## 1\_StandPlane

e=0.256 c=( -1694,2036 )=( -0.06,0.07 )\*Hnxy norm

e=0.000 c=( -0,-0 )=( -0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= 35(0.00) std= 12545(0.45)

The ellipse fitting error( Second ): mean= 0(0.00) std= 71(0.00)

The plane fitting error: mean= -28(-0.00) std= 1173(0.04) Hnz= 48314.964(1.03)

Hb perfect method: remove plane fitting error bigger than std\*0.80

2243(0.80 ) data remained

The plane fitting error: mean= -17(-0.00) std= 910(0.03) Hnz= 47895.014(1.02)

Hnz: std = 910(0.02); mean = 47878(0.02); maxErr1 = 1393; maxErr2 = 3406

Hxy: std = 2137(0.08); mean = 25225(-0.10); maxErr1 = 5541; maxErr2 = 6402

Hx Rec: std = 1333(0.05); mean = 28109(-0.00); maxErr1 = 3837; maxErr2 = 5712

Hxyz Rec : std = 1000(0.02); mean = 55534(0.02); maxErr1 = 2808; maxErr2 = 3500





## 2\_StandPlane

e=0.239 c=( -4734,2384 )=( -0.17,0.08 )\*Hnxy norm

e=0.000 c=( 0,0 )=( 0.00,0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -223(-0.01) std= 12264(0.44)

The ellipse fitting error( Second ): mean= -1(-0.00) std= 71(0.00)

The plane fitting error: mean= -89(-0.00) std= 2157(0.08) Hnz= 52435.035(1.12)

Hb perfect method: remove plane fitting error bigger than std\*0.80

3626(0.78 ) data remained

The plane fitting error: mean= -57(-0.00) std= 1713(0.06) Hnz= 51579.885(1.10)

Hnz: std = 1713(0.04); mean = 51523(0.10); maxErr1 = 2722; maxErr2 = 5509

Hxy: std = 3880(0.14); mean = 24475(-0.13); maxErr1 = 8404; maxErr2 = 7865

Hx Rec: std = 1342(0.05); mean = 28109(-0.00); maxErr1 = 4535; maxErr2 = 4625

Hxyz Rec : std = 1451(0.03); mean = 58714(0.08); maxErr1 = 3238; maxErr2 = 5565





## 2\_AirPlane

e=0.174 c=( -2705,1078 )=( -0.10,0.04 )\*Hnxy norm

e=0.000 c=( 0,-0 )=( 0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -32(-0.00) std= 21487(0.76)

The ellipse fitting error( Second ): mean= -0(-0.00) std= 100(0.00)

The plane fitting error: mean= -335(-0.01) std= 4119(0.15) Hnz= 50965.896(1.09)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1702(0.81 ) data remained

The plane fitting error: mean= -192(-0.01) std= 3078(0.11) Hnz= 49409.326(1.06)

Hnz: std = 3078(0.07); mean = 49217(0.05); maxErr1 = 5131; maxErr2 = 8900

Hxy: std = 5675(0.20); mean = 30124(0.07); maxErr1 = 17479; maxErr2 = 14603

Hx Rec: std = 5074(0.18); mean = 27680(-0.02); maxErr1 = 14046; maxErr2 = 12605

Hxyz Rec : std = 1403(0.03); mean = 56760(0.04); maxErr1 = 4564; maxErr2 = 3437



## 3\_StandPlane

e=0.243 c=( -3680,2053 )=( -0.13,0.07 )\*Hnxy norm

e=0.000 c=( -0,0 )=( -0.00,0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -403(-0.01) std= 12348(0.44)

The ellipse fitting error( Second ): mean= -2(-0.00) std= 71(0.00)

The plane fitting error: mean= -64(-0.00) std= 1773(0.06) Hnz= 49344.275(1.06)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1009(0.80 ) data remained

The plane fitting error: mean= -43(-0.00) std= 1440(0.05) Hnz= 48754.441(1.04)

Hnz: std = 1440(0.03); mean = 48712(0.04); maxErr1 = 2158; maxErr2 = 4131

Hxy: std = 3533(0.13); mean = 24769(-0.12); maxErr1 = 6762; maxErr2 = 6470

Hx Rec: std = 1354(0.05); mean = 28108(-0.00); maxErr1 = 3953; maxErr2 = 3771

Hxyz Rec : std = 1153(0.02); mean = 56263(0.03); maxErr1 = 2612; maxErr2 = 2951



## 4\_StandPlane

**e=0.308 c=( 1681,3694 )=( 0.06,0.13 )\*Hnxy norm**

e=0.000 c=( -0,0 )=( -0.00,0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -456(-0.02) std= 12346(0.44)

The ellipse fitting error( Second ): mean= -3(-0.00) std= 77(0.00)

The plane fitting error: mean= -292(-0.01) std= 4150(0.15) Hnz= 59223.432(1.27)

Hb perfect method: remove plane fitting error bigger than std\*0.80

2476(0.85 ) data remained

The plane fitting error: mean= -265(-0.01) std= 3926(0.14) Hnz= 58460.404(1.25)

Hnz: std = 3926(0.08); mean = 58196(0.25); maxErr1 = 5111; maxErr2 = 12139

Hxy: std = 2843(0.10); mean = 23793(-0.15); maxErr1 = 7335; maxErr2 = 10288

Hx Rec: std = 1766(0.06); mean = 28085(-0.00); maxErr1 = 6138; maxErr2 = 8535

Hxyz Rec : std = 3095(0.06); mean = 64687(0.19); maxErr1 = 4960; maxErr2 = 10031



## 6S 刚校准

e=0.288 c=( 6377,4474 )=( 0.23,0.16 )\*Hnxy norm

e=0.000 c=( 0,-0 )=( 0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= 164(0.01) std= 11570(0.41)

The ellipse fitting error( Second ): mean= 1(0.00) std= 73(0.00)

The plane fitting error: mean= -146(-0.01) std= 2963(0.11) Hnz= 60181.741(1.29)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1165(0.78 ) data remained

The plane fitting error: mean= -92(-0.00) std= 2318(0.08) Hnz= 58754.594(1.26)

Hnz: std = 2318(0.05); mean = 58663(0.26); maxErr1 = 4561; maxErr2 = 6348

Hxy: std = 6054(0.22); mean = 23534(-0.16); maxErr1 = 9152; maxErr2 = 12860

Hx Rec: std = 1554(0.06); mean = 28098(-0.00); maxErr1 = 4387; maxErr2 = 5780

Hxyz Rec : std = 1922(0.04); mean = 65076(0.19); maxErr1 = 4265; maxErr2 = 5602





## 7S 刚校准

e=0.159 c=( -637,2791 )=( -0.02,0.10 )\*Hnxy norm

e=0.000 c=( 0,0 )=( 0.00,0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -216(-0.01) std= 12314(0.44)

The ellipse fitting error( Second ): mean= -1(-0.00) std= 70(0.00)

The plane fitting error: mean= -26(-0.00) std= 1121(0.04) Hnz= 47551.430(1.02)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1088(0.81 ) data remained

The plane fitting error: mean= -15(-0.00) std= 836(0.03) Hnz= 47136.212(1.01)

Hnz: std = 836(0.02); mean = 47121(0.01); maxErr1 = 1348; maxErr2 = 3214

Hxy: std = 2269(0.08); mean = 24667(-0.12); maxErr1 = 6011; maxErr2 = 4946

Hx Rec: std = 1290(0.05); mean = 28111(-0.00); maxErr1 = 3722; maxErr2 = 3311

Hxyz Rec : std = 973(0.02); mean = 54882(0.01); maxErr1 = 2555; maxErr2 = 2680





## 7 刚校准-空中准平面旋转

e=0.213 c=( 128,4323 )=( 0.00,0.15 )\*Hnxy norm

e=0.000 c=( -0,-0 )=( -0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= 24(0.00) std= 11855(0.42)

The ellipse fitting error( Second ): mean= 0(0.00) std= 70(0.00)

The plane fitting error: mean= -46(-0.00) std= 1502(0.05) Hnz= 49455.273(1.06)

Hb perfect method: remove plane fitting error bigger than std\*0.80

888(0.80 ) data remained

The plane fitting error: mean= -27(-0.00) std= 1159(0.04) Hnz= 48955.184(1.05)

Hnz: std = 1159(0.02); mean = 48928(0.05); maxErr1 = 1912; maxErr2 = 3993

Hxy: std = 3052(0.11); mean = 24817(-0.12); maxErr1 = 5427; maxErr2 = 6900

Hx Rec: std = 1275(0.05); mean = 28112(-0.00); maxErr1 = 4052; maxErr2 = 3963

Hxyz Rec : std = 1148(0.02); mean = 56443(0.03); maxErr1 = 2944; maxErr2 = 3866





## 8\_1刚校准

e=0.140 c=( -972,3072 )=( -0.03,0.11 )\*Hnxy norm

e=0.000 c=( 0,0 )=( 0.00,0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -310(-0.01) std= 12288(0.44)

The ellipse fitting error( Second ): mean= -2(-0.00) std= 72(0.00)

The plane fitting error: mean= -27(-0.00) std= 1156(0.04) Hnz= 50232.092(1.07)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1538(0.81 ) data remained

The plane fitting error: mean= -16(-0.00) std= 887(0.03) Hnz= 49839.351(1.07)

Hnz: std = 887(0.02); mean = 49824**(0.07)**; maxErr1 = 1401; maxErr2 = 3159

Hxy: std = 2655(0.09); mean = 24250(-0.14); maxErr1 = 6038; maxErr2 = 5860

Hx Rec: std = 1343(0.05); mean = 28109(-0.00); maxErr1 = 4421; maxErr2 = 3211

Hxyz Rec : std = 991(0.02); mean = 57220(0.05); maxErr1 = 3140; maxErr2 = 3556







## 8\_A 消磁-未重新校准

e=0.159 c=( -7027,-3688 )=( -0.25,-0.13 )\*Hnxy norm

e=0.000 c=( 0,-0 )=( 0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -189(-0.01) std= 12743(0.45)

The ellipse fitting error( Second ): mean= -1(-0.00) std= 71(0.00)

The plane fitting error: mean= -57(-0.00) std= 1760(0.06) Hnz= 54007.957(1.16)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1571(0.84 ) data remained

The plane fitting error: mean= -19(-0.00) std= 998(0.04) Hnz= 53597.484(1.15)

Hnz: std = 998(0.02); mean = 53579**(0.15);** maxErr1 = 2289; maxErr2 = 3169

Hxy: std = 5329(0.19); mean = 27600(-0.02); maxErr1 = 8931; maxErr2 = 11998

Hx Rec: std = 1298(0.05); mean = 28111(-0.00); maxErr1 = 4165; maxErr2 = 3311

Hxyz Rec : std = 1083(0.02); mean = 60518(0.11); maxErr1 = 3030; maxErr2 = 3469





## 8\_B 磁铁靠近磁化1分钟后拿开

e=0.326 c=( 23053,6349 )=( 0.82,0.23 )\*Hnxy norm

e=0.000 c=( 0,-0 )=( 0.00,-0.00 )\*Hnxy norm

The ellipse fitting error( First ): mean= -31(-0.00) std= 12514(0.44)

The ellipse fitting error( Second ): mean= -0(-0.00) std= 73(0.00)

The plane fitting error: mean= -155(-0.01) std= 1741(0.06) Hnz= 19715.678(0.42)

Hb perfect method: remove plane fitting error bigger than std\*0.80

1625(0.82 ) data remained

The plane fitting error: mean= -102(-0.00) std= 1401(0.05) Hnz= 19247.417(0.41)

Hnz: std = 1401(0.03); mean = 19145**(-0.59)**; maxErr1 = 2318; maxErr2 = 4237

Hxy: std = 13424(0.48); mean = 28990(0.03); maxErr1 = 22189; maxErr2 = 28752

Hx Rec: std = 1500(0.05); mean = 28101(-0.00); maxErr1 = 3767; maxErr2 = 4842

Hxyz Rec : std = 1232(0.02); mean = 34042(-0.38); maxErr1 = 4026; maxErr2 = 3785





## 8\_C 再次消磁