



BS-038

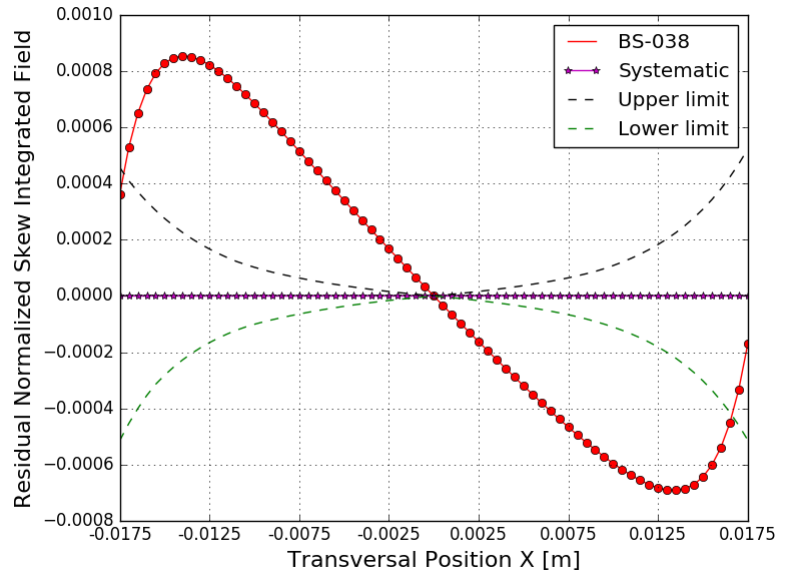
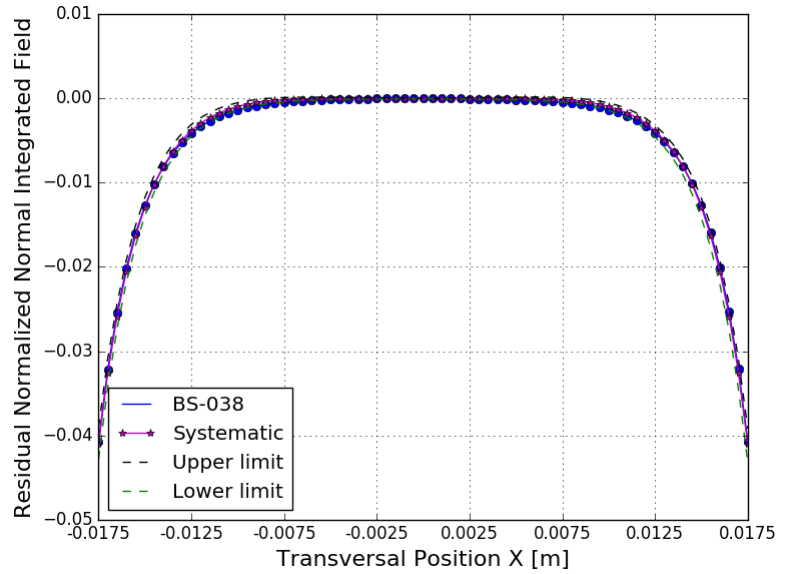
## BOOSTER MAGNET REPORT

### Results

Date	26/10/2016
Hour	09:44:52
Temperature [°C]	23.1
Number of Measurements	17
Main Coil Current [A]	(149.963 ± 0.002)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T.m]	(-21.4058 ± 0.0004)
Magnet Center Offset X [μm] - (< ±160.0)	(7.5 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-27.9 ± 0.3)
Roll [mrad] - (< ±0.8)	(1.94 ± 0.03) x E-1

### Electric Parameters

Inductance [mH]	0.108
Voltage [V]	--
Resistance [mΩ]	--
Main Coil Number of Turns	3



n	Normalized Normal Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-3.44 ± 0.02) x E-3	(-2.54 ± 0.02) x E-3
2 (quadrupole)	(8.6 ± 0.2) x E-4	(-3.19 ± 0.03) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(5.81 ± 0.10) x E-4
4	(-3 ± 2) x E-5	(-1.16 ± 0.03) x E-3
5	(-1.67 ± 0.02) x E-3	(1.2 ± 0.2) x E-4
6	(1.8 ± 0.2) x E-4	(-6.5 ± 22.6) x E-6
7	(-3.7 ± 0.3) x E-4	(7 ± 3) x E-5
8	(-4 ± 7) x E-5	(3.1 ± 0.7) x E-4
9	(-2.173 ± 0.004) x E-2	(-8 ± 3) x E-5
10	(-2 ± 6) x E-5	(5 ± 4) x E-5
11	(1.2 ± 0.4) x E-4	(-2 ± 7) x E-5
12	(-5 ± 4) x E-5	(4.4 ± 35.9) x E-6
13	(-1 ± 4) x E-5	(6.5 ± 37.7) x E-6
14	(-2 ± 5) x E-5	(5.3 ± 0.5) x E-4
15	(-1.708 ± 0.004) x E-2	(-7.4 ± 42.5) x E-6