

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10426 - L2 Version 2
Chandra X-Ray Center

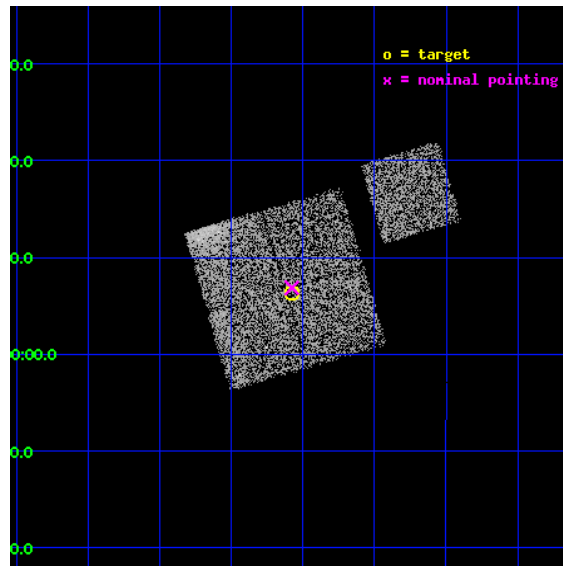
L2 Processing Date : May 31 2012

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

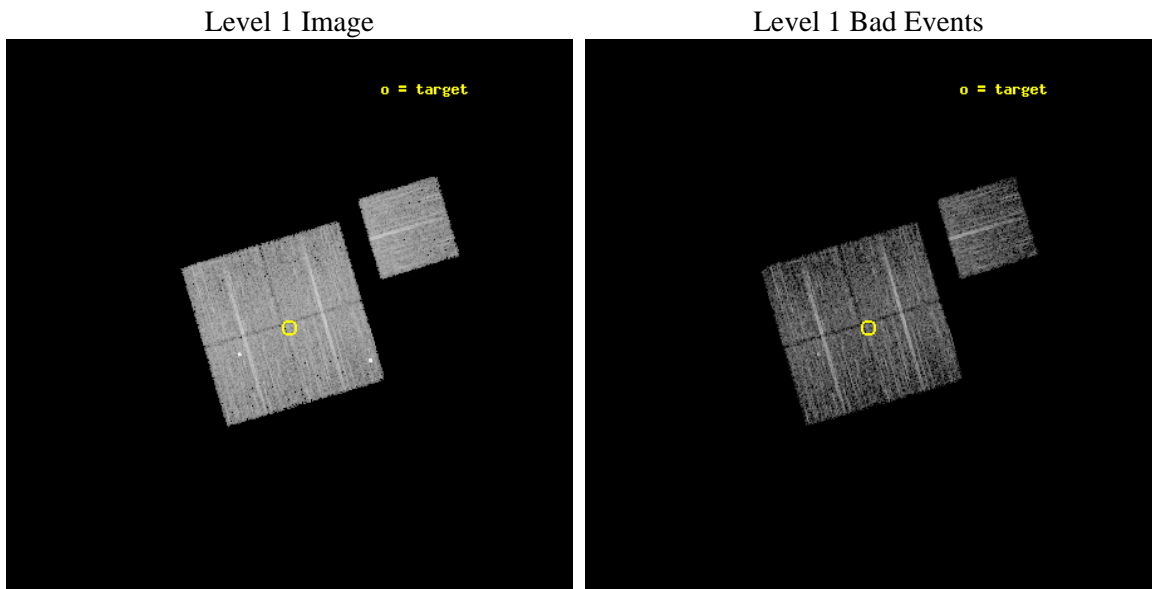
seq_num	800787	Sequence number
obs_id	10426	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.519458	Observer's specified target RA [deg]
dec_targ	-1.893878	Observer's specified target Dec [deg]
ra_nom	194.51919741096	Nominal RA [deg]
dec_nom	-1.8858456403823	Nominal Dec [deg]
roll_nom	73.6087988735	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4776.731059432	Sum of GTIs [s]
livetime	4714.3195515623	Livetime [s]
ontime0	4773.4669190645	Sum of GTIs [s]
ontime1	4776.648979485	Sum of GTIs [s]
ontime2	4770.4079688787	Sum of GTIs [s]
ontime3	4776.731059432	Sum of GTIs [s]
ontime6	4776.5668994188	Sum of GTIs [s]
l2events	19781	Number of level 2 events



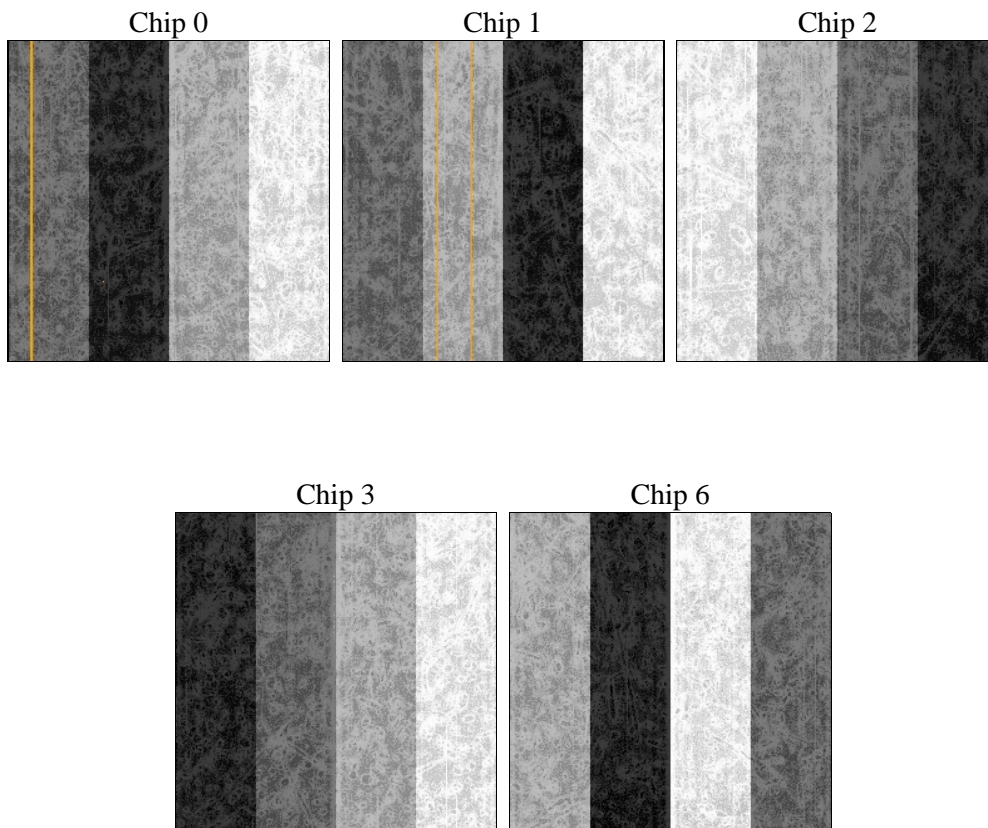
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4776.731059432	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4773.4669190645	Sum of GTIs [s]
date	2012-05-31T15:04:49	Date and time of file creation	ontime1	4776.648979485	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4770.4079688787	Sum of GTIs [s]
			ontime3	4776.731059432	Sum of GTIs [s]
			ontime6	4776.5668994188	Sum of GTIs [s]
			l1events	202992	Number of level 1 events

2.1.4 Events

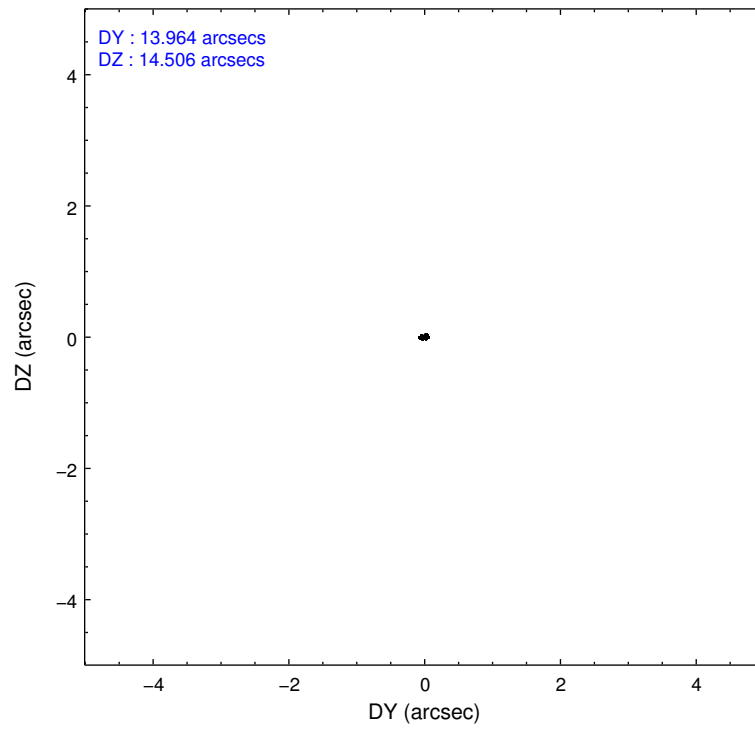
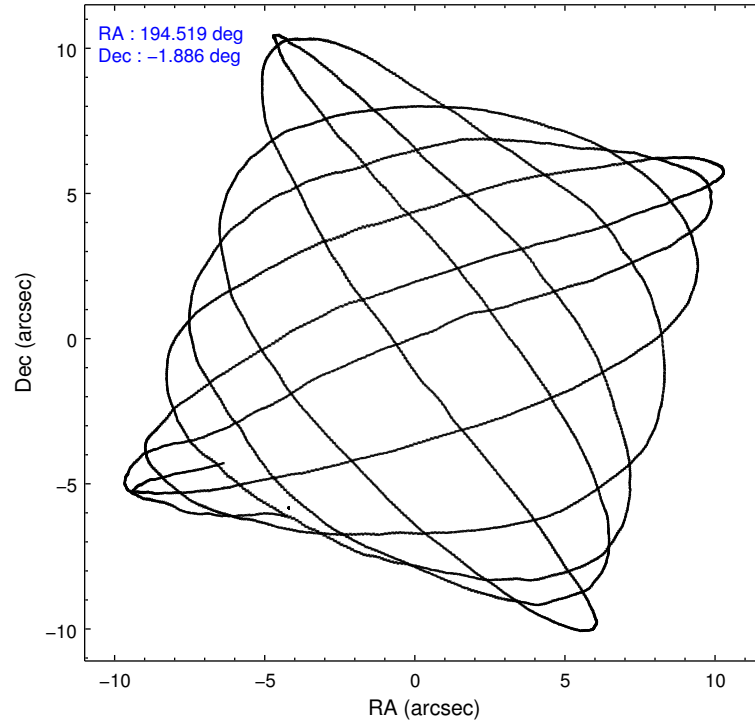
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	41412	39938	41075	42184	38383
rejected events	35096	33880	37005	36800	34150
rejected %	84%	84%	90%	87%	88%

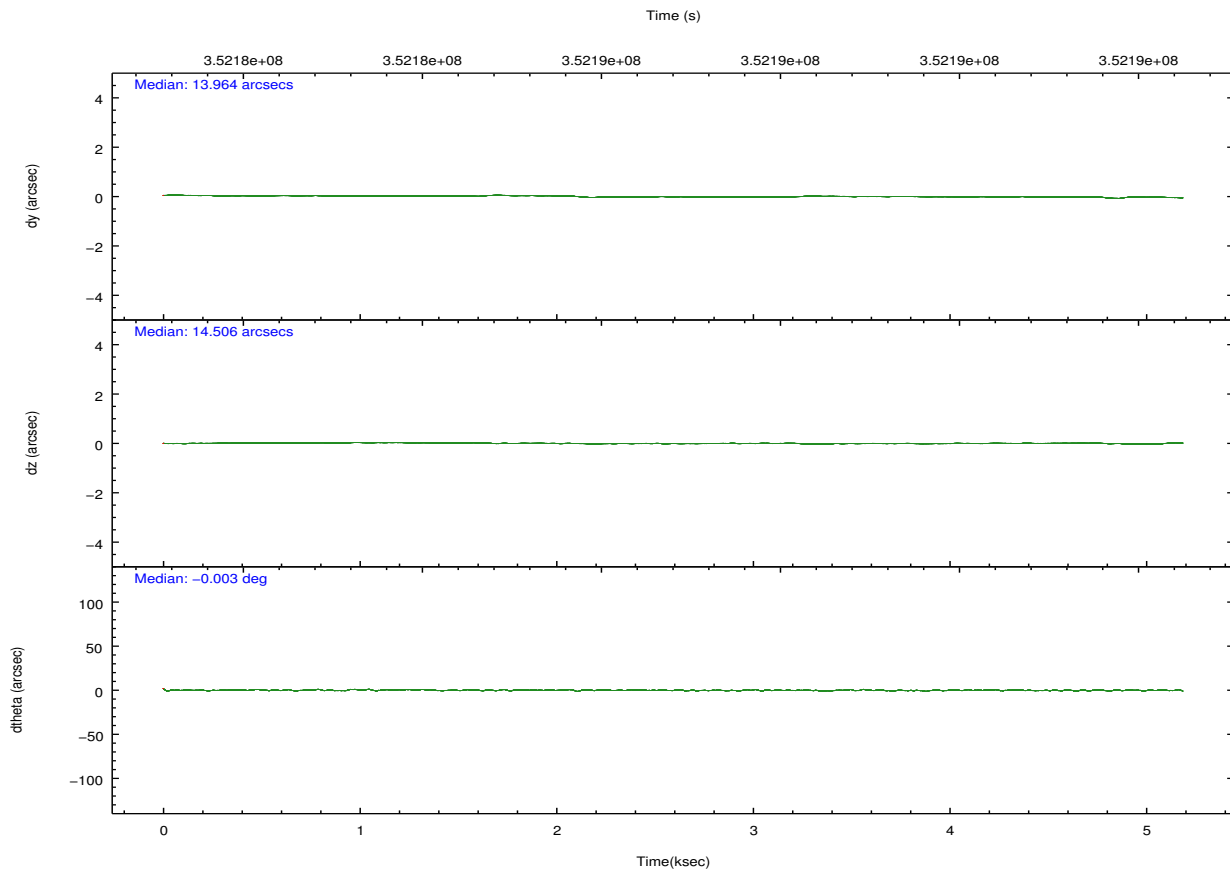
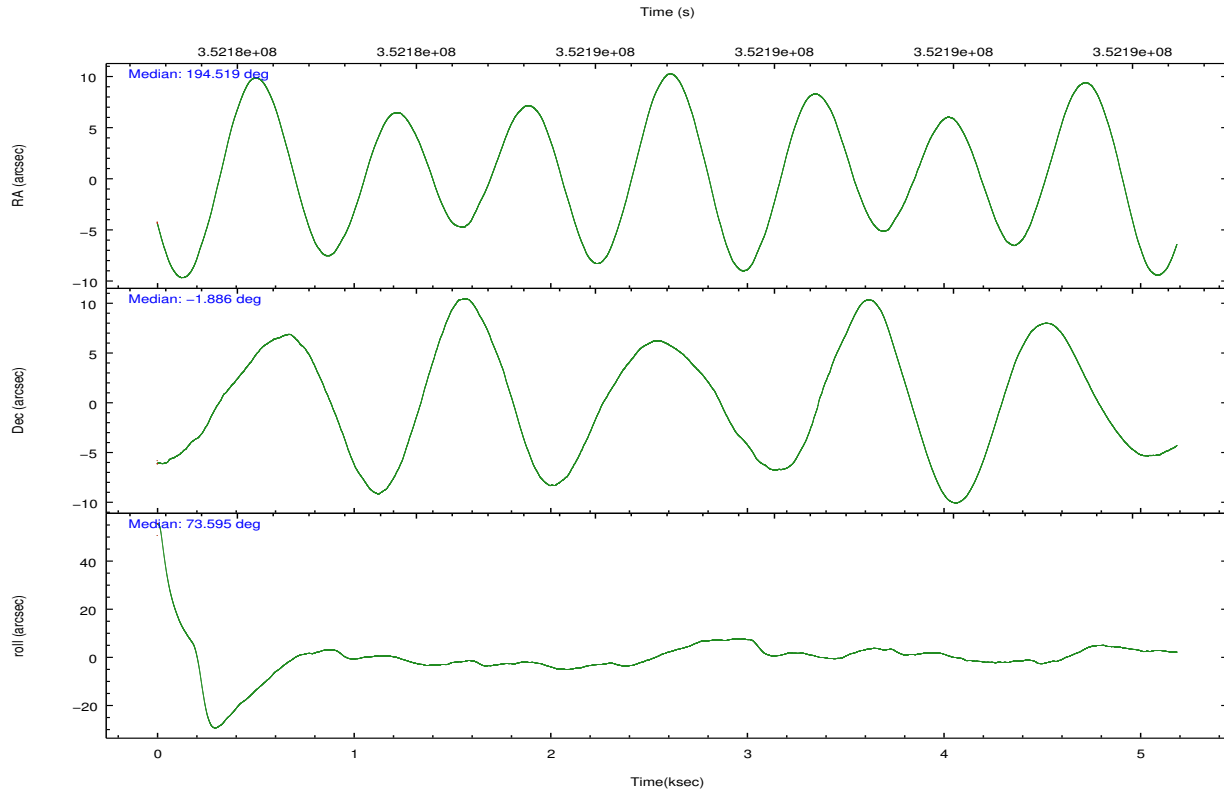
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3109	3126	1518	2469	1445
	7%	7%	3%	5%	3%
grade 1 events	31	207	18	22	19
	0%	0%	0%	0%	0%
grade 2 events	1276	1082	950	1202	940
	3%	2%	2%	2%	2%
grade 3 events	516	473	403	473	465
	1%	1%	0%	1%	1%
grade 4 events	495	419	465	460	467
	1%	1%	1%	1%	1%
grade 5 events	1455	1654	1413	1708	1660
	3%	4%	3%	4%	4%
grade 6 events	925	963	737	783	921
	2%	2%	1%	1%	2%
grade 7 events	33605	32014	35571	35067	32466
	81%	80%	86%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	194.525910	194.5191974109625	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.912501	-1.88584564038231	CCD I3 on	Y	Y
[deg] Pointing Roll	73.400216	73.60879887349999	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	352183992.184000	352183616.49679	CCD S5 on	N	N
Observation start date	2009-02-28T04:52:06	2009-02-28T04:46:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	352188992.184000	352189126.38457	On-chip summing requested	N	N
Observation end date	2009-02-28T06:15:26	2009-02-28T06:18:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



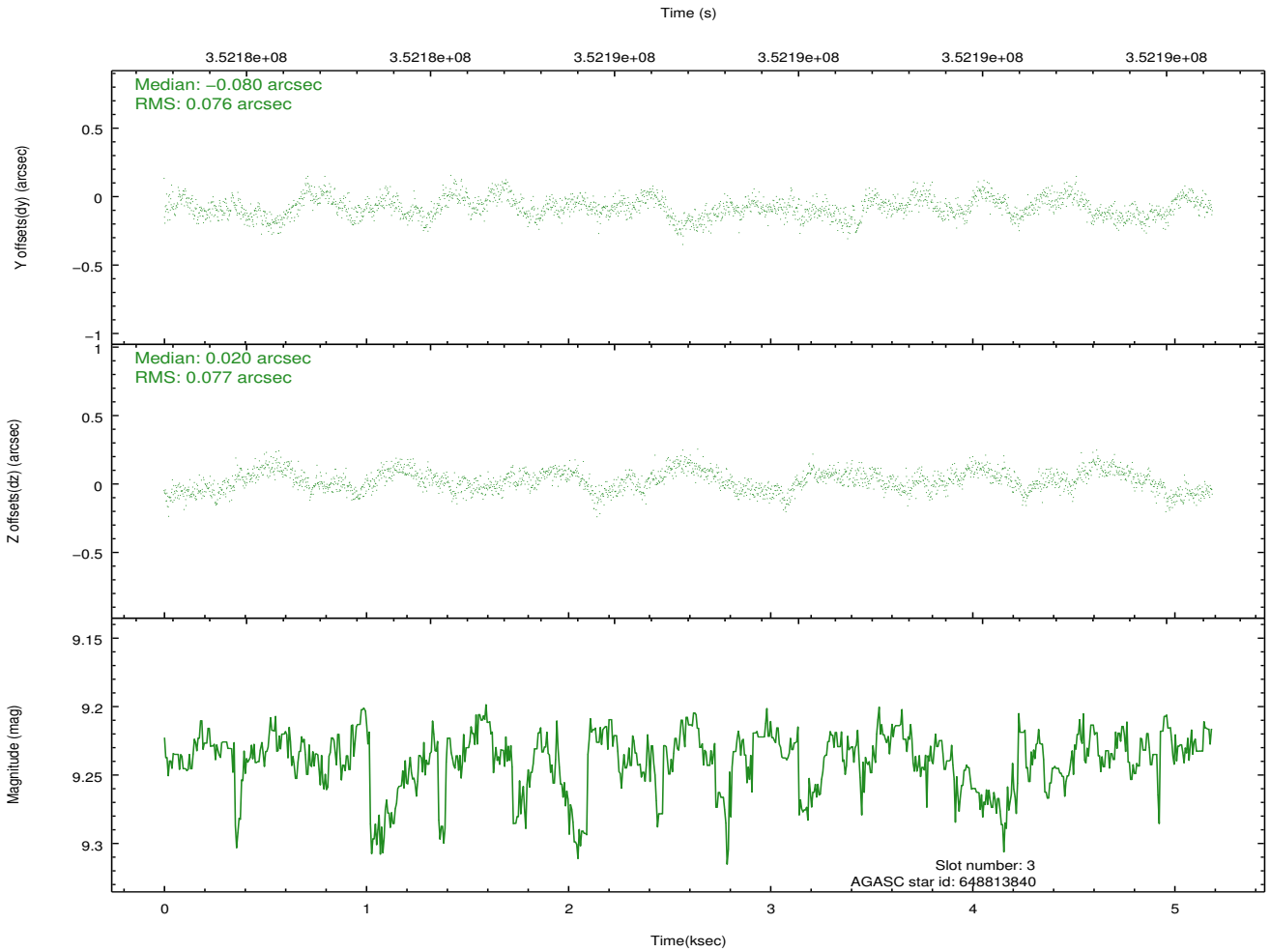
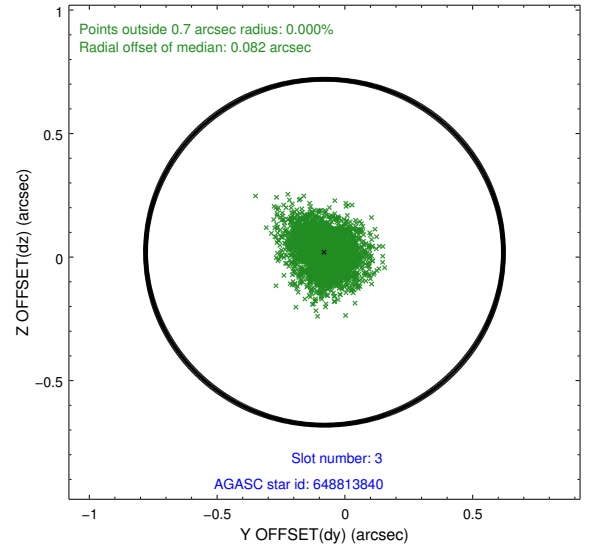
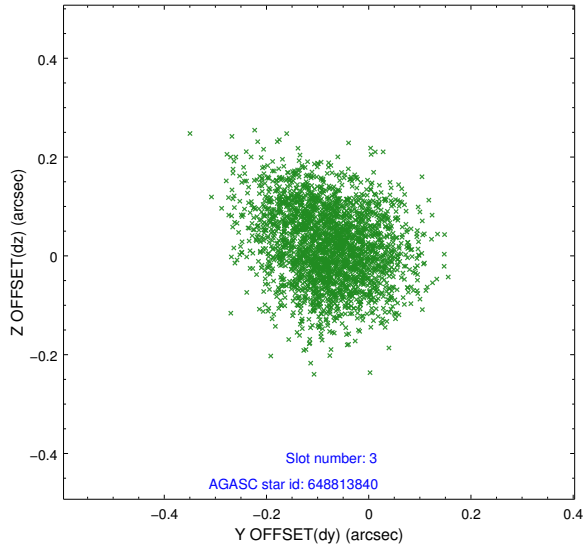


Slot Statistics

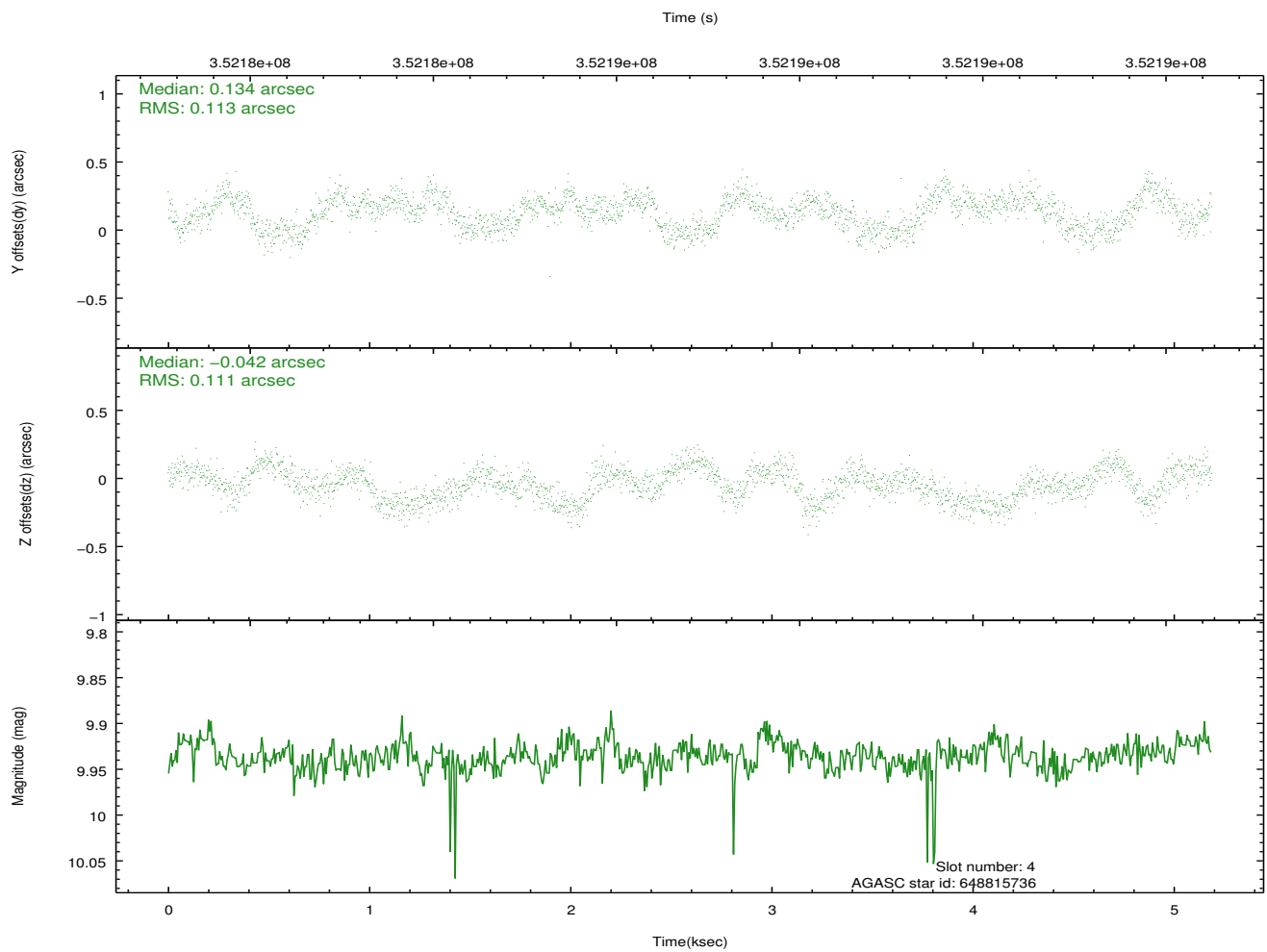
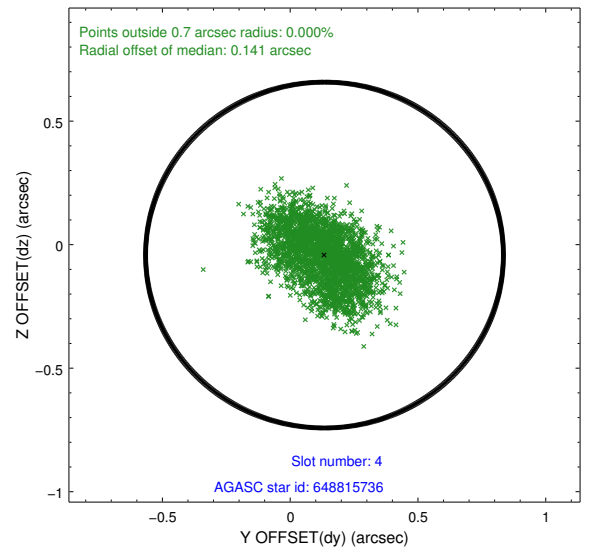
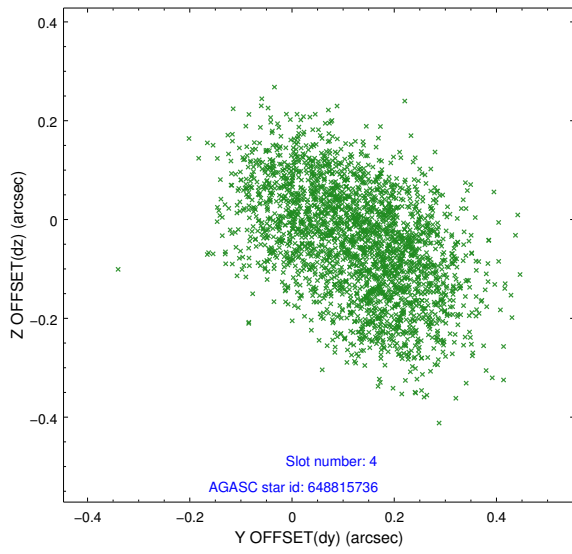
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	1266	0.035	0.010	0.006	0.012	0.000000	0.000000	925.57	-838.07
1	FID	ACIS-I-5	7.10	1266	-0.223	0.041	0.006	0.011	0.000000	0.000000	-1822.18	1058.82
2	FID	ACIS-I-6	7.10	1266	0.096	0.020	0.007	0.011	0.000000	0.000000	389.86	1704.66
3	GUIDE	648813840	9.24	2527	-0.080	0.020	0.117	0.184	194.717621	-1.945504	83.38	-695.48
4	GUIDE	648815736	9.94	2527	0.134	-0.042	0.173	0.267	194.100949	-2.130858	-1189.77	1239.88
5	GUIDE	648815800	9.55	2528	0.130	-0.265	0.134	0.212	194.475560	-2.052849	-535.35	29.54
6	GUIDE	649729936	10.36	2487	-0.153	0.255	0.270	0.524	195.094130	-1.688821	1356.04	-1728.37
7	GUIDE	649732632	9.77	2522	-0.049	0.051	0.130	0.219	195.023958	-2.038250	78.66	-1848.27

2.4 Star Slots

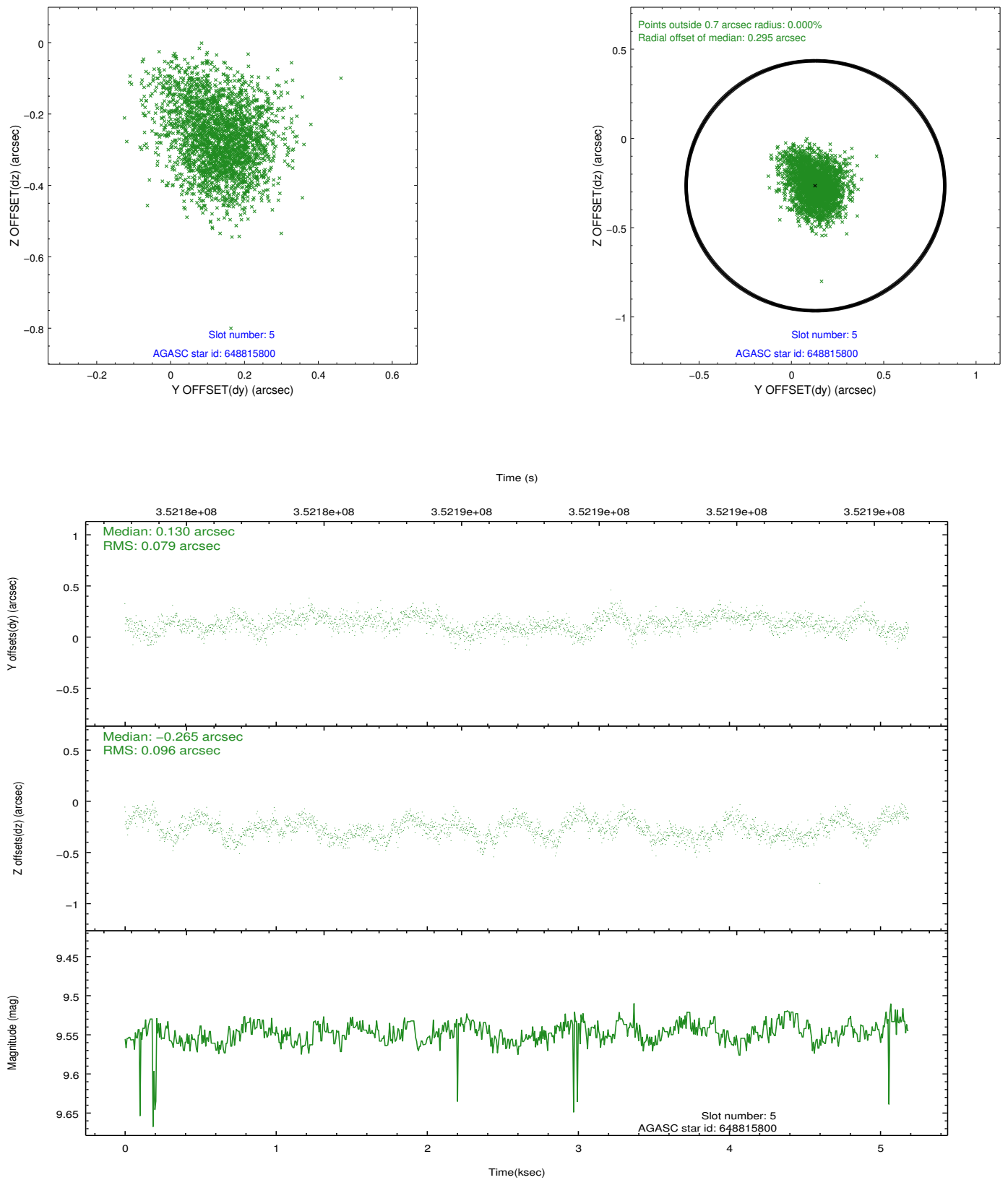
2.4.1 Slot 3



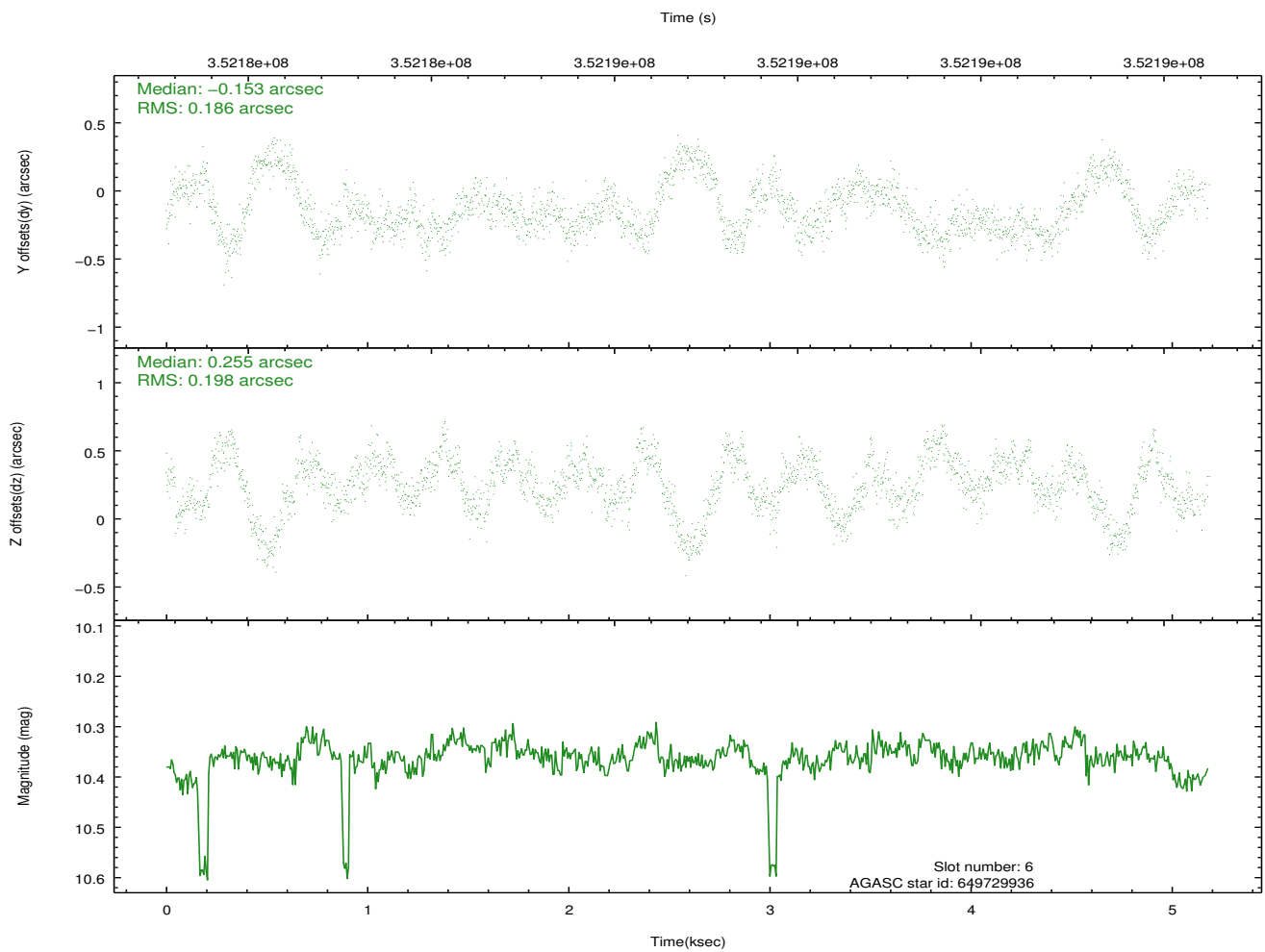
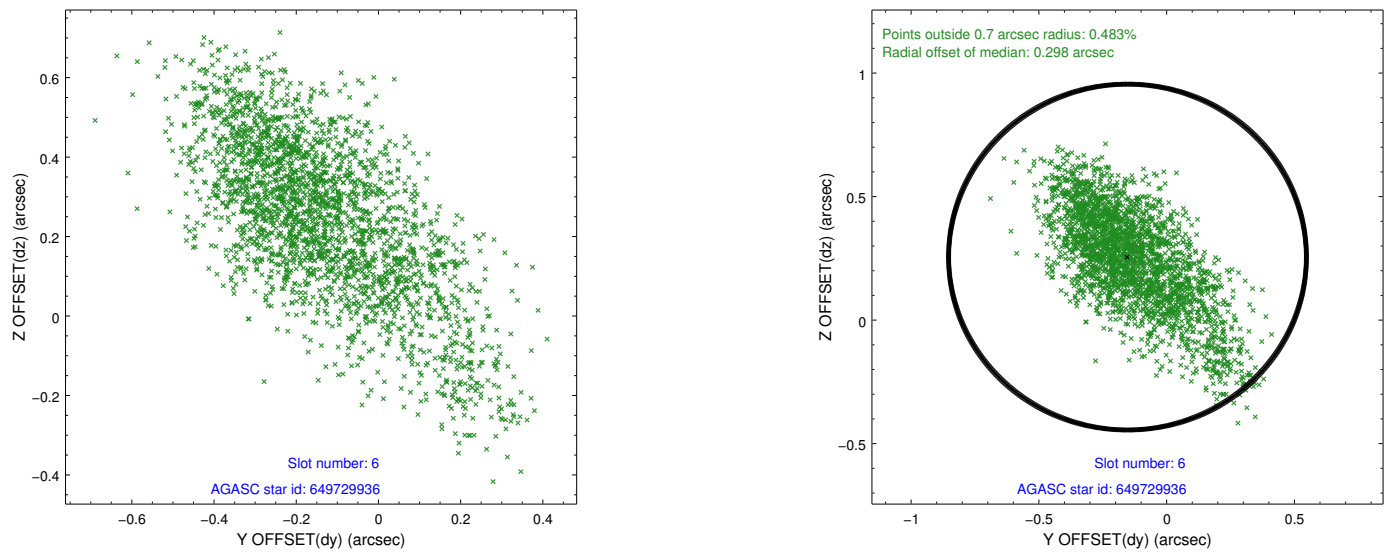
2.4.2 Slot 4



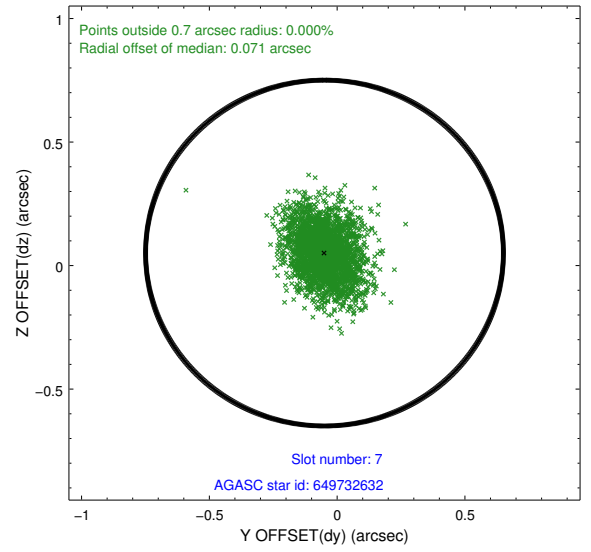
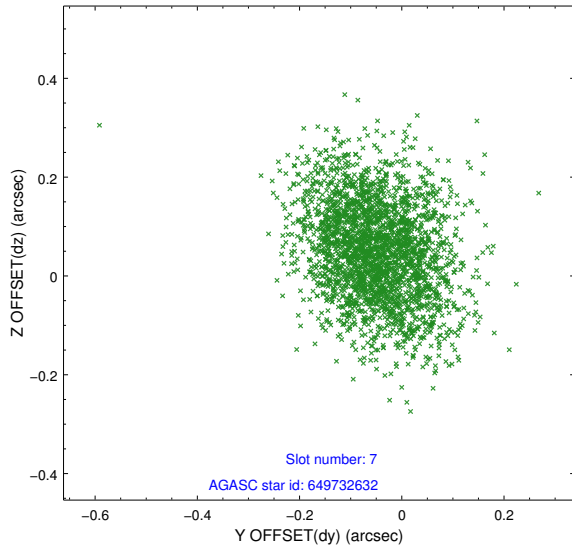
2.4.3 Slot 5



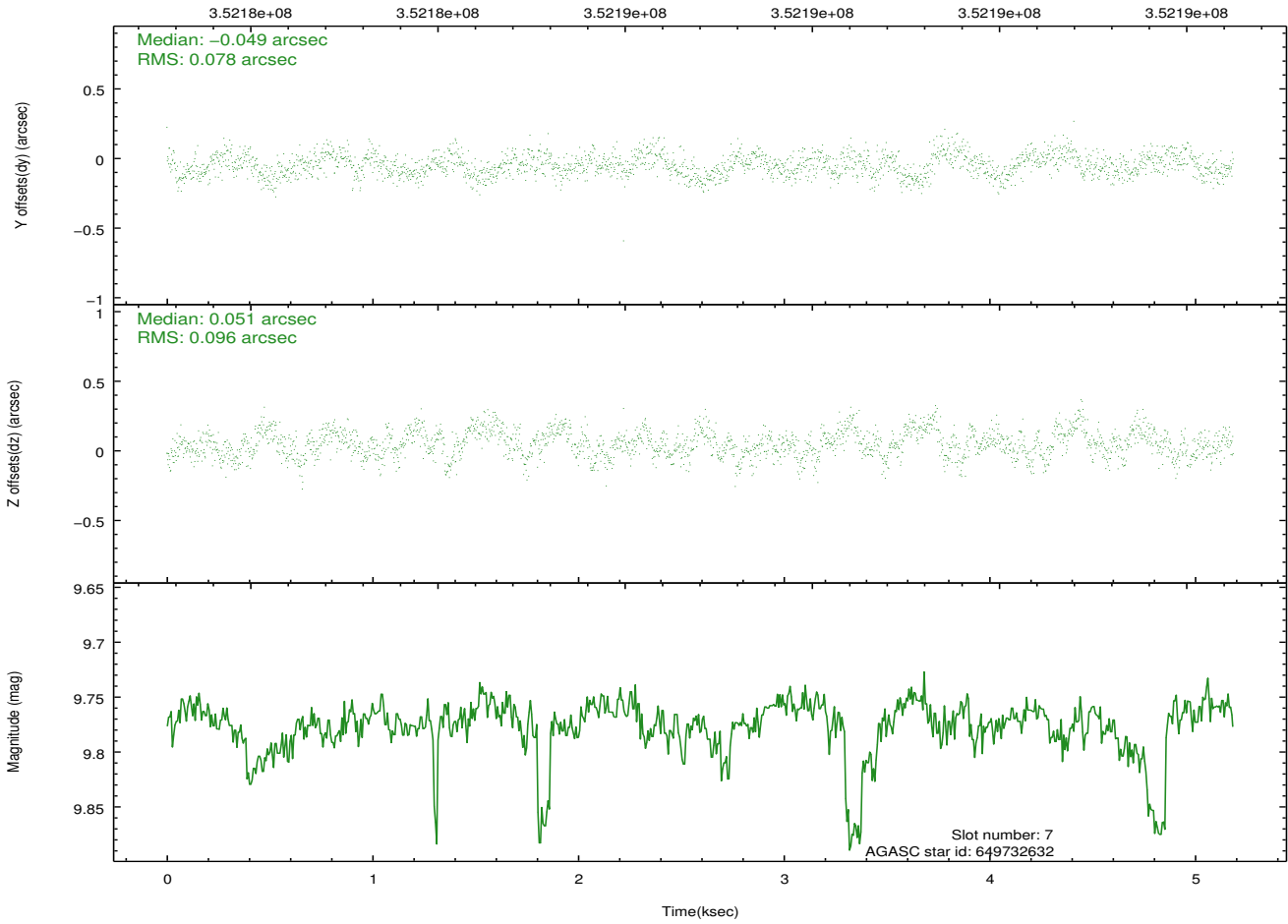
2.4.4 Slot 6



2.4.5 Slot 7

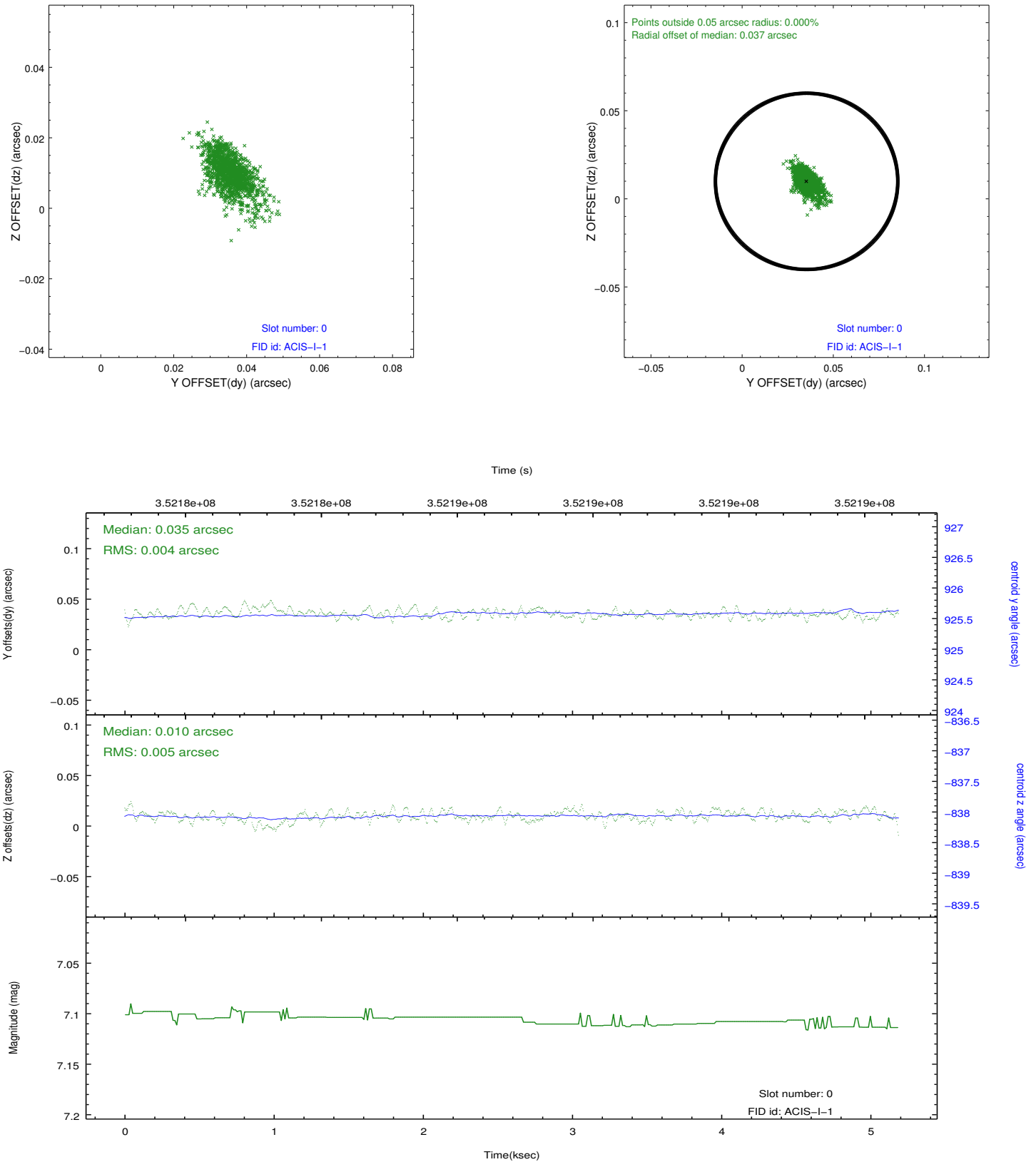


Time (s)

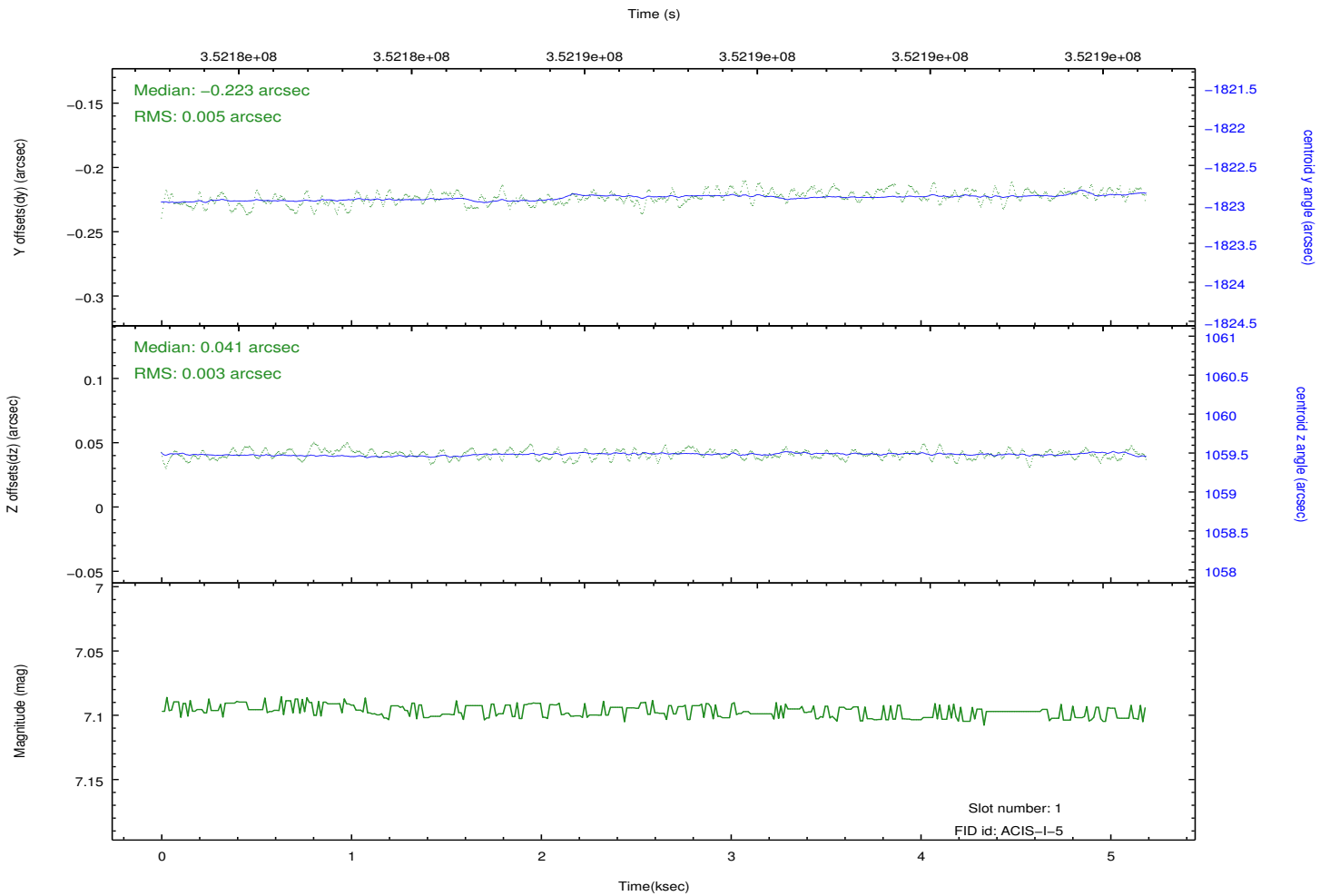
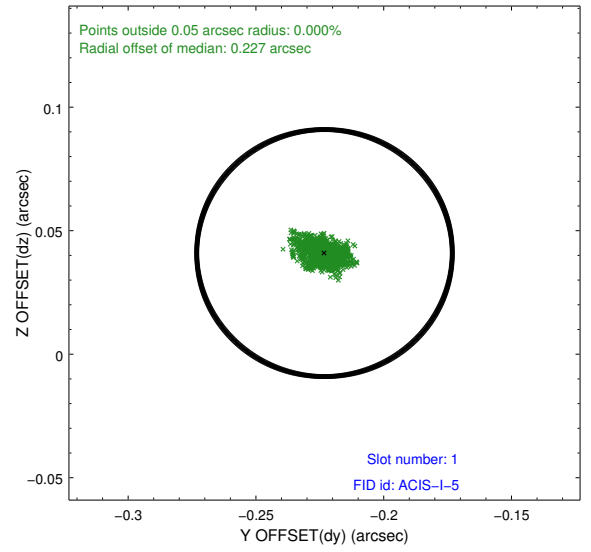
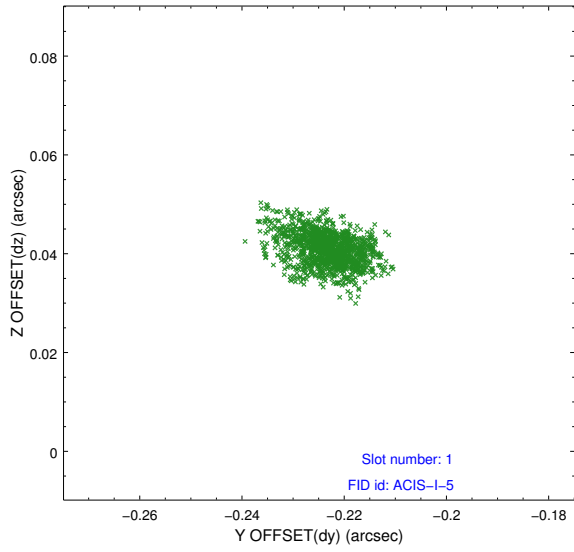


2.5 FID Slots

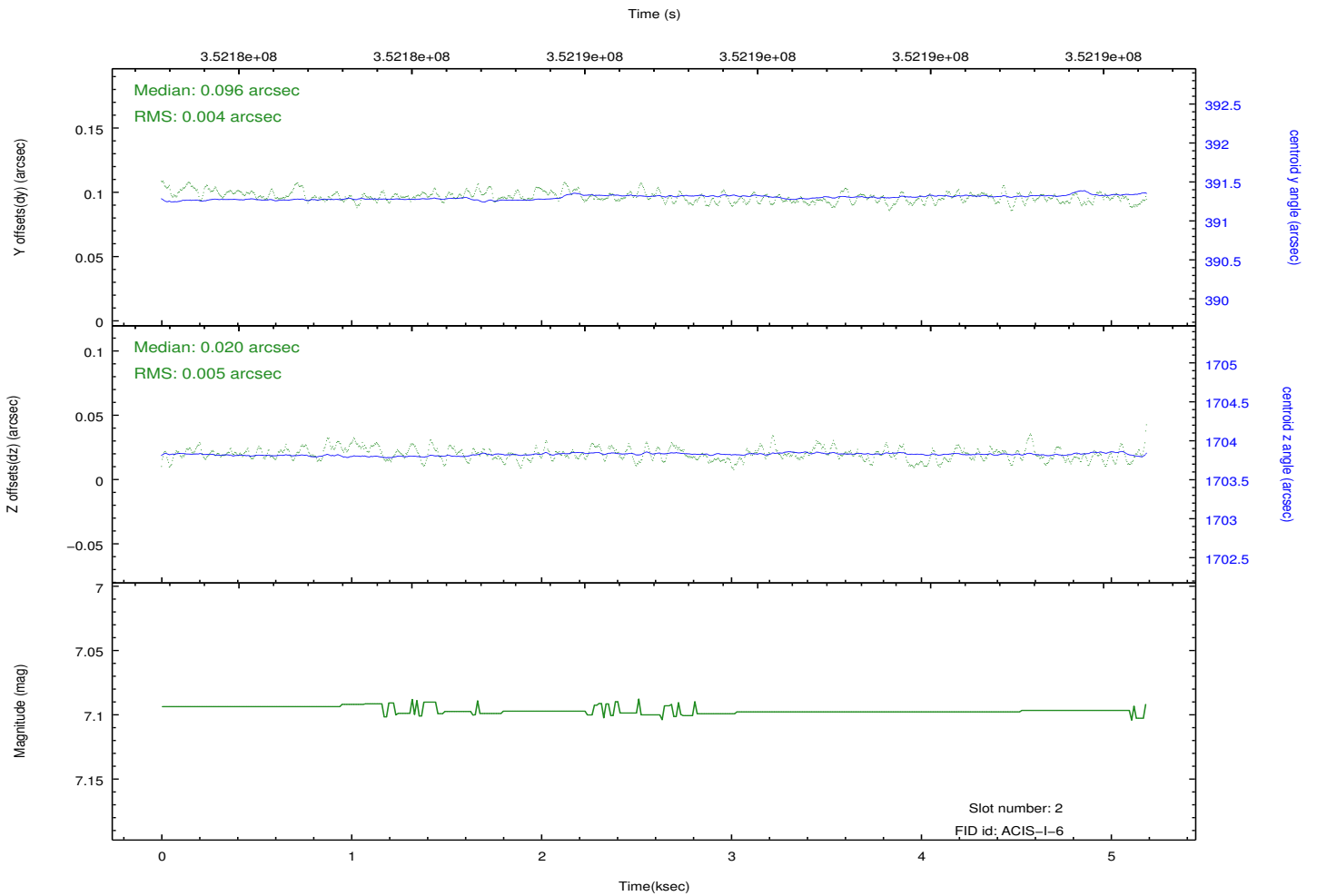
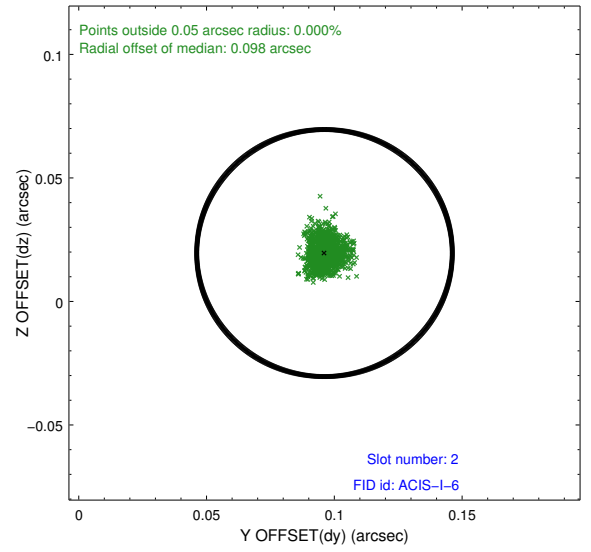
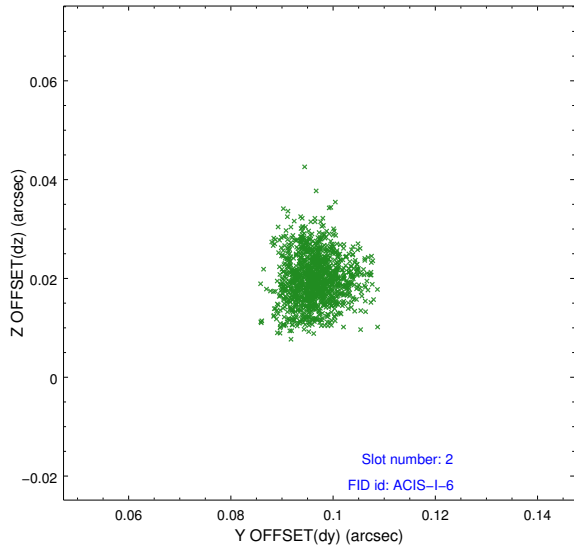
2.5.1 Slot 0



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)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

A.2 Comments