

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7314 - L2 Version 2
Chandra X-Ray Center

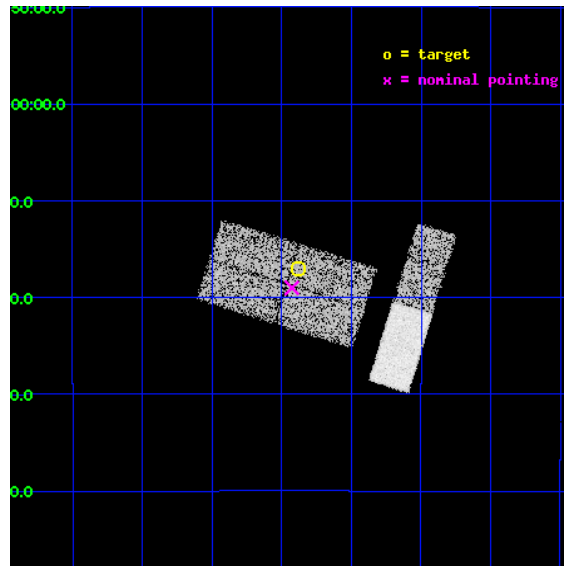
L2 Processing Date : Mar 28 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 2	9
2.4.2	Slot 3	10
2.4.3	Slot 4	11
2.4.4	Slot 5	12
2.4.5	Slot 6	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

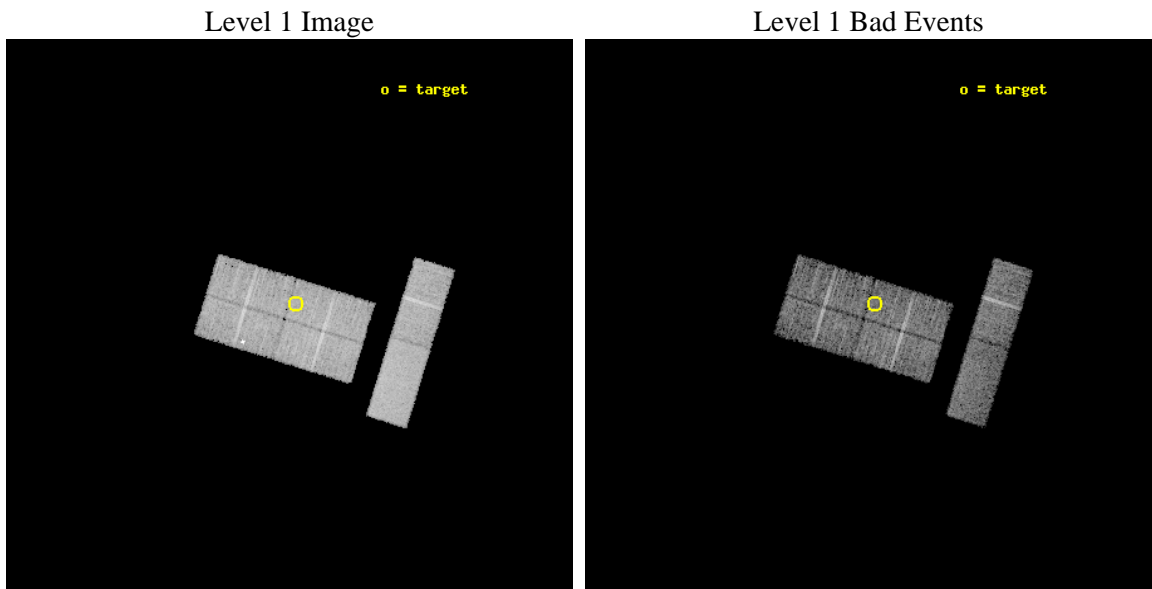
seq_num	100062	Sequence number
obs_id	7314	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.469467	Observer's specified target RA [deg]
dec_targ	-13.284344	Observer's specified target Dec [deg]
ra_nom	322.48163072344	Nominal RA [deg]
dec_nom	-13.3169055542	Nominal Dec [deg]
roll_nom	107.24013457705	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6388.2000423074	Sum of GTIs [s]
livetime	6245.7958958813	Livetime [s]
ontime0	6388.2000423074	Sum of GTIs [s]
ontime1	6388.2000423074	Sum of GTIs [s]
ontime2	6388.2000423074	Sum of GTIs [s]
ontime3	6388.2000423074	Sum of GTIs [s]
ontime6	6388.2000423074	Sum of GTIs [s]
ontime7	6388.2000423074	Sum of GTIs [s]
l2events	31417	Number of level 2 events



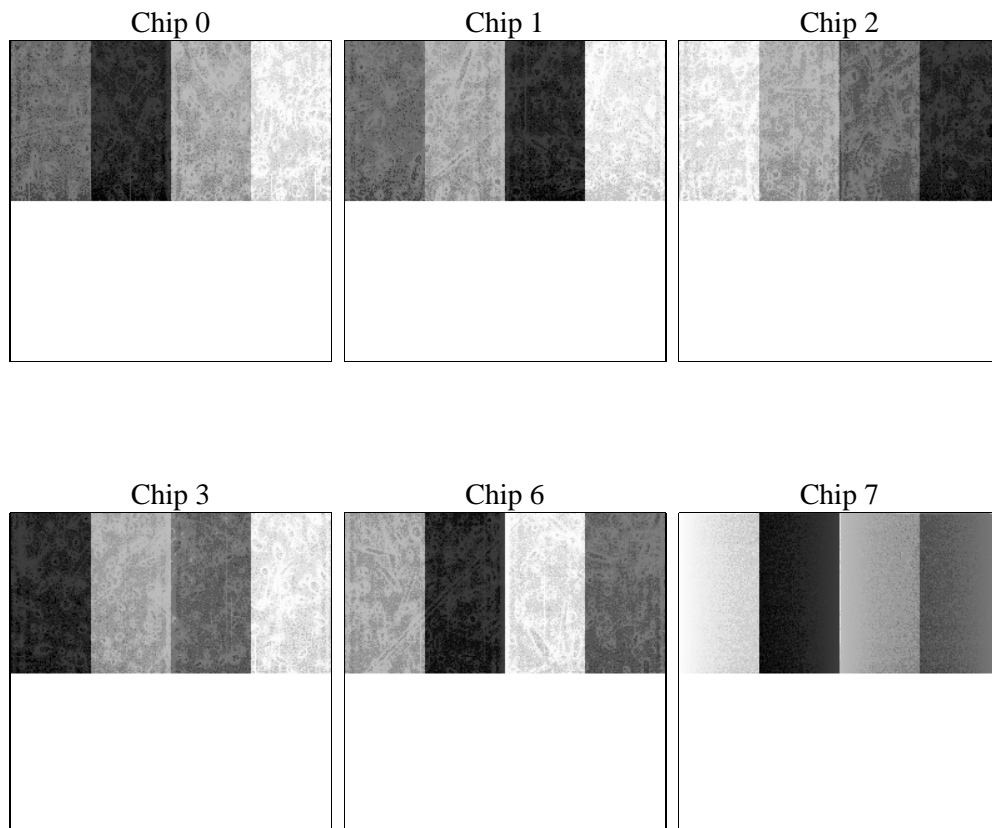
2 OBI

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	6388.2000423074	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6388.2000423074	Sum of GTIs [s]
date	2012-03-28T21:23:42	Date and time of file creation	ontime1	6388.2000423074	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6388.2000423074	Sum of GTIs [s]
			ontime3	6388.2000423074	Sum of GTIs [s]
			ontime6	6388.2000423074	Sum of GTIs [s]
			ontime7	6388.2000423074	Sum of GTIs [s]
			l1events	205625	Number of level 1 events

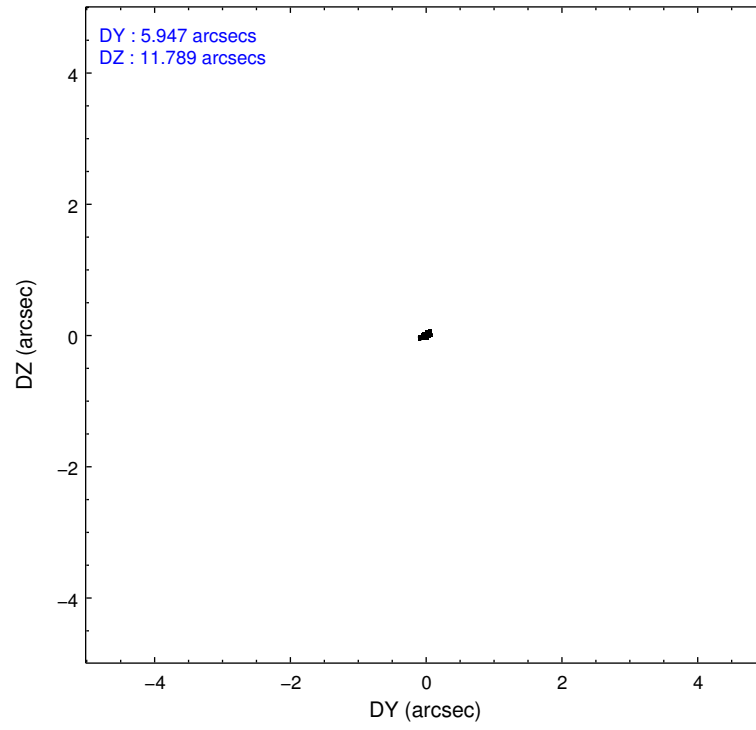
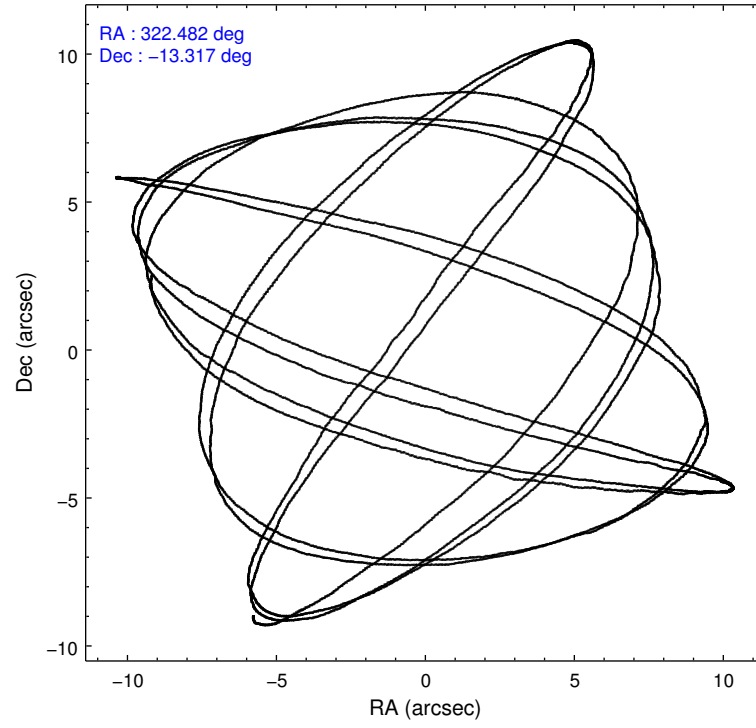
2.1.4 Events

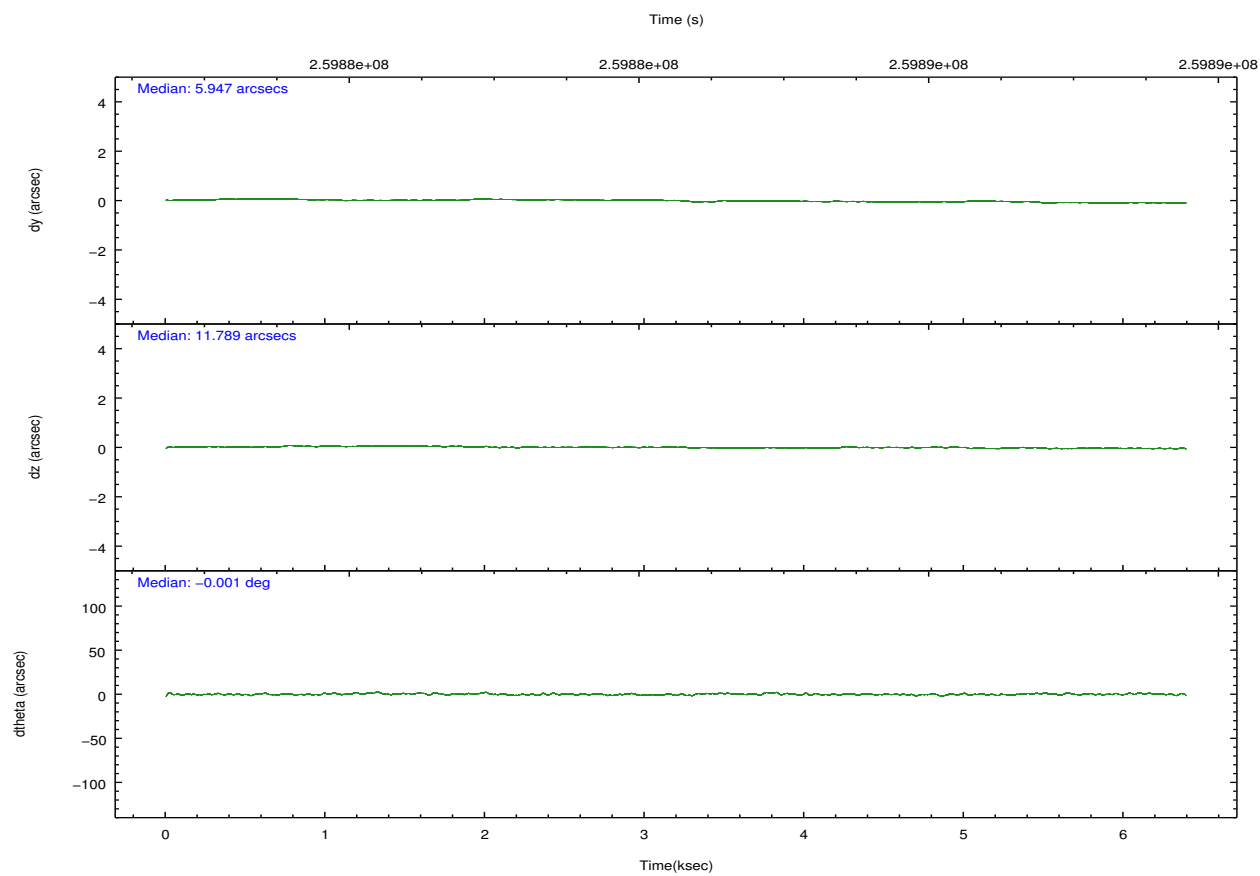
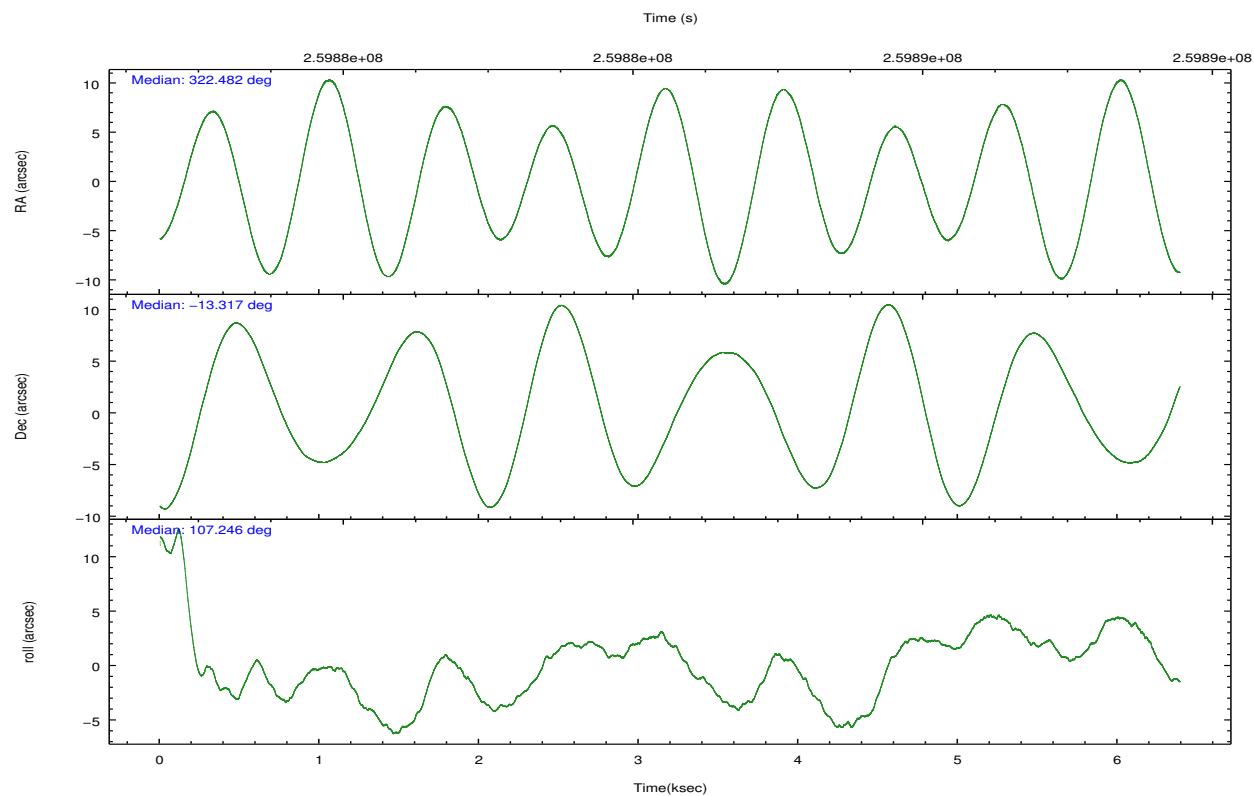
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30520	31944	32992	35253	33619	41297	grade 0 events	1562	2750	1684	1551	1534	1675
rejected events	27009	27147	29312	31687	29885	24806		5%	8%	5%	4%	4%	4%
rejected %	88%	84%	88%	89%	88%	60%	grade 1 events	24	18	23	22	15	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	749	793	756	698	786	3462
								2%	2%	2%	1%	2%	8%
							grade 3 events	417	424	413	464	415	1621
								1%	1%	1%	1%	1%	3%
							grade 4 events	352	404	431	428	420	1624
								1%	1%	1%	1%	1%	3%
							grade 5 events	1257	1292	1232	1433	1507	4007
								4%	4%	3%	4%	4%	9%
							grade 6 events	623	679	571	593	754	8925
								2%	2%	1%	1%	2%	21%
							grade 7 events	25536	25584	27882	30064	28188	19926
								83%	80%	84%	85%	83%	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	322.502370	322.4816307234388	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-13.335370	-13.31690555420035	Subarray start row	513	513
[deg] Pointing Roll	107.036236	107.2401345770533	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)	259881252.184000	259880876.03548			
Observation start date	2006-03-27T21:13:07	2006-03-27T21:07:56			
[s] Observation end time (MET)	259887452.184000	259887586.1983			
Observation end date	2006-03-27T22:56:27	2006-03-27T22:59:46			
Read mode	TIMED	TIMED			

2.3 Aspect



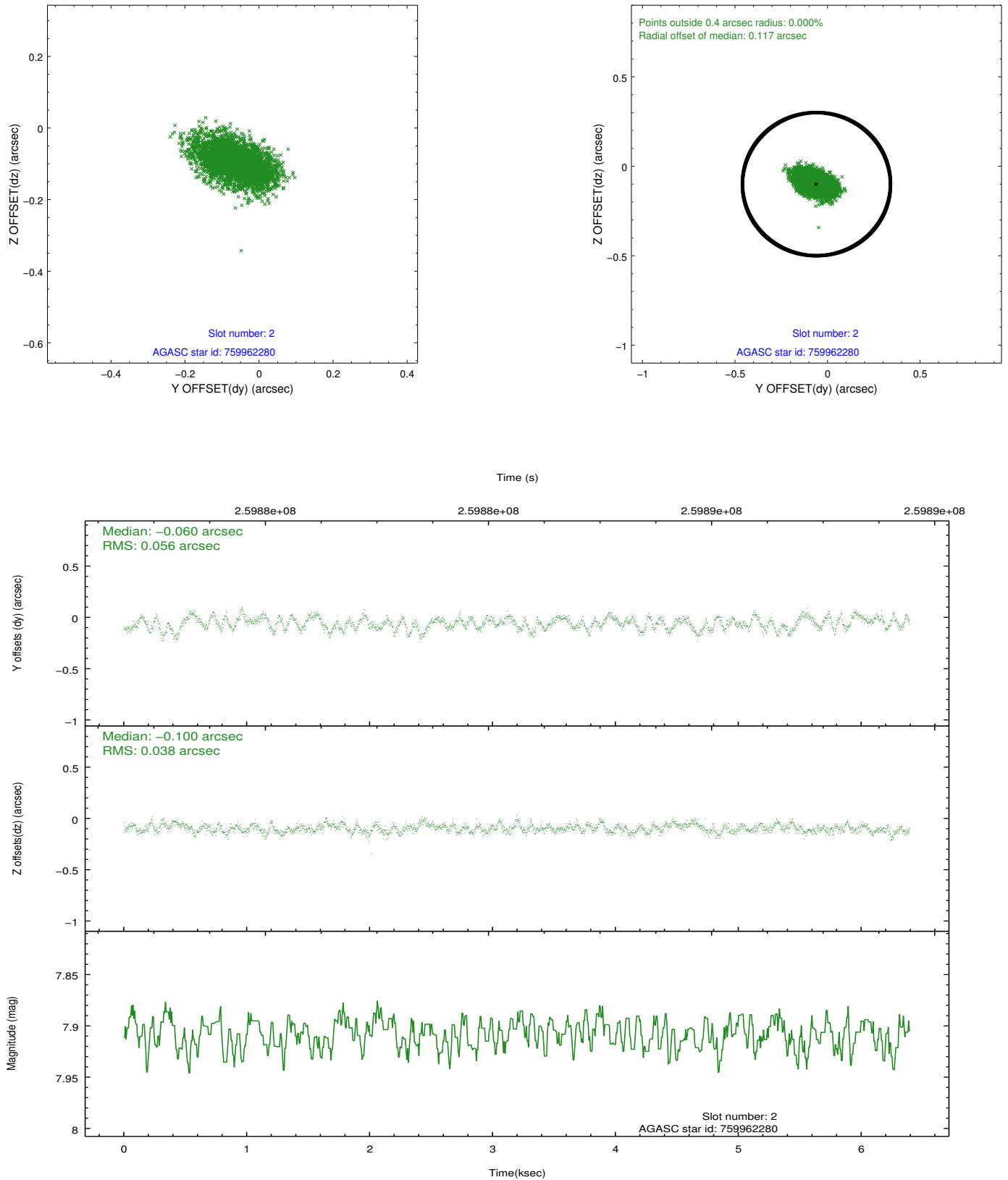


Slot Statistics

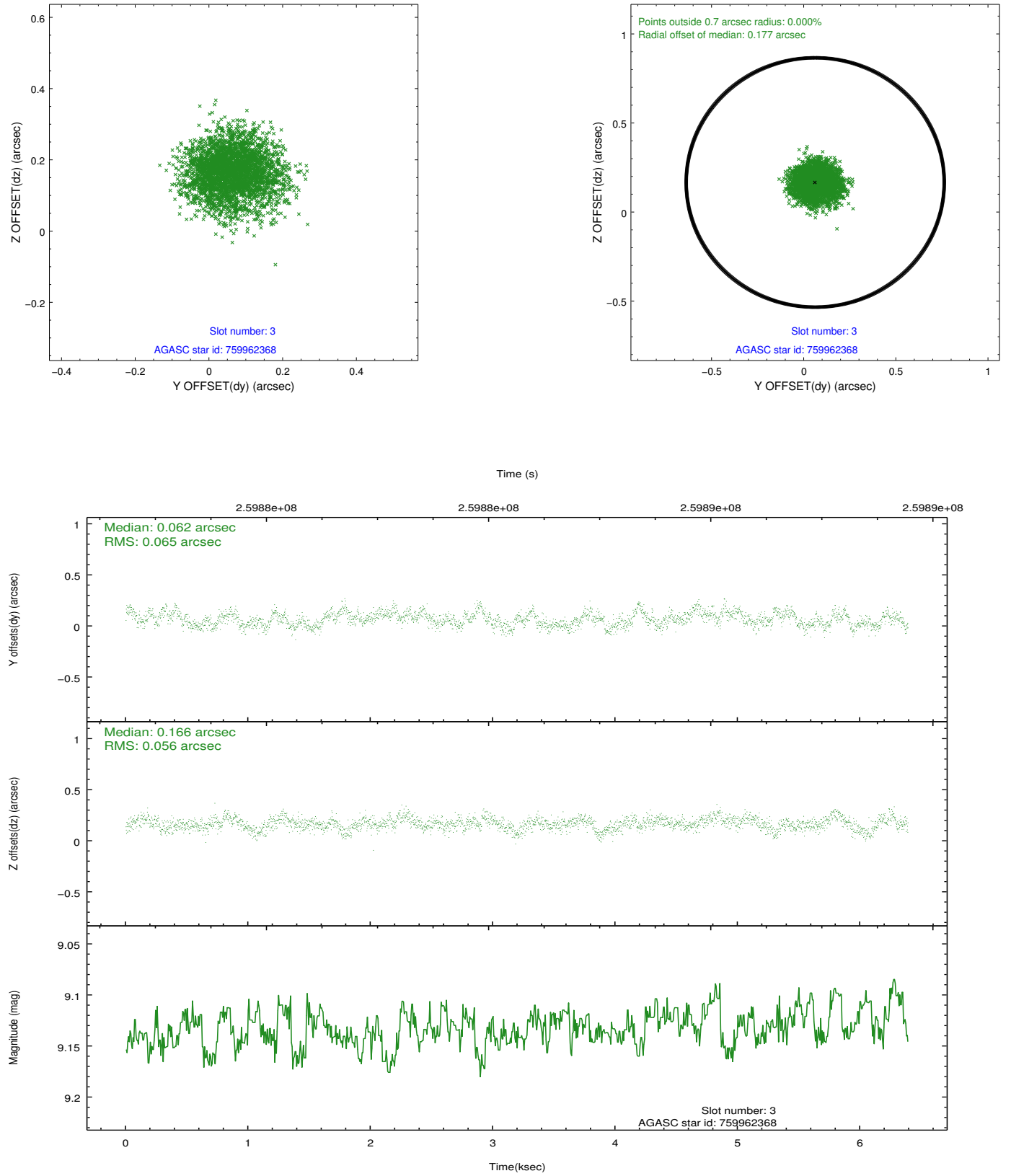
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1559	0.023	-0.076	0.009	0.020	0.000000	0.000000	-760.40	-841.73
1	FID	ACIS-I-5	7.23	1559	-0.086	0.124	0.009	0.020	0.000000	0.000000	-1814.97	1061.88
2	GUIDE	759962280	7.91	3117	-0.060	-0.100	0.071	0.119	322.001957	-13.698366	-738.69	2056.93
3	GUIDE	759962368	9.13	3113	0.062	0.166	0.094	0.146	322.267195	-13.797795	-1351.38	1274.91
4	GUIDE	759962544	9.37	3115	0.139	-0.065	0.102	0.162	322.119077	-13.952845	-1734.23	1932.41
5	GUIDE	759962960	8.48	3117	-0.185	-0.071	0.100	0.148	321.922663	-13.562736	-191.09	2180.68
6	GUIDE	759963784	9.91	3114	0.047	0.072	0.109	0.183	322.079300	-13.771695	-1069.57	1875.71
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

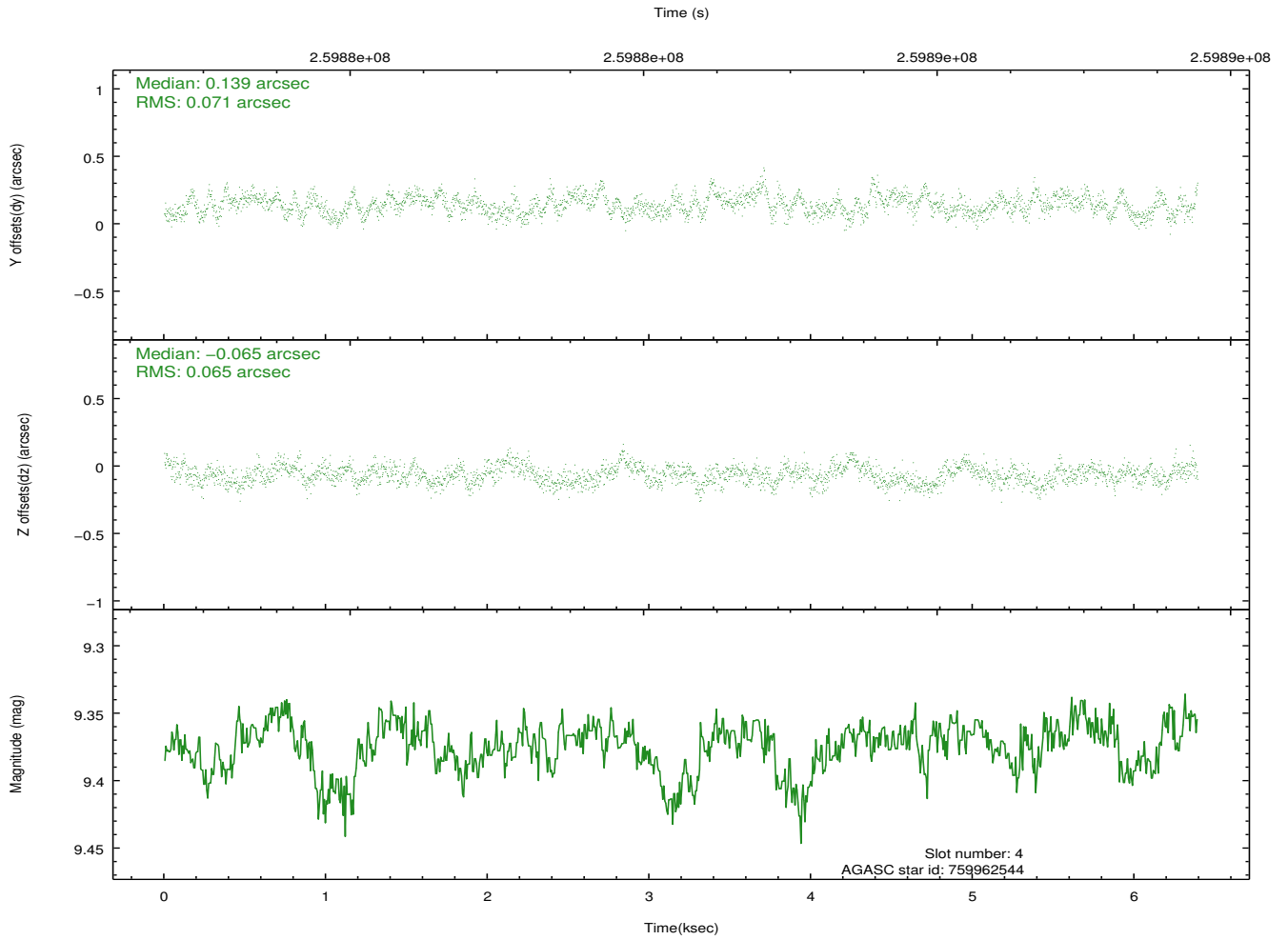
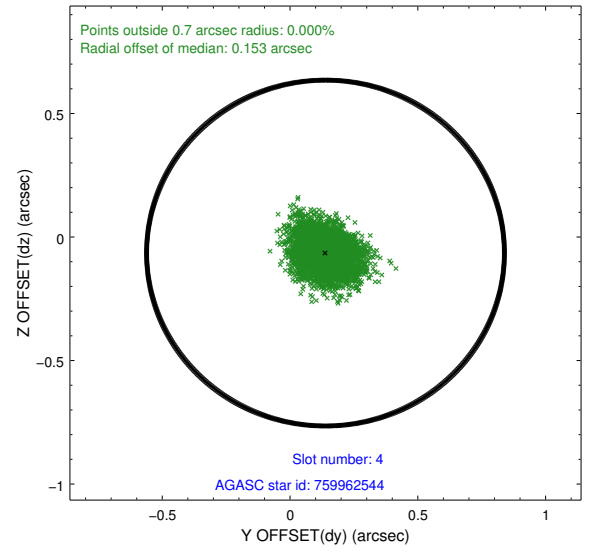
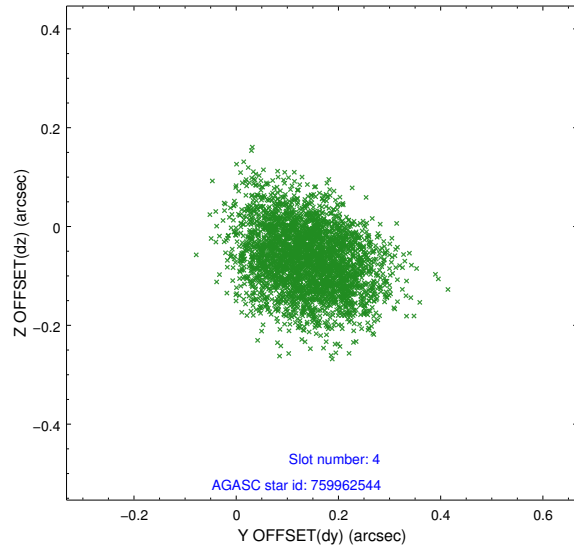
2.4.1 Slot 2



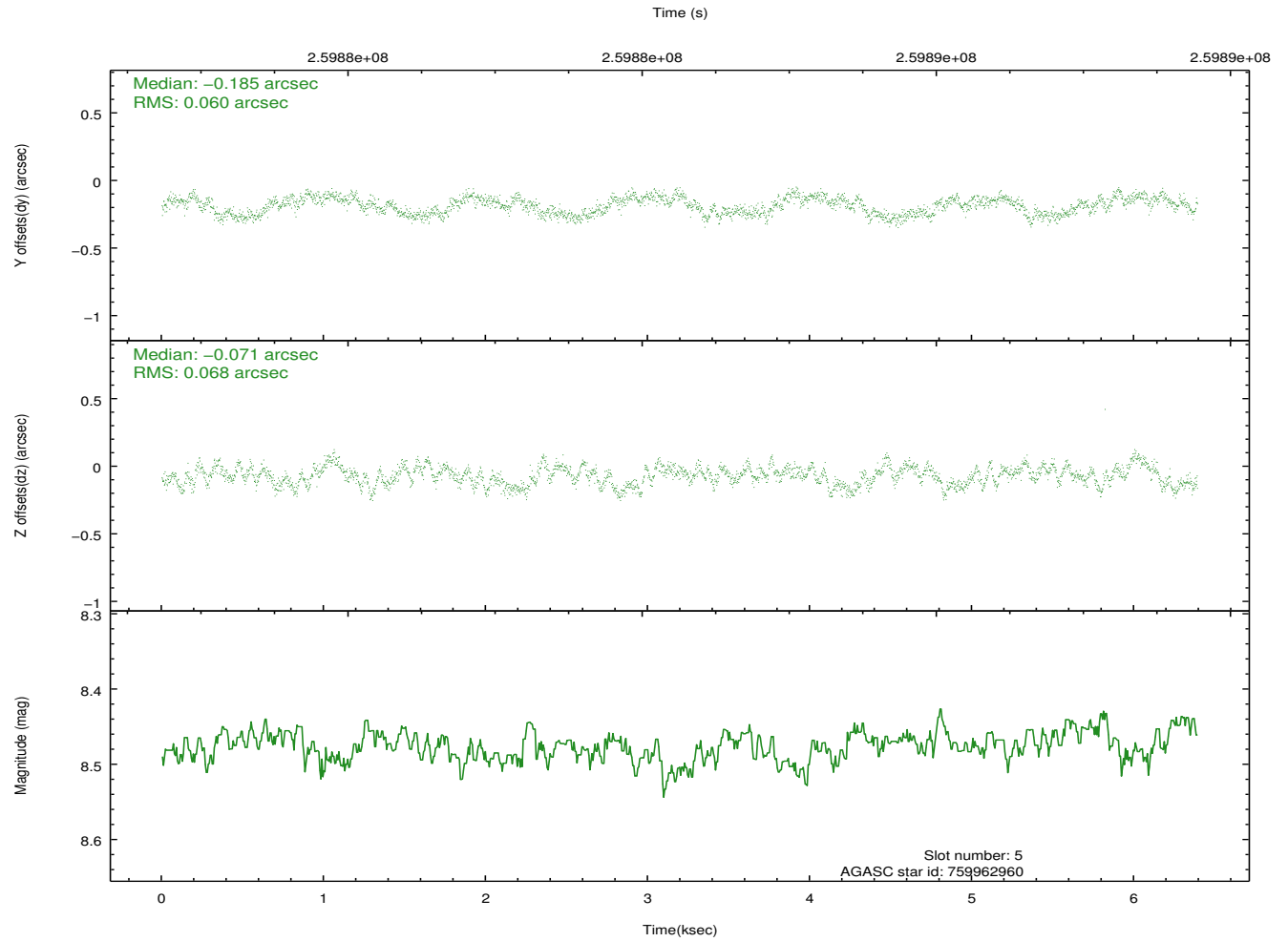
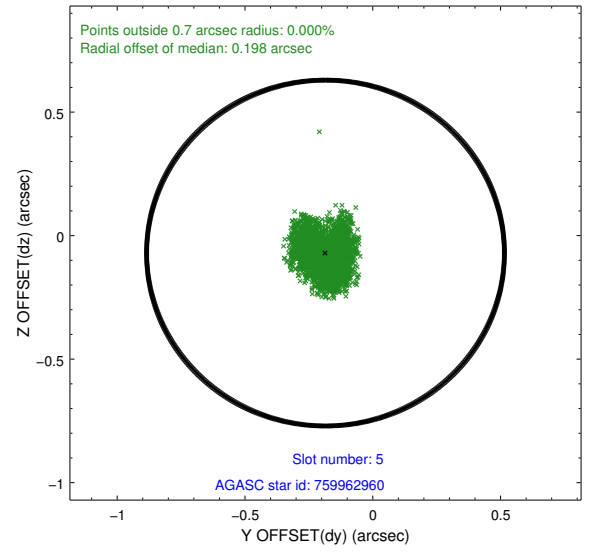
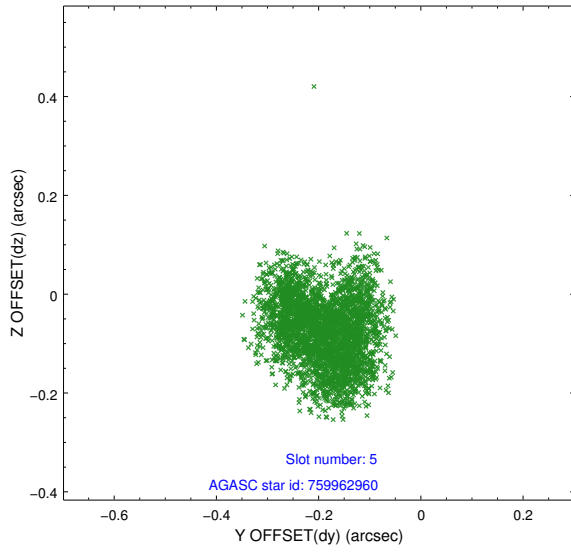
2.4.2 Slot 3



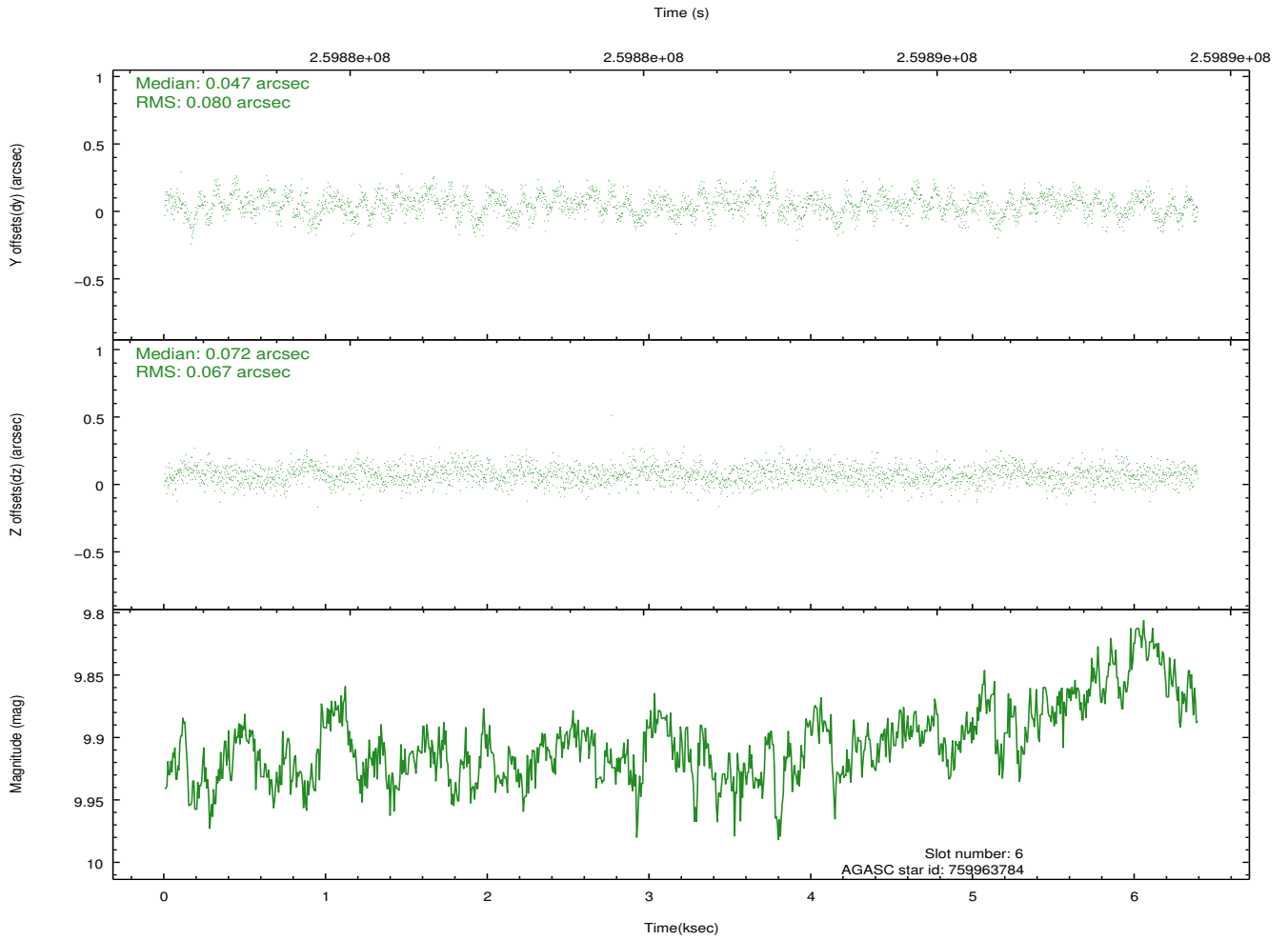
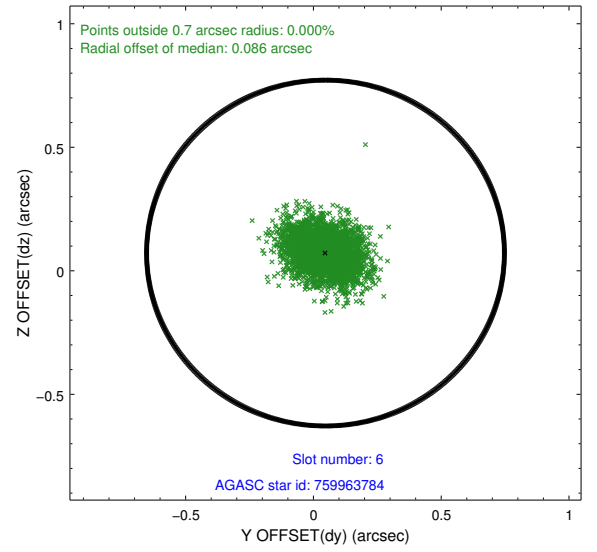
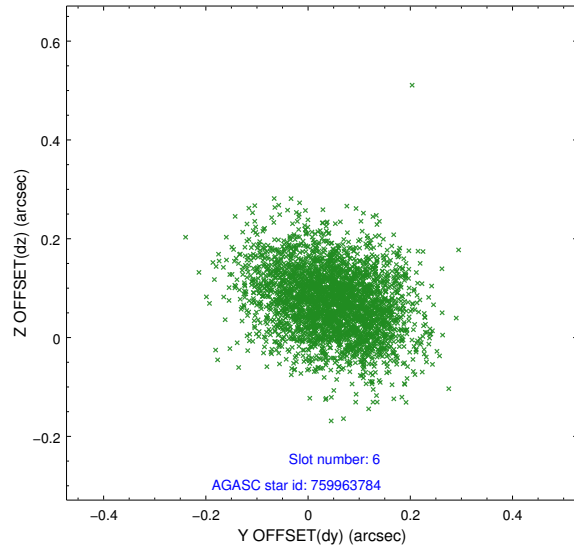
2.4.3 Slot 4



2.4.4 Slot 5

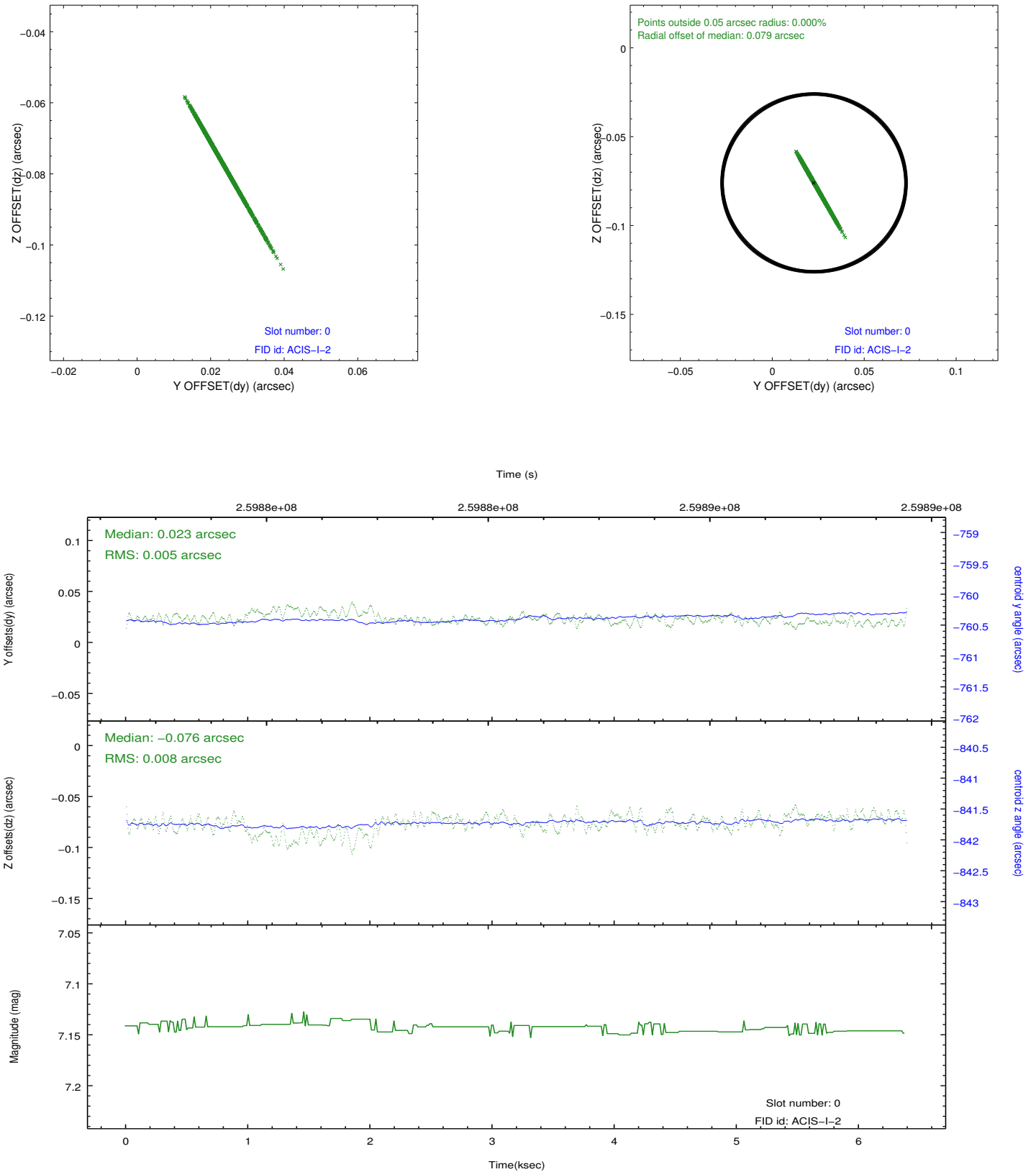


2.4.5 Slot 6

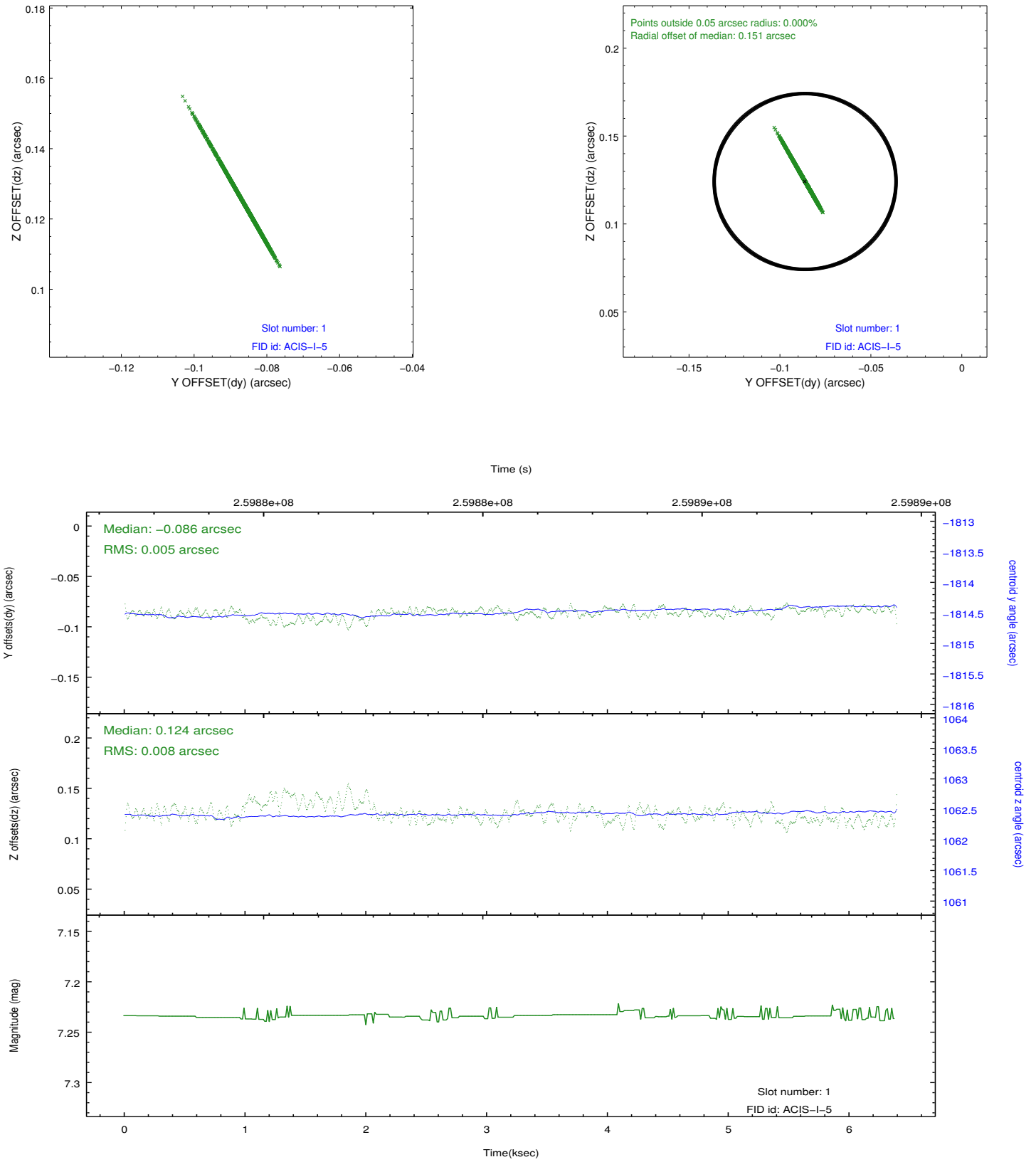


2.5 FID Slots

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	6.38820004

A.2 Comments

Window preference met.

Slot 7 was not utilized in this observation.