



<b>QMQA-1010</b>	<b>QA_01</b>
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**APS Upgrade**

Date Measured: Thursday, February 17, 2022  
Surveyors: JARVIS  
Instrument s/n: 394890  
Software version: SA 2021.2.71490.1 ( x64 )  
Survey file: DA23\_USMN\_2\_M1\_TEST.xit64  
Report created: April 12, 2022  
Units of measure: meters, milliradians

**Module Assembly**

Q6	<a href="#">Q6 Production Magnet</a>	SQ648
M2	<a href="#">M2 Production Magnet</a>	DM249
Q7	<a href="#">Q7 Production Magnet</a>	DQ732

## Alignment Summary:

QA08	X(m)	Y(m)	Z(m)	Rx	Ry	Rz
QA08_AQ6_0	0.000005	0.000109	-0.000312	0.493	-0.018	0.070
QA08_AM2_V	0.000008	-0.000138	0.000564	0.026	-0.015	-0.024
QA08_AQ7_0	-0.000037	0.000052	-0.000424	-0.293	0.222	-0.063
NOTE:	Positive pitch/yaw/roll angles represent counter-clockwise rotations of the magnet around the X/Y/Z axes from the magnet axis defined during fiducialization, and do not necessarily represent the true deviations of the magnet axis from the beam axis.					