

APPENDIX C: TEST PLOTS

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer:
A3LSMS916U

Serial number:
VIJ2676M

Dimensions:
81 mm x 158 mm x 9 mm

Measurement scenario:
URS (back, AC power, 5.5 kHz)

Hardware setup

DASY version:
cDASY6 Module WPT, 1.2.0.8

Notebook version:
1.2.5

Probe model / serial number:
Single Probe with reference / WP000100

Scan setup

Type:
Static

Resolution:
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:
X: 168.00 mm, Y: 168.00 mm, Z: 14.00 mm

Completed on:
2022/10/12 20:39:03

Measurement results

Maximum H-field:
24.12 mA/m (rms)

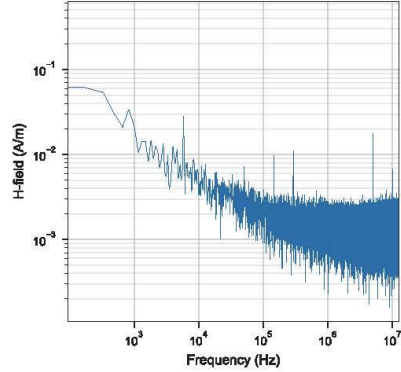
Location of maximum relative to DUT:
X: -7.00 mm, Y: -56.00 mm, Z: 14.00 mm

Maximum H-field (x, y, z):
32.02 mA/m, 18.54 mA/m, 10.20 mA/m

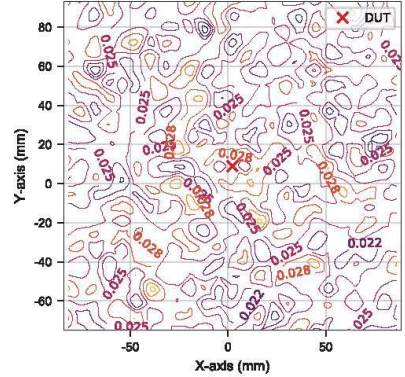
Peak frequency:
5.81 kHz (median)

Distance to -20.0 dB boundary:
NaN

H-field magnitude at maximum



H-field magnitude at lowest plane



Induced quantities in the anatomical model (f = 5.81 kHz, σ = 0.365 S/m, reconstruction error = 82.5%)

		Peak Eind (V/m, rms)		Peak Jind (A/m^2, rms)	psSAR (mW/kg)		
Spacing (mm)	Peak Hinc (A/m, rms)	Cube avg.	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius (mm)
0 ★	0.030	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	95.3

Standard compliance evaluation

Spacing (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
0 ★	8.79	-115	-110	25.3	-88.5	-110	-8.63	-118	-110	15.8	-114	-106	25.3	-114	-106

Standard compliance evaluation (coverage factor-adjusted) (Coefficients w_{EC} = 3.0, w_{GB} = 2.0, w_J = 1.0, w_{SAR1g} = 1.0, w_{SAR10g} = 1.0)

Spacing (mm)	ICNIRP 2020 (dB)		ICNIRP 1998 (dB)		IEEE 2019 (dB)		FCC 2020 (dB)		HC Code 6 (dB)	
	Peak Eind (BR)	psSAR (BR)	Peak Jind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)
0 ★	-99.6	-107	-82.9	-107	-106	-107	-98.9	-103	-98.9	-103

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer:
A3LSMS916U

Serial number:
VIJ2676M

Dimensions:
81 mm x 158 mm x 9 mm

Measurement scenario:
URS (back, AC power, 147 kHz)

Hardware setup

DASY version:
cDASY6 Module WPT, 1.2.0.8

Notebook version:
1.2.5

Probe model / serial number:
Single Probe with reference / WP000100

Scan setup

Type:
Static

Resolution:
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:
X: 168.00 mm, Y: 168.00 mm, Z: 14.00 mm

Completed on:
2022/10/12 23:18:15

Measurement results

Maximum H-field:
11.67 mA/m (rms)

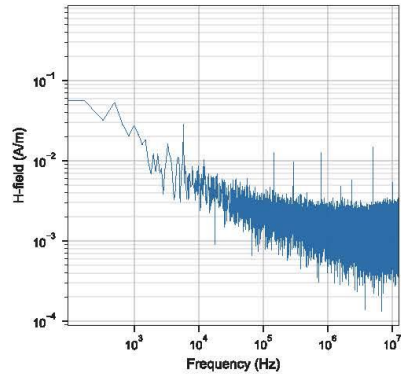
Location of maximum relative to DUT:
X: 70.00 mm, Y: 7.00 mm, Z: 21.00 mm

Maximum H-field (x, y, z):
12.46 mA/m, 12.33 mA/m, 7.05 mA/m

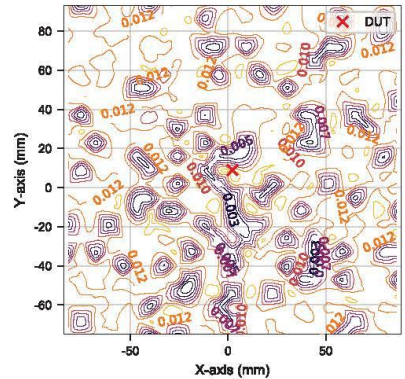
Peak frequency:
147.04 kHz (median)

Distance to -20.0 dB boundary:
49.50 mm

H-field magnitude at maximum



H-field magnitude at lowest plane



Induced quantities in the anatomical model (f = 147.00 kHz, $\sigma = 0.355 \text{ S/m}$, reconstruction error = 125.3%)

		Peak Eind (V/m, rms)		Peak Jind (A/m^2, rms)	psSAR (mW/kg)		
Spacing (mm)	Peak Hinc (A/m, rms)	Cube avg.	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius (mm)
0 ★	0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	94.9

Standard compliance evaluation

Spacing (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
0 ★	0.449	-85.4	-79.3	17.0	-58.1	-79.3	-17.0	-88.2	-79.3	7.33	-84.6	-76.1	17.0	-84.6	-76.1

Standard compliance evaluation (coverage factor-adjusted) (Coefficients $w_{EC} = 3.0$, $w_{IG} = 2.0$, $w_J = 1.0$, $w_{SAR10g} = 1.0$, $w_{SAR10g} = 1.0$)

Spacing (mm)	ICNIRP 2020 (dB)		ICNIRP 1998 (dB)		IEEE 2019 (dB)		FCC 2020 (dB)		HC Code 6 (dB)	
	Peak Eind (BR)	psSAR (BR)	Peak Jind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)
0 ★	-70.3	-76.6	-52.6	-76.6	-76.6	-76.6	-69.5	-73.3	-69.5	-73.3

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer:
A3LSMS916U

Serial number:
VIJ2676M

Dimensions:
81 mm x 158 mm x 9 mm

Measurement scenario:
URS (back, AC power, 790 kHz)

Hardware setup

DASY version:
cDASY6 Module WPT, 1.2.0.8

Notebook version:
1.2.5

Probe model / serial number:
Single Probe with reference / WP000100

Scan setup

Type:
Static

Resolution:
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:
X: 168.00 mm, Y: 168.00 mm, Z: 14.00 mm

Completed on:
2022/10/13 00:47:18

Measurement results

Maximum H-field:
12.65 mA/m (rms)

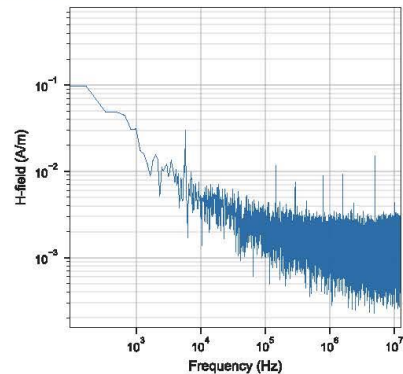
Location of maximum relative to DUT:
X: -77.00 mm, Y: 14.00 mm, Z: 14.00 mm

Maximum H-field (x, y, z):
11.53 mA/m, 13.29 mA/m, 9.12 mA/m

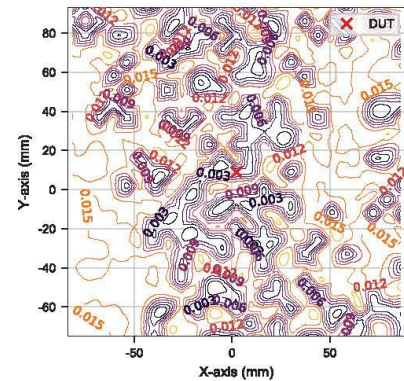
Peak frequency:
791.27 kHz (median)

Distance to -20.0 dB boundary:
9.90 mm

H-field magnitude at maximum



H-field magnitude at lowest plane



Induced quantities in the anatomical model (f = 791.00 kHz, $\sigma = 0.355$ S/m, reconstruction error = 306.1%)

Spacing (mm)	Peak Hinc (A/m, rms)	Peak Eind (V/m, rms)		Peak Jind (A/m^2, rms)	psSAR (mW/kg)		-20 dB radius (mm)
		Cube avg.	Line avg.		1g avg.	10g avg.	
0 ★	0.030	0.002	0.002	< 0.001	< 0.001	< 0.001	93.2

Standard compliance evaluation

Spacing (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
0 ★	5.85	-69.8	-63.2	22.4	-42.5	-63.2	-11.6	-73.1	-63.2	12.9	-69.4	-59.9	22.4	-69.4	-59.9

Standard compliance evaluation (coverage factor-adjusted) (Coefficients $w_{EC}=3.0$, $w_{IG}=2.0$, $w_J=1.0$, $w_{SAR1g}=1.0$, $w_{SAR10g}=1.0$)

Spacing (mm)	ICNIRP 2020 (dB)		ICNIRP 1998 (dB)		IEEE 2019 (dB)		FCC 2020 (dB)		HC Code 6 (dB)	
	Peak Eind (BR)	psSAR (BR)	Peak Jind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)
0 ★	-54.9	-60.5	-37.1	-60.5	-61.6	-60.5	-54.5	-57.2	-54.5	-57.2

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer:
A3LSMS916U

Serial number:
VIJ2676M

Dimensions:
81 mm x 158 mm x 9 mm

Measurement scenario:
URS (back, AC power, 4990 kHz)

Hardware setup

DASY version:
cDASY6 Module WPT, 1.2.0.8

Notebook version:
1.2.5

Probe model / serial number:
Single Probe with reference / WP000100

Scan setup

Type:
Static

Resolution:
X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions:
X: 168.00 mm, Y: 168.00 mm, Z: 14.00 mm

Completed on:
2022/10/13 02:16:41

Measurement results

Maximum H-field:
16.14 mA/m (rms)

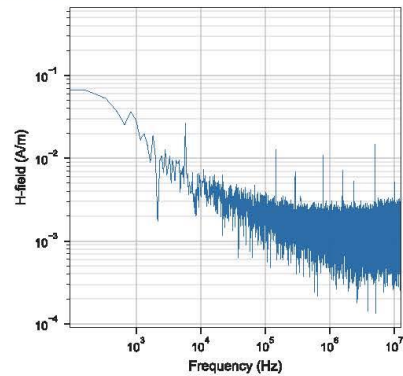
Location of maximum relative to DUT:
X: -56.00 mm, Y: 7.00 mm, Z: 14.00 mm

Maximum H-field (x, y, z):
22.54 mA/m, 5.48 mA/m, 5.18 mA/m

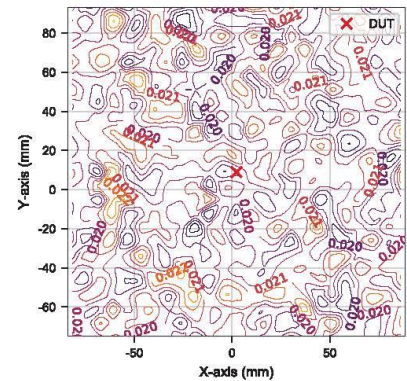
Peak frequency:
4.99 MHz (median)

Distance to -20.0 dB boundary:
NaN

H-field magnitude at maximum



H-field magnitude at lowest plane



Induced quantities in the anatomical model (f = 4.99 MHz, $\sigma = 0.355$ S/m, reconstruction error = 25.6%)

Spacing (mm)	Peak Hinc (A/m, rms)	Peak Eind (V/m, rms)		Line avg.	Peak Jind (A/m^2, rms)		psSAR (mW/kg)		10g avg.	10g avg.	-20 dB radius (mm)
		Cube avg.			Surface avg.		1g avg.				
0 ★	0.018	0.010		0.010	0.003		< 0.001		< 0.001		95.3

Standard compliance evaluation

Spacing (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
0 ★	6.04	-55.6	-48.3	22.6	-28.1	-48.3	-11.4	-58.1	-48.3	13.0	-54.5	-44.7	22.6	-54.5	-44.7

Standard compliance evaluation (coverage factor-adjusted) (Coefficients $w_{EC}=3.0$, $w_{GB}=2.0$, $w_J=1.0$, $w_{SAR10g}=1.0$, $w_{SAR10g}=1.0$)

Spacing (mm)	ICNIRP 2020 (dB)			ICNIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Peak Eind (BR)	psSAR (BR)		Peak Jind (BR)	psSAR (BR)		Peak Eind (BR)	psSAR (BR)		Peak Eind (BR)	psSAR (BR)		Peak Eind (BR)	psSAR (BR)	
0 ★	-40.5	-45.5		-22.5	-45.5		-46.5	-45.5		-39.4	-41.9		-39.4	-41.9	

ELEMENT

DUT: A3LSMS916U; Type: Portable Handset; Serial: VIJ2676M

Communication System: UID:0 - CAB, CW; MAIA: Y; Frequency: 5850.0 MHz

Medium: 5200-5800 Body; Medium parameters used:

f = 5850.0 MHz; cond = 6.11 S/m; perm = 46.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 10/20/2022; Ambient Temp: 22.2⁰C; Tissue Temp: 21.7⁰C

Probe: EX3DV4 - SN7659; ConvF:(4.67,4.67,4.67); Calibrated: 2022-04-20

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1407; Calibrated: 2022-04-13

Phantom: Twin-SAM V5.0; Serial: 1873

Measurement SW: DASY Module SAR V16.2.0.1425

Mode: Unintentional, Back Side, 0 mm

Area Scan (120.0 x 200.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

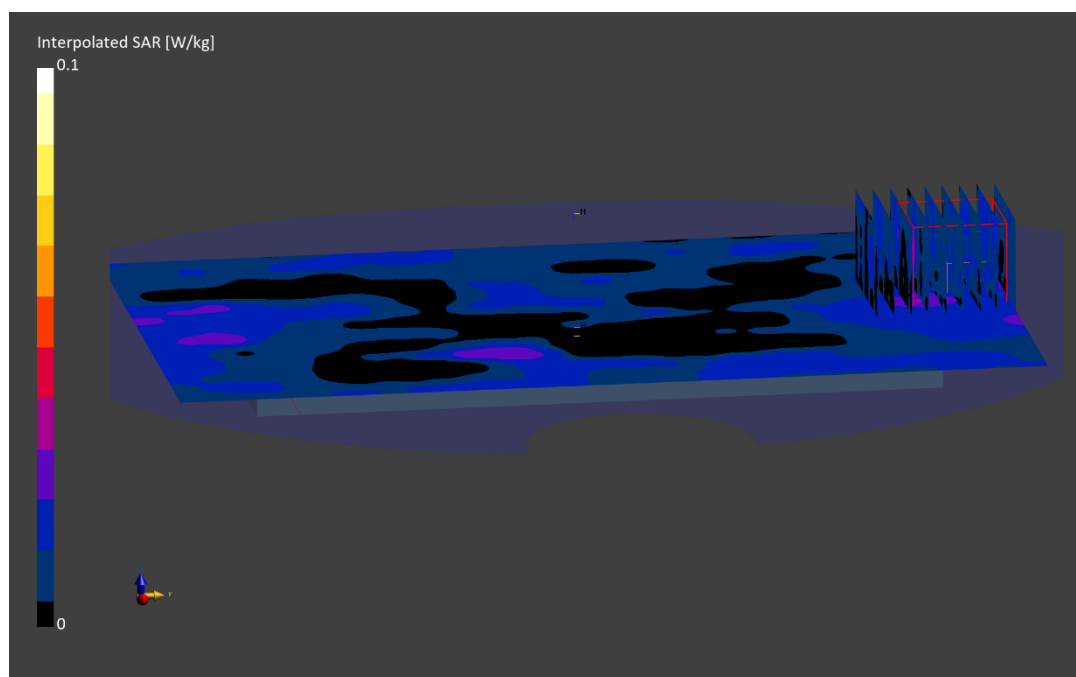
Zoom Scan (22.0 x 22.0 x 22.0): Measurement grid: dx=4.0 mm, dy=4.0 mm, dz=1.4 mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 0.053 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below is 2.4 mm

Ratio of SAR at M2 to SAR at M1 = 74.5 %



ELEMENT

Date: 10/04/2022

Device Under Test Properties

DUT	Serial Number	DUT Type
A3LSMS916U	VIJ2676M	Portable Handset

Exposure Conditions

Phantom Section	Position	Test Distance [mm]	Frequency [MHz]
5G	BACK	2.00	6000

Hardware Setup

Probe, Calibration Date	DAE, Calibration Date
EUmmWV3 – SN9407, 12/13/2021	DAE4ip SN1639, 01/21/2022

Software Setup

Software	Software Version
cDASY6 Module mmWave	3.0.0.841

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120 x 120
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Avg. Area [cm ²]	4.00
pS _{tot} avg [W/m ²]	0.234
pS _n avg [W/m ²]	0.227
E _{peak} [V/m]	13.5

