

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15012 - L2 Version 2
Chandra X-Ray Center

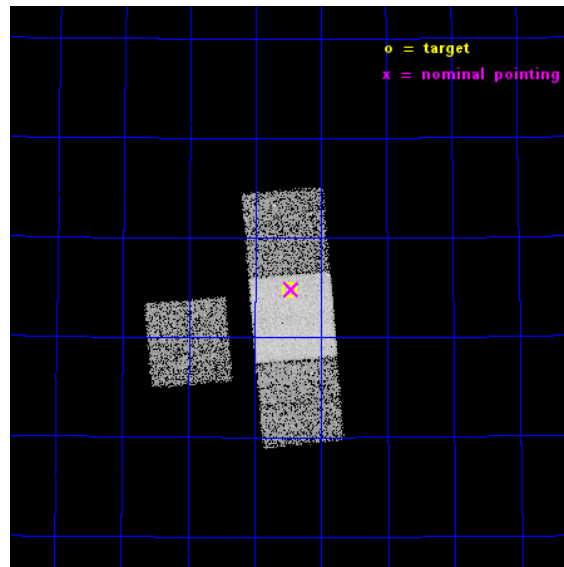
L2 Processing Date : Dec 1 2014

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

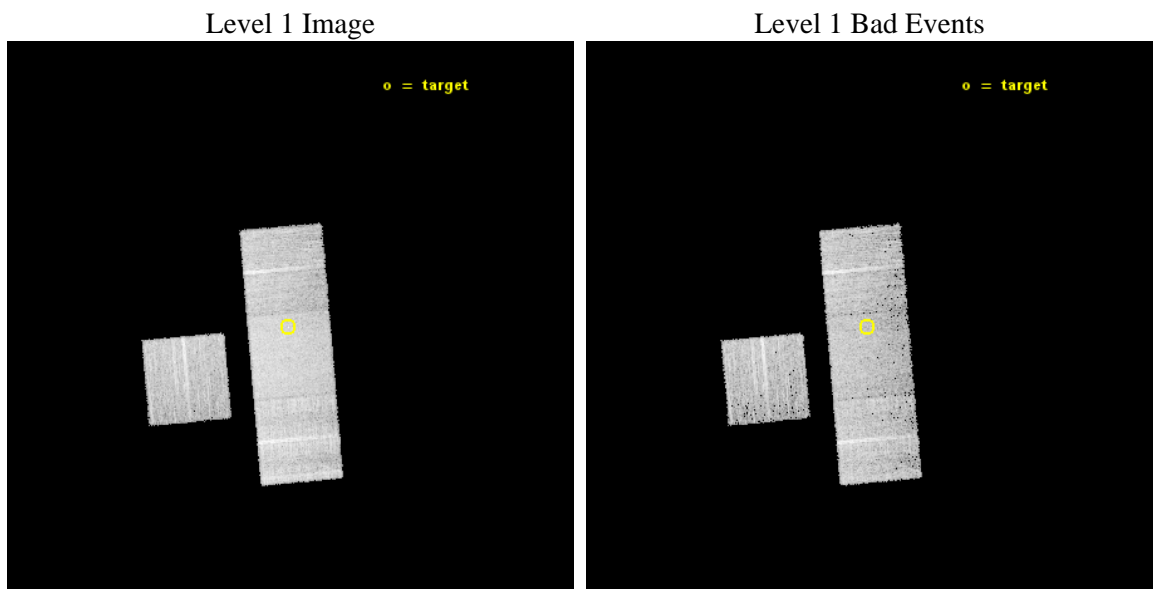
seq_num	702820	Sequence number
obs_id	15012	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C343.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.6175	Observer's specified target RA [deg]
dec_targ	62.578972	Observer's specified target Dec [deg]
ra_nom	249.61221791056	Nominal RA [deg]
dec_nom	62.580788480991	Nominal Dec [deg]
roll_nom	84.989150442976	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10074.261382043	Sum of GTIs [s]
livetime	9942.6337405236	Livetime [s]
ontime3	10074.179302037	Sum of GTIs [s]
ontime6	10074.22034204	Sum of GTIs [s]
ontime7	10074.261382043	Sum of GTIs [s]
ontime8	10070.997241855	Sum of GTIs [s]
l2events	50046	Number of level 2 events



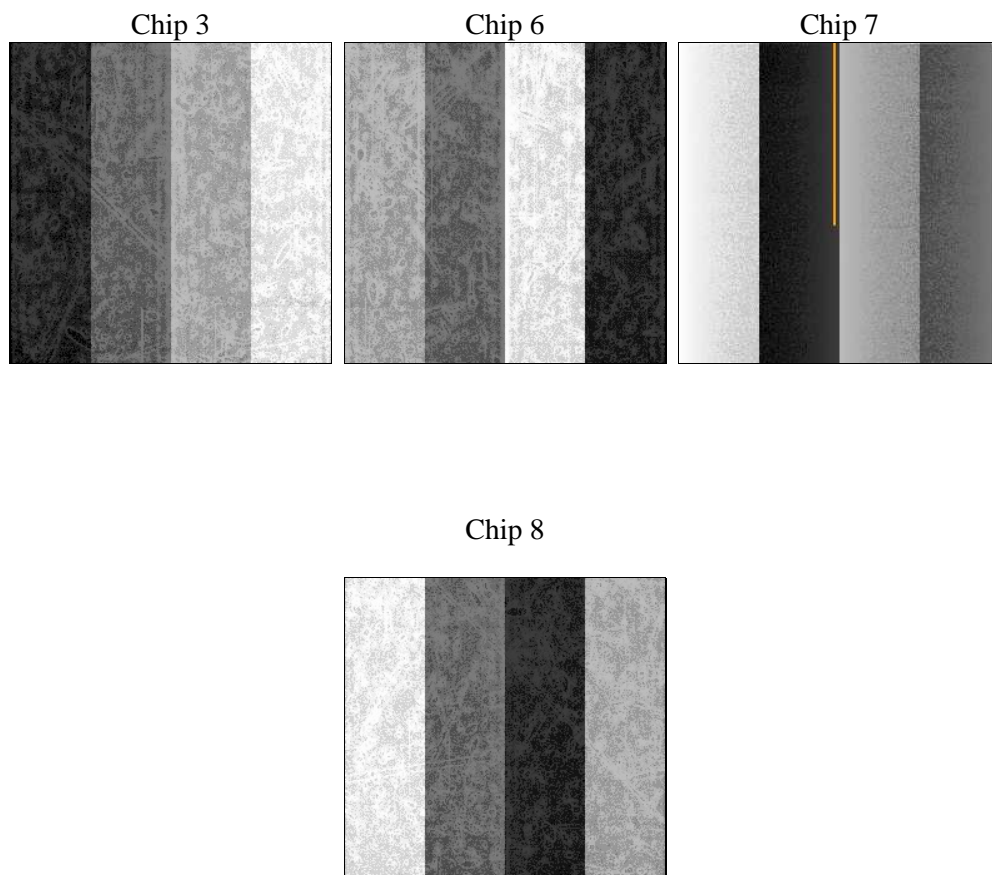
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.030000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10074.261382043	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10074.179302037	Sum of GTIs [s]
date	2014-12-01T17:29:22	Date and time of file creation	ontime6	10074.22034204	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10074.261382043	Sum of GTIs [s]
			ontime8	10070.997241855	Sum of GTIs [s]
			l1events	258664	Number of level 1 events

2.1.4 Events

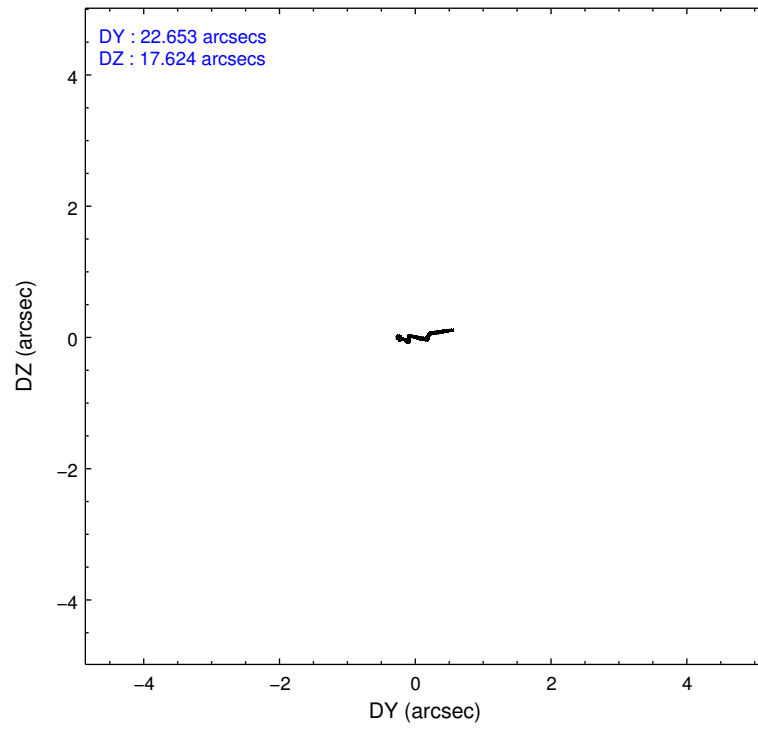
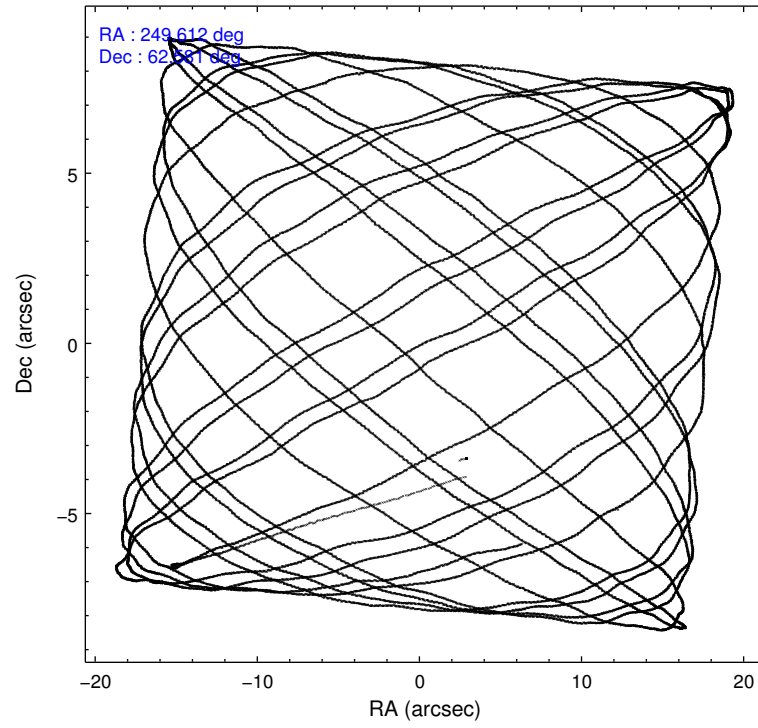
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	53126	56710	75194	73634
rejected events	46859	50014	42604	53486
rejected %	88%	88%	56%	72%

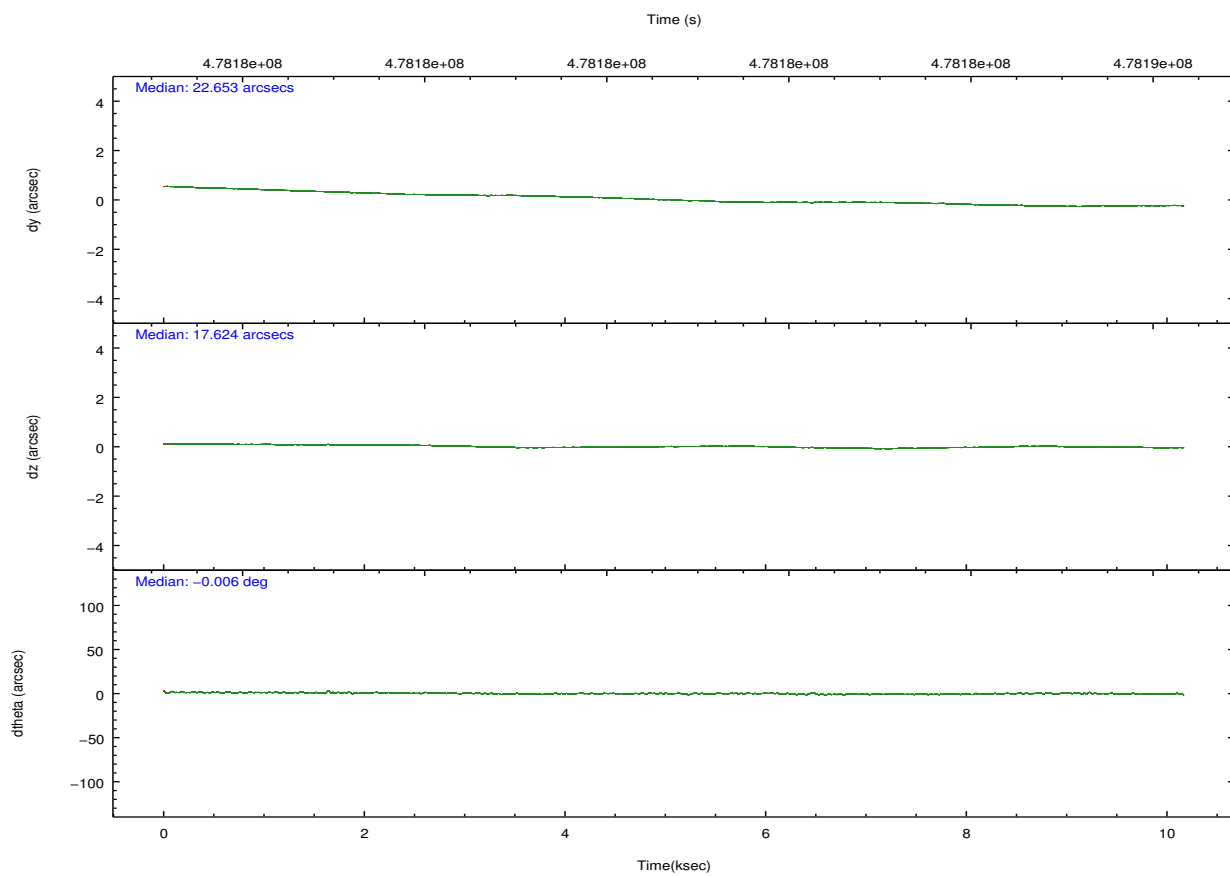
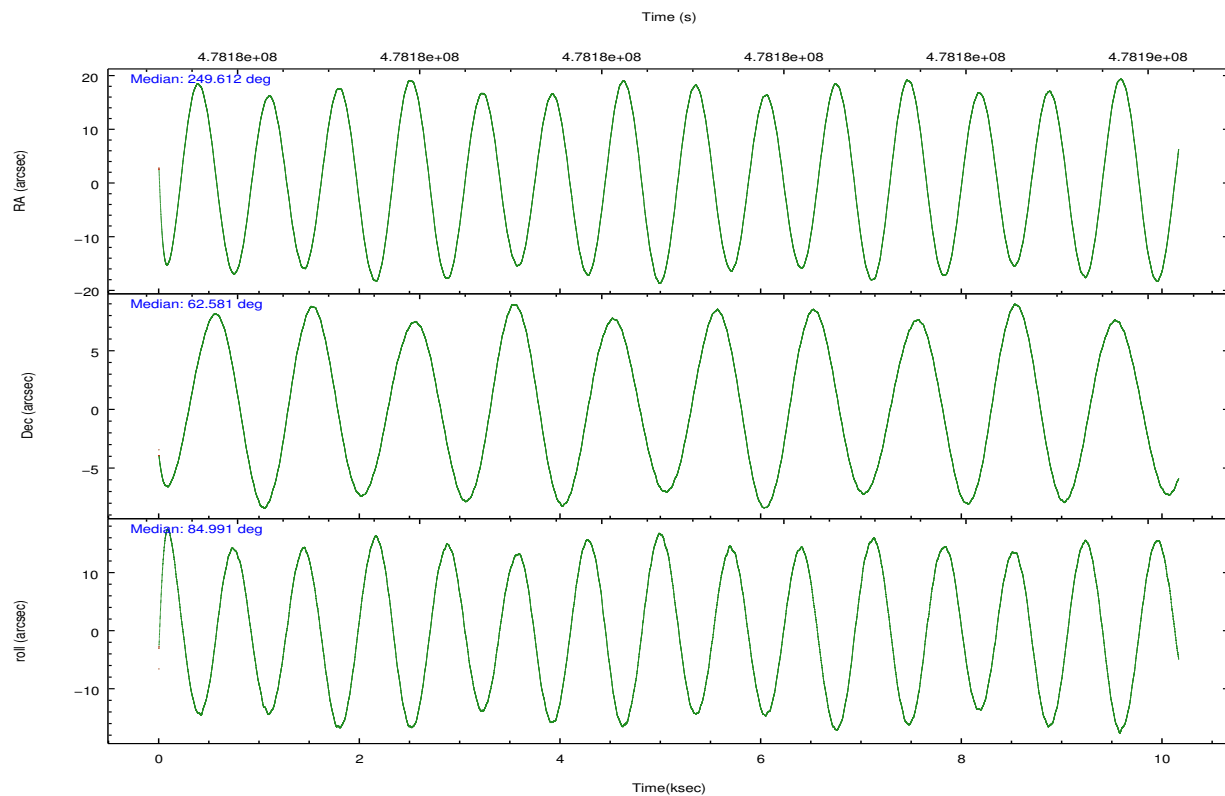
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2203	2317	2911	5782
	4%	4%	3%	7%
grade 1 events	23	27	86	60
	0%	0%	0%	0%
grade 2 events	1344	1519	6626	4725
	2%	2%	8%	6%
grade 3 events	697	669	2829	2140
	1%	1%	3%	2%
grade 4 events	693	668	2789	2157
	1%	1%	3%	2%
grade 5 events	2849	2901	7827	4254
	5%	5%	10%	5%
grade 6 events	1333	1527	17457	5351
	2%	2%	23%	7%
grade 7 events	43984	47082	34669	49165
	82%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	249.638095	249.6122179105551	CCD I2 on	N	N
[deg] Pointing Dec	62.556189	62.58078848099061	CCD I3 on	O1	Y
[deg] Pointing Roll	84.809567	84.98915044297631	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	478175815.184000	478174774.87472	CCD S5 on	N	N
Observation start date	2013-02-25T10:35:48	2013-02-25T10:19:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478185815.184000	478186041.16283	On-chip summing requested	N	N
Observation end date	2013-02-25T13:22:28	2013-02-25T13:27:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



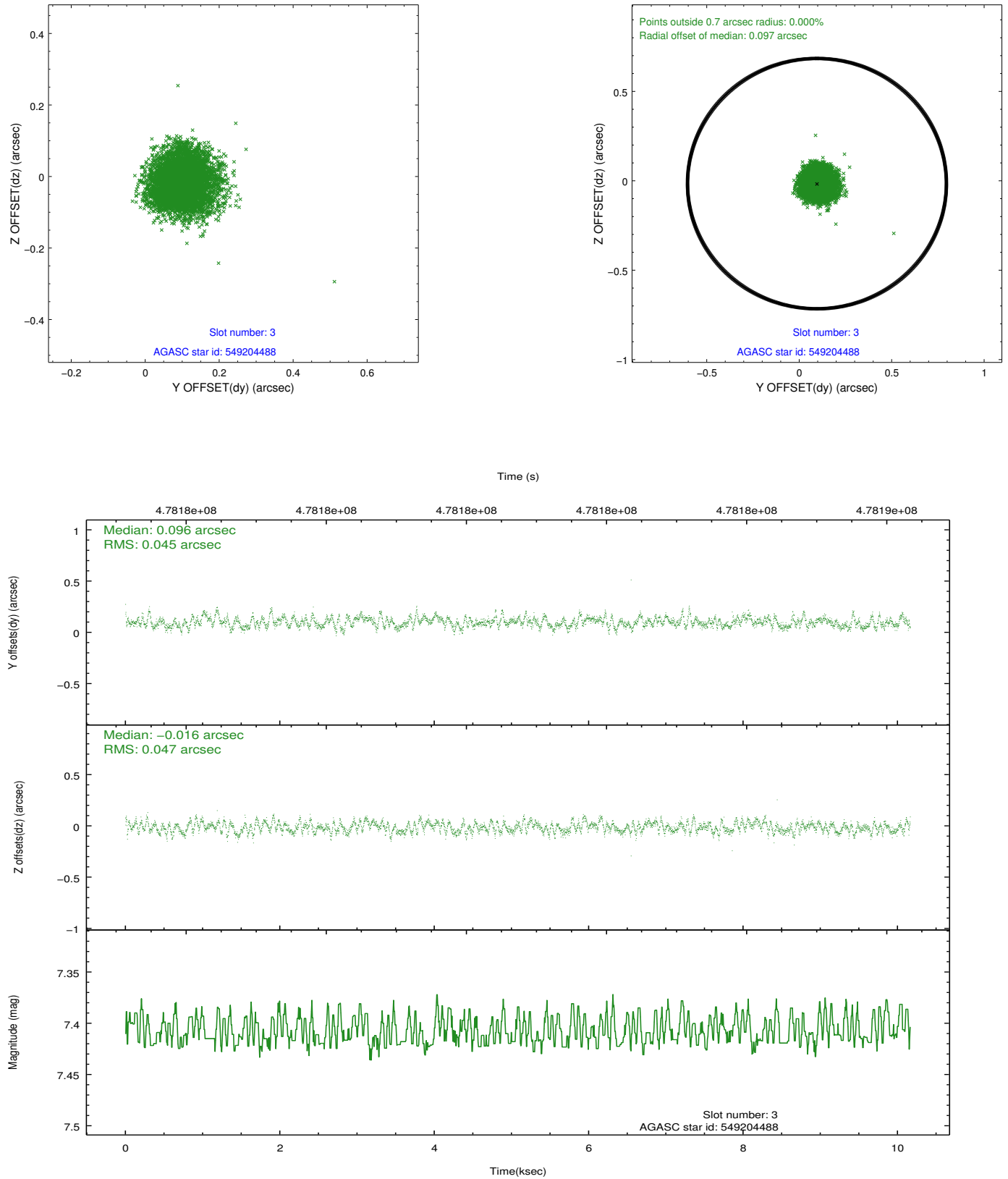


Slot Statistics

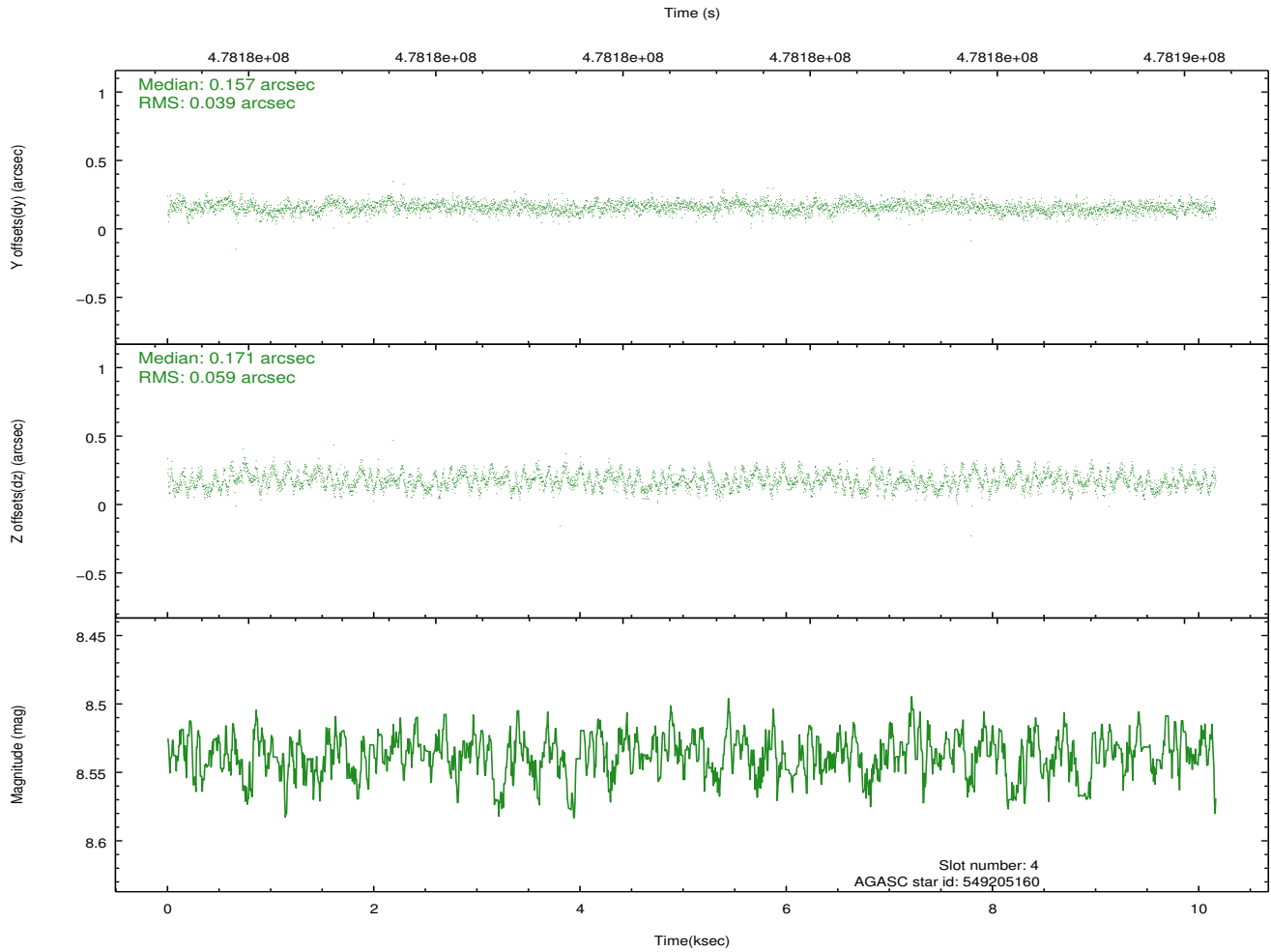
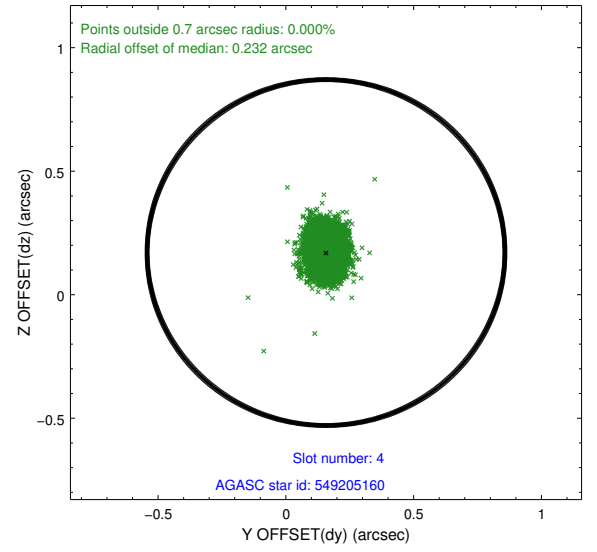
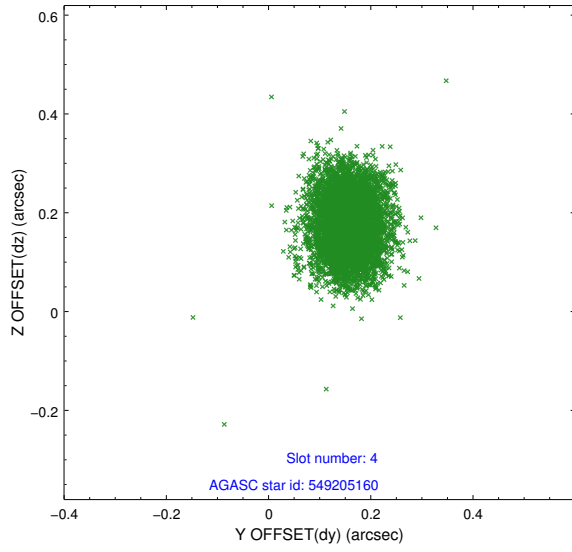
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	2480	0.117	-0.064	0.009	0.019	0.000000	0.000000	920.29	-1734.77
1	FID		ACIS-S-5	7.11	2478	-0.210	0.069	0.016	0.027	0.000000	0.000000	-1828.77	162.35
2	FID		ACIS-S-6	7.21	2480	0.074	0.007	0.016	0.025	0.000000	0.000000	385.21	806.86
3	GUIDE	used	549204488	7.41	4959	0.096	-0.016	0.069	0.110	250.276223	62.307988	-787.57	-1143.59
4	GUIDE	used	549205160	8.54	4953	0.157	0.171	0.074	0.122	249.902653	62.322080	-797.54	-516.75
5	GUIDE	used	549205848	8.80	4926	0.167	0.126	0.103	0.156	250.506974	62.267561	-892.88	-1542.83
6	GUIDE	used	549586616	8.24	4954	-0.048	0.127	0.078	0.127	250.806574	62.875165	1334.56	-1804.60
7	GUIDE	used	549604152	7.35	4958	-0.376	-0.406	0.081	0.132	248.648678	63.258957	2388.26	1827.01

2.4 Star Slots

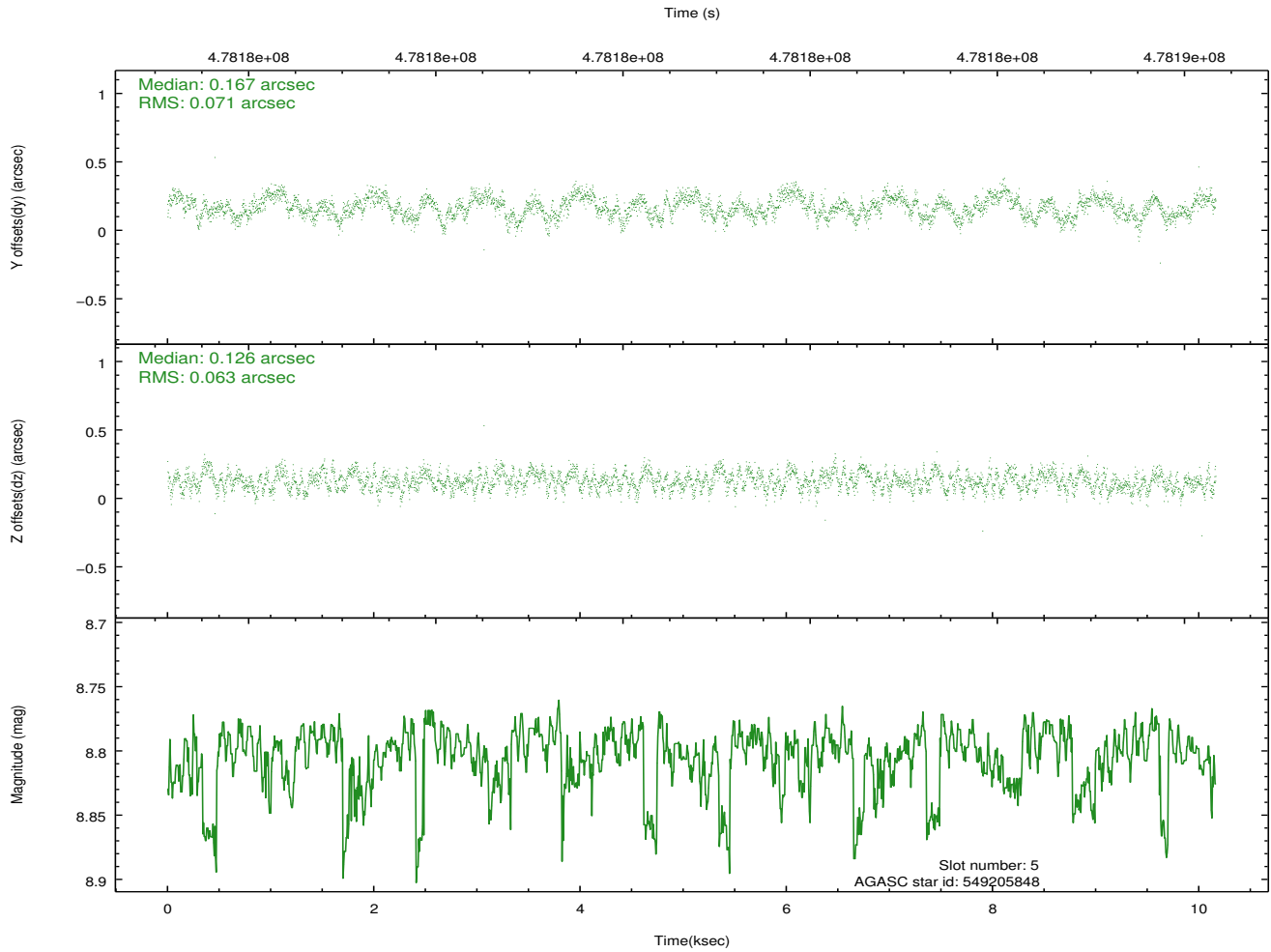
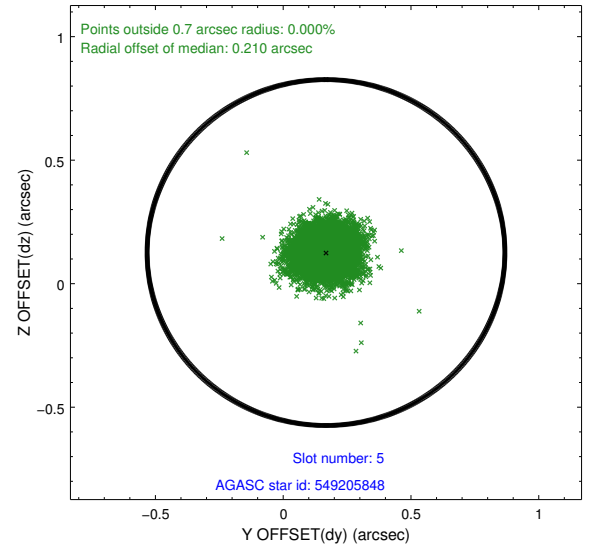
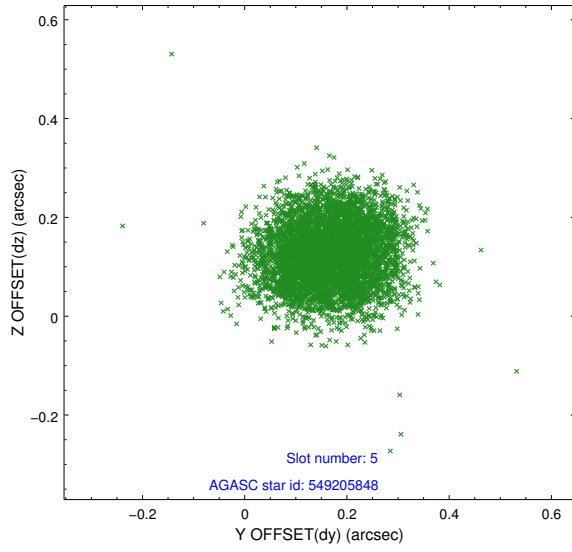
2.4.1 Slot 3



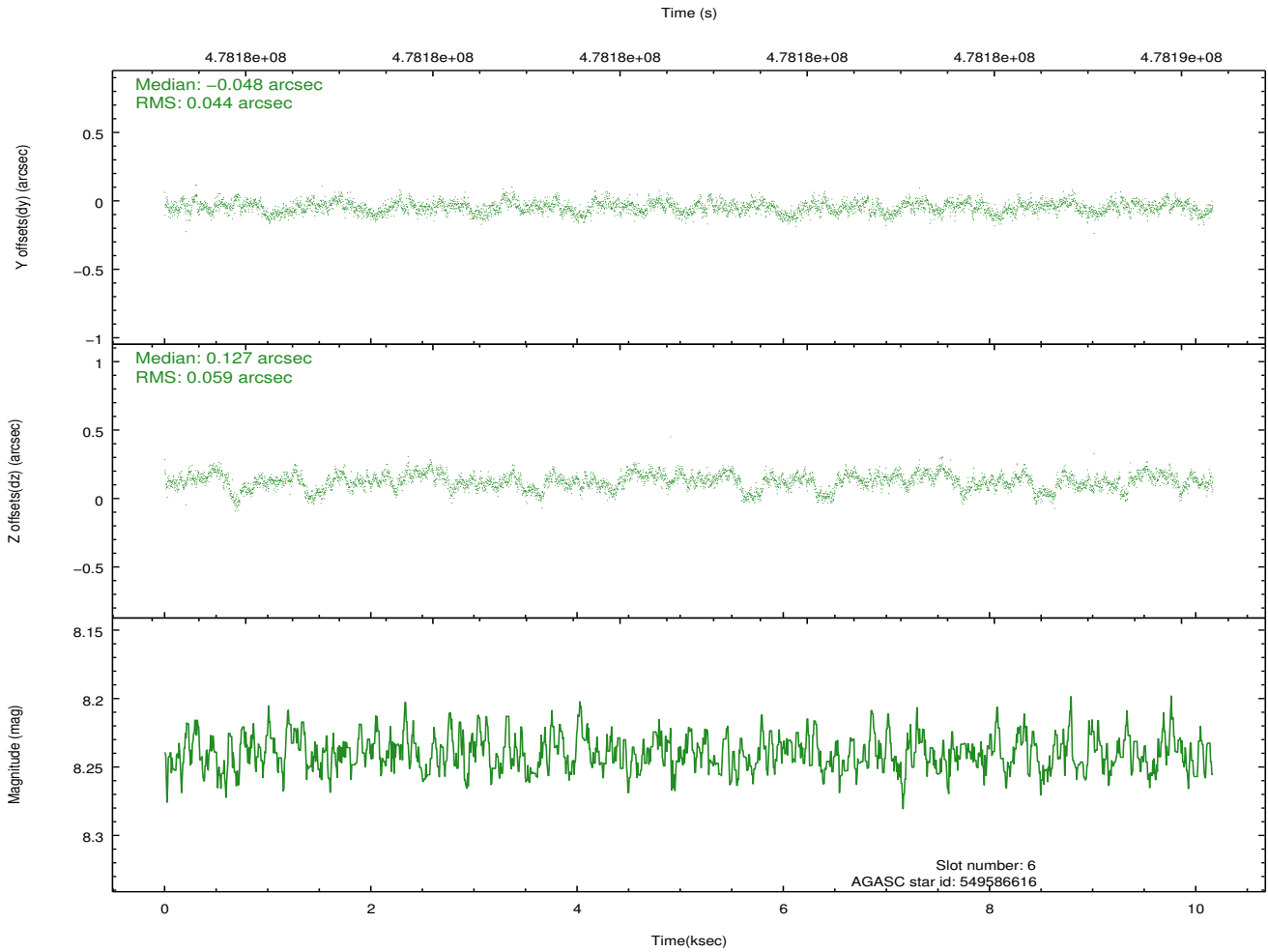
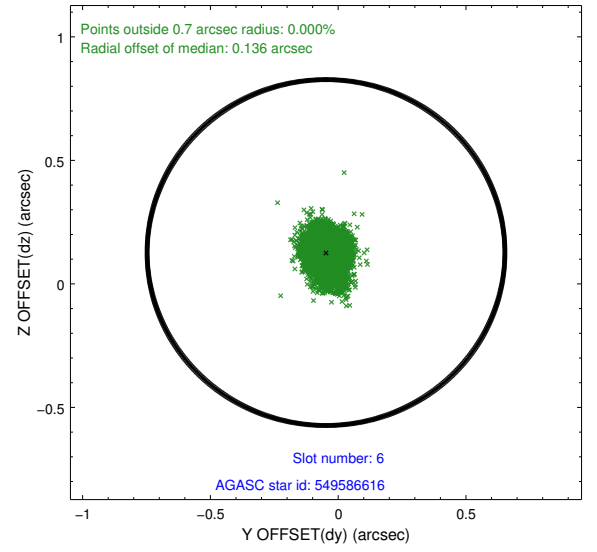
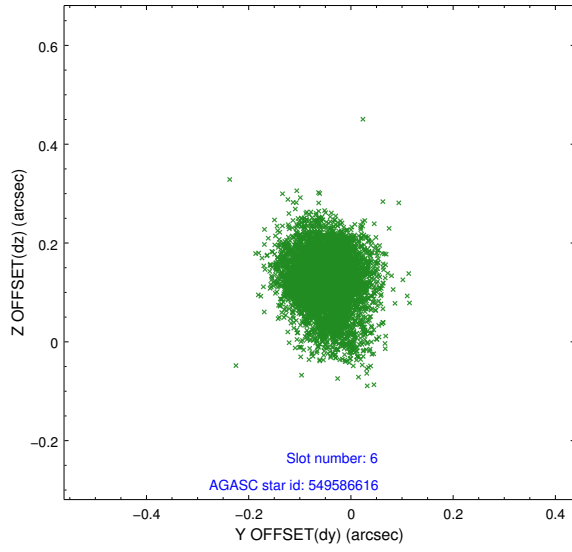
2.4.2 Slot 4



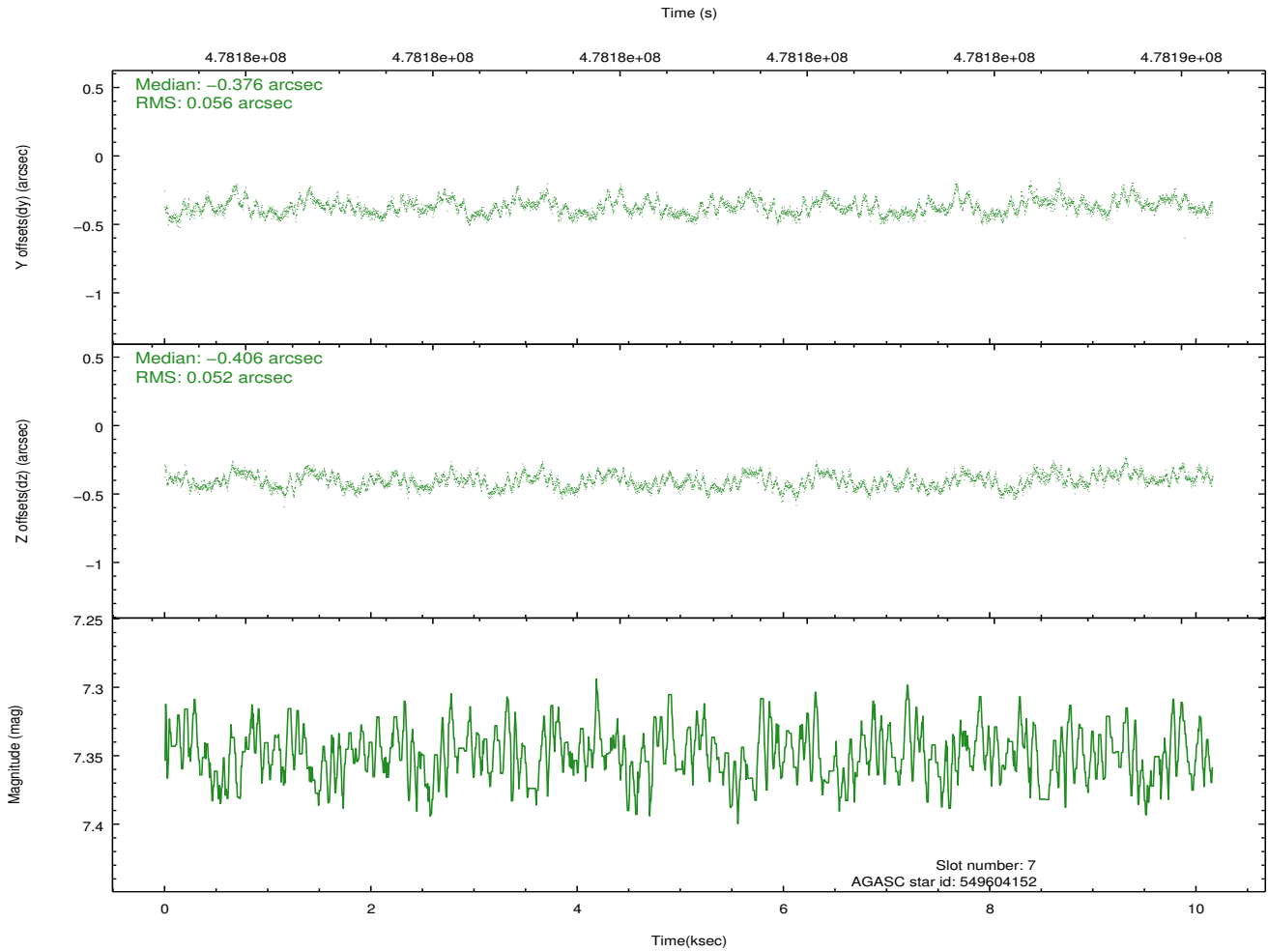
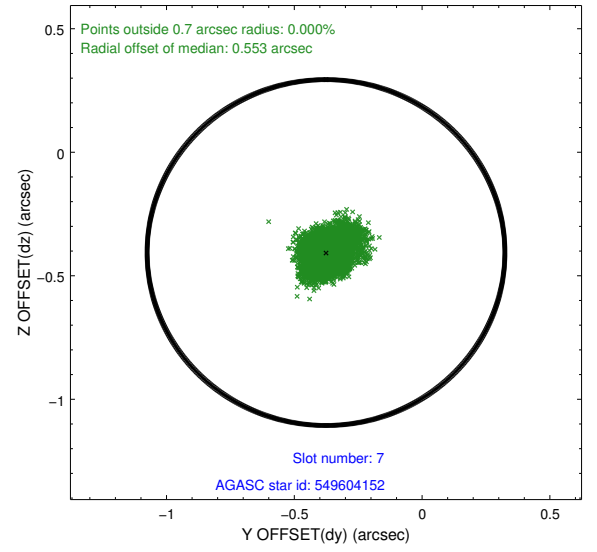
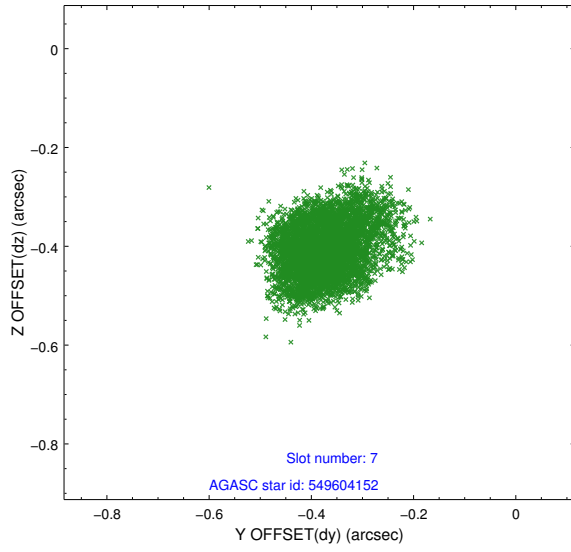
2.4.3 Slot 5



2.4.4 Slot 6

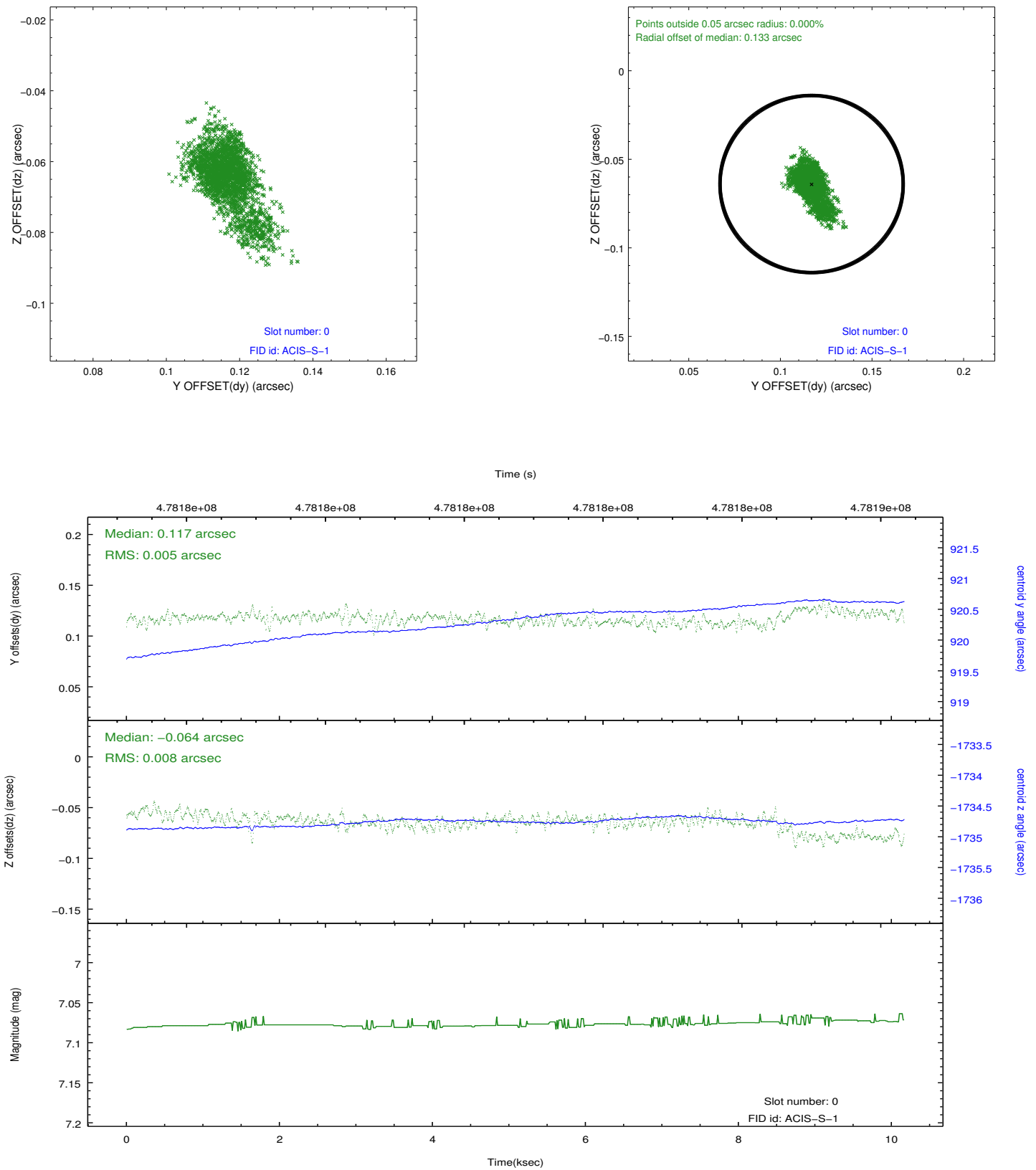


2.4.5 Slot 7

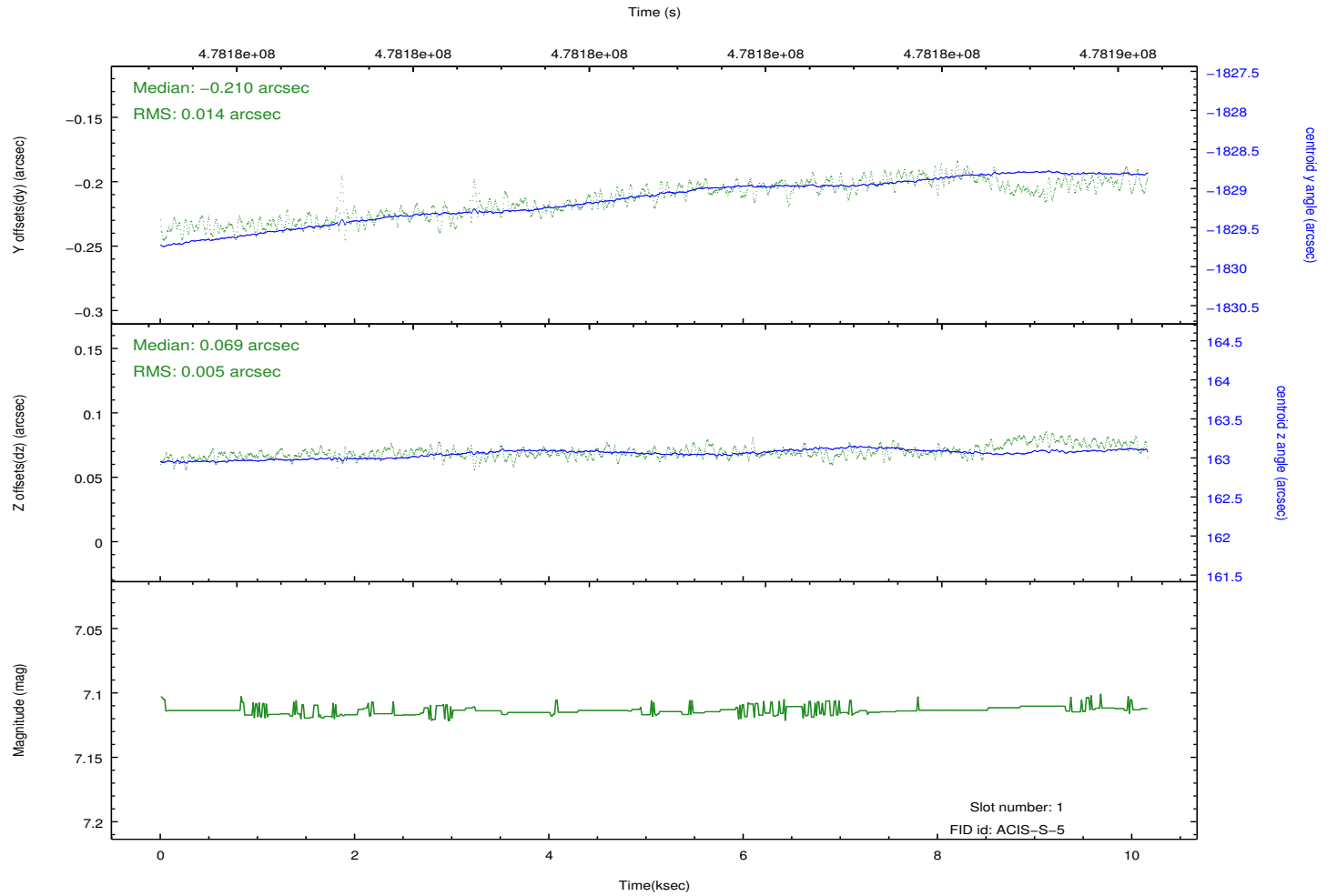
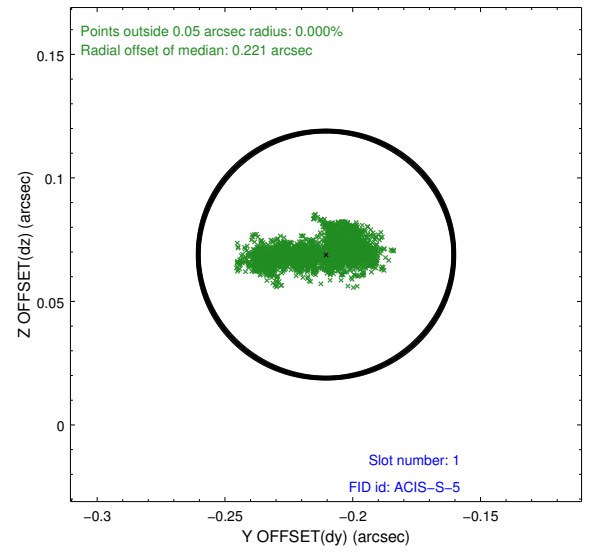
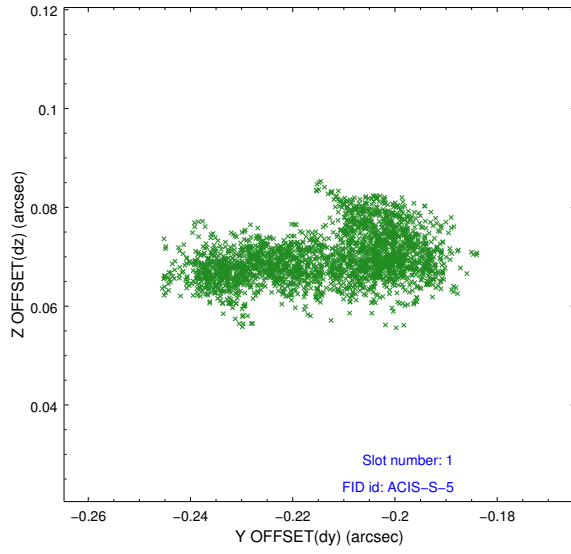


2.5 FID Slots

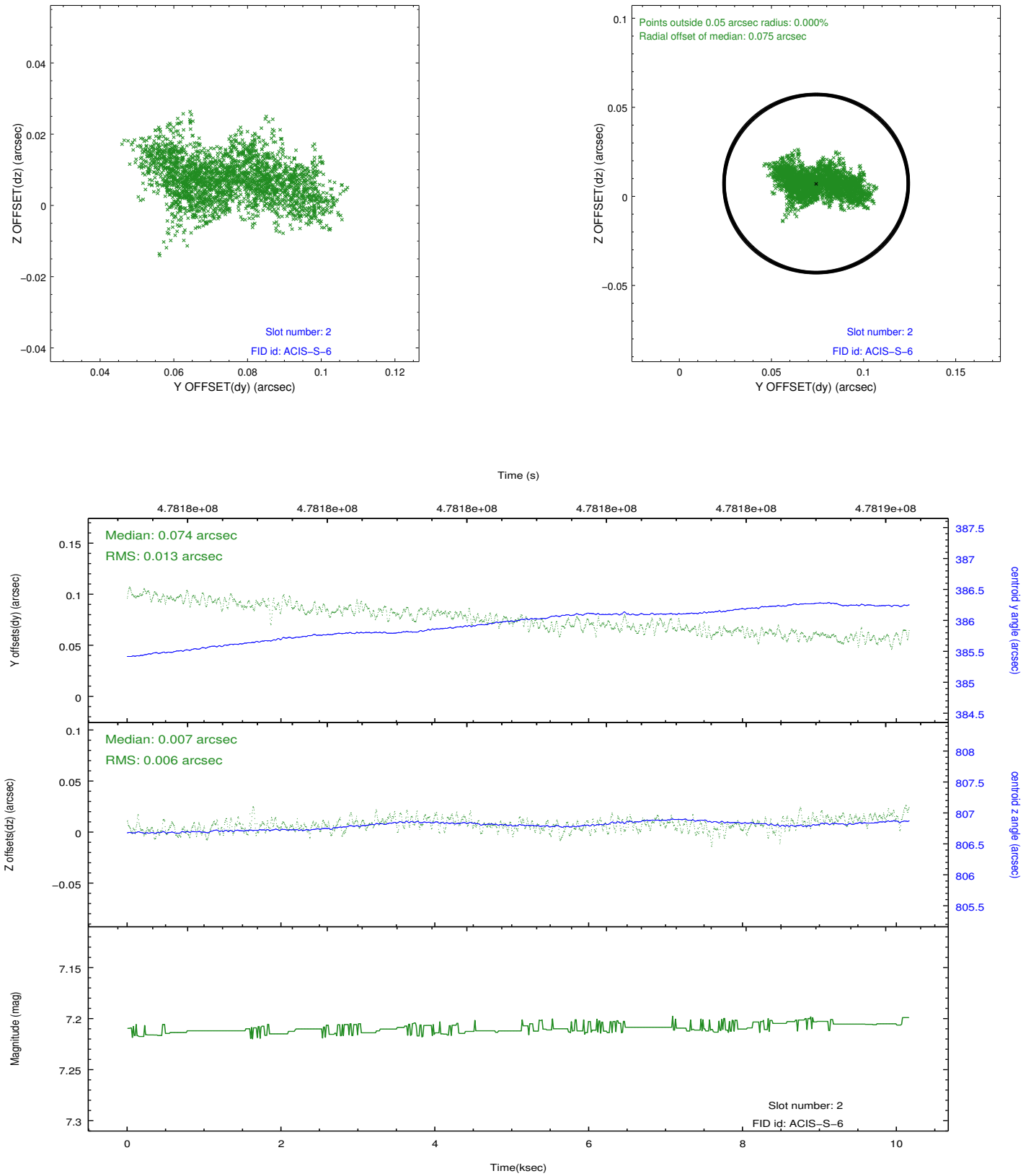
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.074261382043

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.