

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21513 - L2 Version 1
Chandra X-Ray Center

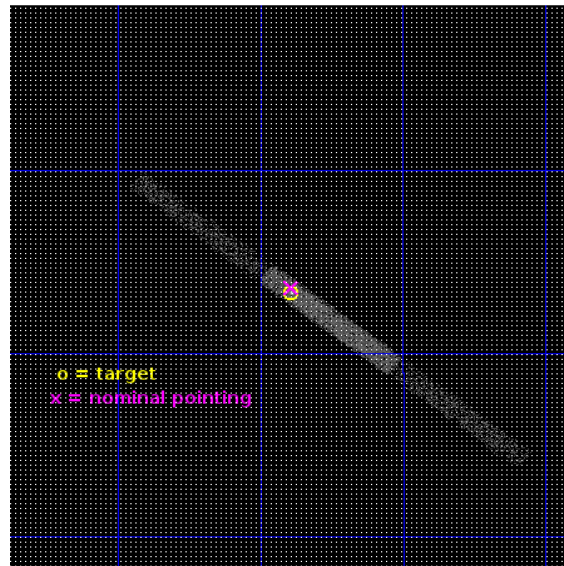
L2 Processing Date : Jan 15 2019

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1 Front

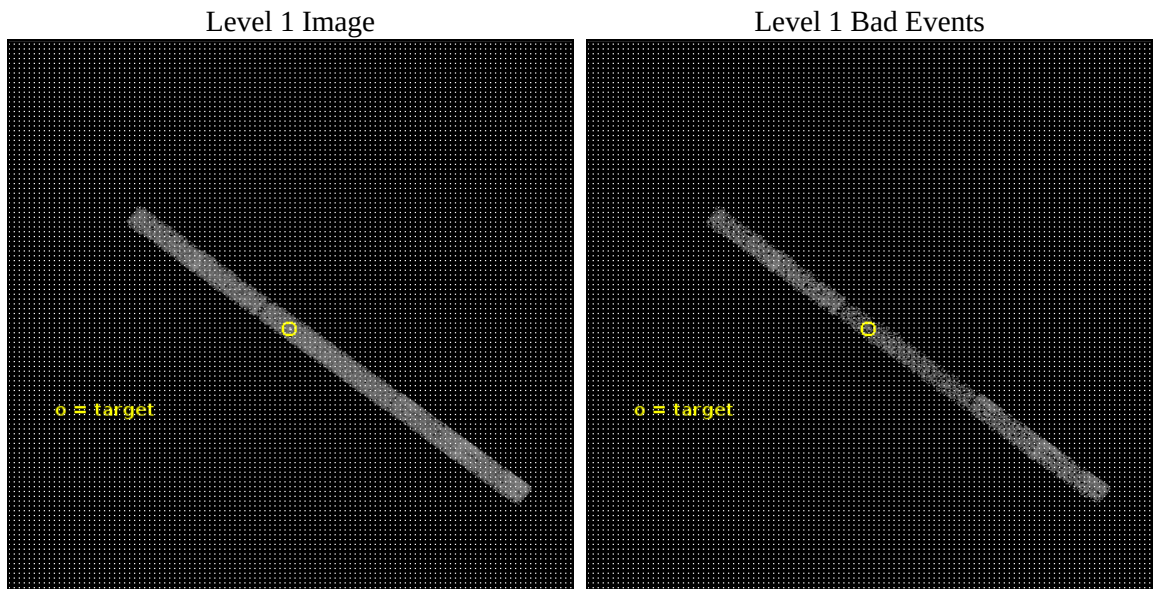
seq_num	703806	Sequence number
obs_id	21513	Observation id
title	X-ray Properties of Extreme Super Eddington Accreting Massive Black Holes	Proposal title
observer	Michael Brotherton	Principal investigator
object	SDSS J083553.46+055317.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.972917	Observer's specified target RA [deg]
dec_targ	5.888083	Observer's specified target Dec [deg]
ra_nom	128.97280030045	Nominal RA [deg]
dec_nom	5.8929434890892	Nominal Dec [deg]
roll_nom	36.846373551647	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9144.0003634691	Sum of GTIs [s]
livetime	8558.5926277323	Livetime [s]
ontime6	9144.0003634691	Sum of GTIs [s]
ontime7	9144.0003634691	Sum of GTIs [s]
ontime8	9144.0003634691	Sum of GTIs [s]
l2events	9477	Number of level 2 events



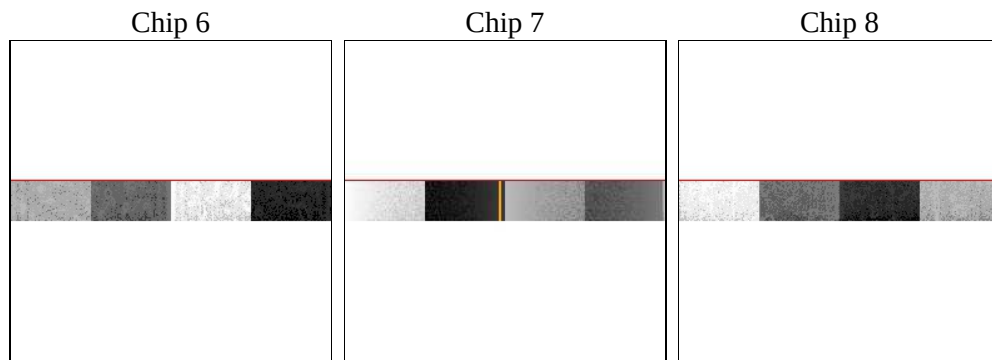
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9040.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	9144.0003634691	Sum of GTIs [s]
caldbver	4.8.2	 	ontime6	9144.0003634691	Sum of GTIs [s]
date	2019-01-15T23:44:00	Date and time of file creation	ontime7	9144.0003634691	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	9144.0003634691	Sum of GTIs [s]
			l1events	41263	Number of level 1 events

2.1.4 Events

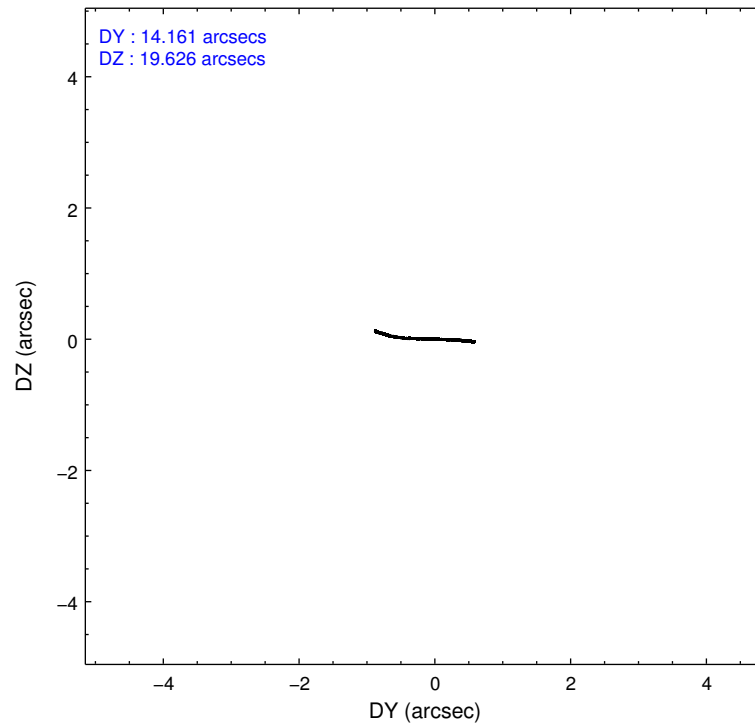
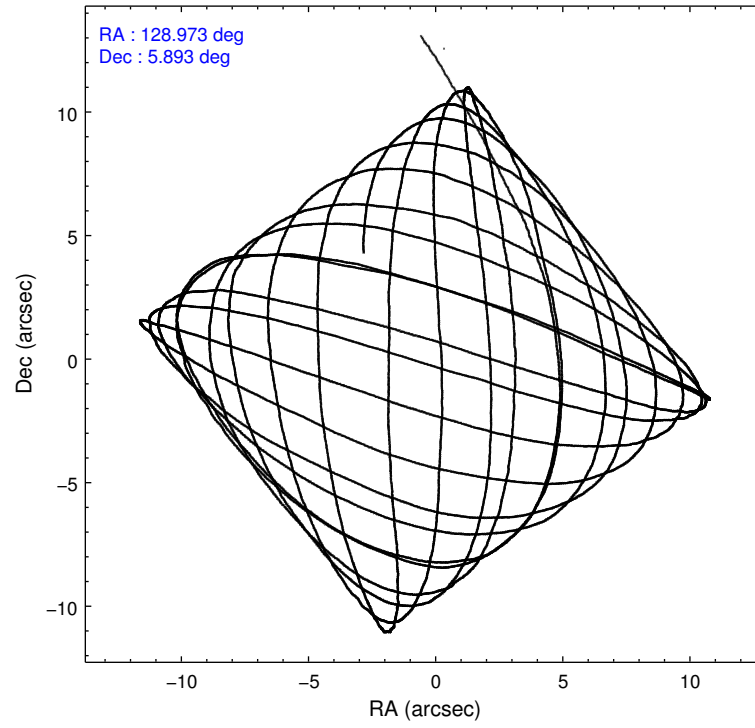
	ccd 6	ccd 7	ccd 8
level 1 events	11325	14025	15913
rejected events	10064	6432	12015
rejected %	88%	45%	75%

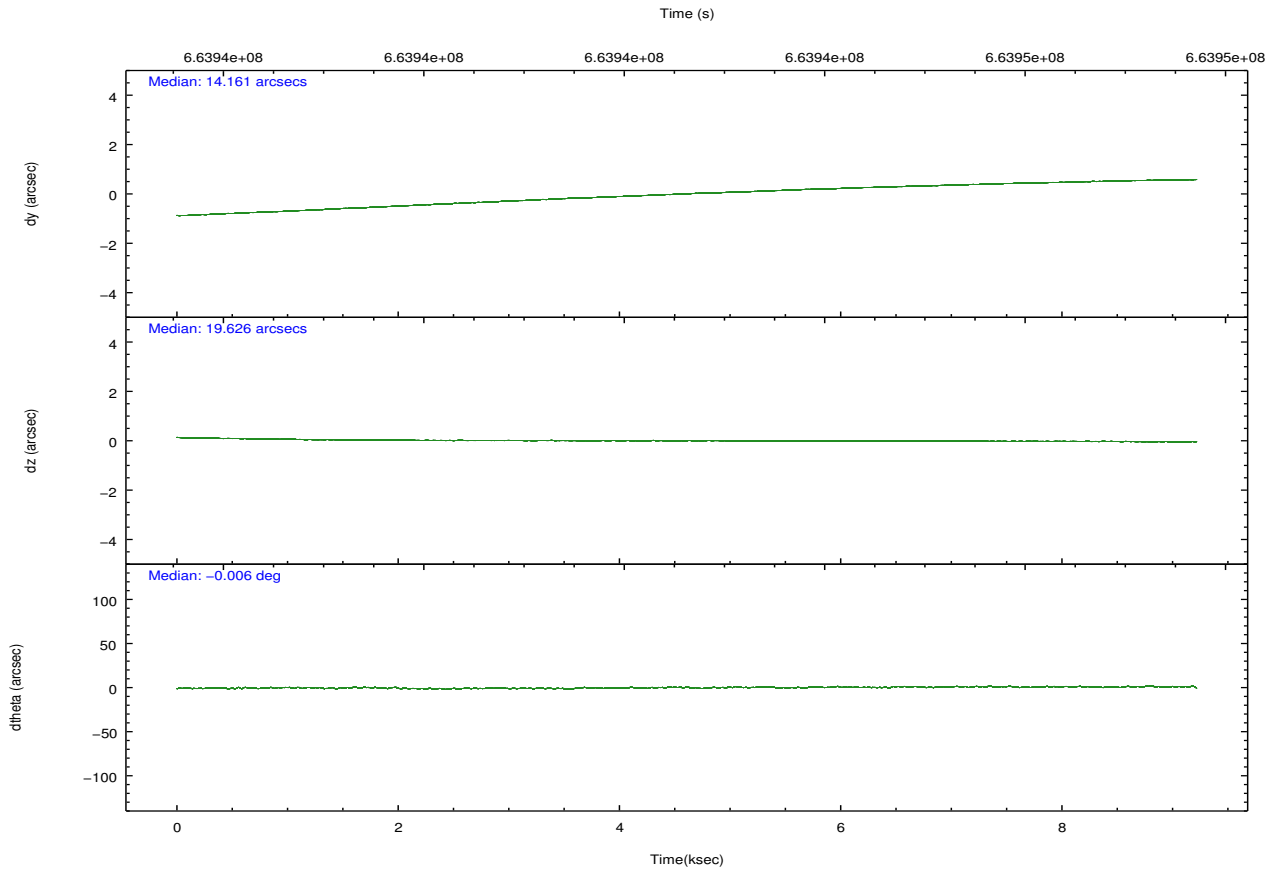
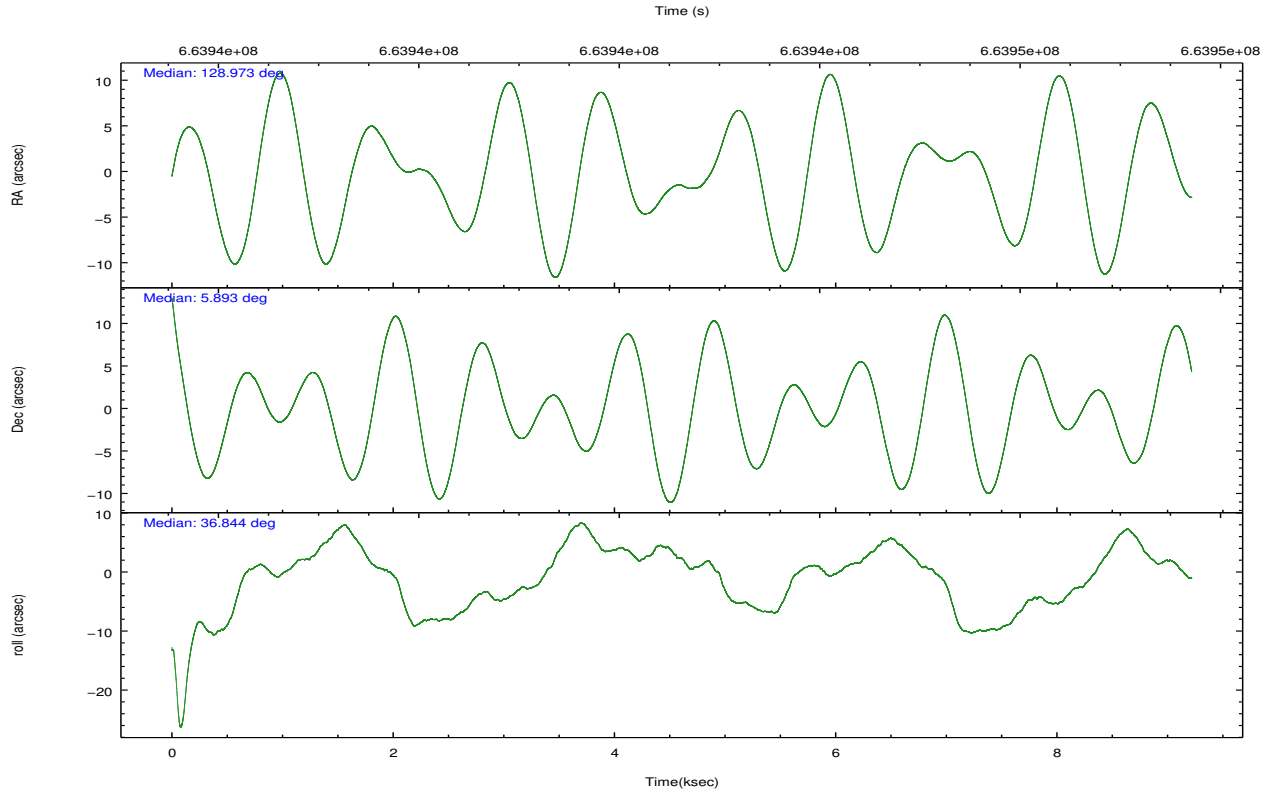
	ccd 6	ccd 7	ccd 8
grade 0 events	334	1074	888
	2%	7%	5%
grade 1 events	1	28	4
	0%	0%	0%
grade 2 events	224	1717	821
	1%	12%	5%
grade 3 events	224	867	481
	1%	6%	3%
grade 4 events	193	802	460
	1%	5%	2%
grade 5 events	434	1258	599
	3%	8%	3%
grade 6 events	286	3134	1248
	2%	22%	7%
grade 7 events	9629	5145	11412
	85%	36%	71%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	128.962273	128.9728003004533	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	5.867530	5.892943489089245	Subarray start row	449	449
[deg] Pointing Roll	36.690798	36.84637355164669	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.6
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	663938204.184000	663937470.93674			
Observation start date	2019-01-15T11:15:35	2019-01-15T11:04:30			
[s] Observation end time (MET)	663947244.184000	663948317.99989			
Observation end date	2019-01-15T13:46:15	2019-01-15T14:05:17			
Read mode	TIMED	TIMED			

2.3 Aspect



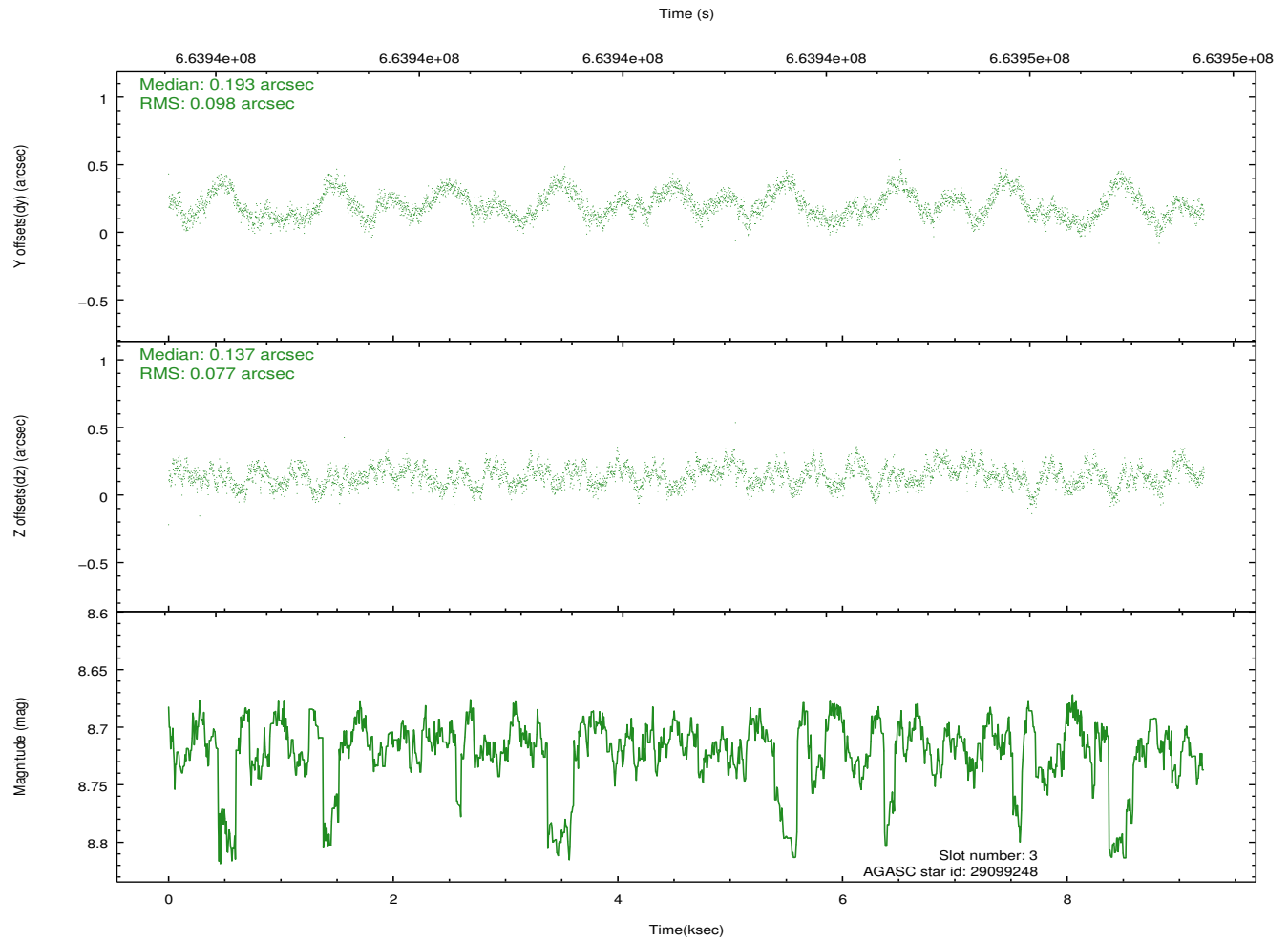
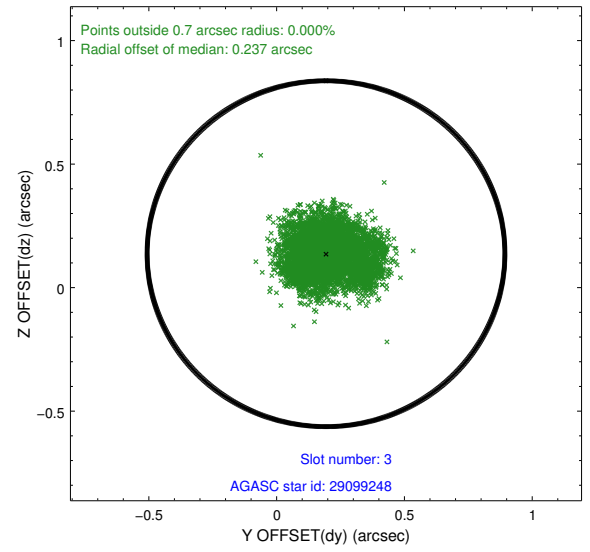
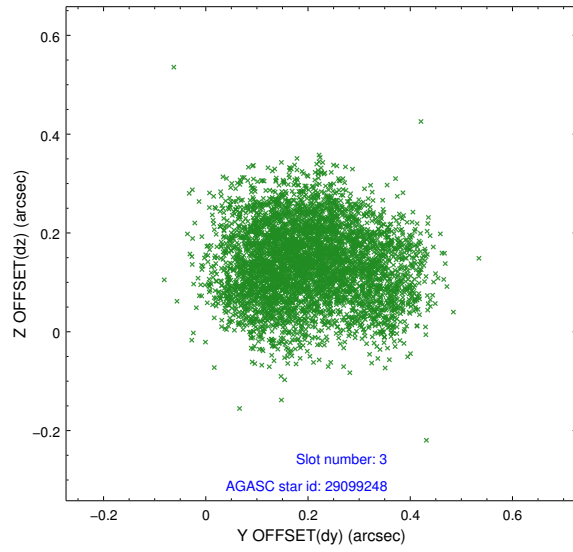


Slot Statistics

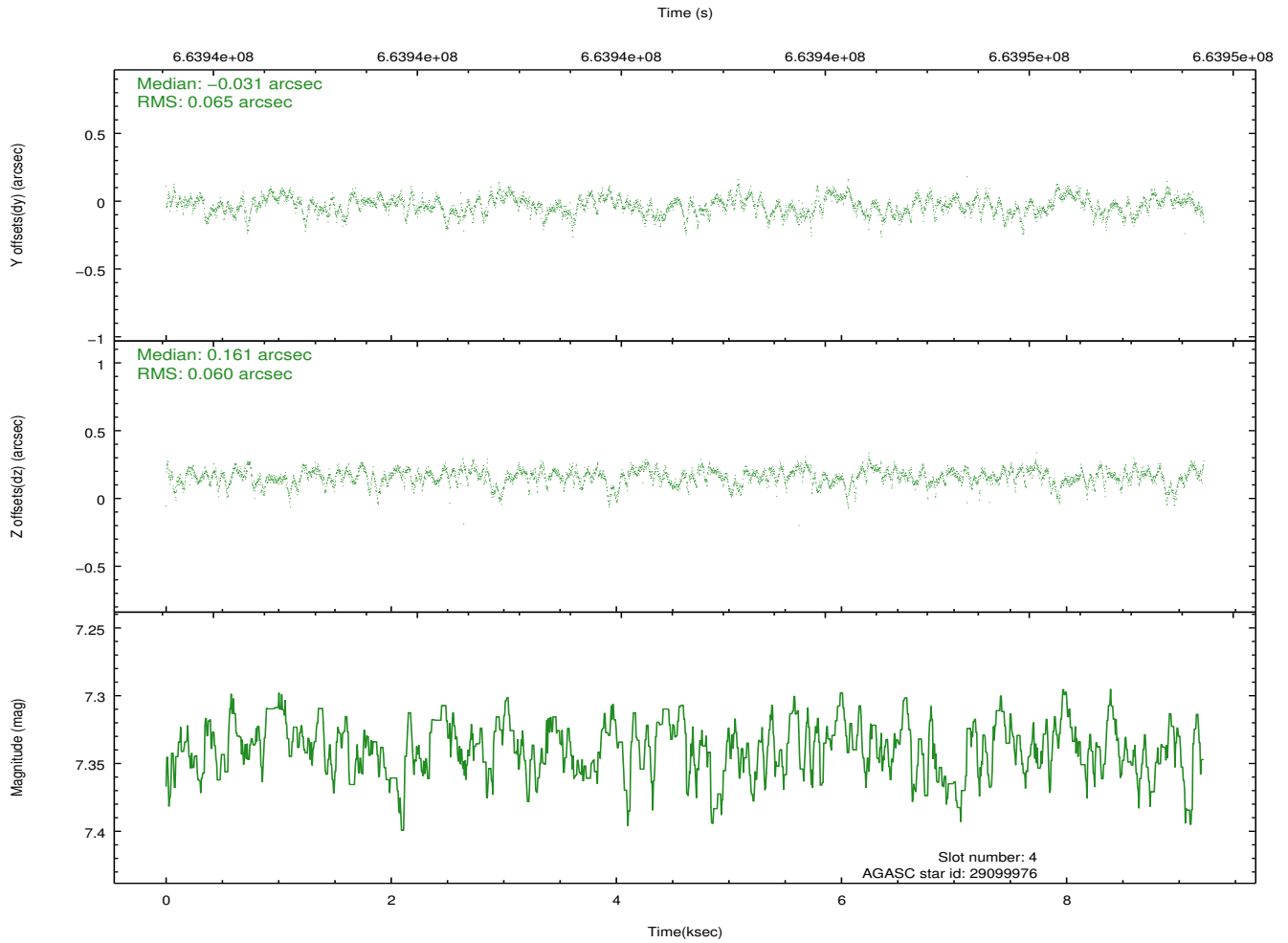
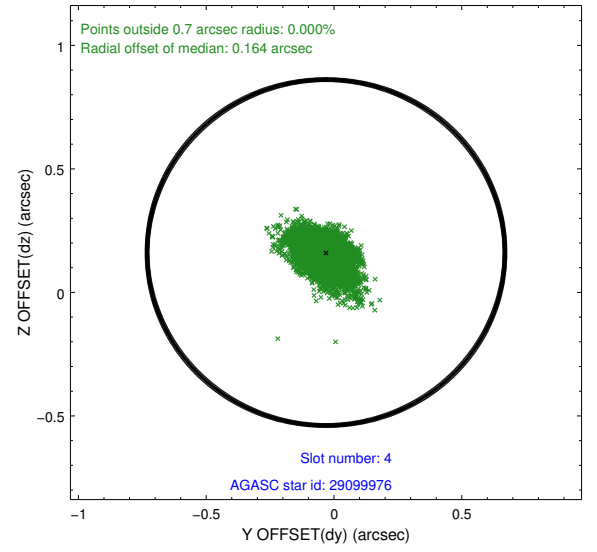
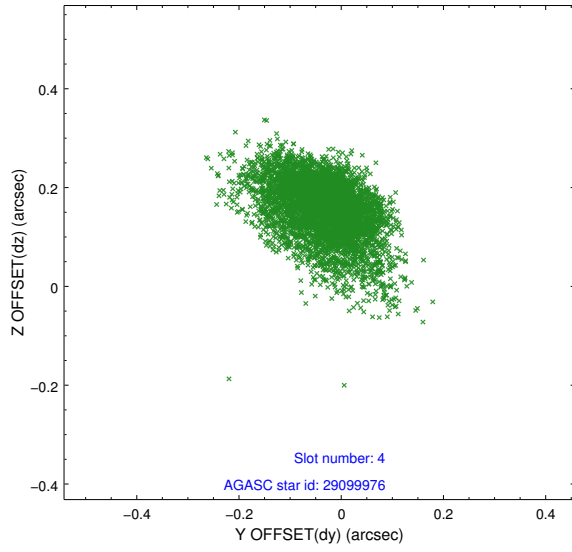
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2249	1.000	-0.318	-0.177	0.022	0.043	0.000000	0.000000	-767.29	-1741
1	FID		ACIS-S-4	7.17	2249	1.000	0.784	0.201	0.020	0.049	0.000000	0.000000	2146.73	167
2	FID		ACIS-S-5	7.13	2249	1.000	-0.499	-0.012	0.009	0.015	0.000000	0.000000	-1819.65	161
3	GUIDE	used	29099248	8.72	4493	1.000	0.193	0.137	0.137	0.208	128.742705	5.756257	-870.30	148
4	GUIDE	used	29099976	7.34	4497	1.000	-0.031	0.161	0.091	0.159	129.319590	5.991311	1292.21	-406
5	GUIDE	used	29104392	9.10	4489	1.000	-0.477	-0.734	0.111	0.183	128.835353	6.465371	921.51	1996
6	GUIDE	used	29106904	9.04	4494	1.000	0.318	0.121	0.147	0.232	128.221454	5.977583	-1888.98	1904
7	GUIDE	used	29242120	9.17	4489	1.000	-0.007	0.328	0.187	0.291	129.551961	5.804342	1557.98	-1442

2.4 Star Slots

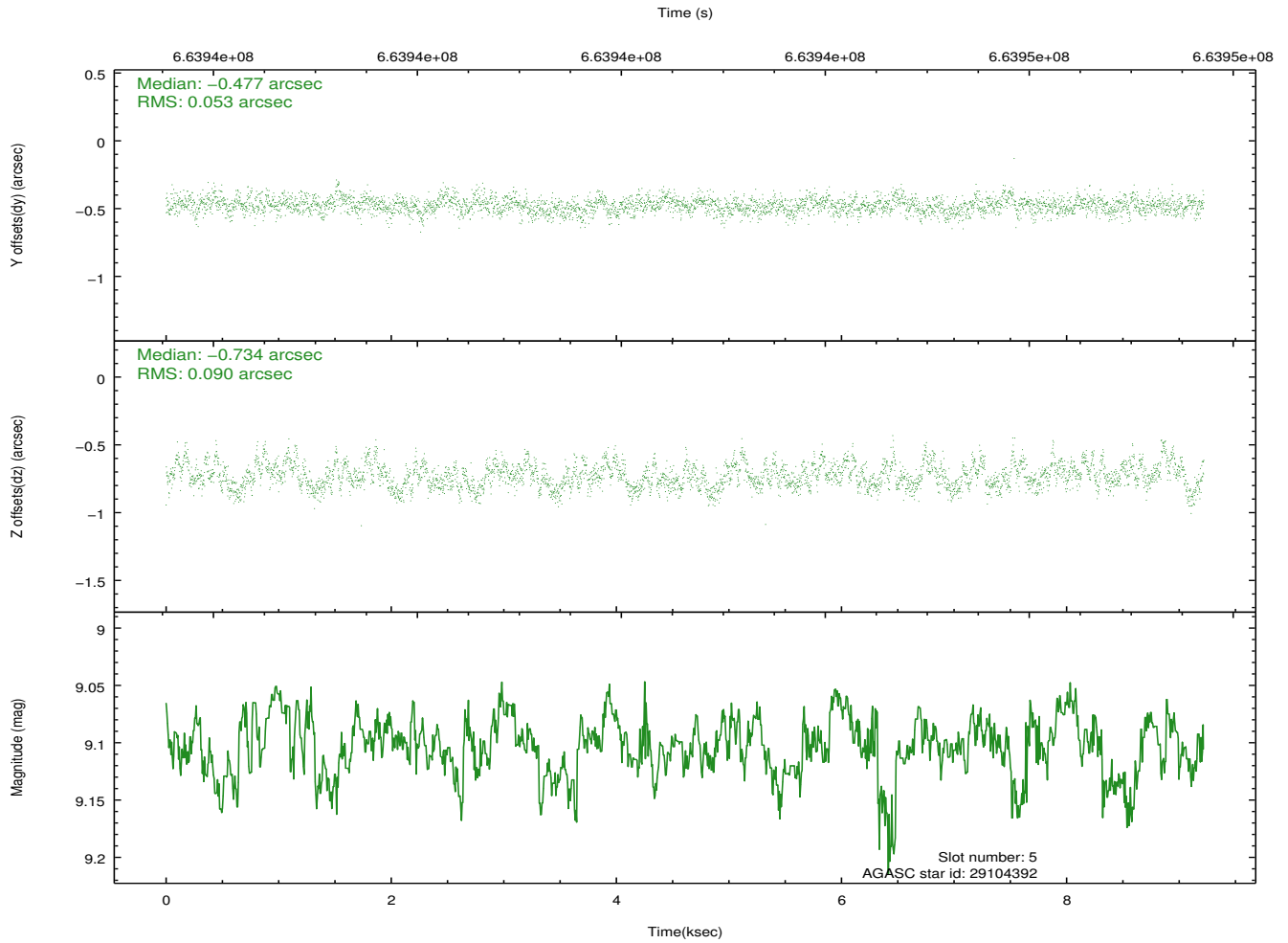
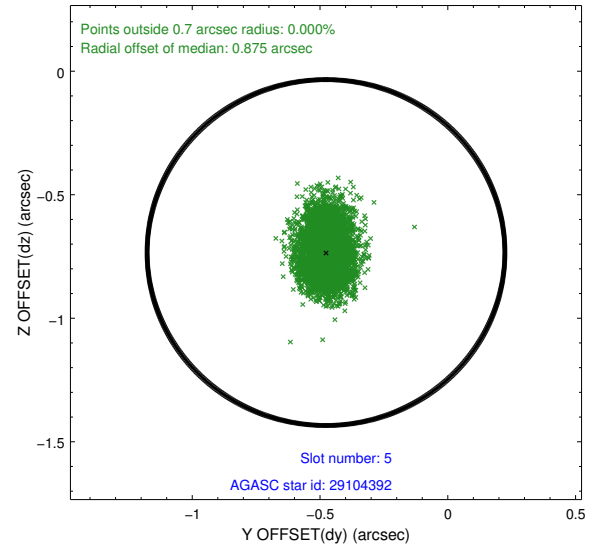
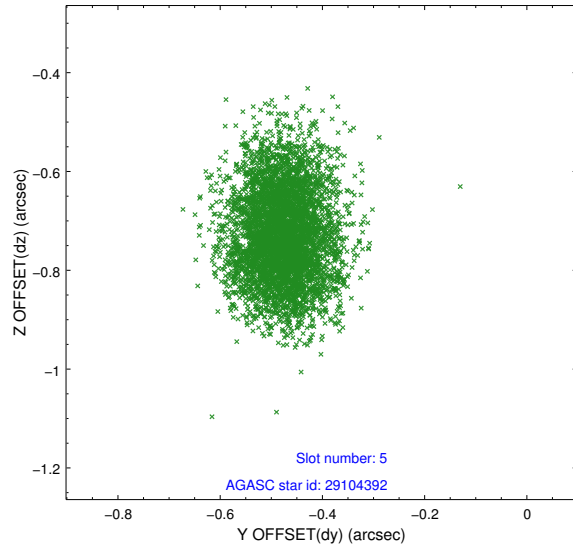
2.4.1 Slot 3



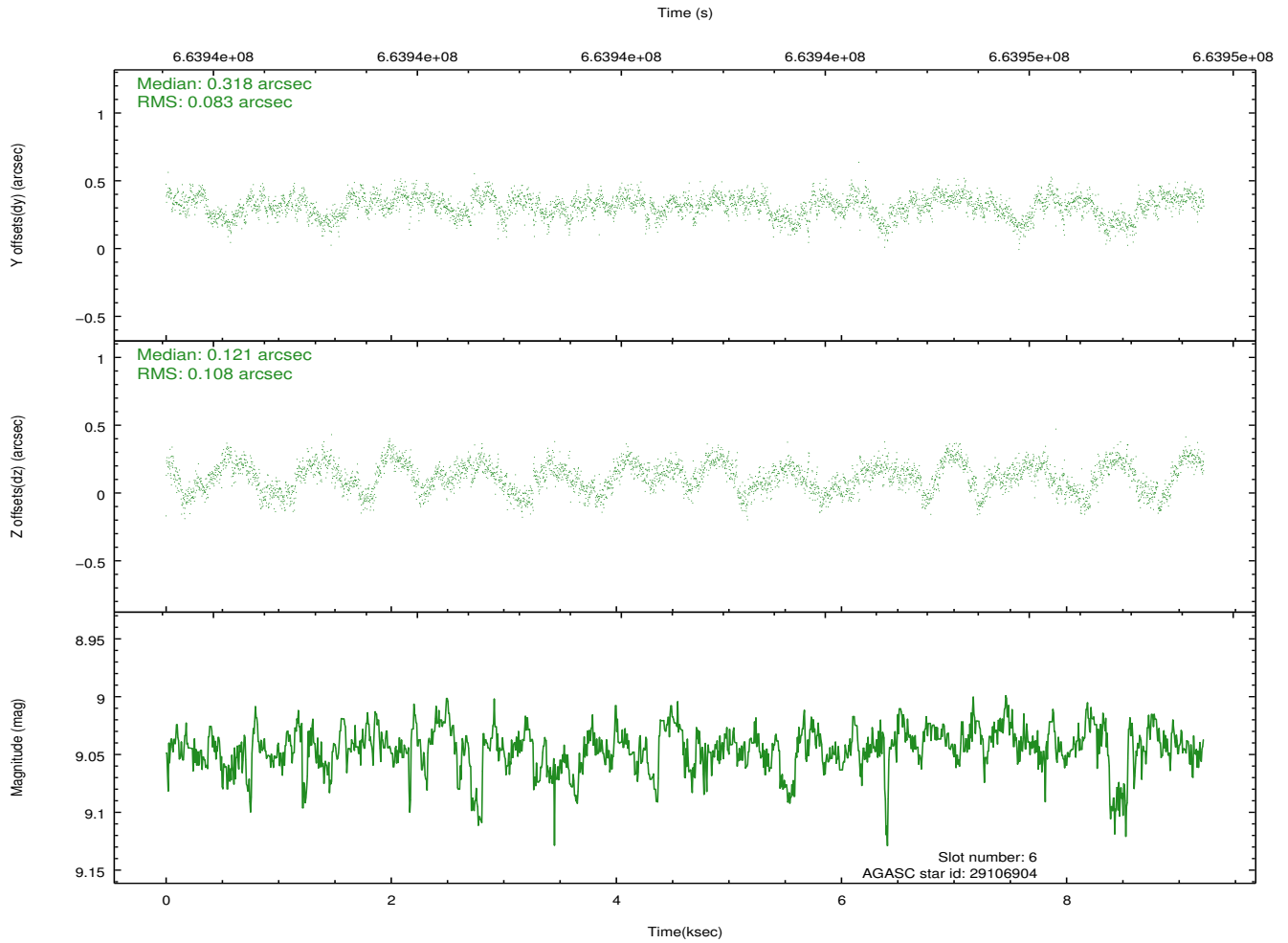
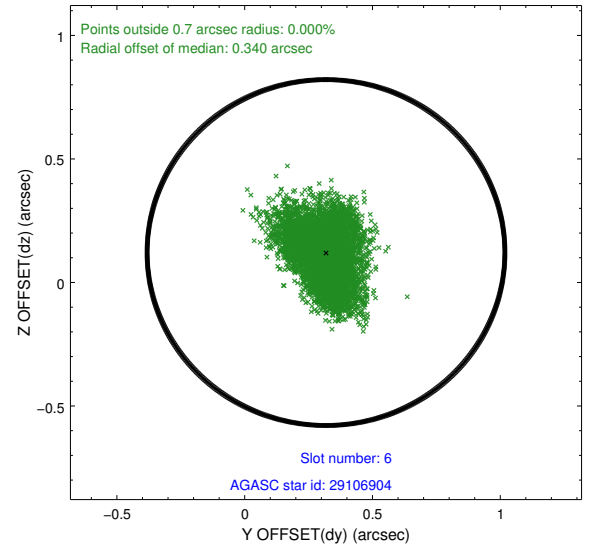
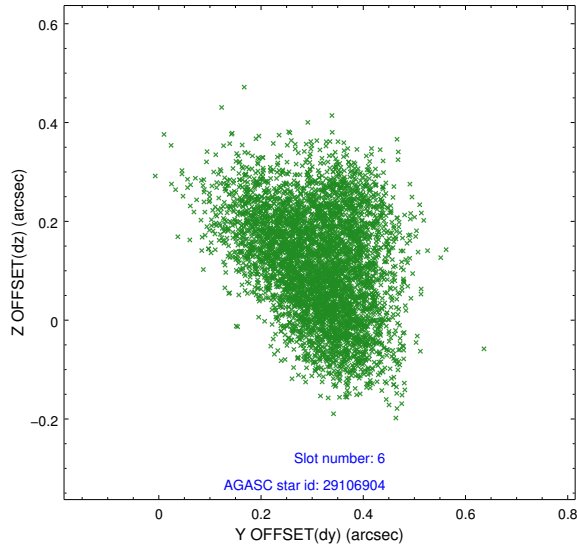
2.4.2 Slot 4



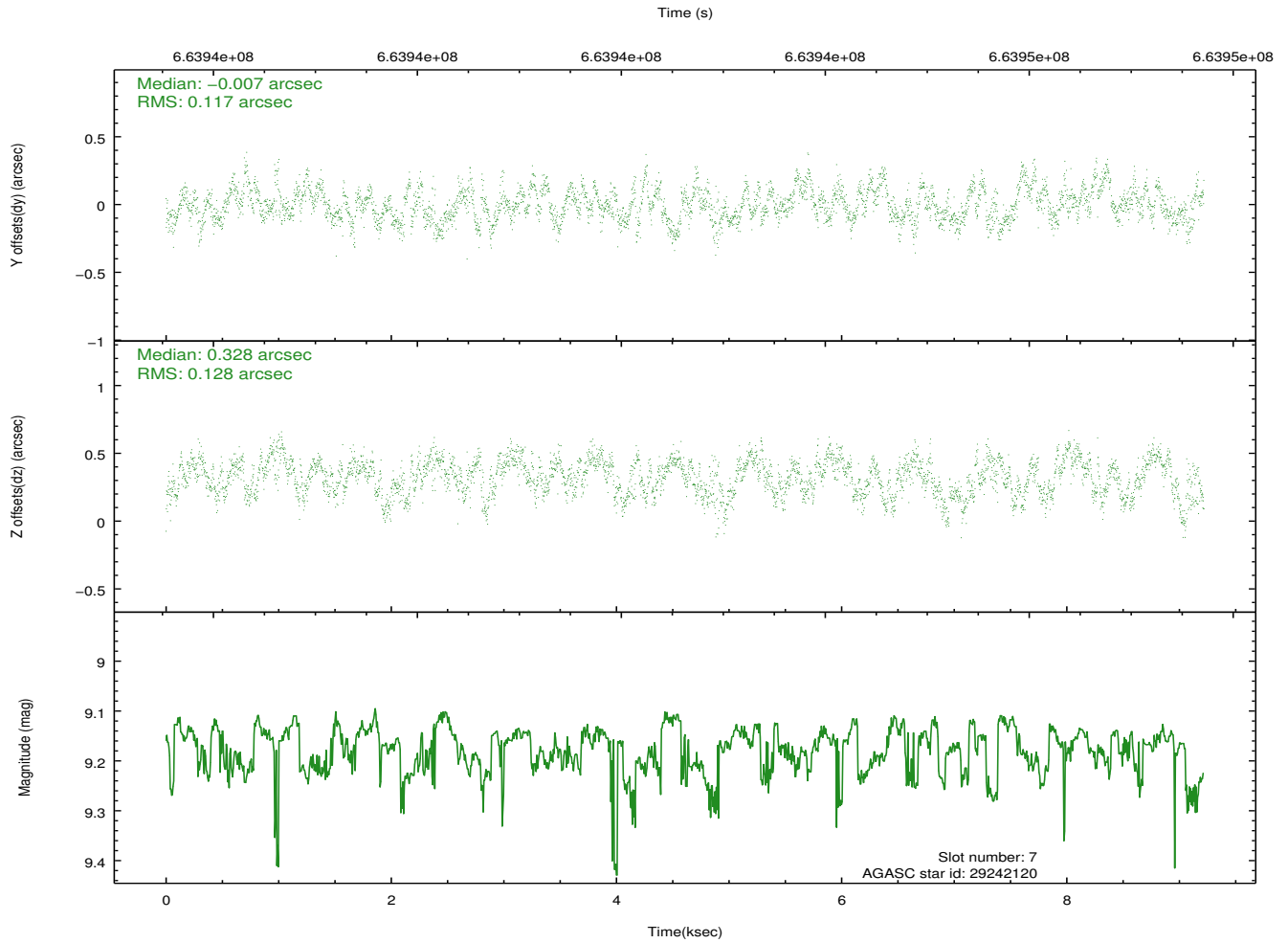
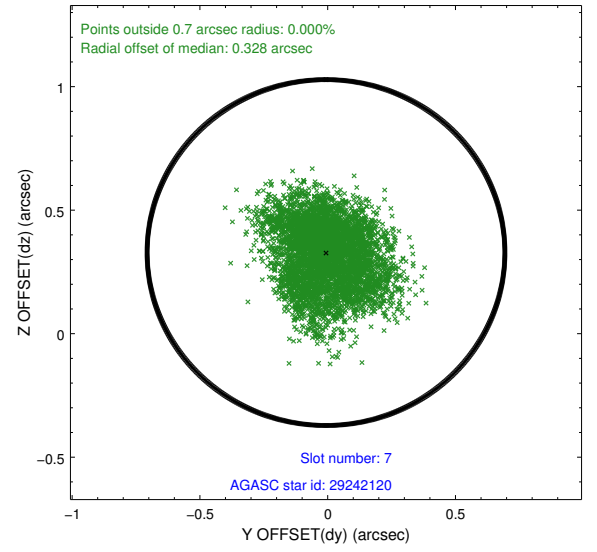
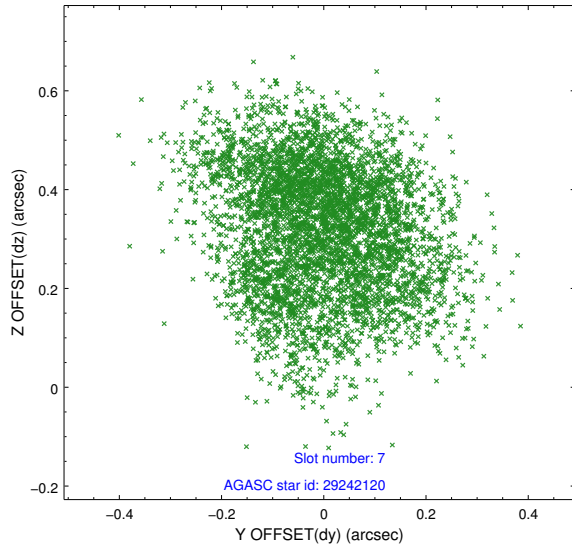
2.4.3 Slot 5



2.4.4 Slot 6

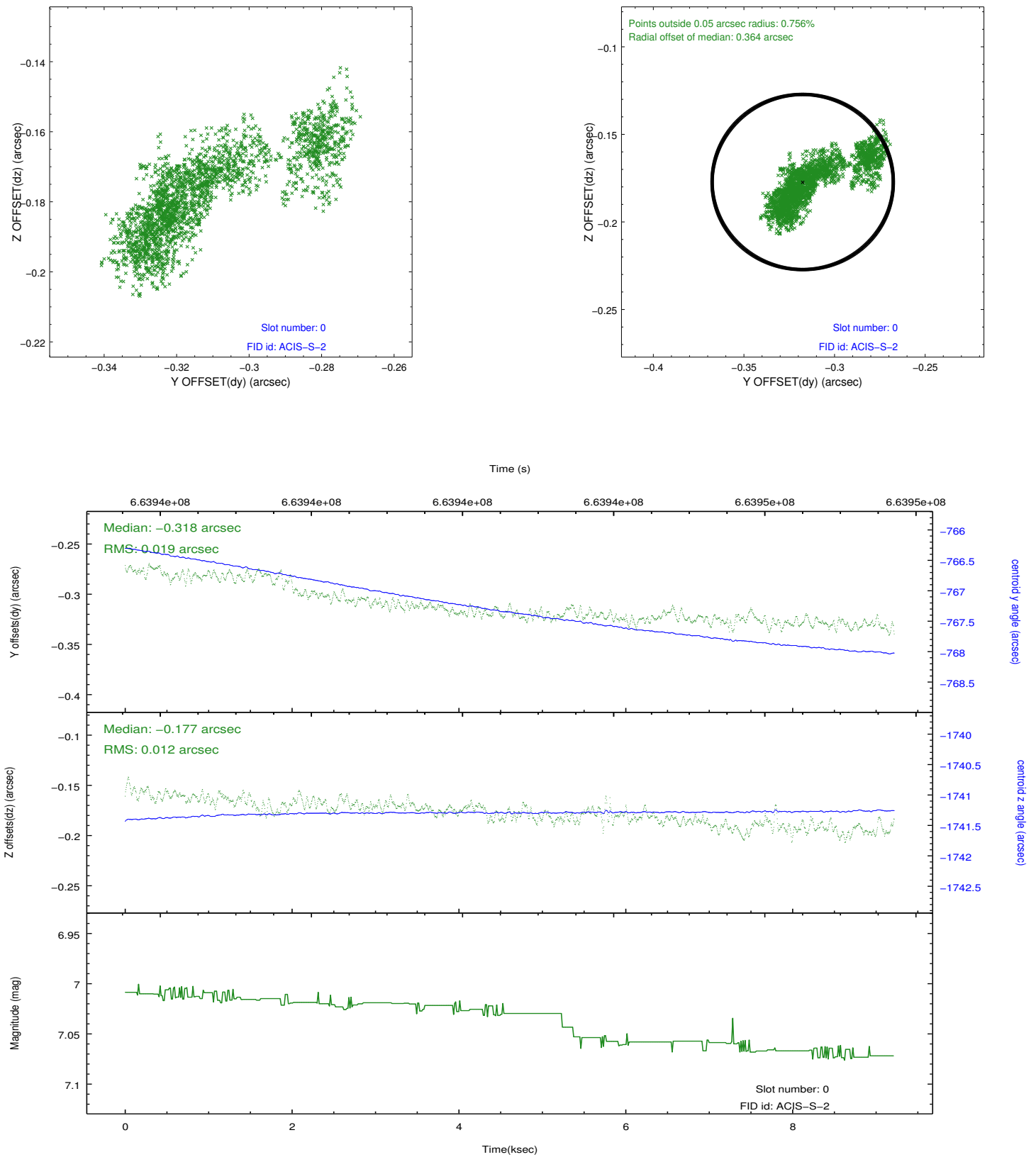


2.4.5 Slot 7

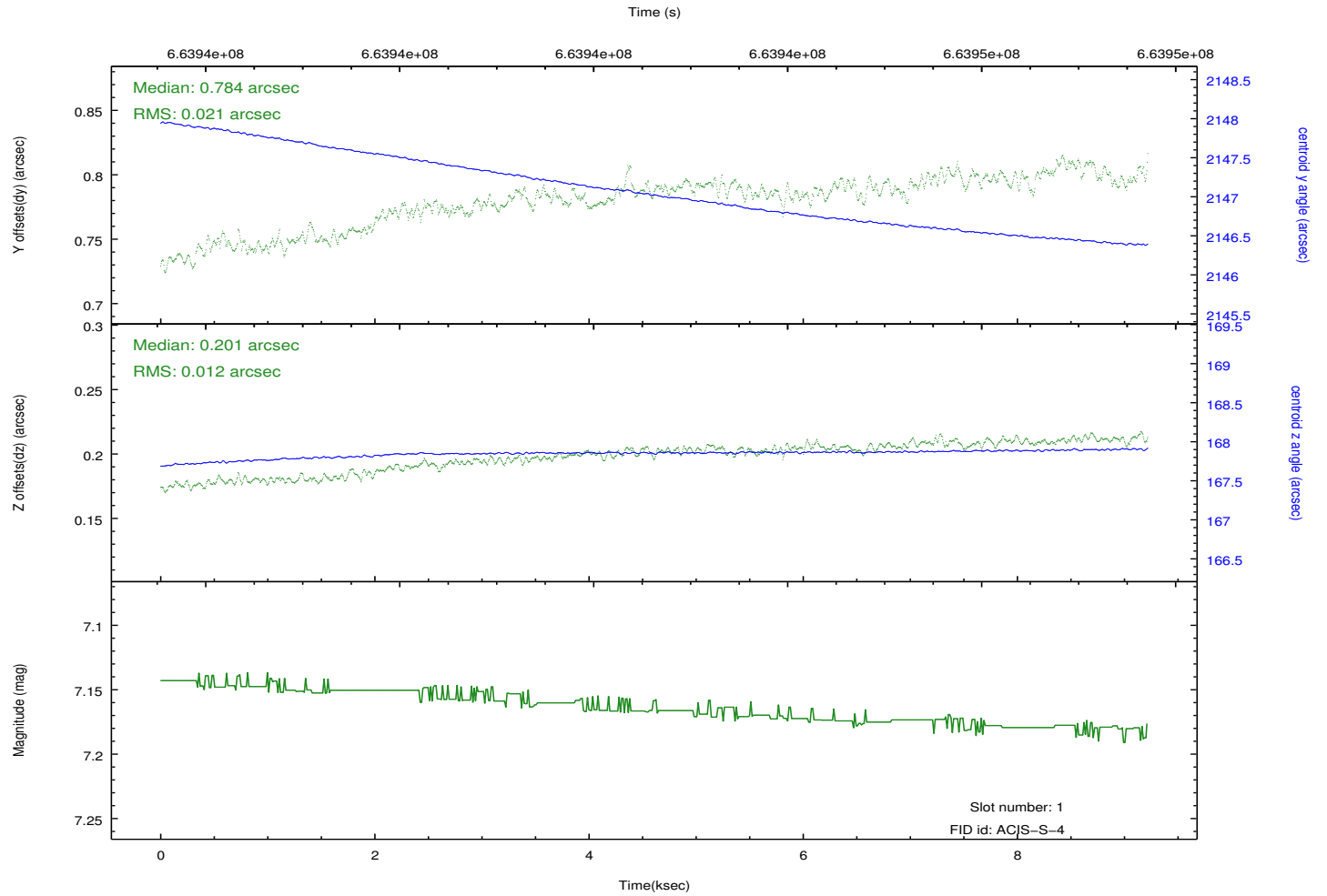
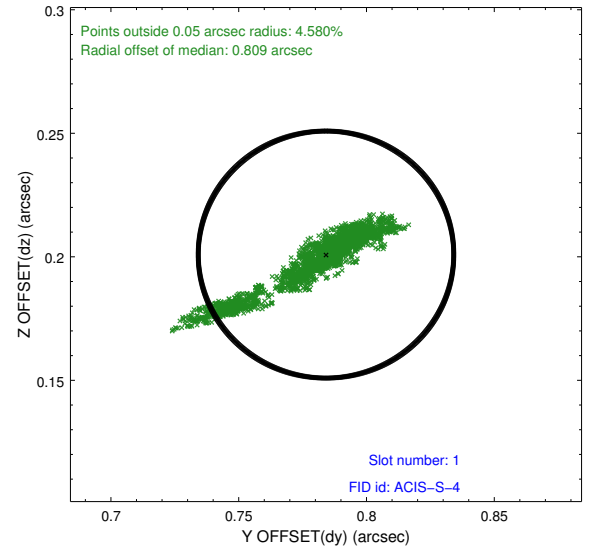
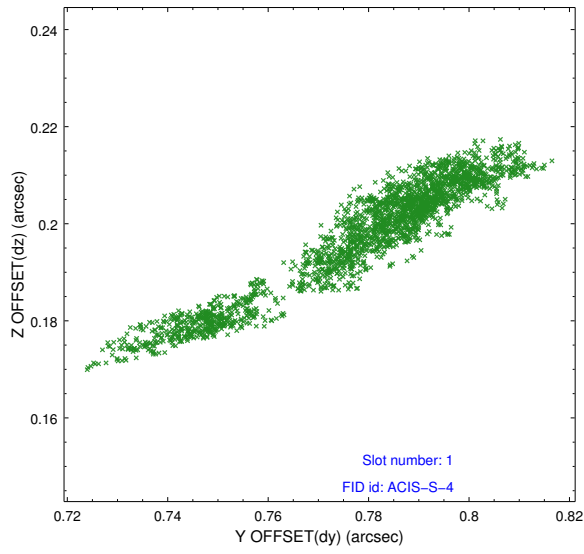


2.5 FID Slots

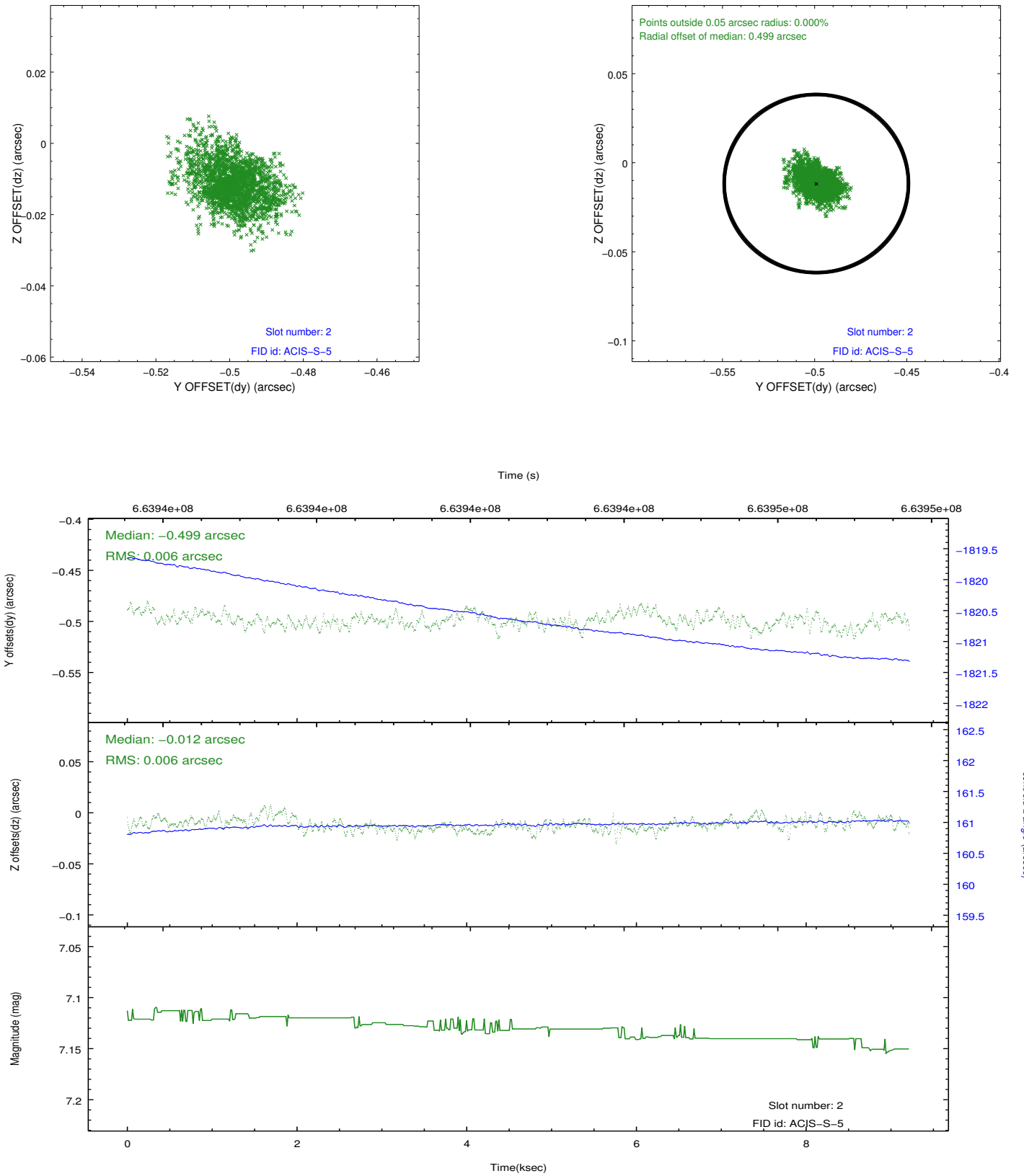
2.5.1 Slot 0



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)	2019.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.1440003634691

A.2 Comments