

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21140 - L2 Version 1
Chandra X-Ray Center

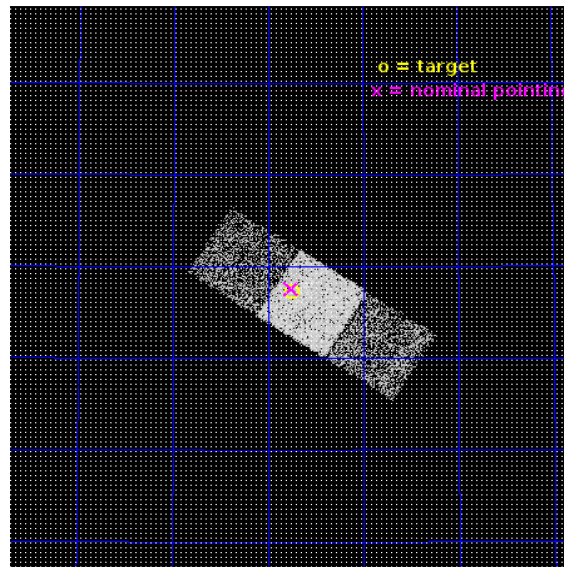
L2 Processing Date : Nov 7 2018

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 5	10
2.4.3	Slot 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

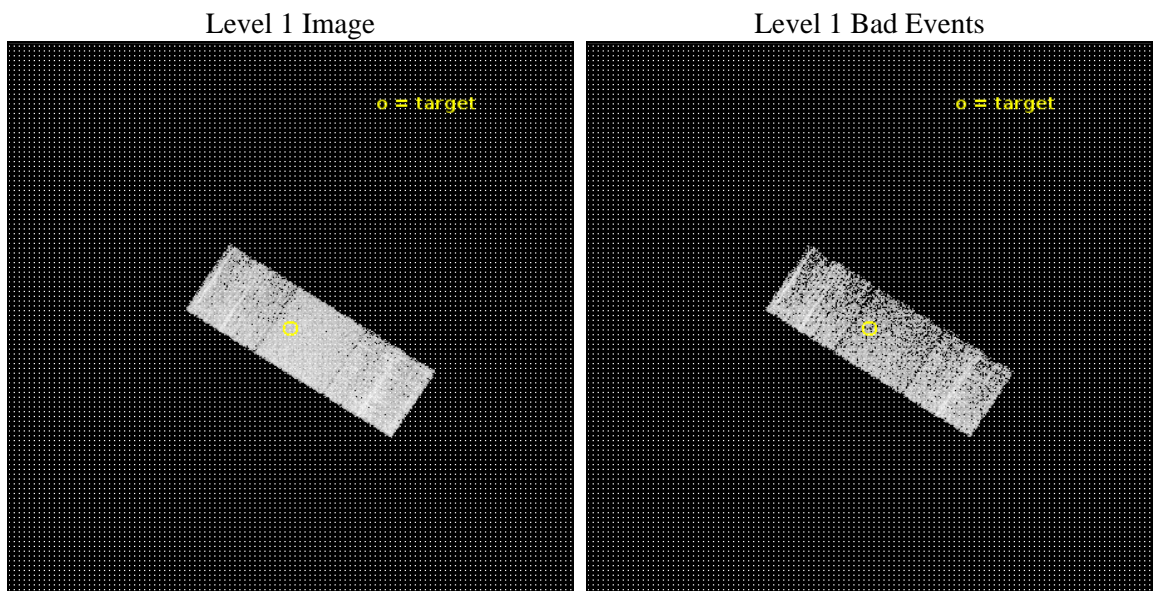
seq_num	703680	Sequence number
obs_id	21140	Observation id
title	A Chandra view of Eddington-limited accretion in DOGs	Proposal tit
observer	Dr. Gordon Garmire	Principal investigator
object	J1235+4827	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.9375	Observer's specified target RA [deg]
dec_targ	48.454306	Observer's specified target Dec [deg]
ra_nom	188.93879001175	Nominal RA [deg]
dec_nom	48.459895560619	Nominal Dec [deg]
roll_nom	32.838330014255	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2926.4000226259	Sum of GTIs [s]
livetime	2888.164451946	Livetime [s]
ontime6	2926.4000226259	Sum of GTIs [s]
ontime7	2926.4000226259	Sum of GTIs [s]
ontime8	2916.9770518541	Sum of GTIs [s]
l2events	16569	Number of level 2 events



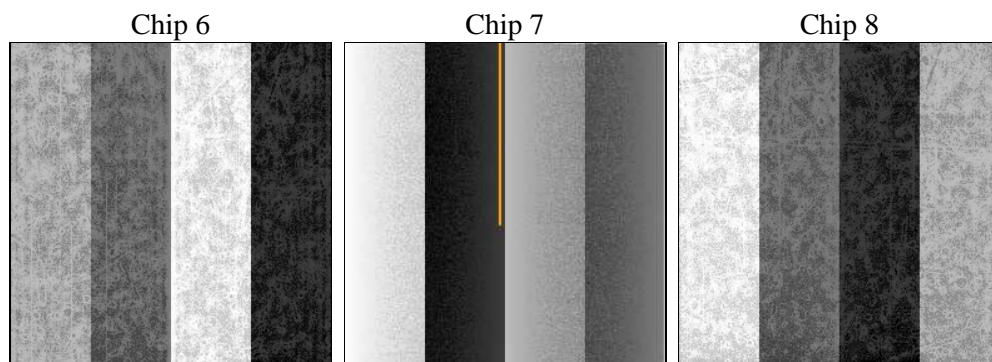
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	2926.4000226259	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	2926.4000226259	Sum of GTIs [s]
date	2018-11-07T18:46:09	Date and time of file creation	ontime7	2926.4000226259	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	2916.9770518541	Sum of GTIs [s]
			l1events	79154	Number of level 1 events

2.1.4 Events

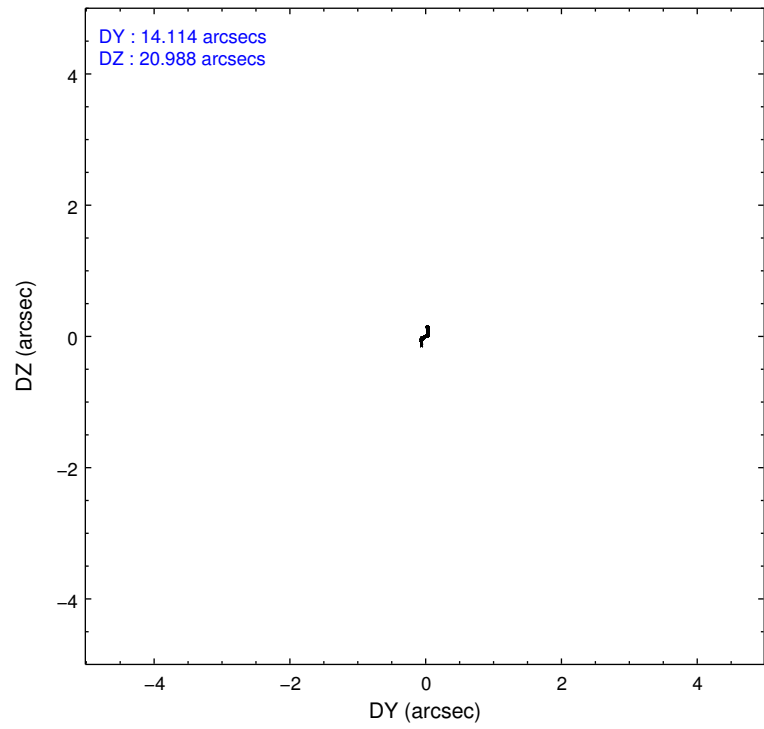
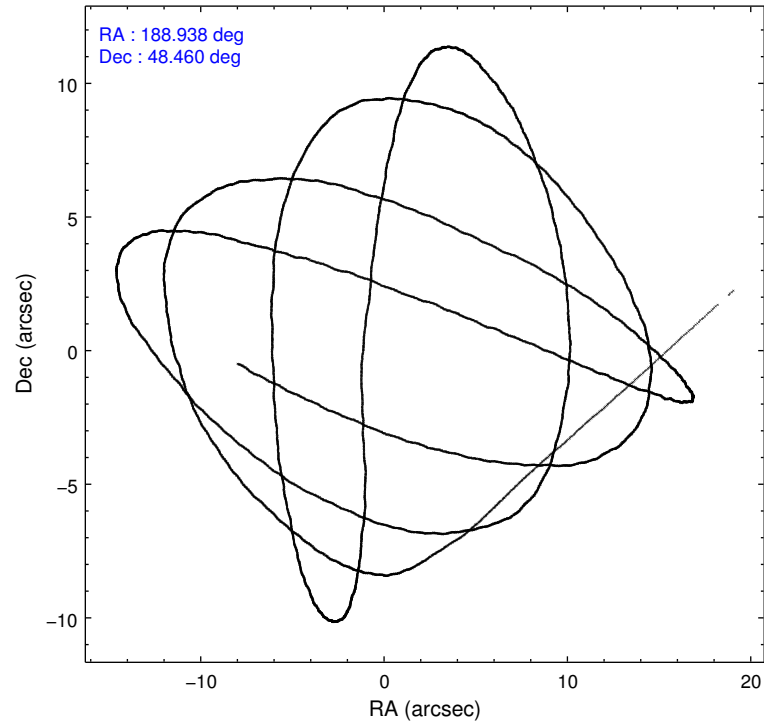
	ccd 6	ccd 7	ccd 8
level 1 events	21379	27866	29909
rejected events	18959	15705	21953
rejected %	88%	56%	73%

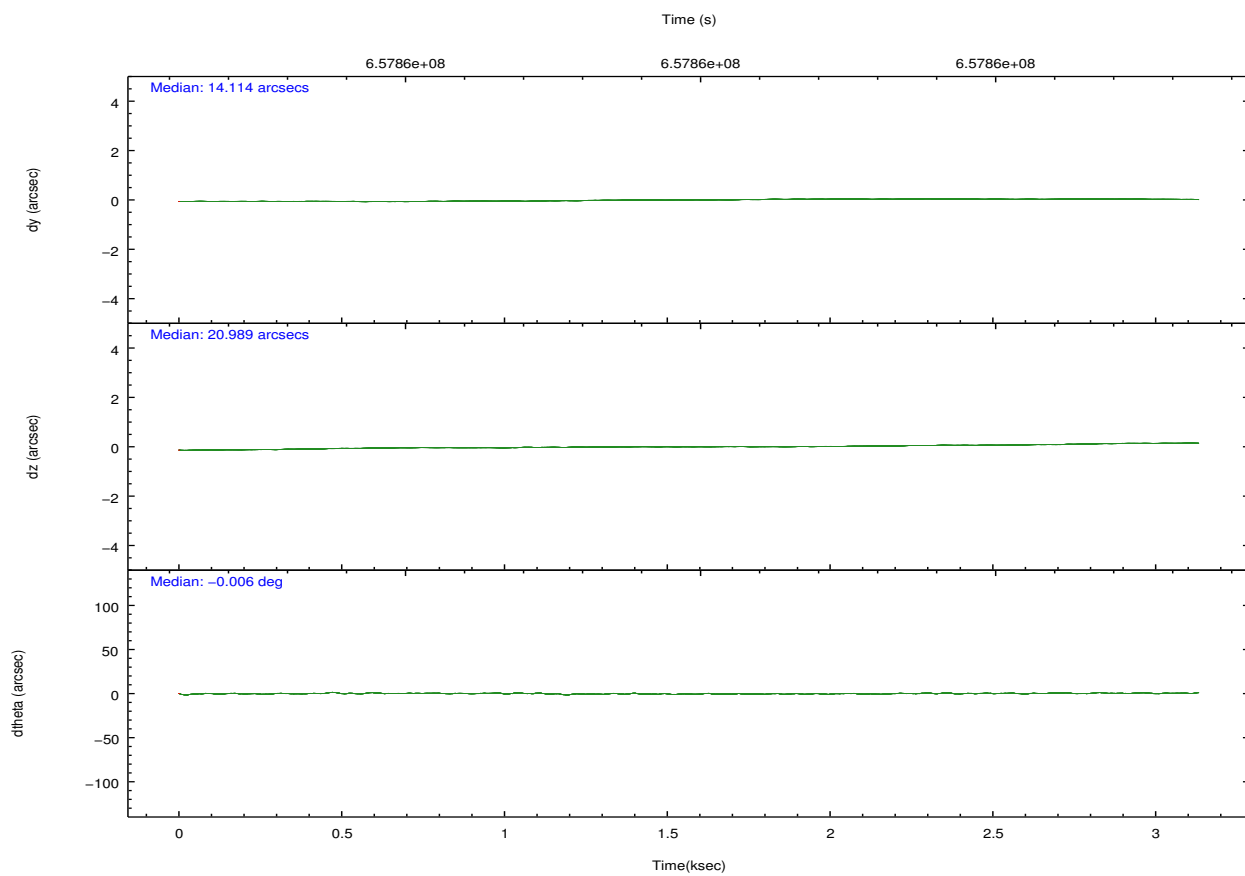
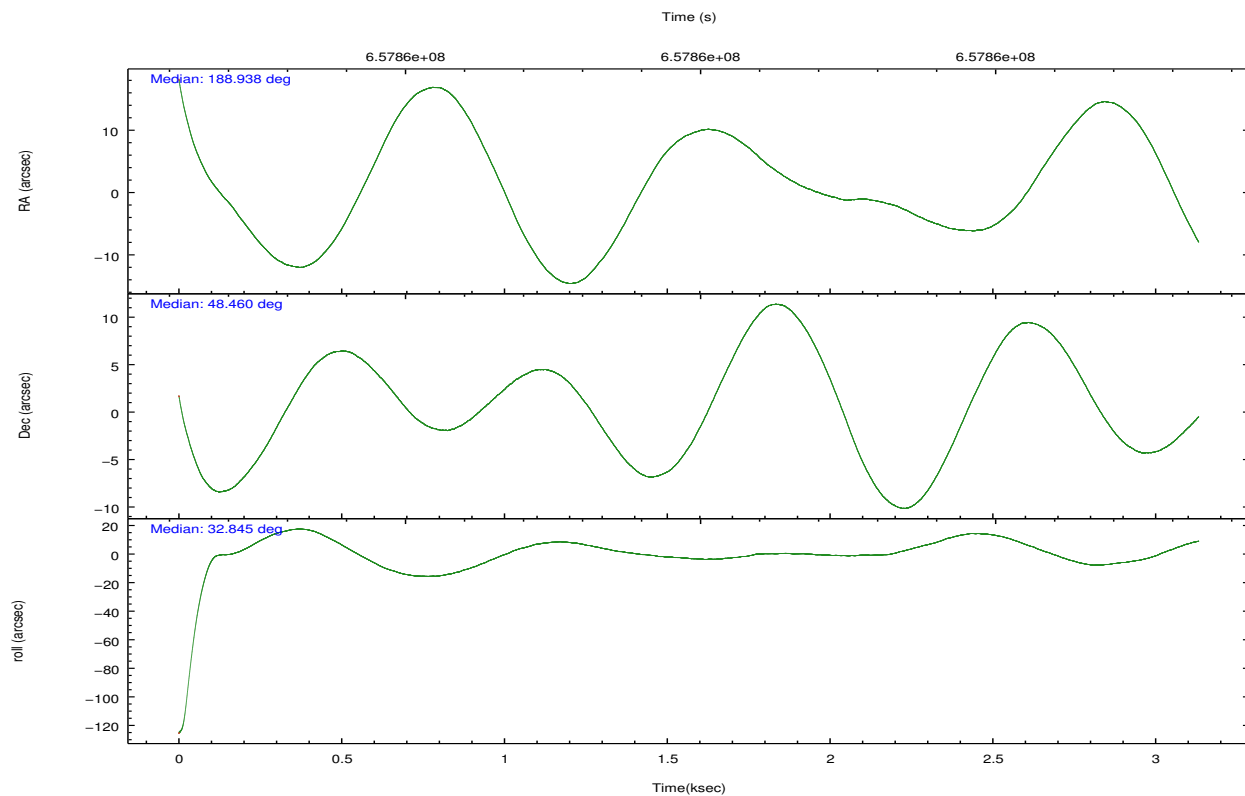
	ccd 6	ccd 7	ccd 8
grade 0 events	753	1032	2473
	3%	3%	8%
grade 1 events	16	43	36
	0%	0%	0%
grade 2 events	583	2533	1900
	2%	9%	6%
grade 3 events	242	921	789
	1%	3%	2%
grade 4 events	237	954	732
	1%	3%	2%
grade 5 events	970	2709	1449
	4%	9%	4%
grade 6 events	607	6734	2063
	2%	24%	6%
grade 7 events	17971	12940	20467
	84%	46%	68%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	188.920289	188.9387900117531	Subarray requested	NONE	NONE
[deg] Pointing Dec	48.435423	48.45989556061947	Alternating exposures requested	N	N
[deg] Pointing Roll	32.696072	32.83833001425472	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	657855513.184000	657854836.13662			
Observation start date	2018-11-06T01:37:24	2018-11-06T01:27:16			
[s] Observation end time (MET)	657858513.184000	657858833.12436			
Observation end date	2018-11-06T02:27:24	2018-11-06T02:33:53			
Read mode	TIMED	TIMED			

2.3 Aspect



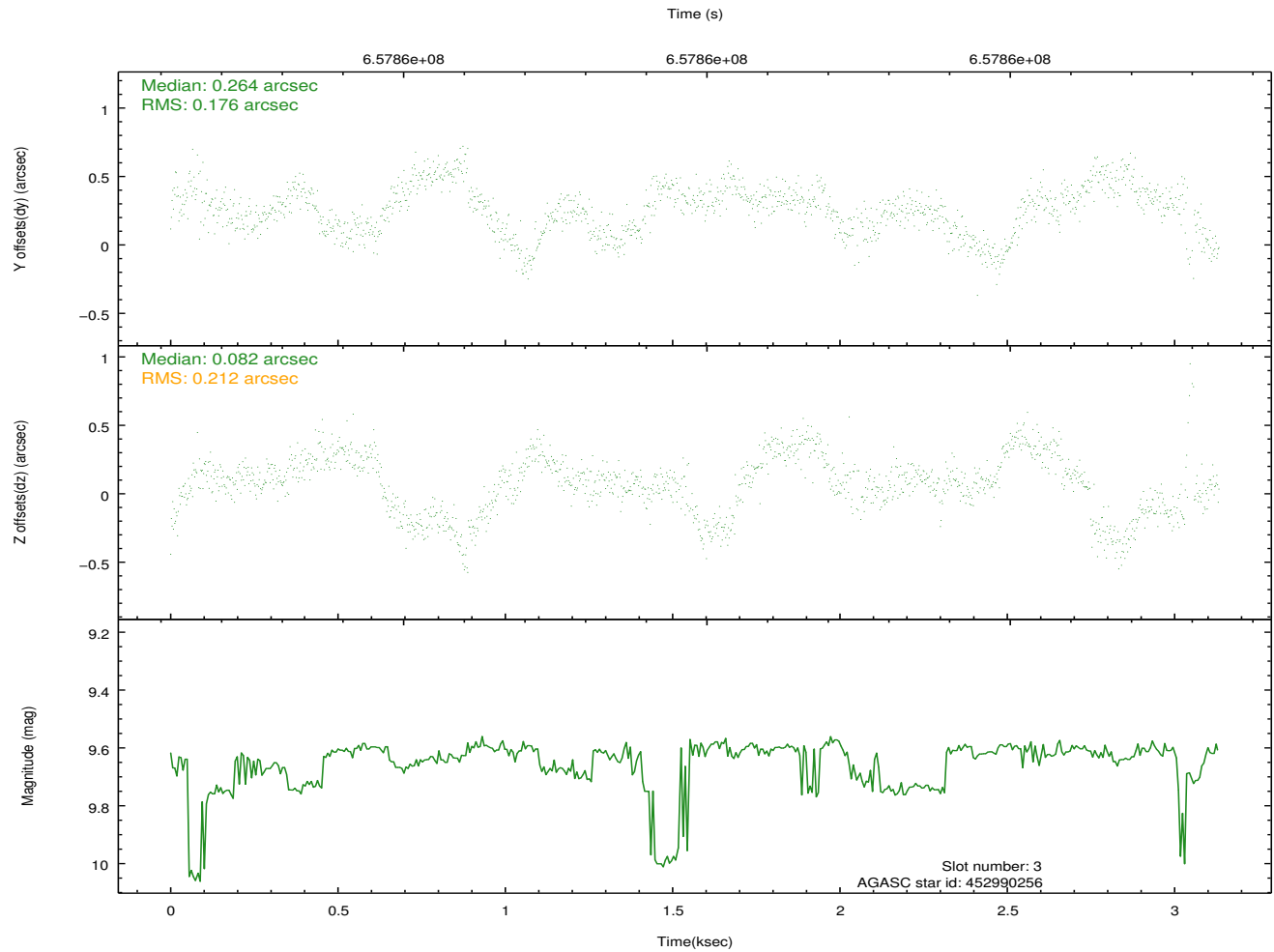
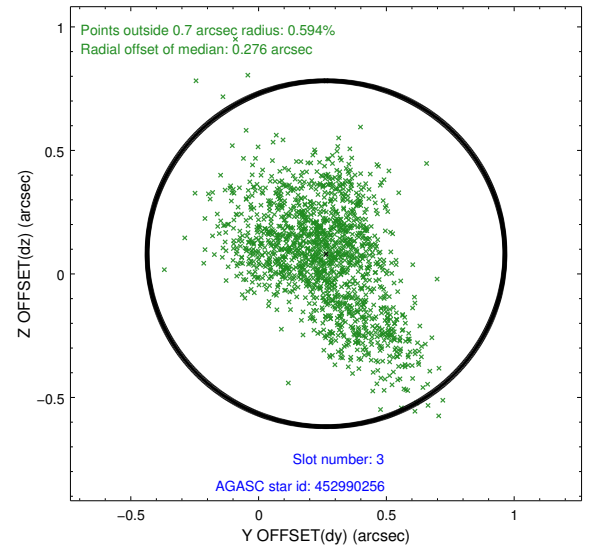
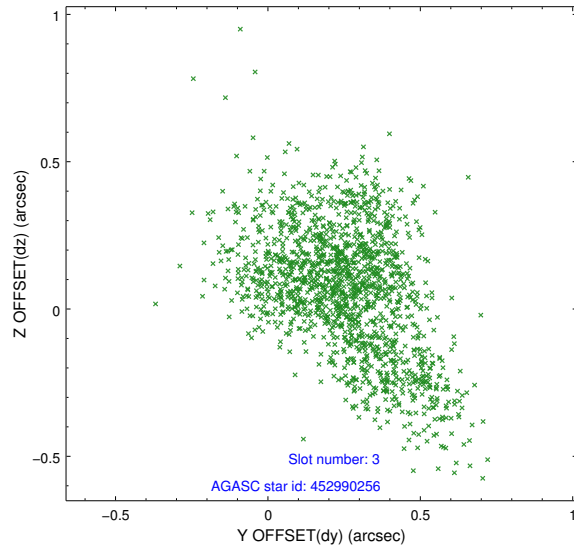


Slot Statistics

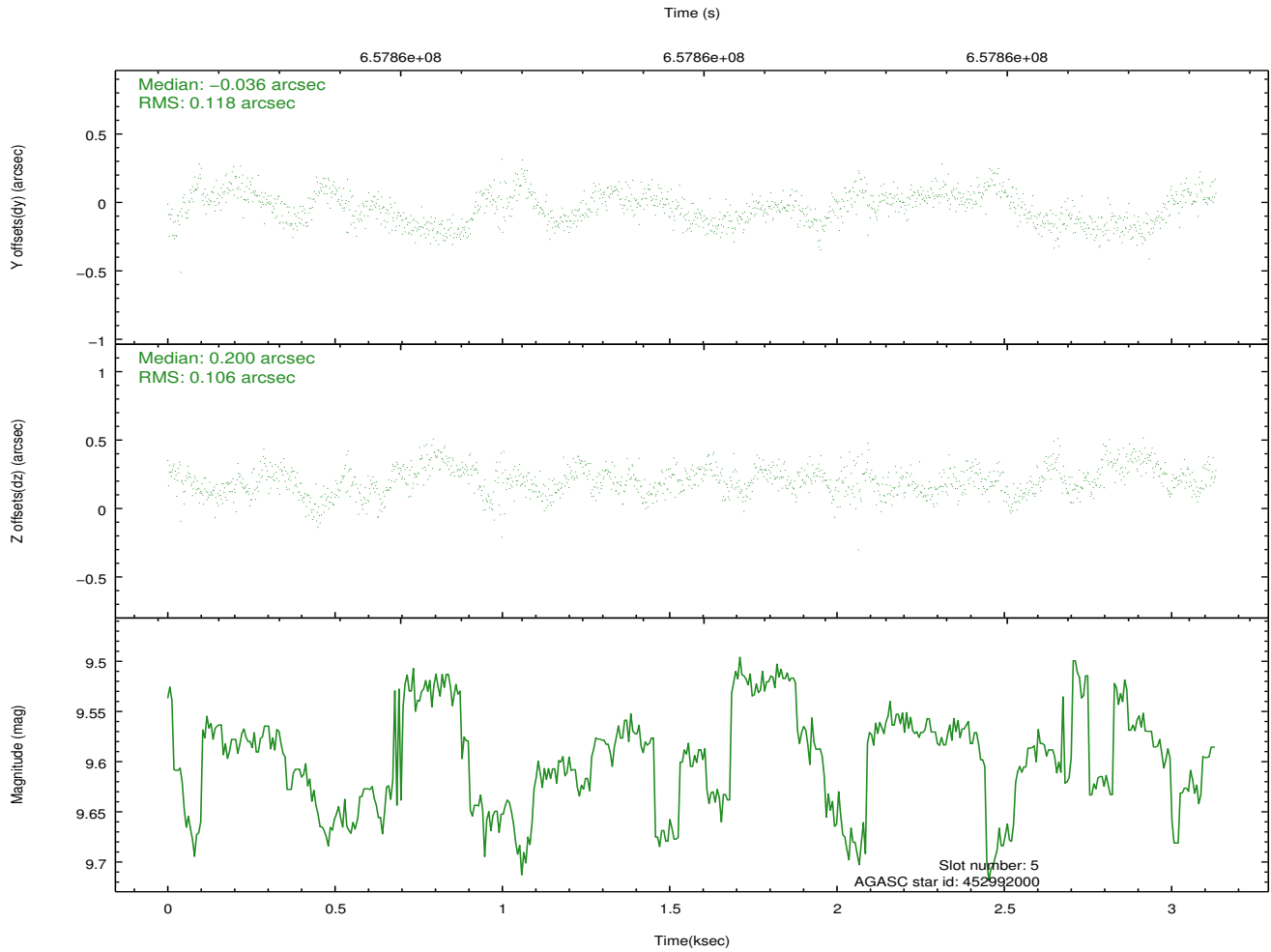
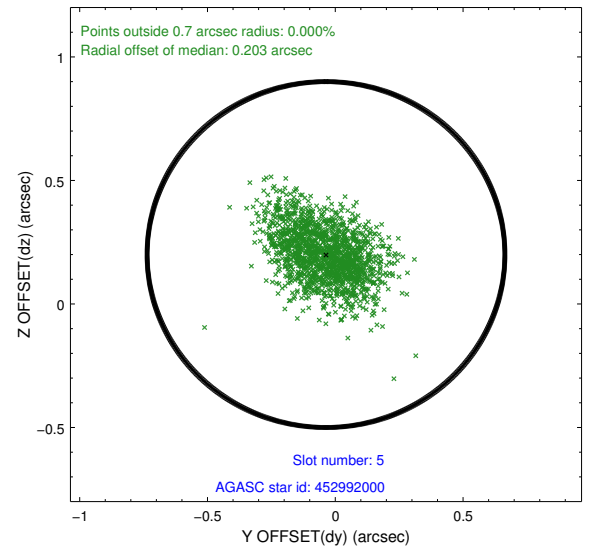
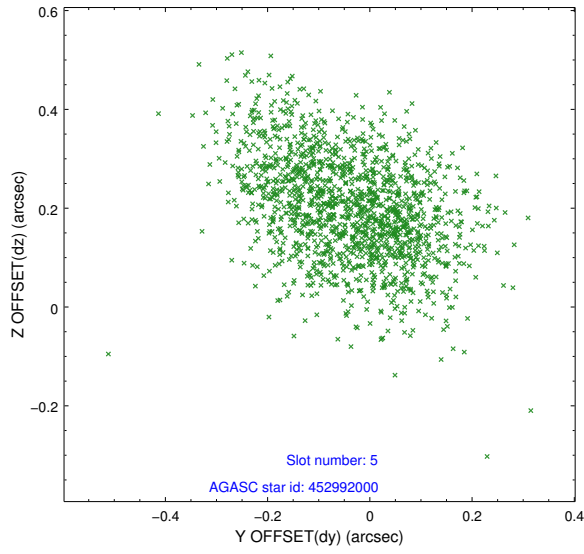
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	765	1.000	-0.339	-0.186	0.007	0.012	0.000000	0.000000	-767.31	-1742
1	FID		ACIS-S-4	7.19	765	1.000	0.787	0.213	0.005	0.010	0.000000	0.000000	2146.08	164
2	FID		ACIS-S-5	7.17	765	1.000	-0.478	-0.019	0.006	0.012	0.000000	0.000000	-1817.77	159
3	GUIDE	used	452990256	9.63	1514	1.000	0.264	0.082	0.291	0.488	187.913903	48.364787	-2153.24	1100
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	452992000	9.59	1526	1.000	-0.036	0.200	0.167	0.272	189.274451	48.533208	900.72	-156
6	GUIDE	used	452998240	9.38	1515	1.000	0.190	0.393	0.179	0.282	189.447374	48.065399	350.84	-1801
7	GUIDE	used	453252024	8.95	1526	1.000	-0.392	-0.660	0.179	0.293	189.039065	49.182866	1688.66	2112

2.4 Star Slots

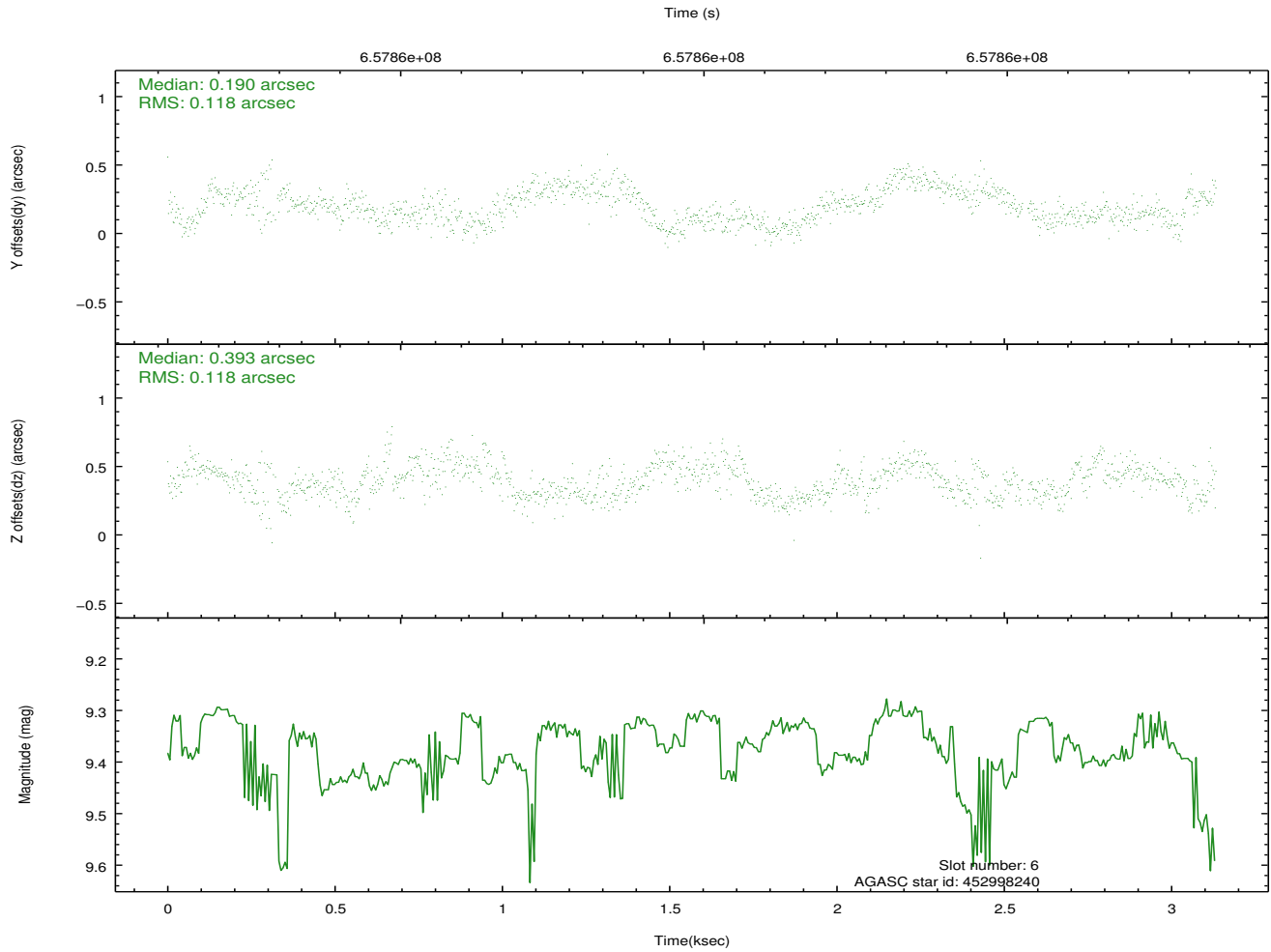
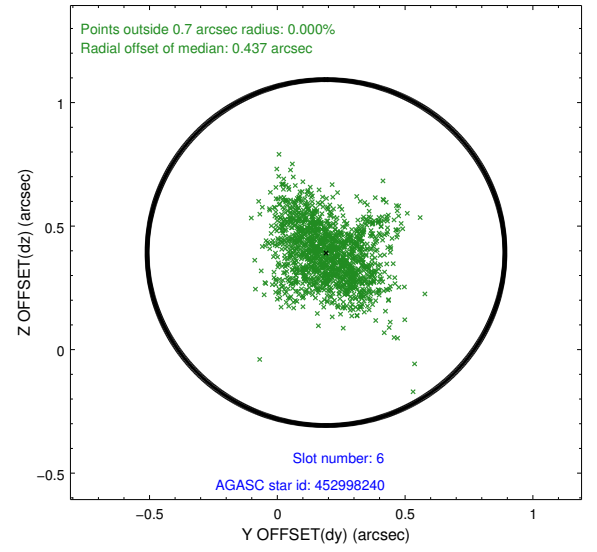
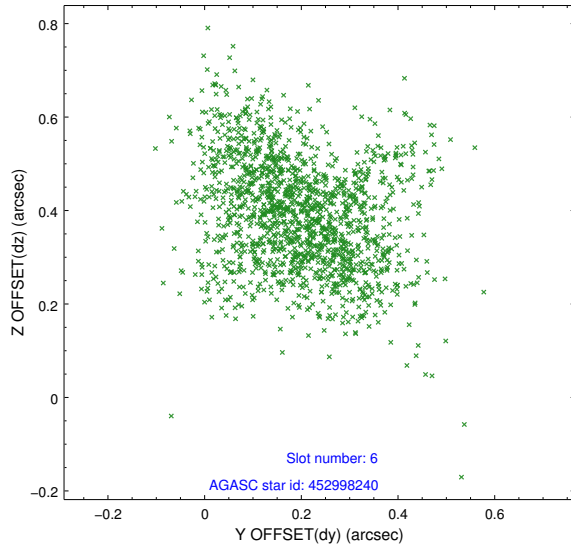
2.4.1 Slot 3



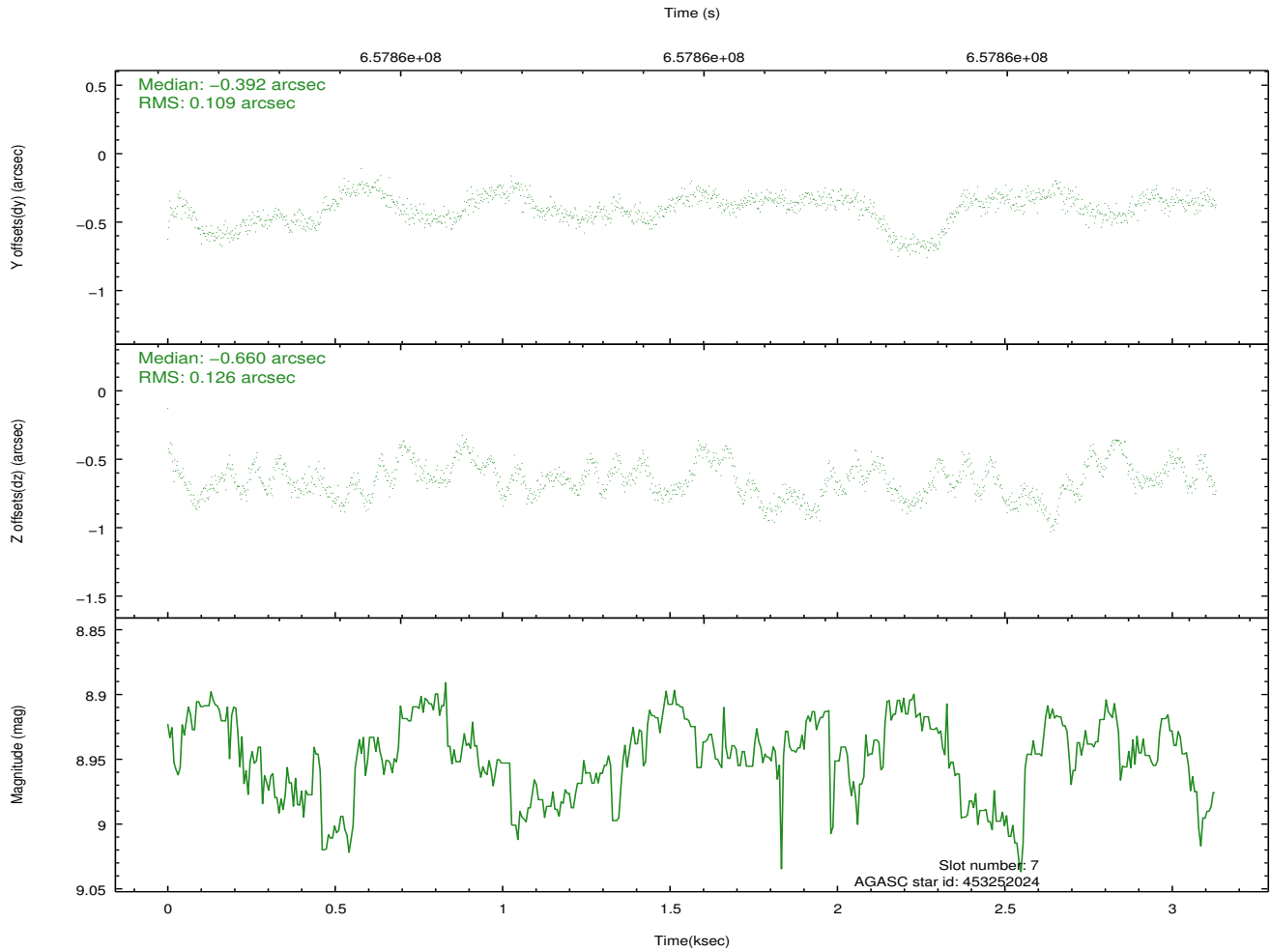
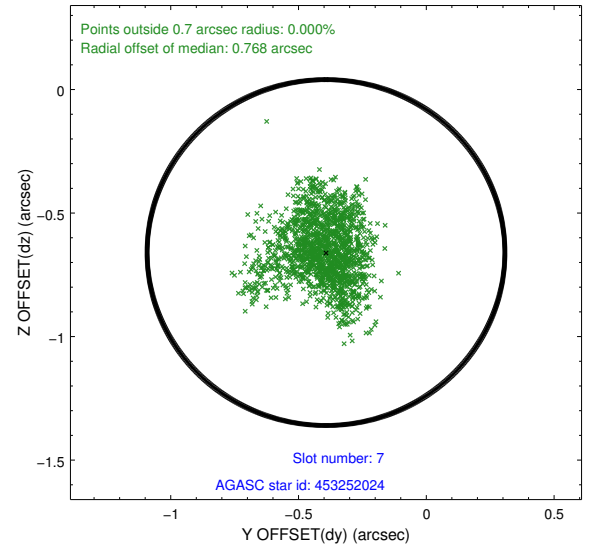
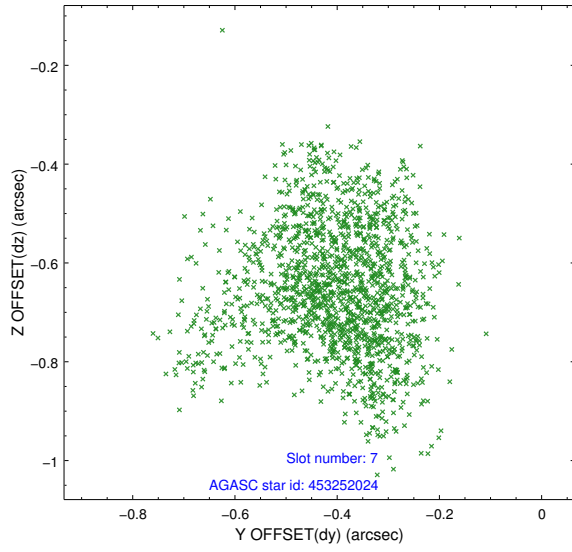
2.4.2 Slot 5



2.4.3 Slot 6

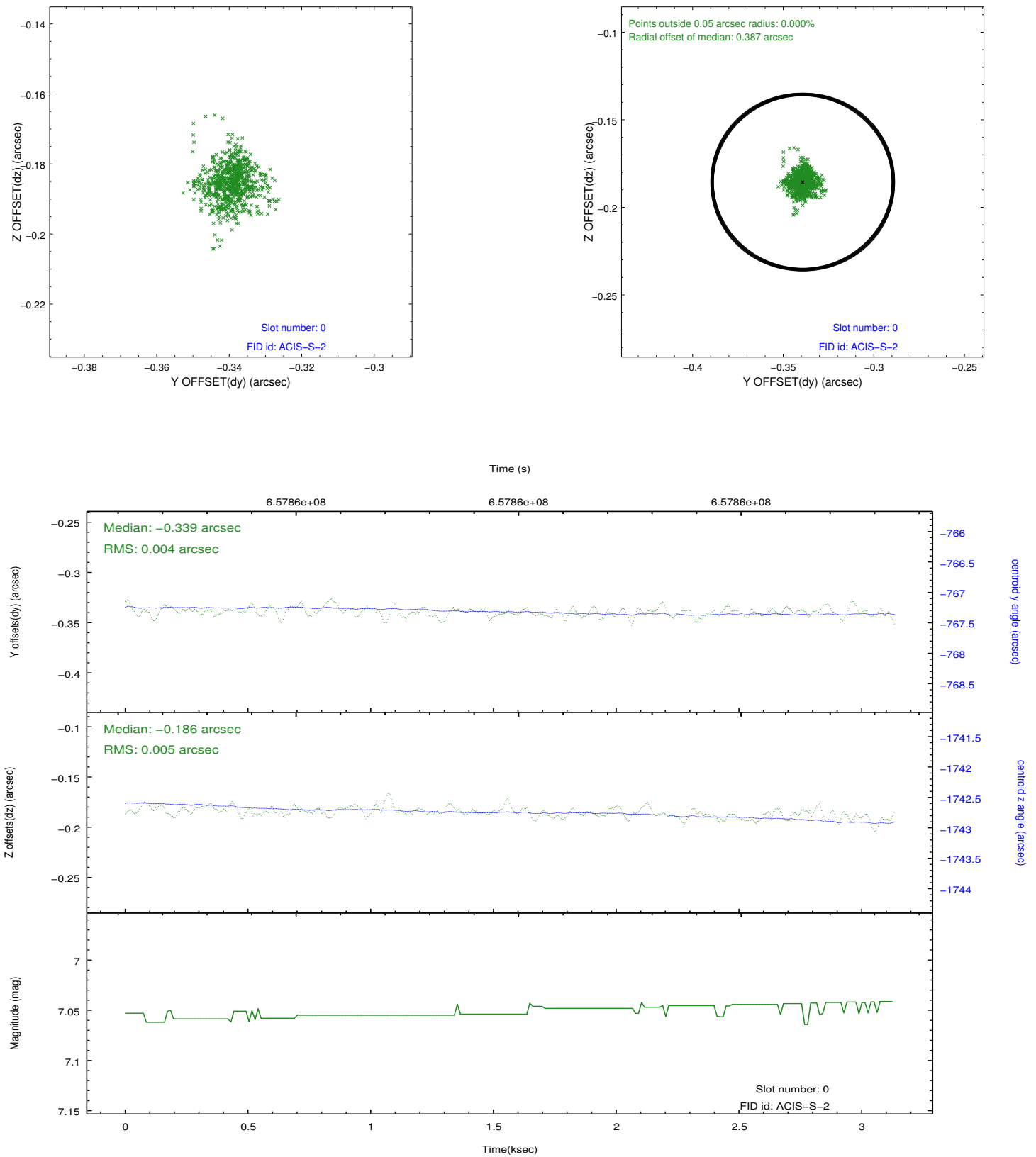


2.4.4 Slot 7

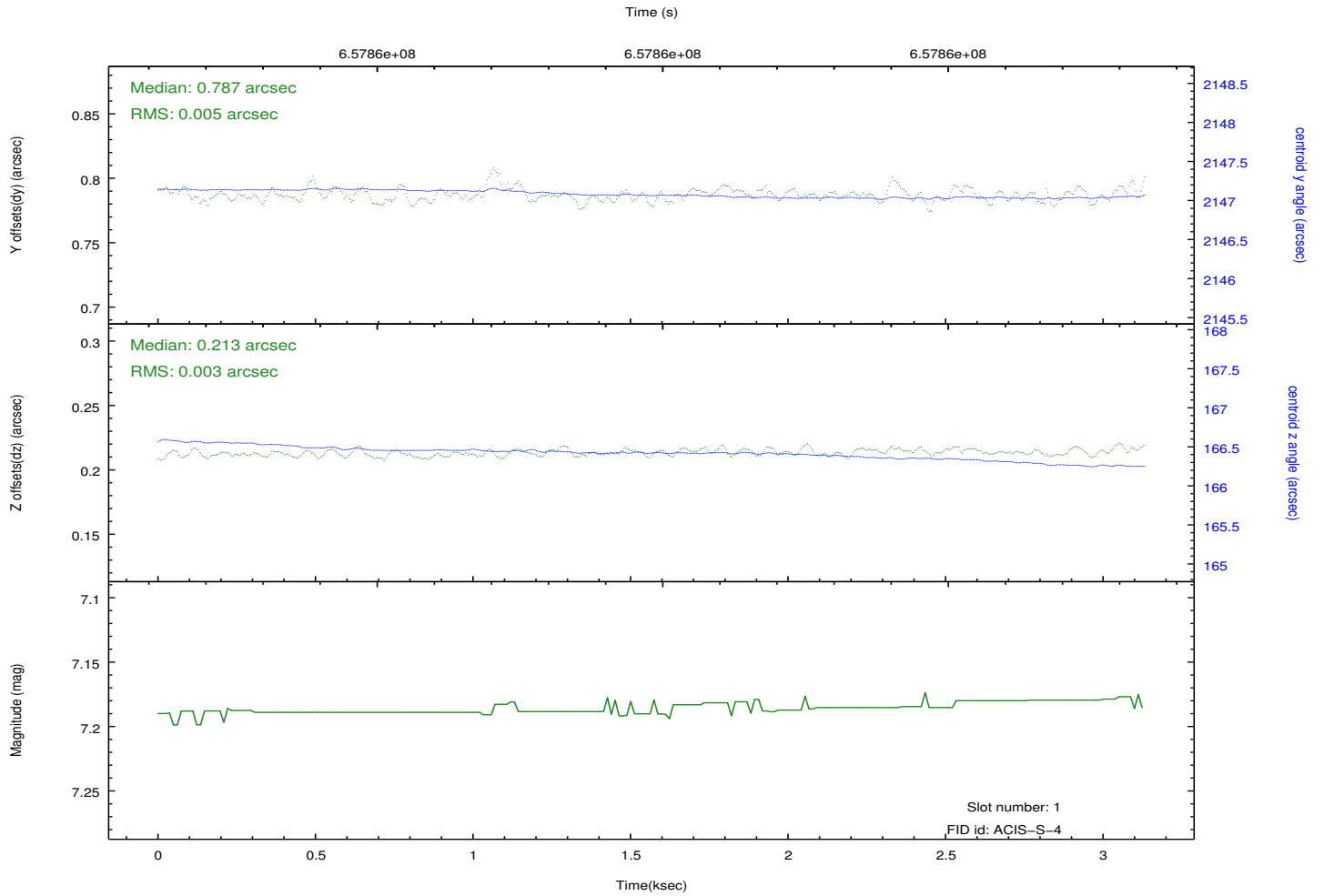
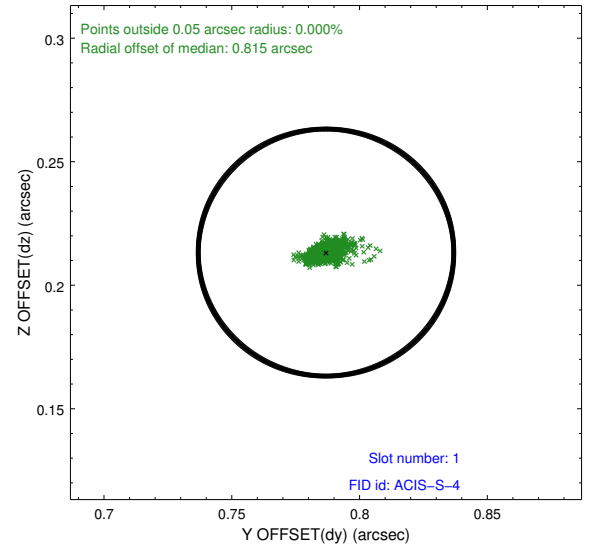
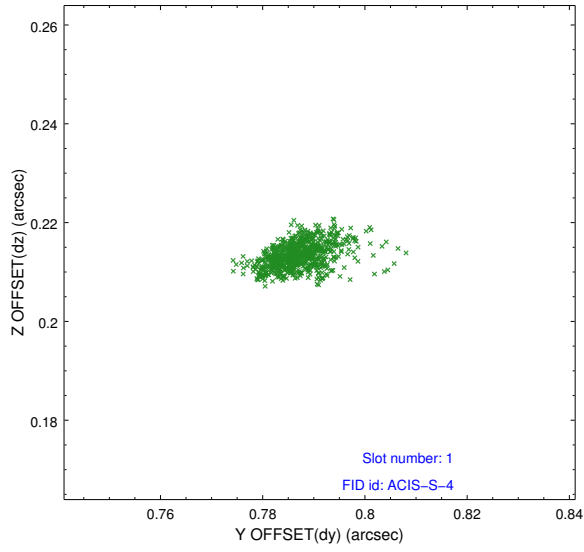


2.5 FID Slots

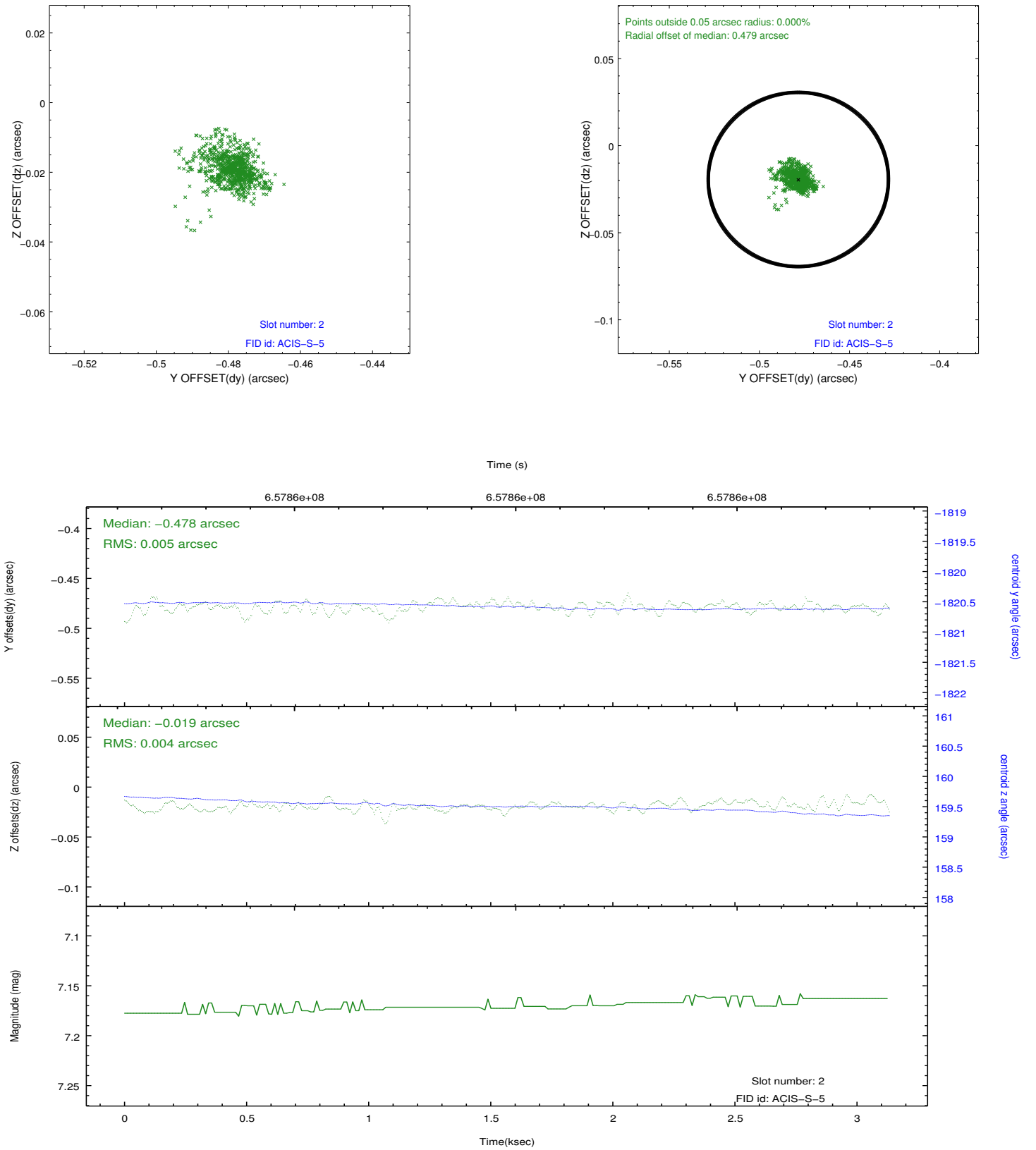
2.5.1 Slot 0



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)	2018.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9264000226259

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.