

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 4354 - L2 Version 001
Chandra X-Ray Center

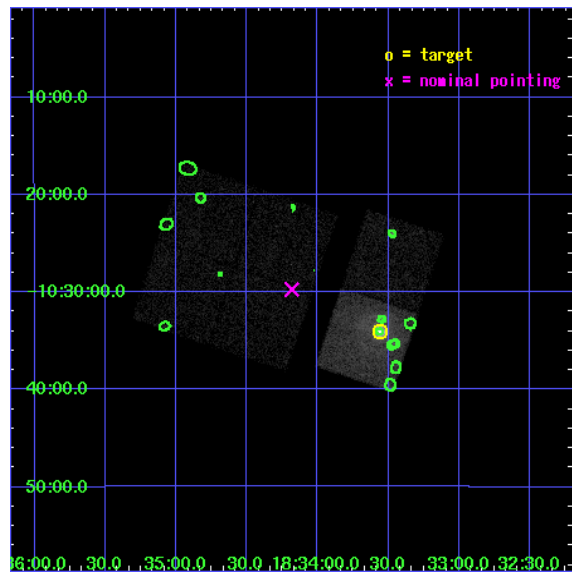
L2 Processing Date : Aug 12 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

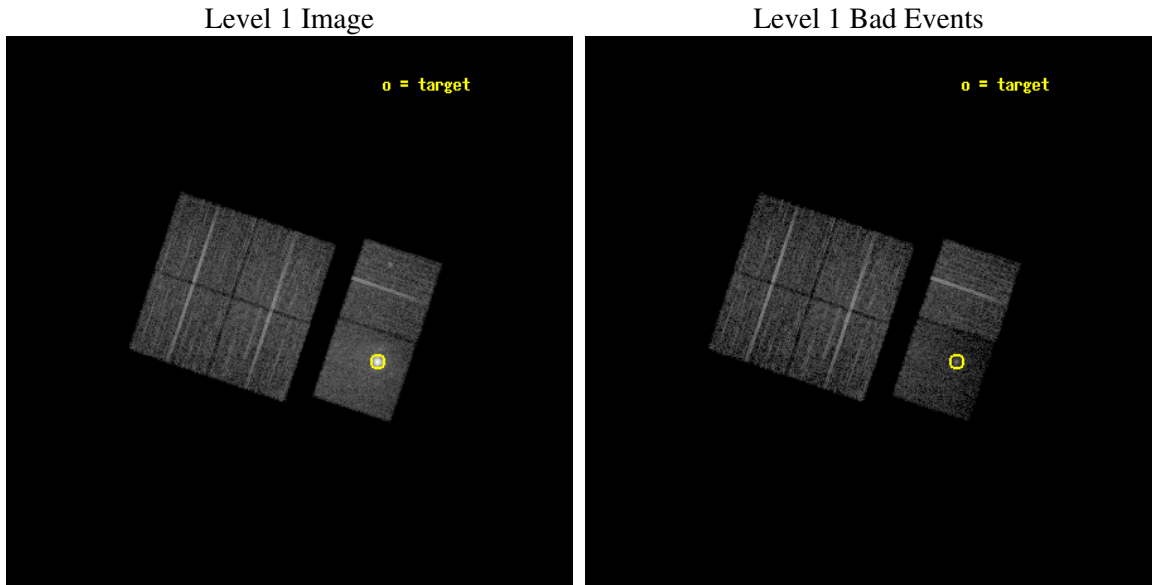
seq_num	590319
obs_id	4354
title	AO4 CALIBRATION OBSERVATIONS TO MEASURE THE MIRROR VIGNETTING
observer	Dr. CXC Calibration
object	G21.5-0.9[Chip S3, T=120, Offsets=-1,10,-17]
dtcycle	0
cycle	P
ra_targ	278.389583
dec_targ	-10.568528
ra_nom	278.54555421648
dec_nom	-10.495756253745
roll_nom	108.52881614274
revision	2
ontime	9980.7999628186
livetime	9854.4170639732
ontime0	9868.3270089924
ontime1	9868.3681485951
ontime2	9854.4016549289
ontime3	9860.8835555911
ontime6	9862.0502285957
ontime7	9980.7999628186
l2events	73894



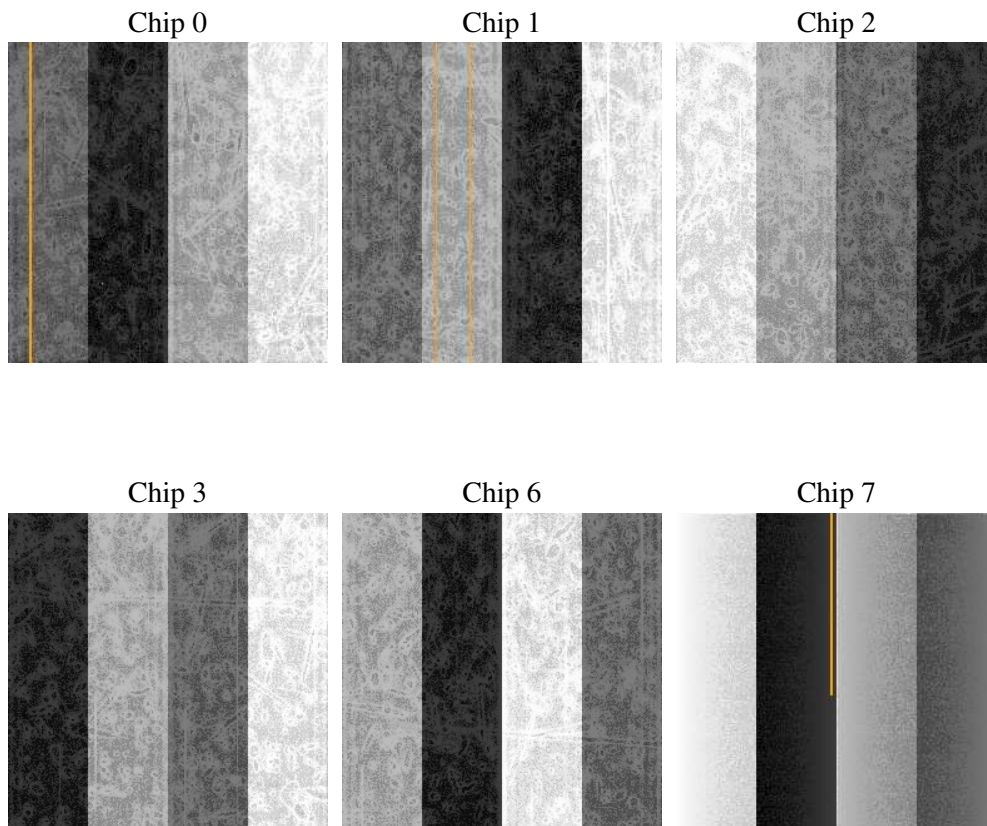
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-08-12T06:57:28
revision	2

sched_exp_time	9806.000000
ontime	11106.919156611
ontime0	10261.018390387
ontime1	10264.259530008
ontime2	10231.849179894
ontime3	10254.53617084
ontime6	10254.536410004
ontime7	11106.919156611
l1events	435677

2.1.4 Events

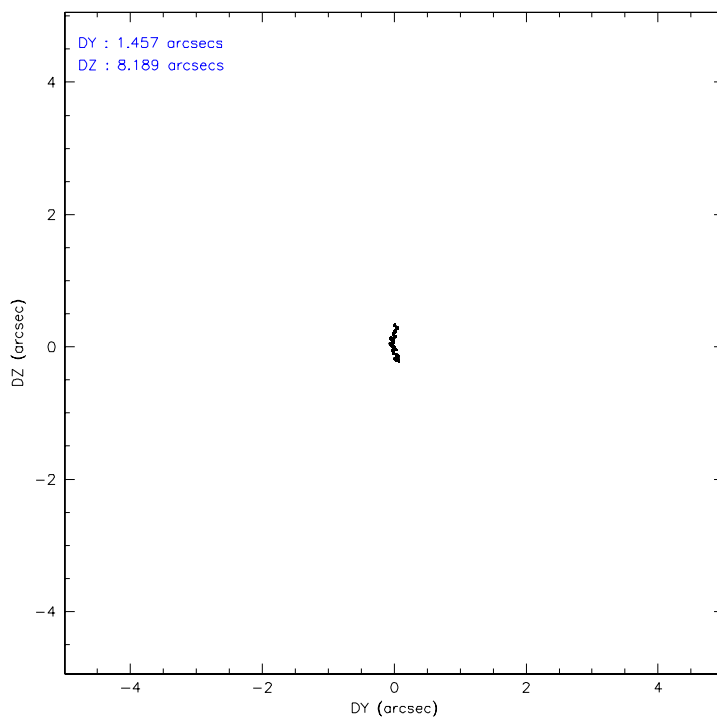
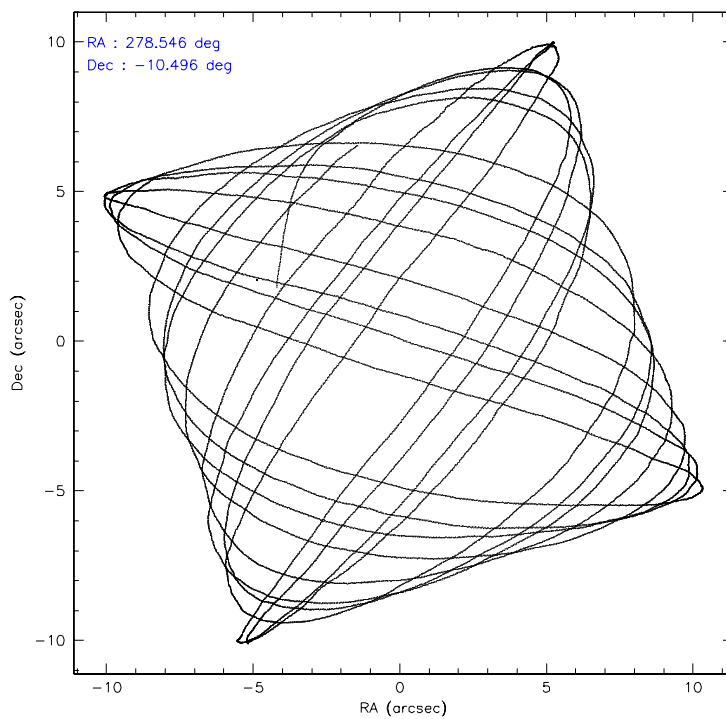
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	60427	61102	66934	64638	66211	116365
rejected events	55592	55908	61773	60051	59711	63691
rejected %	91%	91%	92%	92%	90%	54%

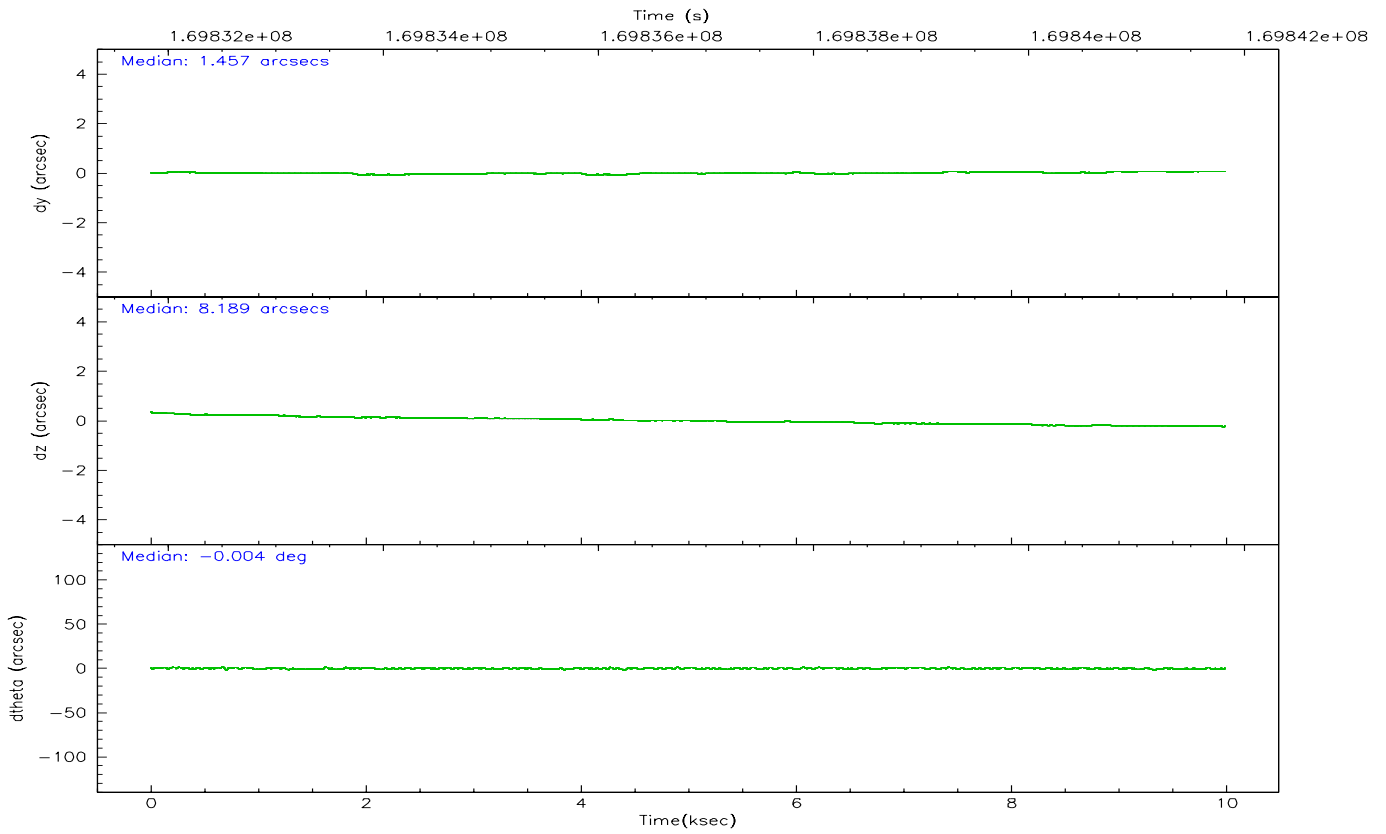
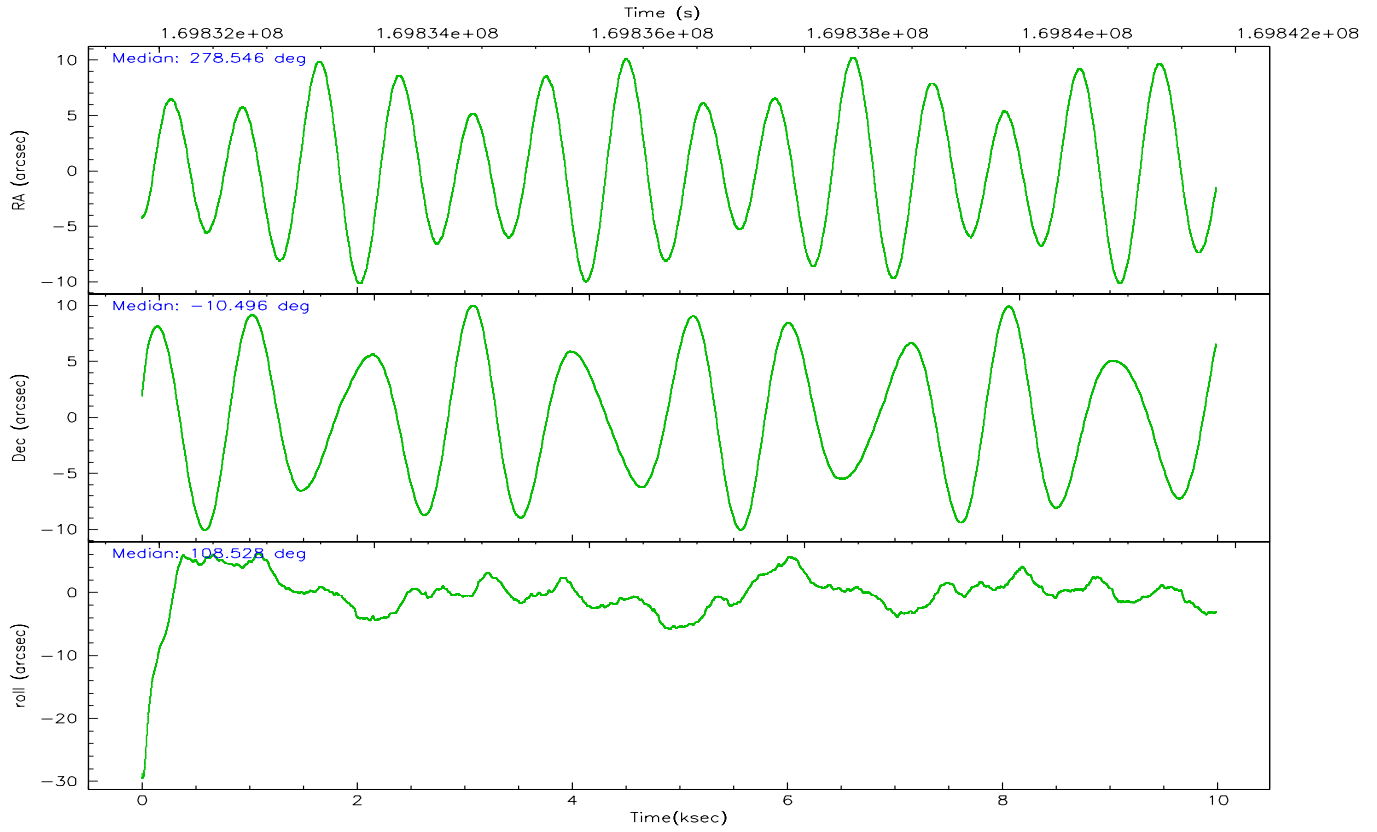
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	8993	9205	9234	9283	10152	14075
	14%	15%	13%	14%	15%	12%
grade 1 events	57	51	60	62	69	64
	0%	0%	0%	0%	0%	0%
grade 2 events	3411	3344	3427	3212	3604	24500
	5%	5%	5%	4%	5%	21%
grade 3 events	1405	1476	1453	1421	1536	7260
	2%	2%	2%	2%	2%	6%
grade 4 events	1311	1460	1403	1401	1501	6984
	2%	2%	2%	2%	2%	6%
grade 5 events	1500	1637	1499	1706	1750	4575
	2%	2%	2%	2%	2%	3%
grade 6 events	2809	2957	2664	2715	3174	33939
	4%	4%	3%	4%	4%	29%
grade 7 events	40941	40972	47194	44838	44425	24968
	67%	67%	70%	69%	67%	21%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	278.566512	278.5455542164764	Alternating exposures requested	N	N
Pointing Dec	-10.513787	-10.49575625374543	Primary exposure time	0.000000	3.2
Pointing Roll	108.323955	108.5288161427429			
Window start time	168134464.184000	168134464.184000			
Window stop time	173318464.184000	173318464.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-216.595463	-216.5906630222831			
SIM translation stage offset (mm)	-16.997	-17.00178998064661			
Observation start time	169832019.184000	169830135.0751			
Observation start date	2003-05-20T15:32:35	2003-05-20T15:02:15			
Observation end time	169841825.184000	169841966.6506			
Observation end date	2003-05-20T18:16:01	2003-05-20T18:19:26			
Read mode	TIMED	TIMED			

2.3 Aspect



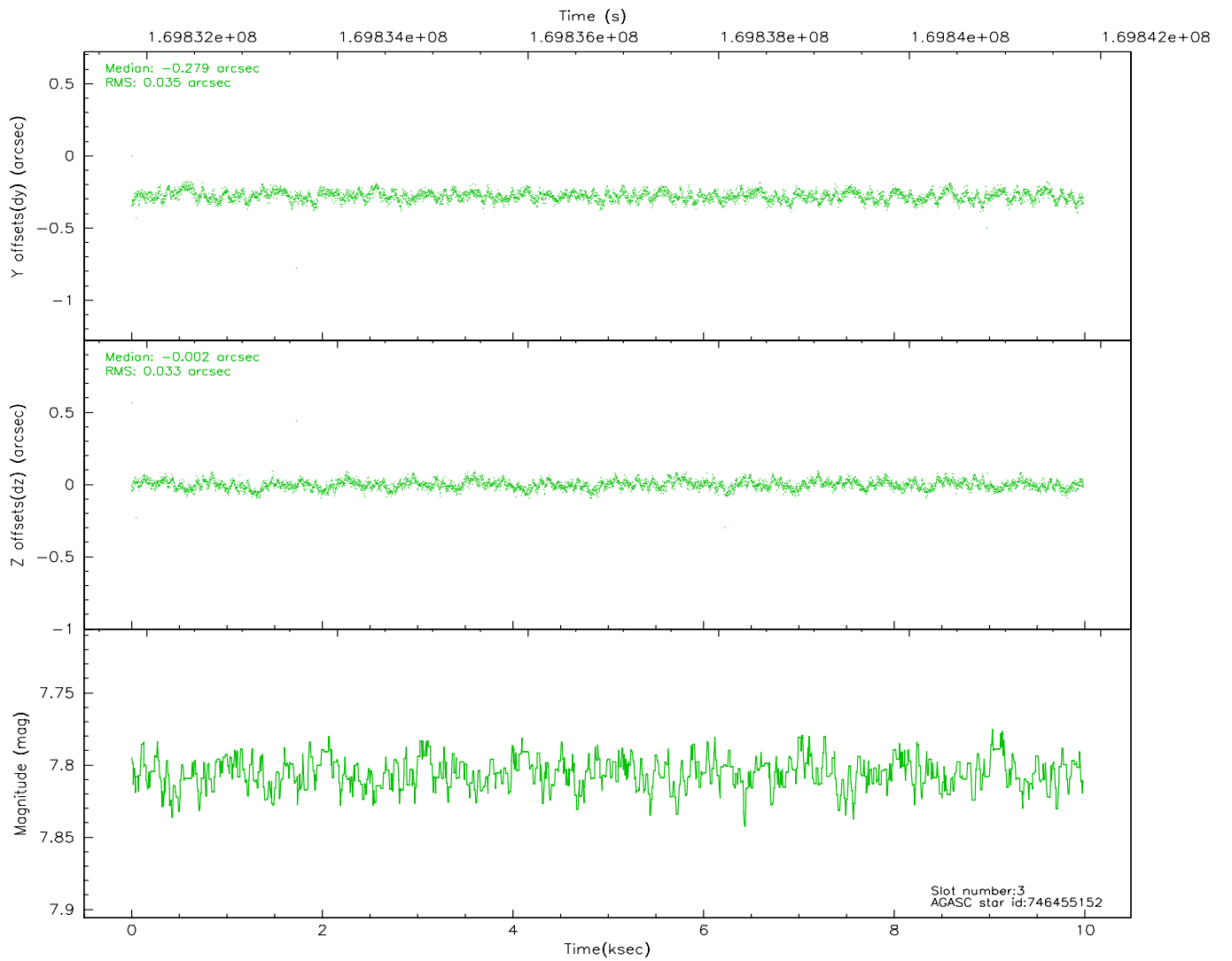
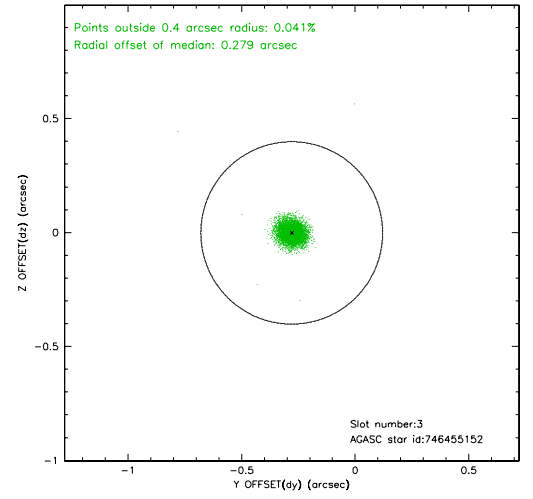
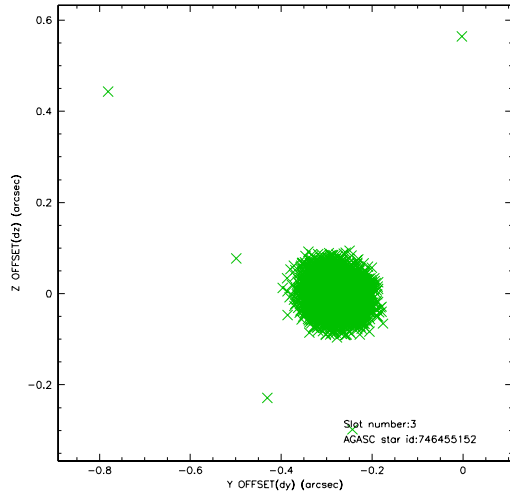


Slot Statistics

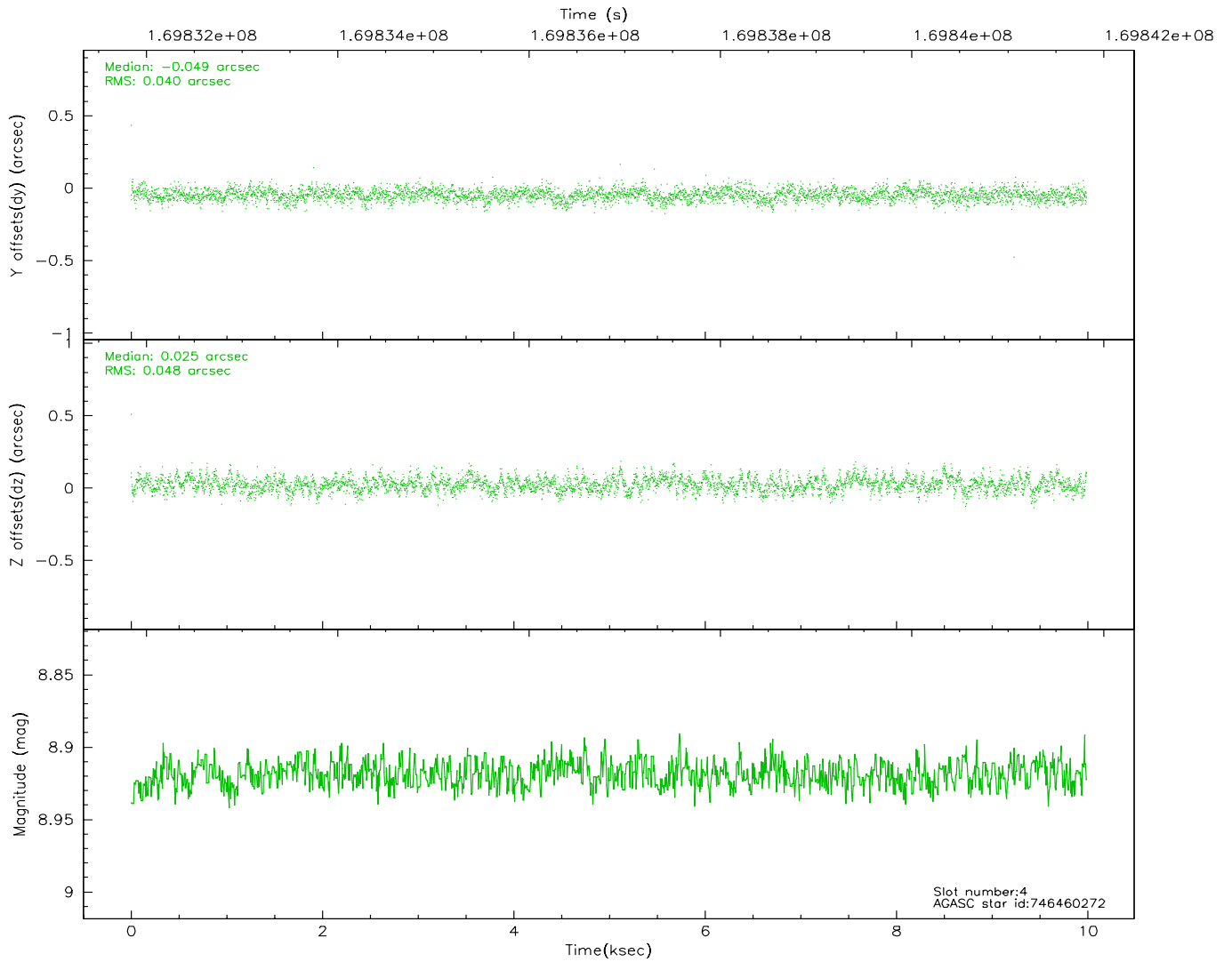
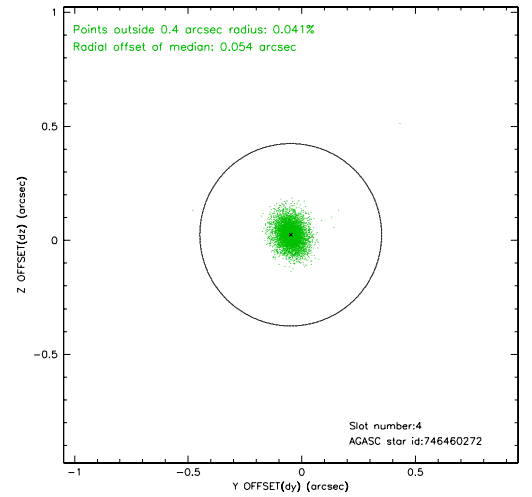
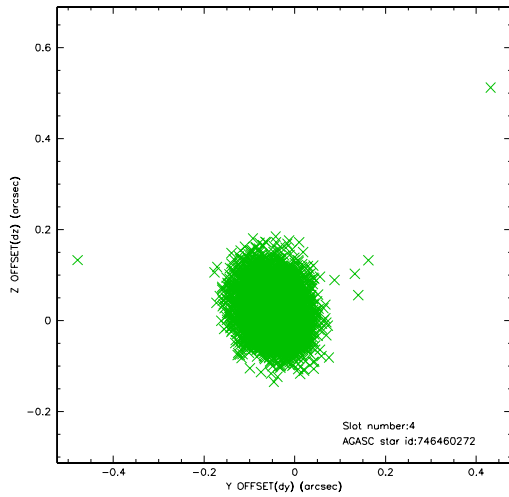
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.18	2436	-0.163	0.133	0.009	0.016	0.000000	0.000000	2156.87	721.37
1	FID	ACIS-I-5	7.22	2436	-0.142	0.045	0.006	0.011	0.000000	0.000000	-1809.41	717.07
2	FID	ACIS-I-6	7.27	2436	0.206	-0.107	0.009	0.016	0.000000	0.000000	403.19	1361.33
3	GUIDE	746455152	7.81	4872	-0.279	-0.002	0.049	0.078	278.447893	-9.976732	1967.65	-208.48
4	GUIDE	746460272	8.92	4870	-0.049	0.025	0.065	0.107	278.847488	-10.152127	923.29	-1354.33
5	GUIDE	746460328	9.80	4865	-0.043	-0.032	0.119	0.202	278.603974	-9.898096	2062.65	-823.09
6	GUIDE	746462392	8.53	4869	0.212	0.045	0.068	0.106	279.038421	-10.890715	-1813.55	-1156.99
7	GUIDE	746462456	8.39	4869	0.159	-0.029	0.069	0.114	278.652171	-10.530173	-151.62	-269.39

2.4 Star Slots

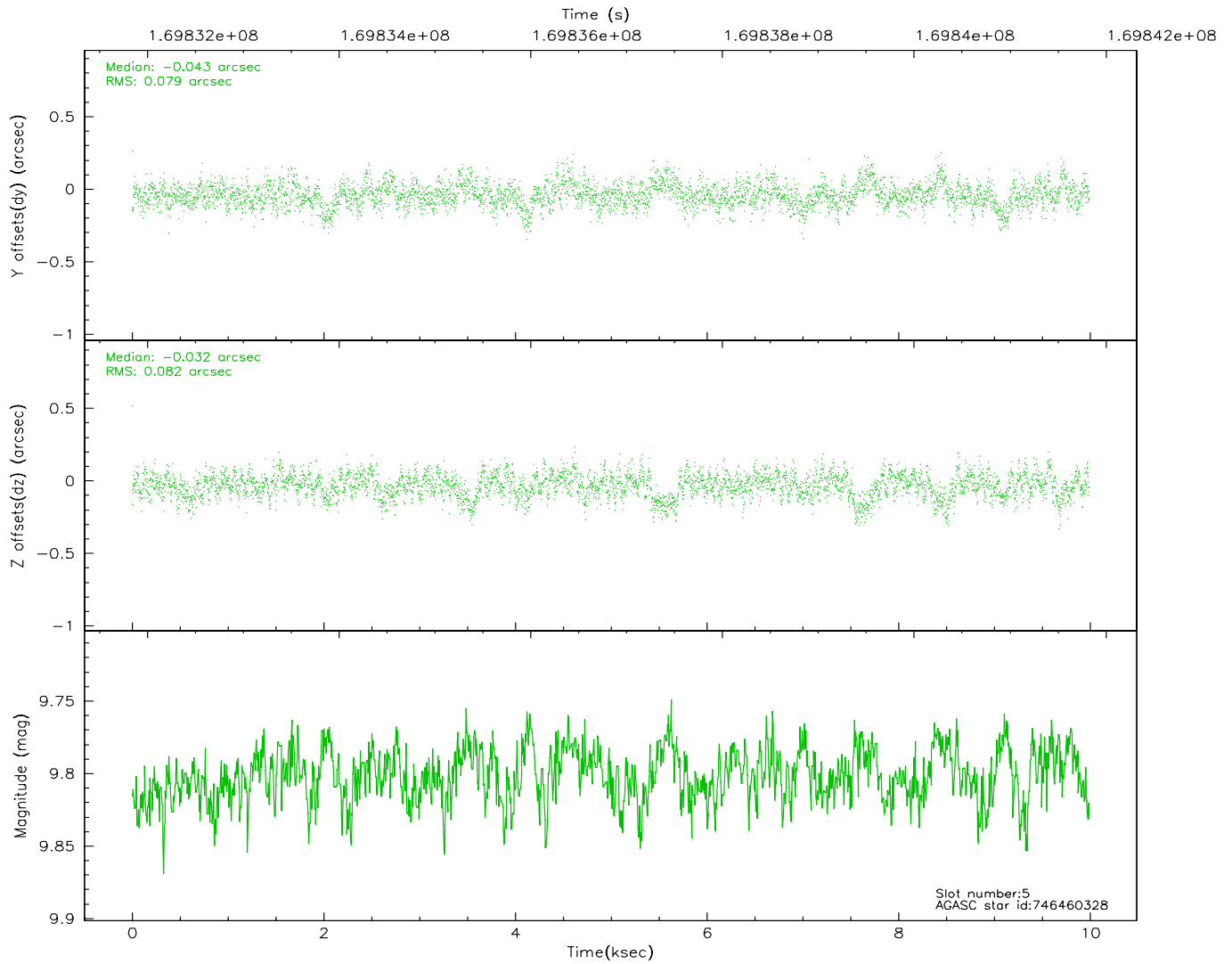
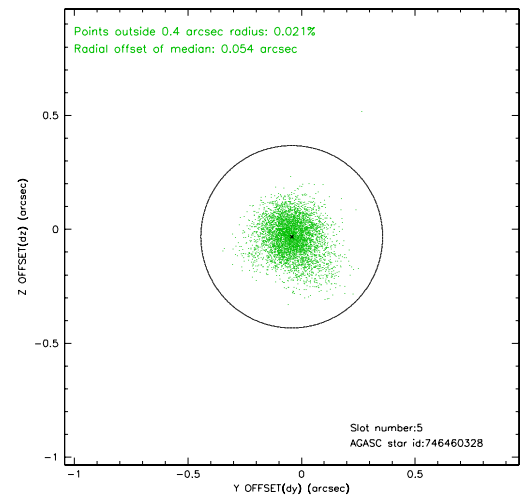
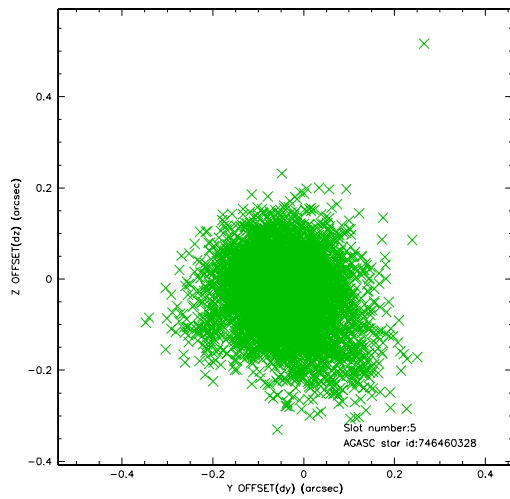
2.4.1 Slot 3



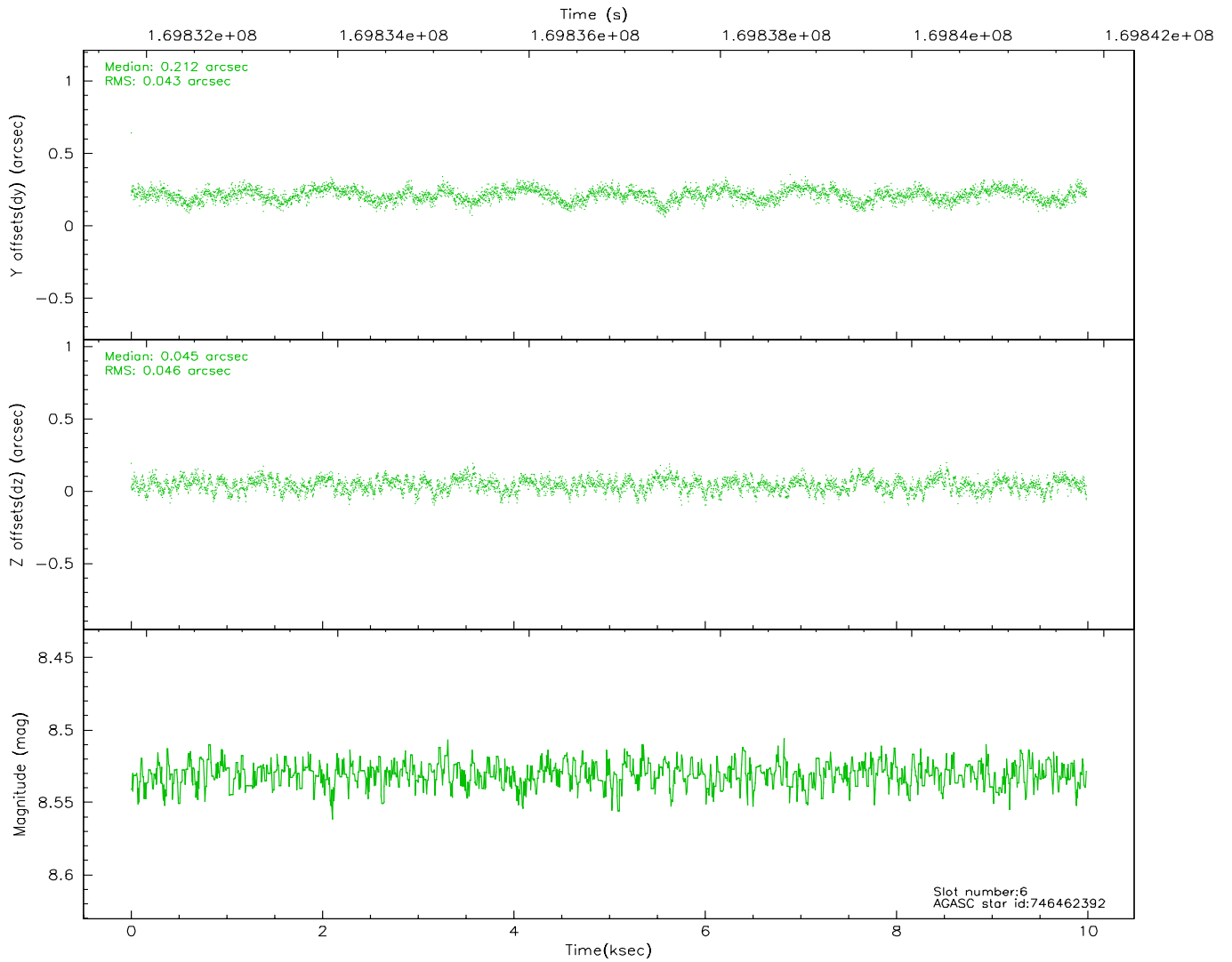
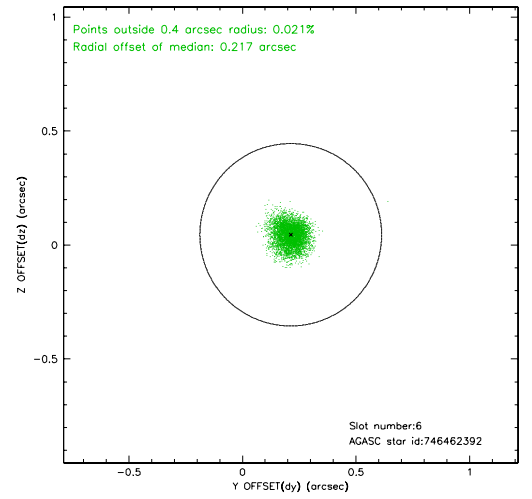
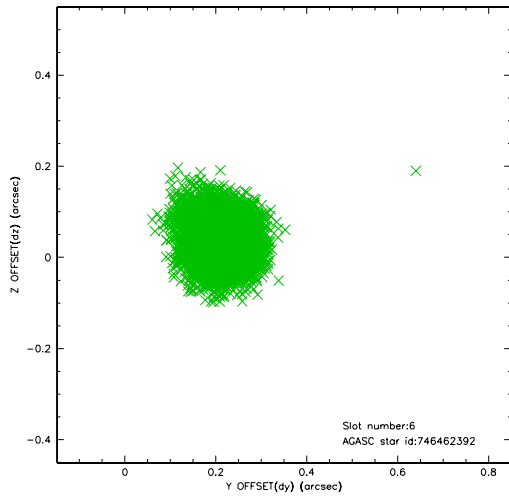
2.4.2 Slot 4



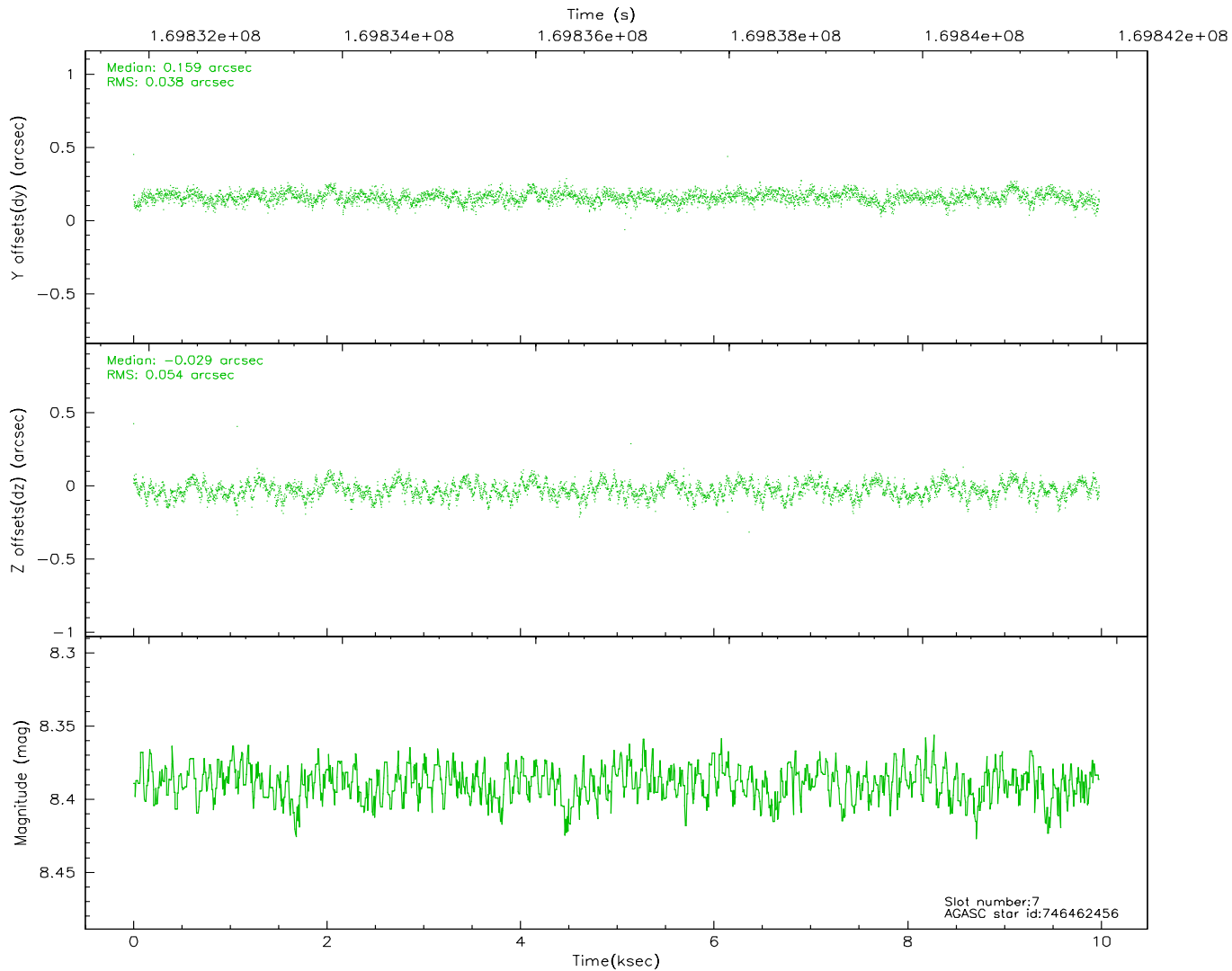
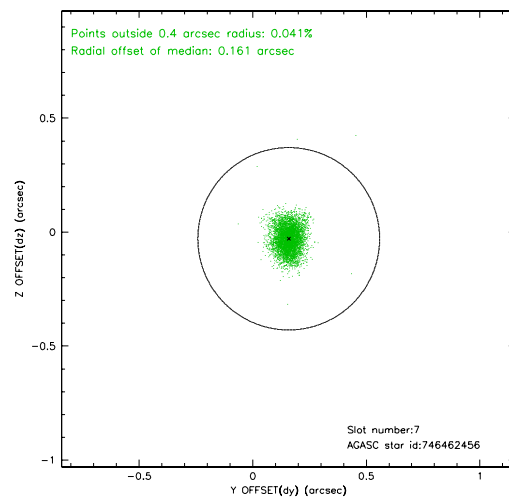
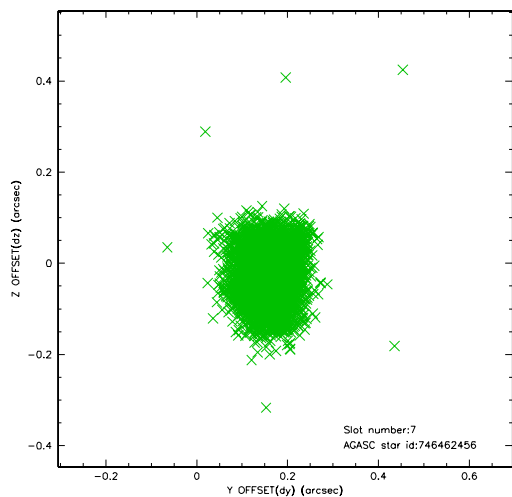
2.4.3 Slot 5



2.4.4 Slot 6

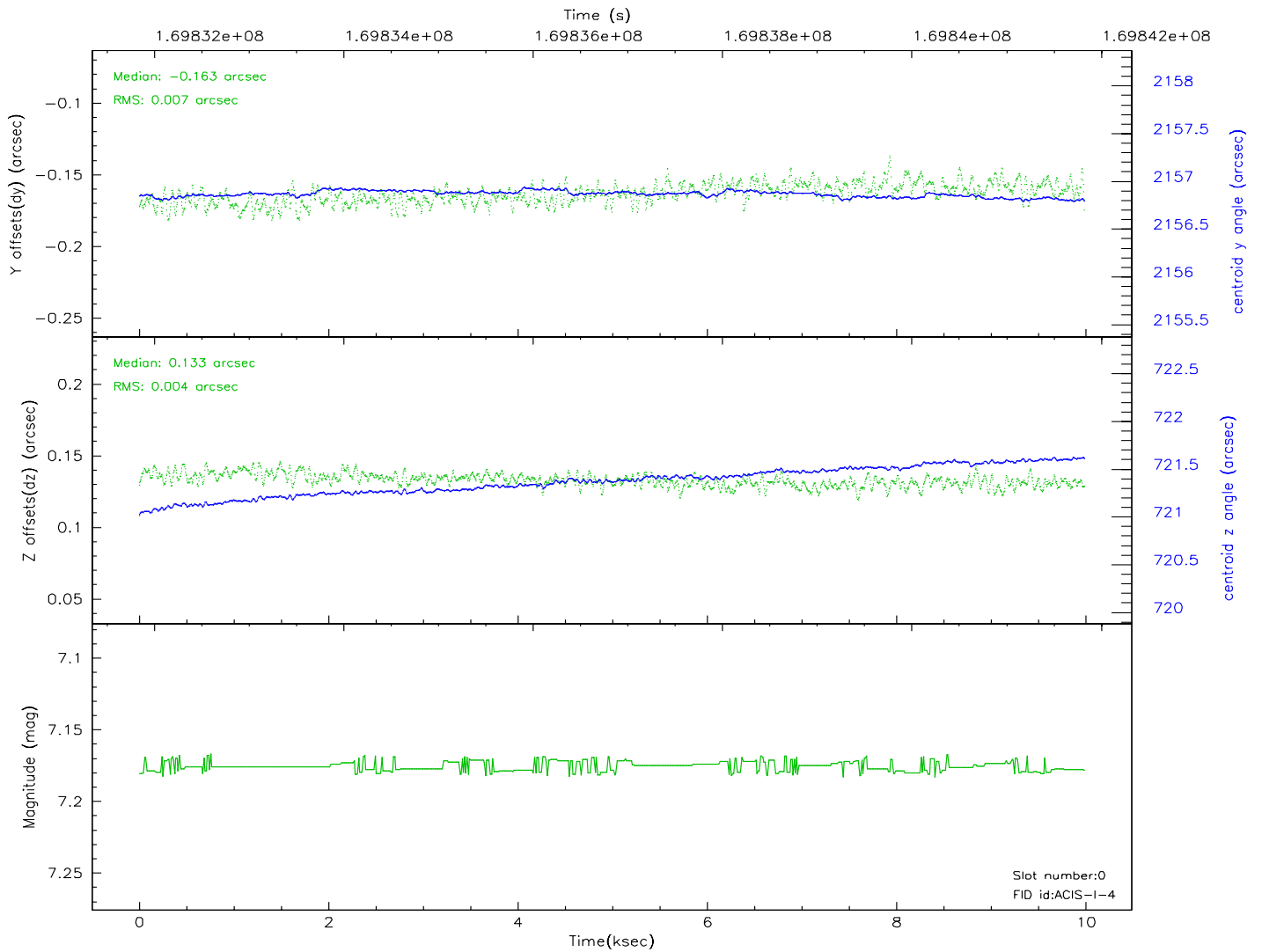
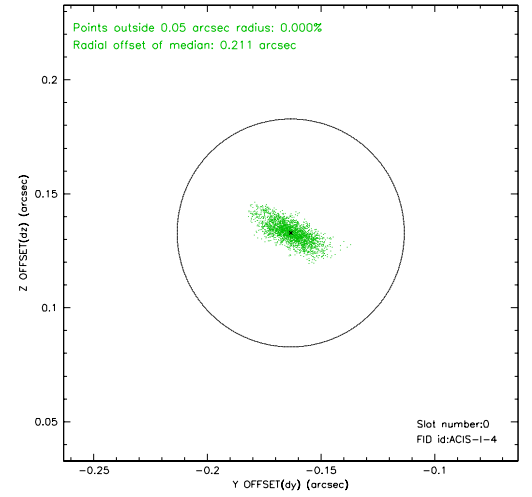
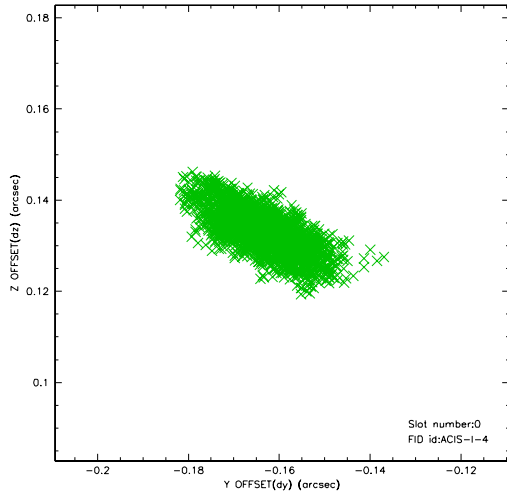


2.4.5 Slot 7

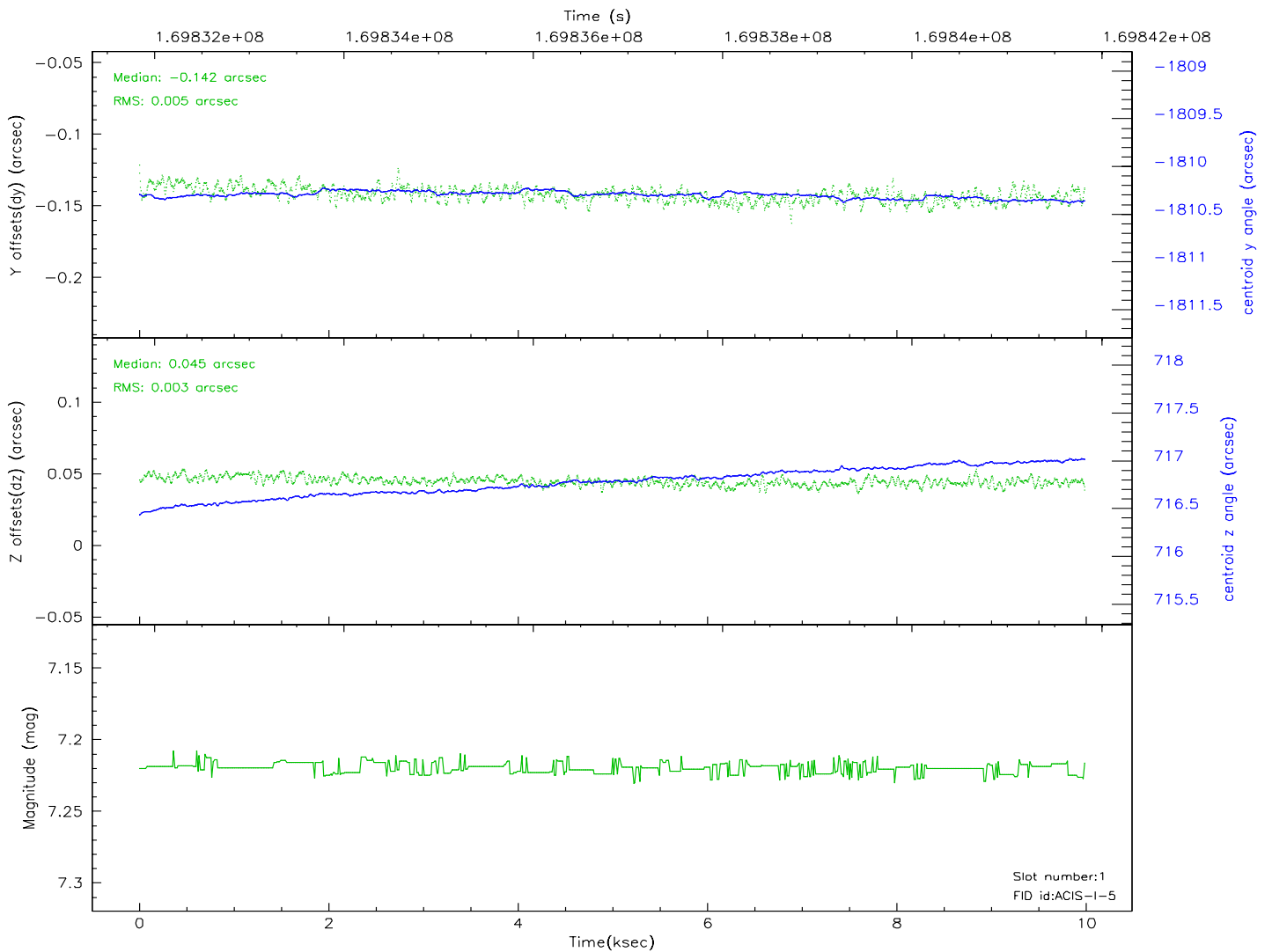
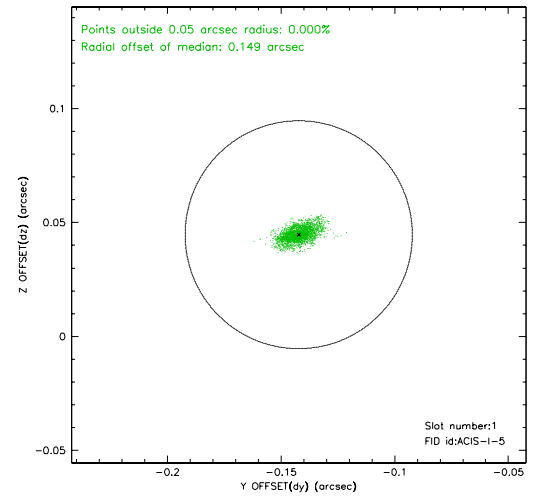
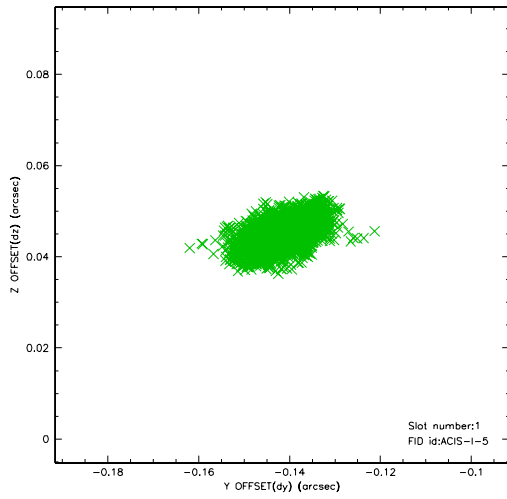


2.5 FID Slots

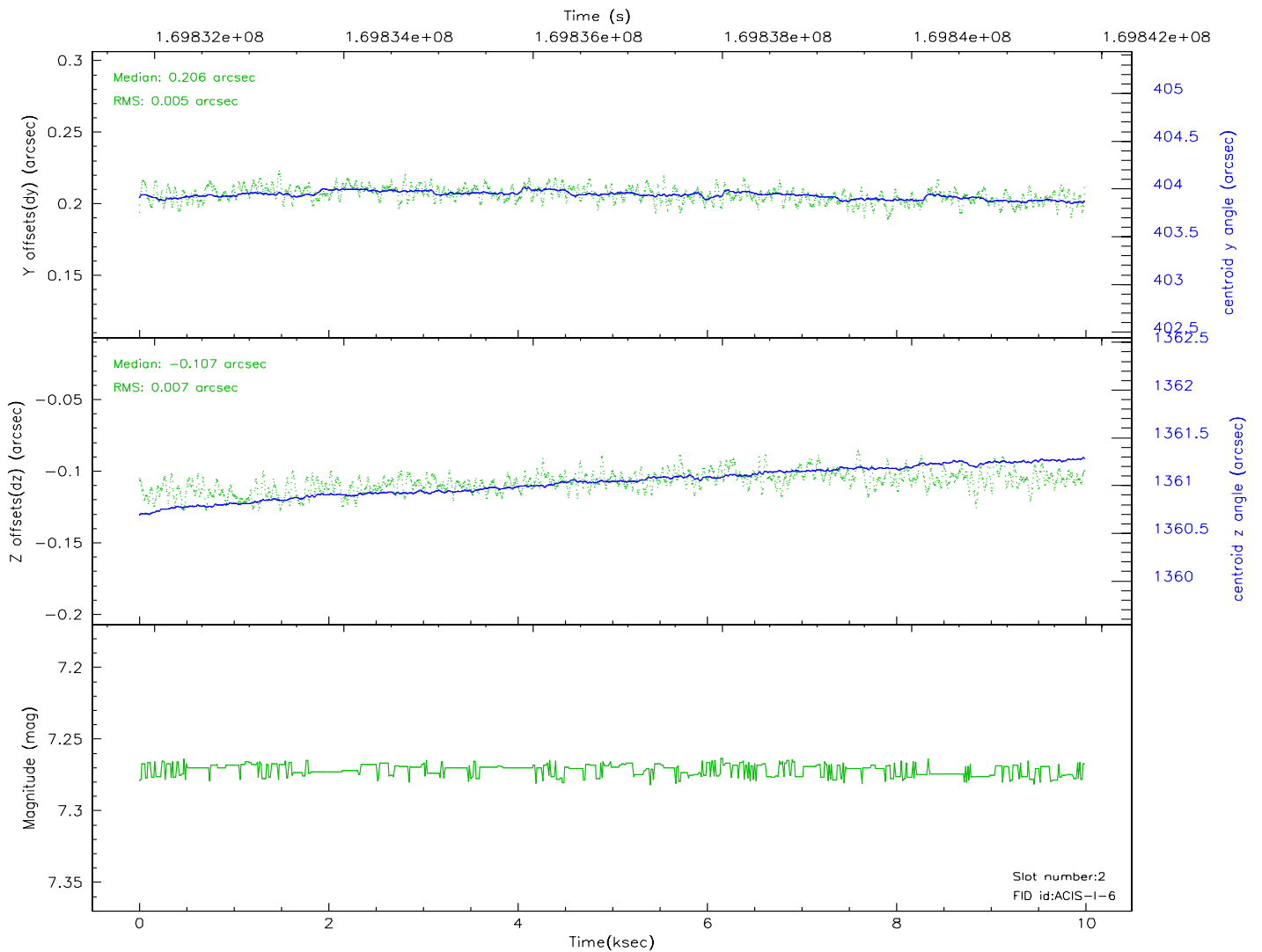
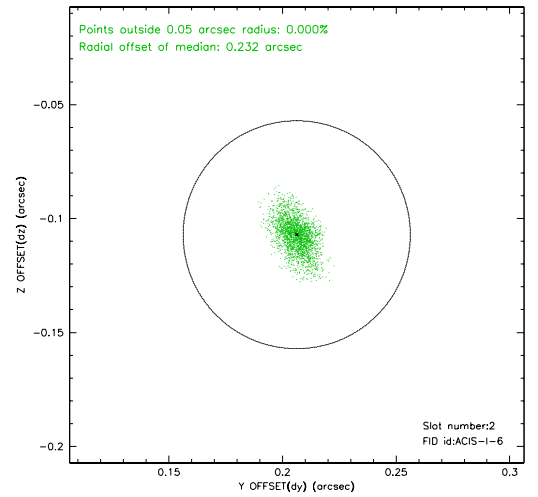
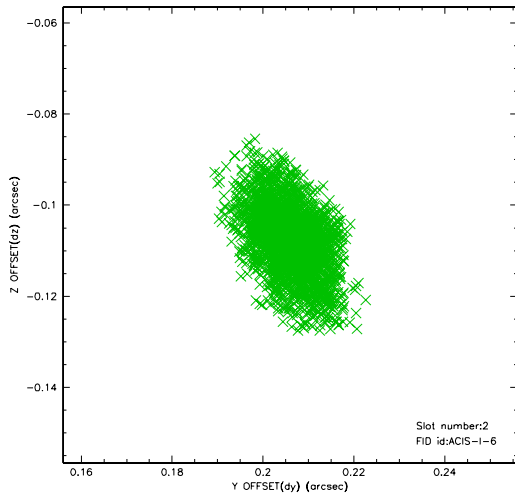
2.5.1 Slot 0



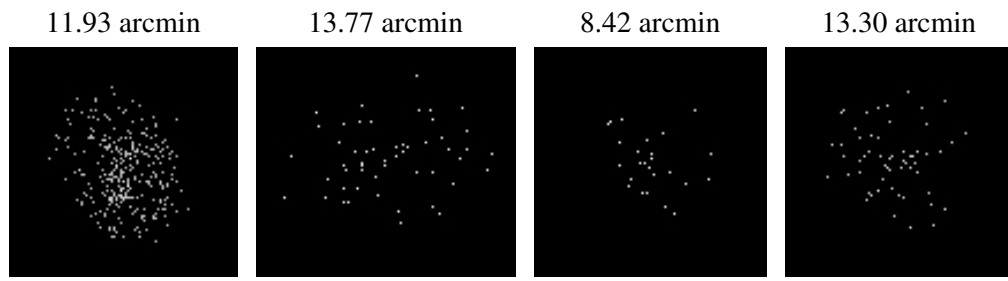
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.98

A.2 Comments

Window constraint met.