

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1590 - L2 Version 3
Chandra X-Ray Center

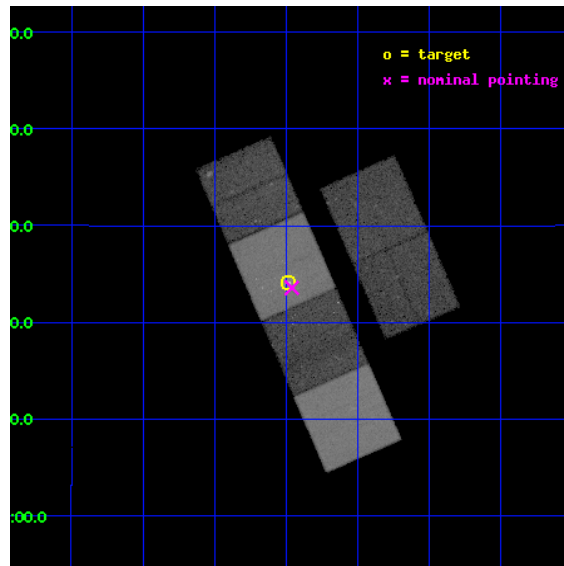
L2 Processing Date : Sep 21 2012

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

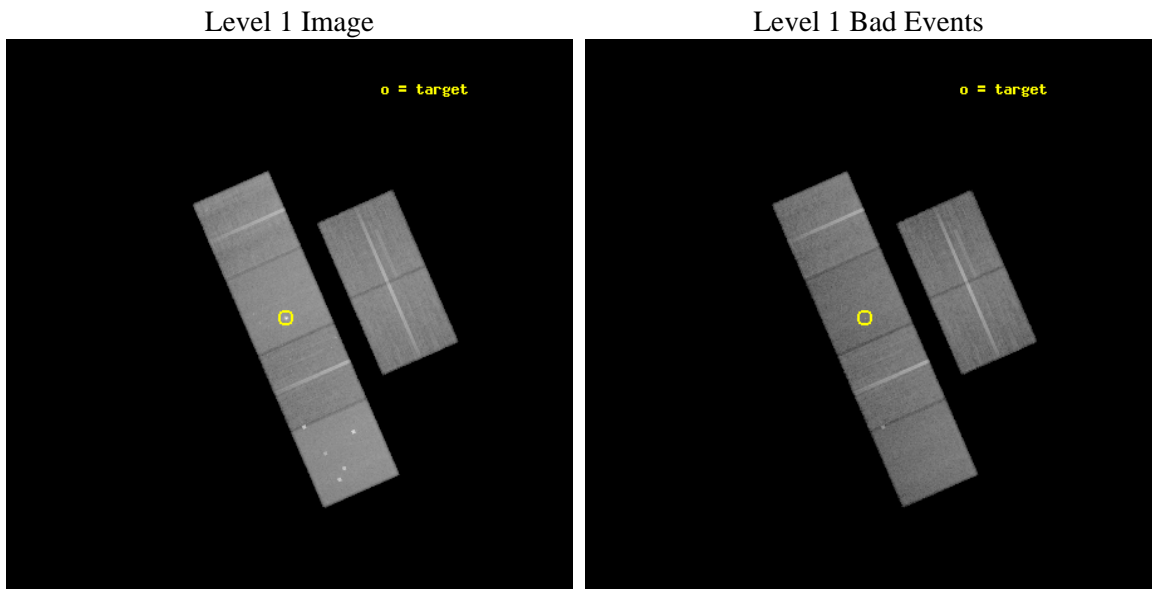
seq_num	700206	Sequence number
obs_id	1590	Observation id
title	THE EXCEPTIONAL X-RAY PROPERTIES OF THE ULIRG NGC 6240	Proposal ti
observer	Dr. Peter Predehl	Principal investigator
object	NGC 6240	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	253.245417	Observer's specified target RA [deg]
dec_targ	2.400944	Observer's specified target Dec [deg]
ra_nom	253.23997240455	Nominal RA [deg]
dec_nom	2.3928491266612	Nominal Dec [deg]
roll_nom	246.37749622515	Nominal Roll [deg]
revision	3	Processing version of data
ontime	37158.400034592	Sum of GTIs [s]
livetime	36687.877999251	Livetime [s]
ontime2	37158.400034592	Sum of GTIs [s]
ontime3	37158.400034592	Sum of GTIs [s]
ontime5	37158.400034592	Sum of GTIs [s]
ontime6	37158.400034592	Sum of GTIs [s]
ontime7	37158.400034592	Sum of GTIs [s]
ontime8	37158.400034592	Sum of GTIs [s]
l2events	409905	Number of level 2 events



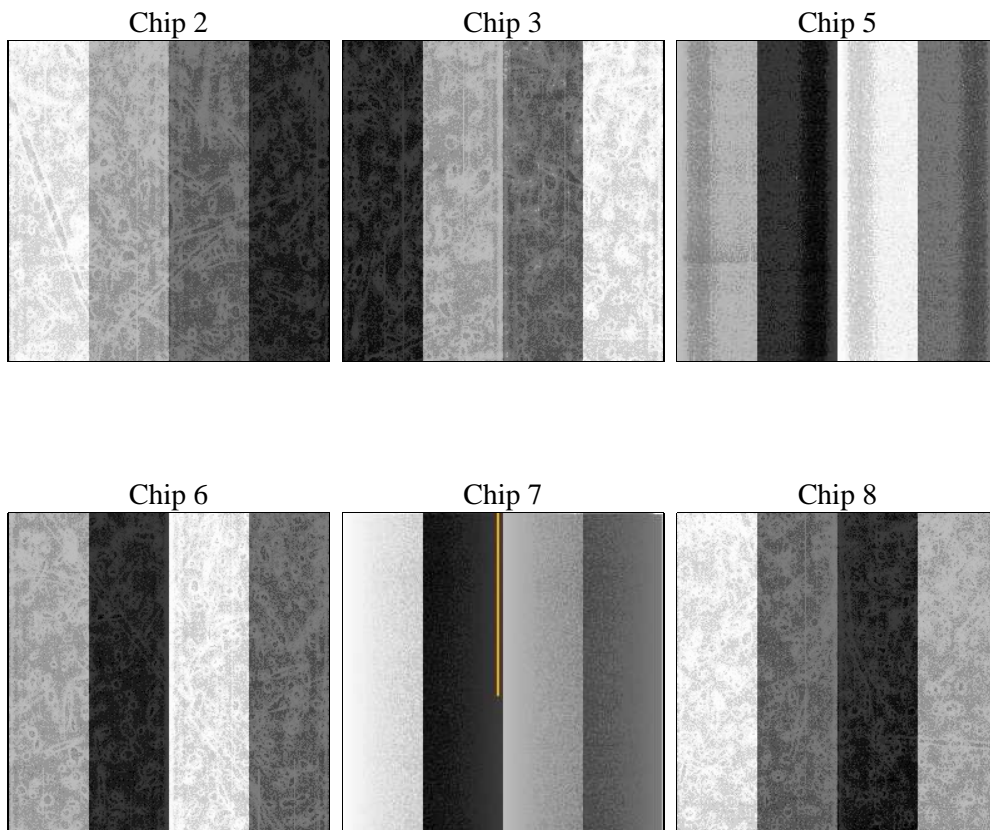
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	37158.400034592	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	37158.400034592	Sum of GTIs [s]
date	2012-09-21T12:06:23	Date and time of file creation	ontime3	37158.400034592	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	37158.400034592	Sum of GTIs [s]
			ontime6	37158.400034592	Sum of GTIs [s]
			ontime7	37158.400034592	Sum of GTIs [s]
			ontime8	37158.400034592	Sum of GTIs [s]
			l1events	1786859	Number of level 1 events

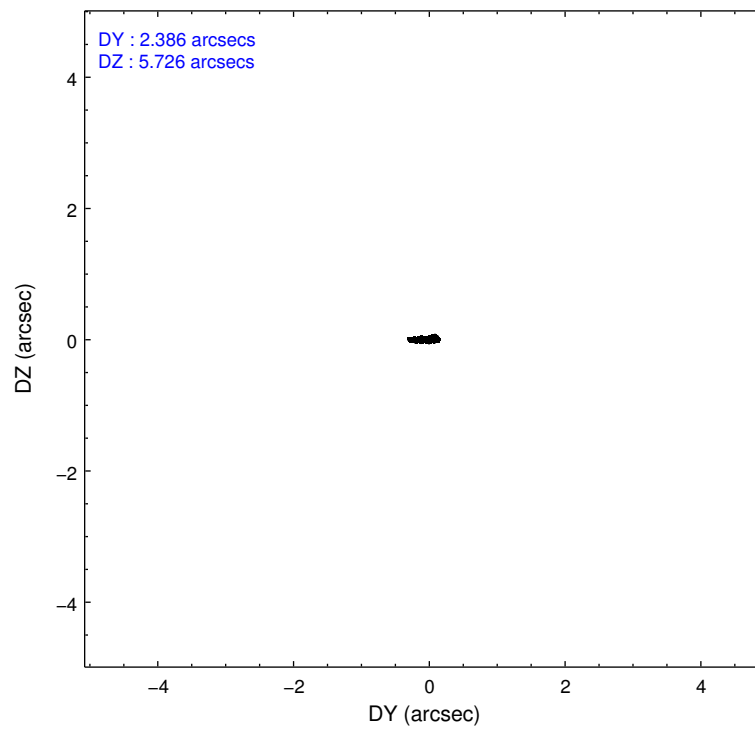
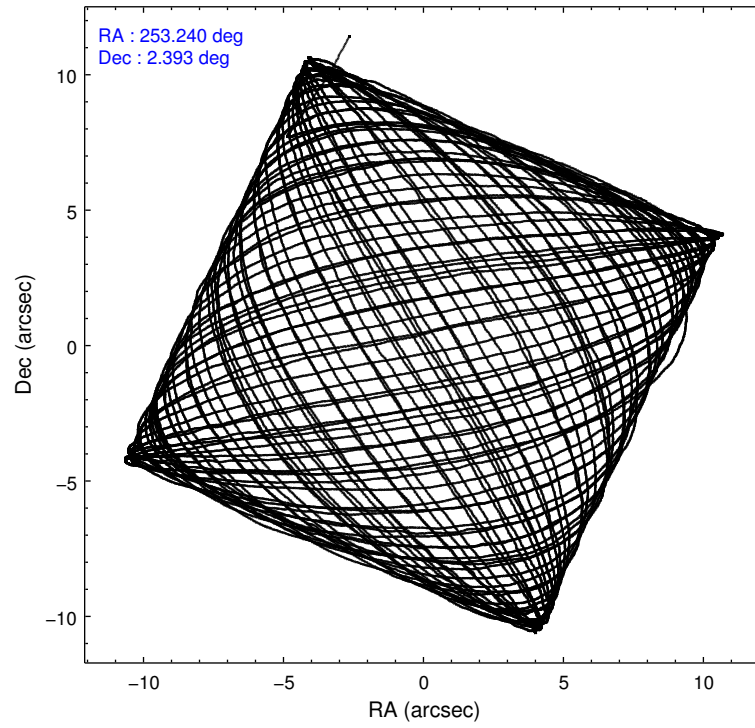
2.1.4 Events

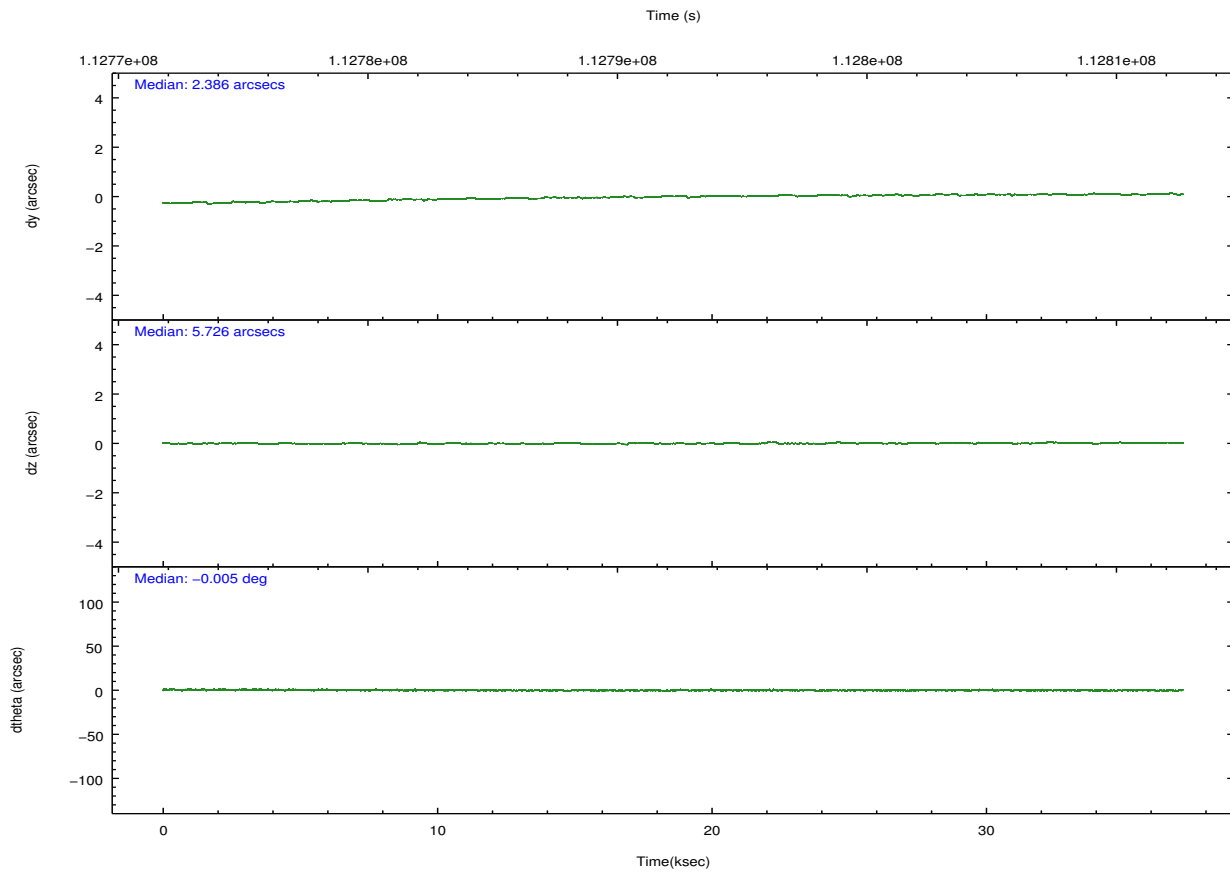
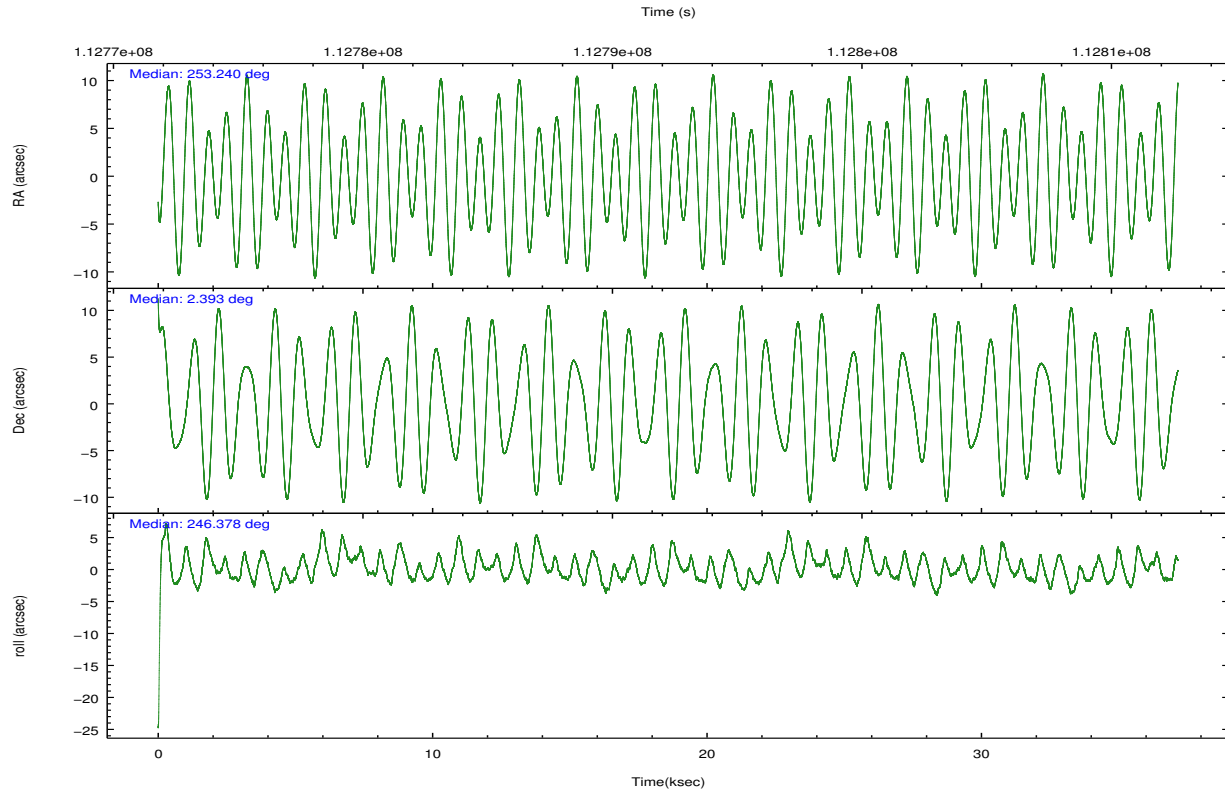
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	258995	246151	366911	259572	337189	318041	grade 0 events	13051	13442	30374	14410	18797	22069
rejected events	229803	216969	190648	227887	187087	252606		5%	5%	8%	5%	5%	6%
rejected %	88%	88%	51%	87%	55%	79%	grade 1 events	112	108	875	126	307	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	6071	5554	47911	5956	30882	14083
								2%	2%	13%	2%	9%	4%
							grade 3 events	2639	2661	7744	2916	14221	6661
								1%	1%	2%	1%	4%	2%
							grade 4 events	2698	2777	7461	2952	14131	6182
								1%	1%	2%	1%	4%	1%
							grade 5 events	8883	9577	26909	10539	30733	13473
								3%	3%	7%	4%	9%	4%
							grade 6 events	4861	4907	83563	5577	72742	16732
								1%	1%	22%	2%	21%	5%
							grade 7 events	220680	207125	162074	217096	155376	238660
								85%	84%	44%	83%	46%	75%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	253.236644	253.2399724045462	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.419924	2.392849126661157	Alternating exposures requested	N	N
[deg] Pointing Roll	246.221020	246.3774962251496	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	112773808.184000	112772662.62719			
Observation start date	2001-07-29T06:02:24	2001-07-29T05:44:22			
[s] Observation end time (MET)	112810808.184000	112811598.79122			
Observation end date	2001-07-29T16:19:04	2001-07-29T16:33:18			
Read mode	TIMED	TIMED			

2.3 Aspect



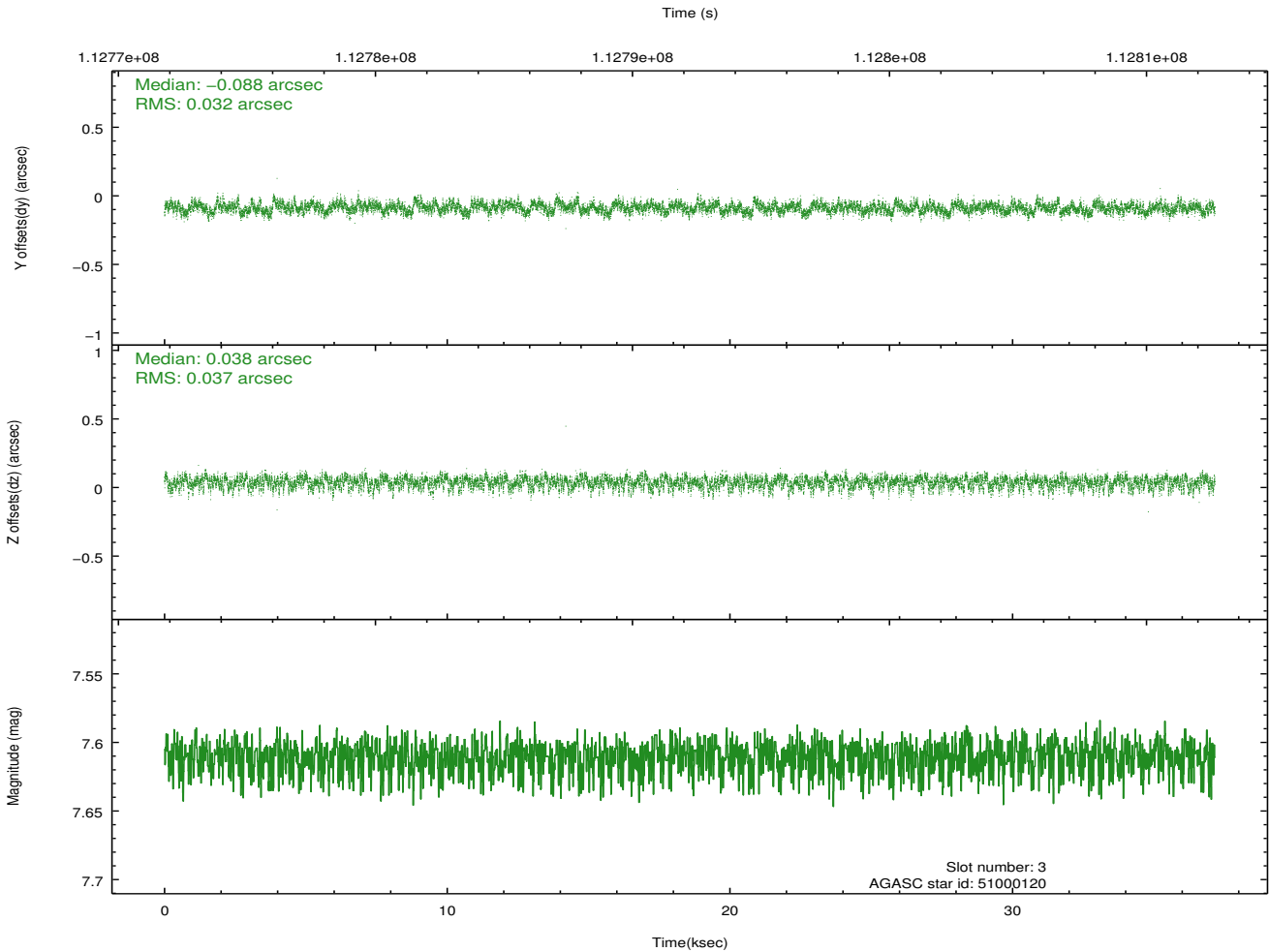
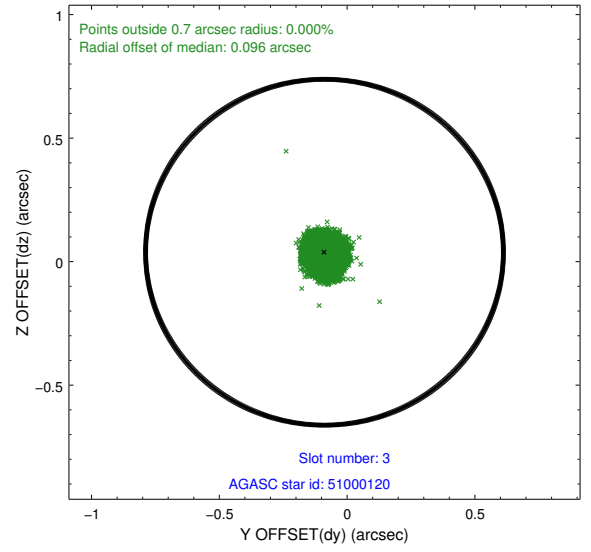
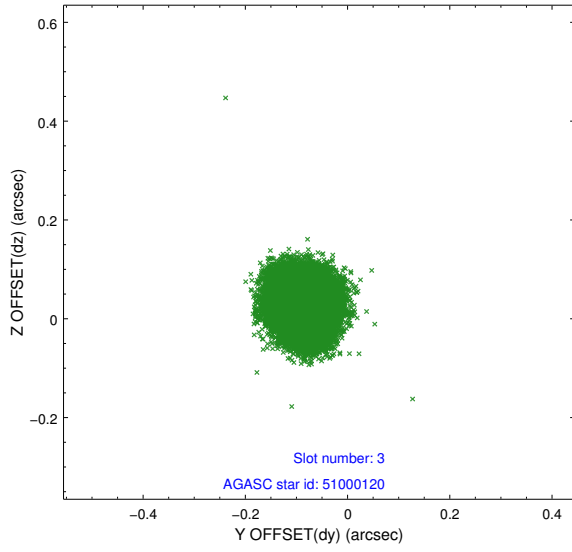


Slot Statistics

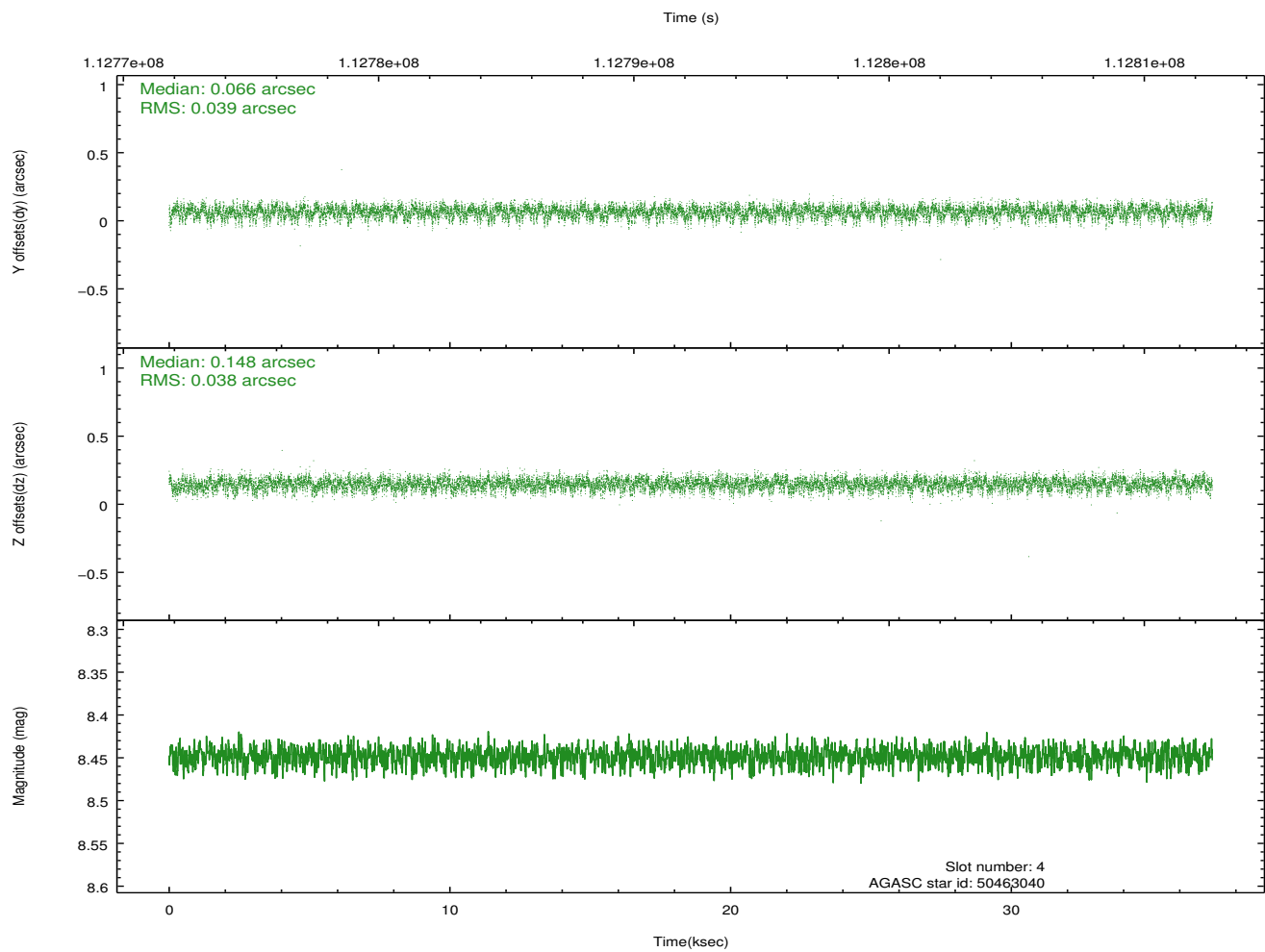
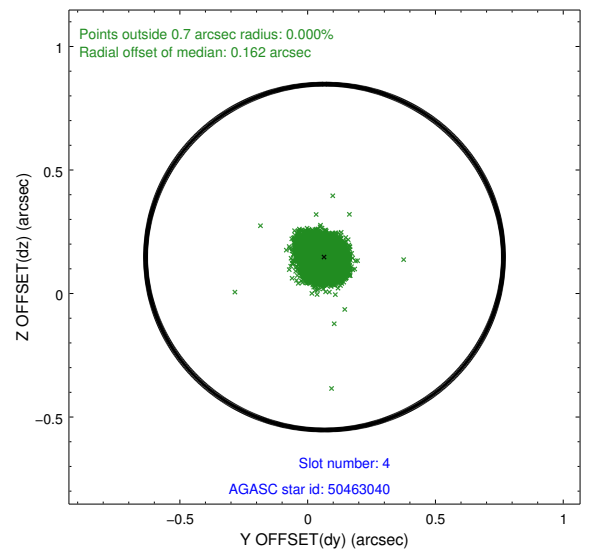
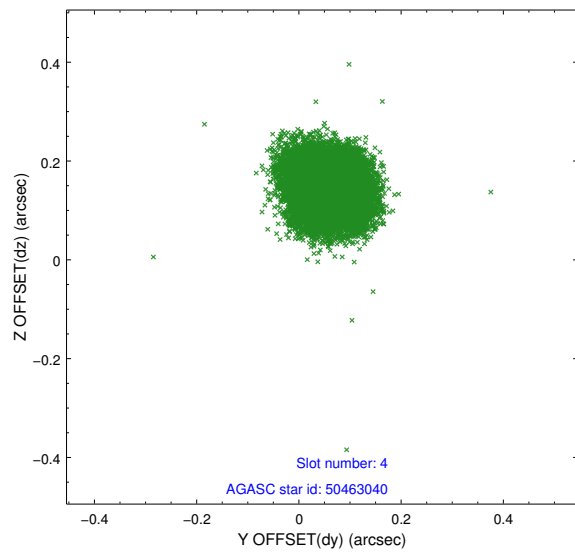
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9064	-0.042	-0.003	0.007	0.011	0.000000	0.000000	-754.97	-1726.88
1	FID	ACIS-S-4	7.20	9062	-0.021	0.021	0.006	0.010	0.000000	0.000000	2158.27	181.67
2	FID	ACIS-S-5	7.24	9062	0.032	-0.009	0.007	0.012	0.000000	0.000000	-1807.75	175.24
3	GUIDE	51000120	7.61	18128	-0.088	0.038	0.053	0.084	253.311844	3.020755	-2088.00	-624.20
4	GUIDE	50463040	8.45	18126	0.066	0.148	0.058	0.094	253.537698	1.853522	1429.63	1814.06
5	GUIDE	50865824	8.87	18124	-0.159	-0.154	0.072	0.112	253.112876	3.039927	-1862.77	-1306.69
6	GUIDE	50987568	8.95	18127	0.020	-0.012	0.066	0.106	253.458665	2.495501	-570.60	621.43
7	GUIDE	50333200	9.04	18005	0.163	-0.018	0.083	0.134	252.978043	1.813597	2373.26	29.05

2.4 Star Slots

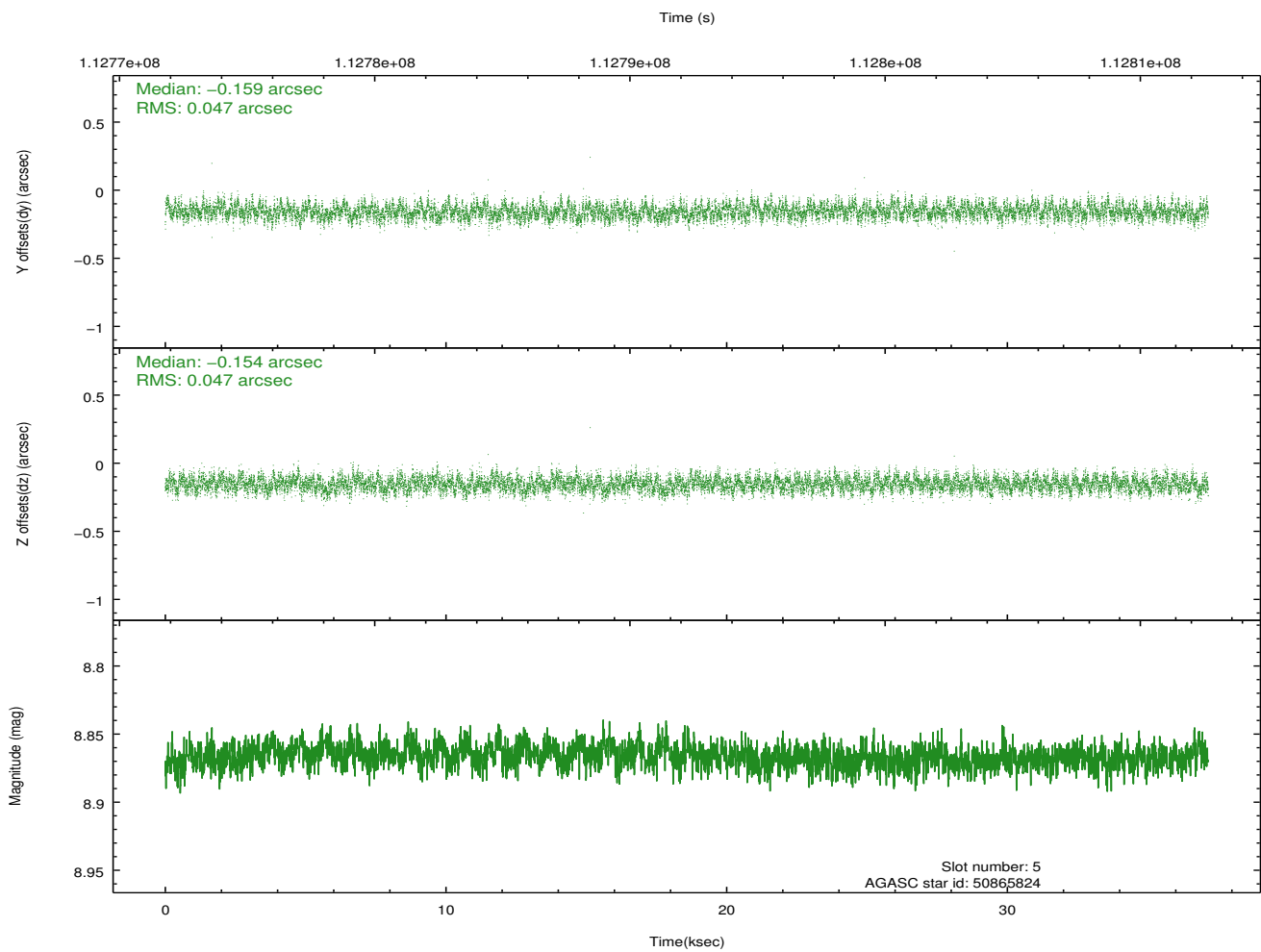
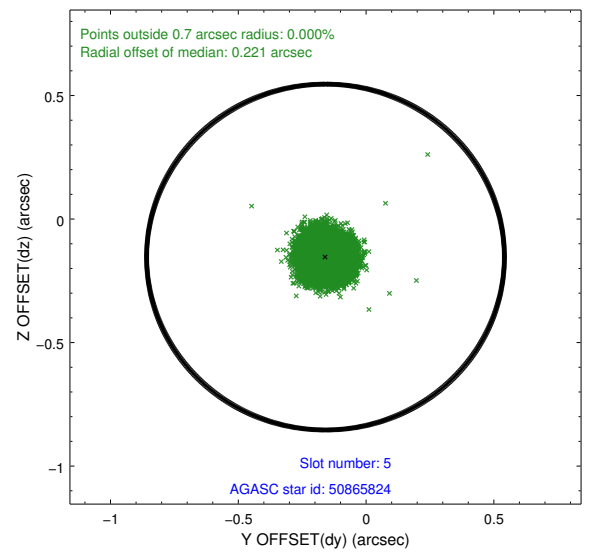
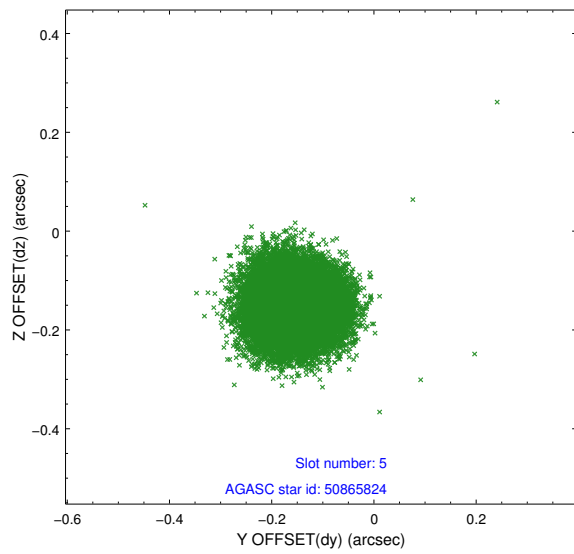
2.4.1 Slot 3



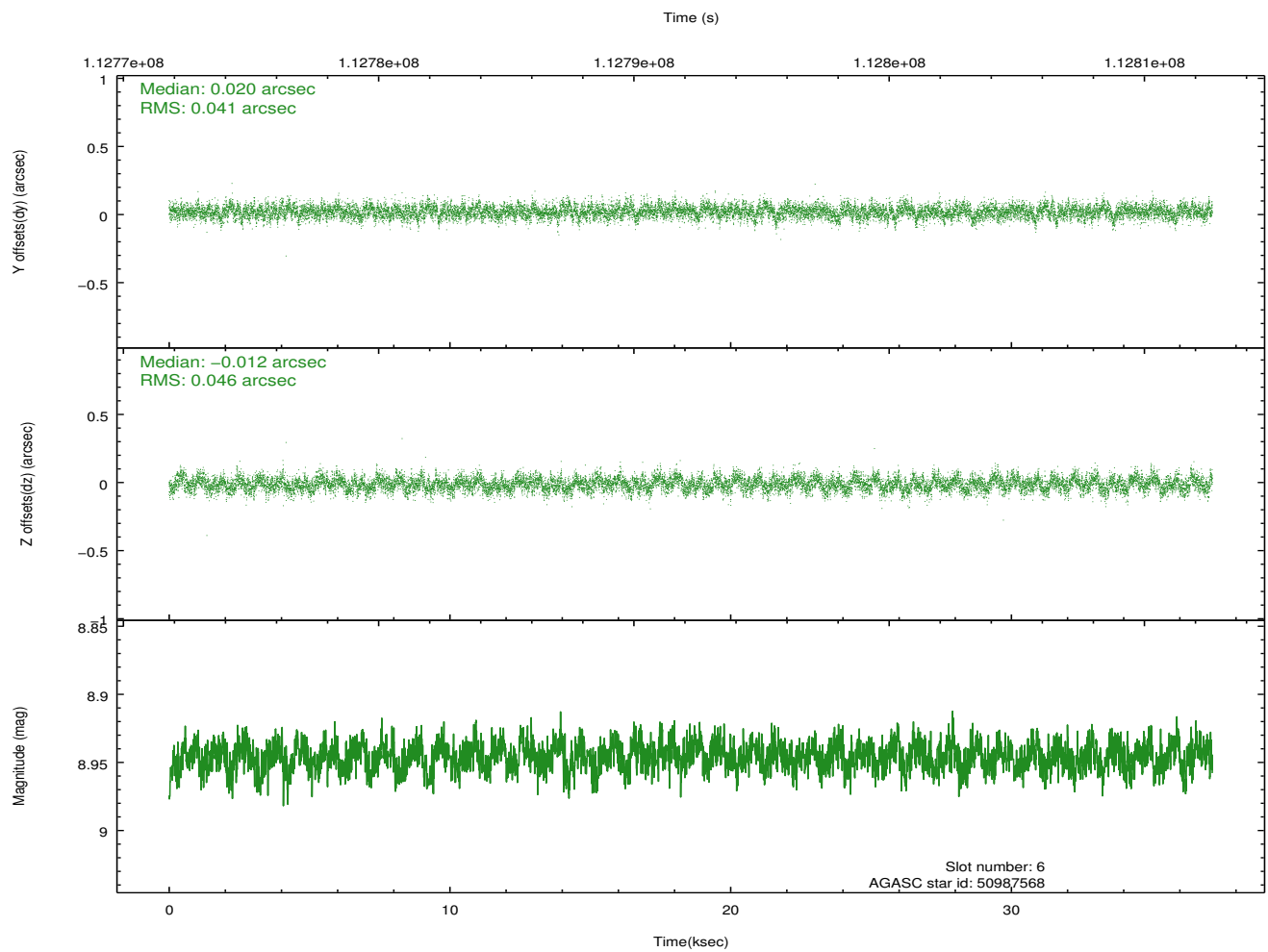
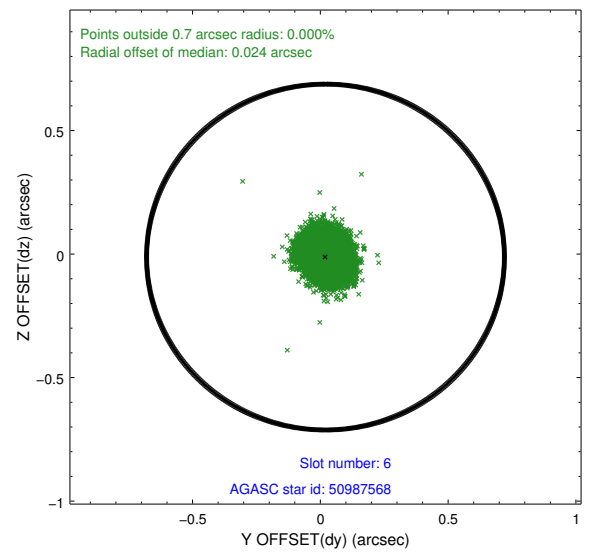
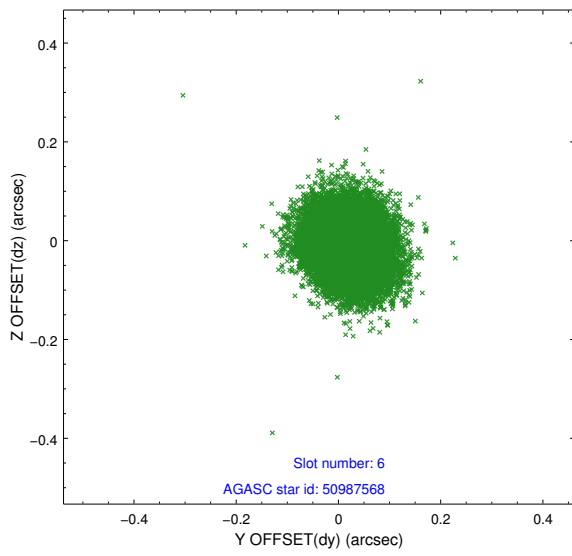
2.4.2 Slot 4



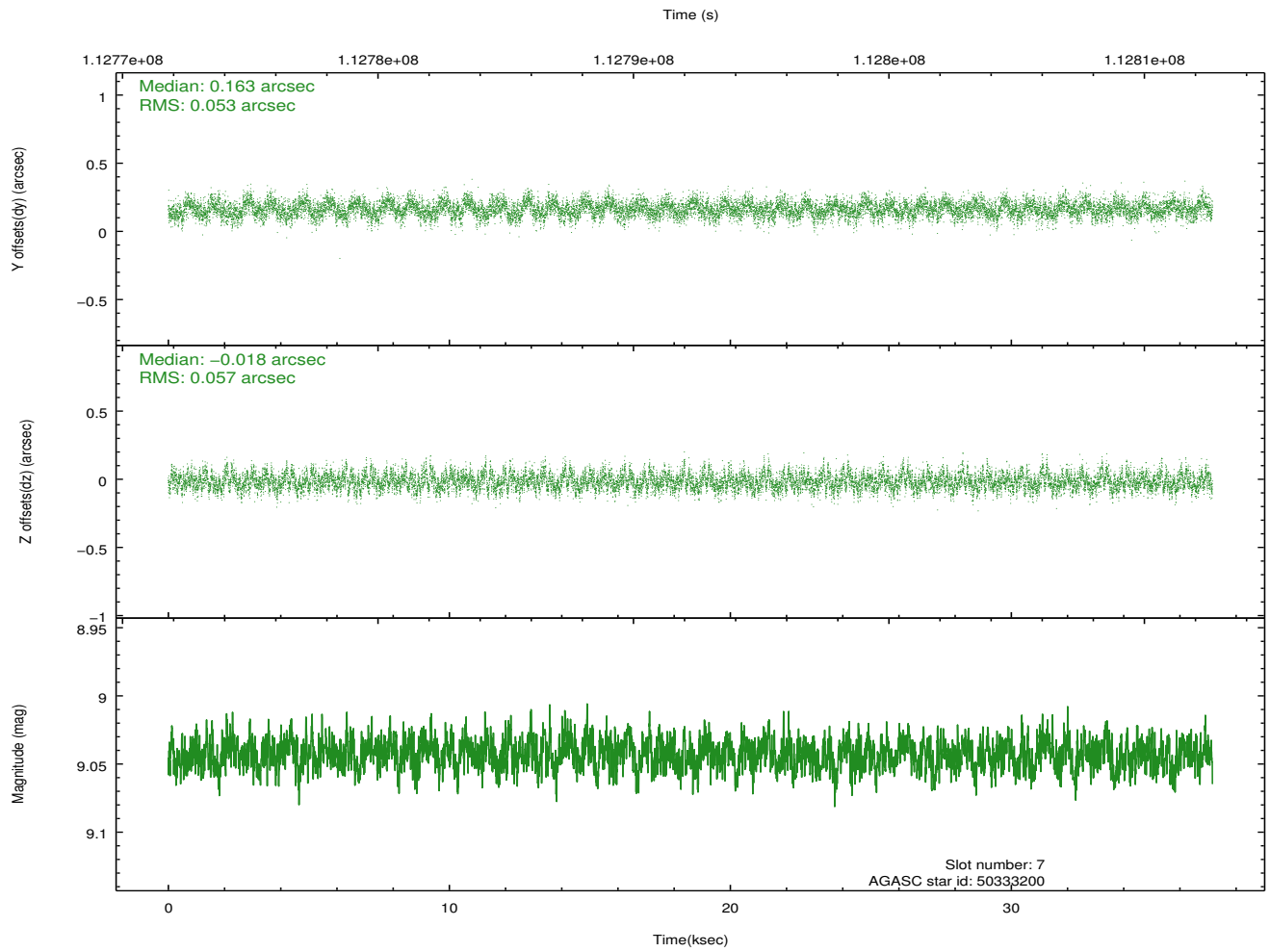
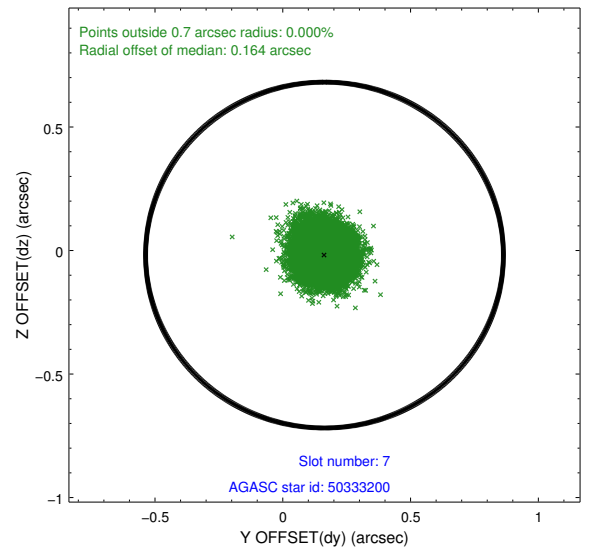
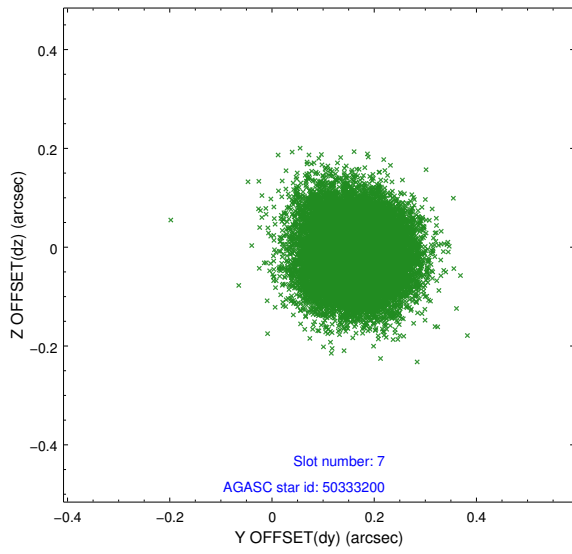
2.4.3 Slot 5



2.4.4 Slot 6

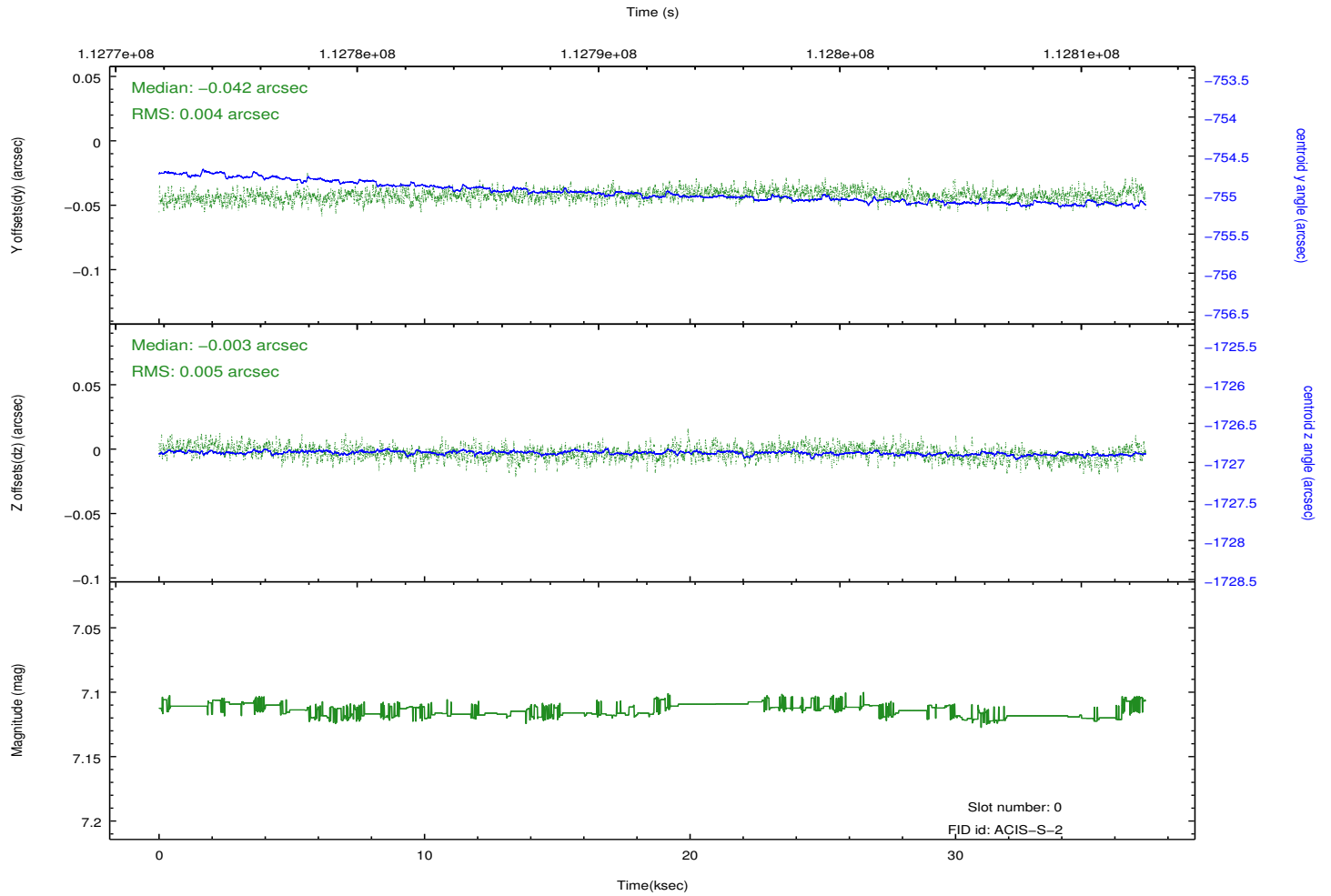
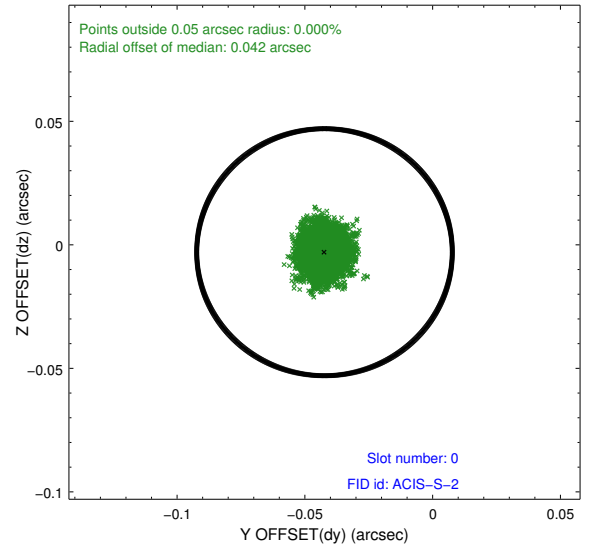
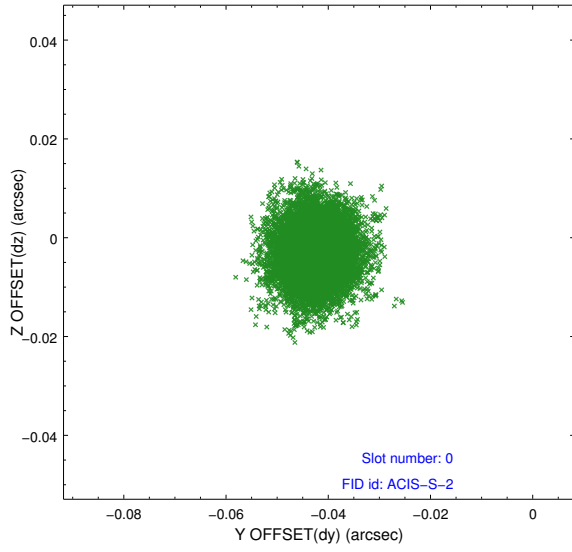


2.4.5 Slot 7

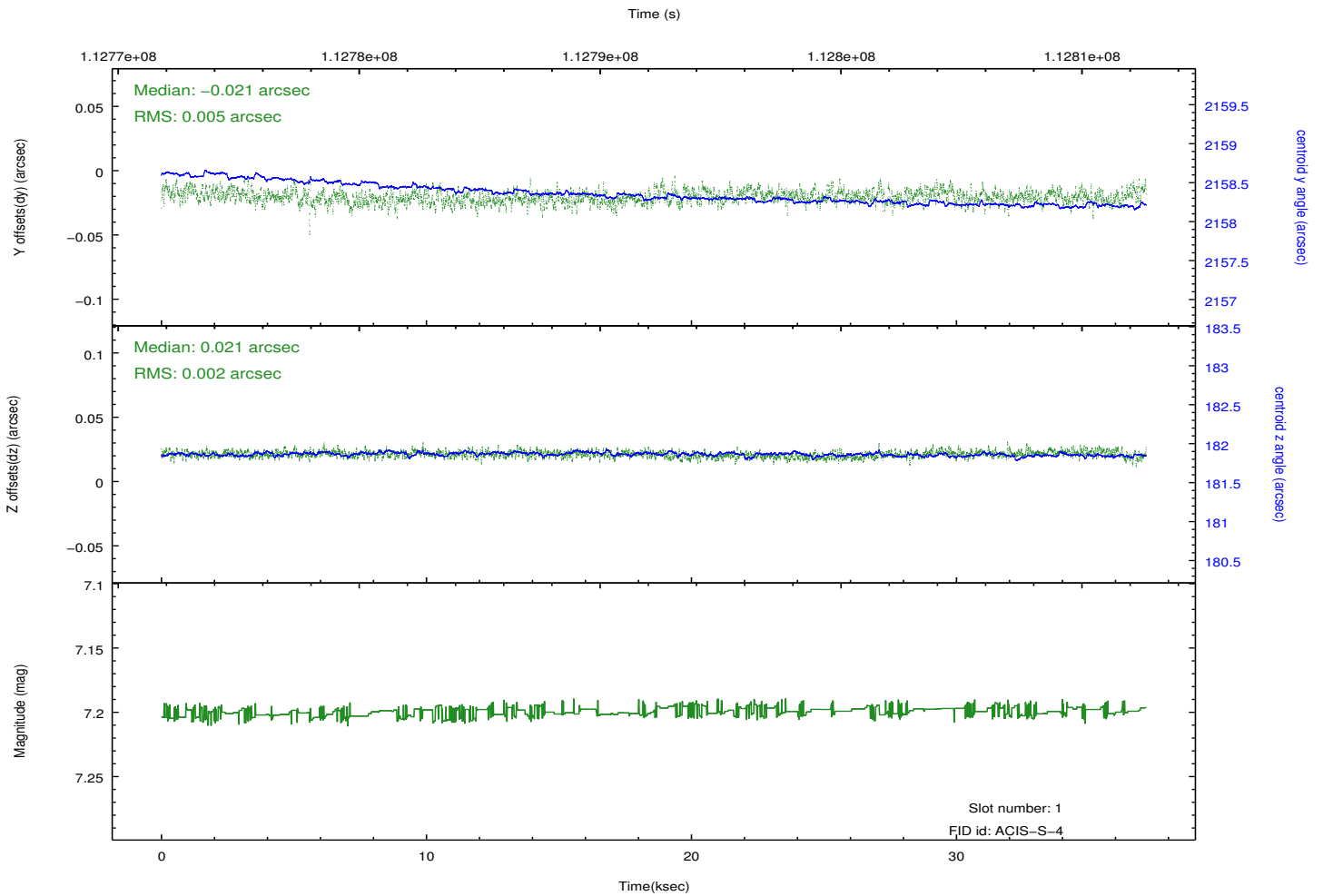
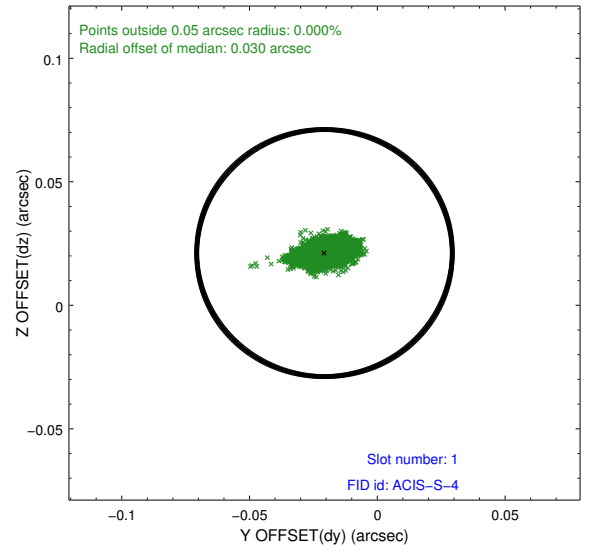
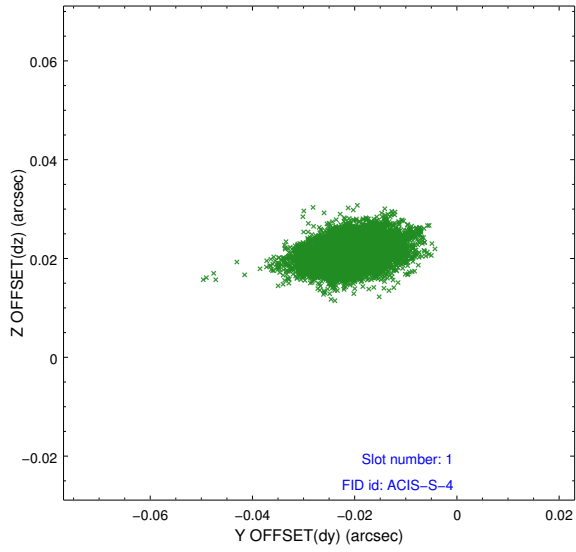


2.5 FID Slots

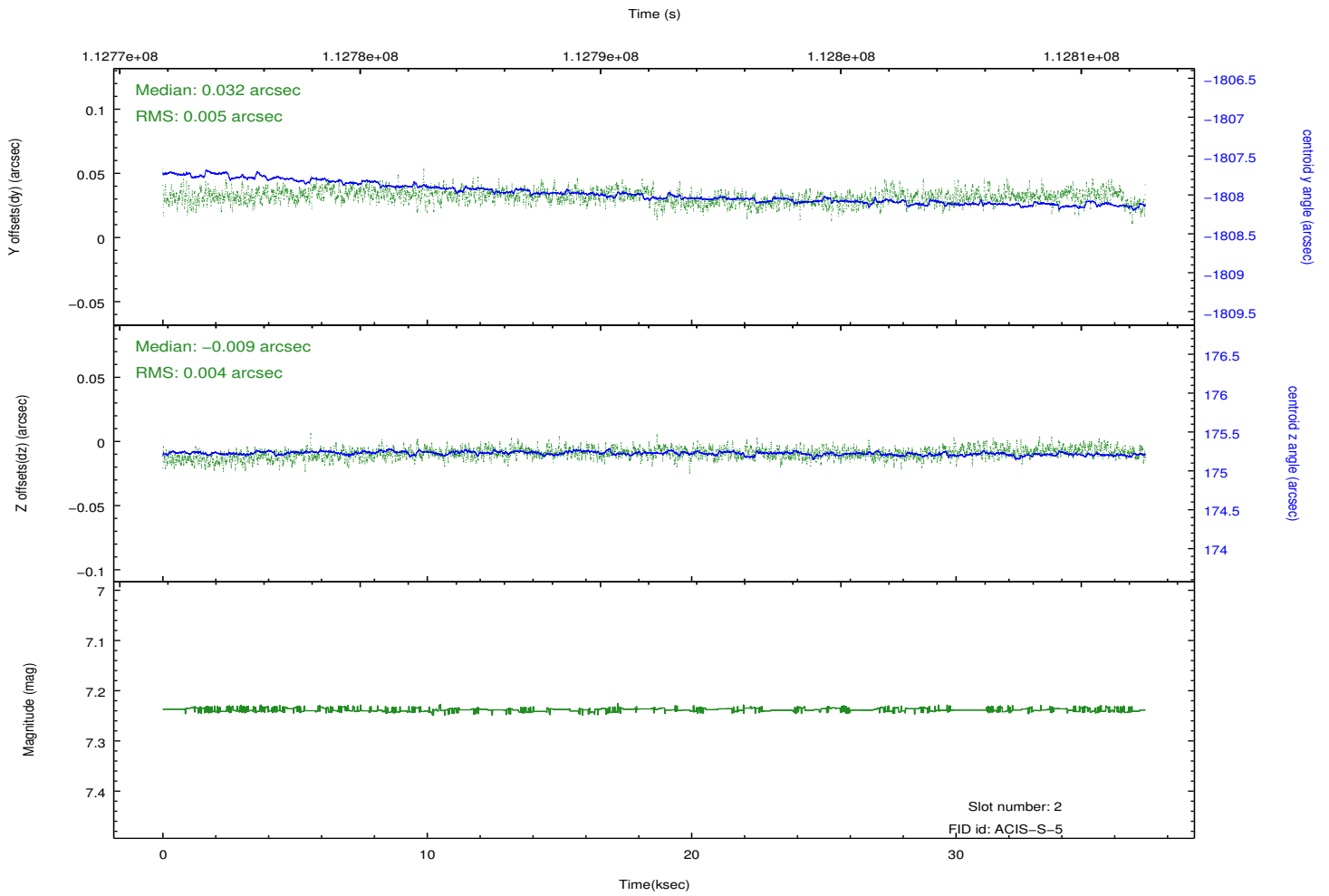
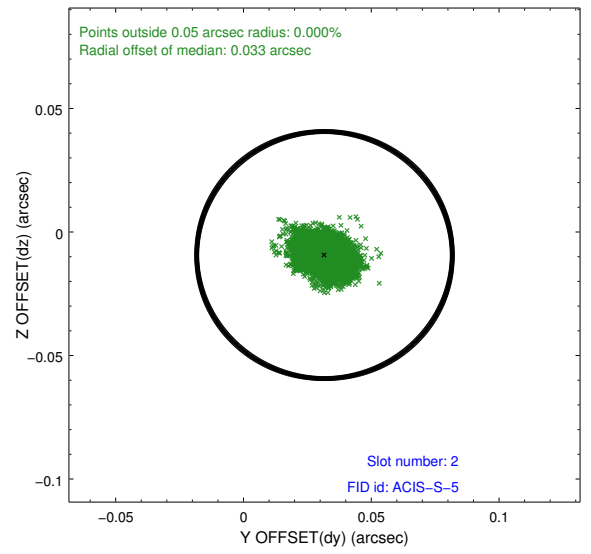
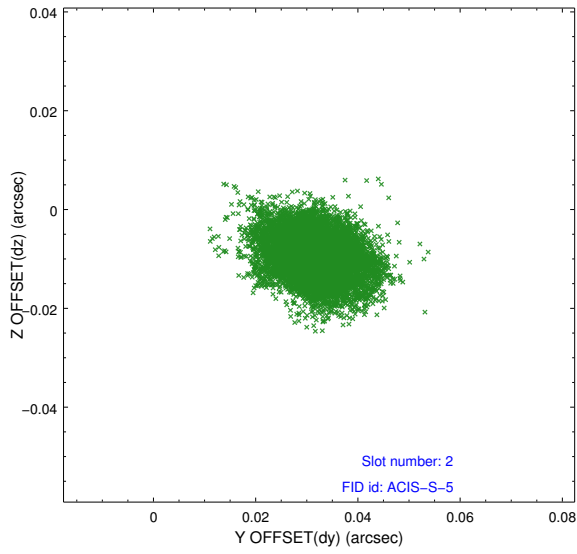
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.158

A.2 Comments