

Appendix A

System Check 13 MHz Head
System Check 2450 MHz Head
System Check 5300 MHz Head
System Check 5600 MHz Head
System Check 5800 MHz Head
System Check 6500MHz Head
System Check 10GHz

Summary

Dipole	Frequency [MHz]	TSL	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
CLA-13 – SN1043	13.0	HSL	27.7	28.1	n/a	2.0

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	0		CW, 0--	13.000, 0	18.19	0.763	54.2

Hardware Setup

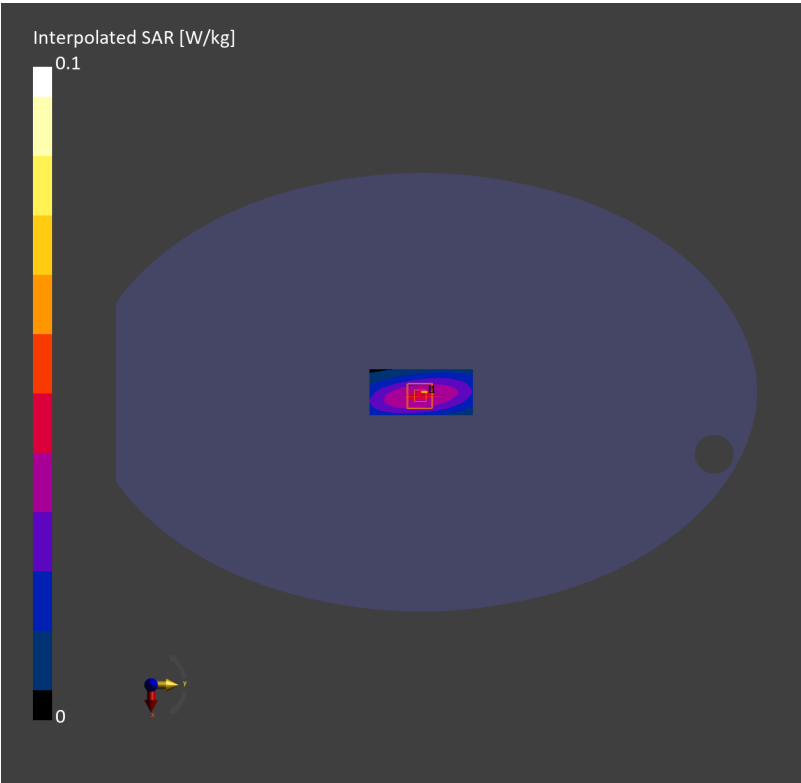
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL13MHz	EX3DV4 – SN7858, 2025-02-20	DAE4ip Sn1847, 2024-12-31

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025-12-17, 18:57	2025-12-17, 19:04
psSAR1g [W/Kg]	0.047	0.049
psSAR10g [W/Kg]	0.031	0.032
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D2450V2 – SN1099	2450.0	HSL	20.0	–0.4	0.4	0.7	5.0

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10	CW, 0--		2450.000, 0	7.57	1.81	39.5

Hardware Setup

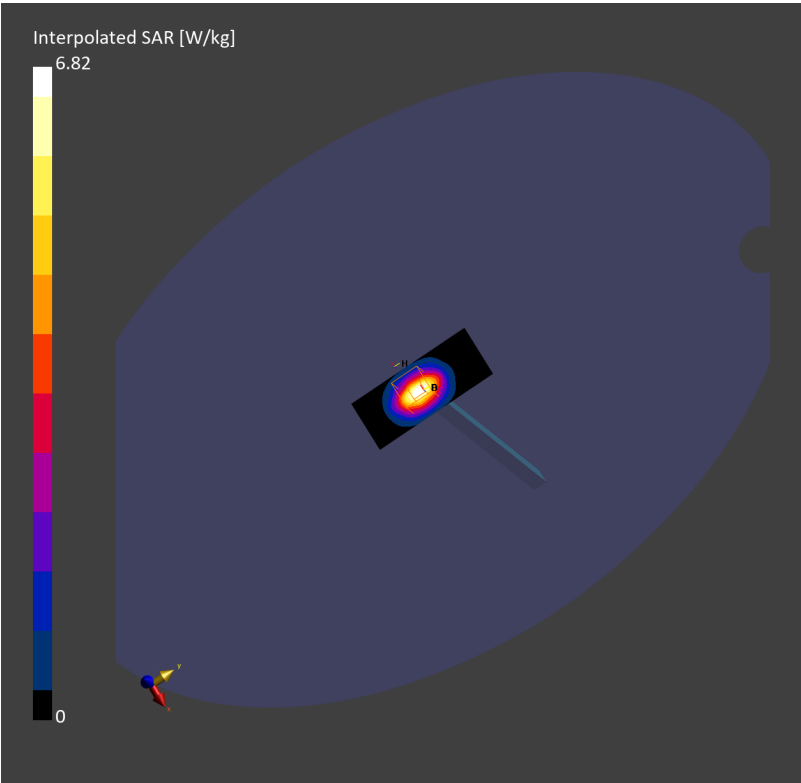
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL2450	EX3DV4 – SN7758, 2024–09–12	DAE4ip Sn1846, 2024–12–10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–07–15, 07:16	2025–07–15, 07:23
psSAR1g [W/Kg]	5.22	5.13
psSAR10g [W/Kg]	2.43	2.40
Power Drift [dB]	0.00	–0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 – SN1371	5300.0	HSL	20.0	–1.3	–1.2	–0.7	–1.9

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10	CW, 0--	5300.000, 0		5.25	4.76	36.0

Hardware Setup

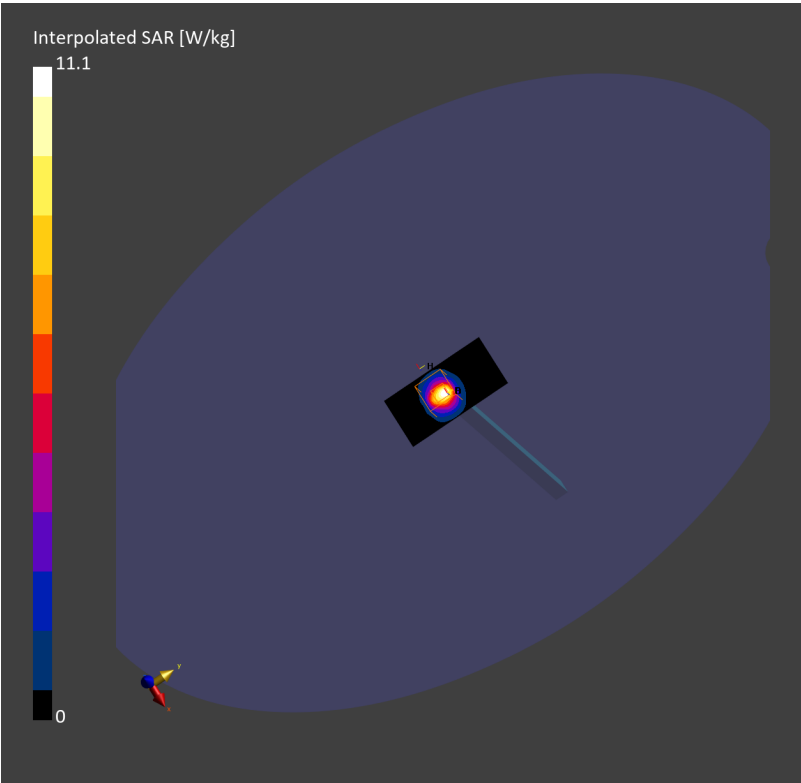
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL5GHz	EX3DV4 – SN7858, 2025–01–15	DAE4ip Sn1846, 2024–12–10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	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
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–07–13, 07:20	2025–07–13, 07:27
psSAR1g [W/Kg]	7.27	7.98
psSAR10g [W/Kg]	2.17	2.28
Power Drift [dB]	–0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Test Laboratory: TOWE Lab

System Performance Check Report

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 – SN1371	5600.0	HSL	20.0	–0.0	0.0	1.3	–2.1

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10	CW, 0--	5600.000, 0		4.65	5.11	35.0

Hardware Setup

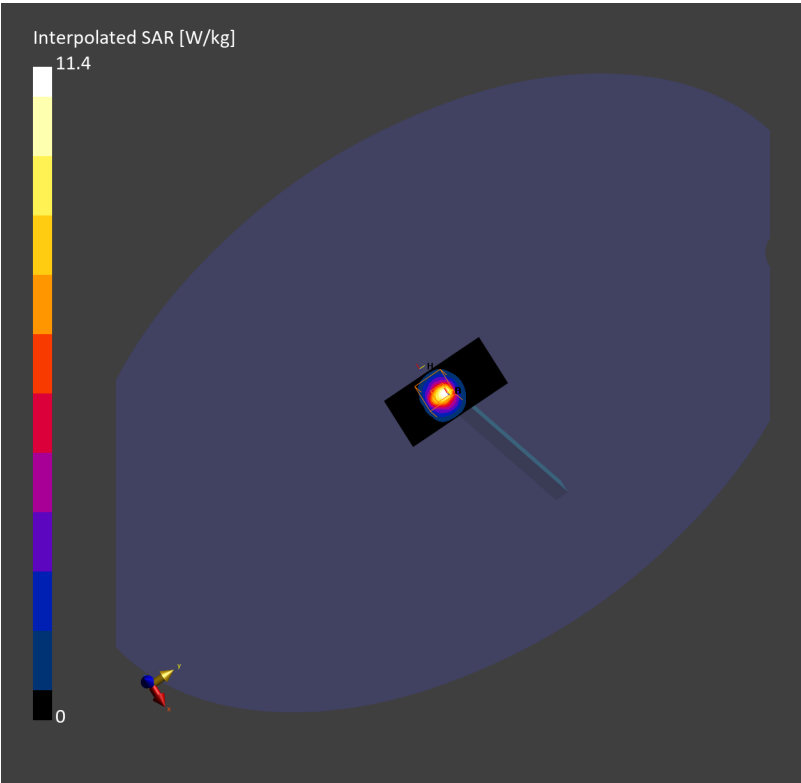
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL5GHz	EX3DV4 – SN7858, 2025–01–15	DAE4ip Sn1846, 2024–12–10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	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
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–07–14, 07:27	2025–07–14, 07:33
psSAR1g [W/Kg]	7.59	8.25
psSAR10g [W/Kg]	2.24	2.34
Power Drift [dB]	–0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 – SN1371	5800.0	HSL	20.0	–2.0	–2.1	0.7	2.4

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0--	5800.000, 0	4.75	5.29	34.9

Hardware Setup

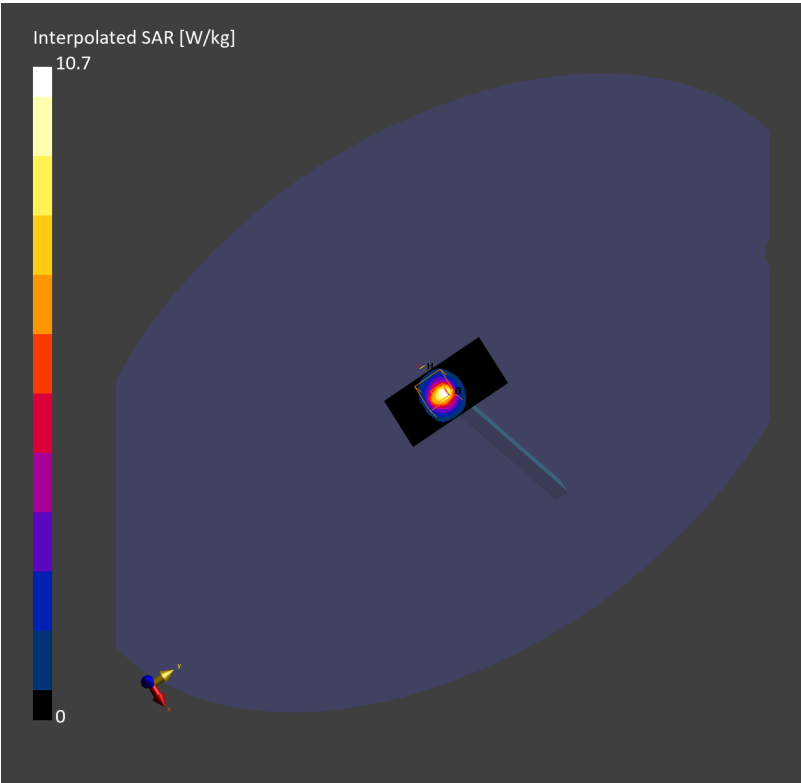
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL5GHz	EX3DV4 – SN7858, 2025–01–15	DAE4ip Sn1846, 2024–12–10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	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
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–07–16, 07:06	2025–07–16, 07:12
psSAR1g [W/Kg]	7.15	7.83
psSAR10g [W/Kg]	2.09	2.20
Power Drift [dB]	–0.02	–0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D6.5GHzV2 – SN1096	6500.0	HSL	20.0	–0.3	3.8	–11.4	10.4

Exposure Conditions

Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	5	CW, 0–		6500.000, 0	5.45	6.14	34.9

Hardware Setup

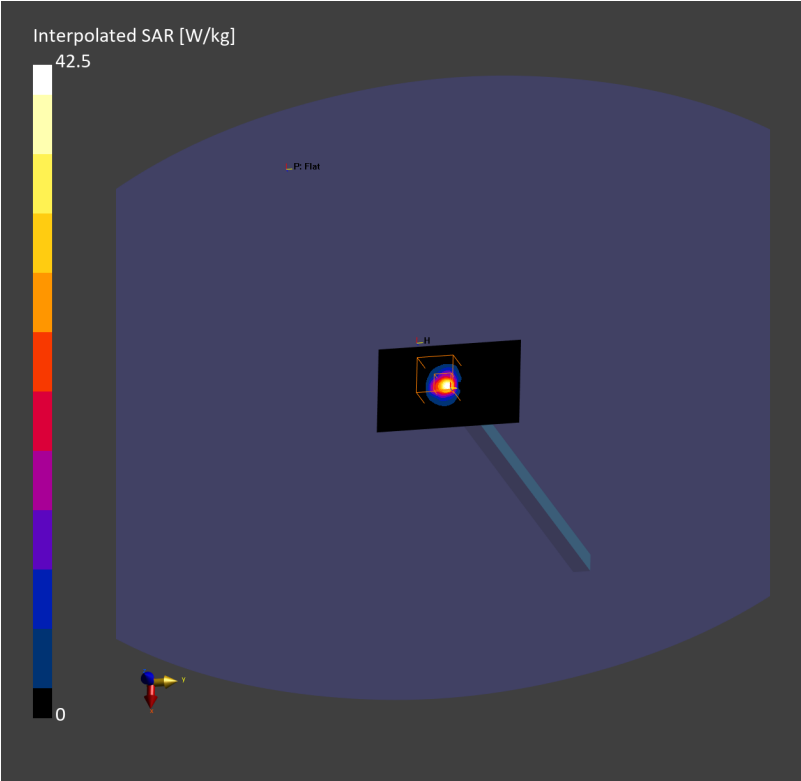
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0 (20deg probe tilt) – 2222	HSL6.5GHz	EX3DV4 – SN7858, 2025–02–20	DAE4ip Sn1846, 2024–12–10

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
Grading Ratio	N/A	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2025–07–12, 14:59	2025–07–12, 15:07
psSAR1g [W/Kg]	24.6	28.7
psSAR10g [W/Kg]	5.16	5.52
Power Drift [dB]	–0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



Device Under Test Properties

Model	Dimensions [mm]	IMEI
5G Verification Source 10GHz	100.0 x 100.0 x 172.0	1075

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave – 1121	Air –	EUmmWV4 – SN9499_F1–55GHz, 2024–12–06	DAE4ip Sn1847, 2024–12–31

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.125 x 0.125
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2025–07–17, 08:33
Avg. Area [cm²]	4.00
psPDn+ [W/m²]	55.3
psPDtot+ [W/m²]	55.9
psPDmod+ [W/m²]	56.1
E _{max} [V/m]	149
Power Drift [dB]	0.00

