

Measurement Certificate / Material Test

Item Name **Head Tissue Simulating Liquid (HSL750V2)**
 Product No. SL AAH 075 AA (Charge: 140210-5)
 Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated OCP probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

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

Test Condition

Ambient Environment temperatur (22 ± 3)°C and humidity < 70%.
 TSL Temperature 22°C
 Test Date 12-Feb-14
 Operator IEN

Additional Information

TSL Density 1.284 g/cm³
 TSL Heat-capacity 2.701 kJ/(kg*K)

f [MHz]	Measured			Target		Diff.to Target [%]	
	HP-e'	HP-e''	sigma	eps	sigma	Δ -eps	Δ -sigma
600	44.4	23.49	0.78	42.7	0.88	3.9	-11.1
625	44.1	23.23	0.81	42.6	0.88	3.5	-8.6
650	43.7	22.96	0.83	42.5	0.89	3.0	-6.2
675	43.3	22.68	0.85	42.3	0.89	2.4	-4.1
700	42.9	22.40	0.87	42.2	0.89	1.7	-1.9
725	42.6	22.25	0.90	42.1	0.89	1.3	0.7
750	42.3	22.10	0.92	41.9	0.89	0.9	3.2
775	42.0	21.89	0.94	41.8	0.90	0.4	5.4
800	41.6	21.67	0.96	41.7	0.90	-0.1	7.5
825	41.3	21.55	0.99	41.6	0.91	-0.6	9.0
838	41.2	21.49	1.00	41.5	0.91	-0.8	9.8
850	41.1	21.42	1.01	41.5	0.92	-1.1	10.6
875	40.8	21.29	1.04	41.5	0.94	-1.8	9.9
900	40.5	21.15	1.06	41.5	0.97	-2.5	9.2
925	40.2	21.01	1.08	41.5	0.98	-3.1	10.0
950	39.9	20.87	1.10	41.4	0.99	-3.7	10.9
975	39.6	20.79	1.13	41.4	1.00	-4.3	12.2
1000	39.4	20.71	1.15	41.3	1.01	-4.8	13.5

