN - Internal
Test Freq: 2437 (MHz)
Battery: Standard PMNN4472B
Carry Acc: Hot spot - Non PTT side of DUT @ 10mm
Audio Acc: None
Start Power: .0224 (W)

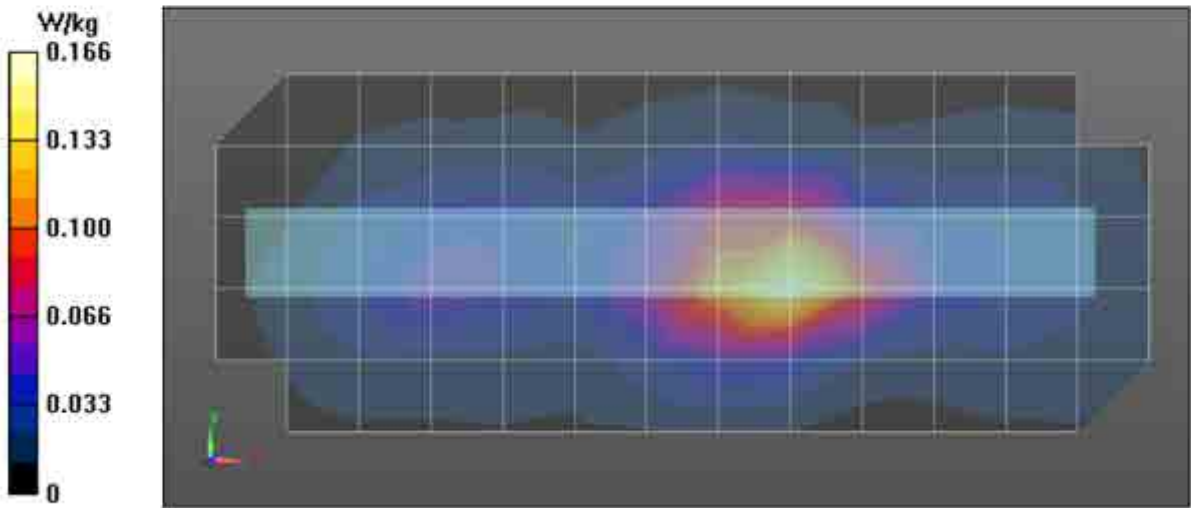
Comments:

Duty Cycle: 1:1.42561, Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.98 \text{ S/m}$; $\epsilon_r = 51.4$; $\rho = 1000 \text{ kg/m}^3$
Probe: EX3DV4 - SN3612, Frequency: 2437 MHz, ConvF(6.4, 6.4, 6.4); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

2-3 GHz-Rev.2/Ab Scan/1-Area Scan (14x6x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
Maximum value of SAR (measured) = 0.166 W/kg

2-3 GHz-Rev.2/Ab Scan/3-Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 6.312 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.053 W/kg (SAR corrected for target medium)

2-3 GHz-Rev.2/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$, $dz=10\text{mm}$
Maximum value of SAR (measured) = 0.172 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 9/17/2015 9:30:07 AM

Robot#: DASY5-FL-2 | Run#: ErC-Lear-150917-06
Model#: LEX10I
Phantom#: SAMTP1208
Tissue Temp: 21.6 (C)
Serial#: 171PRQ0394
Antenna: WLAN - Internal
Test Freq: 2437 (MHz)
Battery: Extended PMNN4475B
Carry Acc: Touch
Audio Acc: None
Start Power: .0224 (W)

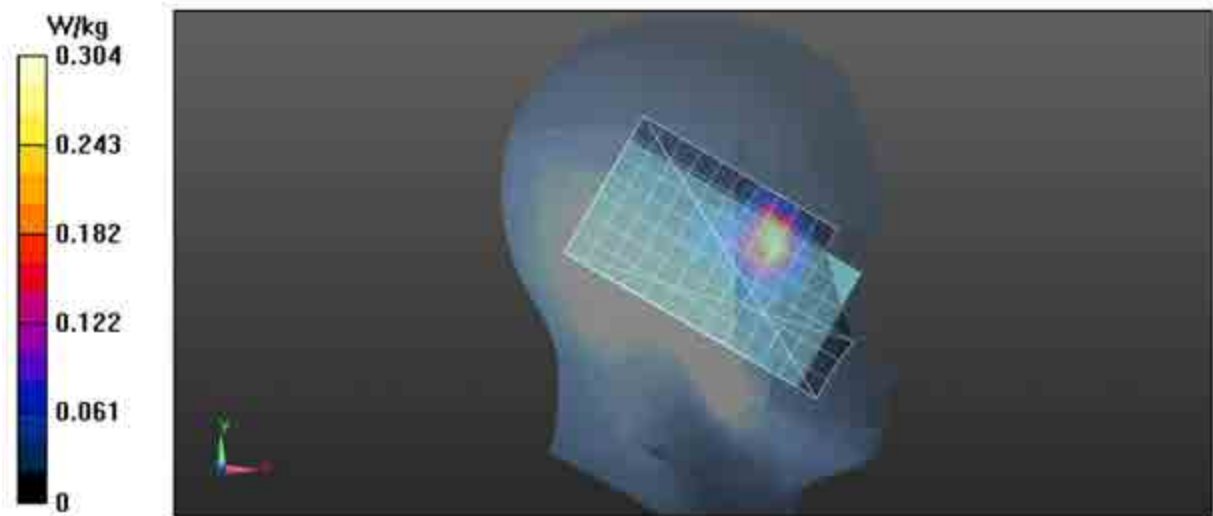
Comments:

Duty Cycle: 1:1.42561, Medium parameters used: $f = 2437$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 40.8$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612, Frequency: 2437 MHz, ConvF(6.26, 6.26, 6.26); Calibrated: 4/28/2015
Electronics: DAE4 Sn850, Calibrated: 8/24/2015

2-3 GHz-Rev.2/Left Ear-Touch position/1-Area Scan (8x14x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.304 W/kg

2-3 GHz-Rev.2/Left Ear-Touch position/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.905 V/m; Power Drift = -0.70 dB
Peak SAR (extrapolated) = 0.458 W/kg
SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.093 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.309 W/kg

2-3 GHz-Rev.2/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/31/2015 10:12:22 AM

Robot#: DASY5-FL-2 | Run#: ErC-Ab-150731-07
 Model#: LEX10I
 Phantom#: Triple 1168-1
 Tissue Temp: 22.0 (C)
 Serial#: 171PRL0854
 Antenna: WLAN - Internal
 Test Freq: 5825 (MHz)
 Battery: Standard PMNN4472B
 Carry Acc: HKLN4618A Rev1 back
 Audio Acc: None
 Start Power: .0251 (W)

Comments: Full Scan

Duty Cycle: 1:6.85488, Medium parameters used: $f = 5825$ MHz; $\sigma = 6.2$ S/m; $\epsilon_r = 47$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN3612, Frequency: 5825 MHz, ConvF(3.95, 3.95, 3.95); Calibrated: 4/28/2015

Electronics: DAE3 Sn363, Calibrated: 1/15/2015

4-6 GHz-Rev.4/Full Ab Scan/1-Area Scan (171x91x1): Interpolated grid: dx=0.9000 mm, dy=0.9000 mm

Reference Value = 3.037 V/m; Power Drift = 0.12 dB

Fast SAR: SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.010 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.0603 W/kg

4-6 GHz-Rev.4/Full Ab Scan/2-Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.037 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 0.163 W/kg

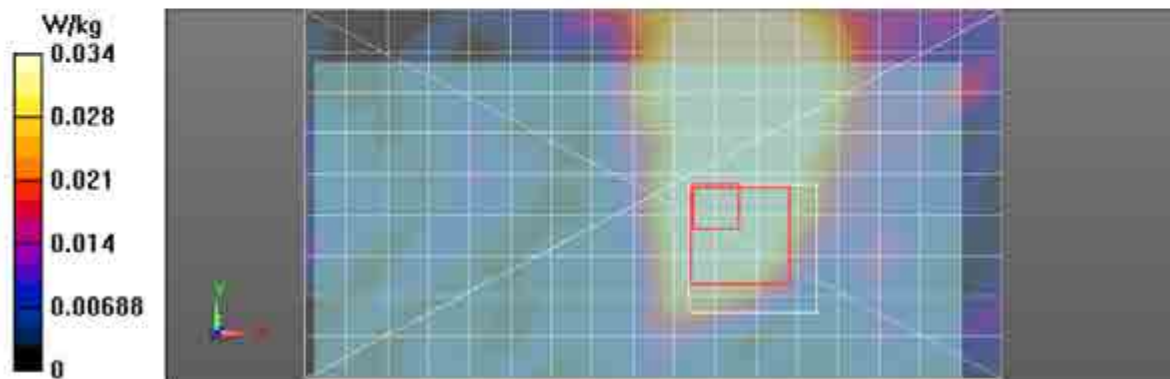
SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00668 W/kg (SAR corrected for target medium)

Warning: Maximum averaged SAR over 1 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement. Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

Maximum value of SAR (measured) = 0.0576 W/kg

4-6 GHz-Rev.4/Full Ab Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.0344 W/kg



Motorola Solutions, Inc. EME Laboratory

Date/Time: 11/7/2015 7:25:38 AM

Robot#: DASY5-FL-2 | Run#: ErC-Ab-151107-06
 Model#: LEX101
 Phantom#: Triple 1117-1
 Tissue Temp: 21.2 (C)
 Serial#: 171PRQ0369
 Antenna: WLAN - Internal
 Test Freq: 5560 (MHz)
 Battery: Extended PMNN4475B
 Carry Acc: Right side of DUT @ 1cm, Non PTT side
 Audio Acc: None
 Start Power: .032 (W)

Comments: Full Scan

Duty Cycle: 1:6.85488, Medium parameters used: $f = 5560$ MHz; $\sigma = 5.9$ S/m; $\epsilon_r = 45.9$; $\rho = 1000$ kg/m³
 Probe: EX3DV4 - SN3612, , Frequency: 5560 MHz, ConvF(3.65, 3.65, 3.65); Calibrated: 4/28/2015
 Electronics: DAE4 Sn850, Calibrated: 8/24/2015

4-6 GHz-Rev.4/Full Ab Scan/1-Area Scan (18x6x1): Measurement grid: dx=9mm, dy=9mm

Maximum value of SAR (measured) = 1.14 W/kg

4-6 GHz-Rev.4/Full Ab Scan/2-Zoom Scan (9x9x12)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=2mm

Reference Value = 12.96 V/m; Power Drift = 0.07 dB

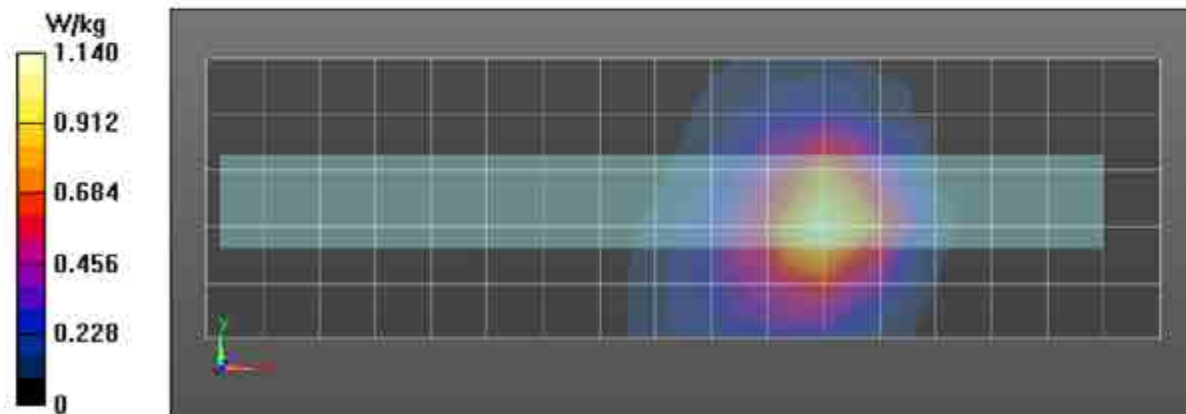
Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.497 W/kg; SAR(10 g) = 0.169 W/kg (SAR corrected for target medium)

4-6 GHz-Rev.4/Full Ab Scan/3-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm,

dz=10mm

Maximum value of SAR (measured) = 1.20 W/kg



Motorola Solutions, Inc. EME Laboratory
Date/Time: 11/8/2015 4:45:58 AM

Robot#: DASY5-FL-2 | Run#: ErC-Rear-151108-06
Model#: LEX10i
Phantom#: SAMTP1209
Tissue Temp: 21.4 (C)
Serial#: 171PRQ0369
Antenna: WLAN - Internal
Test Freq: 5825 (MHz)
Battery: Standard PMNN4472B
Carry Acc: Touch
Audio Acc: None
Start Power: .0256 (W)

Comments:

Duty Cycle: 1:6.85488. Medium parameters used: $f = 5825$ MHz; $\sigma = 4.93$ S/m; $\epsilon_r = 32.6$; $\rho = 1000$ kg/m³
Probe: EX3DV4 - SN3612,, Frequency: 5825 MHz, ConvF(4.38, 4.38, 4.38); Calibrated: 4/28/2015
Electronics: DAE4 Sn850. Calibrated: 8/24/2015

4-6 GHz-Rev.4/Full Scan Right Ear-Touch Position/1-Area Scan (11x19x1): Measurement

grid: dx=9mm, dy=9mm
Maximum value of SAR (measured) = 0.683 W/kg

4-6 GHz-Rev.4/Full Scan Right Ear-Touch Position/2-Zoom Scan (8x8x12)/Cube 0:

Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 7.108 V/m; Power Drift = 0.32 dB
Peak SAR (extrapolated) = 2.21 W/kg
SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.080 W/kg (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.704 W/kg

4-6 GHz-Rev.4/Full Scan Right Ear-Touch Position/3-Z-Axis Scan (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.184 W/kg

