

SZOA2407000161AT01 Report No.:

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ANTENNA PASSIVE TEST REPORT

Application No. SZOA2407000161AT

Applicant Cellular Tracking Technologies LLC Manufacturer Cellular Tracking Technologies LLC

Product Name BluMorpho **BTGPT** Model No.

Standards ANSI/IEEE Std 149-2021

Date Initial Sample(s) Received July 30, 2024 **Testing Start Date** July 30, 2024 **Testing Finish Date** July 30, 2024 **Report Issue Date** August 12, 2024

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Yuanyu Luo

Prepared by: Yuanyu Luo/ Test

Engineer

Approved by: Ervin Li/ Technical

Erom 21

Manager



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Revision History

Revision	Issue Date	Description
01	August 12, 2024	Initial creation of report



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General Information

1.1 Testing Laboratory

_	
Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen
	Branch
A dalana a a	No.1 Workshop, M-10, Middle section, Science & Technology
Address	Park, Nanshan District, Shenzhen, Guangdong, China 518057
Contact	Ervin Li
Tel.	+86 18823369694
Fax	+86-755-25328600
E-mail	Ervin.Li@sgs.com

1.2 Details of Applicant

Applicant's Name	Cellular Tracking Technologies LLC
Applicant's Address	1293 Hornet Rd, Unit 1, Rio Grande, NJ 08242
Contact	Casey Halverson
Tel.	609889
Fax	N/A
E-mail	casey.halverson@celltracktech.com

1.3 Details of Manufacturer

Manufacturer's Name	Cellular Tracking Technologies LLC
Manufacturer's Address	1293 Hornet Rd, Unit 1, Rio Grande, NJ 08242
Contact	Casey Halverson
Tel.	609889
Fax	N/A
E-mail	casey.halverson@celltracktech.com



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1.4 General Description of EUT

Device Description:	BluMorpho
Device Manufacturer:	Cellular Tracking Technologies LLC
Device Model:	BTGPT
Hardware Version:	N/A
Software Version:	N/A
Antenna Dimensions:	31.10 x 0.4.0 x 0.4.0 mm
Antenna Type	1/4 wave wire antenna

1.5 Test Procedure

Testing is performed according to the ANSI/IEEE Std 149-2021.

1.6 Test Specification

Identity	Document Title	
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas	

1.7 Laboratory Environment

Temperature	Min. =19°C , Max. = 25°C		
Relative humidity	Min. =40% · Max. =72%		
Shield effect	0.7-6GHz > 100dB		
Ground resistance	<0.5Ω		



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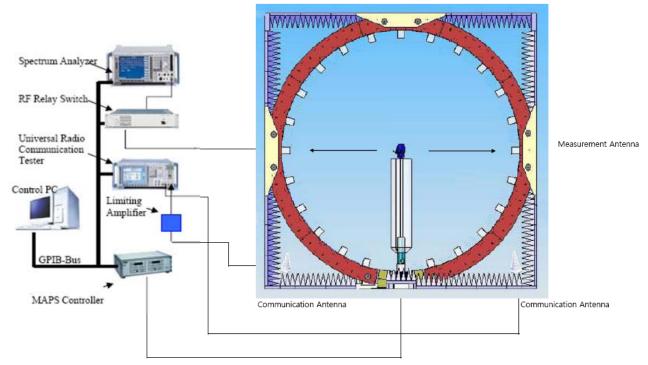
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OTA Measurements System Configuration

2.1 Test Configuration

Great-Circle-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 5m



F-1. OTA Measurement System Configuration



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Test Equipment List 3

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	E5071C S/N MY46523590	Keysight	2024/1/30	2025/1/29
Quad-Ridge Horn Antenna 700 MHz-10 GHz	EMCO 3164-08 S/N 161915	ETS-Lindgren L.P.	N/A	N/A
MAPS Controller	EMCENTER S/N 160485	ETS-Lindgren L.P.	N/A	N/A



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Measurement Uncertainty

Item	2400-2500 MHz (dB)	
Gain	0.88	
Efficiency	0.88	
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2		



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Test Results

FS				
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	
2350	-10.07	9.83	-0.84	
2355	-9.97	10.07	-0.77	
2360	-9.69	10.75	-0.44	
2365	-9.71	10.69	-0.46	
2370	-9.52	11.18	-0.43	
2375	-9.72	10.67	-0.67	
2380	-9.48	11.27	-0.68	
2385	-9.51	11.19	-0.75	
2390	-9.52	11.17	-0.84	
2395	-9.54	11.13	-0.77	
2400	-9.96	10.09	-1.05	
2402	-9.90	10.22	-1.06	
2405	-9.87	10.30	-0.90	
2410	-9.95	10.12	-0.73	
2415	-9.71	10.70	-0.52	
2420	-9.48	11.26	-0.30	
2425	-9.57	11.05	-0.52	
2430	-9.49	11.26	-0.58	
2435	-9.74	10.62	-0.95	
2440	-9.66	10.83	-0.96	
2441	-9.60	10.97	-0.92	
2445	-9.67	10.80	-0.88	
2450	-9.61	10.94	-0.76	



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2455	-9.39	11.52	-0.38
2460	-9.50	11.23	-0.41
2465	-9.44	11.37	-0.32
2470	-9.74	10.62	-0.54
2475	-9.68	10.77	-0.61
2480	-9.60	10.98	-0.51
2482	-9.53	11.14	-0.54
2485	-9.48	11.28	-0.51
2490	-9.34	11.65	-0.46
2495	-9.32	11.69	-0.49
2500	-9.15	12.17	-0.31
2505	-9.11	12.28	-0.23
2510	-9.12	12.24	-0.20
2515	-9.16	12.14	-0.23
2520	-9.33	11.67	-0.35
2525	-9.33	11.67	-0.39
2530	-9.34	11.64	-0.40
2535	-9.18	12.09	-0.31
2540	-9.04	12.48	-0.23
2545	-8.94	12.76	-0.23
2550	-8.97	12.66	-0.35
2555	-8.99	12.63	-0.40
2560	-8.94	12.75	-0.38
2565	-8.88	12.95	-0.25
2570	-8.62	13.74	0.06
2575	-8.61	13.78	0.14
2580	-10.07	9.83	-0.84
	·		



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6 Pattern Plots

6.1 Return Loss



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6.2 VSWR



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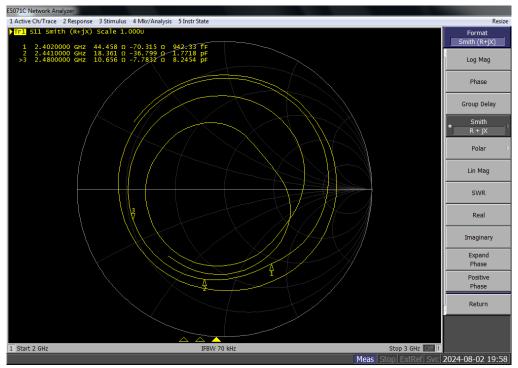


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6.3 Stimulus



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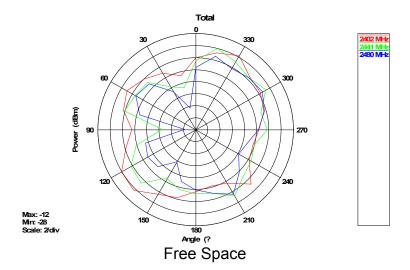


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2-D Antenna Pattern(Theta=90°)





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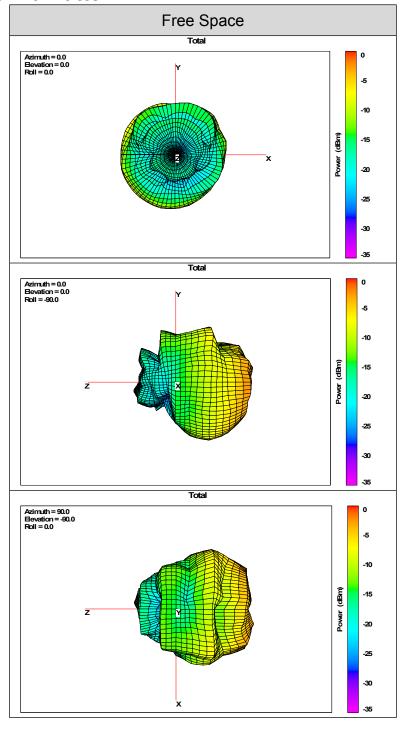


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3-D Antenna Pattern





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The EUT and Test Configuration 9

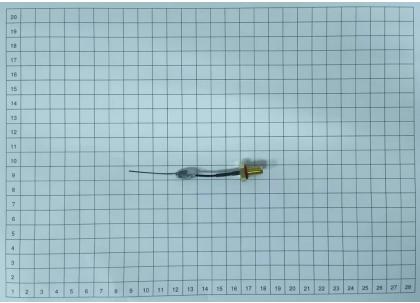
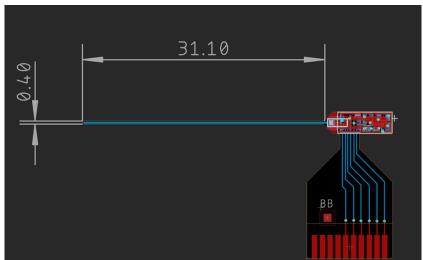


Photo of EUT



Antenna Dimensions



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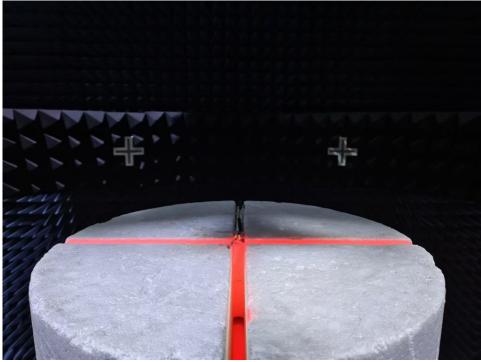


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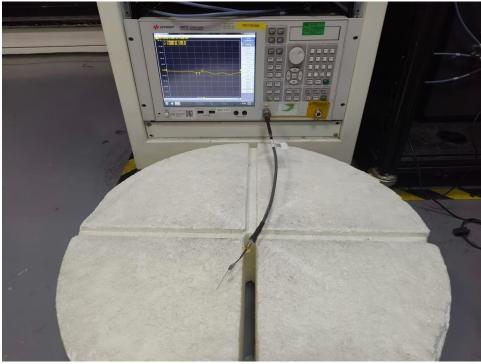
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Free Space Impedance Setup





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