

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18917 - L2 Version 1
Chandra X-Ray Center

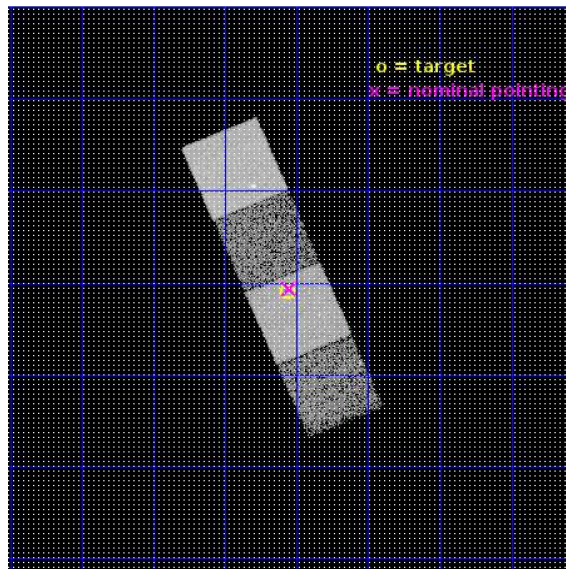
L2 Processing Date : Feb 18 2017

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

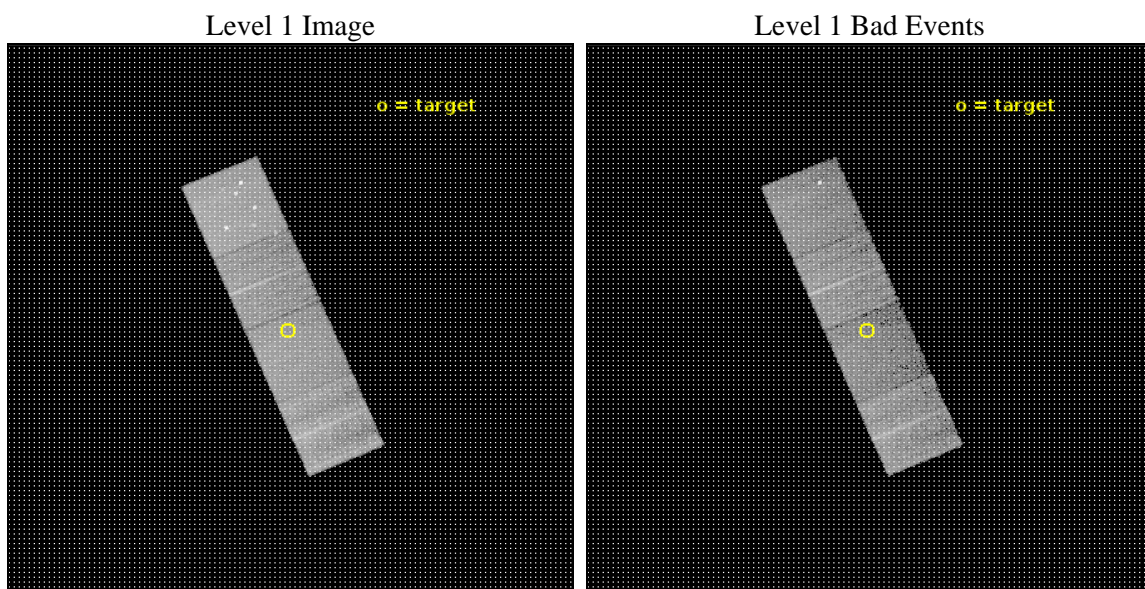
seq_num	201110	Sequence number
obs_id	18917	Observation id
title	Direct Detection of Accreting White Dwarf Pollutants	Proposal titl
observer	Saul Rappaport	Principal investigator
object	WD 1145+017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.14	Observer's specified target RA [deg]
dec_targ	1.483139	Observer's specified target Dec [deg]
ra_nom	177.13746391368	Nominal RA [deg]
dec_nom	1.4893690387424	Nominal Dec [deg]
roll_nom	67.029998759273	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10561.700081348	Sum of GTIs [s]
livetime	10423.703694375	Livetime [s]
ontime5	10561.700081348	Sum of GTIs [s]
ontime6	10561.700081348	Sum of GTIs [s]
ontime7	10561.700081348	Sum of GTIs [s]
ontime8	10561.700081348	Sum of GTIs [s]
l2events	99296	Number of level 2 events



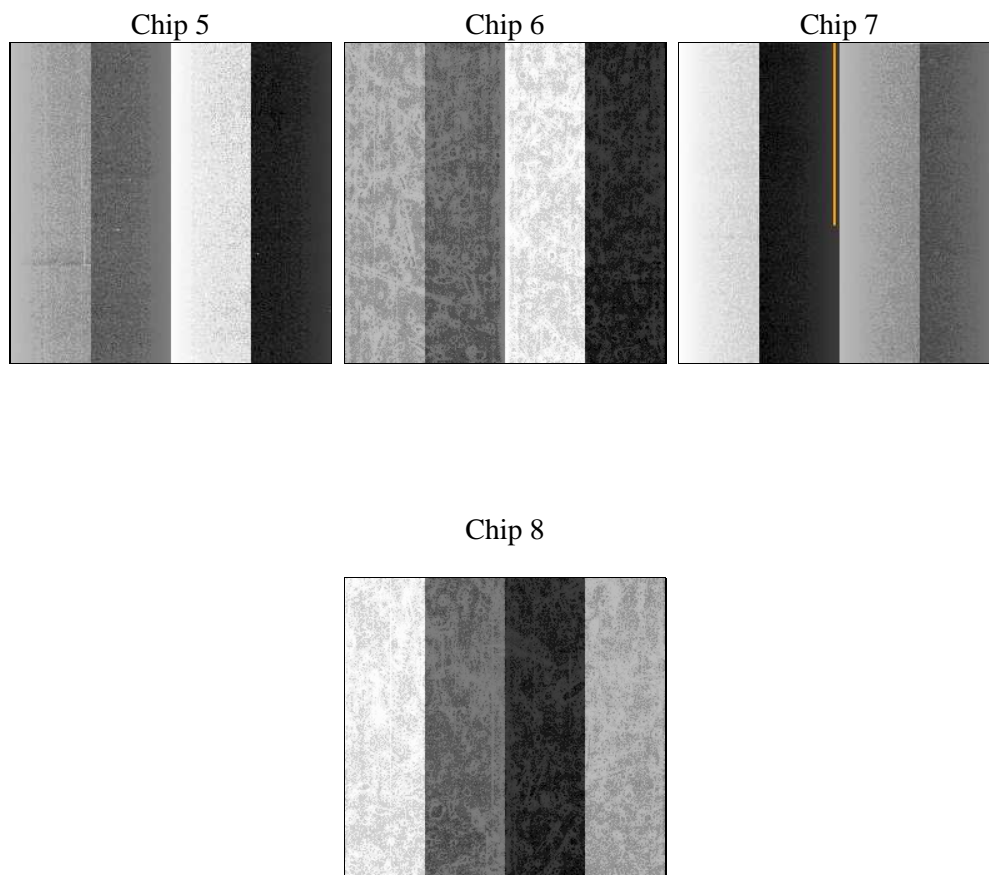
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10561.700081348	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	10561.700081348	Sum of GTIs [s]
date	2017-02-18T16:13:27	Date and time of file creation	ontime6	10561.700081348	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10561.700081348	Sum of GTIs [s]
			ontime8	10561.700081348	Sum of GTIs [s]
			l1events	350111	Number of level 1 events

2.1.4 Events

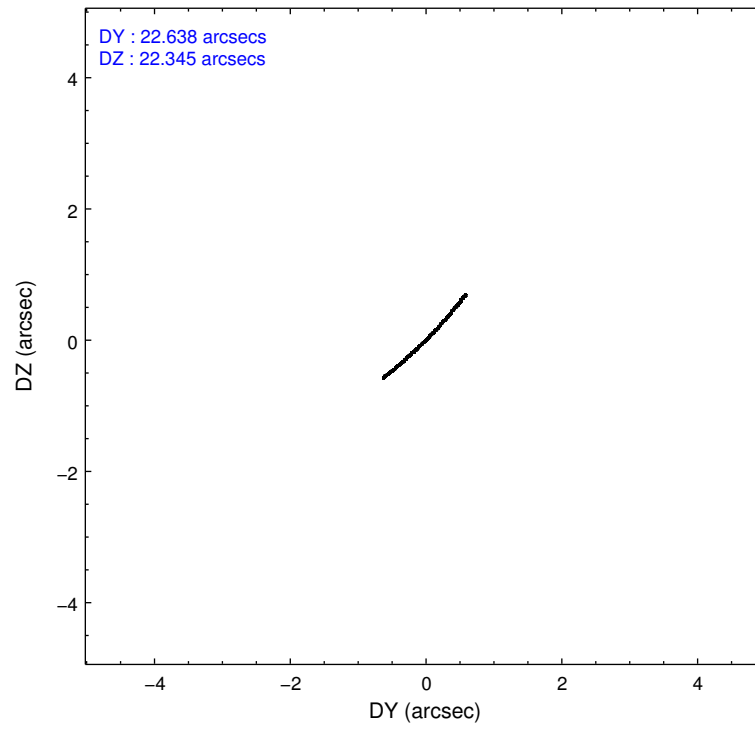
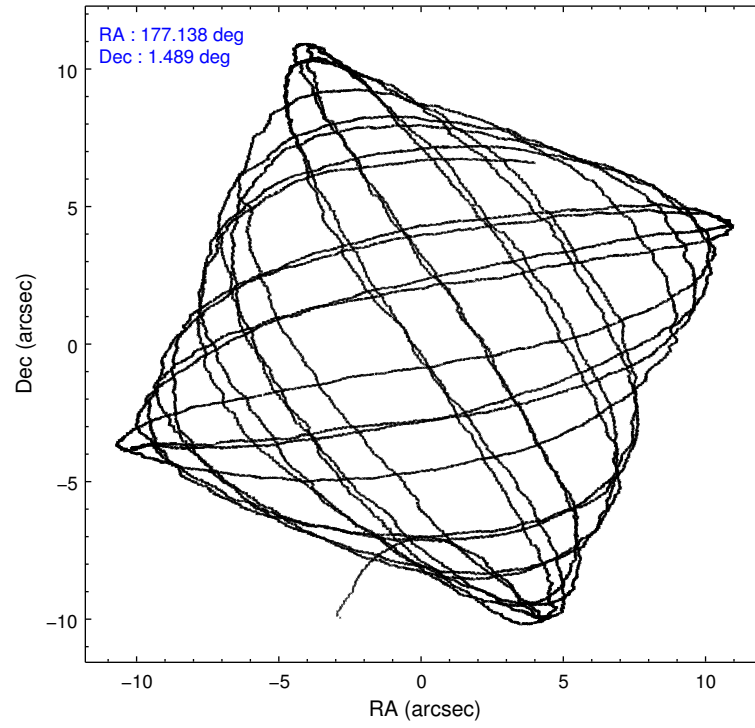
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	110553	70071	77157	92330
rejected events	51270	62246	40941	65407
rejected %	46%	88%	53%	70%

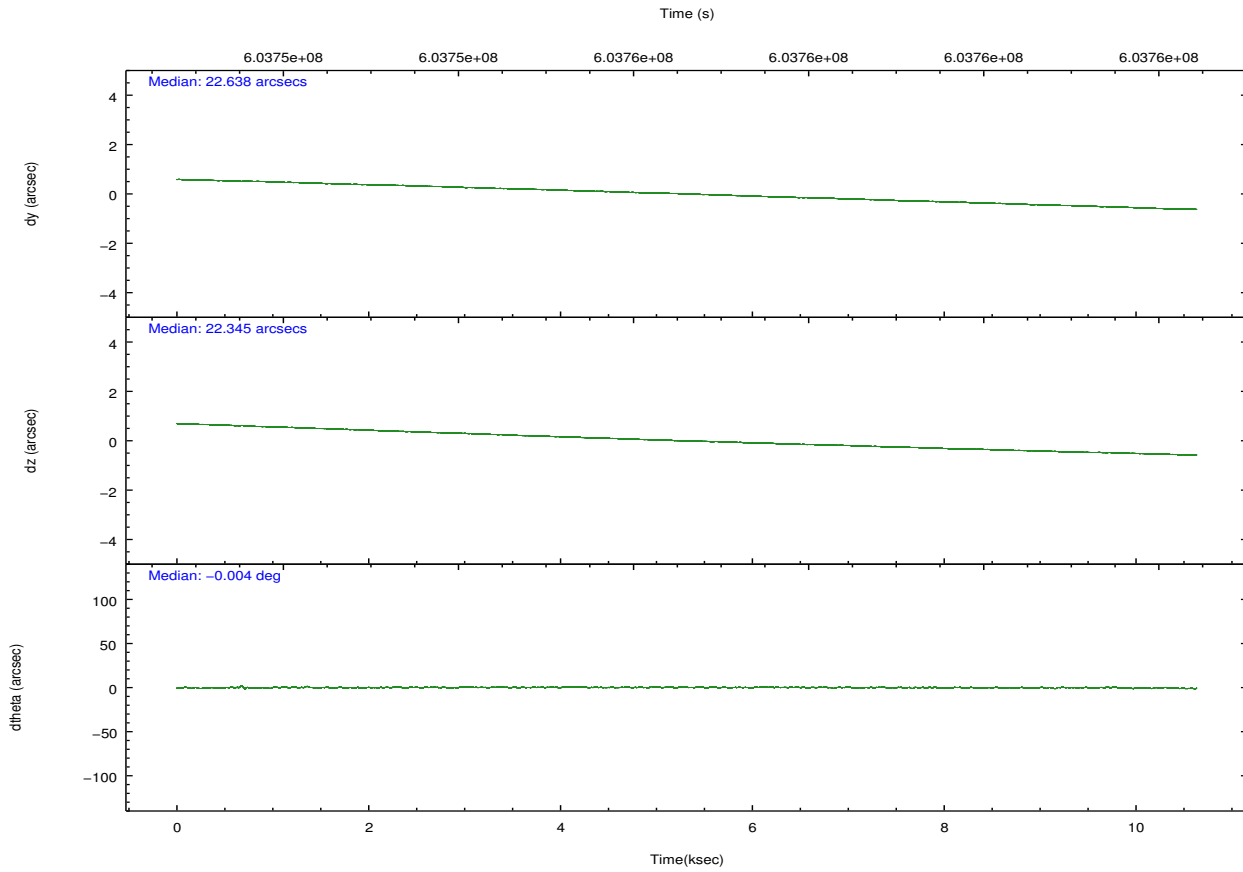
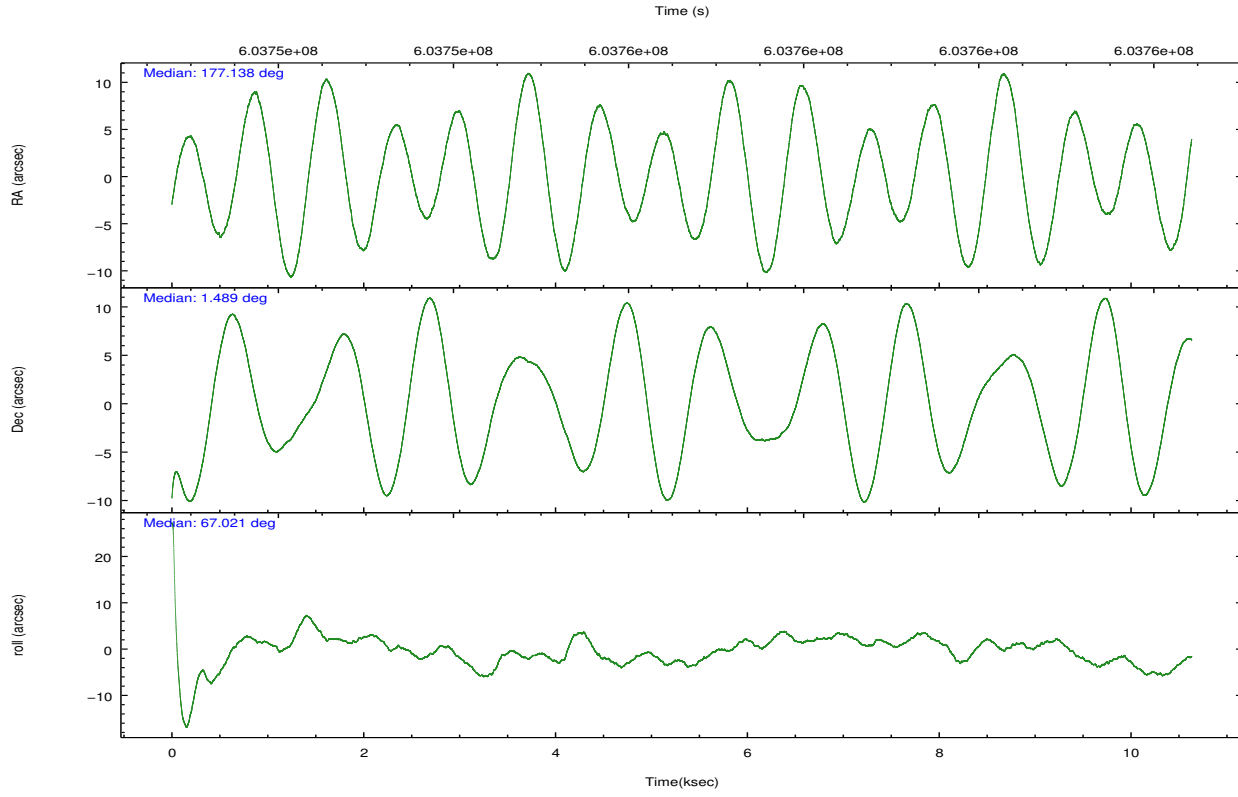
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10313	2678	3300	7219
	9%	3%	4%	7%
grade 1 events	321	39	114	81
	0%	0%	0%	0%
grade 2 events	17865	1842	7947	6900
	16%	2%	10%	7%
grade 3 events	2023	799	3039	2660
	1%	1%	3%	2%
grade 4 events	1814	758	3059	2599
	1%	1%	3%	2%
grade 5 events	7575	2877	7785	4498
	6%	4%	10%	4%
grade 6 events	27289	1750	18884	7548
	24%	2%	24%	8%
grade 7 events	43353	59328	33029	60825
	39%	84%	42%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	177.141218	177.1374639136794	CCD I2 on	N	N
[deg] Pointing Dec	1.462217	1.489369038742437	CCD I3 on	N	N
[deg] Pointing Roll	66.873219	67.02999875927263	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	O2	Y
[s] Observation start time (MET)	603751422.184000	603749663.09027	CCD S5 on	N	N
Observation start date	2017-02-17T20:42:33	2017-02-17T20:14:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	603761922.184000	603762835.36604	On-chip summing requested	N	N
Observation end date	2017-02-17T23:37:33	2017-02-17T23:53:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



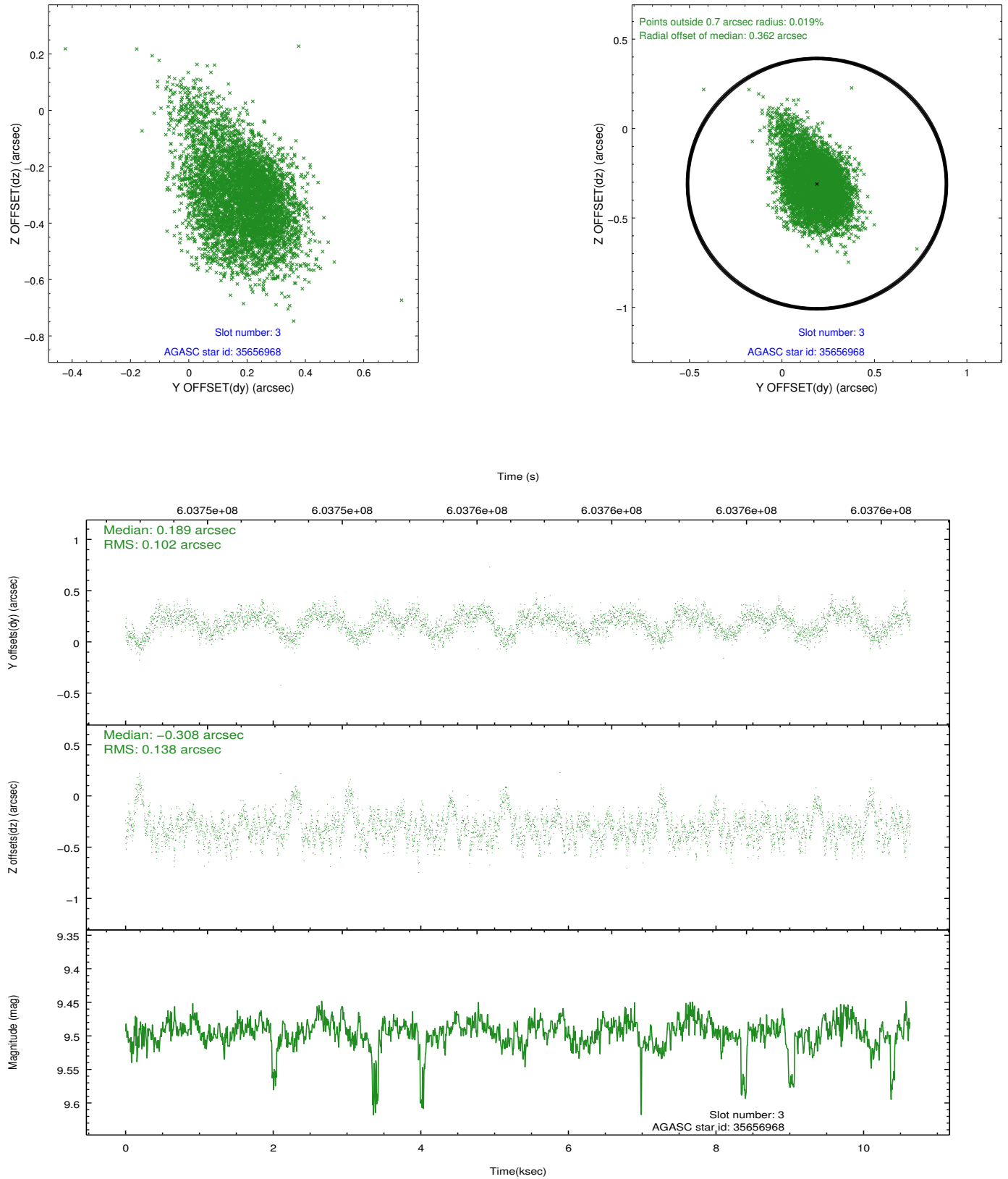


Slot Statistics

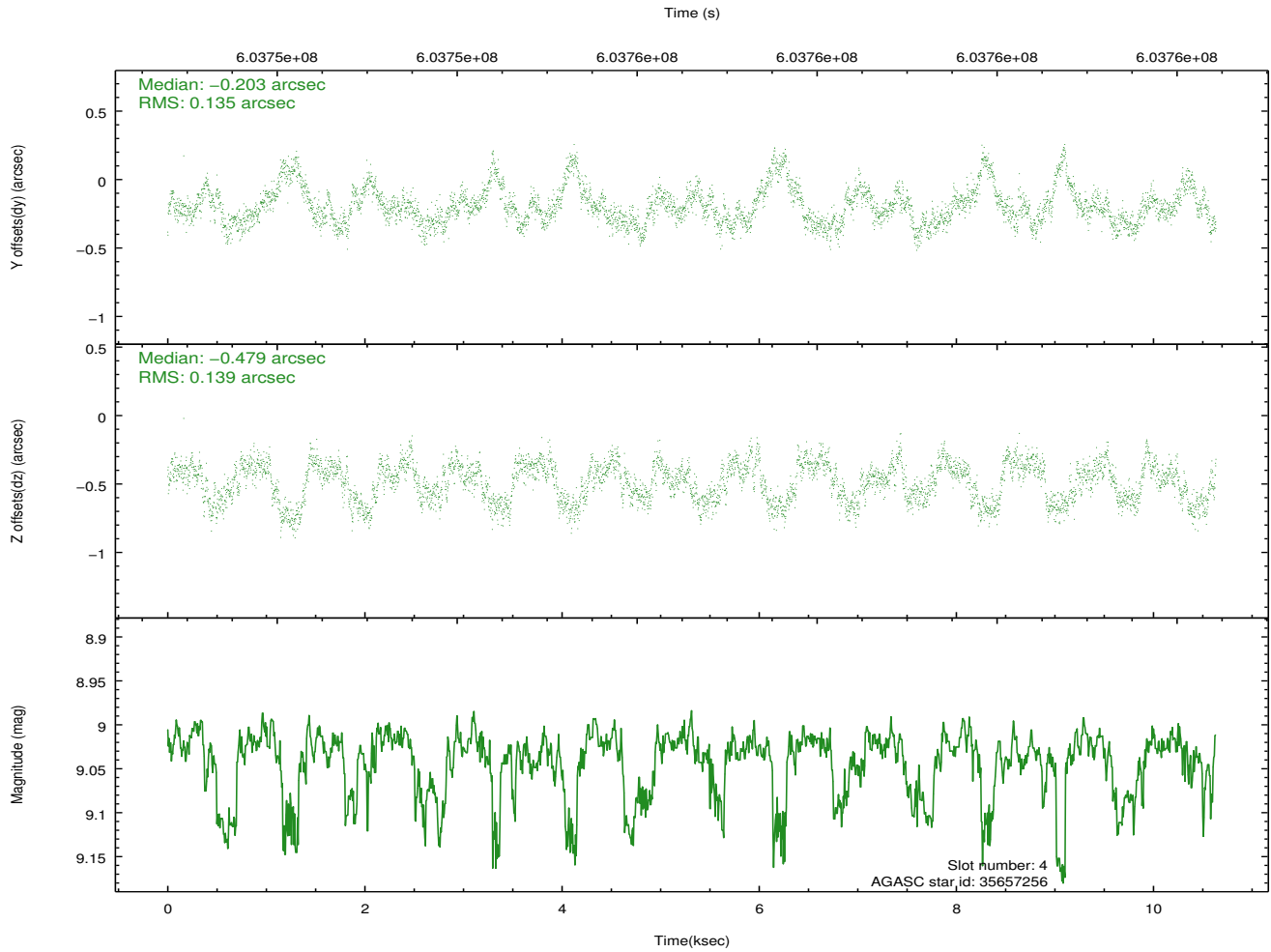
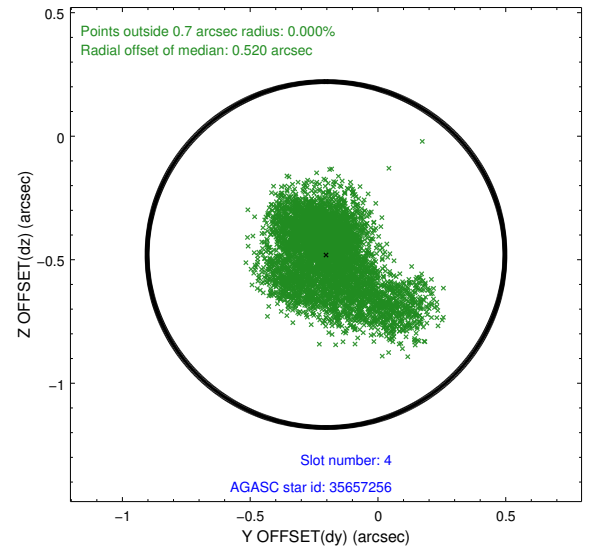
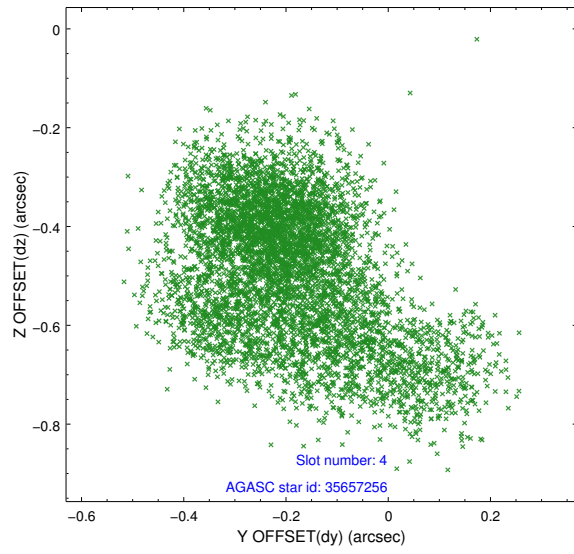
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	2594	-0.217	-0.145	0.008	0.013	0.000000	0.000000	-776.02	-1744.09
1	FID		ACIS-S-4	7.13	2594	0.516	0.144	0.016	0.027	0.000000	0.000000	2137.76	164.18
2	FID		ACIS-S-5	7.14	2594	-0.333	0.010	0.014	0.022	0.000000	0.000000	-1828.36	158.26
3	GUIDE	used	35656968	9.49	5180	0.189	-0.308	0.174	0.310	176.560047	1.542359	-555.58	2037.79
4	GUIDE	used	35657256	9.03	5181	-0.203	-0.479	0.198	0.359	176.857006	2.013332	1423.18	1720.95
5	GUIDE	used	35658416	7.86	5184	-0.342	0.047	0.096	0.162	176.725004	1.604214	-117.85	1578.92
6	GUIDE	used	35786024	9.49	5179	0.004	-0.074	0.305	0.471	177.790022	1.785804	1988.89	-1687.57
7	GUIDE	used	35788008	9.38	5186	0.346	0.781	0.151	0.237	177.612047	1.006805	-840.40	-2201.80

2.4 Star Slots

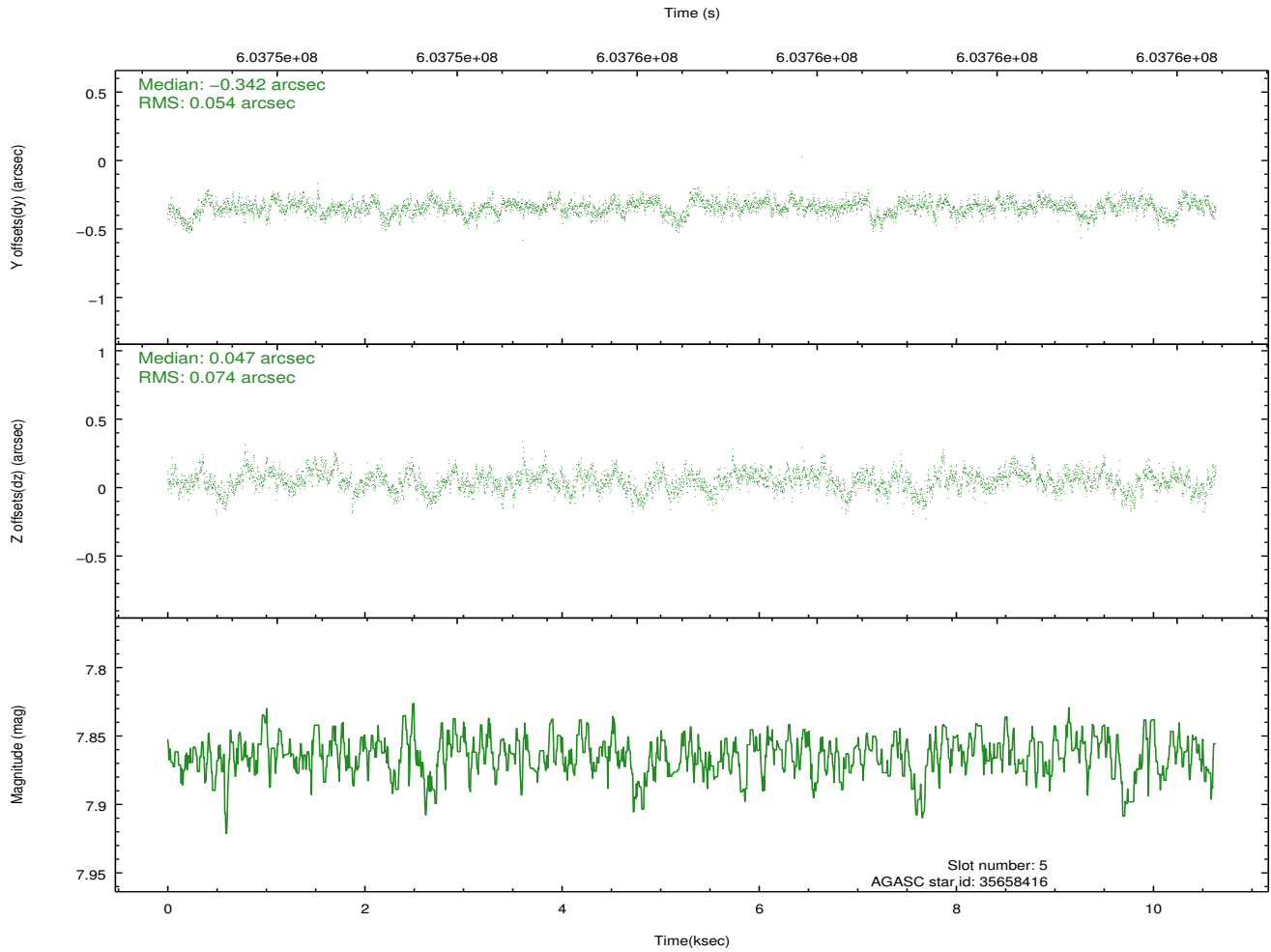
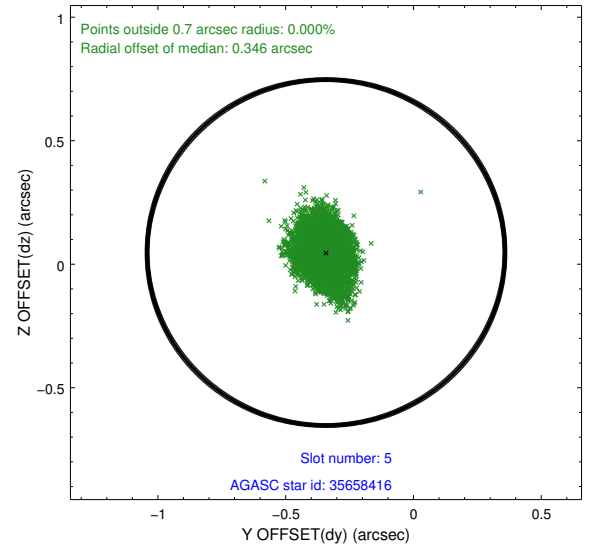
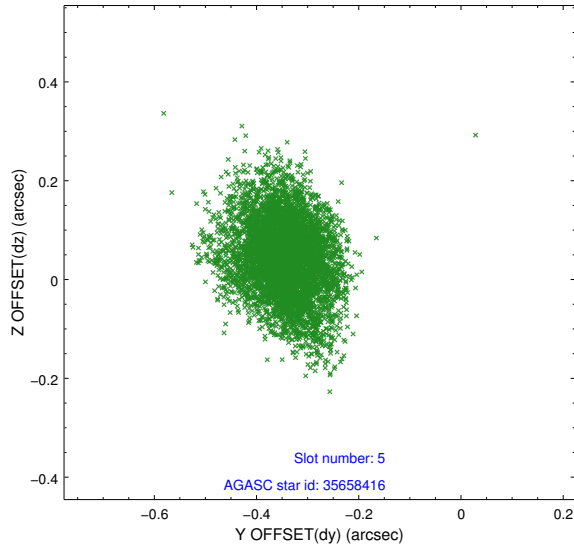
2.4.1 Slot 3



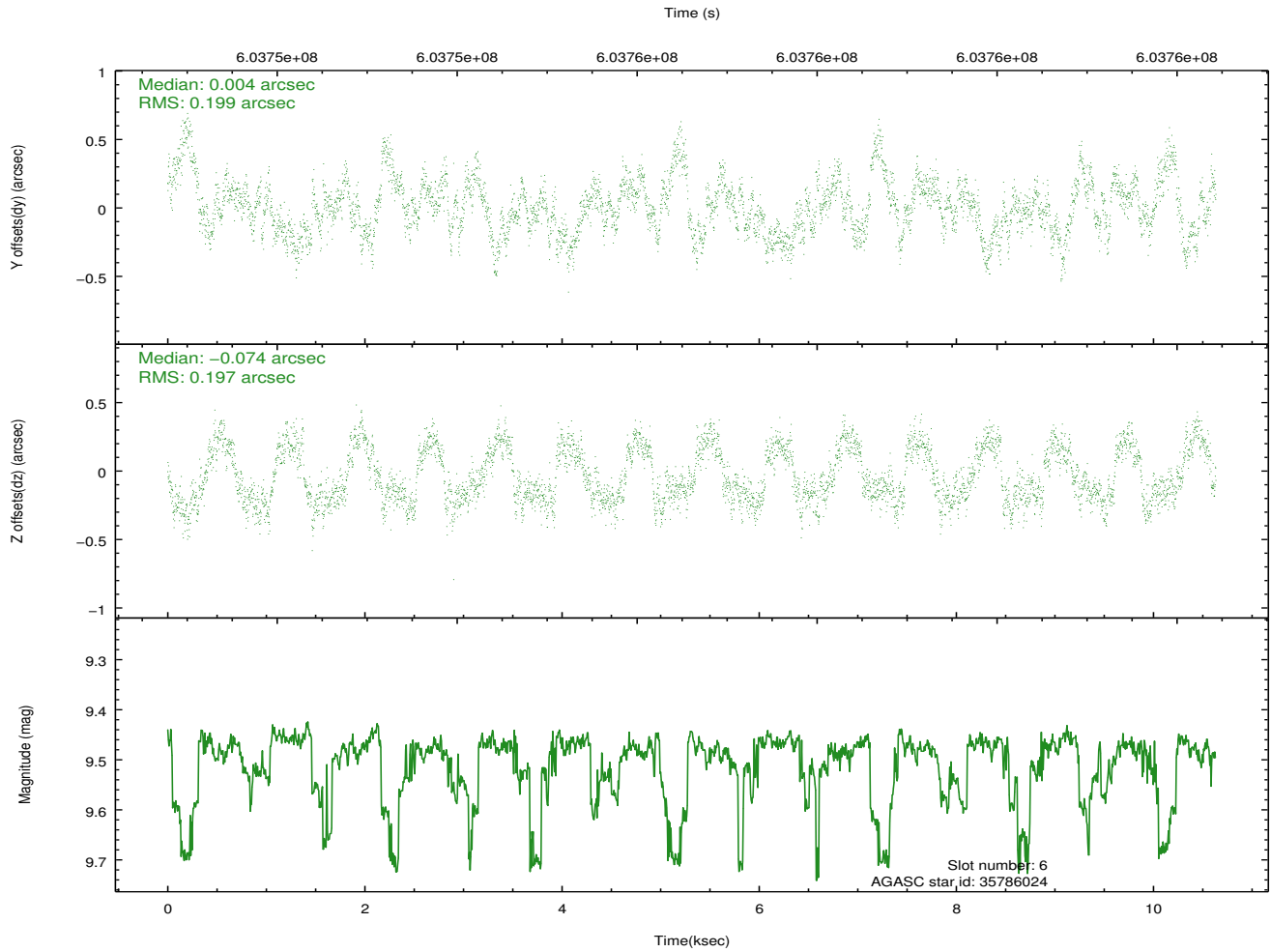
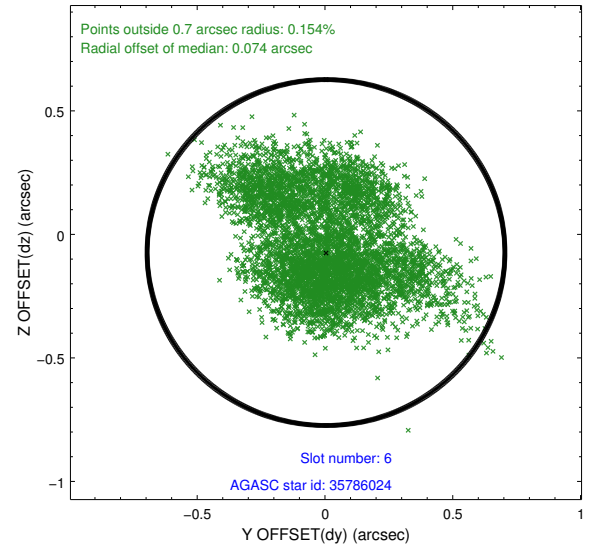
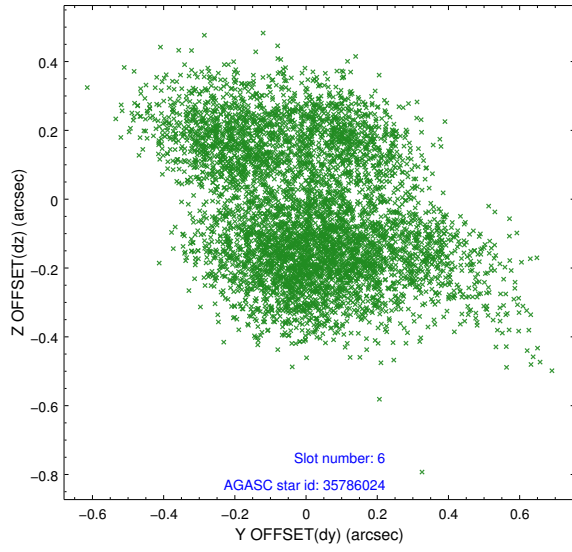
2.4.2 Slot 4



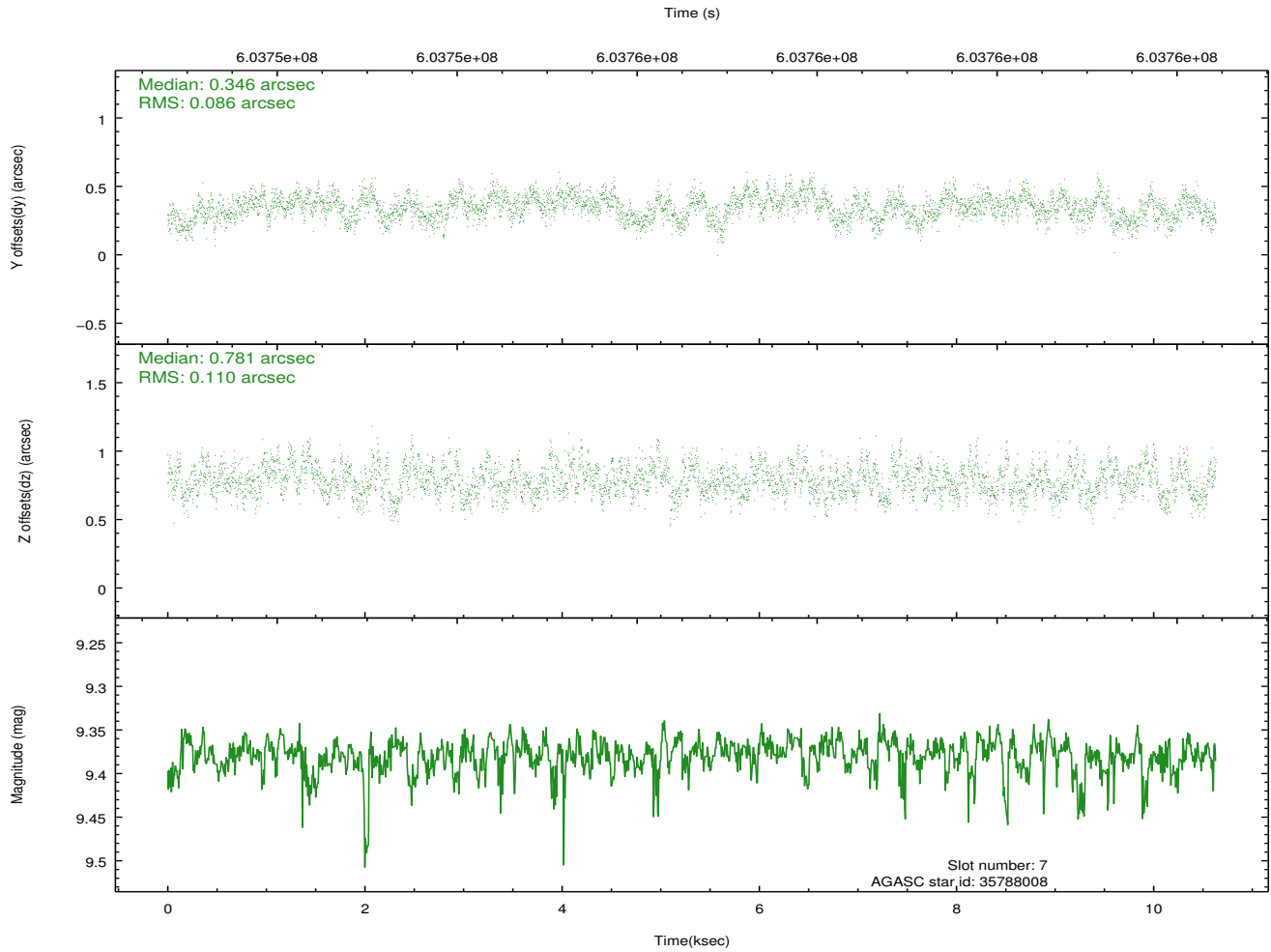
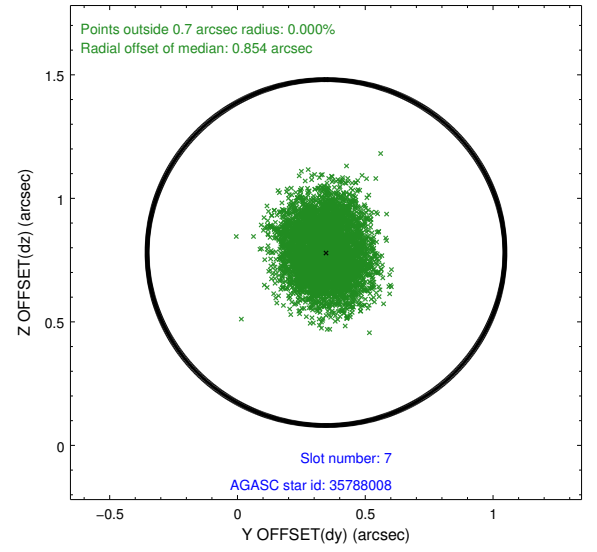
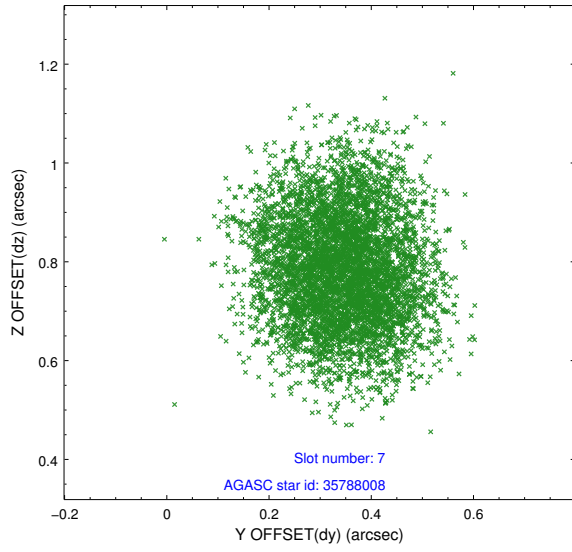
2.4.3 Slot 5



2.4.4 Slot 6

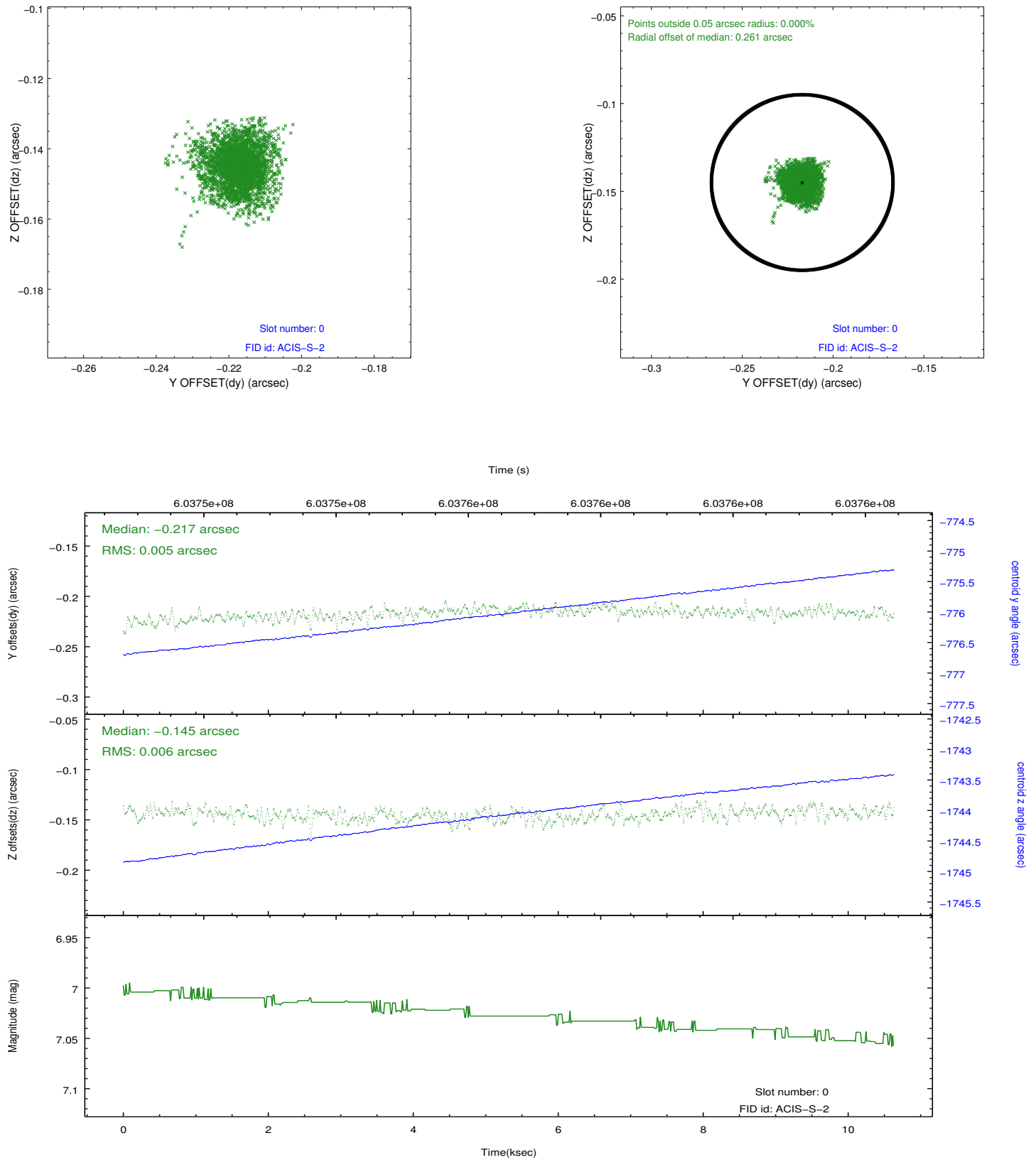


2.4.5 Slot 7

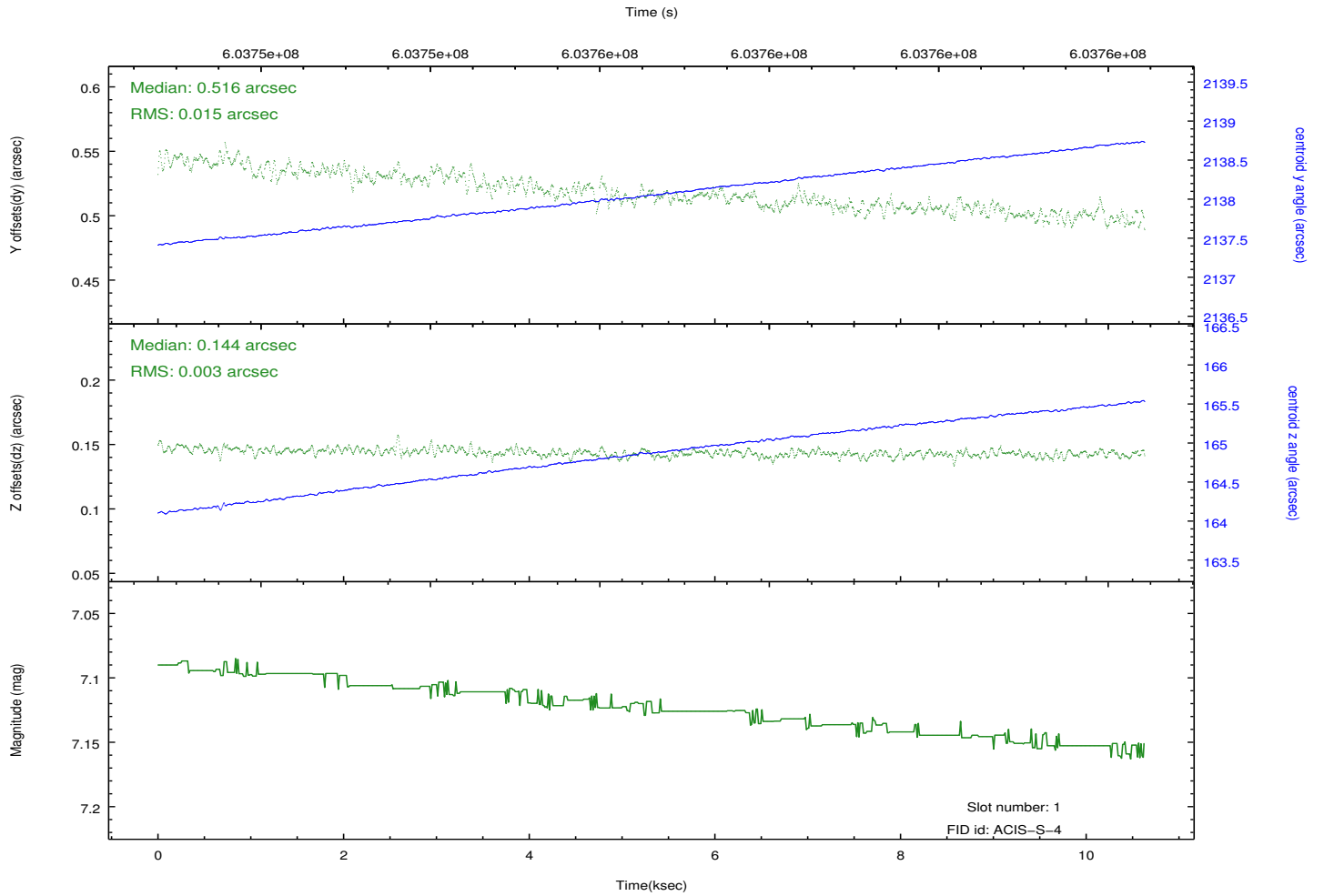
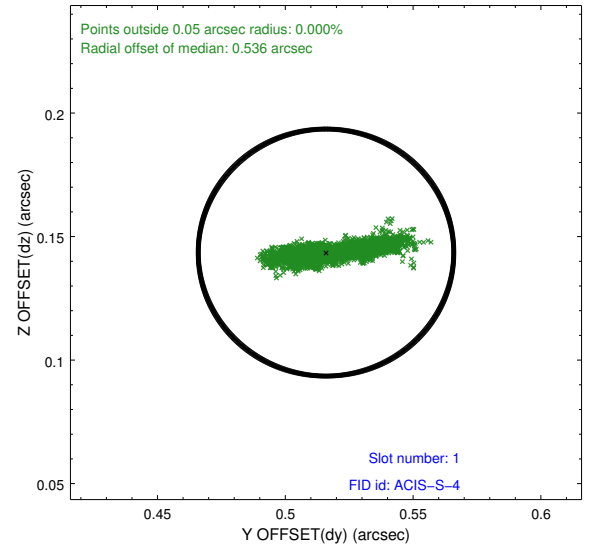
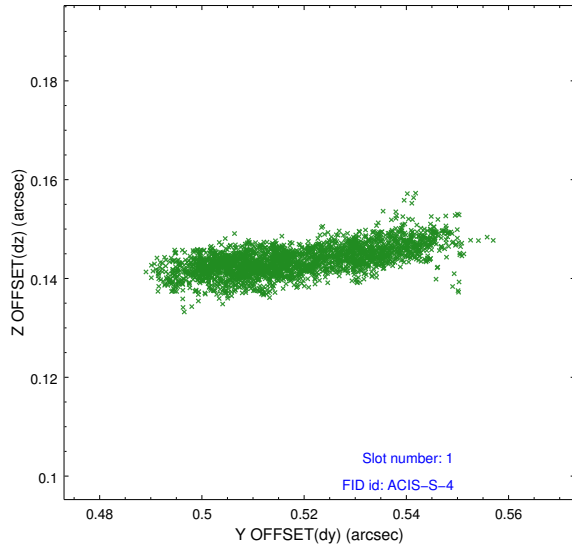


2.5 FID Slots

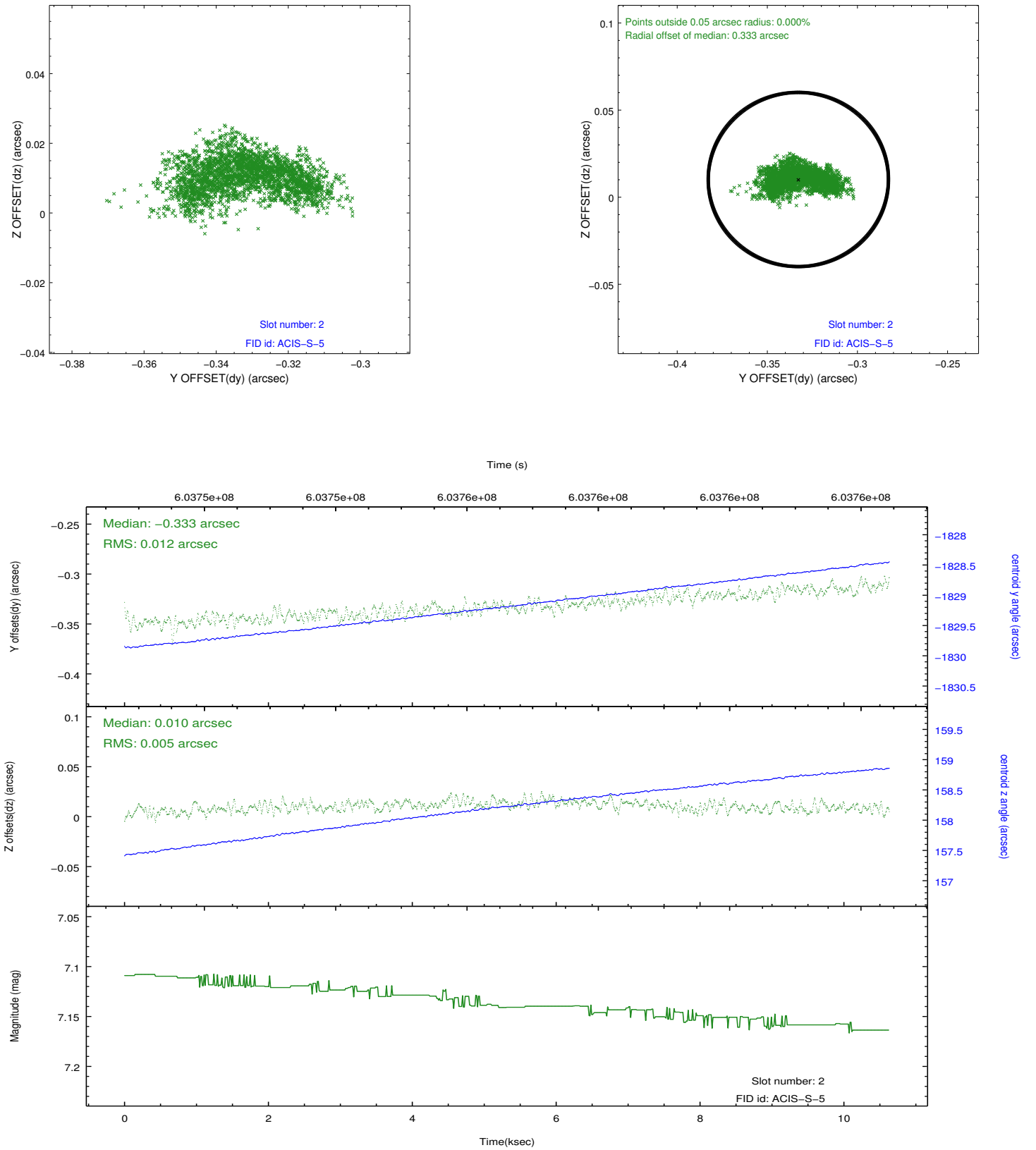
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.561700081348

A.2 Comments