

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19994 - L2 Version 2
Chandra X-Ray Center

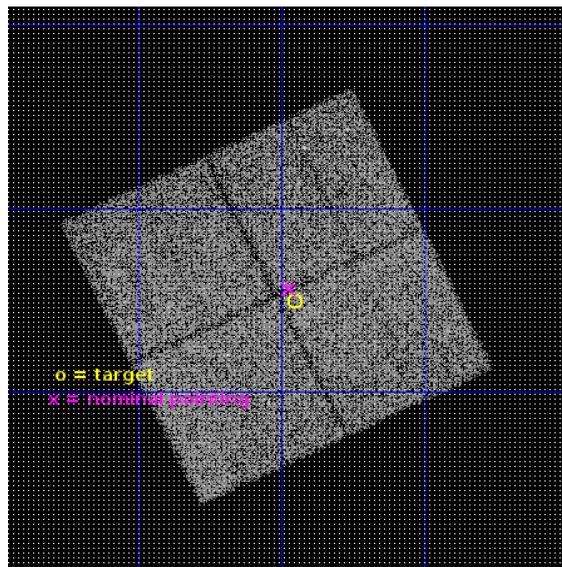
L2 Processing Date : Feb 3 2017

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1 Front

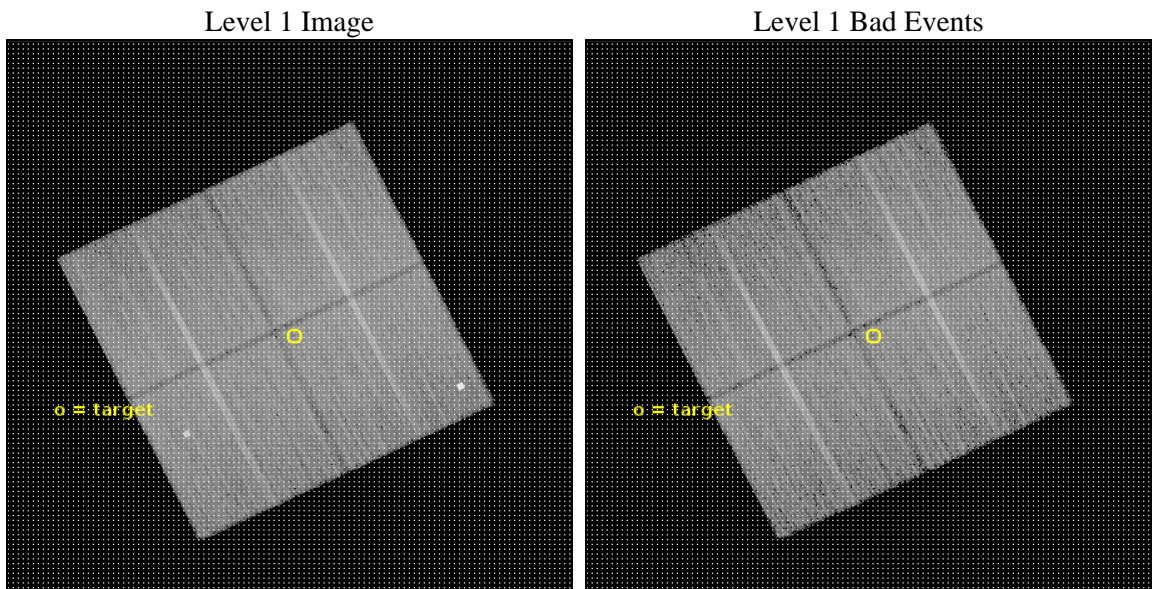
seq_num	703249	Sequence number
obs_id	19994	Observation id
title	QSOs at z=6: Black Hole Growth and Feedback in the Early Universe	
observer	Dr Roberto Gilli	Principal investigator
object	SDSSJ1030+0524	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.612917	Observer's specified target RA [deg]
dec_targ	5.415278	Observer's specified target Dec [deg]
ra_nom	157.61810700085	Nominal RA [deg]
dec_nom	5.4271091096831	Nominal Dec [deg]
roll_nom	64.208203549124	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33082.835768104	Sum of GTIs [s]
livetime	32650.584163564	Livetime [s]
ontime0	33082.712648153	Sum of GTIs [s]
ontime1	33082.753688097	Sum of GTIs [s]
ontime2	33079.653637767	Sum of GTIs [s]
ontime3	33082.835768104	Sum of GTIs [s]
l2events	83635	Number of level 2 events



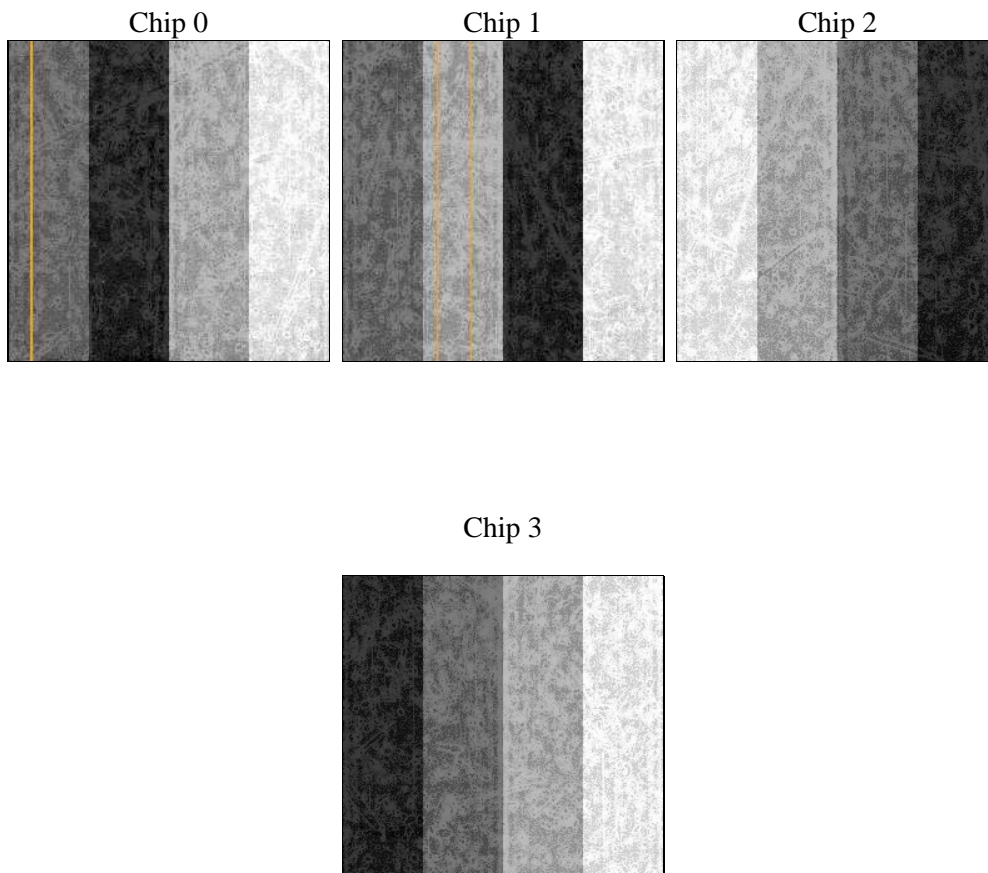
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	33082.835768104	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	33082.712648153	Sum of GTIs [s]
date	2017-02-03T15:41:53	Date and time of file creation	ontime1	33082.753688097	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	33079.653637767	Sum of GTIs [s]
			ontime3	33082.835768104	Sum of GTIs [s]
			l1events	910687	Number of level 1 events

2.1.4 Events

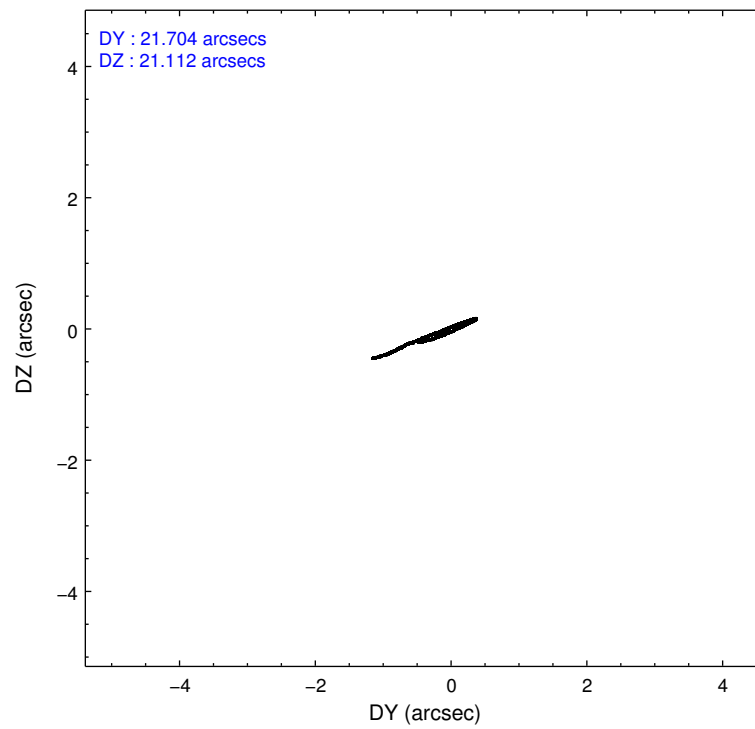
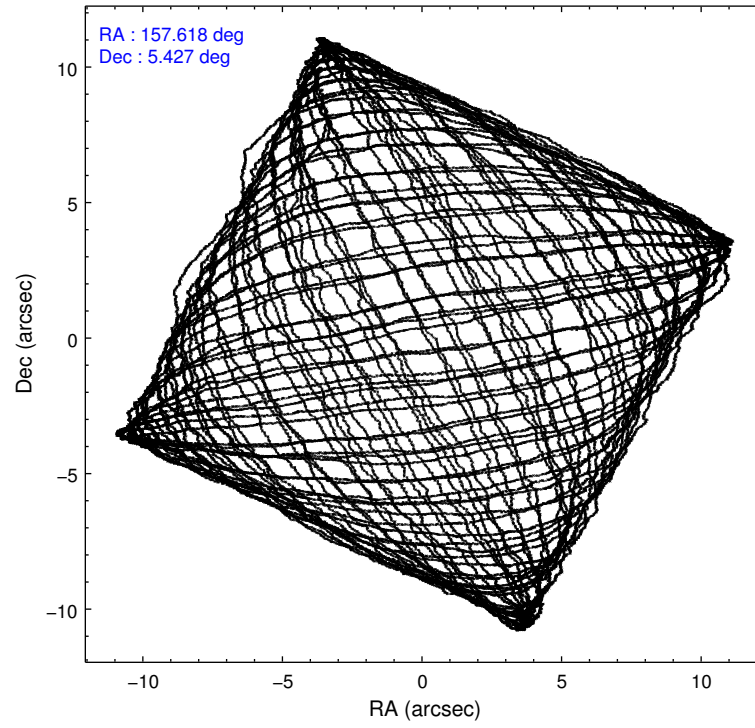
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	212217	221198	238970	238302
rejected events	187257	191232	214659	204640
rejected %	88%	86%	89%	85%

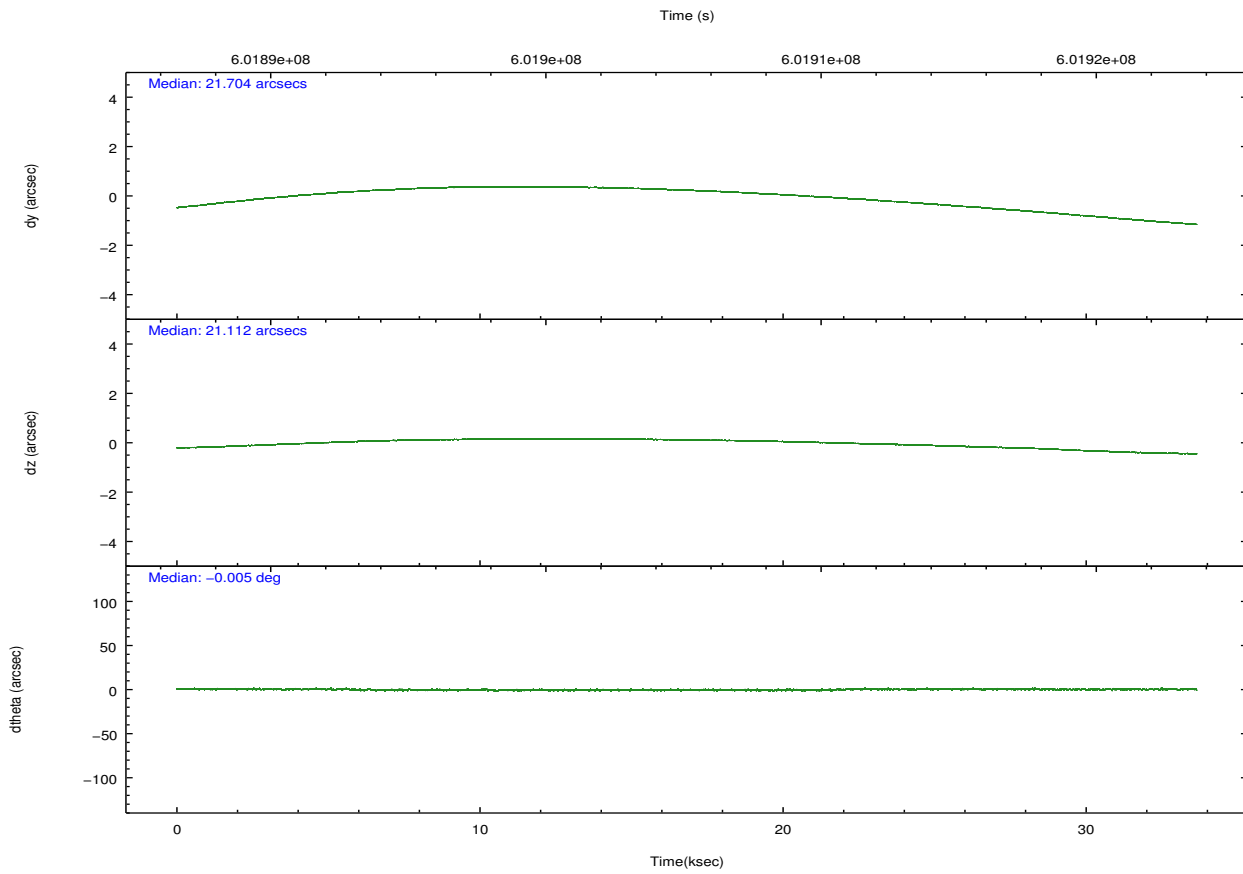
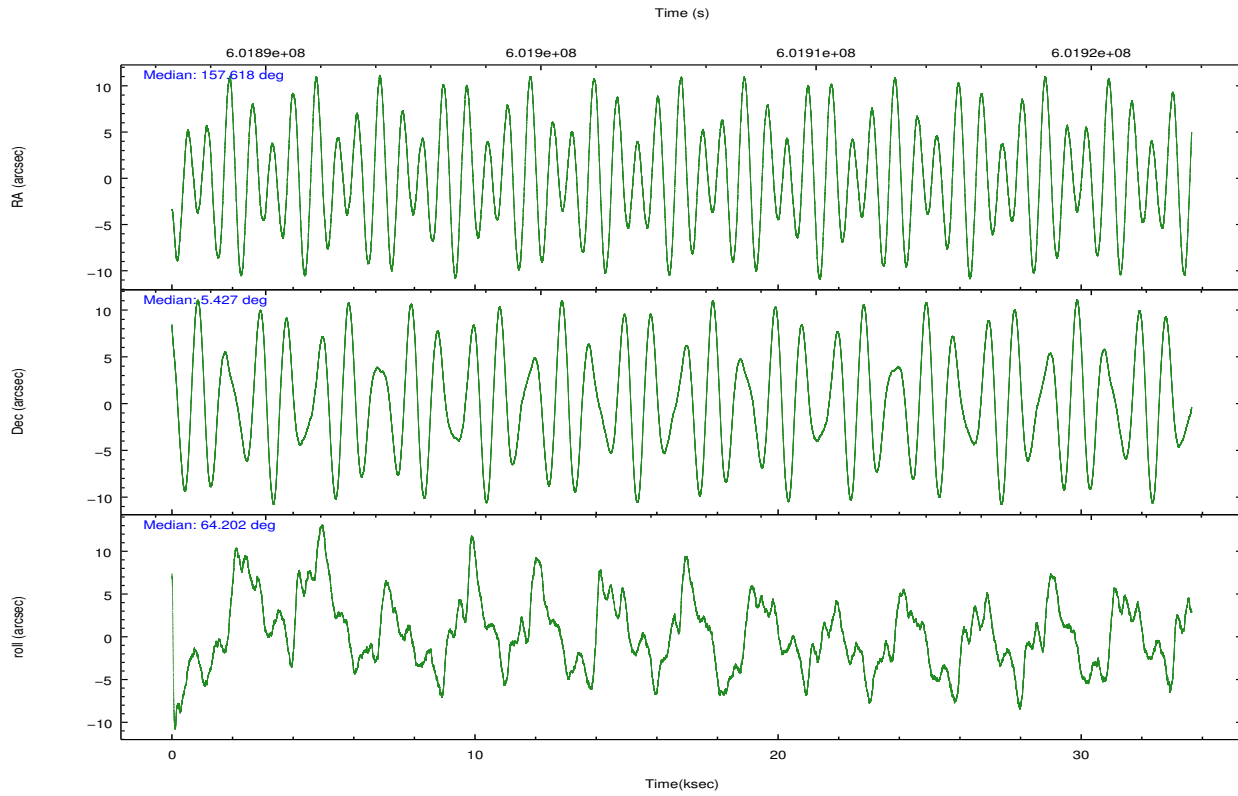
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8362	11819	8751	18182
	3%	5%	3%	7%
grade 1 events	112	125	142	150
	0%	0%	0%	0%
grade 2 events	6143	6492	5963	5273
	2%	2%	2%	2%
grade 3 events	2661	2662	2436	2497
	1%	1%	1%	1%
grade 4 events	2481	2573	2506	2542
	1%	1%	1%	1%
grade 5 events	9497	10130	8917	11056
	4%	4%	3%	4%
grade 6 events	5318	6427	4662	5173
	2%	2%	1%	2%
grade 7 events	177643	180970	205593	193429
	83%	81%	86%	81%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	157.620265	157.6181070008466	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.399600	5.427109109683106	Alternating exposures requested	N	N
[deg] Pointing Roll	63.999306	64.20820354912443	[s] Primary exposure time	0.000000	3.1
[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)	601888941.184000	601887830.9449			
Observation start date	2017-01-27T07:21:12	2017-01-27T07:03:50			
[s] Observation end time (MET)	601921941.184000	601922963.33443			
Observation end date	2017-01-27T16:31:12	2017-01-27T16:49:23			
Read mode	TIMED	TIMED			

2.3 Aspect



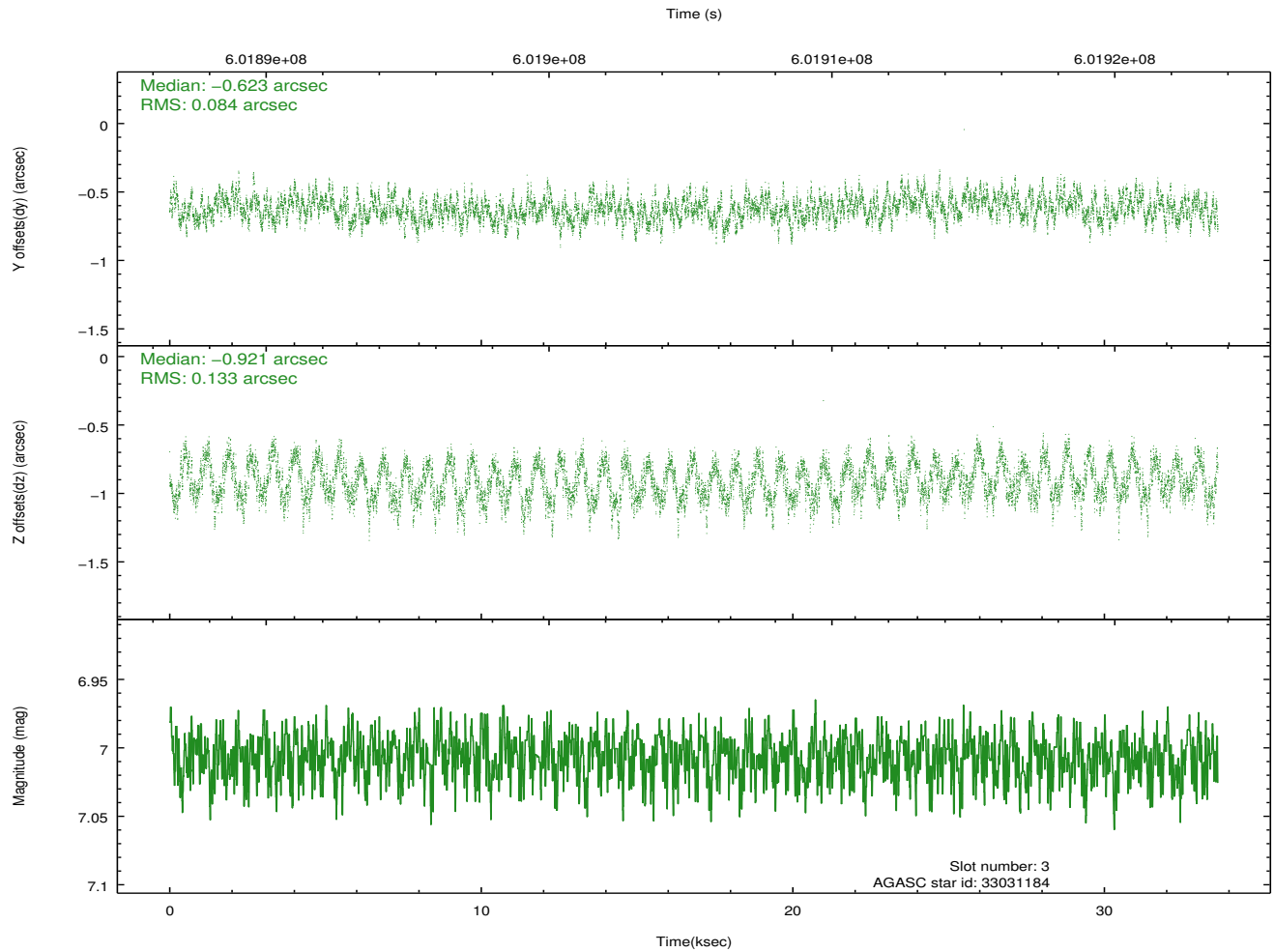
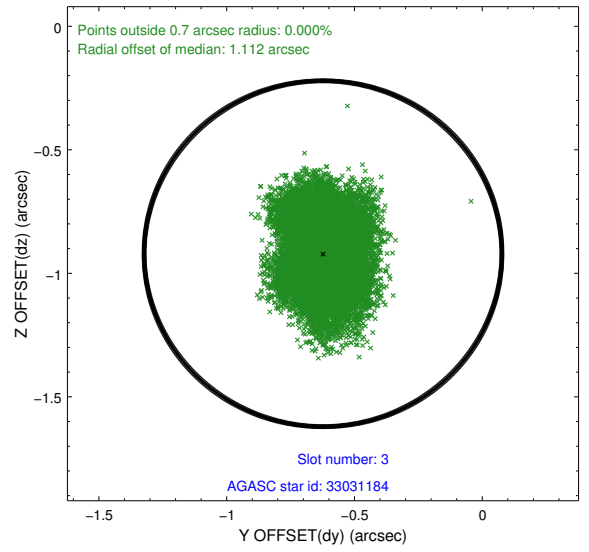
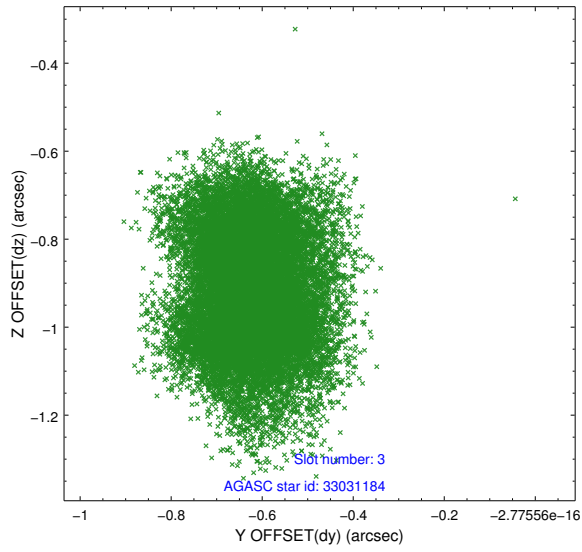


Slot Statistics

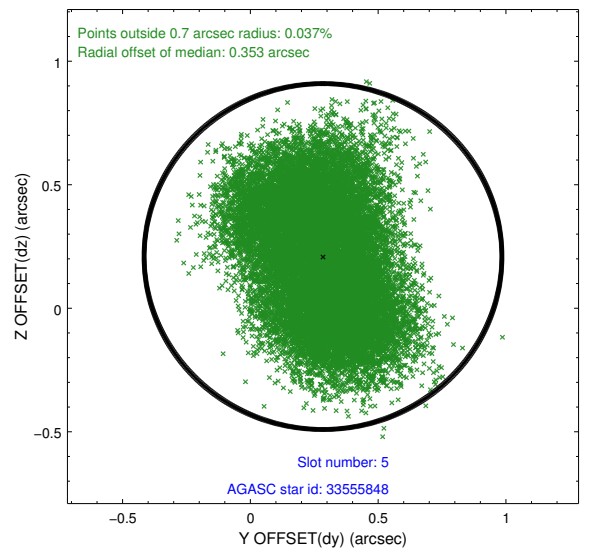
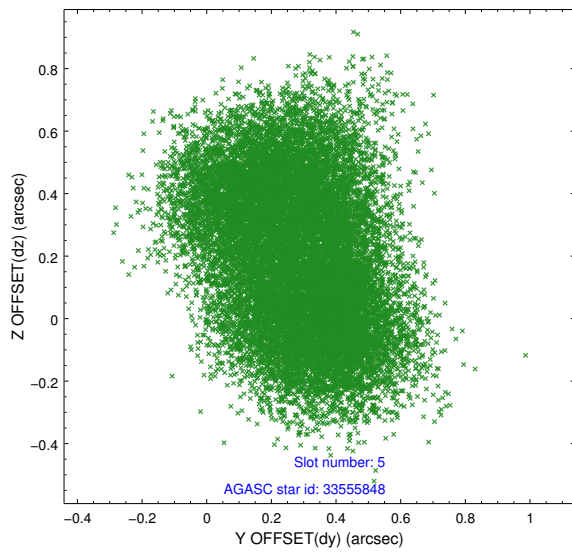
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	8206	0.104	-0.085	0.009	0.018	0.000000	0.000000	917.84	-844.86
1	FID		ACIS-I-5	7.19	8206	-0.428	0.037	0.008	0.015	0.000000	0.000000	-1830.88	1052.57
2	FID		ACIS-I-6	7.21	8207	0.233	0.120	0.008	0.012	0.000000	0.000000	383.31	1697.34
3	GUIDE	used	33031184	7.01	16412	-0.623	-0.921	0.170	0.266	157.337986	6.256454	2329.31	2260.28
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	33555848	9.87	16341	0.284	0.209	0.322	0.477	157.715192	4.895753	-1480.03	-1100.64
6	GUIDE	used	33557464	8.25	16407	0.454	0.049	0.139	0.231	157.961805	4.935650	-963.15	-1831.67
7	GUIDE	used	33949536	9.16	16394	-0.124	0.678	0.199	0.321	158.026617	5.246866	145.29	-1549.19

2.4 Star Slots

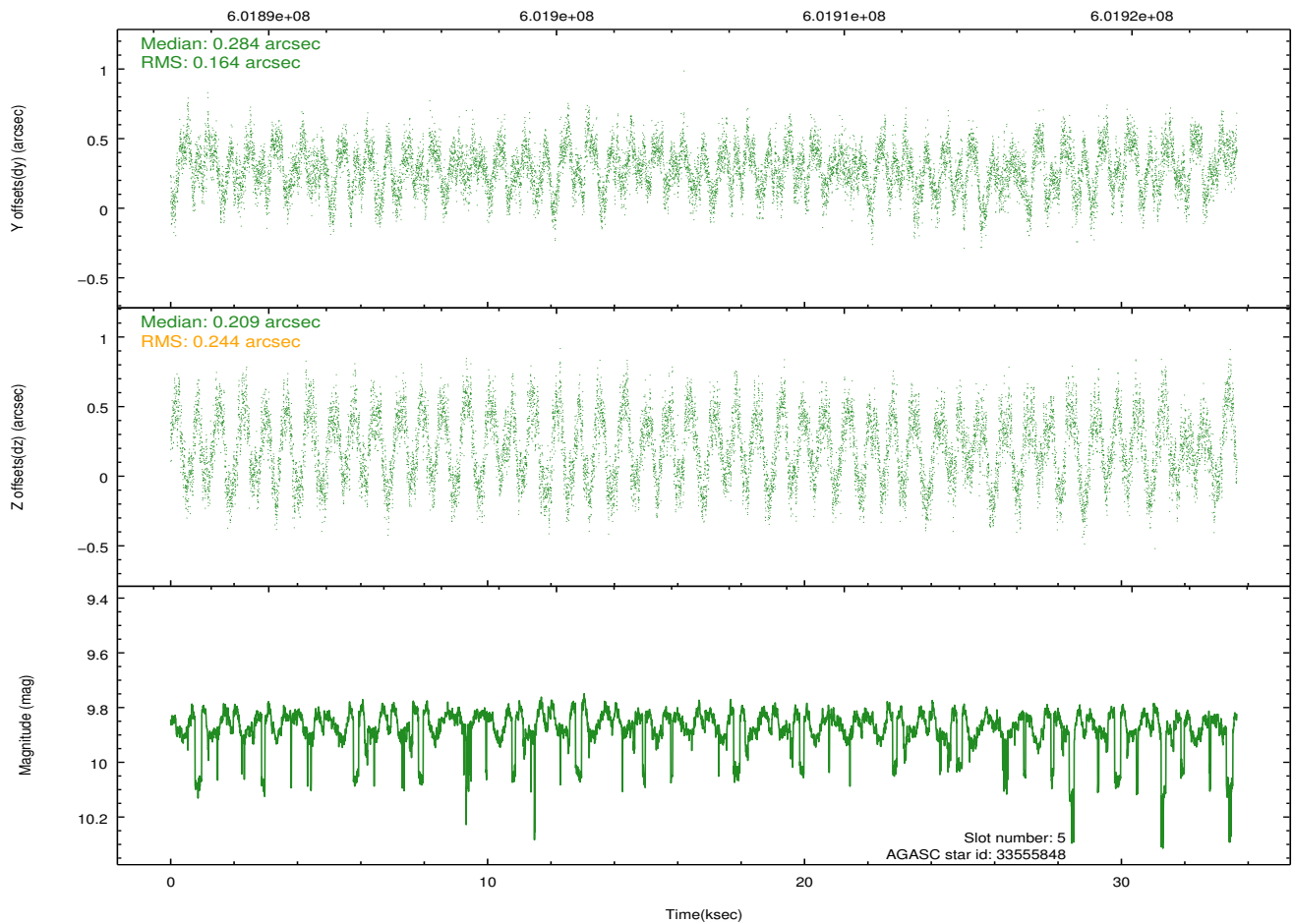
2.4.1 Slot 3



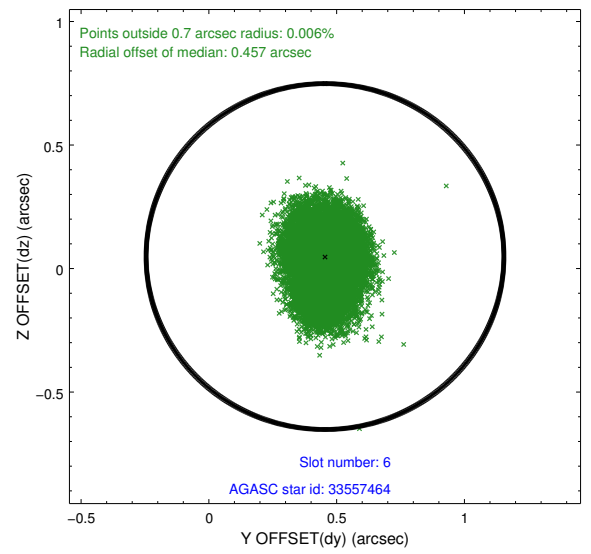
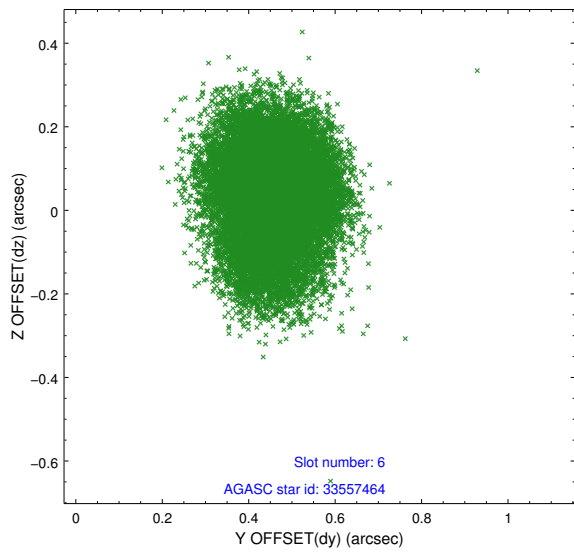
2.4.2 Slot 5



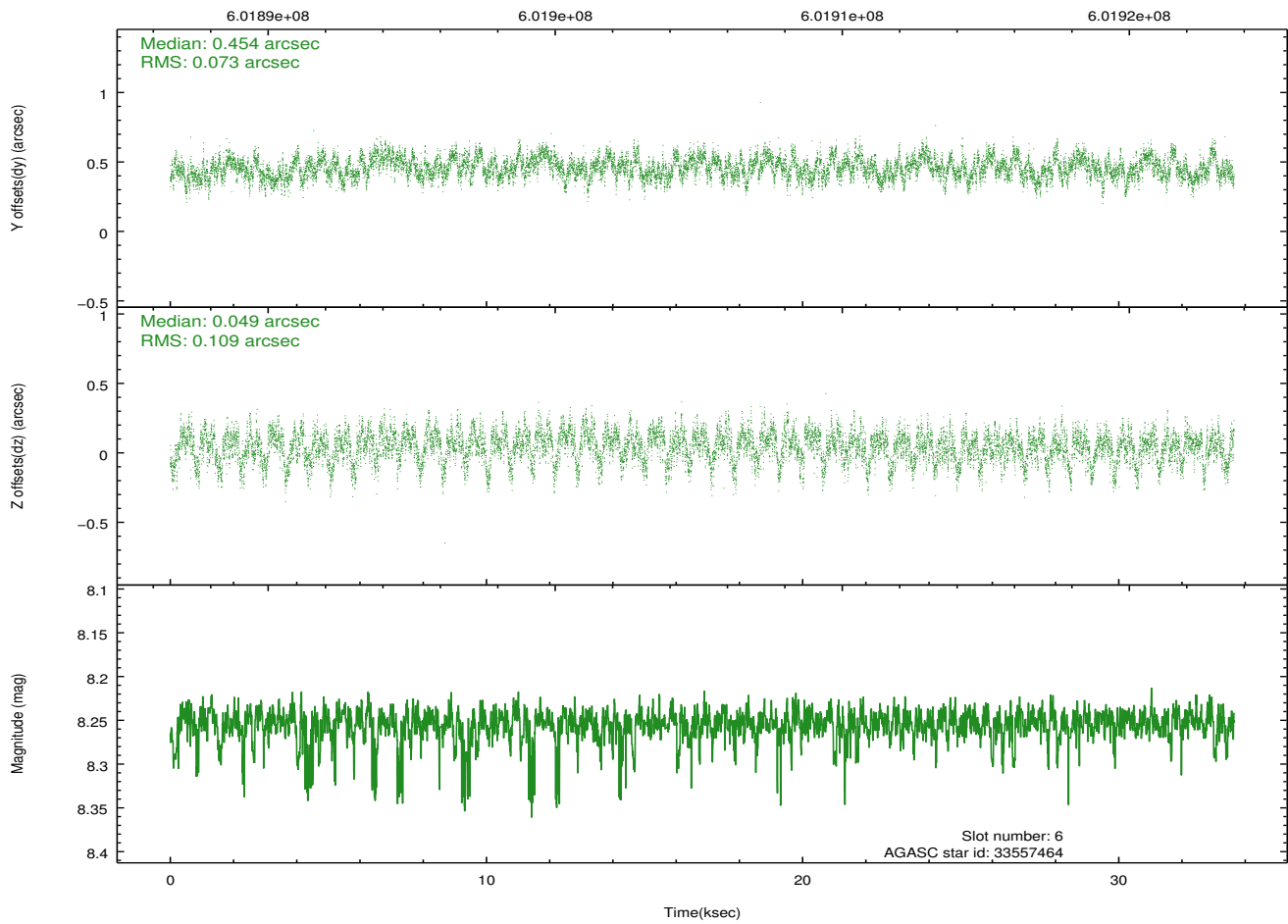
Time (s)



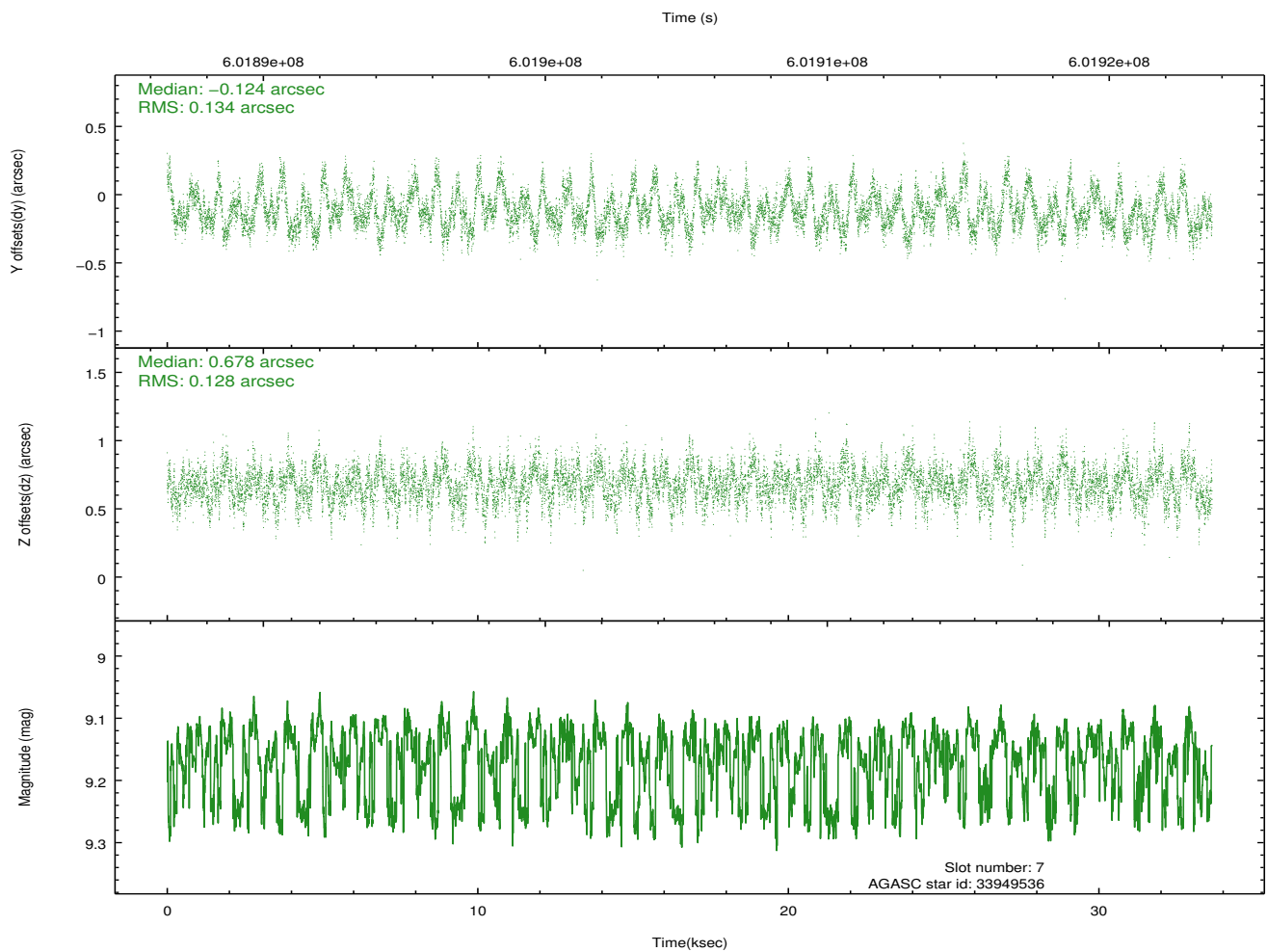
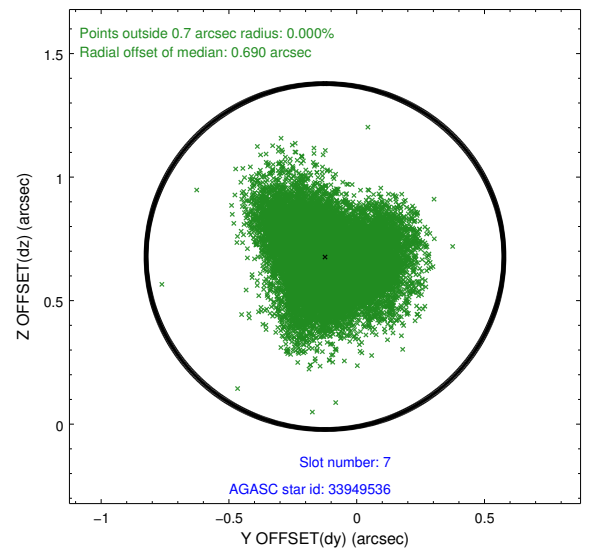
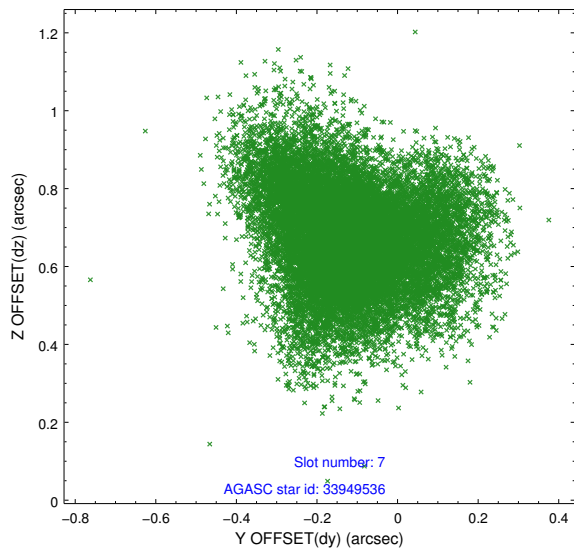
2.4.3 Slot 6



Time (s)

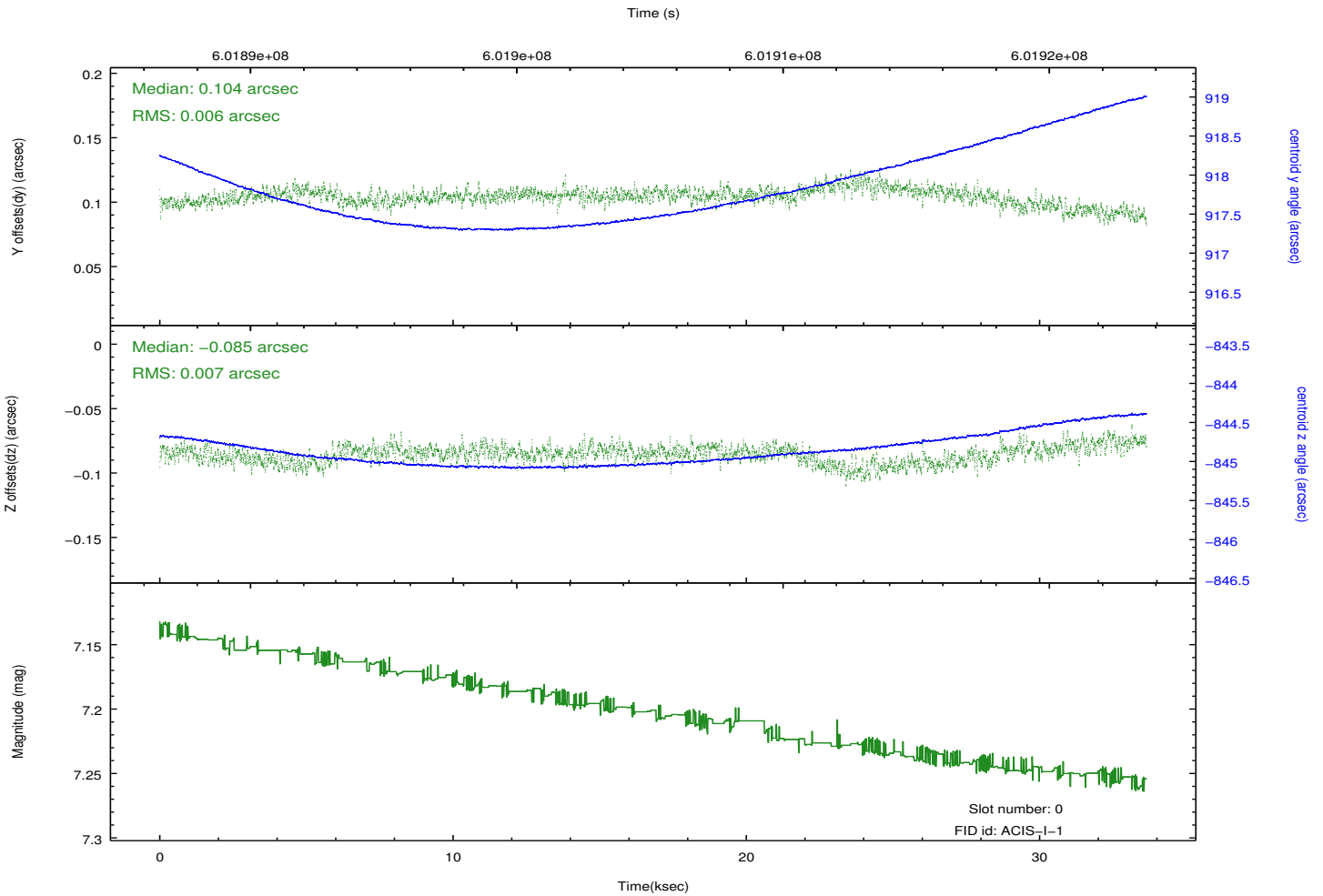
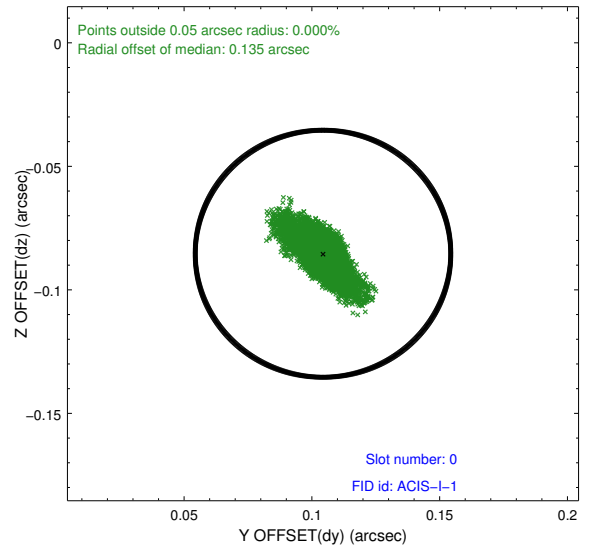
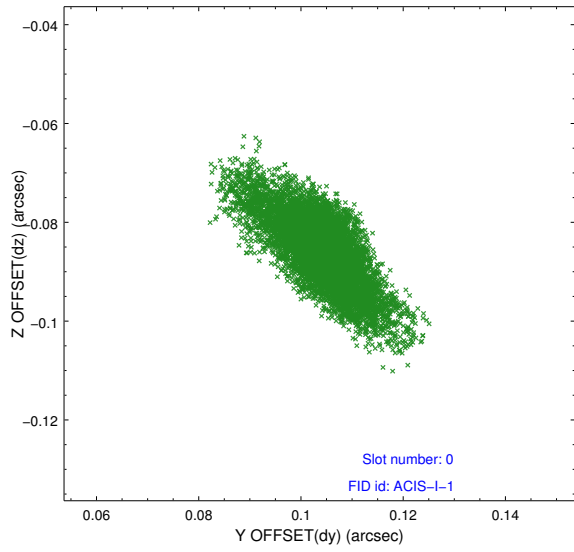


2.4.4 Slot 7

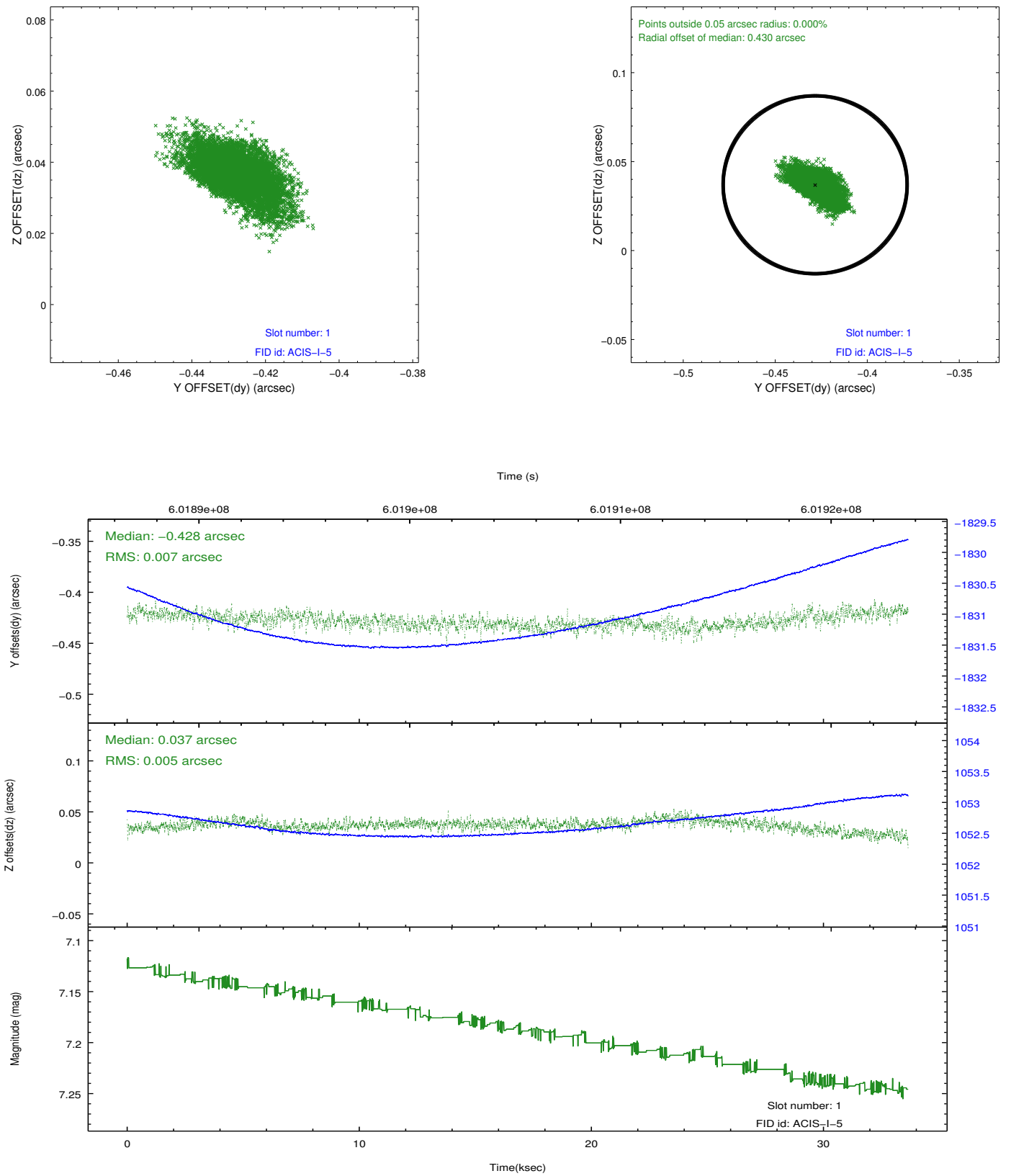


2.5 FID Slots

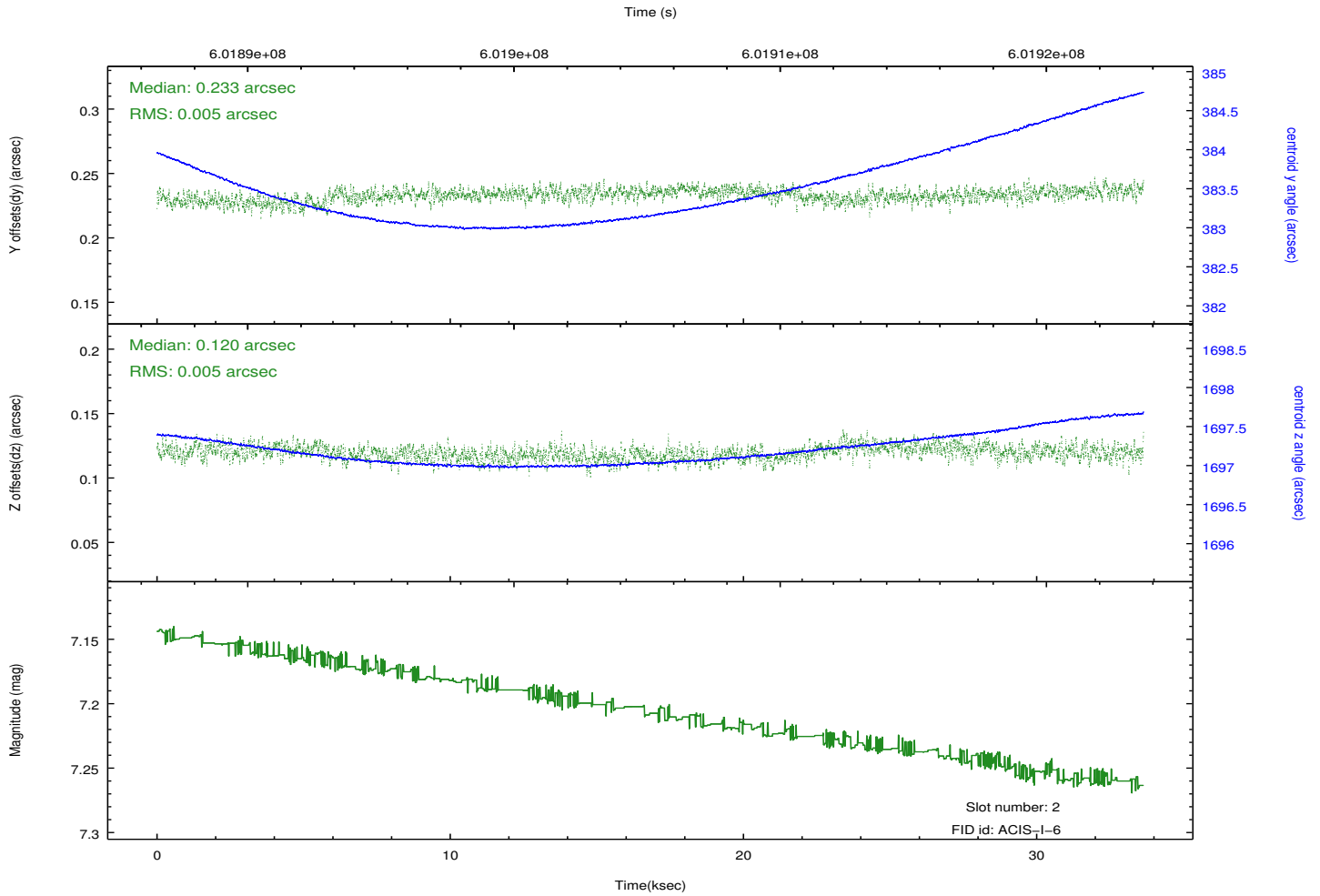
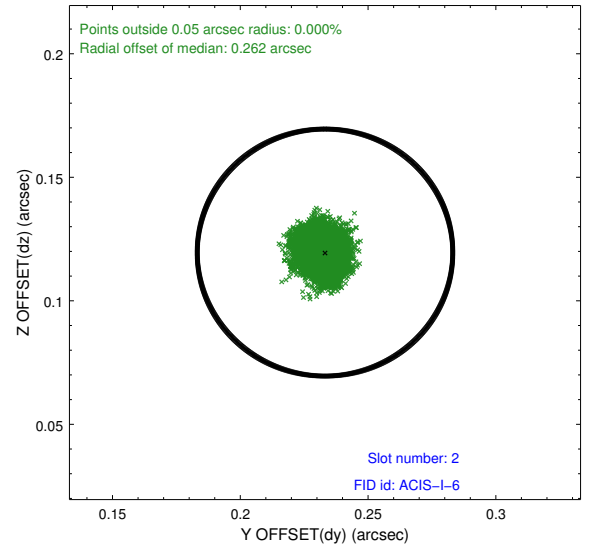
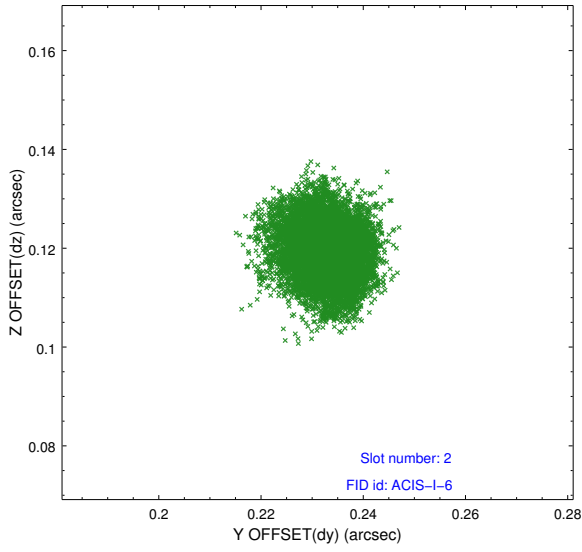
2.5.1 Slot 0



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)	2017.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.082835768104

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.