

# **Appendix A**

System Check 13 MHz Head	
System Check 750 MHz Head	
System Check 835 MHz Head	
System Check 1750 MHz Head	
System Check 1950 MHz Head	
System Check 2450 MHz Head	
System Check 2600 MHz Head	
System Check 5200 MHz Head	
System Check 5300 MHz Head	
System Check 5600 MHz Head	
System Check 5800 MHz Head	

## System Performance Check Report

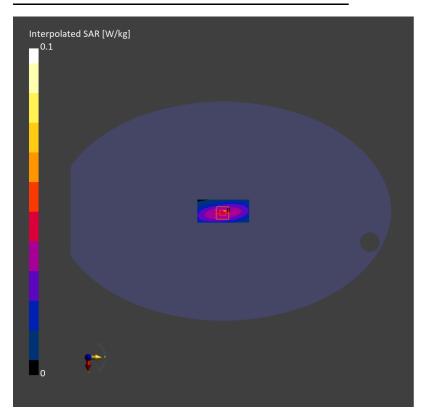
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Janninai y							
Dipole	Frequency [MHz]	TSL	Power [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
CLA-13 - SN1043	13.0	HSL	20.0	27.7	28.1	n/a	2.0
Exposure Condition	S						
Phantom Section, TSL	Test Distance [mm]	Band Group, UID	Frequency [M	Hz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liqu	uid 0	CW, 0	13.000, 0		18.19	0.765	56.1
Hardware Setup							
Phantom		TSL	Probe, (	Calibration Date	ĺ	DAE, Calibration Date	
ELI V8.0 (20deg probe t	ilt) – 2222	HSL3-6GHz	EX3DV4	1 - SN7858, 2025-02-20	I	DAE4ip Sn1846, 2024-12	-10

Scans	

Jeans Jetup		
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 × 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 nesures		
	Area Scan	Zoom Scan
Date	2025-05-06, 07:57	2025-05-06, 08:04
psSAR1g [W/Kg]	0.051	0.050
psSAR10g [W/Kg]	0.034	0.032
Power Drift [dB]	0.03	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



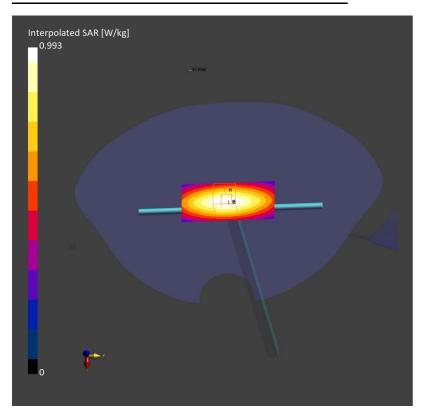
#### System Performance Check Report

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Dipole	Frequency [MHz]		TSL Pov	wer [dBm] Dev. 1g	[%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D750V3 - SN1231	750.0		HSL 20	.0 0.5		0.7	13.6	-6.4
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [MHz], Chann	el Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	15		CW, 0	750.000, 0		9.65	0.893	43.2
Hardware Setup								
Phantom			TSL	Probe, Calibration D	ate		DAE, Calibration Date	
Twin-SAM V8.0 (30dea probe	tilt) - 2168		HSL750	EX3DV4 - SN7812.	2024-06-2	5	DAE4ip Sn1846, 2024-1	2-10

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	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement results		
	Area Scan	Zoom Scan
Date	2025-04-26, 07:44	2025-04-26, 07:51
psSAR1g [W/Kg]	0.860	0.865
psSAR10g [W/Kg]	0.573	0.568
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



## System Performance Check Report

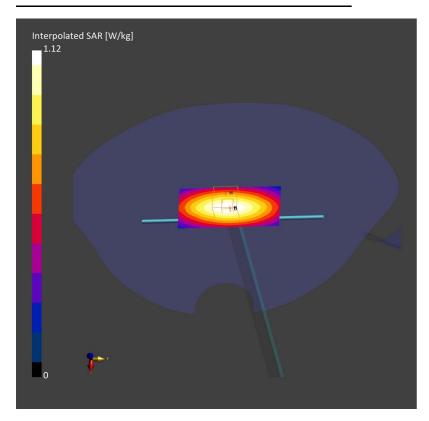
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Julilialy								
Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D835V2 - SN4d302	835.0		HSL 2	0.0	1.0	0.3	15.9	-1.9
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UI	Frequency [MH	lz], Channel Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	15		CW, 0	835.000, 0		9.84	0.907	42.6
Hardware Setup								
Phantom			TSL	Probe, Ca	libration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	tilt) - 2168		HSL83	5 EX3DV4 -	SN3624, 2025-01-1	5	DAE4ip Sn1846, 2024-12	2-10

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Scans Setup		
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 × 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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement results		
	Area Scan	Zoom Scan
Date	2025-04-22, 07:34	2025-04-22, 07:40
psSAR1g [W/Kg]	0.965	0.980
psSAR10g [W/Kg]	0.635	0.635
Power Drift [dB]	-0.02	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



## System Performance Check Report

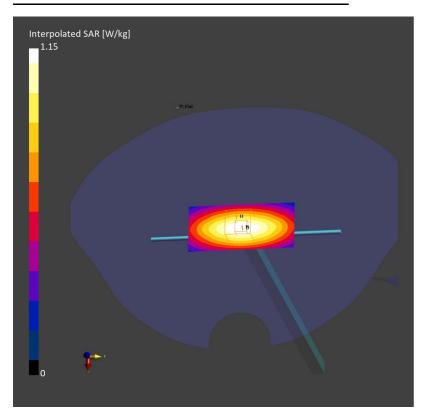
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Janinary								
Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D835V2 - SN4d302	835.0		HSL 2	0.0	2.2	2.1	18.2	1.7
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UIE	Frequency [MH	lz], Channel Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	15		CW, 0	835.000, 0		9.84	0.898	41.8
Hardware Setup								
Phantom			TSL	Probe, Ca	libration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	e tilt) – 2168		HSL835	EX3DV4 -	SN3624. 2025-01-1	5	DAE4ip Sn1846, 2024-12	2-10

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Jeans Jetup		
	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

measurement results		
	Area Scan	Zoom Scan
Date	2025-05-06, 07:29	2025-05-06, 07:36
psSAR1g [W/Kg]	0.997	1.03
psSAR10g [W/Kg]	0.652	0.656
Power Drift [dB]	0.07	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
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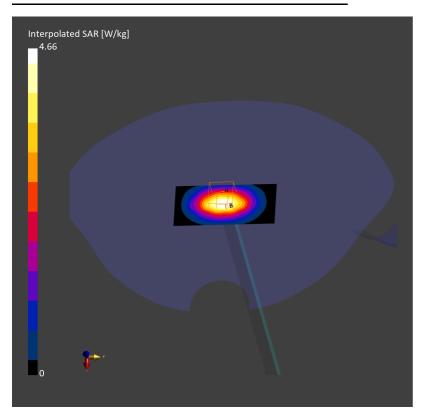
Dipole	Frequency [MHz]		TSL F	ower [dBm] [	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D1750V2 - SN1115	1750.0		HSL 2	20.0	0.8	2.4	10.0	2.0
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UII	D Frequency [MHz],	Channel Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	1750.000, 0		8.54	1.41	41.0
Hardware Setup								
Phantom			TSL	Probe, Calib	ration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	e tilt) – 2168		HSL175	50 EX3DV4 – SN	N3624, 2025-01-	15	DAE4ip Sn1846, 2024-12	2-10

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	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	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement	Results
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measurement mesures		
	Area Scan	Zoom Scan
Date	2025-04-21, 14:59	2025-04-21, 15:06
psSAR1g [W/Kg]	3.76	3.76
psSAR10g [W/Kg]	2.02	2.01
Power Drift [dB]	-0.02	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



## System Performance Check Report

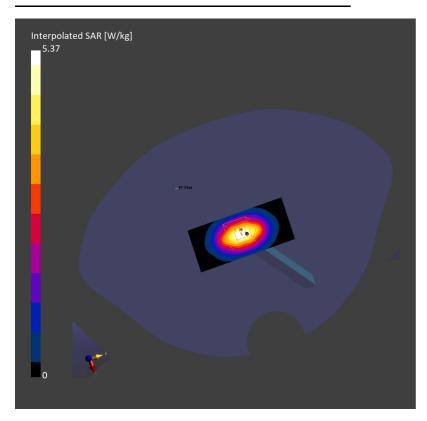
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Sammary								
Dipole	Frequency [MHz]		TSL Po	wer [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D1950V3 - SN1266	1950.0		HSL 20	0.0	2.2	3.4	9.3	-7.5
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [M	Hz], Channel Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	1950.000, 0		8.21	1.46	40.5
Hardware Setup								
Phantom			TSL	Probe,	Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	tilt) - 2168		HSL1950	EX3DV	4 - SN3624, 2025-01-	15	DAE4ip Sn1846, 2024-12	2-10

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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	N/A	N/A
Surface Detection	All points	All points
Scan Method	Measured	Measured

Medsarement Results		
	Area Scan	Zoom Scan
Date	2025-04-21, 23:37	2025-04-21, 23:47
psSAR1g [W/Kg]	4.25	4.18
psSAR10g [W/Kg]	2.14	2.16
Power Drift [dB]	-0.07	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
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## System Performance Check Report

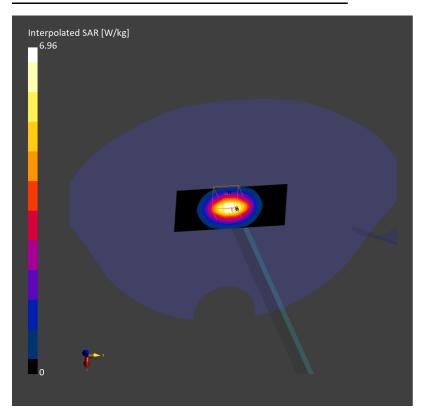
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Dipole	Frequency [MHz]		TSL Po	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D2450V2 - SN1099	2450.0		HSL 2	0.0	1.5	2.7	2.3	5.9
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [	[MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	2450.000,	0	7.27	1.84	40.8
Hardware Setup								
Phantom			TSL	Probe	, Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	tilt) - 2168		HSL245	D EX3D	V4 - SN7812, 2024-06-	25	DAE4ip Sn1846, 2024-12	2-10

#### Scans Setup

Area Scan	Zoom Scan
40.0 x 96.0	30.0 x 30.0 x 30.0
10.0 x 12.0	5.0 x 5.0 x 1.5
3.0	1.4
N/A	Yes
N/A	1.5
N/A	N/A
VMS + 6p	VMS + 6p
Measured	Measured
	40.0 x 96.0 10.0 x 12.0 3.0 N/A N/A N/A VMS + 6p

Area Scan	Zoom Scan
2025-04-23, 07:57	2025-04-23, 08:04
5.28	5.22
2.45	2.45
0.00	0.01
Disabled	Disabled
No correction	No correction
	2025-04-23, 07:57 5.28 2.45 0.00 Disabled



## System Performance Check Report

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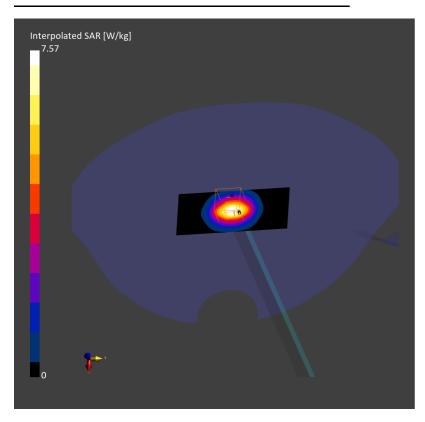
Dipole	Frequency [MHz]		TSL Po	wer [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D2600V2 - SN1094	2600.0		HSL 20	0.0	-1.4	1.6	-0.5	6.1
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [	MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m	] TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	2600.000, 0	)	7.09	2.02	38.8
Hardware Setup								
Phantom			TSL	Probe	, Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	tilt) - 2168		HSL2600	EX3D	V4 - SN7812, 2024-06-	25	DAE4ip Sn1846, 2024-12	2-10

Scane	Catura

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	Reculte
Measurement	Results

Measurement results		
	Area Scan	Zoom Scan
Date	2025-04-26, 07:32	2025-04-26, 07:39
psSAR1g [W/Kg]	5.67	5.63
psSAR10g [W/Kg]	2.55	2.56
Power Drift [dB]	-0.00	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
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## System Performance Check Report

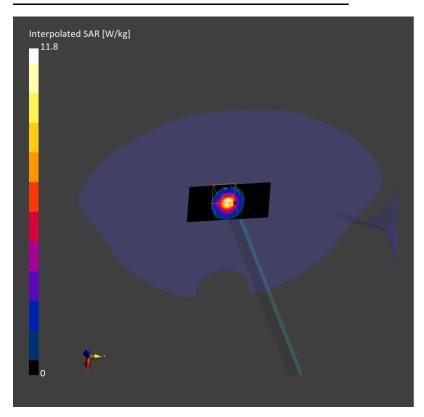
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Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	lso. Error [%]
D5GHzV2 - SN1371	5200.0		HSL 2	0.0	1.0	3.7	-1.0	9.3
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UI	Frequency [N	/Hz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	5200.000, 0		5.25	4.72	35.8
Hardware Setup								
Phantom			TSL	Probe,	Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe	e tilt) – 2168		HSL5GH	z EX3DV	/4 - SN7858, 2025-01-	-15	DAE4ip Sn1846, 2024-12	2-10

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	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 nesures		
	Area Scan	Zoom Scan
Date	2025-04-24, 08:52	2025-04-24, 08:59
psSAR1g [W/Kg]	7.31	7.98
psSAR10g [W/Kg]	2.13	2.32
Power Drift [dB]	0.00	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



## System Performance Check Report

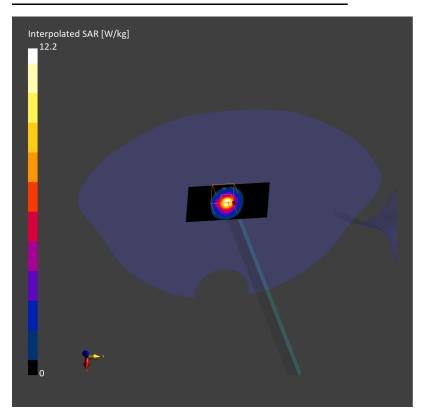
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Su	m	m	a	rv

Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 - SN1371	5300.0		HSL 2	0.0	0.4	1.7	0.4	-9.2
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UIE	Frequency [Mi	dz], Channel Number	Conversion Factor	TSL Conductivity [S/m	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	5300.000, 0		5.25	4.83	35.8
Hardware Setup								
Phantom			TSL	Probe, 0	Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe tilt) – 2168		HSL5GH	z EX3DV4	- SN7858, 2025-01-	-15	DAE4ip Sn1846, 2024-1	2-10	

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Jeans Jetap		
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 × 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 nesures		
	Area Scan	Zoom Scan
Date	2025-04-24, 12:03	2025-04-24, 12:09
psSAR1g [W/Kg]	7.54	8.12
psSAR10g [W/Kg]	2.17	2.35
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



## System Performance Check Report

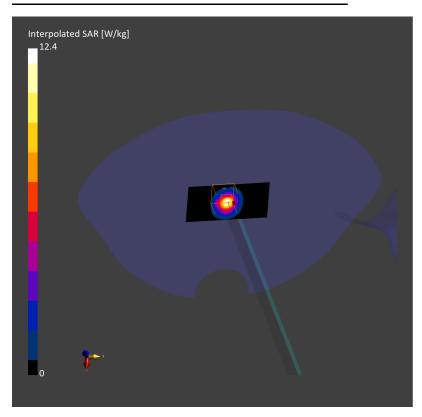
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Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	Iso. Error [%]
D5GHzV2 - SN1371	5600.0		HSL 2	0.0	0.7	1.9	-0.0	9.4
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [l	MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	5600.000, 0	)	4.65	5.19	34.9
Hardware Setup								
Phantom			TSL	Probe	, Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe tilt) – 2168		HSL5GH	z EX3D	/4 - SN7858, 2025-01-	-15	DAE4ip Sn1846, 2024-12	2-10	

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	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

	Area Scan	Zoom Scan
Date	2025-04-25, 11:12	2025-04-25, 11:19
psSAR1g [W/Kg]	7.75	8.31
psSAR10g [W/Kg]	2.21	2.38
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction



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Dipole	Frequency [MHz]		TSL P	ower [dBm]	Dev. 1g [%]	Dev. 10g [%]	Dev. Peak [%]	lso. Error [%]
D5GHzV2 - SN1371	5800.0		HSL 2	0.0	-5.9	-3.8	-6.5	-9.5
Exposure Conditions								
Phantom Section, TSL	Test Distance [mm]	Band	Group, UID	Frequency [N	MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, Head Simulating Liquid	10		CW, 0	5800.000, 0		4.75	5.46	34.8
Hardware Setup								
Phantom			TSL	Probe,	Calibration Date		DAE, Calibration Date	
Twin-SAM V8.0 (30deg probe tilt) – 2168		HSL5GH	HSL5GHz EX3DV4 - SN7858, 2025-01-1		DAE4ip Sn1846, 2024–12–10		2-10	

Scar	ıc	ς	Δt	 n

ocano octup		
	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

Area Scan	Zoom Scan
2025-04-26, 10:32	2025-04-26, 10:38
7.03	7.52
2.01	2.16
0.01	-0.01
Disabled	Disabled
No correction	No correction
	2025-04-26, 10:32 7.03 2.01 0.01 Disabled

