

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18939 - L2 Version 1
Chandra X-Ray Center

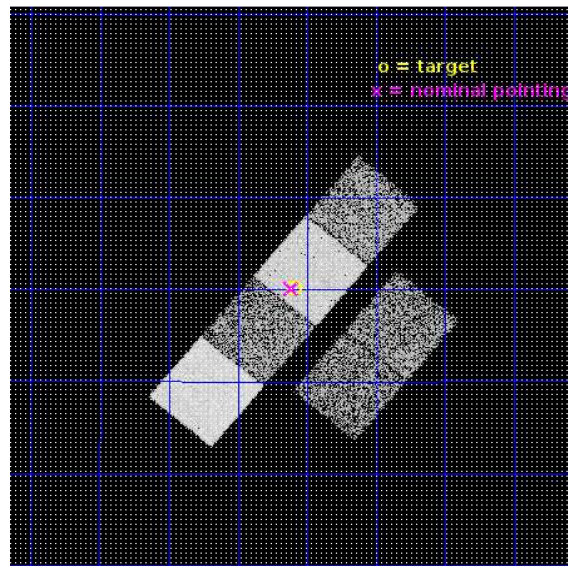
L2 Processing Date : Dec 16 2016

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1 Front

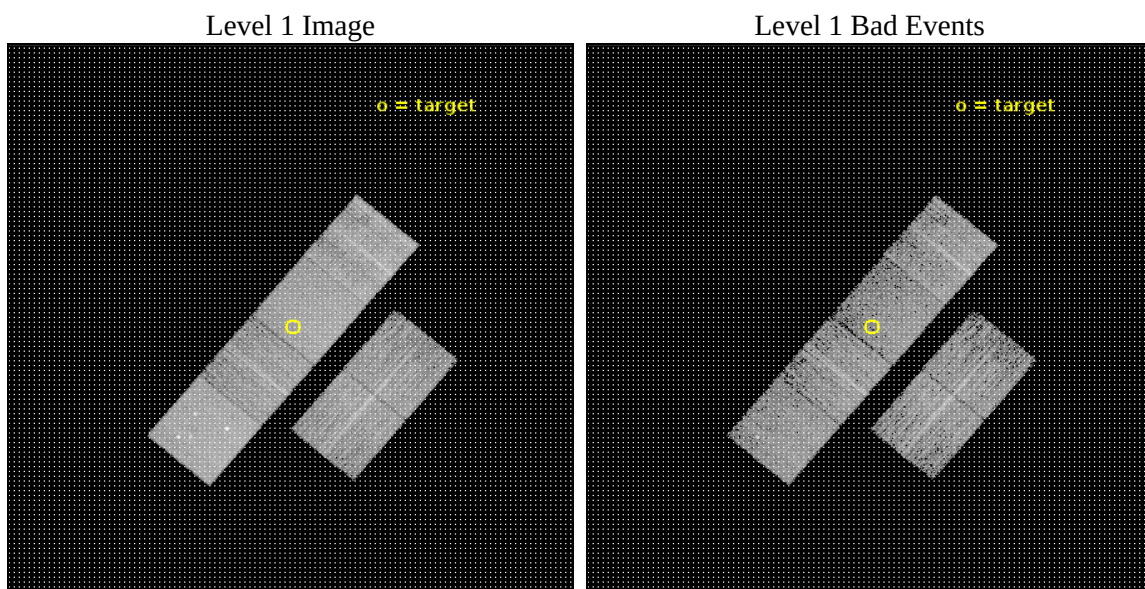
seq_num	201132	Sequence number
obs_id	18939	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J20403364+1529572	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	310.146667	Observer's specified target RA [deg]
dec_targ	15.502333	Observer's specified target Dec [deg]
ra_nom	310.1533149723	Nominal RA [deg]
dec_nom	15.501796588798	Nominal Dec [deg]
roll_nom	309.83741528781	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5955.2000887394	Sum of GTIs [s]
livetime	5879.7917594248	Livetime [s]
ontime2	5955.2000887394	Sum of GTIs [s]
ontime3	5955.2000887394	Sum of GTIs [s]
ontime5	5955.2000887394	Sum of GTIs [s]
ontime6	5955.2000887394	Sum of GTIs [s]
ontime7	5955.2000887394	Sum of GTIs [s]
ontime8	5955.2000887394	Sum of GTIs [s]
l2events	70652	Number of level 2 events



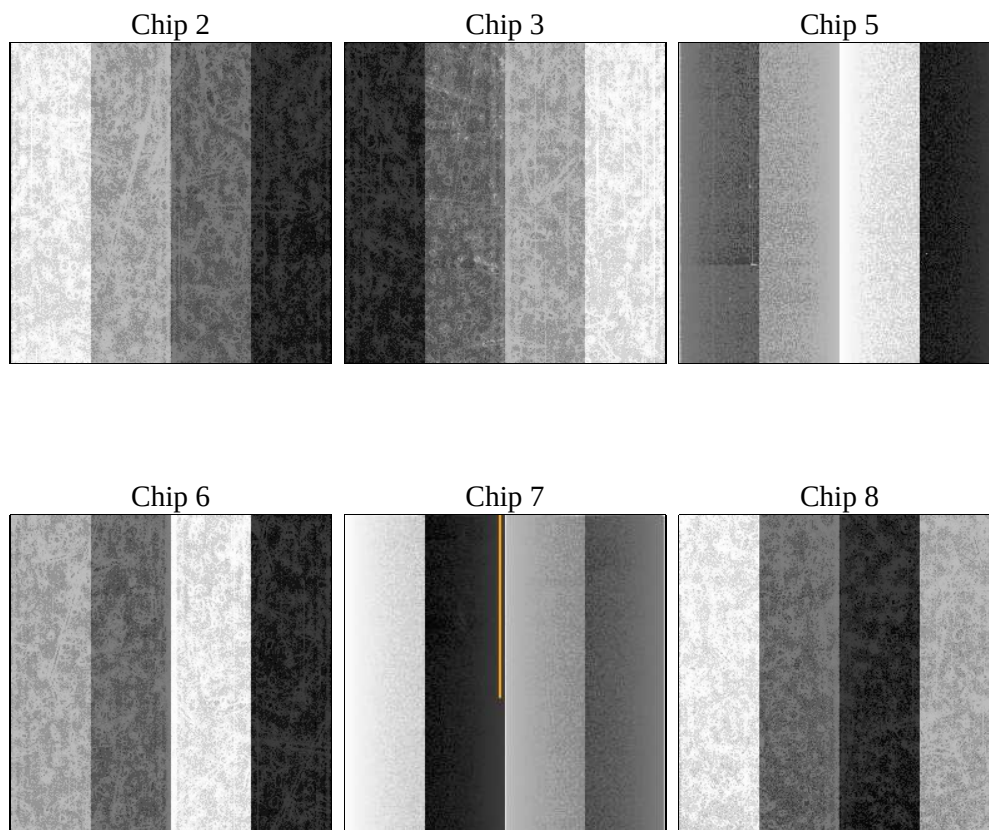
2 OBI

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	10.5.2	Processing system revision	ontime	5955.2000887394	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	5955.2000887394	Sum of GTIs [s]
date	2016-12-16T17:43:30	Date and time of file creation	ontime3	5955.2000887394	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	5955.2000887394	Sum of GTIs [s]
			ontime6	5955.2000887394	Sum of GTIs [s]
			ontime7	5955.2000887394	Sum of GTIs [s]
			ontime8	5955.2000887394	Sum of GTIs [s]
			l1events	303984	Number of level 1 events

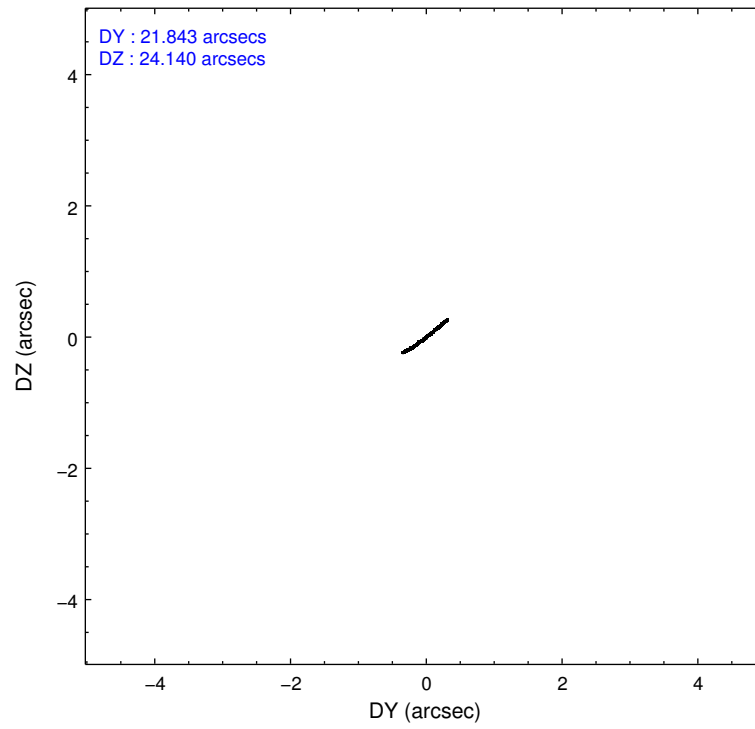
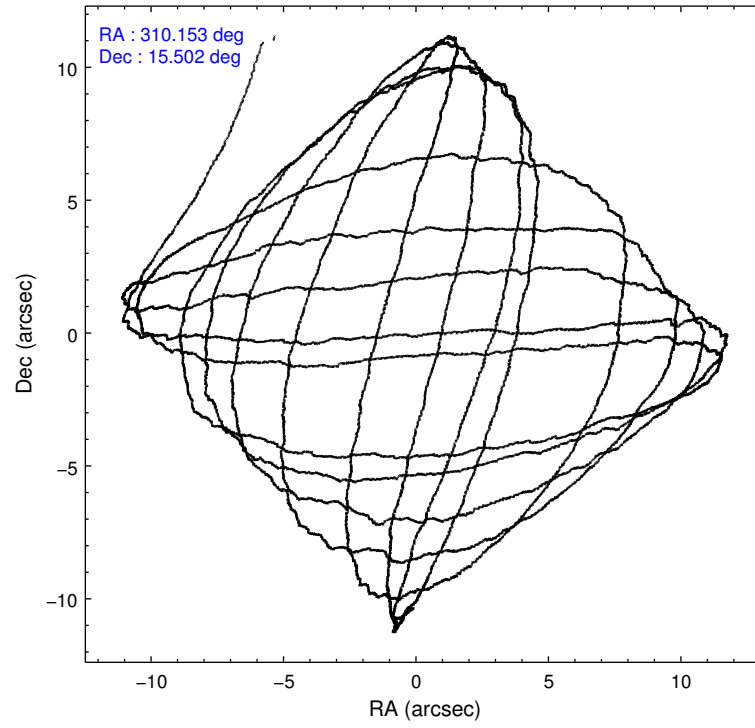
2.1.4 Events

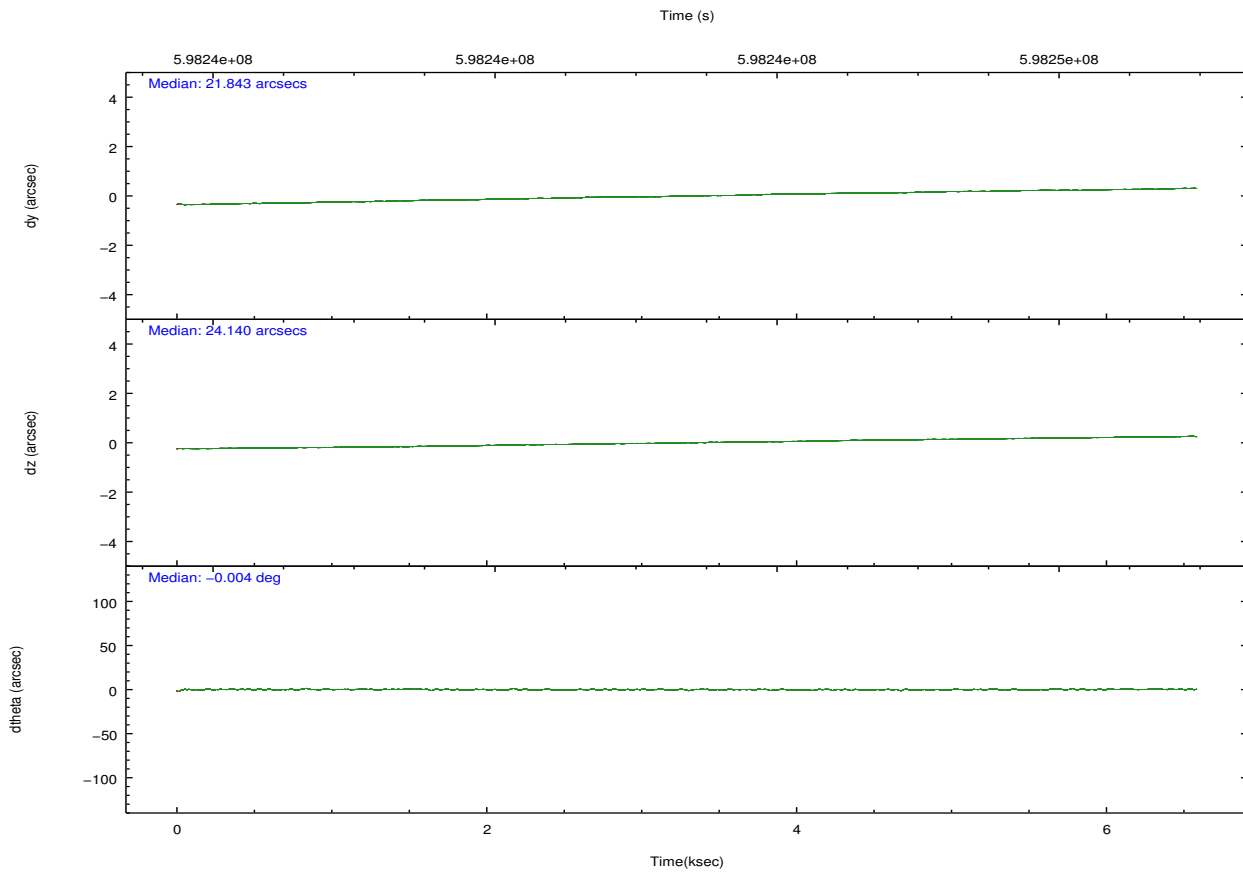
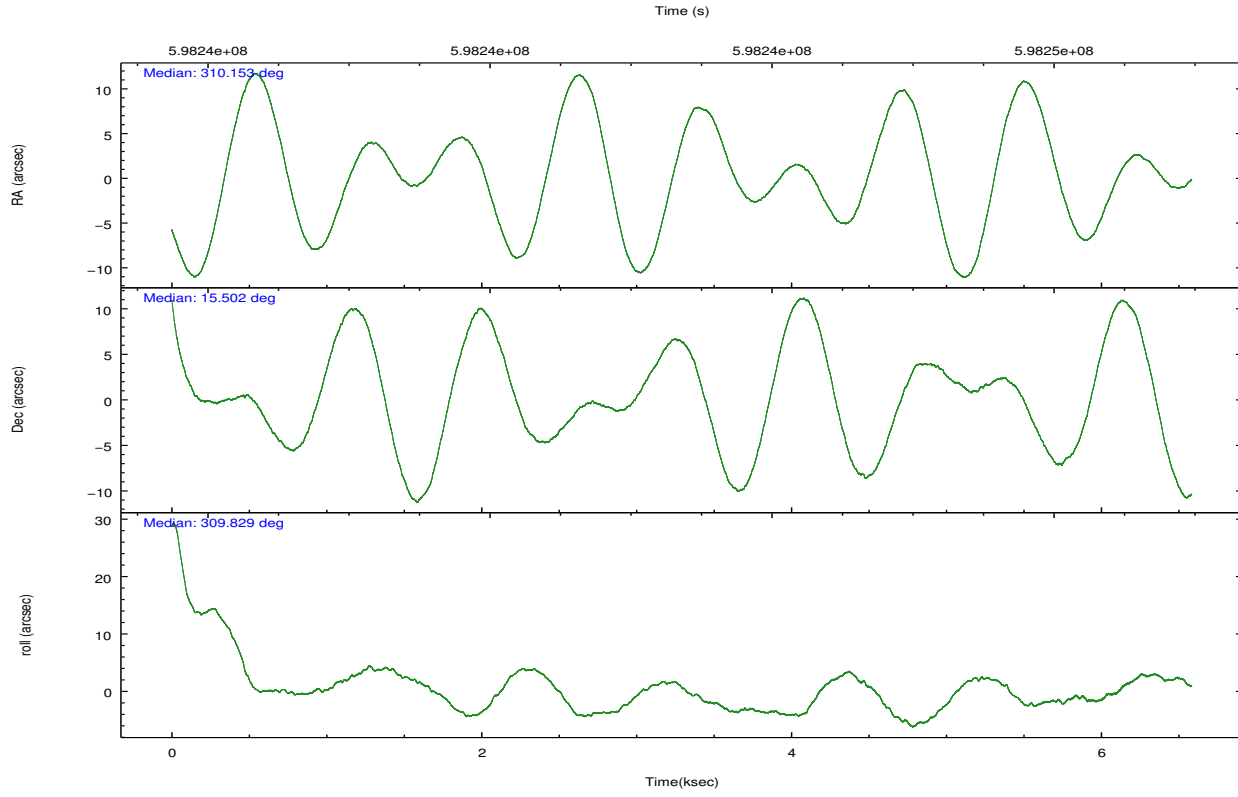
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43827	39002	68100	42792	53649	56614	grade 0 events	1569	1636	4198	1733	1920	4554
rejected events	39186	34637	33964	37859	29965	40722		3%	4%	6%	4%	3%	8%
rejected %	89%	88%	49%	88%	55%	71%	grade 1 events	17	31	159	20	78	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	1209	881	10582	1137	5009	3822
								2%	2%	15%	2%	9%	6%
							grade 3 events	453	450	1010	494	1917	1658
								1%	1%	1%	1%	3%	2%
							grade 4 events	462	439	1002	457	1909	1542
								1%	1%	1%	1%	3%	2%
							grade 5 events	1710	1861	4868	1961	5364	2926
								3%	4%	7%	4%	9%	5%
							grade 6 events	949	964	17367	1117	12937	4351
								2%	2%	25%	2%	24%	7%
							grade 7 events	37458	32740	28914	35873	24515	37724
								85%	83%	42%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	310.126515	310.1533149723048	CCD I2 on	O1	Y
[deg] Pointing Dec	15.510916	15.50179658879837	CCD I3 on	O2	Y
[deg] Pointing Roll	309.687939	309.8374152878078	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	598240650.184000	598239493.90878	CCD S5 on	N	N
Observation start date	2016-12-16T01:56:22	2016-12-16T01:38:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	598246650.184000	598247601.65925	On-chip summing requested	N	N
Observation end date	2016-12-16T03:36:22	2016-12-16T03:53:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



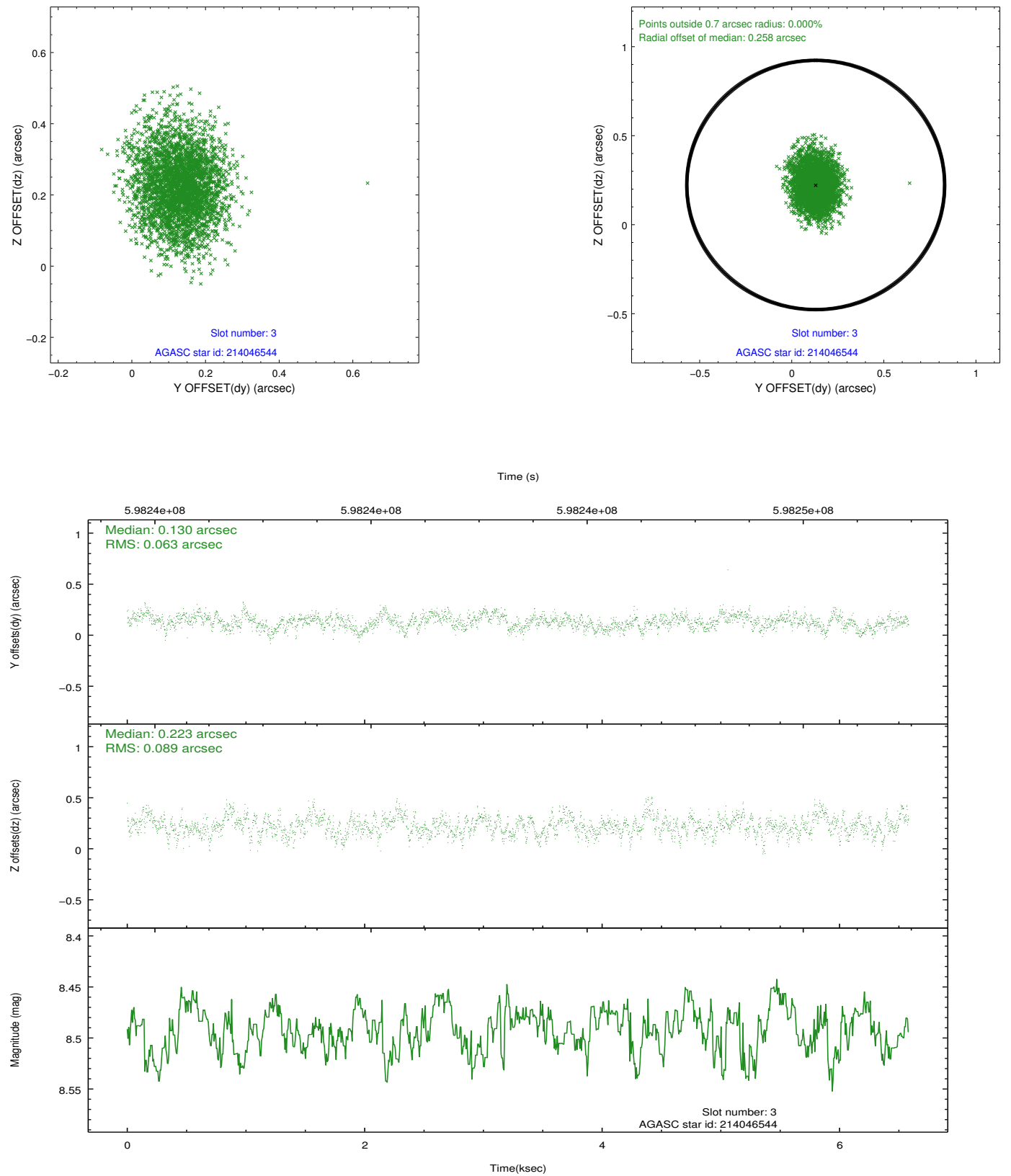


Slot Statistics

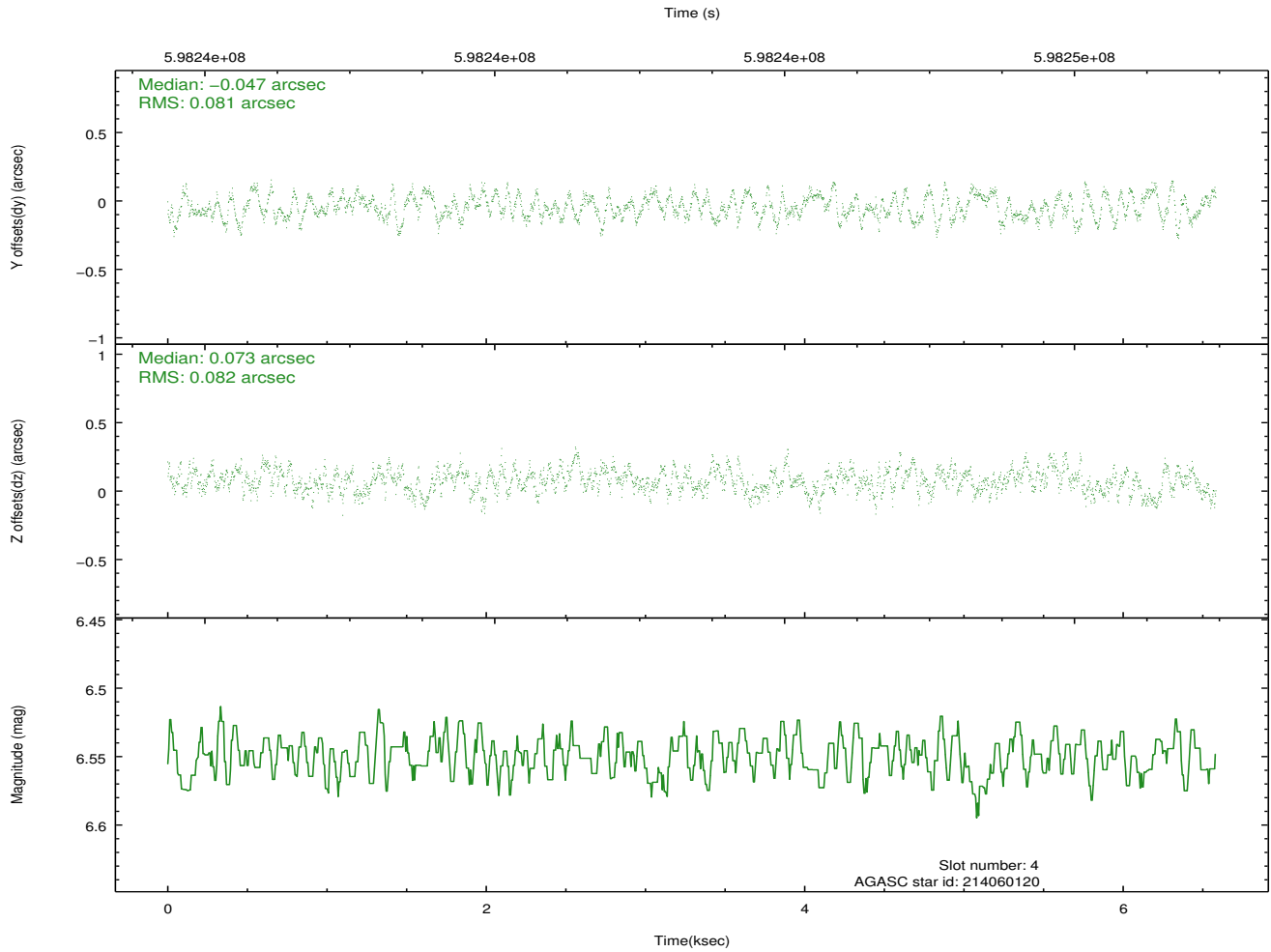
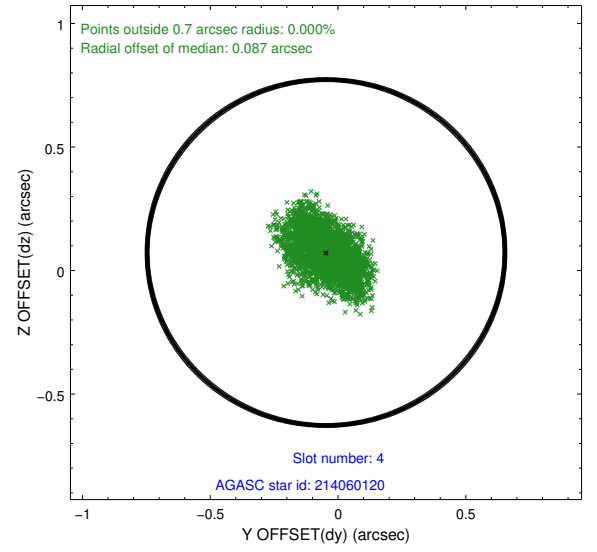
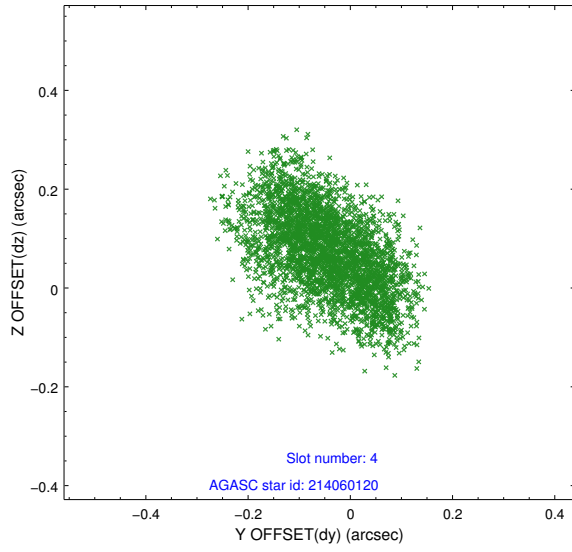
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.05	1606	0.155	0.073	0.012	0.019	0.000000	0.000000	921.15	-1741.29
1	FID		ACIS-S-2	6.98	1606	-0.239	-0.122	0.007	0.011	0.000000	0.000000	-774.66	-1746.92
2	FID		ACIS-S-6	7.22	1606	0.062	0.053	0.009	0.017	0.000000	0.000000	386.38	799.11
3	GUIDE	used	214046544	8.49	3210	0.130	0.223	0.115	0.190	309.794866	15.483495	-658.56	-947.47
4	GUIDE	used	214060120	6.55	3212	-0.047	0.073	0.125	0.197	309.770704	15.838199	-1693.97	-195.38
5	GUIDE	used	214171752	7.73	3212	-0.106	-0.057	0.085	0.141	310.386708	15.385876	922.71	408.19
6	GUIDE	used	214172752	8.34	3210	-0.122	-0.191	0.171	0.269	310.289323	15.424777	600.07	237.22
7	GUIDE	used	144183760	9.23	3208	0.178	-0.055	0.189	0.282	309.913576	14.957011	1062.57	-1842.66

2.4 Star Slots

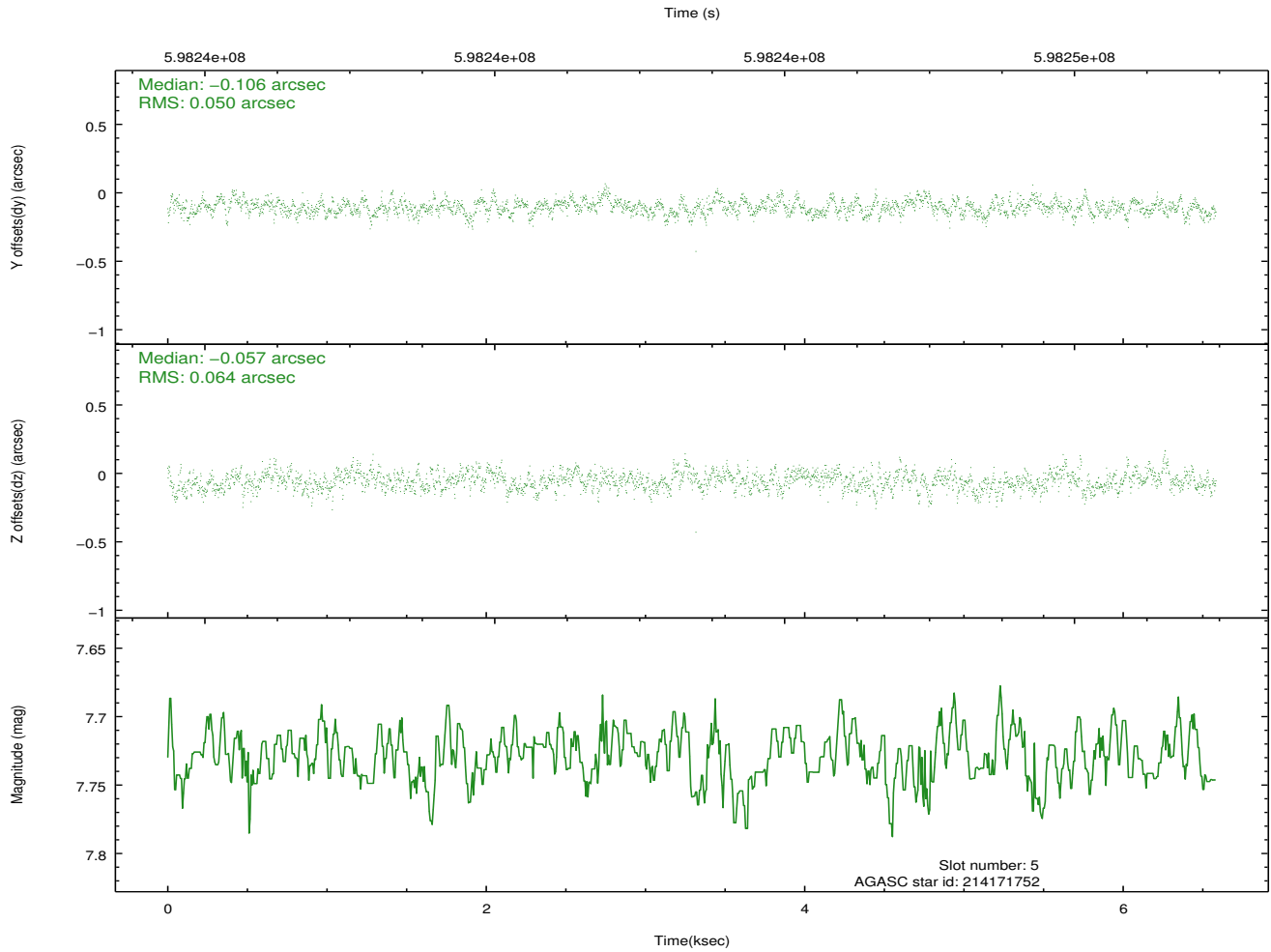
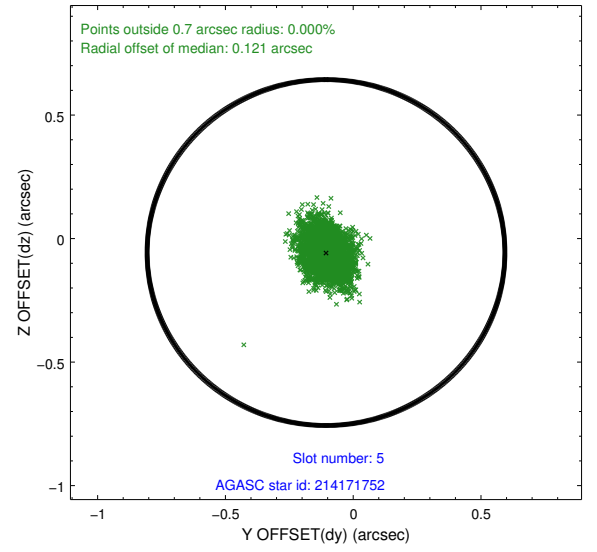
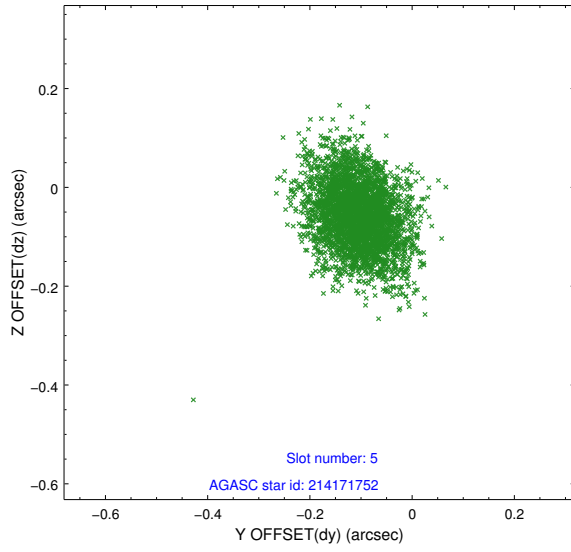
2.4.1 Slot 3



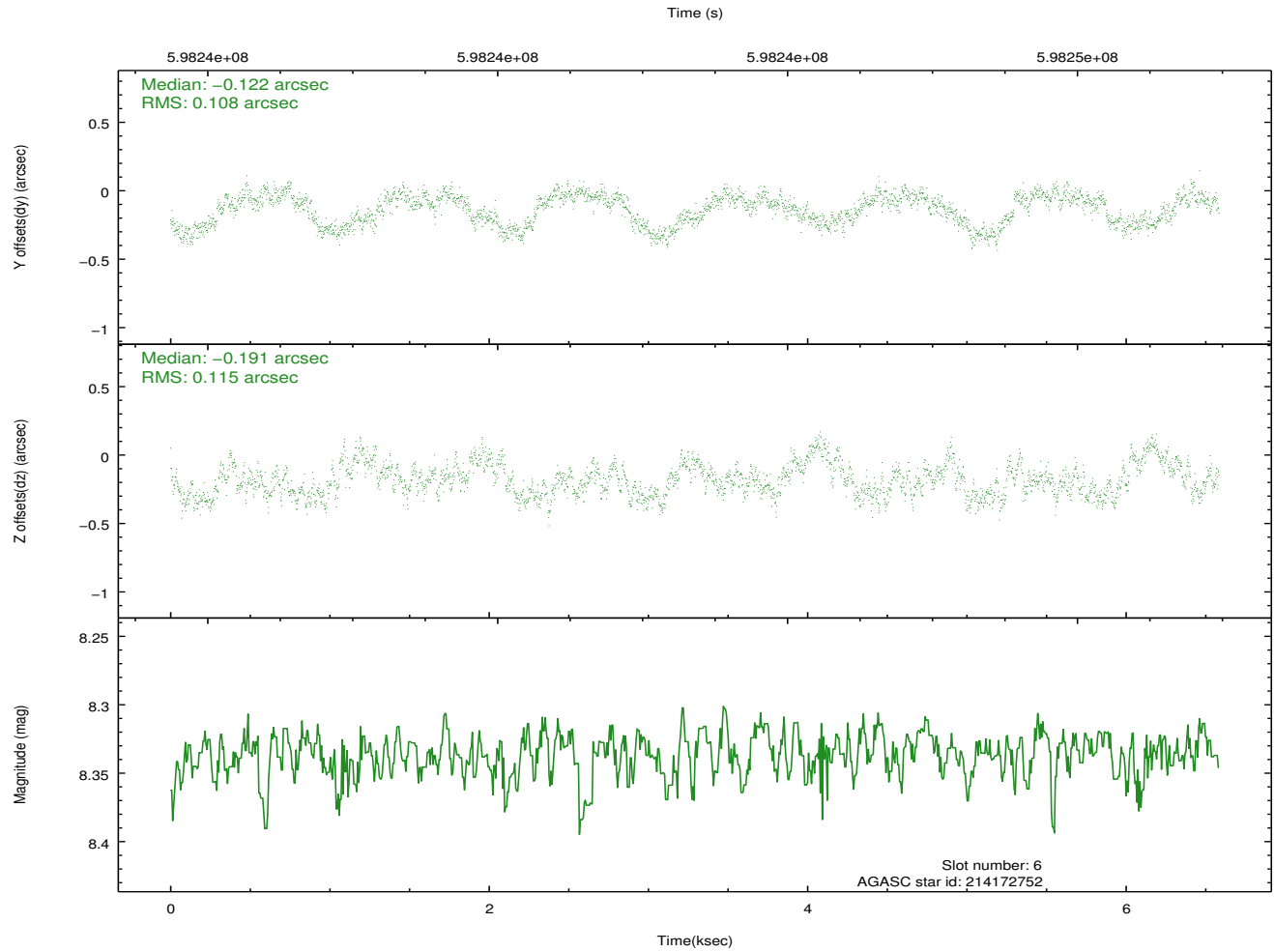
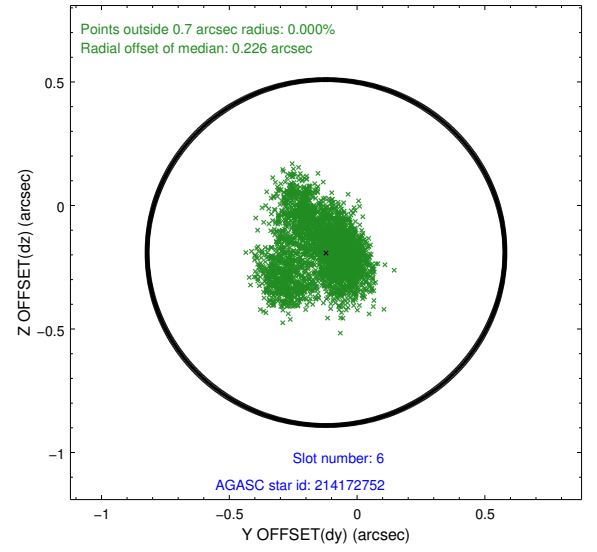
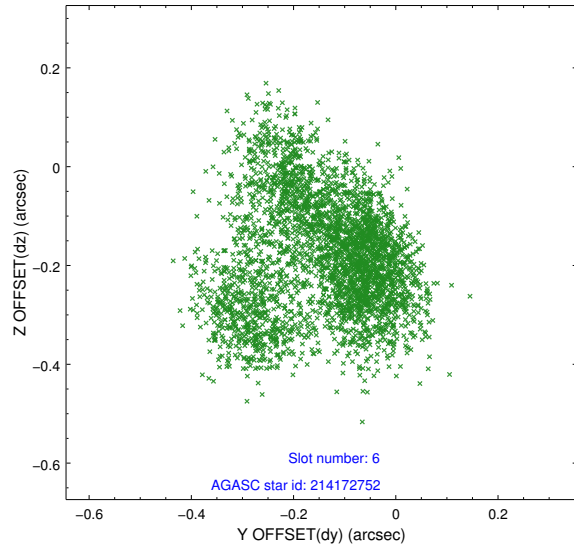
2.4.2 Slot 4



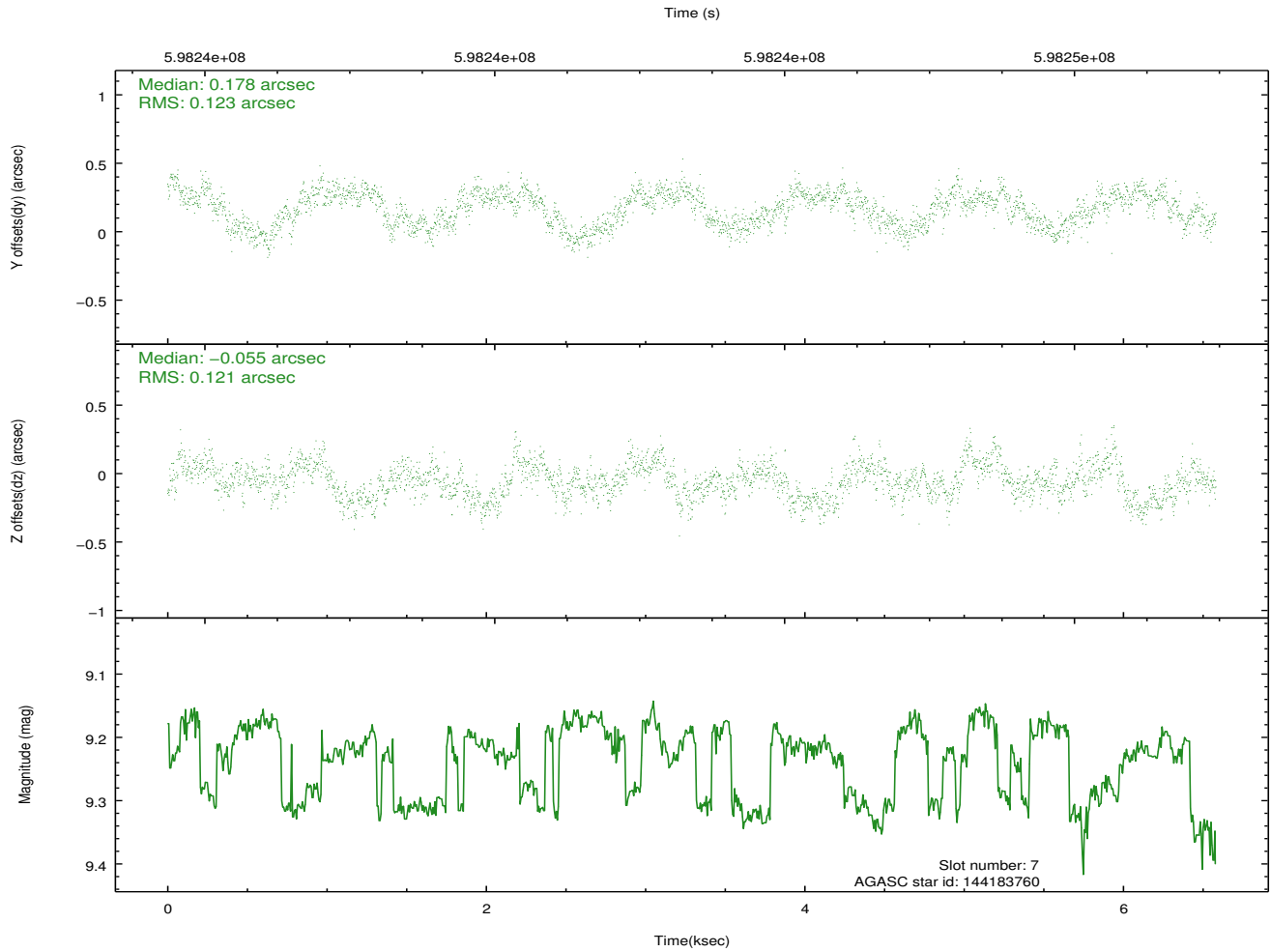
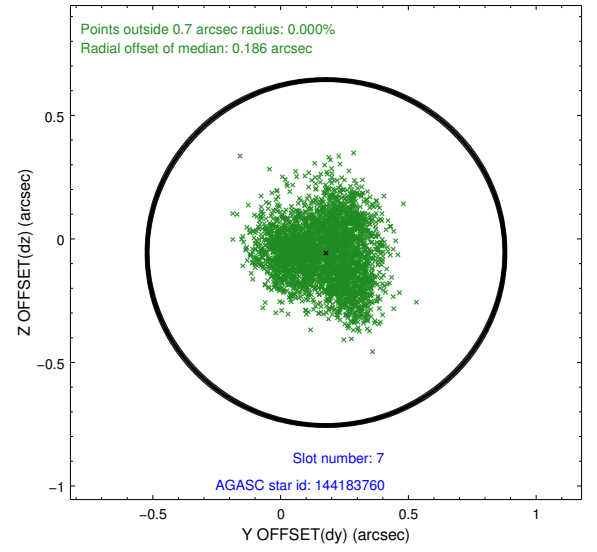
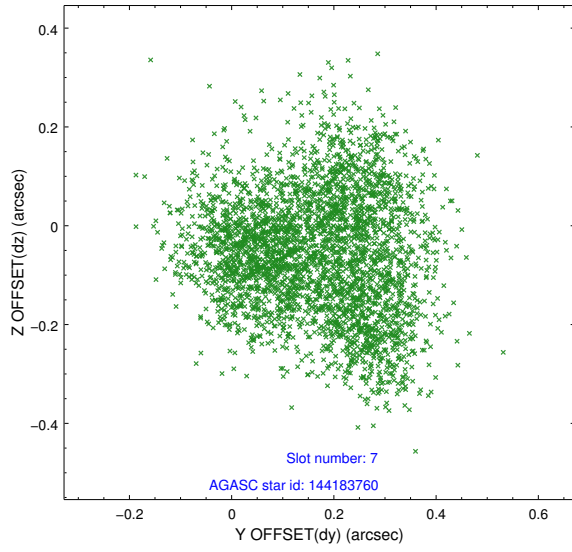
2.4.3 Slot 5



2.4.4 Slot 6

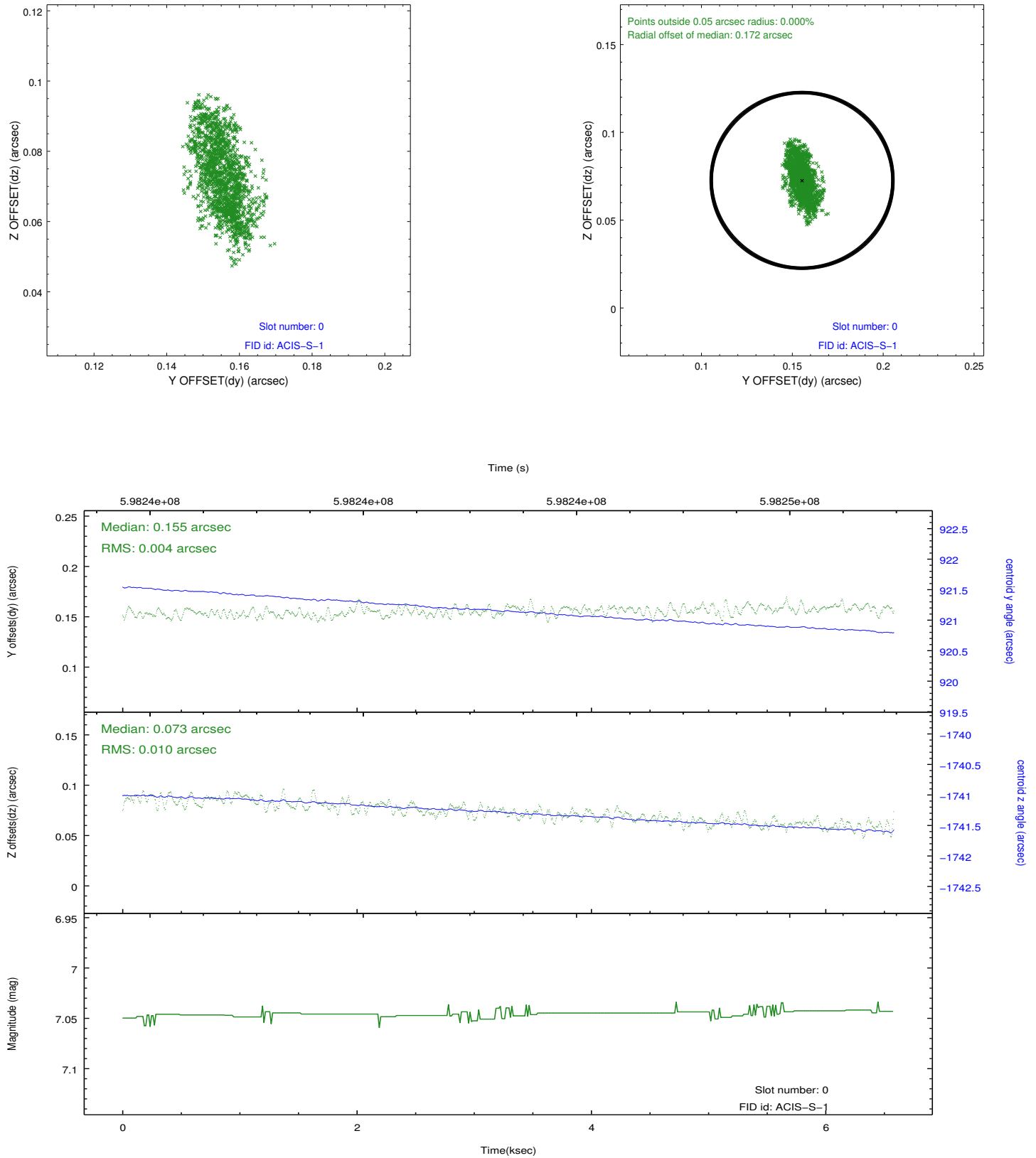


2.4.5 Slot 7

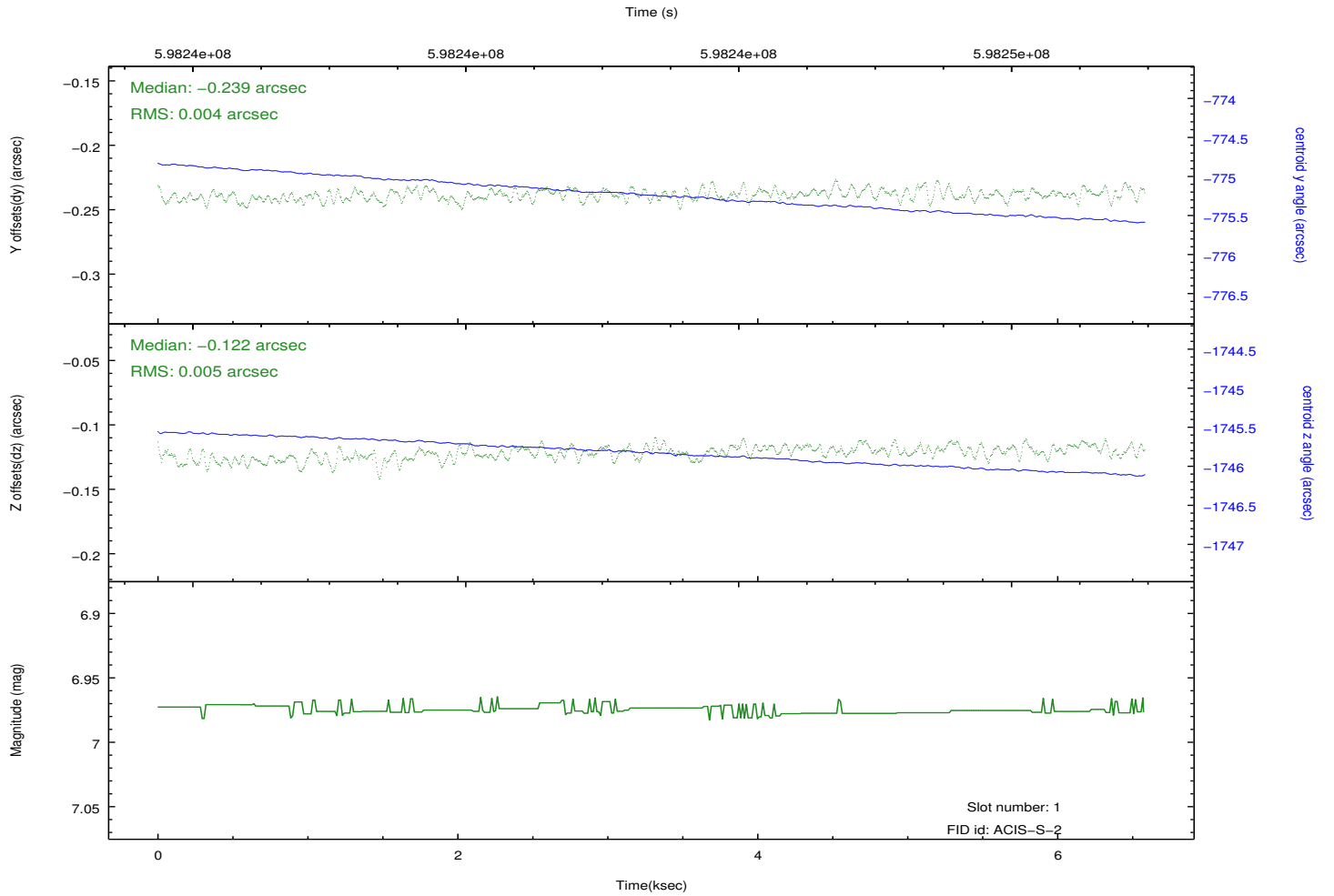
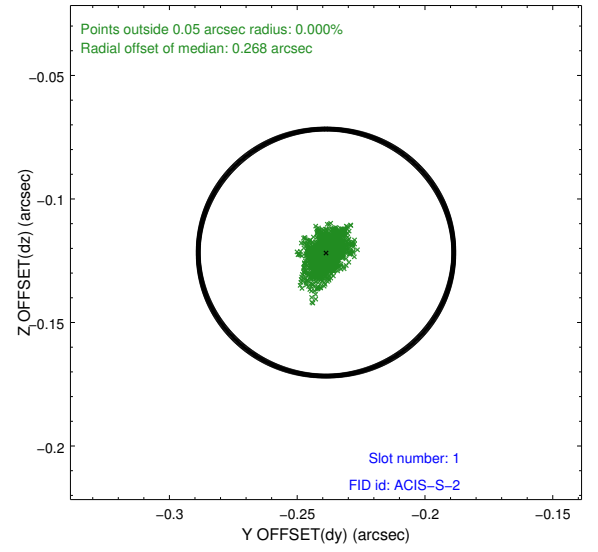
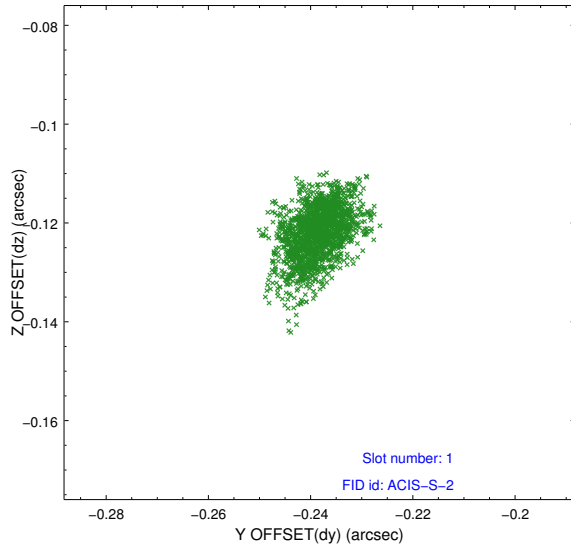


2.5 FID Slots

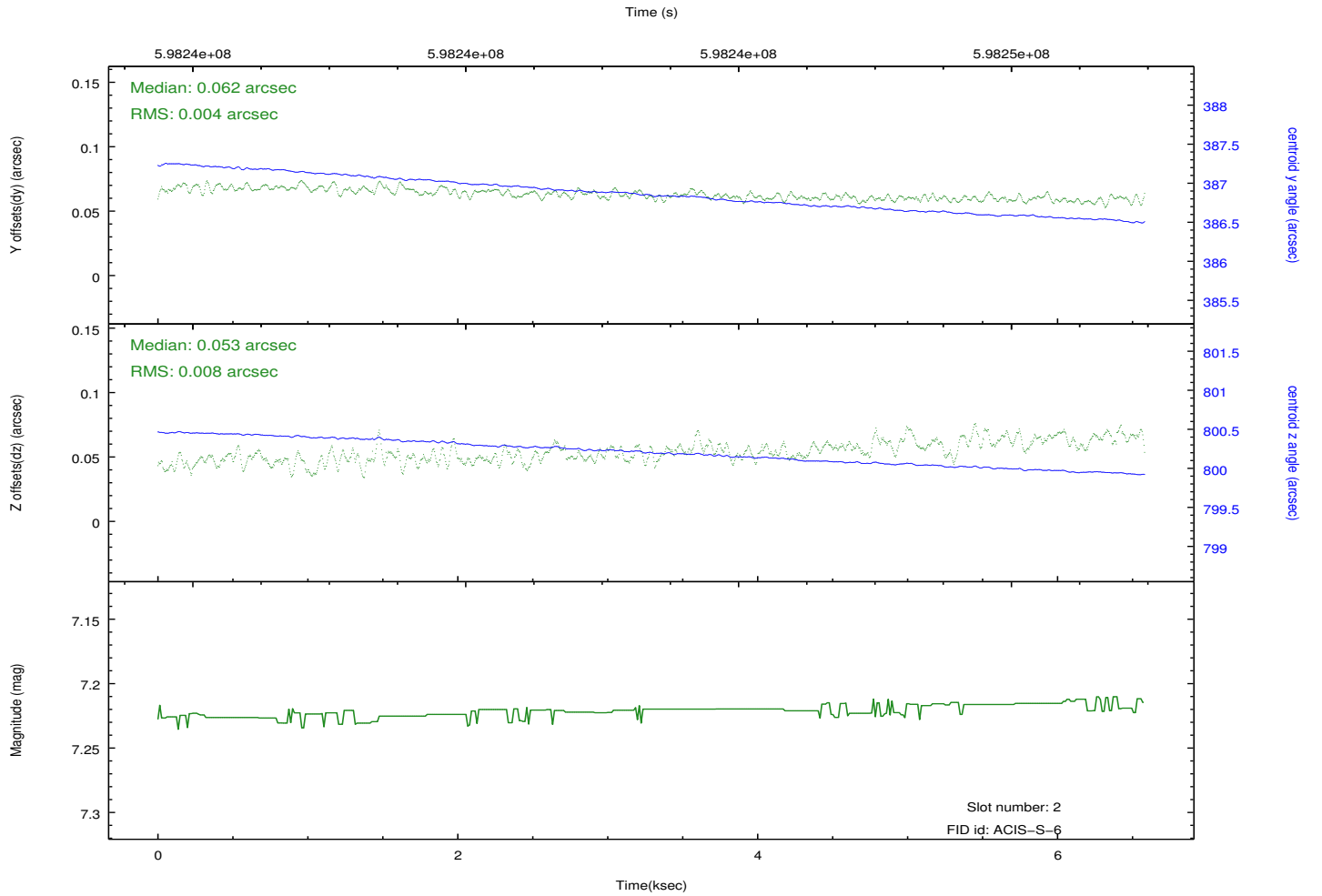
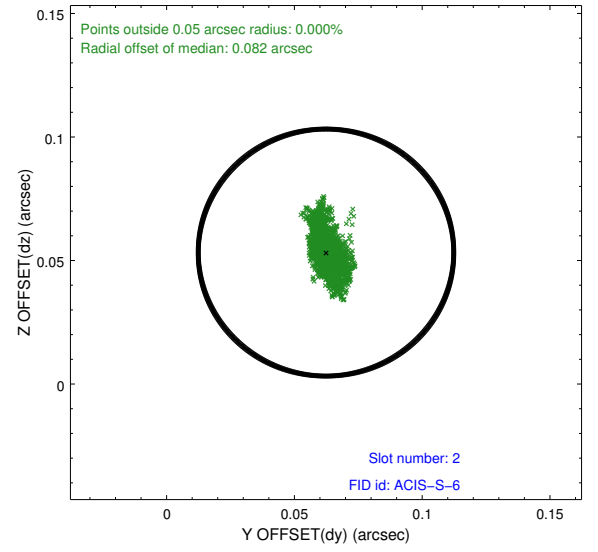
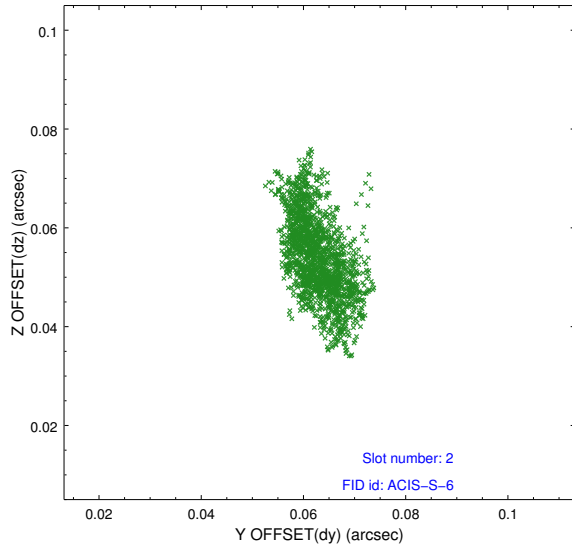
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9552000887394

A.2 Comments