

4. SYSTEM CHECK MEASUREMENTS

4.1. Validation results for Head TSL

Date	Frequency (MHz)	SAR over	Estimated SAR (W/kg)	SAR (W/kg)	1 W Target SAR (W/kg)	1 W Norm. SAR (W/kg)	Drift (%)
2022/09/14	750	1 gr.	2.26	2.24	8.43	8.96	6.29
		10 gr.	1.51	1.46	5.51	5.84	5.99
2022/10/13	750	1 gr.	2.24	2.19	8.43	8.76	3.91
		10 gr.	1.49	1.44	5.51	5.76	4.54
2022/07/27	900	1 gr.	2.87	2.81	11.10	11.24	1.26
		10 gr.	1.86	1.80	7.07	7.20	1.84
2022/10/18	900	1 gr.	2.90	2.80	11.10	11.20	0.90
		10 gr.	1.89	1.78	7.07	7.12	0.71
2022/11/02	900	1 gr.	2.77	2.71	11.10	10.84	-2.34
		10 gr.	1.80	1.73	7.07	6.92	-2.12
2022/08/01	1800	1 gr.	10.10	9.60	39.30	38.53	-1.95
		10 gr.	5.30	5.00	20.40	20.07	-1.62
2022/08/30	1800	1 gr.	9.95	9.54	39.30	38.16	-2.90
		10 gr.	5.26	4.97	20.40	19.88	-2.55
2022/10/19	1800	1 gr.	9.74	9.43	39.30	37.94	-3.47
		10 gr.	5.13	4.86	20.40	19.55	-4.16
2022/08/03	2600	1 gr.	15.00	14.40	57.10	57.60	0.88
		10 gr.	6.69	6.26	25.60	25.04	-2.19
2022/09/15	2600	1 gr.	15.10	14.70	57.10	58.80	2.98
		10 gr.	6.74	6.38	25.60	25.52	-0.31
2022/09/19	2600	1 gr.	15.20	14.80	57.10	59.20	3.68
		10 gr.	6.85	6.47	25.60	25.88	1.09
2022/10/17	2600	1 gr.	15.60	15.00	57.10	59.79	4.72
		10 gr.	7.10	6.48	25.60	25.83	0.90
2022/10/20	3300	1 gr.	6.78	6.61	65.90	66.10	0.30
		10 gr.	2.64	2.52	25.00	25.20	0.80
2022/10/20	3500	1 gr.	6.69	6.64	66.70	66.40	-0.45
		10 gr.	2.48	2.48	25.10	24.80	-1.20
2022/10/20	3700	1 gr.	6.33	6.25	67.70	63.01	-6.93
		10 gr.	2.32	2.27	24.50	22.88	-6.60
2022/10/20	4200	1 gr.	6.44	6.56	65.50	65.60	0.15
		10 gr.	2.19	2.21	22.20	22.10	-0.45

5. MEASUREMENT RESULTS FOR SAR (SPECIFIC ABSORPTION RATE)

5.1. Summary maximum results for head measurements.

Mode	Side / Position	Channel (Frequency)	Reported SAR 1-g (W/kg)	Limit SAR 1-g (W/kg)
GSM 850 MHz	Back face/40 mm	CH 251 (848.8 MHz)	0.164	1.6
GPRS 2 slots 850 MHz	Back face/40 mm	CH 251 (848.8 MHz)	0.318	1.6
GSM 1900 MHz	Back face/40 mm	CH 810 (1909.8 MHz)	0.100	1.6
GPRS 1 slots 1900 MHz	Back face/40 mm	CH 810 (1909.8 MHz)	0.103	1.6
WCDMA Band II	Back face/40 mm	CH 9538 (1907.6 MHz)	0.152	1.6
WCDMA Band IV	Back face/40 mm	CH 1312 (1712.4 MHz)	0.130	1.6
WCDMA Band V	Back face/40 mm	CH 4233 (846.6 MHz)	0.132	1.6
LTE Band 4	Back face/40 mm	CH 20175 (1732.5 MHz)	0.147	1.6
LTE Band 5	Back face/40 mm	CH 20600 (844.0 MHz)	0.227	1.6
LTE Band 7	Back face/40 mm	CH 20850 (2510.0 MHz)	0.124	1.6
LTE Band 10	Back face/40 mm	CH 22250 (1720.0 MHz)	0.144	1.6
LTE Band 12	Back face/40 mm	CH 23095 (707.5 MHz)	0.116	1.6
LTE Band 13	Back face/40 mm	CH 23230 (782 MHz)	0.189	1.6
LTE Band 25	Back face/40 mm	CH 26590 (1905 MHz)	0.168	1.6
LTE Band 26	Back face/40 mm	CH 26865 (831.5 MHz)	0.140	1.6
LTE Band 41	Back face/40 mm	CH 39750 (2506.0 MHz)	0.107	1.6
LTE Band 66	Back face/40 mm	CH 132072 (1720.0 MHz)	0.165	1.6
LTE Band 71	Back face/40 mm	CH 133122 (673.0 MHz)	0.096	1.6
5G NR Band n5	Back face/40 mm	CH 167300 (836.5 MHz)	0.058	1.6
5G NR Band n7	Back face/40 mm	CH 502000 (2510 MHz)	0.065	1.6
5G NR Band n25	Back face/40 mm	CH 379000 (1895.0 MHz)	0.066	1.6
5G NR Band n38	Back face/0 mm	CH 519000 (2595.0 MHz)	0.093	1.6
5G NR Band n41	Back face/0 mm	CH 518598 (2593.0 MHz)	0.078	1.6
5G NR Band n66	Back face/40 mm	CH 346000 (1730.0 MHz)	0.049	1.6
5G NR Band n71	Back face/40 mm	CH 134600 (673.0 MHz)	0.074	1.6
5G NR Band n77	Back face/0 mm	CH 676666 (4149.99.0 MHz)	0.156	1.6
BTLE	Calculated SAR	CH 39 2480.0 MHz	0.017	1.6

5.2. Maximum multi-transmission SAR

Transmission Mode	Band	Reported SAR 1-g (W/kg)	Σ SARi (W/kg)	Limit SAR 1-g (W/kg)	Verdict
GPRS 2 slots	GSM 850	0.318	0.335	2.0	Pass
BTLE	2.4GHz	0.017			

5.3. Results for GSM 850 MHz Band.

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 190 (836.6 MHz)	0.076	0.079	-0.688	1.854	0.146	
Back face	40	CH 128 (824.2 MHz)	0.074	0.077	0.231	1.897	0.146	
Back face	40	CH 251 (848.8 MHz)	0.080	0.083	0.577	1.972	0.164	1

5.4. Results for GPRS 850 MHz Band – 2 slots.

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 251 (848.8 MHz)	0.089	0.092	1.859	3.451	0.318	2
Back face	40	CH 128 (824.2 MHz)	0.072	0.074	-0.230	3.614	0.267	
Back face	40	CH 190 (836.6 MHz)	0.073	0.077	0.809	3.475	0.268	

5.5. Results for GSM 1900 MHz Band.

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 512 (1850.2 MHz)	0.042	0.041	-0.688	1.932	0.079	
Back face	40	CH 661 (1880 MHz)	0.041	0.040	1.158	2.089	0.084	
Back face	40	CH 810 (1909.8 MHz)	0.043	0.043	-0.688	2.317	0.100	3

5.6. Results for GPRS 1900 MHz Band – 1 slot.

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 512 (1850.2 MHz)	0.040	0.040	-1.145	2.018	0.081	
Back face	40	CH 661 (1880 MHz)	0.039	0.039	0.809	2.113	0.082	
Back face	40	CH 810 (1909.8 MHz)	0.042	0.042	-0.345	2.455	0.103	4

5.7. Results for WCDMA Band II

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 9262 (1852.4 MHz)	0.080	0.081	1.158	1.429	0.116	
Back face	40	CH 9400 (1880.0 MHz)	0.082	0.082	0.231	1.626	0.133	
Back face	40	CH 9538 (1907.6 MHz)	0.093	0.092	-0.115	1.652	0.152	5

5.8. Results for WCDMA Band IV

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 1512 (1752.6 MHz)	0.069	0.070	-0.115	1.476	0.103	
Back face	40	CH 1312 (1712.4 MHz)	0.077	0.079	3.039	1.648	0.130	6
Back face	40	CH 1412 (1732.6 MHz)	0.075	0.076	-0.115	1.542	0.117	

5.9. Results for WCDMA Band V

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 4132 (826.4 MHz)	0.076	0.079	0.115	1.531	0.121	
Back face	40	CH 4183 (836.6 MHz)	0.074	0.076	-0.230	1.545	0.117	
Back face	40	CH 4233 (846.6 MHz)	0.079	0.083	0.115	1.585	0.132	7

5.10. Results for LTE Band 2 (1 RB, 20 MHz, QPSK)

SAR for LTE Band 2 has not been measured because it is covered by LTE Band 25 due to overlapping frequency range (LTE Band 2 frequency range: 1850 – 1910 MHz, LTE Band 25 frequency range: 1850 – 1915 MHz) and same maximum tune-up and channel bandwidth.

5.11. Results for LTE Band 4 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20300 (1745 MHz)	0.067	0.069	0.346	1.807	0.125	
Back face	40	CH 20050 (1720.0 MHz)	0.073	0.075	-0.917	1.884	0.141	
Back face	40	CH 20175 (1732.5 MHz)	0.079	0.080	-0.345	1.841	0.147	8

5.12. Results for LTE Band 4 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20175 (1732.5 MHz)	0.061	0.063	-1.145	1.807	0.114	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.13. Results for LTE Band 5 (1 RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20450 (829 MHz)	0.078	0.082	0.231	2.113	0.173	
Back face	40	CH 20525 (836.5 MHz)	0.081	0.084	0.115	2.178	0.183	
Back face	40	CH 20600 (844.0 MHz)	0.099	0.102	-0.115	2.223	0.227	9

5.14. Results for LTE Band 5 (50% RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20450 (829 MHz)	0.057	0.061	0.231	2.113	0.129	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.15. Results for LTE Band 7 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20850 (2510.0 MHz)	0.068	0.067	0.809	1.858	0.124	10
Back face	40	CH 21100 (2535.0 MHz)	0.064	0.062	0.809	1.995	0.124	
Back face	40	CH 21350 (2560.0 MHz)	0.050	0.050	-0.459	2.183	0.109	

5.16. Results for LTE Band 7 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 20850 (2510.0 MHz)	0.055	0.052	1.042	1.832	0.095	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.17. Results for LTE Band 10 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 22450 (1740.0 MHz)	0.069	0.070	-0.345	1.824	0.128	
Back face	40	CH 22250 (1720.0 MHz)	0.080	0.077	-3.061	1.875	0.144	11
Back face	40	CH 22650 (1760.0 MHz)	0.065	0.066	-1.712	1.841	0.121	

5.18. Results for LTE Band 10 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 22450 (1740.0 MHz)	0.058	0.060	-2.051	1.807	0.108	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.19. Results for LTE Band 12 (1 RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 23095 (707.5 MHz)	0.057	0.060	0.000	1.932	0.116	12

5.20. Results for LTE Band 12 (50% RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 23095 (707.5 MHz)	0.045	0.046	0.115	1.936	0.089	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.21. Results for LTE Band 13 (1 RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 23230 (782 MHz)	0.104	0.108	0.346	1.754	0.189	13

5.22. Results for LTE Band 13 (50% RB, 10 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 23230 (782 MHz)	0.083	0.086	-1.145	1.758	0.151	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.23. Results for LTE Band 17 (1 RB, 10 MHz, QPSK)

SAR for LTE Band 17 has not been measured because it is covered by LTE Band 12 due to overlapping frequency range (LTE Band 17 frequency range: 704 – 716 MHz, LTE Band 12 frequency range: 699 – 716 MHz) and same maximum tune-up and channel bandwidth.

5.24. Results for LTE Band 25 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 26590 (1905 MHz)	0.090	0.090	0.809	1.871	0.168	14
Back face	40	CH 26140 (1860.0 MHz)	0.083	0.083	0.577	1.968	0.163	
Back face	40	CH 26590 (1905 MHz)	0.082	0.083	0.577	1.954	0.162	

5.25. Results for LTE Band 25 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 26590 (1905 MHz)	0.071	0.070	0.346	1.888	0.132	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.26. Results for LTE Band 26 (1 RB, 15 MHz, QPSK)

- Cellula antenna LTE 1

Note: According to KDB941225 D05 SAR for LTE Devices, for LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, the middle channel of the group of overlapping channels should be selected for testing.

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 26865 (831.5 MHz)	0.090	0.094	0.231	1.489	0.140	15

5.27. Results for LTE Band 26 (50% RB, 15 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 26865 (831.5 MHz)	0.068	0.071	-0.230	1.479	0.105	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.28. Results for LTE Band 41 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 39750 (2506.0 MHz)	0.060	0.057	1.742	1.828	0.104	
Back face	40	CH 40620 (2593.0 MHz)	0.050	0.049	0.346	2.183	0.107	16
Back face	40	CH 41190 (2680.0 MHz)	0.053	0.053	1.274	1.854	0.098	

5.29. Results for LTE Band 41 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 39750 (2506.0 MHz)	0.047	0.046	3.039	1.820	0.084	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.30. Results for LTE Band 66 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 132322 (1745.0 MHz)	0.074	0.076	-0.688	2.113	0.161	
Back face	40	CH 132072 (1720.0 MHz)	0.077	0.078	-0.688	2.118	0.165	17
Back face	40	CH 132575 (1770.0 MHz)	0.065	0.067	-0.688	2.118	0.142	

5.31. Results for LTE Band 66 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 132322 (1745.0 MHz)	0.057	0.058	-3.728	2.075	0.120	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.32. Results for LTE Band 71 (1 RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 133297 (680.5 MHz)	0.052	0.053	-0.917	1.675	0.089	
Back face	40	CH 133122 (673.0 MHz)	0.051	0.053	-0.115	1.820	0.096	18
Back face	40	CH 133471 (688.0 MHz)	0.053	0.053	-0.230	1.742	0.092	

5.33. Results for LTE Band 71 (50% RB, 20 MHz, QPSK)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 133297 (680.5 MHz)	0.041	0.042	-1.145	1.675	0.070	

Testing of additional LTE configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.34. Results for LTE Carrier Aggregation inter-band

- Cellula antenna LTE 1

CA MODE	Position	Dist (mm)	PCC Config	SCC Config	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
5B	Back face	40	1RB High CH 20528 836.8 MHz 5MHz BW	1RB Low CH 20600 844.0 MHz 10MHz BW	0.078	0.081	0.115	2.249	0.182	19
7C	Back face	40	1RB High CH 20850 2510 MHz 20MHz BW	1RB Low CH 21048 2529.8 MHz 20MHz BW	0.044	0.043	0.462	1.879	0.081	20
41C	Back face	40	1RB High CH 39750 2506.0 MHz 20MHz BW	1RB Low CH 39867 2517.7 MHz 5MHz BW	0.030	0.027	-1.031	2.213	0.060	21
66B	Back face	40	1RB High CH 132575 1770.0 MHz 10MHz BW	1RB Low CH 132644 1777.2 MHz 5MHz BW	0.050	0.050	0.925	2.133	0.107	22
66C	Back face	40	1RB High CH 132522 1765.0 MHz 20MHz BW	1RB Low CH 132639 1776.7 MHz 5MHz BW	0.061	0.059	1.274	2.123	0.125	23

5.35. Results for n2 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

SAR for n2 Band has not been measured because it is covered by n25 Band due to overlapping frequency range (n2 Band frequency range: 1850 – 1910 MHz, n25 Band frequency range: 1850 – 1915 MHz) and same maximum tune-up and channel bandwidth.

5.36. Results for n5 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 167300 (836.5 MHz)	0.050	0.052	0.231	1.122	0.058	24
Back face	40	CH 166800 (834.0 MHz)	0.049	0.051	0.577	1.138	0.058	
Back face	40	CH 16800 (839.0 MHz)	0.042	0.042	0.346	1.138	0.048	

5.37. Results for n5 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 167300 (836.5 MHz)	0.037	0.039	1.158	1.151	0.045	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.38. Results for n7 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 507000 (2535 MHz)	0.036	0.035	-2.051	1.233	0.043	
Back face	40	CH 502000 (2510 MHz)	0.054	0.052	-3.395	1.245	0.065	25
Back face	40	CH 512000 (2560 MHz)	0.025	0.025	1.274	1.265	0.032	

5.39. Results for n7 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 507000 (2535 MHz)	0.025	0.022	-0.688	1.262	0.028	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.40. Results for n25 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 381000 (1905.0 MHz)	0.055	0.054	-0.115	1.230	0.066	26
Back face	40	CH 372000 (1860.0 MHz)	0.031	0.029	-1.145	1.259	0.037	
Back face	40	CH 376500 (1882.5 MHz)	0.031	0.029	-1.145	1.233	0.036	

5.41. Results for n25 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 376500 (1882.5 MHz)	0.046	0.044	3.514	1.242	0.055	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.42. Results for n38 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 519000 (2595.0 MHz)	0.056	0.053	-0.574	1.607	0.085	
Back face	0	CH 516000 (2480.0 MHz)	0.053	0.054	1.274	1.618	0.087	
Back face	0	CH 522000 (2610.0 MHz)	0.055	0.055	0.115	1.626	0.089	

5.43. Results for n38 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 519000 (2595.0 MHz)	0.054	0.053	0.577	1.762	0.093	27

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.44. Results for n41 Band (1 RB, 100 MHz, $\pi/2$ BPSK, SCS 30 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 528000 (2640.0 MHz)	0.052	0.050	-0.574	1.334	0.067	
Back face	0	CH 509202 (2546.0 MHz)	0.054	0.052	-0.688	1.361	0.071	
Back face	0	CH 518598 (2593.0 MHz)	0.057	0.057	0.115	1.361	0.078	28

5.45. Results for n41 Band (50% RB, 100 MHz, $\pi/2$ BPSK, SCS 30 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 518598 (2593.0 MHz)	0.046	0.045	-0.459	1.318	0.059	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.46. Results for n66 Band (1 RB, 40 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 352000 (1760.0 MHz)	0.026	0.026	3.157	1.230	0.032	
Back face	40	CH 346000 (1730.0 MHz)	0.038	0.040	0.809	1.236	0.049	29
Back face	40	CH 349000 (1745.0 MHz)	0.037	0.036	0.693	1.259	0.045	

5.47. Results for n66 Band (50% RB, 40 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 352000 (1760.0 MHz)	0.025	0.024	3.514	1.265	0.030	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.48. Results for n71 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 137600 (688.0 MHz)	0.046	0.048	0.115	1.183	0.057	
Back face	40	CH 134600 (673.0 MHz)	0.058	0.062	0.231	1.186	0.074	30
Back face	40	CH 136100 (680.5 MHz)	0.051	0.052	0.231	1.191	0.062	

5.49. Results for n71 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 15 kHz)

- Cellula antenna LTE 1

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	40	CH 137600 (688.0 MHz)	0.030	0.030	1.042	1.230	0.037	

Testing of additional 5G E configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.50. Results for n77 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 30 kHz)

- Cellula antenna LTE 2

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 650000 (3750.0 MHz)	0.058	0.057	1.042	1.633	0.093	
Back face	0	CH 623334 (3350.0 MHz)	0.069	0.066	1.042	1.884	0.124	
Back face	0	CH 676666 (4149.99.0 MHz)	0.085	0.083	1.508	1.884	0.156	31

5.51. Results for n77 Band (50% RB, 20 MHz, $\pi/2$ BPSK, SCS 30 kHz)

- Cellula antenna LTE 2

Position	Dist (mm)	Channel (Frequency)	Estimated SAR 1-g (W/kg)	SAR 1-g (W/kg)	Power Drift (%)	Scale factor	Reported SAR 1-g (W/kg)	Plot No.
Back face	0	CH 650000 (3750.0 MHz)	0.039	0.037	0.115	1.652	0.061	

Testing of additional 5G configurations is not required due to the SAR test procedures mentioned in FCC OET KDB 941225 D05 – SAR for LTE Devices v02r05.

5.52. Results for n78 Band (1 RB, 20 MHz, $\pi/2$ BPSK, SCS 30 kHz)

SAR for n78 Band has not been measured because it is covered by n77 Band due to overlapping frequency range (n77 Band frequency range: 3300 – 4200 MHz, n78 Band frequency range: 3300 – 3800MHz) and same maximum tune-up and channel bandwidth.

5.53. Variability results.

According to KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, paragraph “2.8.1. SAR measurement variability”, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. Repeated measurements are required only when the measured 1-g SAR is ≥ 0.80 W/kg, or 10-g SAR is ≥ 2.0 W/kg, using the highest measured SAR configuration for that tissue-equivalent medium.

No variability measurements are required.

Appendix C: Measurement report

Plot Nº1

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 5.00	GSM 850	GSM, 10021-DAC	848.8, 251	6.12	0.948	42.6

Hardware Setup

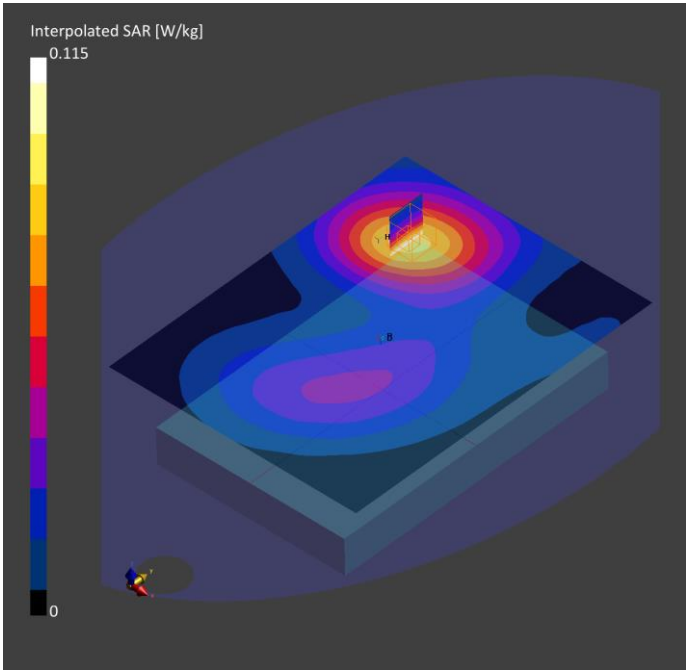
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0	Date	2022-07-28, 16:53	2022-07-28, 17:11
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	0.080	0.083
Sensor Surface [mm]	3.0	3.0	psSAR10g [W/kg]	0.056	0.061
Graded Grid	Yes	Yes	Power Drift [dB]	0.03	-0.02
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	Y	N/A	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		91.1
			Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº2

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 5.00	GSM 850	GSM, 10024-DAC	848.8, 251	6.12	0.948	42.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

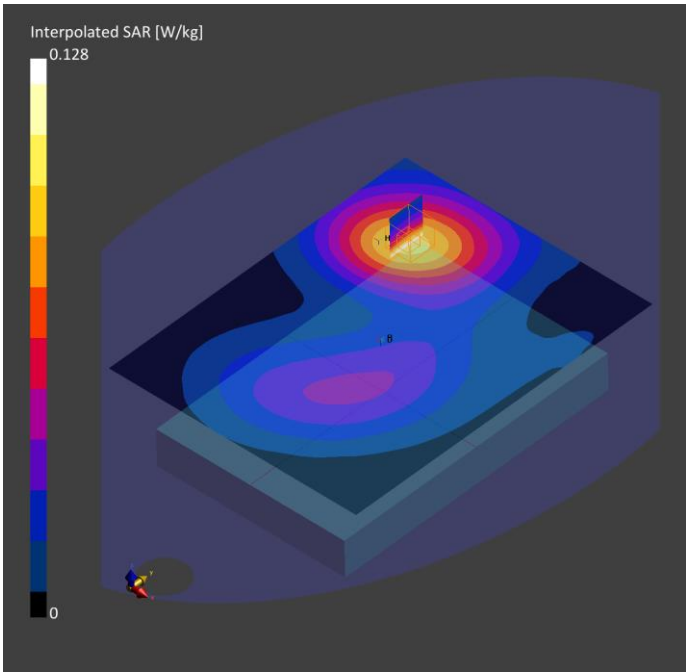
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28, 17:26	2022-07-28, 17:32
psSAR1g [W/kg]	0.089	0.092
psSAR10g [W/kg]	0.062	0.067
Power Drift [dB]	0.19	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº3

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	PCS 1900	GSM, 10021-DAC	1909.8, 810	5.28	1.37	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2000MHz - 2022- 08-29 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

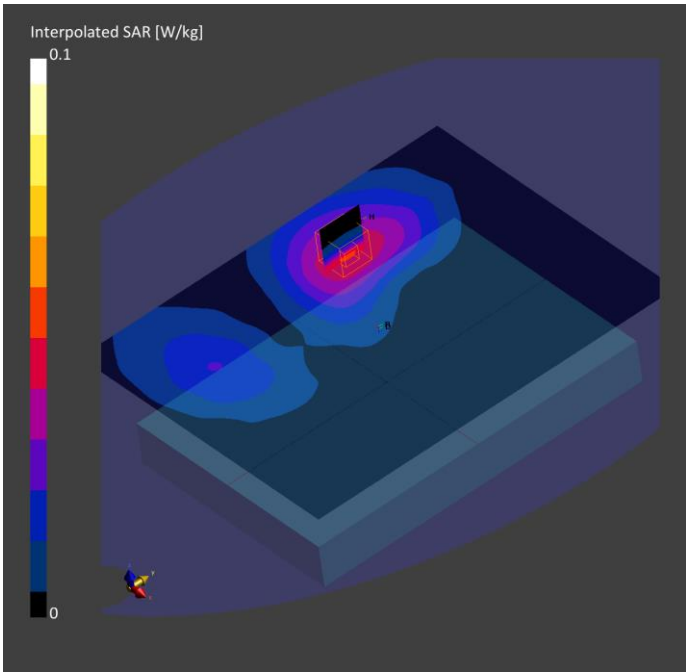
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-31, 12:18	2022-08-31, 12:24
psSAR1g [W/kg]	0.043	0.043
psSAR10g [W/kg]	0.027	0.026
Power Drift [dB]	0.08	-0.14
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.7
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº4

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	PCS 1900	GSM, 10023-DAC	1909.8, 810	5.28	1.37	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2000MHz - 2022- 08-29 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

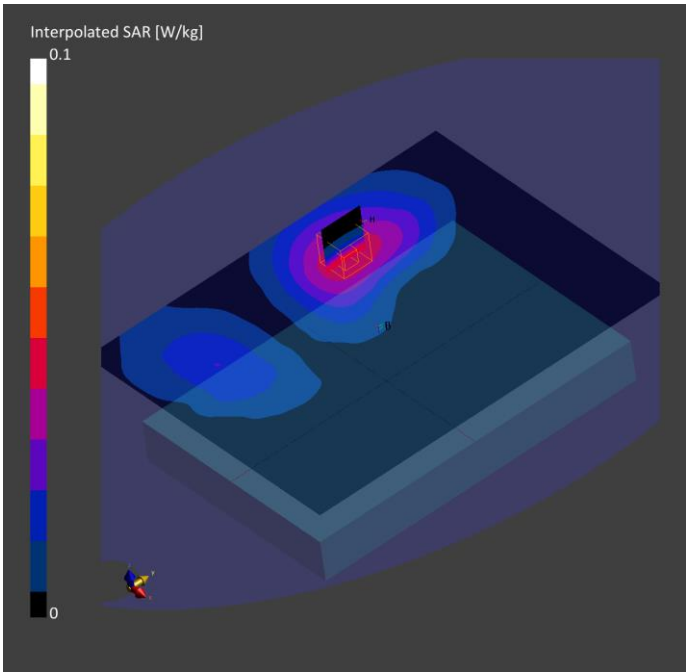
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-31, 13:39	2022-08-31, 13:51
psSAR1g [W/kg]	0.042	0.042
psSAR10g [W/kg]	0.026	0.025
Power Drift [dB]	0.07	-0.10
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.2
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº5

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 2, UTRA/FDD	WCDMA, 10011-CAB	1907.6, 9538	5.28	1.37	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2000MHz - 2022- 08-29 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

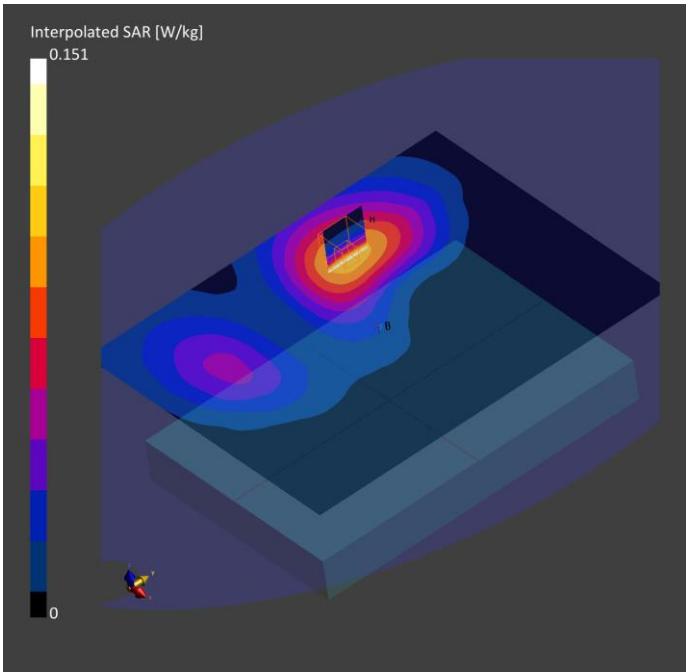
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-31, 08:44	2022-08-31, 08:50
psSAR1g [W/kg]	0.093	0.092
psSAR10g [W/kg]	0.059	0.058
Power Drift [dB]	0.03	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.4
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº6

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 4, UTRA/FDD	WCDMA, 10011-CAB	1712.4, 1312	5.28	1.30	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz_2022- 08-01 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

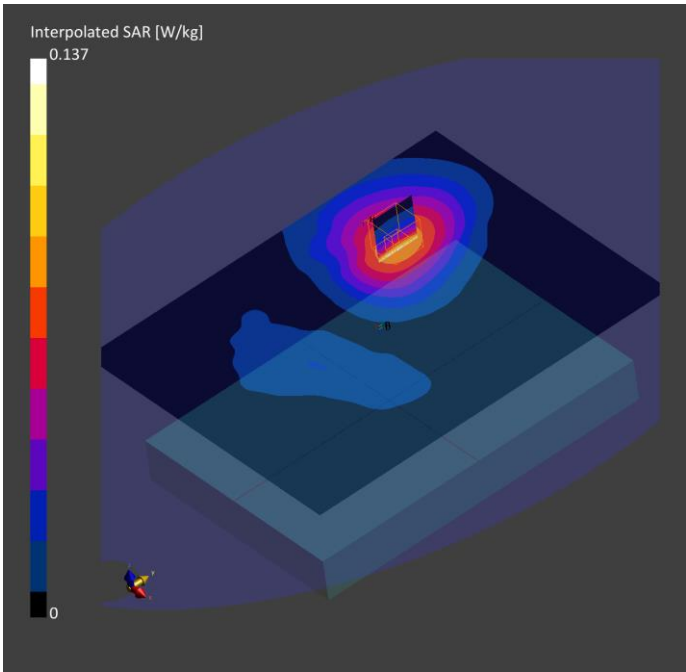
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02, 09:23	2022-08-02, 09:29
psSAR1g [W/kg]	0.077	0.079
psSAR10g [W/kg]	0.049	0.051
Power Drift [dB]	-0.03	0.26
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.8
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº7

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 5.00	Band 5, UTRA/FDD	WCDMA, 10011-CAB	846.6, 4233	6.12	0.943	42.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

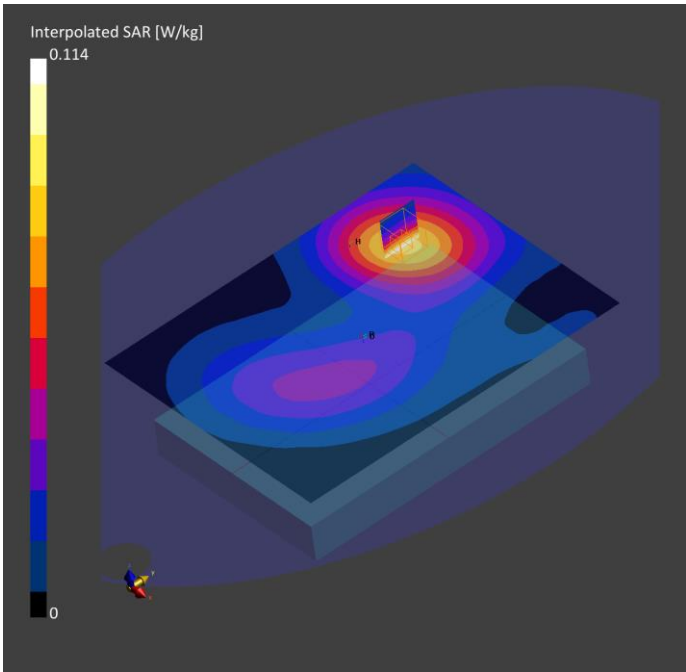
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28, 19:26	2022-07-28, 19:32
psSAR1g [W/kg]	0.079	0.083
psSAR10g [W/kg]	0.056	0.060
Power Drift [dB]	-0.01	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		90.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº8

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 4, E- UTRA/FDD	LTE-FDD, 10169-CAE	1732.5, 20175	5.28	1.32	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz_2022- 08-01 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

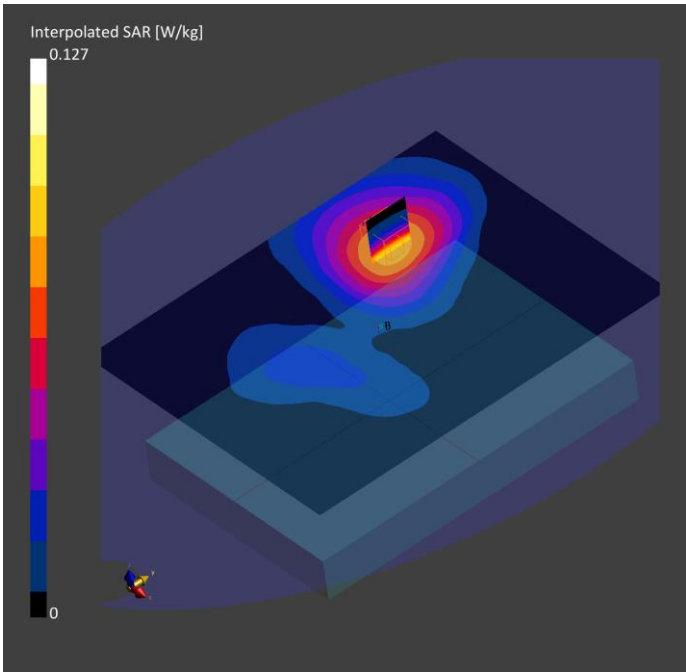
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02, 12:15	2022-08-02, 12:22
psSAR1g [W/kg]	0.079	0.080
psSAR10g [W/kg]	0.050	0.052
Power Drift [dB]	-0.02	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº9

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 5.00	Band 5, E- UTRA/FDD	LTE-FDD, 10175-CAG	844.0, 20600	6.12	0.938	42.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

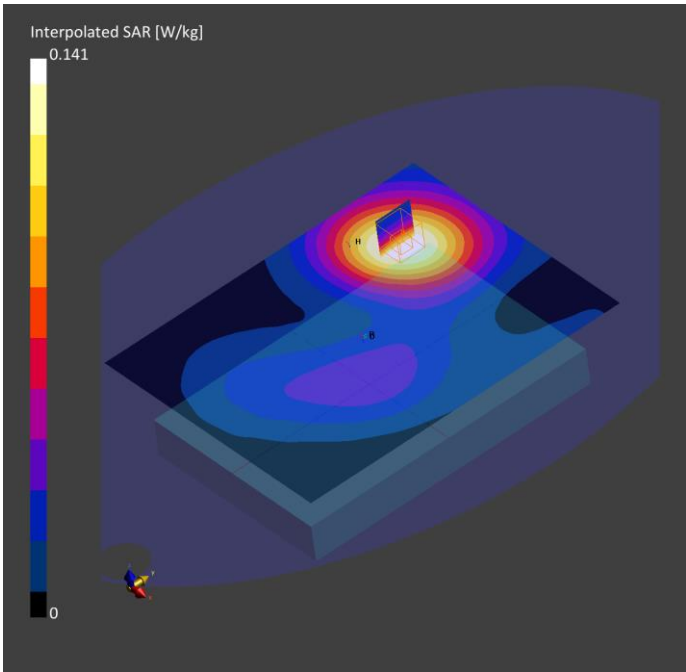
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28, 20:48	2022-07-28, 20:54
psSAR1g [W/kg]	0.099	0.102
psSAR10g [W/kg]	0.069	0.074
Power Drift [dB]	0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.5
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº10

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 7, E- UTRA/FDD	LTE-FDD, 10169-CAE	2510.0, 20850	7.27	1.88	38.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 08-03 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

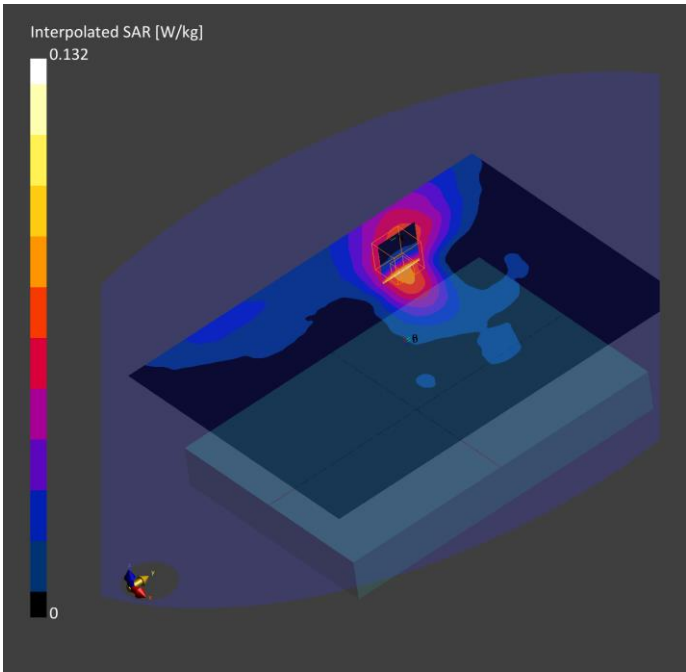
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03, 14:17	2022-08-03, 14:24
psSAR1g [W/kg]	0.068	0.067
psSAR10g [W/kg]	0.039	0.038
Power Drift [dB]	0.25	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.0
Dist 3dB Peak [mm]		17.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot N°11

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 10, E- UTRA/FDD	LTE-FDD, 10169-CAE	1720.0, 22250	5.28	1.31	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz_2022- 08-01 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

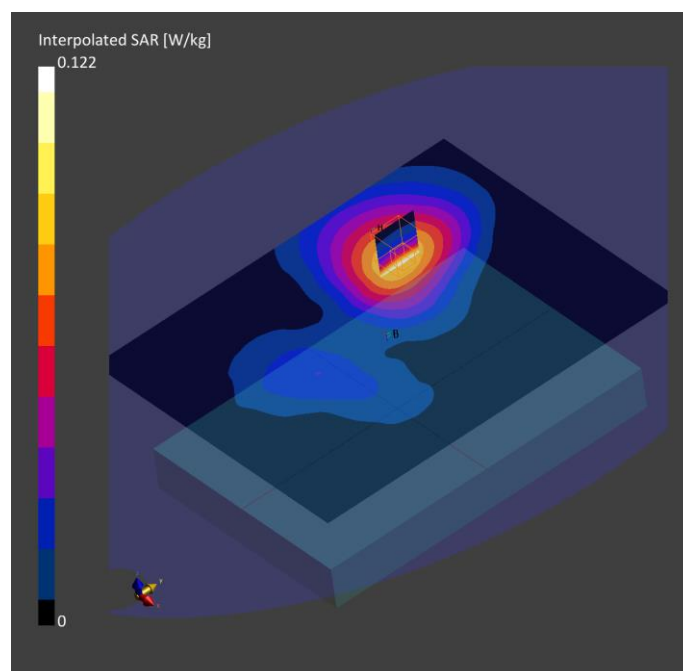
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02, 11:42	2022-08-02, 11:48
psSAR1g [W/kg]	0.080	0.077
psSAR10g [W/kg]	0.051	0.050
Power Drift [dB]	-0.05	-0.27
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº12

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	9.84	0.875	41.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2 - 2022-09-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

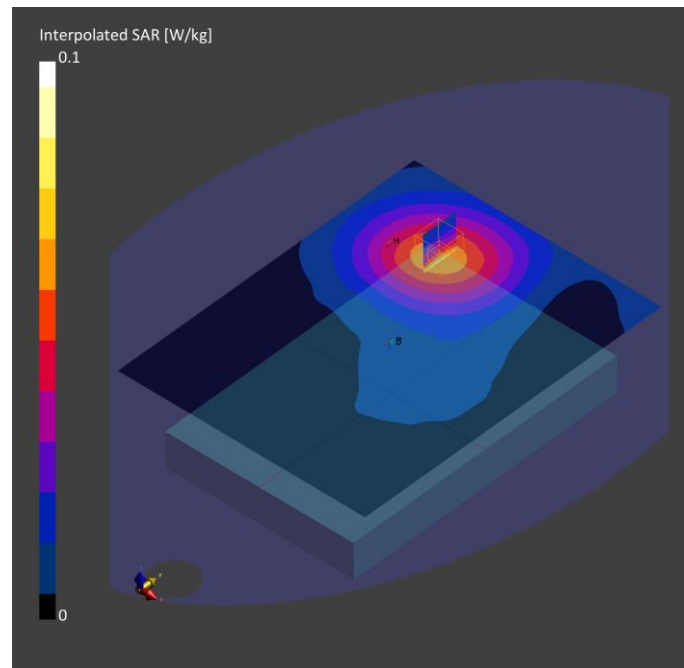
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-09-14, 17:00	2022-09-14, 17:06
psSAR1g [W/kg]	0.057	0.060
psSAR10g [W/kg]	0.041	0.044
Power Drift [dB]	-0.03	-0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº13

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	9.84	0.894	40.7

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2 - 2022-09-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

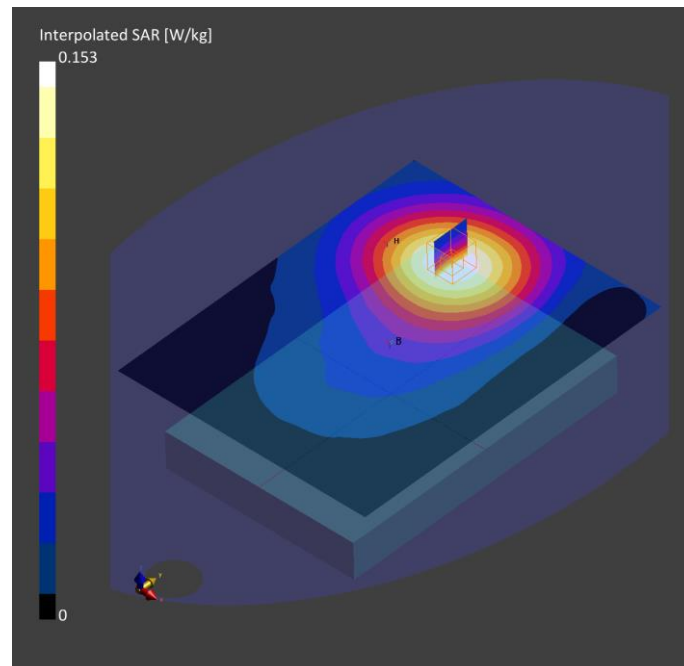
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-09-14, 17:15	2022-09-14, 17:21
psSAR1g [W/kg]	0.104	0.108
psSAR10g [W/kg]	0.074	0.080
Power Drift [dB]	0.02	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		89.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº14

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 25, E- UTRA/FDD	LTE-FDD, 10169-CAE	1905.0, 26590	5.28	1.37	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2000MHz - 2022- 08-29 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

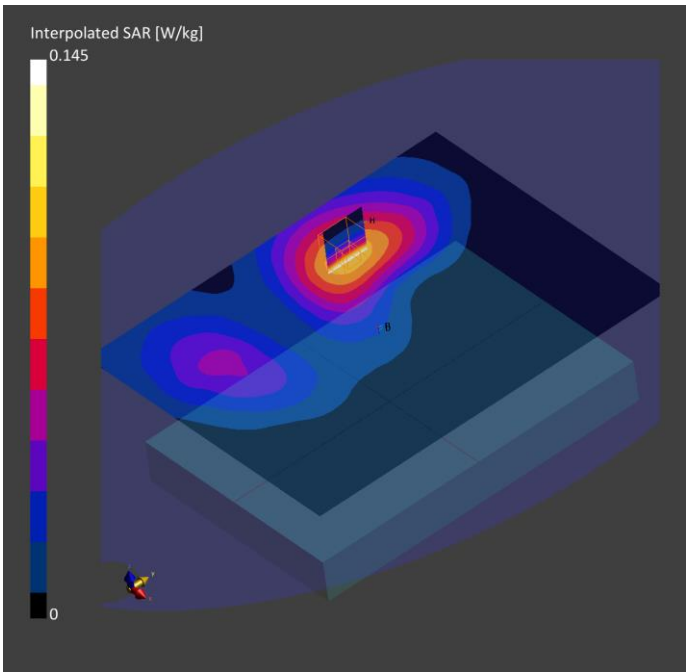
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-31, 09:13	2022-08-31, 09:19
psSAR1g [W/kg]	0.090	0.090
psSAR10g [W/kg]	0.057	0.057
Power Drift [dB]	0.06	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº15

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 5.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	6.12	0.923	42.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

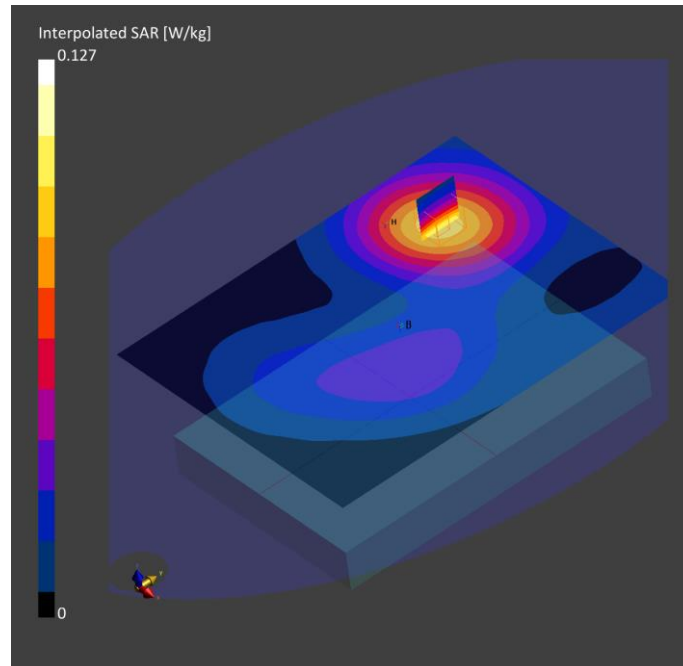
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29, 09:17	2022-07-29, 09:30
psSAR1g [W/kg]	0.090	0.094
psSAR10g [W/kg]	0.064	0.069
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		91.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº16

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 41, E- UTRA/TDD	LTE-TDD, 10435-AAF	2593.0, 40620	7.27	1.96	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 08-03 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

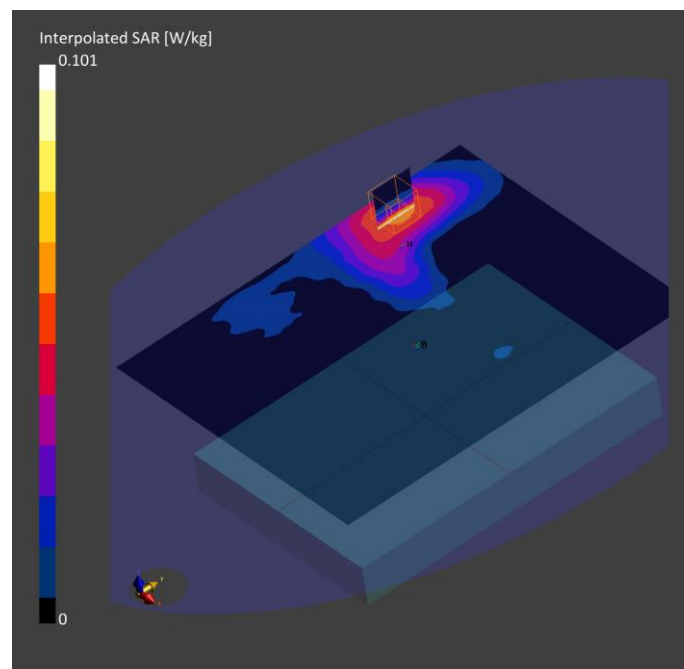
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-04, 14:08	2022-08-04, 14:15
psSAR1g [W/kg]	0.050	0.049
psSAR10g [W/kg]	0.029	0.027
Power Drift [dB]	0.21	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot N°17

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 66, E- UTRA/FDD	LTE-FDD, 10169-CAE	1720.0, 132072	5.28	1.31	39.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz_2022- 08-01 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

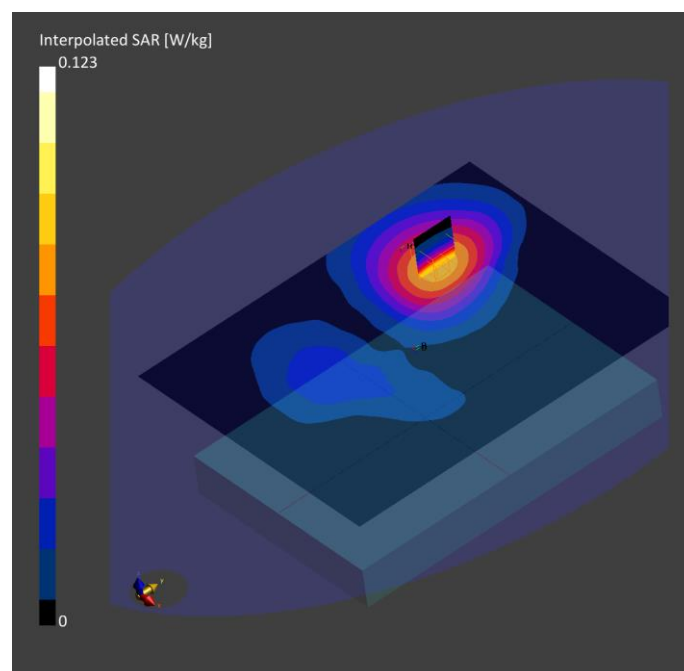
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02, 12:52	2022-08-02, 12:58
psSAR1g [W/kg]	0.077	0.078
psSAR10g [W/kg]	0.049	0.051
Power Drift [dB]	0.01	-0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		86.6
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº18

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 71, E-UTRA/FDD	LTE-FDD, 10169-CAE	673.0, 133222	9.84	0.860	42.2

Hardware Setup

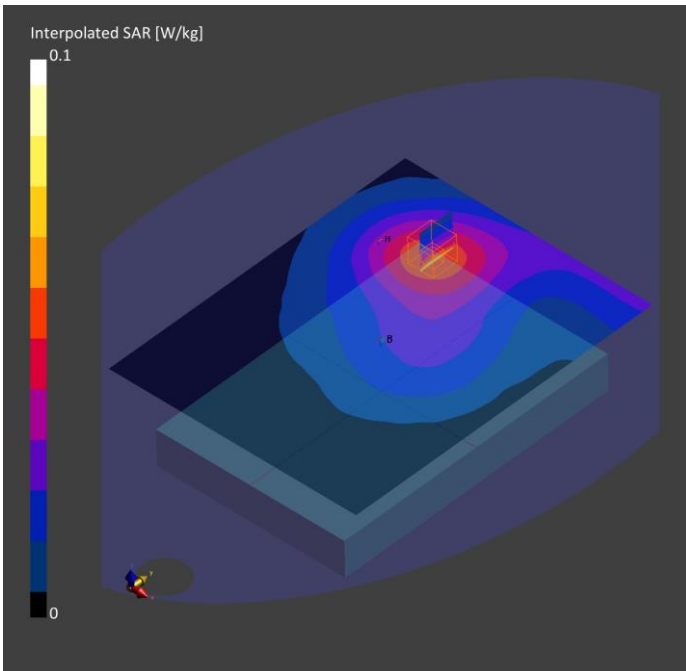
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2 - 2022-09-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0	Date	2022-09-14, 18:00	2022-09-14, 18:06
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5	psSAR1g [W/kg]	0.051	0.053
Sensor Surface [mm]	3.0	1.4	psSAR10g [W/kg]	0.037	0.040
Graded Grid	Yes	Yes	Power Drift [dB]	-0.01	-0.01
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	Y	Y	Scaling Factor [dB]		
Surface Detection	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		89.1
			Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº19

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 5, E- UTRA/FDD	LTE-FDD, 10175-CAG	844.0, 20600	9.61	0.928	41.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-10-18 , --	EX3DV4 - SN7461, 2022-08-25	DAE4 Sn1690, 2021-09-08

Scan Setup

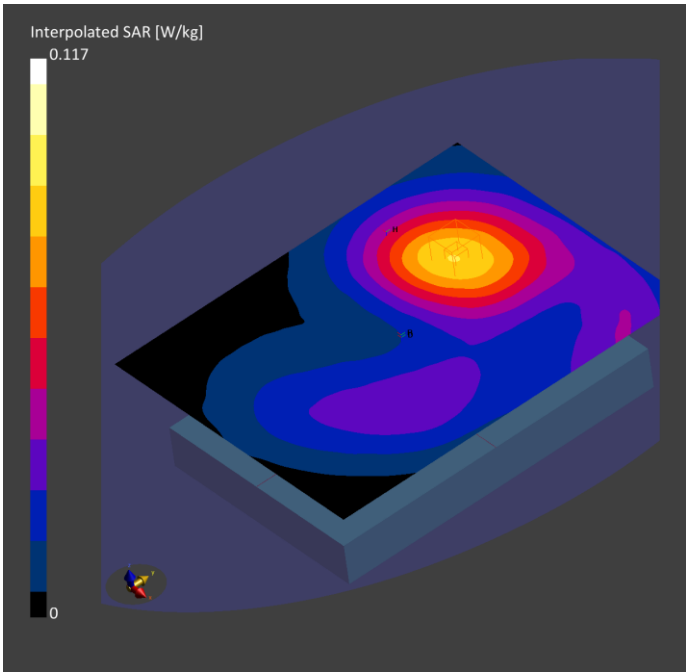
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-02, 13:46	2022-11-02, 13:52
psSAR1g [W/kg]	0.078	0.081
psSAR10g [W/kg]	0.055	0.060
Power Drift [dB]	-0.01	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº20

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 7, E- UTRA/FDD	LTE-FDD, 10169-CAE	2510.0, 20850	7.27	1.93	38.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

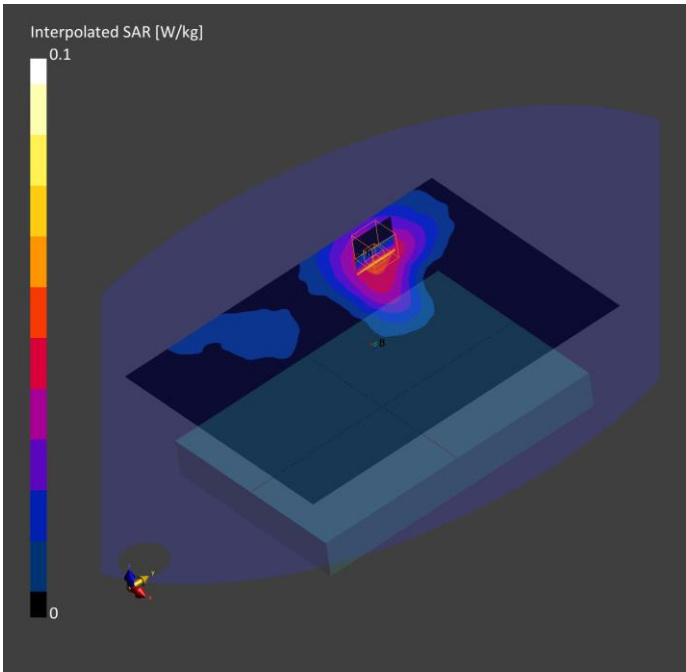
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-09-20, 09:08	2022-09-20, 09:19
psSAR1g [W/kg]	0.044	0.043
psSAR10g [W/kg]	0.026	0.024
Power Drift [dB]	0.24	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		79.0
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº21

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 41, E- UTRA/TDD	LTE-TDD, 10435-AAF	2590.5, 40595	7.27	2.01	38.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

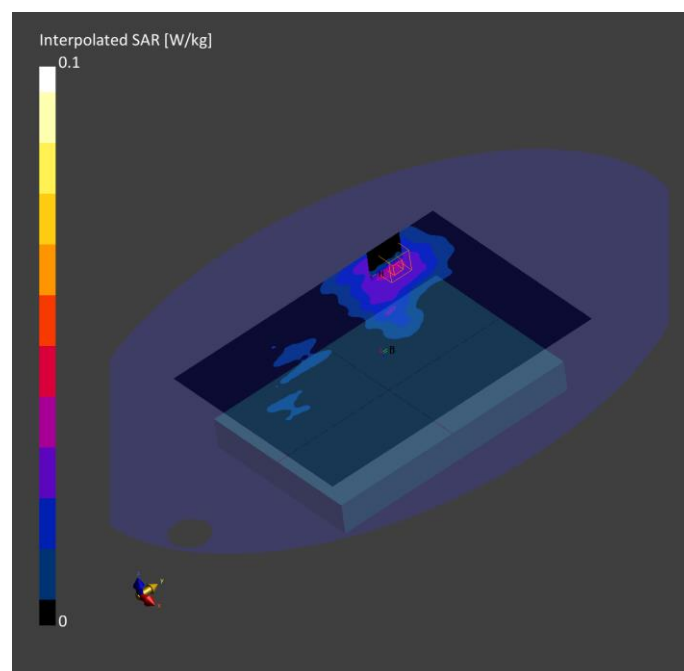
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-09-20, 10:51	2022-09-20, 11:00
psSAR1g [W/kg]	0.030	0.027
psSAR10g [W/kg]	0.017	0.013
Power Drift [dB]	0.35	0.28
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.1
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº22

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 66, E- UTRA/FDD	LTE-FDD, 10175-CAG	1750.1, 132373	8.25	1.37	39.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-10- 19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

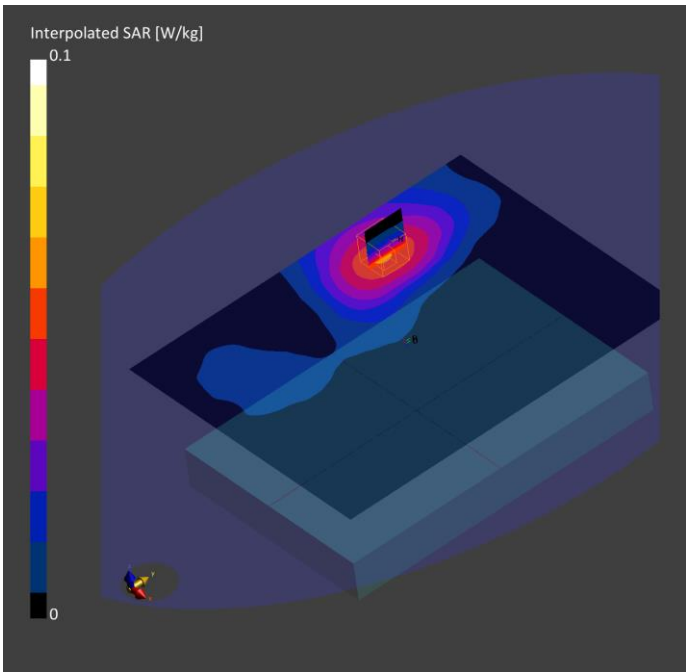
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-19, 21:04	2022-10-19, 21:10
psSAR1g [W/kg]	0.050	0.050
psSAR10g [W/kg]	0.032	0.032
Power Drift [dB]	0.04	0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		81.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº23

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band 66, E- UTRA/FDD	LTE-FDD, 10169-CAE	1745.1, 132323	8.25	1.37	39.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-10- 19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

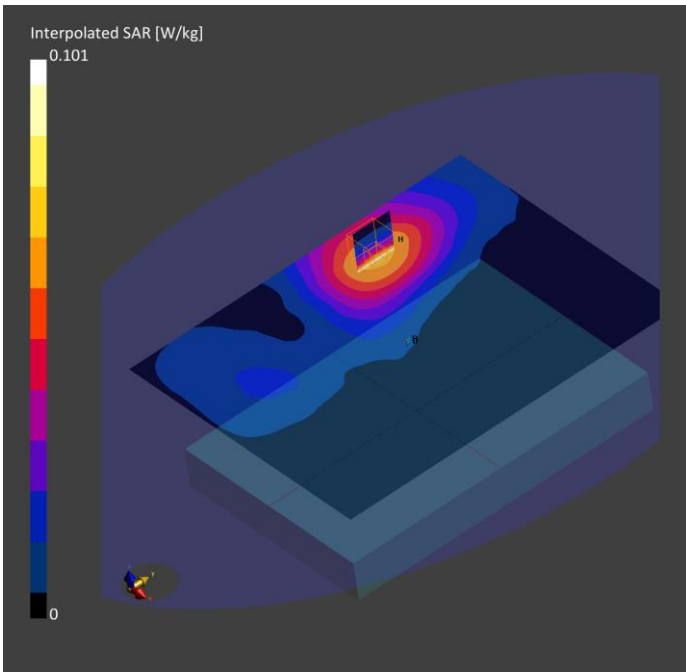
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-19, 21:34	2022-10-19, 21:40
psSAR1g [W/kg]	0.061	0.059
psSAR10g [W/kg]	0.039	0.037
Power Drift [dB]	0.02	0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.2
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº24

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n5	5G NR FR1 FDD, 10931-AAC	836.5, 167300	9.43	0.930	42.8

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-10-18 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

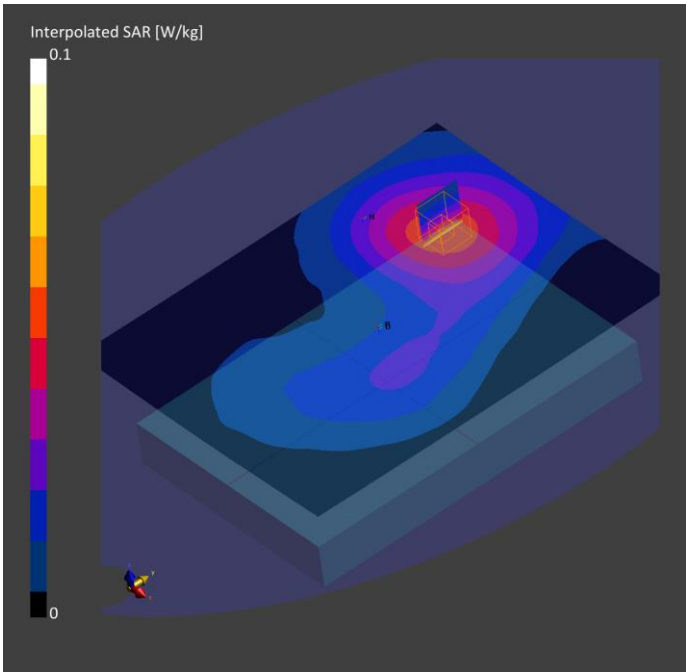
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	All points	All points
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-18, 12:36	2022-10-18, 12:49
psSAR1g [W/kg]	0.050	0.052
psSAR10g [W/kg]	0.035	0.038
Power Drift [dB]	-0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº25

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n7	5G NR FR1 FDD, 10931-AAB	2510.0, 502000	7.27	1.92	40.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

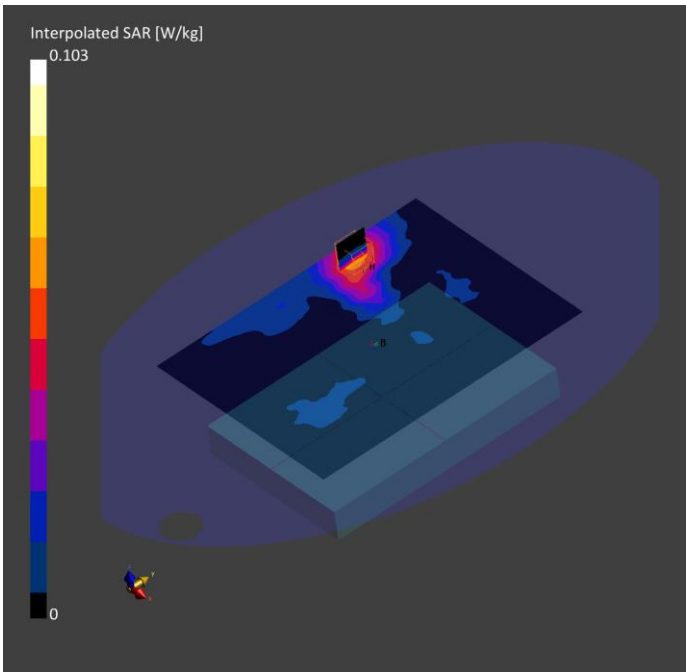
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-17, 14:40	2022-10-17, 14:47
psSAR1g [W/kg]	0.054	0.052
psSAR10g [W/kg]	0.031	0.028
Power Drift [dB]	-0.04	-0.24
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		78.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº26

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n25	5G NR FR1 FDD, 10931-AAC	1905.0, 381000	8.25	1.44	38.6

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-10- 19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

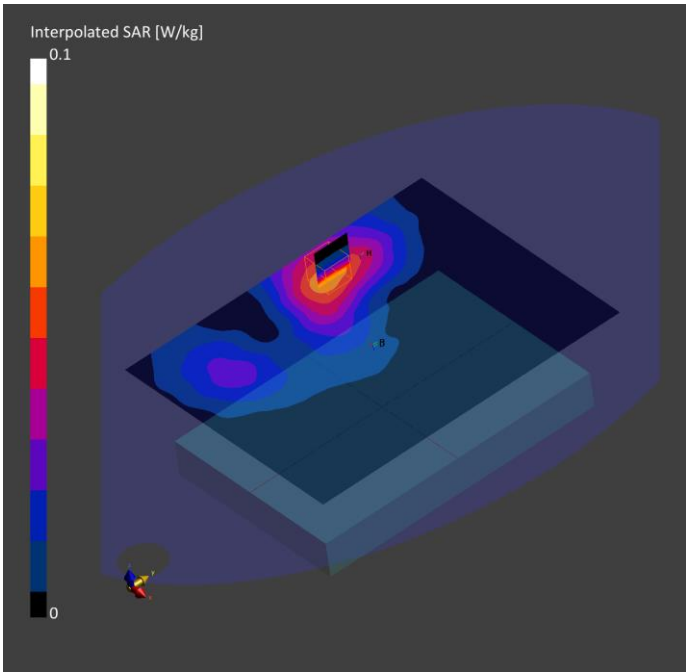
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-19, 19:55	2022-10-19, 20:01
psSAR1g [W/kg]	0.055	0.054
psSAR10g [W/kg]	0.034	0.033
Power Drift [dB]	-0.06	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		82.4
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº27

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n38	5G NR FR1 TDD, 10778-AAD	2595.0, 519000	7.27	2.01	40.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

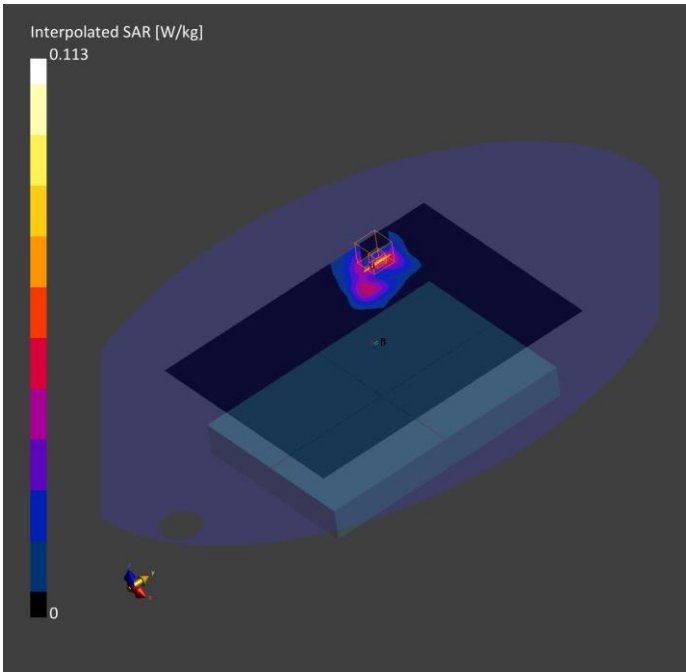
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-17, 18:56	2022-10-17, 19:04
psSAR1g [W/kg]	0.054	0.053
psSAR10g [W/kg]	0.028	0.025
Power Drift [dB]	-0.03	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.9
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº28

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n41	5G NR FR1 TDD, 10866-AAD	2593.0, 518601	7.27	2.01	40.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022- 09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

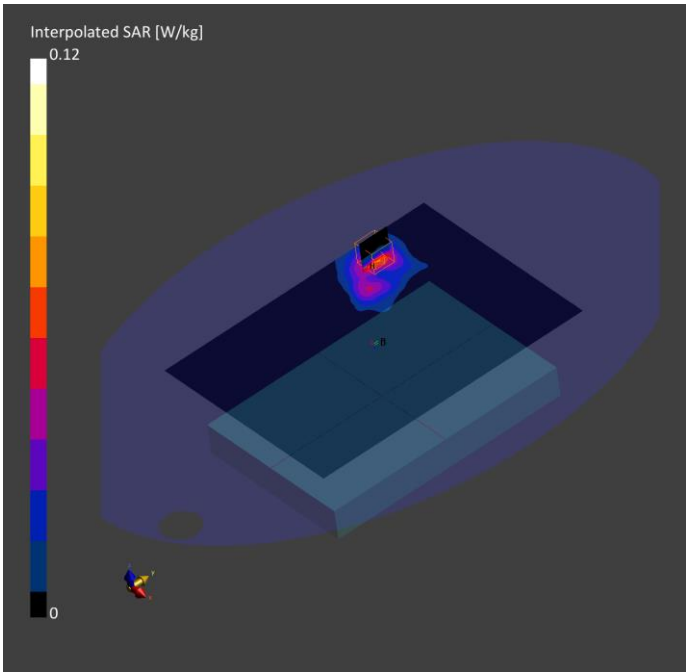
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-17, 20:12	2022-10-17, 20:20
psSAR1g [W/kg]	0.057	0.057
psSAR10g [W/kg]	0.030	0.028
Power Drift [dB]	0.04	-0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.4
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº29

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n66	5G NR FR1 FDD, 10934-AAC	1730.0, 346000	8.25	1.35	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-10- 19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

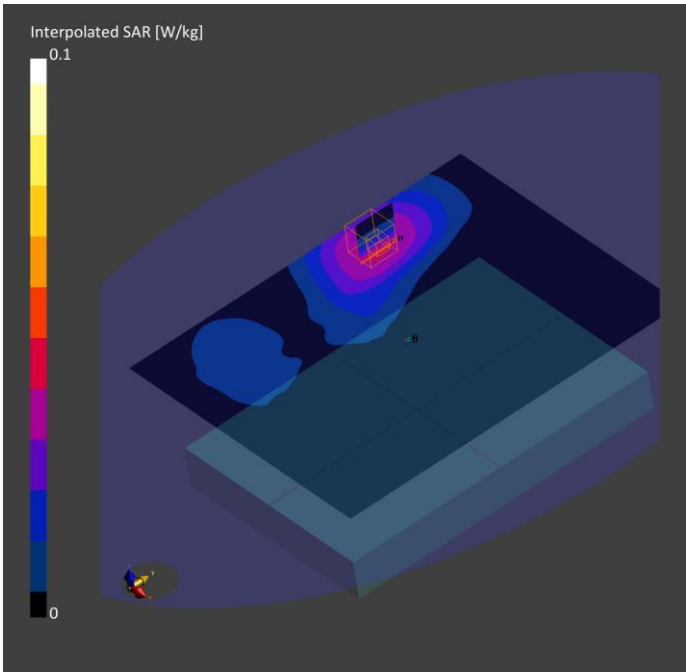
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-19, 17:02	2022-10-19, 17:09
psSAR1g [W/kg]	0.038	0.040
psSAR10g [W/kg]	0.025	0.025
Power Drift [dB]	0.18	0.08
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		84.5
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº30

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	, 40.00	Band n71	5G NR FR1 FDD, 10931-AAB	673.0, 134600	9.84	0.850	42.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2-2022-10-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn1690, 2021-09-08

Scan Setup

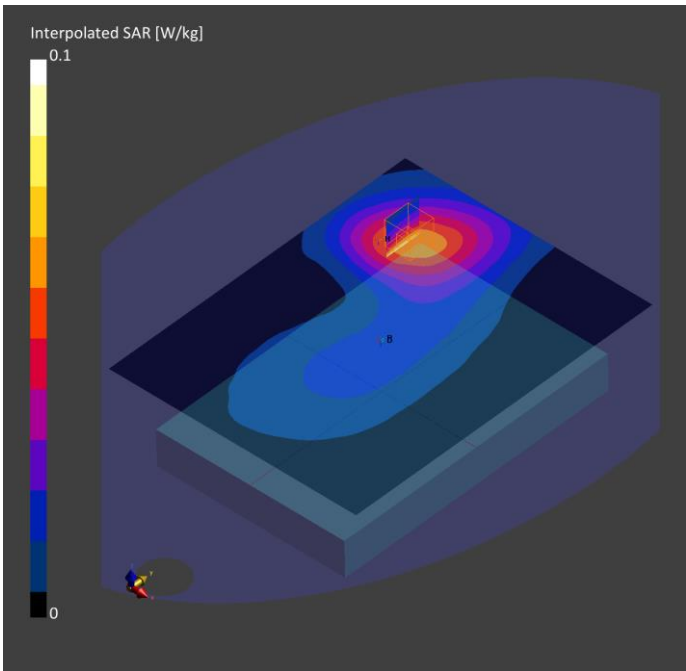
	Area Scan	Zoom Scan
Grid Extents [mm]	210.0 x 270.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-14, 11:27	2022-10-14, 11:33
psSAR1g [W/kg]	0.058	0.062
psSAR10g [W/kg]	0.041	0.046
Power Drift [dB]	-0.00	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.7
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Plot Nº31

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	240.0 x 160.0 x 30.0		TCU

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 0.00	Band n77	5G NR FR1 TDD, 10803-AAD	4150.0, 676666	6.18	3.41	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	5GHz-Head-2022-10-20 , --	EX3DV4 - SN7461, 2022-08-25	DAE4 Sn669, 2022-08-16

Scan Setup

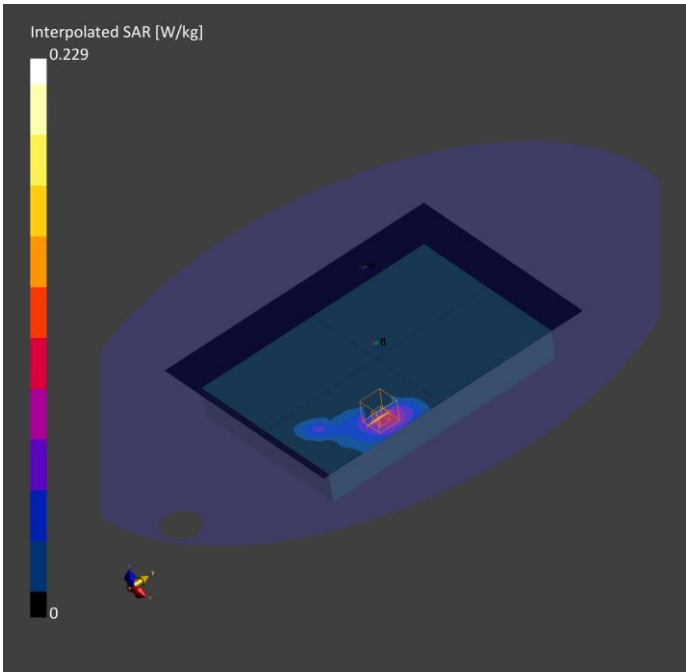
	Area Scan	Zoom Scan
Grid Extents [mm]	200.0 x 280.0	25.0 x 25.0 x 25.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	Y	Y
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-21, 09:39	2022-10-21, 09:49
psSAR1g [W/kg]	0.085	0.083
psSAR10g [W/kg]	0.039	0.036
Power Drift [dB]	0.00	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		68.1
Dist 3dB Peak [mm]		11.9

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Appendix D: System Validation Report

Validation results in 750 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	750.0, 0	9.84	0.890	41.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2 - 2022-09-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

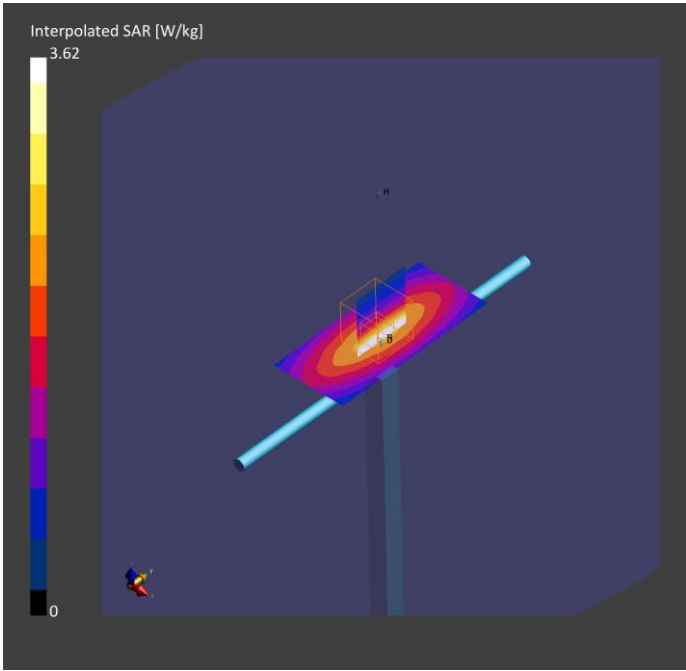
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-09-14, 14:10	2022-09-14, 14:15
psSAR1g [W/kg]	2.26	2.24
psSAR10g [W/kg]	1.51	1.46
Power Drift [dB]	0.00	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 750 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	750.0, 0	9.84	0.890	41.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL750V2-2022-10-13 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn1690, 2021-09-08

Scan Setup

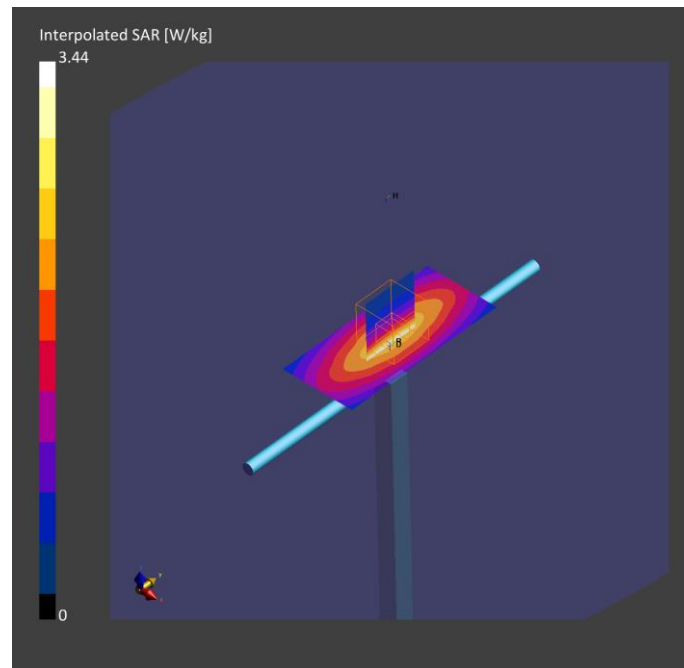
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-13, 17:23	2022-10-13, 17:28
psSAR1g [W/kg]	2.24	2.19
psSAR10g [W/kg]	1.49	1.44
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.3
Dist 3dB Peak [mm]		> 15.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	900.0, 0	6.12	1.00	42.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-07-27 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

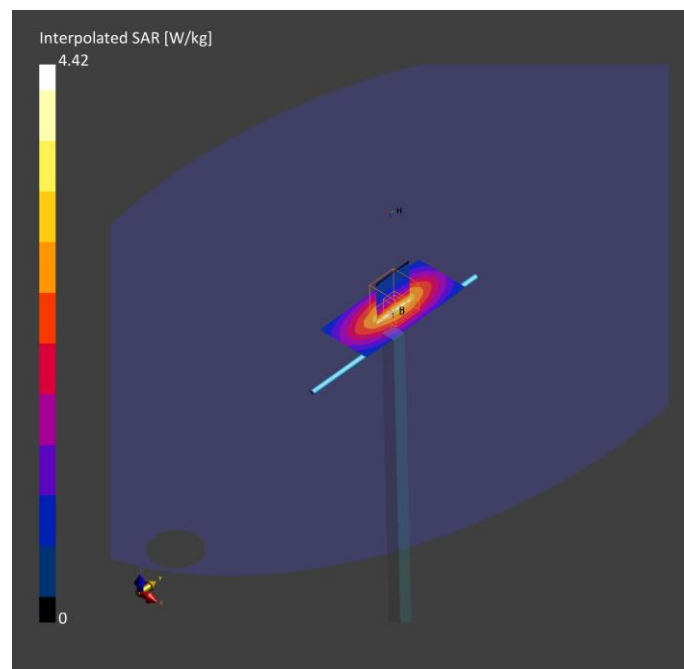
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-27, 14:58	2022-07-27, 15:03
psSAR1g [W/kg]	2.87	2.81
psSAR10g [W/kg]	1.86	1.80
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		88.0
Dist 3dB Peak [mm]		22.1

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	900.0, 0	9.43	1.00	42.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-10-18 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

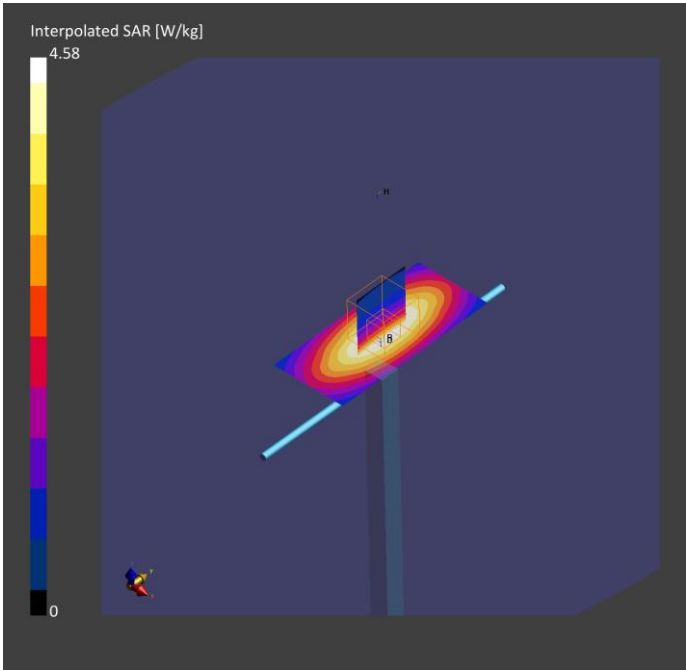
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-18, 10:40	2022-10-18, 10:45
psSAR1g [W/kg]	2.90	2.80
psSAR10g [W/kg]	1.89	1.78
Power Drift [dB]	-0.02	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		85.5
Dist 3dB Peak [mm]		15.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 900 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	900.0, 0	9.61	0.980	40.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HSL900V2 - 2022-11-02 , --	EX3DV4 - SN7461, 2022-08-25	DAE4 Sn1690, 2021-09-08

Scan Setup

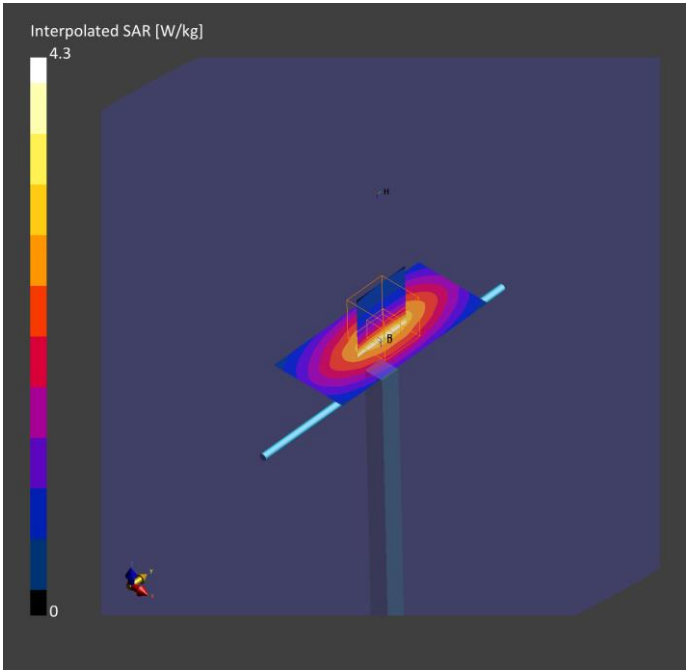
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-11-02, 10:25	2022-11-02, 10:30
psSAR1g [W/kg]	2.77	2.71
psSAR10g [W/kg]	1.80	1.73
Power Drift [dB]	-0.00	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		87.3
Dist 3dB Peak [mm]		16.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	5.28	1.39	39.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1700MHz_2022-08-01, --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

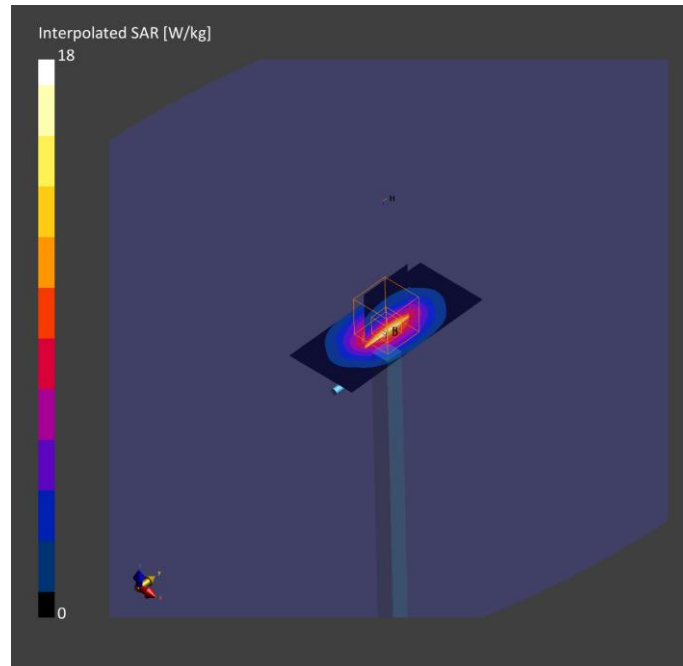
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-01, 10:06	2022-08-01, 10:12
psSAR1g [W/kg]	10.1	9.60
psSAR10g [W/kg]	5.30	5.00
Power Drift [dB]	0.01	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.7
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TKCMOD12N00, HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH	50.0 x 10.0 x 70.0	358845890064948	Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	5.28	1.37	39.4

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2000MHz - 2022- 08-29 , --	ES3DV3 - SN3052, 2021-09-22	DAE4 Sn1690, 2021-09-08

Scan Setup

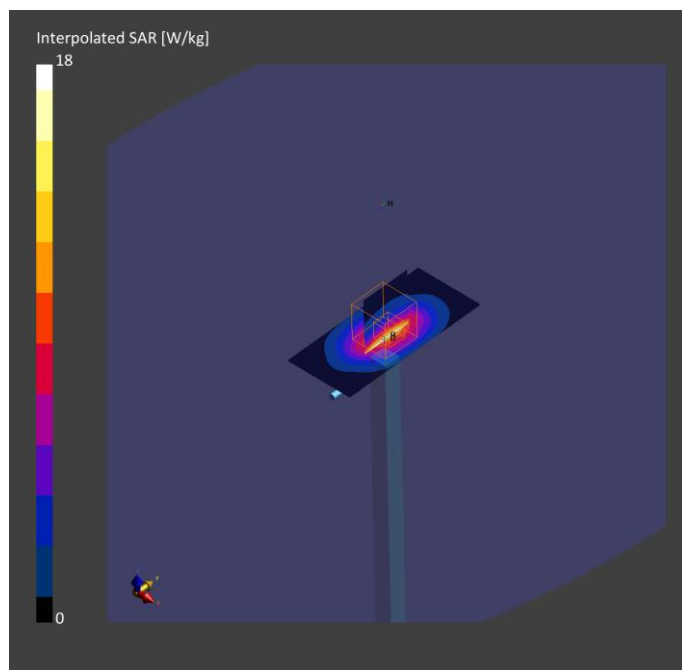
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-30, 09:54	2022-08-30, 09:59
psSAR1g [W/kg]	9.95	9.54
psSAR10g [W/kg]	5.26	4.97
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		83.6
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 1800 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	8.25	1.40	39.1

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1550-1950V3-1900MHz-2022-10-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

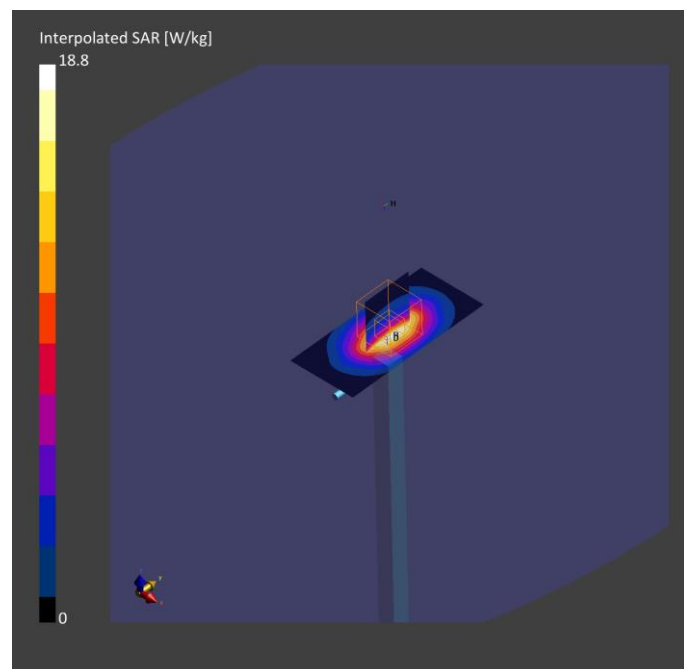
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-19, 10:37	2022-10-19, 10:42
psSAR1g [W/kg]	9.74	9.43
psSAR10g [W/kg]	5.13	4.86
Power Drift [dB]	-0.00	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		80.7
Dist 3dB Peak [mm]		10.8

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.27	1.97	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-08-03 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

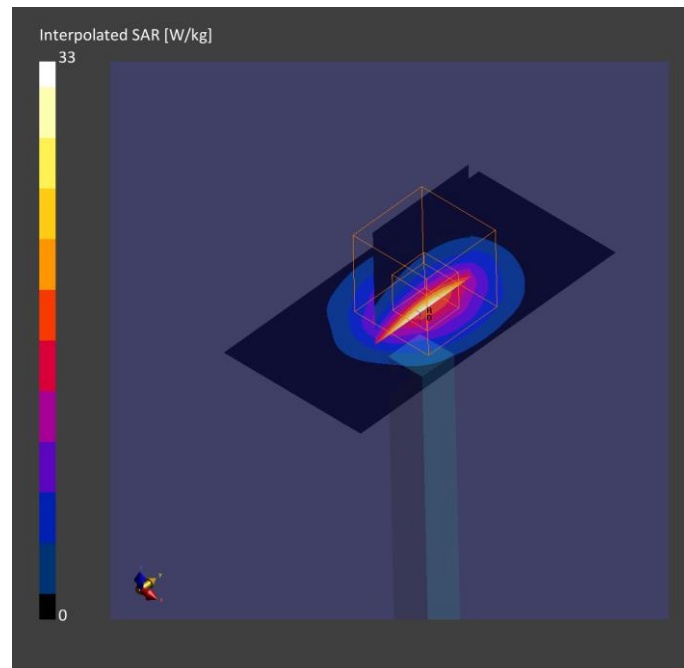
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03, 12:52	2022-08-03, 12:58
psSAR1g [W/kg]	15.0	14.4
psSAR10g [W/kg]	6.69	6.26
Power Drift [dB]	0.03	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.8
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.27	1.97	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-08-03 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

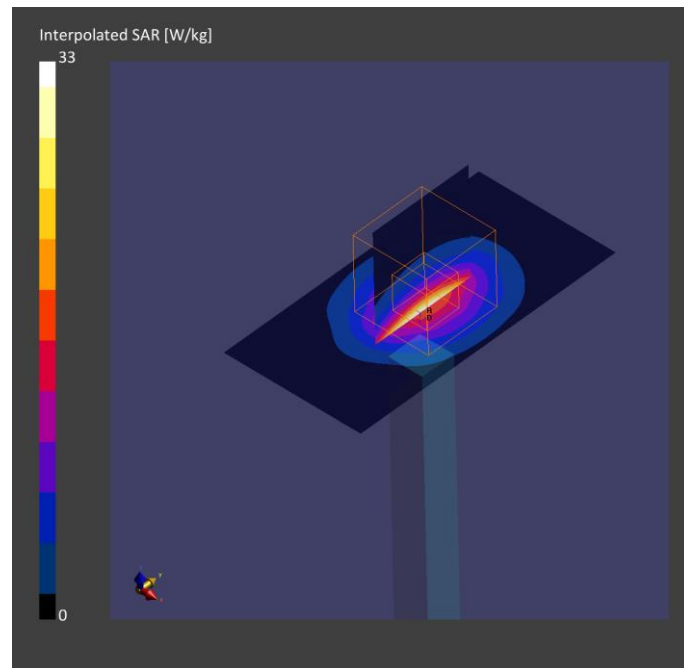
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03, 12:52	2022-08-03, 12:58
psSAR1g [W/kg]	15.0	14.4
psSAR10g [W/kg]	6.69	6.26
Power Drift [dB]	0.03	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.8
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.27	1.97	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-08-03 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2021-09-13

Scan Setup

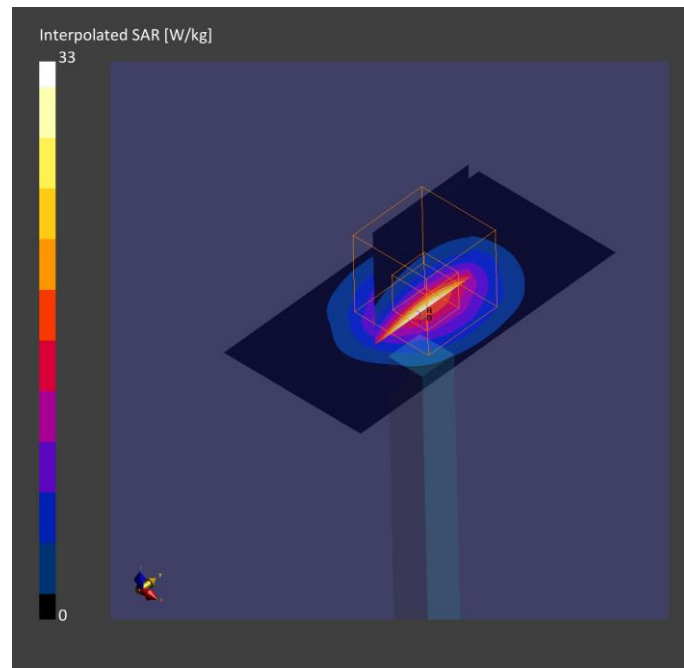
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03, 12:52	2022-08-03, 12:58
psSAR1g [W/kg]	15.0	14.4
psSAR10g [W/kg]	6.69	6.26
Power Drift [dB]	0.03	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		77.8
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 2600 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	2600.0, 0	7.27	2.02	40.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	HBBL1900-3800V3 - 2600MHz - 2022-09-19 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

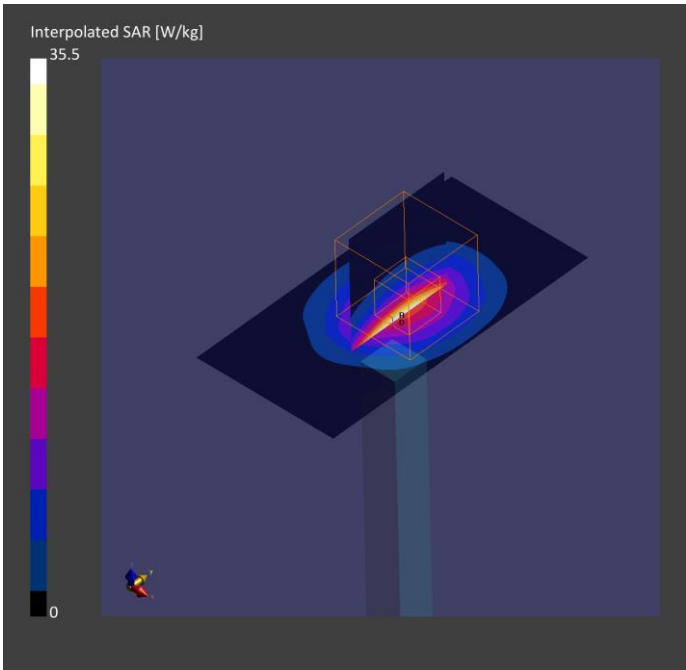
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-17, 12:08	2022-10-17, 12:38
psSAR1g [W/kg]	15.6	15.0
psSAR10g [W/kg]	7.10	6.46
Power Drift [dB]	-0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		74.8
Dist 3dB Peak [mm]		9.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		Extrapolated SAR deviation above 15%. Power drift exceeds warning threshold.
Error(s)		



Validation results in 3300 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	3300.0, 0	7.16	2.81	38.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	5GHz-Head-2022-10-20 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

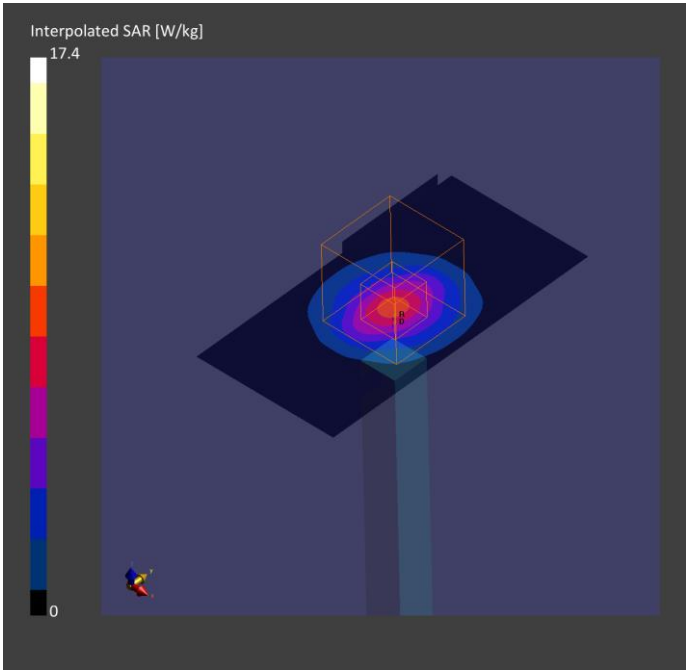
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-20, 13:52	2022-10-20, 13:58
psSAR1g [W/kg]	6.78	6.61
psSAR10g [W/kg]	2.64	2.52
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.4
Dist 3dB Peak [mm]		8.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 3500 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	3300.0, 0	7.16	2.81	38.9

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	5GHz-Head-2022-10-20 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

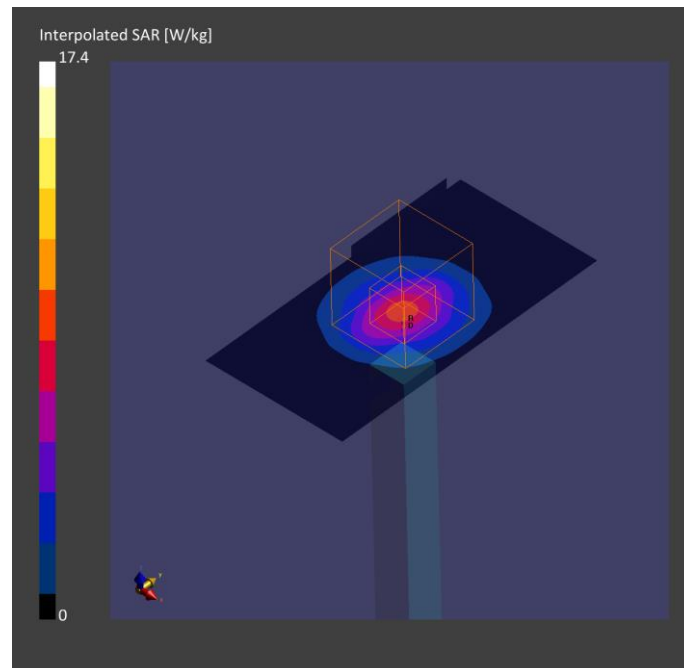
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-20, 13:52	2022-10-20, 13:58
psSAR1g [W/kg]	6.78	6.61
psSAR10g [W/kg]	2.64	2.52
Power Drift [dB]	0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		76.4
Dist 3dB Peak [mm]		8.2

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 3700 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	3700.0, 0	7.0	3.08	38.2

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	5GHz-Head-2022-10-20 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

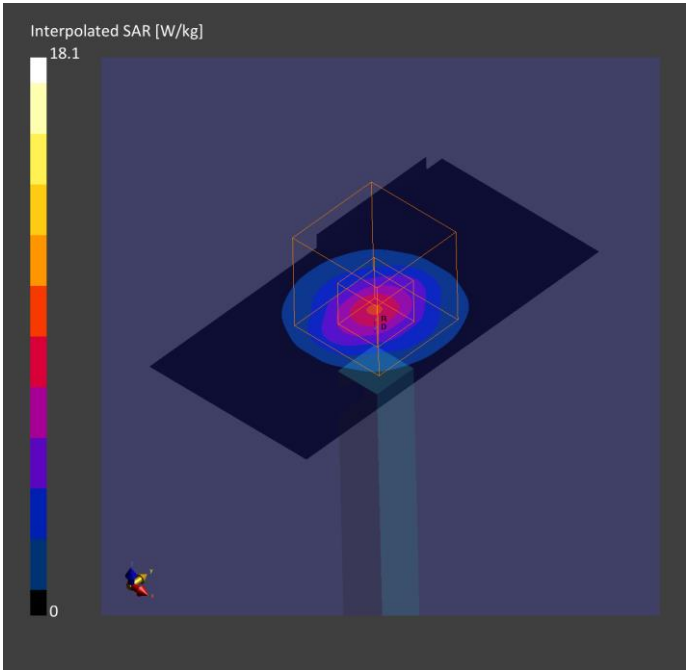
	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-20, 15:34	2022-10-20, 15:41
psSAR1g [W/kg]	6.33	6.25
psSAR10g [W/kg]	2.32	2.27
Power Drift [dB]	0.01	0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		73.1
Dist 3dB Peak [mm]		8.5

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		



Validation results in 4200 MHz Band for Head TSL

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
TCAM2, HARMAN	50.0 x 10.0 x 30.0		Dipole

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	4200.0, 0	6.1	3.47	38.0

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI V4.0 (20deg probe tilt) - 1060	5GHz-Head-2022-10-20 , --	EX3DV4 - SN7461, 2020-08-28	DAE4 Sn669, 2022-08-16

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	25.0 x 25.0 x 25.0
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	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-10-20, 16:28	2022-10-20, 16:37
psSAR1g [W/kg]	6.44	6.56
psSAR10g [W/kg]	2.19	2.21
Power Drift [dB]	-0.01	0.01
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		68.1
Dist 3dB Peak [mm]		8.0

Warning(s) / Error(s)

Details	Area Scan	Zoom Scan
Warning(s)		
Error(s)		

