

ASAP Technology (jiangxi) Co., Ltd

TEST REPORT

SCOPE OF WORK

SAR Assessment– WIAWHT100097966, LACP011

REPORT NUMBER

221025020SZN-002

ISSUE DATE

27 December 2022

[REVISED DATE]

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PAGES

17

DOCUMENT CONTROL NUMBER

RF Exposure

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Test Report

Applicant : ASAP Technology (jiangxi) Co., Ltd
No.5,Shuguang Rd ,West Zone,Ji'an Industrial Park, Ji'an,
Jiangxi 343100 China

Sample Description

Product : Power Bank

Model No. : WIAWHT100097966, LACP011

Brand Name : onn.

Electrical Rating : Input: DC 5V 3A,9V 2.22A
Output: USB-C DC 5V 3A, 9V 2A
Wireless Output: 15.0W Max
Output total: 15W Max

Date Received : 25 October 2022

Date Test Conducted : 25 October 2022 to 10 November 2022

Test Requested : Test for compliance with CFR 47 part 1

Test Method : Environmental evaluation and exposure limit according
to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass

Conclusion : When determining of test conclusion, measurement
uncertainty of tests have been considered.

***** End of Page *****

Prepared and Checked By:



Tenet Cao
Assistant Engineer

Approved By:



Peter Kang
Senior Technical Supervisor
Date: 27 December 2022

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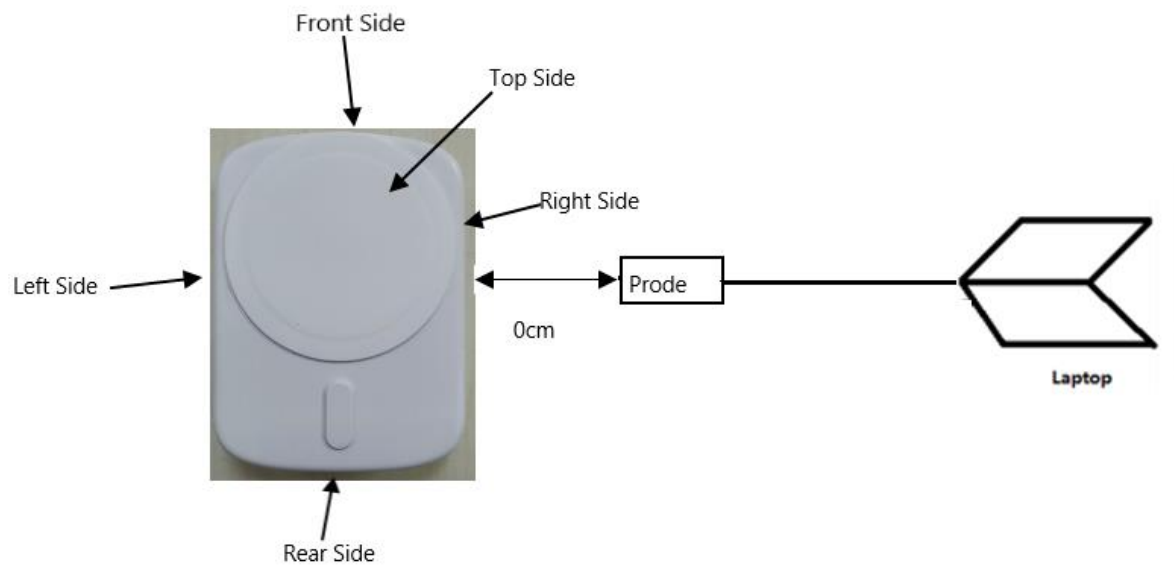
101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.

Tel: (86 755) 8601 6288

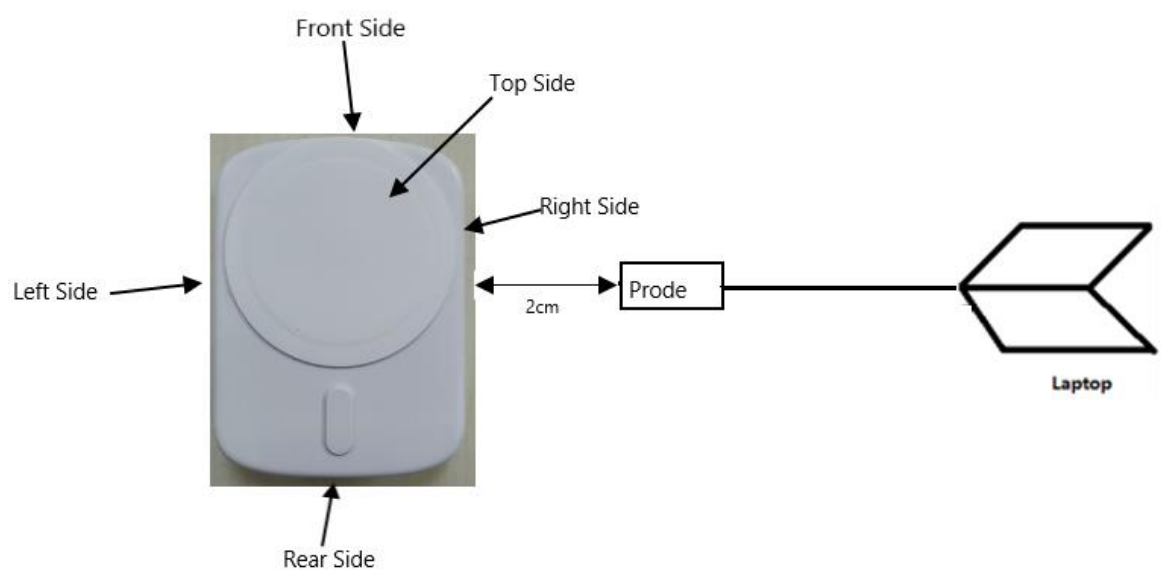
Fax: (86 755) 8601 6751

Test Report

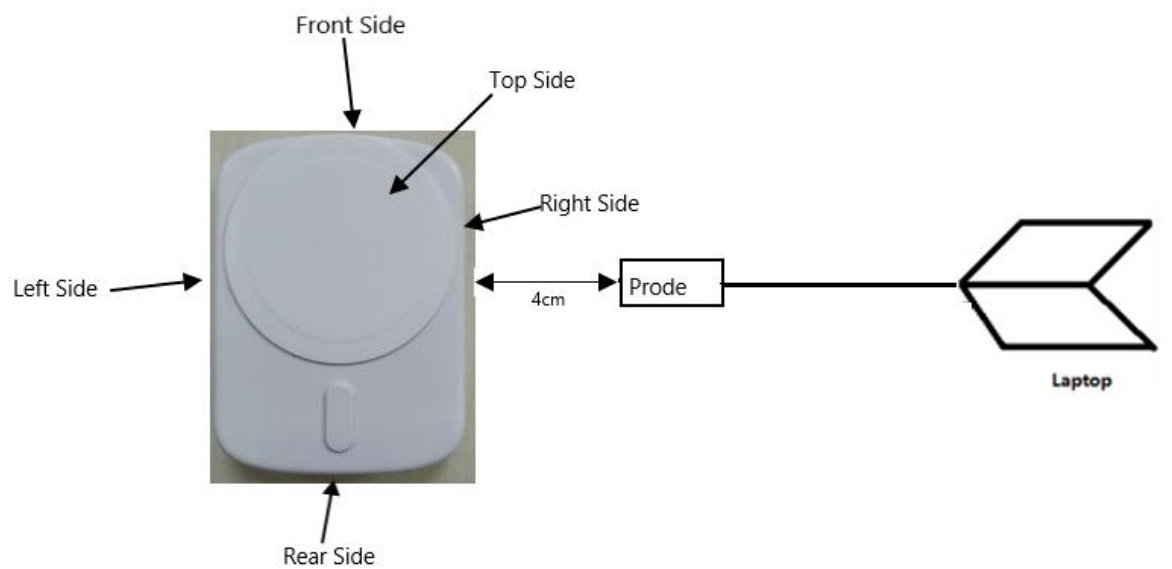
Test Setup Configuration



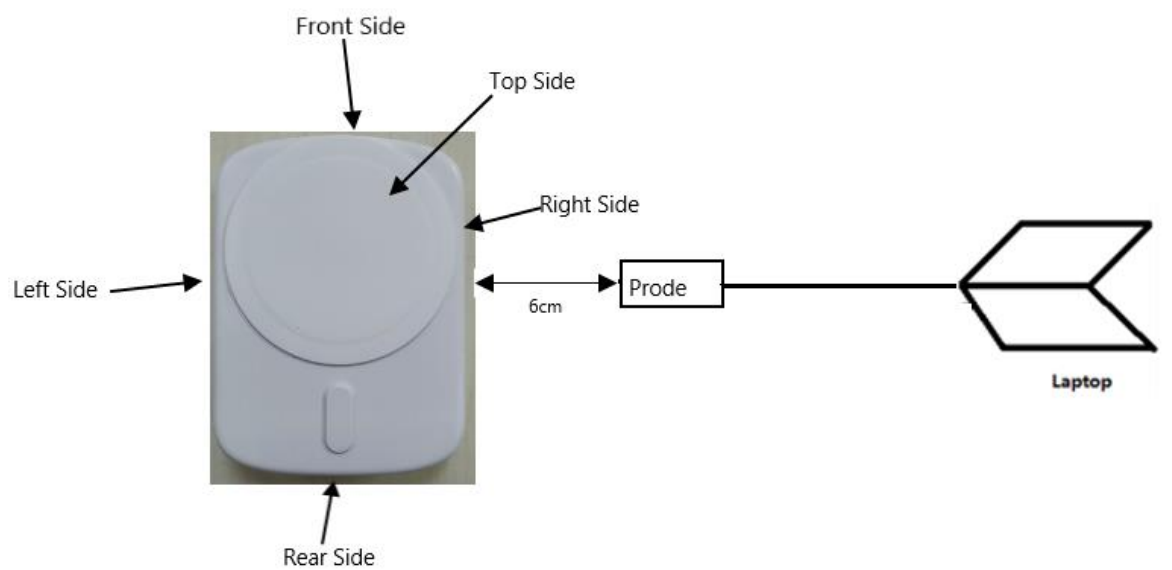
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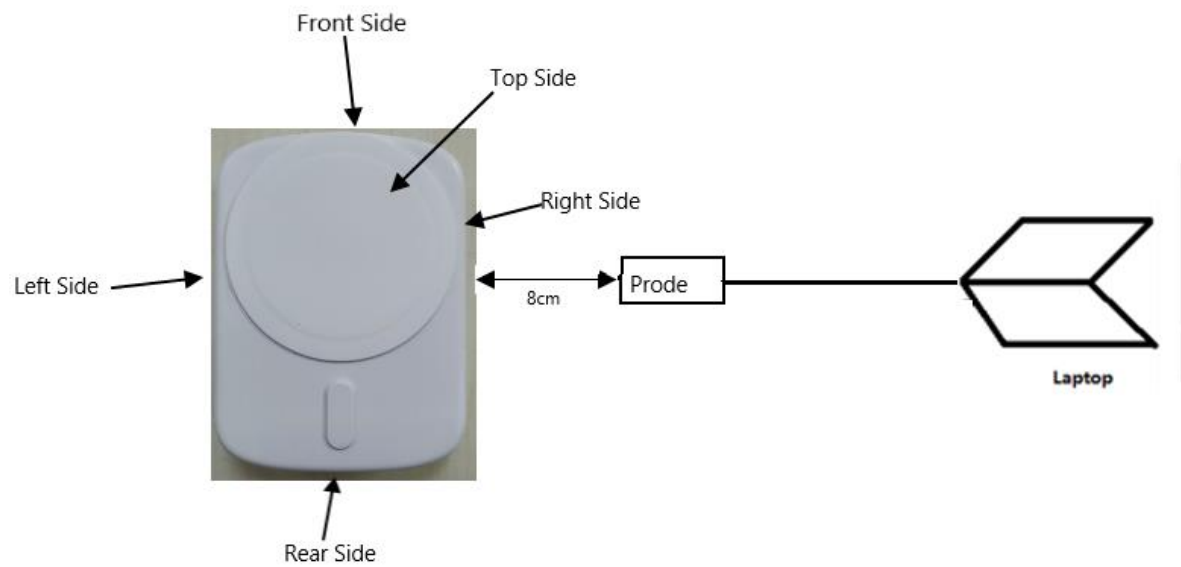
Test Distance: 2cm



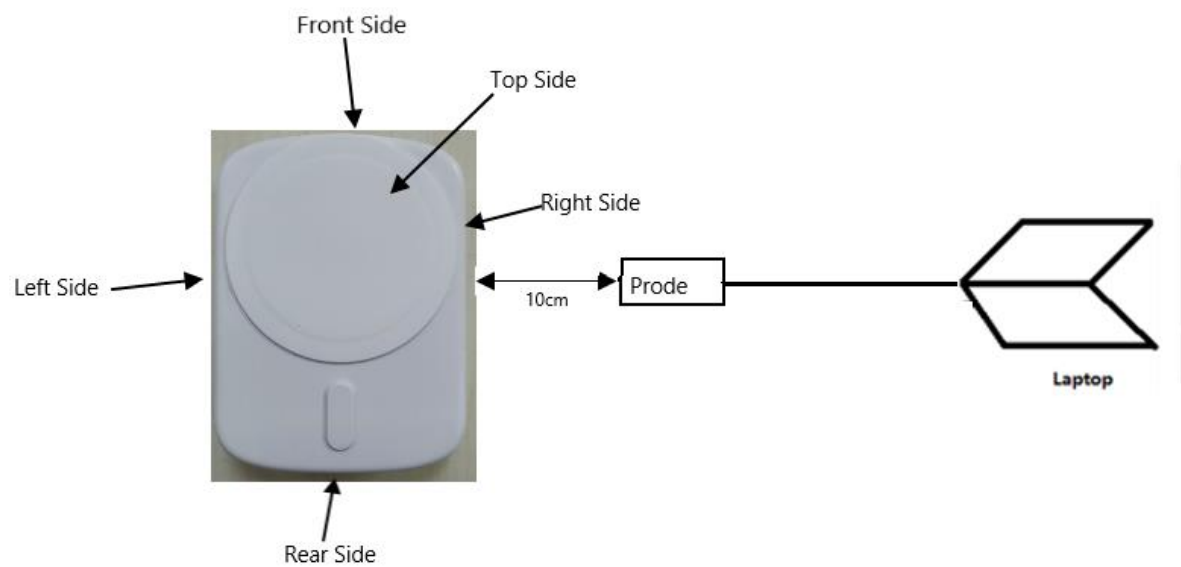
Test Distance: 4cm



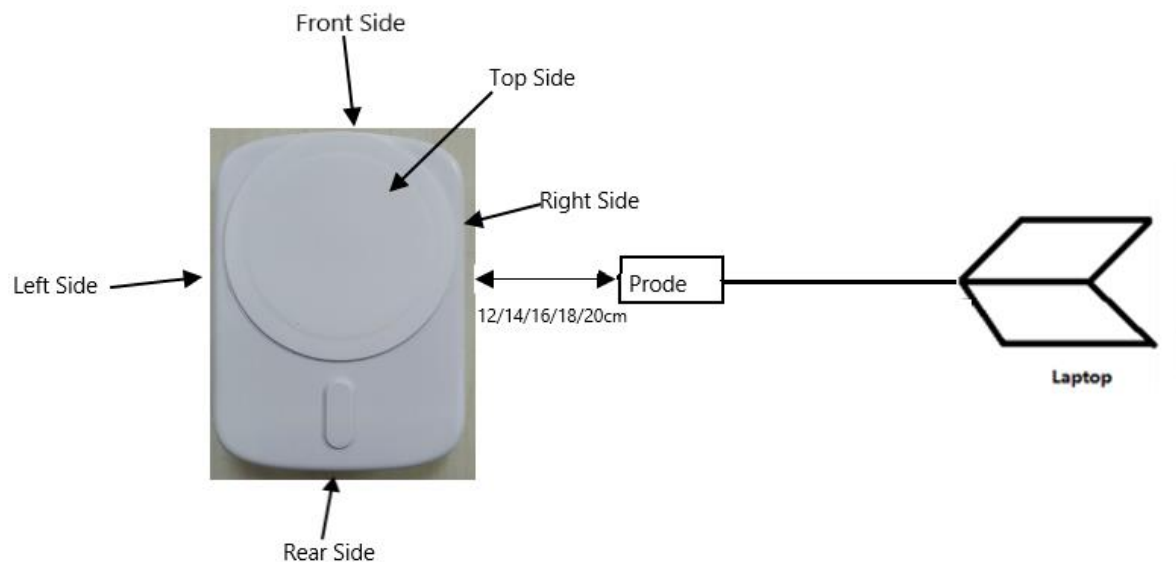
Test Distance: 6cm



Test Distance: 8cm



Test Distance: 10cm



Test Distance: 12, 14cm, 16cm, 18, 20cm

Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the the measurement probe.

The Model: LACP011 is the same as the Model: WIAWHT100097966 in hardware aspect. The difference in model number serves as marketing strategy.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-200A	Narda	28 July 2022	28 July 2023

Support Equipment List

Description	Manufacturer	Detail
Adjustable load	Apple (Provided by applicant)	iPhone 12 pro max

Reference Limit:

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100) *	30

Note: * = Plane wave equivalent power density

Test Result: Pass
H-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0153	0.0153	0.0759	0.1357	0.2078	0.1976	1.63
0.110-0.400	50% Battery Level	0.0137	0.0113	0.0759	0.1157	0.2078	0.2078	1.63
0.110-0.400	99% Battery Level	0.0124	0.0595	0.0582	0.0525	0.2083	0.2166	1.63
0.110-0.400	Stand-by	0.0042	0.0032	0.0045	0.0036	0.0052	0.0089	1.63

E-Field Strength at 0 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.2089	0.2123	0.2527	0.1996	0.7225	0.3826	614
0.110-0.400	50% Battery Level	0.1778	0.2179	0.2423	0.2012	0.7957	0.3716	614
0.110-0.400	99% Battery Level	0.1018	0.1028	0.0874	0.0437	0.7945	0.3338	614
0.110-0.400	Stand-by	0.0729	0.0815	0.0786	0.0699	0.0490	0.0291	614

H-Field Strength at 2 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0143	0.0143	0.0859	0.1057	0.2078	0.1986	1.63
0.110-0.400	50% Battery Level	0.0157	0.0143	0.0859	0.1057	0.2078	0.2088	1.63
0.110-0.400	99% Battery Level	0.0134	0.0592	0.0582	0.0515	0.2083	0.2176	1.63
0.110-0.400	Stand-by	0.0027	0.0031	0.0033	0.0028	0.0048	0.0091	1.63

E-Field Strength at 2 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.2189	0.2133	0.2537	0.1993	0.7235	0.3806	614
0.110-0.400	50% Battery Level	0.1878	0.2189	0.2413	0.2042	0.7947	0.3714	614
0.110-0.400	99% Battery Level	0.1008	0.1018	0.0871	0.0407	0.7947	0.3308	614
0.110-0.400	Stand-by	0.0708	0.0805	0.0780	0.0680	0.0476	0.0284	614

H-Field Strength at 4 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0132	0.0123	0.0849	0.1157	0.1938	0.1916	1.63
0.110-0.400	50% Battery Level	0.0145	0.0133	0.0849	0.1257	0.2008	0.2018	1.63
0.110-0.400	99% Battery Level	0.0123	0.0492	0.0532	0.0415	0.2013	0.2136	1.63
0.110-0.400	Stand-by	0.0021	0.0022	0.0029	0.0031	0.0041	0.0094	1.63

E-Field Strength at 4 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.1945	0.2033	0.2137	0.1993	0.6135	0.0306	614
0.110-0.400	50% Battery Level	0.1842	0.2089	0.2213	0.2012	0.6347	0.0414	614
0.110-0.400	99% Battery Level	0.1311	0.1418	0.0971	0.1827	0.6947	0.0308	614
0.110-0.400	Stand-by	0.0724	0.0814	0.0772	0.0697	0.0470	0.0477	614

H-Field Strength at 6 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0130	0.0143	0.0956	0.0878	0.1482	0.0396	1.63
0.110-0.400	50% Battery Level	0.0190	0.0190	0.0894	0.0805	0.1144	0.0284	1.63
0.110-0.400	99% Battery Level	0.0169	0.0181	0.0591	0.0526	0.1662	0.0179	1.63
0.110-0.400	Stand-by	0.0126	0.0020	0.0031	0.0037	0.0049	0.0093	1.63

E-Field Strength at 6 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.1724	0.2183	0.2138	0.1947	0.6718	0.3800	614
0.110-0.400	50% Battery Level	0.1867	0.2398	0.2441	0.2197	0.6981	0.3712	614
0.110-0.400	99% Battery Level	0.1008	0.1010	0.0888	0.0393	0.6546	0.3308	614
0.110-0.400	Stand-by	0.0708	0.0814	0.0762	0.0676	0.0388	0.3283	614

H-Field Strength at 8 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0138	0.0096	0.0086	0.0109	0.0484	0.0397	1.63
0.110-0.400	50% Battery Level	0.0128	0.0098	0.0087	0.0108	0.0435	0.0281	1.63
0.110-0.400	99% Battery Level	0.0144	0.0095	0.0094	0.0102	0.065	0.0180	1.63
0.110-0.400	Stand-by	0.0026	0.0028	0.0024	0.0030	0.0045	0.0090	1.63

E-Field Strength at 8 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0756	0.0849	0.0787	0.1960	0.1116	0.0808	614
0.110-0.400	50% Battery Level	0.0757	0.0837	0.0820	0.2211	0.1084	0.0701	614
0.110-0.400	99% Battery Level	0.0702	0.0817	0.0873	0.2001	0.1132	0.0711	614
0.110-0.400	Stand-by	0.0718	0.0801	0.0761	0.0689	0.0485	0.0283	614

H-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0108	0.0074	0.0078	0.0169	0.0484	0.0384	1.63
0.110-0.400	50% Battery Level	0.0108	0.0088	0.0078	0.0104	0.0435	0.0282	1.63
0.110-0.400	99% Battery Level	0.0134	0.0091	0.0093	0.0121	0.0465	0.0375	1.63
0.110-0.400	Stand-by	0.0025	0.0032	0.0030	0.0030	0.0051	0.0094	1.63

E-Field Strength at 10 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0756	0.0849	0.0787	0.1960	0.1116	0.0808	614
0.110-0.400	50% Battery Level	0.0757	0.0837	0.0820	0.2211	0.1084	0.0701	614
0.110-0.400	99% Battery Level	0.0702	0.0817	0.0873	0.2001	0.1132	0.0711	614
0.110-0.400	Stand-by	0.0706	0.0808	0.0773	0.0683	0.0484	0.0290	614

H-Field Strength at 12 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0104	0.0072	0.0076	0.0155	0.0434	0.0274	1.63
0.110-0.400	50% Battery Level	0.0103	0.0083	0.0074	0.0103	0.0415	0.0252	1.63
0.110-0.400	99% Battery Level	0.0124	0.0081	0.0092	0.0115	0.0415	0.0275	1.63
0.110-0.400	Stand-by	0.0032	0.0031	0.0033	0.0029	0.0049	0.0085	1.63

E-Field Strength at 12 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0746	0.0749	0.0784	0.1997	0.1113	0.0708	614
0.110-0.400	50% Battery Level	0.0727	0.0737	0.0824	0.2011	0.1082	0.0621	614
0.110-0.400	99% Battery Level	0.0701	0.0717	0.0872	0.1971	0.1131	0.0704	614
0.110-0.400	Stand-by	0.0022	0.0702	0.0770	0.0691	0.0470	0.0281	614

H-Field Strength at 14 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0075	0.0079	0.0963	0.0957	0.0585	0.0597	1.63
0.110-0.400	50% Battery Level	0.0088	0.0071	0.0886	0.0953	0.0656	0.0525	1.63
0.110-0.400	99% Battery Level	0.0104	0.0083	0.0587	0.0646	0.0579	0.0521	1.63
0.110-0.400	Stand-by	0.0024	0.0024	0.0033	0.0029	0.0052	0.0087	1.63

E-Field Strength at 14 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0504	0.2185	0.2145	0.2151	0.1215	0.0711	614
0.110-0.400	50% Battery Level	0.0633	0.2396	0.2429	0.2493	0.1369	0.0702	614
0.110-0.400	99% Battery Level	0.0621	0.0999	0.0871	0.0497	0.0331	0.0497	614
0.110-0.400	Stand-by	0.0726	0.0806	0.0784	0.0696	0.0488	0.0287	614

H-Field Strength at 16 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0055	0.0072	0.0943	0.0875	0.0565	0.0597	1.63
0.110-0.400	50% Battery Level	0.0086	0.0061	0.0876	0.0906	0.0651	0.0425	1.63
0.110-0.400	99% Battery Level	0.0088	0.0073	0.0583	0.0616	0.0572	0.0421	1.63
0.110-0.400	Stand-by	0.0029	0.0020	0.0023	0.0027	0.0048	0.0098	1.63

E-Field Strength at 16 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0504	0.2185	0.2145	0.2151	0.1215	0.0711	614
0.110-0.400	50% Battery Level	0.0633	0.2396	0.2429	0.2493	0.1369	0.0702	614
0.110-0.400	99% Battery Level	0.0621	0.0999	0.0871	0.0497	0.0331	0.0497	614
0.110-0.400	Stand-by	0.0408	0.0408	0.0481	0.0477	0.0468	0.0284	614

H-Field Strength at 18 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0045	0.0052	0.0913	0.0875	0.0495	0.0497	1.63
0.110-0.400	50% Battery Level	0.0076	0.0051	0.0836	0.0906	0.0451	0.0325	1.63
0.110-0.400	99% Battery Level	0.0078	0.0053	0.0569	0.0616	0.0372	0.0281	1.63
0.110-0.400	Stand-by	0.0022	0.0023	0.0027	0.0026	0.0040	0.0098	1.63

E-Field Strength at 18 cm surrounding the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0504	0.2185	0.2155	0.1951	0.1115	0.0811	614
0.110-0.400	50% Battery Level	0.0633	0.2396	0.2439	0.2193	0.1069	0.0702	614
0.110-0.400	99% Battery Level	0.0621	0.0999	0.0871	0.0397	0.0131	0.0297	614
0.110-0.400	Stand-by	0.0729	0.0798	0.0769	0.0679	0.0470	0.0272	614

H-Field Strength at 20 cm surrounding the EUT

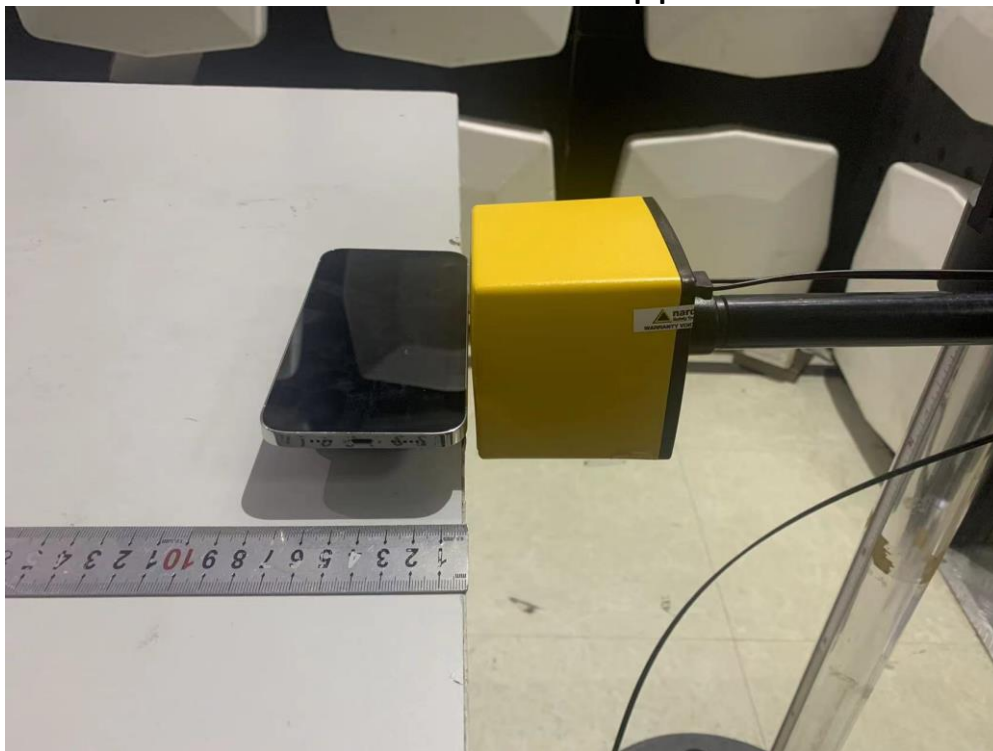
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Probe Position Bottom (A/m)	Limits (A/m)
0.110-0.400	1% Battery Level	0.0042	0.0042	0.0963	0.0875	0.0485	0.0397	1.63
0.110-0.400	50% Battery Level	0.0039	0.0041	0.0886	0.0806	0.0441	0.0285	1.63
0.110-0.400	99% Battery Level	0.0042	0.0043	0.0589	0.0516	0.0272	0.0181	1.63
0.110-0.400	Stand-by	0.0027	0.0028	0.0032	0.0034	0.0047	0.0091	1.63

E-Field Strength at 20 cm surrounding the EUT

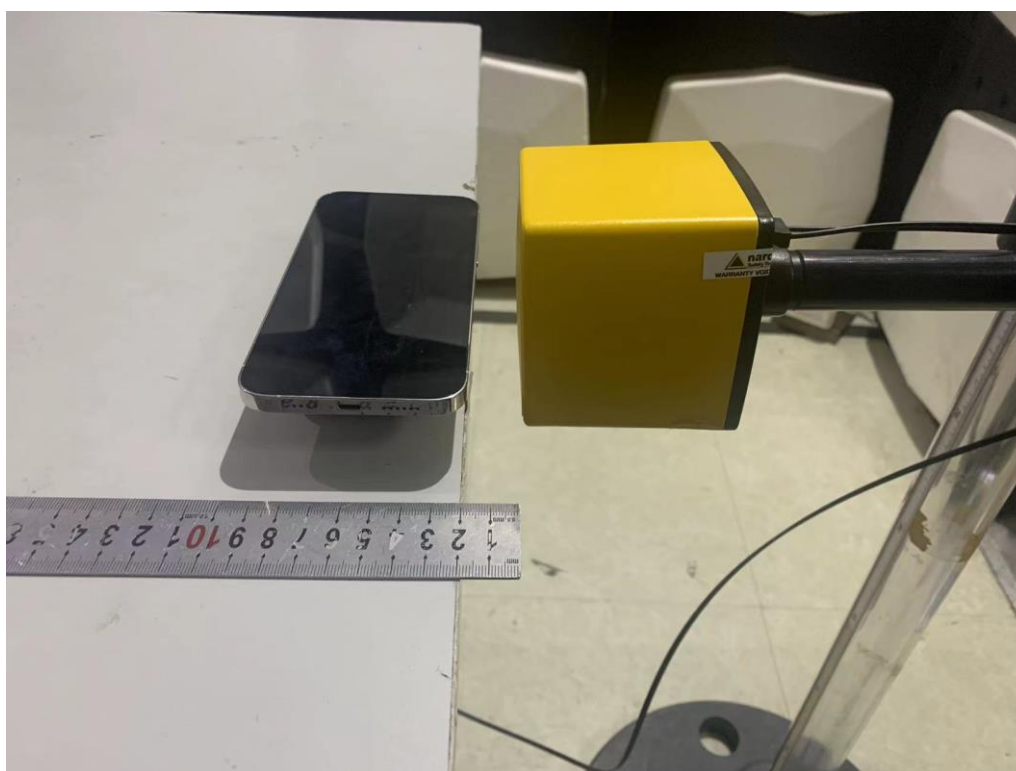
Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Probe Position Bottom (V/m)	Limits (V/m)
0.110-0.400	1% Battery Level	0.0569	0.0481	0.2140	0.1957	0.1104	0.0807	614
0.110-0.400	50% Battery Level	0.1888	0.0547	0.2451	0.2210	0.1081	0.0715	614
0.110-0.400	99% Battery Level	0.0569	0.0498	0.0878	0.0395	0.0153	0.0294	614
0.110-0.400	Stand-by	0.0225	0.0231	0.0375	0.0393	0.0488	0.0285	614

Configuration photo of the test:

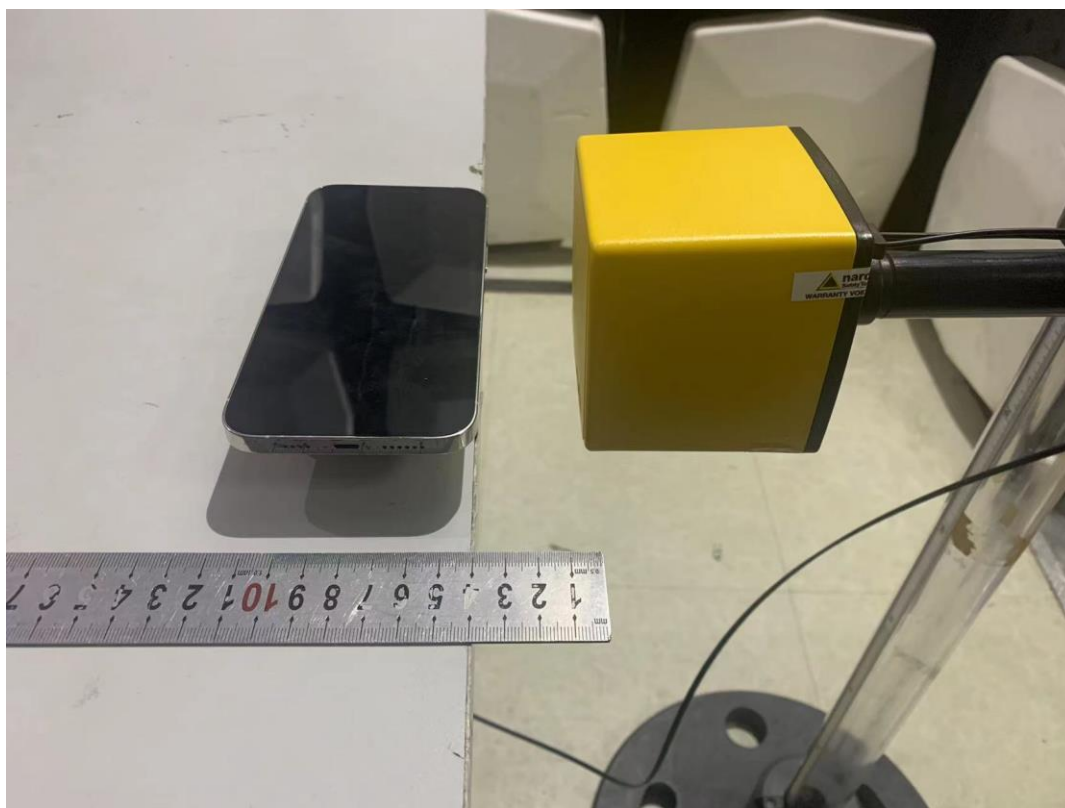
E-Field and H-Field Test Setup photos



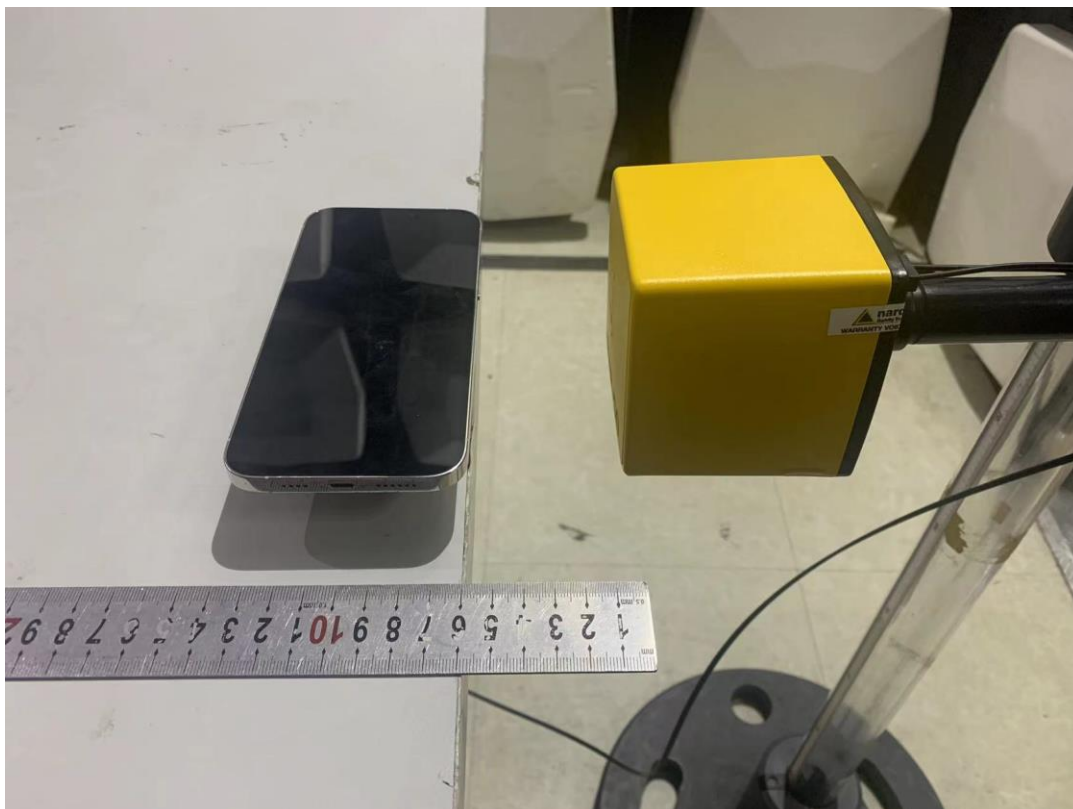
Test Distance: 0 cm



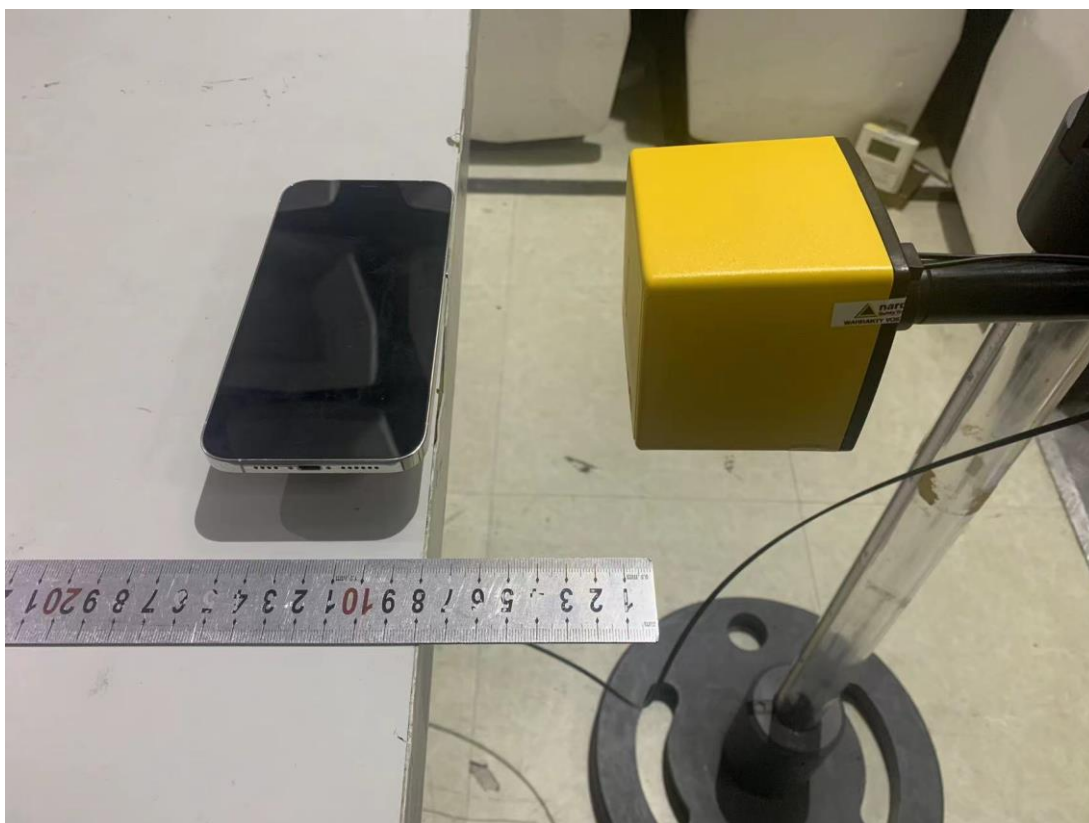
Test Distance: 2 cm



Test Distance: 4 cm



Test Distance: 6 cm



Test Distance: 8 cm



Test Distance: 10 cm



Test Distance: 20 cm

***** End of Report*****