

RF Exposure Report

Report No.: SA191021C11

FCC ID: M72-P017

Test Model: P017

Received Date: Oct. 21, 2019

Test Date: Nov. 05 ~ Nov. 19, 2019

Issued Date: Nov. 26, 2019

Applicant: Polycom Inc.

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

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA191021C11	Original release	Nov. 26, 2019

1 Certificate of Conformity

Product: Poly Studio X50

Brand: Poly

Test Model: P017

Sample Status: Engineering sample

Applicant: Polycom Inc.

Test Date: Nov. 05 ~ Nov. 19, 2019

Standards: FCC Part 2 (Section 2.1091)

References Test IEEE C95.3 -2002

Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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 : Celine Chou , **Date:** Nov. 26, 2019
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Nov. 26, 2019
Bruce Chen / Senior Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN					
2412-2462	15.86	5.61	20	0.028	1
5180-5240	17.04	6.01	20	0.040	1
5260-5320	17.46	6.01	20	0.044	1
5500-5720	17.89	6.01	20	0.049	1
5745-5825	16.18	6.01	20	0.033	1
BT LE					
2402-2480	2.67	2.60	20	0.001	1
BT EDR					
2402-2480	7.32	2.60	20	0.002	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 2.4GHz & 5GHz & BT technology cannot transmit at same time.

2.4GHz: Directional gain = 2.6dBi + 10log(2) = 5.61dBi

5GHz: Directional gain = 3dBi + 10log(2) = 6.01dBi

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