

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19743 - L2 Version 1
Chandra X-Ray Center

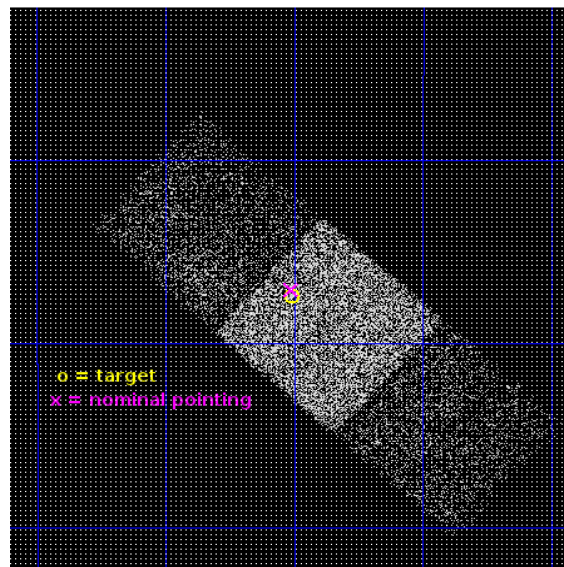
L2 Processing Date : Sep 25 2017

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

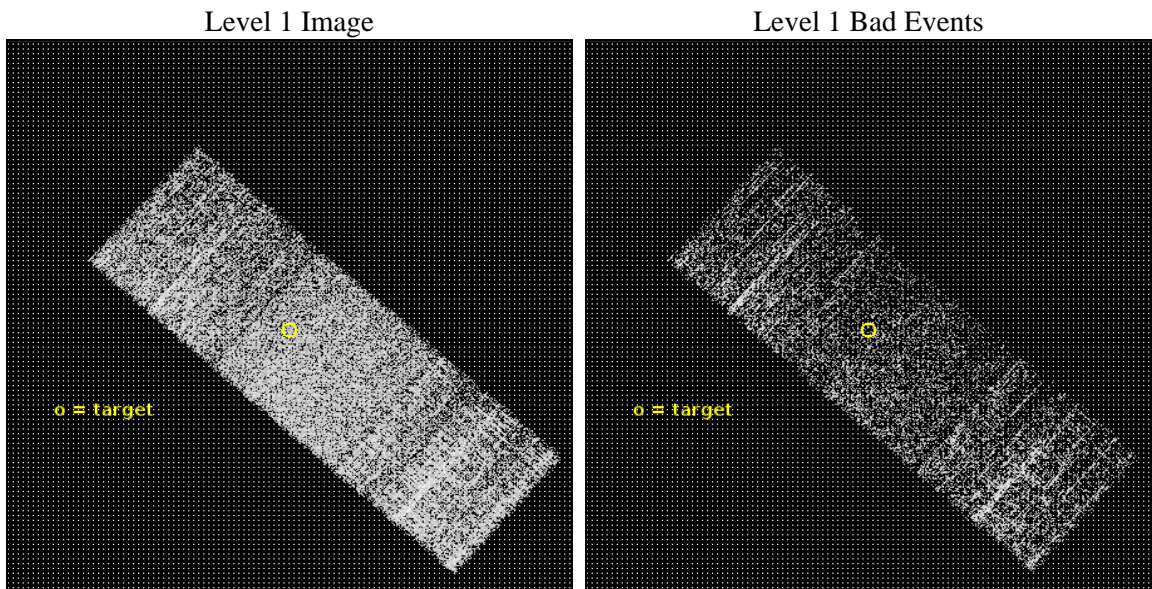
seq_num	703458	Sequence number
obs_id	19743	Observation id
title	A Chandra Snapshot Survey of Extraordinarily Luminous and Heavily Obscured Quasars from the WISE Survey	Proposal title
observer	Gordon Garmire	Principal investigator
object	W0134-2607	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.5025	Observer's specified target RA [deg]
dec_targ	-26.124056	Observer's specified target Dec [deg]
ra_nom	23.502620382693	Nominal RA [deg]
dec_nom	-26.11778033524	Nominal Dec [deg]
roll_nom	41.631953852184	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3112.4000240564	Sum of GTIs [s]
livetime	3071.7342264266	Livetime [s]
ontime6	3112.4000240564	Sum of GTIs [s]
ontime7	3112.4000240564	Sum of GTIs [s]
ontime8	3112.4000240564	Sum of GTIs [s]
l2events	15992	Number of level 2 events



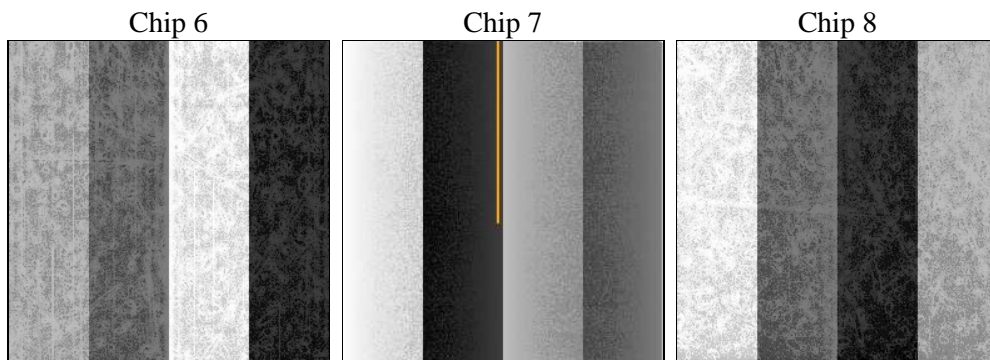
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	3112.4000240564	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	3112.4000240564	Sum of GTIs [s]
date	2017-09-25T11:42:45	Date and time of file creation	ontime7	3112.4000240564	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3112.4000240564	Sum of GTIs [s]
			l1events	74241	Number of level 1 events

2.1.4 Events

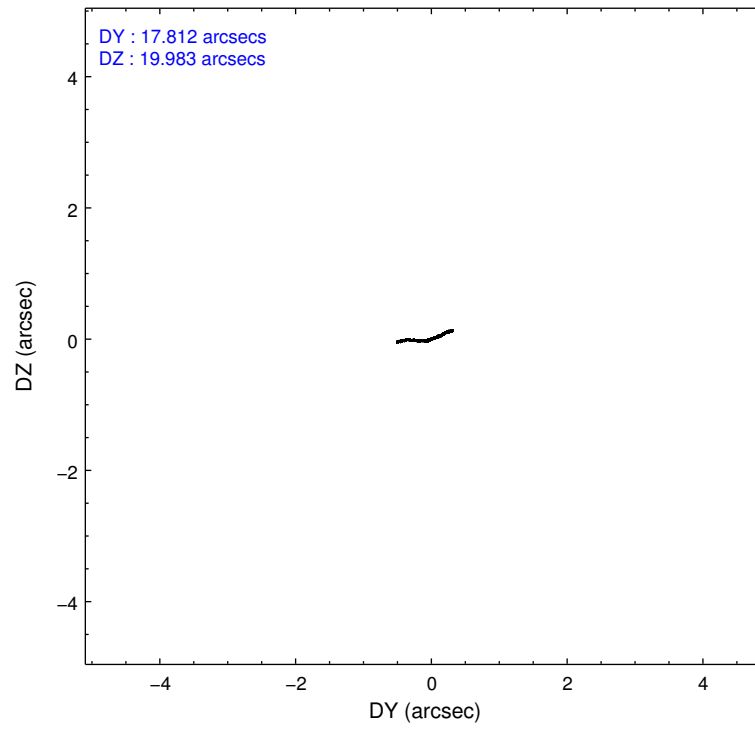
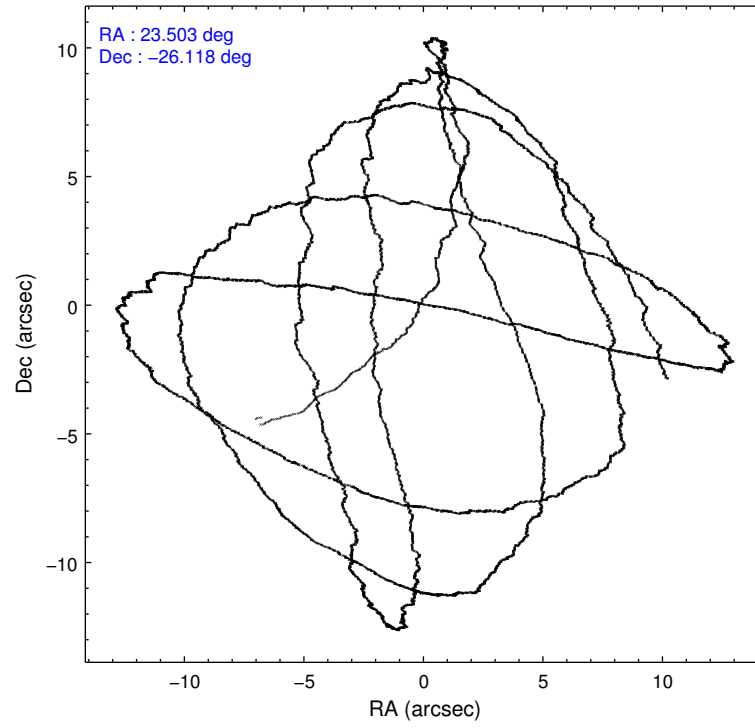
	ccd 6	ccd 7	ccd 8
level 1 events	20147	26521	27573
rejected events	17401	14961	20108
rejected %	86%	56%	72%

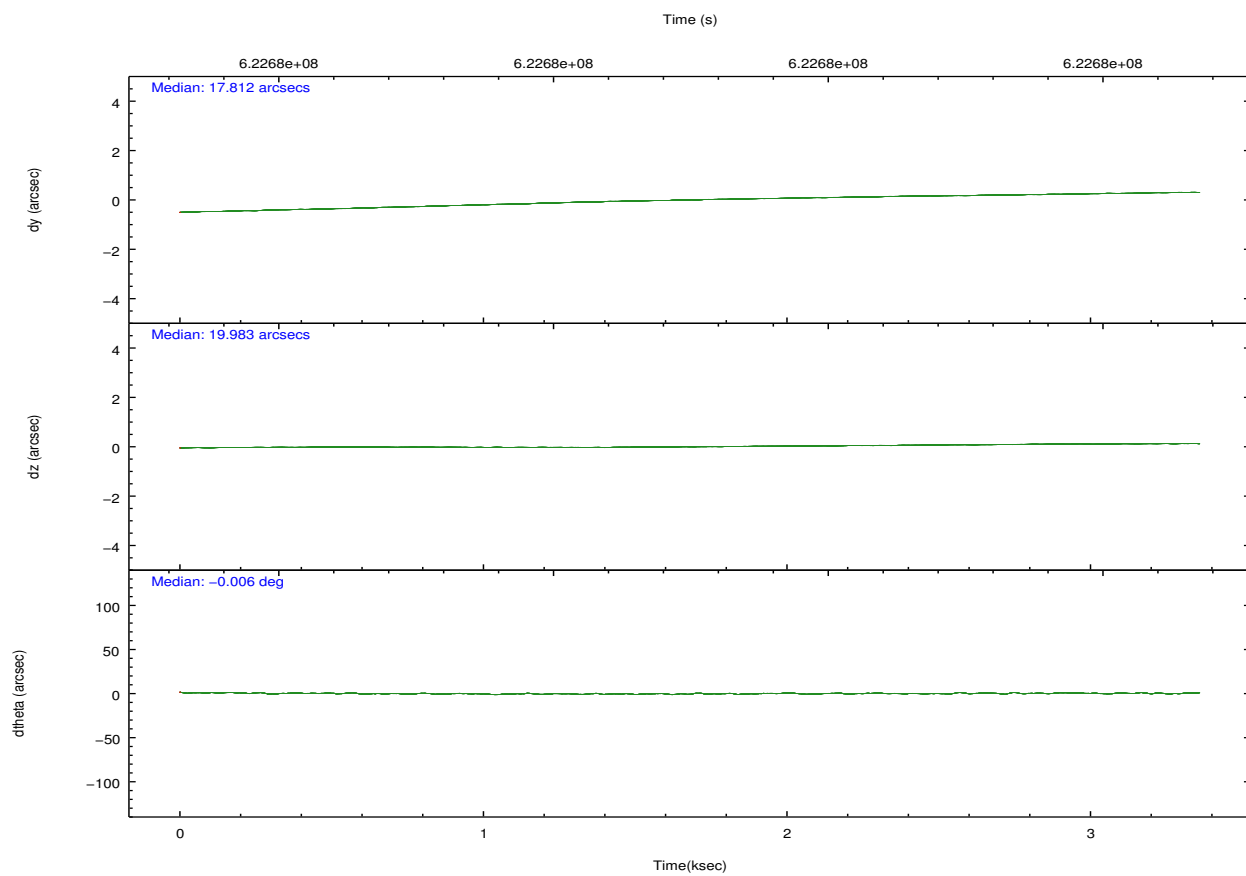
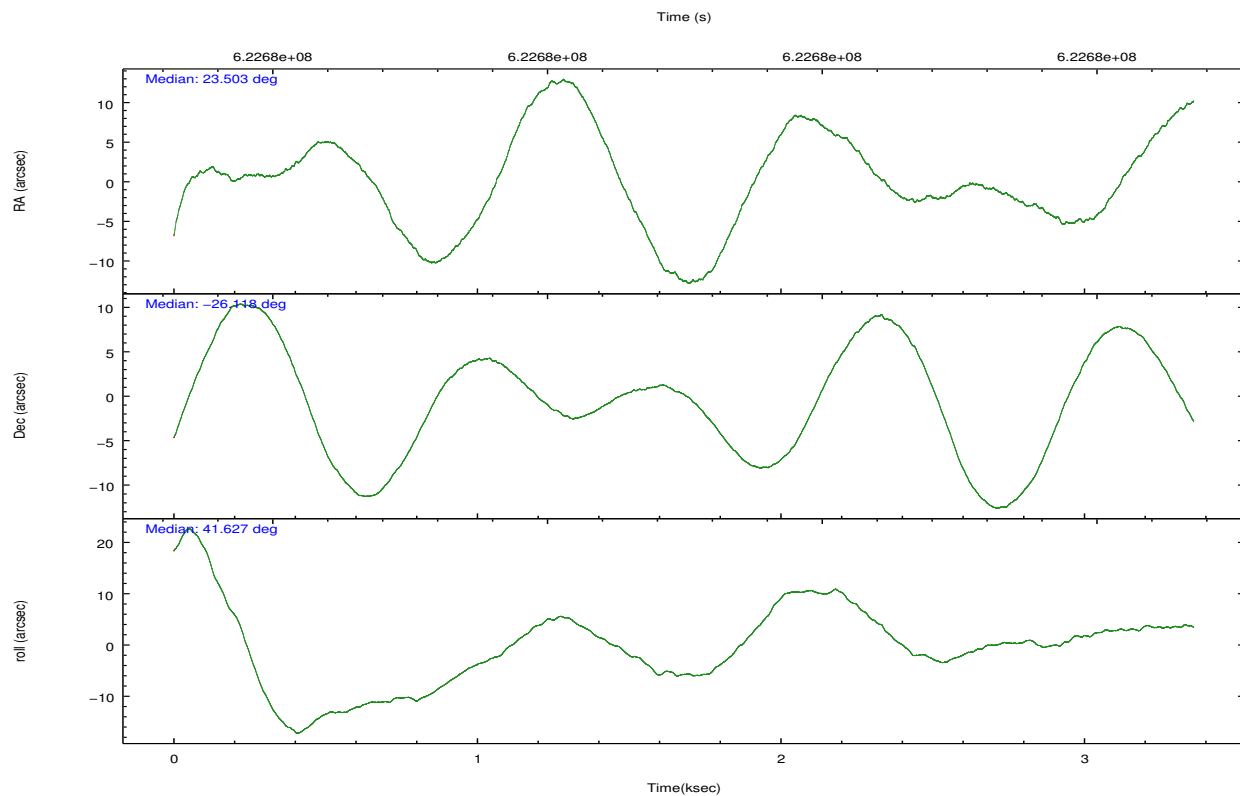
	ccd 6	ccd 7	ccd 8
grade 0 events	1075	1046	2172
	5%	3%	7%
grade 1 events	7	41	16
	0%	0%	0%
grade 2 events	596	2344	1724
	2%	8%	6%
grade 3 events	258	1005	849
	1%	3%	3%
grade 4 events	259	952	758
	1%	3%	2%
grade 5 events	948	2729	1481
	4%	10%	5%
grade 6 events	563	6236	1994
	2%	23%	7%
grade 7 events	16441	12168	18579
	81%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	23.493362	23.5026203826928	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.144159	-26.1177803352403	Alternating exposures requested	N	N
[deg] Pointing Roll	41.471208	41.63195385218368	[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)	622681157.184000	622680077.08008			
Observation start date	2017-09-24T22:58:08	2017-09-24T22:41:17			
[s] Observation end time (MET)	622684157.184000	622684795.66785			
Observation end date	2017-09-24T23:48:08	2017-09-24T23:59:55			
Read mode	TIMED	TIMED			

2.3 Aspect



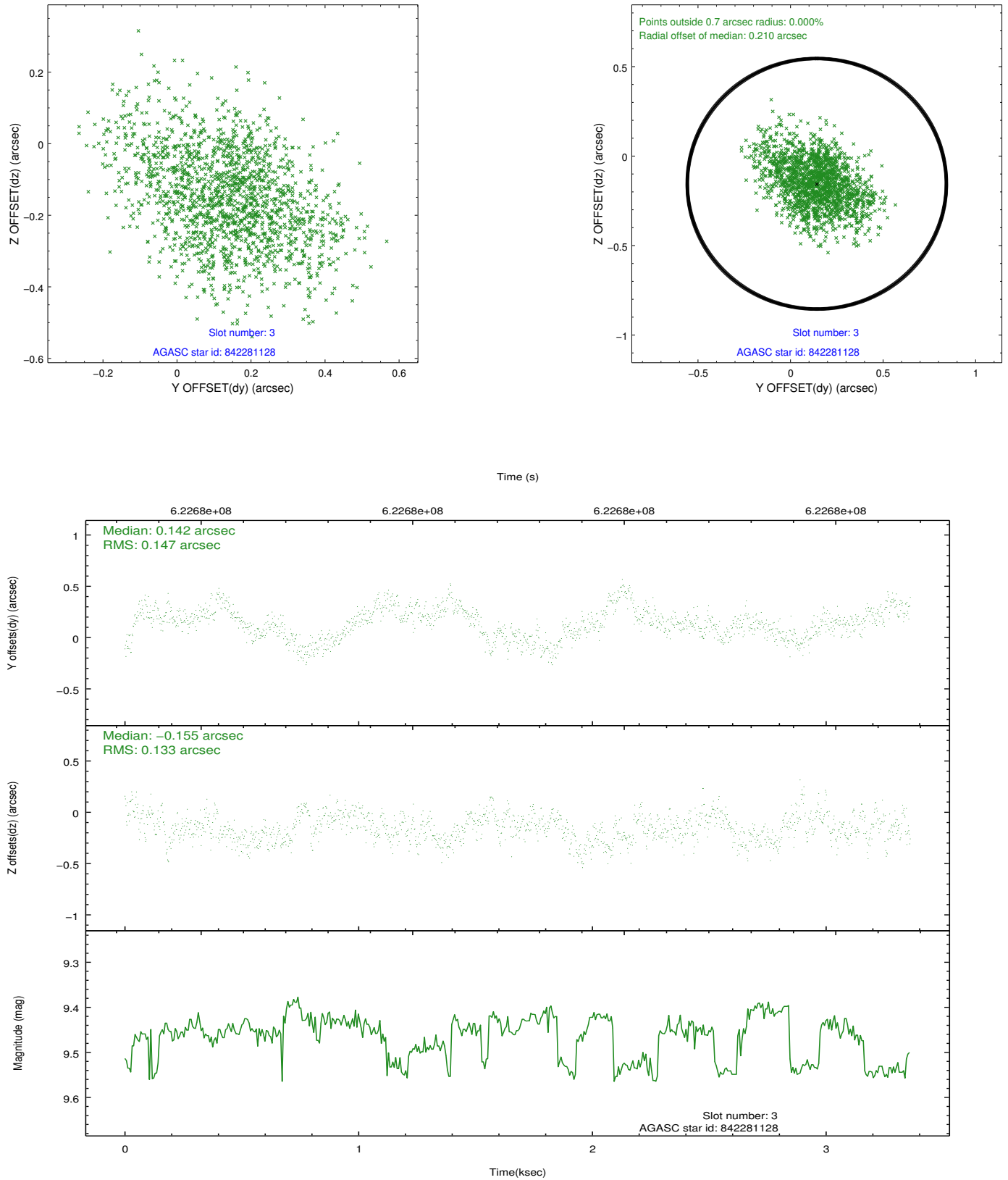


Slot Statistics

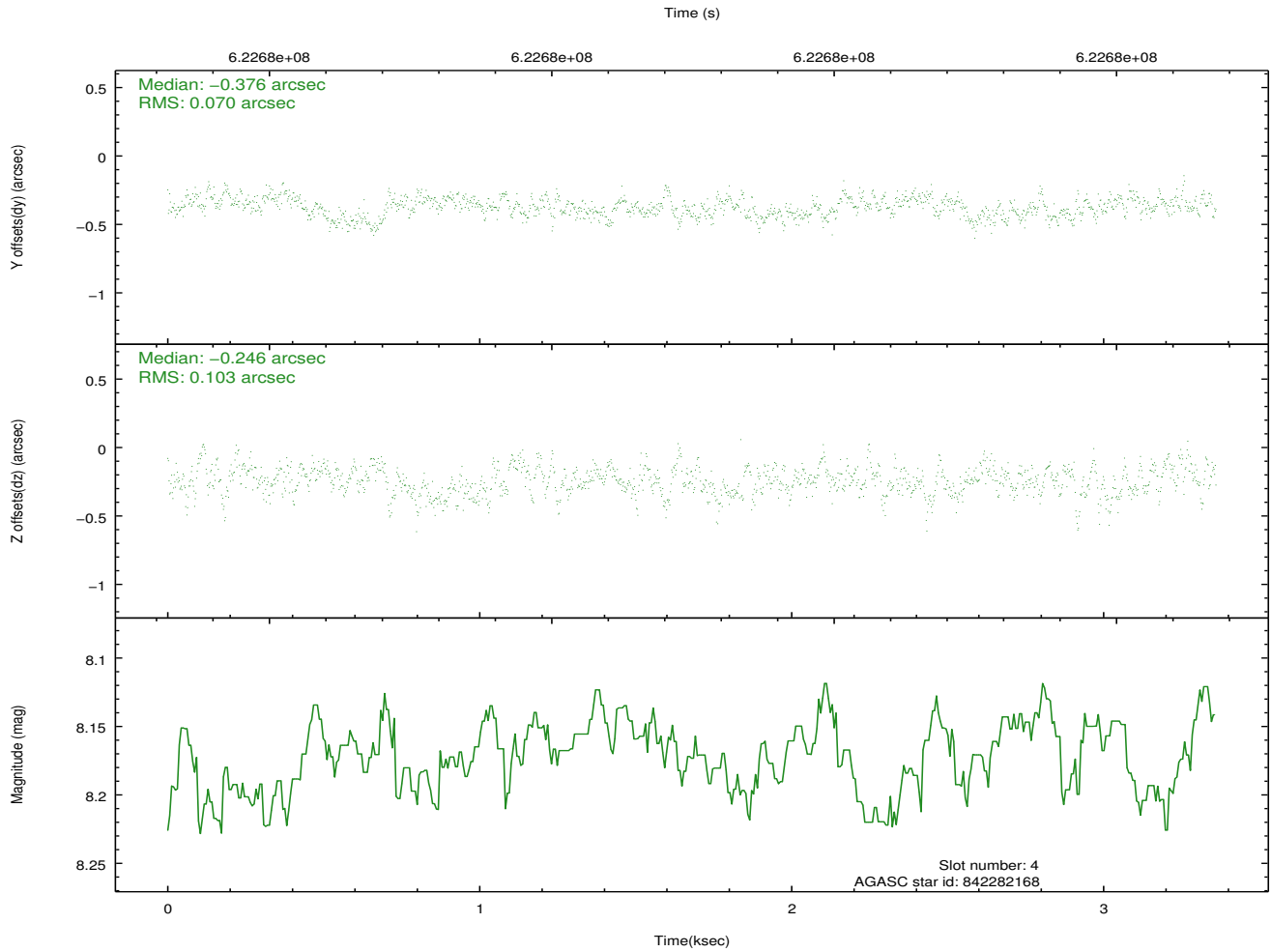
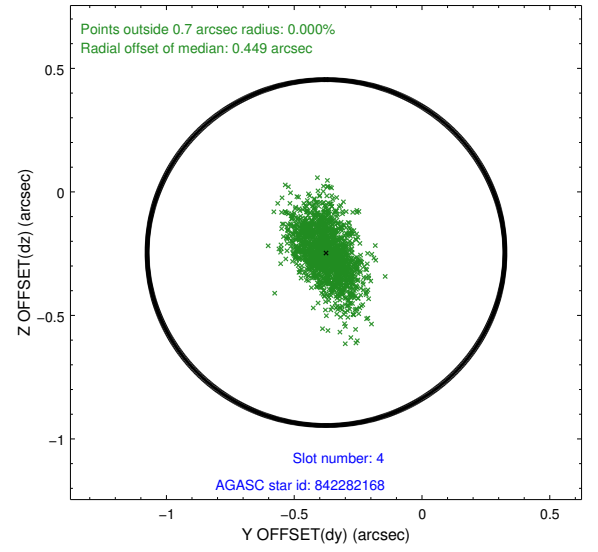
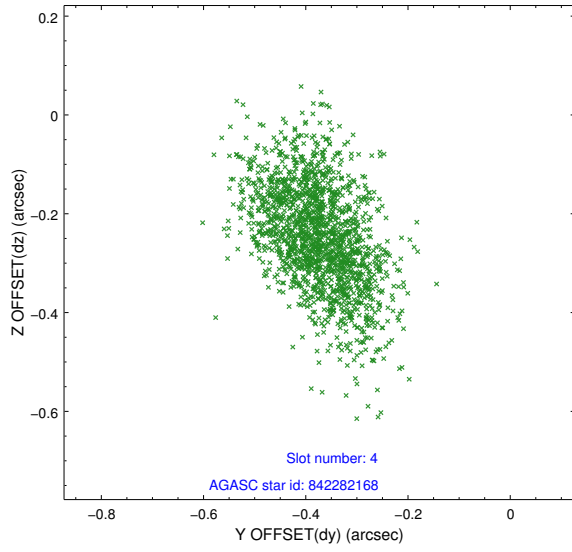
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	820	-0.216	-0.095	0.008	0.013	0.000000	0.000000	-770.98	-1741.64
1	FID		ACIS-S-4	7.14	820	0.527	0.129	0.008	0.015	0.000000	0.000000	2142.12	165.19
2	FID		ACIS-S-5	7.13	820	-0.343	-0.026	0.008	0.012	0.000000	0.000000	-1821.59	160.73
3	GUIDE	used	842281128	9.46	1638	0.142	-0.155	0.209	0.349	22.944258	-26.000163	-991.20	1561.33
4	GUIDE	used	842282168	8.17	1637	-0.376	-0.246	0.129	0.224	23.316171	-25.667204	705.09	1666.28
5	GUIDE	used	842283152	8.86	1637	-0.132	0.042	0.153	0.267	24.044910	-25.921612	1866.81	-584.41
6	GUIDE	used	842285032	9.26	1638	-0.168	0.094	0.284	0.414	24.242108	-26.192282	1693.98	-1737.49
7	GUIDE	used	842547792	9.76	1637	0.527	0.241	0.209	0.340	23.109518	-26.526145	-1836.96	-214.31

2.4 Star Slots

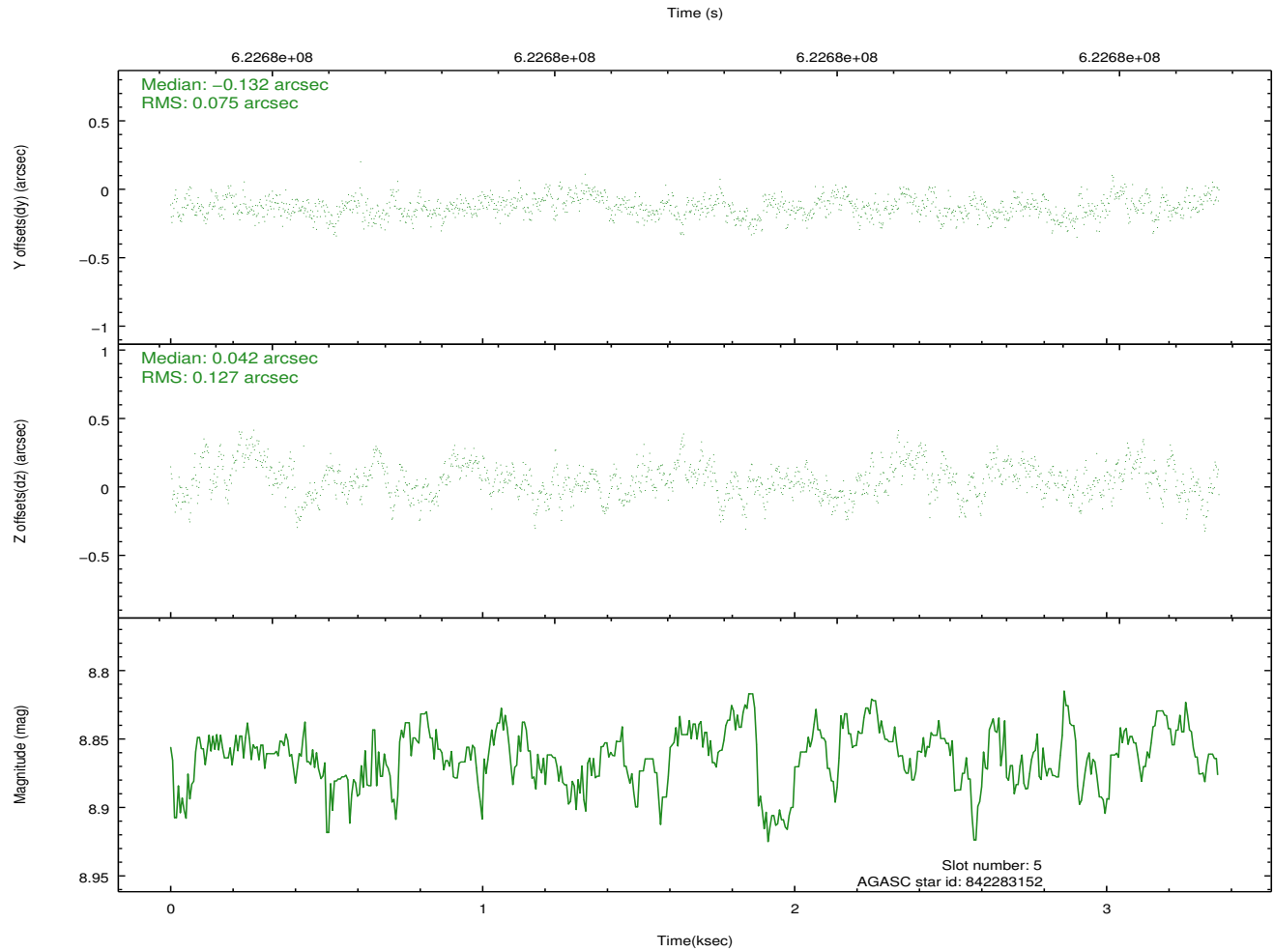
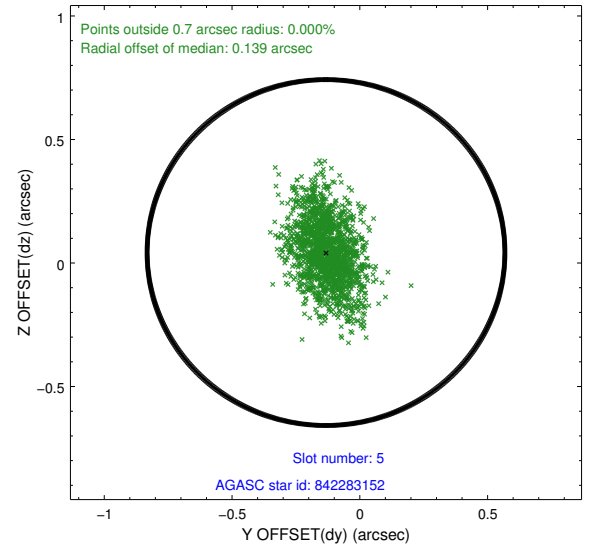
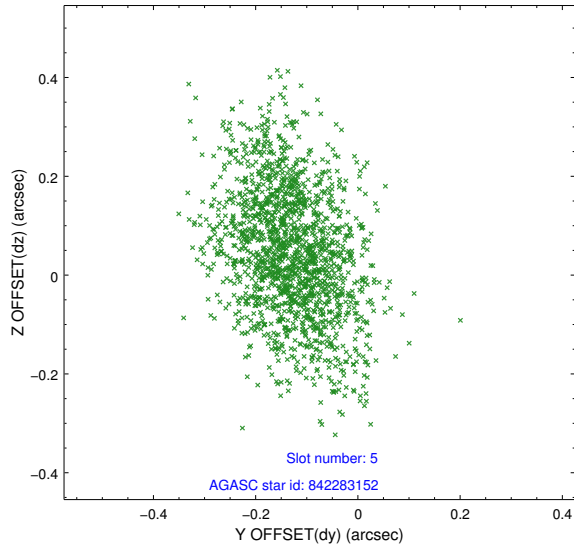
2.4.1 Slot 3



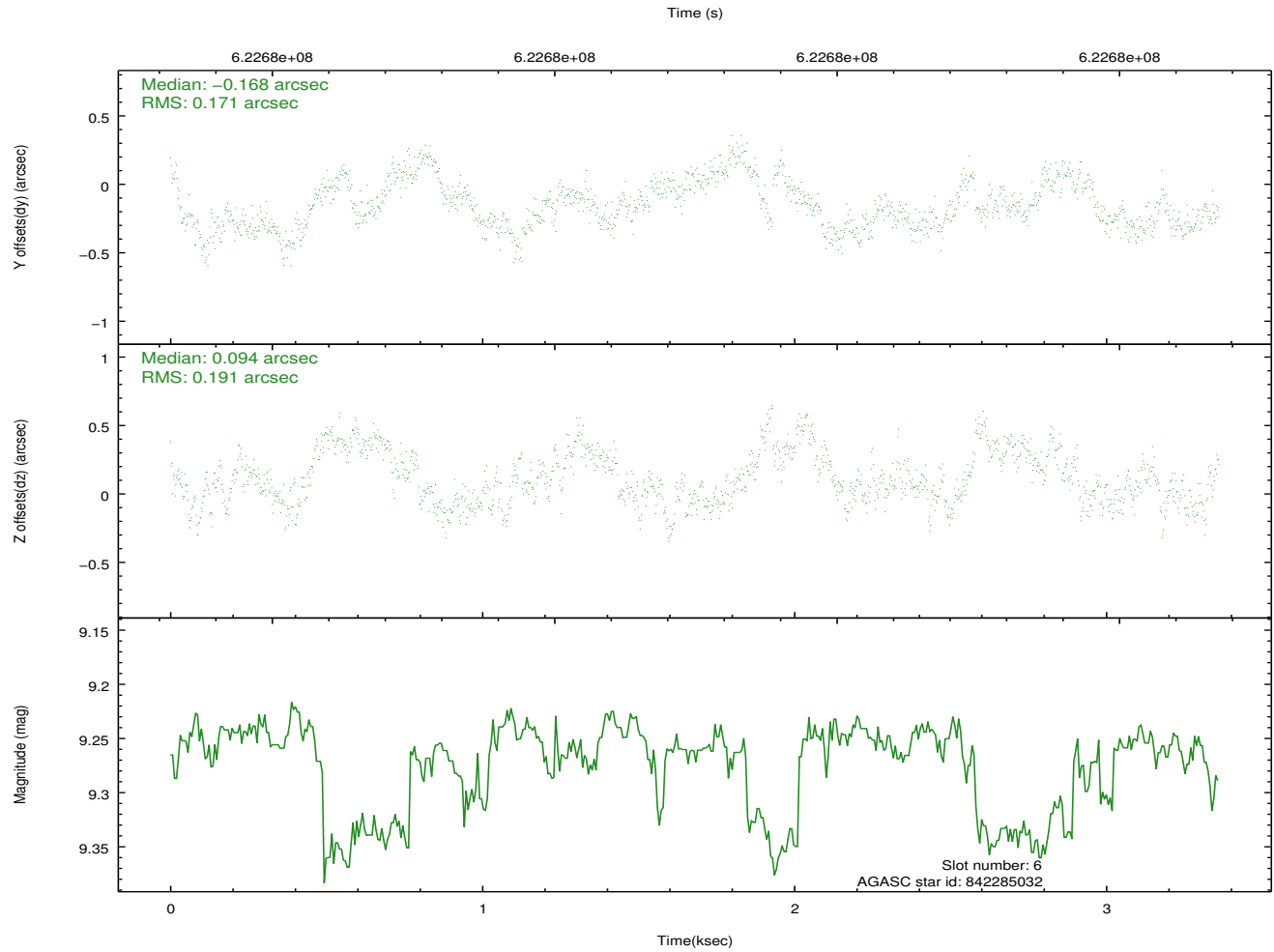
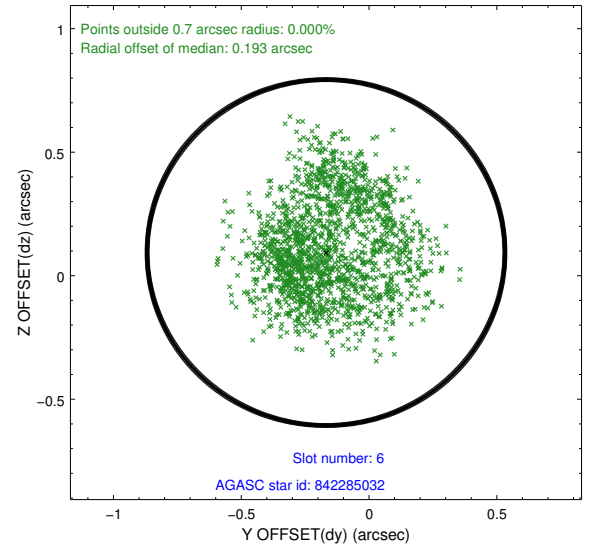
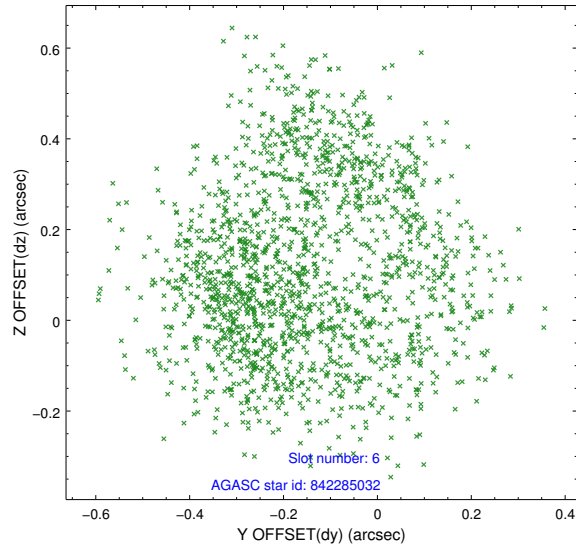
2.4.2 Slot 4



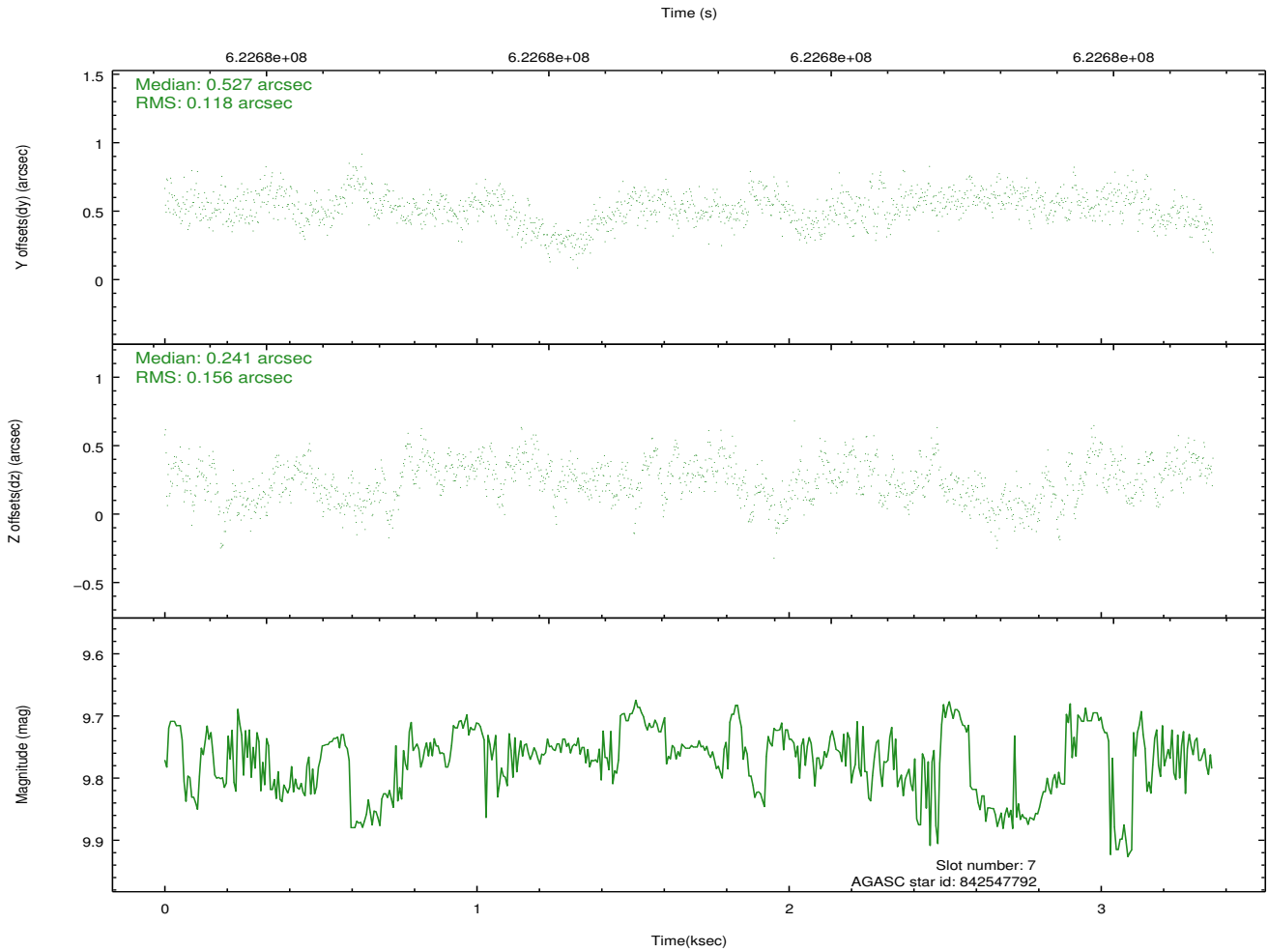
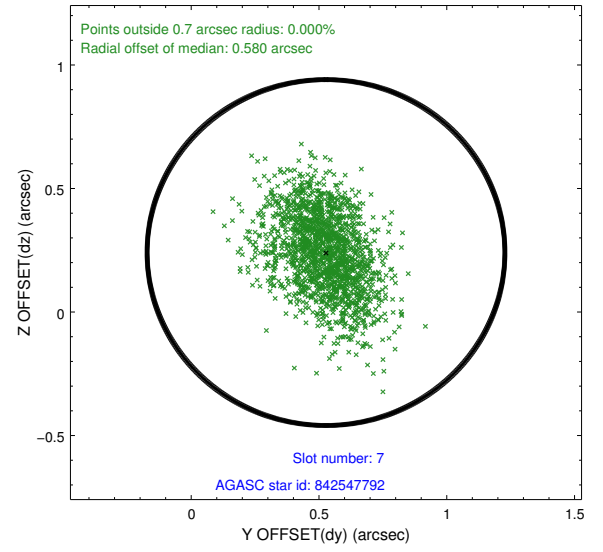
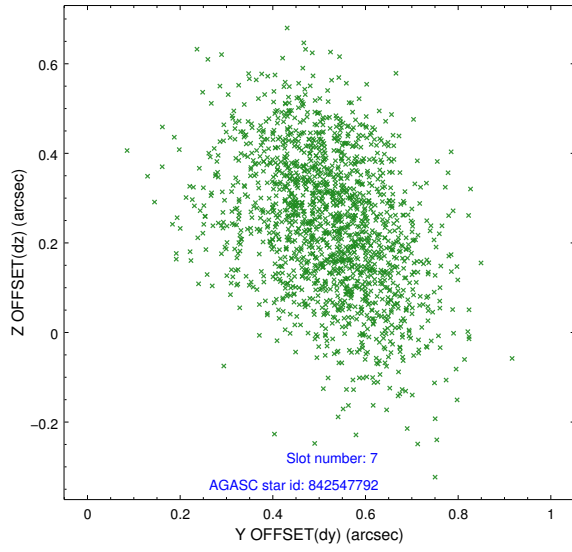
2.4.3 Slot 5



2.4.4 Slot 6

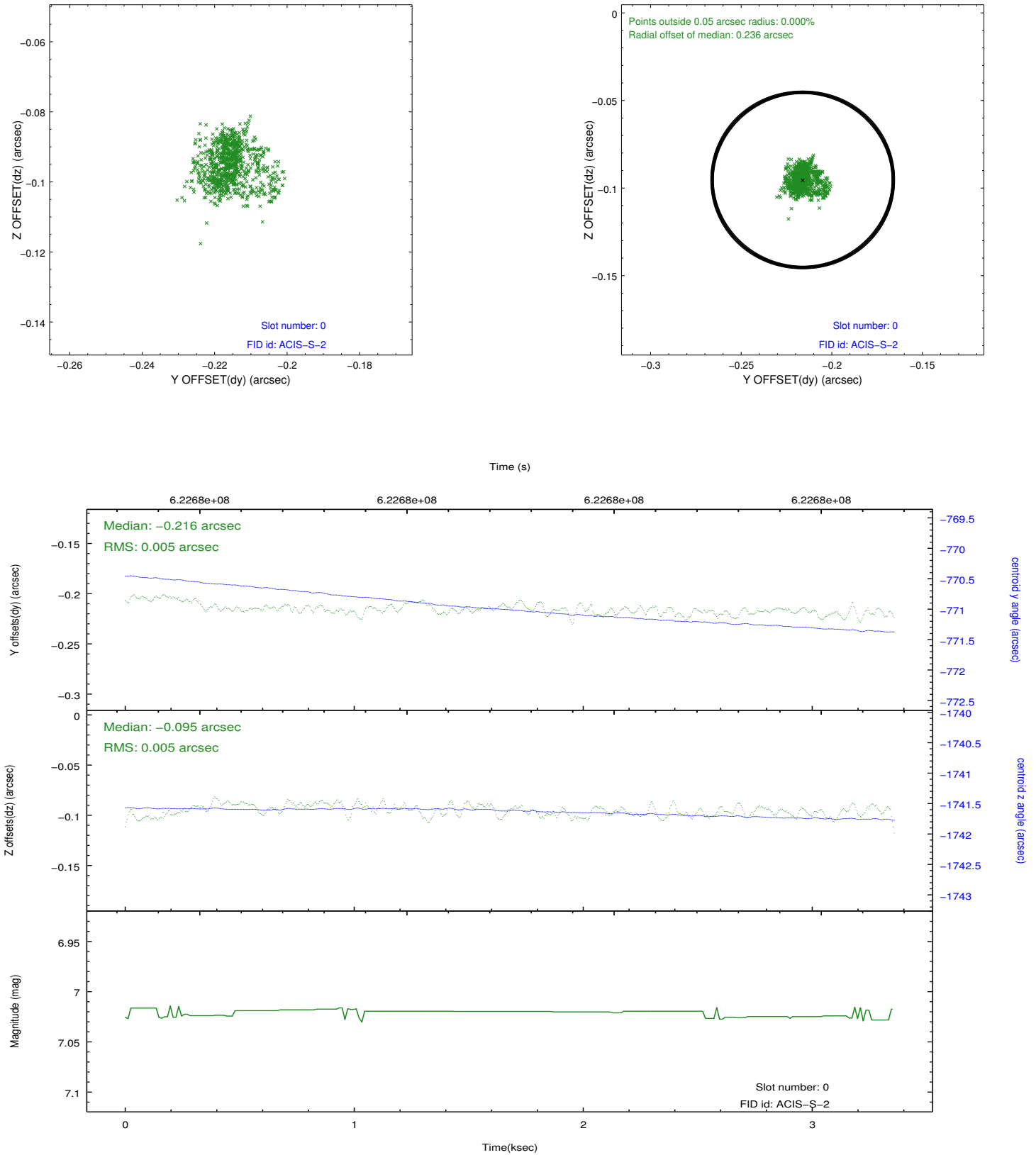


2.4.5 Slot 7

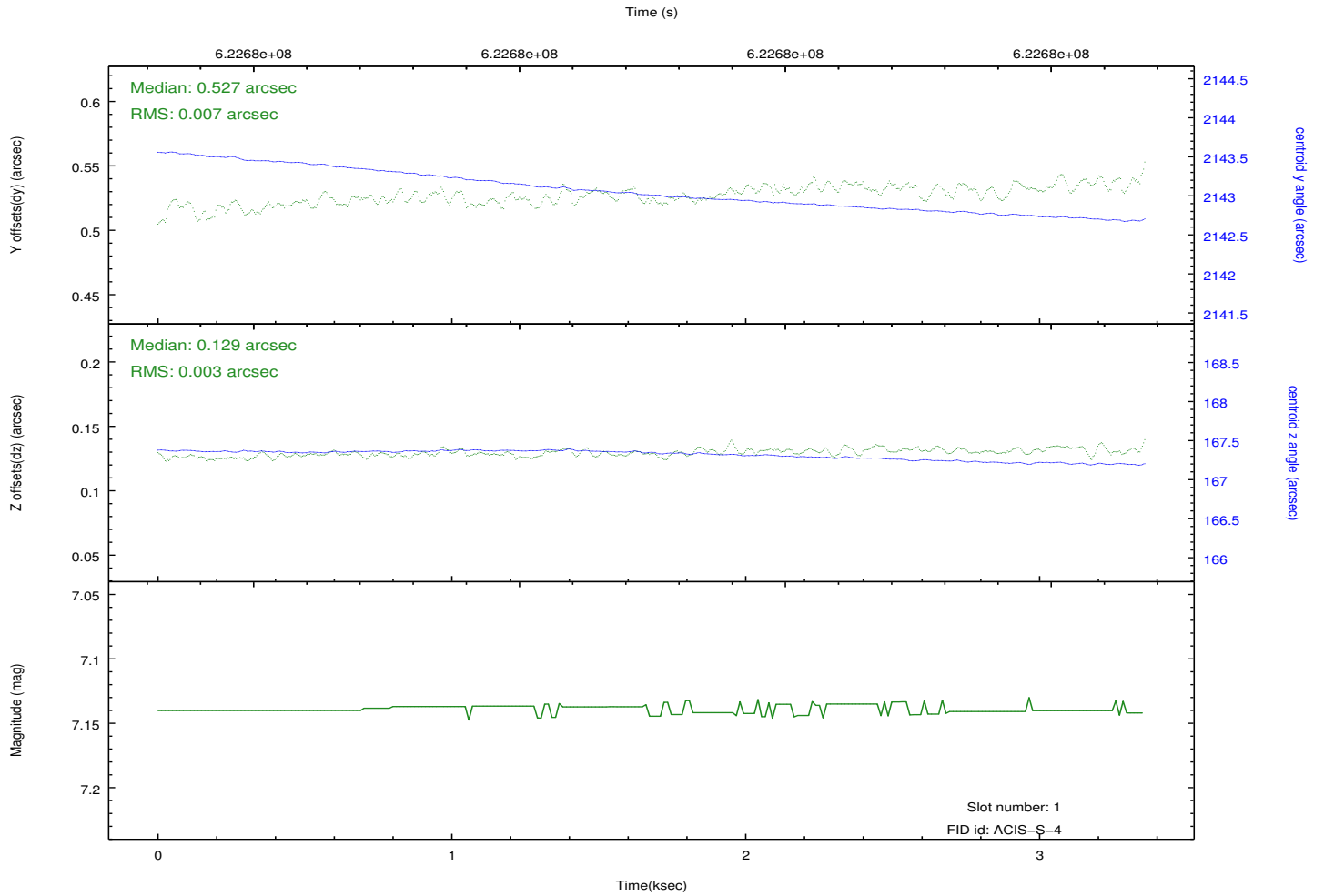
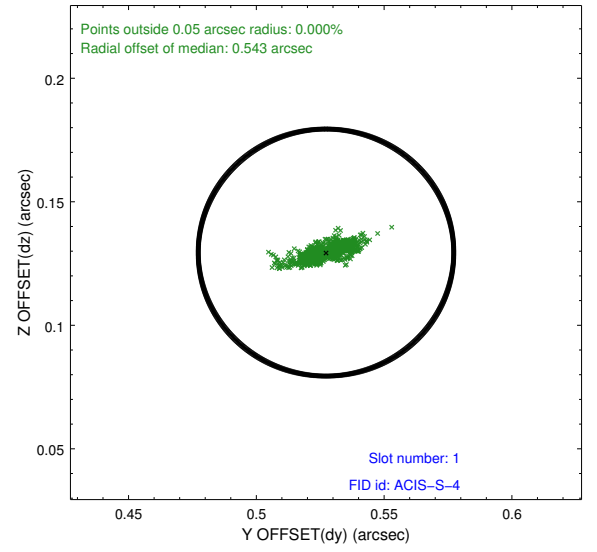
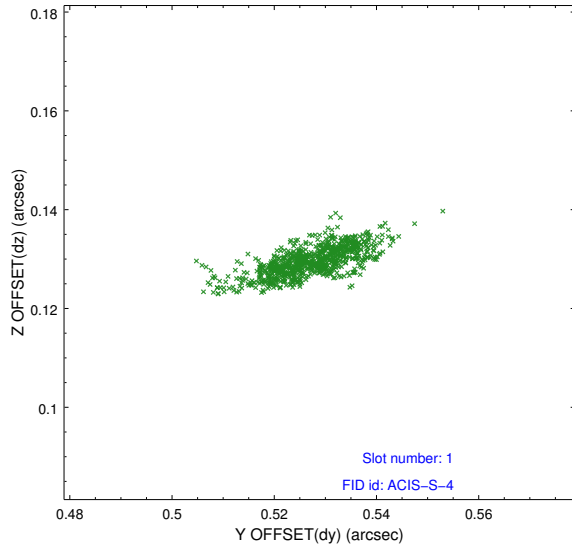


2.5 FID Slots

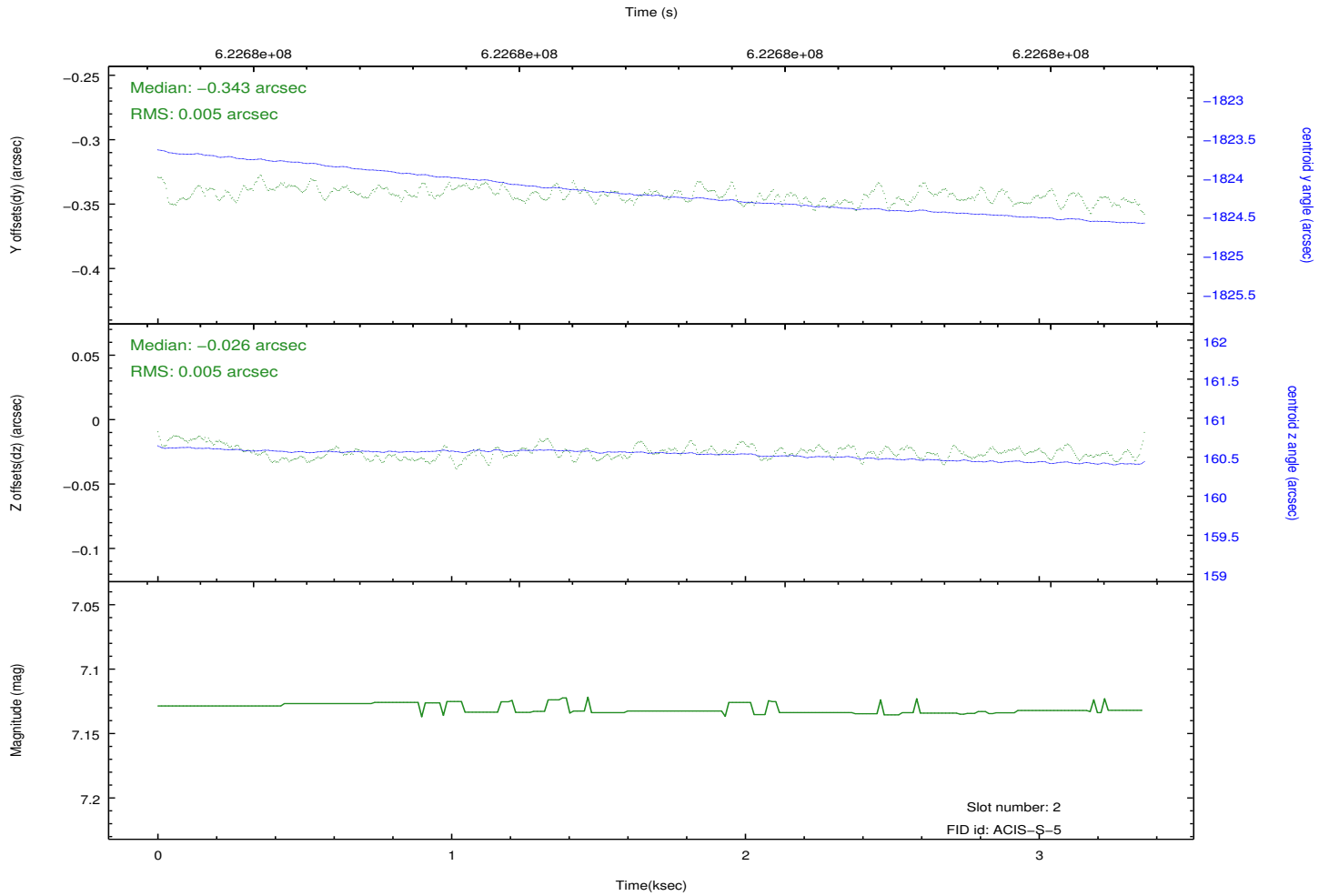
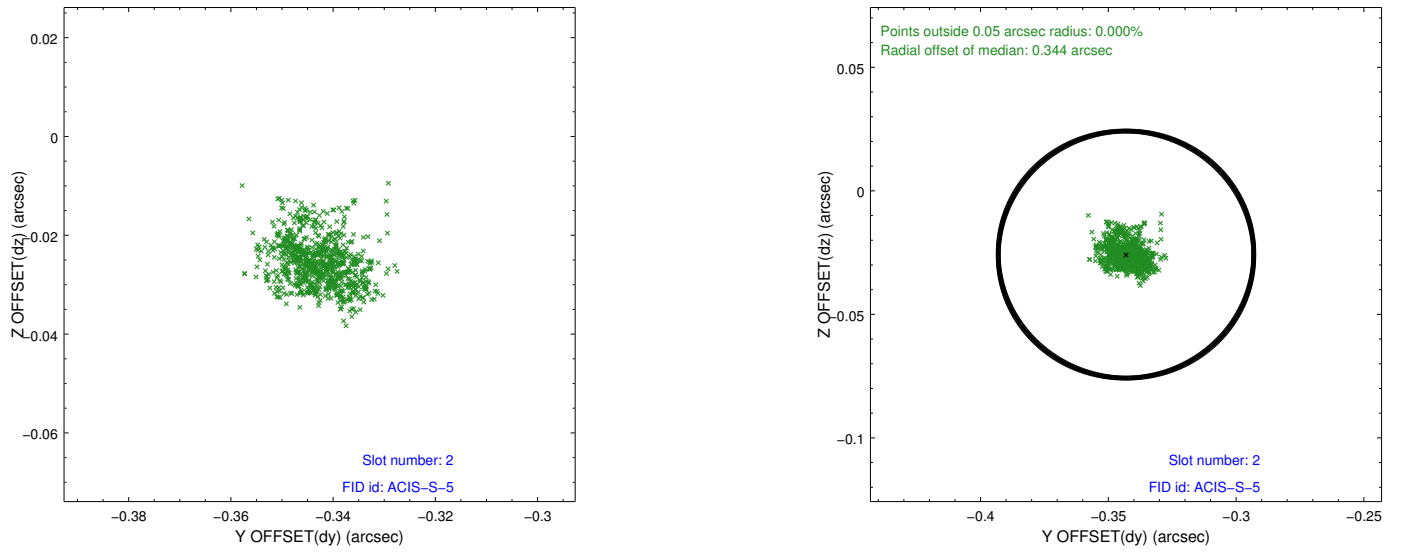
2.5.1 Slot 0



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)	2017.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1124000240564

A.2 Comments