

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 17465 - L2 Version 1
Chandra X-Ray Center

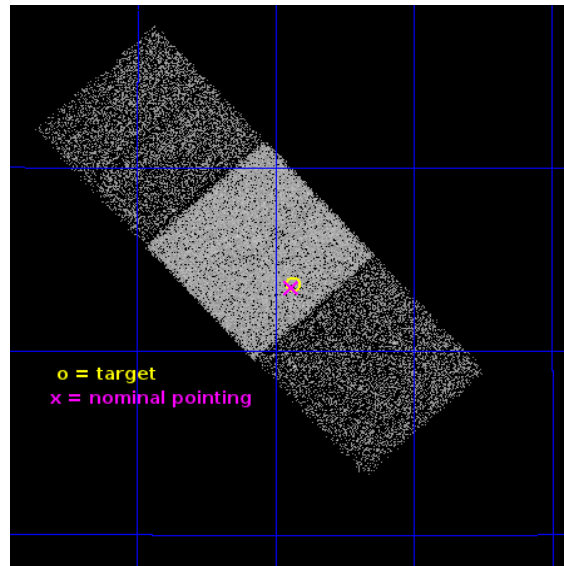
L2 Processing Date : Apr 22 2016

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

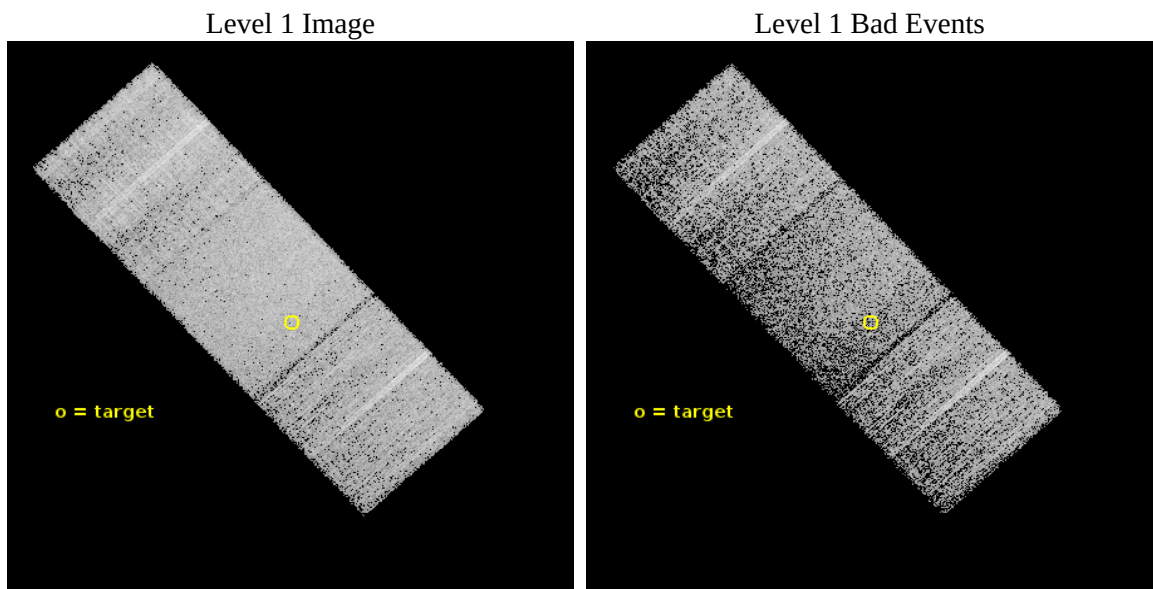
seq_num	703142	Sequence number
obs_id	17465	Observation id
title	Intrinsic X-ray Weakness and the Launching of Powerful Quasar Winds	
observer	Gordon Garmire	Principal investigator
object	LBQS 1203+1530	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.609167	Observer's specified target RA [deg]
dec_targ	15.226556	Observer's specified target Dec [deg]
ra_nom	181.61054714138	Nominal RA [deg]
dec_nom	15.224199516848	Nominal Dec [deg]
roll_nom	227.43946336997	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12108.600093246	Sum of GTIs [s]
livetime	11950.392318806	Livetime [s]
ontime6	12105.459043026	Sum of GTIs [s]
ontime7	12108.600093246	Sum of GTIs [s]
ontime8	12108.600093246	Sum of GTIs [s]
l2events	55012	Number of level 2 events



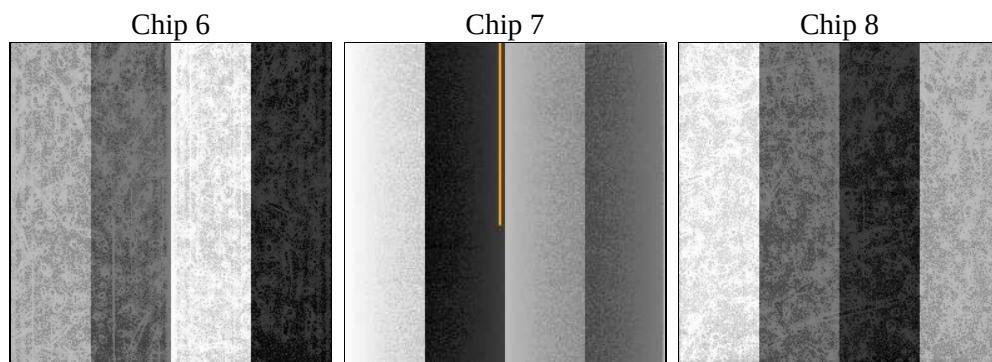
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	12108.600093246	Sum of GTIs [s]
caldbver	4.7.1	 	ontime6	12105.459043026	Sum of GTIs [s]
date	2016-04-22T20:20:04	Date and time of file creation	ontime7	12108.600093246	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	12108.600093246	Sum of GTIs [s]
			l1events	264737	Number of level 1 events

2.1.4 Events

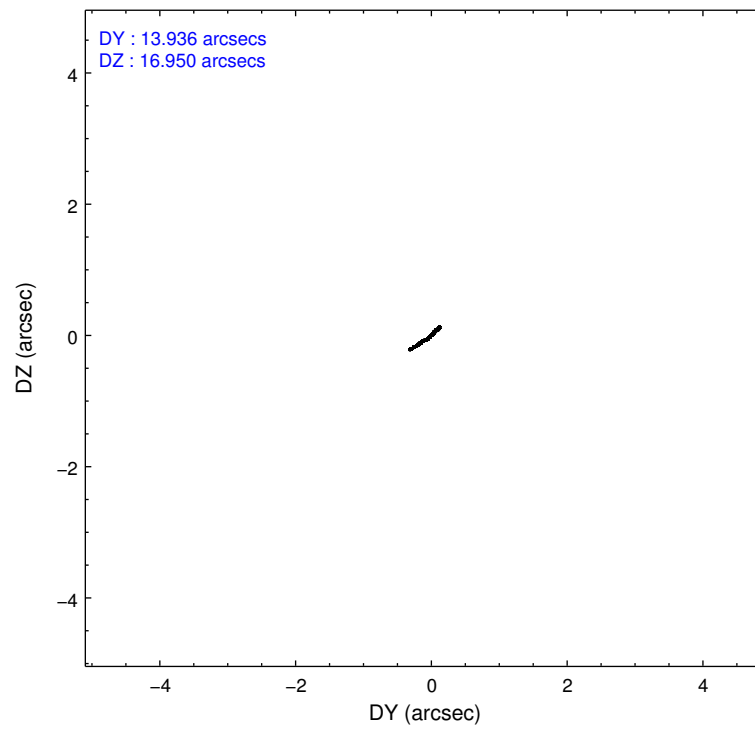
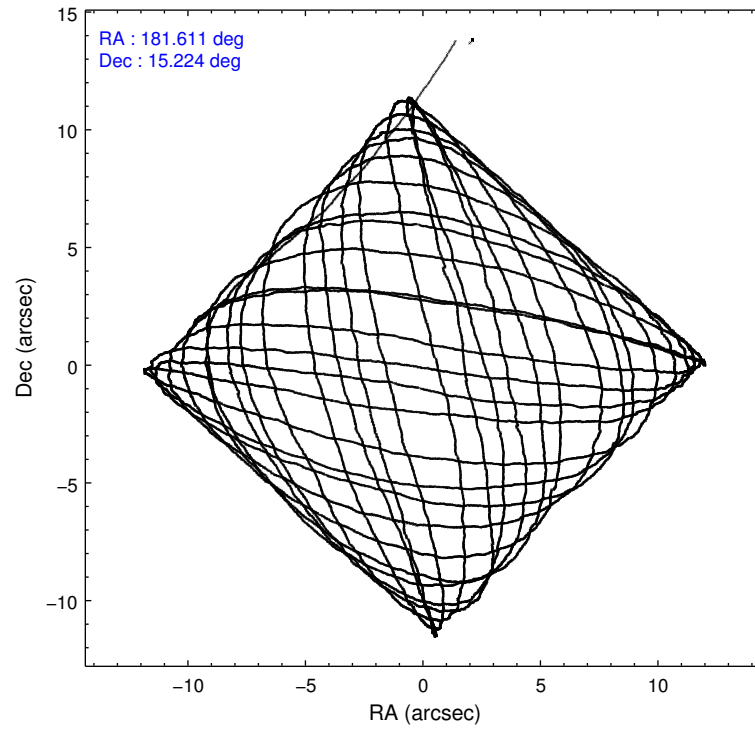
	ccd 6	ccd 7	ccd 8
level 1 events	73867	94892	95978
rejected events	65435	54175	71451
rejected %	88%	57%	74%

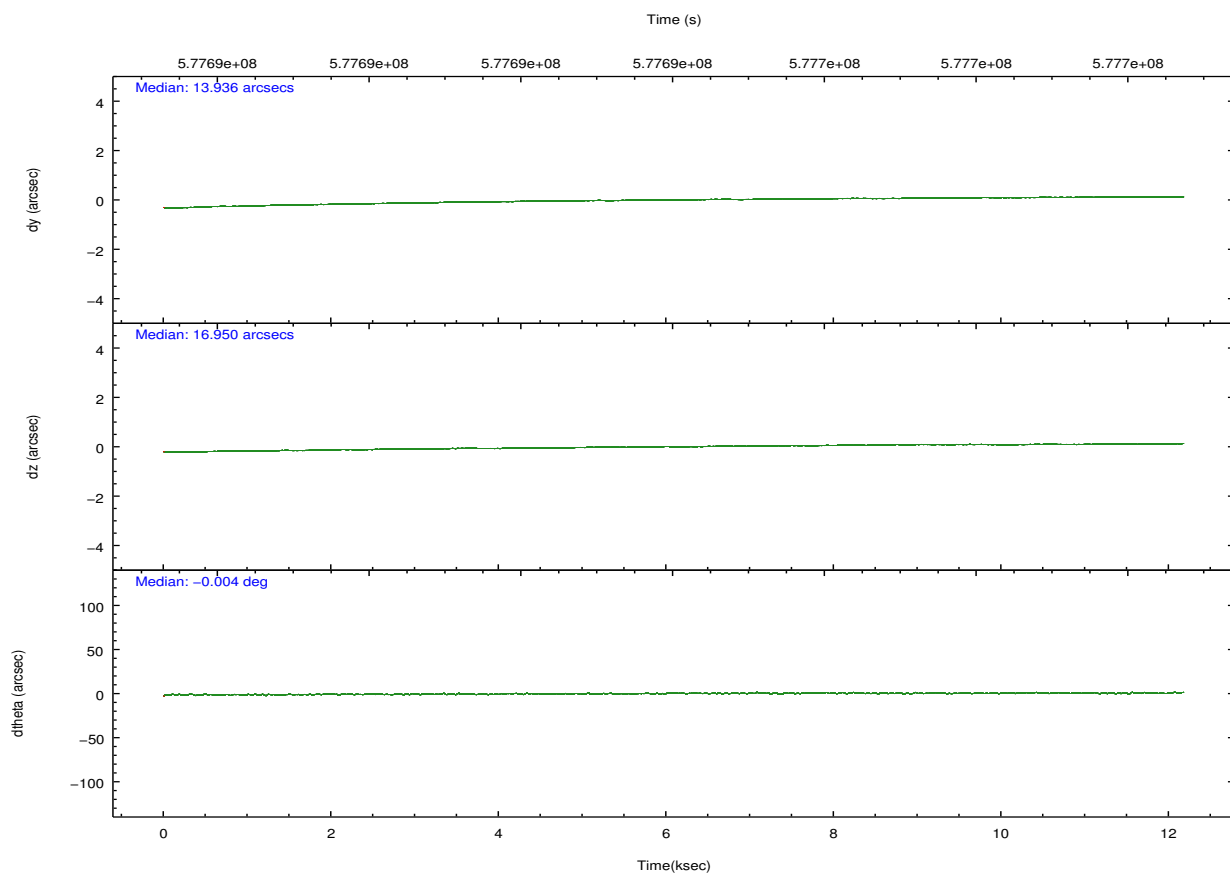
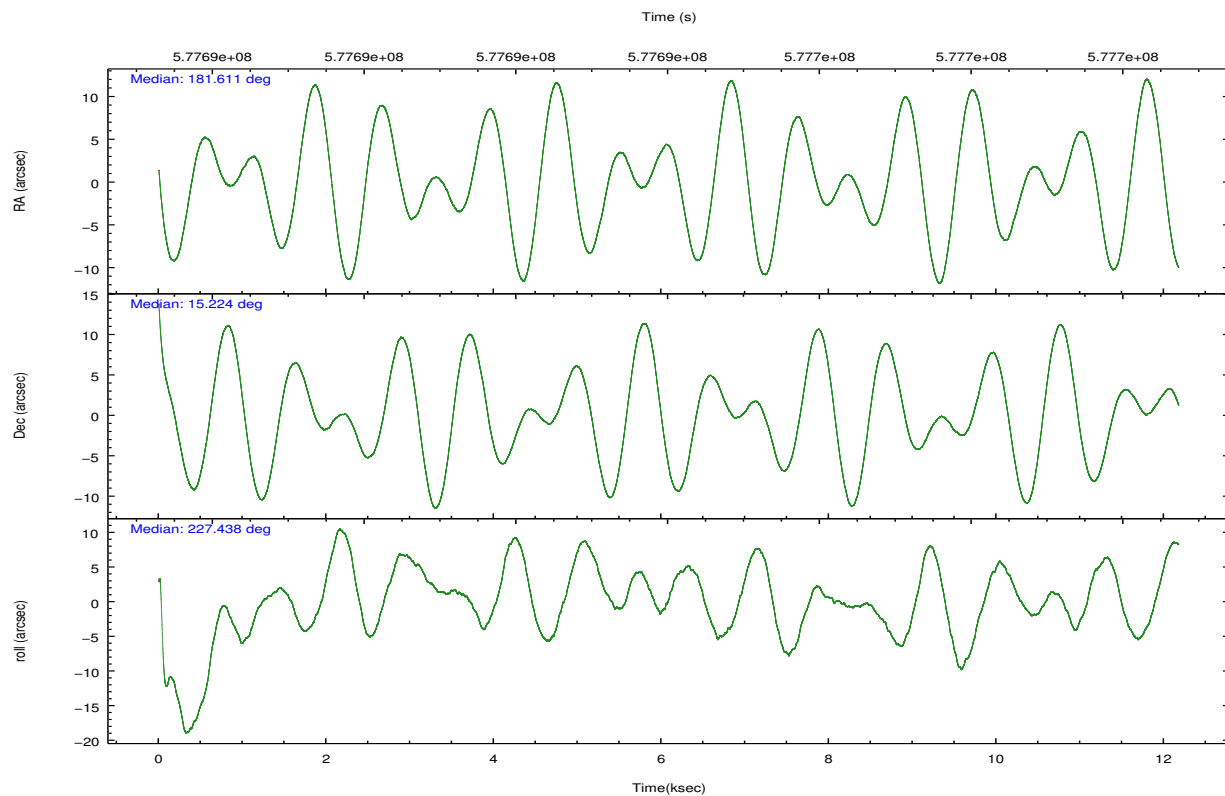
	ccd 6	ccd 7	ccd 8
grade 0 events	2695	3346	6784
	3%	3%	7%
grade 1 events	38	106	76
	0%	0%	0%
grade 2 events	2036	8594	6143
	2%	9%	6%
grade 3 events	818	3147	2484
	1%	3%	2%
grade 4 events	823	3112	2375
	1%	3%	2%
grade 5 events	3454	9141	5313
	4%	9%	5%
grade 6 events	2064	22543	6755
	2%	23%	7%
grade 7 events	61939	44903	66048
	83%	47%	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	181.616381	181.6105471413832	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.251058	15.22419951684825	Alternating exposures requested	N	N
[deg] Pointing Roll	227.281282	227.4394633699673	[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)	577688119.184000	577686422.83997			
Observation start date	2016-04-22T04:54:11	2016-04-22T04:27:02			
[s] Observation end time (MET)	577700119.184000	577700708.77829			
Observation end date	2016-04-22T08:14:11	2016-04-22T08:25:08			
Read mode	TIMED	TIMED			

2.3 Aspect



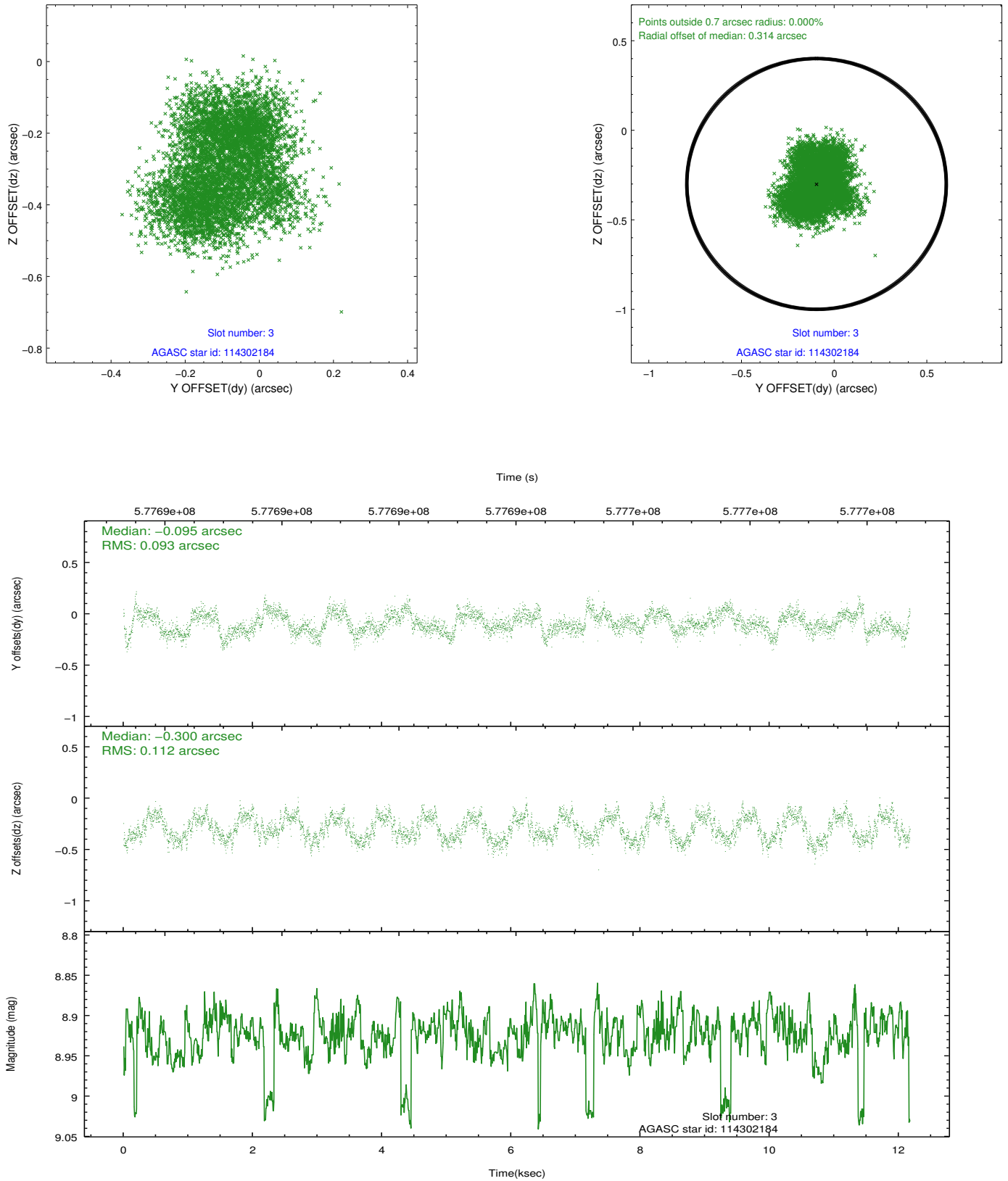


Slot Statistics

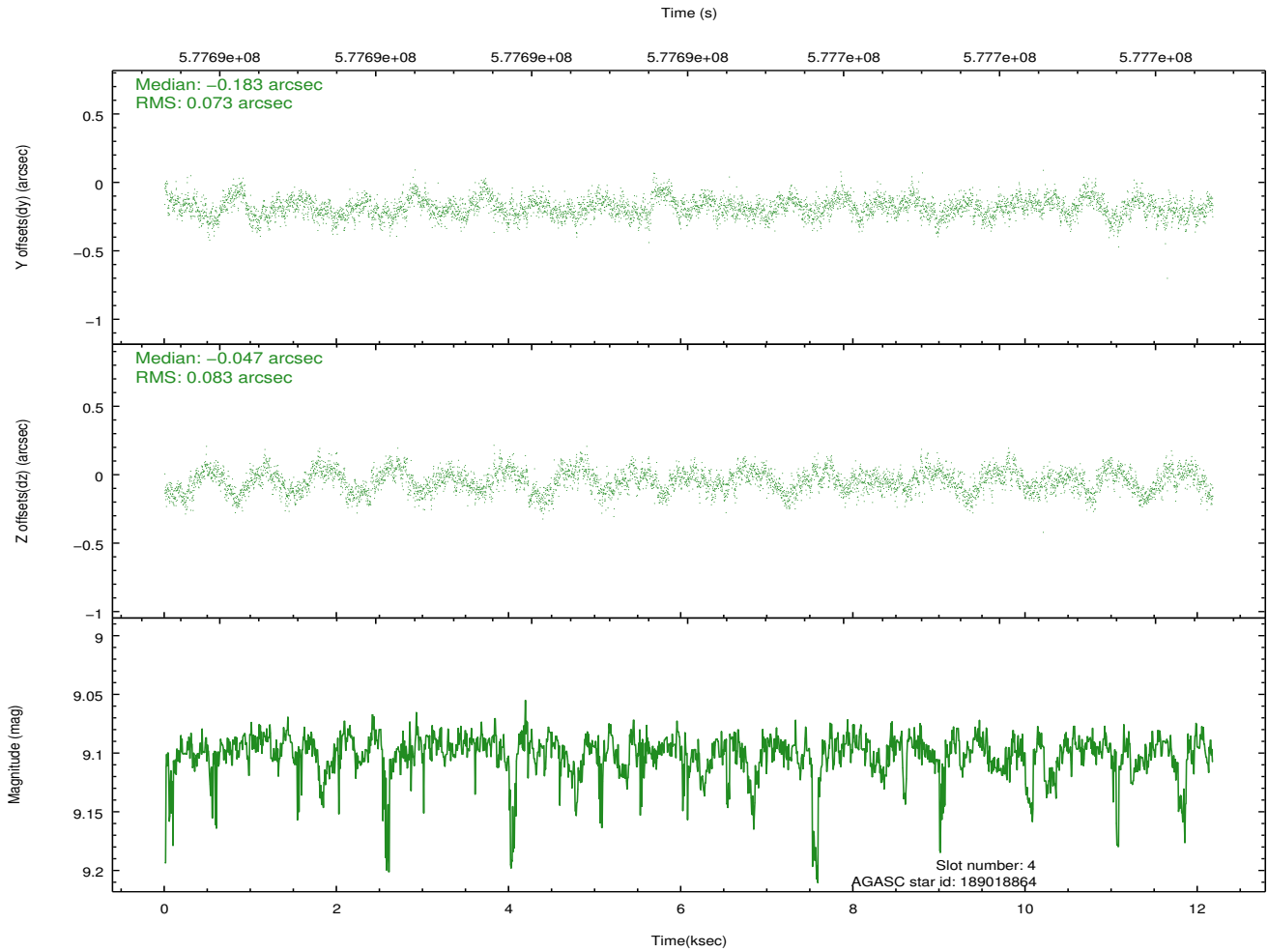
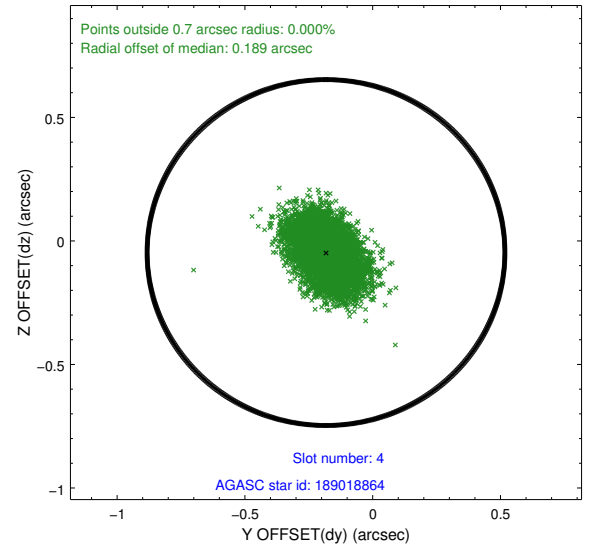
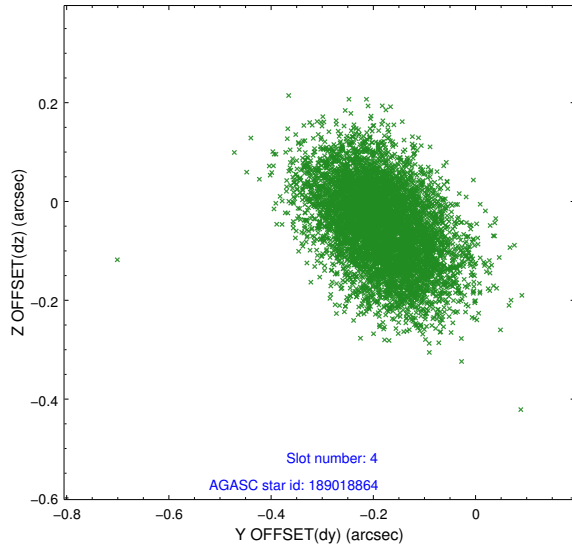
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	2970	-0.141	-0.102	0.010	0.016	0.000000	0.000000	-766.98	-1738.47
1	FID		ACIS-S-4	7.22	2970	0.419	0.095	0.009	0.016	0.000000	0.000000	2146.66	169.79
2	FID		ACIS-S-5	7.24	2970	-0.308	0.014	0.007	0.012	0.000000	0.000000	-1819.47	163.83
3	GUIDE	used	114302184	8.92	5932	-0.095	-0.300	0.159	0.232	181.306369	14.851234	1789.27	183.15
4	GUIDE	used	189018864	9.10	5933	-0.183	-0.047	0.116	0.190	182.332375	15.411376	-2111.05	1433.52
5	GUIDE	used	189019864	9.74	5929	0.250	0.445	0.258	0.379	181.569365	15.386231	-246.77	-449.01
6	GUIDE	used	189020456	9.70	5928	-0.063	-0.116	0.187	0.296	182.196983	15.036844	-804.71	2004.15
7	GUIDE	used	189023192	9.15	5931	0.101	-0.000	0.136	0.217	181.801557	15.100269	-37.93	841.60

2.4 Star Slots

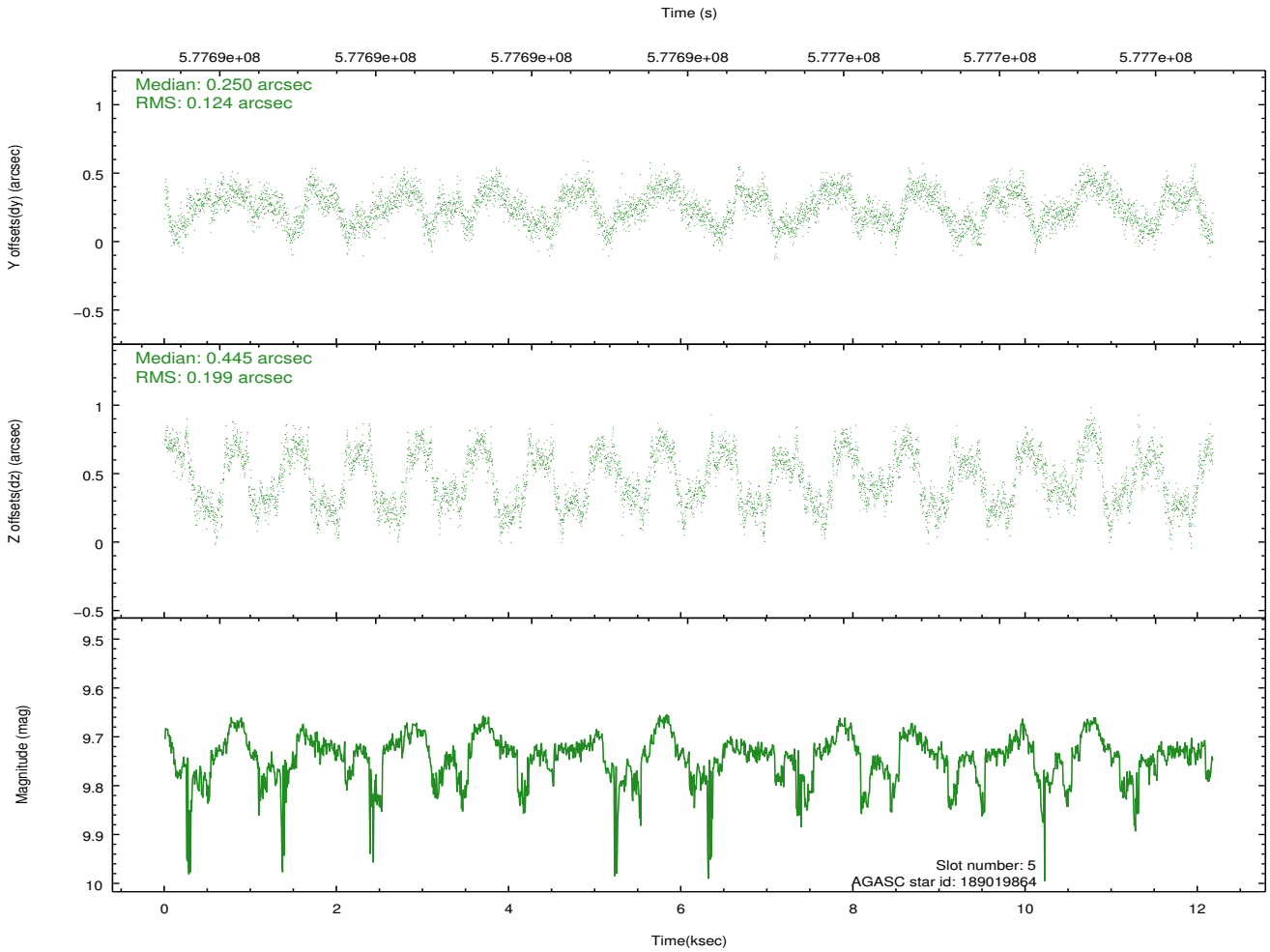
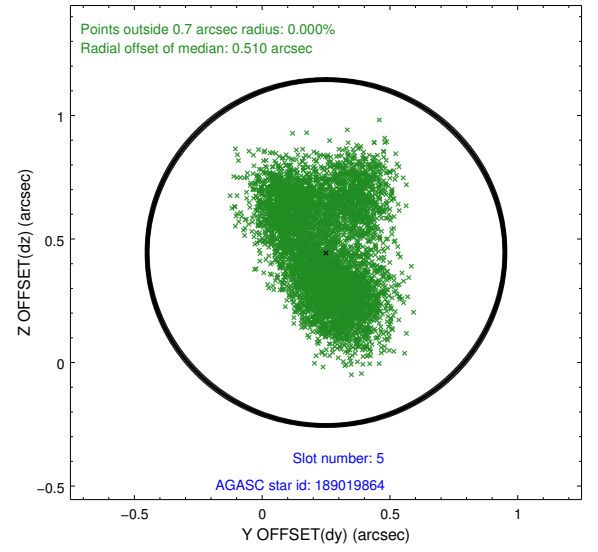
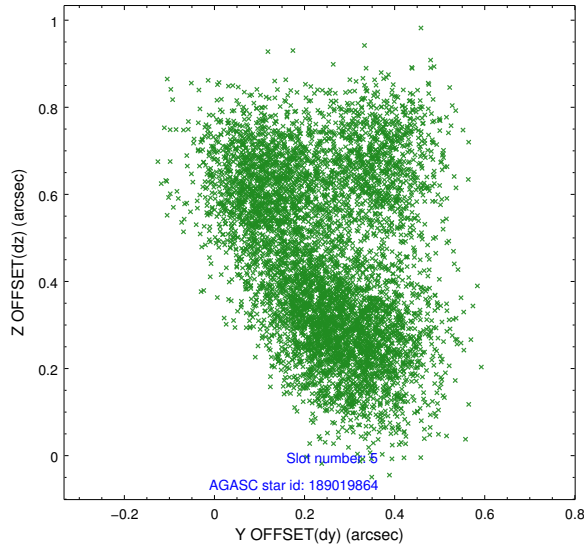
2.4.1 Slot 3



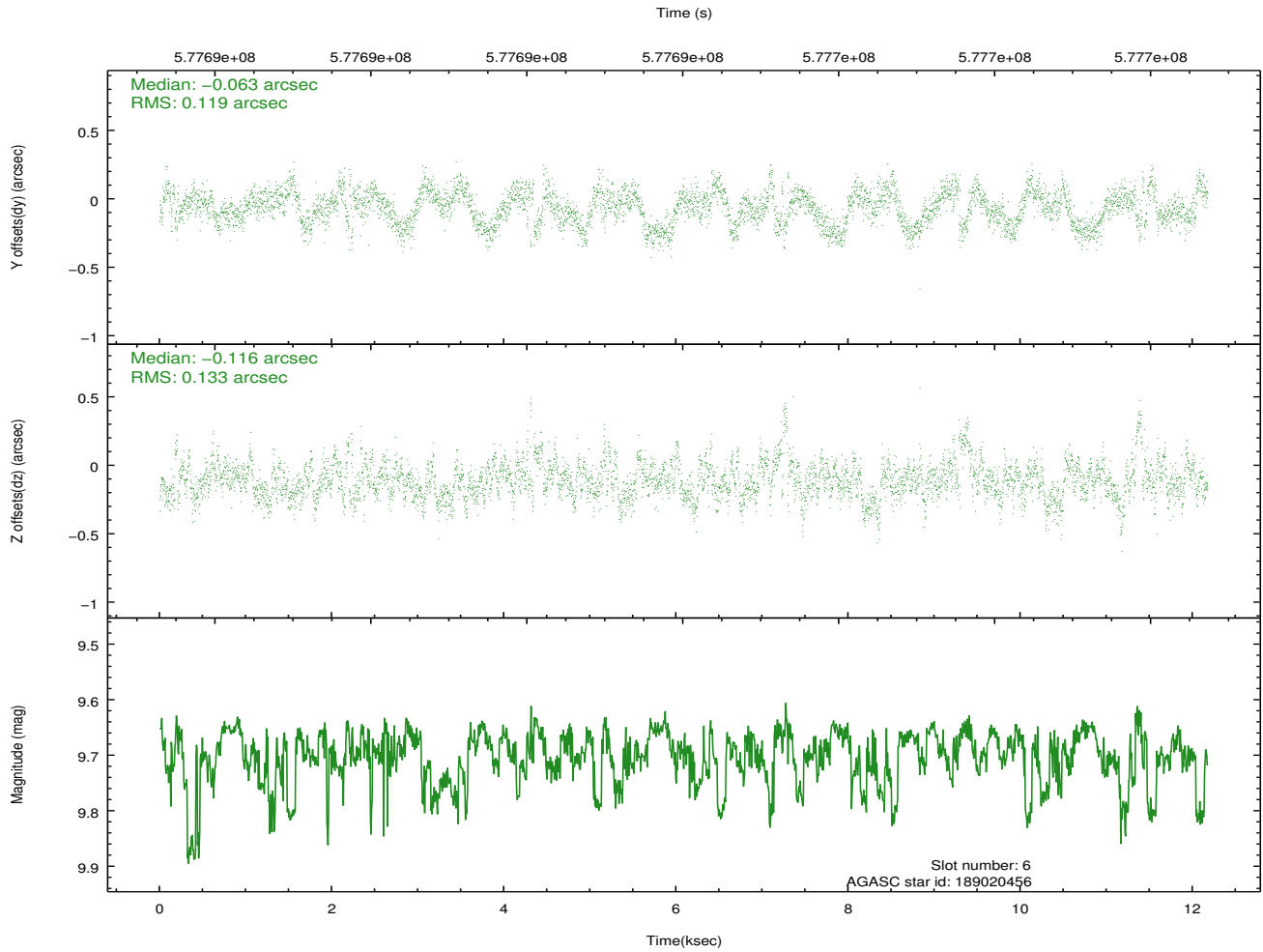
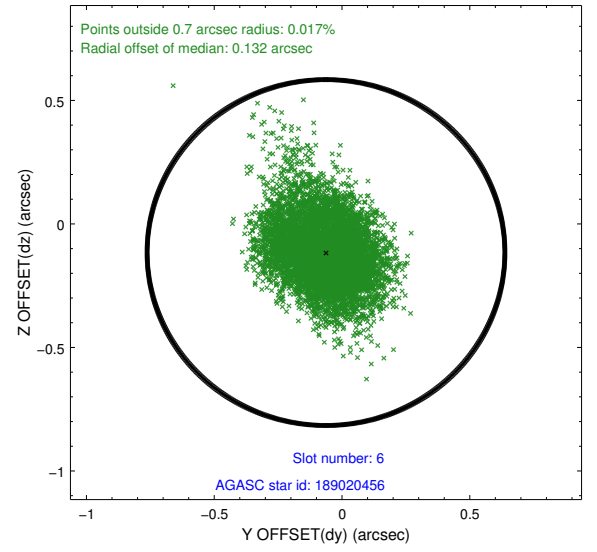
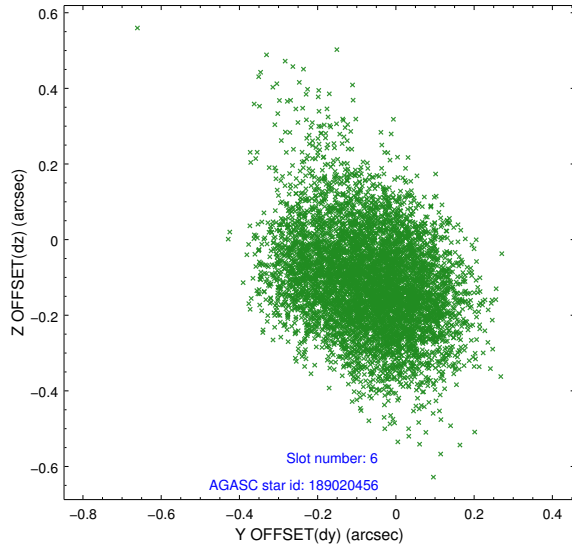
2.4.2 Slot 4



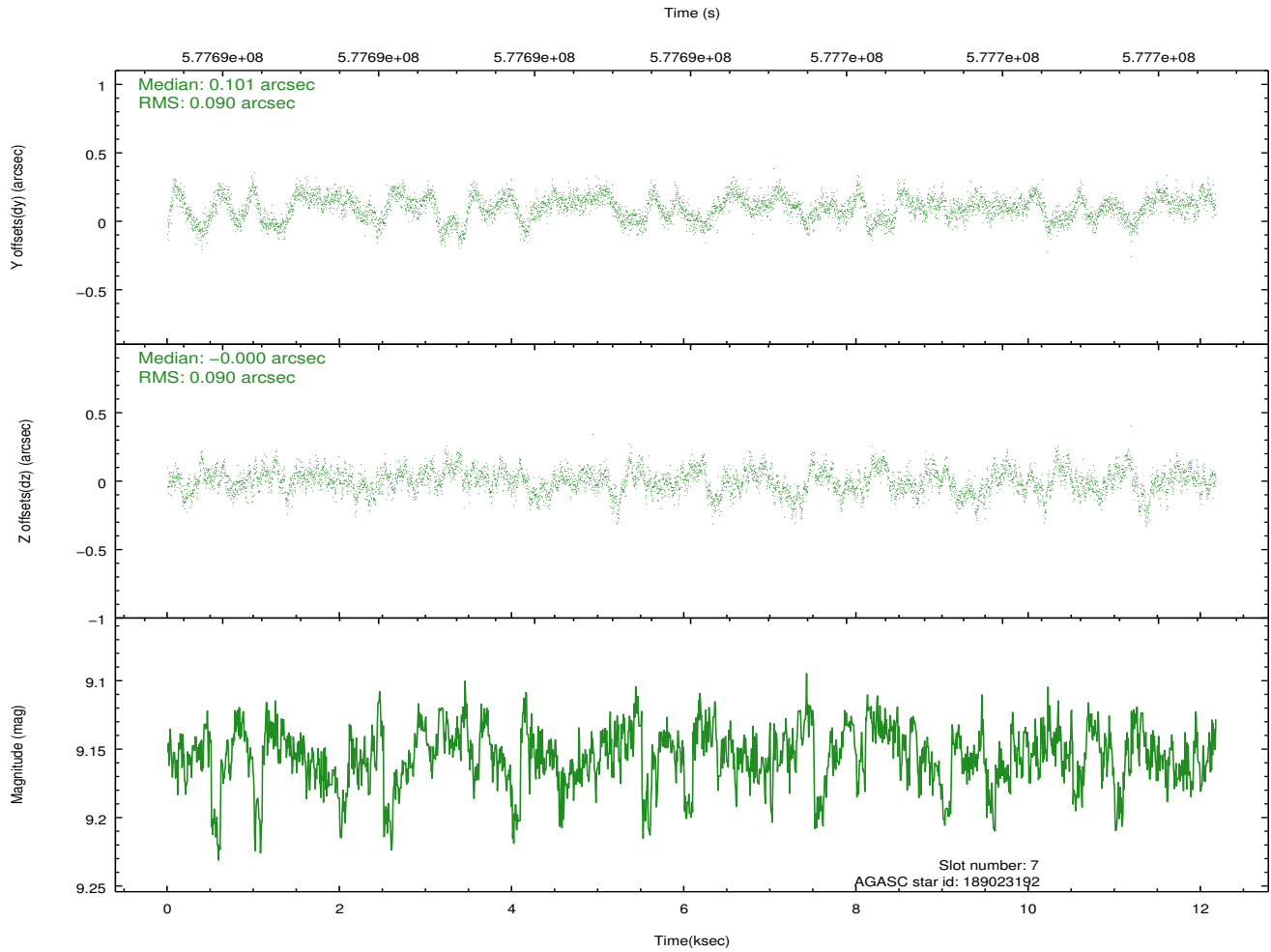
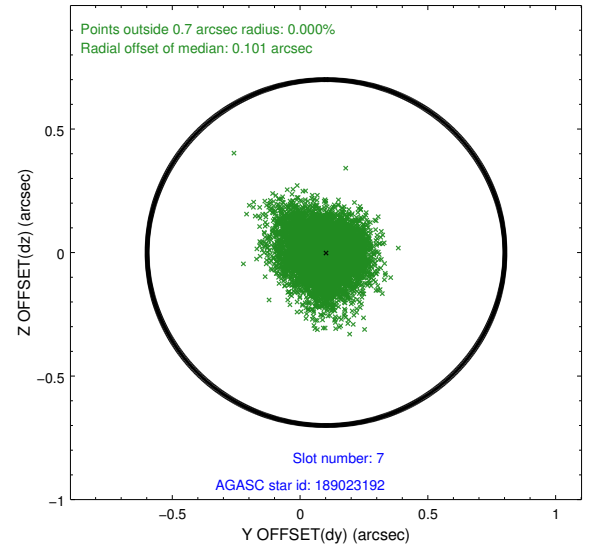
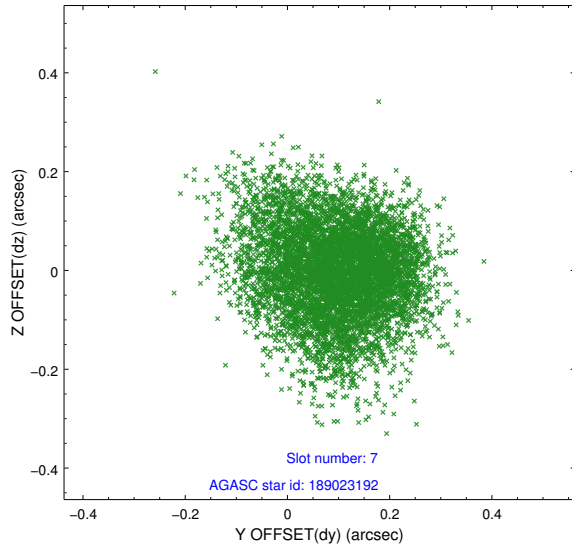
2.4.3 Slot 5



2.4.4 Slot 6

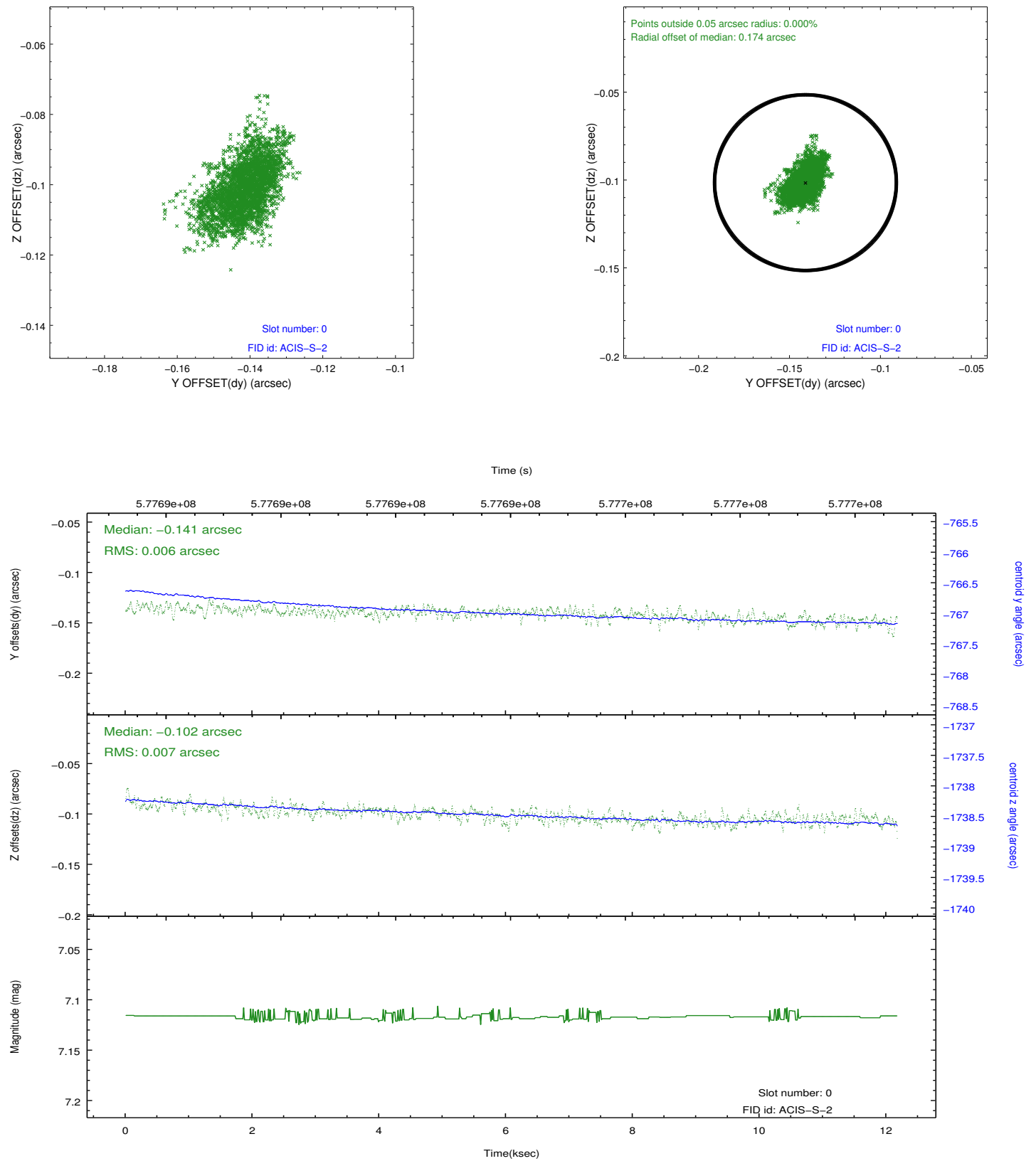


2.4.5 Slot 7

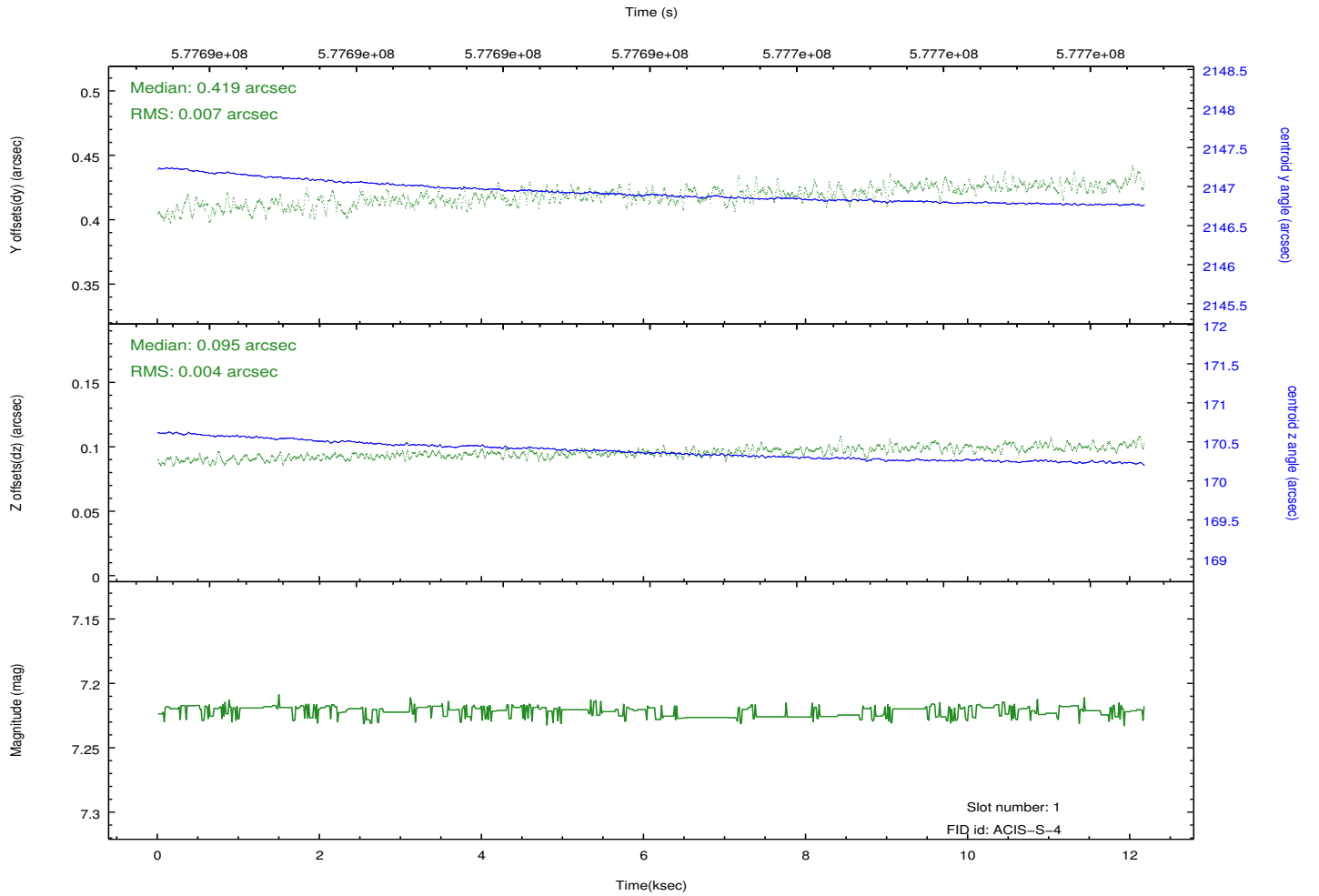
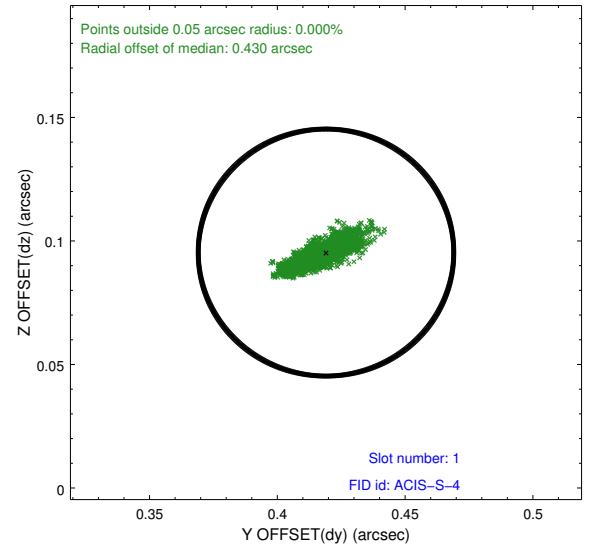
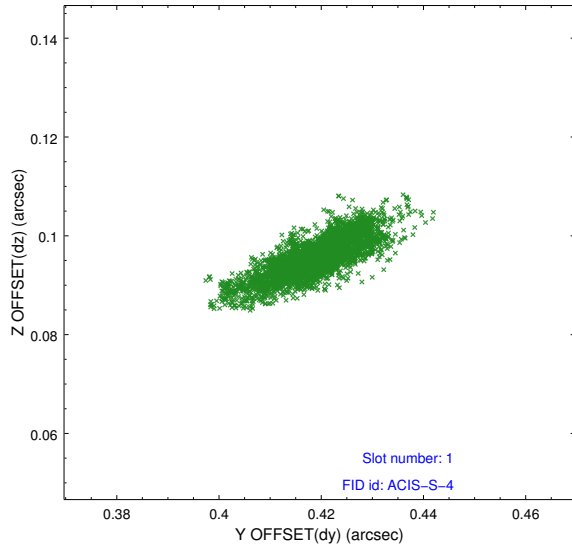


2.5 FID Slots

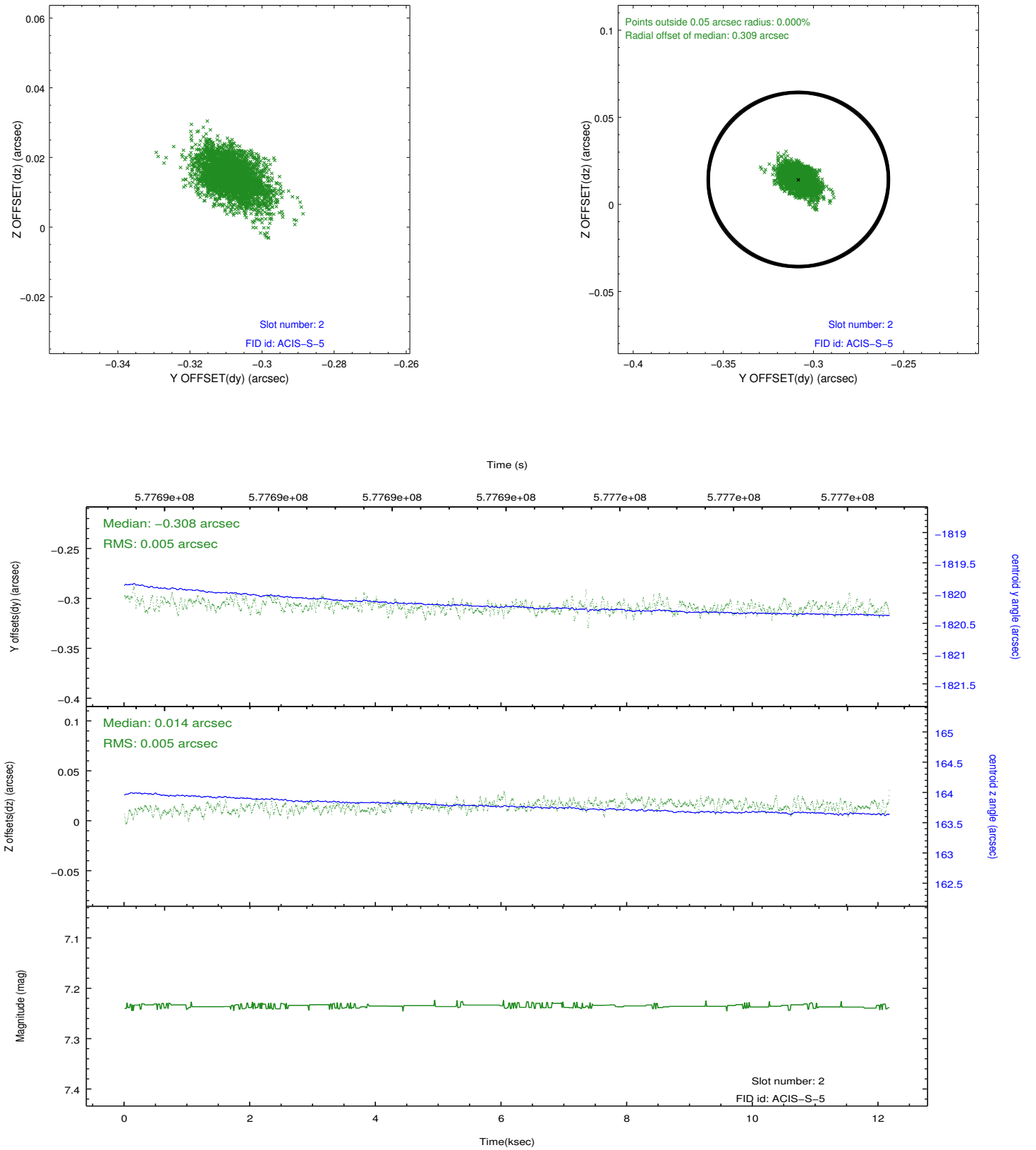
2.5.1 Slot 0



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)	2016.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.108600093246

A.2 Comments