

保守点検報告書

2024年 第2回

顧客名 独立行政法人国立病院機構
四国がんセンター

装置名 Achieva 1.5T Pulsar

設置場所 MRI室

点検実施日 2024年7月17日

Case番号 0122891229

株式会社フィリップス・ジャパン

点検項目の説明

製品グループ Achieva 1.5Tシリーズ

検査項目

Chapter: Configuration (All Visits)

システム構成(全訪問回)

Chapter: Visit number (All Visits)

訪問回数(全訪問回)

Chapter: Liquid Cooling LCC2B/2BB (All)

水冷システム点検:LCC2B/2BB(全訪問回)

Chapter: Liquid Cooling LCC2/2A (All)

水冷システム点検:LCC2/2A(全訪問回)

Chapter: Liquid cooling LCC2B/2BB (1, 2, 4)

水冷システム点検:LCC2B/2BB(訪問回数1、2、4)

Chapter: Liquid cooling LCC2A (1, 2, 4)

水冷システム点検:LCC2(訪問回数1、2、4)

Chapter: Liquid Cooling LCC2B/2BB (1, 3)

水冷システム点検:LCC2B/2BB(訪問回数1、3)

Chapter: Liquid Cooling (1)

- ・不凍液濃度確認
- ・ストレーナー清掃

Chapter: Liquid Cooling LCC2B/2BB (3)

冷却水経路洗浄:LCC2B/2BB(訪問回数3)

Chapter: Liquid Cooling LCC2A (3)

冷却水経路洗浄:LCC2A(訪問回数3)

Chapter: Liquid Cooling LCC2 (3)

冷却水経路洗浄:LCC2(訪問回数3)

Chapter: Liquid Cooling LCCx (1, 3)

ホースの水漏れ確認:LCCx(訪問回数1、3)

Chapter: Liquid Cooling LCCx (1)

冷却水経路洗浄:LCCx(訪問回数1)

Chapter: Liquid Cooling Neslab (All)

冷却水レベル確認:Neslab(全訪問回)

Chapter: Liquid Cooling Neslab (1, 3)

- ホースの水漏れ確認:Neslab(訪問回数1、3)
- 安全機構動作確認:Neslab(訪問回数1、3)

Chapter: Liquid Cooling Eaton Williams (All)

冷却水レベル確認:Eaton Williams(全訪問回)

Chapter: Liquid Cooling Eaton Williams (1, 3)

- ホースの水漏れ確認:Eaton Williams(訪問回数1、3)
- 安全機構動作確認:Eaton Williams(訪問回数1、3)

Chapter: Liquid Cooling Eaton Williams (1)

不凍液濃度確認

Chapter: Magnet system (All)

安全性確認(全訪問回)

Chapter: Magnet system (1, 3)

ヘリウム排気管排水穴確認(訪問回数1、3)

Chapter: Magnet system (2, 4)

ヘリウム排気管設置状況確認(訪問回数2、4)

Chapter: Magnet system (3)

ヘリウム排気管取付確認(訪問回数3)

Chapter: Magnet system (4)

緊急磁場消失ユニット機能確認(訪問回数4)

Chapter: Operator Console & Viewing (All)

コンソール機能確認(全訪問回)

Chapter: Operator Console & Viewing (1, 3)

天井取付具点検:Interventionalシステム(訪問回数1、3)

Chapter: Gradient System (1, 3)

グラディエントシステム点検(訪問回数1、3)

Chapter: Gradient System (2, 4)

グラディエントシステム点検(訪問回数2、4)

Chapter: Software (All)

ソフトウェア点検(全訪問回)

Chapter: Software (2,4)

ソフトウェア点検(訪問回数2、4)

Chapter: Software (2)

リモート接続確認(訪問回数2)

Chapter: Workflow (All)

担当者への面談

Chapter: System Level Checks (Visits 1,3)

システムレベル点検(訪問回数1、3)

点検項目の説明

製品グループ Achieva 1.5Tシリーズ

検査項目

Chapter: System Level Checks (Visits 2,4)	Chapter: PM end
システムレベル点検(訪問回数2、4)	最終確認
Chapter: System Level Checks (Visits 2)	
システムレベル点検(訪問回数2)	
Chapter: 2 System Level Checks (Visits 4)	
システムレベル点検(訪問回数4)	
Chapter: Patient support MT (All)	
寝台システム点検:MT(全訪問回)	
Chapter: Patient support MT (1, 3)	
寝台システム点検:MT(訪問回数1、3)	
Chapter: System Meas. & Adjustments (All)	
システム測定及び調整(全訪問回)	
Chapter: System Meas. & Adjustments (2, 4)	
システム測定及び調整(訪問回数2、4)	
Chapter: System Meas. & Adjustments (4)	
スパイクノイズ確認(訪問回数4)	
Chapter: Earth bonding	
アース導通測定	
Chapter: Earth bonding Exam Room	
アース導通測定:検査室	
Chapter: Earth bonding Tech Room	
アース導通測定:機械室	
Chapter: Earth Leakage Current	
漏れ電流測定	
Chapter: Refrigerator system (All)	
冷凍機システム点検(全訪問回)	
Chapter: Refrigerator system (1, 3)	
冷凍機システム点検(訪問回数1、3)	
Chapter: SAFETY (All)	
静電気対策	
Chapter: One time tasks (all)	
LEDポアライトへの交換	

Ship To:

独立行政法人国立病院機構 四国がんセンター
 南梅本町甲160
 松山市
 Japan

Test and Verification Report

Case Number: 0122891229

Work Order: WO-09735022

WORK DETAILS

Engineer Name: YUSUKE SADAOKA

Event Type: Predictive / Preventative Maintenance

Device Status: Pass

Service Activity: Additional Visit

EQUIPMENT DETAILS

Product Name: Achieva 1.5T

Serial Number: 32625

Product Number: 781296

Installed Product: 51640158

UDI:

	Min	Max	UoM	Measurement	Result	Comments
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PM section 4. Safety

4. Safety

Prevent electro static discharge					PASS	
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PM section 6. Workflow

Workflow

Interview the representative of the site					YES	
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PM section 7. System level

System level

Do PIQT (Remote / On-site)					PASS	
Check system parts visually					PASS	
Check the dust filter					PASS	
Check the dust filter of the patient ventilation					PASS	
Disable alerts					PASS	
Check the RF enclosure					PASS	
Check the RF coils for damage					PASS	
Relative humidity Examination room	40	70	%	65.4	Pass	
Relative humidity Technical room	30	70	%	54.5	Pass	
Temperature Examination room (R3 or upgraded from R3)	20	24	°C	22.3	Pass	
Temperature Technical room	15	24	°C	21.4	Pass	
Check the version of the SPT spec file (Remote / On-site)					PASS	

	Min	Max	UoM	Measurement	Result	Comments
PM section 7. System level						
System level						
Compare and download the SPT spec file					PASS	
PM section 10. Liquid Cooling						
Liquid cooling						
Check the flow in the gradient coil circuit	18	22	l/min	22	Pass	
Check the flow in the gradient amplifier	30	45	l/min	34	Pass	
Liquid cooling [LCC2]						
Check the hoses with liquid cooling for leaks					PASS	
PM section 11. Refrigerator system						
Refrigerator system						
Check the dynamic pressure of the compressor					PASS	
PM section 12. Magnet system						
Magnet system						
Check the labels and covers of the ERDU buttons					PASS	
Check the service history of the coldhead [10K]					≤ 36 Months Ago	
Record the last date coldhead service was done					Jan 11, 2023	
PM section 13. Patient support						
Patient support [MT]						
Check the stop function on operator console					PASS	
Check the stop scan buttons on the magnet					PASS	
Check the emergency stop circuit					PASS	
Check the stop function of finger protection plate					PASS	
Check the patient alarm					PASS	
Check the patient comfort lights					PASS	
PM section 14. System Meas. & Adjustments						
System Meas. & Adjustments						
Do a check with the HealthViewer application					Not applicable (< R5.3.1 and/or CDAS)	
System measurements and adjustments						
Use the analyzer					PASS	

Min Max UoM Measurement Result Comments

PM section 14. System Meas. & Adjustments

PIQT

Do PIQT	PASS
Generate a report with PIQT results	PASS
Mark the PIQT scans as reference specifications	PASS

PM section 15. Operator Console & Viewing

Operator Console & Viewing (All)

Clean the mouse, keyboard, monitor of host and EWS	PASS
Check the audio communications	PASS

PM section 16. Software

Software

Check and update the EAS software (e-Alert)	PASS
Clean up disks	PASS
Defragment the hard disks	PASS
Export the configuration	PASS

PM section 17. FCOs and corrective maintenance

FCOs and corrective maintenance

Implement FCOs and corrective maintenance	N/A
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Philips Representative Signature:



Engineer Name: YUSUKE SADAOKA

Date: Jul 17, 2024



ヘリウムレベル推移表(%)

