

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7306 - L2 Version 2
Chandra X-Ray Center

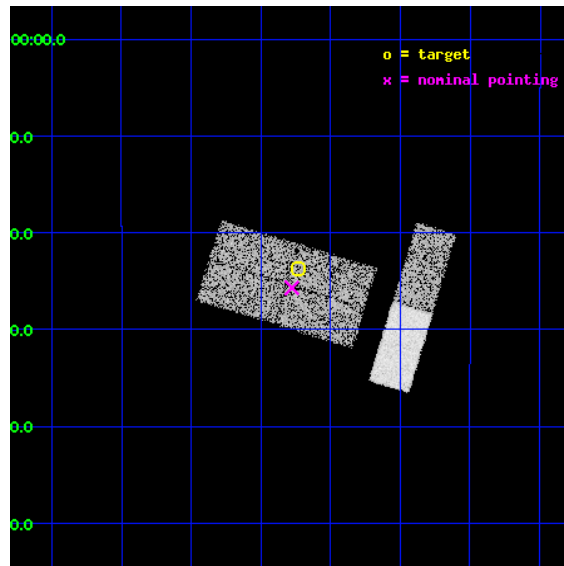
L2 Processing Date : Mar 28 2012

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1 Front

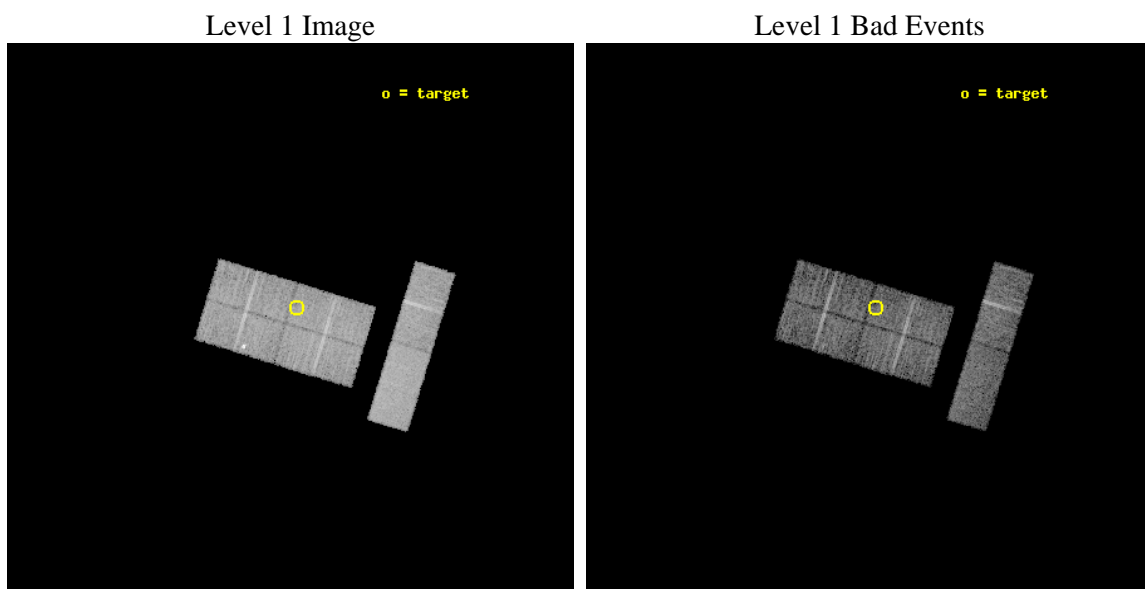
seq_num	100062	Sequence number
obs_id	7306	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	321.807489	Observer's specified target RA [deg]
dec_targ	-13.39585	Observer's specified target Dec [deg]
ra_nom	321.81947820947	Nominal RA [deg]
dec_nom	-13.428302703978	Nominal Dec [deg]
roll_nom	107.01020940582	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6391.8000423312	Sum of GTIs [s]
livetime	6249.3156456113	Livetime [s]
ontime0	6391.8000423312	Sum of GTIs [s]
ontime1	6391.8000423312	Sum of GTIs [s]
ontime2	6391.8000423312	Sum of GTIs [s]
ontime3	6391.8000423312	Sum of GTIs [s]
ontime6	6388.1179623604	Sum of GTIs [s]
ontime7	6391.8000423312	Sum of GTIs [s]
l2events	31496	Number of level 2 events



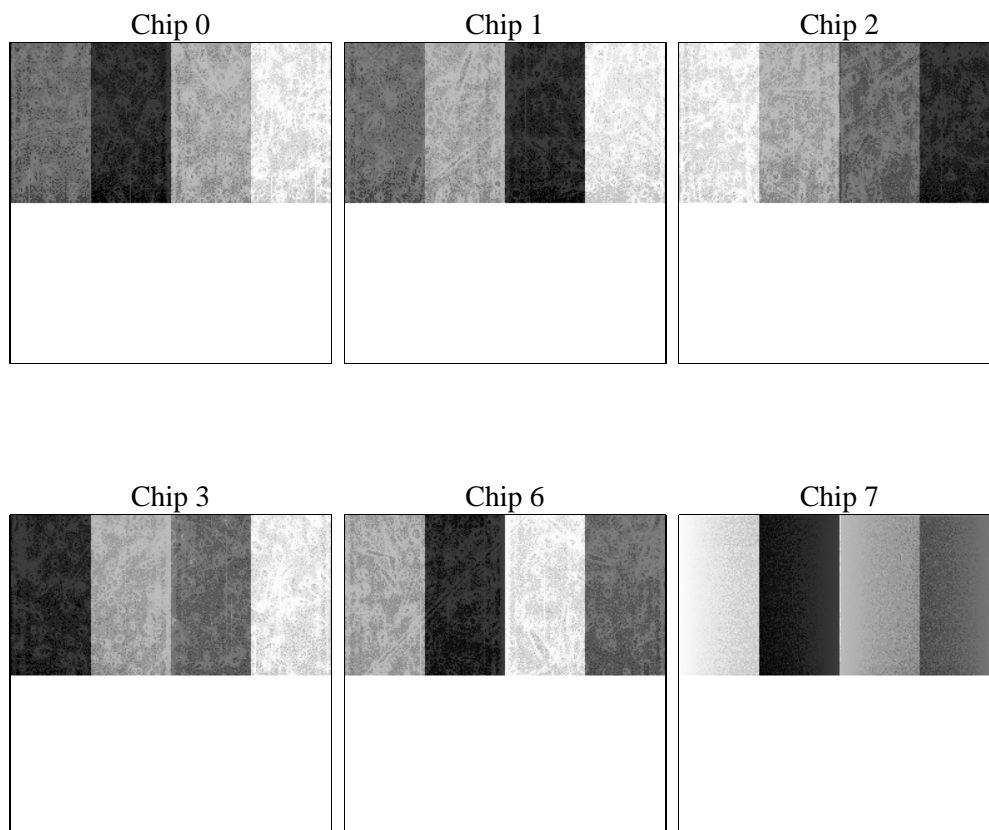
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	6391.8000423312	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6391.8000423312	Sum of GTIs [s]
date	2012-03-28T21:21:11	Date and time of file creation	ontime1	6391.8000423312	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6391.8000423312	Sum of GTIs [s]
			ontime3	6391.8000423312	Sum of GTIs [s]
			ontime6	6388.1179623604	Sum of GTIs [s]
			ontime7	6391.8000423312	Sum of GTIs [s]
			l1events	202874	Number of level 1 events

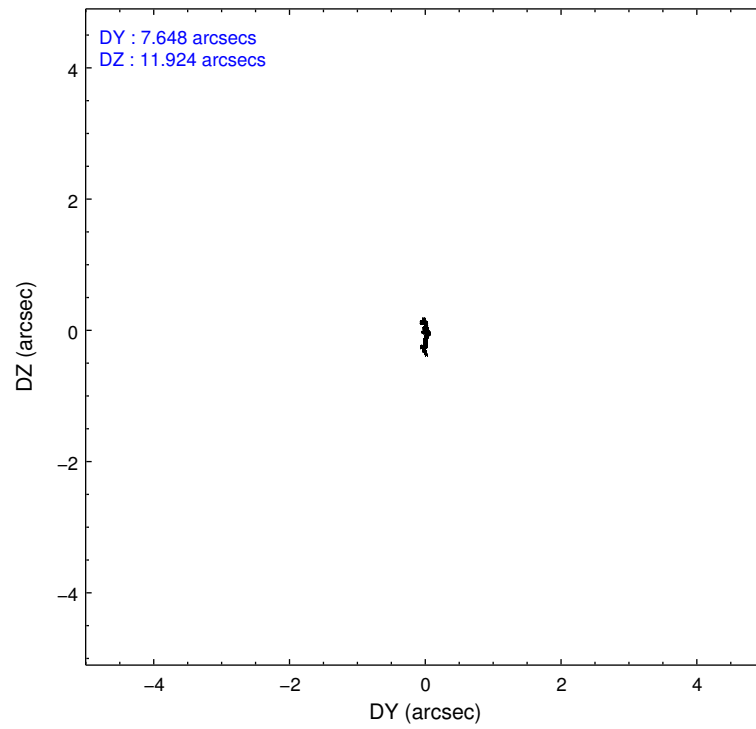
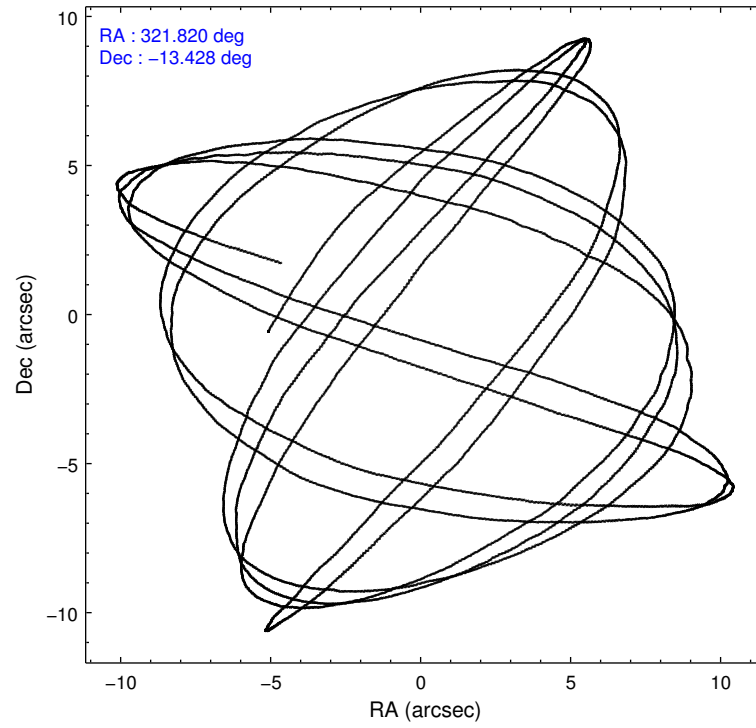
2.1.4 Events

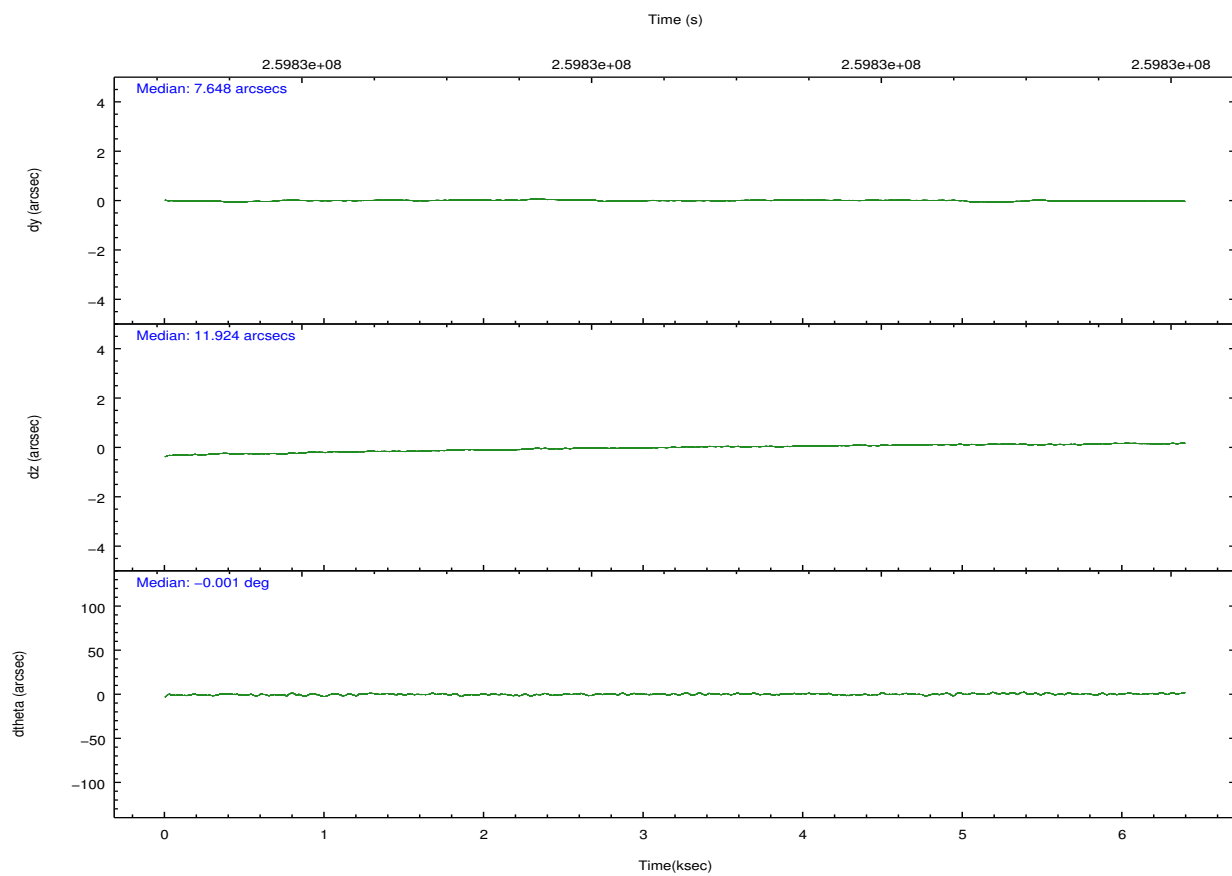
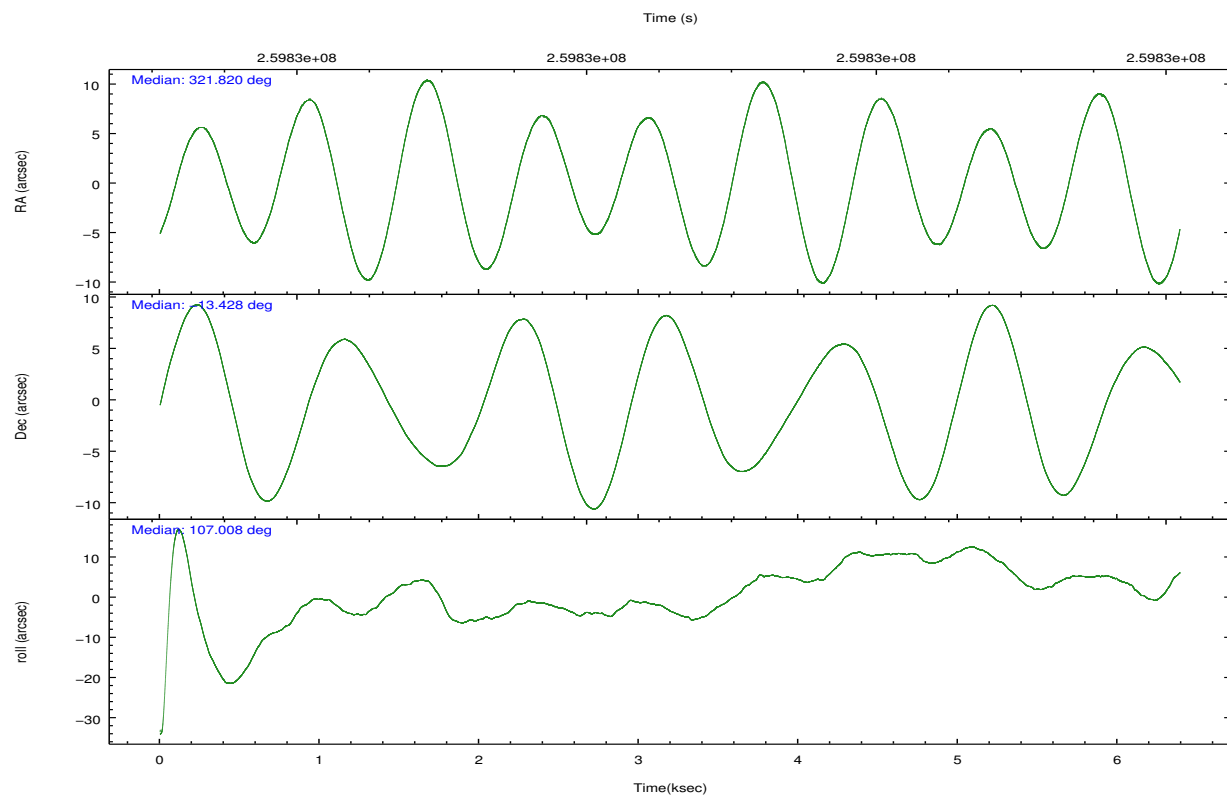
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29501	32022	32363	32602	33924	42462	grade 0 events	1594	2947	1733	1463	1436	1617
rejected events	25913	26965	28771	29186	30201	25699		5%	9%	5%	4%	4%	3%
rejected %	87%	84%	88%	89%	89%	60%	grade 1 events	29	22	15	24	11	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	795	802	713	637	790	3623
								2%	2%	2%	1%	2%	8%
							grade 3 events	399	403	411	455	446	1619
								1%	1%	1%	1%	1%	3%
							grade 4 events	375	429	391	415	453	1651
								1%	1%	1%	1%	1%	3%
							grade 5 events	1305	1325	1221	1486	1486	4160
								4%	4%	3%	4%	4%	9%
							grade 6 events	593	726	536	635	767	9121
								2%	2%	1%	1%	2%	21%
							grade 7 events	24411	25368	27343	27487	28535	20611
								82%	79%	84%	84%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	321.840199	321.8194782094697	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-13.447003	-13.42830270397757	Subarray start row	513	513
[deg] Pointing Roll	106.806348	107.0102094058216	Subarray row count	512	512
[s] Window start time (MET)	258076865.184000	258076865.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	261705665.184000	261705665.184000	[s] Primary exposure time	0.000000	1.8
[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)	259827572.184000	259827195.75798			
Observation start date	2006-03-27T06:18:27	2006-03-27T06:13:15			
[s] Observation end time (MET)	259833772.184000	259833906.4333			
Observation end date	2006-03-27T08:01:47	2006-03-27T08:05:06			
Read mode	TIMED	TIMED			

2.3 Aspect



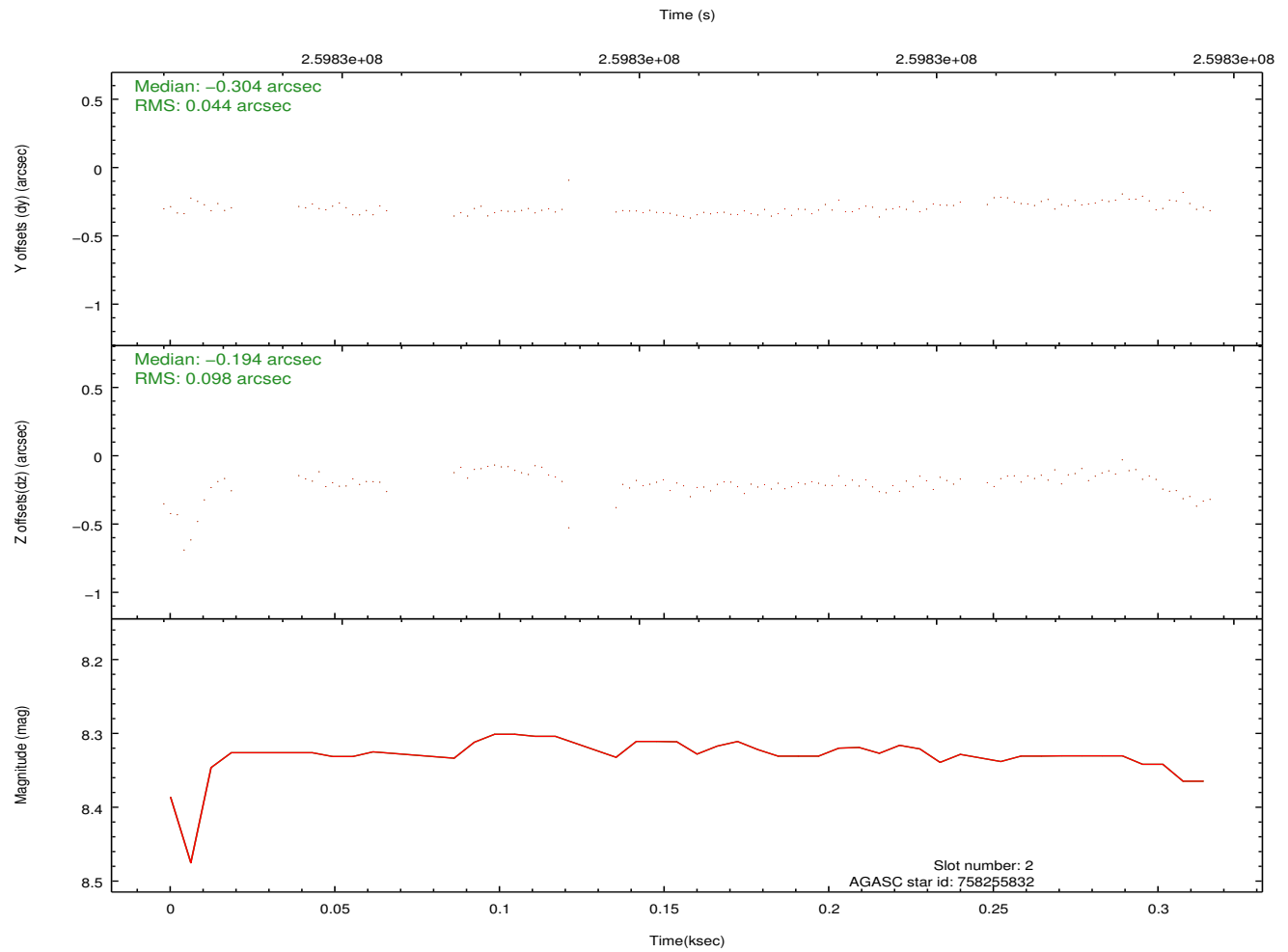
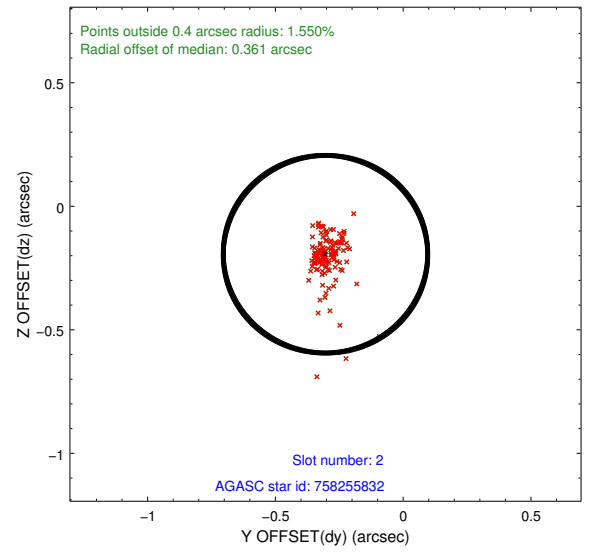
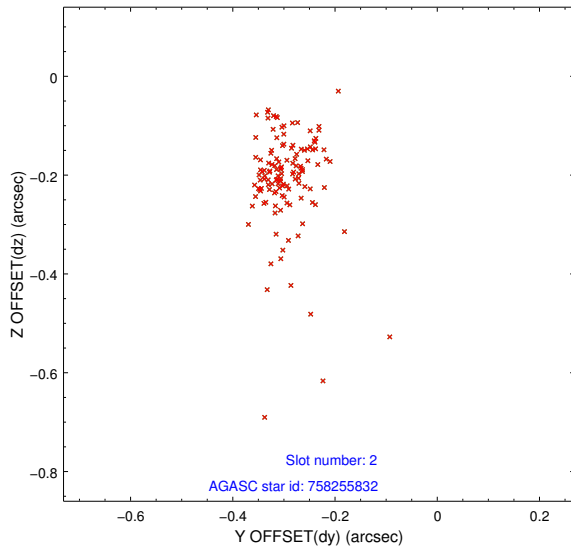


Slot Statistics

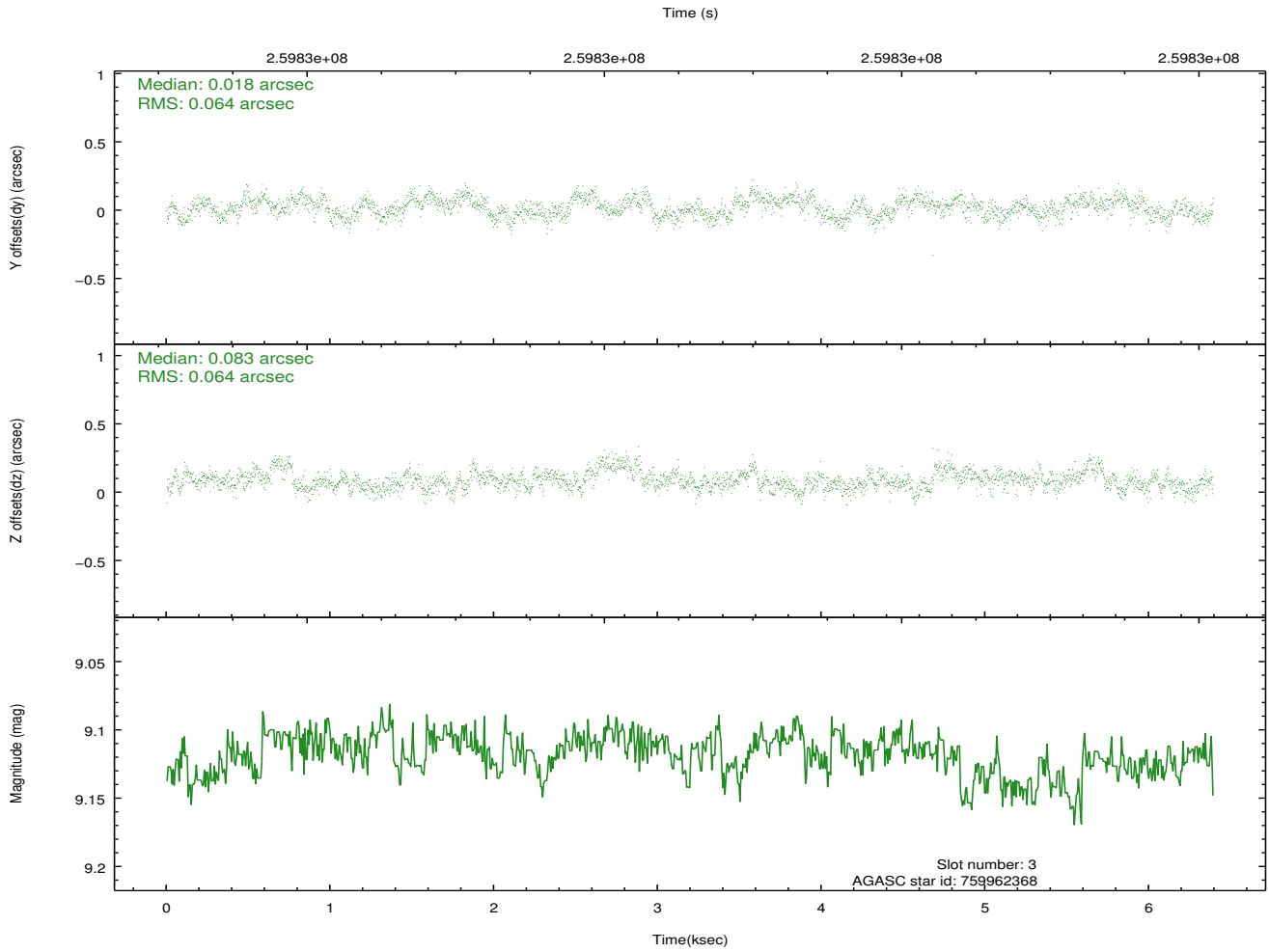
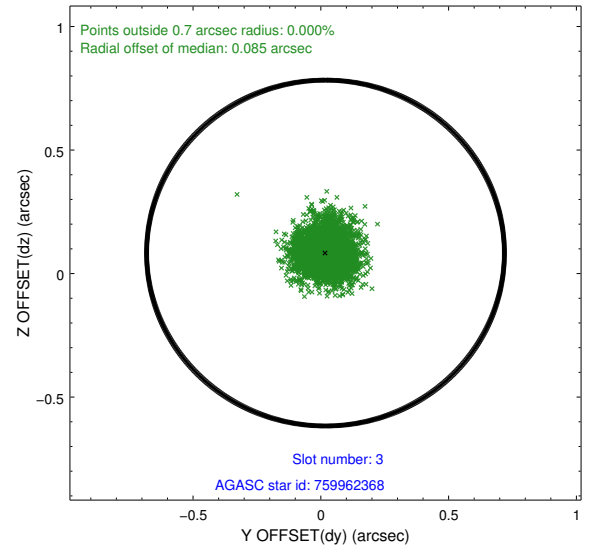
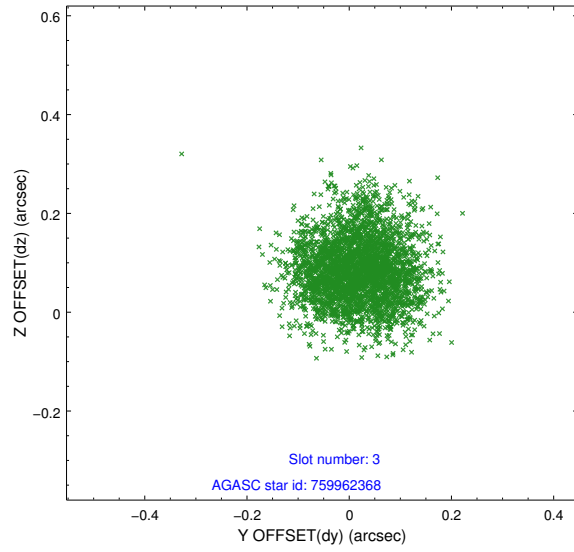
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1559	0.023	-0.077	0.007	0.013	0.000000	0.000000	-762.15	-841.84
1	FID	ACIS-I-5	7.23	1559	-0.087	0.125	0.007	0.013	0.000000	0.000000	-1816.73	1061.77
2	BAD	758255832	8.33	129	-0.304	-0.194	0.086	0.198	321.303380	-13.493524	374.37	1842.05
3	GUIDE	759962368	9.12	3116	0.018	0.083	0.098	0.155	322.267195	-13.797795	-1641.79	-1062.76
4	GUIDE	759962544	9.38	3119	0.044	0.129	0.079	0.131	322.119077	-13.952845	-2026.05	-406.23
5	GUIDE	759963784	9.85	3112	-0.065	0.207	0.105	0.174	322.079300	-13.771695	-1361.86	-462.10
6	GUIDE	758253496	9.84	3112	-0.040	-0.163	0.156	0.249	321.358592	-13.614283	-91.44	1787.34
7	GUIDE	759961200	9.90	3116	0.042	-0.267	0.134	0.225	321.872560	-14.109246	-2315.00	581.53

2.4 Star Slots

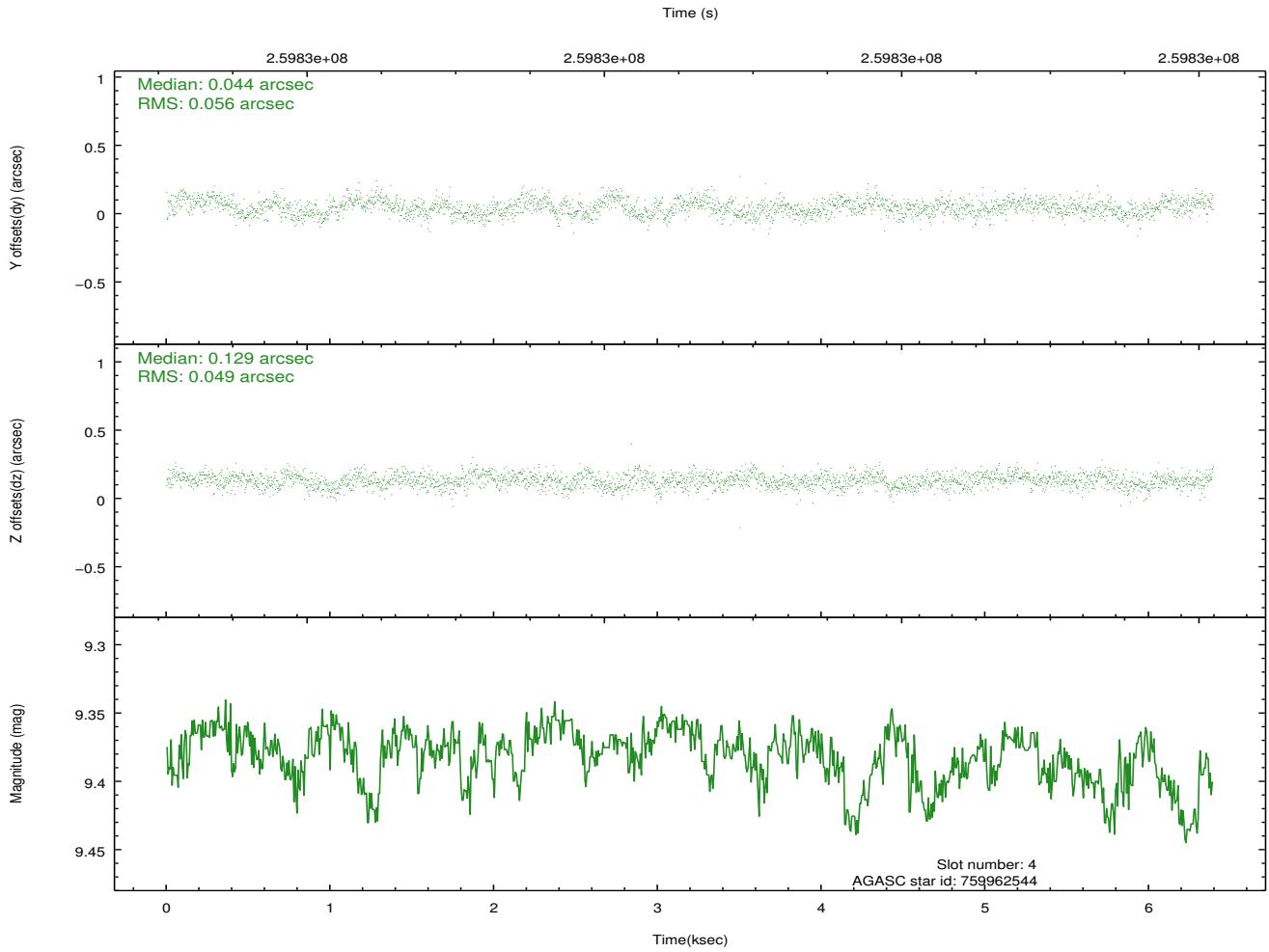
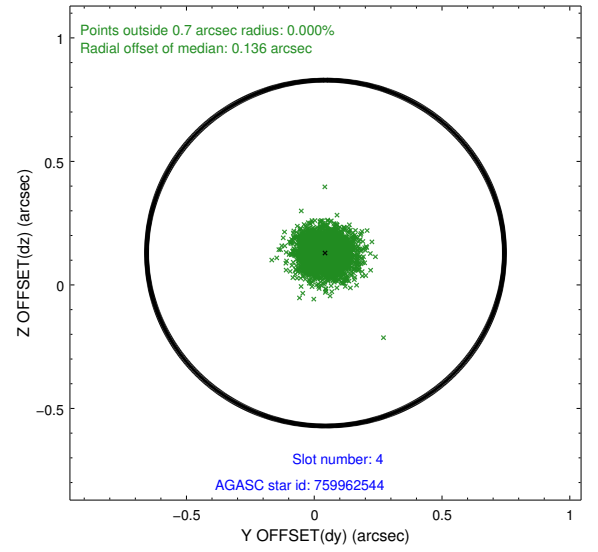
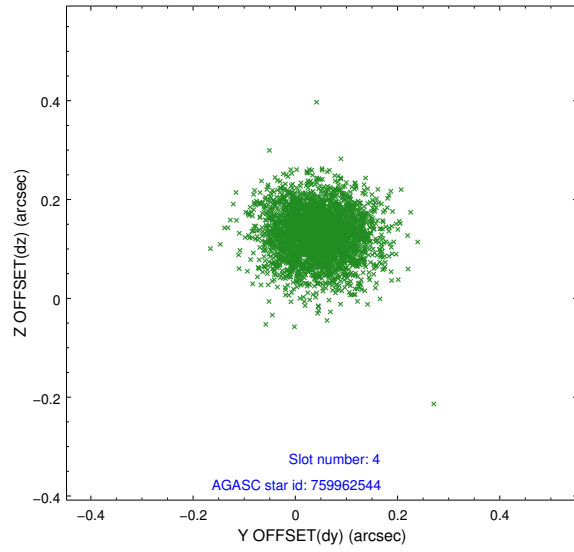
2.4.1 Slot 2



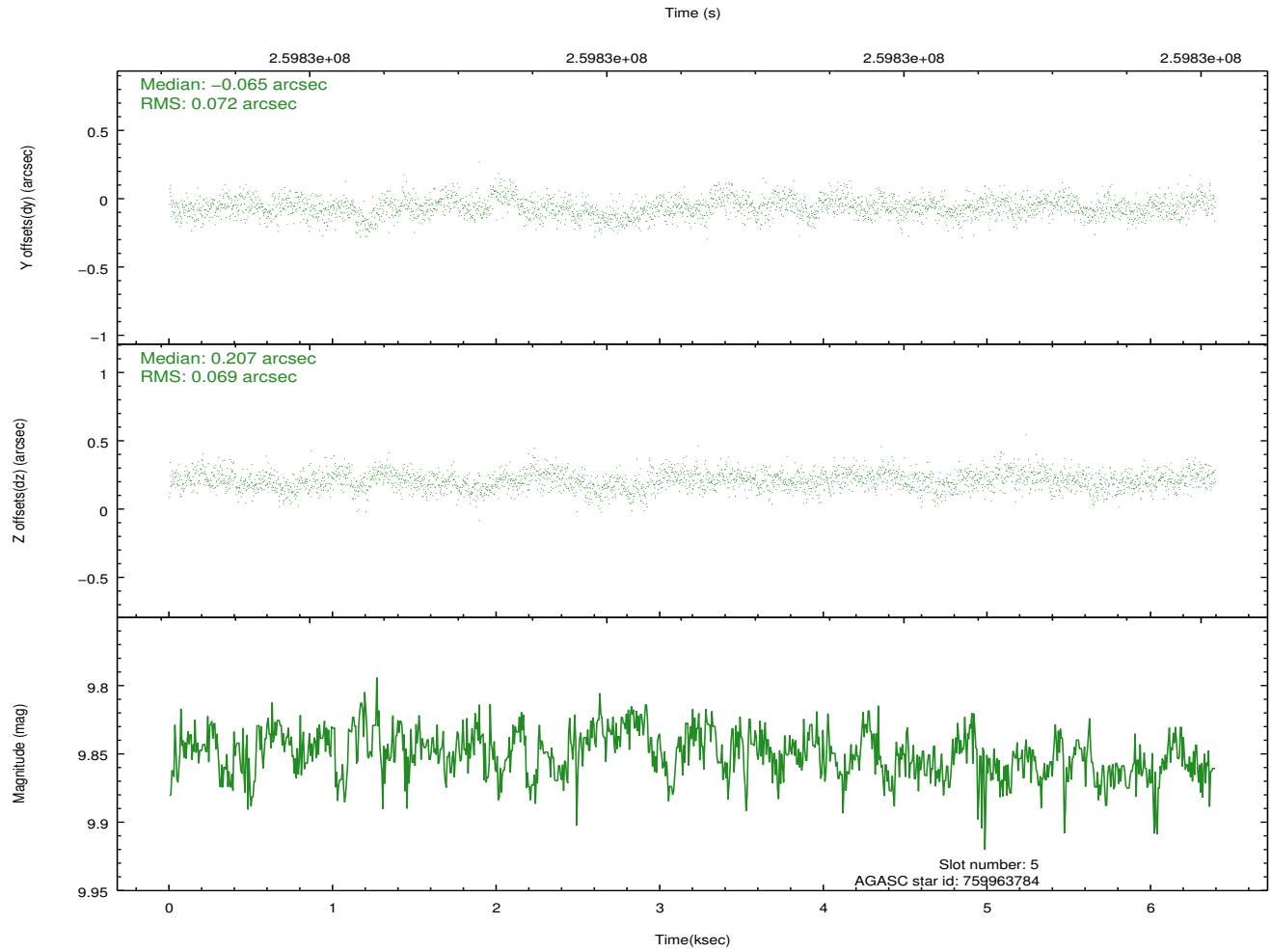
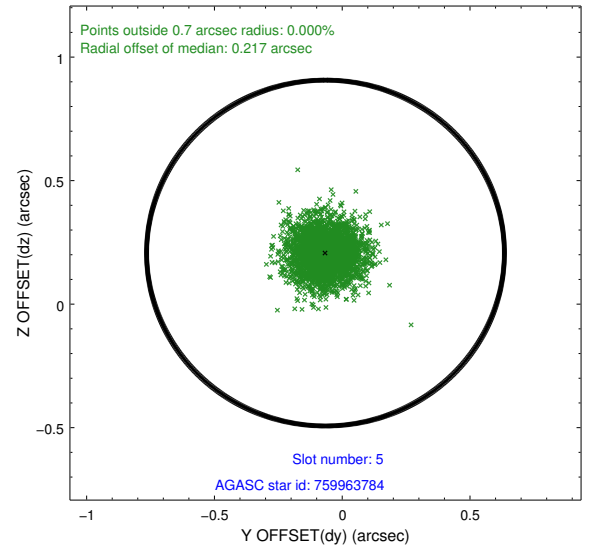
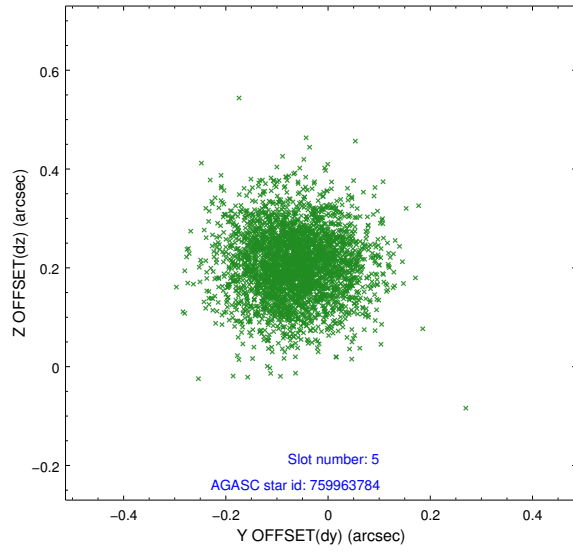
2.4.2 Slot 3



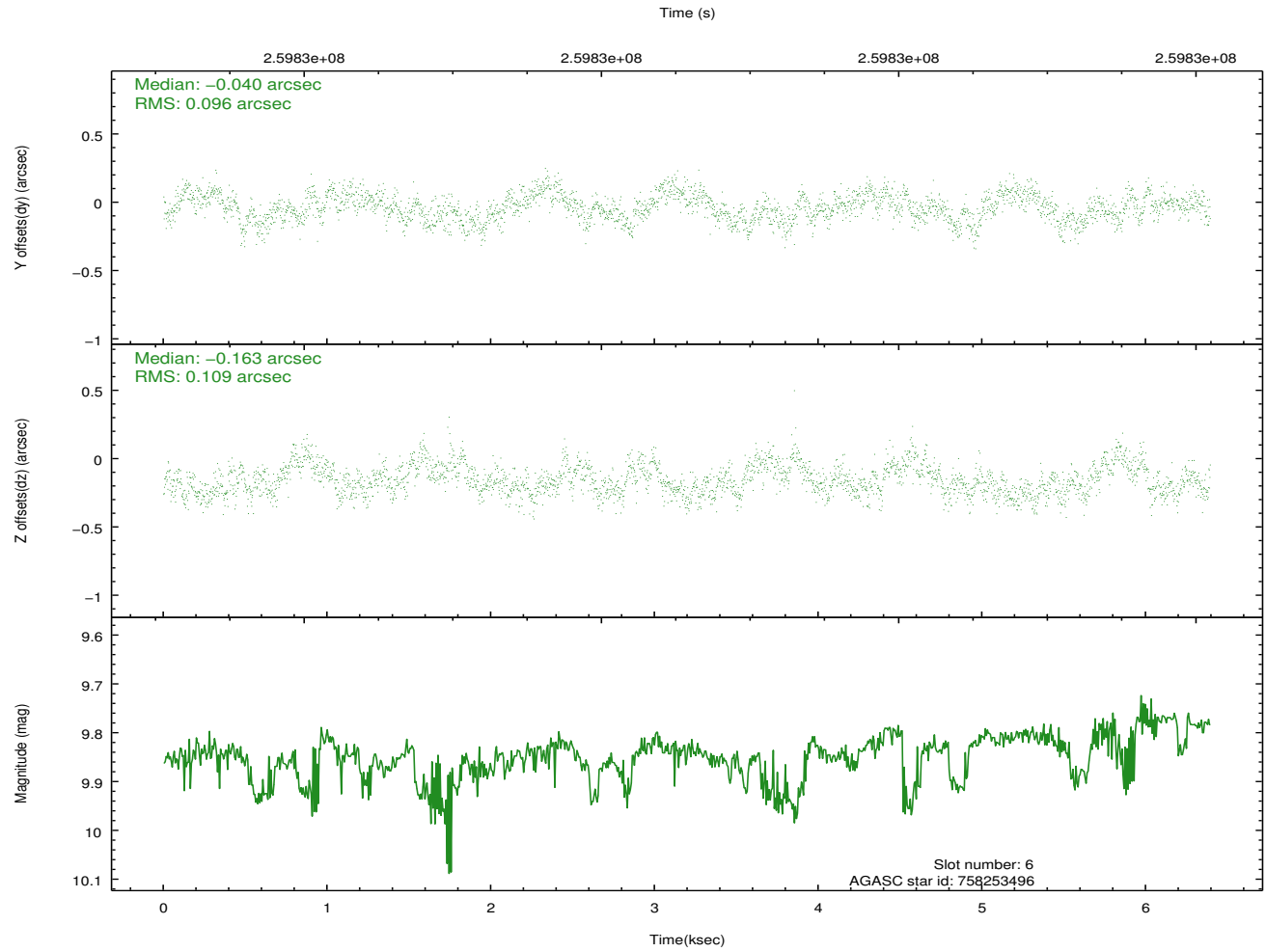
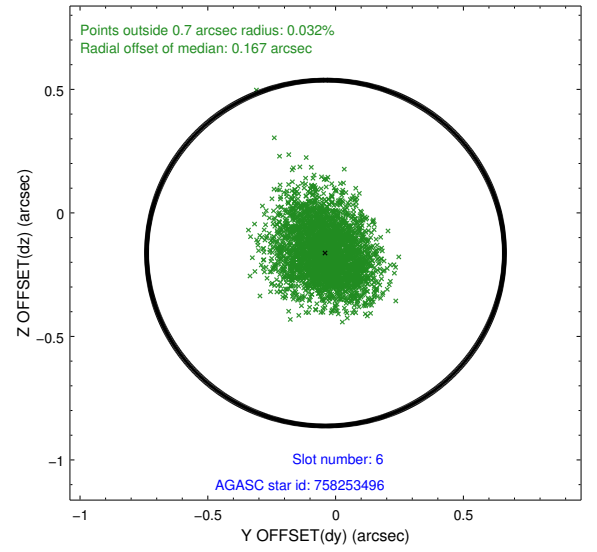
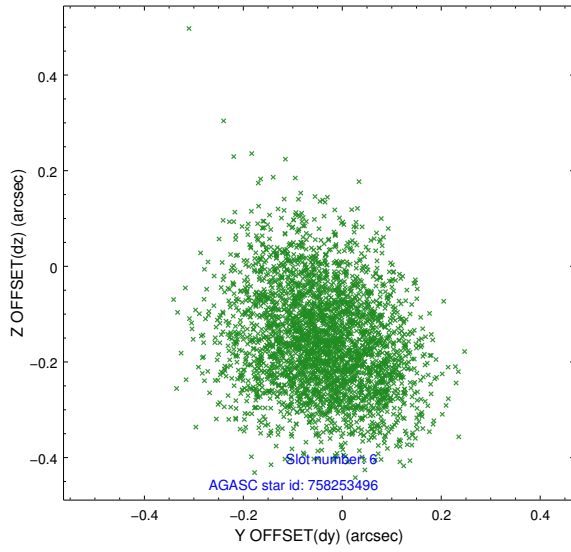
2.4.3 Slot 4



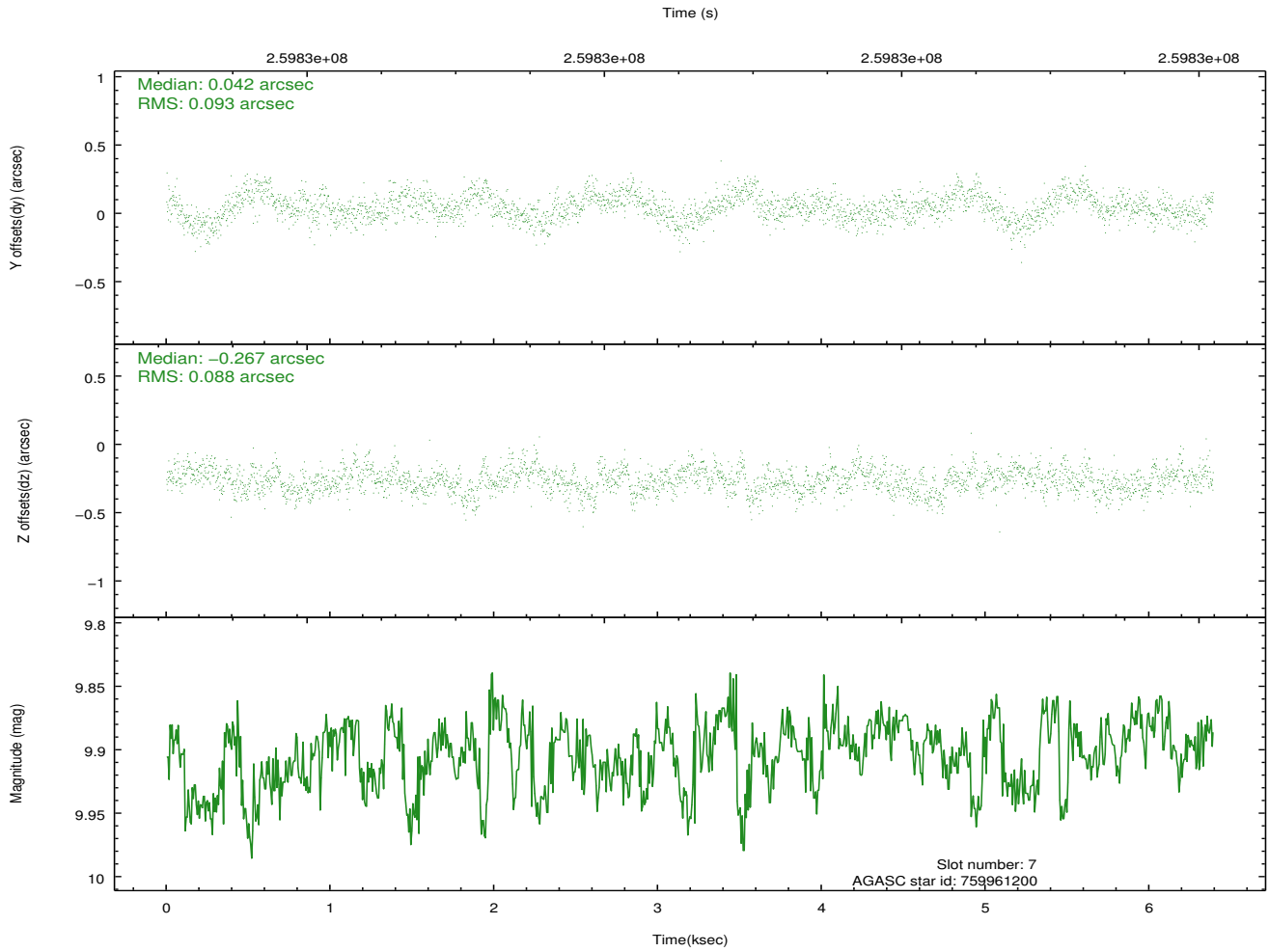
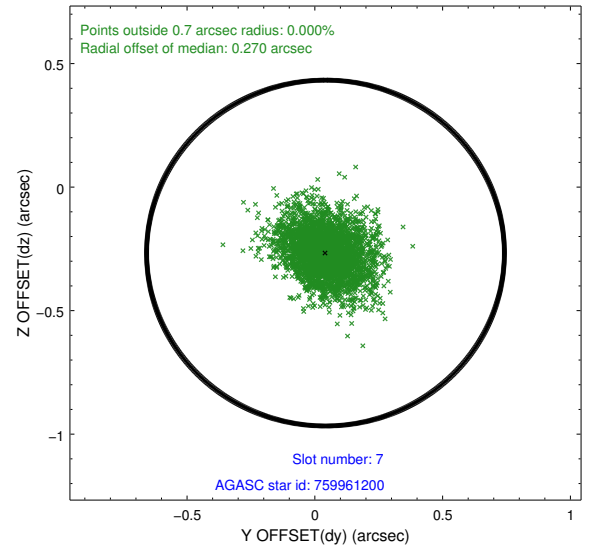
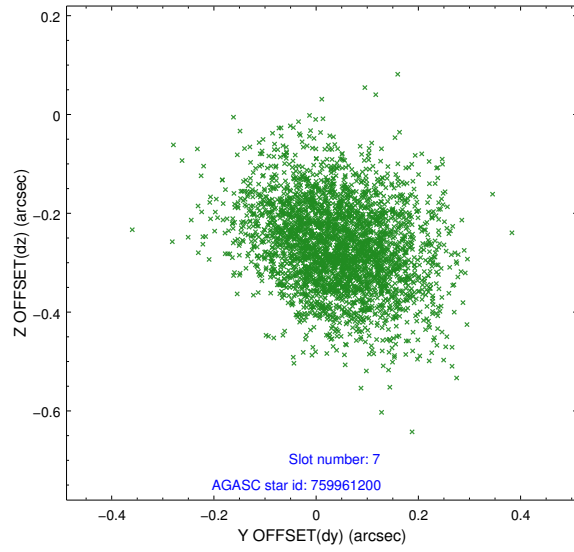
2.4.4 Slot 5



2.4.5 Slot 6

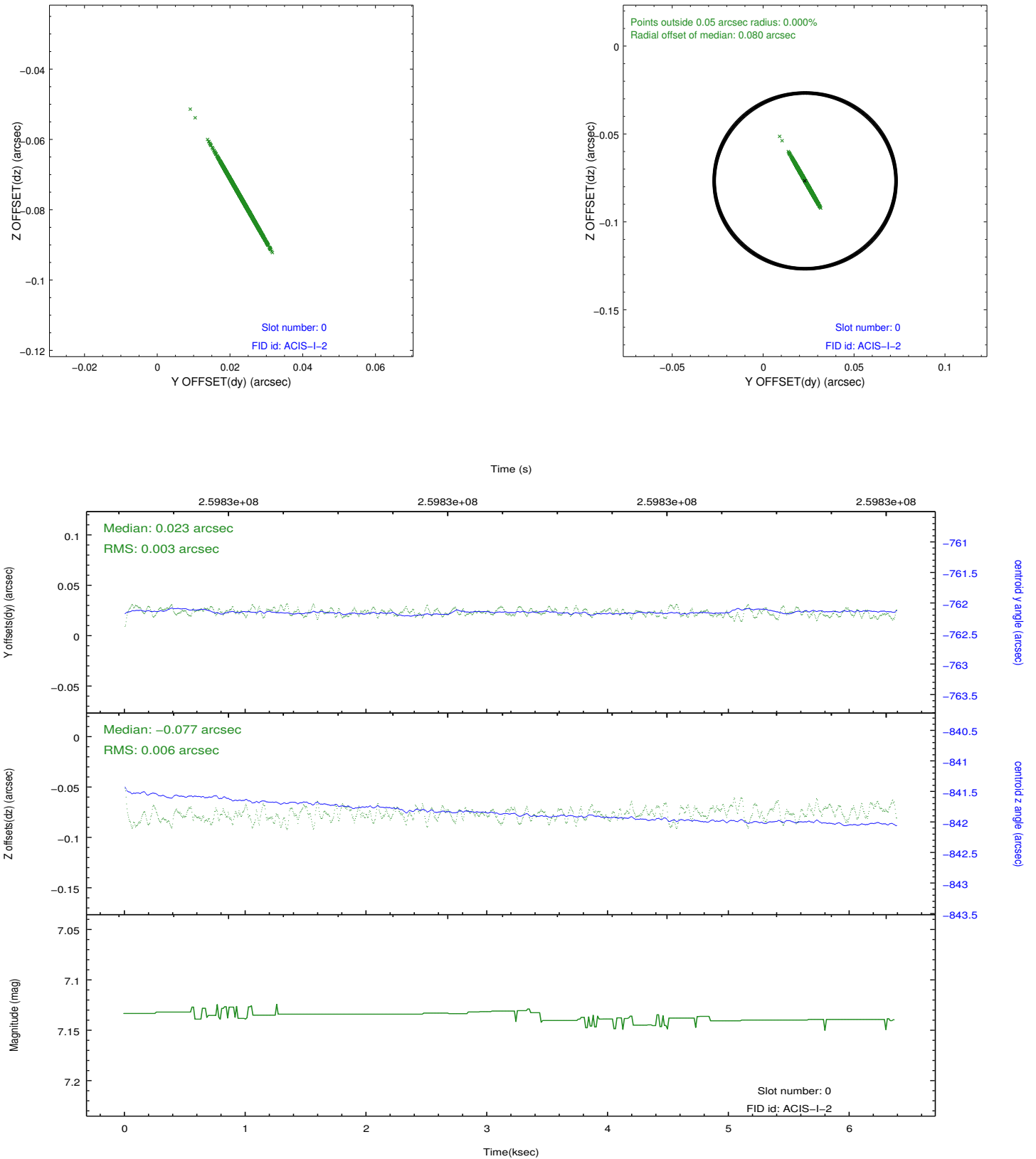


2.4.6 Slot 7

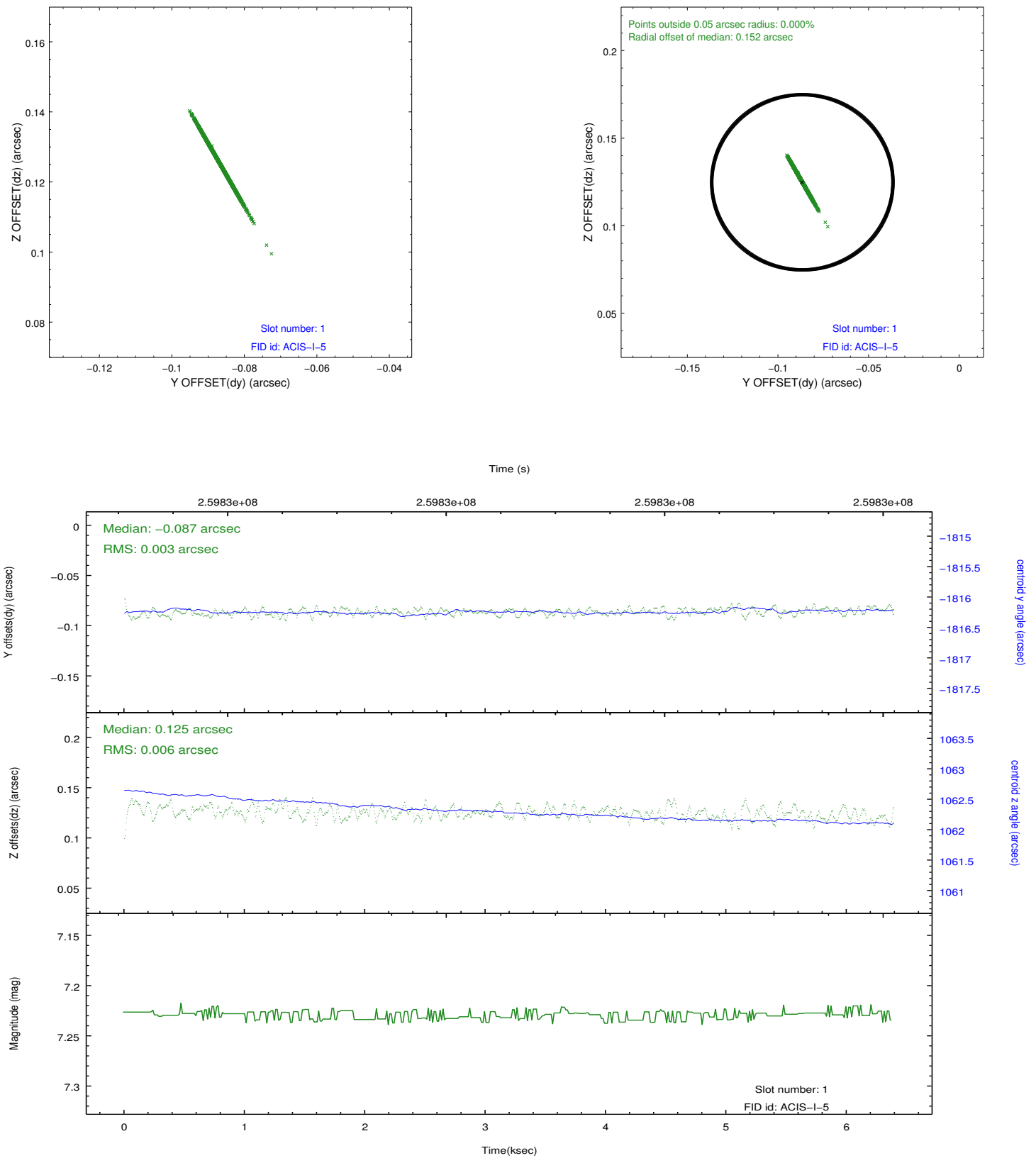


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.39180004

A.2 Comments

Window preference met.

The fid light in slot 2 was excluded from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.