

RF Exposure Report

Report No.: SA200113C08

FCC ID: M72-TC60FR

Test Model: Trio C60

Received Date: Jan. 13, 2020

Test Date: Jan. 13 ~ Feb. 13, 2020

Issued Date: Feb. 15, 2020

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
SA200113C08	Original release	Feb. 15, 2020

1 Certificate of Conformity

Product: Conference Telephone

Brand:  poly

Test Model: Trio C60

Sample Status: Engineering sample

Applicant: Polycom Inc.

Test Date: Jan. 13 ~ Feb. 13, 2020

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.3 -2002

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:

Feb. 15, 2020

Approved by :



Bruce Chen / Senior Project Engineer

Date:

Feb. 15, 2020

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

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

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

For WLAN 2.4GHz / WLAN 5GH / BT:

Frequency Band (MHz)	Max Average Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN					
2412-2462	12.88	4.90	20	0.012	1
5180-5240	14.23	5.24	20	0.018	1
5260-5320	13.69	5.24	20	0.016	1
5500-5720	12.65	5.24	20	0.012	1
5745-5825	12.57	5.24	20	0.012	1
BT LE					
2402-2480	1.39	1.89	20	0.0004	1
BT EDR					
2402-2480	5.65	1.89	20	0.001	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For DECT:

Frequency Band (MHz)	Max Average Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
1921.536-1928.448	16.33	1.8	20	0.013	1

* WLAN 2.4GHz & WLAN 5GHz technology cannot transmit at same time, but WLAN & BT & DECT module technology can transmit at same time.

2.4GHz: Directional gain = $1.89\text{dBi} + 10\log(2) = 4.90\text{dBi}$

5GHz: Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi}$

DECT antenna gain = 1.8dBi

Conclusion:

The formula of calculated the MPE is:

$\text{CPD1} / \text{LPD1} + \text{CPD2} / \text{LPD2} + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

1. WLAN 2.4GHz + BT + DECT = $0.012/1 + 0.001/1 + 0.013/1 = 0.026$

2. WLAN 5GHz + BT + DECT = $0.018/1 + 0.001/1 + 0.013/1 = 0.032$

Therefore, the maximum calculations of above situations are less than the "1" limit.

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