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TEST REPORT

Application No.:	SHCR2309001863ME
FCC ID:	PQC-AIM
Applicant:	Philips Medical Systems North America Co.
Address of Applicant:	222 Jacobs Street, Cambridge, Massachusetts 02141, United States
Manufacturer:	Philips Medical Systems
Address of Manufacturer:	3000 Minuteman Road Andover, MA 01810-1099 USA
Factory:	Philips North America LLC
Address of Factory:	1, 1001 Murry Ridge Lane, STE A, Murrysville PA 15668, USA
	2, 1003 Corporate Lane STE B, Export PA 15632, USA
Equipment Under Test (EUT	·):
EUT Name:	AIM
Model No.:	AIM-001
Trade Mark:	PHILIPS
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2023-09-07
Date of Test:	2023-10-07 to 2023-10-08
Date of Issue:	2023-10-30
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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	Revision Record					
Version Description Date Remark						
00	Original	2023-10-30	/			

Authorized for issue by:			
Tested By	Wade thang		
	Wade Zhang/Project Engineer	-	
Approved By	pour lam zhan	_	
	Parlam Zhan / Reviewer	-	



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2 **Test Summary**

Emission Part						
Item	Standard	Method	Requirement	Result		
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15,	ANSI C63.4:2014	15.109(a);Class B	Pass		
Radiated Emissions (Above 1GHz)	Subpart B	ANSI C63.4:2014	15.109(g);Class B	Pass		



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from USB Port
Test Voltage:	DC 5V
S/N:	CN62312014
Firmware Version:	10.0

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Wireless PIM	PHILIPS	WPIM-001	CN42111005
Laptop	LENOVO	L460	-

4.3 Measurement Uncertainty & Decision Rule Measurement Uncertainty:

No.	ltem	Measurement Uncertainty (<i>U</i> _{Lab})		
1	Conducted Emission	3.4dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)	
I	at mains port using AMN	2.9dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)	
2	Conducted Emission at mains port using VP	2.2dB (9kHz to 30MHz)	2.9dB (9kHz to 30MHz)	
3	Conducted Emission at telecommunication port using AAN	4.6dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)	
4	Radiated Power	3.4dB (30MHz to 300MHz)	4.5dB (30MHz to 300MHz)	
		5.7dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)	
5	Radiated emission	4.8dB (1GHz-6GHz)	5.2dB (1GHz-6GHz)	
		5.0dB (6GHz-18GHz)	5.5dB (6GHz-18GHz)	
6	Radiated disturbance (disturbance current in a LLAS)	2.6dB (9kHz to 30MHz)	3.3dB (9kHz to 30MHz)	

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Decision Rule:

• CISPR 16-4-2 for emission measurements is as below described.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

 U_{LAB} less than U_{CISPR} , therefore:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted. Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List 5

Radiated Emissions (30MHz-1GHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2022/12/20	2023/12/19		
EMI test receiver	Rohde & Schwarz	ESR7	SHEM201-1	2023/8/01	2024/7/31		
CONTROLLER	INNCO	CO2000	SHEM047-1	N/A	N/A		
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A		
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A		
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2023/9/3	2025/9/2		
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM202-1	2023/4/17	2025/4/16		
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023/5/6	2026/5/5		
Pre-amplifier	HP	8447D	SHEM236-1	2022/12/22	2023/12/21		
Pre-amplifier	HP	8447D	SHEM143-1	2022/12/20	2023/12/19		
RE test Cable	/	/	SHEM217-2	2023/5/9	2024/5/8		
Test Software	ESE	e3	Version: 6.191211	N/A	N/A		
Semi/Fully Anechoic	TIANDE	9*6*6M	SHEM198-1	2021/05/27	2024/05/26		

Radiated Emissions (Above 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2022/12/20	2023/12/19	
EMI test receiver	Rohde & Schwarz	ESR7	SHEM201-1	2023/8/01	2024/7/31	
CONTROLLER	INNCO	CO2000	SHEM047-1	N/A	N/A	
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A	
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A	
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2023/9/3	2025/9/2	
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM202-1	2023/4/17	2025/4/16	
Horn Antenna (1- 18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2023/9/3	2025/9/2	
Pre-amplifier (1-18GHz)	Schwarzbeck	SCU-F0118- G40-BZ4- CSS(F)	SHEM050-2	2022/12/20	2023/12/19	
Horn Antenna (1- 18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024/8/10	
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023/5/6	2026/5/5	
RE test Cable	/	/	SHEM217-2	2023/5/9	2024/5/8	
Test Software	ESE	e3	Version: 6.191211	N/A	N/A	
Semi/Fully Anechoic	TIANDE	9*6*6M	SHEM198-1	2021/05/27	2024/05/26	



General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2021-01-22	2024-01-21				
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042- 9~10	2022-12-31	2023-12-30				
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-5	2023-07-23	2024-07-22				
Digital Temperature& humidity recorder	Jianda Renke	RS-WS-N01- 6J	SHEM247-1~8	2023-01-13	2024-01-12				
Digital Multimeter	FLUKE	17B+	SHEM271-1	2023-07-19	2024-07-18				
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A				
Multi-purpose tong tester	FLUKE	317	SHEM001-2	2022-11-14	2023-11-13				



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

	· · ·
Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Limit:	
	Class B
Test Distance:	3m
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBµV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz
	Class B

Class B
10m
29.5(dBµV/m) quasi-peak
33.1(dBμV/m) quasi-peak
35.6(dBμV/m) quasi-peak
43.5(dBµV/m) quasi-peak
Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

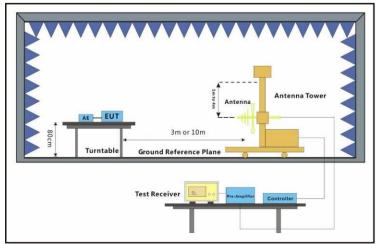
6.1.1 E.U.T. Operation

Operating Environment:									
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure: 1010 m	bar		

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Working mode_Keep the EUT normally working continuously.

6.1.3 Test Setup Diagram





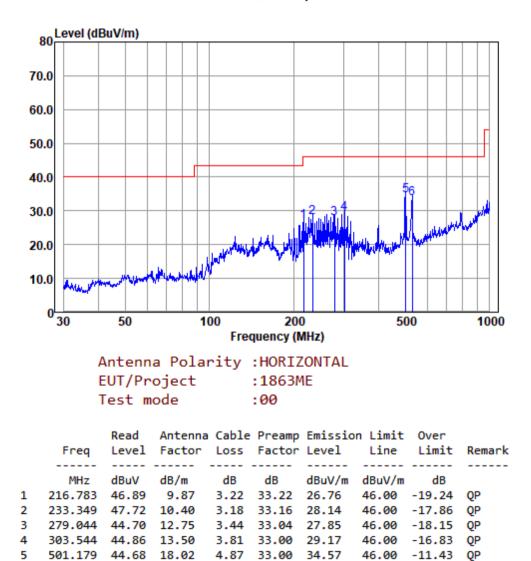
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6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

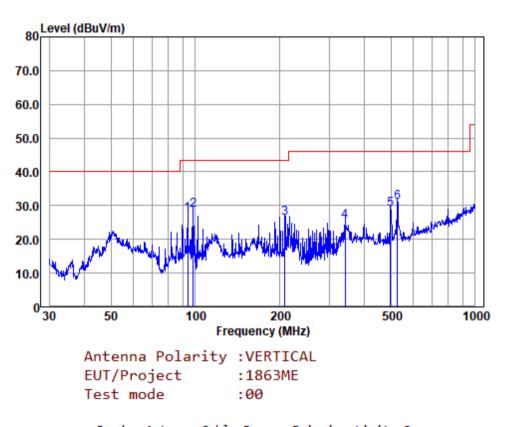


Test Mode: 00; Polarity: Horizontal

6 528.246 42.73 18.46 5.33 33.00 33.52 46.00 -12.48 QP Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 00; Polarity: Vertical

		Read	Antenna	Cable	Preamp	Emissior	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	93.768	51.05	8.10	1.85	33.60	27.40	43.50	-16.10	QP
2	98.142	51.36	9.00	1.85	33.60	28.61	43.50	-14.89	QP
3	208.580	46.60	9.83	3.18	33.26	26.35	43.50	-17.15	QP
4	341.979	39.70	14.60	4.13	33.00	25.43	46.00	-20.57	QP
5	497.677	39.16	17.96	4.74	33.00	28.86	46.00	-17.14	QP
6	526.397	40.37	18.42	5.32	33.00	31.11	46.00	-14.89	QP
Note:Emission Level=Read Level+Antenna Factor+Cable 1								reamp Fa	ctor



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6.2 Radiated Emissions (Above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014

Limit:

	Class B
Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

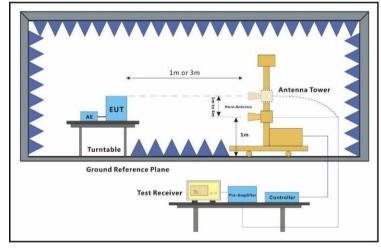
6.2.1 E.U.T. Operation

Operating Environment:								
Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure: 1010 mbar		

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Working mode_Keep the EUT normally working continuously.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

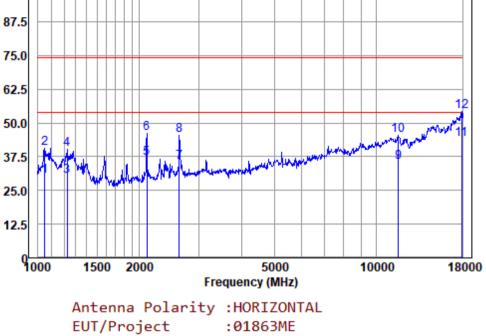


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100 Level (dBuV/m)

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Test Mode: 00; Polarity: Horizontal



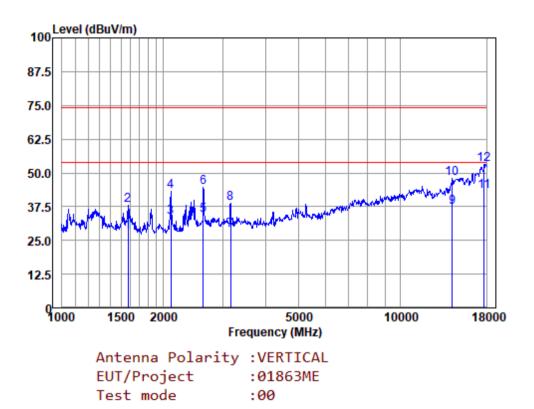
Test mode

:00

		Read				Emission			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1053.404	45.21	22.63	3.57	41.20	30.21	54.00	-23.79	Average
2	1053.404	55.72	22.63	3.57	41.20	40.72	74.00	-33.28	Peak
3	1224.247	44.23	23.26	3.86	41.20	30.15	54.00	-23.85	Average
4	1224.247	54.27	23.26	3.86	41.20	40.19	74.00	-33.81	Peak
5	2107.950	47.89	25.31	5.13	41.33	37.00	54.00	-17.00	Average
6	2107.950	57.06	25.31	5.13	41.33	46.17	74.00	-27.83	Peak
7	2625.796	45.45	26.60	5.77	42.30	35.52	54.00	-18.48	Average
8	2625.796	55.19	26.60	5.77	42.30	45.26	74.00	-28.74	Peak
9	11600.350	26.85	39.16	11.88	42.58	35.31	54.00	-18.69	Average
10	11600.350	36.94	39.16	11.88	42.58	45.40	74.00	-28.60	Peak
11	17793.090	26.36	43.85	14.34	40.71	43.84	54.00	-10.16	Average
12	17793.090	36.79	43.85	14.34	40.71	54.27	74.00	-19.73	Peak
Note:	Emission L	evel=Rea	ad Level	+Anten	na Facto	or+Cable	loss-Pr	reamp Fac	ctor



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Test Mode: 00; Polarity: Vertical

		Read	Antenna	Cable	Preamp	Emission	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1574.265	41.44	23.45	4.40	41.20	28.09	54.00	-25.91	Average
2	1574.265	51.39	23.45	4.40	41.20	38.04	74.00	-35.96	Peak
3	2107.950	44.32	25.31	5.13	41.33	33.43	54.00	-20.57	Average
4	2107.950	54.03	25.31	5.13	41.33	43.14	74.00	-30.86	Peak
5	2625.796	44.28	26.60	5.77	42.30	34.35	54.00	-19.65	Average
6	2625.796	54.44	26.60	5.77	42.30	44.51	74.00	-29.49	Peak
7	3159.355	37.03	27.64	6.39	42.30	28.76	54.00	-25.24	Average
8	3159.355	47.08	27.64	6.39	42.30	38.81	74.00	-35.19	Peak
9	14201.690	26.32	40.70	13.09	42.66	37.45	54.00	-16.55	Average
10	14201.690	36.83	40.70	13.09	42.66	47.96	74.00	-26.04	Peak
11	17639.470	26.15	43.53	14.31	40.82	43.17	54.00	-10.83	Average
12	17639.470	36.16	43.53	14.31	40.82	53.18	74.00	-20.82	Peak
Note:	Emission L	evel=Rea	ad Level	+Anten	na Facto	or+Cable	loss-Pr	eamp Fa	ctor



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2309001863ME

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2309001864ME

- End of the Report -