



Annex A: System Check

Tested Model : N5001L

Report Number:

FCC17040291A

I. RESULTS

<u>TYPE</u>	BAND	PARAMETERS
Validation	CW750	<u>Measurement 1:</u> Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW750	Measurement 2: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW835	Measurement 3: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW835	Measurement 4: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1800	<u>Measurement 5:</u> Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1800	Measurement 6: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1900	Measurement 7: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW1900	Measurement 8: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2450	Measurement 9: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2450	Measurement 10: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2600	Measurement 11: Validation Plane with Dipole device position on Middle Channel in CW mode
Validation	CW2600	Measurement 12: Validation Plane with Dipole device position on Middle Channel in CW mode



BODY

Type: Validation measurement (Complete)

Date of measurement: 19/9/2017

Measurement duration: 11 minutes 41 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>	
<u>ZoomScan</u>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete	
<u>Phantom</u>	Validation plane	
Device Position	<u>Dipole</u>	
<u>Band</u>	<u>CW750</u>	
<u>Channels</u>	Middle	
<u>Signal</u>	CW (Crest factor: 1.0)	

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	53.517799
Relative permittivity (imaginary part)	24.024599
Conductivity (S/m)	1.001025
Variation (%)	0.320000





Maximum location: X=2.00, Y=0.00

SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.609663
SAR 1g (W/Kg)	0.905411





3D screen shot	Hot spot position



HEAD

Type: Validation measurement (Complete)

Date of measurement: 19/9/2017

Measurement duration: 11 minutes 40 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>	
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>	
<u>Phantom</u>	Validation plane	
Device Position	Dipole	
<u>Band</u>	<u>CW750</u>	
<u>Channels</u>	Middle	
<u>Signal</u>	CW (Crest factor: 1.0)	

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative permittivity (real part)	41.350601
Relative permittivity (imaginary part)	21.254601
Conductivity (S/m)	0.885608
Variation (%)	1.030000





Maximum location: X=2.00, Y=0.00

SAR Peak: 1.13 W/kg

SAR 10g (W/Kg)	0.537155
SAR 1g (W/Kg)	0.783648





3D screen shot	Hot spot position



BODY

Type: Validation measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>	
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>	
<u>Phantom</u>	Validation plane	
Device Position	Dipole	
Band	<u>CW835</u>	
<u>Channels</u>	Middle	
<u>Signal</u>	CW (Crest factor: 1.0)	

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	53.927799
Relative permittivity (imaginary part)	21.281300
Conductivity (S/m)	0.987216
Variation (%)	0.120000





Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.44 W/kg

SAR 10g (W/Kg)	0.644746
SAR 1g (W/Kg)	1.014583





3D screen shot	Hot spot position



HEAD

Type: Validation measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 11 minutes 54 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
<u>Band</u>	<u>CW835</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.328999
Relative permittivity (imaginary part)	19.880501
Conductivity (S/m)	0.922234
Variation (%)	-0.070000





Maximum location: X=-1.00, Y=0.00

SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	0.615004
SAR 1g (W/Kg)	0.970049





3D screen shot	Hot spot position



BODY

Type: Validation measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 11 minutes 43 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	52.970200
Relative permittivity (imaginary part)	15.414900
Conductivity (S/m)	1.541490
Variation (%)	-0.080000





Maximum location: X=0.00, Y=0.00

SAR Peak: 6.86 W/kg

SAR 10g (W/Kg)	2.171523
SAR 1g (W/Kg)	4.155761





3D screen shot	Hot spot position



HEAD

Type: Validation measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 11 minutes 41 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
<u>Band</u>	<u>CW1800</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative permittivity (real part)	39.484501
Relative permittivity (imaginary part)	14.358300
Conductivity (S/m)	1.435830
Variation (%)	0.610000





Maximum location: X=0.00, Y=0.00

SAR Peak: 6.95 W/kg

SAR 10g (W/Kg)	2.160484
SAR 1g (W/Kg)	4.198096





3D screen shot	Hot spot position

BODY

Type: Validation measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 10 minutes 57 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
Band	<u>CW1900</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	53.365299
Relative permittivity (imaginary part)	14.757600
Conductivity (S/m)	1.557747
Variation (%)	-0.450000

Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.26 W/kg

SAR 10g (W/Kg)	2.093533
SAR 1g (W/Kg)	3.932904

3D screen shot	Hot spot position

HEAD

Type: Validation measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 11 minutes 6 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
Band	<u>CW1900</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.976398
Relative permittivity (imaginary part)	13.386300
Conductivity (S/m)	1.412998
Variation (%)	-0.040000

Maximum location: X=-1.00, Y=-1.00

SAR Peak: 6.48 W/kg

SAR 10g (W/Kg)	2.107104
SAR 1g (W/Kg)	3.997625

3D screen shot	Hot spot position

BODY

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 9 minutes 46 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
Band	<u>CW2450</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.735699
Relative permittivity (imaginary part)	14.017300
Conductivity (S/m)	1.907910
Variation (%)	0.390000

Maximum location: X=-5.00, Y=-1.00

SAR Peak: 10.96 W/kg

SAR 10g (W/Kg)	2.633453
SAR 1g (W/Kg)	5.988343

3D screen shot	Hot spot position

HEAD

Type: Validation measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 9 minutes 46 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
Band	<u>CW2450</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.235699
Relative permittivity (imaginary part)	12.917300
Conductivity (S/m)	1.758188
Variation (%)	2.820000

Maximum location: X=-5.00, Y=2.00

SAR Peak: 9.92 W/kg

SAR 10g (W/Kg)	2.452895
SAR 1g (W/Kg)	5.393069

3D screen shot	Hot spot position

BODY

Type: Validation measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 10 minutes 13 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>	
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>	
<u>Phantom</u>	Validation plane	
Device Position	<u>Dipole</u>	
Band	<u>CW2600</u>	
<u>Channels</u>	Middle	
<u>Signal</u>	CW (Crest factor: 1.0)	

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	52.007900
Relative permittivity (imaginary part)	14.458500
Conductivity (S/m)	2.088450
Variation (%)	-0.220000

Maximum location: X=-2.00, Y=0.00

SAR Peak: 10.74 W/kg

SAR 10g (W/Kg)	2.559674
SAR 1g (W/Kg)	5.786435

3D screen shot	Hot spot position

HEAD

Type: Validation measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 10 minutes 12 seconds

A. Experimental conditions.

<u>Area Scan</u>	<u>dx=8mm dy=8mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete</u>
<u>Phantom</u>	Validation plane
Device Position	Dipole
<u>Band</u>	<u>CW2600</u>
<u>Channels</u>	Middle
<u>Signal</u>	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.979599
Relative permittivity (imaginary part)	13.989700
Conductivity (S/m)	2.020734
Variation (%)	0.250000

Maximum location: X=-2.00, Y=0.00

SAR Peak: 9.73 W/kg

SAR 10g (W/Kg)	2.342963
SAR 1g (W/Kg)	5.318259

3D screen shot	Hot spot position