



RTANT

Rtant Communications Co., Ltd

Antenna Commissioning & Test Report

Client: Locsmart Project: Beacon

Antenna Engineer: Wu Hui Qin

Date: 2022-03-21

Version: Vo Project manager: Jiang Lei 158999112



Project
Debug

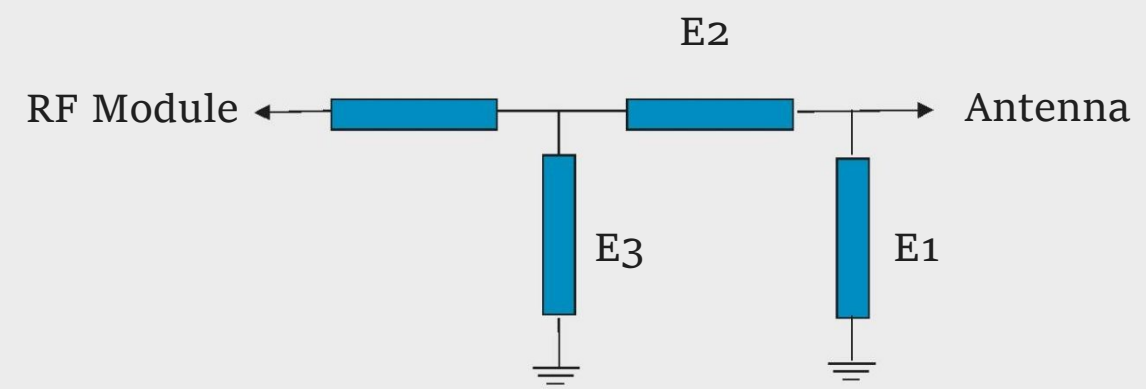


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Product	Beacon			
	Antenna types	channel me	Antern form	matching change
	BT	2400-2483.5MHz	Single Pole	No
Antenna Material	Onboard antenna			



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	Element	Value
	E1	No change
	E2	No change
	E3	No change



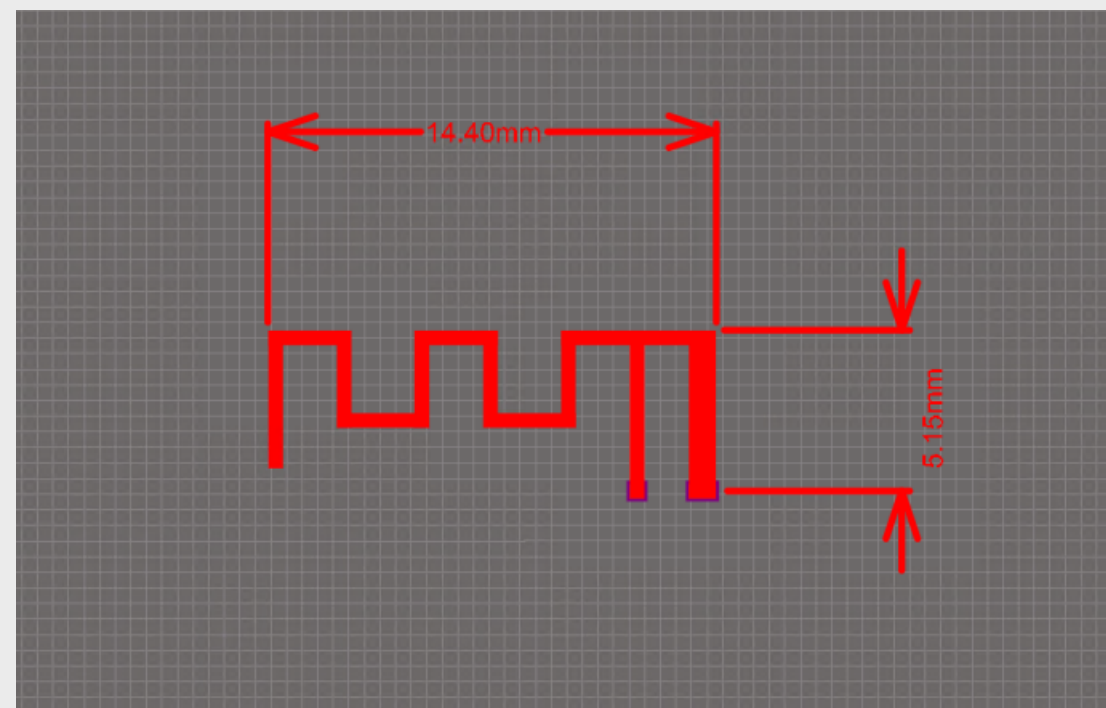
Locsmart IoT Technology (Suzhou) Co., Ltd

Building 16,Creative Industry park,No,328 xinghu street,Suzhou Industrial Park



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Board antenna size

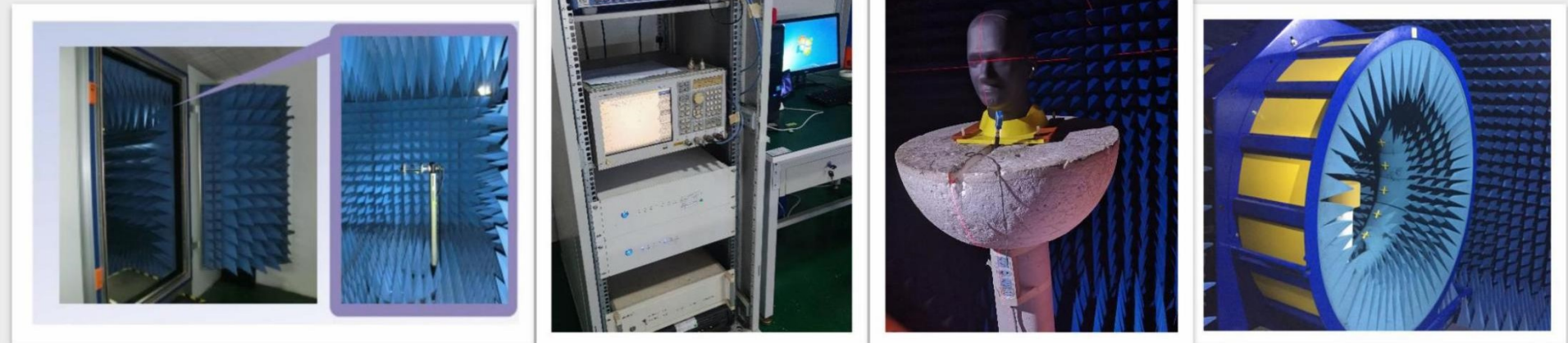




Experiment



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Test Item	Test Equipment
S11、 S12 、 VSWR 、 LOSS	Network Analyzer E5071B、 E8753D
Efficiency、 Gain、 3D Radiation Pattern	Satimo SG16darkroom 、 E5071B
TRP、 TIS	Satimo SG16darkroom、 CMW500

Mark: Devices for debugging & testing of this project are marked in Blue.



Free Space

1.OTA Passive/Active test

[illegible]

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OTA
Active
test
date

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R5 2022 1#												
Frequency	2.4GHz	2.41GHz	2.42GHz	2.43GHz	2.44GHz	2.45GHz	2.46GHz	2.47GHz	2.48GHz	2.49GHz	2.5GHz	
Efficiency (%)						3						
Gain (dBi)	2.54	2.78	2.86	2.41	2.09	2.1	1.8	1.68	1.64	1.76	1.15	

[illegible]

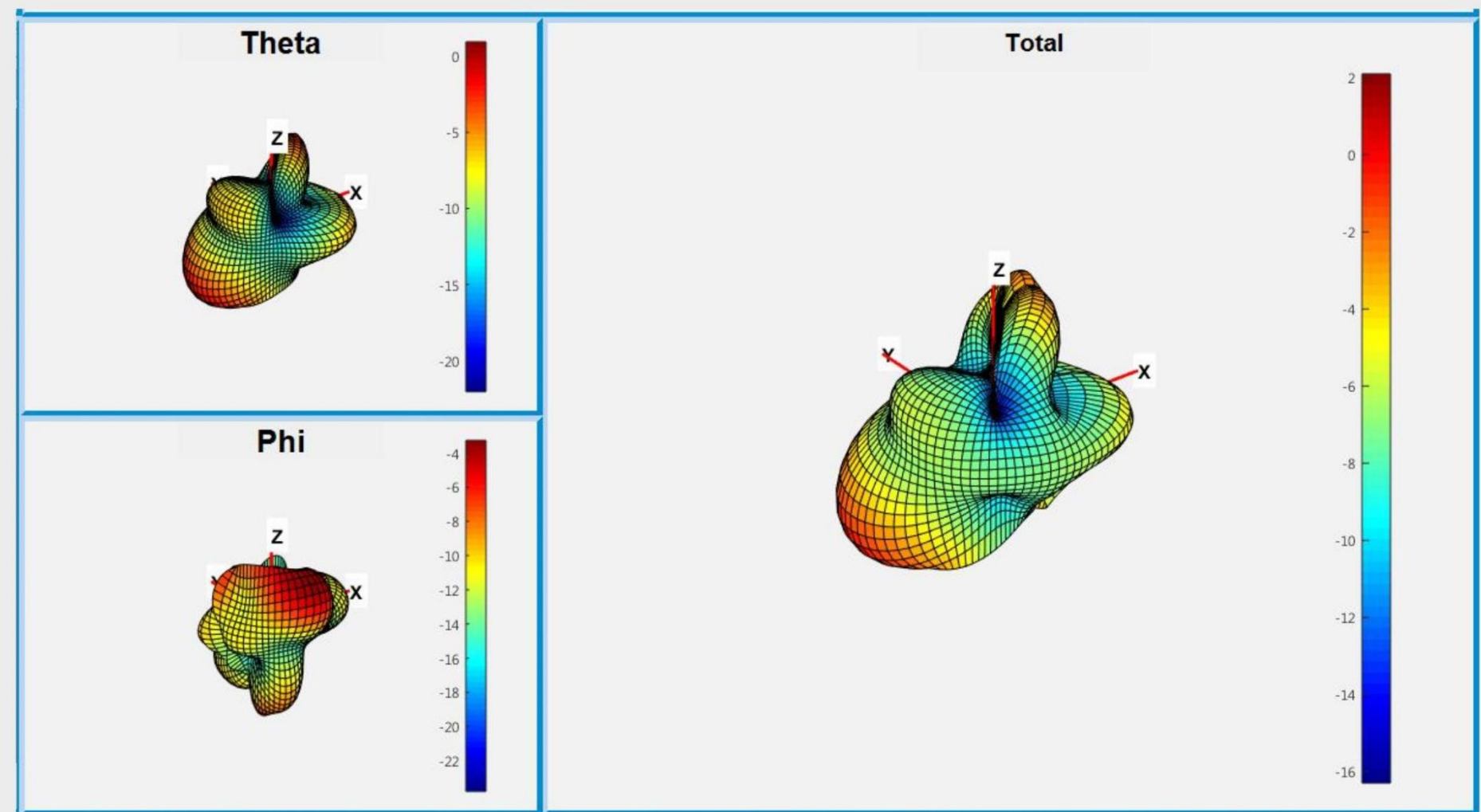


Free
Space
OTA
Active
test
date

3. Direction Pattern (R5 2022) /Passive



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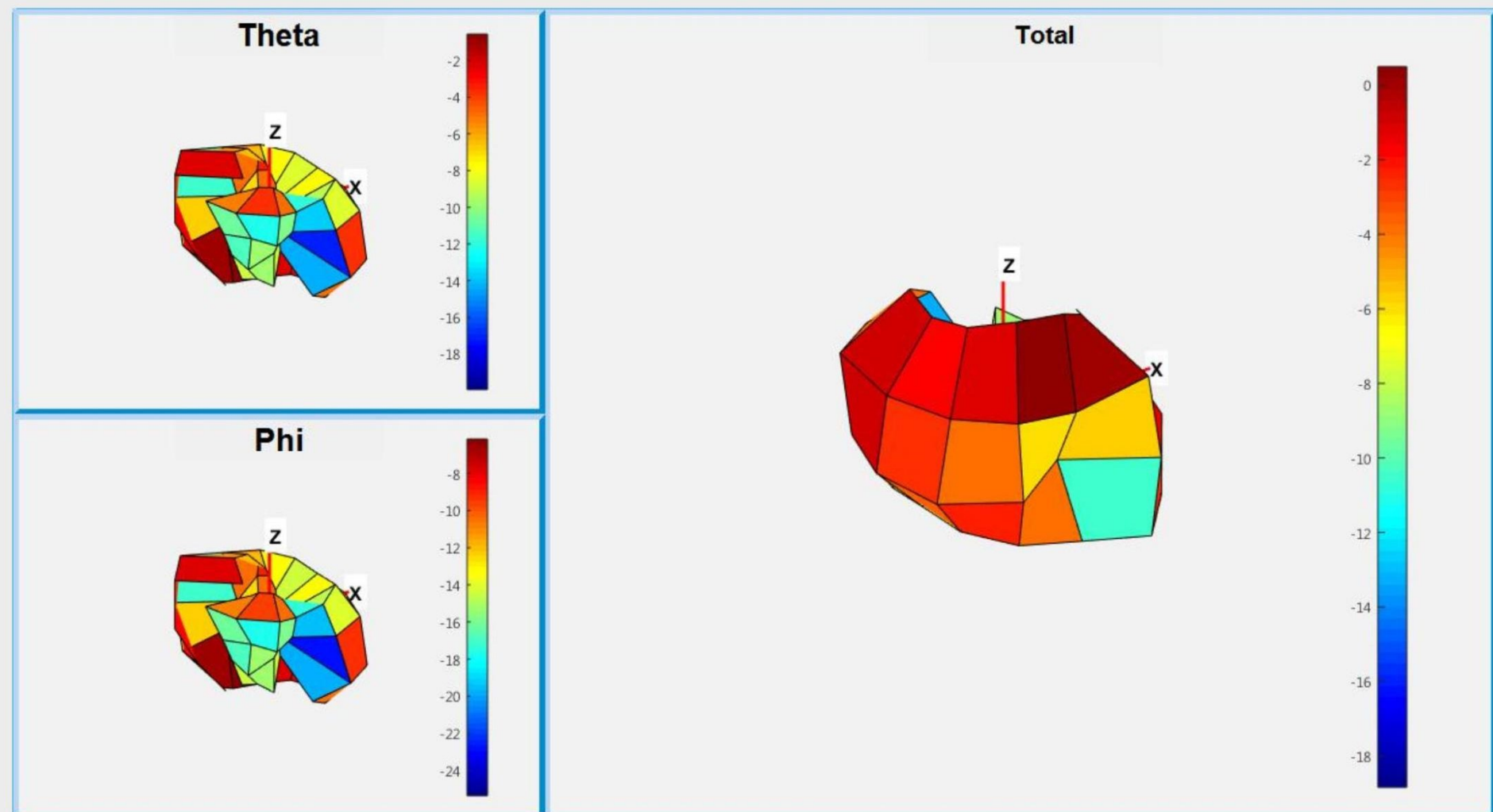
Free
Space

OTA
Active
test
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4. Direction Pattern (R5 2022 1#) /active 37 path



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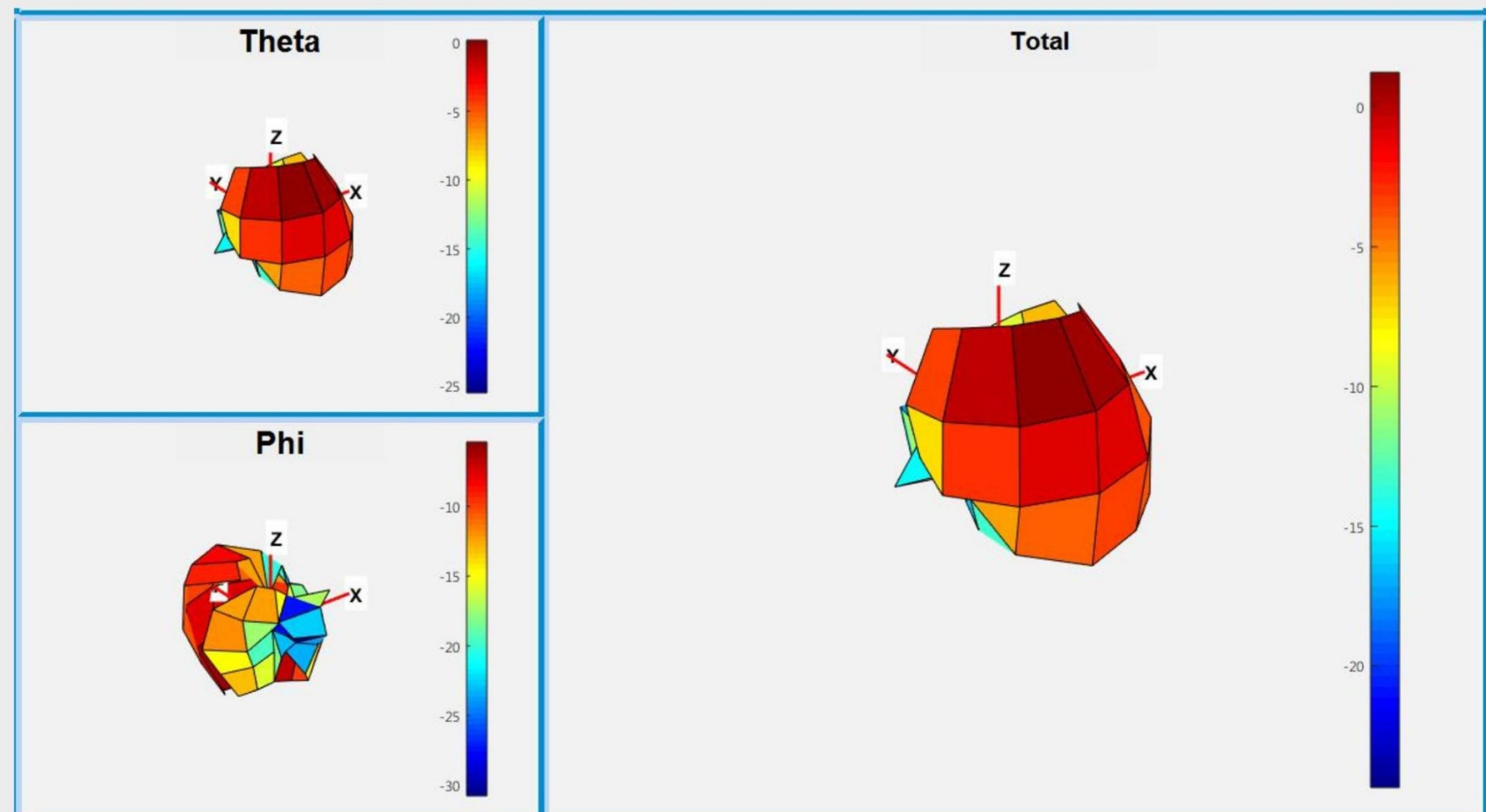
Free
Space

OTA
Active
test
date

5. Direction Pattern (R5 2022 1#) /active 39 path



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Thank you for your trust in Rtant