

V&V Reference Report

L2 ASCDS Version : 10

Observation 14997 - L2 Version 2
Chandra X-Ray Center

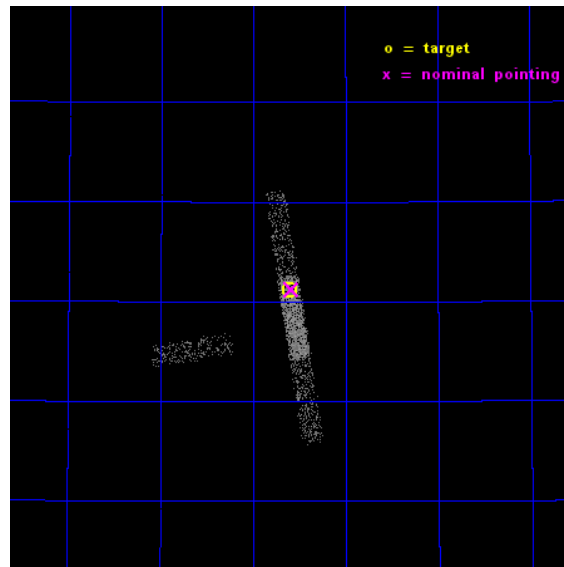
L2 Processing Date : Dec 6 2014

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1 Front

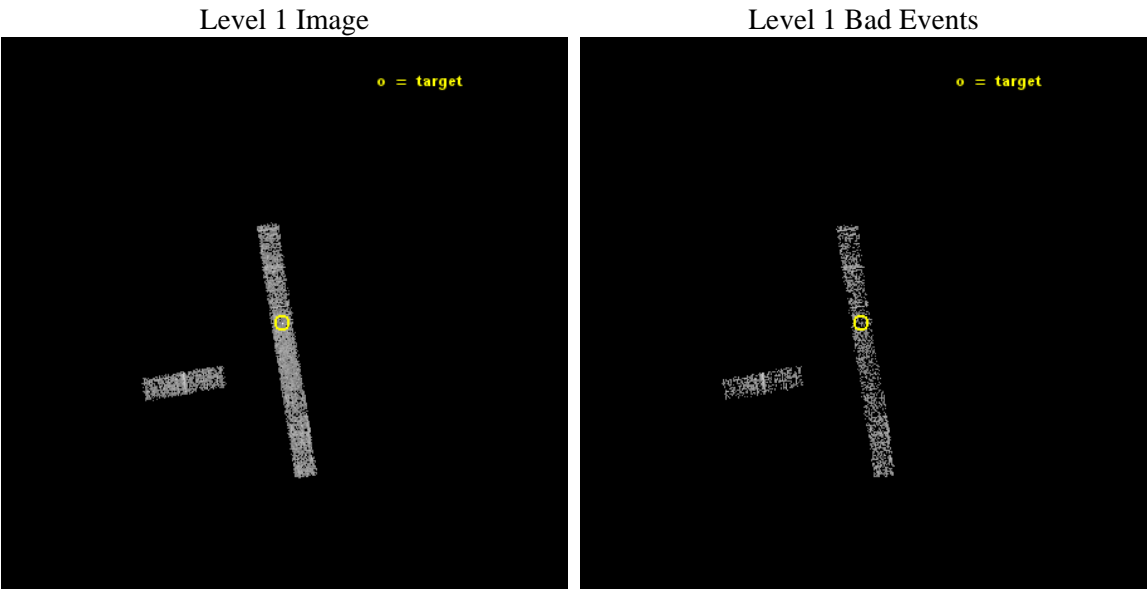
seq_num	702805	Sequence number
obs_id	14997	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C147	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	85.650417	Observer's specified target RA [deg]
dec_targ	49.852	Observer's specified target Dec [deg]
ra_nom	85.646914655224	Nominal RA [deg]
dec_nom	49.853923613633	Nominal Dec [deg]
roll_nom	80.895511130989	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2084.8426011801	Sum of GTIs [s]
livetime	2002.6536935949	Livetime [s]
ontime3	2084.7605211735	Sum of GTIs [s]
ontime6	2084.8015611768	Sum of GTIs [s]
ontime7	2084.8426011801	Sum of GTIs [s]
ontime8	2084.7194811702	Sum of GTIs [s]
l2events	2748	Number of level 2 events



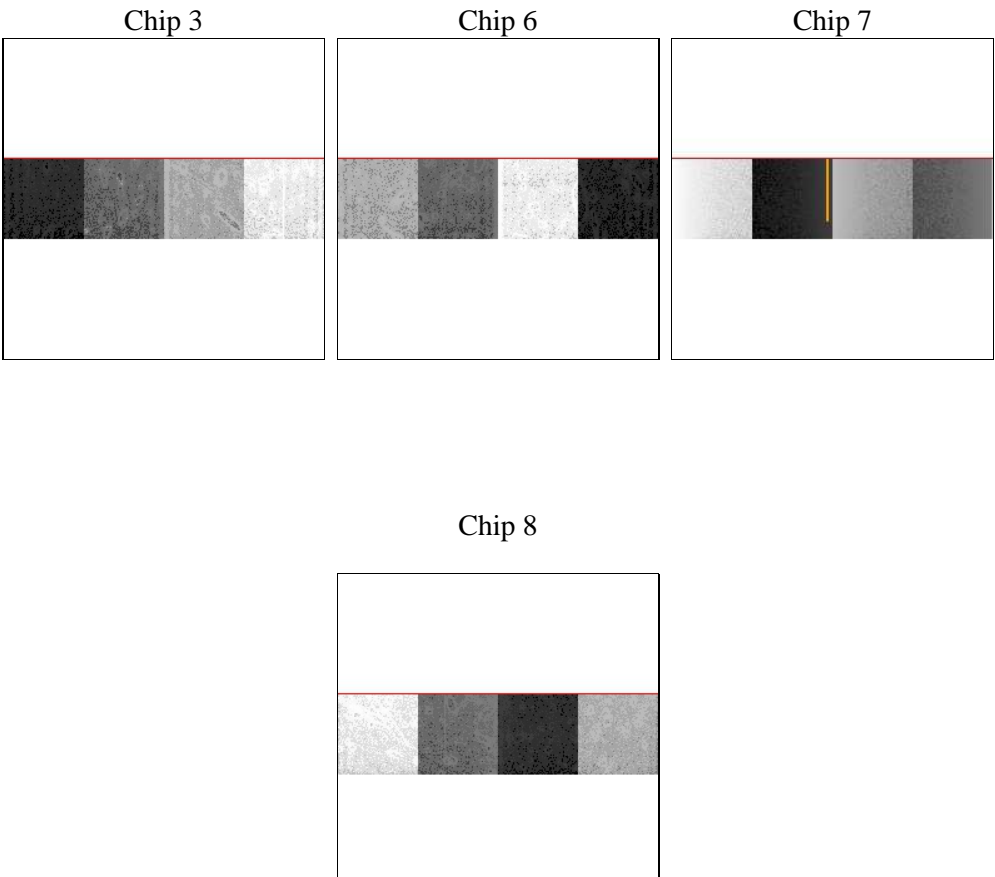
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	2084.8426011801	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	2084.7605211735	Sum of GTIs [s]
date	2014-12-06T05:50:48	Date and time of file creation	ontime6	2084.8015611768	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	2084.8426011801	Sum of GTIs [s]
			ontime8	2084.7194811702	Sum of GTIs [s]
			l1events	13253	Number of level 1 events

2.1.4 Events

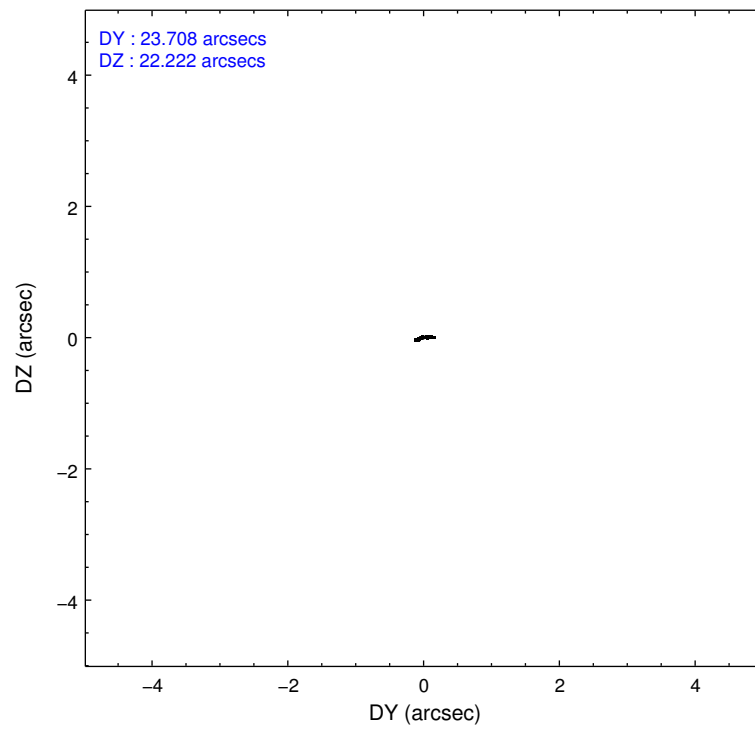
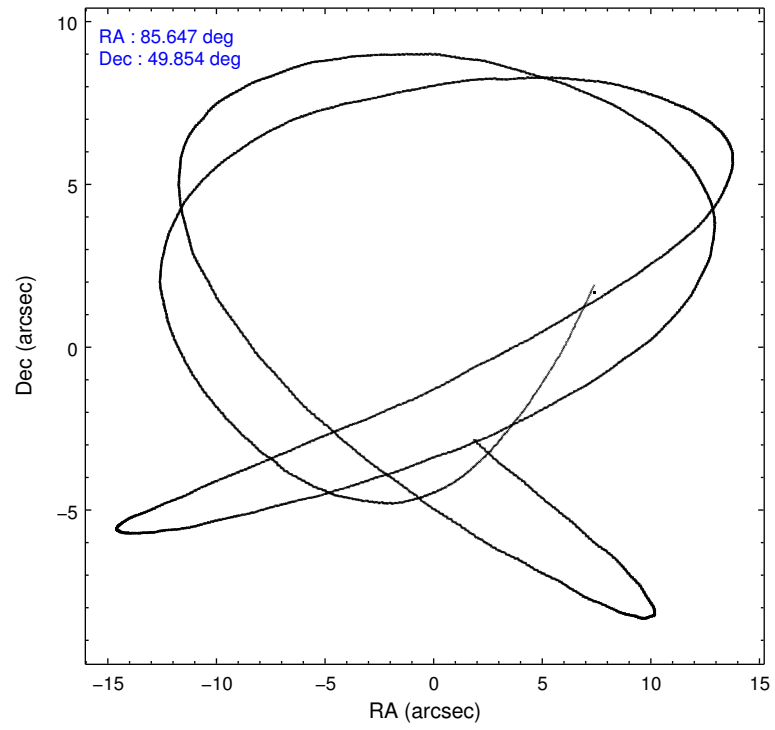
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	2795	2939	3834	3685
rejected events	2504	2566	1942	2758
rejected %	89%	87%	50%	74%

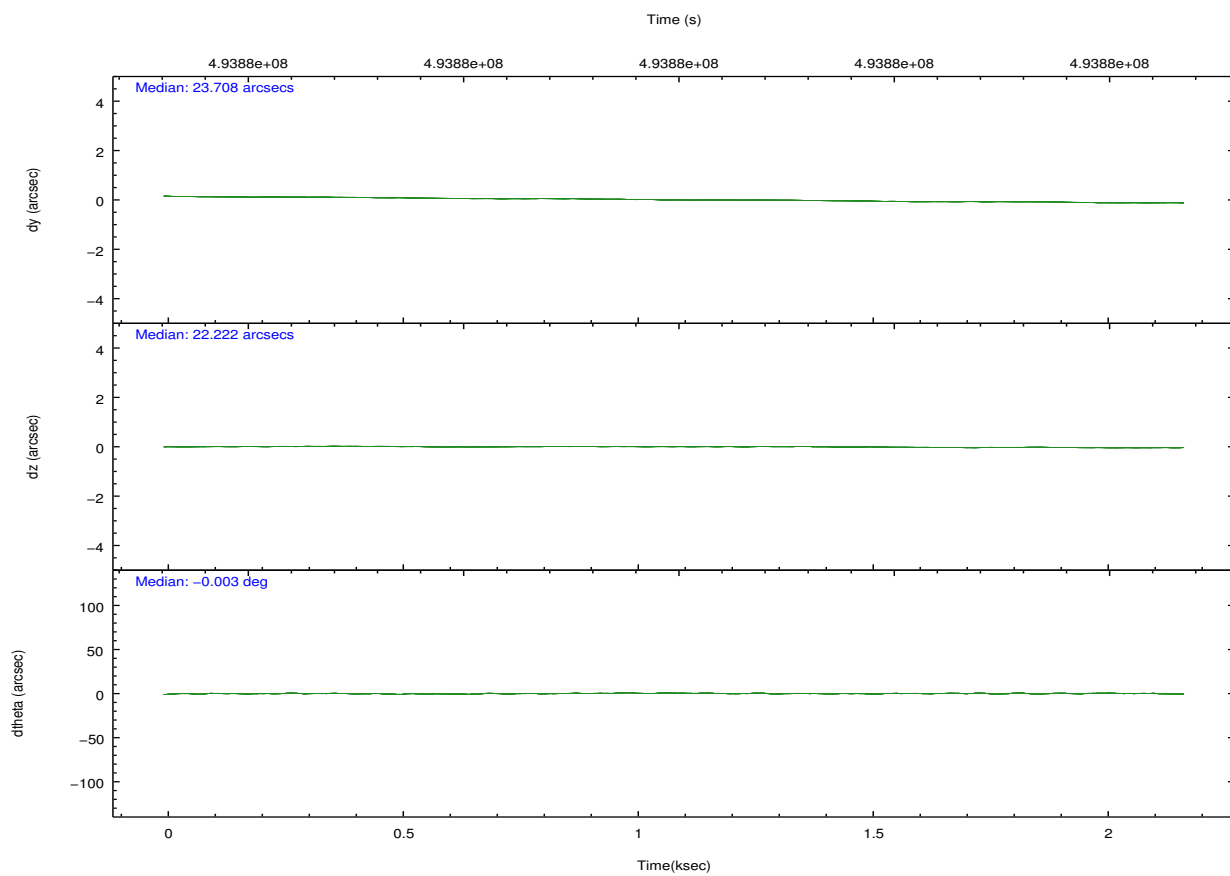
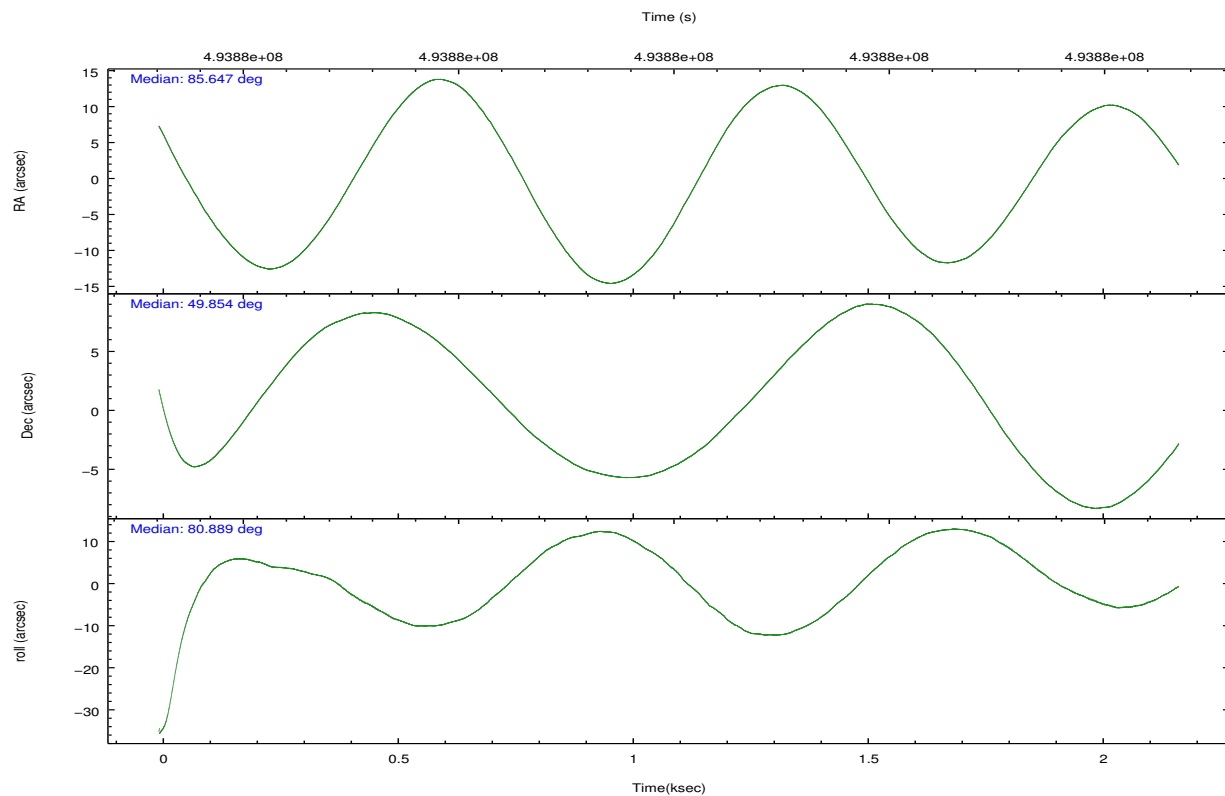
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	81	110	201	246
	2%	3%	5%	6%
grade 1 events	1	0	3	2
	0%	0%	0%	0%
grade 2 events	63	66	396	240
	2%	2%	10%	6%
grade 3 events	40	40	191	67
	1%	1%	4%	1%
grade 4 events	52	65	211	80
	1%	2%	5%	2%
grade 5 events	130	141	371	178
	4%	4%	9%	4%
grade 6 events	55	93	894	294
	1%	3%	23%	7%
grade 7 events	2373	2424	1567	2578
	84%	82%	40%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	85.662563	85.64691465522417	CCD I2 on	N	N
[deg] Pointing Dec	49.828590	49.85392361363252	CCD I3 on	O1	Y
[deg] Pointing Roll	80.727112	80.89551113098931	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	493882561.184000	493881725.56468	CCD S5 on	N	N
Observation start date	2013-08-26T05:34:54	2013-08-26T05:22:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	493884561.184000	493885559.06489	On-chip summing requested	N	N
Observation end date	2013-08-26T06:08:14	2013-08-26T06:25:59	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



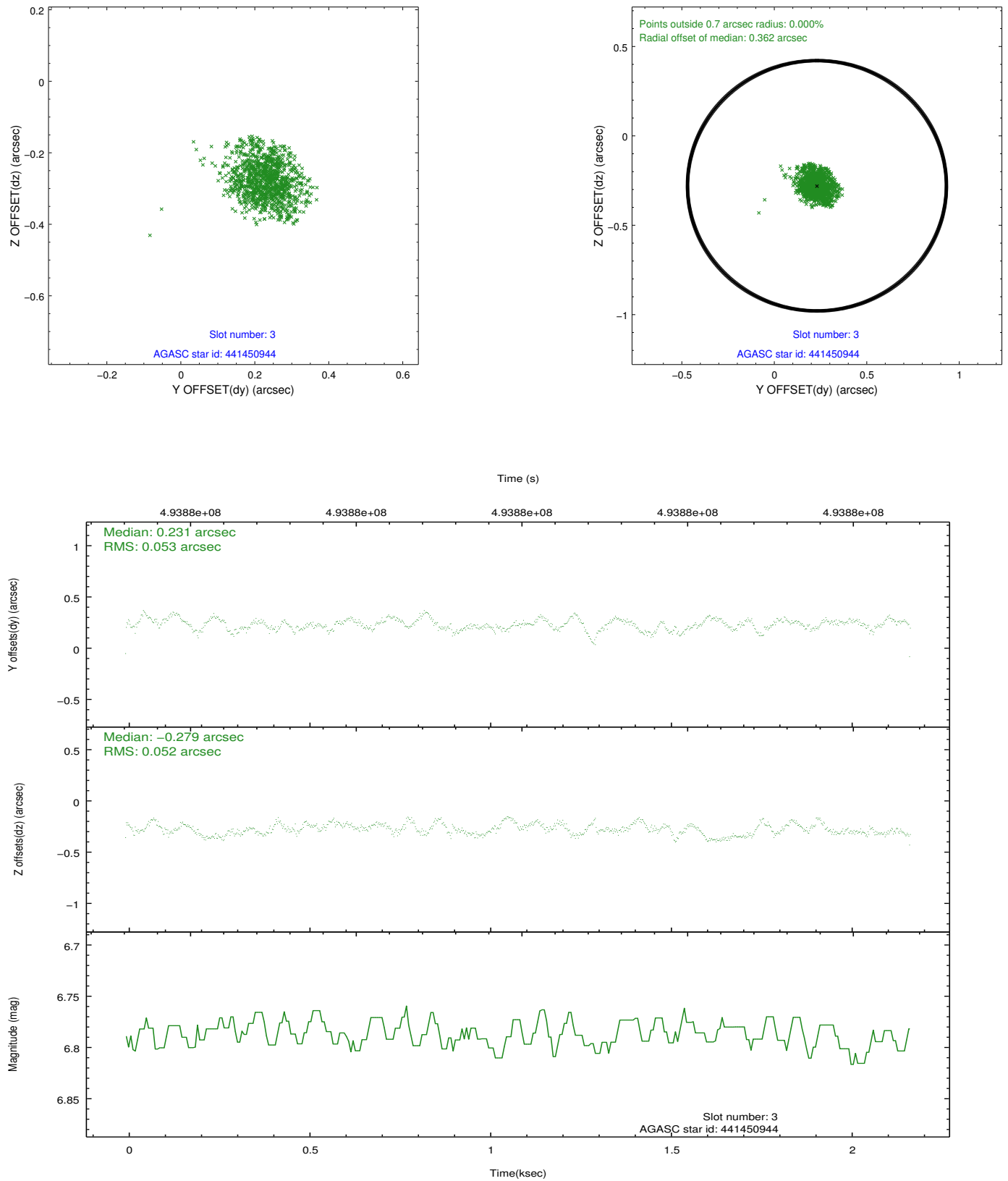


Slot Statistics

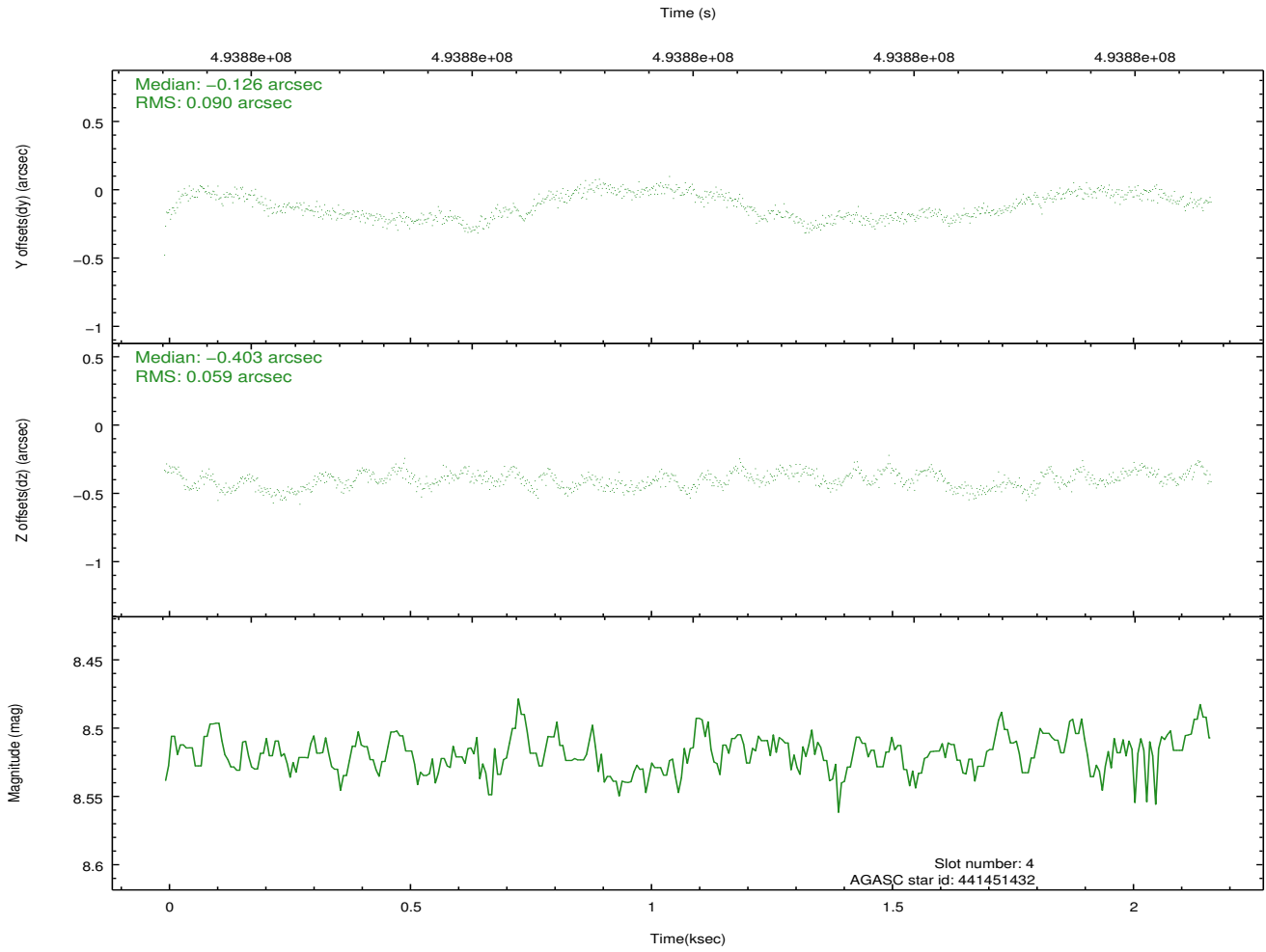
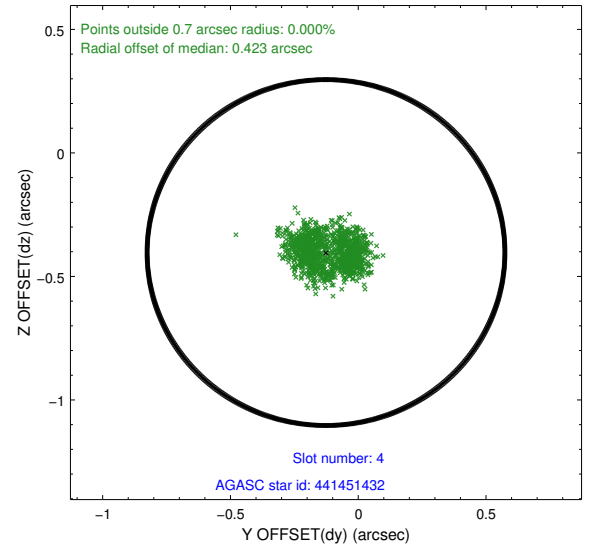
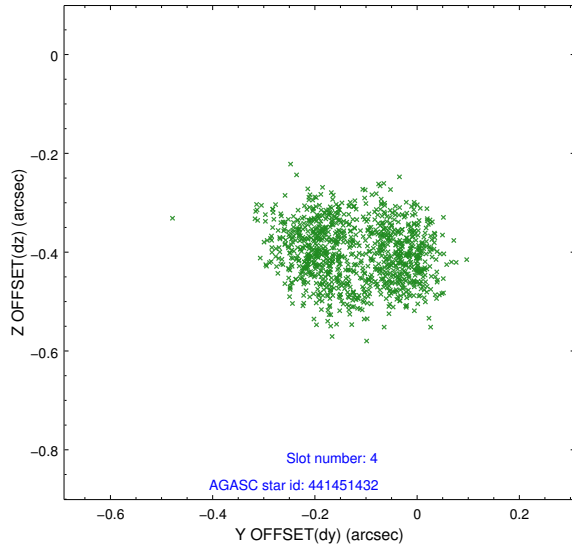
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	530	-0.107	-0.025	0.007	0.010	0.000000	0.000000	-777.07	-1743.74
1	FID		ACIS-S-4	7.02	530	0.270	0.058	0.006	0.011	0.000000	0.000000	2135.23	161.63
2	FID		ACIS-S-5	7.05	530	-0.194	-0.025	0.006	0.011	0.000000	0.000000	-1826.13	158.72
3	GUIDE	used	441450944	6.79	1060	0.231	-0.279	0.079	0.122	84.736513	49.416209	-1801.07	1903.04
4	GUIDE	used	441451432	8.52	1060	-0.126	-0.403	0.117	0.166	84.868032	50.170314	926.92	2009.50
5	GUIDE	used	441456296	9.42	1047	-0.317	0.237	0.150	0.218	86.072204	50.339445	1970.36	-629.66
6	GUIDE	used	441456520	8.39	1060	-0.033	-0.173	0.074	0.116	85.035473	50.025865	475.16	1545.96
7	GUIDE	used	441459672	8.95	1056	0.240	0.600	0.141	0.293	86.481977	49.451877	-1017.81	-2107.39

2.4 Star Slots

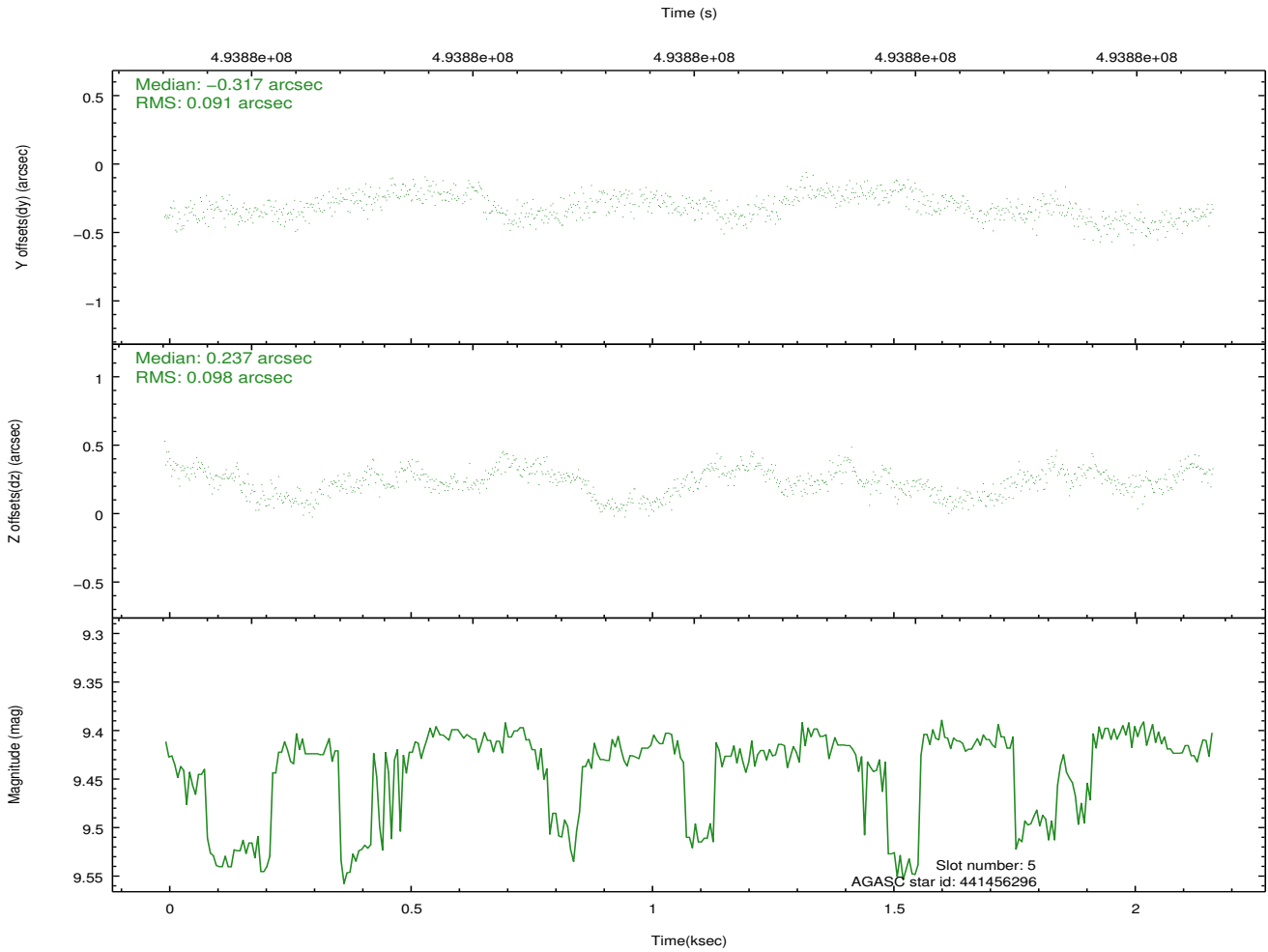
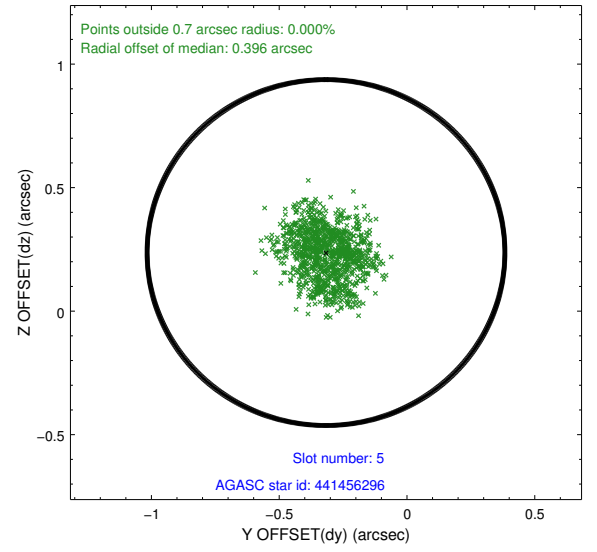
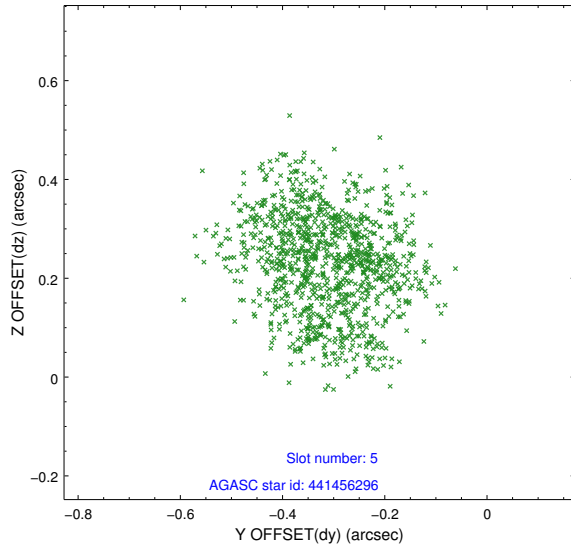
2.4.1 Slot 3



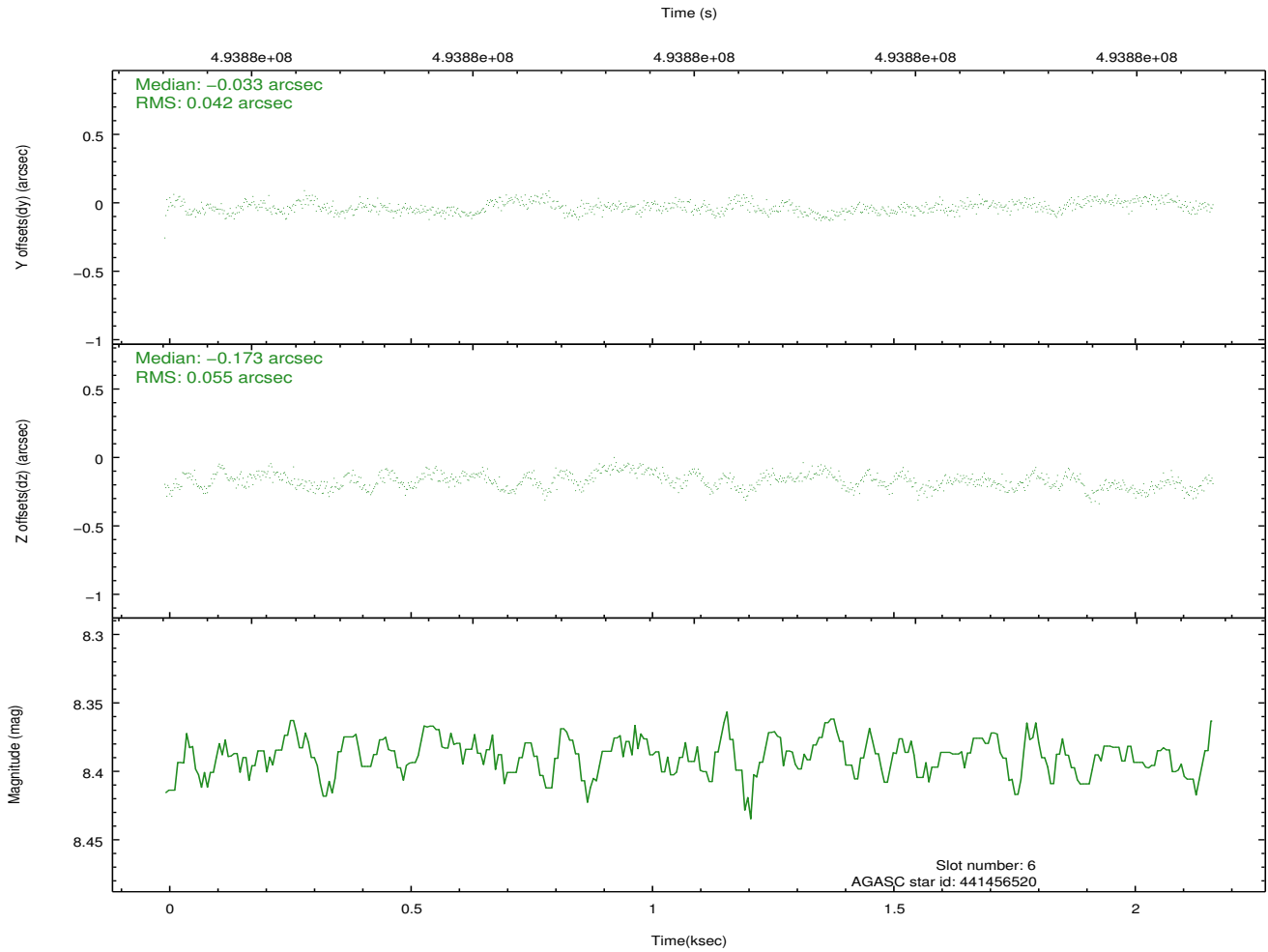
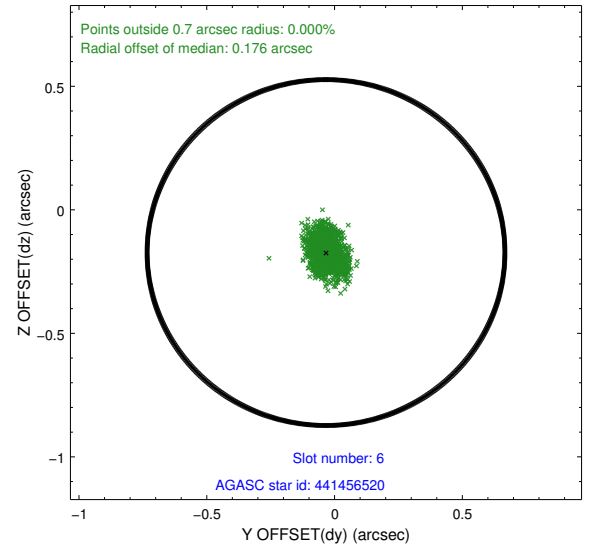
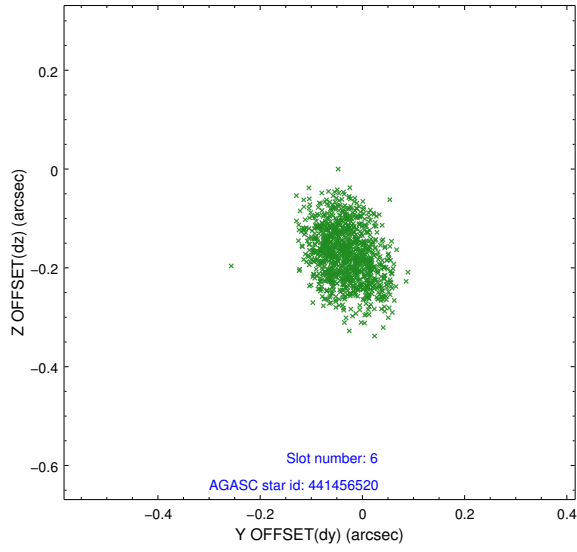
2.4.2 Slot 4



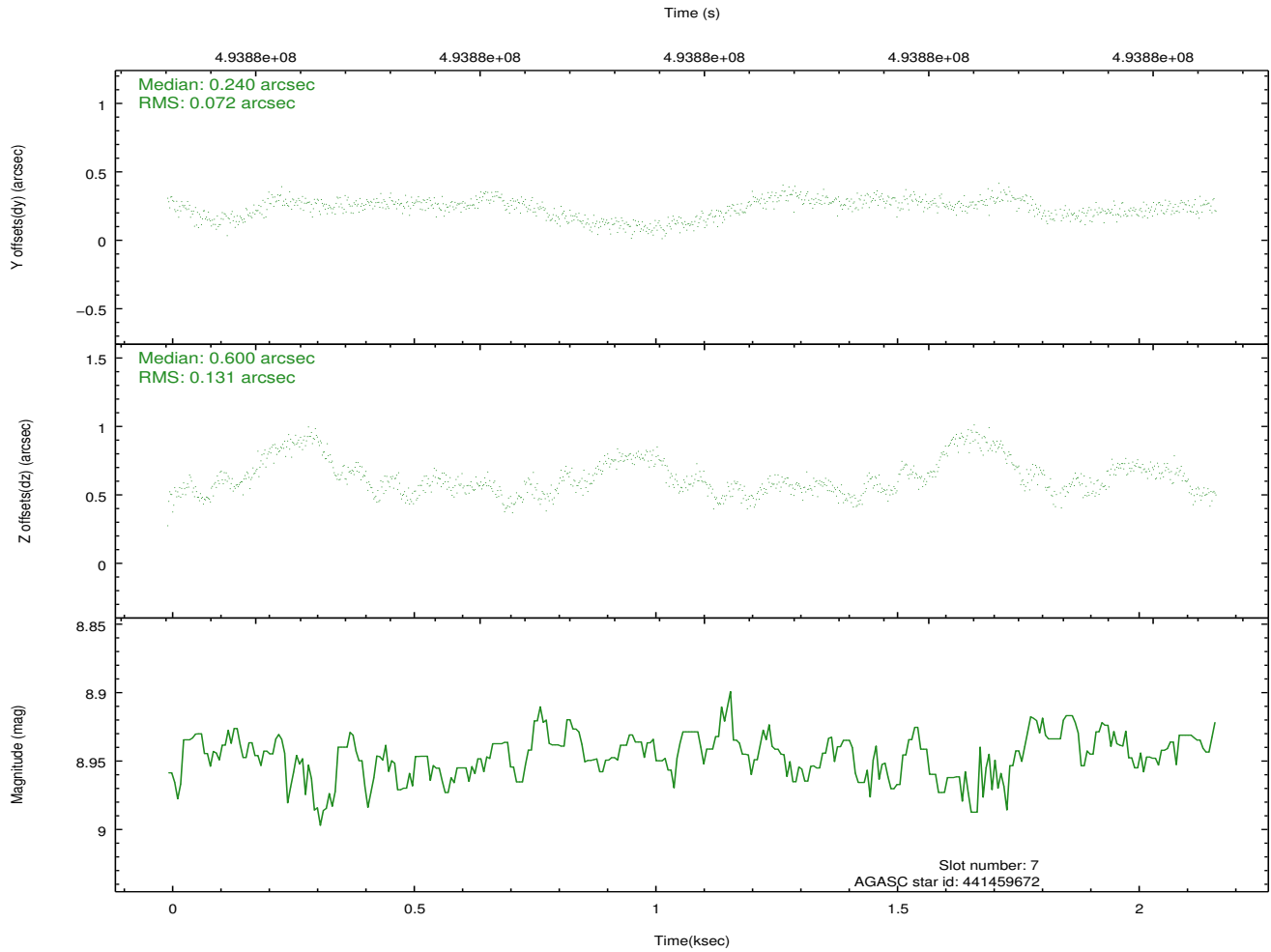
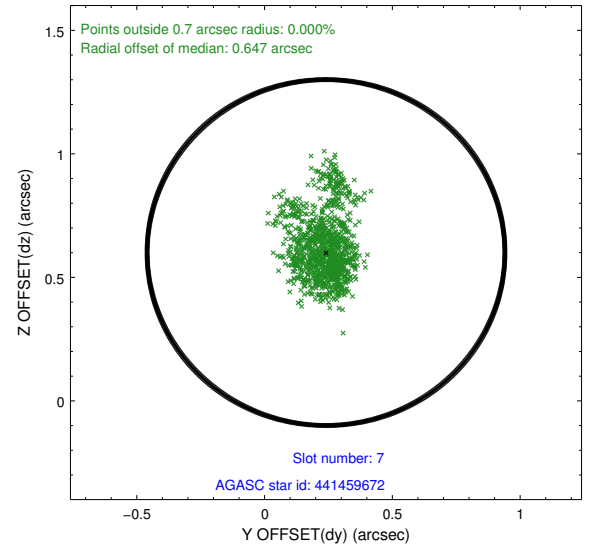
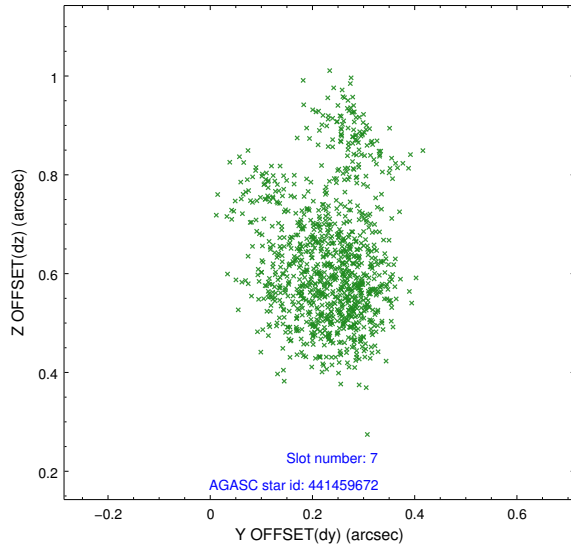
2.4.3 Slot 5



2.4.4 Slot 6

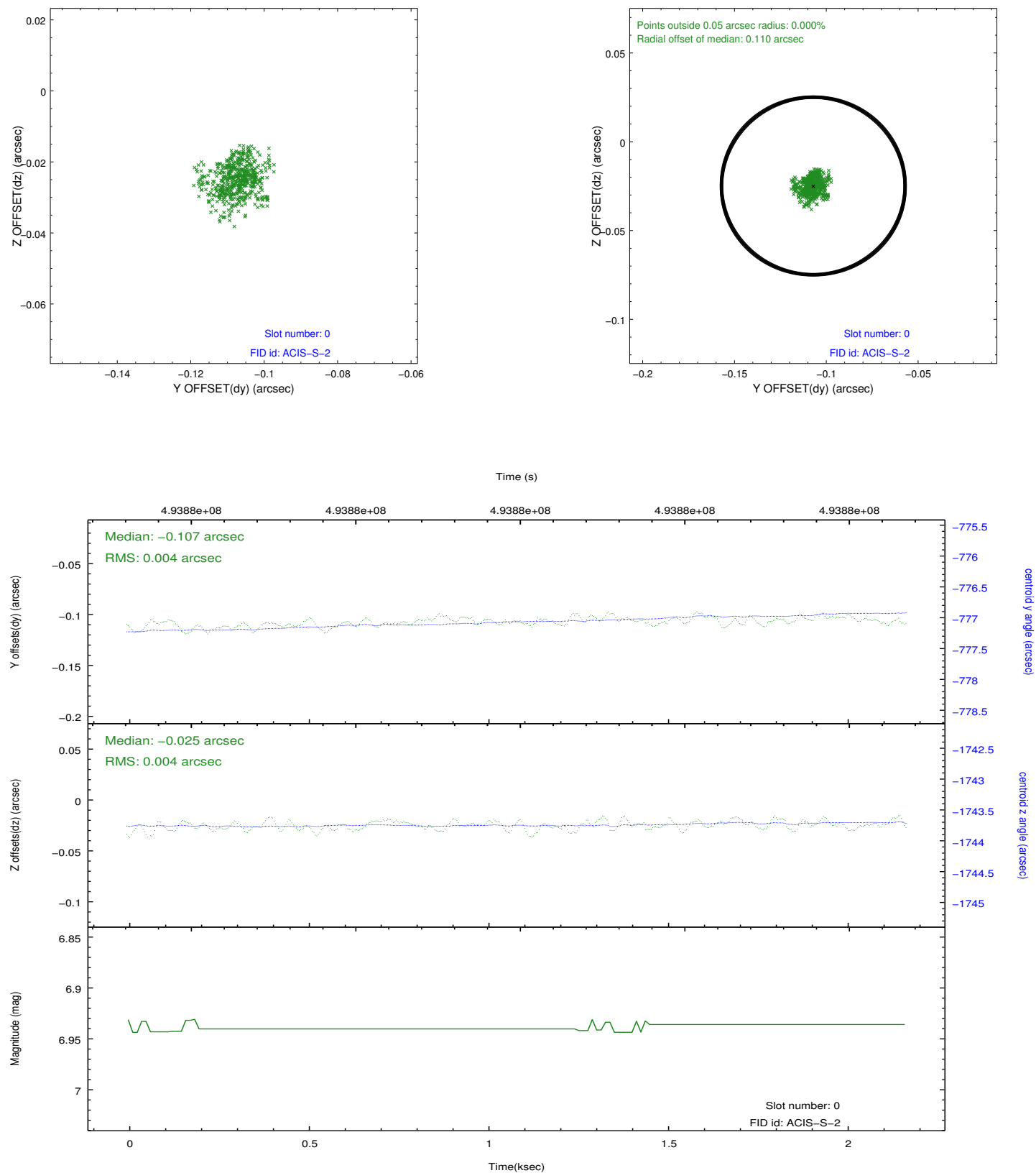


2.4.5 Slot 7

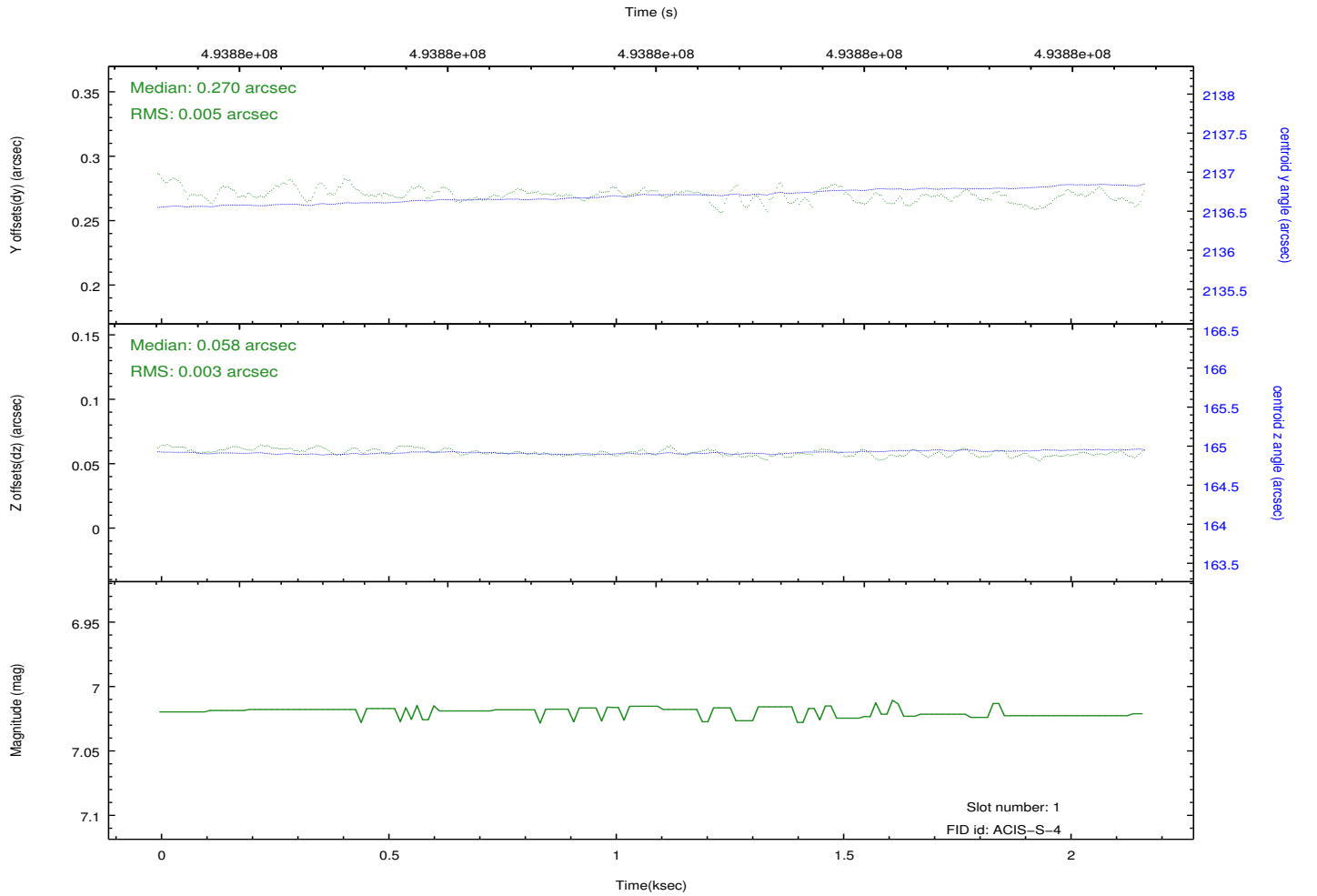
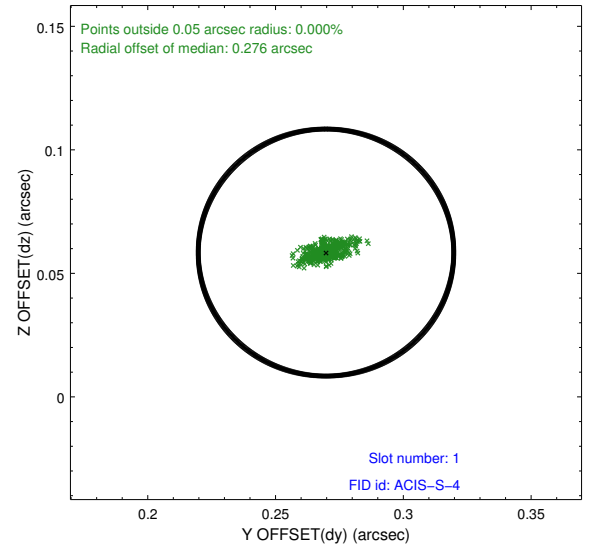
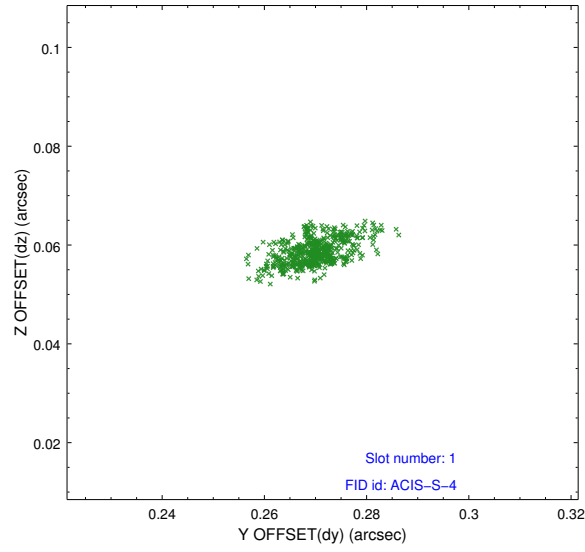


2.5 FID Slots

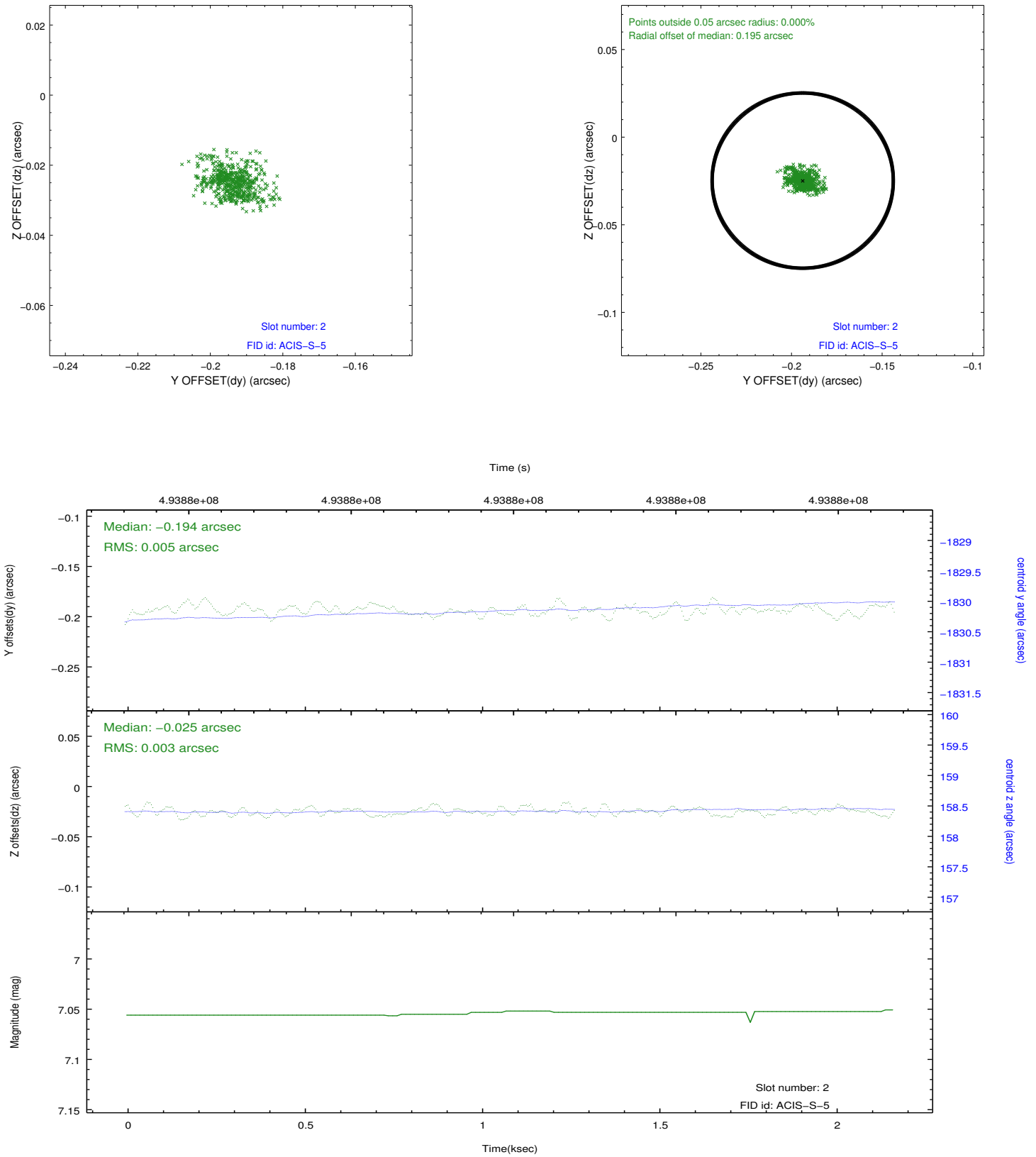
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0848426011801

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.