FCC ID: MZV2-5255AH

Date/Time: 12/30/2008 9:54:57 AM

Test Laboratory: Electronics Testing Center, Taiwan

DUT: DECT Phone; Type: PP; Serial: 25255XXX-A

Communication System: US DECT-1900; Frequency: 1928.5 MHz; Duty Cycle: 1:24 Medium parameters used: f=1928.5 MHz; $\sigma=1.48$ mho/m; $\epsilon_r=55.4$; $\rho=1000$ kg/m³

Air temperature: 20 degC; Liquid temperature: 21.2 degC;

Phantom section: Flat Section

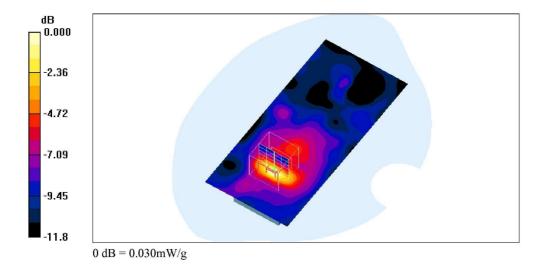
DASY4 Configuration:

- Probe: EX3DV4 SN3555; ConvF(6.7, 6.7, 6.7); Calibrated: 9/19/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn629; Calibrated: 9/23/2008
- Phantom: SAM 12-2; Type: SAM4.0; Serial: TP-1347
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Rear-HIGH/Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.030 mW/g

Rear-HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.75 V/m; Power Drift = -0.177 dB Peak SAR (extrapolated) = 0.038 W/kg

SAR(1 g) = 0.0225 mW/g; SAR(10 g) = 0.012 mW/gMaximum value of SAR (measured) = 0.030 mW/g



FCC ID: MZV2-5255AH

Date/Time: 12/30/2008 10:20:31 AM

Test Laboratory: Electronics Testing Center, Taiwan

DUT: DECT Phone; Type: PP; Serial: 25255XXX-A

Communication System: US DECT-1900; Frequency: 1921.5 MHz; Duty Cycle: 1:24 Medium parameters used: f=1921.5 MHz; $\sigma=1.47$ mho/m; $\epsilon_r=55.4$; $\rho=1000$ kg/m³

Air temperature: 20 degC; Liquid temperature: 21.2 degC;

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 SN3555; ConvF(6.7, 6.7, 6.7); Calibrated: 9/19/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn629; Calibrated: 9/23/2008
- Phantom: SAM 12-2; Type: SAM4.0; Serial: TP-1347
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

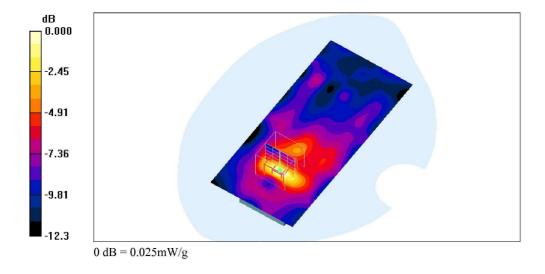
Reference Value = 1.66 V/m; Power Drift = -0.150 dB

Peak SAR (extrapolated) = 0.034 W/kg

SAR(1 g) = 0.0209 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.025 mW/g

Rear-LOW/Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 0.028 mW/g



ANNEX C: DIPOLE CERTIFICATE

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client

ETC (Auden)

Certificate No: D1900V2-5d054-Sep08

Accreditation No.: SCS 108

lient ETC (Auden)			: D1900#2-30034-3epu6
ALIERATION O	ERTHECATE		
Object	D1900V2 - SN: 5	d054	
Calibration procedure(s)	QA CAL-05.v7 Calibration proce	dure for dipole validation kits	
Calibration date:	September 23, 20	008	
Condition of the calibrated item	In Tolerance		
The measurements and the uncer	rtainties with confidence pr	onal standards, which realize the physical unit obability are given on the following pages and y facility: environment temperature (22 \pm 3)°C	d are part of the certificate.
Calibration Equipment used (M&T		, ,	
Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	04-Oct-07 (No. 217-00736)	Oct-08
Power sensor HP 8481A	US37292783	04-Oct-07 (No. 217-00736)	Oct-08
Reference 20 dB Attenuator	SN: 5086 (20g)	01-Jul-08 (No. 217-00864)	Jul-09
Type-N mismatch combination	SN: 5047.2 / 06327	01-Jul-08 (No. 217-00867)	Jul-09
Reference Probe ES3DV2	SN: 3025	28-Apr-08 (No. ES3-3025_Apr08)	Apr-09
DAE4	SN: 601	14-Mar-08 (No. DAE4-601_Mar08)	Mar-09
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power sensor HP 8481A	MY41092317	18-Oct-02 (in house check Oct-07)	In house check: Oct-09
RF generator R&S SMT-06	100005	4-Aug-99 (in house check Oct-07)	In house check: Oct-09
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-07)	In house check: Oct-08
	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	lbL
Approved by:	Katja Pokovic	Technical Manager	JE-KJ
			Issued: September 25, 2008
This calibration certificate shall no	ot be reproduced except in	full without written approval of the laboratory.	

Certificate No: D1900V2-5d054_Sep08

Page 1 of 9

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 108

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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

Certificate No: D1900V2-5d054_Sep08

Page 2 of 9

FCC ID: MZV2-5255AH

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V5.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.7 ± 6 %	1.47 mho/m ± 6 %
Head TSL temperature during test	(21.5 ± 0.2) °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	condition	
SAR measured	250 mW input power	10.4 mW / g
SAR normalized	normalized to 1W	41.6 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	41.0 mW / g ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.41 mW / g
SAR normalized	normalized to 1W	21.6 mW / g
SAR for nominal Head TSL parameters ¹	normalized to 1W	21.6 mW / g ± 16.5 % (k=2)

Certificate No: D1900V2-5d054_Sep08

¹ Correction to nominal TSL parameters according to d), chapter "SAR Sensitivities"