

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9771 - L2 Version 2
Chandra X-Ray Center

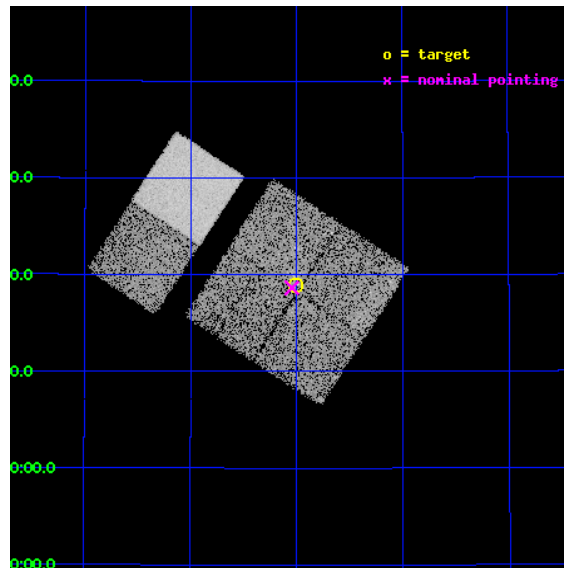
L2 Processing Date : May 5 2012

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1 Front

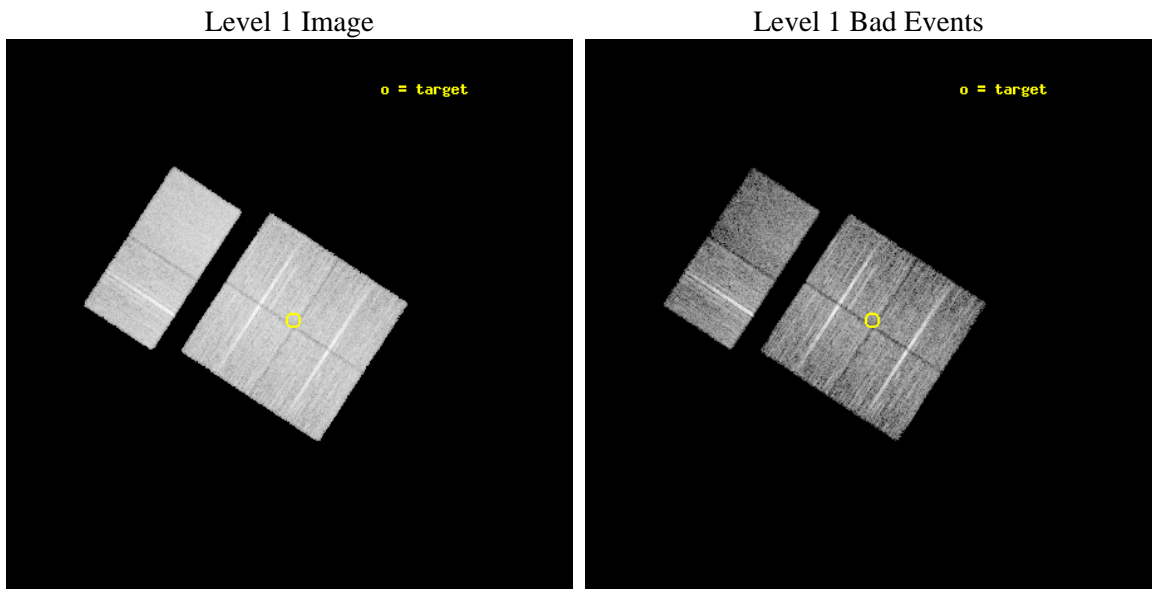
seq_num	200454	Sequence number
obs_id	9771	Observation id
title	The high-mass star forming region DR21	Proposal title
observer	Dr. Francesco Damiani	Principal investigator
object	DR 21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	309.752917	Observer's specified target RA [deg]
dec_targ	42.315778	Observer's specified target Dec [deg]
ra_nom	309.76134113138	Nominal RA [deg]
dec_nom	42.310697905959	Nominal Dec [deg]
roll_nom	303.18301853091	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9259.8607510328	Sum of GTIs [s]
livetime	9142.6068185845	Livetime [s]
ontime0	9259.7376310229	Sum of GTIs [s]
ontime1	9259.7786710262	Sum of GTIs [s]
ontime2	9259.8197110295	Sum of GTIs [s]
ontime3	9259.8607510328	Sum of GTIs [s]
ontime6	9259.9428310394	Sum of GTIs [s]
ontime7	9259.9017910361	Sum of GTIs [s]
l2events	71171	Number of level 2 events



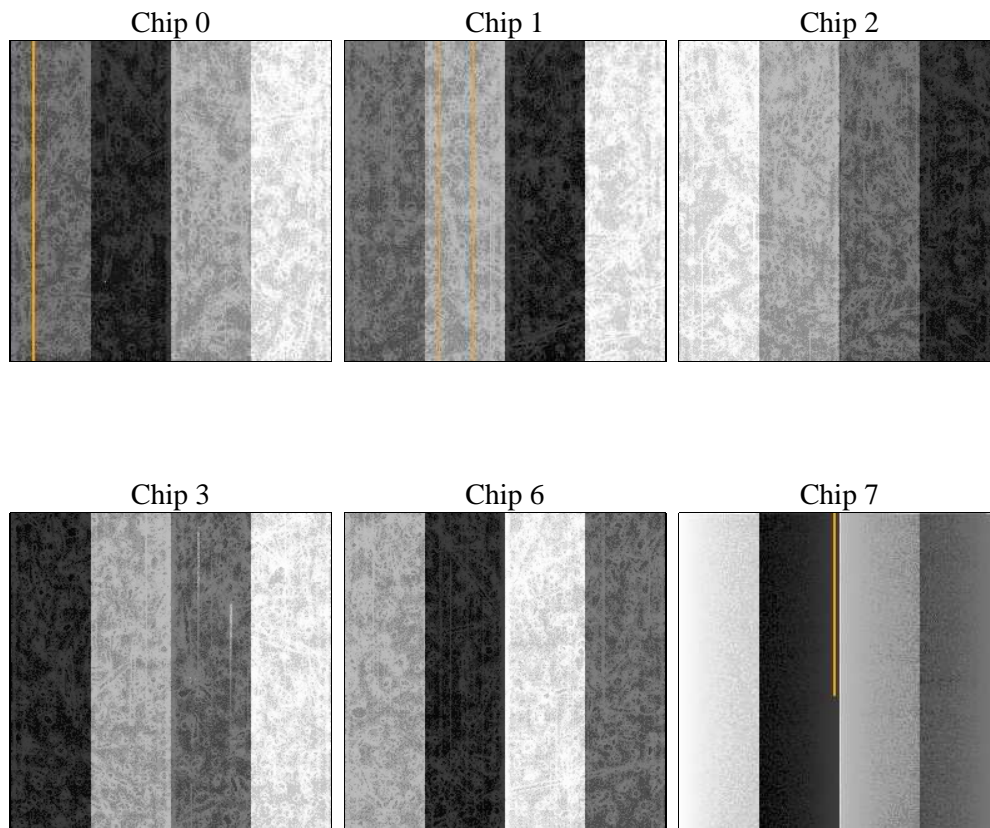
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9218.325000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	9259.8607510328	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	9259.7376310229	Sum of GTIs [s]
date	2012-05-05T20:47:11	Date and time of file creation	ontime1	9259.7786710262	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	9259.8197110295	Sum of GTIs [s]
			ontime3	9259.8607510328	Sum of GTIs [s]
			ontime6	9259.9428310394	Sum of GTIs [s]
			ontime7	9259.9017910361	Sum of GTIs [s]
			l1events	459244	Number of level 1 events

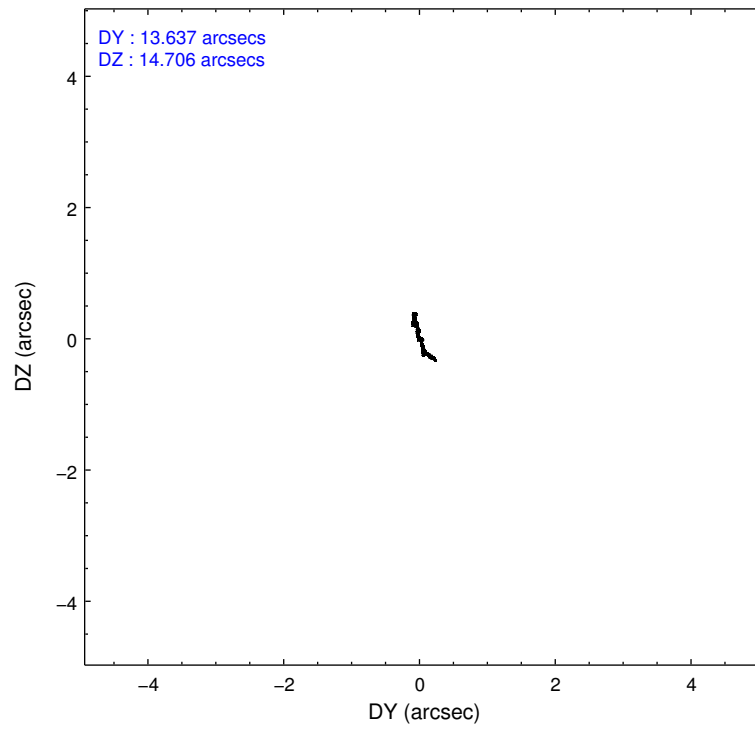
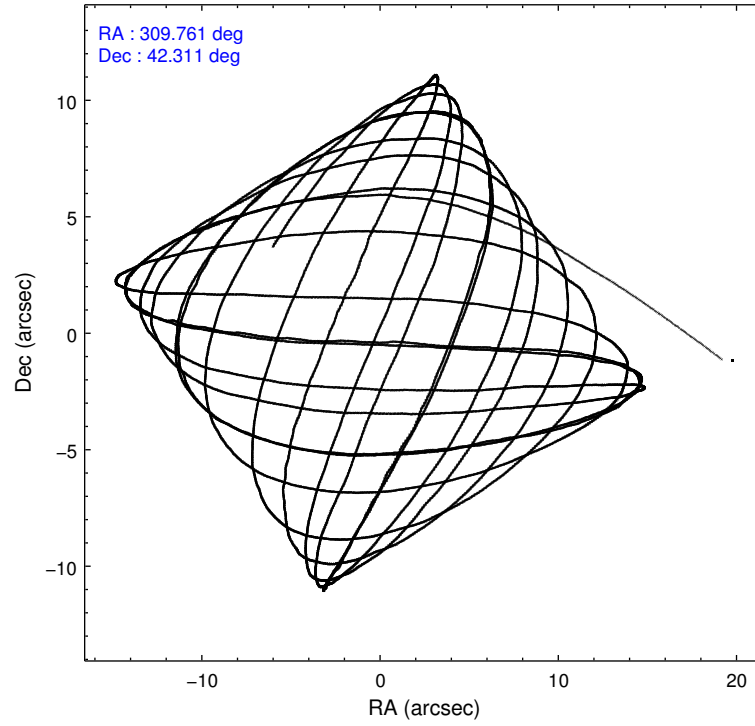
2.1.4 Events

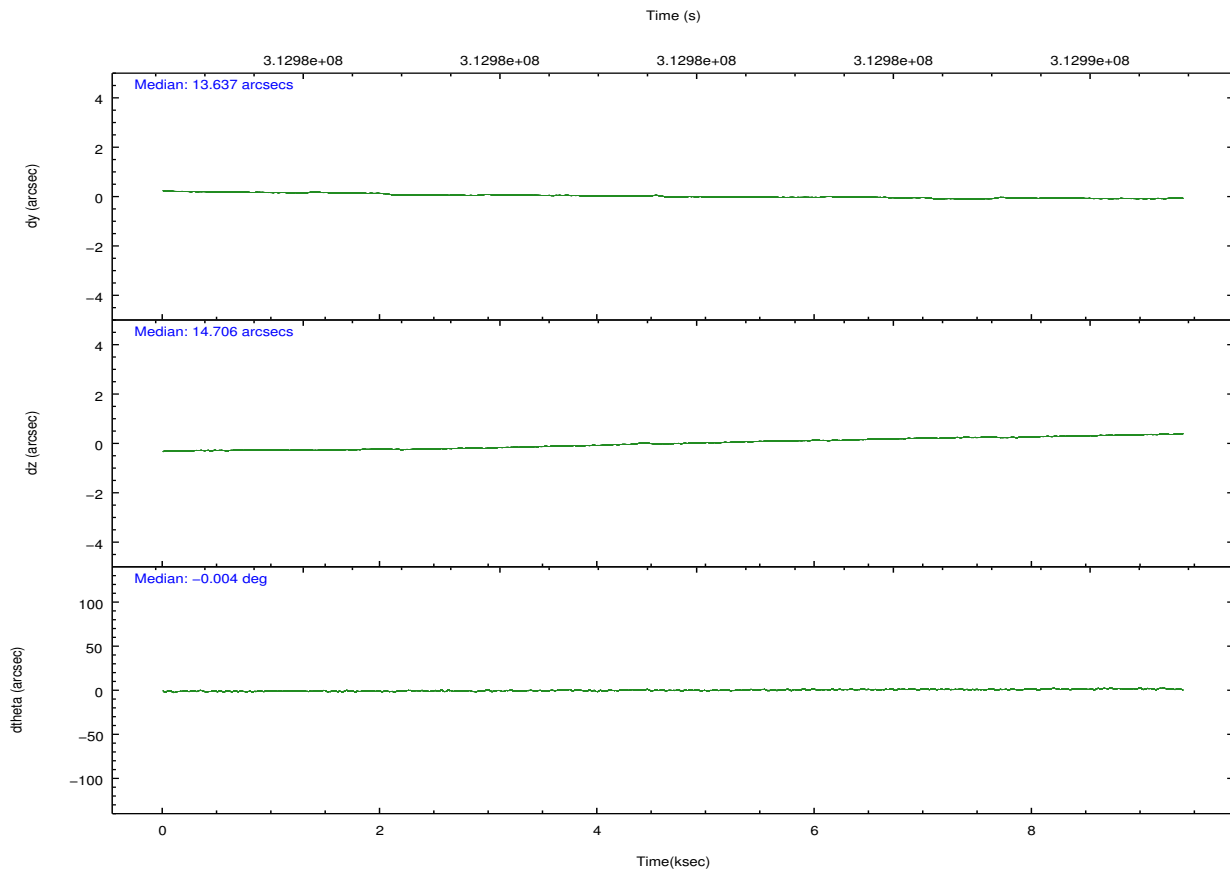
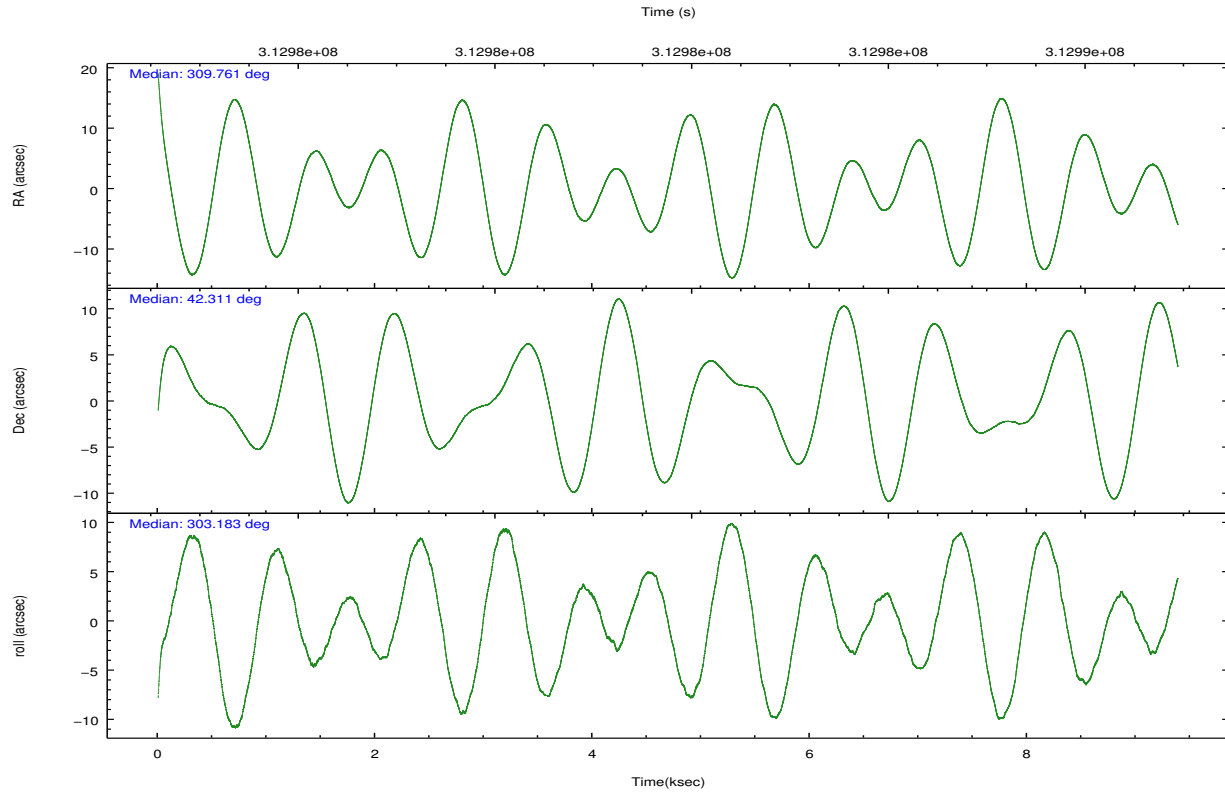
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	72880	68528	79619	76148	78105	83964	grade 0 events	3069	3380	2889	3420	2732	3385
rejected events	64868	59699	71942	67829	70205	45937		4%	4%	3%	4%	3%	4%
rejected %	89%	87%	90%	89%	89%	54%	grade 1 events	37	49	47	43	37	92
								0%	0%	0%	0%	0%	0%
							grade 2 events	1829	1918	1880	1737	1720	7774
								2%	2%	2%	2%	2%	9%
							grade 3 events	858	883	747	854	886	3471
								1%	1%	0%	1%	1%	4%
							grade 4 events	830	867	786	795	870	3384
								1%	1%	0%	1%	1%	4%
							grade 5 events	2578	2921	2409	2967	3079	8598
								3%	4%	3%	3%	3%	10%
							grade 6 events	1434	1784	1376	1519	1697	20047
								1%	2%	1%	1%	2%	23%
							grade 7 events	62245	56726	69485	64813	67084	37213
								85%	82%	87%	85%	85%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	309.728088	309.7613411313781	CCD I2 on	Y	Y
[deg] Pointing Dec	42.322938	42.310697905959	CCD I3 on	Y	Y
[deg] Pointing Roll	302.996715	303.183018530907	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	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	312977233.184000	312976221.41674	CCD S5 on	N	N
Observation start date	2007-12-02T10:06:08	2007-12-02T09:50:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	312986451.184000	312986676.92975	On-chip summing requested	N	N
Observation end date	2007-12-02T12:39:46	2007-12-02T12:44:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



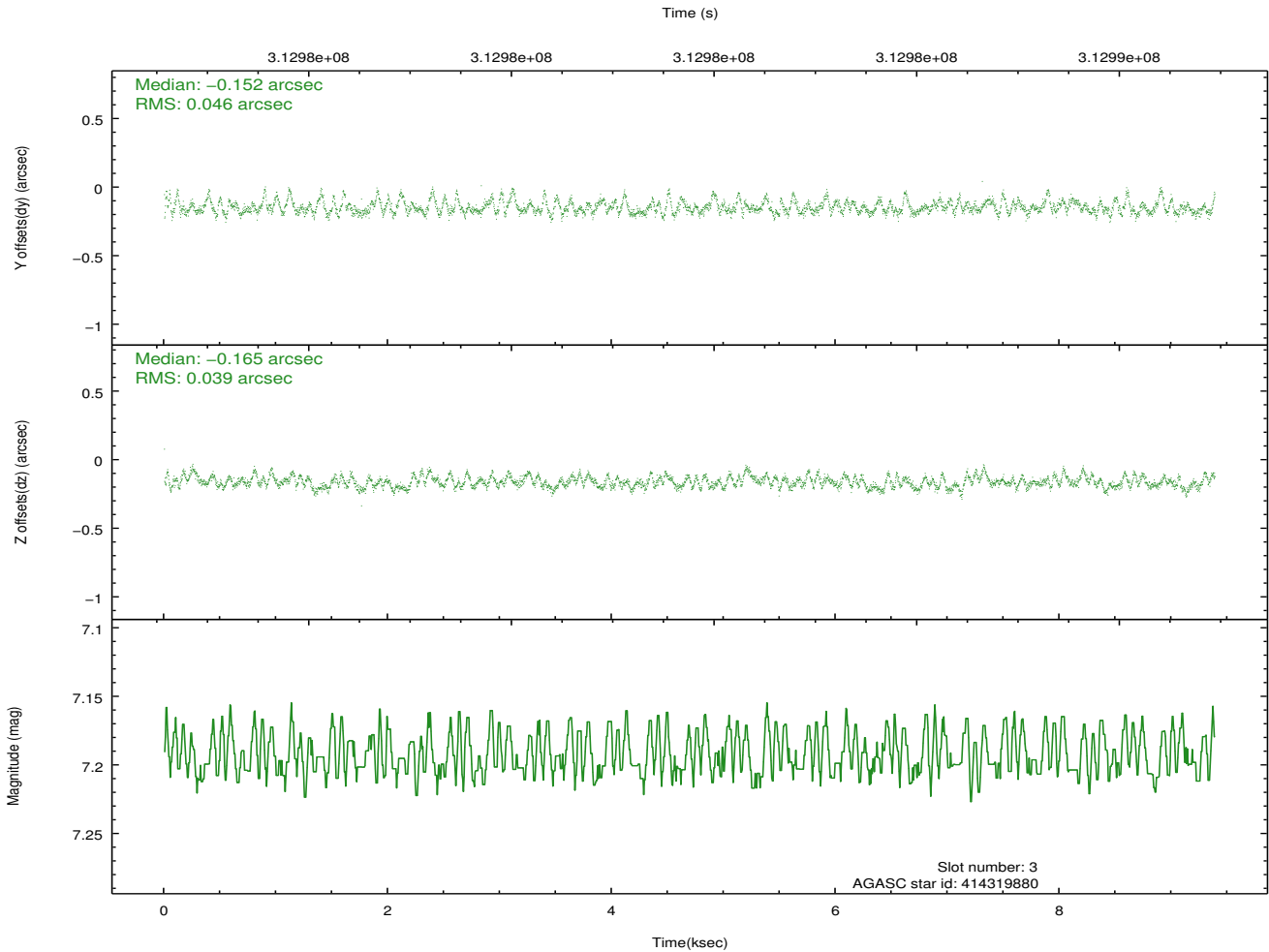
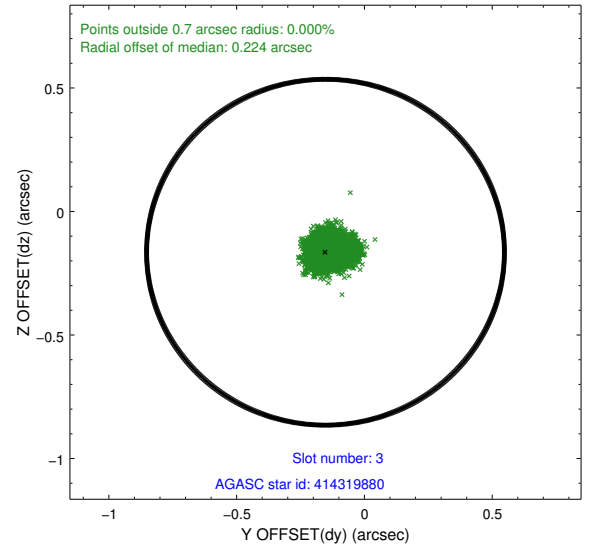
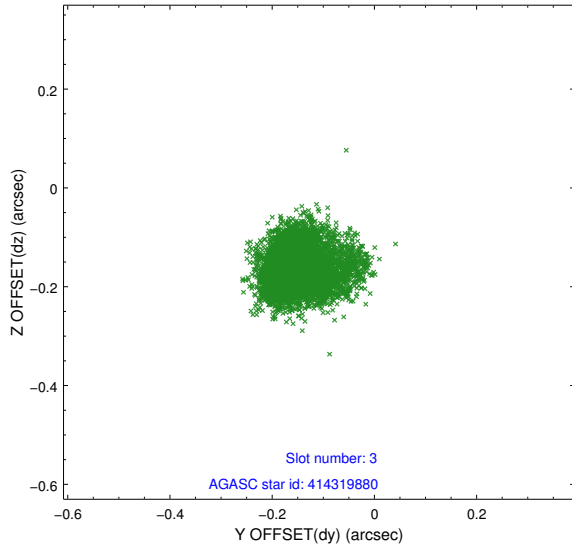


Slot Statistics

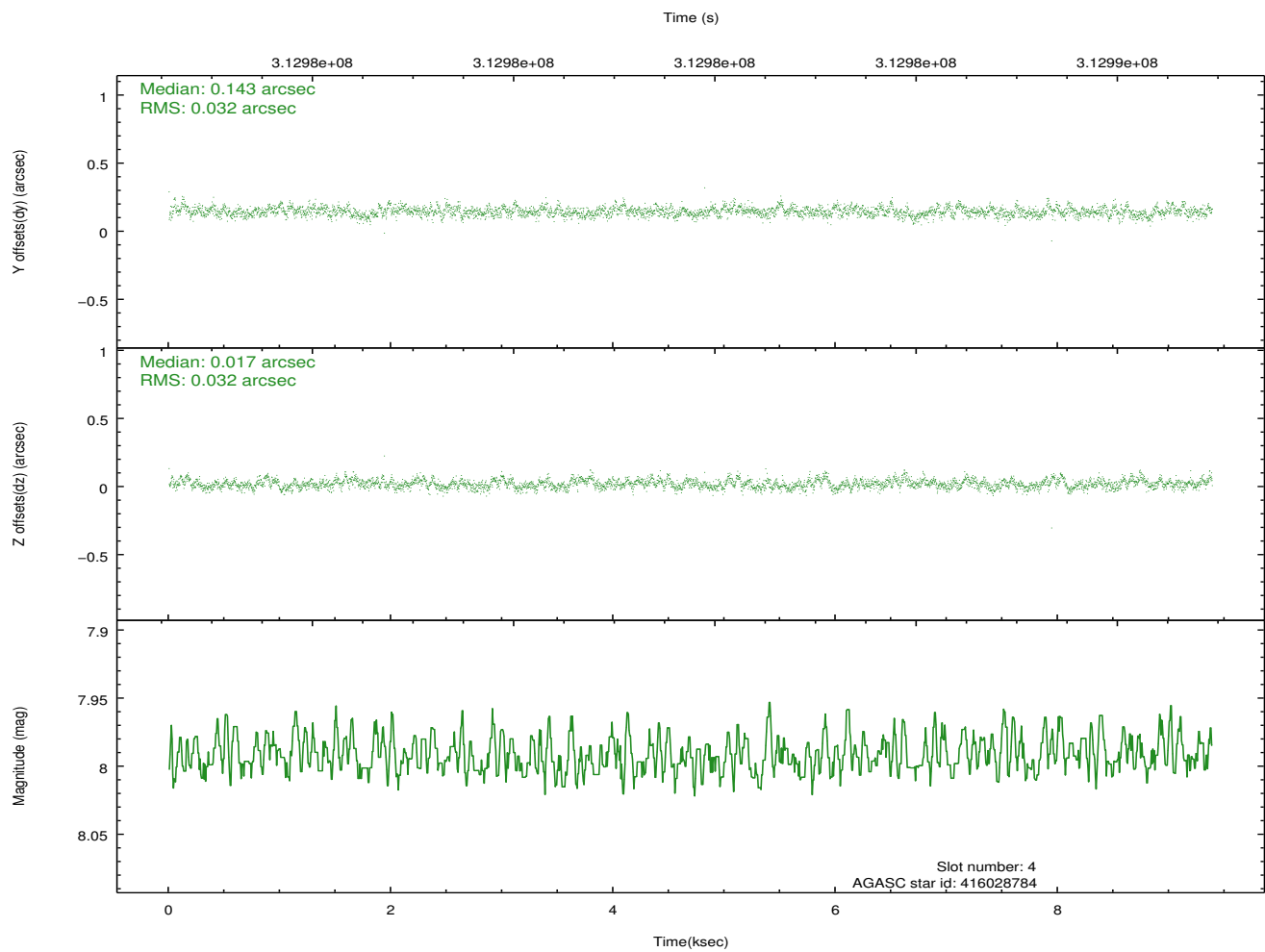
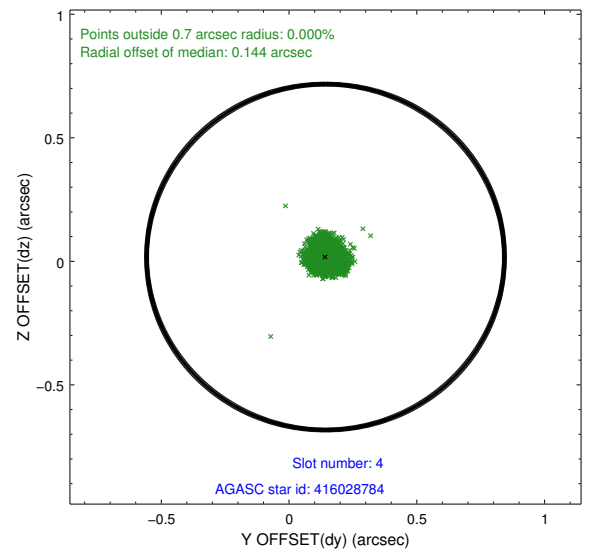
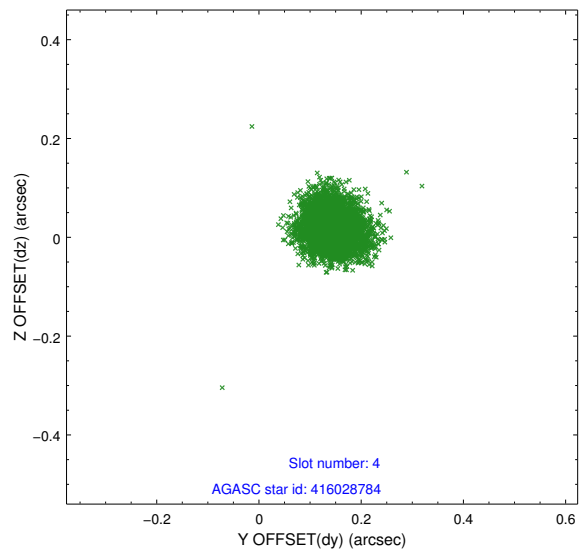
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2289	0.071	-0.008	0.009	0.013	0.000000	0.000000	925.94	-838.27
1	FID	ACIS-I-2	7.14	2290	-0.052	-0.040	0.015	0.028	0.000000	0.000000	-767.96	-845.09
2	FID	ACIS-I-5	7.22	2290	-0.112	0.119	0.012	0.020	0.000000	0.000000	-1822.85	1058.94
3	GUIDE	414319880	7.19	4580	-0.152	-0.165	0.063	0.107	309.495433	42.845641	-1914.00	511.32
4	GUIDE	416028784	7.99	4577	0.143	0.017	0.047	0.077	310.446946	42.008694	1989.19	1001.14
5	GUIDE	414322040	8.08	4576	-0.073	0.137	0.052	0.086	309.251919	42.770338	-2038.45	-176.05
6	GUIDE	416031440	7.69	4579	-0.022	-0.028	0.061	0.097	310.484743	42.524801	476.03	2084.77
7	GUIDE	416029472	8.54	4577	0.098	0.037	0.057	0.094	310.573870	41.936611	2391.03	1149.10

2.4 Star Slots

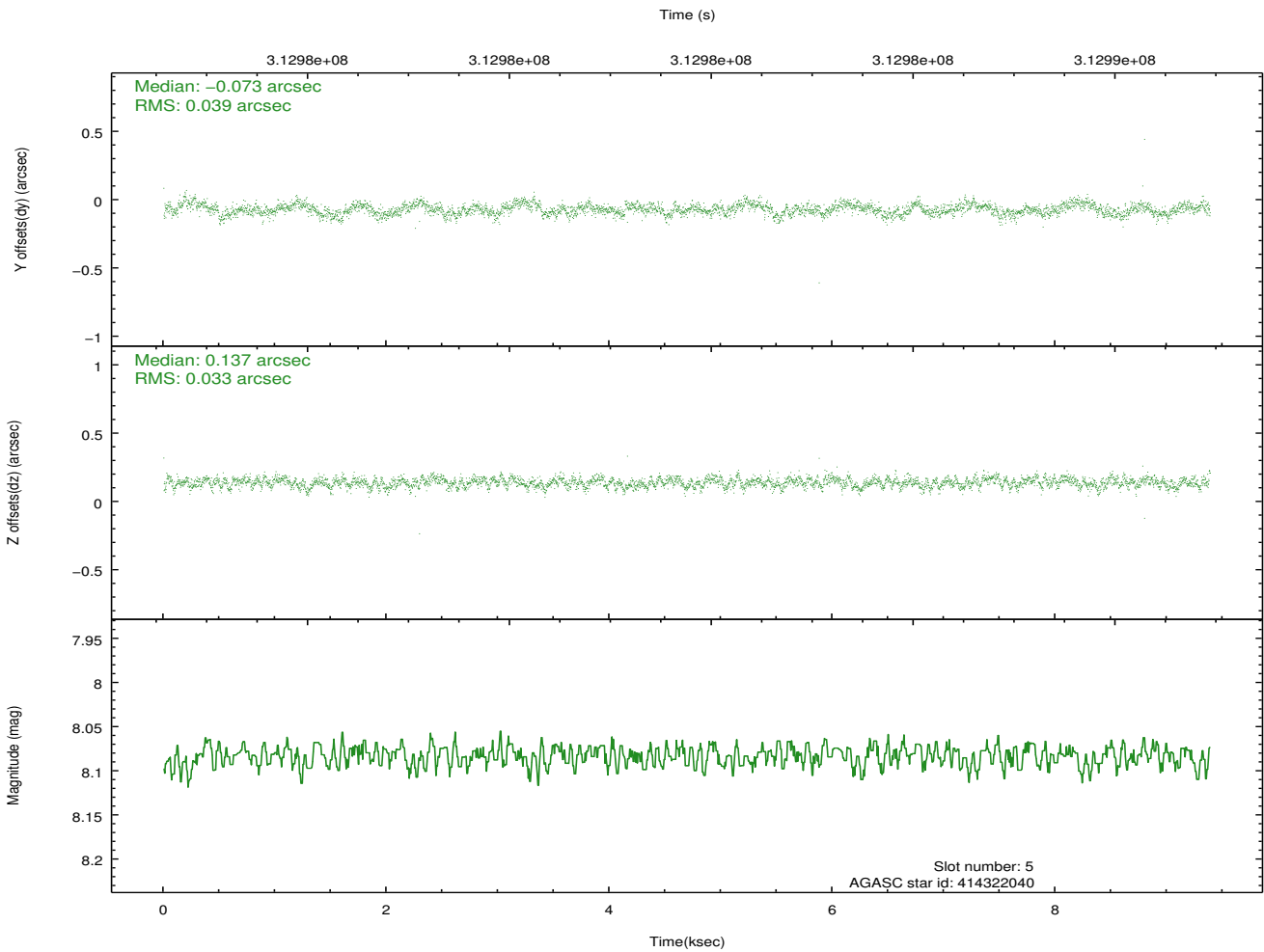
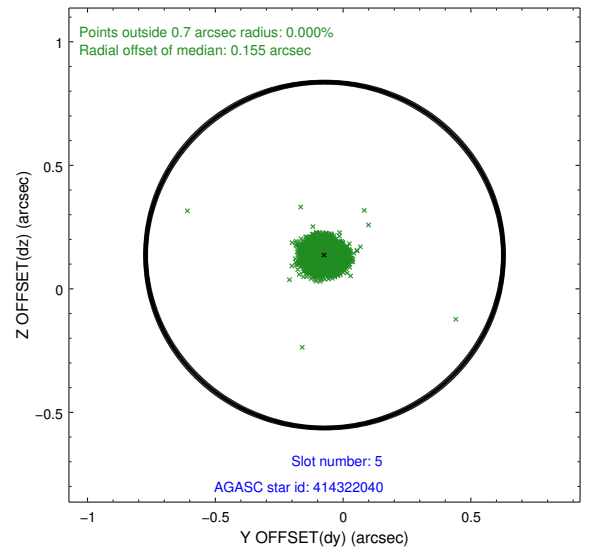
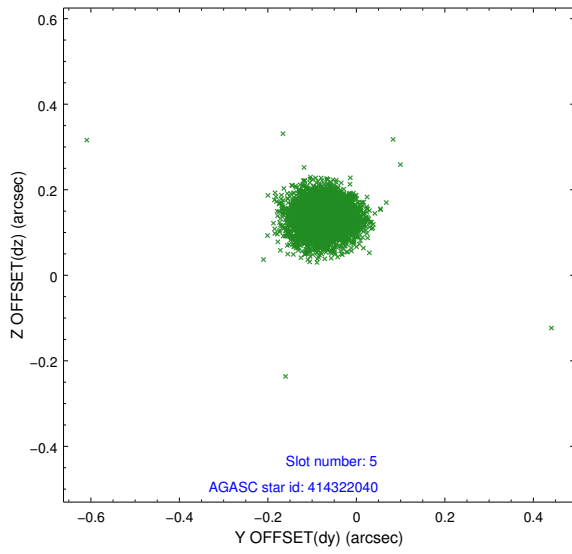
2.4.1 Slot 3



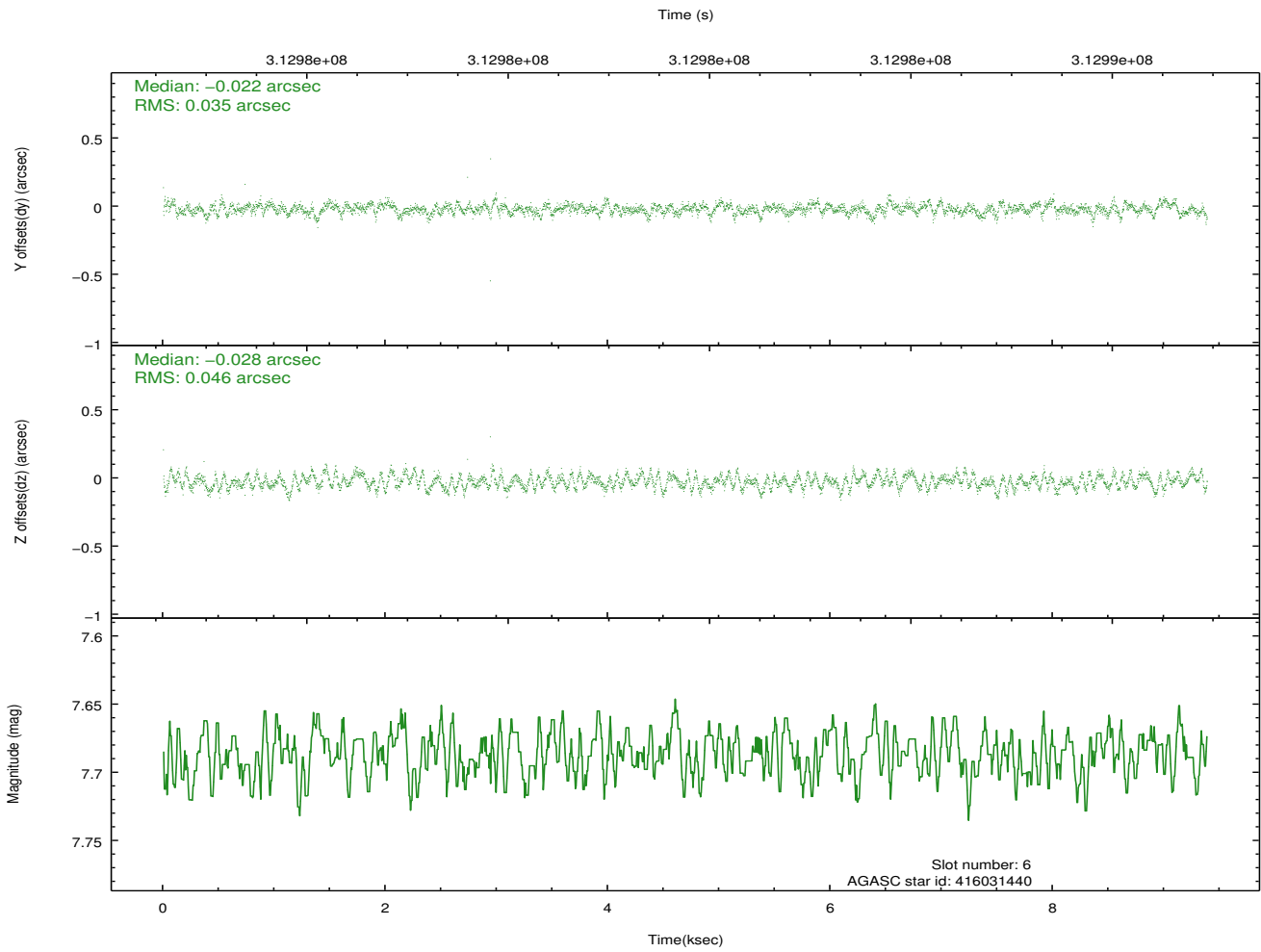
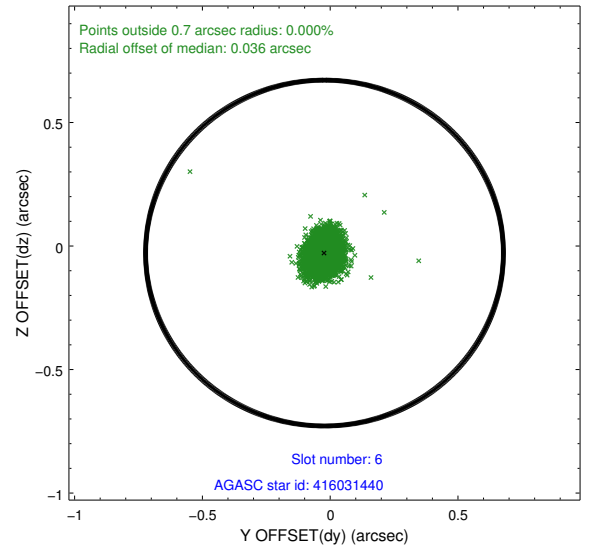
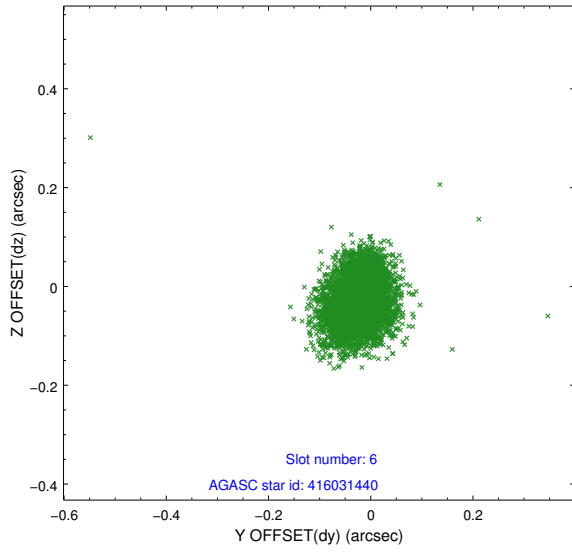
2.4.2 Slot 4



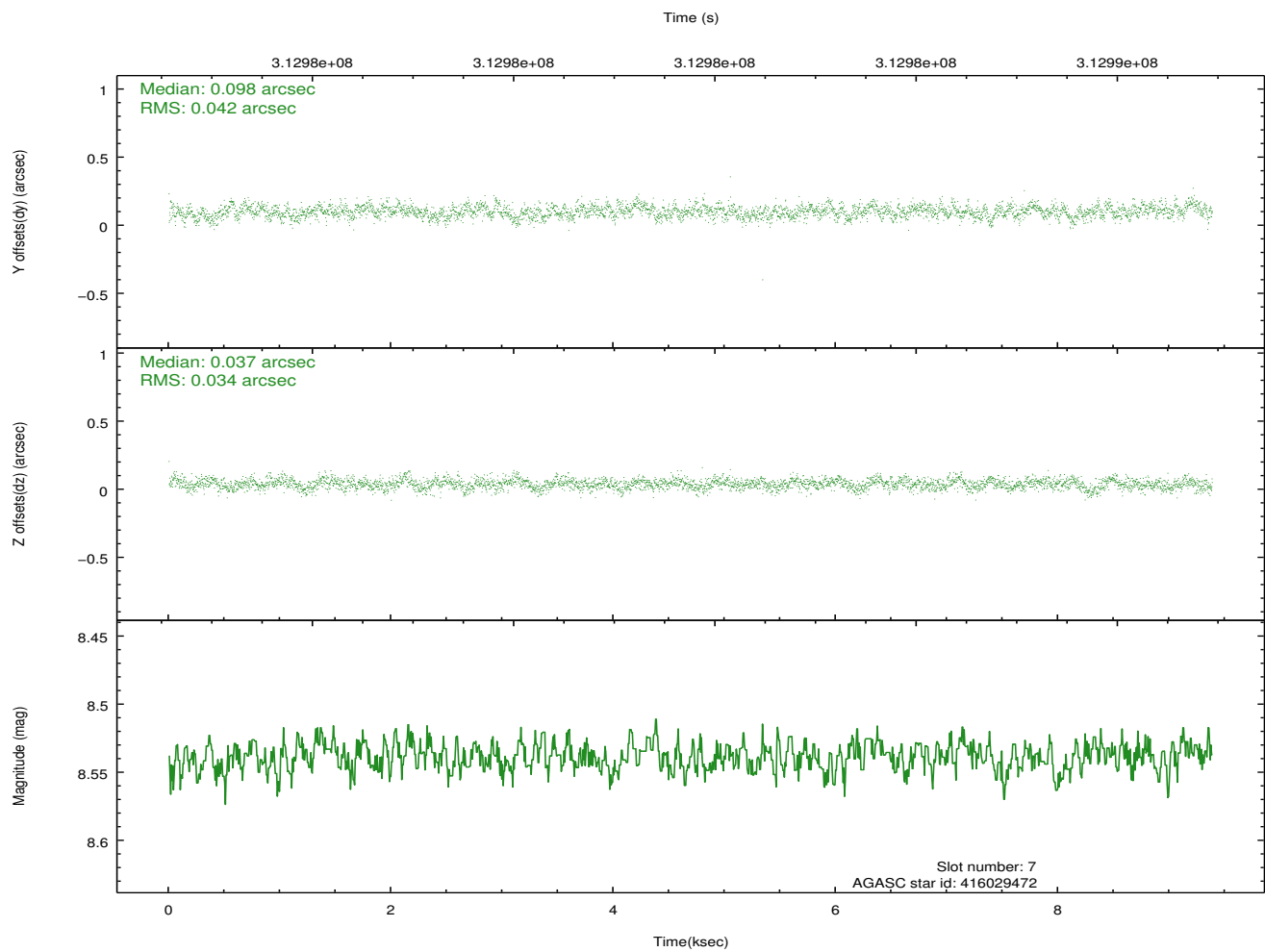
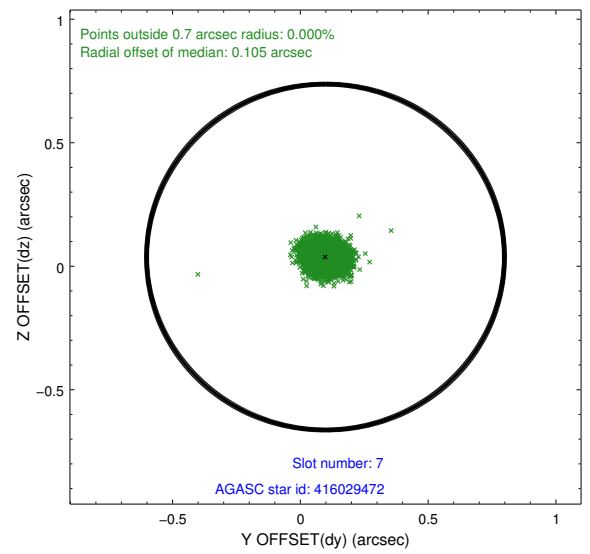
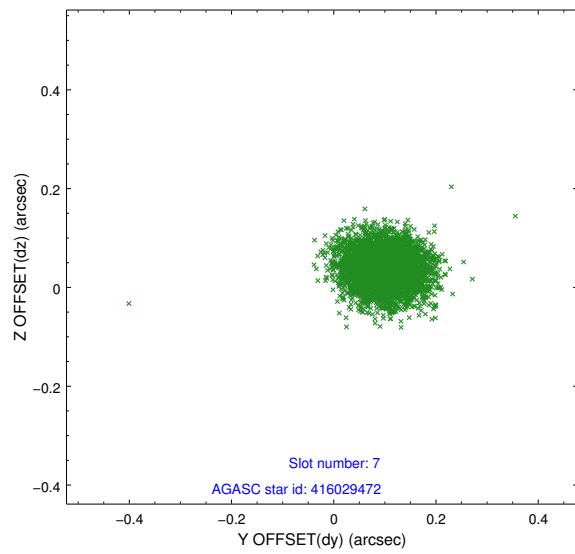
2.4.3 Slot 5



2.4.4 Slot 6

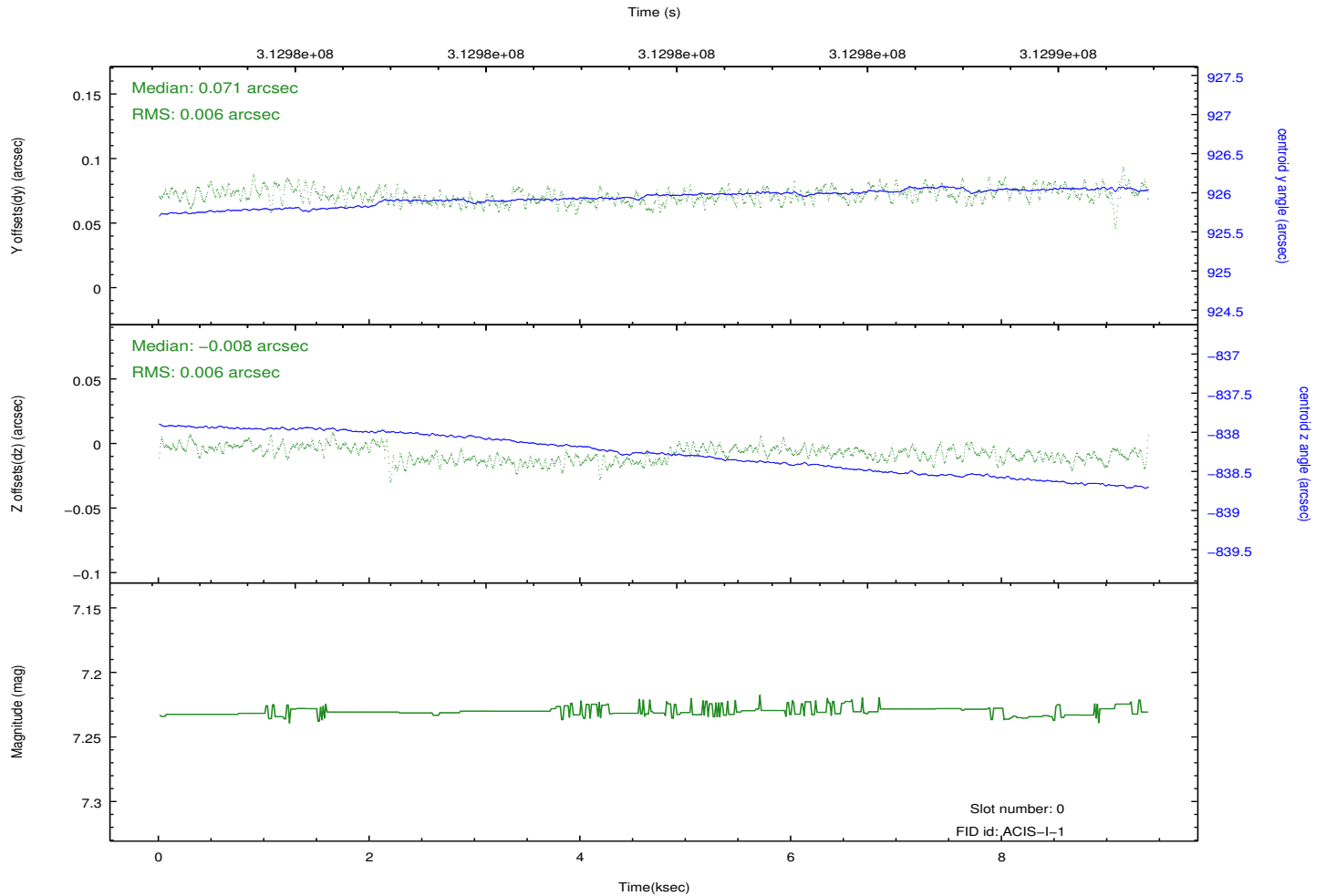
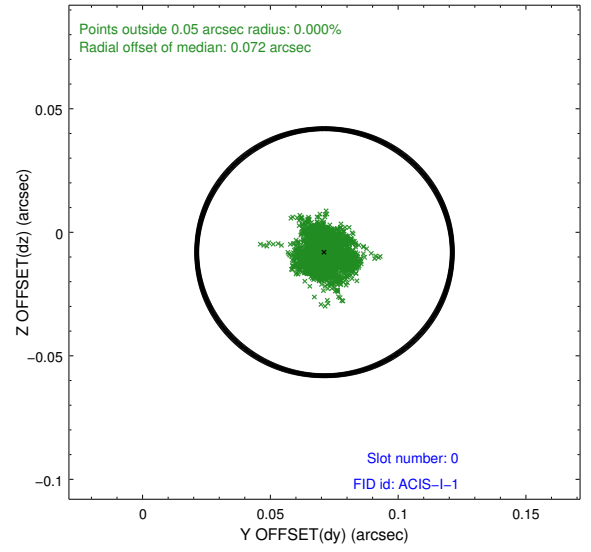
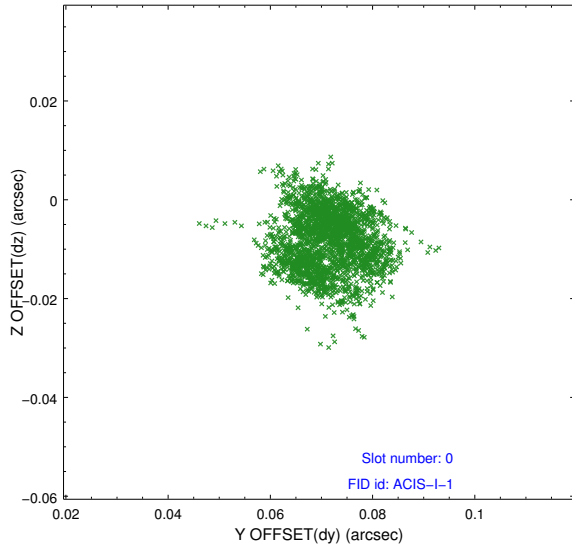


2.4.5 Slot 7

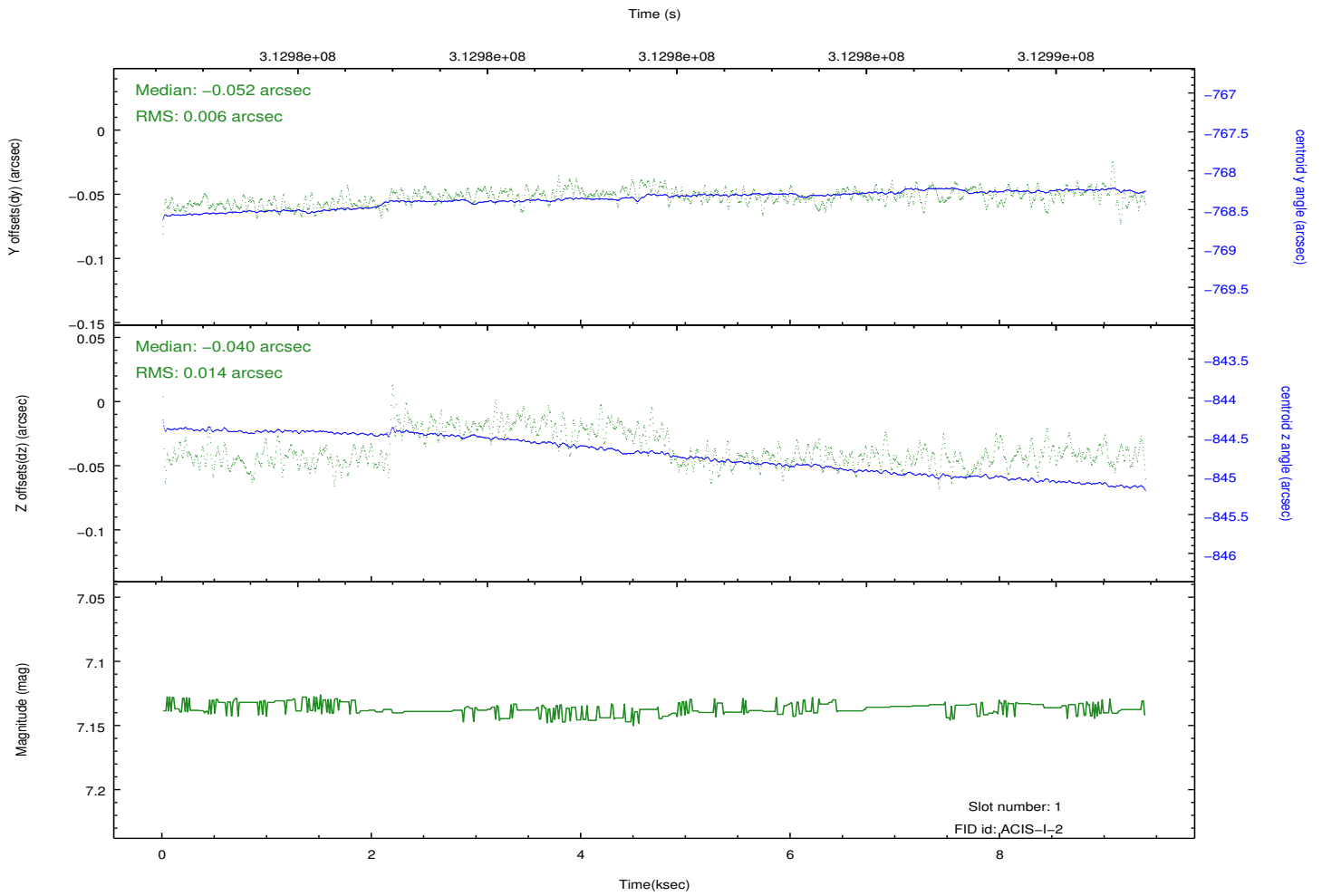
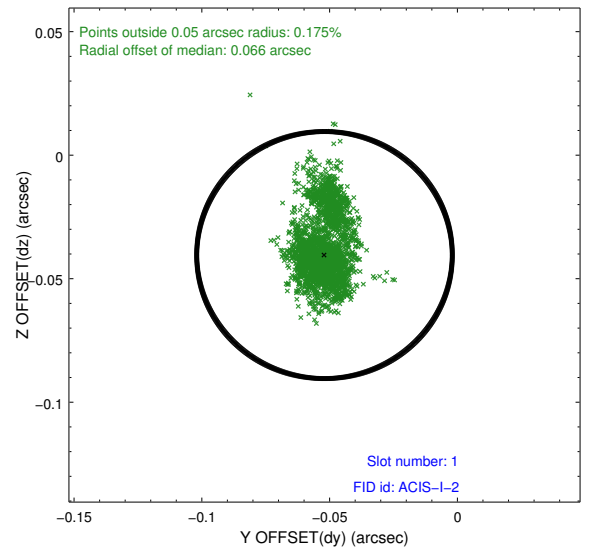
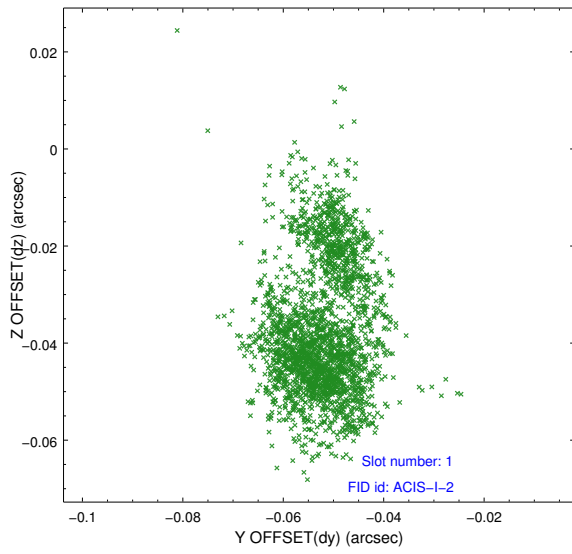


2.5 FID Slots

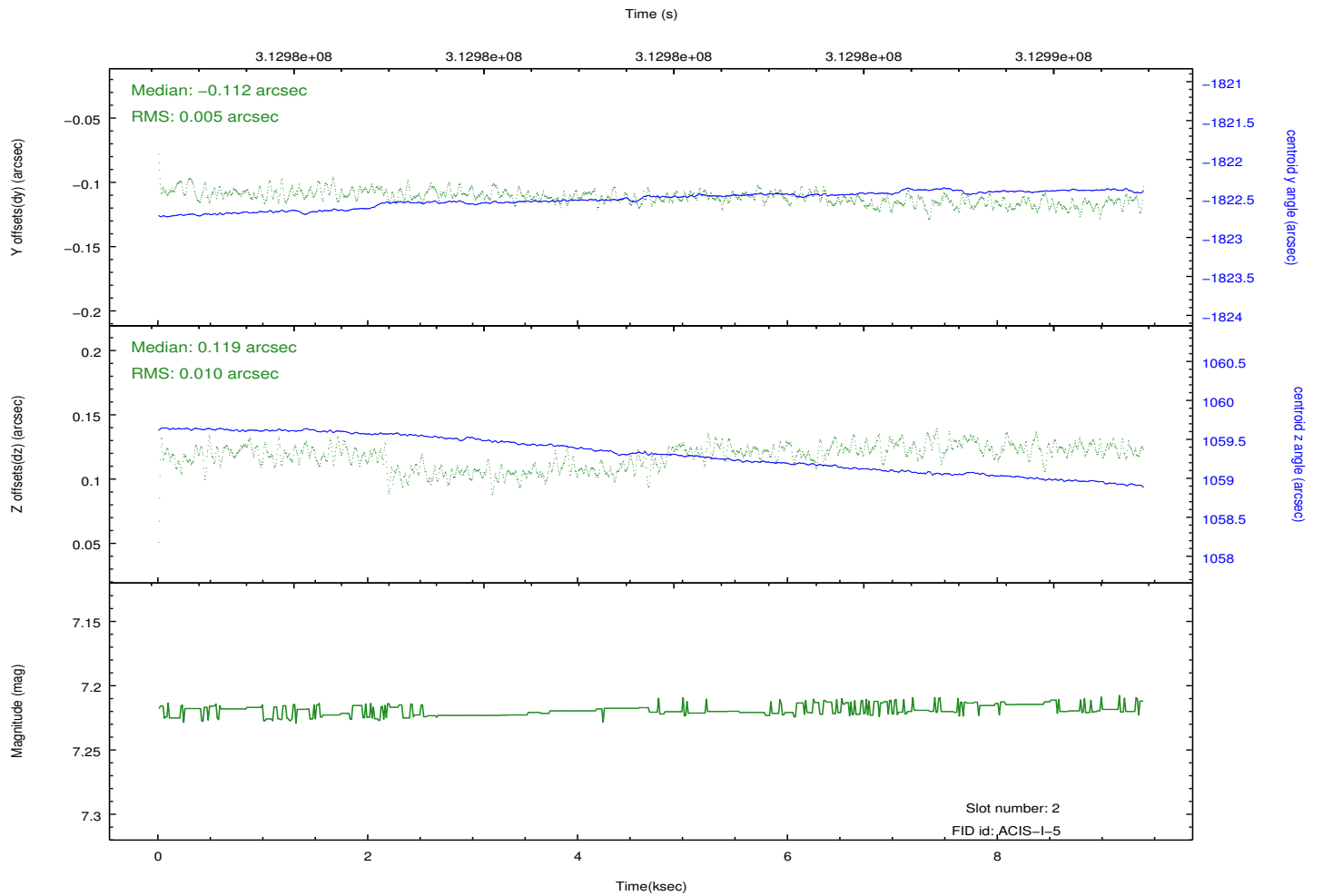
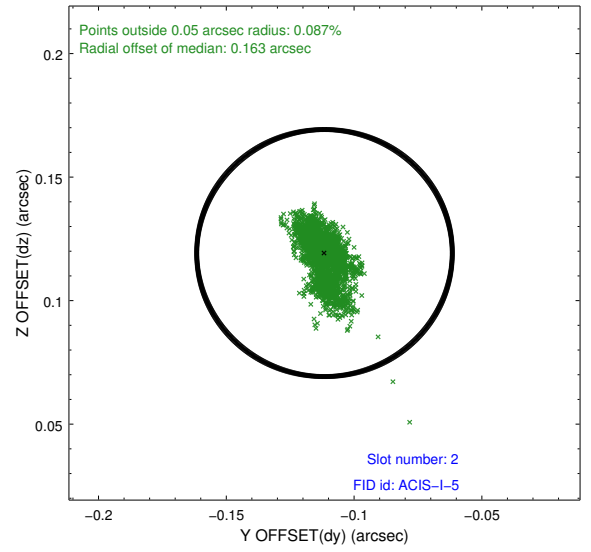
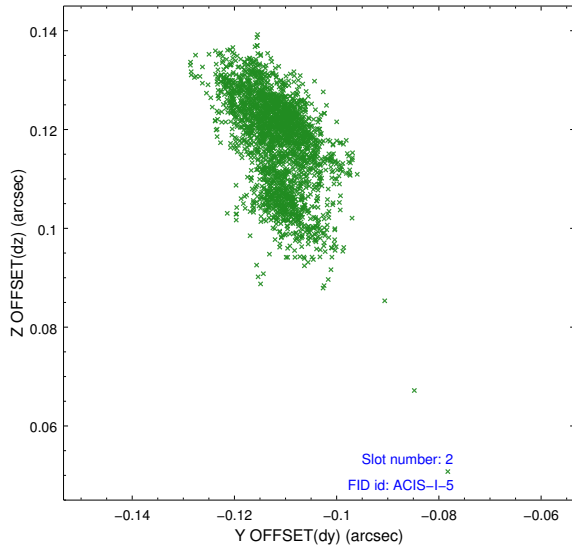
2.5.1 Slot 0



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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.26079996

A.2 Comments