

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22552 - L2 Version 2
Chandra X-Ray Center

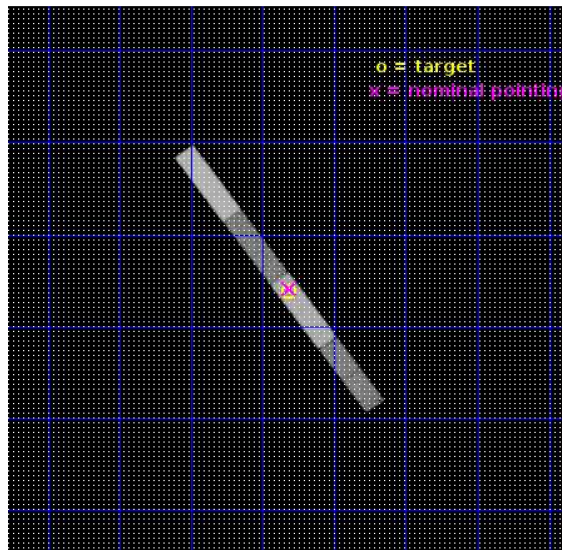
L2 Processing Date : Oct 25 2019

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1 Front

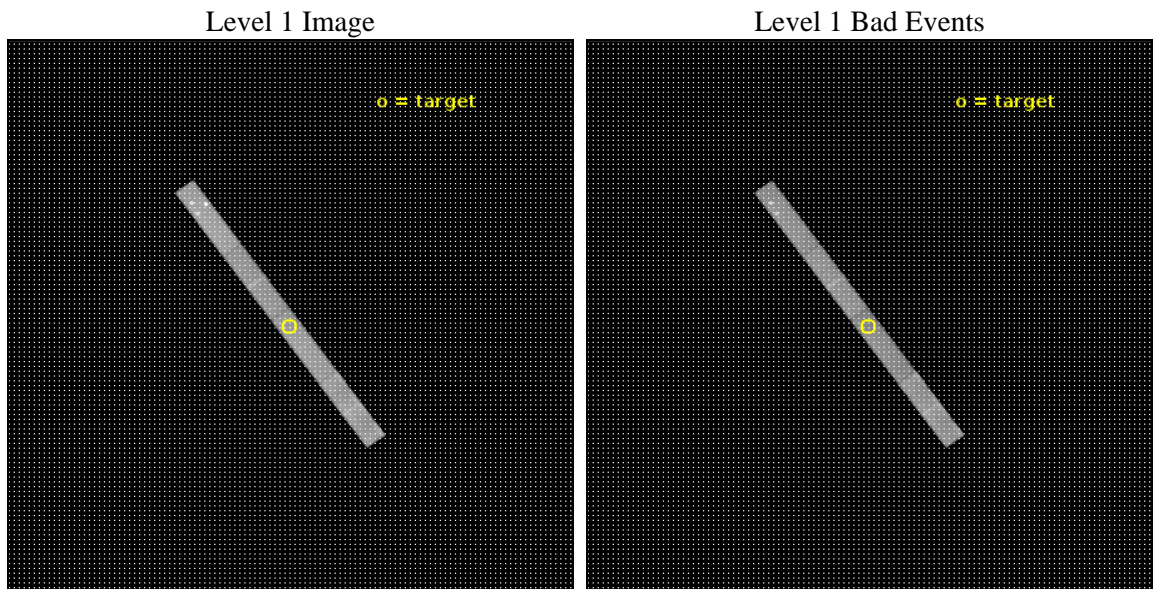
seq_num	703940	Sequence number
obs_id	22552	Observation id
title	Mapping NGC 1194: a Compton Thick AGN in the nearby Universe	Propo
observer	Tracey Turner	Principal investigator
object	NGC 1194	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.954583	Observer's specified target RA [deg]
dec_targ	-1.103608	Observer's specified target Dec [deg]
ra_nom	45.95309980576	Nominal RA [deg]
dec_nom	-1.0982740429605	Nominal Dec [deg]
roll_nom	54.156610932545	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41082.0	Sum of GTIs [s]
livetime	39462.460616307	Livetime [s]
ontime5	41082.0	Sum of GTIs [s]
ontime6	41082.0	Sum of GTIs [s]
ontime7	41082.0	Sum of GTIs [s]
ontime8	41082.0	Sum of GTIs [s]
l2events	132007	Number of level 2 events



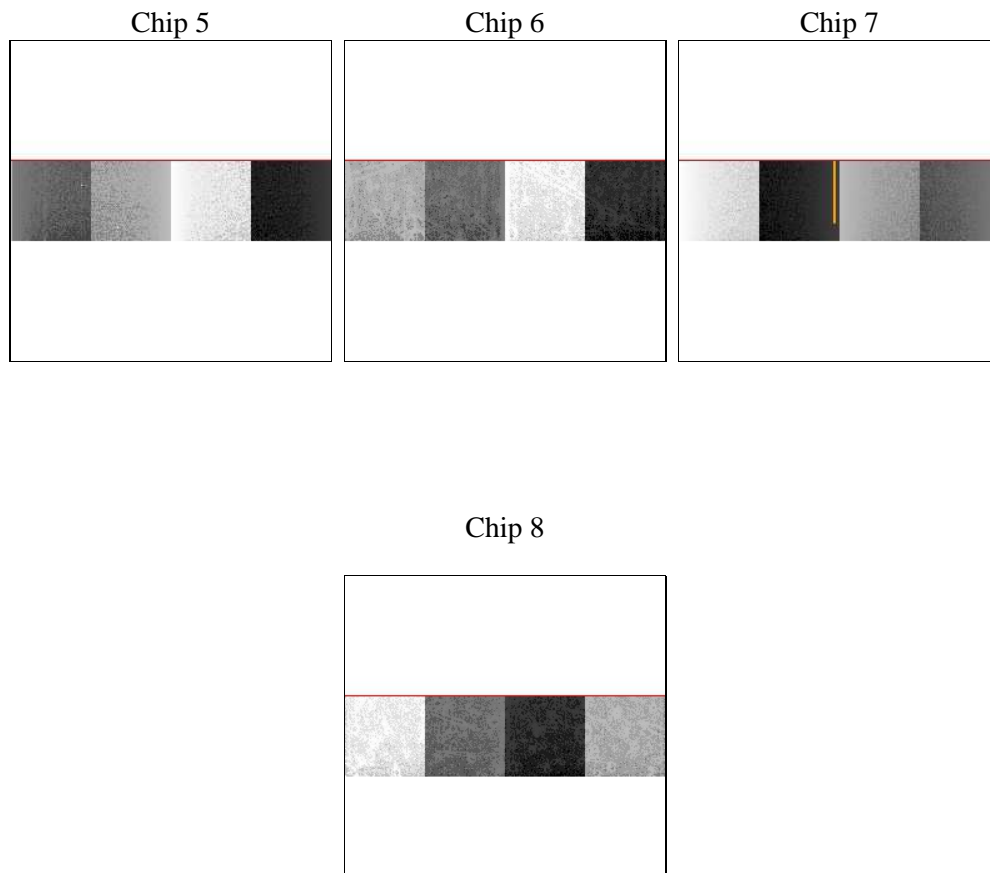
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	41082.0	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime5	41082.0	Sum of GTIs [s]
date	2019-10-25T15:53:51	Date and time of file creation	ontime6	41082.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	41082.0	Sum of GTIs [s]
			ontime8	41082.0	Sum of GTIs [s]
			l1events	509170	Number of level 1 events

2.1.4 Events

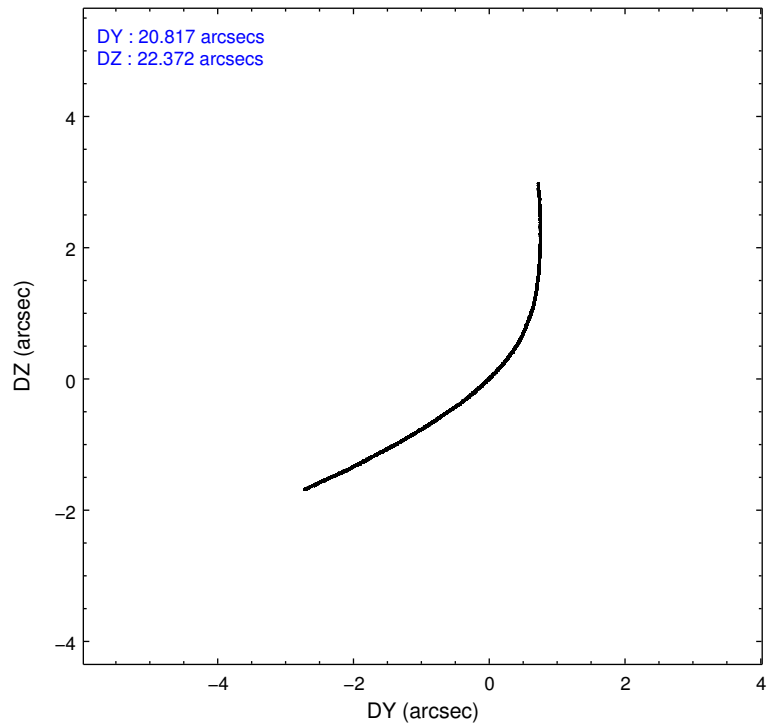
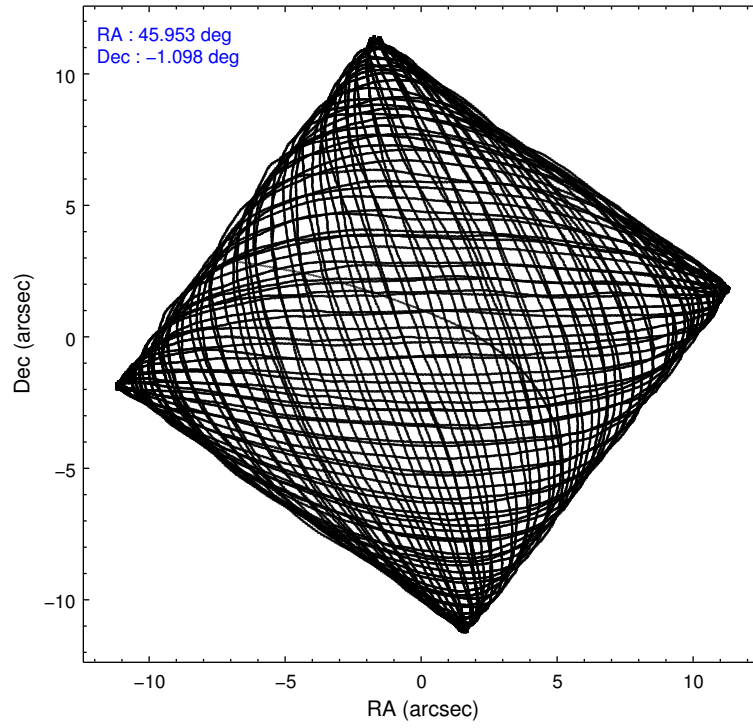
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176668	93309	112868	126325
rejected events	80403	82684	60997	95772
rejected %	45%	88%	54%	75%

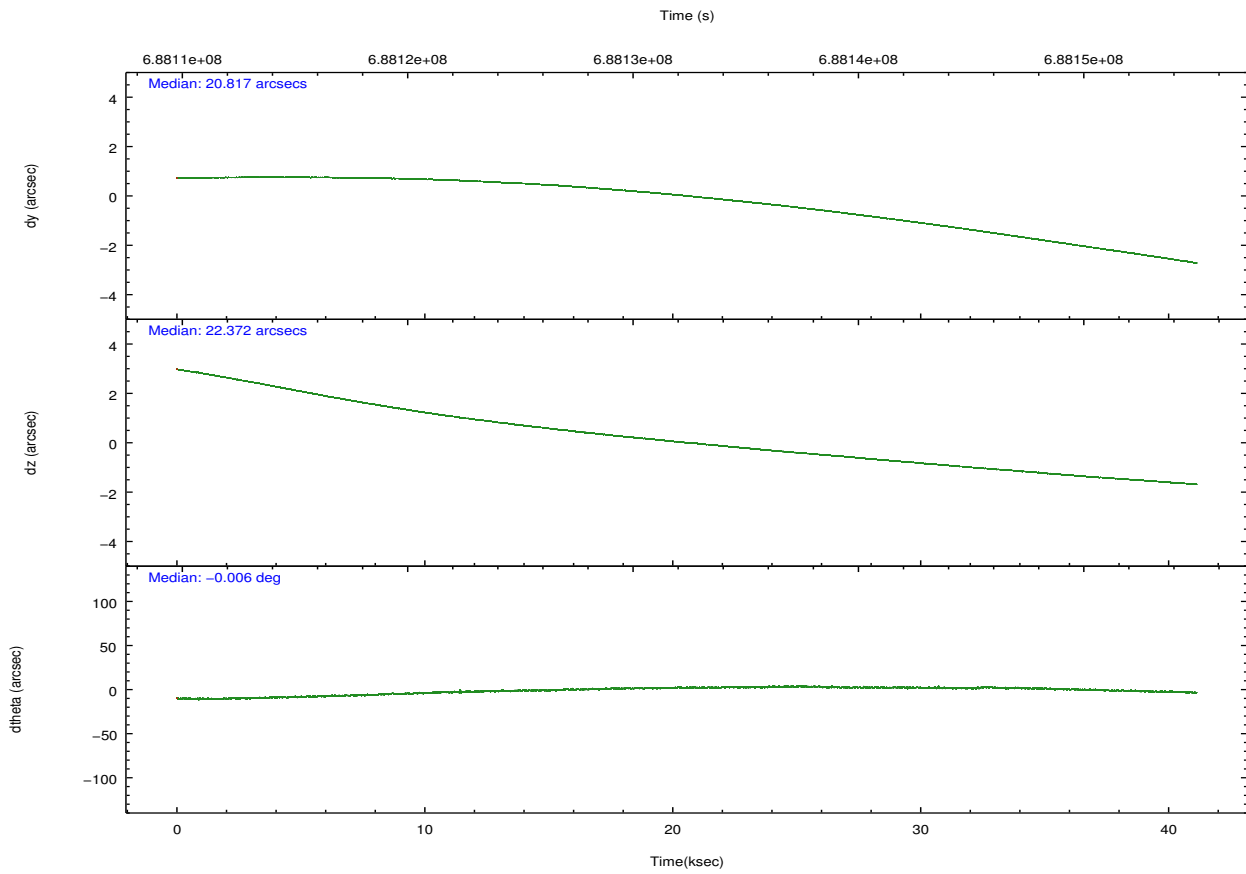
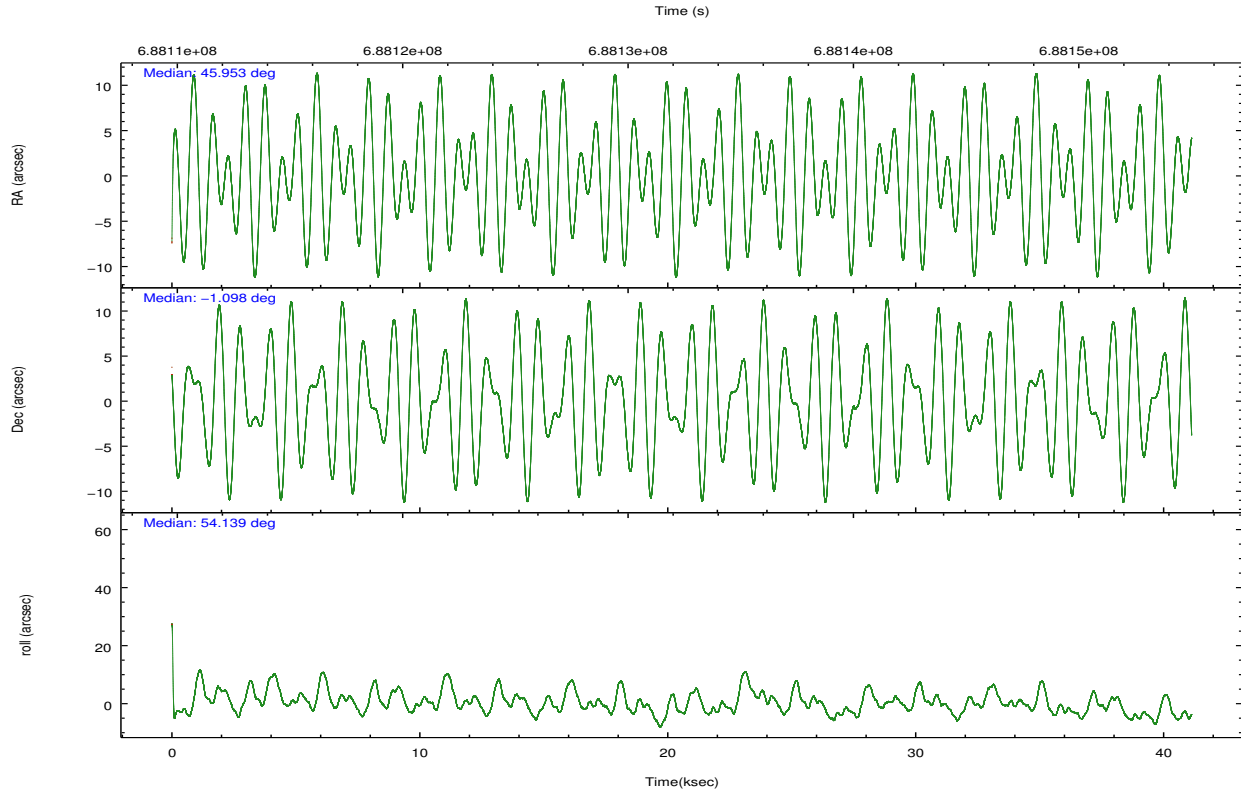
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	28496	3083	5038	7690
	16%	3%	4%	6%
grade 1 events	1970	24	200	54
	1%	0%	0%	0%
grade 2 events	27455	2241	10775	6958
	15%	2%	9%	5%
grade 3 events	3003	1500	5511	3495
	1%	1%	4%	2%
grade 4 events	2895	1508	5144	3237
	1%	1%	4%	2%
grade 5 events	16585	3902	11379	5808
	9%	4%	10%	4%
grade 6 events	34423	2294	25404	9173
	19%	2%	22%	7%
grade 7 events	61841	78757	49417	89910
	35%	84%	43%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	45.950670	45.95309980575976	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-1.125609	-1.098274042960507	Subarray start row	385	385
[deg] Pointing Roll	53.999928	54.1566109325451	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	688111936.184000	688110651.11155			
Observation start date	2019-10-22T06:11:07	2019-10-22T05:50:51			
[s] Observation end time (MET)	688152936.184000	688153354.66413			
Observation end date	2019-10-22T17:34:27	2019-10-22T17:42:34			
Read mode	TIMED	TIMED			

2.3 Aspect





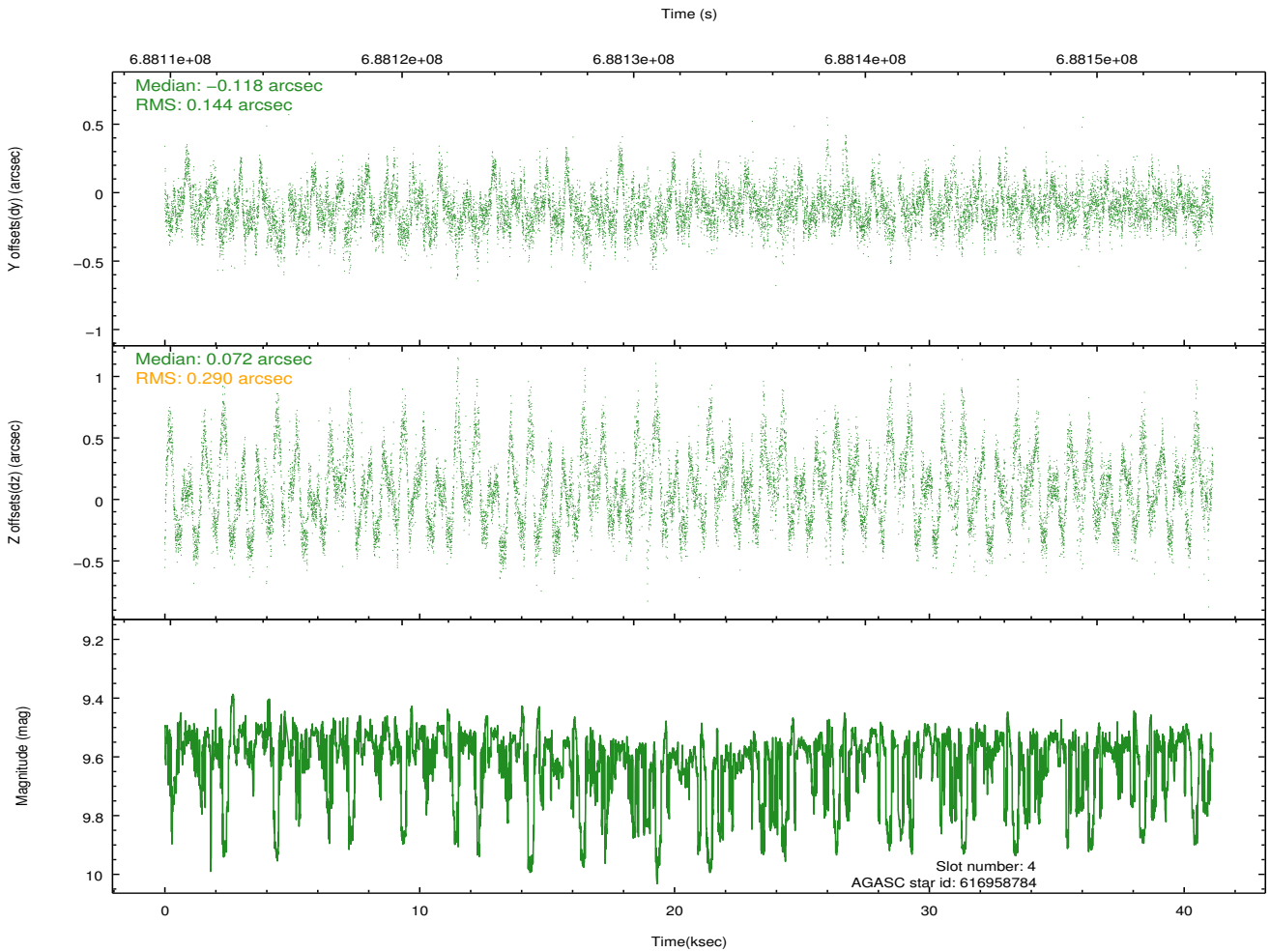
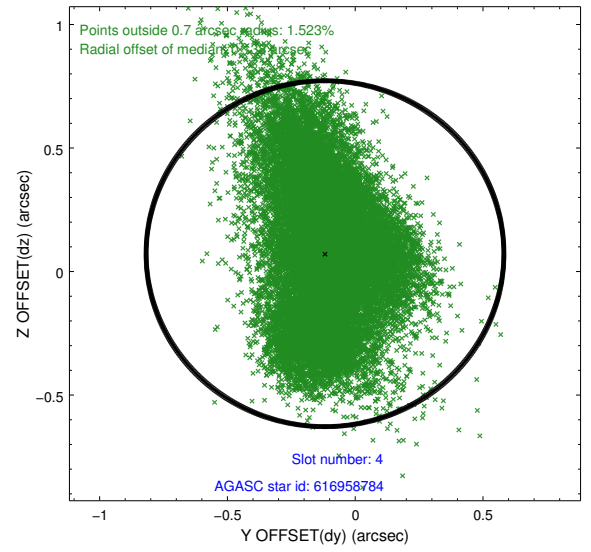
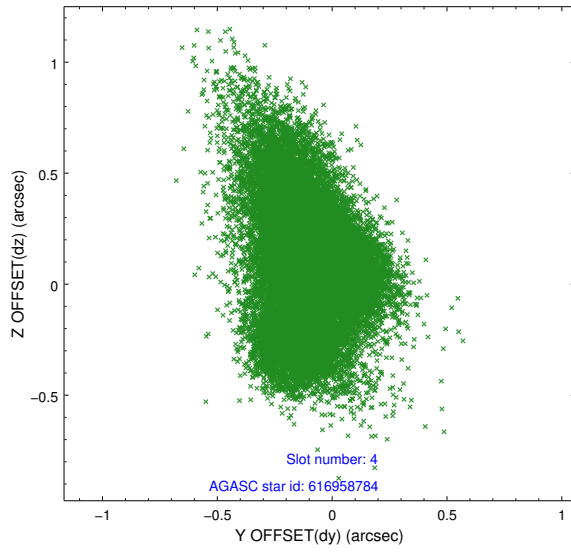
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.08	10033	1.000	-0.360	-0.306	0.028	0.134	0.000000	0.000000	-773.89	-1744
1	FID		ACIS-S-4	7.17	10033	1.000	0.801	0.252	0.020	0.041	0.000000	0.000000	2140.49	164
2	FID		ACIS-S-5	7.16	10033	1.000	-0.469	0.060	0.046	0.116	0.000000	0.000000	-1826.89	157
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	616958784	9.59	19432	1.000	-0.118	0.072	0.340	0.565	46.208963	-1.316678	-9.04	-1156
5	GUIDE	used	616961336	9.58	19697	1.000	0.066	0.297	0.319	0.477	46.093581	-1.282936	-155.18	-748
6	GUIDE	used	616961464	8.29	20049	1.000	0.100	0.022	0.132	0.215	45.458874	-1.162529	-1147.66	1354
7	GUIDE	used	616962800	8.02	19985	1.000	-0.070	-0.393	0.171	0.255	45.469553	-0.918492	-414.75	1838

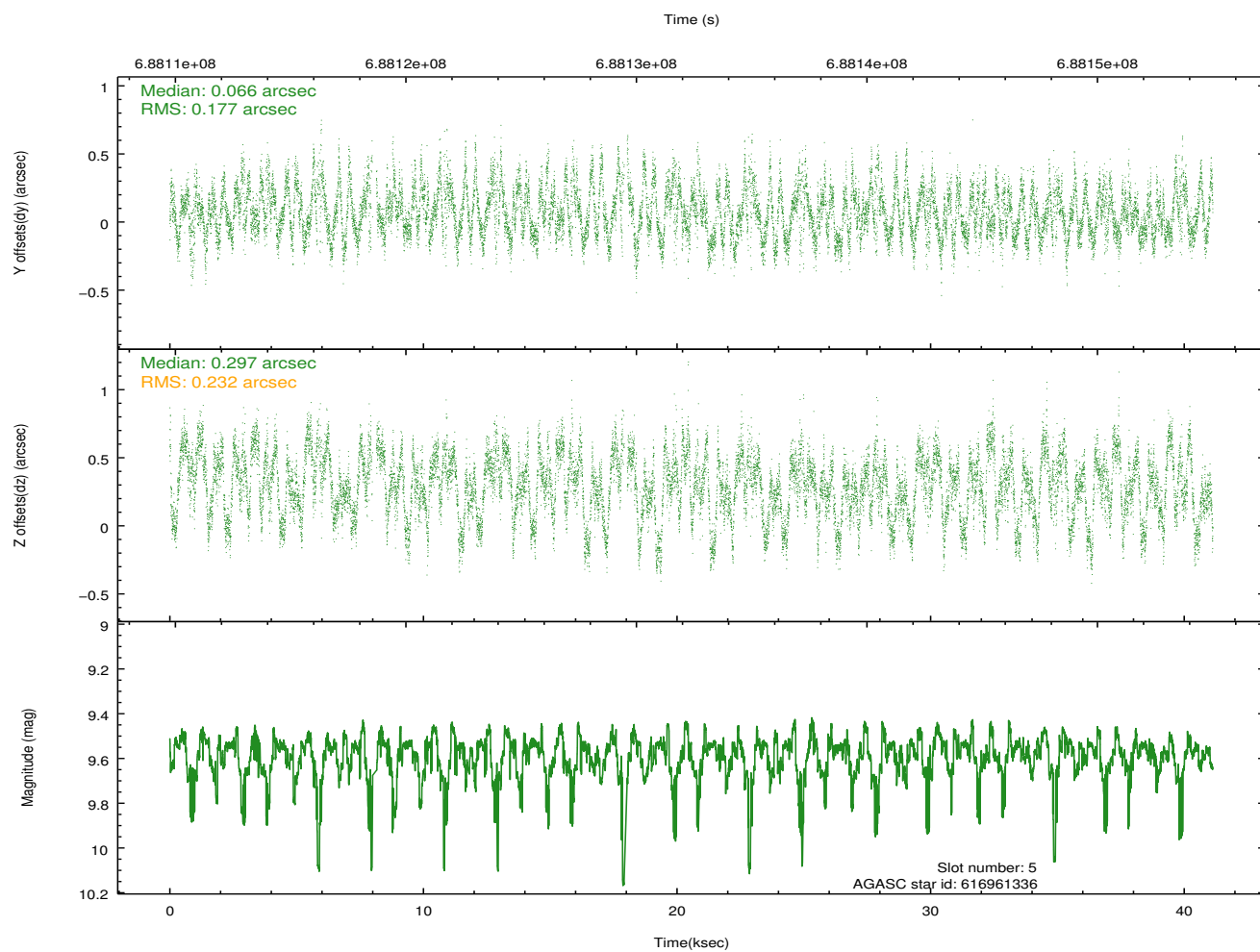
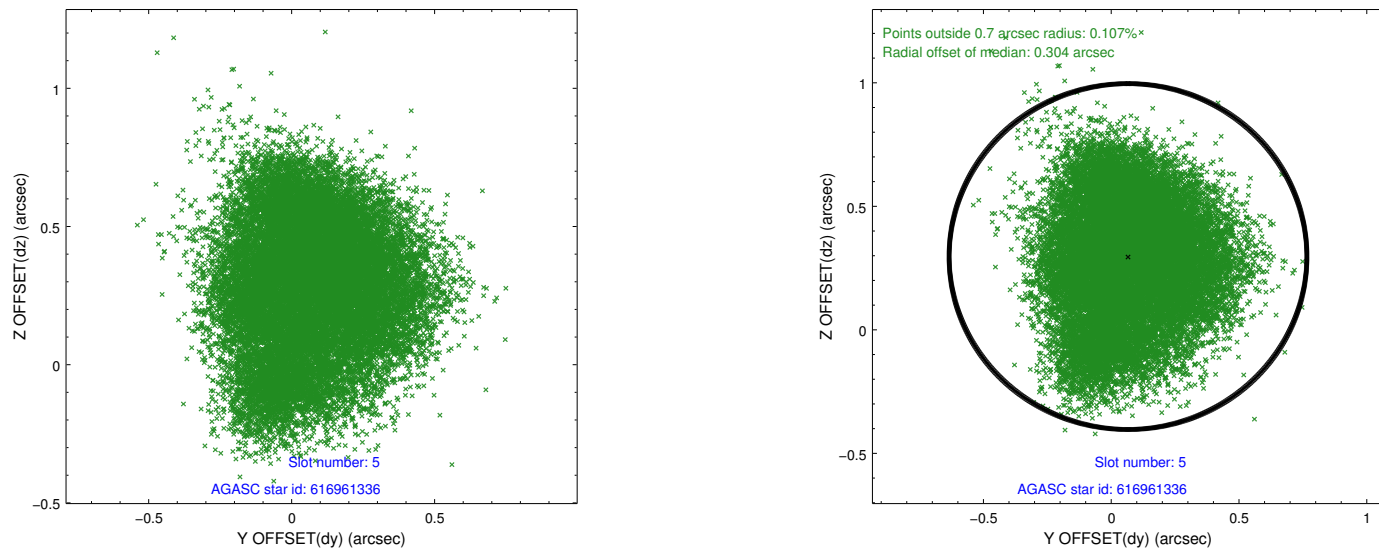
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2.4 Star Slots

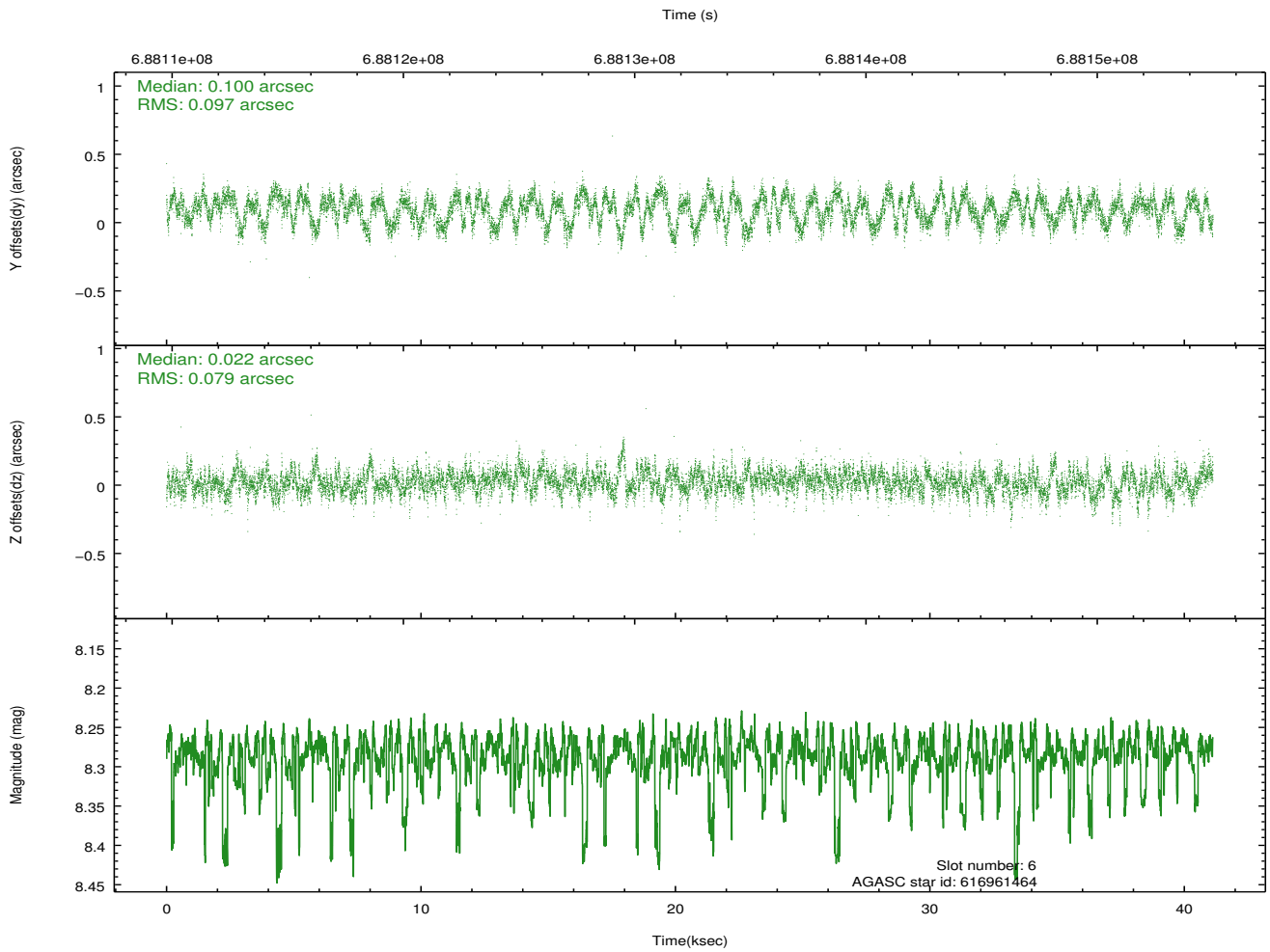
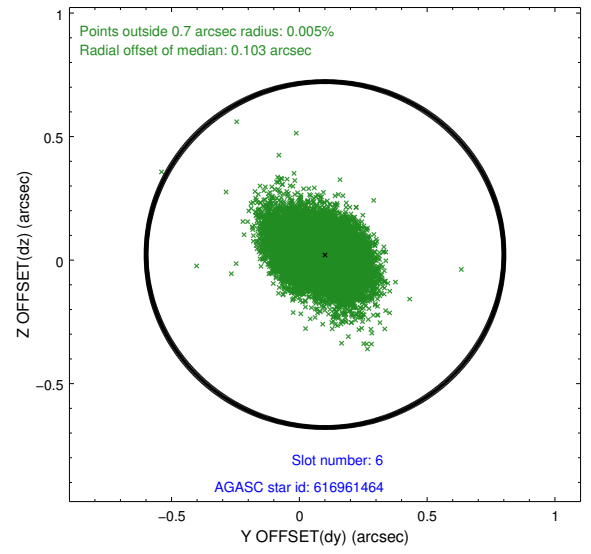
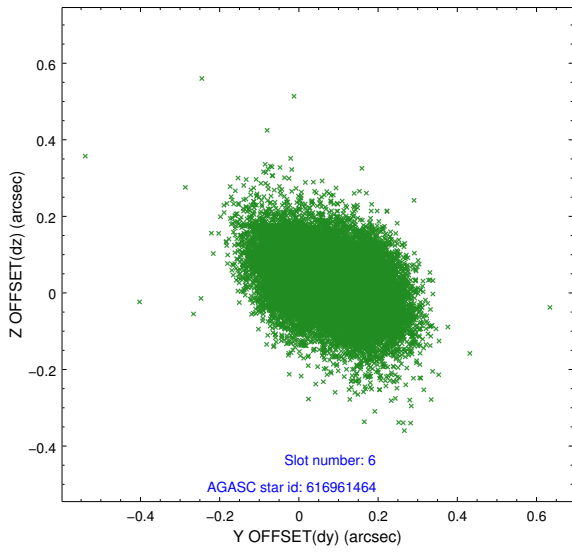
2.4.1 Slot 4



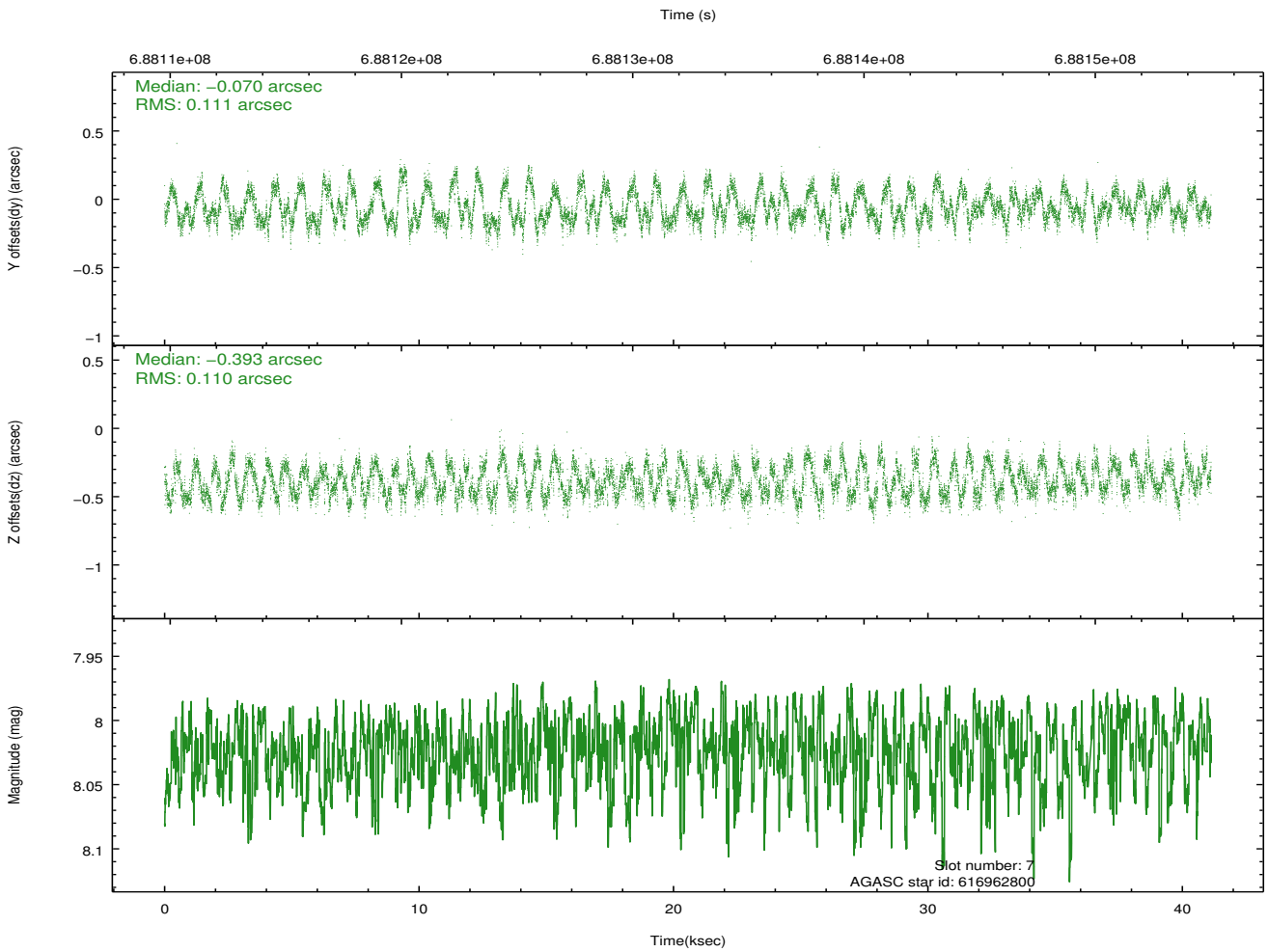
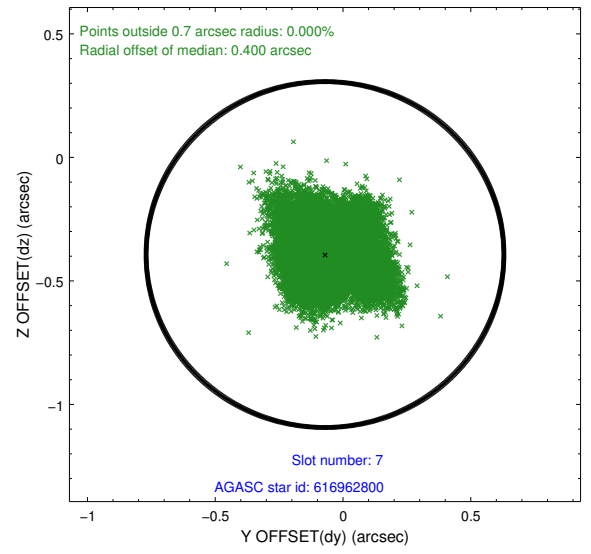
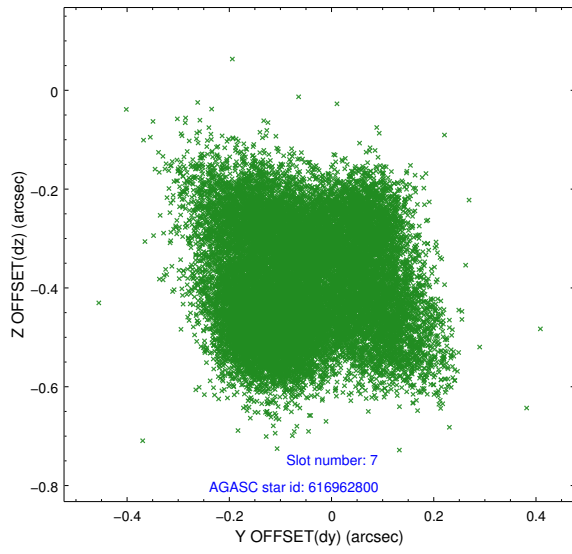
2.4.2 Slot 5



2.4.3 Slot 6

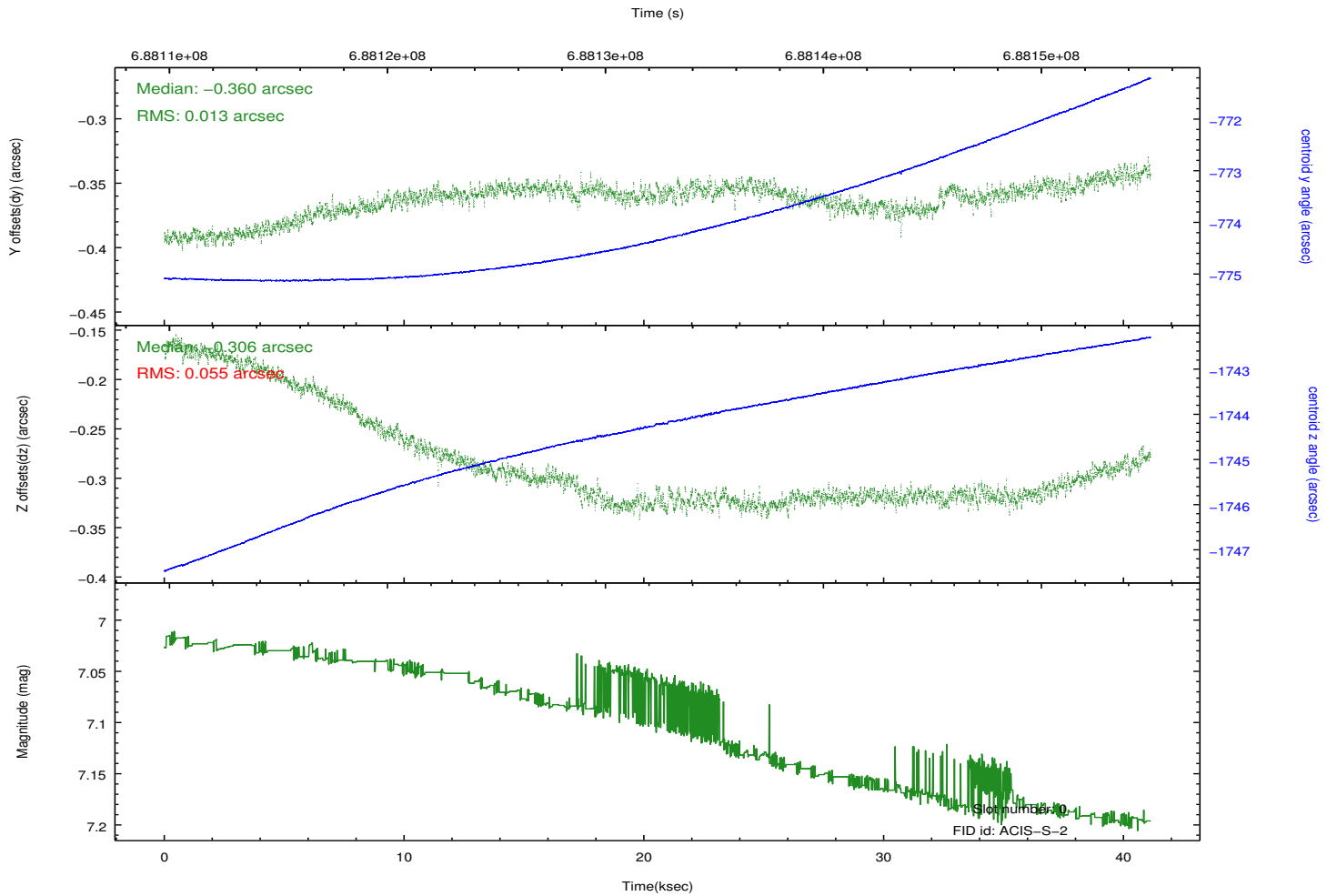
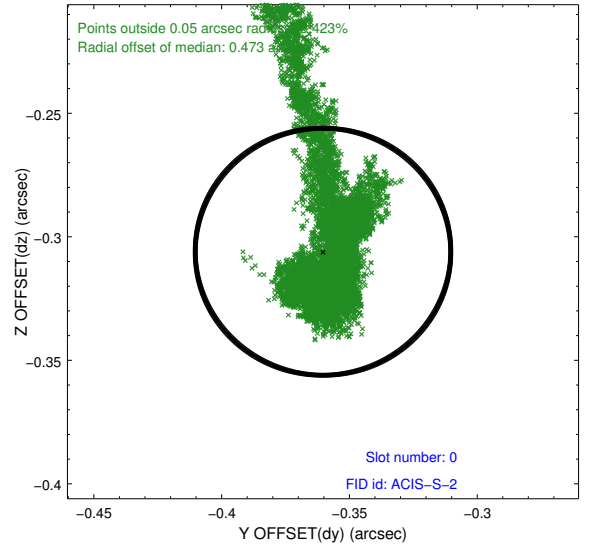
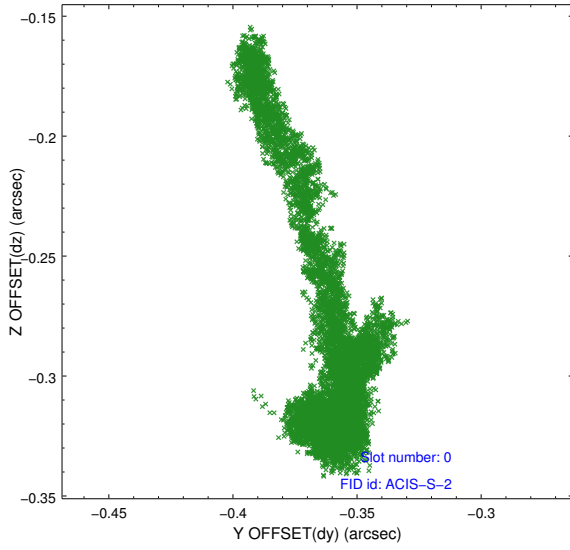


2.4.4 Slot 7

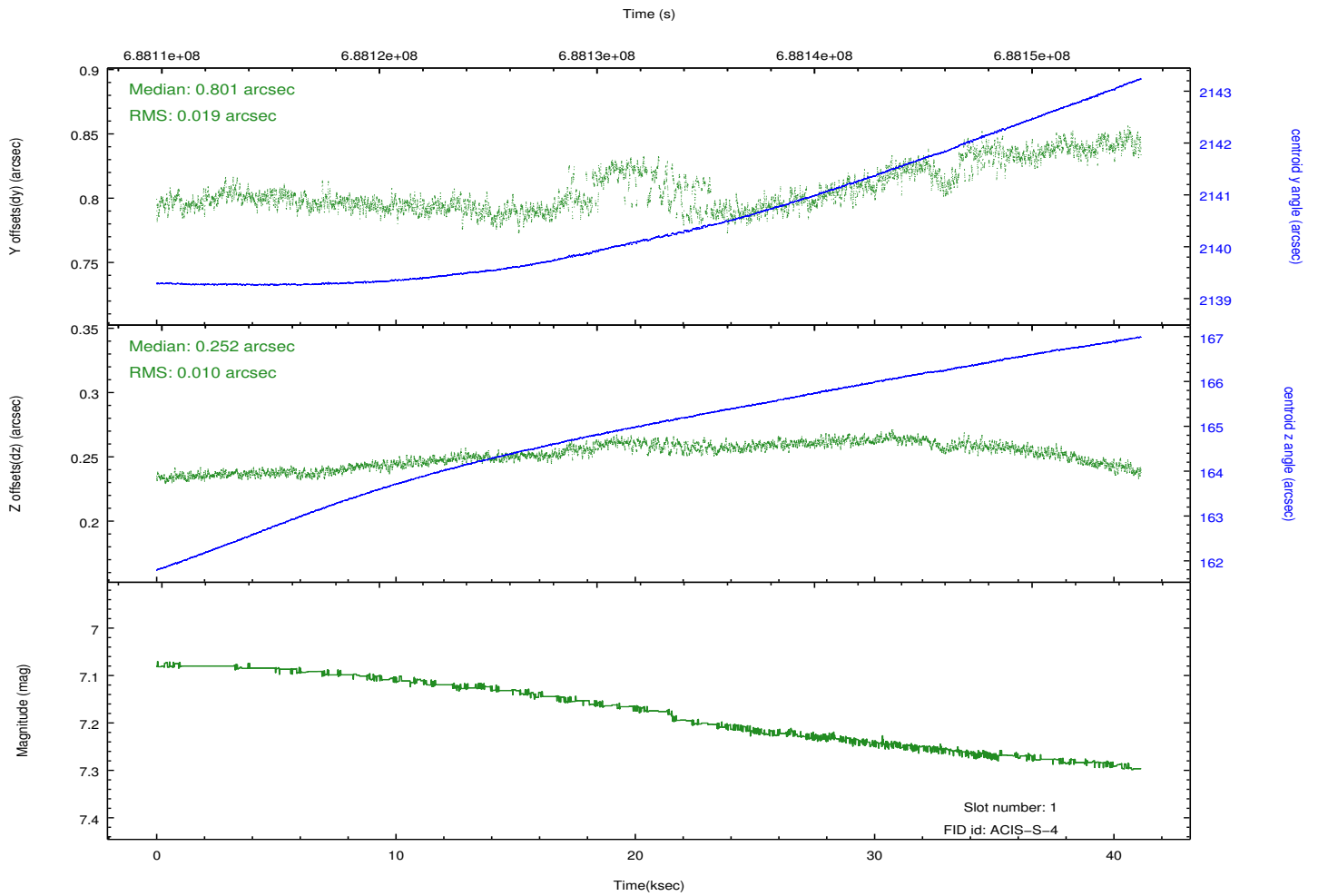
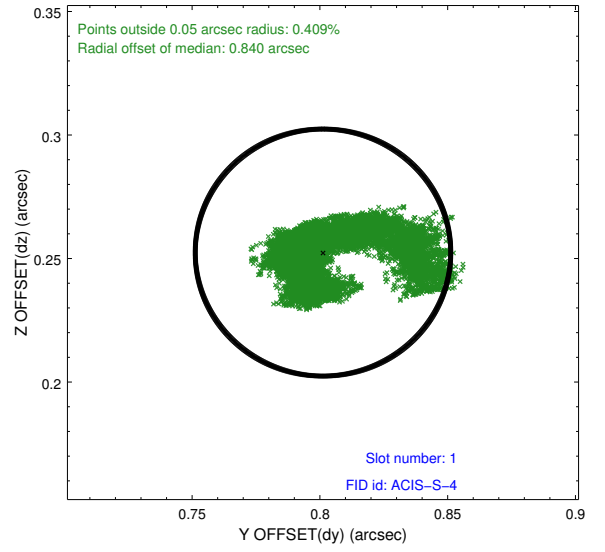
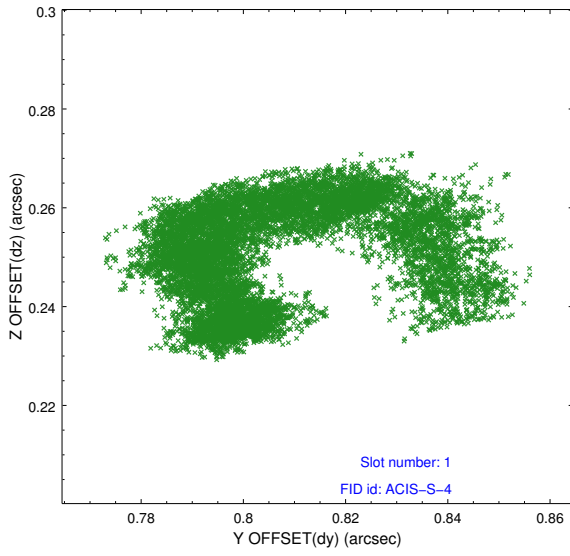


2.5 FID Slots

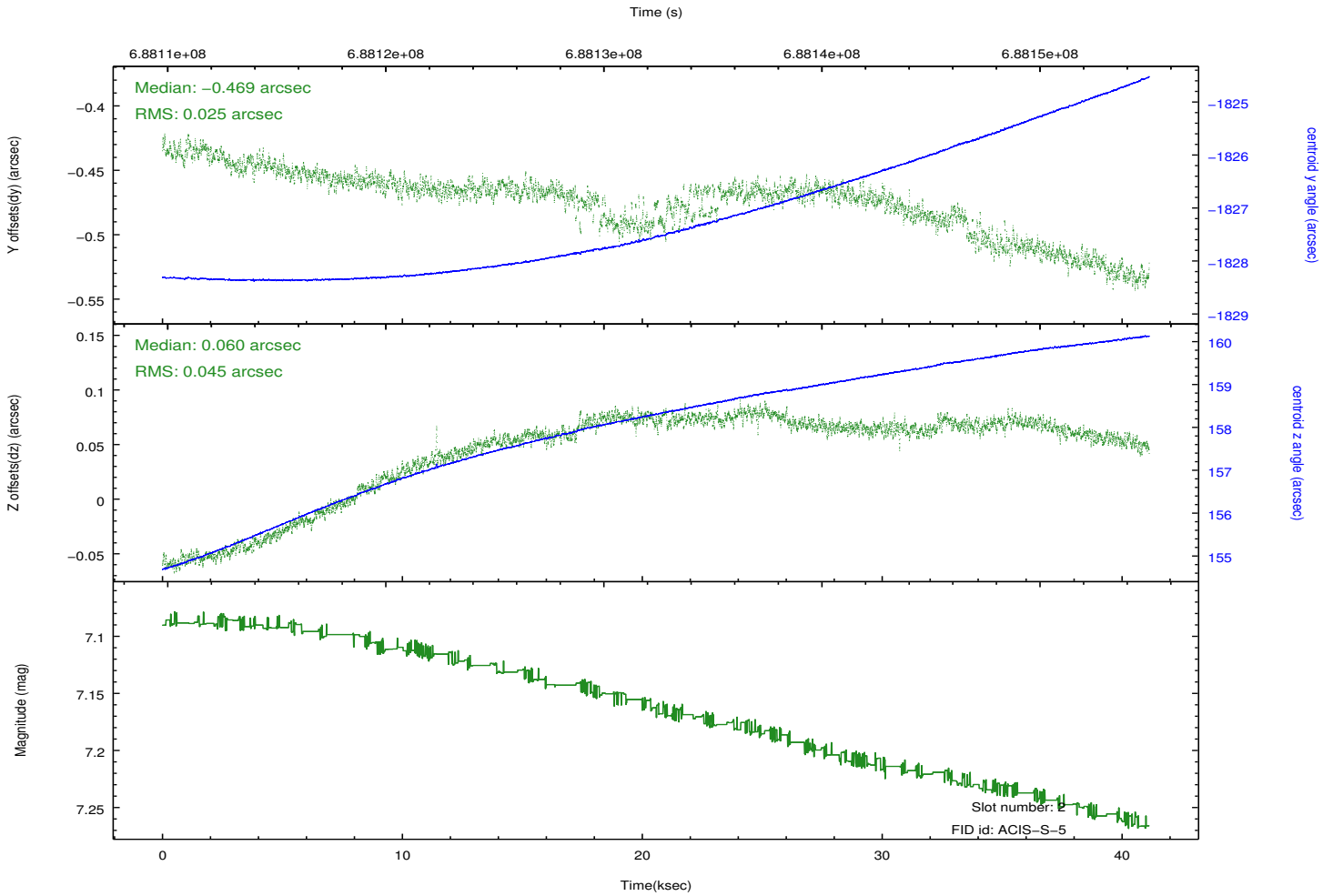
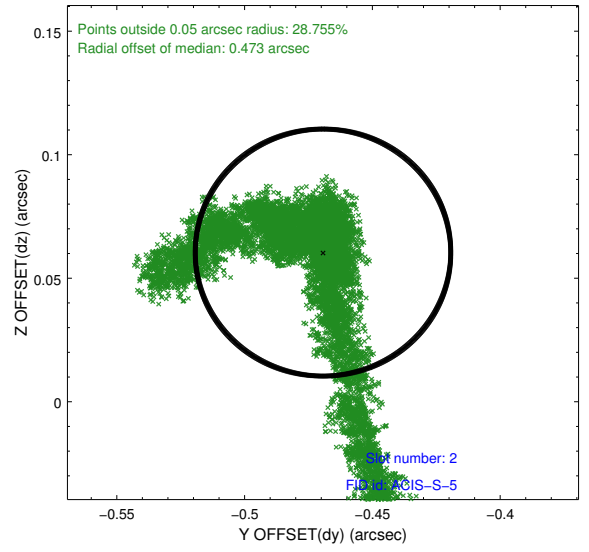
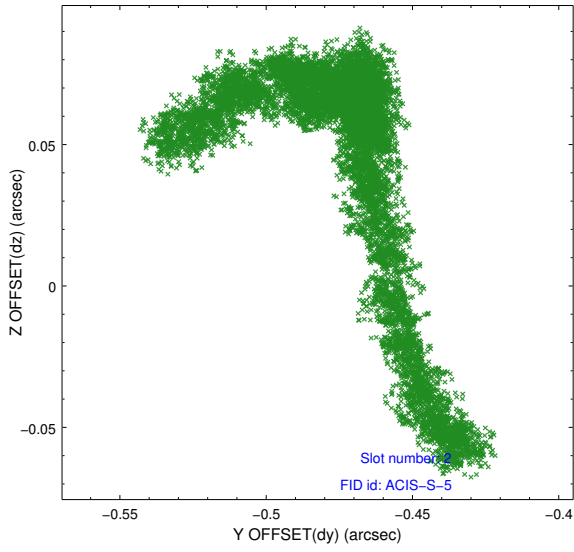
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.082

A.2 Comments

The guide star in slot 3 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.