

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17589 - L2 Version 1
Chandra X-Ray Center

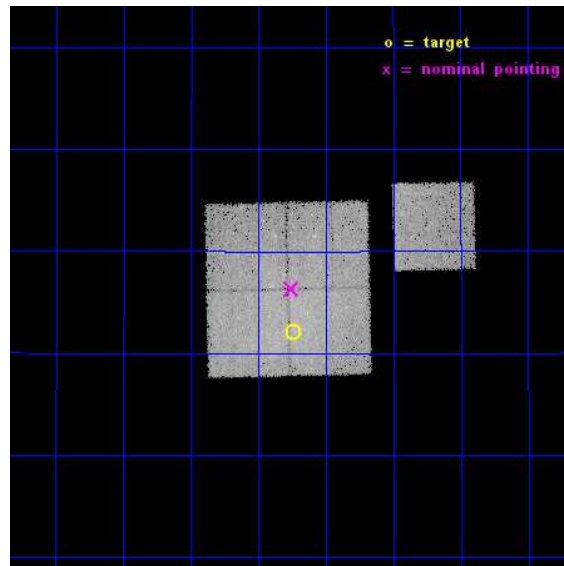
L2 Processing Date : Jan 31 2015

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1 Front

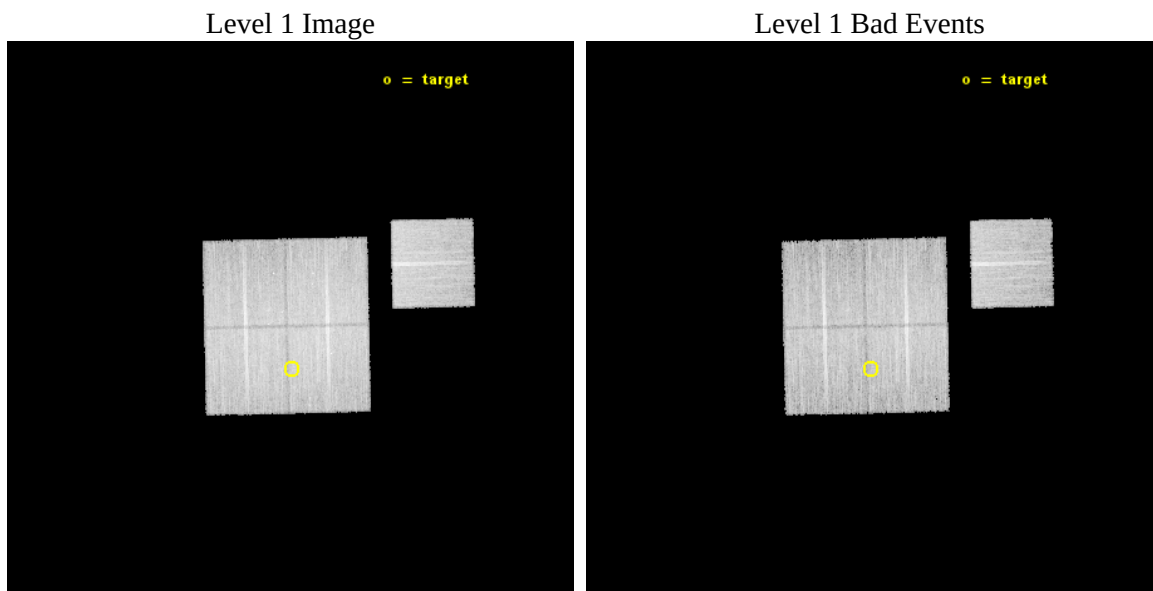
seq_num	801481	Sequence number
obs_id	17589	Observation id
title	Probing the Physics of the ICM in the Dynamically Young Cluster A1367	Proposal title
observer	Dr. William Forman	Principal investigator
object	Abell 1367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.185	Observer's specified target RA [deg]
dec_targ	19.701111	Observer's specified target Dec [deg]
ra_nom	176.18874902743	Nominal RA [deg]
dec_nom	19.772169550595	Nominal Dec [deg]
roll_nom	88.70742675864	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25082.100193024	Sum of GTIs [s]
livetime	24754.384088828	Livetime [s]
ontime0	25078.959172368	Sum of GTIs [s]
ontime1	25082.100193024	Sum of GTIs [s]
ontime2	25075.818192482	Sum of GTIs [s]
ontime3	25082.100193024	Sum of GTIs [s]
ontime6	25082.100193024	Sum of GTIs [s]
l2events	118258	Number of level 2 events



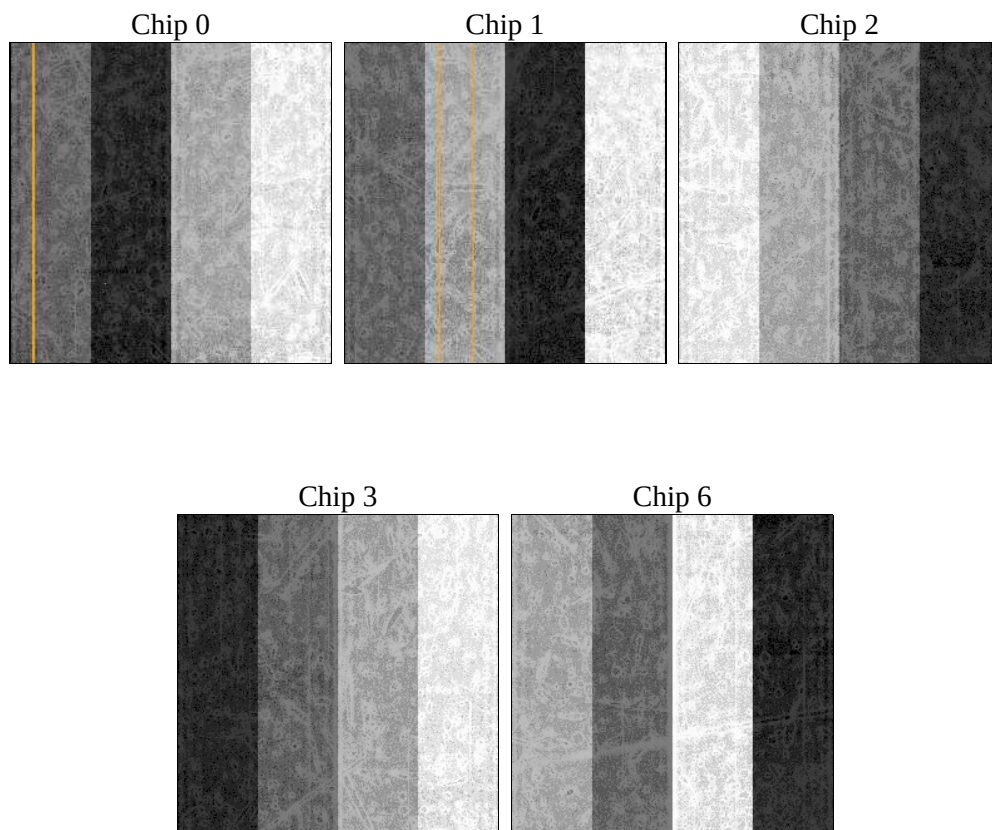
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	25082.100193024	Sum of GTIs [s]
caldbver	4.6.6	 	ontime0	25078.959172368	Sum of GTIs [s]
date	2015-02-01T00:02:36	Date and time of file creation	ontime1	25082.100193024	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25075.818192482	Sum of GTIs [s]
			ontime3	25082.100193024	Sum of GTIs [s]
			ontime6	25082.100193024	Sum of GTIs [s]
			l1events	627078	Number of level 1 events

2.1.4 Events

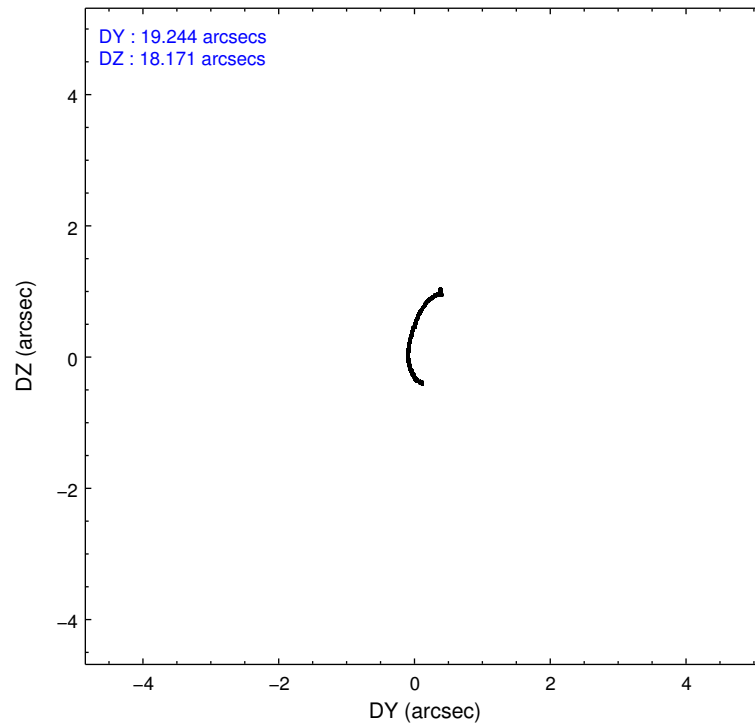
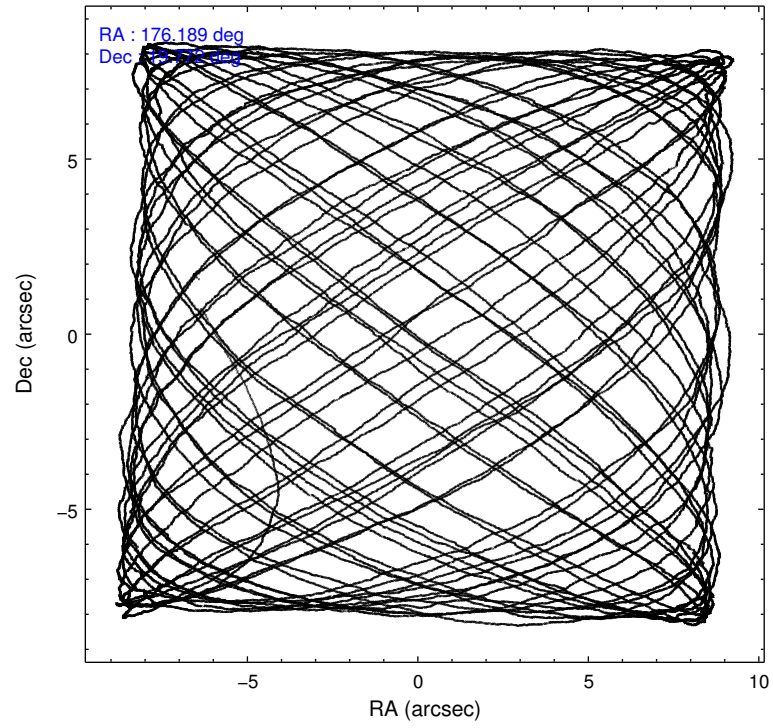
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	112677	129451	129170	132681	123099
rejected events	88625	96459	102684	102971	103555
rejected %	78%	74%	79%	77%	84%

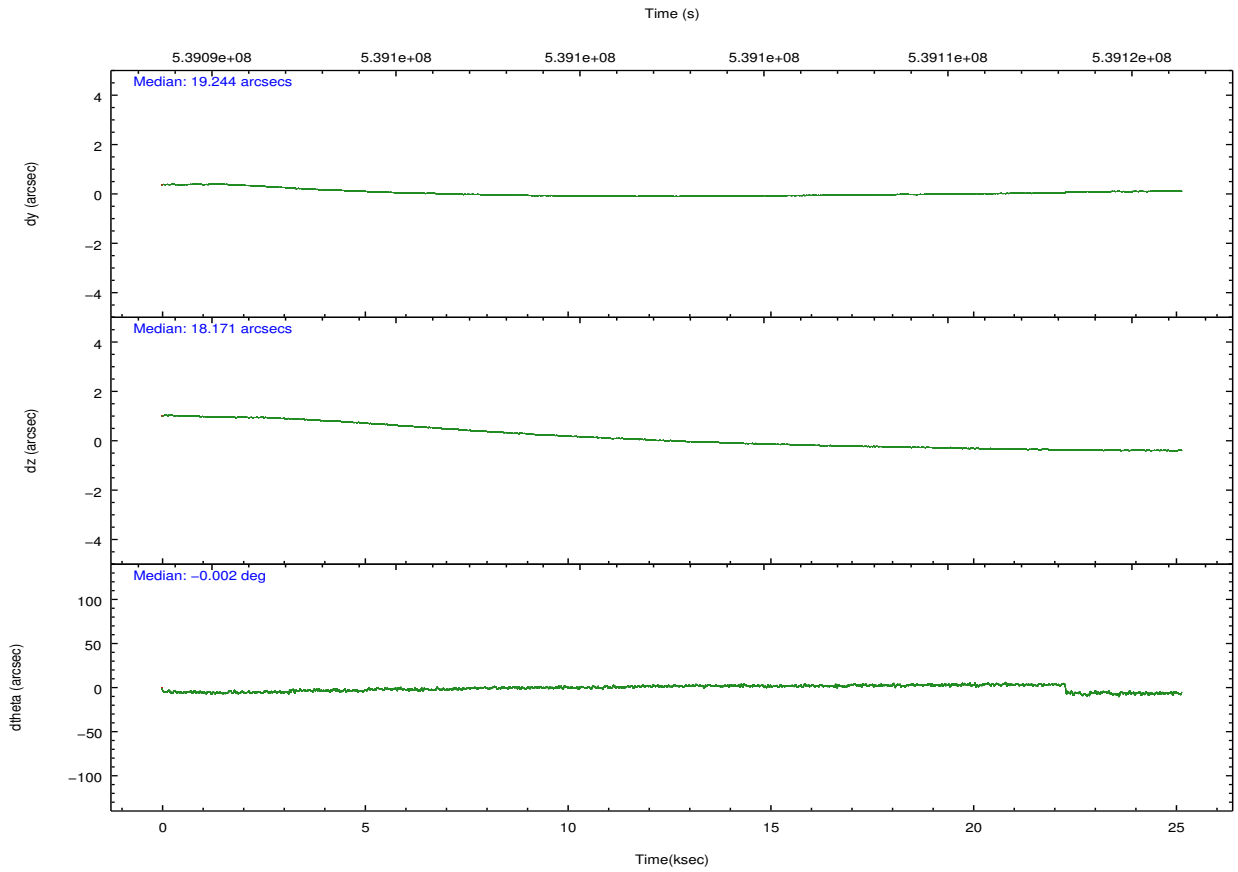
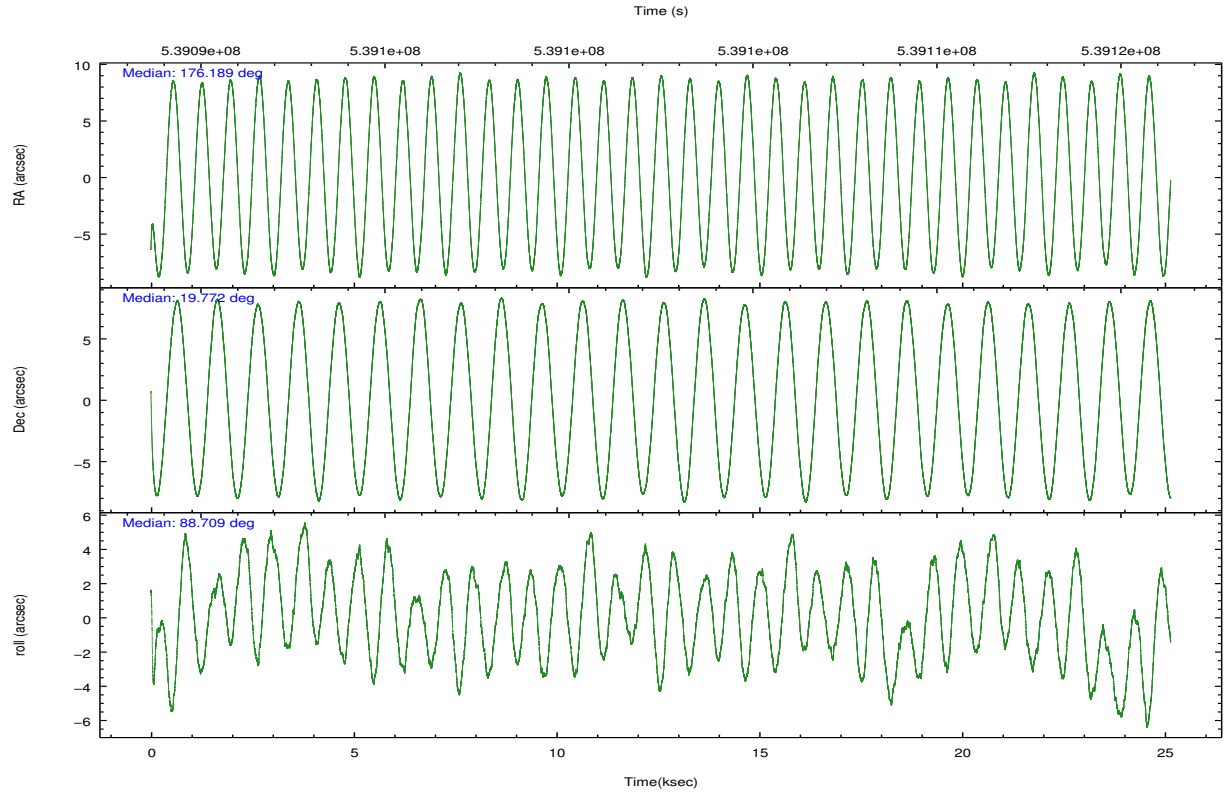
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12909	19423	15203	18041	9338
	11%	15%	11%	13%	7%
grade 1 events	85	115	111	120	75
	0%	0%	0%	0%	0%
grade 2 events	4515	5814	4758	4670	3757
	4%	4%	3%	3%	3%
grade 3 events	1774	2040	1704	1911	1591
	1%	1%	1%	1%	1%
grade 4 events	1638	1990	1794	1887	1498
	1%	1%	1%	1%	1%
grade 5 events	5662	5957	5215	6369	6005
	5%	4%	4%	4%	4%
grade 6 events	3216	3731	3030	3202	3360
	2%	2%	2%	2%	2%
grade 7 events	82878	90381	97355	96481	97475
	73%	69%	75%	72%	79%

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	176.202958	176.1887490274313	CCD I2 on	Y	Y
[deg] Pointing Dec	19.748011	19.77216955059515	CCD I3 on	Y	Y
[deg] Pointing Roll	88.493931	88.7074267586398	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	-234.592463	-234.5931605814527	CCD S3 on	N	N
[mm] SIM translation stage offset	1	1.000707578522992	CCD S4 on	N	N
[s] Observation start time (MET)	539090048.184000	539088859.52386	CCD S5 on	N	N
Observation start date	2015-01-31T11:13:01	2015-01-31T10:54:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539115048.184000	539116045.60037	On-chip summing requested	N	N
Observation end date	2015-01-31T18:09:41	2015-01-31T18:27:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



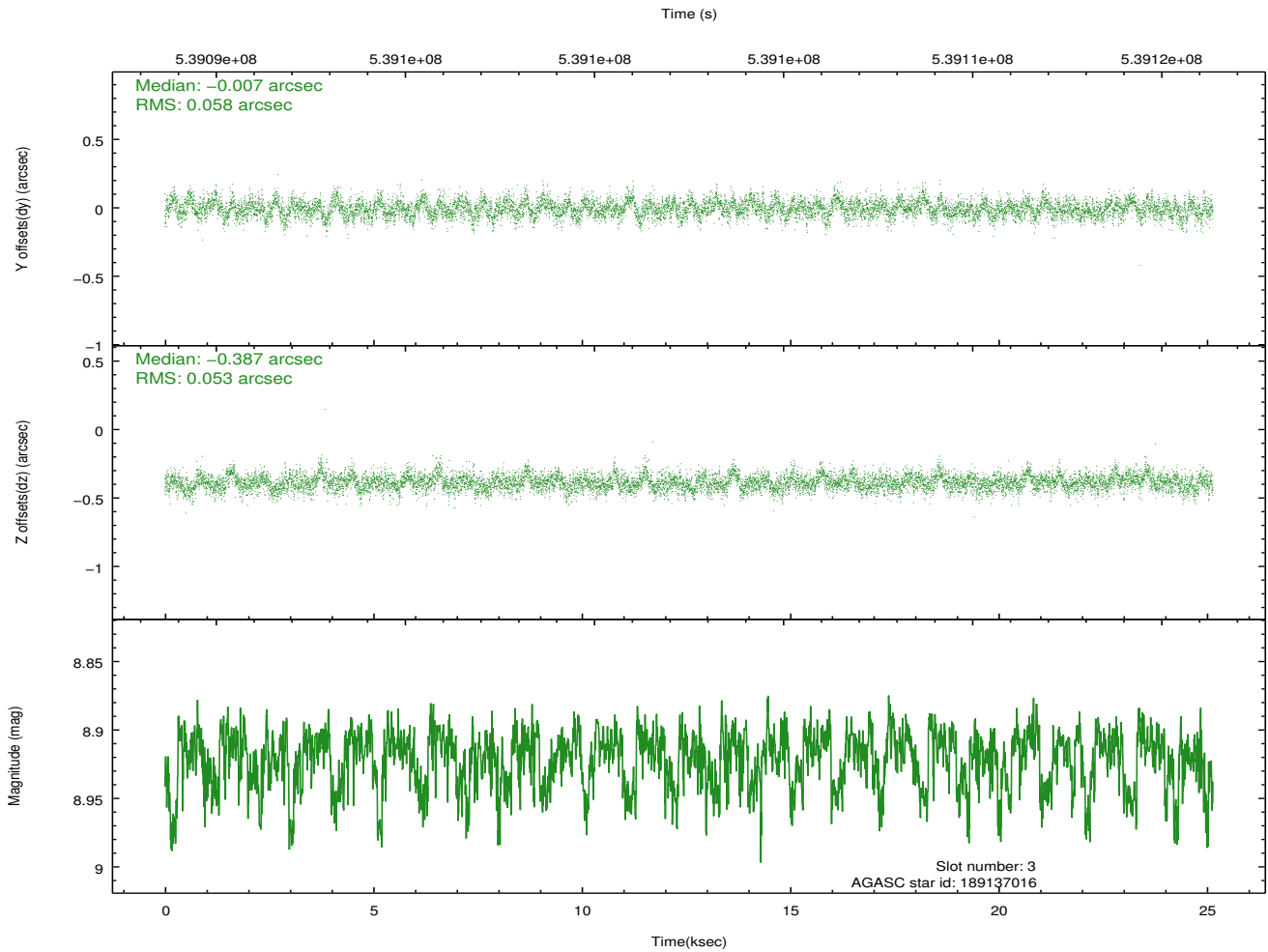
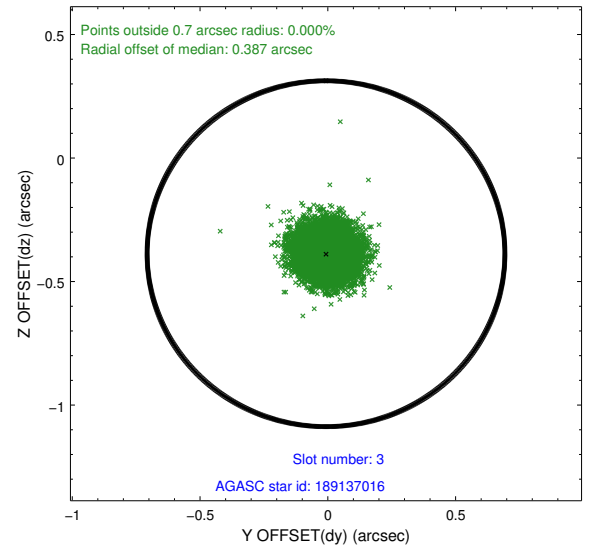
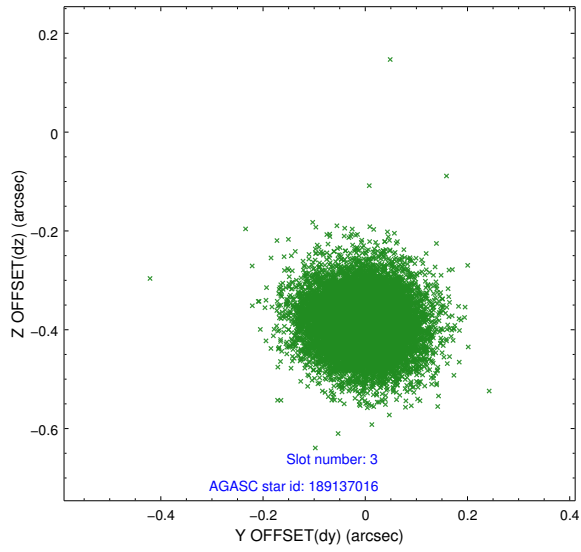


Slot Statistics

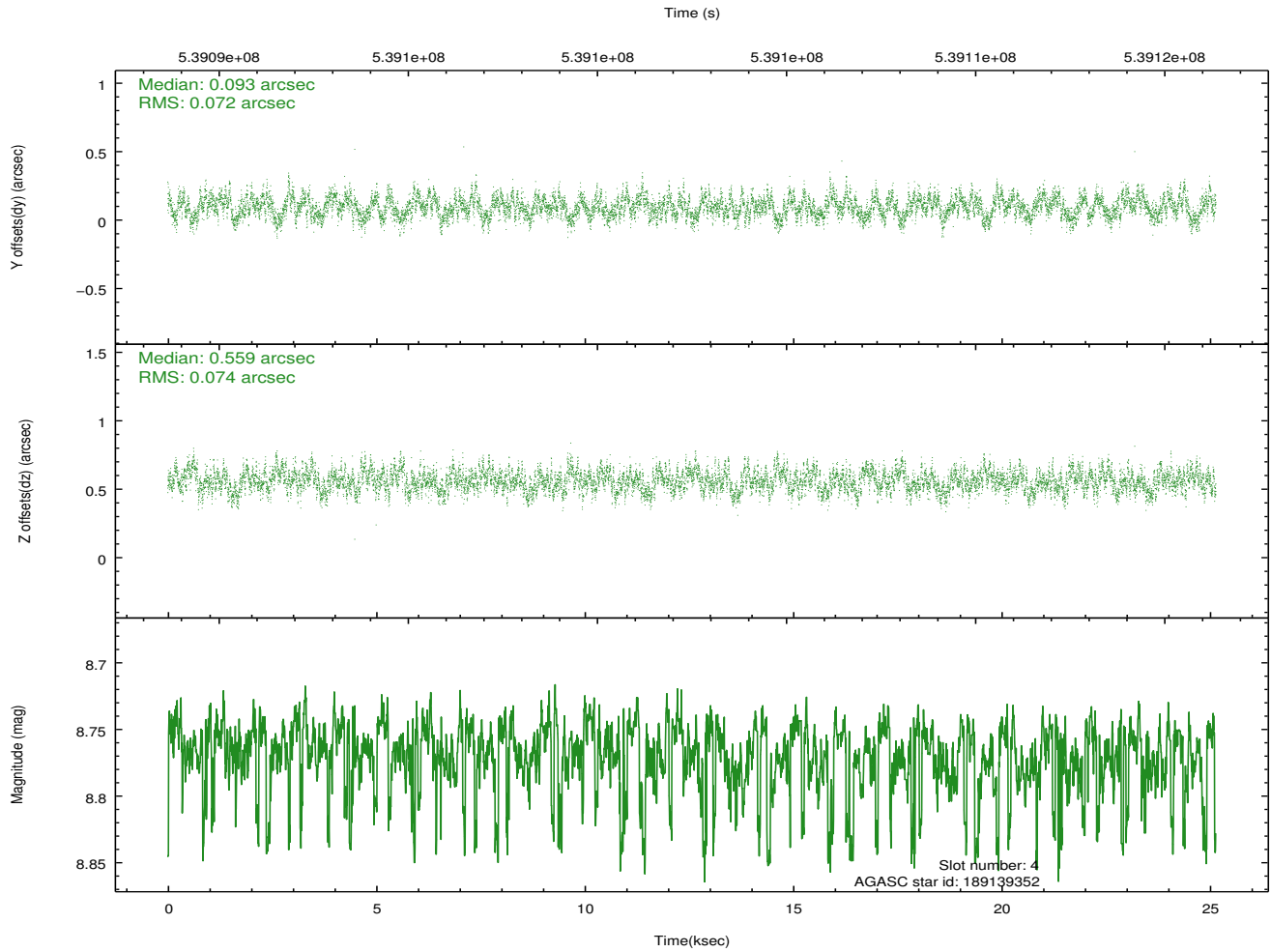
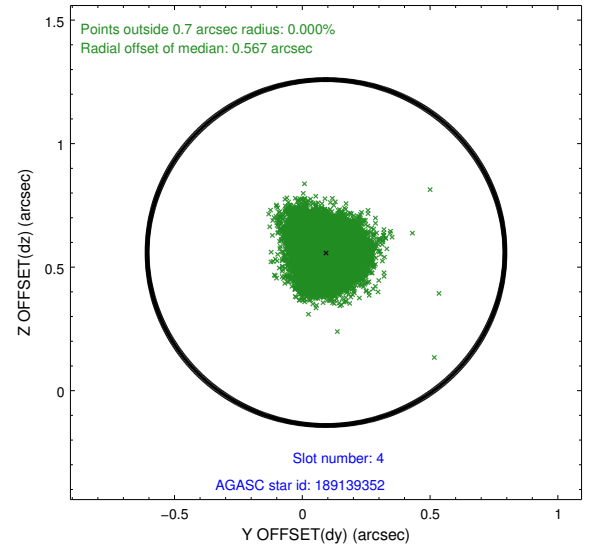
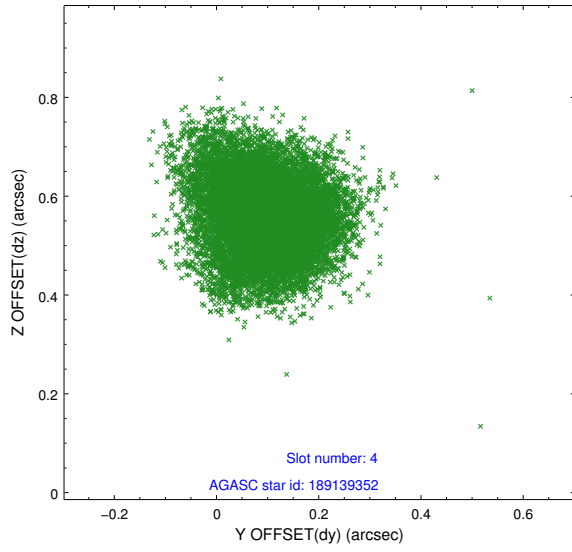
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	6134	-0.058	0.119	0.017	0.068	0.000000	0.000000	920.02	-821.23
1	FID		ACIS-I-2	7.05	6133	-0.251	-0.178	0.011	0.023	0.000000	0.000000	-774.15	-828.15
2	FID		ACIS-I-4	7.08	6134	0.210	0.126	0.010	0.053	0.000000	0.000000	2140.17	1078.41
3	GUIDE	used	189137016	8.92	12259	-0.007	-0.387	0.083	0.136	176.017714	19.173647	-2082.81	575.20
4	GUIDE	used	189139352	8.77	12260	0.093	0.559	0.111	0.175	176.255936	19.500124	-887.01	-202.37
5	GUIDE	used	189140584	7.40	12264	-0.242	0.020	0.088	0.138	176.337611	19.889196	519.65	-442.32
6	GUIDE	used	189147640	7.62	12265	-0.191	-0.284	0.075	0.119	176.540349	20.319236	2087.02	-1084.81
7	GUIDE	used	189152088	8.49	12263	0.343	0.091	0.103	0.174	176.796455	19.306289	-1532.26	-2056.84

2.4 Star Slots

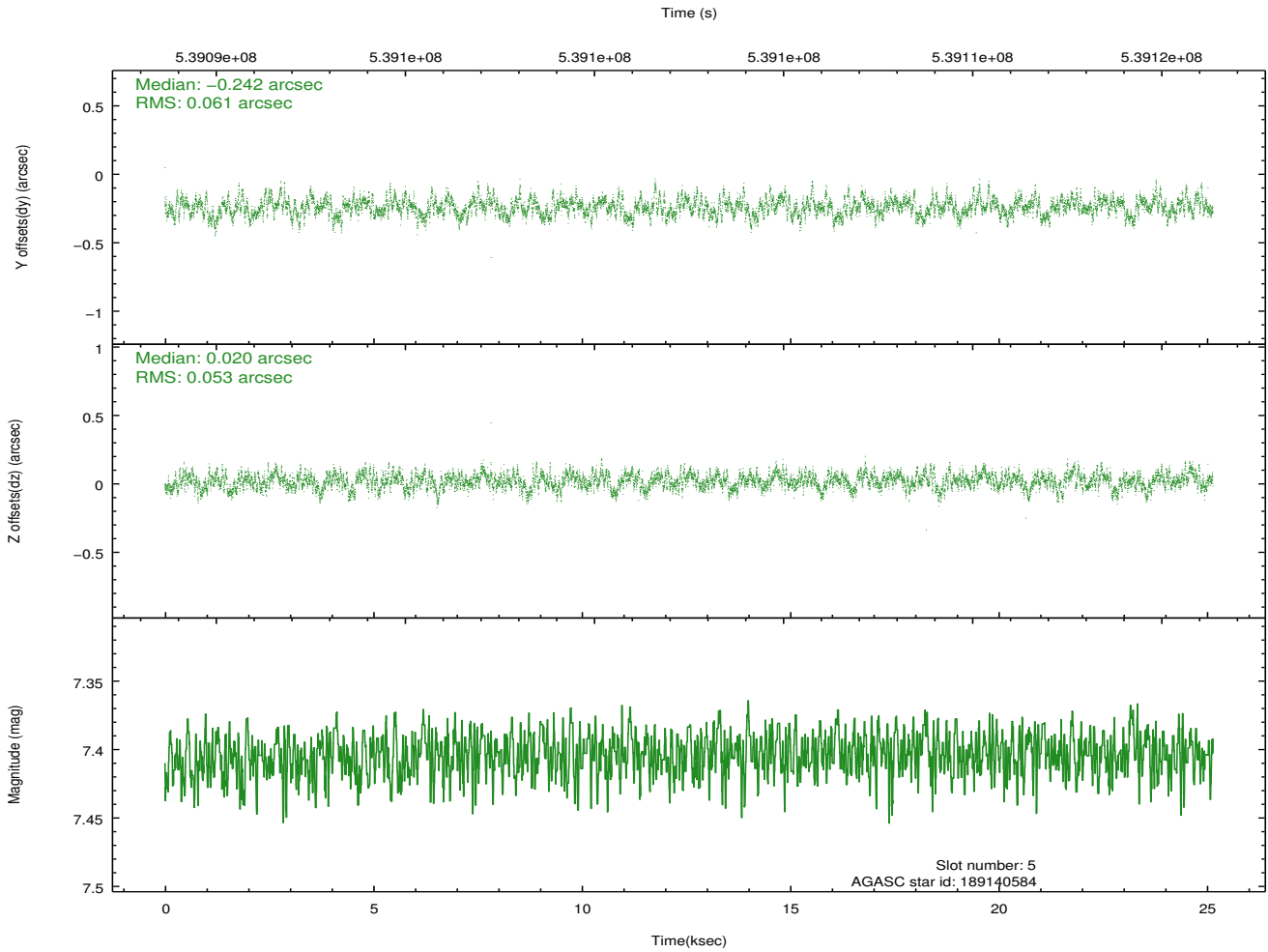
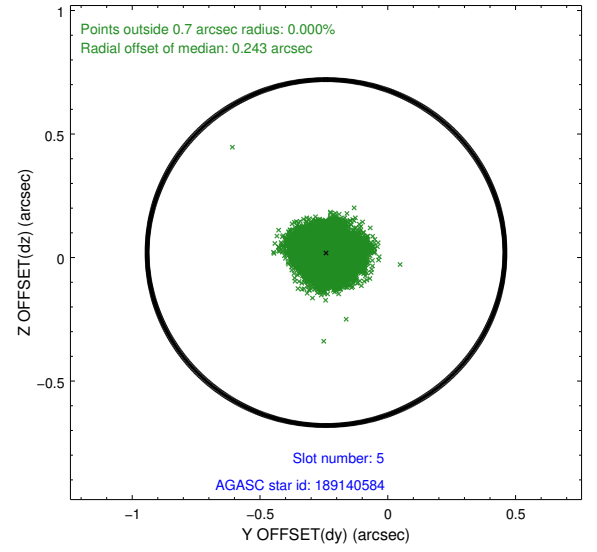
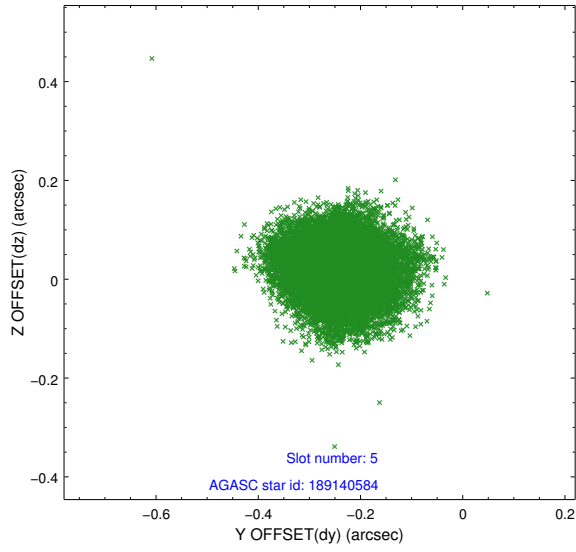
2.4.1 Slot 3



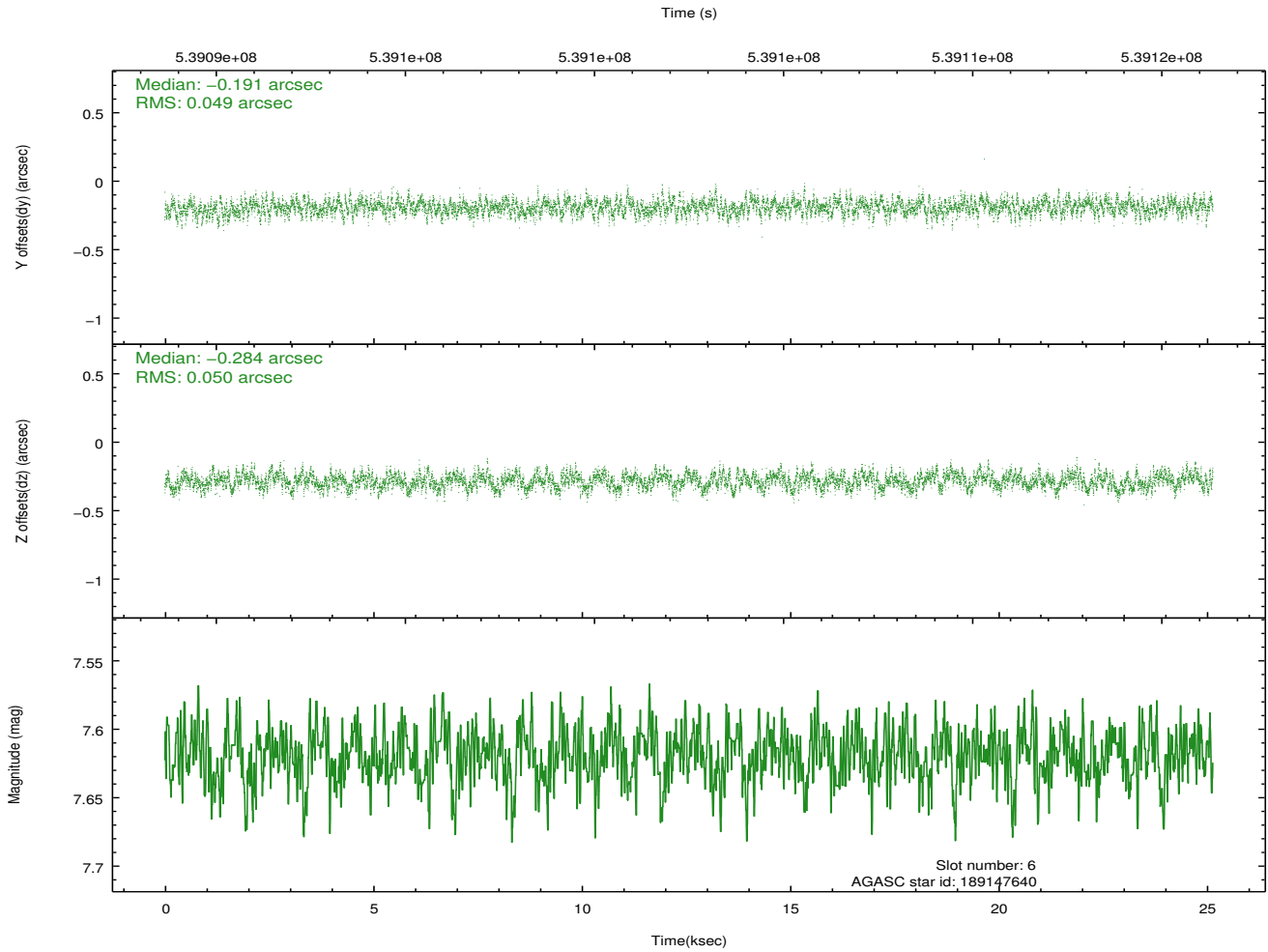
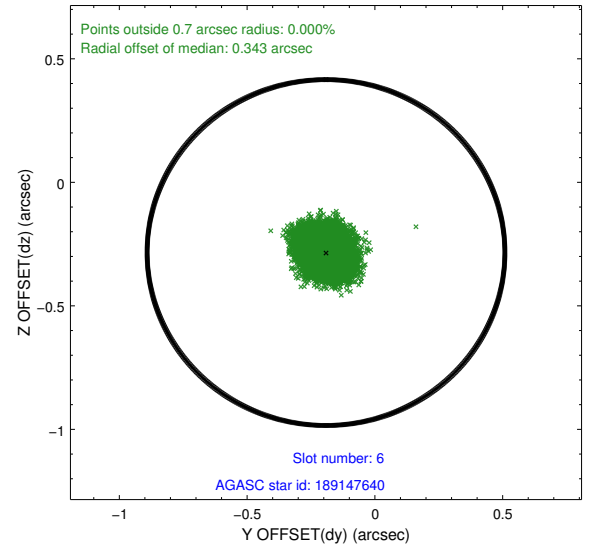
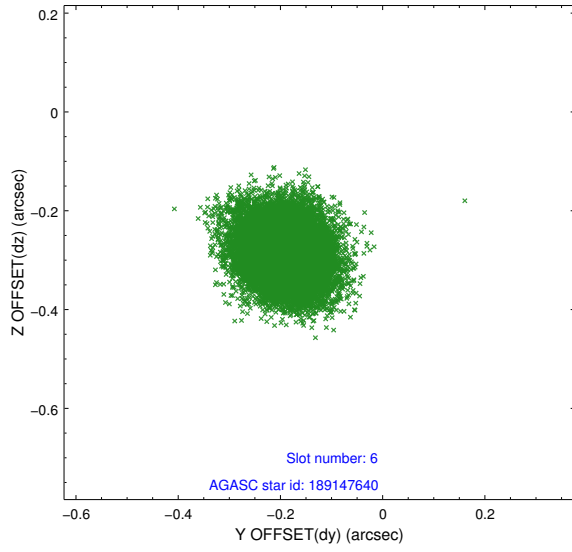
2.4.2 Slot 4



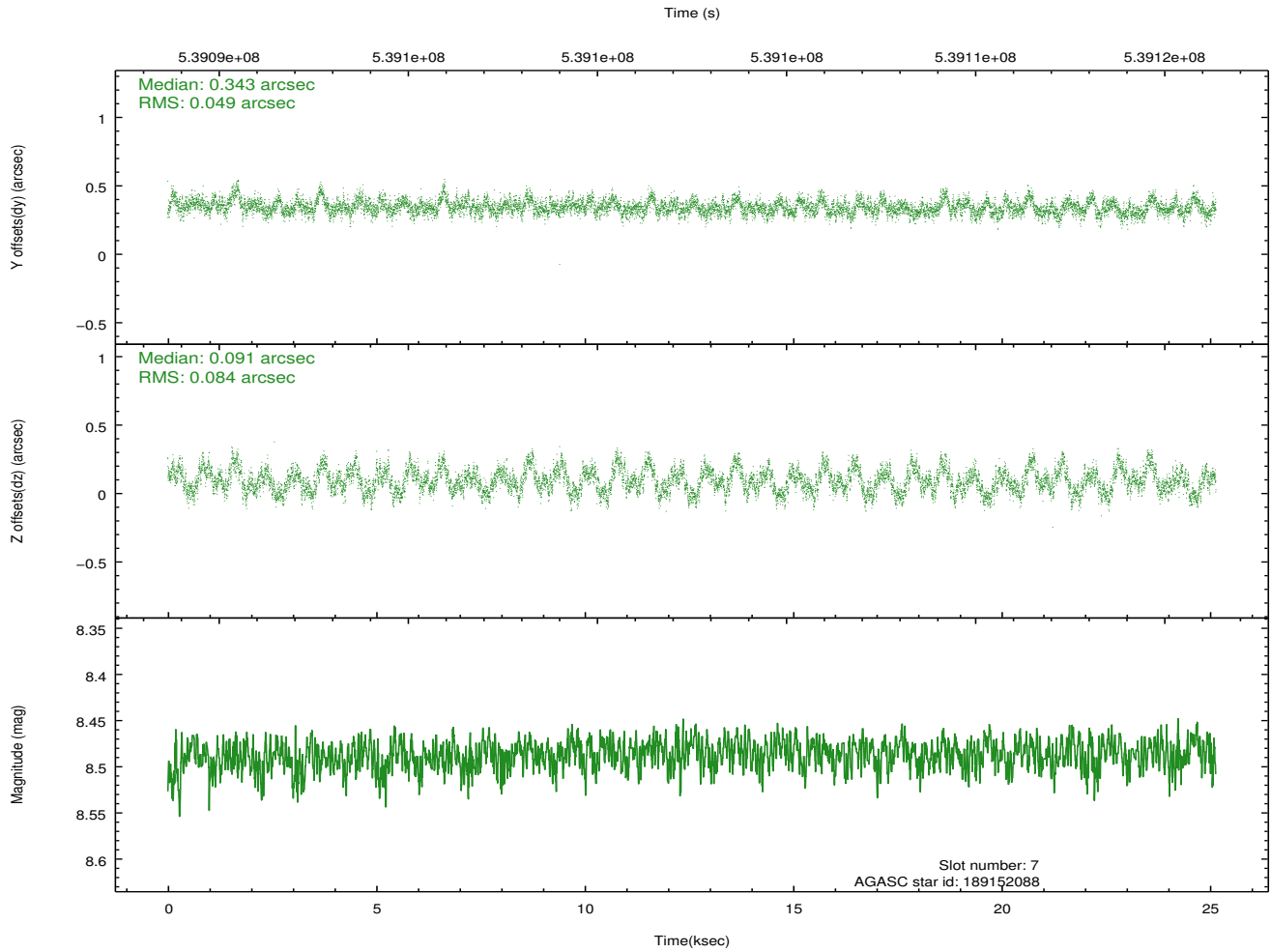
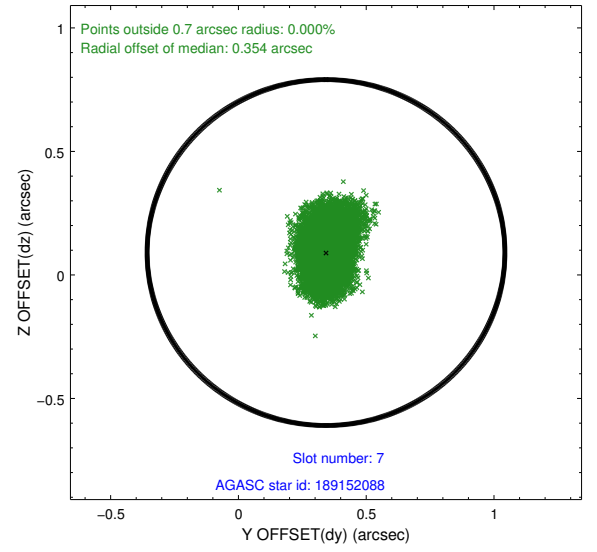
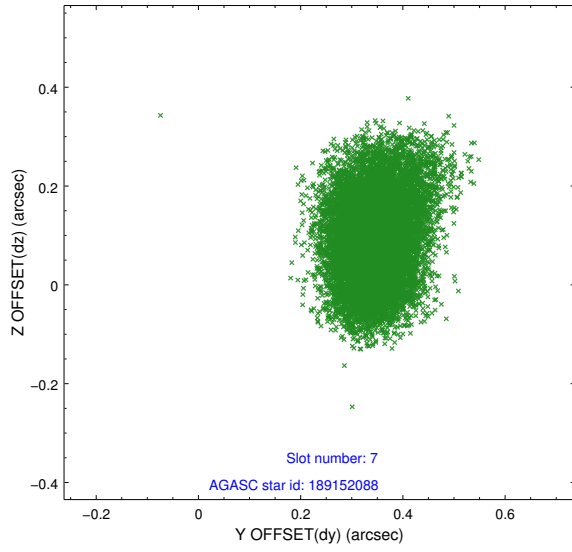
2.4.3 Slot 5



2.4.4 Slot 6

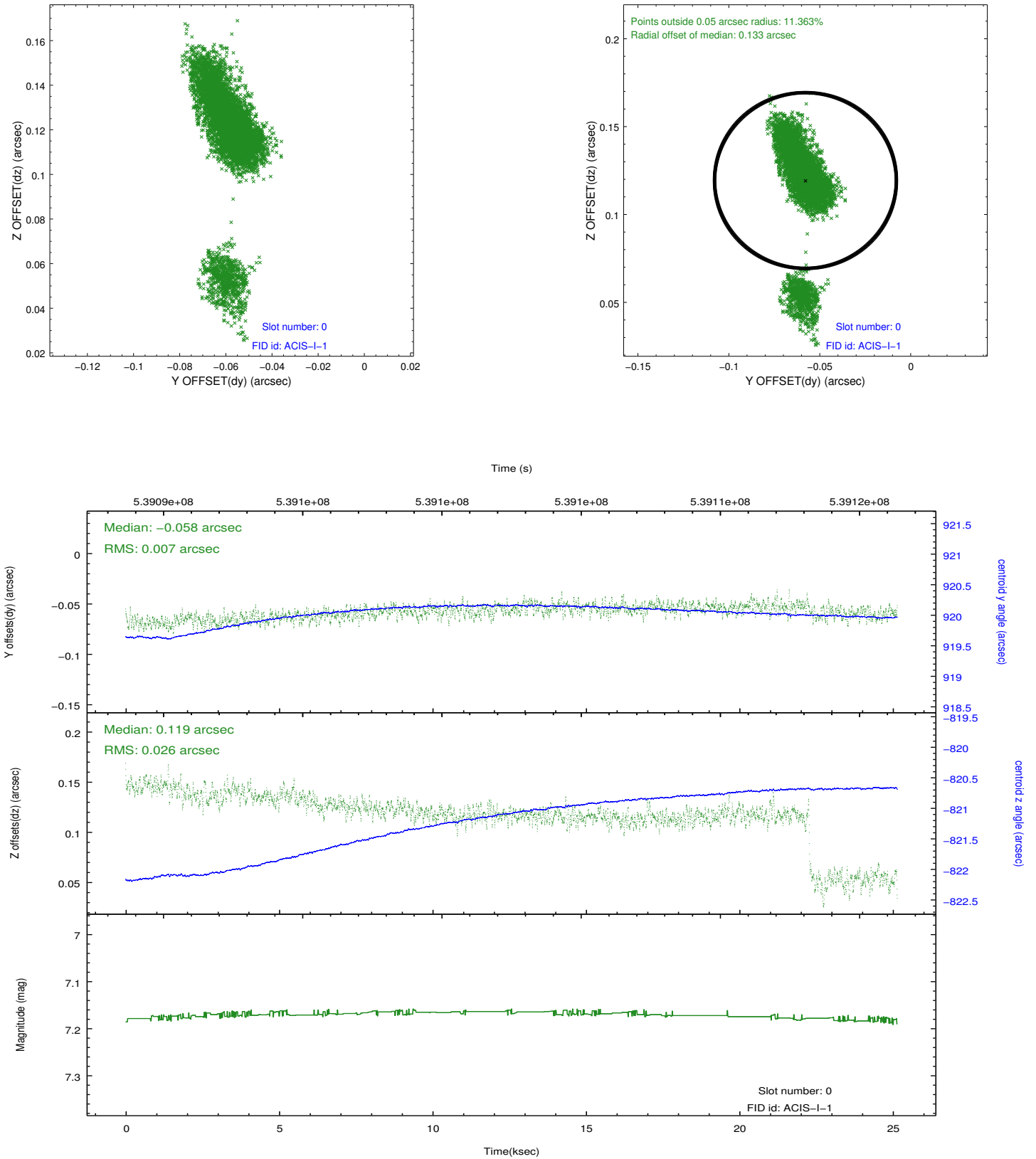


2.4.5 Slot 7

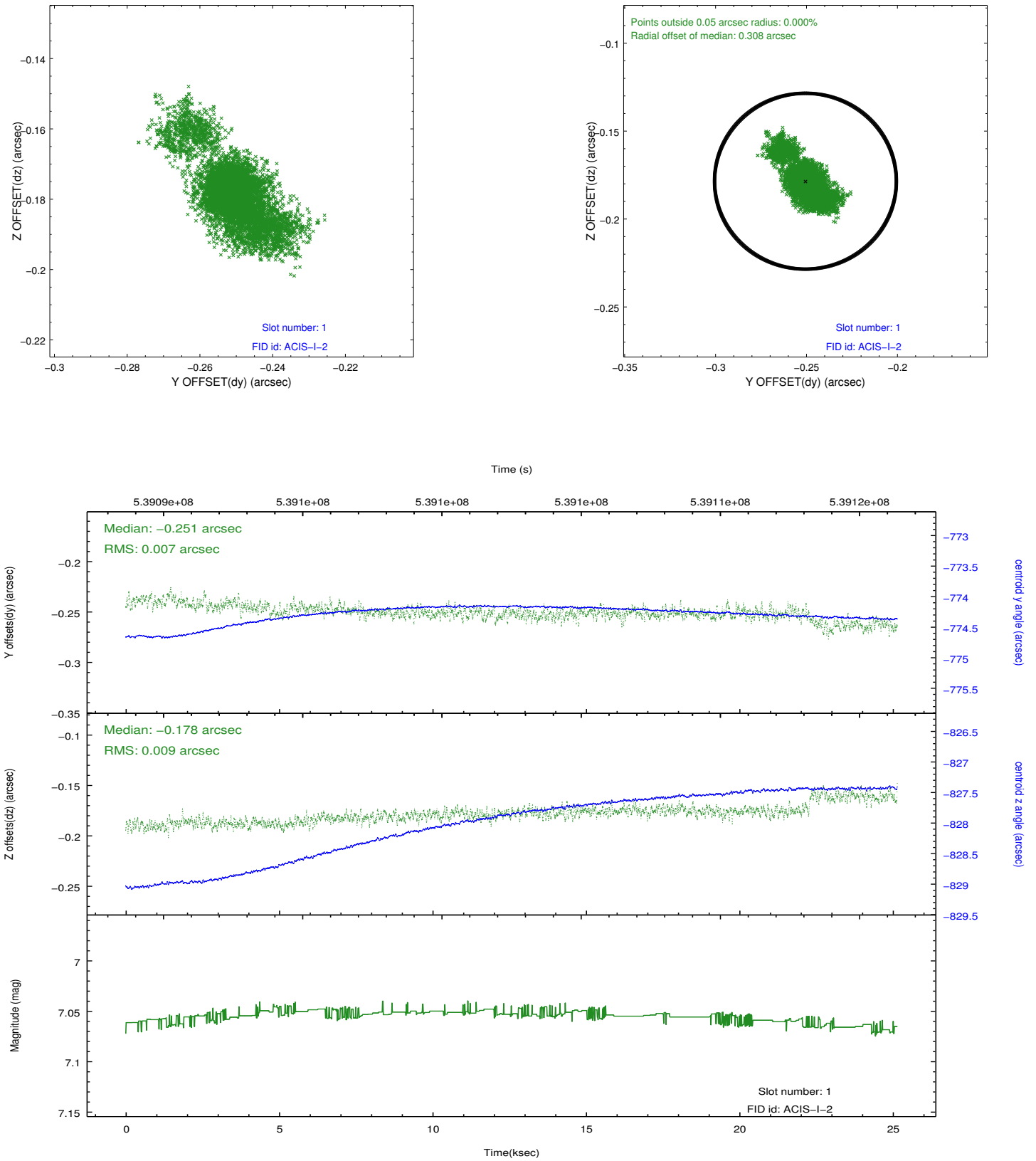


2.5 FID Slots

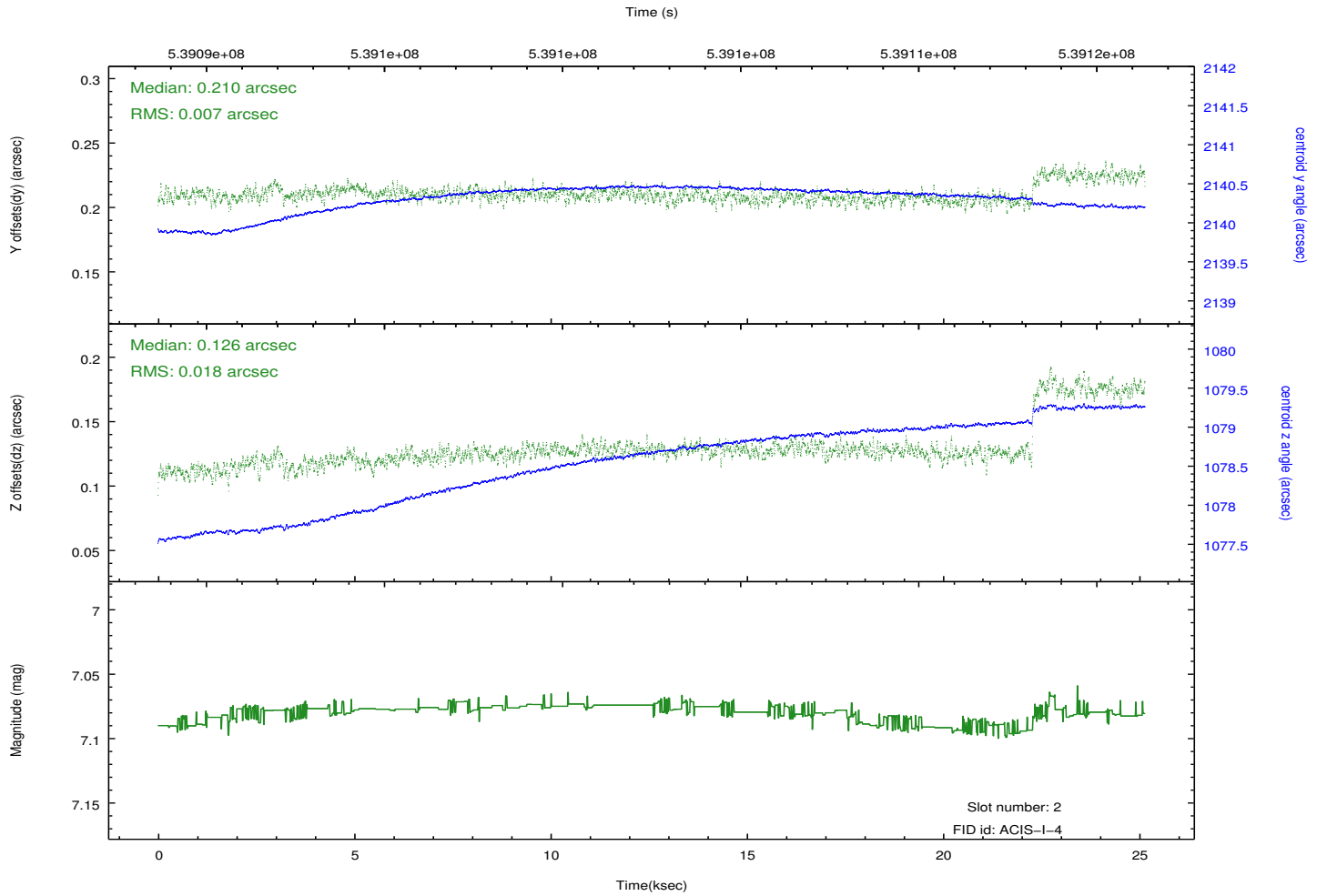
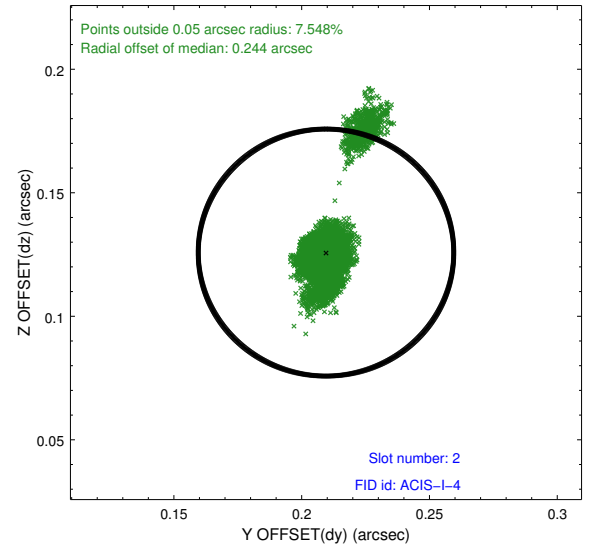
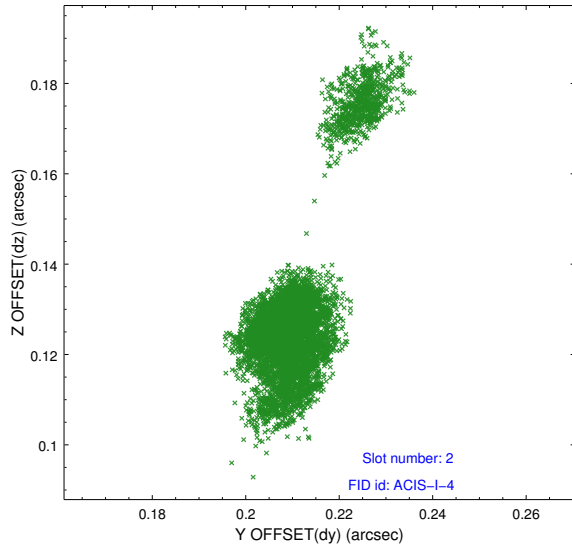
2.5.1 Slot 0



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)	2015.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.082100193024

A.2 Comments