

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21298 - L2 Version 1
Chandra X-Ray Center

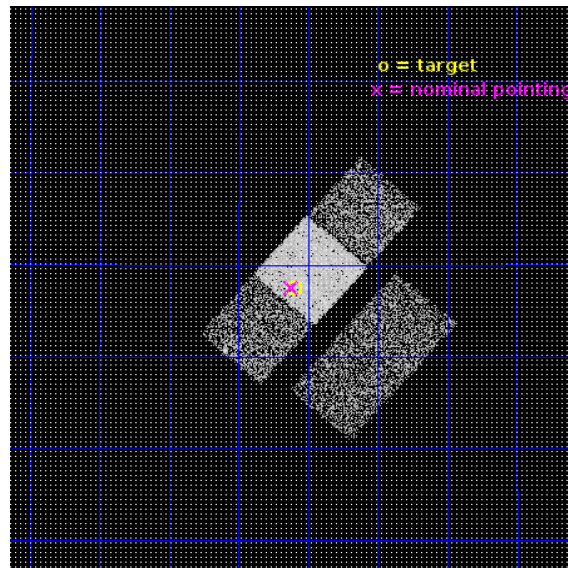
L2 Processing Date : Dec 9 2018

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1 Front

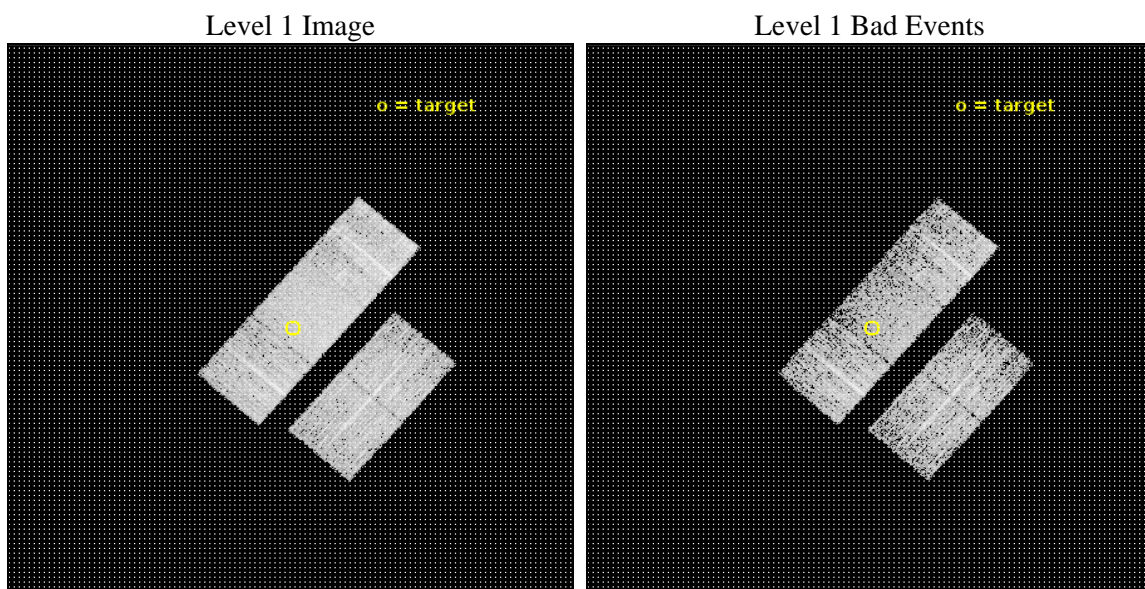
seq_num	503071	Sequence number
obs_id	21298	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1952+1410	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	298.025417	Observer's specified target RA [deg]
dec_targ	14.124833	Observer's specified target Dec [deg]
ra_nom	298.03021627607	Nominal RA [deg]
dec_nom	14.125392821588	Nominal Dec [deg]
roll_nom	311.06108453873	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3552.4556519985	Sum of GTIs [s]
livetime	3506.0402036254	Livetime [s]
ontime2	3552.2914919853	Sum of GTIs [s]
ontime3	3552.3735719919	Sum of GTIs [s]
ontime6	3552.4146120548	Sum of GTIs [s]
ontime7	3552.4556519985	Sum of GTIs [s]
ontime8	3552.3325320482	Sum of GTIs [s]
l2events	24555	Number of level 2 events



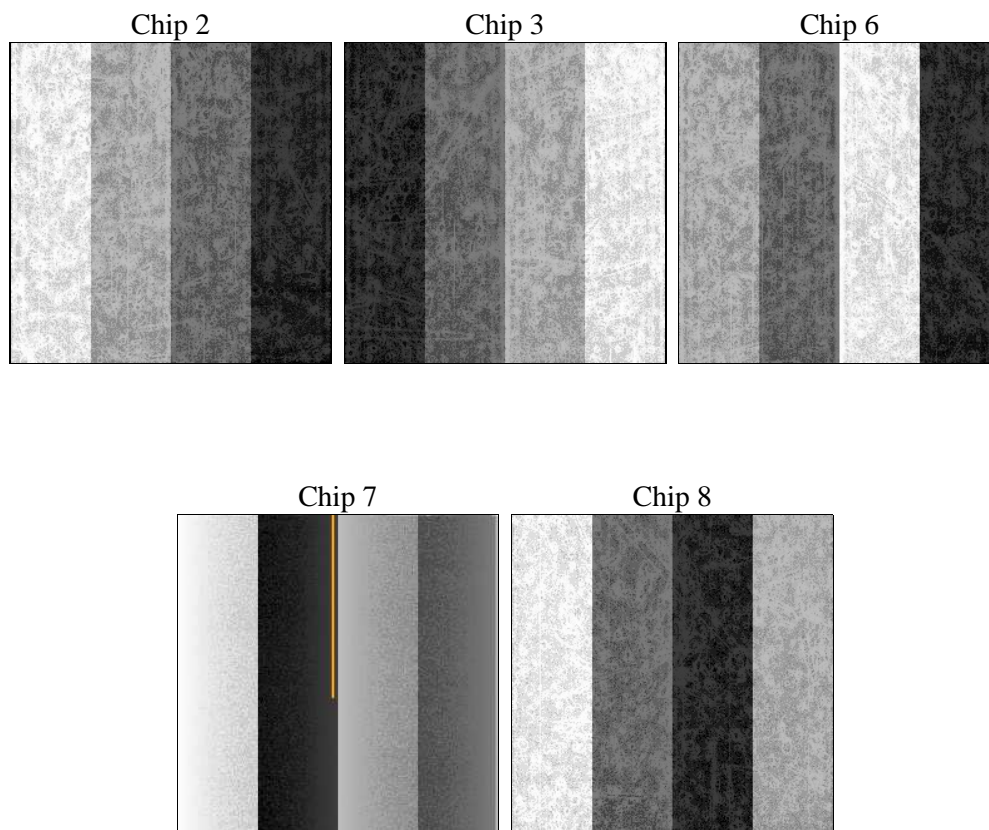
2 OBI

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	Processing system revision	ontime	3552.4556519985	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3552.2914919853	Sum of GTIs [s]
date	2018-12-09T05:39:41	Date and time of file creation	ontime3	3552.3735719919	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3552.4146120548	Sum of GTIs [s]
			ontime7	3552.4556519985	Sum of GTIs [s]
			ontime8	3552.3325320482	Sum of GTIs [s]
			l1events	151547	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	26195	26635	28521	34857	35339
rejected events	23468	23992	25447	20106	26415
rejected %	89%	90%	89%	57%	74%

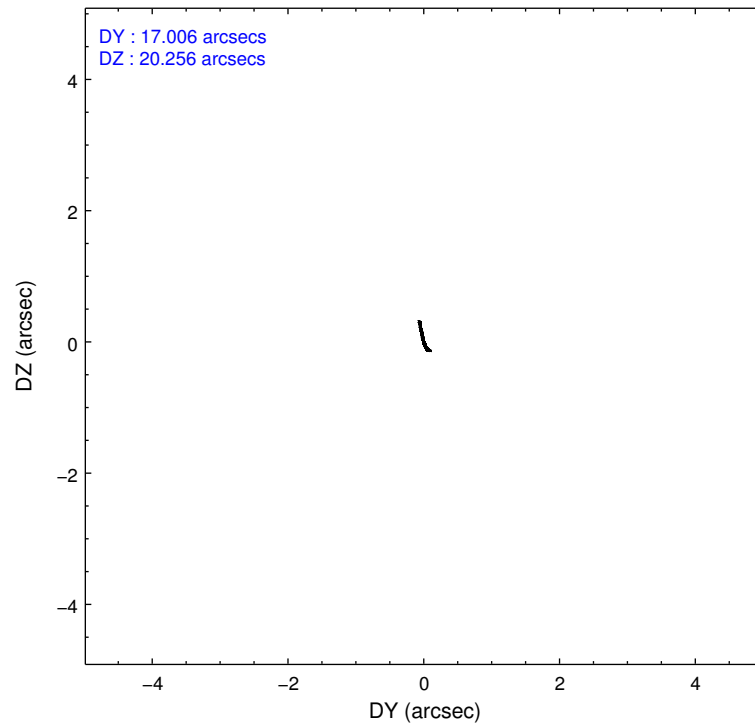
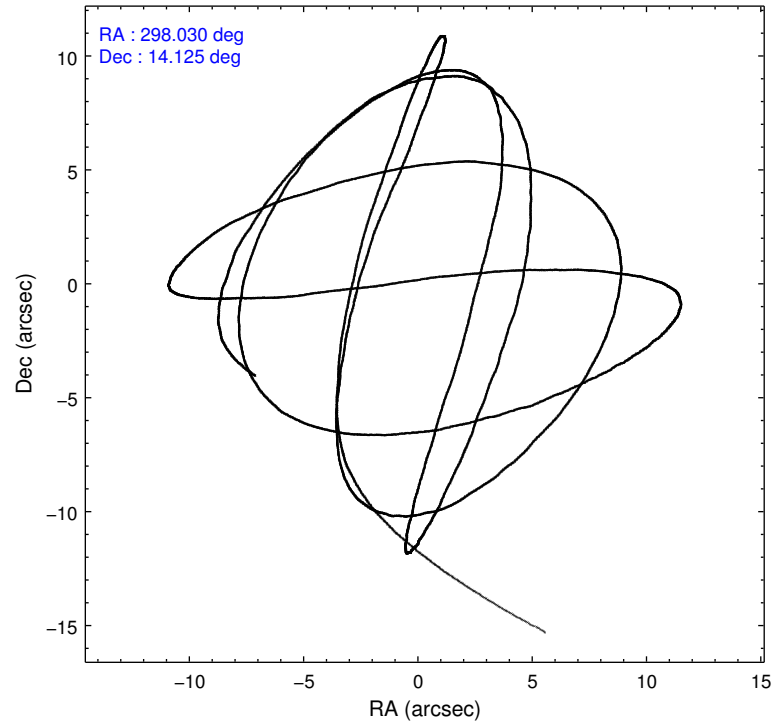
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	963	935	976	1239	2507
	3%	3%	3%	3%	7%
grade 1 events	14	16	16	52	19
	0%	0%	0%	0%	0%
grade 2 events	651	584	779	3107	2143
	2%	2%	2%	8%	6%
grade 3 events	277	282	255	1146	936
	1%	1%	0%	3%	2%
grade 4 events	311	261	257	1145	832
	1%	0%	0%	3%	2%
grade 5 events	1069	1177	1129	3354	1866
	4%	4%	3%	9%	5%
grade 6 events	526	582	810	8131	2507
	2%	2%	2%	23%	7%
grade 7 events	22384	22798	24299	16683	24529
	85%	85%	85%	47%	69%

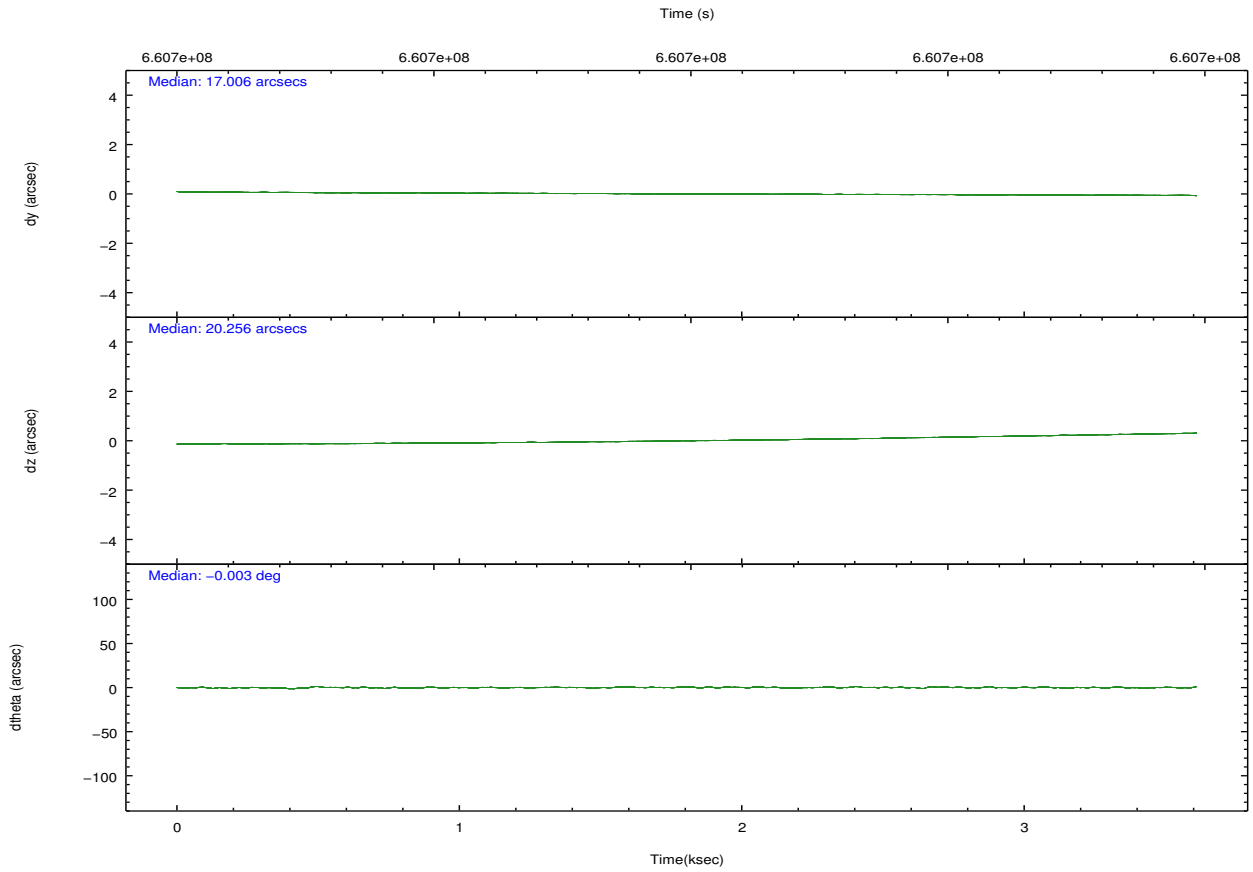
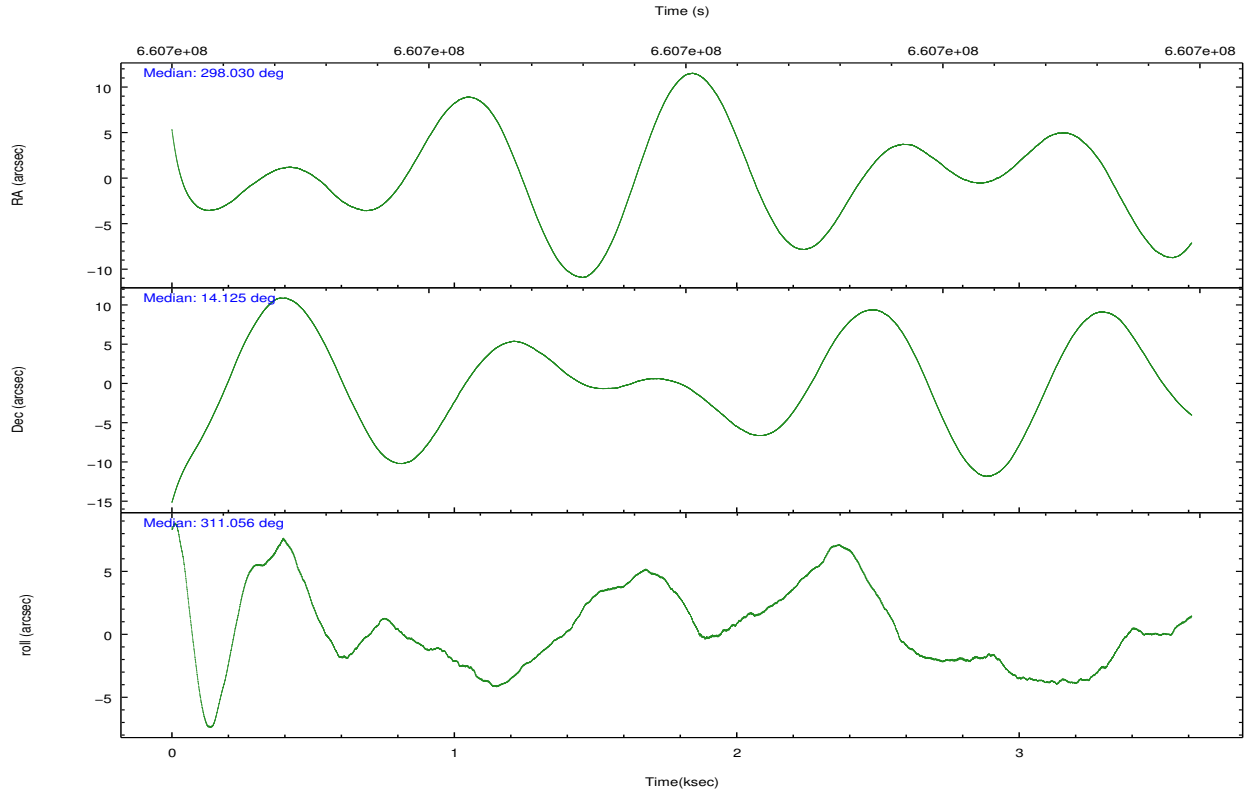
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	298.003441	298.0302162760675
[deg] Pointing Dec	14.133887	14.12539282158839
[deg] Pointing Roll	310.910961	311.0610845387251
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	660696271.184000	660694997.53081
Observation start date	2018-12-08T22:43:22	2018-12-08T22:23:17
[s] Observation end time (MET)	660699771.184000	660700803.6436599
Observation end date	2018-12-08T23:41:42	2018-12-09T00:00:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



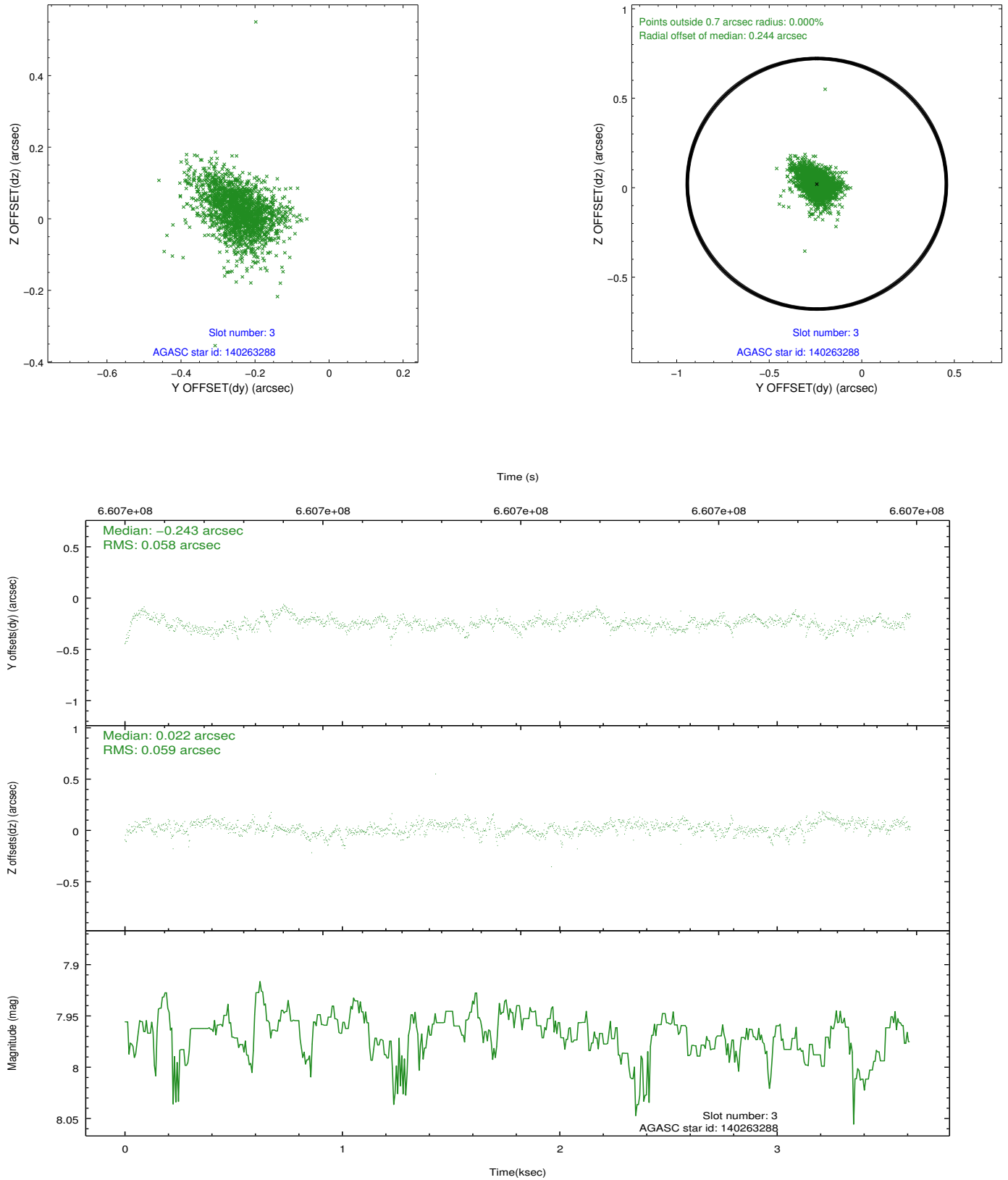


Slot Statistics

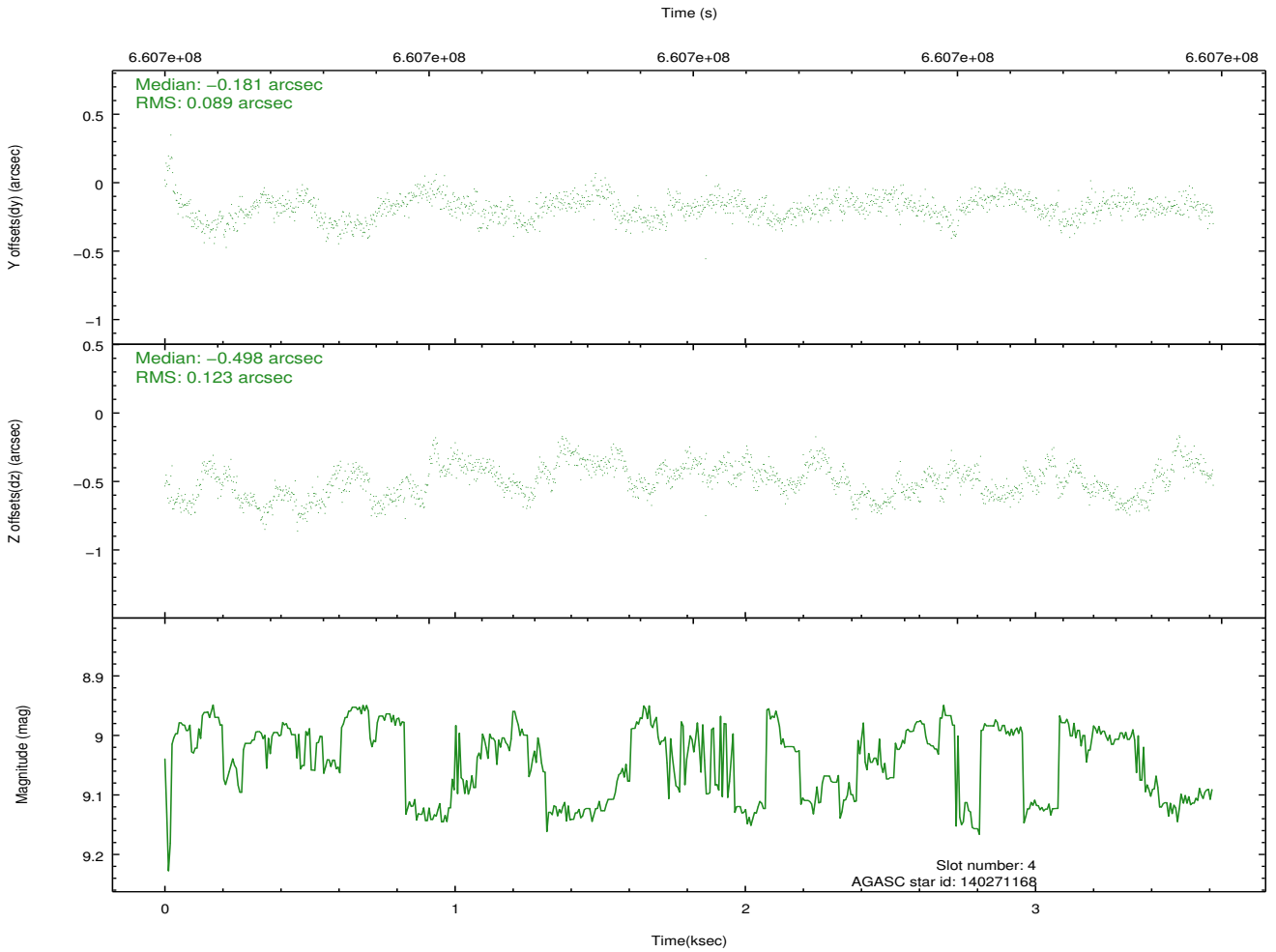
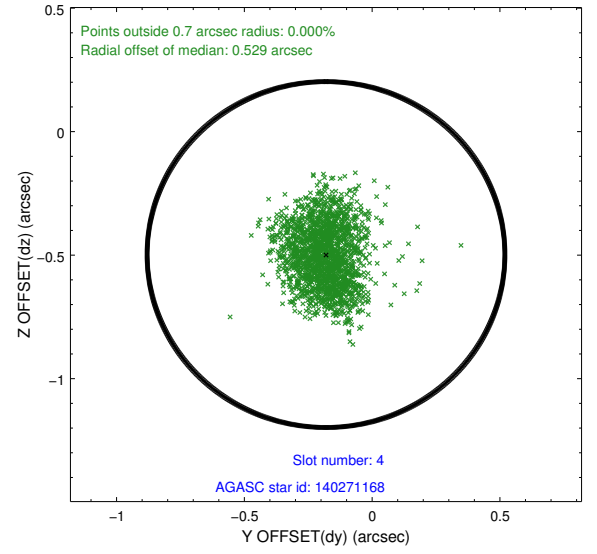
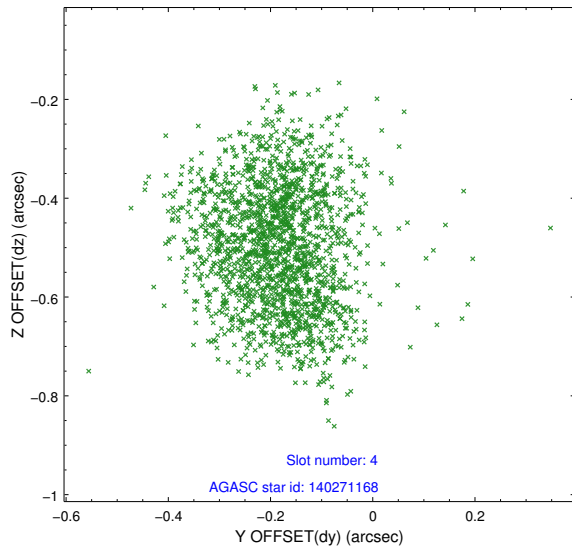
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	881	1.000	-0.521	-0.376	0.007	0.012	0.000000	0.000000	-770.59	-1742
1	FID		ACIS-S-4	7.25	881	1.000	0.538	0.301	0.007	0.010	0.000000	0.000000	2142.98	165
2	FID		ACIS-S-6	7.41	881	1.000	-0.044	0.082	0.008	0.013	0.000000	0.000000	394.15	804
3	GUIDE	used	140263288	7.97	1760	1.000	-0.243	0.022	0.083	0.148	298.074334	14.478776	-775.72	1000
4	GUIDE	used	140271168	9.03	1761	1.000	-0.181	-0.498	0.163	0.250	298.447721	13.981599	1431.54	815
5	GUIDE	used	140272000	8.31	1763	1.000	0.256	0.352	0.090	0.152	297.449928	14.116624	-1217.98	-1498
6	GUIDE	used	140275584	8.36	1763	1.000	0.151	0.129	0.106	0.201	297.572881	13.737570	92.04	-2071
7	GUIDE	used	140249872	8.47	1761	1.000	0.026	-0.006	0.128	0.216	297.693552	13.456295	1133.89	-2416

2.4 Star Slots

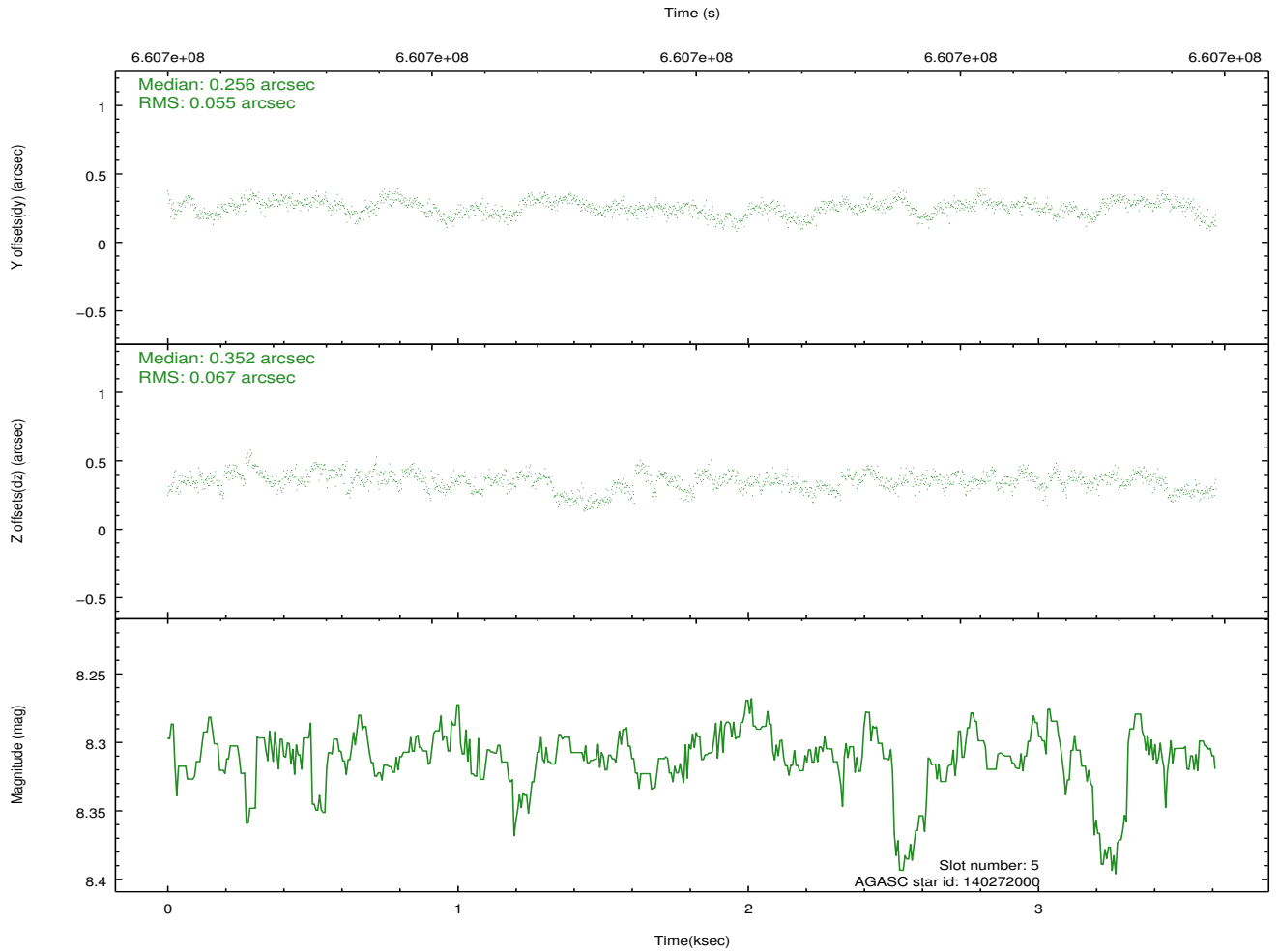
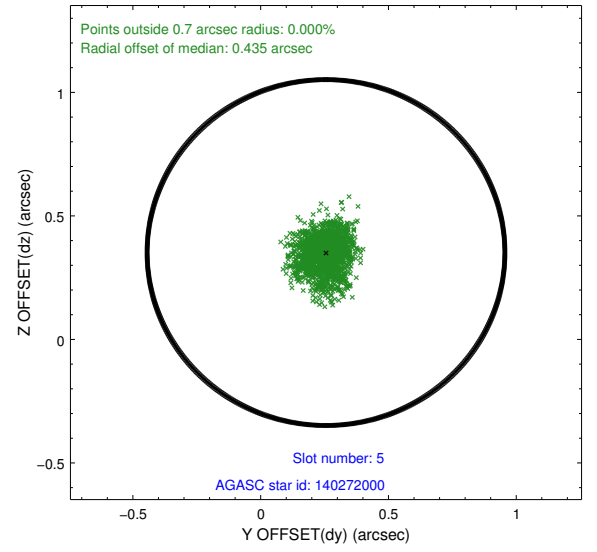
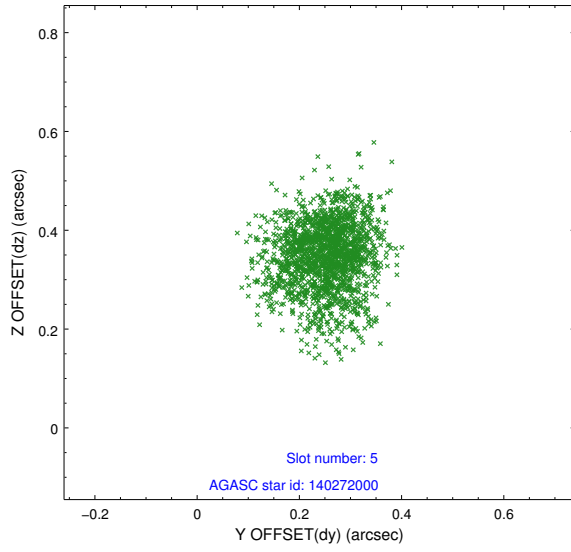
2.4.1 Slot 3



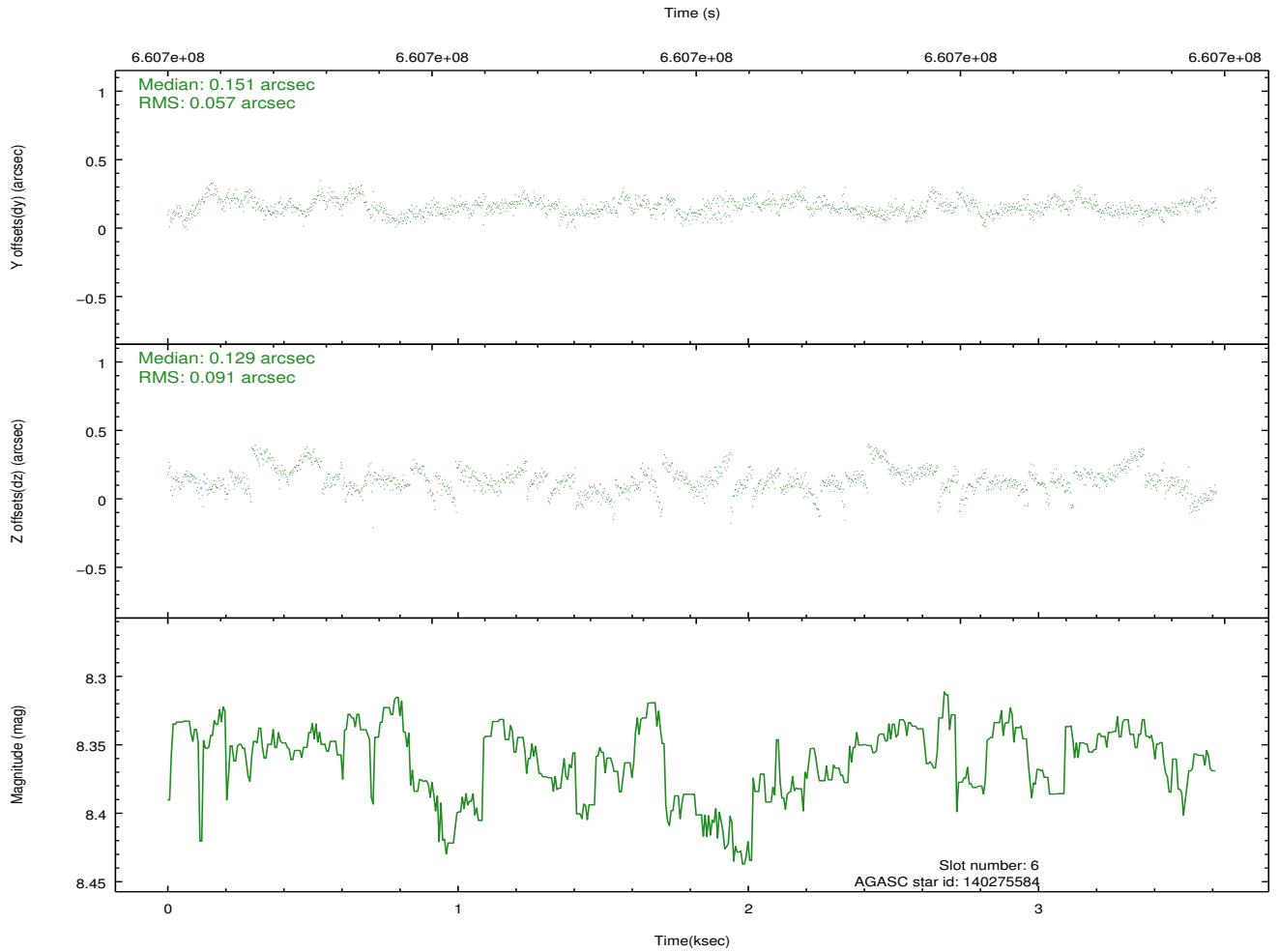
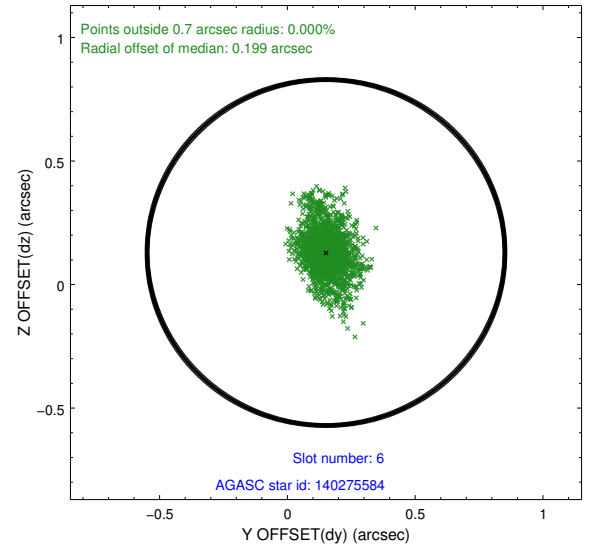
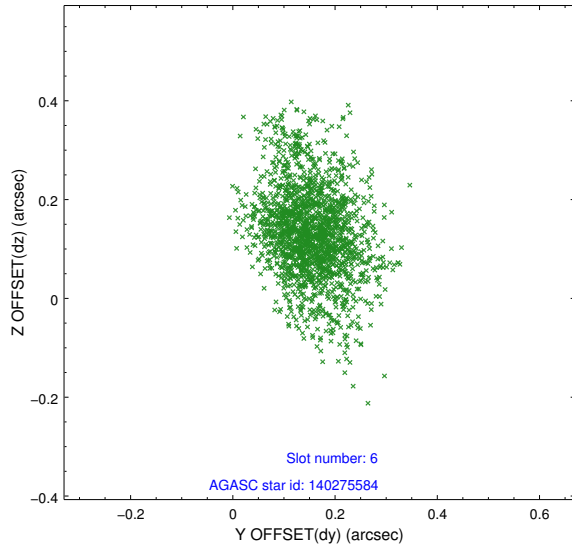
2.4.2 Slot 4



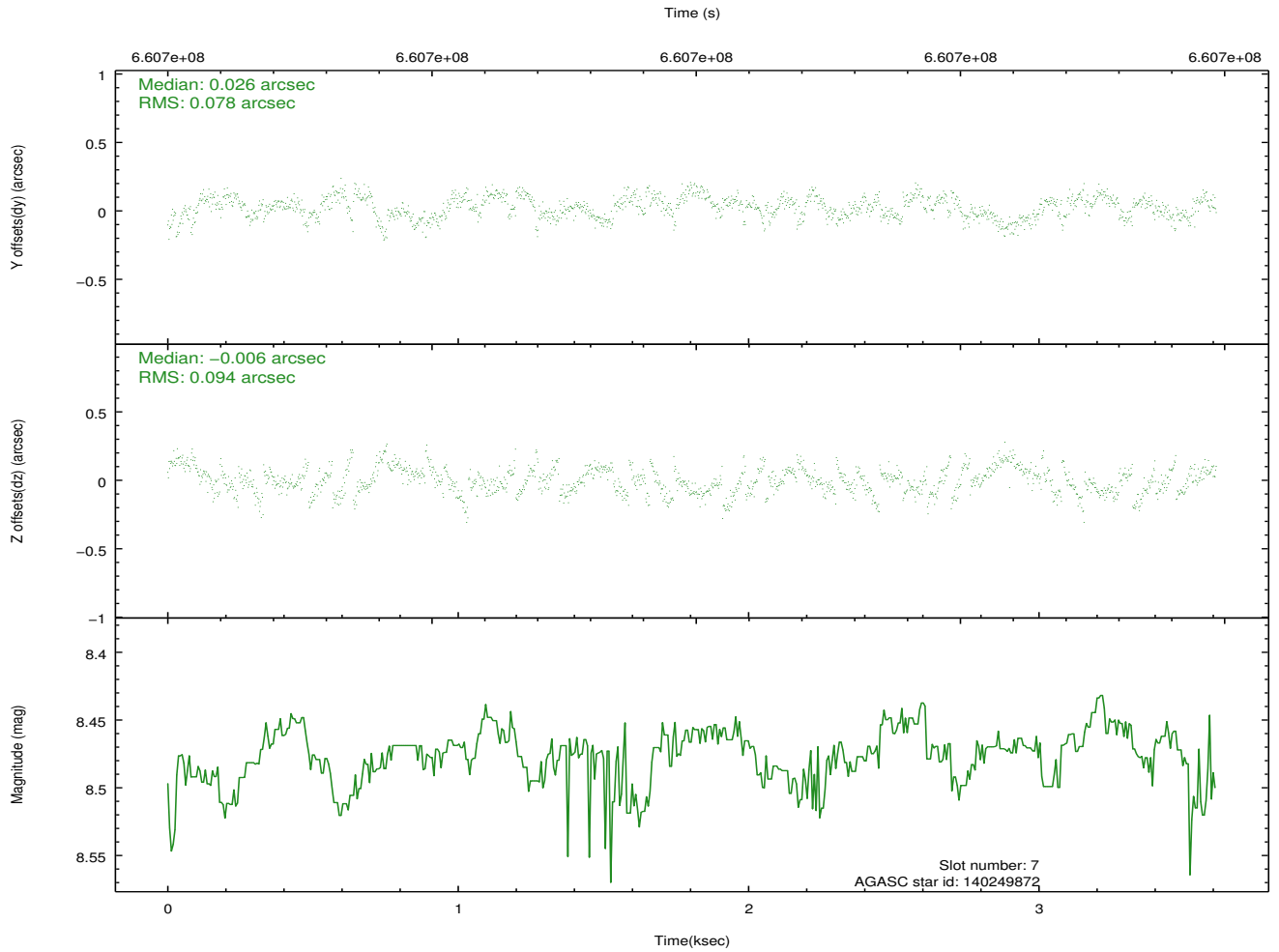
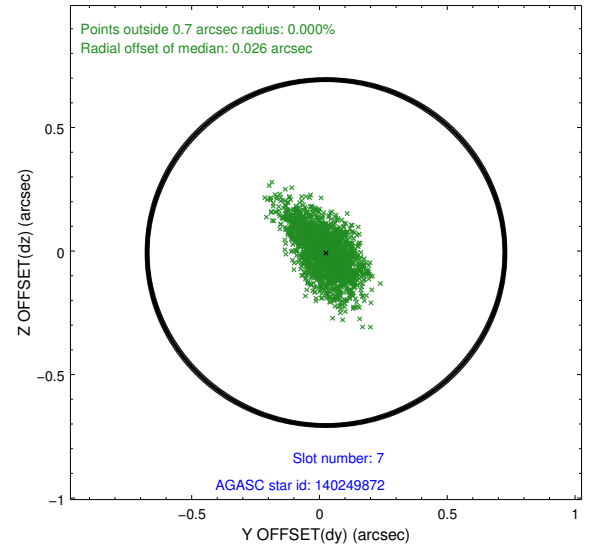
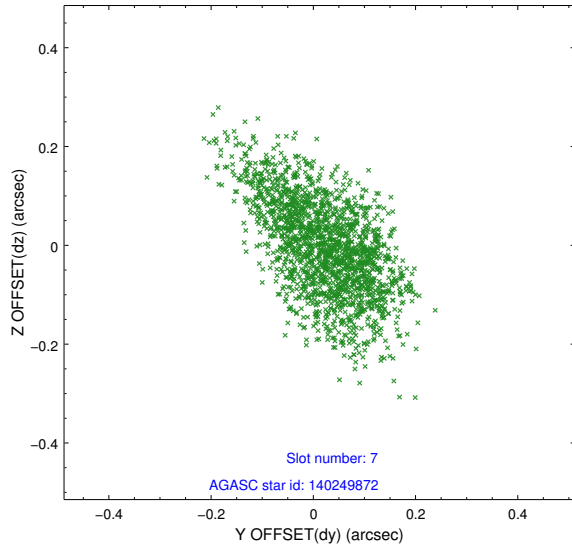
2.4.3 Slot 5



2.4.4 Slot 6

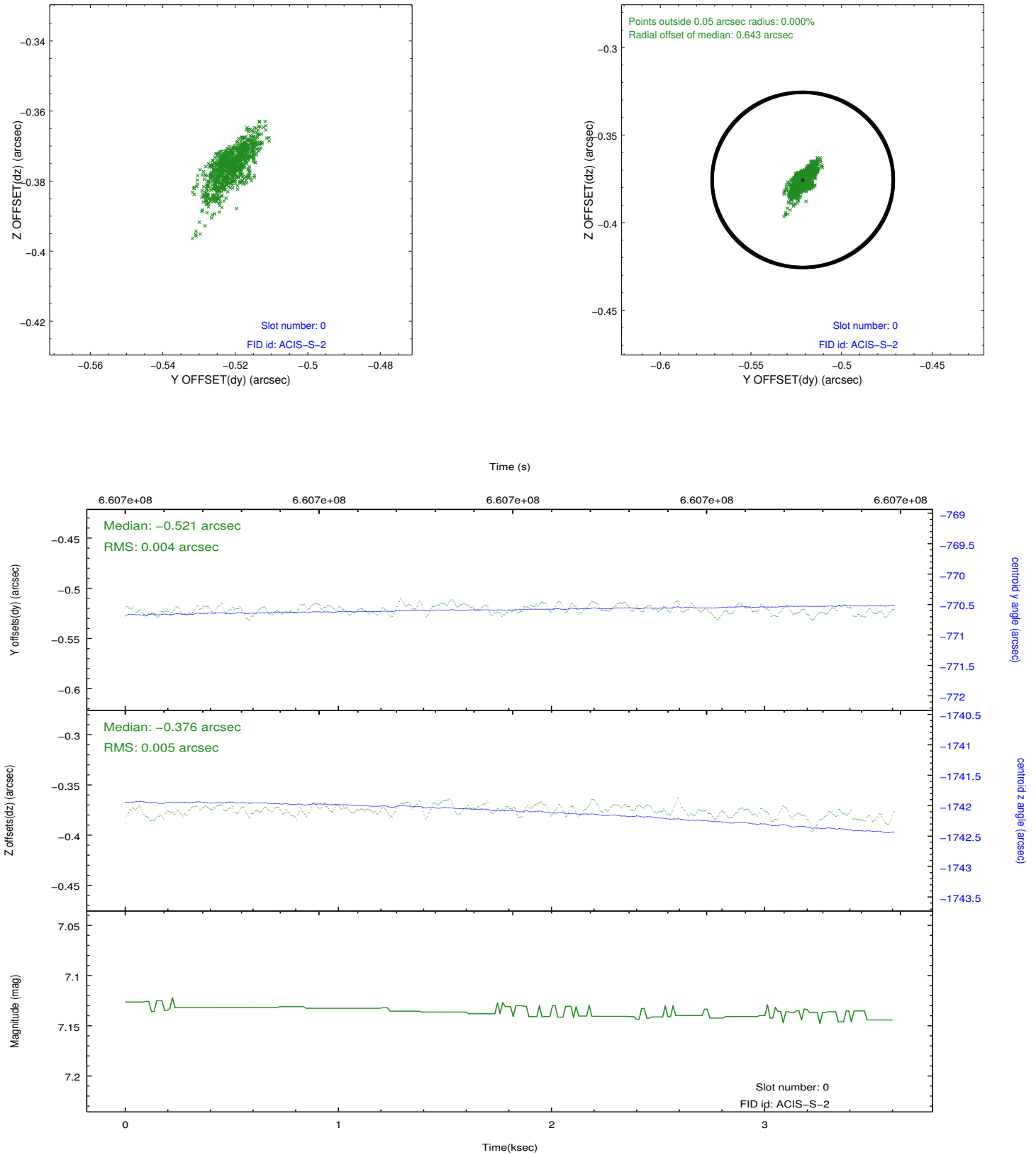


2.4.5 Slot 7

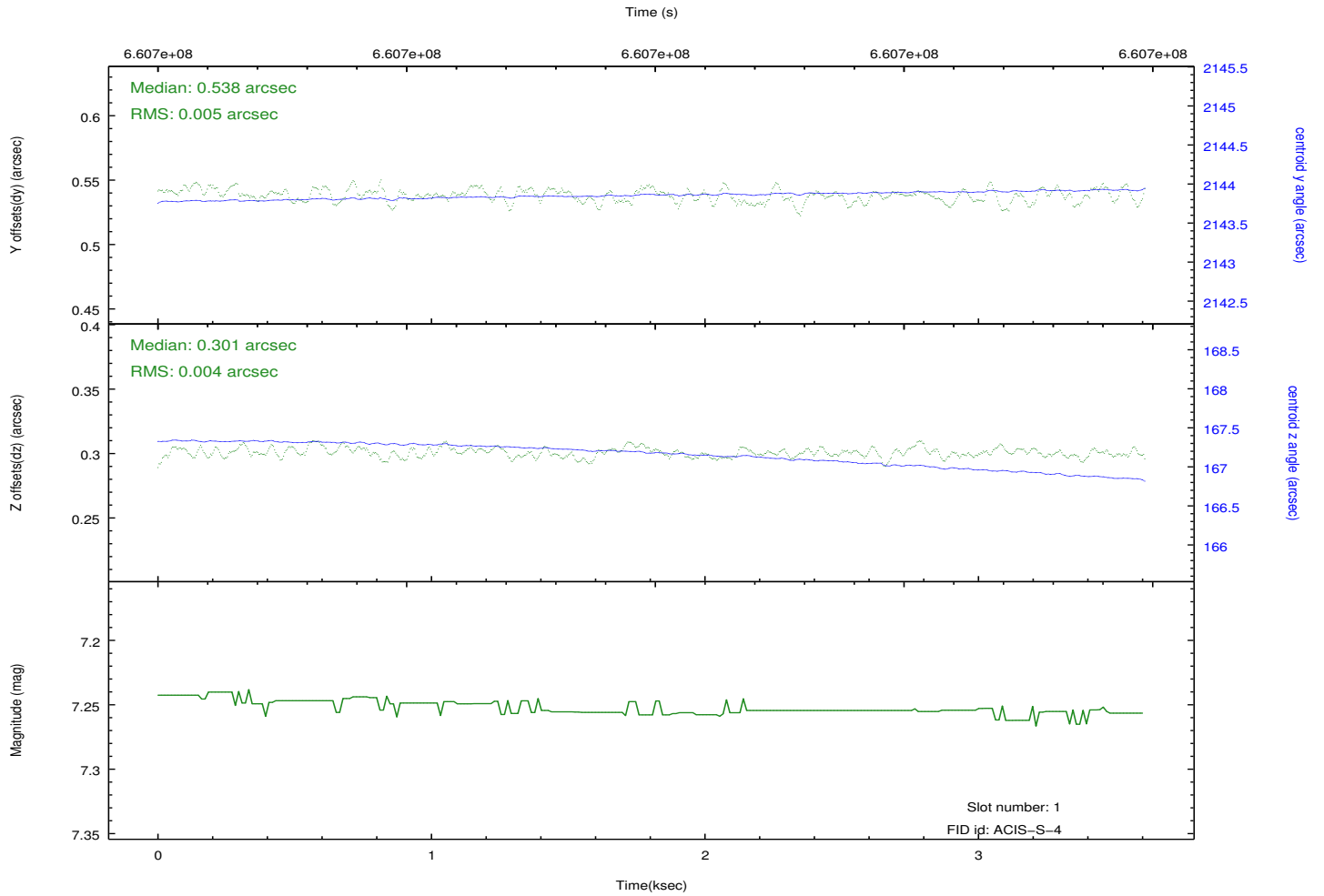
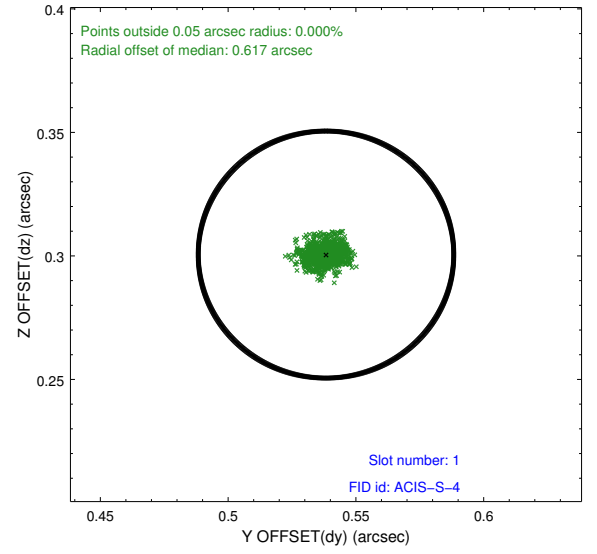
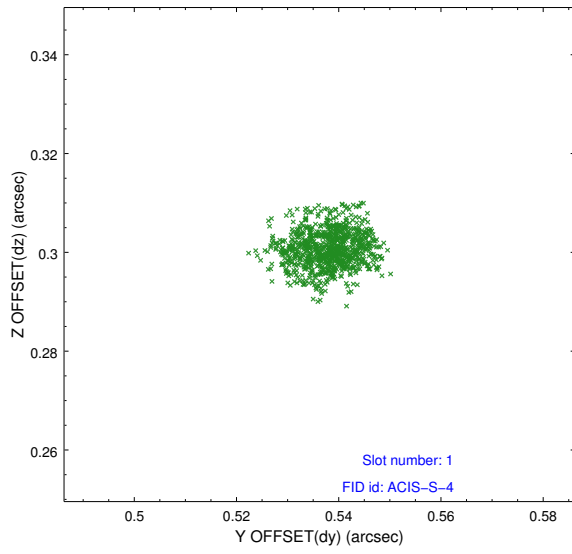


2.5 FID Slots

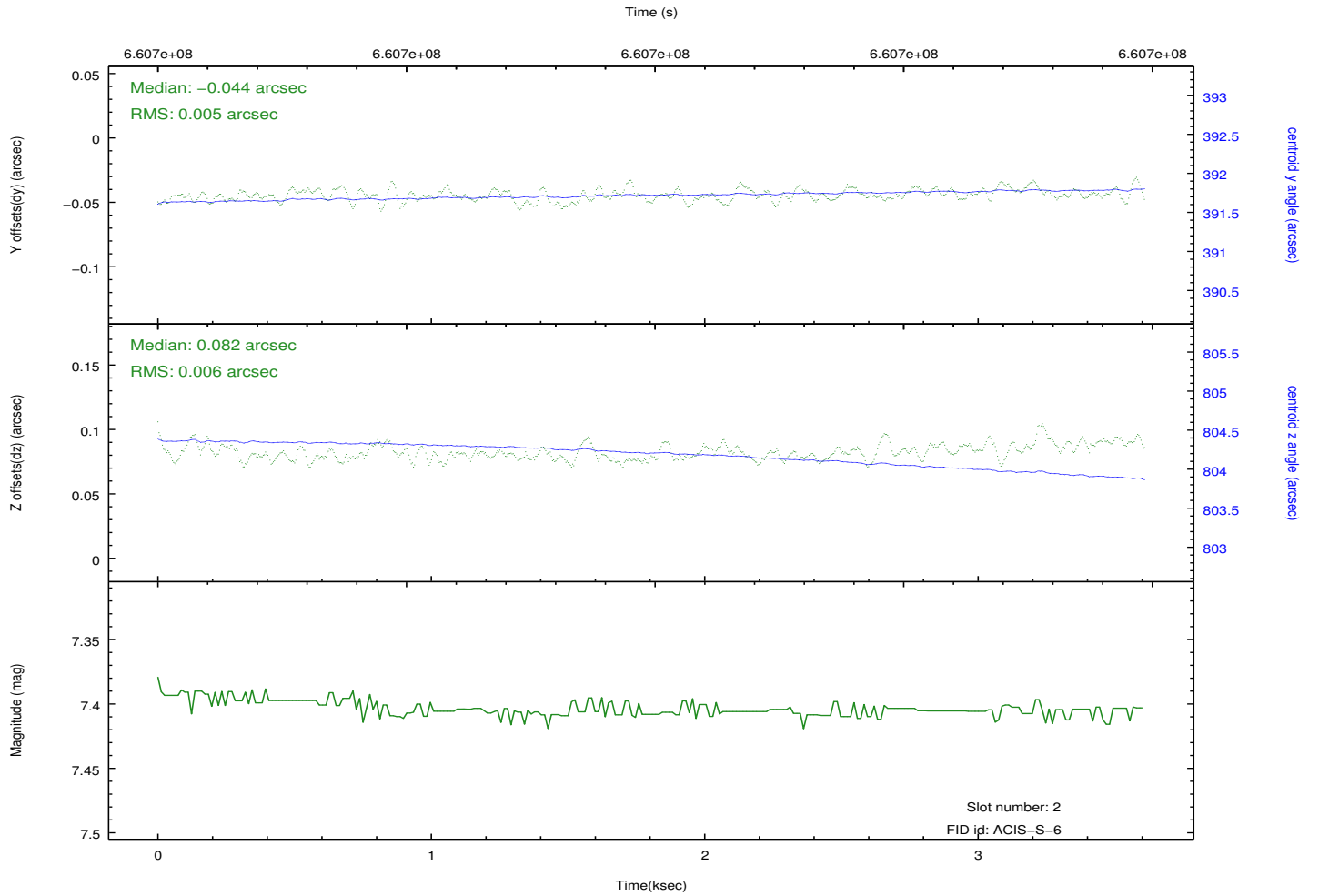
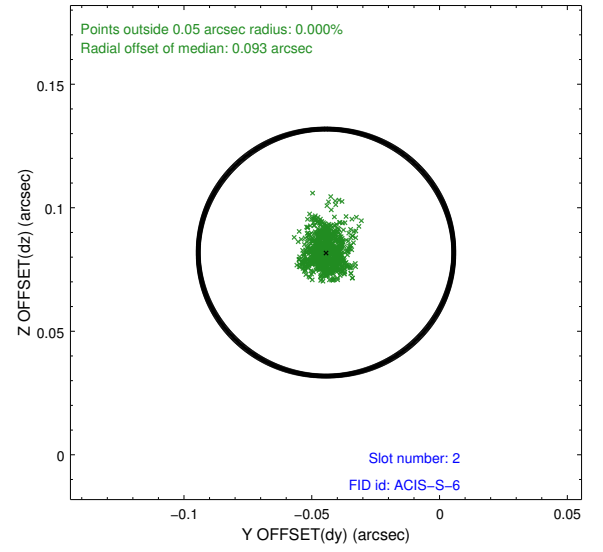
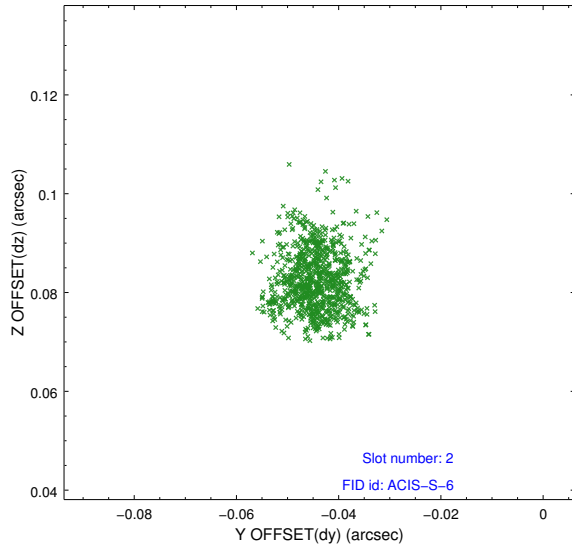
2.5.1 Slot 0



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)	2018.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5524556519985

A.2 Comments