

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4444 - L2 Version 3
Chandra X-Ray Center

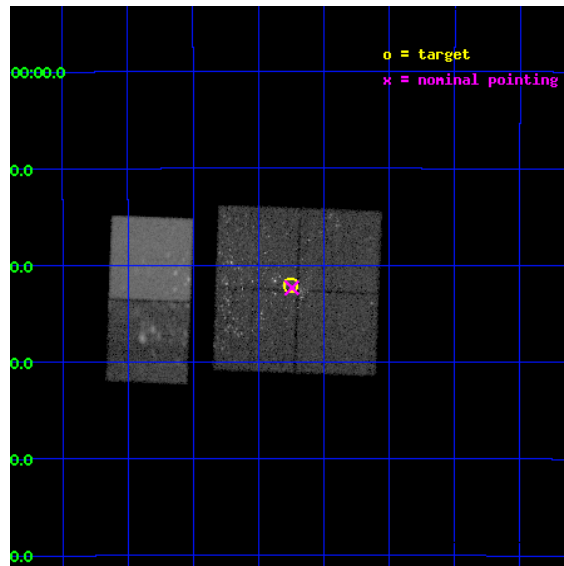
L2 Processing Date : Nov 1 2012

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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

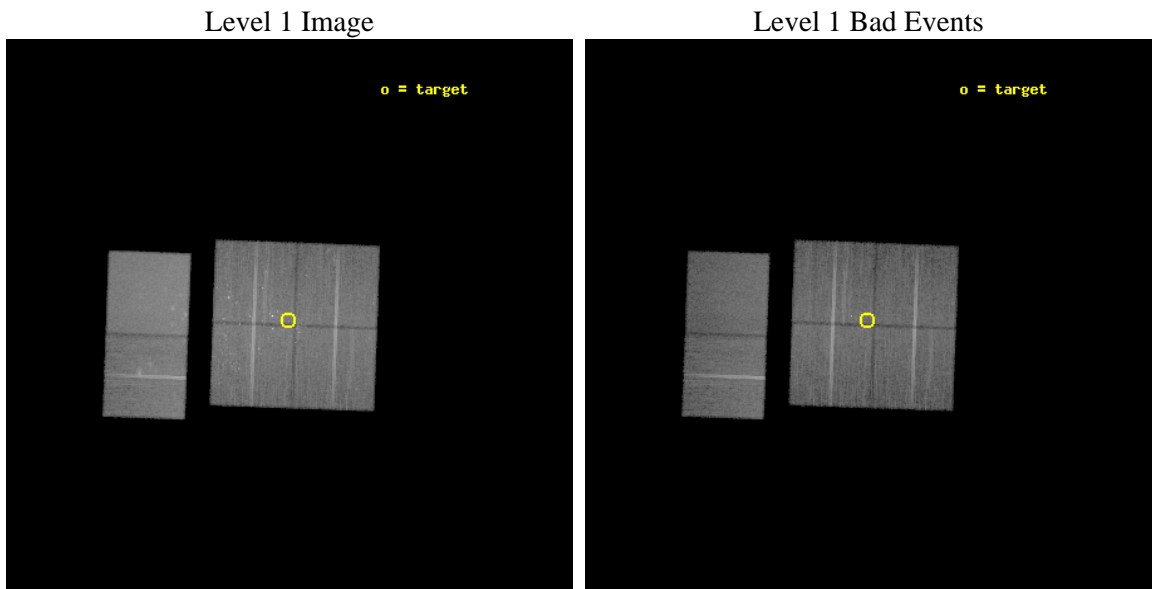
seq_num	200224	Sequence number
obs_id	4444	Observation id
title	DEEP INSIDE THE LAGOON NEBULA	Proposal title
observer	Prof. Marc Gagne	Principal investigator
object	M8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.937917	Observer's specified target RA [deg]
dec_targ	-24.368056	Observer's specified target Dec [deg]
ra_nom	270.93612194189	Nominal RA [deg]
dec_nom	-24.372416188147	Nominal Dec [deg]
roll_nom	272.09795503861	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30188.237284422	Sum of GTIs [s]
livetime	29805.975646752	Livetime [s]
ontime0	30184.873164237	Sum of GTIs [s]
ontime1	30188.155204415	Sum of GTIs [s]
ontime2	30188.196244419	Sum of GTIs [s]
ontime3	30188.237284422	Sum of GTIs [s]
ontime6	30188.319364429	Sum of GTIs [s]
ontime7	30188.278324425	Sum of GTIs [s]
l2events	251206	Number of level 2 events



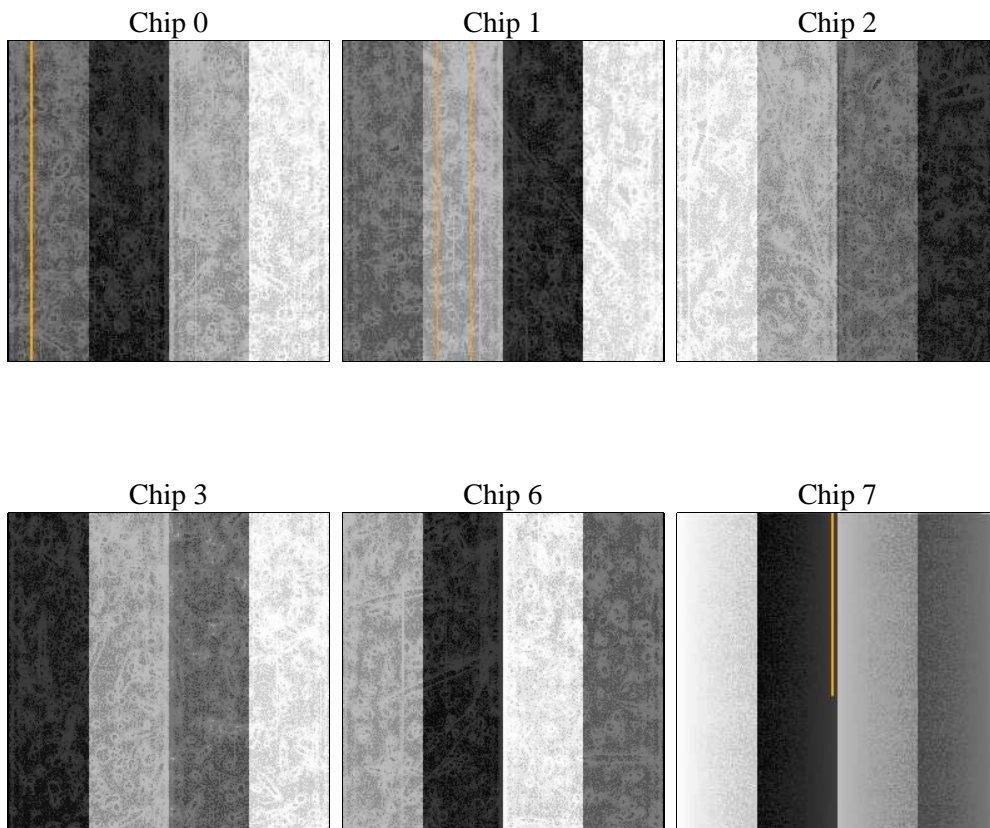
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30226.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30188.237284422	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	30184.873164237	Sum of GTIs [s]
date	2012-11-01T11:11:08	Date and time of file creation	ontime1	30188.155204415	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	30188.196244419	Sum of GTIs [s]
			ontime3	30188.237284422	Sum of GTIs [s]
			ontime6	30188.319364429	Sum of GTIs [s]
			ontime7	30188.278324425	Sum of GTIs [s]
			l1events	1224415	Number of level 1 events

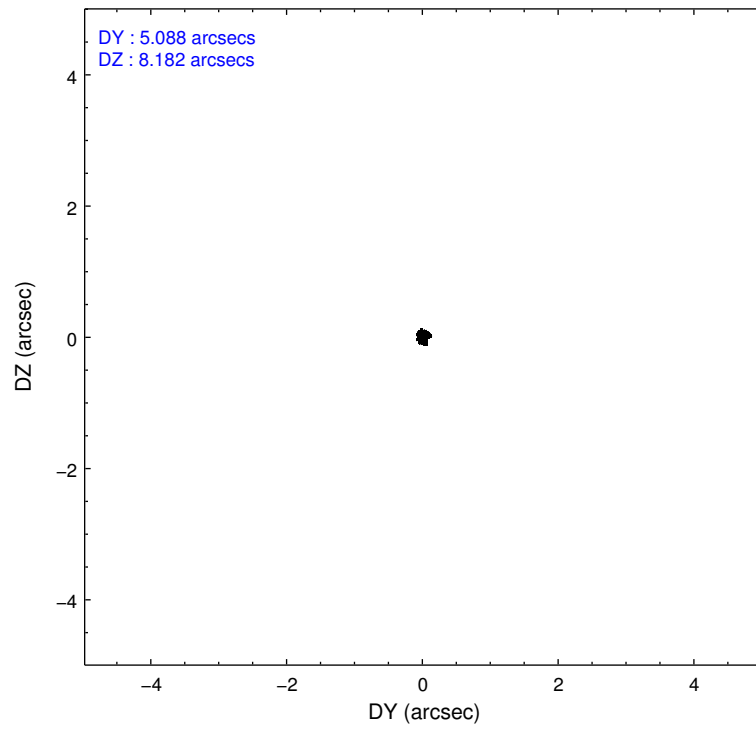
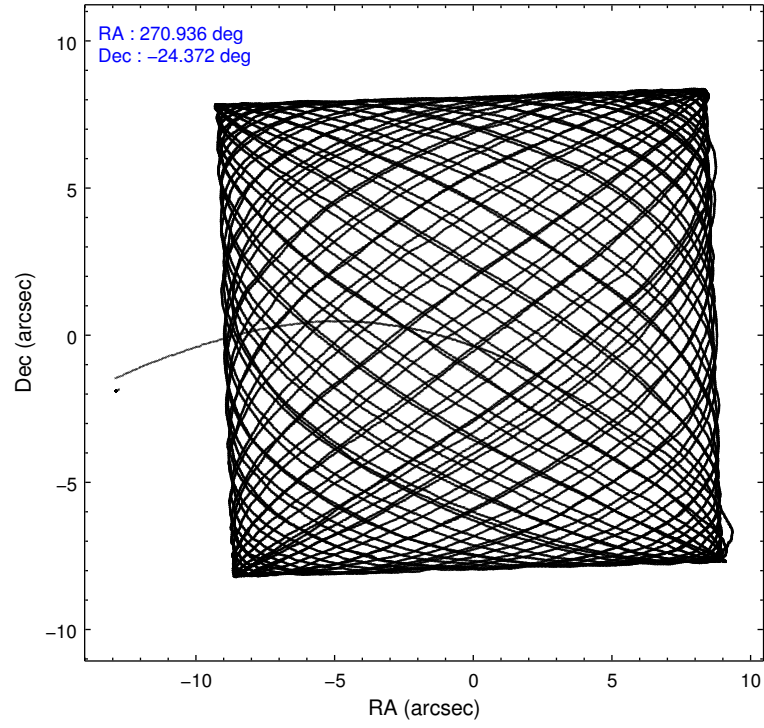
2.1.4 Events

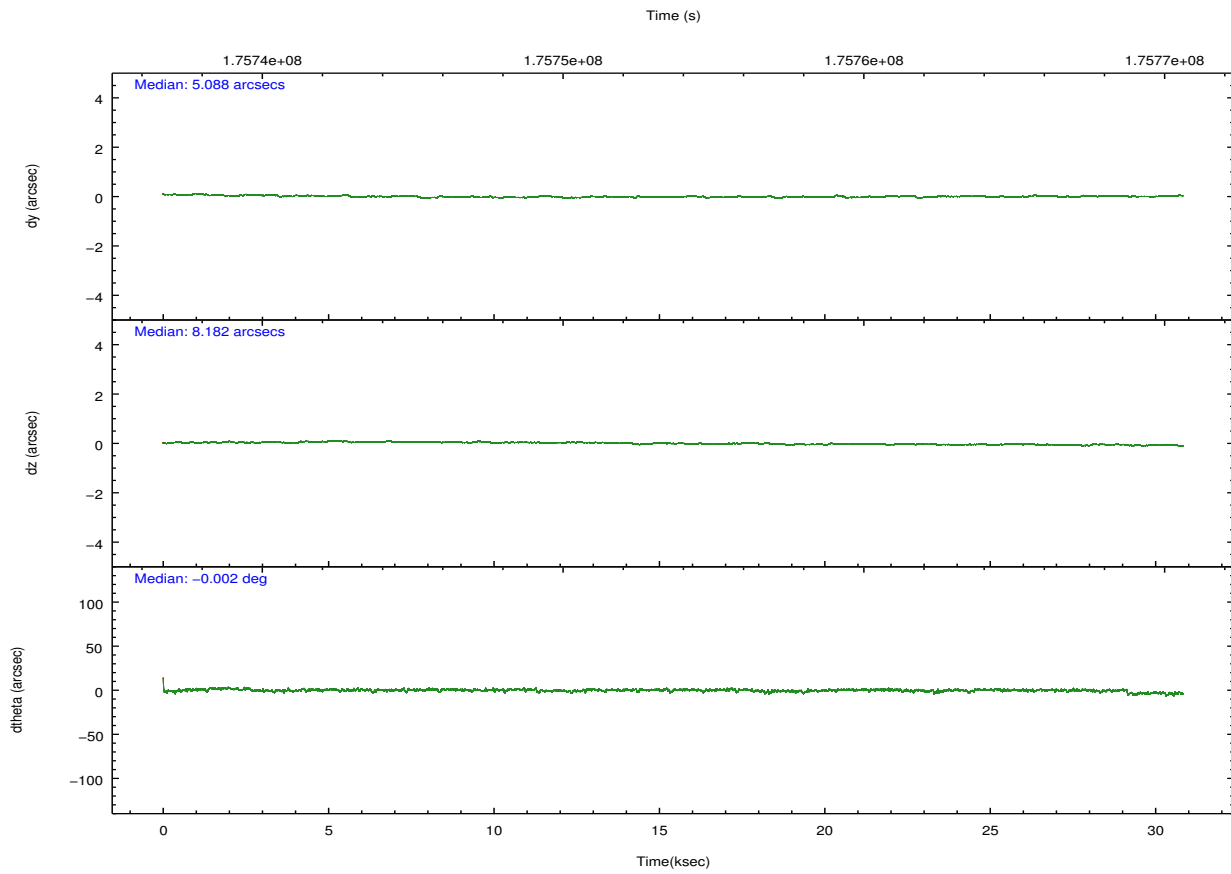
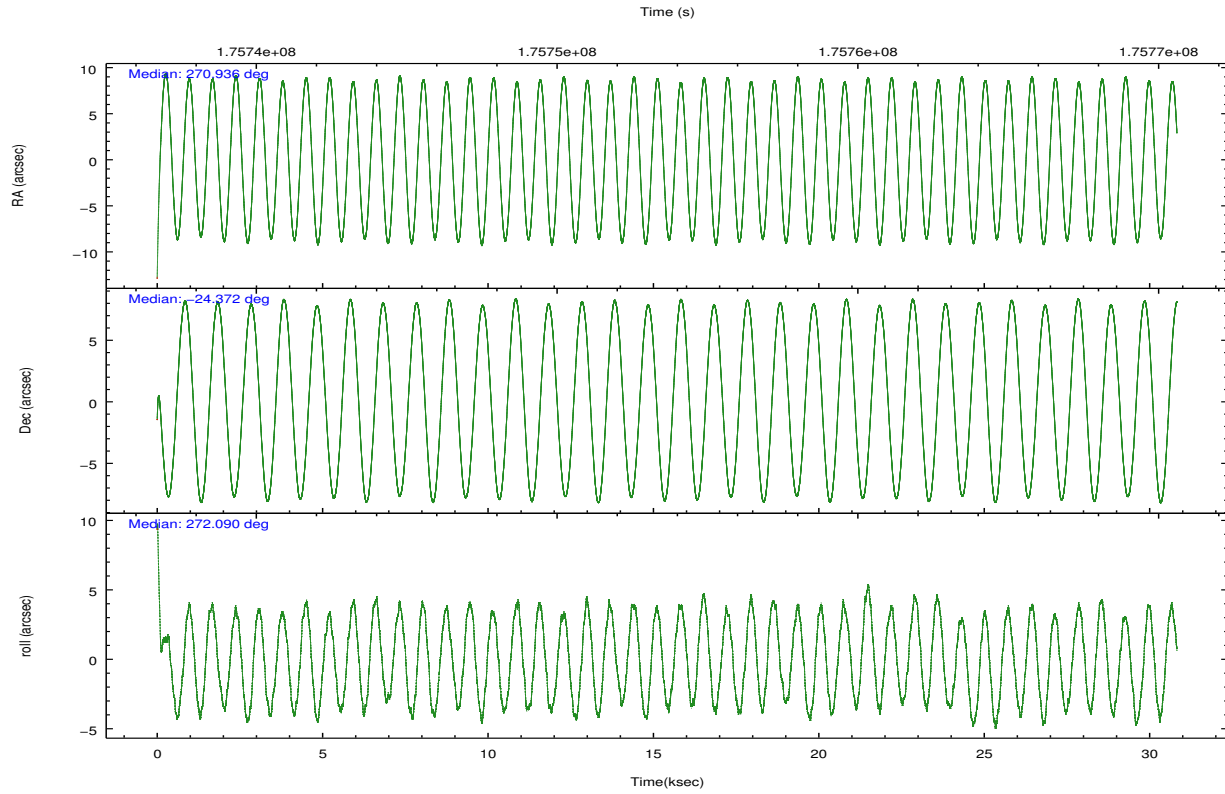
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	179082	176755	199394	204766	203902	260516	grade 0 events	12599	12690	16652	23916	16016	11898
rejected events	152149	147955	168637	164942	172001	146833		7%	7%	8%	11%	7%	4%
rejected %	84%	83%	84%	80%	84%	56%	grade 1 events	110	86	139	510	124	240
								0%	0%	0%	0%	0%	0%
							grade 2 events	5437	6244	5567	6381	6111	22989
								3%	3%	2%	3%	2%	8%
							grade 3 events	2297	2388	2249	2612	2386	10360
								1%	1%	1%	1%	1%	3%
							grade 4 events	2254	2516	2320	2579	2405	10313
								1%	1%	1%	1%	1%	3%
							grade 5 events	7296	7720	7182	8305	8488	23749
								4%	4%	3%	4%	4%	9%
							grade 6 events	4353	4969	3975	4339	4989	58157
								2%	2%	1%	2%	2%	22%
							grade 7 events	144736	140142	161310	156124	163383	122810
								80%	79%	80%	76%	80%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	270.920027	270.9361219418931	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.349246	-24.37241618814668	Alternating exposures requested	N	N
[deg] Pointing Roll	271.882629	272.0979550386129	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	175738839.184000	175737671.06376			
Observation start date	2003-07-28T00:19:35	2003-07-28T00:01:11			
[s] Observation end time (MET)	175769065.184000	175769998.02764			
Observation end date	2003-07-28T08:43:21	2003-07-28T08:59:58			
Read mode	TIMED	TIMED			

2.3 Aspect





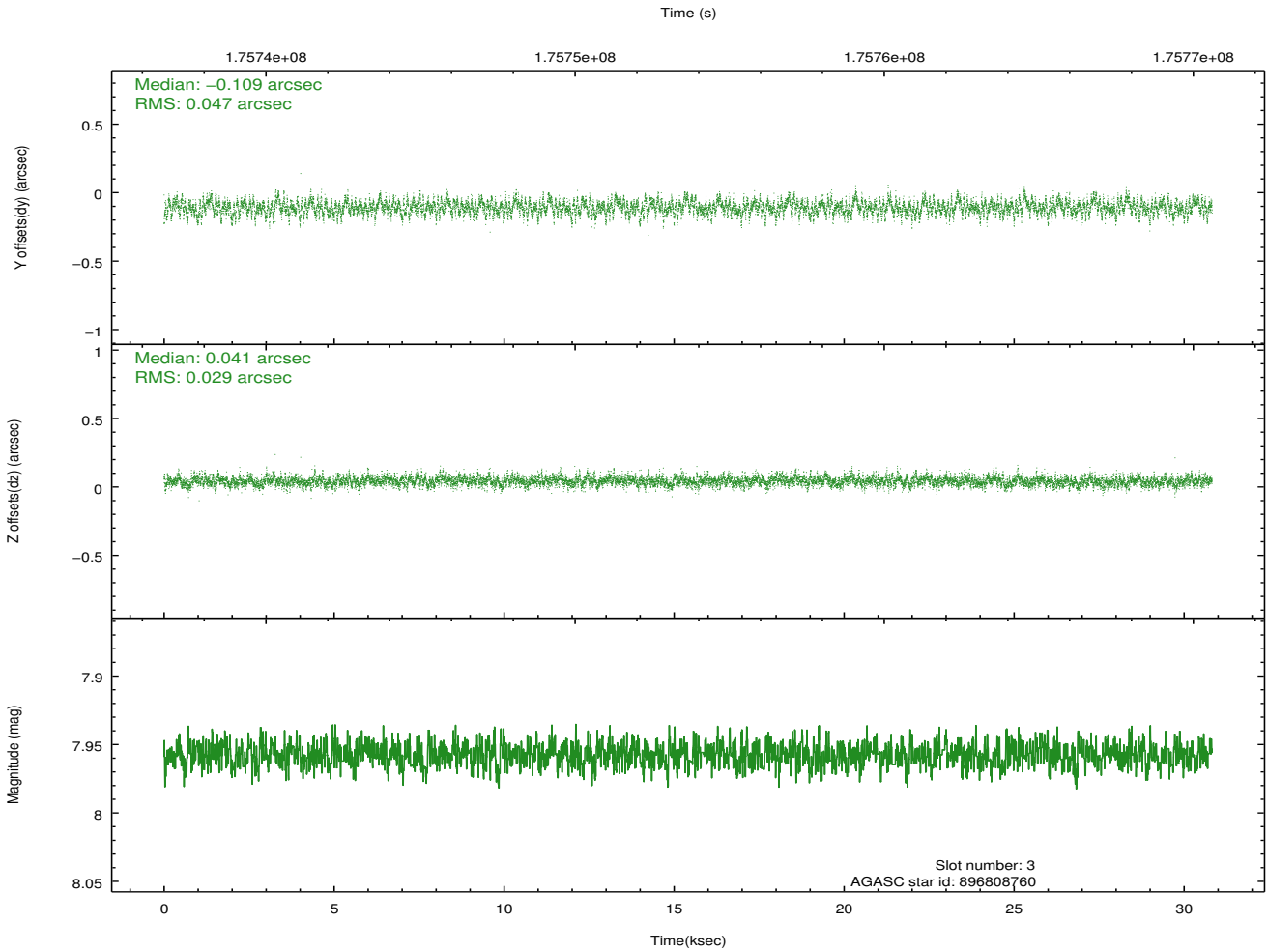
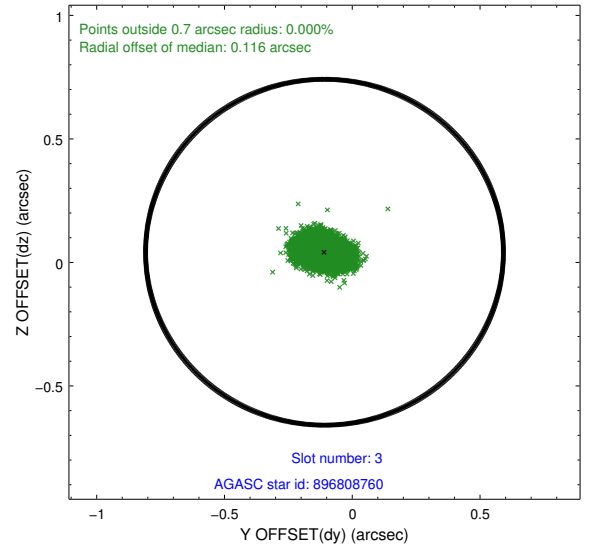
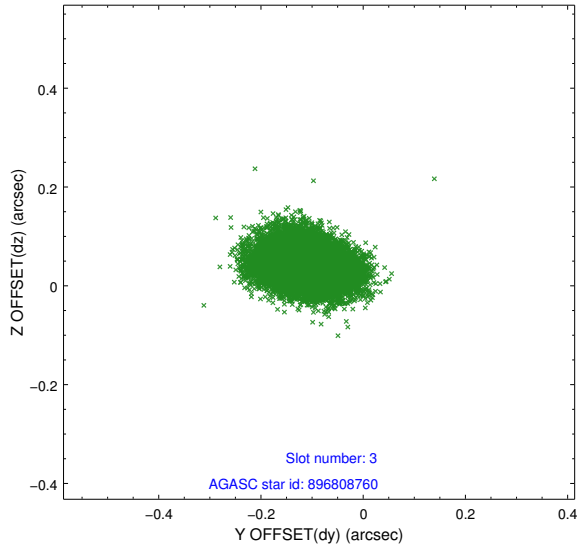
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	7519	-0.135	-0.061	0.010	0.021	0.000000	0.000000	-759.67	-838.02
1	FID	ACIS-I-4	7.19	7518	0.073	0.076	0.010	0.030	0.000000	0.000000	2154.58	1068.24
2	FID	ACIS-I-6	7.25	7519	-0.037	0.048	0.012	0.037	0.000000	0.000000	400.61	1710.48
3	GUIDE	896808760	7.96	15034	-0.109	0.041	0.058	0.098	271.232719	-23.698206	-2307.54	1107.06
4	GUIDE	896807552	9.22	15027	0.052	-0.009	0.108	0.169	271.624054	-24.159158	-602.37	2333.63
5	GUIDE	897321504	8.81	15035	0.081	-0.060	0.094	0.151	270.176705	-24.677132	1107.06	-2468.93
6	GUIDE	897321352	7.41	15036	-0.040	0.016	0.045	0.079	270.295938	-25.001856	2286.47	-2112.27
7	GUIDE	897320616	8.75	15034	0.016	0.012	0.064	0.103	271.238620	-24.710058	1333.91	998.82

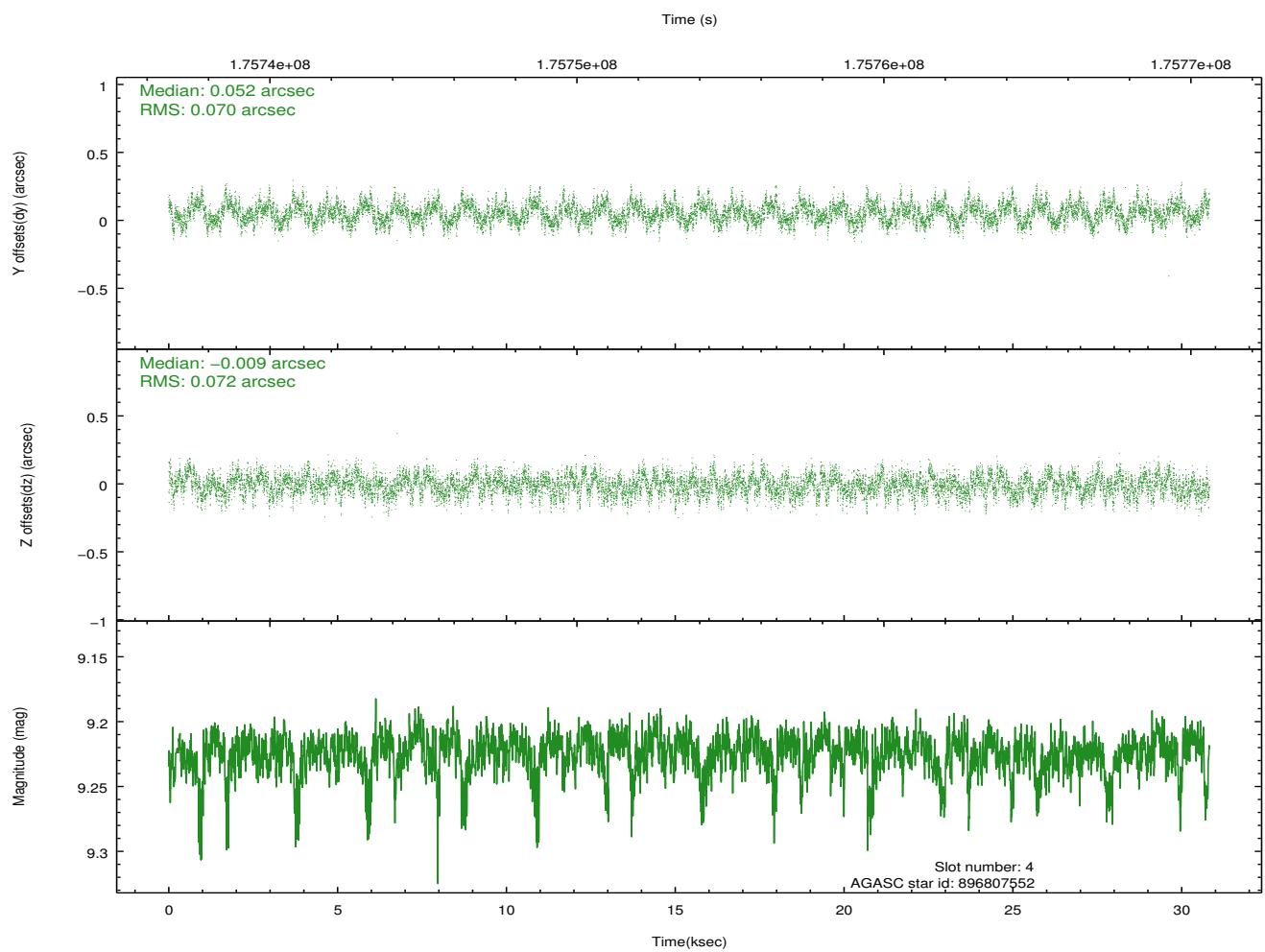
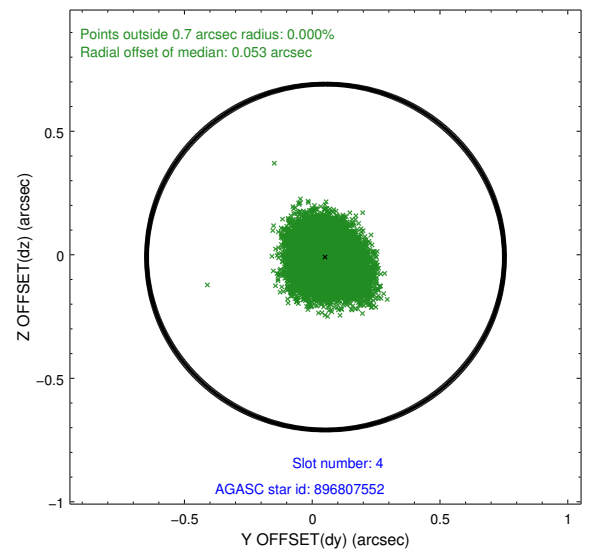
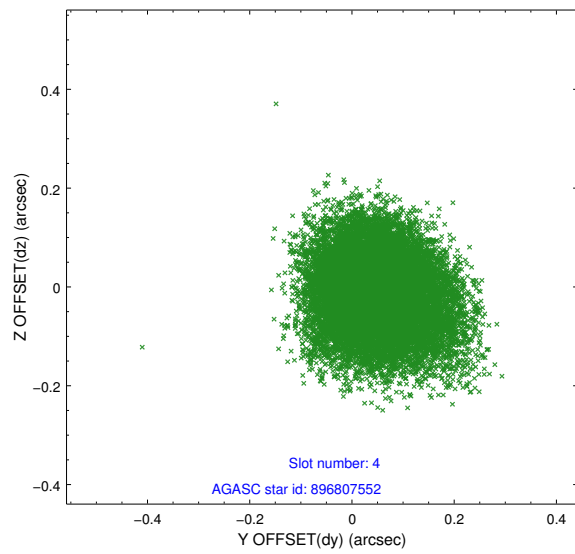
∞

2.4 Star Slots

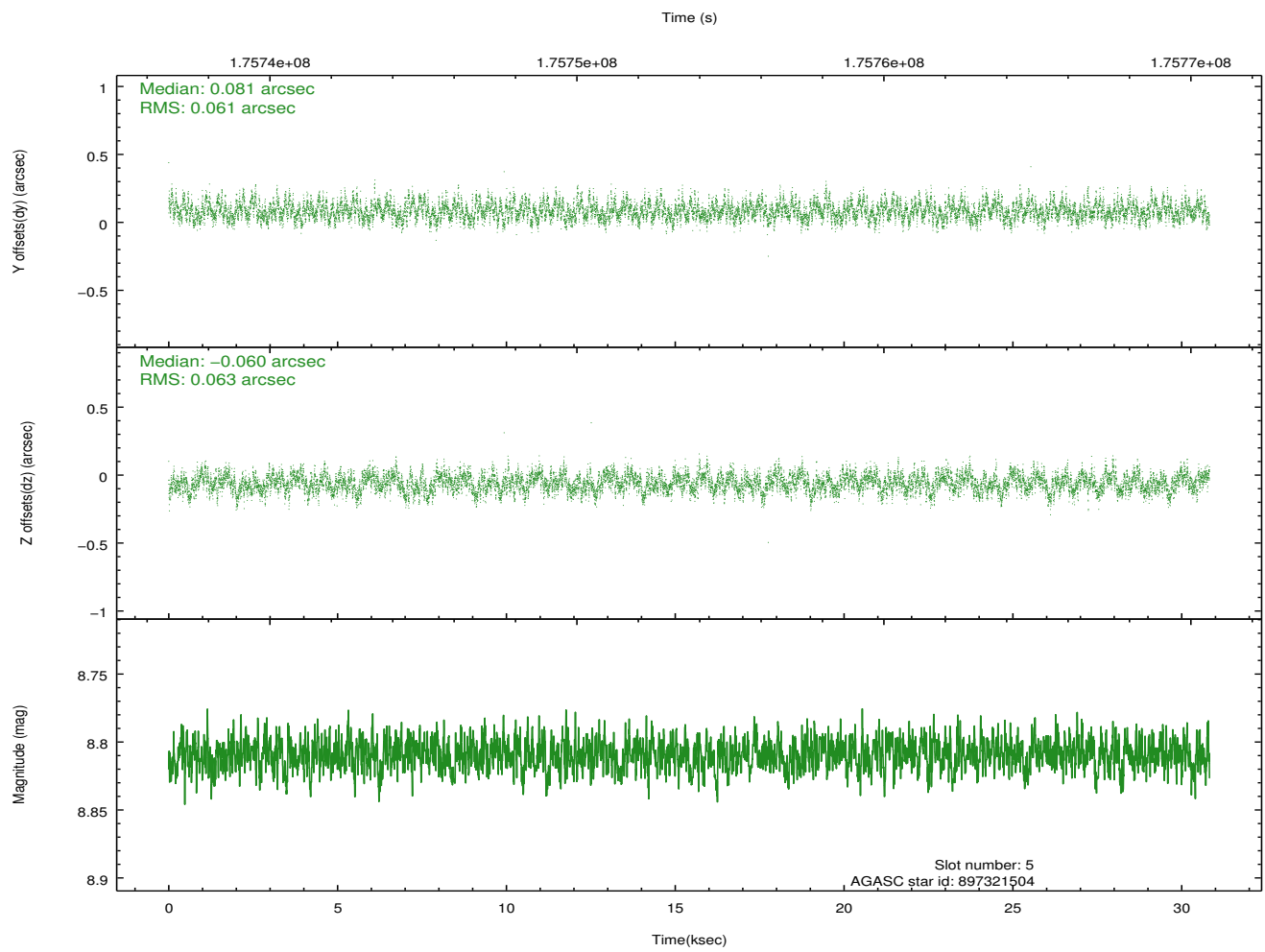
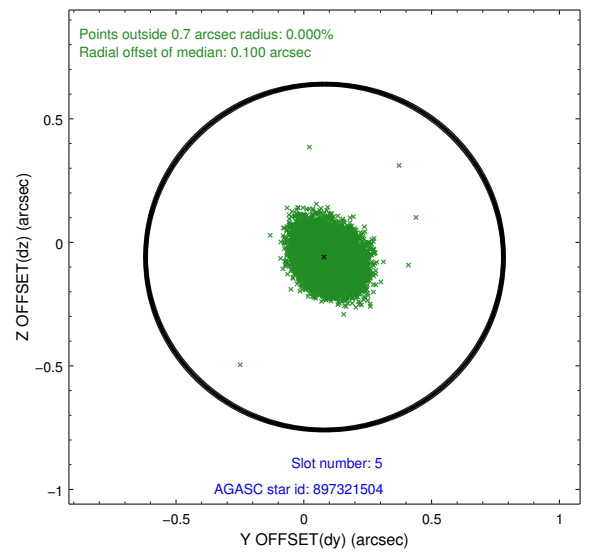
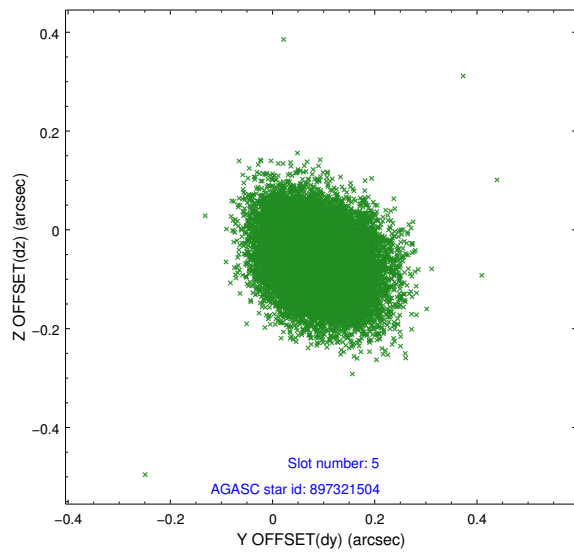
2.4.1 Slot 3



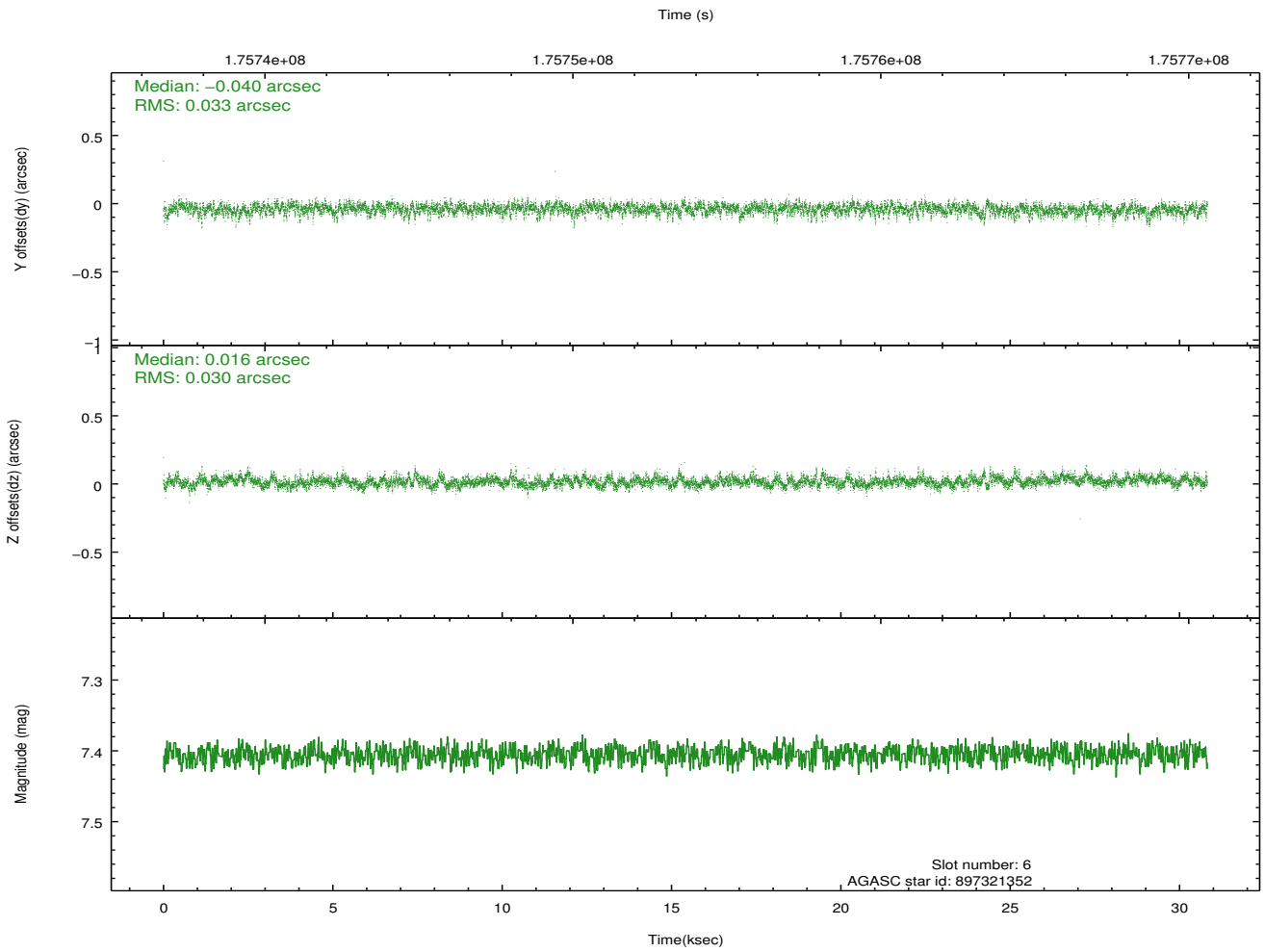
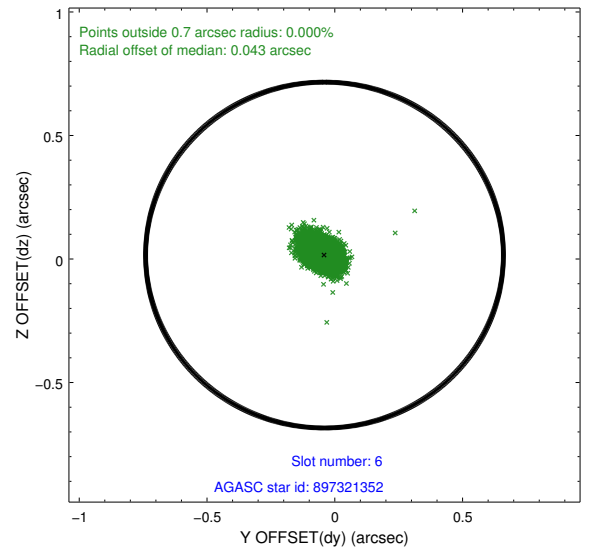
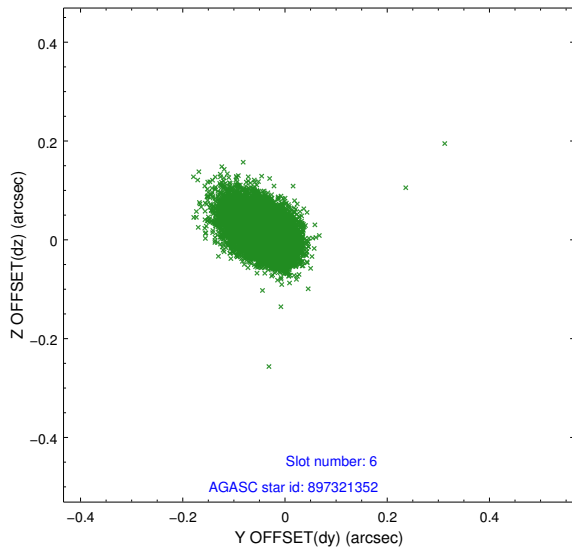
2.4.2 Slot 4



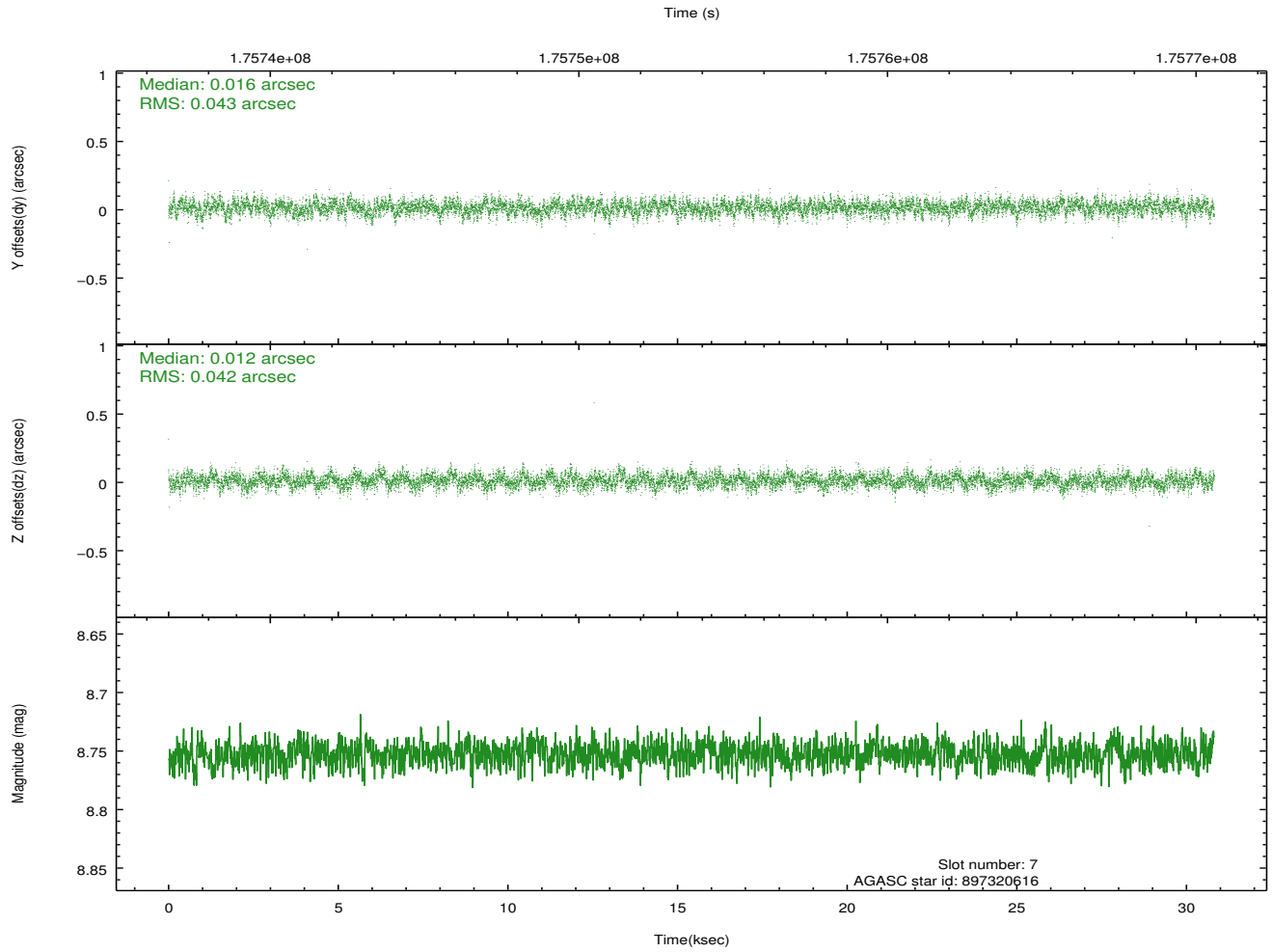
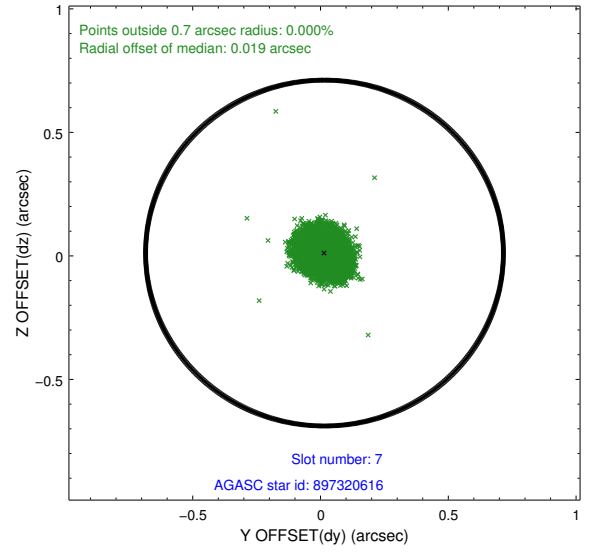
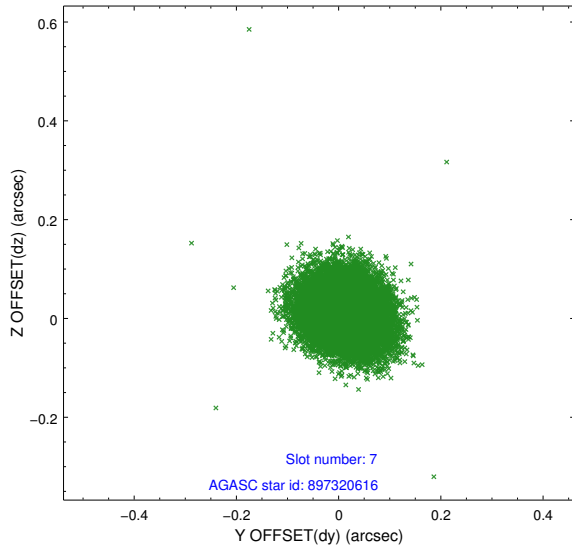
2.4.3 Slot 5



2.4.4 Slot 6

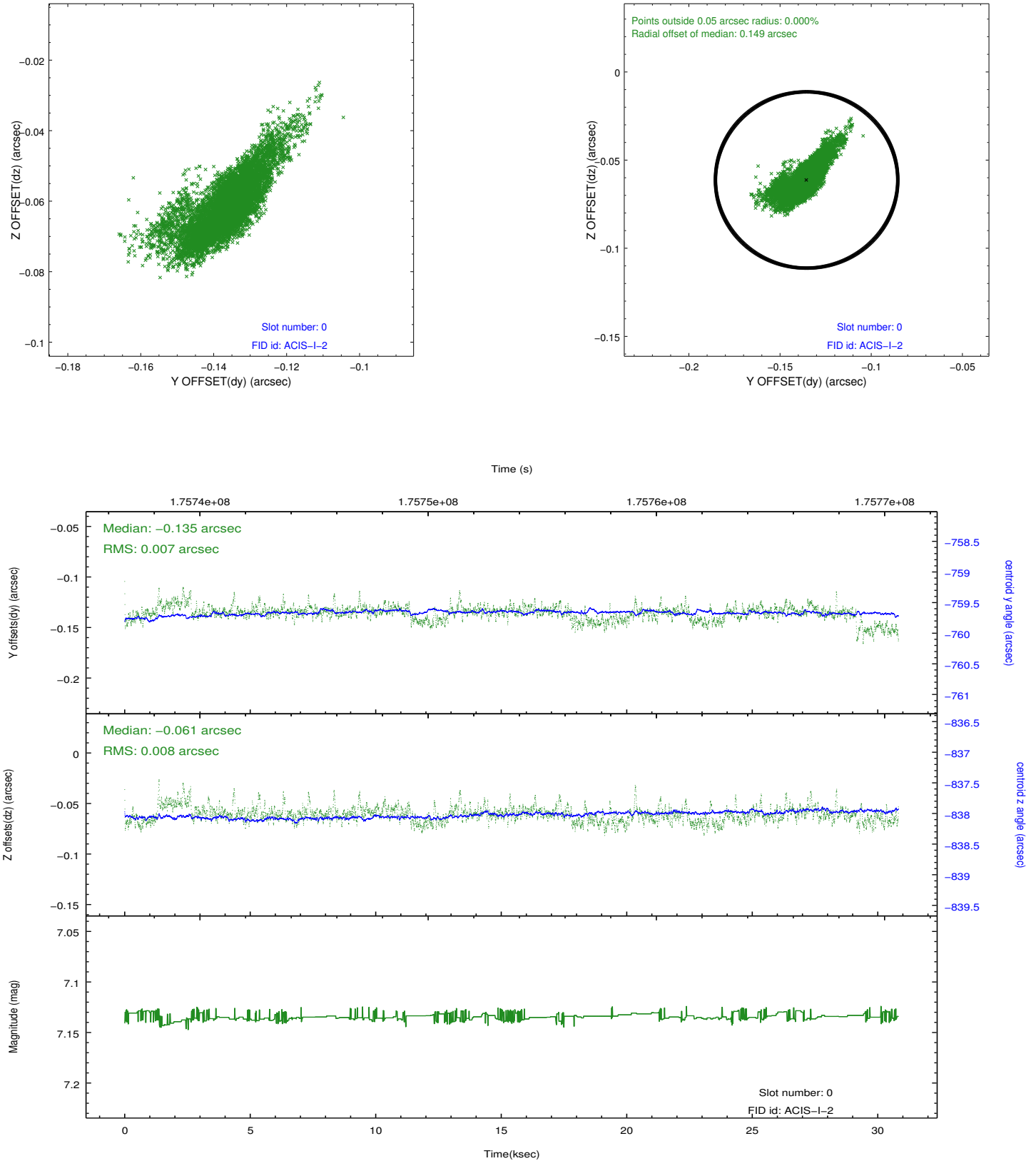


2.4.5 Slot 7

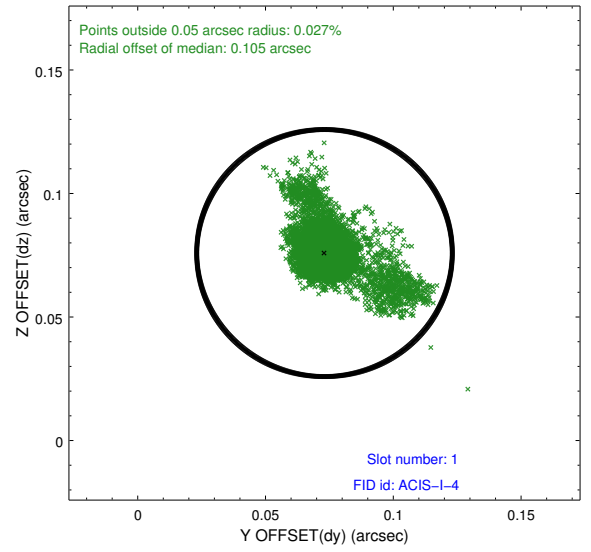
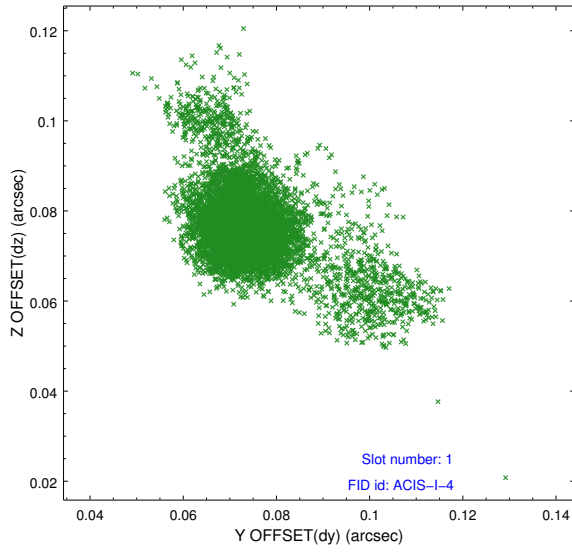


2.5 FID Slots

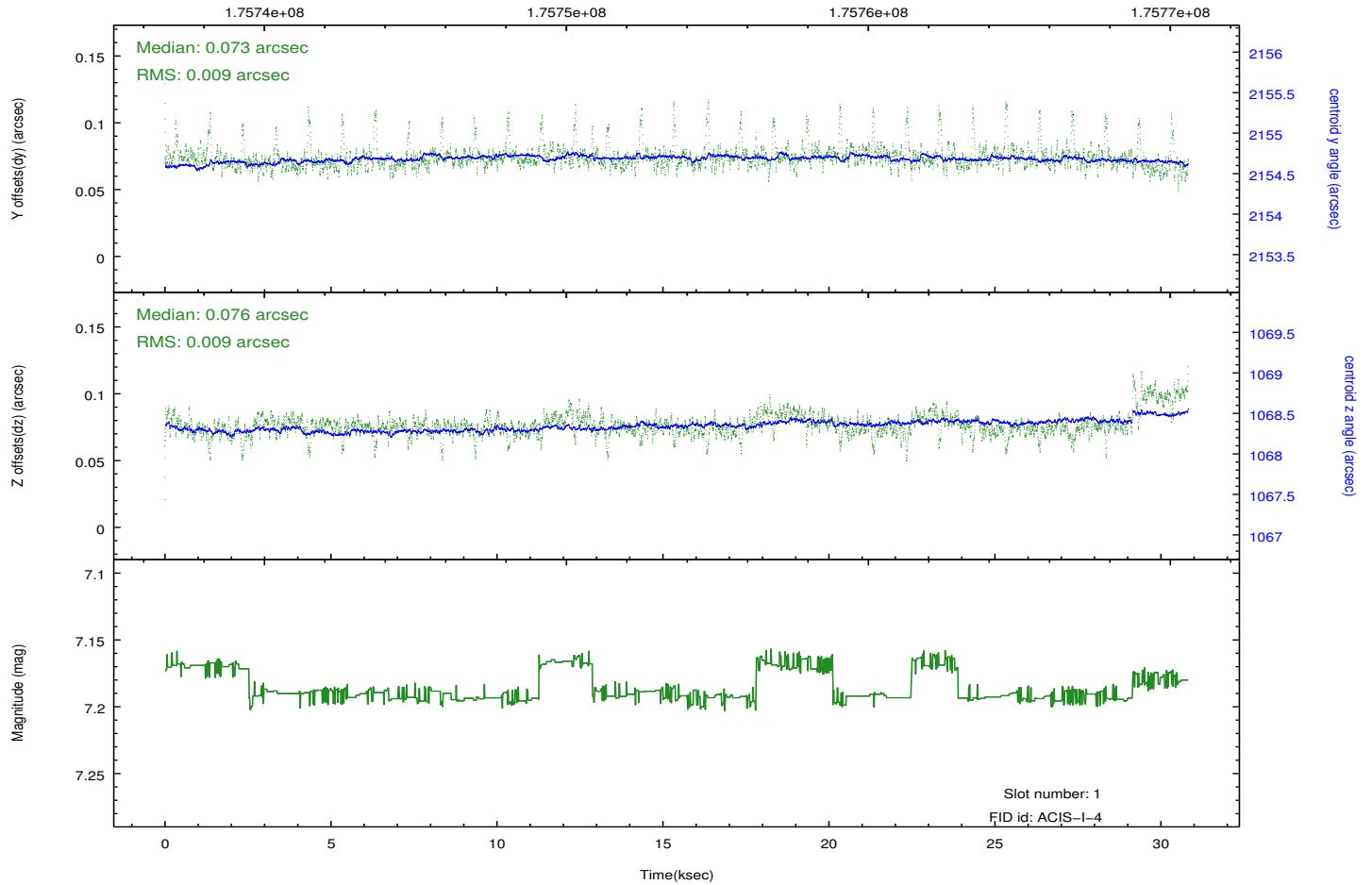
2.5.1 Slot 0



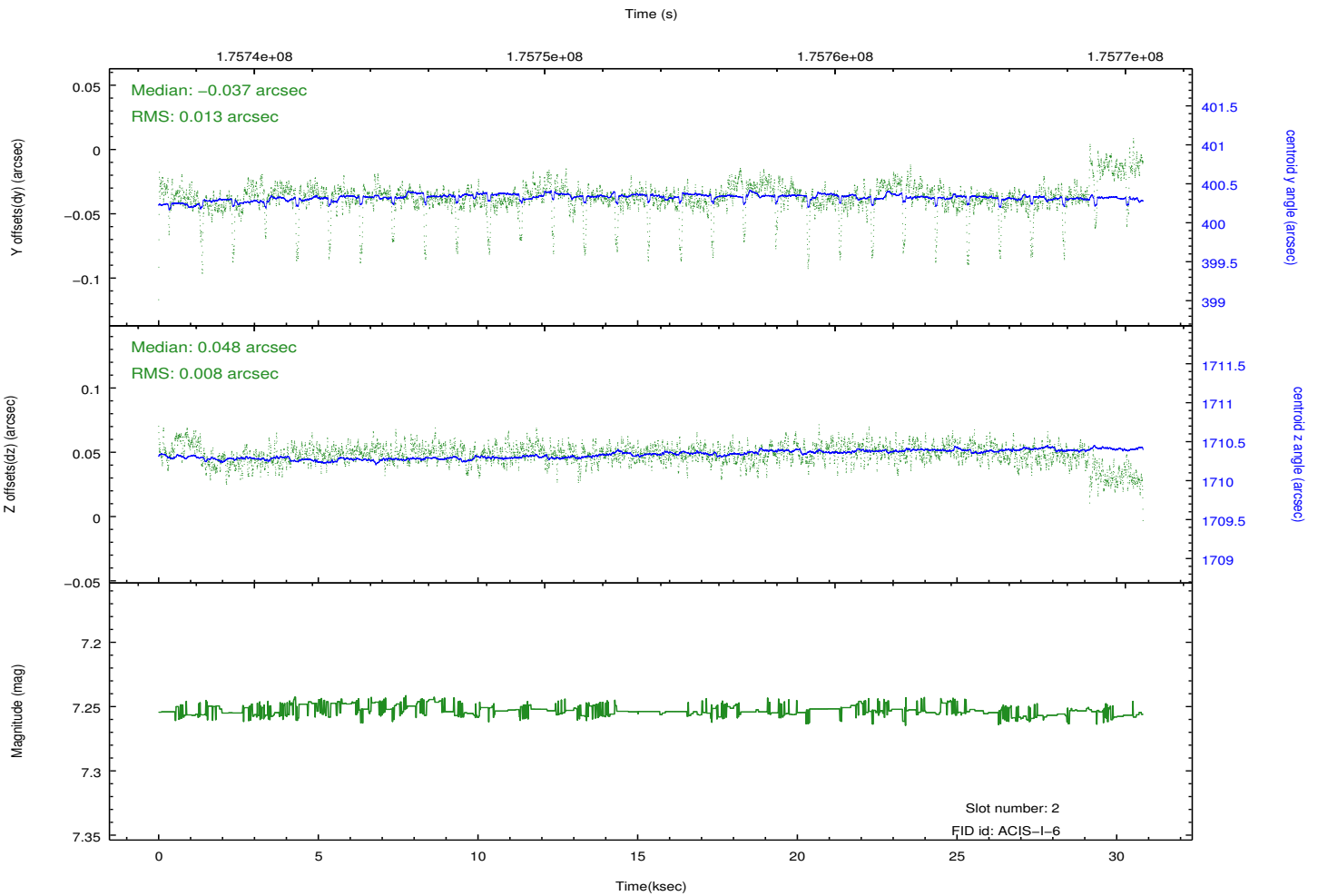
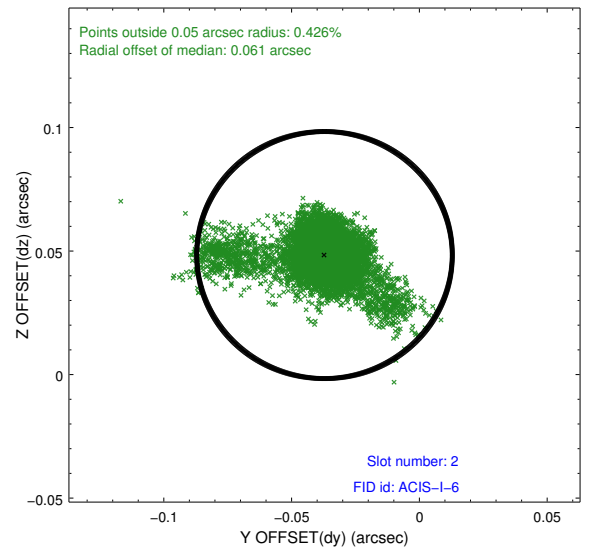
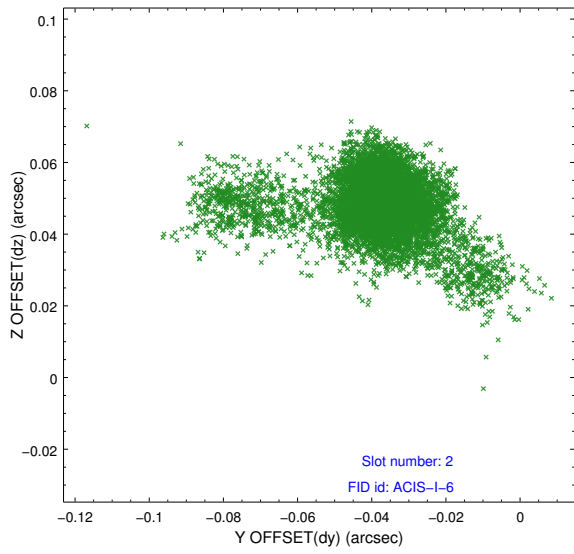
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.188

A.2 Comments