

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15189 - L2 Version 2
Chandra X-Ray Center

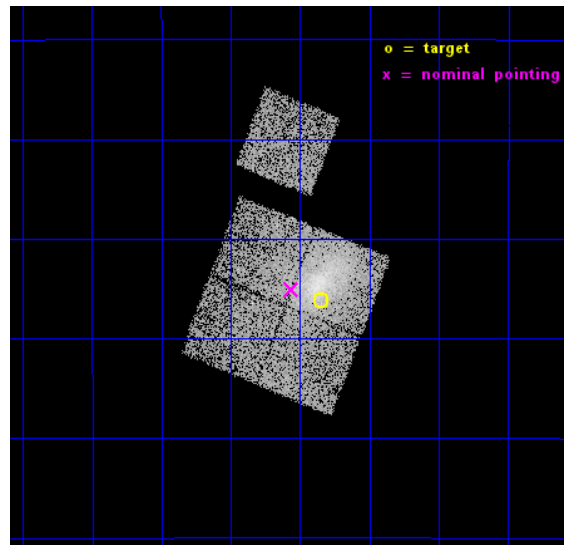
L2 Processing Date : Dec 1 2014

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1 Front

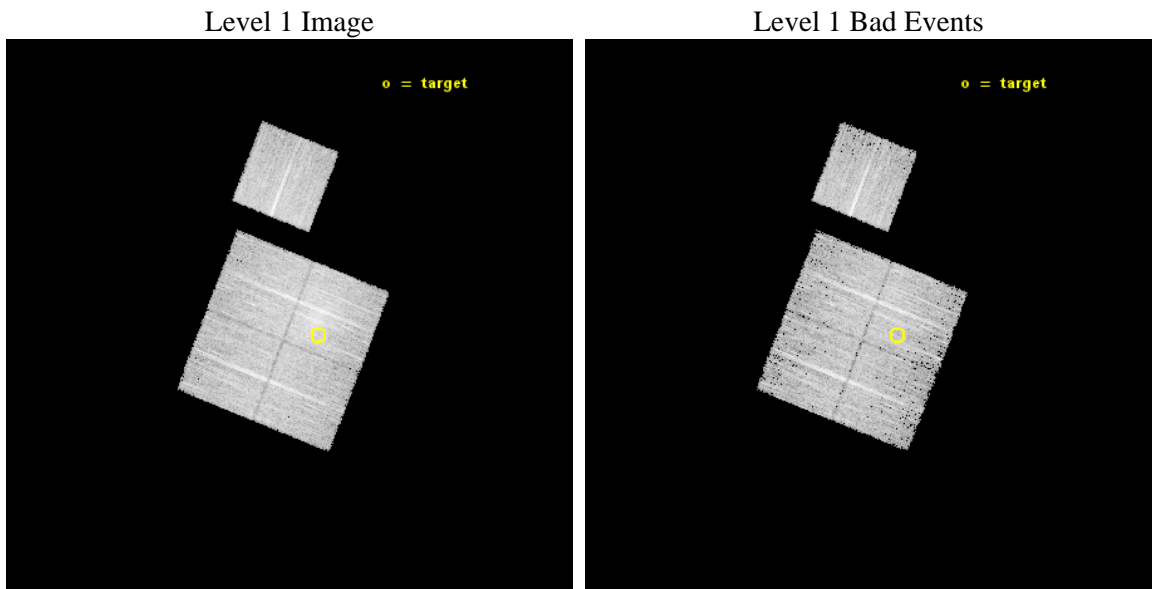
seq_num	801314	Sequence number
obs_id	15189	Observation id
title	X-ray Properties of Massive Clusters in the Local Universe	Proposa
observer	Dr. Steve Murray	Principal investigator
object	G275.21+43.92	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.5875	Observer's specified target RA [deg]
dec_targ	-14.602833	Observer's specified target Dec [deg]
ra_nom	172.64047315224	Nominal RA [deg]
dec_nom	-14.584681126646	Nominal Dec [deg]
roll_nom	21.554295769294	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10081.200077534	Sum of GTIs [s]
livetime	9949.4817768492	Livetime [s]
ontime0	10078.059077203	Sum of GTIs [s]
ontime1	10081.200077534	Sum of GTIs [s]
ontime2	10081.200077534	Sum of GTIs [s]
ontime3	10081.200077534	Sum of GTIs [s]
ontime6	10081.200077534	Sum of GTIs [s]
l2events	39456	Number of level 2 events



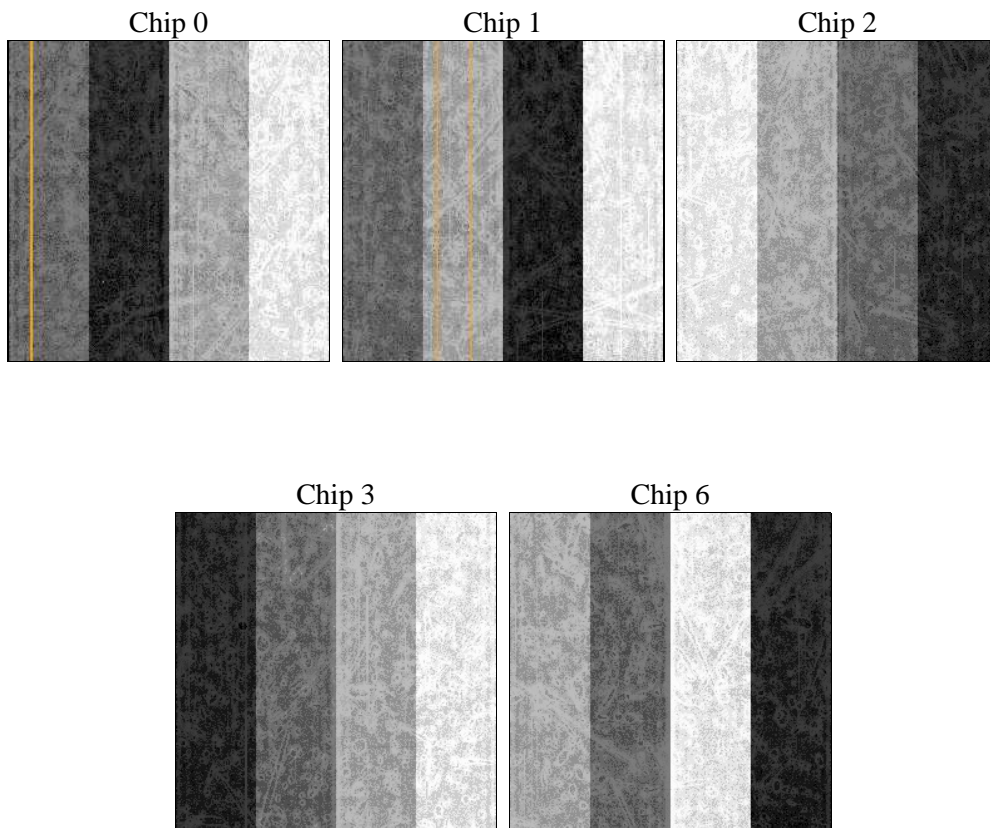
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10081.200077534	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	10078.059077203	Sum of GTIs [s]
date	2014-12-01T19:13:07	Date and time of file creation	ontime1	10081.200077534	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10081.200077534	Sum of GTIs [s]
			ontime3	10081.200077534	Sum of GTIs [s]
			ontime6	10081.200077534	Sum of GTIs [s]
			l1events	276081	Number of level 1 events

2.1.4 Events

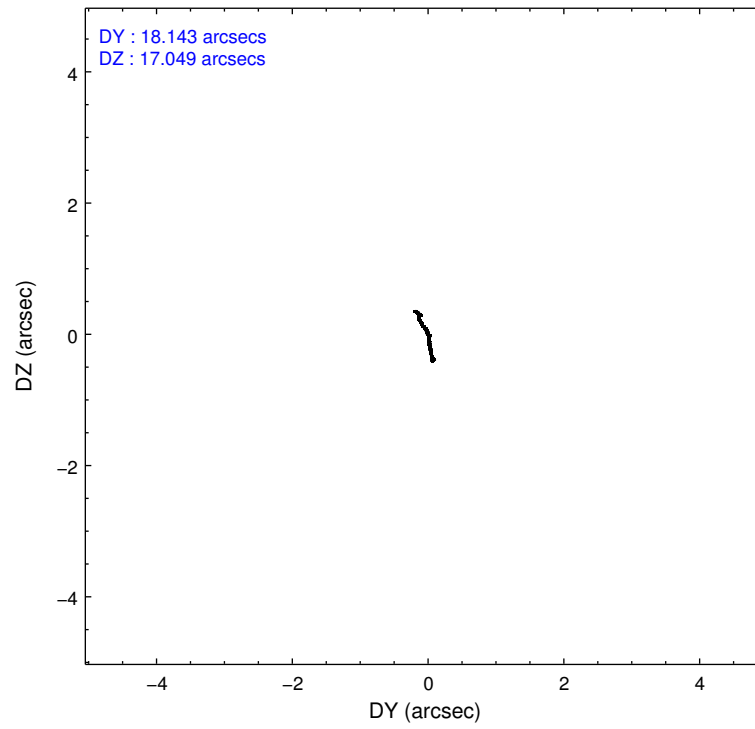
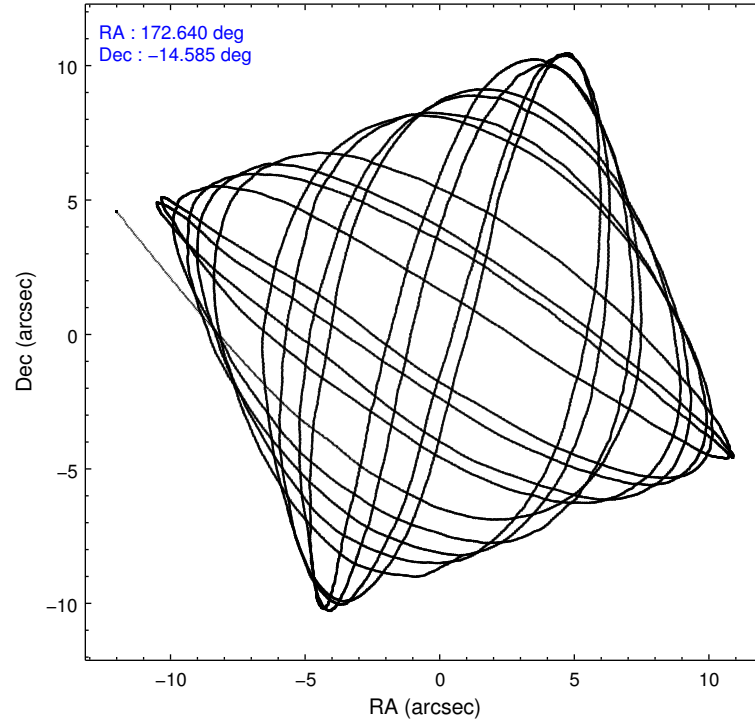
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	51273	49719	54536	65129	55424
rejected events	44527	41967	46605	49012	49042
rejected %	86%	84%	85%	75%	88%

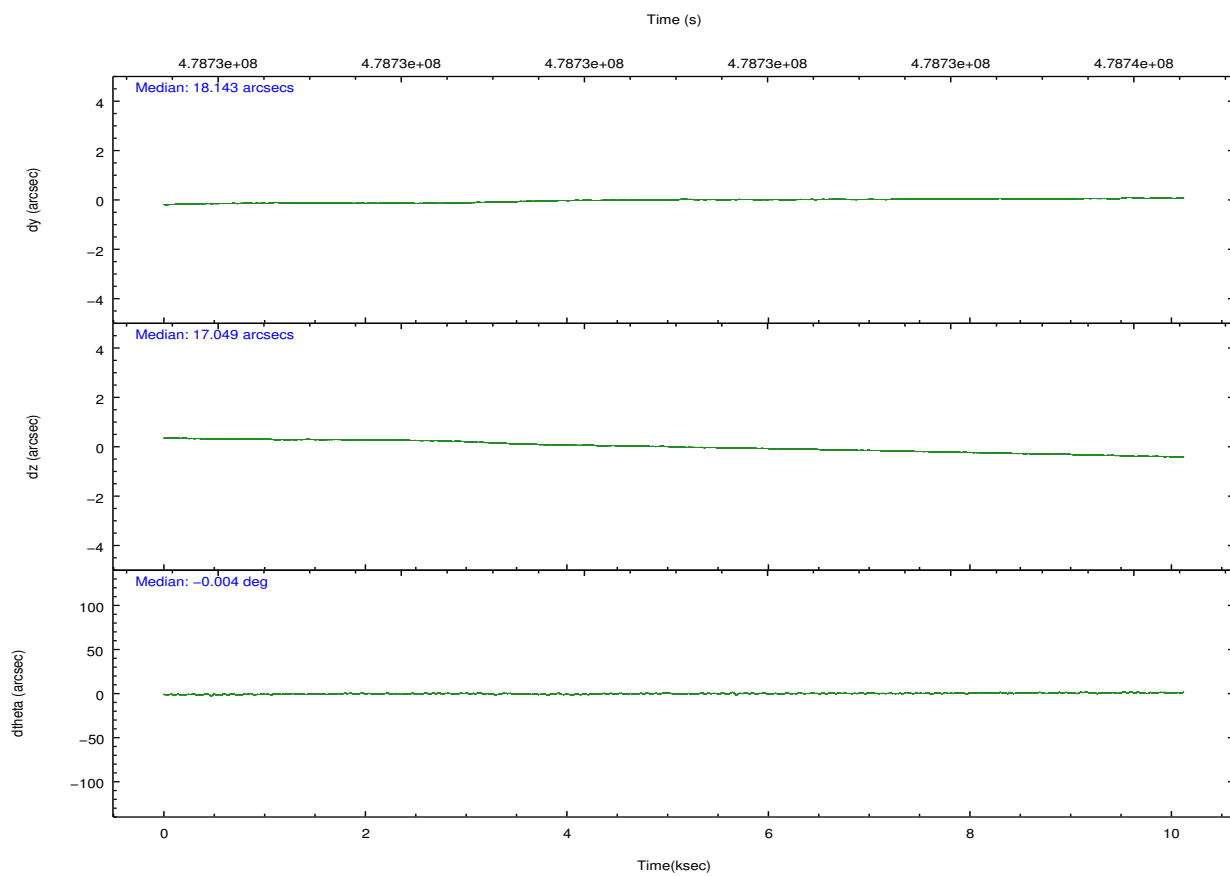
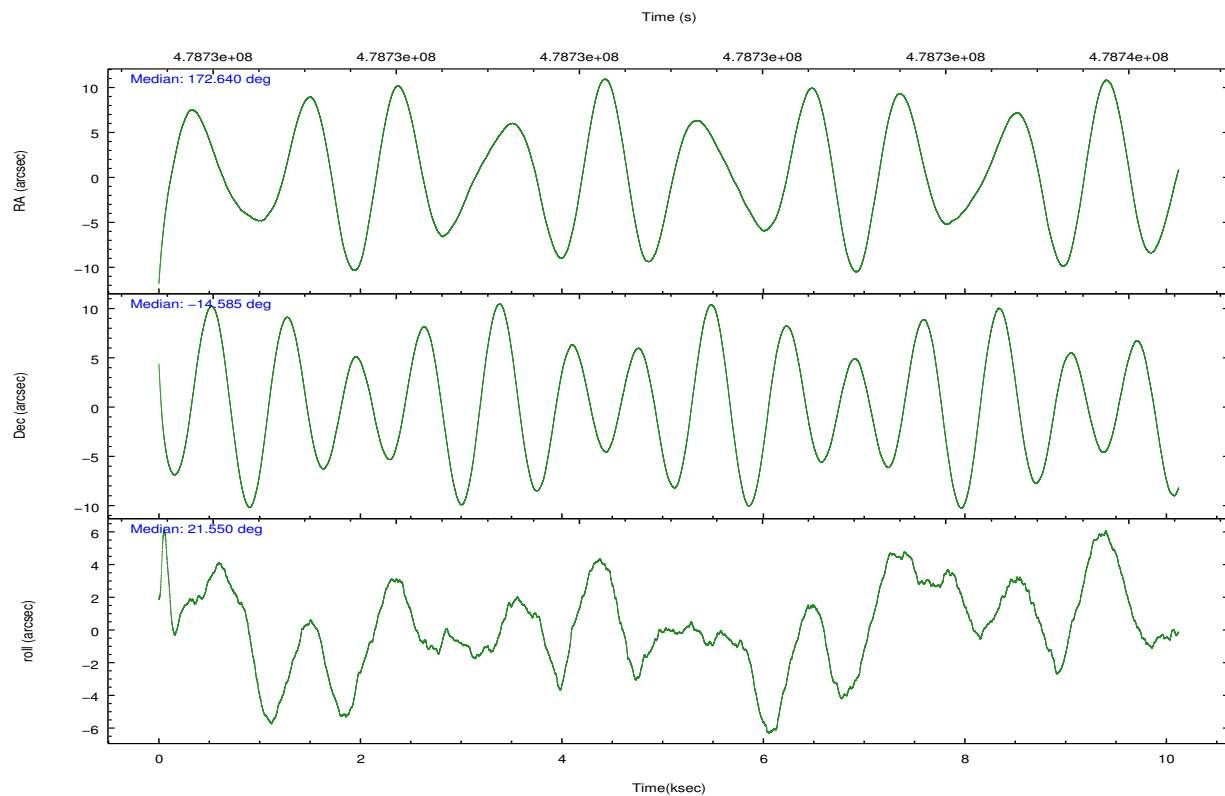
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2550	2952	3430	10282	2131
	4%	5%	6%	15%	3%
grade 1 events	29	42	44	65	21
	0%	0%	0%	0%	0%
grade 2 events	1636	1788	1738	2317	1446
	3%	3%	3%	3%	2%
grade 3 events	657	739	689	940	618
	1%	1%	1%	1%	1%
grade 4 events	610	722	709	1037	670
	1%	1%	1%	1%	1%
grade 5 events	2584	2688	2536	2939	2908
	5%	5%	4%	4%	5%
grade 6 events	1293	1553	1368	1544	1518
	2%	3%	2%	2%	2%
grade 7 events	41914	39235	44022	46005	46112
	81%	78%	80%	70%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	172.622913	172.6404731522402	CCD I2 on	Y	Y
[deg] Pointing Dec	-14.606269	-14.58468112664622	CCD I3 on	Y	Y
[deg] Pointing Roll	21.341177	21.55429576929414	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-230.592463	-230.5903706213692	CCD S3 on	N	N
[mm] SIM translation stage offset	-3	-3.002082381560513	CCD S4 on	N	N
[s] Observation start time (MET)	478726042.184000	478724840.12952	CCD S5 on	N	N
Observation start date	2013-03-03T19:26:15	2013-03-03T19:07:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478736042.184000	478736771.13017	On-chip summing requested	N	N
Observation end date	2013-03-03T22:12:55	2013-03-03T22:26:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



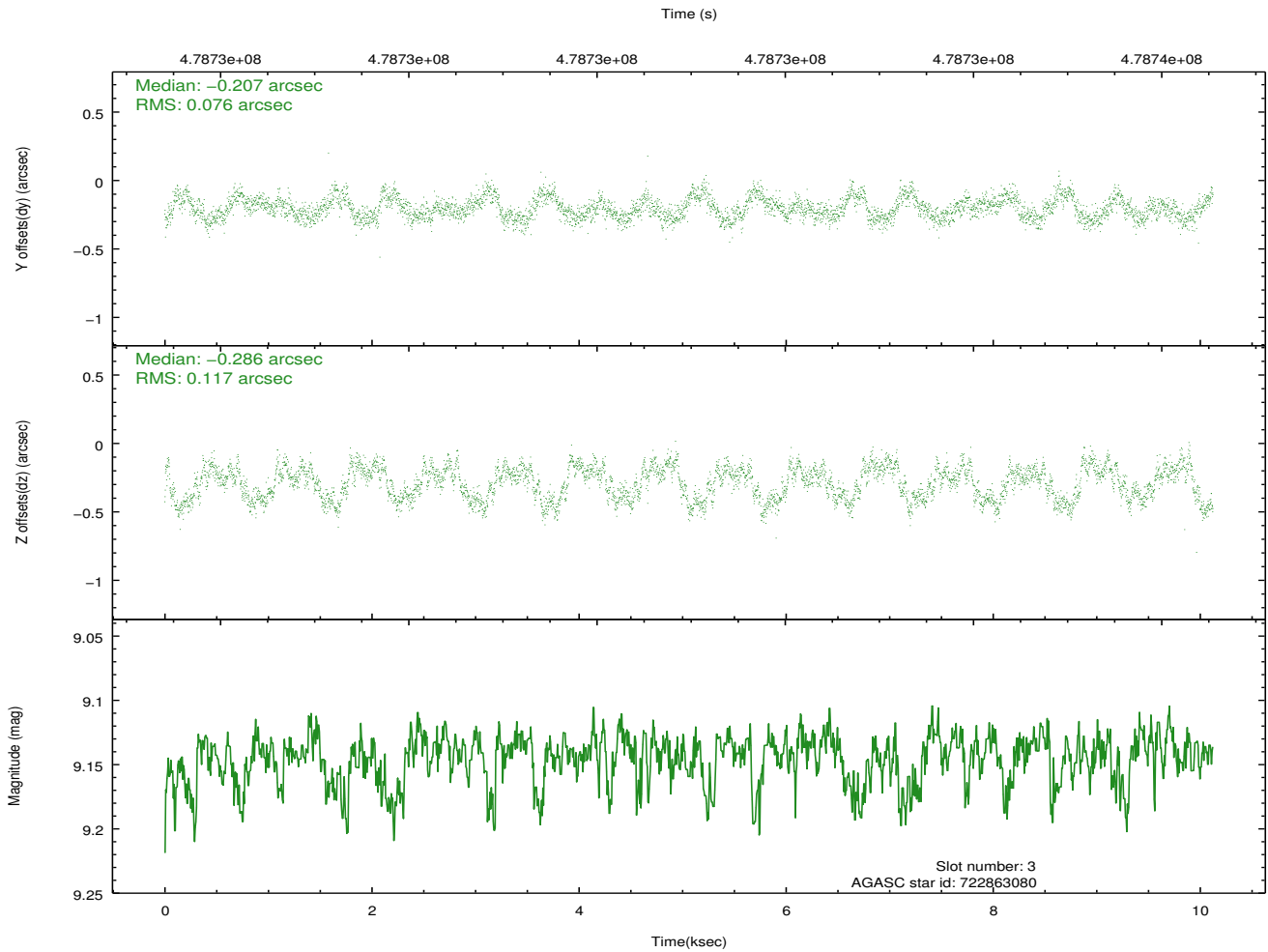
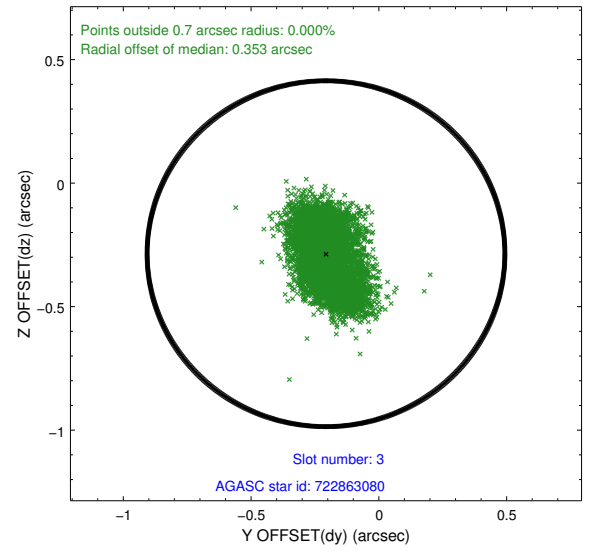
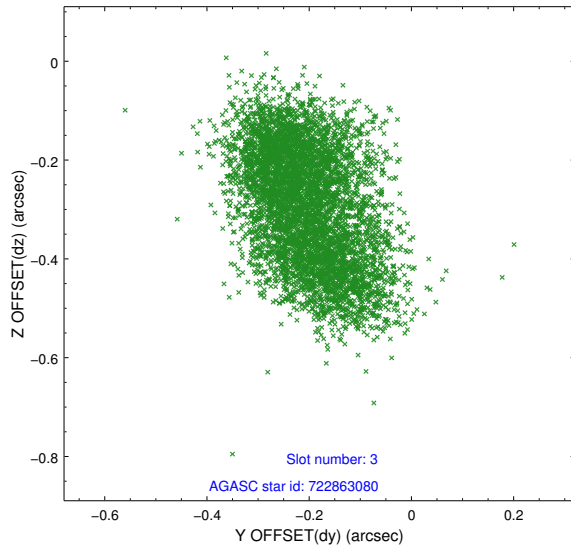


Slot Statistics

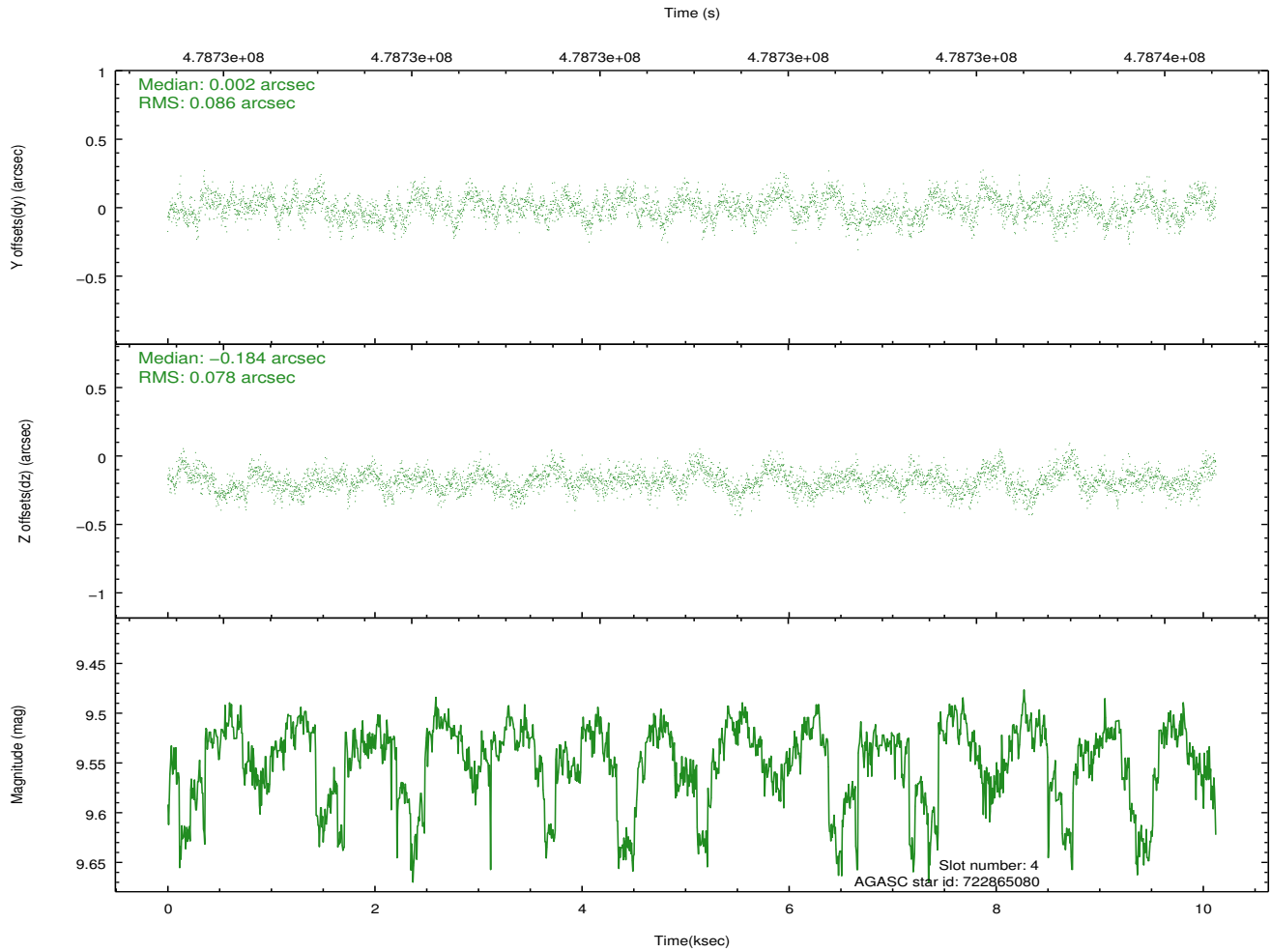
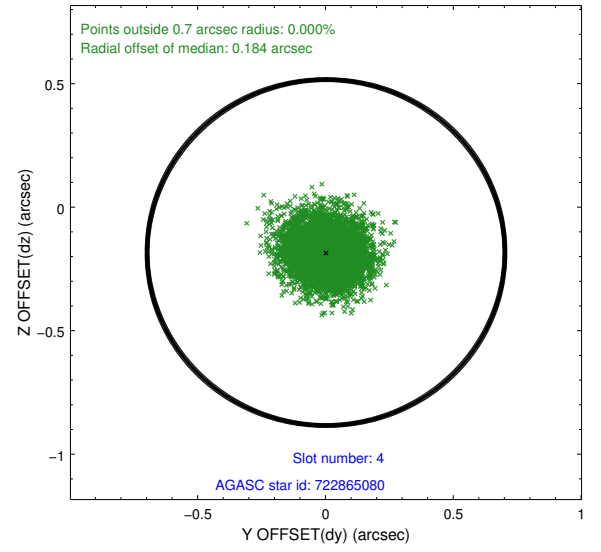
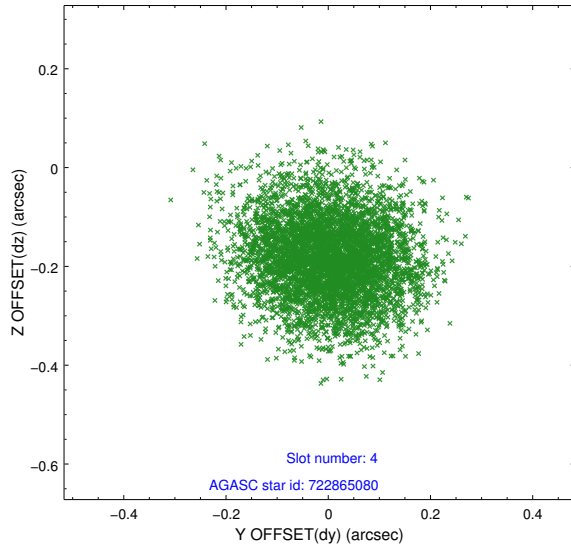
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	2469	0.053	0.018	0.009	0.015	0.000000	0.000000	921.29	-902.21
1	FID		ACIS-I-5	7.04	2469	-0.245	0.057	0.010	0.017	0.000000	0.000000	-1826.89	994.92
2	FID		ACIS-I-6	7.04	2469	0.101	-0.004	0.009	0.015	0.000000	0.000000	386.22	1640.04
3	GUIDE	used	722863080	9.14	4935	-0.207	-0.286	0.151	0.233	172.588232	-14.459470	80.06	536.67
4	GUIDE	used	722865080	9.54	4923	0.002	-0.184	0.125	0.199	173.295592	-14.810152	1912.62	-1538.32
5	GUIDE	used	722866176	9.68	4875	-0.110	0.071	0.144	0.234	173.139806	-14.184595	2232.92	755.73
6	GUIDE	used	797576528	9.09	4937	0.159	0.189	0.134	0.228	172.316371	-15.112296	-1654.50	-1309.48
7	GUIDE	used	797578040	9.41	4906	0.146	0.230	0.147	0.240	172.608699	-15.322154	-984.09	-2381.74

2.4 Star Slots

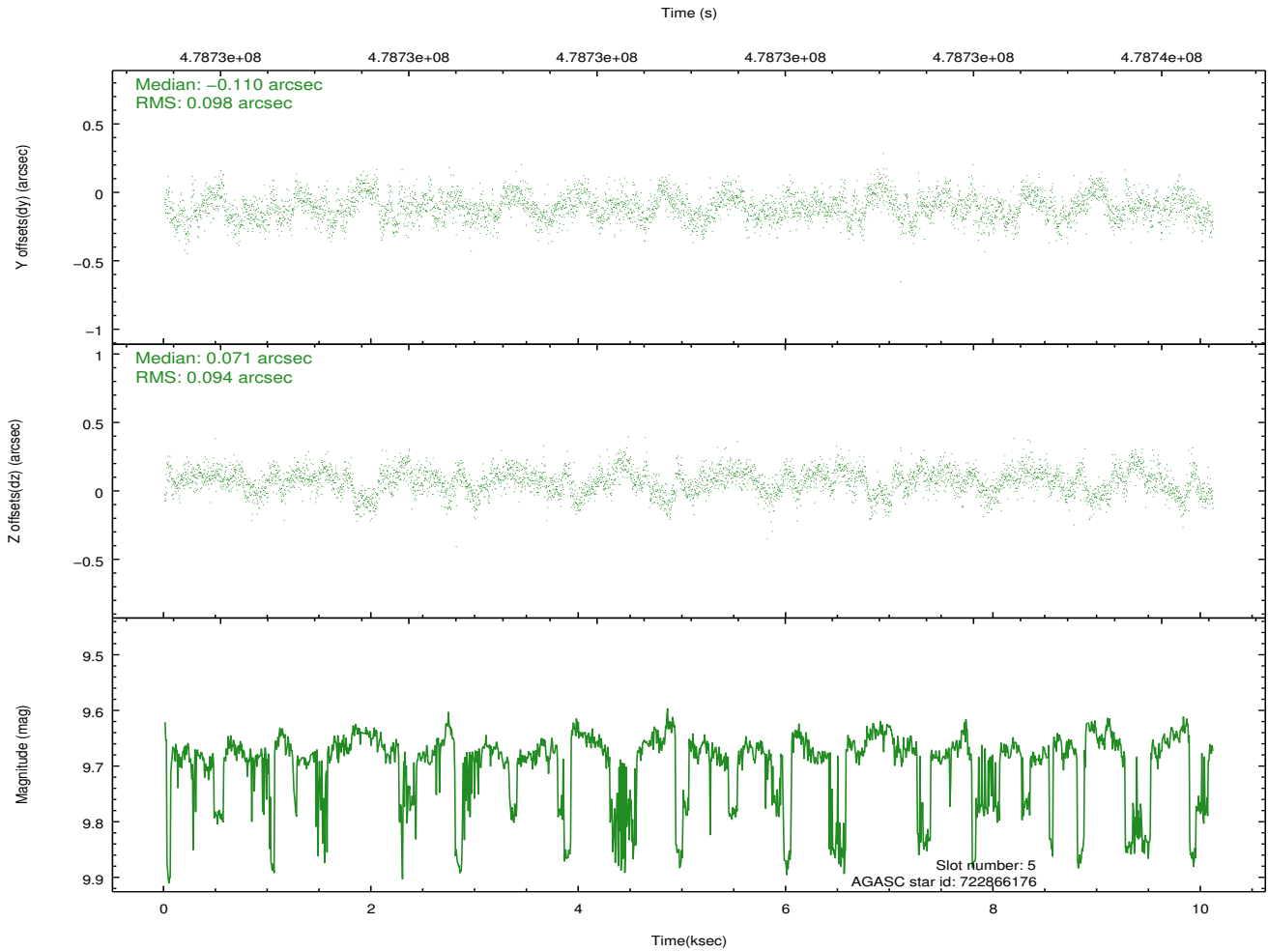
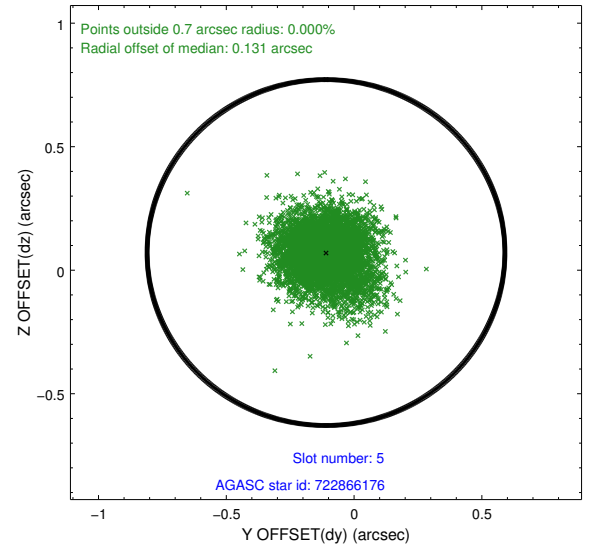
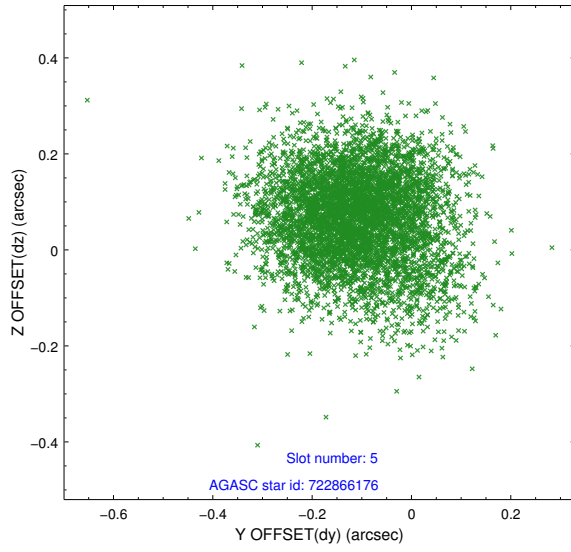
2.4.1 Slot 3



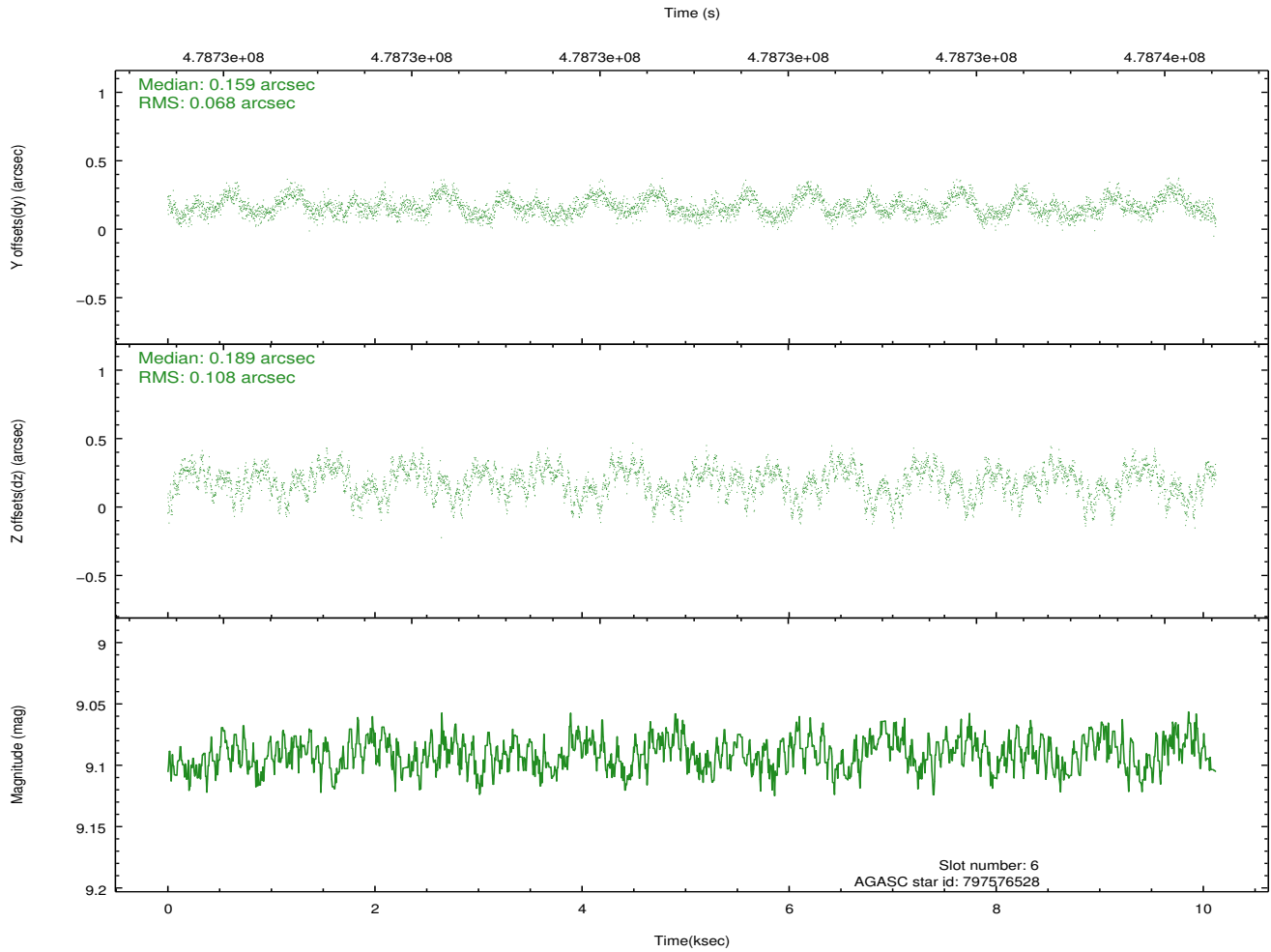
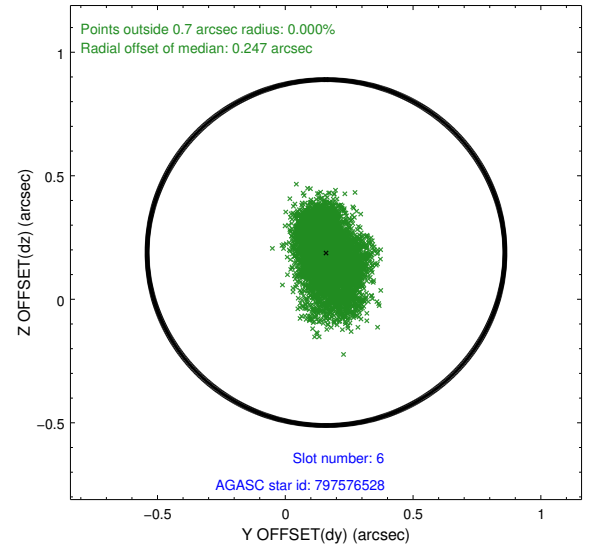
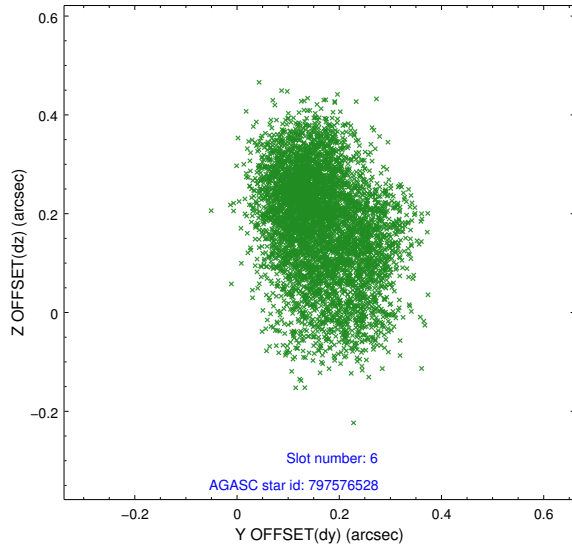
2.4.2 Slot 4



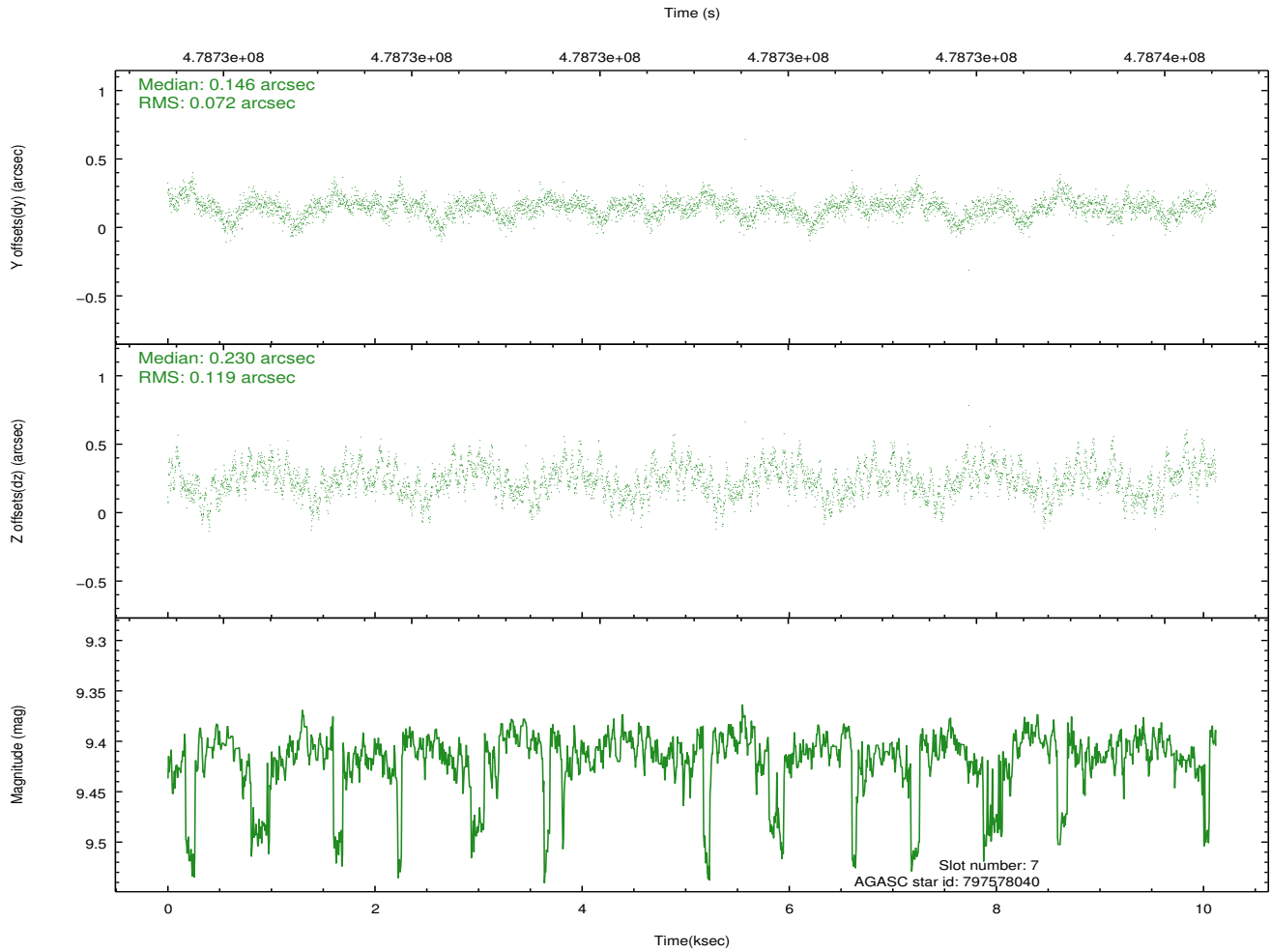
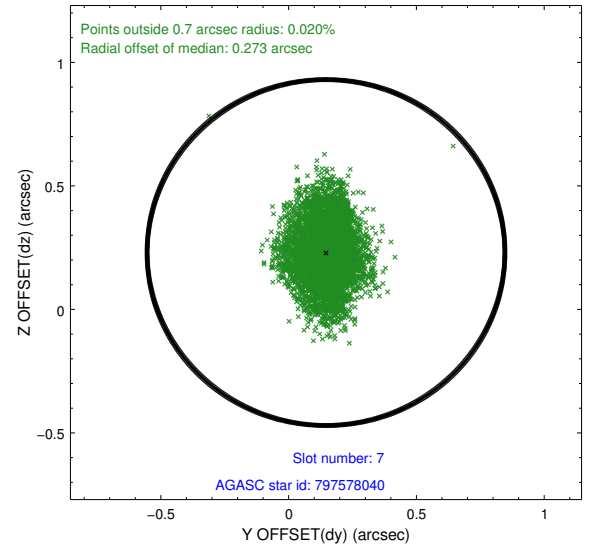
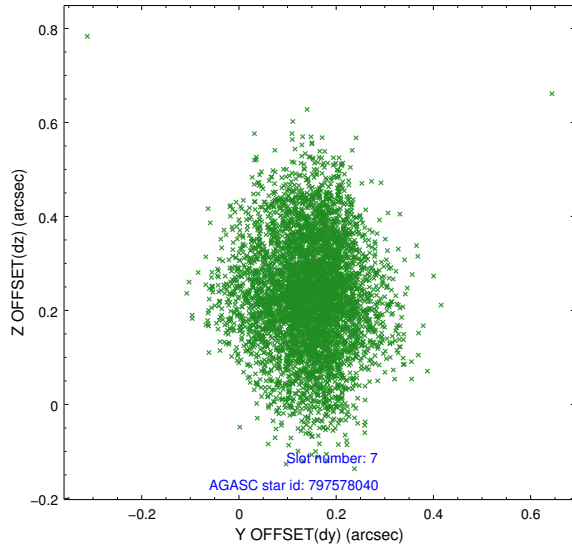
2.4.3 Slot 5



2.4.4 Slot 6

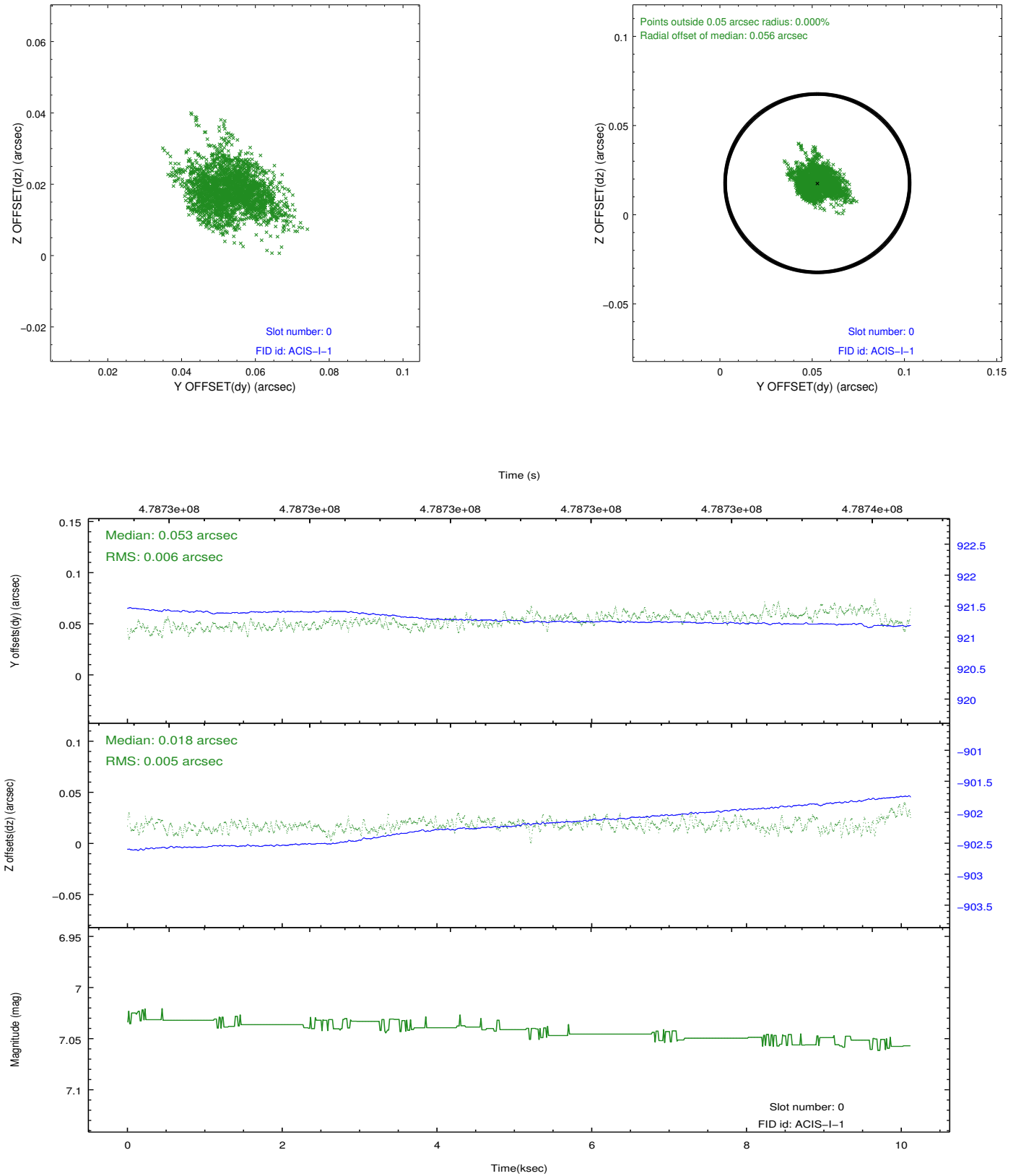


2.4.5 Slot 7

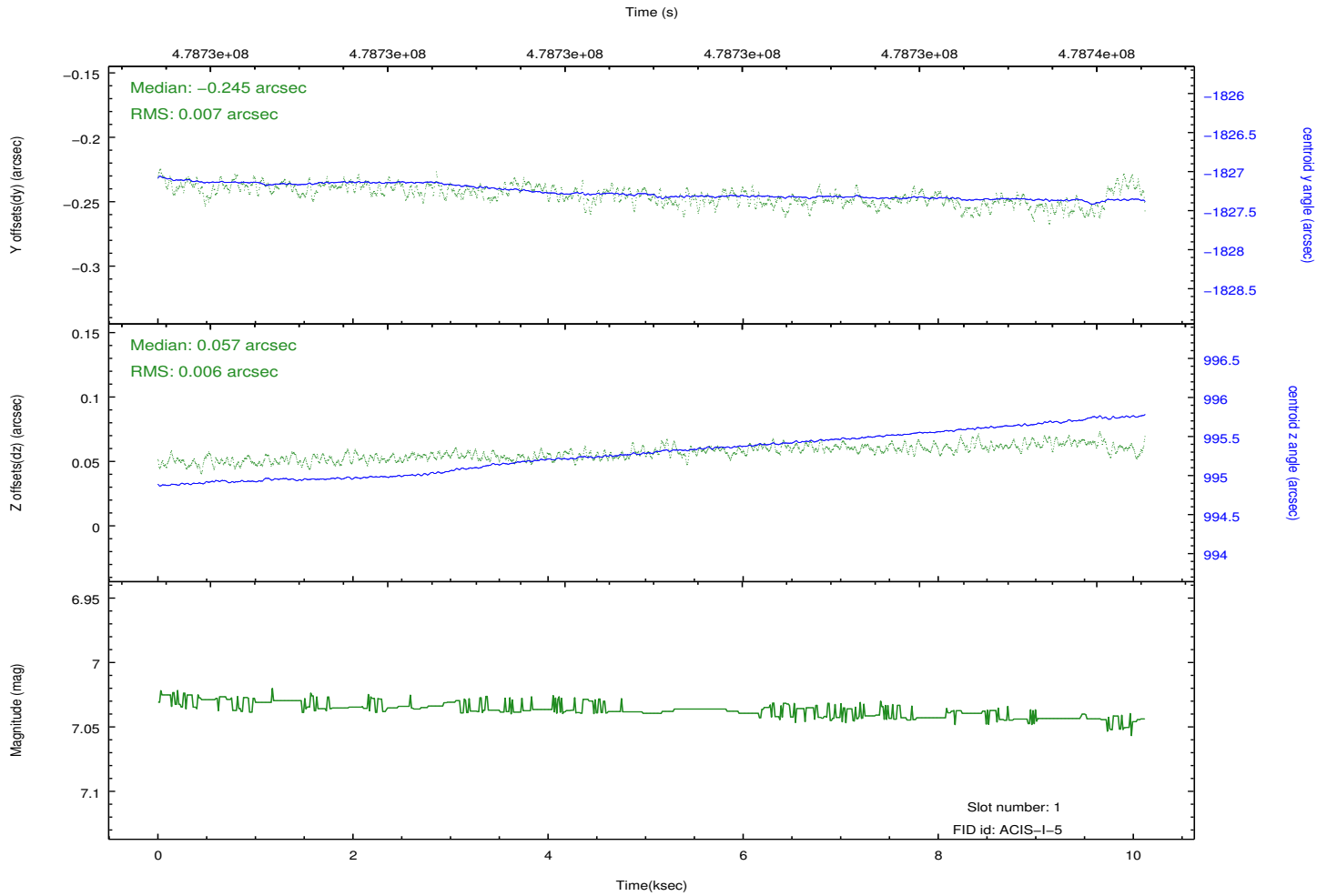
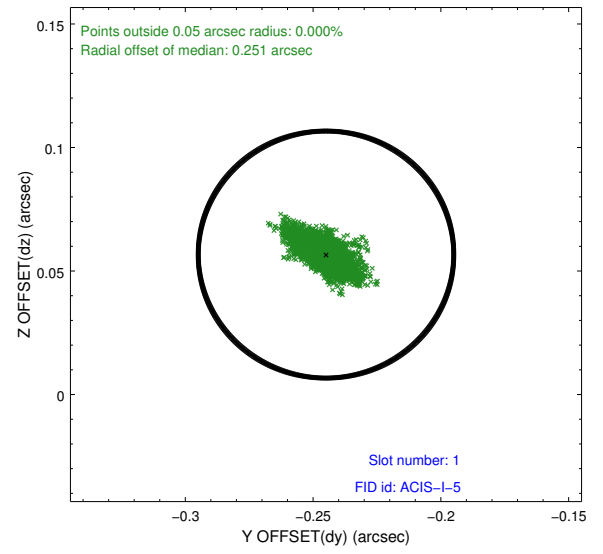
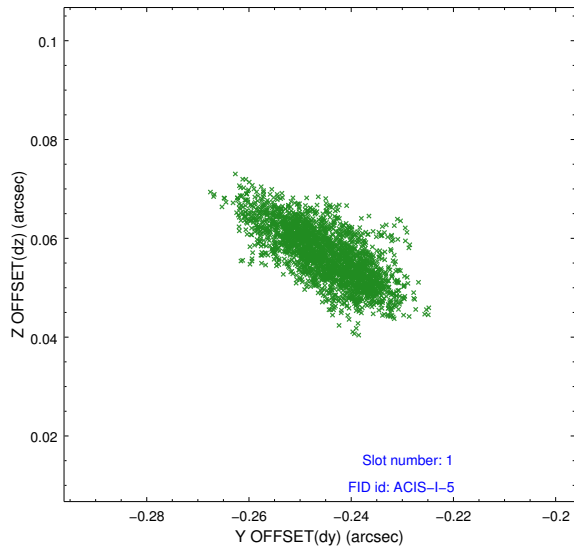


2.5 FID Slots

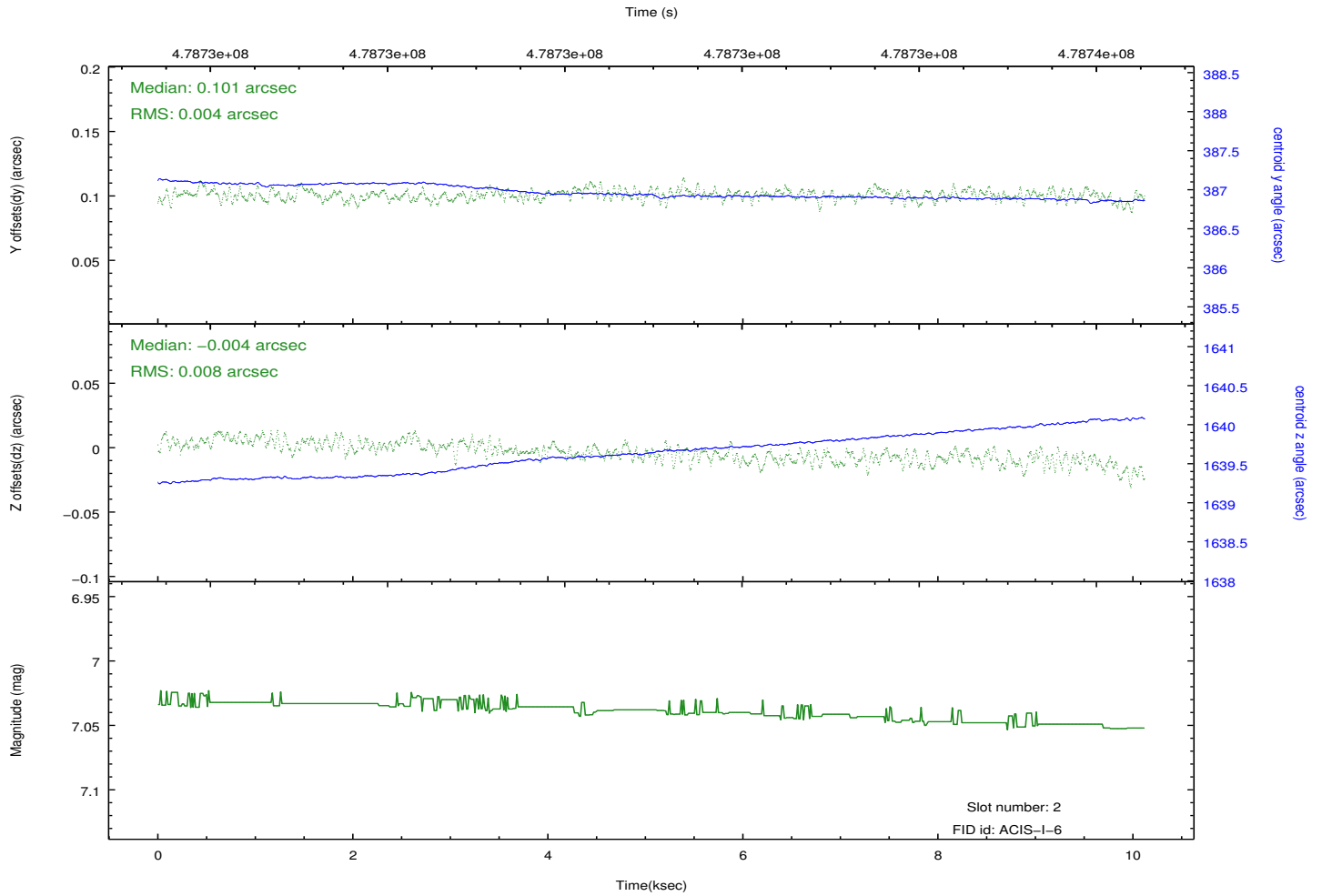
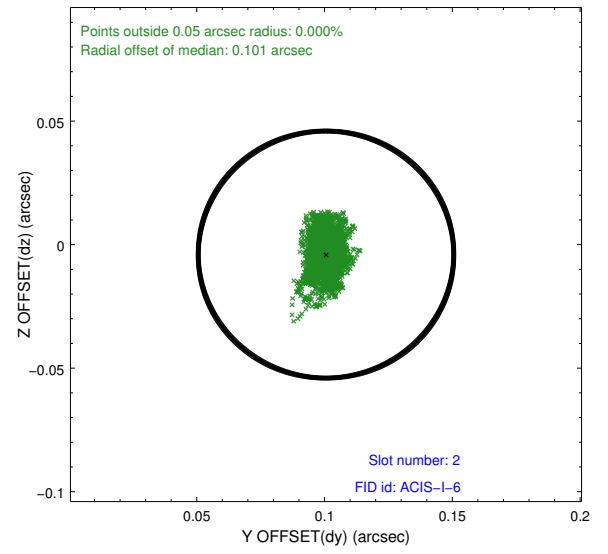
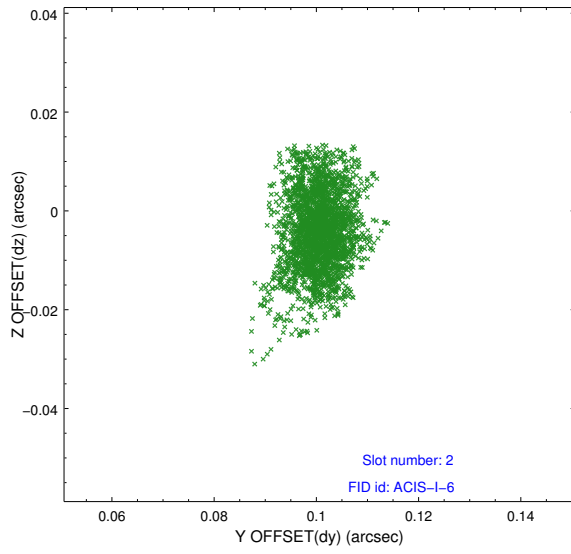
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.081200077534

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.