

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19577 - L2 Version 1
Chandra X-Ray Center

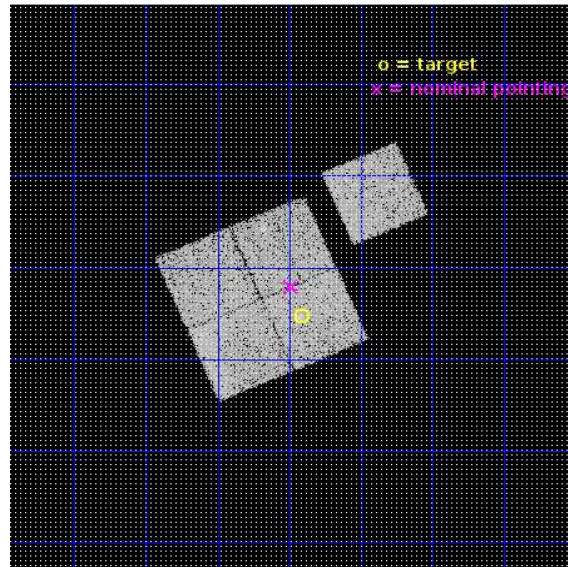
L2 Processing Date : Oct 17 2017

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1 Front

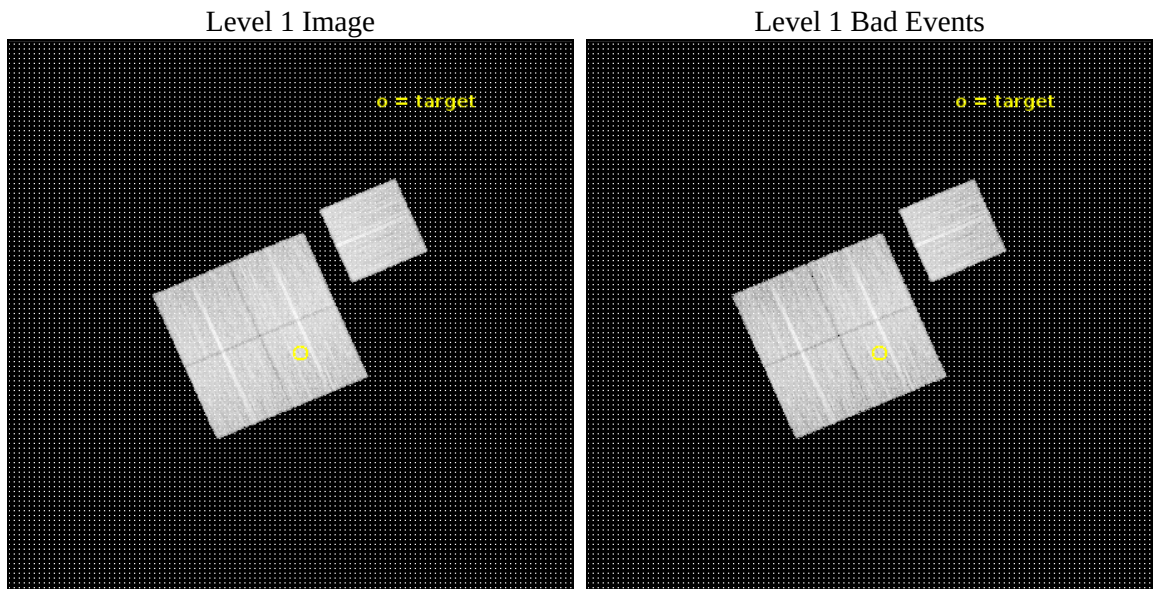
seq_num	801669	Sequence number
obs_id	19577	Observation id
title	Determining the Universality of f _{gas} at High Redshift	Proposal ti
observer	Mark Brodwin	Principal investigator
object	MOO J0319-0025	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.851667	Observer's specified target RA [deg]
dec_targ	-0.4225	Observer's specified target Dec [deg]
ra_nom	49.871046641916	Nominal RA [deg]
dec_nom	-0.36817875419011	Nominal Dec [deg]
roll_nom	66.708826775298	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18066.80013907	Sum of GTIs [s]
livetime	17830.744094668	Livetime [s]
ontime0	18066.80013907	Sum of GTIs [s]
ontime1	18066.80013907	Sum of GTIs [s]
ontime2	18066.80013907	Sum of GTIs [s]
ontime3	18066.80013907	Sum of GTIs [s]
ontime6	18063.659158826	Sum of GTIs [s]
l2events	57873	Number of level 2 events



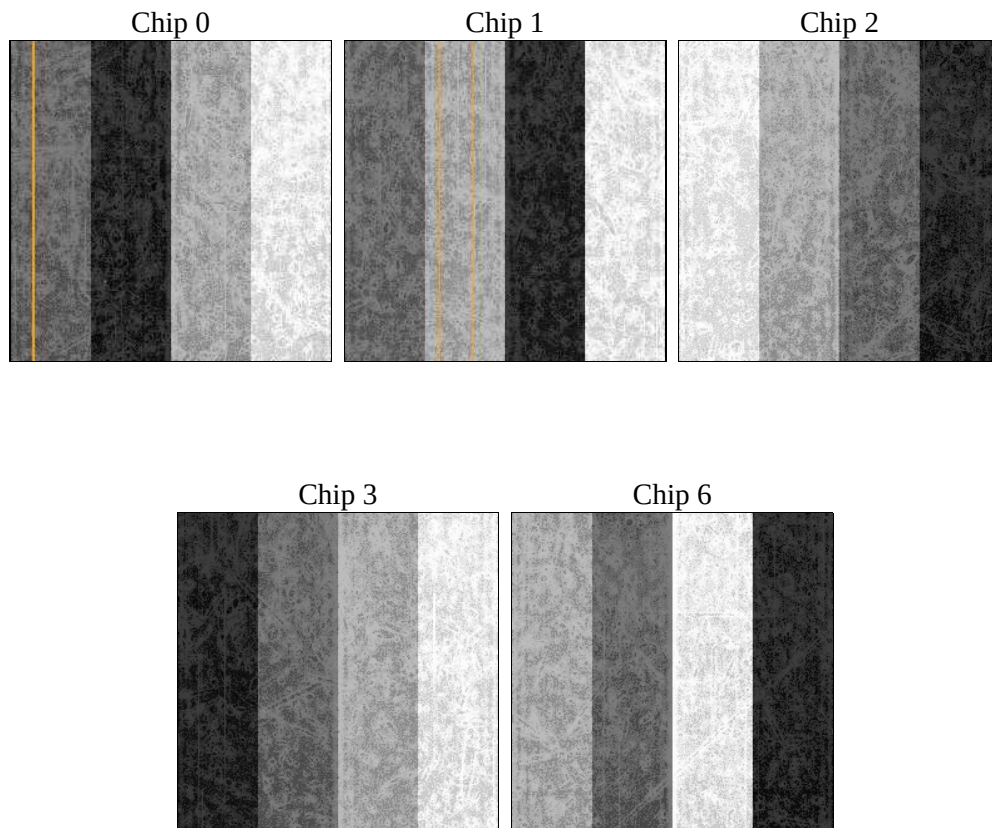
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18066.80013907	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	18066.80013907	Sum of GTIs [s]
date	2017-10-17T04:58:18	Date and time of file creation	ontime1	18066.80013907	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18066.80013907	Sum of GTIs [s]
			ontime3	18066.80013907	Sum of GTIs [s]
			ontime6	18063.659158826	Sum of GTIs [s]
			l1events	581899	Number of level 1 events

2.1.4 Events

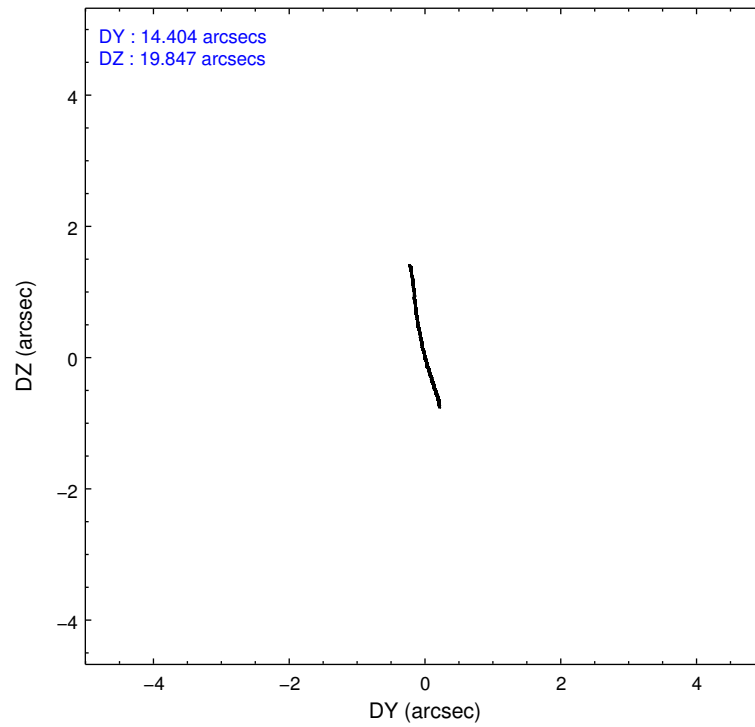
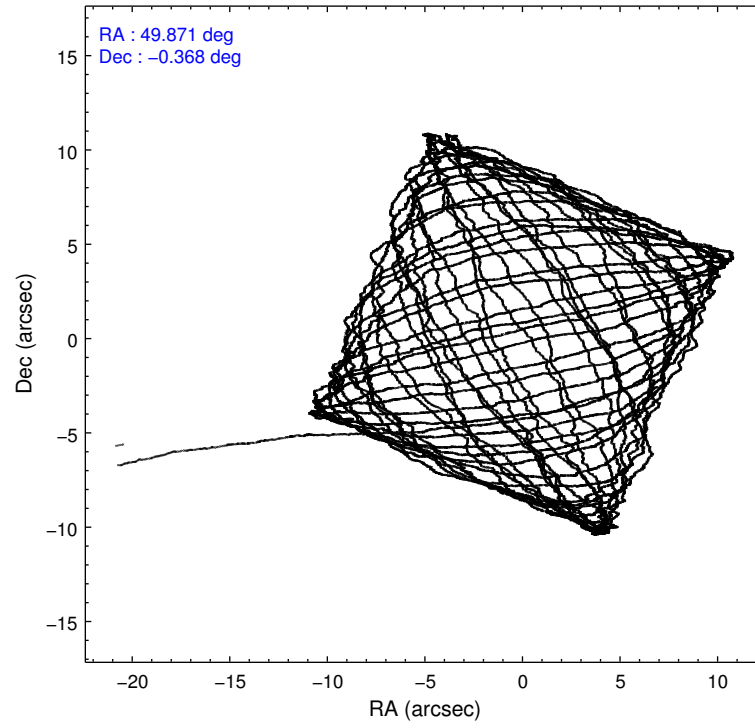
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	106746	113782	123824	117765	119782
rejected events	93324	98749	110437	104649	106093
rejected %	87%	86%	89%	88%	88%

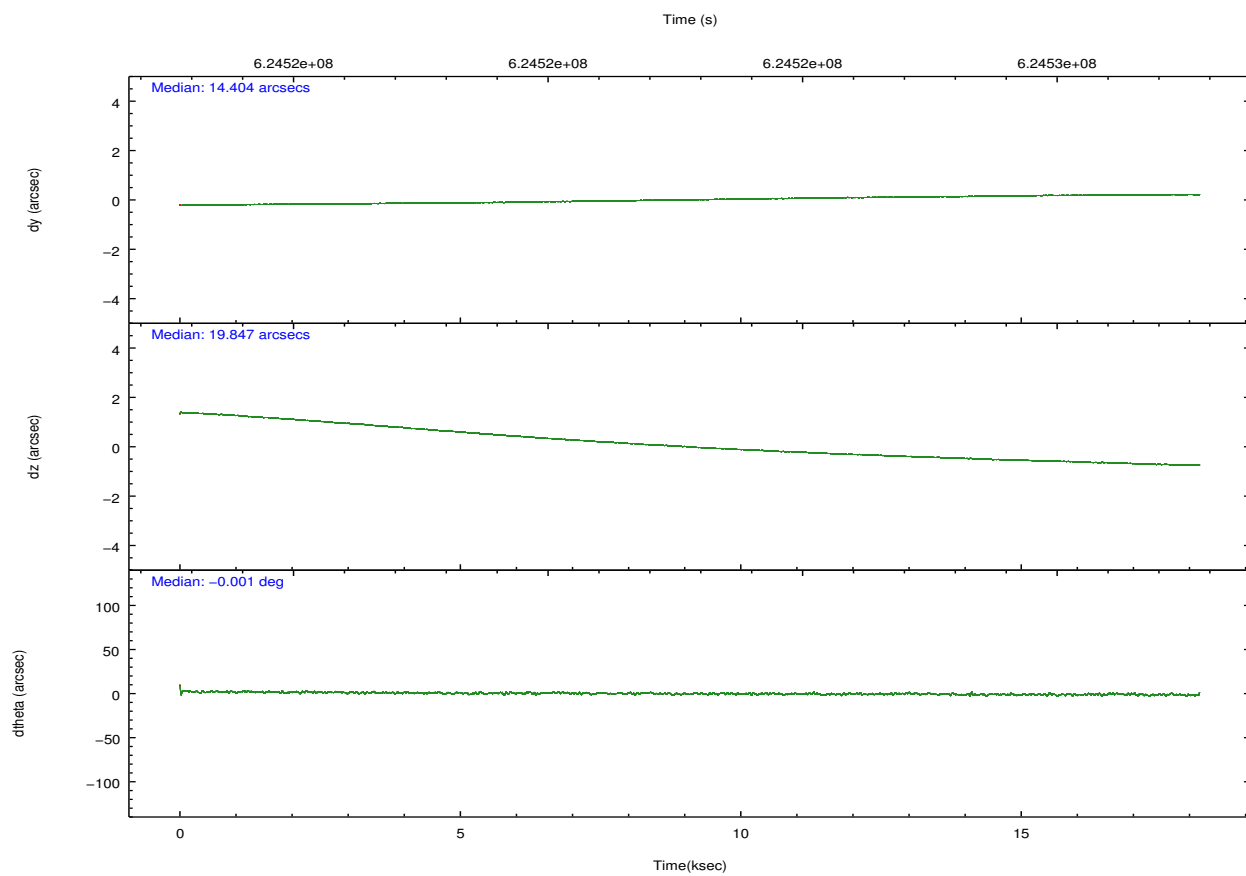
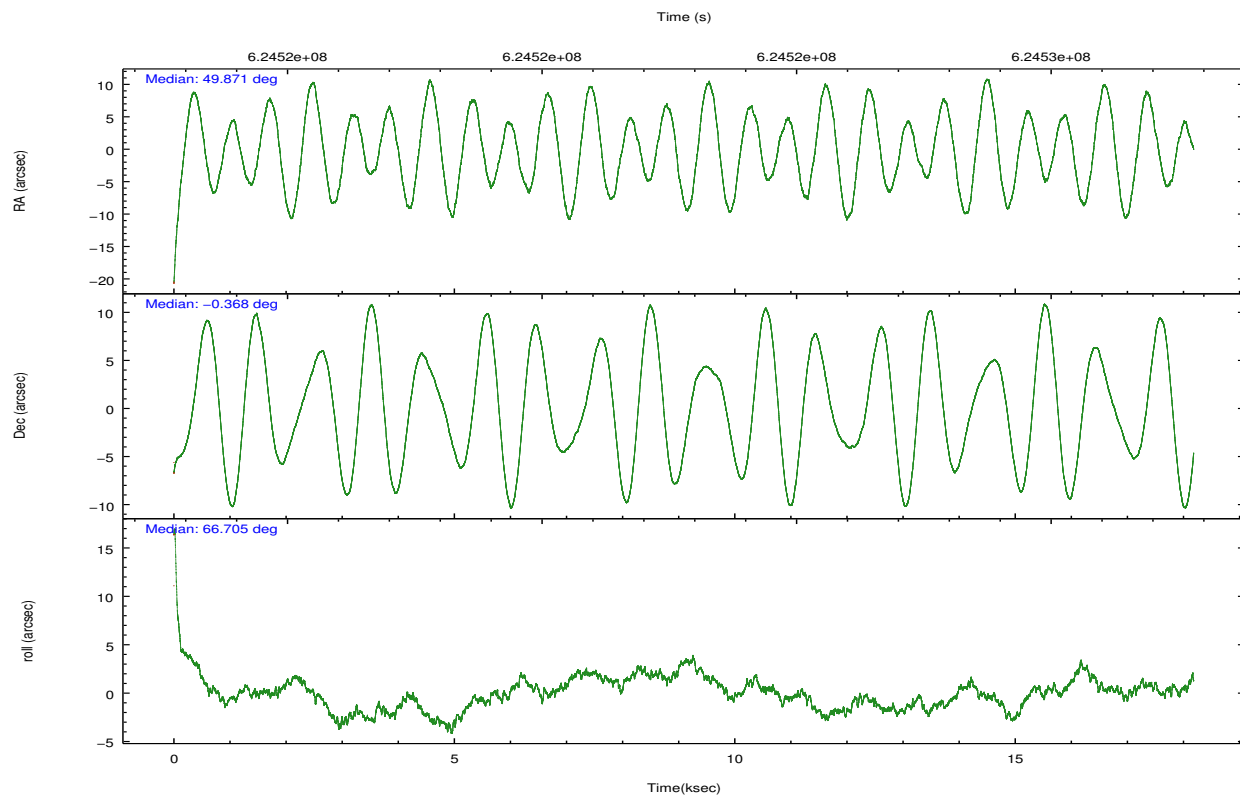
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4574	4997	4775	4586	4531
	4%	4%	3%	3%	3%
grade 1 events	67	58	66	72	53
	0%	0%	0%	0%	0%
grade 2 events	3378	3799	3419	2950	3203
	3%	3%	2%	2%	2%
grade 3 events	1436	1520	1318	1342	1415
	1%	1%	1%	1%	1%
grade 4 events	1270	1407	1341	1383	1390
	1%	1%	1%	1%	1%
grade 5 events	5254	5651	4832	5988	5860
	4%	4%	3%	5%	4%
grade 6 events	2768	3318	2536	2857	3158
	2%	2%	2%	2%	2%
grade 7 events	87999	93032	105537	98587	100172
	82%	81%	85%	83%	83%

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	49.874378	49.87104664191561	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.395561	-0.3681787541901082	CCD I3 on	Y	Y
[deg] Pointing Roll	66.500154	66.70882677529839	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	-225.840463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	624513881.184000	624512622.92485	CCD S5 on	N	N
Observation start date	2017-10-16T04:03:32	2017-10-16T03:43:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	624531881.184000	624533055.78855	On-chip summing requested	N	N
Observation end date	2017-10-16T09:03:32	2017-10-16T09:24:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



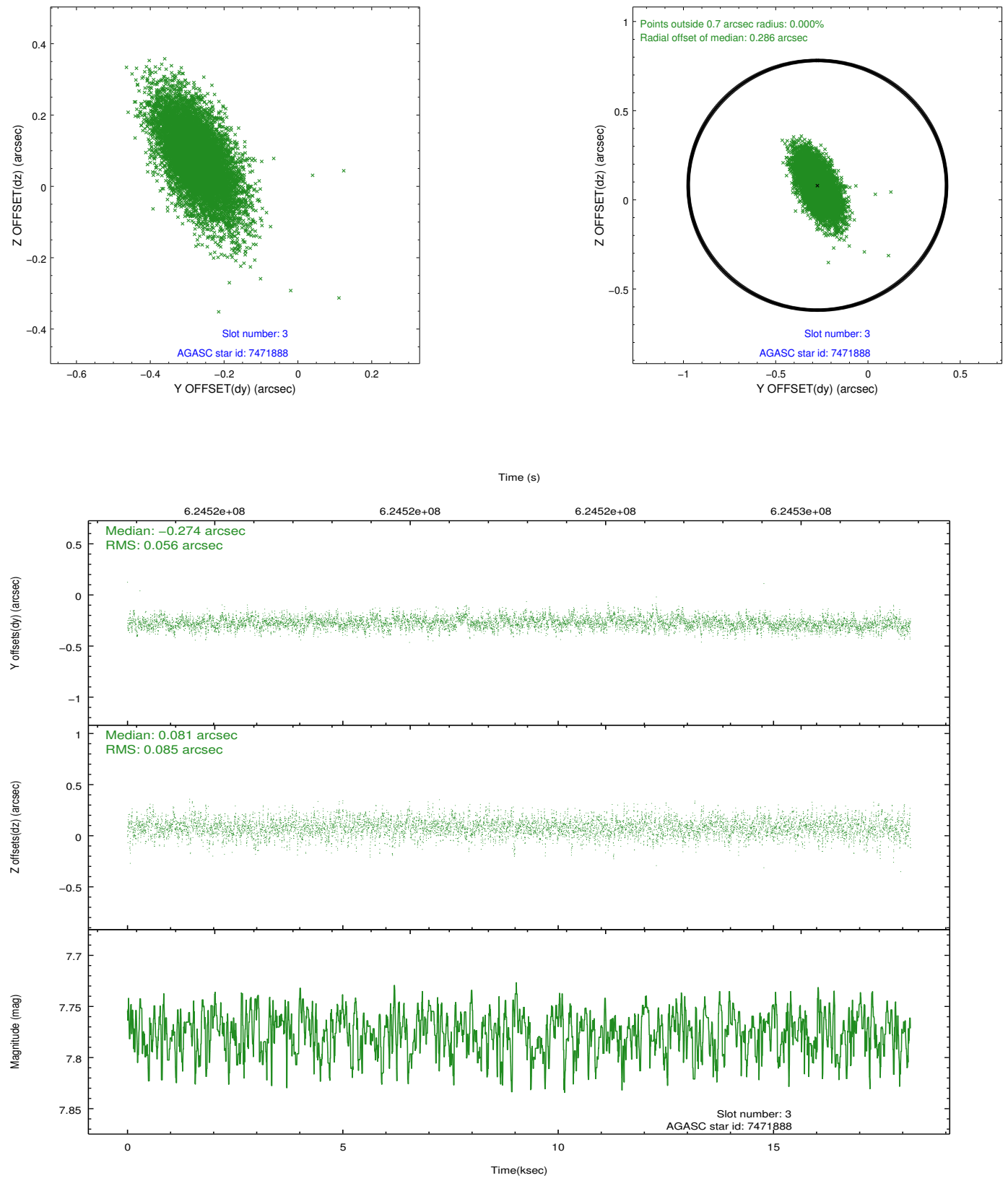


Slot Statistics

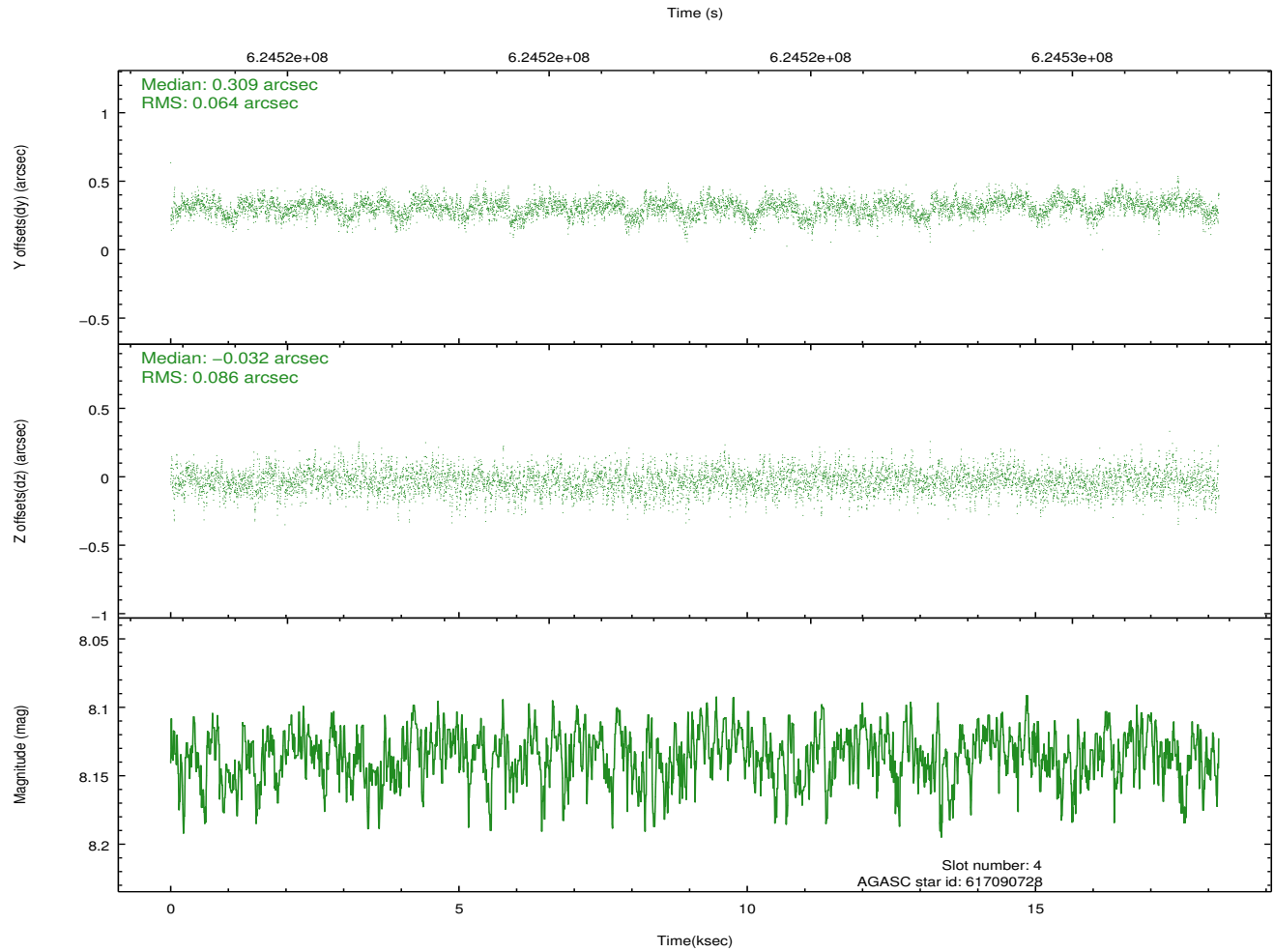
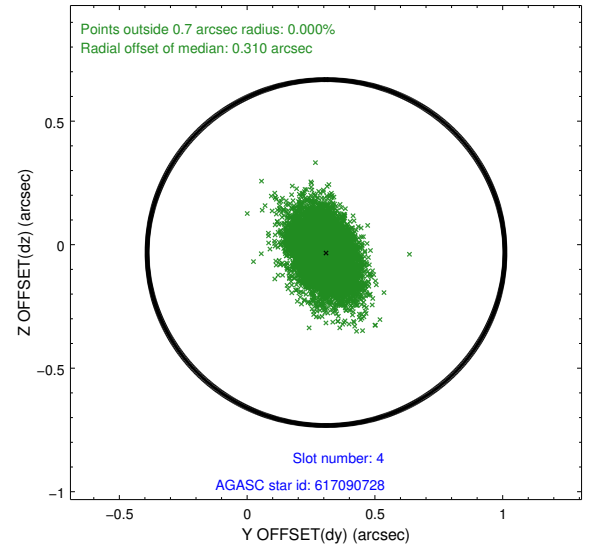
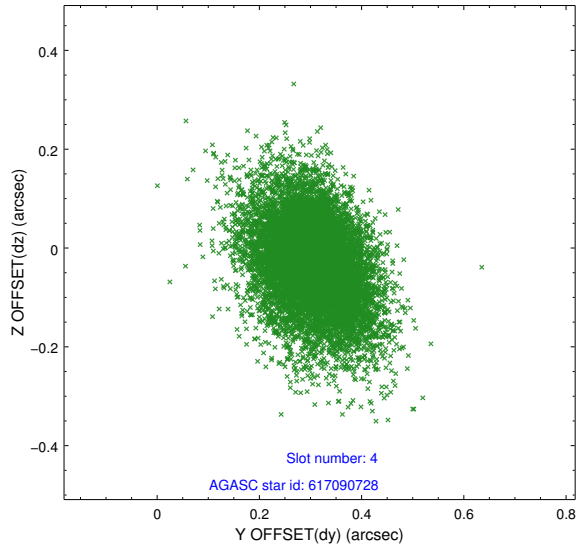
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.04	4435	-0.337	-0.203	0.008	0.016	0.000000	0.000000	-770.02	-1008.25
1	FID		ACIS-I-4	7.00	4434	0.125	0.256	0.013	0.029	0.000000	0.000000	2144.41	898.10
2	FID		ACIS-I-6	7.12	4434	0.112	0.012	0.016	0.030	0.000000	0.000000	391.25	1539.37
3	GUIDE	used	7471888	7.77	8870	-0.274	0.081	0.102	0.188	50.302431	0.059105	2115.41	-760.29
4	GUIDE	used	617090728	8.13	8870	0.309	-0.032	0.110	0.191	49.858601	-1.065599	-2233.52	-909.91
5	GUIDE	used	617223024	8.47	8865	0.071	-0.235	0.137	0.225	50.185855	-0.169404	1194.23	-703.82
6	GUIDE	used	617224968	8.72	8863	-0.007	0.146	0.125	0.225	50.296542	-0.525136	179.01	-1579.50
7	GUIDE	used	617222168	8.03	8868	-0.098	0.041	0.116	0.202	50.285317	-0.369555	676.17	-1319.19

2.4 Star Slots

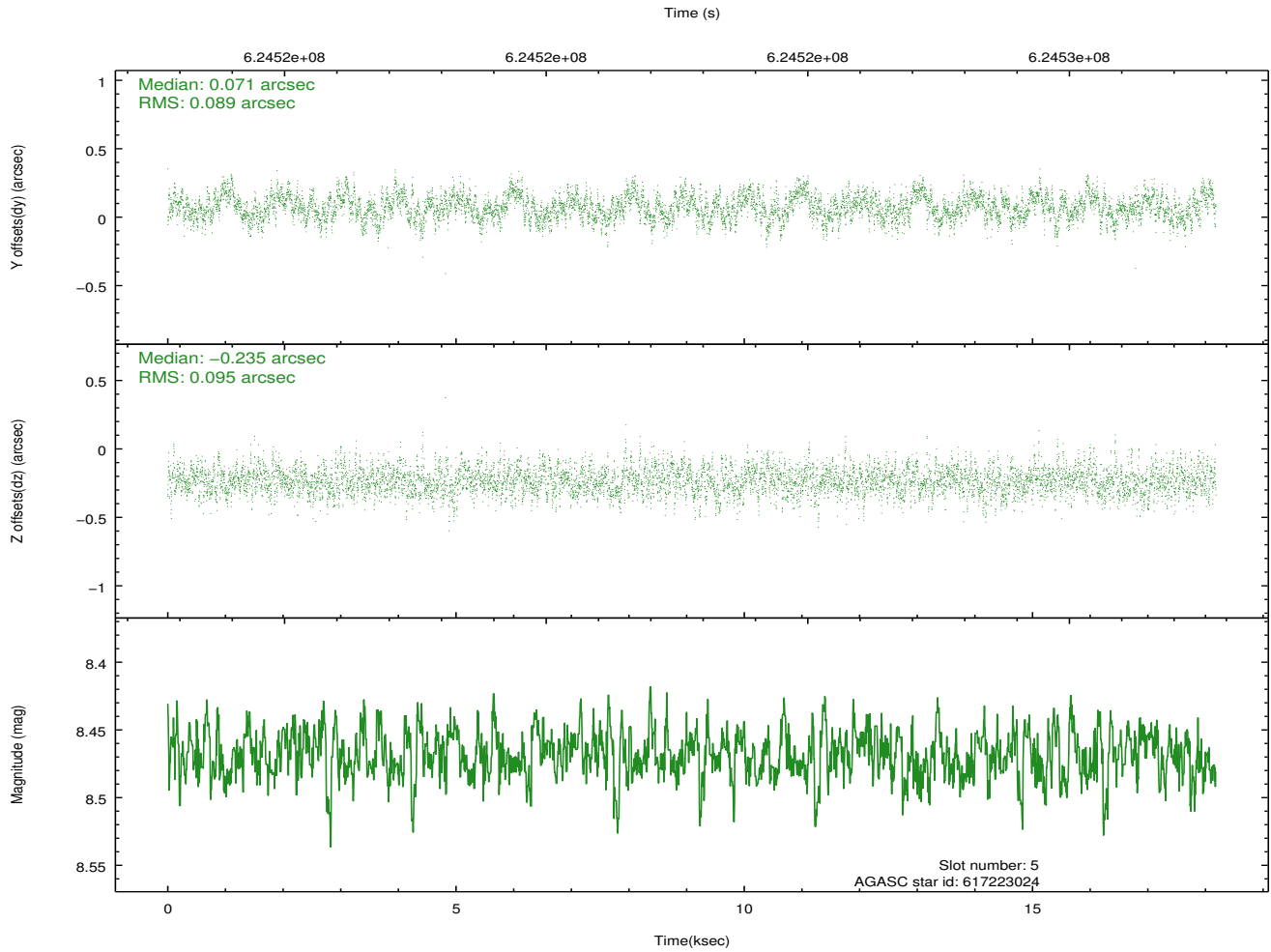
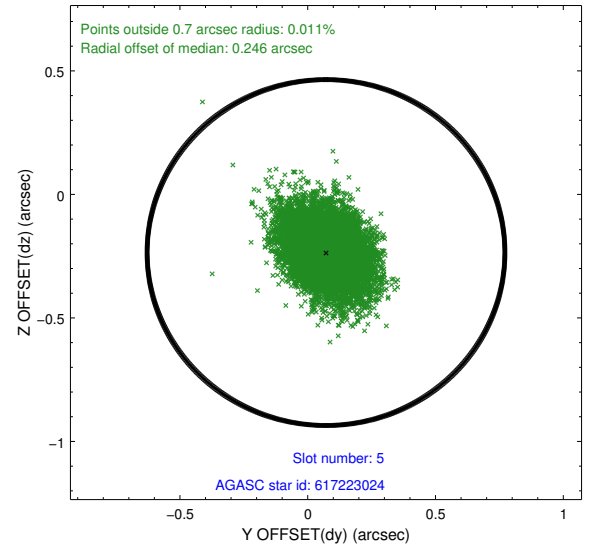
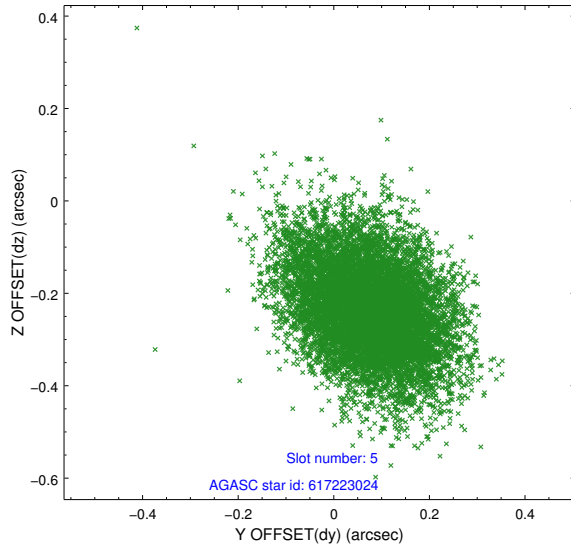
2.4.1 Slot 3



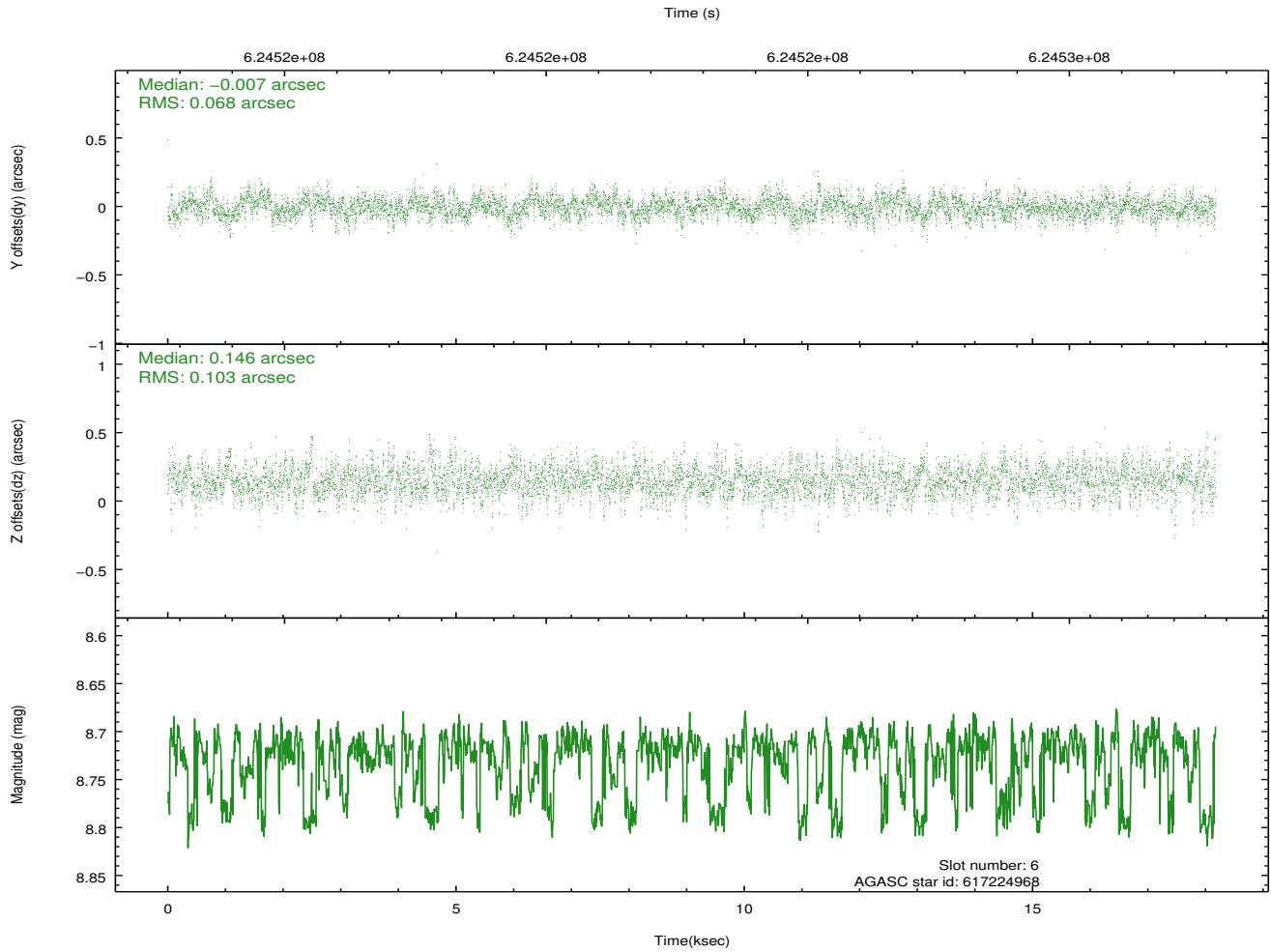
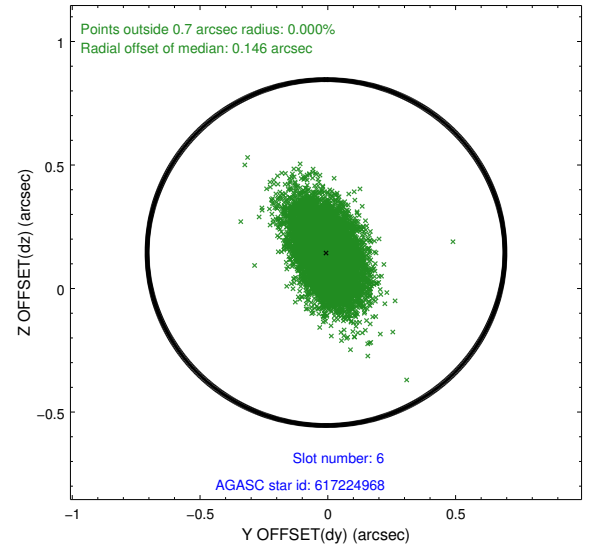
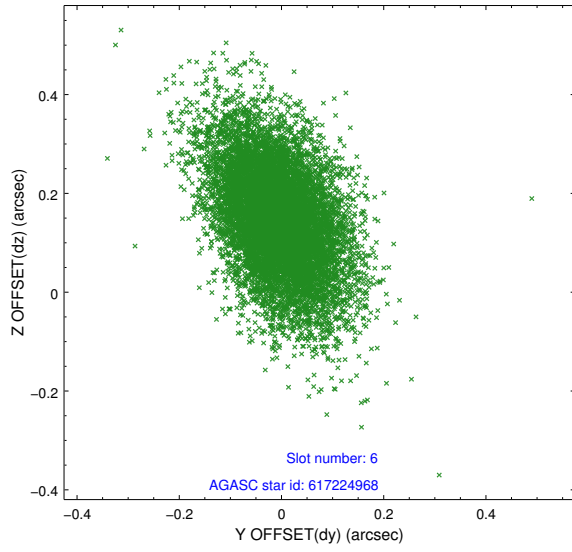
2.4.2 Slot 4



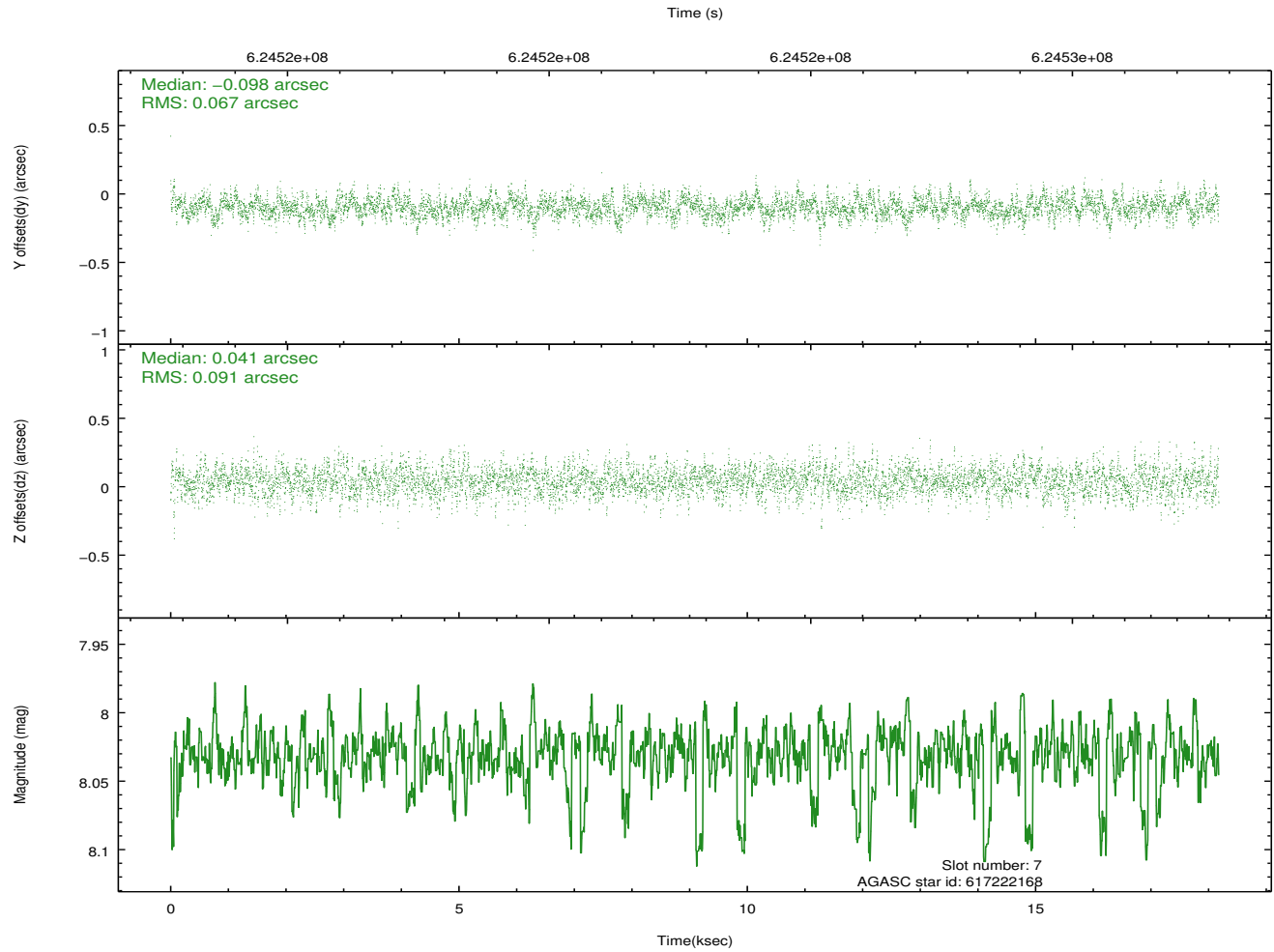
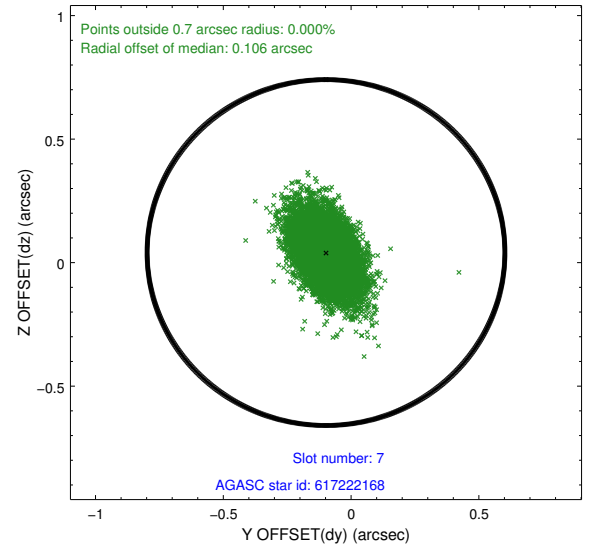
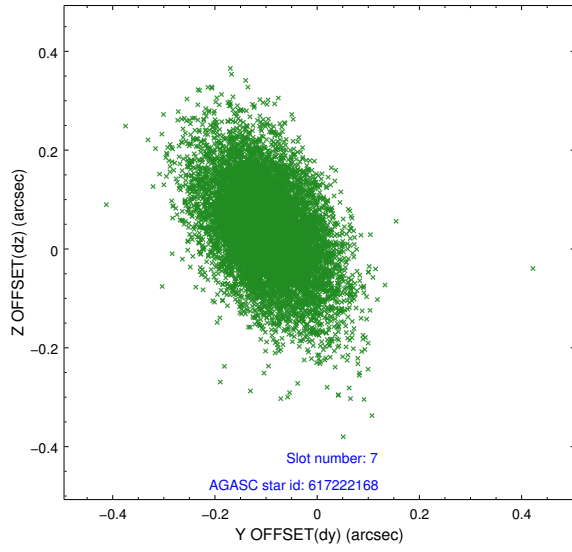
2.4.3 Slot 5



2.4.4 Slot 6

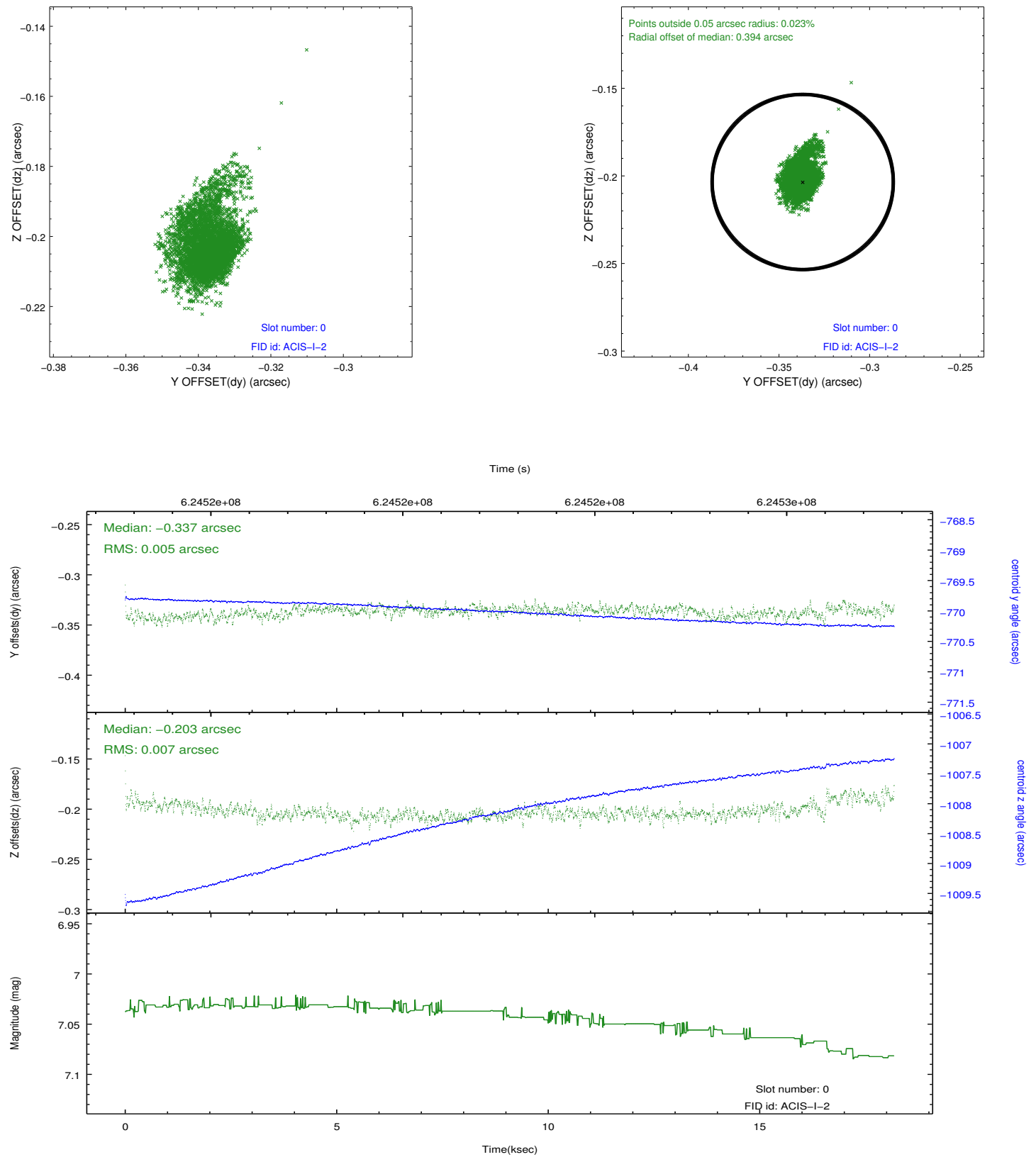


2.4.5 Slot 7

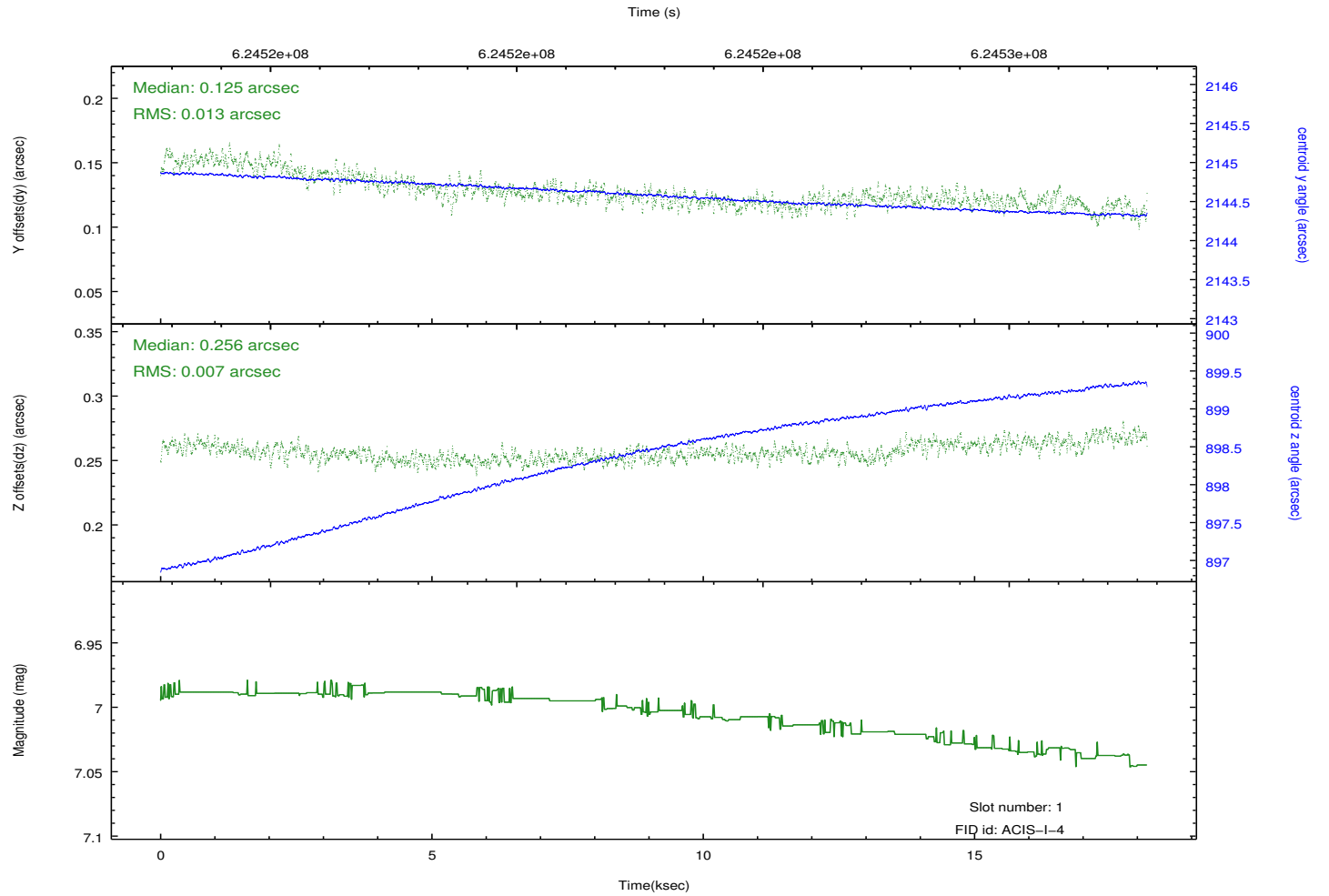
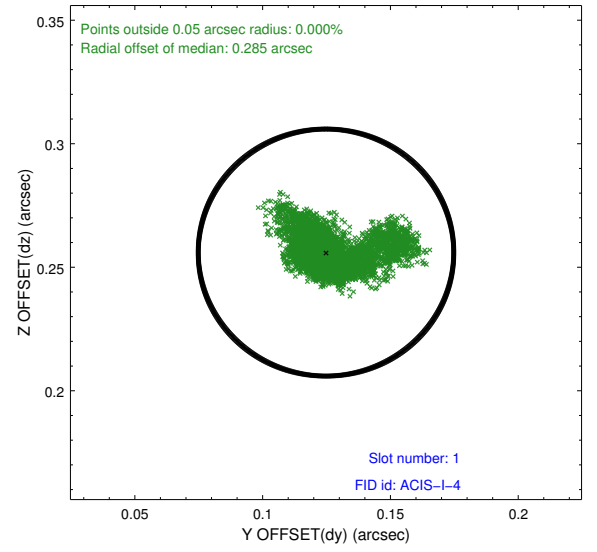
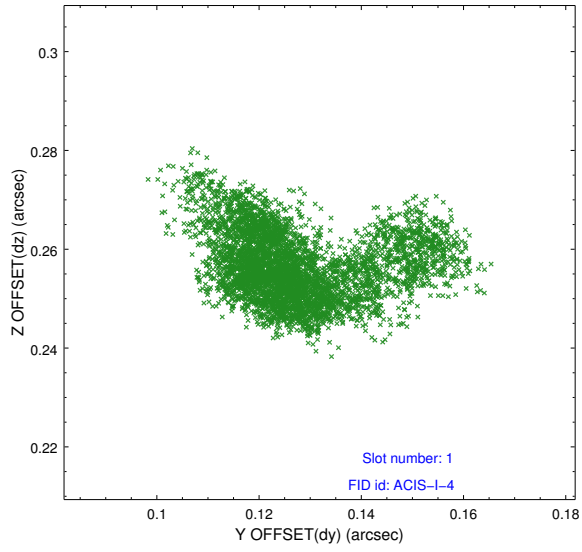


2.5 FID Slots

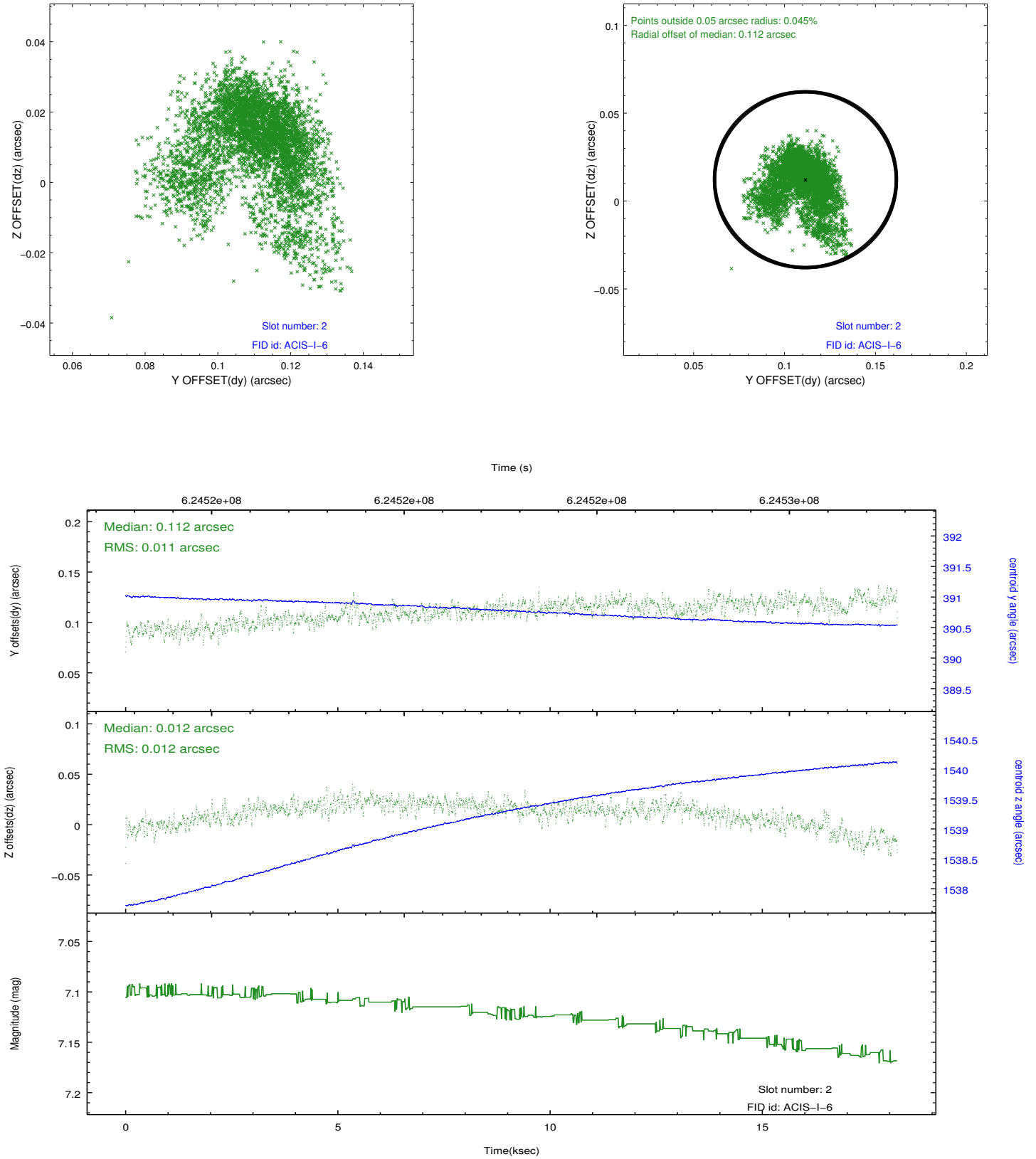
2.5.1 Slot 0



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)	2017.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.06680013907

A.2 Comments