

# Measurement Report for Band n53: 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, CHEEK

## Exposure Conditions

Band	Band n53	TSL Permittivity	37.9
Frequency [MHz]   Channel Number	2489.200   497840	TSL Conductivity [S/m]	1.86
Group   UID	5G NR FR1 TDD   10898-AAC	Phantom Section   TSL	RightHead   HSL
Conversion Factor	7.04	Test Distance [mm]	0.00

## Hardware Setup

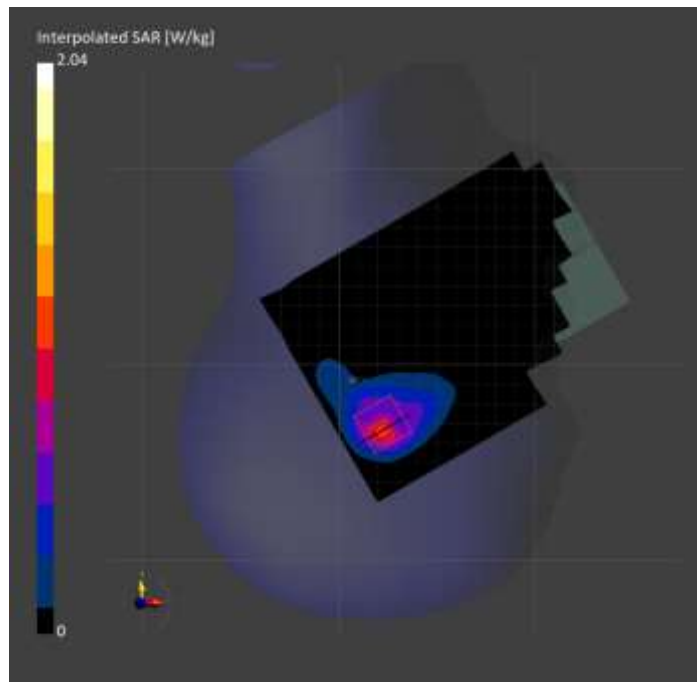
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		73.4
Dist 3dB Peak [mm]		6.5

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.785	<b>0.812</b>
psSAR10g [W/Kg]	0.370	<b>0.355</b>
Power Drift [dB]	N/A	-0.06



# Measurement Report for Band 30: LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band 30	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2310.000   27710	TSL Conductivity [S/m]	1.66
Group   UID	LTE-FDD   10154-CAH	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.31	Test Distance [mm]	5.00

## Hardware Setup

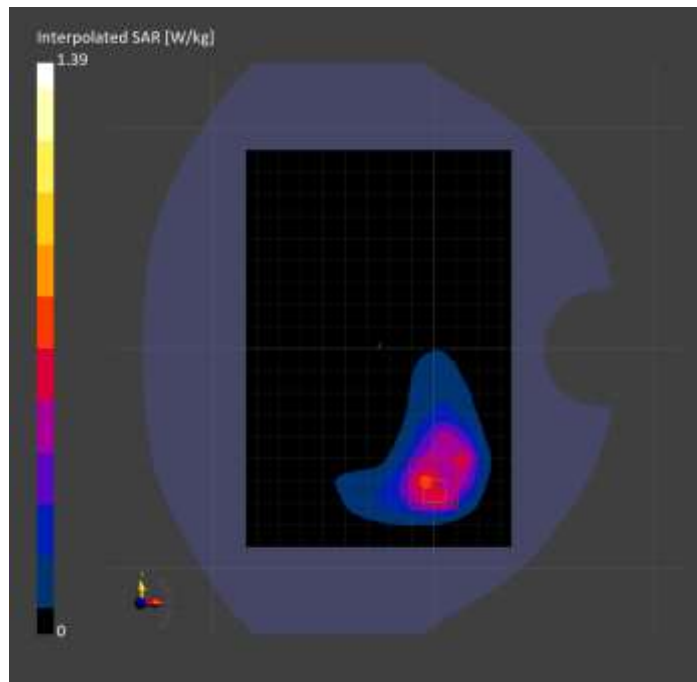
Probe   Calibration Date	EX3DV4 - SN7806   2023-04-04	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1784   2023-04-03	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		8.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.559	<b>0.590</b>
psSAR10g [W/Kg]	0.297	<b>0.265</b>
Power Drift [dB]	N/A	-0.06



# Measurement Report for Band 48: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, CHEEK

## Exposure Conditions

Band	Band 48	TSL Permittivity	38.8
Frequency [MHz]   Channel Number	3560.000   55340	TSL Conductivity [S/m]	2.86
Group   UID	LTE-TDD   10151-CAH	Phantom Section   TSL	RightHead   HSL
Conversion Factor	6.78	Test Distance [mm]	0.00

## Hardware Setup

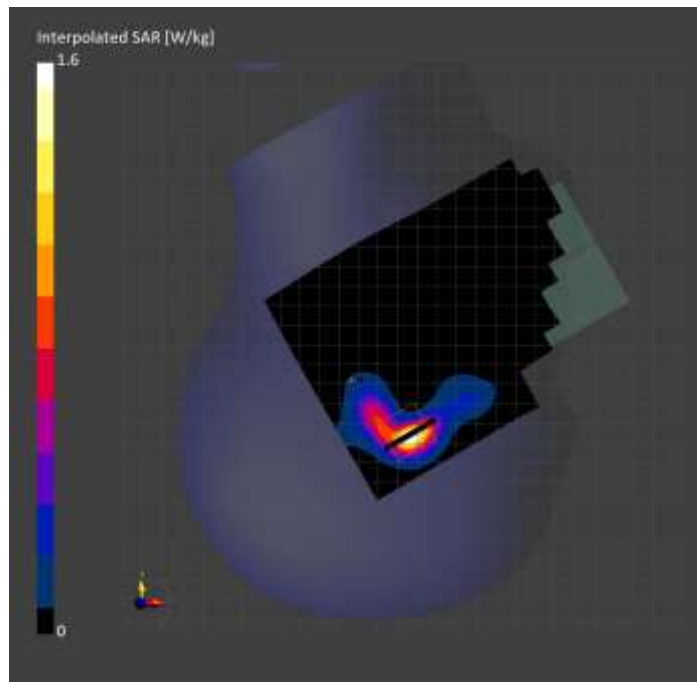
Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		71.5
Dist 3dB Peak [mm]		5.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.507	<b>0.522</b>
psSAR10g [W/Kg]	0.180	<b>0.178</b>
Power Drift [dB]	N/A	0.02



# Measurement Report for WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), EDGE RIGHT

## Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	38.0
Frequency [MHz]   Channel Number	2462.000   11	TSL Conductivity [S/m]	1.84
Group   UID	WLAN   10012-CAB	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

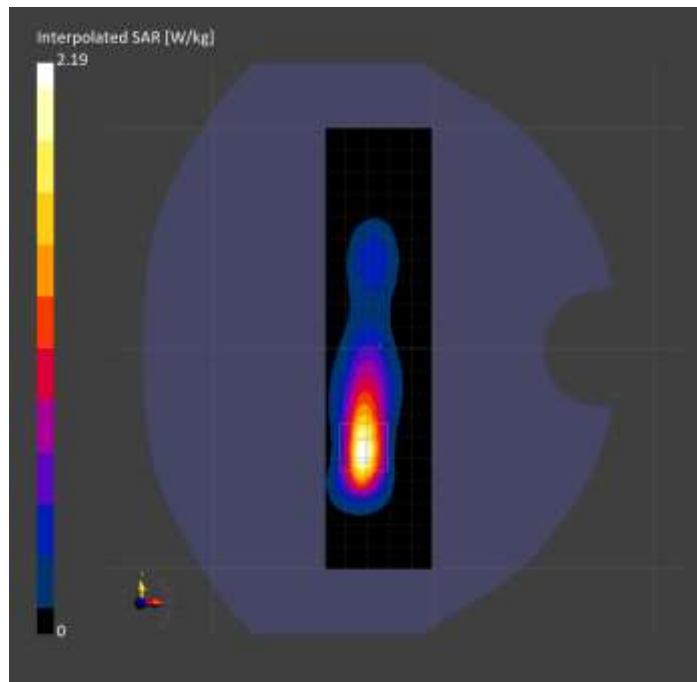
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		74.8
Dist 3dB Peak [mm]		6.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.887	<b>0.897</b>
psSAR10g [W/Kg]	0.379	<b>0.372</b>
Power Drift [dB]	N/A	0.02



# Measurement Report for WLAN 5GHz: IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), BACK

## Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	34.8
Frequency [MHz]   Channel Number	5775.000   155	TSL Conductivity [S/m]	5.05
Group   UID	WLAN   10544-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	4.69	Test Distance [mm]	5.00

## Hardware Setup

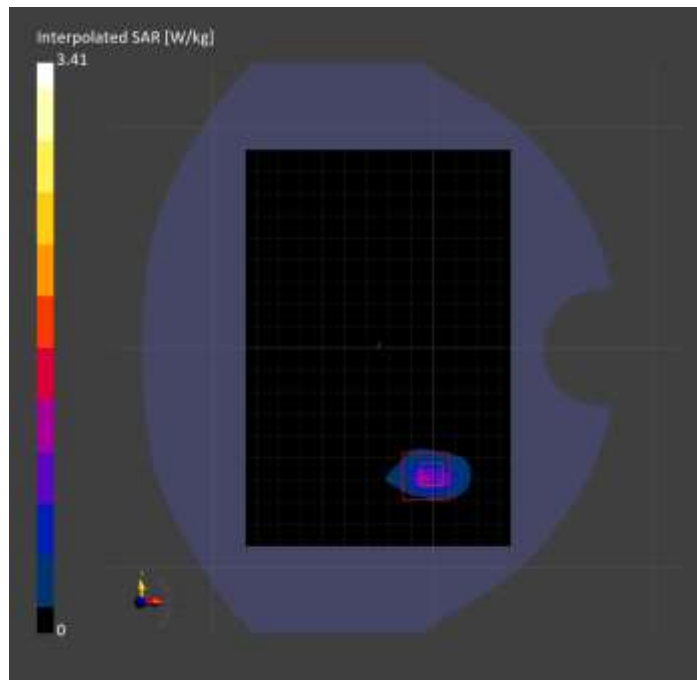
Probe   Calibration Date	EX3DV4 - SN7806   2023-04-04	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1784   2023-04-03	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		62.3
Dist 3dB Peak [mm]		4.4

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0878	<b>0.949</b>
psSAR10g [W/Kg]	0.246	<b>0.256</b>
Power Drift [dB]	N/A	0.09



# Measurement Report for ISM 2.4 GHz Band: IEEE 802.15.1 Bluetooth (GFSK, DH5), BACK

## Exposure Conditions

Band	ISM 2.4 GHz Band	TSL Permittivity	38.0
Frequency [MHz]   Channel Number	2441.000   39	TSL Conductivity [S/m]	1.82
Group   UID	Bluetooth   10032-CAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

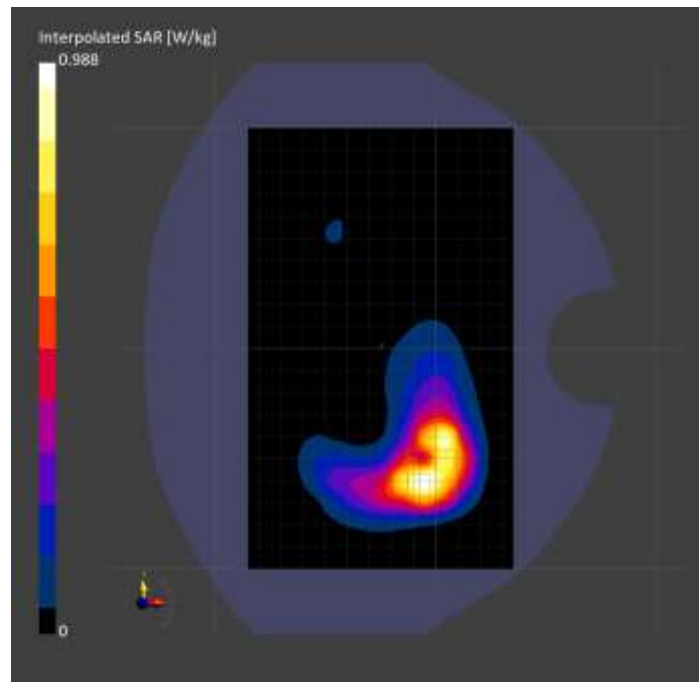
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		7.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.371	<b>0.393</b>
psSAR10g [W/Kg]	0.187	<b>0.164</b>
Power Drift [dB]	N/A	-0.03



# Measurement Report for NFC: EDGE TOP

## Exposure Conditions

Band	Custom Band	TSL Permittivity	57.2
Frequency [MHz]   Channel Number	13.600   13600	TSL Conductivity [S/m]	0.727
Group   UID	CW   0--	Phantom Section   TSL	Flat   HSL
Conversion Factor	19.03	Test Distance [mm]	0.00

## Hardware Setup

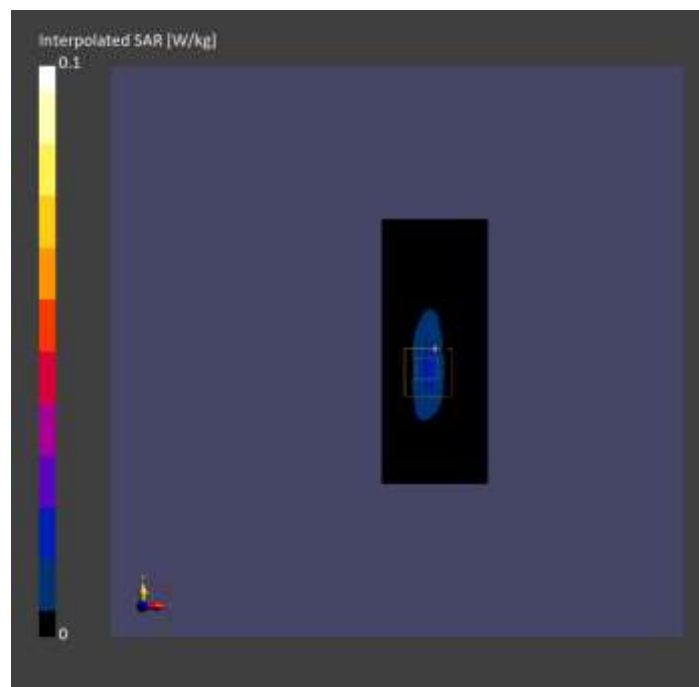
Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	ELI V8.0 (20deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL4-250V3
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		59.1
Dist 3dB Peak [mm]		4.8

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.016	<b>0.016</b>
psSAR10g [W/Kg]	0.009	<b>0.005</b>
Power Drift [dB]	N/A	0.00



# Measurement Report for Band 30: LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, BACK

## Exposure Conditions

Band	Band 30	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2310.000   27710	TSL Conductivity [S/m]	1.66
Group   UID	LTE-FDD   10154-CAH	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.31	Test Distance [mm]	5.00

## Hardware Setup

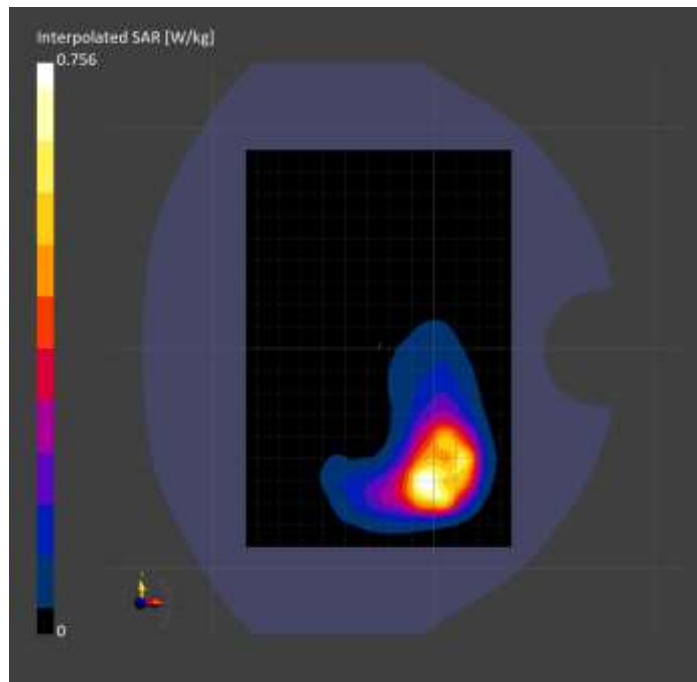
Probe   Calibration Date	EX3DV4 - SN7806   2023-04-04	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1784   2023-04-03	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		74.8
Dist 3dB Peak [mm]		8.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.576	<b>0.599</b>
psSAR10g [W/Kg]	0.301	<b>0.267</b>
Power Drift [dB]	N/A	-0.04





# Measurement Report for Band 48: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RBPosition:Mid AntennaCfg:SISO, CHEEK

## Exposure Conditions

Band	Band 48	TSL Permittivity	38.8
Frequency [MHz]   Channel Number	3560.000   55340	TSL Conductivity [S/m]	2.86
Group   UID	LTE-TDD   10151-CAH	Phantom Section   TSL	RightHead   HSL
Conversion Factor	6.78	Test Distance [mm]	0.00

## Hardware Setup

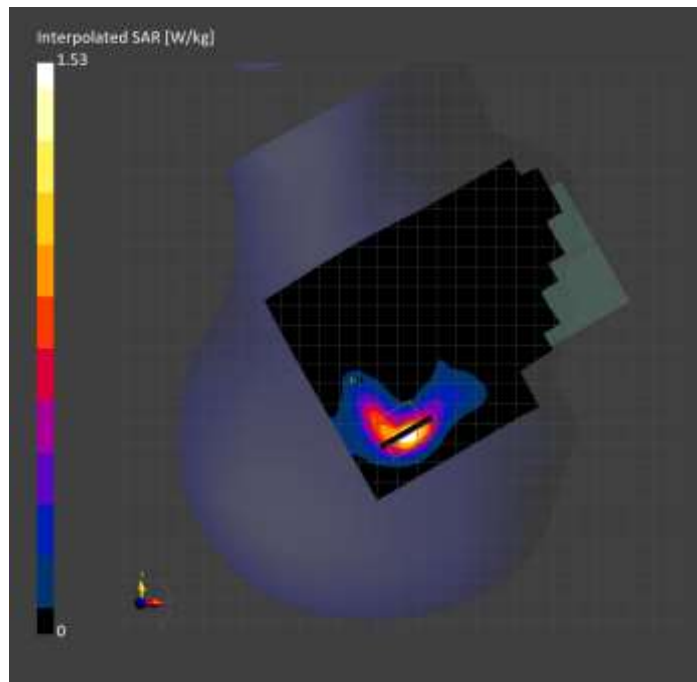
Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		72.3
Dist 3dB Peak [mm]		6.1

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.494	<b>0.506</b>
psSAR10g [W/Kg]	0.189	<b>0.188</b>
Power Drift [dB]	N/A	0.02



# Measurement Report for WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), EDGE RIGHT

## Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2462.000   11	TSL Conductivity [S/m]	1.86
Group   UID	WLAN   10012-CAB	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

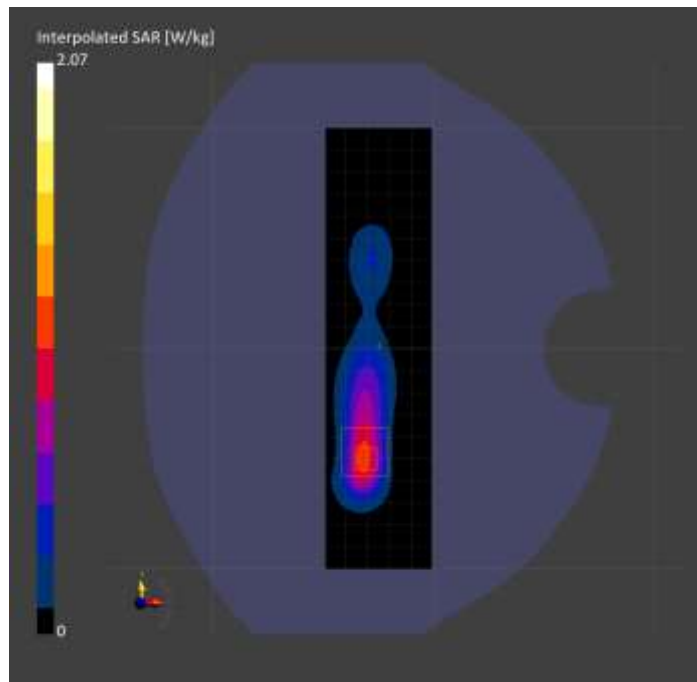
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		77.1
Dist 3dB Peak [mm]		7.0

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.862	<b>0.880</b>
psSAR10g [W/Kg]	0.374	<b>0.370</b>
Power Drift [dB]	N/A	0.02



# Measurement Report for WLAN 5GHz: IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), BACK

## Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	34.8
Frequency [MHz]   Channel Number	5775.000   155	TSL Conductivity [S/m]	5.05
Group   UID	WLAN   10544-AAD	Phantom Section   TSL	Flat   HSL
Conversion Factor	4.69	Test Distance [mm]	5.00

## Hardware Setup

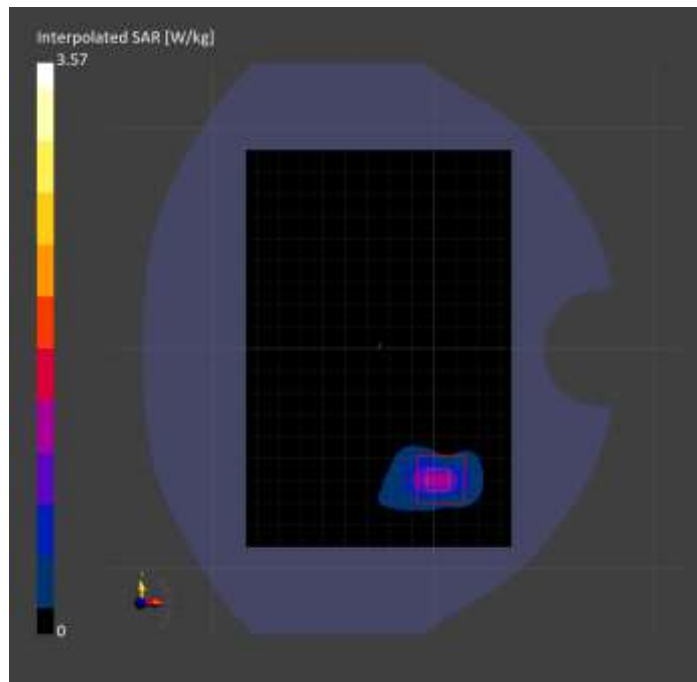
Probe   Calibration Date	EX3DV4 - SN7806   2023-04-04	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1784   2023-04-03	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		7.2

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.938	<b>0.944</b>
psSAR10g [W/Kg]	0.316	<b>0.307</b>
Power Drift [dB]	N/A	-0.11



# Measurement Report for ISM 2.4 GHz Band: IEEE 802.15.1 Bluetooth (GFSK, DH5), BACK

## Exposure Conditions

Band	ISM 2.4 GHz Band	TSL Permittivity	38.0
Frequency [MHz]   Channel Number	2441.000   39	TSL Conductivity [S/m]	1.82
Group   UID	Bluetooth   10032-CAA	Phantom Section   TSL	Flat   HSL
Conversion Factor	7.04	Test Distance [mm]	5.00

## Hardware Setup

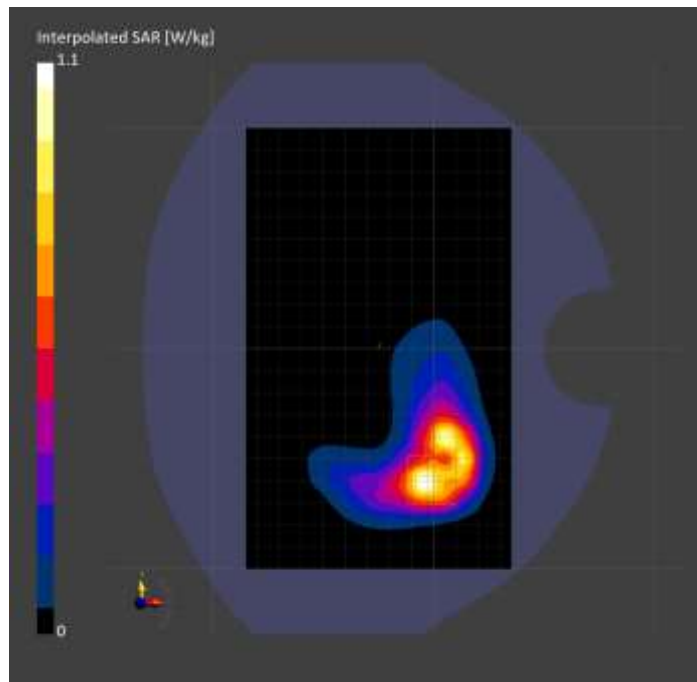
Probe   Calibration Date	EX3DV4 - SN7807   2023-04-11	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		74.7
Dist 3dB Peak [mm]		6.8

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.432	<b>0.441</b>
psSAR10g [W/Kg]	0.210	<b>0.185</b>
Power Drift [dB]	N/A	-0.02



# Measurement Report for NFC: EDGE TOP

## Exposure Conditions

Band	Custom Band	TSL Permittivity	57.2
Frequency [MHz]   Channel Number	13.600   13600	TSL Conductivity [S/m]	0.727
Group   UID	CW   0--	Phantom Section   TSL	Flat   HSL
Conversion Factor	19.03	Test Distance [mm]	0.00

## Hardware Setup

Probe   Calibration Date	EX3DV4 - SN3989   2023-01-26	Phantom	ELI V8.0 (20deg probe tilt)
DAE   Calibration Date	DAE4 Sn1257   2022-09-20	TSL Type	HBBL4-250V3
Software Version	16.2.4.2524		

## Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		61.3
Dist 3dB Peak [mm]		4.8

## Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.016	<b>0.015</b>
psSAR10g [W/Kg]	0.009	<b>0.005</b>
Power Drift [dB]	N/A	-0.05

