

APPLICANT : Brightstar Corporation

: mobile phone **EQUIPMENT**

BRAND NAME : Avvio

MODEL NAME : Avvio 768S/Avvio 768

FCC ID : WVBA768X

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2003

We, SPORTON INTERNATIONAL (XI'AN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (XI'AN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

ENc huan

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Report No. : FA440108

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Issued Date: May 07, 2014 Form version.: 140422 FCC ID: WVBA768X Page 1 of 42



Table of Contents

1. Statement of Compliance	
2. Administration Data	
3. Guidance Standard	
4. Equipment Under Test (EUT)	
4.1 General Information	
4.2 Maximum Tune-up Limit	
5. RF Exposure Limits	
5.1 Uncontrolled Environment	
5.2 Controlled Environment	
6. Specific Absorption Rate (SAR)	9
6.1 Introduction	
6.2 SAR Definition	9
7. System Description and Setup	
8. Measurement Procedures	11
8.1 Spatial Peak SAR Evaluation	11
8.2 Power Reference Measurement	12
8.3 Area Scan	12
8.4 Zoom Scan	13
8.5 Volume Scan Procedures	13
8.6 Power Drift Monitoring	13
9. Test Equipment List	
10. System Verification	15
10.1 Tissue Verification	15
10.2 System Performance Check Results	16
11. RF Exposure Positions	
11.1 Ear and handset reference point	17
11.2 Definition of the cheek position	18
11.3 Definition of the tilt position	19
11.4 Body Worn Accessory	
11.5 Wireless Router	
12. Conducted RF Output Power (Unit: dBm)	
13. Bluetooth Exclusions Applied	
14. Antenna Location	28
15. SAR Test Results	29
15.1 Head SAR	30
15.2 Hotspot SAR	
15.3 Body Worn Accessory SAR	
15.4 Repeated SAR Measurement	
16. Simultaneous Transmission Analysis	
16.1 Head Exposure Conditions	
16.2 Hotspot Exposure Conditions	
16.3 Body-Worn Accessory Exposure Conditions	39
17. Uncertainty Assessment	40
18. References	
Appendix A. Plots of System Performance Check	
Appendix B. Plots of High SAR Measurement	
Appendix C. DASY Calibration Certificate	
Annondix D. Tost Satur Photos	

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

FCC ID: WVBA768X

Report No.: FA440108



Revision History

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FA440108	Rev. 01	Initial issue of report	May 07, 2014

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Brightstar Corporation**, **mobile phone**, **Avvio 768S/Avvio 768** are as follows.

Report No.: FA440108

				Highest SA	AR Summary	
Equipment Class	Frequency Band	Operating Mode	Head 1g SAR (W/kg)	Body-worn 1g SAR (W/kg) (Separation 1cm)	Wireless Router 1g SAR (W/kg) (Separation 1cm)	Simultaneous Transmission SAR (W/kg)
	GSM850	Voice/Data	0.47	1.36	1.36	
PCE	GSM1900	Voice/Data	0.48	0.95	0.95	1.57
POE	WCDMA Band V	Voice/Data	0.28	1.46	1.46	1.57
	WCDMA Band II	Voice/Data	0.62	1.11	1.11	
DTS	WLAN 2.4GHz Band	Data	0.26	0.14	0.11	1.57
DSS	Bluetooth	Data				1.50
	Date of Testing:			04/16/2014	~ 04/24/2014	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.



2. Administration Data

Testing Laboratory		
Test Site	SPORTON INTERNATIONAL (XI'AN) INC.	
Test Site Location	1F, Building A3, No. 39 Chuangye Rd., Xi'an Hi-tech Zone, Shanxi Province, TEL: +86-029-8860-8767 FAX: +86-029-8860-8791	P. R. C.

Report No.: FA440108

	Applicant
Company Name	Brightstar Corporation
Address	9725 NW 117th Ave., Miami, Florida, FL 33178, United States

	Manufacturer
Company Name	Skycom Telecommunications Co Limited
Address	Room 604, East Block, Shengtang Building, Futian District, Shenzhen, China

3. Guidance Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2003
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB 865664 D02 SAR Reporting v01r01
- FCC KDB 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r02
- FCC KDB 248227 D01 SAR meas for 802 11abg v01r02
- FCC KDB 941225 D01 SAR test for 3G devices v02
- FCC KDB 941225 D02 HSPA and 1x Advanced v02r02
- FCC KDB 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- FCC KDB 941225 D06 Hotspot Mode SAR v01r01



4. Equipment Under Test (EUT)

4.1 General Information

mobile phone Avvio Avvio 768S/Avvio 768 CC ID WVBA768X SIM1: 353194060000266
Dodel Name Avvio 768S/Avvio 768 CC ID WVBA768X SIM1: 353194060000266
WVBA768X SIM1: 353194060000266
SIM1: 353194060000266
SIM1: 353194060000266
El Code SIM2: 353194060003260
GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz ireless Technology and WCDMA Band V: 826.4 MHz ~ 846.6 MHz equency Range WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
• GSM/GPRS • RMC/AMR 12.2Kbps • HSDPA • HSUPA • HSPA+ (Downlink Only) • 802.11b/g/n HT20/HT40 • Bluetooth v3.0+EDR, Bluetooth v4.0-LE
V Version S202_MB_V1.2
V Version S202MWR_TC_A01_JB3_WCDMA_V0.3_201403181452
SM / (E)GPRS Transfer Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network
JT Stage Identical Prototype

Report No. : FA440108

Remark:

- 1. This device 2.4GHz WLAN supports Hotspot operation.
- 2. This device supported VoIP in GPRS, WCDMA (e.g. 3rd party VoIP).
- 3. This device supports GRPS mode up to multi-slot class12 and has no DTM function.
- 4. There are two different types of EUT. They are single SIM card mobile (Model Name: Avvio 768) and dual SIM card mobile (Model Name: Avvio 768S). The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM (Model Name: Avvio 768S) was the worst, so we chose dual SIM card mobile to perform all test.



4.2 Maximum Tune-up Limit

Mode	Burst average power(dBm)	
iviode	GSM 850	GSM 1900
GSM (GMSK, 1 Tx slot)	32.5	29.5
GPRS (GMSK, 1 Tx slot)	32.5	29.5
GPRS (GMSK, 2 Tx slots)	30.0	28.5
GPRS (GMSK, 3 Tx slots)	28.0	26.5
GPRS (GMSK, 4 Tx slots)	27.5	26.5

Report No. : FA440108

Mode	Average power(dBm)		
Mode	WCDMA Band V	WCDMA Band II	
AMR 12.2Kbps	23.5	23.0	
RMC 12.2Kbps	23.5	23.0	
HSDPA Subtest-1	21.0	21.0	
HSDPA Subtest-2	21.0	21.0	
HSDPA Subtest-3	21.0	20.5	
HSDPA Subtest-4	21.0	20.5	
HSUPA Subtest-1	21.0	21.0	
HSUPA Subtest-2	20.5	19.5	
HSUPA Subtest-3	20.5	21.0	
HSUPA Subtest-4	19.5	19.5	
HSUPA Subtest-5	21.0	21.0	

	Mode	Maximum Average Power (dBm)
	802.11b	14.0
2.4GHz	802.11g	9.0
2.4902	802.11n-HT20	9.0
	802.11n-HT40	7.5
	Bluetooth v3.0+EDR	2.0
	Bluetooth v4.0 LE	-6.0

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 7 of 42

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Report No. : FA440108

5.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankle
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791 Issued Date: May 07, 2014

Form version. : 140422 FCC ID: WVBA768X Page 8 of 42

6. Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

Report No. : FA440108

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (p). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

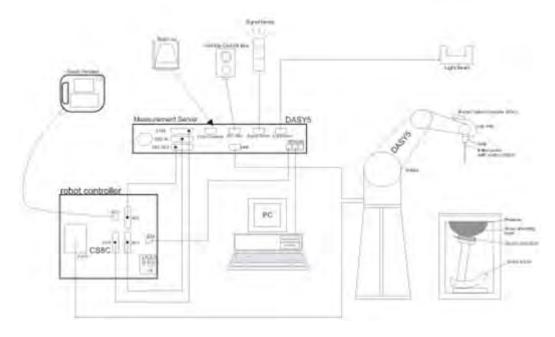
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 9 of 42

7. System Description and Setup

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



Report No. : FA440108

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

FCC ID : WVBA768X Page 10 of 42 Form version. : 140422



8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

Report No.: FA440108

- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- Set scan area, grid size and other setting on the DASY software. (c)
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band (e)
- Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement (a)
- Area scan (b)
- (c) Zoom scan
- Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

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

- Extraction of the measured data (grid and values) from the Zoom Scan
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and (b) measurement parameters)
- Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface (e)
- Calculation of the averaged SAR within masses of 1g and 10g

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FCC ID: WVBA768X Page 11 of 42



8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Report No. : FA440108

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r03 SAR measurement 100 MHz to 6 GHz.

	≤3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution is x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be \leq the corresponding device with at least one



8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Report No. : FA440108

Zoom scan parameters extracted from FCC KDB 865664 D01v01r03 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·∆z	Zoom(n-1)
Minimum zoom scan volume	n x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

8.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

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FCC ID: WVBA768X Form version. : 140422 Page 13 of 42

When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}, \leq 8 \text{ mm}, \leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



9. Test Equipment List

Manufactures	Name of Emiliana	T /841 - 1	O serial Normalism	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d151	Mar. 25, 2013	Mar. 23, 2015
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 27, 2013	Mar. 25, 2015
SPEAG	2450MHz System Validation Kit	D2450V2	908	Mar. 26, 2013	Mar. 24, 2015
SPEAG	Data Acquisition Electronics	DAE4	1353	Jan. 30, 2014	Jan. 29, 2015
SPEAG	Dosimetric E-Field Probe	EX3DV4	3898	Mar. 10, 2014	Mar. 09, 2015
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1753	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	TP-1754	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Agilent	Wireless Communication Test Set	E5515C	MY52102600	Dec. 30, 2013	Dec. 29, 2014
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	Dec. 30, 2013	Dec. 29, 2014
Agilent	Dielectric Probe Kit	85070E	MY44300751	NCR	NCR
Anritsu	Power Meter	ML2495A	1005002	Feb. 27, 2014	Feb. 26, 2015
Anritsu	Power Sensor	MA2411B	917070	Feb. 27, 2014	Feb. 26, 2015
R&S	Spectrum Analyzer	FSP7	101045	Dec. 30, 2013	Dec. 29, 2014
Agilent	Dual Directional Coupler	778D	50422	*C	BT
Woken	Attenuator	WK0602-XX	N/A	*C	BT
PE	Attenuator	PE7005-10	N/A	*C	BT
PE	Attenuator	PE7005- 3	N/A	*CBT	
AR	Power Amplifier	5S1G4M2	0328767	*CBT	
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	*CBT	
Mini-Circuits	Power Amplifier	ZHL-42W+	13440021344	*C	ВТ

Report No. : FA440108

General Note:

- 1. The calibration certificate of DASY can be referred to appendix C of this report.
- 2. Referring to KDB 865664 D01v01r03, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- 3. The justification data of dipole D835V2, SN: 4d151, D1900V2, SN: 5d170, D2450V2, SN: 908 can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.
- 4. *CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing an amplifier, coupler and attenuator were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurement.

10. System Verification

10.1 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target

Report No.: FA440108

tissue parameters required for routine SAR evaluation.

tiodad paramotore	5 10 quii 0 u	ioi roduire	, 0, 11 1 0 1 41 4	neede parametere required for reduite of its estatution												
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)								
				For Head												
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5								
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0								
2450	55.0	0	0	0	0	45.0	1.80	39.2								
				For Body												
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2								
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3								
2450	68.6	0	0	0	0	31.4	1.95	52.7								

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
850	Head	22.7	0.913	40.859	0.90	41.5	1.44	-1.54	±5	2014.04.24
1900	Head	22.5	1.435	38.464	1.40	40.4	2.50	-4.79	±5	2014.04.16
2450	Head	22.5	1.833	37.683	1.80	39.2	1.83	-3.87	±5	2014.04.24
850	Body	22.6	0.973	54.088	0.97	55.2	0.31	-2.01	±5	2014.04.23
1900	Body	22.7	1.531	54.671	1.52	53.3	0.72	2.57	±5	2014.04.16
2450	Body	22.3	1.989	51.267	1.95	52.7	2.00	-2.72	±5	2014.04.24

FCC ID : WVBA768X Page 15 of 42 Form version. : 140422

10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured SAR (W/kg)	Targeted SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
2014.04.24	850	Head	250	4d151	3898	1353	2.55	9.49	10.2	7.48
2014.04.16	1900	Head	250	5d170	3898	1353	10.20	40.2	40.8	1.49
2014.04.24	2450	Head	250	908	3898	1353	13.80	54.0	55.2	2.22
2014.04.23	850	Body	250	4d151	3898	1353	2.32	9.43	9.28	-1.59
2014.04.16	1900	Body	250	5d170	3898	1353	10.40	41.2	41.6	0.97
2014.04.24	2450	Body	250	908	3898	1353	13.20	50.4	52.8	4.76

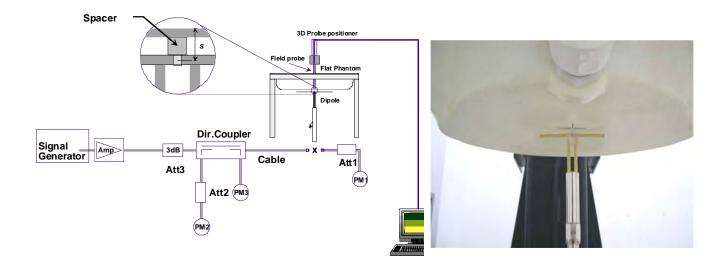


Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

Report No.: FA440108



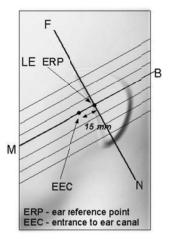
11. RF Exposure Positions

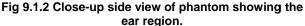
11.1 Ear and handset reference point

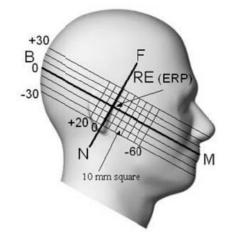
Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.



Fig 9.1.1 Front, back, and side views of SAM twin phantom







Report No. : FA440108

Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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Issued Date: May 07, 2014 Page 17 of 42 Form version.: 140422 FCC ID: WVBA768X

11.2 Definition of the cheek position

- 1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- 3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- 4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- 6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

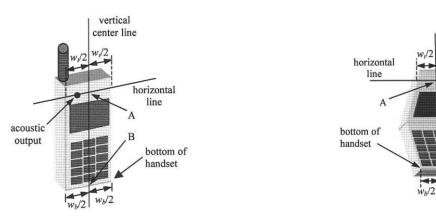


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

vertical

center line

acoustic output

Report No.: FA440108

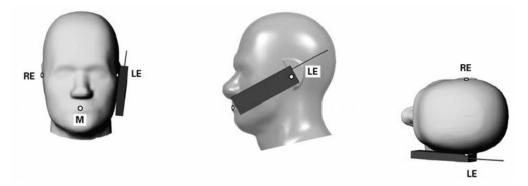


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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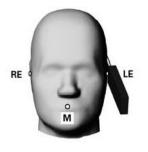
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 Issued Date: May 07, 2014

FCC ID : WVBA768X Page 18 of 42 Form version. : 140422

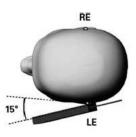


11.3 Definition of the tilt position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- Rotate the handset around the horizontal line by 15°. 3.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point







Report No. : FA440108

Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 19 of 42



11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB 648474 D04v01r02, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v05r02 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Report No.: FA440108

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

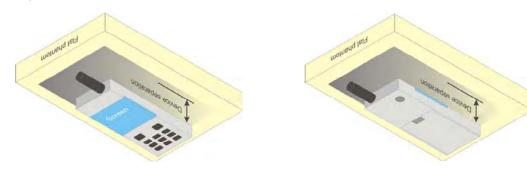


Fig 9.4 Body Worn Position

11.5 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC HDB Publication 941225 D06v01r01 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v05r02 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.



12. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

General Note:

1. Per KDB 447498 D01v05r02, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Report No. : FA440108

- 2. According to October 2013TCB Workshop, For GSM / GPRS, the number of time slots to test for SAR should correspond to the highest source-based time-averaged maximum output power configuration, Considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR testing, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900 band due to its highest frame-average power.
- 3. For hotspot mode SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS 4 Tx slots for GSM850/GSM1900 band due to its highest frame-average power.

SIM1:

Olivi I .								
Band GSM850	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.41	32.43	32.48	32.5	23.41	23.43	23.48	23.5
GPRS (GMSK, 1 Tx slot) – CS1	32.37	32.39	32.37	32.5	23.37	23.39	23.37	23.5
GPRS (GMSK, 2 Tx slots) – CS1	29.83	29.89	29.90	30.0	23.83	23.89	23.90	24.0
GPRS (GMSK, 3 Tx slots) – CS1	27.85	27.91	27.94	28.0	23.59	23.65	23.68	23.74
GPRS (GMSK, 4 Tx slots) – CS1	26.89	26.93	26.95	27.5	23.89	23.93	23.95	24.5
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	ver (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Av 512	erage Pow 661	er (dBm) 810	Limit	Frame-Av 512	verage Pov 661	ver (dBm) 810	Limit
TX Channel	512	661	810	Limit	512	661	810	Limit
TX Channel Frequency (MHz)	512 1850.2	661 1880	810 1909.8	Limit (dBm)	512 1850.2	661 1880	810 1909.8	Limit (dBm)
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 28.81	661 1880 29.01	810 1909.8 29.07	Limit (dBm) 29.5	512 1850.2 19.81	661 1880 20.01	810 1909.8 20.07	Limit (dBm) 20.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 28.81 28.80	661 1880 29.01 28.85	810 1909.8 29.07 28.98	Limit (dBm) 29.5 29.5	512 1850.2 19.81 19.80	661 1880 20.01 19.85	810 1909.8 20.07 19.98	Limit (dBm) 20.5 20.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1 GPRS (GMSK, 2 Tx slots) – CS1	512 1850.2 28.81 28.80 27.87	661 1880 29.01 28.85 27.91	810 1909.8 29.07 28.98 28.03	Limit (dBm) 29.5 29.5 28.5	512 1850.2 19.81 19.80 21.87	661 1880 20.01 19.85 21.91	810 1909.8 20.07 19.98 22.03	Limit (dBm) 20.5 20.5 22.5

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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SIM2:

Band GSM850	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	Frame-Average Power (dBm)		
TX Channel	128	189	251	Limit	128	189	251	Tune-up Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM (GMSK, 1 Tx slot)	32.40	32.41	<mark>32.42</mark>	32.5	23.40	23.41	23.42	23.5
GPRS (GMSK, 1 Tx slot) – CS1	32.34	32.35	32.38	32.5	23.34	23.35	23.38	23.5
GPRS (GMSK, 2 Tx slots) – CS1	29.80	29.83	29.86	30.0	23.80	23.83	23.86	24.0
GPRS (GMSK, 3 Tx slots) – CS1	27.79	27.88	27.91	28.0	23.53	23.62	23.65	23.74
GPRS (GMSK, 4 Tx slots) – CS1	26.85	26.90	26.92	27.5	23.85	23.90	23.92	24.5
		Average Power (dBm)						
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	erage Pov	ver (dBm)	Tune-up
Band GSM1900 TX Channel	Burst Av 512	erage Pow 661	er (dBm) 810	Limit	Frame-Av 512	erage Pov 661	ver (dBm) 810	Tune-up Limit
TX Channel	512	661	810	Limit	512	661	810	Limit
TX Channel Frequency (MHz)	512 1850.2	661 1880	810 1909.8	Limit (dBm)	512 1850.2	661 1880	810 1909.8	Limit (dBm)
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot)	512 1850.2 28.74	661 1880 28.84	810 1909.8 28.92	Limit (dBm) 29.5	512 1850.2 19.74	661 1880 19.84	810 1909.8 19.92	Limit (dBm) 20.5
TX Channel Frequency (MHz) GSM (GMSK, 1 Tx slot) GPRS (GMSK, 1 Tx slot) – CS1	512 1850.2 28.74 28.64	661 1880 28.84 27.62	810 1909.8 28.92 28.81	Limit (dBm) 29.5 29.5	512 1850.2 19.74 19.64	661 1880 19.84 18.62	810 1909.8 19.92 19.81	Limit (dBm) 20.5 20.5

Report No.: FA440108

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB
Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB
Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB
Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 22 of 42



<WCDMA Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.

Report No. : FA440108

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βο	βa	β _d (SF)	β₀/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{ls} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, $\Delta_{\rm ACK}$ and $\Delta_{\rm NACK}$ = 30/15 with β_{hs} = 30/15 * β_{c} , and $\Delta_{\rm CQI}$ = 24/15

with $\beta_{ls} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_{\text{e}}/\beta_{\text{d}}$ =12/15, $\beta_{\text{hs}}/\beta_{\text{e}}$ =24/15. For all other combinations of DPDCH, DPCCH and HSDPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Setup Configuration

FCC ID : WVBA768X Page 23 of 42 Form version. : 140422



HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting *:
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121

Report No. : FA440108

- iii. Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
- vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βς	βa	β _d (SF)	βε/βα	βнs (Note1)	βес	β _{ed} (Note 5) (Note 6)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

- Note 1: Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c .
- Note 2: CM = 1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
- Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
- Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
- Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

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 Issued Date: May 07, 2014

FCC ID: WVBA768X Page 24 of 42 Form version.: 140422



<WCDMA Conducted Power>

General Note:

- Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1 V9.1.0 to Rel. 6 HSPA.
- SAR testing in AMR configuration is not required when the maximum average output of each RF channel for AMR 12.2Kbps is less than 0.25dB higher than that measured in RMC 12.2Kbps
 It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of

Report No. : FA440108

- It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.
- 4. Per KDB 941225 D02v02r02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA output power is < 0.25dB higher than RMC, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA SAR evaluation can be excluded.

SIM1:

D												
	Ba	nd		WCDM	A Band V			WCDMA	A Band II			
	TX Ch	annel	4132	4182	4233	Tune-up	9262	9400	9538	Tune-up		
	Rx Ch	annel	4357	4407	4458	Limit	9662	9800	9938	Limit		
	Frequency (MHz)		826.4	836.4	846.6	(dBm)	1852.4	1880	1907.6	(dBm)		
MPR	3GPP Rel 99	AMR 12.2Kbps	22.95	23.05	22.90	23.5	22.20	22.50	22.62	23.0		
(dB)	3GPP Rel 99	RMC 12.2Kbps	22.96	23.06	22.93	23.5	22.21	22.51	22.63	23.0		
0	3GPP Rel 6	HSDPA Subtest-1	20.75	20.78	20.73	21.0	20.27	20.45	20.70	21.0		
0	3GPP Rel 6	HSDPA Subtest-2	20.76	20.80	20.73	21.0	20.31	20.46	20.74	21.0		
0.5	3GPP Rel 6	HSDPA Subtest-3	20.75	20.79	20.72	21.0	20.15	20.05	20.25	20.5		
0.5	3GPP Rel 6	HSDPA Subtest-4	20.76	20.81	20.73	21.0	20.18	20.08	20.30	20.5		
0	3GPP Rel 6	HSUPA Subtest-1	20.75	20.87	20.74	21.0	20.28	20.44	20.61	21.0		
2	3GPP Rel 6	HSUPA Subtest-2	19.69	20.13	19.78	20.5	19.25	19.00	19.15	19.5		
1	3GPP Rel 6	HSUPA Subtest-3	20.26	20.35	20.20	20.5	20.26	19.94	20.55	21.0		
2	3GPP Rel 6	HSUPA Subtest-4	19.31	19.40	19.26	19.5	18.75	18.94	19.12	19.5		
0	3GPP Rel 6	HSUPA Subtest-5	20.88	20.92	20.85	21.0	20.95	20.73	20.93	21.0		

SIM2:

	Ва	nd		WCDM	A Band V			WCDMA	Band II	
	TX Ch	annel	4132	4182	4233	Tune-up	9262	9400	9538	Tune-up
	Rx Ch	annel	4357	4407	4458	Limit	9662	9800	9938	Limit
	Frequency (MHz)		826.4	836.4	846.6	(dBm)	1852.4	1880	1907.6	(dBm)
MPR	3GPP Rel 99	AMR 12.2Kbps	22.70	22.82	22.70	23.5	22.12	22.47	22.59	23.0
(dB)	3GPP Rel 99	RMC 12.2Kbps	22.72	<mark>22.84</mark>	22.71	23.5	22.14	22.49	<mark>22.60</mark>	23.0
0	3GPP Rel 6	HSDPA Subtest-1	20.73	20.77	20.66	21.0	20.21	20.54	20.76	21.0
0	3GPP Rel 6	HSDPA Subtest-2	20.73	20.78	20.70	21.0	20.17	20.48	20.75	21.0
0.5	3GPP Rel 6	HSDPA Subtest-3	20.66	20.75	20.52	21.0	20.23	20.50	20.68	20.5
0.5	3GPP Rel 6	HSDPA Subtest-4	20.67	20.73	20.43	21.0	20.19	20.47	20.77	20.5
0	3GPP Rel 6	HSUPA Subtest-1	20.76	20.79	20.71	21.0	20.08	20.21	20.31	21.0
2	3GPP Rel 6	HSUPA Subtest-2	19.93	20.06	19.88	20.5	19.13	19.22	19.34	19.5
1	3GPP Rel 6	HSUPA Subtest-3	20.27	20.29	20.23	20.5	20.06	20.13	20.32	21.0
2	3GPP Rel 6	HSUPA Subtest-4	19.26	19.33	19.22	19.5	18.65	18.76	18.95	19.5
0	3GPP Rel 6	HSUPA Subtest-5	20.79	20.80	20.73	21.0	20.65	20.77	20.82	21.0

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791 Issued Date: May 07, 2014

FCC ID : WVBA768X Page 25 of 42 Form version. : 140422



< WLAN Conducted Power>

General Note:

1. For 2.4GHz WLAN SAR testing, highest average RF output power channel for the lowest data rate for 802.11b were selected for SAR evaluation. 802.11g/n HT20/HT40 were not investigated since the average output powers over all channels and data rates were not more than 0.25 dB higher than the tested channel in the lowest data rate of 802.11b mode.

Report No.: FA440108

		802.11	b Average Power (dBi	m)							
Channel	Frequency	Data Rate (bps)									
Channel	(MHz)	1M bps 2M bps 5.5M bps 11M bps									
CH 1	2412	12.27	12.18	12.25	12.15						
CH 6	2437	13.03	13.03 12.98 12.96 12.93								
CH 11	2462	13.33 13.28 13.25 13.28									

	802.11g Average Power (dBm)											
Channel	Frequency		Data Rate (bps)									
Channel	(MHz)	6M bps	SM bps 9M bps 12M bps 18M bps 24M bps 36M bps 48M bps 54M bp									
CH 1	2412	7.34	7.26	7.31	7.38	7.28	7.28	7.25	7.22			
CH 6	2437	7.87	7.87 7.76 7.79 7.85 7.75 7.75 7.76 7.72									
CH 11	2462	<mark>8.56</mark>										

	WLAN 2.4GHz Band 802.11n-HT20 Average Power (dBm)											
Channel Frequency MCS Index												
Channel	(MHz)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7										
CH 1	2412	7.19	7.19 7.17 6.96 7.14 7.15 7.15 7.17 7.									
CH 6	2437	7.94	7.94 7.89 7.66 7.83 7.81 7.87 7.87 7.89									
CH 11	2462	<mark>8.51</mark>										

	WLAN 2.4GHz Band 802.11n-HT40 Average Power (dBm)											
Channel	Frequency	Frequency MCS Index										
Charmer	(MHz)	MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 MCS7										
CH 3	2422	6.17	6.17 6.14 6.09 6.14 6.18 6.14 6.15 6									
CH 6	2437	6.75	6.75 6.70 6.63 6.63 6.73 6.67 6.67 6.65									
CH 9	2452	<mark>7.09</mark>	7.09 7.01 6.99 7.00 7.06 7.03 6.98 6.96									



13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)					
Mode Ballu	Bluetooth v3.0+EDR	Bluetooth v4.0 LE				
2.4GHz Bluetooth	2.0	-6.0				

Report No.: FA440108

Note:

1. Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

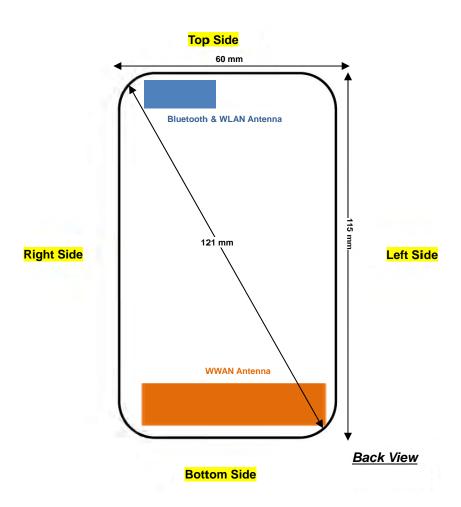
Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
2.0	0	2.48	0.63

Note: Per KDB 447498 D01v05r02, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.63 which is <= 3, SAR testing is not required.

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14. Antenna Location



Report No.: FA440108

	Distance of the Antenna to the EUT surface/edge											
Antennas Back Front Top Side Bottom Side Right Side Left Side												
WWAN	≤ 25mm	≤ 25mm	100mm	≤ 25mm	≤ 25mm	≤ 25mm						
BT&WLAN	BT&WLAN ≤ 25mm ≤ 25mm 98mm ≤ 25mm 36mm											

Positions for SAR tests; Hotspot mode										
Antennas Back Front Top Side Bottom Side Right Side Left Side										
WWAN	Yes	Yes	No	Yes	Yes	Yes				
BT&WLAN	Yes	Yes	Yes	No	Yes	No				

General Note: Referring to KDB 941225 D06 v01r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

Issued Date: May 07, 2014 FCC ID: WVBA768X Form version.: 140422 Page 28 of 42



15. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v05r02, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

Report No. : FA440108

- b. Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- 2. Per KDB 447498 D01v05r02, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - · ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - · ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. According to October 2013TCB Workshop, For GSM / GPRS, the number of time slots to test for SAR should correspond to the highest source-based time-averaged maximum output power configuration, Considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR testing, the EUT was set in GPRS (4Tx slots) for GSM850/GSM1900 band due to its highest frame-average power.
- 4. For hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS 4 Tx slots for GSM850/GSM1900 band due to its highest frame-average power.
- Per KDB 941225 D02v02r02, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA output power is < 0.25dB higher than RMC, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA SAR evaluation can be excluded.
- 6. Pre KDB648474 D04v01r02, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
- 7. Additional WLAN SAR with headset testing was performed for simultaneous transmission analysis.

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TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791 Issued Date: May 07, 2014 FCC ID: WVBA768X Page 29 of 42 Form version: : 140422



15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	GSM850	GPRS (GMSK 4 Tx slot)	Right Cheek	251	848.8	26.95	27.5	1.135	-0.03	0.415	0.471
	GSM850	GPRS (GMSK 4 Tx slot)	Right Tilted	251	848.8	26.95	27.5	1.135	0.15	0.322	0.365
	GSM850	GPRS (GMSK 4 Tx slot)	Left Cheek	251	848.8	26.95	27.5	1.135	0.12	0.359	0.407
	GSM850	GPRS (GMSK 4 Tx slot)	Left Tilted	251	848.8	26.95	27.5	1.135	-0.02	0.348	0.395
	GSM1900	GPRS (GMSK 4 Tx slot)	Right Cheek	810	1909.8	25.64	26.5	1.219	0.09	0.372	0.453
	GSM1900	GPRS (GMSK 4 Tx slot)	Right Tilted	810	1909.8	25.64	26.5	1.219	0.04	0.193	0.235
02	GSM1900	GPRS (GMSK 4 Tx slot)	Left Cheek	810	1909.8	25.64	26.5	1.219	0.01	0.392	0.478
	GSM1900	GPRS (GMSK 4 Tx slot)	Left Tilted	810	1909.8	25.64	26.5	1.219	0.11	0.185	0.226

Report No. : FA440108

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2K	Right Cheek	4182	836.4	23.06	23.5	1.107	0.06	0.229	0.253
	WCDMA Band V	RMC 12.2K	Right Tilted	4182	836.4	23.06	23.5	1.107	-0.03	0.195	0.216
03	WCDMA Band V	RMC 12.2K	Left Cheek	4182	836.4	23.06	23.5	1.107	-0.05	0.255	<mark>0.282</mark>
	WCDMA Band V	RMC 12.2K	Left Tilted	4182	836.4	23.06	23.5	1.107	0.06	0.210	0.232
	WCDMA Band II	RMC 12.2K	Right Cheek	9538	1907.6	22.63	23.0	1.089	0.17	0.555	0.604
	WCDMA Band II	RMC 12.2K	Right Tilted	9538	1907.6	22.63	23.0	1.089	0.15	0.246	0.268
04	WCDMA Band II	RMC 12.2K	Left Cheek	9538	1907.6	22.63	23.0	1.089	0.04	0.572	<mark>0.623</mark>
	WCDMA Band II	RMC 12.2K	Left Tilted	9538	1907.6	22.63	23.0	1.089	-0.01	0.265	0.289

<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b, 1Mbps	Right Cheek	11	2462	13.33	14	1.167	0.07	0.082	0.096
	WLAN 2.4GHz	802.11b, 1Mbps	Right Tilted	11	2462	13.33	14	1.167	0.06	0.052	0.061
05	WLAN 2.4GHz	802.11b, 1Mbps	Left Cheek	11	2462	13.33	14	1.167	0.10	0.221	<mark>0.258</mark>
	WLAN 2.4GHz	802.11b, 1Mbps	Left Tilted	11	2462	13.33	14	1.167	0.08	0.105	0.123



15.2 Hotspot SAR

Distance of the Antenna to the EUT surface/edge										
Antennas Back Front Top Side Bottom Side Right Side Left Side										
WWAN	≤ 25mm	≤ 25mm	100mm	≤ 25mm	≤ 25mm	≤ 25mm				
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	98mm	≤ 25mm	36mm				

Positions for SAR tests; Hotspot mode												
Antennas Back Front Top Side Bottom Side Right Side Left Side												
WWAN	Yes	Yes	No	Yes	Yes	Yes						
BT&WLAN Yes Yes No Yes No												

General Note: Referring to KDB 941225 D06 v01r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slot)	Front	1	251	848.8	26.95	27.5	1.135	-0.02	0.321	0.364
06	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	251	848.8	26.95	27.5	1.135	-0.06	1.200	1.362
	GSM850	GPRS (GMSK 4 Tx slot)	Left Side	1	251	848.8	26.95	27.5	1.135	0.15	0.445	0.505
	GSM850	GPRS (GMSK 4 Tx slot)	Right Side	1	251	848.8	26.95	27.5	1.135	0.11	0.450	0.511
	GSM850	GPRS (GMSK 4 Tx slot)	Bottom Side	1	251	848.8	26.95	27.5	1.135	0.03	0.061	0.069
	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	128	824.2	26.89	27.5	1.151	0.07	1.090	1.254
	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	189	836.4	26.93	27.5	1.140	-0.06	1.170	1.334
	GSM1900	GPRS (GMSK 4 Tx slot)	Front	1	810	1909.8	25.64	26.5	1.219	0.03	0.543	0.662
	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	810	1909.8	25.64	26.5	1.219	0.02	0.725	0.884
	GSM1900	GPRS (GMSK 4 Tx slot)	Left Side	1	810	1909.8	25.64	26.5	1.219	0.05	0.067	0.082
	GSM1900	GPRS (GMSK 4 Tx slot)	Right Side	1	810	1909.8	25.64	26.5	1.219	-0.03	0.118	0.144
	GSM1900	GPRS (GMSK 4 Tx slot)	Bottom Side	1	810	1909.8	25.64	26.5	1.219	0.10	0.243	0.296
	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	512	1850.2	25.52	26.5	1.253	0.03	0.738	0.925
07	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	661	1880	25.61	26.5	1.227	0.04	0.770	0.94 <mark>5</mark>

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2K	Front	1	4182	836.4	23.06	23.5	1.107	0.13	0.538	0.595
	WCDMA Band V	RMC 12.2K	Back	1	4182	836.4	23.06	23.5	1.107	0.05	1.160	1.284
	WCDMA Band V	RMC 12.2K	Left Side	1	4182	836.4	23.06	23.5	1.107	0.01	0.516	0.571
	WCDMA Band V	RMC 12.2K	Right Side	1	4182	836.4	23.06	23.5	1.107	0.03	0.551	0.610
	WCDMA Band V	RMC 12.2K	Bottom Side	1	4182	836.4	23.06	23.5	1.107	0.13	0.067	0.074
	WCDMA Band V	RMC 12.2K	Back	1	4132	826.4	22.96	23.5	1.132	-0.01	1.230	1.393
08	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.93	23.5	1.140	-0.01	1.280	<mark>1.460</mark>
	WCDMA Band II	RMC 12.2K	Front	1	9538	1907.6	22.63	23.0	1.089	-0.05	0.616	0.671
	WCDMA Band II	RMC 12.2K	Back	1	9538	1907.6	22.63	23.0	1.089	0.01	0.929	1.012
	WCDMA Band II	RMC 12.2K	Left Side	1	9538	1907.6	22.63	23.0	1.089	0.16	0.139	0.151
	WCDMA Band II	RMC 12.2K	Right Side	1	9538	1907.6	22.63	23.0	1.089	0.06	0.128	0.139
	WCDMA Band II	RMC 12.2K	Bottom Side	1	9538	1907.6	22.63	23.0	1.089	0.09	0.508	0.553
	WCDMA Band II	RMC 12.2K	Back	1	9262	1852.4	22.21	23.0	1.199	0.06	0.881	1.057
09	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.51	23.0	1.119	0.05	0.991	<mark>1.109</mark>

Page 31 of 42

SPORTON INTERNATIONAL (XI'AN) INC.

FCC ID: WVBA768X

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

Issued Date: May 07, 2014 Form version.: 140422

Report No.: FA440108



<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b,1Mbps	Front	1	11	2462	13.33	14	1.167	0.06	0.027	0.032
10	WLAN 2.4GHz	802.11b,1Mbps	Back	1	11	2462	13.33	14	1.167	-0.05	0.090	0.10 <mark>5</mark>
	WLAN 2.4GHz	802.11b,1Mbps	Right Side	1	11	2462	13.33	14	1.167	0.03	0.042	0.049
	WLAN 2.4GHz	802.11b,1Mbps	Top Side	1	11	2462	13.33	14	1.167	0.09	0.042	0.049

Report No.: FA440108



15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS (GMSK 4 Tx slot)	Front	1	251	848.8	26.95	27.5	1.135	-0.02	0.321	0.364
06	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	251	848.8	26.95	27.5	1.135	-0.06	1.200	<mark>1.362</mark>
	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	128	824.2	26.89	27.5	1.151	0.07	1.090	1.254
	GSM850	GPRS (GMSK 4 Tx slot)	Back	1	189	836.4	26.93	27.5	1.140	-0.06	1.170	1.334
	GSM850	GPRS (GMSK 4 Tx slot)	Back with Headset	1	251	848.8	26.95	27.5	1.135	-0.02	0.450	0.511
	GSM1900	GPRS (GMSK 4 Tx slot)	Front	1	810	1909.8	25.64	26.5	1.219	0.03	0.543	0.662
	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	810	1909.8	25.64	26.5	1.219	0.02	0.725	0.884
	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	512	1850.2	25.52	26.5	1.253	0.03	0.738	0.925
07	GSM1900	GPRS (GMSK 4 Tx slot)	Back	1	661	1880	25.61	26.5	1.227	0.04	0.770	0.94 <mark>5</mark>

Report No. : FA440108

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA Band V	RMC 12.2K	Front	1	4182	836.4	23.06	23.5	1.107	0.13	0.538	0.595
	WCDMA Band V	RMC 12.2K	Back	1	4182	836.4	23.06	23.5	1.107	0.05	1.160	1.284
	WCDMA Band V	RMC 12.2K	Back	1	4132	826.4	22.96	23.5	1.132	-0.01	1.230	1.393
80	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.93	23.5	1.140	-0.01	1.280	1.460
	WCDMA Band V	RMC 12.2K	Back with Headset	1	4233	846.6	22.93	23.5	1.140	-0.04	0.425	0.485
	WCDMA Band II	RMC 12.2K	Front	1	9538	1907.6	22.63	23.0	1.089	-0.05	0.616	0.671
	WCDMA Band II	RMC 12.2K	Back	1	9538	1907.6	22.63	23.0	1.089	0.01	0.929	1.012
	WCDMA Band II	RMC 12.2K	Back	1	9262	1852.4	22.21	23.0	1.199	0.06	0.881	1.057
09	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.51	23.0	1.119	0.05	0.991	1.109

<DTS WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN 2.4GHz	802.11b,1Mbps	Front	1	11	2462	13.33	14	1.167	0.06	0.027	0.032
	WLAN 2.4GHz	802.11b,1Mbps	Back	1	11	2462	13.33	14	1.167	-0.05	0.090	0.105
11	WLAN 2.4GHz	802.11b,1Mbps	Back with Headset	1	11	2462	13.33	14	1.167	-0.02	0.122	0.142



15.4 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.93	23.5	1.140	-0.01	1.280	1	1.460
2nd	WCDMA Band V	RMC 12.2K	Back	1	4233	846.6	22.93	23.5	1.140	-0.01	1.210	1.058	1.380
1st	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.51	23.0	1.119	0.05	0.991	1	1.109
2nd	WCDMA Band II	RMC 12.2K	Back	1	9400	1880	22.51	23.0	1.119	0.02	0.923	1.074	1.033

Report No.: FA440108

General Note:

- 1. Per KDB 865664 D01v01r03, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
- 2. Per KDB 865664 D01v01r03, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



16. Simultaneous Transmission Analysis

NO	0	P	ortable Hands	et	Note	
NO.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Note	
1.	GSM(Voice) + WLAN2.4GHz(data)	Yes	Yes	-	-	
2.	WCDMA(Voice) + WLAN2.4GHz(data)	Yes	Yes	-	-	
3.	GSM(Voice) + Bluetooth(data)	Yes	Yes	ı	-	
4.	WCDMA((Voice) + Bluetooth(data)	Yes	Yes	i	-	
5.	GPRS (Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot	
6.	WCDMA(Data) + WLAN2.4GHz(data)	Yes	Yes	Yes	2.4GHz Hotspot	
7.	GPRS (Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering	
8.	WCDMA(Data) + Bluetooth(data)	Yes	Yes	Yes	Bluetooth Tethering	

Report No. : FA440108

Form version. : 140422

General Note:

FCC ID: WVBA768X

- WLAN 2.4GHz and Bluetooth share the same antenna, and cannot transmit simultaneously. 1.
- EUT will choose each of GSM and WCDMA according to the network signal condition; therefore, they will not 2. transmit simultaneously at any moment.
- 3. The Reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v05r02, simultaneous transmission SAR is compliant if,

 - i) Scalar SAR summation < 1.6W/kg.
 ii) SPLSR = (SAR₁ + SAR₂)^{1.5} / (*min. separation distance, mm*), and the peak separation distance is determined from the square root of [(x₁-x₂)² + (y₁-y₂)² + (z₁-z₂)²], where (x₁, y₁, z₁) and (x₂, y₂, z₂) are the coordinates of the extrapolated peak SAR locations in the zoom scan
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v05r02 based on the formula below.
 - i) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
 - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.
 - iv) Bluetooth estimated SAR is conservatively determined by 5mm separation, for all applicable exposure positions.

Bluetooth	Exposure Position	Head	Hotspot	Body worn
Max Power	Test separation	0 mm	10 mm	10 mm
2.0 dBm	Estimated SAR (W/kg)	0.084 W/kg	0.042 W/kg	0.042 W/kg

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Page 35 of 42



16.1 Head Exposure Conditions

<WWAN + WLAN>

		Exposure	WWAN	WLAN DTS	Summed		
1AWW	N Band	Position	SAR (W/kg)	SAR (W/kg)	SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.471	0.096	0.57		
	GSM850	Right Tilted	0.365	0.061	0.43		
	GSIVI650	Left Cheek	0.407	0.258	0.67		
GSM		Left Tilted	0.395	0.123	0.52		
GSIVI		Right Cheek	0.453	0.096	0.55		
	GSM1900	Right Tilted	0.235	0.061	0.30		
	GSW1900	Left Cheek	0.478	0.258	0.74		
		Left Tilted	0.226	0.123	0.35		
		Right Cheek	0.253	0.096	0.35		
	Dond V	Right Tilted	0.216	0.061	0.28		
	Band V	Left Cheek	0.282	0.258	0.54		
WCMDA		Left Tilted	0.232	0.123	0.36		
WCMDA		Right Cheek	0.604	0.096	0.70		
	Dond II	Right Tilted	0.268	0.061	0.33		
	Band II	Left Cheek	0.623	0.258	0.88		
		Left Tilted	0.289	0.123	0.41		

Report No. : FA440108

<WWAN + Bluetooth>

1AWW	N Band	Exposure Position	WWAN SAR (W/kg)	Bluetooth DSS Estimated SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Right Cheek	0.471	0.084	0.56		
	GSM850	Right Tilted	0.365	0.084	0.45		
	GSIVIOSO	Left Cheek	0.407	0.084	0.49		
GSM		Left Tilted	0.395	0.084	0.48		
GSIVI		Right Cheek	0.453	0.084	0.54		
	GSM1900	Right Tilted	0.235	0.084	0.32		
	GSW1900	Left Cheek	0.478	0.084	0.56		
		Left Tilted	0.226	0.084	0.31		
		Right Cheek	0.253	0.084	0.34		
	Band V	Right Tilted	0.216	0.084	0.30		
	band v	Left Cheek	0.282	0.084	0.37		
WCMDA		Left Tilted	0.232	0.084	0.32		
WCMDA		Right Cheek	0.604	0.084	0.69		
	Dond II	Right Tilted	0.268	0.084	0.35		
	Band II	Left Cheek	0.623	0.084	0.71		
		Left Tilted	0.289	0.084	0.37		

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 36 of 42



16.2 Hotspot Exposure Conditions

<WWAN + WLAN>

<wwan +="" wlan=""></wwan>		Exposure	WWAN	WLAN DTS	Summed	SPLSR	
WWAI	WWAN Band		SAR (W/kg)	SAR (W/kg)	SAR (W/kg)		Case No
		Front	0.364	0.032	0.40		
		Back	1.362	0.105	1.47		
	GSM850	Left Side	0.505		0.51		
	GSIVIOSO	Right Side	0.511	0.049	0.56		
		Top Side		0.049	0.05		
GSM		Bottom Side	0.069		0.07		
GSIVI		Front	0.662	0.032	0.69		
		Back	0.945	0.105	1.05		
	GSM1900	Left Side	0.082		0.08		
		Right Side	0.144	0.049	0.19		
		Top Side		0.049	0.05		
		Bottom Side	0.296		0.30		
	Band V	Front	0.595	0.032	0.63		
		Back	1.460	0.105	1.57		
		Left Side	0.571		0.57		
		Right Side	0.610	0.049	0.66		
		Top Side		0.049	0.05		
MCMDA		Bottom Side	0.074		0.07		
WCMDA		Front	0.671	0.032	0.70		
		Back	1.109	0.105	1.21		
	5	Left Side	0.151		0.15		
	Band II	Right Side	0.139	0.049	0.19		
		Top Side		0.049	0.05		
		Bottom Side	0.553		0.55		

Report No.: FA440108



<WWAN + Bluetooth>

<www.an +="" bluetootn=""></www.an>		Exposure	WWAN	Bluetooth DSS	Summed	SPLSR	
MWAN	WWAN Band		SAR (W/kg)	Estimated SAR (W/kg)	SAR (W/kg)		Case No
		Front	0.364	0.042	0.41		
		Back	1.362	0.042	1.40		
	GSM850	Left Side	0.505		0.51		
	G3101030	Right Side	0.511	0.042	0.55		
		Top Side		0.042	0.04		
GSM		Bottom Side	0.069		0.07		
GSIVI		Front	0.662	0.042	0.70		
	GSM1900	Back	0.945	0.042	0.99		
		Left Side	0.082		0.08		
		Right Side	0.144	0.042	0.19		
		Top Side		0.042	0.04		
		Bottom Side	0.296		0.30		
	Band V	Front	0.595	0.042	0.64		
		Back	1.460	0.042	1.50		
		Left Side	0.571		0.57		
		Right Side	0.610	0.042	0.65		
		Top Side		0.042	0.04		
WCMDA		Bottom Side	0.074		0.07		
WCMDA	Band II	Front	0.671	0.042	0.71		
		Back	1.109	0.042	1.15		
		Left Side	0.151		0.15		
		Right Side	0.139	0.042	0.18		
		Top Side		0.042	0.04		
		Bottom Side	0.553		0.55		

Report No.: FA440108

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791

Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 38 of 42



16.3 <u>Body-Worn Accessory Exposure Conditions</u>

<WWAN + WLAN>

WWAN Band		Exposure Position	WWAN SAR (W/kg)	WLAN DTS SAR (W/kg)	Summed SAR (W/kg)	SPLSR	Case No
		Front	0.364	0.032	0.40		
	GSM850	Back	1.362	0.105	1.47		
GSM		Back with Headset	0.511	0.142	0.65		
GSIVI		Front	0.662	0.032	0.69		
	GSM1900	Back	0.945	0.105	1.05		
		Back with Headset		0.142	0.14		
		Front	0.595	0.032	0.63		
	Band V	Back	1.460	0.105	<mark>1.57</mark>		
WCMDA		Back with Headset	0.485	0.142	0.63		
VVCIVIDA	Band II	Front	0.671	0.032	0.70		
		Back	1.109	0.105	1.21		
		Back with Headset		0.142	0.14		

Report No. : FA440108

<WWAN + Bluetooth>

WWAN Band			WWAN	Bluetooth DSS	Summed	001.00	Case No
		Exposure Position	SAR (W/kg)	Estimated SAR (W/kg)	SAR (W/kg)	SPLSR	
		Front	0.364	0.042	0.41		
	GSM850	Back	1.362	0.042	1.40		
GSM		Back with Headset	0.511	0.042	0.55		
GSIVI		Front	0.662	0.042	0.70		
	GSM1900	Back	0.945	0.042	0.99		
		Back with Headset		0.042	0.04		
		Front	0.595	0.042	0.64		
	Band V	Back	1.460	0.042	<mark>1.50</mark>		
MOMPA		Back with Headset	0.485	0.042	0.53		
WCMDA		Front	0.671	0.042	0.71		
	Band II	Back	1.109	0.042	1.15		
		Back with Headset		0.042	0.04		

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Issued Date: May 07, 2014 Form version. : 140422 FCC ID: WVBA768X Page 39 of 42



17. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

Report No. : FA440108

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 17.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

TEL: +86-029-8860-8767 / FAX: +86-029-8860-8791 Issued Date: May 07, 2014

FCC ID : WVBA768X Page 40 of 42 Form version. : 140422



Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System						•	
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %
Axial Isotropy	4.7	Rectangular	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	0.7	± 3.9 %	± 3.9 %
Boundary Effects	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Linearity	4.7	Rectangular	√3	1	1	± 2.7 %	± 2.7 %
System Detection Limits	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %
Response Time	0.8	Rectangular	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	2.6	Rectangular	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	3.0	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	0.4	Rectangular	√3	1	1	± 0.2 %	± 0.2 %
Probe Positioning	2.9	Rectangular	√3	1	1	± 1.7 %	± 1.7 %
Max. SAR Eval.	1.0	Rectangular	√3	1	1	± 0.6 %	± 0.6 %
Test Sample Related							
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %
Power Drift	5.0	Rectangular	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup							
Phantom Uncertainty	4.0	Rectangular	√3	1	1	± 2.3 %	± 2.3 %
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	± 1.8 %	± 1.2 %
Liquid Conductivity (Meas.)	2.5	Normal	1	0.64	0.43	± 1.6 %	± 1.1 %
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	0.49	± 1.7 %	± 1.4 %
Liquid Permittivity (Meas.)	2.5	Normal	1	0.6	0.49	± 1.5 %	± 1.2 %
Combined Standard Uncertainty							± 10.8 %
Coverage Factor for 95 %						K	=2
Expanded Uncertainty						± 22.0 %	± 21.5 %

Table 17.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

Issued Date: May 07, 2014
Form version.: 140422

Report No. : FA440108



18. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

Report No. : FA440108

- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [6] FCC KDB 447498 D01 v05r02, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Feb 2014
- [7] FCC KDB 648474 D04 v01r02, "SAR Evaluation Considerations for Wireless Handsets", Dec 2013.
- [8] FCC KDB 941225 D01 v02, "SAR Measurement Procedures for 3G Devices CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA", October 2007
- [9] FCC KDB 941225 D02 v02r02, "SAR Guidance for HSPA, HSPA+, DC-HSDPA and 1x-Advanced", May 2013.
- [10] FCC KDB 941225 D03 v01, "Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE", December 2008
- [11] FCC KDB 941225 D06 v01r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", May 2013.
- [12] FCC KDB 865664 D01 v01r03, "SAR Measurement Requirements for 100 MHz to 6 GHz", Feb 2014.
- [13] FCC KDB 865664 D02 v01r01, "RF Exposure Compliance Reporting and Documentation Considerations" May 2013.



Appendix A. Plots of System Performance Check

Report No.: FA440108

The plots are shown as follows.

SPORTON INTERNATIONAL (XI'AN) INC.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/4/24

System Check Head 835MHz 140424

DUT: D835V2-SN: 4d151

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835_140424 Medium parameters used: f = 835 MHz; $\sigma = 0.913$ S/m; $\varepsilon_r = 40.859$; $\rho = 0.913$ S/m; $\varepsilon_r = 40.859$; $\varepsilon_r = 40.8$

 1000 kg/m^3

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

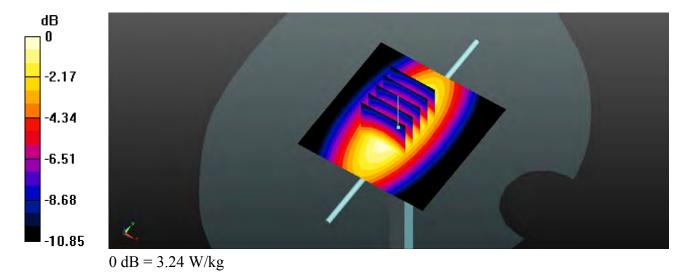
DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.85, 9.85, 9.85); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 3.23 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 60.278 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 2.55 W/kg; SAR(10 g) = 1.66 W/kgMaximum value of SAR (measured) = 3.24 W/kg



System Check Head 1900MHz 140416

DUT: D1900V2-SN:5d170

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140416 Medium parameters used: f = 1900 MHz; $\sigma = 1.435$ S/m; $\varepsilon_r = 38.464$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(8.2, 8.2, 8.2); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

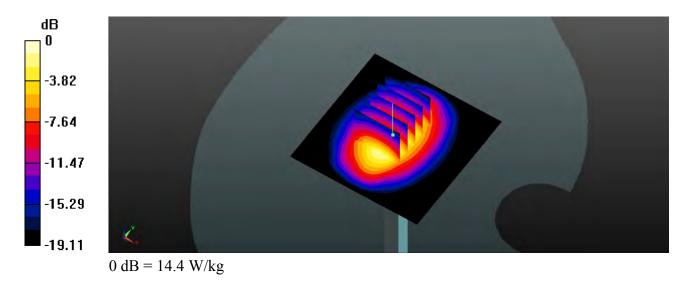
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.8 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 102.1 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 10.20 W/kg; SAR(10 g) = 5.27 W/kg

Maximum value of SAR (measured) = 14.4 W/kg



System Check Head 2450MHz 140424

DUT: D2450V2-SN:908

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450_140424 Medium parameters used: f = 2450 MHz; σ = 1.833 S/m; ϵ_r = 37.683; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.55, 7.55, 7.55); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

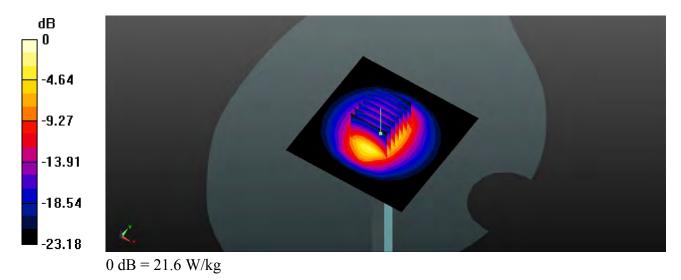
Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 21.5 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 93.315 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 13.80 W/kg; SAR(10 g) = 6.27 W/kg

Maximum value of SAR (measured) = 21.6 W/kg



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/4/23

System Check Body 835MHz 140423

DUT: D835V2-SN: 4d151

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: MSL_835_140423 Medium parameters used: f = 835 MHz; $\sigma = 0.973$ S/m; $\epsilon_r = 54.088$; $\rho = 0.973$ S/m; $\epsilon_r = 54.088$; $\epsilon_r = 54.088$

 1000 kg/m^3

Ambient Temperature: 23.6°C; Liquid Temperature: 22.6°C

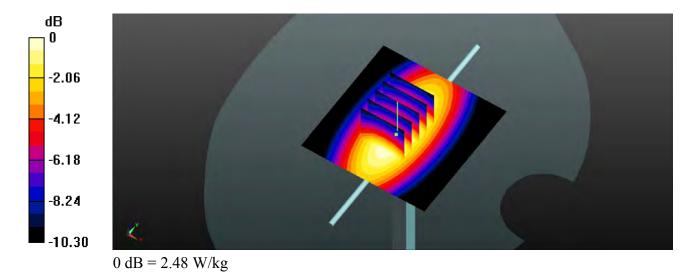
DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.63, 9.63, 9.63); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 2.50 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 50.670 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 3.39 W/kg

SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.53 W/kgMaximum value of SAR (measured) = 2.48 W/kg



System Check Body 1900MHz 140416

DUT: D1900V2-SN:5d170

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_140416 Medium parameters used: f = 1900 MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 54.671$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.83, 7.83, 7.83); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

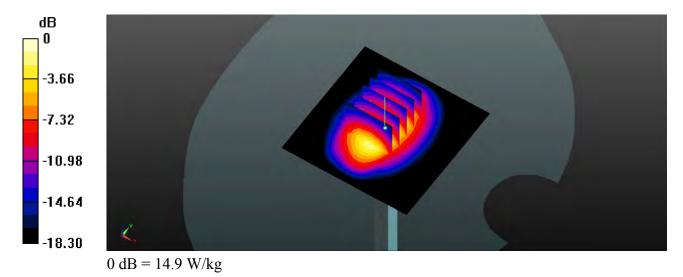
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 14.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 87.072 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.40 W/kg; SAR(10 g) = 5.4 W/kg

Maximum value of SAR (measured) = 14.9 W/kg



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2014/4/24

System Check Body 2450MHz 140424

DUT: D2450V2-SN:908

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: MSL_2450_140424 Medium parameters used: f = 2450 MHz; $\sigma = 1.989$ S/m; $\varepsilon_r = 51.267$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

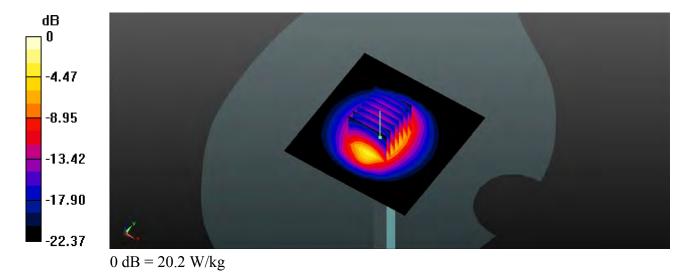
DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.49, 7.49, 7.49); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 20.3 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 86.050 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 27.6 W/kg SAR(1 g) = 13.20 W/kg; SAR(10 g) = 6.06 W/kg

Maximum value of SAR (measured) = 20.2 W/kg





Appendix B. Plots of High SAR Measurement

Report No.: FA440108

The plots are shown as follows.

SPORTON INTERNATIONAL (XI'AN) INC.

01 GSM850_GPRS (GMSK 4 Tx slot)_Right Cheek_Ch251

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: HSL_835_140424 Medium parameters used: f = 848.8 MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 40.705$; $\rho = 1000$ kg/m³

Date: 2014/4/24

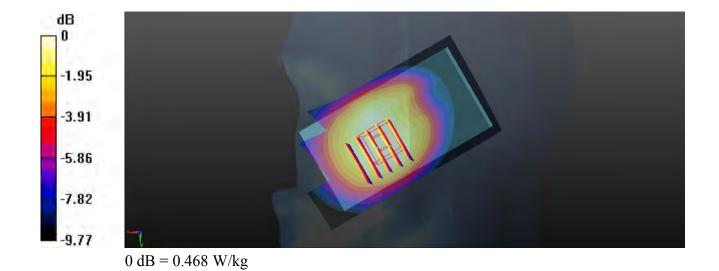
Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.85, 9.85, 9.85); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.490 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.687 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.515 W/kg SAR(1 g) = 0.415 W/kg; SAR(10 g) = 0.313 W/kg Maximum value of SAR (measured) = 0.468 W/kg



02 GSM1900_GPRS (GMSK 4 Tx slot)_Left Cheek_Ch810

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 1909.8 MHz; Duty Cycle: 1:2.08 Medium: HSL_1900_140416 Medium parameters used: f = 1909.8 MHz; $\sigma = 1.445$ S/m; $\epsilon_r = 38.44$; $\rho = 1000$ kg/m³

Date: 2014/4/16

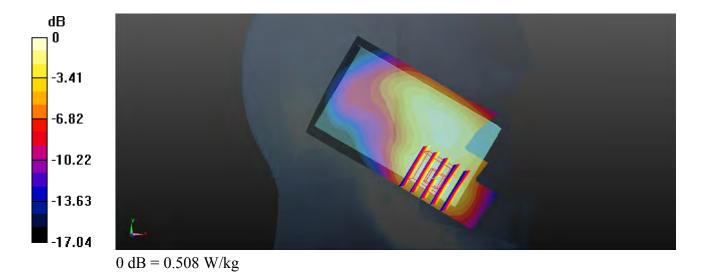
Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(8.2, 8.2, 8.2); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch810/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.543 W/kg

Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 6.494 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.626 W/kg SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.229 W/kg Maximum value of SAR (measured) = 0.508 W/kg



Communication System: WCDMA; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL_835_140424 Medium parameters used: f = 836.4 MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 40.842$; $\rho = 1000$ kg/m³

Date: 2014/4/24

Ambient Temperature : 23.6 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.85, 9.85, 9.85); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch4182/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.257 W/kg

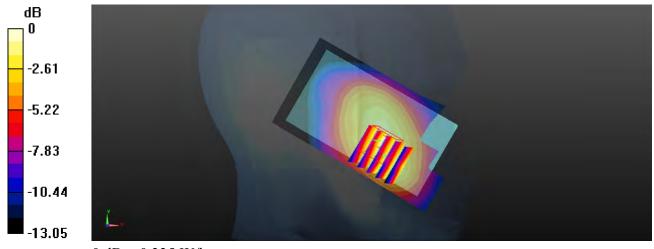
Ch4182/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.850 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 0.335 W/kg



0 dB = 0.335 W/kg

04 WCDMA Band II_RMC 12.2K_Left Cheek_Ch9538

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL_1900_140416 Medium parameters used: f = 1907.6 MHz; $\sigma = 1.443$ S/m; $\epsilon_r = 38.445$; ρ

Date: 2014/4/16

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(8.2, 8.2, 8.2); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

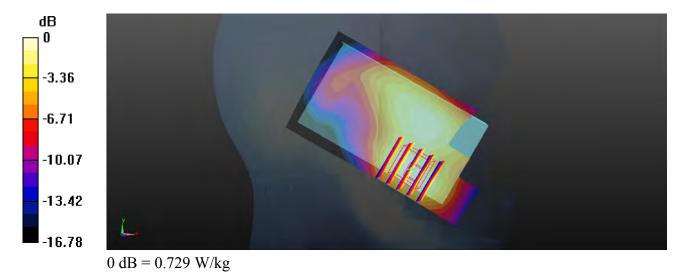
Ch9538/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.767 W/kg

Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 8.363 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.729 W/kg



05 WLAN2.4GHz 802.11b Left Cheek Ch11

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL_2450_140424 Medium parameters used: f = 2462 MHz; $\sigma = 1.849$ S/m; $\epsilon_r = 37.633$; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.55, 7.55, 7.55); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

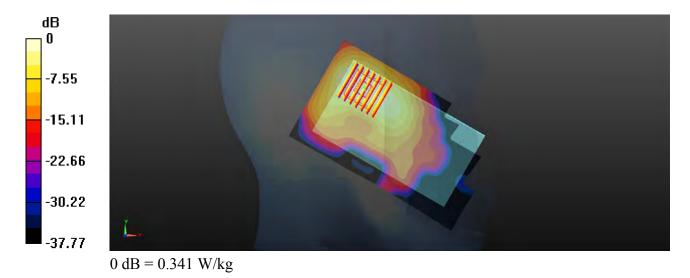
Ch11/Area Scan (71x121x1): Interpolated grid: dx=12mm, dy=12mm Maximum value of SAR (interpolated) = 0.332 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 5.611 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.101 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



06 GSM850_GPRS (GMSK 4 Tx slot)_Back_1.0cm_Ch251

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 848.8 MHz; Duty Cycle: 1:2.08 Medium: MSL_835_140423 Medium parameters used: f = 848.8 MHz; $\sigma = 0.985$ S/m; $\epsilon_r = 53.969$; $\rho = 1000$ kg/m³

Date: 2014/4/23

Ambient Temperature: 23.6°C; Liquid Temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.63, 9.63, 9.63); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch251/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.43 W/kg

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.341 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.60 W/kg

SAR(1 g) = 1.200 W/kg; SAR(10 g) = 0.867 W/kg

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

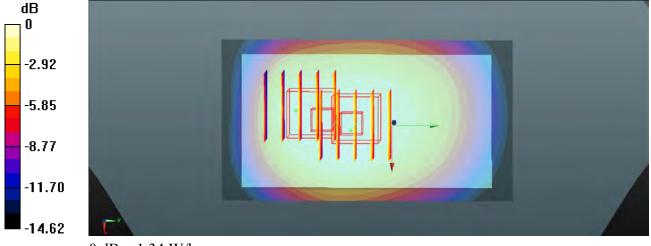
Ch251/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.341 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 1.010 W/kg; SAR(10 g) = 0.702 W/kg

Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg

07 GSM1900_GPRS (GMSK 4 Tx slot)_Back_1.0cm_Ch661

Communication System: GPRS (GMSK 4 Tx slot); Frequency: 1880 MHz; Duty Cycle: 1:2.08 Medium: MSL_1900_140416 Medium parameters used: f = 1880 MHz; $\sigma = 1.509$ S/m; $\epsilon_r = 54.703$; $\rho = 1000$ kg/m³

Date: 2014/4/16

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

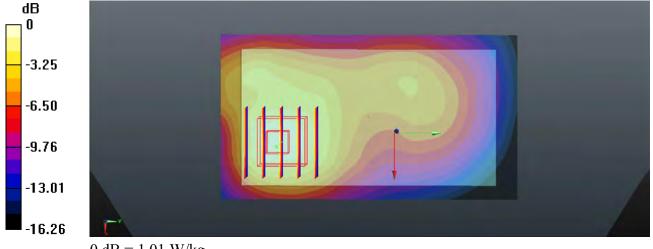
DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.83, 7.83, 7.83); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch661/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.956 W/kg

Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 12.422 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.22 W/kg SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.442 W/kg

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: MSL_835_140423 Medium parameters used: f = 846.6 MHz; $\sigma = 0.983$ S/m; $\epsilon_r = 53.987$; $\rho = 1000 \text{ kg/m}^3$

Date: 2014/4/23

Ambient Temperature: 23.6°C; Liquid Temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(9.63, 9.63, 9.63); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch4233/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm

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

Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.775 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.280 W/kg; SAR(10 g) = 0.925 W/kg

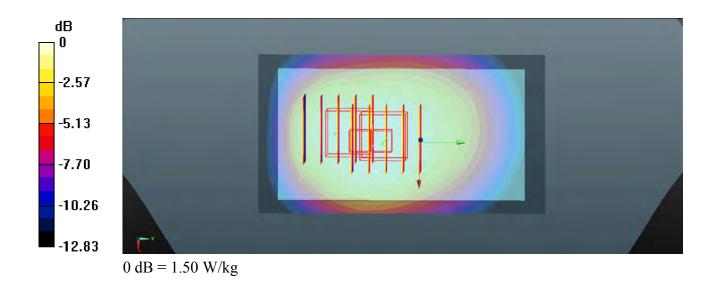
Maximum value of SAR (measured) = 1.50 W/kg

Ch4233/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 35.775 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 1.180 W/kg; SAR(10 g) = 0.803 W/kg



09 WCDMA Band II_RMC 12.2K_Back_1.0cm_Ch9400

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

Medium: MSL_1900_140416 Medium parameters used: f = 1880 MHz; $\sigma = 1.509$ S/m; $\epsilon_r = 54.703$; ρ

Date: 2014/4/16

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.6°C; Liquid Temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.83, 7.83, 7.83); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1753
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch9400/Area Scan (51x91x1): Interpolated grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.29 W/kg

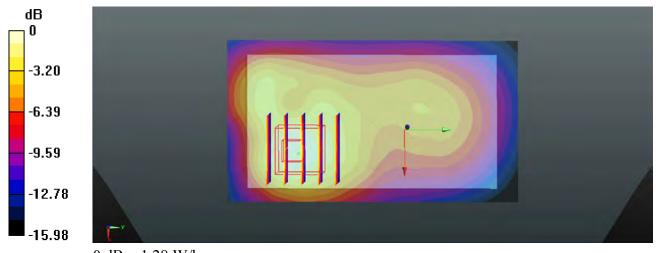
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.414 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.561 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg

10 WLAN2.4GHz_802.11b_Back_1.0cm_Ch11

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_140424 Medium parameters used: f = 2462 MHz; σ = 2.006 S/m; ϵ_r = 51.221; ρ

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.49, 7.49, 7.49); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch11/Area Scan (61x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.132 W/kg

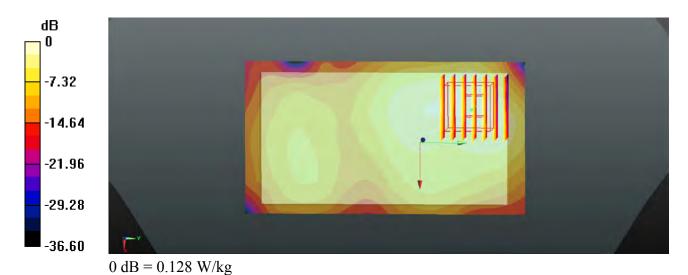
Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.564 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.128 W/kg



11 WLAN2.4G_802.11b_Back_1.0cm_Ch11_Headset

Communication System: 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: MSL_2450_140424 Medium parameters used: f = 2462 MHz; σ = 2.006 S/m; ϵ_r = 51.221; ρ

Date: 2014/4/24

 $= 1000 \text{ kg/m}^3$

Ambient Temperature: 23.5 °C; Liquid Temperature: 22.3 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3898; ConvF(7.49, 7.49, 7.49); Calibrated: 2014/3/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1353; Calibrated: 2014/1/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1754
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

Ch11/Area Scan (61x111x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 0.167 W/kg

Ch11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.692 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.061 W/kg

Maximum value of SAR (measured) = 0.175 W/kg

