

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18060 - L2 Version 2
Chandra X-Ray Center

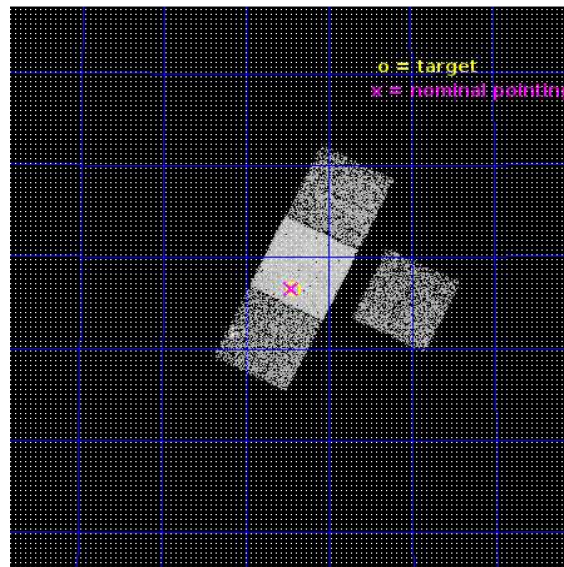
L2 Processing Date : Aug 8 2016

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1 Front

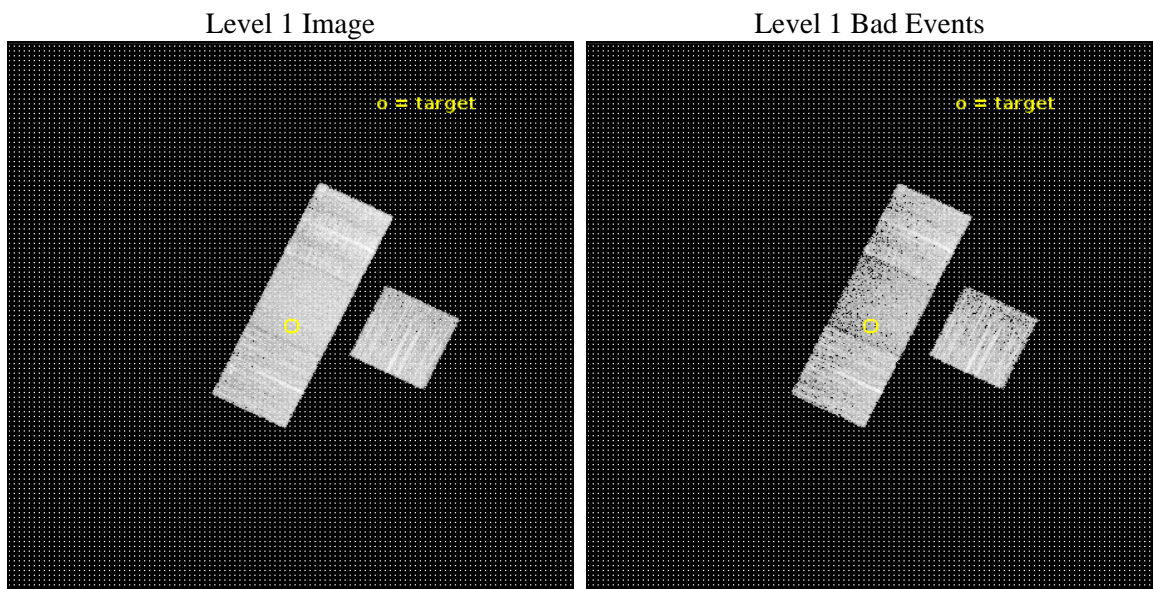
seq_num	601242	Sequence number
obs_id	18060	Observation id
title	Multiwavelength Characterization of Candidate Black Holes in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J1213+5436	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.35819	Observer's specified target RA [deg]
dec_targ	54.6088	Observer's specified target Dec [deg]
ra_nom	183.36239007658	Nominal RA [deg]
dec_nom	54.609582272069	Nominal Dec [deg]
roll_nom	296.0424978431	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7058.7000544071	Sum of GTIs [s]
livetime	6966.4729416569	Livetime [s]
ontime3	7055.5590342283	Sum of GTIs [s]
ontime6	7058.7000544071	Sum of GTIs [s]
ontime7	7058.7000544071	Sum of GTIs [s]
ontime8	7058.7000544071	Sum of GTIs [s]
l2events	35373	Number of level 2 events



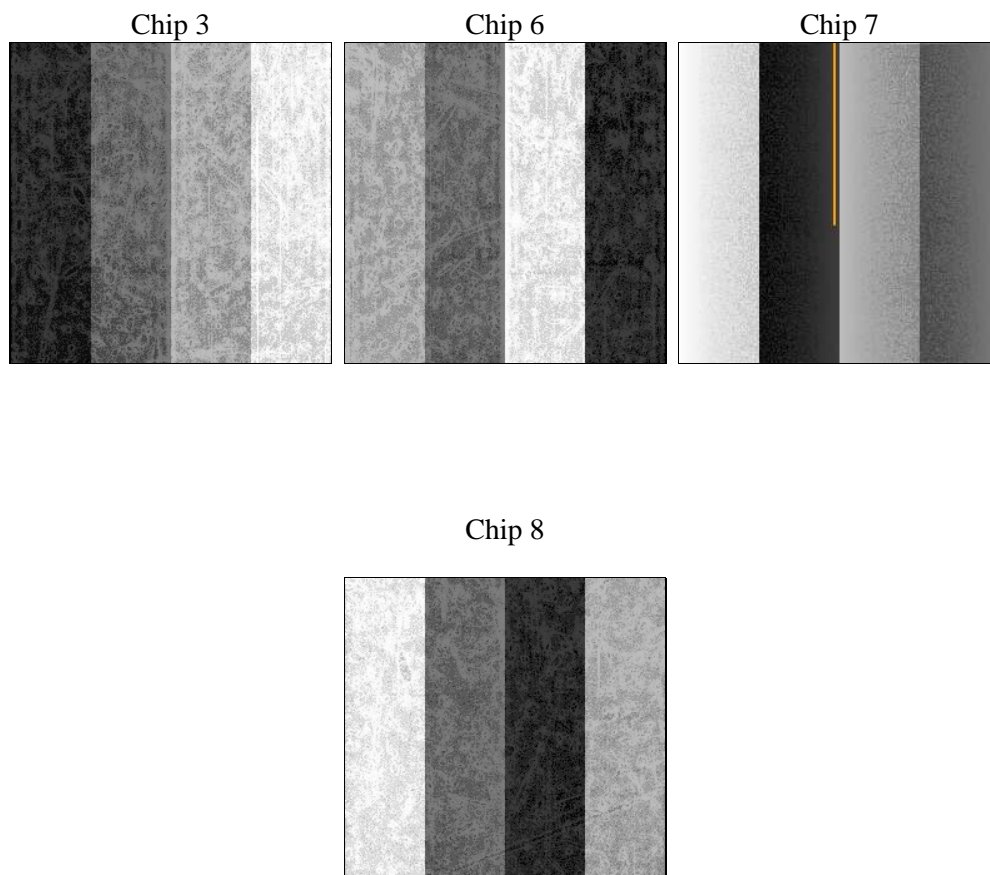
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.876000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	7058.7000544071	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	7055.5590342283	Sum of GTIs [s]
date	2016-08-08T15:52:54	Date and time of file creation	ontime6	7058.7000544071	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7058.7000544071	Sum of GTIs [s]
			ontime8	7058.7000544071	Sum of GTIs [s]
			l1events	190346	Number of level 1 events

2.1.4 Events

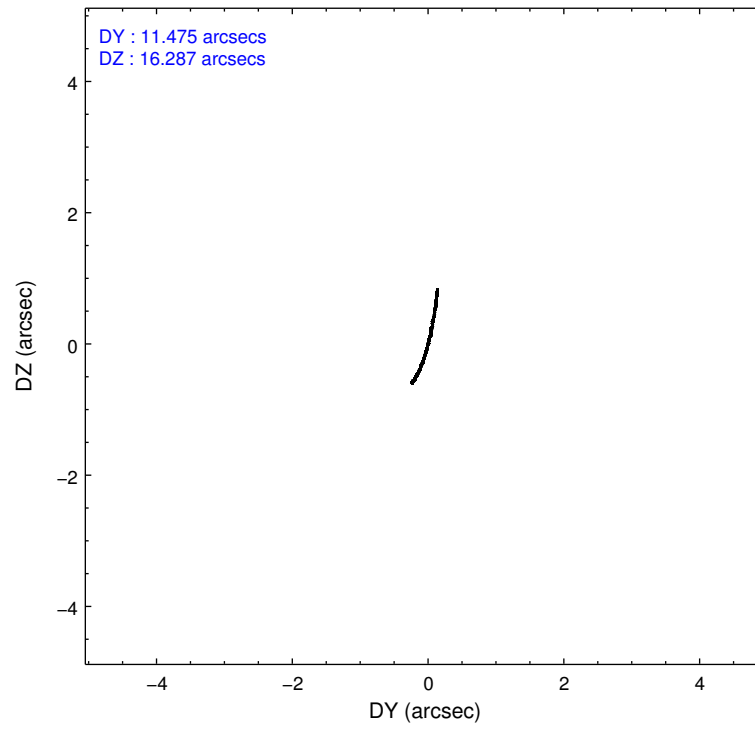
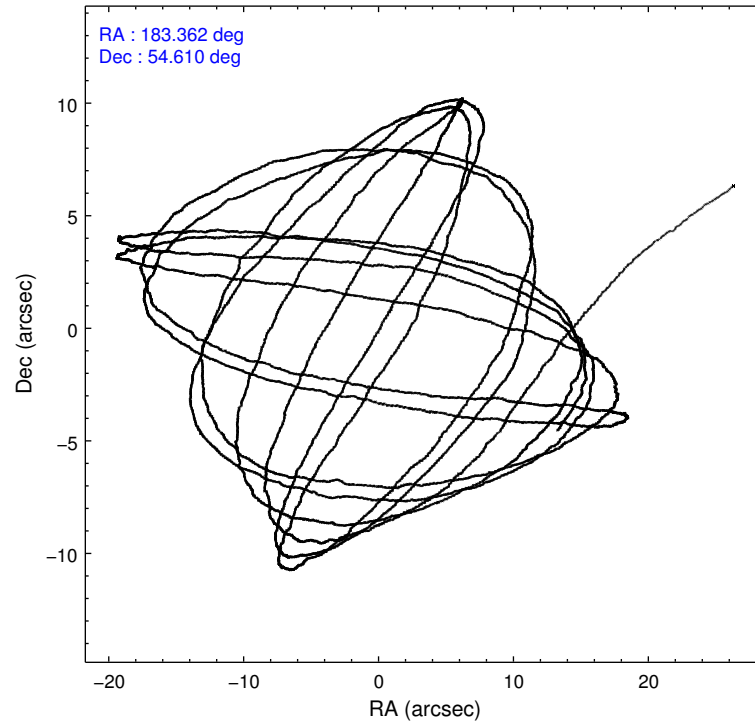
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	42377	42708	47752	57509
rejected events	38047	37529	25437	41761
rejected %	89%	87%	53%	72%

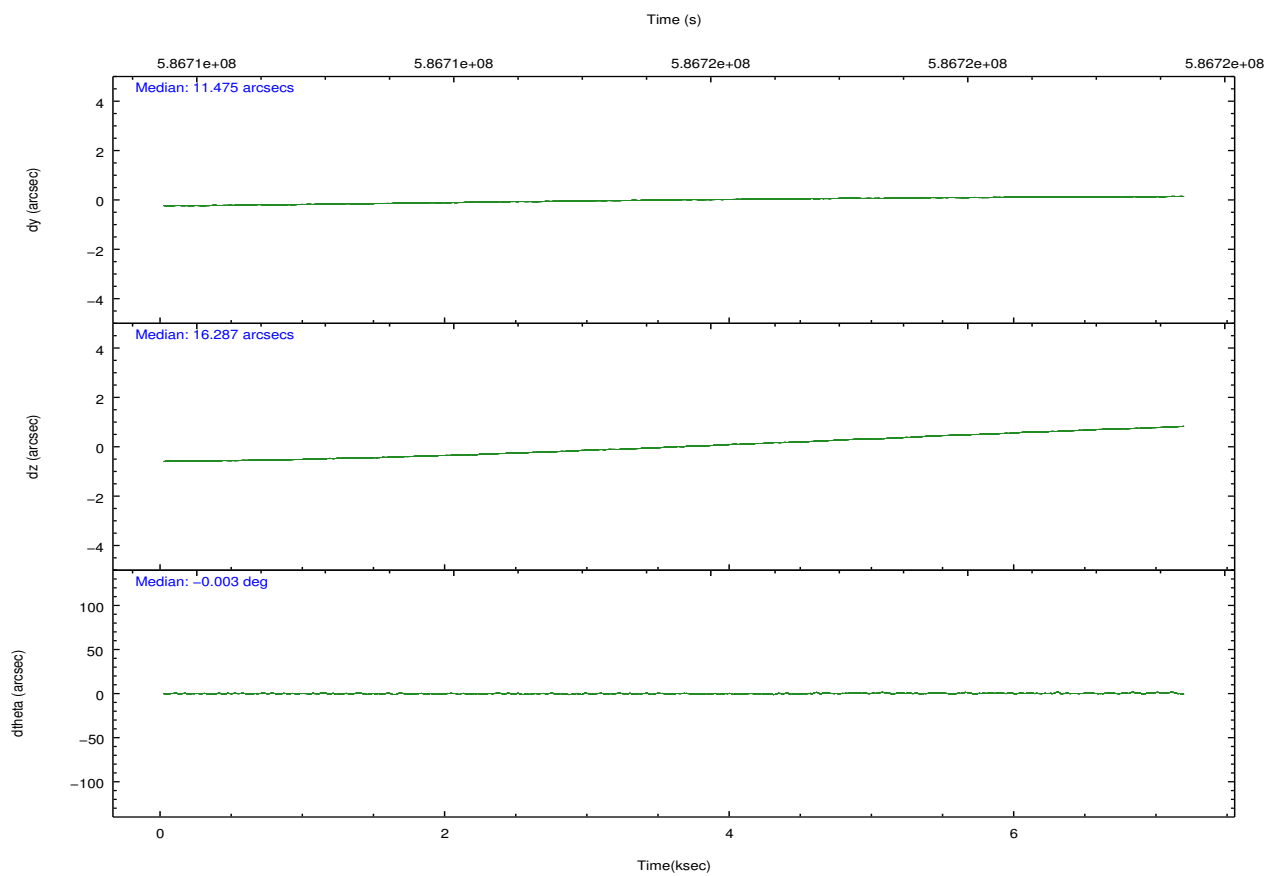
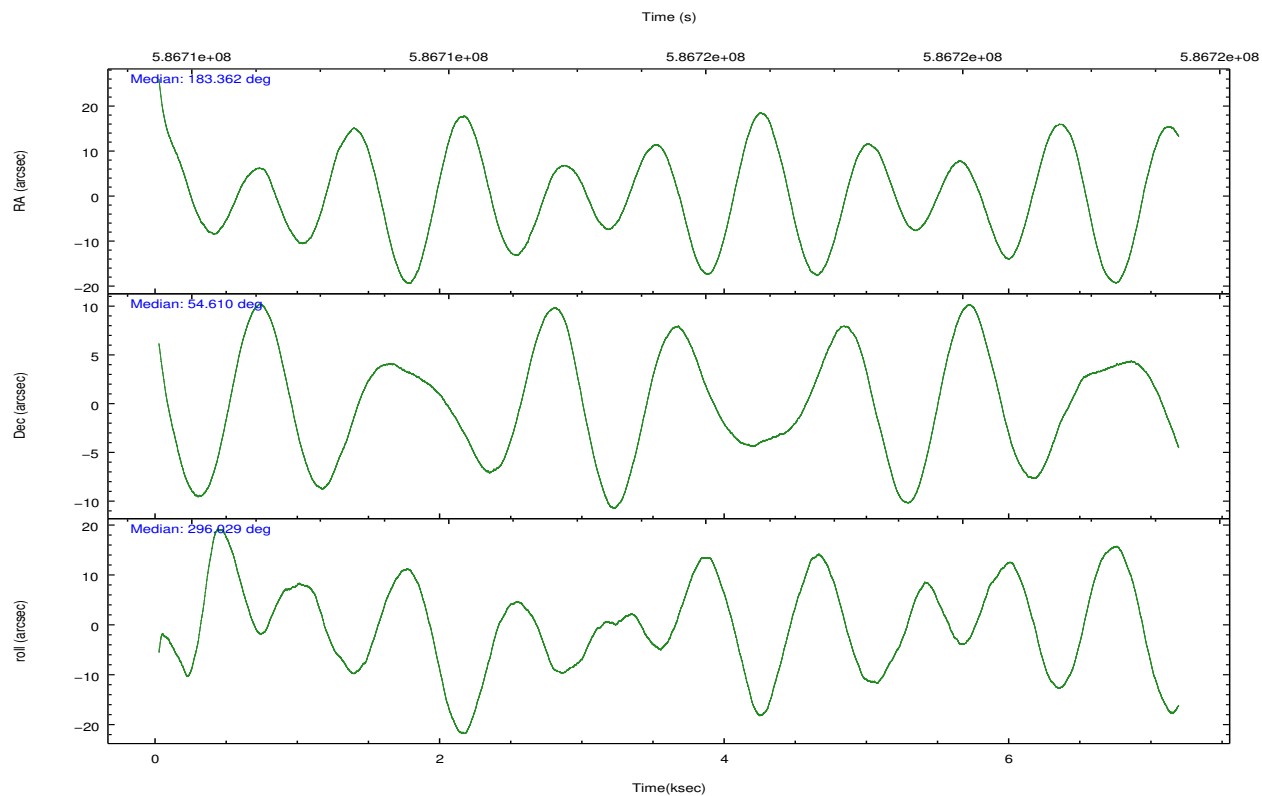
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1549	1948	2138	4165
	3%	4%	4%	7%
grade 1 events	24	25	77	51
	0%	0%	0%	0%
grade 2 events	976	1207	4857	3914
	2%	2%	10%	6%
grade 3 events	468	515	1838	1676
	1%	1%	3%	2%
grade 4 events	430	471	1845	1531
	1%	1%	3%	2%
grade 5 events	1742	1682	5005	2754
	4%	3%	10%	4%
grade 6 events	907	1042	11643	4487
	2%	2%	24%	7%
grade 7 events	36281	35818	20349	38931
	85%	83%	42%	67%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	183.322654	183.3623900765772	CCD I2 on	N	N
[deg] Pointing Dec	54.624609	54.60958227206925	CCD I3 on	O1	Y
[deg] Pointing Roll	295.918243	296.042497843097	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	586712322.184000	586711090.18197	CCD S5 on	N	N
Observation start date	2016-08-04T15:37:34	2016-08-04T15:18:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	586719323.184000	586719550.01996	On-chip summing requested	N	N
Observation end date	2016-08-04T17:34:15	2016-08-04T17:39:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



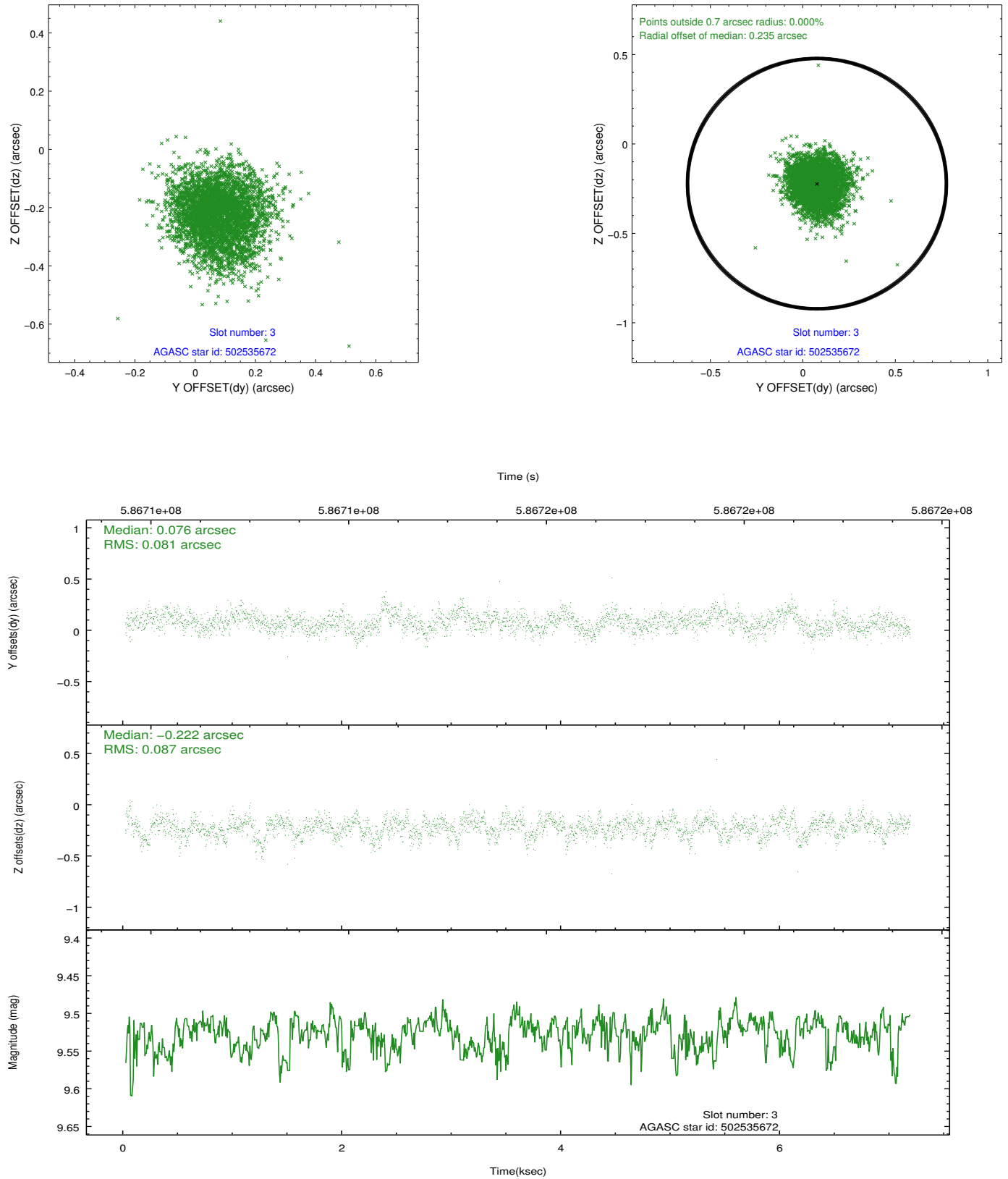


Slot Statistics

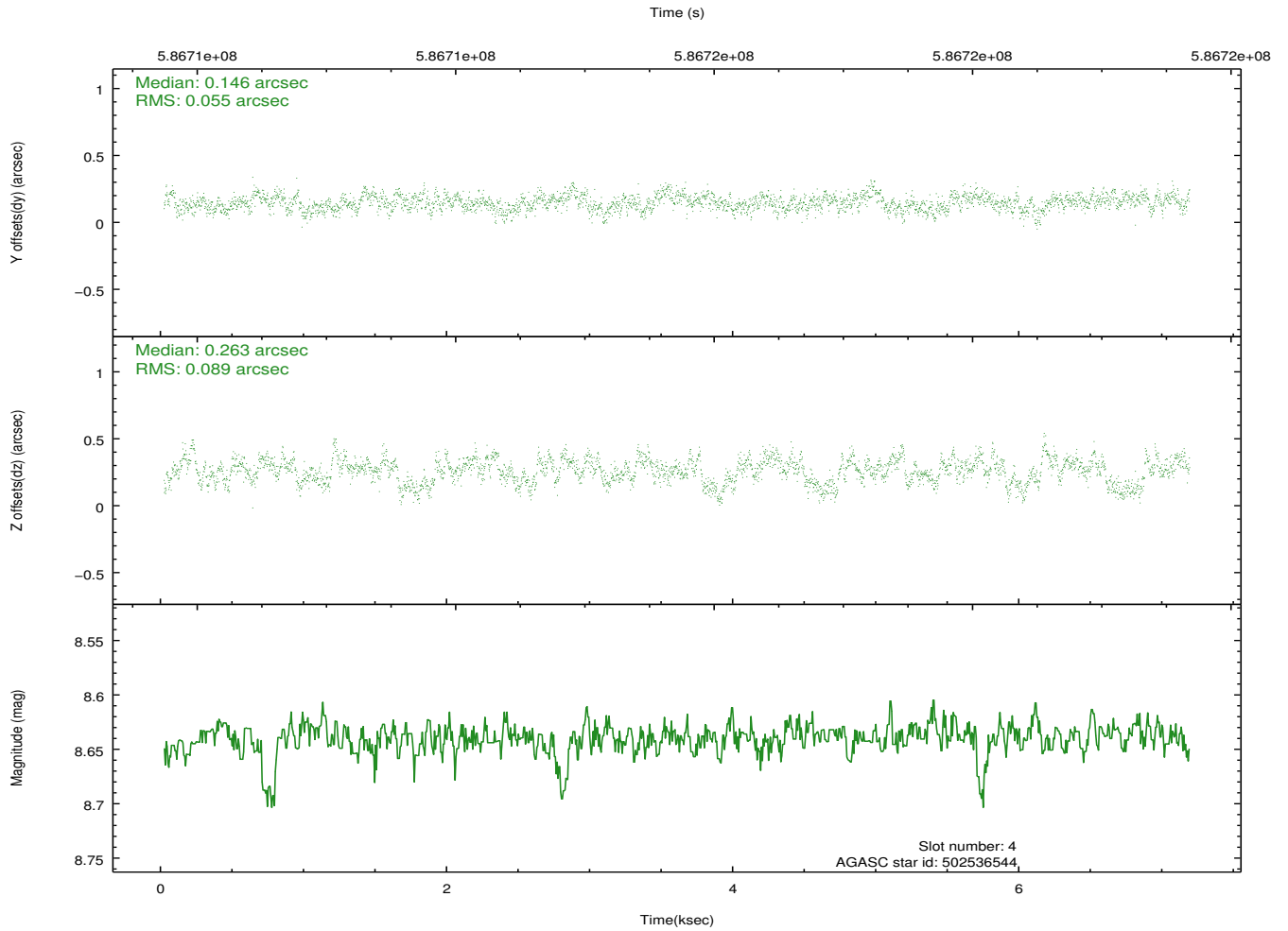
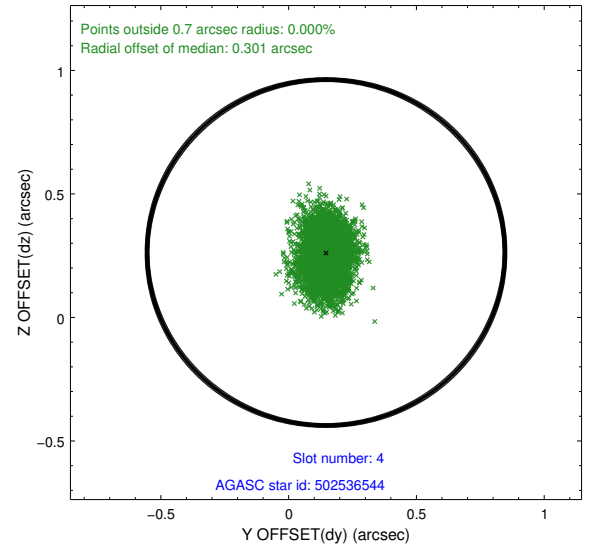
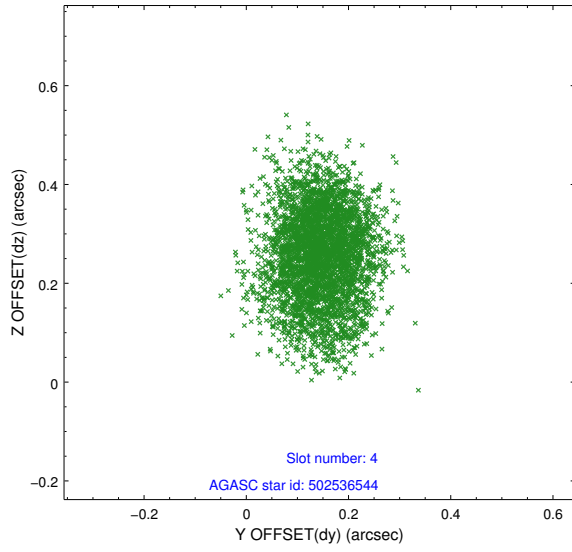
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	1749	-0.179	-0.103	0.007	0.011	0.000000	0.000000	-764.53	-1737.77
1	FID		ACIS-S-4	7.17	1749	0.228	0.096	0.009	0.014	0.000000	0.000000	2148.81	170.03
2	FID		ACIS-S-6	7.30	1749	-0.077	0.015	0.012	0.018	0.000000	0.000000	398.62	808.29
3	GUIDE	used	502535672	9.53	3494	0.076	-0.222	0.128	0.199	183.570927	54.179594	1669.00	-229.36
4	GUIDE	used	502536544	8.64	3496	0.146	0.263	0.111	0.182	182.566145	54.488139	-255.26	-1633.09
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	502537728	7.94	3498	-0.075	0.119	0.079	0.128	182.778005	54.358912	357.45	-1444.45
7	GUIDE	used	502533208	8.75	3495	-0.152	-0.150	0.100	0.157	184.085536	54.813345	73.18	1723.33

2.4 Star Slots

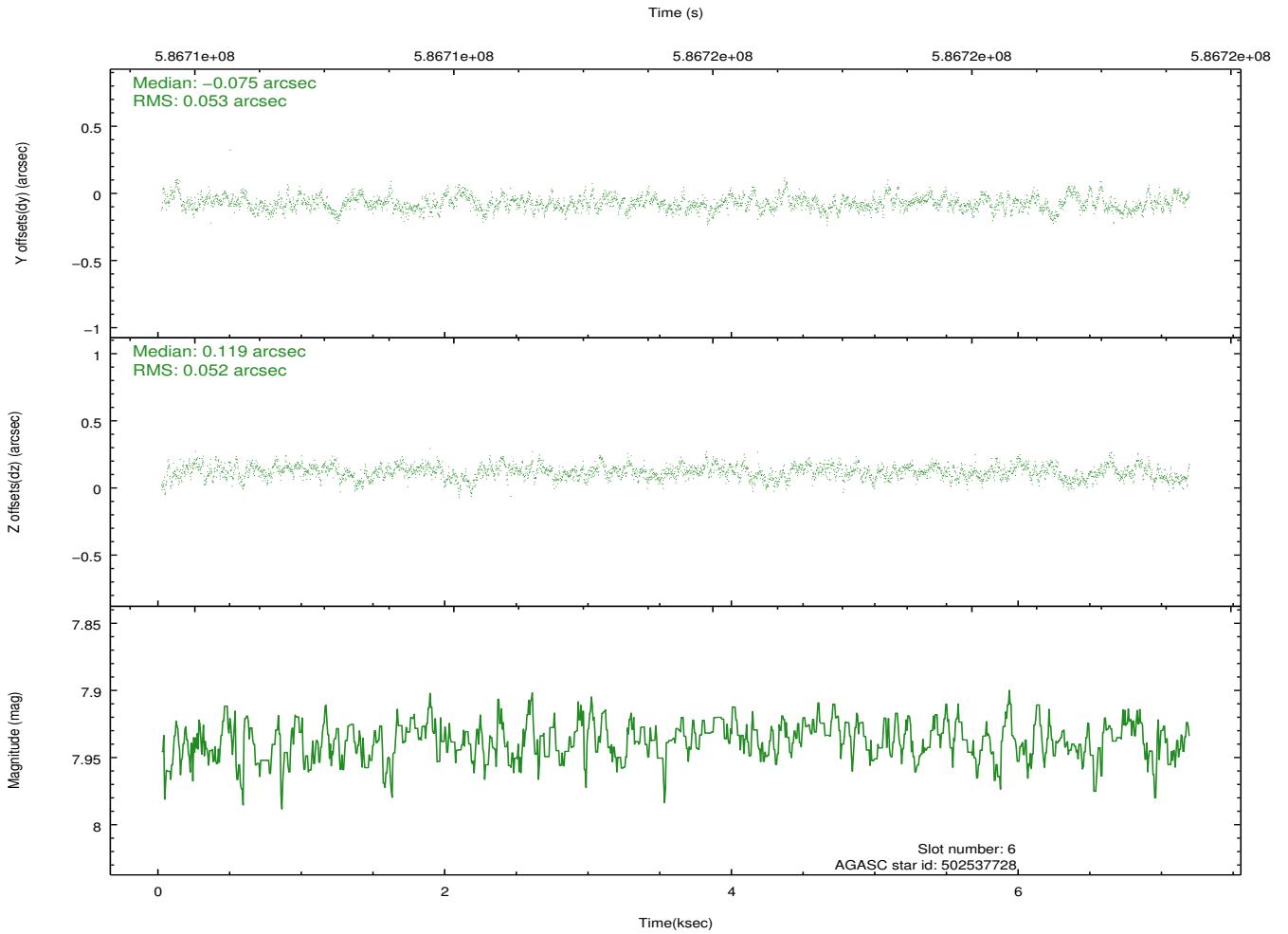
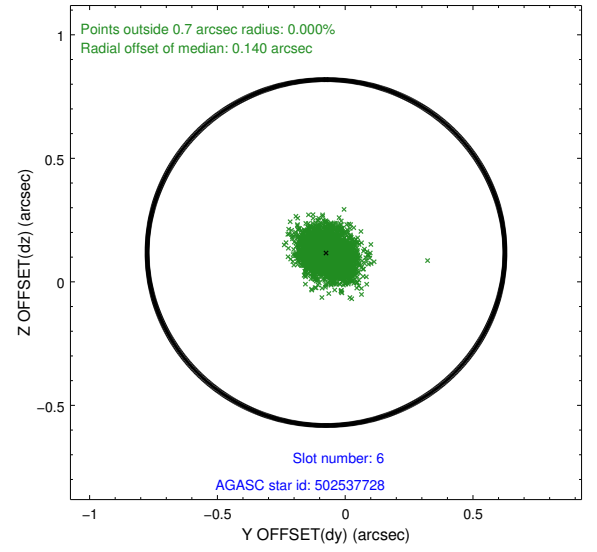
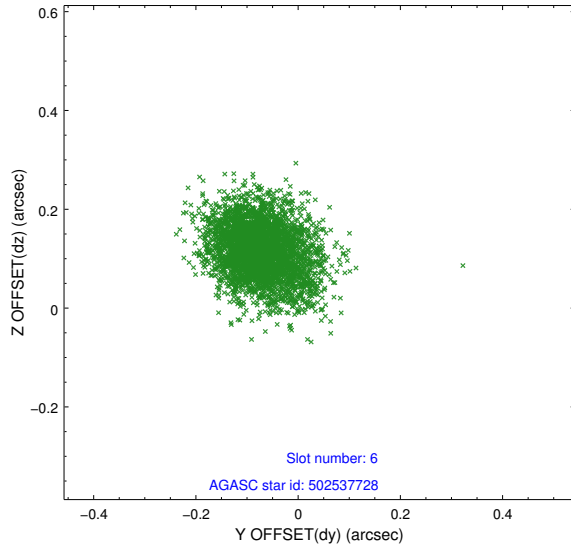
2.4.1 Slot 3



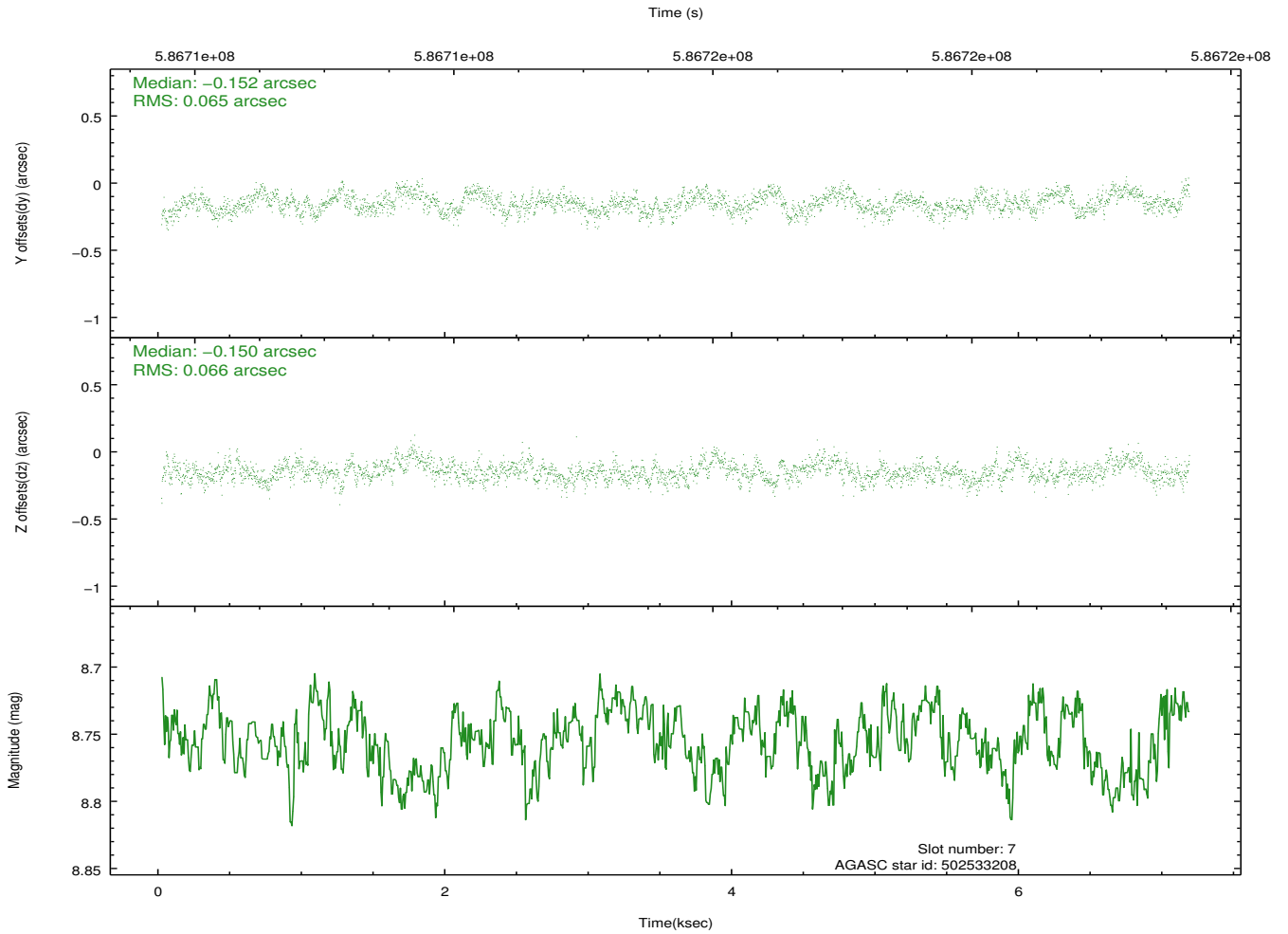
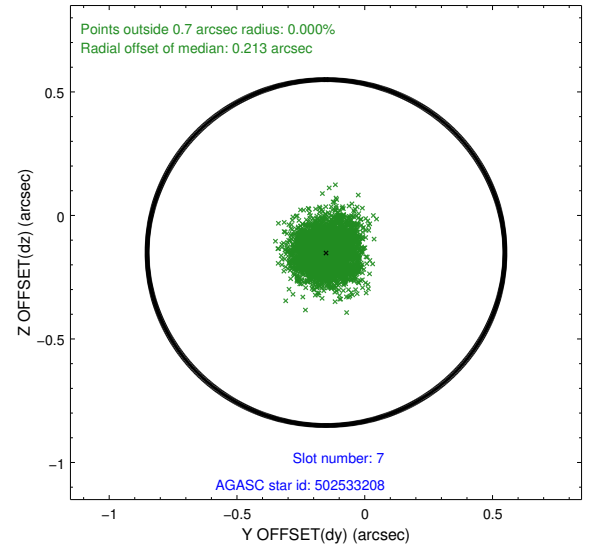
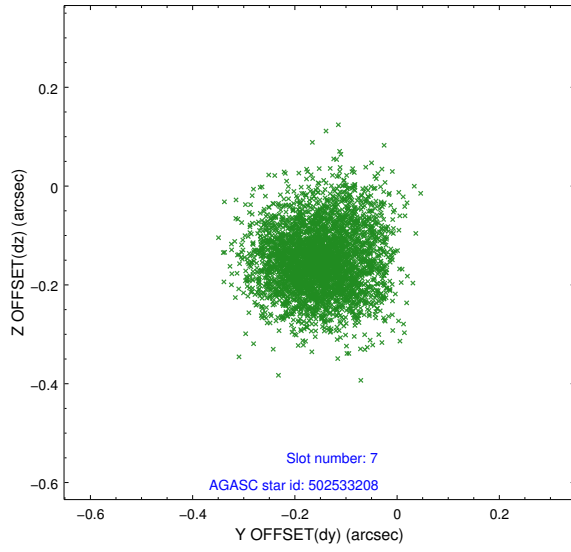
2.4.2 Slot 4



2.4.3 Slot 6

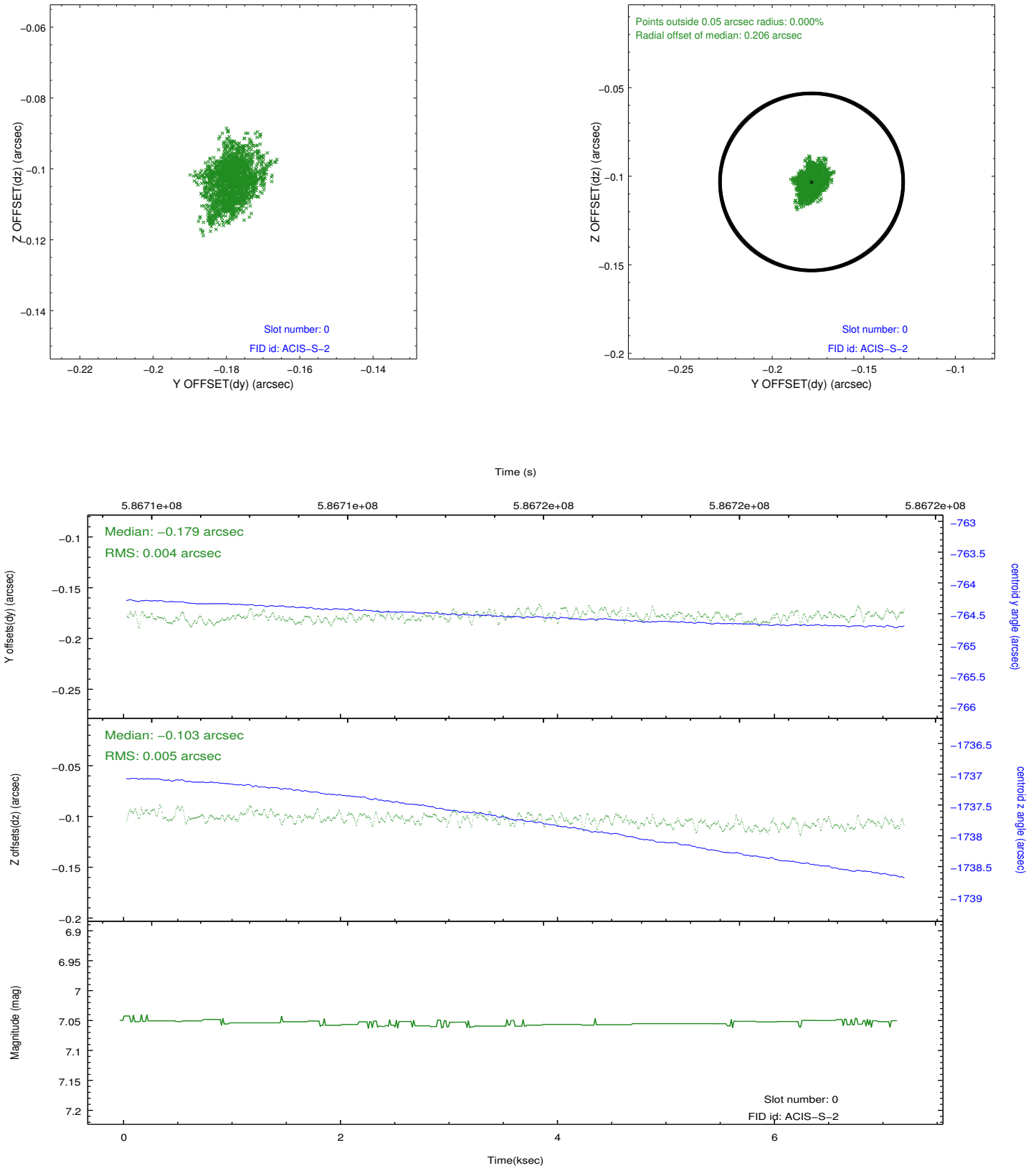


2.4.4 Slot 7

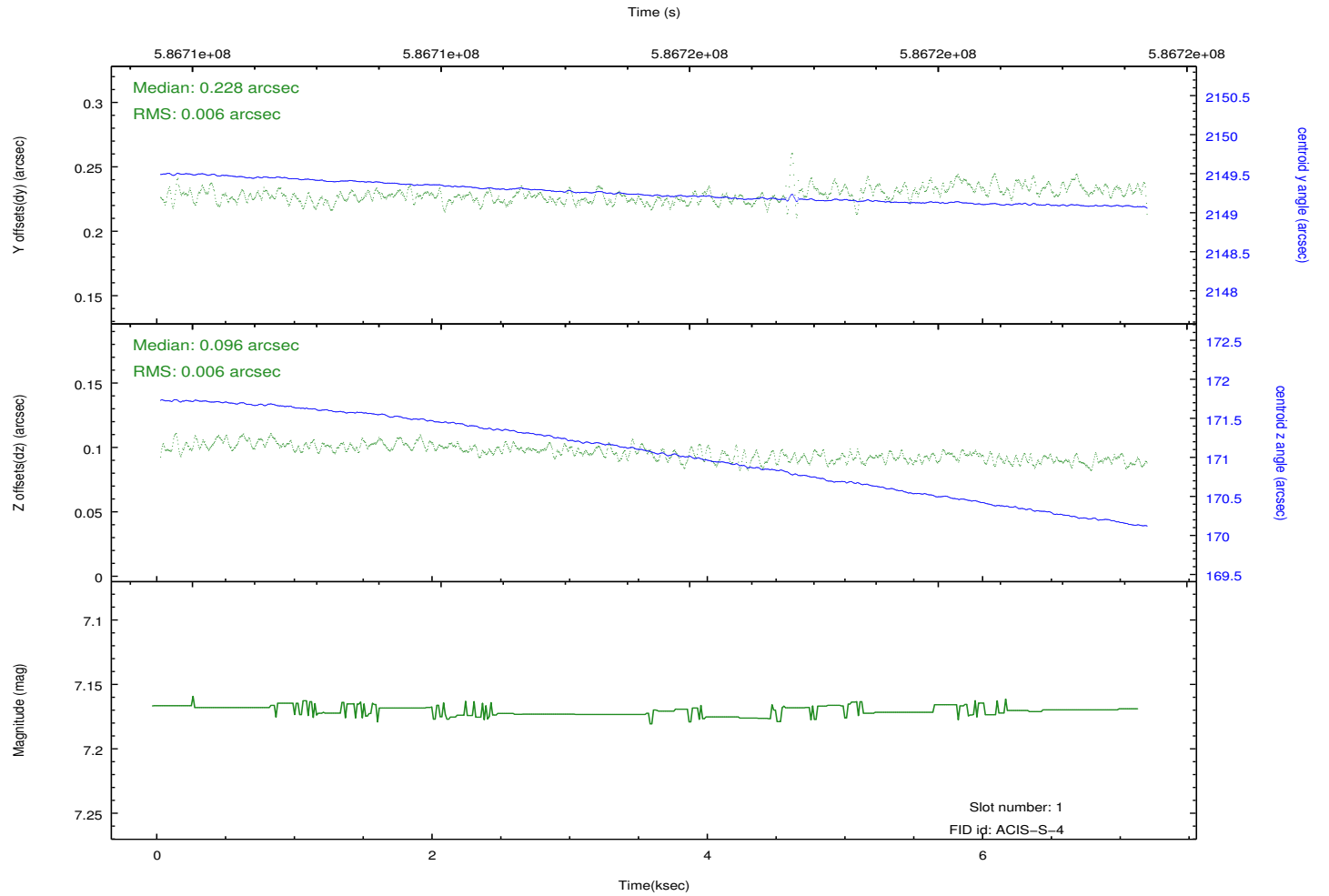
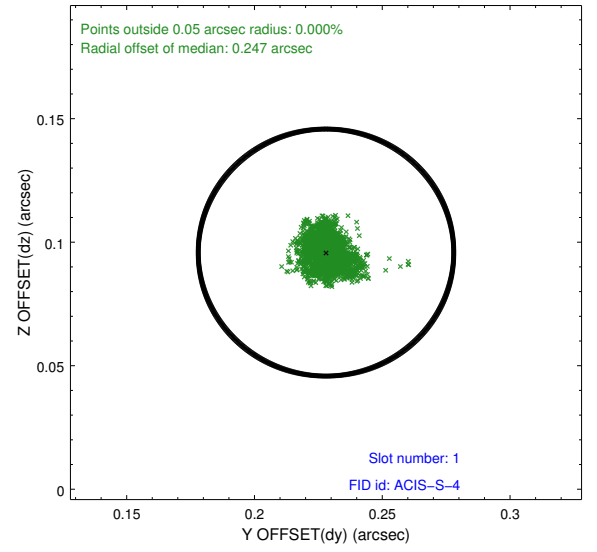
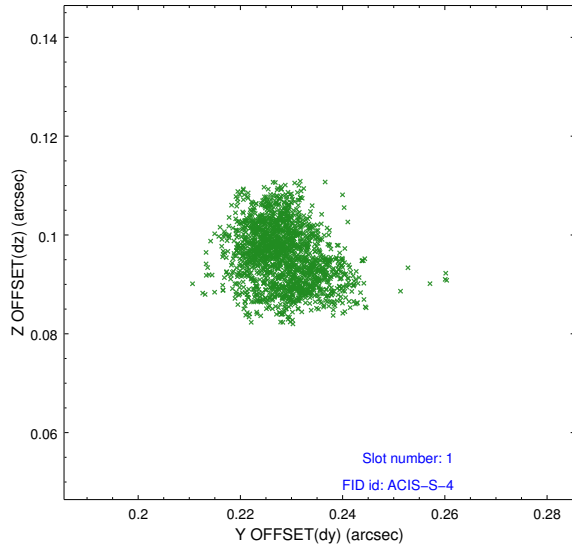


2.5 FID Slots

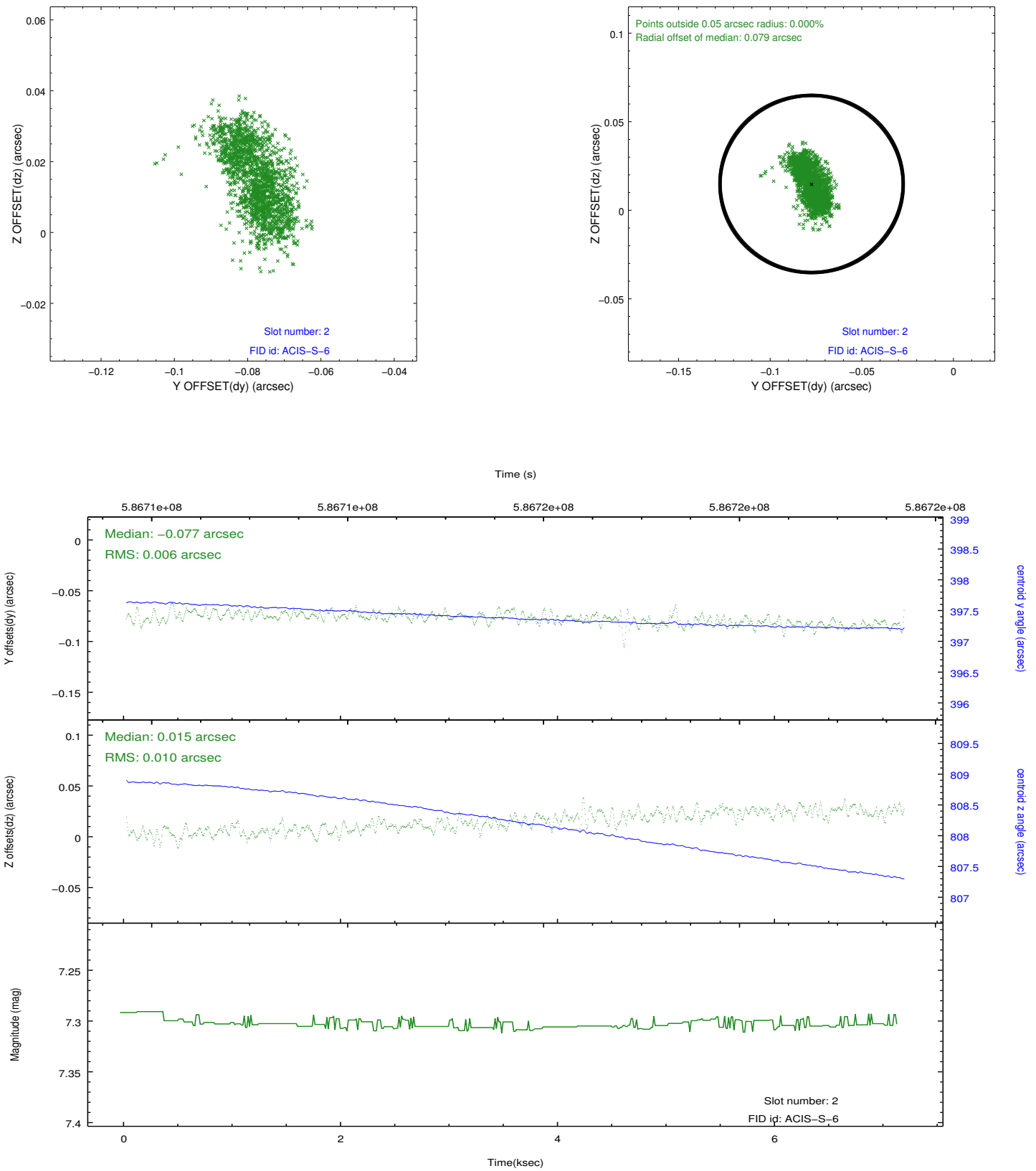
2.5.1 Slot 0



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)	2016.08.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0587000544071

A.2 Comments

Joint proposal with HST and NRAO.

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.