

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17592 - L2 Version 1
Chandra X-Ray Center

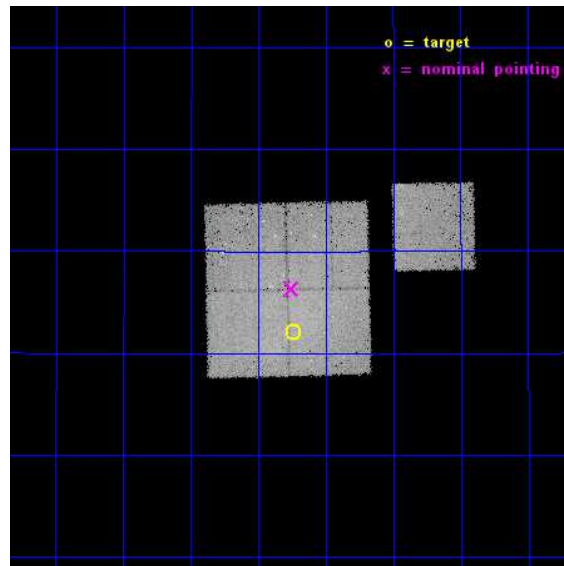
L2 Processing Date : Feb 9 2015

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

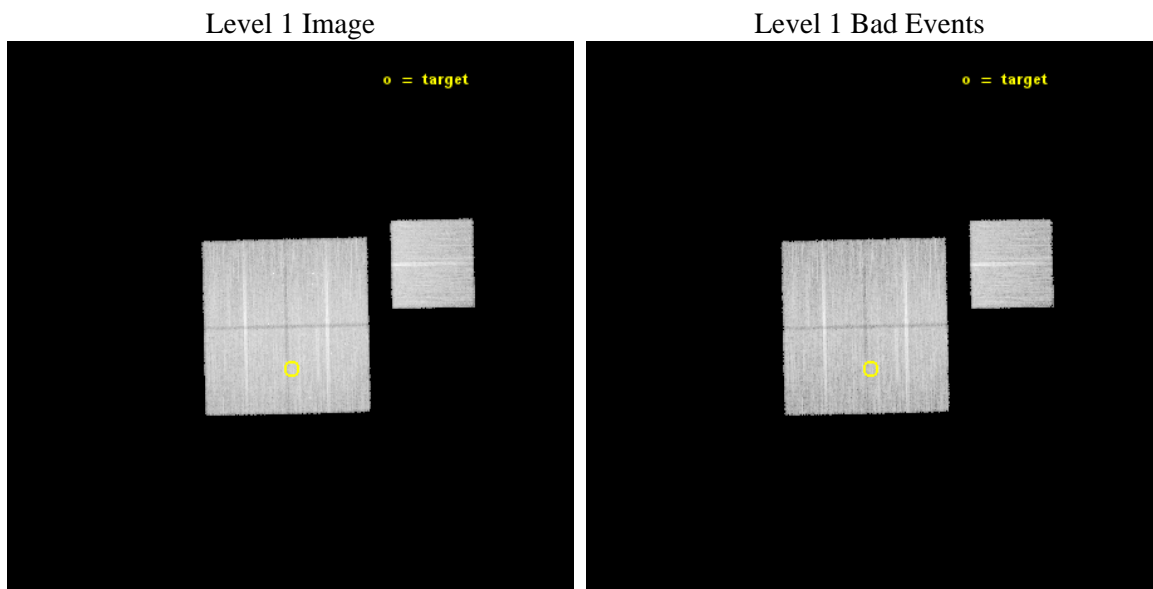
seq_num	801481	Sequence number
obs_id	17592	Observation id
title	Probing the Physics of the ICM in the Dynamically Young Cluster A1367	Proposal title
observer	Dr. William Forman	Principal investigator
object	Abell 1367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.185	Observer's specified target RA [deg]
dec_targ	19.701111	Observer's specified target Dec [deg]
ra_nom	176.18876485303	Nominal RA [deg]
dec_nom	19.772170962081	Nominal Dec [deg]
roll_nom	88.707419645332	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26067.177322745	Sum of GTIs [s]
livetime	25726.590460647	Livetime [s]
ontime0	26067.054202795	Sum of GTIs [s]
ontime1	26067.095242739	Sum of GTIs [s]
ontime2	26060.854202271	Sum of GTIs [s]
ontime3	26067.177322745	Sum of GTIs [s]
ontime6	26063.872132659	Sum of GTIs [s]
l2events	125568	Number of level 2 events



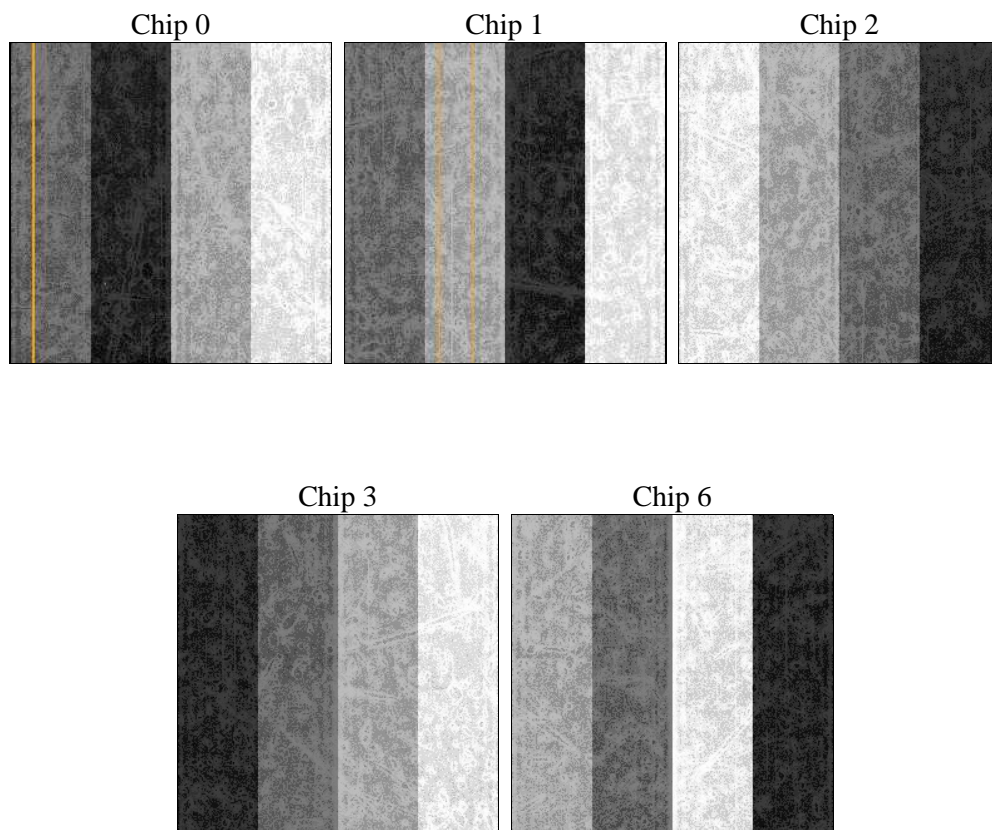
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	26067.177322745	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	26067.054202795	Sum of GTIs [s]
date	2015-02-09T10:00:37	Date and time of file creation	ontime1	26067.095242739	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26060.854202271	Sum of GTIs [s]
			ontime3	26067.177322745	Sum of GTIs [s]
			ontime6	26063.872132659	Sum of GTIs [s]
			l1events	692015	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	130212	137553	141619	146073	136558
rejected events	104475	103016	113651	114905	115346
rejected %	80%	74%	80%	78%	84%

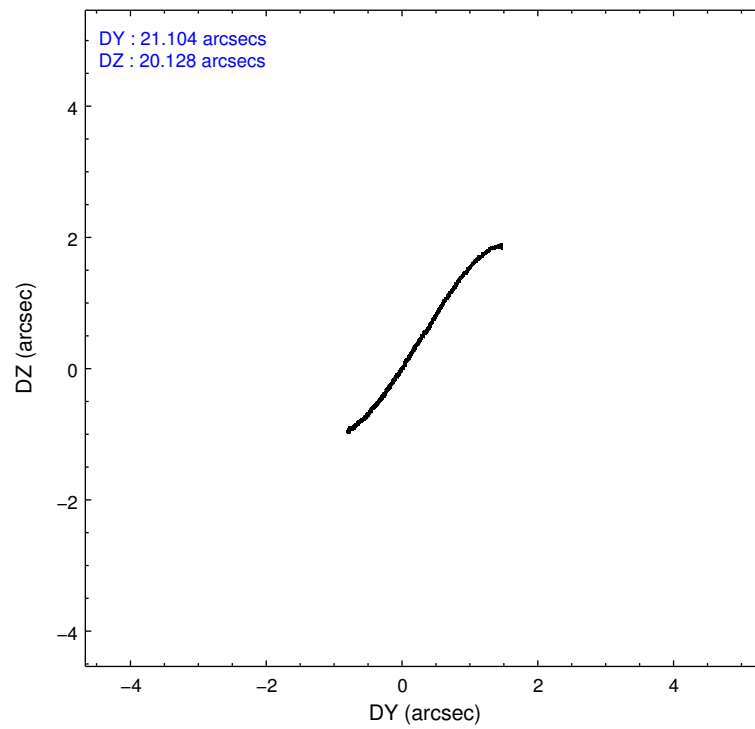
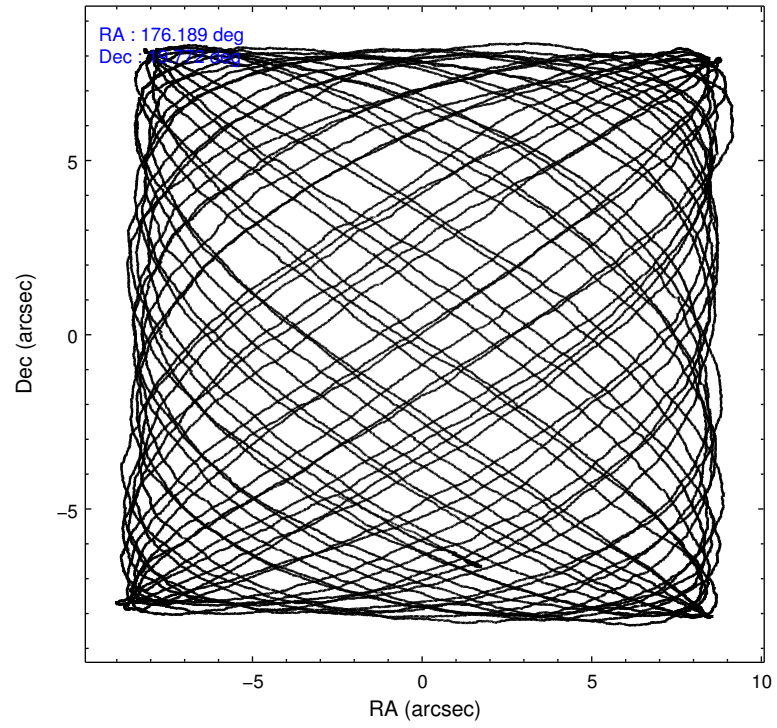
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	13615	20246	16085	18874	9950
	10%	14%	11%	12%	7%
grade 1 events	86	104	107	140	78
	0%	0%	0%	0%	0%
grade 2 events	5011	5829	4904	4869	4115
	3%	4%	3%	3%	3%
grade 3 events	1918	2173	1837	2064	1746
	1%	1%	1%	1%	1%
grade 4 events	1838	2215	1897	2013	1763
	1%	1%	1%	1%	1%
grade 5 events	6218	6462	5870	7100	6631
	4%	4%	4%	4%	4%
grade 6 events	3357	4077	3246	3350	3642
	2%	2%	2%	2%	2%
grade 7 events	98169	96447	107673	107663	108633
	75%	70%	76%	73%	79%

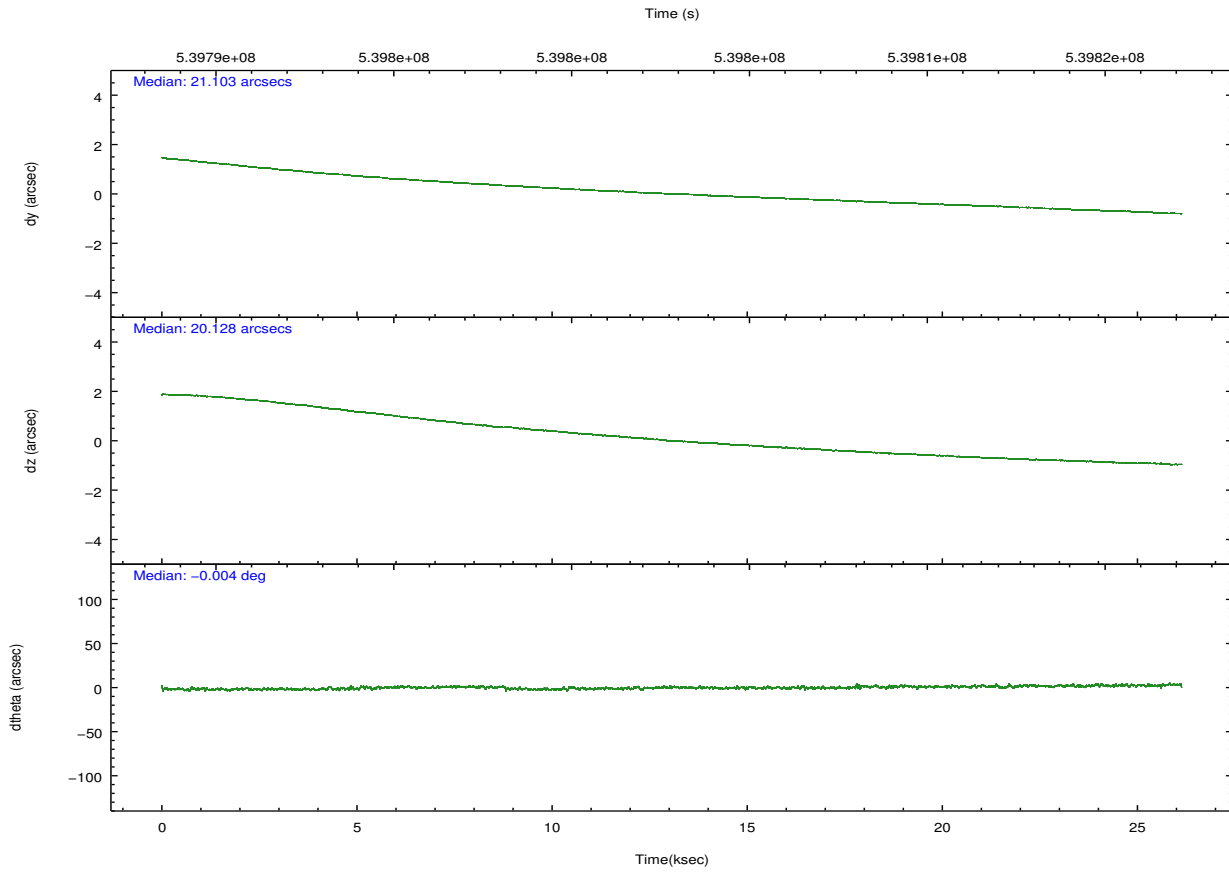
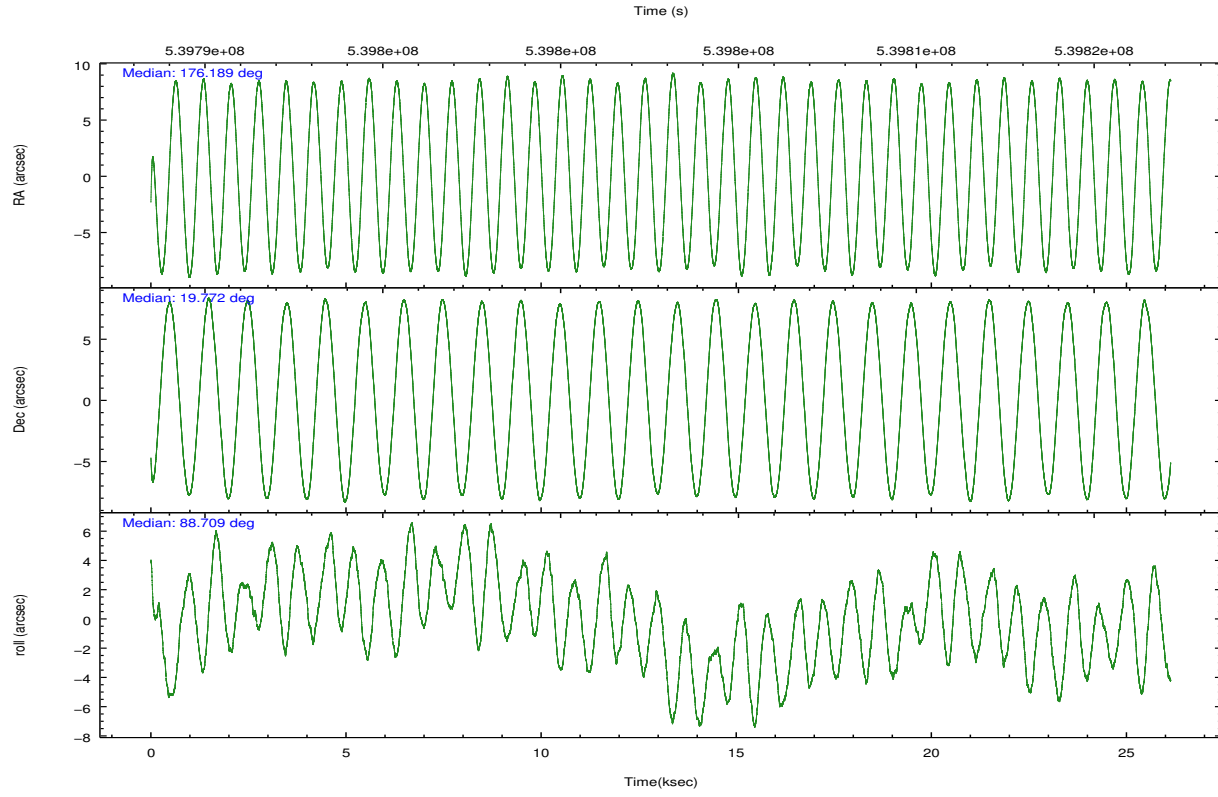
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	176.202958	176.1887648530274
[deg] Pointing Dec	19.748011	19.77217096208083
[deg] Pointing Roll	88.493931	88.70741964533242
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-234.592463	-234.5931605814527
[mm] SIM translation stage offset	1	1.000707578522992
[s] Observation start time (MET)	539789894.184000	539788683.95046
Observation start date	2015-02-08T13:37:07	2015-02-08T13:18:03
[s] Observation end time (MET)	539815894.184000	539816442.4895101
Observation end date	2015-02-08T20:50:27	2015-02-08T21:00:42
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



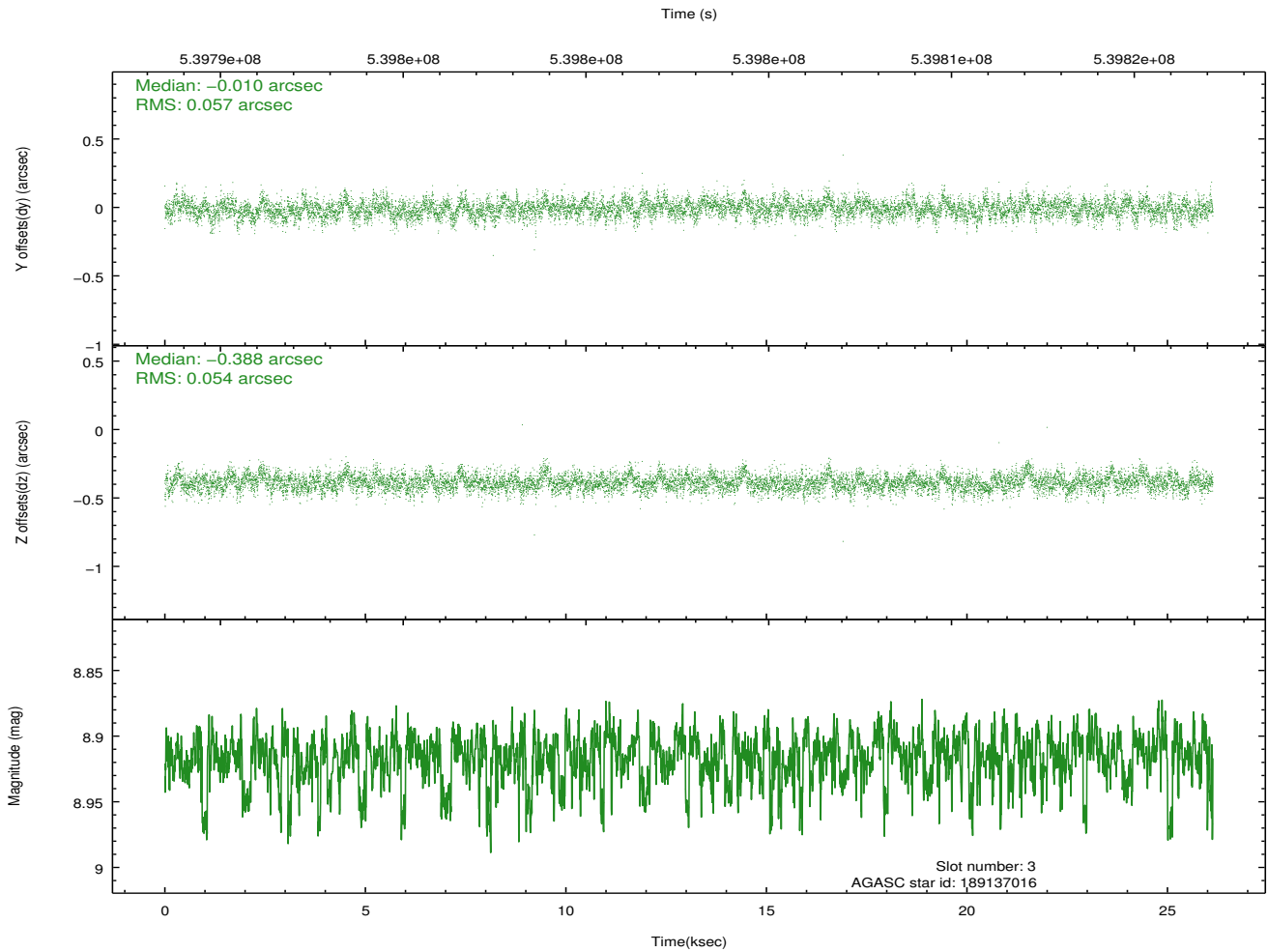
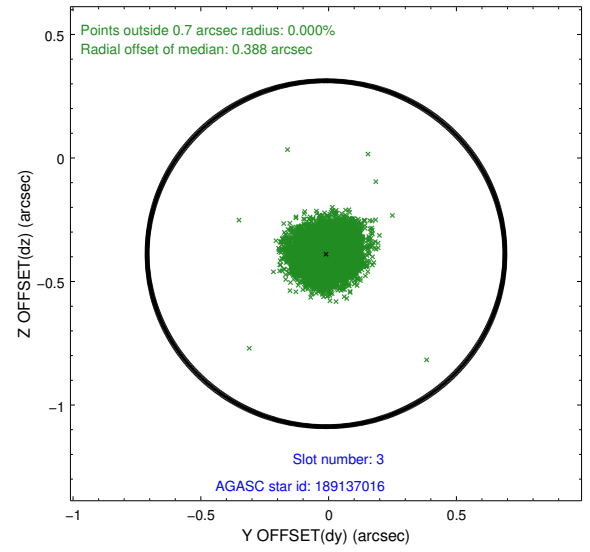
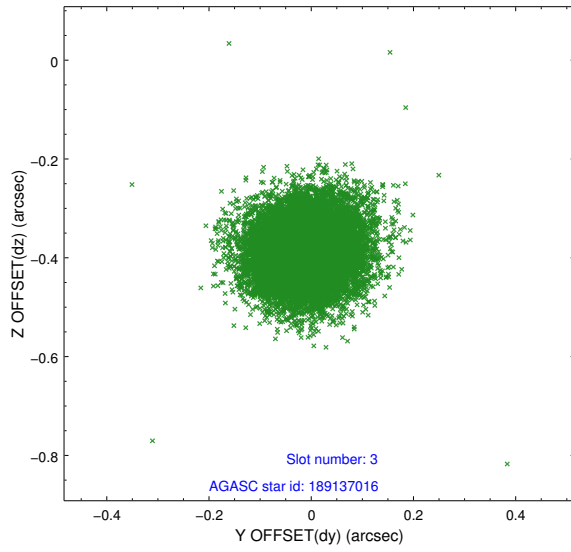


Slot Statistics

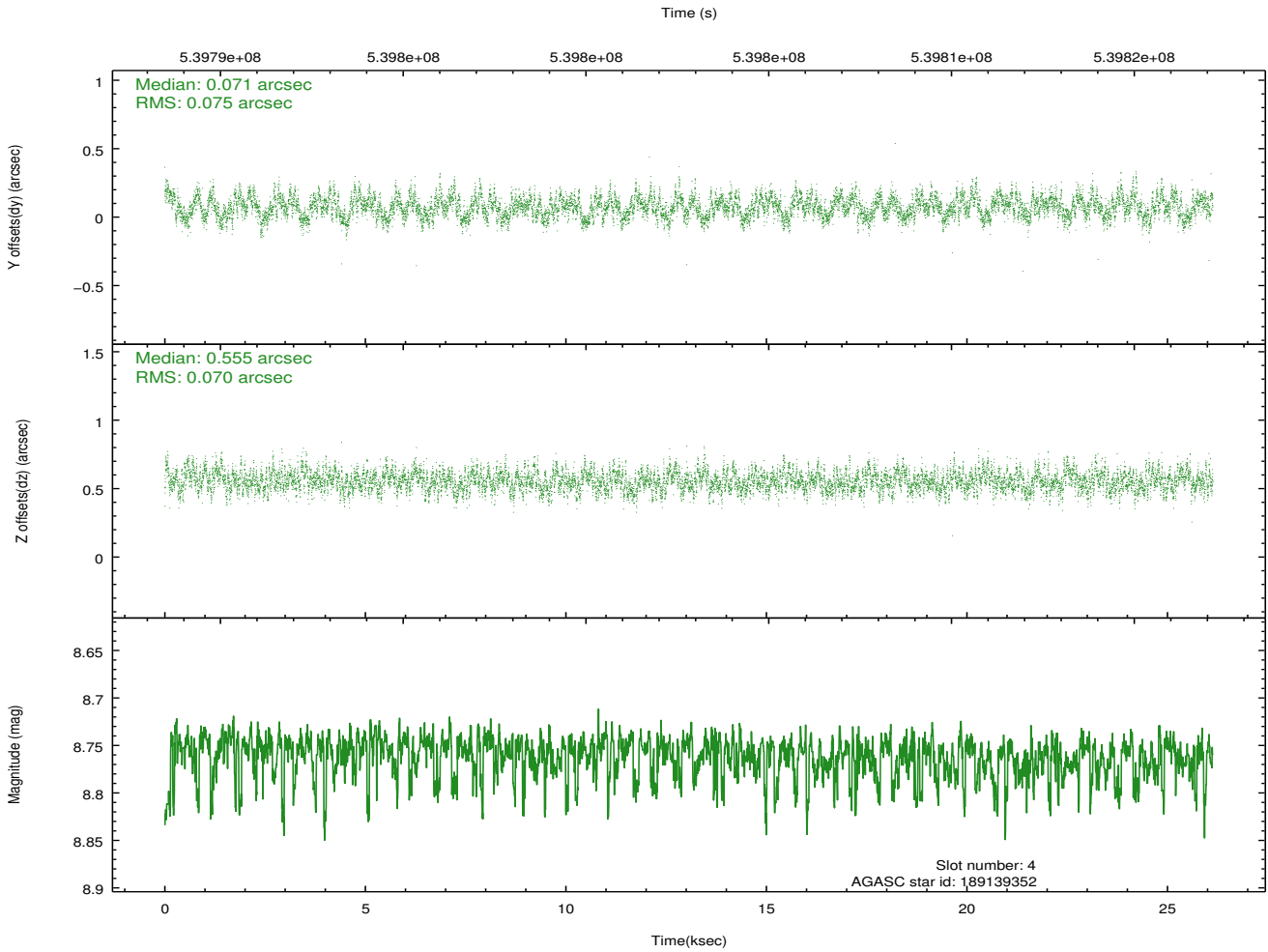
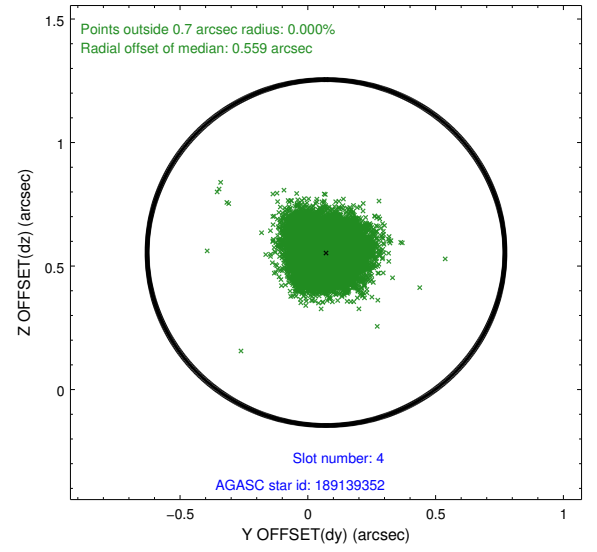
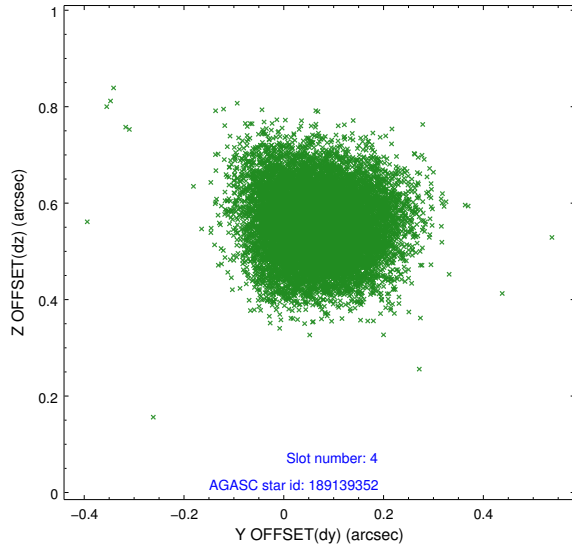
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	6372	-0.090	0.149	0.043	0.107	0.000000	0.000000	918.03	-823.25
1	FID		ACIS-I-2	7.05	6372	-0.212	-0.186	0.020	0.035	0.000000	0.000000	-776.07	-830.23
2	FID		ACIS-I-4	7.09	6374	0.203	0.105	0.023	0.085	0.000000	0.000000	2138.17	1076.40
3	GUIDE	used	189137016	8.92	12744	-0.010	-0.388	0.083	0.136	176.017714	19.173647	-2082.83	575.25
4	GUIDE	used	189139352	8.76	12743	0.071	0.555	0.110	0.174	176.255936	19.500124	-887.04	-202.32
5	GUIDE	used	189140584	7.41	12748	-0.241	0.010	0.091	0.139	176.337611	19.889196	519.64	-442.27
6	GUIDE	used	189147640	7.62	12748	-0.197	-0.291	0.079	0.124	176.540349	20.319236	2087.00	-1084.74
7	GUIDE	used	189152088	8.49	12738	0.371	0.117	0.098	0.165	176.796455	19.306289	-1532.24	-2056.76

2.4 Star Slots

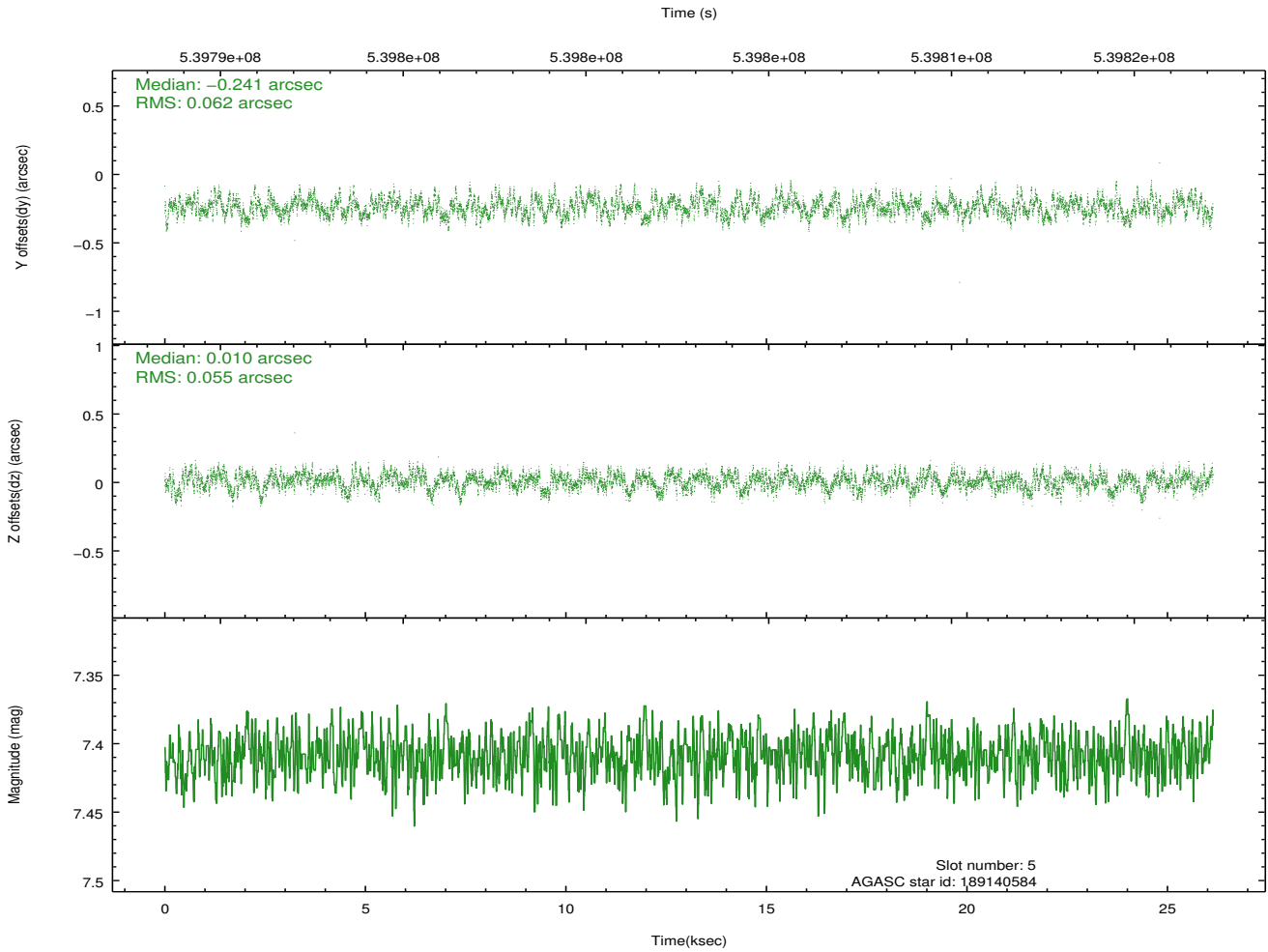
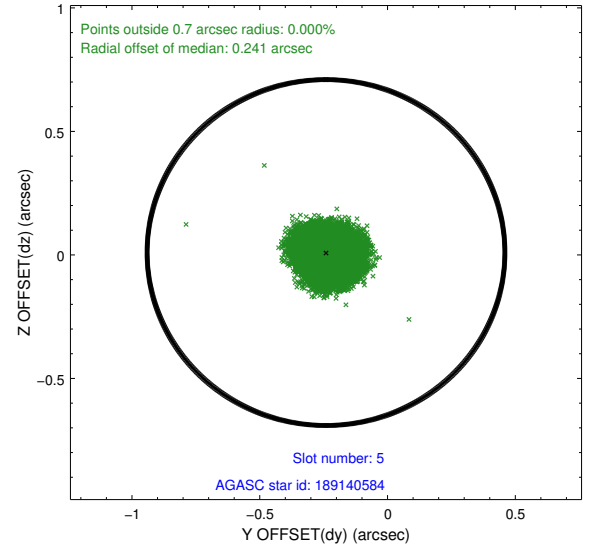
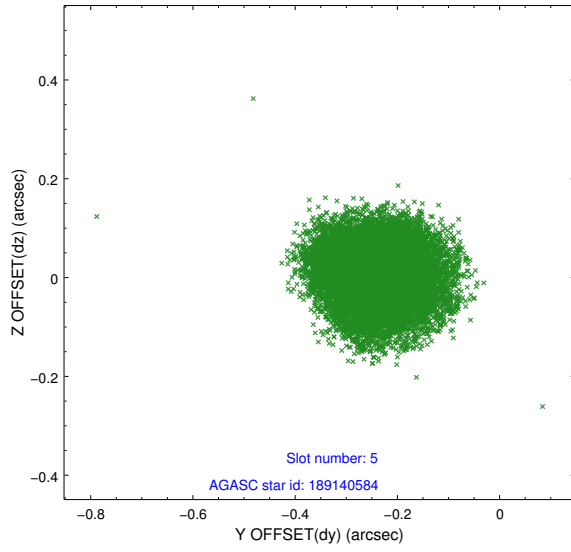
2.4.1 Slot 3



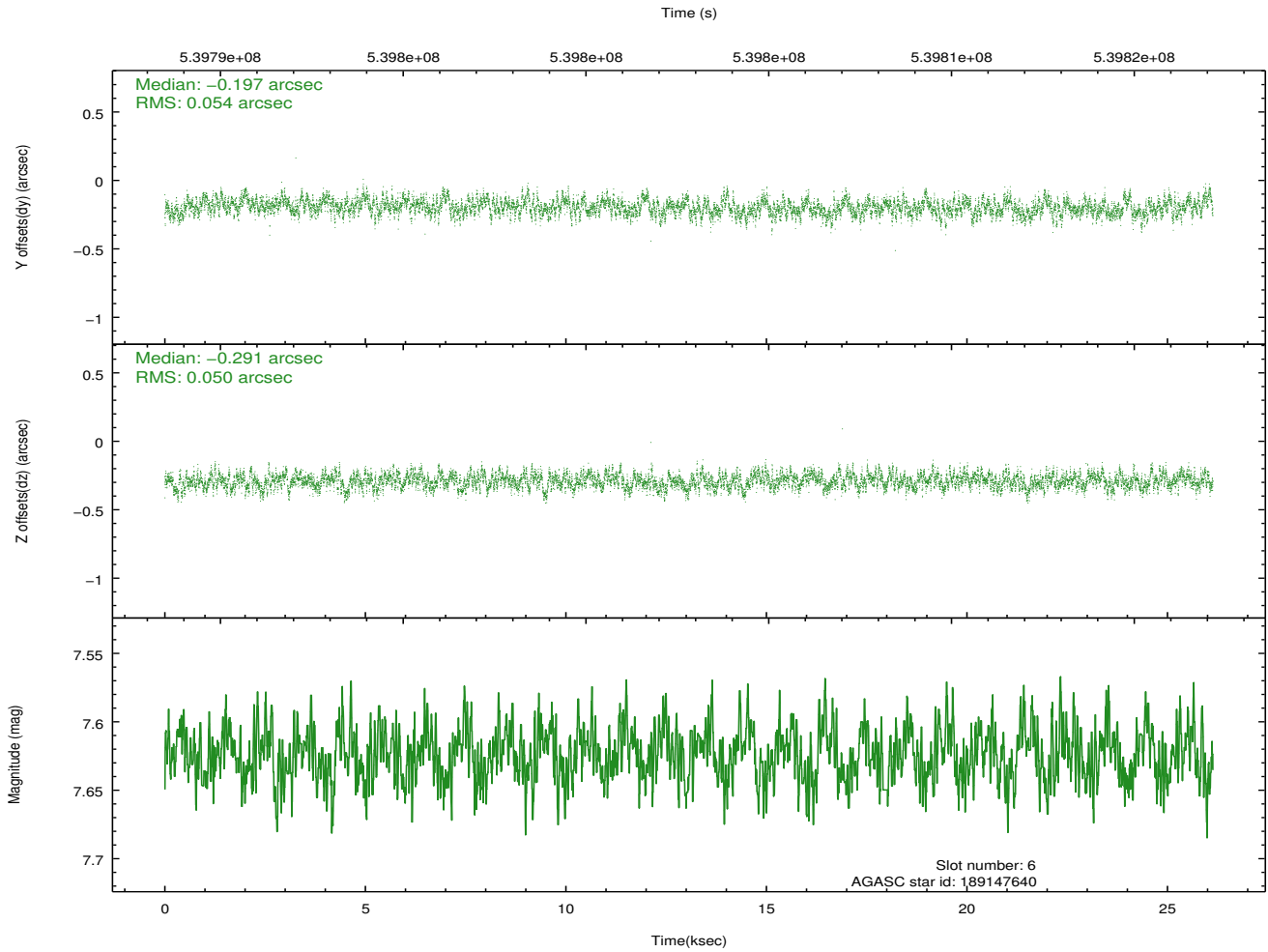
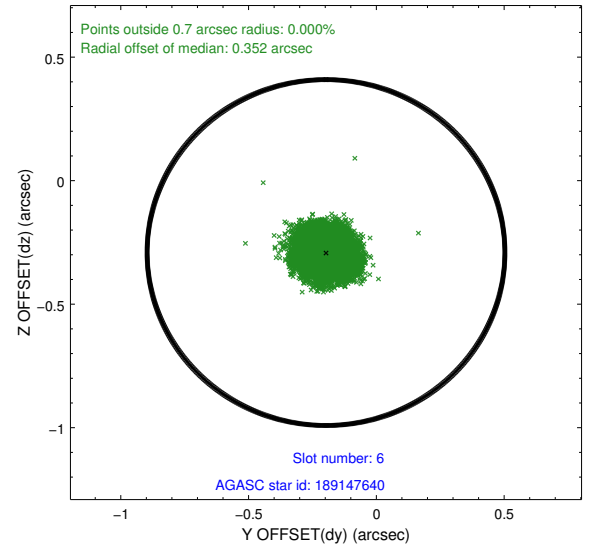
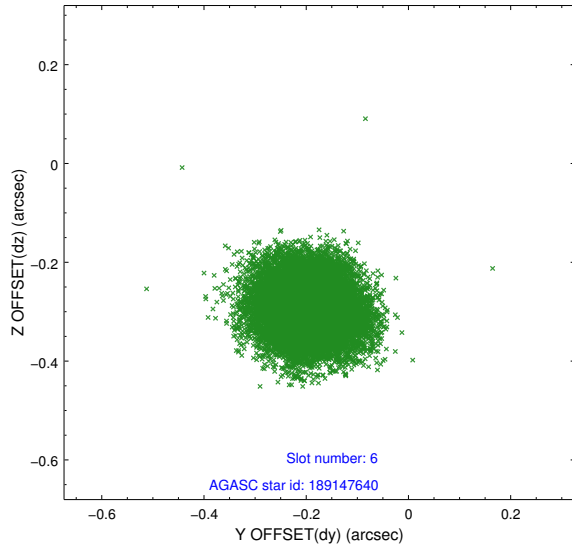
2.4.2 Slot 4



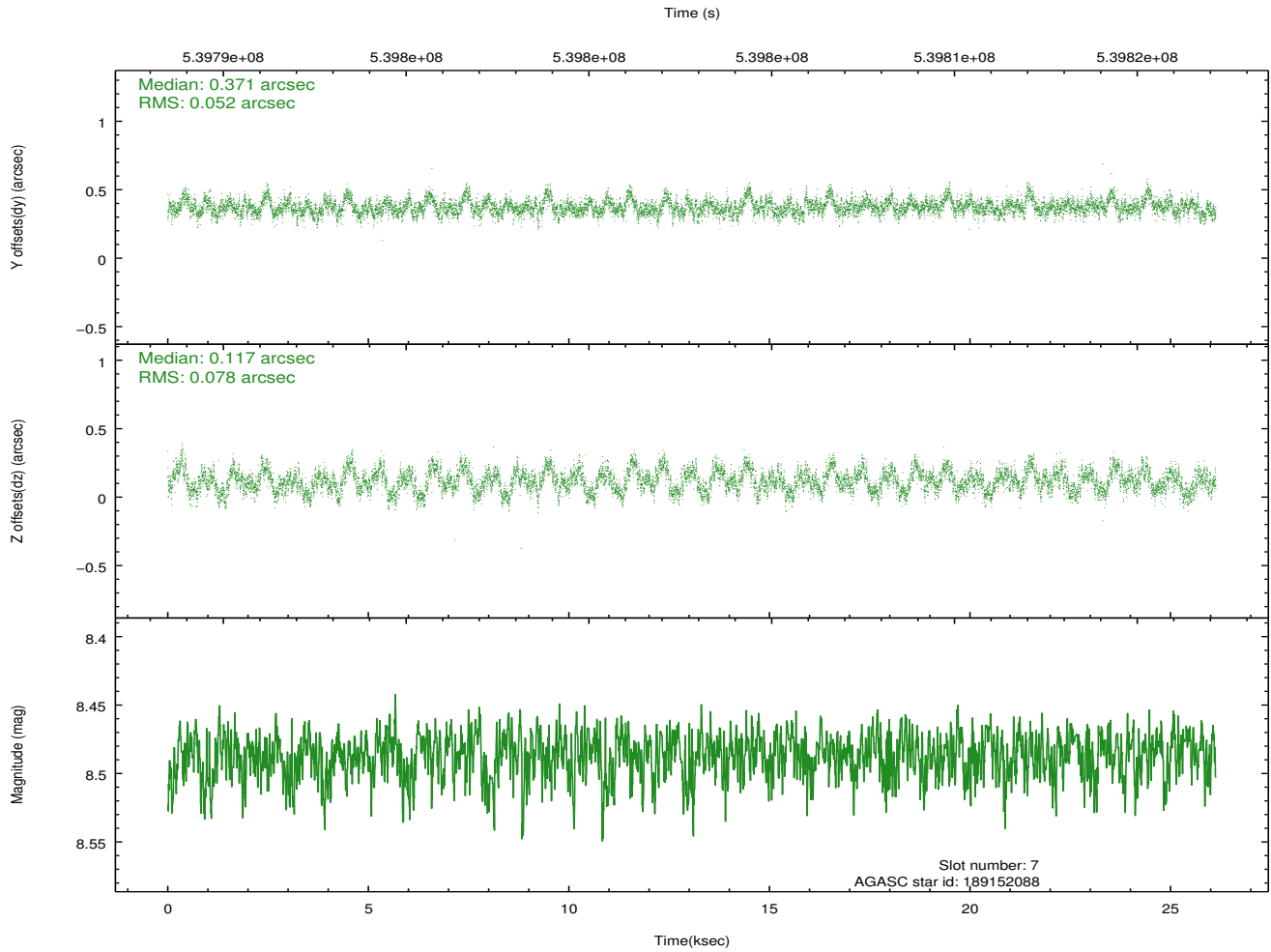
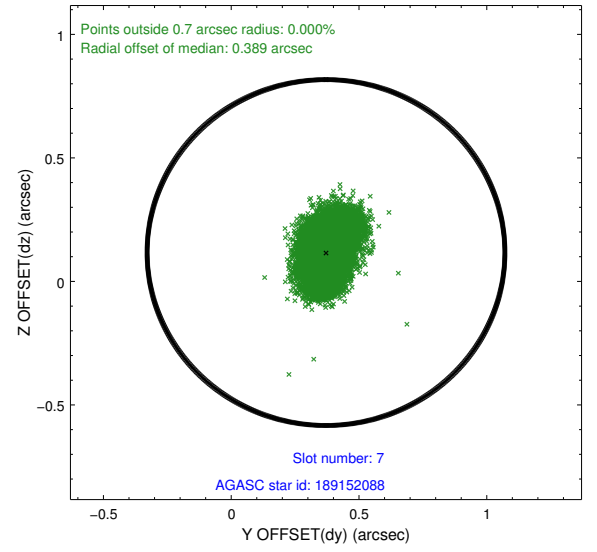
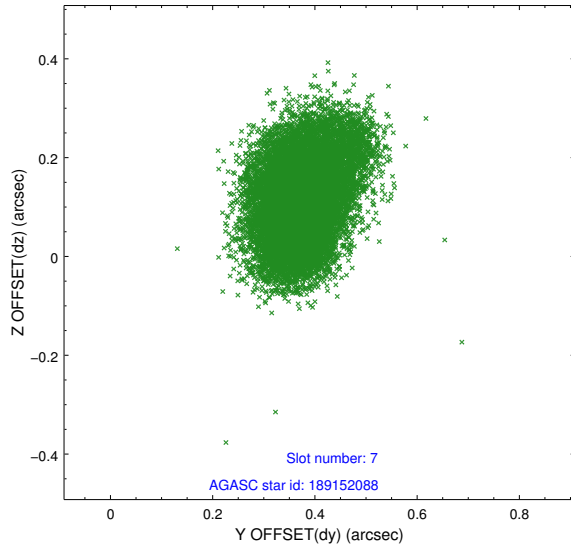
2.4.3 Slot 5



2.4.4 Slot 6

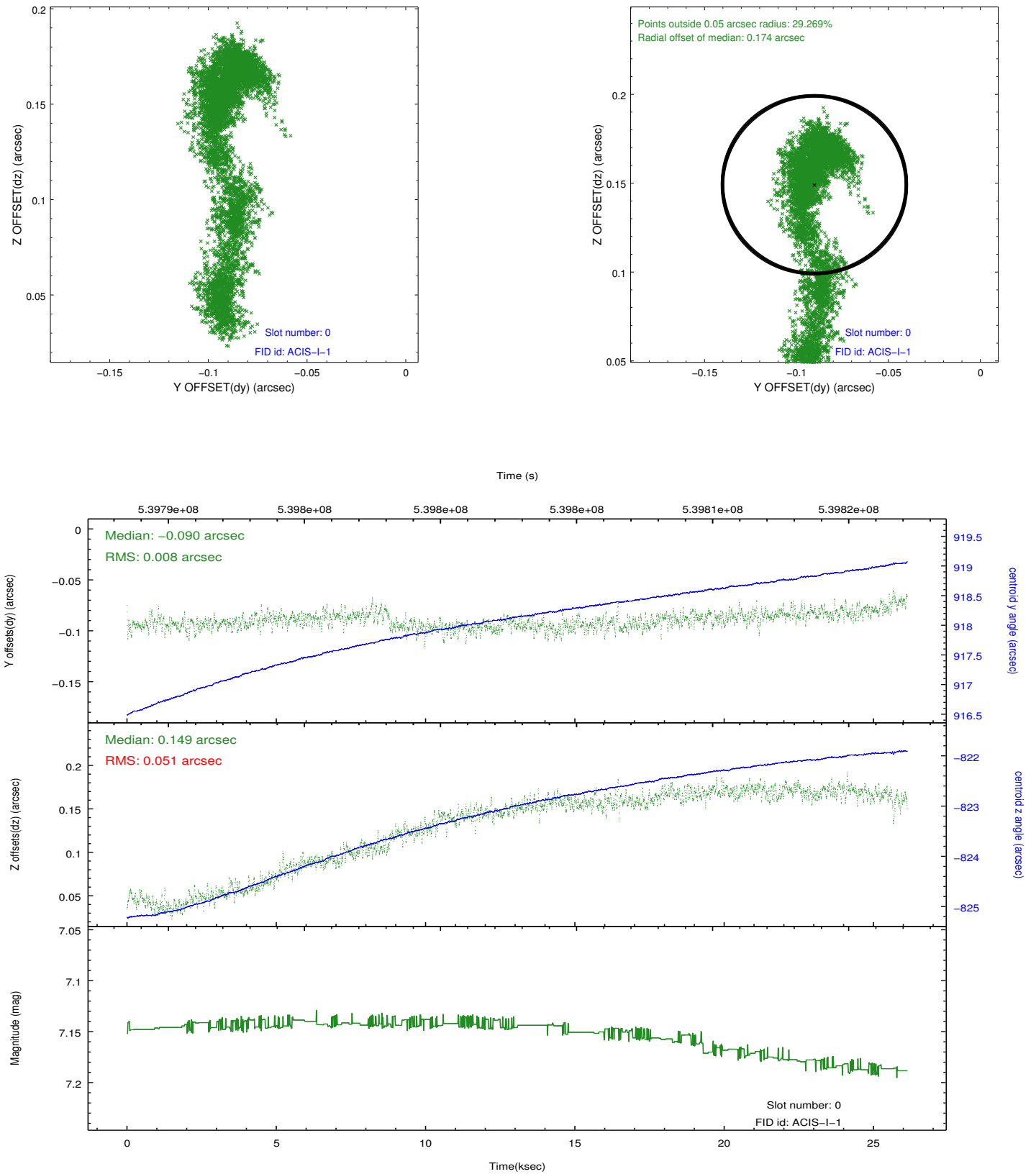


2.4.5 Slot 7

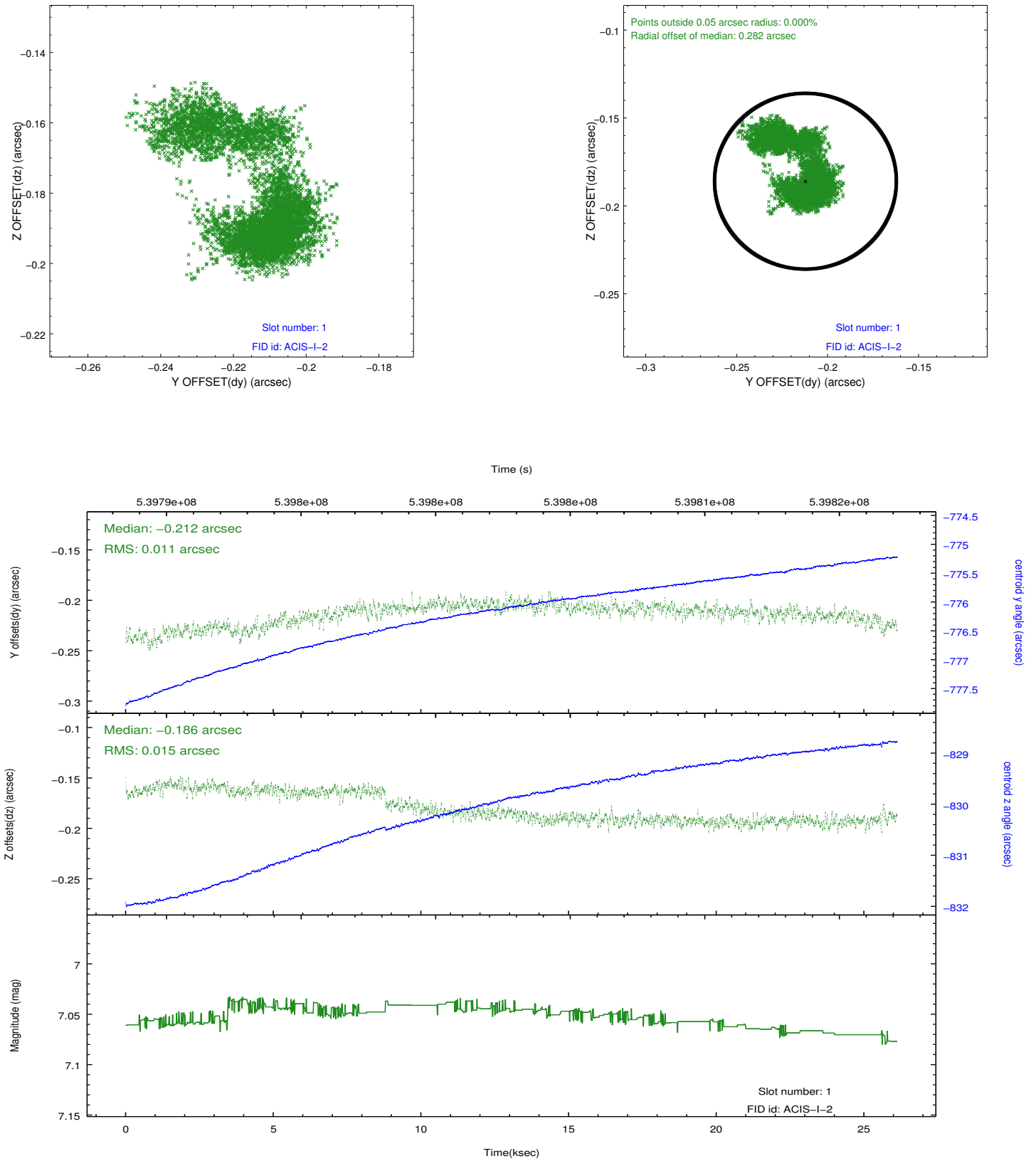


2.5 FID Slots

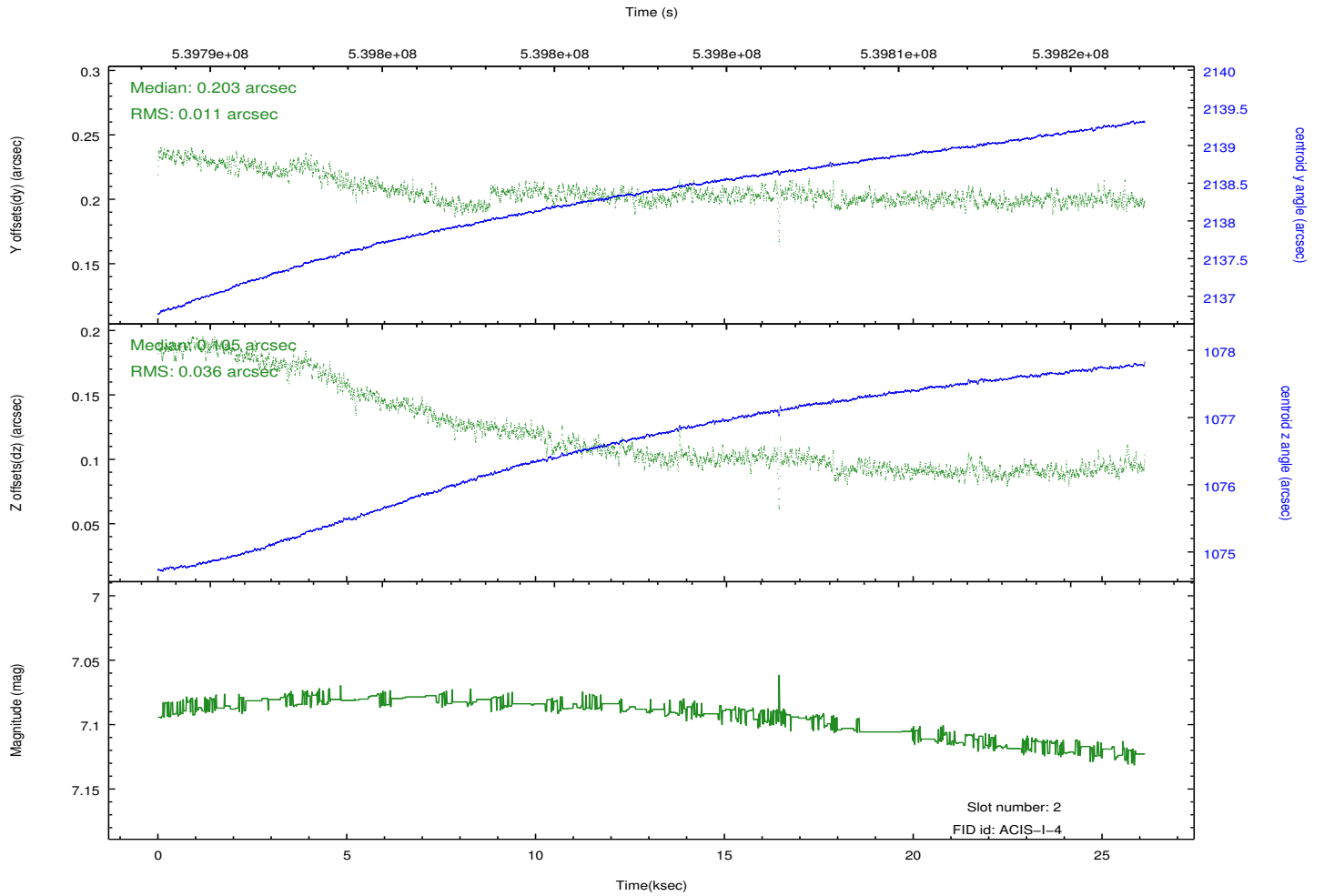
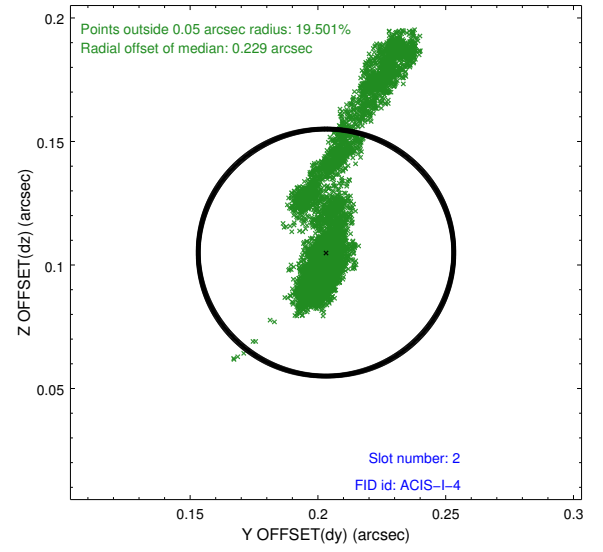
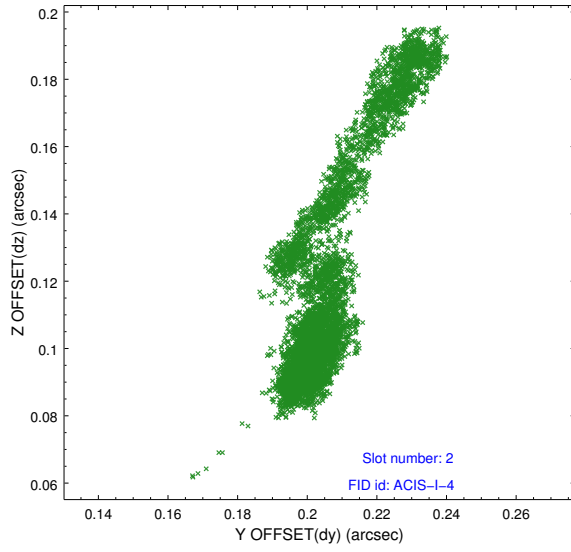
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.067177322745

A.2 Comments