Appendix D

Per standard guidance, dipoles longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

a. When the measured SAR deviates from the calibrated SAR value by less than 10%.
b. When the most recent return loss result, measured at least annually, deviates by less than 20% from the previous measurement.
c. When the most recent measurement of the impedance, measured at least annually, deviates by more than 5 Ω from the previous measurement.

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RETURN LOSS

				TARGET	MEAS.	DEVIATION	EVALUATION	TEST DATE
Calibration By CTTL				(dB)	(dB)	(%)	(PASS/FAIL)	
TYPE	SN.	FREQ.	CAL.DATE					
D5GHzV2	1349	5250 MHz	2024/03/19	-28.917	-31.164	7.77%	PASS	2025/01/17
D5GHzV2	1349	5600 MHz	2024/03/19	-25.691	-26.385	2.70%	PASS	2025/01/17
D5GHzV2	1349	5750 MHz	2024/03/19	-26.309	-27.583	4.84%	PASS	2025/01/17
D5GHzV2	1349	5850 MHz	2024/03/19	-26.575	-24.082	9.38%	PASS	2025/01/17

IMPEDANCE

				TARGET	MEAS.	DEVIATION	EVALUATION	TEST DATE
Calibration By CTTL				(Ω)	(Ω)	(Ω)	(PASS/FAIL)	
TYPE	SN.	FREQ.	CAL.DATE					
D5GHzV2	1349	5250 MHz	2024/03/19	46.841	51.782	4.941	PASS	2025/01/17
D5GHzV2	1349	5600 MHz	2024/03/19	52.406	51.100	1.306	PASS	2025/01/17
D5GHzV2	1349	5750 MHz	2024/03/19	52.642	48.393	4.249	PASS	2025/01/17
D5GHzV2	1349	5850 MHz	2024/03/19	54.732	56.199	1.467	PASS	2025/01/17

SYSTEM CHECK

				TARGET		MEAS.		DEVIATION		EVALUATION	TEST DATE
Calibration By CTTL				1g SAR (W/kg)	10g SAR (W/kg)	1g SAR (W/kg)	10g SAR (W/kg)	1g	10g	(PASS/FAIL)	
TYPE	SN.	FREQ.	CAL.DATE								
D5GHzV2	1349	5250 MHz	2024/03/19	8.09	2.31	7.73	2.25	4.45%	2.60%	PASS	2025/01/17
D5GHzV2	1349	5600 MHz	2024/03/19	8.24	2.35	8.06	2.32	2.18%	1.28%	PASS	2025/01/17
D5GHzV2	1349	5750 MHz	2024/03/19	8.08	2.30	8.13	2.31	0.62%	0.43%	PASS	2025/01/17
D5GHzV2	1349	5850 MHz	2024/03/19	7.99	2.26	8.13	2.33	1.75%	3.10%	PASS	2025/01/17

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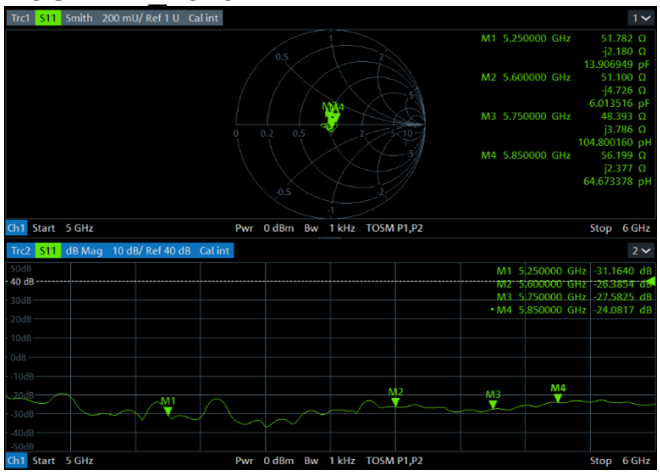
D5GHzV2_1349



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Dipole_D5250-SN:1349
Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.62	4.789	36.349

Hardware Setup

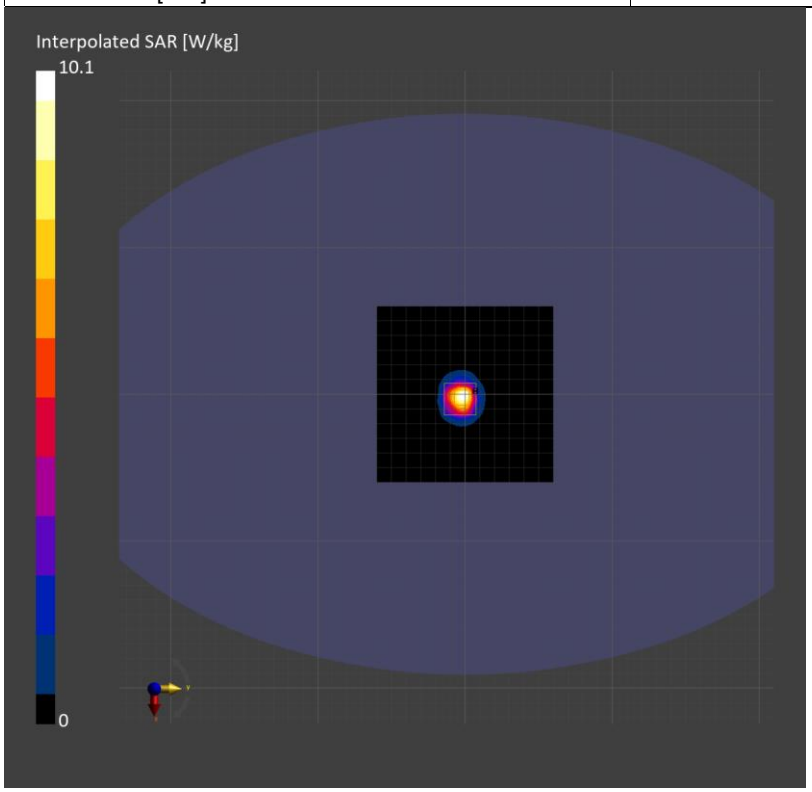
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-17	2025-01-17
psSAR1g [W/kg]	6.77	7.73
psSAR8g [W/kg]	2.43	2.62
psSAR10g [W/kg]	2.10	2.25
Power Drift [dB]	-0.04	-0.05
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		7.3



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Dipole_D5600-SN:1349
Ambient temperature: 22.3°C; Liquid temperature: 21.6°C
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.13	5.154	35.949

Hardware Setup

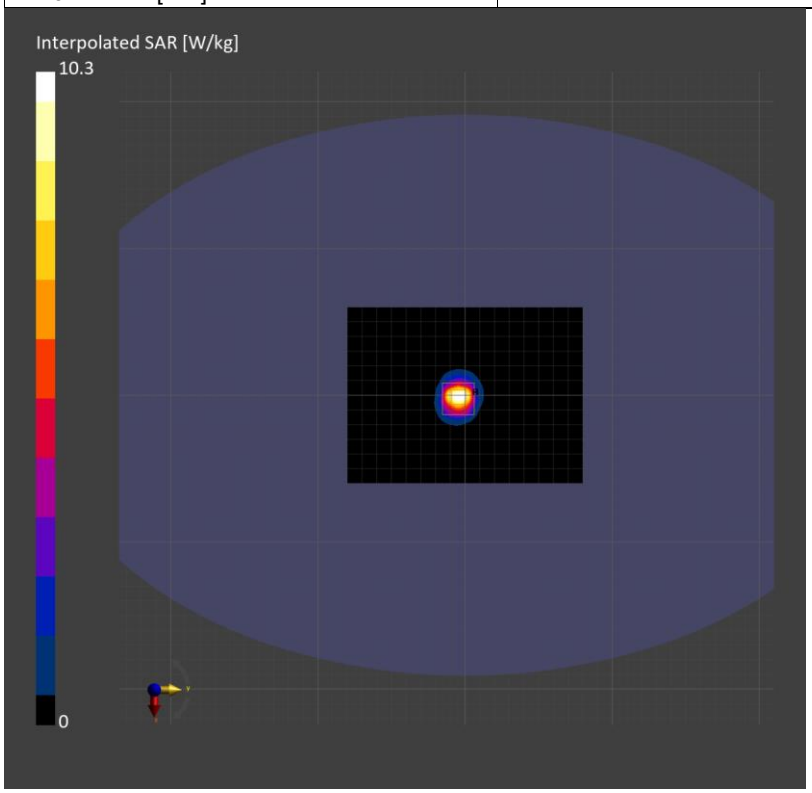
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-17	2025-01-17
psSAR1g [W/kg]	7.33	8.06
psSAR8g [W/kg]	2.60	2.68
psSAR10g [W/kg]	2.24	2.32
Power Drift [dB]	-0.04	0.03
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		7.4



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Dipole_D5750-SN:1349
Ambient temperature: 22.3°C; Liquid temperature: 21.6°C
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	FRONT, 10.00	5.21	5.309	35.777

Hardware Setup

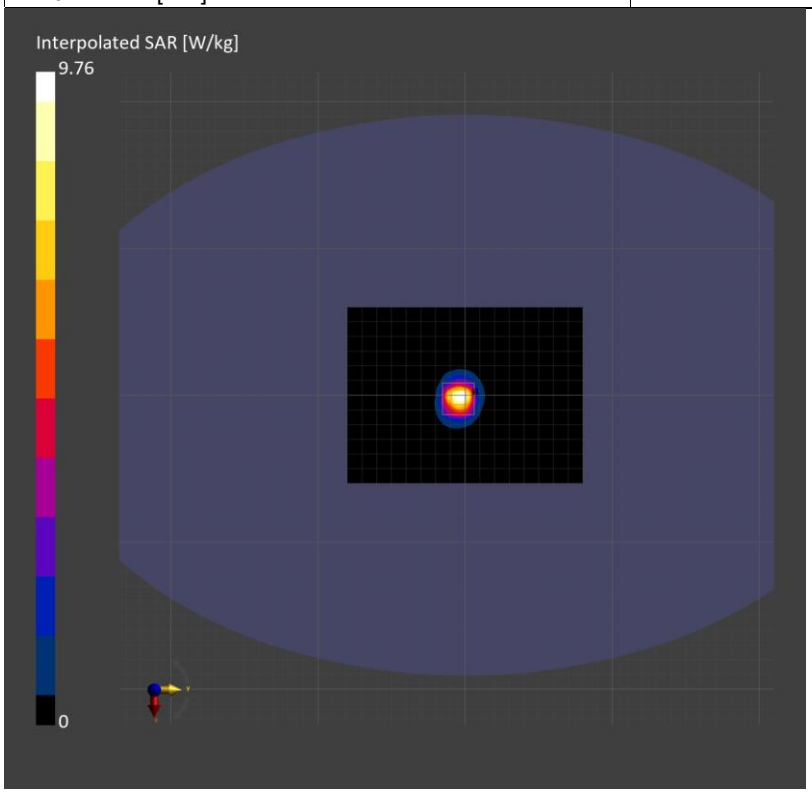
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-17	2025-01-17
psSAR1g [W/kg]	6.99	8.13
psSAR8g [W/kg]	2.51	2.73
psSAR10g [W/kg]	2.17	2.31
Power Drift [dB]	0.04	-0.01
M2/M1 [%]		50.4
Dist 3dB Peak [mm]		7.4



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Dipole_D5850-SN:1349
Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	5.10	5.496	36.243

Hardware Setup

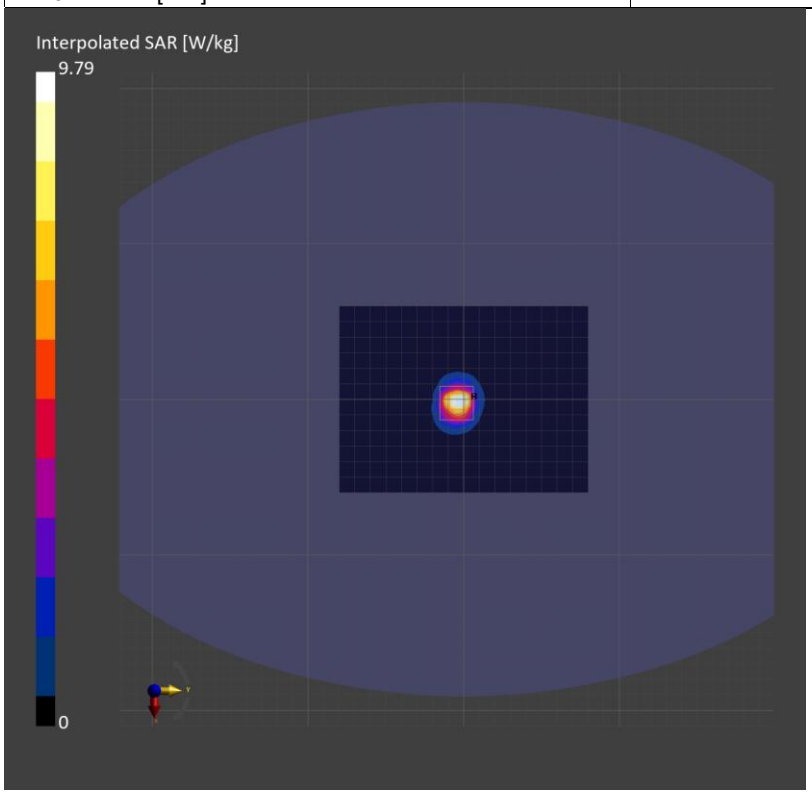
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN3665, 2024-09-04	DAE4 Sn1260, 2024-09-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2025-01-17	2025-01-17
psSAR1g [W/kg]	7.00	8.13
psSAR8g [W/kg]	2.52	2.71
psSAR10g [W/kg]	2.18	2.33
Power Drift [dB]	0.06	0.06
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		7.4



End of report -

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