

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21285 - L2 Version 1
Chandra X-Ray Center

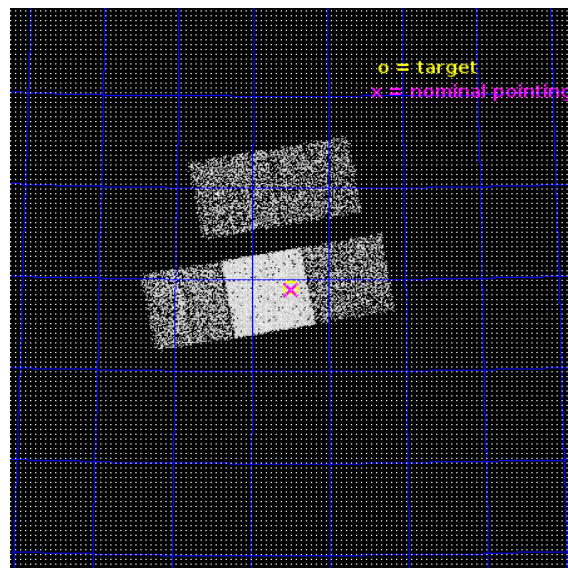
L2 Processing Date : Jan 14 2019

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

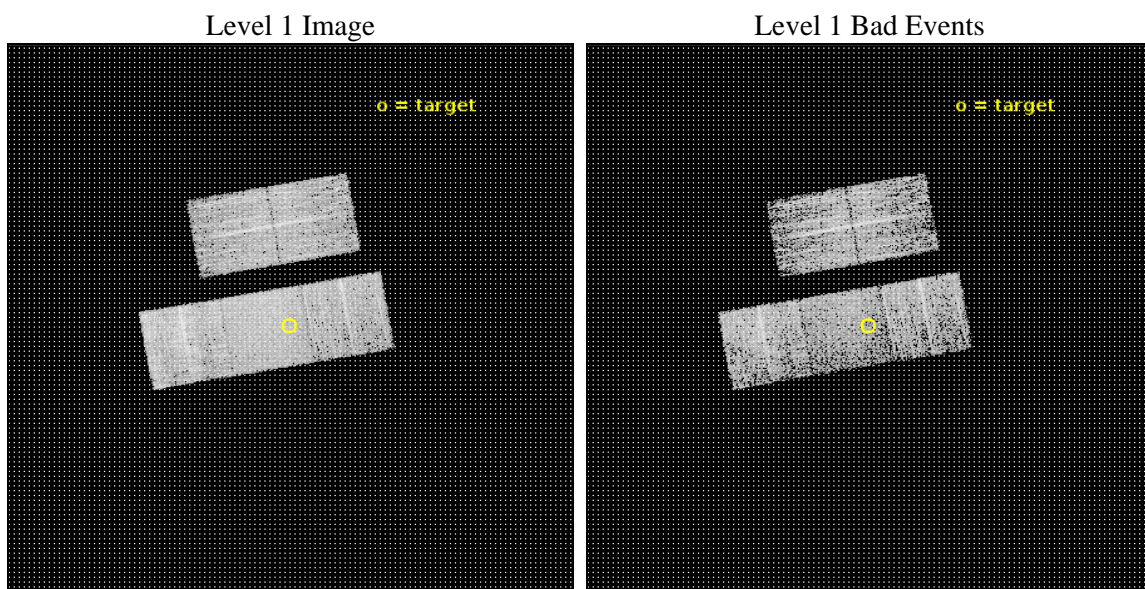
seq_num	503058	Sequence number
obs_id	21285	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J0814+7429	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.747917	Observer's specified target RA [deg]
dec_targ	74.484917	Observer's specified target Dec [deg]
ra_nom	123.74253813768	Nominal RA [deg]
dec_nom	74.481963118133	Nominal Dec [deg]
roll_nom	169.91345461634	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3551.2930541039	Sum of GTIs [s]
livetime	3504.8927959281	Livetime [s]
ontime2	3551.1288940907	Sum of GTIs [s]
ontime3	3551.2109740973	Sum of GTIs [s]
ontime6	3551.2520141602	Sum of GTIs [s]
ontime7	3551.2930541039	Sum of GTIs [s]
ontime8	3551.1699341536	Sum of GTIs [s]
l2events	25569	Number of level 2 events



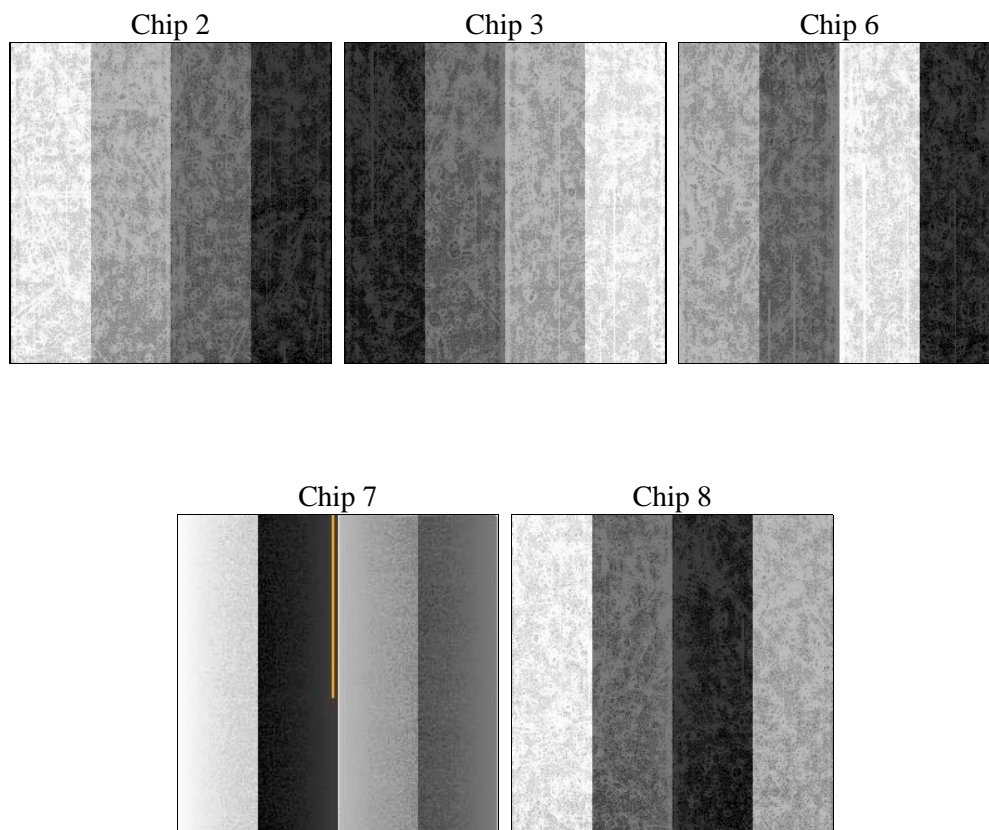
2 OBI

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	10.7.1	Processing system revision	ontime	3551.2930541039	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	3551.1288940907	Sum of GTIs [s]
date	2019-01-14T12:37:59	Date and time of file creation	ontime3	3551.2109740973	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3551.2520141602	Sum of GTIs [s]
			ontime7	3551.2930541039	Sum of GTIs [s]
			ontime8	3551.1699341536	Sum of GTIs [s]
			l1events	151744	Number of level 1 events

2.1.4 Events

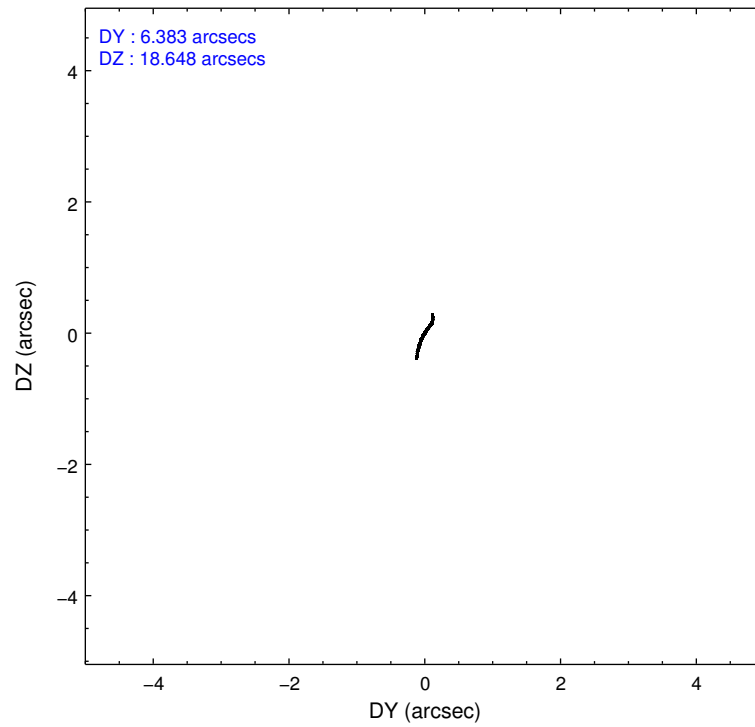
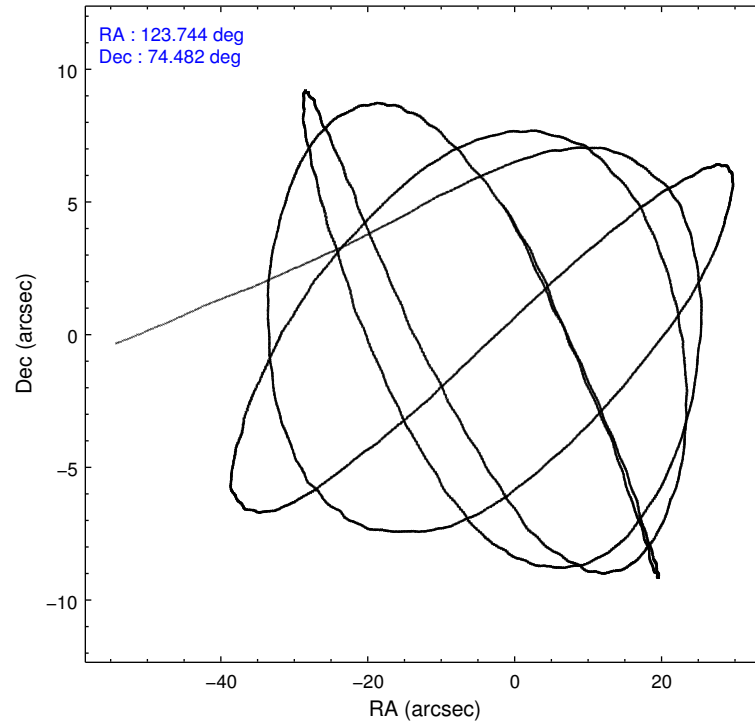
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	26737	26896	26932	34144	37035
rejected events	23709	24005	23907	19208	26347
rejected %	88%	89%	88%	56%	71%

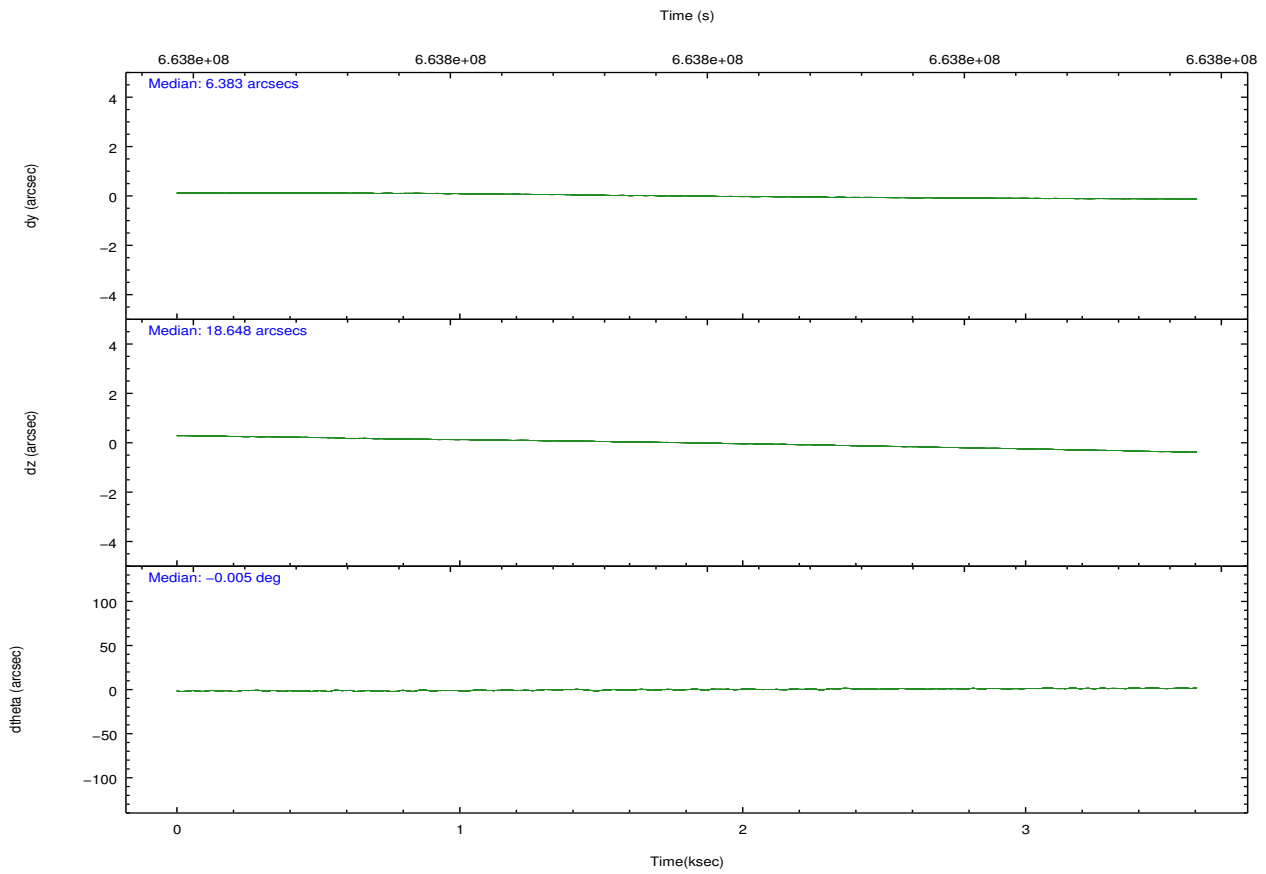
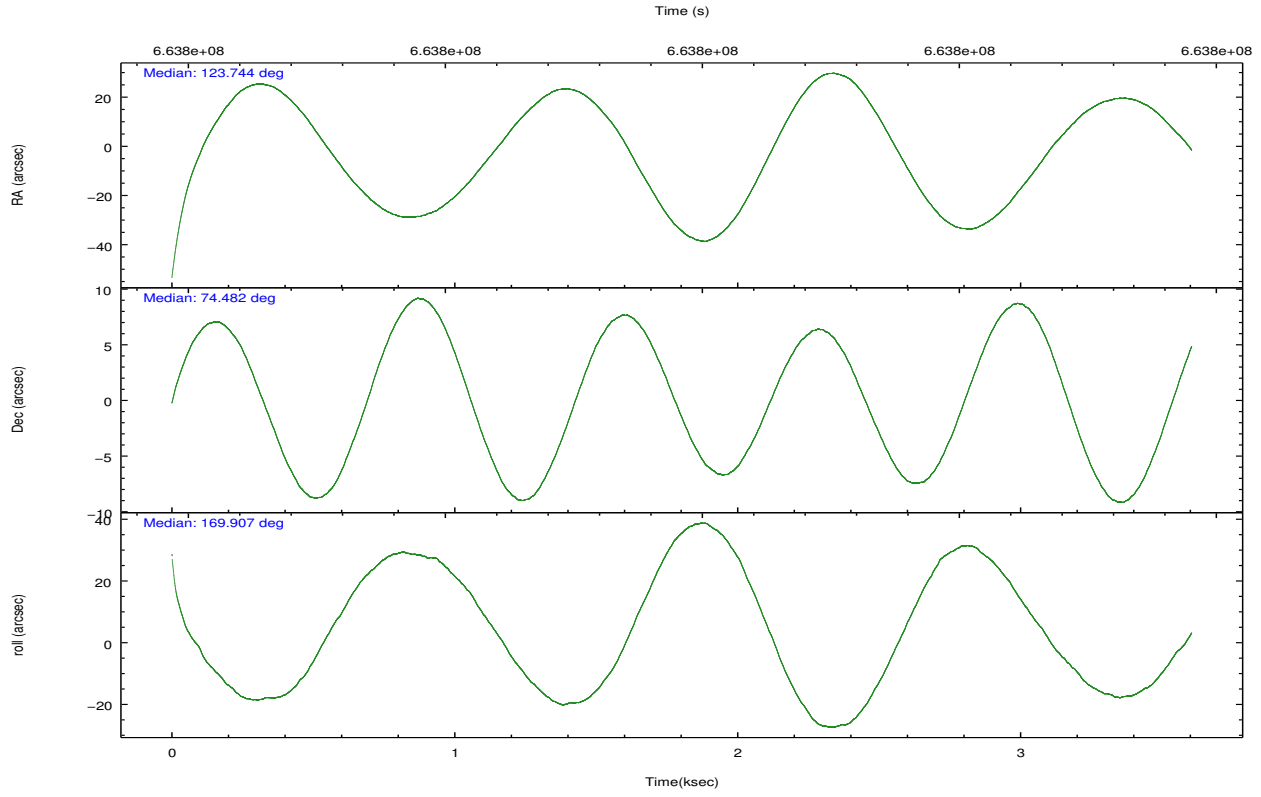
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1179	1021	1007	1276	2952
	4%	3%	3%	3%	7%
grade 1 events	15	16	18	43	32
	0%	0%	0%	0%	0%
grade 2 events	737	686	689	3133	2605
	2%	2%	2%	9%	7%
grade 3 events	270	296	283	1203	1067
	1%	1%	1%	3%	2%
grade 4 events	296	291	319	1149	1050
	1%	1%	1%	3%	2%
grade 5 events	988	1245	1310	3488	1833
	3%	4%	4%	10%	4%
grade 6 events	553	601	728	8198	3023
	2%	2%	2%	24%	8%
grade 7 events	22699	22740	22578	15654	24473
	84%	84%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	123.838028	123.7425381376797	CCD I2 on	O1	Y
[deg] Pointing Dec	74.491675	74.48196311813308	CCD I3 on	O2	Y
[deg] Pointing Roll	169.664876	169.9134546163414	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	Y	Y
[s] Observation start time (MET)	663800237.184000	663798989.84097	CCD S5 on	N	N
Observation start date	2019-01-13T20:56:08	2019-01-13T20:36:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	663803737.184000	663804271.15379	On-chip summing requested	N	N
Observation end date	2019-01-13T21:54:28	2019-01-13T22:04:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



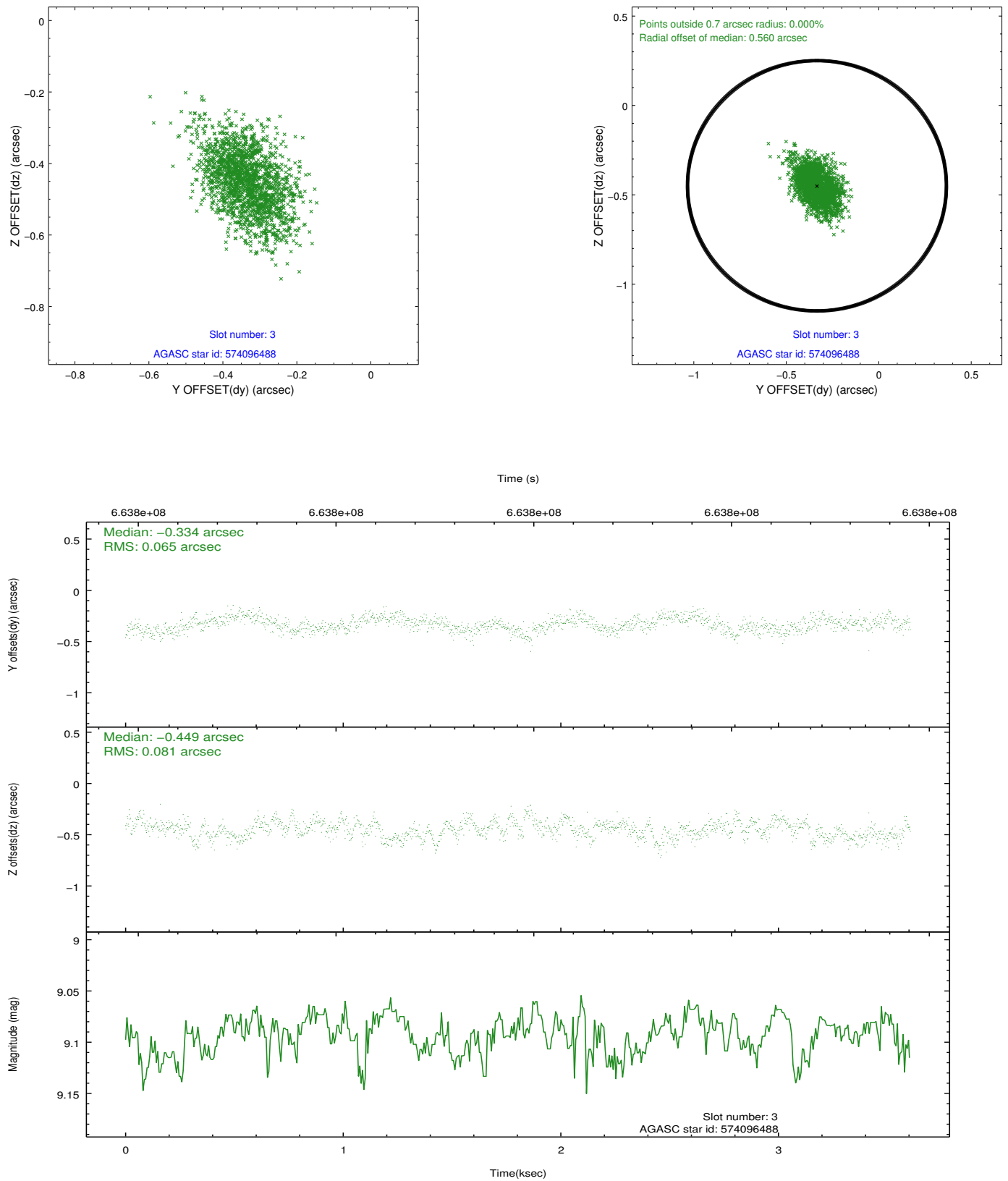


Slot Statistics

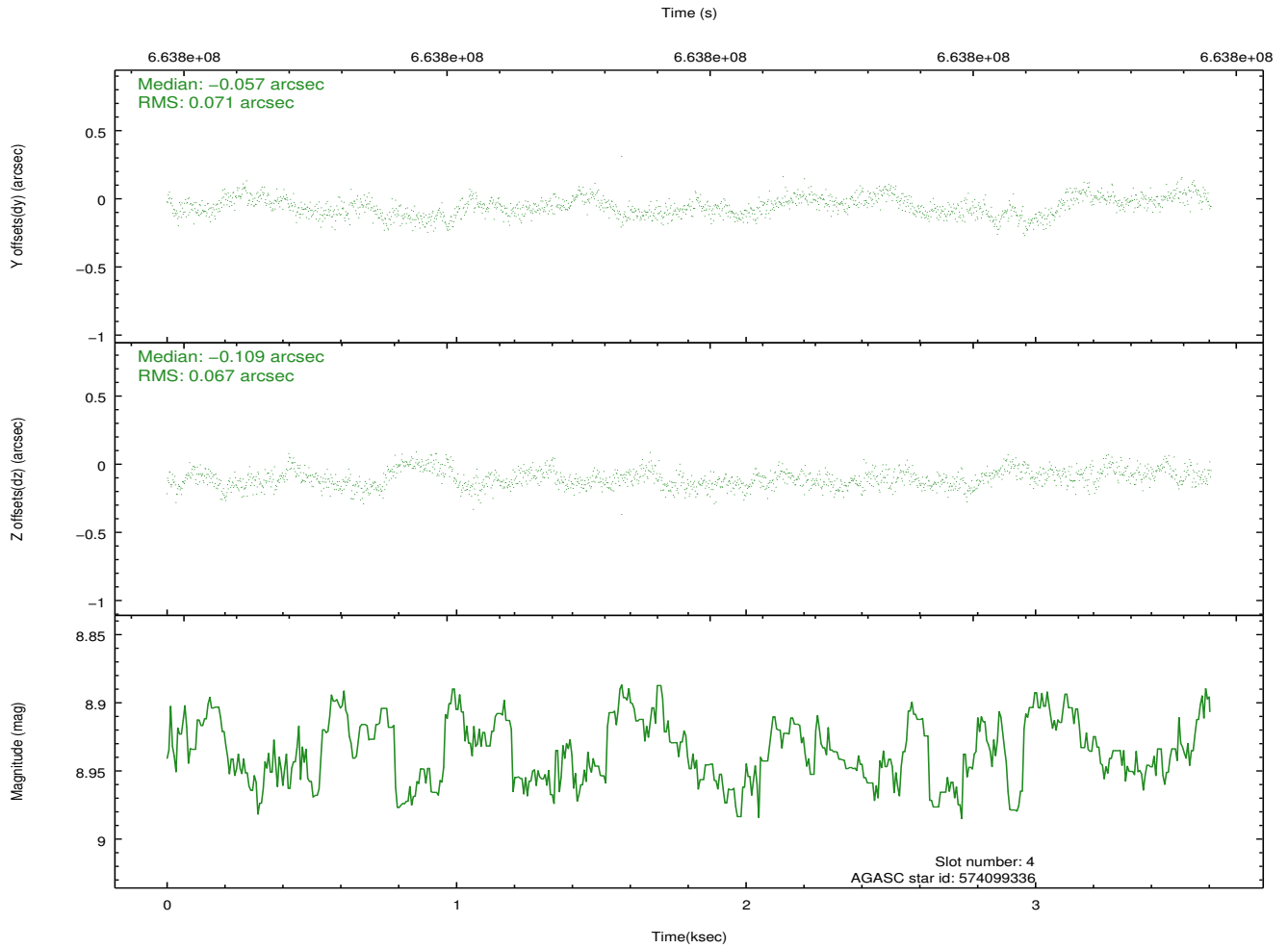
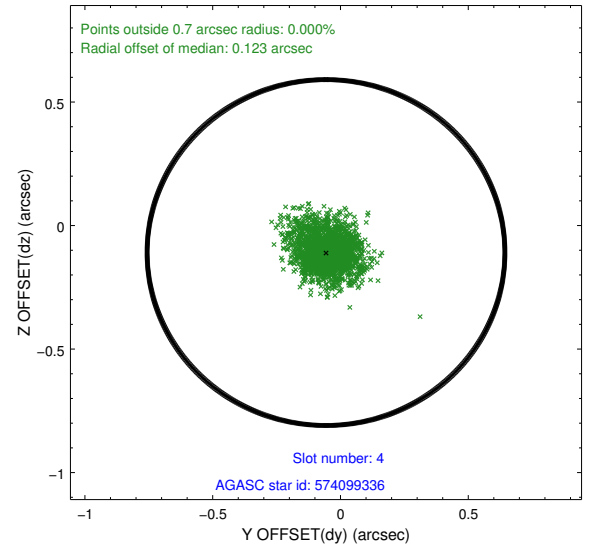
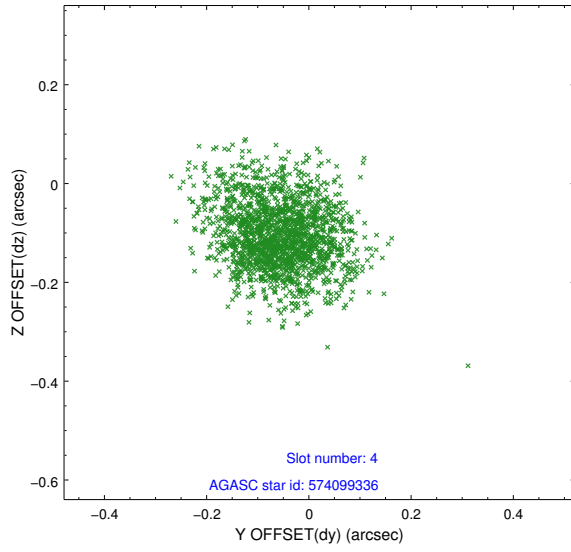
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	879	1.000	-0.269	-0.144	0.008	0.014	0.000000	0.000000	-759.37	-1740
1	FID		ACIS-S-4	7.13	880	1.000	0.541	0.168	0.006	0.011	0.000000	0.000000	2153.90	166
2	FID		ACIS-S-5	7.13	880	1.000	-0.304	-0.015	0.008	0.013	0.000000	0.000000	-1810.02	162
3	GUIDE	used	574096488	9.09	1757	1.000	-0.334	-0.449	0.109	0.182	122.568493	74.050386	953.71	1775
4	GUIDE	used	574099336	8.94	1759	1.000	-0.057	-0.109	0.103	0.168	123.040243	74.568187	803.60	-137
5	GUIDE	used	574101624	8.36	1760	1.000	0.204	0.272	0.087	0.148	126.139969	74.438010	-2211.84	-250
6	GUIDE	used	574101744	8.61	1759	1.000	0.058	0.008	0.090	0.157	122.649528	74.802454	1305.95	-910
7	GUIDE	used	595075752	8.37	1756	1.000	0.126	0.274	0.083	0.139	123.809169	75.164948	463.09	-2379

2.4 Star Slots

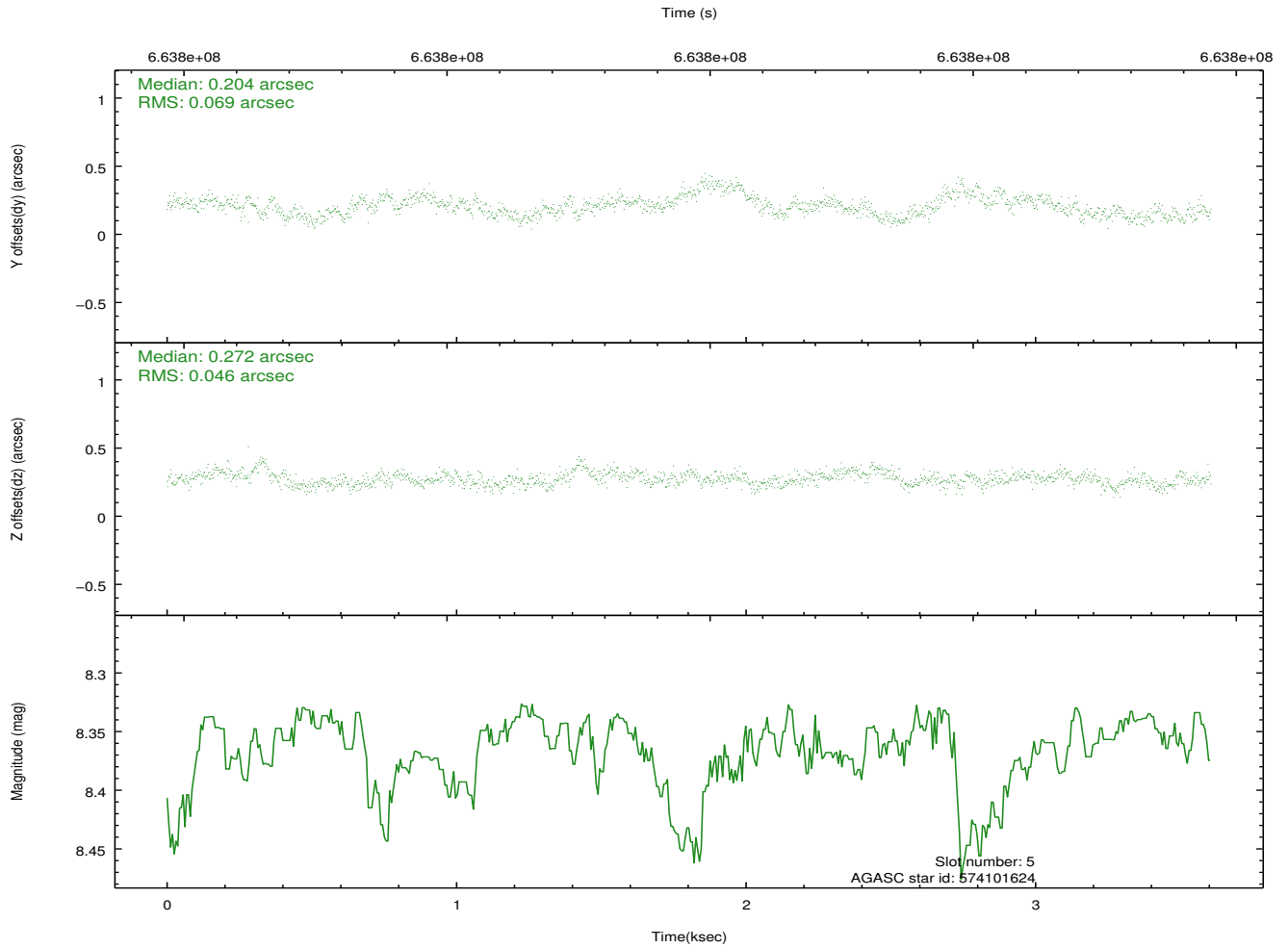
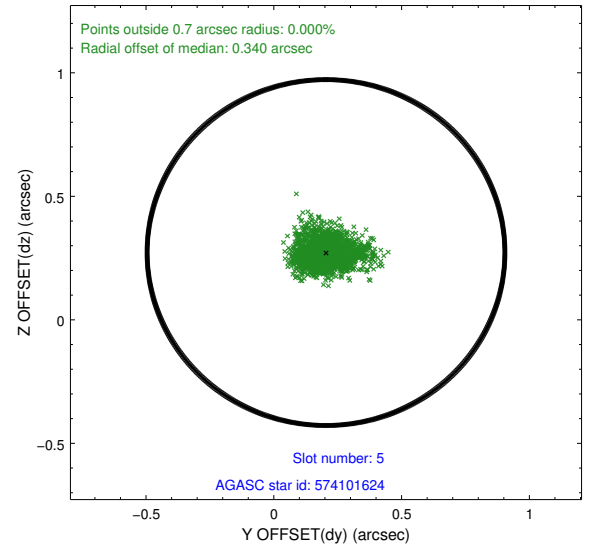
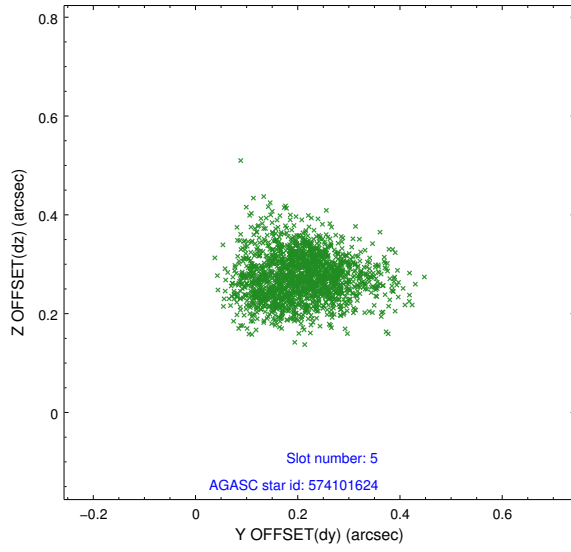
2.4.1 Slot 3



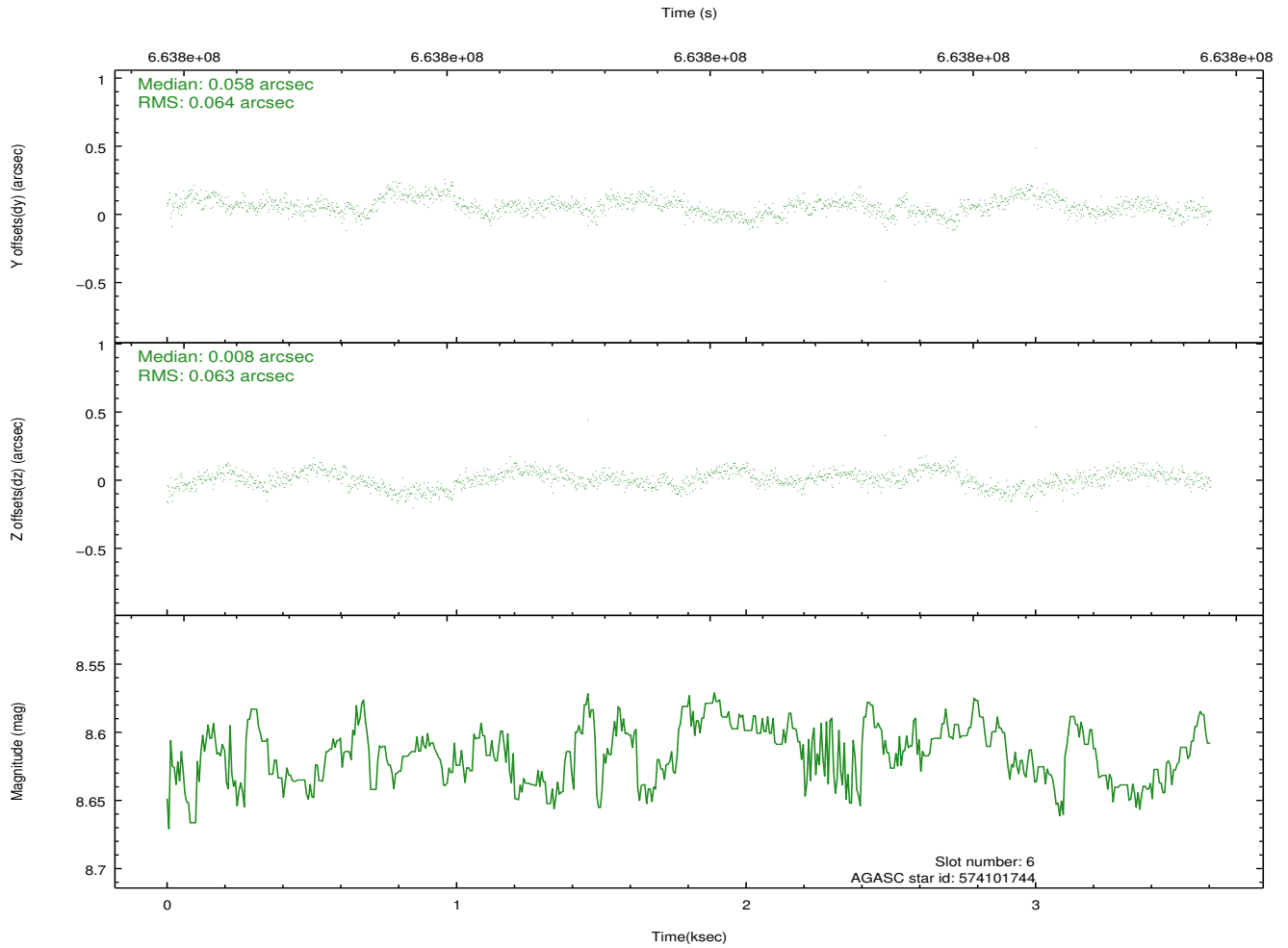
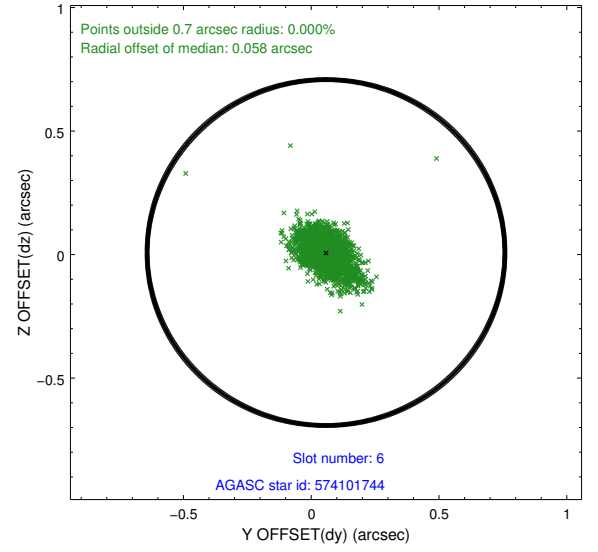
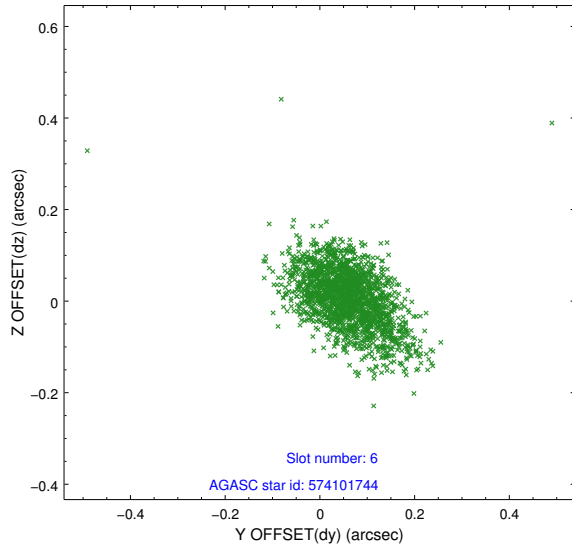
2.4.2 Slot 4



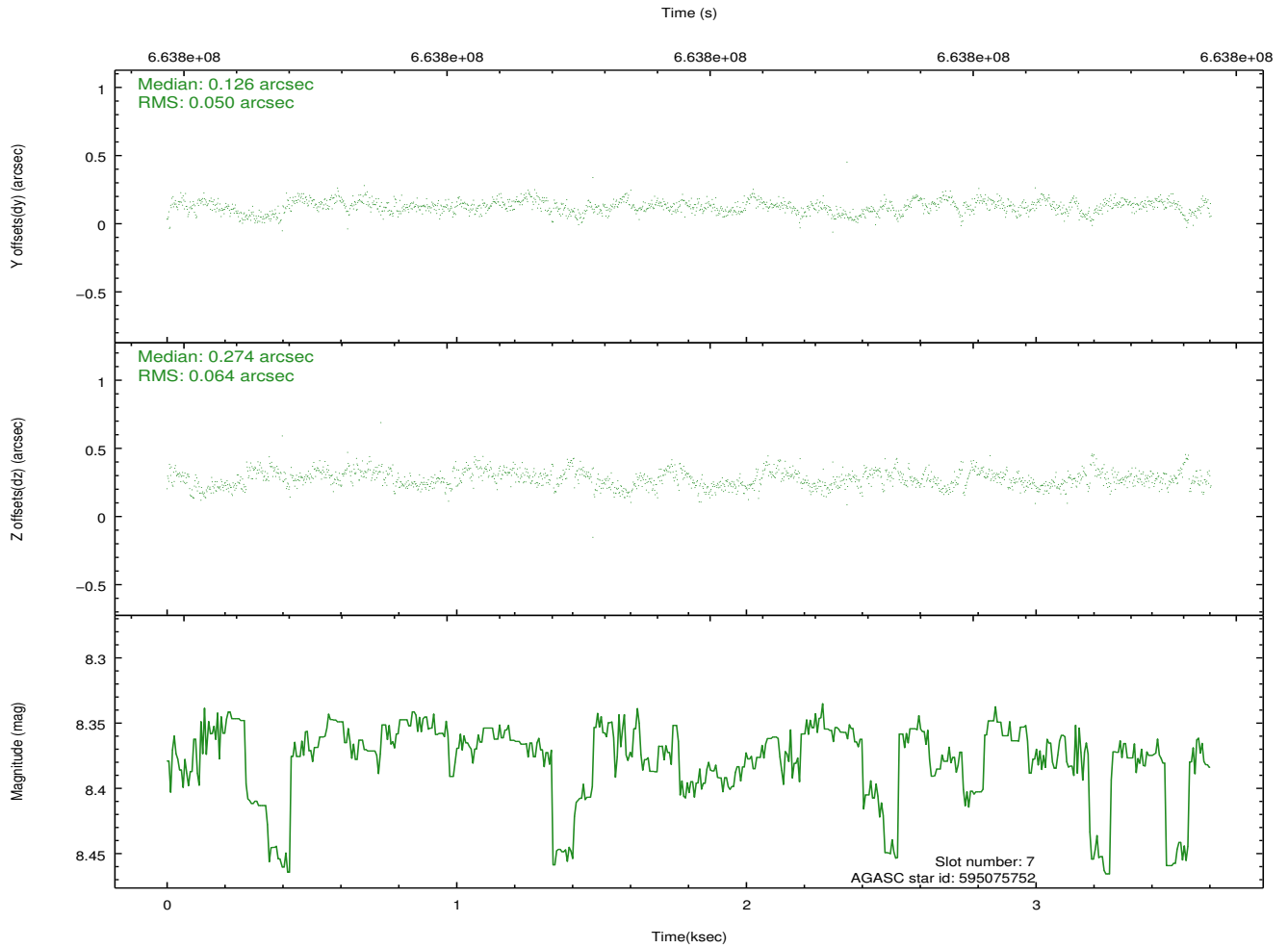
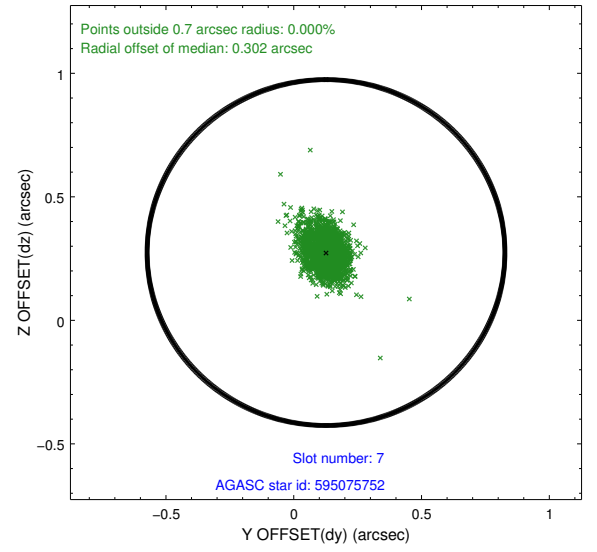
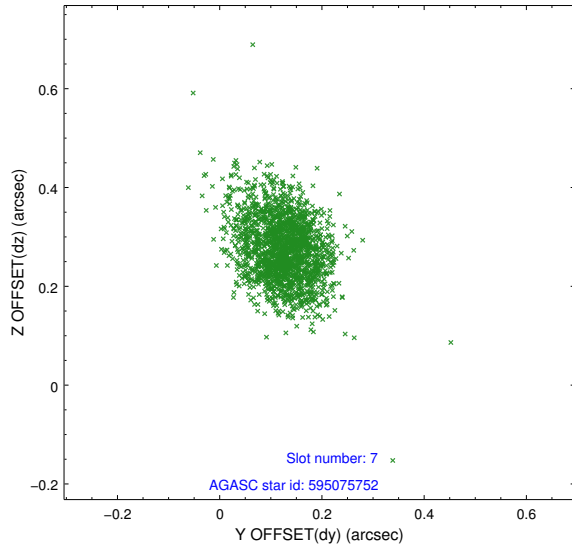
2.4.3 Slot 5



2.4.4 Slot 6

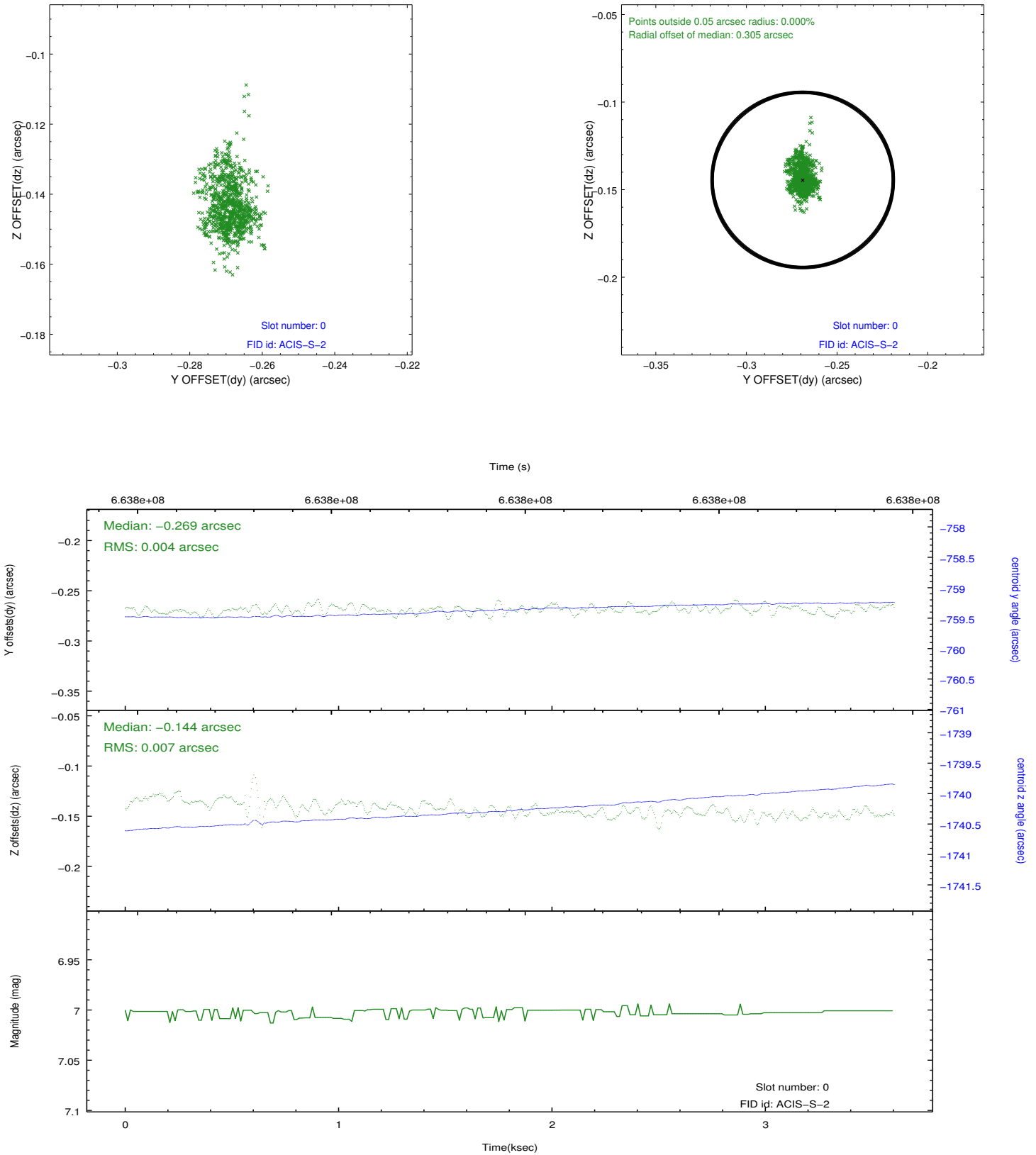


2.4.5 Slot 7

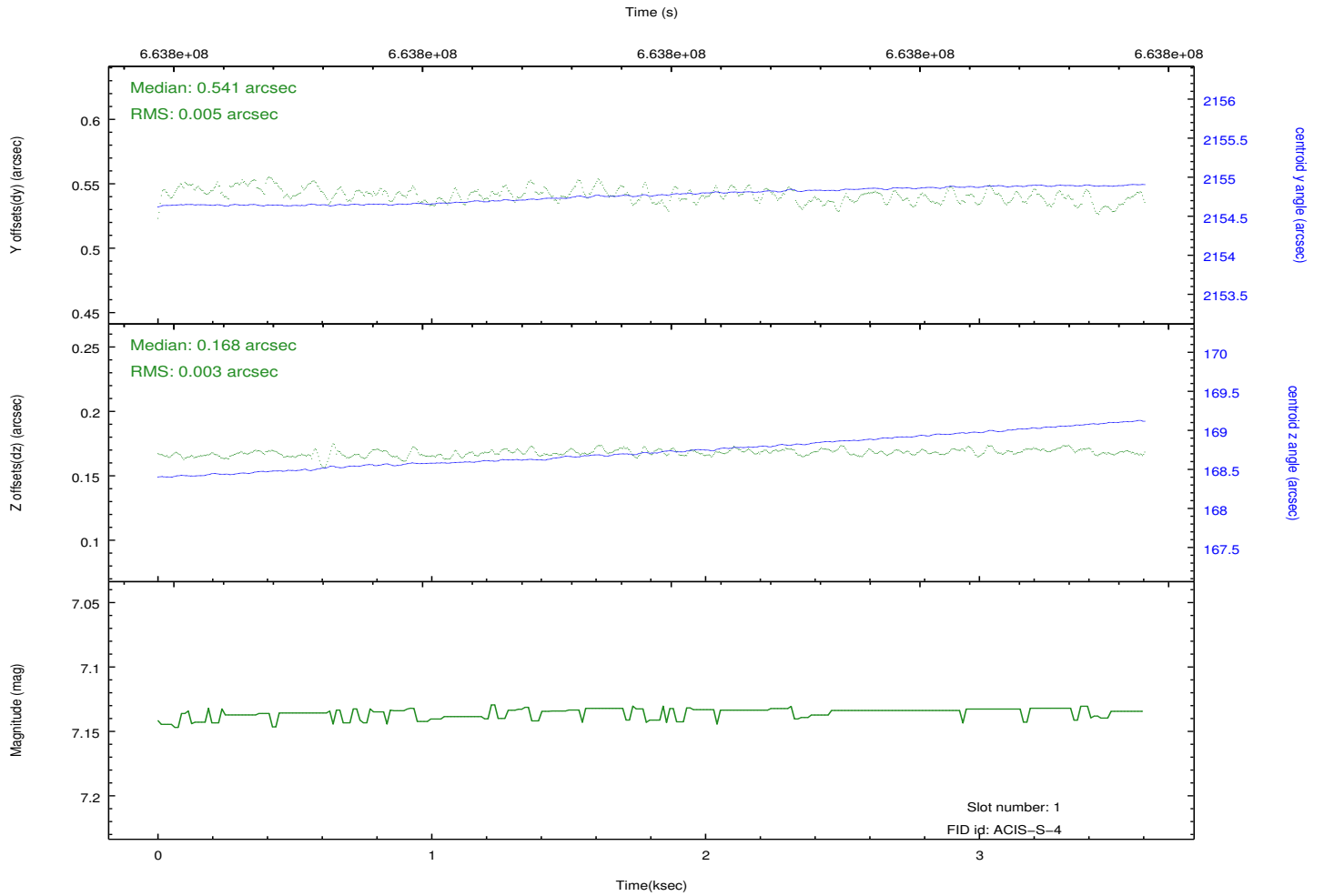
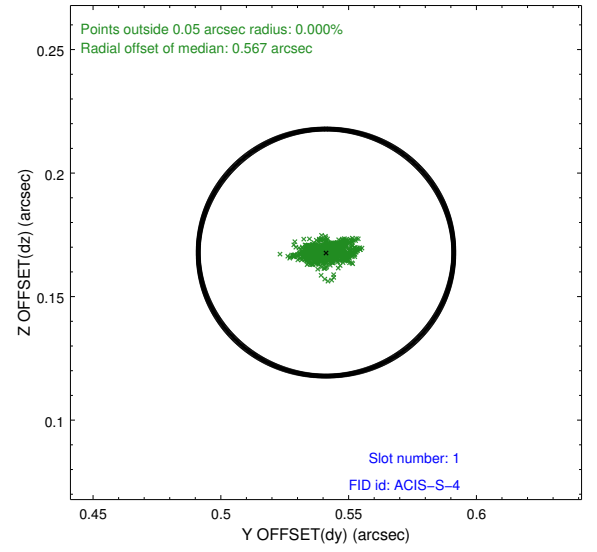
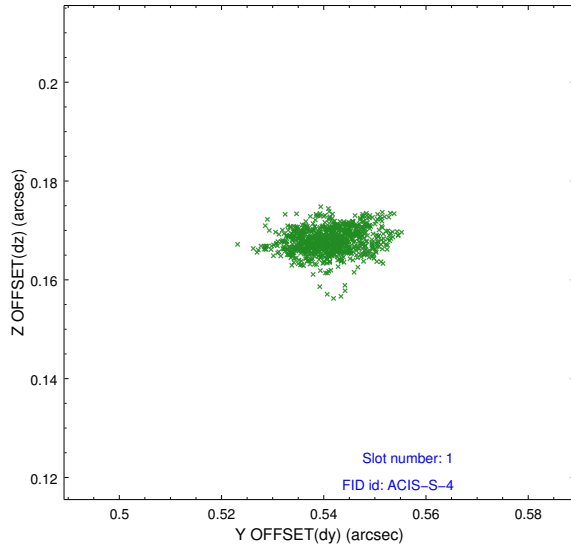


2.5 FID Slots

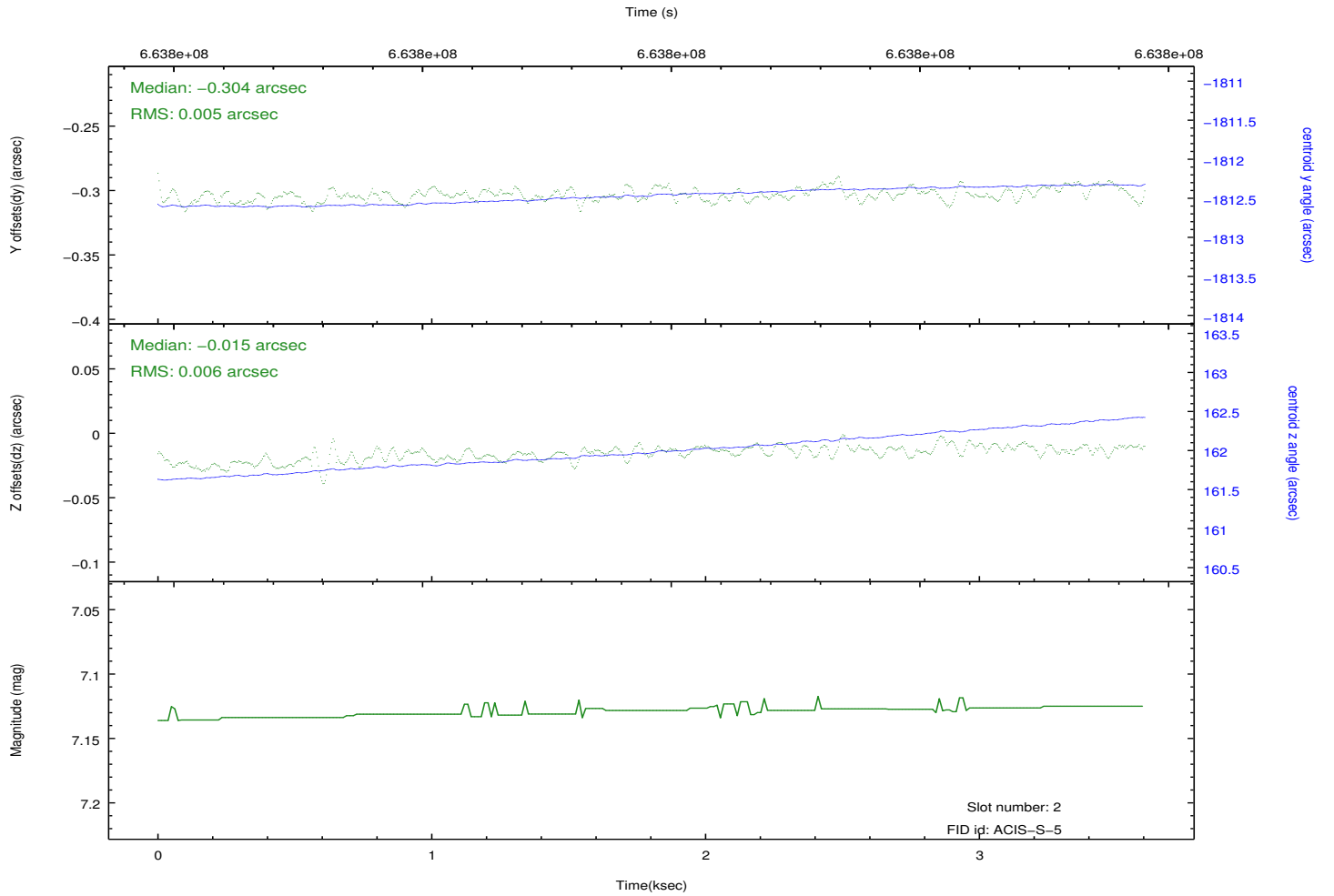
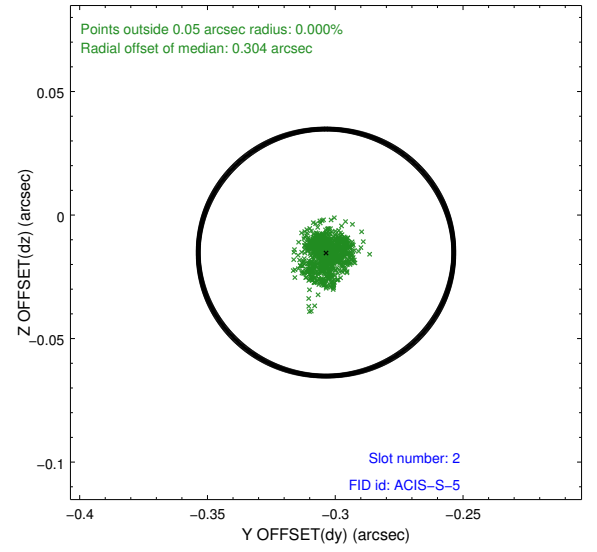
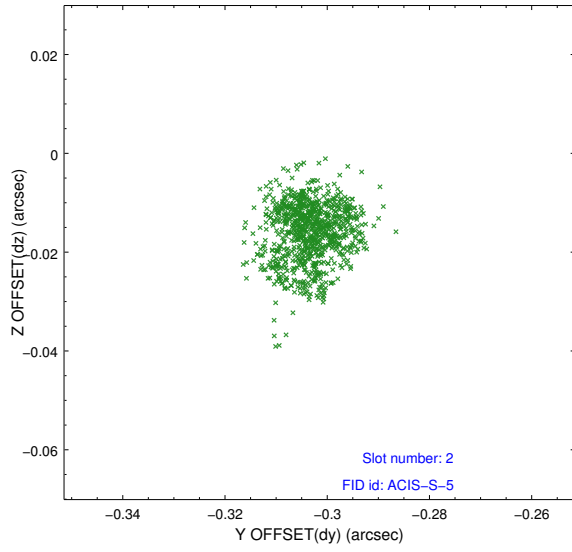
2.5.1 Slot 0



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)	2019.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5512930541039

A.2 Comments