

APPENDIX C: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}'\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or nazardous components:								
CAS: 107-21-1	Ethanediol	>1.0-4.9%						
EINECS: 203-473-3	STOT RE 2, H373;							
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302							
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%						
EINECS: 271-781-5	Eye Irrit. 2, H319							
Reg.nr.: 01-2119527859-22-0000								
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%						
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319							
Reg.nr.: 01-2119539582-35-0000								
CAS: 68920-66-1	Alkoxylated alcohol, > C ₁₆	< 2.0%						
NLP: 500-236-9	Aquatic Chronic 2, H411;							
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319							

Additional information:

withheld as a trade secret.

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID A3LSMF936U	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX C: Page 1 of 4



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5500

-0.9 -6.3

-1.0 -6.2

-2.6 1.7

-2.7 1.9

-2.8 2.2 -3.0 3.2 -3.2 3.6

-3.3 4.2

-3.5 4.6 -3.7 5.5

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Measurement Certificate / Material Test

Item Name Body Tissue Simulating Liquid (MBBL600-6000V6)

Product No. SL AAM U16 BC (Batch: 210621-3)

Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

Test Condition

Ambient Condition 22°C; 30% humidity

TSL Temperature 22°C Test Date 23-Jun-21

Test Date 23-Jun-2 Operator WM

Additional Information

TSL Density

TSL Heat-capacity

Results

	Measu	red	HWEI	Targe	t	Diff.to Targ	get [%]	15.0					
f [MHz]	e'	e"	sigma	eps	sigma	∆-eps	∆-sigma	10.0			10111		-
600	55.7	26.7	0.89	56.1	0.95	-0.7	-6.3	» > 5.0					
750	55.3	22.5	0.94	55.5	0.96	-0.4	-2.1	0.0 5.0					
800	55.1	21.5	0.96	55.3	0.97	-0.4	-1.0	-5.0					
825	55.1	21.1	0.97	55.2	0.98	-0.3	-1.0	-5.0 >					
835	55.1	20.8	0.97	55.1	0.99	0.0	-1.5	o.10.0			SHIP		
850	55.0	20.6	0.97	55.2	0.99	-0.3	-2.0	-15.0	00	1500	2500	3500	450
900	54.9	19.9	0.99	55.0	1.05	-0.2	-5.7			1500	Freque	3500 ency MHz	
1400	54.1	15.9	1.24	54.1	1.28	0.0	-3.1	15.0	_				
1450	54.0	15.7	1.27	54.0	1.30	0.0	-2.3	10.0					
1600	53.8	15.3	1.36	53.8	1.39	0.0	-2.2	%		1	-		
1625	53.8	15.2	1.38	53.8	1.41	0.1	-2.1	Conductivity 0.0 -2.0		1	1		
1640	53.8	15.2	1.39	53.7	1.42	0.1	-2.1	onp.	Λ	ليم	1		1
1650	53.7	15.1	1.39	53.7	1.43	0.0	-2.8		10				
1700	53.7	15.0	1.42	53.6	1.46	0.3	-2.7	5-10.0		HILE	III ADI	1,13 (-	
1750	53.6	14.9	1.45	53.4	1.49	0.3	-2.7	-15.0	500	1500	2500	3500	45
1800	53.5	14.9	1.49	53.3	1.52	0.4	-2.0		,00	1300	Freque	3500 ncy MHz	
1810	53.5	14.9	1.50	53.3	1.52	0.4	-1.3	3500	50.9	15.9	3.10	51.3	3.31
1825	53.5	14.8	1.51	53.3	1.52	0.4	-0.7	3700	50.6	16.2	3.33	51.1	3.5
1850	53.5	14.8	1.52	53.3	1.52	0.4	0.0	5200	47.7	18.6	5.39	49.0	5.3
1900	53.4	14.8	1.56	53.3	1.52	0.2	2.6	5250	47.6	18.7	5.46	49.0	5.3
1950	53.4	14.7	1.60	53.3	1.52	0.2	5.3	5300	47.5	18.8	5.54	48.9	5.4
2000	53.3	14.7	1.63	53.3	1.52	0.0	7.2	5500	47.1	19.1	5.83	48.6	5.6
2050	53.3	14.7	1.67	53.2	1.57	0.1	6.4	5600	46.9	19.2	5.98	48.5	5.7
2100	53.2	14.7	1.71	53.2	1.62	0.1	5.6	5700	46.7	19.3	6.13	48.3	5.8
2150	53.1	14.7	1.75	53.1	1.66	0.0	5.4	5800	46.5	19.4	6.27	48.2	6.0
2200	53.1	14.7	1.80	53.0	1.71	0.1	5.3	6000	46.1	19.7	6.57	47.9	6.2
2250	53.0	14.7	1,84	53.0	1.76	0.1	4.5	6500					
2300	52.9	14.7		52.9	1.81	0.0	3.9	7000			4.3		
2350	52.9	14.8	1.93	52.8		0.1	4.3	7500					
2400	52.8	14.8		52.8		0.1	4.2	8000			100		
2450	52.7	14.8		52.7		0.0	3.6	8500					
2500	52.6	14.9		52.6		-0.1	2.5	9000					
2550	52.5	14.9	1000	52.6		-0.1	1.4	9500					
2600	52.5	15.0		52.5		0.0	0.0	10000					

Figure C-2 600 – 6000 MHz Body Tissue Equivalent Matter

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DUT Type: Portable Handset		APPENDIX C: Page 2 of 4



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Measurement Certificate / Material Test

Head Tissue Simulating Liquid (HBBL600-10000V6)

Product No. SL AAH U16 BC (Batch: 210629-3)

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 Operator WM

Additional Information TSL Density

TSL Heat-capacity

	Measu	ıred		Targe	et	Diff.to Tar	get [%]
f [MHz]	e'	e"	sigma	eps	sigma	∆-eps	∆-sigma
600	44.7	25.5	0.85	42.7	0.88	4.6	-3.6
750	44.1	21.6	0.90	41.9	0.89	5.1	0.7
800	44.0	20.6	0.92	41.7	0.90	5.6	2.5
825	44.0	20.2	0.93	41.6	0.91	5.8	2.6
835	44.0	20.0	0.93	41.5	0.91	5.9	2.0
850	43.9	19.8	0.93	41.5	0.92	5.8	1.5
900	43.8	19.0	0.95	41.5	0.97	5.5	-2.1
1400	42.8	15.1	1.18	40.6	1.18	5.4	0.0
1450	42.7	14.9	1.20	40.5	1.20	5.4	0.0
1600	42.4	14.4	1.28	40.3	1.28	5.2	-0.3
1625	42.4	14.3	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	42.3	14.3	1.31	40.2	1.31	5.1	-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	42.0	13.9	1.43	40.0	1.40	5.0	2.1
1900	42.0	13.8	1.46	40.0	1.40	5.0	4.3
1950	41.9	13.8	1.49	40.0	1.40	4.7	6.4
2000	41.8	13.7	1.53	40.0	1.40	4.5	9.3
2050	41.8	13.7	1.56	39.9	1.44	4.7	8.0
2100	41.7	13.7	1.59	39.8	1.49	4.7	6.8
2150	41.6	13.6	1.63	39.7	1.53	4.7	6.3
2200	41.6	13.6	1.67	39.6	1.58	4.9	5.8
2250	41.5	13.6	1.70	39.6	1.62	4.9	4.8
2300	41.4	13.6	1.74	39.5	1.67	4.9	4.4
2350	41.3	13.6	1.78	39.4	1.71	4.9	4.0
2400	41.3	13.6	1.82	39.3	1.76	5.1	3.7
2450	41.2	13.6	1.86	39.2	1.80	5.1	3.3
2500	41.1	13.6	1.90	39.1	1.85	5.0	2.5
2550	41.0	13.7	1.94	39.1	1.91	4.9	1.6
2600	41.0	13.7	1.98	39.0	1.96	5.1	0.8

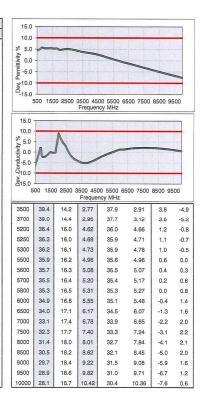


Figure C-3 600 - 1000 MHz Head Tissue Equivalent Matter

FCC ID A3LSMF936U	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX C: Page 3 of 4



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Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL4-250V3)
Product No.	SL AAH 005 AD (Batch: 210601-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK 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%.</td>

 TSL Temperature
 22°C

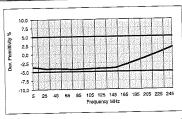
 Test Date
 3-Jun-21
 Operator WM

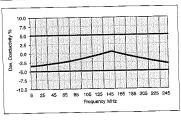
Additional Information

TSL Density 1.042 g/cm3

TSL Heat-capacity 3.574 kJ/(kg*K)

5578T) 18	Measu	ed		Target		Diff.to T	arget [%
f [MHz]	e	e"	sìgma	eps	sigma	∆∙aps	<u>A</u> -sigma
5	53.0	2603.50	0.72	55.0	0.75	-3.6	-4.0
10	52.9	1301.62	0.72	55.0	0.75	-3.8	-4.0
15	52.9	858.41	0.72	55.0	0.75	-3.8	-4.0
20	52.8	651.83	0.73	55.0	0.75	-4.0	-2.7
25	52.8	521.90	0.73	55.0	0.75	-4.0	-2.7
30	52.7	435.32	0.73	55.0	0.75	-4.2	-2.7
35	52.6	373.51	0.73	54.9	0.75	-4.2	-2.7
40	52.5	327.19	0.73	54.8	0.75	-4.2	-2.7
45	52.4	291,20	0.73	54.7	0.75	-4.1	-2.7
50	52.3	262.44	0.73	54.6	0.75	-4.1	-2.7
55	52.2	238.95	0.73	54.4	0.75	-4.1	-2.8
60	52.1	219.39	0.73	54.3	0.75	-4.1	-2.9
65	51.9	202.87	0.73	54.2	0.75	-4.3	-2.9
70	51.8	188.72	0.73	54.1	0.75	-4.3	-3.0
75	51,6	176.48	0.74	54.0	0.75	-4.4	-1.7
80	51.5	165.78	0.74	53.9	0.75	-4.4	-1.7
85	51,5	156.34	0.74	53.8	0.75	-4.2	-1.8
90	51.4	147.97	0.74	53.7	0.75	-4.2	-1.9
95	51.3	140.49	0.74	53.5	0.75	-4.2	-1.9
100	51.2	133.76	0.74	53.4	0.75	-4.2	-2.0
105	51.1	127.68	0.75	53.3	0,76	4.1	-0.7
110	51.0	122.16	0.73	5 53.2	0.76	-4.1	-0.7
115	50.9	117.13	0.75	53,1	0.76	-4.1	-0.8
120	50.8	112.52	0.7	5 53.0	0.76	-4.1	-0.9





Section Sect		45	52.4	291,20	0.73	54.7	0.75	-4.3	-2.1	ı
Sec. 2018 Sec. 27-3 Sec. 3-1 2-8		50	52.3	262.44	0.73	54.6	0.75	-4.1	-2.7	ł
65 519 202.87 0.75 64.2 0.75 -4.3 -2.9 70 51.6 188.72 0.73 54.1 0.75 -4.3 -3.0 71		55	344500100	238.95	0.73	54.4	0.75	-4.1	-2.8	l
10		60	52.1	219.39	0.73	54.3	0.75	-4.1	-2.9	1
78		1.00	51.9	202.87	0.73	54.2	0.75	-4.3	-2.9	l
78		70	51.8	188.72	0.73	54.1	0.75	-4.3	-3.0	١
86		1500050000	51.6	176.48	0.74	54.0	0.75	-4.4	-1.7	l
St.		80	51.5	165.78	0.74	53.9	0.75	-4.4	-1.7	Ì
196			51,5	156.34	0.74	53.8	0.75	-4.2	-1.8	l
	ľ	90	51.4	147.97	0.74	53.7	0.75	-4.2	-1.9	İ
100 51.0 127.66 0.75 53.3 0.76 4.1 -0.7 110 51.0 122.16 0.75 53.2 0.76 -4.1 -0.8 120 50.8 112.52 0.75 53.0 0.76 -4.1 -0.9 120 50.8 112.52 0.75 53.0 0.76 -4.1 -0.9 120 50.7 109.28 0.75 52.9 0.76 -4.1 -0.9 120 50.7 109.28 0.75 52.9 0.76 -4.1 -0.9 130 50.5 100.76 0.76 52.6 0.76 -4.1 -0.2 140 50.4 97.41 0.76 52.5 0.76 -4.1 0.2 145 50.3 94.90 0.76 52.6 0.76 -4.0 0.2 150 50.2 91.39 0.76 52.2 0.76 -4.0 0.2 150 50.2 91.39 0.76 52.2 0.76 -4.0 0.2 150 50.2 91.39 0.76 52.2 0.76 -4.0 0.2 150 50.0 80.14 0.77 51.8 0.77 -3.1 0.5 150 50.0 80.14 0.77 51.8 0.77 -3.1 0.5 151 50.0 80.14 0.77 51.8 0.77 -3.1 0.5 150 40.8 70.40 0.77 51.1 0.78 -2.6 -0.9 150 40.7 77.41 0.76 50.9 0.73 2.4 -0.1 151 40.4 70.6 70.6 50.0 0.70 -1.6 -1.5 100 49.5 72.74 0.76 50.4 0.79 -1.8 -1.5 100 49.5 72.74 0.76 50.4 0.79 -1.8 -1.5 100 49.5 70.46 0.76 50.0 0.90 -1.3 -2.0 200 40.3 70.46 0.76 50.0 0.91 -1.3 -2.0 201 40.3 64.90 0.79 49.5 0.80 -3.5 -2.1 202 49.3 64.90 0.79 49.5 0.80 0.5 -1.5 203 49.2 65.55 0.86 48.8 0.81 0.2 -1.7 204 48.8 61.20 0.80 48.8 0.81 0.2 -1.7 205 48.8 61.20 0.80 48.1 0.82 1.2 -2.0 205 48.8 61.20 0.80 48.1 0.82 1.2 -2.0 205 48.8 61.20 0.80 48.1 0.82 1.2 -2.0 205 48.8 61.20 0.80 47.9 0.83 1.5 -3.4 206 48.5 68.55 0.80 47.9 0.83 1.5 -3.4 207 48.8 63.55 0.80 47.9 0.83 1.5 -3.4 208 48.5 68.55 0.80 47.9 0.83 1.5 -3.4 208 48.5 68.55 0.80 47.9 0.83 1.5 -3.4 209 49.5 59.50 0.80 47.9 0.83 1.5 -3.4 200 40.3 67.50 67.50 6		95	51.3	140.49	0.74	53.5	0.75	-4.2	-1.9	ļ
100 51.0 122.16 0.75 53.2 0.76 4.1 0.7 116 50.3 117.13 0.75 53.1 0.76 4.1 0.8 125 50.6 117.23 0.75 52.8 0.76 4.1 0.9 126 50.5 112.62 0.75 52.8 0.76 4.1 0.9 127 50.7 108.26 0.75 52.8 0.76 4.1 0.9 130 50.5 104.57 0.75 52.8 0.76 4.1 0.3 140 50.4 97.41 0.76 52.5 0.76 4.1 0.3 140 50.4 97.41 0.76 52.5 0.76 4.1 0.3 140 50.4 97.41 0.76 52.5 0.76 4.1 0.2 145 50.3 94.0 0.76 52.5 0.76 4.1 0.2 146 50.2 91.30 0.76 52.5 0.76 4.1 0.2 155 50.1 88.89 0.76 52.1 0.76 -3.8 0.5 156 50.0 88.14 0.77 51.8 0.77 -3.5 0.5 157 49.9 68.14 0.77 51.8 0.77 -3.5 0.5 158 50.0 83.75 0.77 51.8 0.77 -2.9 -0.5 159 40.5 77.40 0.77 51.1 0.78 -2.6 -0.5 150 40.5 77.40 0.76 50.4 0.79 -1.6 -1.0 159 40.5 77.4 0.76 50.4 0.79 -1.6 -1.0 159 40.5 70.46 0.76 50.0 0.50 -1.5 -1.0 159 40.2 67.49 0.79 49.5 0.80 0.16 -1.5 150 40.5 70.6 0.76 50.0 0.50 -1.5 -1.0 150 40.5 70.6 0.76 50.0 0.50 -1.5 -1.0 150 40.5 70.6 0.76 50.0 0.50 -1.5 -1.0 150 40.5 64.50 0.79 49.5 0.80 0.5 -1.5 150 40.5 64.50 0.79 49.5 0.80 0.5 -1.5 150 40.5 64.50 0.79 49.5 0.80 0.5 -1.5 150 40.5 64.50 0.79 49.5 0.80 0.5 -1.5 150 40.5 64.50 0.78 49.0 0.51 0.1 -1.2 150 44.5 62.55 0.80 48.5 0.81 0.2 -1.7 150 44.6 62.35 0.80 48.5 0.81 0.2 -1.7 150 44.6 62.35 0.80 48.5 0.81 0.2 -1.7 150 44.6 62.35 0.80 48.5 0.81 0.2 -1.7 150 44.6 62.35 0.80 48.5 0.81 0.2 -1.7 150 44.6 62.55 0.80 48.5 0.81 0.1 0.2 -1.7 150 44.6 62.55 0.80 48.5 0.81 0.1 0.2 -1.7 150 44.6 62.55 0.80 48.5 0.8	ŀ	100	51.2	133.76	0.74	53.4	0.75	-4,2	-2.0	ı
118	l	105	51.1	127.68	0.75	53.3	0,76	-4.1	-0.7	l
120 50.6 112.52 0.75 53.0 0.76 4.1 -0.9 1225 50.7 108.28 0.75 52.9 0.76 4.1 -0.9 130 50.6 10.537 0.75 52.8 0.76 4.1 -0.9 130 50.5 100.76 0.76 52.8 0.76 4.1 -0.9 130 50.5 100.76 0.76 52.5 0.76 4.1 0.3 146 50.3 94.30 0.76 52.5 0.76 4.1 0.2 150 50.2 91.39 0.76 52.1 0.76 4.0 0.2 150 50.2 91.39 0.76 52.1 0.76 4.0 0.2 150 50.1 68.68 0.76 52.1 0.76 4.8 0.9 155 50.1 68.68 0.76 52.1 0.76 4.8 0.9 150 50.0 83.75 0.77 51.8 0.77 4.5 0.5 150 50.0 83.75 0.77 51.8 0.77 4.5 0.5 150 50.0 83.75 0.77 51.8 0.77 4.3 0.9 150 50.0 90.7 151 90.7 4.9 150 50.0 90.7 151 0.76 50.0 90.7 151 90.7 151 0.76 50.0 90.7 151 9	l	110	51.0	122.16	0.75	53.2	0.76	-4.1	-0.7	ı
123 50.7 108.28 0.75 52.9 0.76 4.1 -0.8 130 50.5 104.37 0.75 52.8 0.76 4.1 -0.9 1365 50.5 104.37 0.75 52.8 0.76 4.1 -0.2 1440 50.4 97.41 0.76 52.5 0.76 4.1 0.2 1446 50.4 97.41 0.76 52.5 0.76 4.1 0.2 1455 50.3 94.30 0.76 52.4 0.76 4.0 0.1 195 50.1 88.68 0.76 52.1 0.76 4.0 0.1 195 50.1 88.76 0.77 51.8 0.77 -3.5 0.3 195 50.0 88.76 0.77 51.8 0.77 -3.5 0.0 195 50.0 88.76 0.77 51.8 0.77 -3.5 0.0 195 50.0 88.76 0.77 51.8 0.77 -3.1 0.0 195 50.0 88.75 0.77 51.8 0.77 -2.9 -0.5 175 49.8 78.40 0.77 51.1 0.78 -2.6 -0.1 195 49.5 78.40 0.77 51.1 0.78 -2.6 -0.5 195 49.5 195 0.77 51.1 0.77 -2.9 -0.5 195 0.78 77.41 0.76 50.9 0.78 -2.4 -0.1 195 49.5 78.74 0.77 50.0 0.80 1.1 -0.6 195 49.5 78.74 0.78 50.0 0.80 1.1 -0.6 195 49.5 0.70 195 0.78 0.0 0.0 1.1 -0.6 195 49.5 0.80 0.78 50.0 0.80 1.1 -0.5 1.5 20.0 49.3 70.46 0.78 50.0 0.80 1.1 -1.5 20.0 49.3 70.46 0.78 50.0 0.80 1.1 -1.5 20.0 49.3 6.1 0.79 49.5 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.78 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.78 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.6 1.1 -1.5 20.0 49.0 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0	ì	115	50.9	117,13	0.75	53,1	0.76	-4.1	-0.8	ì
130 50.6 104.57 0.75 52.8 0.76 4.1 1.0 136 50.5 100.76 0.76 52.6 0.76 4.1 0.2 146 50.4 97.41 0.76 52.6 0.76 4.1 0.2 146 50.4 97.41 0.76 52.6 0.76 4.1 0.2 150 50.2 91.39 0.76 52.4 0.76 4.0 0.2 150 50.2 91.39 0.76 52.3 0.76 4.0 0.2 150 50.2 88.83 0.76 52.1 0.76 4.8 0.3 160 50.0 56.14 0.77 51.8 0.77 4.5 0.5 150 50.0 58.14 0.77 51.8 0.77 4.5 0.5 151 49.8 78.40 0.77 51.1 0.76 2.2 0.5 150 49.7 77.41 0.78 50.9 0.78 2.4 0.1 151 49.8 75.20 0.76 50.7 0.78 2.4 0.1 152 49.7 77.41 0.78 50.9 0.78 2.4 0.1 153 49.8 75.20 0.76 50.2 0.79 1.8 0.1 150 49.3 70.46 0.76 50.2 0.79 1.8 0.1 150 49.3 70.46 0.76 50.0 0.80 1.3 2.0 200 49.3 70.46 0.76 50.0 0.80 1.3 2.0 201 49.2 63.84 0.79 49.5 0.80 0.6 1.1 202 49.0 64.80 0.79 49.3 0.81 0.3 2.1 203 49.8 64.80 0.79 49.3 0.81 0.3 2.1 204 48.6 63.20 0.80 48.8 0.81 0.2 1.7 205 48.6 61.20 0.80 48.8 0.81 0.2 2.1 206 49.6 63.55 0.86 48.8 0.81 0.2 2.1 207 48.6 63.25 0.80 48.8 0.81 0.2 2.1 208 48.6 61.20 0.80 48.1 0.82 1.2 2.6 209 48.6 63.50 0.80 48.1 0.82 1.2 2.6 200 49.8 63.55 0.80 48.1 0.82 1.2 2.6 201 48.6 63.25 0.80 48.1 0.82 1.2 2.6 202 48.6 63.25 0.80 48.1 0.82 1.2 2.6 203 48.6 63.20 0.80 47.9 0.83 1.5 3.4 204 48.7 60.11 0.80 47.9 0.83 1.5 3.4 205 49.5 69.5 0.80 47.9 0.83 1.5 3.4 207 208 48.5 69.5 0.80 47.9 0.83 1.5 3.4 208 49.5 49.5 69.5 0.80 47.9 0.83 1.5 3.4 208 49.5 49.5 69.5 0.80 47.9 0.83 1.5 3.4 209 49.5 49.5 69.5 0.80 47.9 0.83 1.5 3.4 200		120	50.8	112.52	0.75	53.0	0.76	-4.1	-0.9	١
135 50.5 100.76 10.76 52.5 0.76 4.1 0.3 140 50.4 97.41 0.76 52.5 0.76 4.1 0.2 145 50.3 94.30 0.76 52.5 0.76 4.1 0.2 150 50.2 91.39 0.76 52.3 0.76 4.0 0.2 150 50.2 91.39 0.76 52.3 0.76 4.3 0.2 150 50.2 91.39 0.76 52.3 0.76 4.3 0.5 150 50.0 58.14 0.77 51.8 0.77 -3.5 0.5 150 50.0 83.75 0.77 51.8 0.77 -3.5 0.5 151 50.0 83.75 0.77 51.8 0.77 -3.5 0.5 151 40.9 70.40 0.77 51.8 0.77 -2.9 0.5 151 40.9 70.40 0.77 51.1 0.76 2.6 0.9 150 40.7 77.41 0.76 50.9 0.78 2.4 0.1 150 40.5 70.24 0.76 50.2 0.79 1.8 -1.0 151 40.4 72.08 0.76 50.2 0.79 -1.5 -1.5 152 40.2 57.40 0.76 50.2 0.79 -1.5 -1.0 153 40.4 72.08 0.76 50.2 0.79 -1.5 -1.5 250 40.2 67.40 0.79 49.5 0.80 0.6 -1.5 251 40.3 61.11 0.79 49.3 0.81 -3.3 -2.1 252 48.9 64.80 0.79 49.0 0.11 -1.2 252 48.8 61.20 0.80 48.8 0.81 0.2 -1.7 253 48.8 61.20 0.80 48.1 0.82 1.0 -2.4 246 46.7 60.11 0.80 48.1 0.82 1.2 -2.0 246 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 246 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 247 485 50.05 0.80 47.9 0.83 1.5 -3.4 248 485 50.05 0.80 47.9 0.83 1.5 -3.4 249 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 485	Ì	125	50.7	108.28	0.75	52.9	0.76	-4.1	-0.9	ì
140 50.4 97.4 0.76 52.5 0.78 4.1 0.2 145 50.3 94.30 0.76 52.4 0.78 4.0 0.1 150 50.2 91.30 0.76 52.4 0.78 4.0 0.1 150 50.2 91.30 0.76 52.1 0.76 4.8 0.3 150 50.0 88.18 0.77 51.8 0.77 4.5 0.5 150 50.0 88.75 0.77 51.8 0.77 -3.5 0.5 170 49.9 81.51 0.77 51.8 0.77 -2.9 0.5 170 49.9 81.51 0.77 51.4 0.77 -2.9 0.5 170 49.9 77.41 0.78 50.9 0.78 2.4 -0.1 180 49.5 73.74 0.78 50.4 0.79 -1.8 -1.5 180 49.5 73.74 0.78 50.4 0.79 -1.8 -1.5 180 49.5 73.74 0.78 50.4 0.79 -1.8 -1.5 200 49.3 70.46 0.78 50.0 0.80 -1.1 201 49.2 67.40 0.79 49.5 0.80 -1.1 202 49.0 64.80 0.79 49.5 0.80 -1.1 203 49.0 64.80 0.79 49.5 0.80 0.6 -1.8 204 49.5 63.55 0.80 48.8 0.81 0.2 -1.7 205 48.8 61.20 0.80 48.5 0.82 0.5 -2.1 206 48.8 61.20 0.80 48.5 0.82 0.5 -2.1 207 48.8 51.50 0.80 48.1 0.82 1.2 -3.0 208 48.5 50.50 0.80 47.9 0.83 1.5 -3.4 208 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 208 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 209 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 48.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 49.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 49.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 49.5 50.55 0.80 47.9 0.83 1.5 -3.4 200 49.5	Į	130	50.6	104.37	0.75	52.8	0.76	-4.1	-1.0	
145 50.3 94.50 0.76 52.4 0.76 4.0 0.2 150 50.2 91.39 1.076 52.4 0.76 4.0 0.2 155 50.1 68.80 0.76 52.2 0.76 4.0 0.3 155 50.1 68.80 0.76 52.1 0.76 -3.8 -0.3 156 50.0 85.14 0.77 51.8 0.77 -3.5 0.5 157 4.9 0.5 15.1 0.77 4.1 0.5 15.1 0.77 4.1 0.5 15.1 0.77 4.1 0.77 4.1 0.77 4.1 0.77 4.1 0.77 4.1 0.77 4.1 0.77 4.1 0.78 50.5 0.78 -2.4 -0.1 180 49.7 77.41 0.78 50.5 0.78 -2.4 -0.1 185 49.6 75.52 0.78 50.7 0.78 -2.1 0.6 150 49.5 72.74 0.78 50.4 0.79 1.8 -1.0 195 49.5 72.74 0.78 50.4 0.79 1.8 -1.0 195 49.2 6.74 0.78 50.4 0.79 1.8 -1.0 195 49.2 6.74 0.78 50.4 0.79 1.8 -1.0 195 49.2 6.74 0.78 50.4 0.79 1.8 -1.0 195 49.2 6.74 0.78 50.0 6.0 1.3 -2.0 205 49.2 6.9 1.0 1.0 1.3 -2.0 205 49.2 6.9 1.0 1.0 1.3 -2.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Ì	135	50.5	100.76	0.76	52.6	0.76	-4.1	0.3	1
160 50.2 51.30 0.76 52.3 0.76 -4.0 0.1 165 50.7 88.88 0.76 52.1 0.76 -3.8 0.5 165 50.0 88.14 0.77 51.8 0.77 -3.5 0.5 165 50.0 83.75 0.77 51.8 0.77 -3.5 0.5 170 49.9 81.51 0.77 51.8 0.77 -2.9 -0.5 180 49.7 77.41 0.78 50.9 0.78 2.4 -0.1 180 49.5 73.74 0.78 50.9 0.78 2.4 -0.8 180 49.5 73.74 0.78 50.9 0.78 2.4 -0.8 180 49.5 73.74 0.78 50.2 0.79 -1.8 -1.0 185 48.6 72.68 0.78 50.2 0.79 -1.8 -1.0 195 49.4 72.08 0.78 50.2 0.79 -1.8 -1.0 195 49.2 67.49 0.79 49.5 0.80 -1.3 -2.0 200 49.3 70.46 0.78 50.0 0.80 -1.3 -2.0 201 49.2 67.49 0.79 49.5 0.80 -0.6 -1.1 220 48.0 64.80 0.79 49.0 0.81 -0.3 -2.1 220 48.0 64.80 0.79 49.0 0.81 -0.3 -2.1 220 48.0 64.80 0.79 49.0 0.81 0.3 -2.1 220 48.5 63.55 0.80 48.6 0.82 0.5 -2.1 240 48.7 60.11 0.89 48.1 0.82 1.0 -2.6 240 48.5 60.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.10 0.80 48.1 0.82 1.0 -2.6 240 48.5 60.10 0.80 48.1 0.82 1.0 -2.6 241 482 60.25 0.80 48.1 0.82 1.0 -2.6 242 485 60.05 0.80 47.9 0.80 1.5 -3.4 243 48.6 60.05 0.80 47.9 0.80 1.5 -3.4 244 48.5 60.05 0.80 47.9 0.80 1.5 -3.4 245 48.5 60.05 0.80 47.9 0.80 1.5 -3.4 246 48.5 60.05 0.80 47.9 0.80 1.5 -3.4 247 485 60.05 0.80 47.9 0.80 1.5 -3.4 248 48.5 60.05 0.80 47.9 0.80 1.5 -3.4 249 48.5 60.05 0.80 47.9 0.80 1.5 -3.4 240 48.5 60.05 0.80 47.9 0.80 1		140	50,4	97.41	0.76	52.5	0.76	-4.1	0.2	
195 50.7 88.86 0.76 52.1 0.76 -3.8 -0.3	İ	145	50.3	94,30	0.76	52.4	0.76	-4.0	0.2	
180 50.0 86.14 0.77 51.8 0.77 -3.5 0.5 185 50.0 80.78 0.77 51.8 0.77 -3.1 0.5 170 49.9 81.51 0.77 51.1 0.78 -2.9 -0.5 170 49.8 79.40 0.77 51.1 0.78 -2.6 -0.9 180 49.7 77.41 0.78 50.9 0.73 -2.4 -0.18 180 49.5 72.74 0.78 50.4 0.79 -1.8 -1.0 195 49.6 72.06 0.76 50.2 0.79 -1.8 -1.0 195 49.4 72.06 0.76 50.0 0.91 -1.3 -2.0 200 49.3 70.46 0.78 50.0 0.11 -1.2 201 49.2 67.49 0.79 49.7 0.80 -1.1 216 49.1 61.11 0.79 49.3 0.81 -3.3 -2.1 226 48.9 63.95 0.80 48.8 0.81 0.2 -1.7 226 48.9 63.55 0.80 48.8 0.81 0.2 -1.7 226 48.8 61.20 0.80 48.1 0.82 1.0 -2.1 240 48.7 60.11 0.80 48.1 0.82 1.0 -2.1 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 48.1 0.82 1.2 -3.0 240 48.5 50.01 0.80 47.9 0.83 1.5 -3.4 240 48.5 50.01 0.80 47.9 0.83 1.5 -3.4		150	50.2	91.39	0.76	52.3	0.76	~4.0	0.1	
195 50.0 83.75 0.77 51.8 0.77 -2.9 0.5 170 49.9 81.51 0.77 51.4 0.77 -2.9 -0.5 180 49.7 77.41 0.78 51.8 0.77 -2.4 -0.5 180 49.7 77.41 0.78 50.9 0.78 -2.4 -0.1 185 49.5 75.52 0.78 50.7 0.78 -2.4 -0.1 185 49.5 75.52 0.78 50.7 0.78 -2.4 -0.1 185 49.5 75.74 0.78 50.4 0.78 -1.8 -1.0 185 49.5 70.46 0.78 50.2 0.79 -1.8 -1.5 200 49.5 70.46 0.78 50.0 0.0 -1.5 -1.5 200 49.5 70.46 0.79 49.7 0.80 -1.1 -1.2 210 49.2 67.49 0.79 49.5 0.80 -0.1 -1.8 211 49.2 67.49 0.79 49.5 0.80 -0.5 -2.1 220 49.5 63.55 0.80 48.8 0.81 0.2 -1.7 220 48.8 61.20 0.80 48.5 0.82 0.5 -2.1 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.4 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.4 240 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 241 242 67.49 0.79 49.5 0.80 -1.5 242 48.8 61.20 0.80 48.8 0.81 0.2 -1.7 243 48.8 51.20 0.80 48.1 0.82 1.0 -2.1 246 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 247 488 51.20 0.80 47.9 0.83 1.5 -3.4 248 485 50.05 0.80 47.9 0.83 1.5 -3.4 248 485 50.05 0.80 47.9 0.83 1.5 -3.4 249 485 485 50.05 0.80 47.9 0.83 1.5 -3.4 240 48.7 0.11 0.80 47.9 0.83 1.5 -3.4 240 48.7 0.11 0.80 47.9 0.83 1.5 -3.4 240 48.7 0.11 0.80 47.9 0.83 1.5 -3.4 240 48.7 0.80 47.9 0.83 1.5 -3.4 240 48.7 0.80 47.9 0.83 1.5 -3.4 241 242 245 245 245 245 245 245 242 243 245 245 245 245 245 245 243 245 245 245 245 245 245 245 244 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 246 247 247 247 245 245 245 245 245 245 245 245 245 245		155	50.1	88.68	0.76	52.1	0.76	-3.8	-0.3	
170 499 81.51 0.77 51.4 0.77 -2.9 -0.5 178 49.8 76.40 0.77 81.1 0.78 -2.6 -0.5 180 49.7 77.41 0.78 50.9 0.78 -2.4 -0.1 185 49.8 75.52 0.78 50.7 0.76 -2.1 -0.6 190 49.5 78.74 0.78 50.4 0.79 -1.8 -1.5 200 49.3 70.46 0.78 50.0 0.80 -1.3 -2.0 205 49.2 69.94 0.79 49.7 0.80 -1.1 206 49.3 67.49 0.79 49.5 0.80 -0.6 -1.6 216 49.1 68.11 0.79 49.3 0.81 -0.3 -2.1 220 49.0 64.80 0.78 49.3 0.81 -0.3 -2.1 220 49.0 64.80 0.79 49.3 0.81 0.1 -1.2 221 49.8 63.55 0.80 48.8 0.81 0.2 -1.7 222 48.8 61.20 0.80 48.5 0.82 1.0 -2.4 235 48.8 61.20 0.80 48.1 0.82 1.0 -2.4 240 48.7 0.111 0.88 48.1 0.82 1.0 -2.4 240 48.7 0.111 0.88 48.1 0.82 1.2 -3.0 241 485 59.05 0.80 47.9 0.83 1.5 -3.4 242 48.5 59.05 0.80 47.9 0.83 1.5 -3.4 243 48.5 59.05 0.80 47.9 0.83 1.5 -3.4 244 48.5 59.05 0.80 47.9 0.83 1.5 -3.4 245 48.5 59.05 0.80 47.9 0.83 1.5 -3.4 247 48.5 59.05 0.80 47.9 0.83 1.5 -3.4		160	50.0	86.14	0.77	51.8	0.77	-3.5	0.5	
175 48.8 79.40 0.77 51.1 0.76 -2.5 -0.5 180 49.7 77.41 0.78 80.9 0.78 2.4 -0.6 180 49.5 75.52 0.78 60.7 0.78 2.4 -0.6 185 48.5 75.2 0.78 60.4 0.79 -1.8 -1.0 185 48.5 70.6 0.78 60.2 0.79 -1.8 -1.0 185 49.2 0.78 60.2 0.79 -1.8 -1.0 1.0		165	50.0	83,75	0.77	51.6	0.77	-3.1	0.0	
185 49.5 75.52 0.78 50.9 0.78 2.4 0.1 185 49.5 75.52 0.78 50.7 0.78 2.1 0.1 185 49.5 75.52 0.78 50.7 0.78 2.1 0.1 185 49.5 75.74 0.78 50.4 0.79 1.8 -1.5 200 49.5 70.46 0.78 50.2 0.79 -1.5 -1.5 200 49.5 70.46 0.78 50.0 0.5 -1.5 -1.5 201 49.2 67.49 0.79 49.7 0.80 -1.1 -1.2 210 49.2 67.49 0.79 49.5 0.80 0.6 -1.5 211 49.2 67.49 0.79 49.3 0.81 -0.3 -2.1 222 49.5 64.80 0.78 49.0 0.81 -0.1 -2.5 225 49.5 63.55 0.80 48.8 0.81 0.2 -1.7 220 48.8 61.20 0.80 48.3 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 240 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 241 485 50.05 0.80 47.9 0.83 1.5 -3.4 242 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 243 485 50.05 0.80 47.9 0.83 1.5 -3.4 244 485 50.05 0.80 47.9 0.83 1.5 -3.4 245 485 50.05 0.80 47.9 0.83 1.5 -3.4 246 485 50.05 0.80 47.9 0.83 1.5 -3.4 247 248 485 50.05 0.80 47.9 0.83 1.5 -3.4 248 485 50.05 0.80 47.9 0.83 1.5 -3.4 249 485 485 685 685 685 685 685 685 685 685 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240		170	49.9	81.51	0.77	51.4	0.77	-2.9	-0.5	
185 48.8 75.52 0.78 50.7 0.78 -2.1 -0.6 190 49.5 73.74 0.78 60.4 0.79 -1.8 -1.5 200 49.3 70.46 0.78 50.0 0.80 -1.3 -2.0 200 49.3 70.46 0.78 50.0 0.80 -1.3 -2.0 200 49.2 68.94 0.79 49.7 0.80 0.6 -1.5 210 49.2 67.49 0.79 49.5 0.80 0.6 -1.6 210 49.1 68.11 0.79 49.3 0.81 -0.3 -2.1 220 49.0 64.80 0.79 49.3 0.81 0.3 -2.1 225 48.9 63.55 0.80 48.8 0.81 0.2 -1.7 220 46.8 63.25 0.80 48.6 0.82 0.5 -2.1 235 48.6 61.20 0.80 48.5 0.82 1.0 -2.4 246 48.7 60.11 0.89 48.1 0.82 1.0 -2.4 247 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 248 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 249 48.7 60.11 0.88 47.9 0.83 1.5 -3.4 240 48.7 60.11 0.88 48.1 0.82 1.2 -3.0 240 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 241 485 60.50 0.80 47.9 0.83 1.5 -3.4 242 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 243 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 244 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 245 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 246 48.5 60.50 0.80 47.9 0.83 1.5 -3.4 247 248		175	49.8	79,40	0.77	51.1	0.78	-2.6		
190 49.5 73.74 0.76 50.4 0.79 -1.8 -1.0 195 49.4 72.06 0.76 50.2 0.79 -1.6 -1.0 200 49.5 70.46 0.76 50.2 0.79 -1.6 -1.5 201 49.2 67.49 0.79 49.5 0.80 -0.6 -1.5 210 49.2 67.49 0.79 49.5 0.80 -0.6 -1.5 211 49.2 67.49 0.79 49.5 0.80 -0.6 -1.5 212 49.0 64.10 0.79 49.0 0.81 -0.3 -2.1 220 48.0 64.80 0.79 49.0 0.81 0.2 -1.7 221 48.9 63.55 0.80 48.0 0.82 0.5 -2.1 222 48.8 61.20 0.80 48.3 0.82 1.0 -2.4 243 48.6 62.50 0.80 48.3 0.82 1.0 -2.4 246 48.7 0.11 0.88 48.1 0.82 1.0 -2.4 247 488 59.05 0.80 47.9 0.83 1.5 -3.4 248 48.6 59.05 0.80 47.9 0.83 1.5 -3.4 248 48.6 59.05 0.80 47.9 0.83 1.5 -3.4 248 248 248 248 248 0.82 0.82 0.82 248 248 248 248 0.82 0.83 1.5 -3.4 248 248 248 248 248 0.82 0.83 0.83 248 248 248 248 0.82 0.83 0.83 249 248 248 248 248 248 248 240 248 248 248 248 248 240 248 248 248 248 248 240 248 248 248 248 240 248 248 248 248 240 248 248 248 240 248 248 248 240 248 248 248 240 248 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248 248 240 248		180	49.7	77.41	0.76	50.9	0.78	-2.4		
195 44.4 72.06 0.78 50.2 0.79 -1.5 -1.5 200 49.3 70.46 0.78 50.0 0.01 -1.3 -2.0 205 49.2 68.84 0.79 49.7 0.80 -1.1 -1.2 210 49.2 67.49 0.79 49.5 0.80 -0.5 -1.5 215 48.1 68.11 0.79 49.3 0.81 -0.3 -2.1 226 49.0 64.80 0.78 49.0 0.81 -0.3 -2.1 225 48.6 63.25 0.80 48.8 0.81 0.2 -1.7 226 48.8 61.20 0.80 48.3 0.82 1.0 -2.6 236 48.8 61.20 0.80 48.1 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 241 485 59.05 0.80 47.9 0.83 1.5 -3.4 242 485 59.05 0.80 47.9 0.83 1.5 -3.4 243 485 59.05 0.80 47.9 0.83 1.5 -3.4 244 485 59.05 0.80 47.9 0.83 1.5 -3.4 245 485 59.05 0.80 47.9 0.83 1.5 -3.4 246 487 488 487 0.82 1.0		185	49.0	75.52	0.78	50.7	0.78	-2.1		
200 49.3 70.46 0.76 50.0 0.80 -1.3 -2.0 205 49.2 68.94 0.79 49.7 0.80 -1.1 216 49.1 68.11 0.79 49.5 0.80 -0.6 -1.5 216 49.1 68.11 0.79 49.3 0.81 -0.3 -2.1 220 49.0 64.80 0.79 49.0 0.81 -0.1 -2.1 225 48.9 63.55 0.80 48.8 0.81 0.2 -1.7 220 46.8 63.25 0.80 48.6 0.82 0.5 -2.1 235 48.6 61.20 0.80 48.5 0.82 1.0 -2.4 240 48.7 0.11 0.88 48.1 0.82 1.2 -3.0 240 48.7 0.11 0.88 48.1 0.82 1.2 -3.0 240 48.5 50.05 0.80 47.9 0.83 1.5 -3.4 241 485 50.05 0.80 47.9 0.83 1.5 -3.4 242 48.7 0.81 0.82 0.87 0.88 0.80		190	49.5	73.74	0.78	50.4	0.79	-1.8		
205 49.2 88.94 0.79 49.7 0.80 -1.1 -1.2 210 49.2 67.40 0.79 49.5 0.80 0.6 -1.5 215 49.1 68.11 0.79 49.3 0.81 -0.3 -2.5 226 45.9 64.80 0.79 49.0 0.81 0.1 -2.5 225 46.9 63.55 0.80 48.8 0.81 0.2 -1.7 226 48.8 62.25 0.80 48.5 0.82 0.8 -1.5 225 48.8 61.20 0.80 48.1 0.82 1.0 -2.6 226 48.7 60.11 0.80 48.1 0.82 1.2 -3.0 246 48.8 59.05 0.80 47.9 0.83 1.5 -3.4 247 48.8 59.05 0.80 47.9 0.83 1.5 -3.4 248 48.8 59.05 0.80 47.9 0.83 1.5 -3.4 249 48.8 59.05 0.80 47.9 0.83 1.5 -3.4 240 48.7 60.11 0.80 48.1 0.82 1.2 -3.0 240 48.5 59.05 0.80 47.9 0.83 1.5 -3.4 241 242 242 242 242 242 242 242 242 243 243 243 243 243 243 243 243 243 243 243 243 243 243 243 243 244 245 245 243 243 243 243 243 245 245 245 245 243 243 243 243 246 247 247 247 247 247 247 247 247 247 247 247 247 247 247 248 247 247 247 247 247 247 247 247 248 247 247 247 247 247 247 247 247 247 248 247 24		195	49,	72.06	0.78	50.2	0.79		-1.5	
210 48.2 67.49 0.79 49.5 0.80 -0.6 -1.5 215 48.1 66.11 0.79 49.3 0.81 -0.3 -2.1 220 49.0 64.80 0.78 49.0 0.81 -0.1 -2.5 225 48.9 63.55 0.80 48.8 0.81 0.2 -1.7 220 48.8 61.20 0.80 48.8 0.82 0.5 -2.1 235 48.6 61.20 0.80 48.3 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.0 -2.6 240 48.7 0.11 0.80 48.1 0.82 1.2 -3.0 245 48.6 59.05 0.80 47.9 0.83 1.5 -3.4		200	49.	70.46	0.78	50.0	9,80			
215 49.1 86.11 0.79 49.3 0.81 -0.3 -2.1 228 49.0 64.80 0.79 49.0 0.81 -0.1 -2.1 225 44.9 63.55 0.89 48.8 0.81 0.2 -1.7 220 44.9 63.55 0.89 48.8 0.81 0.2 -1.7 220 44.9 63.50 0.89 48.3 0.82 1.0 -2.1 235 44.8 61.20 0.89 48.3 0.82 1.0 -2.4 240 48.7 0.11 0.89 48.1 0.82 1.2 -2.0 248 48.6 5.0 0.80 47.9 0.83 1.5 -2.4 248 48.6 5.0 0.80 47.9 0.83 1.5 -2.4		205	49.	2 68.94	0.7	49.7	0.80	4.5		
20 48,0 64,0 0.79 49,0 0.81 -0.1 -2.5 225 46,9 63,55 0.80 48,8 0.81 0.2 -1.7 230 48,8 62,35 0.80 48,5 0.82 0.5 -2.1 235 48,8 61,20 0.80 48,1 0.82 1,0 -2.6 240 48,7 60,11 0.80 48,1 0.82 1,2 -3.0 245 48,8 59,05 0.80 47,9 0.83 1,5 -3.4		210	49.	67.49	0.7	49.5	0.80			
225 48.9 63.55 0.80 48.8 0.81 0.2 1.7 220 46.8 62.55 0.80 48.8 0.82 0.5 0.2 1.2 235 48.8 61.20 0.80 48.3 0.82 1.0 2.6 240 48.7 60.11 0.80 48.1 0.82 1.2 3.0 245 48.8 59.05 0.80 47.9 0.83 1.5 3.4		215	49.	66.11	0.7	9 49.	8,0	-0.3		
220 48.8 62.35 0.80 48.6 0.82 0.5 -2.1 235 48.8 61.20 0.80 48.3 0.82 1.0 -2.6 240 48.7 60.11 0.80 48.1 0.82 1.2 -3.0 245 48.8 59.05 0.80 47.9 0.83 1.5 -3.4		220	49.	64.80	0.7	8 49.	0.8	-0.1		
235 48.8 61.20 0.80 48.3 0.82 1.0 -2.6 240 48.7 60.11 0.80 48.1 0.82 1.2 -3.0 245 48.6 59.05 0.80 47.9 0.83 1.5 -3.4		225	48.	9 63.55	0,8	0 48.	8.0	0.2		
240 48.7 60.11 0.80 48.1 0.82 1.2 -3.0 245 48.6 59.05 0.80 47.9 0.83 1.5 -3.4		230	ı 48.	8 62.35	0.8	0 48.	8.0	0.5	-2.1	
245 48.6 59.05 0.80 47.9 0.83 1.5 -3.4		235	48.	61.20	0.8	0 48.		1		
33.30		240	48	7 60.11	0.8	0 48.	1 0.8	2 1.2	-3.0	
250 48,5 5e,05 0.81 47.5 0.83 1.8 -2.7		24	48	6 59.05	0.6	0 47.	9 0.8	3 1.5		
		25	48	5 58.05	0.6	1 47.	6.0	3 1.8	-2.7	_

Figure C-4 5 – 250 MHz Head Tissue Equivalent Matter

FCC ID A3LSMF936U	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX C: Page 4 of 4

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