

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19427 - L2 Version 1
Chandra X-Ray Center

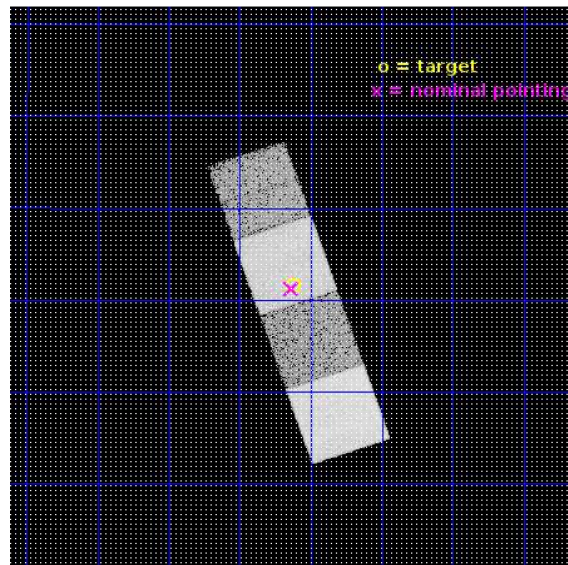
L2 Processing Date : Jul 30 2017

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

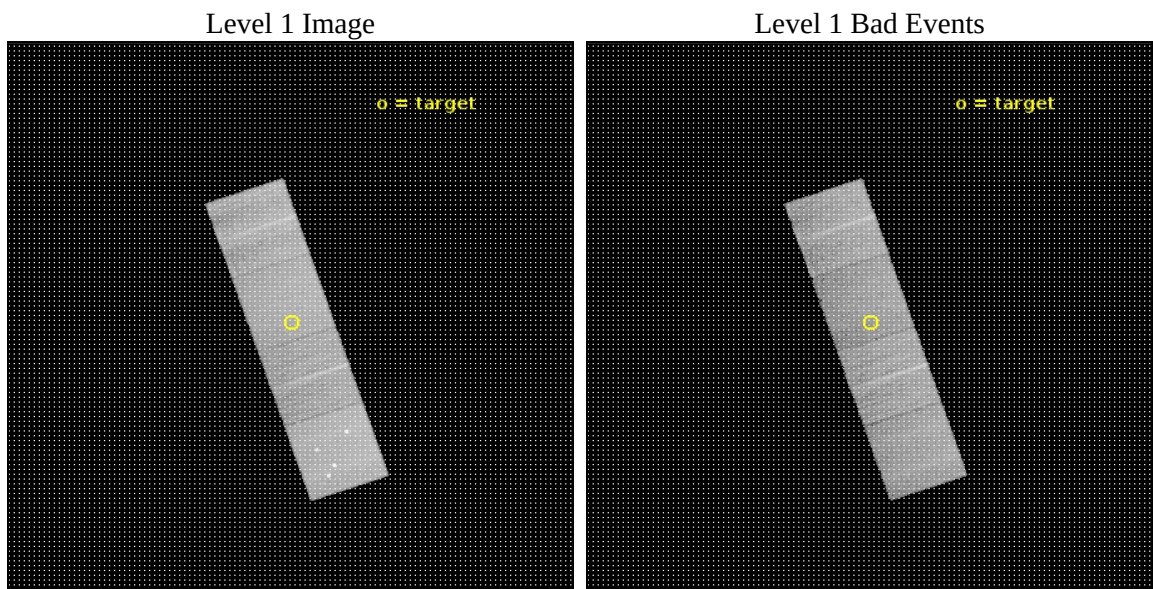
seq_num	601384	Sequence number
obs_id	19427	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4276	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.03125	Observer's specified target RA [deg]
dec_targ	7.691861	Observer's specified target Dec [deg]
ra_nom	185.03410888873	Nominal RA [deg]
dec_nom	7.6870991163883	Nominal Dec [deg]
roll_nom	251.1562709155	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15379.100118399	Sum of GTIs [s]
livetime	15178.160853423	Livetime [s]
ontime5	15379.100118399	Sum of GTIs [s]
ontime6	15379.100118399	Sum of GTIs [s]
ontime7	15379.100118399	Sum of GTIs [s]
ontime8	15379.100118399	Sum of GTIs [s]
l2events	153994	Number of level 2 events



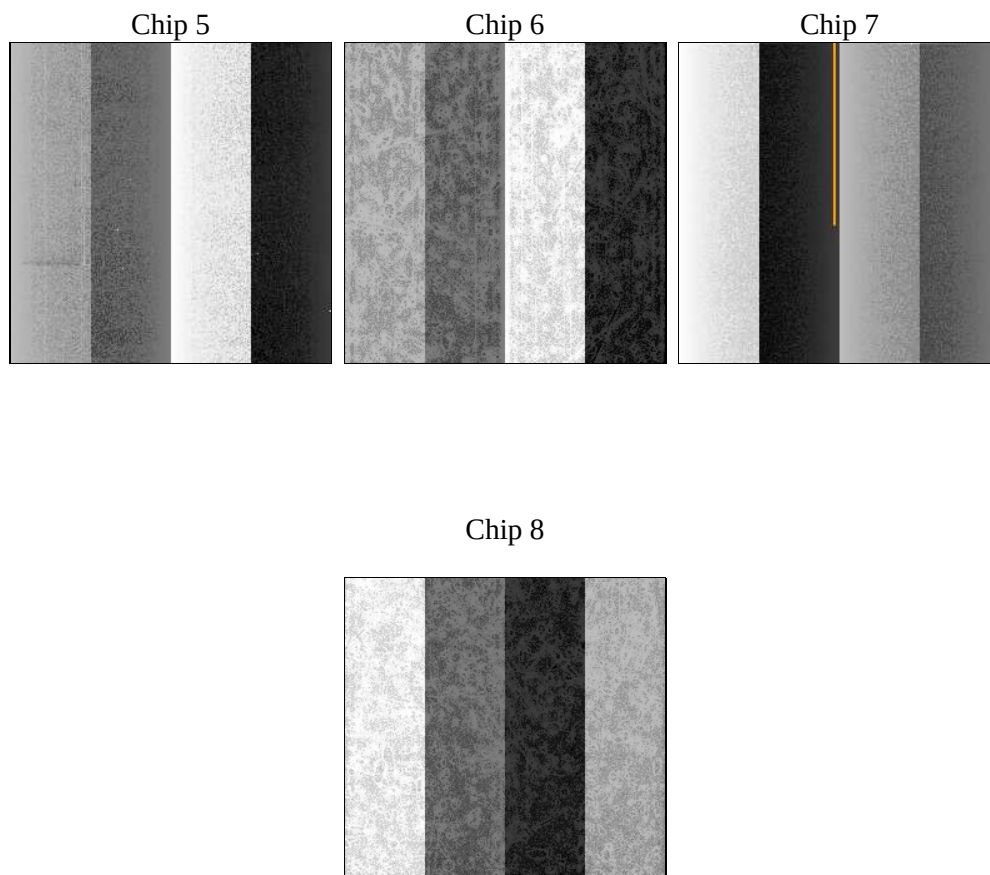
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15316.857000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15379.100118399	Sum of GTIs [s]
caldsver	4.7.5	 	ontime5	15379.100118399	Sum of GTIs [s]
date	2017-07-30T14:48:11	Date and time of file creation	ontime6	15379.100118399	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	15379.100118399	Sum of GTIs [s]
			ontime8	15379.100118399	Sum of GTIs [s]
			l1events	552193	Number of level 1 events

2.1.4 Events

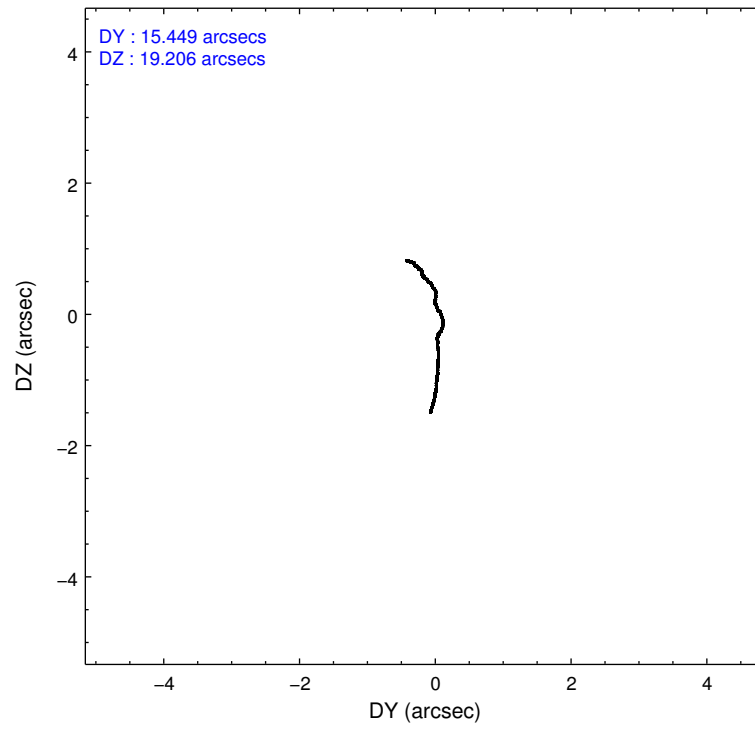
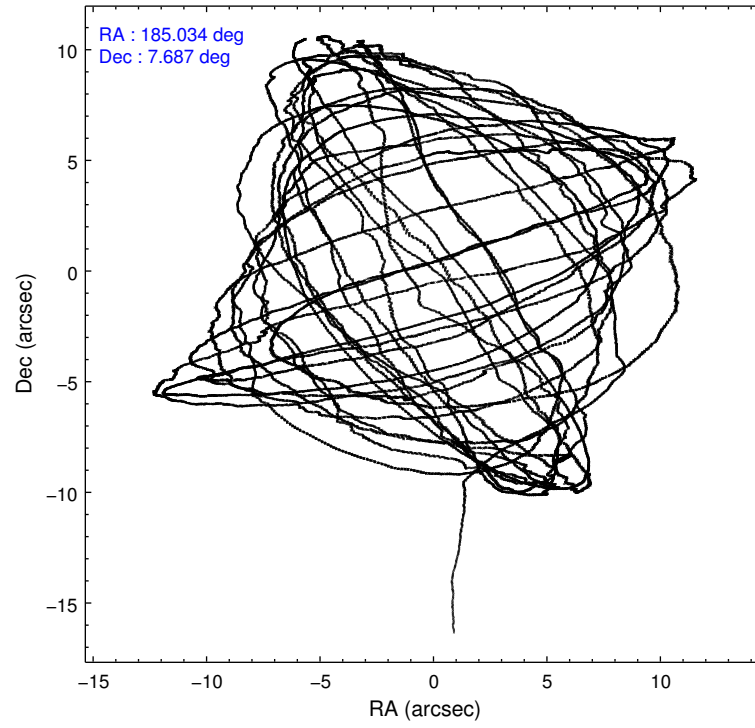
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	172961	108878	133611	136743
rejected events	86123	96959	75300	100756
rejected %	49%	89%	56%	73%

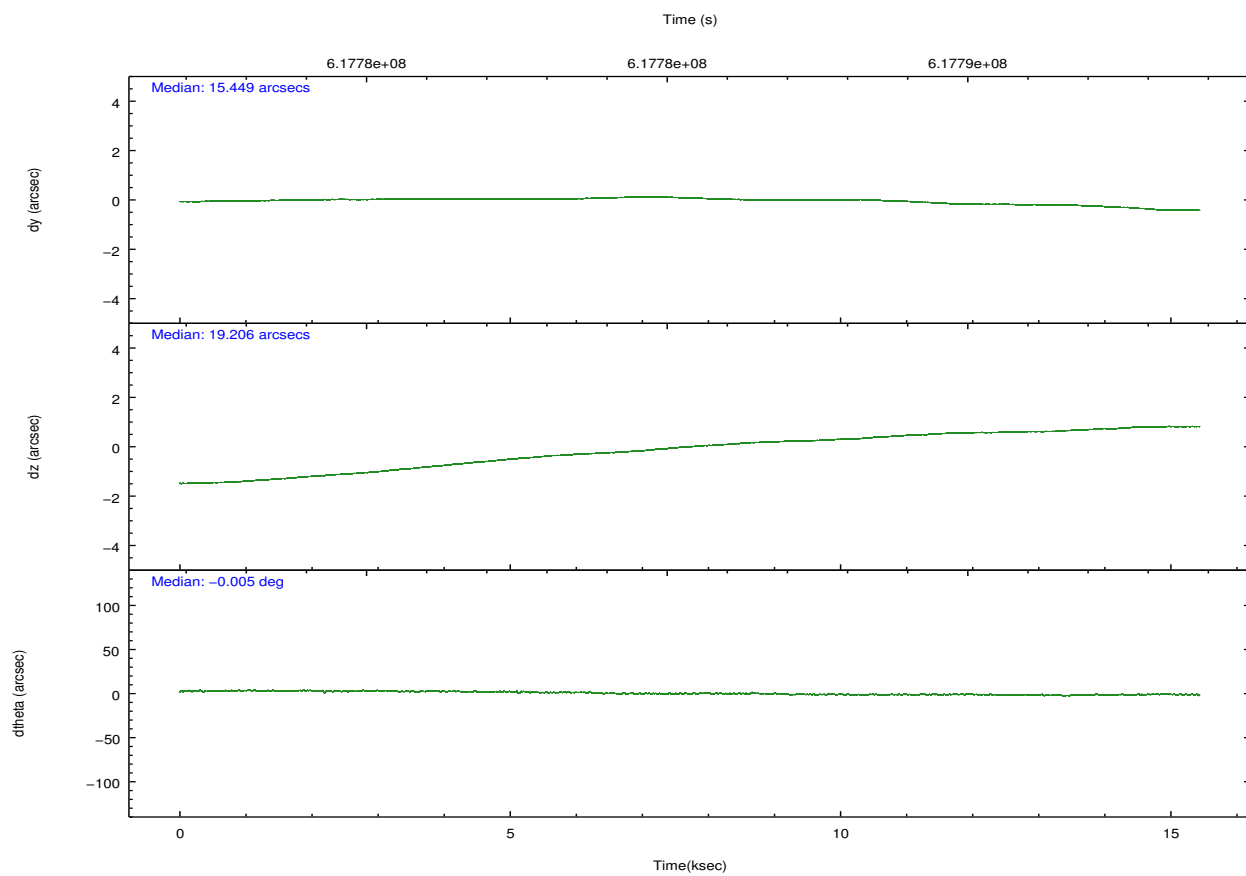
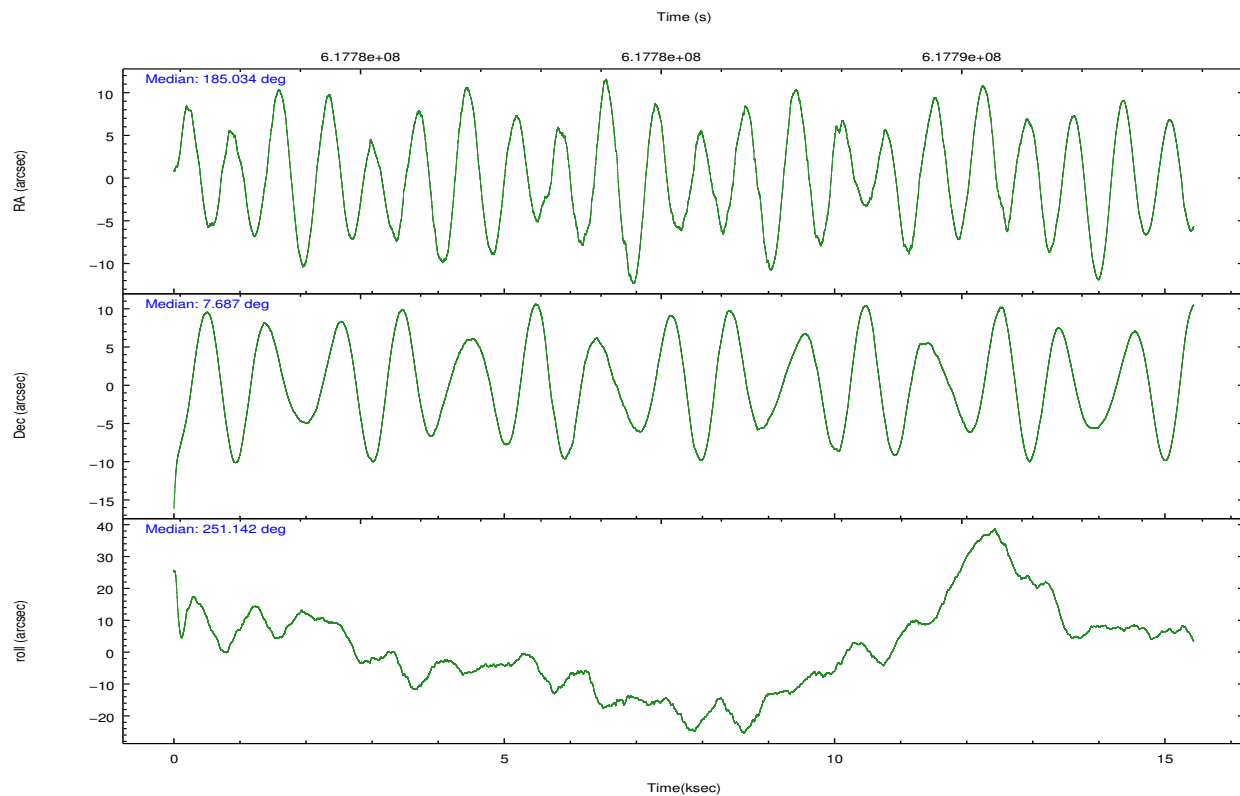
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	12428	3965	5020	10292
	7%	3%	3%	7%
grade 1 events	543	48	190	96
	0%	0%	0%	0%
grade 2 events	25395	2878	12182	8519
	14%	2%	9%	6%
grade 3 events	2409	1054	4692	3825
	1%	0%	3%	2%
grade 4 events	2315	1054	4485	3644
	1%	0%	3%	2%
grade 5 events	10737	4729	13106	7369
	6%	4%	9%	5%
grade 6 events	44307	2971	31943	9712
	25%	2%	23%	7%
grade 7 events	74827	92179	61993	93286
	43%	84%	46%	68%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	185.028369	185.0341088887314	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.713970	7.687099116388252	Alternating exposures requested	N	N
[deg] Pointing Roll	251.000392	251.1562709155003	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	617777779.184000	617776501.39335			
Observation start date	2017-07-30T04:55:10	2017-07-30T04:35:01			
[s] Observation end time (MET)	617793096.184000	617793321.13183			
Observation end date	2017-07-30T09:10:27	2017-07-30T09:15:21			
Read mode	TIMED	TIMED			

2.3 Aspect



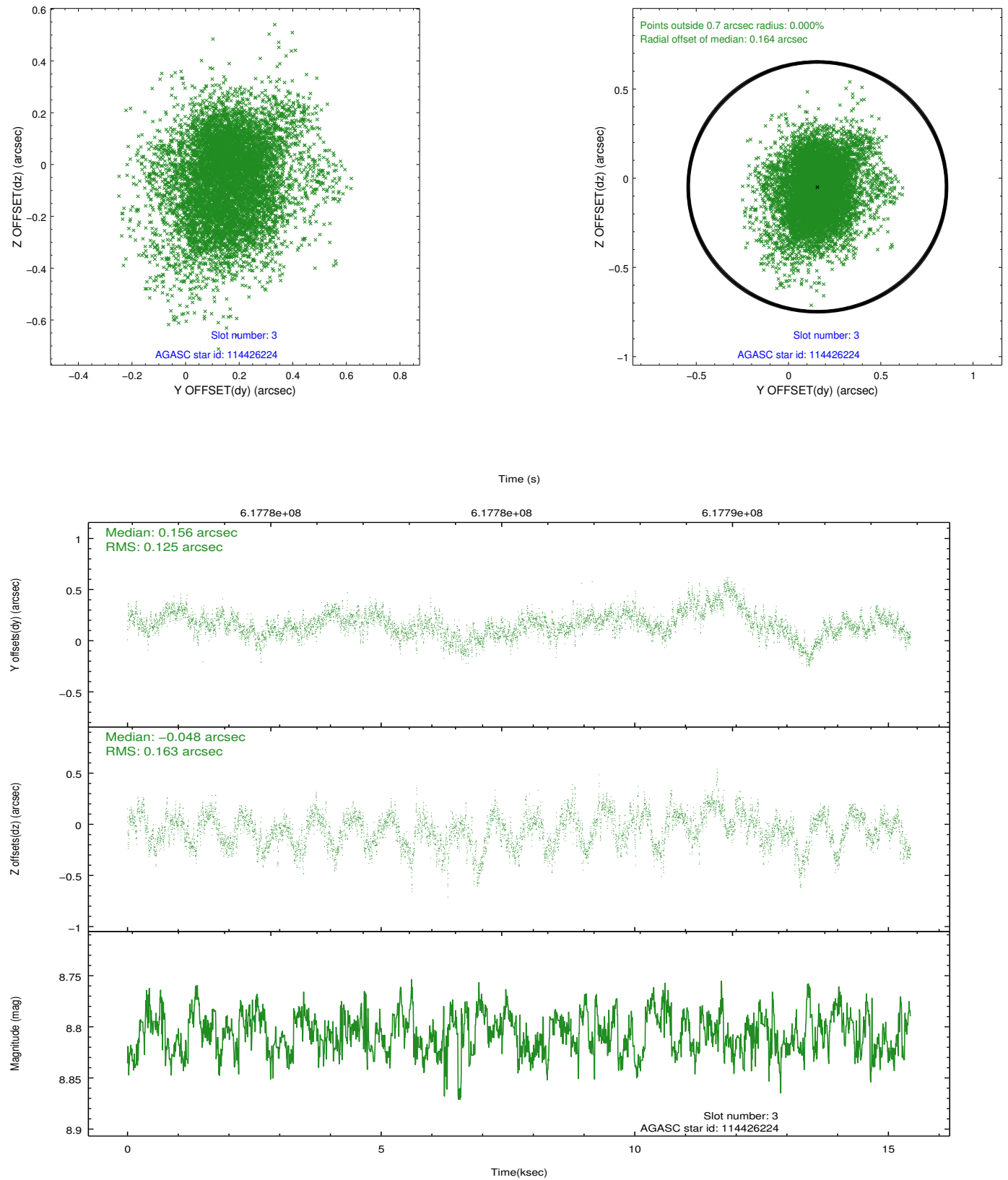


Slot Statistics

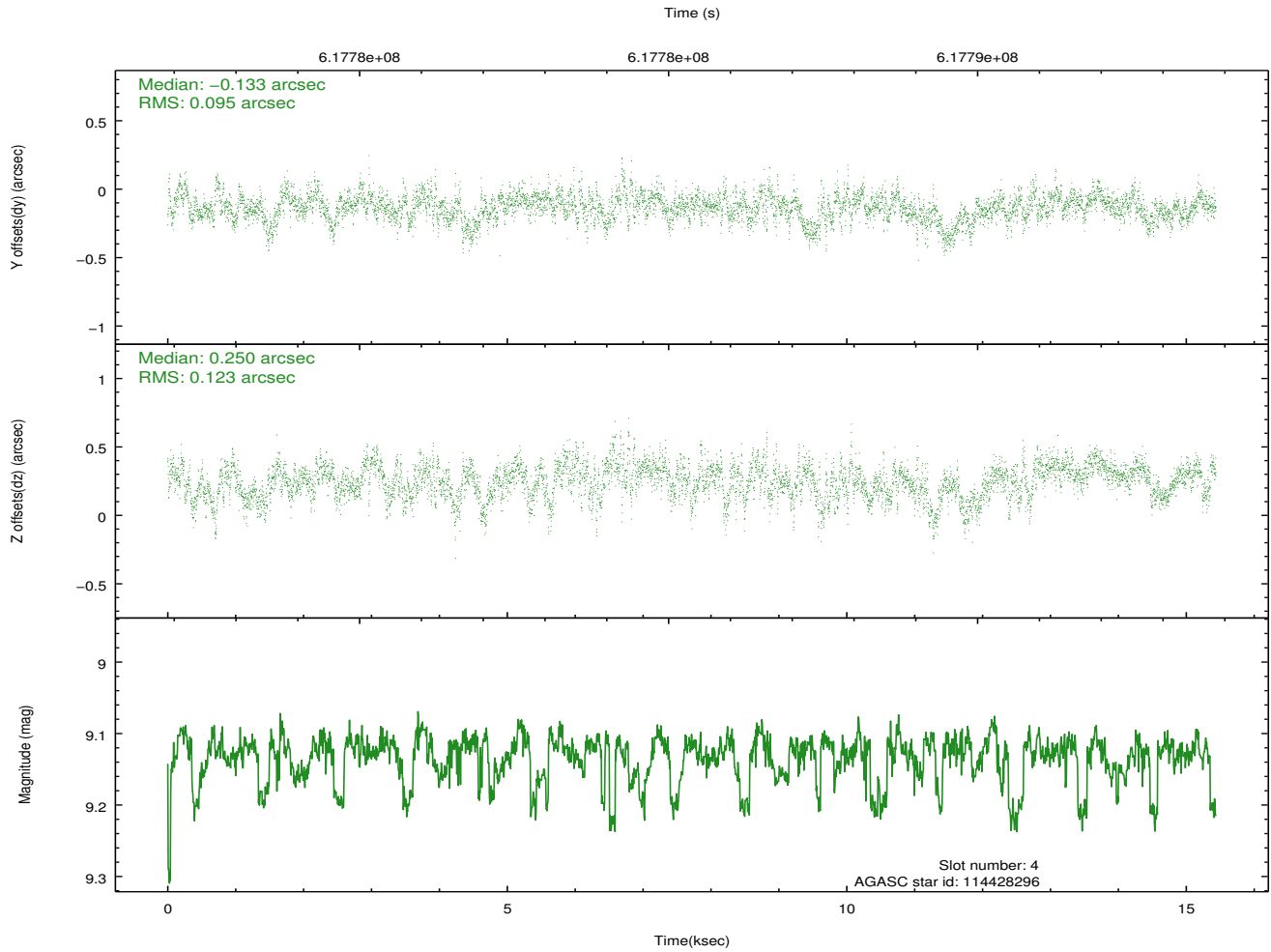
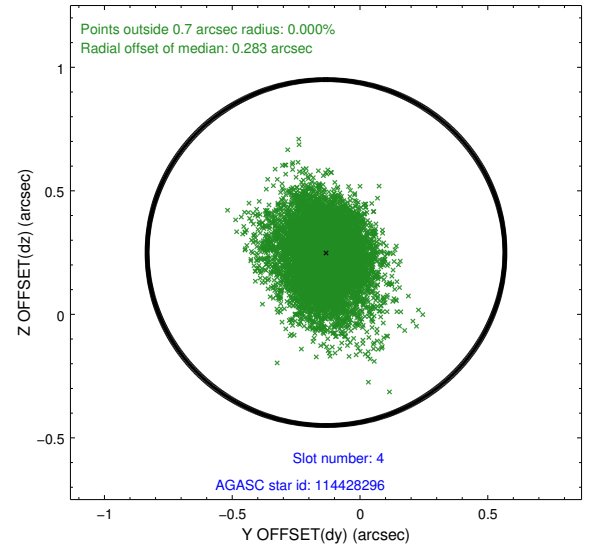
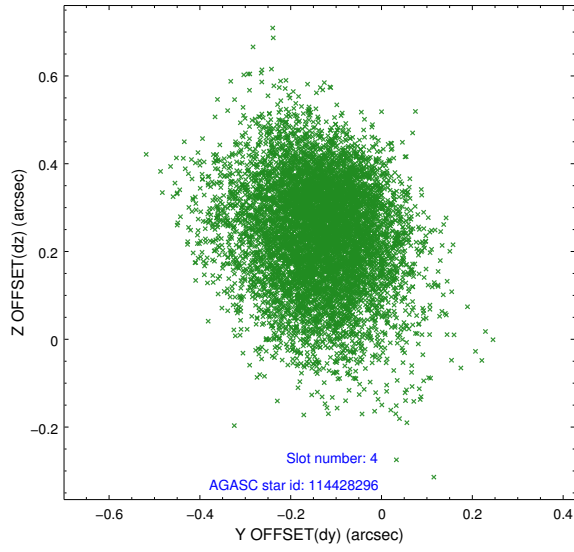
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	3765	-0.215	-0.113	0.030	0.039	0.000000	0.000000	-768.57	-1740.61
1	FID		ACIS-S-4	7.22	3765	0.493	0.133	0.008	0.016	0.000000	0.000000	2145.26	167.85
2	FID		ACIS-S-5	7.21	3765	-0.311	-0.012	0.028	0.037	0.000000	0.000000	-1821.16	161.66
3	GUIDE	used	114426224	8.81	7527	0.156	-0.048	0.214	0.368	184.430539	7.663672	865.23	-1957.78
4	GUIDE	used	114428296	9.13	7517	-0.133	0.250	0.163	0.276	185.626025	8.050776	-1841.44	1618.31
5	GUIDE	used	114433792	9.53	7481	-0.118	0.099	0.306	0.458	185.373016	7.818558	-756.28	1040.58
6	GUIDE	used	114434008	8.75	7524	0.008	-0.243	0.127	0.232	185.534773	7.569663	-98.06	1877.30
7	GUIDE	used	114434192	9.71	7514	0.084	-0.047	0.171	0.300	185.388204	7.710531	-406.70	1219.11

2.4 Star Slots

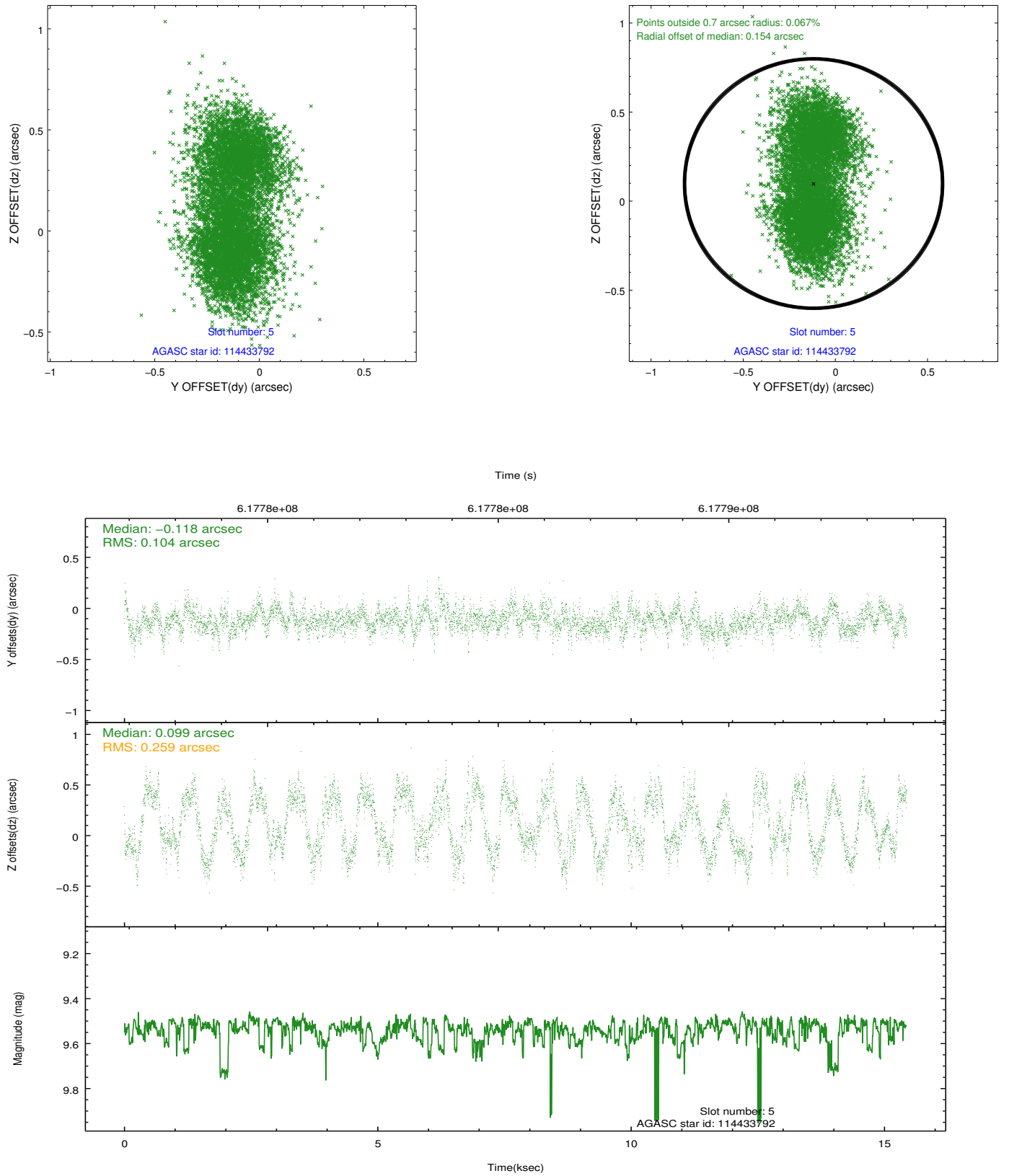
2.4.1 Slot 3



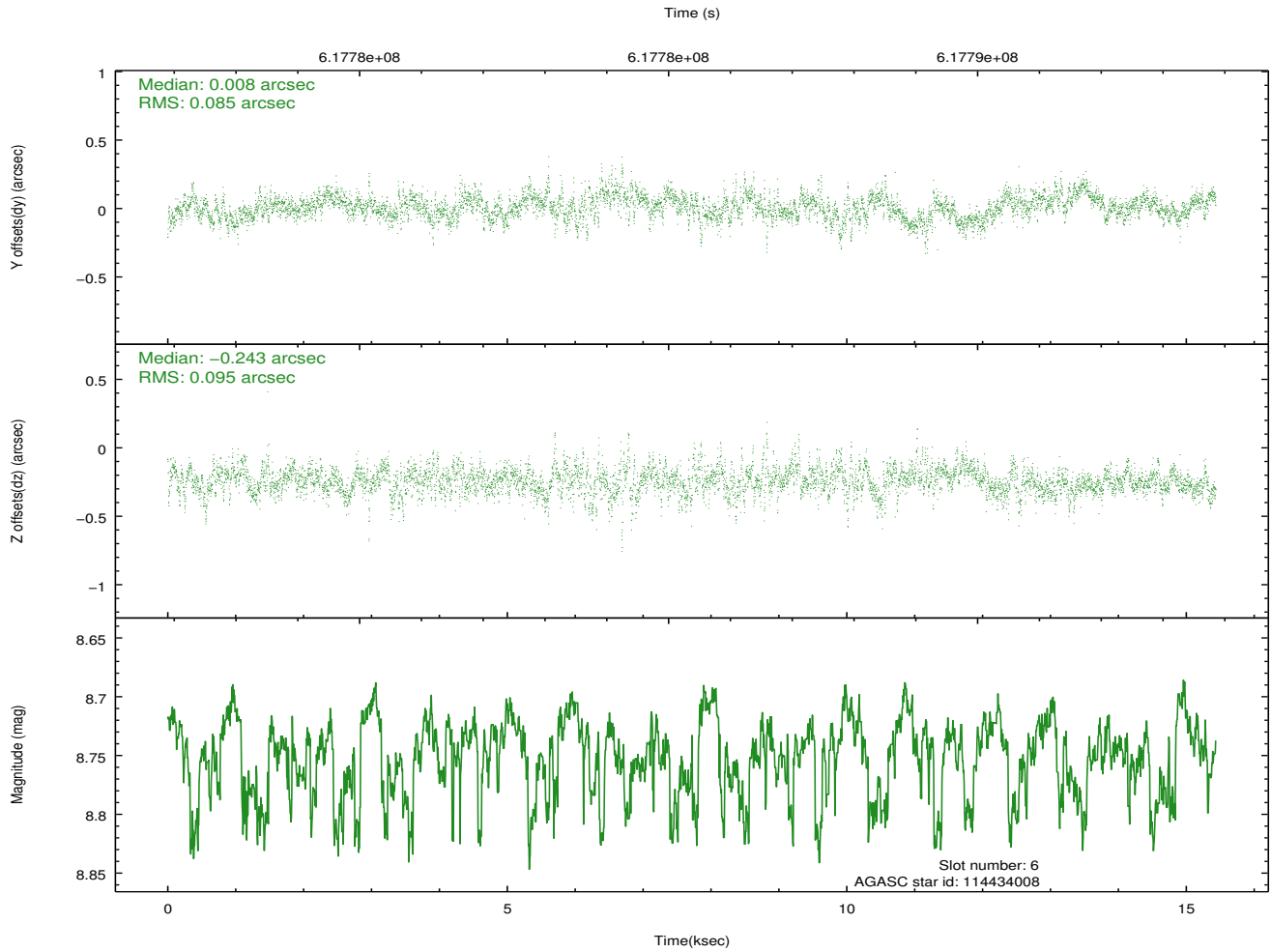
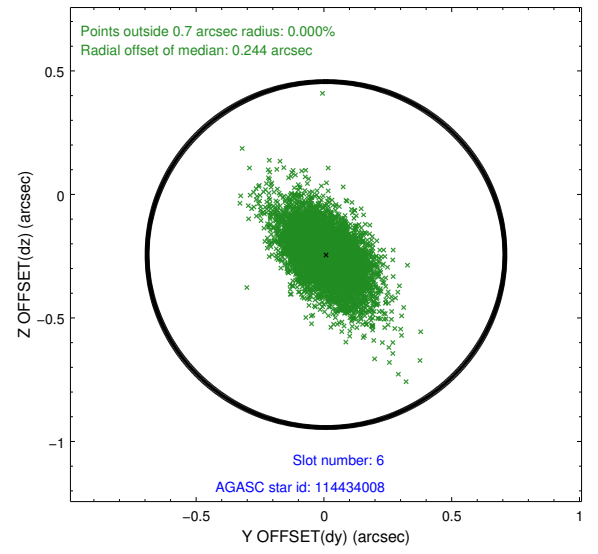
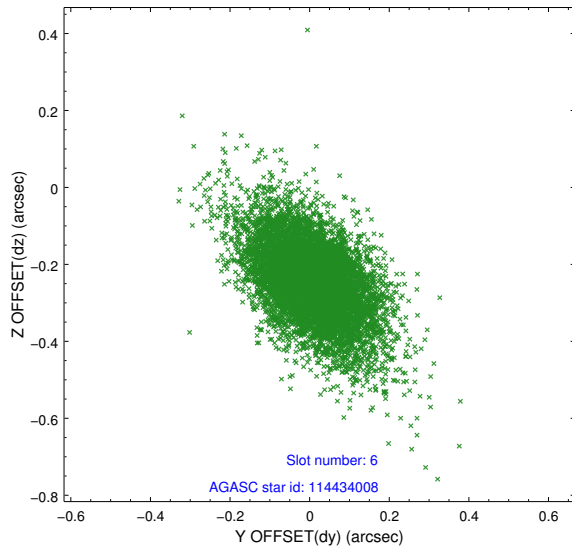
2.4.2 Slot 4



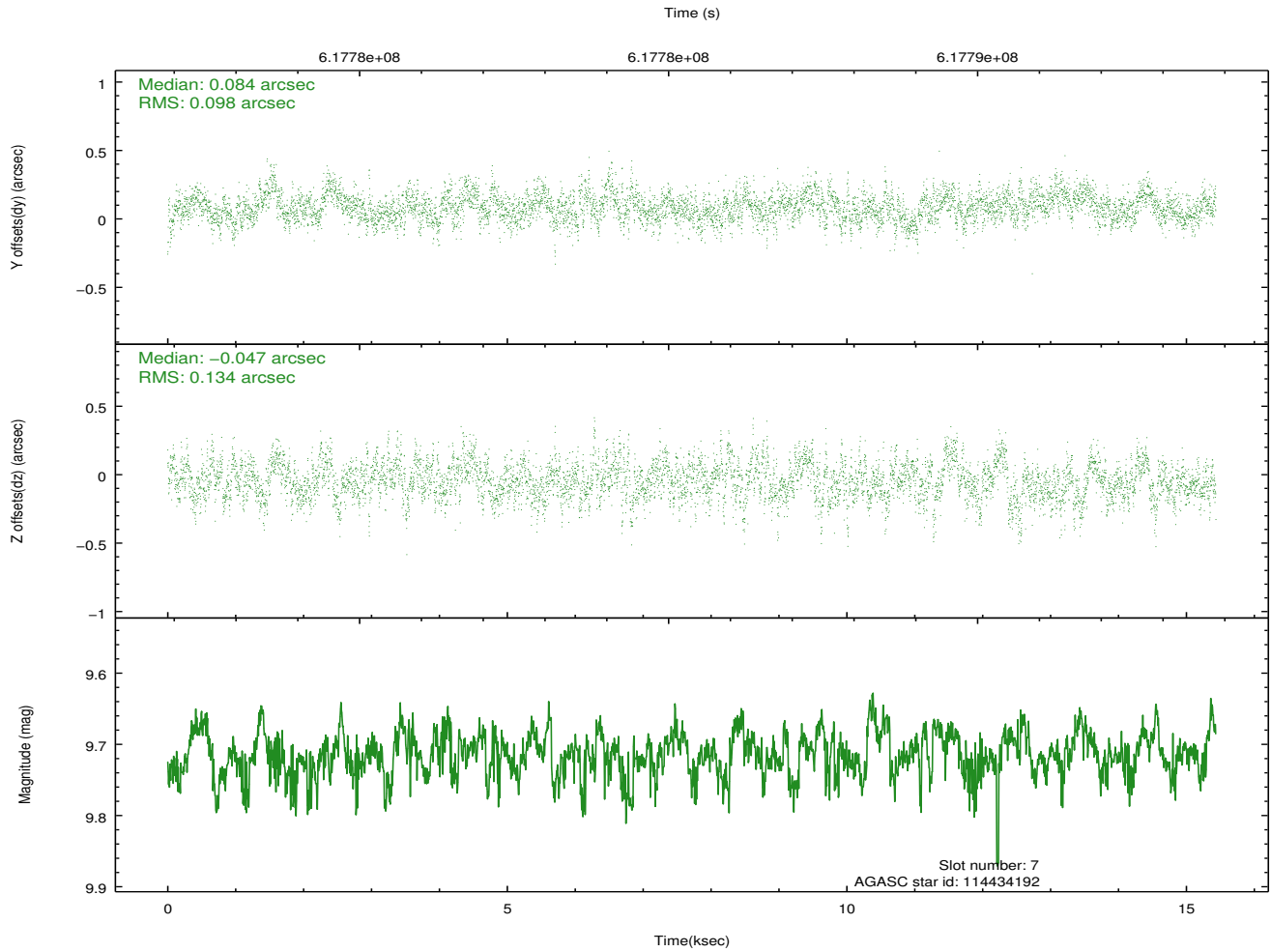
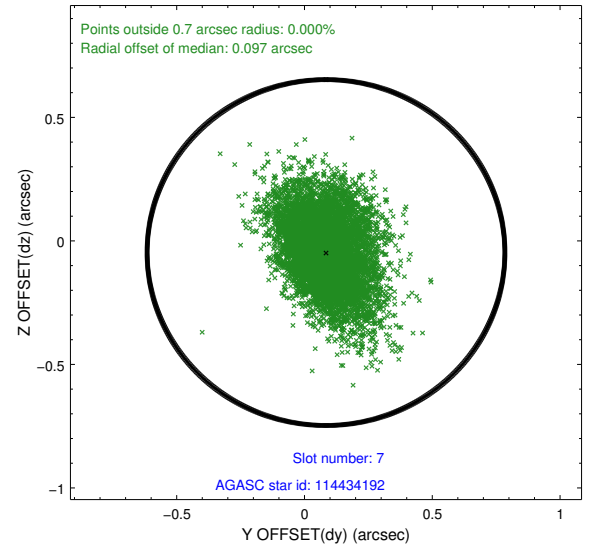
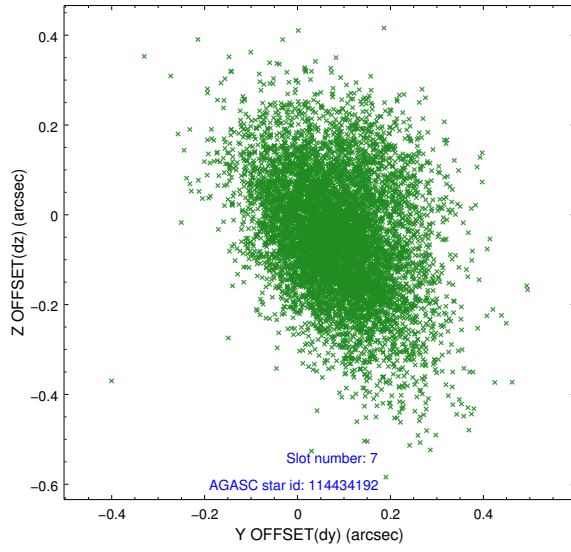
2.4.3 Slot 5



2.4.4 Slot 6

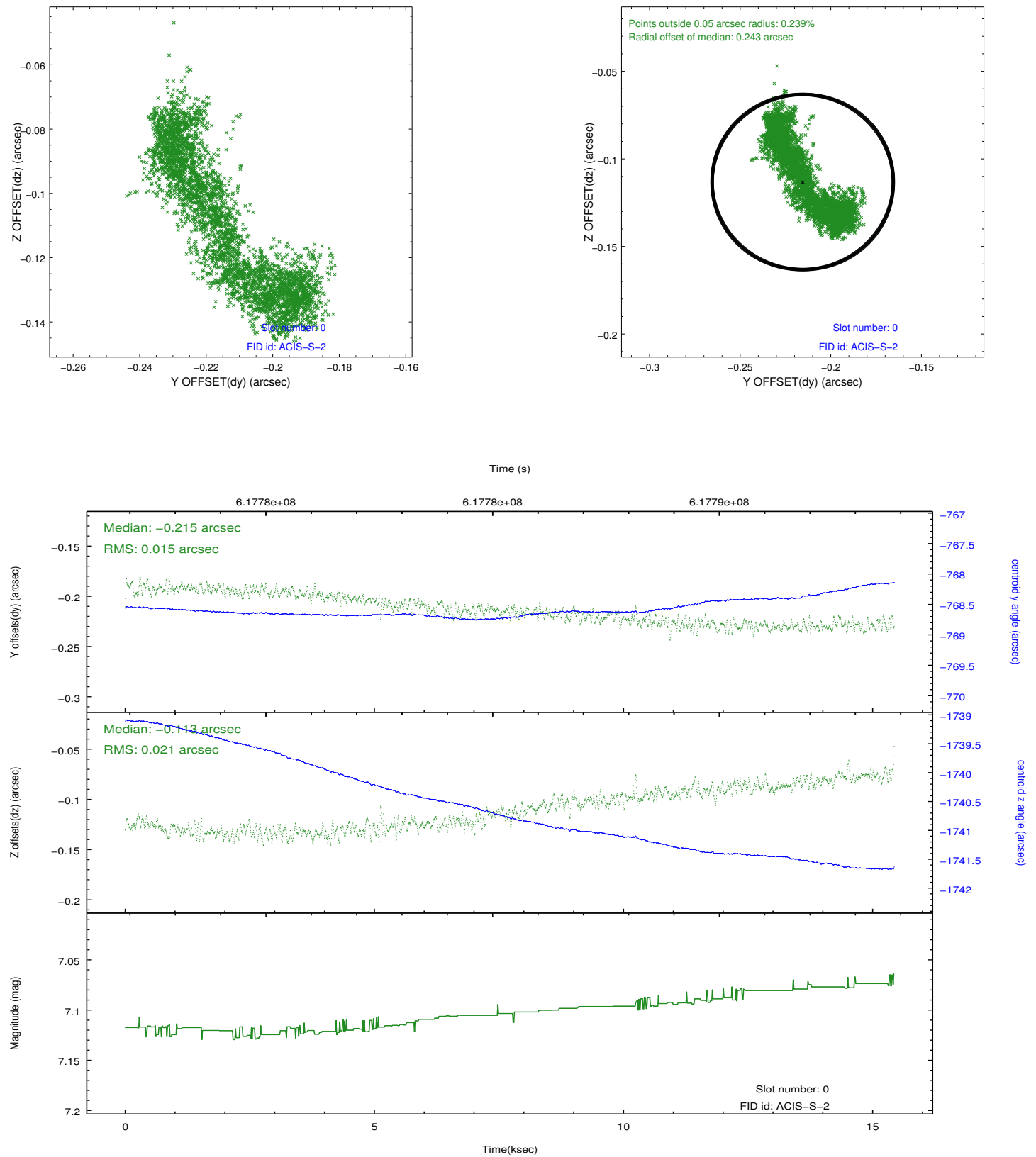


2.4.5 Slot 7

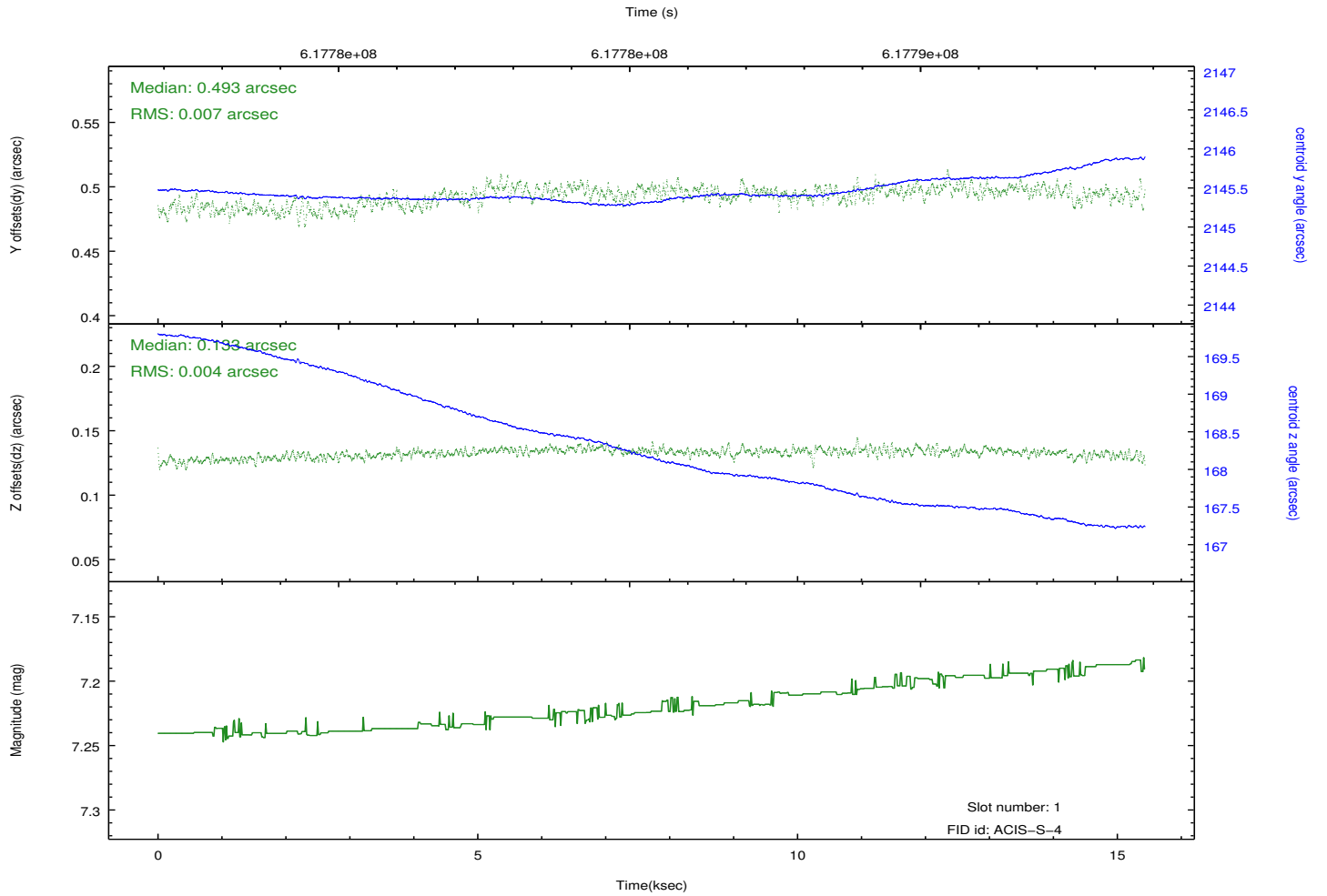
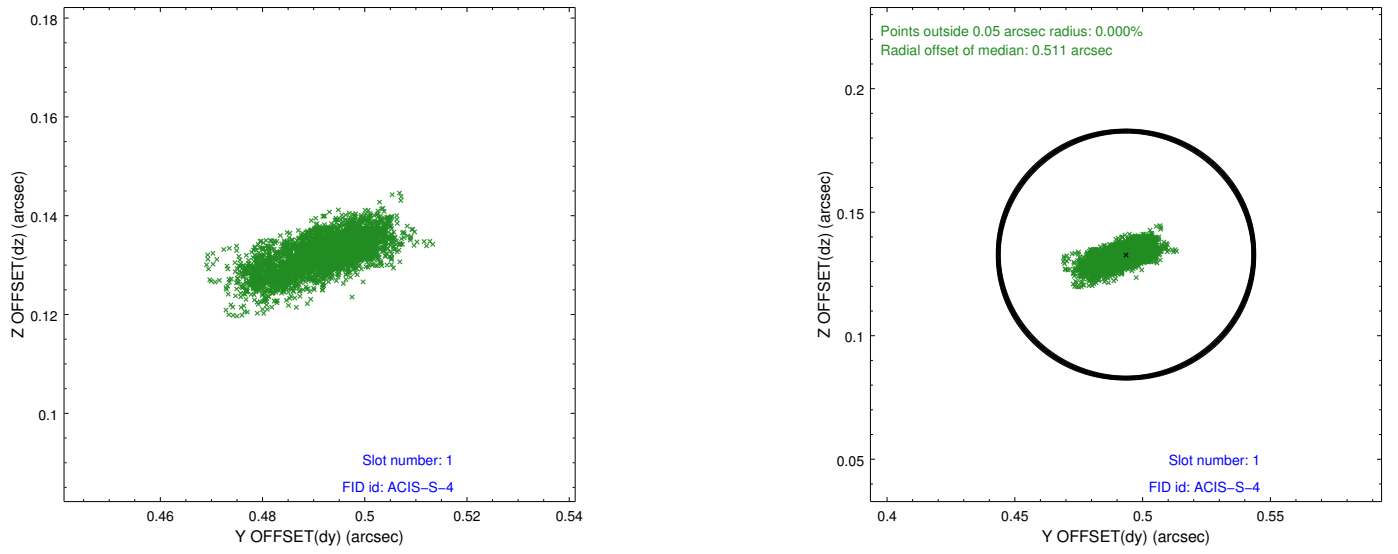


2.5 FID Slots

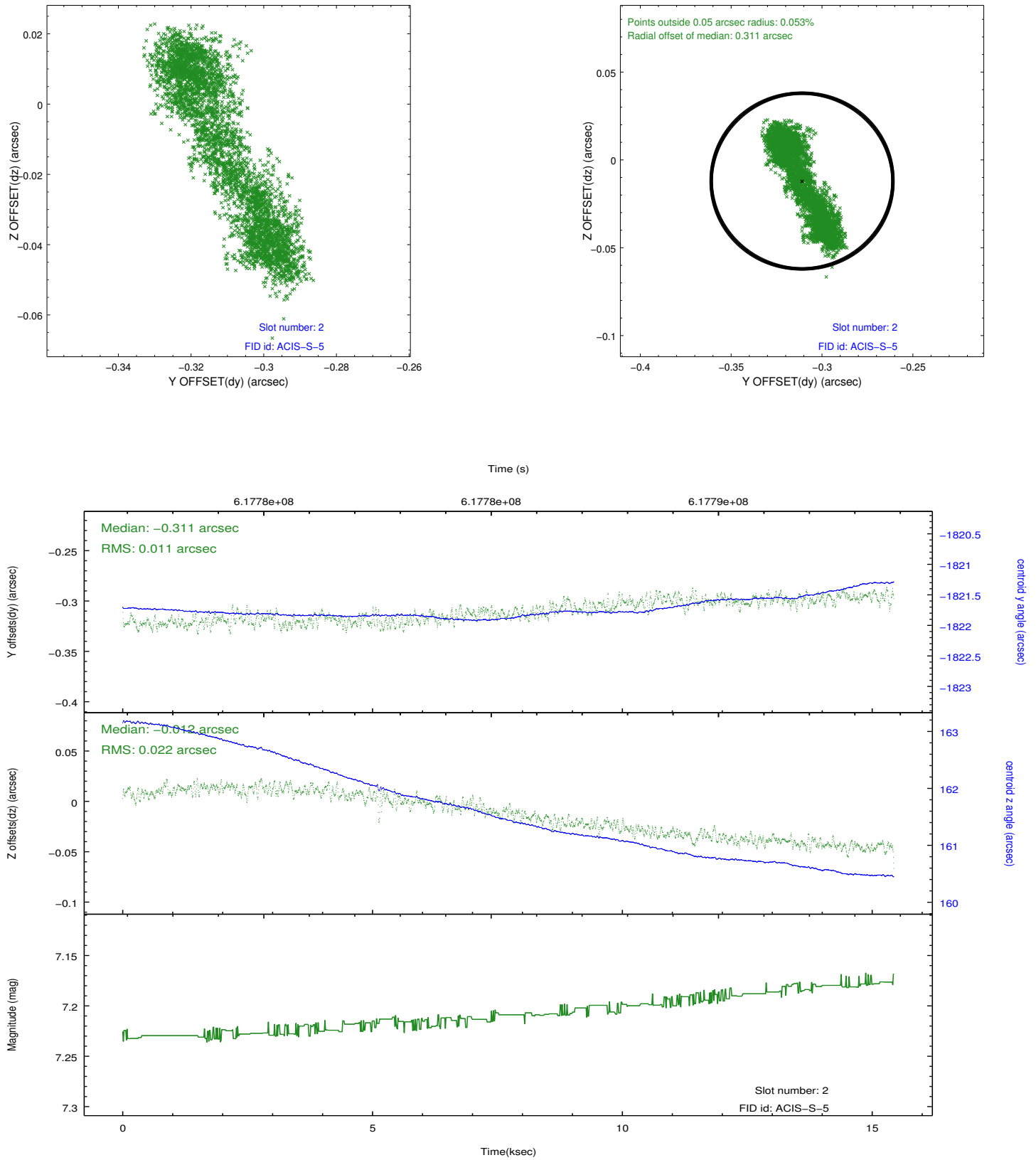
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.07.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.379100118399

A.2 Comments