

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21294 - L2 Version 1
Chandra X-Ray Center

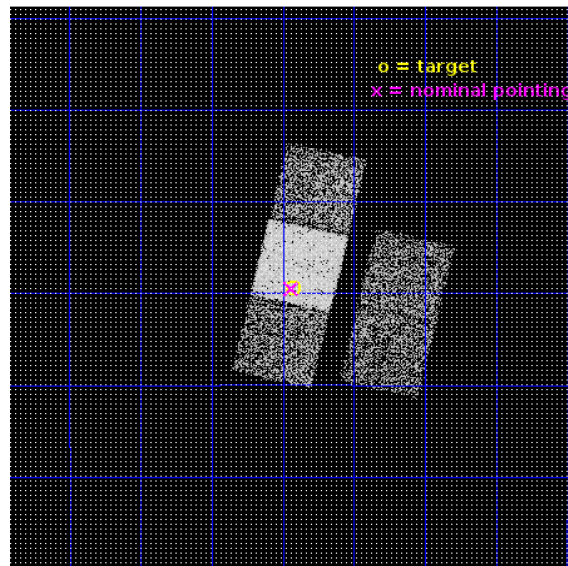
L2 Processing Date : Nov 11 2018

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1 Front

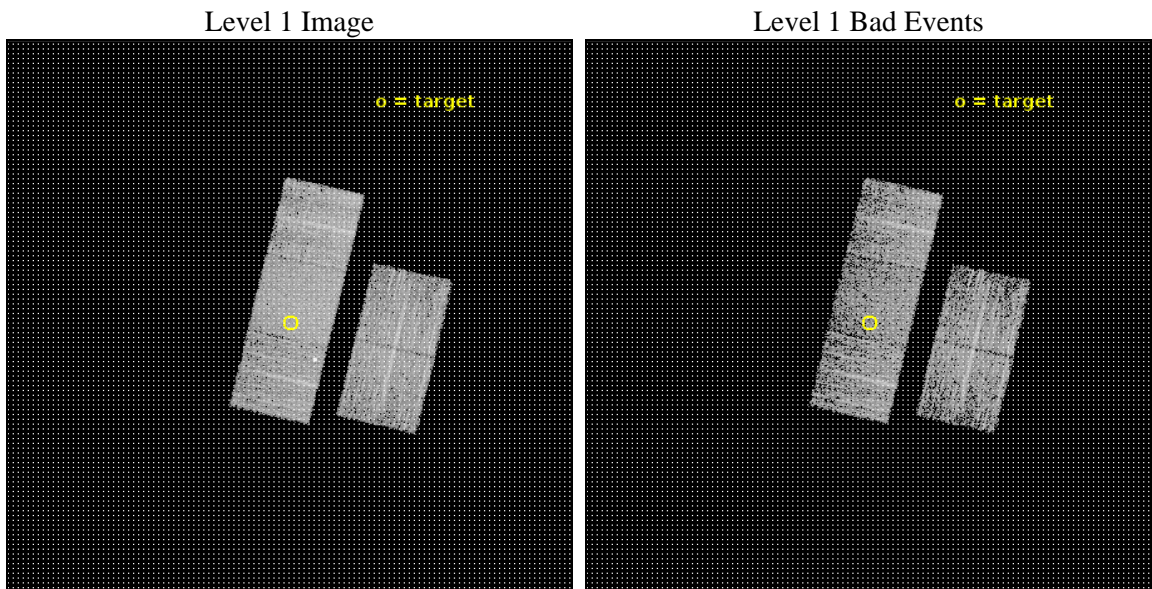
seq_num	503067	Sequence number
obs_id	21294	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1853-0649	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	283.355833	Observer's specified target RA [deg]
dec_targ	-6.823861	Observer's specified target Dec [deg]
ra_nom	283.35994879555	Nominal RA [deg]
dec_nom	-6.8250880635438	Nominal Dec [deg]
roll_nom	283.15694428463	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3546.4000273943	Sum of GTIs [s]
livetime	3500.0637002147	Livetime [s]
ontime2	3546.4000273943	Sum of GTIs [s]
ontime3	3546.4000273943	Sum of GTIs [s]
ontime6	3546.4000273943	Sum of GTIs [s]
ontime7	3546.4000273943	Sum of GTIs [s]
ontime8	3546.4000273943	Sum of GTIs [s]
l2events	24734	Number of level 2 events



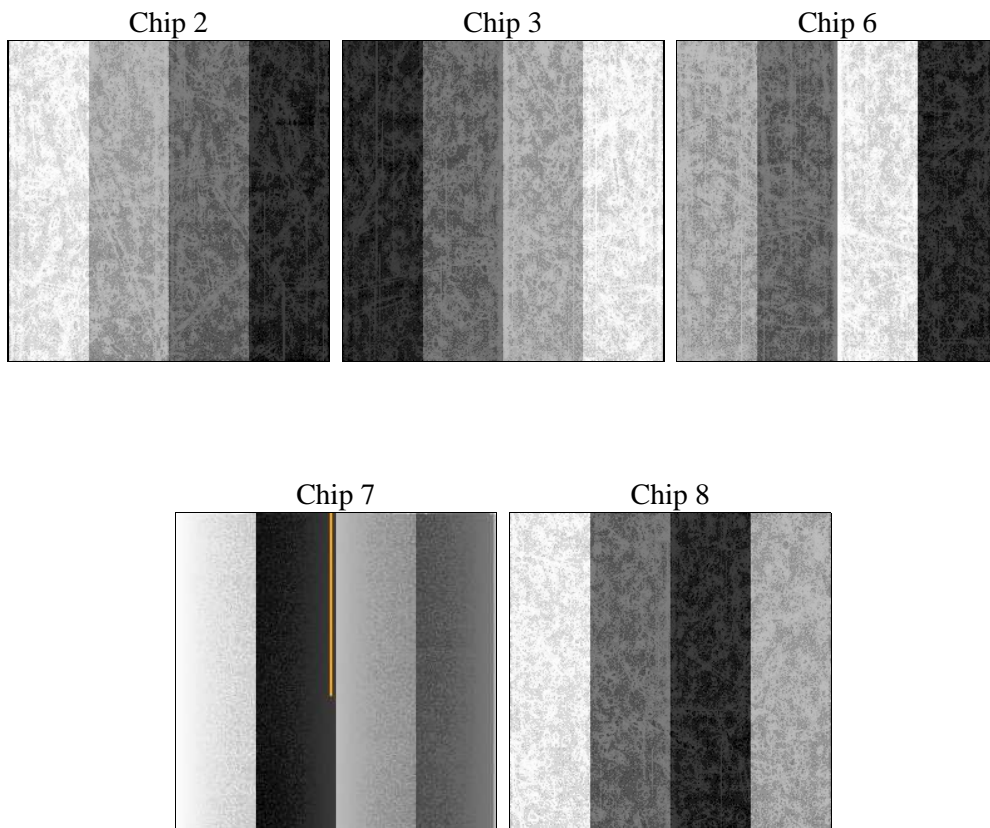
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3546.4000273943	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3546.4000273943	Sum of GTIs [s]
date	2018-11-11T22:04:05	Date and time of file creation	ontime3	3546.4000273943	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3546.4000273943	Sum of GTIs [s]
			ontime7	3546.4000273943	Sum of GTIs [s]
			ontime8	3546.4000273943	Sum of GTIs [s]
			l1events	152498	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	27347	27127	28585	34419	35020
rejected events	24583	24389	24505	19860	26278
rejected %	89%	89%	85%	57%	75%

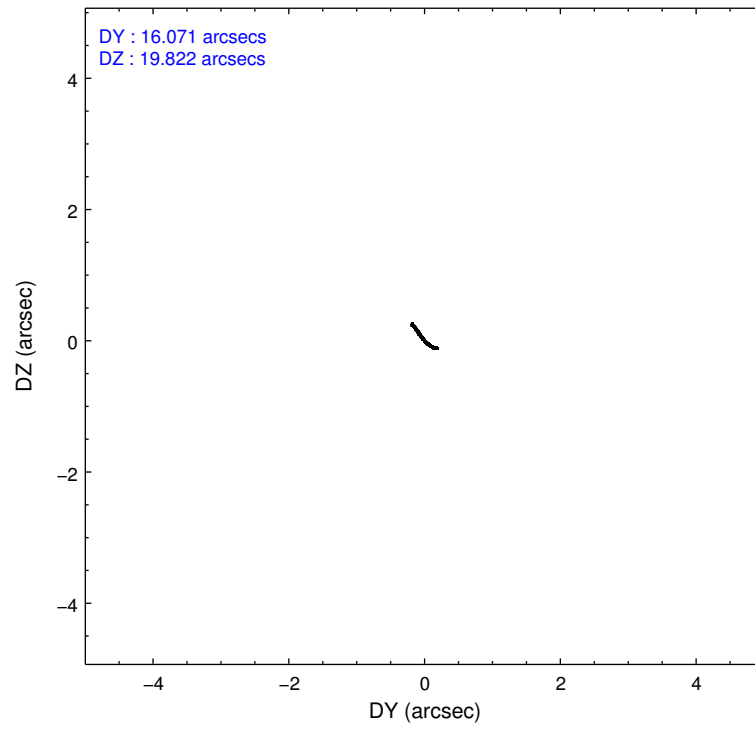
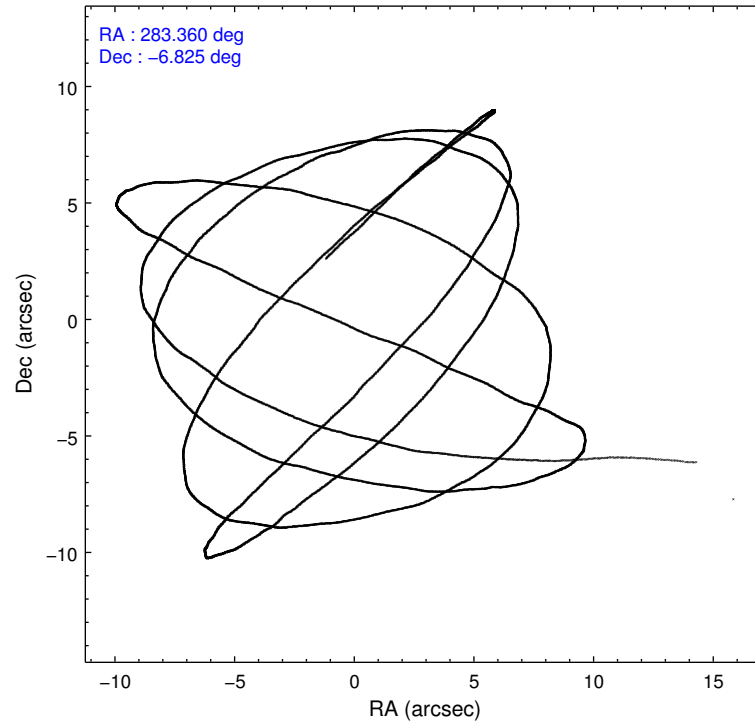
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1007	975	883	1184	2420
	3%	3%	3%	3%	6%
grade 1 events	11	13	9	62	17
	0%	0%	0%	0%	0%
grade 2 events	662	598	1865	3000	2162
	2%	2%	6%	8%	6%
grade 3 events	302	275	242	1137	881
	1%	1%	0%	3%	2%
grade 4 events	279	251	253	1175	810
	1%	0%	0%	3%	2%
grade 5 events	962	1098	1100	3310	1779
	3%	4%	3%	9%	5%
grade 6 events	521	644	846	8093	2524
	1%	2%	2%	23%	7%
grade 7 events	23603	23273	23387	16458	24427
	86%	85%	81%	47%	69%

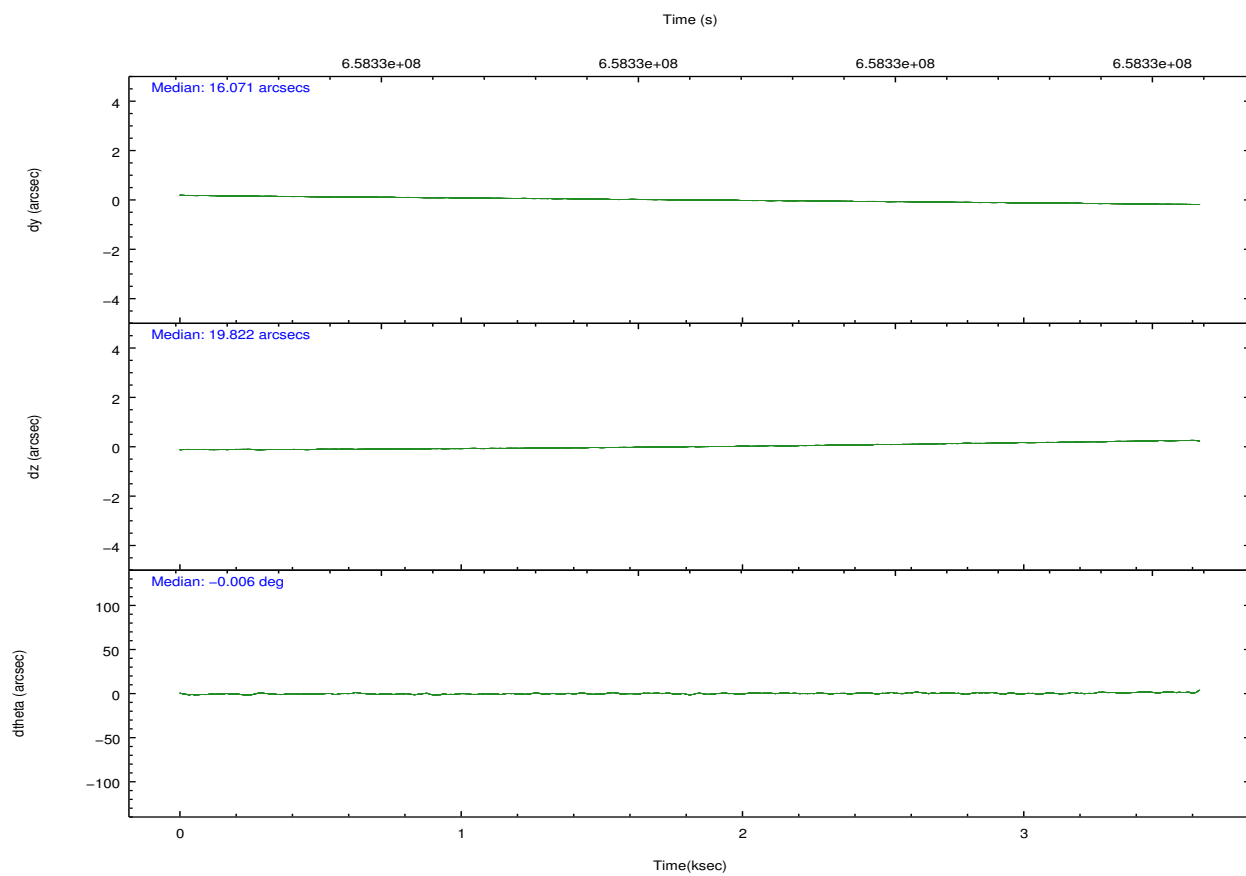
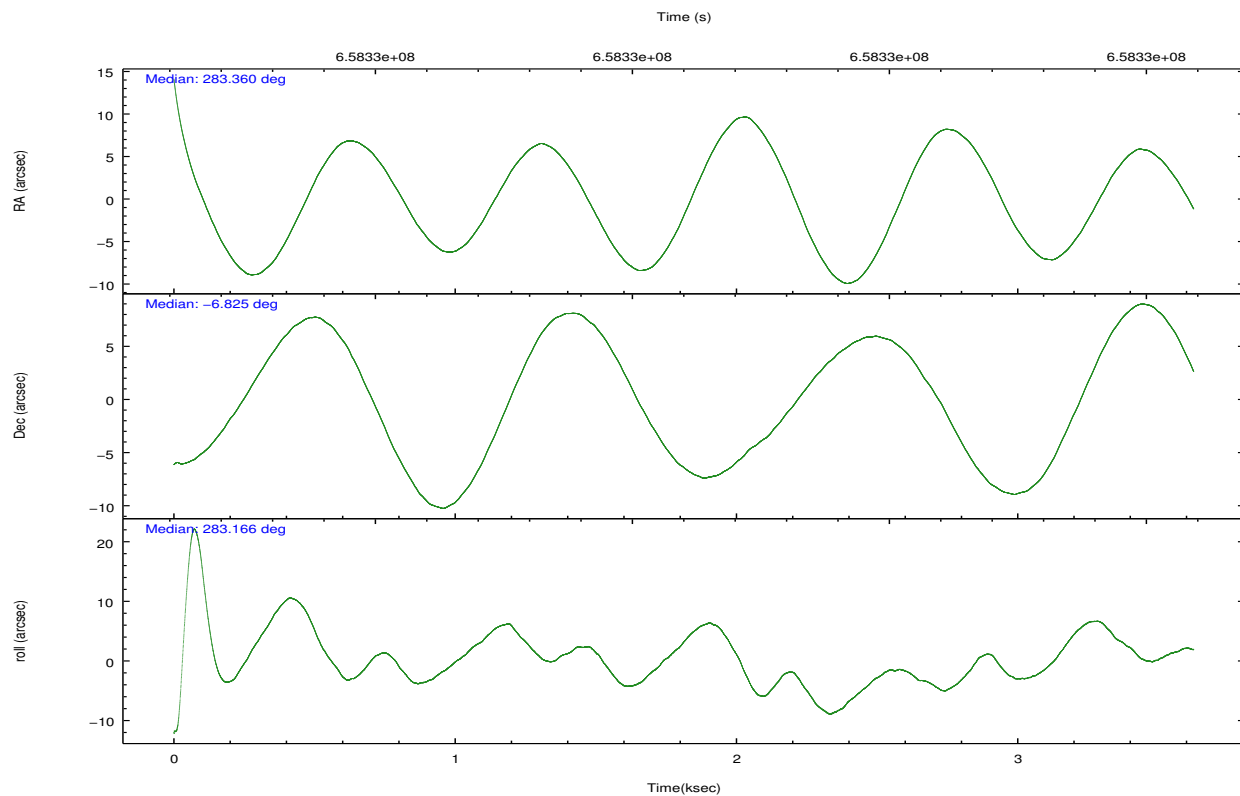
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	283.340766	283.3599487955506
[deg] Pointing Dec	-6.805440	-6.825088063543804
[deg] Pointing Roll	282.998212	283.1569442846329
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	658329500.184000	658328213.4522901
Observation start date	2018-11-11T13:17:11	2018-11-11T12:56:53
[s] Observation end time (MET)	658333000.184000	658333901.69013
Observation end date	2018-11-11T14:15:31	2018-11-11T14:31:41
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



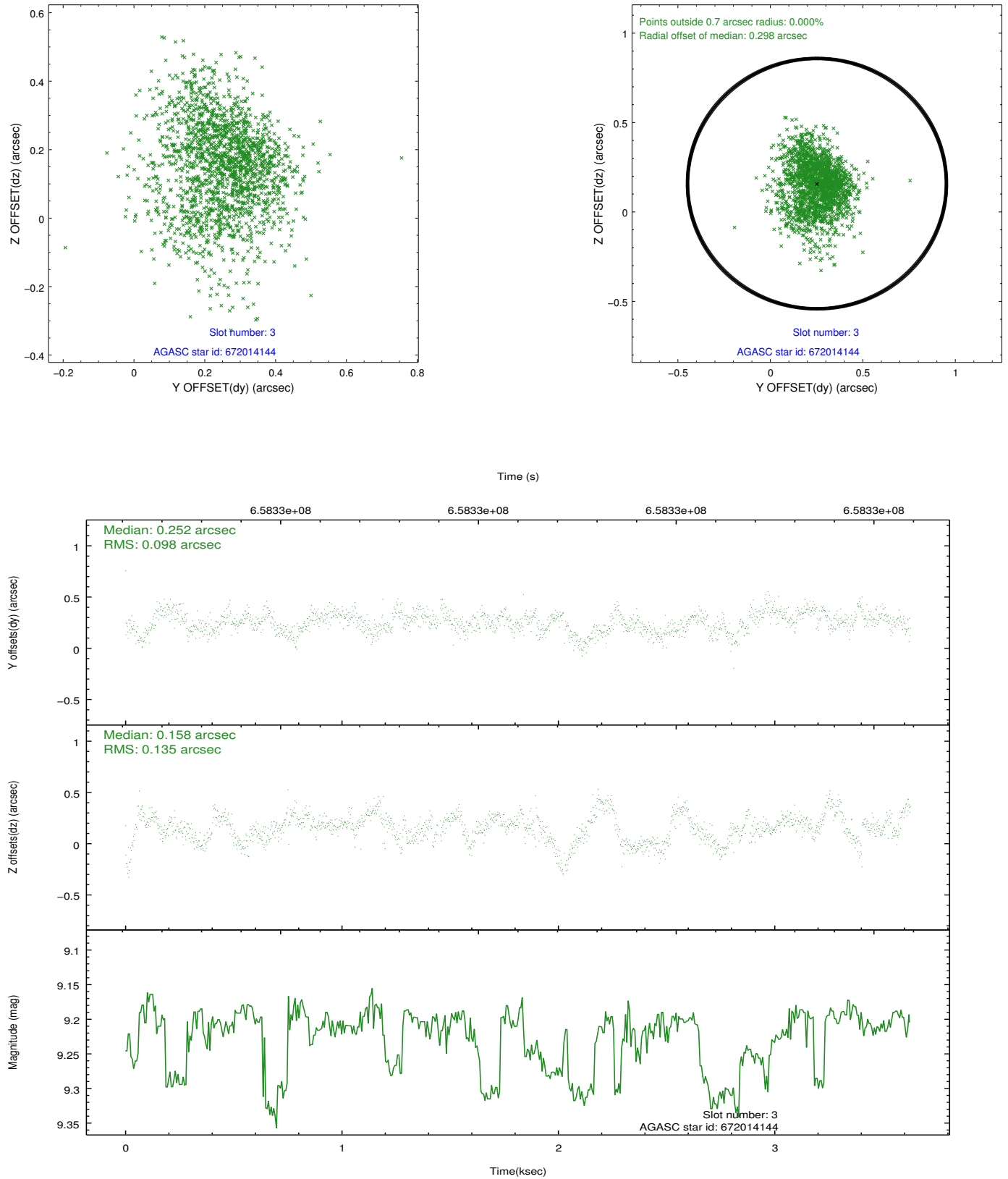


Slot Statistics

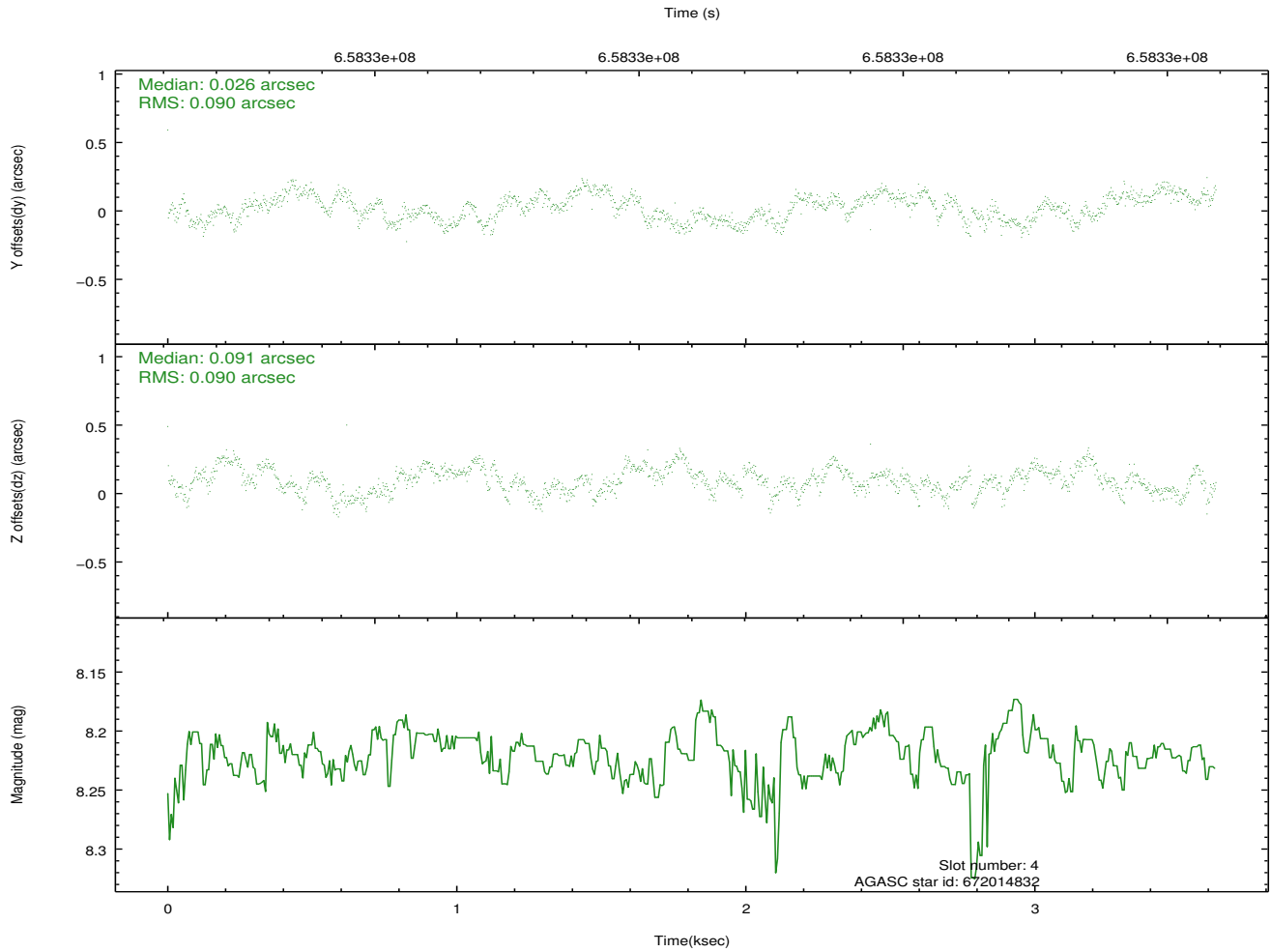
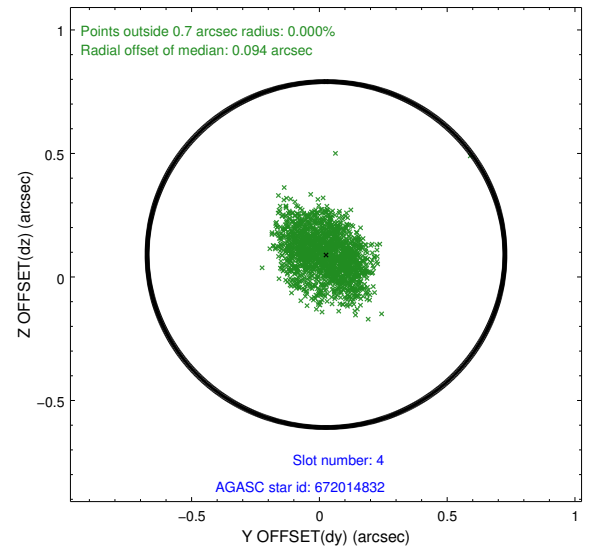
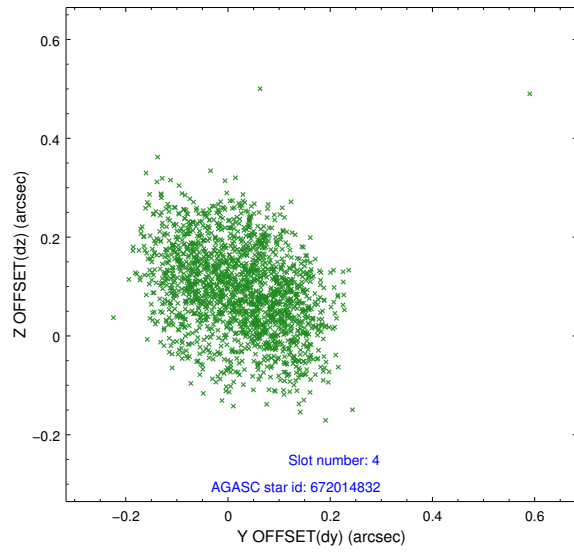
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.25	885	1.000	-0.176	-0.197	0.007	0.013	0.000000	0.000000	926.81	-1737
1	FID		ACIS-S-4	7.28	885	1.000	0.369	0.175	0.008	0.013	0.000000	0.000000	2145.69	165
2	FID		ACIS-S-6	7.43	885	1.000	-0.217	0.032	0.009	0.017	0.000000	0.000000	394.89	804
3	GUIDE	used	672014144	9.22	1762	1.000	0.252	0.158	0.176	0.290	283.242807	-6.276131	-1934.51	87
4	GUIDE	used	672014832	8.22	1770	1.000	0.026	0.091	0.140	0.206	283.344858	-6.562048	-850.87	211
5	GUIDE	used	672016320	8.51	1767	1.000	-0.033	-0.126	0.134	0.214	283.401067	-6.916850	439.41	119
6	GUIDE	used	672028752	9.00	1770	1.000	-0.422	-0.032	0.184	0.315	283.878066	-7.038875	1252.54	1680
7	GUIDE	used	672014520	9.18	1766	1.000	0.176	-0.069	0.276	0.416	283.553381	-7.325223	1995.91	318

2.4 Star Slots

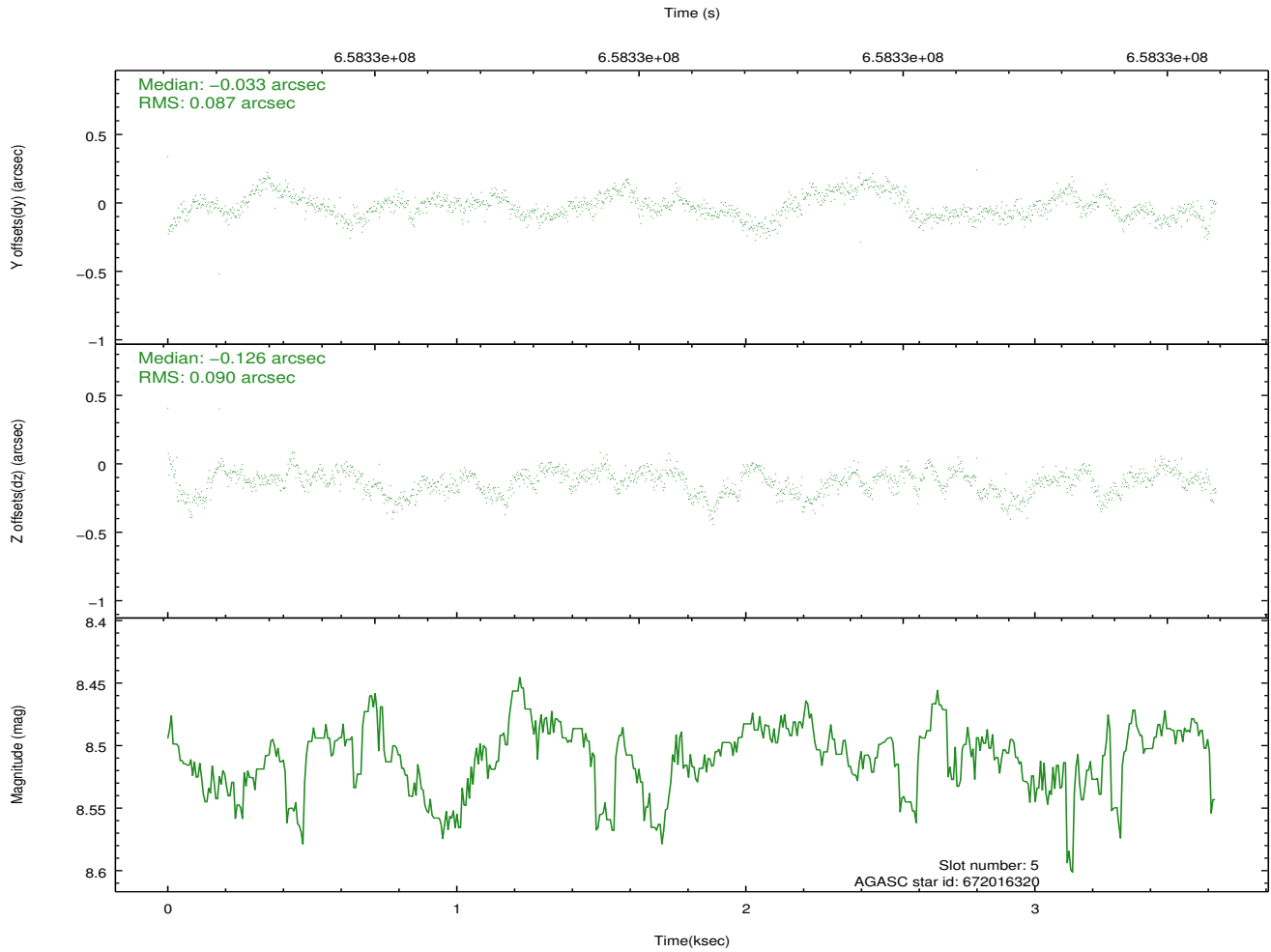
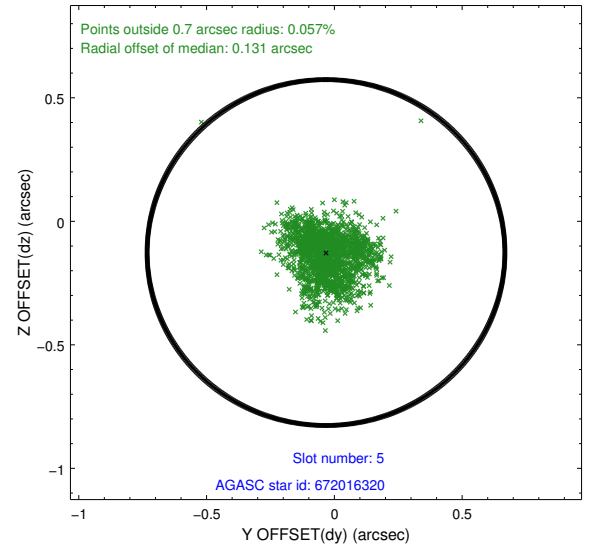
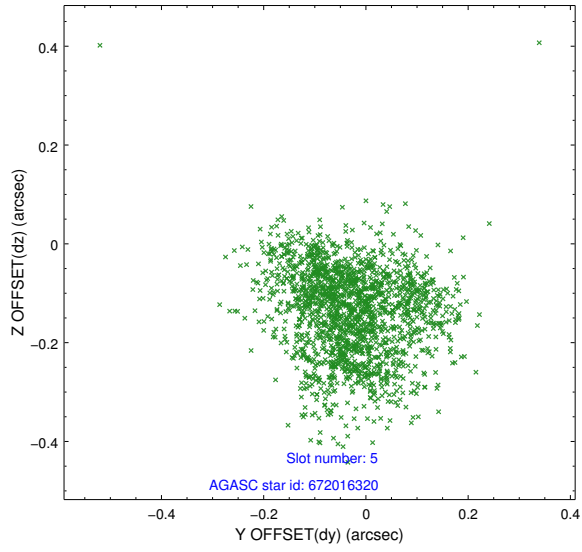
2.4.1 Slot 3



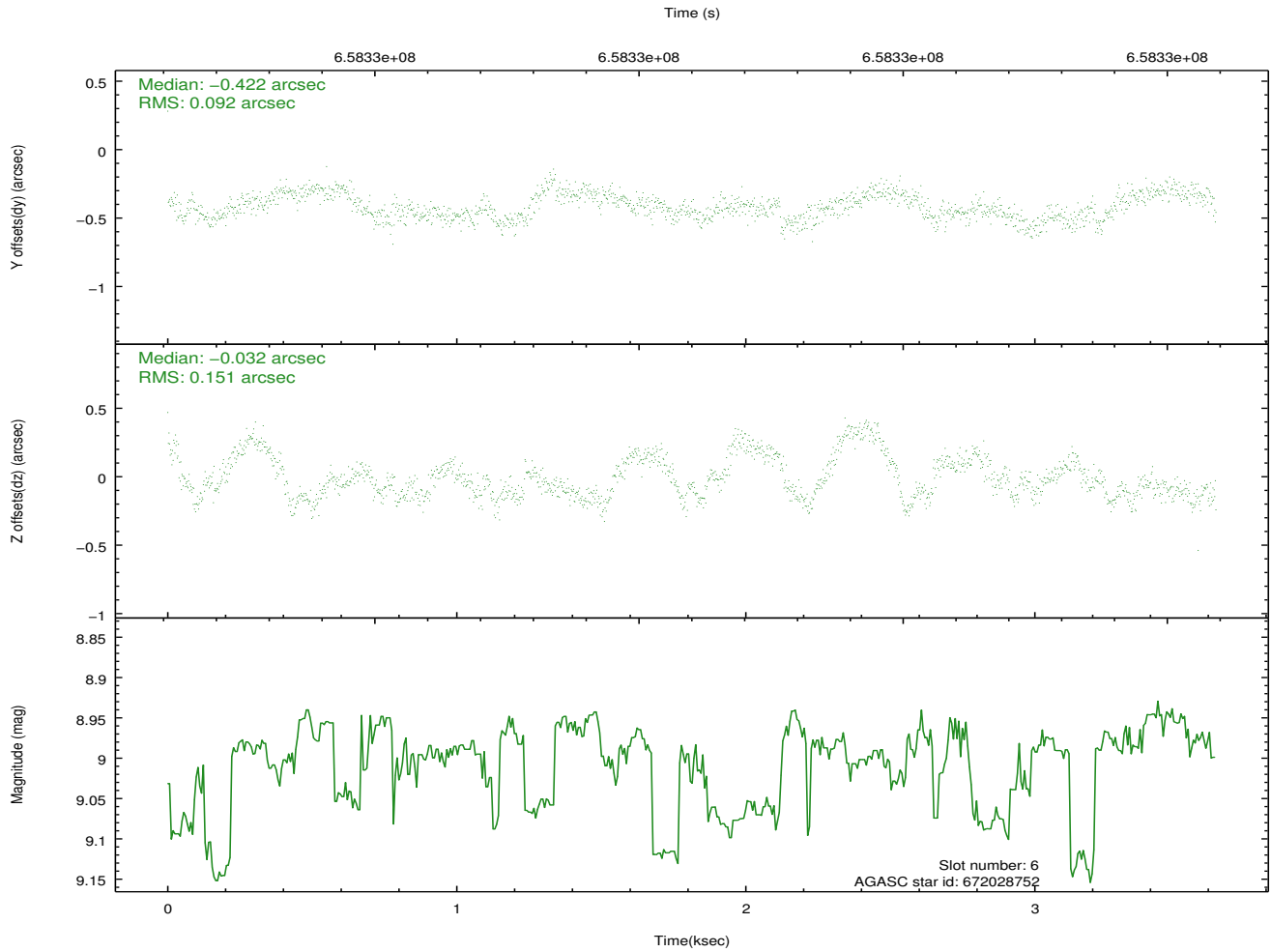
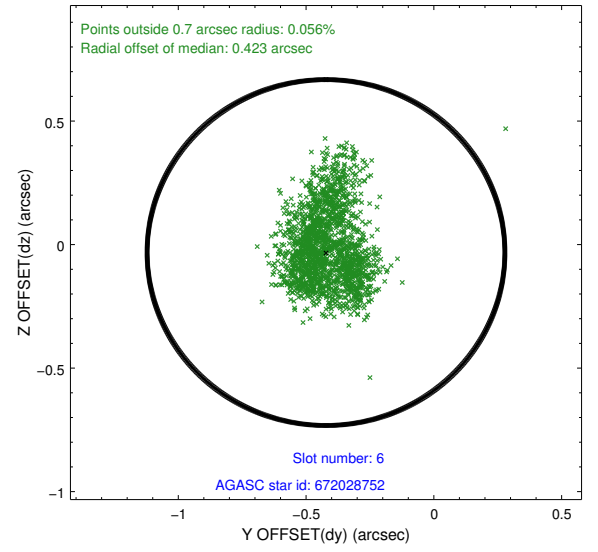
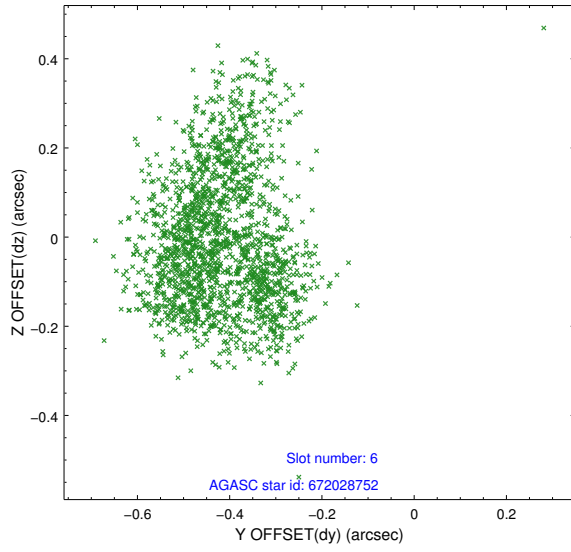
2.4.2 Slot 4



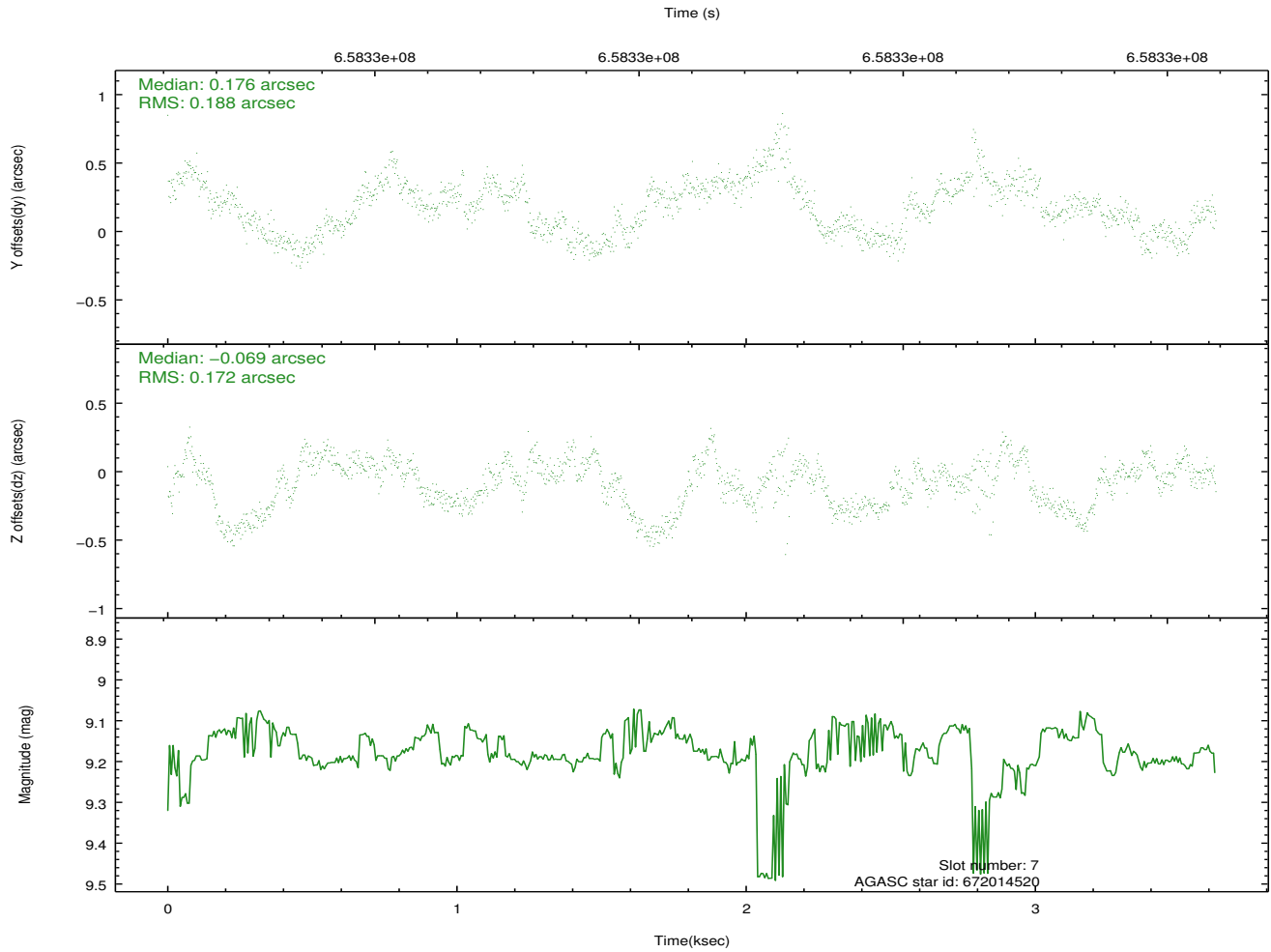
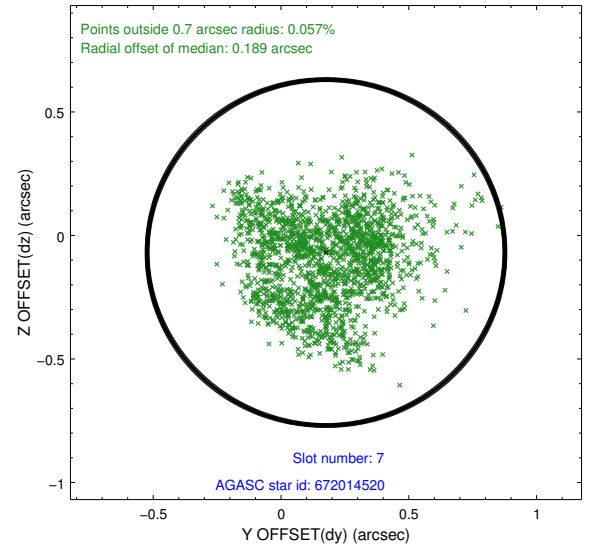
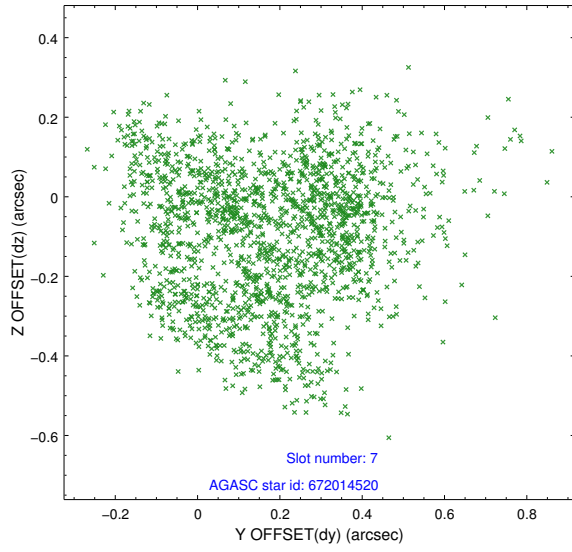
2.4.3 Slot 5



2.4.4 Slot 6

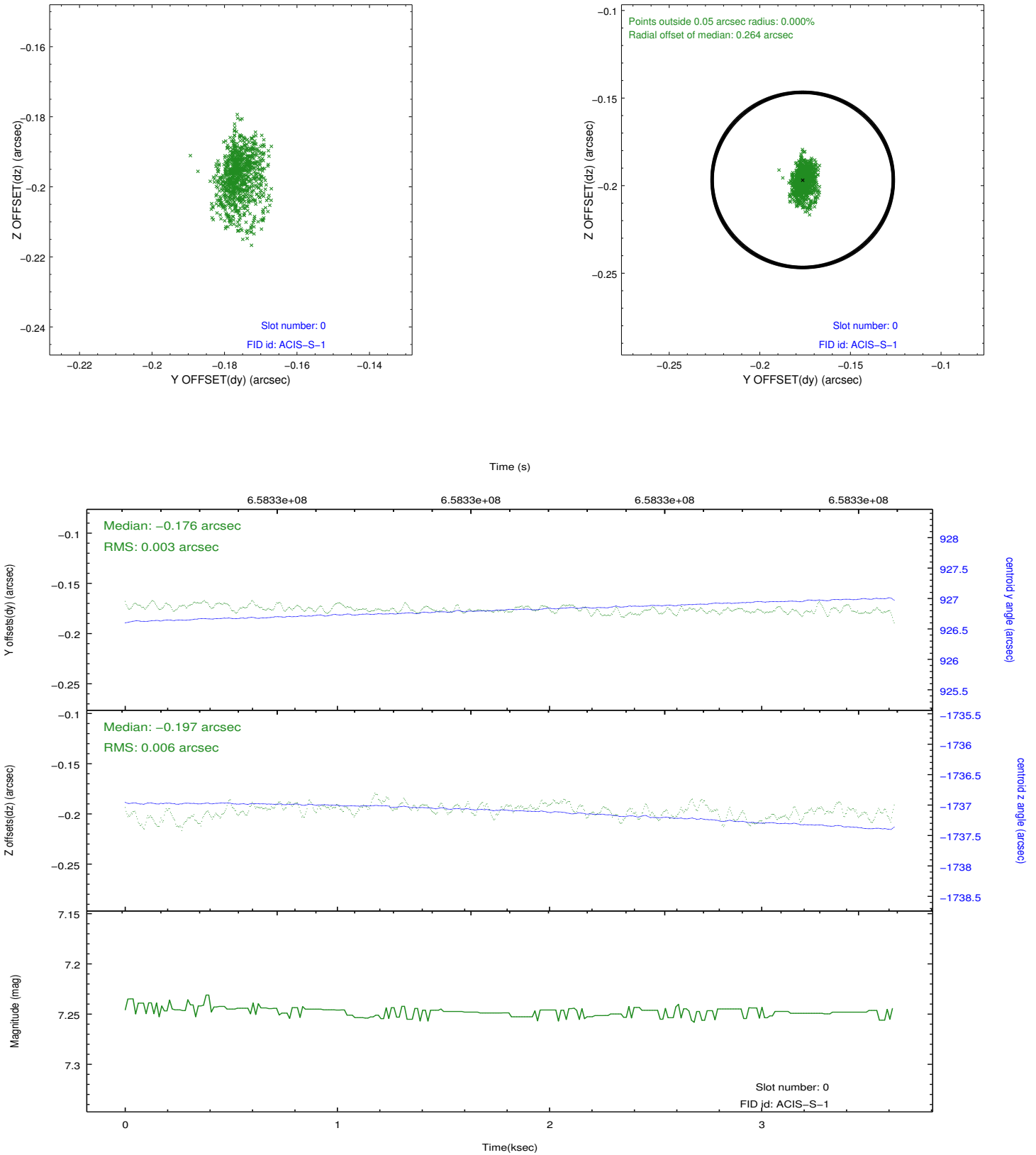


2.4.5 Slot 7

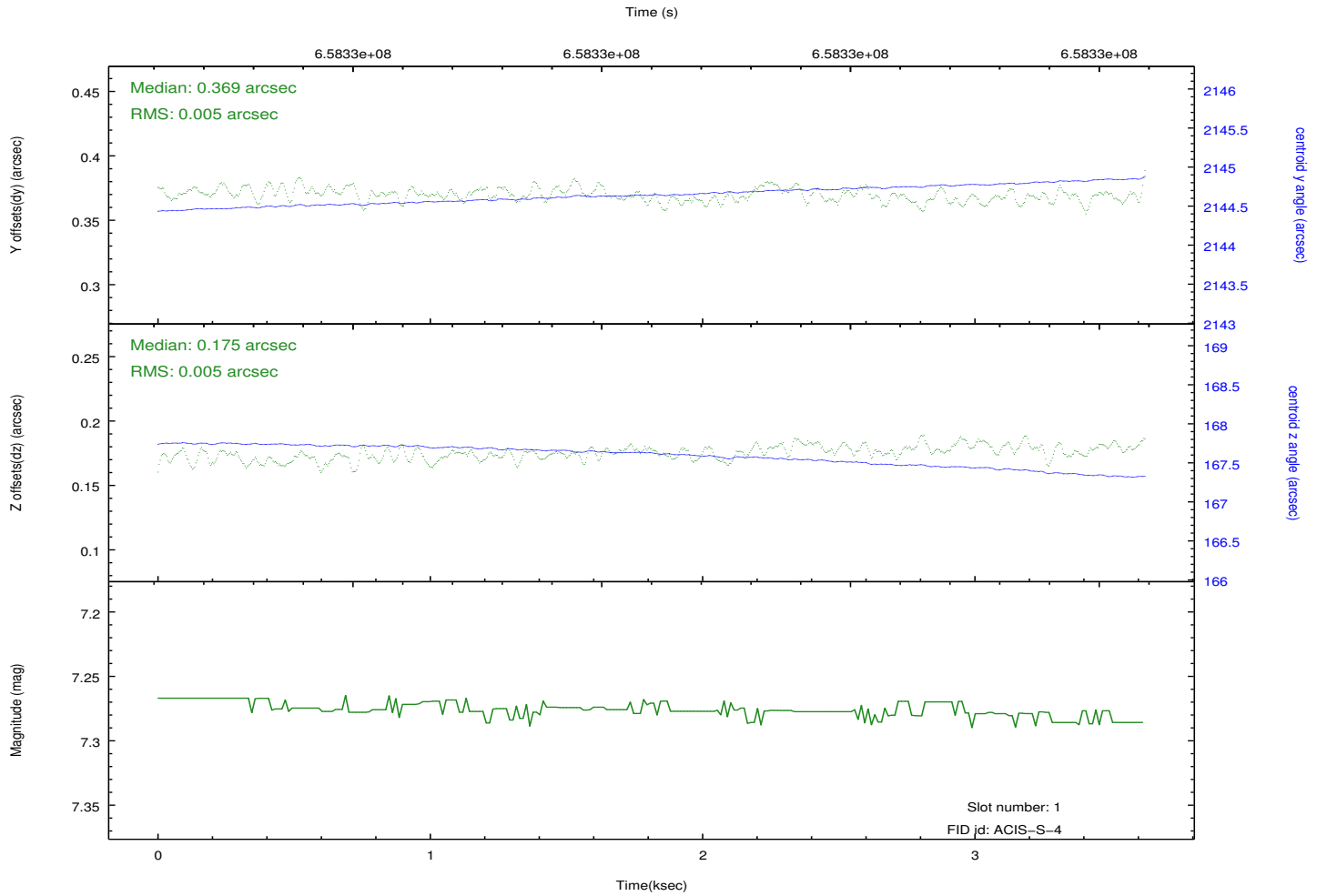
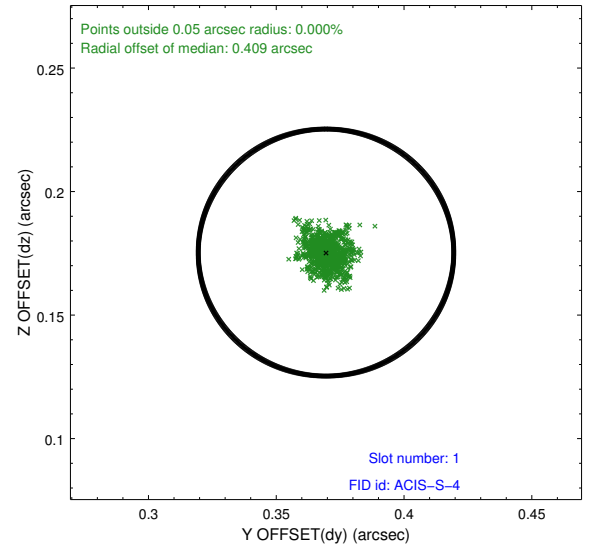
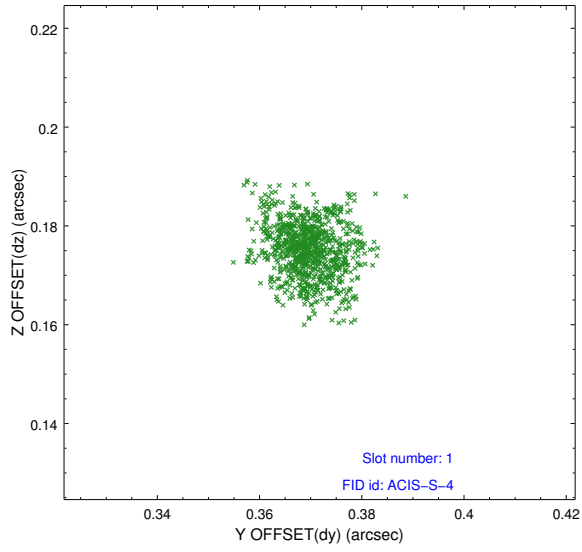


2.5 FID Slots

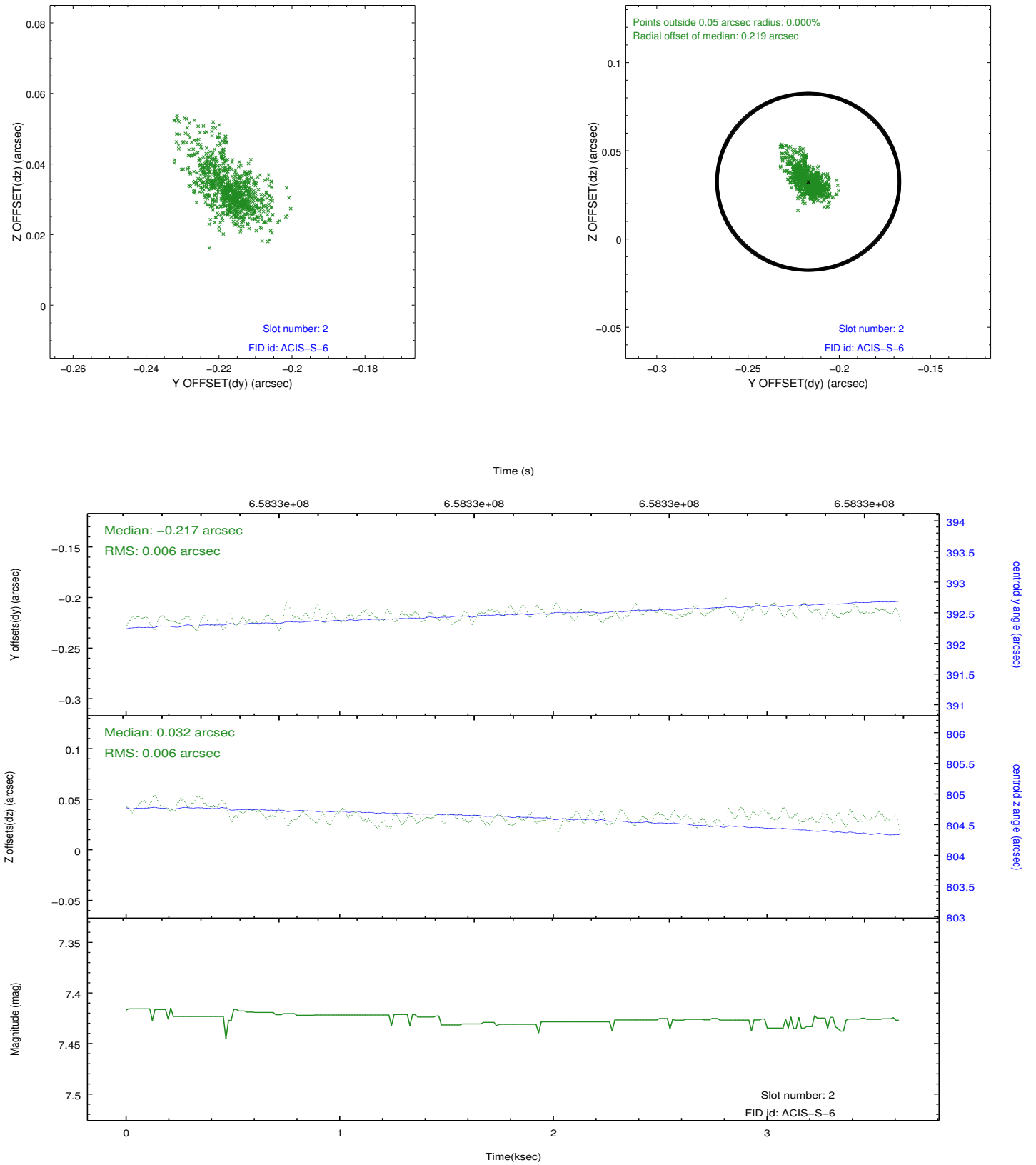
2.5.1 Slot 0



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)	2018.11.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5464000273943

A.2 Comments