



SAR EVALUATION REPORT

For

Fujian Morefun Electronic Technology Co., Ltd.

A-602, No.10 Building, HaiXi Innovation Area, High-Tech Zone, Fuzhou, Fujian, China

FCC ID: 2AQRE-H9

Report Type: Original Report		Product Type: H9 GPRS POS Term	inal
Report Number:	RXM180803054-	-20	
Report Date:	2018-12-03		
Reviewed By:	Rocky Xiao RF Engineer	pocky	xiao
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Attestation of Test Results						
	EUT Description	H9 GPRS POS Terminal				
	Tested Model	Н9				
EUT Information	FCC ID	2AQRE-H9				
mormation	Serial Number	18080305421				
	Test Date	2018-10-04				
Μ	ODE	Max. SAR Level(s) I	Reported(W/kg)	Limit (W/kg)		
Close to Body	GSM 850	1g Body SAR	0.30	1.6		
Mode	PCS 1900	1g Body SAR	0.49	1.0		
Handheld Mode	GSM 850	10g Extremity SAR	0.50	4.0		
Hanuneiu Wioue	PCS 1900	10g Extremity SAR	1.33	4.0		
Applicable StandardsFCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devicesIEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement 						
for General Population accordance with the p	KDB 648474 D04 Hand KDB 865664 D01 SAR KDB 865664 D02 RF E KDB 941225 D01 3G S device has been shown to on/Uncontrolled Exposure measurement procedures	lset SAR v01r03 Measurement 100 MHz to 6 xposure Reporting v01r02	GHz v01r04 localized specific abso C FR part 2.1093 and h and RF exposure KDE	has been tested in		

TABLE OF CONTENTS

EUT DESCRIPTION	DOCUMENT REVISION HISTORY	4
REFERENCE, STANDARDS, AND GUIDELINES		
SAR LIMITS	TECHNICAL SPECIFICATION	5
FACILITIES DESCRIPTION OF TEST SYSTEM EQUIPMENT LIST AND CALIBRATION EQUIPMENTS LIST & CALIBRATION INFORMATION SAR MEASUREMENT SYSTEM VERIFICATION LIQUID VERIFICATION SYSTEM ACCURACY VERIFICATION SAR SYSTEM VALIDATION DATA EUT TEST STRATEGY AND METHODOLOGY TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR. CHEEK/TOUCH POSITION EAR/TILT POSITION EAR/TILT POSITION SAR EVALUATION PROCEDURE CONDUCTED OUTPUT POWER MEASUREMENT PROVISION APPLICABLE TEST PROCEDURE CONDUCTED OUTPUT POWER MEASUREMENT PROVISION APPLICABLE TEST PROCEDURE STANDALONE SAR TEST EXCLUSION CONSIDERATIONS MAXIMUM TARGET OUTPUT POWER TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNA DISTANCE TO EDGE SAR MEASUREMENT RESULTS SAR MEASUREMENT RESULTS SAR TEST DATA SAR TEST DATA SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY	REFERENCE, STANDARDS, AND GUIDELINES	6
DESCRIPTION OF TEST SYSTEM EQUIPMENT LIST AND CALIBRATION EQUIPMENTS LIST & CALIBRATION INFORMATION SAR MEASUREMENT SYSTEM VERIFICATION LIQUID VERIFICATION SYSTEM ACCURACY VERIFICATION SAR SYSTEM VALIDATION DATA EUT TEST STRATEGY AND METHODOLOGY TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR. CHEEK/TOUCH POSITION EAR/TILT POSITION EAR/TILT POSITION SAR SYSTEM VALIDATION NO OTHER CONFIGURATIONS. TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS. TEST DISTANCE FOR SAR EVALUATION SAR EVALUATION PROCEDURE CONDUCTED OUTPUT POWER MEASUREMENT PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNA DISTANCE TO EDGE SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT SAR MEASUREMENT VARIABILITY SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR TEST DATA SAR MEASUREMENT UNCERTAINTY APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION P	SAR LIMITS	7
EQUIPMENT LIST AND CALIBRATION EQUIPMENTS LIST & CALIBRATION INFORMATION SAR MEASUREMENT SYSTEM VERIFICATION LIQUID VERIFICATION SYSTEM ACCURACY VERIFICATION SAR SYSTEM VALIDATION DATA. EUT TEST STRATEGY AND METHODOLOGY. TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR CHEEK/TOUCH POSITION EAR/TILT POSITION TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS. TEST DOSTION FOR BODY-WORN AND OTHER CONFIGURATIONS. TEST DISTANCE FOR SAR EVALUATION SAR EVALUATION PROCEDURE. CONDUCTED OUTPUT POWER MEASUREMENT. PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNAS LOCATION: SAR TEST EXCLUSION CONSIDERATIONS RESULT. SAR MEASUREMENT RESULTS. SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT. SAR MEASUREMENT VARIABILITY SAR MEASUREMENT VARIABILITY SAR PLOTS. APPENDIX A MEASUREMENT UNCERTAINTY. APPENDIX B EUT TEST POSITION PHOTOS	FACILITIES	8
Equipments List & Calibration Information	DESCRIPTION OF TEST SYSTEM	9
SAR MEASUREMENT SYSTEM VERIFICATION	EQUIPMENT LIST AND CALIBRATION	14
LIQUID VERIFICATION SYSTEM ACCURACY VERIFICATION SAR SYSTEM VALIDATION DATA EUT TEST STRATEGY AND METHODOLOGY TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR. CHEEK/TOUCH POSITION EAR/TILT POSITION TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS. TEST DISTANCE FOR SAR EVALUATION SAR EVALUATION PROCEDURE. CONDUCTED OUTPUT POWER MEASUREMENT. PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER MEASUREMENT. TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNAS LOCATION: SAR TEST EXCLUSION CONSIDERATIONS SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS: SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS: SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT SAR MEASUREMENT RESULTS. SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR PLOTS. APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS	EQUIPMENTS LIST & CALIBRATION INFORMATION	14
SYSTEM ACCURACY VERIFICATION	SAR MEASUREMENT SYSTEM VERIFICATION	15
SAR SYSTEM VALIDATION DATA		
EUT TEST STRATEGY AND METHODOLOGY		
TEST POSITIONS FOR DEVICE OPERATING NEXT TO A PERSON'S EAR. CHEEK/TOUCH POSITION EAR/TLI POSITION TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS TEST DISTANCE FOR SAR EVALUATION SAR EVALUATION PROCEDURE. CONDUCTED OUTPUT POWER MEASUREMENT. PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNA DISTANCE TO EDGE STANDALONE SAR TEST EXCLUSION CONSIDERATIONS SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS SAR TEST DATA SAR MEASUREMENT RESULTS. SAR MEASUREMENT VARIABILITY SAR PLOTS. APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS		
CHEEK/TOUCH POSITION EAR/TILT POSITION TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS TEST DISTANCE FOR SAR EVALUATION SAR EVALUATION PROCEDURE CONDUCTED OUTPUT POWER MEASUREMENT PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER TEST RESULTS: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNA DISTANCE TO EDGE STANDALONE SAR TEST EXCLUSION CONSIDERATIONS SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT SAR MEASUREMENT RESULTS SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS		
EAR/TILT POSITION TEST POSITIONS FOR BODY-WORN AND OTHER CONFIGURATIONS TEST DISTANCE FOR SAR EVALUATION		
TEST DISTANCE FOR SAR EVALUATION	EAR/TILT POSITION	
SAR EVALUATION PROCEDURE CONDUCTED OUTPUT POWER MEASUREMENT PROVISION APPLICABLE TEST PROCEDURE RADIO CONFIGURATION MAXIMUM TARGET OUTPUT POWER TEST RESULTS STANDALONE SAR TEST EXCLUSION CONSIDERATIONS ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNAS LOCATION: ANTENNA DISTANCE TO EDGE STANDALONE SAR TEST EXCLUSION CONSIDERATIONS: SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT SAR MEASUREMENT RESULTS SAR MEASUREMENT RESULTS SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY		
CONDUCTED OUTPUT POWER MEASUREMENT		
PROVISION APPLICABLE		
Radio Configuration Maximum Target Output Power Test Results: Test Results: STANDALONE SAR TEST EXCLUSION CONSIDERATIONS Antennas Location: Antennas Location: Antenna Distance To Edge Standalone SAR test exclusion considerations: SAR test exclusion for the EUT edge considerations Result SAR measurement results SAR measurement variability SAR PLOTS Antenna Measurement uncertainty Appendix a measurement uncertainty Appendix b Eut test position photos		
MAXIMUM TARGET OUTPUT POWER TEST RESULTS:		
TEST RESULTS:		
ANTENNAS LOCATION: ANTENNA DISTANCE TO EDGE STANDALONE SAR TEST EXCLUSION CONSIDERATIONS: SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT SAR MEASUREMENT RESULTS SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS		
ANTENNA DISTANCE TO EDGE	STANDALONE SAR TEST EXCLUSION CONSIDERATIONS	26
STANDALONE SAR TEST EXCLUSION CONSIDERATIONS: SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT		
SAR TEST EXCLUSION FOR THE EUT EDGE CONSIDERATIONS RESULT		
SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS		
SAR TEST DATA SAR MEASUREMENT VARIABILITY SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS	SAR MEASUREMENT RESULTS	
SAR PLOTS APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS	SAR TEST DATA	
APPENDIX A MEASUREMENT UNCERTAINTY APPENDIX B EUT TEST POSITION PHOTOS	SAR MEASUREMENT VARIABILITY	
APPENDIX B EUT TEST POSITION PHOTOS	SAR PLOTS	
	APPENDIX A MEASUREMENT UNCERTAINTY	
APPENDIX C CALIBRATION CERTIFICATES	APPENDIX B EUT TEST POSITION PHOTOS	
	APPENDIX C CALIBRATION CERTIFICATES	

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	RXM180803054-20	Original Report	2018-12-03

EUT DESCRIPTION

This report has been prepared on behalf of *Fujian Morefun Electronic Technology Co., Ltd.* and their product *H9 GPRS POS Terminal*, Model: *H9*, FCC ID: *2AQRE-H9* or the EUT (Equipment under Test) as referred to in the rest of this report.

*All measurement and test data in this report was gathered from production sample serial number: 18080305421 (Assigned by BACL). The EUT supplied by the applicant was received on 2018-08-09.

Technical Specification

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
DTM Type:	Class B
Multi-slot Class:	GPRS(Class 12)
Body-Worn Accessories:	None
Operation Mode :	GPRS Data
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX)
Conducted RF Power:	GSM 850 : 31.56 dBm PCS 1900: 28.52 dBm
Power Source:	7.4 VDC Rechargeable Battery
Normal Operation:	Body Supported and Handheld

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Limits

	SAR (W/kg)		
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)	
Spatial Average (averaged over the whole body)	0.08	0.4	
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0	
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0	

CE Limit

	SAR (W/kg)		
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure	(Occupational / Controlled Exposure	
	Environment)	Environment)	
Spatial Average (averaged over the whole body)	0.08	0.4	
Spatial Peak (averaged over any 10 g of tissue)	2.0	10	
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0	

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 4.0W/kg for 10g Extremity SAR and 1.6W/kg for 1g SAR applied to the EUT.

FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

The test sites and measurement facilities used to collect data are located at:

SAR Lab 1	SAR Lab 2
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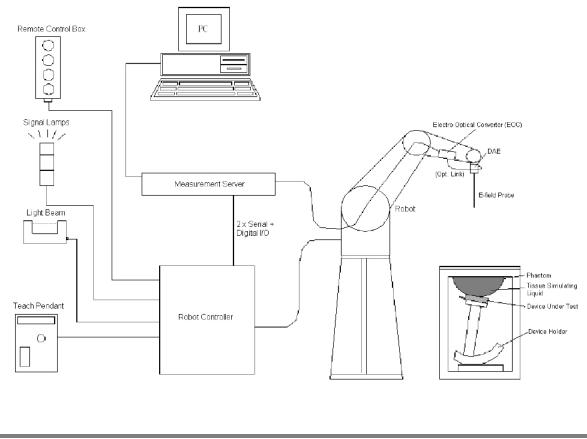
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



Bay Area Compliance Laboratories Corp. (Dongguan)

- 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 application, 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 Win7 professional operating system and the DASY52 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.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical



processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	\pm 0.3 dB in TSL (rotation around probe axis) \pm 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7441 Calibrated: 2017/11/2

Calibration Frequency	Frequency	Range(MHz)	С	onversion Fact	or
Point(MHz)	From	То	X	Y	Z
750 Head	650	850	9.98	9.98	9.98
750 Body	650	850	9.95	9.95	9.95
900 Head	850	1000	9.74	9.74	9.74
900 Body	850	1000	9.8	9.8	9.8
1750 Head	1650	1850	8.22	8.22	8.22
1750 Body	1650	1850	8.04	8.04	8.04
1900 Head	1850	2000	7.9	7.9	7.9
1900 Body	1850	2000	7.79	7.79	7.79
2450 Head	2350	2550	7.34	7.34	7.34
2450 Body	2350	2550	7.4	7.4	7.4
2600 Head	2550	2700	7.01	7.01	7.01
2600 Body	2550	2700	7.1	7.1	7.1
3700 Head	3600	3800	6.71	6.71	6.71
3700 Body	3600	3800	6.27	6.27	6.27
5200 Head	5100	5250	5.94	5.94	5.94
5200 Body	5100	5250	5.22	5.22	5.22
5300 Head	5250	5410	5.65	5.65	5.65
5300 Body	5250	5410	4.73	4.73	4.73
5600 Head	5490	5700	5.12	5.12	5.12
5600 Body	5490	5700	4.33	4.33	4.33
5800 Head	5700	5900	5.15	5.15	5.15
5800 Body	5700	5900	4.35	4.35	4.35

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas:

- _Left Head
- _ Right Head
- _ Flat phantom

The phantom table for the DASY systems based on the robots have the size of $100 \times 50 \times 85$ cm (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the



standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)

A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m^3 is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Recommended Tissue Dielectric Parameters for Head and Body

Frequency	Head Tissue		Body	Tissue
(MHz)	εr	O' (S/m)	εr	O' (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

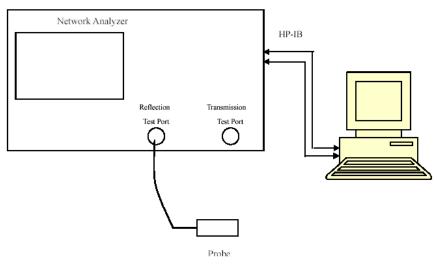
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.8	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE3	471	2017/10/23	2018/10/22
E-Field Probe	EX3DV4	7441	2017/11/2	2018/11/1
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Twin SAM	Twin SAM V5.0	1874	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2016/11/8	2019/11/7
Dipole, 1900 MHz	D1900V2	543	2016/10/25	2019/10/24
Simulated Tissue 750 MHz Head	ТЅ-750-Н	1711075001	Each Time	/
Simulated Tissue 750 MHz Body	ТЅ-750-В	1711075002	Each Time	/
Simulated Tissue 1900 MHz Head	ТЅ-1900-Н	1703190001	Each Time	/
Simulated Tissue 1900 MHz Body	ТЅ-1900-В	1703190002	Each Time	/
Network Analyzer	8753C	3033A02857	2018/8/3	2019/8/3
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
ESG Series Signal Generator	E4422B	MY41000355	2017/12/14	2018/12/14
Power Meter	EPM-441A	GB37481494	2017/12/11	2018/12/11
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441490	488Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
R&S, universal Radio Communication Tester	CMU200	110 822	2017/12/14	2018/12/14
Wireless communication tester	E5515C	MY48367501	2017/12/11	2018/12/11

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency	Liquid Tune	Liquid Liquid Type		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	8r	0 (S/m)	٤ _r	0 (S/m)	$\Delta \epsilon_r$	ΔƠ (S/m)	(%)
750	Simulated Tissue 750 MHz Body	57.293	0.943	55.53	0.96	3.17	-1.77	±5
824.2	Simulated Tissue 750 MHz Body	57.226	0.957	55.24	0.97	3.6	-1.34	±5
836.6	Simulated Tissue 750 MHz Body	56.889	0.959	55.2	0.97	3.06	-1.13	±5
848.8	Simulated Tissue 750 MHz Body	56.749	0.967	55.16	0.99	2.88	-2.32	±5

*Liquid Verification above was performed on 2018/10/04.

Frequency	Liquid Tuno	Liq Parar		Target	t Value	-	elta ⁄o)	Tolerance
(MHz)	Liquid Type	٤r	Ø	٤ _r	Ø	Δε _r	ΔO	(%)
		-	(S/m)	-	(S/m)	•	(S/m)	
1850.2	Simulated Tissue 1900 MHz Body	54.575	1.46	53.3	1.52	2.39	-3.95	±5
1880	Simulated Tissue 1900 MHz Body	54.211	1.494	53.3	1.52	1.71	-1.71	±5
1900	Simulated Tissue 1900 MHz Body	54.086	1.514	53.3	1.52	1.47	-0.39	±5
1909.8	Simulated Tissue 1900 MHz Body	54.025	1.516	53.3	1.52	1.36	-0.26	±5

*Liquid Verification above was performed on 2018/10/04.

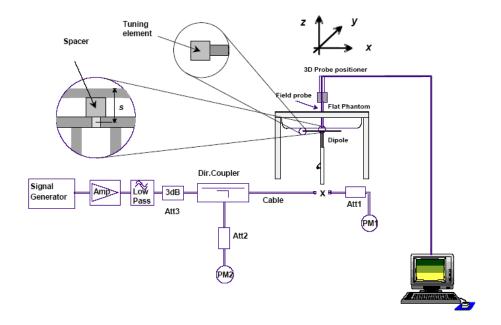
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the System Verification Setup Block Diagram is given by the following:

- a) $s = 15 \text{ mm} \pm 0.2 \text{ mm}$ for 300 MHz $\leq f \leq 1 \text{ 000 MHz}$;
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for 1 000 MHz < f \leq 3 000 MHz;
- c) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for 3 000 MHz < f \leq 6 000 MHz.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2018/10/04	750 MHz	750MUz Dodu	100	1g	0.875	8.75	8.58	1.98	±10
2018/10/04	/ 30 101112	750MHz Body	100	10g	0.577	5.77	5.69	1.41	±10
2018/10/04	4 1000 MIL		100	lg	4.29	42.9	41.1	4.38	±10
2018/10/04	1900 MHz	1900MHz Body	100	10g	2.21	22.1	21.7	1.84	±10

*The SAR values above are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Body

DUT: D750V3; Type: 750 MHz; Serial: 1167

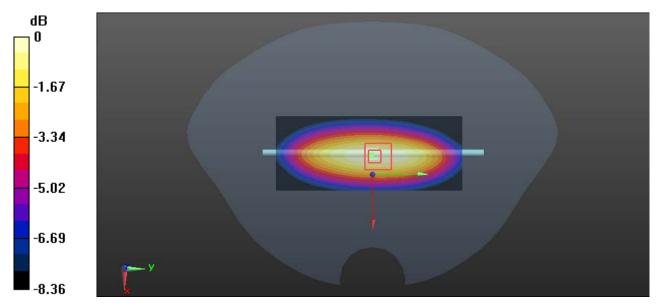
Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; σ = 0.943 S/m; ϵ_r = 57.293; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(9.95, 9.95, 9.95); Calibrated: 2017/11/2;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2017/10/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.18 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 32.12 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.36 W/kg SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.577 W/kg Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

System Performance 1900 MHz Body

DUT: D1900V2; Type: 1900 MHz; Serial: 543

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.514$ S/m; $\varepsilon_r = 54.086$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

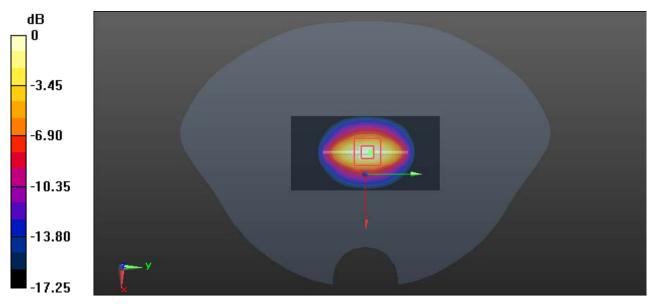
- Probe: EX3DV4 SN7441; ConvF(7.79, 7.79, 7.79); Calibrated: 2017/11/2;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn471; Calibrated: 2017/10/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.8 (8);

Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 6.89 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 55.93 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 7.96 W/kg

SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 6.62 W/kg



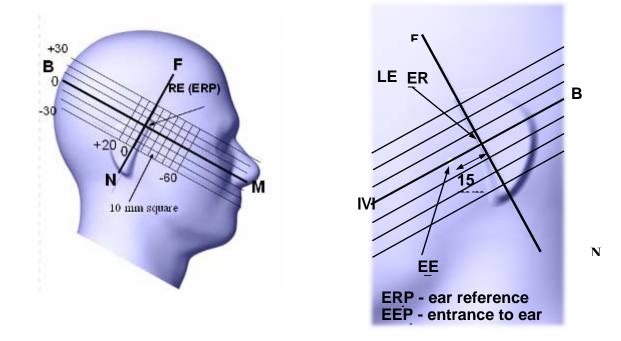
 $^{0 \}text{ dB} = 6.62 \text{ W/kg} = 8.21 \text{ dBW/kg}$

EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¹/₄ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:



Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

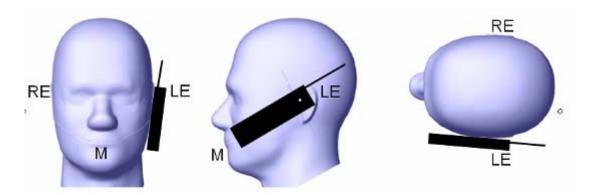
This test position is established:

When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek /Touch Position



Ear/Tilt Position

With the handset aligned in the "Cheek/Touch Position":

1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.

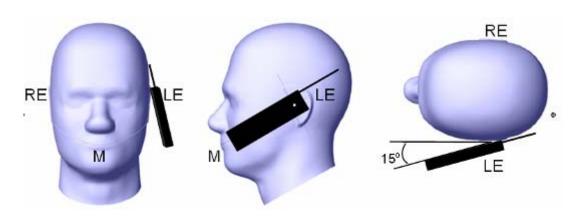
2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Bay Area Compliance Laboratories Corp. (Dongguan)

Report No.: RXM180803054-20

Ear /Tilt 15° Position



Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

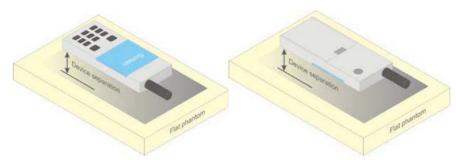


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm.

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points $(10 \times 10 \times 10)$ were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

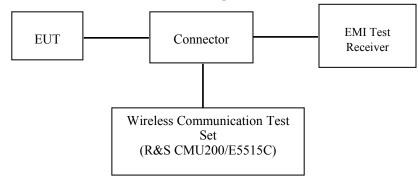
CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through Connector.



GSM

Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GSM/GPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900 Press Connection control to choose the different menus Press RESET > choose all the reset all settings Connection Press Signal Off to turn off the signal and change settings Network Support > GPRS Main Service > Packet Data Service selection > Test Mode A – Auto Slot Config. off MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting > Slot configuration > Uplink/Gamma > 33 dBm for GPRS 850 > 30 dBm for GPRS 1900 BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel Frequency Offset > + 0 Hz Mode > BCCH and TCH BCCH Level > -85 dBm (May need to adjust if link is not stabe) BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel] Channel Type > Off P0 > 4 dBSlot Config >Unchanged (if already set under MS signal) TCH > choose desired test channel Hopping > Off Main Timeslot > 3Network Coding Scheme > CS4 (GPRS) Bit Stream >2E9-1 PSR Bit Stream AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input Connection Press Signal on to turn on the signal and change settings

Maximum Target Output Power

	Max Target Power(dBm)					
Mada/Dand		Channel				
Mode/Band	Low	High				
GPRS 850 1 TX Slot	31.6	31.6	31.6			
GPRS 850 2 TX Slot	31.7	31.7	31.7			
GPRS 850 3 TX Slot	30.2	30.2	30.2			
GPRS 850 4 TX Slot	29.5	29.5	29.5			
GPRS 1900 1 TX Slot	28.6	28.6	28.6			
GPRS 1900 2 TX Slot	28.4	28.4	28.4			
GPRS 1900 3 TX Slot	28.4	28.4	28.4			
GPRS 1900 4 TX Slot	28.4	28.4	28.4			

Test Results:

GPRS:

Band	Channel	Frequency	-	RF Output P	ower (dBm)	
Danu	No.	(MHz)	1 slot	2 slots	3 slots	4 slots
	128	824.2	31.53	31.56	30.13	29.35
GSM 850	190	836.6	31.42	31.45	30.06	29.38
	251	848.8	31.20	31.17	29.76	29.27
	512	1850.2	28.52	28.34	28.30	28.28
PCS 1900	661	1880	28.12	27.92	27.81	28.13
	810	1909.8	28.24	28.00	28.09	27.96

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

Bay Area Compliance Laboratories Corp. (Dongguan) Report No.: RXM180803054-20

Dand	Channel	Frequency	Time	e based avera	ge Power (dB	sm)
Band	No.	(MHz)	1 slot	2 slot	3 slots	4 slots
	128	824.2	22.53	25.56	25.88	26.35
GSM 850	190	836.6	22.42	25.45	25.81	26.38
	251	848.8	22.2	25.17	25.51	26.27
	512	1850.2	19.52	22.34	24.05	25.28
PCS 1900	661	1880	19.12	21.92	23.56	25.13
	810	1909.8	19.24	22	23.84	24.96

The time based average power for GPRS

Note:

1. Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.

2 .For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

Standalone SAR test exclusion considerations

Antennas Location:



Antenna Distance To Edge

Antenna Distance To Edge(mm)						
Antenna	Back	Back Left Right Top Bottom				
GSM Antenna	< 5	68	< 5	12	123	

Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test Exclusion Distance (mm)
GSM 850	848.8	26.5	446.7	55
PCS 1900	1909.8	25.5	354.8	66

Note: The maximum time based average power is used for calculation.

SAR test exclusion for the EUT edge considerations Result

Mode	Back	Left	Right	Тор	Bottom
GSM 850	Required	Exclusion	Required	Required	Exclusion
PCS 1900	Required	Exclusion	Required	Required	Exclusion

Note:

Required: The distance is less than **Test Exclusion Distance**, the SAR test is required.

Exclusion: The distance is large than Test Exclusion Distance, SAR test is not required.

SAR test exclusion for the EUT edge considerations detail:

Distance< 50mm(To Edges)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

5. The Time based average Power is used for calculation

Distance> 50mm(To Edges)

At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following:

a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) \cdot (f(MHz)/150)] mW, at 100 MHz to 1500 MHz

b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	21.3 - 22.2 °C
Relative Humidity:	47 %
ATM Pressure:	100.4 kPa
Test Date:	2018/10/04

Testing was performed by Brave Lu, Jayce Chen.

Bay Area Compliance Laboratories Corp. (Dongguan)

GSM 850:

Operation Mode: Body Supported

EUT Position	Frequency	Test	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
Body Back (0mm)	824.2	GPRS	/	/	/	/	/	/	
	836.6	GPRS	29.38	29.5	1.028	0.289	0.30	1#	
	848.8	GPRS	/	/	/	/	/	/	

Operation Mode: Handheld

EUT	Frequency	Test	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
Handheld Right (0mm)	824.2	GPRS	/	/	/	/	/	/	
	836.6	GPRS	29.38	29.5	1.028	0.491	0.50	2#	
	848.8	GPRS	/	/	/	/	/	/	
	824.2	GPRS	/	/	/	/	/	/	
Handheld Top (0mm)	836.6	GPRS	29.38	29.5	1.028	0.036	0.04	3#	
	848.8	GPRS	/	/	/	/	/	/	

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.

2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

3. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

Bay Area Compliance Laboratories Corp. (Dongguan)

GSM 1900:

Operation Mode: Body Supported

EUT Position	Frequency	requency Test		Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
	(MHz)	Mode	Meas. Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
Body Back (0mm)	1850.2	GPRS	/	/	/	/	/	/	
	1880	GPRS	28.13	28.4	1.064	0.460	0.49	4#	
	1909.8	GPRS	/	/	/	/	/	/	

Operation Mode: Handheld

EUT	Frequency	Test	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
Handheld Right (0mm)	1850.2	GPRS	/	/	/	/	/	/	
	1880	GPRS	28.13	28.4	1.064	1.25	1.33	5#	
	1909.8	GPRS	/	/	/	/	/	/	
	1850.2	GPRS	/	/	/	/	/	/	
Handheld Top (0mm)	1880	GPRS	28.13	28.4	1.064	0.526	0.56	6#	
	1909.8	GPRS	/	/	/	/	/	/	

Note:

1. When the SAR value is less than half of the limit, testing for other channels are optional.

2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

3. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.

4. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

1g Body SAR

SAR probe calibration point	Frequency		EUT Desition	Meas. SA	Largest to	
	Band	Freq.(MHz)	EUT Position	Original	Repeated	Smallest SAR Ratio
/	/	/	/	/	/	/

10g Extremity SAR

SAR probe calibration point	Frequency Freq.(MHz)		EUT Position	Meas. SA	Largest to Smallest	
	Band	rieq.(Miliz)	EOTTOSIUOI	Original Repeated		SAR Ratio
/	/	/	/	/	/	/

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.

3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements.

SAR Plots

Please Refer to the Attachment.

APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)				
Measurement system											
Probe calibration	6.55	Ν	1	1	1	6.6	6.6				
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7				
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0				
Boundary effect	1.0	R	√3	1	1	0.6	0.6				
Linearity	4.7	R	√3	1	1	2.7	2.7				
Detection limits	1.0	R	√3	1	1	0.6	0.6				
Readout electronics	0.3	Ν	1	1	1	0.3	0.3				
Response time	0.0	R	√3	1	1	0.0	0.0				
Integration time	0.0	R	√3	1	1	0.0	0.0				
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6				
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6				
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5				
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9				
Post-processing	2.0	R	√3	1	1	1.2	1.2				
		Test sample	related								
Test sample positioning	2.8	Ν	1	1	1	2.8	2.8				
Device holder uncertainty	6.3	Ν	1	1	1	6.3	6.3				
Drift of output power	5.0	R	√3	1	1	2.9	2.9				
		Phantom and	d set-up								
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3				
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2				
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1				
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4				
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2				
Combined standard uncertainty		RSS				12.2	12.0				
Expanded uncertainty 95 % confidence interval)						24.3	23.9				

Г	1	<u>г</u>				1				
Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)			
Measurement system										
Probe calibration	6.55	Ν	1	1	1	6.6	6.6			
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7			
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0			
Linearity	4.7	R	√3	1	1	2.7	2.7			
Modulation Response	0.0	R	√3	1	1	0.0	0.0			
Detection limits	1.0	R	√3	1	1	0.6	0.6			
Boundary effect	1.0	R	√3	1	1	0.6	0.6			
Readout electronics	0.3	N	1	1	1	0.3	0.3			
Response time	0.0	R	√3	1	1	0.0	0.0			
Integration time	0.0	R	√3	1	1	0.0	0.0			
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6			
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6			
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5			
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9			
Post-processing	2.0	R	√3	1	1	1.2	1.2			
		Test sample	related							
Device holder Uncertainty	6.3	Ν	1	1	1	6.3	6.3			
Test sample positioning	2.8	Ν	1	1	1	2.8	2.8			
Power scaling	4.5	R	√3	1	1	2.6	2.6			
Drift of output power	5.0	R	√3	1	1	2.9	2.9			
		Phantom and	l set-up							
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3			
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	Ν	1	1	0.84	1.1	0.9			
Liquid conductivity (meas.)	2.5	Ν	1	0.64	0.43	1.6	1.1			
Liquid permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2			
Temp. unc Conductivity	1.7	R	√3	0.78	0.71	0.8	0.7			
Temp. unc Permittivity	0.3	R	√3	0.23	0.26	0.0	0.0			
Combined standard uncertainty		RSS				12.2	12.1			
Expanded uncertainty 95 % confidence interval)						24.5	24.2			

Measurement uncertainty evaluation for IEC62209-2 SAR test

APPENDIX B EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

***** END OF REPORT *****