

## Head Tissue Simulating Liquids

| Head Tissue                                  | Parameters according to IEEE Std 1528-2013 / IEC 62209 / FCC KDB 865664 D01 |                             |                         |
|--|---|-----------------------------|-------------------------|
| <b>Narrow-Band Solutions (±5% tolerance)</b> | <b>Product</b>  | <b>Test Frequency (MHz)</b> | <b>Main Ingredients</b> |
|  | HSL300V2  | 300                         | Water, Sugar            |
|  | HSL450V2  | 450                         | Water, Sugar            |
|  | HSL750V2  | 750                         | Water, Sugar            |
|  | HSL900V2  | 835, 900                    | Water, Sugar            |
|  | HSL1450V2   | 1450, 1500, 1640            | Water, DGBE             |
|  | HSL1750V2   | 1750                        | Water, DGBE             |
|  | HSL1800V2   | 1800, 1900                  | Water, DGBE             |
|  | HSL1900V2   | 1900                        | Water, DGBE             |
|  | HSL1950V2   | 1950, 2000                  | Water, DGBE             |
| HSL2450V2                                    | 2450, 2600  | Water, DGBE                 |                         |
| <b>Broad-Band Solutions (±5% tolerance)</b>  | <b>Product</b>  | <b>Test Frequency (MHz)</b> | <b>Main Ingredients</b> |
|  | HBBL30-250V3  | 30-250                      | Water, Tween            |
|  | HBBL1350-1850V3   | 1400-1800                   | Water, Tween            |
|  | HBBL1550-1950V3   | 1750-1900                   | Water, Tween            |
|  | HBBL1900-3800V3   | 1950-3000                   | Water, Tween            |
| HBBL3500-5800V5                              | 3500-5800   | Water, Oil                  |                         |

## Body Tissue Simulating Liquids

| Body Tissue (Muscle)                         | Parameters according to FCC KDB 865664 D01 |                             |                         |
|--|--|-----------------------------|-------------------------|
| <b>Narrow-Band Solutions (±5% tolerance)</b> | <b>Product</b>                             | <b>Test Frequency (MHz)</b> | <b>Main Ingredients</b> |
|  | MSL300V2                                   | 300                         | Water, Sugar            |
|  | MSL450V2                                   | 400, 450                    | Water, Sugar            |
|  | MSL750V2                                   | 750                         | Water, Sugar            |
|  | MSL900V2                                   | 835, 900                    | Water, Sugar            |
|  | MSL1450V2                                  | 1450, 1500, 1640            | Water, DGBE             |
|  | MSL1750V2                                  | 1750                        | Water, DGBE             |
|  | MSL1800V2                                  | 1800, 1900                  | Water, DGBE             |
|  | MSL1900V2                                  | 1900                        | Water, DGBE             |
|  | MSL1950V2                                  | 1950, 2100                  | Water, DGBE             |
| MSL2450V2                                    | 2450, 2600                                 | Water, DGBE                 |                         |
| <b>Broad-Band Solutions (±5% tolerance)</b>  | <b>Product</b>                             | <b>Test Frequency (MHz)</b> | <b>Main Ingredients</b> |
|  | MBBL130-250V3                              | 130-250                     | Water, Tween            |
|  | MBBL1350-1850V3                            | 1350-1800                   | Water, Tween            |
|  | MBBL1550-1950V3                            | 1550-1850                   | Water, Tween            |
|  | MBBL1900-3800V3                            | 1950-3800                   | Water, Tween            |
| MBBL3500-5800V5                              | 3500-5800                                  | Water, Oil                  |                         |

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**Measurement Certificate / Material Test**

|              |   |
|--------------|---|
| Item Name    | <b>Head Tissue Simulating Liquid (HSL750V2)</b> |
| Product No.  | SL AAH 075 AA (Charge: 140903-3)                |
| 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.

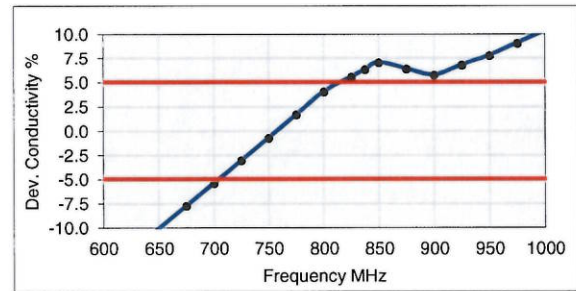
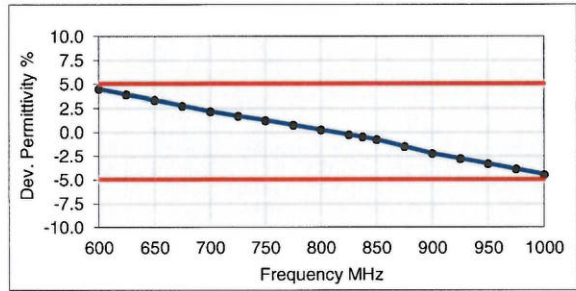
**Test Condition**

|                 |   |
|-----------------|---|
| Ambient         | Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%. |
| TSL Temperature | 22°C  |
| Test Date       | 10-Sep-14   |
| Operator        | CL  |

**Additional Information**

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.284 g/cm <sup>3</sup> |
| 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        | 44.6        | 22.48        | 0.75        | 42.7        | 0.88        | 4.5                | -14.9       |
| 625        | 44.3        | 22.25        | 0.77        | 42.6        | 0.88        | 3.9                | -12.5       |
| 650        | 43.9        | 22.03        | 0.80        | 42.5        | 0.89        | 3.4                | -10.1       |
| 675        | 43.5        | 21.82        | 0.82        | 42.3        | 0.89        | 2.8                | -7.7        |
| 700        | 43.1        | 21.61        | 0.84        | 42.2        | 0.89        | 2.2                | -5.4        |
| 725        | 42.8        | 21.43        | 0.86        | 42.1        | 0.89        | 1.7                | -3.0        |
| <b>750</b> | <b>42.5</b> | <b>21.26</b> | <b>0.89</b> | <b>41.9</b> | <b>0.89</b> | <b>1.3</b>         | <b>-0.7</b> |
| 775        | 42.1        | 21.12        | 0.91        | 41.8        | 0.90        | 0.8                | 1.7         |
| 800        | 41.8        | 20.98        | 0.93        | 41.7        | 0.90        | 0.3                | 4.0         |
| 825        | 41.5        | 20.86        | 0.96        | 41.6        | 0.91        | -0.2               | 5.6         |
| 838        | 41.3        | 20.80        | 0.97        | 41.5        | 0.91        | -0.5               | 6.3         |
| 850        | 41.2        | 20.74        | 0.98        | 41.5        | 0.92        | -0.7               | 7.0         |
| 875        | 40.9        | 20.61        | 1.00        | 41.5        | 0.94        | -1.5               | 6.4         |
| 900        | 40.6        | 20.49        | 1.03        | 41.5        | 0.97        | -2.2               | 5.8         |
| 925        | 40.3        | 20.39        | 1.05        | 41.5        | 0.98        | -2.8               | 6.8         |
| 950        | 40.1        | 20.28        | 1.07        | 41.4        | 0.99        | -3.3               | 7.8         |
| 975        | 39.8        | 20.20        | 1.10        | 41.4        | 1.00        | -3.9               | 9.1         |
| 1000       | 39.5        | 20.13        | 1.12        | 41.3        | 1.01        | -4.5               | 10.3        |



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**Measurement Certificate / Material Test**

|              |  |
|--------------|--|
| Item Name    | Head Tissue Simulating Liquid (HSL900V2) |
| Product No.  | SL AAH 090 BB (Charge: 140818-1)         |
| 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.

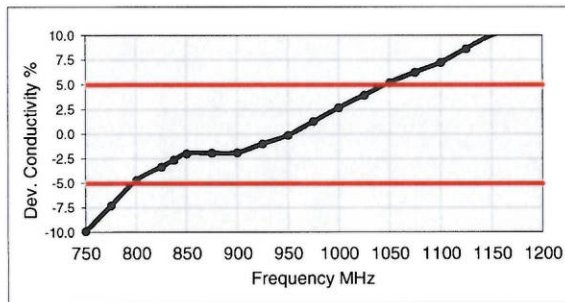
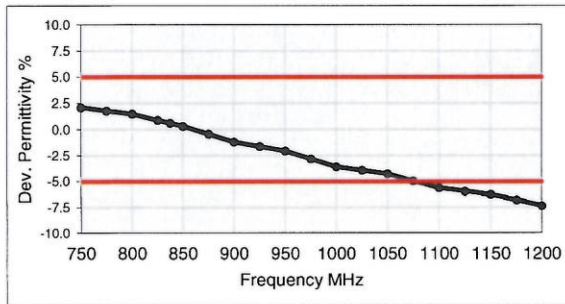
**Test Condition**

|                 |   |
|-----------------|---|
| Ambient         | Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%. |
| TSL Temperature | 22°C  |
| Test Date       | 20-Aug-14   |
| Operator        | IEN   |

**Additional Information**

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.280 g/cm <sup>3</sup> |
| TSL Heat-capacity | 2.942 kJ/(kg*K)         |

| f [MHz] | Measured |        |       | Target |       | Diff.to Target [%] |                 |
|---------|----------|--------|-------|--------|-------|--------------------|-----------------|
|         | HP-e'    | HP-e'' | sigma | eps    | sigma | $\Delta$ -eps      | $\Delta$ -sigma |
| 700     | 43.7     | 19.64  | 0.76  | 42.2   | 0.89  | 3.5                | -14.0           |
| 725     | 43.3     | 19.47  | 0.78  | 42.1   | 0.89  | 2.8                | -11.9           |
| 750     | 42.8     | 19.30  | 0.81  | 41.9   | 0.89  | 2.1                | -9.9            |
| 775     | 42.6     | 19.26  | 0.83  | 41.8   | 0.90  | 1.8                | -7.3            |
| 800     | 42.3     | 19.21  | 0.86  | 41.7   | 0.90  | 1.5                | -4.7            |
| 825     | 42.0     | 19.10  | 0.88  | 41.6   | 0.91  | 0.9                | -3.3            |
| 838     | 41.8     | 19.05  | 0.89  | 41.5   | 0.91  | 0.6                | -2.6            |
| 850     | 41.6     | 18.99  | 0.90  | 41.5   | 0.92  | 0.3                | -2.0            |
| 875     | 41.3     | 19.00  | 0.92  | 41.5   | 0.94  | -0.4               | -1.9            |
| 900     | 41.0     | 19.01  | 0.95  | 41.5   | 0.97  | -1.2               | -1.9            |
| 925     | 40.8     | 18.90  | 0.97  | 41.5   | 0.98  | -1.6               | -1.0            |
| 950     | 40.6     | 18.79  | 0.99  | 41.4   | 0.99  | -2.1               | -0.1            |
| 975     | 40.2     | 18.76  | 1.02  | 41.4   | 1.00  | -2.8               | 1.3             |
| 1000    | 39.9     | 18.74  | 1.04  | 41.3   | 1.01  | -3.6               | 2.7             |
| 1025    | 39.7     | 18.69  | 1.07  | 41.3   | 1.03  | -3.9               | 4.0             |
| 1050    | 39.5     | 18.65  | 1.09  | 41.2   | 1.04  | -4.3               | 5.2             |
| 1075    | 39.2     | 18.58  | 1.11  | 41.2   | 1.05  | -4.9               | 6.2             |
| 1100    | 38.8     | 18.51  | 1.13  | 41.2   | 1.06  | -5.6               | 7.3             |
| 1125    | 38.7     | 18.51  | 1.16  | 41.1   | 1.07  | -5.9               | 8.6             |
| 1150    | 38.5     | 18.51  | 1.18  | 41.1   | 1.08  | -6.3               | 10.0            |
| 1175    | 38.2     | 18.40  | 1.20  | 41.0   | 1.09  | -6.8               | 10.7            |
| 1200    | 38.0     | 18.29  | 1.22  | 41.0   | 1.10  | -7.3               | 11.3            |



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## Measurement Certificate / Material Test

|              |   |
|--------------|---|
| Item Name    | Head Tissue Simulating Liquid (HBBL1550-1950V3) |
| Product No.  | SL AAH 181 AA (Charge: 140916-1)                |
| 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.

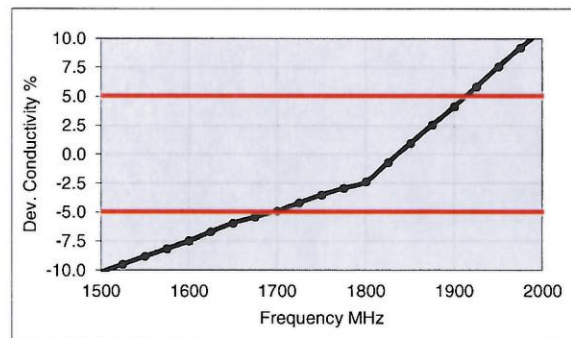
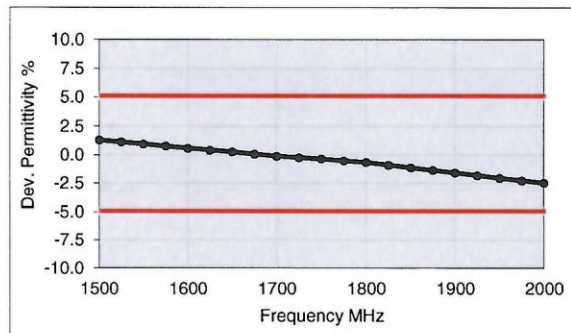
### Test Condition

|                 |   |
|-----------------|---|
| Ambient         | Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%. |
| TSL Temperature | 22°C  |
| Test Date       | 17-Sep-14   |
| Operator        | IEN   |

### Additional Information

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.052 g/cm <sup>3</sup> |
| TSL Heat-capacity | 3.322 kJ/(kg*K)         |

| f [MHz] | Measured |        |       | Target |       | Diff.to Target [%] |                 |
|---------|----------|--------|-------|--------|-------|--------------------|-----------------|
|         | HP-e'    | HP-e'' | sigma | eps    | sigma | $\Delta$ -eps      | $\Delta$ -sigma |
| 1500    | 41.0     | 13.22  | 1.10  | 40.4   | 1.23  | 1.3                | -10.2           |
| 1525    | 40.9     | 13.26  | 1.12  | 40.4   | 1.24  | 1.1                | -9.5            |
| 1550    | 40.8     | 13.29  | 1.15  | 40.4   | 1.26  | 1.0                | -8.8            |
| 1575    | 40.7     | 13.32  | 1.17  | 40.3   | 1.27  | 0.8                | -8.1            |
| 1600    | 40.6     | 13.35  | 1.19  | 40.3   | 1.28  | 0.6                | -7.5            |
| 1625    | 40.4     | 13.40  | 1.21  | 40.3   | 1.30  | 0.4                | -6.7            |
| 1650    | 40.3     | 13.46  | 1.24  | 40.2   | 1.31  | 0.3                | -5.9            |
| 1675    | 40.2     | 13.48  | 1.26  | 40.2   | 1.33  | 0.1                | -5.4            |
| 1700    | 40.1     | 13.50  | 1.28  | 40.2   | 1.34  | -0.1               | -4.9            |
| 1725    | 40.0     | 13.55  | 1.30  | 40.1   | 1.36  | -0.2               | -4.2            |
| 1750    | 39.9     | 13.59  | 1.32  | 40.1   | 1.37  | -0.3               | -3.5            |
| 1775    | 39.8     | 13.62  | 1.35  | 40.0   | 1.39  | -0.5               | -2.9            |
| 1800    | 39.7     | 13.65  | 1.37  | 40.0   | 1.40  | -0.6               | -2.4            |
| 1825    | 39.6     | 13.69  | 1.39  | 40.0   | 1.40  | -0.9               | -0.7            |
| 1850    | 39.6     | 13.74  | 1.41  | 40.0   | 1.40  | -1.1               | 1.0             |
| 1875    | 39.5     | 13.77  | 1.44  | 40.0   | 1.40  | -1.3               | 2.6             |
| 1900    | 39.4     | 13.79  | 1.46  | 40.0   | 1.40  | -1.6               | 4.1             |
| 1925    | 39.3     | 13.84  | 1.48  | 40.0   | 1.40  | -1.8               | 5.9             |
| 1950    | 39.2     | 13.88  | 1.51  | 40.0   | 1.40  | -2.0               | 7.6             |
| 1975    | 39.1     | 13.91  | 1.53  | 40.0   | 1.40  | -2.3               | 9.2             |
| 2000    | 39.0     | 13.94  | 1.55  | 40.0   | 1.40  | -2.5               | 10.8            |



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**Measurement Certificate / Material Test**

|              |   |
|--------------|---|
| Item Name    | Head Tissue Simulating Liquid (HBBL1900-3800V3) |
| Product No.  | SL AAH 196 AB (Charge: 140729-2)                |
| Manufacturer | SPEAG   |

**Measurement Method**

TSL dielectric parameters measured using calibrated OCP probe.

**Setup Validation**

Validation results were within ± 2.5% towards the target values of Methanol.

**Target Parameters**

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

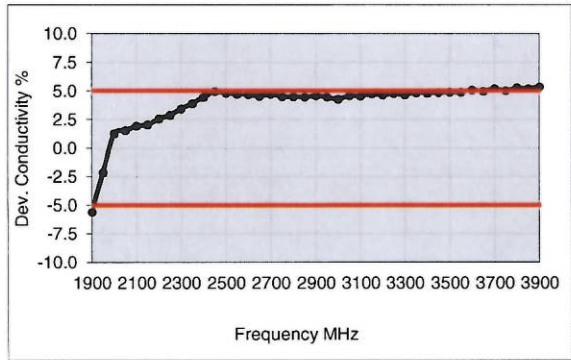
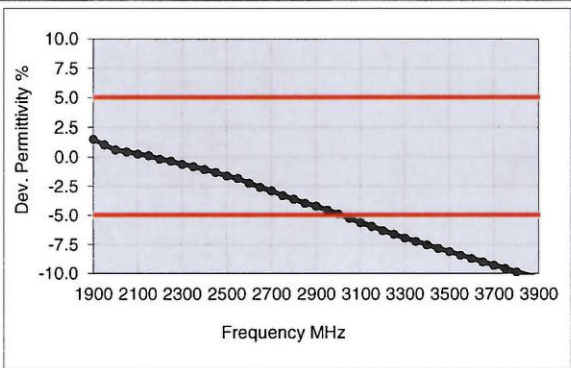
**Test Condition**

|                 |   |
|-----------------|---|
| Ambient         | Environment temperatur (22 ± 3)°C and humidity < 70%. |
| TSL Temperature | 22°C  |
| Test Date       | 30-Jul-14   |
| Operator        | CL  |

**Additional Information**

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.054 g/cm <sup>3</sup> |
| TSL Heat-capacity | 3.389 kJ/(kg*K)         |

| f [MHz] | Measured |        |       | Target |       | Diff. to Target [%] |         |
|---------|----------|--------|-------|--------|-------|---------------------|---------|
|         | HP-e'    | HP-e'' | sigma | eps    | sigma | Δ-eps               | Δ-sigma |
| 1900    | 40.6     | 12.5   | 1.3   | 40.0   | 1.4   | 1.5                 | -5.6    |
| 1950    | 40.4     | 12.6   | 1.4   | 40.0   | 1.4   | 1.1                 | -2.1    |
| 2000    | 40.3     | 12.7   | 1.4   | 40.0   | 1.4   | 0.6                 | 1.3     |
| 2050    | 40.1     | 12.9   | 1.5   | 39.9   | 1.4   | 0.5                 | 1.6     |
| 2100    | 39.9     | 13.0   | 1.5   | 39.8   | 1.5   | 0.3                 | 1.9     |
| 2150    | 39.8     | 13.1   | 1.6   | 39.7   | 1.5   | 0.1                 | 2.0     |
| 2200    | 39.6     | 13.2   | 1.6   | 39.6   | 1.6   | -0.2                | 2.6     |
| 2250    | 39.4     | 13.3   | 1.7   | 39.6   | 1.6   | -0.3                | 2.9     |
| 2300    | 39.2     | 13.5   | 1.7   | 39.5   | 1.7   | -0.6                | 3.4     |
| 2350    | 39.1     | 13.6   | 1.8   | 39.4   | 1.7   | -0.8                | 3.9     |
| 2400    | 38.9     | 13.7   | 1.8   | 39.3   | 1.8   | -1.0                | 4.5     |
| 2450    | 38.7     | 13.9   | 1.9   | 39.2   | 1.8   | -1.3                | 4.9     |
| 2500    | 38.5     | 14.0   | 1.9   | 39.1   | 1.9   | -1.6                | 4.8     |
| 2550    | 38.4     | 14.1   | 2.0   | 39.1   | 1.9   | -1.8                | 4.8     |
| 2600    | 38.1     | 14.2   | 2.1   | 39.0   | 2.0   | -2.2                | 4.7     |
| 2650    | 37.9     | 14.3   | 2.1   | 38.9   | 2.0   | -2.6                | 4.6     |
| 2700    | 37.8     | 14.5   | 2.2   | 38.9   | 2.1   | -2.9                | 4.7     |
| 2750    | 37.5     | 14.5   | 2.2   | 38.8   | 2.1   | -3.3                | 4.5     |
| 2800    | 37.4     | 14.6   | 2.3   | 38.8   | 2.2   | -3.6                | 4.5     |
| 2850    | 37.2     | 14.7   | 2.3   | 38.7   | 2.2   | -3.9                | 4.5     |
| 2900    | 37.0     | 14.9   | 2.4   | 38.6   | 2.3   | -4.2                | 4.6     |
| 2950    | 36.8     | 14.9   | 2.5   | 38.6   | 2.3   | -4.5                | 4.5     |
| 3000    | 36.6     | 15.0   | 2.5   | 38.5   | 2.4   | -4.9                | 4.3     |
| 3050    | 36.4     | 15.1   | 2.6   | 38.4   | 2.5   | -5.2                | 4.6     |
| 3100    | 36.2     | 15.2   | 2.6   | 38.4   | 2.5   | -5.6                | 4.6     |
| 3150    | 36.1     | 15.3   | 2.7   | 38.3   | 2.6   | -5.9                | 4.8     |
| 3200    | 35.9     | 15.3   | 2.7   | 38.3   | 2.6   | -6.3                | 4.7     |
| 3250    | 35.7     | 15.4   | 2.8   | 38.2   | 2.7   | -6.6                | 4.8     |
| 3300    | 35.5     | 15.4   | 2.8   | 38.2   | 2.7   | -6.9                | 4.7     |
| 3350    | 35.4     | 15.5   | 2.9   | 38.1   | 2.8   | -7.2                | 4.9     |
| 3400    | 35.2     | 15.6   | 2.9   | 38.0   | 2.8   | -7.5                | 4.8     |
| 3450    | 35.0     | 15.6   | 3.0   | 38.0   | 2.9   | -7.8                | 4.9     |
| 3500    | 34.9     | 15.7   | 3.1   | 37.9   | 2.9   | -8.1                | 4.9     |
| 3550    | 34.7     | 15.7   | 3.1   | 37.9   | 3.0   | -8.4                | 4.9     |
| 3600    | 34.5     | 15.8   | 3.2   | 37.8   | 3.0   | -8.7                | 5.1     |
| 3650    | 34.4     | 15.9   | 3.2   | 37.8   | 3.1   | -9.0                | 5.0     |
| 3700    | 34.2     | 15.9   | 3.3   | 37.7   | 3.1   | -9.3                | 5.2     |
| 3750    | 34.0     | 16.0   | 3.3   | 37.6   | 3.2   | -9.6                | 5.0     |
| 3800    | 33.9     | 16.0   | 3.4   | 37.6   | 3.2   | -9.9                | 5.3     |
| 3850    | 33.7     | 16.1   | 3.4   | 37.5   | 3.3   | -10.1               | 5.2     |



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**Measurement Certificate / Material Test**

|              |  |
|--------------|--|
| Item Name    | <b>Head Tissue Simulating Liquid (HBBL3500-5800V5)</b> |
| Product No.  | SL AAH 502 AE (Charge: 140617-1)                       |
| 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 $\pm$ 3) $^{\circ}$ C and humidity < 70%. |
| TSL Temperature | 22 $^{\circ}$ C  |
| Test Date       | 18-Jun-14  |
| Operator        | IEN  |

**Additional Information**

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 0.985 g/cm <sup>3</sup> |
| TSL Heat-capacity | 3.383 kJ/(kg*K)         |

| f [MHz] | Measured |        |       | Target |       | Diff.to Target [%] |                 |
|---------|----------|--------|-------|--------|-------|--------------------|-----------------|
|         | HP-e'    | HP-e'' | sigma | eps    | sigma | $\Delta$ -eps      | $\Delta$ -sigma |
| 3400    | 38.6     | 15.01  | 2.84  | 38.0   | 2.81  | 1.5                | 1.1             |
| 3500    | 38.5     | 14.97  | 2.91  | 37.9   | 2.91  | 1.5                | -0.1            |
| 3600    | 38.4     | 14.96  | 3.00  | 37.8   | 3.02  | 1.5                | -0.5            |
| 3700    | 38.3     | 14.95  | 3.08  | 37.7   | 3.12  | 1.6                | -1.2            |
| 3800    | 38.1     | 14.94  | 3.16  | 37.6   | 3.22  | 1.4                | -1.9            |
| 3900    | 38.0     | 14.95  | 3.24  | 37.5   | 3.32  | 1.4                | -2.5            |
| 4000    | 37.9     | 14.96  | 3.33  | 37.4   | 3.43  | 1.5                | -2.8            |
| 4100    | 37.8     | 14.98  | 3.42  | 37.2   | 3.53  | 1.5                | -3.0            |
| 4200    | 37.7     | 15.02  | 3.51  | 37.1   | 3.63  | 1.5                | -3.3            |
| 4300    | 37.6     | 15.06  | 3.60  | 37.0   | 3.73  | 1.6                | -3.5            |
| 4400    | 37.4     | 15.12  | 3.70  | 36.9   | 3.84  | 1.4                | -3.5            |
| 4500    | 37.3     | 15.17  | 3.80  | 36.8   | 3.94  | 1.4                | -3.5            |
| 4600    | 37.2     | 15.23  | 3.90  | 36.7   | 4.04  | 1.4                | -3.5            |
| 4700    | 37.0     | 15.29  | 4.00  | 36.6   | 4.14  | 1.2                | -3.4            |
| 4800    | 36.9     | 15.35  | 4.10  | 36.4   | 4.25  | 1.3                | -3.4            |
| 4850    | 36.8     | 15.39  | 4.15  | 36.4   | 4.30  | 1.1                | -3.4            |
| 4900    | 36.8     | 15.42  | 4.20  | 36.3   | 4.35  | 1.3                | -3.4            |
| 4950    | 36.7     | 15.43  | 4.25  | 36.3   | 4.40  | 1.2                | -3.4            |
| 5000    | 36.6     | 15.47  | 4.30  | 36.2   | 4.45  | 1.1                | -3.4            |
| 5050    | 36.5     | 15.49  | 4.35  | 36.2   | 4.50  | 0.9                | -3.4            |
| 5100    | 36.5     | 15.54  | 4.41  | 36.1   | 4.55  | 1.1                | -3.1            |
| 5150    | 36.4     | 15.55  | 4.46  | 36.0   | 4.60  | 1.0                | -3.1            |
| 5200    | 36.3     | 15.59  | 4.51  | 36.0   | 4.66  | 0.9                | -3.1            |
| 5250    | 36.3     | 15.61  | 4.56  | 35.9   | 4.71  | 1.0                | -3.1            |
| 5300    | 36.2     | 15.63  | 4.61  | 35.9   | 4.76  | 0.9                | -3.1            |
| 5350    | 36.1     | 15.65  | 4.66  | 35.8   | 4.81  | 0.8                | -3.1            |
| 5400    | 36.0     | 15.68  | 4.71  | 35.8   | 4.86  | 0.7                | -3.1            |
| 5450    | 36.0     | 15.70  | 4.76  | 35.7   | 4.91  | 0.8                | -3.1            |
| 5500    | 35.9     | 15.72  | 4.81  | 35.6   | 4.96  | 0.7                | -3.1            |
| 5550    | 35.8     | 15.75  | 4.86  | 35.6   | 5.01  | 0.6                | -3.1            |
| 5600    | 35.8     | 15.78  | 4.91  | 35.5   | 5.07  | 0.8                | -3.1            |
| 5650    | 35.7     | 15.82  | 4.97  | 35.5   | 5.12  | 0.6                | -2.9            |
| 5700    | 35.6     | 15.83  | 5.02  | 35.4   | 5.17  | 0.5                | -2.9            |
| 5750    | 35.5     | 15.88  | 5.08  | 35.4   | 5.22  | 0.4                | -2.7            |
| 5800    | 35.5     | 15.89  | 5.13  | 35.3   | 5.27  | 0.6                | -2.7            |
| 5850    | 35.4     | 15.92  | 5.18  | 35.3   | 5.34  | 0.3                | -2.9            |
| 5900    | 35.3     | 15.93  | 5.23  | 35.3   | 5.40  | 0.0                | -3.1            |

