

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8064 - L2 Version 2
Chandra X-Ray Center

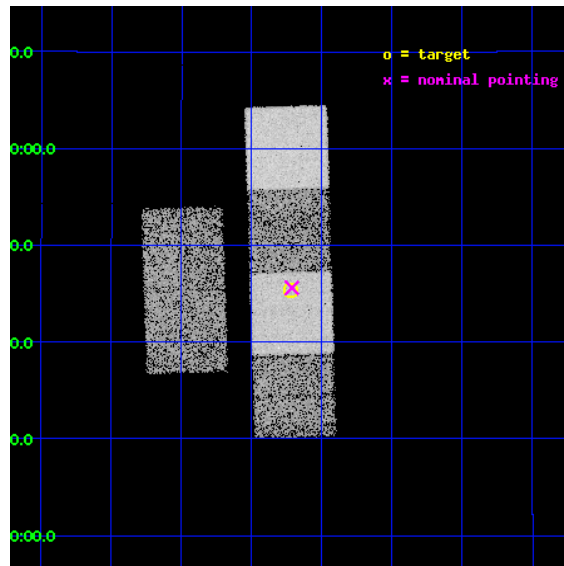
L2 Processing Date : May 10 2012

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1 Front

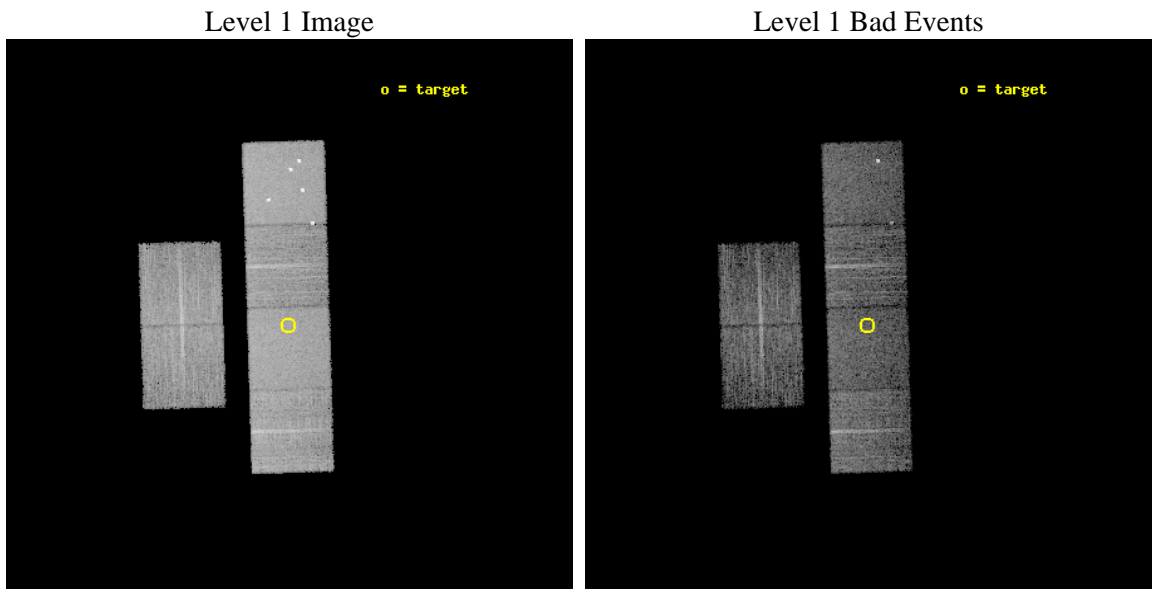
seq_num	900605	Sequence number
obs_id	8064	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1125	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.180833	Observer's specified target RA [deg]
dec_targ	11.755833	Observer's specified target Dec [deg]
ra_nom	187.17830876954	Nominal RA [deg]
dec_nom	11.760094192639	Nominal Dec [deg]
roll_nom	88.241849904678	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.2065366507	Sum of GTIs [s]
livetime	5092.8902195845	Livetime [s]
ontime2	5158.247576654	Sum of GTIs [s]
ontime3	5158.0834166408	Sum of GTIs [s]
ontime5	5158.1655064821	Sum of GTIs [s]
ontime6	5158.1244664788	Sum of GTIs [s]
ontime7	5158.2065366507	Sum of GTIs [s]
ontime8	5154.8013366461	Sum of GTIs [s]
l2events	88662	Number of level 2 events



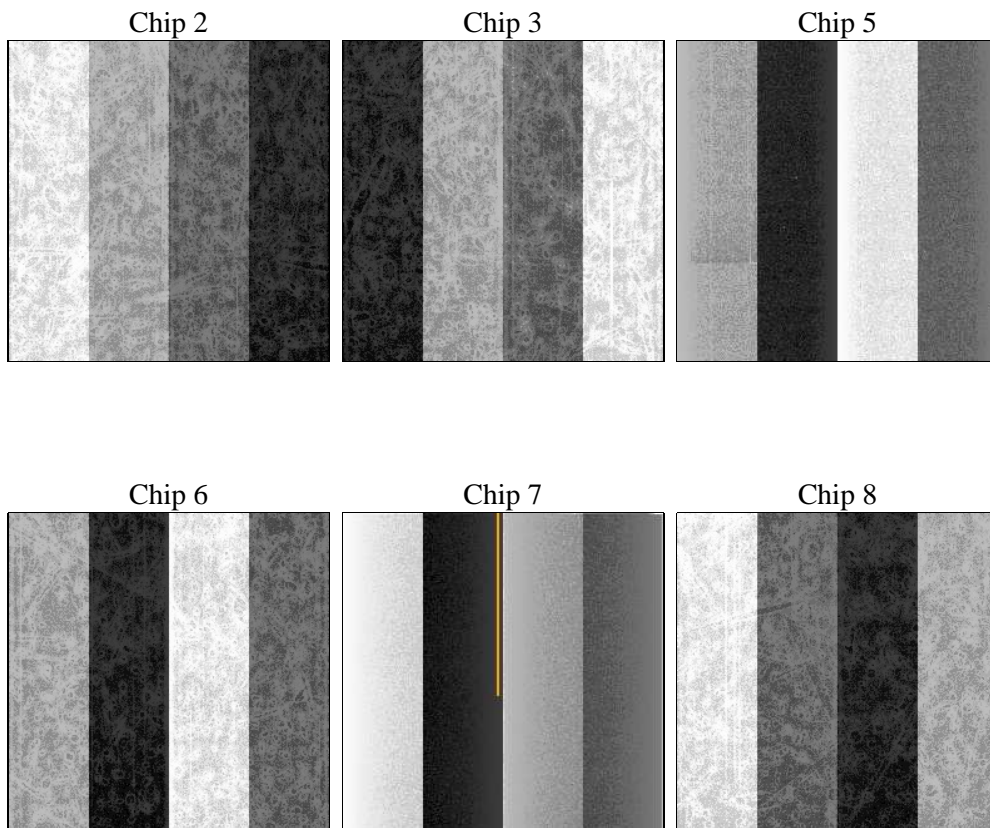
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5158.2065366507	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.247576654	Sum of GTIs [s]
date	2012-05-10T08:02:42	Date and time of file creation	ontime3	5158.0834166408	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.1655064821	Sum of GTIs [s]
			ontime6	5158.1244664788	Sum of GTIs [s]
			ontime7	5158.2065366507	Sum of GTIs [s]
			ontime8	5154.8013366461	Sum of GTIs [s]
			l1events	373577	Number of level 1 events

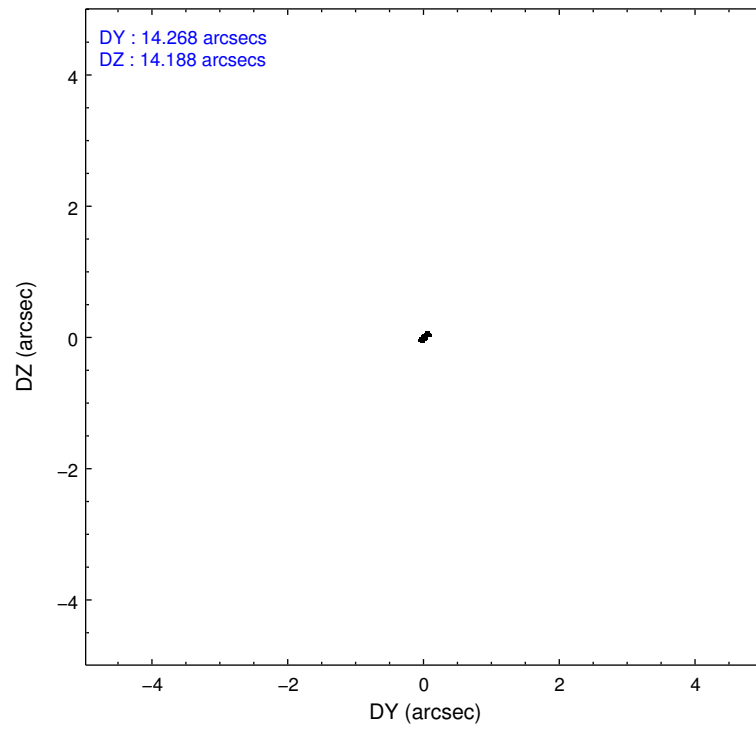
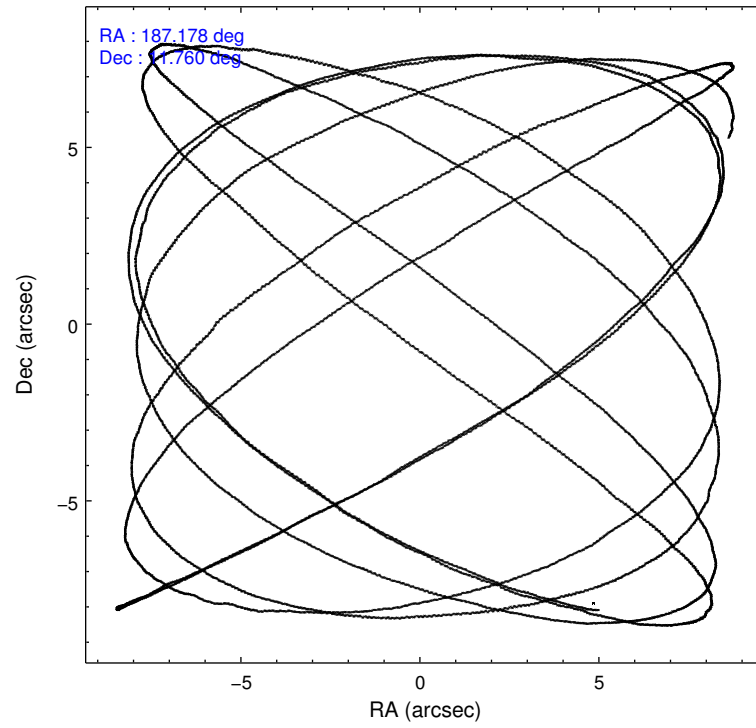
2.1.4 Events

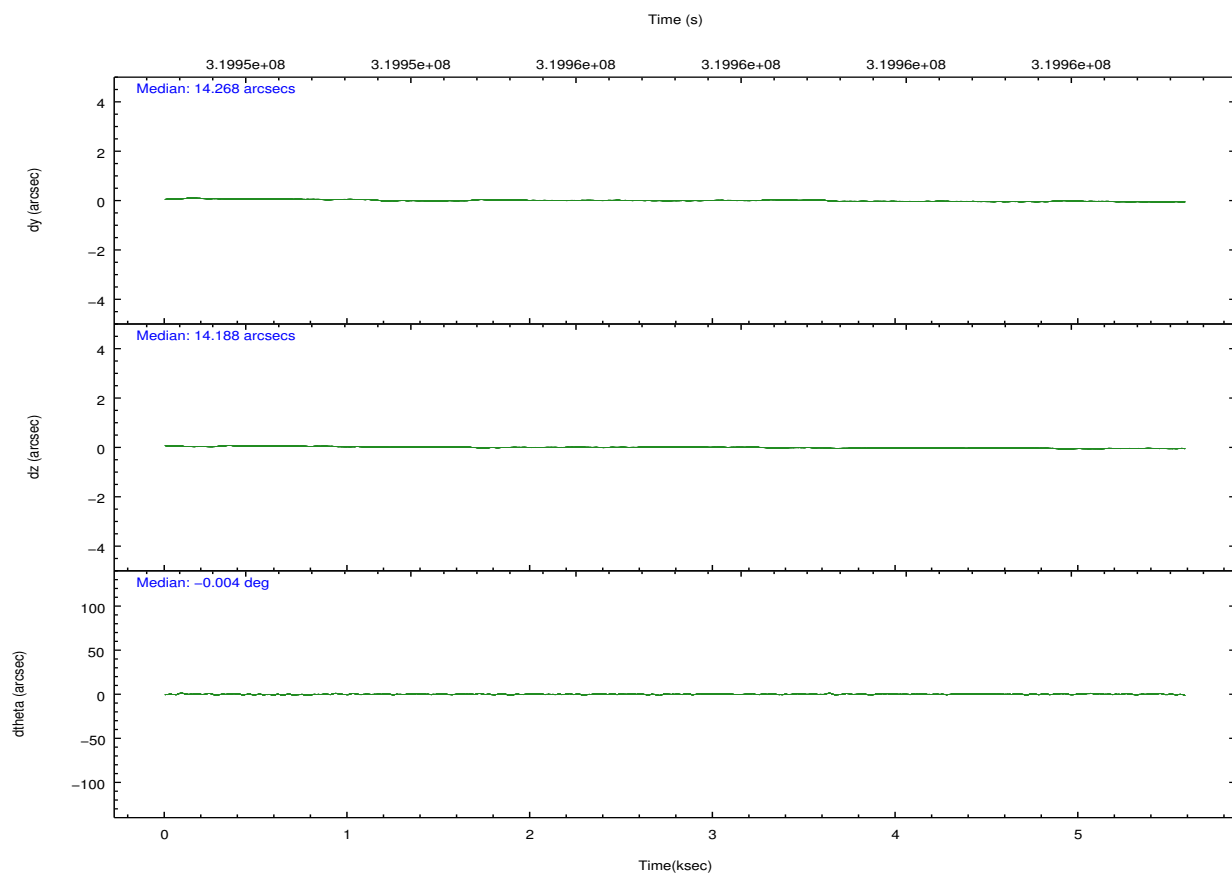
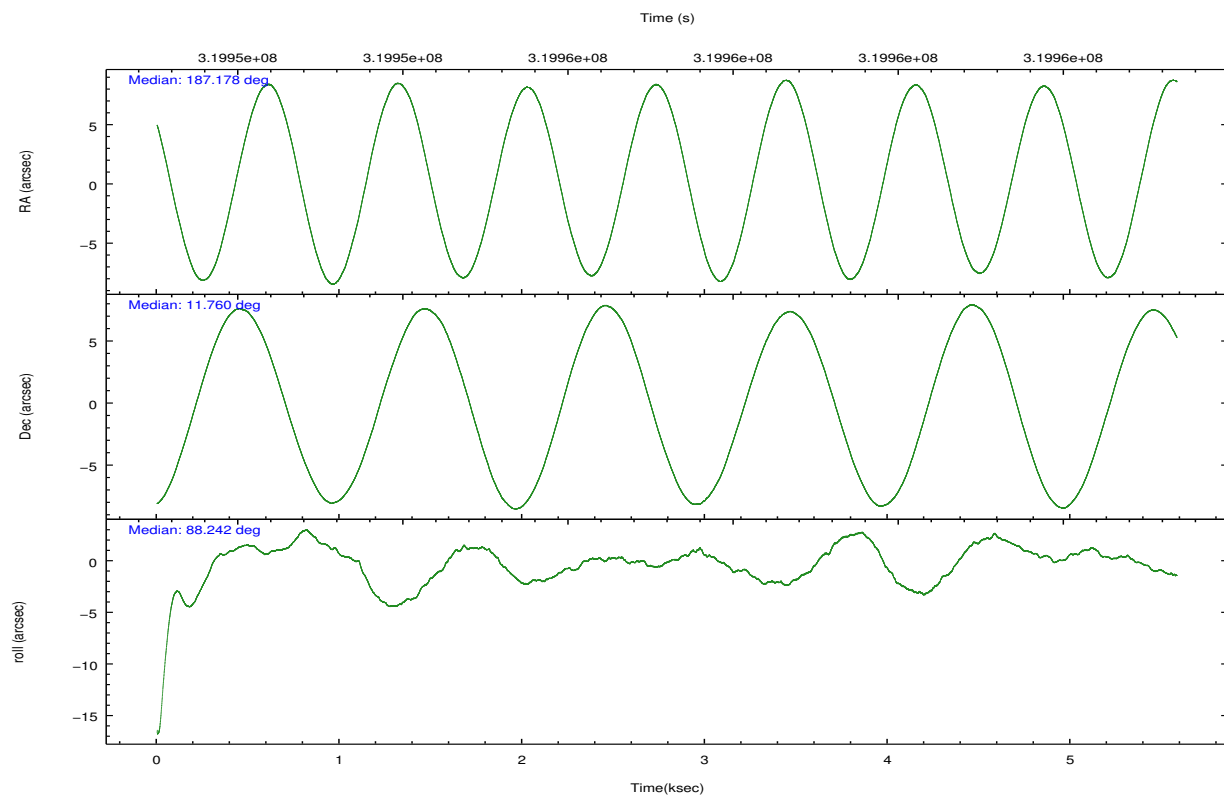
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51944	48923	84665	52136	69579	66330	grade 0 events	3789	3372	7337	3221	2738	4759
rejected events	44611	42047	42763	45033	40173	52212		7%	6%	8%	6%	3%	7%
rejected %	85%	85%	50%	86%	57%	78%	grade 1 events	43	34	128	34	56	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1338	1292	11609	1399	6087	3163
								2%	2%	13%	2%	8%	4%
							grade 3 events	594	598	1445	602	2477	1405
								1%	1%	1%	1%	3%	2%
							grade 4 events	574	560	1302	577	2493	1336
								1%	1%	1%	1%	3%	2%
							grade 5 events	1994	2289	5481	2381	6339	3063
								3%	4%	6%	4%	9%	4%
							grade 6 events	1041	1067	20258	1305	15635	3477
								2%	2%	23%	2%	22%	5%
							grade 7 events	42571	39711	37105	42617	33754	49069
								81%	81%	43%	81%	48%	73%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	187.191908	187.1783087695367	CCD I2 on	O1	Y
[deg] Pointing Dec	11.736125	11.76009419263867	CCD I3 on	O2	Y
[deg] Pointing Roll	88.082449	88.2418499046783	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	Y	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)	319952987.184000	319952603.9172	CCD S5 on	N	N
Observation start date	2008-02-21T03:48:42	2008-02-21T03:43:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319958387.184000	319958599.65499	On-chip summing requested	N	N
Observation end date	2008-02-21T05:18:42	2008-02-21T05:23:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



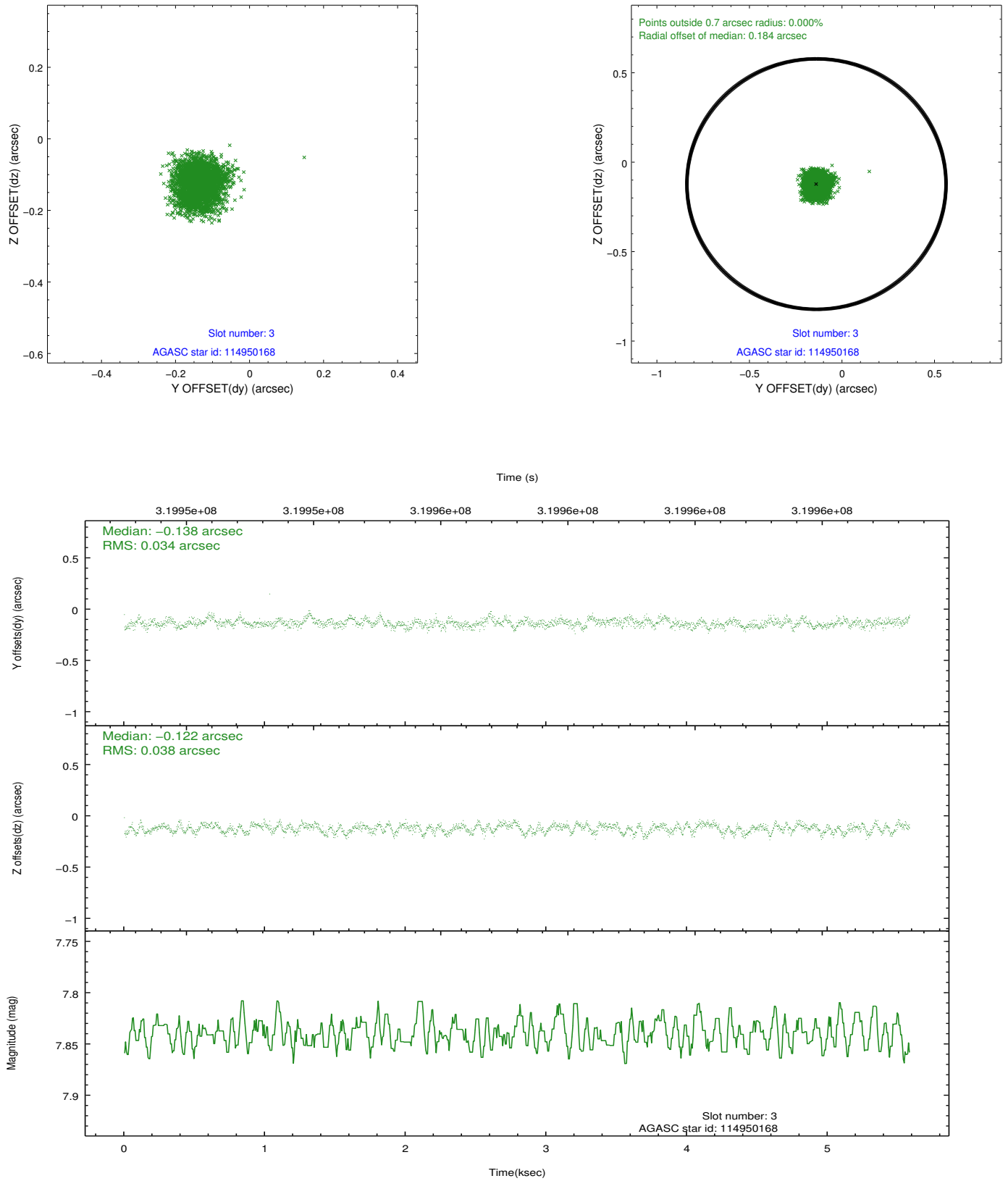


Slot Statistics

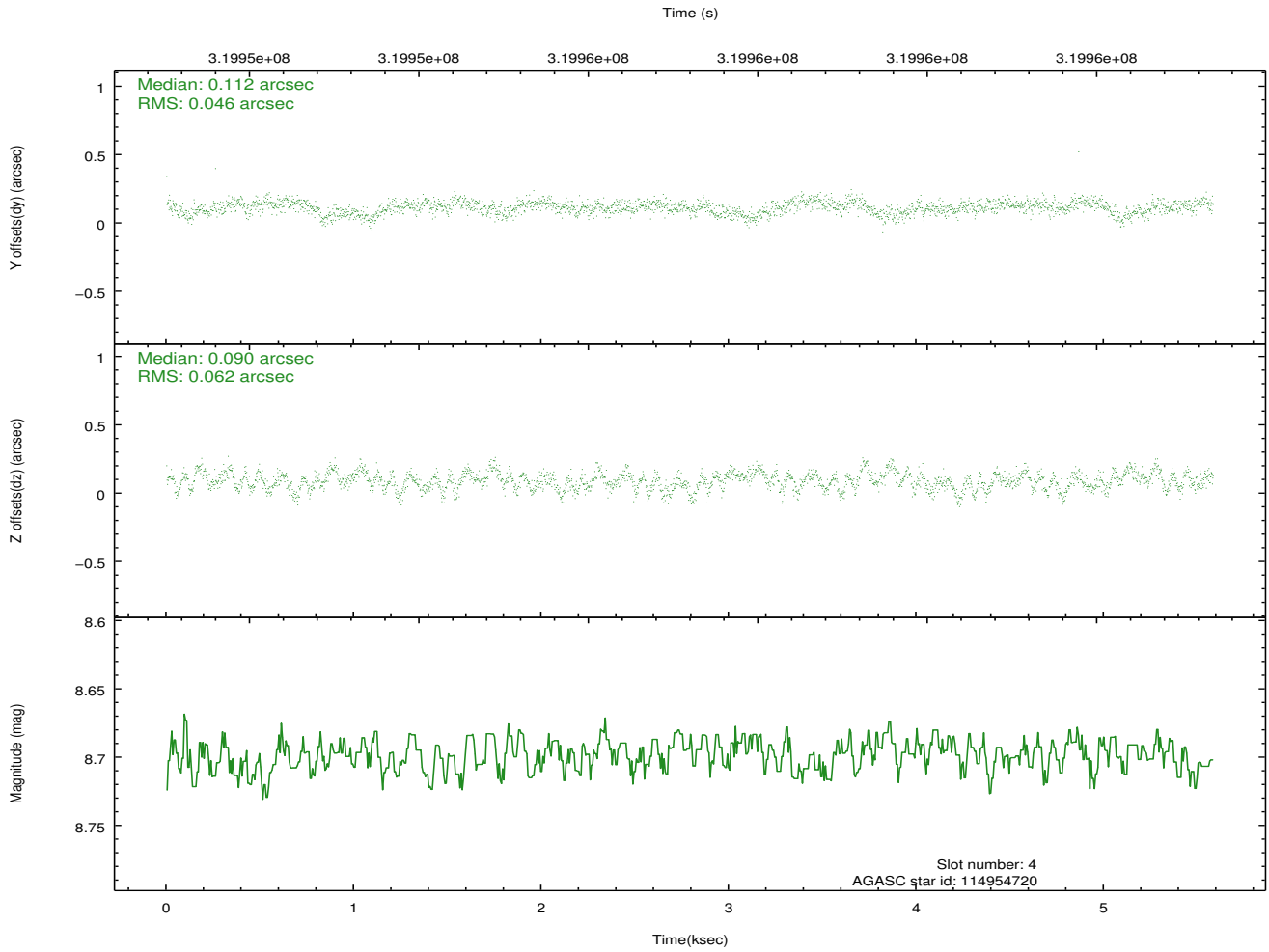
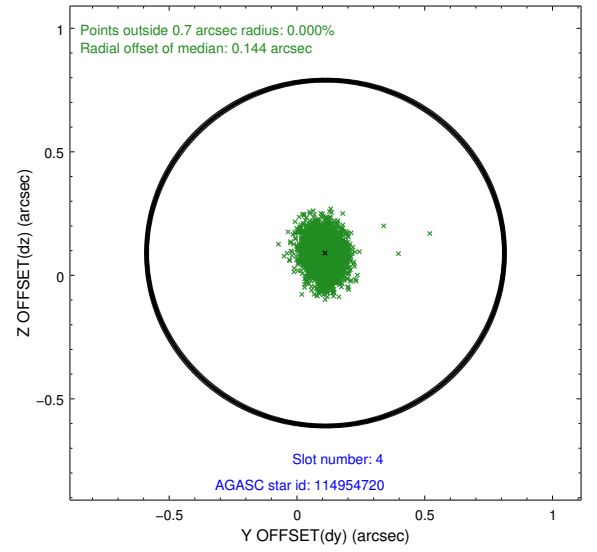
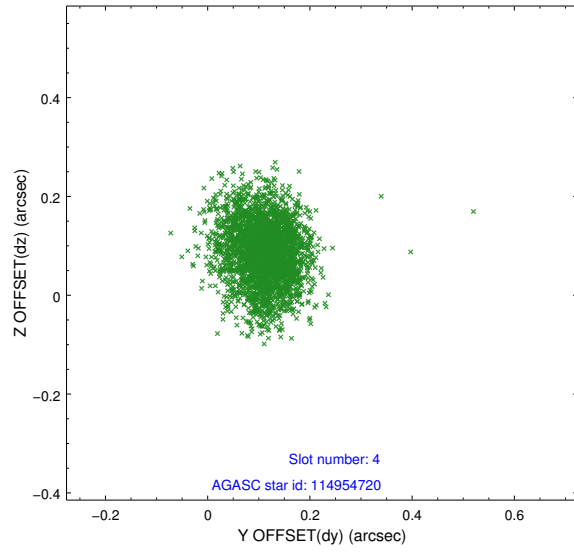
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1361	-0.076	-0.061	0.007	0.011	0.000000	0.000000	-767.29	-1735.55
1	FID	ACIS-S-4	7.20	1362	0.206	0.053	0.006	0.011	0.000000	0.000000	2145.77	171.93
2	FID	ACIS-S-5	7.23	1362	-0.162	0.017	0.007	0.012	0.000000	0.000000	-1818.85	166.79
3	GUIDE	114950168	7.84	2724	-0.138	-0.122	0.055	0.086	187.143398	12.117441	1365.89	216.30
4	GUIDE	114954720	8.70	2723	0.112	0.090	0.081	0.133	187.384636	11.492566	-852.59	-708.57
5	GUIDE	114955672	9.15	2720	-0.049	-0.080	0.094	0.151	186.876368	11.136298	-2195.32	1041.40
6	GUIDE	114957008	8.21	2724	-0.135	-0.040	0.065	0.105	186.894794	12.099160	1270.63	1089.76
7	GUIDE	114957272	8.86	2721	0.210	0.156	0.072	0.115	187.367706	11.138889	-2127.24	-691.77

2.4 Star Slots

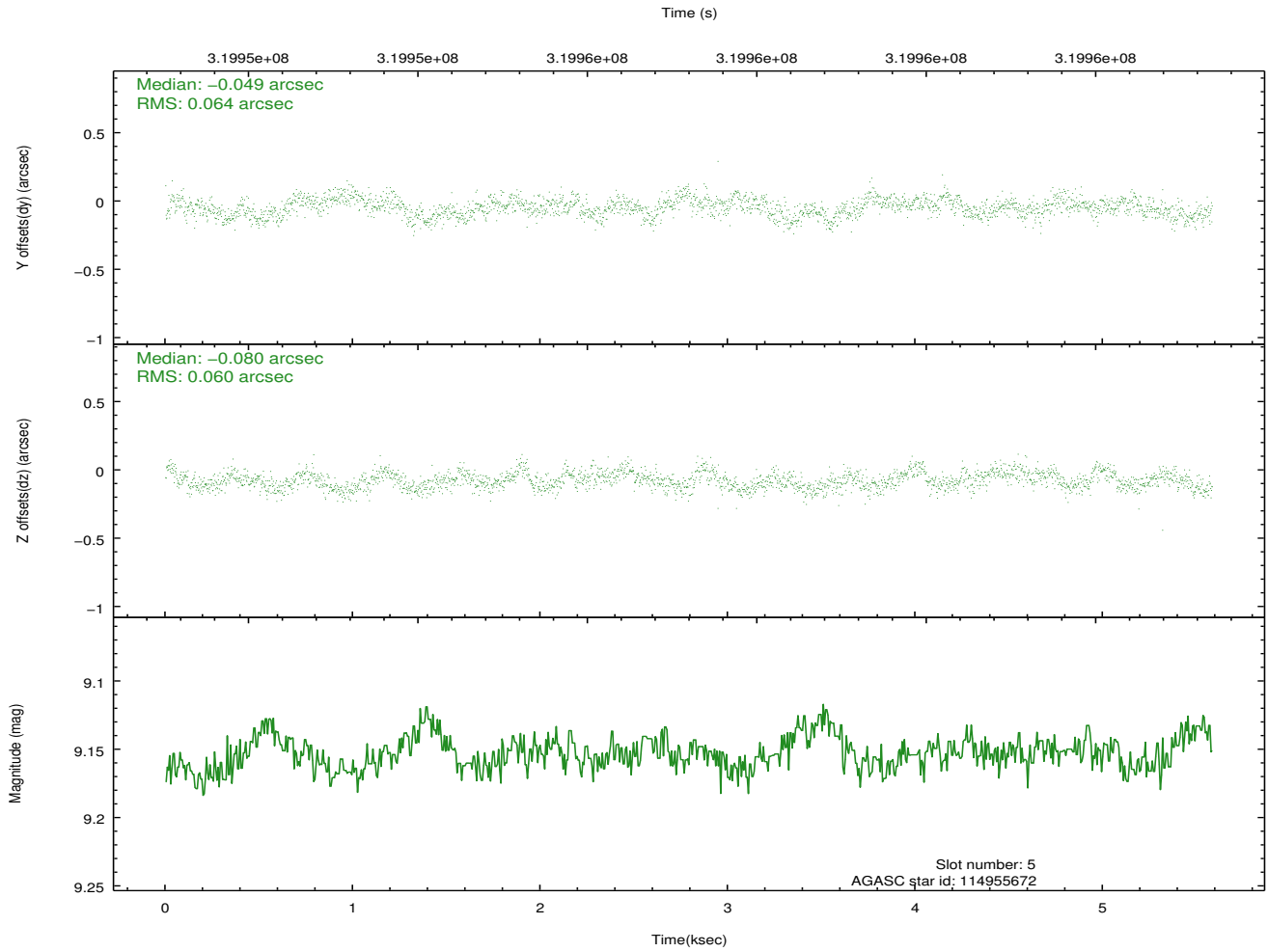
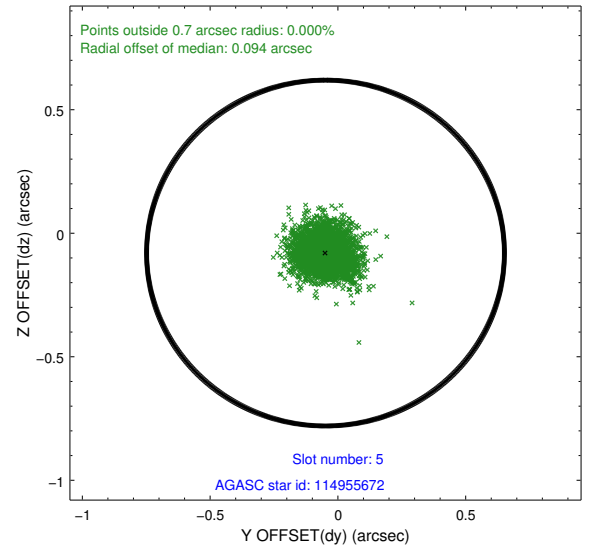
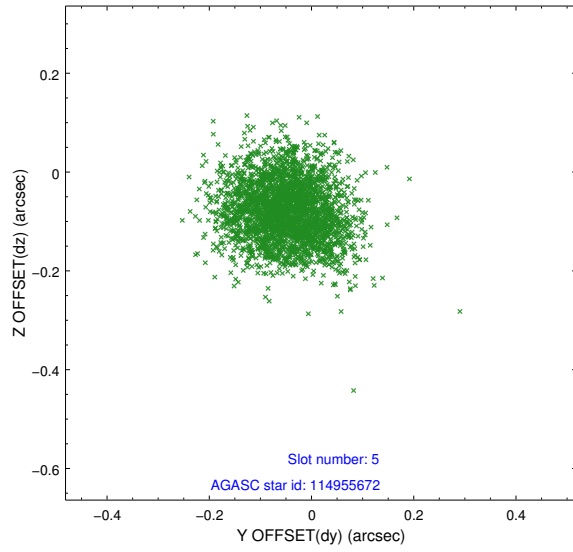
2.4.1 Slot 3



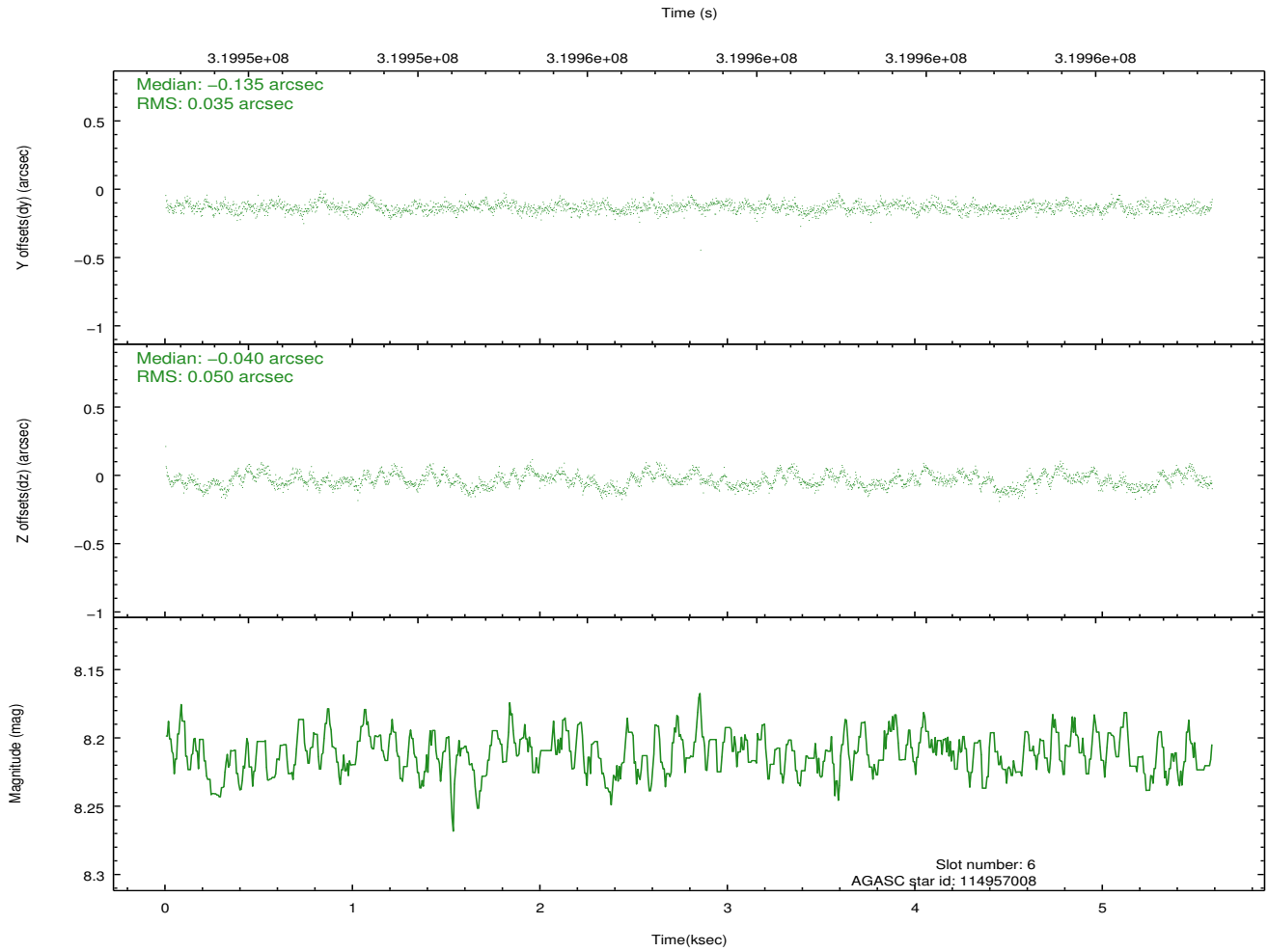
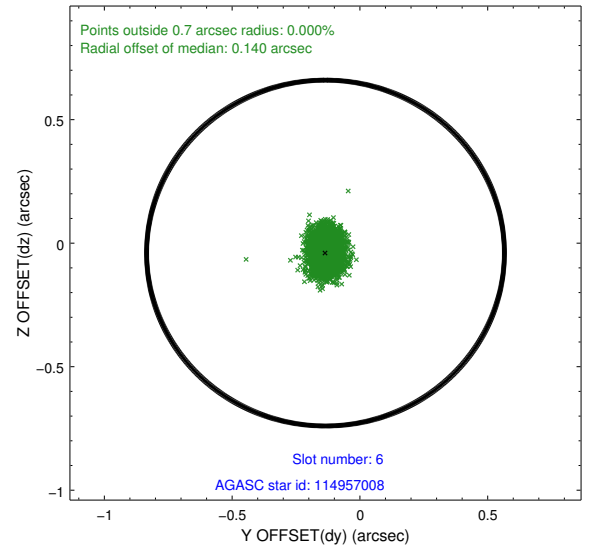
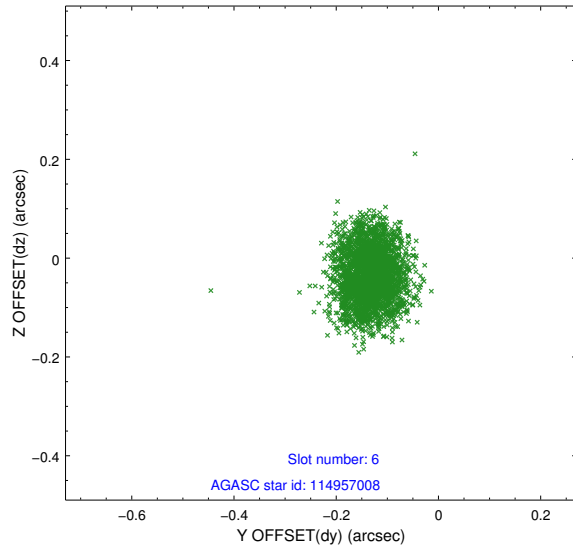
2.4.2 Slot 4



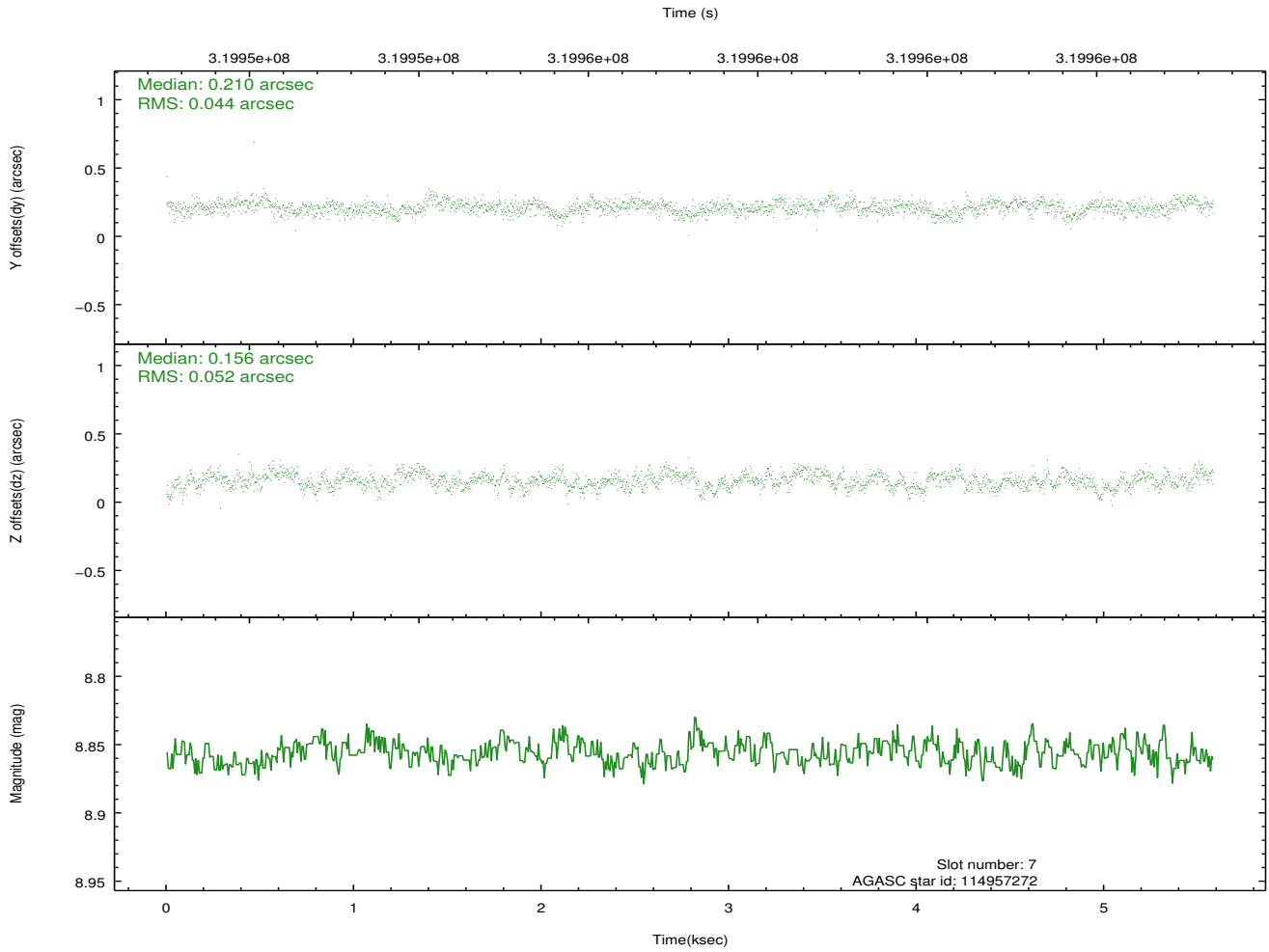
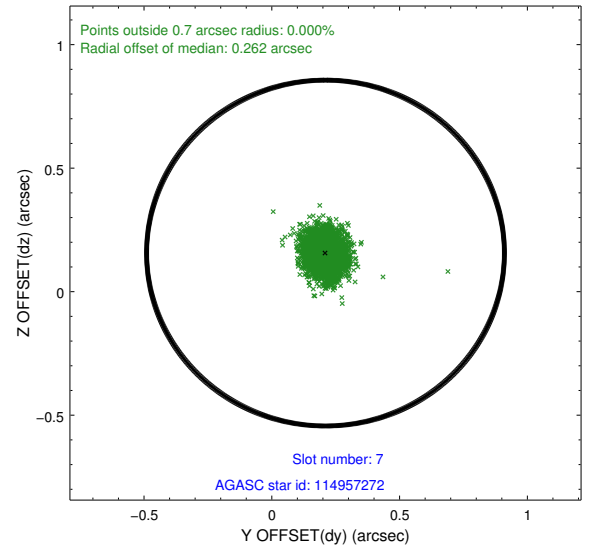
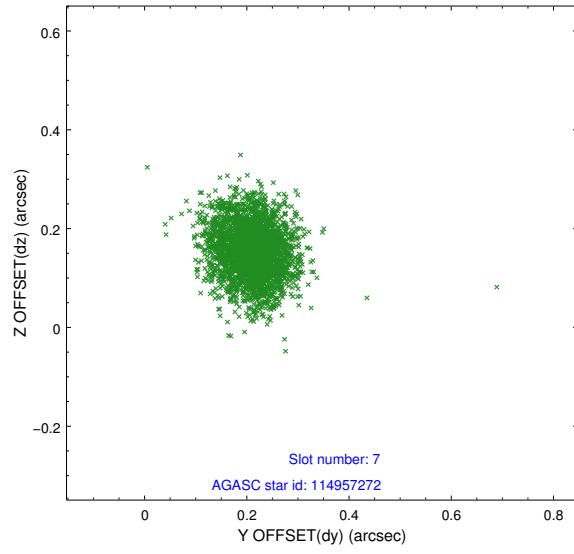
2.4.3 Slot 5



2.4.4 Slot 6

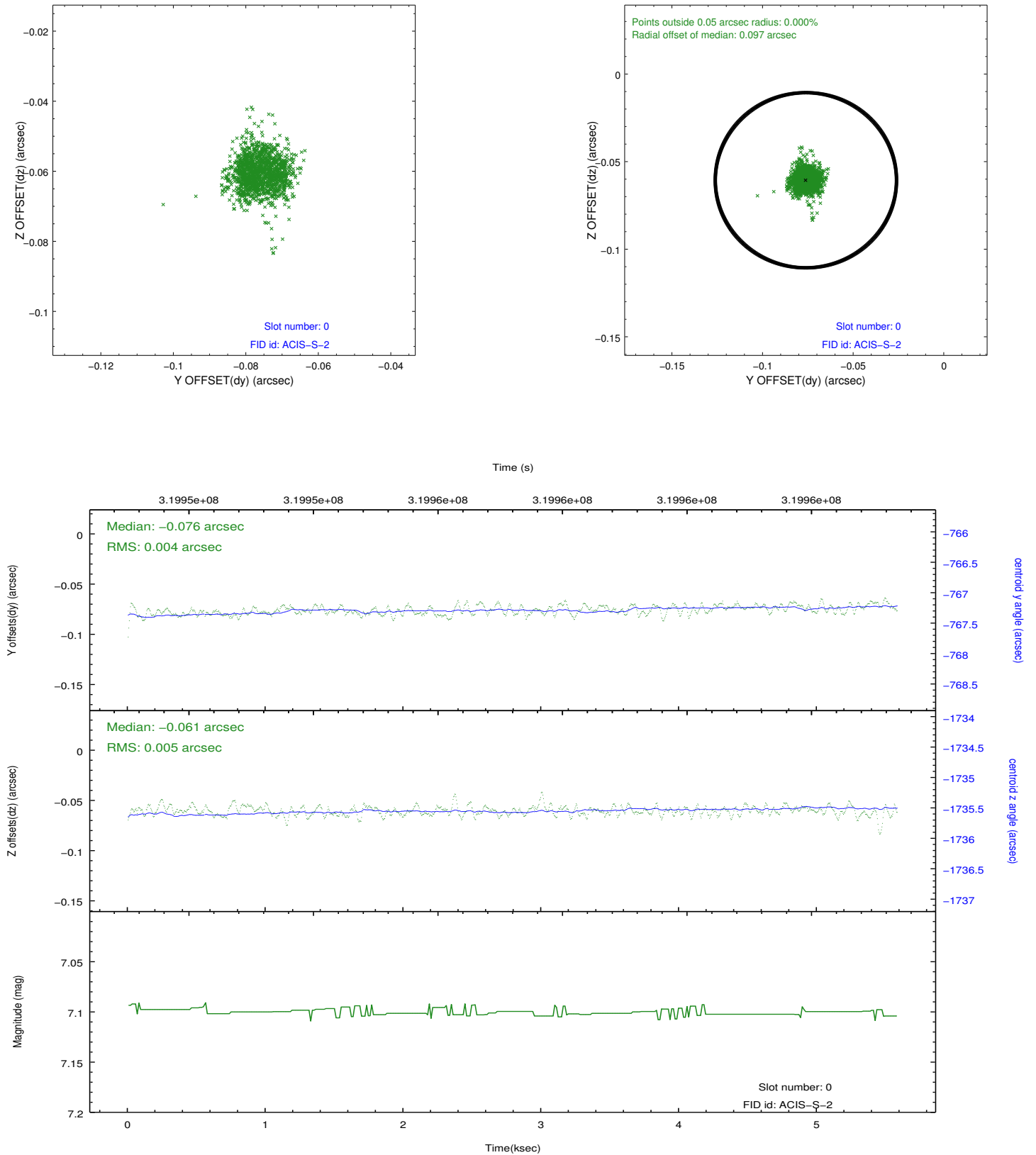


2.4.5 Slot 7

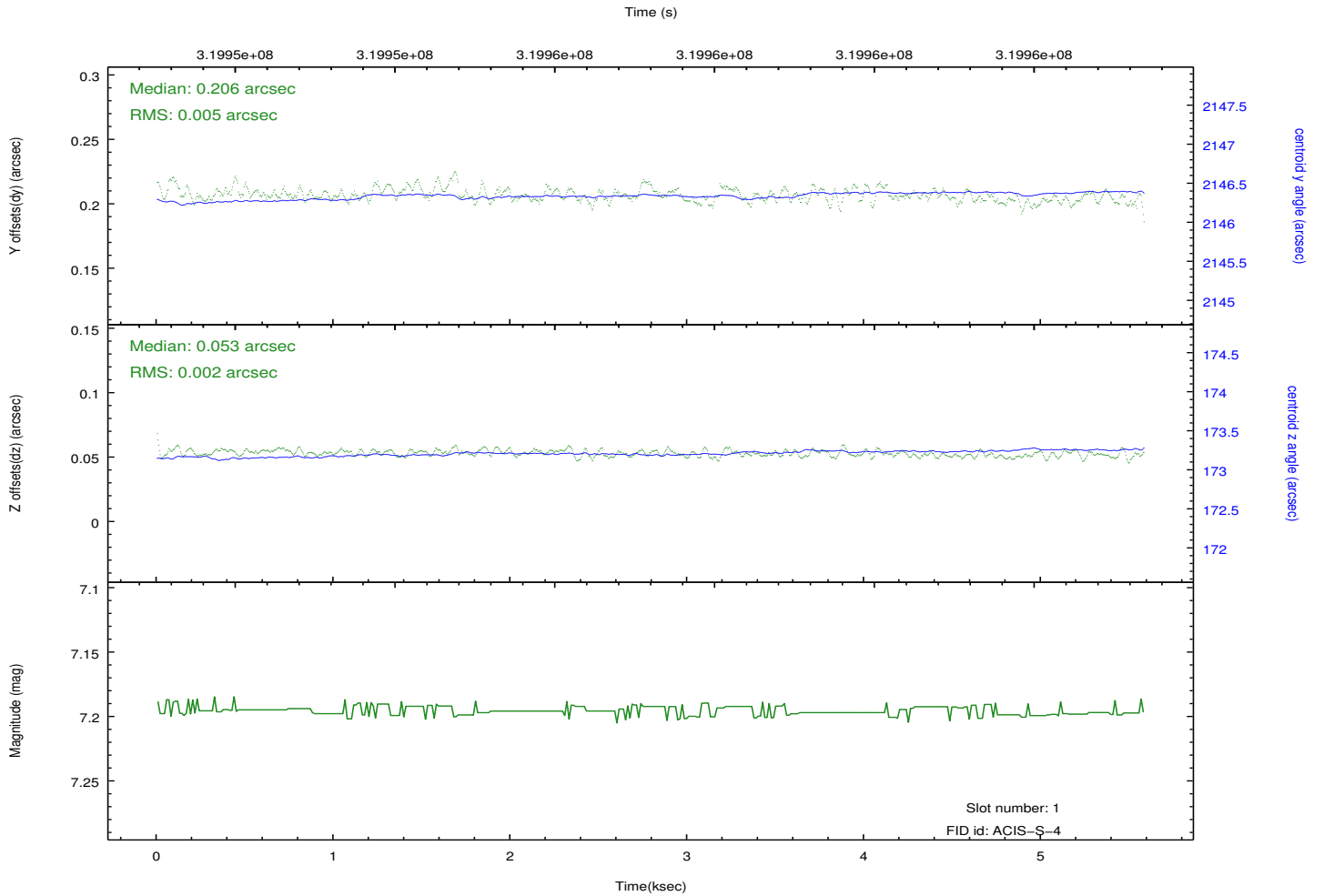
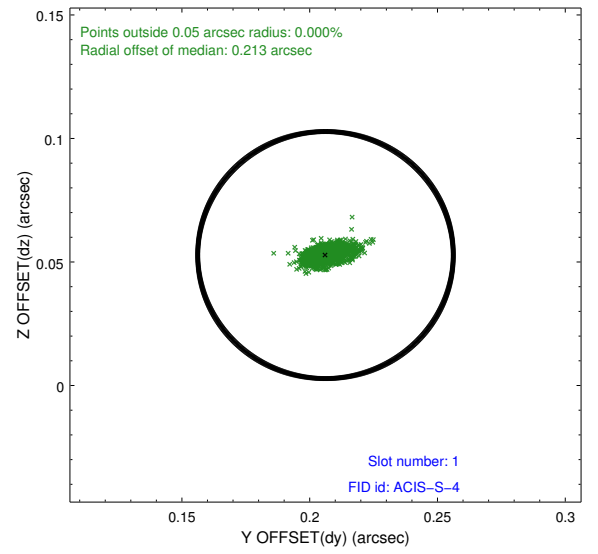
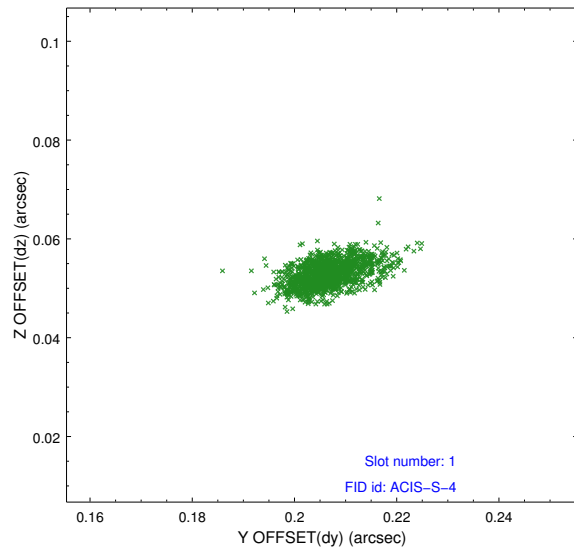


2.5 FID Slots

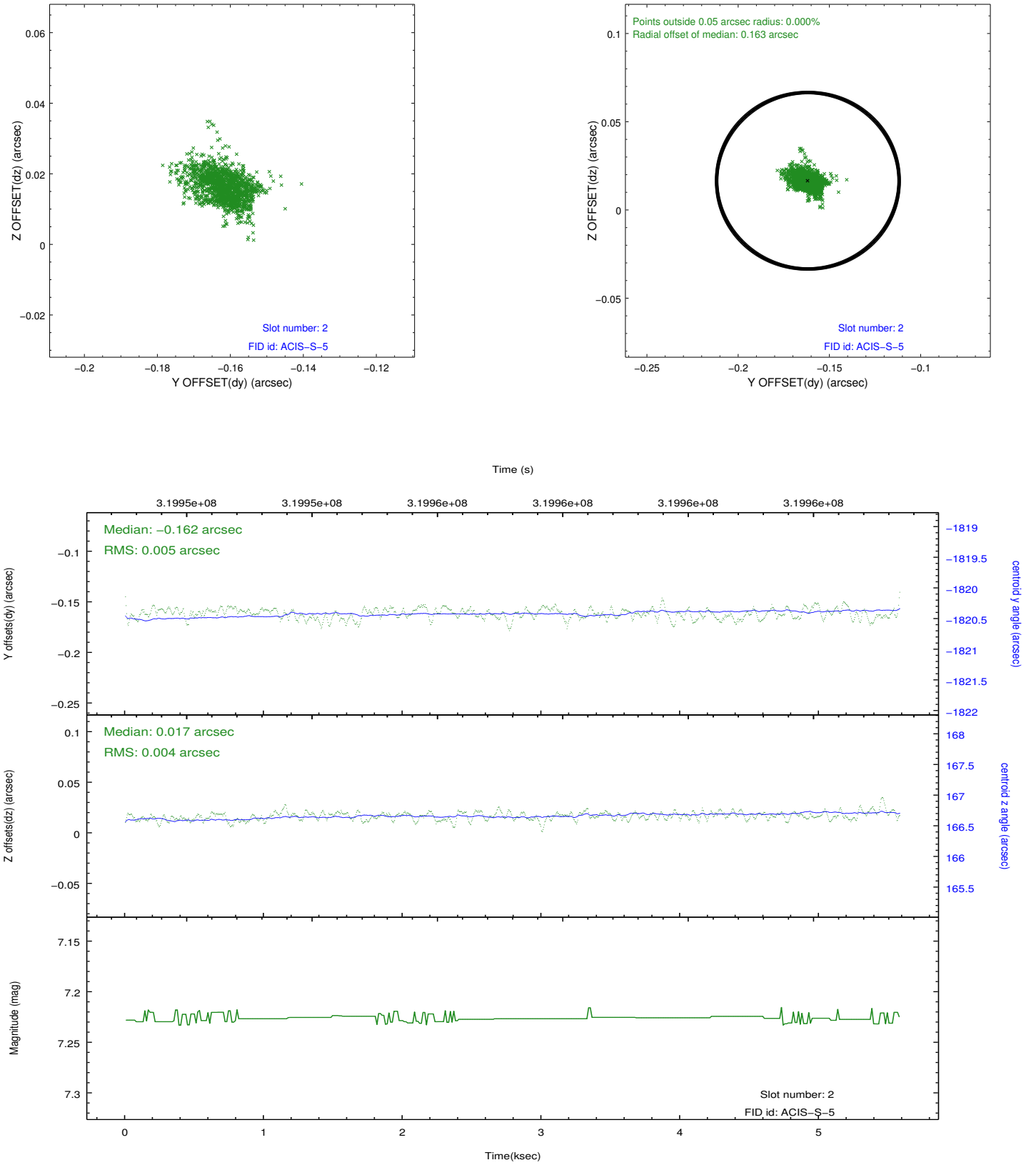
2.5.1 Slot 0



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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint proposal with Spitzer.