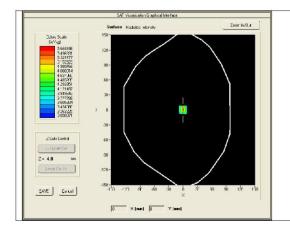
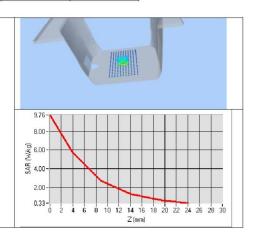


Ref: ACR.287.8.14.SATU.A

Zoon Scan Resolution	dx=8mm/dy=8m/dz=5mm		
Frequency	2450 MHz		
Input power	20 dBm		
Liquid Temperature	21 °C		
Lab Temperature	21 °C		
Lab Humidity	45 %		

Frequency MHz	1 g SAR (W/kg/W)		10 g SAR (W/kg/W)	
	required	measured	required	measured
300	2.85		1.94	
450	4.58		3.06	
750	8.49		5.55	
835	9.56		6.22	
900	10.9		6.99	
1450	29		16	
1500	30.5		16.8	
1640	34.2		18.4	
1750	36.4		19.3	
1800	38.4		20.1	
1900	39.7		20.5	
1950	40.5		20.9	
2000	41.1		21.1	
2100	43.6		21.9	
2300	48.7		23.3	
2450	52.4	53.89 (5.39)	24	24.15 (2.42
2600	55.3		24.6	
3000	63.8		25.7	
3500	67.1		25	





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Ref: ACR.287.8.14.SATU.A

### 7.3 <u>BODY LIQUID MEASUREMENT</u>

Frequency MHz	Relative permittivity (ε <sub>r</sub> ')		Conductivity (σ) S/m	
	required	measured	required	measured
150	61.9 ±5 %		0.80 ±5 %	
300	58.2 ±5 %		0.92 ±5 %	
450	56.7 ±5 %		0.94 ±5 %	
750	55.5 ±5 %		0.96 ±5 %	
835	55.2 ±5 %		0.97 ±5 %	
900	55.0 ±5 %		1.05 ±5 %	
915	55.0 ±5 %		1.06 ±5 %	
1450	54.0 ±5 %		1.30 ±5 %	
1610	53.8 ±5 %		1.40 ±5 %	
1800	53.3 ±5 %		1.52 ±5 %	
1900	53.3 ±5 %		1.52 ±5 %	
2000	53.3 ±5 %		1.52 ±5 %	
2100	53.2 ±5 %		1.62 ±5 %	
2450	52.7 ±5 %	PASS	1.95 ±5 %	PASS
2600	52.5 ±5 %		2.16 ±5 %	
3000	52.0 ±5 %		2.73 ±5 %	
3500	51.3 ±5 %		3.31 ±5 %	
5200	49.0 ±10 %		5.30 ±10 %	
5300	48.9 ±10 %		5.42 ±10 %	
5400	48.7 ±10 %		5.53 ±10 %	
5500	48.6 ±10 %		5.65 ±10 %	
5600	48.5 ±10 %		5.77 ±10 %	
5800	48.2 ±10 %		6.00 ±10 %	

## 7.4 SAR MEASUREMENT RESULT WITH BODY LIQUID

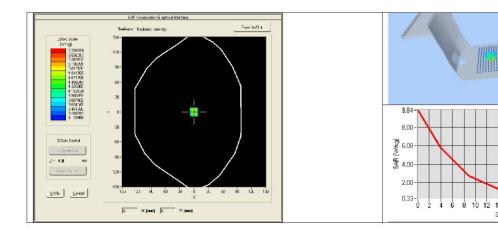
Software	OPENSAR V4
Phantom	SN 20/09 SAM71
Probe	SN 18/11 EPG122
Liquid	Body Liquid Values: eps': 53.0 sigma: 1.93
Distance between dipole center and liquid	10.0 mm
Area scan resolution	dx=8mm/dy=8mm
Zoon Scan Resolution	dx=8mm/dy=8m/dz=5mm
Frequency	2450 MHz
Input power	20 dBm
Liquid Temperature	21 °C
Lab Temperature	21 °C
Lab Humidity	45 %

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Ref: ACR.287.8.14.SATU.A

Frequency MHz	1 g SAR (W/kg/W)	10 g SAR (W/kg/W)	
	measured	measured	
2450	54.65 (5.46)	24.58 (2.46)	



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Ref: ACR.287.8.14.SATU.A

### 8 LIST OF EQUIPMENT

Equipment Summary Sheet					
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date	
SAM Phantom	Satimo	SN-20/09-SAM71	Validated. No cal required.	Validated. No cal required.	
COMOSAR Test Bench	Version 3	NA		Validated. No cal required.	
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/2016	02/2019	
Calipers	Carrera	CALIPER-01	12/2016	12/2019	
Reference Probe	Satimo	EPG122 SN 18/11	10/2018	10/2019	
Multimeter	Keithley 2000	1188656	12/2016	12/2019	
Signal Generator	Agilent E4438C	MY49070581	12/2016	12/2019	
Amplifier	Aethercomm	SN 046	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.	
Power Meter	HP E4418A	US38261498	12/2016	12/2019	
Power Sensor	HP ECP-E26A	US37181460	12/2016	12/2019	
Directional Coupler	Narda 4216-20	01386	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.	
Temperature and Humidity Sensor	Control Company	11-661-9	8/2016	8/2019	

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# 6. EUT TEST PHOTOGRAPHS

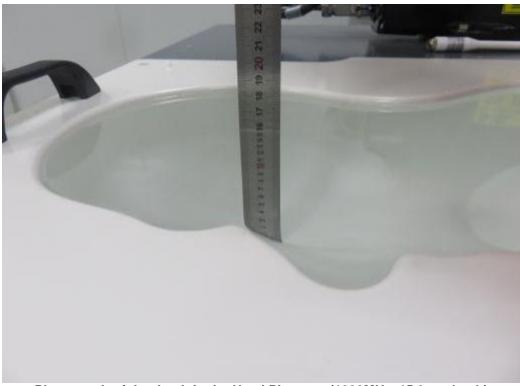
# 6.1 Photograph of liquid depth



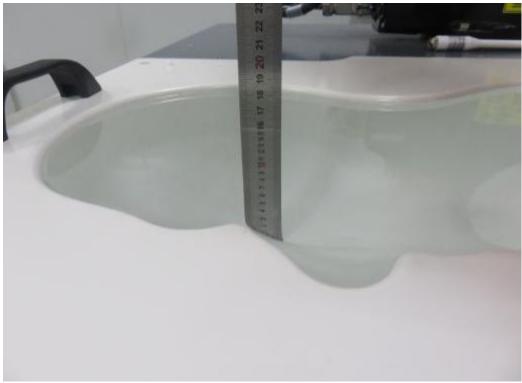
Photograph of the depth in the Head Phantom (750MHz, 15.3cm depth)



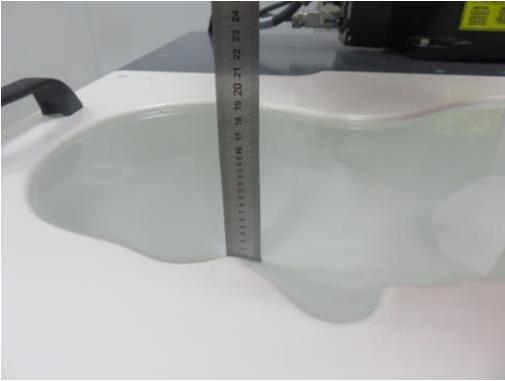
Photograph of the depth in the Head Phantom (835MHz, 15.4cm depth)



Photograph of the depth in the Head Phantom (1800MHz, 15.3cm depth)



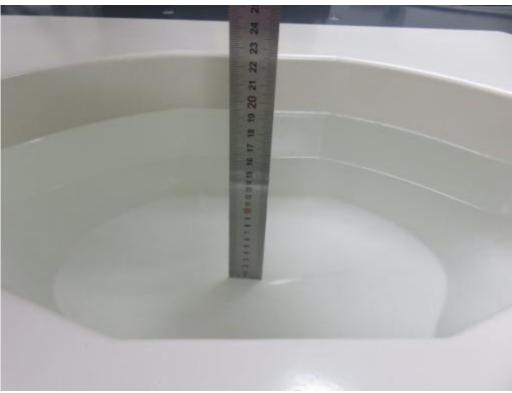
Photograph of the depth in the Head Phantom (1900MHz, 15.2cm depth)



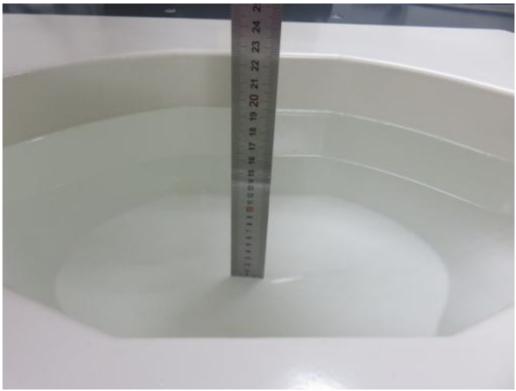
Photograph of the depth in the Head Phantom (2450MHz, 15.3cm depth)



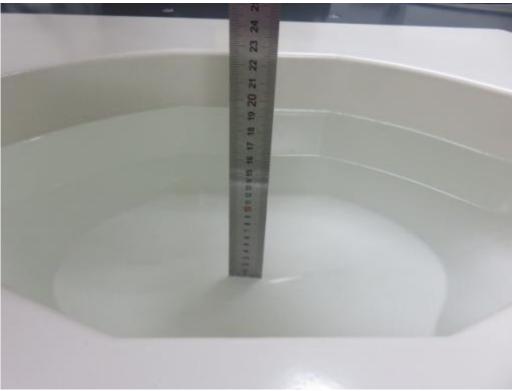
Photograph of the depth in the Head Phantom (2600MHz, 15.5cm depth)



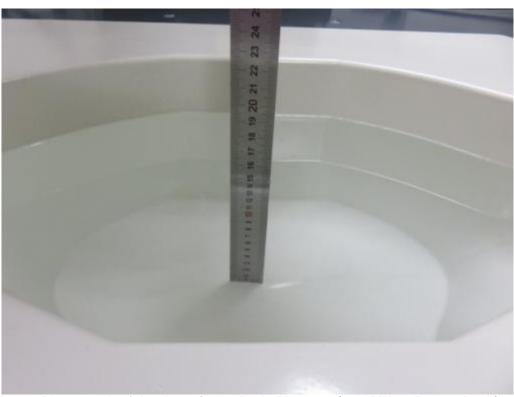
Photograph of the depth in the Body Phantom (750MHz, 15.4cm depth)



Photograph of the depth in the Body Phantom (835MHz, 15.2cm depth)



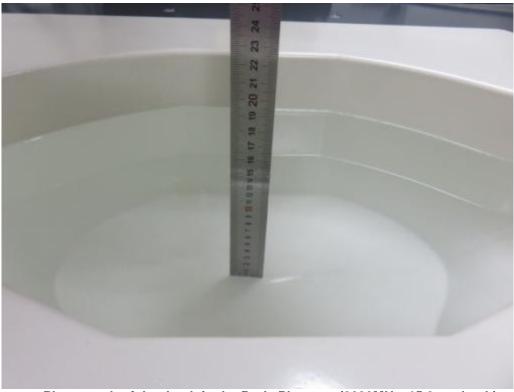
Photograph of the depth in the Body Phantom (1800MHz, 15.2cm depth)



Photograph of the depth in the Body Phantom (1900MHz, 15.4 cm depth)



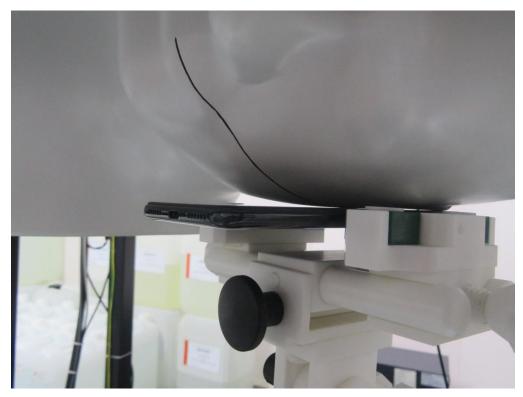
Photograph of the depth in the Body Phantom (2450MHz, 15.3cm depth)



Photograph of the depth in the Body Phantom (2600MHz, 15.2cm depth)

# **6.2 Photograph of the Test**

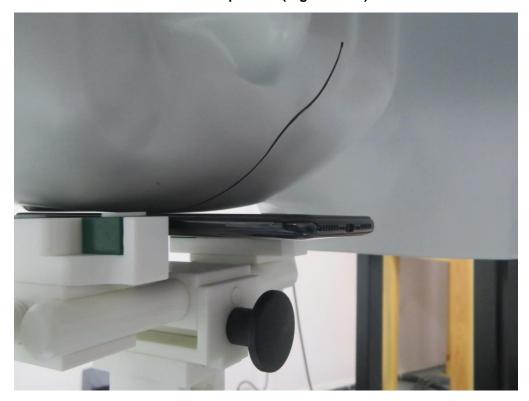




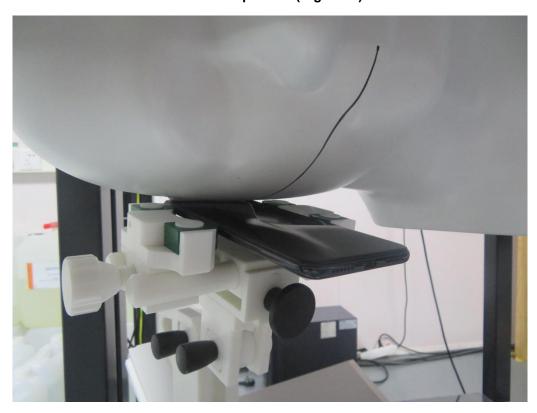
**Head Setup Photo (Left Tilt)** 



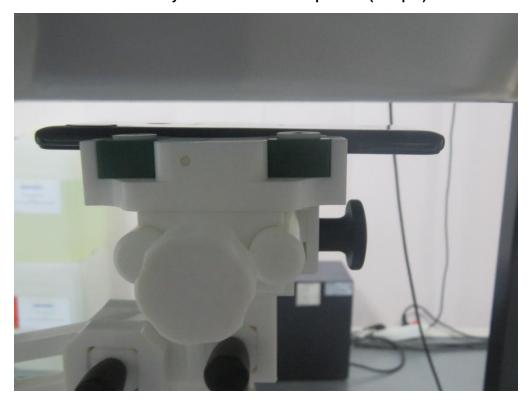
# **Head Setup Photo (Right Cheek)**



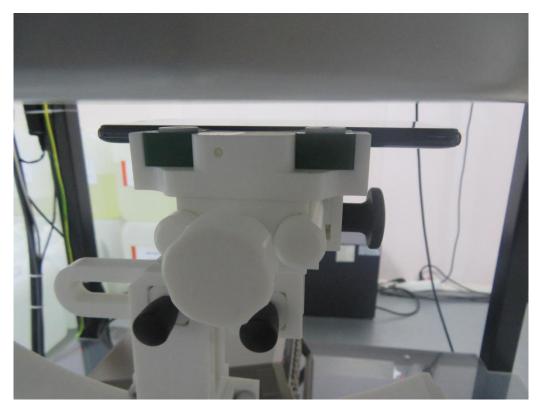
**Head Setup Photo (Right Tilt)** 



### 10mm body-worn Back Side Setup Photo (hotspot)



10mm body-worn Front Side Setup Photo (hotspot)



# 10mm body-worn Left Side Setup Photo (hotspot)



10mm body-worn Right Side Setup Photo (hotspot)



10mm body-worn Top Side Setup Photo (hotspot)



10mm body-worn Bottom Side Setup Photo (hotspot)



# 7. EUT Photographs

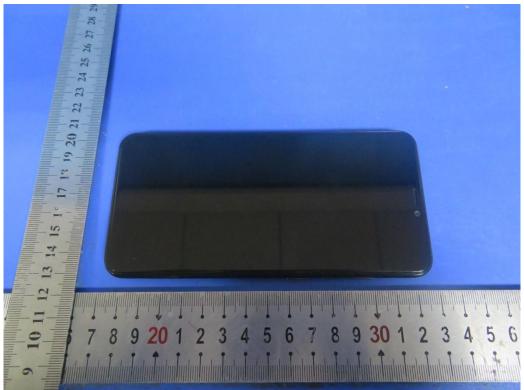


Fig.1

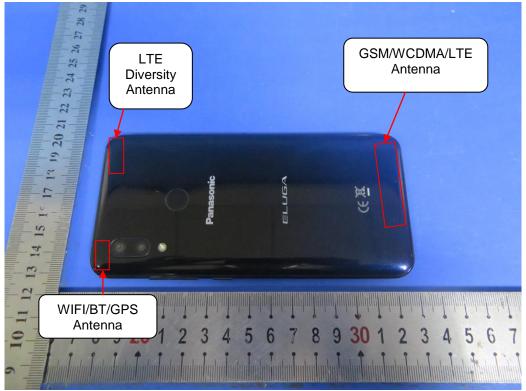


Fig. 2

.....The End of Test Report.....