

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17229 - L2 Version 1
Chandra X-Ray Center

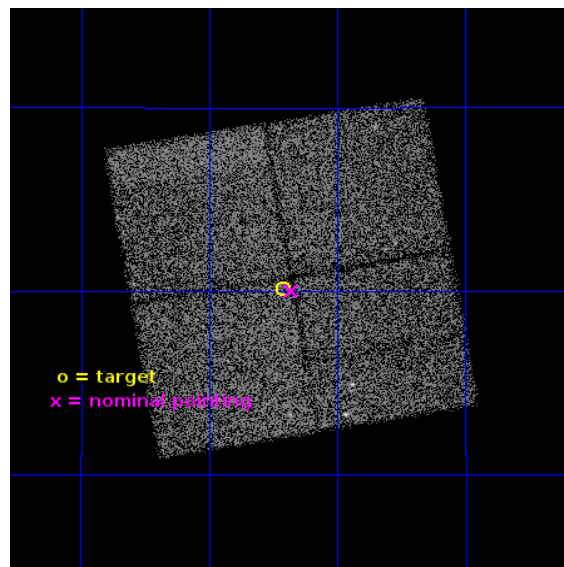
L2 Processing Date : Apr 14 2016

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1 Front

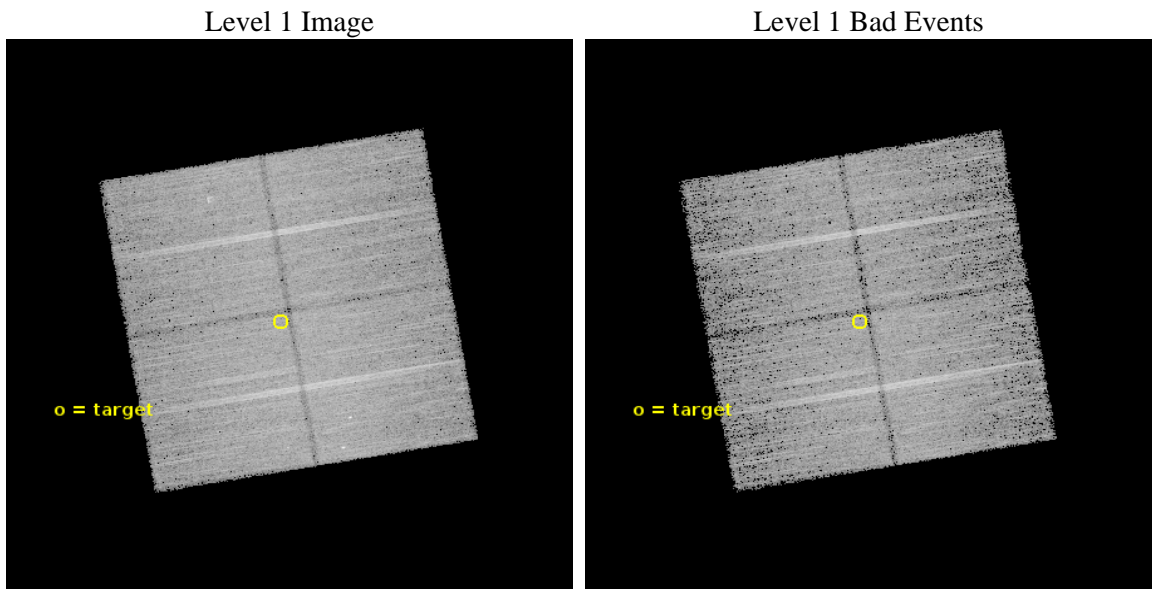
seq_num	801501	Sequence number
obs_id	17229	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.802742	Observer's specified target RA [deg]
dec_targ	26.668667	Observer's specified target Dec [deg]
ra_nom	207.79474541346	Nominal RA [deg]
dec_nom	26.667221541004	Nominal Dec [deg]
roll_nom	170.21229325328	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26085.223776102	Sum of GTIs [s]
livetime	25744.401123805	Livetime [s]
ontime0	26078.818555832	Sum of GTIs [s]
ontime1	26078.859625936	Sum of GTIs [s]
ontime2	26085.182736158	Sum of GTIs [s]
ontime3	26085.223776102	Sum of GTIs [s]
l2events	60312	Number of level 2 events



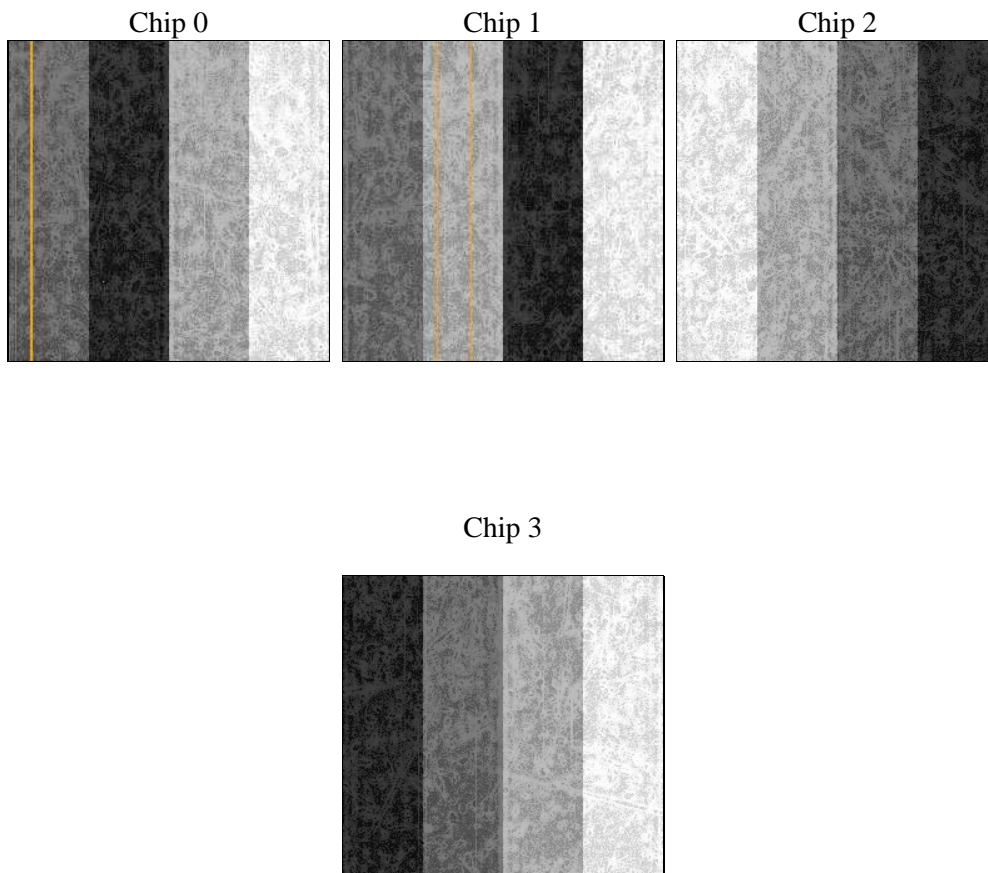
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	26085.223776102	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	26078.818555832	Sum of GTIs [s]
date	2016-04-14T14:13:05	Date and time of file creation	ontime1	26078.859625936	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26085.182736158	Sum of GTIs [s]
			ontime3	26085.223776102	Sum of GTIs [s]
			l1events	611846	Number of level 1 events

2.1.4 Events

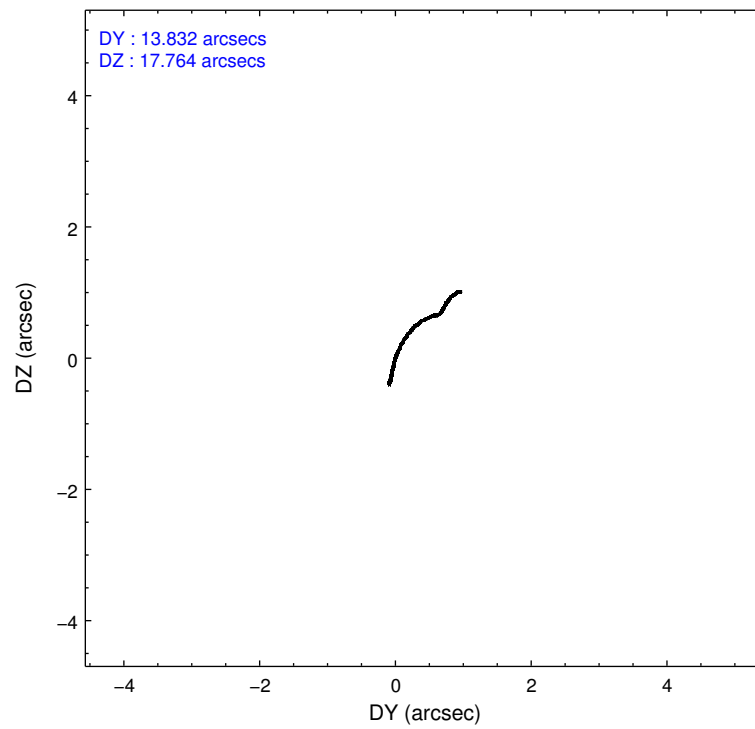
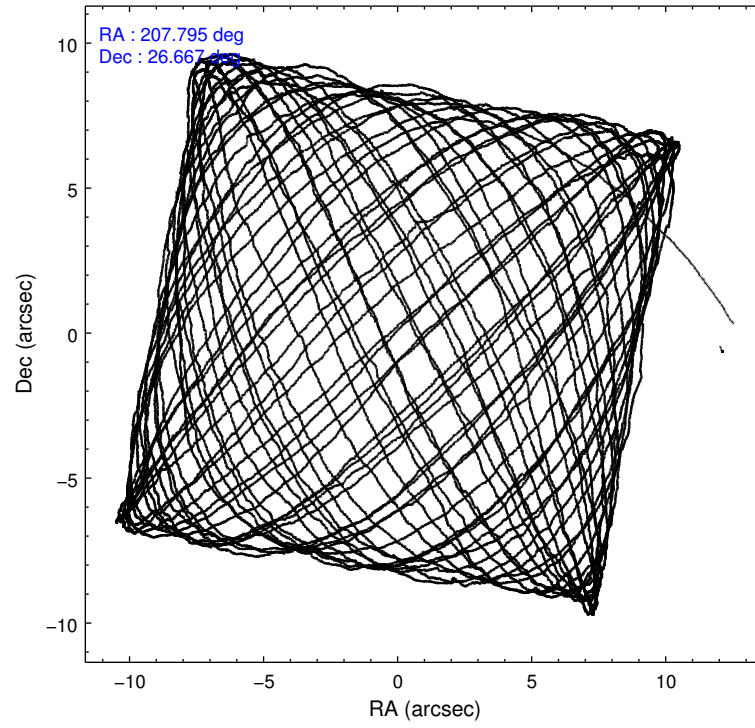
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	142936	146927	165973	156010
rejected events	125241	126974	148347	139017
rejected %	87%	86%	89%	89%

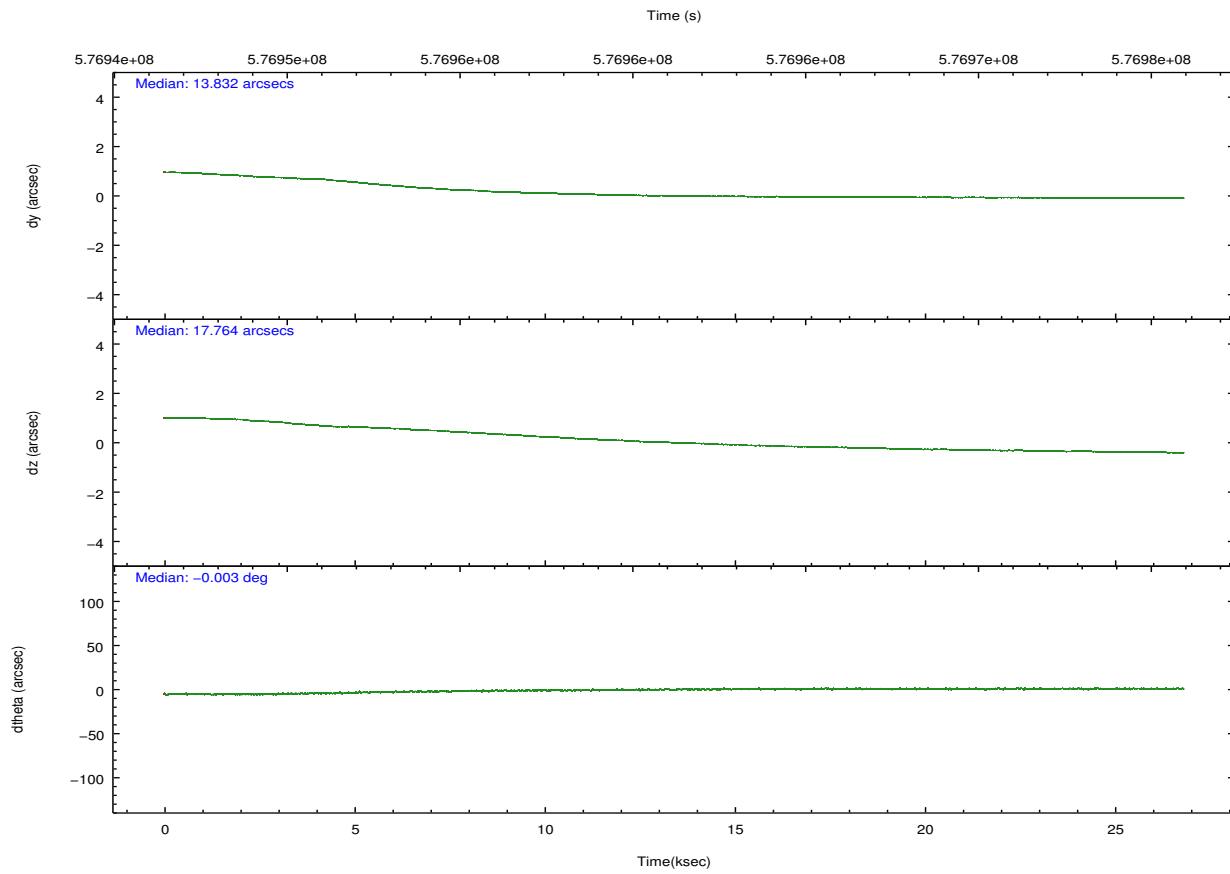
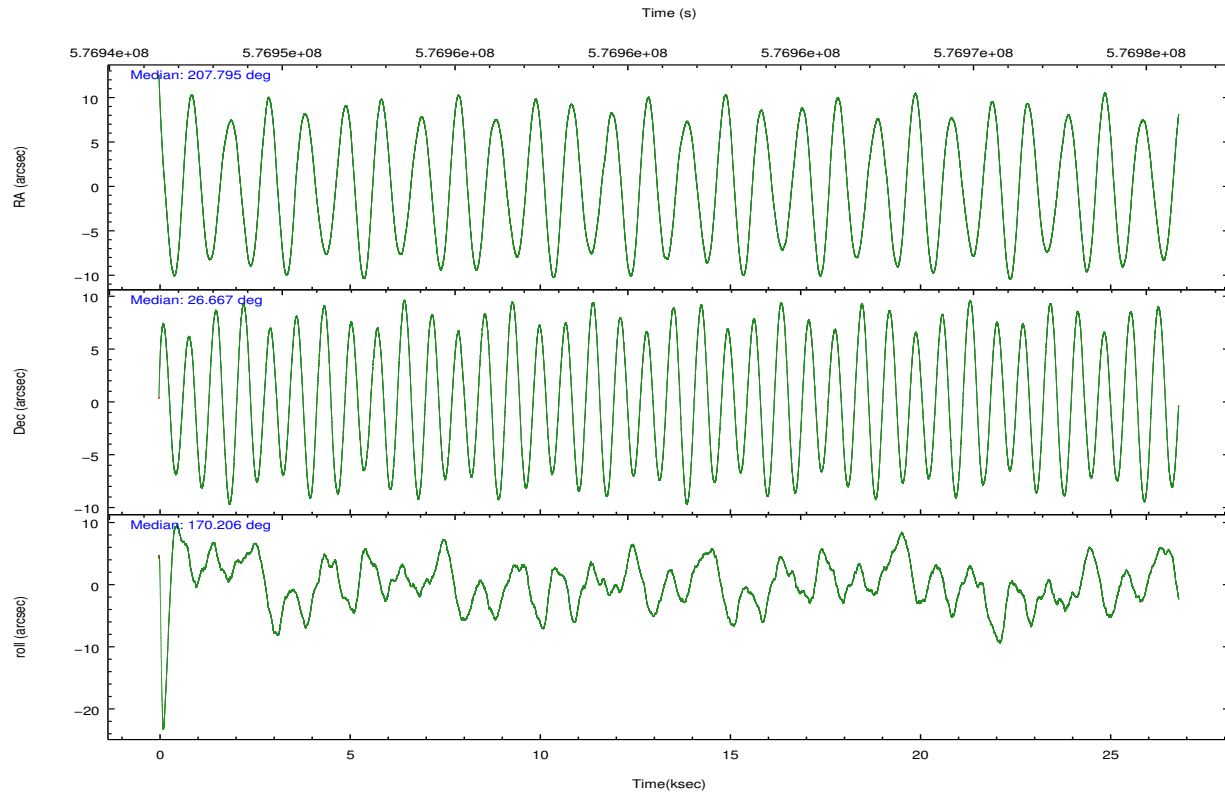
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5920	6824	6564	5968
	4%	4%	3%	3%
grade 1 events	84	83	87	107
	0%	0%	0%	0%
grade 2 events	4538	4895	4248	3833
	3%	3%	2%	2%
grade 3 events	1799	1871	1706	1750
	1%	1%	1%	1%
grade 4 events	1722	1853	1683	1846
	1%	1%	1%	1%
grade 5 events	6698	7107	6310	7615
	4%	4%	3%	4%
grade 6 events	3718	4515	3428	3598
	2%	3%	2%	2%
grade 7 events	118457	119779	141947	131293
	82%	81%	85%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	207.823707	207.7947454134555	CCD I2 on	Y	Y
[deg] Pointing Dec	26.676854	26.66722154100385	CCD I3 on	Y	Y
[deg] Pointing Roll	169.990589	170.2122932532751	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	N
[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)	576948564.184000	576946711.0477	CCD S5 on	N	N
Observation start date	2016-04-13T15:28:16	2016-04-13T14:58:31	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	576974564.184000	576975225.52433	On-chip summing requested	N	N
Observation end date	2016-04-13T22:41:36	2016-04-13T22:53:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





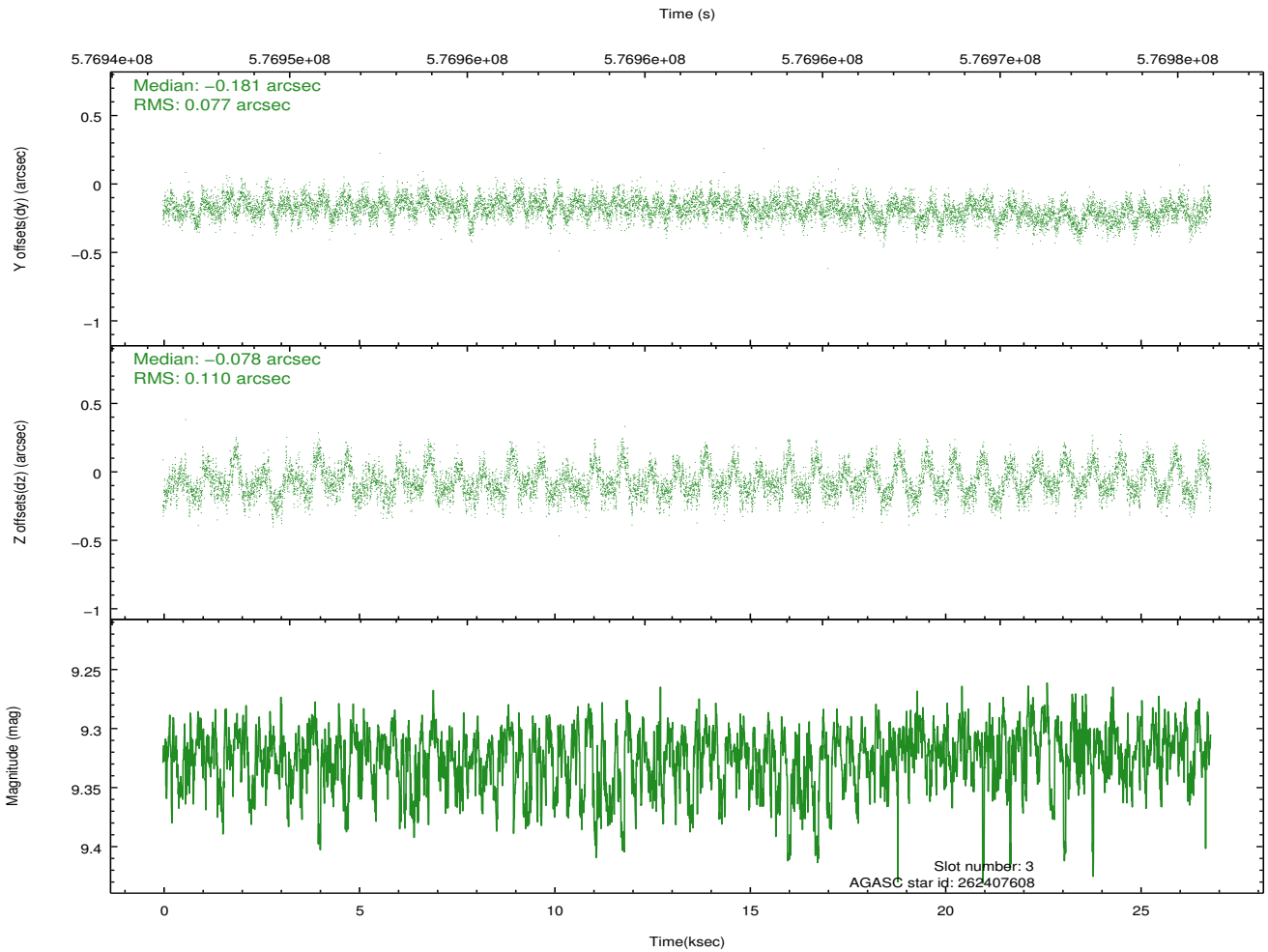
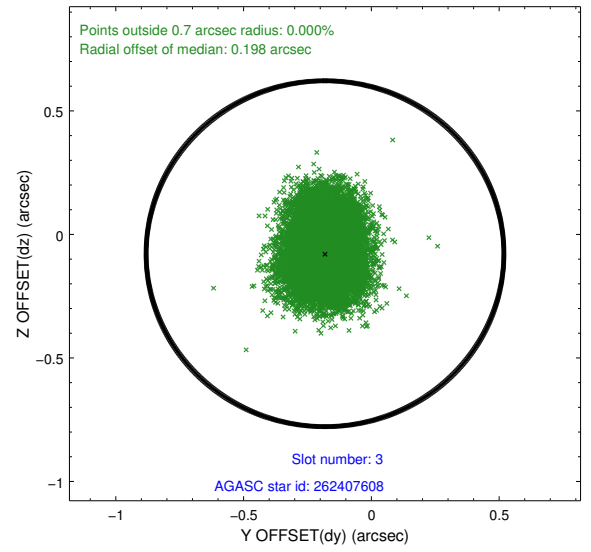
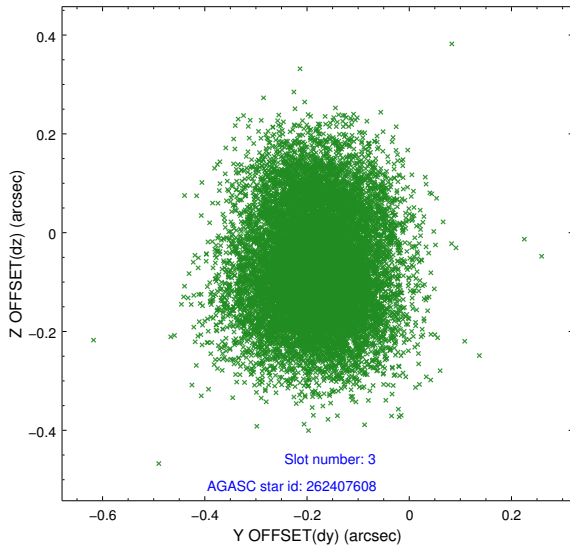
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	6542	0.082	-0.037	0.025	0.052	0.000000	0.000000	925.58	-841.59
1	FID		ACIS-I-5	7.26	6542	-0.333	0.050	0.009	0.023	0.000000	0.000000	-1822.94	1055.85
2	FID		ACIS-I-6	7.25	6542	0.158	0.056	0.023	0.041	0.000000	0.000000	391.02	1700.54
3	GUIDE	used	262407608	9.32	13074	-0.181	-0.078	0.144	0.231	207.378401	26.435507	1262.93	1103.07
4	GUIDE	used	262408512	7.99	13076	0.025	0.075	0.132	0.203	207.800210	27.128796	357.63	-1588.69
5	GUIDE	used	262408936	9.66	13060	0.045	-0.212	0.214	0.408	207.154731	26.726554	2150.42	192.44
6	GUIDE	used	262409648	8.36	13077	0.197	0.270	0.150	0.235	208.329010	27.087208	-1337.49	-1739.88
7	GUIDE	used	262414456	9.28	13077	-0.082	-0.076	0.128	0.214	208.043290	26.129682	-1041.36	1816.12

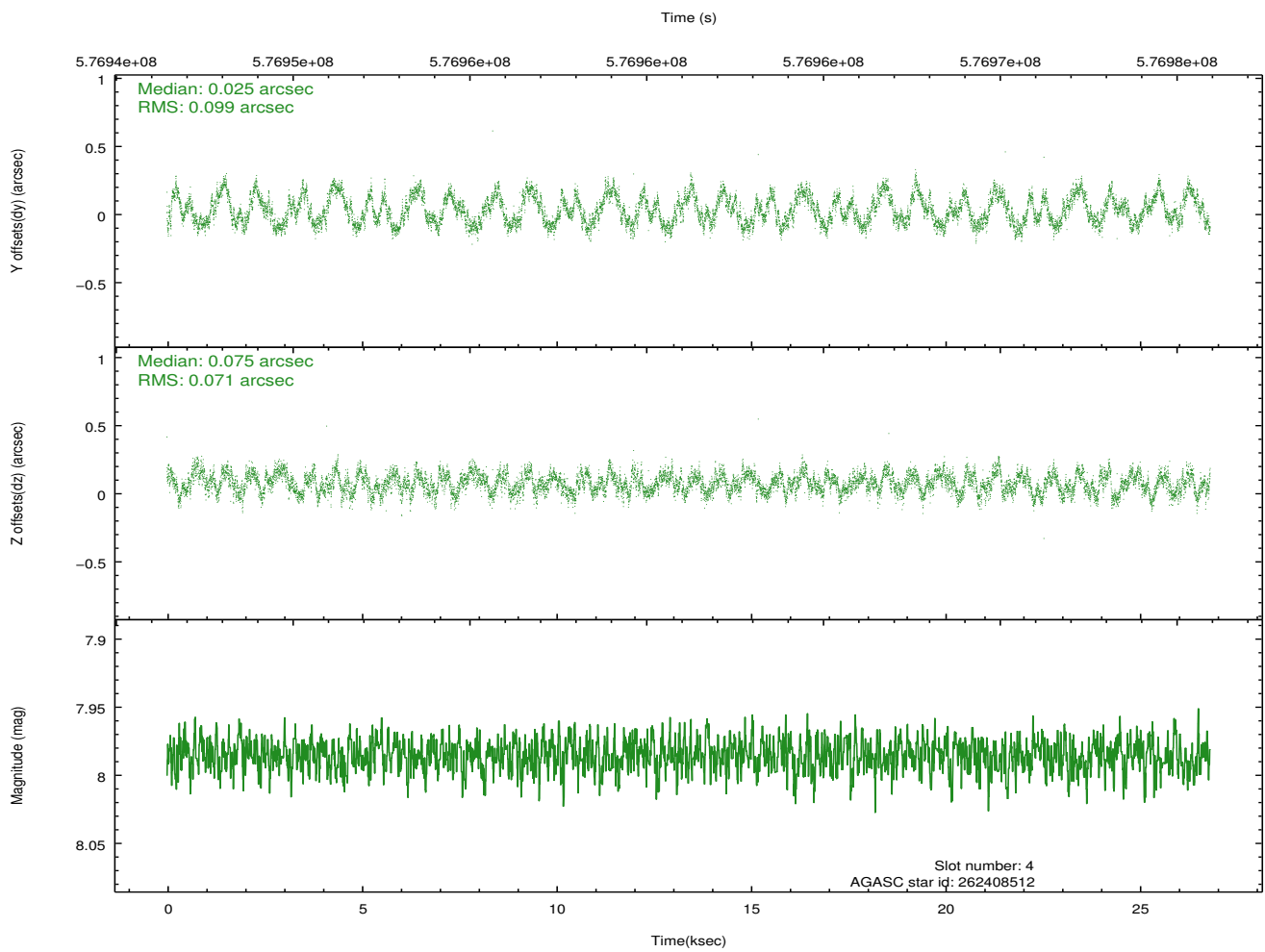
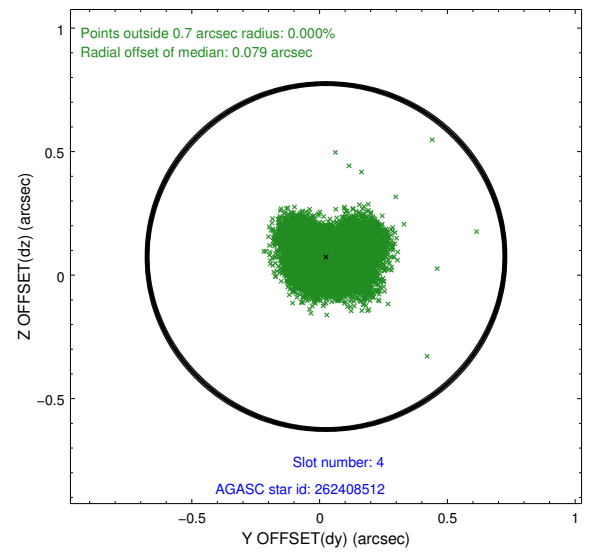
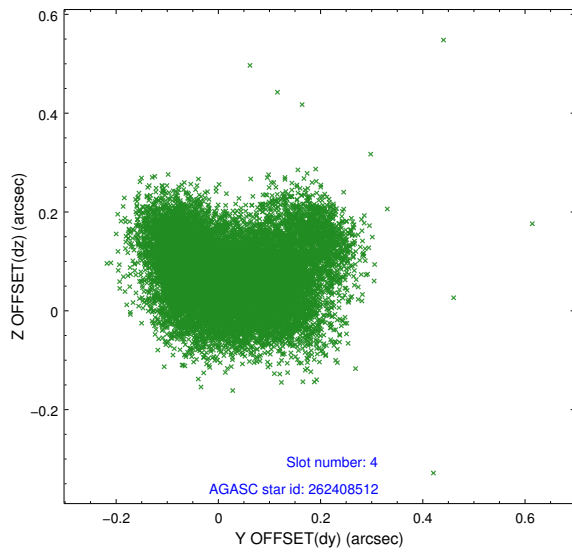
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2.4 Star Slots

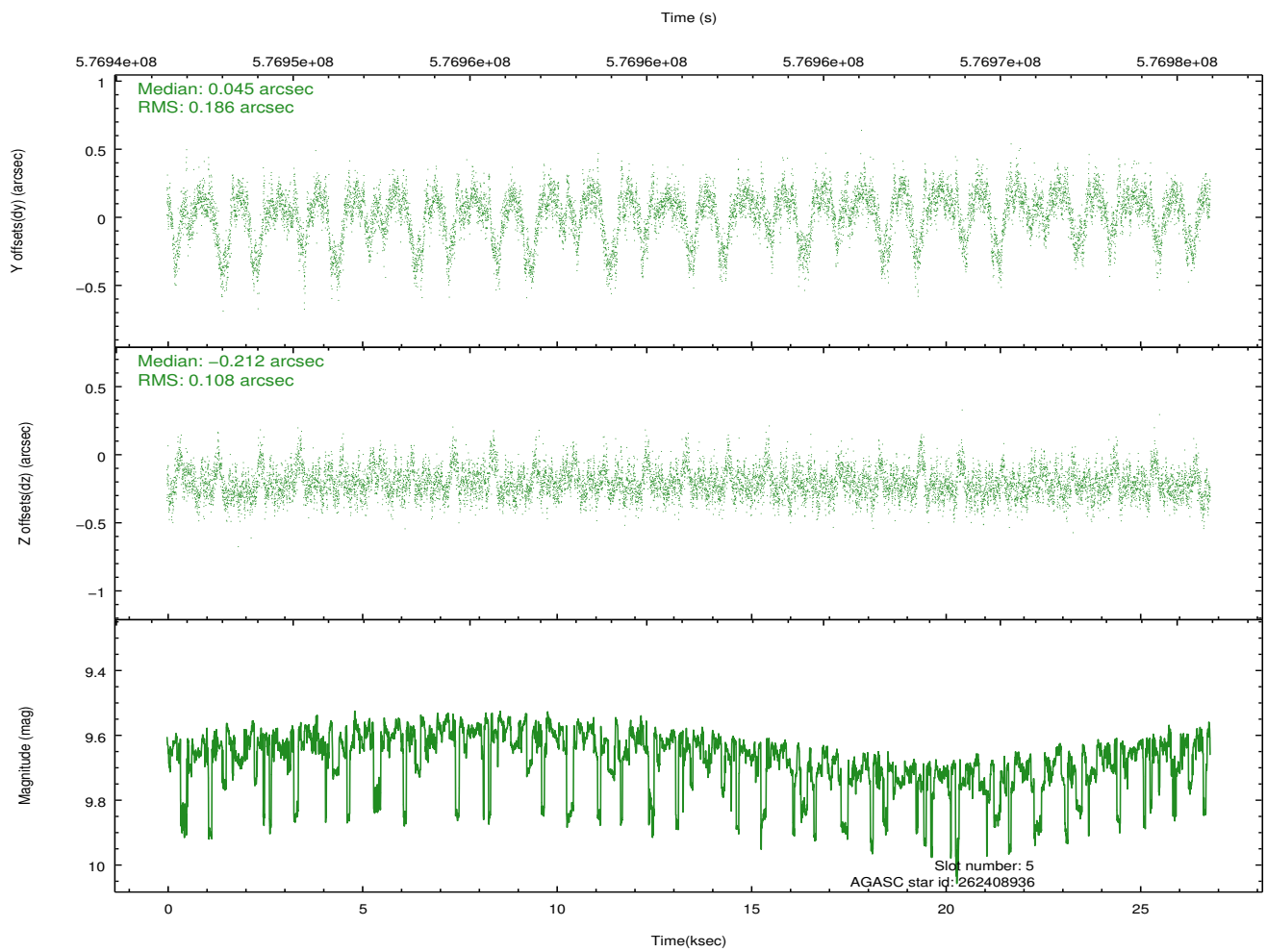
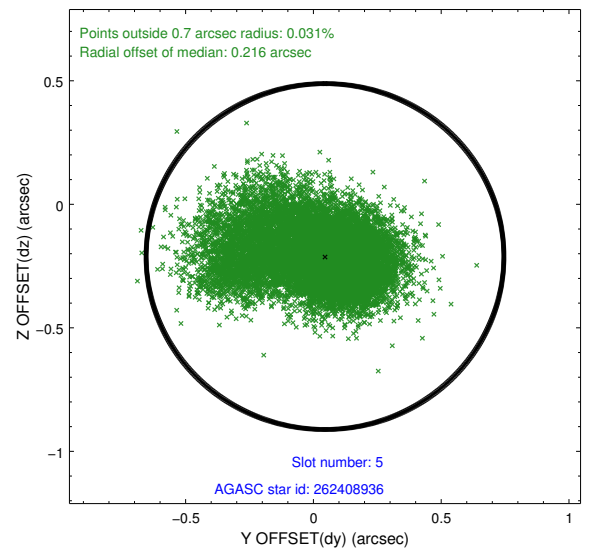
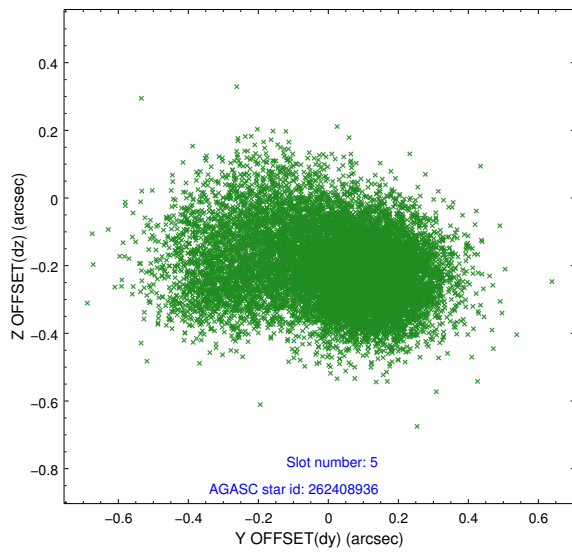
2.4.1 Slot 3



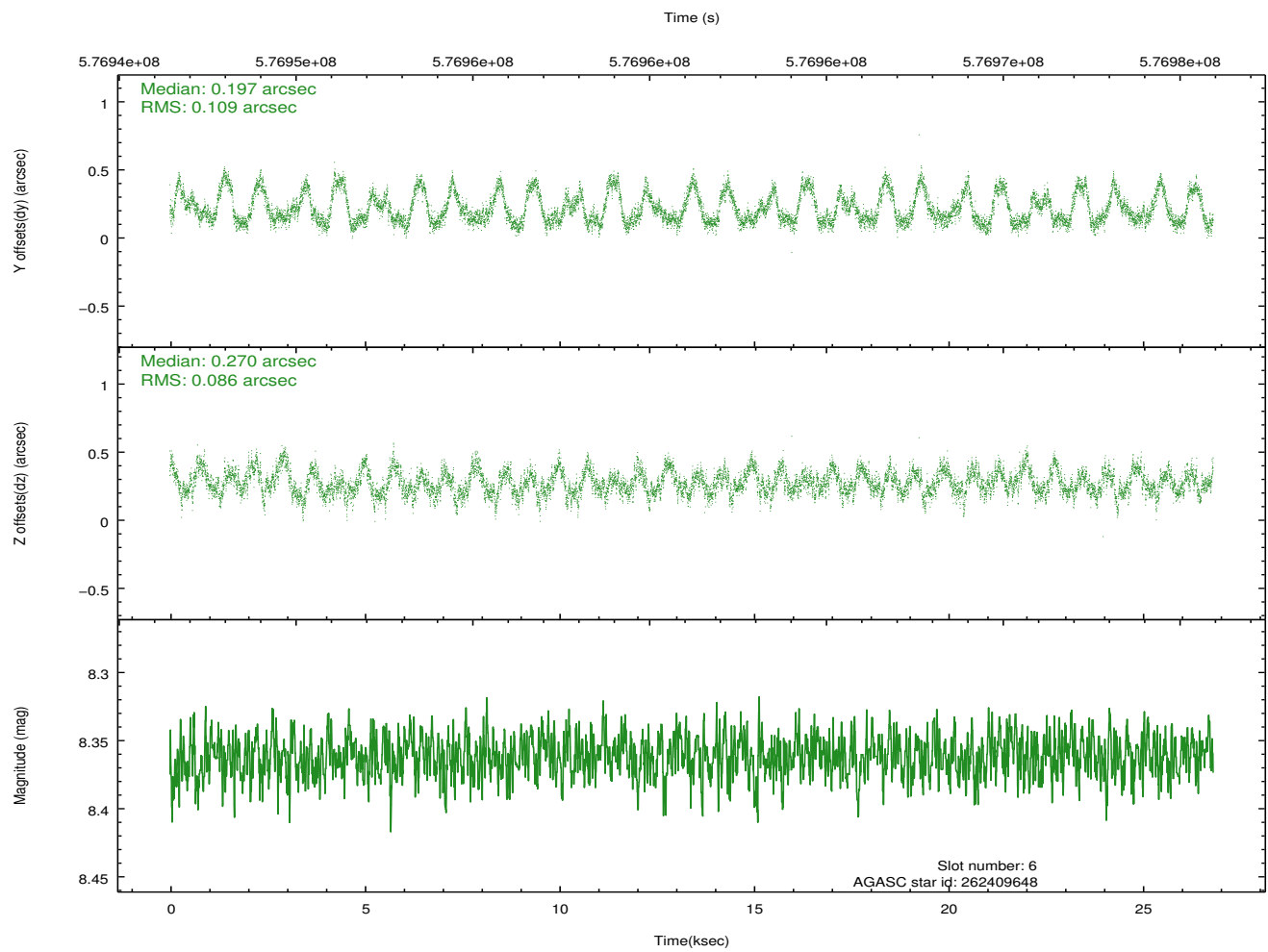
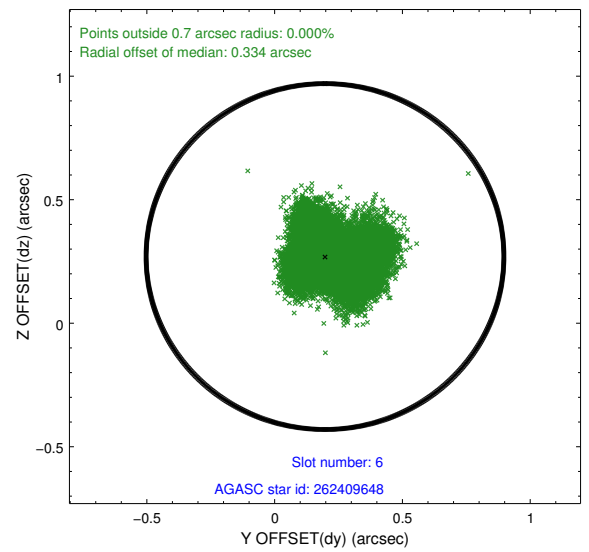
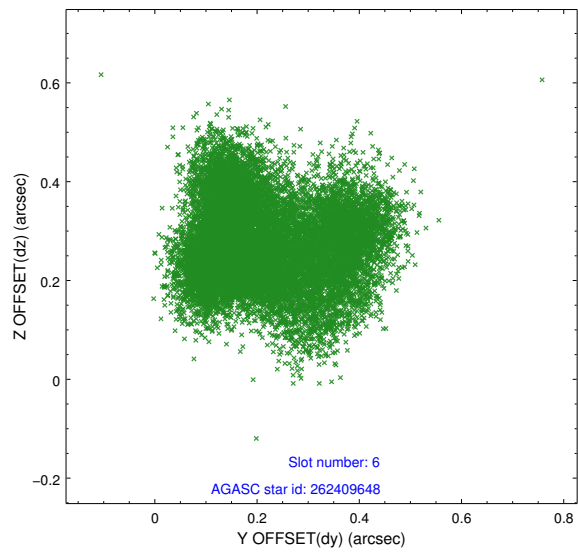
2.4.2 Slot 4



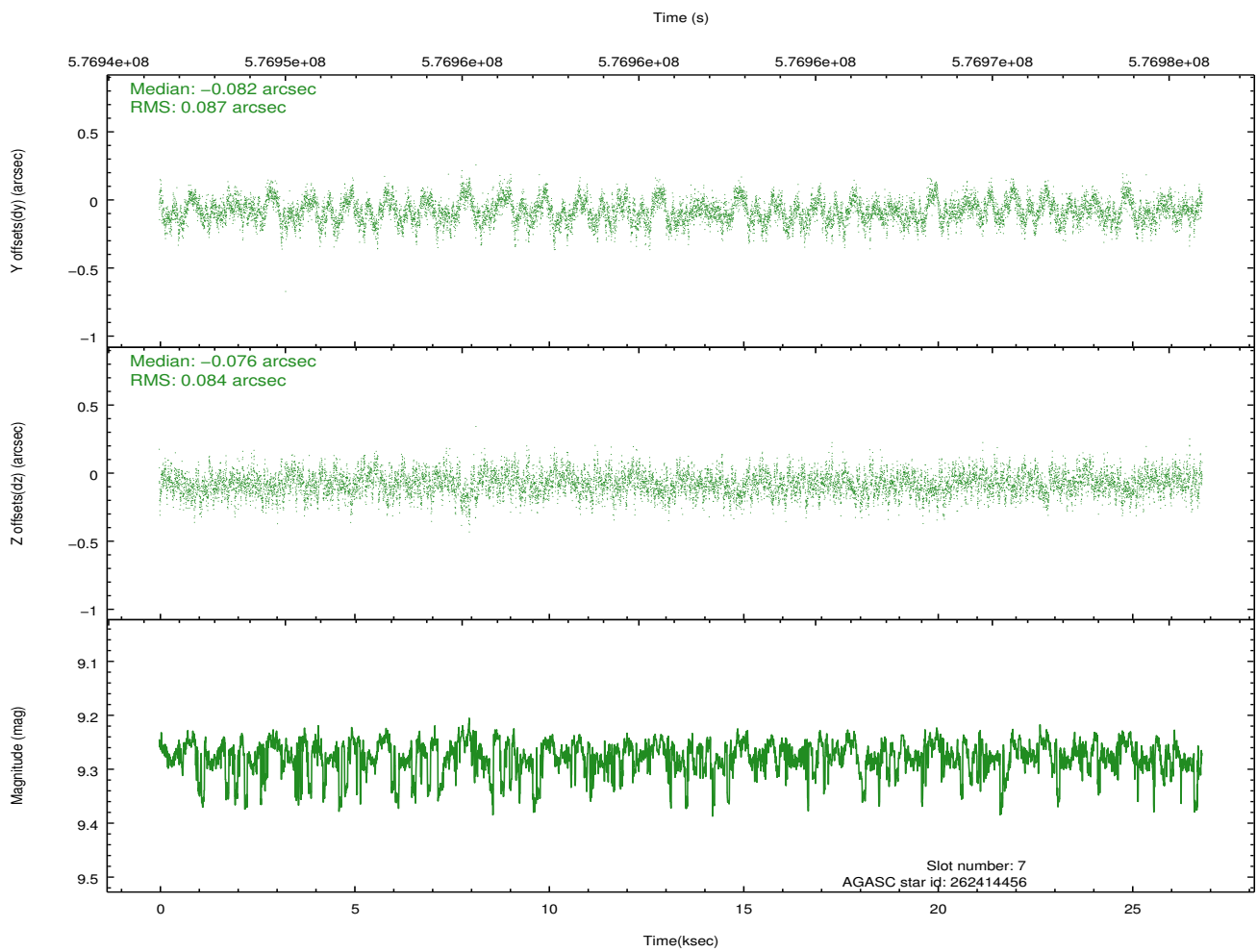
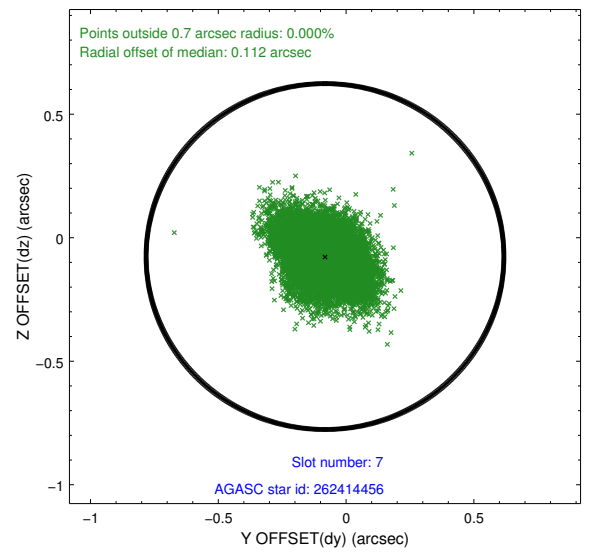
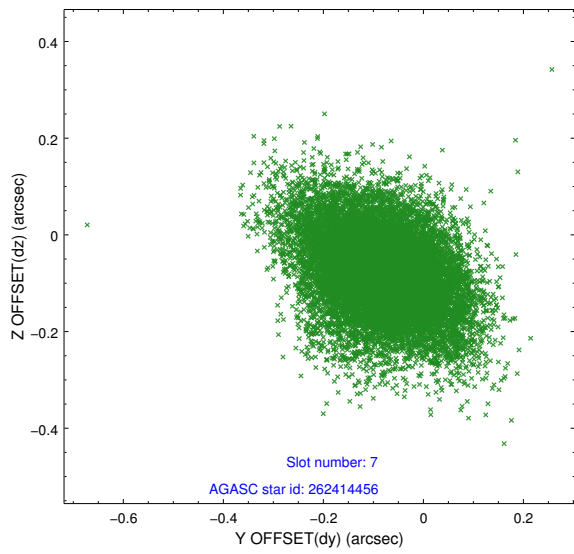
2.4.3 Slot 5



2.4.4 Slot 6

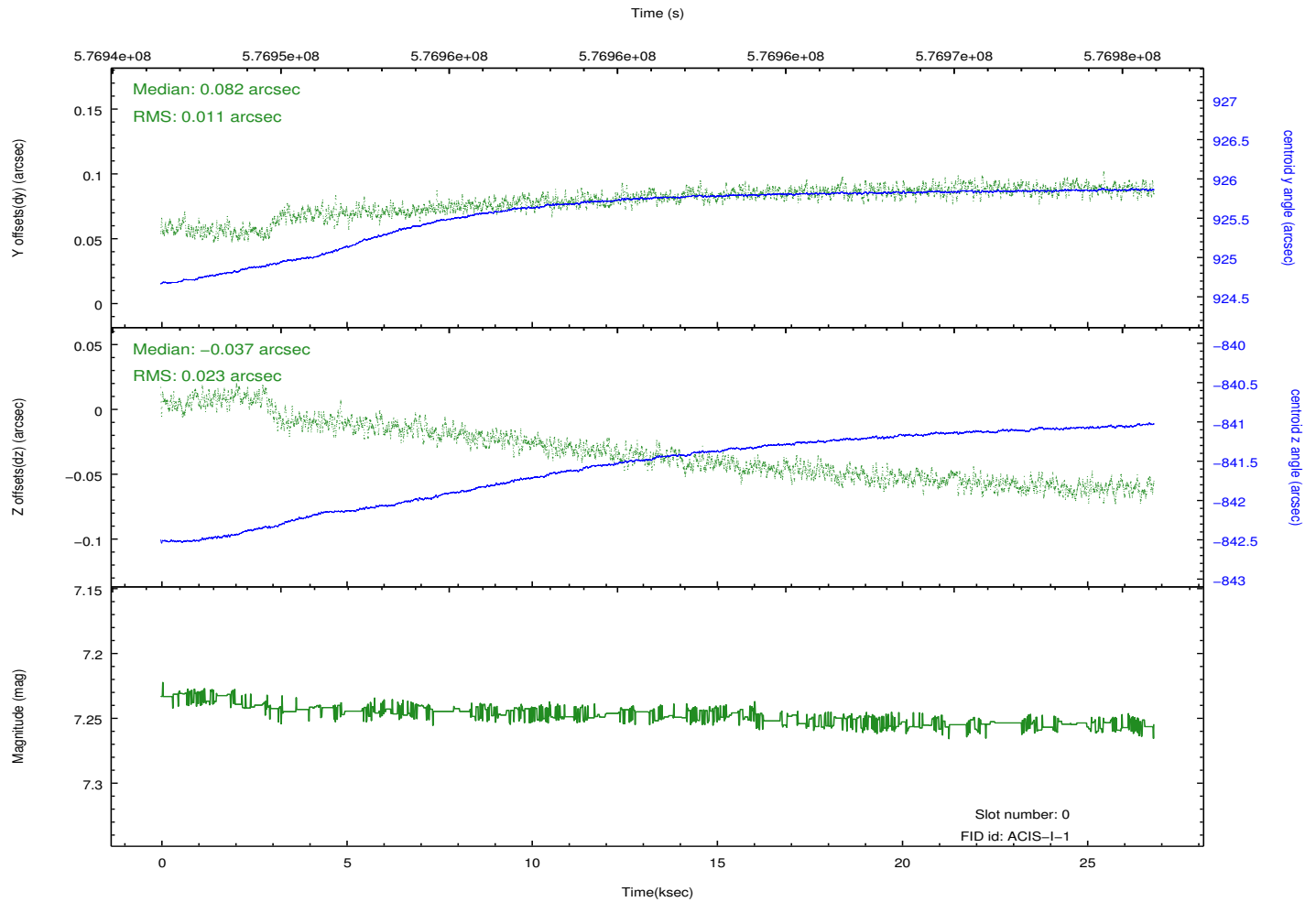
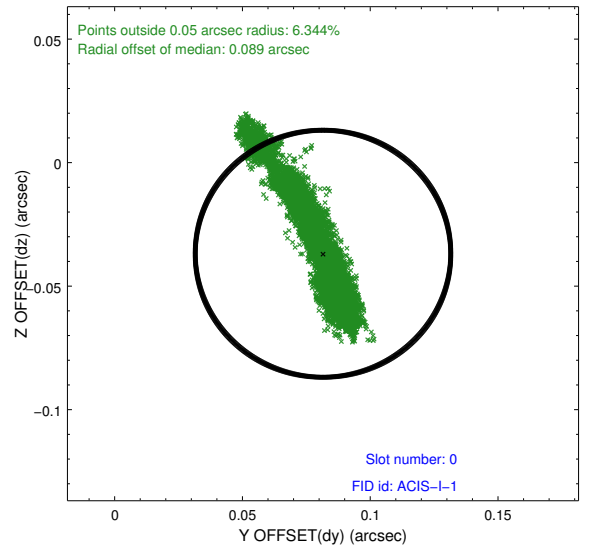
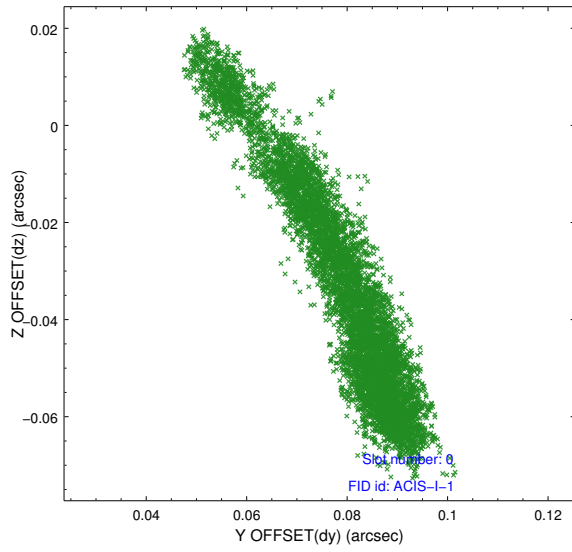


2.4.5 Slot 7

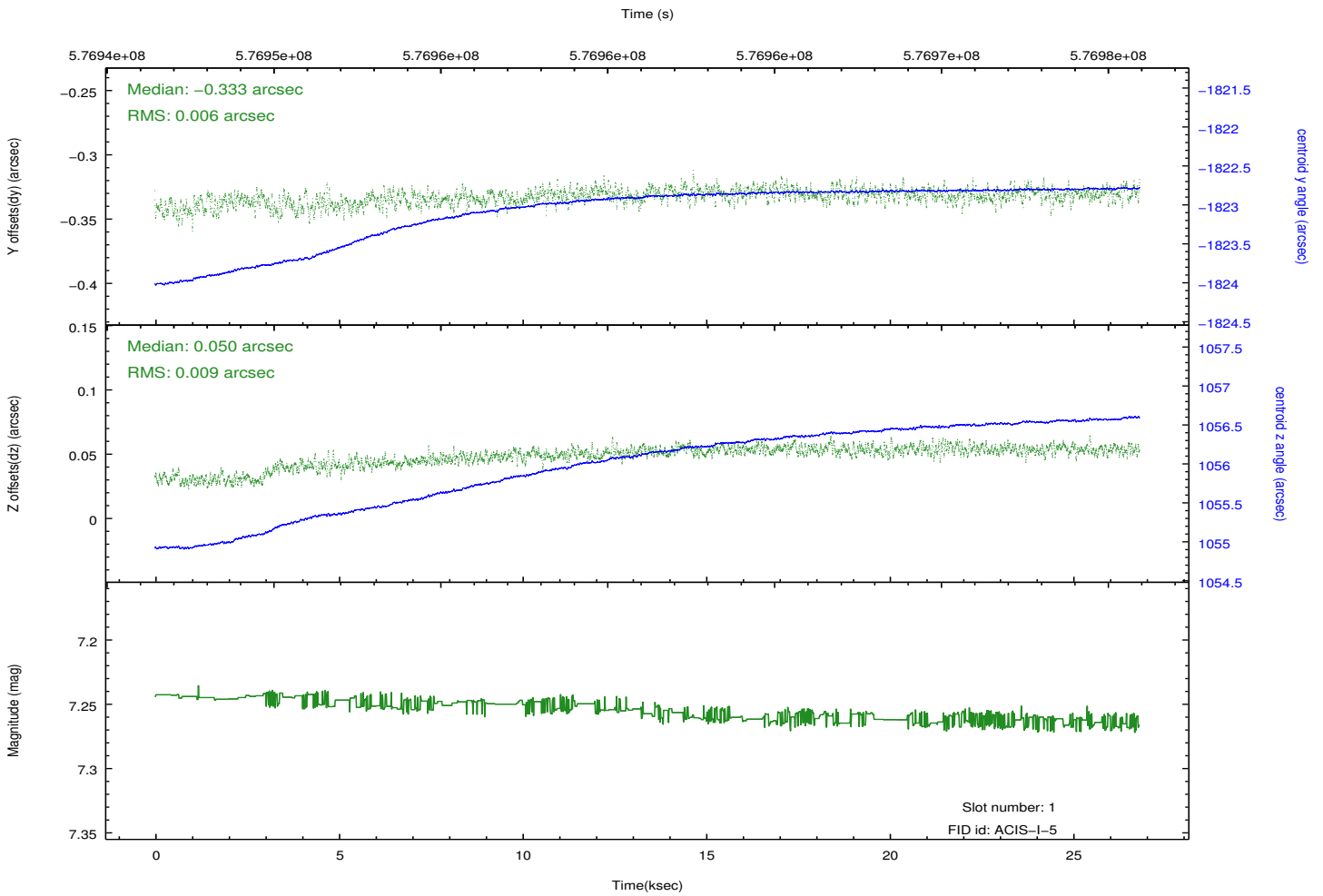
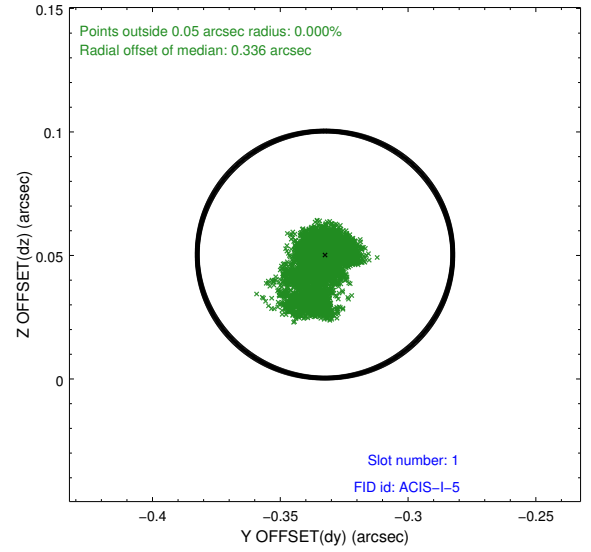
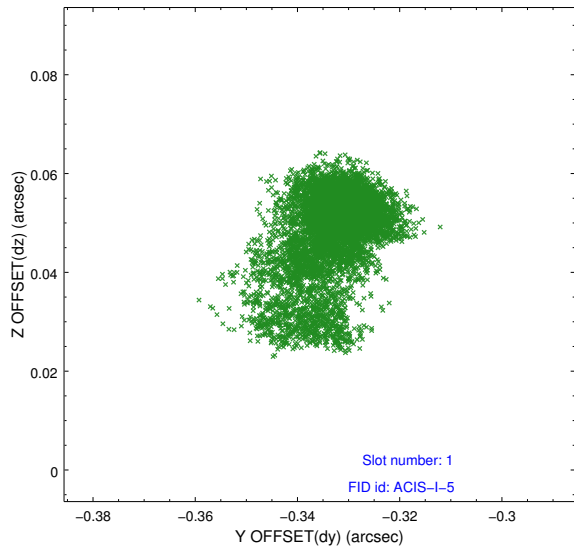


2.5 FID Slots

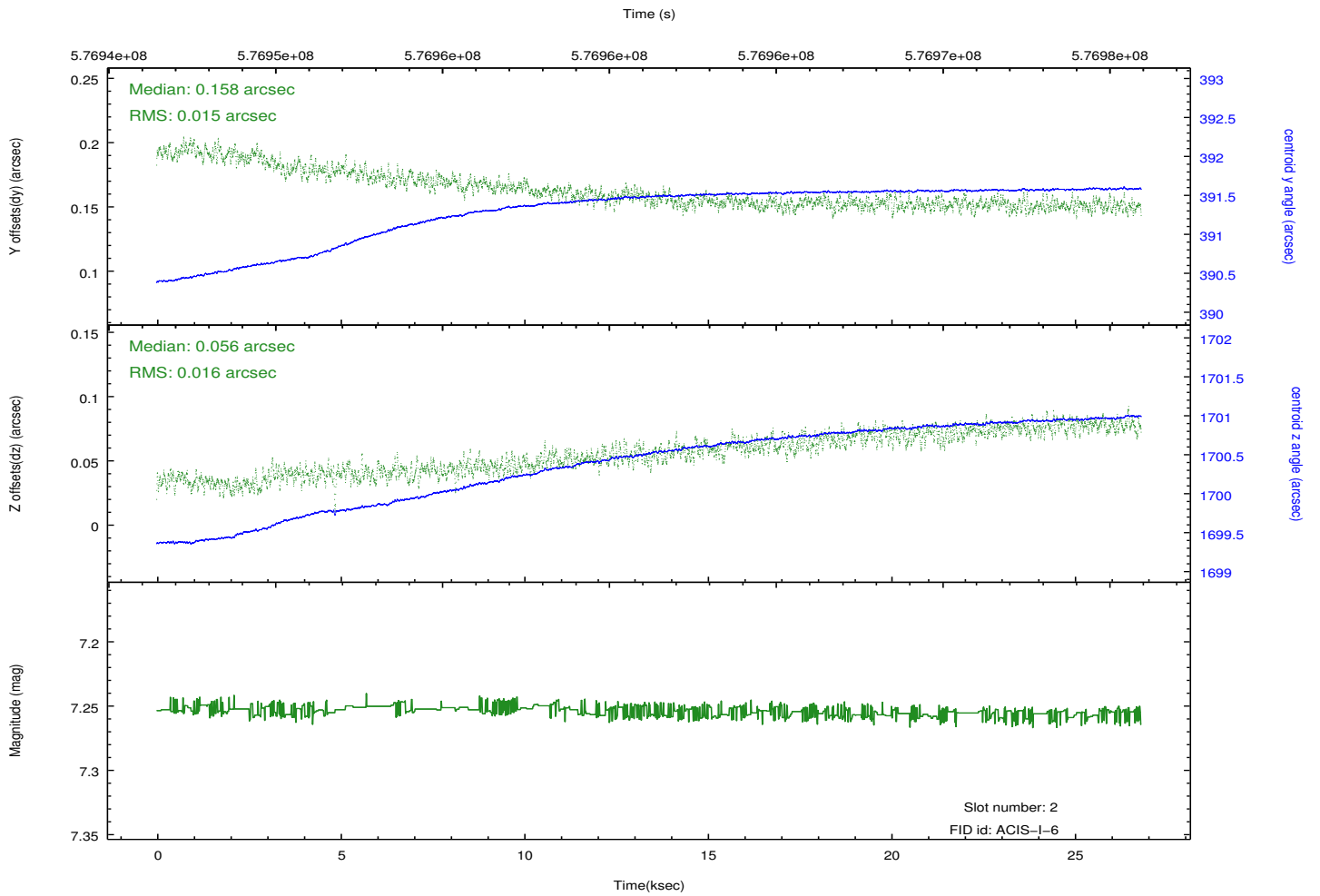
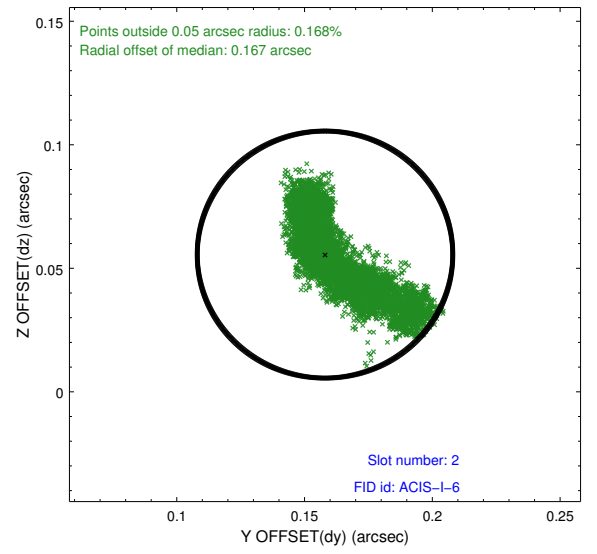
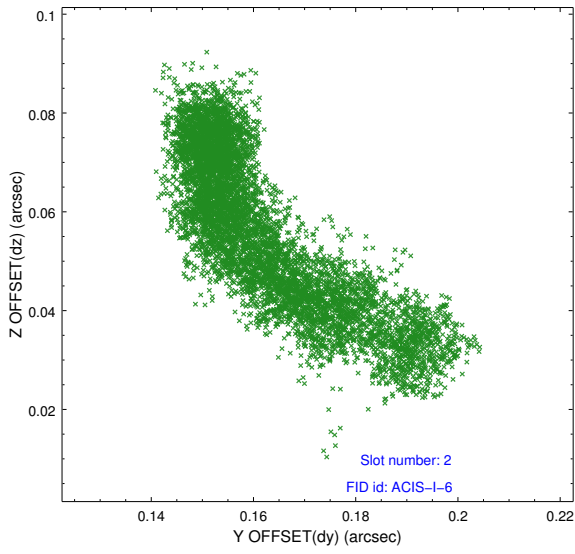
2.5.1 Slot 0



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)	2016.04.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.085223776102

A.2 Comments

Optional chip S2 was dropped.