Kyma Analysis Report

Date: 24. feb 2020 Name: 1991b Temperature: 23.0

Filename: 1991b-TPF-UFCM 20200224 Waves analysed : Bz81,Bx81,Izmes17,Ixmes17 Gap [mm] : 200

Phase [mm]: 4 Hall Z [mm]: -1 Peak Field Bx: 0.00806 T RMS Phase Error: 4.72 deg

Taper [mm]: 0 Hall X [mm]: 0 Delta Bx/Bx: 8.9 %

Peak Field Bz: 0.61493 T Radiation wavelength (lin. fit): 0.6 nm

Fund. En. (B2E) : 2156.8 eV = 0.6 nm

Peaks used: 103

Undulator Period: 22.00+-0.03 mm Delta Bz/Bz: 1.4 %

e-beam energy: 3 GeV Bx Taper : 3.564 G/m

Bz Taper: -15.603 G/m

Krms: 0.894

V Dipole: -6.1 G cm Iz(coil): -6.3 G cm Pred. C.C. currents V Quadrupole: -26.8 G Iz(BzC): -6.3 Gcm Iz(Bz): 23.3 G cm I1: -0.1937 A V Sextupole: 57.4 G/cm Ix(coil): 16.1 G cm I2: -1.0407 A

Ix(BxC): 16.1 Gcm Ix(Bx): 841.0 G cm

H Dipole: 17.6 G cm $IIx(sBx) : 0.0493 \text{ G m}^2$ I3: -0.2450 A H Quadrupole: -8.0 G IIz(sBz): -0.0422 G m^2 I4: -0.4208 A

H Sextupole: -119.3 G/cm BzTrj RMS dev.: 0.1 um BxTrj RMS dev.: 0.1 um

