

PCS 1900: GPRS-FDD (TDMA, GMSK, TN 0-1), CHEEK

Exposure Conditions

Band	PCS 1900	TSL Permittivity	37.9
Frequency [MHz]   Channel Number	1880.000   661	TSL Conductivity [S/m]	1.33
Group   UID	GSM   10024-DAC	Phantom Section   TSL	RightHead   HSL
Conversion Factor	8.26	Test Distance [mm]	0.00

Hardware Setup

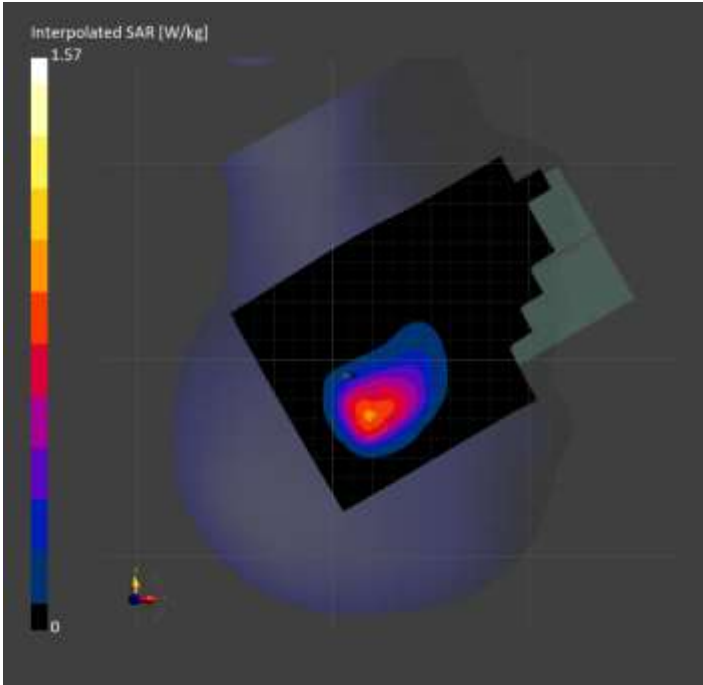
Probe   Calibration Date	EX3DV4 - SN7335   2024-01-09	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2024-05-02	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	15.0 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 [%]		72.2
Dist 3dB Peak [mm]		7.6
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	1.58, 20.2, -333.8, -169.2

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.745	0.649
psSAR10g [W/Kg]	0.429	0.385
Power Drift [dB]	-0.04	-0.03



Band 4: UMTS-FDD (WCDMA), CHEEK

Exposure Conditions

Band	Band 4	TSL Permittivity	38.2
Frequency [MHz]   Channel Number	1712.400   1312	TSL Conductivity [S/m]	1.23
Group   UID	WCDMA   10011-CAC	Phantom Section   TSL	RightHead   HSL
Conversion Factor	8.43	Test Distance [mm]	0.00

Hardware Setup

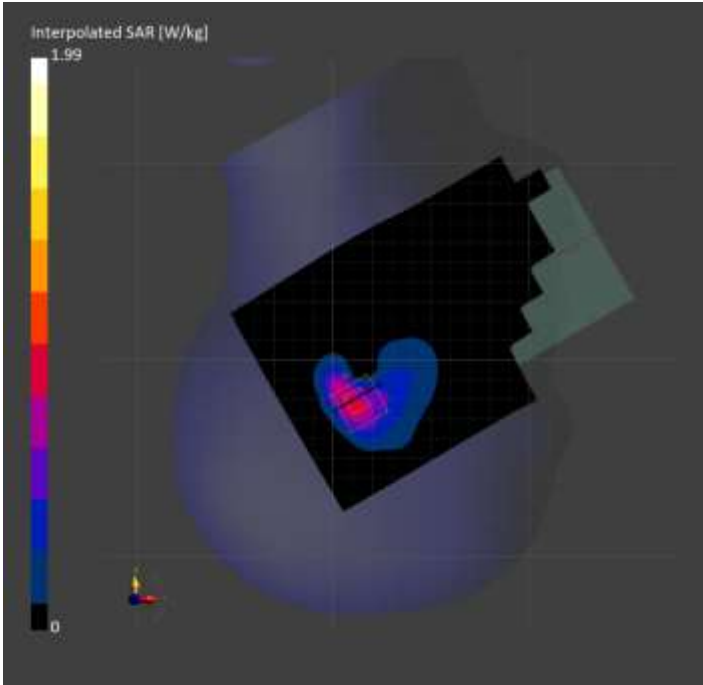
Probe   Calibration Date	EX3DV4 - SN7335   2024-01-09	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1799   2024-05-02	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 31.2
Grid Steps [mm]	15.0 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 [%]		76.0
Dist 3dB Peak [mm]		6.0
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	1.99, 11.7, -320.8, -169.0

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.732	0.910
psSAR10g [W/Kg]	0.378	0.441
Power Drift [dB]	-0.00	-0.04



Band 48: LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)

RBPosition:High AntennaCfg:SISO, CHEEK

Exposure Conditions

Band	Band 48	TSL Permittivity	39.1
Frequency [MHz]   Channel Number	3560.000   55340	TSL Conductivity [S/m]	2.77
Group   UID	LTE-TDD   10494-AAG	Phantom Section   TSL	LeftHead   HSL
Conversion Factor	6.86	Test Distance [mm]	0.00

Hardware Setup

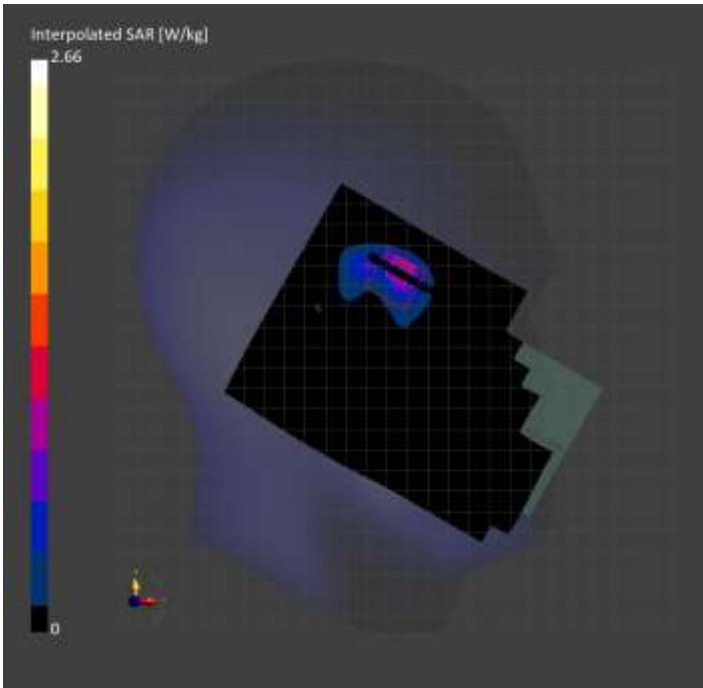
Probe   Calibration Date	EX3DV4 - SN3989 (Sensor X Disabled)   2024-01-09	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1674   2024-05-13	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan	Secondary Zoom Scan
Grid Extents [mm]	120.0 x 180.0	36.8 x 36.8 x 29.1	28.8 x 28.8 x 29.1
Grid Steps [mm]	10.0 x 10.0	4.6 x 4.6 x 1.4	4.8 x 4.8 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
M2/M1 [%]		69.6	69.2
Dist 3dB Peak [mm]		5.4	5.8
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	2.56, 46.5, 327.8, -169.6	2.66, 46.5, 327.8, -169.6

Measurement Results

	Area Scan	Zoom Scan	Secondary Zoom Scan
psSAR1g [W/Kg]	0.788	0.842	0.842
psSAR10g [W/Kg]	0.302	0.304	0.305
Power Drift [dB]	N/A	0.00	0.00



Band n30: 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) RBPosition:Mid

AntennaCfg:SISO, CHEEK

Exposure Conditions

Band	Band n30	TSL Permittivity	38.4
Frequency [MHz]   Channel Number	2310.000   462000	TSL Conductivity [S/m]	1.53
Group   UID	5G NR FR1 FDD   10937-AAD	Phantom Section   TSL	LeftHead   HSL
Conversion Factor	7.25	Test Distance [mm]	0.00

Hardware Setup

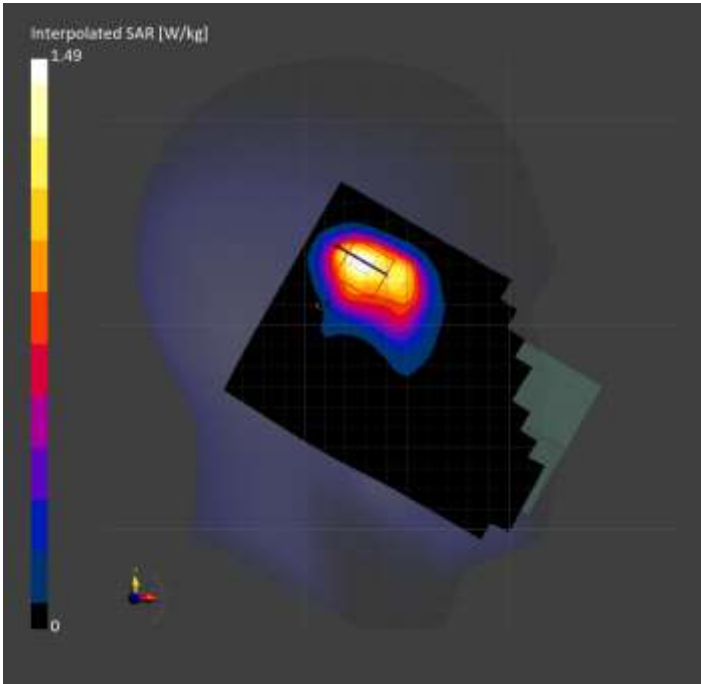
Probe   Calibration Date	EX3DV4 - SN3990   2024-02-28	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1433   2024-02-08	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 31.2
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 [%]		85.8
Dist 3dB Peak [mm]		7.7
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	1.49, 28.8, 331.8, -169.7

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.781	0.798
psSAR10g [W/Kg]	0.406	0.415
Power Drift [dB]	N/A	-0.04



WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), CHEEK

Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	39.2
Frequency [MHz]   Channel Number	2437.000   6	TSL Conductivity [S/m]	1.69
Group   UID	WLAN   10415-AAA	Phantom Section   TSL	LeftHead   HSL
Conversion Factor	7.1	Test Distance [mm]	0.00

Hardware Setup

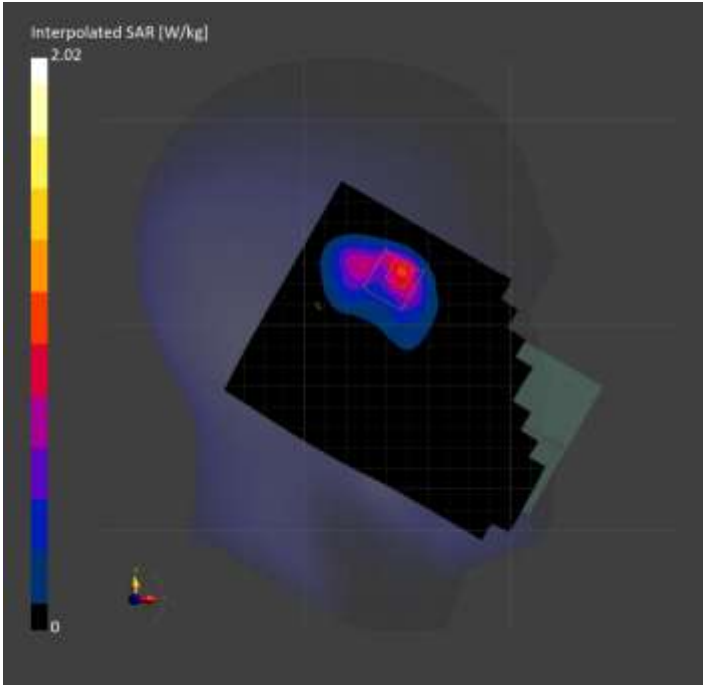
Probe   Calibration Date	EX3DV4 - SN3990   2024-02-28	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1433   2024-02-08	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.8 x 30.8 x 31.2
Grid Steps [mm]	10.0 x 10.0	4.4 x 4.4 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		79.3
Dist 3dB Peak [mm]		6.3
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	2.02, 46.4, 325.3, -169.9

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.781	0.877
psSAR10g [W/Kg]	0.372	0.388
Power Drift [dB]	N/A	-0.04



WLAN 5GHz: IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK), CHEEK

Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	38.1
Frequency [MHz]   Channel Number	5230.000   46	TSL Conductivity [S/m]	4.38
Group   UID	WLAN   10114-CAE	Phantom Section   TSL	RightHead   HSL
Conversion Factor	5.15	Test Distance [mm]	0.00

Hardware Setup

Probe   Calibration Date	EX3DV4 - SN3991   2024-11-04	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE   Calibration Date	DAE4 Sn1544   2024-01-16	TSL Type	HBBL-600-10000
Software Version	16.4.0.5005		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	38.0 x 38.0 x 22.9
Grid Steps [mm]	10.0 x 10.0	3.8 x 3.8 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		4.2
Peak SAR [W/kg], SAR Peak Location [mm]	N/A	3.33, 24.8, -325.8, -169.9

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.691	0.843
psSAR10g [W/Kg]	0.283	0.325
Power Drift [dB]	N/A	0.07

