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## RADIO TEST REPORT

Report No: STS2002186H02

Issued for

**Polycom Inc**

6001 America Center Drive, San Jose, CA. 95002, USA

<b>Product Name:</b>	Trio C60
<b>Brand Name:</b>	Poly
<b>Model Name:</b>	Trio C60
<b>Series Model:</b>	N/A
<b>FCC ID:</b>	M72-TC60FR
<b>Test Standard:</b>	FCC 47CFR§2.1091

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## Test Report Certification

**Applicant's name .....** : **Polycom Inc**

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

**Manufacture's Name .....** : **Polycom Inc**

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

### Product description

Product Name..... : Trio C60

Brand Name ..... : Poly

Model Name ..... : Trio C60

Series Model..... : N/A

**Standards .....** : FCC 47CFR§2.1091

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**Date of Test .....**:

Date (s) of performance of tests .....: 27 Feb. 2020 -30 Mar. 2020

Date of Issue.....: 30 Mar. 2020

Test Result.....: **Pass**

Testing Engineer : 

( Chris chen )

Technical Manager : 

( Sean she )



Authorized Signatory : 

(Vita Li)



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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 Mar. 2020	STS2002186H02	ALL	Initial Issue





## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Trio C60
Brand Name	Poly
Model Name	Trio C60
Series Model	N/A
Product Differences	N/A
Hardware version number	N/A
Software version number	N/A
EUT Frequency Ranges	1921.536-1928.448MHz
EUT power:	16.33 dBm
Type of Modulations	GFSK
Number of Channels	5 CH 1921.536MHz, 1923.264MHz, 1924.992MHz, 1926.720MHz, 1928.448MHz
Antenna Type	Internal Antenna
Antenna Gain	Ant A: 1.8dBi Ant B: 1.8dBi
Adapter Information:	Input: AC 100-240V 50/60Hz 0.67A Output: DC 55V 0.6A
Extreme Temp. Tolerance:	0°C to 40°C

### 1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, Heping Shequ,

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



## 2. FCC 47CFR§2.1091 REQUIREMENT

### 2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

### 2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

#### Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friis Formula

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

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

### 2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

### 2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



## 2.4TEST RESULT

Turn up

Mode	Detector	Turn up
1921.536 MHz	PEAK	16±1dBm
1924.992 MHz	PEAK	16±1dBm
1928.448 MHz	PEAK	16±1dBm

## ANT Gain (G)

Antenna gain: 1.8dBi (gain of antenna in linear scale=1.51)

Protocol	ANT Gain(gain of antenna in linear scale)	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Output Power to Antenna (mW)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
GFSK	1.51	1928.448	16.33	42.9500	0.01290	1

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*