

SAR Compliance Test Report

Test report no.:	FCC_RM-975_03	Date of report:	2014-04-28
Template version:	19.6	Number of pages:	124
Testing laboratory:	TCC Nokia San Diego Laboratory 16620 West Bernardo Drive SAN DIEGO CA. 92127 USA Tel. +1 858 831 5000 Fax. +1 858 831 6500	Client:	Nokia Corporation P.O. Box 68 Sinitaival 5 FIN-33721 TAMPERE, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 46880
Responsible test engineer:	Jose Gomez	Product contact person:	Juha Paukku
Measurements made by:	Ray Ventura, Angelina Belden, Guy Abadilla, Jose Gomez, Jani Tuomela		
Tested device:	RM-975		
FCC ID:	PDNRM-975	IC:	661R-RM975
Supplement reports:	SAR_Photo_RM-975_04		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC published RF exposure KDB procedures RSS-102, Issue 4 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE 1528 - 2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Nokia.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:			

CONTENTS

1. SUMMARY OF SAR TEST REPORT	4
1.1 TEST DETAILS	4
1.2 MAXIMUM RESULTS.....	4
1.2.1 Head Configuration.....	4
1.2.2 Body Worn Configuration.....	6
1.2.3 Wireless Router Configuration.....	7
1.2.4 Summary SAR data.....	9
1.2.5 Maximum Drift	10
1.2.6 Measurement Uncertainty.....	10
2. DESCRIPTION OF THE DEVICE UNDER TEST	11
2.1 POWER REDUCTIONS IN WIRELESS ROUTER CONFIGURATIONS	14
2.2 DESCRIPTION OF THE ANTENNA.....	14
3. TEST CONDITIONS	16
3.1 TEMPERATURE AND HUMIDITY.....	16
3.2 TEST SIGNAL, FREQUENCIES AND OUTPUT POWER.....	16
4. DESCRIPTION OF THE TEST EQUIPMENT.....	18
4.1 MEASUREMENT SYSTEM AND COMPONENTS	18
4.1.1 Isotropic E-field Probe Type ES3DV3	20
4.1.2 Isotropic E-field Probe Type EX3DV4	20
4.2 PHANTOMS	21
4.3 TISSUE SIMULANTS	21
4.3.1 Tissue Simulant Recipes.....	21
4.4 SYSTEM VALIDATION AND SYSTEM CHECKING.....	22
4.4.1 System validation status.....	22
4.4.2 System checking	22
4.5 TISSUE SIMULANTS USED IN THE MEASUREMENTS.....	25
5. DESCRIPTION OF THE TEST PROCEDURE.....	27
5.1 DEVICE HOLDER.....	27
5.2 TEST POSITIONS.....	27
5.2.1 Against Phantom Head.....	27
5.2.2 Body Worn Configuration.....	27
5.2.3 Wireless Router Configuration.....	28
5.3 SCAN PROCEDURES.....	28
5.4 SAR AVERAGING METHODS.....	28
6. MEASUREMENT UNCERTAINTY.....	29
7. RESULTS.....	31
7.1 THE MEASURED HEAD SAR VALUES FOR THE TEST DEVICE ARE TABULATED BELOW:	31
7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements.....	59
7.1.2 Combined Head SAR data	60
7.2 THE MEASURED BODY SAR VALUES FOR THE TEST DEVICE ARE TABULATED BELOW:	62

7.2.1	Combined Body SAR data.....	89
7.3	BODY SAR ASSESSMENT OF WIRELESS ROUTER MODE AT 10.0MM SEPARATION DISTANCE.....	92
7.3.1	Combined Body SAR data.....	122

APPENDIX A: SYSTEM CHECK SCANS

APPENDIX B: MEASUREMENT SCANS

APPENDIX C: DIELECTRIC PARAMETERS OF THE TISSUE SIMULANTS

APPENDIX D: CONDUCTED AVERAGE POWER MEASUREMENTS FOR WCDMA AND HSUPA

APPENDIX E: RELEVANT PAGES FROM PROBE CALIBRATION REPORT(S)

APPENDIX F: RELEVANT PAGES FROM DIPOLE VALIDATION REPORT(S)

APPENDIX G: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED LTE TRANSMISSION MODES

APPENDIX H: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED GSM/GPRS/EGPRS TRANSMISSION MODES

APPENDIX I: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED WCDMA TRANSMISSION MODES

APPENDIX J: CONDUCTED POWER MEASUREMENTS FOR SUPPORTED WLAN TRANSMISSION MODES

1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2014-04-08 to 2014-04-24
SN, HW and SW numbers of tested device	SN: 004402/47/804496/3, HW: 2020, SW: 01061.00014.1414112.00000, DUT: 31365 SN: 004402/47/804007/8, HW: 2020, SW: 01061.00014.1414112.00000, DUT: 31364 SN: 004402/47/804005/2, HW: 2020, SW: 01061.00014.1414112.00000, DUT: 31351 SN: 004402/47/804009/4, HW: 2020, SW: 01061.00014.1414112.00000, DUT: 31350 SN: 004402/47/804000/3, HW: 2020, SW: 01061.00014.1414112.00000, DUT: 31349
Batteries used in testing	BL-5H, DUT: 31368, 31367, 31366, 31360, 31359, 31358, 31357, 31356, 31355
Headsets used in testing	WH-108, DUT: 31361, 31362, 31363
Other accessories used in testing	CC-3085, DUT: 31354, 31353, 31352
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.2.1, 1.2.2 and 1.2.3 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

1.2.1 Head Configuration

Mode	Ch / f (MHz)	Conducted power	Position	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790/710.0	22.8 dBm	Left, Cheek	0.342 W/kg	0.39 W/kg	1.6 W/kg	PASSED	1
2-slot GPRS850	128/824.2	29.2 dBm	Left, Cheek	0.583 W/kg	0.65 W/kg	1.6 W/kg	PASSED	2
WCDMA850 (Band 5)	4132/826.4	23.1 dBm	Left, Cheek	0.582 W/kg	0.70 W/kg	1.6 W/kg	PASSED	3
LTE850 (Band 5)	20525/836.5	22.7 dBm	Left, Cheek	0.396 W/kg	0.47 W/kg	1.6 W/kg	PASSED	4
WCDMA1700/2100 (Band 4)	1412/1732.4	23.1dBm	Left, Cheek	0.627 W/kg	0.75 W/kg	1.6 W/kg	PASSED	5
LTE1700/2100 (Band 4)	23175/1732.5	22.6 dBm	Left, Cheek	0.536 W/kg	0.64 W/kg	1.6 W/kg	PASSED	6
2-slot GPRS1900	810/1909.8	28.8 dBm	Left, Cheek	0.551 W/kg	0.63 W/kg	1.6 W/kg	PASSED	7
WCDMA1900 (Band 2)	9538/1907.6	22.9 dBm	Left, Cheek	0.710 W/kg	0.80 W/kg	1.6 W/kg	PASSED	8

(Table Continues)

(Table Continues)

LTE1900 (Band 2)	18900/ 1880.0	22.1 dBm	Left, Cheek	0.882 W/kg	1.06 W/kg	1.6 W/kg	PASSED	9
LTE2500 (Band 7)	21100/ 2535.0	22.1 dBm	Left, Cheek	0.358 W/kg	0.38 W/kg	1.6 W/kg	PASSED	10
WLAN 2450	11/ 2462.0	16.5 dBm	Left, Cheek	0.723 W/kg	0.92 W/kg	1.6 W/kg	PASSED	11
LTE700 (Band 17) + WLAN2450	-	-	Left, Cheek	0.842 W/kg	1.06 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	Left, Cheek	0.888 W/kg	1.11 W/kg	1.6 W/kg	PASSED	-
WCDMA850 (Band 5) + WLAN2450	-	-	Left, Cheek	0.884 W/kg	1.11 W/kg	1.6 W/kg	PASSED	12
LTE850 (Band 5) + WLAN2450	-	-	Left, Cheek	0.832 W/kg	1.05 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	Left, Cheek	0.974 W/kg	1.22 W/kg	1.6 W/kg	PASSED	13
LTE1700/2100 (Band 4) + WLAN2450	-	-	Left, Cheek	0.955 W/kg	1.20 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS1900 + WLAN2450	-	-	Left, Cheek	0.830 W/kg	1.05 W/kg	1.6 W/kg	PASSED	-
WCDMA1900 (Band 2) + WLAN2450	-	-	Left, Cheek	0.848 W/kg	1.06 W/kg	1.6 W/kg	PASSED	14
LTE1900 (Band 2) + WLAN2450	-	-	Left, Cheek	0.865 W/kg	1.09 W/kg	1.6 W/kg	PASSED	15
LTE2500 (Band 7) + WLAN2450	-	-	Left, Cheek	0.788 W/kg	1.00 W/kg	1.6 W/kg	PASSED	-

1.2.2 Body Worn Configuration

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790/ 710.0	22.8 dBm	1.5 cm	0.433 W/kg	0.50 W/kg	1.6 W/kg	PASSED	16
2-slot GPRS850	128/ 824.2	29.2 dBm	1.5 cm	0.528 W/kg	0.59 W/kg	1.6 W/kg	PASSED	17
WCDMA850 (Band 5)	4132/ 826.4	23.1 dBm	1.5 cm	0.589 W/kg	0.71 W/kg	1.6 W/kg	PASSED	18
LTE850 (Band 5)	20525/ 836.5	22.7 dBm	1.5 cm	0.345 W/kg	0.41 W/kg	1.6 W/kg	PASSED	19
WCDMA1700/2100 (Band 4)	1312/ 1712.4	23.4 dBm	1.5 cm	0.692 W/kg	0.78 W/kg	1.6 W/kg	PASSED	20
LTE1700/2100 (Band 4)	23175/ 1732.5	23.1 dBm	1.5 cm	0.594 W/kg	0.64 W/kg	1.6 W/kg	PASSED	21
2-slot GPRS1900	810/ 1909.8	28.8 dBm	1.5 cm	0.592 W/kg	0.68 W/kg	1.6 W/kg	PASSED	22
WCDMA1900 (Band 2)	9262/ 1852.4	23.1 dBm	1.5 cm	0.703 W/kg	0.75 W/kg	1.6 W/kg	PASSED	23
LTE1900 (Band 2)	18900/ 1880.0	22.1 dBm	1.5 cm	0.491 W/kg	0.59 W/kg	1.6 W/kg	PASSED	24
LTE2500 (Band 7)	21100/ 2535.0	22.1 dBm	1.5 cm	0.463 W/kg	0.50 W/kg	1.6 W/kg	PASSED	25
WLAN2450	11/ 2462.0	16.5 dBm	1.5 cm	0.095 W/kg	0.12 W/kg	1.6 W/kg	PASSED	26
LTE700 (Band 17) + WLAN2450	-	-	1.5 cm	0.443W/kg	0.51 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	1.5 cm	0.535 W/kg	0.60 W/kg	1.6 W/kg	PASSED	-
WCDMA850 (Band 5) + WLAN2450	-	-	1.5 cm	0.597 W/kg	0.72 W/kg	1.6 W/kg	PASSED	-
LTE850 (Band 5) + WLAN2450	-	-	1.5 cm	0.361 W/kg	0.43 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	1.5 cm	0.715 W/kg	0.80 W/kg	1.6 W/kg	PASSED	-
LTE1700/2100 (Band 4) + WLAN2450	-	-	1.5 cm	0.594 W/kg	0.64 W/kg	1.6 W/kg	PASSED	-

(Table Continues)

(Table Continues)

2-slot GPRS1900 + WLAN2450	-	-	1.5 cm	0.592 W/kg	0.68 W/kg	1.6 W/kg	PASSED	-
WCDMA1900 (Band 2) + WLAN2450	-	-	1.5 cm	0.703 W/kg	0.75 W/kg	1.6 W/kg	PASSED	-
LTE1900 (Band 2) + WLAN2450	-	-	1.5 cm	0.499 W/kg	0.60 W/kg	1.6 W/kg	PASSED	-
LTE2500 (Band 7) + WLAN2450	-	-	1.5 cm	0.479 W/kg	0.52 W/kg	1.6 W/kg	PASSED	-

1.2.3 Wireless Router Configuration

Summary of Maximum Results for Wireless Router mode at 10.0mm

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790/ 710.0	22.8 dBm	10.0 mm	0.571 W/kg	0.66 W/kg	1.6 W/kg	PASSED	27
2-slot GPRS850	128/ 824.2	29.2 dBm	10.0 mm	0.689 W/kg	0.77 W/kg	1.6 W/kg	PASSED	28
WCDMA850 (Band 5)	4132/ 826.4	23.1 dBm	10.0 mm	0.716 W/kg	0.86 W/kg	1.6 W/kg	PASSED	29
LTE850 (Band 5)	20525/ 836.5	22.9 dBm	10.0 mm	0.434 W/kg	0.49 W/kg	1.6 W/kg	PASSED	30
WCDMA1700/2100 (Band 4)	1312/ 1712.4	21.2 dBm	10.0 mm	0.768 W/kg	1.01 W/kg	1.6 W/kg	PASSED	31
LTE1700/2100 (Band 4)	23175/ 1732.5	21.0 dBm	10.0 mm	0.647 W/kg	0.80 W/kg	1.6 W/kg	PASSED	32
2-slot GPRS1900	810/ 1909.8	28.8 dBm	10.0 mm	0.990 W/kg	1.14 W/kg	1.6 W/kg	PASSED	33
WCDMA1900 (Band 2)	9538/ 1907.6	21.3 dBm	10.0 mm	0.920 W/kg	1.06 W/kg	1.6 W/kg	PASSED	34
LTE1900 (Band 2)	18900/ 1880.0	21.1 dBm	10.0 mm	0.758 W/kg	0.81 W/kg	1.6 W/kg	PASSED	35
LTE2500 (Band 7)	20850/ 2510.0	20.6 dBm	10.0 mm	0.915 W/kg	0.98 W/kg	1.6 W/kg	PASSED	36
WLAN2450	11/ 2462.0	16.5 dBm	10.0 mm	0.215 W/kg	0.27 W/kg	1.6 W/kg	PASSED	37

(Table Continues)

(Table Continues)

LTE700 (Band 17) + WLAN2450	-	-	10.0 mm	0.578 W/kg	0.67 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	10.0 mm	0.706 W/kg	0.80 W/kg	1.6 W/kg	PASSED	-
WCDMA850 (Band 5) + WLAN2450	-	-	10.0 mm	0.757 W/kg	0.91 W/kg	1.6 W/kg	PASSED	-
LTE850 (Band 5) + WLAN2450	-	-	10.0 mm	0.493 W/kg	0.56 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	10.0 mm	0.799 W/kg	1.04 W/kg	1.6 W/kg	PASSED	-
LTE1700/2100 (Band 4) + WLAN2450	-	-	10.0 mm	0.662 W/kg	0.82 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS1900 + WLAN2450	-	-	10.0 mm	1.14 W/kg	1.14 W/kg	1.6 W/kg	PASSED	-
WCDMA1900 (Band 2) + WLAN2450	-	-	10.0 mm	1.06 W/kg	1.06 W/kg	1.6 W/kg	PASSED	-
LTE1900 (Band 2) + WLAN2450	-	-	10.0 mm	0.758 W/kg	0.81 W/kg	1.6 W/kg	PASSED	-
LTE2500 (Band 7) + WLAN2450	-	-	10.0 mm	0.917 W/kg	0.99 W/kg	1.6 W/kg	PASSED	-

* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.

1.2.4 Summary SAR data

	FCC-defined SAR values for the Grants of Equipment Authorization		
	PCE	DTS	NII
Maximum Head SAR values	1.06 W/kg	0.921 W/kg	-
{Max + Max} Simultaneous Head SAR value	1.58 W/kg [†]		
Maximum Body SAR values	0.776W/kg	0.121W/kg	-
{Max + Max} Simultaneous Body SAR value	0.883W/kg		
Maximum Product Specific (Wireless Router) SAR values	1.14 W/kg	0.274 W/kg	-
{Max + Max} Simultaneous Product Specific SAR value	1.28 W/kg		
Maximum Simultaneous SAR value Head SAR: 2-slot GPRS850 + WLAN2450	1.58 W/kg		

Note:

PCE contains the highest results between all cellular modes (cellular, AWS and PCS bands)

DTS contains the highest results between WLAN 2.4GHz + RLAN 5725-5850MHz

NII contains the highest results between RLAN 5150-5250, 5250-5350 and 5470-5725

[†] From Section 7.1 and 7.4.1:

The highest {Max + Max} Simultaneous Head SAR value is 1.98W/kg i.e. > 1.6W/kg for LTE1900 Antenna 2 + WLAN2450 Left Cheek test configuration. As described in KDB447498 D01 v05 the Antenna Pair SAR to Peak Separation Ratio = 0.04, hence Simultaneous Transmission Procedures are not required (see Section 7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements).

The second highest {Max + Max} Simultaneous Head SAR value is 1.72W/kg i.e. > 1.6W/kg for WCDMA1900 Antenna 1 + WLAN2450 Left Cheek test configuration. As described in KDB447498 D01 v05 the Antenna Pair SAR to Peak Separation Ratio = 0.03, hence Simultaneous Transmission Procedures are not required (see Section 7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements).

The third highest {Max + Max} Simultaneous Head SAR value is 1.71W/kg i.e. > 1.6W/kg for WCDMA1900 Antenna 2 + WLAN2450 Left Cheek test configuration. As described in KDB447498 D01 v05 the Antenna Pair SAR to Peak Separation Ratio = 0.03, hence Simultaneous Transmission Procedures are not required (see Section 7.4.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements).

The fourth highest {Max + Max} Simultaneous Head SAR value is 1.68W/kg i.e. > 1.6W/kg for WCDMA1700/2100 Antenna 2 + WLAN2450 Left Cheek test configuration. As described in KDB447498 D01 v05 the Antenna Pair SAR to Peak Separation Ratio = 0.03, hence Simultaneous Transmission Procedures are not required (see Section 7.4.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements).

The fifth highest {Max + Max} Simultaneous Head SAR value is 1.62W/kg i.e. > 1.6W/kg for WCDMA850 Antenna 2 + WLAN2450 Left Cheek test configuration. As described in KDB447498 D01 v05 the Antenna Pair SAR to Peak Separation Ratio = 0.04, hence Simultaneous Transmission Procedures are not required (see Section 7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements).

1.2.5 Maximum Drift

Maximum drift covered by 5% scaling up of the SAR values	Maximum drift during measurements
0.2dB	0.15dB

1.2.6 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	± 29.8%
--------------------------------	---------

2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)	Power Tuning Target (dBm)				Upper Limit of Power Tuning Tolerance (dBm)			
					1-slot	2-slot	3-slot	4-slot	1-slot	2-slot	3-slot	4-slot
GSM / GPRS	850 1900	GMSK	1/8 to 4/8	824 – 849	32.2	29.3	27.5	26.3	32.6	29.7	27.9	26.7
				1850 – 1910	29.5	29.0	27.2	25.5	29.9	29.4	27.6	25.9
EGPRS	850 1900	GMSK	1/8 to 4/8	824 – 849	26.0	24.5	23.0	21.5	26.4	24.9	23.4	21.9
				1850 – 1910	26.0	25.6	24.2	22.6	26.4	26.0	24.6	23.0
WCDMA	850 (Band V)		1	826 – 847	23.5				23.9			
WCDMA	1700/2100 (Band IV)		1	1712 – 1753	23.5				23.9			
WCDMA	1900 (Band II)		1	1852 – 1908	23.0				23.4			
HSUPA	850 (Band V)		1	826 – 847	See Appendix D for details							
HSUPA	1700/2100 (Band IV)		1	1712 – 1753	See Appendix D for details							
HSUPA	1900 (Band II)		1	1852 – 1908	See Appendix D for details							
LTE	700 (Band XVII)	QPSK / 16QAM	1	704 – 716	23.0				23.4			
LTE	850 (Band 5)	QPSK / 16QAM	1	824 – 849	23.0				23.4			
LTE	1700/2100 (Band 4)	QPSK / 16QAM	1	1710 – 1755	23.0				23.4			
LTE	1900 (Band 2)	QPSK / 16QAM	1	1850 – 1910	22.5				22.9			
LTE	2500 (Band 7)	QPSK / 16QAM	1	2500 – 2570	22.0				22.4			
BT	2450	GFSK	1	2402 – 2480	10.0				11.5			
					Ch 1	Ch 2-10	Ch 11		Ch 1	Ch 2-10	Ch 11	
WLAN b-mode	2450	BPSK	1	2412 – 2472	16.0	16.0	16.0		17.5	17.5		17.5
WLAN g-mode	2450	OFDM	1	2412 – 2472	13.0	16.0	11.0		14.5	17.5		12.5
WLAN n-mode	2450	OFDM	1	2412 – 2462 2412 – 2472	13.0	16.0	11.0		14.5	17.5		12.5

Outside of USA and Canada, the transmitter of the device is capable of operating also in GSM/GPRS/EGPRS900, GSM/GPRS/EGPRS1800 and WCDMA/HSUPA2100 bands which are not part of this filing.

This device has Voice-over-IP/Dual Transfer Mode capability for use at the ear. Therefore, SAR for multi slot GPRS mode was evaluated against the head profile of the phantom. Dual Transfer Mode is a feature that utilises the multi-slot GPRS capability in this device; it allows simultaneous transmission of voice and data during the same call, using the same transmitter and antenna.

This device has also HSUPA capabilities in all WCDMA bands listed above. HSUPA target powers are always lower than or equal to the corresponding WCDMA target power listed above, details of the HSUPA MPR scheme, power targets and power results can be found in Appendix D. This is a WCDMA HSUPA device, but SAR tests for HSUPA mode have not been performed as no HSUPA Sub-test mode has an average power > 0.25dB above the basic WCDMA 12.2kbps RMC mode. Appendix C of this report gives a summary of the measured WCDMA and HSUPA average powers; a detailed report of these WCDMA and HSUPA conducted power tests is submitted separately.

This is an LTE Category 3 device; it contains five LTE bands, namely LTE bands 700, 850, 1700/2100, 1900 and 2500. In LTE700(Band 17), the device possesses Channel Bandwidths of 10MHz and 5MHz; in LTE850(Band 5), the device possesses Channel Bandwidths of 10MHz, 5MHz, 3MHz and 1.4MHz; in LTE1700/2100(Band 4) and in LTE1900(Band 2), the device possesses Channel Bandwidths of 20MHz, 15MHz, 10MHz, 5MHz, 3MHz and 1.4MHz; in LTE2500(Band 7) Channel Bandwidths of 20MHz, 15MHz, 10MHz and 5MHz are available.

This is a BT Class 1 device and its power tuning target upper limit is 11.5dBm. WLAN2450 power tuning target upper limit is 17.5dBm. Since WLAN2450 and BT use same frequency and antenna, WLAN2450 power is 6.0dB higher, and they cannot transmit simultaneously, the WLAN2450 standalone SAR is conservative estimation of BT SAR. As WLAN2450 SAR result is below limit, also BT SAR can be deemed to comply without further analysis or standalone measurements. Also WLAN2450+cellular bands combined SAR results can be regarded as conservative estimation of BT+cellular combined SARs. As WLAN2450+cellular combined SAR result are below limit, also BT+cellular combined SAR can be deemed to comply without further analysis and estimations required in KDB 447498 for simultaneous transmission exclusion.

This device has Wireless Router "Hotspot" mode capability.

Two antennas are used for transmission of some of the cellular bands in diversity-Tx mode. In this mode the antennas can not transmit at the same time. See table below for applicable antennas in each transmission band and mode. A separate single antenna is used for WLAN. All antennas are fully and separately SAR tested for individual transmission. Simultaneous transmissions with WLAN2450 are assessed separately for both cellular antennas.

	Tx Antennas	
	Antenna 1	Antenna 2
GSM/GPRS/EGPRS850	-	✓
GSM/GPRS/EGPRS1900	✓	-
WCDMA850 (Band 5)	✓	✓
WCDMA1700 (Band 4)	✓	✓
WCDMA1900 (Band 2)	✓	✓
LTE1900 (Band 2)	✓	✓
LTE1700 (Band 4)	✓	✓
LTE850 (Band 5)	✓	✓
LTE 700(Band 17)	✓	✓
LTE2500 (Band 7)	-	✓

Simultaneous transmission of any singular cellular, AWS and PCS band is possible with WLAN in Head, Body-worn and Wireless router use according to the table below.

Simultaneous transmission capabilities in Head, Body-worn and Wireless Router use	
	WLAN2450
GSM/GPRS/EGPRS850	✓
GSM/GPRS/EGPRS1900	✓
WCDMA850 (Band 5)	✓
WCDMA1700 (Band 4)	✓
WCDMA1900 (Band 2)	✓
LTE1900 (Band 2)	✓
LTE1700 (Band 4)	✓
LTE850 (Band 5)	✓
LTE 700(Band 17)	✓
LTE2500 (Band 7)	✓

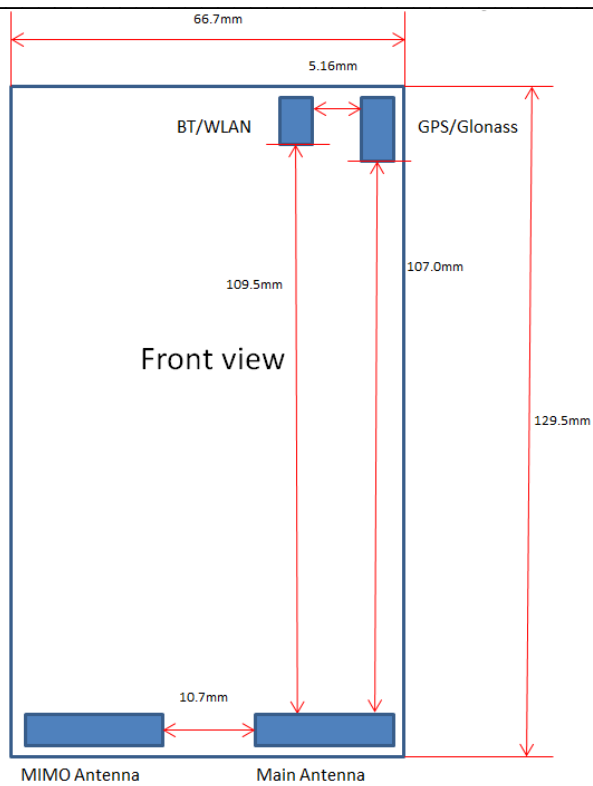
2.1 Power reductions in Wireless Router configurations

The following table details the power reductions active in Wireless Router mode:

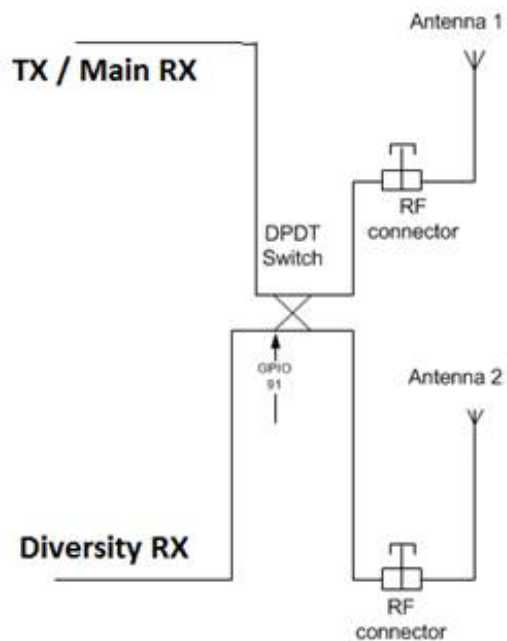
Band	Power reduction in WR mode	Target tuning power in WR mode		
LTE700	0 dB	23.0dBm		
GPRS/EGPRS850	0 dB	1-slot GPRS: 32.2dBm 2-slot GPRS: 29.3dBm 3-slot GPRS: 27.5dBm 4-slot GPRS: 26.3dBm	1-slot EGPRS: 26.0dBm 2-slot EGPRS: 24.5dBm 3-slot EGPRS: 23.0dBm 4-slot EGPRS: 21.5dBm	
WCDMA850	0 dB	23.5dBm		
LTE850	0 dB	23.0dBm		
WCDMA1700/2100	1.5 dB	22.0dBm		
LTE1700/2100	1.5 dB	21.5dBm		
GPRS/EGPRS1900	0 dB	1-slot GPRS: 29.5dBm 2-slot GPRS: 29.0dBm 3-slot GPRS: 27.2dBm 4-slot GPRS: 25.5dBm	1-slot EGPRS: 26.0dBm 2-slot EGPRS: 25.6dBm 3-slot EGPRS: 24.2dBm 4-slot EGPRS: 22.6dBm	
WCDMA1900	1.5 dB	21.5dBm		
LTE1900	1.5 dB	21.0dBm		
LTE2500 (QPSK)	1.5 dB	20.5dBm		
WLAN2450 b-mode (DSSS 1 Mbps)	0 dB	Ch 1: 16.0dBm	Ch 2-10: 16.0dBm	Ch 11: 16.0dBm
WLAN2450 g-mode (OFDM 6 Mbps)	0 dB	Ch 1: 13.0dBm	Ch 2-10: 16.0dBm	Ch 11: 11.0dBm
WLAN2450 n-mode (MCS 0 – OFDM 6.5 Mbps)	0 dB	Ch 1: 13.0dBm	Ch 2-10: 16.0dBm	Ch 11: 11.0dBm

2.2 Description of the Antenna

The device has 2 separate internal antennas for cellular, AWS and PCS use and one internal antenna for WLAN use. The cellular antenna 1 is located at the near right bottom underneath the back cover and cellular antenna 2 is located at the near left bottom underneath the back cover. The WLAN antenna is located at the top underneath the back cover.



Schematics showing Tx and Rx circuitry, antenna switch, conducted ports and antenna.



3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.5 – 22.5
Ambient humidity (RH %):	35 - 55

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester except for testing WLAN2450 where control software was used. Communication between the device and the call tester was established by air link.

The conducted output power of the device was measured by a separate test laboratory on the same unit(s) as used for SAR testing. The results are given in the appendixes G-J of this report.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

In all operating bands the measurements were performed on lowest, middle and highest channels, and/or on all required test channels as defined in Published FCC KDB Procedures.

The number of Tx slots in all GSM/GPRS mode tests was based on tuning target/conducted power data, see Appendix H. The number of slots with highest or equal highest time-average power was tested.

The transmission mode of the device in all WCDMA tests was configured to 12.2kbps RMC with all TPC bits set as “1”. All WCDMA testing has been carried out in accordance with FCC KDB 941225: SAR Measurement Procedures for 3G Devices.

The transmission mode of the device in all WLAN b-mode tests was BPSK 1Mbps. Additionally in WLAN n-mode QPSK 26.0/28.9Mbps was used for check measurements. These modes have the highest time-averaged output power of all the WLAN a, b, g and n modulation modes in this device as illustrated in table in Appendix J. All WLAN testing has been carried out in accordance with FCC KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters.

LTE band has been tested according to the guidance given in KDB941225 D05 SAR for LTE Devices v01. MPR values as stipulated in Table 6.2.3_1 of 3GPP TS 36.101 (presented below) have been incorporated into the device; these MPR values are dependent on the modulation, Channel Bandwidth and Resource Block allocations as shown:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

No additional MPR settings have been incorporated into the design of the device and therefore no A-MPR settings have been active during its testing.

Here is a summary list of the KDB documents used in the reported testing:

KDB941225 D05 SAR for LTE Devices v02r02 DR07-41372
KDB 941225 D01 SAR Measurement Procedures for 3G Devices
KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters
KDB 648474 D04 SAR Handsets Multi Xmitter and Ant v01
KDB 941225 D06 v01 Hot Spot SAR
KDB 447498 D01 General RF Exposure Guidance v05
KDB 690783 D01 SAR Listings on Grants
KDB 865664 D01 SAR Measurements 100MHz to 6GHz v01
KDB 865664 D02 SAR Reporting v01

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated DASY near-field scanning system manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration date	Calibration expiry
DAE4	756	2014-01	2015-01
DAE4	1301	2014-01	2015-01
DAE4	1332	2014-01	2015-01
ES3DV3	3275	2014-01	2015-01
EX3DV4	3817	2014-01	2015-01
ES3DV3	3112	2014-01	2015-01
Dipole Validation Kit, D750V3	1010	2013-03	2015-03
Dipole Validation Kit, D835V2	4d040	2012-09	2014-09
Dipole Validation Kit, D1750V2	1081	2012-12	2014-12
Dipole Validation Kit, D1900V2	5d099	2013-01	2015-01
Dipole Validation Kit, D2450V2	800	2012-09	2014-09
Dipole Validation Kit, D2600V2	1064	2013-07	2015-07
DASY5 software	Version 52.8	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration expiry
Signal Generator	E8247C	MY43321016	2012-07	2014-07
Signal Generator	N5181B	MY51350034	2013-06	2016-06
Signal Generator	E8257C	MY43350540	2013-06	2015-06
Amplifier	ZHL-1000-3W	15542	-	-
Amplifier	ZYE-8G+	N811401219	-	-
Amplifier	KM0822-8R	981441	-	-
Power Meter	E4419B	GB3920697	2013-07	2015-07
Power Meter	E4419B	GB40202156	2013-07	2015-07
Power Meter	E4417A	GB41291021	2013-04	2015-04
Power Sensor	8482H	3318A06406	2013-07	2014-07
Power Sensor	E4412A	US38484674	2013-07	2014-07
Power Sensor	8481H	MY41090586	2013-07	2014-07
Power Sensor	E9301A	US39211864	2013-07	2014-07
Power Sensor	E9325A	US40420196	2014-03	2015-03
Power Sensor	E9325A	US40420191	2014-02	2015-02
Call Tester	CMU 200	100925	2014-01	2015-01
Call Tester	E5515C	GB42230195	2013-04	2015-04
Call Tester	CMU 200	100304	2014-01	2015-01
Call Tester	E5515C	GB42230129	2013-01	2015-01
Call Tester	CMW500	136294-CF	2014-01	2015-01
Call Tester	CMU 200	114271	2012-10	2014-10
Network Analyzer	ENA E5071C	MY46315958	2013-07	2014-07
Dielectric Probe Kit	DAK-3.5	1064	2013-10	2015-10
Spectrum Analyzer	9kHz-7GHz	100084	2013-05	2014-05

4.1.1 Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to 4 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 20 mm Body diameter: 12 mm Tip diameter: 3.9 mm Distance from probe tip to dipole centers: 2.0 mm
Application	General dosimetry up to 4 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.1.2 Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to >6 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g, Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 10 mm Body diameter: 12 mm Tip diameter: 2.5 mm Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 6 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.3 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 and FCC published RF Exposure KDB Procedures. All tests were carried out using simulants whose dielectric parameters were within $\pm 5\%$ of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was at least 15.0 cm measured from the ear reference point during system checking and device measurements.

4.3.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue simulant(s):

700MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	52.13	69.23
Tween 20	46.59	29.56
Salt	1.28	1.21

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	51.50	69.25
Tween 20	47.35	30.00
Salt	1.15	0.75

1800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.0	70.20
Tween 20	45.6	29.37
Salt	0.4	0.43

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.50	70.25
Tween 20	45.23	29.41
Salt	0.27	0.34

2450MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	56.0	70.20
Tween 20	44.0	29.62
Salt	-	0.18

4.4 System validation and System checking

4.4.1 System validation status

Probe Calibration Point f / MHz	Test System	DASY SW	Dipole Type / SN	Probe Type / SN	Calibrated signal type(s)	DAE unit Type / SN	Validation done	
							Head tissue simulant	Body tissue simulant
750	TCC San Diego / SAR-2	V52.8	D750V3 / 1010	ES3DV3 / 3275	CW	DAE4 / 756	2014-02	2014-02
835	TCC San Diego / SAR-2	V52.8	D835V2 / 4d040	ES3DV3 / 3275	CW	DAE4 / 756	2014-01	2014-02
1750	TCC San Diego / SAR-4	V52.8	D1750V3 / 1081	ES3DV3 / 3112	CW / LTEFDD	DAE4 / 1332	2014-03	2014-04
1900	TCC San Diego / SAR-4	V52.8	D1900V2 / 5d099	ES3DV3 / 3112	CW	DAE4 / 1332	2014-02	2014-04
2450	TCC San Diego / SAR-3	V52.8	D2450V2 / 800	EX3DV4 / 3817	CW	DAE4 / 1301	2014-03	2014-04
2600	TCC San Diego / SAR-2	V52.8	D2600V3 / 1064	ES3DV3 / 3275	CW / LTETDD	DAE4 / 756	2014-04	2014-04

4.4.2 System checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom for head system

checking, and under the flat phantom for body system checking. The system checking results (dielectric parameters and SAR values) are given in the table below.

System checking, head tissue simulant

f [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Deviation	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters*		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Temp [°C]	Plot #
				dSAR [%]		ϵ_r	σ [S/m]		d ϵ_r [%]	d σ [%]		
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result SN:1010	-	-	-	8.50	41.9	0.89	TCC San Diego/SAR-2 ES3DV3 SN:3275 Head 750MHz				
	2014-04-11	2.27	2.31	1.76	9.08	40.5	0.88	6.82	-3.34	-1.12	21.5	1
835	Target result SN:4d040	-	-	-	9.49	41.5	0.90	TCC San Diego/SAR-2 ES3DV3 SN:3275 Head 835MHz				
	2014-04-08	2.55	2.58	1.18	10.20	40.2	0.88	7.48	-3.13	-2.22	21.5	-
	2014-04-09	2.57	2.62	1.95	10.28	40.3	0.89	8.32	-2.89	-1.11	21.5	-
	2014-04-10	2.59	2.63	1.54	10.36	40.3	0.89	9.17	-2.89	-1.11	21.5	2
1750	Target result SN:1081	-	-	-	36.5	40.1	1.37	TCC San Diego/SAR-1 ES3DV3 SN:3112 Head 1750MHz				
	2014-04-10	9.05	9.25	2.21	36.20	40.0	1.36	-0.82	-0.25	-0.73	21.5	-
	2014-04-11	9.32	9.51	2.04	37.28	40.4	1.35	2.14	0.75	-1.46	21.5	3
1900	Target result SN:5d099	-	-	-	40.6	40.0	1.40	TCC San Diego/SAR-1 ES3DV3 SN:3112 Head 1900MHz				
	2014-04-08	10.50	10.70	1.90	42.00	38.6	1.40	3.45	-3.50	0.00	21.5	4
	2014-04-09	10.30	10.60	2.91	41.20	38.7	1.39	1.48	-3.25	-0.71	21.5	-
	2014-04-10	10.20	10.40	1.96	40.80	38.4	1.40	0.49	-4.00	0.00	21.5	-
	2014-04-24	9.89	9.99	1.00	39.56	39.4	1.39	-2.56	-1.50	-0.71	21.5	-
2450	Target result SN:800	-	-	-	53.2	39.2	1.80	TCC San Diego/SAR-1 EX3DV4 SN:3817 Head 2450MHz				
	2014-04-08	13.90	13.90	0.00	55.60	38.4	1.81	4.51	-2.04	0.56	21.5	5
2600	Target result SN:1064	-	-	-	58.4	39.0	1.96	TCC San Diego/SAR-2 ES3DV3 SN:3275 Head 2600MHz				
	2014-04-14	15.10	15.50	2.65	60.40	37.4	1.96	3.42	-4.10	0.00	21.5	6

* Dielectric parameter reference data taken from IEEE1528/IEC62209

System checking, body tissue simulant

f [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Deviation	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters*		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Tem p	Plot #
				dSAR [%]		ϵ_r	σ [S/m]	dSAR [%]	d ϵ_r [%]	d σ [%]	[°C]	
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result SN:1010	-	-	-	8.68	55.5	0.96	TCC San Diego/SAR-2 ES3DV3 SN:3275 Body 835MHz				
	2014-04-18	2.26	2.27	0.44	9.04	54.4	0.94	2.26	-1.98	-2.08	21.5	7
835	Target result SN:4d040	-	-	-	9.50	55.2	0.97	TCC San Diego/SAR-2 ES3DV3 SN:3275 Body 835MHz				
	2014-04-16	2.43	2.46	1.23	9.72	53.5	0.97	2.32	-3.08	0.00	21.5	-
	2014-04-17	2.38	2.40	0.84	9.52	53.6	0.97	0.21	-2.90	0.00	21.5	-
	2014-04-18	2.51	2.54	1.20	10.04	53.3	0.97	5.68	-3.44	0.00	21.5	-
	2014-04-21	2.21	2.22	0.45	8.84	53.3	0.98	-6.95	-3.44	1.03	21.5	8
1750	Target result SN:1081	-	-	-	37.3	53.4	1.49	TCC San Diego/SAR-1 ES3DV3 SN:3112 Body 1750MHz				
	2014-04-16	9.22	9.31	0.98	36.88	53.1	1.43	-1.13	-0.56	-4.03	21.5	9
	2014-04-17	9.38	9.49	1.17	37.52	53.0	1.45	0.59	-0.75	-2.68	21.5	-
1900	Target result SN:5d099	-	-	-	41.0	53.3	1.52	TCC San Diego/SAR-1 ES3DV3 SN:3112 Body 1750MHz				
	2014-04-12	9.98	9.91	-0.70	39.92	52.2	1.48	-2.63	-2.06	-2.63	21.5	10
	2014-04-14	10.00	9.99	-0.10	40.00	52.6	1.48	-2.44	-1.31	-2.63	21.5	-
	2014-04-24	10.00	10.00	0.00	40.00	52.2	1.48	-2.44	-2.06	-2.63	21.5	-
2450	Target result SN:800	-	-	-	50.9	52.7	1.95	TCC San Diego/SAR-1 EX3DV4 SN:3817 Body 2450MHz				
	2014-04-10	13.00	13.00	0.00	52.00	53.0	1.89	2.16	0.57	-3.08	21.5	-
	2014-04-11	13.10	13.00	-0.76	52.40	53.4	1.89	2.95	1.33	-3.08	21.5	11
2600	Target result SN:1064	-	-	-	56.5	52.5	2.16	TCC San Diego/SAR-1 ES3DV3 SN:3275 Body 2600MHz				
	2014-04-15	14.10	14.30	1.42	56.40	53.1	2.08	-0.18	1.14	-3.70	21.5	-
	2014-04-16	14.20	14.50	2.11	56.80	53.1	2.09	0.53	1.14	-3.24	21.5	12

* Dielectric parameter reference data taken from FCC Published RF Exposure KDB Procedures

Plots of the system checking scans are given in Appendix A.

4.5 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Dielectric Parameters Deviation from recommended value		Temp [°C]
		ϵ_r	σ [S/m]	$d\epsilon_r$ [%]	$d\sigma$ [%]	
	Tolerances			± 5 %	± 5 %	
710	Recommended value	41.8	0.90			
	2014-04-11	40.7	0.86	-3.33	-3.37	21.5
835	Recommended value	41.5	0.90			
	2014-04-08	40.2	0.88	-3.13	-2.22	21.5
	2014-04-09	40.3	0.89	-2.89	-1.11	21.5
	2014-04-10	40.3	0.89	-2.89	-1.11	21.5
836	Recommended value	41.5	0.90			
	2014-04-08	40.2	0.88	-3.13	-2.22	21.5
	2014-04-09	40.3	0.89	-2.89	-1.11	21.5
	2014-04-10	40.3	0.89	-2.89	-1.11	21.5
1732	Recommended value	40.1	1.36			
	2014-04-10	40.1	1.34	0.00	-1.47	21.5
	2014-04-11	40.5	1.34	1.00	-1.47	21.5
1880	Recommended value	40.0	1.40			
	2014-04-08	38.6	1.38	-3.50	-1.43	21.5
	2014-04-09	38.8	1.38	-3.00	-1.43	21.5
	2014-04-10	38.5	1.38	-3.75	-1.43	21.5
	2014-04-24	39.4	1.38	-1.50	-1.43	21.5
2437	Recommended value	39.2	1.79			
	2014-04-08	38.4	1.80	-2.04	0.56	21.5
2535	Recommended value	39.1	1.89			
	2014-04-14	37.6	1.89	-3.84	0.00	21.5

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Dielectric Parameters Deviation from Recommended value		Temp [°C]
		ϵ_r	σ [S/m]	$d\epsilon_r$ [%]	$d\sigma$ [%]	
	Tolerances			±5 %	±5 %	
710	Recommended value	55.4	0.97			
	2014-04-18	54.6	0.92	-1.97	-4.17	21.5
835	Recommended value	55.2	0.97			
	2014-04-16	53.5	0.97	-3.08	0.00	21.5
	2014-04-17	53.6	0.97	-2.90	0.00	21.5
	2014-04-18	53.3	0.97	-3.44	0.00	21.5
	2014-04-21	53.3	0.98	-3.44	1.03	21.5
836	Recommended value	55.2	0.97			
	2014-04-16	53.5	0.97	-3.08	0.00	21.5
	2014-04-17	53.5	0.97	-3.08	0.00	21.5
	2014-04-18	53.3	0.97	-3.44	0.00	21.5
	2014-04-21	53.3	0.98	-3.44	1.03	21.5
1732	Recommended value	53.5	1.48			
	2014-04-16	53.1	1.42	-0.75	-4.05	21.5
	2014-04-17	53.0	1.43	-0.93	-3.38	21.5
1880	Recommended value	53.3	1.52			
	2014-04-12	52.3	1.45	-1.88	-4.61	21.5
	2014-04-14	52.7	1.46	-1.13	-3.95	21.5
	2014-04-24	52.2	1.46	-2.06	-3.95	21.5
2437	Recommended value	52.7	1.94			
	2014-04-10	53.1	1.87	0.76	-3.61	21.5
	2014-04-11	53.5	1.88	1.52	-3.09	21.5
2535	Recommended value	52.6	2.07			
	2014-04-15	53.2	2.00	1.14	-3.38	21.5
	2014-04-16	53.3	2.00	1.33	-3.38	21.5

Dielectric parameter data for the band edges is given in Appendix C.

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

A Nokia designed spacer (illustrated below) was used to position the device within the SPEAG holder. The spacer positions the device so that the holder has minimal effect on the test results but still holds the device securely. The spacer was removed before the tests.



Nokia spacer

5.2 Test Positions

5.2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".

5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Nokia spacer and placed below the flat phantom. The distance between the device and the phantom was kept at the separation distance indicated in Section 1.2.2 using a separate flat spacer that was removed before the

start of the measurements. The device was oriented with both sides facing the phantom to find the highest results.

5.2.3 Wireless Router Configuration

The device was placed in the SPEAG holder and, in sequence, the back, display and each of the 4 edges was positioned 10.0mm away from the flat phantom. The spacer was removed before the start of the measurements.

5.3 Scan Procedures

First, area scans were used for determination of the field distribution. Next, a zoom scan, a minimum of 5x5x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan. Fast SAR is measured according to the KDB 447498 D01 General RF Exposure Guidance v05r01.

5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

6. MEASUREMENT UNCERTAINTY

Table 6.1 – Measurement uncertainty evaluation for 1g Full SAR in 0.3-6GHz range

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	C_i	$C_i \cdot U_i$ (%)	V_i
Measurement System							
Probe Calibration	E2.1	±6.6	N	1	1	±6.6	∞
Axial Isotropy	E2.2	±4.7	R	√3	$(1-c_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	E2.2	±9.6	R	√3	$(c_p)^{1/2}$	±3.9	∞
Boundary Effect	E2.3	±2.0	R	√3	1	±1.2	∞
Linearity	E2.4	±4.7	R	√3	1	±2.7	∞
System Detection Limits	E2.5	±1.0	R	√3	1	±0.6	∞
Modulation response	E2.5	±2.4	R	√3	1	±1.4	
Readout Electronics	E2.6	±0.3	N	1	1	±0.3	∞
Response Time	E2.7	±0.8	R	√3	1	±0.5	∞
Integration Time	E2.8	±2.6	R	√3	1	±1.5	∞
RF Ambient Conditions - Noise	E6.1	±3.0	R	√3	1	±1.7	∞
RF Ambient Conditions - Reflections	E6.1	±3.0	R	√3	1	±1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	±0.8	R	√3	1	±0.5	∞
Probe Positioning with respect to Phantom Shell	E6.3	±6.7	R	√3	1	±3.9	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	±4.0	R	√3	1	±2.3	∞
Test sample Related							
Test Sample Positioning	E4.2	±6.0	N	1	1	±6.0	11
Device Holder Uncertainty	E4.1	±3.6	N	1	1	±3.6	5
Output Power Variation - SAR drift measurement	E2.9	±5.0	R	√3	1	±2.9	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	±6.6	R	√3	1	±3.8	∞
SAR correction	E3.2	±1.9	R	√3	1	±1.1	∞
Conductivity Target - tolerance	E3.4	±5.0	R	√3	0.6	±1.8	∞
Conductivity - measurement uncertainty	E3.3	±5.5	N	1	0.6	±3.5	5
Permittivity Target - tolerance	E3.4	±5.0	R	√3	0.6	±1.7	∞
Permittivity - measurement uncertainty	E3.3	±2.9	N	1	0.6	±1.7	5
Combined Standard Uncertainty			RSS			±14.0	198
Coverage Factor for 95%			k=2				
Expanded Uncertainty						±28.2	

Table 6.2 – Measurement uncertainty evaluation for 1g Fast SAR in 0.3-6GHz range

Relative DASYS Uncertainty Budget for Fast SAR Tests According to IEEE 1528/2011 and IEC 62209-1/2011 (0.3-6 GHz range)						
Uncertainty Component	Tol. (%)	Prob Dist.	Div.	C_i	$C_i \cdot U_i$ (%)	V_i
Measurement System						
Probe Calibration	±6.6	N	1	0		
Axial Isotropy	±4.7	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	±9.6	R	$\sqrt{3}$	$(C_p)^{1/2}$	±3.9	∞
Boundary Effect	±2.0	R	$\sqrt{3}$	1	±1.2	∞
Linearity	±4.7	R	$\sqrt{3}$	1	±2.7	∞
System Detection Limits	±1.0	R	$\sqrt{3}$	1	±0.6	∞
Modulation Response	±2.4	R	$\sqrt{3}$	1	±1.4	∞
Readout Electronics	±0.3	N	1	0		
Response Time	±0.8	R	$\sqrt{3}$	0		
Integration Time	±2.6	R	$\sqrt{3}$	1	±1.5	∞
RF Ambient Conditions - Noise	±3.0	R	$\sqrt{3}$	1	±1.7	∞
RF Ambient Conditions - Reflections	±3.0	R	$\sqrt{3}$	0		
Probe Positioner Mechanical Tolerance	±0.8	R	$\sqrt{3}$	1	±0.5	∞
Probe Positioning with respect to Phantom Shell	±6.7	R	$\sqrt{3}$	1	±3.9	∞
Spatial x-y Resolution	±10.0	R	$\sqrt{3}$	1	±5.8	∞
Fast SAR z Approximation	±14.0	R	$\sqrt{3}$	1	±8.1	∞
Test sample Related						
Test Sample Positioning	±6.0	N	1	1	±6.0	12
Device Holder Uncertainty	±3.6	N	1	1	±3.6	5
Output Power Variation - SAR drift measurement	±5.0	R	$\sqrt{3}$	1	±2.9	∞
Power Scaling	±0	R	$\sqrt{3}$	0		
Phantom and Setup						
Phantom Uncertainty (shape and thickness tolerances)	±6.6	R	$\sqrt{3}$	1	±3.8	∞
SAR correction	±1.9	R	$\sqrt{3}$	0		
Conductivity Target - tolerance	±1.9	R	$\sqrt{3}$	0		
Conductivity - measurement uncertainty	±5.0	R	$\sqrt{3}$	0		
Permittivity Target - tolerance	±5.5	N	1	0		
Permittivity - measurement uncertainty	±5.0	R	$\sqrt{3}$	0		
Combined Standard Uncertainty		RSS			±14.9	748
Coverage Factor for 95%		k=2				
Expanded Uncertainty					±29.8	

7. RESULTS

7.1 The measured Head SAR values for the test device are tabulated below:

LTE700 (Band 17) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.8	22.8	22.8	0.6	0.6	0.6	dB	
	Time-averaged Power [dBm]		22.8	22.8	22.8	1.15	1.15	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.8	0.5	0.5	0.6	dB	
	Time-averaged Power [dBm]		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	23.0	22.9	0.5	0.4	0.5	dB	
	Time-averaged Power [dBm]		22.9	23.0	22.9	1.12	1.10	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.081	-	-	0.088	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.050	-	-	0.055	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.125	-	-	0.137	-	0.01	-
		Full SAR	-	0.138	-	-	0.151	-		
	Right Tilt	Estimated SAR	-	0.067	-	-	0.074	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Right Cheek	Estimated SAR	-	0.123	-	-	0.135	-	0.01	-
		Full SAR	-	0.129	-	-	0.141	-		

(LTE700 (Band 17) Head SAR / Antenna 1 Table continues)

(LTE700 (Band 17) Head SAR / Antenna 1 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.9	21.9	21.9	0.5	0.5	0.5	dB	
	Time-averaged Power [dBm]		21.9	21.9	21.9	1.12	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
	Left Cheek	Estimated SAR	0.082	-	-	0.090	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	0.048	-	-	0.053	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.122	-	-	0.134	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	0.069	-	-	0.075	-	-	-	-
Full SAR		-	-	-	-	-	-			
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE700 (Band 17) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.6	22.6	22.6	0.8	0.8	0.8	dB	
	Time-averaged Power [dBm]		22.6	22.6	22.6	1.20	1.20	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.7	0.7	0.8	dB	
	Time-averaged Power [dBm]		22.7	22.7	22.6	1.17	1.17	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.8	22.7	0.7	0.6	0.7	dB	
	Time-averaged Power [dBm]		22.7	22.8	22.7	1.17	1.15	1.17	Lin	
	Left Cheek	Estimated SAR	-	0.344	-	-	0.395	-	0.00	1
		Full SAR	-	0.342	-	-	0.393	-		
	Left Tilt	Estimated SAR	-	0.173	-	-	0.199	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.289	-	-	0.332	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.212	-	-	0.243	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	-	0.315	-	-	0.362	-	0.01	-
Full SAR		-	0.324	-	-	0.372	-			
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]					Scaling factor*				
	Conducted Power [dBm]								dB	
	Time-averaged Power [dBm]								Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE700 (Band 17) Head SAR / Antenna 2 Table continues)

(LTE700 (Band 17) Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
	Left Cheek	Estimated SAR	0.283	-	-	0.325	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	0.149	-	-	0.171	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.227	-	-	0.261	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	0.165	-	-	0.189	-	-	-	-
Full SAR		-	-	-	-	-	-			
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	1.6	1.7	1.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.45	1.48	1.48	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

GSM/GPRS/EGPRS/WCDMA850MHz Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		32.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		31.7	31.9	31.9	0.9	0.7	0.7	dB	
	Time-averaged power [dBm]		22.7	22.9	22.9	1.23	1.17	1.17	Lin	
			No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]		29.7			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.2	29.4	29.4	0.5	0.3	0.3	dB	
	Time-averaged power [dBm]		23.2	23.4	23.4	1.12	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	0.549	0.426	0.431	0.616	0.456	0.462	0.02	-
		Full SAR	0.530	-	-	0.595	-	-		
	Left Tilt	Estimated SAR	-	0.345	-	-	0.370	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.353	-	-	0.378	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.296	-	-	0.317	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.634	0.546	0.484	0.711	0.585	0.519	0.05	2
Full SAR		0.583	-	-	0.654	-	-			
3-slot GPRS	Tuning Target + Tolerance [dBm]		27.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.1	27.4	27.4	0.8	0.5	0.5	dB	
	Time-averaged power [dBm]		22.8	23.1	23.1	1.20	1.12	1.12	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		26.7			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.8	26.0	25.9	0.9	0.7	0.8	dB	
	Time-averaged power [dBm]		22.8	23.0	22.9	1.23	1.17	1.20	Lin	
			No testing required for this slot configuration.							
1-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		26.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.7	25.8	25.9	0.7	0.6	0.5	dB	
	Time-averaged power [dBm]		16.7	16.8	16.9	1.17	1.15	1.12	Lin	
			No testing required for this slot configuration.							
2-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		24.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.6	24.7	24.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		18.6	18.7	18.7	1.07	1.05	1.05	Lin	
	Left Cheek	Estimated SAR	0.165	-	-	0.177	-	-	-	-
		Full SAR	-	-	-	-	-	-		

(GSM/GPRS/EGPRS/WCDMA850MHz Head SAR / Antenna 2 Table continues)

(GSM/GPRS/EGPRS/WCDMA850MHz Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
3-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		22.8	22.8	22.9	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		18.5	18.5	18.6	1.15	1.15	1.12	Lin	
			No testing required for this slot configuration.							
4-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		21.3	21.6	21.5	0.6	0.3	0.4	dB	
	Time-averaged power [dBm]		18.3	18.6	18.5	1.15	1.07	1.10	Lin	
			No testing required for this slot configuration.							
Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	23.2	0.8	0.8	0.7	dB	
	Time-averaged power [dBm]		23.1	23.1	23.2	1.20	1.20	1.17	Lin	
	Left Cheek	Estimated SAR	0.564	0.536	0.528	0.678	0.644	0.620	0.00	-
		Full SAR	0.562	-	-	0.676	-	-		
	Left Tilt	Estimated SAR	-	0.408	-	-	0.491	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.408	-	-	0.491	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.305	-	-	0.367	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.606	0.591	0.578	0.729	0.711	0.679	0.02	3
		Full SAR	0.582	-	-	0.700	-	-		

WCDMA850 (Band 5) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132	Ch 4175	Ch 4233	Ch 4132	Ch 4175	Ch 4233		
			826.4 MHz	835.0 MHz	846.6 MHz	826.4 MHz	835.0 MHz	846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.3	23.3	23.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		23.3	23.3	23.4	1.15	1.15	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.102	-	-	0.117	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.086	-	-	0.099	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.154	0.166	0.232	0.177	0.191	0.260	0.01	-
		Full SAR	-	-	0.225	-	-	0.252		
	Right Tilt	Estimated SAR	-	0.097	-	-	0.111	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Right Cheek	Estimated SAR	0.158	0.150	0.188	0.181	0.172	0.211	0.01	-
		Full SAR	-	-	0.175	-	-	0.196		

LTE850 (Band 5) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.265	-	-	0.297	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.232	-	-	0.260	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.321	-	-	0.360	-	0.01	-
		Full SAR	-	0.334	-	-	0.375	-		
	Right Tilt	Estimated SAR	-	0.236	-	-	0.265	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Right Cheek	Estimated SAR	-	0.308	-	-	0.346	-	0.01	-
		Full SAR	-	0.320	-	-	0.359	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.8	0.5	0.5	0.6	dB	
	Time-averaged Power [dBm]		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
	Left Cheek	Estimated SAR	0.232	-	-	0.254	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	0.194	-	-	0.213	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.293	-	-	0.321	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	0.199	-	-	0.218	-	-	-	-
		Full SAR	-	-	-	-	-	-		

(LTE850 (Band 5) Head SAR / Antenna 1 Table continues)

(LTE850 (Band 5) Head SAR / Antenna 1 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged Power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	22.0	22.0	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		22.0	22.0	22.0	1.10	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE850 (Band5) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.7	0.7	0.7	0.7	dB	
	Time-averaged Power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin	
	Left Cheek	Estimated SAR	-	0.322	-	-	0.378	-	0.04	-
		Full SAR	-	0.345	-	-	0.405	-		
	Left Tilt	Estimated SAR	-	0.215	-	-	0.253	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.262	-	-	0.308	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.173	-	-	0.203	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	-	0.408	-	-	0.479	-	0.04	4
		Full SAR	-	0.396	-	-	0.465	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.7	0.7	0.7	0.7	dB	
	Time-averaged Power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.7	0.7	0.8	dB	
	Time-averaged Power [dBm]		22.7	22.7	22.6	1.17	1.17	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
	Left Cheek	Estimated SAR	0.314	-	-	0.361	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	0.202	-	-	0.232	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.247	-	-	0.284	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	0.182	-	-	0.209	-	-	-	-
		Full SAR	-	-	-	-	-	-		

(LTE850 (Band 5) Head SAR / Antenna 2 Table continues)

(LTE850 (Band 5) Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.8	21.8	0.6	0.6	0.6	dB	
	Time-averaged Power [dBm]		21.8	21.8	21.8	1.15	1.15	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

WCDMA1700/2100 (Band4) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.6	23.6	0.5	0.3	0.3	dB	
	Time-averaged power [dBm]		23.4	23.6	23.6	1.12	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	0.384	0.468	0.510	0.431	0.501	0.546	0.02	-
		Full SAR	-	-	0.532	-	-	0.570		
	Left Tilt	Estimated SAR	-	0.388	-	-	0.416	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.375	-	-	0.402	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.312	-	-	0.334	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.330	0.394	0.441	0.370	0.422	0.473	0.02	-
		Full SAR	-	-	0.459	-	-	0.492		

WCDMA1700/2100 (Band4) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		22.9	23.1	23.1	1.0	0.8	0.8	dB	
	Time-averaged power [dBm]		22.9	23.1	23.1	1.26	1.20	1.20	Lin	
	Left Cheek	Estimated SAR	0.606	0.621	0.629	0.763	0.747	0.756	0.01	-
		Full SAR	0.594	-	-	0.748	-	-		
	Left Tilt	Estimated SAR	-	0.423	-	-	0.509	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.520	-	-	0.625	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.381	-	-	0.458	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.578	0.618	0.608	0.728	0.743	0.731	0.01	5
		Full SAR	-	0.627	-	-	0.754	-		

LTE1700/2100 (Band 4) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.0	23.1	0.3	0.4	0.3	dB	
	Time-averaged Power [dBm]		23.1	23.0	23.1	1.07	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.1	23.0	0.4	0.3	0.4	dB	
	Time-averaged Power [dBm]		23.0	23.1	23.0	1.10	1.07	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	23.1	0.3	0.3	0.3	dB	
	Time-averaged Power [dBm]		23.1	23.1	23.1	1.07	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.430	-	-	0.461	-	0.02	-
		Full SAR	-	0.445	-	-	0.477	-		
	Left Tilt	Estimated SAR	-	0.161	-	-	0.173	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.398	-	-	0.426	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.176	-	-	0.189	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	-	0.411	-	-	0.440	-	0.01	-
Full SAR		-	0.418	-	-	0.448	-			

(LTE1700 (Band 4) Head SAR / Antenna 1 Table continues)

(LTE1700 (Band 4) Head SAR / Antenna 1 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.2	22.2	22.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		22.2	22.2	22.3	1.05	1.05	1.02	Lin	
	Left Cheek	Estimated SAR	-	-	0.364	-	-	0.372	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	-	0.146	-	-	0.149	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	-	0.316	-	-	0.323	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	-	0.145	-	-	0.148	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.1	22.2	22.1	0.3	0.2	0.3	dB	
	Time-averaged Power [dBm]		22.1	22.2	22.1	1.07	1.05	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.2	22.2	22.2	0.2	0.2	0.2	dB	
	Time-averaged Power [dBm]		22.2	22.2	22.2	1.05	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.2	22.2	22.2	0.2	0.2	0.2	dB	
	Time-averaged Power [dBm]		22.2	22.2	22.2	1.05	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1700/2100 (Band 4) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.6	22.5	22.6	0.8	0.9	0.8	dB	
	Time-averaged Power [dBm]		22.6	22.5	22.6	1.20	1.23	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.5	22.6	22.5	0.9	0.8	0.9	dB	
	Time-averaged Power [dBm]		22.5	22.6	22.5	1.23	1.20	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.6	22.6	22.6	0.8	0.8	0.8	dB	
	Time-averaged Power [dBm]		22.6	22.6	22.6	1.20	1.20	1.20	Lin	
	Left Cheek	Estimated SAR	-	0.489	-	-	0.588	-	0.01	-
		Full SAR	-	0.501	-	-	0.602	-		
	Left Tilt	Estimated SAR	-	0.309	-	-	0.371	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.425	-	-	0.511	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.254	-	-	0.305	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	-	0.530	-	-	0.637	-	0.01	6
Full SAR		-	0.536	-	-	0.644	-			

(LTE1700 (Band 4) Head SAR / Antenna 2 Table continues)

(LTE1700 (Band 4) Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.7	21.7	21.8	0.7	0.7	0.6	dB	
	Time-averaged Power [dBm]		21.7	21.7	21.8	1.17	1.17	1.15	Lin	
	Left Cheek	Estimated SAR	-	-	0.538	-	-	0.618	0.02	-
		Full SAR	-	-	0.561	-	-	0.644		
	Left Tilt	Estimated SAR	-	-	0.300	-	-	0.344	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	-	0.449	-	-	0.516	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	-	0.262	-	-	0.301	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Left Cheek	Estimated SAR	-	-	0.543	-	-	0.623	0.02	-	
	Full SAR	-	-	0.558	-	-	0.641			
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.6	21.7	21.6	0.8	0.7	0.8	dB	
	Time-averaged Power [dBm]		21.6	21.7	21.6	1.20	1.17	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.7	21.7	21.7	0.7	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.7	21.7	21.7	1.17	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.7	21.7	21.7	0.7	0.7	0.7	dB	
	Time-averaged Power [dBm]		21.7	21.7	21.7	1.17	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

GSM/GPRS/EGPRS/WCDMA1900MHz Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz	Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		29.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.6	29.6	29.4	0.3	0.3	0.5	dB	
	Time-averaged power [dBm]		20.6	20.6	20.4	1.07	1.07	1.12	Lin	
			No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]		29.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.2	29.1	28.8	0.2	0.3	0.6	dB	
	Time-averaged power [dBm]		23.2	23.1	22.8	1.05	1.07	1.15	Lin	
	Left Cheek	Estimated SAR	0.502	0.495	0.531	0.526	0.530	0.610	0.02	7
		Full SAR	-	-	0.551	-	-	0.633		
	Left Tilt	Estimated SAR	-	0.226	-	-	0.242	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.325	-	-	0.348	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.226	-	-	0.242	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.468	0.521	0.503	0.490	0.558	0.578	0.04	-
Full SAR		-	-	0.541	-	-	0.621			
3-slot GPRS	Tuning Target + Tolerance [dBm]		27.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.3	27.2	27.0	0.3	0.4	0.6	dB	
	Time-averaged power [dBm]		23.0	22.9	22.7	1.07	1.10	1.15	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		25.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.9	25.9	25.7	0.0	0.0	0.2	dB	
	Time-averaged power [dBm]		22.9	22.9	22.7	1.00	1.00	1.05	Lin	
			No testing required for this slot configuration.							
1-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		26.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		26.1	25.9	25.7	0.3	0.5	0.7	dB	
	Time-averaged power [dBm]		17.1	16.9	16.7	1.07	1.12	1.17	Lin	
			No testing required for this slot configuration.							
2-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		26.0			Scaling factor*				
	Conducted Slot Average Power [dBm]		26.0	25.8	25.7	0.0	0.2	0.3	dB	
	Time-averaged power [dBm]		20.0	19.8	19.7	1.00	1.05	1.07	Lin	
			No testing required for this slot configuration.							

(GSM/GPRS/EGPRS/WCDMA1900MHz Head SAR / Antenna 1 Table continues)

(GSM/GPRS/EGPRS/WCDMA1900MHz Head SAR / Antenna 1 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz	Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz		
3-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		24.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.1	24.0	23.8	0.5	0.6	0.8	dB	
	Time-averaged power [dBm]		19.8	19.7	19.5	1.12	1.15	1.20	Lin	
			No testing required for this slot configuration.							
4-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		24.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		23.0	22.9	22.8	0.0	0.1	0.2	dB	
	Time-averaged power [dBm]		20.0	19.9	19.8	1.00	1.02	1.05	Lin	
	Left Cheek	Estimated SAR	-	-	0.228	-	-	0.239	-	-
		Full SAR	-	-	-	-	-	-		
Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	22.9	0.3	0.3	0.5	dB	
	Time-averaged power [dBm]		23.1	23.1	22.9	1.07	1.07	1.12	Lin	
	Left Cheek	Estimated SAR	0.694	0.686	0.681	0.744	0.735	0.764	0.04	-
		Full SAR	0.736	-	0.699	0.789	-	0.784		
	Left Tilt	Estimated SAR	-	0.293	-	-	0.314	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.451	-	-	0.483	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.354	-	-	0.379	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.680	0.695	0.701	0.729	0.745	0.787	0.01	8
		Full SAR	-	-	0.710	-	-	0.797		

WCDMA1900MHz Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.6	22.6	22.4	0.8	0.8	1.0	dB	
	Time-averaged power [dBm]		22.6	22.6	22.4	1.20	1.20	1.26	Lin	
	Left Cheek	Estimated SAR	0.554	0.561	0.604	0.666	0.674	0.760	0.02	-
		Full SAR	-	-	0.622	-	-	0.783		
	Left Tilt	Estimated SAR	-	0.328	-	-	0.394	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.464	-	-	0.558	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.370	-	-	0.445	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.567	0.565	0.596	0.682	0.679	0.750	0.03	-
		Full SAR	-	-	0.626	-	-	0.788		

LTE1900 (Band 2) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.5	22.6	22.6	0.4	0.3	0.3	dB	
	Time-averaged Power [dBm]		22.5	22.6	22.6	1.10	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.276	-	-	0.296	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.181	-	-	0.194	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.538	-	-	0.576	-	0.00	-
		Full SAR	-	0.538	-	-	0.576	-		
	Right Tilt	Estimated SAR	-	0.200	-	-	0.214	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Right Cheek	Estimated SAR	-	0.556	-	-	0.596	-	0.01	-	
	Full SAR	-	0.551	-	-	0.590	-			
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.5	22.5	22.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		22.5	22.5	22.5	1.10	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.4	22.5	22.4	0.5	0.4	0.5	dB	
	Time-averaged Power [dBm]		22.4	22.5	22.4	1.12	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.5	21.5	21.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		21.5	21.5	21.5	1.10	1.10	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.216	-	-	0.237	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.145	-	-	0.159	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.443	-	-	0.486	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.166	-	-	0.182	-	-	-
Full SAR		-	-	-	-	-	-			

(LTE1900 (Band 2) Head SAR / Antenna 1 Table continues)

(LTE1900 (Band 2) Head SAR / Antenna 1 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.5	21.5	21.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		21.5	21.5	21.5	1.10	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.5	21.5	21.3	0.4	0.4	0.6	dB	
	Time-averaged Power [dBm]		21.5	21.5	21.3	1.10	1.10	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.5	21.5	21.4	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		21.5	21.5	21.4	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1900 (Band 2) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.0	22.1	22.1	0.9	0.8	0.8	dB	
	Time-averaged Power [dBm]		22.0	22.1	22.1	1.23	1.20	1.20	Lin	
	Left Cheek	Estimated SAR	0.831	0.827	0.791	1.02	0.994	0.951	0.01	-
		Full SAR	0.841	-	-	1.04	-	-		
	Left Tilt	Estimated SAR	-	0.341	-	-	0.410	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.478	-	-	0.575	-	0.04	-
		Full SAR	-	0.515	-	-	0.619	-		
	Right Tilt	Estimated SAR	-	0.370	-	-	0.445	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.802	0.833	0.767	0.987	1.00	0.92	0.05	9
		Full SAR	-	0.882	-	-	1.06	-		
Repeated SAR CC-3085 Left Cheek	Estimated SAR	-	0.831	-	-	1.00	-	0.03	-	
	Full SAR	-	0.857	-	-	1.03	-			
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.0	22.0	22.0	0.9	0.9	0.9	dB	
	Time-averaged Power [dBm]		22.0	22.0	22.0	1.23	1.23	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		21.9	22.0	21.9	1.0	0.9	1.0	dB	
	Time-averaged Power [dBm]		21.9	22.0	21.9	1.26	1.23	1.26	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.0	21.0	21.0	0.9	0.9	0.9	dB	
	Time-averaged Power [dBm]		21.0	21.0	21.0	1.23	1.23	1.23	Lin	
	Left Cheek	Estimated SAR	-	0.626	-	-	0.770	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.258	-	-	0.317	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.375	-	-	0.461	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.292	-	-	0.359	-	-	-
Full SAR		-	-	-	-	-	-			

(LTE1900 (Band 2) Head SAR / Antenna 2 Table continues)

(LTE1900 (Band 2) Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.0	21.0	21.0	0.9	0.9	0.9	dB	
	Time-averaged Power [dBm]		21.0	21.0	21.0	1.23	1.23	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.0	21.0	20.8	0.9	0.9	1.1	dB	
	Time-averaged Power [dBm]		21.0	21.0	20.8	1.23	1.23	1.29	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.0	21.0	20.9	0.9	0.9	1.0	dB	
	Time-averaged Power [dBm]		21.0	21.0	20.9	1.23	1.23	1.26	Lin	
	Left Cheek	Estimated SAR	-	0.646	-	-	0.795	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-
Full SAR		-	-	-	-	-	-			

LTE2500 (Band 7) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.6	22.0	22.0	0.8	0.4	0.4	dB	
	Time-averaged Power [dBm]		21.6	22.0	22.0	1.20	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	22.1	22.0	0.6	0.3	0.4	dB	
	Time-averaged Power [dBm]		21.8	22.1	22.0	1.15	1.07	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.305	-	-	0.327	-	0.02	-
		Full SAR	-	0.283	-	-	0.303	-		
	Left Tilt	Estimated SAR	-	0.094	-	-	0.101	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.201	-	-	0.215	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.107	-	-	0.115	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Left Cheek	Estimated SAR	-	0.357	-	-	0.383	-	0.00	10	
	Full SAR	-	0.358	-	-	0.384	-			
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	22.1	21.7	0.4	0.3	0.7	dB	
	Time-averaged Power [dBm]		22.0	22.1	21.7	1.10	1.07	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.7	21.0	21.0	0.7	0.4	0.4	dB	
	Time-averaged Power [dBm]		20.7	21.0	21.0	1.17	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.9	21.1	21.2	0.5	0.3	0.2	dB	
	Time-averaged Power [dBm]		20.9	21.1	21.2	1.12	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE2500 (Band 7) Head SAR / Antenna 2 Table continues)

(LTE2500 (Band 7) Head SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20050 2510.0 MHz	Ch 23175 2535.0 MHz	Ch 20300 2560.0 MHz		
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.2	0.4	0.3	0.2	dB	
	Time-averaged Power [dBm]		21.0	21.1	21.2	1.10	1.07	1.05	Lin	
	Left Cheek	Estimated SAR	-	-	0.239	-	-	0.250	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	-	0.075	-	-	0.079	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	-	0.176	-	-	0.184	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	-	0.097	-	-	0.101	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.9	21.0	21.1	0.5	0.4	0.3	dB	
	Time-averaged Power [dBm]		20.9	21.0	21.1	1.12	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

2450MHz Head SAR results

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz	Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz		
WLAN b-mode BPSK 1Mbps	Tuning Target + Tolerance [dBm]		17.5			Scaling factor*				
	Conducted Power [dBm]		16.2	16.4	16.5	1.4	1.1	1.1	dB	
	Time-averaged power [dBm]		16.2	16.4	16.5	1.36	1.29	1.27	Lin	
	Left Cheek	Estimated SAR	0.625	0.661	0.728	0.853	0.855	0.927	0.01	-
		Full SAR	-	-	0.714	-	-	0.909		
	Left Tilt	Estimated SAR	-	0.502	-	-	0.650	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.326	-	-	0.422	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.285	-	-	0.369	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Left Cheek	Estimated SAR	0.630	0.752	0.756	0.860	0.973	0.963	0.03	11
Full SAR		-	-	0.723	-	-	0.921			
Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz	Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz		
WLAN n-mode 16QAM 26.0 / 28.9 Mbps	Tuning Target + Tolerance [dBm]		17.5			Scaling factor*				
	Conducted Power [dBm]		16.6	16.7	-	0.9	0.9	0.0	dB	
	Time-averaged power [dBm]		16.6	16.7	-	1.23	1.22	1.00	Lin	
	Left Cheek	Estimated SAR	0.698	0.717	-	0.861	0.872	-	-	-
		Full SAR	-	-	-	-	-	-		

**Simultaneous transmissions: Combined head SAR results –
Individual band Max results**

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/ 2100 (Band 4)
Head: Left, Cheek	0.921	0.090	0.117	0.297	0.570
Head: Left, Tilt	0.650	0.055	0.099	0.260	0.416
Head: Right, Cheek	0.422	0.151	0.252	0.375	0.402
Head: Right, Tilt	0.369	0.075	0.111	0.265	0.334
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE1700/ 2100 (Band 4)	2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)	
Head: Left, Cheek	0.477	0.633	0.797	0.296	
Head: Left, Tilt	0.173	0.242	0.314	0.194	
Head: Right, Cheek	0.426	0.348	0.483	0.590	
Head: Right, Tilt	0.189	0.242	0.379	0.214	

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	2-slot GPRS850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/ 2100 (Band 4)
Head: Left, Cheek	0.921	0.393	0.654	0.700	0.465	0.754
Head: Left, Tilt	0.650	0.199	0.370	0.491	0.253	0.509
Head: Right, Cheek	0.422	0.332	0.378	0.491	0.308	0.625
Head: Right, Tilt	0.369	0.243	0.317	0.367	0.209	0.458
Test configuration	Max. Reported* 1g SAR results					
	Antenna 2					
	LTE1700/ 2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)		
Head: Left, Cheek	0.644	0.788	1.06	0.384		
Head: Left, Tilt	0.371	0.394	0.410	0.101		
Head: Right, Cheek	0.516	0.558	0.619	0.215		
Head: Right, Tilt	0.305	0.445	0.445	0.115		

**Simultaneous transmissions: Combined head SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	1.01	1.04	1.22	1.49
Head: Left, Tilt	0.705	0.749	0.910	1.07
Head: Right, Cheek	0.573	0.674	0.797	0.824
Head: Right, Tilt	0.444	0.480	0.634	0.703
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Head: Left, Cheek	1.40	1.55	1.72	1.22
Head: Left, Tilt	0.823	0.892	0.964	0.844
Head: Right, Cheek	0.848	0.770	0.905	1.01
Head: Right, Tilt	0.558	0.611	0.748	0.583

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	1.31	1.58	1.62	1.39	1.68
Head: Left, Tilt	0.849	1.02	1.14	0.903	1.16
Head: Right, Cheek	0.754	0.800	0.913	0.730	1.05
Head: Right, Tilt	0.612	0.686	0.736	0.578	0.827
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	1.57	1.71	1.98	1.31	
Head: Left, Tilt	1.02	1.04	1.06	0.751	
Head: Right, Cheek	0.938	0.980	1.04	0.637	
Head: Right, Tilt	0.674	0.814	0.814	0.484	

7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements

Simultaneous transmission SAR test exclusion procedures as described in KDB 447498 D01 v05.

Following table gives antenna pair SAR to peak location separation ratios for the transmitter combinations for which the sum of simultaneously transmitting 1g SAR was above limit (See “Max+Max Combined results” table in previous section).

Antenna Pair SAR to Peak Location Separation Ratio Antenna 1

	WCDMA 1900 (Band 2) Left Cheek	WLAN 2450 Left Cheek
X [mm]	65.2	35.7
Y [mm]	255.6	317.8
Z [mm]	-175.0	-174.4
DISTANCE [mm]	68.87	
MAX + MAX (Reported SAR)	1.72	
SAR to peak location separation ratio	0.03	

Antenna Pair SAR to Peak Location Separation Ratio Antenna 2

	WCDMA 850 (Band 5) Left Cheek	WLAN 2450 Left Cheek	WCDMA 1700/ 2100 (Band4) Left Cheek	WLAN 2450 Left Cheek	WCDMA 1900 (Band 2) Left Cheek	WLAN 2450 Left Cheek	LTE1900 (Band 2) Left Cheek	WLAN 2450 Left Cheek
X [mm]	63.3	35.7	64.5	35.7	66.2	35.7	64.5	35.7
Y [mm]	270.6	317.8	257.8	317.8	260.3	317.8	254.3	317.8
Z [mm]	-175.6	-174.4	-173.9	-174.4	-175.4	-174.4	-175.0	-174.4
DISTANCE [mm]	54.70		66.55		65.12		69.72	
MAX + MAX (Reported SAR)	1.62		1.68		1.71		1.98	
SAR to peak location separation ratio	0.04		0.03		0.03		0.04	

All simultaneous transmitter configurations where all antenna pairs' SPLSR is equal to or below 0.04 are excluded from expanded zoom scan testing.

7.1.2 Combined Head SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values. It is these values that appear in the Summary table in Section 1.2.1.

**Simultaneous transmissions: Combined head SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	-	-	-	-
Head: Left, Tilt	-	-	-	-
Head: Right, Cheek	-	-	-	-
Head: Right, Tilt	-	-	-	-
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Head: Left, Cheek	-	1.05	1.06	-
Head: Left, Tilt	-	-	-	-
Head: Right, Cheek	-	-	-	-
Head: Right, Tilt	-	-	-	-

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	1.06	1.11	1.11	1.05	1.22
Head: Left, Tilt	-	-	-	-	-
Head: Right, Cheek	-	-	-	-	-
Head: Right, Tilt	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	1.20	-	1.09	0.995	
Head: Left, Tilt	-	-	-	-	
Head: Right, Cheek	-	-	-	-	
Head: Right, Tilt	-	-	-	-	

Plots for the combinations with MAX+MAX result >1.6 are included in Appendix B, namely the plots #12-15.

7.2 The measured Body SAR values for the test device are tabulated below:

LTE700 (Band 17) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz			
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			22.8	22.8	22.8	0.6	0.6	0.6	dB		
	Time-averaged power [dBm]			22.8	22.8	22.8	1.15	1.15	1.15	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			22.9	22.9	22.8	0.5	0.5	0.6	dB		
	Time-averaged power [dBm]			22.9	22.9	22.8	1.12	1.12	1.15	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			22.9	23.0	22.9	0.5	0.4	0.5	dB		
	Time-averaged power [dBm]			22.9	23.0	22.9	1.12	1.10	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.159	-	-	0.174	-	0.00	-	
			Full SAR	-	0.160	-	-	0.175	-			
		Headset WH-108	Estimated SAR	-	0.112	-	-	0.123	-	-	-	
			Full SAR	-	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.136	-	-	0.149	-	-	-	
			Full SAR	-	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.118	-	-	0.129	-	-	-	
			Full SAR	-	-	-	-	-	-			
	CC-3085 Back facing phantom without headset			Estimated SAR	-	0.155	-	-	0.170	-	0.00	-
				Full SAR	-	0.157	-	-	0.172	-		

(LTE700 (Band 17) Body SAR / Antenna 1 Table continues)

(LTE700 (Band 17) Body SAR / Antenna 1 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 23780	Ch 23790	Ch 23800	Ch 23780	Ch 23790	Ch 23800		
				709.0 MHz	710.0 MHz	711.0 MHz	709.0 MHz	710.0 MHz	711.0 MHz		
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		21.9	21.9	21.9	0.5	0.5	0.5	dB		
	Time-averaged power [dBm]		21.9	21.9	21.9	1.12	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.153	-	-	0.168	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.101	-	-	0.111	-	-	-	-
			Full SAR	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	0.127	-	-	0.139	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.102	-	-	0.112	-	-	-	-
			Full SAR	-	-	-	-	-			
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE700 (Band 17) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.6	22.6	22.6	0.8	0.8	0.8	dB	
	Time-averaged power [dBm]			22.6	22.6	22.6	1.20	1.20	1.20	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.7	22.7	22.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]			22.7	22.7	22.6	1.17	1.17	1.20	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.7	22.8	22.7	0.7	0.6	0.7	dB	
	Time-averaged power [dBm]			22.7	22.8	22.7	1.17	1.15	1.17	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.431	-	-	0.495	-	0.00	16
			Full SAR	-	0.433	-	-	0.497	-		
		Headset WH-108	Estimated SAR	-	0.286	-	-	0.328	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.366	-	-	0.420	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.220	-	-	0.253	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom without headset		Estimated SAR	-	0.387	-	-	0.444	-	0.01	-
			Full SAR	-	0.394	-	-	0.452	-		

(LTE700 (Band 17) Body SAR / Antenna 2 Table continues)

(LTE700 (Band 17) Body SAR / Antenna 2 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 23780	Ch 23790	Ch 23800	Ch 23780	Ch 23790	Ch 23800		
				709.0 MHz	710.0 MHz	711.0 MHz	709.0 MHz	710.0 MHz	711.0 MHz		
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		21.7	21.7	21.7	0.7	0.7	0.7	dB		
	Time-averaged power [dBm]		21.7	21.7	21.7	1.17	1.17	1.17	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB		
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB		
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.342	-	-	0.393	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.232	-	-	0.266	-	-	-	-
			Full SAR	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	0.289	-	-	0.332	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.180	-	-	0.207	-	-	-	-
			Full SAR	-	-	-	-	-			
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB		
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

GSM/GPRS/EGPRS/WCDMA850MHz Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 128	Ch 190	Ch 251	Ch 128	Ch 190	Ch 251			
				824.2 MHz	836.6 MHz	848.8 MHz	824.2 MHz	836.6 MHz	848.8 MHz			
1-slot GPRS	Tuning Target + Tolerance [dBm]			32.6			Scaling factor*					
	Conducted Slot Average Power [dBm]			31.7	31.9	31.9	0.9	0.7	0.7	dB		
	Time-averaged power [dBm]			22.7	22.9	22.9	1.23	1.17	1.17	Lin		
				No testing required for this slot configuration.								
2-slot GPRS	Tuning Target + Tolerance [dBm]			29.7			Scaling factor*					
	Conducted Slot Average Power [dBm]			29.2	29.4	29.4	0.5	0.3	0.3	dB		
	Time-averaged power [dBm]			23.2	23.4	23.4	1.12	1.07	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.467	0.426	0.411	0.524	0.456	0.440	0.01	-	
			Full SAR	0.480	-	-	0.539	-	-			
		Headset WH-108	Estimated SAR	-	0.230	-	-	0.246	-	-	-	
			Full SAR	-	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.393	-	-	0.421	-	-	-	
			Full SAR	-	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.204	-	-	0.219	-	-	-	
			Full SAR	-	-	-	-	-	-			
	CC-3085 Back facing phantom Without headset			Estimated SAR	0.520	0.469	0.446	0.583	0.503	0.478	0.01	17
				Full SAR	0.528	-	-	0.592	-	-		
3-slot GPRS	Tuning Target + Tolerance [dBm]			27.9			Scaling factor*					
	Conducted Slot Average Power [dBm]			27.1	27.4	27.4	0.8	0.5	0.5	dB		
	Time-averaged power [dBm]			22.8	23.1	23.1	1.20	1.12	1.12	Lin		
				No testing required for this slot configuration.								
4-slot GPRS	Tuning Target + Tolerance [dBm]			26.7			Scaling factor*					
	Conducted Slot Average Power [dBm]			25.8	26.0	25.9	0.9	0.7	0.8	dB		
	Time-averaged power [dBm]			22.8	23.0	22.9	1.23	1.17	1.20	Lin		
				No testing required for this slot configuration.								

(GSM/GPRS/EGPRS/WCDMA850 Body SAR / Antenna 2 Table continues)

(GSM/GPRS/EGPRS/WCDMA850 Body SAR / Antenna 2 Table continues)

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 4132	Ch 4175	Ch 4233	Ch 4132	Ch 4175	Ch 4233		
				826.4 MHz	835.0 MHz	846.6 MHz	826.4 MHz	835.0 MHz	846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Slot Average Power [dBm]			23.1	23.1	23.2	0.8	0.8	0.7	dB	
	Time-averaged power [dBm]			23.1	23.1	23.2	1.20	1.20	1.17	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.547	0.542	0.514	0.658	0.652	0.604	0.02	-
			Full SAR	0.564	-	-	0.678	-	-		
		Headset WH-108	Estimated SAR	-	0.438	-	-	0.527	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.524	-	-	0.630	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.413	-	-	0.497	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom Without headset		Estimated SAR	0.582	0.579	0.555	0.700	0.696	0.652	0.01	18
			Full SAR	0.589	-	-	0.708	-	-		

WCDMA850 (Band 5) Body SAR results / Antenna 1

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 4132	Ch 4175	Ch 4233	Ch 4132	Ch 4175	Ch 4233		
				826.4 MHz	835.0 MHz	846.6 MHz	826.4 MHz	835.0 MHz	846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Slot Average Power [dBm]			23.3	23.3	23.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]			23.3	23.3	23.4	1.15	1.15	1.12	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.133	0.180	0.185	0.153	0.207	0.208	0.00	-
			Full SAR	-	-	0.185	-	-	0.208		
		Headset WH-108	Estimated SAR	-	0.137	-	-	0.157	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.165	-	-	0.189	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.158	-	-	0.181	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom Without headset		Estimated SAR	0.144	0.134	0.156	0.165	0.154	0.175	0.00	-
			Full SAR	-	-	0.154	-	-	0.173		

LTE850 (Band 5) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450	Ch 20525	Ch 20600	Ch 20450	Ch 20525	Ch 20600		
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB		
	Time-averaged power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.344	-	-	0.386	-	0.00	-
			Full SAR	-	0.348	-	-	0.390	-		
		Headset WH-108	Estimated SAR	-	0.221	-	-	0.248	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.309	-	-	0.347	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.183	-	-	0.205	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom Without headset		Estimated SAR	-	0.321	-	-	0.360	-	0.01	-
			Full SAR	-	0.329	-	-	0.369	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB		
	Time-averaged power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.9	22.9	22.8	0.5	0.5	0.5	dB		
	Time-averaged power [dBm]		22.9	22.9	22.8	1.12	1.12	1.15	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(LTE850 (Band 5) Body SAR / Antenna 1 Table continues)

(LTE850 (Band 5) Body SAR / Antenna 1 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450	Ch 20525	Ch 20600	Ch 20450	Ch 20525	Ch 20600		
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz		
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.265	-	-	0.291	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.189	-	-	0.207	-	-	-	-
			Full SAR	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	0.249	-	-	0.273	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset Wh-108	Estimated SAR	0.149	-	-	0.163	-	-	-	-
			Full SAR	-	-	-	-	-			
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB		
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Power [dBm]		22.0	22.0	22.0	0.4	0.4	0.4	dB		
	Time-averaged power [dBm]		22.0	22.0	22.0	1.10	1.10	1.10	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE850 (Band 5) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450	Ch 20525	Ch 20600	Ch 20450	Ch 20525	Ch 20600		
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.7	22.7	22.7	0.5	0.5	0.5	dB		
	Time-averaged power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.275	-	-	0.323	-	0.01	-
			Full SAR	-	0.284	-	-	0.334	-		
		Headset WH-108	Estimated SAR	-	0.184	-	-	0.216	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.265	-	-	0.311	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.215	-	-	0.253	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom Without headset		Estimated SAR	-	0.339	-	-	0.398	-	0.01	19
			Full SAR	-	0.345	-	-	0.405	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.7	22.7	22.7	0.7	0.7	0.7	dB		
	Time-averaged power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.7	22.7	22.6	0.7	0.7	0.8	dB		
	Time-averaged power [dBm]		22.7	22.7	22.6	1.17	1.17	1.20	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(LTE850 (Band 5) Body SAR / Antenna 1 Table continues)

(LTE850 (Band 5) Body SAR / Antenna 1 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450	Ch 20525	Ch 20600	Ch 20450	Ch 20525	Ch 20600		
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz		
10MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]			21.8	21.7	21.7	1.15	1.17	1.17	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.259	-	-	0.297	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	0.176	-	-	0.202	-	-	-	-
			Full SAR	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	0.246	-	-	0.282	-	-	-	-
			Full SAR	-	-	-	-	-			
		Headset Wh-108	Estimated SAR	0.178	-	-	0.204	-	-	-	-
			Full SAR	-	-	-	-	-			
10MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]			21.8	21.7	21.7	1.15	1.17	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]12			21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]			21.8	21.7	21.7	1.15	1.17	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.8	21.8	21.8	0.6	0.6	0.6	dB	
	Time-averaged power [dBm]			21.8	21.8	21.8	1.15	1.15	1.15	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

WCDMA1700/2100 (Band4) Body SAR results / Antenna 1

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.4	23.6	23.6	0.5	0.3	0.3	dB		
	Time-averaged power [dBm]			23.4	23.6	23.6	1.12	1.07	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.702	0.657	0.649	0.788	0.704	0.695	0.01	20	
			Full SAR	0.692	-	-	0.776	-	-			
		Headset WH-108	Estimated SAR	-	0.479	-	-	0.513	-	-	-	
			Full SAR	-	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.649	-	-	0.695	-	-	-	
			Full SAR	-	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.531	-	-	0.569	-	-	-	
			Full SAR	-	-	-	-	-	-			
	CC-3085 Back facing phantom Without headset			Estimated SAR	0.661	0.625	0.625	0.742	0.670	0.670	0.01	-
				Full SAR	0.653	-	-	0.733	-	-		

WCDMA1700/2100 (Band4) Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			22.9	23.1	23.1	1.0	0.8	0.8	dB		
	Time-averaged power [dBm]			22.9	23.1	23.1	1.26	1.20	1.20	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.603	0.563	0.512	0.759	0.677	0.616	0.02	-	
			Full SAR	0.588	-	-	0.740	-	-			
		Headset WH-108	Estimated SAR	-	0.487	-	-	0.586	-	-	-	
			Full SAR	-	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.493	-	-	0.593	-	-	-	
			Full SAR	-	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.392	-	-	0.471	-	-	-	
			Full SAR	-	-	-	-	-	-			
	CC-3085 Back facing phantom Without headset			Estimated SAR	0.603	0.575	0.503	0.759	0.691	0.605	0.01	-
				Full SAR	0.598	-	-	0.753	-	-		

LTE1700/2100 (Band 4) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			23.1	23.0	23.1	0.3	0.4	0.3	dB	
	Time-averaged power [dBm]			23.1	23.0	23.1	1.07	1.10	1.07	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			23.0	23.1	23.0	0.4	0.3	0.4	dB	
	Time-averaged power [dBm]			23.0	23.1	23.0	1.10	1.07	1.10	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			23.1	23.1	23.1	0.3	0.3	0.3	dB	
	Time-averaged power [dBm]			23.1	23.1	23.1	1.07	1.07	1.07	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.540	-	-	0.579	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.419	-	-	0.449	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.572	-	-	0.613	-	0.02	21
			Full SAR	-	0.594	-	-	0.636	-		
		Headset WH-108	Estimated SAR	-	0.493	-	-	0.528	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Display facing phantom Without headset		Estimated SAR	-	0.560	-	-	0.600	-	0.01	-
			Full SAR	-	0.572	-	-	0.613	-		

(LTE1700 (Band 4) Body SAR / Antenna 1 Table continues)

(LTE1700 (Band 4) Body SAR / Antenna 1 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			22.2	22.2	22.3	0.2	0.2	0.1	dB	
	Time-averaged power [dBm]			22.2	22.2	22.3	1.05	1.05	1.02	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	-	0.442	-	-	0.452	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	-	0.338	-	-	0.346	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	-	0.484	-	-	0.495	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	-	0.397	-	-	0.406	-	-
Full SAR			-	-	-	-	-	-	-	-	
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			22.1	22.2	22.1	0.3	0.2	0.3	dB	
	Time-averaged power [dBm]			22.1	22.2	22.1	1.07	1.05	1.07	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			22.2	22.2	22.2	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]			22.2	22.2	22.2	1.05	1.05	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			22.2	22.2	22.2	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]			22.2	22.2	22.2	1.05	1.05	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1700/2100 (Band 4) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.6	22.5	22.6	0.8	0.9	0.8	dB	
	Time-averaged power [dBm]			22.6	22.5	22.6	1.20	1.23	1.20	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.5	22.6	22.5	0.9	0.8	0.9	dB	
	Time-averaged power [dBm]			22.5	22.6	22.5	1.23	1.20	1.23	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.6	22.6	22.6	0.8	0.8	0.8	dB	
	Time-averaged power [dBm]			22.6	22.6	22.6	1.20	1.20	1.20	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.389	-	-	0.468	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.373	-	-	0.448	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.409	-	-	0.492	-	0.01	-
			Full SAR	-	0.415	-	-	0.499	-	-	-
		Headset WH-108	Estimated SAR	-	0.395	-	-	0.475	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3085 Display facing phantom Without headset		Estimated SAR	-	0.435	-	-	0.523	-	0.01	-
			Full SAR	-	0.441	-	-	0.530	-	-	-

(LTE1700 (Band 4) Body SAR / Antenna 2 Table continues)

(LTE1700 (Band 4) Body SAR / Antenna 2 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.7	21.7	21.8	0.7	0.7	0.6	dB	
	Time-averaged power [dBm]			21.7	21.7	21.8	1.17	1.17	1.15	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	-	0.307	-	-	0.352	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	-	0.320	-	-	0.367	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	-	0.334	-	-	0.383	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	-	0.322	-	-	0.370	-	-
Full SAR			-	-	-	-	-	-	-	-	
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.6	21.7	21.6	0.8	0.7	0.8	dB	
	Time-averaged power [dBm]			21.6	21.7	21.6	1.20	1.17	1.20	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100% offset	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.7	21.7	21.7	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]			21.7	21.7	21.7	1.17	1.17	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			21.7	21.7	21.7	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]			21.7	21.7	21.7	1.17	1.17	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

1900MHz Band Body SAR results / Antenna 1

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz	Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]			29.9			Scaling factor*				
	Conducted Slot Average Power [dBm]			29.6	29.6	29.4	0.3	0.3	0.5	dB	
	Time-averaged power [dBm]			20.6	20.6	20.4	1.07	1.07	1.12	Lin	
				No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]			29.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			29.2	29.1	28.8	0.2	0.3	0.6	dB	
	Time-averaged power [dBm]			23.2	23.1	22.8	1.05	1.07	1.15	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.469	-	-	0.503	-	-	-
		Headset WH-108	Estimated SAR	-	0.468	-	-	0.501	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	0.556	0.562	0.543	0.582	0.602	0.623	0.02	-
		Headset WH-108	Estimated SAR	-	0.518	-	-	0.555	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3085 Display facing phantom Without headset		Estimated SAR	0.608	0.568	0.567	0.637	0.609	0.651	0.03	22
			Full SAR	-	-	0.592	-	-	0.680		
3-slot GPRS	Tuning Target + Tolerance [dBm]			27.6			Scaling factor*				
	Conducted Slot Average Power [dBm]			27.3	27.2	27.0	0.3	0.4	0.6	dB	
	Time-averaged power [dBm]			23.0	22.9	22.7	1.07	1.10	1.15	Lin	
				No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]			25.9			Scaling factor*				
	Conducted Slot Average Power [dBm]			25.9	25.9	25.7	0.0	0.0	0.2	dB	
	Time-averaged power [dBm]			22.9	22.9	22.7	1.00	1.00	1.05	Lin	
				No testing required for this slot configuration.							

(1900MHz Band Body SAR results / Antenna 1 Table continues)

(1900MHz Band Body SAR results / Antenna 1 Table continues)

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.1	23.1	22.9	0.3	0.3	0.5	dB		
	Time-averaged power [dBm]			23.1	23.1	22.9	1.07	1.07	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.541	-	-	0.580	-	-	-	
			Full SAR	-	-	-	-	-	-		-	
		Headset WH-108	Estimated SAR	-	0.491	-	-	0.526	-	-	-	
			Full SAR	-	-	-	-	-	-		-	
	Display facing phantom	Without headset	Estimated SAR	0.681	0.662	0.621	0.730	0.709	0.697	0.02	23	
			Full SAR	0.703	-	-	0.753	-	-		-	
		Headset WH-108	Estimated SAR	-	0.618	-	-	0.662	-	-	-	
			Full SAR	-	-	-	-	-	-		-	
	CC-3085 Display facing phantom Without headset			Estimated SAR	0.663	0.651	0.622	0.710	0.698	0.698	0.02	-
				Full SAR	0.685	-	-	0.734	-	-		

WCDMA1900 (Band2) Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			22.6	22.6	22.4	0.8	0.8	1.0	dB	
	Time-averaged power [dBm]			22.6	22.6	22.4	1.20	1.20	1.26	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.411	-	-	0.494	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	0.426	0.453	0.386	0.512	0.545	0.486	0.05	-
			Full SAR	-	0.407	-	-	0.489	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.355	-	-	0.427	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.377	-	-	0.453	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3085 Back facing phantom Headset WH-108		Estimated SAR	0.433	0.427	0.392	0.521	0.513	0.493	0.01	-
			Full SAR	0.446	-	-	0.536	-	-	-	-

LTE1900 (Band 2) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement		Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
					Ch 18700	Ch 18900	Ch 19100	Ch 18700	Ch 18900	Ch 19100		
					1869.0 MHz	1880.0 MHz	1900.0 MHz	1869.0 MHz	1880.0 MHz	1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*						
	Conducted Power [dBm]		22.5	22.6	22.6	0.4	0.3	0.3	dB			
	Time-averaged power [dBm]		22.5	22.6	22.6	1.10	1.07	1.07	Lin			
	Back facing phantom	Without headset	Estimated SAR	-	0.481	-	-	0.515	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.483	-	-	0.518	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
	Display facing phantom	Without headset	Estimated SAR	-	0.502	-	-	0.538	-	0.02	-	
			Full SAR	-	0.522	-	-	0.559	-	-	-	
		Headset WH-108	Estimated SAR	-	0.488	-	-	0.523	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
CC-3085 Display facing phantom Without headset		Estimated SAR	-	0.494	-	-	0.529	-	0.01	-		
		Full SAR	-	0.506	-	-	0.542	-				
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*						
	Conducted Power [dBm]		22.5	22.5	22.5	0.4	0.4	0.4	dB			
	Time-averaged power [dBm]		22.5	22.5	22.5	1.10	1.10	1.10	Lin			
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02									
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*						
	Conducted Power [dBm]		22.4	22.5	22.4	0.5	0.4	0.5	dB			
	Time-averaged power [dBm]		22.4	22.5	22.4	1.12	1.10	1.12	Lin			
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02									

(LTE1900 (Band 2) Body SAR results / Antenna 1 Table continues)

(LTE1900 (Band 2) Body SAR results / Antenna 1 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 18700	Ch 18900	Ch 19100	Ch 18700	Ch 18900	Ch 19100		
				1869.0 MHz	1880.0 MHz	1900.0 MHz	1869.0 MHz	1880.0 MHz	1900.0 MHz		
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*				
	Conducted Power [dBm]			21.5	21.5	21.5	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]			21.5	21.5	21.5	1.10	1.10	1.10	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.391	-	-	0.429	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.390	-	-	0.428	-	-	-
			Full SAR	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.408	-	-	0.447	-	-	-
			Full SAR	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.392	-	-	0.430	-	-	-
Full SAR			-	-	-	-	-				
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*				
	Conducted Power [dBm]			21.5	21.5	21.5	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]			21.5	21.5	21.5	1.10	1.10	1.10	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*				
	Conducted Power [dBm]			21.5	21.5	21.3	0.4	0.4	0.6	dB	
	Time-averaged power [dBm]			21.5	21.5	21.3	1.10	1.10	1.15	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*				
	Conducted Power [dBm]			21.5	21.5	21.4	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]			21.5	21.5	21.4	1.10	1.10	1.12	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1900 (Band 2) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 18700	Ch 18900	Ch 19100	Ch 18700	Ch 18900	Ch 19100		
				1869.0 MHz	1880.0 MHz	1900.0 MHz	1869.0 MHz	1880.0 MHz	1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*					
	Conducted Power [dBm]		22.0	22.1	22.1	0.9	0.8	0.8	dB		
	Time-averaged power [dBm]		22.0	22.1	22.1	1.23	1.20	1.20	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.402	-	-	0.483	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.385	-	-	0.463	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.469	-	-	0.564	-	0.01	-
			Full SAR	-	0.475	-	-	0.571	-	-	-
		Headset WH-108	Estimated SAR	-	0.443	-	-	0.533	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3085 Display facing phantom Without headset		Estimated SAR	-	0.480	-	-	0.577	-	0.01	24
			Full SAR	-	0.491	-	-	0.590	-		
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*					
	Conducted Power [dBm]		22.0	22.0	22.0	0.9	0.9	0.9	dB		
	Time-averaged power [dBm]		22.0	22.0	22.0	1.23	1.23	1.23	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*					
	Conducted Power [dBm]		21.9	22.0	21.9	1.0	0.9	1.0	dB		
	Time-averaged power [dBm]		21.9	22.0	21.9	1.26	1.23	1.26	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(LTE1900 (Band 2) Body SAR results / Antenna 2 Table continues)

(LTE1900 (Band 2) Body SAR results / Antenna 2 Table continues)

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 18700	Ch 18900	Ch 19100	Ch 18700	Ch 18900	Ch 19100			
				1869.0 MHz	1880.0 MHz	1900.0 MHz	1869.0 MHz	1880.0 MHz	1900.0 MHz			
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*					
	Conducted Power [dBm]			21.0	21.0	21.0	0.9	0.9	0.9	dB		
	Time-averaged power [dBm]			21.0	21.0	21.0	1.23	1.23	1.23	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.309	-	-	0.380	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.296	-	-	0.364	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.348	-	-	0.428	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.328	-	-	0.404	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*					
	Conducted Power [dBm]			21.0	21.0	21.0	0.9	0.9	0.9	dB		
	Time-averaged power [dBm]			21.0	21.0	21.0	1.23	1.23	1.23	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*					
	Conducted Power [dBm]			21.0	21.0	20.8	0.9	0.9	1.1	dB		
	Time-averaged power [dBm]			21.0	21.0	20.8	1.23	1.23	1.29	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			21.9			Scaling factor*					
	Conducted Power [dBm]			21.0	21.0	20.9	0.9	0.9	1.0	dB		
	Time-averaged power [dBm]			21.0	21.0	20.9	1.23	1.23	1.26	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE2500 (Band 7) Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20850	Ch 21100	Ch 21350	Ch 20850	Ch 21100	Ch 21350		
				2510.0 MHz	2535.0 MHz	2560.0 MHz	2510.0 MHz	2535.0 MHz	2560.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Slot Average Power [dBm]		21.6	22.0	22.0	0.8	0.4	0.4	dB		
	Time-averaged power [dBm]		21.6	22.0	22.0	1.20	1.10	1.10	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Slot Average Power [dBm]		21.8	22.1	22.0	0.6	0.3	0.4	dB		
	Time-averaged power [dBm]		21.8	22.1	22.0	1.15	1.07	1.10	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.470	-	-	0.504	-	0.01	25
			Full SAR	-	0.463	-	-	0.496	-		
		Headset WH-108	Estimated SAR	-	0.436	-	-	0.467	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.417	-	-	0.447	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.367	-	-	0.393	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom without headset		Estimated SAR	-	0.465	-	-	0.498	-	0.01	-
Full SAR			-	0.455	-	-	0.488	-			
20MHz Ch BW 1 RB 100% offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*					
	Conducted Slot Average Power [dBm]		22.0	22.1	21.7	0.4	0.3	0.7	dB		
	Time-averaged power [dBm]		22.0	22.1	21.7	1.10	1.07	1.17	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50% RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*					
	Conducted Slot Average Power [dBm]		20.7	21.0	21.0	0.7	0.4	0.4	dB		
	Time-averaged power [dBm]		20.7	21.0	21.0	1.17	1.10	1.10	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(LTE2500 (Band 7) Body SAR results / Antenna 2 Table continues)

(LTE2500 (Band 7) Body SAR results / Antenna 2 Table continues)

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 50% RB 50% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			20.9	21.1	21.2	0.5	0.3	0.2	dB	
	Time-averaged power [dBm]			20.9	21.1	21.2	1.12	1.07	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			21.0	21.1	21.2	0.4	0.3	0.2	dB	
	Time-averaged power [dBm]			21.0	21.1	21.2	1.10	1.07	1.05	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	-	0.455	-	-	0.476	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-	-	-
		Without headset	Estimated SAR	-	-	0.320	-	-	0.335	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	-	0.310	-	-	0.325	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-	-	-
		Without headset	Estimated SAR	-	-	0.289	-	-	0.303	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			20.9	21.0	21.1	0.5	0.4	0.3	dB	
	Time-averaged power [dBm]			20.9	21.0	21.1	1.12	1.10	1.07	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

2450MHz Body SAR results

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 1	Ch 6	Ch 11	Ch 1	Ch 6	Ch 11		
				2412.0 MHz	2437.0 MHz	2462.0 MHz	2412.0 MHz	2437.0 MHz	2462.0 MHz		
WLAN b-mode BPSK 1 Mbps	Tuning Target + Tolerance [dBm]			17.5			Scaling factor*				
	Conducted Power [dBm]			16.2	16.4	16.5	1.4	1.1	1.1	dB	
	Time-averaged power [dBm]			16.2	16.4	16.5	1.36	1.29	1.27	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.083	-	-	0.107	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	0.079	0.083	0.085	0.107	0.107	0.109	0.01	-
			Full SAR	-	-	0.091	-	-	0.116	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.063	-	-	0.082	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.063	-	-	0.081	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
CC-3085 Back facing phantom Headset WH-108		Estimated SAR	0.075	0.090	0.093	0.102	0.116	0.119	0.00	26	
		Full SAR	-	-	0.095	-	-	0.121			
Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 2	Ch 6	Ch 11	Ch 2	Ch 6	Ch 11		
				2417.0 MHz	2437.0 MHz	2462.0 MHz	2417.0 MHz	2437.0 MHz	2462.0 MHz		
WLAN n-mode 16 QAM 26.0 / 28.9Mbps	Tuning Target + Tolerance [dBm]			17.5			Scaling factor*				
	Conducted Power [dBm]			16.6	16.7	-	0.9	0.9	-	dB	
	Time-averaged power [dBm]			16.6	16.7	-	1.23	1.22	-	Lin	
	Back facing phantom Headset WH-108		Estimated SAR	0.076	0.082	-	0.094	0.099	-	-	-
			Full SAR	-	-	-	-	-	-		

**Simultaneous transmissions: Combined body SAR results –
Individual band Max results**

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Body: Back facing phantom, Without Headset	0.107	0.175	0.208	0.390	0.776
Body: Back facing phantom, Headset WH-108	0.121	0.123	0.157	0.248	0.513
Body: Display facing phantom, Without Headset	0.082	0.149	0.189	0.347	0.695
Body: Display facing phantom, Headset WH-108	0.081	0.129	0.181	0.205	0.569

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1			
	LTE1700/2100 (Band 4)	2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)
Body: Back facing phantom, Without Headset	0.579	0.503	0.580	0.515
Body: Back facing phantom, Headset WH-108	0.449	0.501	0.526	0.518
Body: Display facing phantom, Without Headset	0.636	0.680	0.753	0.559
Body: Display facing phantom, Headset WH-108	0.528	0.555	0.662	0.523

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	2-slot GPRS850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Body: Back facing phantom, Without Headset	0.107	0.497	0.592	0.708	0.405	0.753
Body: Back facing phantom, Headset WH-108	0.121	0.328	0.246	0.527	0.216	0.586
Body: Display facing phantom, Without Headset	0.082	0.420	0.421	0.630	0.311	0.593
Body: Display facing phantom, Headset WH-108	0.081	0.253	0.219	0.497	0.253	0.471

(Table continues)

(Table continues)

Test configuration	Max. Reported* 1g SAR results			
	Antenna 2			
	LTE1700/ 2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)
Body: Back facing phantom, Without Headset	0.468	0.494	0.483	0.496
Body: Back facing phantom, Headset WH-108	0.448	0.536	0.463	0.467
Body: Display facing phantom, Without Headset	0.530	0.427	0.590	0.447
Body: Display facing phantom, Headset WH-108	0.475	0.453	0.533	0.393

**Simultaneous transmissions: Combined body SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.282	0.315	0.497	0.883
Body: Back facing phantom, Headset WH-108	0.244	0.278	0.369	0.634
Body: Display facing phantom, Without Headset	0.231	0.271	0.429	0.777
Body: Display facing phantom, Headset WH-108	0.210	0.262	0.286	0.650
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Body: Back facing phantom, Without Headset	0.686	0.610	0.687	0.622
Body: Back facing phantom, Headset WH-108	0.570	0.622	0.647	0.639
Body: Display facing phantom, Without Headset	0.718	0.762	0.835	0.641
Body: Display facing phantom, Headset WH-108	0.609	0.636	0.743	0.604

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.604	0.699	0.815	0.512	0.860
Body: Back facing phantom, Headset WH-108	0.449	0.367	0.648	0.337	0.707
Body: Display facing phantom, Without Headset	0.502	0.503	0.712	0.393	0.675
Body: Display facing phantom, Headset WH-108	0.334	0.300	0.578	0.334	0.552
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	0.575	0.601	0.590	0.603	
Body: Back facing phantom, Headset WH-108	0.569	0.657	0.584	0.588	
Body: Display facing phantom, Without Headset	0.612	0.509	0.672	0.529	
Body: Display facing phantom, Headset WH-108	0.556	0.534	0.614	0.474	

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product.

7.2.1 Combined Body SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined body SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	-	-	-	0.803
Body: Back facing phantom, Headset WH-108	-	-	-	-
Body: Display facing phantom, Without Headset	-	-	-	-
Body: Display facing phantom, Headset WH-108	-	-	-	-
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Body: Back facing phantom, Without Headset	-	-	-	-
Body: Back facing phantom, Headset WH-108	-	-	-	-
Body: Display facing phantom, Without Headset	0.632	0.679	0.752	-
Body: Display facing phantom, Headset WH-108	-	-	-	-

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.511	0.602	0.718	0.425	-
Body: Back facing phantom, Headset WH-108	-	-	-	-	-
Body: Display facing phantom, Without Headset	-	-	-	-	-
Body: Display facing phantom, Headset WH-108	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	-	-	-	0.515	
Body: Back facing phantom, Headset WH-108	-	-	-	-	
Body: Display facing phantom, Without Headset	-	-	0.601	-	
Body: Display facing phantom, Headset WH-108	-	-	-	-	

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

7.3 Body SAR assessment of Wireless Router mode at 10.0mm separation distance

LTE700 (Band 17) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.8	22.8	22.8	0.6	0.6	0.6	dB	
	Time-averaged power [dBm]		22.8	22.8	22.8	1.15	1.15	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.8	0.5	0.5	0.6	dB	
	Time-averaged power [dBm]		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	23.0	22.9	0.5	0.4	0.5	dB	
	Time-averaged power [dBm]		22.9	23.0	22.9	1.12	1.10	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.204	-	-	0.224	-	0.00	-
		Full SAR	-	0.201	-	-	0.220	-		
	Display facing phantom	Estimated SAR	-	0.189	-	-	0.207	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.008	-	-	0.009	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.190	-	-	0.208	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.063	-	-	0.069	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.203	-	-	0.223	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	-	0.202	-	-	0.221	-	0.00	-
Full SAR		-	0.200	-	-	0.219	-			
10MHz Ch BW 50% RB 0 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.9	21.9	21.9	0.5	0.5	0.5	dB	
	Time-averaged power [dBm]		21.9	21.9	21.9	1.12	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE700 (Band 17) WR SAR results / Antenna 1 Table continues)

(LTE700 (Band 17) WR SAR results / Antenna 1 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	0.189	-	-	0.207	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	0.163	-	-	0.179	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	0.005	-	-	0.006	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	0.141	-	-	0.155	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	0.065	-	-	0.072	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	0.176	-	-	0.193	-	-	-	-
Full SAR		-	-	-	-	-	-	-	-	
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE700 (Band 17) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.6	22.6	22.6	0.8	0.8	0.8	dB	
	Time-averaged power [dBm]		22.6	22.6	22.6	1.20	1.20	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]		22.7	22.7	22.6	1.17	1.17	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.8	22.7	0.7	0.6	0.7	dB	
	Time-averaged power [dBm]		22.7	22.8	22.7	1.17	1.15	1.17	Lin	
	Back facing phantom	Estimated SAR	-	0.569	-	-	0.653	-	0.00	27
		Full SAR	-	0.571	-	-	0.656	-		
	Display facing phantom	Estimated SAR	-	0.460	-	-	0.528	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.019	-	-	0.022	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.217	-	-	0.249	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.433	-	-	0.497	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.263	-	-	0.302	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	-	0.507	-	-	0.582	-	0.00	-
		Full SAR	-	0.515	-	-	0.591	-		
10MHz Ch BW 50% RB 0 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.7	21.7	21.7	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]		21.7	21.7	21.7	1.17	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE700 (Band 17) WR SAR results / Antenna 2 Table continues)

(LTE700 (Band 17) WR SAR results / Antenna 2 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
	Back facing phantom	Estimated SAR	0.460	-	-	0.528	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	0.371	-	-	0.426	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	0.016	-	-	0.018	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	0.167	-	-	0.192	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	0.345	-	-	0.396	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	0.205	-	-	0.235	-	-	-	-
Full SAR		-	-	-	-	-	-	-	-	
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

GSM/GPRS/EGPRS/WCDMA 850MHz Wireless Router SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		32.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		31.7	31.9	31.9	0.9	0.7	0.7	dB	
	Time-averaged power [dBm]		22.7	22.9	22.9	1.23	1.17	1.17	Lin	
			No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]		29.7			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.2	29.4	29.4	0.5	0.3	0.3	dB	
	Time-averaged power [dBm]		23.2	23.4	23.4	1.12	1.07	1.07	Lin	
	Back facing phantom	Estimated SAR	0.608	0.538	0.521	0.682	0.576	0.558	0.02	-
		Full SAR	0.627	-	-	0.704	-	-		
	Display facing phantom	Estimated SAR	-	0.472	-	-	0.506	-	-	-
		Full SAR	-	0.524	-	-	0.561	-		
	Top edge facing phantom	Estimated SAR	-	0.019	-	-	0.020	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.319	-	-	0.342	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.467	-	-	0.500	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.284	-	-	0.304	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom		0.670	0.621	0.570	0.752	0.665	0.611	0.02	28
			0.689	-	-	0.773	-	-		
3-slot GPRS	Tuning Target + Tolerance [dBm]		27.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.1	27.4	27.4	0.8	0.5	0.5	dB	
	Time-averaged power [dBm]		22.8	23.1	23.1	1.20	1.12	1.12	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		26.7			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.8	26.0	25.9	0.9	0.7	0.8	dB	
	Time-averaged power [dBm]		22.8	23.0	22.9	1.23	1.17	1.20	Lin	
			No testing required for this slot configuration.							

(GSM/GPRS/EGPRS/WCDMA 850MHz WR SAR / Antenna 2 Table continues)

(GSM/GPRS/EGPRS/WCDMA 850MHz WR SAR / Antenna 2 Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	23.2	0.8	0.8	0.7	dB	
	Time-averaged power [dBm]		23.1	23.1	23.2	1.20	1.20	1.17	Lin	
	Back facing phantom	Estimated SAR	0.681	0.663	0.630	0.819	0.797	0.740	0.02	-
		Full SAR	0.698	-	-	0.839	-	-		
	Display facing phantom	Estimated SAR	-	0.585	-	-	0.703	-	0.01	-
		Full SAR	-	0.596	-	-	0.717	-		
	Top edge facing phantom	Estimated SAR	-	0.023	-	-	0.028	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.339	-	-	0.408	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.552	-	-	0.664	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.354	-	-	0.426	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	0.716	0.700	0.653	0.861	0.842	0.767	0.00	29
		Full SAR	0.716	-	-	0.861	-	-		

WCDMA850 (Band 5) Wireless Router SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.3	23.3	23.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		23.3	23.3	23.4	1.15	1.15	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.246	-	-	0.282	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.271	-	-	0.311	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.025	-	-	0.028	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.379	0.395	0.307	0.435	0.454	0.344	0.01	-
		Full SAR	-	0.387	-	-	0.444	-		
	Left edge facing phantom	Estimated SAR	-	0.041	-	-	0.047	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.224	-	-	0.257	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Bottom facing phantom	Estimated SAR	0.354	0.346	0.320	0.406	0.397	0.359	0.02	-
		Full SAR	0.338	-	-	0.388	-	-		

LTE850 (Band 5) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB	
	Time-averaged power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.436	-	-	0.489	-	0.00	30
		Full SAR	-	0.434	-	-	0.487	-		
	Display facing phantom	Estimated SAR	-	0.370	-	-	0.415	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.025	-	-	0.028	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.118	-	-	0.132	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.179	-	-	0.201	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.411	-	-	0.461	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Back facing phantom	Estimated SAR	-	0.419	-	-	0.470	-	0.01	-	
	Full SAR	-	0.424	-	-	0.476	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.9	0.5	0.5	0.5	dB	
	Time-averaged power [dBm]		22.9	22.9	22.9	1.12	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	22.8	0.5	0.5	0.6	dB	
	Time-averaged power [dBm]		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE850 (Band 5) WR SAR / Antenna 1 Table continues)

(LTE850 (Band 5) WR SAR / Antenna 1 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	0.346	-	-	0.379	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	0.294	-	-	0.322	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	0.020	-	-	0.022	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.103	-	-	0.113	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	0.136	-	-	0.149	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	0.334	-	-	0.366	-	-	-	-
		Full SAR	-	-	-	-	-	-		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	21.9	21.9	0.4	0.5	0.5	dB	
	Time-averaged power [dBm]		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	22.0	22.0	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]		22.0	22.0	22.0	1.10	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE850 (Band 5) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.7	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin	
	Back facing phantom	Estimated SAR	-	0.324	-	-	0.381	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.378	-	-	0.444	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.014	-	-	0.016	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.389	-	-	0.457	-	0.00	-
		Full SAR	-	0.388	-	-	0.456	-		
	Left edge facing phantom	Estimated SAR	-	0.294	-	-	0.345	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom		-	0.142	-	-	0.167	-	-	-
			-	-	-	-	-	-		
CC-3085 Bottom facing phantom	Estimated SAR	-	0.405	-	-	0.476	-	0.02	-	
	Full SAR	-	0.387	-	-	0.455	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.7	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]		22.7	22.7	22.7	1.17	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]		22.7	22.7	22.6	1.17	1.17	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE850 (Band 5) WR SAR / Antenna 2 Table continues)

(LTE850 (Band 5) WR SAR / Antenna 2 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
	Back facing phantom	Estimated SAR	0.297	-	-	0.341	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	0.324	-	-	0.372	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	0.011	-	-	0.013	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.324	-	-	0.372	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	0.257	-	-	0.295	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	0.144	-	-	0.165	-	-	-	-
		Full SAR	-	-	-	-	-	-		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.7	21.7	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		21.8	21.7	21.7	1.15	1.17	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.8	21.8	21.8	0.6	0.6	0.6	dB	
	Time-averaged power [dBm]		21.8	21.8	21.8	1.15	1.15	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

WCDMA1700/2100 Wireless Router SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.7	21.9	22.0	0.7	0.5	0.4	dB	
	Time-averaged power [dBm]		21.7	21.9	22.0	1.17	1.12	1.10	Lin	
	Back facing phantom	Estimated SAR	0.809	0.794	0.797	0.950	0.891	0.874	0.01	-
		Full SAR	0.820	-	-	0.963	-	-		
	Display facing phantom	Estimated SAR	0.725	0.744	0.739	0.852	0.835	0.810	0.05	-
		Full SAR	0.675	-	-	0.793	-	-		
	Top edge facing phantom	Estimated SAR	-	0.061	-	-	0.068	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.546	-	-	0.613	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.081	-	-	0.091	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.219	-	-	0.246	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	0.768	0.789	0.786	0.902	0.885	0.862	0.01	-
		Full SAR	0.779	-	-	0.915	-	-		
	Repeated SAR Back facing phantom	Estimated SAR	0.794	-	-	0.933	-	-	0.04	-
		Full SAR	0.833	-	-	0.979	-	-		

WCDMA1700/2100 Wireless Router SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		21.2	21.4	21.5	1.2	1.0	0.9	dB	
	Time-averaged power [dBm]		21.2	21.4	21.5	1.32	1.26	1.23	Lin	
	Back facing phantom	Estimated SAR	0.775	0.753	0.717	1.02	0.948	0.882	0.02	-
		Full SAR	0.756	-	-	0.997	-	-		
	Display facing phantom	Estimated SAR	-	0.553	-	-	0.696	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.038	-	-	0.048	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.316	-	-	0.398	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.240	-	-	0.302	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.186	-	-	0.234	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	0.775	0.727	0.672	1.02	0.915	0.827	0.01	31
		Full SAR	0.768	-	-	1.01	-	-		

LTE1700/2100 (Band 4) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.4	21.4	21.5	0.5	0.5	0.4	dB	
	Time-averaged power [dBm]		21.4	21.4	21.5	1.12	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.3	21.5	21.4	0.6	0.4	0.5	dB	
	Time-averaged power [dBm]		21.3	21.5	21.4	1.15	1.10	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.715	-	-	0.784	-	0.01	-
		Full SAR	-	0.710	-	-	0.778	-		
	Display facing phantom	Estimated SAR	-	0.681	-	-	0.747	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.062	-	-	0.068	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.435	-	-	0.477	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.085	-	-	0.093	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.142	-	-	0.156	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	-	0.668	-	-	0.732	-	0.00	-
Full SAR		-	0.670	-	-	0.735	-			
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.4	21.4	21.5	0.5	0.5	0.4	dB	
	Time-averaged power [dBm]		21.4	21.4	21.5	1.12	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE1700/2100 (Band 4) WR SAR / Antenna 1 Table continues)

(LTE1700/2100 (Band 4) WR SAR / Antenna 1 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.4	20.4	20.6	0.5	0.5	0.3	dB	
	Time-averaged power [dBm]		20.4	20.4	20.6	1.12	1.12	1.07	Lin	
	Back facing phantom	Estimated SAR	-	-	0.594	-	-	0.636	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	-	0.572	-	-	0.613	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	-	0.044	-	-	0.047	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	-	0.353	-	-	0.378	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	-	0.076	-	-	0.081	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	-	0.148	-	-	0.159	-	-
		Full SAR	-	-	-	-	-	-		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.3	20.5	20.5	0.6	0.4	0.4	dB	
	Time-averaged power [dBm]		20.3	20.5	20.5	1.15	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.4	20.4	20.5	0.5	0.5	0.4	dB	
	Time-averaged power [dBm]		20.4	20.4	20.5	1.12	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.4	20.5	20.6	0.5	0.4	0.3	dB	
	Time-averaged power [dBm]		20.4	20.5	20.6	1.12	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1700/2100 (Band 4) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		20.9	20.9	21.0	1.0	1.0	0.9	dB	
	Time-averaged power [dBm]		20.9	20.9	21.0	1.26	1.26	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		20.8	21.0	20.9	1.1	0.9	1.0	dB	
	Time-averaged power [dBm]		20.8	21.0	20.9	1.29	1.23	1.26	Lin	
	Back facing phantom	Estimated SAR	-	0.637	-	-	0.784	-	0.01	32
		Full SAR	-	0.647	-	-	0.796	-		
	Display facing phantom	Estimated SAR	-	0.573	-	-	0.705	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.035	-	-	0.043	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.233	-	-	0.287	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.220	-	-	0.271	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.169	-	-	0.208	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	-	0.610	-	-	0.750	-	0.00	-
Full SAR		-	0.606	-	-	0.746	-			
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		20.9	20.9	21.0	1.0	1.0	0.9	dB	
	Time-averaged power [dBm]		20.9	20.9	21.0	1.26	1.26	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE1700/2100 (Band 4) WR SAR / Antenna 2 Table continues)

(LTE1700/2100 (Band 4) WR SAR / Antenna 2 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		19.9	19.9	20.1	1.0	1.0	0.8	dB	
	Time-averaged power [dBm]		19.9	19.9	20.1	1.26	1.26	1.20	Lin	
	Back facing phantom	Estimated SAR	-	-	0.492	-	-	0.592	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	-	0.446	-	-	0.536	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	-	0.026	-	-	0.031	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	-	0.182	-	-	0.219	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	-	0.180	-	-	0.216	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	-	0.134	-	-	0.161	-	-
		Full SAR	-	-	-	-	-	-		
10MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		19.8	20.0	20.0	1.1	0.9	0.9	dB	
	Time-averaged power [dBm]		19.8	20.0	20.0	1.29	1.23	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		19.9	19.9	20.0	1.0	1.0	0.9	dB	
	Time-averaged power [dBm]		19.9	19.9	20.0	1.26	1.26	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		19.9	20.0	20.1	1.0	0.9	0.8	dB	
	Time-averaged power [dBm]		19.9	20.0	20.1	1.26	1.23	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

GSM/GPRS/EGPRS/WCDMA1900 Wireless Router SAR results /Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 512	Ch 661	Ch 810	Ch 512	Ch 661	Ch 810		
			1850.2 MHz	1880.0 MHz	1909.8 MHz	1850.2 MHz	1880.0 MHz	1909.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		29.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.6	29.6	29.4	0.3	0.3	0.5	dB	
	Time-averaged power [dBm]		20.6	20.6	20.4	1.07	1.07	1.12	Lin	
2-slot GPRS	Tuning Target + Tolerance [dBm]		29.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.2	29.1	28.8	0.2	0.3	0.6	dB	
	Time-averaged power [dBm]		23.2	23.1	22.8	1.05	1.07	1.15	Lin	
	Back facing phantom	Estimated SAR	0.835	0.830	0.832	0.874	0.889	0.955	0.01	-
		Full SAR	-	-	0.845	-	-	0.970		
	Display facing phantom	Estimated SAR	0.878	0.852	0.905	0.919	0.913	1.04	0.05	-
		Full SAR	-	-	0.955	-	-	1.10		
	Top edge facing phantom	Estimated SAR	-	0.074	-	-	0.080	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.643	-	-	0.689	-	-	-
		Full SAR	-	0.671	-	-	0.719	-		
	Left edge facing phantom	Estimated SAR	-	0.145	-	-	0.155	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.228	-	-	0.244	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Display facing phantom	Estimated SAR	0.872	0.956	0.955	0.913	1.02	1.10	0.04	-
		Full SAR	-	-	0.994	-	-	1.14		
	Repeated SAR CC-3085 Display facing phantom	Estimated SAR	-	-	0.954	-	-	1.10	0.04	33
		Full SAR	-	-	0.990	-	-	1.14		
3-slot GPRS	Tuning Target + Tolerance [dBm]		27.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.3	27.2	27.0	0.3	0.4	0.6	dB	
	Time-averaged power [dBm]		23.0	22.9	22.7	1.07	1.10	1.15	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		25.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.9	25.9	25.7	0.0	0.0	0.2	dB	
	Time-averaged power [dBm]		22.9	22.9	22.7	1.00	1.00	1.05	Lin	
			No testing required for this slot configuration.							

(GSM/GPRS/EGPRS/WCDMA1900 WR SAR / Antenna 1 Table continues)

WCDMA1900 Wireless Router SAR results /Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		21.4	21.3	21.3	0.5	0.6	0.6	dB	
	Time-averaged power [dBm]		21.4	21.3	21.3	1.12	1.15	1.15	Lin	
	Back facing phantom	Estimated SAR	0.757	0.747	0.702	0.849	0.858	0.806	0.02	-
		Full SAR	-	0.769	-	-	0.883	-		
	Display facing phantom	Estimated SAR	0.811	0.809	0.771	0.910	0.929	0.885	0.02	-
		Full SAR	-	0.833	-	-	0.956	-		
	Top edge facing phantom	Estimated SAR	-	0.048	-	-	0.055	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.550	-	-	0.631	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.131	-	-	0.150	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.215	-	-	0.247	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Display facing phantom	Estimated SAR	0.779	0.834	0.878	0.874	0.958	1.01	0.04	34
		Full SAR	-	-	0.920	-	-	1.06		
	Repeated SAR CC-3085 Display facing phantom	Estimated SAR	-	-	0.865	-	-	0.993	0.05	-
		Full SAR	-	-	0.911	-	-	1.05		

WCDMA1900 Wireless Router SAR results /Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		21.9			Scaling factor*				
	Conducted Power [dBm]		20.9	20.8	20.8	1.0	1.1	1.1	dB	
	Time-averaged power [dBm]		20.9	20.8	20.8	1.26	1.29	1.29	Lin	
	Back facing phantom	Estimated SAR	0.688	0.653	0.611	0.866	0.841	0.787	0.02	-
		Full SAR	0.669	-	-	0.842	-	-		
	Display facing phantom	Estimated SAR	-	0.457	-	-	0.589	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.037	-	-	0.047	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.380	-	-	0.490	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.273	-	-	0.352	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.155	-	-	0.200	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Back facing phantom	Estimated SAR	0.654	0.634	0.599	0.823	0.817	0.772	0.03	-
		Full SAR	0.681	-	-	0.857	-	-		

LTE1900 (Band 2) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.1	0.4	0.3	0.3	dB	
	Time-averaged power [dBm]		21.0	21.1	21.1	1.10	1.07	1.07	Lin	
	Back facing phantom	Estimated SAR	-	0.695	-	-	0.745	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.700	-	-	0.750	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.044	-	-	0.047	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.724	-	-	0.776	-	0.03	35
		Full SAR	-	0.758	-	-	0.812	-		
	Left edge facing phantom	Estimated SAR	-	0.059	-	-	0.063	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.261	-	-	0.280	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Bottom edge facing phantom	Estimated SAR	-	0.723	-	-	0.775	-	0.02	-	
	Full SAR	-	0.738	-	-	0.791	-			
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.0	21.1	0.4	0.4	0.3	dB	
	Time-averaged power [dBm]		21.0	21.0	21.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	20.9	21.0	0.4	0.5	0.4	dB	
	Time-averaged power [dBm]		21.0	20.9	21.0	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE1900 (Band 2) WR SAR results / Antenna 1 Table continues)

(LTE1900 (Band 2) WR SAR results / Antenna 1 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	20.0	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]		20.0	20.0	20.0	1.10	1.10	1.10	Lin	
	Back facing phantom	Estimated SAR	-	0.563	-	-	0.617	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.564	-	-	0.618	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.035	-	-	0.038	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.569	-	-	0.624	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.047	-	-	0.052	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.202	-	-	0.221	-	-	-
		Full SAR	-	-	-	-	-	-		
20MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	19.9	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		20.0	20.0	19.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		19.9	20.0	19.9	0.5	0.4	0.5	dB	
	Time-averaged power [dBm]		19.9	20.0	19.9	1.12	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	19.9	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		20.0	20.0	19.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1900 (Band 2) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.5	20.6	20.6	0.5	0.4	0.4	dB	
	Time-averaged power [dBm]		20.5	20.6	20.6	1.12	1.10	1.10	Lin	
	Back facing phantom	Estimated SAR	-	0.561	-	-	0.615	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.569	-	-	0.624	-	0.02	-
		Full SAR	-	0.587	-	-	0.644	-		
	Top edge facing phantom	Estimated SAR	-	0.041	-	-	0.045	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.164	-	-	0.180	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.336	-	-	0.368	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.068	-	-	0.075	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Display facing phantom	Estimated SAR	-	0.587	-	-	0.644	-	0.01	-
		Full SAR	-	0.592	-	-	0.649	-		
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.5	20.5	20.6	0.9	0.9	0.8	dB	
	Time-averaged power [dBm]		20.5	20.5	20.6	1.23	1.23	1.20	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.5	20.4	20.5	0.9	1.0	0.9	dB	
	Time-averaged power [dBm]		20.5	20.4	20.5	1.23	1.26	1.23	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE1900 (Band 2) WR SAR results / Antenna 2 Table continues)

(LTE1900 (Band 2) WR SAR results / Antenna 2 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		19.5	19.5	19.5	0.9	0.9	0.9	dB	
	Time-averaged power [dBm]		19.5	19.5	19.5	1.23	1.23	1.23	Lin	
	Back facing phantom	Estimated SAR	-	0.434	-	-	0.534	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.444	-	-	0.546	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.033	-	-	0.041	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.148	-	-	0.182	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.256	-	-	0.315	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.056	-	-	0.069	-	-	-
		Full SAR	-	-	-	-	-	-		
20MHz Ch BW 50% RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	19.9	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		20.0	20.0	19.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50% RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		19.9	20.0	19.9	0.5	0.4	0.5	dB	
	Time-averaged power [dBm]		19.9	20.0	19.9	1.12	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	19.9	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		20.0	20.0	19.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE2500 (Band 7) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.1	20.5	20.4	0.8	0.4	0.5	dB	
	Time-averaged power [dBm]		20.1	20.5	20.4	1.20	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.2	20.5	20.6	0.7	0.4	0.3	dB	
	Time-averaged power [dBm]		20.2	20.5	20.6	1.17	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.6	20.6	20.6	0.3	0.3	0.3	dB	
	Time-averaged power [dBm]		20.6	20.6	20.6	1.07	1.07	1.07	Lin	
	Back facing phantom	Estimated SAR	-	0.670	-	-	0.718	-	0.01	-
		Full SAR	-	0.660	-	-	0.707	-		
	Display facing phantom	Estimated SAR	-	0.575	-	-	0.616	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.018	-	-	0.019	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.927	0.789	0.755	0.993	0.845	0.809	0.03	-
		Full SAR	0.896	-	-	0.960	-	-		
	Left edge facing phantom	Estimated SAR	-	0.103	-	-	0.110	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.050	-	-	0.054	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3085 Bottom edge facing phantom	Estimated SAR	0.781	0.795	0.723	0.837	0.852	0.775	0.02	-
		Full SAR	-	0.772	-	-	0.827	-		
	Repeated SAR Bottom edge facing phantom	Estimated SAR	0.898	-	-	0.962	-	-	0.02	36
		Full SAR	0.915	-	-	0.980	-	-		
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.2	19.4	19.6	0.7	0.5	0.3	dB	
	Time-averaged power [dBm]		19.2	19.4	19.6	1.17	1.12	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(LTE2500(Band 7) WR SAR / Antenna 2 Table continues)

(LTE2500(Band 7) WR SAR / Antenna 2 Table continues)

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.1	19.4	19.6	0.8	0.5	0.3	dB	
	Time-averaged power [dBm]		19.1	19.4	19.6	1.20	1.12	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.5	19.6	0.6	0.4	0.3	dB	
	Time-averaged power [dBm]		19.3	19.5	19.6	1.15	1.10	1.07	Lin	
	Back facing phantom	Estimated SAR	-	-	0.524	-	-	0.561	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	-	0.464	-	-	0.497	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	-	0.013	-	-	0.014	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	-	0.621	-	-	0.665	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	-	0.091	-	-	0.097	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	-	0.047	-	-	0.050	-	-
		Full SAR	-	-	-	-	-	-		
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.4	19.6	0.6	0.5	0.3	dB	
	Time-averaged power [dBm]		19.3	19.4	19.6	1.15	1.12	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

2450MHz Wireless Router SAR results

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz	Ch 1 2412.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz		
WLAN b-mode BPSK 1 Mbps	Tuning Target + Tolerance [dBm]		17.5			Scaling factor*				
	Conducted Power [dBm]		16.2	16.4	16.5	1.4	1.1	1.1	dB	
	Time-averaged power [dBm]		16.2	16.4	16.5	1.36	1.29	1.27	Lin	
	Back facing phantom	Estimated SAR	0.162	0.174	0.196	0.221	0.225	0.250	0.02	37
		Full SAR	-	-	0.215	-	-	0.274		
	Display facing phantom	Estimated SAR	-	0.111	-	-	0.144	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.115	-	-	0.149	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.023	-	-	0.030	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.028	-	-	0.036	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.062	-	-	0.081	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3085 Back facing phantom	Estimated SAR	0.164	0.182	0.198	0.224	0.236	0.252	0.01	-	
	Full SAR	-	-	0.184	-	-	0.234			
Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz	Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 11 2462.0 MHz		
WLAN n-mode 16QAM 26/ 28.9 Mbps	Tuning Target + Tolerance [dBm]		17.5			Scaling factor*				
	Conducted Power [dBm]		16.6	16.7	-	0.9	0.9	-	dB	
	Time-averaged power [dBm]		16.6	16.7	-	1.23	1.22	-	Lin	
	Back facing phantom	Estimated SAR	0.166	0.177	-	0.205	0.215	-	-	-
		Full SAR	-	-	-	-	-	-		

**Simultaneous transmissions: Combined SAR results –
Individual band Max results**

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/ 2100 (Band 4)
Back facing phantom	0.274	0.220	0.282	0.487	0.979
Display facing phantom	0.144	0.207	0.311	0.415	0.793
Top edge facing phantom	0.149	0.009	0.028	0.028	0.068
Bottom edge facing phantom	0.030	0.208	0.444	0.132	0.613
Left edge facing phantom	0.036	0.069	0.047	0.201	0.091
Right edge facing phantom	0.081	0.223	0.257	0.461	0.246
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE1700/ 2100 (Band 4)	2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)	
Back facing phantom	0.778	0.970	0.883	0.745	
Display facing phantom	0.747	1.14	1.06	0.750	
Top edge facing phantom	0.068	0.080	0.055	0.047	
Bottom edge facing phantom	0.477	0.719	0.631	0.812	
Left edge facing phantom	0.093	0.155	0.150	0.063	
Right edge facing phantom	0.159	0.244	0.247	0.280	

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	2-slot GPRS850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/ 2100 (Band 4)
Back facing phantom	0.274	0.656	0.773	0.861	0.381	1.01
Display facing phantom	0.144	0.528	0.561	0.717	0.444	0.696
Top edge facing phantom	0.149	0.022	0.020	0.028	0.016	0.048
Bottom edge facing phantom	0.030	0.249	0.342	0.408	0.456	0.398
Left edge facing phantom	0.036	0.497	0.500	0.664	0.345	0.302
Right edge facing phantom	0.081	0.302	0.304	0.426	0.167	0.234
Test configuration	Max. Reported* 1g SAR results					
	Antenna 2					
	LTE1700/ 2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)		
Back facing phantom	0.796	0.857	0.615	0.707		
Display facing phantom	0.705	0.589	0.649	0.616		
Top edge facing phantom	0.043	0.047	0.045	0.019		
Bottom edge facing phantom	0.287	0.490	0.182	0.980		
Left edge facing phantom	0.271	0.352	0.368	0.110		
Right edge facing phantom	0.208	0.200	0.075	0.054		

**Simultaneous transmissions: Combined SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Back facing phantom	0.494	0.556	0.761	1.25
Display facing phantom	0.351	0.455	0.559	0.937
Top edge facing phantom	0.158	0.177	0.177	0.217
Bottom edge facing phantom	0.238	0.474	0.162	0.643
Left edge facing phantom	0.105	0.083	0.237	0.127
Right edge facing phantom	0.304	0.338	0.542	0.327
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Back facing phantom	1.05	1.24	1.16	1.02
Display facing phantom	0.891	1.28	1.20	0.894
Top edge facing phantom	0.217	0.229	0.204	0.196
Bottom edge facing phantom	0.507	0.749	0.661	0.842
Left edge facing phantom	0.129	0.191	0.186	0.099
Right edge facing phantom	0.240	0.325	0.328	0.361

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Back facing phantom	0.930	1.05	1.14	0.655	1.28
Display facing phantom	0.672	0.705	0.861	0.588	0.84
Top edge facing phantom	0.171	0.169	0.177	0.165	0.197
Bottom edge facing phantom	0.279	0.372	0.438	0.486	0.428
Left edge facing phantom	0.533	0.536	0.700	0.381	0.338
Right edge facing phantom	0.383	0.385	0.507	0.248	0.315
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	1.07	1.13	0.889	0.981	
Display facing phantom	0.849	0.733	0.793	0.760	
Top edge facing phantom	0.192	0.196	0.194	0.168	
Bottom edge facing phantom	0.317	0.520	0.212	1.01	
Left edge facing phantom	0.307	0.388	0.404	0.146	
Right edge facing phantom	0.289	0.281	0.156	0.135	

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product.

7.3.1 Combined Body SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Back facing phantom	-	-	0.562	-
Display facing phantom	-	-	-	-
Top edge facing phantom	-	-	-	-
Bottom edge facing phantom	-	-	-	-
Left edge facing phantom	-	-	-	-
Right edge facing phantom	-	-	-	-
Test configuration	Max. Reported* 1g SAR results			
	Antenna 1 + WLAN			
	LTE1700/ 2100 (Band 4) + WLAN	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN
Back facing phantom	-	-	-	0.774
Display facing phantom	-	1.13	1.04	-
Top edge facing phantom	-	-	-	-
Bottom edge facing phantom	-	-	-	-
Left edge facing phantom	-	-	-	-
Right edge facing phantom	-	-	-	-

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN
Back facing phantom	0.665	0.798	0.912	-	1.04
Display facing phantom	-	-	-	-	-
Top edge facing phantom	-	-	-	-	-
Bottom edge facing phantom	-	-	-	-	-
Left edge facing phantom	-	-	-	-	-
Right edge facing phantom	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	0.816	-	-	-	
Display facing phantom	-	-	-	-	
Top edge facing phantom	-	-	-	-	
Bottom edge facing phantom	-	-	-	0.985	
Left edge facing phantom	-	-	-	-	
Right edge facing phantom	-	-	-	-	

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product. The Combined SAR data given in the tables above has been voluntarily calculated.

Plots of the Measurement scans are given in Appendix B.

APPENDIX A: SYSTEM CHECK SCANS

Plot1:

Date/Time: 2014-04-11 8:01:23 AM

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1010

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: T=21.5C

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 40.456$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.32, 6.32, 6.32); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM 4 06-28-2013; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 53.033 V/m

Fast SAR: SAR(1 g) = 2.31 W/kg

Fast SAR(10 g) = 1.57 W/kg

Maximum value of SAR (interpolated) = 2.64 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 53.033 V/m

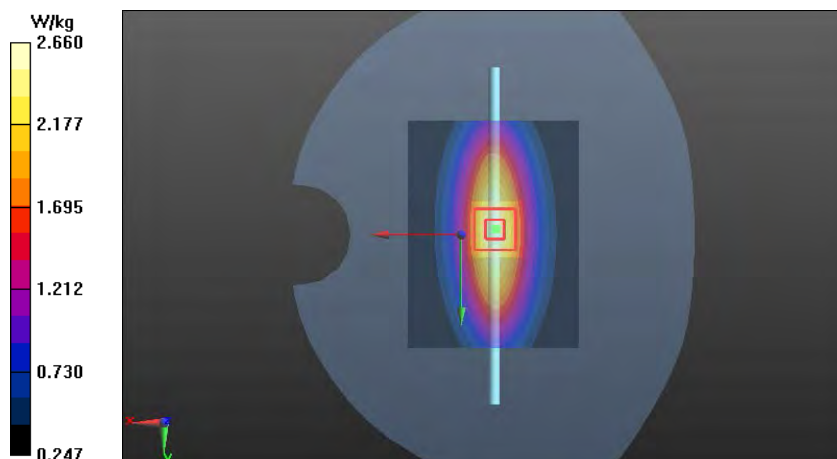
Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 2.27 W/kg

SAR(10 g) = 1.49 W/kg

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 2.66 W/kg



SAR Report

Appendix A for FCC_RM-975_03

Applicant: Nokia Corporation

Type: RM-975

Copyright © 2014 TCC Nokia

Plot2:

Date/Time: 2014-04-10 7:55:04 AM

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN 4d040

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=21.5C

Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ S/m; $\epsilon_r = 40.288$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.12, 6.12, 6.12); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM1 01-28-2014; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 56.709 V/m

Fast SAR: SAR(1 g) = 2.63 W/kg

Fast SAR(10 g) = 1.77 W/kg

Maximum value of SAR (interpolated) = 3.03 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 56.709 V/m

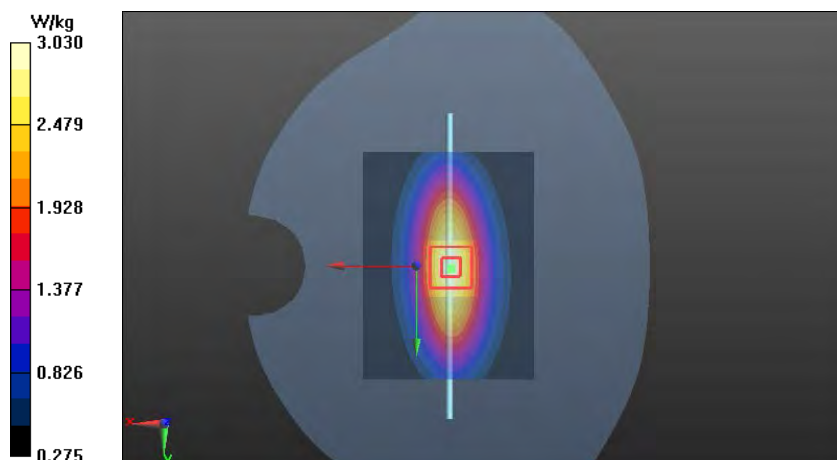
Peak SAR (extrapolated) = 3.86 W/kg

SAR(1 g) = 2.59 W/kg

SAR(10 g) = 1.69 W/kg

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 3.03 W/kg



Plot3:

Date/Time: 2014-04-11 8:23:39 AM

Test Laboratory: TCC Nokia

Type: D1750V2; Serial: D1750V2 - SN:1081

Communication System: CW 1750

Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium Notes: T=21.5C

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 40.437$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.25, 5.25, 5.25); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM1 04/25/2013; Type: QD000P40CD; Serial: TP: 1735
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 89.394 V/m

Fast SAR: SAR(1 g) = 9.51 W/kg

Fast SAR(10 g) = 5.09 W/kg

Maximum value of SAR (interpolated) = 11.8 W/kg

d=10mm, Pin=250mW/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 89.394 V/m

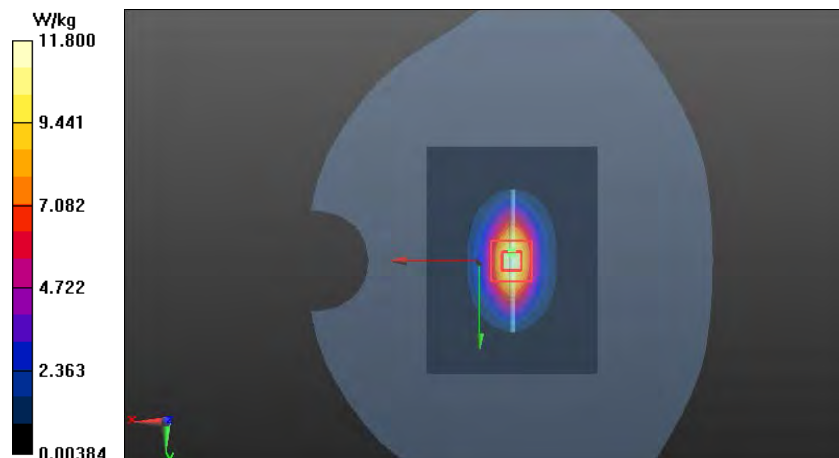
Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 9.32 W/kg

SAR(10 g) = 4.94 W/kg

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 11.7 W/kg



Plot4:

Date/Time: 2014-04-08 9:16:32 AM

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.401$ S/m; $\epsilon_r = 38.558$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 92.745 V/m

Fast SAR: SAR(1 g) = 10.7 W/kg

Fast SAR(10 g) = 5.53 W/kg

Maximum value of SAR (interpolated) = 13.6 W/kg

d=10mm, Pin=250mW/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 92.745 V/m

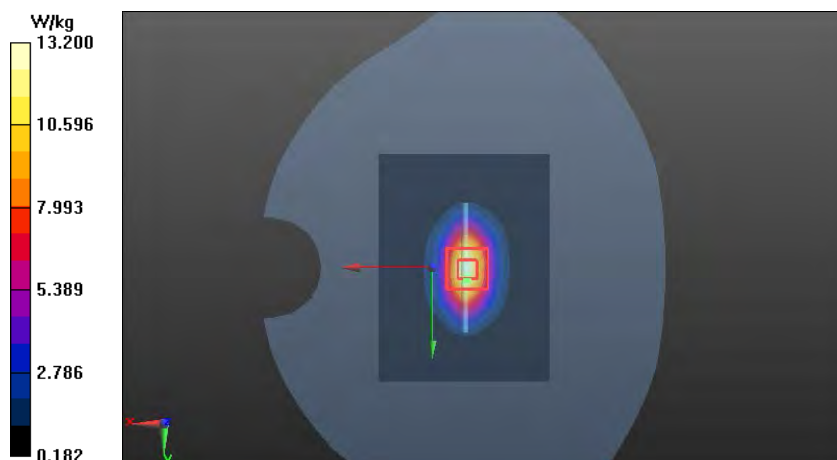
Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 10.5 W/kg

SAR(10 g) = 5.45 W/kg

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 13.2 W/kg



Plot5:

Date/Time: 2014-04-08 8:52:27 AM

Test Laboratory: Nokia

Type: D2450V2; Serial: D2450V2 - SN:800

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450 - 2600; Medium Notes: $t = 21.5$ C

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.816$ S/m; $\epsilon_r = 38.388$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3817
- ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
- Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

Configuration (2450MHz)/d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 99.342 V/m

Fast SAR: SAR(1 g) = 13.9 W/kg

Fast SAR(10 g) = 6.12 W/kg

Maximum value of SAR (interpolated) = 19.0 W/kg

Configuration (2450MHz)/d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.342 V/m

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 13.9 W/kg

SAR(10 g) = 6.49 W/kg

Power Drift = -0.12 dB

Maximum value of SAR (measured) = 18.2 W/kg



SAR Report

Appendix A for FCC_RM-975_03

Applicant: Nokia Corporation

Type: RM-975

Copyright © 2014 TCC Nokia

Plot6:

Date/Time: 2014-04-14 11:39:44 AM

Test Laboratory: TCC Nokia

Type: D2600V2; Serial: D2600V2 - SN:1064

Communication System: CW2600

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2450 - 2600; Medium Notes: T= 21.5 C

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.966$ S/m; $\epsilon_r = 37.357$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(4.25, 4.25, 4.25); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM3 02-04-2014; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW 2/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 96.855 V/m

Fast SAR: SAR(1 g) = 15.5 W/kg

Fast SAR(10 g) = 6.94 W/kg

Maximum value of SAR (interpolated) = 20.5 W/kg

d=10mm, Pin=250mW 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.855 V/m

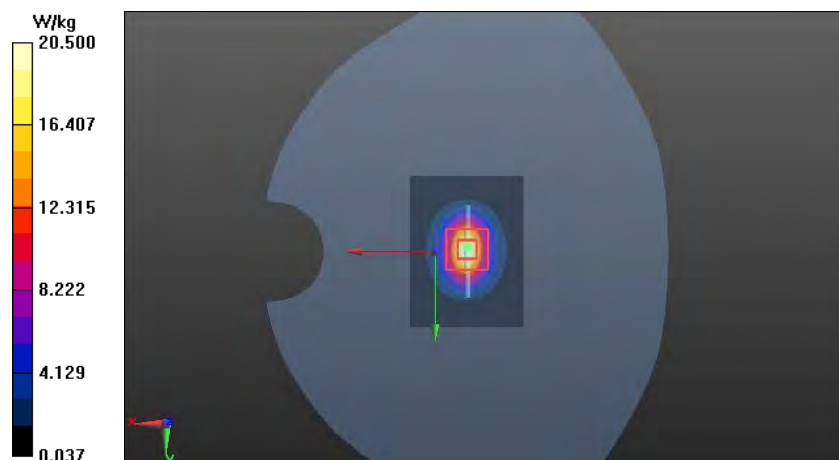
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 15.1 W/kg

SAR(10 g) = 6.71 W/kg

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 20.0 W/kg



Plot7:

Date/Time: 2014-04-18 3:58:55 PM

Test Laboratory: TCC Nokia

Type: D750V3; Serial: D750V3 - SN:1010

Communication System: CW750

Frequency: 750 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: T=21.5C

Medium parameters used: $f = 750$ MHz; $\sigma = 0.944$ S/m; $\epsilon_r = 54.393$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.03, 6.03, 6.03); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 49.139 V/m

Fast SAR: SAR(1 g) = 2.27 W/kg

Fast SAR(10 g) = 1.55 W/kg

Maximum value of SAR (interpolated) = 2.60 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 49.139 V/m

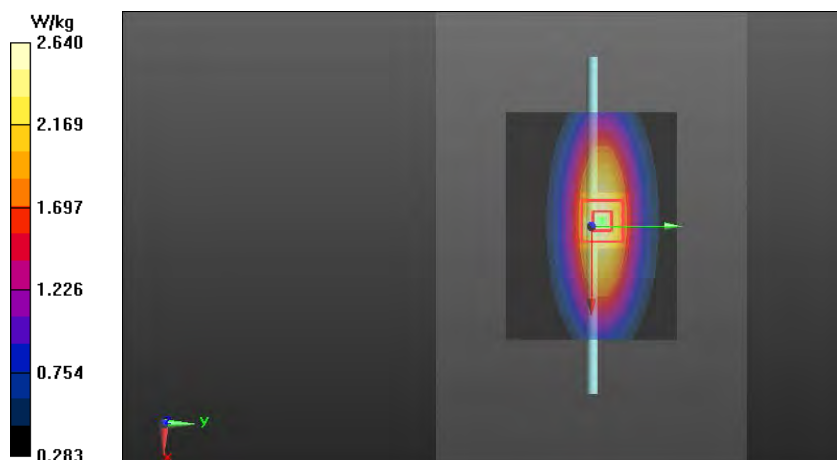
Peak SAR (extrapolated) = 3.31 W/kg

SAR(1 g) = 2.26 W/kg

SAR(10 g) = 1.5 W/kg

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 2.64 W/kg



Plot8:

Date/Time: 2014-04-21 1:37:32 PM

Test Laboratory: TCC Nokia

Type: D835V2; Serial: D835V2 - SN 4d040

Communication System: CW835

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used: $f = 835$ MHz; $\sigma = 0.98$ S/m; $\epsilon_r = 53.269$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 48.077 V/m

Fast SAR: SAR(1 g) = 2.22 W/kg

Fast SAR(10 g) = 1.49 W/kg

Maximum value of SAR (interpolated) = 2.56 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 48.077 V/m

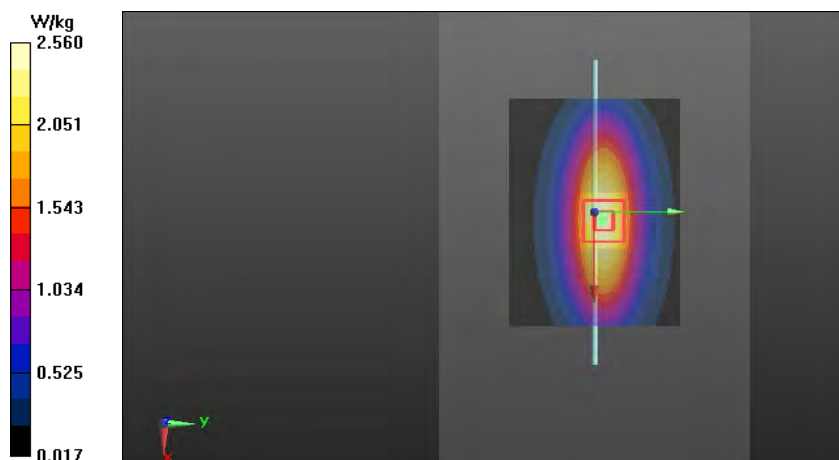
Peak SAR (extrapolated) = 3.21 W/kg

SAR(1 g) = 2.21 W/kg

SAR(10 g) = 1.45 W/kg

Power Drift = -0.00 dB

Maximum value of SAR (measured) = 2.57 W/kg



Plot9:

Date/Time: 2014-04-16 10:23:37 AM

Test Laboratory: TCC Nokia

Type: D1750V2; Serial: D1750V2 - SN:1081

Communication System: CW1750

Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: BSL1750; Medium Notes: T= 21.5c

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.433$ S/m; $\epsilon_r = 53.052$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.9, 4.9, 4.9); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 87.363 V/m

Fast SAR: SAR(1 g) = 9.31 W/kg

Fast SAR(10 g) = 4.88 W/kg

Maximum value of SAR (interpolated) = 11.7 W/kg

d=10mm, Pin=250mW/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 87.363 V/m

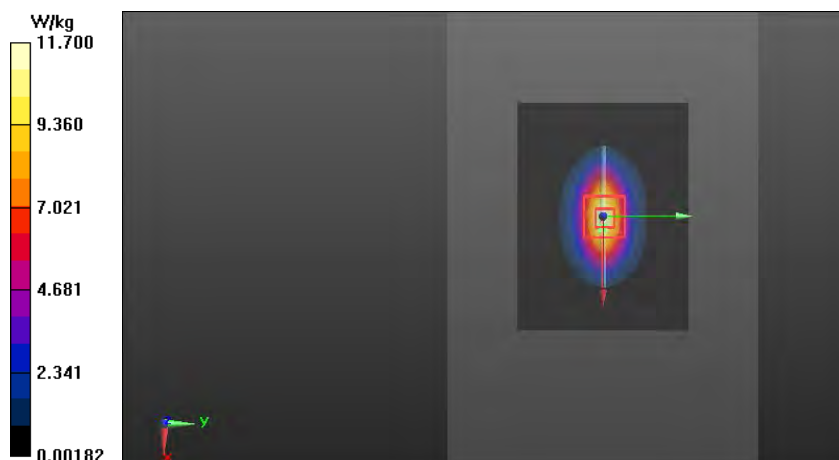
Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 9.22 W/kg

SAR(10 g) = 5 W/kg

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 11.5 W/kg



Plot10:

Date/Time: 2014-04-12 7:33:56 AM

Test Laboratory: TCC Nokia

Type: D1900V2; Serial: D1900V2 - SN:5d099

Communication System: CW1900

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.479$ S/m; $\epsilon_r = 52.233$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

Configuration (1-2GHz)/d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 87.848 V/m

Fast SAR: SAR(1 g) = 9.91 W/kg

Fast SAR(10 g) = 5.01 W/kg

Maximum value of SAR (interpolated) = 13.0 W/kg

Configuration (1-2GHz)/d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 87.848 V/m

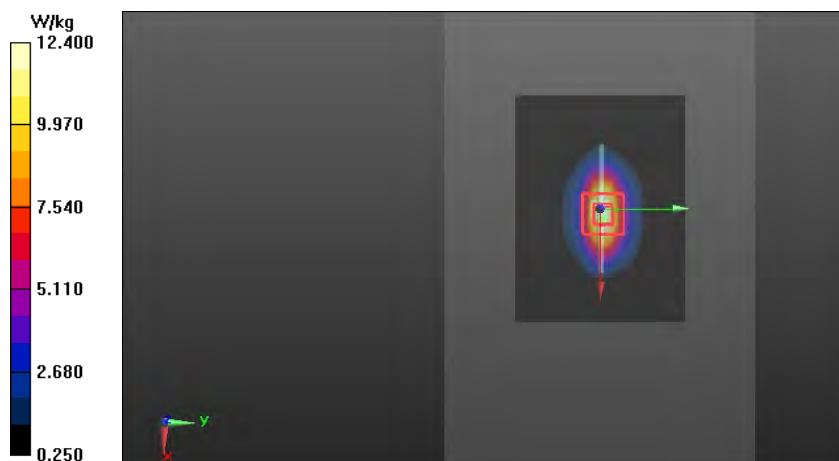
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 9.98 W/kg

SAR(10 g) = 5.3 W/kg

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 12.4 W/kg



Plot11:

Date/Time: 2014-04-11 7:33:42 AM

Test Laboratory: Nokia

Type: D2450V2; Serial: D2450V2 - SN:800

Communication System: CW2450

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: BSL2450 - 2600; Medium Notes: t= 21.5 C

Medium parameters used: f = 2450 MHz; $\sigma = 1.896$ S/m; $\epsilon_r = 53.415$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3817
- ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 2014 Mar 12
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW 2/Area Scan (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 82.409 V/m

Fast SAR: SAR(1 g) = 13 W/kg

Fast SAR(10 g) = 5.63 W/kg

Maximum value of SAR (interpolated) = 17.8 W/kg

d=10mm, Pin=250mW 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.409 V/m

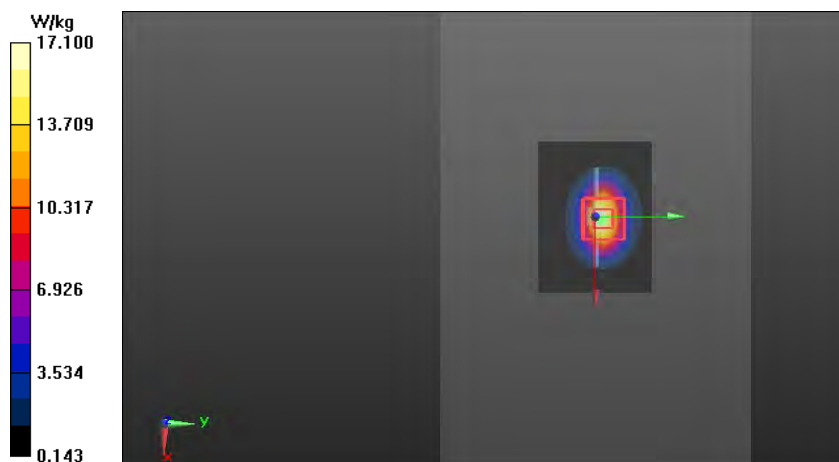
Peak SAR (extrapolated) = 25.9 W/kg

SAR(1 g) = 13.1 W/kg

SAR(10 g) = 6.2 W/kg

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 17.1 W/kg



Plot12:

Date/Time: 2014-04-16 8:22:33 AM

Test Laboratory: TCC Nokia

Type: D2600V2; Serial: D2600V2 - SN:1064

Communication System: CW2600

Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: BSL2450 - 2600; Medium Notes: T= 21.5 C

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.09$ S/m; $\epsilon_r = 53.142$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(3.98, 3.98, 3.98); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 88.815 V/m

Fast SAR: SAR(1 g) = 14.5 W/kg

Fast SAR(10 g) = 6.3 W/kg

Maximum value of SAR (interpolated) = 19.3 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.815 V/m

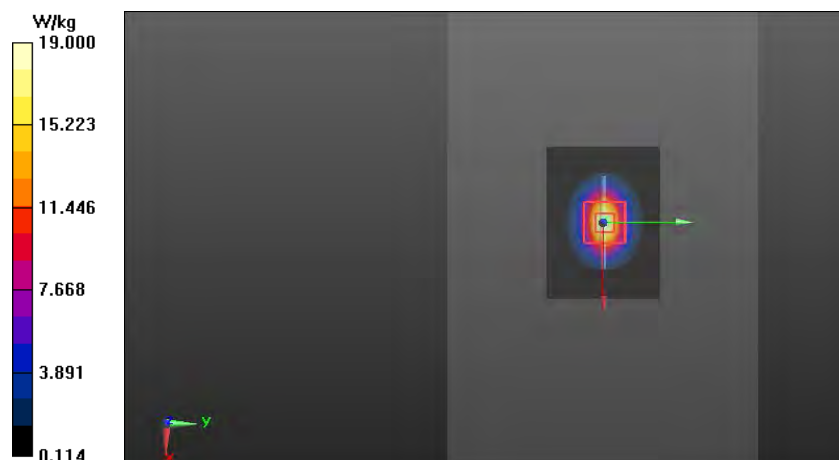
Peak SAR (extrapolated) = 31.3 W/kg

SAR(1 g) = 14.2 W/kg

SAR(10 g) = 6.38 W/kg

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 19.0 W/kg



APPENDIX B: MEASUREMENT SCANS

Plot1:

Date/Time: 2014-04-11 2:12:32 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium Notes: T=21.5C

Medium parameters used: $f = 710$ MHz; $\sigma = 0.857$ S/m; $\epsilon_r = 40.723$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.32, 6.32, 6.32); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM 4 06-28-2013; Type: QD000P40CD; Serial: TP1630
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 100% offset - Antenna 2/Area Scan (81x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.774 V/m

Fast SAR: SAR(1 g) = 0.344 W/kg

Fast SAR(10 g) = 0.245 W/kg

Maximum value of SAR (interpolated) = 0.386 W/kg

LTE700 (Band 17) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 100% offset - Antenna 2/Zoom Scan

(5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.388 V/m

Peak SAR (extrapolated) = 0.425 W/kg

SAR(1 g) = 0.342 W/kg

SAR(10 g) = 0.263 W/kg

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 0.375 W/kg



Plot2:

Date/Time: 2014-04-09 5:45:18 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: 2-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:4.19952

Medium: HSL835; Medium Notes: T=21.5C

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 40.368$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.12, 6.12, 6.12); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM1 01-28-2014; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.10 (7164)

2-slot GPRS850 - Left/Cheek - Low - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid:

$dx=1.500$ mm, $dy=1.500$ mm

Reference Value = 27.396 V/m

Fast SAR: SAR(1 g) = 0.634 W/kg

Fast SAR(10 g) = 0.444 W/kg

Maximum value of SAR (interpolated) = 0.715 W/kg

2-slot GPRS850 - Left/Cheek - Low - Antenna 2 - Cover CC-3085/Zoom Scan (6x6x7)/Cube 0: Measurement grid:

$dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 26.959 V/m

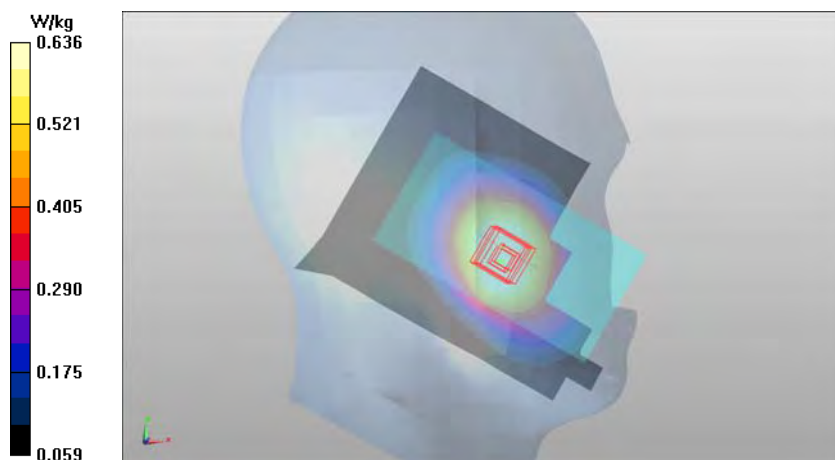
Peak SAR (extrapolated) = 0.749 W/kg

SAR(1 g) = 0.583 W/kg

SAR(10 g) = 0.441 W/kg

Power Drift = -0.02 dB

Maximum value of SAR (measured) = 0.636 W/kg



Plot3:

Date/Time: 2014-04-08 9:42:44 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: WCDMA850 (Band 5)

Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=21.5C

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 40.227$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.12, 6.12, 6.12); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM1 01-28-2014; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.10 (7164)

WCDMA850 (Band 5) - Left/Cheek - Low - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Reference Value = 26.960 V/m

Fast SAR: SAR(1 g) = 0.606 W/kg

Fast SAR(10 g) = 0.426 W/kg

Maximum value of SAR (interpolated) = 0.684 W/kg

WCDMA850 (Band 5) - Left/Cheek - Low - Antenna 2 - Cover CC-3085/Zoom Scan (6x6x7)/Cube 0: Measurement
grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.773 V/m

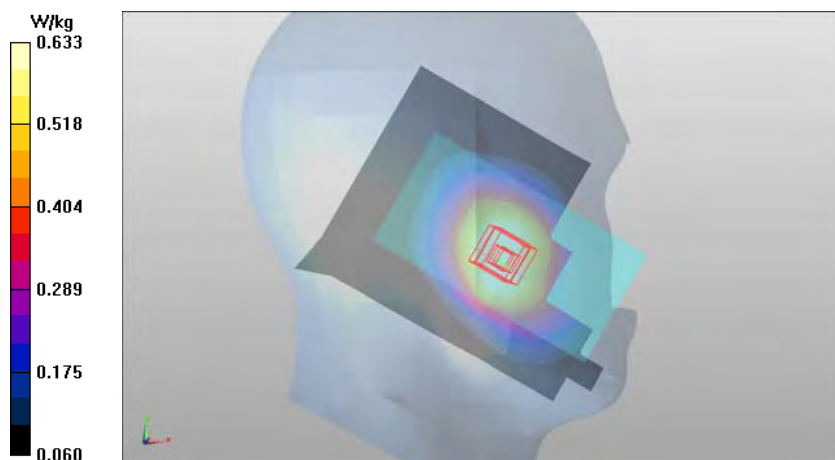
Peak SAR (extrapolated) = 0.742 W/kg

SAR(1 g) = 0.582 W/kg

SAR(10 g) = 0.438 W/kg

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.633 W/kg



Plot4:

Date/Time: 2014-04-10 5:17:11 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium Notes: T=21.5C

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.281$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.12, 6.12, 6.12); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM1 01-28-2014; Type: QD000P40CC; Serial: TP:1279
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.10 (7164)

LTE850 (Band 5) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 0% offset - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.402 V/m

Fast SAR: SAR(1 g) = 0.408 W/kg

Fast SAR(10 g) = 0.286 W/kg

Maximum value of SAR (interpolated) = 0.461 W/kg

LTE850 (Band 5) - Left/Cheek - Middle - QPSK - 10MHz - 1RB - 0% offset - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.402 V/m

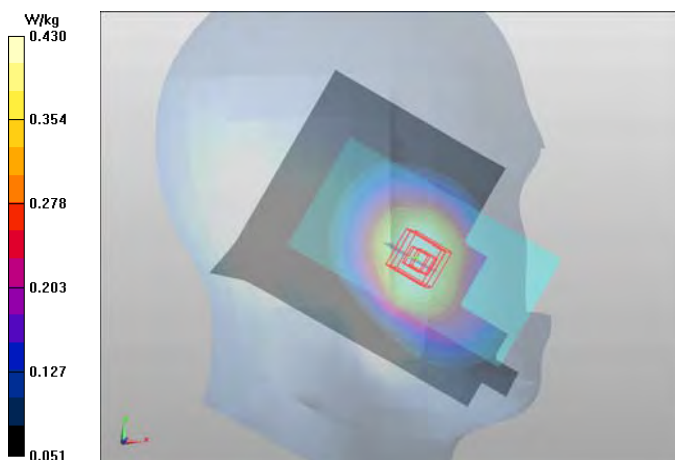
Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.396 W/kg

SAR(10 g) = 0.300 W/kg

Power Drift = 0.05 dB

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



Plot5:

Date/Time: 2014-04-11 1:14:41 AM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium Notes: T=21.5C

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 40.124$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.25, 5.25, 5.25); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM1 04/25/2013; Type: QD000P40CD; Serial: TP: 1735
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

WCDMA1700/2100 (Band 4) - Left/Cheek - Middle - Antenna 2 - Cover CC-3085/Area Scan (81x121x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.533 V/m

Fast SAR: SAR(1 g) = 0.618 W/kg

Fast SAR(10 g) = 0.382 W/kg

Maximum value of SAR (interpolated) = 0.740 W/kg

WCDMA1700/2100 (Band 4) - Left/Cheek - Middle - Antenna 2 - Cover CC-3085/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 24.113 V/m

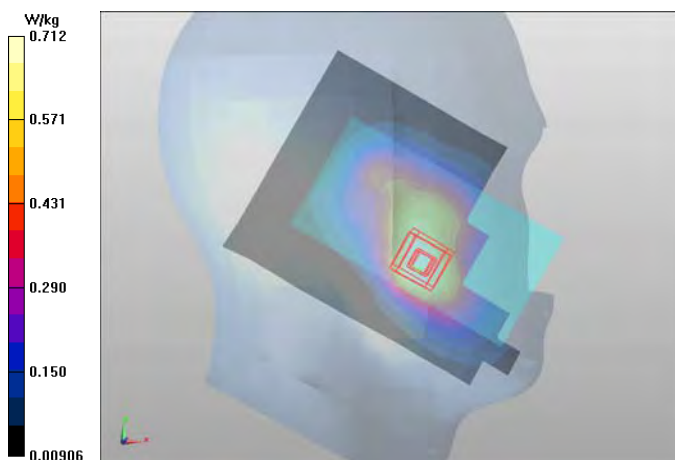
Peak SAR (extrapolated) = 0.917 W/kg

SAR(1 g) = 0.627 W/kg

SAR(10 g) = 0.410 W/kg

Power Drift = -0.06 dB

Maximum value of SAR (measured) = 0.712 W/kg



Plot6:

Date/Time: 2014-04-11 7:13:40 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium Notes: T=21.5C

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.339$ S/m; $\epsilon_r = 40.548$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.25, 5.25, 5.25); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM1 04/25/2013; Type: QD000P40CD; Serial: TP: 1735
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.10 (7164)

LTE1700/2100 (Band 4) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 100% offset - Antenna 2 - Cover CC3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.925 V/m; Power Drift = 0.02 dB

Fast SAR: SAR(1 g) = 0.530 W/kg;

Fast SAR(10 g) = 0.324 W/kg

Maximum value of SAR (interpolated) = 0.651 W/kg

LTE1700/2100 (Band 4) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 100% offset - Antenna 2 - Cover CC3085/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.972 V/m

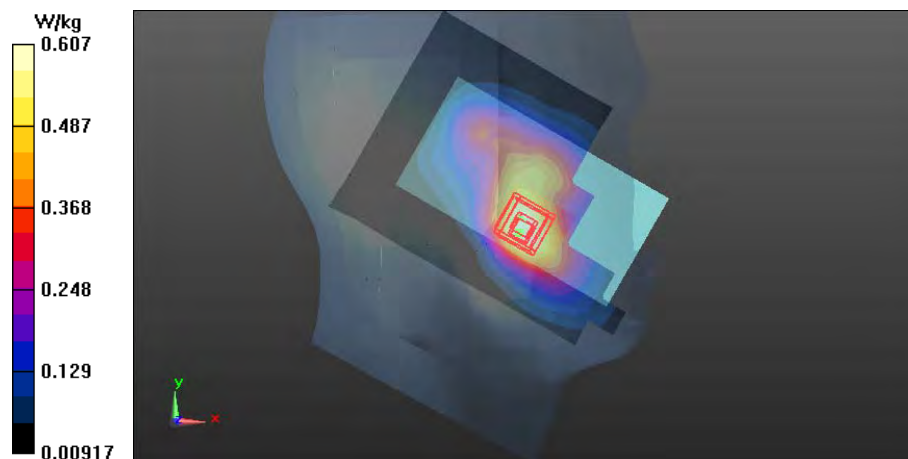
Peak SAR (extrapolated) = 0.788 W/kg

SAR(1 g) = 0.536 W/kg

SAR(10 g) = 0.347 W/kg

Power Drift = 0.01 dB

Maximum value of SAR (measured) = 0.607 W/kg



Plot7:

Date/Time: 2014-04-08 12:24:36 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.19952

Medium: HSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.411$ S/m; $\epsilon_r = 38.515$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS1900 - Left/Cheek - High - Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.293 V/m

Fast SAR: SAR(1 g) = 0.531 W/kg

Fast SAR(10 g) = 0.309 W/kg

Maximum value of SAR (interpolated) = 0.655 W/kg

2-slot GPRS1900 - Left/Cheek - High - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.299 V/m

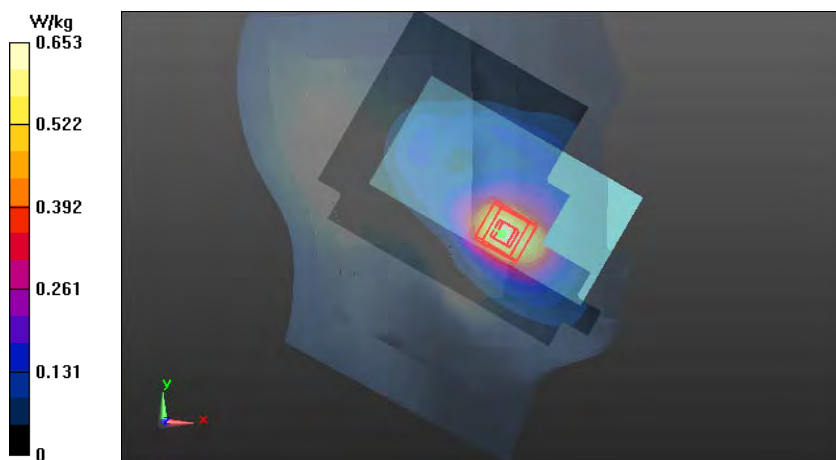
Peak SAR (extrapolated) = 0.841 W/kg

SAR(1 g) = 0.551 W/kg

SAR(10 g) = 0.341 W/kg

Power Drift = -0.04 dB

Maximum value of SAR (measured) = 0.653 W/kg



Plot8:

Date/Time: 2014-04-09 3:55:12 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1900 (Band 2)

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 38.642$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

WCDMA1900 (Band 2) - Left/Cheek - High - Antenna 1 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Reference Value = 23.935 V/m

Fast SAR: SAR(1 g) = 0.701 W/kg

Fast SAR(10 g) = 0.407 W/kg

Maximum value of SAR (interpolated) = 0.869 W/kg

WCDMA1900 (Band 2) - Left/Cheek - High - Antenna 1 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.799 V/m

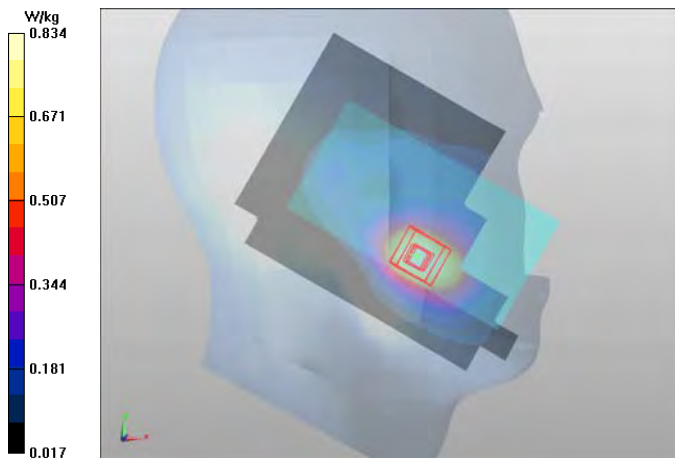
Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.710 W/kg

SAR(10 g) = 0.440 W/kg

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.834 W/kg



Plot9:

Date/Time: 2014-04-10 2:42:03 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1900 (band 2) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 0% offset - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 26.289 V/m

Fast SAR: SAR(1 g) = 0.833 W/kg

Fast SAR(10 g) = 0.483 W/kg

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

LTE1900 (band 2) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 0% offset - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 26.612 V/m

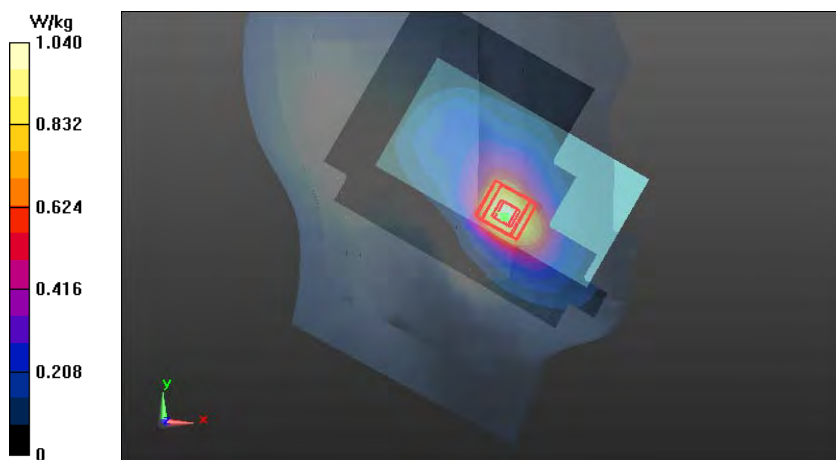
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.882 W/kg

SAR(10 g) = 0.541 W/kg

Power Drift = 0.01 dB

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



Plot10:

Date/Time: 2014-04-14 9:10:26 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804005/2

Communication System: LTE2500 (Band 7)

Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL 2450 - 2600; Medium Notes: T= 21.5 C

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.893$ S/m; $\epsilon_r = 37.59$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(4.25, 4.25, 4.25); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: SAM3 02-04-2014; Type: QD000P40CD; Serial: TP: 1729
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset - Antenna 2 - Cover CC-3085/Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 15.305 V/m

Fast SAR: SAR(1 g) = 0.357 W/kg

Fast SAR(10 g) = 0.180 W/kg

Maximum value of SAR (interpolated) = 0.462 W/kg

LTE2500 (Band 7) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 50% offset - Antenna 2 - Cover CC-3085/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.305 V/m

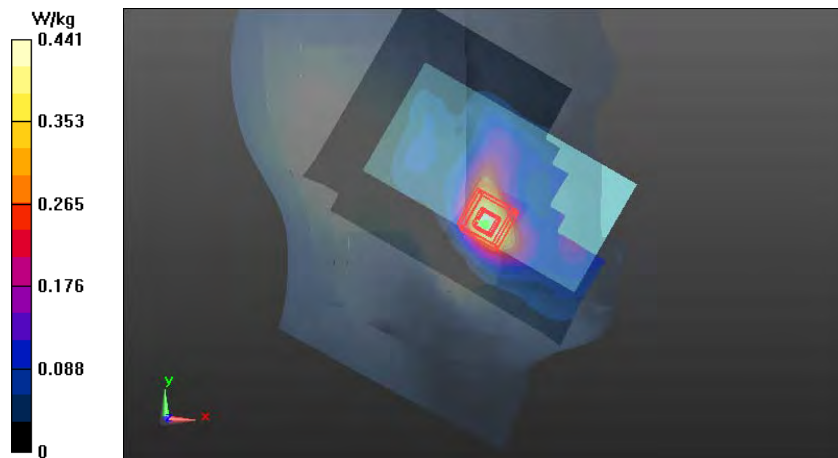
Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.358 W/kg

SAR(10 g) = 0.188 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.441 W/kg



Plot11:

Date/Time: 2014-04-08 4:08:45 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL 2450 - 2600; Medium Notes: t= 21.5 C

Medium parameters used: f = 2462 MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.33$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY Configuration:

- Probe: EX3DV4 - SN3817
- ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
- Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Area Scan (121x181x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value =

Fast SAR: SAR(1 g) = 0.756 W/kg

Fast SAR(10 g) = 0.360 W/kg

Maximum value of SAR (interpolated) = 1.00 W/kg

WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Zoom Scan (7x7x7)/Cube 0:

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

Reference Value = 17.692 V/m

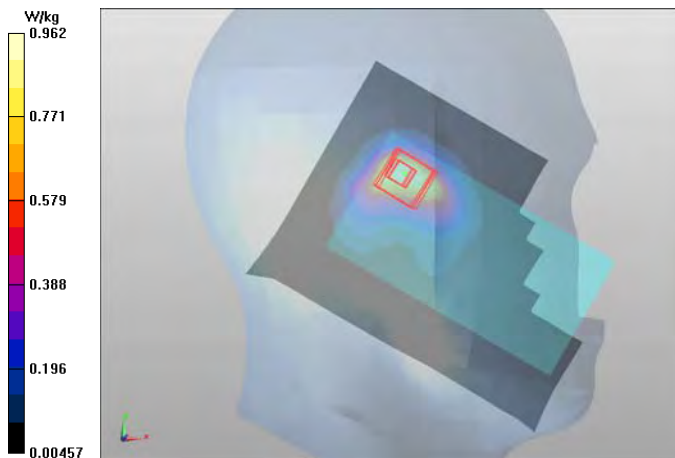
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.723 W/kg

SAR(10 g) = 0.354 W/kg

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 0.962 W/kg



Plot12:

Date/Time: 2014-04-08 9:42:44 PM

DASY Configuration for WCDMA850 (Band 5) - Left/Cheek - Low - Antenna 2 - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: WCDMA850 (Band 5); Frequency: 826.4 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL835 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 40.227$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ES3DV3 - SN3275; ConvF(6.12, 6.12, 6.12); Calibrated: 2014-01-22;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn756; Calibrated: 2014-01-10
Phantom: SAM1 01-28-2014; Type: QD000P40CC; Serial: TP:1279
Measurement SW: DASY52, Version 52.8 (1)

Date/Time: 2014-04-08 4:08:45 PM

DASY Configuration for WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

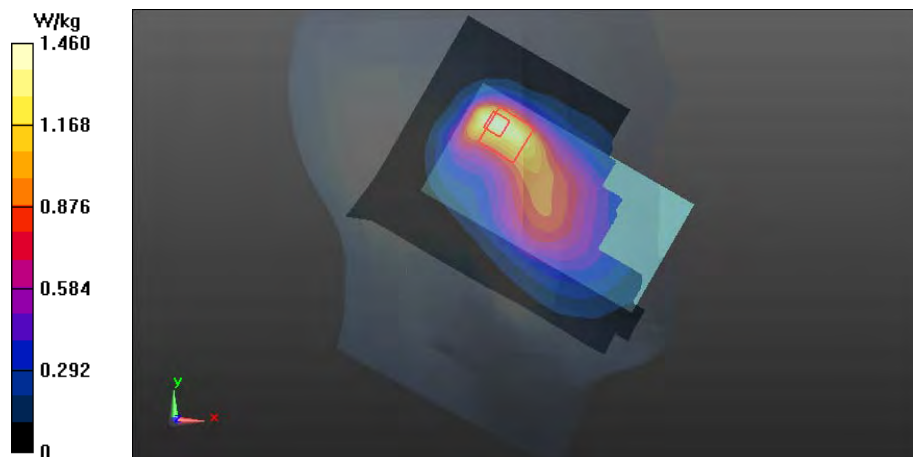
Medium: HSL 2450 - 2600 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.33$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3817; ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
Measurement SW: DASY52, Version 52.8 (7)

Fast SAR of Combined Scans: SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.595 W/kg

Maximum value of SAR (interpolated) = 1.46 W/kg



Note: WCDMA850 result was scaled by a factor of 1.20 and WLAN2450 result was scaled by a factor of 1.27 before combining

Plot13:

Date/Time: 2014-04-11 1:14:41 AM

DASY Configuration for WCDMA1700/2100 (Band 4) - Left/Cheek - Middle - Antenna 2 - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1700/2100 (Band 4); Frequency: 1732.4 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1750 Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 40.124$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: E53DV3 - SN3112; ConvF(5.25, 5.25, 5.25); Calibrated: 2014-01-22;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
Phantom: SAM1 04/25/2013; Type: QD000P40CD; Serial: TP: 1735
Measurement SW: DASY52, Version 52.8 (7)

Date/Time: 2014-04-08 4:08:45 PM

DASY Configuration for WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

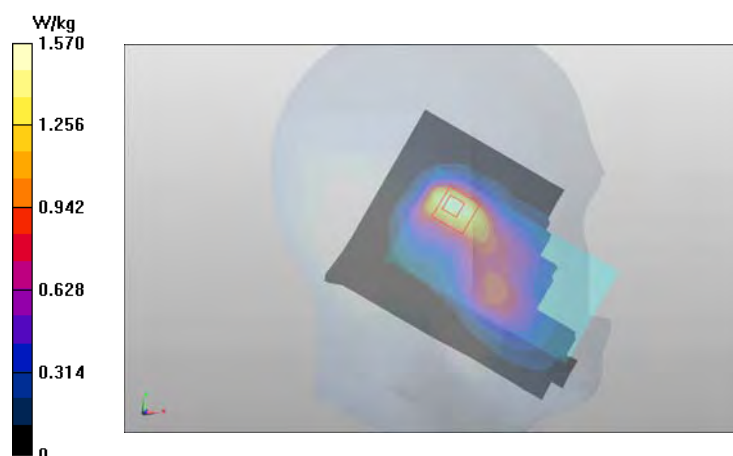
Medium: HSL 2450 - 2600 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.33$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3817; ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
Measurement SW: DASY52, Version 52.8 (7)

Fast SAR of Combined Scans: SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.636 W/kg

Maximum value of SAR (interpolated) = 1.57 W/kg



Note: WCDMA1700/2100 result was scaled by a factor of 1.20 and WLAN2450 result was scaled by a factor of 1.27 before combining

Plot14:

Date/Time: 2014-04-09 3:55:12 PM

DASY Configuration for WCDMA1900 (Band 2) - Left/Cheek - High - Antenna 1 - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1900 (Band 2); Frequency: 1907.6 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1908$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 38.642$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ES3DV3 - SN3112; ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
Measurement SW: DASY52, Version 52.8 (7)

Date/Time: 2014-04-08 4:08:45 PM

DASY Configuration for WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

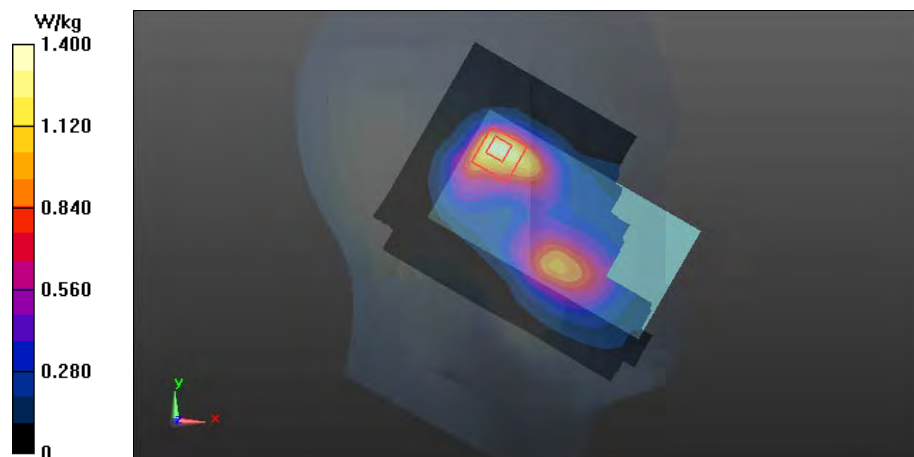
Medium: HSL 2450 - 2600 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.33$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3817; ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
Measurement SW: DASY52, Version 52.8 (7)

Fast SAR of Combined Scans: SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.532 W/kg

Maximum value of SAR (interpolated) = 1.40 W/kg



Note: WCDMA1900 result was scaled by a factor of 1.12 and WLAN2450 result was scaled by a factor of 1.27 before combining

Plot15:

Date/Time: 2014-04-10 2:42:03 PM

DASY Configuration for LTE1900 (band 2) - Left/Cheek - Middle - QPSK - 20MHz - 1RB - 0% offset - Antenna 2 - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: LTE1900 (Band 2); Frequency: 1880 MHz; Duty Cycle: 1:1; PMF: 1

Medium: HSL1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 38.542$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: ES3DV3 - SN3112; ConvF(5.11, 5.11, 5.11); Calibrated: 2014-01-22;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
Phantom: SAM3 06/28/2013; Type: QD000P40CD; Serial: TP: 1630
Measurement SW: DASY52, Version 52.8 (7)

Date/Time: 2014-04-08 4:08:45 PM

DASY Configuration for WLAN2450 b-mode - Left/Cheek - Channel 11 - BPSK 1 Mbps - Cover CC-3085/Area Scan:

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1

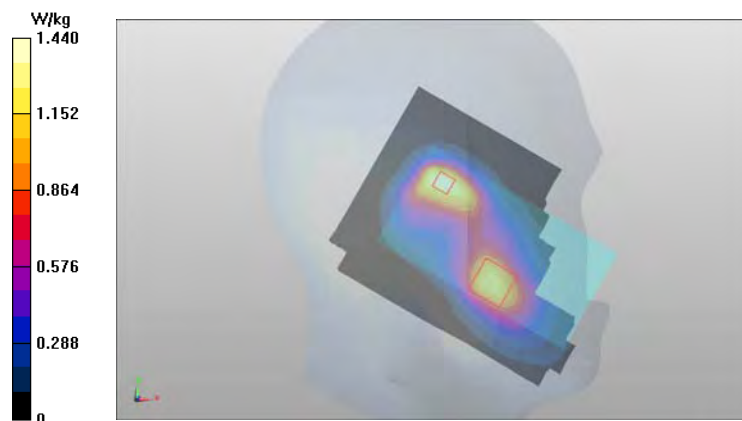
Medium: HSL 2450 - 2600 Medium parameters used: $f = 2462$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 38.33$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Probe: EX3DV4 - SN3817; ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
Phantom: SAM4 2014-04-04; Type: QD000P40CD; Serial: TP:1736
Measurement SW: DASY52, Version 52.8 (7)

Fast SAR of Combined Scans: SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.588 W/kg

Maximum value of SAR (interpolated) = 1.44 W/kg



Note: LTE1900 result was scaled by a factor of 1.20 and WLAN2450 result was scaled by a factor of 1.27 before combining

Plot16:

Date/Time: 2014-04-18 4:47:27 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: T=21.5C

Medium parameters used: $f = 710$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 54.595$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.03, 6.03, 6.03); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 100% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.490 V/m

Fast SAR: SAR(1 g) = 0.431 W/kg

Fast SAR(10 g) = 0.310 W/kg

Maximum value of SAR (interpolated) = 0.482 W/kg

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 100% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.300 V/m

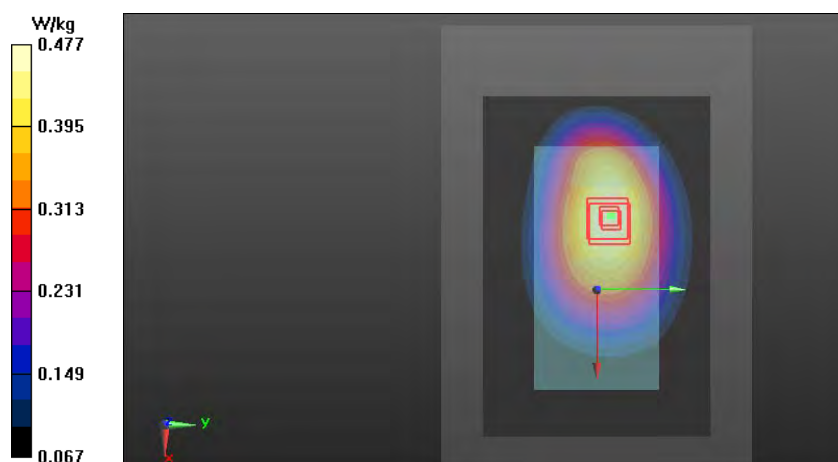
Peak SAR (extrapolated) = 0.550 W/kg

SAR(1 g) = 0.433 W/kg

SAR(10 g) = 0.327 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.477 W/kg



Plot17:

Date/Time: 2014-04-16 5:57:41 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: 2-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:4.19952

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.965$ S/m; $\epsilon_r = 53.538$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS850/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.191 V/m

Fast SAR: SAR(1 g) = 0.520 W/kg

Fast SAR(10 g) = 0.371 W/kg

Maximum value of SAR (interpolated) = 0.586 W/kg

2-slot GPRS850/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.308 V/m

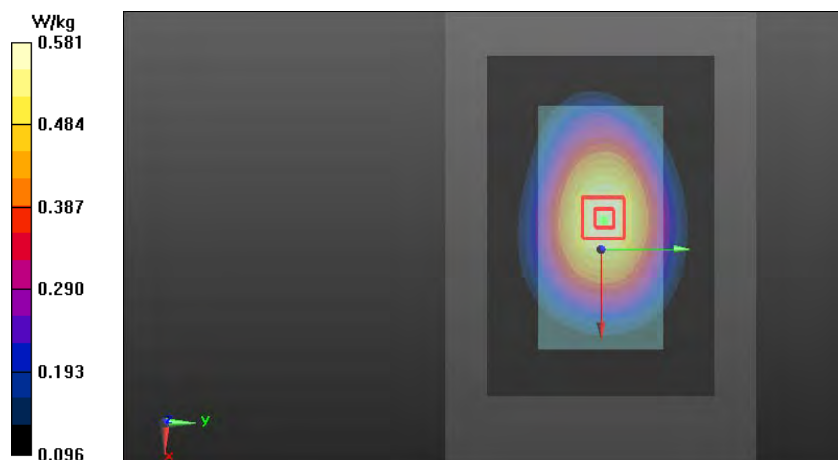
Peak SAR (extrapolated) = 0.662 W/kg

SAR(1 g) = 0.528 W/kg

SAR(10 g) = 0.400 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.581 W/kg



Plot18:

Date/Time: 2014-04-17 1:53:04 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: WCDMA850 (Band 5)

Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.968$ S/m; $\epsilon_r = 53.583$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

WCDMA850 (Band5)/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.073 V/m

Fast SAR: SAR(1 g) = 0.582 W/kg

Fast SAR(10 g) = 0.416 W/kg

Maximum value of SAR (interpolated) = 0.654 W/kg

WCDMA850 (Band5)/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 18.899 V/m

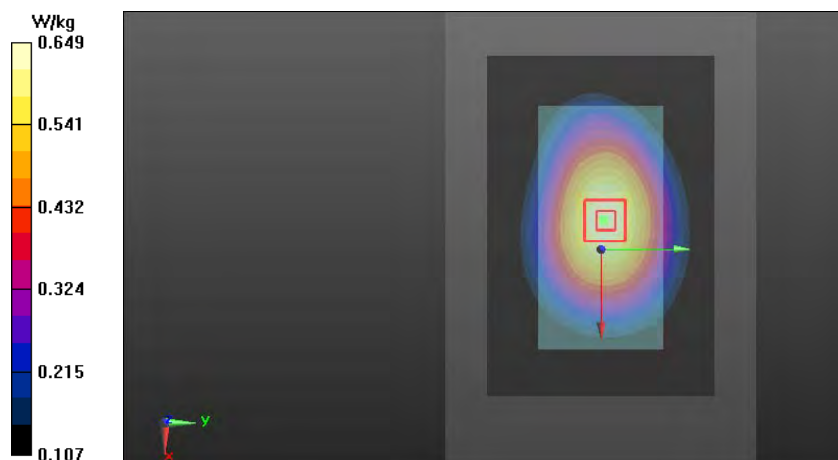
Peak SAR (extrapolated) = 0.738 W/kg

SAR(1 g) = 0.589 W/kg

SAR(10 g) = 0.444 W/kg

Power Drift = -0.03 dB

Maximum value of SAR (measured) = 0.649 W/kg



Plot19:

Date/Time: 2014-04-17 6:29:20 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.975$ S/m; $\epsilon_r = 53.55$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

LTE850 (Band5)/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.364 V/m

Fast SAR: SAR(1 g) = 0.339 W/kg

Fast SAR(10 g) = 0.242 W/kg

Maximum value of SAR (interpolated) = 0.381 W/kg

LTE850 (Band5)/Body - Middle - QPSK - 10MHz - 1 RB - 0% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.364 V/m

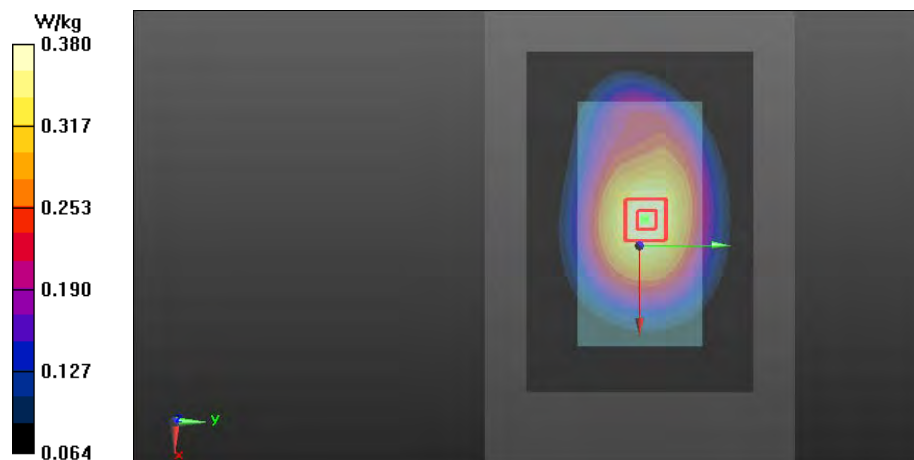
Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.345 W/kg

SAR(10 g) = 0.260 W/kg

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.380 W/kg



SAR Report

Appendix B for FCC_RM-975_03

Applicant: Nokia Corporation

Type: RM-975

Copyright © 2014 TCC Nokia

Plot20:

Date/Time: 2014-04-16 11:30:56 AM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: BSL1750; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 53.17$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.9, 4.9, 4.9); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1700/2100 (Band 4)/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 24.271 V/m

Fast SAR: SAR(1 g) = 0.702 W/kg

Fast SAR(10 g) = 0.446 W/kg

Maximum value of SAR (interpolated) = 0.819 W/kg

WCDMA1700/2100 (Band 4)/Body - Low - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.856 V/m

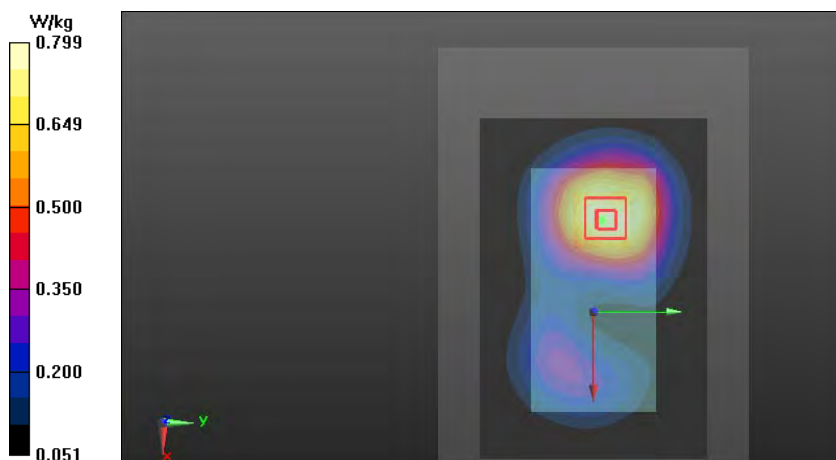
Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.692 W/kg

SAR(10 g) = 0.458 W/kg

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.799 W/kg



Plot21:

Date/Time: 2014-04-16 9:29:17 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: BSL1750; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 53.11$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.9, 4.9, 4.9); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1700/2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1 RB - 100% offset - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.059 V/m

Fast SAR: SAR(1 g) = 0.572 W/kg

Fast SAR(10 g) = 0.356 W/kg

Maximum value of SAR (interpolated) = 0.680 W/kg

LTE1700/2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1 RB - 100% offset - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.114 V/m

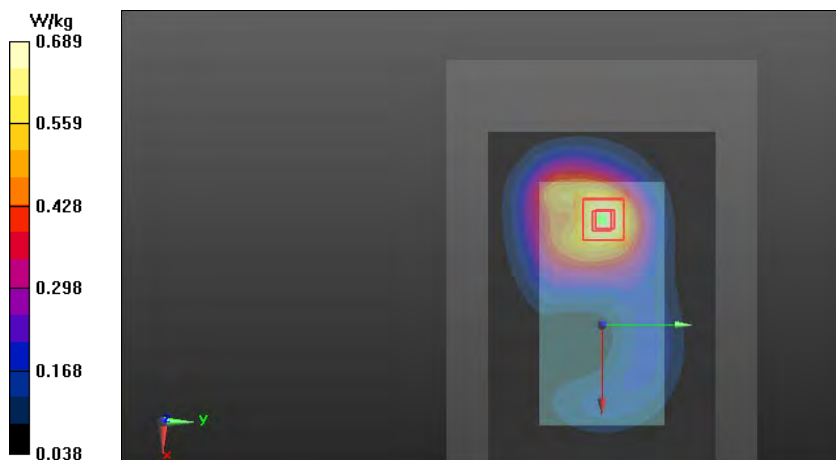
Peak SAR (extrapolated) = 0.877 W/kg

SAR(1 g) = 0.594 W/kg

SAR(10 g) = 0.382 W/kg

Power Drift = 0.00 dB

Maximum value of SAR (measured) = 0.689 W/kg



Plot22:

Date/Time: 2014-04-14 3:04:40 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.19952

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.496$ S/m; $\epsilon_r = 52.623$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS1900/Body - High - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.265 V/m

Fast SAR: SAR(1 g) = 0.567 W/kg

Fast SAR(10 g) = 0.341 W/kg

Maximum value of SAR (interpolated) = 0.689 W/kg

2-slot GPRS1900/Body - High - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.210 V/m

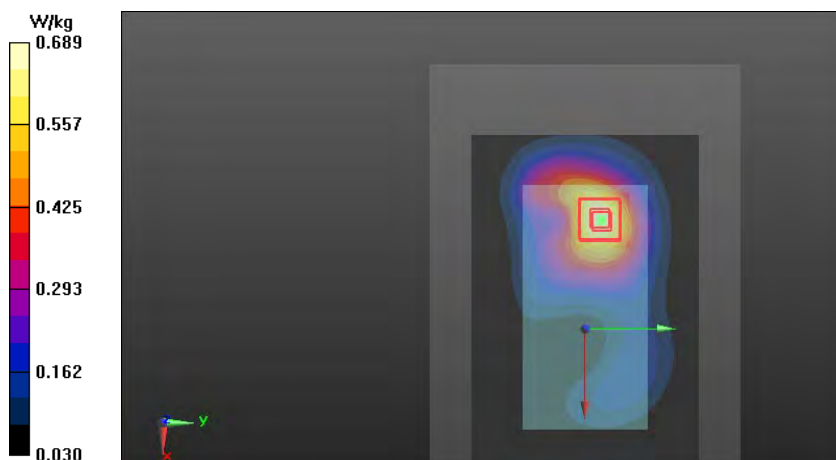
Peak SAR (extrapolated) = 0.892 W/kg

SAR(1 g) = 0.592 W/kg

SAR(10 g) = 0.373 W/kg

Power Drift = 0.05 dB

Maximum value of SAR (measured) = 0.689 W/kg



Plot23:

Date/Time: 2014-04-12 8:32:46 AM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: WCDMA1900 (Band 2)

Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.426$ S/m; $\epsilon_r = 52.367$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1900 (Band 2)/Body - Low - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.548 V/m

Fast SAR: SAR(1 g) = 0.681 W/kg

Fast SAR(10 g) = 0.415 W/kg

Maximum value of SAR (interpolated) = 0.819 W/kg

WCDMA1900 (Band 2)/Body - Low - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.517 V/m

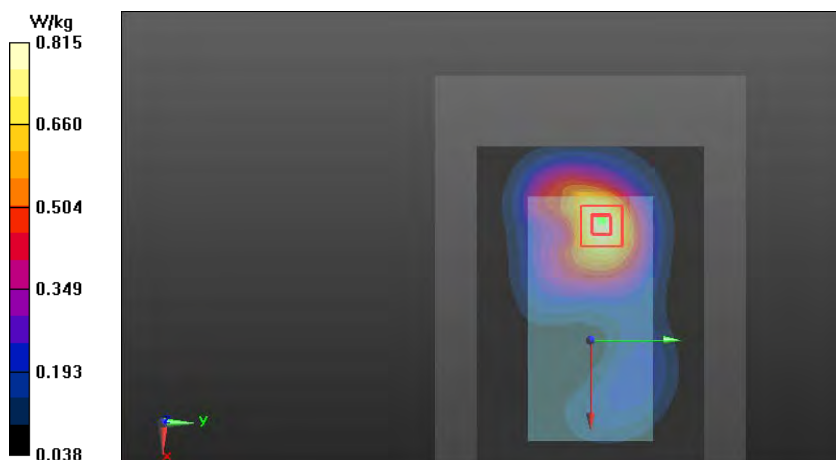
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.703 W/kg

SAR(10 g) = 0.452 W/kg

Power Drift = 0.02 dB

Maximum value of SAR (measured) = 0.815 W/kg



Plot24:

Date/Time: 2014-04-14 12:51:19 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 52.668$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.204 V/m

Fast SAR: SAR(1 g) = 0.480 W/kg

Fast SAR(10 g) = 0.291 W/kg

Maximum value of SAR (interpolated) = 0.570 W/kg

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 15mm - No Headset - Display Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 14.204 V/m

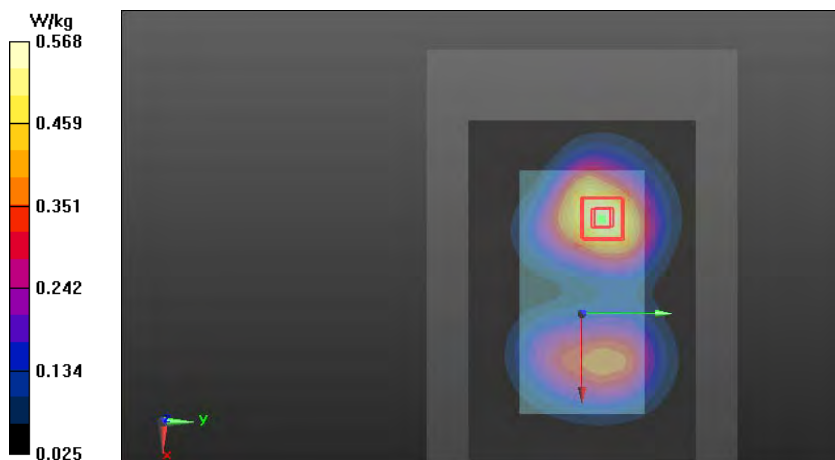
Peak SAR (extrapolated) = 0.710 W/kg

SAR(1 g) = 0.491 W/kg

SAR(10 g) = 0.319 W/kg

Power Drift = 0.13 dB

Maximum value of SAR (measured) = 0.568 W/kg



Plot25:

Date/Time: 2014-04-15 2:54:08 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804005/2

Communication System: LTE2500 (Band 7)

Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: BSL 2450 - 2600; Medium Notes: T= 21.5 C

Medium parameters used: $f = 2535$ MHz; $\sigma = 2.001$ S/m; $\epsilon_r = 53.217$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(3.98, 3.98, 3.98); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2/Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 17.027 V/m

Fast SAR: SAR(1 g) = 0.470 W/kg

Fast SAR(10 g) = 0.255 W/kg

Maximum value of SAR (interpolated) = 0.594 W/kg

LTE2500 (Band 7)/Body - Middle - QPSK - 20MHz - 1RB - 50% offset - Spacer 15mm - No Headset - Back Facing Phantom - Antenna 2/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.027 V/m

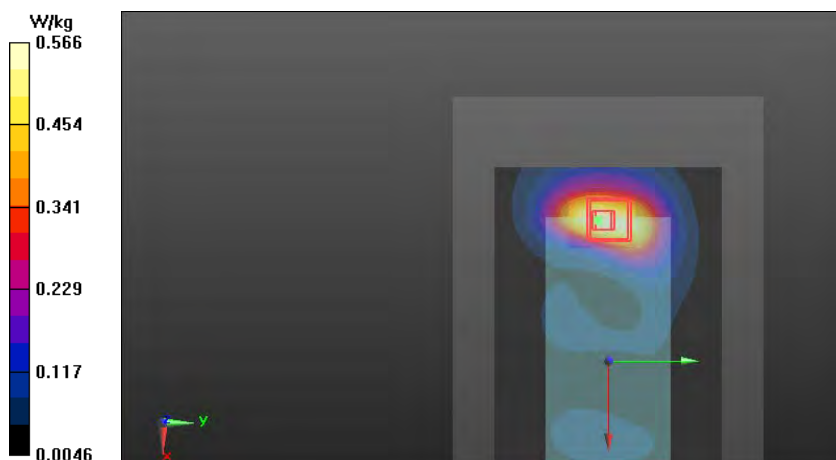
Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.463 W/kg

SAR(10 g) = 0.258 W/kg

Power Drift = 0.08 dB

Maximum value of SAR (measured) = 0.566 W/kg



Plot26:

Date/Time: 2014-04-10 1:05:23 PM

Test Laboratory: Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: BSL 2450 - 2600; Medium Notes: t= 21.5 C

Medium parameters used: f = 2462 MHz; $\sigma = 1.903$ S/m; $\epsilon_r = 52.975$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3817
- ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 2014 Mar 12
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WLAN2450 b-mode/Body - Channel 11 - BPSK 1 Mbps - Spacer 15mm - WH-108 - Back Facing Phantom - Cover CC-3085/Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 7.880 V/m

Fast SAR: SAR(1 g) = 0.093 W/kg

Fast SAR(10 g) = 0.047 W/kg

Maximum value of SAR (interpolated) = 0.120 W/kg

WLAN2450 b-mode/Body - Channel 11 - BPSK 1 Mbps - Spacer 15mm - WH-108 - Back Facing Phantom - Cover CC-3085/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.371 V/m

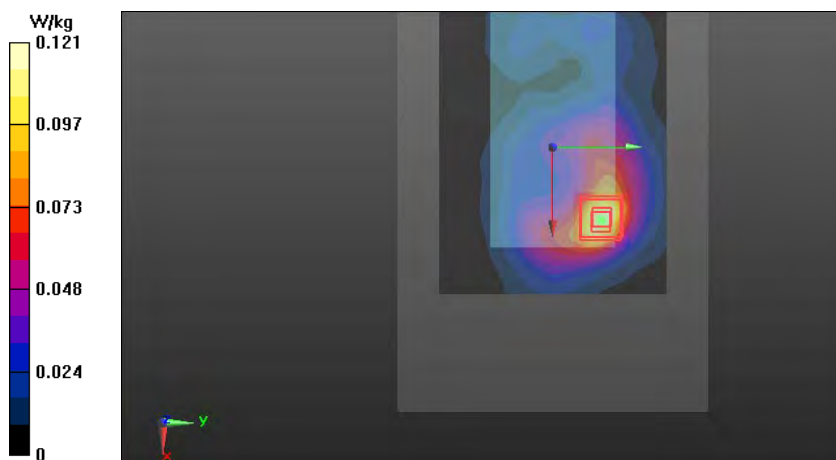
Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.095 W/kg

SAR(10 g) = 0.051 W/kg

Power Drift = -0.13 dB

Maximum value of SAR (measured) = 0.121 W/kg



Plot27:

Date/Time: 2014-04-18 9:26:04 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE700 (Band 17)

Frequency: 710 MHz; Duty Cycle: 1:1

Medium: BSL750; Medium Notes: T=21.5C

Medium parameters used: $f = 710$ MHz; $\sigma = 0.921$ S/m; $\epsilon_r = 54.595$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.03, 6.03, 6.03); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 100% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.610 V/m

Fast SAR: SAR(1 g) = 0.569 W/kg

Fast SAR(10 g) = 0.409 W/kg

Maximum value of SAR (interpolated) = 0.636 W/kg

LTE700 (Band 17)/Body - Middle - QPSK - 10MHz - 1RB - 100% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.545 V/m

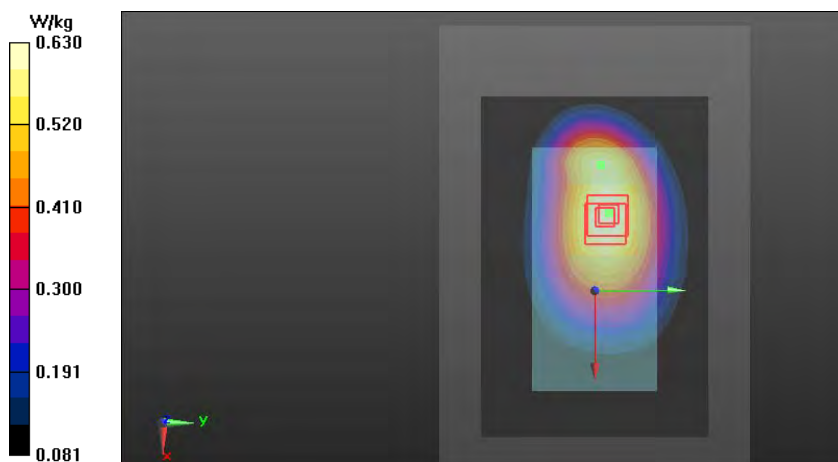
Peak SAR (extrapolated) = 0.735 W/kg

SAR(1 g) = 0.571 W/kg

SAR(10 g) = 0.430 W/kg

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.630 W/kg



Plot28:

Date/Time: 2014-04-17 8:42:19 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: 2-slot GPRS850

Frequency: 824.2 MHz; Duty Cycle: 1:4.19952

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 824.2$ MHz; $\sigma = 0.967$ S/m; $\epsilon_r = 53.583$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

2-slot GPRS850/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 28.573 V/m

Fast SAR: SAR(1 g) = 0.670 W/kg

Fast SAR(10 g) = 0.480 W/kg

Maximum value of SAR (interpolated) = 0.752 W/kg

2-slot GPRS850/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.560 V/m

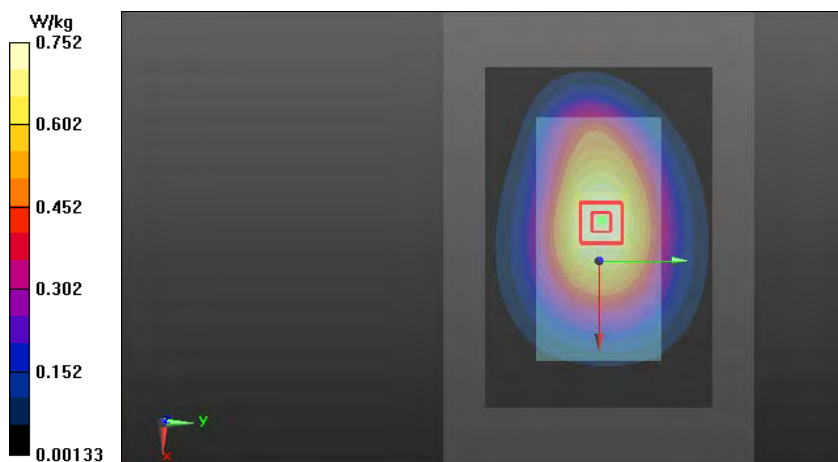
Peak SAR (extrapolated) = 0.855 W/kg

SAR(1 g) = 0.689 W/kg

SAR(10 g) = 0.524 W/kg

Power Drift = 0.04 dB

Maximum value of SAR (measured) = 0.754 W/kg



Plot29:

Date/Time: 2014-04-18 1:50:01 AM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: WCDMA850 (Band 5)

Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.968$ S/m; $\epsilon_r = 53.583$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

WCDMA850 (Band 5)/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 29.747 V/m

Fast SAR: SAR(1 g) = 0.716 W/kg

Fast SAR(10 g) = 0.513 W/kg

Maximum value of SAR (interpolated) = 0.803 W/kg

WCDMA850 (Band 5)/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 29.549 V/m

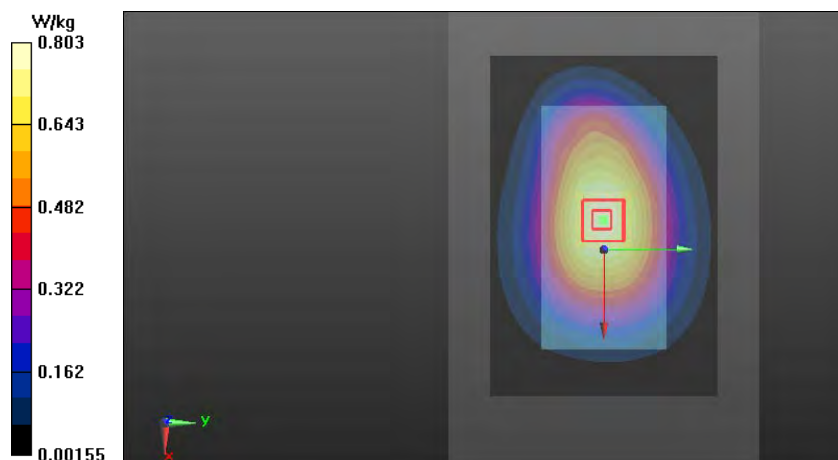
Peak SAR (extrapolated) = 0.893 W/kg

SAR(1 g) = 0.716 W/kg

SAR(10 g) = 0.543 W/kg

Power Drift = -0.07 dB

Maximum value of SAR (measured) = 0.785 W/kg



Plot30:

Date/Time: 2014-04-18 1:28:00 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804000/3

Communication System: LTE850 (Band 5)

Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: BSL800; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.974$ S/m; $\epsilon_r = 53.332$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(6.01, 6.01, 6.01); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE850 (Band5)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 1/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.275 V/m

Fast SAR: SAR(1 g) = 0.436 W/kg

Fast SAR(10 g) = 0.311 W/kg

Maximum value of SAR (interpolated) = 0.489 W/kg

LTE850 (Band5)/Body - Middle - QPSK - 10MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.042 V/m

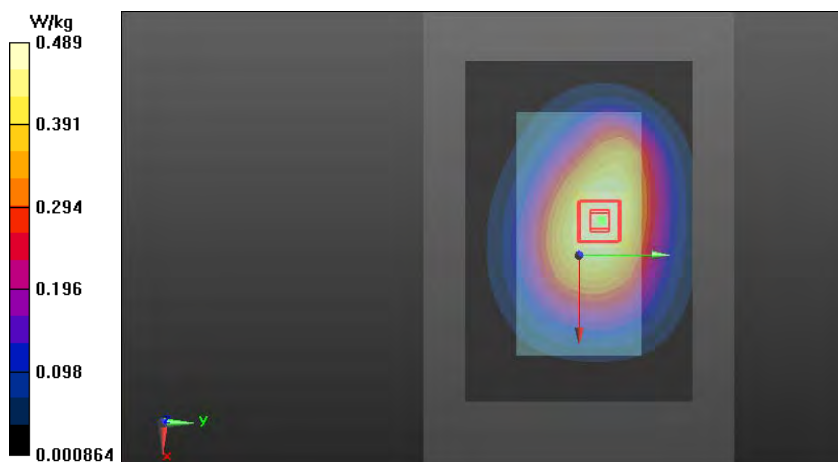
Peak SAR (extrapolated) = 0.544 W/kg

SAR(1 g) = 0.434 W/kg

SAR(10 g) = 0.328 W/kg

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 0.477 W/kg



Plot31:

Date/Time: 2014-04-16 5:54:35 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804007/8

Communication System: WCDMA1700/2100 (Band 4)

Frequency: 1712.4 MHz; Duty Cycle: 1:1

Medium: BSL1750; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 53.17$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.9, 4.9, 4.9); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1700/2100 (Band 4)/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.024 V/m

Fast SAR: SAR(1 g) = 0.775 W/kg

Fast SAR(10 g) = 0.488 W/kg

Maximum value of SAR (interpolated) = 0.941 W/kg

WCDMA1700/2100 (Band 4)/Body - Low - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2 - Cover CC-3085/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 22.024 V/m

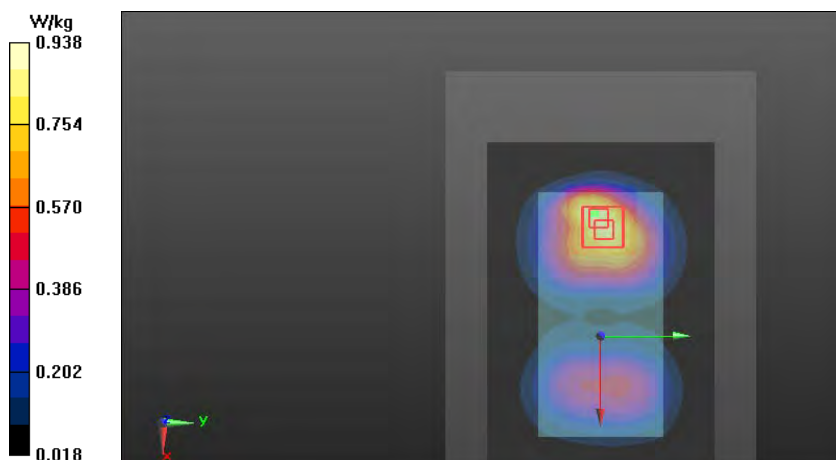
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.768 W/kg

SAR(10 g) = 0.474 W/kg

Power Drift = -0.15 dB

Maximum value of SAR (measured) = 0.938 W/kg



Plot32:

Date/Time: 2014-04-17 3:02:54 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804007/8

Communication System: LTE1700/2100 (Band 4)

Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium: BSL1750; Medium Notes: T= 21.5c

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.435$ S/m; $\epsilon_r = 53.043$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.9, 4.9, 4.9); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1700/2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1 RB - 50% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.151 V/m

Fast SAR: SAR(1 g) = 0.637 W/kg

Fast SAR(10 g) = 0.388 W/kg

Maximum value of SAR (interpolated) = 0.810 W/kg

LTE1700/2100 (Band 4)/Body - Middle - QPSK - 20MHz - 1 RB - 50% offset - Spacer 10mm - No Headset - Back Facing Phantom - Antenna 2/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.970 V/m

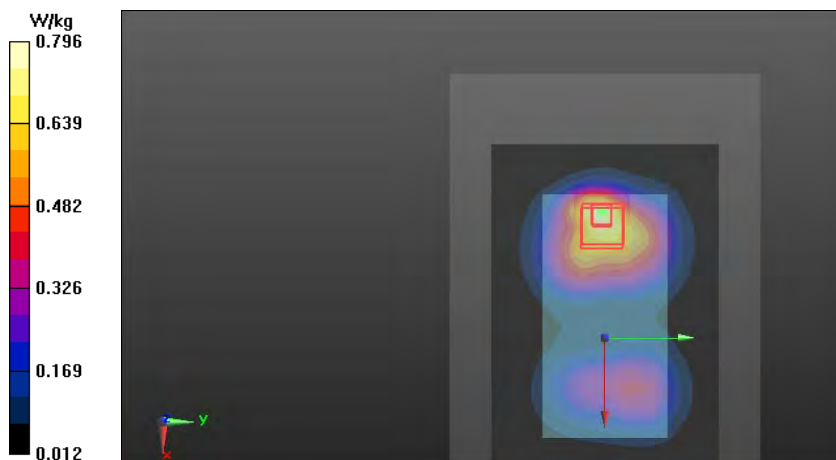
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.647 W/kg

SAR(10 g) = 0.386 W/kg

Power Drift = -0.08 dB

Maximum value of SAR (measured) = 0.796 W/kg



SAR Report

Appendix B for FCC_RM-975_03

Applicant: Nokia Corporation

Type: RM-975

Copyright © 2014 TCC Nokia

Plot33:

Date/Time: 2014-04-14 7:48:55 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804009/4

Communication System: 2-slot GPRS1900

Frequency: 1909.8 MHz; Duty Cycle: 1:4.19952

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1910$ MHz; $\sigma = 1.496$ S/m; $\epsilon_r = 52.623$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

2-slot GPRR1900/Body - High - Spacer 10mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085 - Repeated/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 28.058 V/m

Fast SAR: SAR(1 g) = 0.954 W/kg

Fast SAR(10 g) = 0.567 W/kg

Maximum value of SAR (interpolated) = 1.17 W/kg

2-slot GPRR1900/Body - High - Spacer 10mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085 - Repeated/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 28.058 V/m

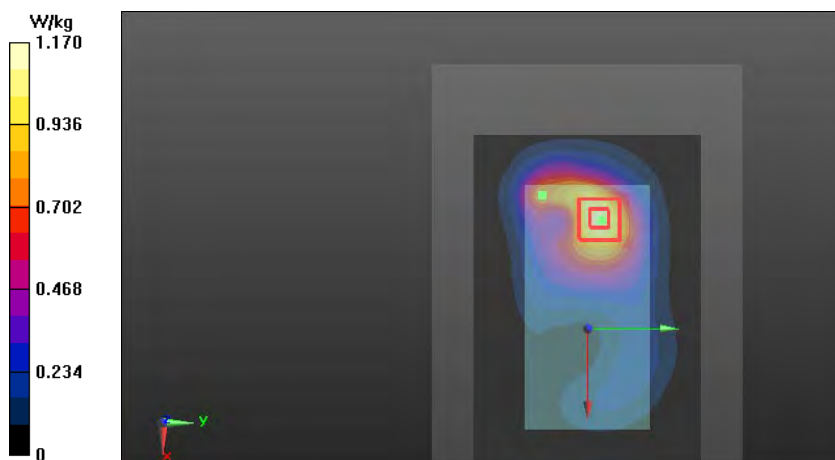
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.990 W/kg

SAR(10 g) = 0.612 W/kg

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 1.16 W/kg



Plot34:

Date/Time: 2014-04-12 7:41:38 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804007/8

Communication System: WCDMA1900 (Band 2)

Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1908$ MHz; $\sigma = 1.488$ S/m; $\epsilon_r = 52.224$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WCDMA1900 (Band 2)/Body - High - Spacer 10mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085/Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.423 V/m

Fast SAR: SAR(1 g) = 0.878 W/kg

Fast SAR(10 g) = 0.523 W/kg

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

WCDMA1900 (Band 2)/Body - High - Spacer 10mm - No Headset - Display Facing Phantom - Antenna 1 - Cover CC-3085/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 27.498 V/m

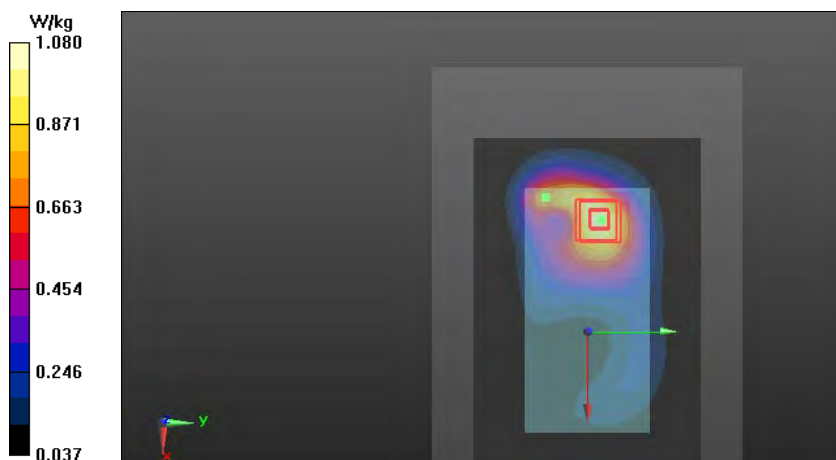
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.920 W/kg

SAR(10 g) = 0.567 W/kg

Power Drift = 0.06 dB

Maximum value of SAR (measured) = 1.08 W/kg



Plot35:

Date/Time: 2014-04-24 7:02:39 AM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804007/8

Communication System: LTE1900 (Band 2)

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: BSL1900; Medium Notes: T= 21.5c

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.464$ S/m; $\epsilon_r = 52.233$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3112
- ConvF(4.73, 4.73, 4.73); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1332; Calibrated: 2014-01-16
- Phantom: TF Phantom 06_28_2013; Type: QD 000 P51 CA; Serial: 06/28/2013
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Bottom Edge Facing Phantom - Antenna 1/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.131 V/m

Fast SAR: SAR(1 g) = 0.724 W/kg

Fast SAR(10 g) = 0.397 W/kg

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

LTE1900 (Band 2)/Body - Middle - QPSK - 20MHz - 1RB - 0% offset - Spacer 10mm - No Headset - Bottom Edge Facing Phantom - Antenna 1/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.886 V/m

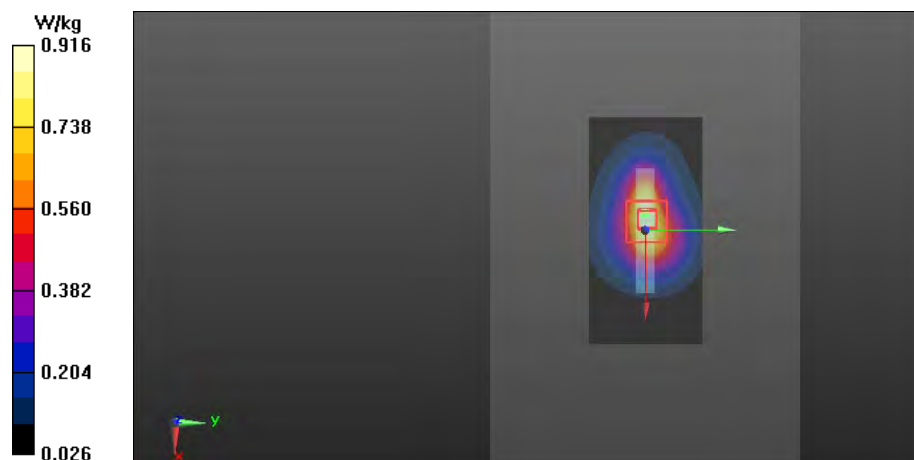
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.758 W/kg

SAR(10 g) = 0.442 W/kg

Power Drift = -0.01 dB

Maximum value of SAR (measured) = 0.916 W/kg



Plot36:

Date/Time: 2014-04-16 2:20:24 PM

Test Laboratory: TCC Nokia

Type: RM-975; Serial: 004402/47/804007/8

Communication System: LTE2500 (Band 7)

Frequency: 2510 MHz; Duty Cycle: 1:1

Medium: BSL 2450 - 2600; Medium Notes: T= 21.5 C

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 53.387$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: ES3DV3 - SN3275
- ConvF(3.98, 3.98, 3.98); Calibrated: 2014-01-22;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn756; Calibrated: 2014-01-10
- Phantom: Triple Flat Phantom 5.1C 06-28-2013; Type: QD 000 P51 CA; Serial: 1129/2
- Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.8 (7028)

LTE2500 (Band 7)/Body - Low - QPSK - 20MHz - 1RB - 100% offset - Spacer 10mm - No Headset - Bottom Edge Facing Phantom - Antenna 2 - Repeated/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 8.099 V/m

Fast SAR: SAR(1 g) = 0.898 W/kg

Fast SAR(10 g) = 0.444 W/kg

Maximum value of SAR (interpolated) = 1.17 W/kg

LTE2500 (Band 7)/Body - Low - QPSK - 20MHz - 1RB - 100% offset - Spacer 10mm - No Headset - Bottom Edge Facing Phantom - Antenna 2 - Repeated/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.099 V/m

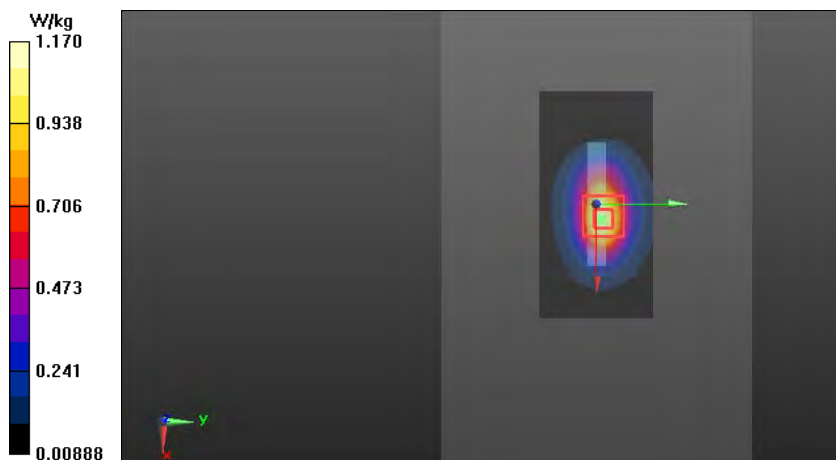
Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.915 W/kg

SAR(10 g) = 0.462 W/kg

Power Drift = 0.03 dB

Maximum value of SAR (measured) = 1.17 W/kg



Plot37:

Date/Time: 2014-04-11 10:24:51 AM

Test Laboratory: Nokia

Type: RM-975; Serial: 004402/47/804496/3

Communication System: WLAN2450 b-mode

Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: BSL 2450 - 2600; Medium Notes: t= 21.5 C

Medium parameters used: f = 2462 MHz; $\sigma = 1.909$ S/m; $\epsilon_r = 53.379$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY Configuration:

- Probe: EX3DV4 - SN3817
- ConvF(7.2, 7.2, 7.2); Calibrated: 2014-01-17;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1301; Calibrated: 2014-01-13
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 2014 Mar 12
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.8 (7028)

WLAN2450 b-mode/Body - Channel 11 - BPSK 1 Mbps - Spacer 10mm - No Headset - Back Facing Phantom/Area Scan (121x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Reference Value = 11.661 V/m

Fast SAR: SAR(1 g) = 0.196 W/kg

Fast SAR(10 g) = 0.092 W/kg

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

WLAN2450 b-mode/Body - Channel 11 - BPSK 1 Mbps - Spacer 10mm - No Headset - Back Facing Phantom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.061 V/m

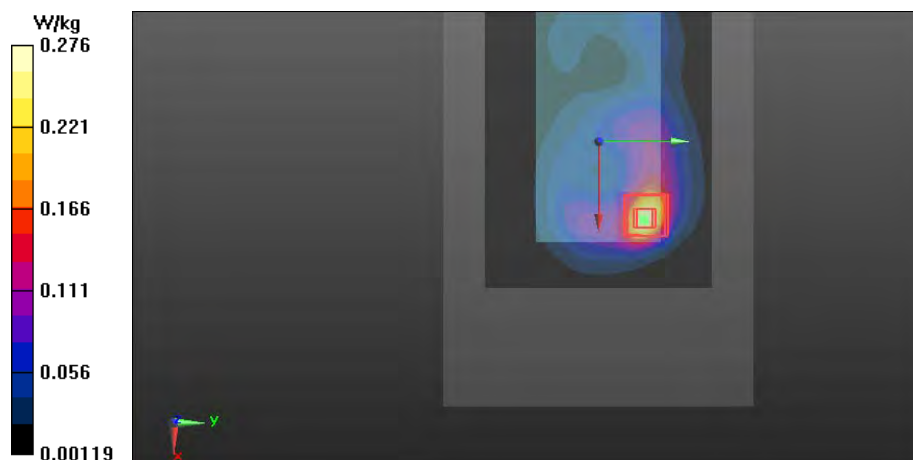
Peak SAR (extrapolated) = 0.417 W/kg

SAR(1 g) = 0.215 W/kg

SAR(10 g) = 0.106 W/kg

Power Drift = 0.09 dB

Maximum value of SAR (measured) = 0.276 W/kg



APPENDIX C: DIELECTRIC PARAMETERS OF THE TISSUE SIMULANTS

Head tissue simulant dielectric parameters used in the measurements:

f (MHz)	Date	Ch 23780 709.0 MHz		Ch 23790 710.0 MHz		Ch 23800 711.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE700	2014-04-11	40.7	0.86	40.7	0.86	40.7	0.86
f (MHz)	Date	Dielectric Parameters					
		Ch 128 824.2 MHz		Ch 190 836.6 MHz		Ch 251 848.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
GSM/GPRS/ EGPRS850	2014-04-09	40.4	0.88	40.3	0.89	40.2	0.90
f (MHz)	Date	Dielectric Parameters					
		Ch 4132 826.4 MHz		Ch 4175 835.0 MHz		Ch 4233 846.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA850	2014-04-08	40.2	0.88	40.2	0.88	40.1	0.89
F (MHz)	Date	Dielectric Parameters					
		Ch 20450 829.0 MHz		Ch 20525 836.5 MHz		Ch 20600 844.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE850	2014-04-09	40.4	0.89	40.3	0.89	40.2	0.89
	2014-04-10	40.3	0.88	40.3	0.89	40.2	0.89
f (MHz)	Date	Dielectric Parameters					
		Ch 1312 1712.4 MHz		Ch 1412 1732.4 MHz		Ch 1513 1752.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA1700/ 2100	2014-04-10	40.2	1.32	40.1	1.34	40.0	1.36
f (MHz)	Date	Dielectric Parameters					
		Ch 20050 1720.0 MHz		Ch 20175 1732.5 MHz		Ch 20300 1745.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE1700/ 2100	2014-04-11	40.6	1.32	40.5	1.34	40.5	1.35

(Head tissue simulant dielectric parameters used in the measurements table continues)

(Head tissue simulant dielectric parameters used in the measurements table continues)

f (MHz)	Date	Dielectric Parameters					
		Ch 512 1850.2 MHz		Ch 661 1880.0 MHz		Ch 810 1909.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
GSM/GPRS/ EGPRS1900	2014-04-08	38.8	1.35	38.6	1.38	38.5	1.41
f (MHz)	Date	Dielectric Parameters					
		Ch 9262 1852.4 MHz		Ch 9400 1880.0 MHz		Ch 9538 1907.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA1900	2014-04-09	38.9	1.35	38.8	1.38	38.6	1.40
f (MHz)	Date	Ch 18700 1860.0 MHz		Ch 18900 1880.0 MHz		Ch 19100 1900.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE1900	2014-04-09	38.8	1.36	38.8	1.38	38.7	1.39
f (MHz)	Date	Ch 1 2412.0 MHz		Ch 6 2437.0 MHz		Ch 11 2462.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WLAN2450	2014-04-08	38.6	1.77	38.4	1.80	38.3	1.83
f (MHz)	Date	Dielectric Parameters					
		Ch 20850 2510.0 MHz		Ch 21100 2535.0 MHz		Ch 21350 2560.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE2500	2014-04-14	37.7	1.86	37.6	1.89	37.5	1.92

Body tissue simulant dielectric parameters used in the measurements:

f (MHz)	Date	Ch 23780 709.0 MHz		Ch 23790 710.0 MHz		Ch 23800 711.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE700	2014-04-18	54.6	0.92	54.6	0.92	54.6	0.92
f (MHz)	Date	Dielectric Parameters					
		Ch 128 824.2 MHz		Ch 190 836.6 MHz		Ch 251 848.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
GSM/GPRS/ EGPRS850	2014-04-16	53.5	0.96	53.5	0.97	53.5	0.98
	2014-04-17	53.6	0.97	53.6	0.97	53.5	0.98
f (MHz)	Date	Dielectric Parameters					
		Ch 4132 826.4 MHz		Ch 4175 835.0 MHz		Ch 4233 846.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA850	2014-04-17	53.6	0.97	53.6	0.97	53.5	0.98
	2014-04-21	53.3	0.97	53.3	0.98	53.2	0.98
F (MHz)	Date	Dielectric Parameters					
		Ch 20450 829.0 MHz		Ch 20525 836.5 MHz		Ch 20600 844.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE850	2014-04-17	53.6	0.97	53.6	0.97	53.5	0.98
	2014-04-18	53.4	0.97	53.3	0.97	53.3	0.98
f (MHz)	Date	Dielectric Parameters					
		Ch 1312 1712.4 MHz		Ch 1412 1732.4 MHz		Ch 1513 1752.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA1700/ 2100	2014-04-16	53.2	1.40	53.1	1.42	53.0	1.43
f (MHz)	Date	Dielectric Parameters					
		Ch 20050 1720.0 MHz		Ch 20175 1732.5 MHz		Ch 20300 1745.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE1700/ 2100	2014-04-16	53.1	1.41	53.1	1.42	53.1	1.43
	2014-04-17	53.1	1.42	53.0	1.43	53.0	1.44

(Body tissue simulant dielectric parameters used in the measurements table continues)

(Body tissue simulant dielectric parameters used in the measurements table continues)

f (MHz)	Date	Dielectric Parameters					
		Ch 512 1850.2 MHz		Ch 661 1880.0 MHz		Ch 810 1909.8 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
GSM/GPRS/ EGPRS1900	2014-04-12	52.4	1.42	52.3	1.45	52.2	1.49
	2014-04-14	52.8	1.43	52.7	1.46	52.6	1.49
f (MHz)	Date	Dielectric Parameters					
		Ch 9262 1852.4 MHz		Ch 9400 1880.0 MHz		Ch 9538 1907.6 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WCDMA1900	2014-04-12	52.4	1.42	52.3	1.45	52.2	1.49
f (MHz)	Date	Ch 18700 1860.0 MHz		Ch 18900 1880.0 MHz		Ch 19100 1900.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE1900	2014-04-14	52.7	1.43	52.7	1.46	52.6	1.48
	2014-04-15	52.2	1.42	52.1	1.44	52.1	1.46
	2014-04-24	52.3	1.44	52.2	1.46	52.2	1.48
f (MHz)	Date	Ch 1 2412.0 MHz		Ch 6 2437.0 MHz		Ch 11 2462.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
WLAN2450	2014-04-10	53.2	1.84	53.1	1.87	53.0	1.90
	2014-04-11	53.5	1.85	53.5	1.88	53.4	1.91
f (MHz)	Date	Dielectric Parameters					
		Ch 20850 2510.0 MHz		Ch 21100 2535.0 MHz		Ch 21350 2560.0 MHz	
		ϵ_r	σ [S/m]	ϵ_r	σ [S/m]	ϵ_r	σ [S/m]
LTE2500	2014-04-15	53.3	1.97	53.2	2.00	53.2	2.03
	2014-04-16	53.4	1.97	53.3	2.00	53.3	2.03

APPENDIX D: CONDUCTED AVERAGE POWER MEASUREMENTS FOR WCDMA AND HSUPA

Type: RM-975; Serial: 004402/47/804000/3, HW: 2020, SW: 01061.00014.14112.00000

D.1. WCDMA850 (Band 5) Test results

Average power

Ch / f(MHz)	P [dBm]	P [dBm]
	Antenna 1	Antenna 2
4132 / 826.4	23.3	23.1
4175 / 835.0	23.3	23.1
4233 / 846.6	23.4	23.2

D.2. HSUPA850 Test results

Average power

Ch / f(MHz)	P [dBm]				
	Antenna 1				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
4132	22.2	21.2	21.0	21.9	22.4
4175	21.7	21.3	20.9	21.9	22.3
4233	21.7	21.4	21.0	21.8	22.3

Ch / f(MHz)	P [dBm]				
	Antenna 2				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
4132	22.0	21.0	20.8	21.7	22.2
4175	21.5	21.1	20.7	21.7	22.1
4233	21.5	21.2	20.8	21.6	22.1

Note: In HSUPA operation, the output power is reduced relative to the tuning target power for WCDMA. This device runs a single HSUPA power control routine: MPR, and additional 1dB reduction to ensure PA linearity. As a result, the MPR for each of the Subtest modes is as follows:

Maximum Power Reduction (MPR)				
Antenna 1				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB

Maximum Power Reduction (MPR)				
Antenna 2				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB

Type: RM-975; Serial: 004402/47/804009/4, HW: 2020, SW: 01061.00014.14112.00000

D.3. WCDMA1700/2100 (Band 4) Test results

Average power

Ch / f(MHz)	P [dBm]	P [dBm]
	Antenna 1	Antenna 2
1312 / 1712.4	23.4	22.9
1412 / 1732.4	23.6	23.1
1513 / 1752.6	23.6	23.1

D.4. HSUPA1700/2100 Test results

Average power

Ch / f(MHz)	P [dBm]				
	Antenna 1				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
1312 / 1712.4	22.0	21.5	21.3	21.9	22.5
1412 / 1732.4	21.9	21.6	20.8	22.1	22.5
1513 / 1752.6	22.0	21.5	21.4	22.0	22.6

Ch / f(MHz)	P [dBm]				
	Antenna 2				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
1312 / 1712.4	21.5	21.0	20.8	21.4	22.0
1412 / 1732.4	21.4	21.1	20.3	21.6	22.0
1513 / 1752.6	21.5	21.0	20.9	21.5	22.1

Note: In HSUPA operation, the output power is reduced relative to the tuning target power for WCDMA. This device runs a single HSUPA power control routine: MPR, and additional 1dB reduction to ensure PA linearity. As a result, the MPR for each of the Subtest modes is as follows:

Maximum Power Reduction (MPR)				
Antenna 1				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB

Maximum Power Reduction (MPR)				
Antenna 2				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB

Type: RM-975; Serial: 004402/47/804009/4, HW: 2020, SW: 01061.00014.14112.00000

D.5. WCDMA1900 (Band 2) Test results

Average power

Ch / f(MHz)	P [dBm]	P [dBm]
	Antenna 1	Antenna 2
9262 / 1852.4	23.4	22.9
9400 / 1880.0	23.6	23.1
9538 / 1907.6	23.6	23.1

D.6. HSUPA1900 Test results

Average power

Ch / f(MHz)	P [dBm]				
	Antenna 1				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
9262 / 1852.4	22.0	21.5	21.3	21.9	22.5
9400 / 1880.0	21.9	21.6	20.8	22.1	22.5
9538 / 1907.6	22.0	21.5	21.4	22.0	22.6

Ch / f(MHz)	P [dBm]				
	Antenna 2				
	Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
9262 / 1852.4	21.5	21.0	20.8	21.4	22.0
9400 / 1880.0	21.4	21.1	20.3	21.6	22.0
9538 / 1907.6	21.5	21.0	20.9	21.5	22.1

Note: In HSUPA operation, the output power is reduced relative to the tuning target power for WCDMA. This device runs a single HSUPA power control routine: MPR, and additional 1dB reduction to ensure PA linearity. As a result, the MPR for each of the Subtest modes is as follows:

Maximum Power Reduction (MPR)				
Antenna 1				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB

Maximum Power Reduction (MPR)				
Antenna 2				
Subtest mode 1	Subtest mode 2	Subtest mode 3	Subtest mode 4	Subtest mode 5
0.0dB	2.0dB	1.0dB	2.0dB	0.0dB