

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17101 - L2 Version 1
Chandra X-Ray Center

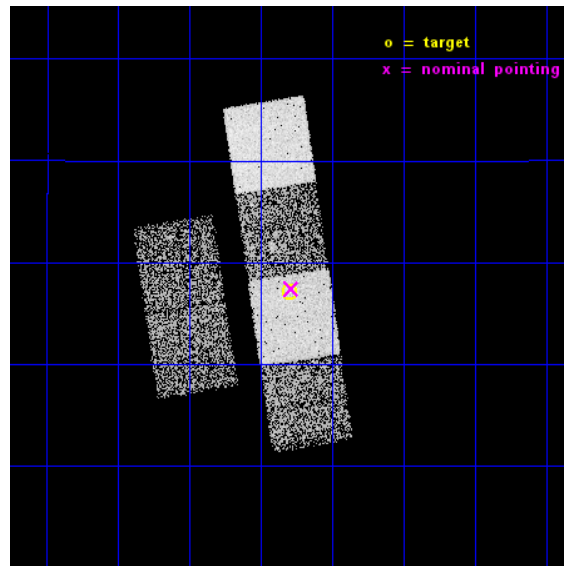
L2 Processing Date : Feb 22 2015

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

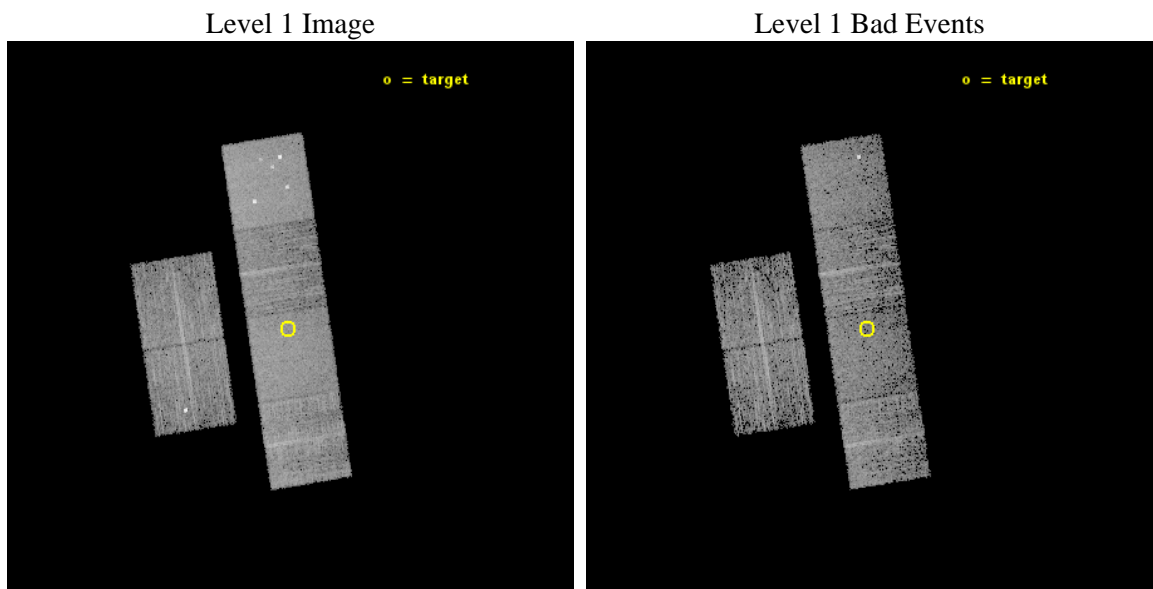
seq_num	703105	Sequence number
obs_id	17101	Observation id
title	Probing the Physics of Quasar Outflows using Mini-LoBALs	Proposal
observer	Professor Karen Leighly	Principal investigator
object	SDSS J140447.81+053708.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.199167	Observer's specified target RA [deg]
dec_targ	5.618889	Observer's specified target Dec [deg]
ra_nom	211.19640446936	Nominal RA [deg]
dec_nom	5.6235796418843	Nominal Dec [deg]
roll_nom	81.244138948131	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6853.2357141972	Sum of GTIs [s]
livetime	6766.4559170609	Livetime [s]
ontime2	6853.2767541409	Sum of GTIs [s]
ontime3	6853.1125941277	Sum of GTIs [s]
ontime5	6853.1946741343	Sum of GTIs [s]
ontime6	6853.1536341906	Sum of GTIs [s]
ontime7	6853.2357141972	Sum of GTIs [s]
ontime8	6853.071554184	Sum of GTIs [s]
l2events	58474	Number of level 2 events



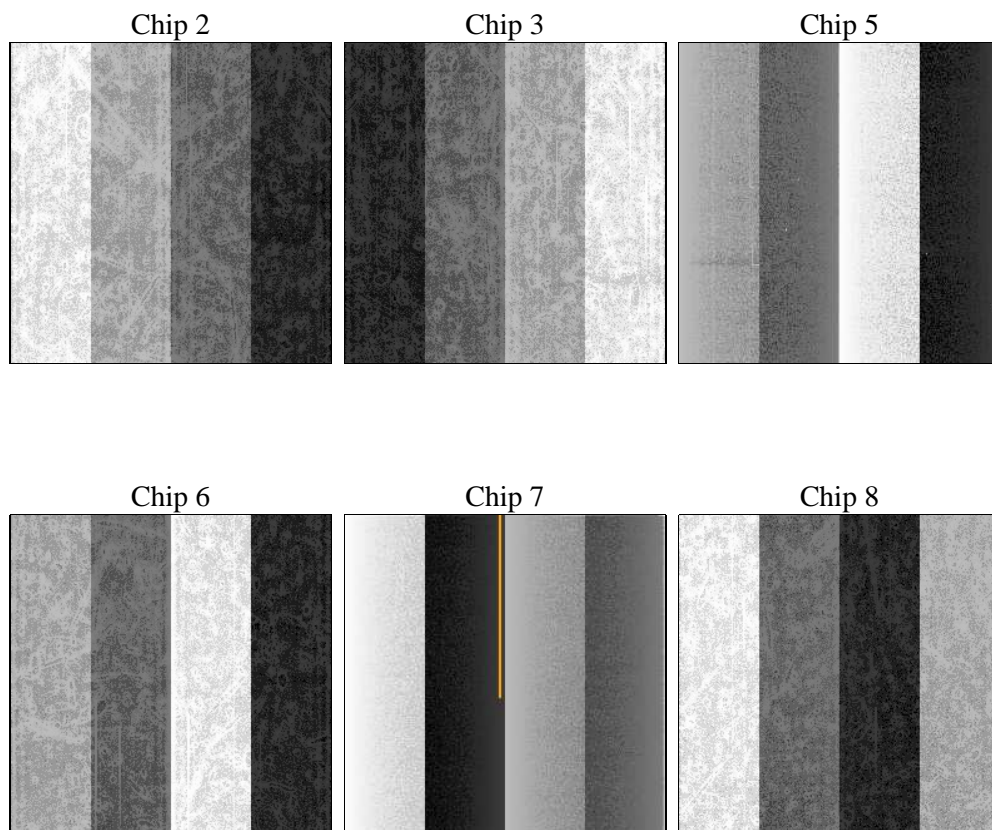
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6900.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	6853.2357141972	Sum of GTIs [s]
caldsver	4.6.6	 	ontime2	6853.2767541409	Sum of GTIs [s]
date	2015-02-22T15:44:09	Date and time of file creation	ontime3	6853.1125941277	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	6853.1946741343	Sum of GTIs [s]
			ontime6	6853.1536341906	Sum of GTIs [s]
			ontime7	6853.2357141972	Sum of GTIs [s]
			ontime8	6853.071554184	Sum of GTIs [s]
			l1events	252539	Number of level 1 events

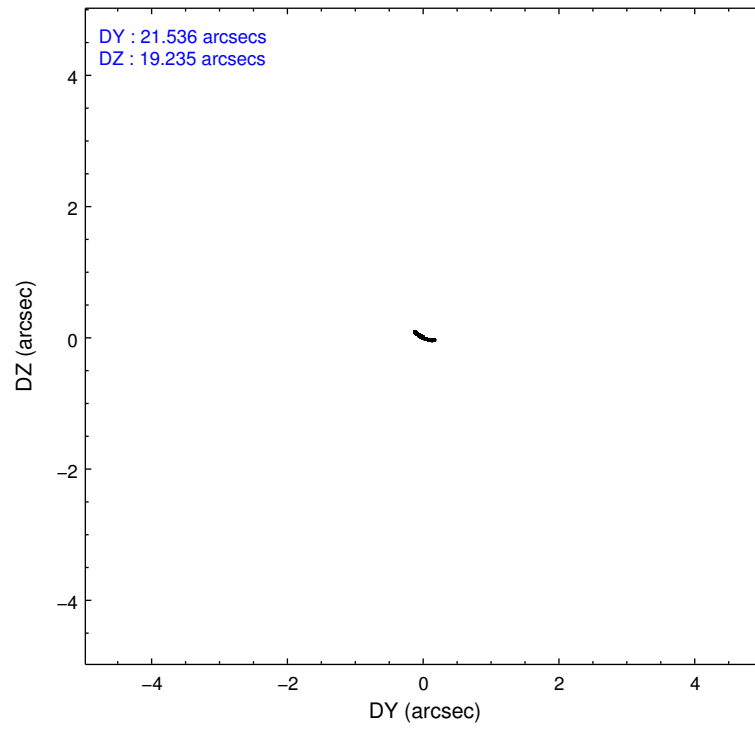
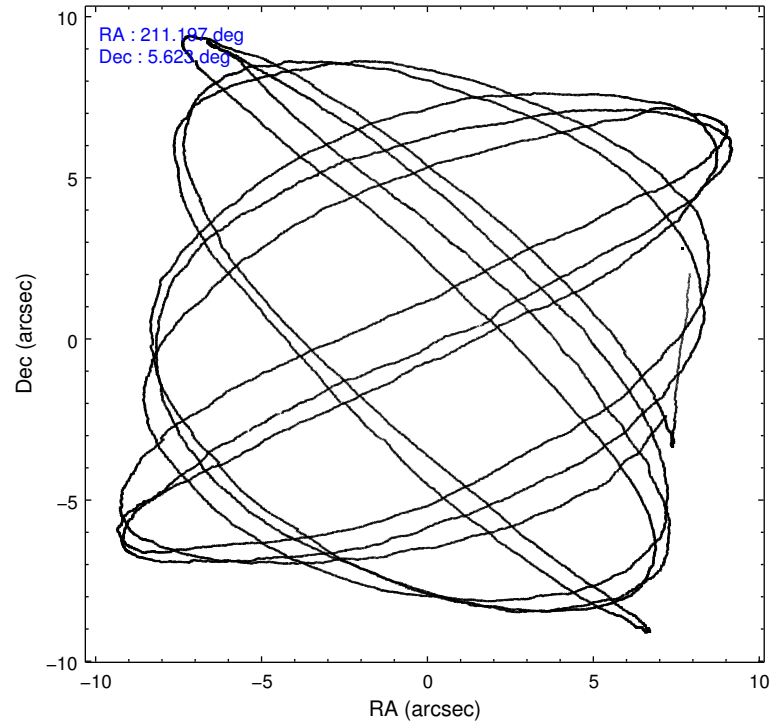
2.1.4 Events

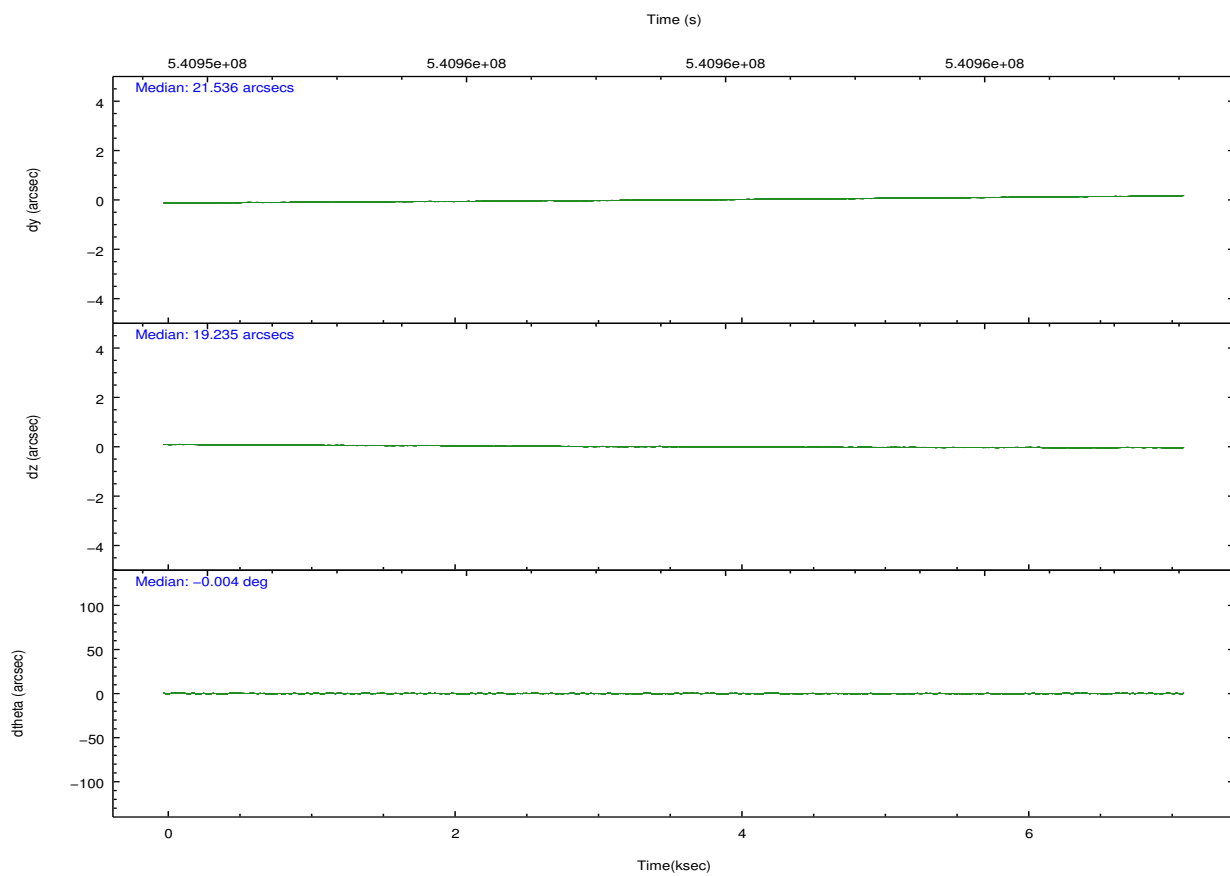
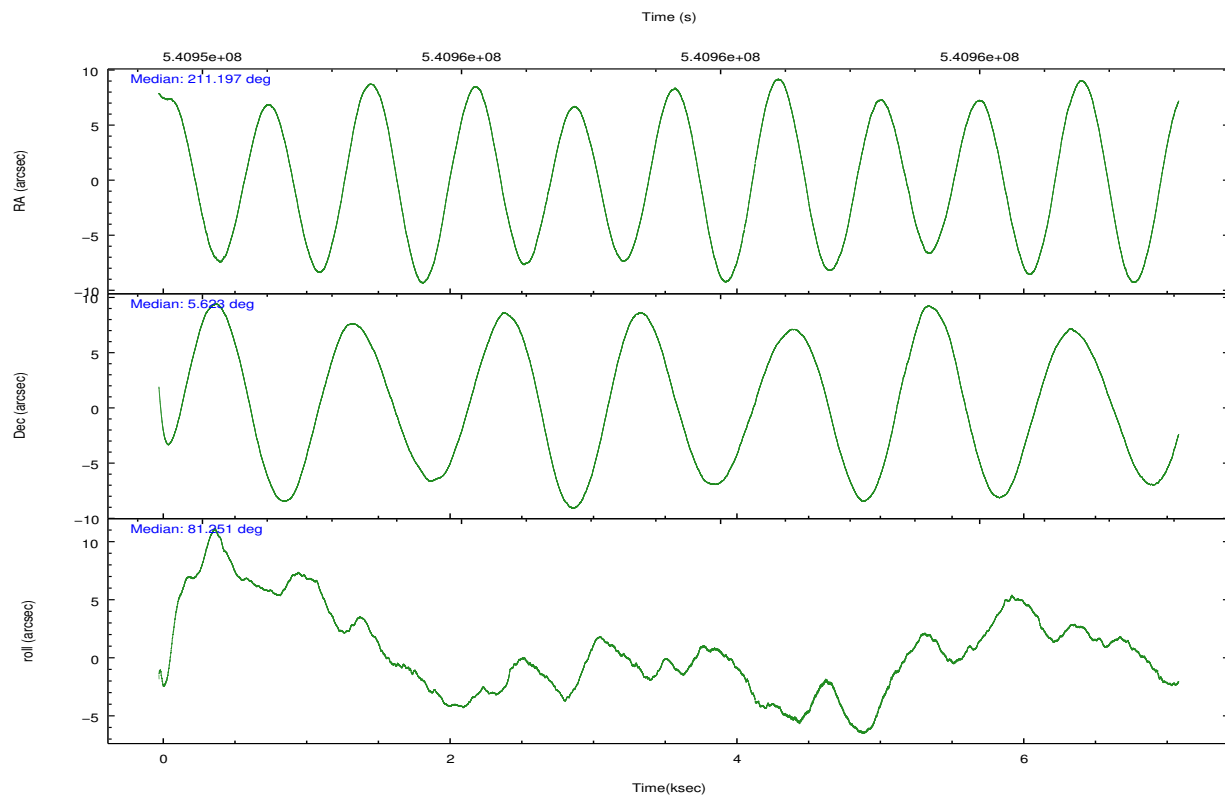
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	34135	36005	59584	33131	45445	44239	grade 0 events	1373	1271	4435	1470	1795	3102
rejected events	30260	30254	29933	28957	25720	32687		4%	3%	7%	4%	3%	7%
rejected %	88%	84%	50%	87%	56%	73%	grade 1 events	26	13	73	16	58	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	962	2926	9063	928	4090	2893
								2%	8%	15%	2%	8%	6%
							grade 3 events	396	369	856	414	1656	1221
								1%	1%	1%	1%	3%	2%
							grade 4 events	394	364	823	403	1649	1094
								1%	1%	1%	1%	3%	2%
							grade 5 events	1532	1762	4063	1719	4674	2477
								4%	4%	6%	5%	10%	5%
							grade 6 events	753	827	14511	960	10546	3245
								2%	2%	24%	2%	23%	7%
							grade 7 events	28699	28473	25760	27221	20977	30179
								84%	79%	43%	82%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	211.206748	211.1964044693571	CCD I2 on	O1	Y
[deg] Pointing Dec	5.598132	5.623579641884277	CCD I3 on	O2	Y
[deg] Pointing Roll	81.086493	81.24413894813112	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	540954229.184000	540953245.45302	CCD S5 on	N	N
Observation start date	2015-02-22T01:02:42	2015-02-22T00:47:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	540961129.184000	540961876.466	On-chip summing requested	N	N
Observation end date	2015-02-22T02:57:42	2015-02-22T03:11:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



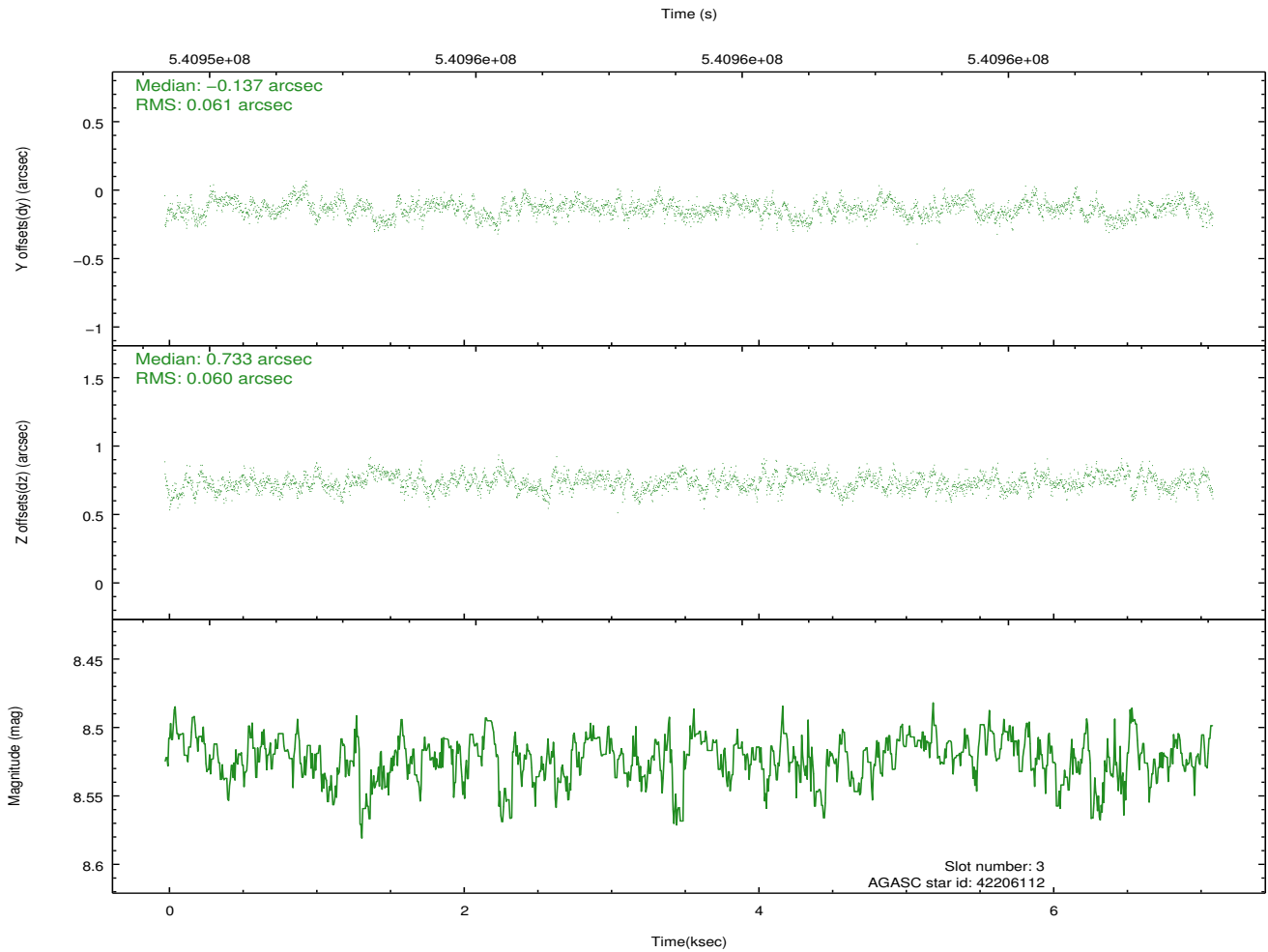
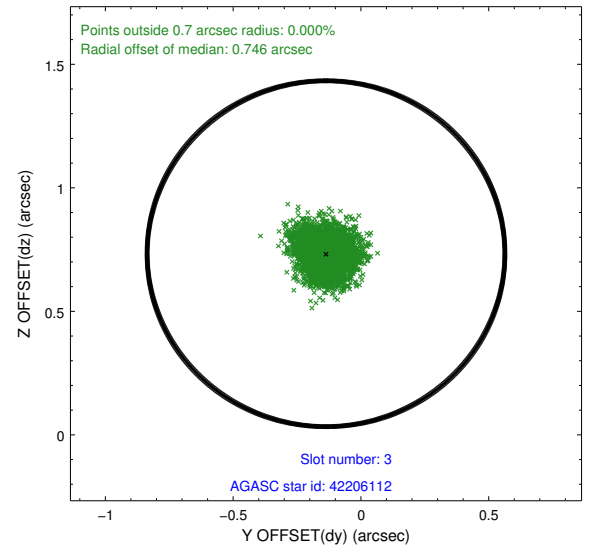
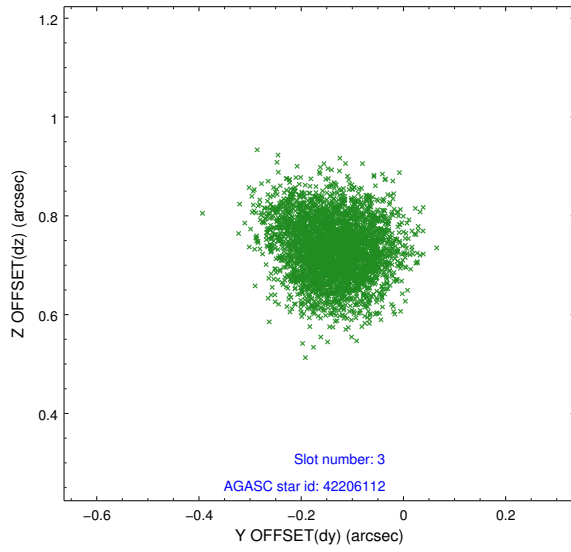


Slot Statistics

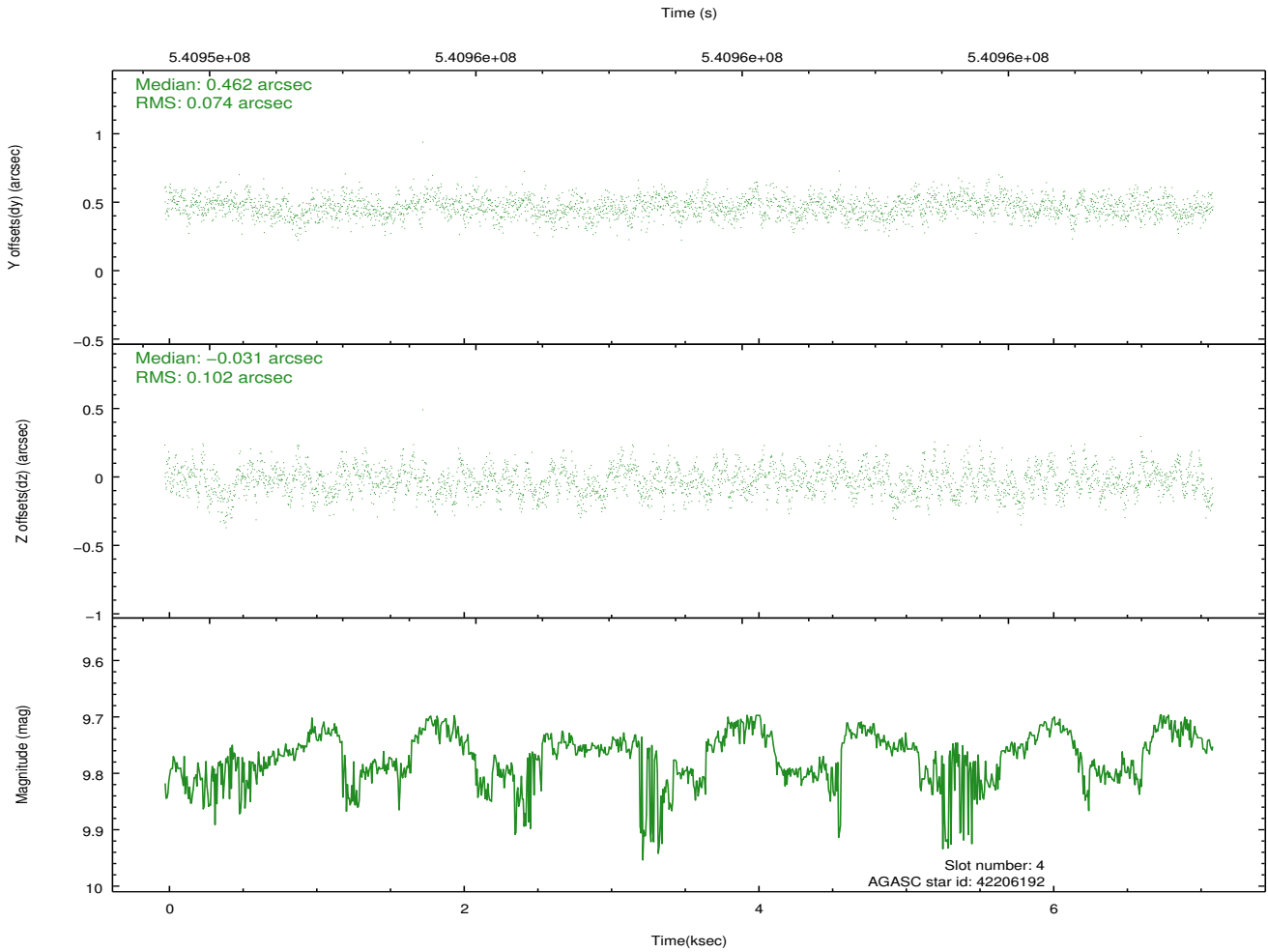
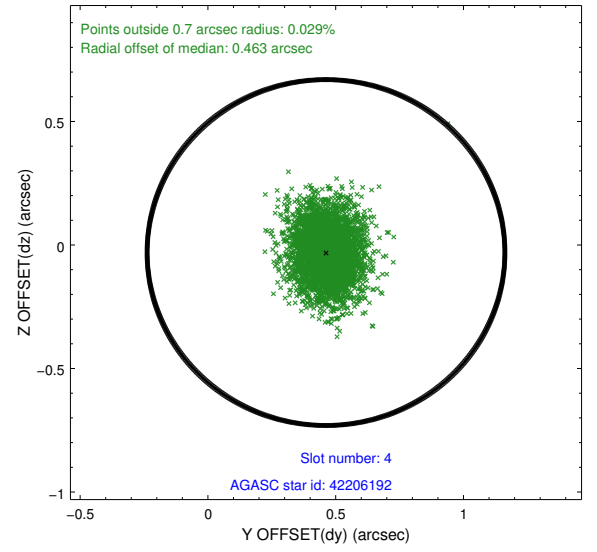
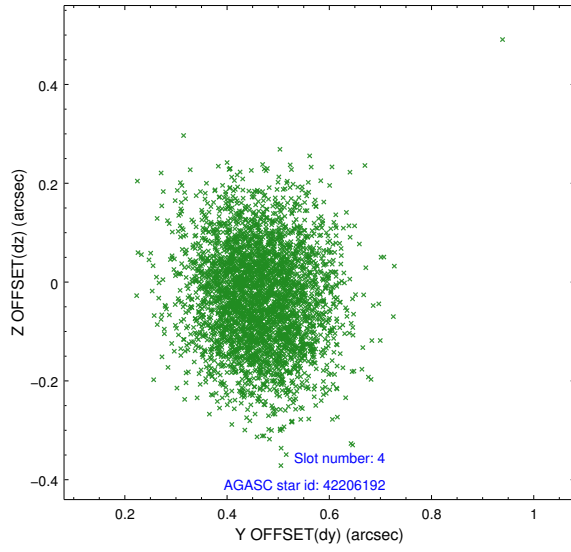
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	1735	-0.153	-0.076	0.008	0.014	0.000000	0.000000	-774.84	-1740.81
1	FID		ACIS-S-4	7.12	1735	0.350	0.094	0.006	0.010	0.000000	0.000000	2138.56	167.01
2	FID		ACIS-S-5	7.13	1735	-0.228	-0.009	0.009	0.015	0.000000	0.000000	-1826.73	161.48
3	GUIDE	used	42206112	8.52	3468	-0.137	0.733	0.091	0.146	211.203910	5.414294	-655.00	-91.25
4	GUIDE	used	42206192	9.77	3446	0.462	-0.031	0.132	0.218	211.605276	5.103572	-1536.62	-1687.52
5	GUIDE	used	42206832	8.16	3470	-0.144	-0.103	0.089	0.139	211.264133	5.360504	-813.32	-335.80
6	GUIDE	used	42211240	8.93	3469	-0.422	-0.355	0.130	0.204	211.360322	5.964011	1386.11	-339.15
7	GUIDE	used	42213264	9.71	3466	0.241	-0.244	0.177	0.265	211.466090	5.517638	-141.00	-962.84

2.4 Star Slots

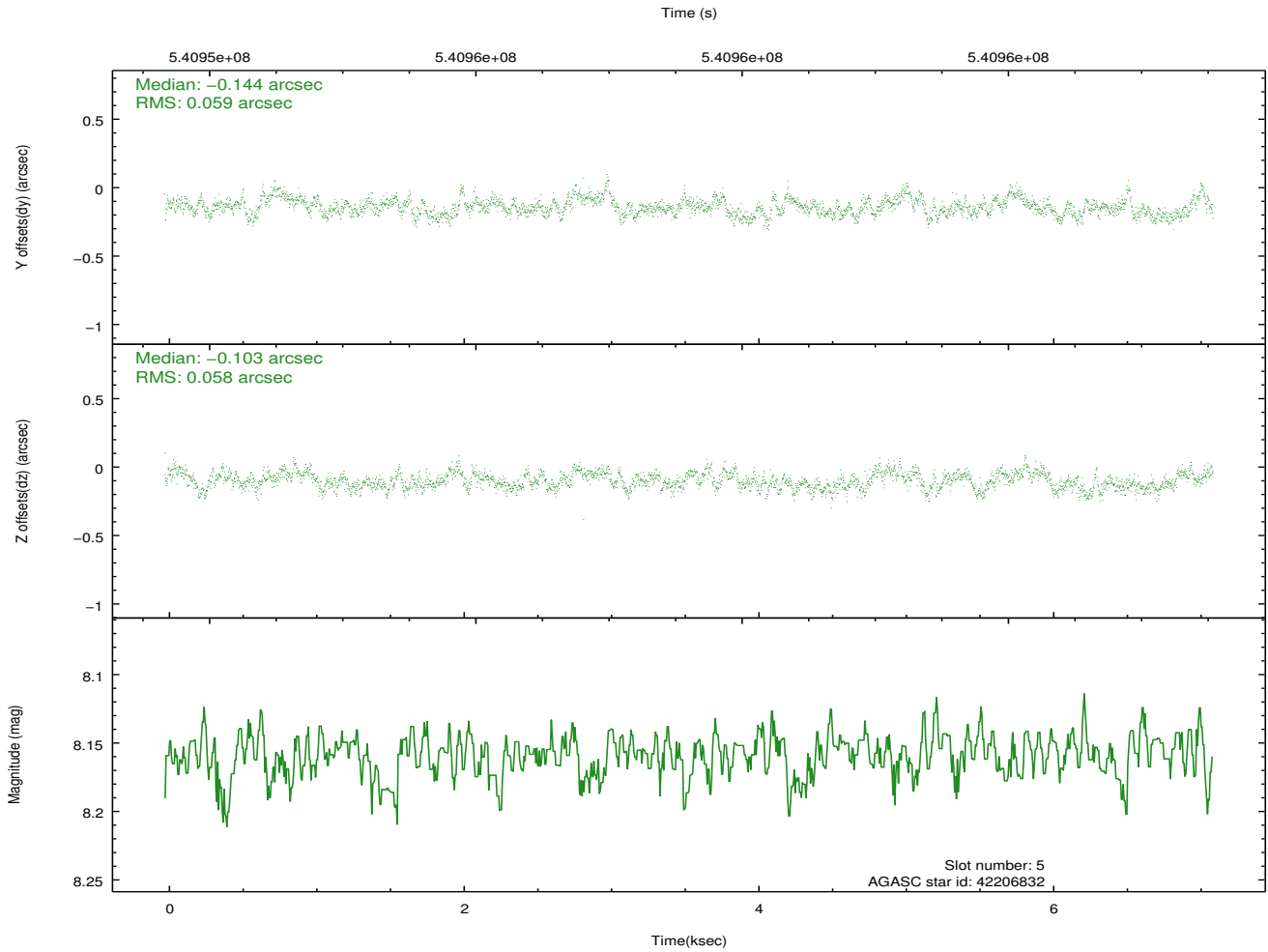
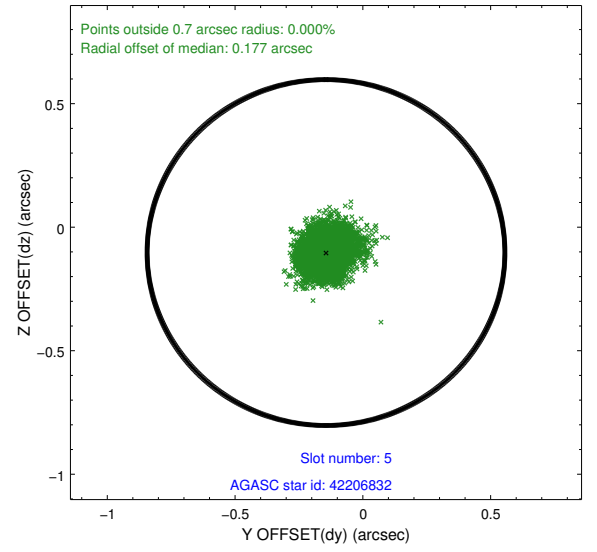
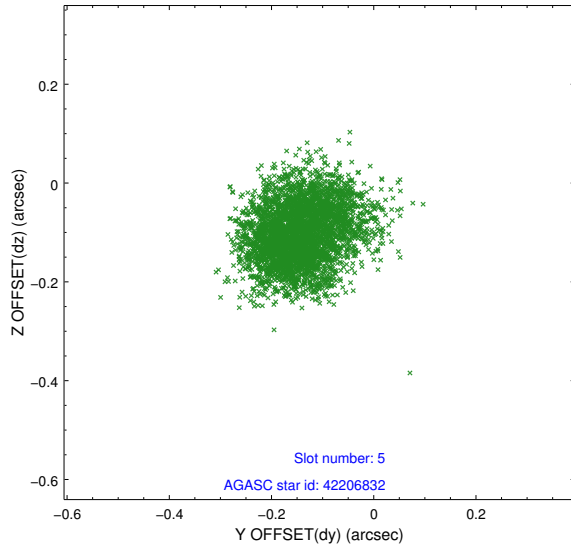
2.4.1 Slot 3



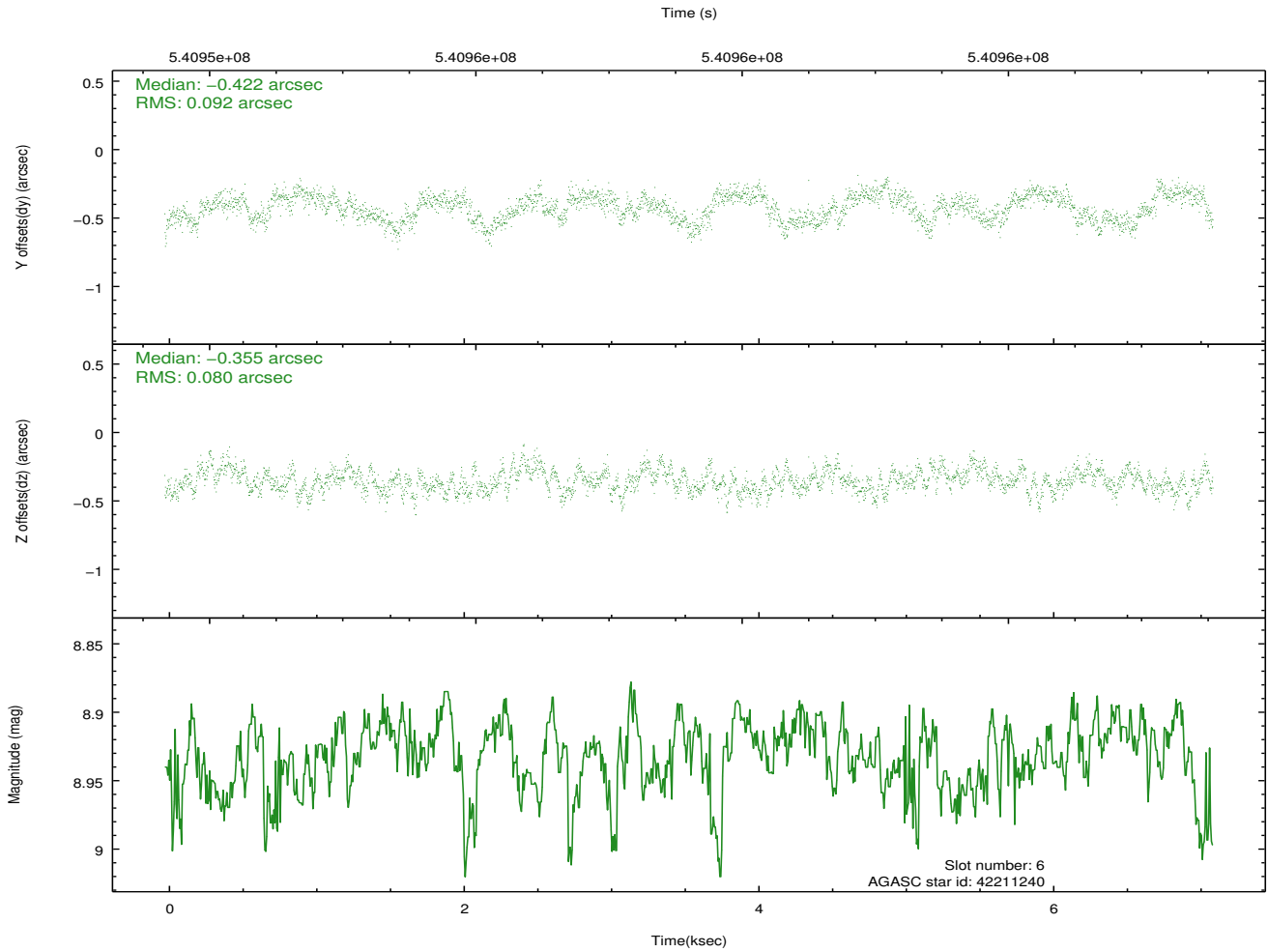
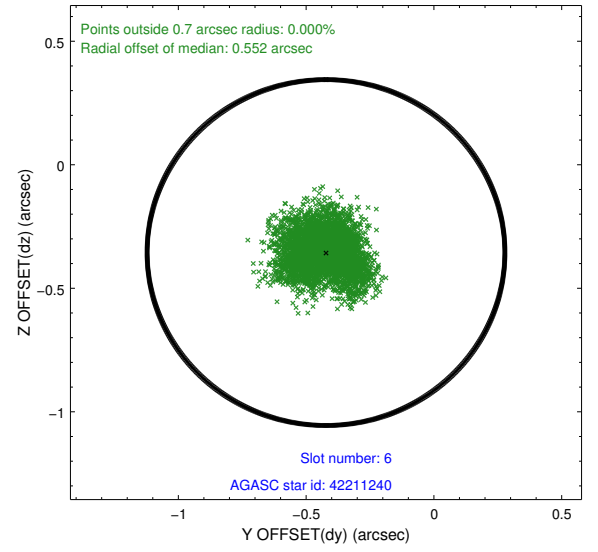
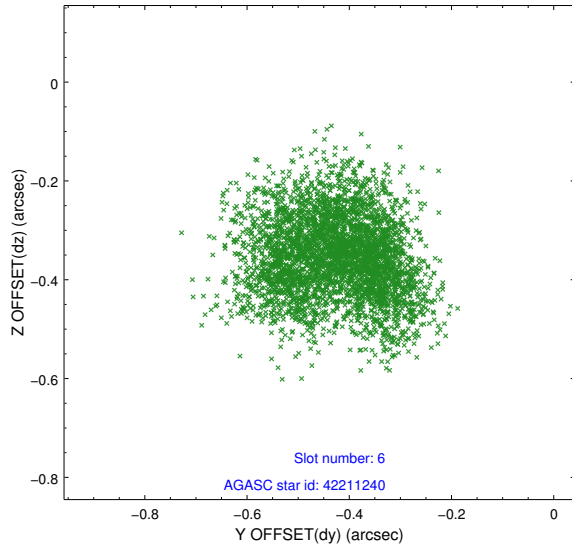
2.4.2 Slot 4



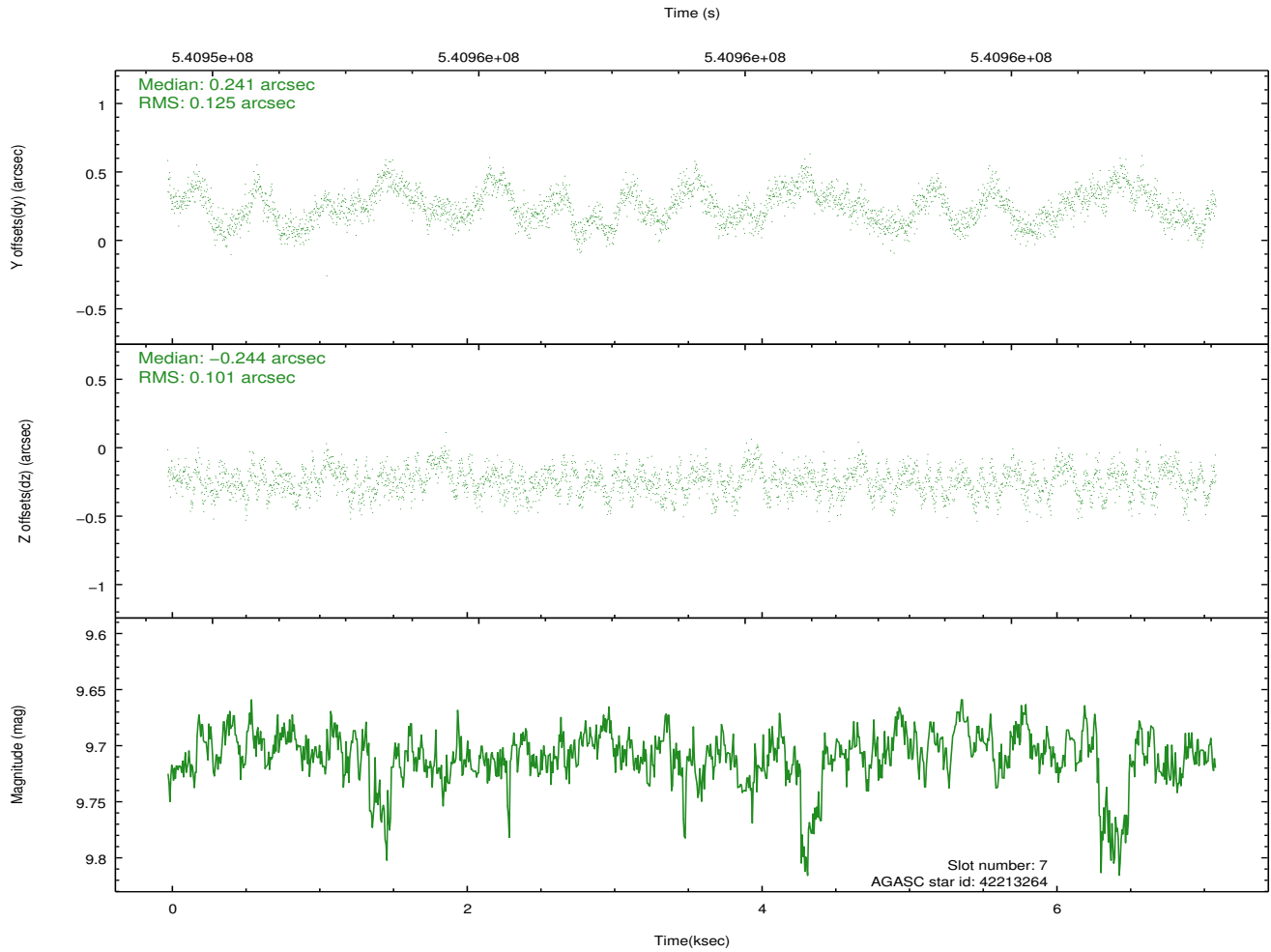
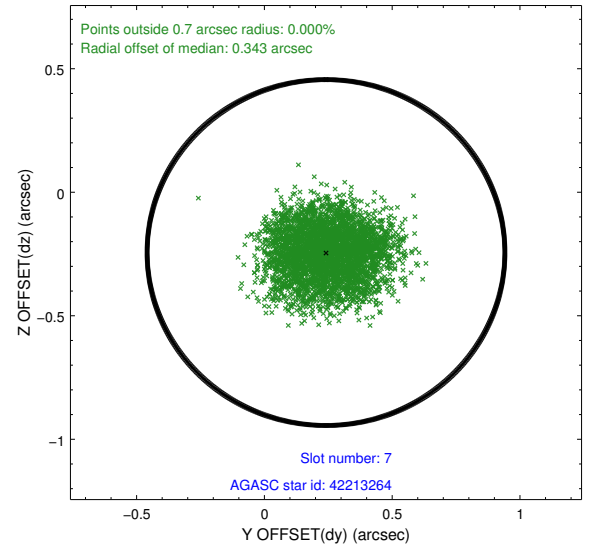
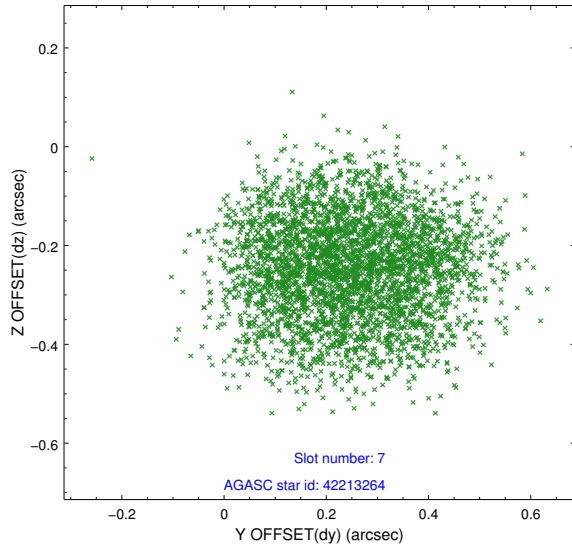
2.4.3 Slot 5



2.4.4 Slot 6

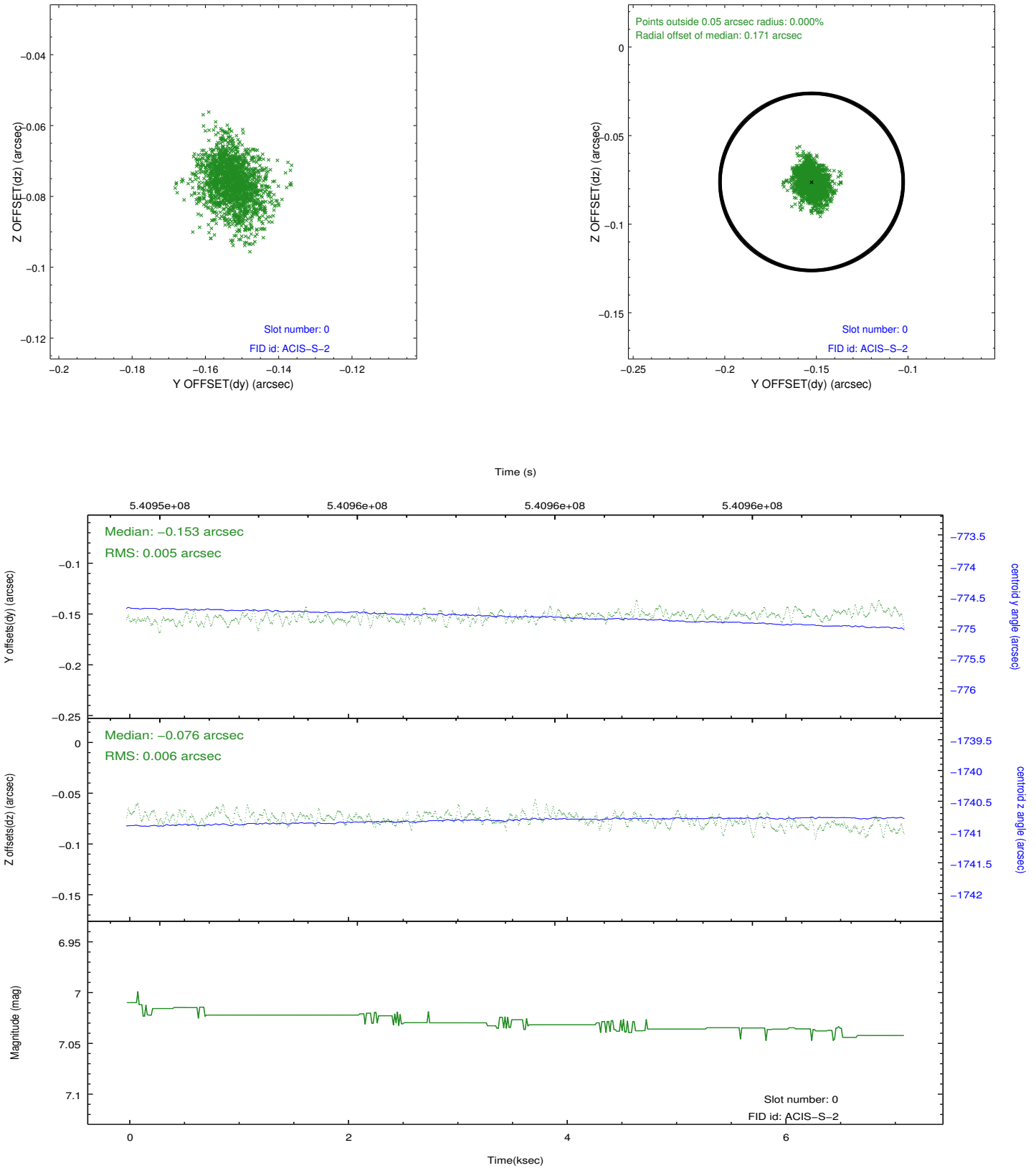


2.4.5 Slot 7

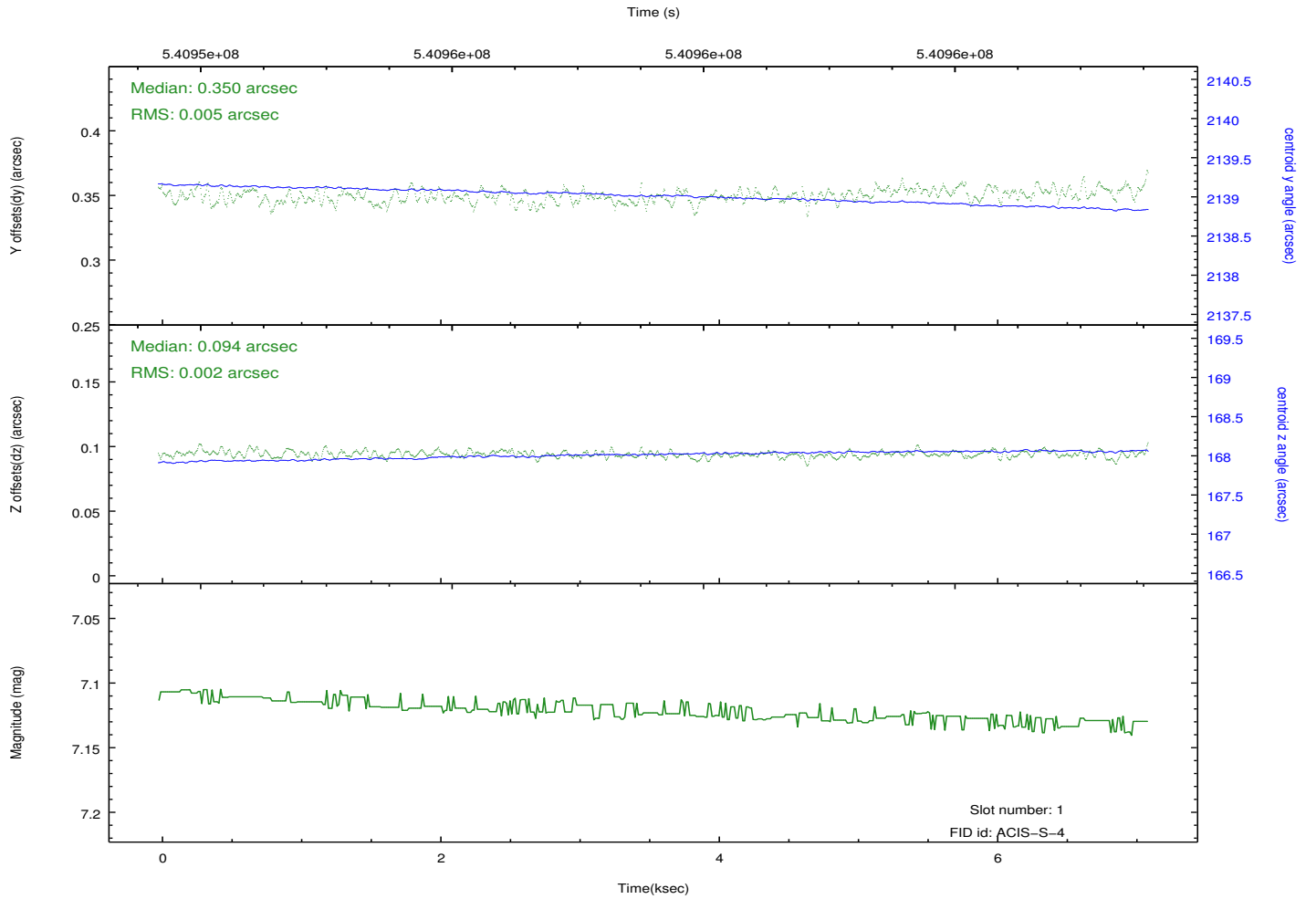
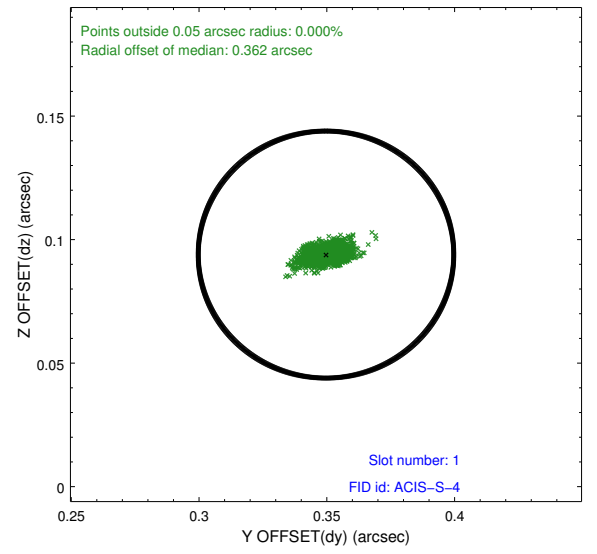
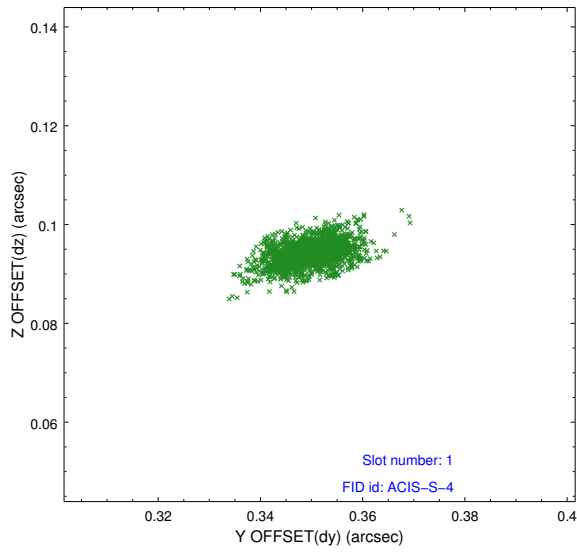


2.5 FID Slots

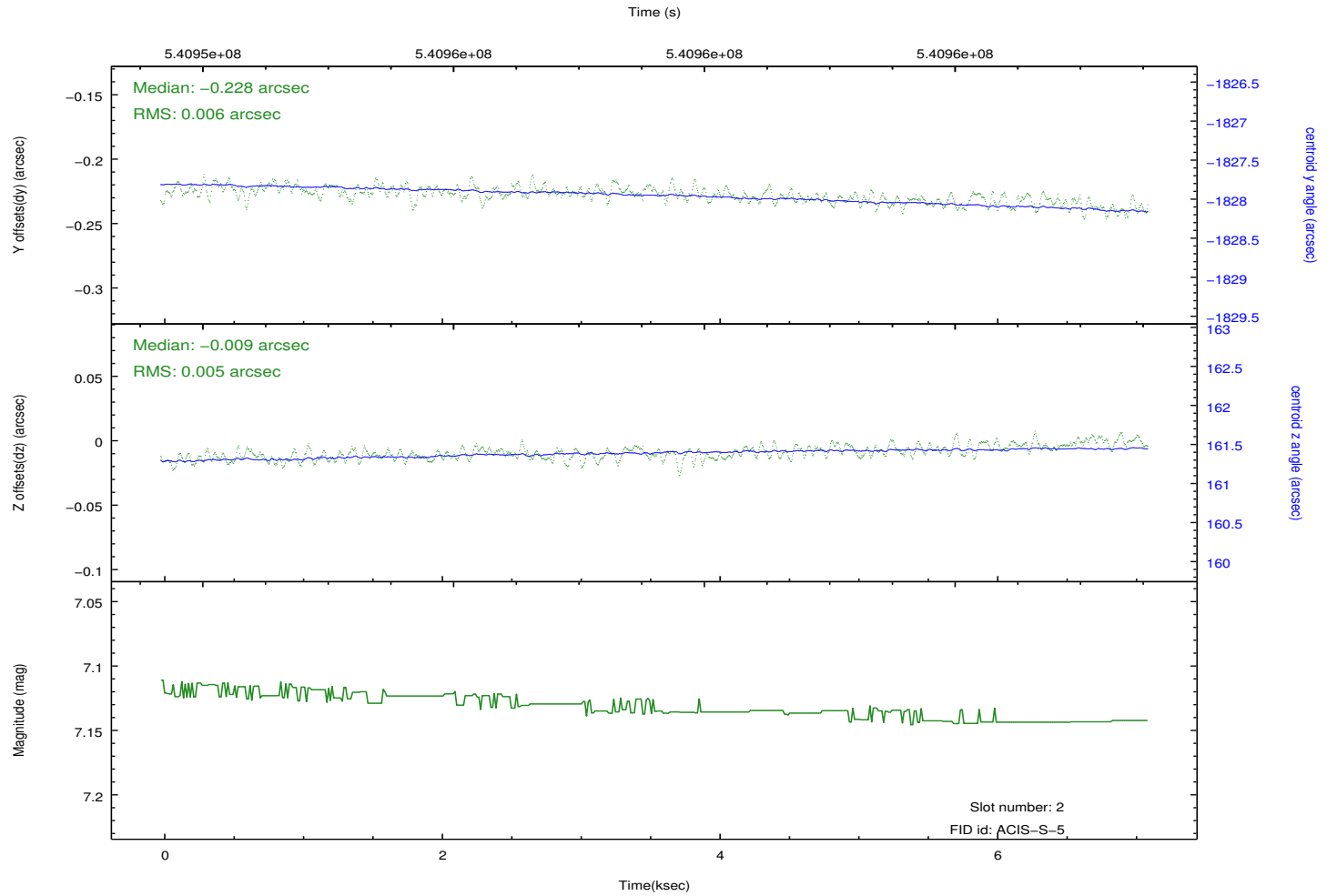
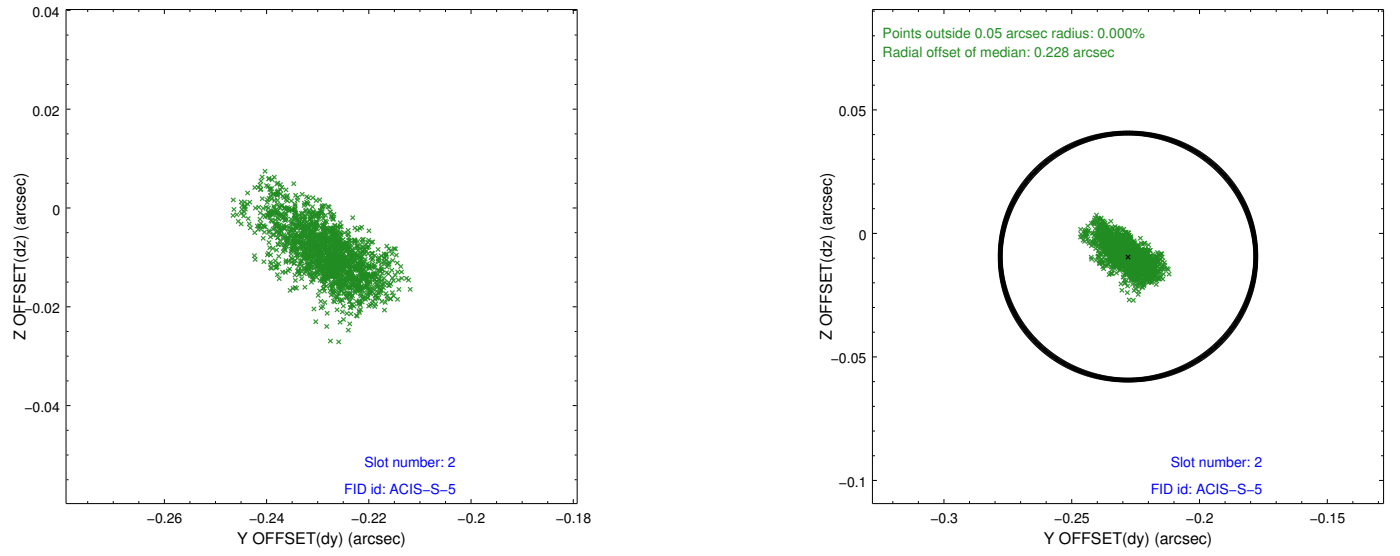
2.5.1 Slot 0



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)	2015.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8532357141972

A.2 Comments