

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21269 - L2 Version 1
Chandra X-Ray Center

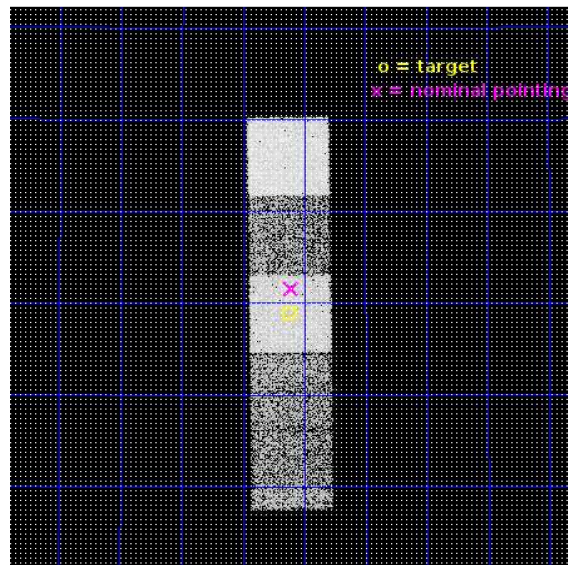
L2 Processing Date : Sep 13 2018

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1 Front

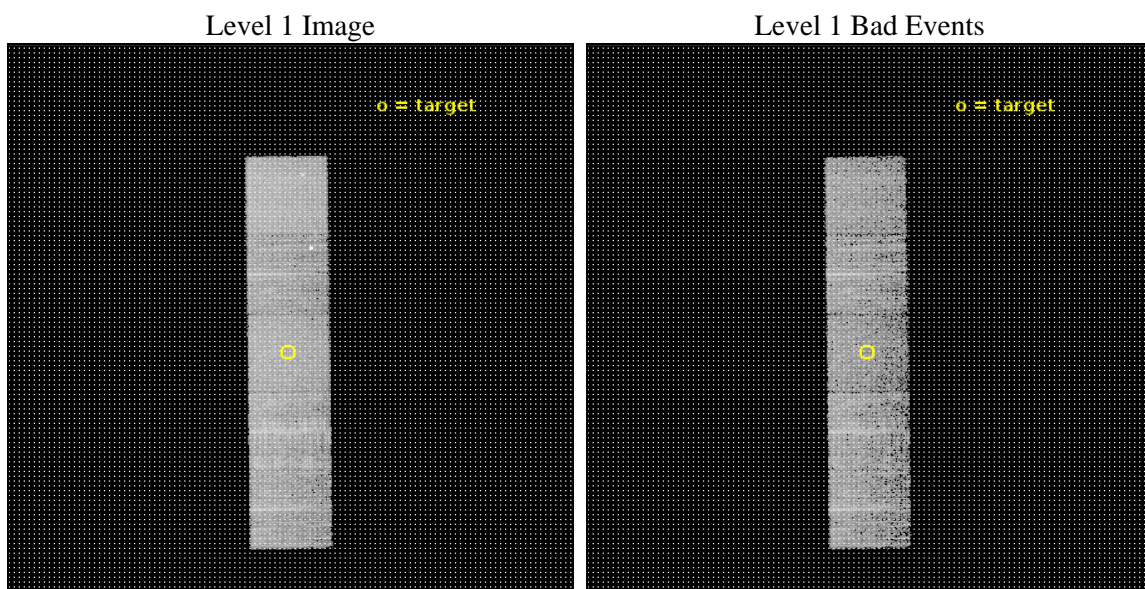
seq_num	100173	Sequence number
obs_id	21269	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.530444	Observer's specified target RA [deg]
dec_targ	31.314244	Observer's specified target Dec [deg]
ra_nom	88.525937715917	Nominal RA [deg]
dec_nom	31.35957863874	Nominal Dec [deg]
roll_nom	89.270984818108	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5053.0000389814	Sum of GTIs [s]
livetime	4986.9788735076	Livetime [s]
ontime5	5053.0000389814	Sum of GTIs [s]
ontime6	5053.0000389814	Sum of GTIs [s]
ontime7	5053.0000389814	Sum of GTIs [s]
ontime8	5053.0000389814	Sum of GTIs [s]
ontime9	5053.0000389814	Sum of GTIs [s]
l2events	60623	Number of level 2 events



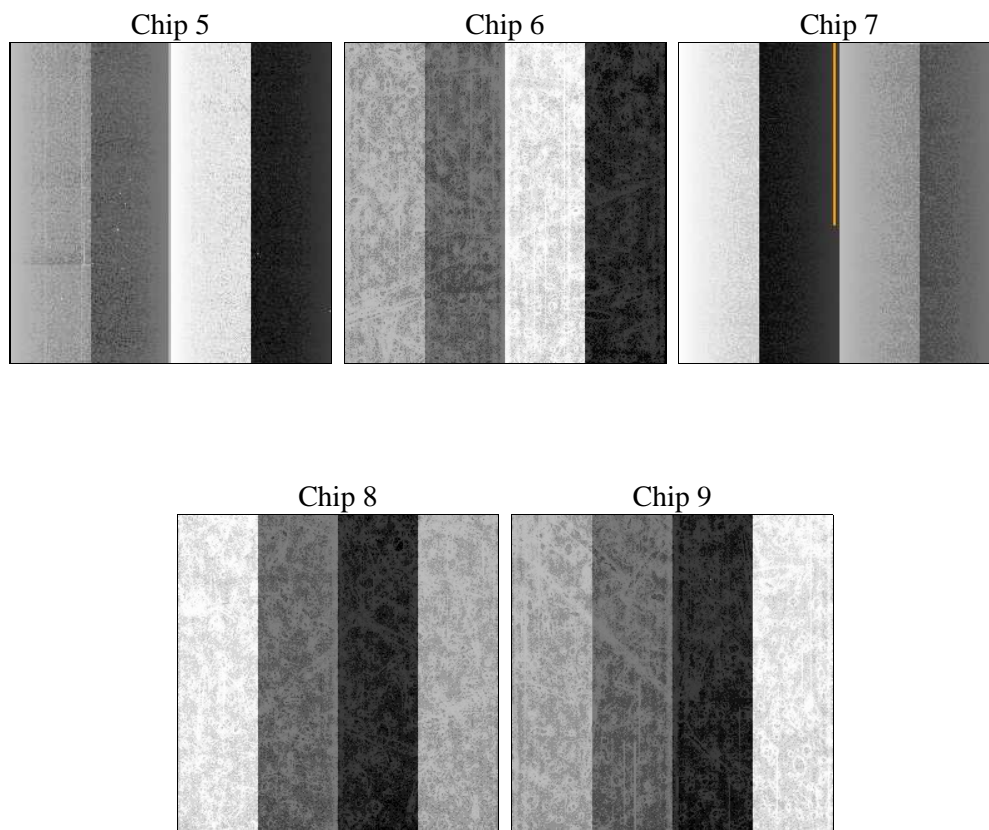
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	5053.0000389814	Sum of GTIs [s]
caldsver	4.8.0	 	ontime5	5053.0000389814	Sum of GTIs [s]
date	2018-09-13T07:21:16	Date and time of file creation	ontime6	5053.0000389814	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5053.0000389814	Sum of GTIs [s]
			ontime8	5053.0000389814	Sum of GTIs [s]
			ontime9	5053.0000389814	Sum of GTIs [s]
			l1events	247583	Number of level 1 events

2.1.4 Events

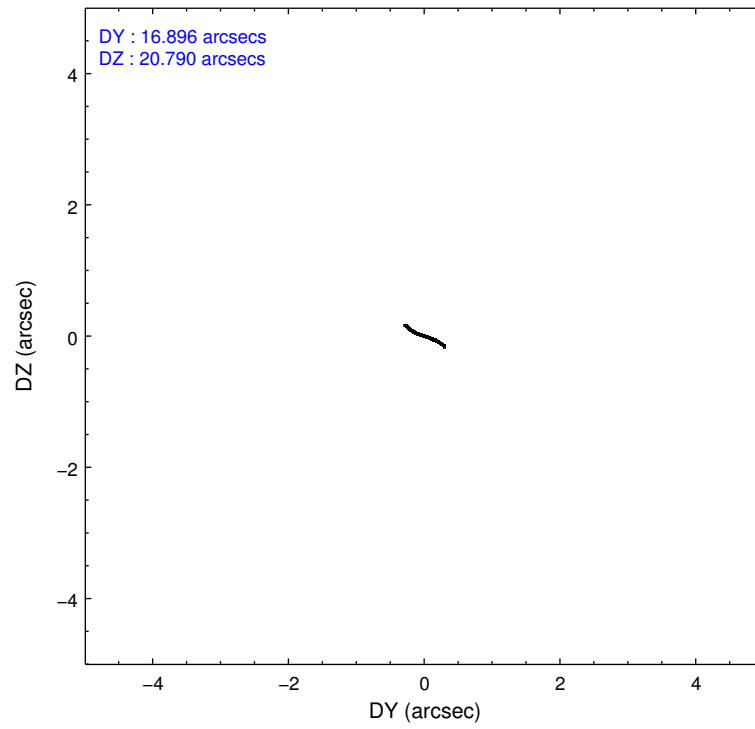
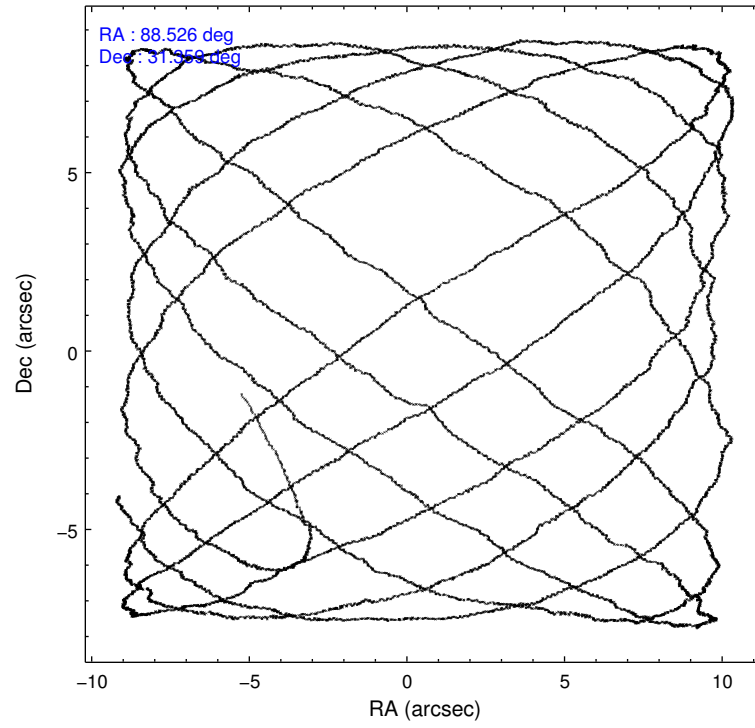
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	61019	42771	50055	52811	40927
rejected events	32823	36954	28856	38965	36231
rejected %	53%	86%	57%	73%	88%

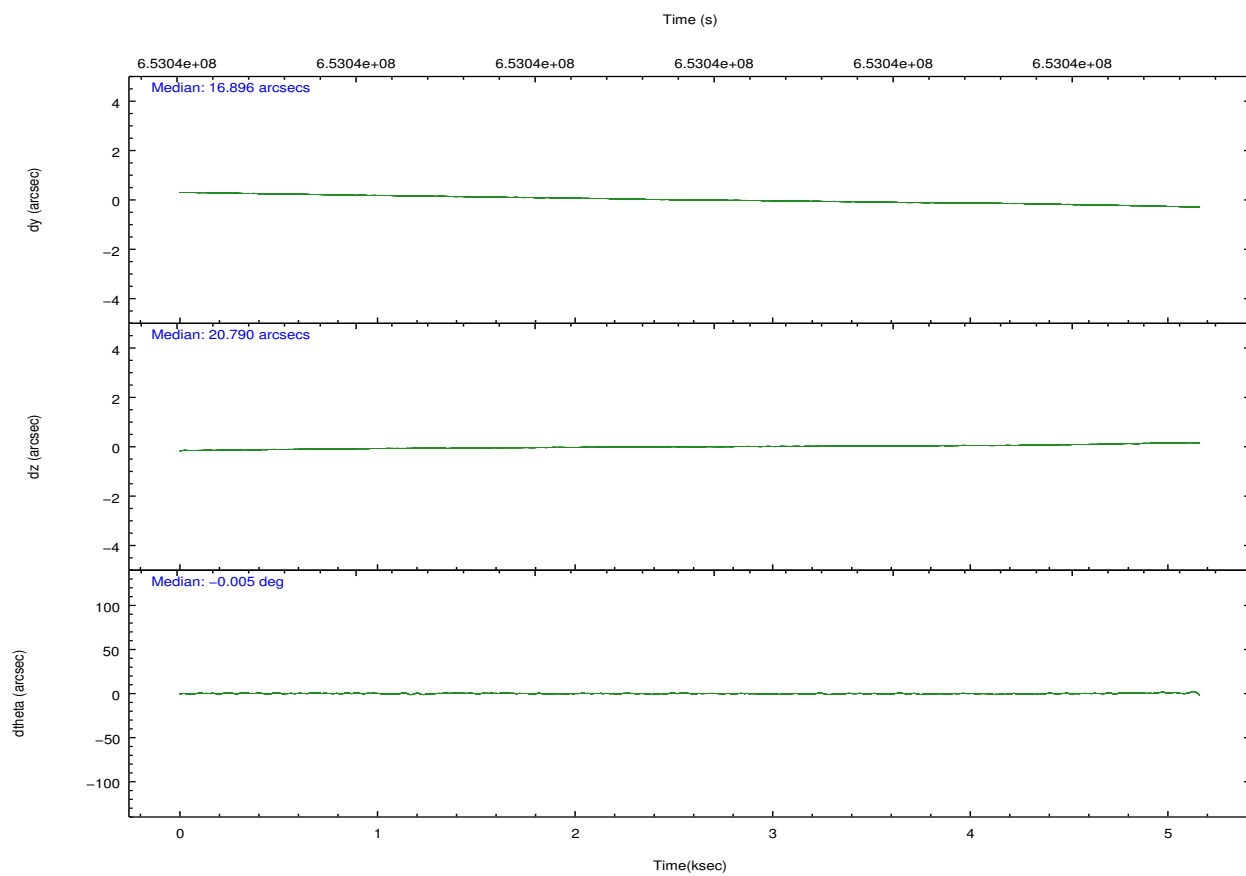
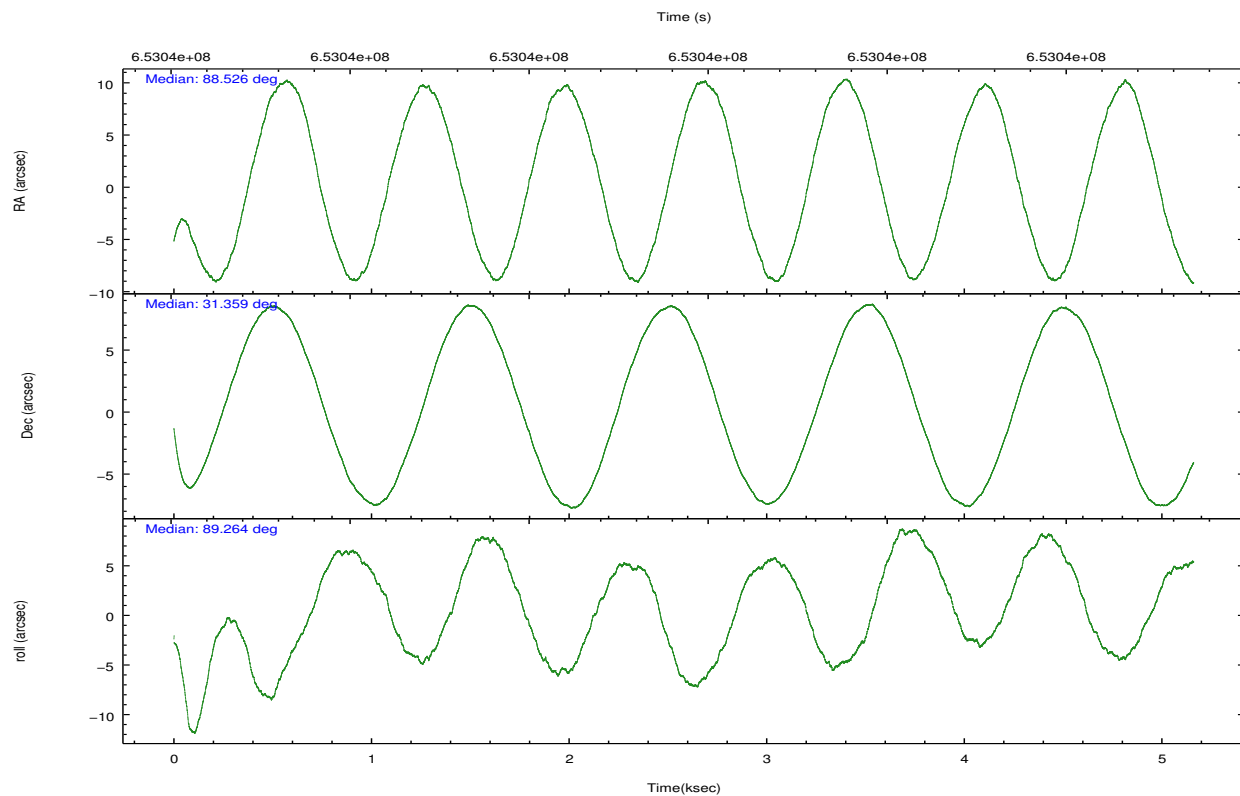
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1645	2804	1943	4042	1704
	2%	6%	3%	7%	4%
grade 1 events	171	18	93	38	22
	0%	0%	0%	0%	0%
grade 2 events	9162	1140	4532	3484	1115
	15%	2%	9%	6%	2%
grade 3 events	834	416	1713	1453	491
	1%	0%	3%	2%	1%
grade 4 events	790	409	1638	1343	417
	1%	0%	3%	2%	1%
grade 5 events	4055	1711	4853	2706	1918
	6%	4%	9%	5%	4%
grade 6 events	16542	1197	11960	3936	1094
	27%	2%	23%	7%	2%
grade 7 events	27820	35076	23323	35809	34166
	45%	82%	46%	67%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	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	88.542099	88.52593771591702	CCD I2 on	N	N
[deg] Pointing Dec	31.335862	31.35957863873972	CCD I3 on	N	N
[deg] Pointing Roll	89.105927	89.27098481810836	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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)	653038443.184000	653037202.5203	CCD S5 on	O2	Y
Observation start date	2018-09-11T07:32:54	2018-09-11T07:13:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	653043443.184000	653043576.99568	On-chip summing requested	N	N
Observation end date	2018-09-11T08:56:14	2018-09-11T08:59:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



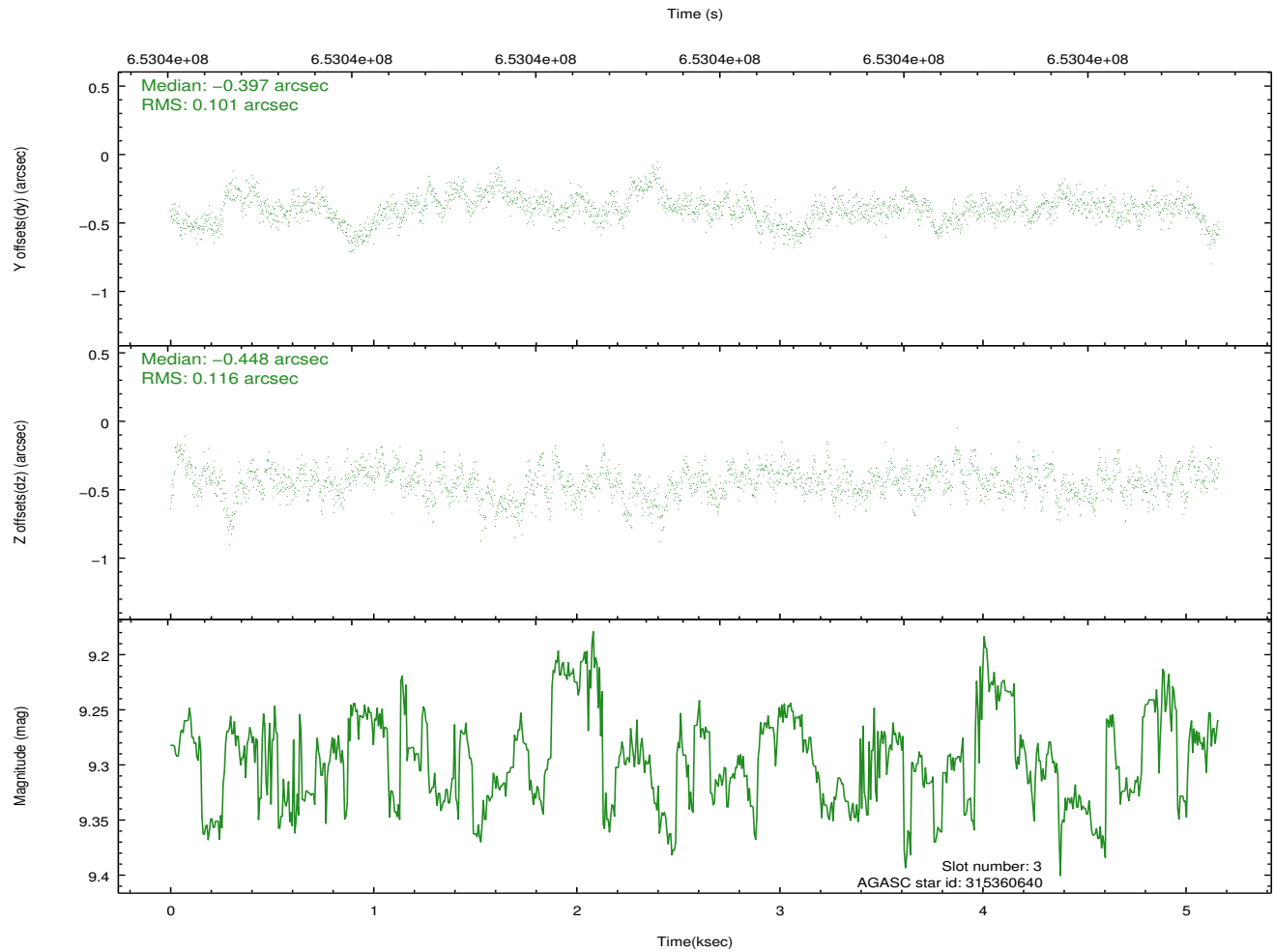
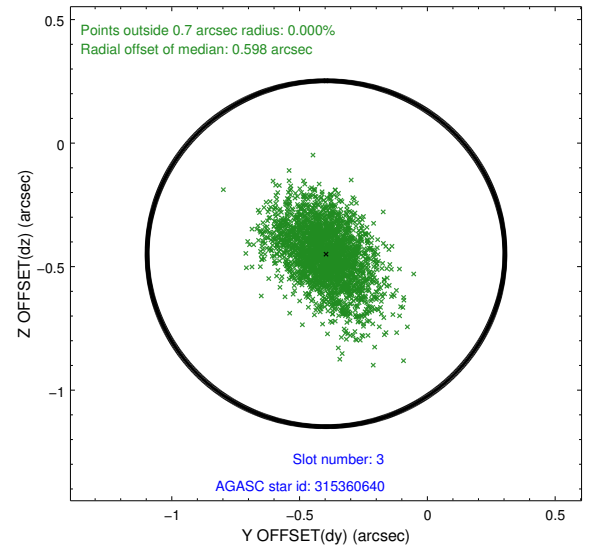
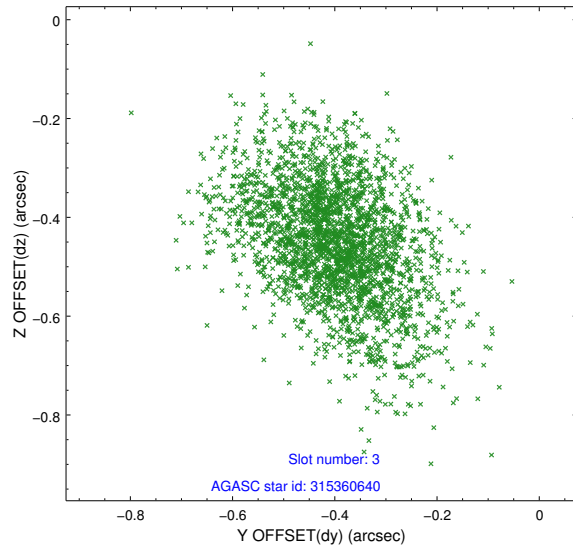


Slot Statistics

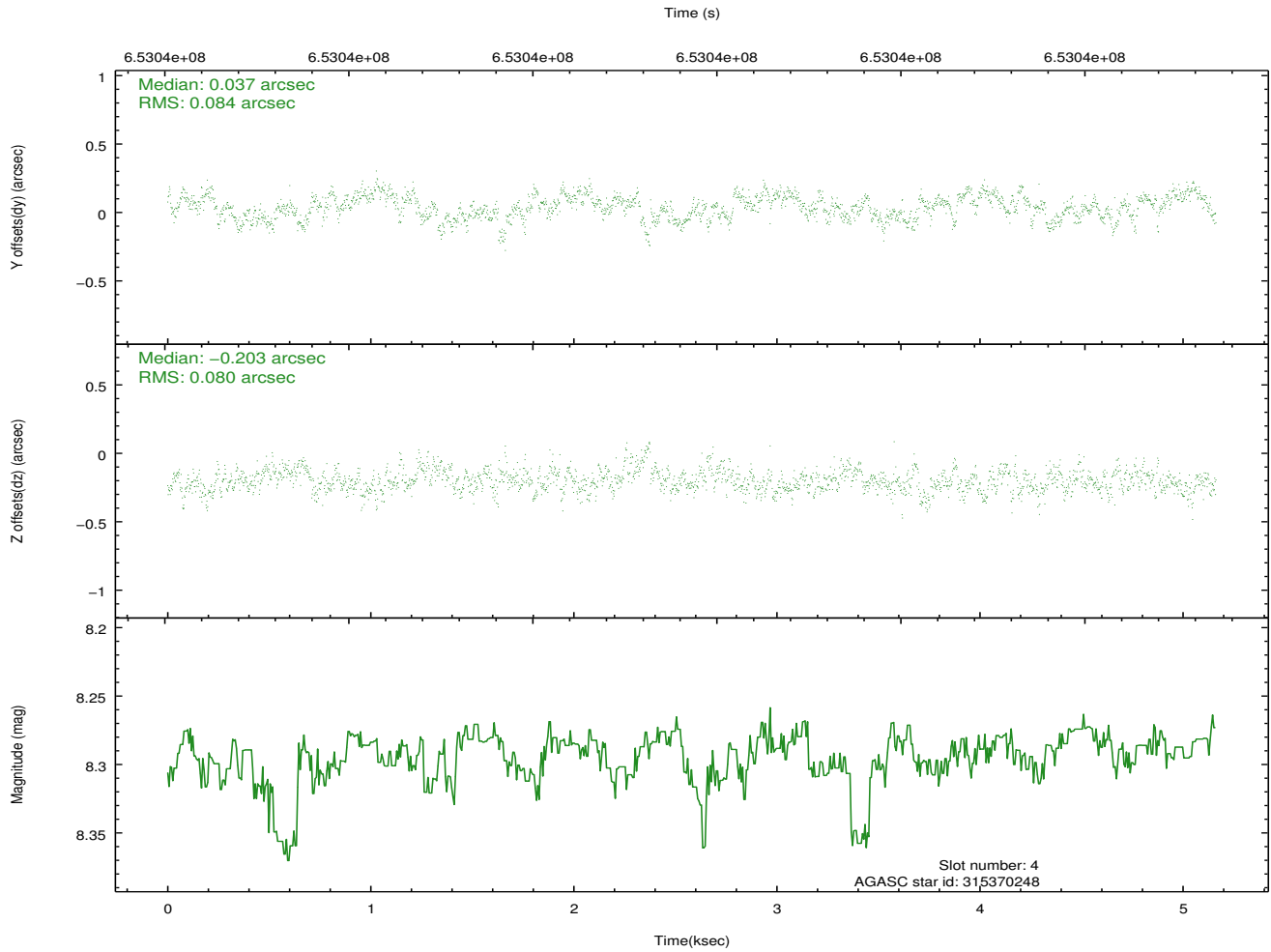
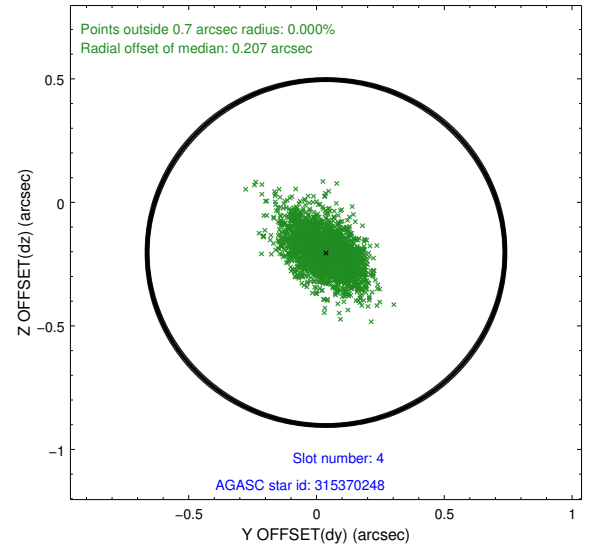
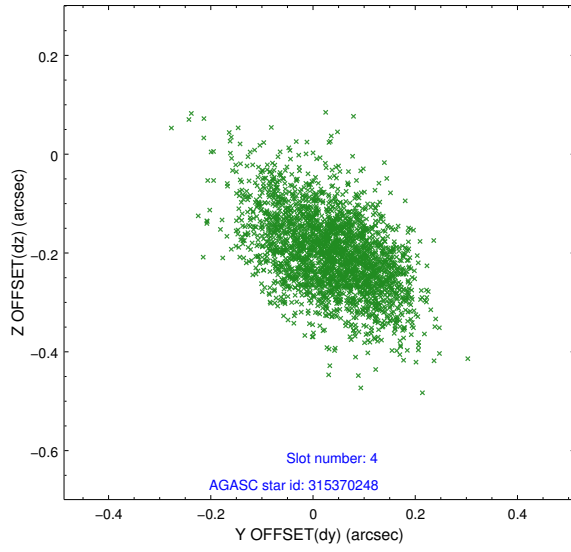
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.06	1259	1.000	-0.217	-0.092	0.009	0.015	0.000000	0.000000	-770.11	-1742
1	FID		ACIS-S-4	7.16	1259	1.000	0.485	0.129	0.009	0.016	0.000000	0.000000	2143.29	165
2	FID		ACIS-S-5	7.15	1259	1.000	-0.299	-0.028	0.014	0.023	0.000000	0.000000	-1821.57	159
3	GUIDE	used	315360640	9.30	2518	1.000	-0.397	-0.448	0.160	0.274	88.146825	31.452830	404.10	1220
4	GUIDE	used	315370248	8.29	2517	1.000	0.037	-0.203	0.121	0.204	87.935825	30.749932	-2133.69	1843
5	GUIDE	used	315376264	8.70	2517	1.000	0.275	0.543	0.124	0.201	88.902699	30.711380	-2228.72	-1150
6	GUIDE	used	315376720	7.89	2517	1.000	-0.202	-0.280	0.127	0.217	87.931221	30.957268	-1387.96	1863
7	GUIDE	used	315376832	8.92	2447	1.000	0.298	0.410	0.139	0.224	88.765158	30.804192	-1902.28	-718

2.4 Star Slots

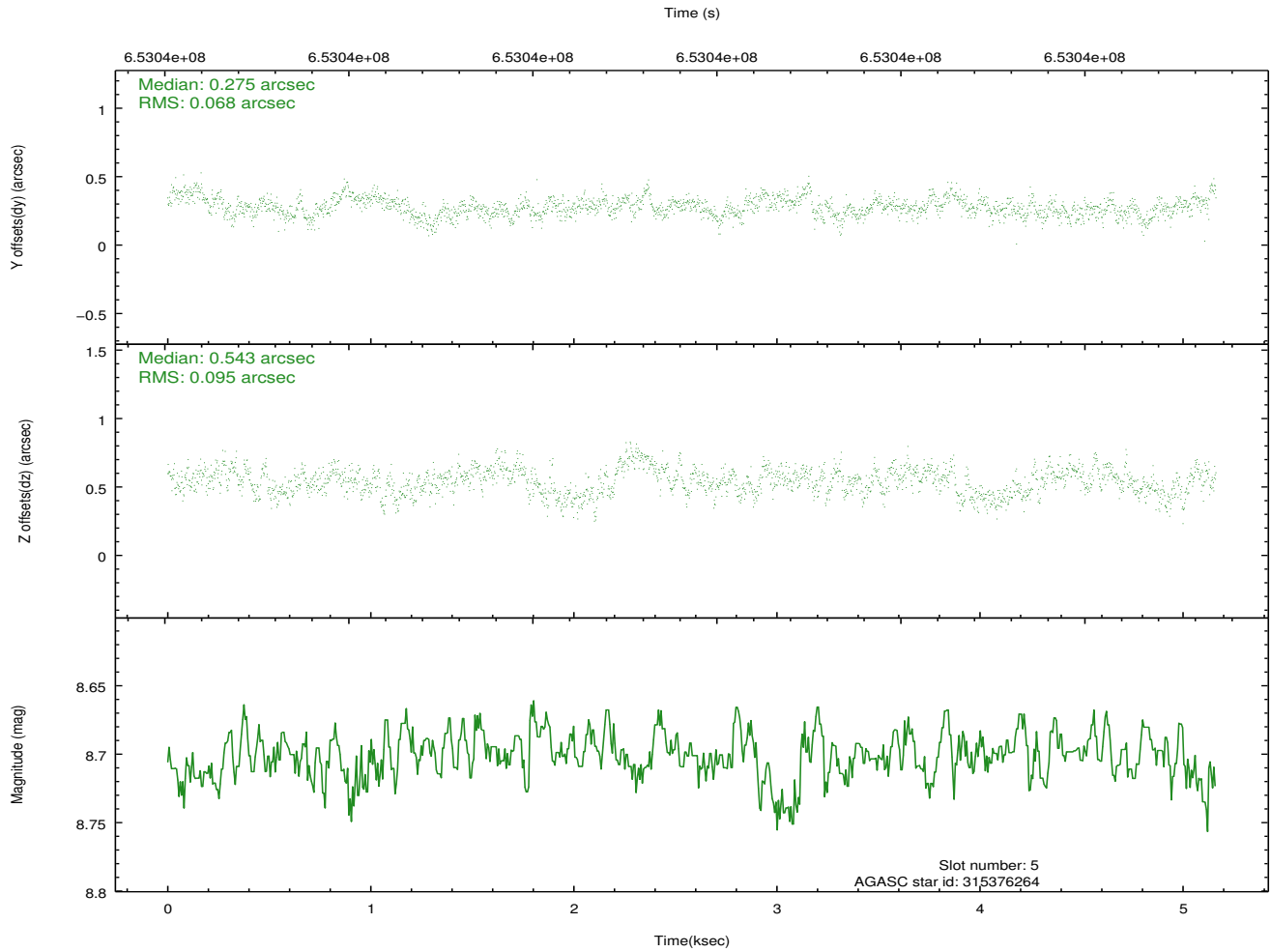
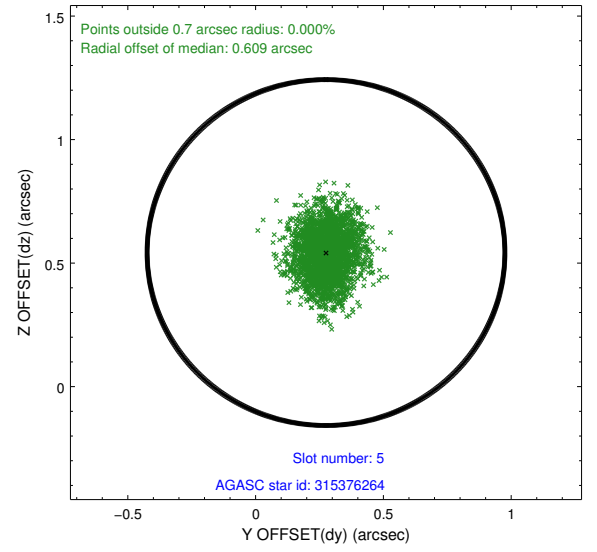
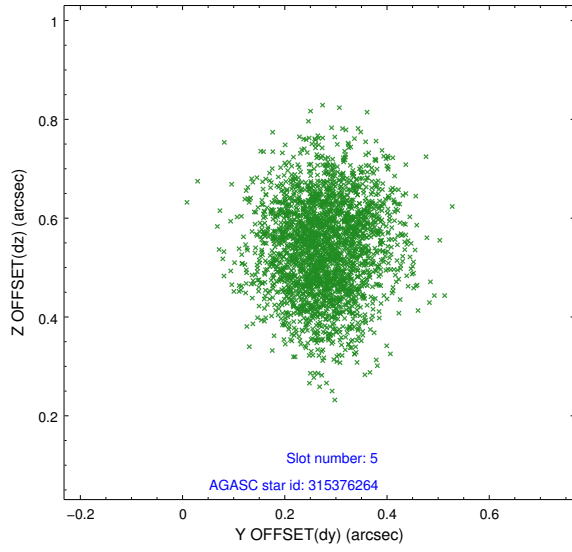
2.4.1 Slot 3



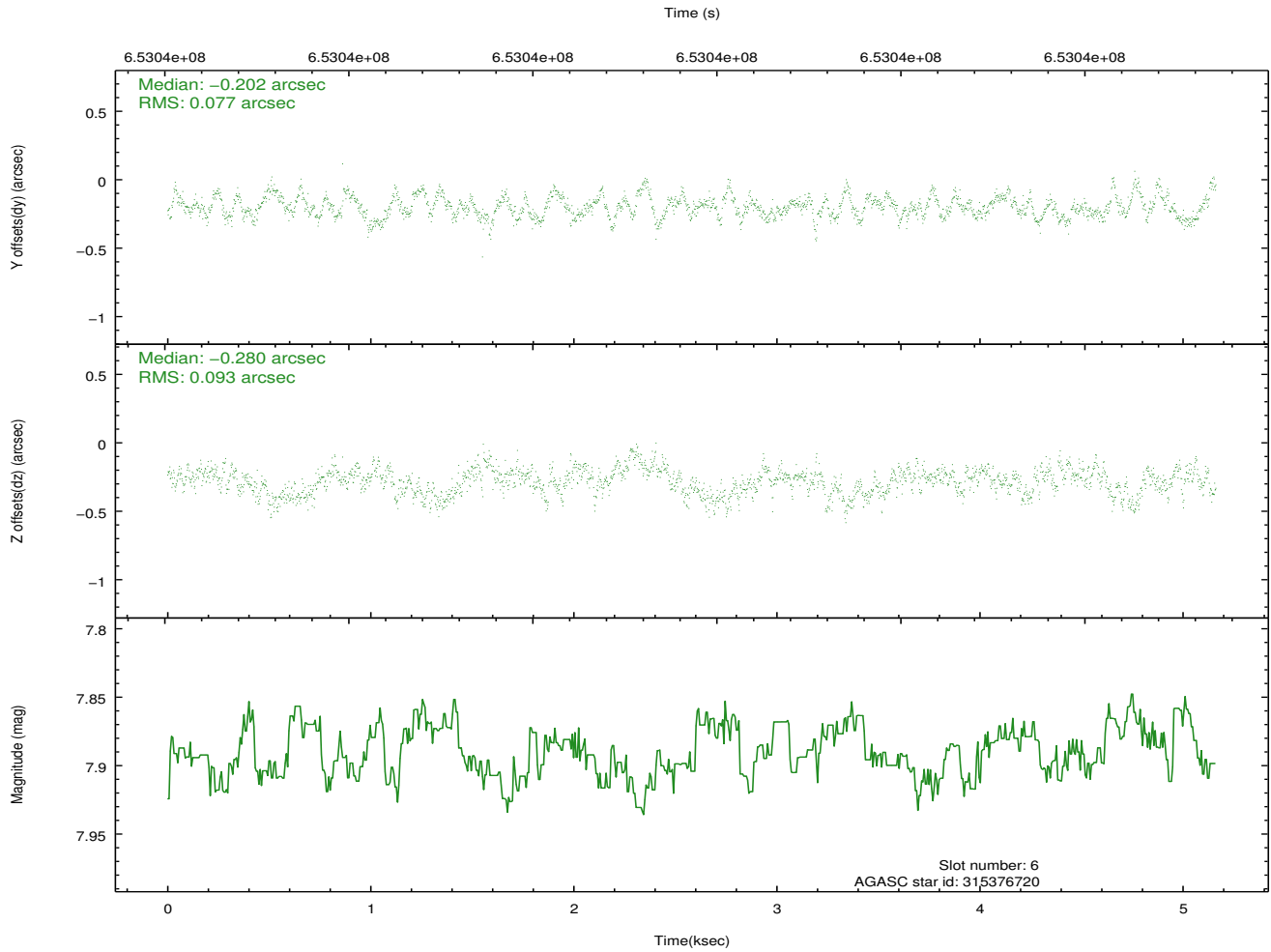
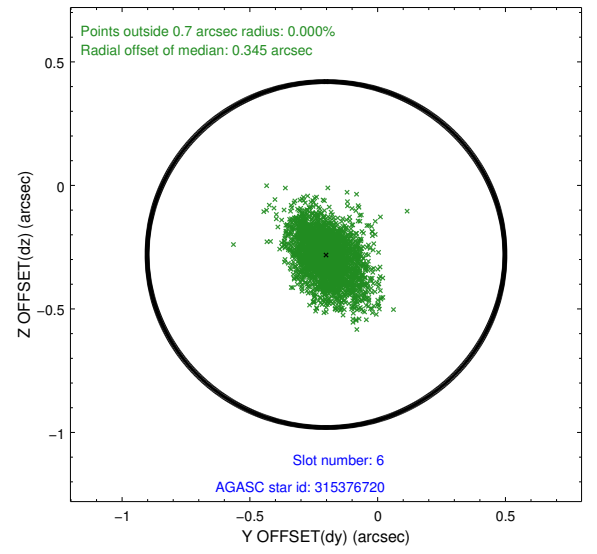
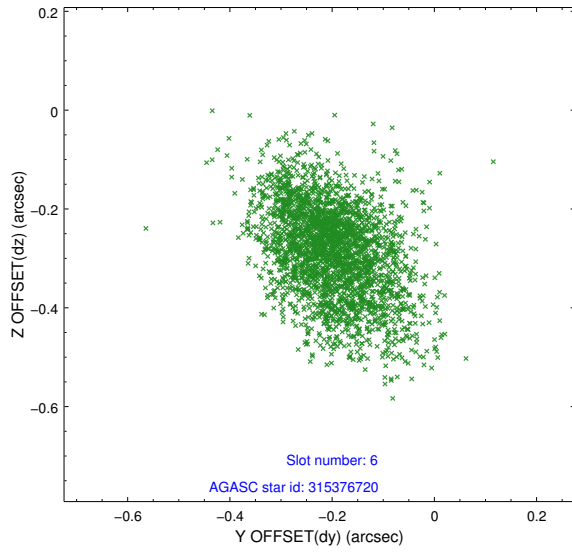
2.4.2 Slot 4



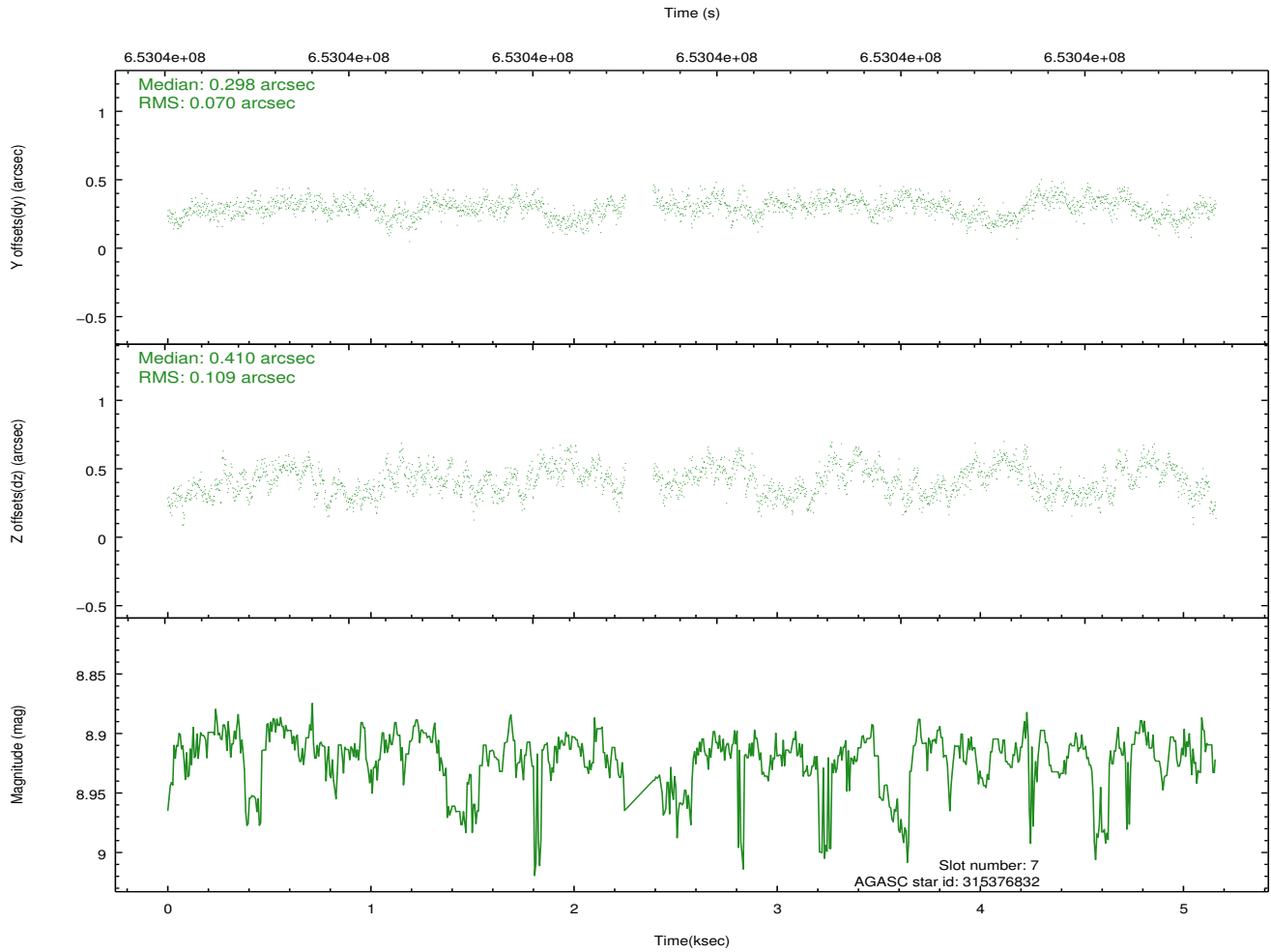
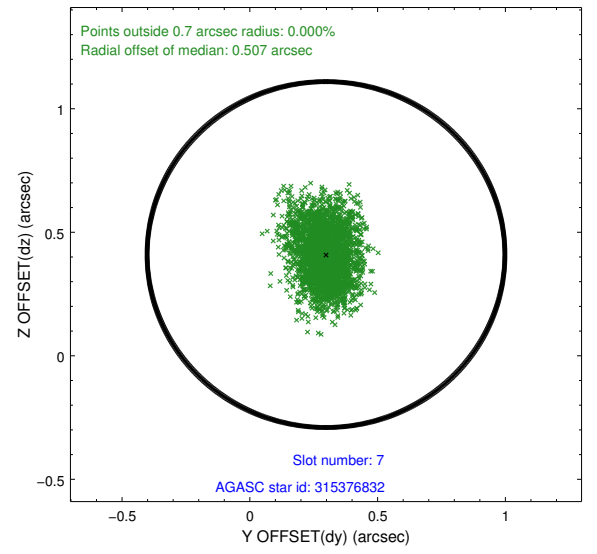
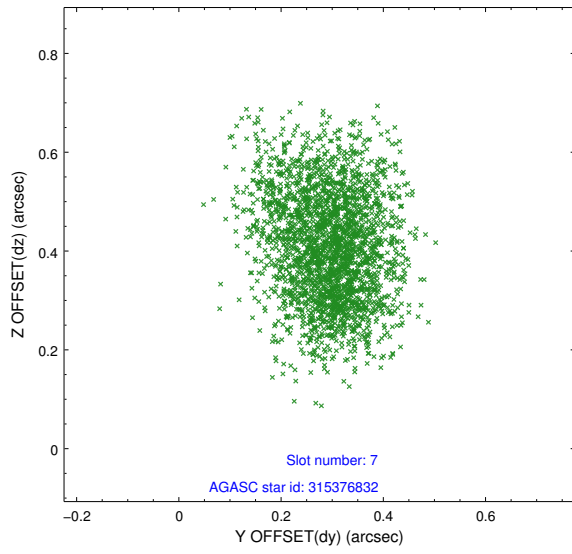
2.4.3 Slot 5



2.4.4 Slot 6

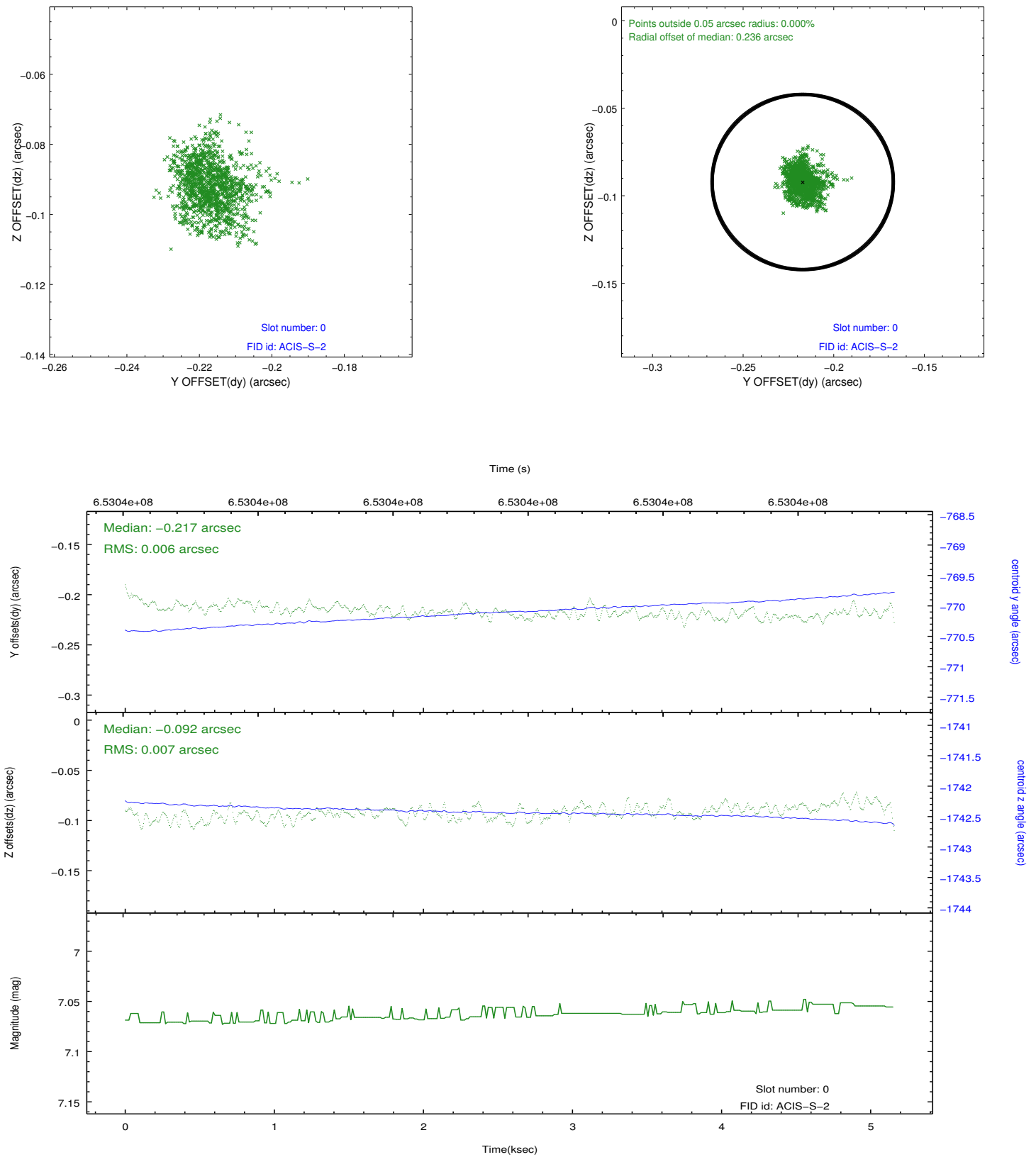


2.4.5 Slot 7

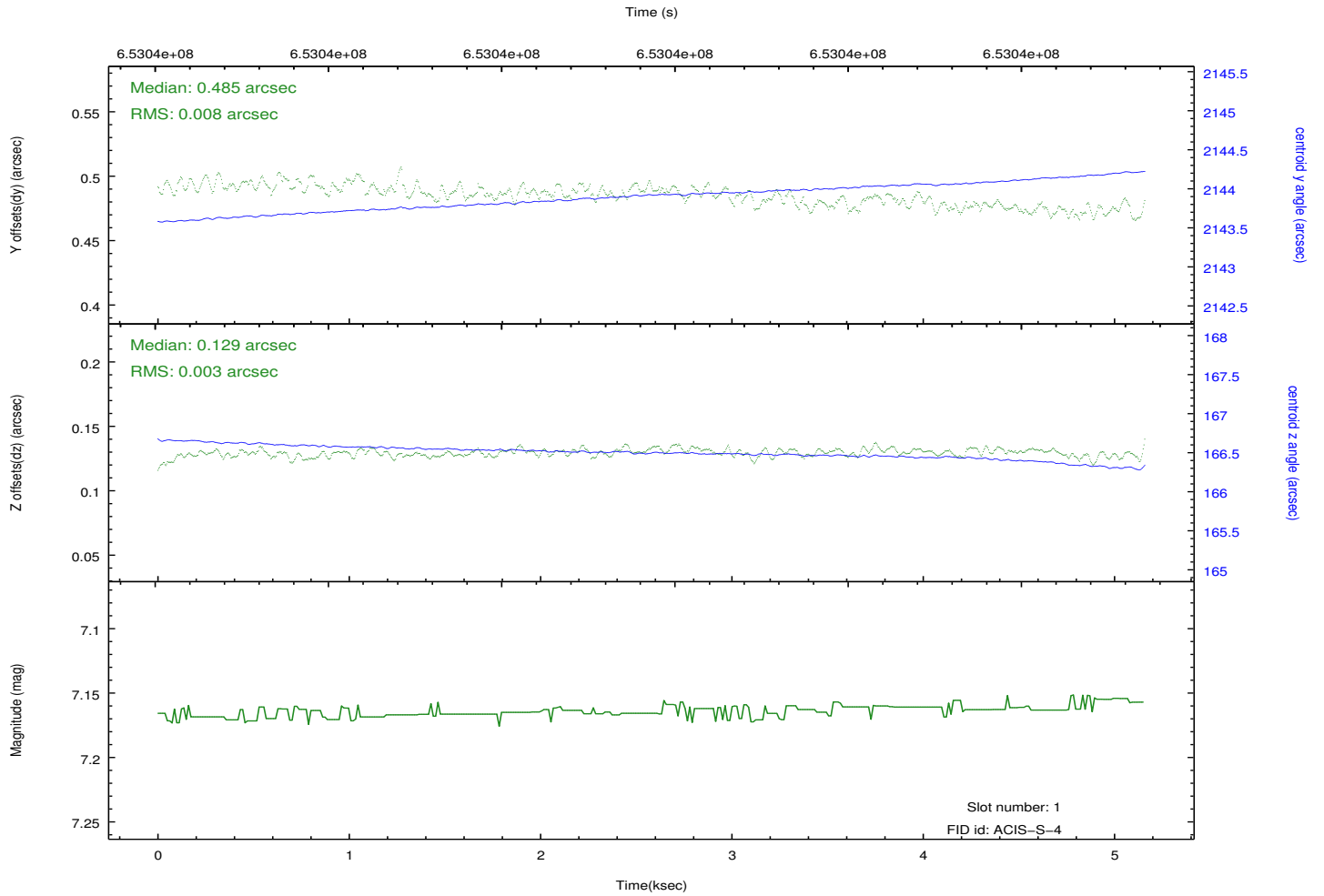
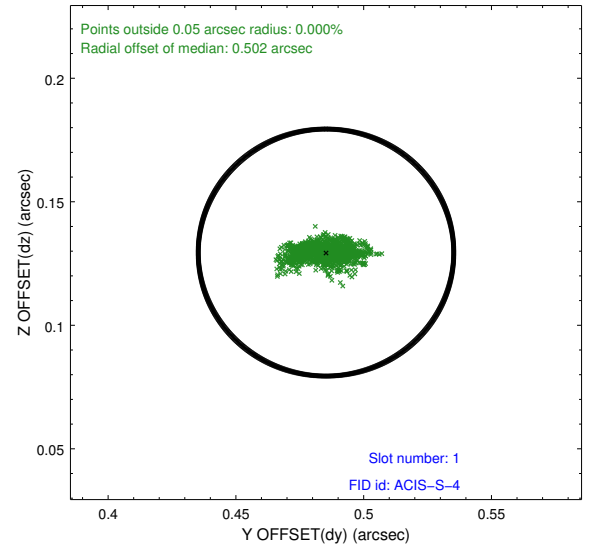
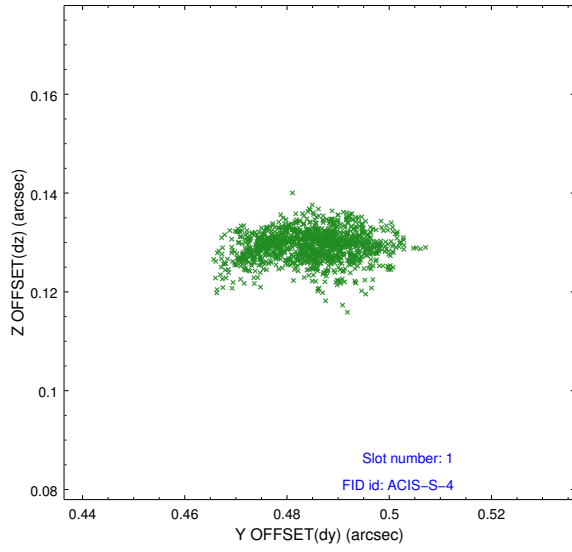


2.5 FID Slots

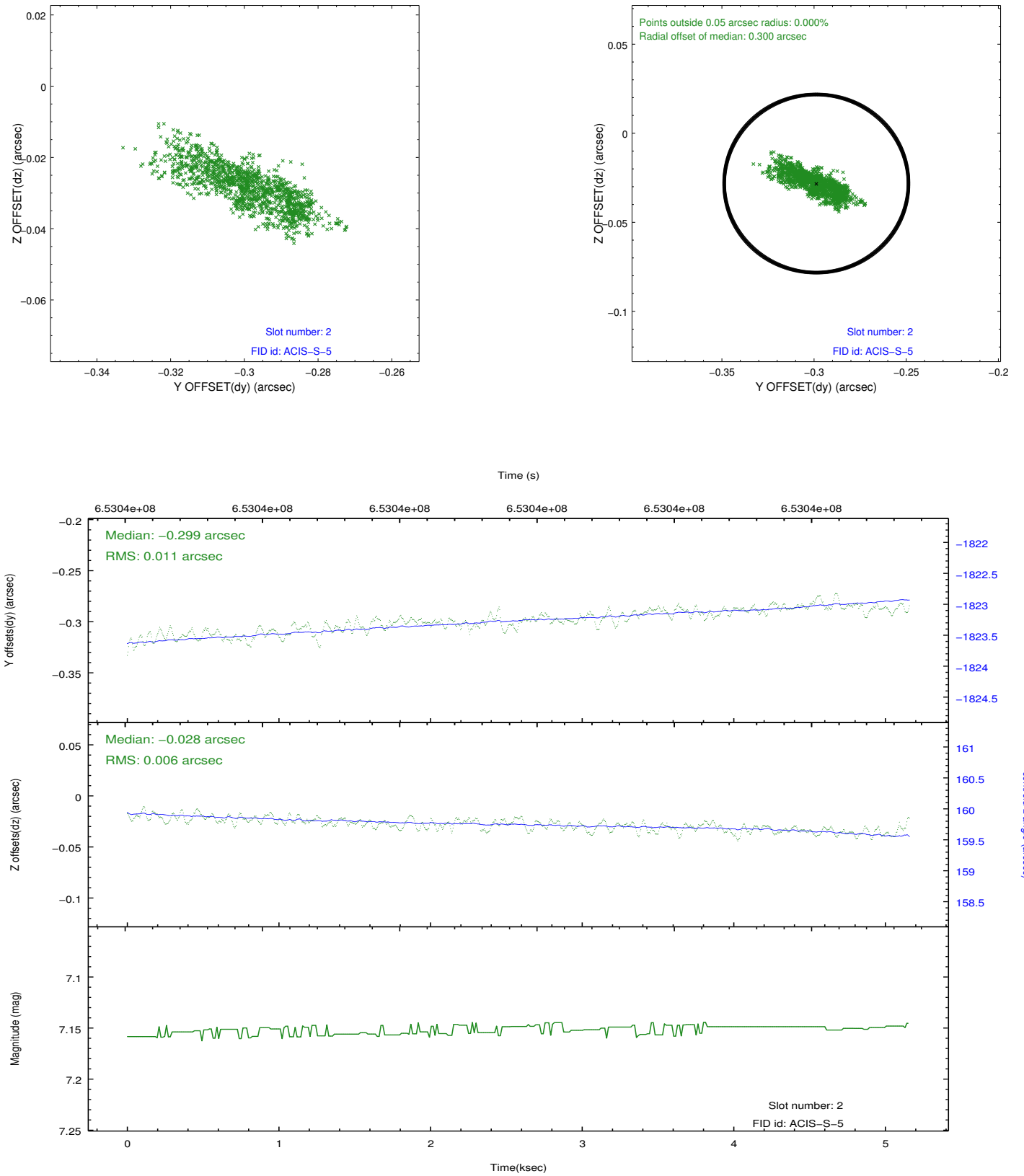
2.5.1 Slot 0



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)	2018.09.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0530000389814

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.