

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21443 - L2 Version 1
Chandra X-Ray Center

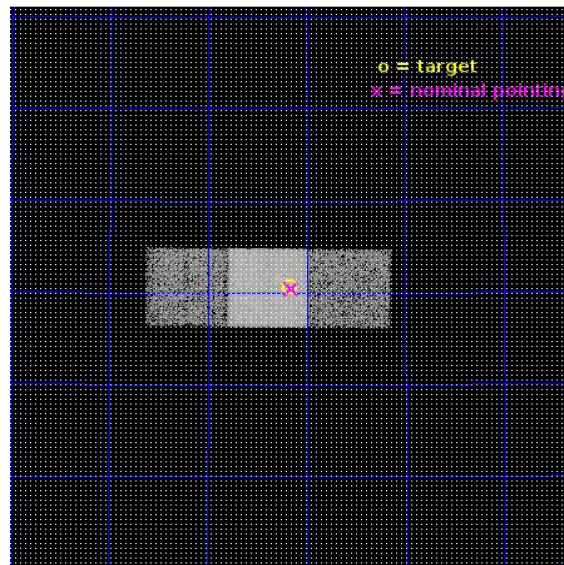
L2 Processing Date : Oct 24 2018

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1 Front

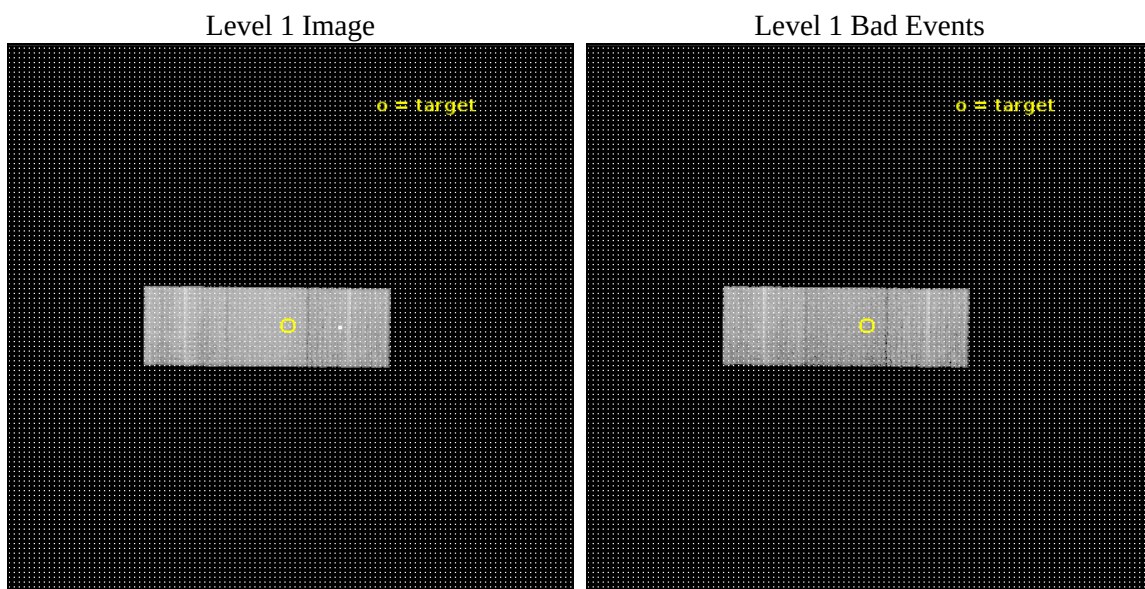
seq_num	703740	Sequence number
obs_id	21443	Observation id
title	Chandra Observations of Five New Quads and a Quint	Proposal title
observer	David Pooley	Principal investigator
object	PS J0147+4630	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.792083	Observer's specified target RA [deg]
dec_targ	46.511278	Observer's specified target Dec [deg]
ra_nom	26.788368572546	Nominal RA [deg]
dec_nom	46.507390569074	Nominal Dec [deg]
roll_nom	180.56946545729	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10657.800082088	Sum of GTIs [s]
livetime	10518.548077857	Livetime [s]
ontime6	10657.800082088	Sum of GTIs [s]
ontime7	10657.800082088	Sum of GTIs [s]
ontime8	10657.800082088	Sum of GTIs [s]
l2events	59281	Number of level 2 events



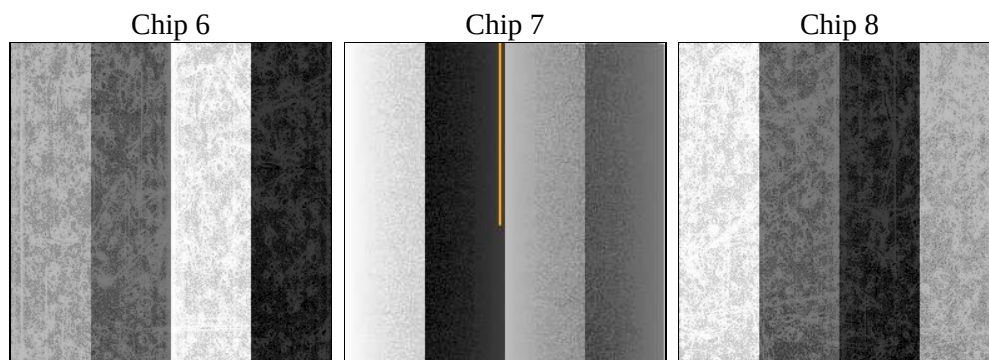
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10548.394000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	10657.800082088	Sum of GTIs [s]
caldbver	4.8.0.1	 	ontime6	10657.800082088	Sum of GTIs [s]
date	2018-10-25T01:48:42	Date and time of file creation	ontime7	10657.800082088	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10657.800082088	Sum of GTIs [s]
			l1events	290085	Number of level 1 events

2.1.4 Events

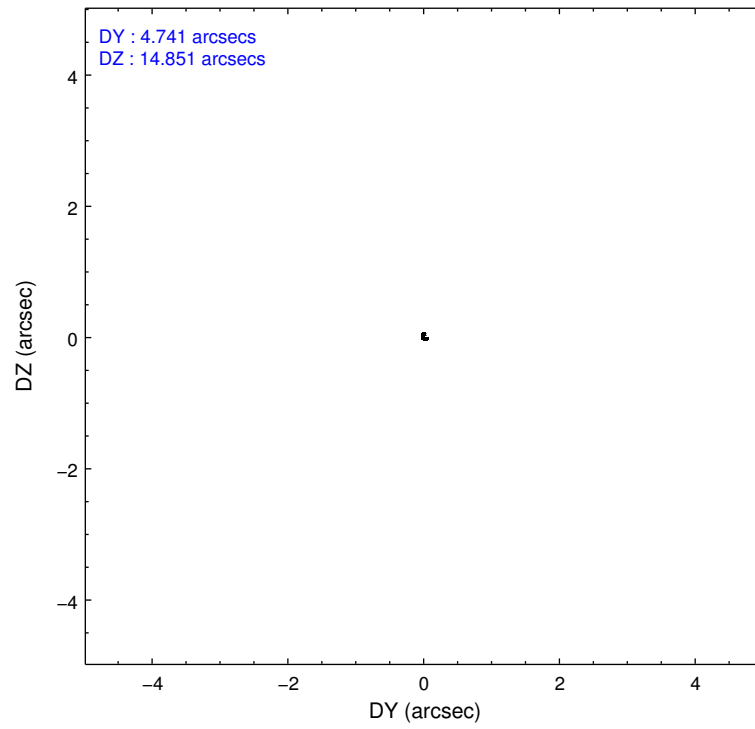
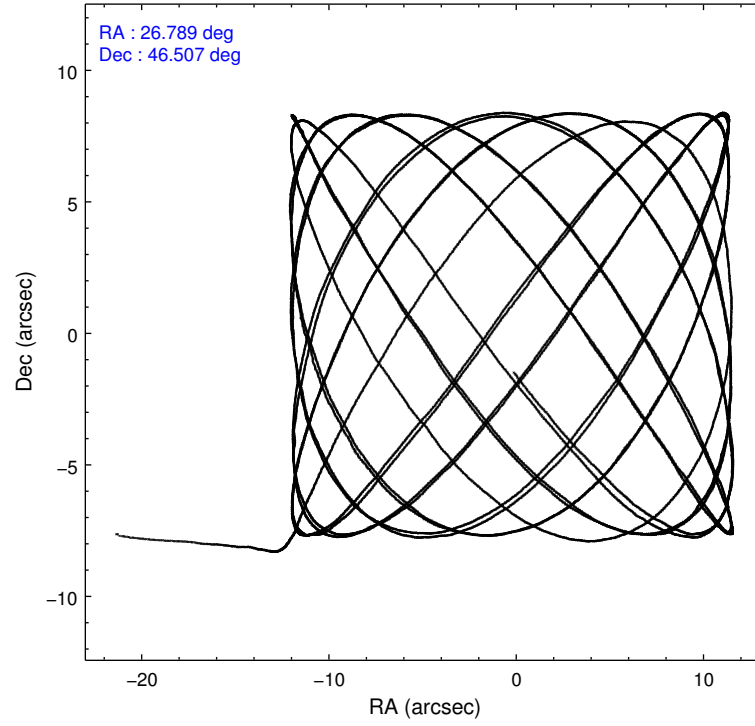
	ccd 6	ccd 7	ccd 8
level 1 events	85032	102268	102785
rejected events	72785	58234	78216
rejected %	85%	56%	76%

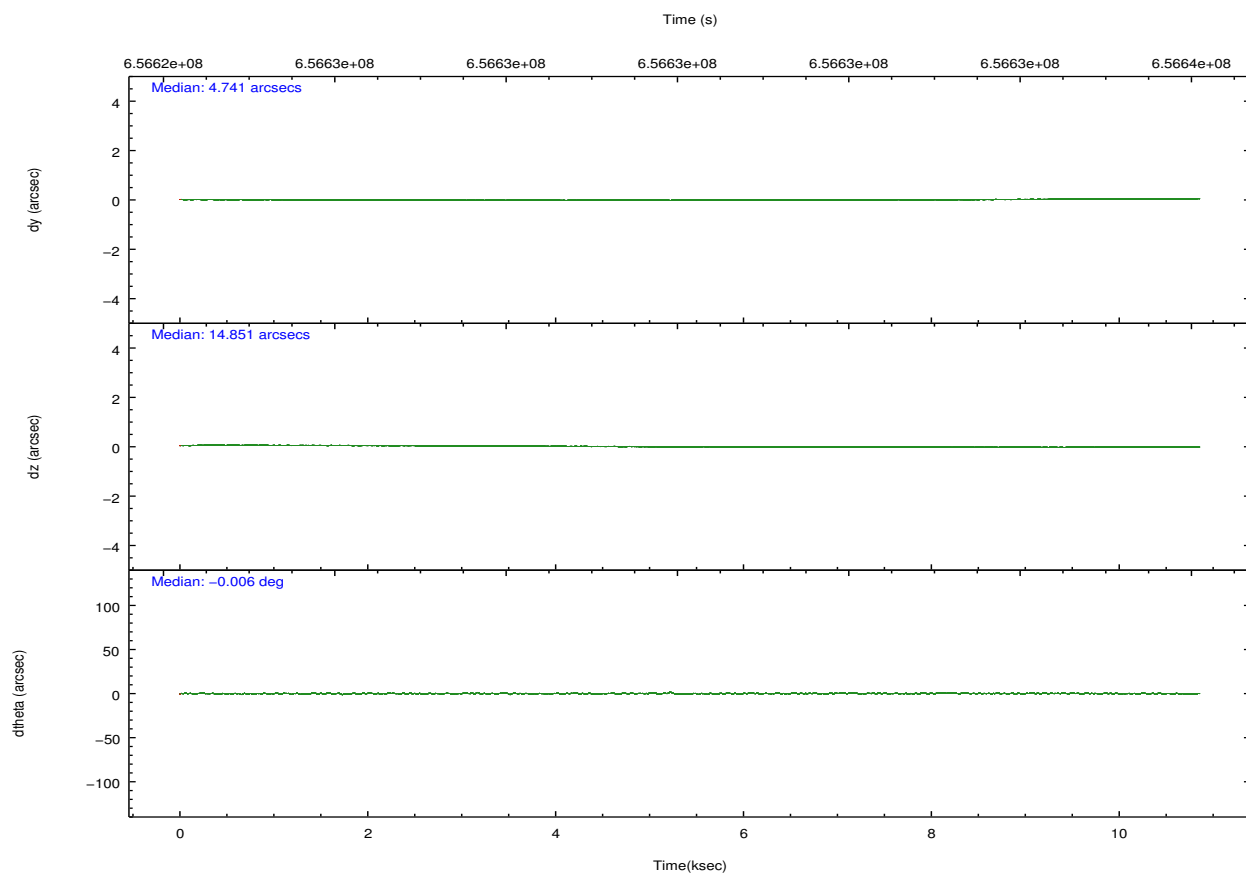
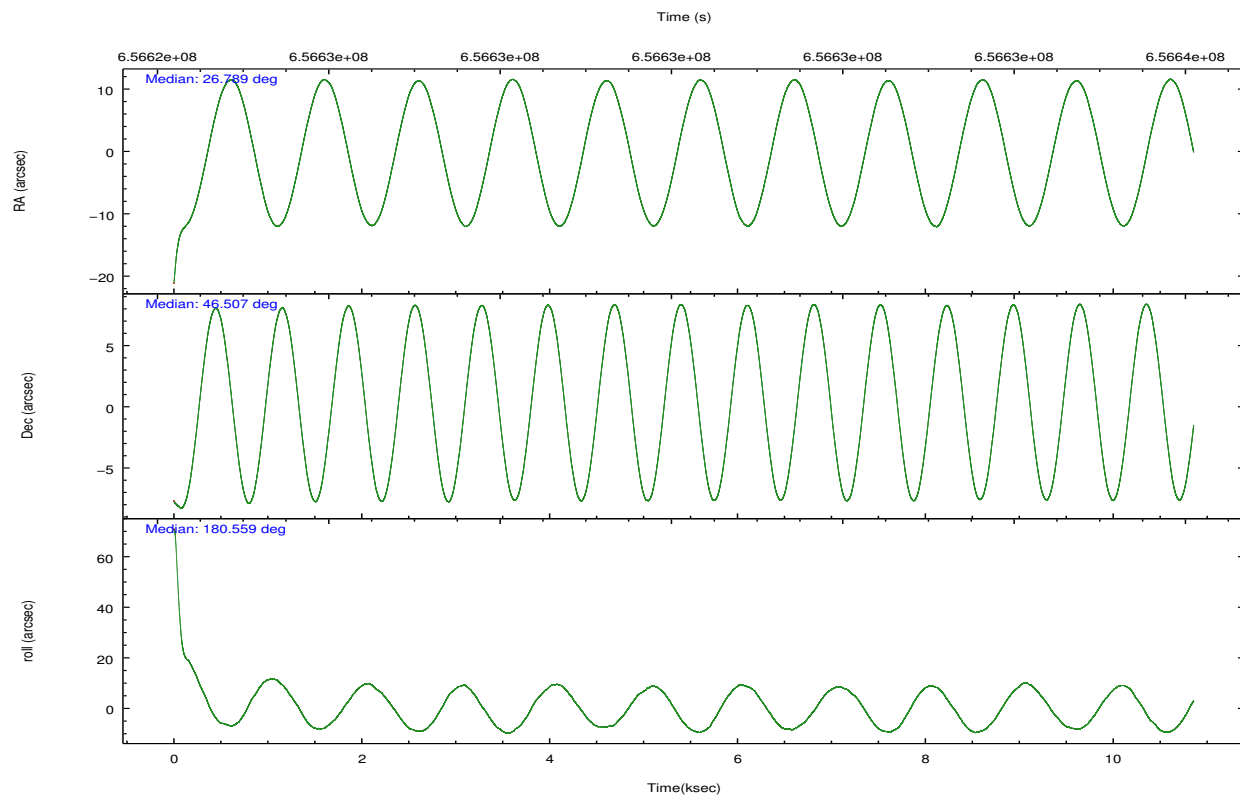
	ccd 6	ccd 7	ccd 8
grade 0 events	5656	3668	6651
	6%	3%	6%
grade 1 events	46	163	76
	0%	0%	0%
grade 2 events	2581	8992	6026
	3%	8%	5%
grade 3 events	743	3480	2437
	0%	3%	2%
grade 4 events	693	3293	2298
	0%	3%	2%
grade 5 events	3159	9781	5412
	3%	9%	5%
grade 6 events	2584	24625	7163
	3%	24%	6%
grade 7 events	69570	48266	72722
	81%	47%	70%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	26.822440	26.78836857254583	CCD I2 on	N	N
[deg] Pointing Dec	46.521711	46.50739056907361	CCD I3 on	N	N
[deg] Pointing Roll	180.388065	180.569465457295	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	656625013.184000	656624202.61339	CCD S5 on	O1	N
Observation start date	2018-10-22T19:49:04	2018-10-22T19:36:42	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	656635561.184000	656635899.91408	On-chip summing requested	N	N
Observation end date	2018-10-22T22:44:52	2018-10-22T22:51:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



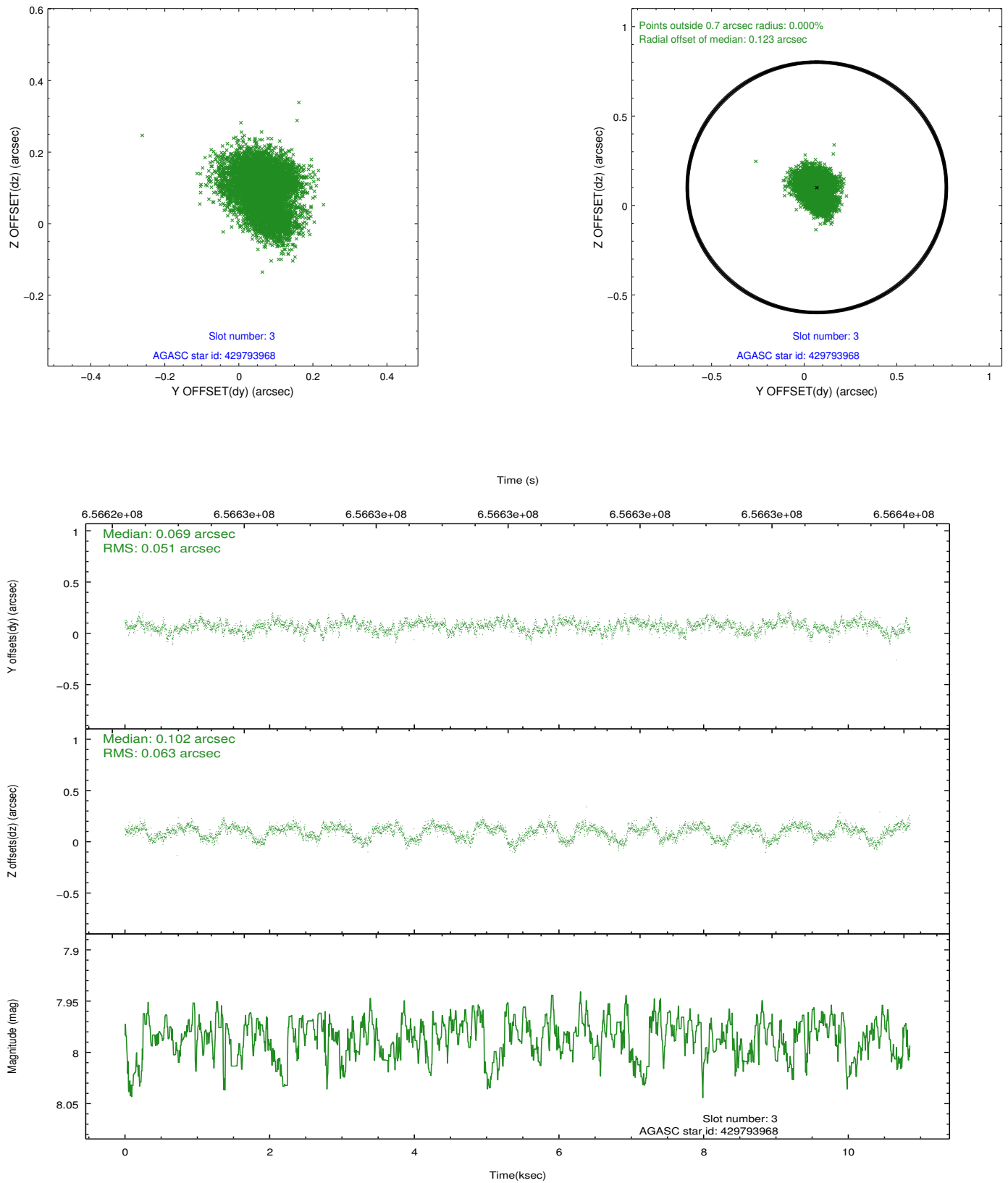


Slot Statistics

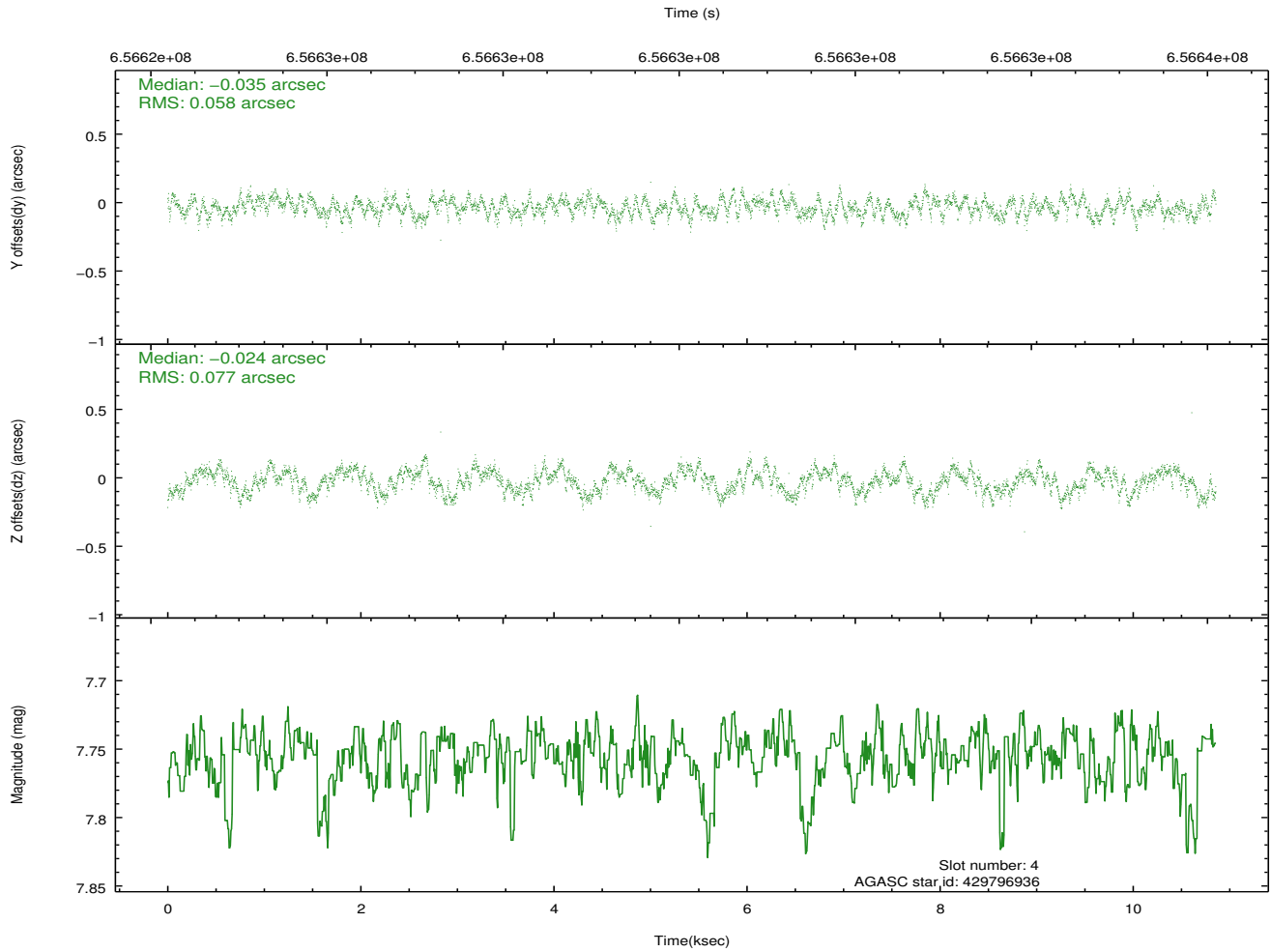
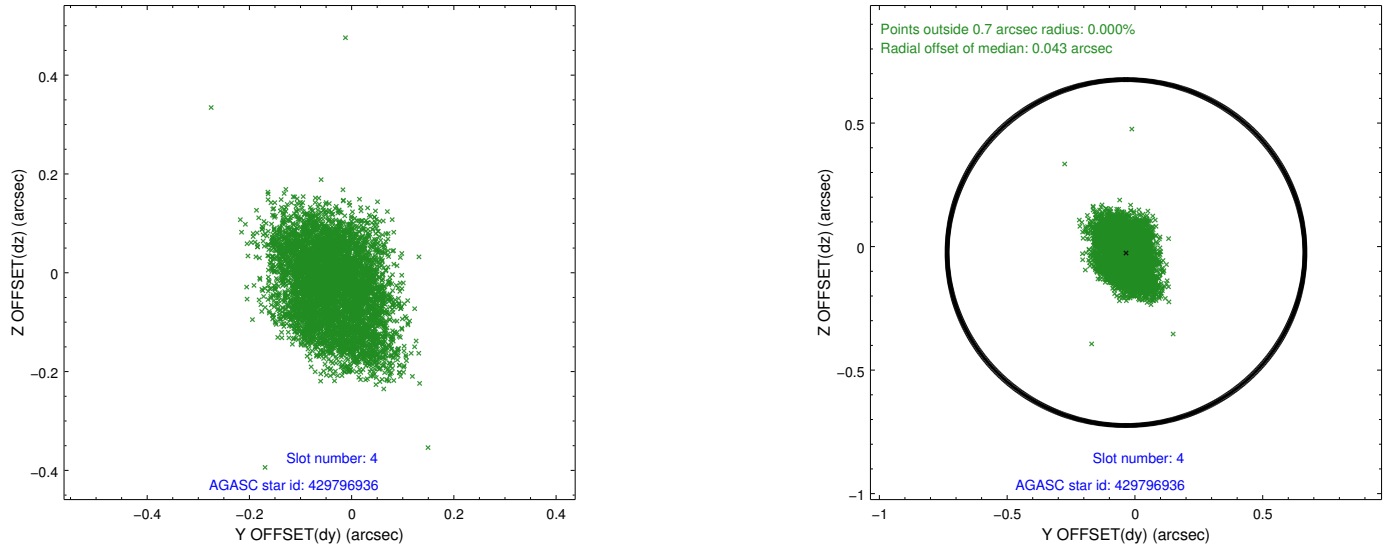
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.15	2649	1.000	-0.307	-0.153	0.007	0.012	0.000000	0.000000	-757.69 -1736
1	FID		ACIS-S-4	7.28	2649	1.000	0.650	0.189	0.006	0.010	0.000000	0.000000	2156.27 172
2	FID		ACIS-S-5	7.27	2649	1.000	-0.374	-0.027	0.007	0.011	0.000000	0.000000	-1810.04 165
3	GUIDE	used	429793968	7.98	5296	1.000	0.069	0.102	0.088	0.137	27.684831	46.391055	-2138.02 473
4	GUIDE	used	429796936	7.75	5296	1.000	-0.035	-0.024	0.105	0.164	26.439484	46.701145	941.14 -654
5	GUIDE	used	429797944	8.35	5290	1.000	-0.024	-0.342	0.095	0.155	27.097981	45.915869	-675.00 2183
6	GUIDE	used	429800296	8.29	5296	1.000	0.003	0.096	0.073	0.128	27.560756	46.313850	-1830.90 752
7	GUIDE	used	430324256	8.12	5293	1.000	-0.006	0.184	0.091	0.144	26.391525	47.056563	1044.05 -1934

2.4 Star Slots

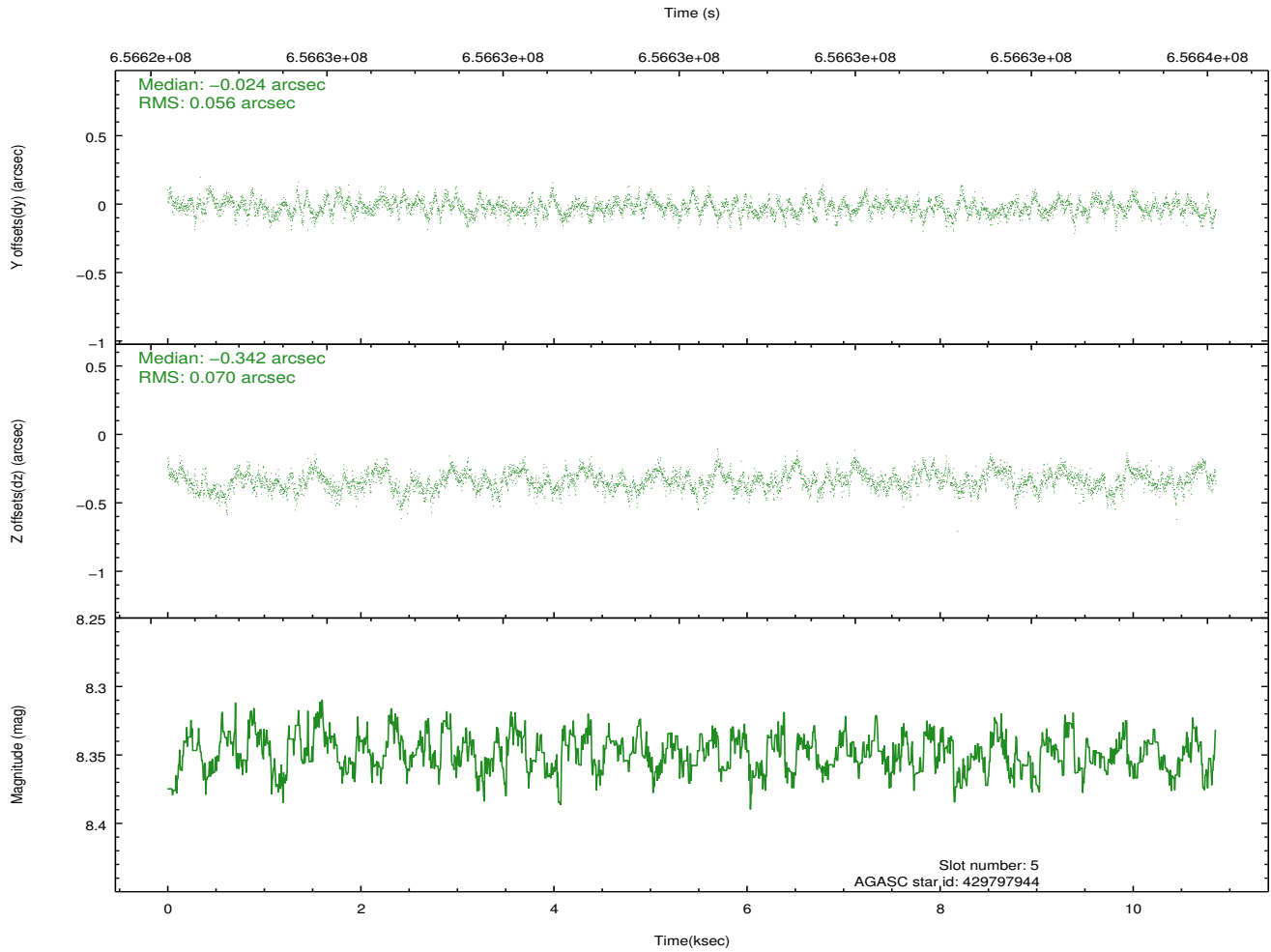
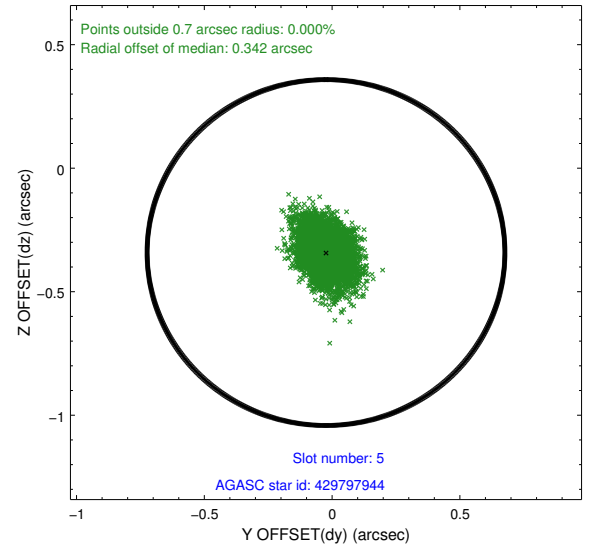
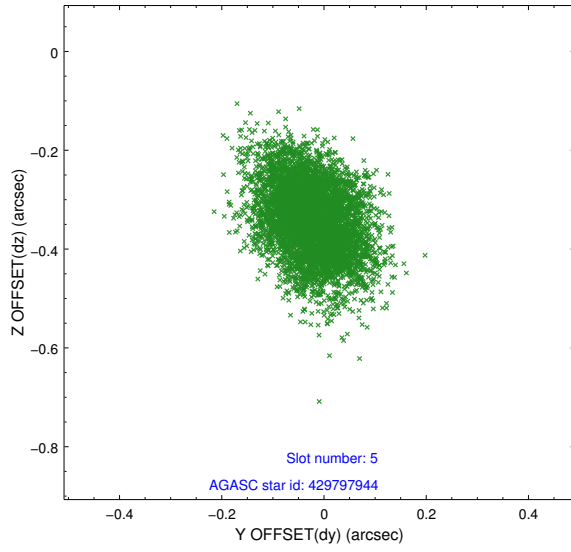
2.4.1 Slot 3



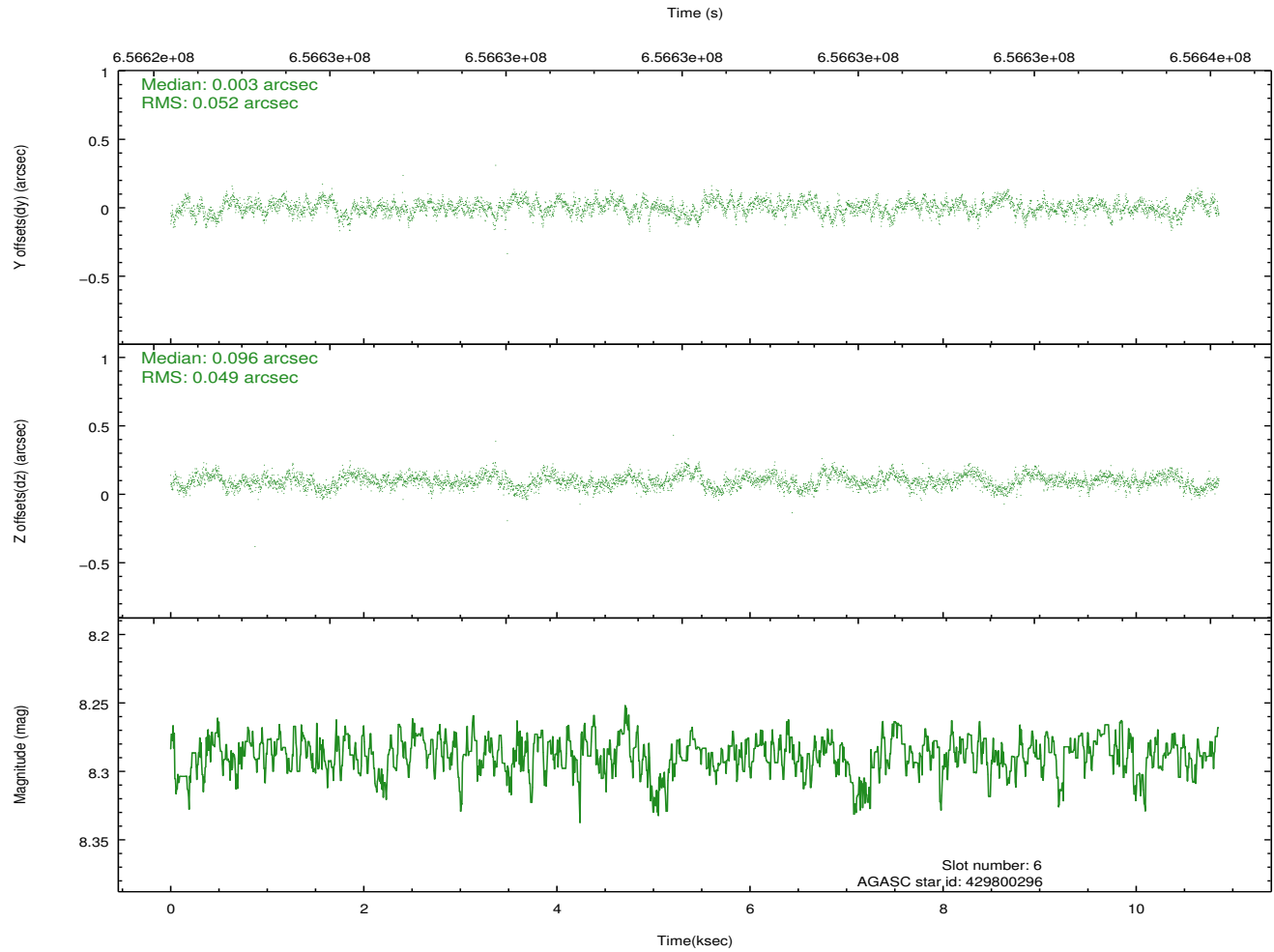
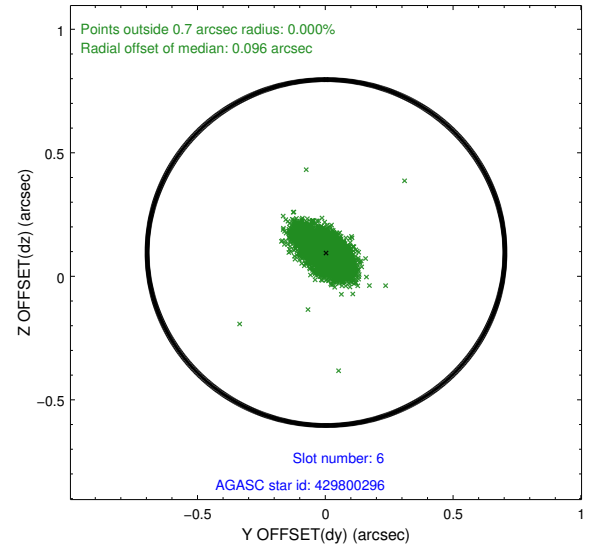
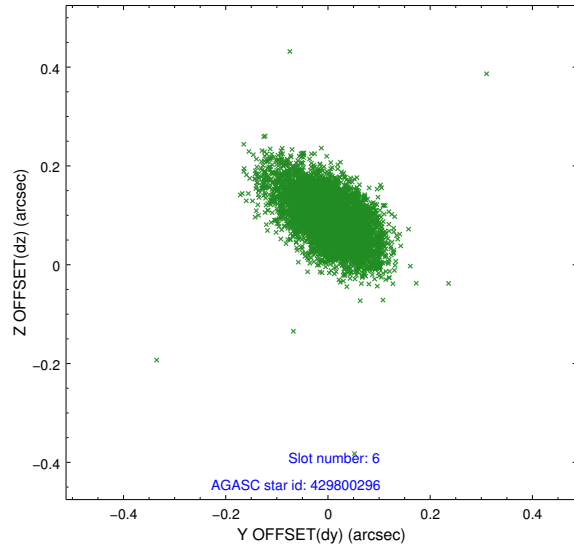
2.4.2 Slot 4



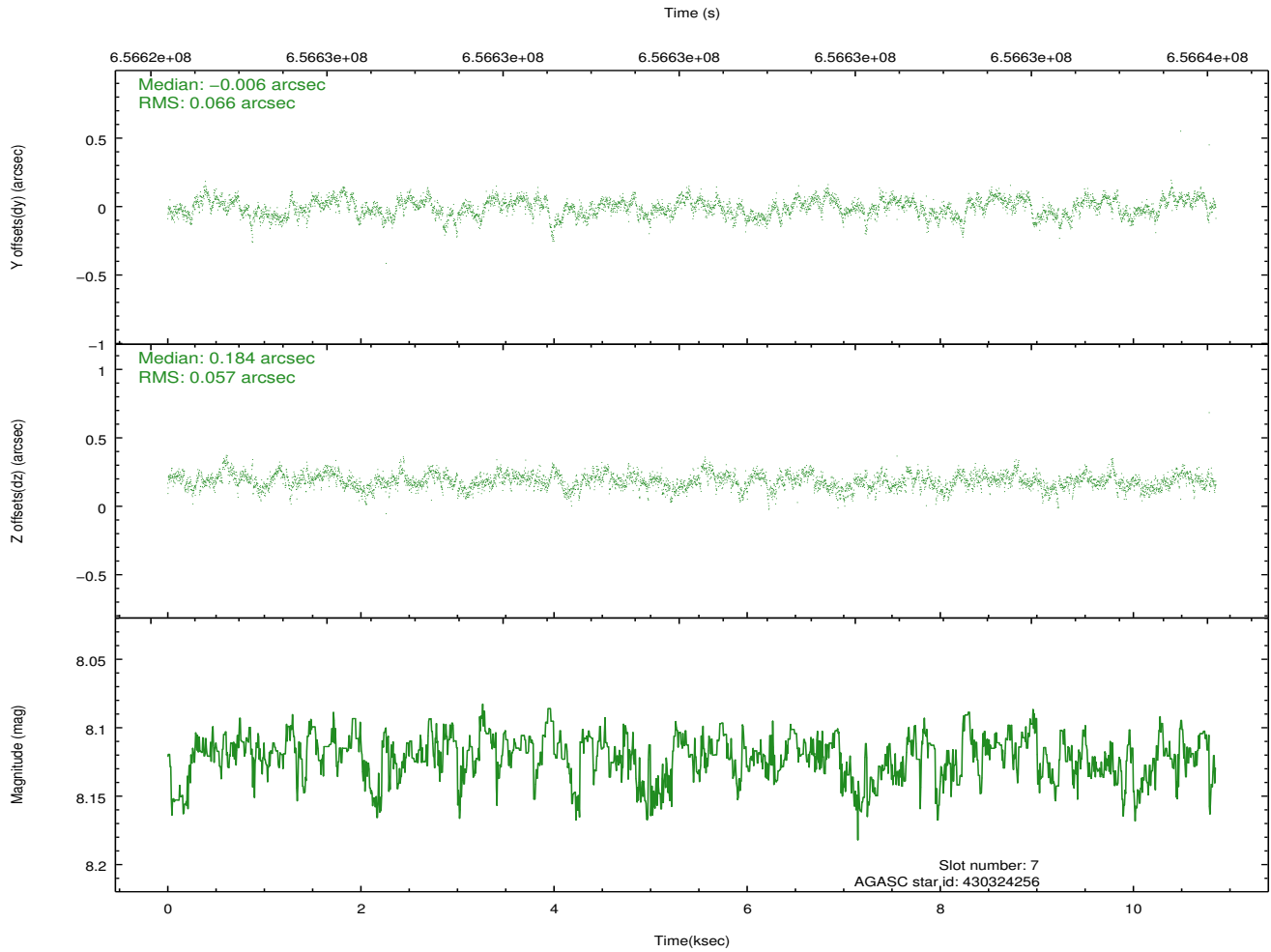
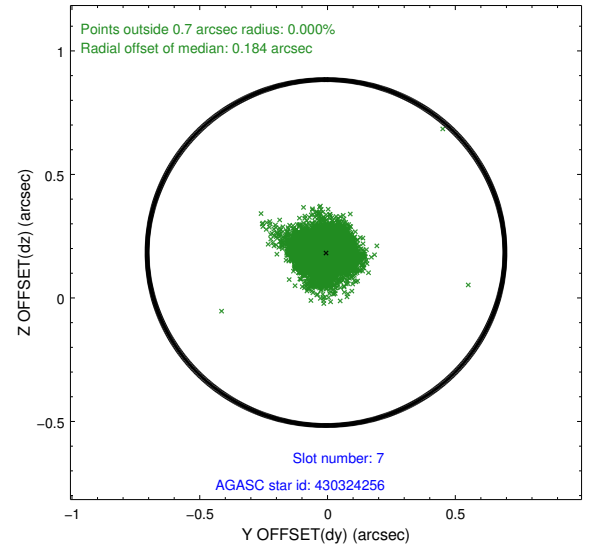
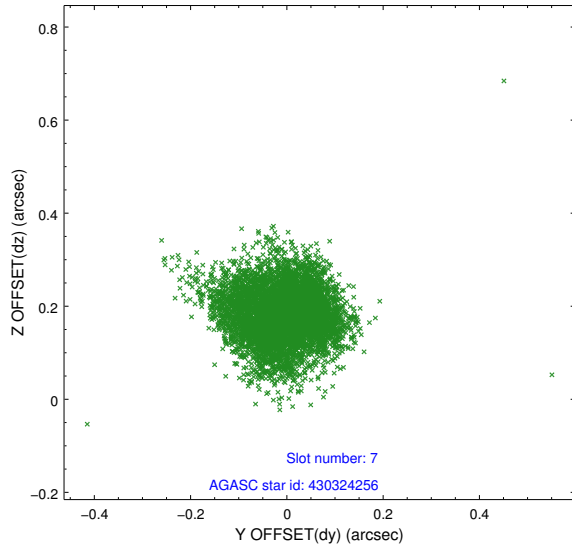
2.4.3 Slot 5



2.4.4 Slot 6

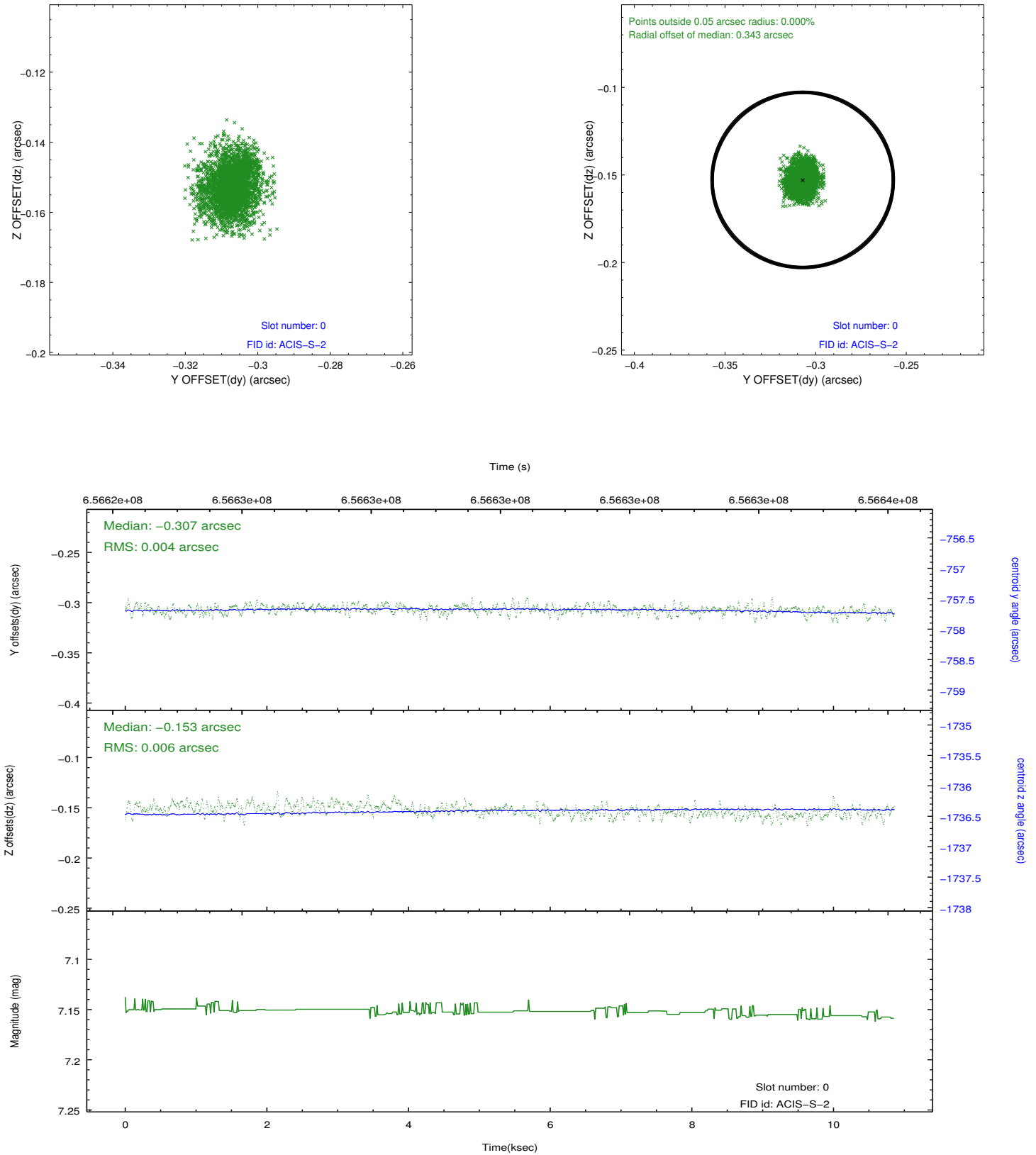


2.4.5 Slot 7

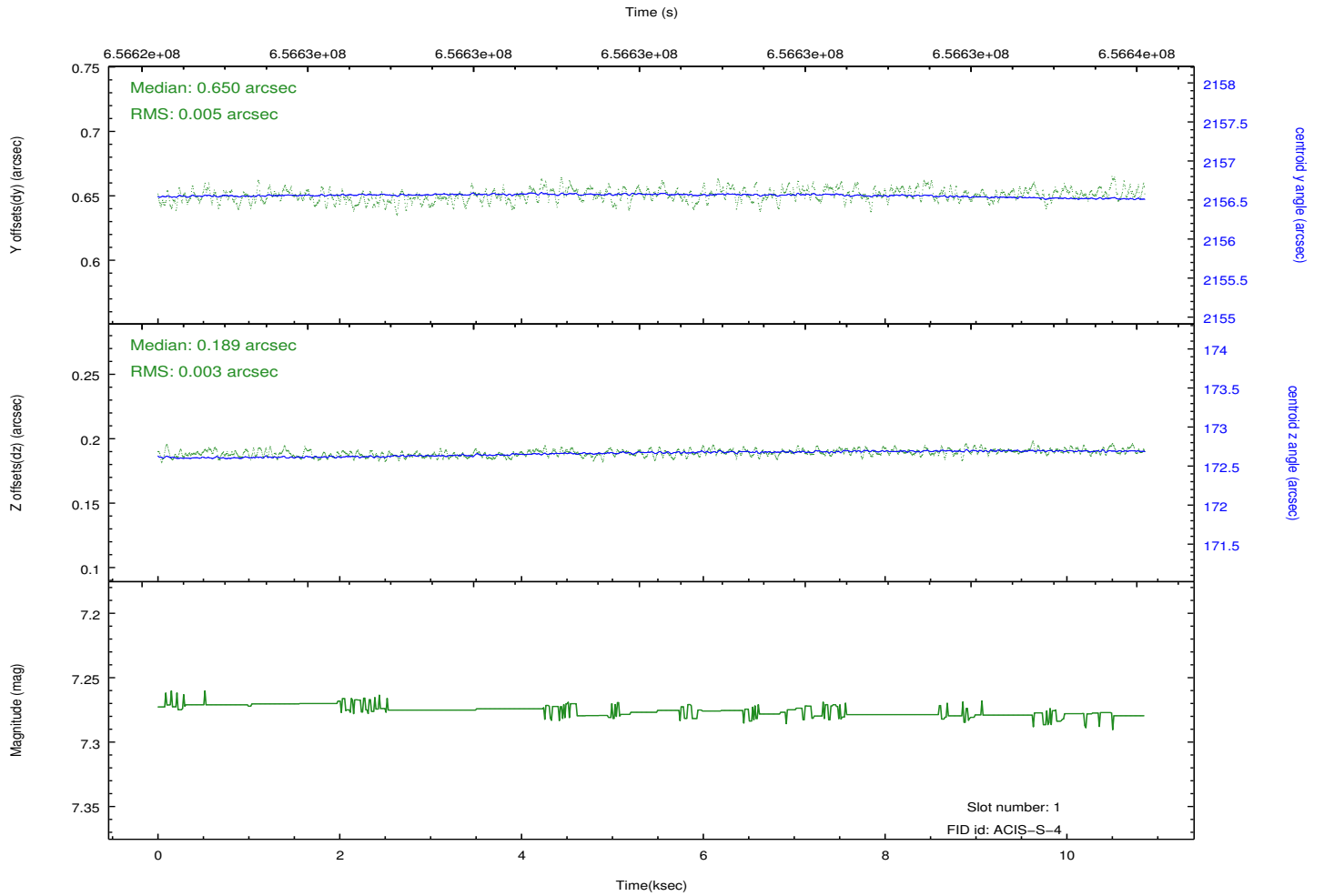
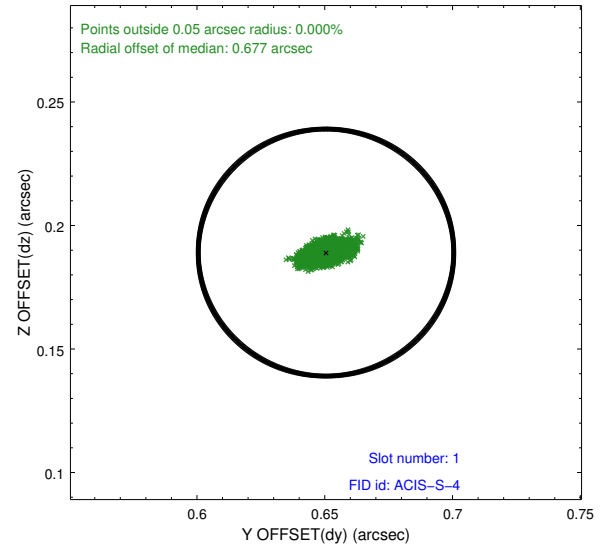
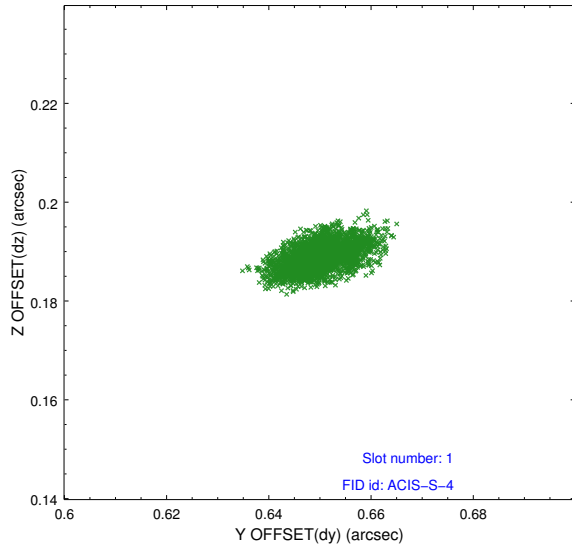


2.5 FID Slots

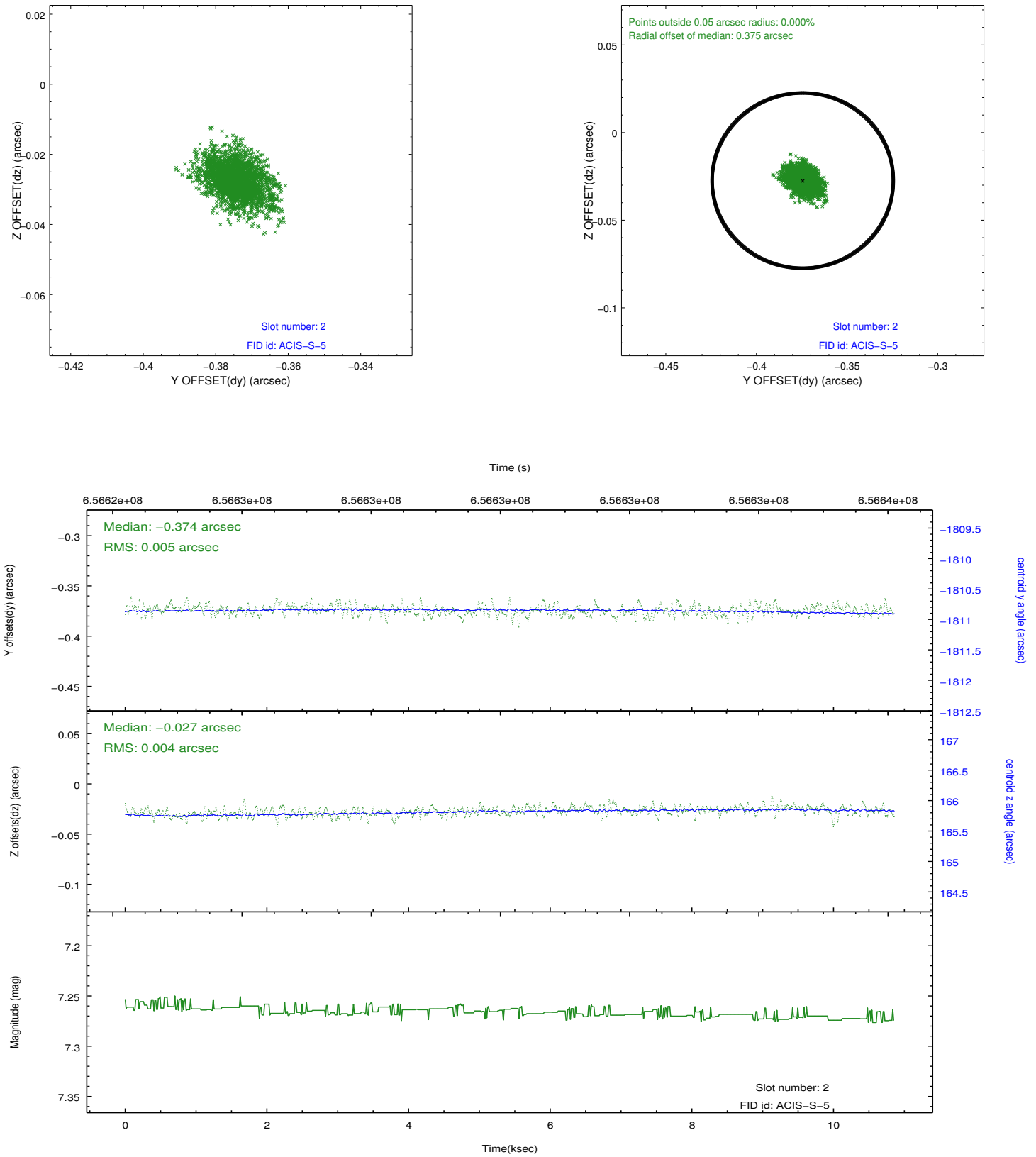
2.5.1 Slot 0



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)	2018.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.657800082088

A.2 Comments