

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 21488 - L2 Version 1
Chandra X-Ray Center

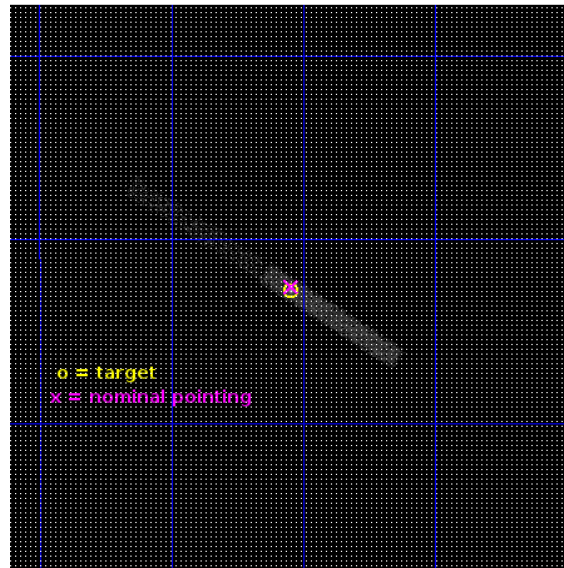
L2 Processing Date : Oct 15 2019

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 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

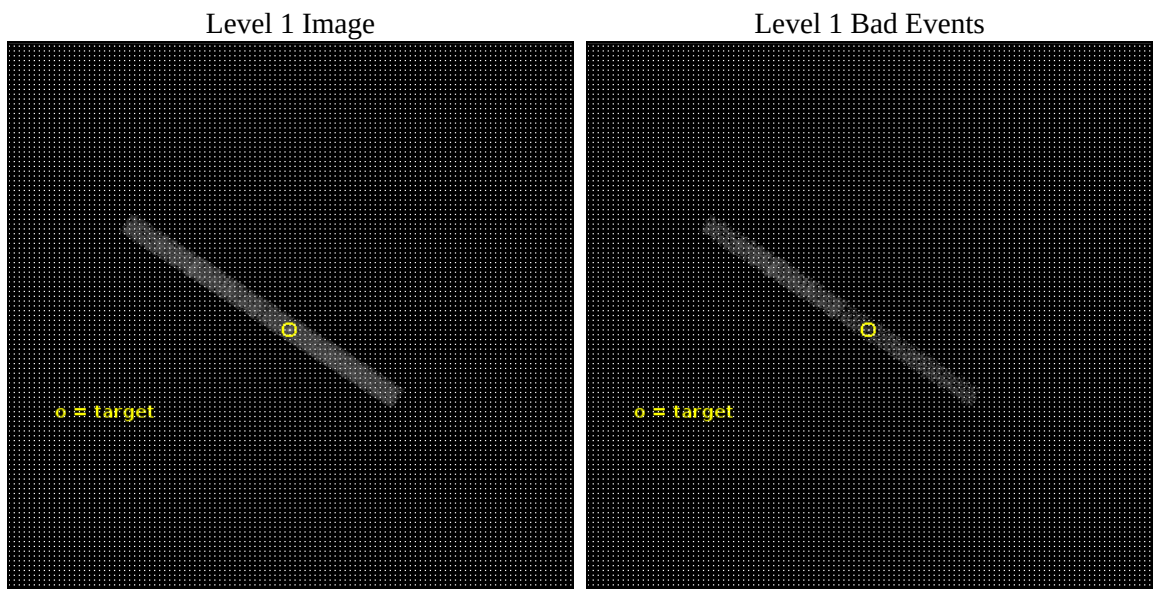
seq_num	703781	Sequence number
obs_id	21488	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC0222-234	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.261667	Observer's specified target RA [deg]
dec_targ	-23.213417	Observer's specified target Dec [deg]
ra_nom	36.260987268797	Nominal RA [deg]
dec_nom	-23.209723337799	Nominal Dec [deg]
roll_nom	34.056326974679	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10091.0	Sum of GTIs [s]
livetime	9325.5581842378	Livetime [s]
ontime6	10091.0	Sum of GTIs [s]
ontime7	10091.0	Sum of GTIs [s]
l2events	13203	Number of level 2 events



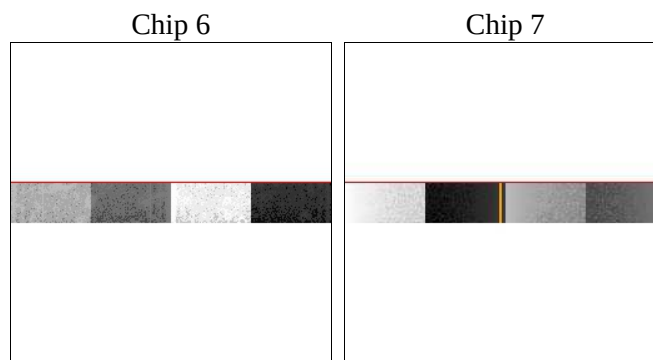
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	10091.0	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime6	10091.0	Sum of GTIs [s]
date	2019-10-16T01:16:56	Date and time of file creation	ontime7	10091.0	Sum of GTIs [s]
revision	1	Processing version of data	l1events	33442	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7
level 1 events	13641	19801
rejected events	12080	7560
rejected %	88%	38%

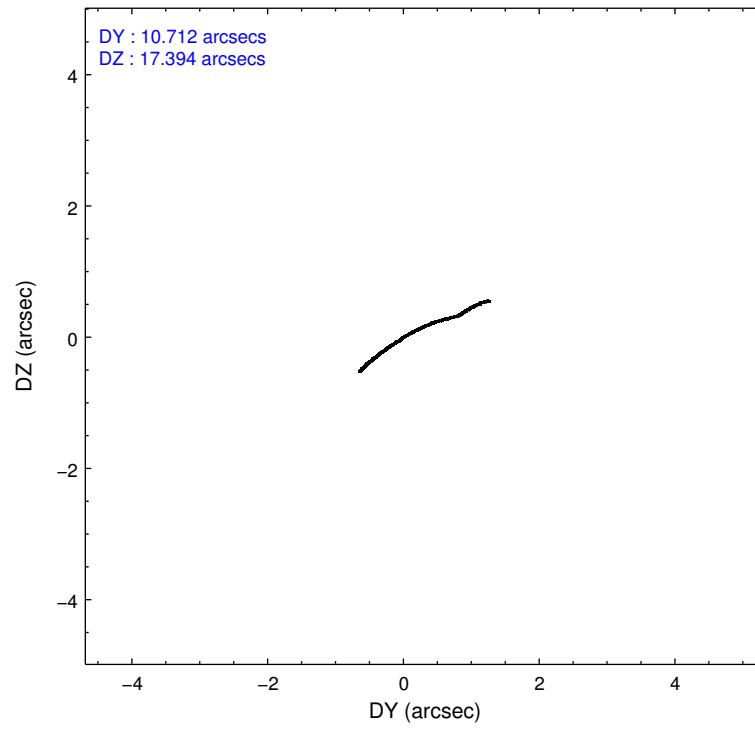
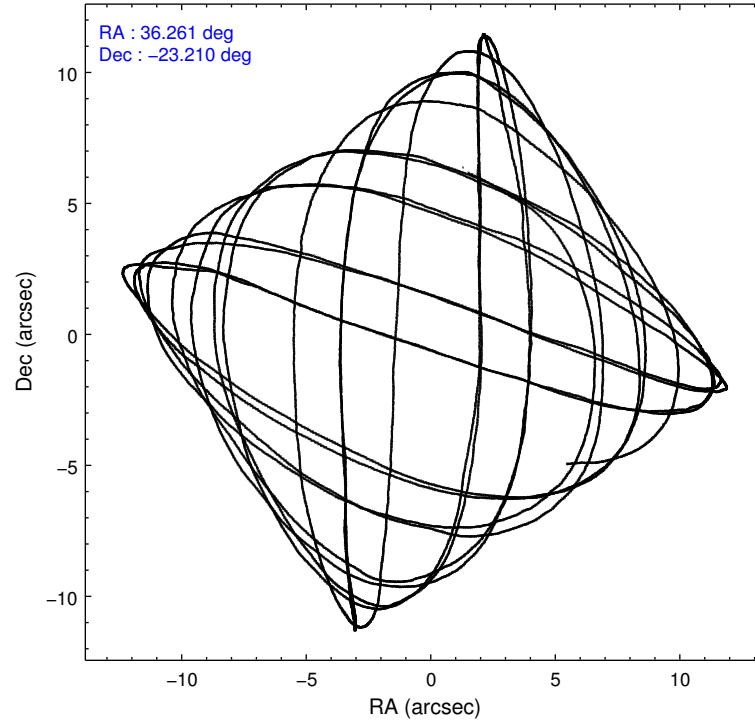
	ccd 6	ccd 7
grade 0 events	385	2165
	2%	10%
grade 1 events	5	63
	0%	0%
grade 2 events	271	2729
	1%	13%
grade 3 events	282	1397
	2%	7%
grade 4 events	286	1409
	2%	7%
grade 5 events	446	1515
	3%	7%
grade 6 events	337	4542
	2%	22%
grade 7 events	11629	5981
	85%	30%

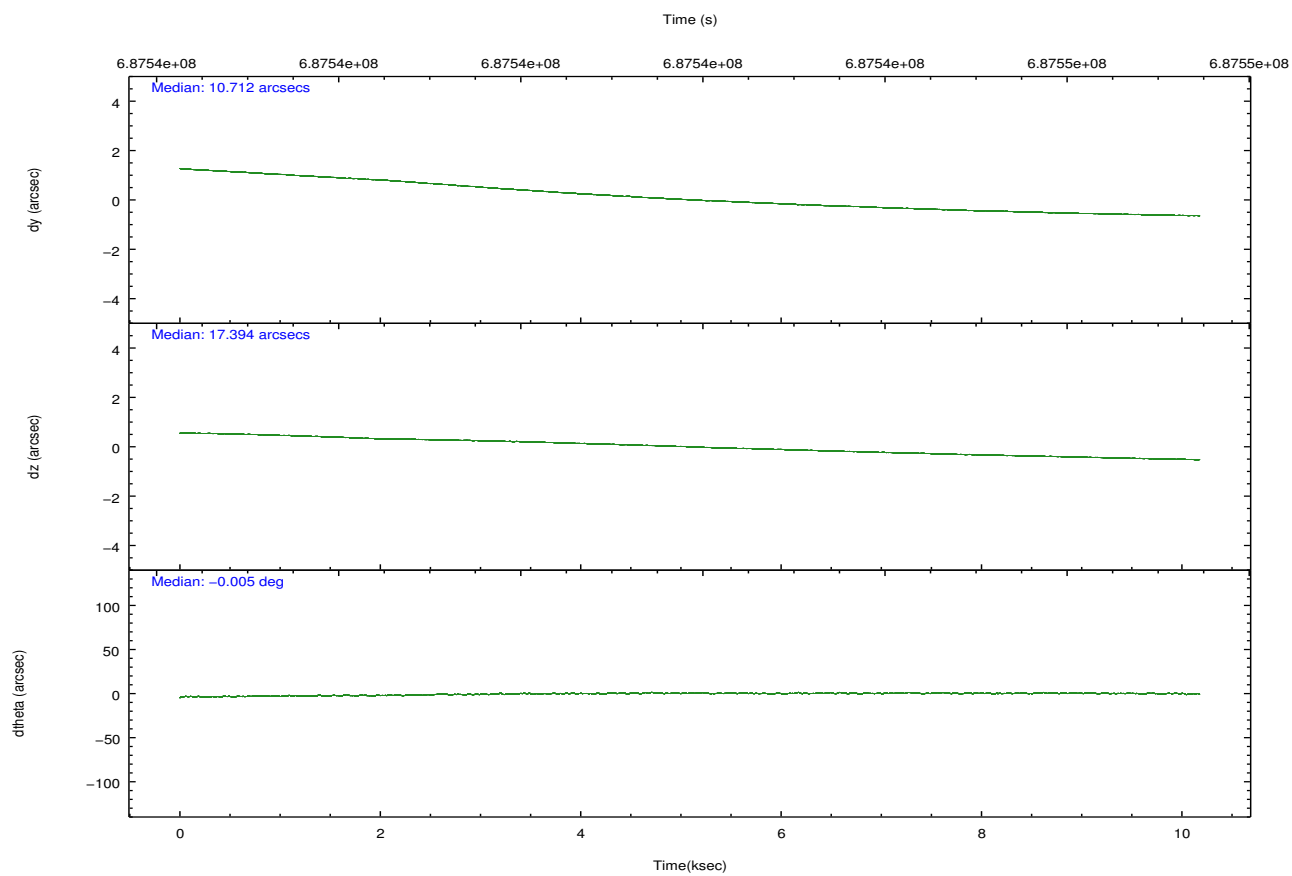
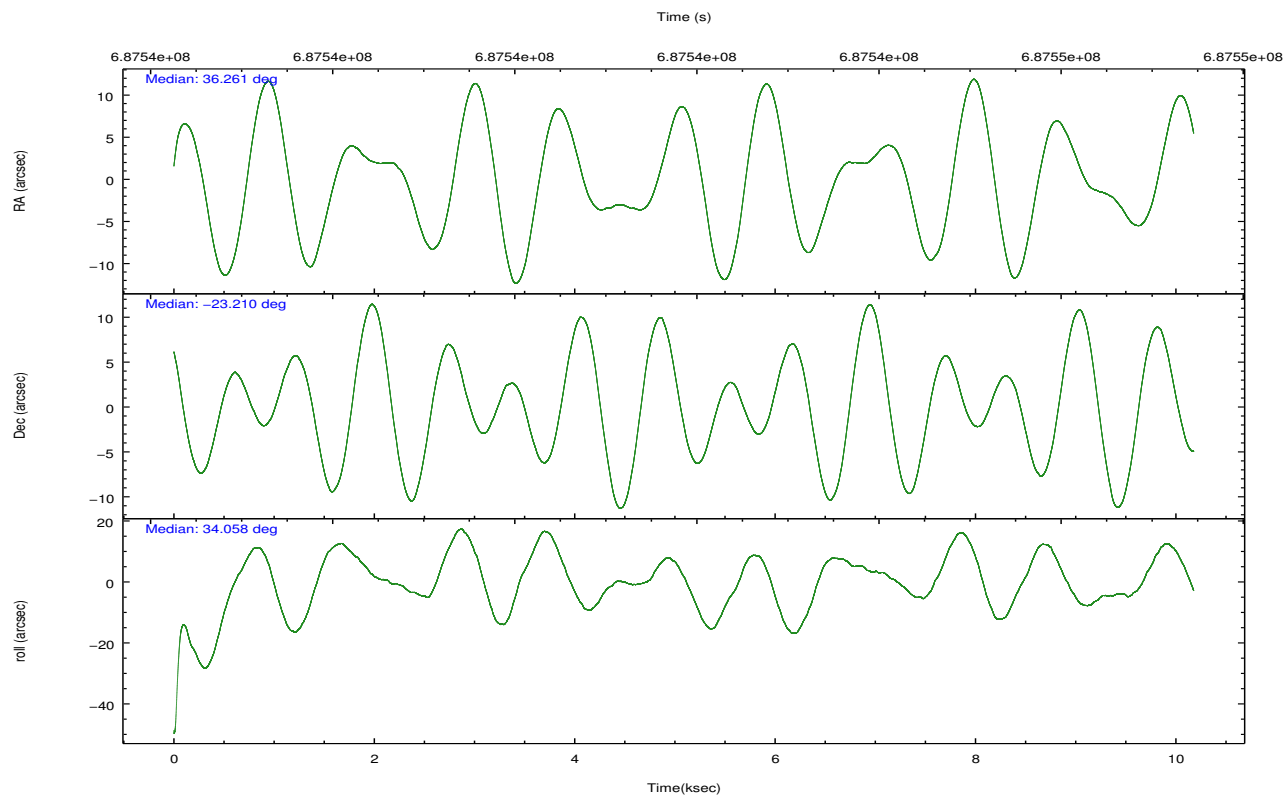
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-67	ACIS-67
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	36.248242	36.26098726879657
[deg] Pointing Dec	-23.234563	-23.20972333779917
[deg] Pointing Roll	33.894710	34.05632697467912
[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)	687536916.184000	687536183.67693
Observation start date	2019-10-15T14:27:27	2019-10-15T14:16:23
[s] Observation end time (MET)	687546916.184000	687547625.2401299
Observation end date	2019-10-15T17:14:07	2019-10-15T17:27:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



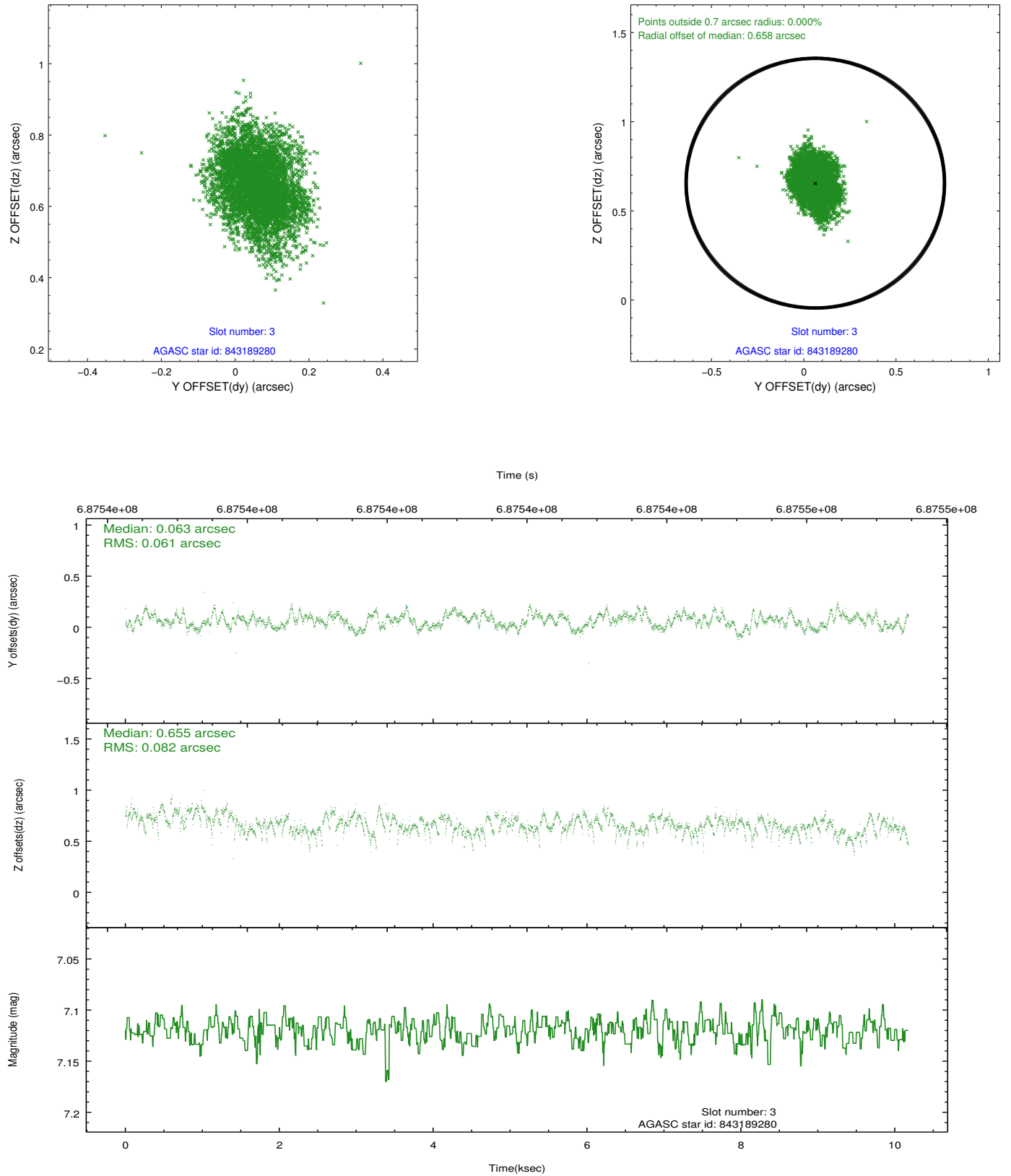


Slot Statistics

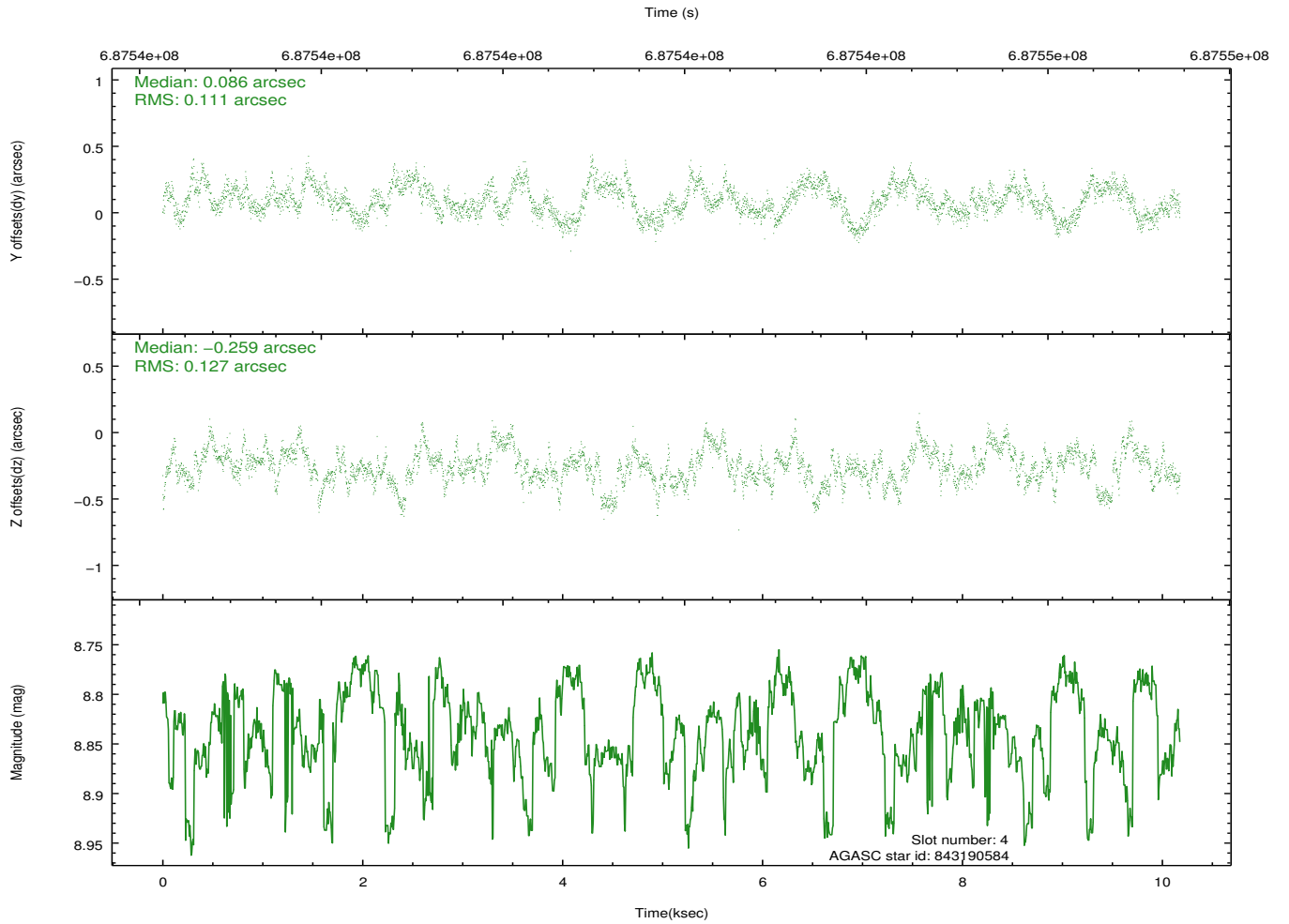
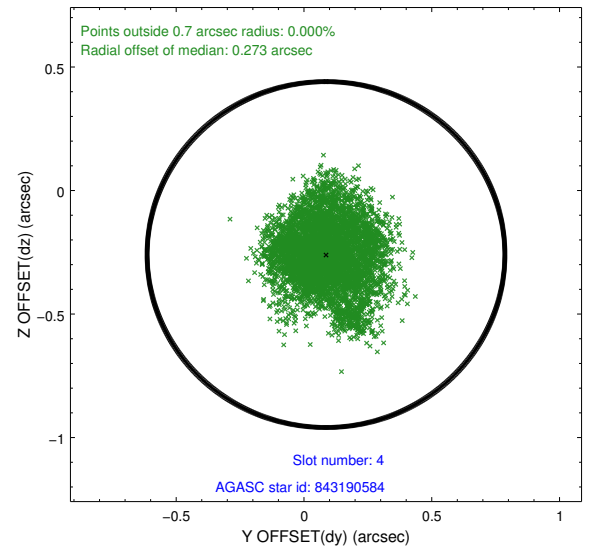
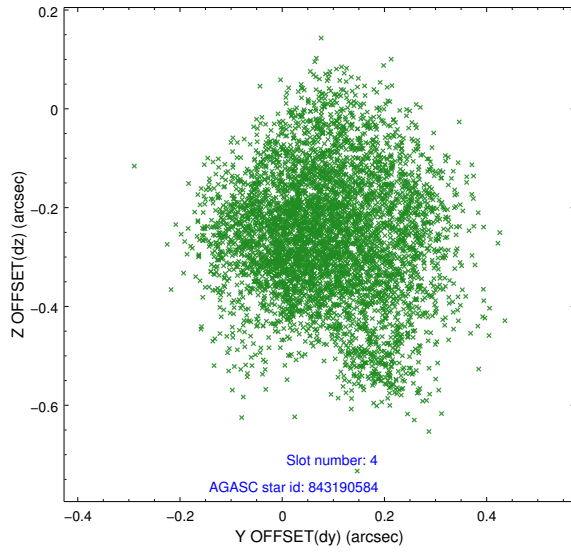
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2483	1.000	-0.252	-0.174	0.016	0.023	0.000000	0.000000	-763.92	-1739
1	FID		ACIS-S-4	7.16	2483	1.000	0.661	0.167	0.009	0.017	0.000000	0.000000	2150.00	169
2	FID		ACIS-S-5	7.13	2483	1.000	-0.440	0.014	0.019	0.030	0.000000	0.000000	-1816.32	163
3	GUIDE	used	843189280	7.12	4966	1.000	0.063	0.655	0.108	0.176	36.387333	-23.972432	-1102.03	-2459
4	GUIDE	used	843190584	8.84	4959	1.000	0.086	-0.259	0.183	0.286	36.692124	-22.969594	1753.78	-31
5	GUIDE	used	843191608	8.75	4964	1.000	-0.097	-0.520	0.147	0.226	36.561558	-22.918104	1497.83	364
6	GUIDE	used	843192616	9.71	4948	1.000	0.515	0.433	0.337	0.521	36.294956	-24.031638	-1471.58	-2466
7	GUIDE	used	843186504	9.89	4784	1.000	-0.597	-0.279	0.371	0.567	36.120739	-22.504906	1112.57	2415

2.4 Star Slots

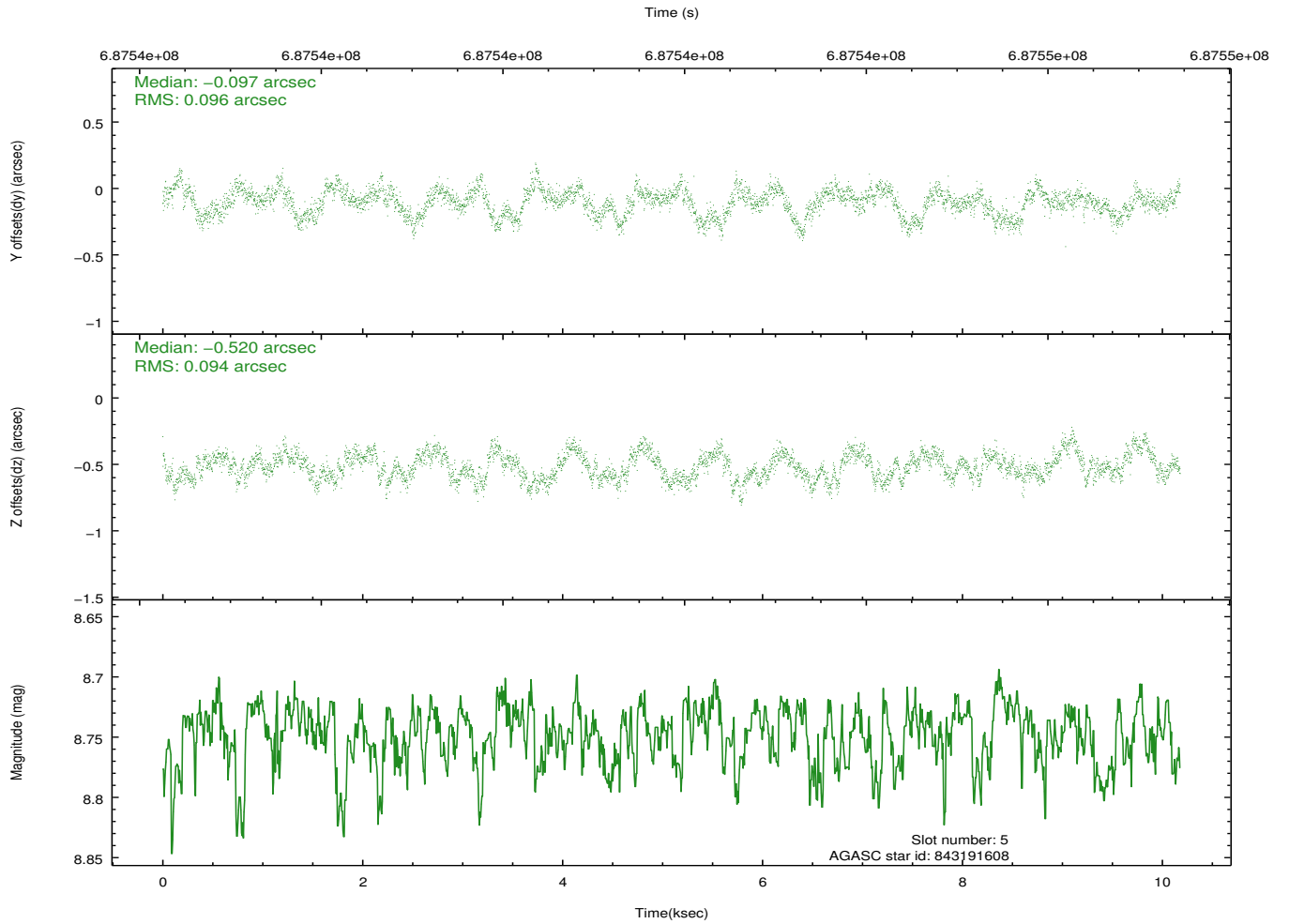
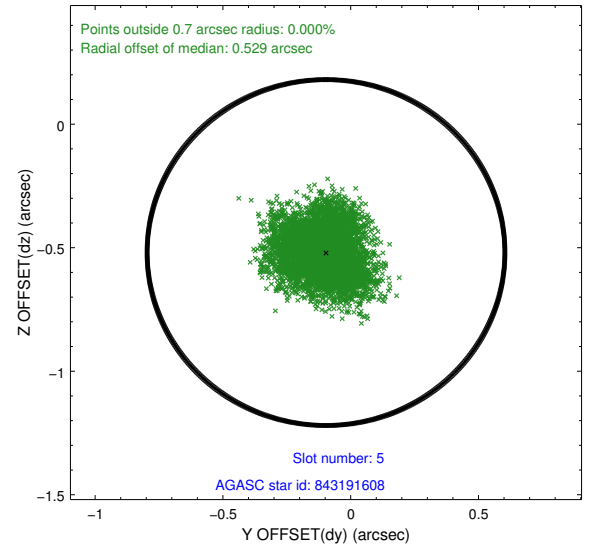
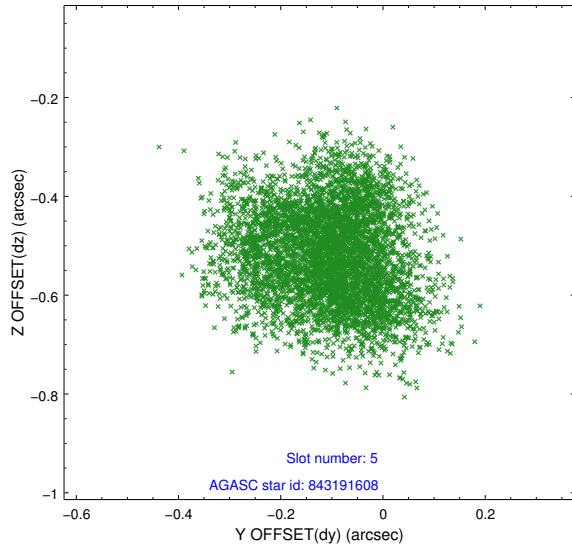
2.4.1 Slot 3



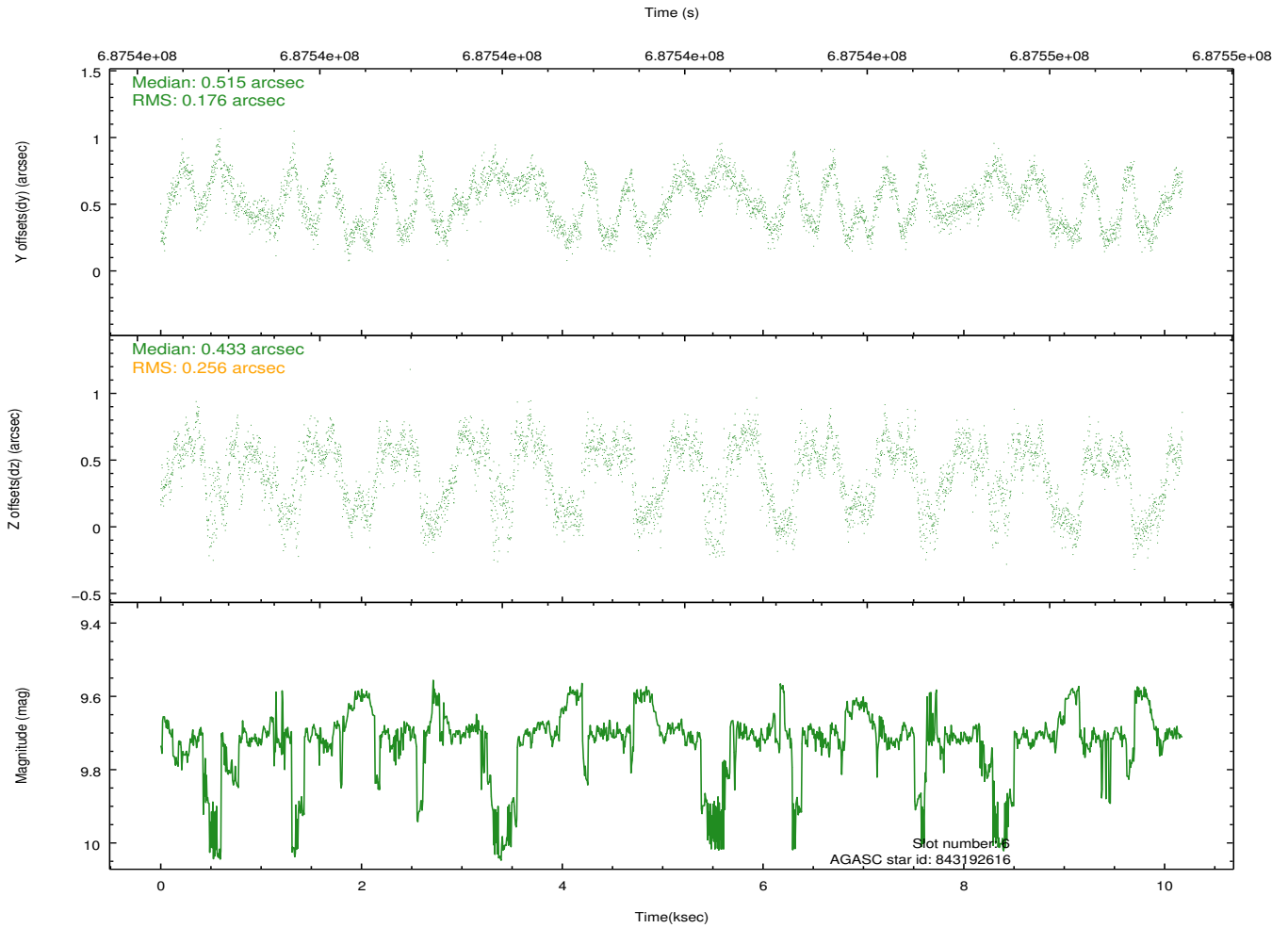
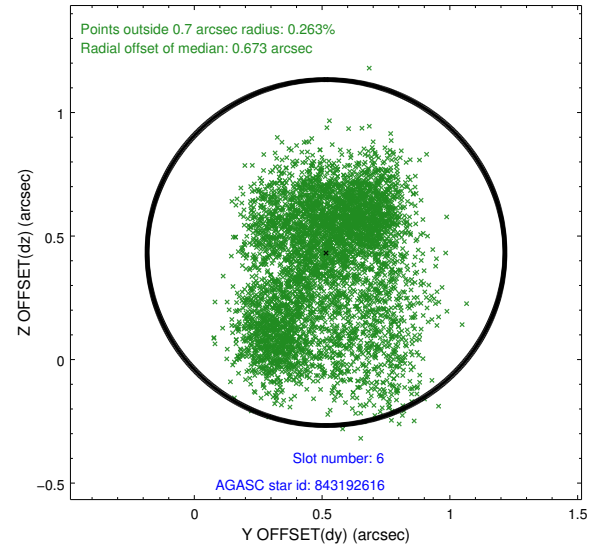
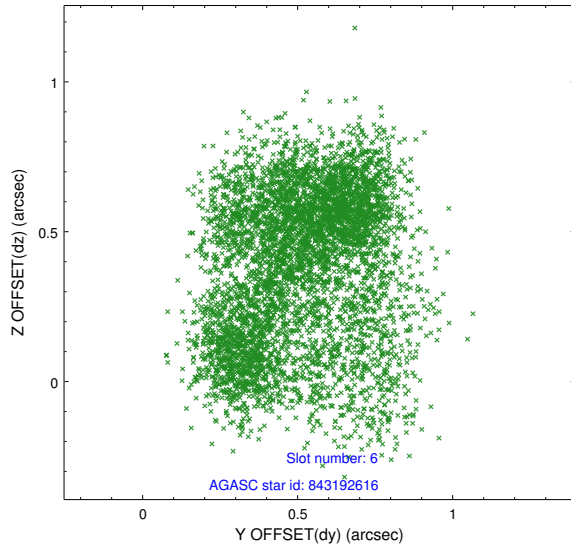
2.4.2 Slot 4



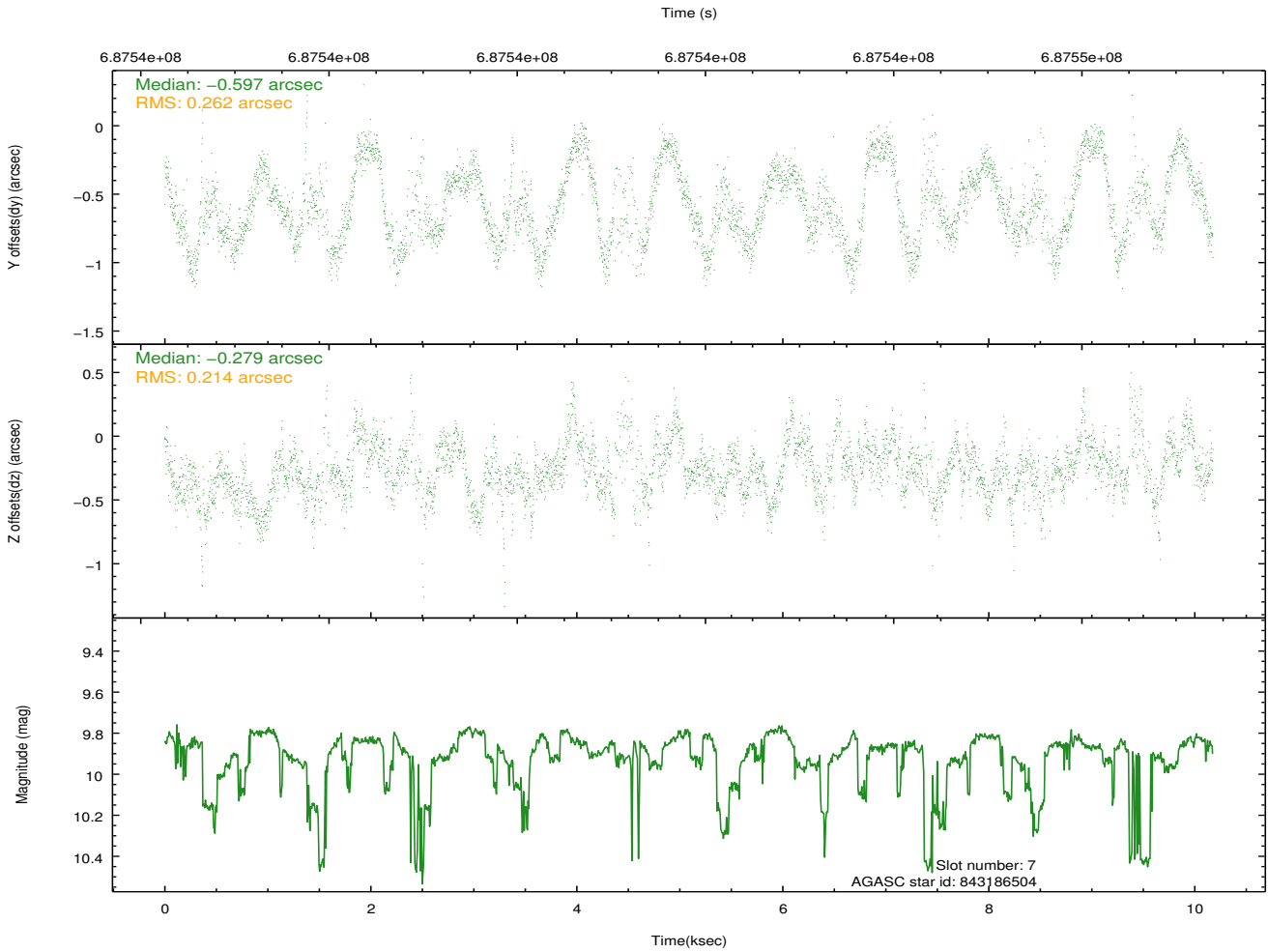
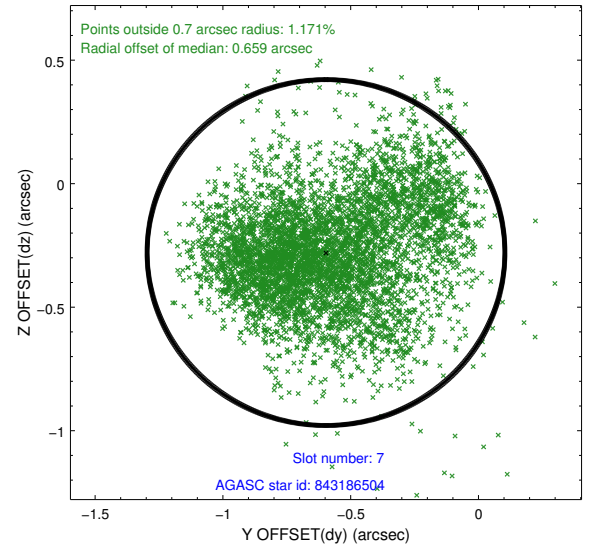
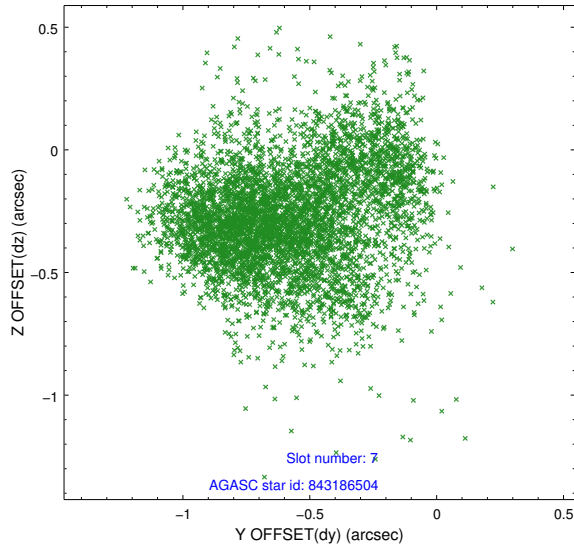
2.4.3 Slot 5



2.4.4 Slot 6

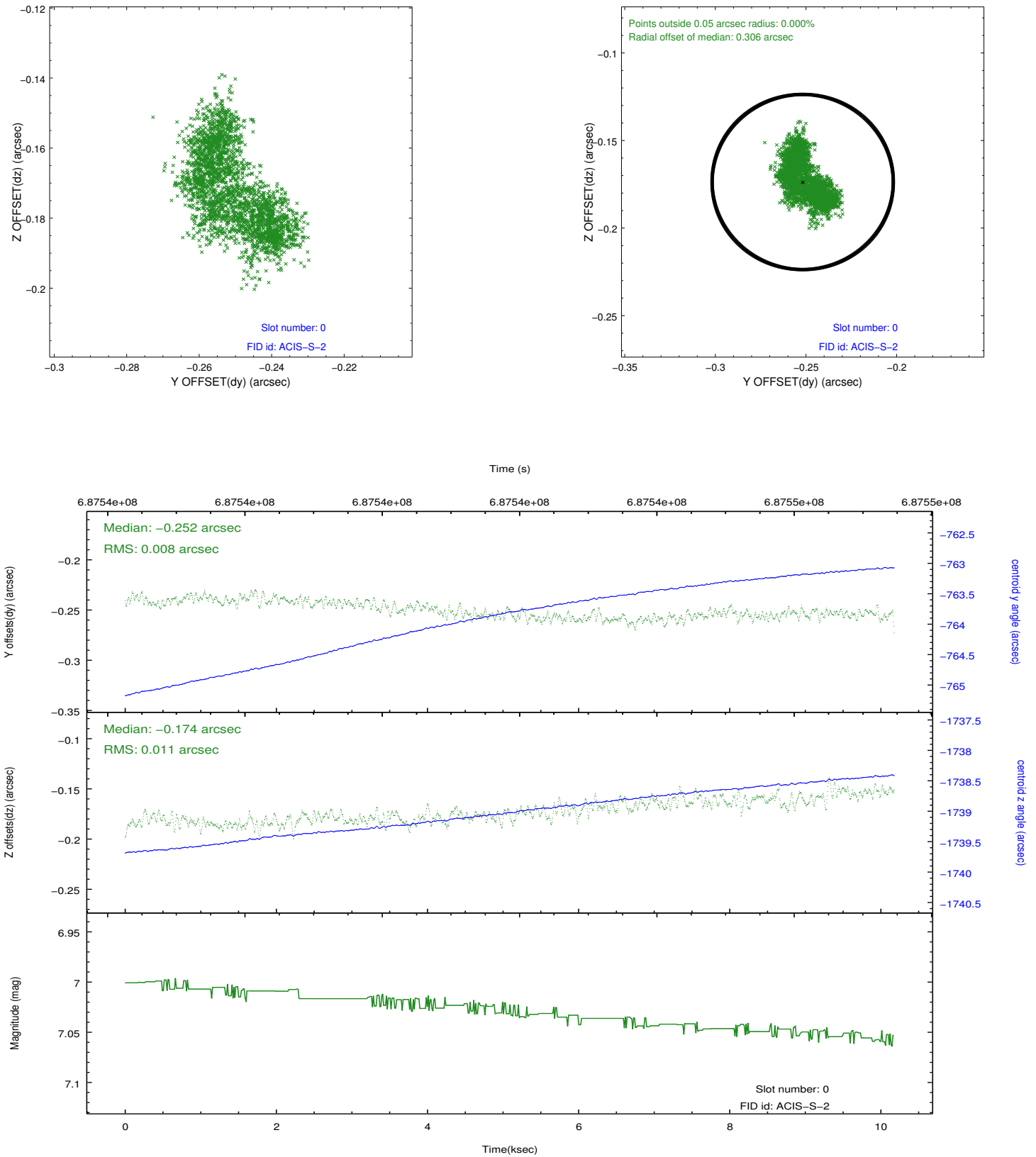


2.4.5 Slot 7

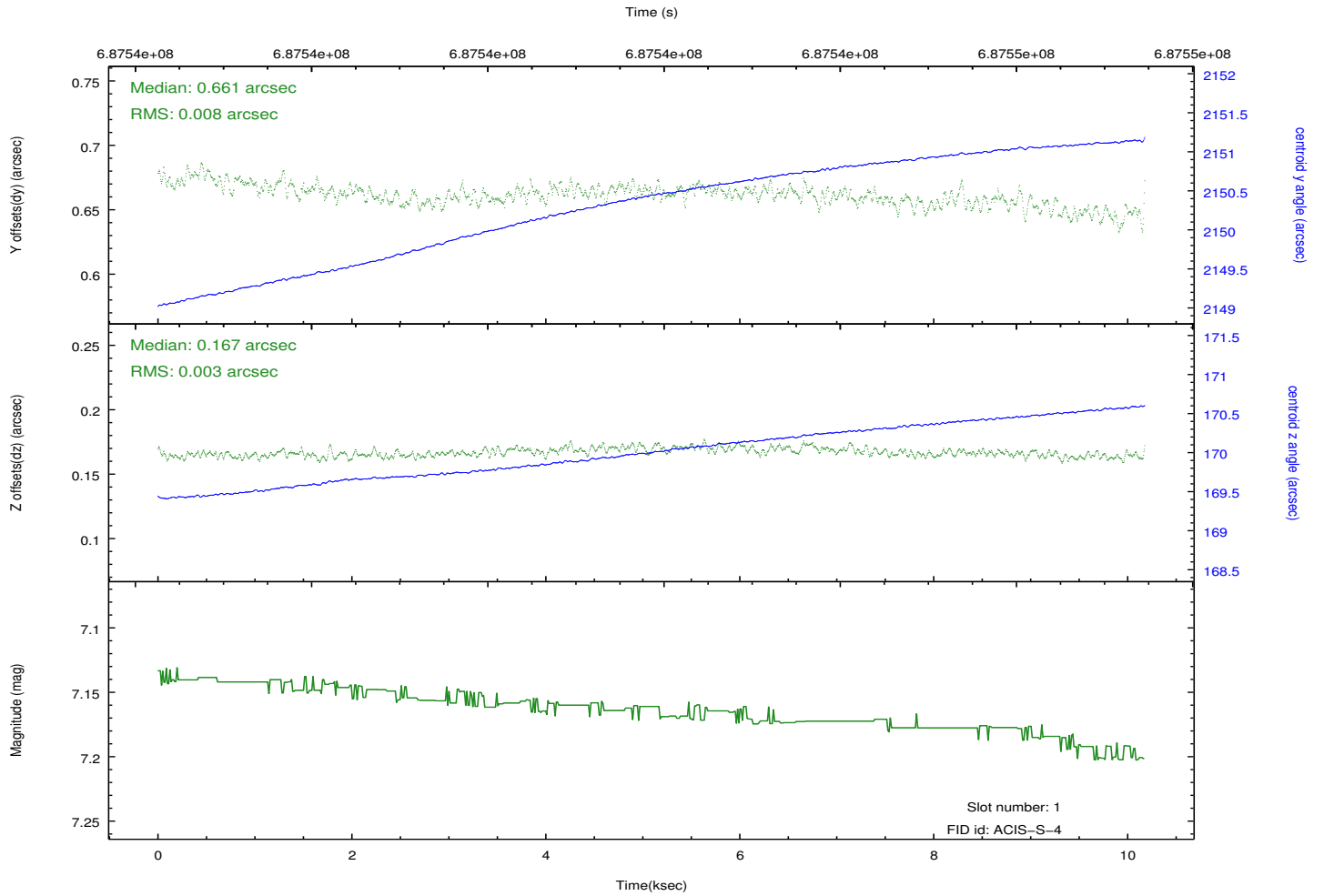
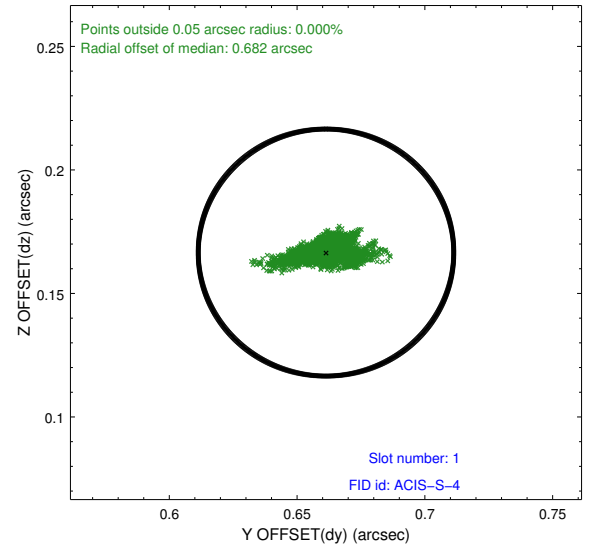
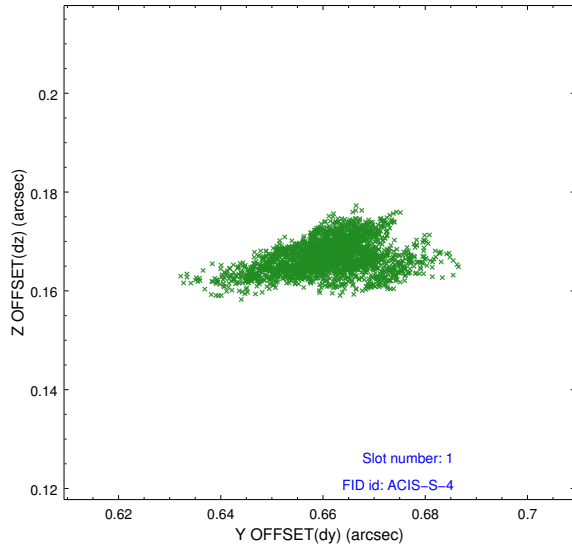


2.5 FID Slots

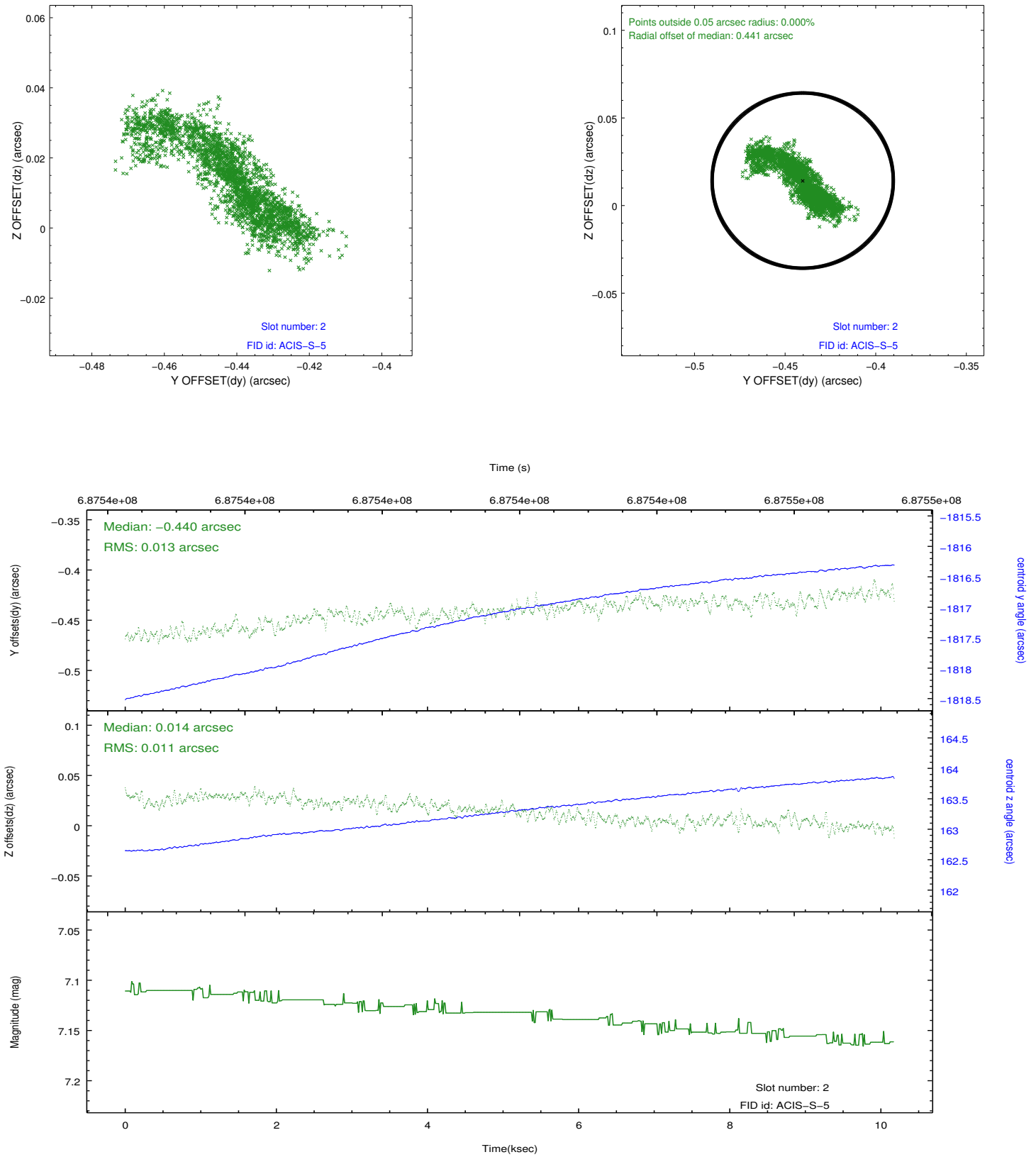
2.5.1 Slot 0



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)	2019.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.091

A.2 Comments