

RF Exposure Report

Report No.: SABHBR-WTW-P21030508

FCC ID: M72-PS21

Test Model: Poly Studio P21

Received Date: Mar. 15, 2021

Test Date: Apr. 13, 2021

Issued Date: Apr. 13, 2021

Applicant: Polycom Inc.

Address: 6001 America Center Drive, San Jose CA 95002, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SABHBR-WTW-P21030508	Original release	Apr. 13, 2021

1 Certificate of Conformity

Product: Personal Meeting Display

Brand: Poly

Test Model: Poly Studio P21

Sample Status: Engineering sample

Applicant: Polycom Inc.

Test Date: Apr. 13, 2021

Standards: FCC Part 1 (Section 1.1307(b), Section 1.1310)
FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :


Polly Chien / Specialist

Date:

Apr. 13, 2021

Approved by :



Bruce Chen / Senior Project Engineer

Date:

Apr. 13, 2021

2 General Information

2.1 General Description of EUT

Product	Personal Meeting Display
Brand	Poly
Test Model	Poly Studio P21
Sample Status	Engineering sample
Power Supply Rating	19.0Vdc (adapter)
Modulation Type	ASK
Operating Frequency	110~190kHz
Antenna Type	Coil antenna (The Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible)
Field Strength	-1.5dBuV/m
Accessory Device	Refer to note
Data Cable Supplied	1.45m Shielded Type-C cable without core

Note:

1. The EUT contains following adapter.

Adapter	
Brand	MASS POWER
Model	E096-1A190421B3
Input Power	100-240Vac, 50/60Hz, 1.5A
Output Power	19.0Vdc, 4.21A, 79.99W
Power cable	AC: 2.62m non-shielding AC cable without core DC: 1.45m shielding DC cable without core

2.2 Description of Test Modes

Tested Frequency (kHz)
153.7

3 RF Exposure

3.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	WPC Load	U-Way	UNIQR-0110	NA	NA	Provided by client
B.	Notebook	HP	15-DK0166TX	NB-HP-15-DK0166TX	NA	Provided by client
C.	USB Flash	SANDISK	SDCZ43	SDCZ430-03	NA	Provided by client
D.	USB Flash	HP	v250W	09	NA	-
E.	Earphone	Plantronics	Blackwire 5220	C-207576-01	NA	Provided by client

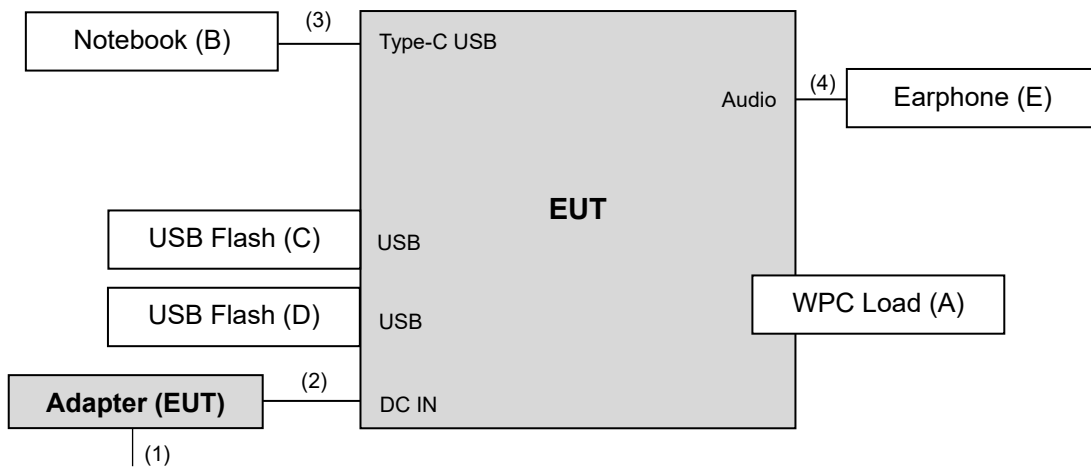
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items B acted as a communication partner to transfer data.

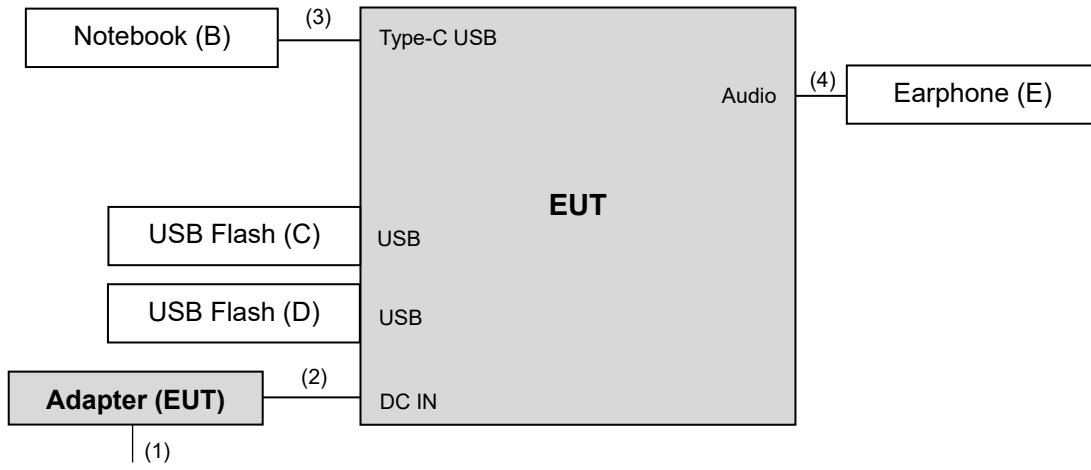
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	AC cable	1	2.62	N	0	Accessory of EUT
2.	DC cable	1	1.45	Y	0	Accessory of EUT
3.	Type-C cable	1	1.45	Y	0	Accessory of EUT
4.	Audio cable	1	1.2	Y	0	-

3.1.1 Configuration of System under Test

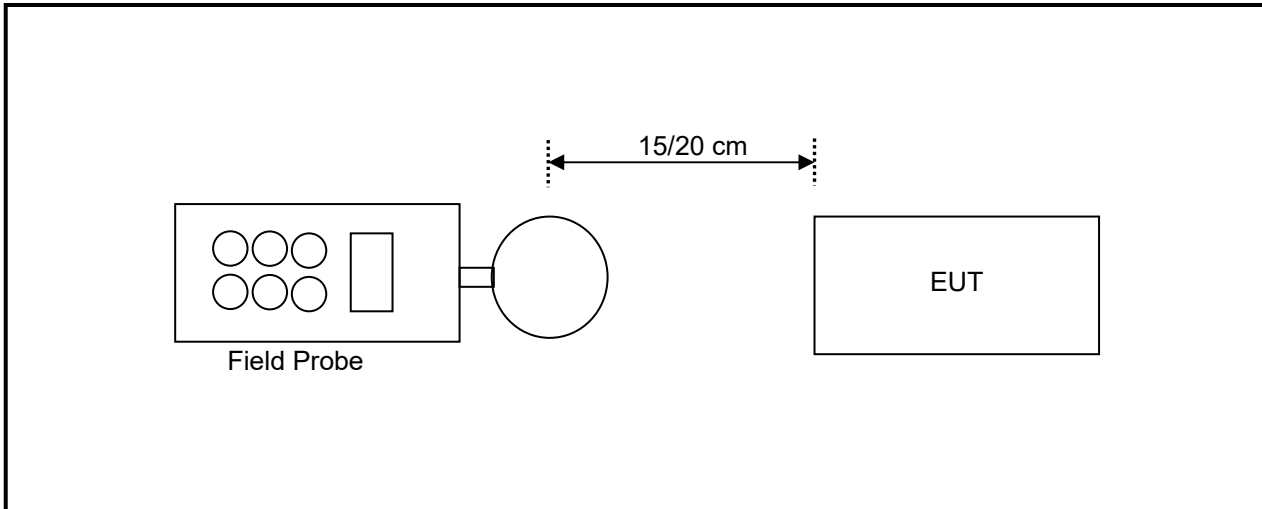
Charging Mode:



Standby Mode:



3.2 Test Setup



Note: Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device.

3.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Electric Field Meter	EMC Master	SMP2 dual	-	Nov. 03, 2020	Nov. 02, 2021
Field Probe	EMC Master	WP400	-	Nov. 03, 2020	Nov. 02, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa RF Chamber

3.4 Limits for Maximum Permissible Exposure (MPE)

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 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)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

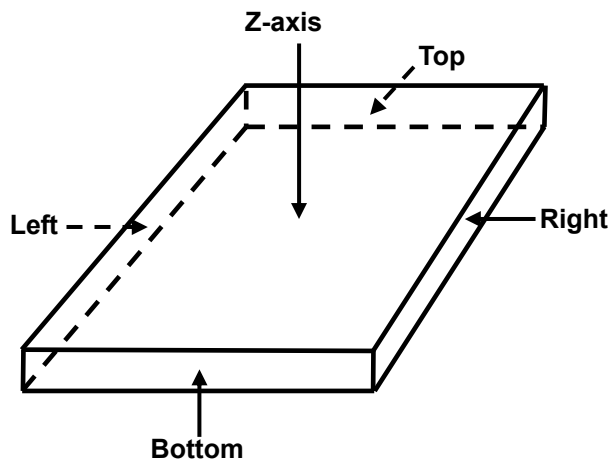
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

680106 D01 RF Exposure Wireless Charging Apps v03r01

The aggregate H-fields strengths at 15 or 0cm surrounding the device and 20 or 0cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

3.5 Test Point Description



4. Calculation Result of Maximum Conducted Power

For 153.7kHz (Charging Mode)

Charging Mode with WPC Load, 10% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max E-field (V/m)	1.5540	1.5390	1.5180	1.4690	1.5840	1.3090
153.7	Limit (V/m)	614	614	614	614	614	614
153.7	Margin (V/m)	-612.4460	-612.4610	-612.4820	-612.5310	-612.4160	-612.6910
153.7	50 % Limit (V/m)	307	307	307	307	307	307
153.7	50 % Margin (V/m)	-305.4460	-305.4610	-305.4820	-305.5310	-305.4160	-305.6910

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max H-field (uT)	0.4280	0.4320	0.4220	0.4730	0.5030	0.3610
153.7	Max H-field (A/m)	0.3424	0.3456	0.3376	0.3784	0.4024	0.2888
153.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
153.7	Margin (A/m)	-1.2876	-1.2844	-1.2924	-1.2516	-1.2276	-1.3412
153.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
153.7	50 % Margin (A/m)	-0.4726	-0.4694	-0.4774	-0.4366	-0.4126	-0.5262

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with WPC Load, 50% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max E-field (V/m)	1.4630	1.4470	1.4260	1.3770	1.4980	1.2180
153.7	Limit (V/m)	614	614	614	614	614	614
153.7	Margin (V/m)	-612.5370	-612.5530	-612.5740	-612.6230	-612.5020	-612.7820
153.7	50 % Limit (V/m)	307	307	307	307	307	307
153.7	50 % Margin (V/m)	-305.5370	-305.5530	-305.5740	-305.6230	-305.5020	-305.7820

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max H-field (uT)	0.3970	0.4010	0.3940	0.4420	0.4760	0.3340
153.7	Max H-field (A/m)	0.3176	0.3208	0.3152	0.3536	0.3808	0.2672
153.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
153.7	Margin (A/m)	-1.3124	-1.3092	-1.3148	-1.2764	-1.2492	-1.3628
153.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
153.7	50 % Margin (A/m)	-0.4974	-0.4942	-0.4998	-0.4614	-0.4342	-0.5478

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with WPC Load, Max Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max E-field (V/m)	1.3680	1.3570	1.3390	1.2870	1.4060	1.1260
153.7	Limit (V/m)	614	614	614	614	614	614
153.7	Margin (V/m)	-612.6320	-612.6430	-612.6610	-612.7130	-612.5940	-612.8740
153.7	50 % Limit (V/m)	307	307	307	307	307	307
153.7	50 % Margin (V/m)	-305.6320	-305.6430	-305.6610	-305.7130	-305.5940	-305.8740

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max H-field (uT)	0.3660	0.3710	0.3650	0.4150	0.4450	0.3080
153.7	Max H-field (A/m)	0.2928	0.2968	0.2920	0.3320	0.3560	0.2464
153.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
153.7	Margin (A/m)	-1.3372	-1.3332	-1.3380	-1.2980	-1.2740	-1.3836
153.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
153.7	50 % Margin (A/m)	-0.5222	-0.5182	-0.5230	-0.4830	-0.4590	-0.5686

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 153.7kHz (Standby Mode)
Standby Mode

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max E-field (V/m)	0.4760	0.4830	0.4960	0.4630	0.5360	0.3920
153.7	Limit (V/m)	614	614	614	614	614	614
153.7	Margin (V/m)	-613.5240	-613.5170	-613.5040	-613.5370	-613.4640	-613.6080
153.7	50 % Limit (V/m)	307	307	307	307	307	307
153.7	50 % Margin (V/m)	-306.5240	-306.5170	-306.5040	-306.5370	-306.4640	-306.6080

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
153.7	Max H-field (uT)	0.0458	0.0445	0.0467	0.0458	0.0573	0.0327
153.7	Max H-field (A/m)	0.0366	0.0356	0.0374	0.0366	0.0458	0.0262
153.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
153.7	Margin (A/m)	-1.5934	-1.5944	-1.5926	-1.5934	-1.5842	-1.6038
153.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
153.7	50 % Margin (A/m)	-0.7784	-0.7794	-0.7776	-0.7784	-0.7692	-0.7888

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

5. Photographs of the Test Configuration

Please refer to the attached file (Test Setup Photo).

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