

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 17754 - L2 Version 1
Chandra X-Ray Center

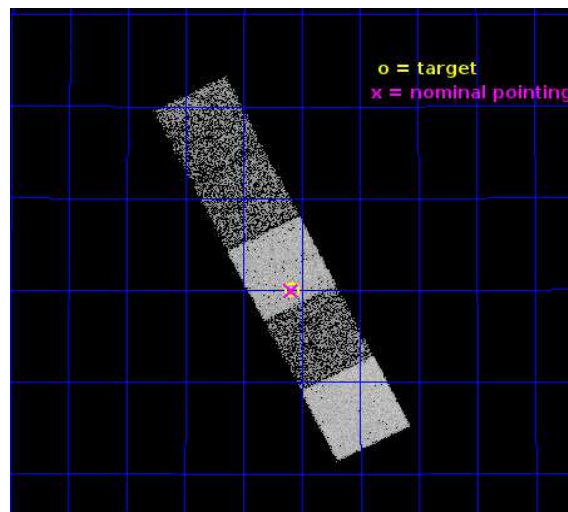
L2 Processing Date : Dec 22 2015

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1 Front

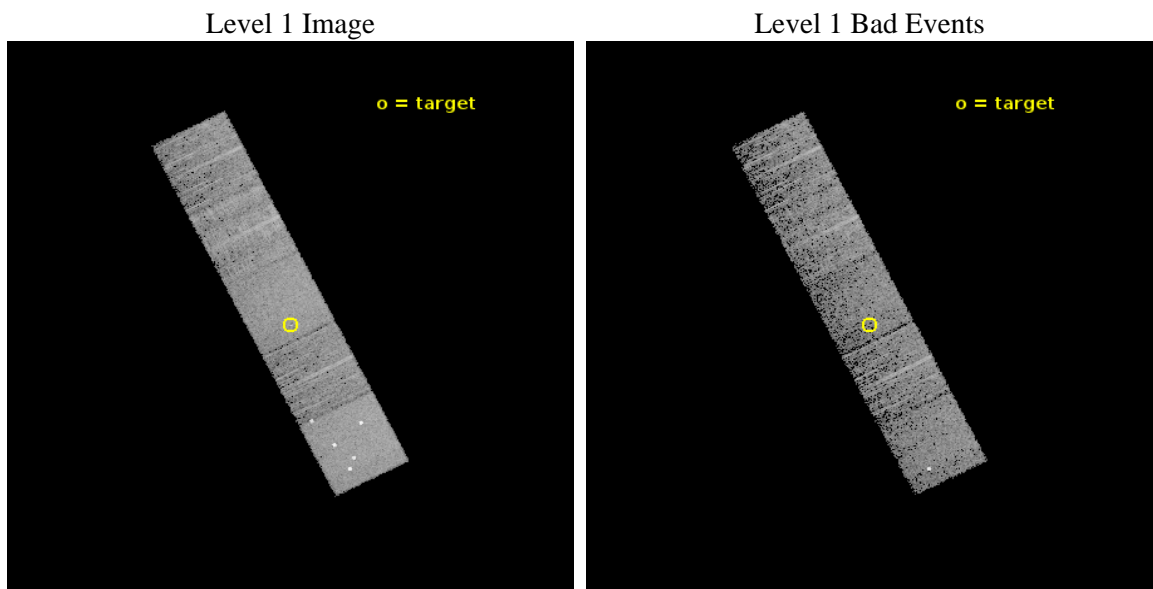
seq_num	201063	Sequence number
obs_id	17754	Observation id
title	Understanding the Rotation/Activity Relation: A New Low-Mass, Extreme-Spin Sample	Proposal title
observer	Dr. Peter Williams	Principal investigator
object	2MASS J04123491+3529592	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.144583	Observer's specified target RA [deg]
dec_targ	35.500194	Observer's specified target Dec [deg]
ra_nom	63.147305945395	Nominal RA [deg]
dec_nom	35.499241964074	Nominal Dec [deg]
roll_nom	243.15505053691	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5276.2000406981	Sum of GTIs [s]
livetime	5207.2626028844	Livetime [s]
ontime5	5276.2000406981	Sum of GTIs [s]
ontime6	5276.2000406981	Sum of GTIs [s]
ontime7	5276.2000406981	Sum of GTIs [s]
ontime8	5276.2000406981	Sum of GTIs [s]
ontime9	5276.2000406981	Sum of GTIs [s]
l2events	48048	Number of level 2 events



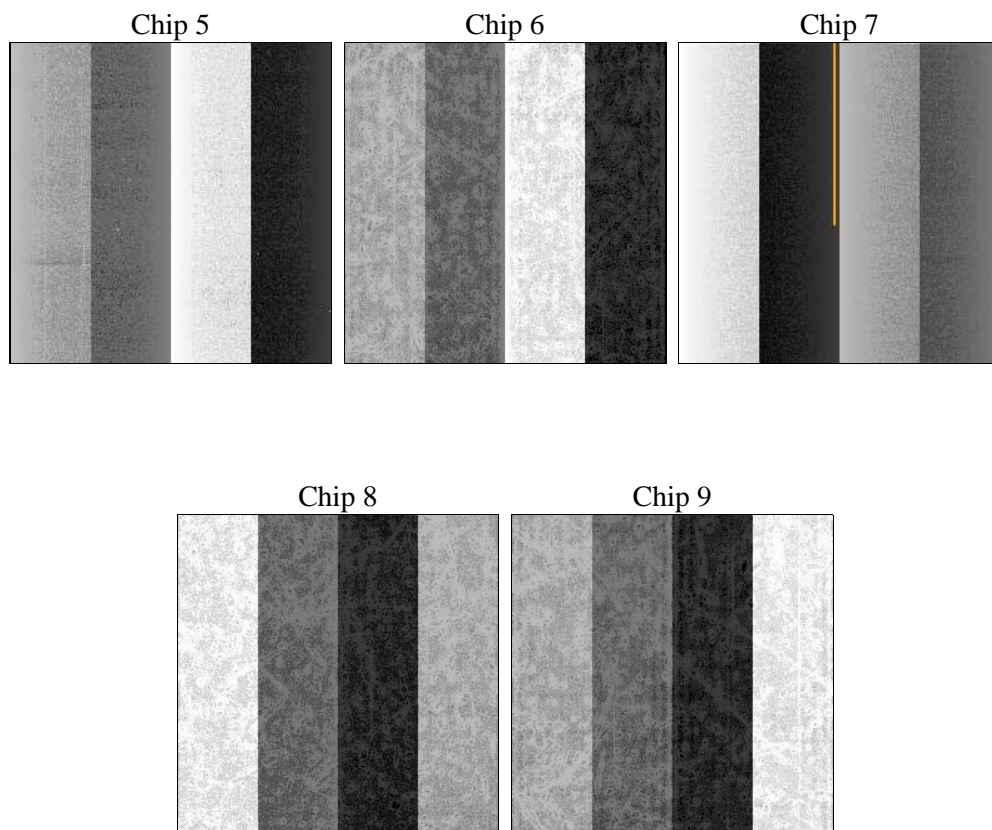
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5230.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	5276.2000406981	Sum of GTIs [s]
caldsver	4.7.0	 	ontime5	5276.2000406981	Sum of GTIs [s]
date	2015-12-22T20:11:37	Date and time of file creation	ontime6	5276.2000406981	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5276.2000406981	Sum of GTIs [s]
			ontime8	5276.2000406981	Sum of GTIs [s]
			ontime9	5276.2000406981	Sum of GTIs [s]
			l1events	195933	Number of level 1 events

2.1.4 Events

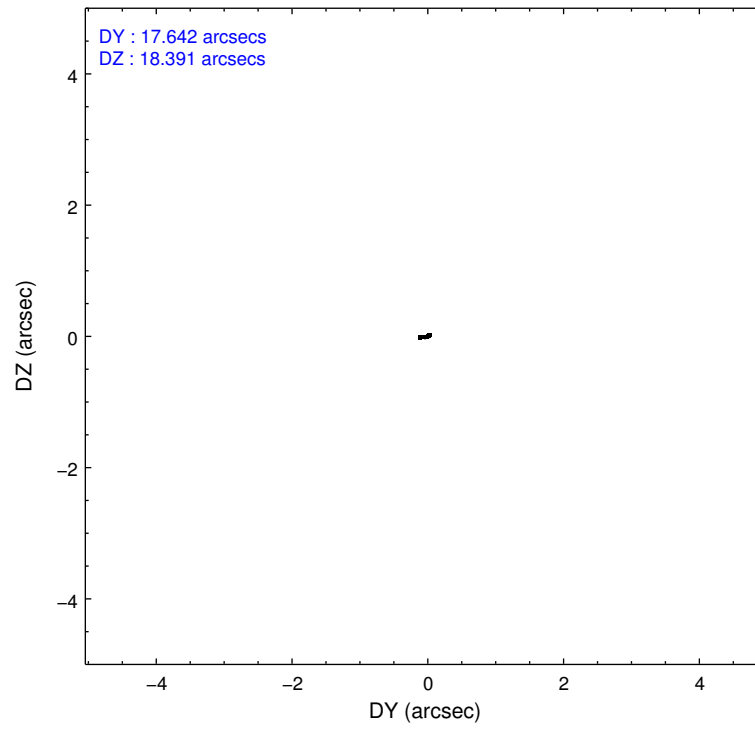
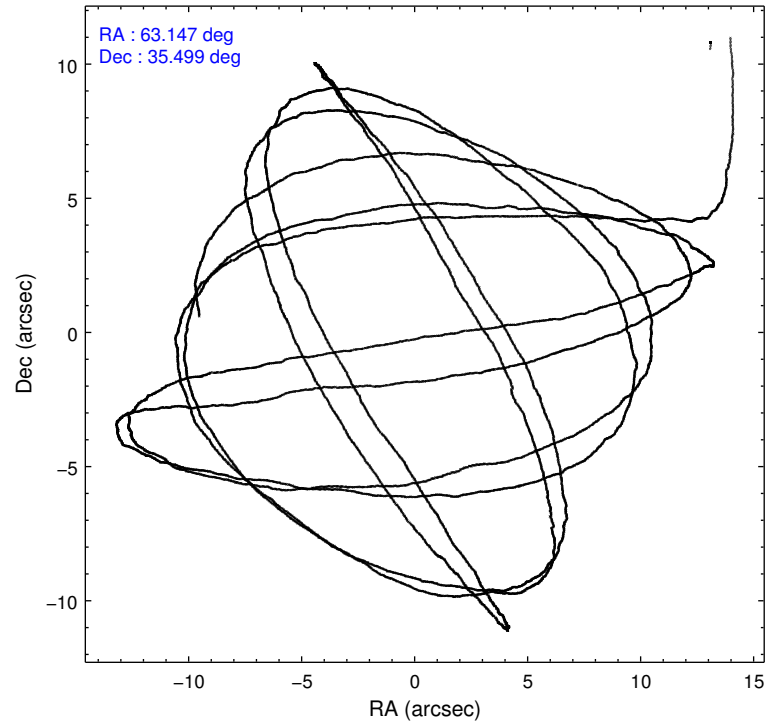
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	54439	30563	40528	40082	30321
rejected events	26684	27020	23042	30143	26744
rejected %	49%	88%	56%	75%	88%

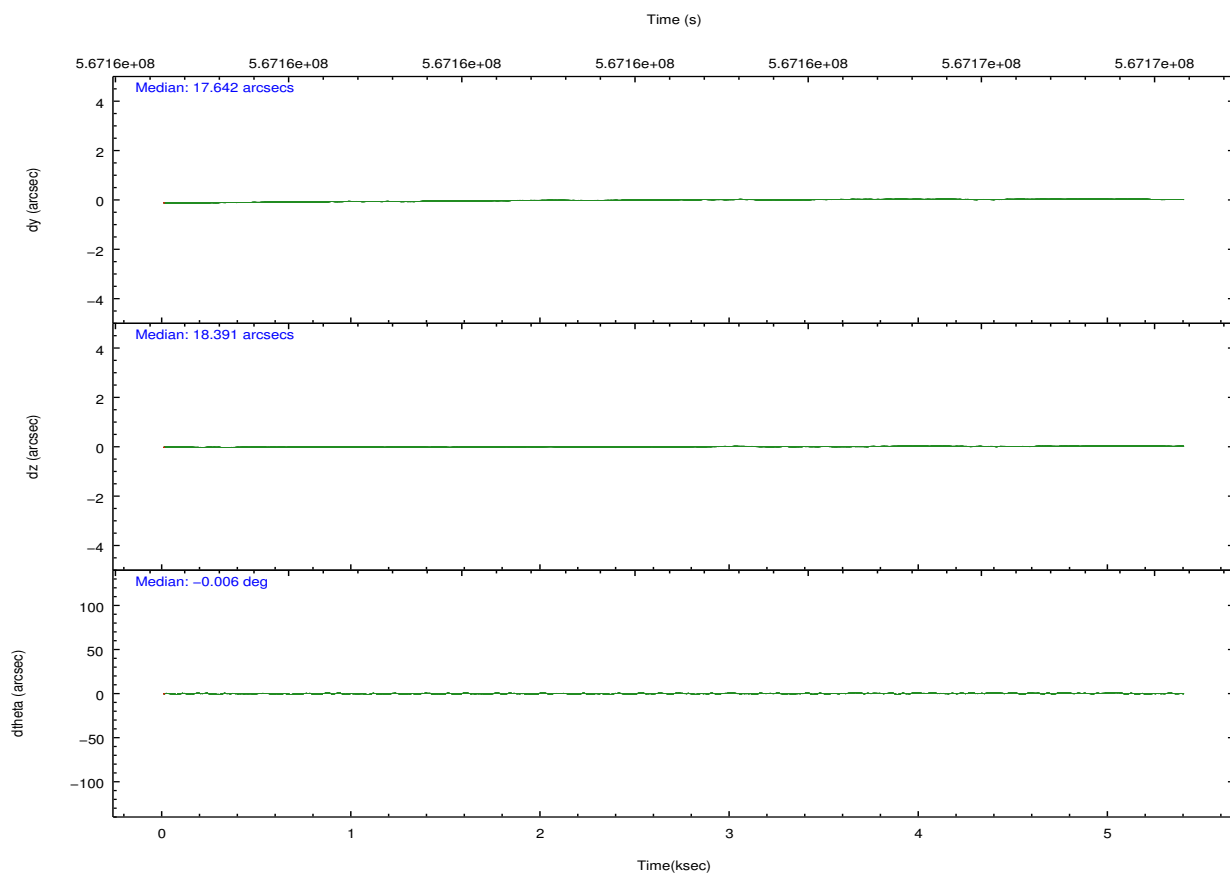
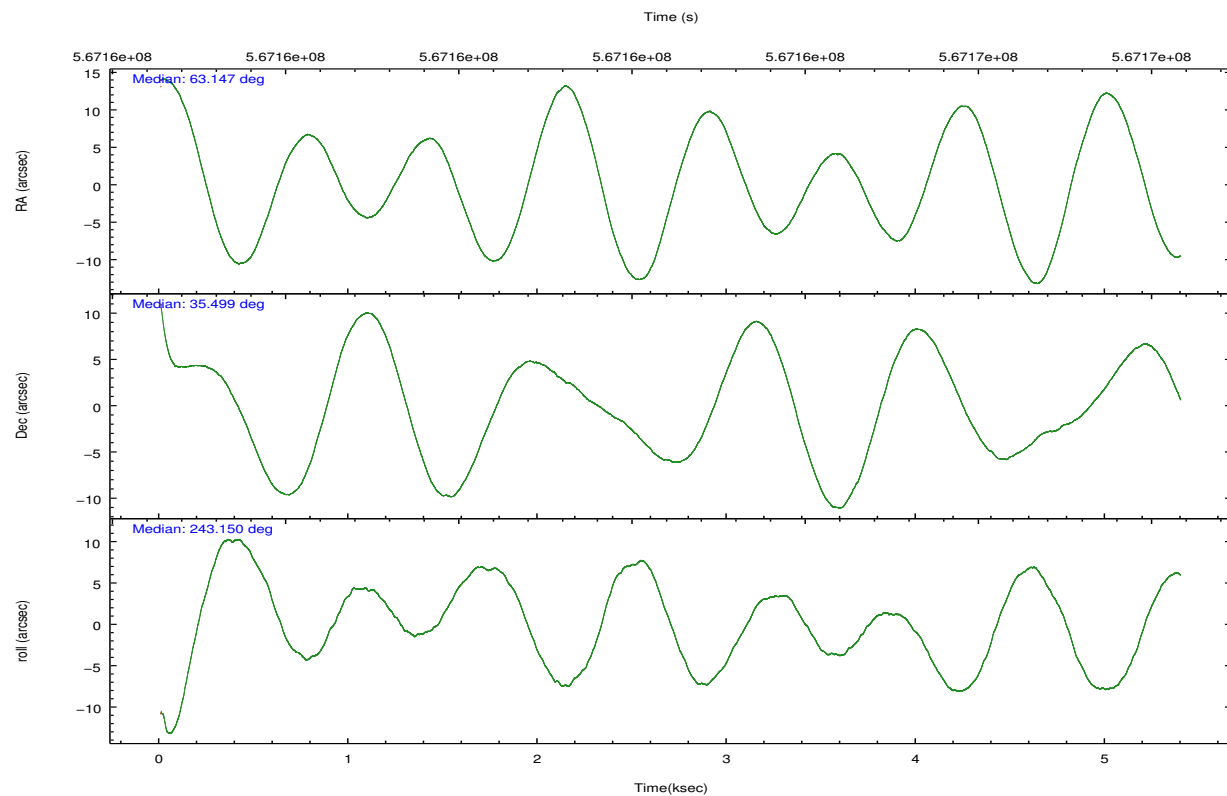
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	6210	1173	1473	2788	1292
	11%	3%	3%	6%	4%
grade 1 events	411	13	49	24	14
	0%	0%	0%	0%	0%
grade 2 events	7282	862	3734	2412	777
	13%	2%	9%	6%	2%
grade 3 events	844	338	1375	1016	381
	1%	1%	3%	2%	1%
grade 4 events	866	367	1376	988	363
	1%	1%	3%	2%	1%
grade 5 events	3739	1478	3968	2234	1702
	6%	4%	9%	5%	5%
grade 6 events	12602	808	9553	2749	769
	23%	2%	23%	6%	2%
grade 7 events	22485	25524	19000	27871	25023
	41%	83%	46%	69%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	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	63.144919	63.14730594539537	CCD I2 on	O1	N
[deg] Pointing Dec	35.526530	35.49924196407367	CCD I3 on	N	N
[deg] Pointing Roll	242.999812	243.1550505369102	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	567161709.184000	567160047.45507	CCD S5 on	O2	Y
Observation start date	2015-12-22T08:54:01	2015-12-22T08:27:27	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	567166939.184000	567167413.10549	On-chip summing requested	N	N
Observation end date	2015-12-22T10:21:11	2015-12-22T10:30:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



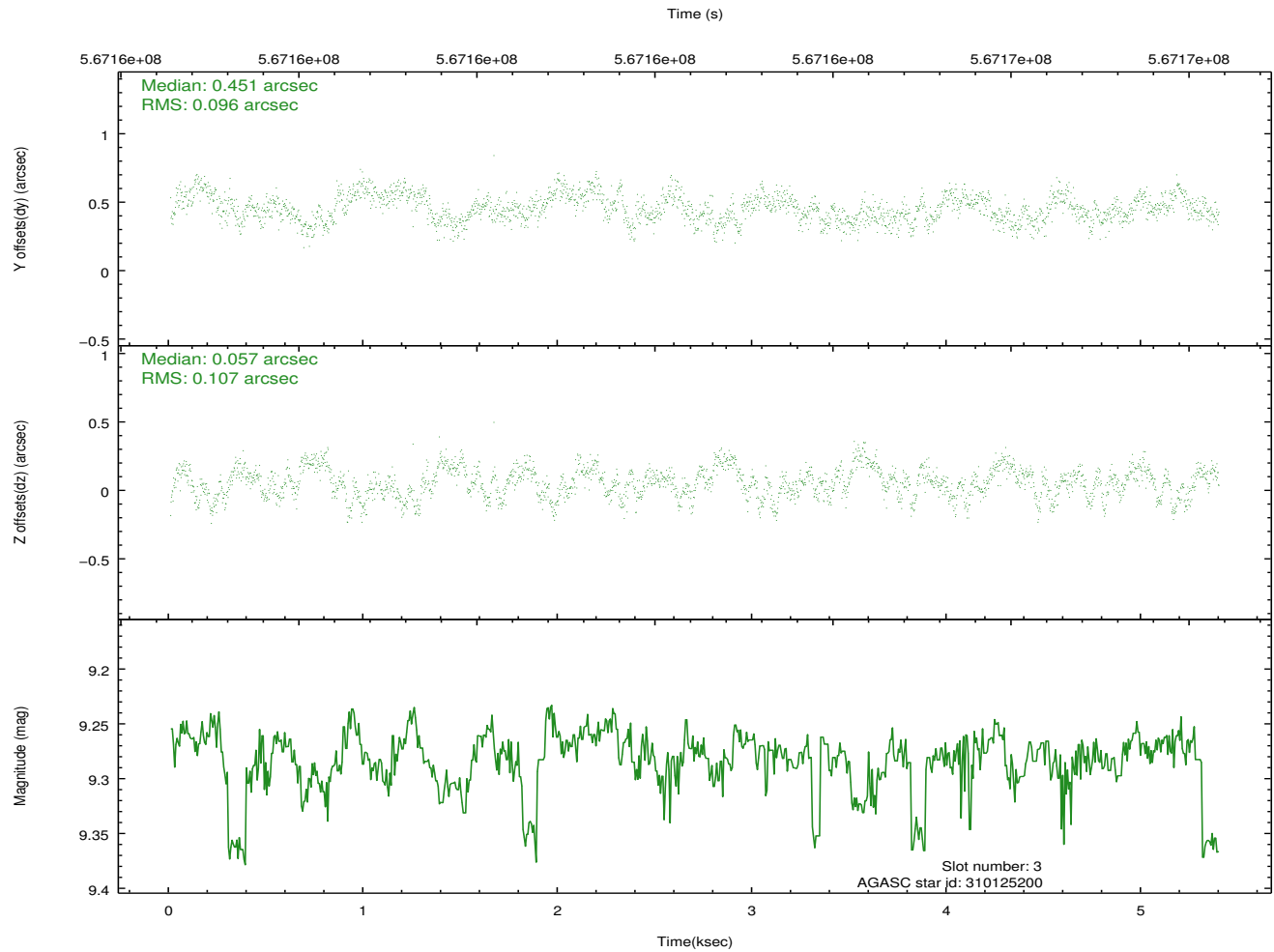
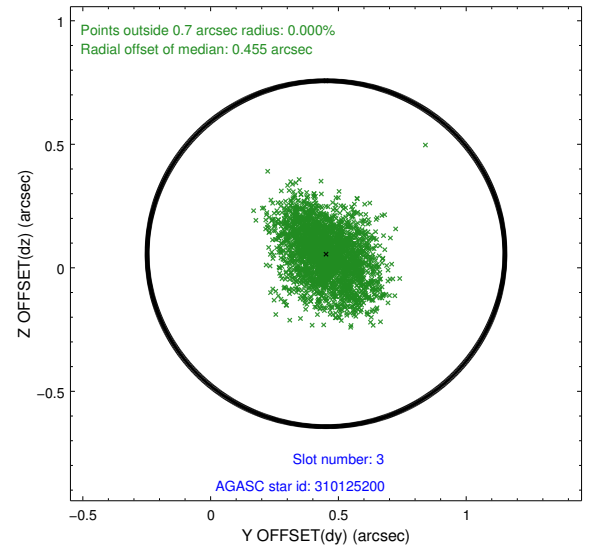
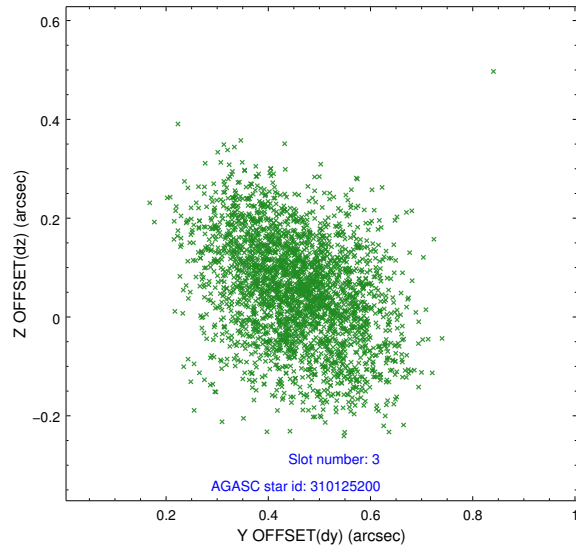


Slot Statistics

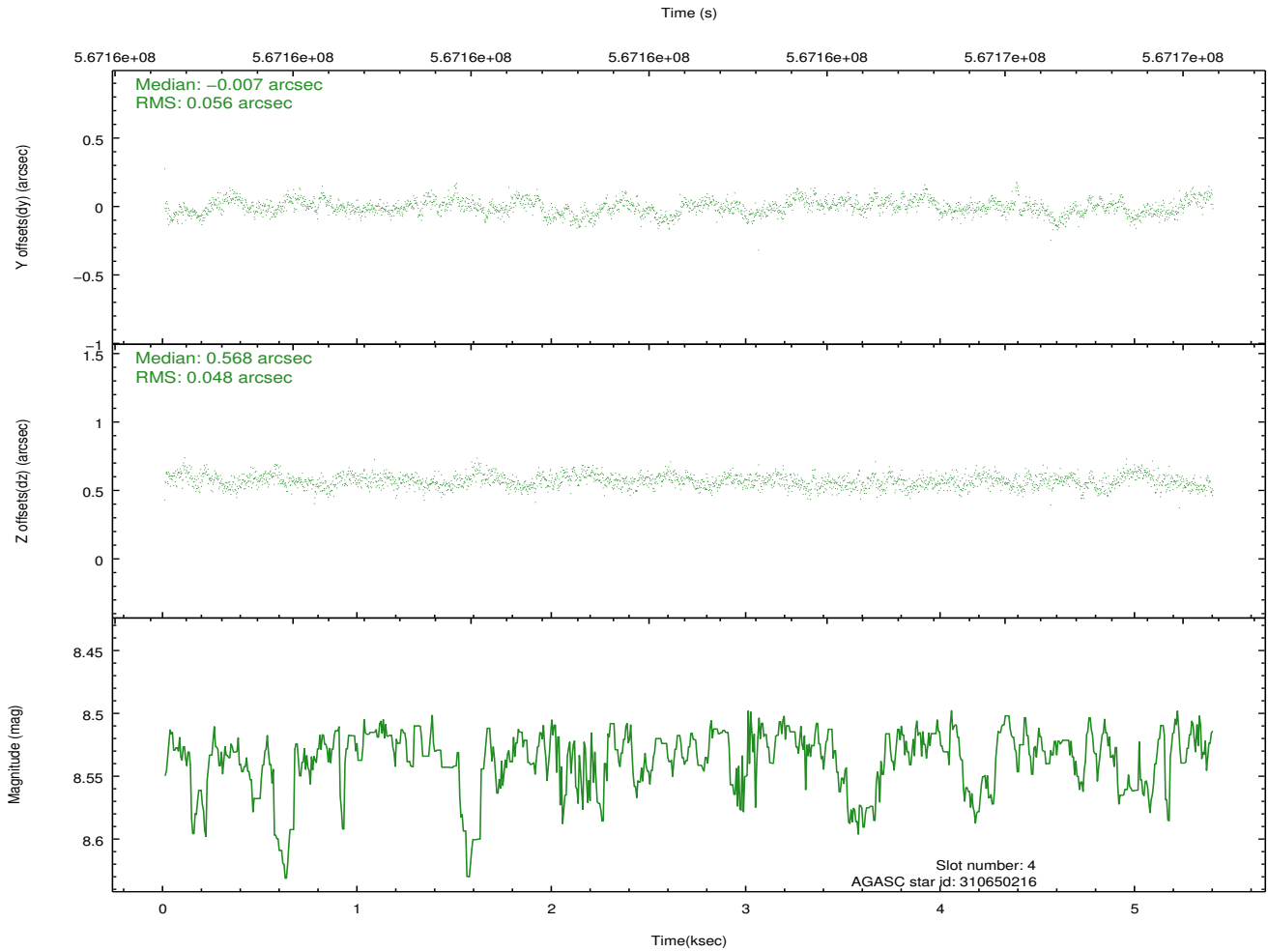
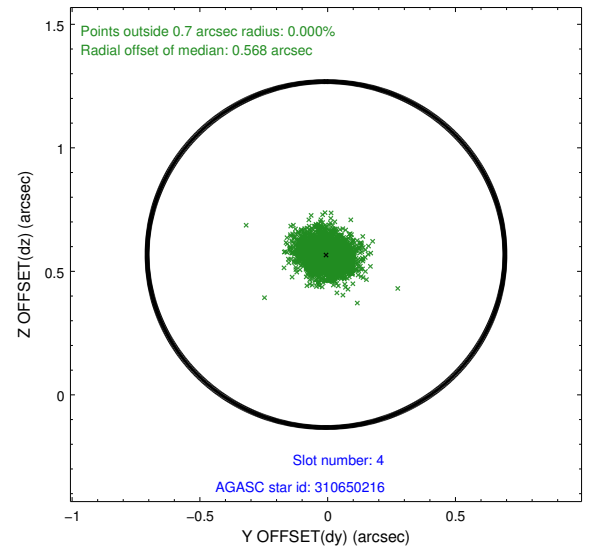
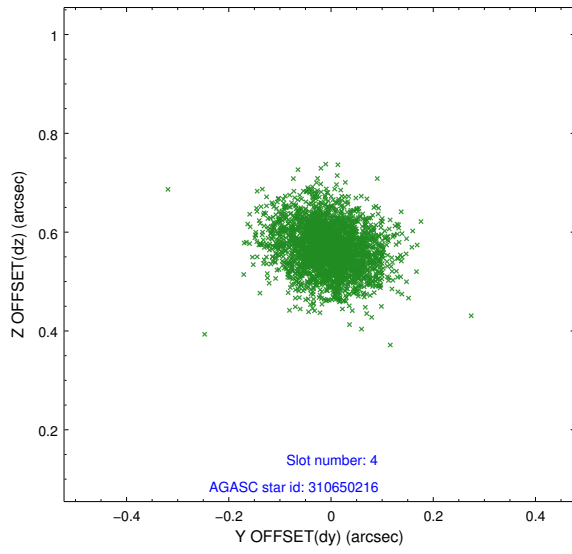
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.22	1316	0.086	-0.030	0.008	0.013	0.000000	0.000000	925.48	-1735.46
1	FID		ACIS-S-4	7.22	1316	0.302	-0.016	0.007	0.011	0.000000	0.000000	2143.68	167.58
2	FID		ACIS-S-5	7.24	1315	-0.415	0.058	0.008	0.014	0.000000	0.000000	-1822.50	162.44
3	GUIDE	used	310125200	9.28	2626	0.451	0.057	0.156	0.248	62.770264	35.225828	1464.18	-490.94
4	GUIDE	used	310650216	8.53	2628	-0.007	0.568	0.078	0.127	62.689439	36.112067	-1278.00	-2138.39
5	GUIDE	used	310654288	9.06	2625	0.132	0.235	0.120	0.187	62.779116	35.928312	-805.83	-1608.28
6	GUIDE	used	311829704	8.83	2629	-0.250	-0.396	0.109	0.179	63.554878	34.844188	1636.86	2193.04
7	GUIDE	used	311826872	8.78	2630	-0.331	-0.462	0.088	0.141	63.768671	35.092520	553.75	2344.28

2.4 Star Slots

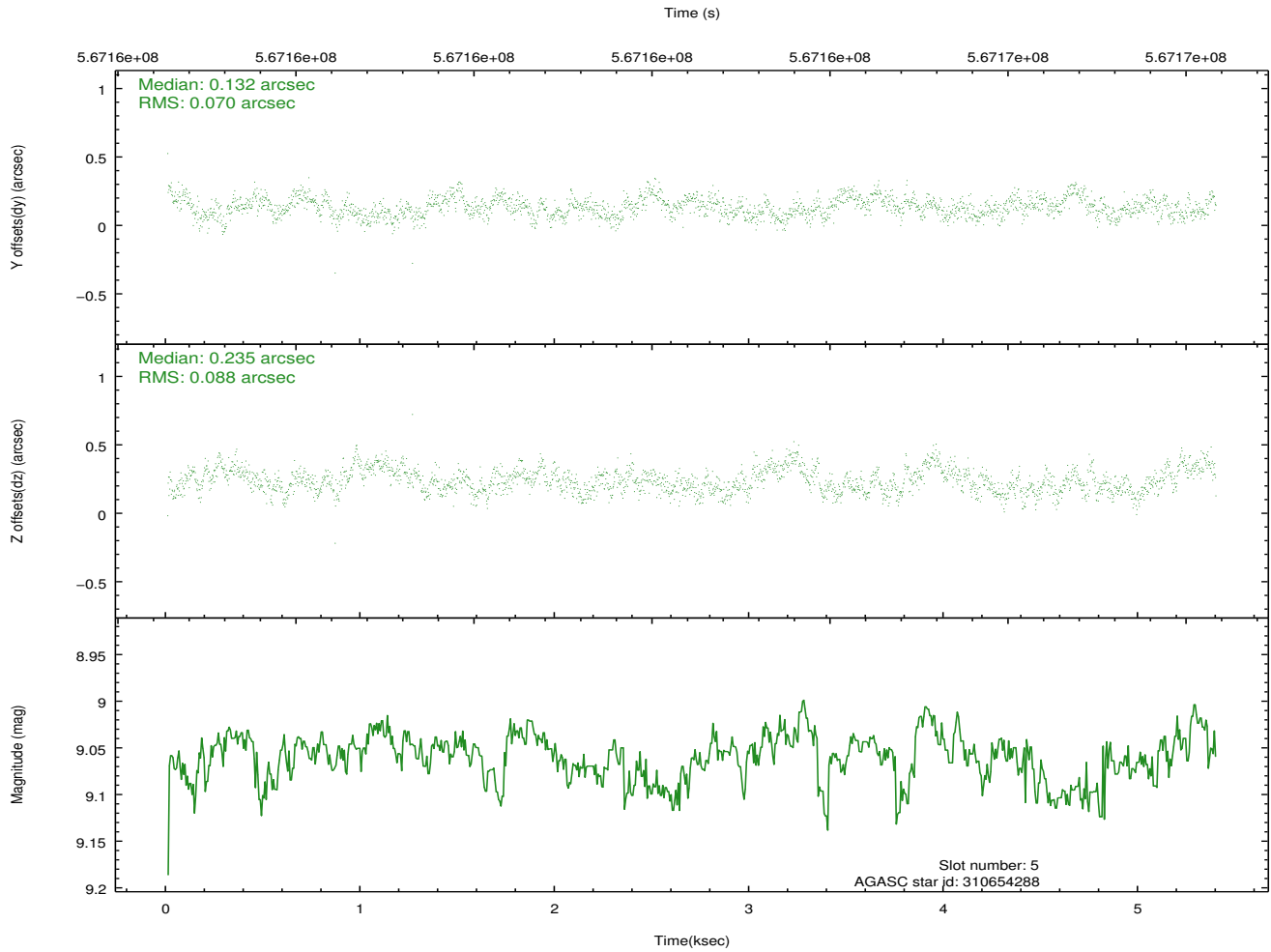
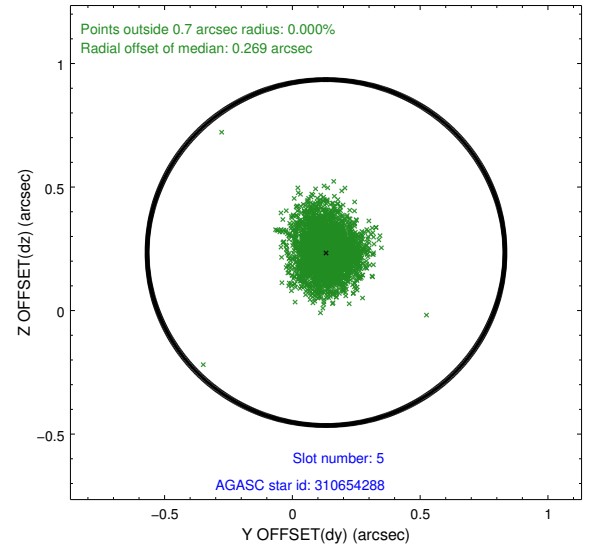
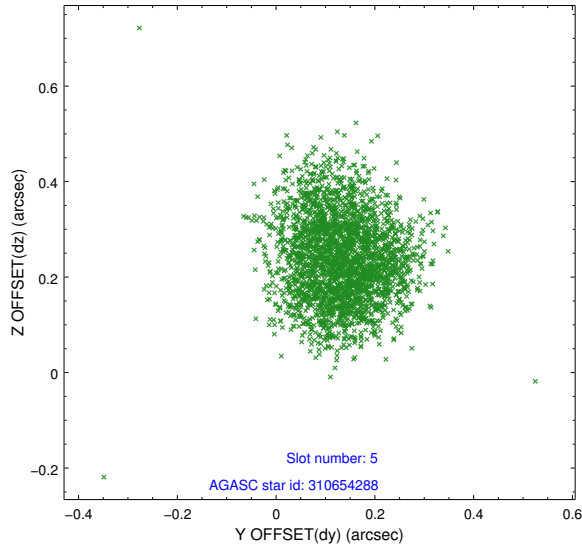
2.4.1 Slot 3



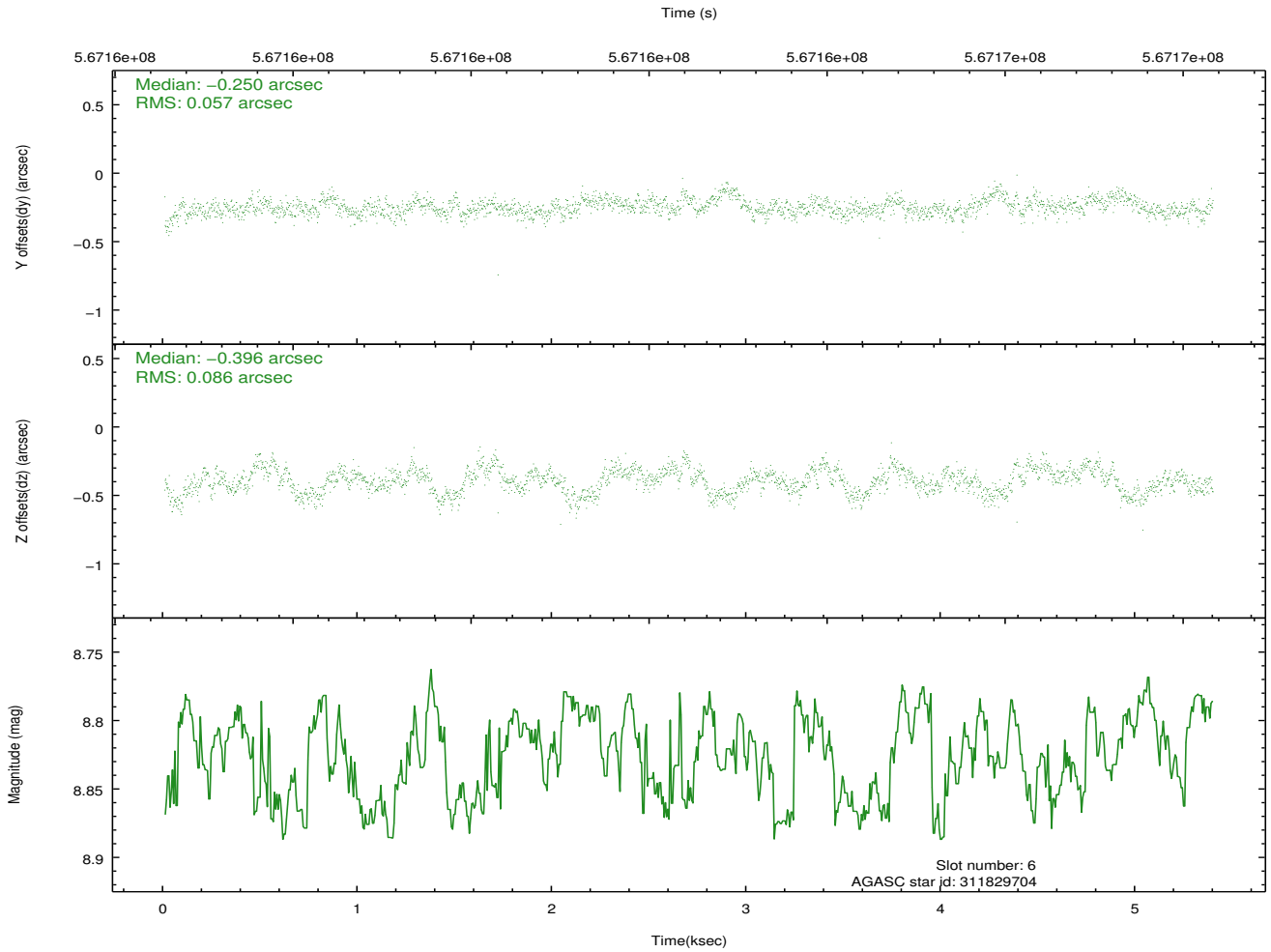
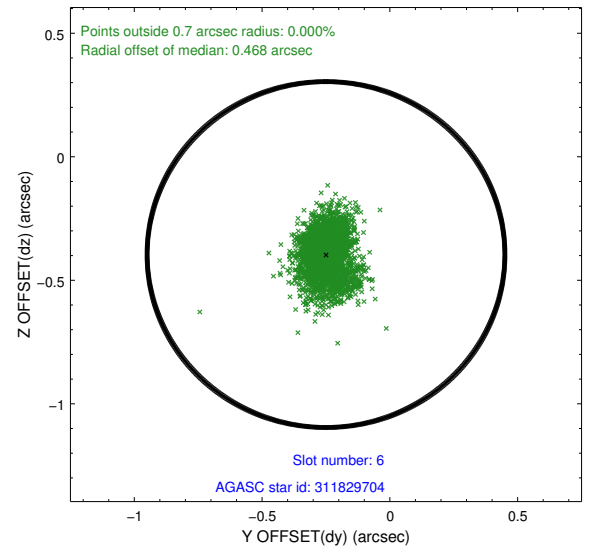
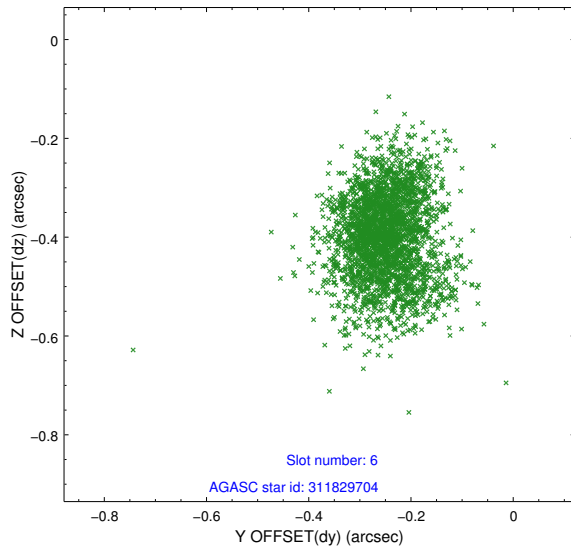
2.4.2 Slot 4



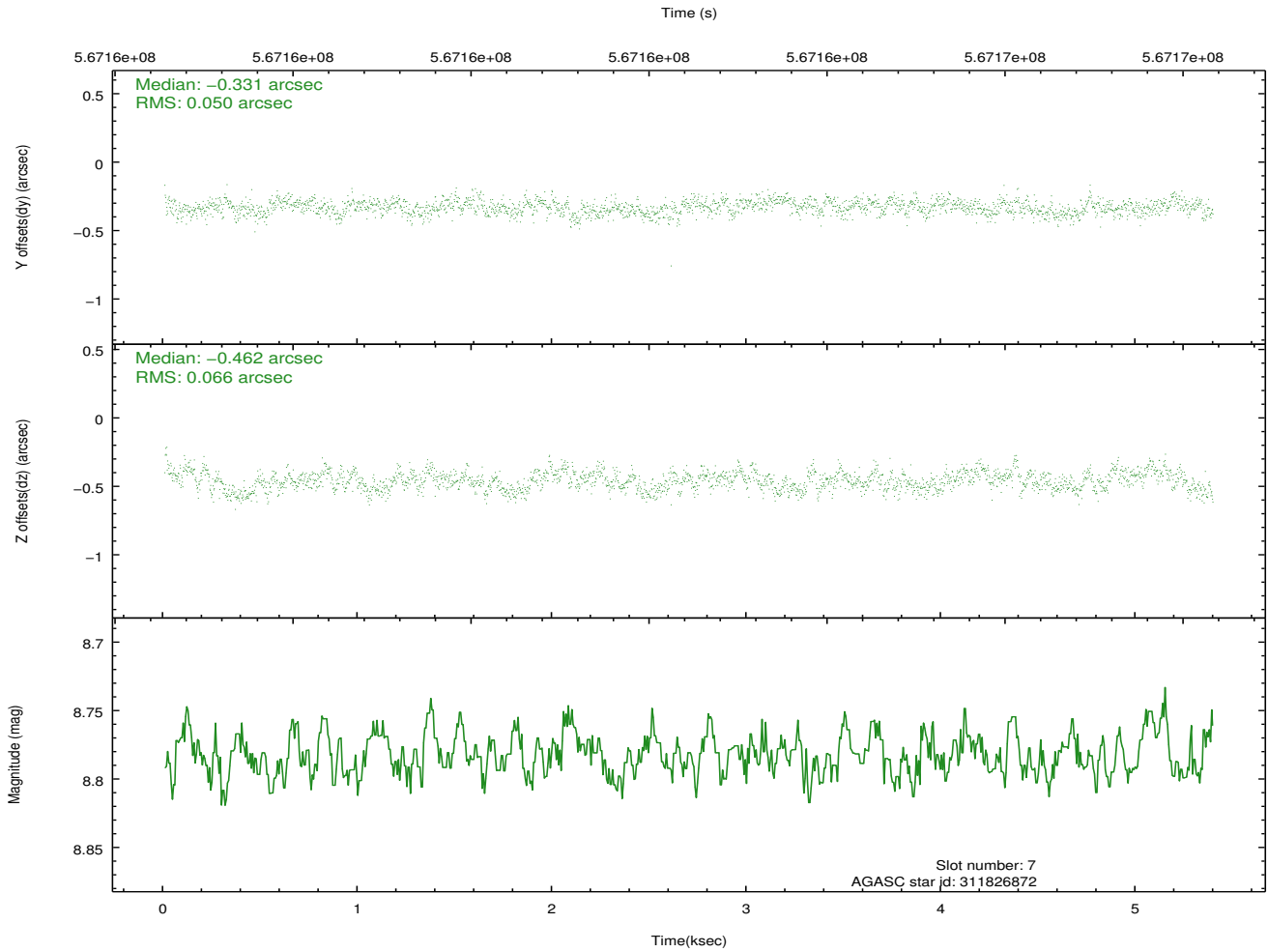
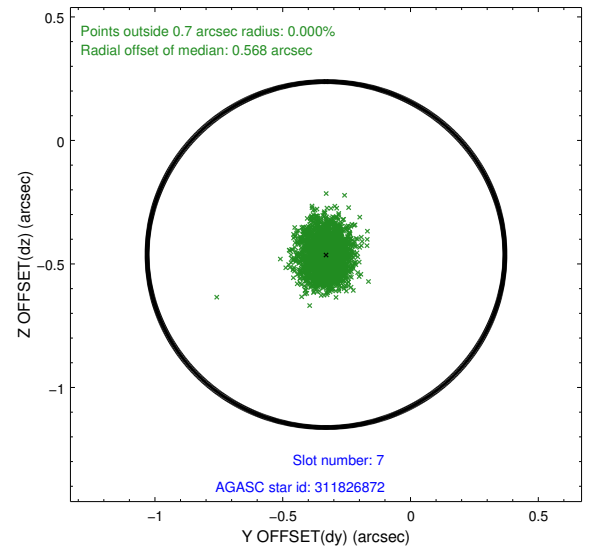
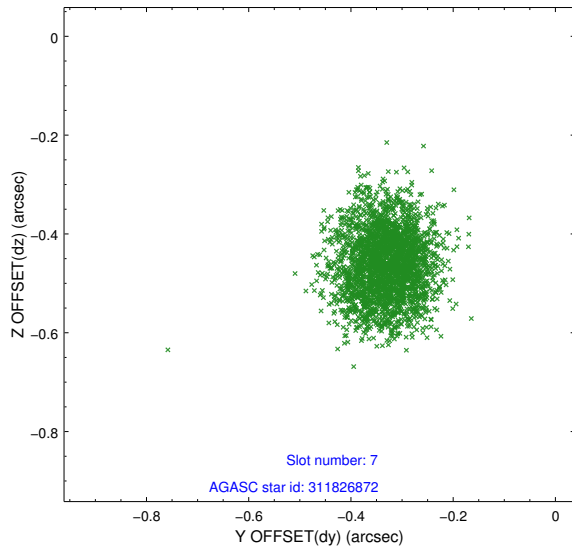
2.4.3 Slot 5



2.4.4 Slot 6

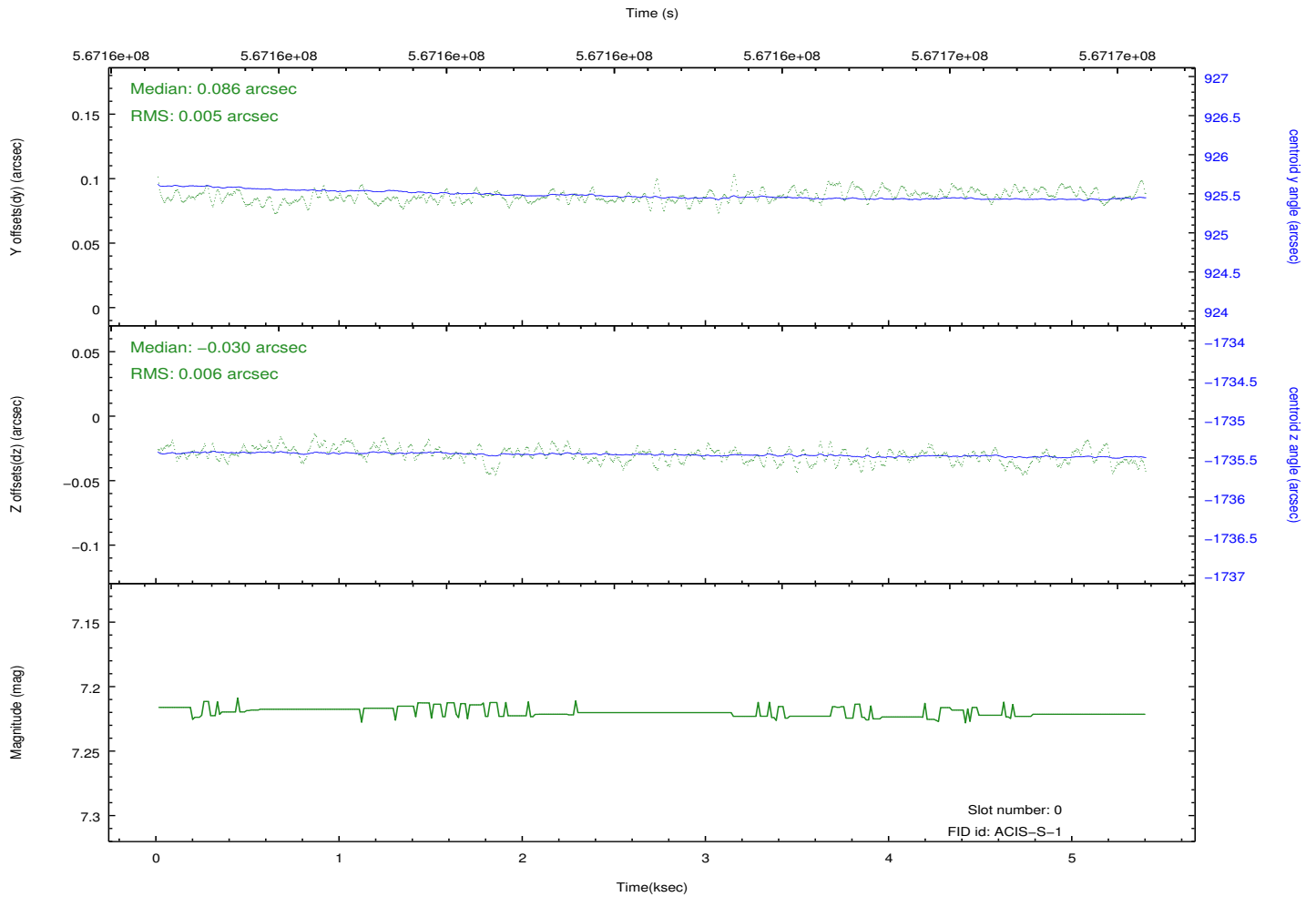
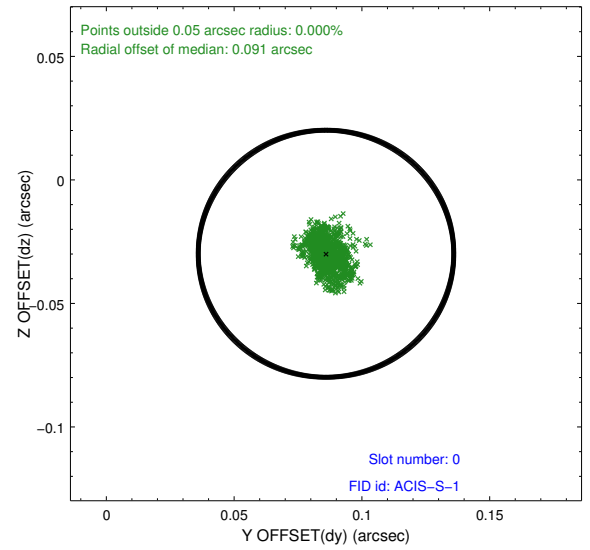
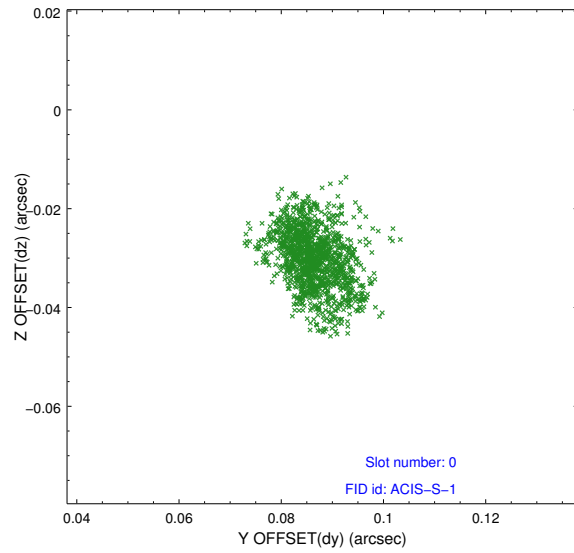


2.4.5 Slot 7

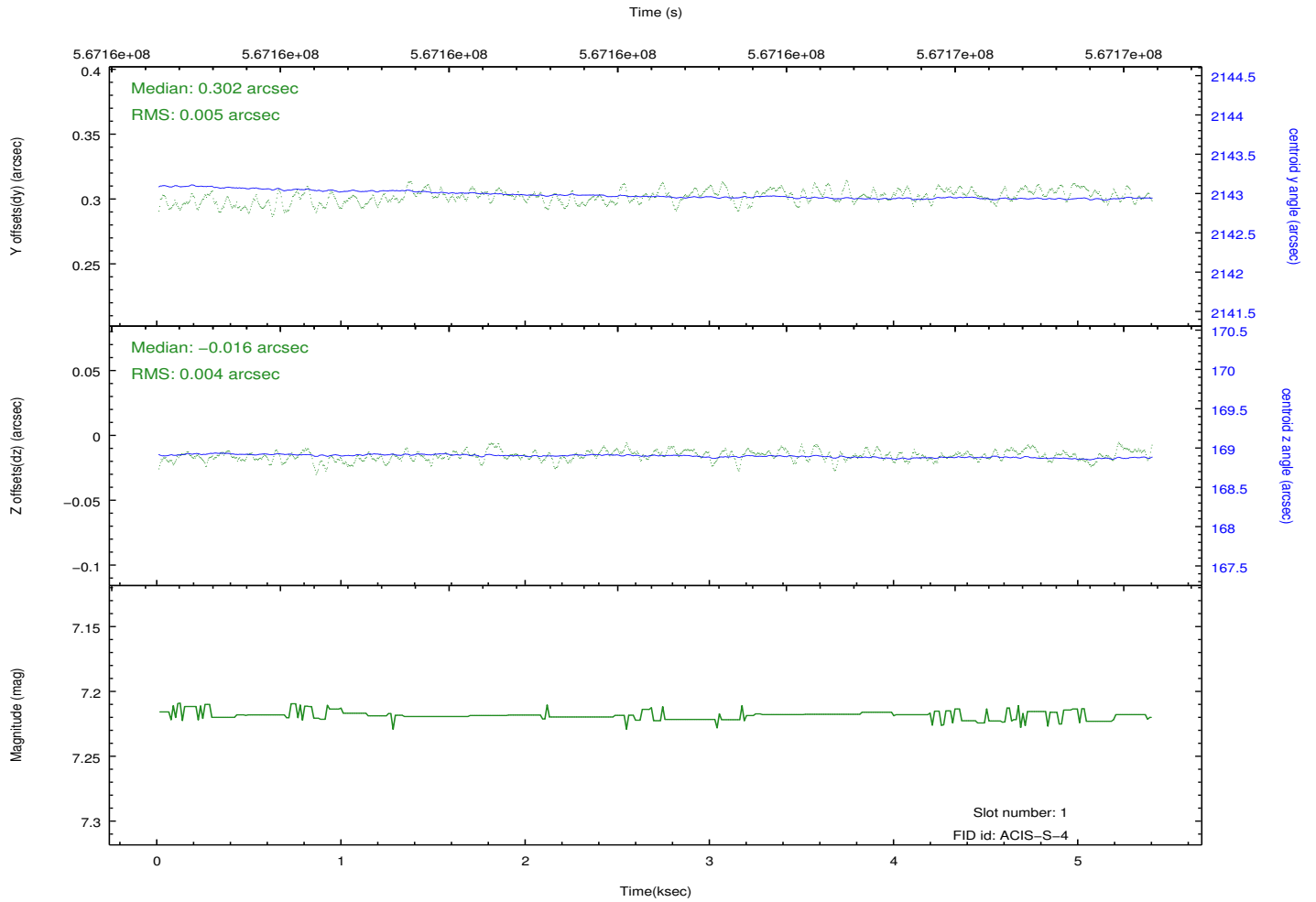
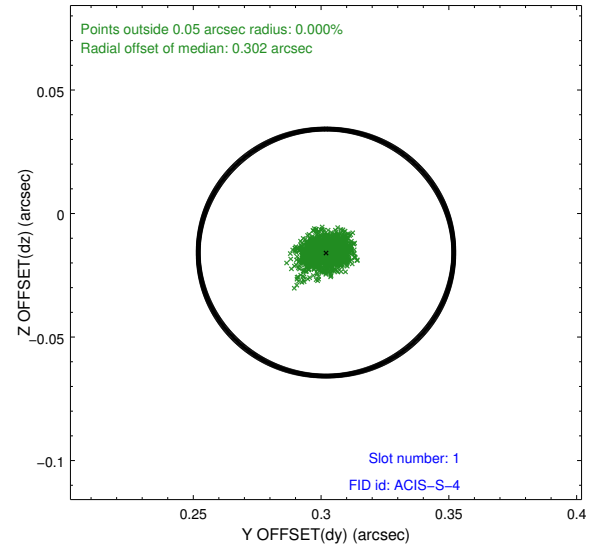
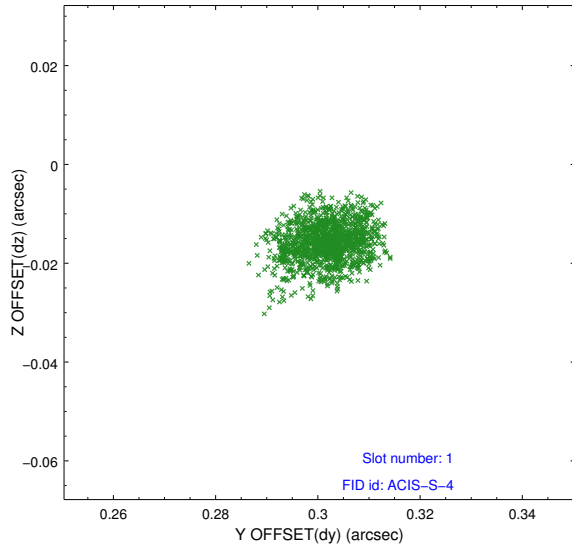


2.5 FID Slots

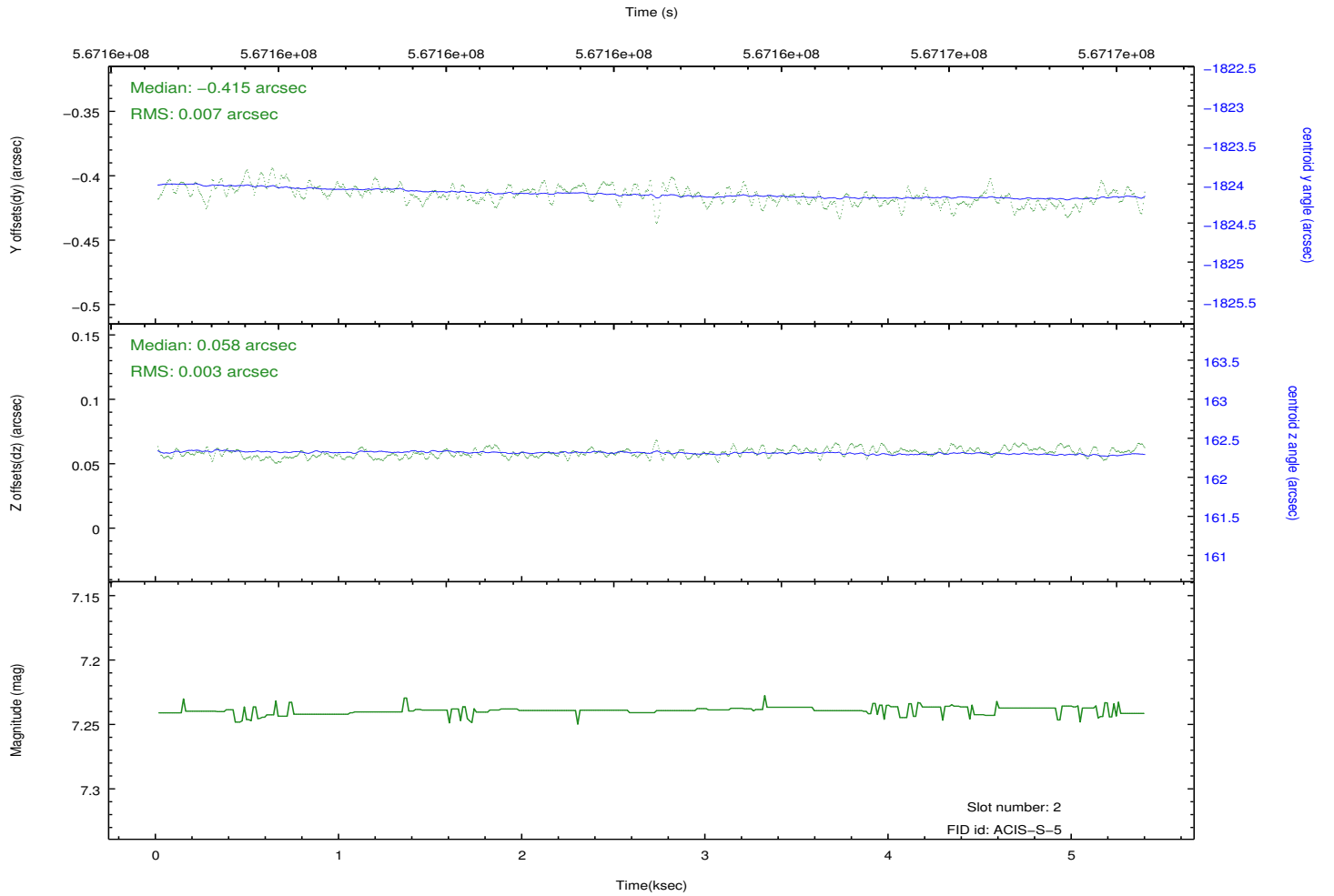
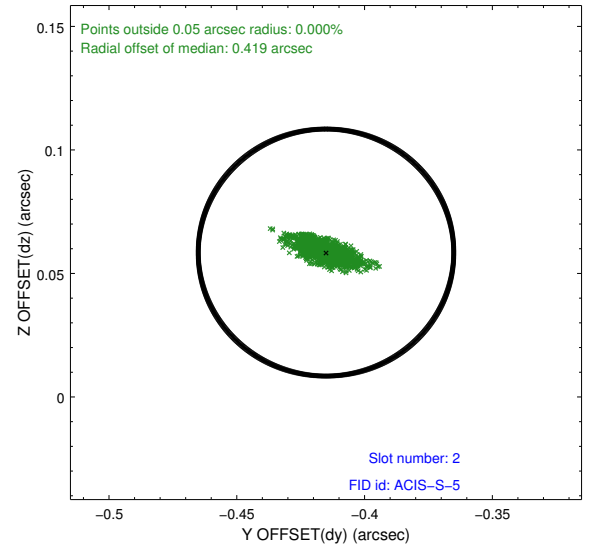
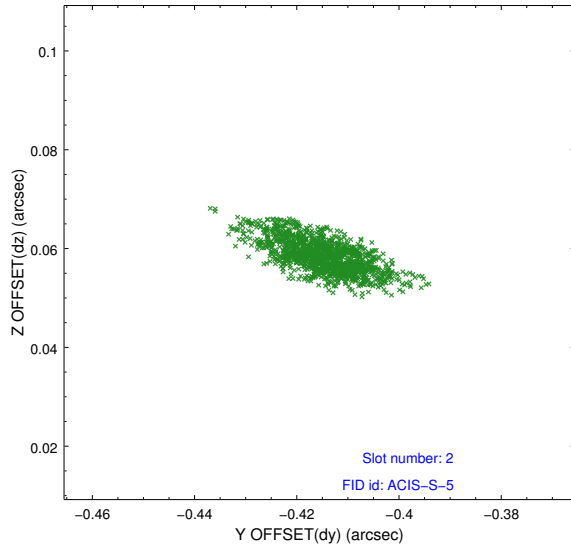
2.5.1 Slot 0



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)	2015.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.2762000406981

A.2 Comments

Joint proposal with Swift.
Optional chip I2 was dropped.