

Project No: Report No.:

TM-2201000472P TMWK2201000420KR



FCC ID: LDKHS7222538 Page 1 / 11 Rev.: 00

SAR Exclusion Evaluation Report

FCC 47 CFR § 2.1093 IEEE Std 1528-2013

For

Cisco Headset 720

Model: HS-WL-722, HS-WL-721

Trade Name: Cisco

Issued to
Cisco Systems, Inc.
125 West Tasman Drive San Jose, CA 95134-1706 United States

Prepared by

Compliance Certification Services Inc.
Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)

Issue Date: July 14, 2022

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 14, 2022	Initial Issue	ALL	Doris Chu



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1 Attestation of Test Results

Applicant Name	Cisco Systems Inc 125 West Tasman Drive San Jose, CA 95134-1706 United States	
Model Name	HS-WL-722, HS-WL-721	
Applicable Standards	FCC 47 CFR § 2.1093	
	Published RF exposure KDB procedures	
	IEEE Std 1528-2013	
Receive EUT Date:	January 25, 2022	
Date Tested	May 17, 2022	
Test Results	EXEMPT	

Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainy. All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

requirements as documented in this report.					
Approved & Released By:	Tested by:				
Komil Tson	Sky Thou				
Kevin Tsai	Sky Zhou				
Deputy Manager	Asst. Section Manager				
Compliance Certification Services Inc.	Compliance Certification Services Inc.				



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2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, the following FCC Published RF exposure KDB procedures:

- o 447498 D01 General RF Exposure Guidance v07
- o 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- o 865664 D02 RF Exposure Reporting v01r02



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3 Device Under Test (DUT) Information

3.1 DUT Description

3.1 DO I Description					
Applicant Name	Cisco Systems Inc				
Applicant Address	125 West Tasman Drive San Jose, CA 95134-1706 United States				
Manufacturer Name Cisco Systems, Inc.					
Manufacturer Address	125 West Tasman Drive San Jose, CA 95134-1706 United States				
Product	Cisco Headset 720				
Trade Name	Cisco				
Model No.	HS-WL-722, HS-WL-721				
Model Discrepancy	Basic model HS-WL-722: Wireless Dual On-Ear Headset				
	Multi model HS-W-721: Wireless Mono On-Ear Headset (One Speaker connected only)				
	Difference in earphone number and accompany circuit board, electronic components, wire and indicator LED only for the extra earphone.				
	□ Normal Battery Cover				
	□ Normal Battery Cover with NFC				
Back Cover	☐ Wireless Charger Battery Cover				
	☐ Wireless Charger Battery Cover with NFC				
	☑ The Back Cover is not removable.				
	☑ Standard – Lithium-ion battery, Rating 3.7Vdc, 1.85Wh				
Battery Options	□ Extended (large capacity)				
	☐ The rechargeable battery is not user accessible.				
Hardware Version	HDT606-MAIN-R2-20211015				
Software Version	1-8-m-168				
Sample Stage	PVT				



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3.2 Wireless Technologies

Stereo

Wireless technologies	Frequency bands	Peak Antenna Gain (dBi)	Operating mode	Duty Cycle		
Bluetooth	2.4 GHz	5.01 dBi		77.6%		
Antonio	Brand Name	Merry				
Antenna	Туре	Monopole A	ntenna			
Specification	Parts Number	09D4000000B				

Mono

Wireless technologies	Frequency bands	Peak Antenna Gain (dBi)	Operating mode	Duty Cycle			
Bluetooth	2.4 GHz	5.01 dBi		77.6%			
	Brand Name	Merry					
Antenna	Type		Monopole Antenna				
Specification	Parts Number	09D4000000B					

Notes:

^{1.} Duty cycle for BT is referenced from BT reports.



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4 RF Exposure Conditions (Test Configurations)

Refer to Appendixes 1 for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

4.1 Standalone SAR Test Exclusion Considerations

Since the Dedicated Host Approach is applied, the SAR-based exemption in Appendix B of KDB 447498 is applied together with KDB 616217 § 4.3 to determine the minimum test separation distance:

- When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- When the separation distance from the antenna to an adjacent edge is > 5 mm, the actual antenna-to-edge separation distance is applied to determine SAR test exclusion.

SAR Test Exclusion Calculations for 1.5 GHz $\leq f \leq$ 6 GHz

Tx Interface	Frequency (GHz)	Output dBm	Power mW	Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (m W)	Separation Distances (cm)	P _{th} (mW)	Exemption result
	$1.5 \text{GHz} \leq f \leq 6 \text{GHz}$								
					Stereo_Head				
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	2	38	-EXEMPT-
	Stereo Limb								
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	0.5	7	-EXEMPT-
	Mono_Head								
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	2	38	-EXEMPT-
	Mono_Limb								
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	0.5	7	-EXEMPT-



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4.2 Required Test ConfigurationsThe table below identifies the standalone test configurations required for this device according to the findings in Section 6.1:

Test Configurations Stereo_Head		Stereo_Limb	Mono_Head	Mono_Limb		
$1.5 \text{GHz} \le f \le 6 \text{GHz}$						
Bluetooth	No	No	No	No		

Note(s):

Yes = Testing is required.

No = Testing is not required.



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5 Conducted Output Power Measurements

5.1 Bluetooth.

Average Power Measured Results

Mode	Ch#	Freq. (MHz)	Meas. Avg Pwr (dBm)	Meas. Avg Pwr (mW)	Tune-up Limit
	0	2402	3.96	2.49	
GFSK	39	2441	3.99	2.51	4.00
	78	2480	3.95	2.48	
	0	2402	3.85	2.43	
EDR, π/4 DQPSK	39	2441	3.84	2.42	4.00
II/4 DQI SIK	78	2480	3.86	2.43	
555	0	2402	3.95	2.48	
EDR, 8-DPSK	39	2441	3.97	2.49	4.00
0-DF3K	78	2480	3.98	2.50	
	0	2402	3.98	2.50	
LE, GFSK	19	2440	3.97	2.49	4.00
J. Si Sik	39	2480	3.95	2.48	



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6 Facilities

All measurement facilities used to collect the measurement data are located at \boxtimes No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

7 Appendixes

Exhibit	Content
1	SAR Setup Photos

END OF REPORT