

BQD-001

BOOSTER MAGNET REPORT

Results			
Date	05/05/2016		
Hour	16:15:04		
Temperature [°C]	24.1		
Number of Measurements	17		
Main Coil Current [A]	(31.9724 ± 0.0005)		
Trim Coil Current [A]	(0 ± 0)		
Integrated Gradient [T]	(-5.29271 ± 0.00003) > E-1		
Magnet Center Offset X [μm] - (< ±160.0)	(-3.1 ± 0.2)		
Magnet Center Offset Y [μm] - (< ±160.0)	(-25.9 ± 0.4)		
Roll [mrad] - (< ±0.8)	(-2.6 ± 0.2) x E-1		
Electric Parameters			
Indutance [mH]	3.728		
Voltage [V]	0.2797		
Resistance [m Ω]	27.97		
Main Coil Number of Turns	27.5		

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-0.006 l -0.0	175 -C	0.0125	-0.0	075	-0.00)25 (0.0025	0.00	075	0.01	25	0.0

n	Normalized Normal Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=17.5 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.75 ± 0.09) x E-4	(-1.48 ± 0.02) x E-3
2 (quadrupole)	(1.000000 ± 0.000006)	(-5.2 ± 0.1) x E-4
3 (sextupole)	(1.3 ± 0.1) x E-4	(-7.8 ± 0.2) x E-4
4	(-1.3 ± 0.1) x E-4	(1.7 ± 0.2) x E-4
5	(-5 ± 1) x E-5	(2 ± 1) x E-5
6	(-4.66 ± 0.02) x E-3	(1 ± 2) x E-5
7	(5 ± 1) x E-5	(4 ± 2) x E-5
8	(-5.6 ± 16.4) x E-6	(2.793 ± 1805.589) x E-8
9	(-4 ± 2) x E-5	(1 ± 1) x E-5
10	(1.18 ± 0.02) x E-3	(-2 ± 4) x E-5
11	(5 ± 2) x E-5	(5 ± 2) x E-5
12	(-2.2 ± 25.1) x E-6	(6 ± 3) x E-5
13	(-3 ± 3) x E-5	(2 ± 2) x E-5
14	(-1.0 ± 0.2) x E-4	(-3 ± 4) x E-5
15	(4 ± 3) x E-5	(3 ± 3) x E-5

