

QUALITY ASSURANCE REPORT

SIEMENS Amira 1.5 T

ITEM NVI-C00547



NOVO IMAGING APS | SIEMENS AMIRA 1.5 T

MANUFACTURER

Siemens

MODALITY

MRI

SYSTEM YOM

2019

CONFIGURATION

16-channel

QA overview

This report consolidates the recorded system configuration, magnet and cryogenic information, workstation details, accessories, RF coil status, phantoms and QA test results for the Siemens Amira 1.5 T.

System and magnet configuration

System identification, magnet condition and recorded operating data

SYSTEM INFORMATION

Manufacturer	Siemens	Model	Amira 1.5 T	Serial no.	174102
System YOM	2019	Modality	MR	No. of channels	16
Gradient type	XF	No. of quenches	0	Fixed or mobile?	Mobile
Upgraded system	No	Year of upgrade	N/A	Base plate	Not included

MAGNET INFORMATION

Magnet type	AX93	Magnet model no.	10835951
Magnet serial no.	932181	Magnet YOM	2019
Current helium level	375 liters	Magnet pressure	15.3 psiA
Shield temperature	49.3 K (50K LINK)	QA	Recorded

Magnet status note

The source QA record states a helium quantity of 375 liters, pressure of 15.3 psiA and shield temperature of 49.3 K.

Cooling, RF and workstation components

Cryogenic system, gradient/RF chain, table and host workstation

COOLING SYSTEM INFORMATION

Compressor / cryo cooler	Sumitomo F-70H	Compressor part no.	267046D23L
Compressor serial no.	SC319385K	Compressor YOM	2019
Running time	48,924	Pressure level	21 Bar
Last adsorber maintenance	Unknown	Coldhead model no.	RDK-408L3
Coldhead part no.	11P10613748	Coldhead serial no.	35L19D08C
Coldhead YOM	2019	Coldhead temperature	4 K

GRADIENT, RF, TABLE AND WORKSTATION

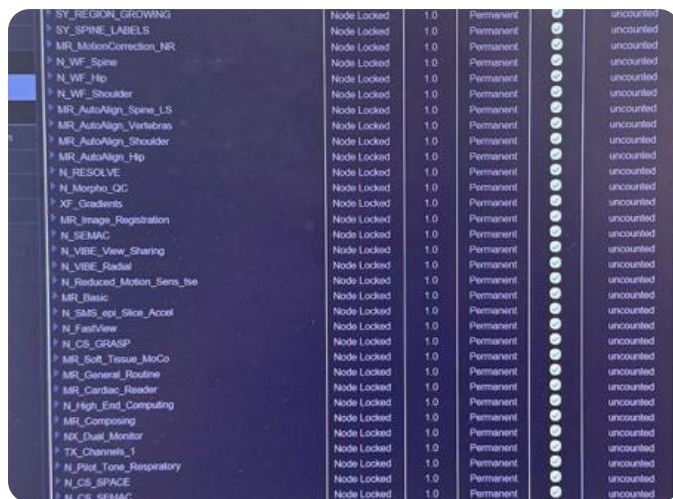
Gradient coil	Grad coil KPL 012	Gradient coil part no.	10840303
Body RF transmit coil	11282141 from software	RF identifier	SN 1023
Table model no.	Not specified	Table serial no.	Not specified
Table YOM	Not specified	Extra trolley	No
Positioning pads	Included	Workstation model	Z440 - 11062060
Workstation serial no.	1537	Software version	VA12S

Software, accessories and recorded condition

Software evidence and maintenance information

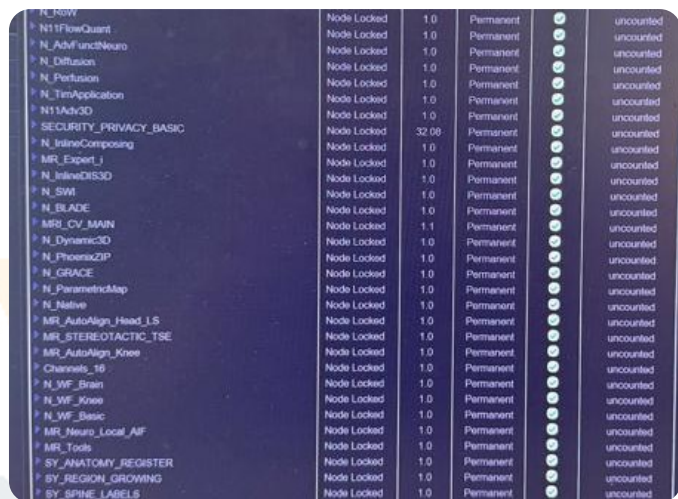
WORKSTATION AND SOFTWARE EVIDENCE

Workstation model	Z440 - 11062060	Workstation serial no.	1537
Software version	VA12S	Software options	Recorded in source screenshots



SY_REGION_GROWING	Node Locked	1.0	Permanent	uncounted
SY_SPINE_LABELS	Node Locked	1.0	Permanent	uncounted
MR_MotionCorrection_MR	Node Locked	1.0	Permanent	uncounted
N_WF_Spine	Node Locked	1.0	Permanent	uncounted
N_WF_Hip	Node Locked	1.0	Permanent	uncounted
N_WF_Shoulder	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Spine_LS	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Vertebras	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Shoulder	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Hip	Node Locked	1.0	Permanent	uncounted
N_RESOLVE	Node Locked	1.0	Permanent	uncounted
N_Morpho_QC	Node Locked	1.0	Permanent	uncounted
XF_Gradients	Node Locked	1.0	Permanent	uncounted
MR_Image_Registration	Node Locked	1.0	Permanent	uncounted
N_SEMAC	Node Locked	1.0	Permanent	uncounted
N_VIBE_View_Sharing	Node Locked	1.0	Permanent	uncounted
N_VIBE_Radial	Node Locked	1.0	Permanent	uncounted
N_Reduced_Motion_Sens_tse	Node Locked	1.0	Permanent	uncounted
MR_Basic	Node Locked	1.0	Permanent	uncounted
N_SMS_esp_Slice_Accel	Node Locked	1.0	Permanent	uncounted
N_FastView	Node Locked	1.0	Permanent	uncounted
N_CS_GRASP	Node Locked	1.0	Permanent	uncounted
MR_Soft_Tissue_MoCo	Node Locked	1.0	Permanent	uncounted
MR_General_Routine	Node Locked	1.0	Permanent	uncounted
MR_Cardiac_Reader	Node Locked	1.0	Permanent	uncounted
N_High_End_Computing	Node Locked	1.0	Permanent	uncounted
MR_Composing	Node Locked	1.0	Permanent	uncounted
NX_Dual_Monitor	Node Locked	1.0	Permanent	uncounted
TX_Channels_1	Node Locked	1.0	Permanent	uncounted
N_Plast_Tone_Respiratory	Node Locked	1.0	Permanent	uncounted
N_CS_SPACE	Node Locked	1.0	Permanent	uncounted
N_CS_8IMAG	Node Locked	1.0	Permanent	uncounted

Software options screen - view 1



N_Row	Node Locked	1.0	Permanent	uncounted
N1FlowQuant	Node Locked	1.0	Permanent	uncounted
N_AdvFuncNeuro	Node Locked	1.0	Permanent	uncounted
N_Diffusion	Node Locked	1.0	Permanent	uncounted
N_Pedfusion	Node Locked	1.0	Permanent	uncounted
N_TimApplication	Node Locked	1.0	Permanent	uncounted
N1Adv3D	Node Locked	1.0	Permanent	uncounted
SECURITY_PRIVACY_BASIC	Node Locked	32.08	Permanent	uncounted
N_InlineComposing	Node Locked	1.0	Permanent	uncounted
MR_Expert_I	Node Locked	1.0	Permanent	uncounted
N_InlineDIS3D	Node Locked	1.0	Permanent	uncounted
N_SWI	Node Locked	1.0	Permanent	uncounted
N_BLADE	Node Locked	1.0	Permanent	uncounted
MR_CV_MAIN	Node Locked	1.1	Permanent	uncounted
N_Dynamic3D	Node Locked	1.0	Permanent	uncounted
N_PhenaxZIP	Node Locked	1.0	Permanent	uncounted
N_GRACE	Node Locked	1.0	Permanent	uncounted
N_ParametricMap	Node Locked	1.0	Permanent	uncounted
N_Native	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Head_LS	Node Locked	1.0	Permanent	uncounted
MR_STEREOTACTIC_TSE	Node Locked	1.0	Permanent	uncounted
MR_AutoAlign_Knee	Node Locked	1.0	Permanent	uncounted
Channels_16	Node Locked	1.0	Permanent	uncounted
N_WF_Brain	Node Locked	1.0	Permanent	uncounted
N_WF_Knee	Node Locked	1.0	Permanent	uncounted
N_WF_Basic	Node Locked	1.0	Permanent	uncounted
MR_Neuro_Local_AIF	Node Locked	1.0	Permanent	uncounted
MR_Tools	Node Locked	1.0	Permanent	uncounted
SY_ANATOMY_REGISTER	Node Locked	1.0	Permanent	uncounted
SY_REGION_GROWING	Node Locked	1.0	Permanent	uncounted
SY_SPINE_LABELS	Node Locked	1.0	Permanent	uncounted

Software options screen - view 2

ACCESSORIES AND MAINTENANCE

Software discs	Included	System operator manuals	Included
System logbook	Not present	Date of last PM	03 March 2026
Last QA	Performed during last PM	Functional condition	Functional

Recorded condition The source report records the system as functional following the last PM and QA.

RF coils and QA phantoms

Coil-specific QA results and phantom inventory

RF COILS AND QA TEST RESULTS

#	Coil	Model no.	Serial no.	YOM	QA result
1	Body 13 BioMatrix	11407255	1034	N/S	FAILED
2	Body 13 BioMatrix	11407255	1033	N/S	FAILED
3	Ultra Flex Large 18	1134335	1138	N/S	PASSED
4	Ultra Flex Small 18	1134334	1159	N/S	FAILED
5	Spine 18	10838408	4295	N/S	PASSED
6	Shoulder Shape 16	11292805	1819	N/S	PASSED
7	HeadNeck 16	10837356	3159	N/S	PASSED
8	FootAnkle 16	10500084	7411	N/S	PASSED

Coil QA summary

5 coils passed and 3 coils failed in the recorded coil QA results.

PHANTOMS

#	Model name	Model no.	Serial no.	Holder
1	Spherical D240	10496685	25899	Yes
2	Spherical D160	10496625	25665	Yes
3	Bottle 2	10496791	25879	Yes
4	Bottle 5300 ML	10606530	24193	Yes
5	Bottle 1900 ML	08624186	28802	Yes
6	Bottle 1900 ML	08624186	28803	Yes
7	Foot Ankle 3300 ML	10352483	22343	No
8	Wrist Hand 1100 ML	10500498	22621	No

Quality assurance testing - Part 1

37 tests passed; 1 test was recorded as N/A

37
PASSED

1
N/A

QA TEST RESULTS

#	Test performed	Result
1	System overall is clean	PASS
2	System shuts down normally without errors (performed by client)	PASS
3	System boots normally without errors (performed by client)	PASS
4	Any abnormal noise production by system parts	PASS
5	All system monitors, screens and displays function correctly	PASS
6	No fluid leaks	PASS
7	No signs of water leakage in the SEP cabinet	PASS
8	Inspect hydraulic cylinder for leaks / spindle for noise or loss of bearings	PASS
9	No system error LEDs lit	PASS
10	No damage to system covers, parts, cables, connectors etc.	PASS
11	No error or warning messages displayed	PASS
12	All motorized and manual system movements can be executed	PASS
13	No errors during embedded diagnostics	PASS
14	No adjustment values out of specification	PASS
15	All user interfaces, buttons and knobs function correctly	PASS
16	No mechanical damage to moving system parts	PASS
17	All system filters clean	PASS
18	All system cooling fans clean and operational	PASS
19	Tilt and/or shockwatch sensors not triggered	PASS

Quality assurance testing - Part 2

37 tests passed; 1 test was recorded as N/A

QA TEST RESULTS

#	Test performed	Result
20	Spike Check	PASS
21	Synthesizer Check	PASS
22	Stability Check	PASS
23	BC Power Losses Check	PASS
24	Eddy Current Compensation Check	PASS
25	Cross Term Compensation Check	PASS
26	Image Orientation Check	PASS
27	Phantom Shim Check	PASS
28	Gradient Regulator Check	PASS
29	Gradient Delay Check	PASS
30	Gradient Rise Time Check	PASS
31	BC Tuning Test	PASS
32	Feedback Loop Calibration Check	N/A
33	RX Gain Calibration Check	PASS
34	RF Verify	PASS
35	RF Noise Check	PASS
36	Gradient Sensitivity Check	PASS
37	BC Image Check	PASS
38	Dynamic Pulse Check	PASS

QA conclusion

The system QA table records 37 passed tests and one N/A result. Coil-specific QA results are reported separately on page 5.

END OF REPORT