

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20484 - L2 Version 3
Chandra X-Ray Center

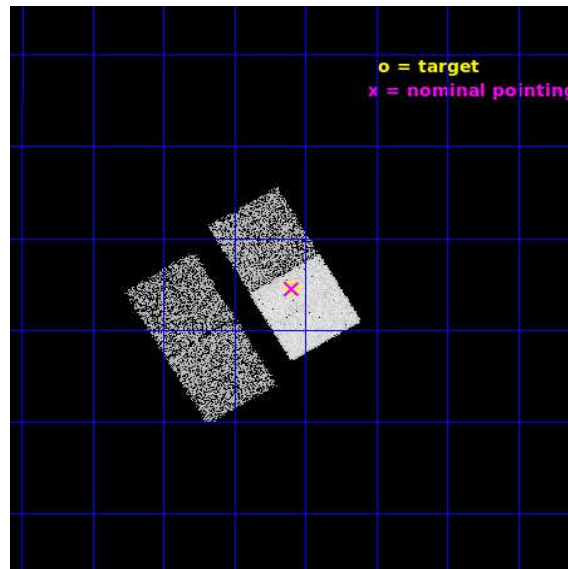
L2 Processing Date : Oct 24 2020

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1 Front

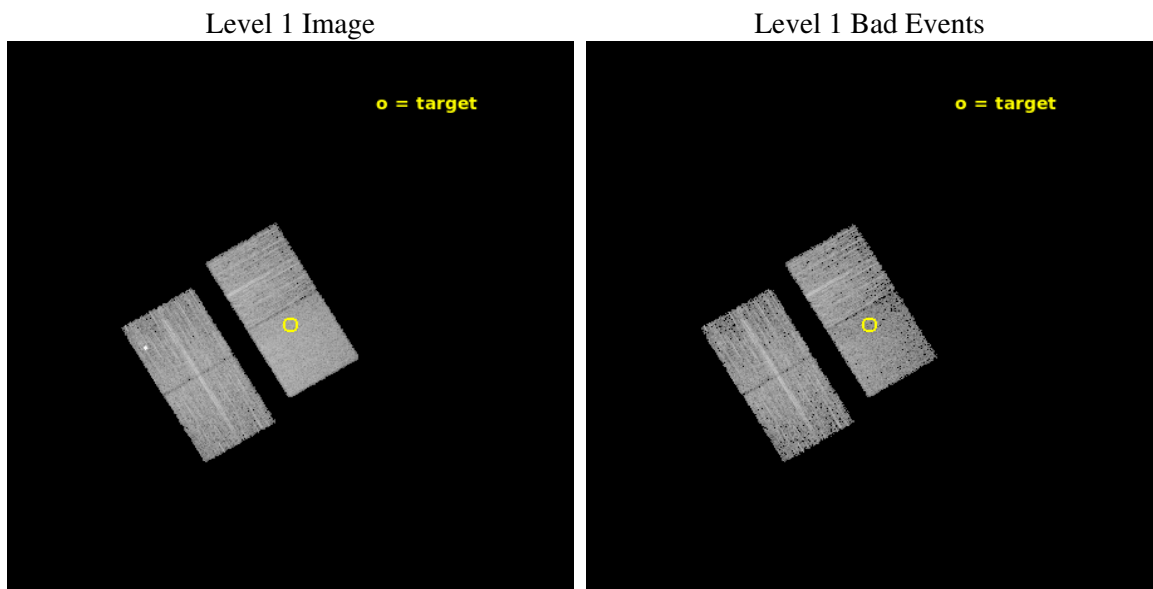
seq_num	703587	Sequence number
obs_id	20484	Observation id
title	Young Radio Sources at High Redshift	Proposal title
observer	Aneta Siemiginowska	Principal investigator
object	SDSS J161105.64+084435.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.773333	Observer's specified target RA [deg]
dec_targ	8.743194	Observer's specified target Dec [deg]
ra_nom	242.77387499966	Nominal RA [deg]
dec_nom	8.7418836742783	Nominal Dec [deg]
roll_nom	59.128224945525	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6065.5863243341	Sum of GTIs [s]
liveltime	5986.334973587	Livetime [s]
ontime2	6065.4632043839	Sum of GTIs [s]
ontime3	6065.5042443275	Sum of GTIs [s]
ontime6	6065.5452843904	Sum of GTIs [s]
ontime7	6065.5863243341	Sum of GTIs [s]
l2events	36246	Number of level 2 events



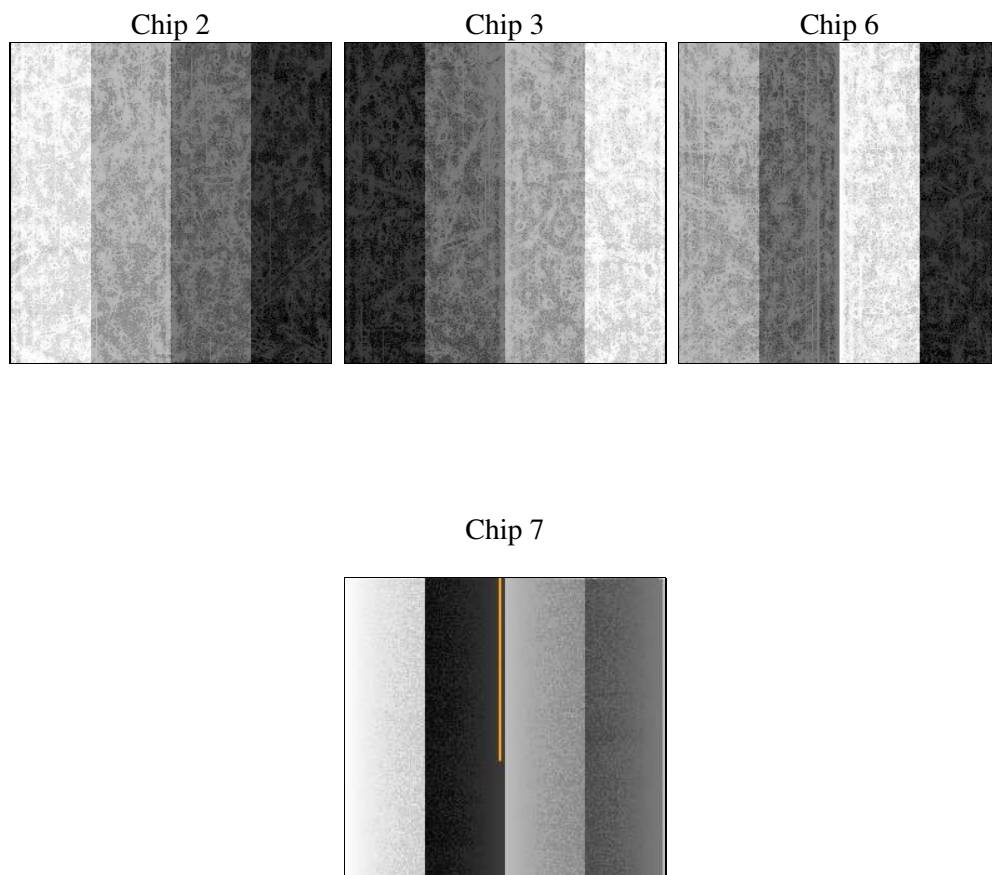
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6065.5863243341	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	6065.4632043839	Sum of GTIs [s]
date	2020-10-24T07:03:58	Date and time of file creation	ontime3	6065.5042443275	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6065.5452843904	Sum of GTIs [s]
			ontime7	6065.5863243341	Sum of GTIs [s]
			l1events	197581	Number of level 1 events

2.1.4 Events

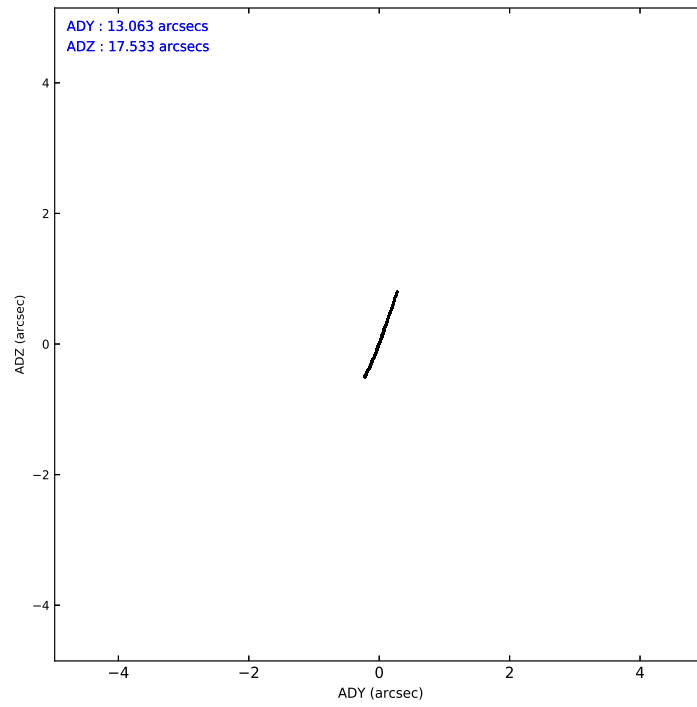
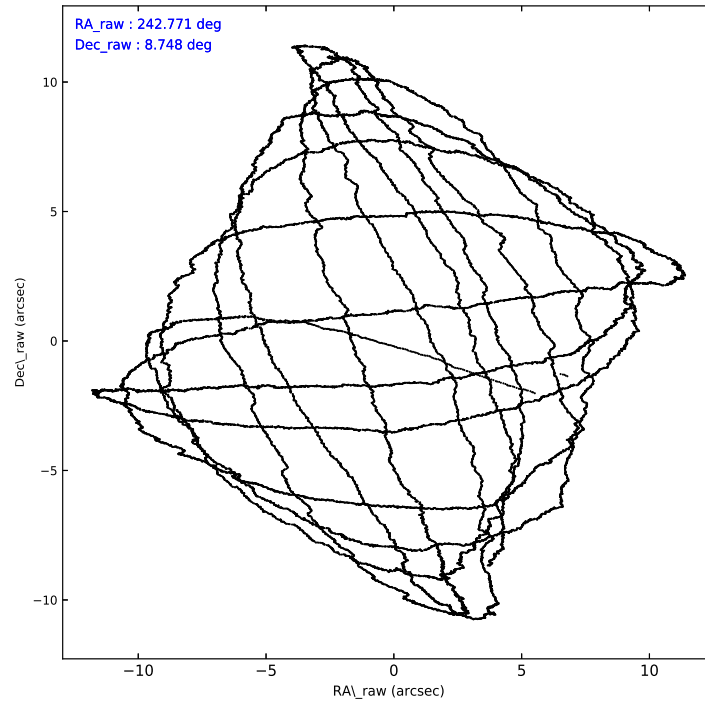
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	47852	44852	47523	57354
rejected events	41518	40350	42385	32663
rejected %	86%	89%	89%	56%

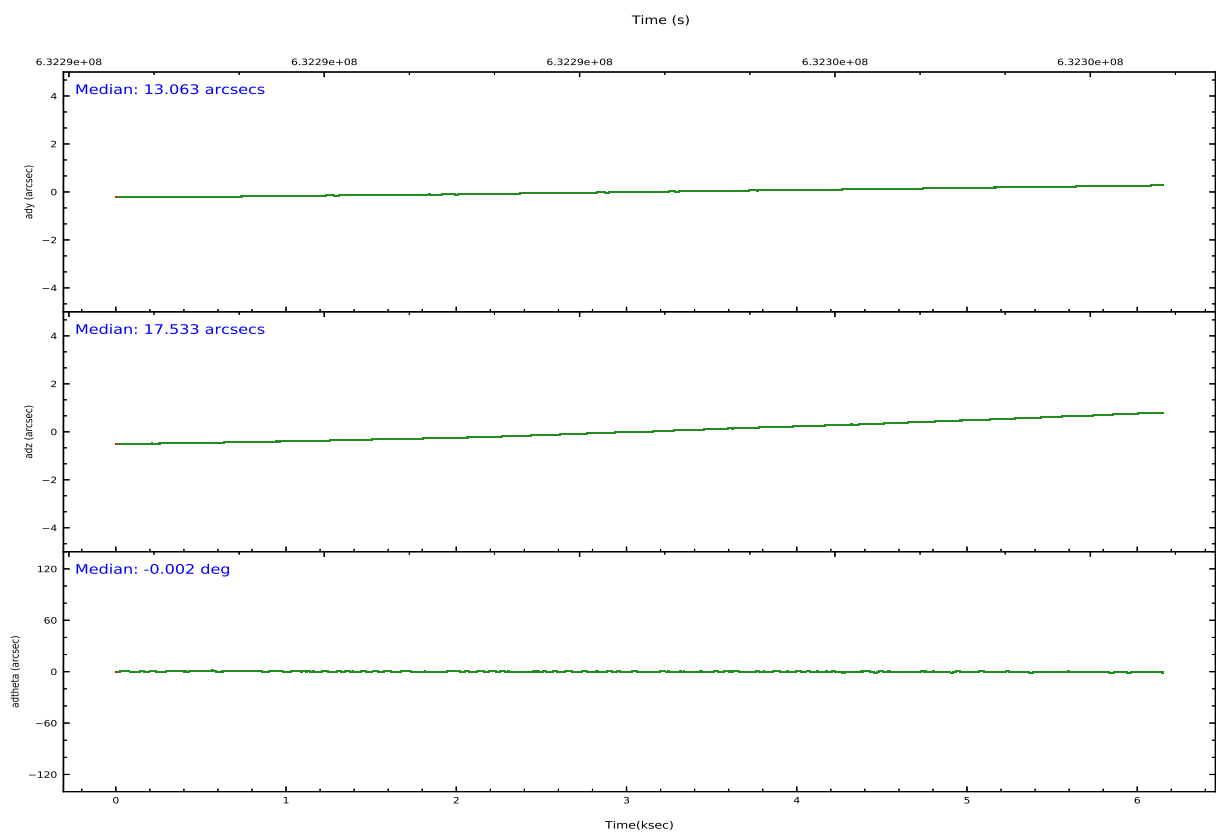
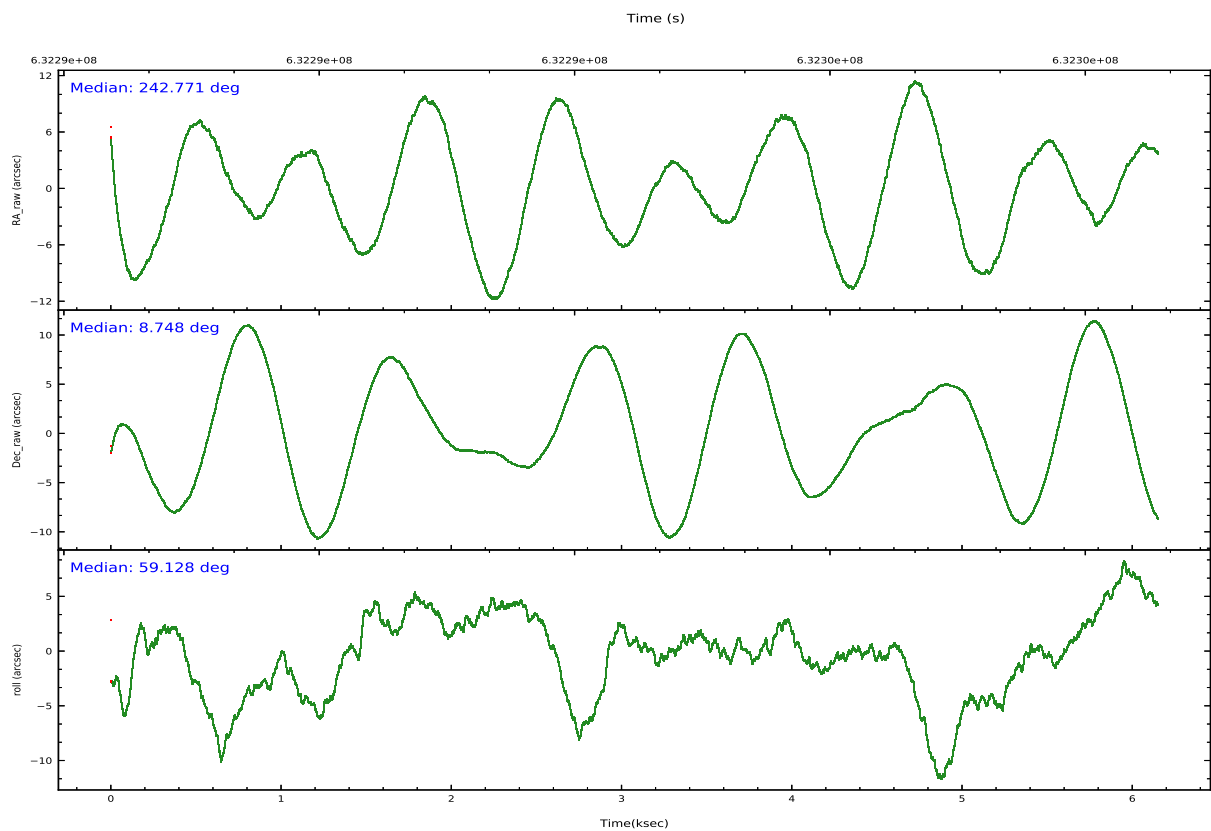
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3472	1595	1525	2080
	7%	3%	3%	3%
grade 1 events	34	20	23	69
	0%	0%	0%	0%
grade 2 events	1044	969	1356	5089
	2%	2%	2%	8%
grade 3 events	452	463	469	1971
	0%	1%	0%	3%
grade 4 events	477	467	481	1957
	0%	1%	1%	3%
grade 5 events	1636	1944	1910	5740
	3%	4%	4%	10%
grade 6 events	896	1015	1309	13625
	1%	2%	2%	23%
grade 7 events	39841	38379	40450	26823
	83%	85%	85%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	242.771408	242.77387499966	CCD I2 on	O1	Y
[deg] Pointing Dec	8.720358	8.7418836742783	CCD I3 on	O3	Y
[deg] Pointing Roll	58.970545	59.128224945525	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	632291927.184000	632290772.33153	CCD S5 on	N	N
Observation start date	2018-01-14T04:37:38	2018-01-14T04:19:32	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	632297927.184000	632299147.60702	On-chip summing requested	N	N
Observation end date	2018-01-14T06:17:38	2018-01-14T06:39:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



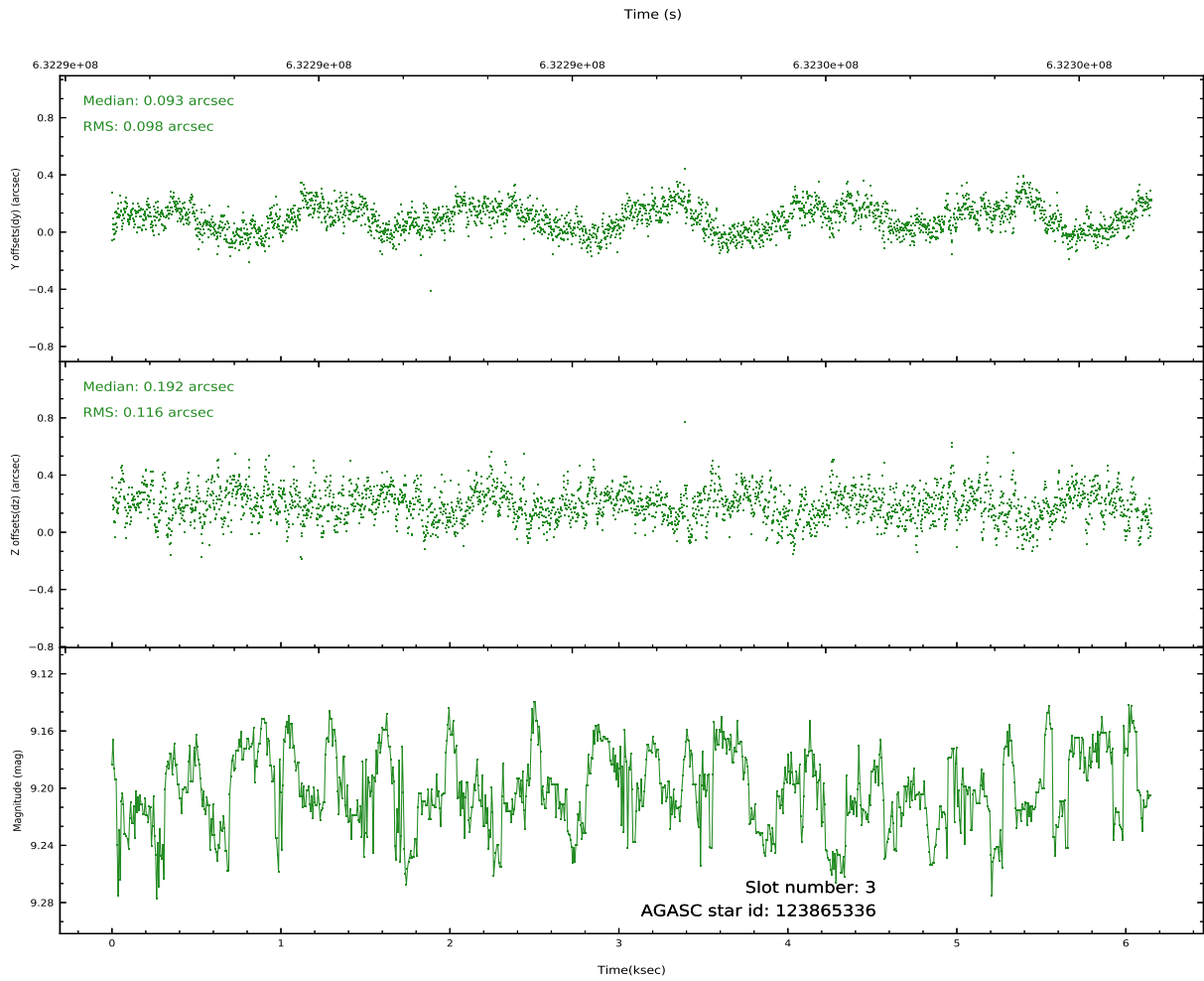
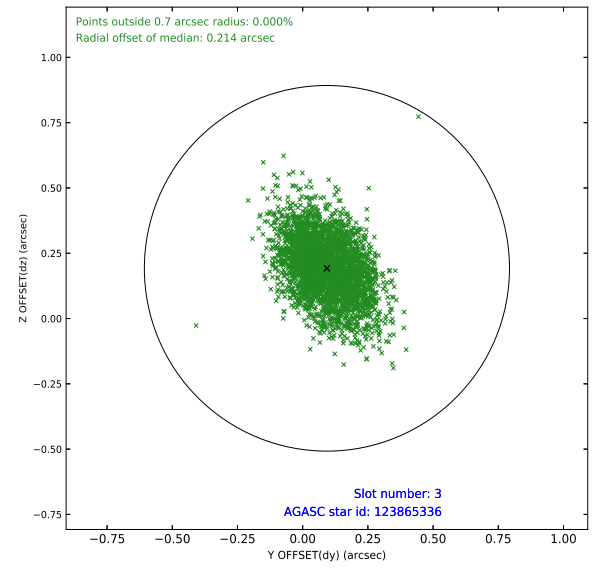
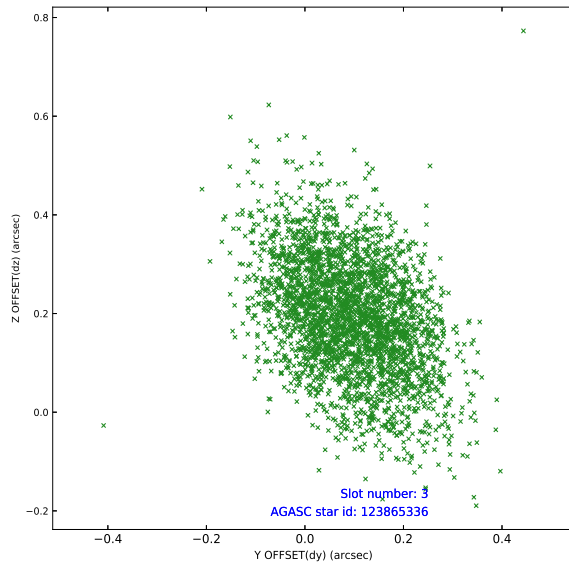


Slot Statistics

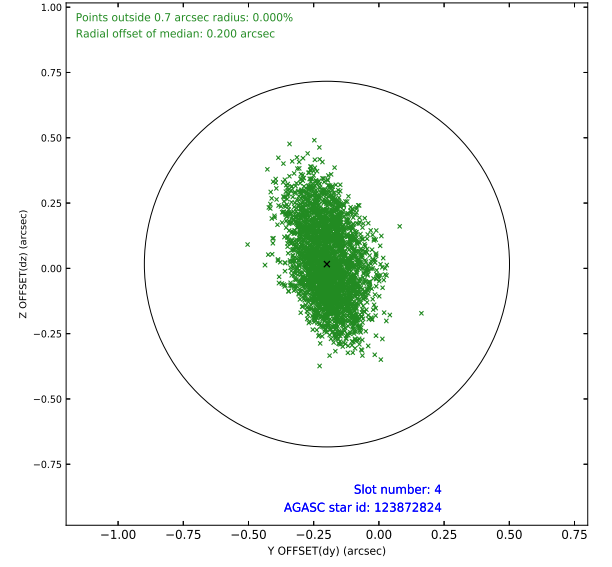
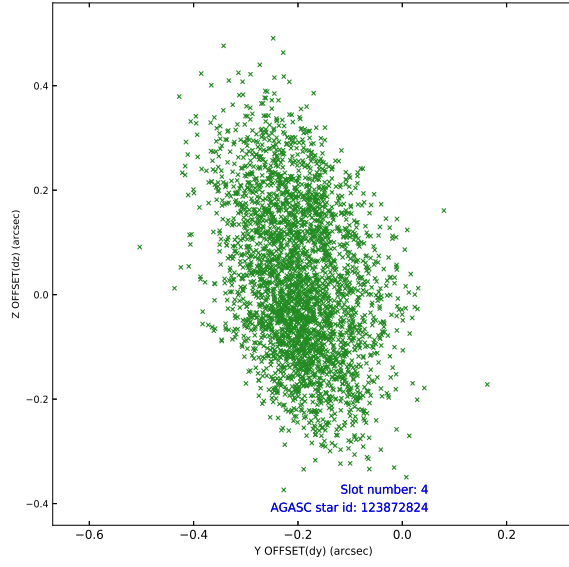
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.21	1501	1.000	0.283	-0.156	0.020	0.030	0.000000	0.000000	930.23	-1734
1	FID		ACIS-S-5	7.23	1501	1.000	-0.266	0.223	0.011	0.017	0.000000	0.000000	-1818.67	162
2	FID		ACIS-S-6	7.37	1501	1.000	-0.038	-0.055	0.025	0.035	0.000000	0.000000	394.57	806
3	GUIDE	used	123865336	9.20	3000	1.000	0.093	0.192	0.160	0.267	242.950420	8.689956	234.13	-602
4	GUIDE	used	123872824	8.26	3002	1.000	-0.199	0.016	0.176	0.294	243.057428	9.140849	1821.78	-89
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	123874416	9.53	2997	1.000	0.164	-0.165	0.168	0.309	242.243790	8.714888	-983.52	1599
7	GUIDE	used	124394656	9.64	2997	1.000	-0.051	-0.048	0.186	0.307	242.834205	9.400909	2214.27	1072

2.4 Star Slots

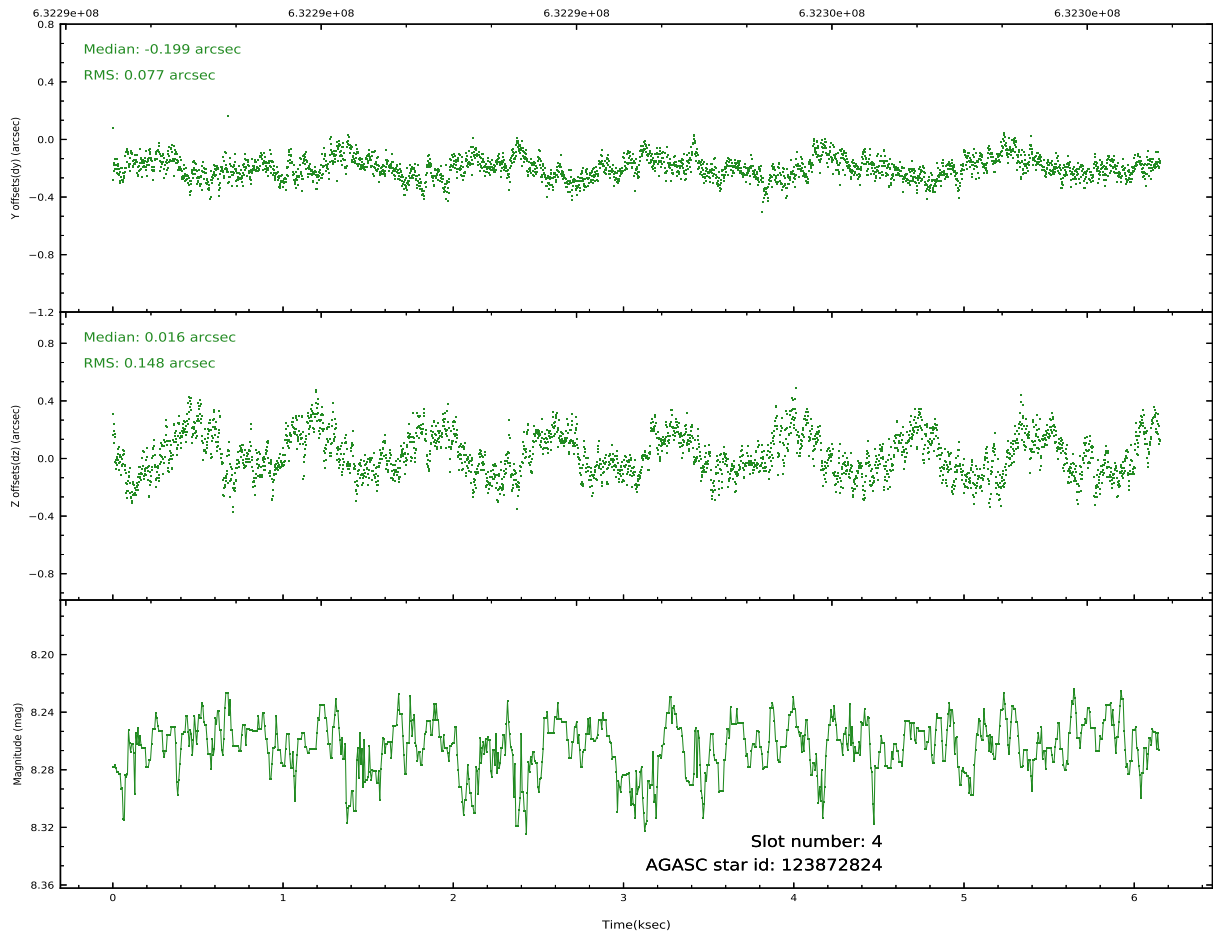
2.4.1 Slot 3



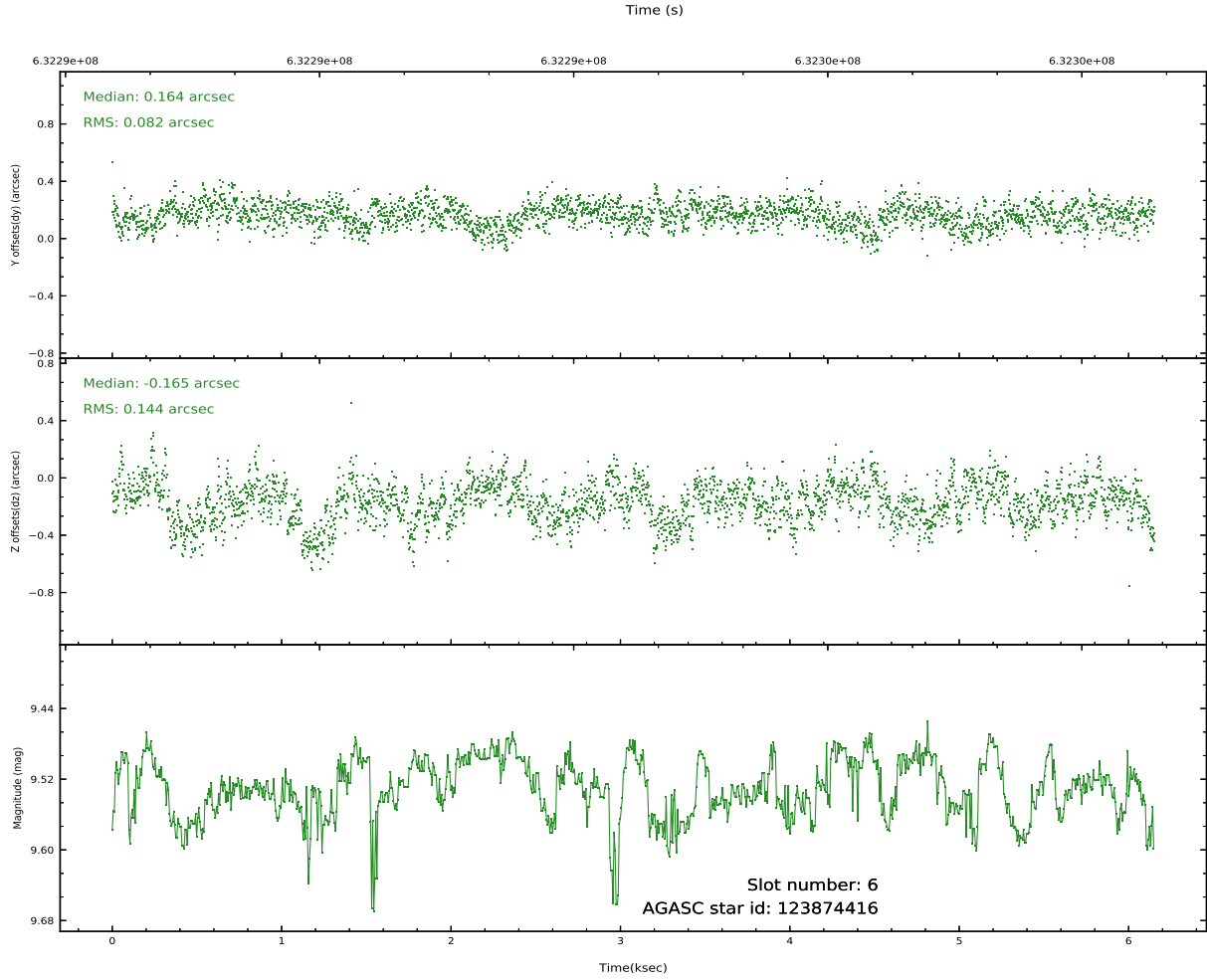
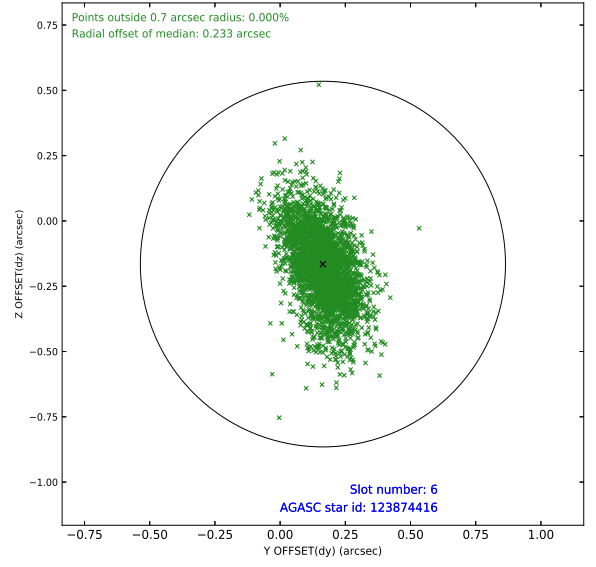
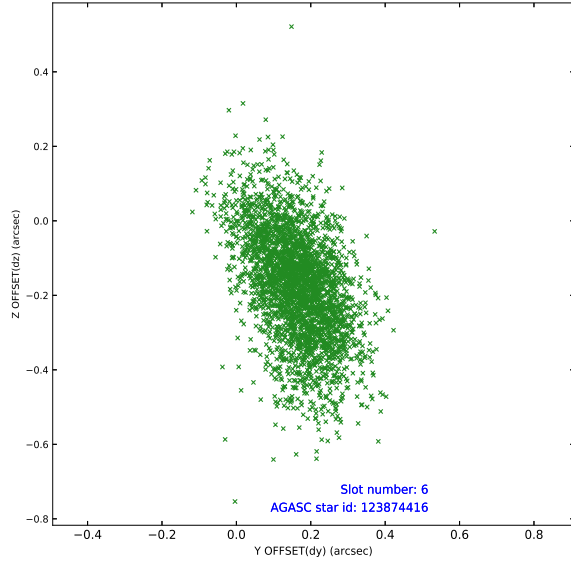
2.4.2 Slot 4



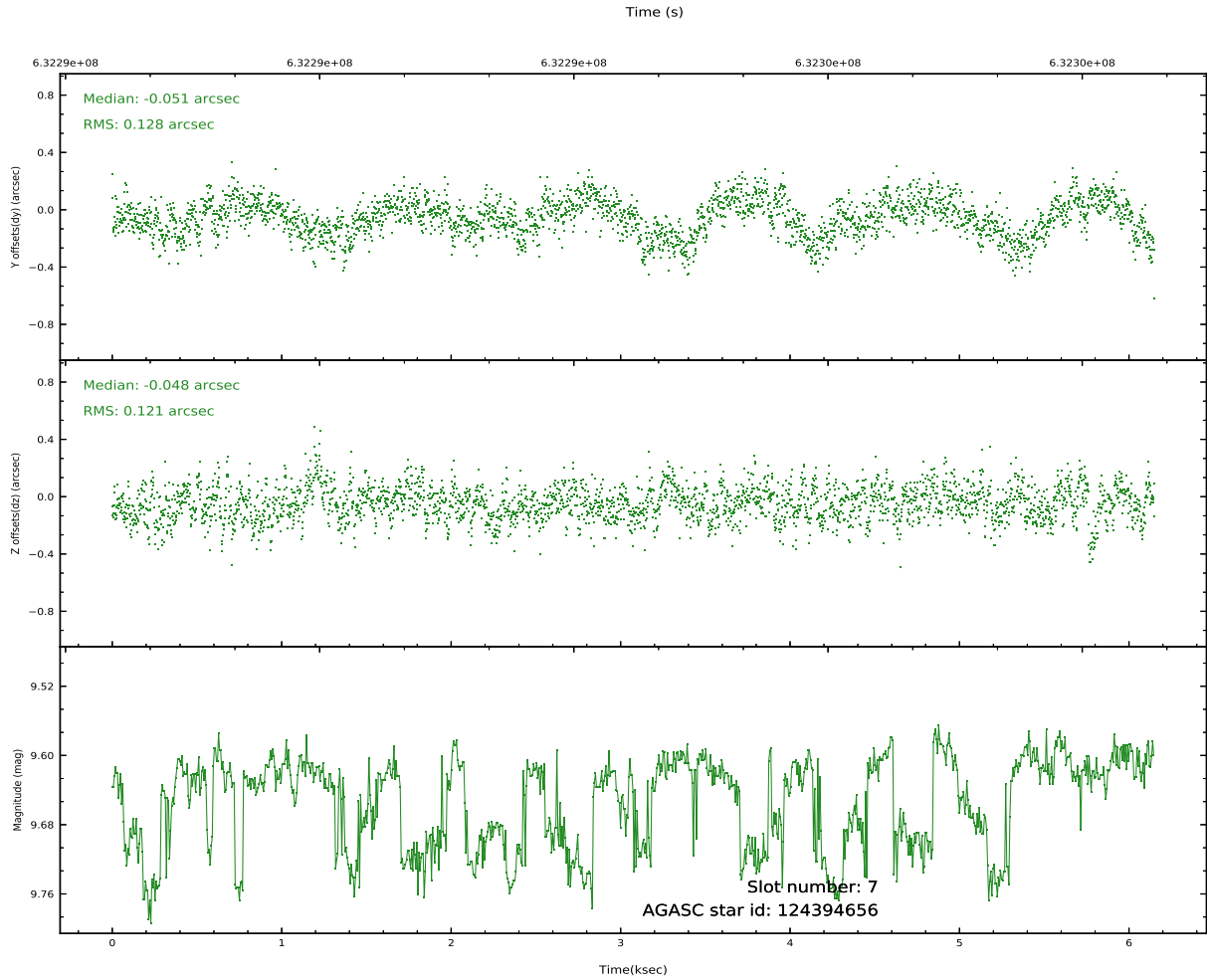
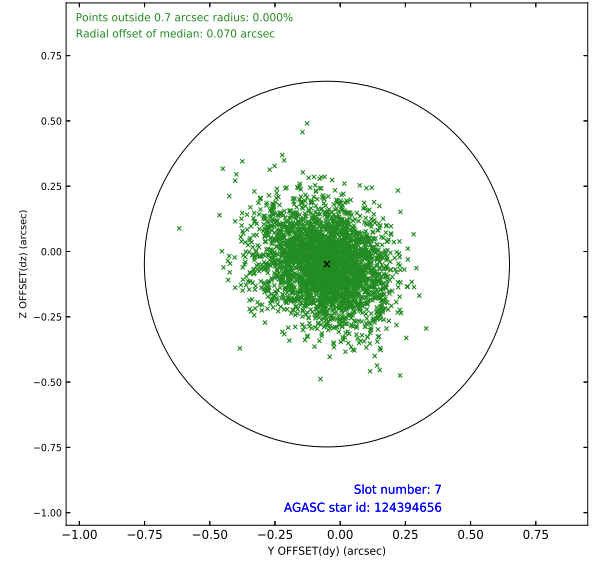
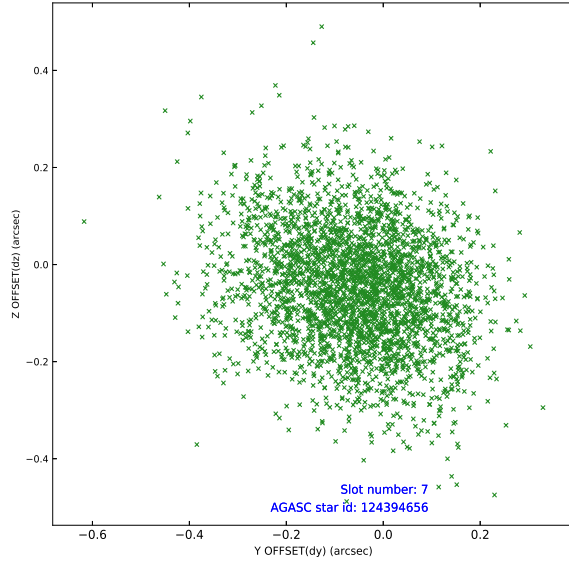
Time (s)



2.4.3 Slot 6

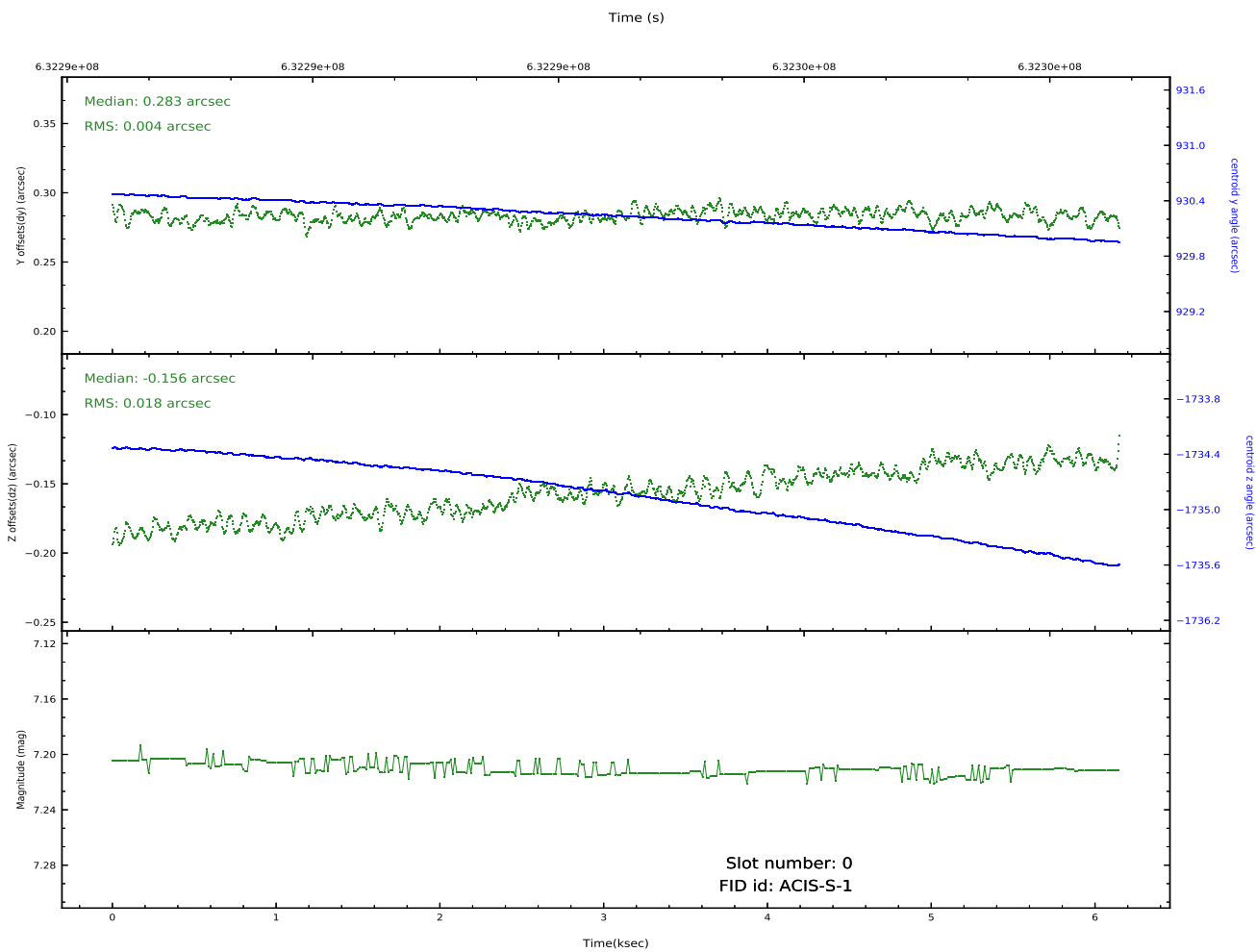
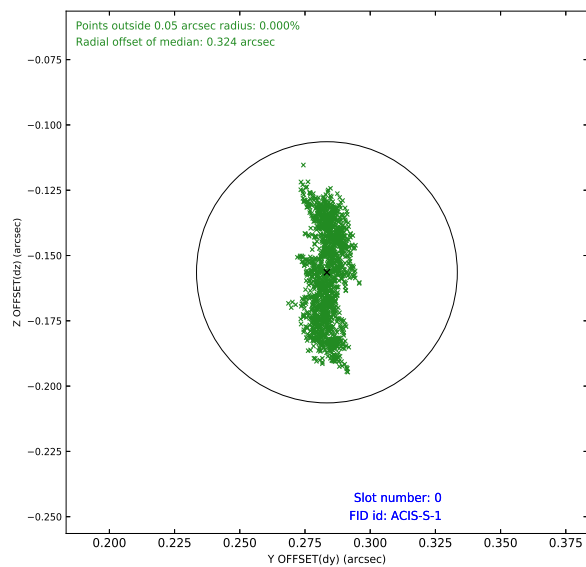
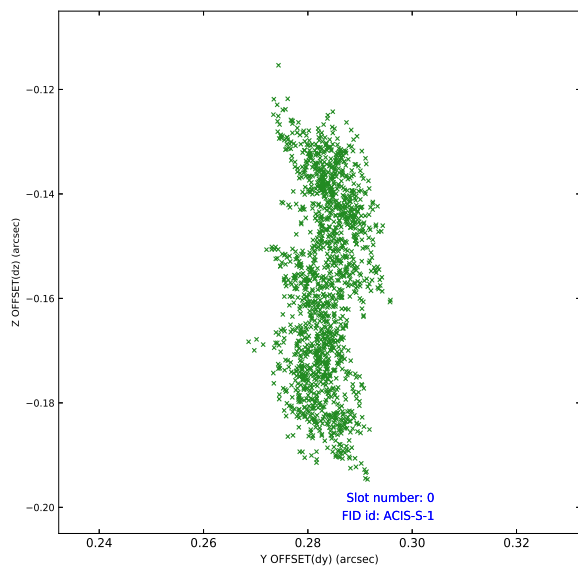


2.4.4 Slot 7

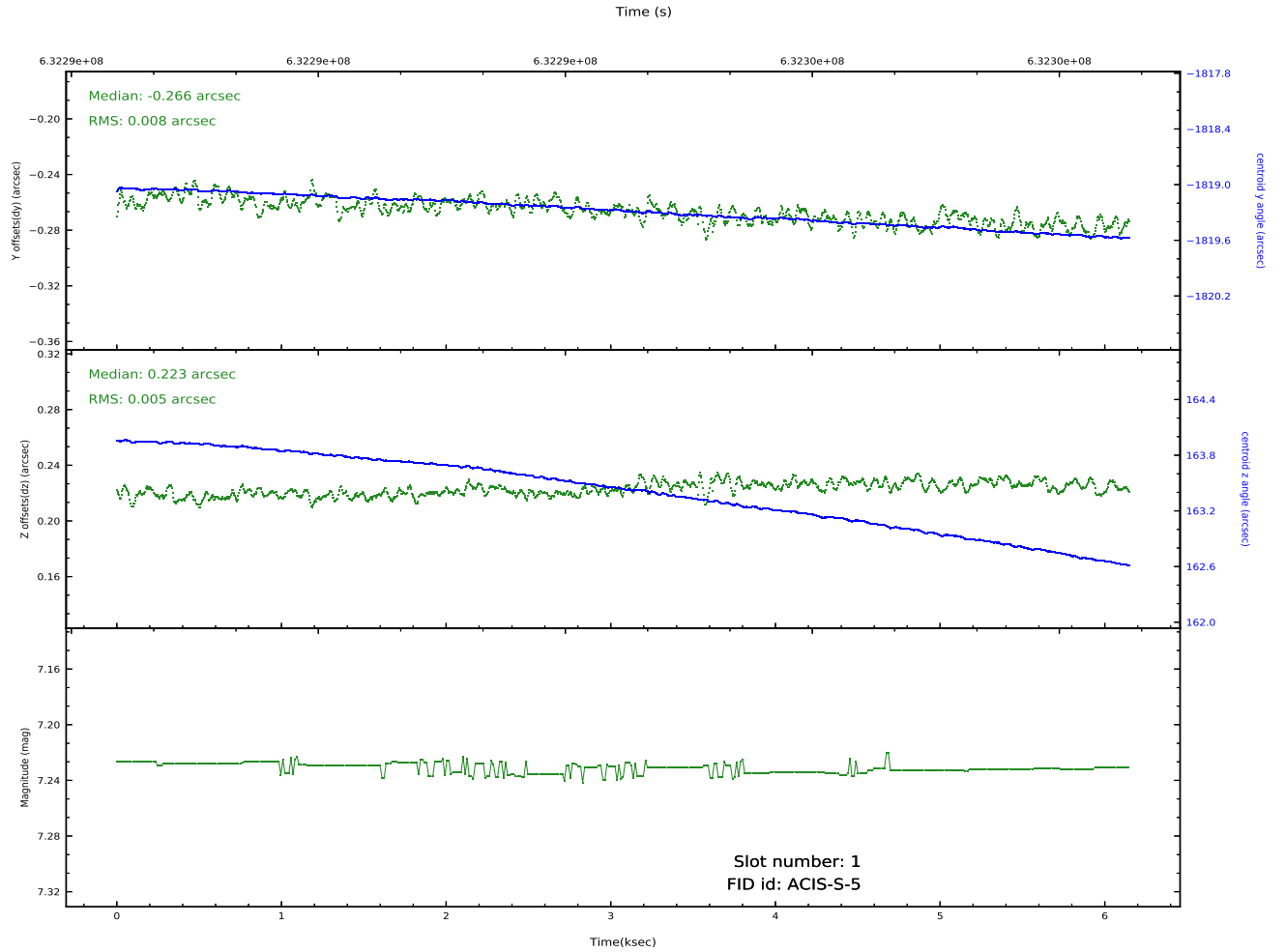
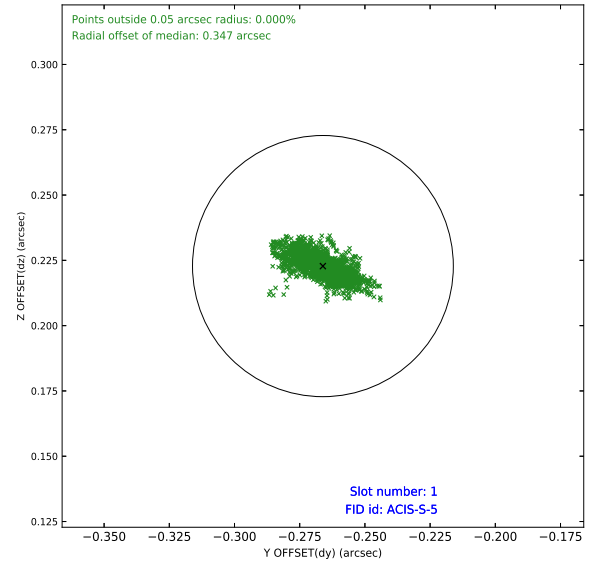
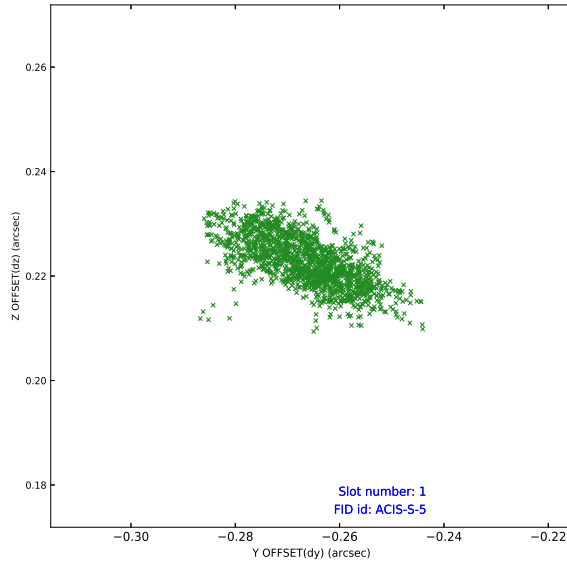


2.5 FID Slots

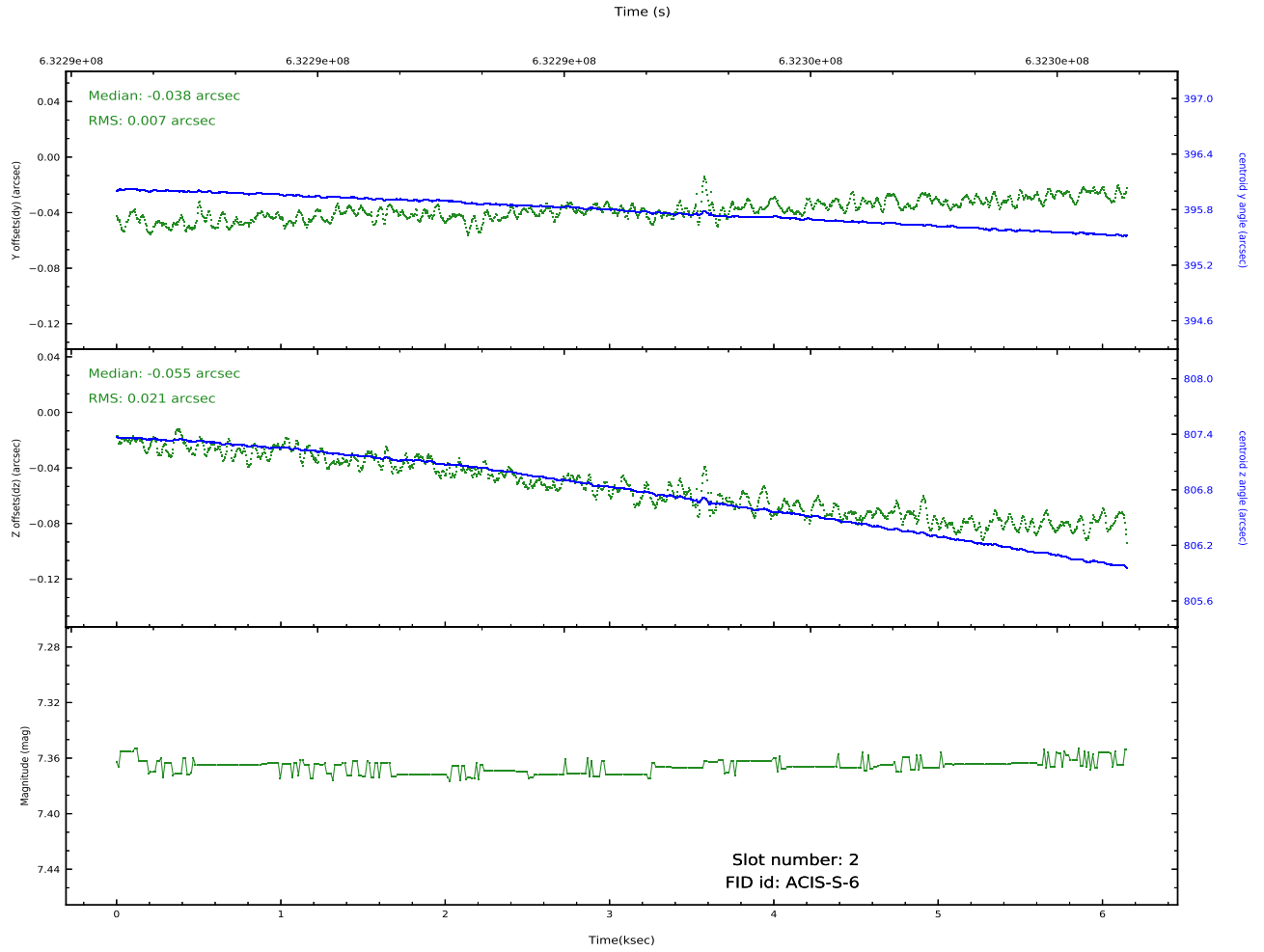
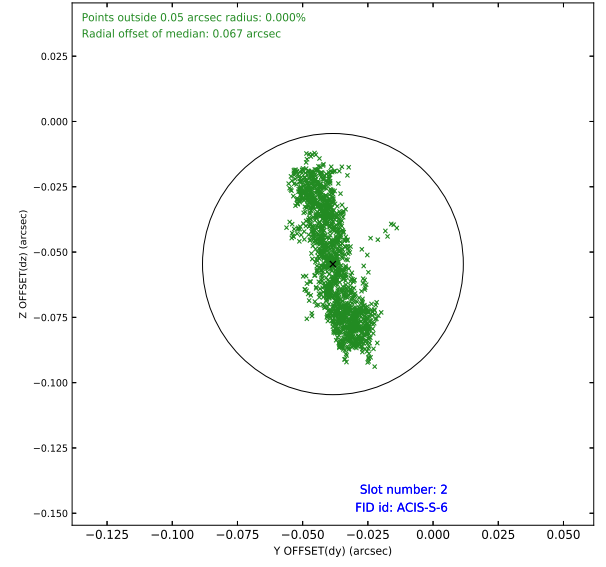
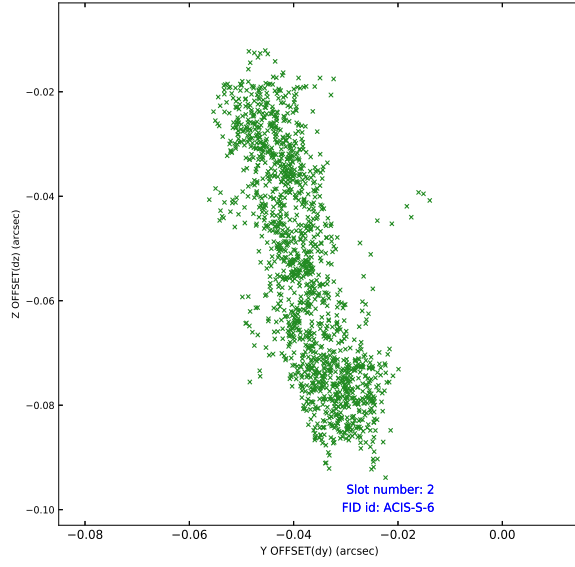
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0655863199234

A.2 Comments

The guide star in slot 5 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.