

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22022 - L2 Version 1
Chandra X-Ray Center

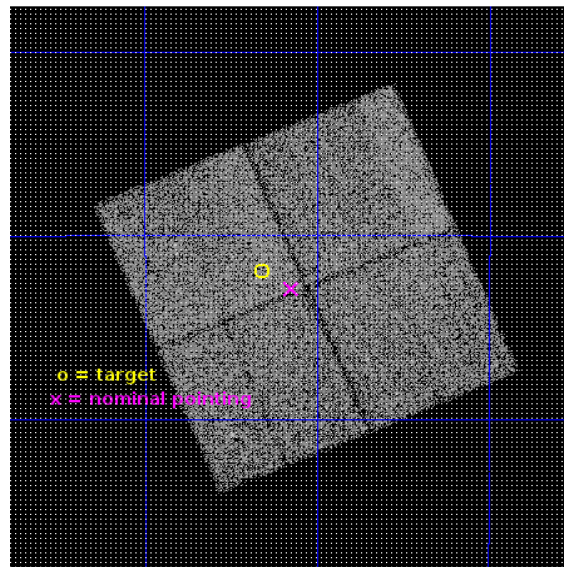
L2 Processing Date : Jan 17 2019

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1 Front

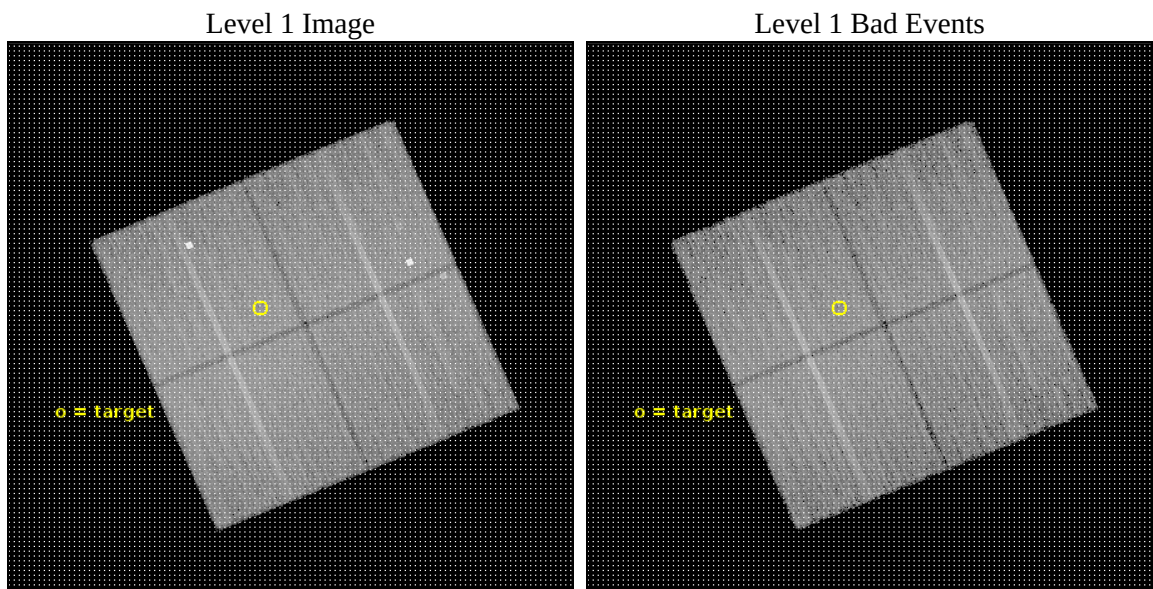
seq_num	801837	Sequence number
obs_id	22022	Observation id
title	Studying the Progenitors of Our Favorite Clusters at $z > 1$	Proposa
observer	Michael McDonald	Principal investigator
object	SPT-CLJ2259-5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.83	Observer's specified target RA [deg]
dec_targ	-53.033	Observer's specified target Dec [deg]
ra_nom	344.78736810351	Nominal RA [deg]
dec_nom	-53.048460246154	Nominal Dec [deg]
roll_nom	247.17461101124	Nominal Roll [deg]
revision	1	Processing version of data
ontime	34077.173338175	Sum of GTIs [s]
livetime	33631.929981262	Livetime [s]
ontime0	34073.909218073	Sum of GTIs [s]
ontime1	34077.091258168	Sum of GTIs [s]
ontime2	34073.99126792	Sum of GTIs [s]
ontime3	34077.173338175	Sum of GTIs [s]
l2events	96906	Number of level 2 events



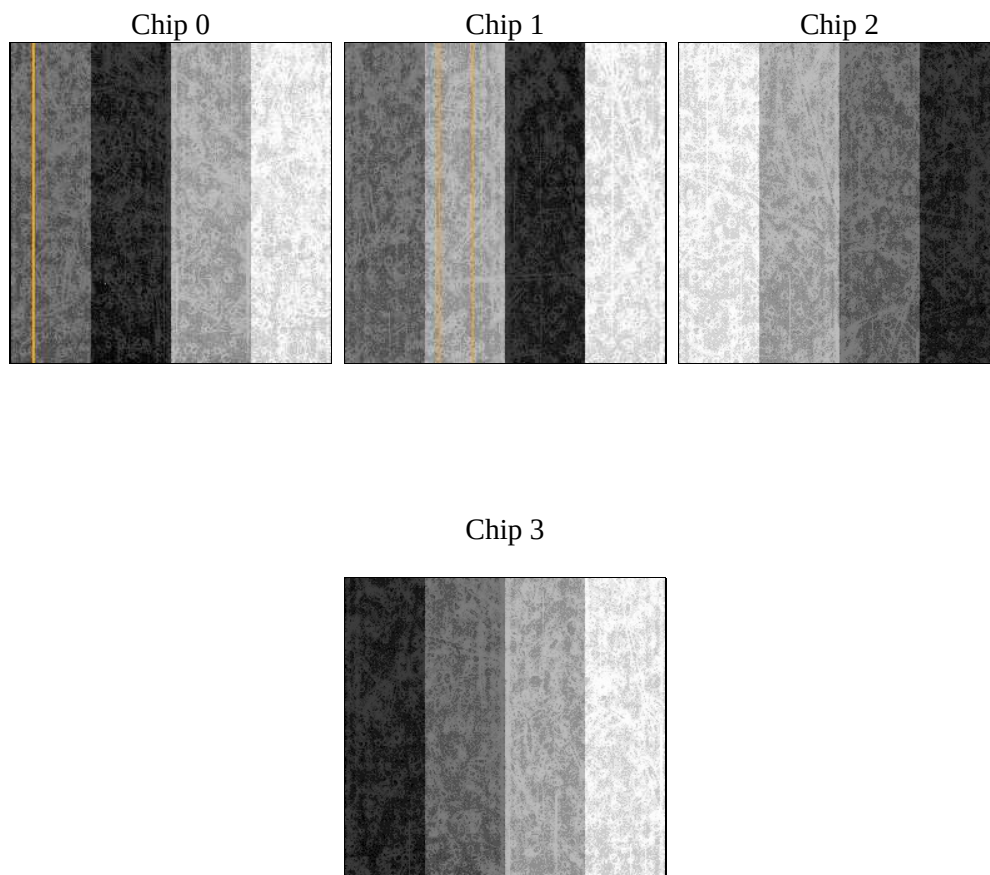
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	34077.173338175	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	34073.909218073	Sum of GTIs [s]
date	2019-01-17T08:01:01	Date and time of file creation	ontime1	34077.091258168	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	34073.99126792	Sum of GTIs [s]
			ontime3	34077.173338175	Sum of GTIs [s]
			l1events	1015377	Number of level 1 events

2.1.4 Events

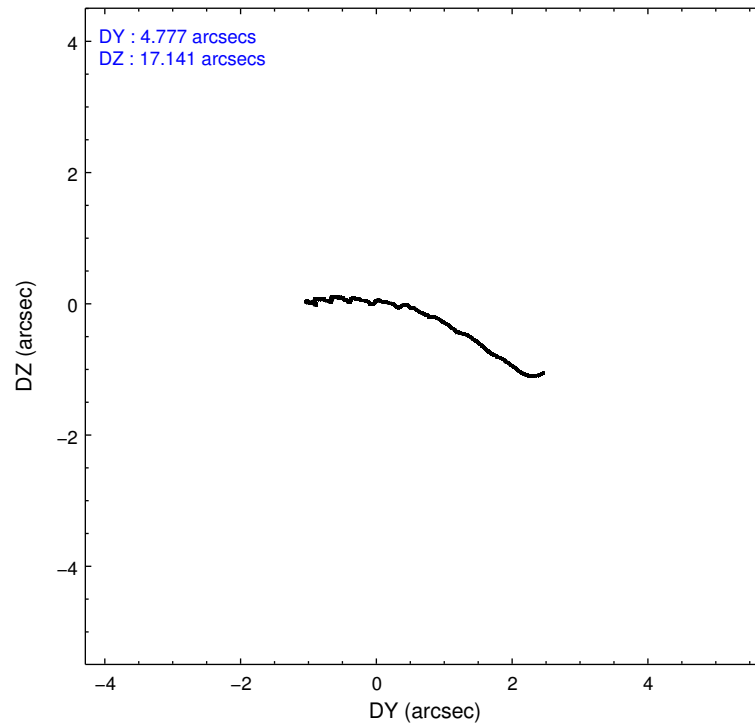
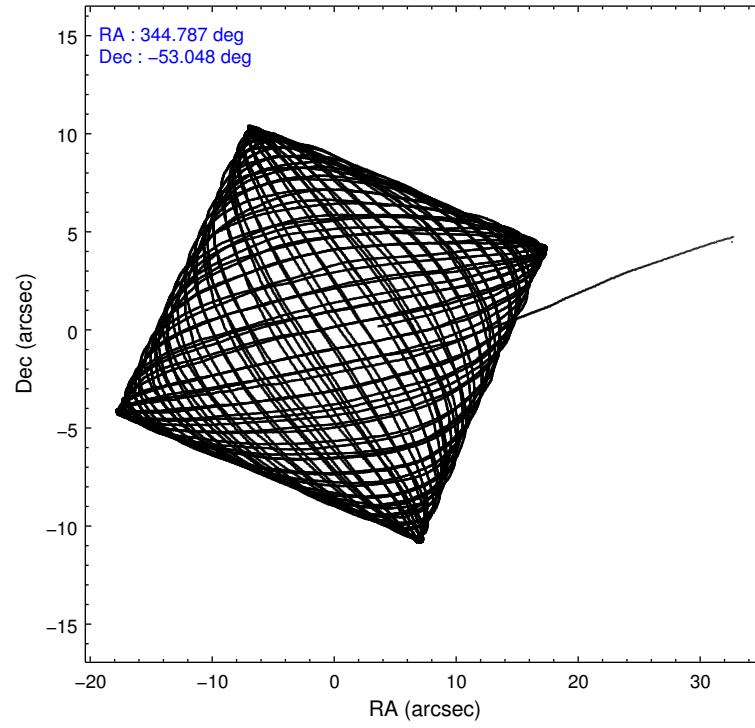
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	235884	249206	264811	265476
rejected events	206576	207056	236854	227282
rejected %	87%	83%	89%	85%

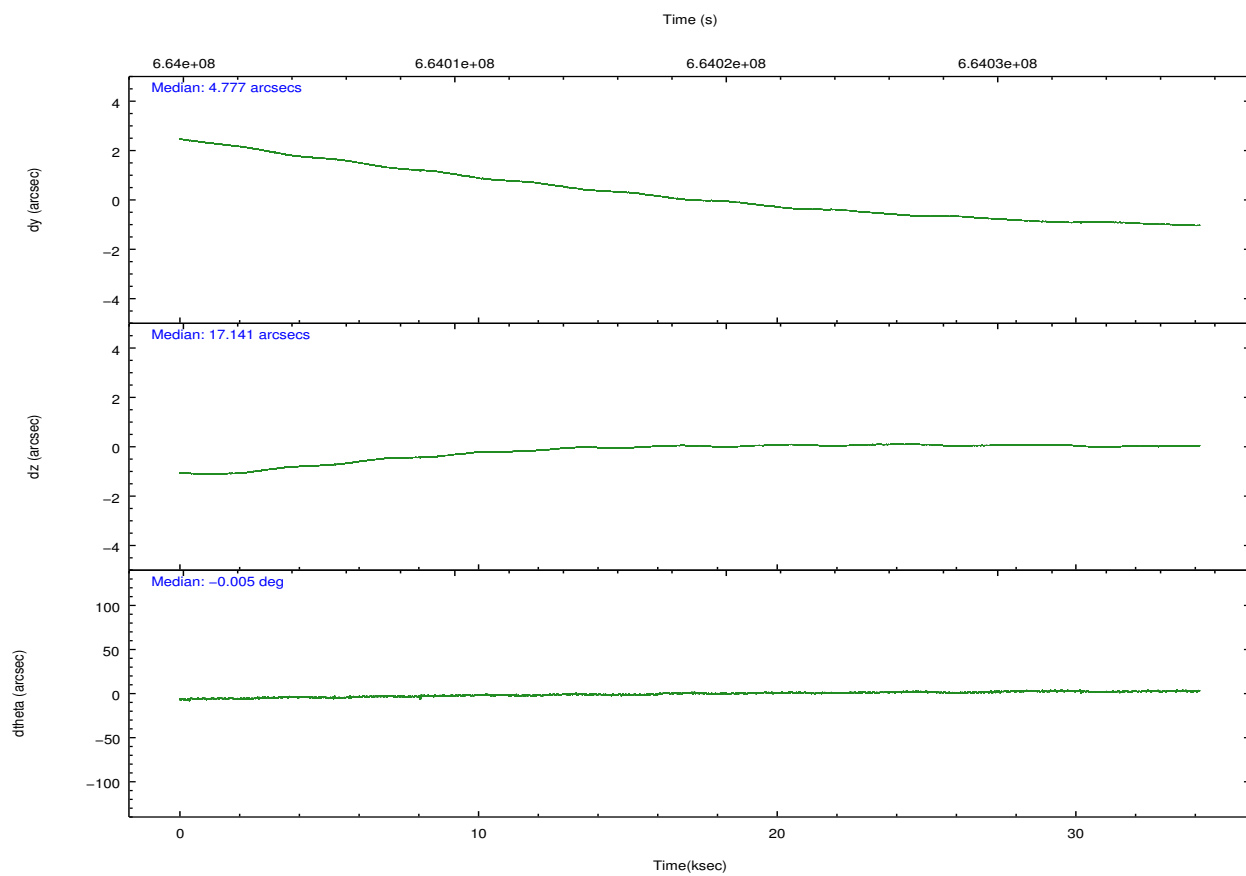
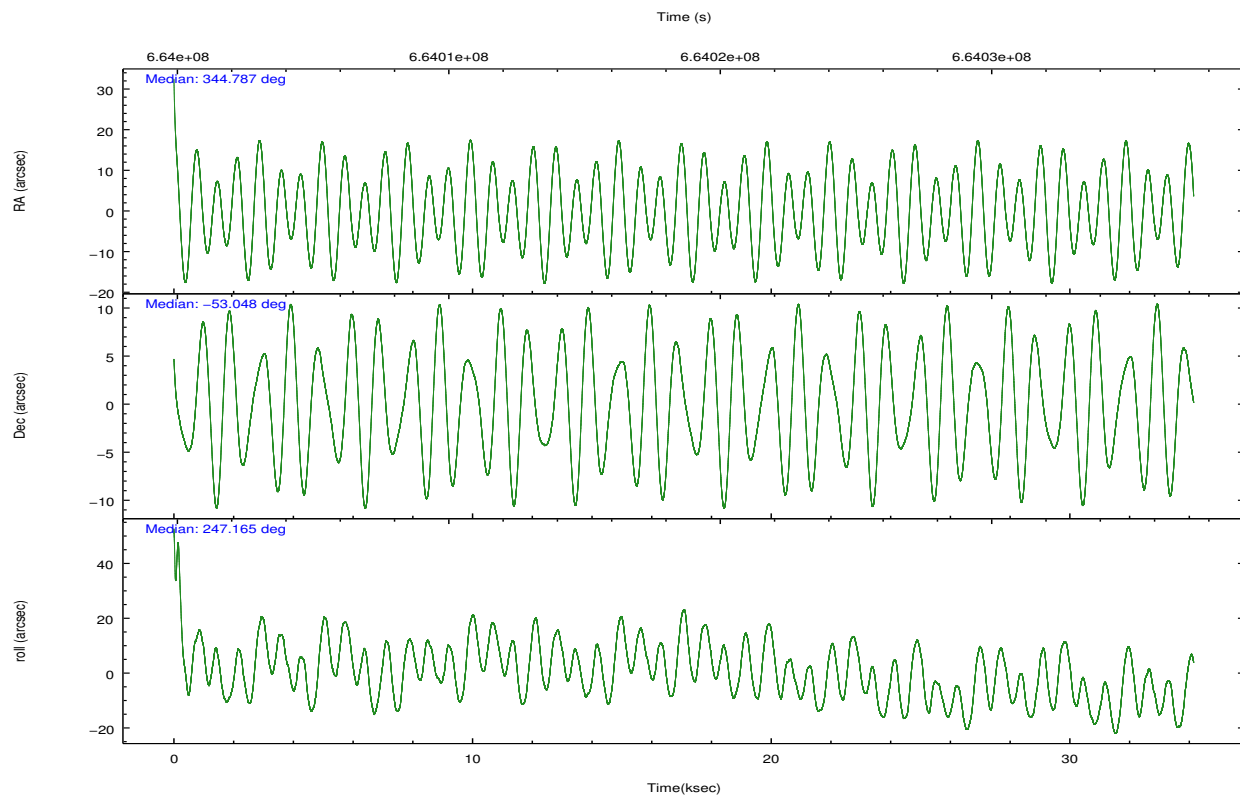
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9672	20573	10083	20861
	4%	8%	3%	7%
grade 1 events	121	193	164	259
	0%	0%	0%	0%
grade 2 events	8048	8613	6795	5931
	3%	3%	2%	2%
grade 3 events	2849	2890	2769	2776
	1%	1%	1%	1%
grade 4 events	2674	2798	2769	2801
	1%	1%	1%	1%
grade 5 events	10650	10949	10022	11979
	4%	4%	3%	4%
grade 6 events	6069	7283	5546	5834
	2%	2%	2%	2%
grade 7 events	195801	195907	226663	215035
	83%	78%	85%	80%

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	344.781448	344.7873681035113	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.021082	-53.04846024615448	CCD I3 on	Y	Y
[deg] Pointing Roll	246.961208	247.1746110112401	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)	664001752.184000	664000357.253	CCD S5 on	N	N
Observation start date	2019-01-16T04:54:43	2019-01-16T04:32:37	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	664035752.184000	664037194.7302001	On-chip summing requested	N	N
Observation end date	2019-01-16T14:21:23	2019-01-16T14:46:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



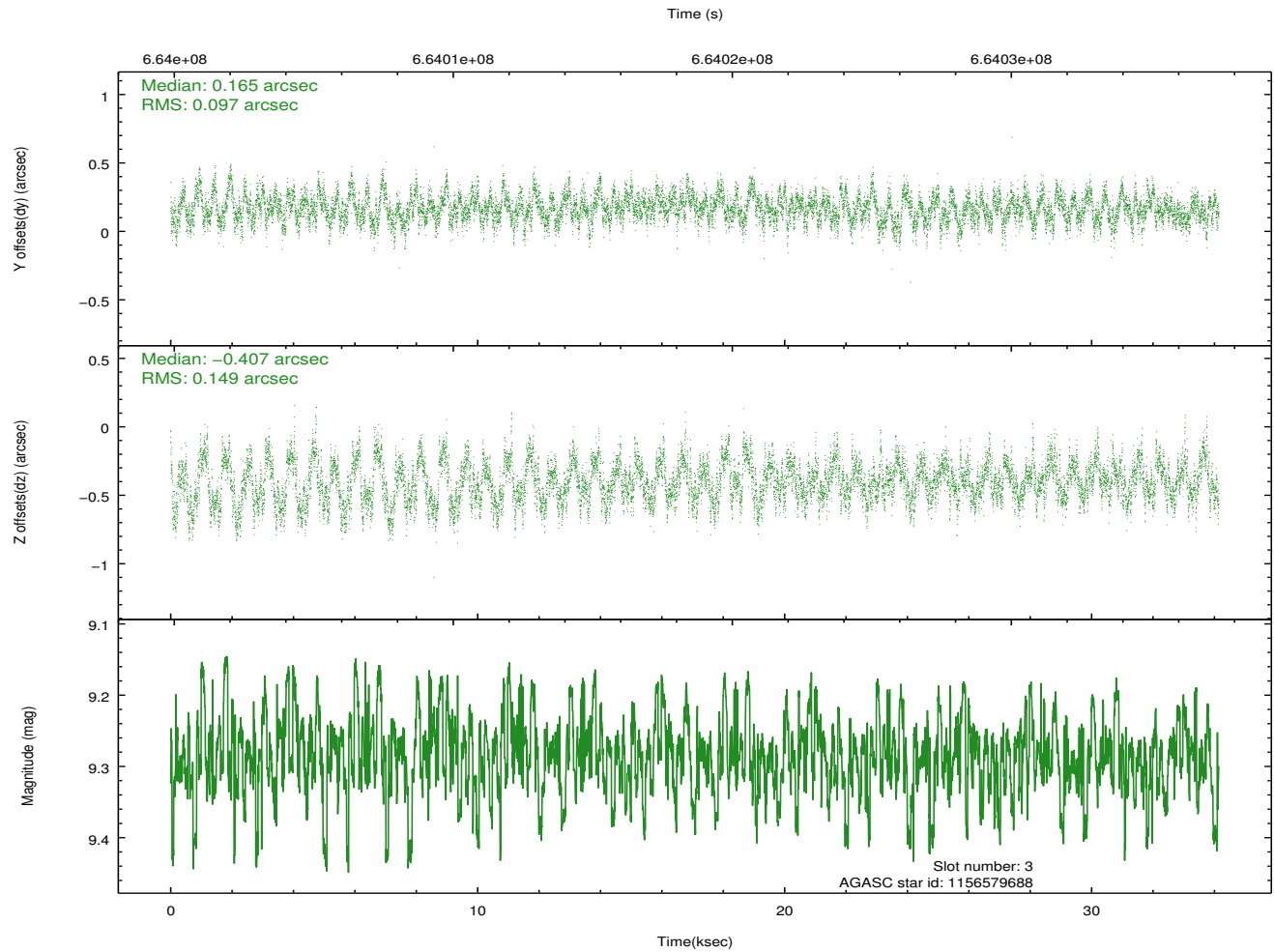
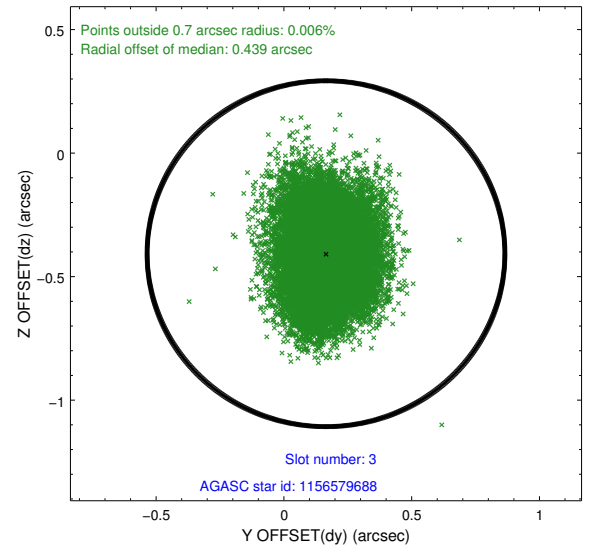
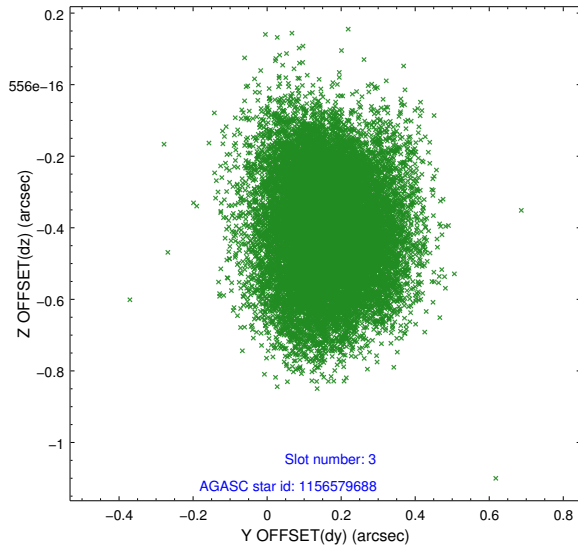


Slot Statistics

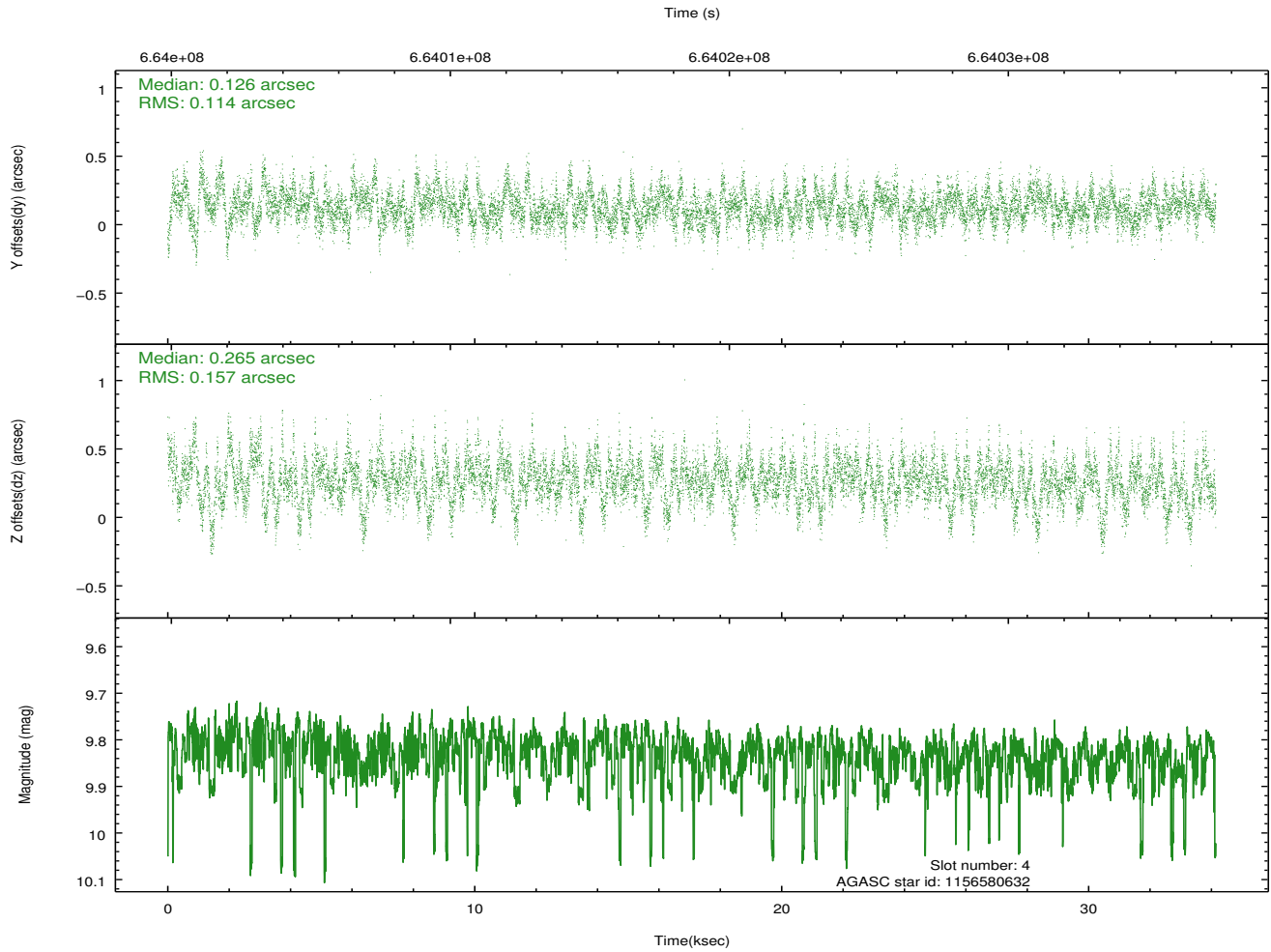
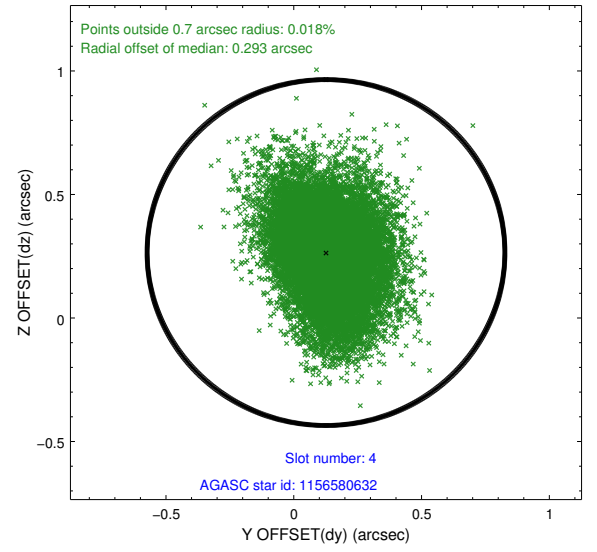
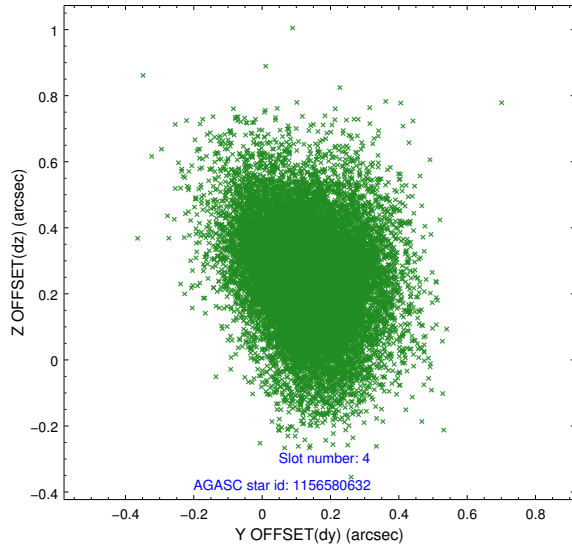
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	8329	1.000	0.124	-0.097	0.018	0.060	0.000000	0.000000	934.85	-840
1	FID		ACIS-I-5	7.12	8329	1.000	-0.414	0.063	0.027	0.045	0.000000	0.000000	-1813.88	1056
2	FID		ACIS-I-6	7.12	8329	1.000	0.197	0.104	0.039	0.105	0.000000	0.000000	400.27	1701
3	GUIDE	used	1156579688	9.29	16633	1.000	0.165	-0.407	0.190	0.306	344.832962	-53.359427	1077.85	578
4	GUIDE	used	1156580632	9.83	16618	1.000	0.126	0.265	0.201	0.352	344.592634	-53.121058	491.79	-233
5	GUIDE	used	1156580872	7.16	16658	1.000	-0.305	-0.029	0.181	0.285	345.684447	-52.965335	-940.37	1729
6	GUIDE	used	1108085680	9.45	16635	1.000	0.175	0.375	0.189	0.312	345.144566	-52.439600	-2235.80	-84
7	GUIDE	used	1156581232	9.89	16585	1.000	-0.146	-0.221	0.237	0.406	346.042040	-52.899885	-1451.35	2357

2.4 Star Slots

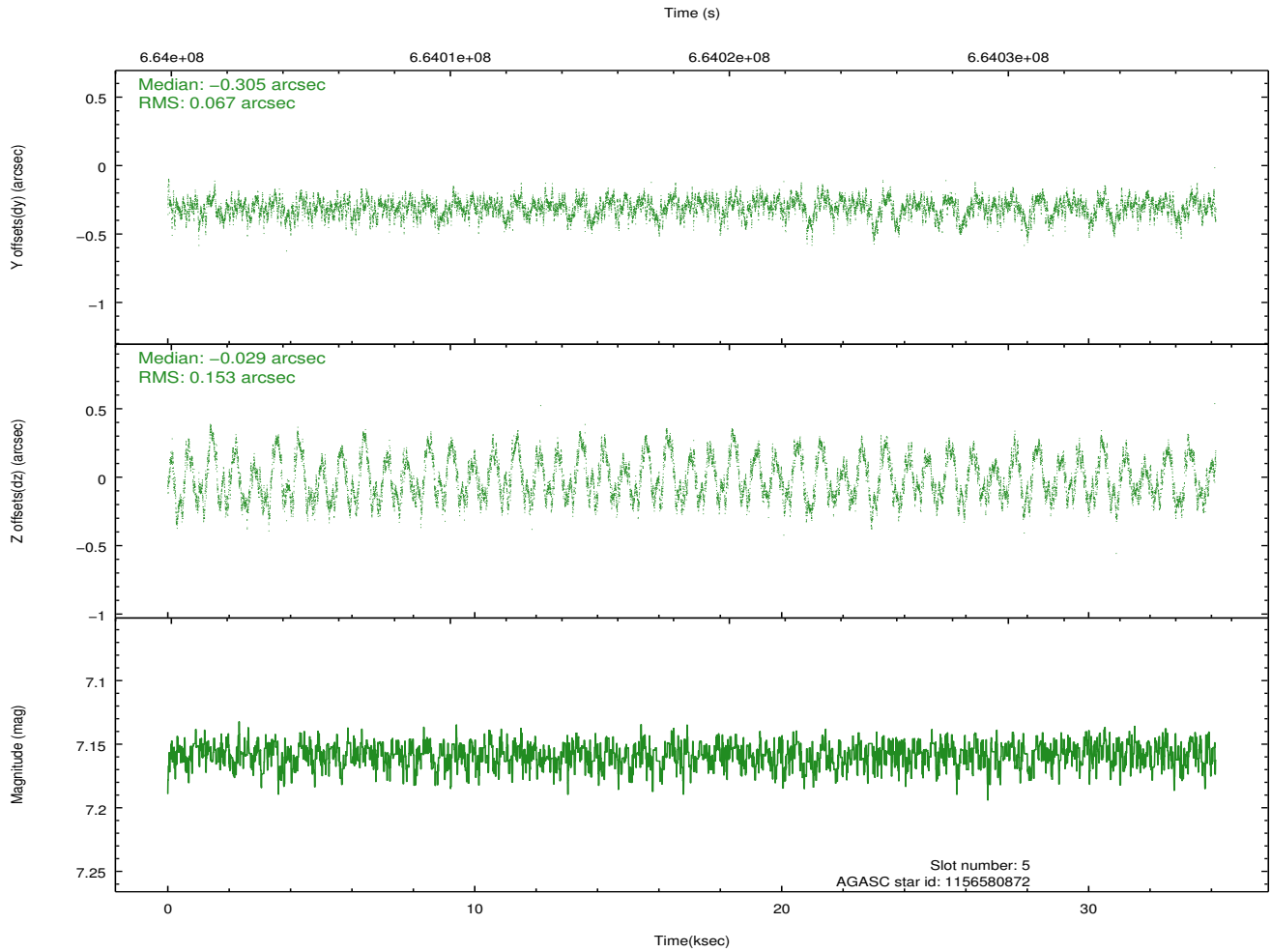
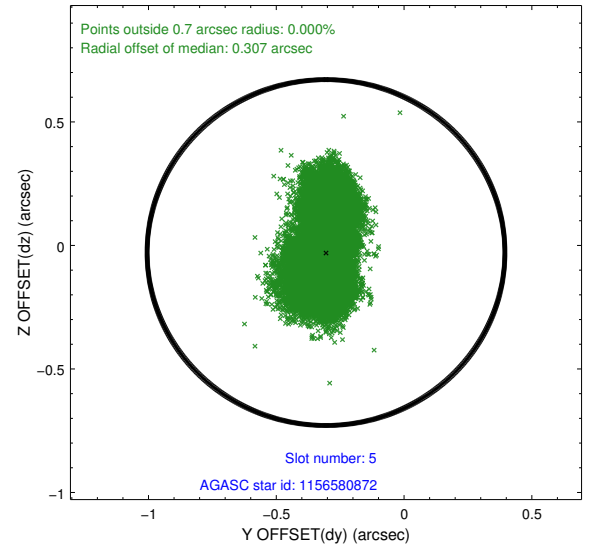
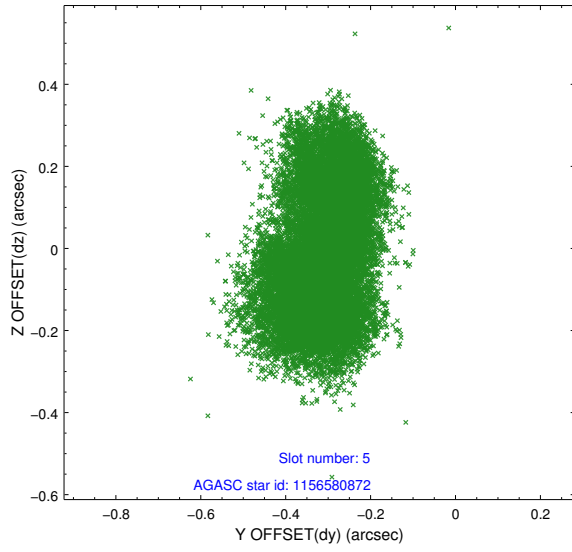
2.4.1 Slot 3



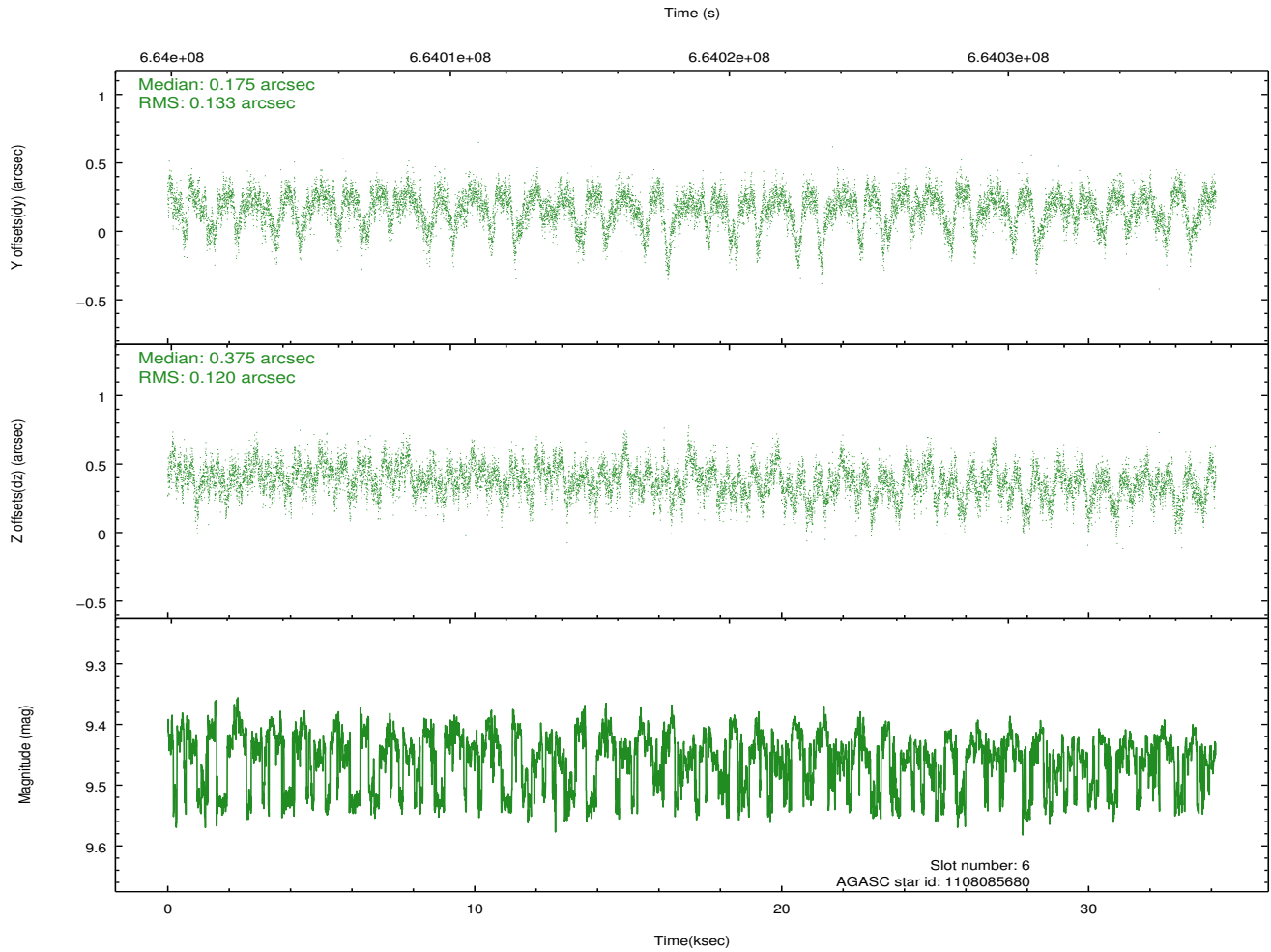
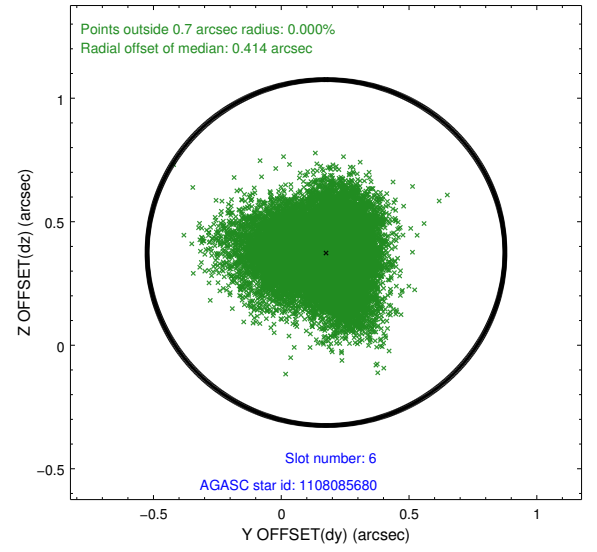
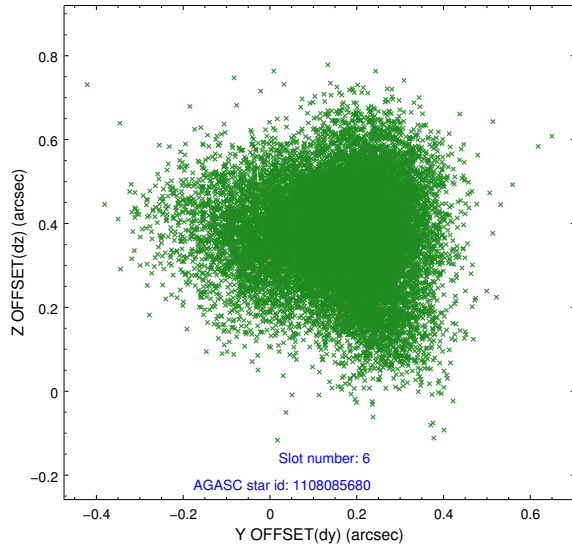
2.4.2 Slot 4



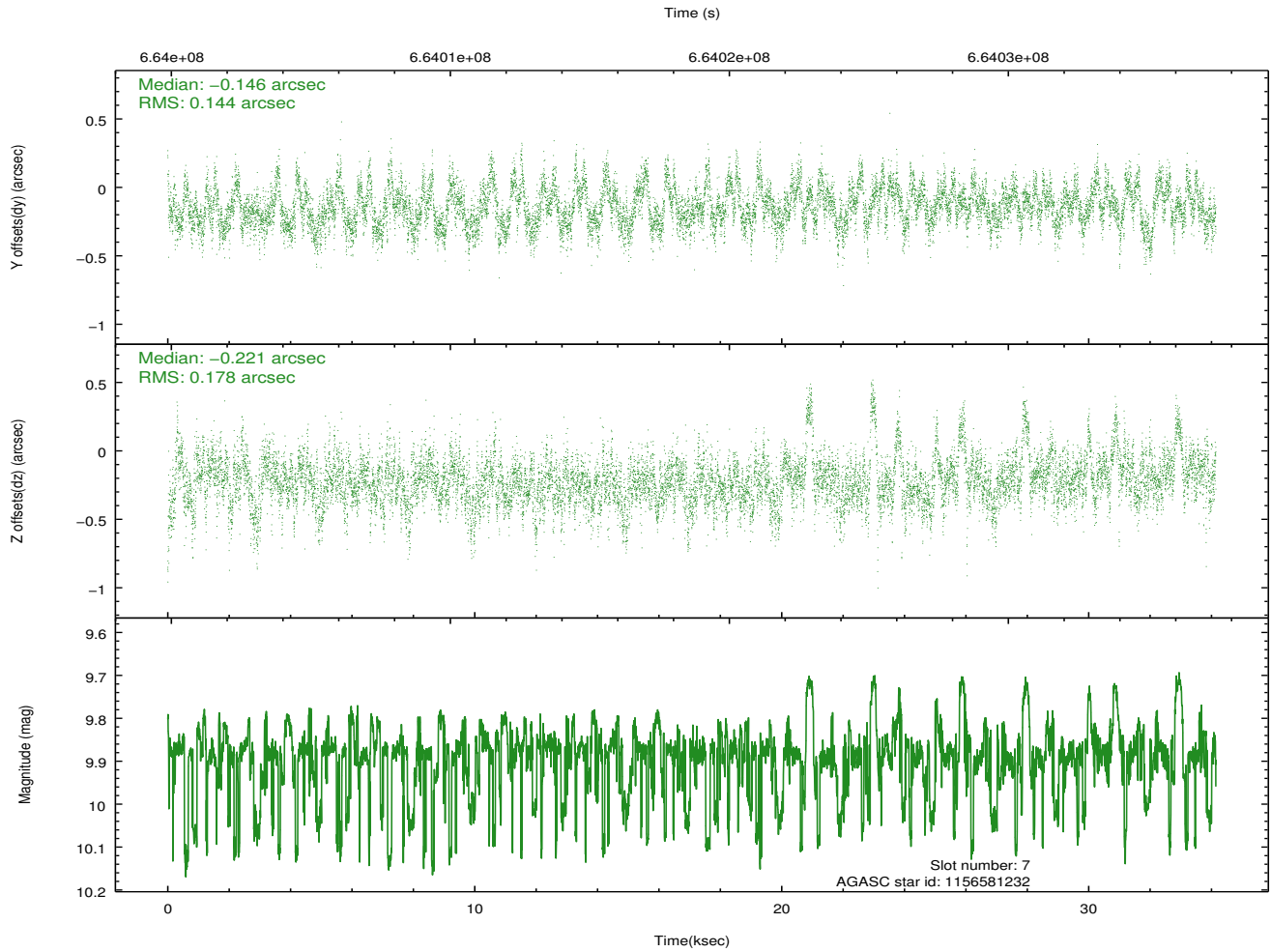
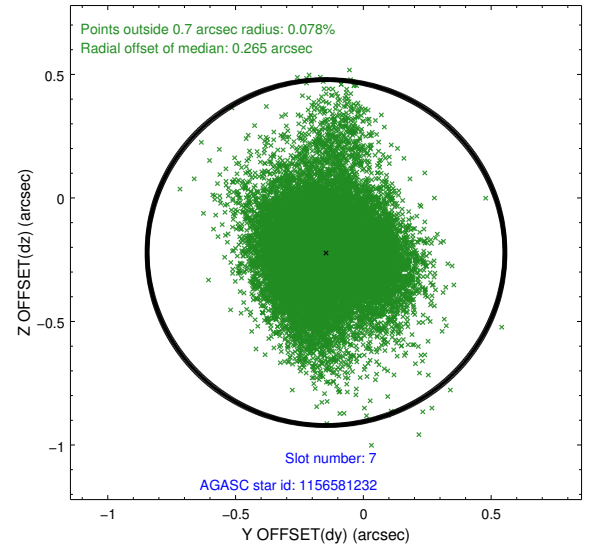
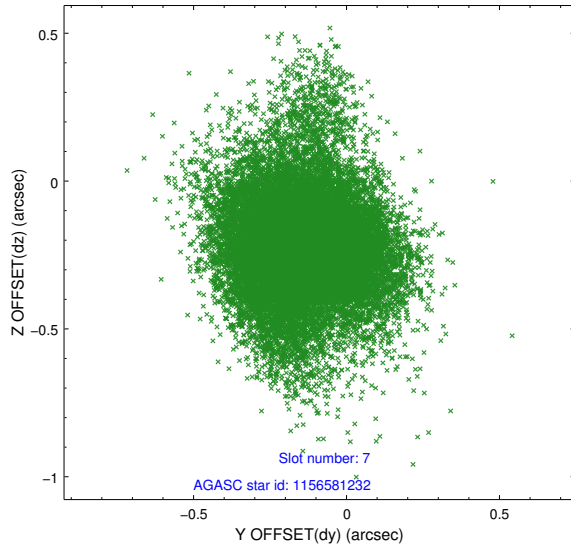
2.4.3 Slot 5



2.4.4 Slot 6

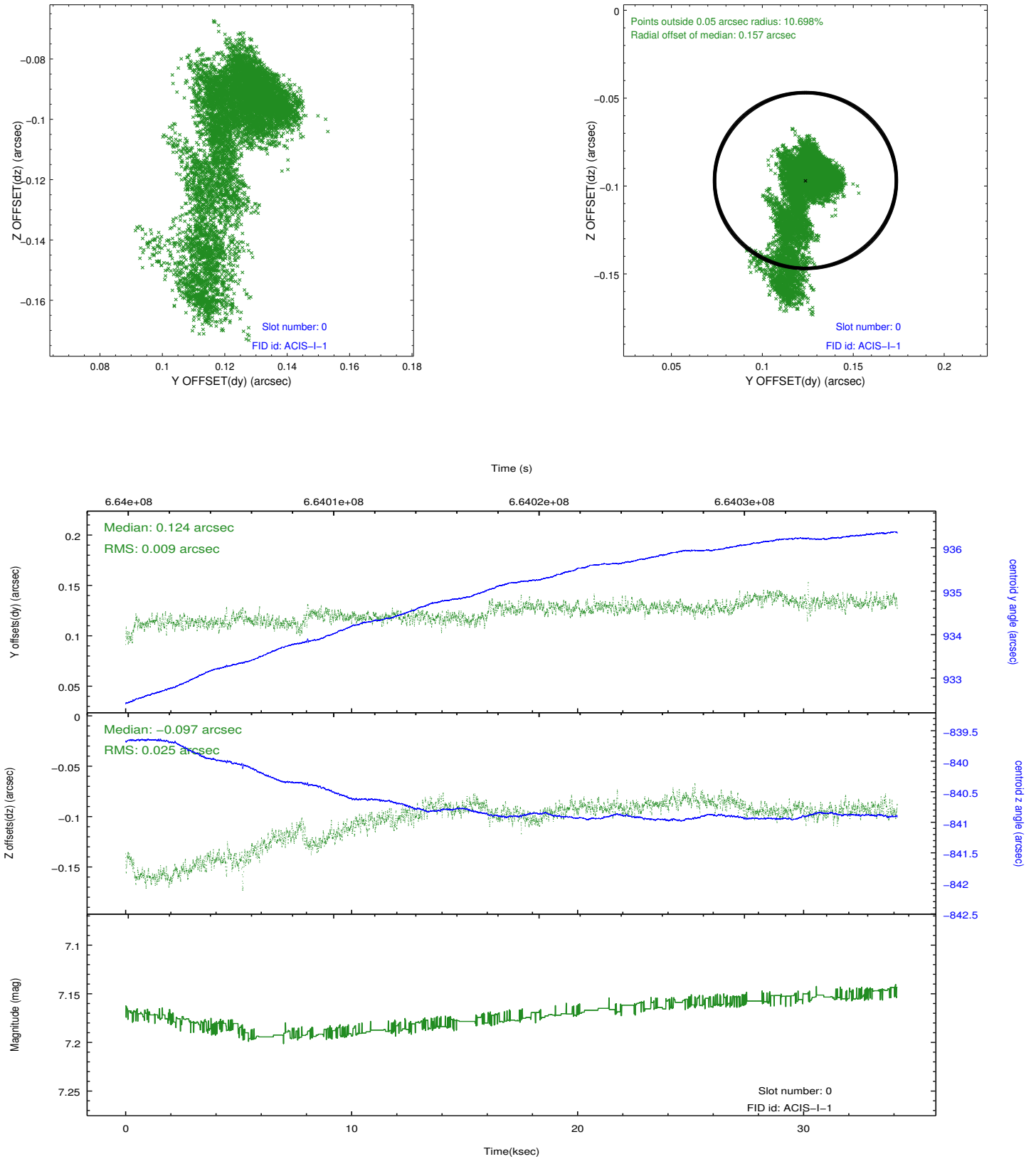


2.4.5 Slot 7

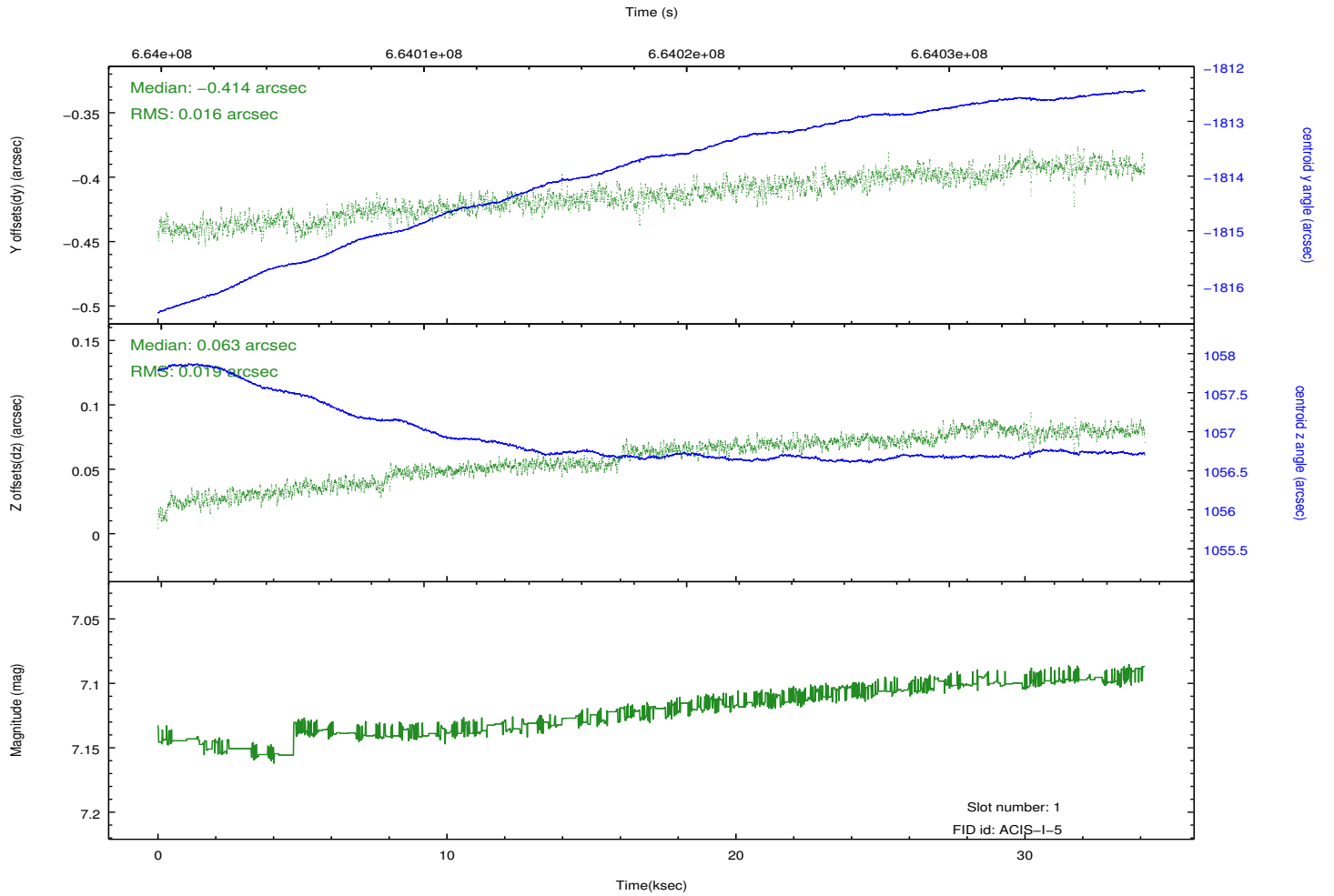
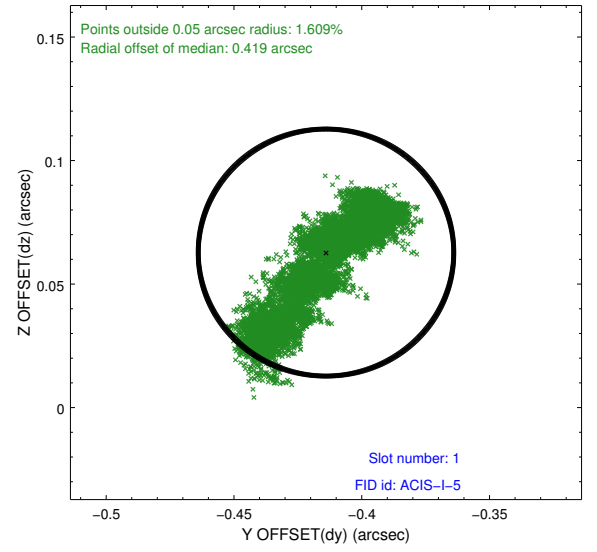
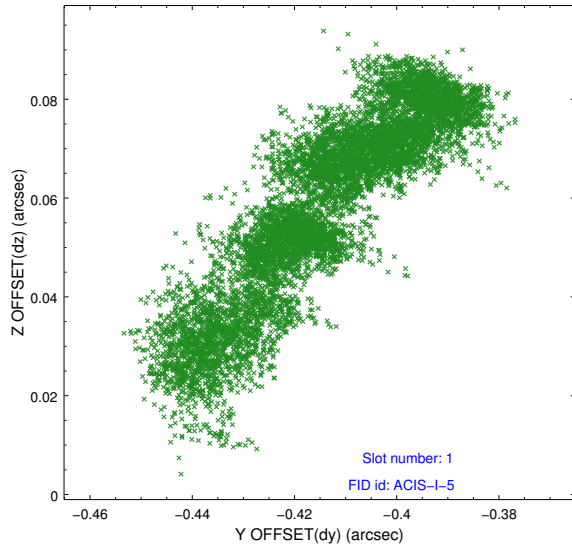


2.5 FID Slots

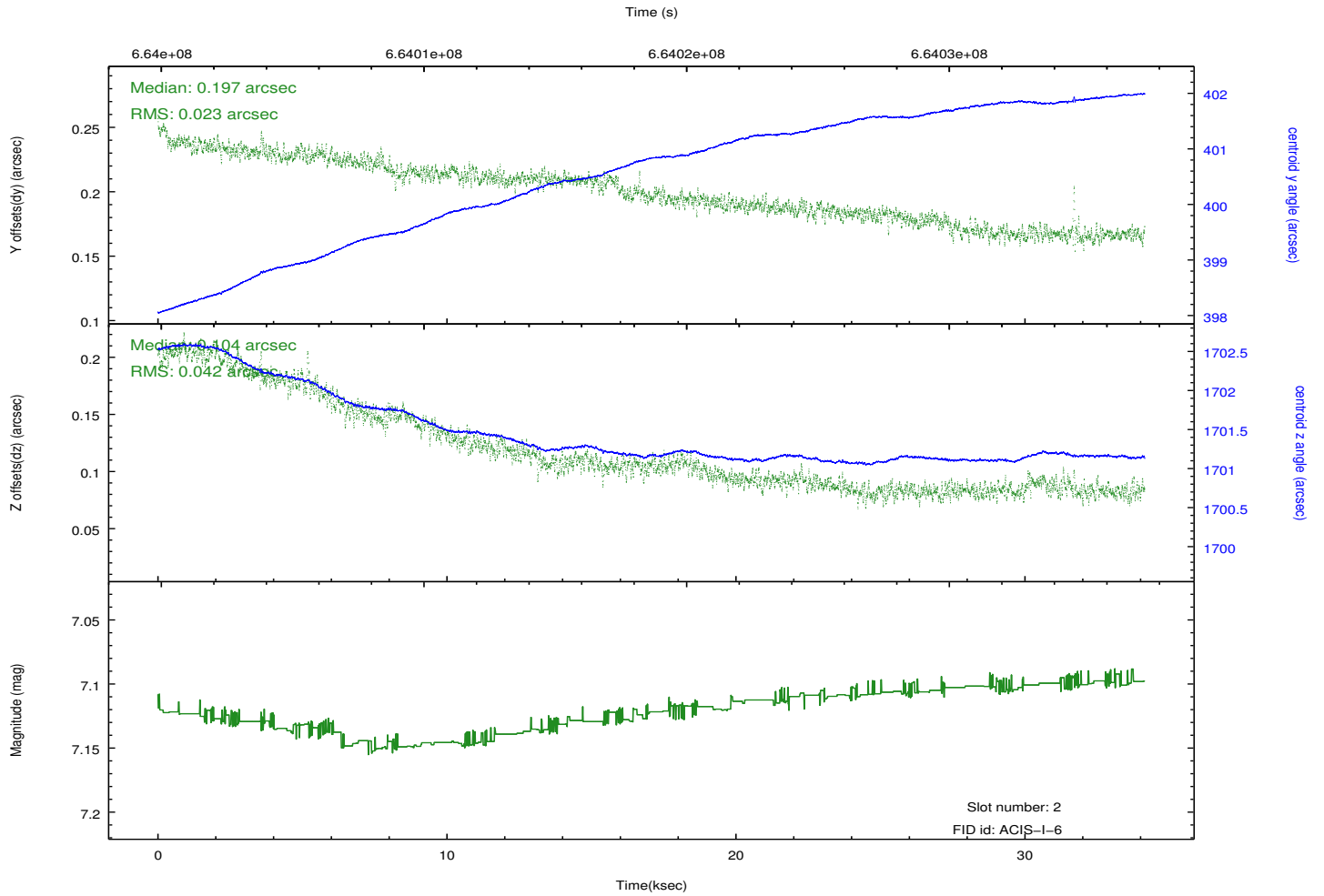
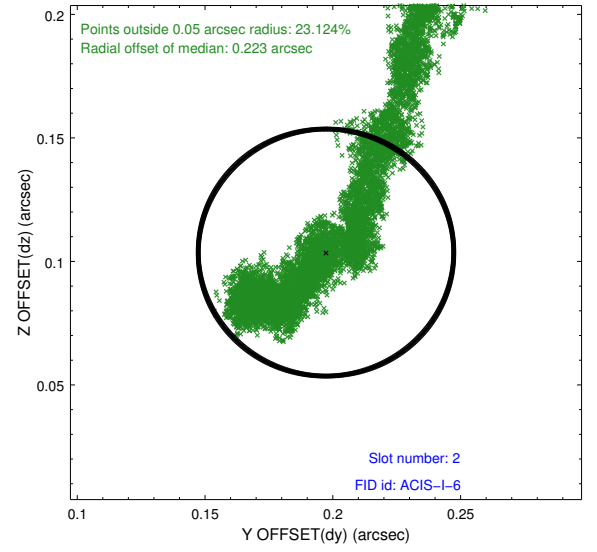
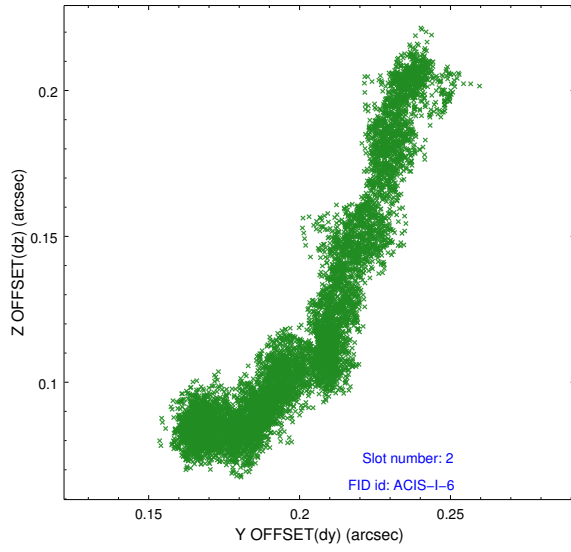
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.077173338175

A.2 Comments