

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15981 - L2 Version 2
Chandra X-Ray Center

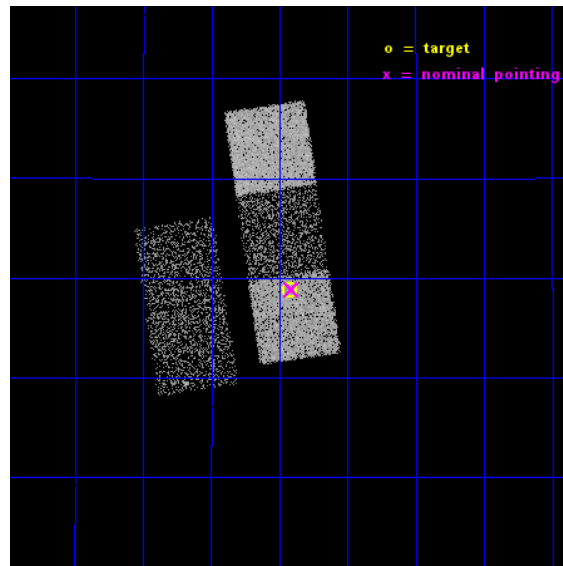
L2 Processing Date : Dec 10 2014

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1 Front

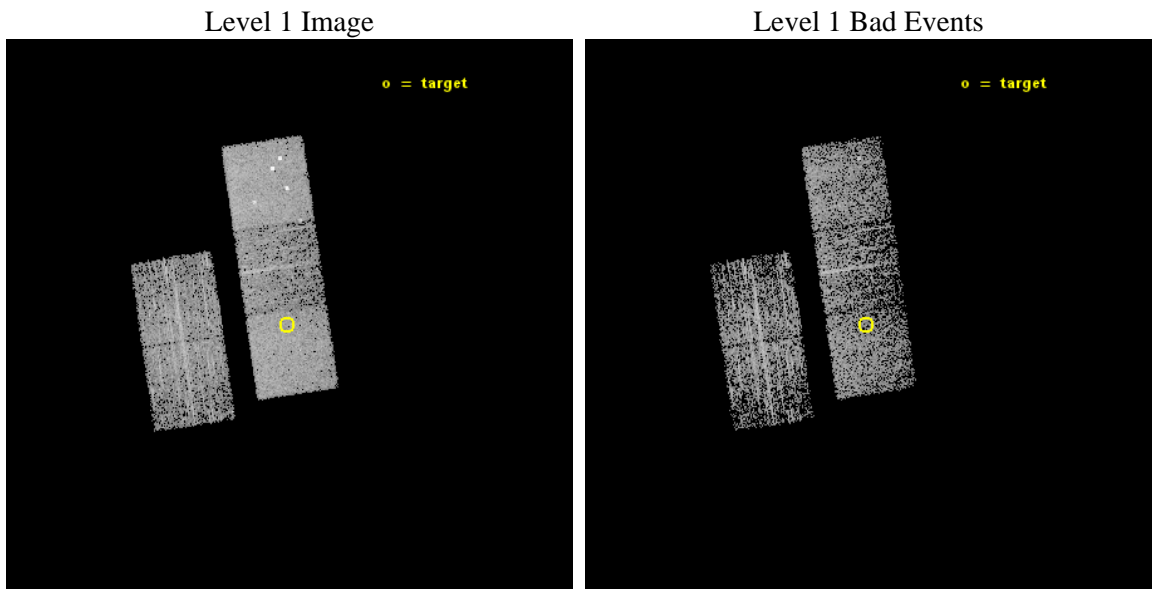
seq_num	502214	Sequence number
obs_id	15981	Observation id
title	Where Have All The Central Compact Objects Gone?	Proposal title
observer	Dr. Eric Gotthelf	Principal investigator
object	PSR J1911+1758	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.980417	Observer's specified target RA [deg]
dec_targ	17.979361	Observer's specified target Dec [deg]
ra_nom	287.97807765225	Nominal RA [deg]
dec_nom	17.981192638369	Nominal Dec [deg]
roll_nom	81.504480365603	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3567.3476605415	Sum of GTIs [s]
liveltime	3520.7376371134	Livetime [s]
ontime2	3564.0424601436	Sum of GTIs [s]
ontime3	3567.2245405316	Sum of GTIs [s]
ontime5	3567.3066205382	Sum of GTIs [s]
ontime6	3567.2655805349	Sum of GTIs [s]
ontime7	3567.3476605415	Sum of GTIs [s]
l2events	26803	Number of level 2 events



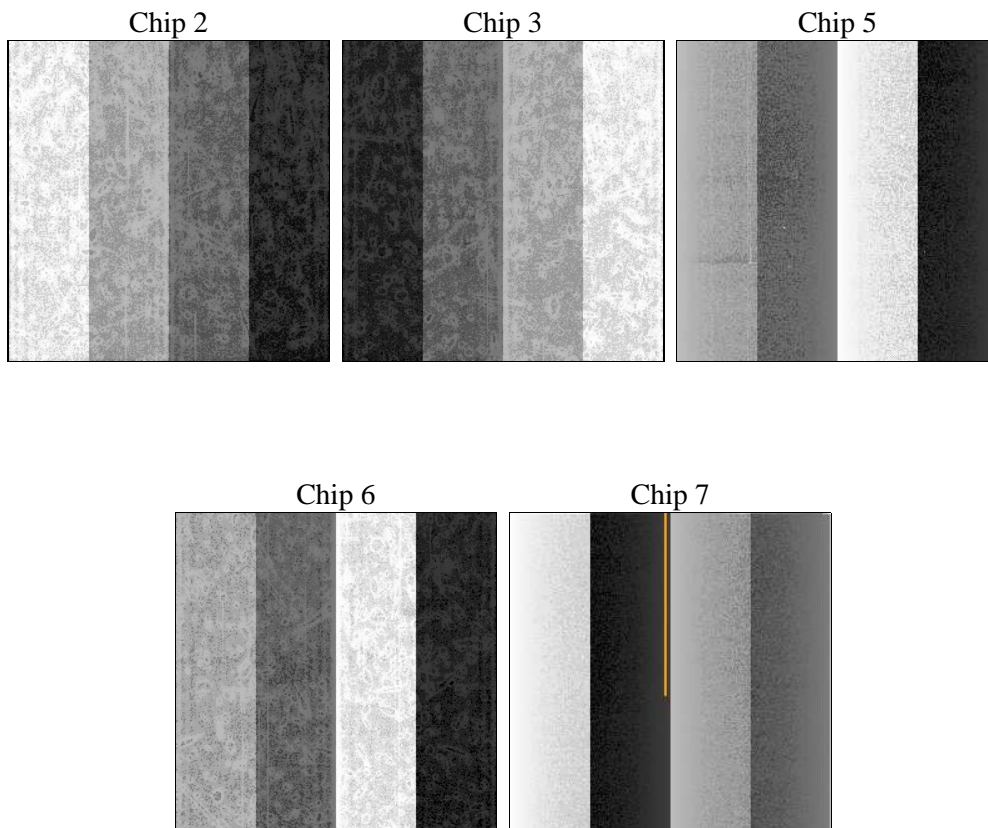
2 OBI

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	3567.3476605415	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	3564.0424601436	Sum of GTIs [s]
date	2014-12-10T21:52:26	Date and time of file creation	ontime3	3567.2245405316	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3567.3066205382	Sum of GTIs [s]
			ontime6	3567.2655805349	Sum of GTIs [s]
			ontime7	3567.3476605415	Sum of GTIs [s]
			l1events	100610	Number of level 1 events

2.1.4 Events

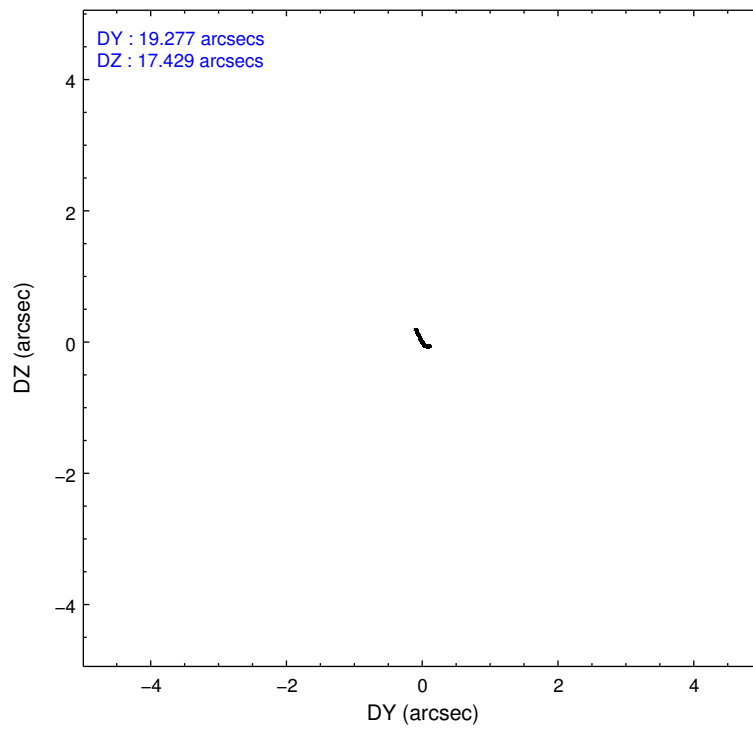
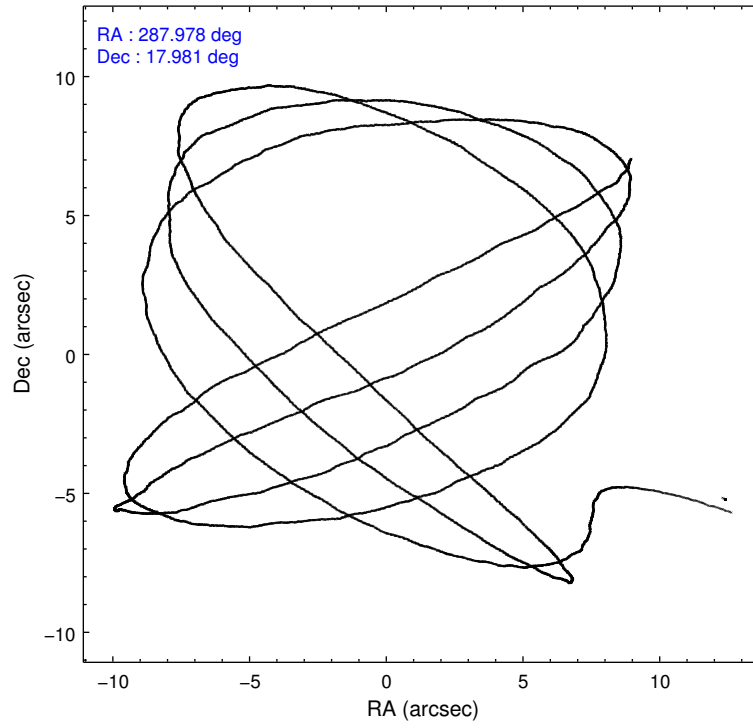
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	16795	15349	30183	15171	23112
rejected events	14926	13515	14821	13068	13519
rejected %	88%	88%	49%	86%	58%

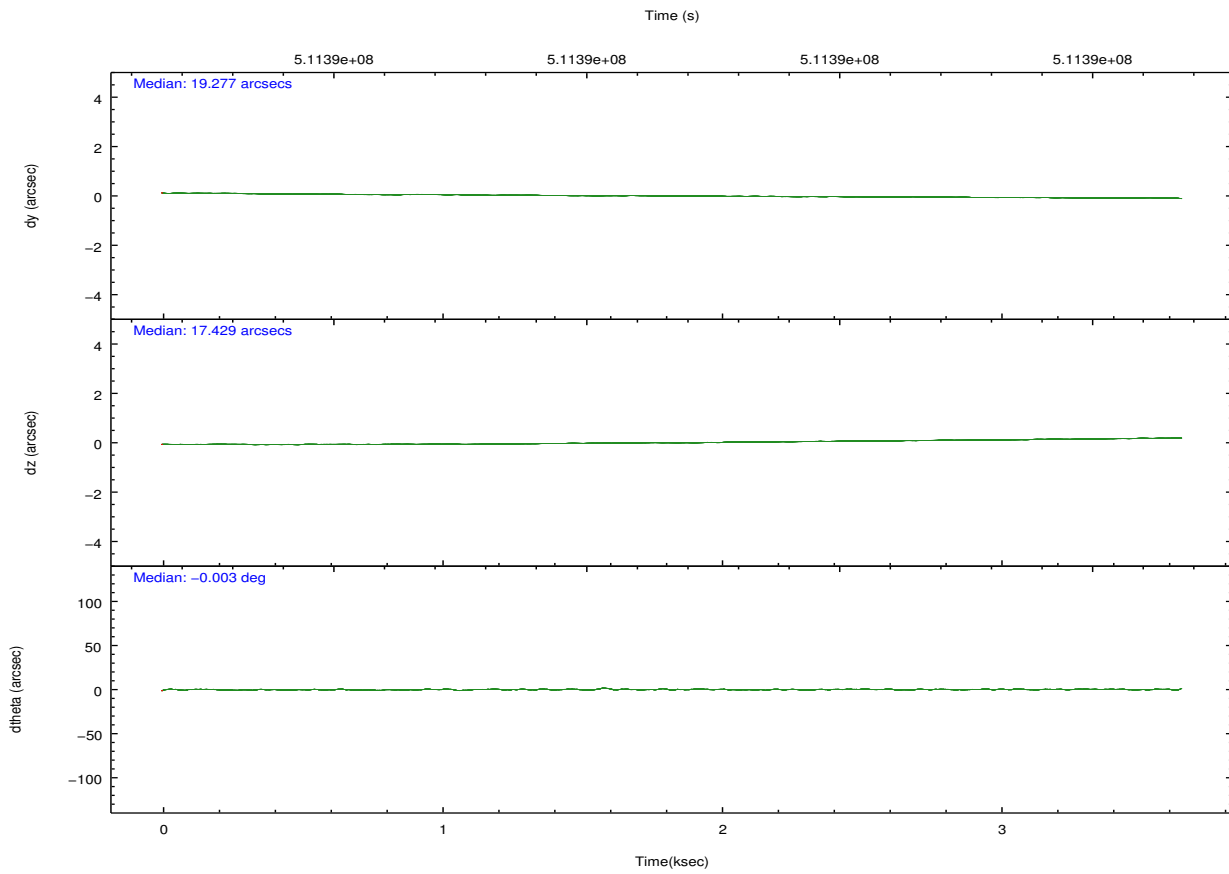
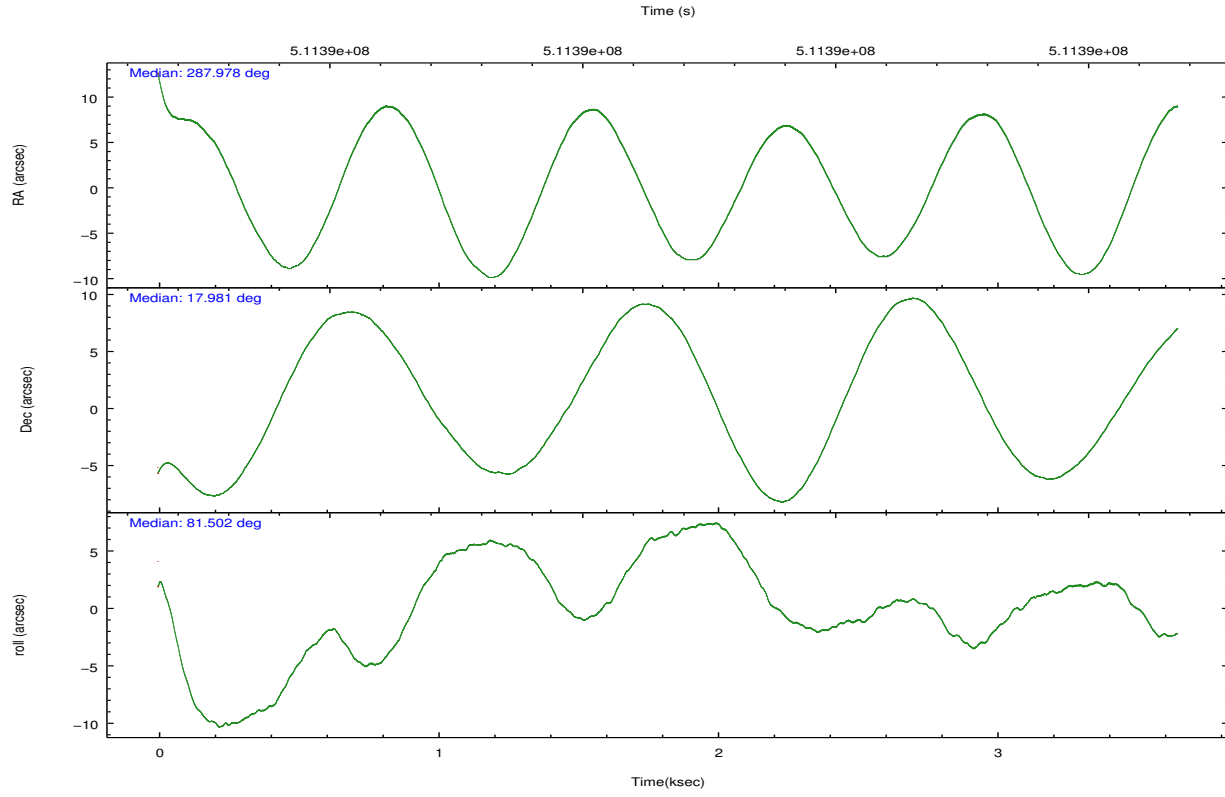
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	681	699	3000	684	748
	4%	4%	9%	4%	3%
grade 1 events	9	10	229	7	16
	0%	0%	0%	0%	0%
grade 2 events	422	380	4192	480	2030
	2%	2%	13%	3%	8%
grade 3 events	185	193	387	219	755
	1%	1%	1%	1%	3%
grade 4 events	217	181	376	195	688
	1%	1%	1%	1%	2%
grade 5 events	725	958	1822	855	2208
	4%	6%	6%	5%	9%
grade 6 events	364	382	7420	525	5390
	2%	2%	24%	3%	23%
grade 7 events	14192	12546	12757	12206	11277
	84%	81%	42%	80%	48%

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	287.988913	287.9780776522513	CCD I2 on	O2	Y
[deg] Pointing Dec	17.956048	17.98119263836883	CCD I3 on	O3	Y
[deg] Pointing Roll	81.344494	81.50448036560337	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)	511388656.184000	511387496.52476	CCD S5 on	N	N
Observation start date	2014-03-16T20:23:09	2014-03-16T20:04:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	511392156.184000	511392852.15005	On-chip summing requested	N	N
Observation end date	2014-03-16T21:21:29	2014-03-16T21:34:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





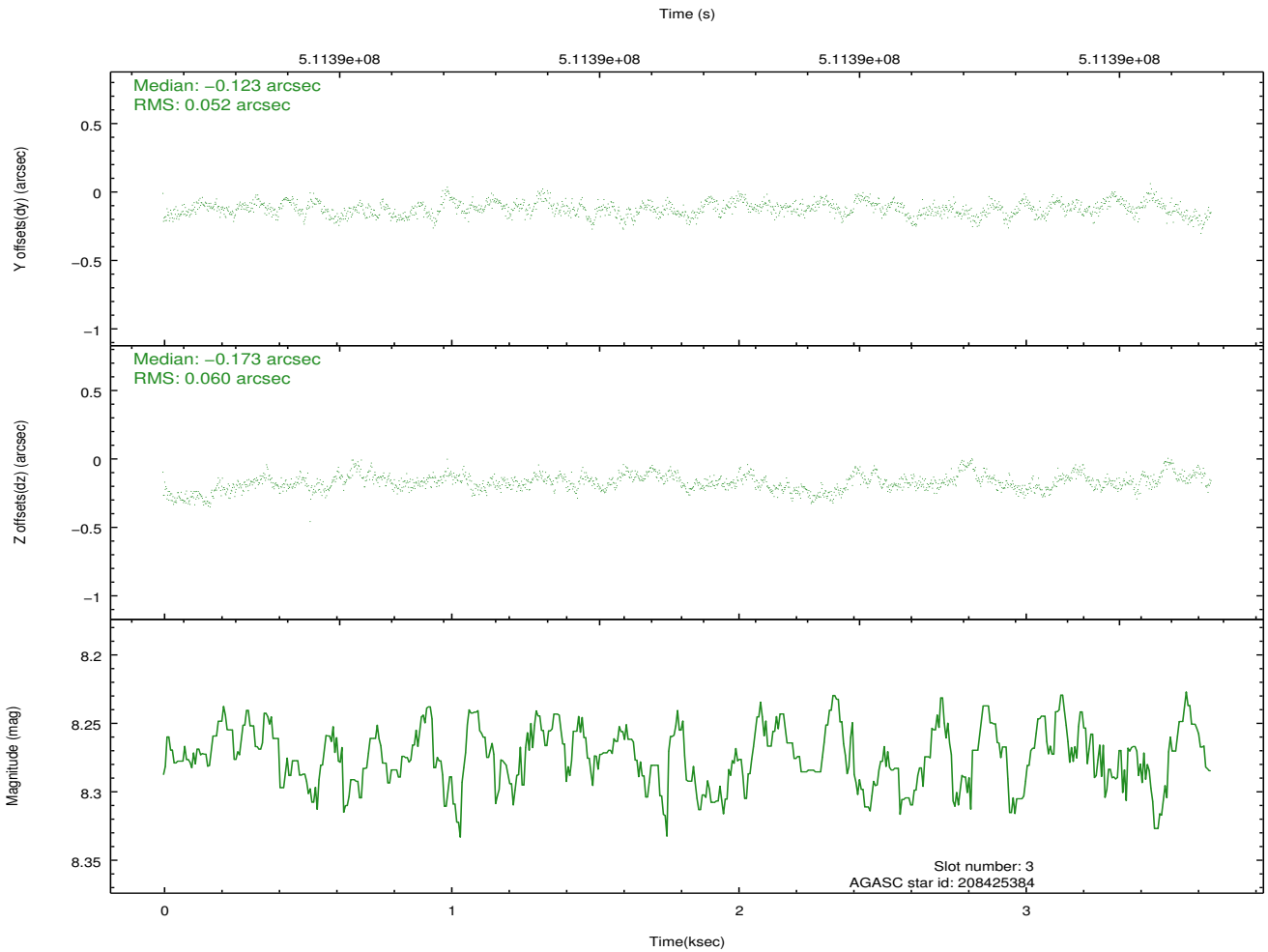
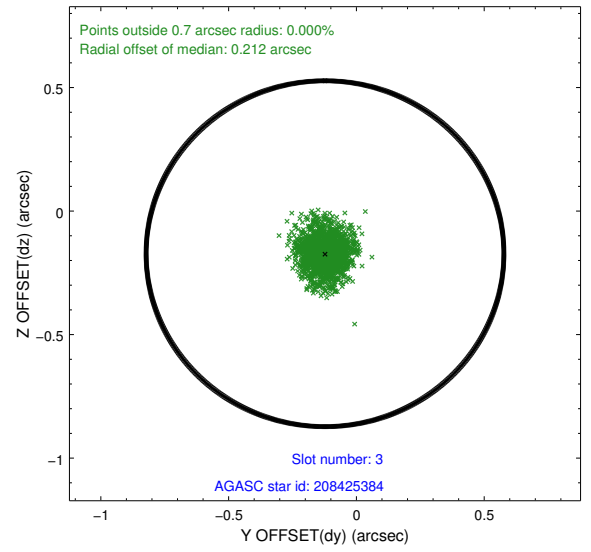
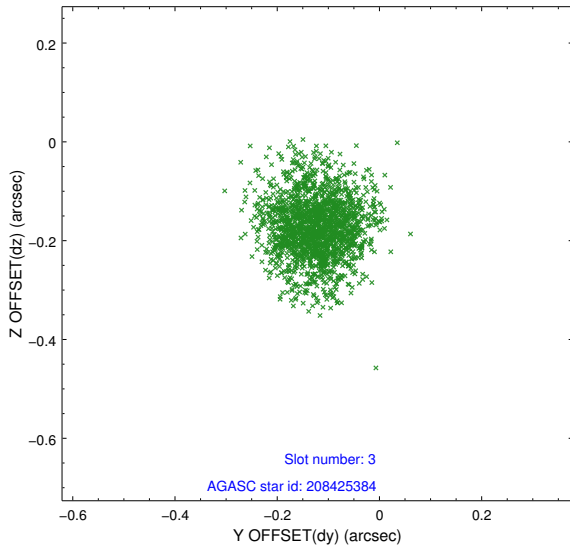
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	891	-0.115	-0.058	0.010	0.016	0.000000	0.000000	-772.52	-1738.88
1	FID		ACIS-S-4	7.17	891	0.288	0.071	0.005	0.011	0.000000	0.000000	2140.41	167.86
2	FID		ACIS-S-5	7.19	891	-0.205	-0.003	0.010	0.015	0.000000	0.000000	-1823.21	163.52
3	GUIDE	used	208425384	8.27	1781	-0.123	-0.173	0.084	0.139	287.961584	18.152014	684.10	198.96
4	GUIDE	used	208428664	7.83	1781	-0.110	-0.294	0.097	0.160	287.944250	18.087803	446.94	222.89
5	GUIDE	used	210113176	8.79	1780	-0.071	0.143	0.134	0.209	288.547308	18.448154	2042.39	-1617.36
6	GUIDE	used	210119616	7.69	1781	0.014	0.079	0.112	0.167	288.118619	18.001946	232.64	-414.45
7	GUIDE	used	210120944	8.43	1779	0.289	0.224	0.088	0.146	288.245736	17.506735	-1464.51	-1114.62

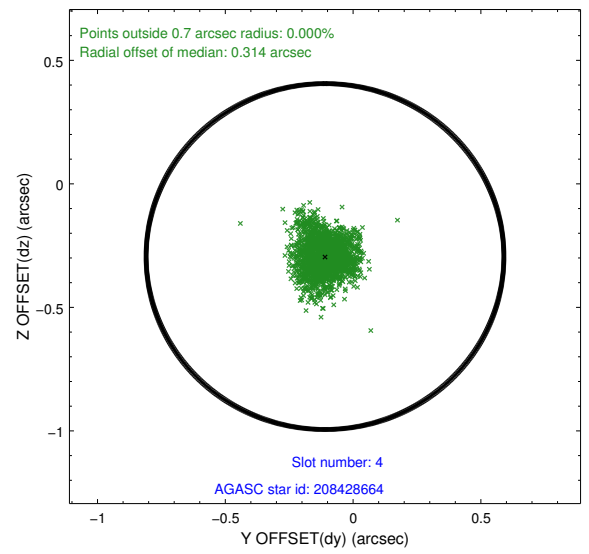
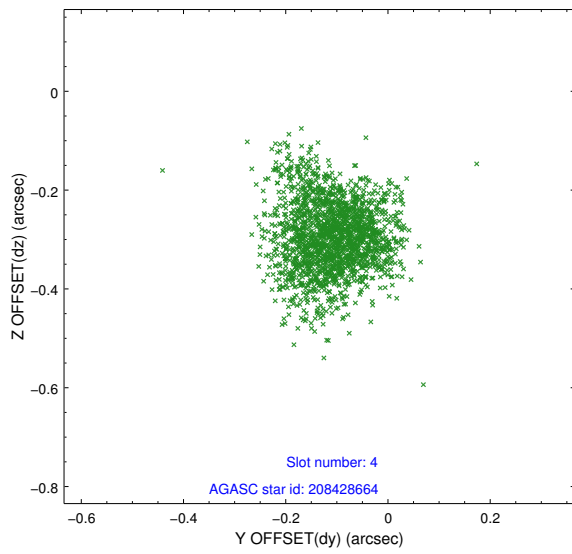
∞

2.4 Star Slots

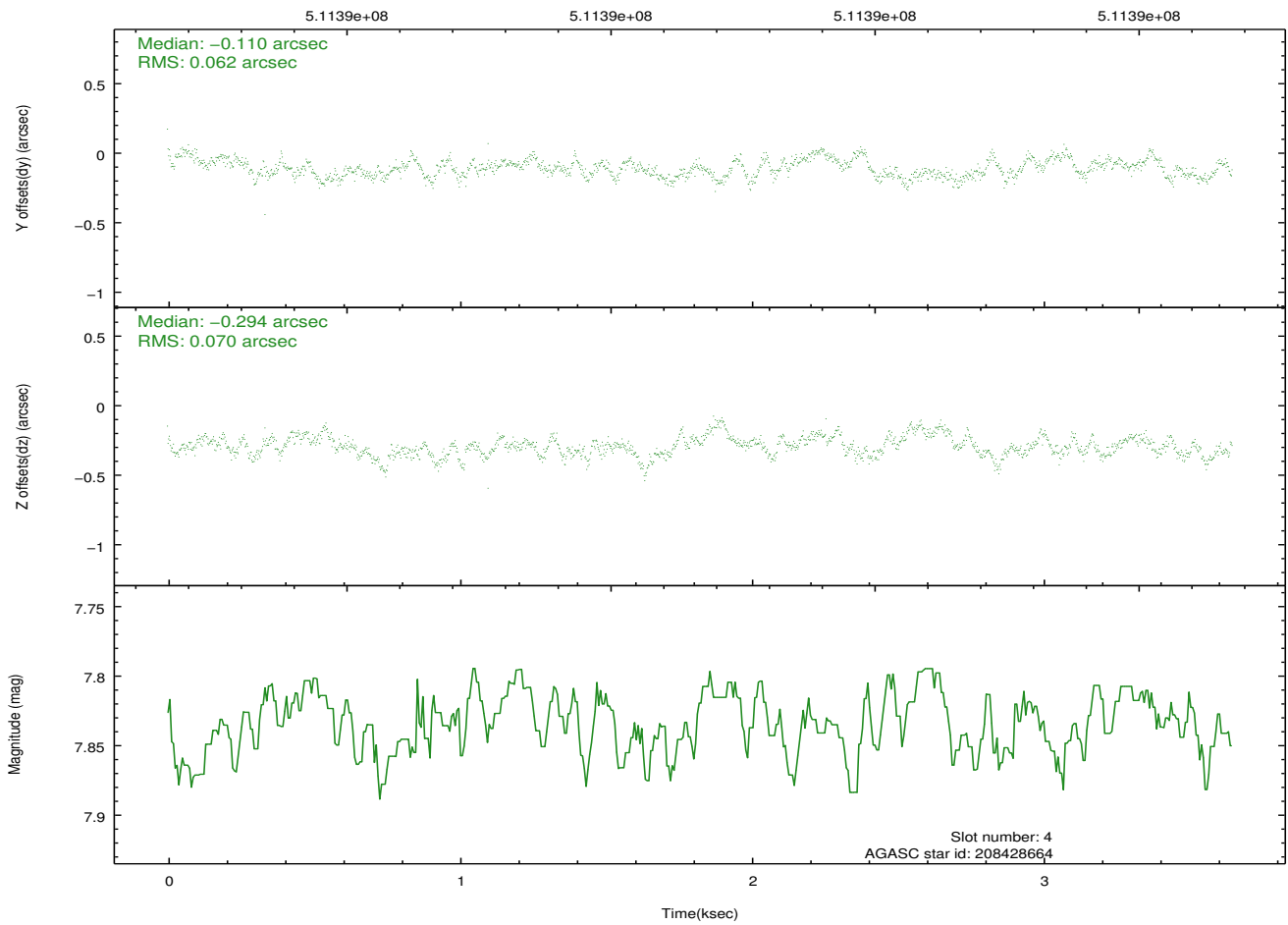
2.4.1 Slot 3



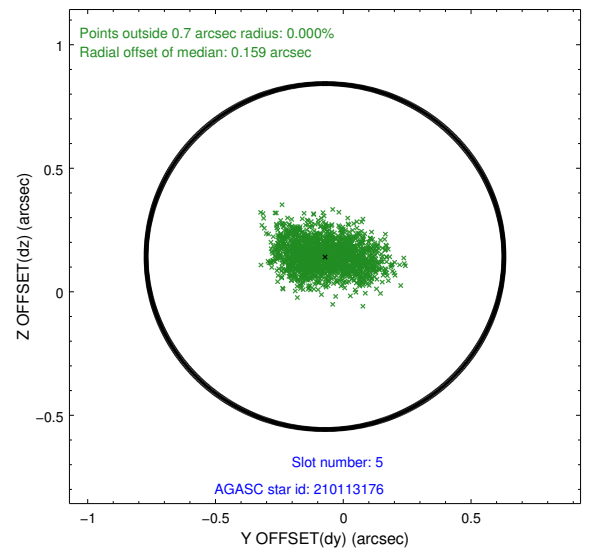
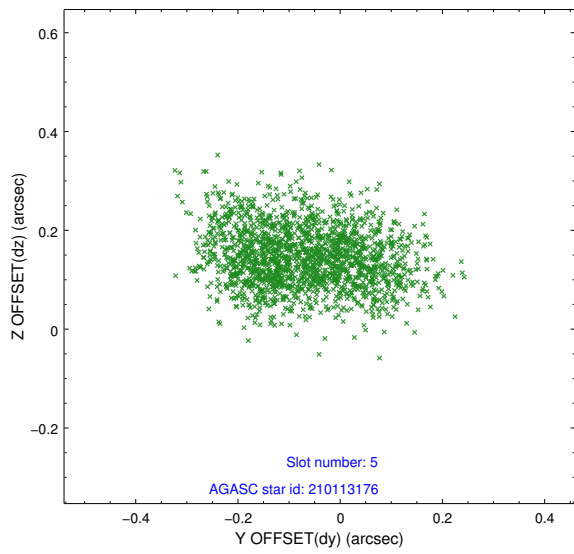
2.4.2 Slot 4



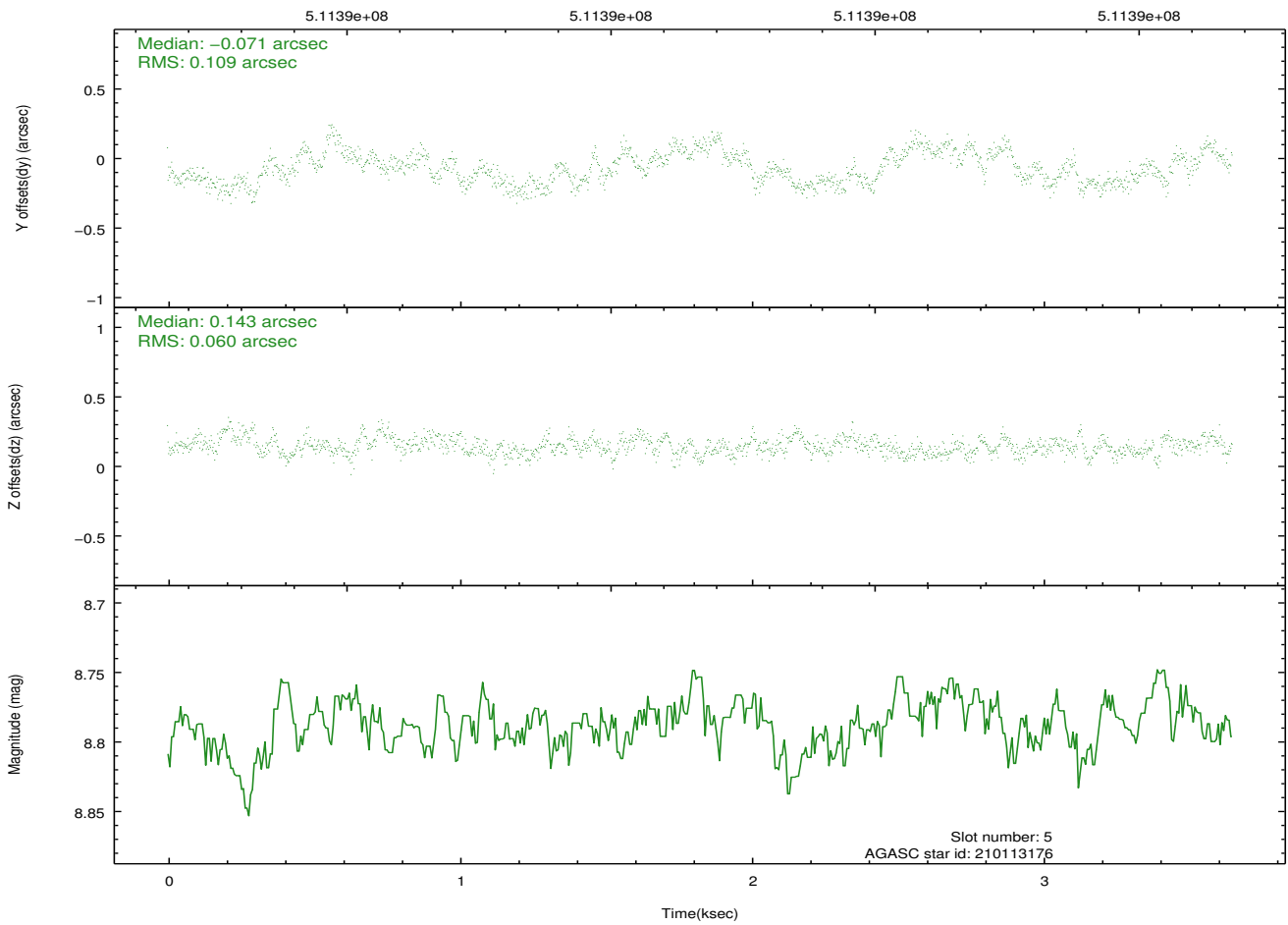
Time (s)



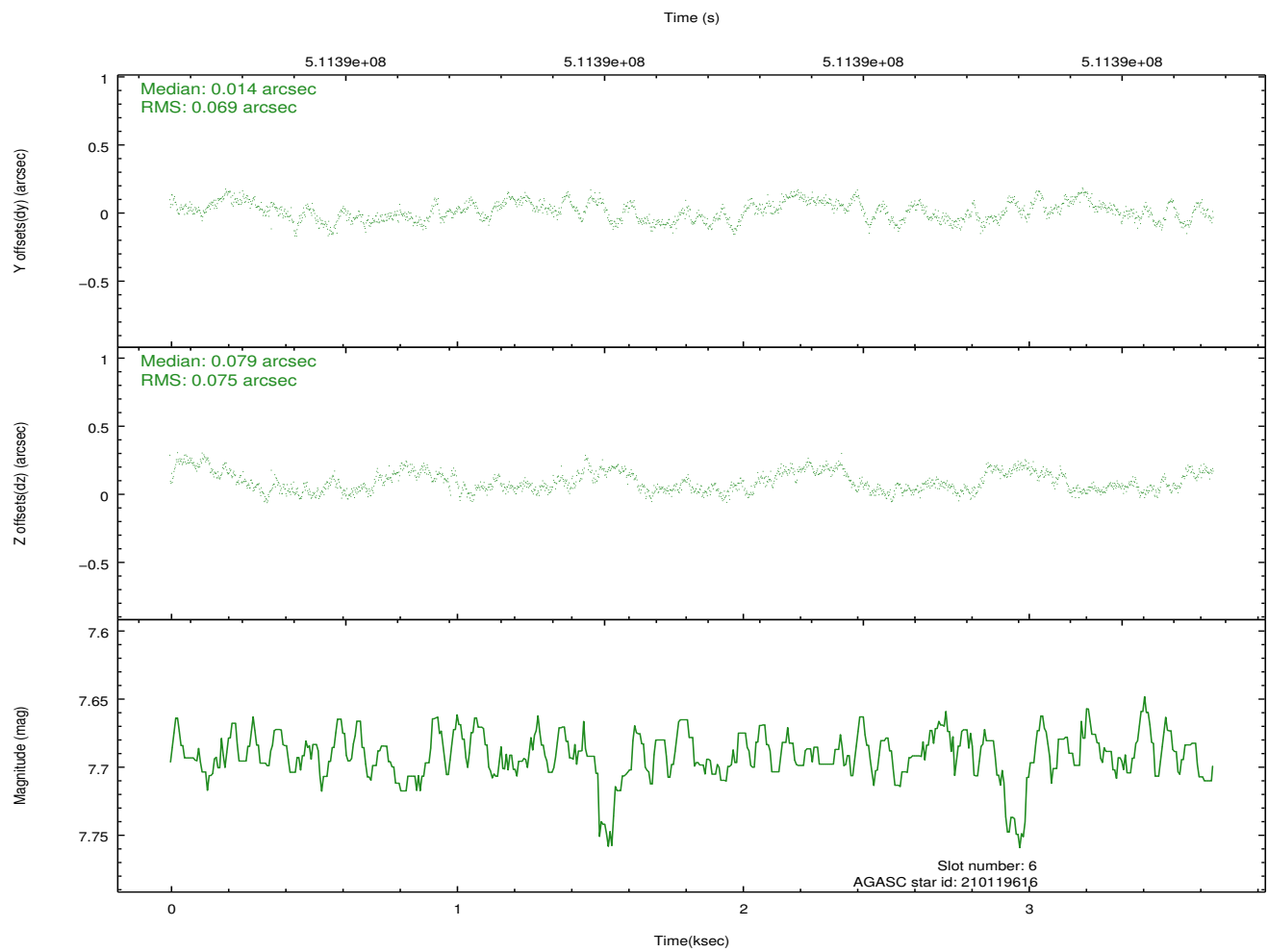
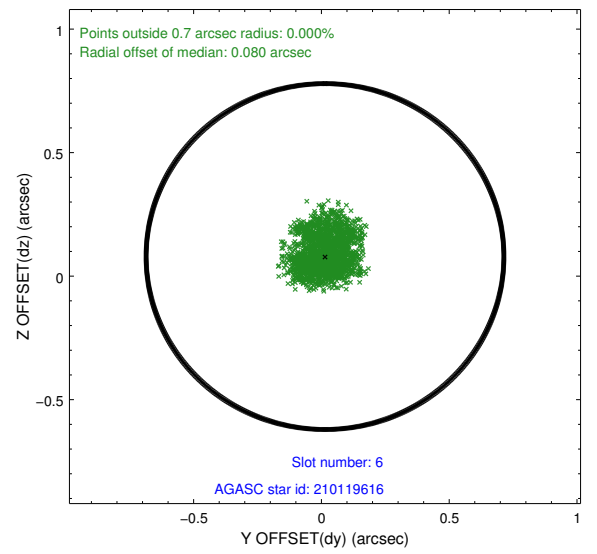
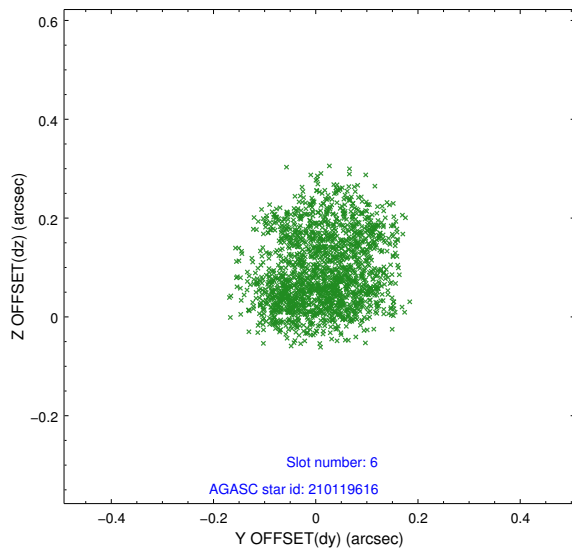
2.4.3 Slot 5



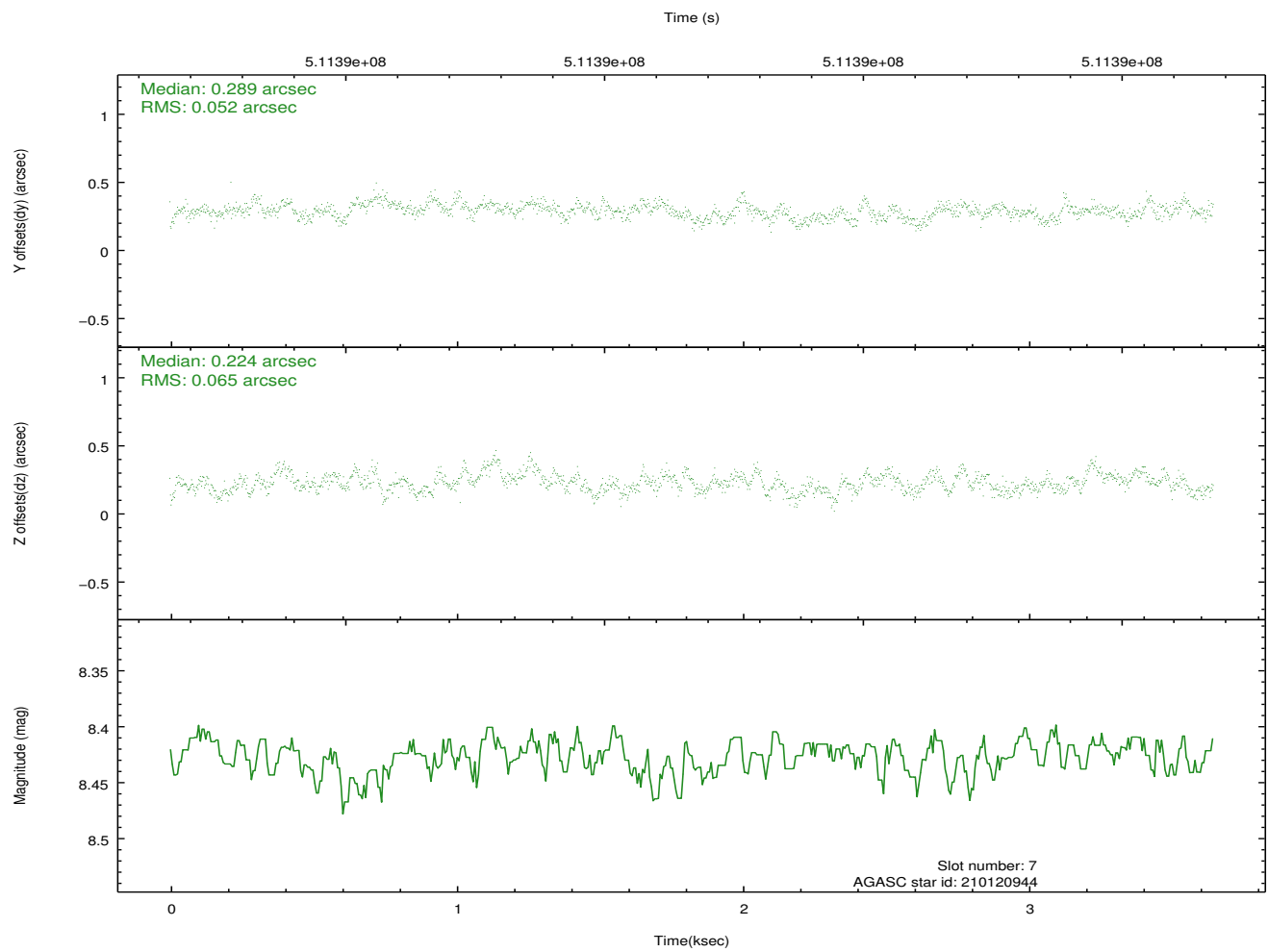
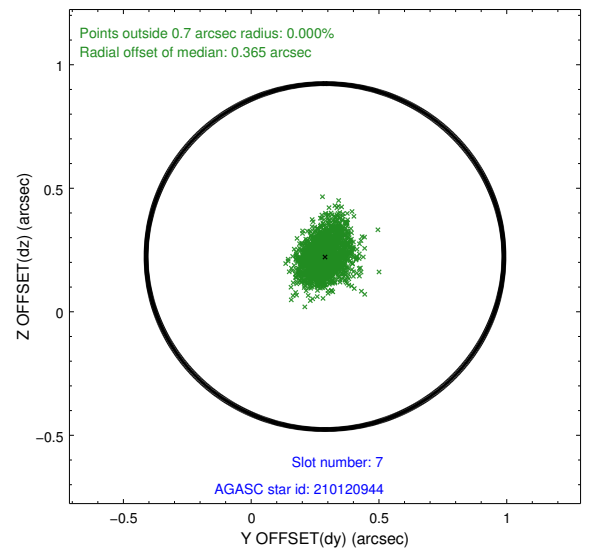
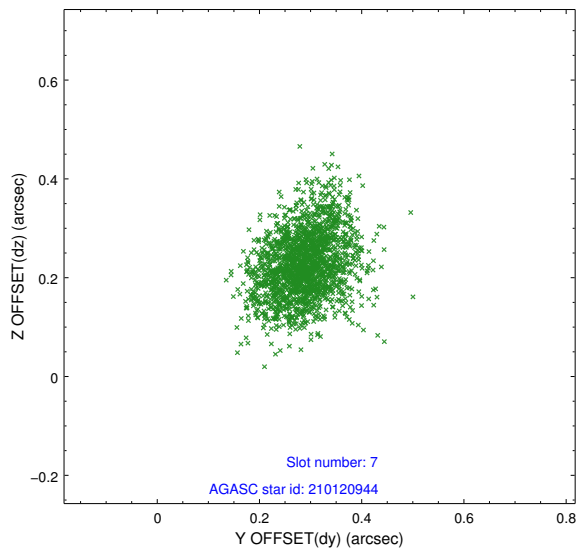
Time (s)



2.4.4 Slot 6

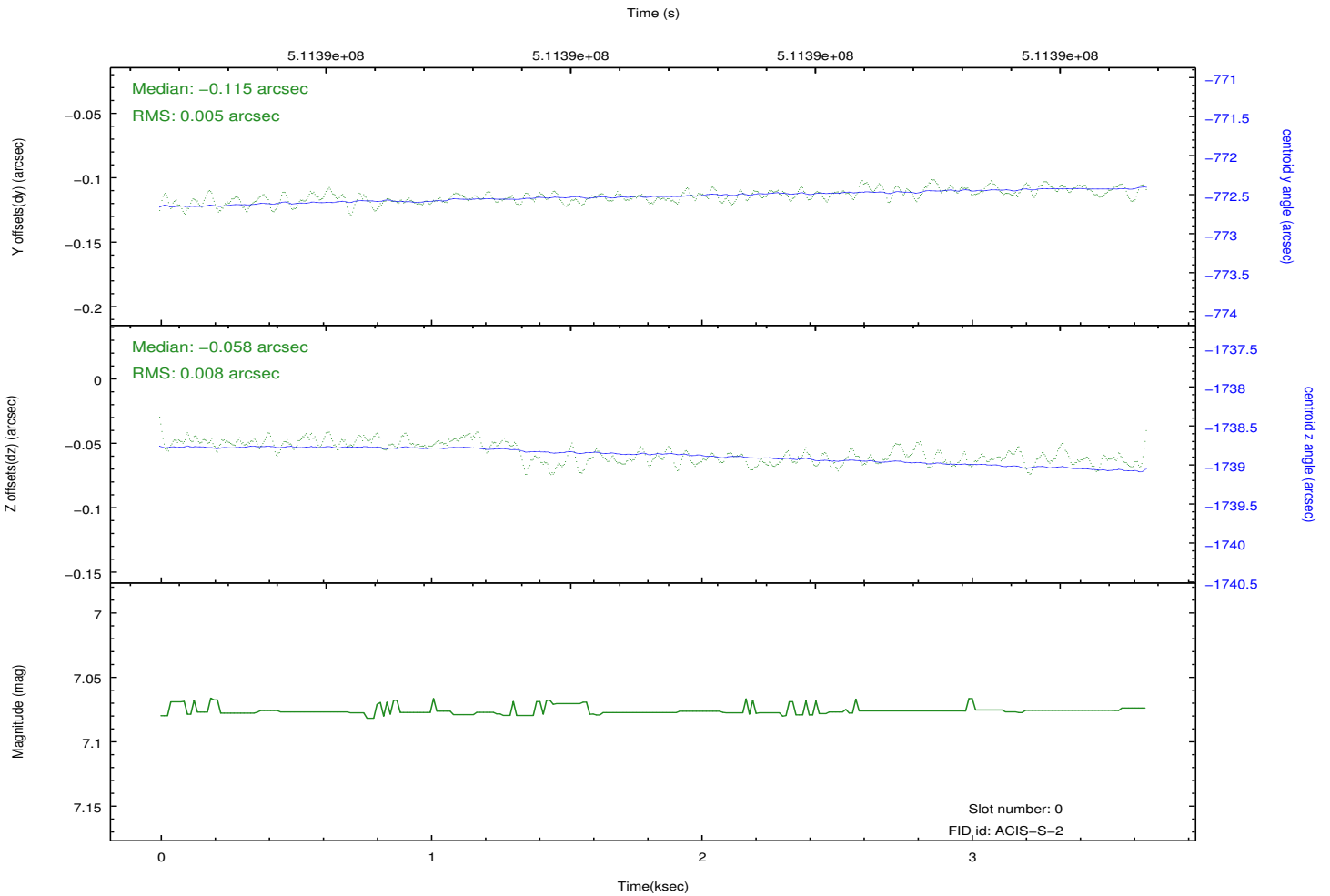
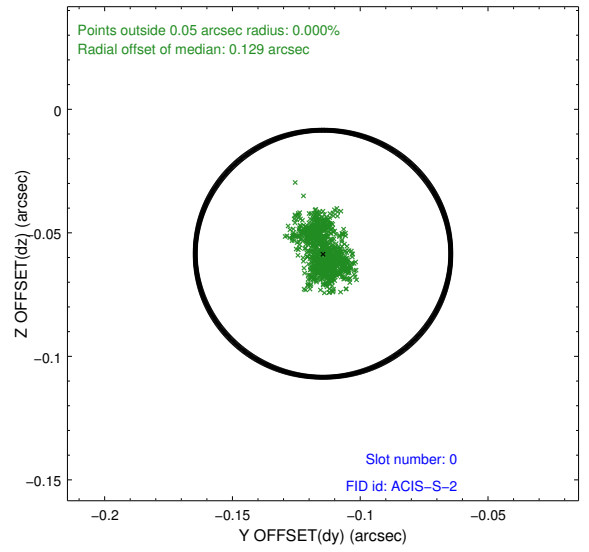
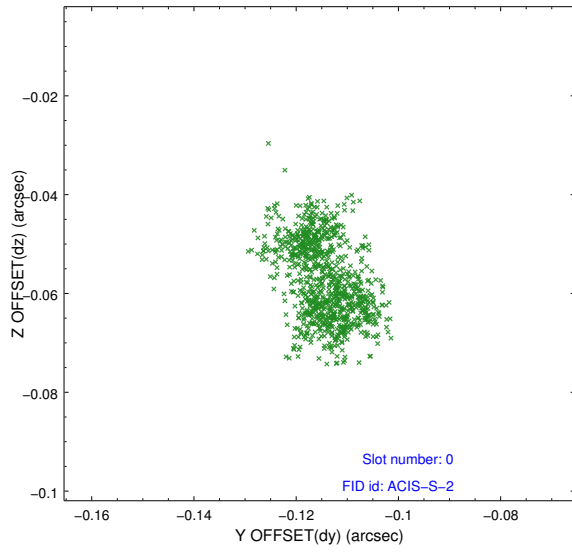


2.4.5 Slot 7

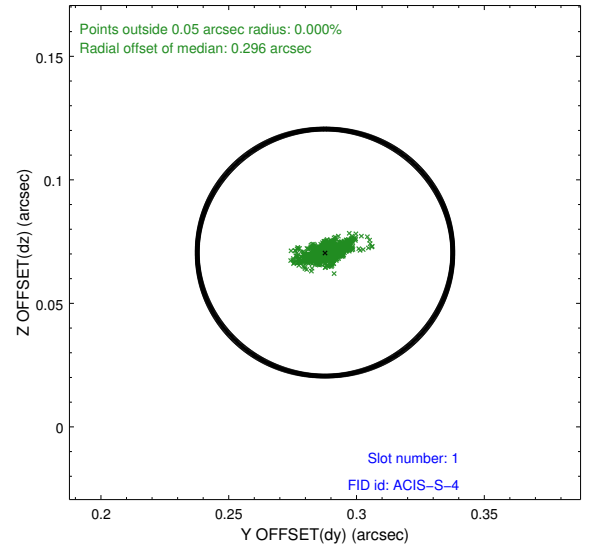
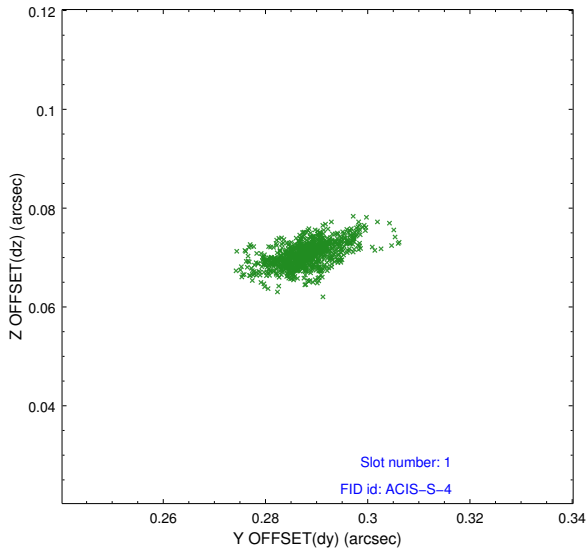


2.5 FID Slots

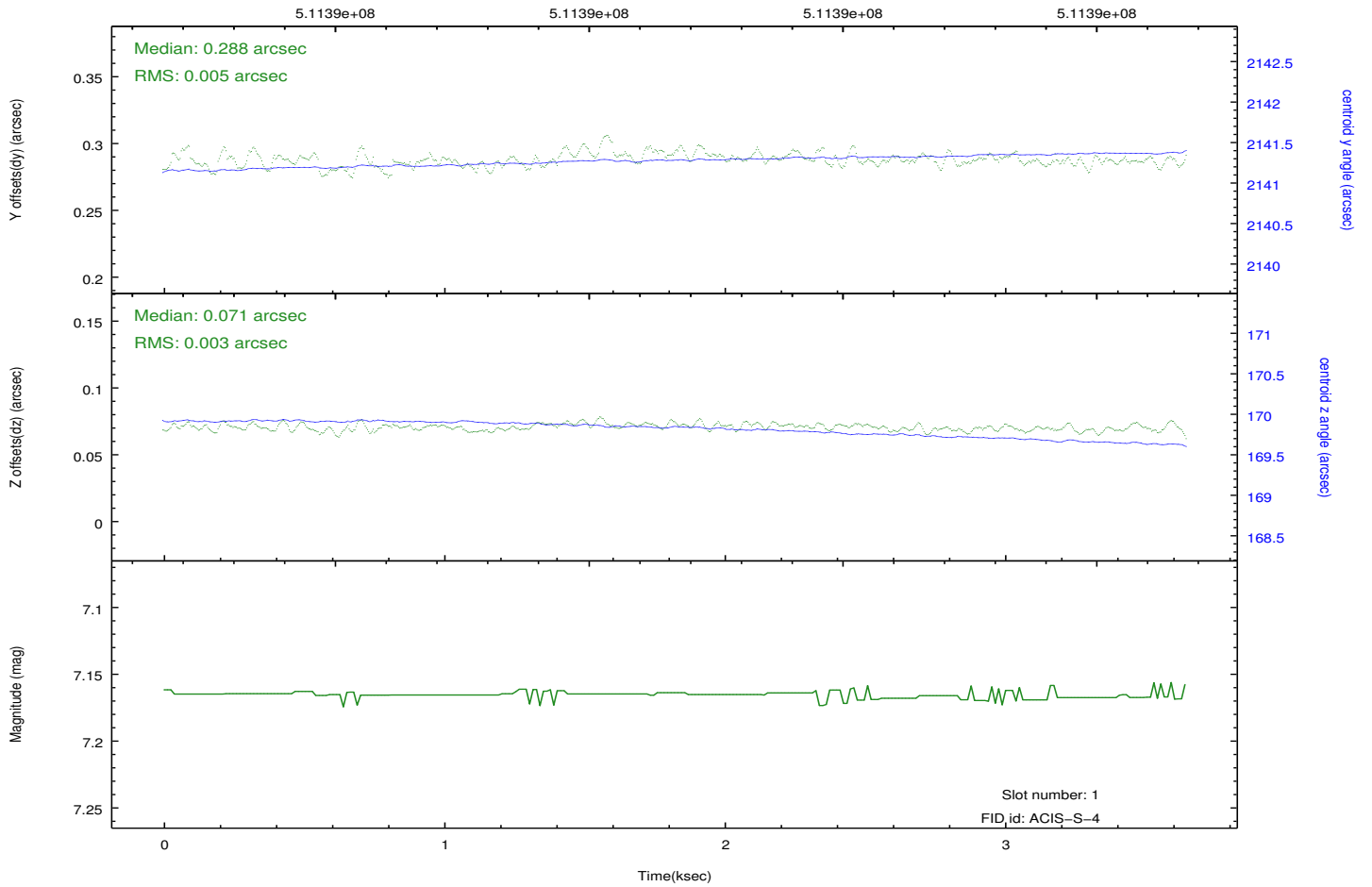
2.5.1 Slot 0



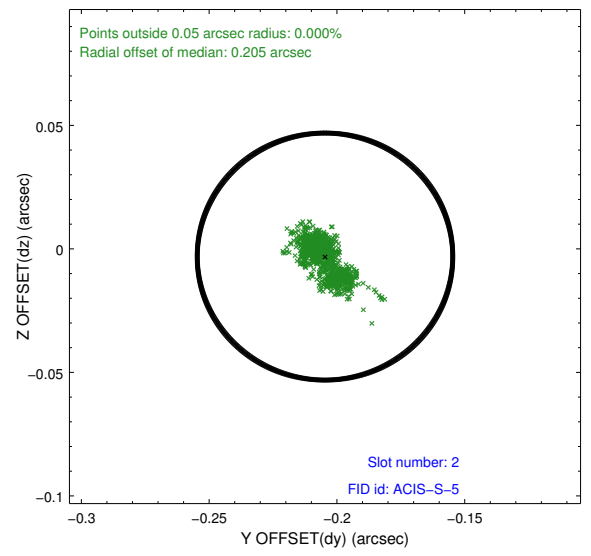
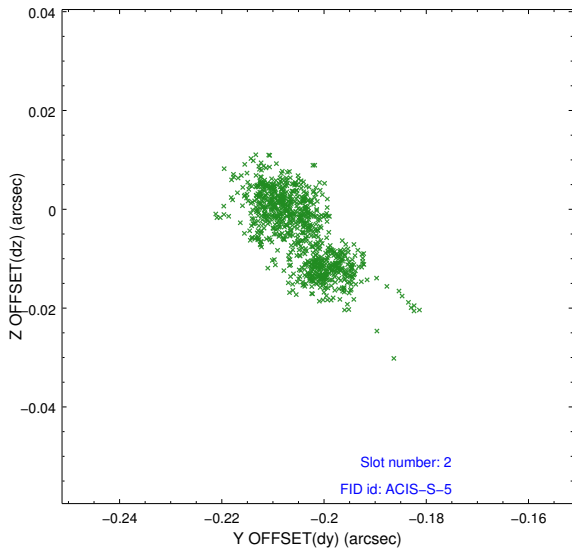
2.5.2 Slot 1



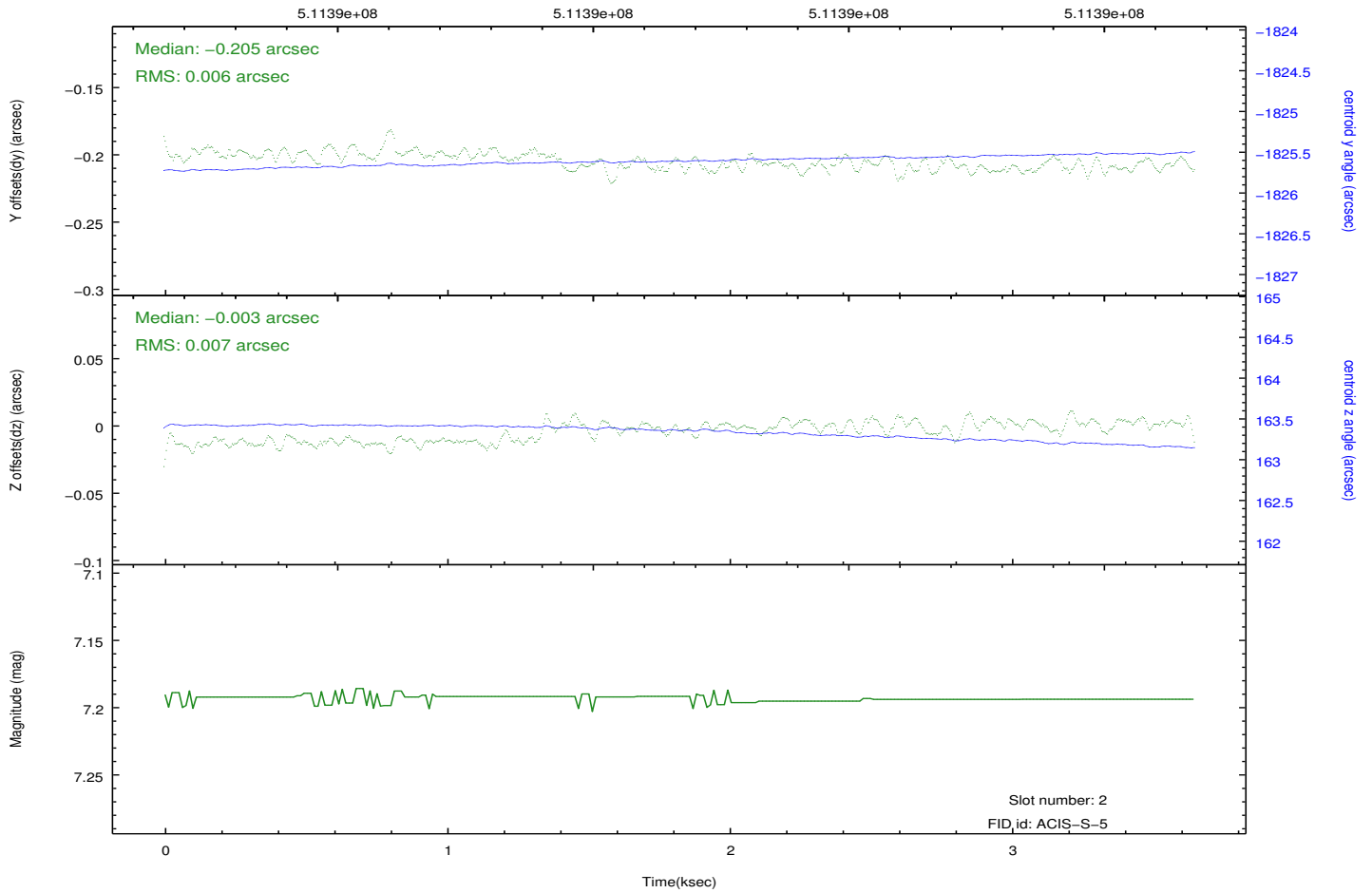
Time (s)



2.5.3 Slot 2



Time (s)



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	3.5673476605415

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.