

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18317 - L2 Version 1
Chandra X-Ray Center

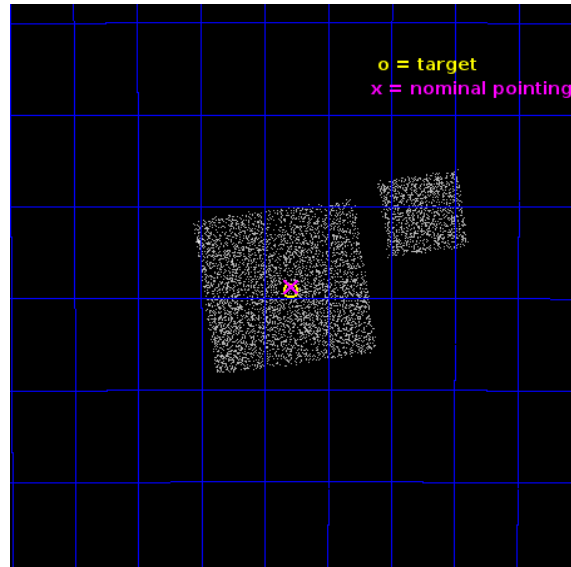
L2 Processing Date : May 11 2016

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

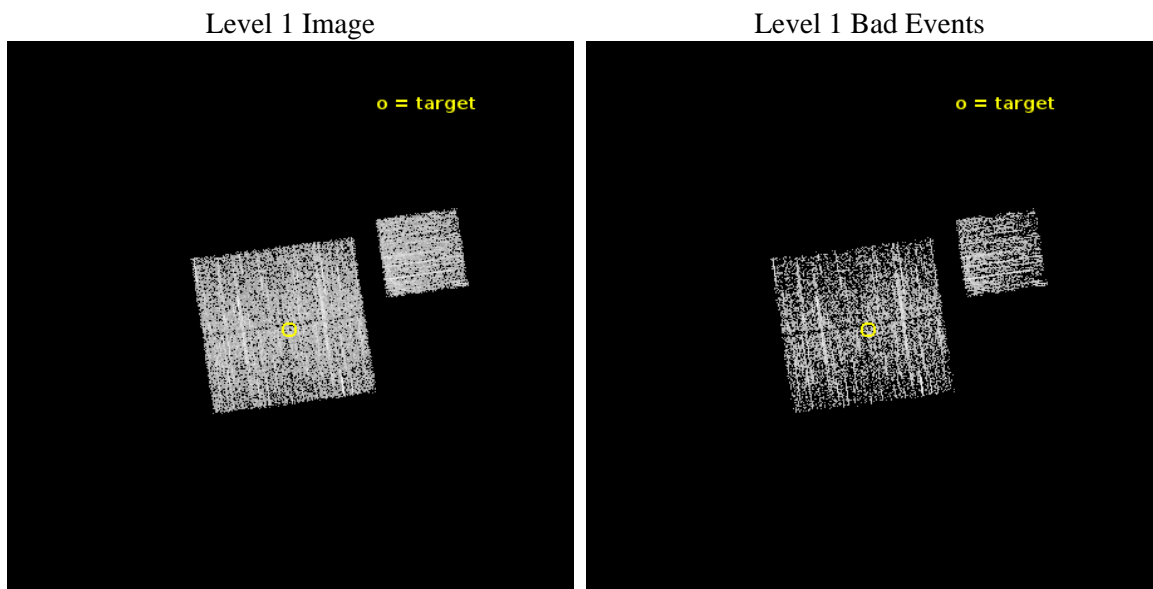
seq_num	300348	Sequence number
obs_id	18317	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.44895	Observer's specified target RA [deg]
dec_targ	-27.8196	Observer's specified target Dec [deg]
ra_nom	265.44695818689	Nominal RA [deg]
dec_nom	-27.812609150178	Nominal Dec [deg]
roll_nom	82.000007299974	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1956.0155895948	Sum of GTIs [s]
livetime	1930.4588059191	Livetime [s]
ontime0	1955.8924697638	Sum of GTIs [s]
ontime1	1955.9335097075	Sum of GTIs [s]
ontime2	1955.9745497704	Sum of GTIs [s]
ontime3	1956.0155895948	Sum of GTIs [s]
ontime6	1955.8514295816	Sum of GTIs [s]
l2events	6834	Number of level 2 events



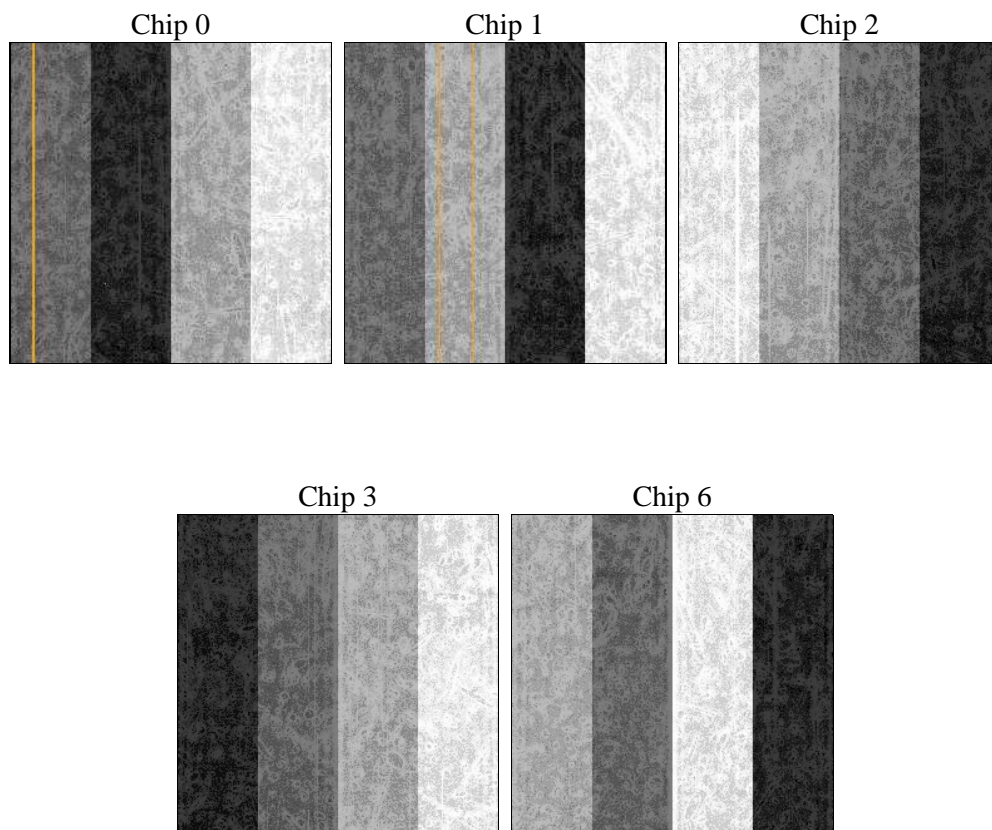
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1956.0155895948	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.8924697638	Sum of GTIs [s]
date	2016-05-11T15:45:11	Date and time of file creation	ontime1	1955.9335097075	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.9745497704	Sum of GTIs [s]
			ontime3	1956.0155895948	Sum of GTIs [s]
			ontime6	1955.8514295816	Sum of GTIs [s]
			l1events	59751	Number of level 1 events

2.1.4 Events

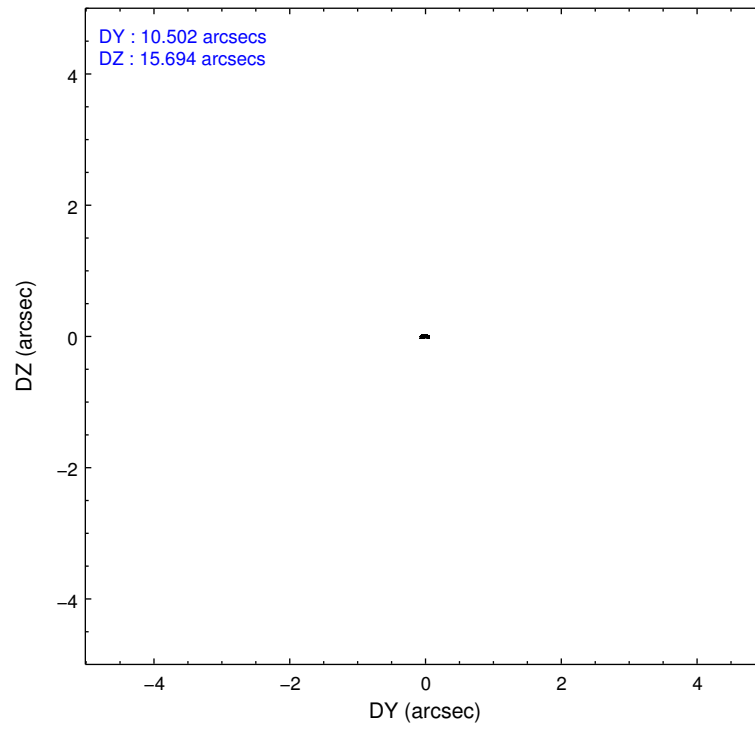
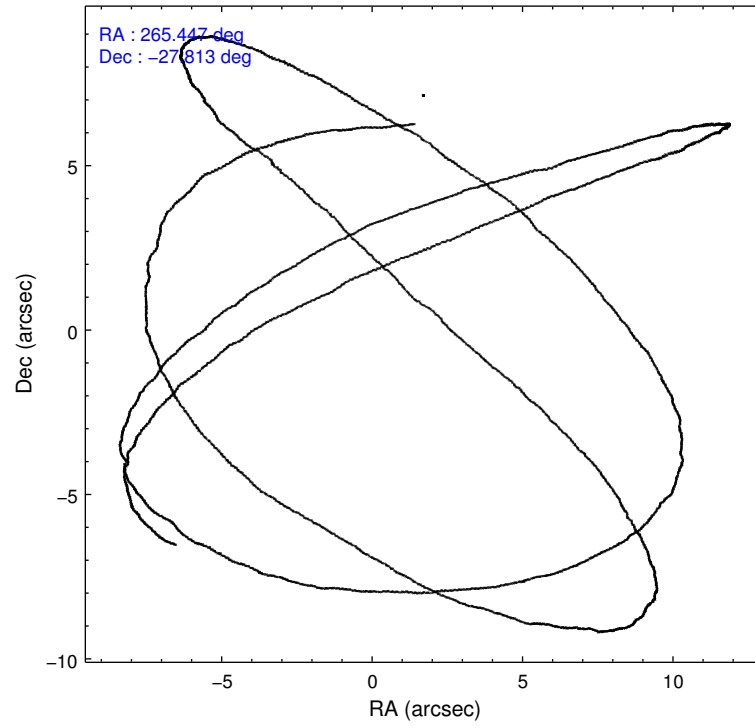
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10722	11709	12050	11892	13378
rejected events	9100	9989	10601	10328	11808
rejected %	84%	85%	87%	86%	88%

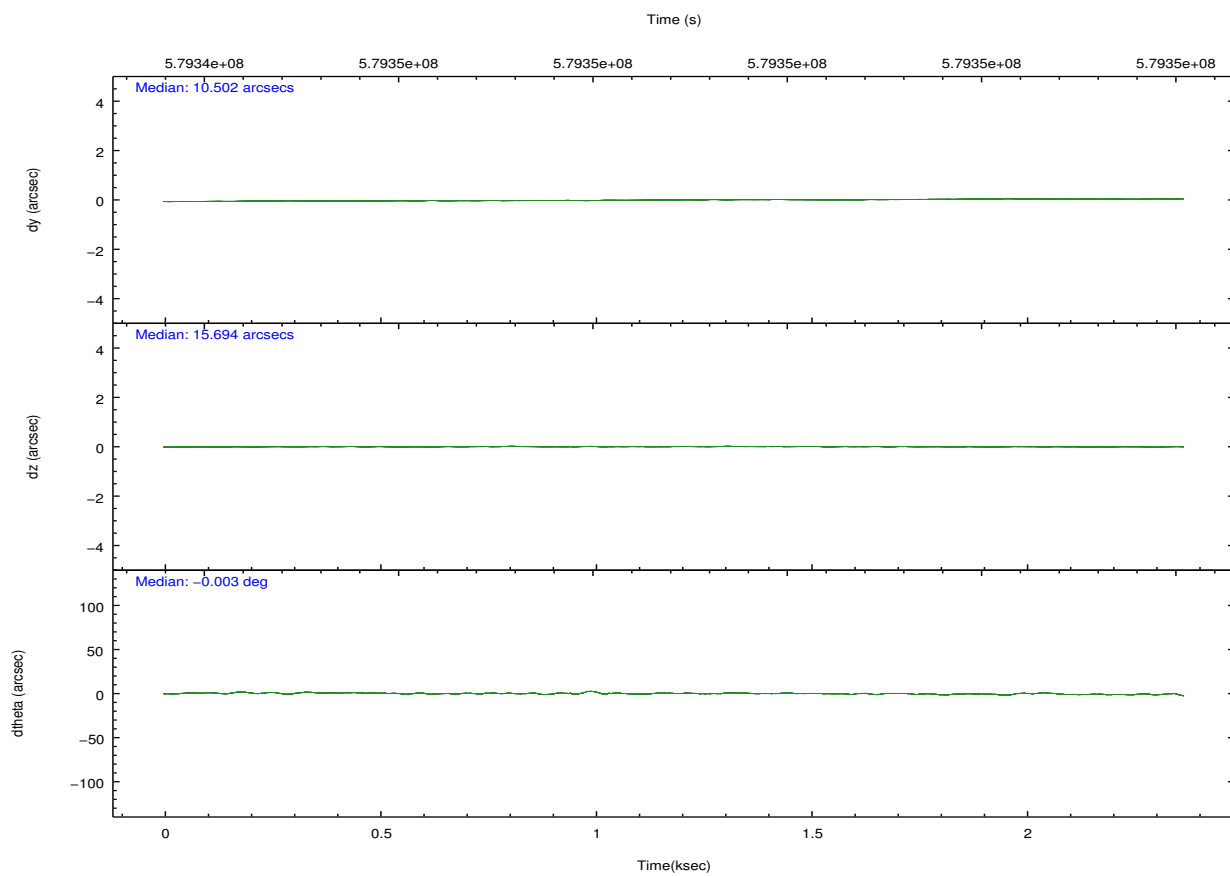
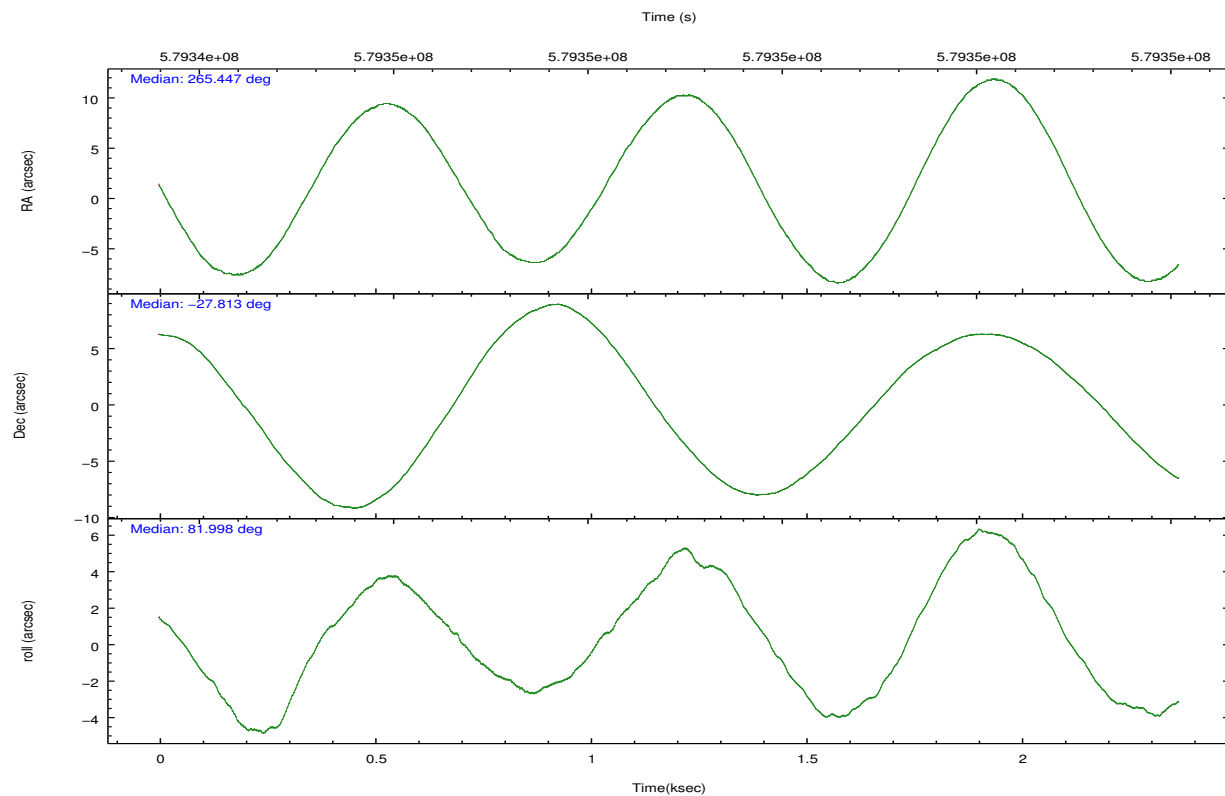
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	647	654	594	604	605
	6%	5%	4%	5%	4%
grade 1 events	12	5	2	10	5
	0%	0%	0%	0%	0%
grade 2 events	369	406	335	341	346
	3%	3%	2%	2%	2%
grade 3 events	160	166	135	179	160
	1%	1%	1%	1%	1%
grade 4 events	140	163	135	142	146
	1%	1%	1%	1%	1%
grade 5 events	509	575	453	567	524
	4%	4%	3%	4%	3%
grade 6 events	309	336	253	302	318
	2%	2%	2%	2%	2%
grade 7 events	8576	9404	10143	9747	11274
	79%	80%	84%	81%	84%

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	265.459007	265.446958186893	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.838176	-27.81260915017759	CCD I3 on	Y	Y
[deg] Pointing Roll	81.796933	82.00000729997437	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	579345206.184000	579344830.3973	CCD S5 on	N	N
Observation start date	2016-05-11T09:12:18	2016-05-11T09:07:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579347386.184000	579347519.99745	On-chip summing requested	N	N
Observation end date	2016-05-11T09:48:38	2016-05-11T09:51:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



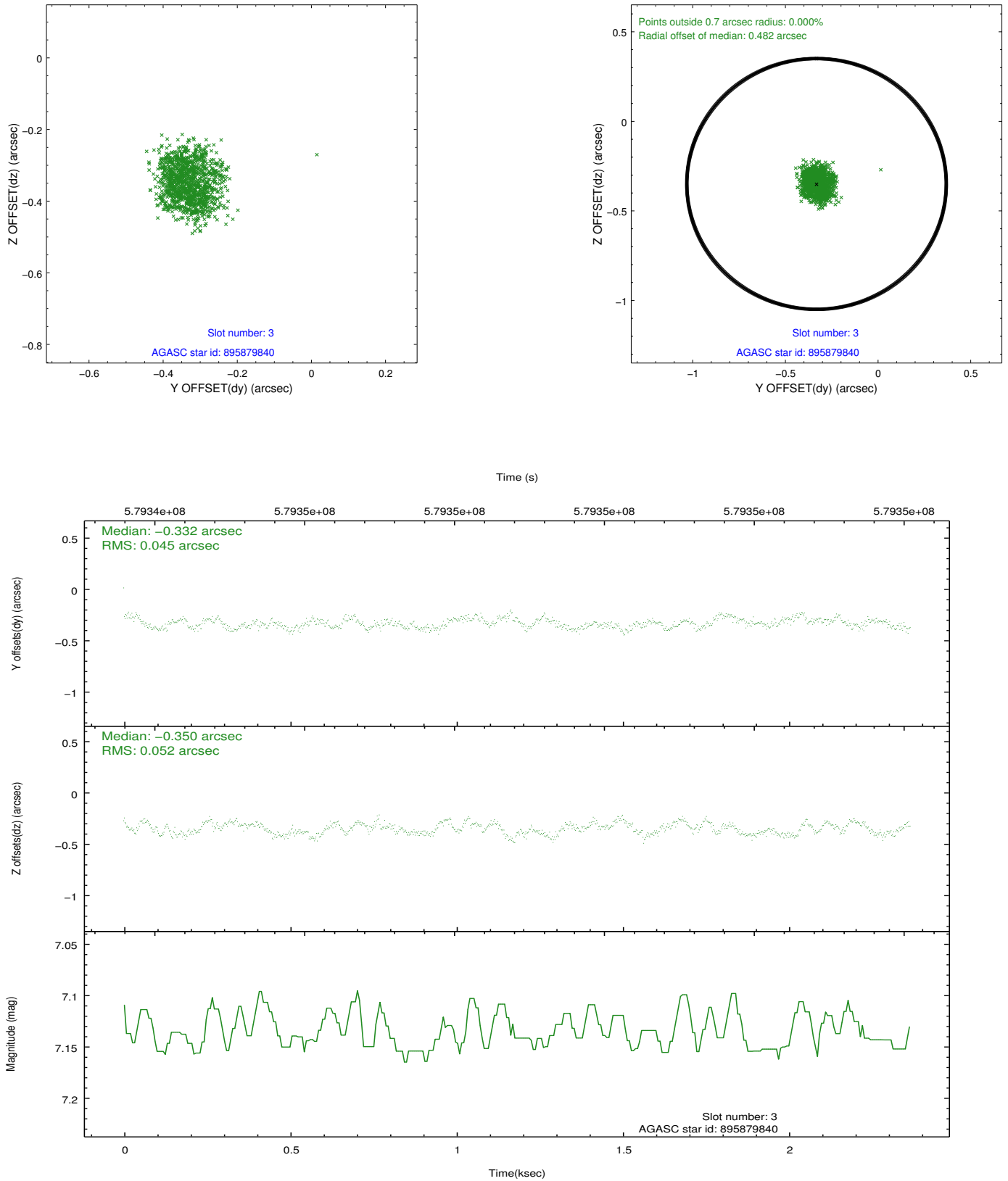


Slot Statistics

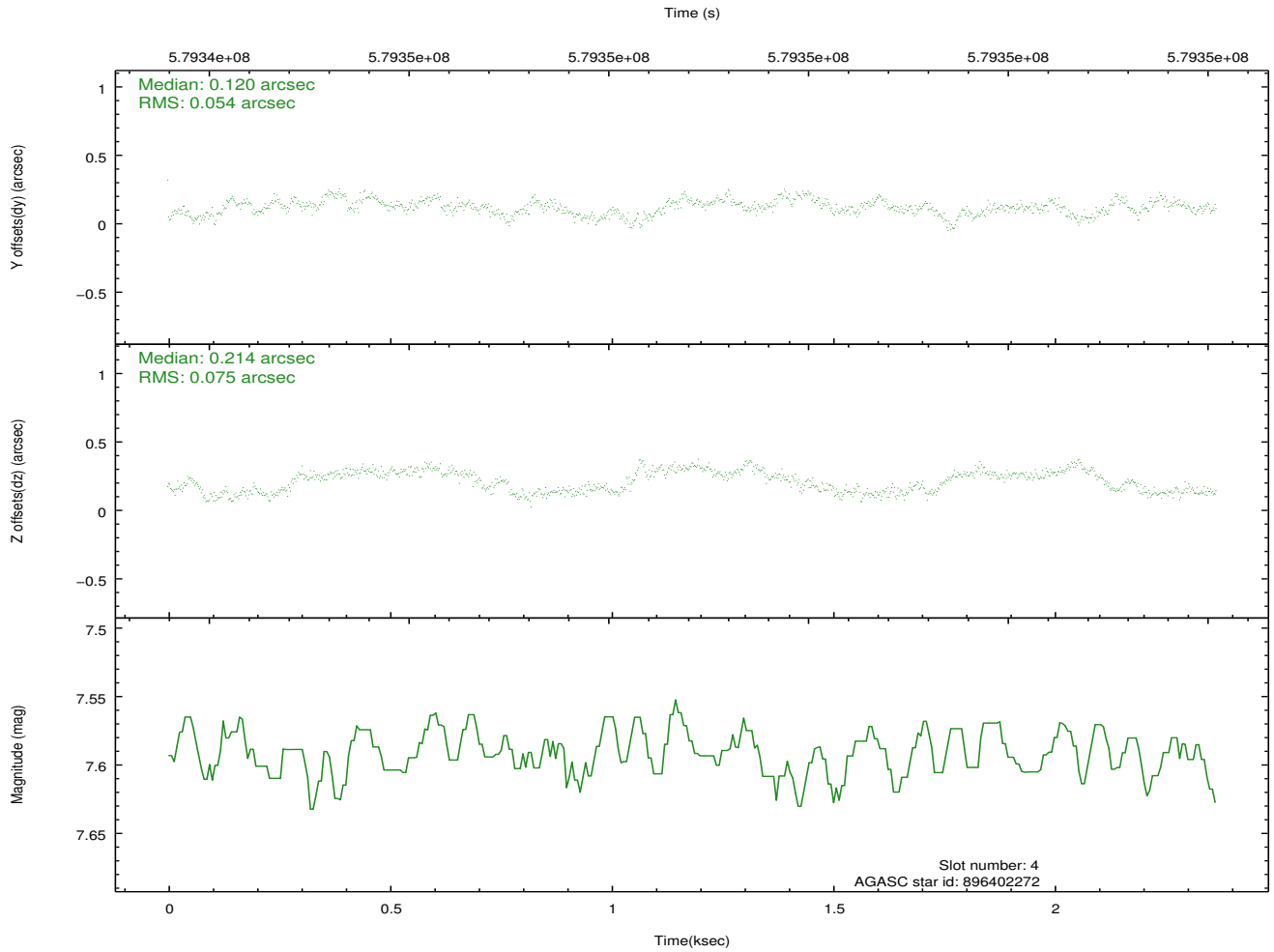
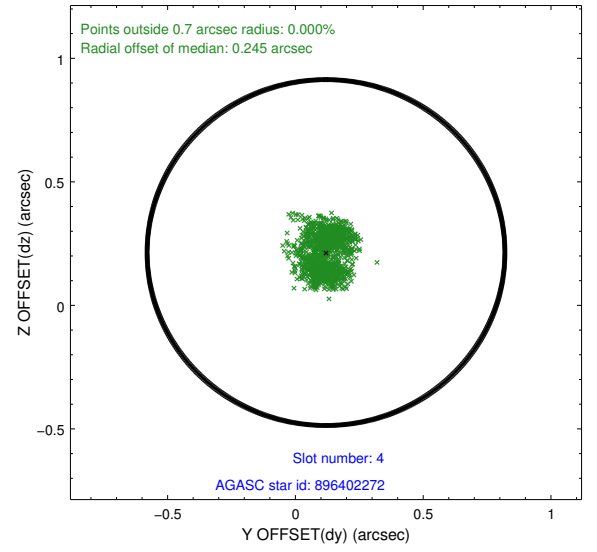
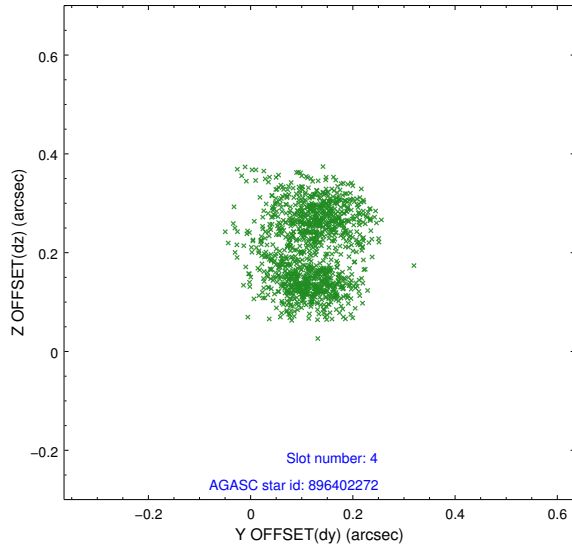
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	578	0.001	-0.090	0.011	0.019	0.000000	0.000000	929.11	-839.38
1	FID		ACIS-I-4	7.19	577	0.253	0.086	0.009	0.016	0.000000	0.000000	2150.88	1059.25
2	FID		ACIS-I-5	7.24	577	-0.352	0.075	0.007	0.012	0.000000	0.000000	-1815.76	1060.11
3	GUIDE	used	895879840	7.14	1155	-0.332	-0.350	0.075	0.109	265.218397	-27.395778	1465.59	987.66
4	GUIDE	used	896402272	7.59	1155	0.120	0.214	0.101	0.145	265.637294	-28.313189	-1610.56	-803.03
5	GUIDE	used	895879392	9.10	1152	-0.337	-0.483	0.113	0.188	264.792874	-27.441876	1101.31	2307.40
6	GUIDE	used	896404568	7.83	1155	0.215	0.207	0.071	0.112	265.687293	-28.431080	-2008.61	-1018.57
7	GUIDE	used	896539744	8.31	1154	0.324	0.424	0.074	0.122	266.154264	-28.178023	-903.35	-2360.38

2.4 Star Slots

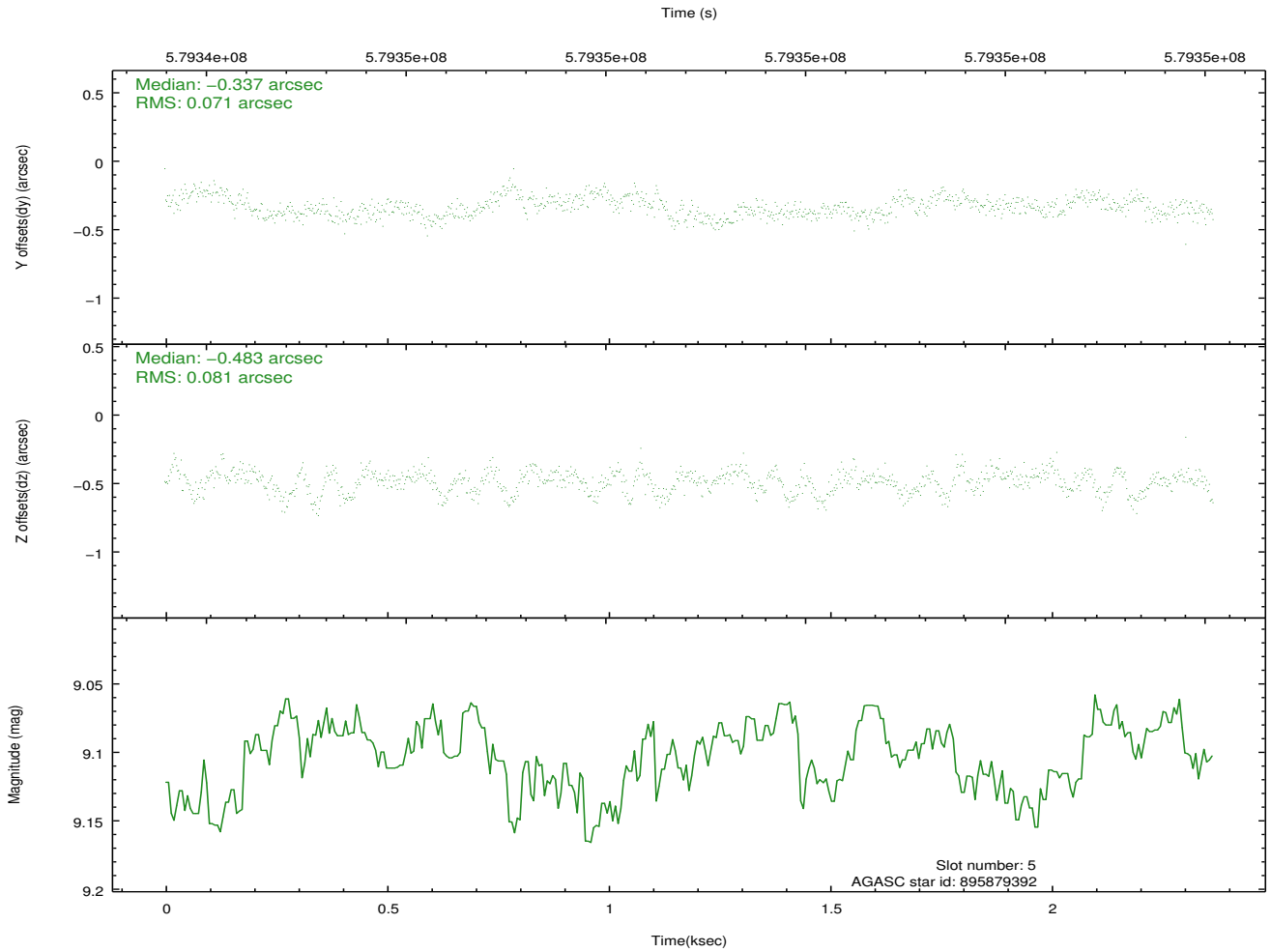
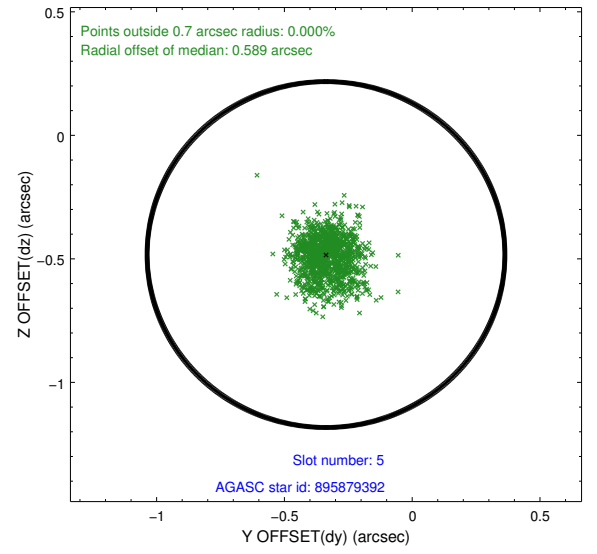
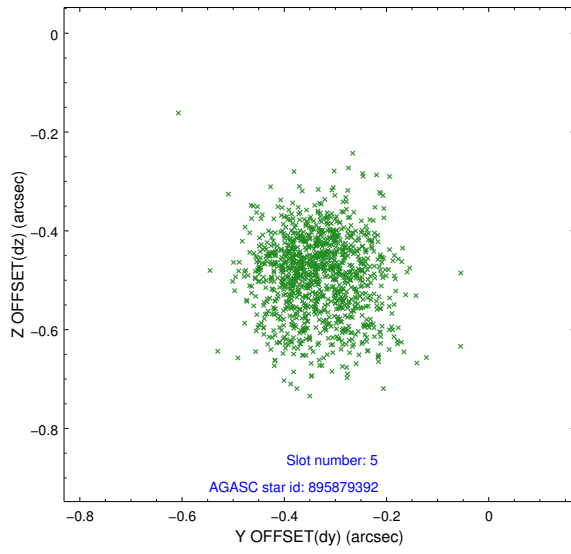
2.4.1 Slot 3



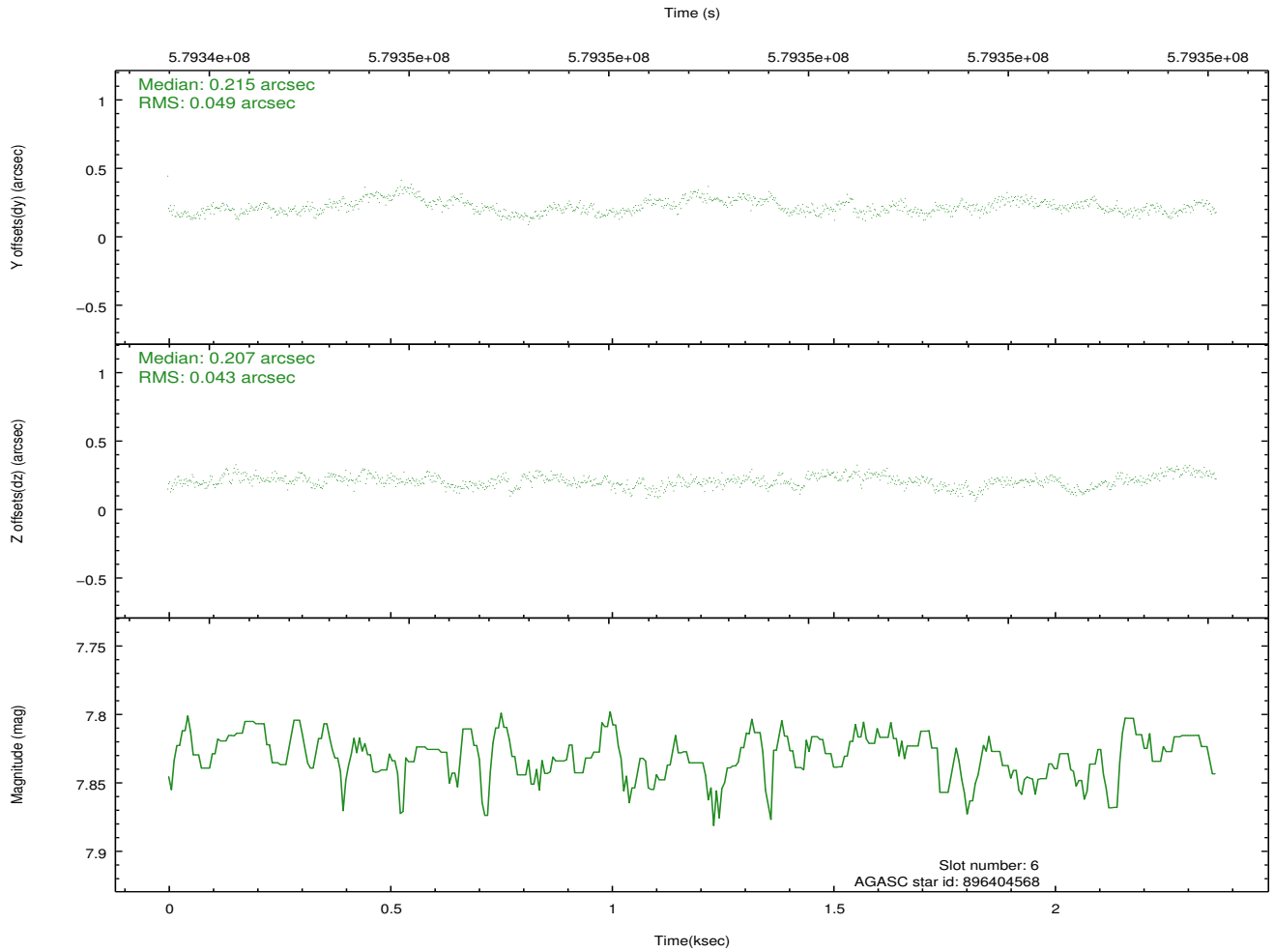
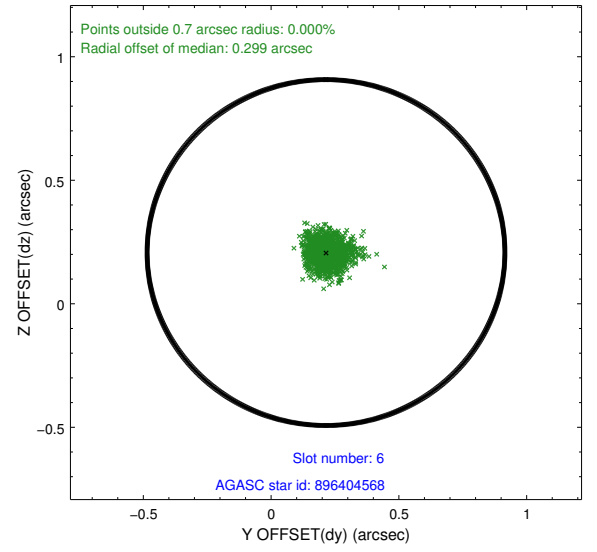
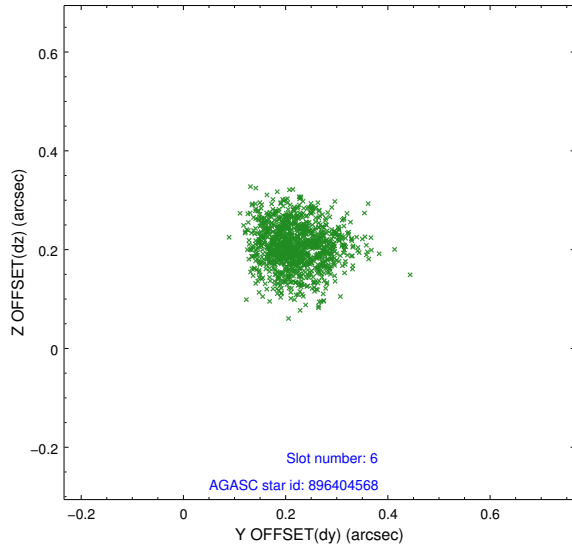
2.4.2 Slot 4



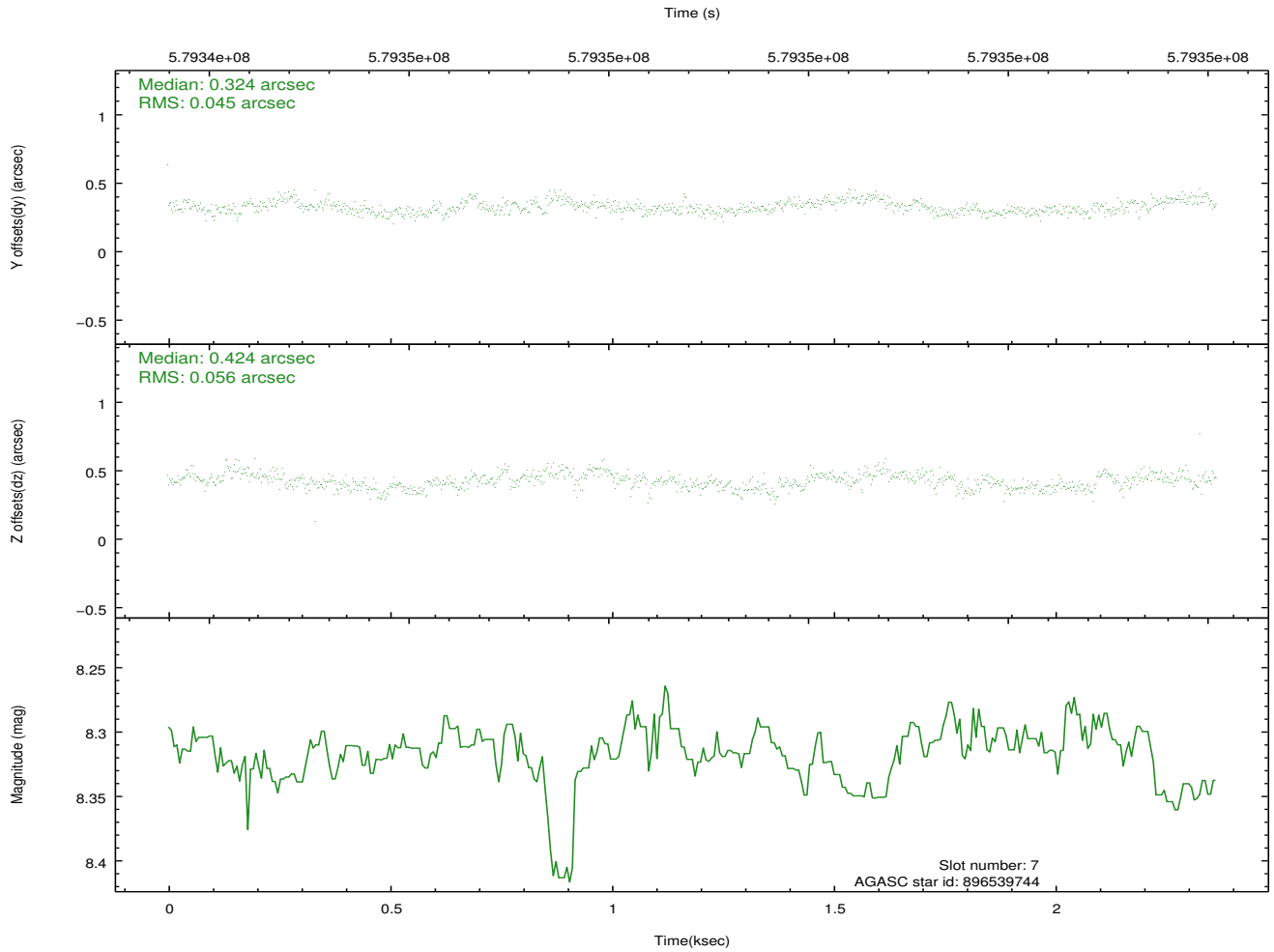
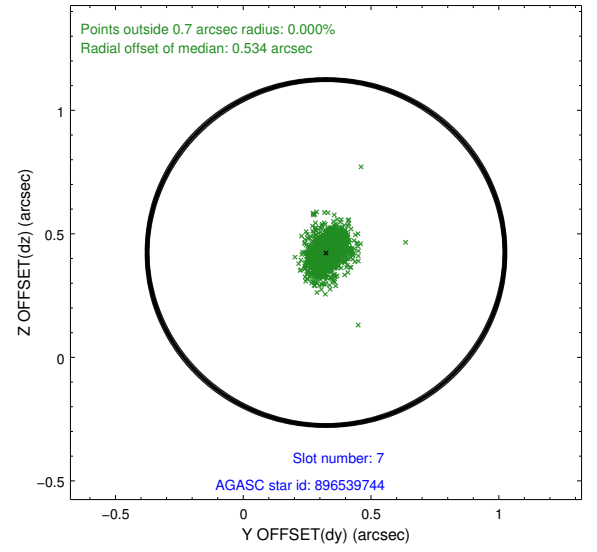
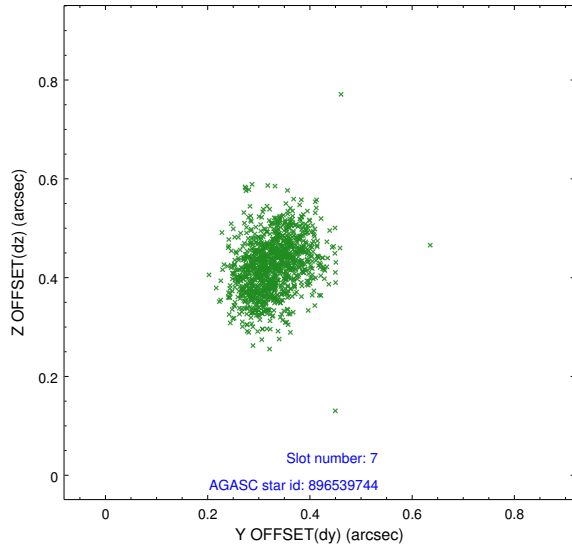
2.4.3 Slot 5



2.4.4 Slot 6

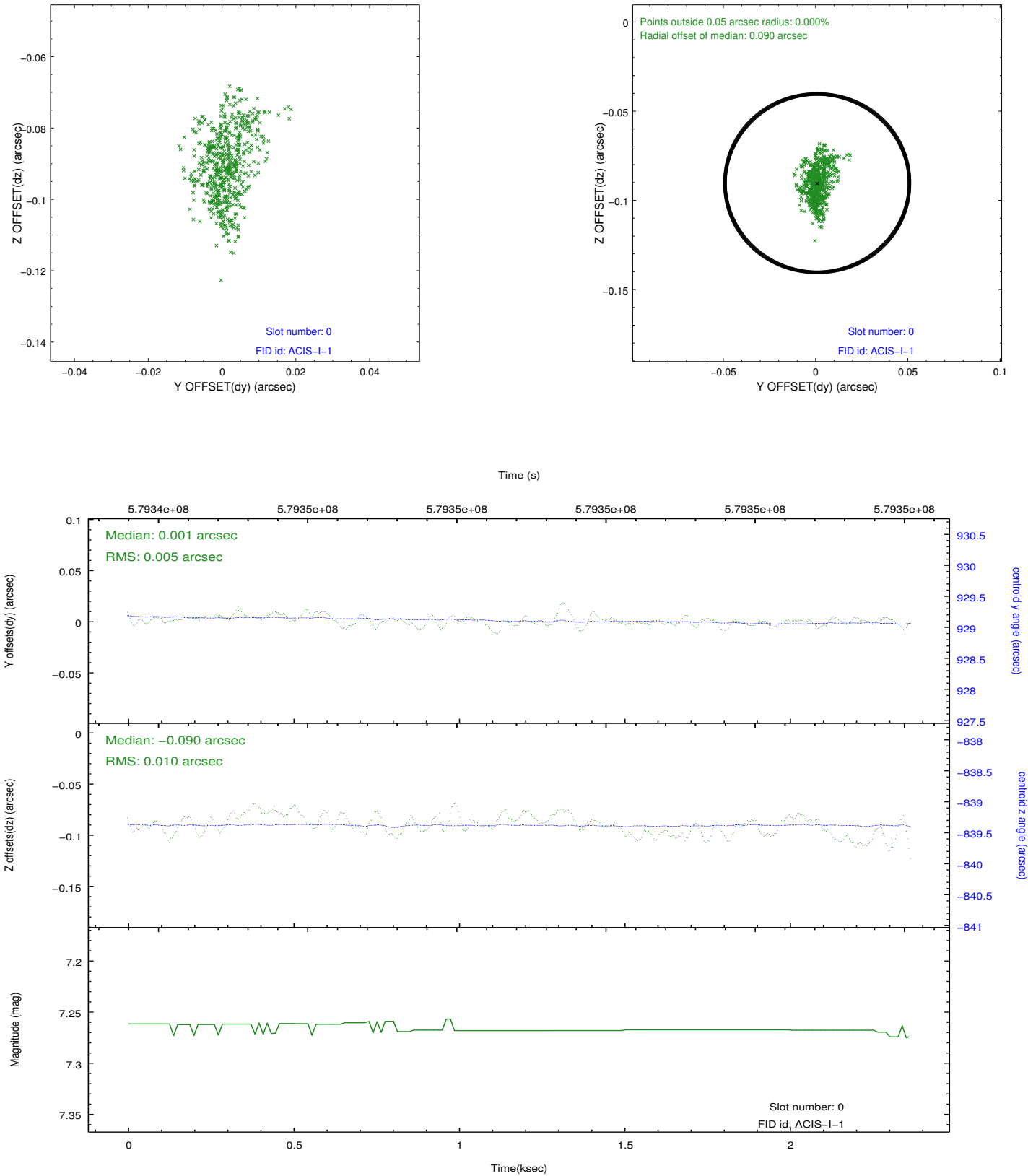


2.4.5 Slot 7

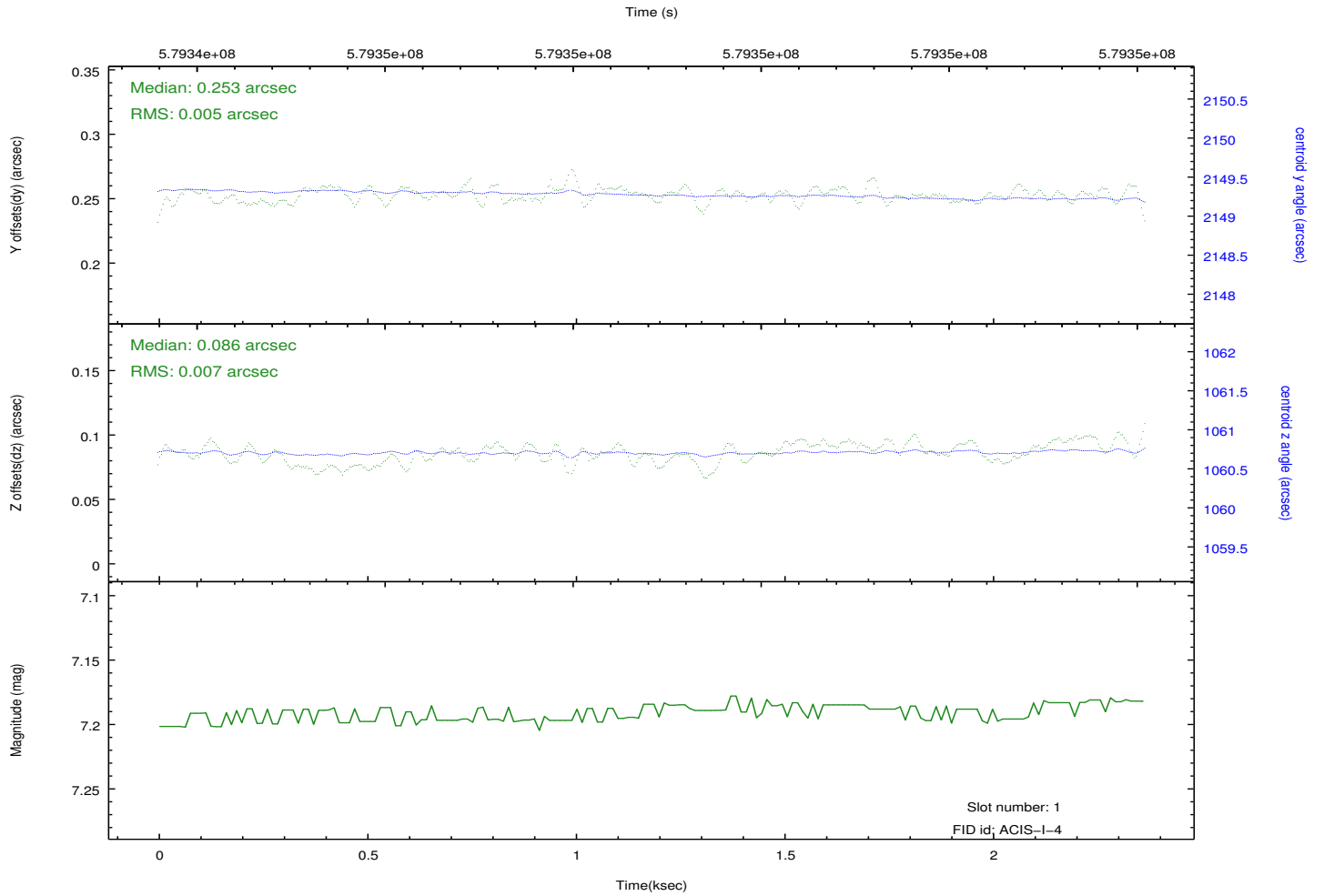
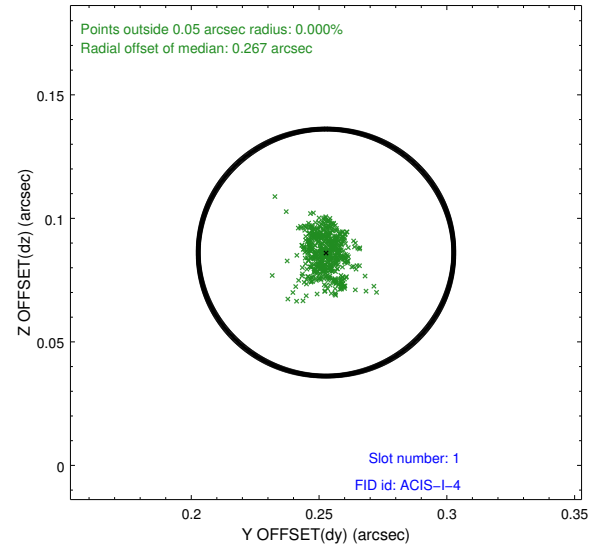
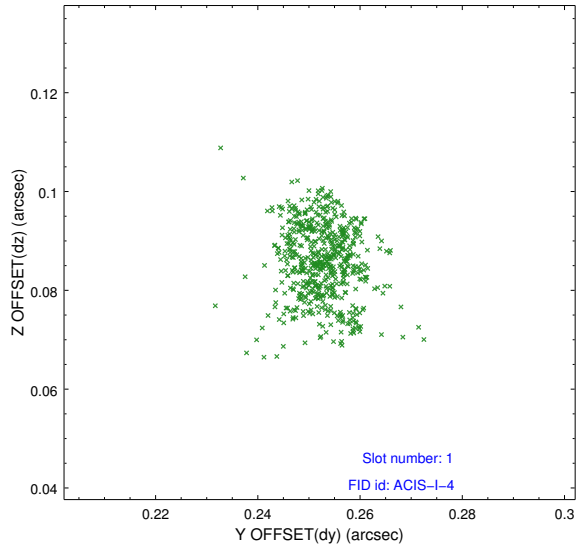


2.5 FID Slots

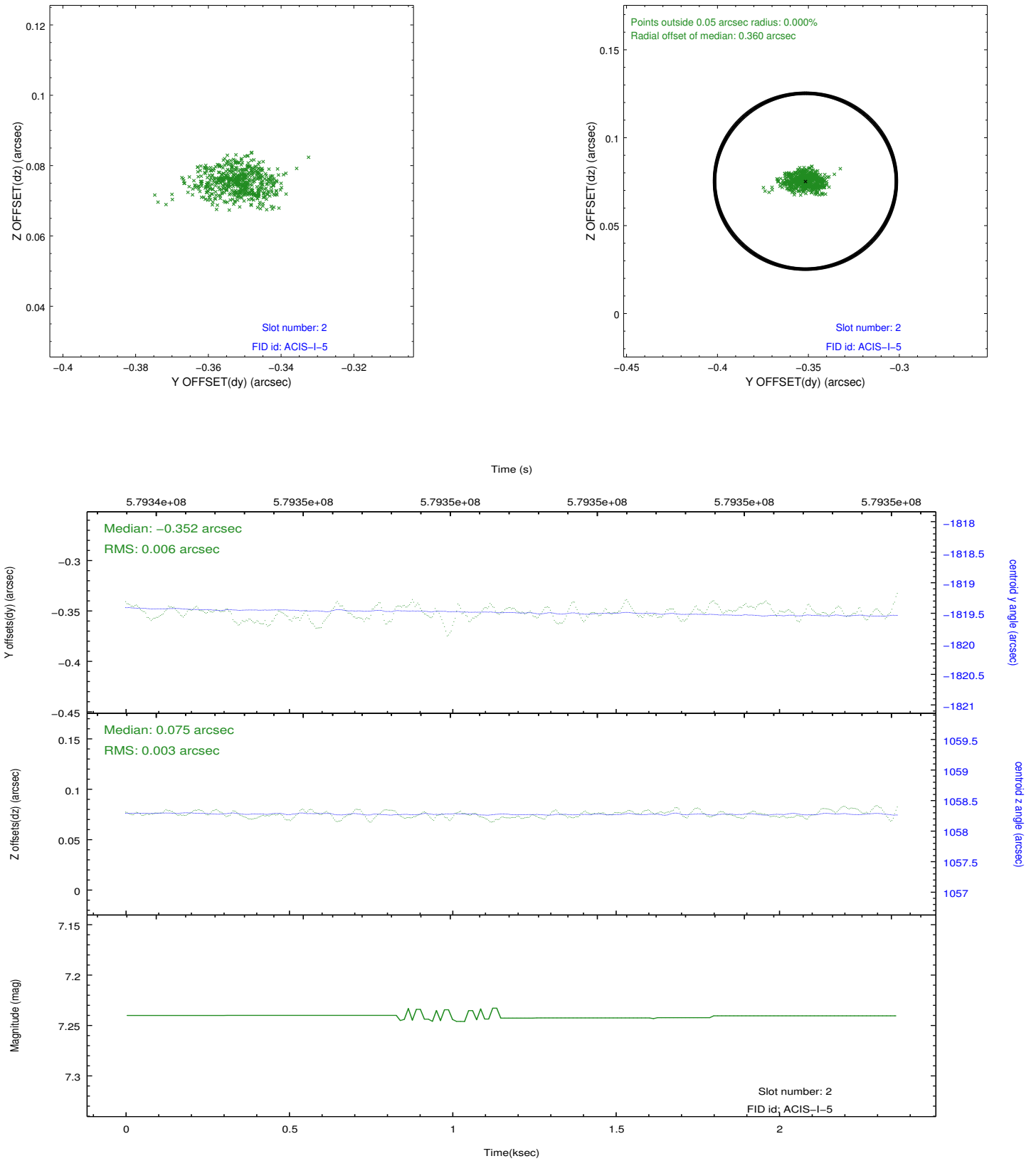
2.5.1 Slot 0



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)	2016.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9560155895948

A.2 Comments