

Appendix B: Tissue Stimulating Liquids, System Checks and System Validation

B.1. SAR System Check

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Section B.4.

Table 1 System Check Results (SAR)

System	Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Tissue Temp (°C)	Input Power (dBm)	Verification Source SN	Probe SN	DAE SN	Measured 1g SAR (W/Kg)	1W Target 1g SAR (W/Kg)	1W Normalized 1g SAR (W/Kg)	1g SAR Deviation	Measured 10g SAR (W/Kg)	1W Target 10g SAR (W/Kg)	1W Normalized 10g SAR (W/Kg)	10g SAR Deviation	Measured APD 4 cm ² (W/m ²)	APD 4cm ² Deviation
Gamma	13	Head	3/15/2026	20.9	20.3	24.5	1041	7872	1843	0.138	0.457	0.490	7.14%	0.085	0.296	0.302	1.89%	N/A	N/A
Delta	750	Head	3/2/2026	22.4	19.2	17	1235	7853	1844	0.419	8.690	8.360	-3.80%	0.277	5.690	5.527	-2.87%	N/A	N/A
Epsilon	750	Head	3/2/2026	21.1	20.2	17	1235	7971	1934	0.427	8.690	8.520	-1.96%	0.284	5.690	5.667	-0.41%	N/A	N/A
Epsilon	750	Head	3/4/2026	21.9	20.9	17	1235	7971	1934	0.420	8.690	8.380	-3.57%	0.278	5.690	5.547	-2.52%	N/A	N/A
Delta	750	Head	3/13/2026	24.3	20.9	17	1235	7853	1844	0.420	8.690	8.380	-3.57%	0.278	5.690	5.547	-2.52%	N/A	N/A
Delta	750	Head	3/16/2026	23.9	20.5	17	1235	7853	1844	0.412	8.690	8.220	-5.40%	0.271	5.690	5.407	-4.97%	N/A	N/A
Zeta	750	Head	3/16/2026	23.5	20.5	17	1235	7969	1933	0.414	8.690	8.260	-4.94%	0.274	5.690	5.467	-3.92%	N/A	N/A
Delta	750	Head	3/18/2026	24.0	22.2	17	1235	7853	1844	0.424	8.690	8.460	-2.65%	0.278	5.690	5.547	-2.52%	N/A	N/A
Zeta	750	Head	3/18/2026	24.7	21.8	17	1235	7969	1933	0.412	8.690	8.220	-5.40%	0.271	5.690	5.407	-4.97%	N/A	N/A
Gamma	750	Head	3/20/2026	24.1	22.1	17	1235	7872	1843	0.422	8.690	8.420	-3.11%	0.281	5.690	5.607	-1.46%	N/A	N/A
Delta	835	Head	3/2/2026	22.4	19.2	17	4d311	7853	1844	0.485	9.820	9.677	-1.46%	0.318	6.370	6.345	-0.39%	N/A	N/A
Gamma	835	Head	3/2/2026	22.0	19.8	17	4d311	7872	1843	0.502	9.820	10.016	2.00%	0.328	6.370	6.544	2.74%	N/A	N/A
Zeta	835	Head	3/13/2026	24.3	22.1	17	4d311	7969	1933	0.494	9.820	9.857	0.37%	0.324	6.370	6.465	1.49%	N/A	N/A
Delta	835	Head	3/16/2026	23.9	20.5	17	4d311	7853	1844	0.483	9.820	9.637	-1.86%	0.317	6.370	6.325	-0.71%	N/A	N/A
Delta	835	Head	3/18/2026	24.0	22.2	17	4d311	7853	1844	0.483	9.820	9.637	-1.86%	0.317	6.370	6.325	-0.71%	N/A	N/A
Gamma	835	Head	3/20/2026	24.1	22.1	17	4d311	7872	1843	0.491	9.820	9.797	-0.24%	0.323	6.370	6.445	1.17%	N/A	N/A
Delta	835	Head	4/10/2026	22.1	20.9	17	4d311	7853	1844	0.504	9.820	10.056	2.40%	0.330	6.370	6.584	3.37%	N/A	N/A
Zeta	1640	Head	4/8/2026	22.1	20.6	17	356	7969	1933	1.690	34.200	33.720	-1.40%	0.918	18.600	18.317	-1.52%	N/A	N/A
Beta	1750	Head	3/3/2026	24.5	22.0	17	1205	7857	1838	1.820	36.500	36.314	-0.51%	0.971	19.200	19.374	0.91%	N/A	N/A
Beta	1750	Head	3/6/2026	22.7	21.1	17	1205	7969	1933	1.810	36.500	36.114	-1.06%	0.960	19.200	19.155	-0.24%	N/A	N/A
Zeta	1750	Head	3/9/2026	23.7	23.0	17	1205	7969	1933	1.830	36.500	36.513	0.04%	0.976	19.200	19.474	1.43%	N/A	N/A
Beta	1750	Head	3/11/2026	21.7	20.7	17	1205	7857	1838	1.910	36.500	38.110	4.41%	1.030	19.200	20.551	7.04%	N/A	N/A
Beta	1750	Head	3/16/2026	22.2	19.6	17	1205	7857	1838	1.840	36.500	36.713	0.58%	0.986	19.200	19.673	2.47%	N/A	N/A
Beta	1750	Head	3/18/2026	22.6	20.5	17	1205	7857	1838	1.880	36.500	37.511	2.77%	1.010	19.200	20.152	4.96%	N/A	N/A
Zeta	1900	Head	3/6/2026	22.7	21.1	17	5d252	7969	1933	1.940	39.800	38.708	-2.74%	1.010	21.000	20.152	-4.04%	N/A	N/A
Beta	1900	Head	3/9/2026	23.7	23.0	17	5d252	7969	1933	1.980	39.800	39.506	-0.74%	1.030	21.000	20.551	-2.14%	N/A	N/A
Beta	1900	Head	3/13/2026	22.2	19.2	17	5d252	7857	1838	2.060	39.800	41.102	3.27%	1.080	21.000	21.549	2.61%	N/A	N/A
Beta	1900	Head	3/16/2026	22.2	19.6	17	5d252	7857	1838	2.010	39.800	40.105	0.77%	1.060	21.000	21.150	0.71%	N/A	N/A
Beta	1900	Head	3/18/2026	22.6	20.5	17	5d252	7857	1838	2.040	39.800	40.703	2.27%	1.080	21.000	21.549	2.61%	N/A	N/A
Gamma	2300	Head	3/4/2026	22.4	20.4	17	1139	7872	1843	2.400	49.000	47.886	-2.27%	1.160	23.700	23.145	-2.34%	N/A	N/A
Gamma	2300	Head	3/6/2026	22.2	20.8	17	1139	7872	1843	2.430	49.000	48.485	-1.05%	1.160	23.700	23.145	-2.34%	N/A	N/A
Gamma	2300	Head	3/11/2026	21.9	21.9	17	1139	7872	1843	2.420	49.000	48.285	-1.46%	1.170	23.700	23.345	-1.50%	N/A	N/A
Gamma	2300	Head	3/16/2026	22.4	20.7	17	1139	7872	1843	2.430	49.000	48.485	-1.05%	1.180	23.700	23.544	-0.66%	N/A	N/A
Zeta	2450	Head	3/20/2026	22.5	20.7	17	1112	7969	1933	2.430	50.600	48.485	-4.18%	1.150	23.700	22.946	-3.18%	N/A	N/A
Zeta	2450	Head	3/23/2026	20.5	19.9	17	1112	7969	1933	2.520	50.600	50.281	-0.63%	1.190	23.700	23.744	0.18%	N/A	N/A
Delta	2450	Head	3/26/2026	21.8	20.2	17	1112	7853	1844	2.470	50.600	49.283	-2.60%	1.160	23.700	23.145	-2.34%	N/A	N/A
Zeta	2450	Head	4/16/2026	22.8	21.4	17	1112	7969	1933	2.480	50.600	49.483	-2.21%	1.170	23.700	23.345	-1.50%	N/A	N/A
Delta	2600	Head	3/6/2026	22.7	22.4	17	1215	7853	1844	2.610	55.300	52.076	-5.83%	1.170	24.900	23.345	-6.25%	N/A	N/A
Delta	2600	Head	3/9/2026	23.9	21.9	17	1215	7853	1844	2.560	55.300	51.079	-7.63%	1.160	24.900	23.145	-7.05%	N/A	N/A
Delta	2600	Head	3/11/2026	23.2	21.1	17	1215	7853	1844	2.650	55.300	52.874	-4.39%	1.200	24.900	23.943	-3.84%	N/A	N/A
Gamma	2600	Head	3/13/2026	22.8	21.7	17	1215	7872	1843	2.750	55.300	54.870	-0.78%	1.240	24.900	24.741	-0.64%	N/A	N/A
Zeta	2600	Head	3/30/2026	20.3	19.8	17	1215	7969	1933	2.730	55.300	54.471	-1.50%	1.230	24.900	24.542	-1.44%	N/A	N/A
Epsilon	3500	Head	3/9/2026	22.6	22.4	17	1154	7971	1934	3.010	65.100	60.057	-7.75%	1.160	24.600	23.145	-5.91%	N/A	N/A
Epsilon	3500	Head	3/11/2026	21.9	21.1	17	1154	7971	1934	3.150	65.100	62.851	-3.46%	1.210	24.600	24.143	-1.86%	N/A	N/A
Epsilon	3500	Head	3/13/2026	22.6	21.3	17	1154	7971	1934	3.060	65.100	61.055	-6.21%	1.160	24.600	23.145	-5.91%	N/A	N/A
Delta	3500	Head	4/8/2026	22.1	21.3	17	1154	7853	1844	3.240	65.100	64.646	-0.70%	1.230	24.600	24.542	-0.24%	N/A	N/A
Epsilon	3700	Head	3/9/2026	22.6	22.4	17	1130	7971	1934	3.170	66.600	63.250	-5.03%	1.180	24.500	23.544	-3.90%	N/A	N/A
Epsilon	3700	Head	3/11/2026	21.9	21.1	17	1130	7971	1934	3.180	66.600	63.449	-4.73%	1.200	24.500	23.943	-2.27%	N/A	N/A
Epsilon	3700	Head	3/13/2026	22.6	21.3	17	1130	7971	1934	3.420	66.600	68.238	2.46%	1.270	24.500	25.340	3.43%	N/A	N/A
Delta	3700	Head	4/8/2026	22.1	21.3	17	1130	7853	1844	3.380	66.600	67.440	1.26%	1.260	24.500	25.140	2.61%	N/A	N/A
Epsilon	3900	Head	3/13/2026	22.6	21.3	17	1101	7971	1934	3.200	70.200	63.848	-9.05%	1.110	24.600	22.147	-9.97%	N/A	N/A
Delta	3900	Head	4/8/2026	22.1	21.3	17	1101	7853	1844	3.400	70.200	67.839	-3.36%	1.200	24.600	23.943	-2.67%	N/A	N/A
Beta	5250	Head	3/20/2026	23.5	21.7	17	1396	7857	1838	4.180	77.900	83.402	7.06%	1.210	22.400	24.143	7.78%	N/A	N/A
Beta	5600	Head	3/20/2026	23.5	21.1	17	1396	7857	1838	4.290	81.100	85.597	5.54%	1.210	23.300	24.143	3.62%	N/A	N/A
Beta	5750	Head	3/20/2026	23.5	21.1	17	1396	7857	1838	4.040	80.100	80.609	0.63%	1.160	22.800	23.145	1.51%	N/A	N/A
Beta	5850	Head	3/20/2026	23.5	21.1	17	1396	7857	1838	4.160	76.900	83.003	7.94%	1.180	22.000	23.544	7.02%	N/A	N/A
Beta	6500	Head	3/25/2026	22.2	21.7	10	1104	7857	1838	3.060	298.000	306.000	2.68%	0.559	55.000	55.900	1.64%	13.500	0.75%
Beta	6500	Head	4/1/2026	22.2	21.5	10	1104	7857	1838	2.740	298.000	274.000	-8.05%	0.518	55.000	51.800	-5.82%	12.500	-6.72%
Beta	6500	Head	4/14/2026	23.0	22.3	10	1104	7857	1838	2.810	298.000	281.000	-5.70%	0.523	55.000	52.300	-4.91%	12.700	-5.22%
Beta	8000	Head	4/14/2026	23.0	22.3	10	1016	7857	1838	2.550	273.000	255.000	-6.59%	0.440	46.100	44.000	-4.56%	10.600	-6.19%

B.2. Power Density System Check

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Table 2 System Check Results (Power Density)

Date	Probe SN	Frequency (MHz)	Source SN	Prad (mW)	Measured Normal psPD (W/m ²)	Target Normal psPD (W/m ²)	Deviation Normal psPD (dB)	Measured Total psPD (W/m ²)	Target Total psPD (W/m ²)	Deviation Total psPD (dB)
4/17/2026	9690	10000.0	1074	1.46	0.832	0.838	-0.03	0.916	0.842	0.37

B.3. Dielectric Parameters of the TSL

Table 3 SAR Tissue Dielectric Parameters

Date	Tissue Type	Liquid Temp (°C)	Frequency (MHz)	Conductivity Measured (σ)	Conductivity Target (σ)	Deviation	Permittivity measured (εr)	Permittivity Target (εr)	Deviation
3/2/2026	Head	19.4	650	0.81	0.89	-8.26%	45.4	42.5	6.88%
3/2/2026	Head	19.4	700	0.83	0.89	-6.72%	45.2	42.2	7.17%
3/2/2026	Head	19.4	750	0.85	0.89	-5.15%	45.0	41.9	7.36%
3/2/2026	Head	19.4	800	0.86	0.90	-3.62%	44.9	41.7	7.75%
3/2/2026	Head	19.4	850	0.88	0.92	-3.45%	44.8	41.5	7.92%
3/2/2026	Head	19.4	900	0.91	0.97	-6.86%	44.6	41.5	7.42%
3/2/2026	Head	19.4	950	0.92	0.99	-7.26%	44.5	41.4	7.41%
3/2/2026	Head	20.2	650	0.82	0.89	-7.63%	45.4	42.5	6.89%
3/2/2026	Head	20.2	700	0.84	0.89	-6.07%	45.2	42.2	7.17%
3/2/2026	Head	20.2	750	0.85	0.89	-4.57%	45.0	41.9	7.37%
3/2/2026	Head	20.2	800	0.87	0.90	-3.02%	44.9	41.7	7.74%
3/2/2026	Head	20.2	850	0.89	0.92	-2.89%	44.8	41.5	7.96%
3/2/2026	Head	20.2	900	0.91	0.97	-6.15%	44.6	41.5	7.41%
3/2/2026	Head	20.2	950	0.93	0.99	-6.78%	44.5	41.4	7.38%
3/2/2026	Head	20	650	0.81	0.89	-8.67%	44.9	42.5	5.65%
3/2/2026	Head	20	700	0.83	0.89	-7.10%	44.7	42.2	5.92%
3/2/2026	Head	20	750	0.84	0.89	-5.99%	44.5	41.9	6.10%
3/2/2026	Head	20	800	0.86	0.90	-4.03%	44.4	41.7	6.46%
3/2/2026	Head	20	850	0.88	0.92	-3.90%	44.2	41.5	6.61%
3/2/2026	Head	20	900	0.90	0.97	-7.08%	44.0	41.5	6.12%
3/2/2026	Head	20	950	0.92	0.99	-7.72%	44.0	41.4	6.09%
3/2/2026	Head	19.6	650	0.81	0.89	-8.86%	45.5	42.5	7.24%
3/2/2026	Head	19.6	700	0.82	0.89	-7.26%	45.4	42.2	7.52%
3/2/2026	Head	19.6	750	0.84	0.89	-5.85%	45.2	41.9	7.75%
3/2/2026	Head	19.6	800	0.86	0.90	-4.14%	45.1	41.7	8.14%
3/2/2026	Head	19.6	850	0.88	0.92	-4.13%	45.0	41.5	8.32%
3/2/2026	Head	19.6	900	0.90	0.97	-7.13%	44.8	41.5	7.87%
3/2/2026	Head	19.6	950	0.92	0.99	-7.71%	44.7	41.4	7.78%
3/3/2026	Head	22.1	1600	1.26	1.28	-1.88%	42.4	40.3	5.23%
3/3/2026	Head	22.1	1650	1.29	1.31	-1.95%	42.3	40.2	5.14%
3/3/2026	Head	22.1	1700	1.32	1.34	-2.02%	42.2	40.2	5.16%
3/3/2026	Head	22.1	1750	1.34	1.37	-1.92%	42.2	40.1	5.23%
3/3/2026	Head	22.1	1800	1.37	1.40	-1.82%	42.1	40.0	5.27%
3/3/2026	Head	22.1	1850	1.41	1.40	0.59%	42.0	40.0	5.04%
3/3/2026	Head	22.1	1900	1.44	1.40	2.67%	41.9	40.0	4.80%
3/3/2026	Head	22.1	1950	1.47	1.40	5.14%	41.8	40.0	4.62%
3/3/2026	Head	22.1	2000	1.50	1.40	7.24%	41.7	40.0	4.37%
3/3/2026	Head	22.1	2050	1.54	1.44	6.52%	41.7	39.9	4.47%
3/3/2026	Head	22.1	2100	1.57	1.49	5.22%	41.6	39.8	4.45%
3/4/2026	Head	21.3	650	0.83	0.89	-5.74%	44.2	42.5	4.19%
3/4/2026	Head	21.3	700	0.85	0.89	-4.15%	44.1	42.2	4.41%
3/4/2026	Head	21.3	750	0.87	0.89	-2.76%	43.9	41.9	4.62%
3/4/2026	Head	21.3	800	0.89	0.90	-1.03%	43.8	41.7	4.97%
3/4/2026	Head	21.3	850	0.91	0.92	-1.14%	43.6	41.5	5.11%
3/4/2026	Head	21.3	900	0.93	0.97	-4.27%	43.4	41.5	4.67%
3/4/2026	Head	21.3	950	0.95	0.99	-4.94%	43.3	41.4	4.55%
3/4/2026	Head	21.6	2300	1.70	1.67	2.18%	40.3	39.5	2.02%
3/4/2026	Head	21.6	2350	1.74	1.71	1.75%	40.2	39.4	2.12%
3/4/2026	Head	21.6	2400	1.78	1.76	1.49%	40.1	39.3	2.12%
3/4/2026	Head	21.6	2450	1.82	1.80	1.10%	40.0	39.2	2.14%
3/4/2026	Head	21.6	2500	1.86	1.85	0.27%	39.9	39.1	2.07%
3/4/2026	Head	21.6	2550	1.90	1.91	-0.63%	39.8	39.1	1.99%
3/4/2026	Head	21.6	2600	1.94	1.96	-1.31%	39.8	39.0	1.97%
3/4/2026	Head	21.6	2650	1.98	2.02	-2.09%	39.7	38.9	1.90%
3/4/2026	Head	21.6	2700	2.02	2.07	-2.67%	39.6	38.9	1.86%
3/6/2026	Head	22.2	2300	1.70	1.67	2.22%	39.6	39.5	0.32%
3/6/2026	Head	22.2	2350	1.74	1.71	1.69%	39.6	39.4	0.46%
3/6/2026	Head	22.2	2400	1.78	1.76	1.25%	39.5	39.3	0.43%
3/6/2026	Head	22.2	2450	1.82	1.80	0.84%	39.4	39.2	0.48%
3/6/2026	Head	22.2	2500	1.85	1.85	0.00%	39.3	39.1	0.40%
3/6/2026	Head	22.2	2550	1.89	1.91	-0.78%	39.2	39.1	0.26%
3/6/2026	Head	22.2	2600	1.94	1.96	-1.37%	39.1	39.0	0.24%
3/6/2026	Head	22.2	2650	1.98	2.02	-2.13%	39.0	38.9	0.03%
3/6/2026	Head	22.2	2700	2.02	2.07	-2.73%	38.9	38.9	-0.01%
3/6/2026	Head	22	1600	1.22	1.28	-4.91%	39.3	40.3	-2.54%
3/6/2026	Head	22	1650	1.25	1.31	-5.13%	39.2	40.2	-2.61%
3/6/2026	Head	22	1700	1.27	1.34	-5.22%	39.1	40.2	-2.57%
3/6/2026	Head	22	1750	1.30	1.37	-5.18%	39.0	40.1	-2.65%
3/6/2026	Head	22	1800	1.33	1.40	-5.07%	39.0	40.0	-2.57%
3/6/2026	Head	22	1850	1.36	1.40	-3.01%	38.9	40.0	-2.83%
3/6/2026	Head	22	1900	1.39	1.40	-1.05%	38.8	40.0	-2.22%
3/6/2026	Head	22	1950	1.42	1.40	1.29%	38.8	40.0	-3.06%
3/6/2026	Head	22	2000	1.45	1.40	3.51%	38.7	40.0	-3.29%
3/6/2026	Head	22	2050	1.48	1.44	2.80%	38.6	39.9	-3.28%
3/6/2026	Head	22	2100	1.52	1.49	1.80%	38.5	39.8	-3.32%
3/6/2026	Head	22.4	2300	1.69	1.67	1.33%	38.7	39.5	-1.86%
3/6/2026	Head	22.4	2350	1.72	1.71	0.77%	38.7	39.4	-1.78%
3/6/2026	Head	22.4	2400	1.76	1.76	0.34%	38.6	39.3	-1.81%
3/6/2026	Head	22.4	2450	1.80	1.80	-0.10%	38.5	39.2	-1.78%
3/6/2026	Head	22.4	2500	1.84	1.85	-0.90%	38.4	39.1	-1.84%
3/6/2026	Head	22.4	2550	1.88	1.91	-1.73%	38.3	39.1	-1.97%
3/6/2026	Head	22.4	2600	1.92	1.96	-2.31%	38.2	39.0	-1.99%
3/6/2026	Head	22.4	2650	1.95	2.02	-3.16%	38.1	38.9	-2.22%
3/6/2026	Head	22.4	2700	2.00	2.07	-3.74%	38.0	38.9	-2.39%
3/9/2026	Head	23.3	1600	1.26	1.28	-2.20%	39.6	40.3	-1.72%
3/9/2026	Head	23.3	1650	1.28	1.31	-2.35%	39.5	40.2	-1.79%
3/9/2026	Head	23.3	1700	1.31	1.34	-2.43%	39.4	40.2	-1.77%
3/9/2026	Head	23.3	1750	1.34	1.37	-2.50%	39.3	40.1	-1.82%
3/9/2026	Head	23.3	1800	1.36	1.40	-2.72%	39.3	40.0	-1.89%
3/9/2026	Head	23.3	1850	1.39	1.40	-0.66%	39.2	40.0	-2.02%
3/9/2026	Head	23.3	1900	1.42	1.40	1.33%	39.1	40.0	-2.19%
3/9/2026	Head	23.3	1950	1.45	1.40	3.68%	39.1	40.0	-2.37%
3/9/2026	Head	23.3	2000	1.48	1.40	5.76%	39.0	40.0	-2.58%
3/9/2026	Head	23.3	2050	1.52	1.44	5.02%	38.9	39.9	-2.57%
3/9/2026	Head	23.3	2100	1.54	1.49	3.68%	38.8	39.8	-2.63%
3/9/2026	Head	22.9	3300	2.52	2.71	-6.98%	38.3	38.2	0.49%
3/9/2026	Head	22.9	3350	2.57	2.76	-6.99%	38.3	38.1	0.41%
3/9/2026	Head	22.9	3400	2.61	2.81	-7.28%	38.2	38.0	0.33%
3/9/2026	Head	22.9	3450	2.65	2.86	-7.44%	38.1	38.0	0.25%
3/9/2026	Head	22.9	3500	2.69	2.91	-7.65%	38.0	37.9	0.16%
3/9/2026	Head	22.9	3550	2.74	2.96	-7.65%	37.9	37.9	0.12%
3/9/2026	Head	22.9	3600	2.78	3.02	-7.77%	37.8	37.8	0.03%
3/9/2026	Head	22.9	3650	2.83	3.07	-7.79%	37.8	37.8	0.05%
3/9/2026	Head	22.9	3700	2.88	3.12	-7.75%	37.7	37.7	-0.06%
3/9/2026	Head	22.9	3750	2.92	3.17	-7.97%	37.6	37.6	-0.06%
3/9/2026	Head	22.9	3800	2.97	3.22	-7.83%	37.5	37.6	-0.16%
3/9/2026	Head	22.9	3850	3.01	3.27	-7.96%	37.5	37.5	-0.19%
3/9/2026	Head	22.9	3900	3.06	3.32	-7.82%	37.4	37.5	-0.22%
3/9/2026	Head	22.9	3950	3.11	3.41	-7.89%	37.3	37.4	-0.32%
3/9/2026	Head	22.9	3980	3.14	3.41	-7.89%	37.3	37.4	-0.44%
3/9/2026	Head	22.5	2300	1.65	1.67	-0.76%	37.5	39.5	-4.98%
3/9/2026	Head	22.5	2350	1.69	1.71	-1.20%	37.4	39.4	-4.92%
3/9/2026	Head	22.5	2400	1.73	1.76	-1.47%	37.4	39.3	-4.92%
3/9/2026	Head	22.5	2450	1.76	1.80	-1.97%	37.3	39.2	-4.90%
3/9/2026	Head	22.5	2500	1.80	1.82	-2.84%	37.2	39.1	-4.96%
3/9/2026	Head	22.5	2550	1.84	1.91	-3.80%	37.1	39.1	-5.03%
3/9/2026	Head	22.5	2600	1.88	1.96	-4.50%	37.1	39.0	-5.01%
3/9/2026	Head	22.5	2650	1.91	2.02	-5.31%	37.0	38.9	-5.09%
3/9/2026	Head	22.5	2700	1.95	2.07	-5.80%	36.9	38.9	-5.11%
3/9/2026	Head	22.4	3300	2.55	2.71	-5.89%	39.2	38.2	2.69%
3/9/2026	Head	22.4	3350	2.59	2.76	-5.97%	39.1	38.1	2.61%
3/9/2026	Head	22.4	3400	2.63	2.81	-6.23%	39.0	38.0	2.53%

Table 4 SAR Tissue Dielectric Parameters (Continued)

Date	Tissue Type	Liquid Temp (°C)	Frequency (MHz)	Conductivity Measured (σ)	Conductivity Target (σ)	Deviation	Permittivity measured (εr)	Permittivity Target (εr)	Deviation
3/9/2026	Head	22.4	3450	2.68	2.86	-6.37%	38.9	38.0	2.45%
3/9/2026	Head	22.4	3500	2.72	2.91	-6.58%	38.8	37.9	2.36%
3/9/2026	Head	22.4	3550	2.77	2.96	-6.55%	38.8	37.9	2.32%
3/9/2026	Head	22.4	3600	2.81	3.02	-6.64%	38.7	37.8	2.22%
3/9/2026	Head	22.4	3650	2.86	3.07	-6.66%	38.6	37.8	2.24%
3/9/2026	Head	22.4	3700	2.91	3.12	-6.58%	38.5	37.7	2.12%
3/9/2026	Head	22.4	3750	2.95	3.17	-6.78%	38.4	37.6	2.12%
3/9/2026	Head	22.4	3800	3.01	3.22	-6.53%	38.3	37.6	2.03%
3/9/2026	Head	22.4	3850	3.05	3.27	-6.73%	38.3	37.5	2.00%
3/9/2026	Head	22.4	3900	3.10	3.32	-6.57%	38.2	37.5	1.98%
3/9/2026	Head	22.4	3950	3.15	3.37	-6.61%	38.1	37.4	1.85%
3/9/2026	Head	22.4	3980	3.19	3.41	-6.57%	38.1	37.4	1.75%
3/11/2026	Head	21.9	2300	1.68	1.67	1.00%	38.5	39.5	-2.45%
3/11/2026	Head	21.9	2350	1.72	1.71	0.54%	38.4	39.4	-2.37%
3/11/2026	Head	21.9	2400	1.76	1.76	0.26%	38.4	39.3	-2.36%
3/11/2026	Head	21.9	2450	1.80	1.80	-0.12%	38.3	39.2	-2.32%
3/11/2026	Head	21.9	2500	1.84	1.85	-0.89%	38.2	39.1	-2.38%
3/11/2026	Head	21.9	2550	1.88	1.91	-1.64%	38.1	39.1	-2.46%
3/11/2026	Head	21.9	2600	1.92	1.96	-2.21%	38.0	39.0	-2.49%
3/11/2026	Head	21.9	2650	1.96	2.02	-2.92%	37.9	38.9	-2.61%
3/11/2026	Head	21.9	2700	2.00	2.07	-3.47%	37.8	38.9	-2.68%
3/11/2026	Head	21.1	1600	1.21	1.28	-5.44%	38.8	40.3	-3.72%
3/11/2026	Head	21.1	1650	1.24	1.34	-5.59%	38.7	40.2	-3.84%
3/11/2026	Head	21.1	1700	1.27	1.34	-5.61%	38.6	40.2	-3.88%
3/11/2026	Head	21.1	1750	1.29	1.37	-5.59%	38.6	40.1	-3.81%
3/11/2026	Head	21.1	1800	1.32	1.40	-5.41%	38.5	40.0	-3.80%
3/11/2026	Head	21.1	1850	1.36	1.40	-3.16%	38.4	40.0	-4.02%
3/11/2026	Head	21.1	1900	1.38	1.40	-1.09%	38.3	40.0	-4.26%
3/11/2026	Head	21.1	1950	1.42	1.40	1.30%	38.2	40.0	-4.44%
3/11/2026	Head	21.1	2000	1.45	1.40	3.25%	38.1	40.0	-4.72%
3/11/2026	Head	21.1	2050	1.48	1.44	2.62%	38.1	39.9	-0.64%
3/11/2026	Head	21.1	2100	1.51	1.49	1.45%	38.0	39.8	-4.69%
3/11/2026	Head	21.7	3300	2.55	2.71	-5.87%	38.5	38.2	0.98%
3/11/2026	Head	21.7	3350	2.59	2.76	-5.95%	38.4	38.1	0.88%
3/11/2026	Head	21.7	3400	2.64	2.81	-6.12%	38.3	38.0	0.80%
3/11/2026	Head	21.7	3450	2.68	2.86	-6.18%	38.3	38.0	0.72%
3/11/2026	Head	21.7	3500	2.73	2.91	-6.28%	38.2	37.9	0.67%
3/11/2026	Head	21.7	3550	2.78	2.98	-6.31%	38.1	37.9	0.59%
3/11/2026	Head	21.7	3600	2.82	3.02	-6.37%	38.0	37.8	0.48%
3/11/2026	Head	21.7	3650	2.87	3.07	-6.39%	37.9	37.8	0.45%
3/11/2026	Head	21.7	3700	2.92	3.12	-6.25%	37.8	37.7	0.34%
3/11/2026	Head	21.7	3750	2.96	3.17	-6.45%	37.8	37.6	0.31%
3/11/2026	Head	21.7	3800	3.02	3.22	-6.23%	37.7	37.6	0.23%
3/11/2026	Head	21.7	3850	3.06	3.27	-6.35%	37.6	37.5	0.15%
3/11/2026	Head	21.7	3900	3.12	3.32	-6.19%	37.5	37.5	0.13%
3/11/2026	Head	21.7	3950	3.16	3.37	-6.24%	37.4	37.4	-0.06%
3/11/2026	Head	21.7	3980	3.20	3.41	-6.16%	37.4	37.4	-0.17%
3/11/2026	Head	21.7	2300	1.64	1.67	-1.34%	38.3	39.5	-3.00%
3/11/2026	Head	21.7	2350	1.68	1.71	-1.71%	38.2	39.4	-2.92%
3/11/2026	Head	21.7	2400	1.72	1.76	-1.90%	38.1	39.3	-2.90%
3/11/2026	Head	21.7	2450	1.76	1.80	-2.22%	38.1	39.2	-2.82%
3/11/2026	Head	21.7	2500	1.80	1.85	-2.88%	38.0	39.1	-2.84%
3/11/2026	Head	21.7	2550	1.84	1.91	-3.64%	37.9	39.1	-2.80%
3/11/2026	Head	21.7	2600	1.88	1.96	-4.15%	37.9	39.0	-2.94%
3/11/2026	Head	21.7	2650	1.92	2.02	-4.87%	37.8	38.9	-3.07%
3/11/2026	Head	21.7	2700	1.96	2.07	-5.35%	37.6	38.9	-3.18%
3/13/2026	Head	22.3	2300	1.63	1.67	-2.24%	37.5	39.5	-4.97%
3/13/2026	Head	22.3	2350	1.66	1.71	-2.85%	37.4	39.4	-4.92%
3/13/2026	Head	22.3	2400	1.70	1.76	-3.23%	37.4	39.3	-4.92%
3/13/2026	Head	22.3	2450	1.73	1.80	-3.85%	37.3	39.2	-4.85%
3/13/2026	Head	22.3	2500	1.77	1.85	-4.65%	37.2	39.1	-4.88%
3/13/2026	Head	22.3	2550	1.80	1.91	-5.48%	37.1	39.1	-4.92%
3/13/2026	Head	22.3	2600	1.85	1.96	-6.01%	37.1	39.0	-4.93%
3/13/2026	Head	22.3	2650	1.88	2.02	-6.69%	37.0	38.9	-5.03%
3/13/2026	Head	22.3	2700	1.92	2.07	-7.16%	36.9	38.9	-5.08%
3/13/2026	Head	21.7	2300	1.63	1.67	-2.24%	37.5	39.5	-4.97%
3/13/2026	Head	21.7	2350	1.66	1.71	-2.85%	37.4	39.4	-4.92%
3/13/2026	Head	21.7	2400	1.70	1.76	-3.23%	37.4	39.3	-4.92%
3/13/2026	Head	21.7	2450	1.73	1.80	-3.85%	37.3	39.2	-4.88%
3/13/2026	Head	21.7	2500	1.77	1.85	-4.65%	37.2	39.1	-4.85%
3/13/2026	Head	21.7	2550	1.80	1.91	-5.48%	37.1	39.1	-4.92%
3/13/2026	Head	21.7	2600	1.85	1.96	-6.01%	37.1	39.0	-4.93%
3/13/2026	Head	21.7	2650	1.88	2.02	-6.69%	37.0	38.9	-5.03%
3/13/2026	Head	21.7	2700	1.92	2.07	-7.16%	36.9	38.9	-5.08%
3/13/2026	Head	22.3	650	0.86	0.89	-2.95%	43.3	42.5	1.98%
3/13/2026	Head	22.3	700	0.88	0.89	-1.58%	43.1	42.2	2.22%
3/13/2026	Head	22.3	750	0.89	0.89	-0.21%	43.0	41.9	2.47%
3/13/2026	Head	22.3	800	0.91	0.90	1.19%	42.8	41.7	2.74%
3/13/2026	Head	22.3	850	0.93	0.92	1.02%	42.7	41.5	2.92%
3/13/2026	Head	22.3	900	0.95	0.97	-2.37%	42.5	41.5	2.42%
3/13/2026	Head	22.3	950	0.96	0.99	-3.15%	42.4	41.4	2.35%
3/13/2026	Head	21.1	650	0.82	0.89	-7.69%	42.0	42.5	-1.09%
3/13/2026	Head	21.1	700	0.83	0.89	-6.34%	41.8	42.2	-0.94%
3/13/2026	Head	21.1	750	0.85	0.89	-4.88%	41.6	41.9	-0.73%
3/13/2026	Head	21.1	800	0.87	0.90	-3.46%	41.5	41.7	-0.40%
3/13/2026	Head	21.1	850	0.88	0.92	-3.50%	41.4	41.5	-0.18%
3/13/2026	Head	21.1	900	0.90	0.97	-6.73%	41.2	41.5	-0.61%
3/13/2026	Head	21.1	950	0.92	0.99	-7.41%	41.1	41.4	-0.75%
3/13/2026	Head	21.5	3300	2.49	2.71	-8.06%	39.5	38.2	3.63%
3/13/2026	Head	21.5	3350	2.53	2.76	-8.13%	39.4	38.1	3.52%
3/13/2026	Head	21.5	3400	2.57	2.81	-8.43%	39.4	38.0	3.47%
3/13/2026	Head	21.5	3450	2.62	2.86	-8.47%	39.3	38.0	3.38%
3/13/2026	Head	21.5	3500	2.66	2.91	-8.62%	39.2	37.9	3.41%
3/13/2026	Head	21.5	3550	2.71	2.96	-8.57%	39.2	37.9	3.40%
3/13/2026	Head	21.5	3600	2.75	3.02	-8.71%	39.1	37.8	3.36%
3/13/2026	Head	21.5	3650	2.80	3.07	-8.77%	39.0	37.8	3.33%
3/13/2026	Head	21.5	3700	2.85	3.12	-8.71%	38.9	37.7	3.19%
3/13/2026	Head	21.5	3750	2.89	3.17	-8.89%	38.8	37.6	3.19%
3/13/2026	Head	21.5	3800	2.94	3.22	-8.88%	38.8	37.6	3.11%
3/13/2026	Head	21.5	3850	2.99	3.27	-8.73%	38.7	37.5	3.14%
3/13/2026	Head	21.5	3900	3.04	3.32	-8.58%	38.6	37.5	3.12%
3/13/2026	Head	21.5	3950	3.08	3.37	-8.65%	38.6	37.4	3.04%
3/13/2026	Head	21.5	3980	3.11	3.41	-8.67%	38.5	37.4	2.92%
3/13/2026	Head	20	1600	1.19	1.28	-7.58%	40.1	40.3	-0.55%
3/13/2026	Head	20	1650	1.21	1.31	-7.50%	40.0	40.2	-0.49%
3/13/2026	Head	20	1700	1.25	1.34	-7.10%	40.0	40.2	-0.38%
3/13/2026	Head	20	1750	1.28	1.37	-6.61%	39.9	40.1	-0.37%
3/13/2026	Head	20	1800	1.31	1.40	-6.47%	39.8	40.0	-0.40%
3/13/2026	Head	20	1850	1.34	1.40	-4.36%	39.7	40.0	-0.65%
3/13/2026	Head	20	1900	1.37	1.40	-2.47%	39.7	40.0	-0.80%
3/13/2026	Head	20	1950	1.40	1.40	-0.12%	39.6	40.0	-0.93%
3/13/2026	Head	20	2000	1.43	1.40	1.87%	39.6	40.0	-1.08%
3/13/2026	Head	20	2050	1.46	1.44	1.22%	39.6	39.9	-0.87%
3/13/2026	Head	20	2100	1.49	1.49	0.33%	39.5	39.8	-0.83%
3/15/2026	Head	20.3	10	0.70	0.75	-7.07%	53.6	55.0	-2.63%
3/15/2026	Head	20.3	15	0.70	0.75	-7.03%	53.2	55.0	-3.31%
3/16/2026	Head	20.7	650	0.82	0.89	-7.01%	41.7	42.5	-1.71%
3/16/2026	Head	20.7	700	0.84	0.89	-5.57%	41.6	42.2	-1.50%
3/16/2026	Head	20.7	750	0.86	0.89	-4.19%	41.4	41.9	-1.28%
3/16/2026	Head	20.7	800	0.87	0.90	-2.56%	41.2	41.7	-1.06%
3/16/2026	Head	20.7	850	0.89	0.92	-2.85%	41.1	41.5	-0.92%
3/16/2026	Head	20.7	900	0.91	0.97	-6.03%	40.9	41.5	-1.36%
3/16/2026	Head	20.7	950	0.93	0.99	-6.78%	40.8	41.4	-1.46%

Table 5 SAR Tissue Dielectric Parameters (Continued)

Date	Tissue Type	Liquid Temp (°C)	Frequency (MHz)	Conductivity Measured (σ)	Conductivity Target (σ)	Deviation	Permittivity measured (εr)	Permittivity Target (εr)	Deviation
3/16/2026	Head	20.8	2300	1.63	1.67	-1.99%	38.2	39.5	-3.09%
3/16/2026	Head	20.8	2350	1.67	1.71	-2.39%	38.2	39.4	-3.01%
3/16/2026	Head	20.8	2400	1.71	1.76	-2.81%	38.1	39.3	-3.02%
3/16/2026	Head	20.8	2450	1.74	1.80	-3.08%	38.0	39.2	-3.00%
3/16/2026	Head	20.8	2500	1.78	1.85	-3.85%	37.9	39.1	-3.06%
3/16/2026	Head	20.8	2550	1.82	1.91	-4.71%	37.8	39.1	-3.14%
3/16/2026	Head	20.8	2600	1.86	1.96	-5.27%	37.8	39.0	-3.14%
3/16/2026	Head	20.8	2650	1.90	2.02	-5.98%	37.7	38.9	-3.21%
3/16/2026	Head	20.8	2700	1.94	2.07	-6.42%	37.6	38.9	-3.25%
3/16/2026	Head	20.7	650	0.80	0.89	-9.53%	40.1	42.5	-5.62%
3/16/2026	Head	20.7	700	0.82	0.89	-8.15%	39.9	42.2	-5.46%
3/16/2026	Head	20.7	750	0.83	0.89	-6.80%	39.7	41.9	-5.24%
3/16/2026	Head	20.7	800	0.85	0.90	-5.21%	39.6	41.7	-5.07%
3/16/2026	Head	20.7	850	0.87	0.92	-5.50%	39.5	41.5	-4.93%
3/16/2026	Head	20.7	900	0.89	0.97	-8.61%	39.3	41.5	-5.37%
3/16/2026	Head	20.7	950	0.90	0.99	-9.31%	39.2	41.4	-5.47%
3/16/2026	Head	20	1600	1.19	1.28	-7.50%	38.6	40.3	-4.36%
3/16/2026	Head	20	1650	1.21	1.31	-7.61%	38.4	40.2	-4.48%
3/16/2026	Head	20	1700	1.24	1.34	-7.69%	38.4	40.2	-4.42%
3/16/2026	Head	20	1750	1.27	1.37	-7.44%	38.3	40.1	-4.36%
3/16/2026	Head	20	1800	1.30	1.40	-7.26%	38.2	40.0	-4.40%
3/16/2026	Head	20	1850	1.33	1.40	-5.06%	38.1	40.0	-4.63%
3/16/2026	Head	20	1900	1.36	1.40	-3.06%	38.0	40.0	-4.89%
3/16/2026	Head	20	1950	1.39	1.40	-0.76%	38.0	40.0	-5.04%
3/16/2026	Head	20	2000	1.42	1.40	1.27%	37.9	40.0	-5.32%
3/16/2026	Head	20	2050	1.45	1.44	0.54%	37.8	39.9	-5.20%
3/16/2026	Head	20	2100	1.48	1.49	-0.71%	37.7	39.8	-5.23%
3/16/2026	Head	20.6	650	0.81	0.89	-8.85%	39.7	42.5	-6.39%
3/16/2026	Head	20.6	700	0.82	0.89	-7.69%	39.6	42.2	-6.17%
3/16/2026	Head	20.6	750	0.84	0.89	-6.11%	39.4	41.9	-5.99%
3/16/2026	Head	20.6	800	0.85	0.90	-4.81%	39.3	41.7	-5.77%
3/16/2026	Head	20.6	850	0.87	0.92	-4.95%	39.2	41.5	-5.95%
3/16/2026	Head	20.6	900	0.89	0.97	-8.26%	39.0	41.5	-6.08%
3/16/2026	Head	20.6	950	0.91	0.99	-8.90%	38.9	41.4	-6.15%
3/16/2026	Head	20.8	1600	1.21	1.28	-5.90%	39.9	40.3	-1.03%
3/16/2026	Head	20.8	1650	1.23	1.31	-6.04%	39.8	40.2	-1.14%
3/16/2026	Head	20.8	1700	1.26	1.34	-6.04%	39.7	40.2	-1.09%
3/16/2026	Head	20.8	1750	1.29	1.37	-5.78%	39.6	40.1	-1.09%
3/16/2026	Head	20.8	1800	1.32	1.40	-5.57%	39.6	40.0	-1.11%
3/16/2026	Head	20.8	1850	1.35	1.40	-3.46%	39.4	40.0	-1.39%
3/16/2026	Head	20.8	1900	1.38	1.40	-1.51%	39.4	40.0	-1.56%
3/16/2026	Head	20.8	1950	1.41	1.40	0.92%	39.3	40.0	-1.72%
3/16/2026	Head	20.8	2000	1.44	1.40	3.10%	39.2	40.0	-1.94%
3/16/2026	Head	20.8	2050	1.48	1.44	2.44%	39.2	39.9	-1.89%
3/16/2026	Head	20.8	2100	1.51	1.49	1.30%	39.1	39.8	-1.92%
3/16/2026	Head	22.1	650	0.81	0.89	-8.98%	40.1	42.5	-5.57%
3/16/2026	Head	22.1	700	0.82	0.89	-7.65%	39.9	42.2	-5.36%
3/16/2026	Head	22.1	750	0.84	0.89	-6.21%	39.8	41.9	-5.17%
3/16/2026	Head	22.1	800	0.85	0.90	-4.75%	39.6	41.7	-4.97%
3/16/2026	Head	22.1	850	0.87	0.92	-4.97%	39.5	41.5	-4.83%
3/16/2026	Head	22.1	900	0.89	0.97	-8.17%	39.3	41.5	-5.27%
3/16/2026	Head	22.1	950	0.91	0.99	-8.83%	39.2	41.4	-5.33%
3/20/2026	Head	22.2	650	0.81	0.89	-9.05%	40.2	42.5	-5.39%
3/20/2026	Head	22.2	700	0.82	0.89	-7.86%	40.0	42.2	-5.20%
3/20/2026	Head	22.2	750	0.84	0.89	-6.39%	39.9	41.9	-4.98%
3/20/2026	Head	22.2	800	0.85	0.90	-5.02%	39.7	41.7	-4.73%
3/20/2026	Head	22.2	850	0.87	0.92	-5.24%	39.6	41.5	-4.62%
3/20/2026	Head	22.2	900	0.89	0.97	-8.38%	39.4	41.5	-4.97%
3/20/2026	Head	22.2	950	0.90	0.99	-9.01%	39.3	41.4	-5.08%
3/20/2026	Head	21.9	5150	4.32	4.60	-6.16%	34.1	36.0	-5.44%
3/20/2026	Head	21.9	5200	4.38	4.66	-6.01%	34.0	36.0	-5.55%
3/20/2026	Head	21.9	5250	4.43	4.71	-5.87%	33.9	35.9	-5.69%
3/20/2026	Head	21.9	5300	4.48	4.76	-5.77%	33.8	35.9	-5.75%
3/20/2026	Head	21.9	5350	4.54	4.84	-5.97%	33.7	35.8	-5.88%
3/20/2026	Head	21.9	5400	4.59	4.96	-5.43%	33.5	35.6	-6.15%
3/20/2026	Head	21.9	5550	4.75	5.01	-5.31%	33.4	35.6	-6.25%
3/20/2026	Head	21.9	5600	4.80	5.07	-5.14%	33.3	35.5	-6.36%
3/20/2026	Head	21.9	5650	4.86	5.12	-4.95%	33.2	35.5	-6.49%
3/20/2026	Head	21.9	5700	4.92	5.17	-4.77%	33.1	35.4	-6.61%
3/20/2026	Head	21.9	5750	4.97	5.22	-4.74%	33.0	35.4	-6.68%
3/20/2026	Head	21.9	5800	5.03	5.27	-4.51%	32.9	35.3	-6.80%
3/20/2026	Head	21.9	5850	5.09	5.32	-4.46%	32.8	35.3	-6.91%
3/20/2026	Head	21.9	5900	5.14	5.38	-4.36%	32.7	35.2	-7.04%
3/20/2026	Head	21.1	5150	4.31	4.60	-6.39%	33.6	36.0	-6.89%
3/20/2026	Head	21.1	5200	4.37	4.66	-6.22%	33.5	36.0	-6.99%
3/20/2026	Head	21.1	5250	4.42	4.71	-6.06%	33.4	35.9	-7.14%
3/20/2026	Head	21.1	5300	4.47	4.76	-5.97%	33.3	35.9	-7.19%
3/20/2026	Head	21.1	5350	4.53	4.81	-5.84%	33.2	35.8	-7.32%
3/20/2026	Head	21.1	5500	4.69	4.96	-5.57%	32.9	35.6	-7.60%
3/20/2026	Head	21.1	5550	4.74	5.01	-5.40%	32.8	35.6	-7.69%
3/20/2026	Head	21.1	5600	4.80	5.07	-5.27%	32.8	35.5	-7.80%
3/20/2026	Head	21.1	5650	4.86	5.12	-5.05%	32.7	35.5	-7.92%
3/20/2026	Head	21.1	5700	4.91	5.17	-4.89%	32.6	35.4	-8.05%
3/20/2026	Head	21.1	5750	4.97	5.22	-4.82%	32.5	35.4	-8.10%
3/20/2026	Head	21.1	5800	5.03	5.27	-4.62%	32.4	35.3	-8.27%
3/20/2026	Head	21.1	5850	5.08	5.32	-4.56%	32.3	35.3	-8.35%
3/20/2026	Head	21.1	5900	5.14	5.38	-4.43%	32.2	35.2	-8.49%
3/20/2026	Head	21.6	2300	1.60	1.67	-4.08%	37.3	39.5	-5.53%
3/20/2026	Head	21.6	2350	1.63	1.71	-4.53%	37.2	39.4	-5.43%
3/20/2026	Head	21.6	2400	1.67	1.76	-4.73%	37.2	39.3	-5.44%
3/20/2026	Head	21.6	2450	1.71	1.80	-5.18%	37.1	39.2	-5.41%
3/20/2026	Head	21.6	2500	1.75	1.85	-5.90%	37.0	39.1	-5.47%
3/20/2026	Head	21.6	2550	1.78	1.91	-6.71%	36.9	39.1	-5.54%
3/20/2026	Head	21.6	2600	1.82	1.96	-7.29%	36.8	39.0	-5.55%
3/20/2026	Head	21.6	2650	1.86	2.02	-7.96%	36.7	38.9	-5.64%
3/20/2026	Head	21.6	2700	1.90	2.07	-8.47%	36.7	38.9	-5.69%
3/20/2026	Head	22.2	650	0.85	0.89	-4.46%	43.3	42.2	1.96%
3/20/2026	Head	22.2	700	0.87	0.89	-2.23%	43.5	42.2	3.07%
3/20/2026	Head	22.2	750	0.88	0.89	-1.00%	43.3	41.9	3.31%
3/20/2026	Head	22.2	800	0.90	0.90	0.32%	43.3	41.7	3.77%
3/20/2026	Head	22.2	850	0.91	0.92	-0.27%	43.1	41.5	3.78%
3/20/2026	Head	22.2	900	0.94	0.97	-3.27%	43.0	41.5	3.68%
3/20/2026	Head	22.2	950	0.96	0.99	-3.73%	43.1	41.4	4.07%
3/23/2026	Head	20.4	2300	1.63	1.67	-2.46%	37.9	39.5	-3.90%
3/23/2026	Head	20.4	2350	1.66	1.71	-2.88%	37.9	39.4	-3.82%
3/23/2026	Head	20.4	2400	1.70	1.76	-3.08%	37.8	39.3	-3.81%
3/23/2026	Head	20.4	2450	1.74	1.80	-3.44%	37.7	39.2	-3.76%
3/23/2026	Head	20.4	2500	1.78	1.85	-4.08%	37.6	39.1	-3.84%
3/23/2026	Head	20.4	2550	1.82	1.91	-4.89%	37.5	39.1	-3.91%
3/23/2026	Head	20.4	2600	1.86	1.96	-5.27%	37.5	39.0	-3.95%
3/23/2026	Head	20.4	2650	1.90	2.02	-5.96%	37.4	38.9	-4.07%
3/23/2026	Head	20.4	2700	1.94	2.07	-6.38%	37.3	38.9	-4.12%
3/25/2026	Head	21.9	5910	5.48	5.39	1.75%	36.8	35.2	4.56%
3/25/2026	Head	21.9	5950	5.53	5.43	1.82%	36.7	35.2	4.34%
3/25/2026	Head	21.9	6000	5.59	5.48	1.94%	36.6	35.1	4.36%
3/25/2026	Head	21.9	6050	5.65	5.54	2.07%	36.5	35.0	4.12%
3/25/2026	Head	21.9	6100	5.72	5.60	2.10%	36.4	35.0	4.16%
3/25/2026	Head	21.9	6150	5.79	5.66	2.40%	36.3	34.9	3.96%
3/25/2026	Head	21.9	6200	5.84	5.72	2.21%	36.2	34.9	3.97%
3/25/2026	Head	21.9	6250	5.92	5.78	2.57%	36.1	34.8	3.82%
3/25/2026	Head	21.9	6300	6.02	5.87	2.39%	35.7	34.5	3.45%
3/25/2026	Head	21.9	6350	6.06	5.89	3.12%	35.3	34.2	3.12%
3/25/2026	Head	21.9	6400	6.08	5.89	3.22%	34.9	33.9	2.62%

Table 6 SAR Tissue Dielectric Parameters (Continued)

Date	Tissue Type	Liquid Temp (°C)	Frequency (MHz)	Conductivity Measured (σ)	Conductivity Target (σ)	Deviation	Permittivity measured (εr)	Permittivity Target (εr)	Deviation
3/25/2026	Head	21.9	7250	7.19	6.95	3.46%	34.4	33.6	2.31%
3/25/2026	Head	21.9	7950	8.11	7.78	4.24%	33.1	32.8	1.06%
3/25/2026	Head	21.9	8000	8.12	7.84	3.63%	33.2	32.7	1.53%
3/26/2026	Head	20.8	2300	1.66	1.67	-0.60%	37.9	39.5	-3.85%
3/26/2026	Head	20.8	2350	1.69	1.71	-1.06%	37.9	39.4	-3.79%
3/26/2026	Head	20.8	2400	1.73	1.76	-1.31%	37.8	39.1	-3.82%
3/26/2026	Head	20.8	2450	1.77	1.80	-1.83%	37.7	39.2	-3.81%
3/26/2026	Head	20.8	2500	1.81	1.85	-2.65%	37.6	39.1	-3.87%
3/26/2026	Head	20.8	2550	1.84	1.91	-3.56%	37.5	39.1	-3.95%
3/26/2026	Head	20.8	2600	1.88	1.96	-4.16%	37.5	39.0	-3.93%
3/26/2026	Head	20.8	2650	1.92	2.02	-4.89%	37.4	38.9	-4.03%
3/29/2026	Head	20.8	2700	1.96	2.07	-5.37%	37.3	38.9	-4.95%
3/29/2026	Head	19.7	2300	1.62	1.67	-2.66%	38.9	39.5	-1.42%
3/29/2026	Head	19.7	2350	1.66	1.71	-3.23%	38.9	39.4	-1.31%
3/29/2026	Head	19.7	2400	1.69	1.76	-3.46%	38.8	39.3	-1.26%
3/29/2026	Head	19.7	2450	1.73	1.80	-3.84%	38.7	39.2	-1.19%
3/29/2026	Head	19.7	2500	1.77	1.85	-4.48%	38.7	39.1	-1.22%
3/29/2026	Head	19.7	2550	1.81	1.91	-5.15%	38.6	39.1	-1.28%
3/29/2026	Head	19.7	2600	1.85	1.96	-5.61%	38.5	39.0	-1.29%
3/29/2026	Head	19.7	2650	1.89	2.02	-6.29%	38.4	38.9	-1.43%
3/29/2026	Head	19.7	2700	1.93	2.07	-6.80%	38.3	38.9	-1.48%
3/29/2026	Head	20	2300	1.67	1.67	0.12%	39.5	39.5	0.11%
3/29/2026	Head	20	2350	1.70	1.71	-0.38%	39.5	39.4	0.20%
3/29/2026	Head	20	2400	1.75	1.76	-0.53%	39.4	39.3	0.29%
3/29/2026	Head	20	2450	1.78	1.80	-0.91%	39.3	39.2	0.24%
3/29/2026	Head	20	2500	1.82	1.85	-1.59%	39.2	39.1	0.17%
3/29/2026	Head	20	2550	1.86	1.91	-2.37%	39.1	39.1	0.10%
3/29/2026	Head	20	2600	1.91	1.96	-2.82%	39.0	39.0	0.08%
3/29/2026	Head	20	2650	1.95	2.02	-3.45%	38.9	38.9	-0.03%
3/29/2026	Head	20	2700	1.99	2.07	-3.91%	38.8	38.9	-0.09%
3/29/2026	Head	19.9	2300	1.64	1.67	-1.72%	38.6	39.5	-2.14%
3/29/2026	Head	19.9	2350	1.67	1.71	-2.15%	38.6	39.4	-2.05%
3/29/2026	Head	19.9	2400	1.72	1.76	-2.25%	38.5	39.3	-2.06%
3/29/2026	Head	19.9	2450	1.75	1.80	-2.62%	38.4	39.2	-2.02%
3/29/2026	Head	19.9	2500	1.79	1.85	-3.24%	38.3	39.1	-2.10%
3/29/2026	Head	19.9	2550	1.83	1.91	-4.00%	38.2	39.1	-2.17%
3/29/2026	Head	19.9	2600	1.88	1.96	-4.37%	38.2	39.0	-2.20%
3/29/2026	Head	19.9	2650	1.92	2.02	-5.02%	38.0	38.9	-2.32%
3/29/2026	Head	19.9	2700	1.96	2.07	-5.39%	38.0	38.9	-2.38%
3/29/2026	Head	19.7	2300	1.64	1.67	-1.72%	38.6	39.5	-2.14%
3/29/2026	Head	19.7	2350	1.67	1.71	-2.15%	38.6	39.4	-2.05%
3/29/2026	Head	19.7	2400	1.72	1.76	-2.25%	38.5	39.3	-2.06%
3/29/2026	Head	19.7	2450	1.75	1.80	-2.62%	38.4	39.2	-2.02%
3/29/2026	Head	19.7	2500	1.79	1.85	-3.24%	38.3	39.1	-2.10%
3/29/2026	Head	19.7	2550	1.83	1.91	-4.00%	38.2	39.1	-2.17%
3/29/2026	Head	19.7	2600	1.88	1.96	-4.37%	38.2	39.0	-2.20%
3/29/2026	Head	19.7	2650	1.92	2.02	-5.02%	38.0	38.9	-2.32%
3/29/2026	Head	19.7	2700	1.96	2.07	-5.39%	38.0	38.9	-2.38%
4/1/2026	Head	21.9	5910	5.38	5.39	-0.02%	35.3	35.2	0.19%
4/1/2026	Head	21.9	5950	5.43	5.43	0.09%	35.2	35.2	0.09%
4/1/2026	Head	21.9	6000	5.49	5.48	0.14%	35.1	35.1	0.03%
4/1/2026	Head	21.9	6050	5.55	5.54	0.24%	35.0	35.0	-0.13%
4/1/2026	Head	21.9	6100	5.61	5.60	0.28%	34.9	35.0	-0.18%
4/1/2026	Head	21.9	6150	5.68	5.66	0.44%	34.8	34.9	-0.29%
4/1/2026	Head	21.9	6200	5.74	5.72	0.35%	34.7	34.9	-0.36%
4/1/2026	Head	21.9	6250	5.81	5.78	0.52%	34.6	34.8	-0.44%
4/1/2026	Head	21.9	6300	5.87	5.84	0.51%	34.5	34.7	-0.58%
4/1/2026	Head	21.9	6350	5.94	5.90	0.68%	34.4	34.6	-0.63%
4/1/2026	Head	21.9	6400	6.01	5.96	0.84%	34.3	34.5	-0.69%
4/1/2026	Head	21.9	6450	6.08	6.02	1.01%	34.2	34.4	-0.74%
4/1/2026	Head	21.9	6500	6.15	6.08	1.18%	34.1	34.3	-0.79%
4/1/2026	Head	21.9	6550	6.22	6.14	1.29%	34.0	34.2	-0.84%
4/1/2026	Head	21.9	6600	6.29	6.20	1.44%	33.9	34.1	-0.89%
4/1/2026	Head	21.9	6650	6.36	6.26	1.60%	33.8	34.0	-0.94%
4/1/2026	Head	21.9	6700	6.43	6.32	1.76%	33.7	33.9	-1.00%
4/1/2026	Head	21.9	6750	6.50	6.38	1.92%	33.6	33.8	-1.05%
4/1/2026	Head	21.9	6800	6.57	6.44	2.09%	33.5	33.7	-1.10%
4/1/2026	Head	21.9	6850	6.64	6.50	2.26%	33.4	33.6	-1.15%
4/1/2026	Head	21.9	6900	6.71	6.56	2.43%	33.3	33.5	-1.20%
4/1/2026	Head	21.9	6950	6.78	6.62	2.60%	33.2	33.4	-1.25%
4/1/2026	Head	21.9	7000	6.85	6.68	2.77%	33.1	33.3	-1.30%
4/1/2026	Head	21.9	7050	6.92	6.74	2.94%	33.0	33.2	-1.35%
4/1/2026	Head	21.9	7100	6.99	6.80	3.11%	32.9	33.1	-1.40%
4/1/2026	Head	21.9	7150	7.06	6.86	3.28%	32.8	33.0	-1.45%
4/1/2026	Head	21.9	7200	7.13	6.92	3.45%	32.7	32.9	-1.50%
4/1/2026	Head	21.9	7250	7.20	6.98	3.62%	32.6	32.8	-1.55%
4/1/2026	Head	21.9	7300	7.27	7.04	3.79%	32.5	32.7	-1.60%
4/1/2026	Head	21.9	7350	7.34	7.10	3.96%	32.4	32.6	-1.65%
4/1/2026	Head	21.9	7400	7.41	7.16	4.13%	32.3	32.5	-1.70%
4/1/2026	Head	21.9	7450	7.48	7.22	4.30%	32.2	32.4	-1.75%
4/1/2026	Head	21.9	7500	7.55	7.28	4.47%	32.1	32.3	-1.80%
4/1/2026	Head	21.9	7550	7.62	7.34	4.64%	32.0	32.2	-1.85%
4/1/2026	Head	21.9	7600	7.69	7.40	4.81%	31.9	32.1	-1.90%
4/1/2026	Head	21.9	7650	7.76	7.46	4.98%	31.8	32.0	-1.95%
4/1/2026	Head	21.9	7700	7.83	7.52	5.15%	31.7	31.9	-2.00%
4/1/2026	Head	21.9	7750	7.90	7.58	5.32%	31.6	31.8	-2.05%
4/1/2026	Head	21.9	7800	7.97	7.64	5.49%	31.5	31.7	-2.10%
4/1/2026	Head	21.9	7850	8.04	7.70	5.66%	31.4	31.6	-2.15%
4/1/2026	Head	21.9	7900	8.11	7.76	5.83%	31.3	31.5	-2.20%
4/1/2026	Head	21.9	7950	8.18	7.82	6.00%	31.2	31.4	-2.25%
4/1/2026	Head	21.9	8000	8.25	7.88	6.17%	31.1	31.3	-2.30%
4/1/2026	Head	21.9	8050	8.32	7.94	6.34%	31.0	31.2	-2.35%
4/1/2026	Head	21.9	8100	8.39	7.99	6.51%	30.9	31.1	-2.40%
4/1/2026	Head	21.9	8150	8.46	8.06	6.68%	30.8	31.0	-2.45%
4/1/2026	Head	21.9	8200	8.53	8.12	6.85%	30.7	30.9	-2.50%
4/1/2026	Head	21.9	8250	8.60	8.18	7.02%	30.6	30.8	-2.55%
4/1/2026	Head	21.9	8300	8.67	8.24	7.19%	30.5	30.7	-2.60%
4/1/2026	Head	21.9	8350	8.74	8.30	7.36%	30.4	30.6	-2.65%
4/1/2026	Head	21.9	8400	8.81	8.36	7.53%	30.3	30.5	-2.70%
4/1/2026	Head	21.9	8450	8.88	8.42	7.70%	30.2	30.4	-2.75%
4/1/2026	Head	21.9	8500	8.95	8.48	7.87%	30.1	30.3	-2.80%
4/1/2026	Head	21.9	8550	9.02	8.54	8.04%	30.0	30.2	-2.85%
4/1/2026	Head	21.9	8600	9.09	8.60	8.21%	29.9	30.1	-2.90%
4/1/2026	Head	21.9	8650	9.16	8.66	8.38%	29.8	30.0	-2.95%
4/1/2026	Head	21.9	8700	9.23	8.72	8.55%	29.7	29.9	-3.00%
4/1/2026	Head	21.9	8750	9.30	8.78	8.72%	29.6	29.8	-3.05%
4/1/2026	Head	21.9	8800	9.37	8.84	8.89%	29.5	29.7	-3.10%
4/1/2026	Head	21.9	8850	9.44	8.90	9.06%	29.4	29.6	-3.15%
4/1/2026	Head	21.9	8900	9.51	8.96	9.23%	29.3	29.5	-3.20%
4/1/2026	Head	21.9	8950	9.58	9.02	9.40%	29.2	29.4	-3.25%
4/1/2026	Head	21.9	9000	9.65	9.08	9.57%	29.1	29.3	-3.30%
4/1/2026	Head	21.9	9050	9.72	9.14	9.74%	29.0	29.2	-3.35%
4/1/2026	Head	21.9	9100	9.79	9.20	9.91%	28.9	29.1	-3.40%
4/1/2026	Head	21.9	9150	9.86	9.26	10.08%	28.8	29.0	-3.45%
4/1/2026	Head	21.9	9200	9.93	9.31	10.25%	28.7	28.9	-3.50%
4/1/2026	Head	21.9	9250	10.00	9.38	10.42%	28.6	28.8	-3.55%
4/1/2026	Head	21.9	9300	10.07	9.44	10.59%	28.5	28.7	-3.60%
4/1/2026	Head	21.9	9350	10.14	9.50	10.76%	28.4	28.6	-3.65%
4/1/2026	Head	21.9	9400	10.21	9.56	10.93%	28.3	28.5	-3.70%
4/1/2026	Head	21.9	9450	10.28	9.62	11.10%	28.2	28.4	-3.75%
4/1/2026	Head	21.9	9500	10.35	9.68	11.27%	28.1	28.3	-3.80%
4/1/2026	Head	21.9	9550	10.42	9.74	11.44%	28.0	28.2	-3.85%
4/1/2026	Head	21.9	9600	10.49	9.80	11.61%	27.9	28.1	-3.90%
4/1/2026	Head	21.9	9650	10.56	9.86	11.78%	27.8	28.0	-3.95%
4/1/2026	Head	21.9	9700	10.63	9.92	11.95%	27.7	27.9	-4.00%
4/1/2026	Head	21.9	9750	10.70	9.98	12.12%	27.6	27.8	-4.05%
4/1/2026	Head	21.9	9800	10.77	10.04	12.29%			

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

The SAR values were compensated for deviations between the measured and required tissue dielectric properties, as described in IEEE 1528-2013. The SAR values were applied to only scale up the measured SAR values, and not downward, per KDB Publication 865664 D01v04r04.

B.4. FCC System Validation

Per FCC KDB Publication 865664 D02 Section 2.3 a) states “SAR system validation status and system verification results should be documented in a separate section of the SAR report, or as an attachment, to confirm measurement accuracy.”

The SAR systems used for evaluating this device were validated against its performance specifications prior to the SAR measurements.

Reference dipoles were used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point.

Per FCC KDB 865664 D02, “the validation status should be documented according to the validation date(s), measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters.” A tabulated summary of the system validation status is provided accordingly:

Table 7 System Validation

System	Frequency (MHz)	Date	Probe	DAE	Probe CalF		Cond. (σ)	Perm (ϵ_r)	CW Validation			Mod Validation		
					Freq (MHz)	Tissue Type			Sensitivity	Probe Linearity	Probe Isotropy	Mod Type	Duty Factor	PAR
Gamma	13	11/14/2025	7872	1843	13	Head	0.695	52	PASS	PASS	PASS	N/A	N/A	N/A
Delta	750	12/02/2025	7853	1844	750	Head	0.872	41.83	PASS	PASS	PASS	N/A	N/A	N/A
Epsilon	750	02/24/2026	7971	1934	750	Head	0.865	45.3	PASS	PASS	PASS	N/A	N/A	N/A
Zeta	750	02/16/2026	7969	1933	750	Head	0.829	43.4	PASS	PASS	PASS	N/A	N/A	N/A
Gamma	750	08/27/2025	7872	1843	750	Head	0.9	42.2	PASS	PASS	PASS	N/A	N/A	N/A
Delta	835	12/11/2025	7853	1844	835	Head	0.87	42.5	PASS	PASS	PASS	GMSK	PASS	N/A
Gamma	835	08/27/2025	7872	1843	835	Head	0.93	41.9	PASS	PASS	PASS	GMSK	PASS	N/A
Zeta	835	02/17/2026	7969	1933	835	Head	0.884	44.7	PASS	PASS	PASS	GMSK	PASS	N/A
Zeta	1640	02/18/2026	7969	1933	1640	Head	1.27	43	PASS	PASS	PASS	TDD	PASS	N/A
Zeta	1750	02/12/2026	7969	1933	1750	Head	1.25	38.3	PASS	PASS	PASS	N/A	N/A	N/A
Beta	1750	01/23/2026	7857	1838	1750	Head	1.31	39.7	PASS	PASS	PASS	N/A	N/A	N/A
Zeta	1900	02/12/2026	7969	1933	1900	Head	1.33	38	PASS	PASS	PASS	GMSK	PASS	N/A
Beta	1900	01/23/2026	7857	1838	1900	Head	1.39	39.5	PASS	PASS	PASS	GMSK	PASS	N/A
Gamma	2300	08/22/2025	7872	1843	2300	Head	1.713	39.641	PASS	PASS	PASS	N/A	N/A	N/A
Zeta	2450	02/13/2026	7969	1933	2450	Head	1.7	37.2	PASS	PASS	PASS	OFDM	N/A	PASS
Delta	2450	12/11/2025	7853	1844	2450	Head	1.8	39.9	PASS	PASS	PASS	OFDM	N/A	PASS
Delta	2600	12/10/2025	7853	1844	2600	Head	1.9	37.2	PASS	PASS	PASS	TDD	PASS	N/A
Gamma	2600	08/22/2025	7872	1843	2600	Head	1.943	39.21	PASS	PASS	PASS	TDD	PASS	N/A
Zeta	2600	02/13/2026	7969	1933	2600	Head	1.82	37	PASS	PASS	PASS	TDD	PASS	N/A
Epsilon	3500	02/23/2026	7971	1934	3500	Head	2.8	40.3	PASS	PASS	PASS	TDD	PASS	N/A
Delta	3500	12/04/2025	7853	1844	3500	Head	2.79	39.6	PASS	PASS	PASS	TDD	PASS	N/A
Epsilon	3700	02/23/2026	7971	1934	3700	Head	3	40	PASS	PASS	PASS	TDD	PASS	N/A
Delta	3700	12/04/2025	7853	1844	3700	Head	2.98	39.3	PASS	PASS	PASS	TDD	PASS	N/A
Epsilon	3900	02/23/2026	7971	1934	3900	Head	3.21	39.7	PASS	PASS	PASS	TDD	PASS	N/A
Delta	3900	12/04/2025	7853	1844	3900	Head	3.19	39	PASS	PASS	PASS	TDD	PASS	N/A
Beta	5250	01/28/2026	7857	1838	5250	Head	4.6	35.2	PASS	PASS	PASS	OFDM	N/A	PASS
Beta	5600	01/29/2026	7857	1838	5600	Head	4.97	34.5	PASS	PASS	PASS	OFDM	N/A	PASS
Beta	5750	01/29/2026	7857	1838	5750	Head	5.16	34.2	PASS	PASS	PASS	OFDM	N/A	PASS
Beta	5850	01/29/2026	7857	1838	5850	Head	5.26	34	PASS	PASS	PASS	OFDM	N/A	PASS
Beta	6500	01/29/2026	7857	1838	6500	Head	6.04	32.7	PASS	PASS	PASS	OFDM	N/A	PASS
Beta	8000	04/14/2026	7857	1838	8000	Head	7.524	29.867	PASS	PASS	PASS	N/A	N/A	N/A

NOTE: The probes have been calibrated for both CW and modulated signals. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01 for scenarios when CW probe calibrations are used with other signal types.

SAR systems were additionally validated for modulated signals with a periodic duty cycle or with a high PAR (peak to average ratio) >5 dB, such as OFDM according to FCC KDB Publication 865664 D01 v01r04.

TSL recipes are proprietary to SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer data sheets are provided below.



Measurement Certificate / Material Test

Item Name Head Tissue Simulating Liquid (HBL600-10000V6)
Product No. SL AAH U16 BC (Batch: 230912-5)
Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

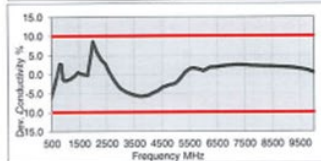
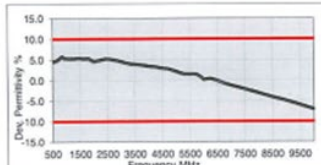
Ambient Condition 22°C ; 30% humidity
TSL Temperature 22°C
Test Date 14-Sep-23
Operator CL

Additional Information

TSL Density
TSL Heat-capacity

Results

f (MHz)	Measured			Target		Diff. to Target [%]	
	ϵ'	ϵ''	sigma	eps	sigma	$\Delta\epsilon$	$\Delta\sigma$
600	44.7	25.6	0.86	42.7	0.88	4.6	-2.5
750	44.2	21.7	0.90	41.9	0.89	5.4	0.7
800	44.0	20.7	0.92	41.7	0.90	5.6	2.5
825	44.0	20.3	0.93	41.6	0.91	5.8	2.6
835	44.0	20.1	0.94	41.5	0.91	5.9	3.1
850	43.9	19.9	0.94	41.5	0.92	5.8	2.6
900	43.8	19.2	0.95	41.5	0.97	5.5	-1.0
1400	42.8	15.2	1.15	40.6	1.18	5.4	0.0
1450	42.7	15.0	1.21	40.5	1.20	5.4	0.8
1600	42.4	14.4	1.29	40.3	1.28	5.2	0.4
1625	42.4	14.4	1.30	40.3	1.30	5.3	0.1
1640	42.4	14.3	1.31	40.3	1.31	5.3	0.3
1650	42.4	14.3	1.31	40.2	1.31	5.4	-0.2
1700	42.3	14.2	1.34	40.2	1.34	5.3	-0.2
1750	42.2	14.1	1.37	40.1	1.37	5.3	-0.1
1800	42.1	14.0	1.40	40.0	1.40	5.3	0.0
1810	42.1	13.9	1.41	40.0	1.40	5.3	0.7
1825	42.1	13.9	1.42	40.0	1.40	5.3	1.4
1850	42.1	13.9	1.43	40.0	1.40	5.3	2.1
1900	42.0	13.8	1.46	40.0	1.40	5.0	4.3
1950	41.9	13.7	1.49	40.0	1.40	4.7	6.4
2000	41.8	13.7	1.52	40.0	1.40	4.5	8.6
2050	41.8	13.6	1.55	39.9	1.44	4.7	7.3
2100	41.7	13.6	1.59	39.8	1.49	4.7	6.8
2150	41.6	13.6	1.62	39.7	1.53	4.7	5.7
2200	41.6	13.5	1.66	39.6	1.58	4.9	5.2
2250	41.5	13.5	1.69	39.6	1.62	4.9	4.2
2300	41.4	13.5	1.73	39.5	1.67	4.9	3.8
2350	41.4	13.5	1.77	39.4	1.71	5.1	3.4
2400	41.3	13.6	1.81	39.3	1.76	5.1	3.1
2450	41.2	13.6	1.85	39.2	1.80	5.1	2.8
2500	41.2	13.6	1.89	39.1	1.85	5.3	1.9
2550	41.1	13.6	1.93	39.1	1.91	5.2	1.1
2600	41.0	13.6	1.97	39.0	1.96	5.1	0.3



2600	39.4	14.1	2.75	37.9	2.91	3.9	-5.5
2700	39.1	14.3	2.94	37.7	3.12	3.7	-5.8
2800	36.6	16.0	4.62	36.0	4.66	1.7	-0.8
2850	36.5	16.1	4.69	35.9	4.71	1.6	-0.3
2900	36.4	16.2	4.76	35.9	4.76	1.5	0.1
2950	36.2	16.4	5.03	35.6	4.96	1.5	1.3
3000	36.1	16.5	5.14	35.5	5.07	1.5	1.5
3050	35.9	16.5	5.25	35.4	5.17	1.5	1.6
3100	35.7	16.6	5.34	35.3	5.27	1.2	1.4
3150	35.1	16.5	5.52	35.1	5.48	0.2	0.9
3200	34.4	17.1	6.19	34.5	6.07	-0.1	1.9
3250	33.5	17.5	6.81	33.9	6.65	-1.3	2.4
3300	32.6	17.8	7.41	33.3	7.24	-2.1	2.4
3350	31.7	18.0	8.01	32.7	7.84	-3.1	2.2
3400	30.8	18.2	8.62	32.1	8.45	-4.1	2.0
3450	30.0	18.5	9.24	31.5	9.08	-4.9	1.9
3500	29.1	18.6	9.85	31.0	9.71	-5.9	1.4
3550	28.2	18.7	10.41	30.4	10.36	-7.0	0.5

Figure 2 - Head TSL Calibration Certificate Example (600 – 10000 MHz)