

TEST REPORT

Report No.: 8329EU010903W2

Applicant: Prime Brands Group Inc.

Address: 68 35th Street Unit 38, Suite B634, Brooklyn, NY 11232

USA

Product Name: Wireless Charging Power Bank

Model No.: PGM2PK (refer to clause 2.4)

Trademark: N/A

FCC ID: 2AY4Z-PGM2PK

Test Standard(s): 47 CFR Part 1 Subpart I Section 1.1310

47 CFR Part 2, Subpart J, Section 2.1093

Test Result: Pass

Date of Receipt: Apr. 09, 2025

Test Date: Apr. 09, 2025 – Apr. 21, 2025

Date of Issue: May 07, 2025

ISSUED BY:

Prepared by:

SHENZHEN EU TESTING LABORATORY LIMIT

Reviewed and Approved by:

Mikey Zhu/ Engineer

Sally Zhang/ Manager



Page 2 of 19 Report No.: 8329EU010903W2

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Page 3 of 19

Table of Contents

1	COV	'ER PAGE	1
2	GEN	ERAL INFORMATION	4
	2.1 2.2 2.3 2.4 2.5	APPLICANT INFORMATION	4 4
3		T SUMMARY	
	3.1 3.2 3.3	TEST STANDARDTEST VERDICTTEST LABORATORY	6 6
4	TEST	T CONFIGURATION	
	4.1 4.2 4.3 4.4	TEST ENVIRONMENT TEST EQUIPMENT TEST MODE MEASUREMENT UNCERTAINTY	7 8
5	TEST	T METHODOLOGY	
	5.1 5.2 5.3 5.4 5.5	REFERENCE EVALUATION METHOD	9 10 11
A NINI	= Y A	TEST SETUD BUOTOS	45

TRF No.: FCC MPE_WPT (A02)

Report No.: 8329EU010903W2



Page 4 of 19 Report No.: 8329EU010903W2

2 General Information

2.1 Applicant Information

Applicant	Prime Brands Group Inc.
Address	68 35th Street Unit 38, Suite B634, Brooklyn, NY 11232 USA

2.2 Manufacturer Information

Manufacturer	HONG KONG ETECH GROUPS LIMITED
Address	ROOM 747, 7/F, STAR HOUSE, 3 SALISBURY ROAD, TSIM SHA TSUI, HONGKONG

2.3 Factory Information

Factory	HONG KONG ETECH GROUPS LIMITED
Address	ROOM 747, 7/F, STAR HOUSE, 3 SALISBURY ROAD, TSIM SHA TSUI, HONGKONG

2.4 General Description of E.U.T.

Product Name	Wireless Charging Power Bank	
Model No. Under Test	PGM2PK	
List Model No.	NCAA-PGM2PK, NFL-PGM2PK, NBA-PGM2PK, MLB-PGM2PK, NHL-PGM2PK,	
LIST MODEL 140.	NCAA-PGM3, NFL-PGM3, NBA-PGM3, NHL-PGM3, MLB-PGM3	
Description of Model	All models are same with electrical parameters and internal circuit structure, but	
differentiation	only differ in appearance and model name.	
	(this information provided by the customer)	
	Micro Input: 5V==-2A	
	Type-C Input: 5V==2A	
Rating(s)	Type-C Output: 5V===2A	
rtating(3)	USB Output: 5V===2A	
	Wireless Charging Output: 5W	
	Battery Capacity: 3.70VDC, 5000mAh, 18.5Wh	
	☐ Mobile	
Product Type	⊠ Portable	
	☐ Fix Location	
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)	
Hardware Version	V1.0	
Software Version	V1.0	
Remark	For a more detailed features description, please refer to the manufacturer's	
Noman	specifications or the User's Manual.	



Page 5 of 19 Report No.: 8329EU010903W2

2.5 Technical Information of E.U.T.

Network and	MI L D T ((MIDT)
Wireless Connectivity	Wireless Power Transfer (WPT)

The requirement for the following technical information of the EUT was tested in this report:

Technology	WPT
Operating Frequency	110.1-205KHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna Gain(Peak)	0 dBi
Remark	The above information is declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.





Page 6 of 19 Report No.: 8329EU010903W2

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.
2	47 CFR Part 2, Subpart J, Section 2.1093	Radiofrequency radiation exposure evaluation: portable devices
3	KDB 680106 D01v04	RF exposure consideration for low power consumer wireless power transfer applications.

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	RF Exposure Evaluation	FCC 1.1310 FCC 2.1093 KDB 680106 D01 Wireless Power Transfer v04	Pass	

3.3 Test Laboratory

Test Laboratory Shenzhen EU Testing Laboratory Limited		
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China	
Designation Number	CN1368	
Test Firm Registration Number	952583	



Page 7 of 19 Report No.: 8329EU010903W2

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

During the measurement, the normal environmental conditions were within the listed ranges.		
Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	120 VAC, 60Hz

4.2 Test Equipment

Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Electric and Magnetic Field Probe - Analyzer	Narda	EHP-200A	EE-405	2024/02/15	2025/02/14

Electric and Magnetic Field Probe - Analyzer EHP-200A detailed parameters are as follows.

Dynamic range	>80					
SPAN	0 to FULL SPAN					
RBW	1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz, 300 kHz					
Measurement range	> 94 dB					
Calibration	internal E2PROM					
Temperature error	0.02 dB/°C					
Dimensions	92 x 92 x 109 mm					
Weight	550 g					
Preamplifier	selectable ON/OFF, 14dB					
Units	V/m, A/m, uT, mW/cm2, W/m2					
Internal battery	3.7 V - 5.55 Ah Li-Ion, rechargeable					
Operation	> 12 hours					
Recharging time	< 8 hours					
External supply	10 to 15 Vdc, I = approx. 560 mA					
Optical fiber connection	up to 40 m (USB-OC) up to 80 m (8053-OC)					
Firmware updating	through the optical link via EHP200-TS					
Self test	automatic at power on					
Operating temperature	-10°C to +50°C					
Storage temperature	-20°C to +70°C					
Enviromental protection	IP42					



Page 8 of 19 Report No.: 8329EU010903W2

4.3 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was prescanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned bellow was evaluated respectively.

1110000	mentioned beliew was evaluated respectively.	
No.	Description	Remark
TM1	Wireless Output (5W for Phone) + Empty Load	Record
TM2	Wireless Output (5W for Phone) + Half Load	
TM3	Wireless Output (5W for Phone) + Full Load	
TM4	Standby	

Note:

4.4 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test Item	Measurement Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.6%
Electric field measurements(3kHz~10MHz)	±17.3%

^{1.} All the conditions have been tested. It is found that TM3 is the worst mode, and the data in the report only reflects the worst mode.



Page 9 of 19 Report No.: 8329EU010903W2

5 Test Methodology

5.1 Reference Evaluation Method

- ANSI C95.1-1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz.
- ♦ FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v04: RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications
- ♦ FCC CFR 47 Part 1.1310: Radiofrequency radiation exposure limits.
- ♦ FCC CFR 47 Part 2.1093: Radiofrequency radiation exposure evaluation: portable devices
- ♦ FCC CFR 47 Part 18.107: Industrial, Scientific, and Medical Equipment
- April 2024 TCBC Workshop: Part 18 Wireless Power Transfer Devices: Clarifications on KDB 680106v04 and ECR Processes.

5.2 Limit

According to FCC CFR 47 § 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 as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)							
(i) Limits for Occupational/Controlled Exposure											
0.3-3.0	614	1.63	*(100)	≤6							
3.0-30	1842/f	4.89/f	*(900/f ²)	<6							
30-300	61.4	0.163	1.0	<6							
300-1,500			f/300	<6							
1,500-100,000			5	<6							
	(ii) Limits for	General Population/Uncontrolled Exposur	re								
0.3-1.34	614	1.63	*(100)	<30							
1.34-30	824/f	2.19/f	*(180/f ²)	<30							
30-300	27.5	0.073	0.2	<30							
300-1,500			f/1500	<30							
1,500-100,000			1.0	<3							

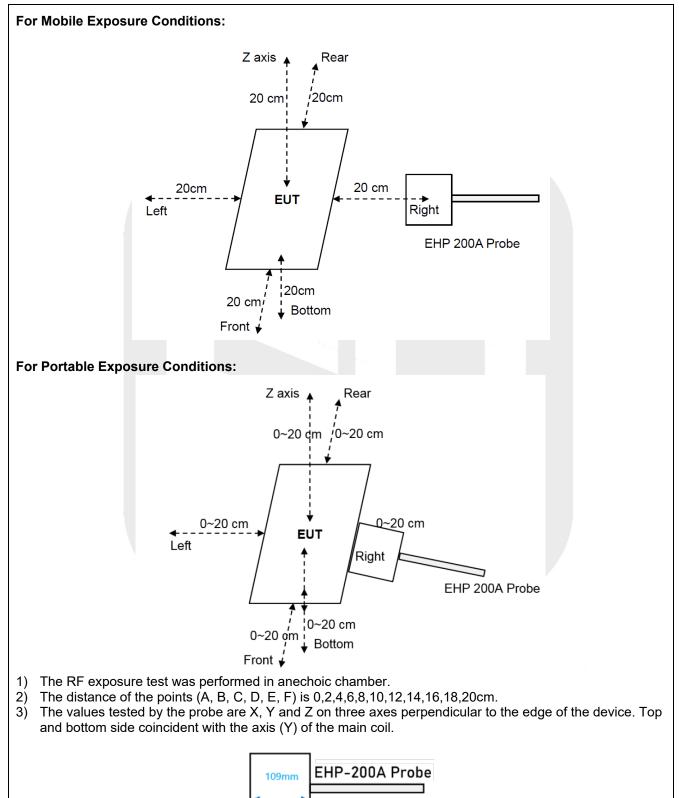
f = frequency in MHz. * = Plane-wave equivalent power density.

Note 1: Occupational/ controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



5.3 Test Setup Diagram



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Note: The EHP-200A Probe has a diameter of 10.9cm and a radius of 5.45cm.

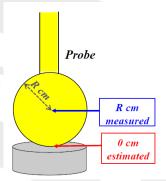
Report No.: 8329EU010903W2

Page 11 of 19 Report No.: 8329EU010903W2

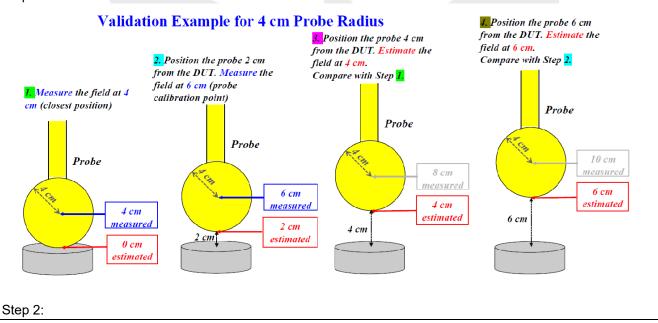
5.4 Measurement Procedure

For Portable Exposure Conditions:

- 1) The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.
- 2) Operating modes with client device (1%, 50%, 99% battery status of client device), have been tested, only show the data of worst case of 1% battery status of client device.
- 3) Test performed with all the radiating structures operating at maximum power at the same time.
- 4) E-field and H-field measurements are taken along all three axes the device from 0cm to 20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing elements is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.
- 5) Validation of Field Estimates
- a) If R is the probe radius and the probe tip is in contact with the coil, then the probe center is R cm from the coil surface as bellow picture:

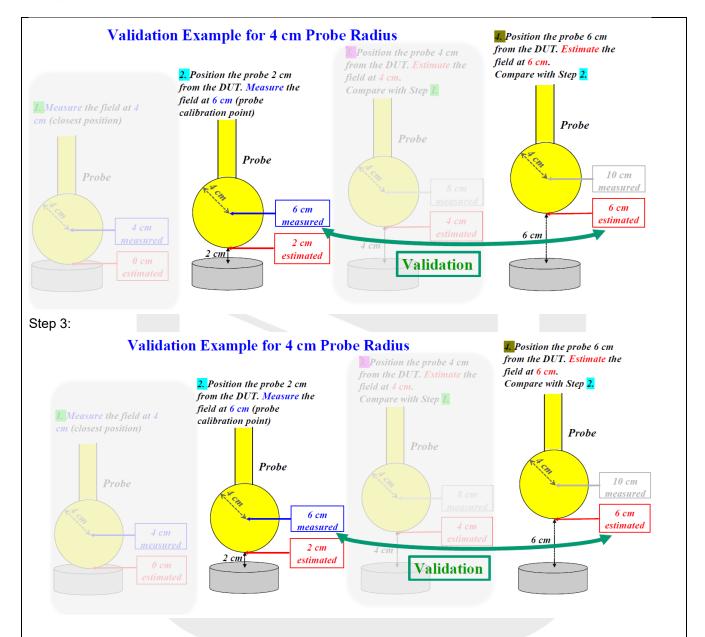


- b) The probe then is measuring the field correctly at R cm from the surface, and only estimating the field at the 0 cm point of contact with the coil surface.
- c) The validation requires showing that the model used to estimate the field provides data within 30% accuracy for at least the two, 2-cm-spaced closest points to where the estimates were made.
- d) If there is only on estimated value, then a single validation point is sufficient.
- e) Validation Example for 4 cm Probe Radius as following Step 1:



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Page 12 of 19 Report No.: 8329EU010903W2



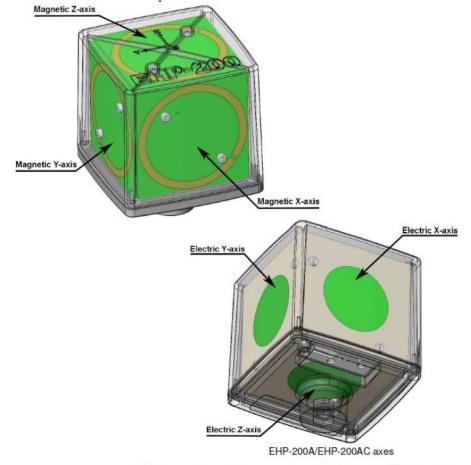
Description of the Validation Example for 4 cm Probe Radius

- Assume that R=4 cm. The field at 0 cm can only be estimated, but the field at 4 cm is measured exactly (at the center of the probe)
- Move the probe at 2 cm from the surface. The field at 2 cm can still only be estimated, but the field at 6 cm is measured exactly.
- Compare the estimate with the values at the same positions where the field was measured exactly (i.e. 4 cm and 6 cm)
- The difference between measurements and estimates needs to be no more than 30%.
- The validation of the estimates needs to be for the two closest points to the coil, but at least 2 cm apart (in this case they are). This is to avoid a validation at, say 2 cm and another on at 2.1cm, that is essentially a repetition.
- 6) According to Calibration information and specification about EHP-200A Probe, the probe's sensitive elements center are 8mm below the external surface, and the dimensions is 92*92*109mm, so the actual 0cm field strengths need to be estimated for the positions that are not reachable, only the result of test distance 2cm~20cm was measured value. The Extrapolated Value Calculation Method is described below.

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Page 13 of 19 Report No.: 8329EU010903W2

Length	Width	Height	
(mm)	(mm)	(mm)	
109	92		

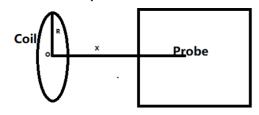


The sensitive elements are located approximately 8 mm below the external surface

Estimated method for portable RF Exposure condition:

We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:

Top & Bottom Side:



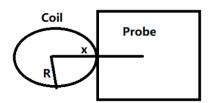
$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

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Front, left, right & rear Side:



$$B = \frac{\mu_0 * I * N}{2 * x}$$

Report No.: 8329EU010903W2

Where:

B: means H-field value.

 μ_0 : space permeability; u0=4 π *10⁻⁷:

I: A current element passing through a coil:

R: means the Radius of coil;

Test Distance: The distance from the sensing element of the probe to the edge of the device surface

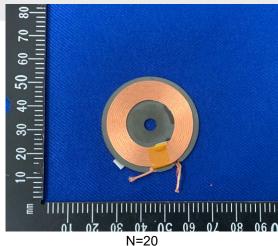
x: means the center of the coil to the sensing elements of the probe. (For top & bottom side: x=test distance.

For other side: x=test distance +R)

N: Number of turns.

The conditions of EUT:





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Page 15 of 19 Report No.: 8329EU010903W2

For validation purposes:

If the value to show a **30% agreement** between the model and the (E-and/or H-Field) probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

Validation:

H-Field Magnetic Field Emissions										
Test Distance (cm)	Тор	Bottom	Front	Rear	Left	Right	Conclusion			
2cm(estimated) (A/m)	0.3724	0.3056	0.2418	0.2229	0.1601	0.2857	Commission			
2cm(measured) (A/m)	0.4477	0.3820	0.2623	0.2587	0.1662	0.2950	Compliance within 30%			
Agreement (%)	18.36	22.22	8.13	14.87	3.74	3.20	WIGHT 30 70			

E-Field Magnetic Field Emissions										
Test Distance (cm)	Тор	Bottom	Front	Rear	Left	Right	Conclusion			
2cm(estimated) (V/m)	32.6297	34.2993	30.2256	33.2271	31.1495	30.2584	Commission			
2cm(measured) (V/m)	35.4283	39.3656	36.2477	40.2415	38.1594	37.2887	Compliance within 30%			
Agreement (%)	8.22	13.75	18.12	19.09	20.23	20.82	Within 30 /0			

H-Field Magnetic Field Emissions										
Test Distance (cm)	Тор	Bottom	Front	Rear	Left	Right	Conclusion			
4cm(estimated) (A/m)	0.2365	0.2138	0.1851	0.1907	0.1506	0.2480	Compliance			
4cm(measured) (A/m)	0.2671	0.2407	0.2175	0.2196	0.1585	0.2634	Compliance within 30%			
Agreement (%)	12.15	11.84	16.10	14.09	5.11	6.02	Within 30 70			

E-Field Magnetic Field Emissions										
Test Distance (cm)	Тор	Bottom	Front	Rear	Left	Right	Conclusion			
4cm(estimated) (V/m)	30.2276	37.2053	35.1778	29.1735	38.1368	36.2173	0			
4cm(measured) (V/m)	33.2424	41.2251	39.2012	34.1983	42.1437	39.2392	Compliance within 30%			
Agreement (%)	9.50	10.25	10.82	15.86	9.98	8.01	WIGHII 30 70			

Note:

1. The percent ratio of agreement is the difference between the estimated and measured values divided by the average of the estimated and measured values.



Page 16 of 19 Report No.: 8329EU010903W2

5.5 Evaluation Result

Test Condition: Test Mode 10 operating with client device (1% battery status of client device)

Distance H-Field Results (A/m)									
Distance			Limit	Conclusion					
(cm)	Тор	Bottom	Left	Right	Front	Back	(A/m)	Conclusion	
0	0.6313	0.5147	0.3385	0.3379	0.2129	0.3469	1.63	Compliance	
2	0.4471	0.3818	0.2617	0.2584	0.1660	0.2955	1.63	Compliance	
4	0.2663	0.2409	0.2172	0.2199	0.1587	0.2632	1.63	Compliance	
6	0.2124	0.1930	0.1607	0.1702	0.1462	0.2223	1.63	Compliance	
8	0.1872	0.1799	0.1291	0.1325	0.1219	0.1656	1.63	Compliance	
10	0.1738	0.1647	0.1065	0.1137	0.0734	0.1496	1.63	Compliance	
12	0.1656	0.1555	0.0894	0.0907	0.0602	0.1237	1.63	Compliance	
14	0.1517	0.1496	0.0646	0.0742	0.0510	0.1091	1.63	Compliance	
16	0.1476	0.1376	0.0560	0.0638	0.0388	0.0779	1.63	Compliance	
18	0.1429	0.1230	0.0473	0.0492	0.0290	0.0642	1.63	Compliance	
20	0.1393	0.1184	0.0398	0.0414	0.0207	0.0595	1.63	Compliance	

Test Condition: Test Mode 10 operating with client device (1% battery status of client device)

Distance			Limit	Conclusion				
(cm)	Тор	Bottom	Left	Right	Front	Back	(V/m)	Conclusion
0	4.397	7.198	5.018	5.633	4.625	4.623	614	Compliance
2	5.013	4.429	4.631	5.503	4.890	4.018	614	Compliance
4	2.089	3.505	7.368	3.769	5.415	2.778	614	Compliance
6	4.212	6.609	2.864	2.020	3.958	4.049	614	Compliance
8	2.890	3.191	2.592	7.385	2.469	2.373	614	Compliance
10	3.912	3.667	3.386	3.027	4.504	3.209	614	Compliance
12	4.967	4.617	5.199	4.721	7.040	4.756	614	Compliance
14	5.819	4.073	4.678	4.583	5.710	3.528	614	Compliance
16	2.281	4.508	2.361	2.737	2.066	5.838	614	Compliance
18	3.720	3.489	4.501	3.148	6.591	4.071	614	Compliance
20	4.412	2.027	3.316	2.393	4.028	3.883	614	Compliance





ANNEX A TEST SETUP PHOTOS

PHOTO 1

Test Position: Top Distance: 0cm



Report No.: 8329EU010903W2

PHOTO 2



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Page 18 of 19 Report No.: 8329EU010903W2





Page 19 of 19 Report No.: 8329EU010903W2

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