

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1650 - L2 Version 3
Chandra X-Ray Center

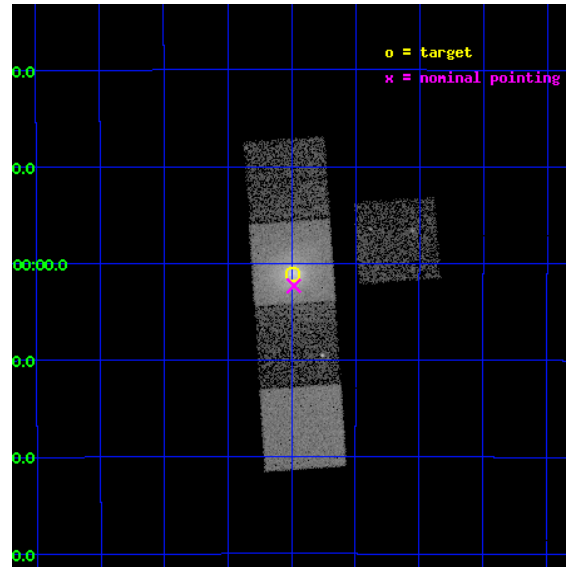
L2 Processing Date : Sep 17 2012

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 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

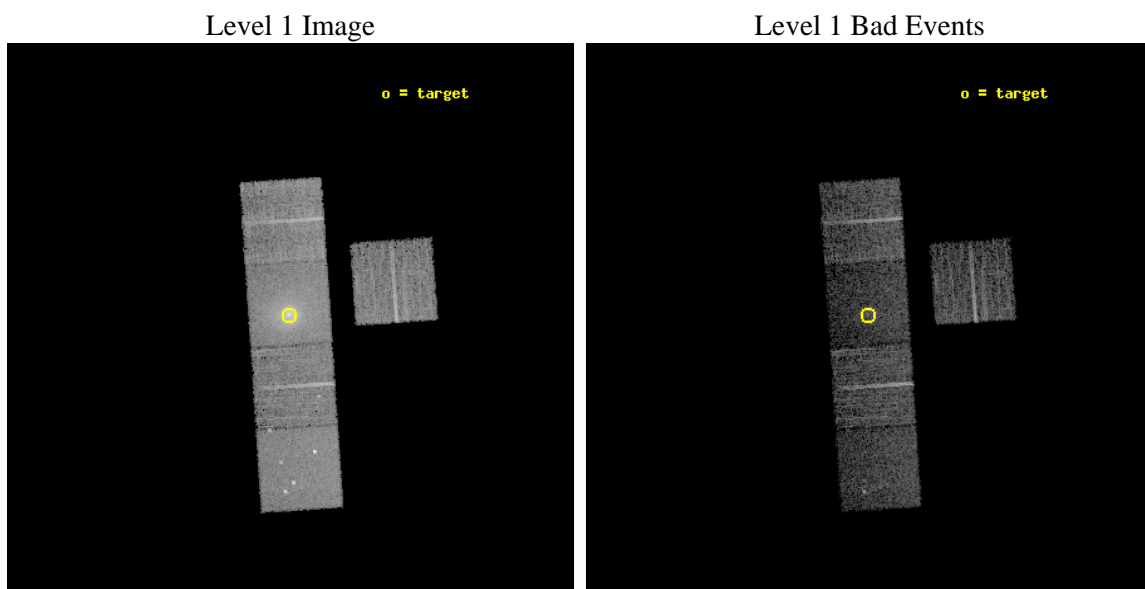
seq_num	800118	Sequence number
obs_id	1650	Observation id
title	THE COOLING FLOW IN PKS1404-267	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	PKS1404-257	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.874108	Observer's specified target RA [deg]
dec_targ	-27.018083	Observer's specified target Dec [deg]
ra_nom	211.87062239642	Nominal RA [deg]
dec_nom	-27.038733886645	Nominal Dec [deg]
roll_nom	266.16368042844	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7260.1999860406	Sum of GTIs [s]
livetime	7165.3401283415	Livetime [s]
ontime3	7257.0590058863	Sum of GTIs [s]
ontime5	7260.1999860406	Sum of GTIs [s]
ontime6	7260.1999860406	Sum of GTIs [s]
ontime7	7260.1999860406	Sum of GTIs [s]
ontime8	7260.1999860406	Sum of GTIs [s]
l2events	88922	Number of level 2 events



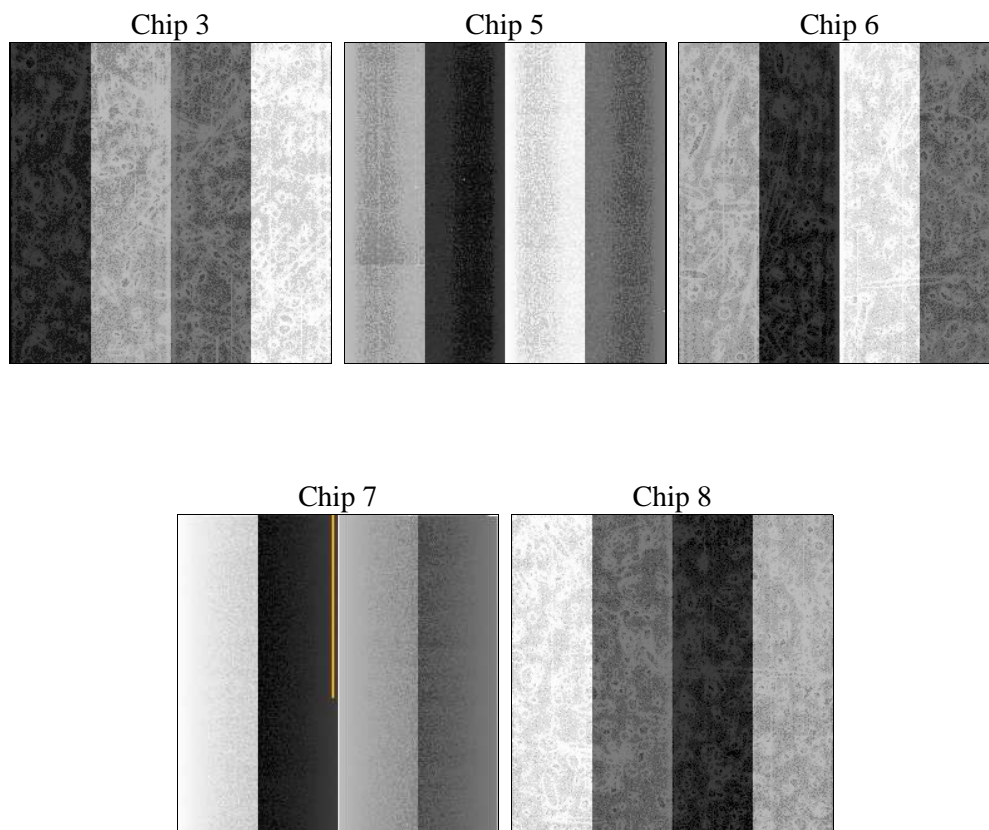
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7260.1999860406	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime3	7257.0590058863	Sum of GTIs [s]
date	2012-09-17T17:58:52	Date and time of file creation	ontime5	7260.1999860406	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7260.1999860406	Sum of GTIs [s]
			ontime7	7260.1999860406	Sum of GTIs [s]
			ontime8	7260.1999860406	Sum of GTIs [s]
			l1events	274938	Number of level 1 events

2.1.4 Events

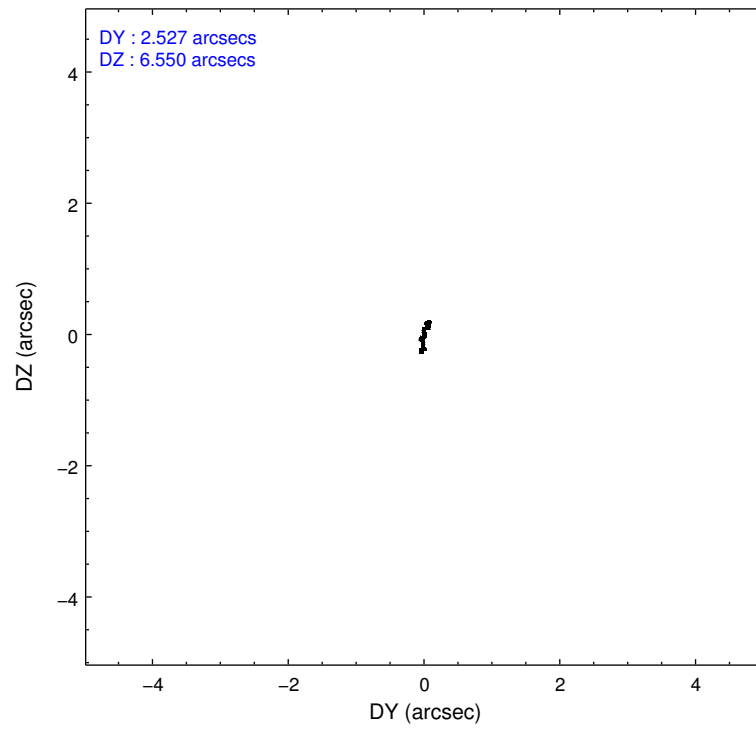
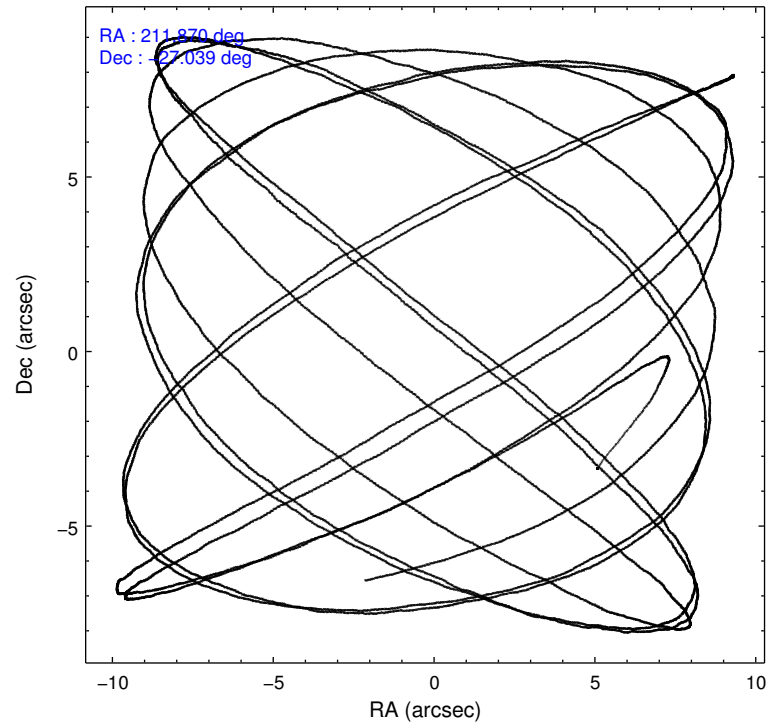
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43050	55762	44984	76437	54705
rejected events	38711	27377	38608	25352	42497
rejected %	89%	49%	85%	33%	77%

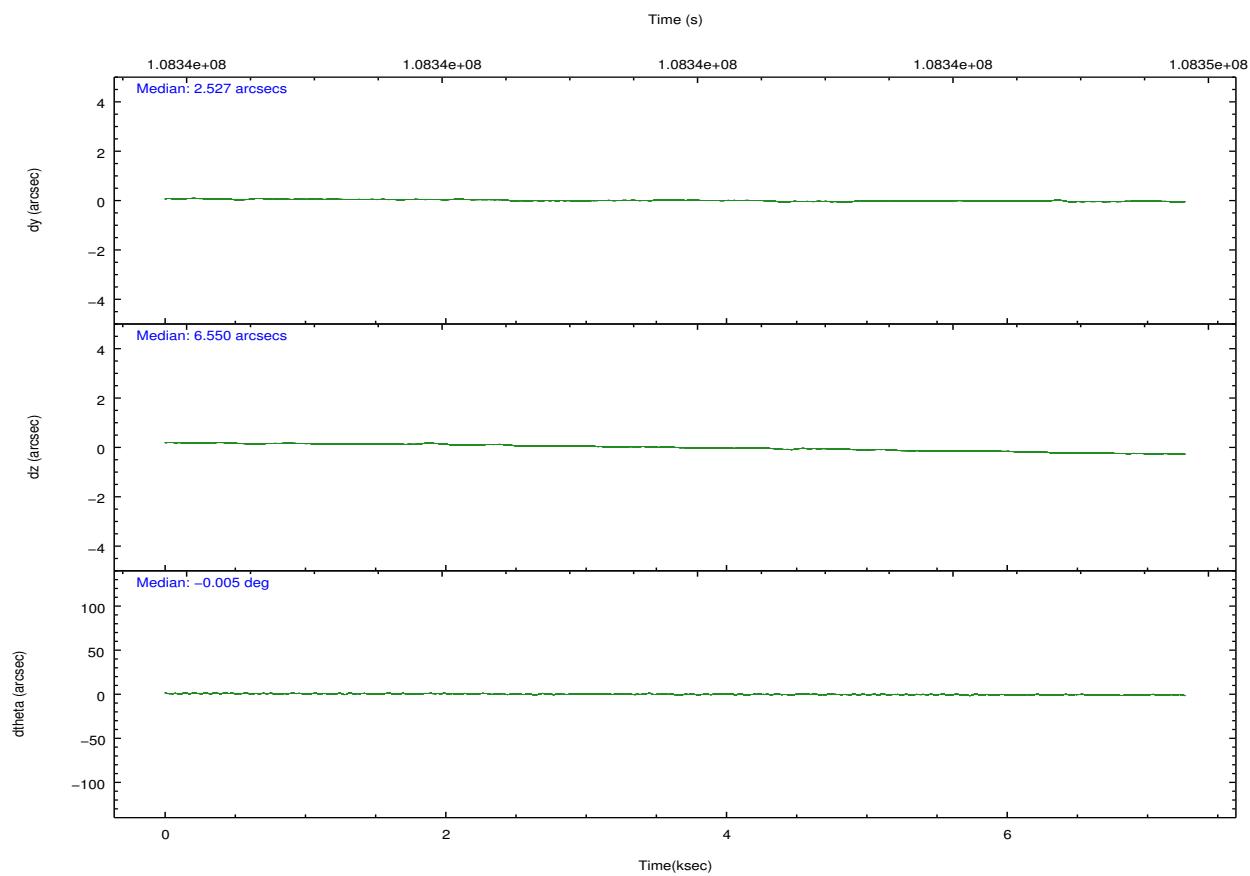
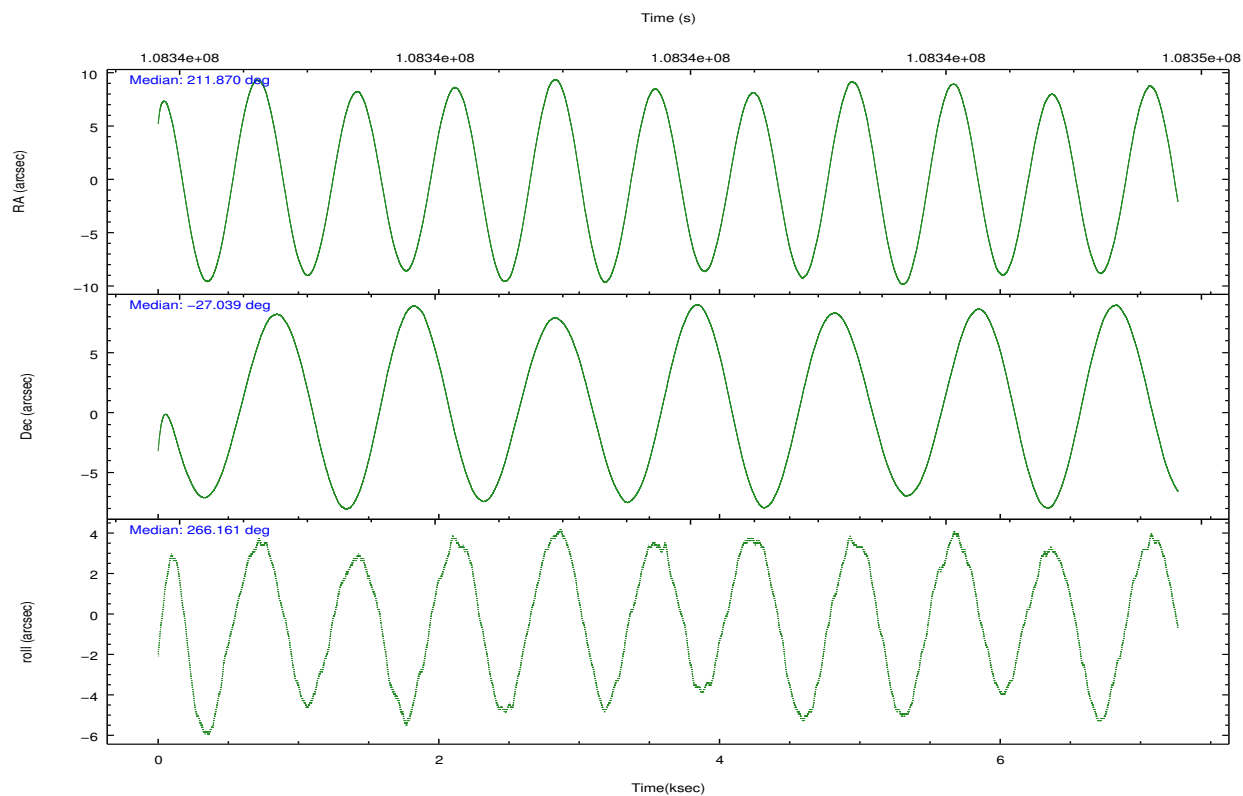
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2016	5738	3601	12677	4458
	4%	10%	8%	16%	8%
grade 1 events	23	58	22	55	31
	0%	0%	0%	0%	0%
grade 2 events	820	7675	1040	12619	2556
	1%	13%	2%	16%	4%
grade 3 events	464	1388	531	5698	1360
	1%	2%	1%	7%	2%
grade 4 events	453	1332	565	5820	1221
	1%	2%	1%	7%	2%
grade 5 events	1391	4246	1448	4845	2058
	3%	7%	3%	6%	3%
grade 6 events	737	13265	853	15648	3094
	1%	23%	1%	20%	5%
grade 7 events	37146	22060	36924	19075	39927
	86%	39%	82%	24%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	211.856770	211.8706223964185	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.014330	-27.03873388664482	Alternating exposures requested	N	N
[deg] Pointing Roll	266.000760	266.1636804284381	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	108338358.184000	108337233.25384			
Observation start date	2001-06-07T21:58:14	2001-06-07T21:40:33			
[s] Observation end time (MET)	108345458.184000	108345845.81668			
Observation end date	2001-06-07T23:56:34	2001-06-08T00:04:05			
Read mode	TIMED	TIMED			

2.3 Aspect



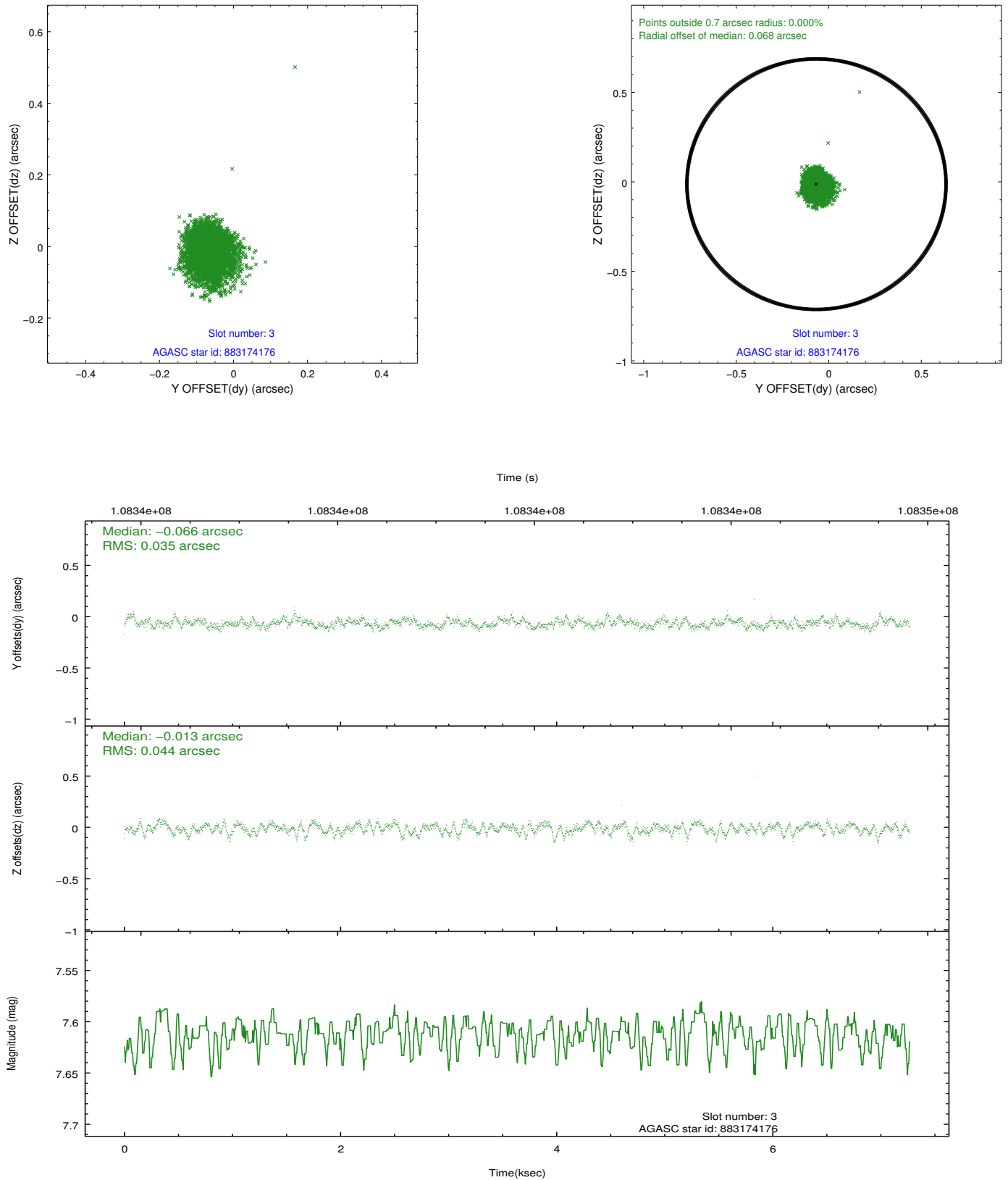


Slot Statistics

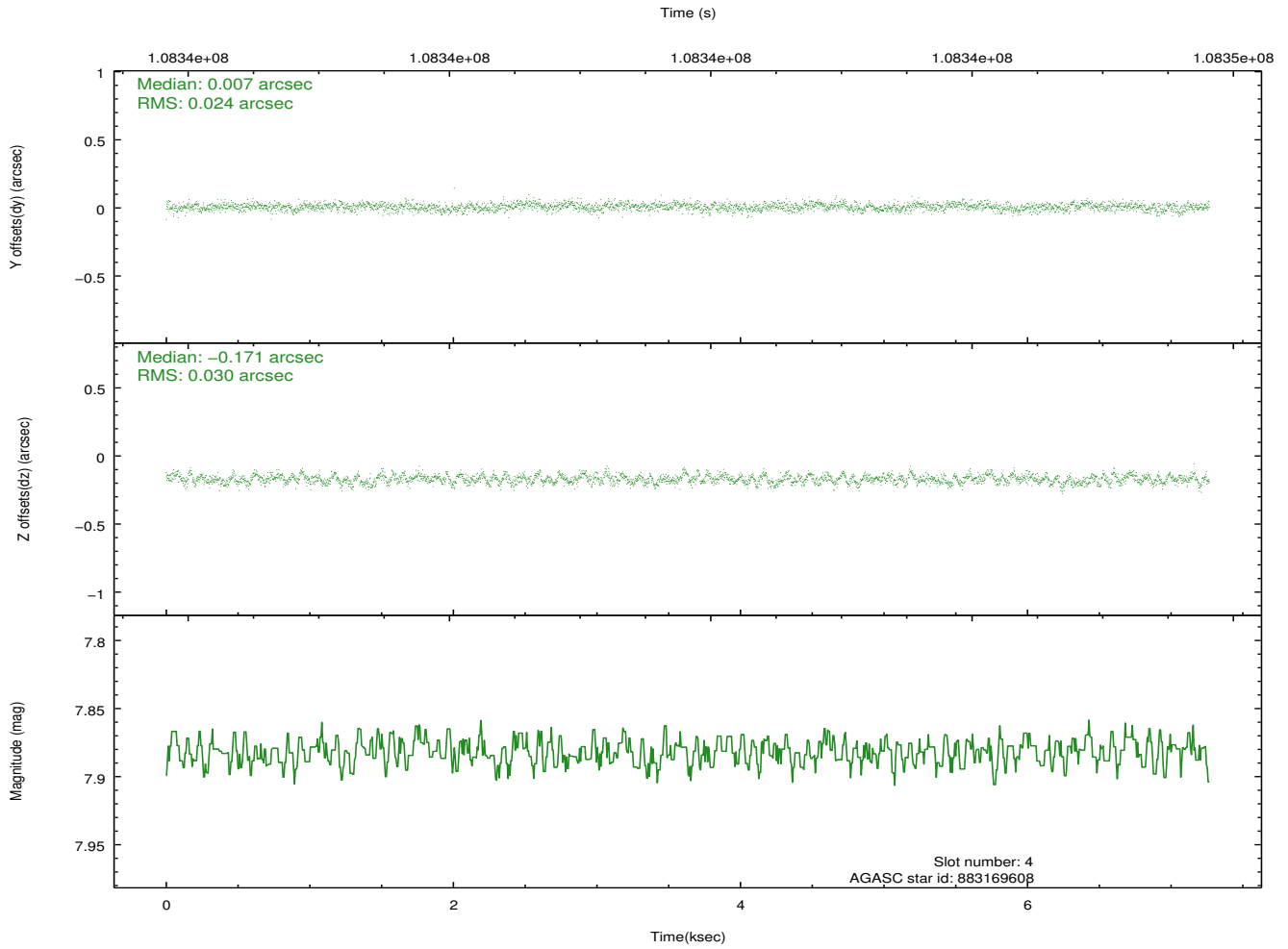
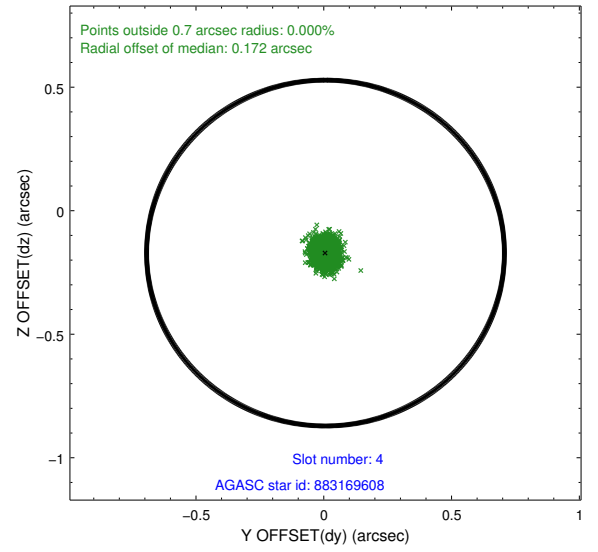
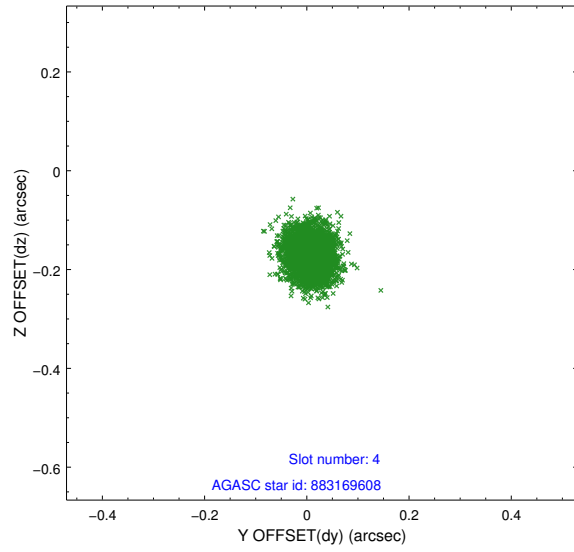
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1773	-0.024	0.000	0.007	0.012	0.000000	0.000000	-755.16	-1727.70
1	FID	ACIS-S-4	7.19	1773	-0.039	0.011	0.006	0.011	0.000000	0.000000	2157.72	180.02
2	FID	ACIS-S-5	7.23	1772	0.031	-0.003	0.007	0.012	0.000000	0.000000	-1806.96	174.52
3	GUIDE	883174176	7.61	3546	-0.066	-0.013	0.059	0.093	211.579284	-26.579300	-1499.94	-999.43
4	GUIDE	883169608	7.88	3546	0.007	-0.171	0.040	0.067	211.938186	-26.978353	-148.70	252.09
5	GUIDE	883163272	8.15	3546	0.023	0.038	0.064	0.102	212.456361	-27.380857	1186.16	2005.58
6	GUIDE	883167416	8.67	3545	0.079	0.065	0.056	0.093	212.084758	-27.703933	2425.98	899.87
7	GUIDE	883171600	8.27	3545	-0.041	0.081	0.061	0.104	212.140766	-26.653097	-1360.28	822.29

2.4 Star Slots

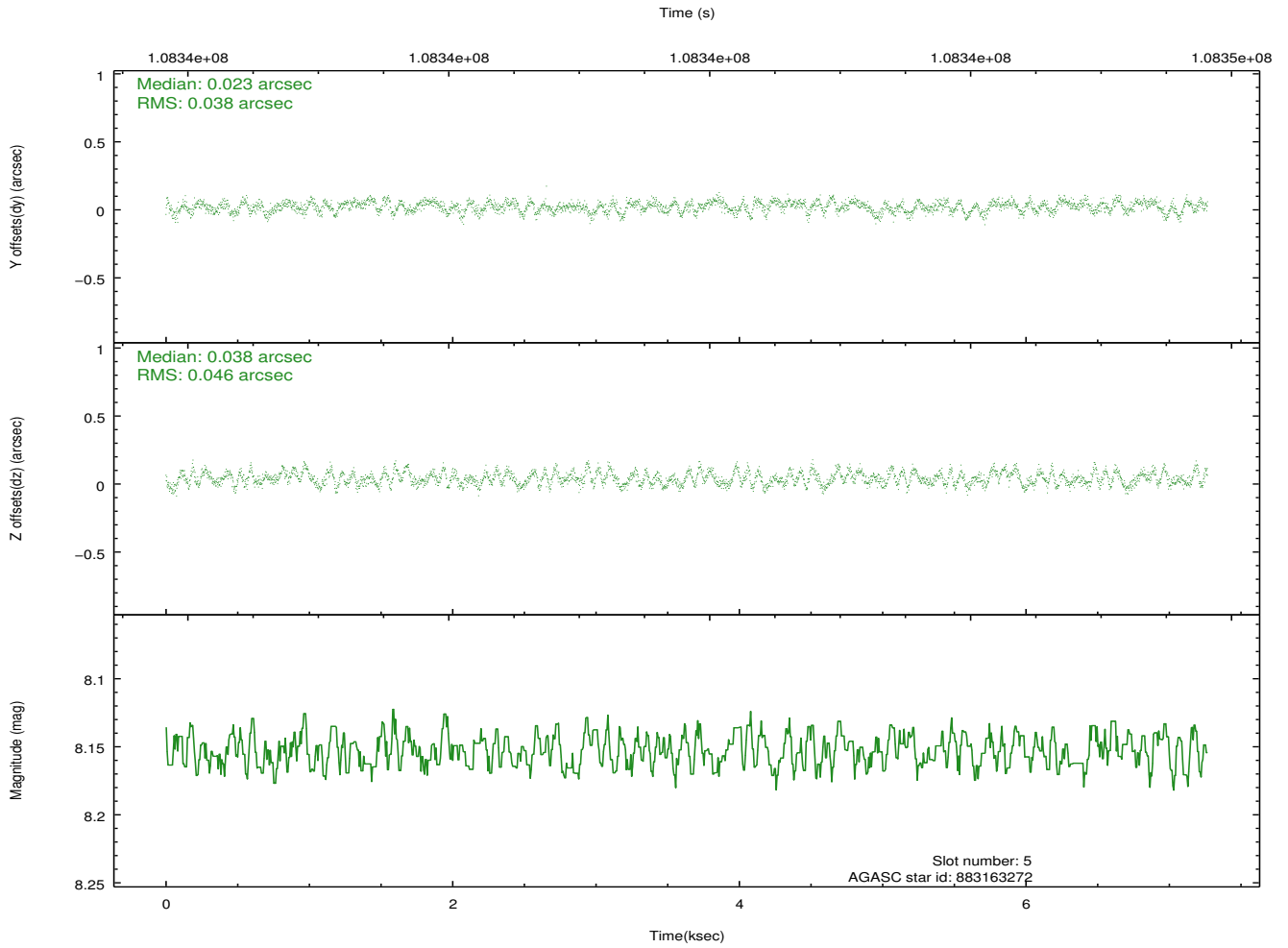
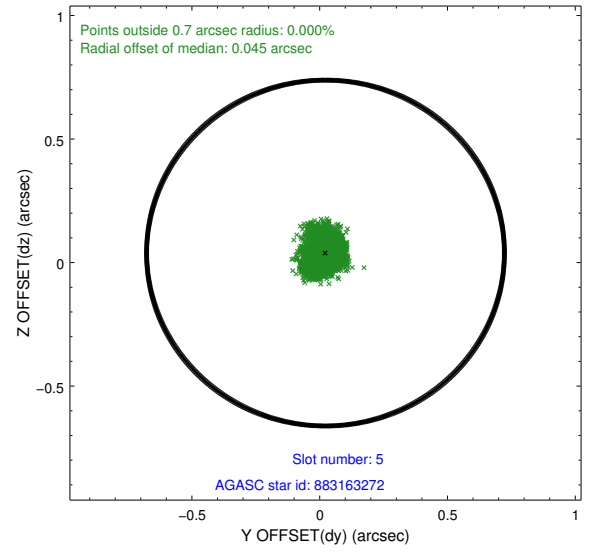
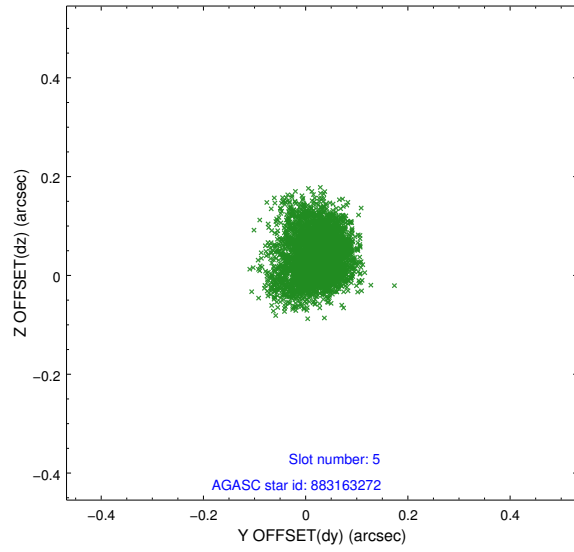
2.4.1 Slot 3



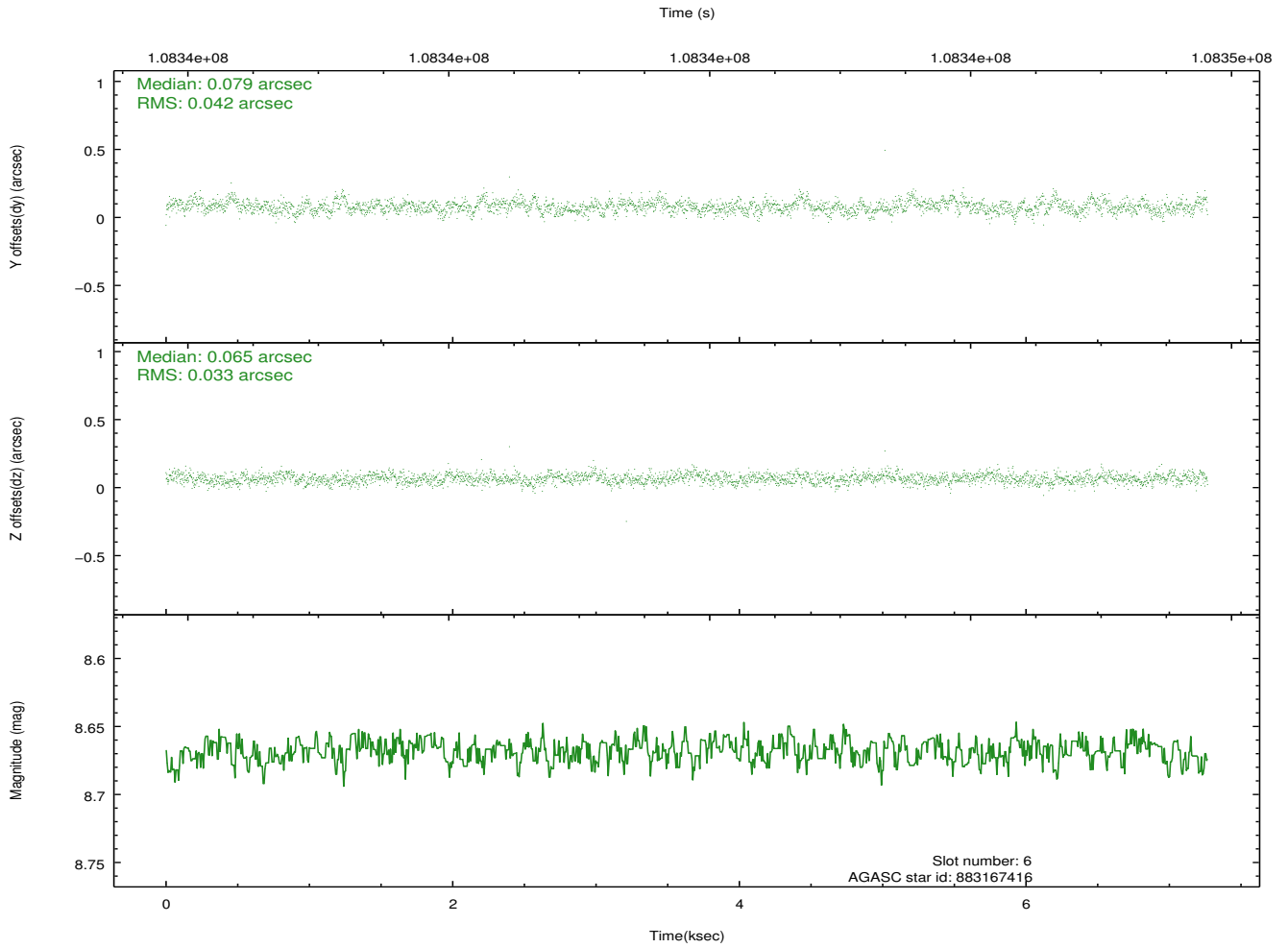
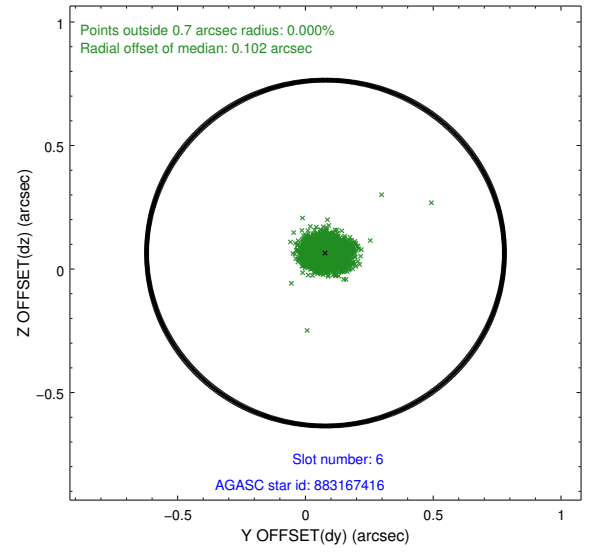
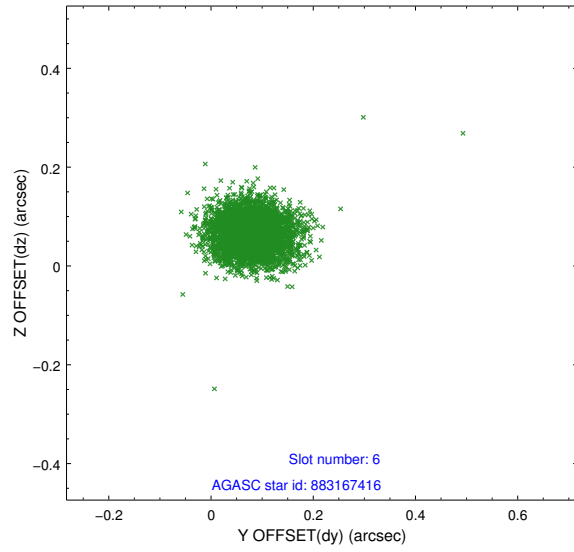
2.4.2 Slot 4



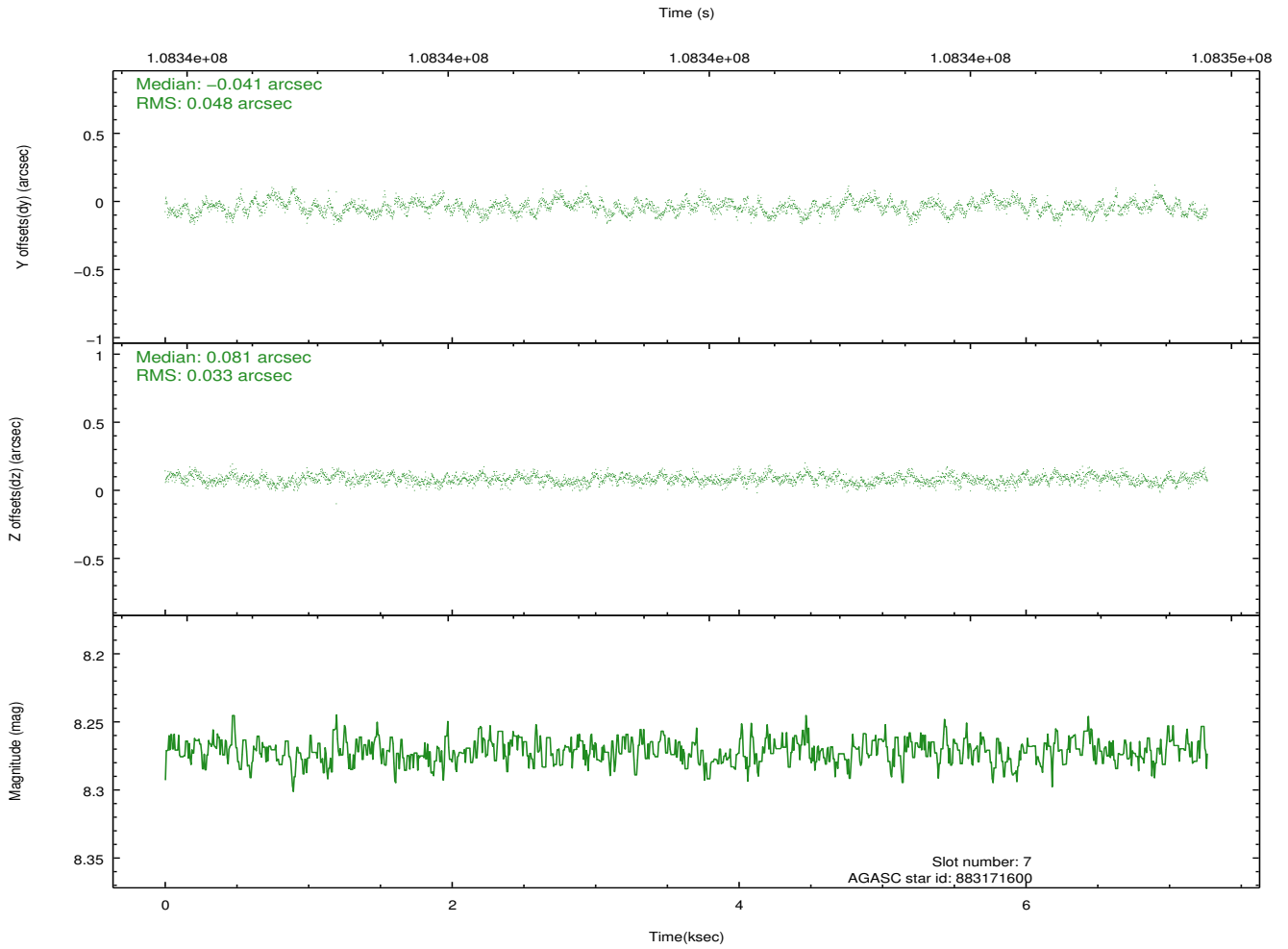
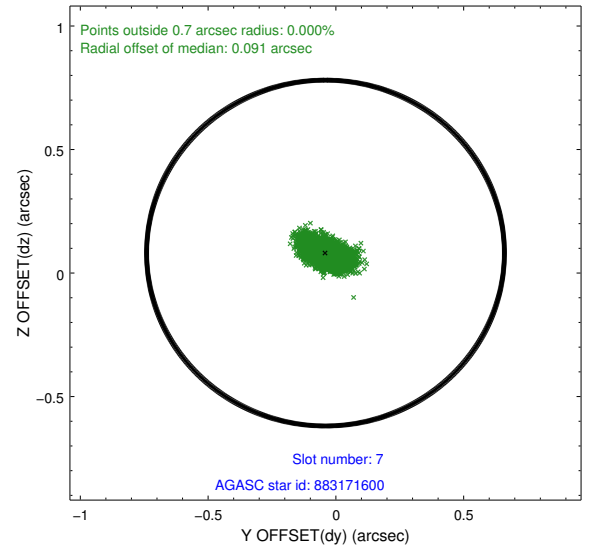
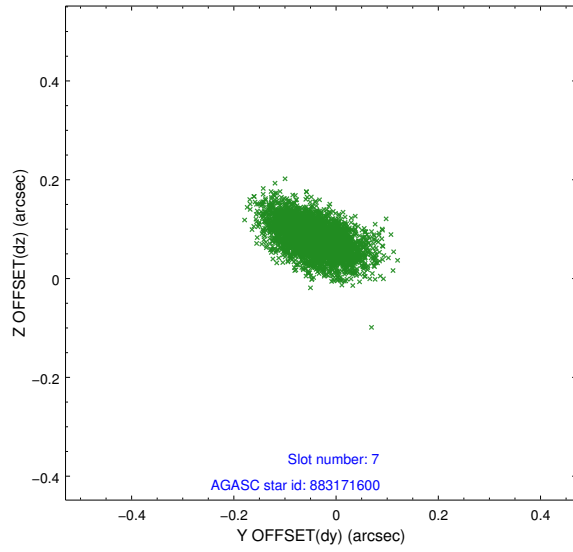
2.4.3 Slot 5



2.4.4 Slot 6

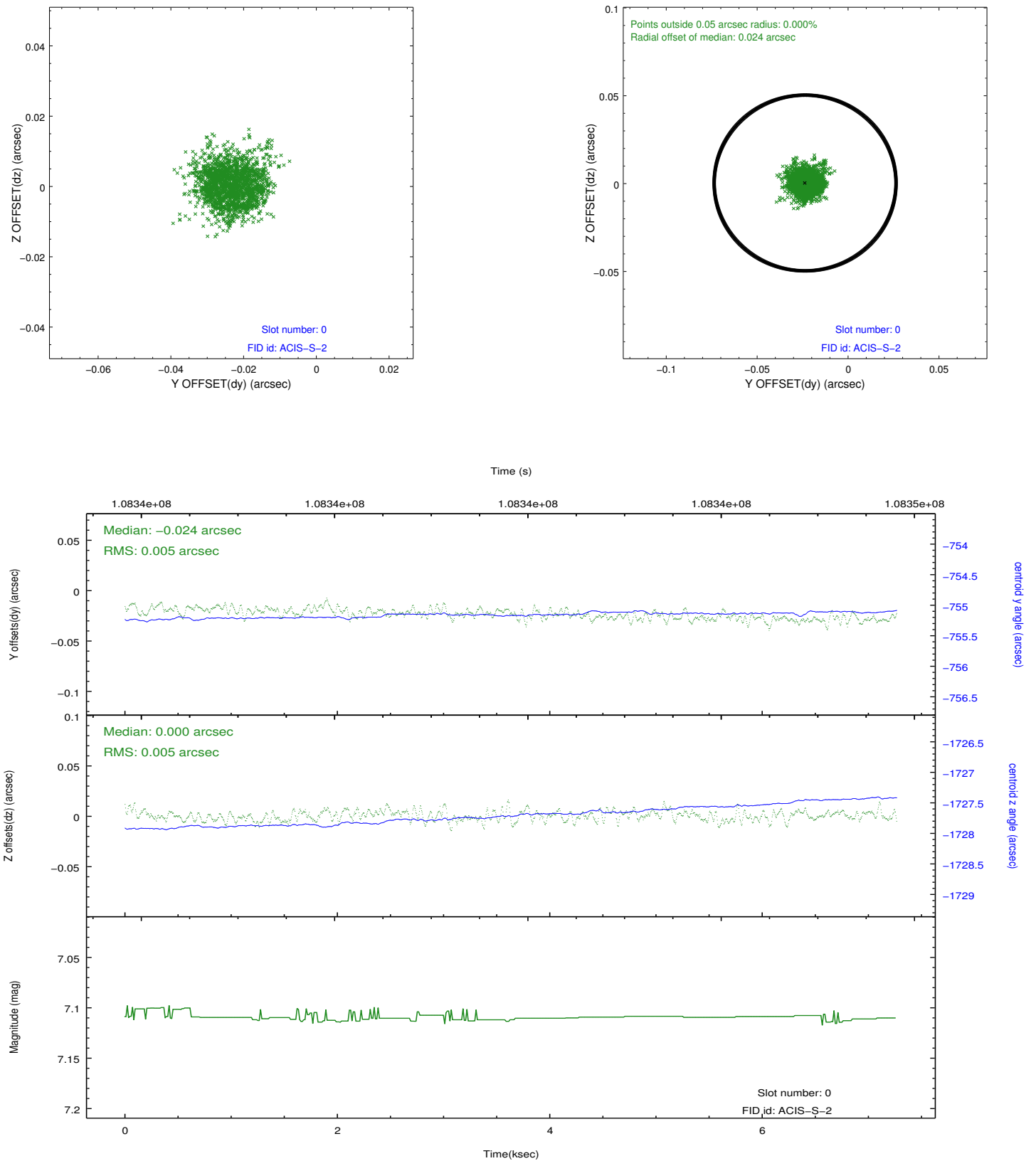


2.4.5 Slot 7

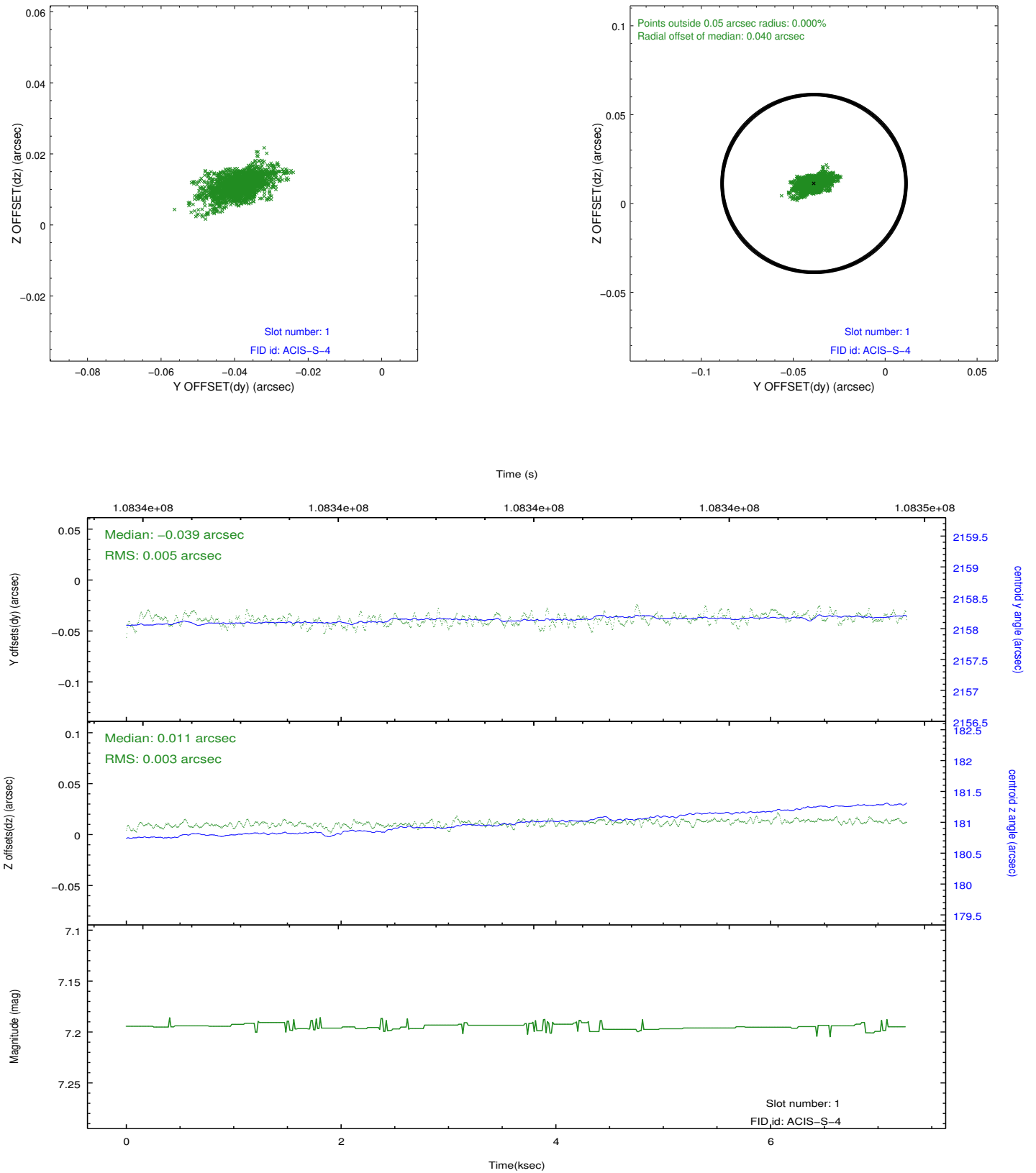


2.5 FID Slots

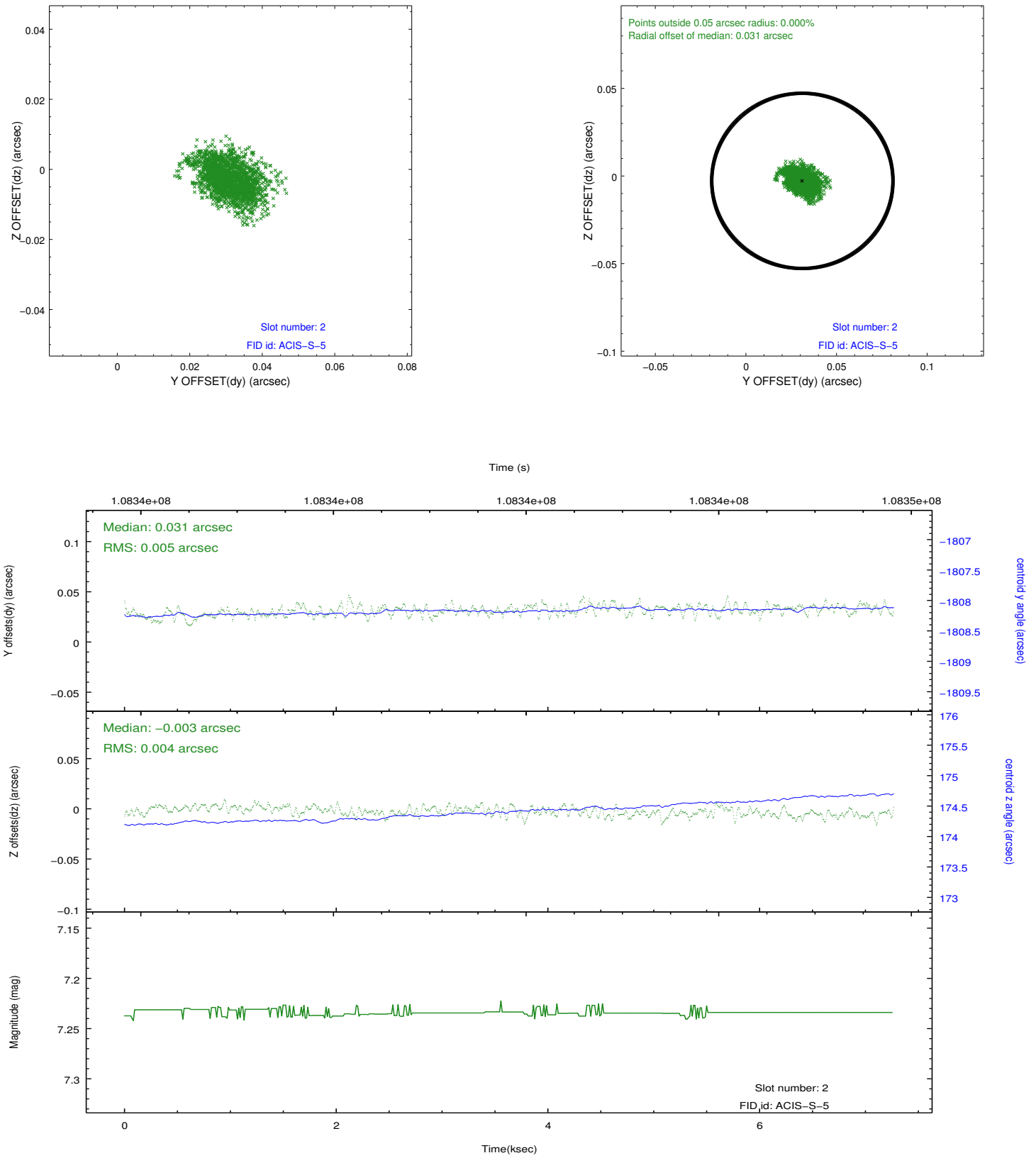
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.26

A.2 Comments