

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21542 - L2 Version 1
Chandra X-Ray Center

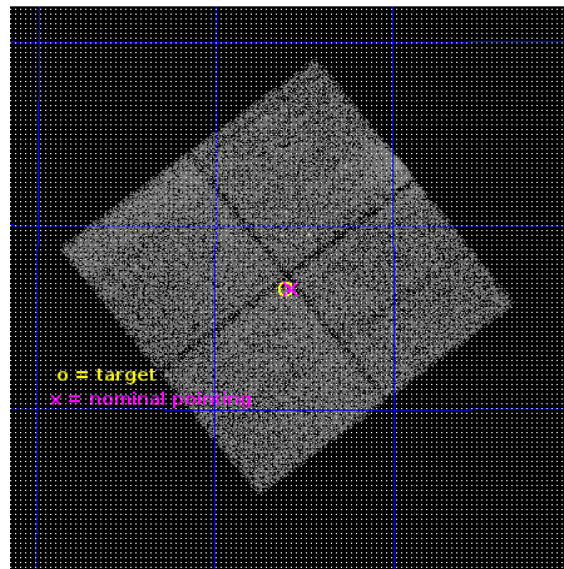
L2 Processing Date : Jan 17 2019

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1 Front

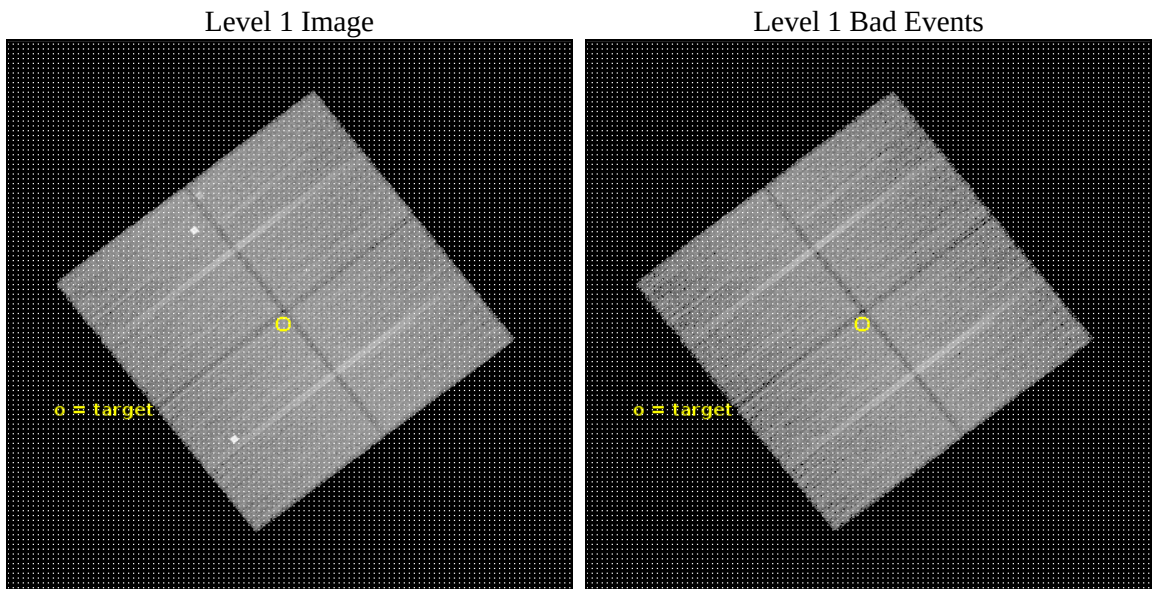
seq_num	801824	Sequence number
obs_id	21542	Observation id
title	A direct Chandra - Suzaku comparison of cluster outskirts	Proposal
observer	Andrea Morandi	Principal investigator
object	A773	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	139.650417	Observer's specified target RA [deg]
dec_targ	51.608944	Observer's specified target Dec [deg]
ra_nom	139.64259789346	Nominal RA [deg]
dec_nom	51.609630324811	Nominal Dec [deg]
roll_nom	142.21480450305	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33907.702391386	Sum of GTIs [s]
livetime	33464.673297155	Livetime [s]
ontime0	33907.579271436	Sum of GTIs [s]
ontime1	33907.620311379	Sum of GTIs [s]
ontime2	33904.52029109	Sum of GTIs [s]
ontime3	33907.702391386	Sum of GTIs [s]
l2events	100101	Number of level 2 events



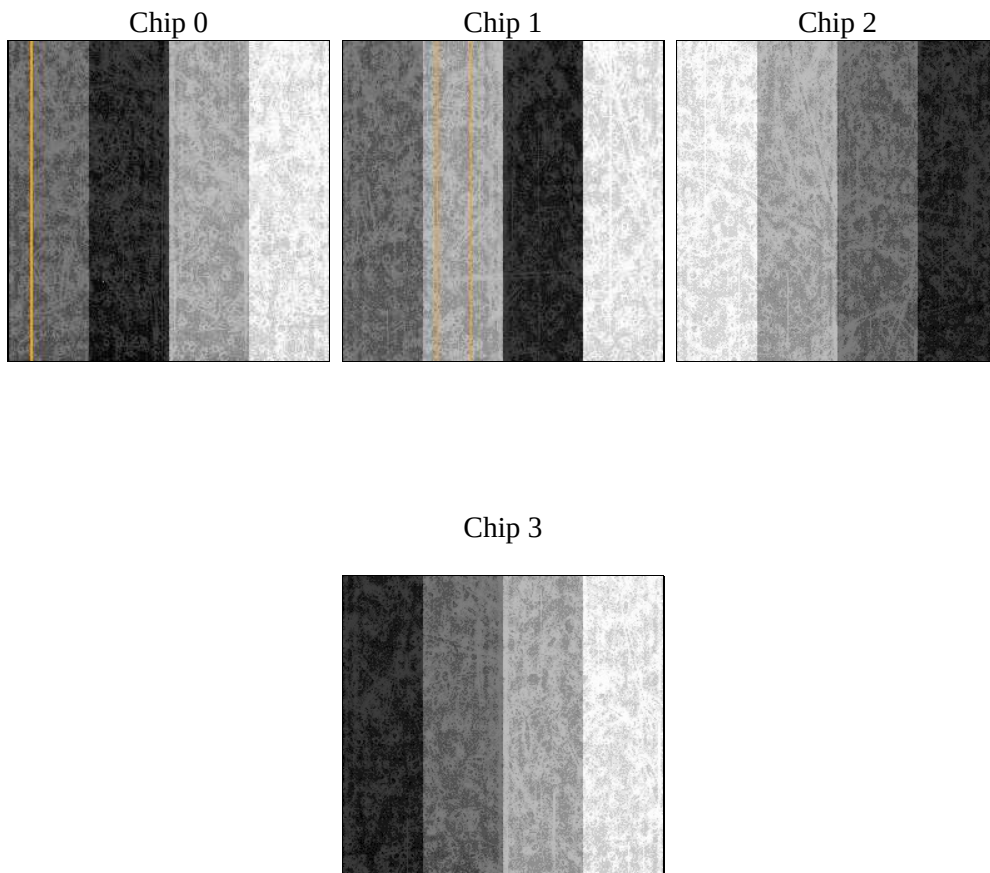
2 OBI

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	33907.702391386	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	33907.579271436	Sum of GTIs [s]
date	2019-01-17T08:00:02	Date and time of file creation	ontime1	33907.620311379	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	33904.52029109	Sum of GTIs [s]
			ontime3	33907.702391386	Sum of GTIs [s]
			l1events	1018786	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	243053	250998	260213	264522
rejected events	209504	209206	232049	227473
rejected %	86%	83%	89%	85%

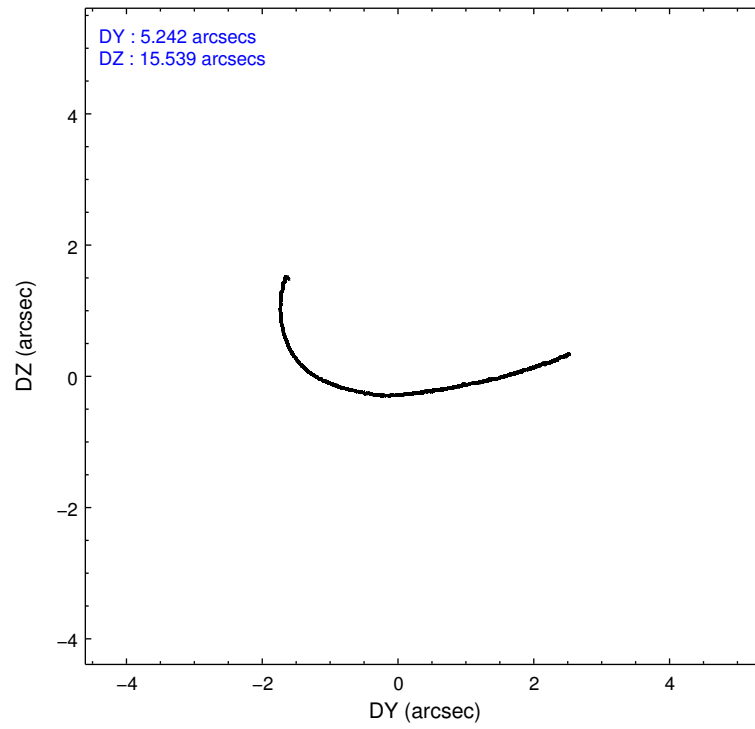
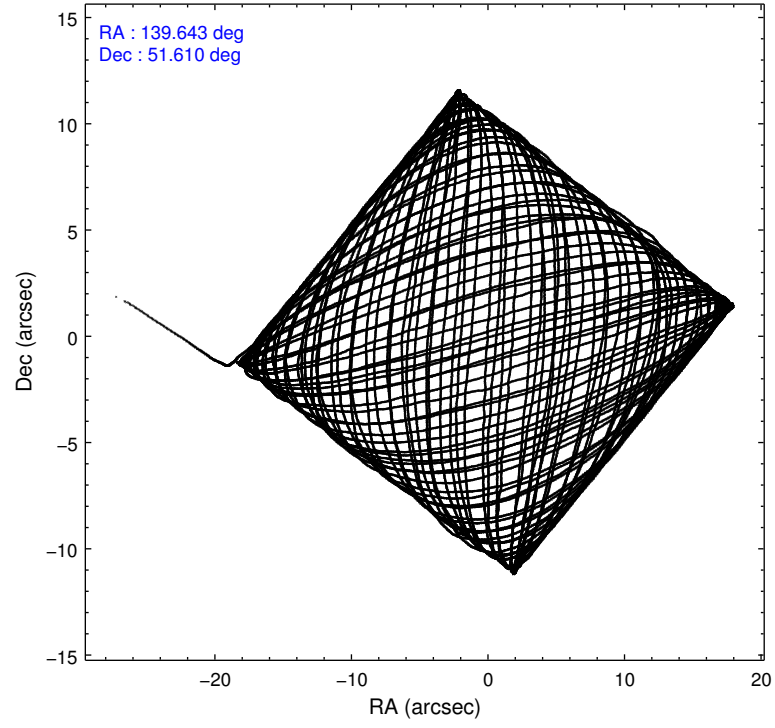
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12760	20748	10380	19443
	5%	8%	3%	7%
grade 1 events	148	175	142	233
	0%	0%	0%	0%
grade 2 events	8734	7930	6853	6144
	3%	3%	2%	2%
grade 3 events	3022	2987	2667	2850
	1%	1%	1%	1%
grade 4 events	2824	2853	2841	2901
	1%	1%	1%	1%
grade 5 events	11028	11290	10415	12207
	4%	4%	4%	4%
grade 6 events	6218	7281	5428	5720
	2%	2%	2%	2%
grade 7 events	198319	197734	221487	215024
	81%	78%	85%	81%

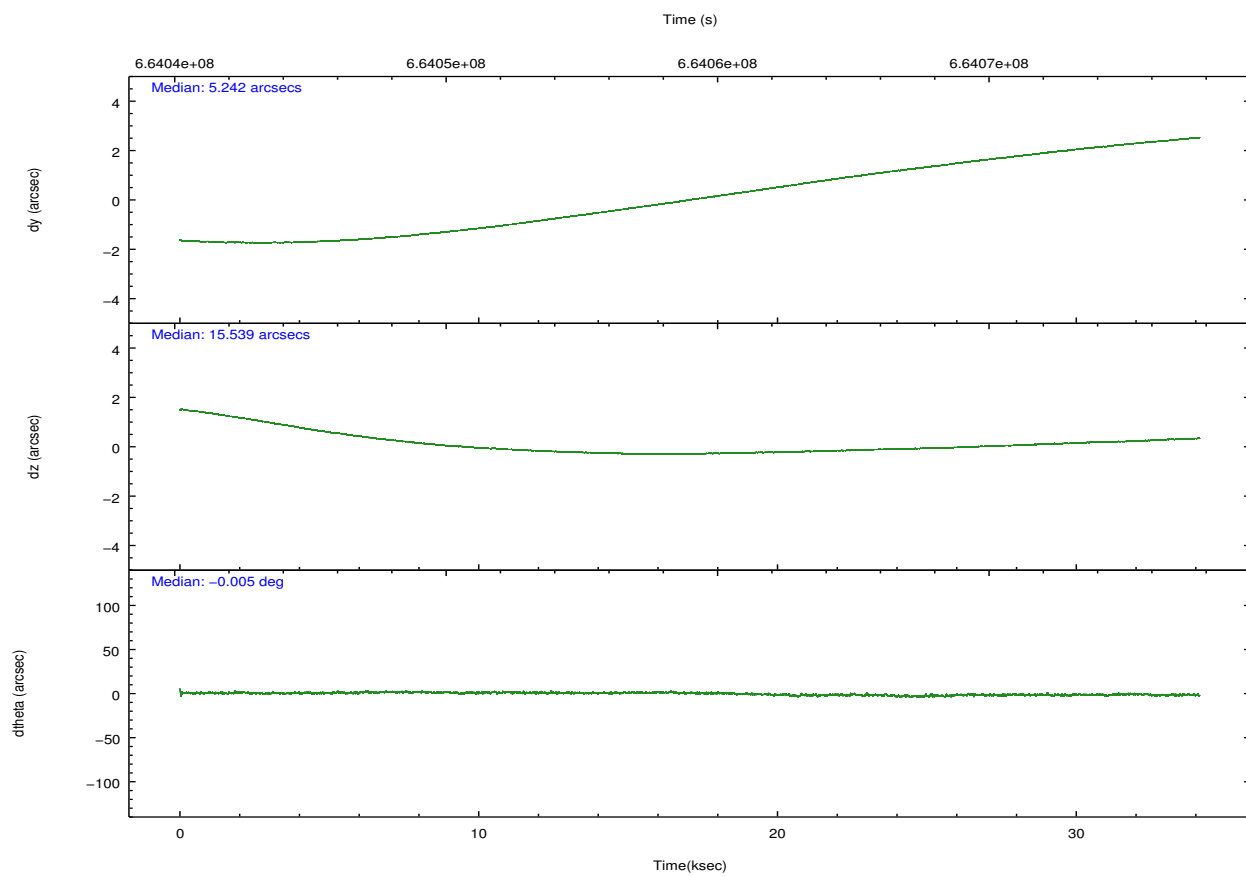
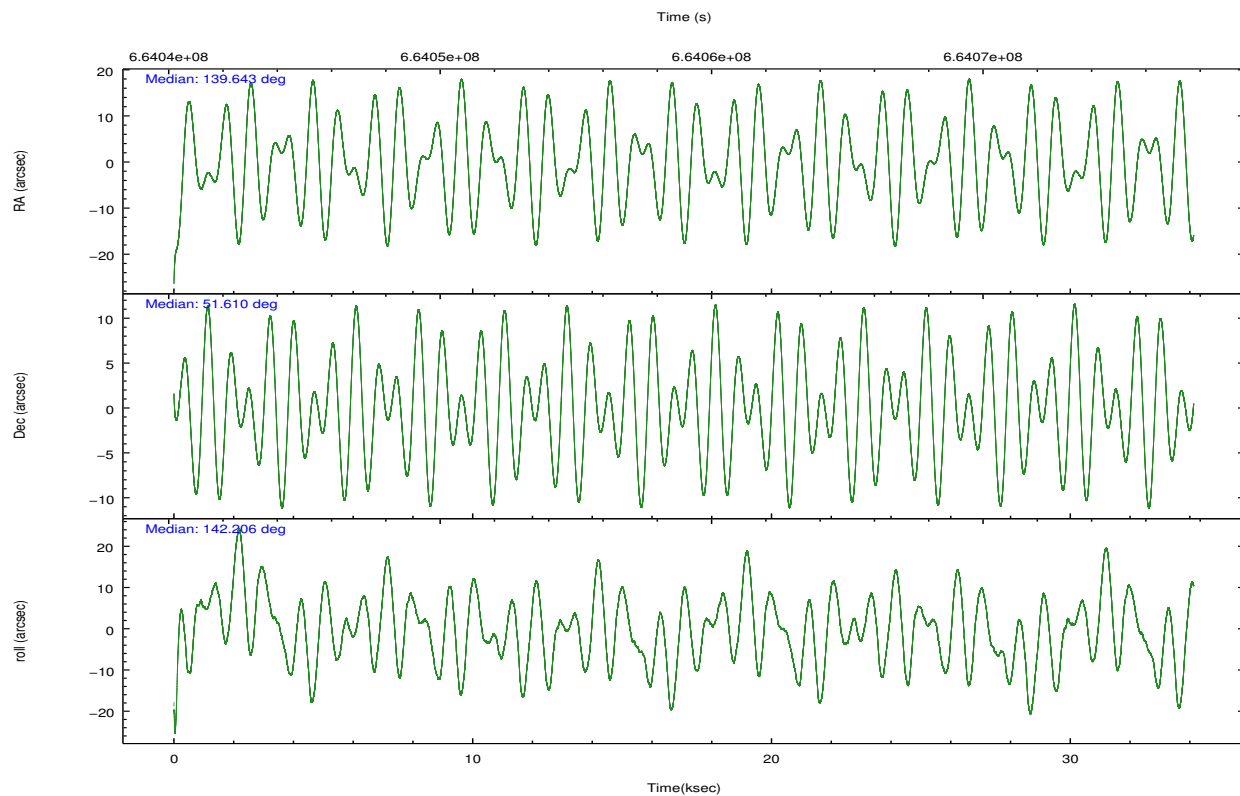
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	139.686670	139.6425978934558
[deg] Pointing Dec	51.605988	51.60963032481076
[deg] Pointing Roll	141.971591	142.2148045030484
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	664042026.184000	664040802.2179101
Observation start date	2019-01-16T16:05:57	2019-01-16T15:46:42
[s] Observation end time (MET)	664076026.184000	664077072.87008
Observation end date	2019-01-17T01:32:37	2019-01-17T01:51:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



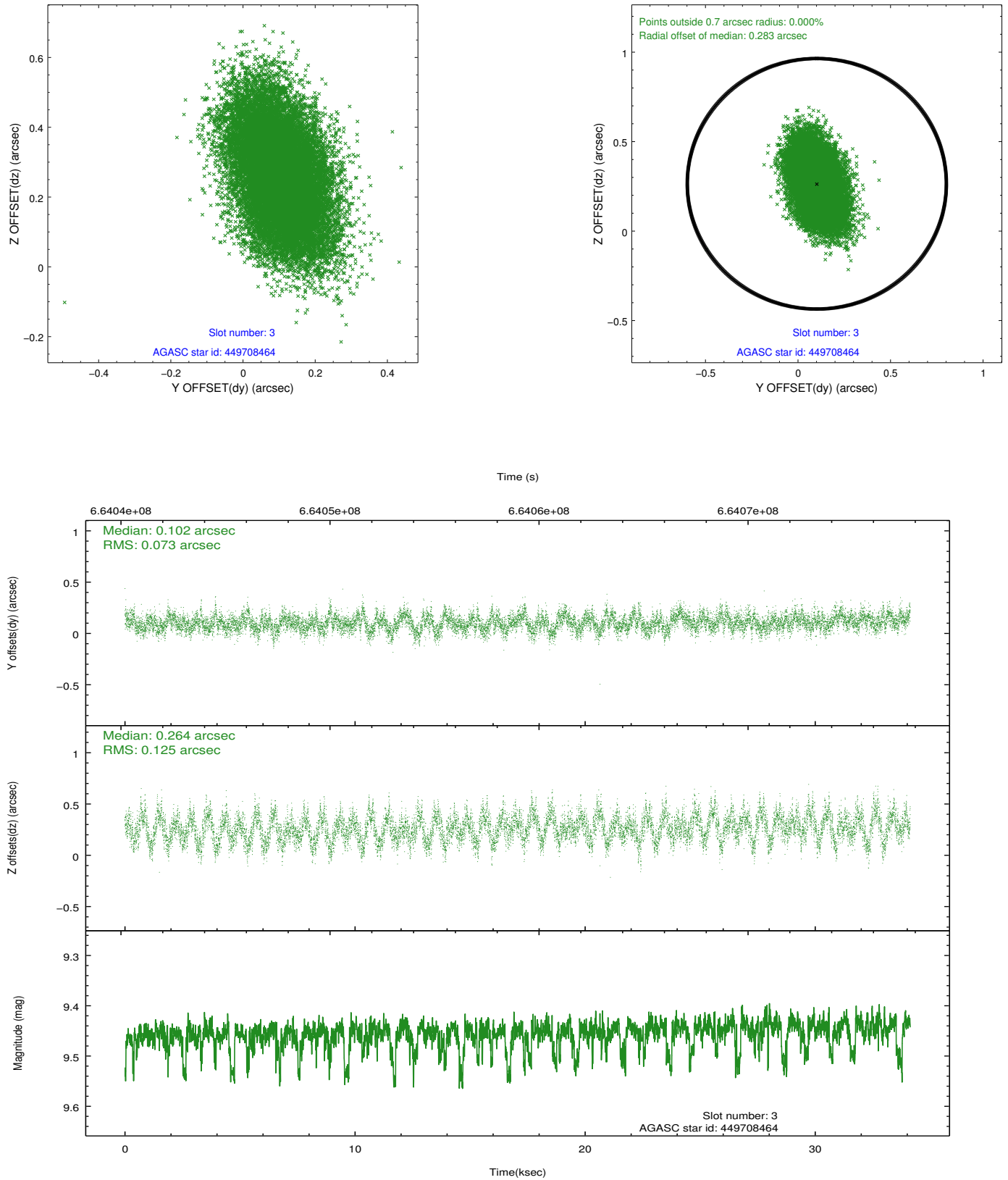


Slot Statistics

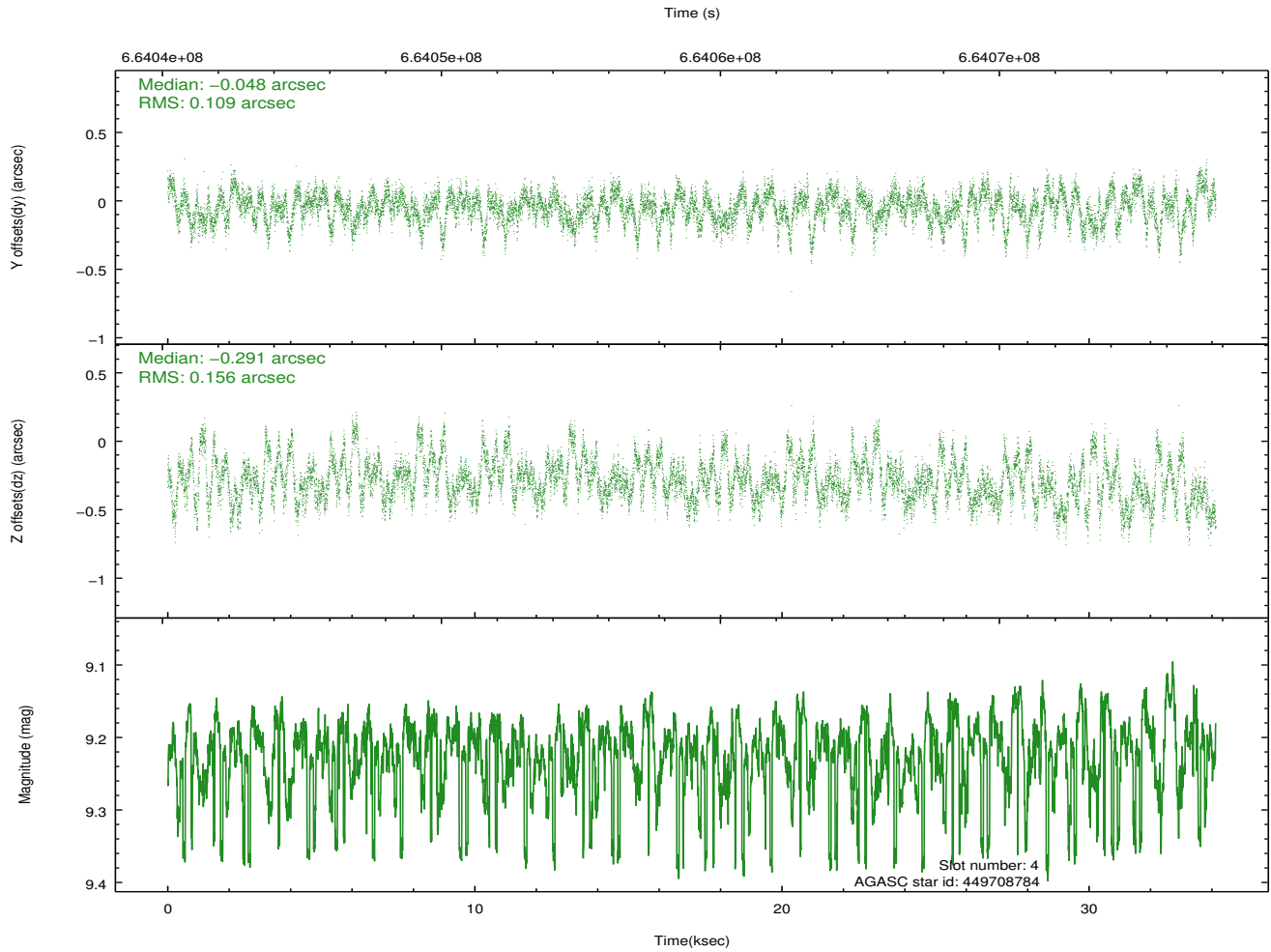
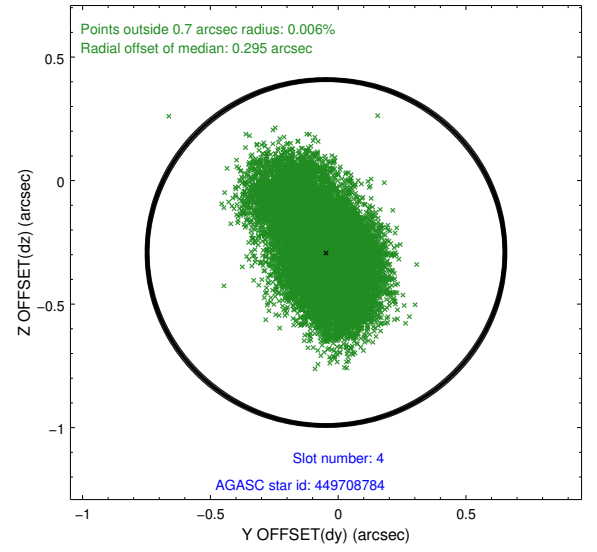
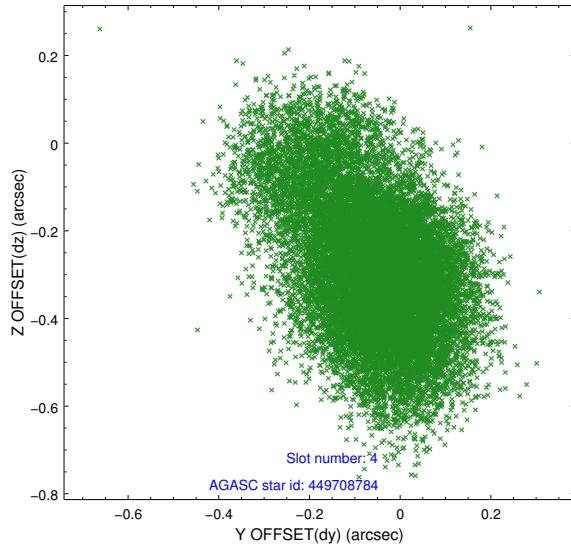
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.08	8322	1.000	-0.259	-0.148	0.040	0.060	0.000000	0.000000	-760.01	-845
1	FID		ACIS-I-4	7.13	8324	1.000	0.529	0.169	0.047	0.113	0.000000	0.000000	2154.74	1060
2	FID		ACIS-I-5	7.14	8322	1.000	-0.384	0.038	0.028	0.047	0.000000	0.000000	-1814.00	1058
3	GUIDE	used	449708464	9.45	16618	1.000	0.102	0.264	0.151	0.255	140.342196	51.951871	-373.84	-1881
4	GUIDE	used	449708784	9.22	16640	1.000	-0.048	-0.291	0.196	0.347	139.281247	51.322176	91.46	1365
5	GUIDE	used	449709864	7.94	16647	1.000	-0.080	-0.122	0.080	0.140	139.601682	51.402076	-301.65	695
6	GUIDE	used	449712088	9.46	16619	1.000	-0.192	-0.070	0.189	0.290	139.707087	51.979156	792.19	-1086
7	GUIDE	used	449712984	8.75	16633	1.000	0.232	0.213	0.143	0.213	139.803051	51.633381	-143.57	-237

2.4 Star Slots

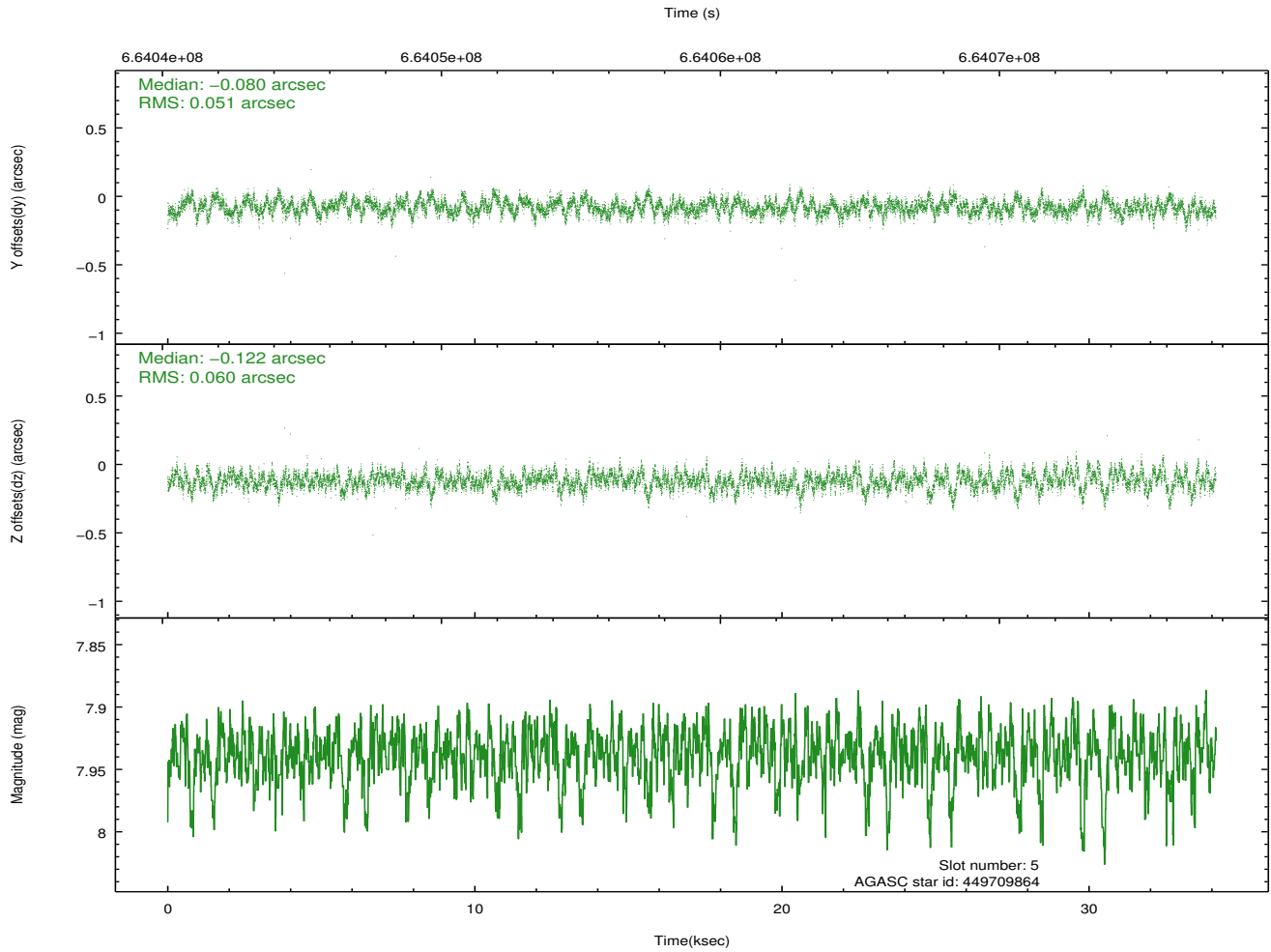
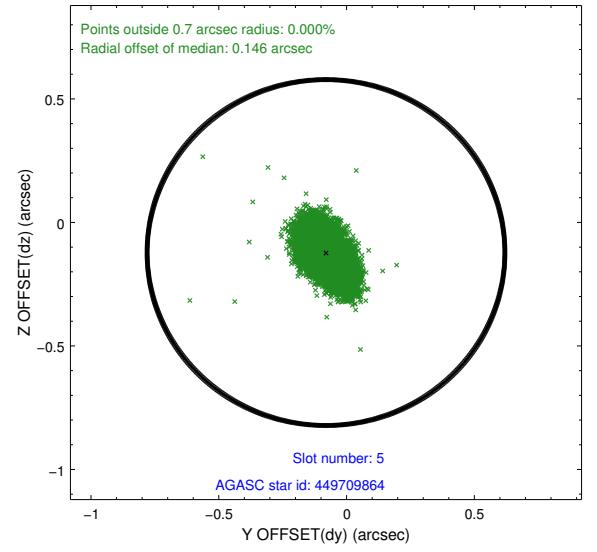
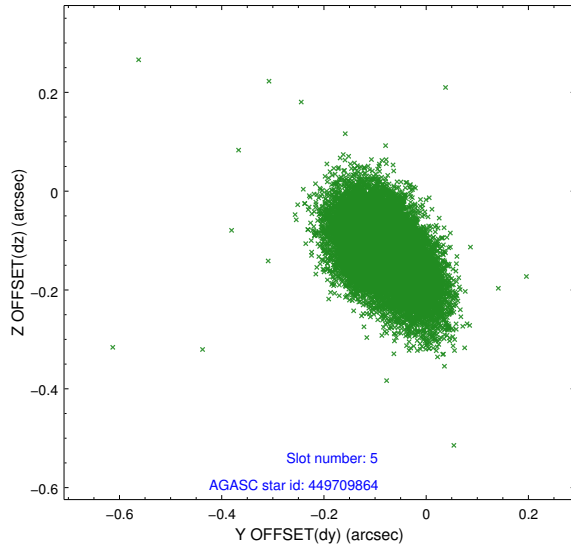
2.4.1 Slot 3



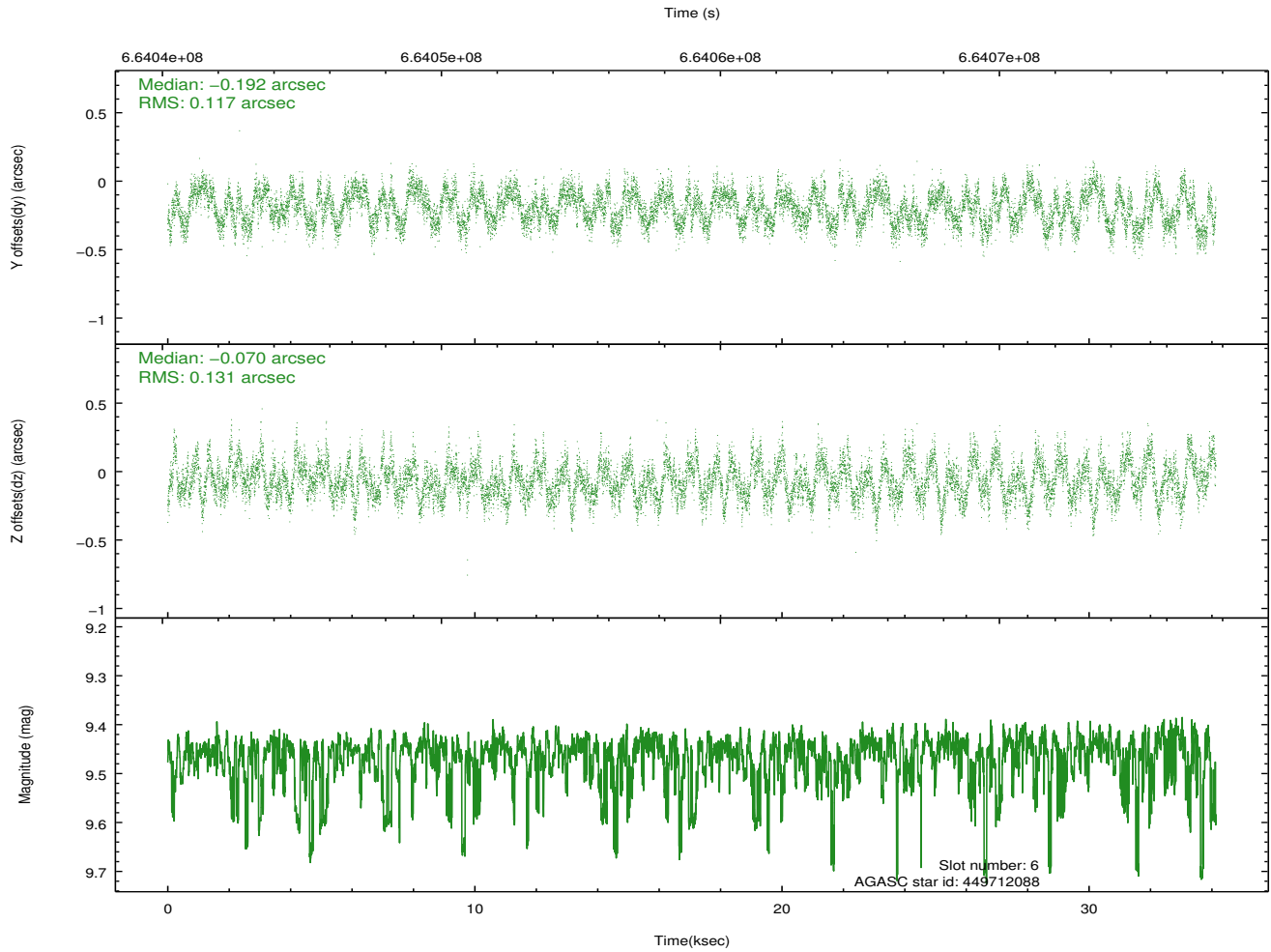
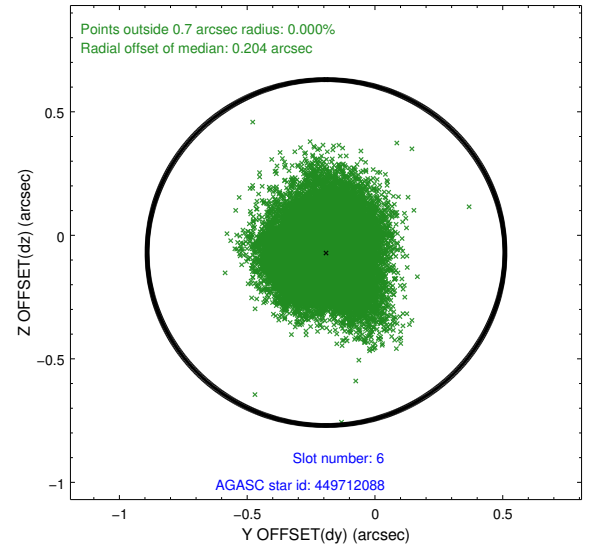
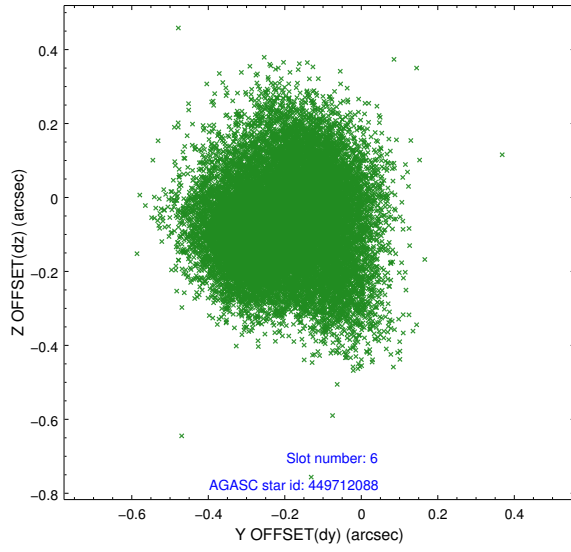
2.4.2 Slot 4



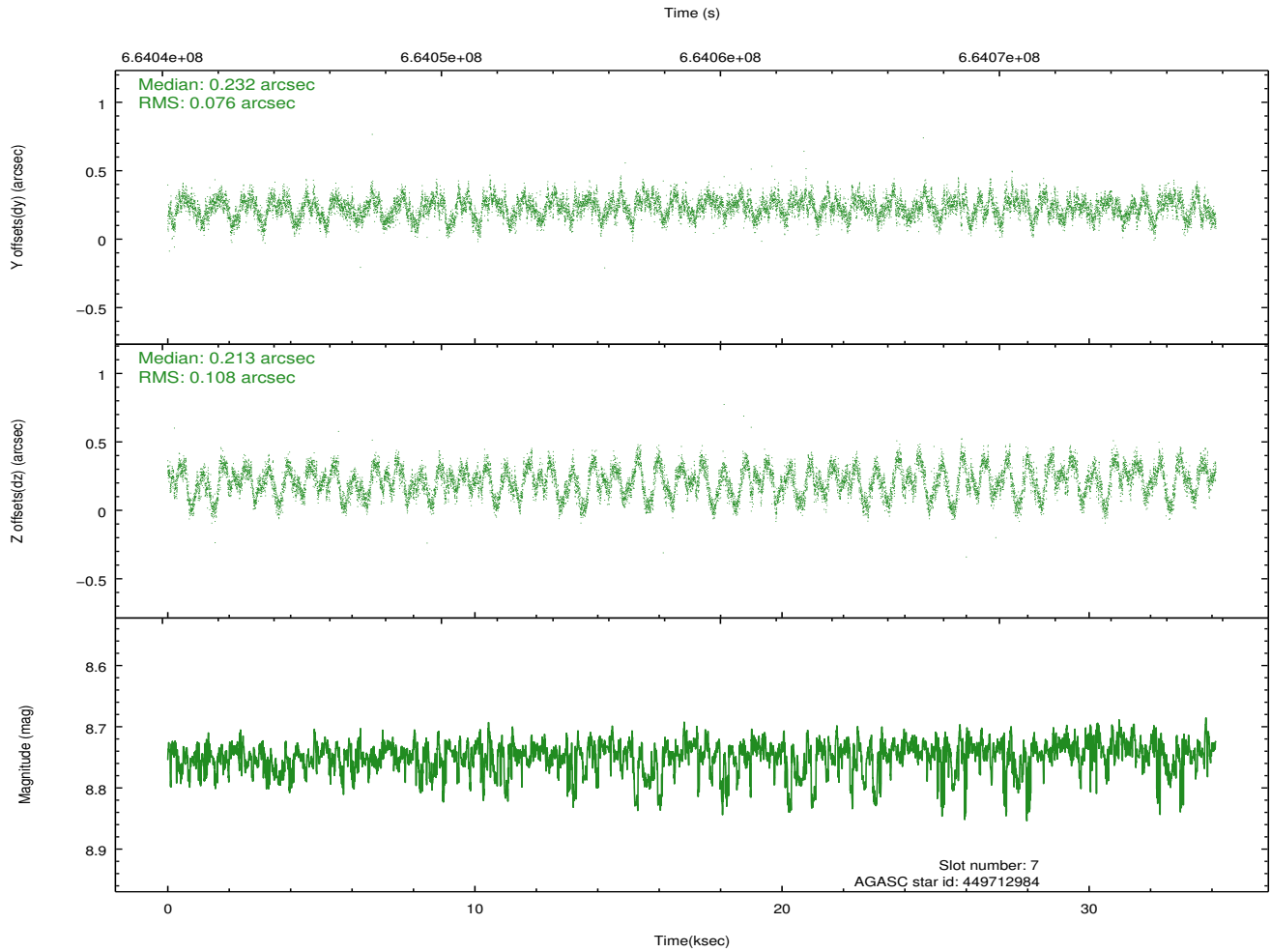
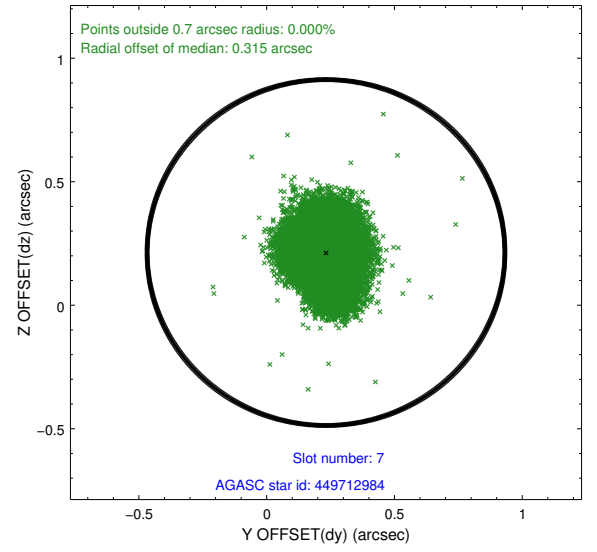
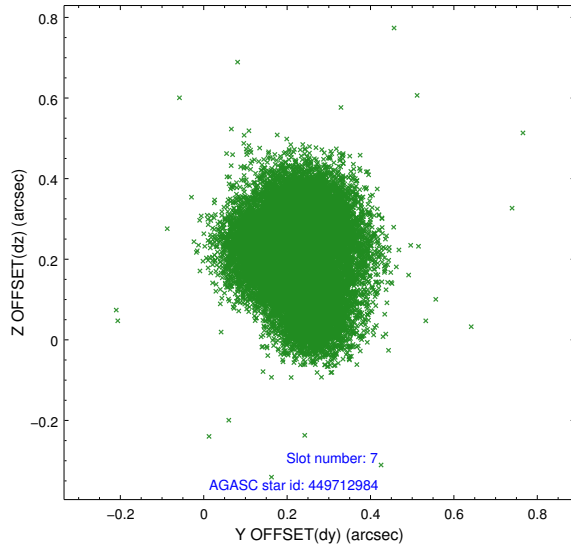
2.4.3 Slot 5



2.4.4 Slot 6

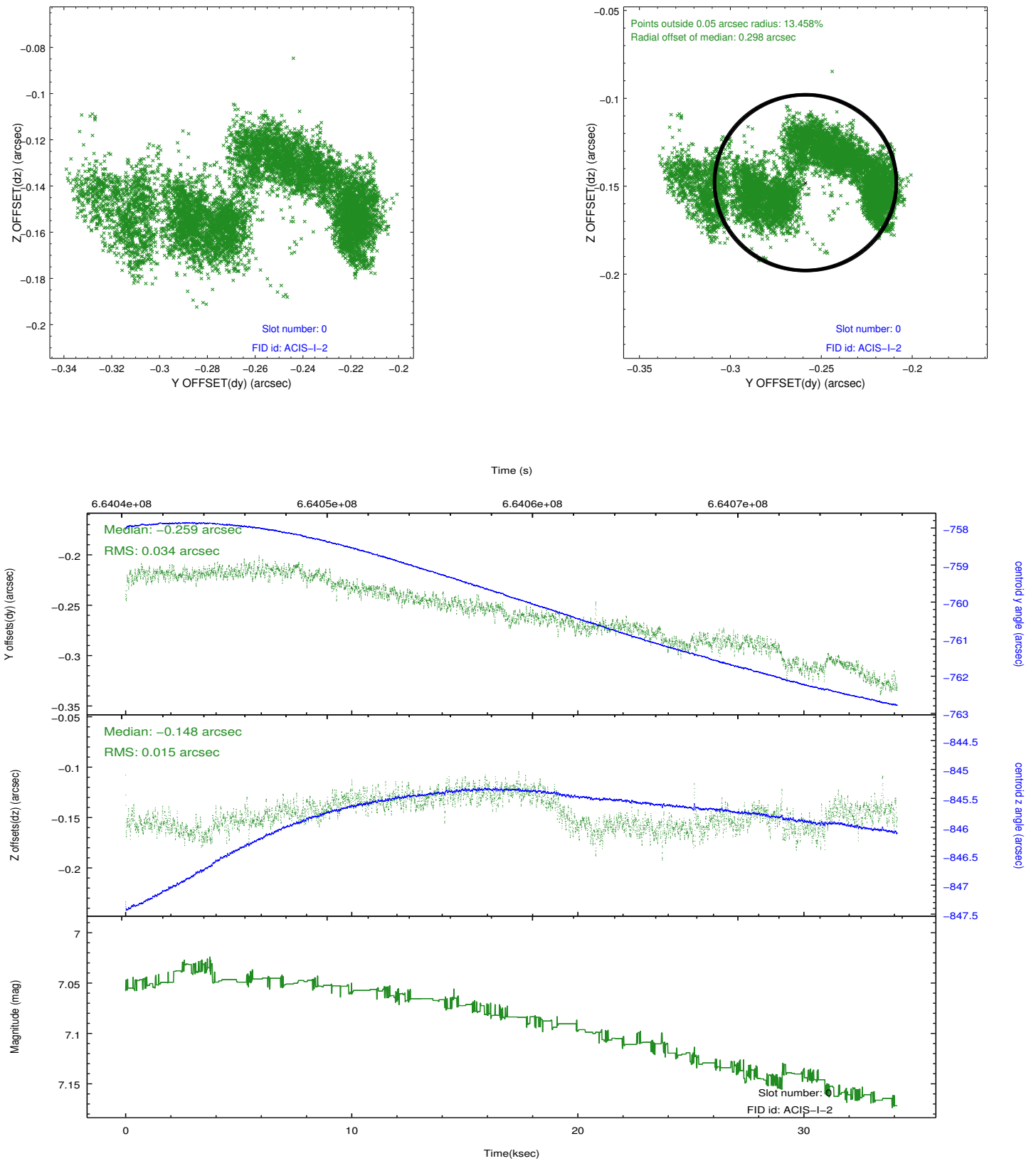


2.4.5 Slot 7

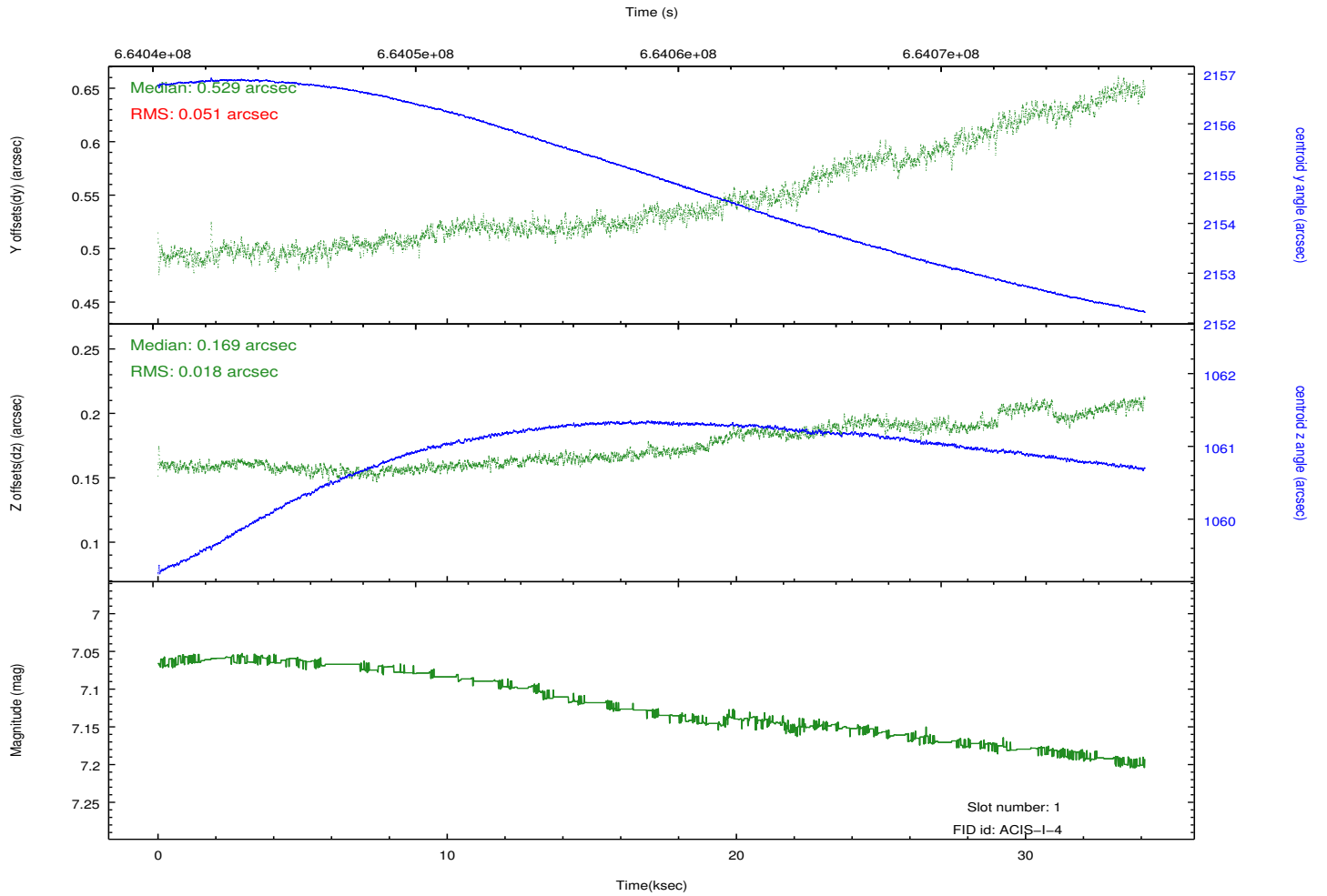
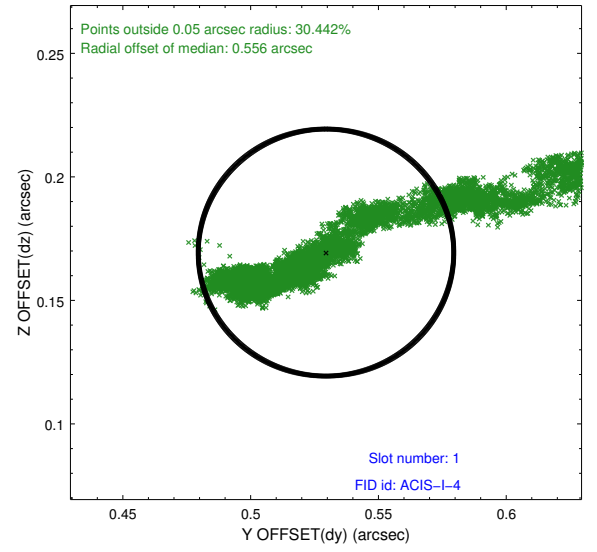
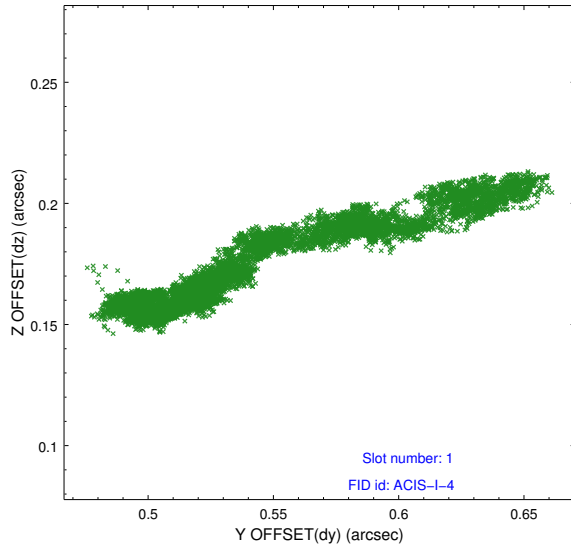


2.5 FID Slots

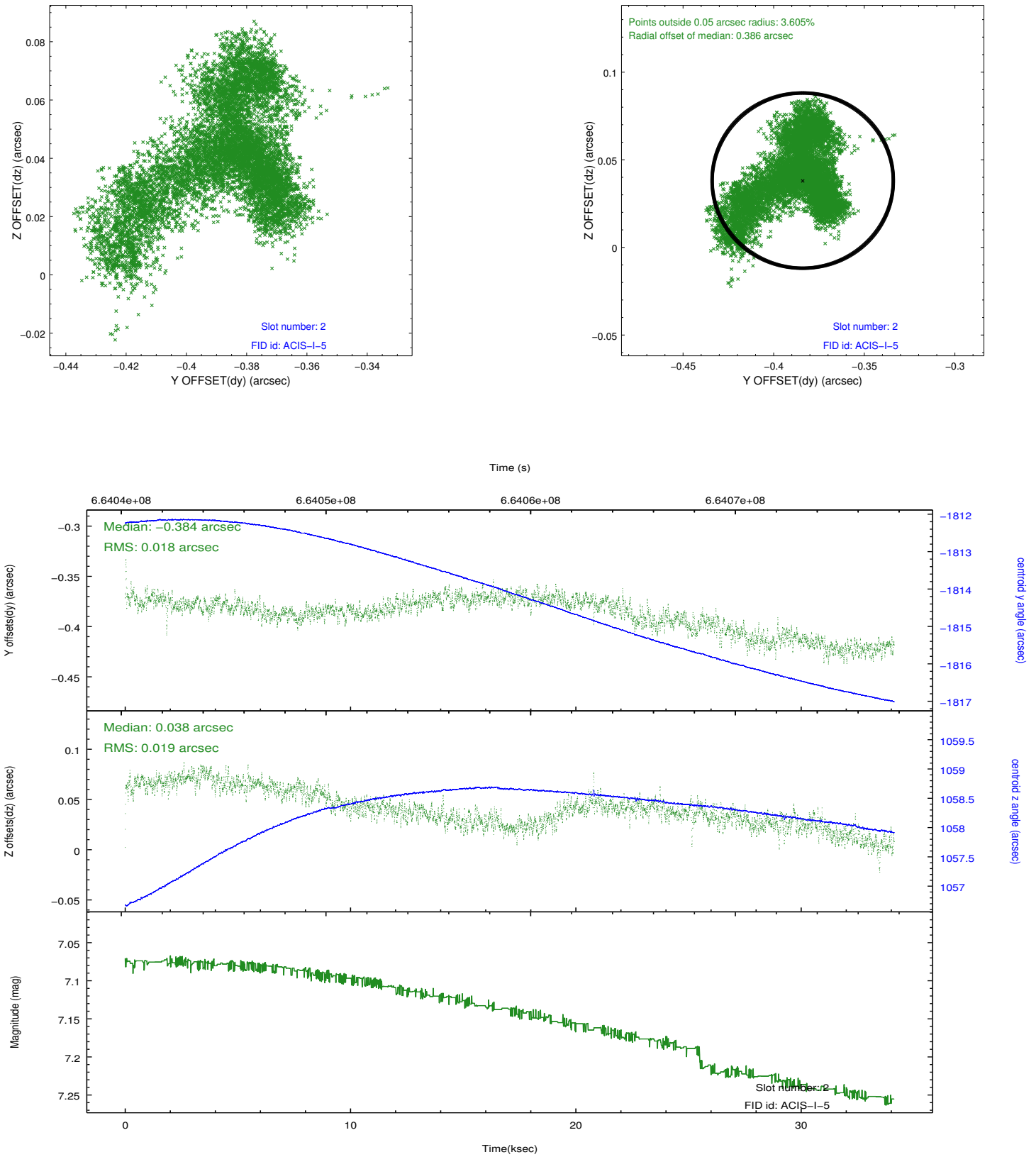
2.5.1 Slot 0



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)	2019.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.907702391386

A.2 Comments