

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15975 - L2 Version 2
Chandra X-Ray Center

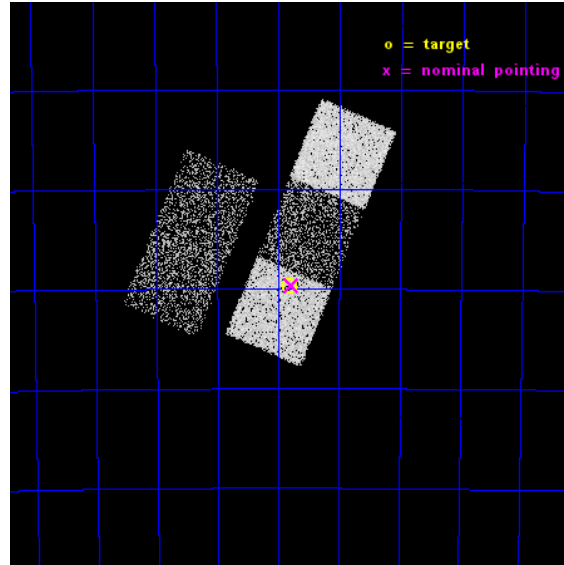
L2 Processing Date : Dec 9 2014

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1 Front

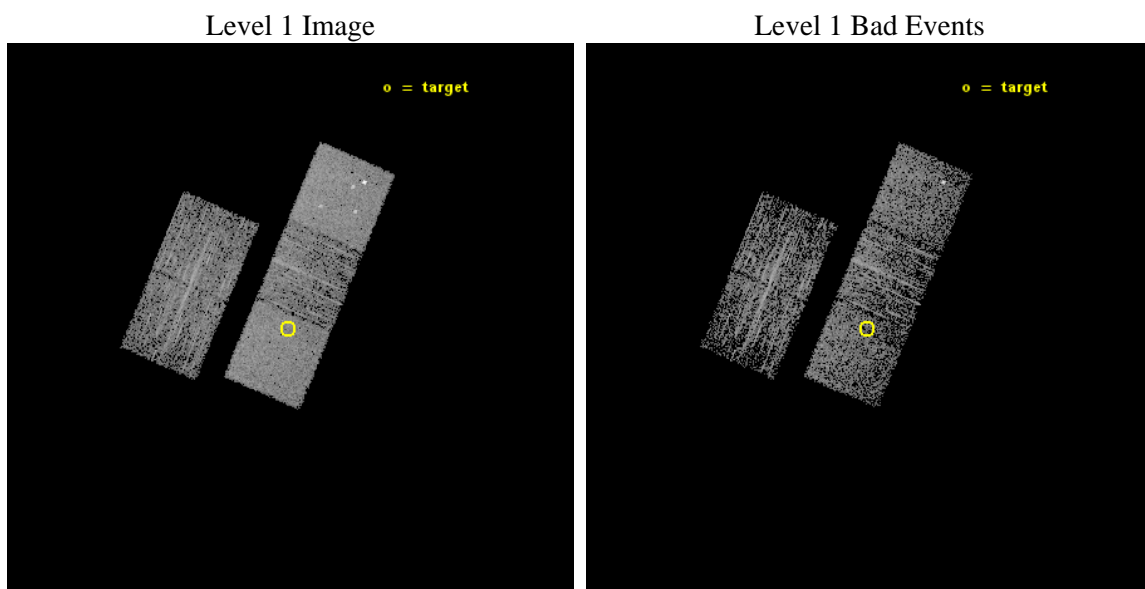
seq_num	502208	Sequence number
obs_id	15975	Observation id
title	Where Have All The Central Compact Objects Gone?	Proposal title
observer	Dr. Eric Gotthelf	Principal investigator
object	PSR J1607-6449	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.952917	Observer's specified target RA [deg]
dec_targ	-64.828611	Observer's specified target Dec [deg]
ra_nom	241.94598303828	Nominal RA [deg]
dec_nom	-64.827962164384	Nominal Dec [deg]
roll_nom	112.96192910334	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3565.0000274181	Sum of GTIs [s]
livetime	3518.4206775451	Livetime [s]
ontime2	3565.0000274181	Sum of GTIs [s]
ontime3	3565.0000274181	Sum of GTIs [s]
ontime5	3565.0000274181	Sum of GTIs [s]
ontime6	3565.0000274181	Sum of GTIs [s]
ontime7	3565.0000274181	Sum of GTIs [s]
l2events	27840	Number of level 2 events



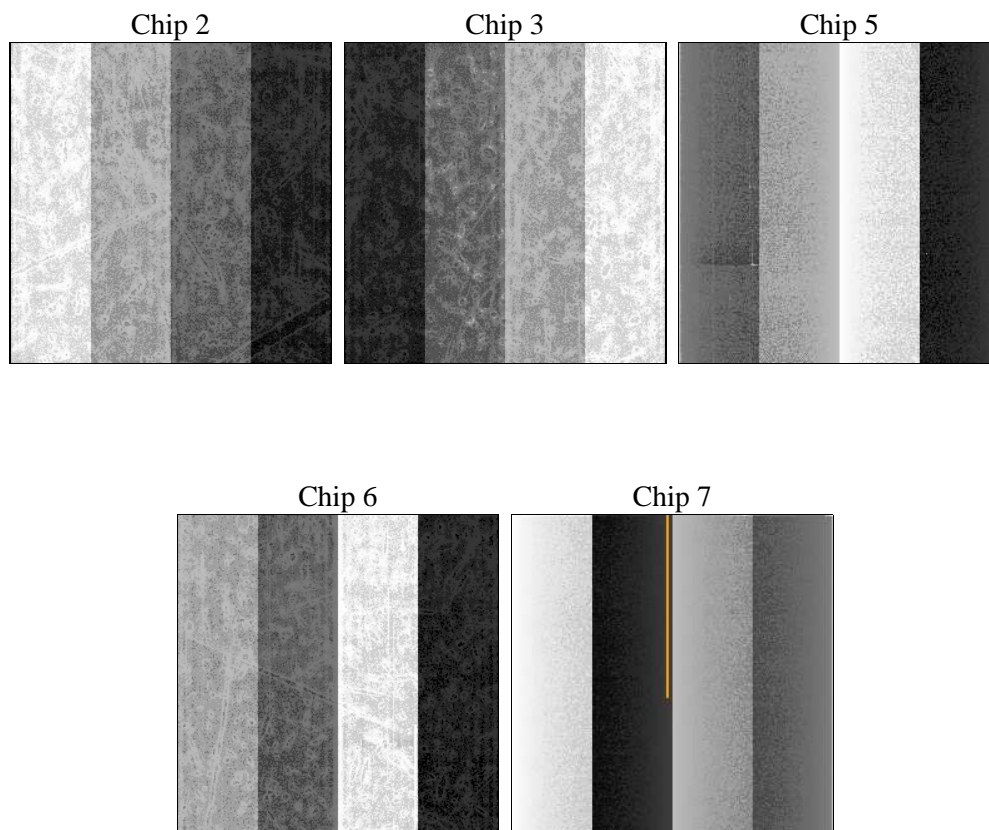
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3565.0000274181	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3565.0000274181	Sum of GTIs [s]
date	2014-12-09T23:25:15	Date and time of file creation	ontime3	3565.0000274181	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3565.0000274181	Sum of GTIs [s]
			ontime6	3565.0000274181	Sum of GTIs [s]
			ontime7	3565.0000274181	Sum of GTIs [s]
			l1events	102686	Number of level 1 events

2.1.4 Events

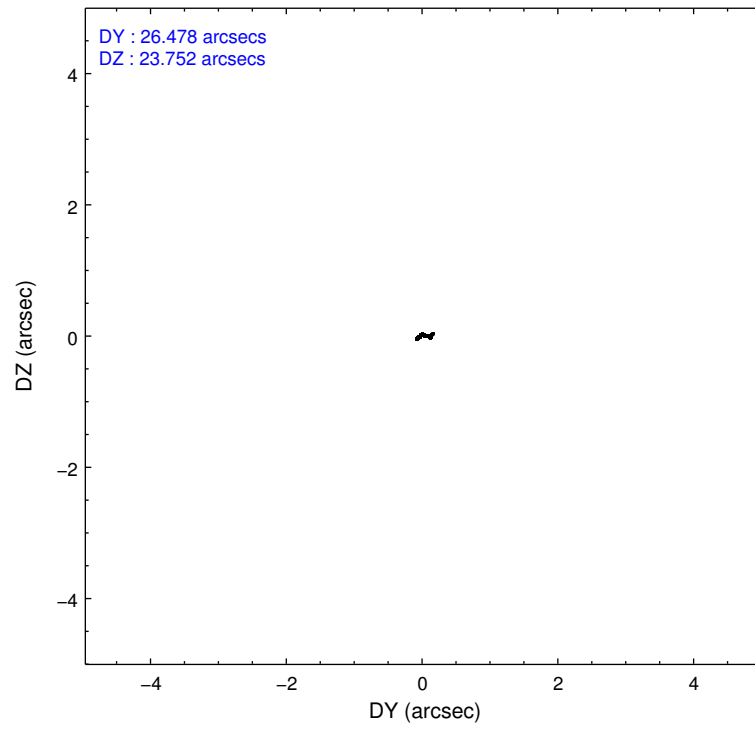
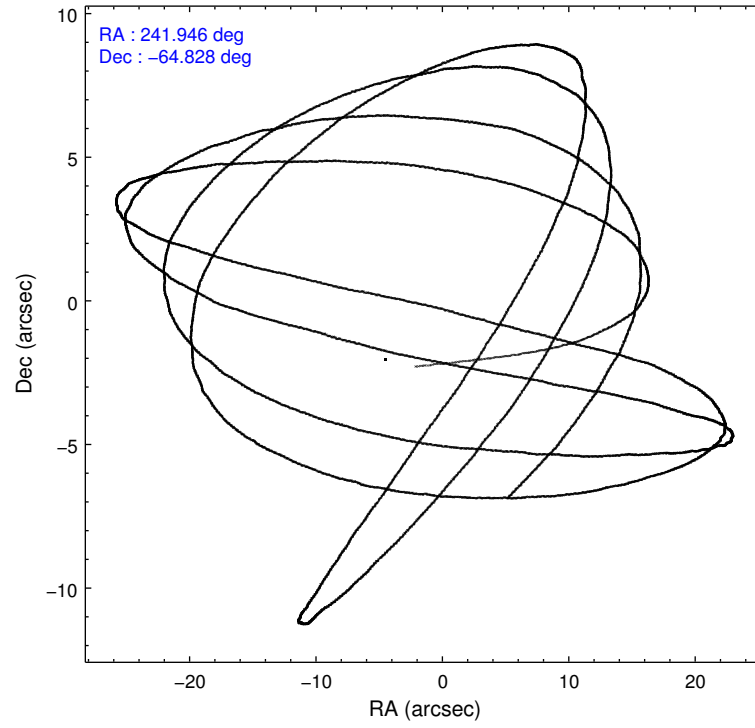
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	16750	15056	30551	16673	23656
rejected events	14860	13169	15331	14664	13405
rejected %	88%	87%	50%	87%	56%

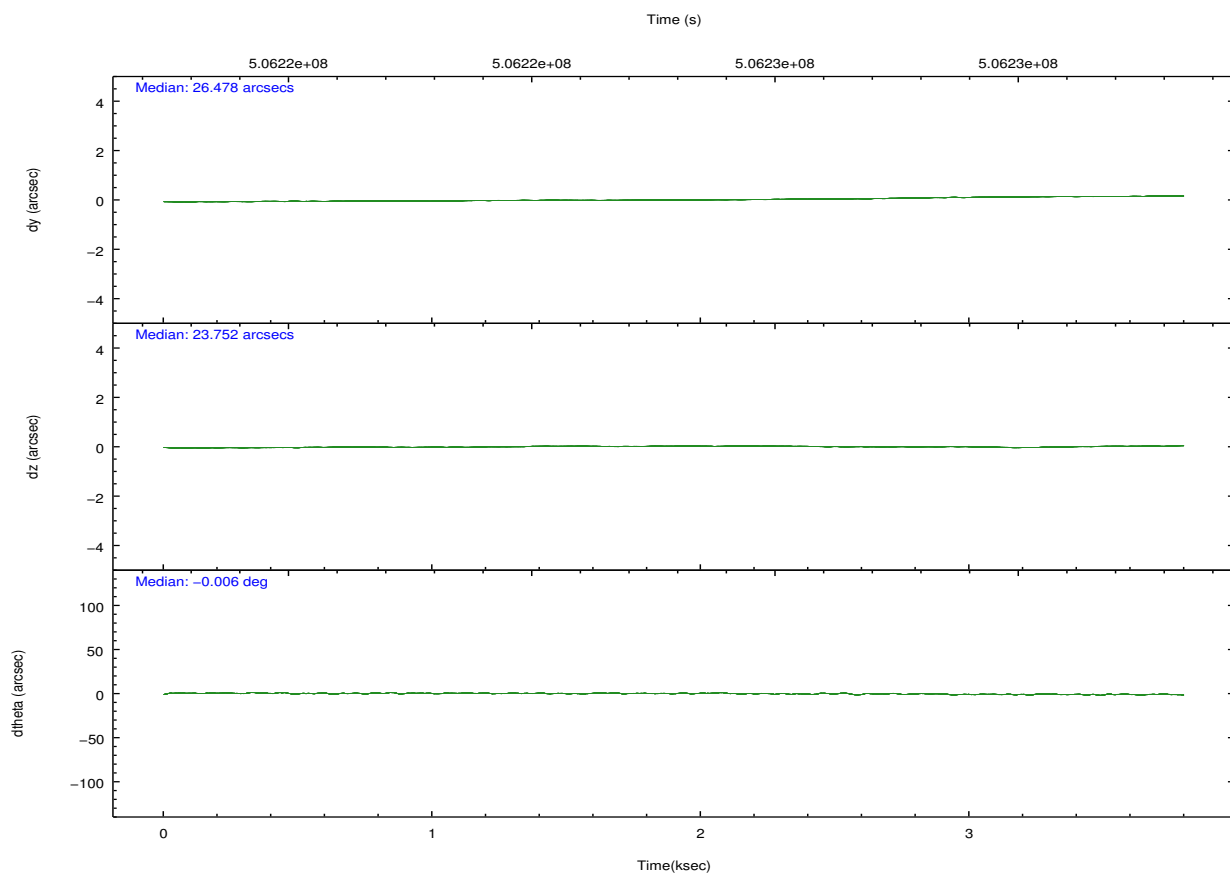
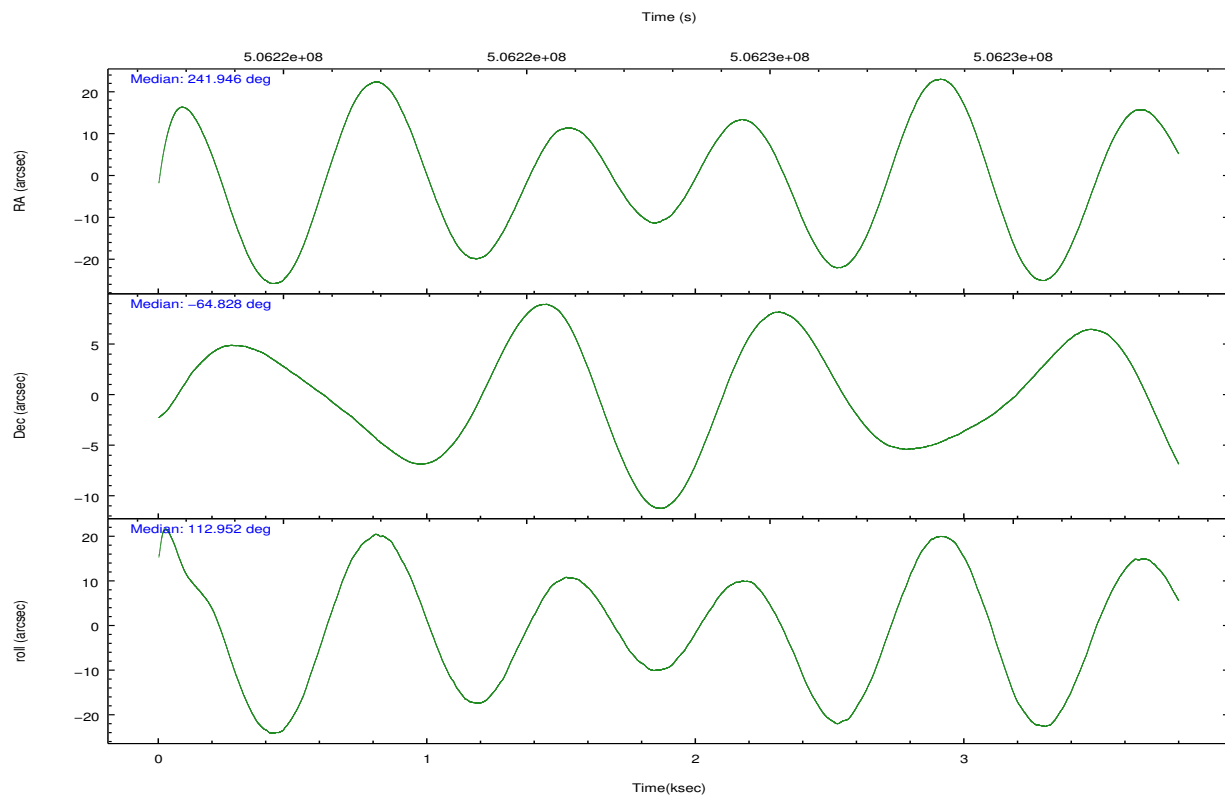
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	670	672	2085	689	927
	4%	4%	6%	4%	3%
grade 1 events	10	12	45	4	29
	0%	0%	0%	0%	0%
grade 2 events	458	428	4901	451	2120
	2%	2%	16%	2%	8%
grade 3 events	183	190	491	191	858
	1%	1%	1%	1%	3%
grade 4 events	205	193	471	216	866
	1%	1%	1%	1%	3%
grade 5 events	729	892	2358	881	2488
	4%	5%	7%	5%	10%
grade 6 events	378	408	7300	467	5505
	2%	2%	23%	2%	23%
grade 7 events	14117	12261	12900	13774	10863
	84%	81%	42%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	241.997766	241.9459830382843	CCD I2 on	O2	Y
[deg] Pointing Dec	-64.844261	-64.82796216438366	CCD I3 on	O3	Y
[deg] Pointing Roll	112.852124	112.9619291033355	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	506223981.184000	506222983.5155	CCD S5 on	N	N
Observation start date	2014-01-16T01:45:14	2014-01-16T01:29:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	506227481.184000	506228183.85329	On-chip summing requested	N	N
Observation end date	2014-01-16T02:43:34	2014-01-16T02:56:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



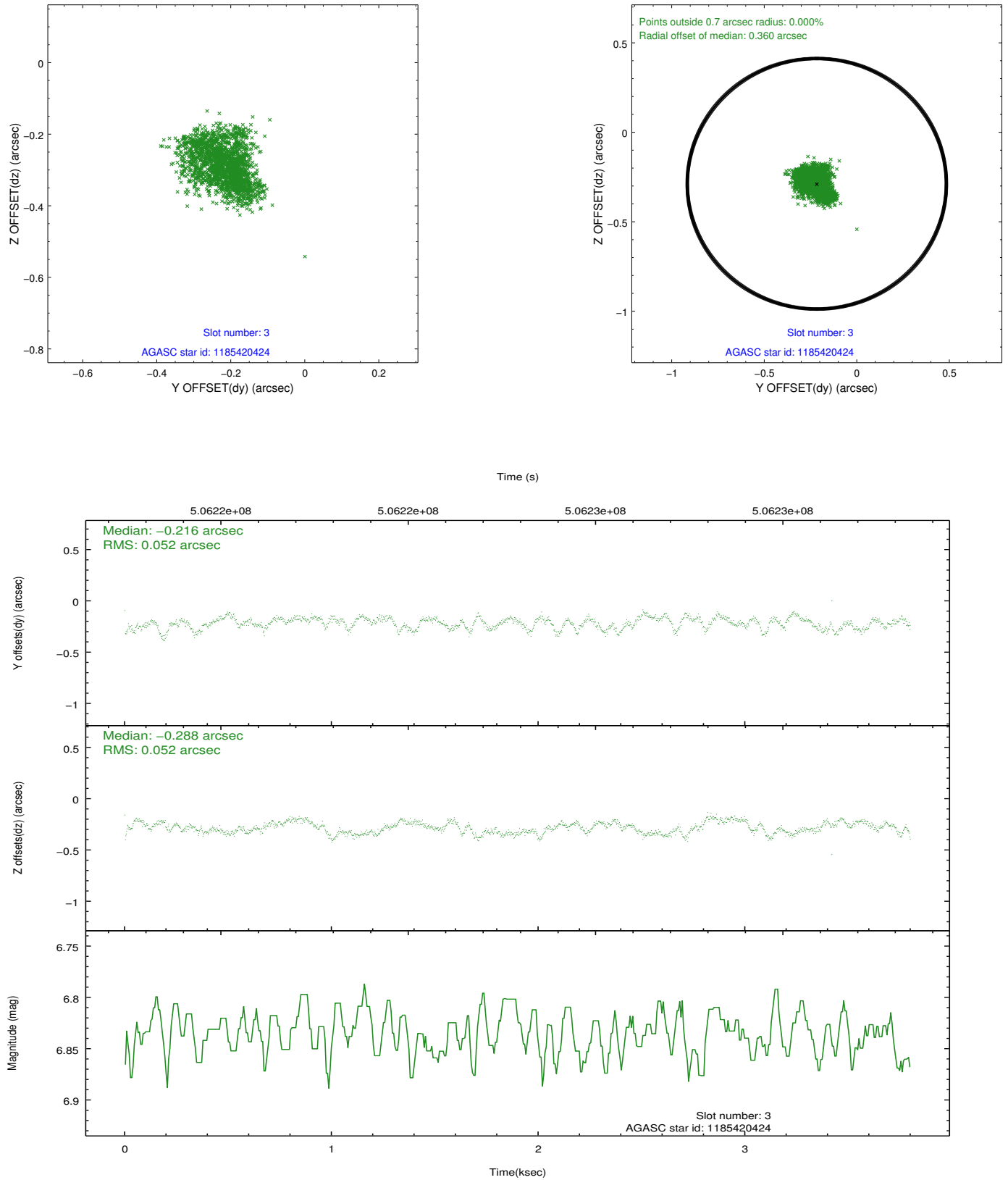


Slot Statistics

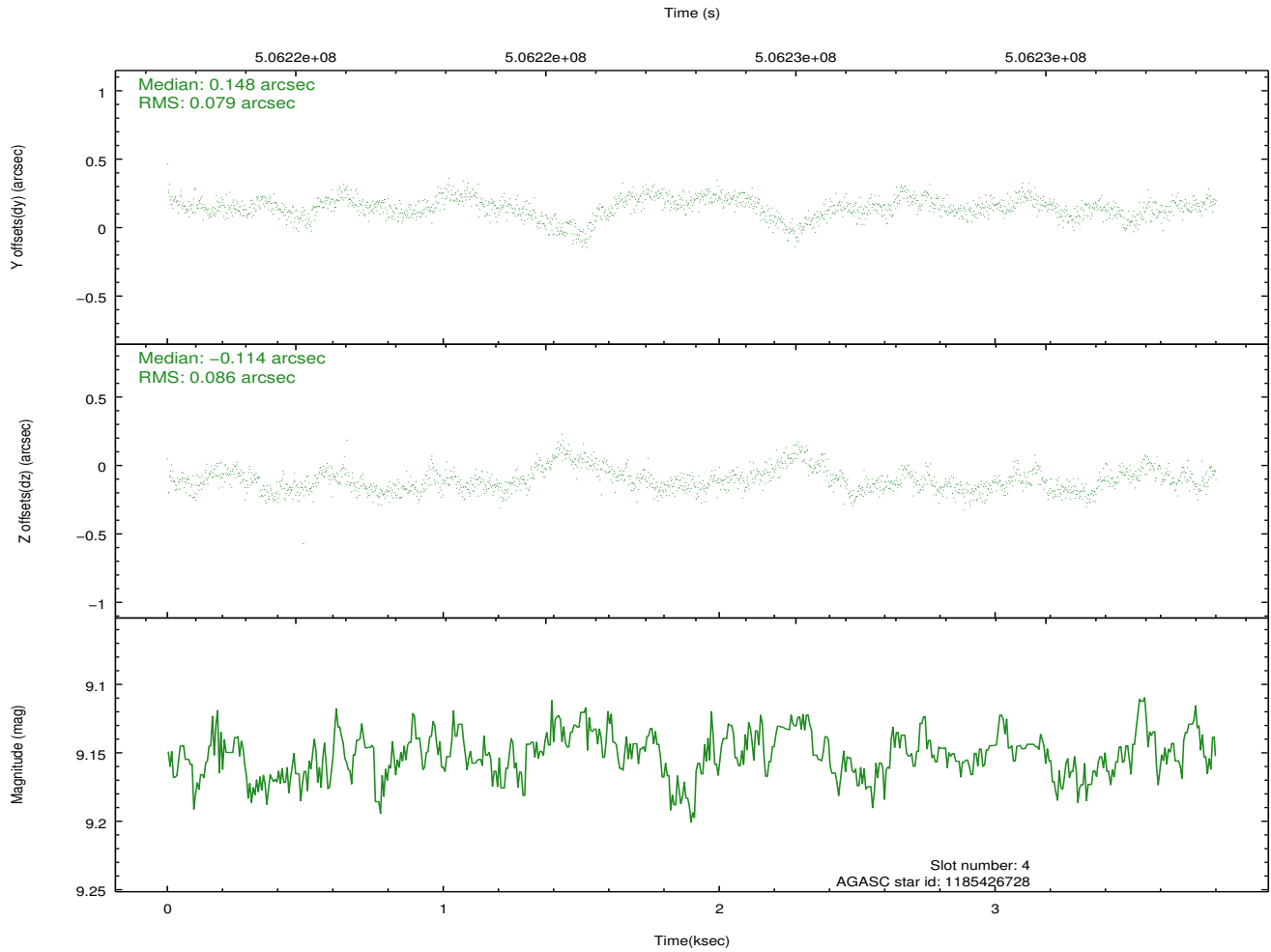
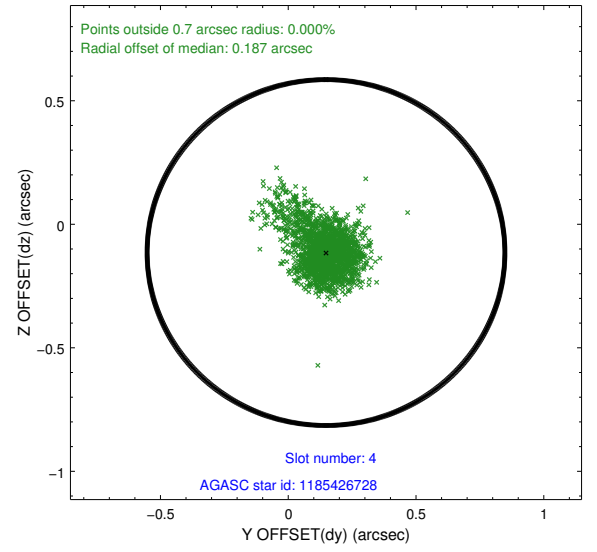
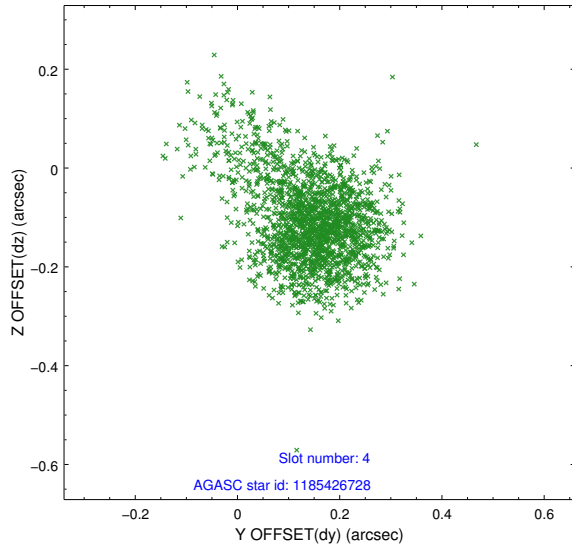
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	927	-0.010	0.040	0.007	0.011	0.000000	0.000000	916.26	-1740.89
1	FID		ACIS-S-4	7.02	927	0.222	-0.018	0.006	0.010	0.000000	0.000000	2134.77	161.51
2	FID		ACIS-S-5	7.06	927	-0.238	-0.009	0.006	0.013	0.000000	0.000000	-1830.76	156.92
3	GUIDE	used	1185420424	6.84	1854	-0.216	-0.288	0.081	0.122	241.687835	-64.561596	1122.36	47.32
4	GUIDE	used	1185426728	9.15	1853	0.148	-0.114	0.116	0.221	241.379891	-65.052442	-330.31	1158.03
5	GUIDE	used	1185434456	7.92	1854	0.223	0.497	0.081	0.130	243.366648	-64.985654	-1298.91	-1712.02
6	GUIDE	used	1185429096	8.77	1851	-0.040	-0.466	0.094	0.148	240.654244	-65.206597	-435.62	2382.90
7	GUIDE	used	1185427712	8.37	1852	-0.104	0.358	0.096	0.161	242.957475	-64.098307	1878.03	-2426.81

2.4 Star Slots

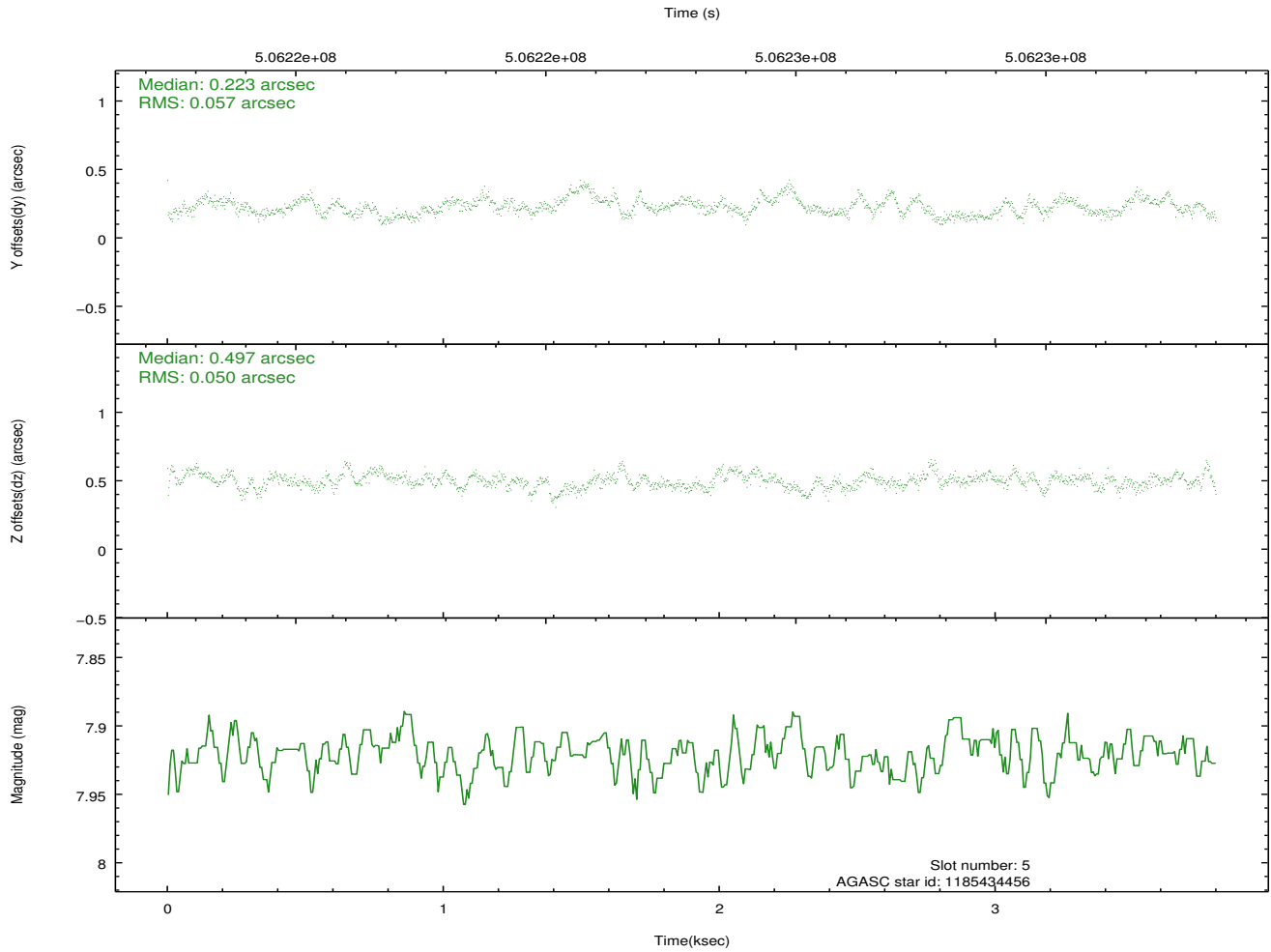
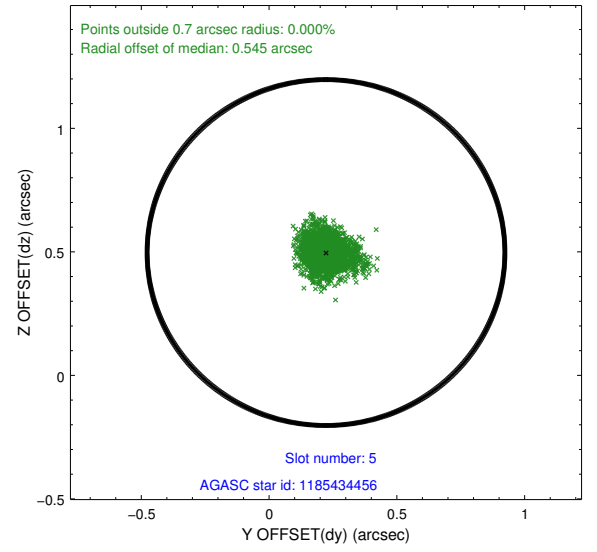
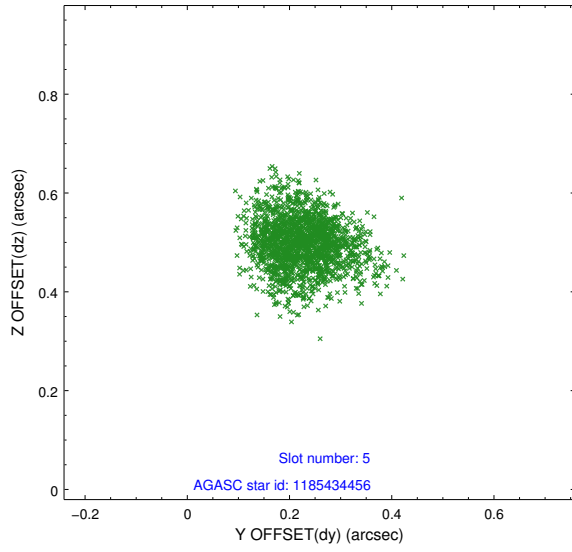
2.4.1 Slot 3



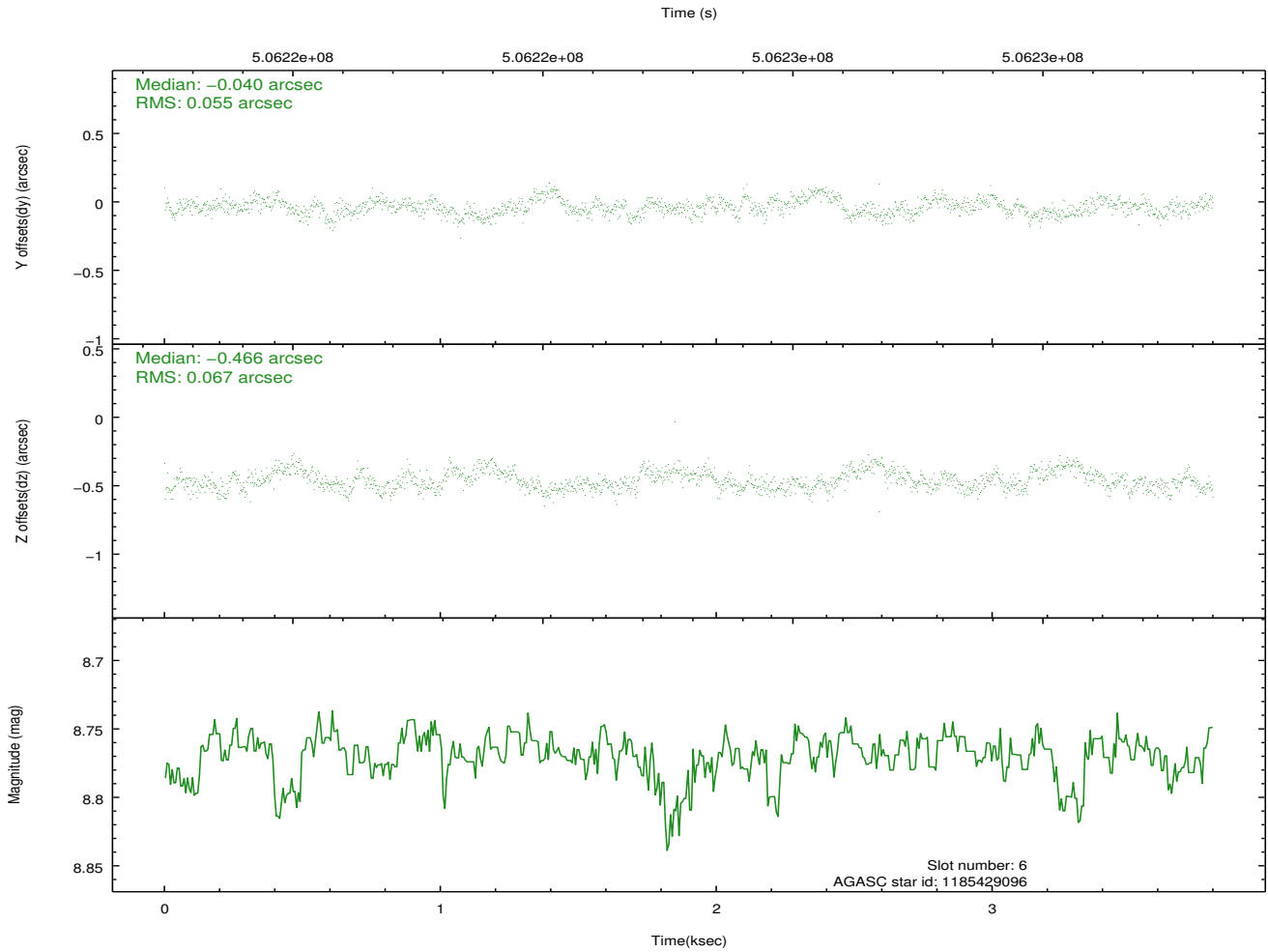
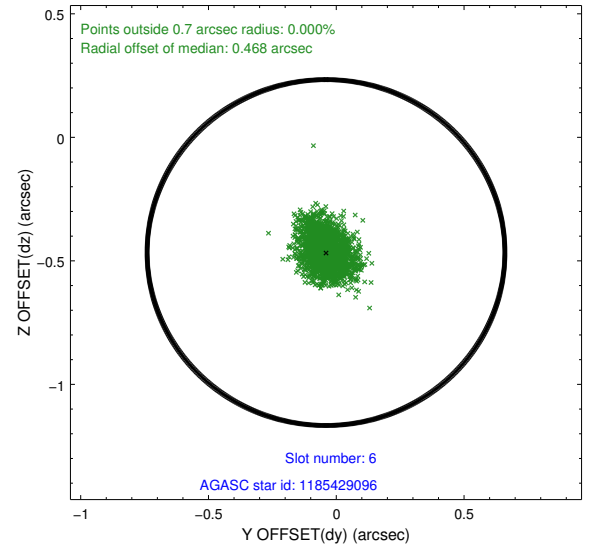
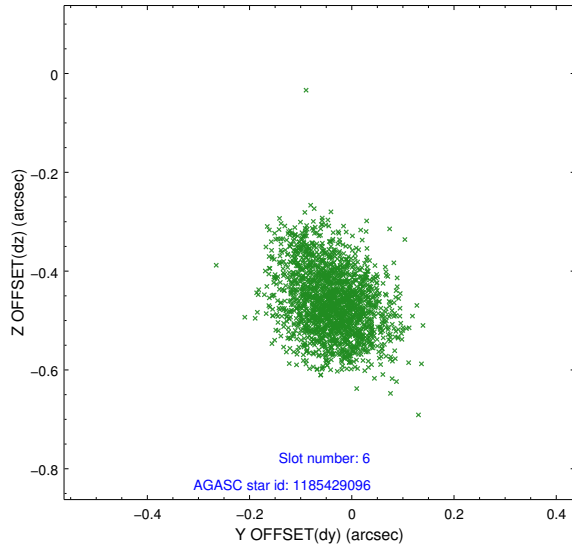
2.4.2 Slot 4



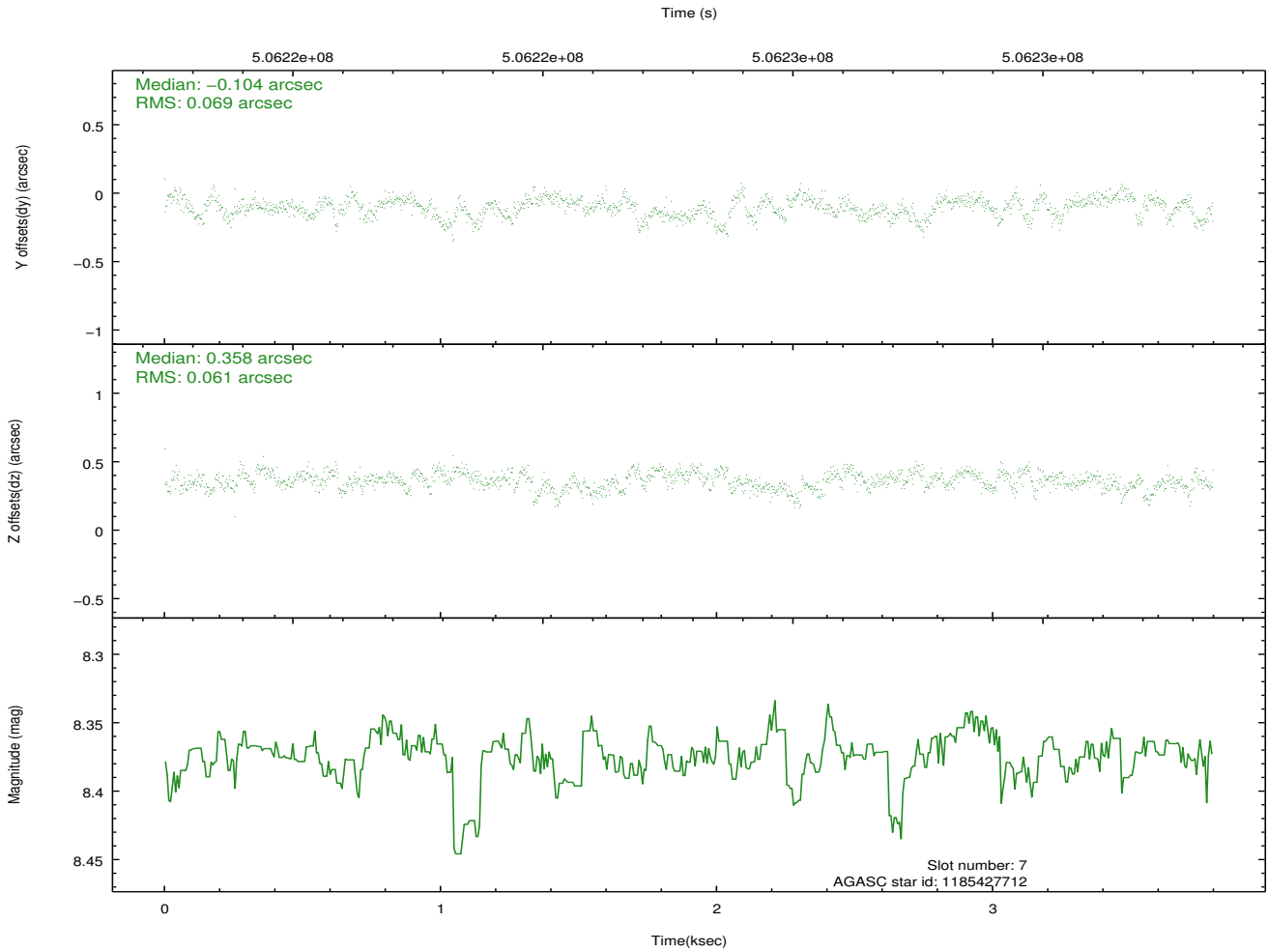
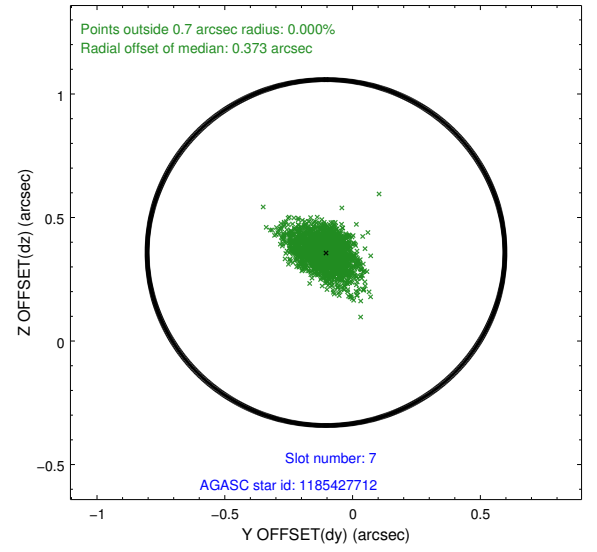
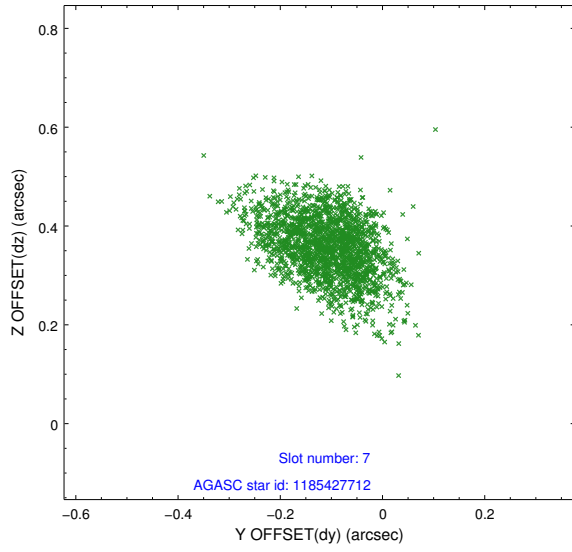
2.4.3 Slot 5



2.4.4 Slot 6

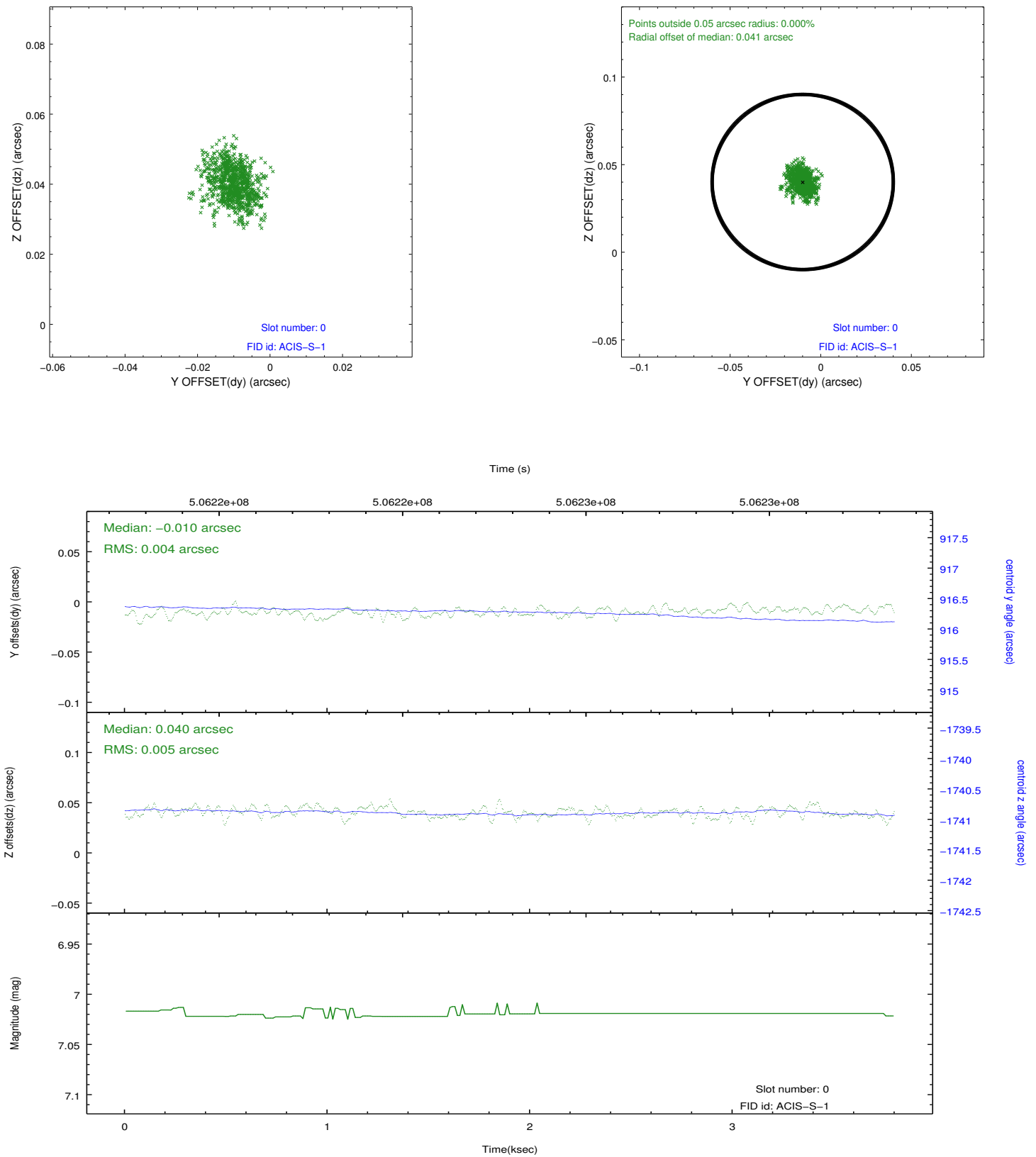


2.4.5 Slot 7

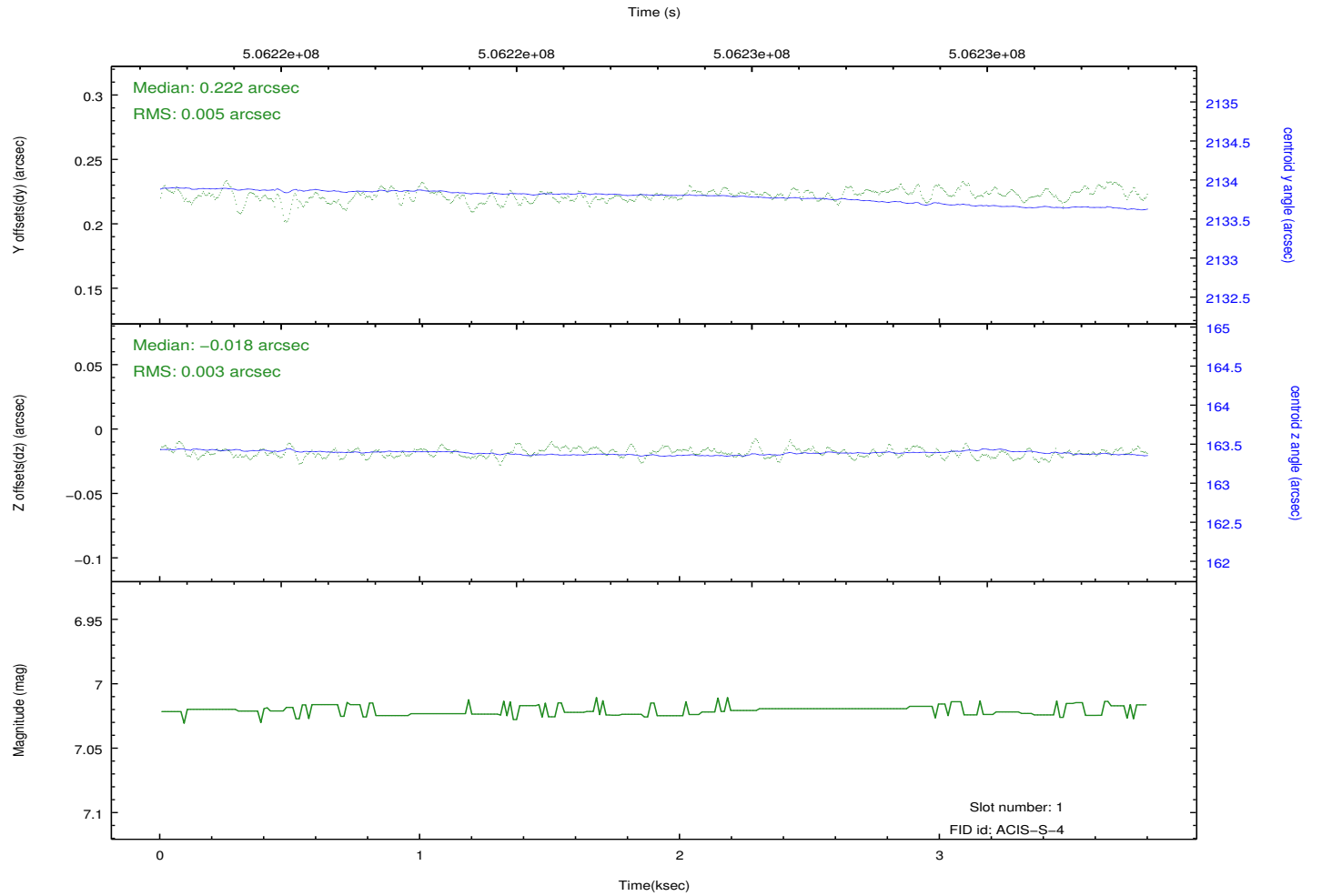
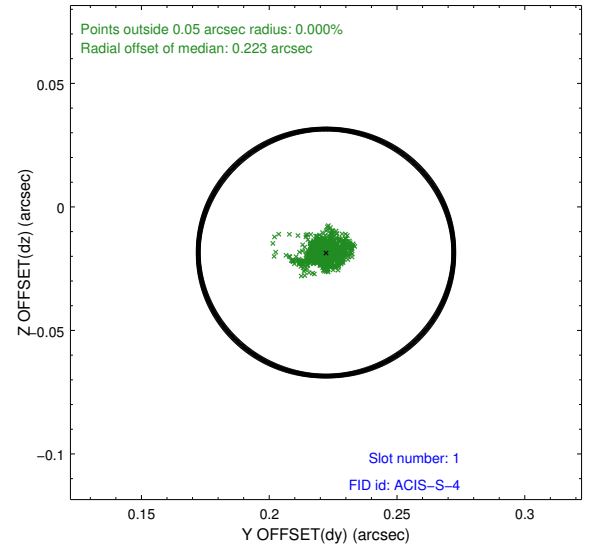
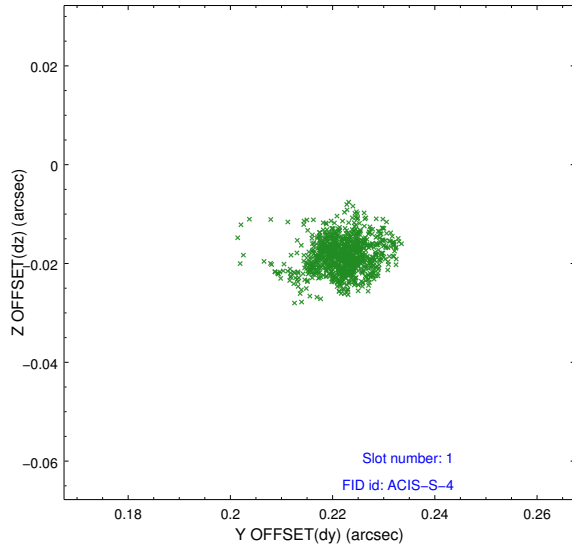


2.5 FID Slots

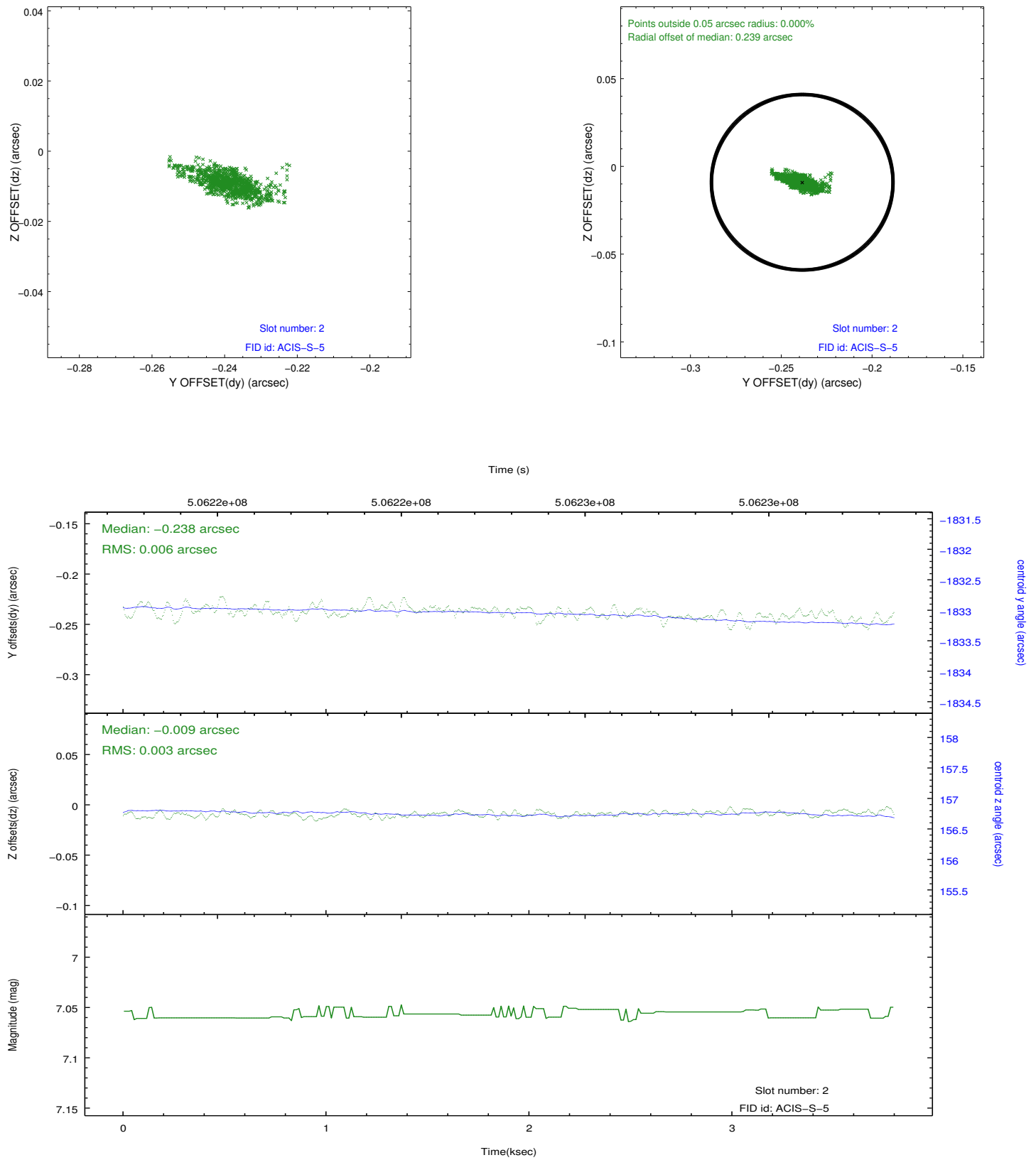
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5650000274181

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.