

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18220 - L2 Version 1
Chandra X-Ray Center

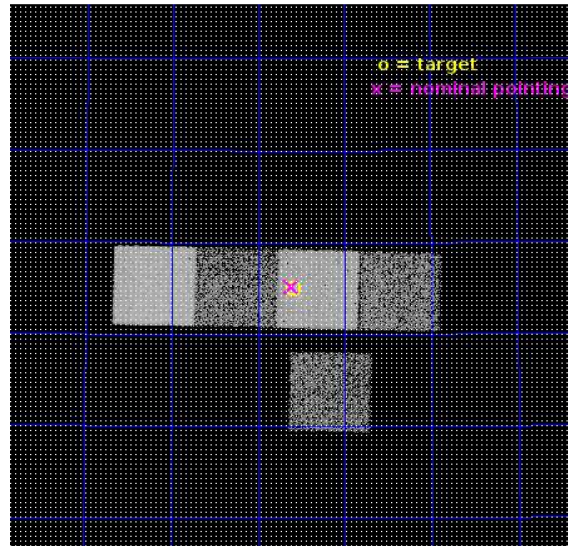
L2 Processing Date : Sep 26 2016

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1 Front

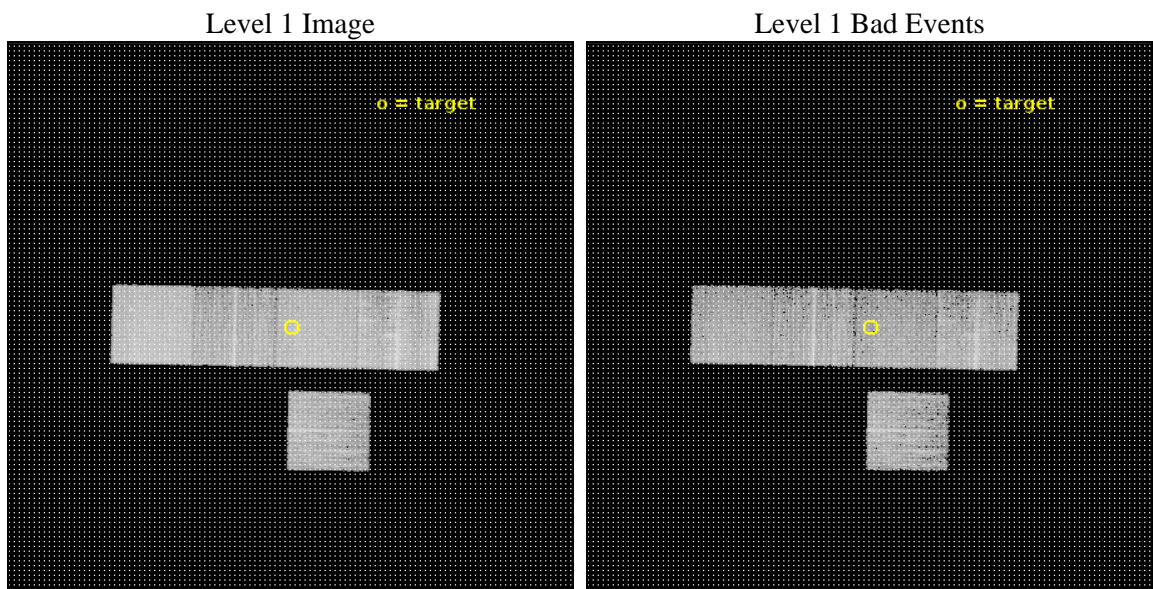
seq_num	801548	Sequence number
obs_id	18220	Observation id
title	Searching for Fossil Group Progenitors Via Strong Gravitational Lensing	Proposal title
observer	Lucas Johnson	Principal investigator
object	CSWA 36	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.899583	Observer's specified target RA [deg]
dec_targ	52.916389	Observer's specified target Dec [deg]
ra_nom	181.90354763354	Nominal RA [deg]
dec_nom	52.919768482482	Nominal Dec [deg]
roll_nom	1.3528881580217	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8047.6000620127	Sum of GTIs [s]
livetime	7942.4522426455	Livetime [s]
ontime3	8047.5737154484	Sum of GTIs [s]
ontime5	8047.6000620127	Sum of GTIs [s]
ontime6	8047.6000620127	Sum of GTIs [s]
ontime7	8047.6000620127	Sum of GTIs [s]
ontime8	8044.391715169	Sum of GTIs [s]
l2events	88690	Number of level 2 events



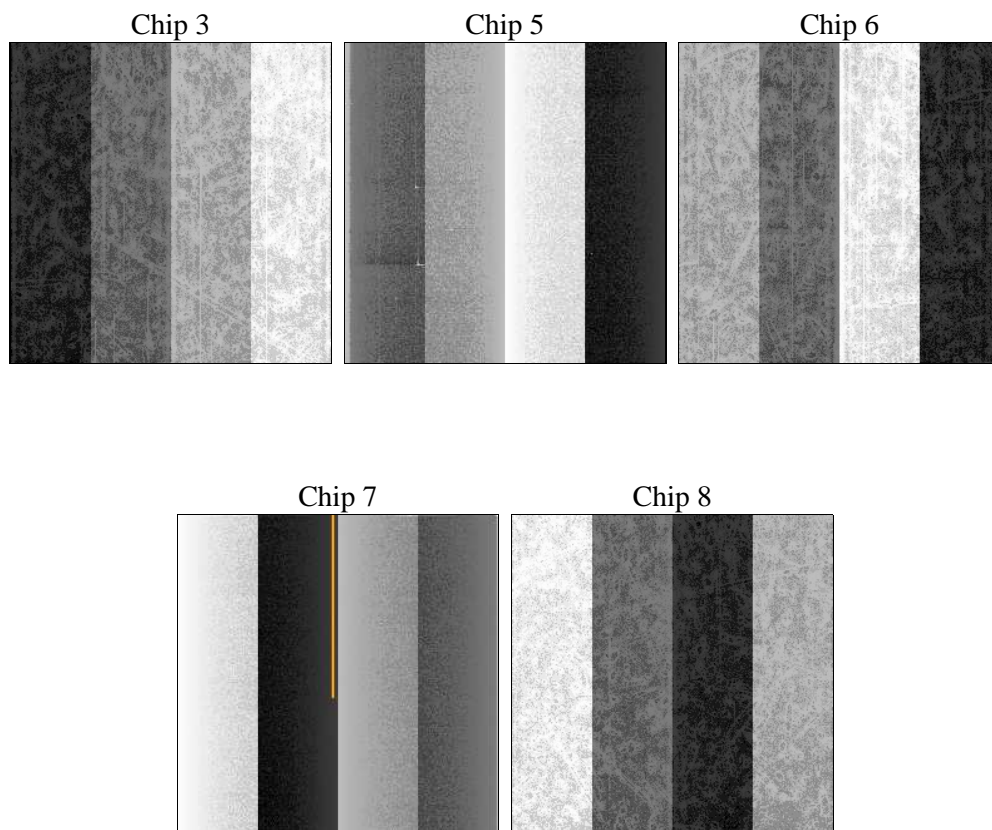
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	8047.6000620127	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	8047.5737154484	Sum of GTIs [s]
date	2016-09-26T17:20:01	Date and time of file creation	ontime5	8047.6000620127	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8047.6000620127	Sum of GTIs [s]
			ontime7	8047.6000620127	Sum of GTIs [s]
			ontime8	8044.391715169	Sum of GTIs [s]
			l1events	340503	Number of level 1 events

2.1.4 Events

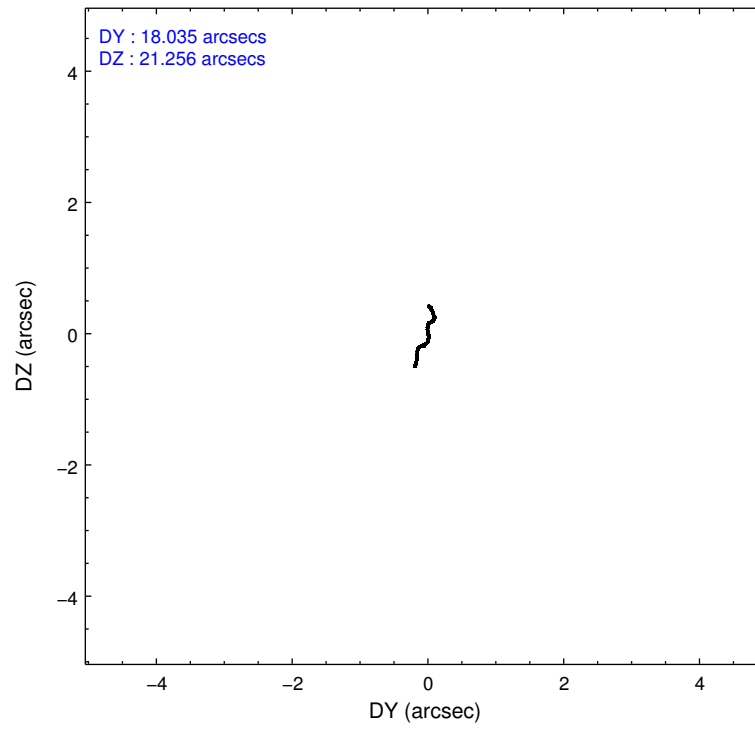
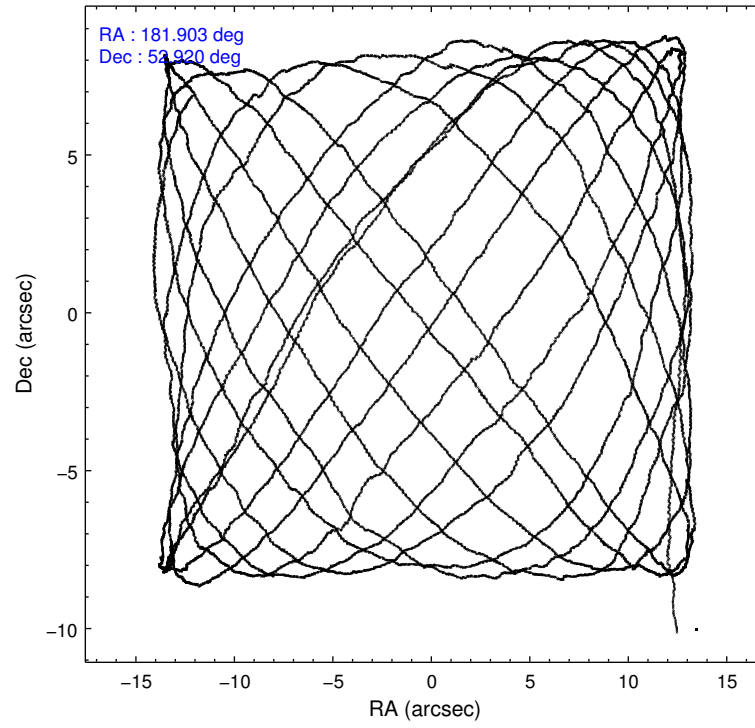
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	55160	85156	55403	71727	73057
rejected events	49343	44116	49185	39667	53015
rejected %	89%	51%	88%	55%	72%

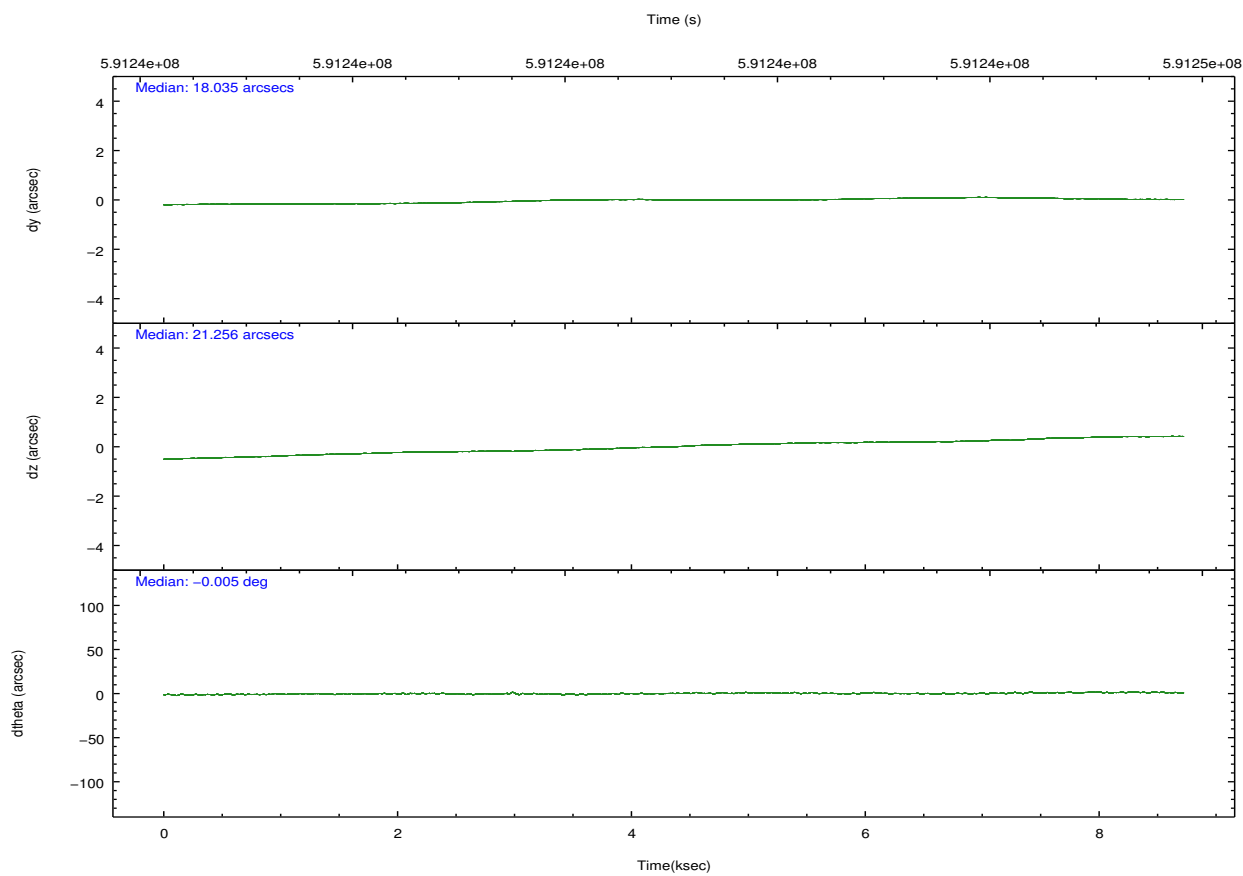
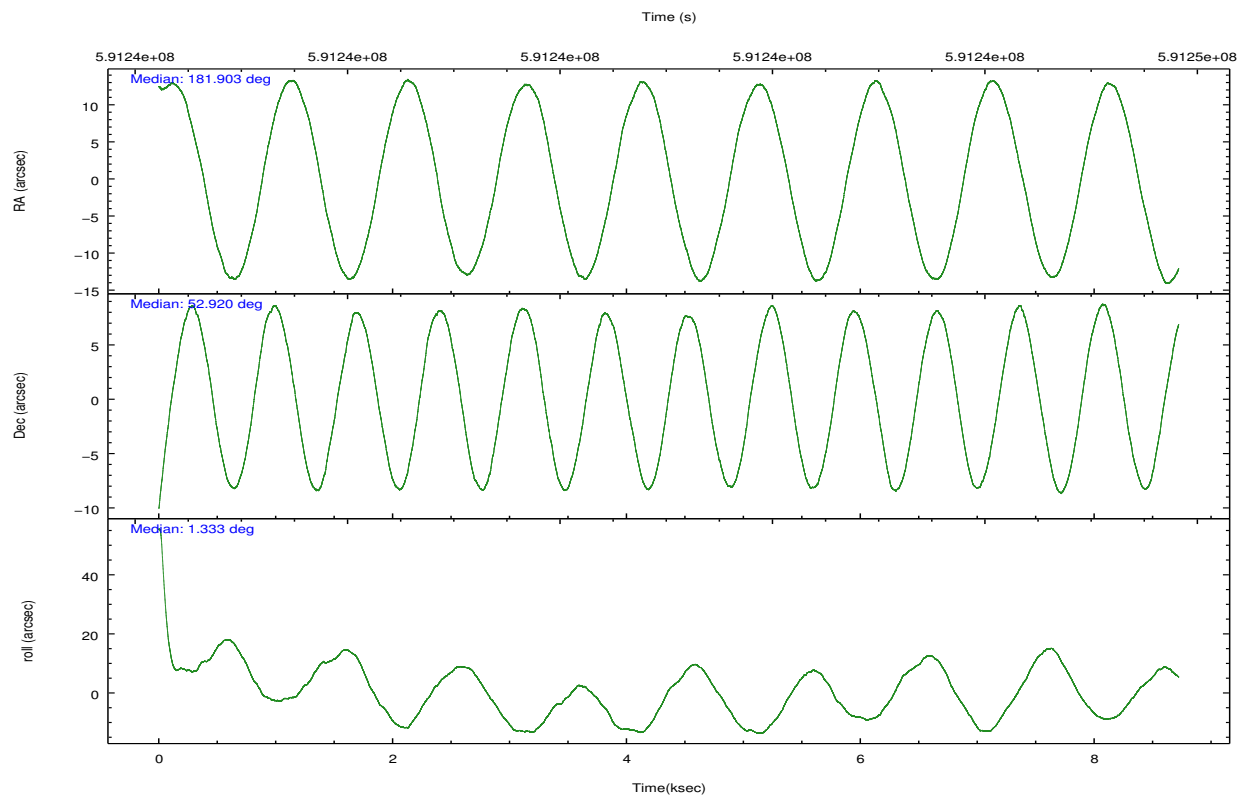
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2143	2460	2061	2888	5803
	3%	2%	3%	4%	7%
grade 1 events	31	170	29	109	53
	0%	0%	0%	0%	0%
grade 2 events	1254	12768	1464	6987	5032
	2%	14%	2%	9%	6%
grade 3 events	665	1518	652	2688	1891
	1%	1%	1%	3%	2%
grade 4 events	627	1442	613	2609	1791
	1%	1%	1%	3%	2%
grade 5 events	2563	6278	2622	7127	3910
	4%	7%	4%	9%	5%
grade 6 events	1133	22874	1431	16906	5534
	2%	26%	2%	23%	7%
grade 7 events	46744	37646	46531	32413	49043
	84%	44%	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	181.864986	181.9035476335423	CCD I2 on	N	N
[deg] Pointing Dec	52.905182	52.91976848248161	CCD I3 on	Y	Y
[deg] Pointing Roll	1.226948	1.352888158021716	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	591237396.184000	591236040.06716	CCD S5 on	N	N
Observation start date	2016-09-26T00:35:28	2016-09-26T00:14:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	591245396.184000	591246199.86775	On-chip summing requested	N	N
Observation end date	2016-09-26T02:48:48	2016-09-26T03:03:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



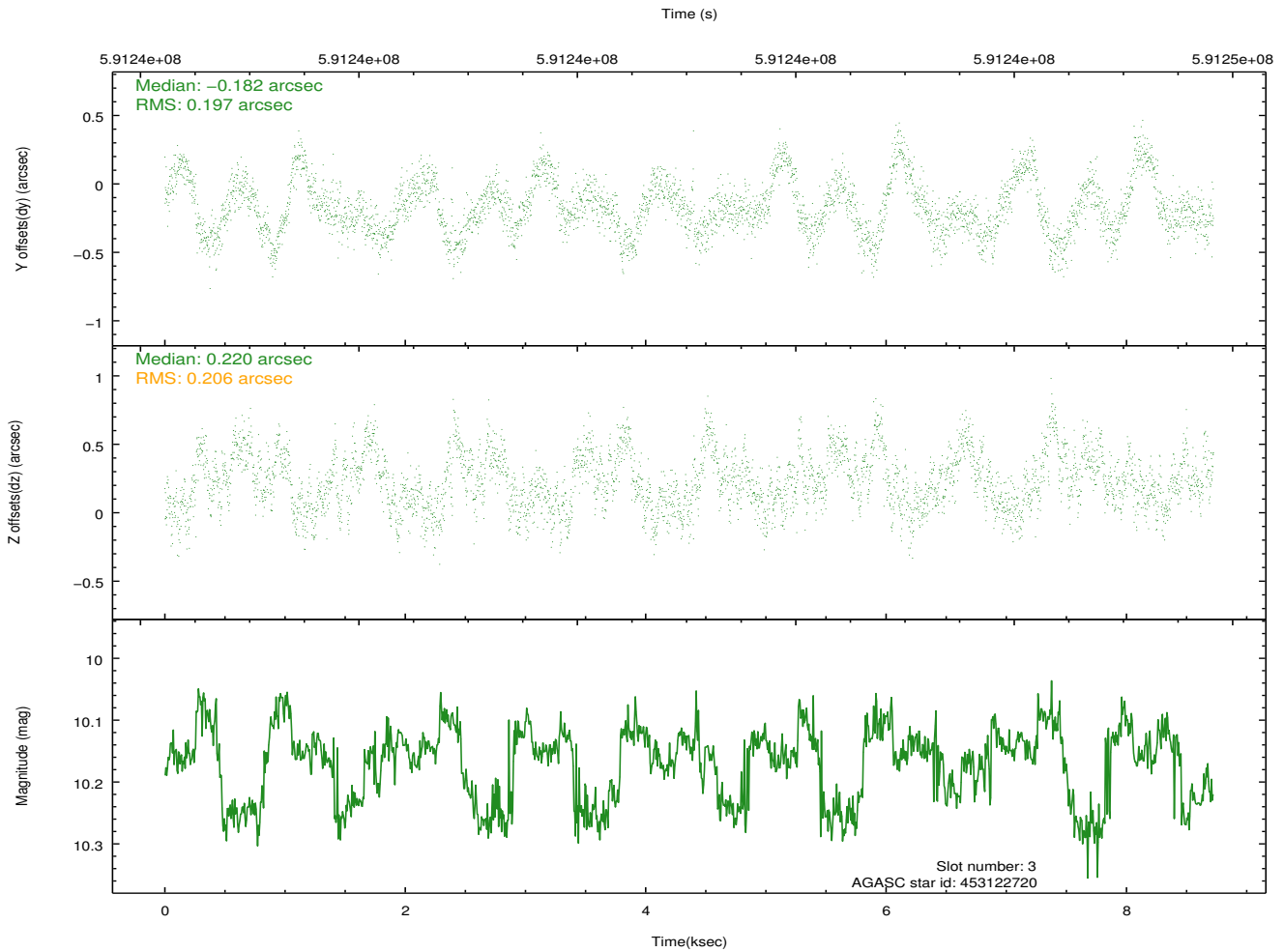
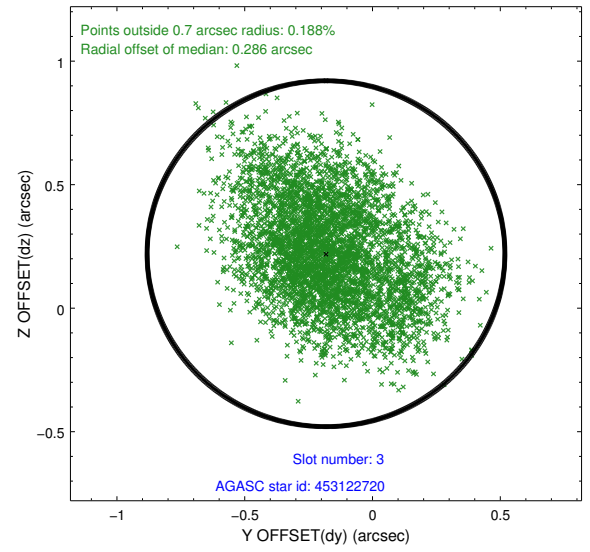
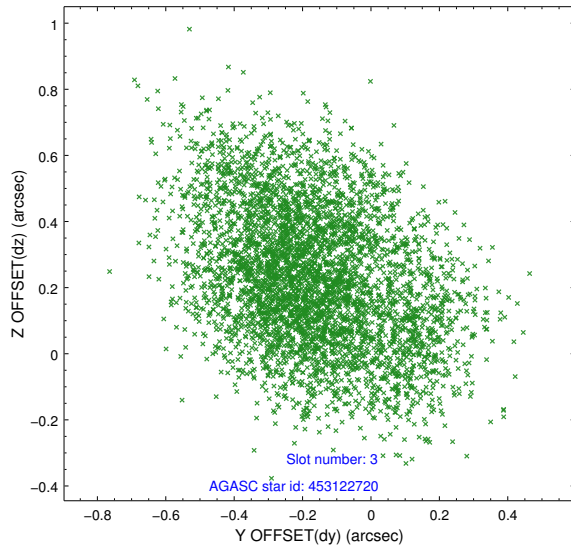


Slot Statistics

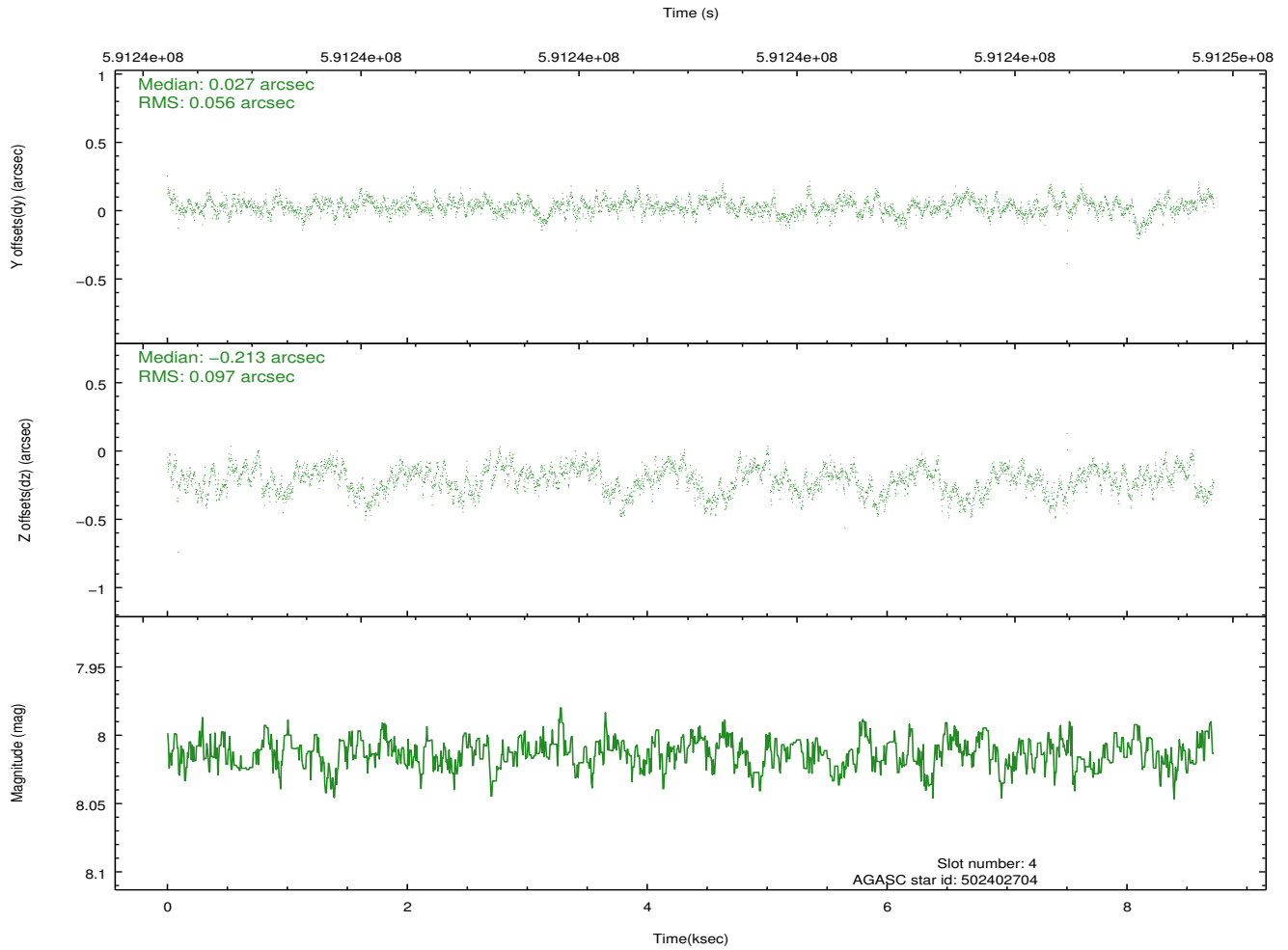
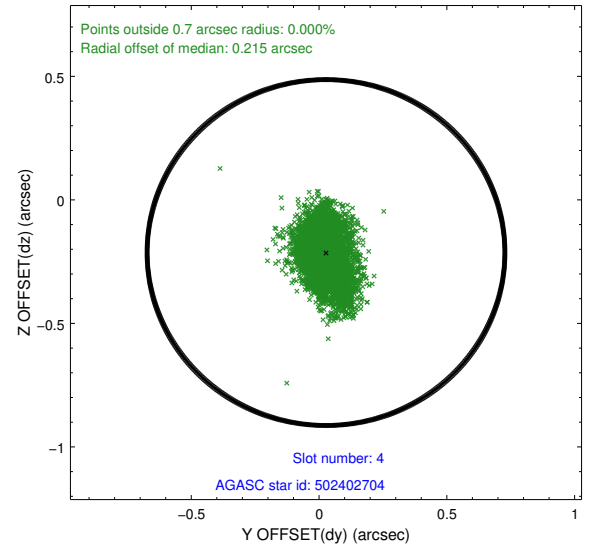
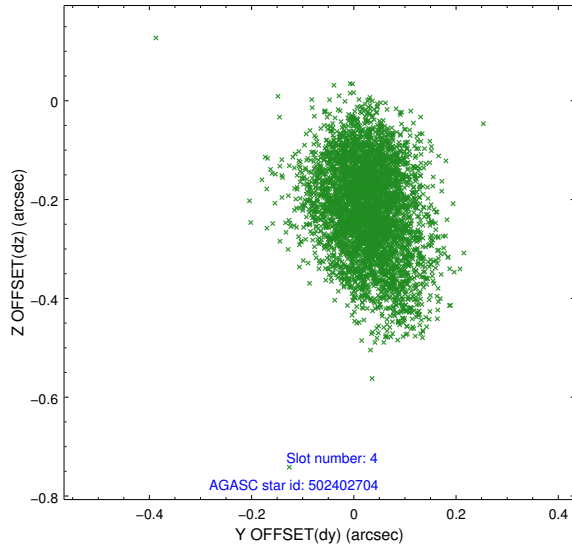
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	2128	-0.207	-0.140	0.011	0.018	0.000000	0.000000	-771.24	-1742.89
1	FID		ACIS-S-4	7.12	2128	0.498	0.137	0.009	0.016	0.000000	0.000000	2142.43	165.24
2	FID		ACIS-S-5	7.12	2128	-0.322	0.011	0.011	0.016	0.000000	0.000000	-1823.41	159.46
3	GUIDE	used	453122720	10.16	4246	-0.182	0.220	0.309	0.484	182.057442	52.323483	379.80	-2101.99
4	GUIDE	used	502402704	8.01	4255	0.027	-0.213	0.118	0.197	181.438982	53.483713	-868.57	2103.13
5	GUIDE	used	502531816	9.39	4249	0.190	0.343	0.192	0.305	182.338444	52.570567	1010.92	-1224.36
6	GUIDE	used	502532712	7.71	4256	-0.112	-0.216	0.109	0.169	182.335797	53.394501	1049.68	1740.62
7	GUIDE	used	502534040	9.60	4249	0.069	-0.147	0.214	0.335	182.904437	53.343220	2267.59	1546.03

2.4 Star Slots

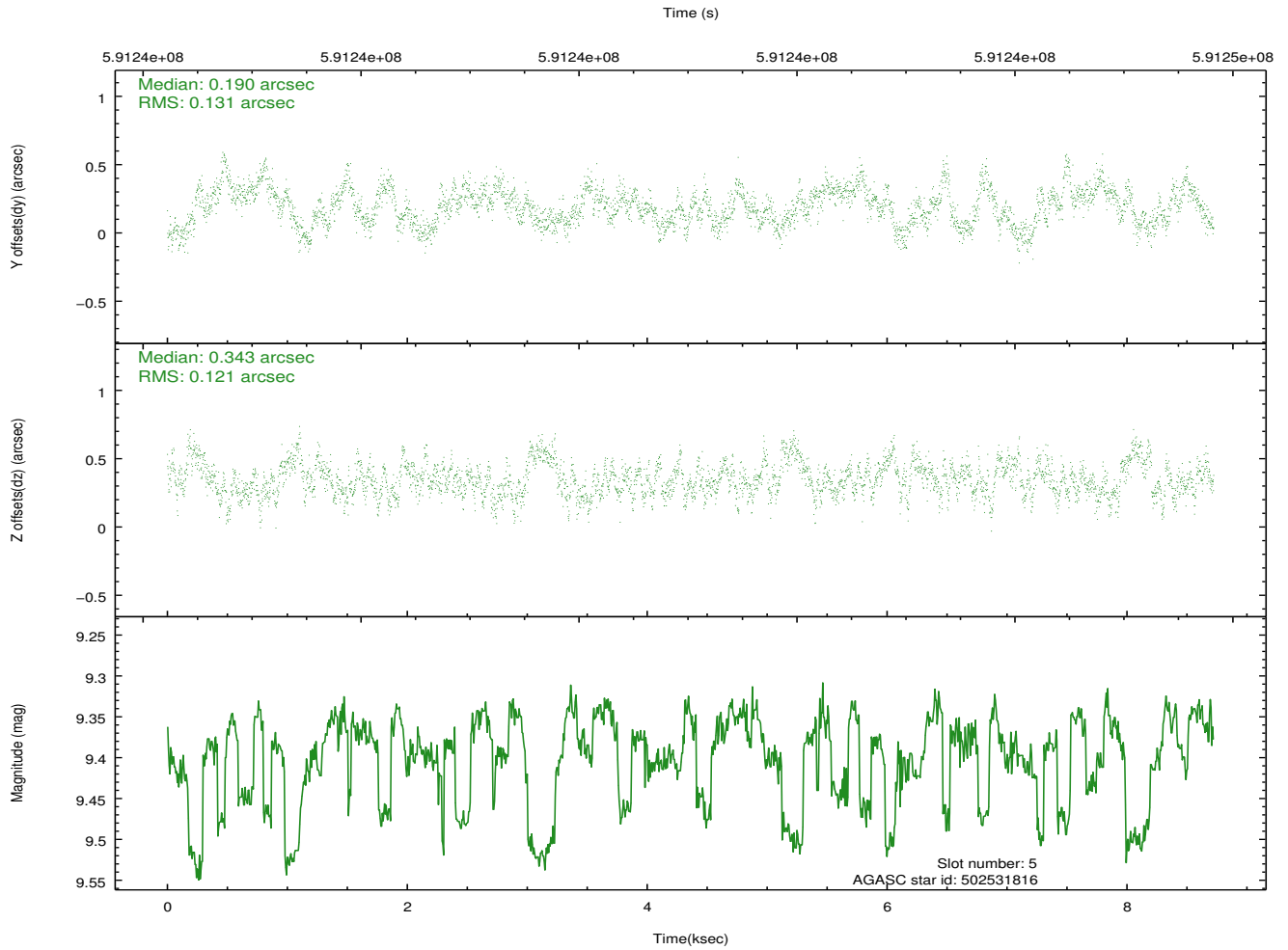
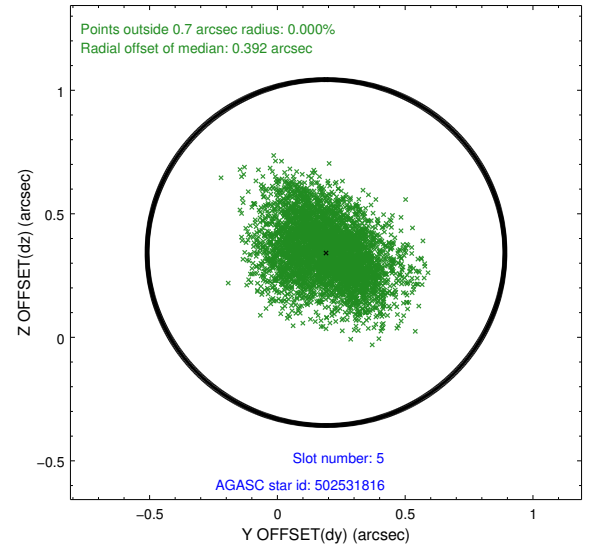
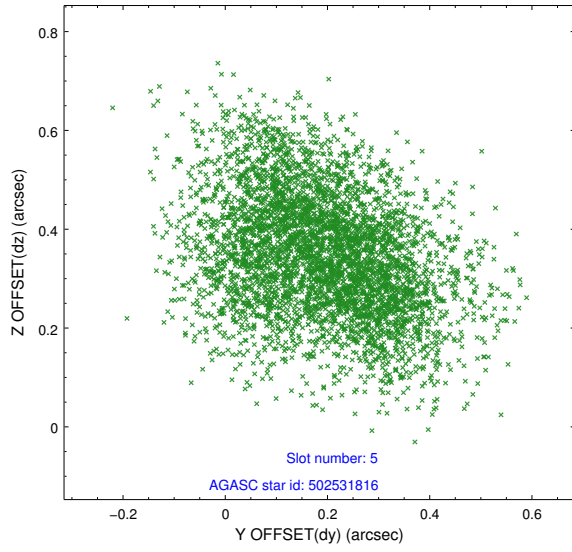
2.4.1 Slot 3



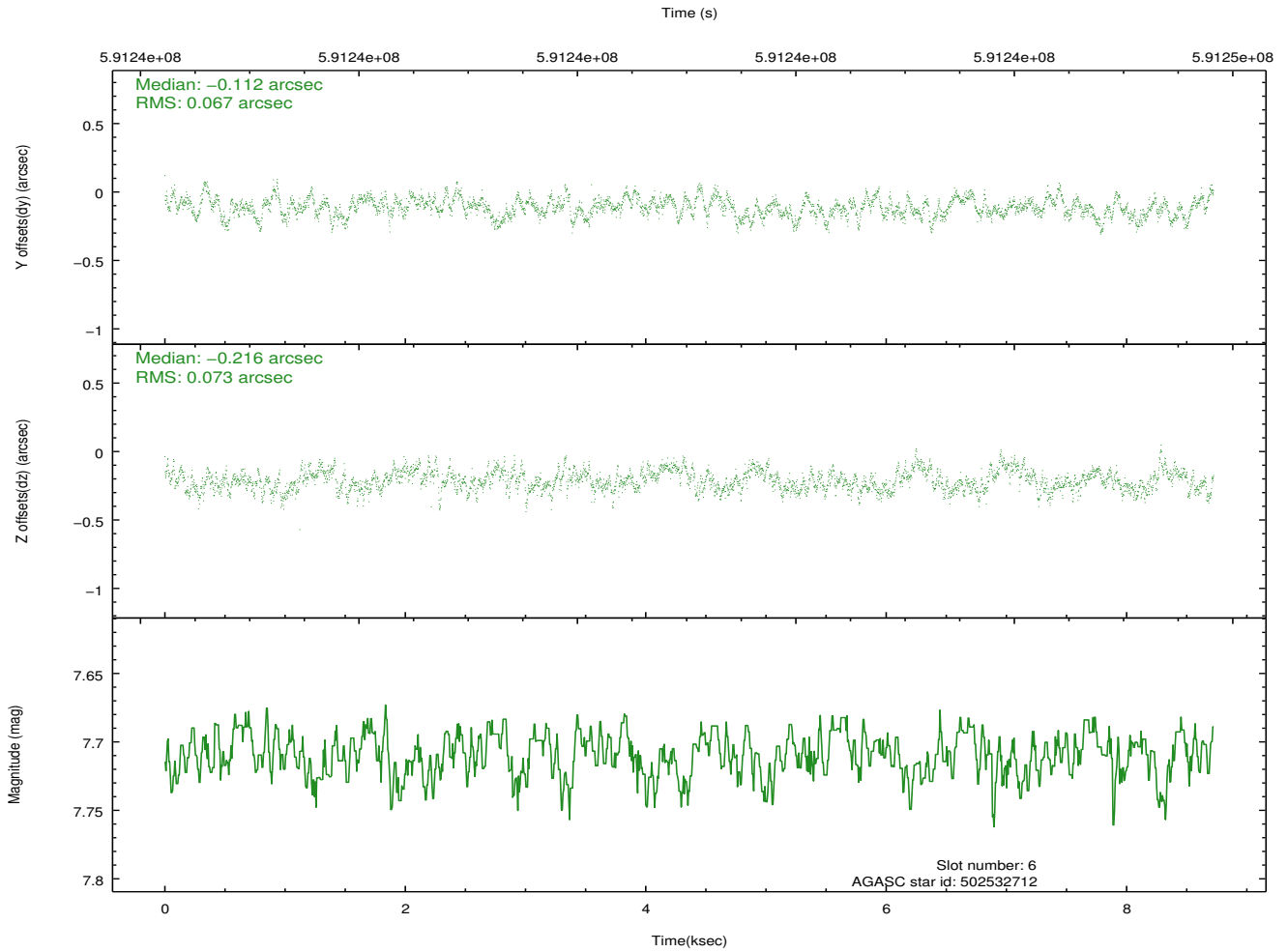
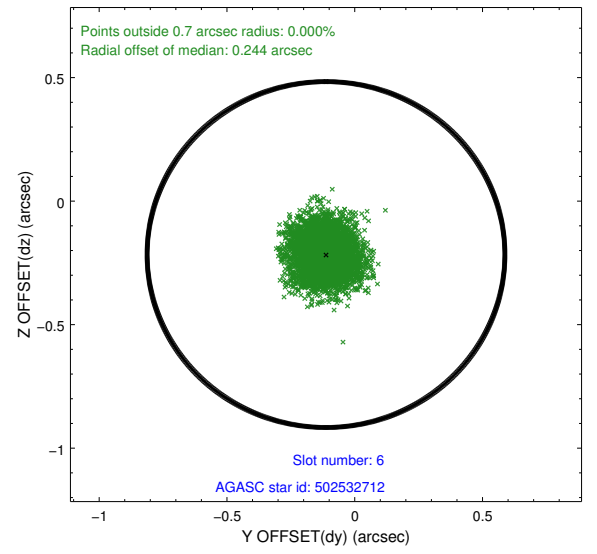
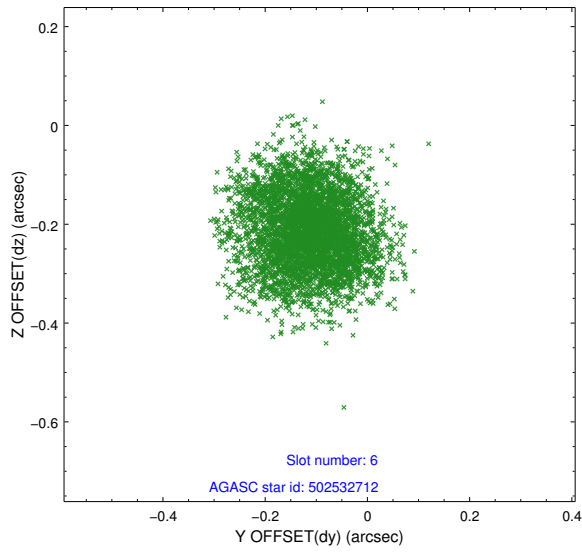
2.4.2 Slot 4



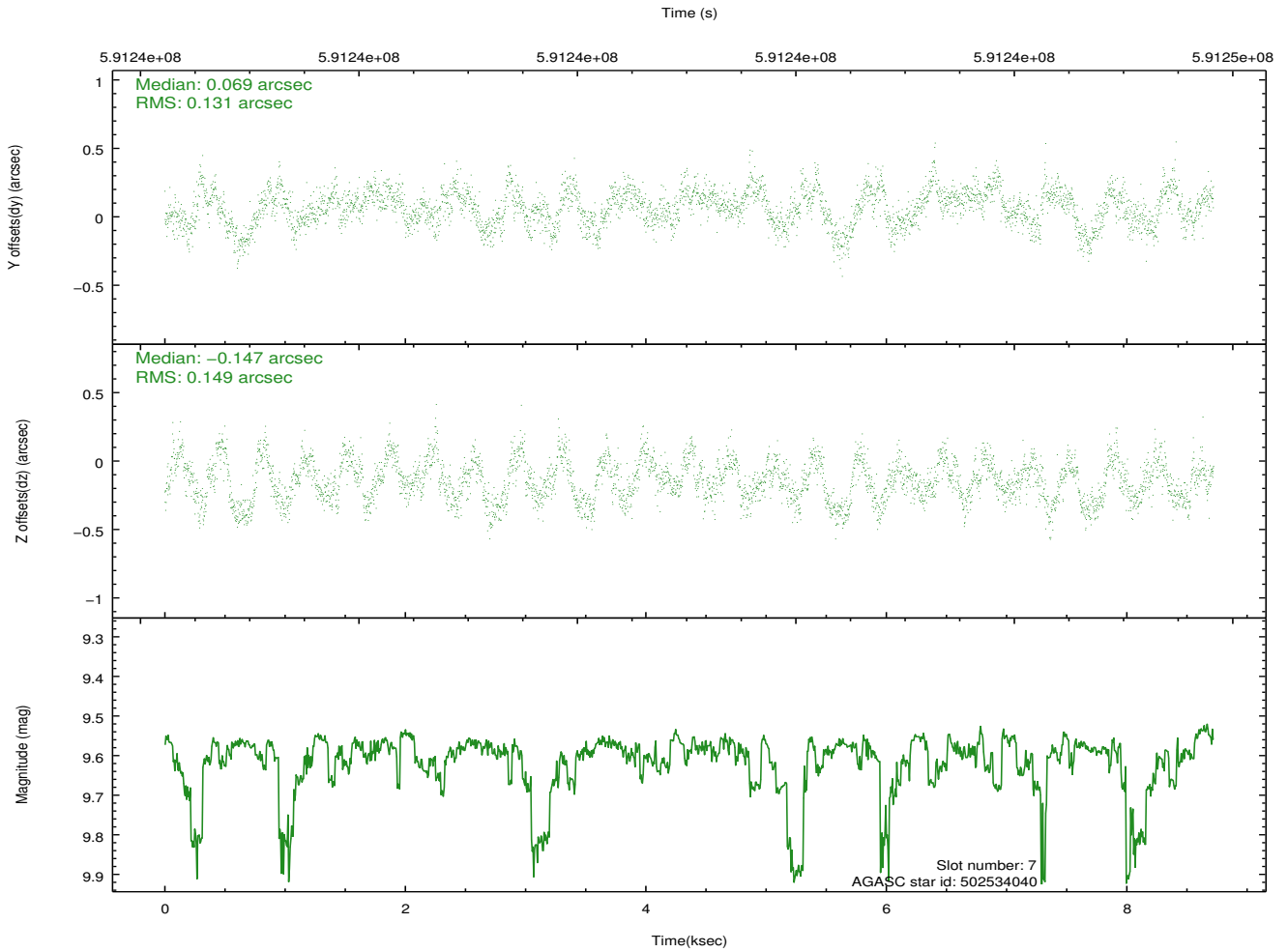
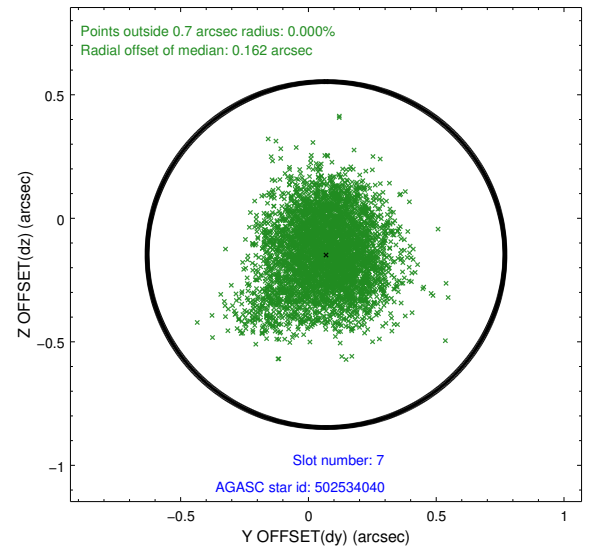
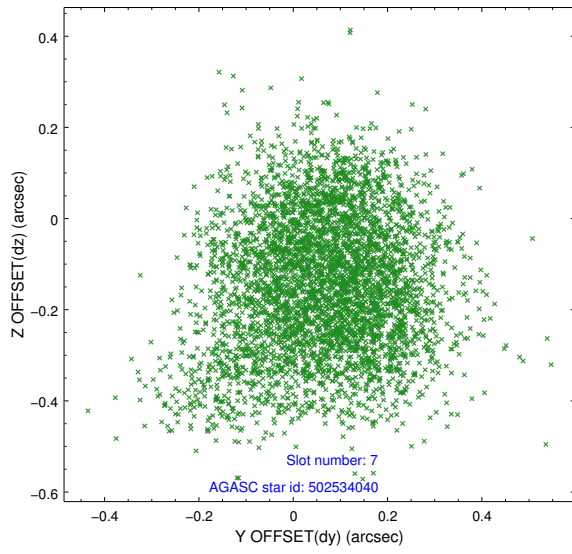
2.4.3 Slot 5



2.4.4 Slot 6

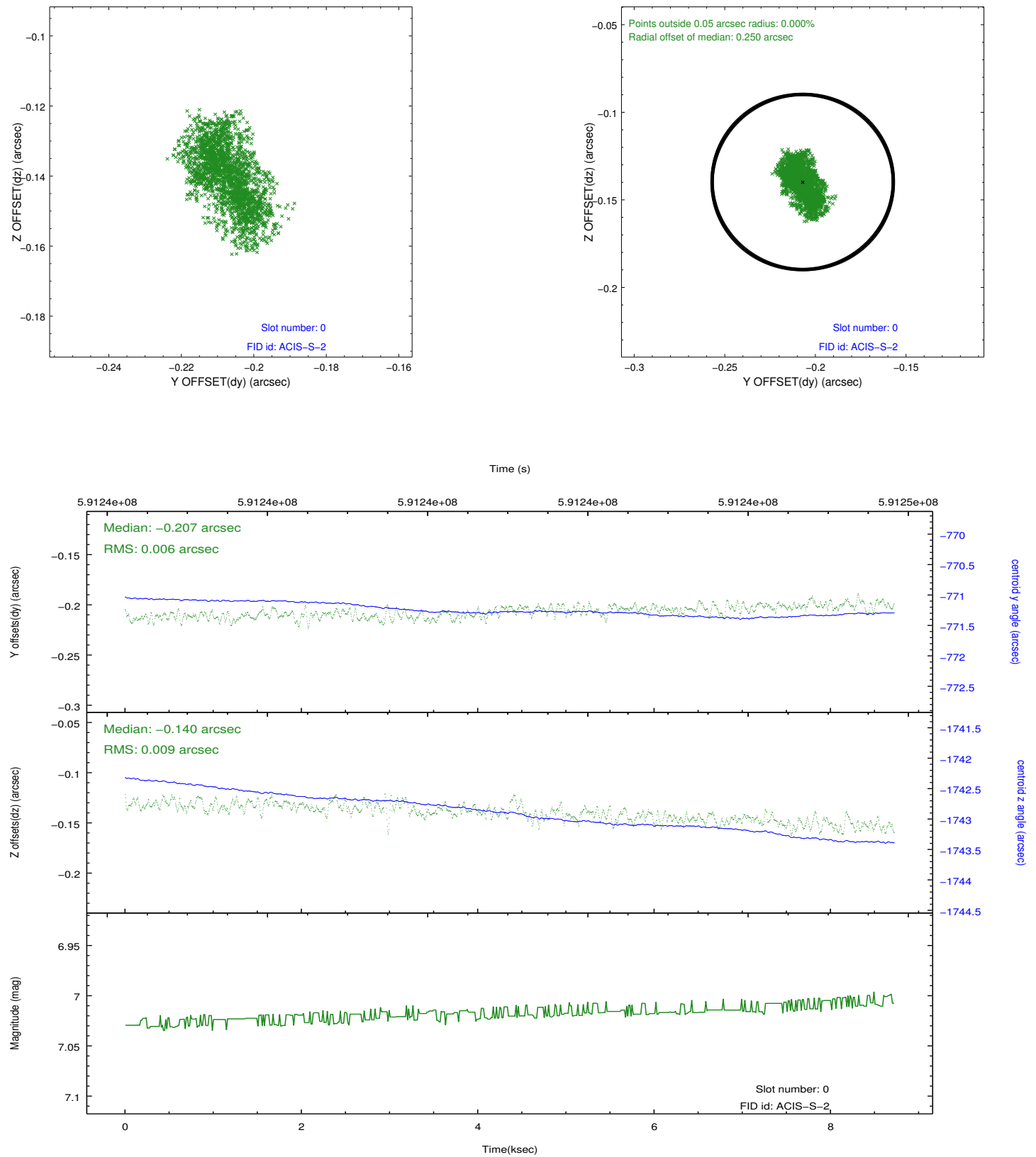


2.4.5 Slot 7

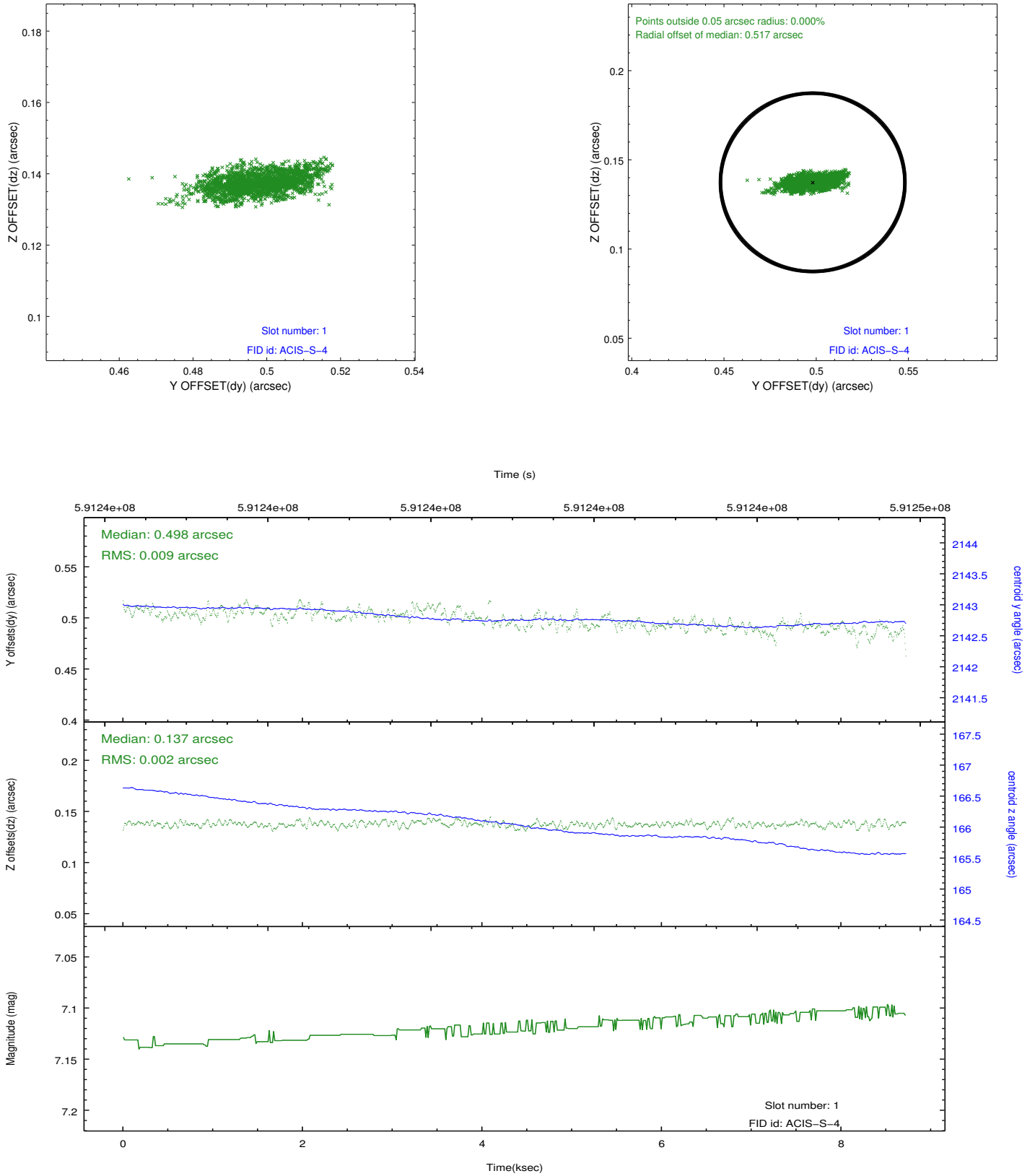


2.5 FID Slots

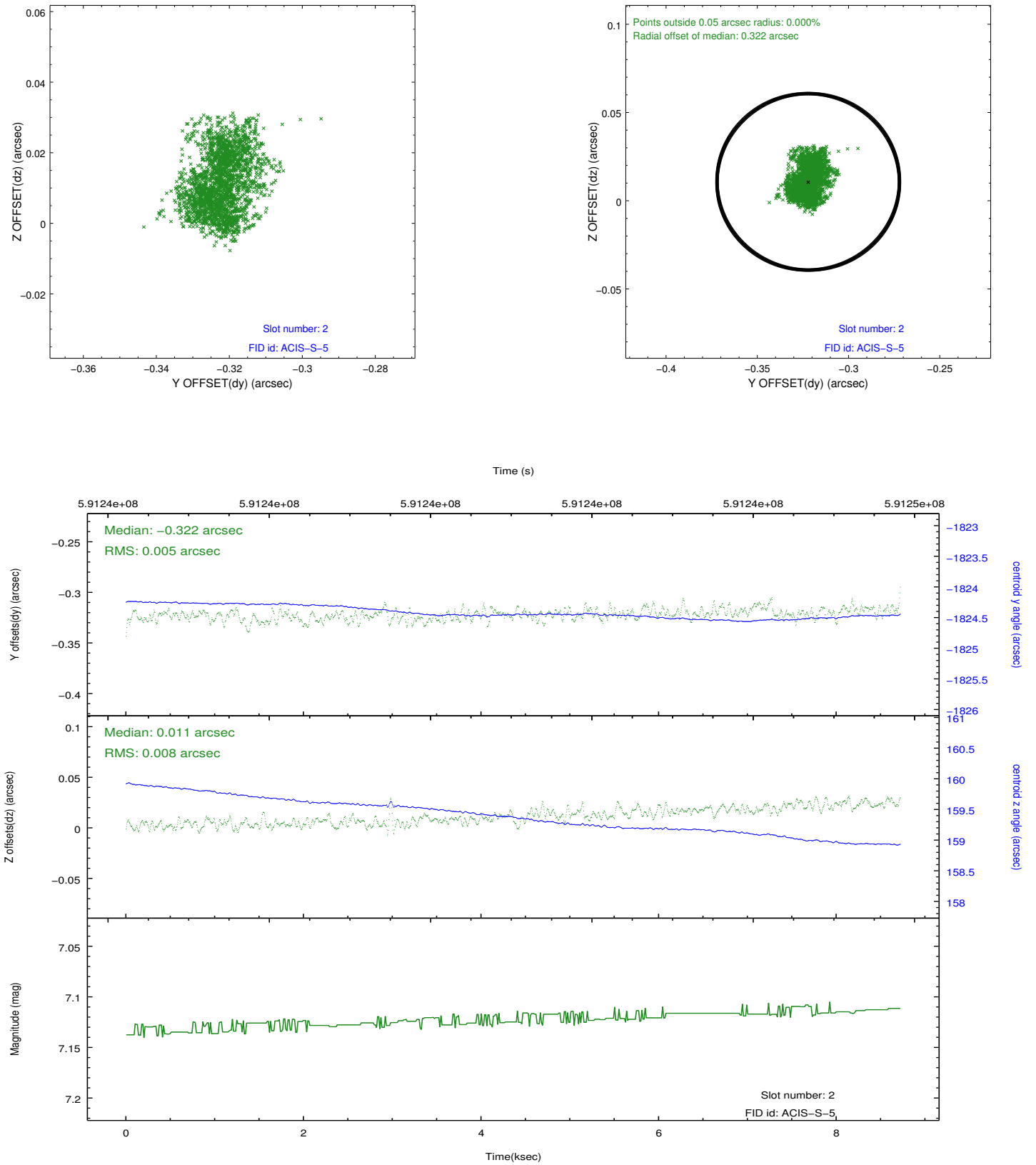
2.5.1 Slot 0



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)	2016.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0476000620127

A.2 Comments

Joint proposal with HST.