UNIVERSITY OF WYOMING

POLY(IONIC LIQUID): MAGNETIC PERMITTIVITY AND PERMEABILITY

Sband

AVERAGE VALUES

FREQ	EPS-R	EPS-I	MU-R	MU-I
2.50	4.62	-.37	1.13	-.08
2.69	4.63	-.37	1.08	-.07
2.88	4.62	-.37	1.06	-.06
3.06	4.61	-.37	1.06	-.05
3.25	4.60	-.36	1.06	-.04
3.44	4.59	-.35	1.06	-.04
3.63	4.60	-.35	1.05	-.03
3.81	4.60	-.35	1.05	-.02
4.00	4.59	-.36	1.06	-.03

L01156 SPARAMETERS RN_S
201 3 Aug 2005 10:26:51

	FREQ	EPS-R	EPS-I	MU-R	MU-I
F	2.50	4.61	-.44	1.15	-.01
R	2.50	4.63	-.30	1.11	-.16
F	2.69	4.63	-.42	1.07	-.02
R	2.69	4.63	-.32	1.08	-.13
F	2.88	4.62	-.42	1.06	-.01
R	2.88	4.62	-.32	1.06	-.11
F	3.06	4.61	-.41	1.05	-.01
R	3.06	4.61	-.32	1.07	-.09
F	3.25	4.60	-.40	1.05	.00
R	3.25	4.61	-.32	1.07	-.08
F	3.44	4.59	-.39	1.05	.00
R	3.44	4.59	-.31	1.06	-.08
F	3.63	4.60	-.39	1.04	.01
R	3.63	4.59	-.32	1.06	-.06
F	3.81	4.60	-.39	1.03	.02
R	3.81	4.59	-.31	1.06	-.05
F	4.00	4.59	-.41	1.05	.02
R	4.00	4.58	-.31	1.07	-.07

Freq = frequency in GHz
EPS-R = MAGNETIC PERMITTIVITY, REAL
EPS-I = MAGNETIC PERMITTIVITY, IMAGINARY
MU-R = MAGNETIC PERMEABILITY, REAL
MU-I = MAGNETIC PERMEABILITY, IMAGINARY
F = Forward values calculated from S12&S11
R = Reverse values calculated from S21&S22

UNIVERSITY OF WYOMING

POLY(IONIC LIQUID): MAGNETIC PERMITTIVITY AND PERMEABILITY

Xband

AVERAGE VALUES

FREQ	EPS-R	EPS-I	MU-R	MU-I
8.00	4.36	-.26	1.06	.02
8.50	4.36	-.26	1.07	-.01
9.00	4.36	-.27	1.05	-.01
9.50	4.36	-.27	1.05	-.02
10.00	4.36	-.27	1.04	-.01
10.50	4.35	-.27	1.04	-.01
11.00	4.35	-.27	1.03	-.01
11.50	4.35	-.27	1.03	.00
12.00	4.37	-.31	1.04	-.01

L01155 SPARAMETERS RN_X
201 2 Aug 2005 13:55:21

	FREQ	EPS-R	EPS-I	MU-R	MU-I
F	8.00	4.35	-.41	1.10	.15
R	8.00	4.37	-.12	1.02	-.12
F	8.50	4.36	-.40	1.11	.12
R	8.50	4.36	-.12	1.02	-.14
F	9.00	4.37	-.41	1.10	.11
R	9.00	4.36	-.12	1.01	-.14
F	9.50	4.37	-.42	1.10	.11
R	9.50	4.35	-.12	1.00	-.14
F	10.00	4.37	-.42	1.09	.11
R	10.00	4.35	-.12	.99	-.13
F	10.50	4.37	-.44	1.09	.11
R	10.50	4.34	-.11	.99	-.14
F	11.00	4.36	-.44	1.09	.11
R	11.00	4.33	-.11	.98	-.13
F	11.50	4.37	-.44	1.09	.12
R	11.50	4.33	-.11	.98	-.13
F	12.00	4.40	-.47	1.09	.11
R	12.00	4.35	-.14	.99	-.13

Freq = frequency in GHz
EPS-R = MAGNETIC PERMITTIVITY, REAL
EPS-I = MAGNETIC PERMITTIVITY, IMAGINARY
MU-R = MAGNETIC PERMEABILITY, REAL
MU-I = MAGNETIC PERMEABILITY, IMAGINARY
F = Forward values calculated from S12&S11
R = Reverse values calculated from S21&S22