

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21711 - L2 Version 1
Chandra X-Ray Center

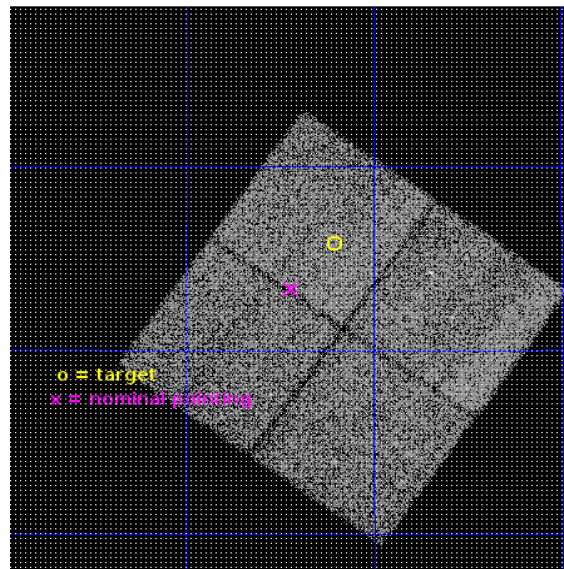
L2 Processing Date : Aug 19 2019

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1 Front

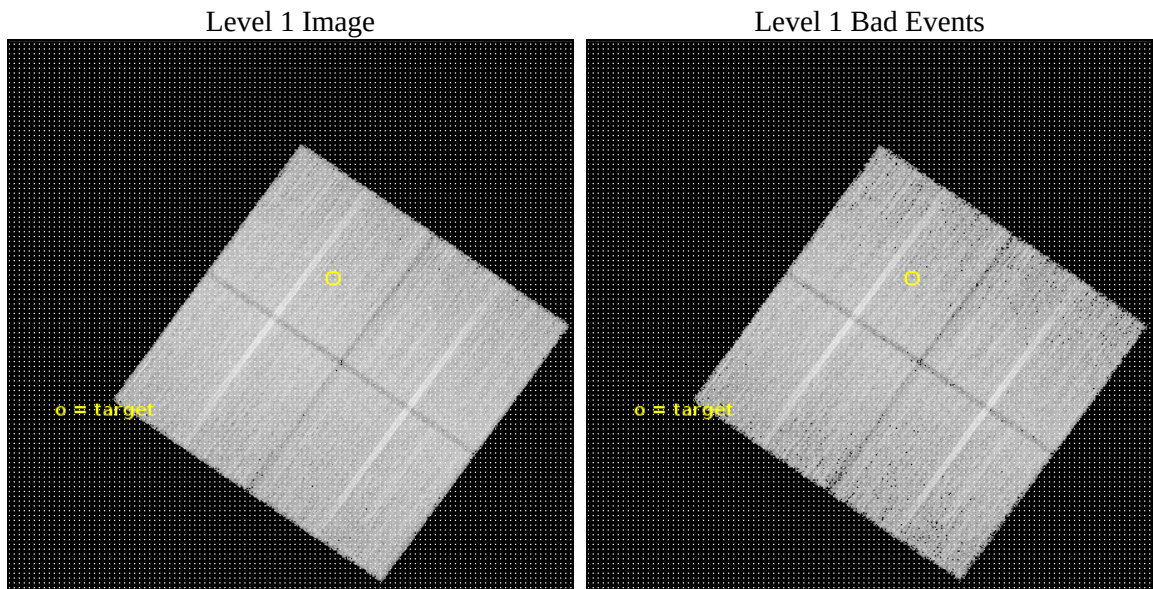
seq_num	801857	Sequence number
obs_id	21711	Observation id
title	Snapshot Survey of LOFAR-selected Galaxy Clusters	Proposal title
observer	Ralph Kraft	Principal investigator
object	MSPM 07299 WHL J122418.6+490549	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.0525	Observer's specified target RA [deg]
dec_targ	49.097222	Observer's specified target Dec [deg]
ra_nom	186.10958601383	Nominal RA [deg]
dec_nom	49.056135494566	Nominal Dec [deg]
roll_nom	305.20124491598	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30076.121514559	Sum of GTIs [s]
livetime	29683.154845253	Livetime [s]
ontime0	30066.575553417	Sum of GTIs [s]
ontime1	30079.180404782	Sum of GTIs [s]
ontime2	30079.221444845	Sum of GTIs [s]
ontime3	30076.121514559	Sum of GTIs [s]
l2events	88155	Number of level 2 events



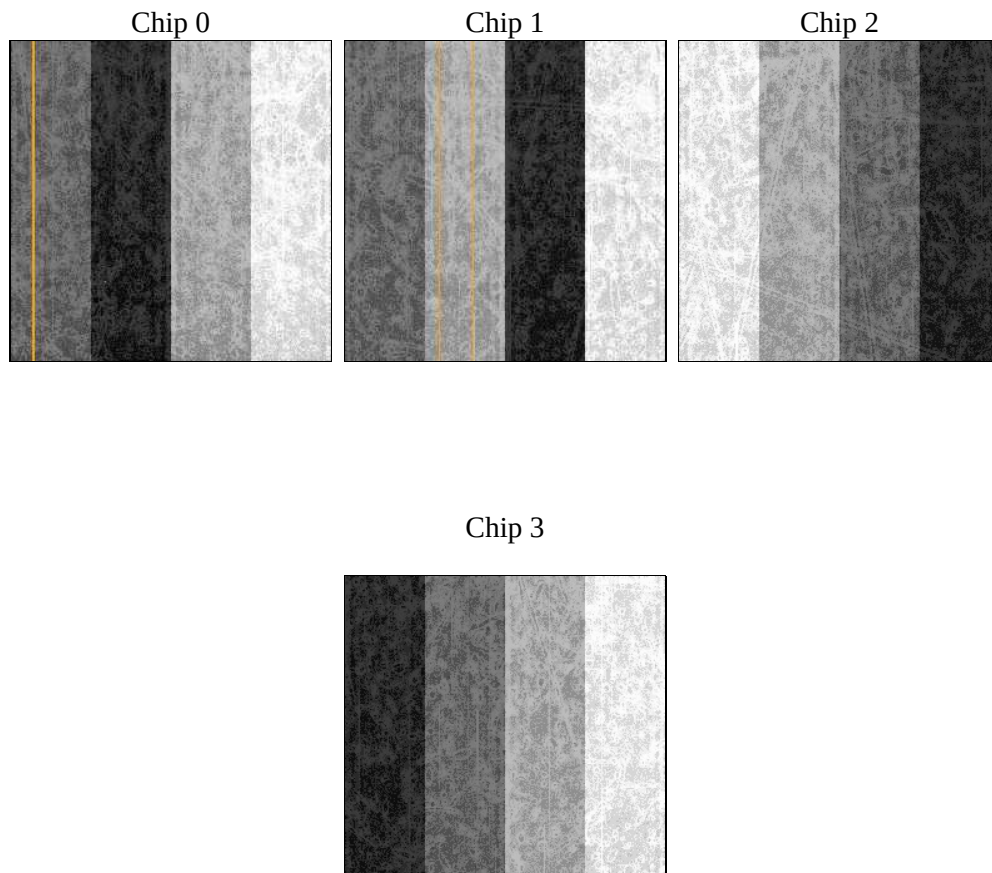
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	30076.121514559	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	30066.575553417	Sum of GTIs [s]
date	2019-08-19T05:49:10	Date and time of file creation	ontime1	30079.180404782	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30079.221444845	Sum of GTIs [s]
			ontime3	30076.121514559	Sum of GTIs [s]
			l1events	859755	Number of level 1 events

2.1.4 Events

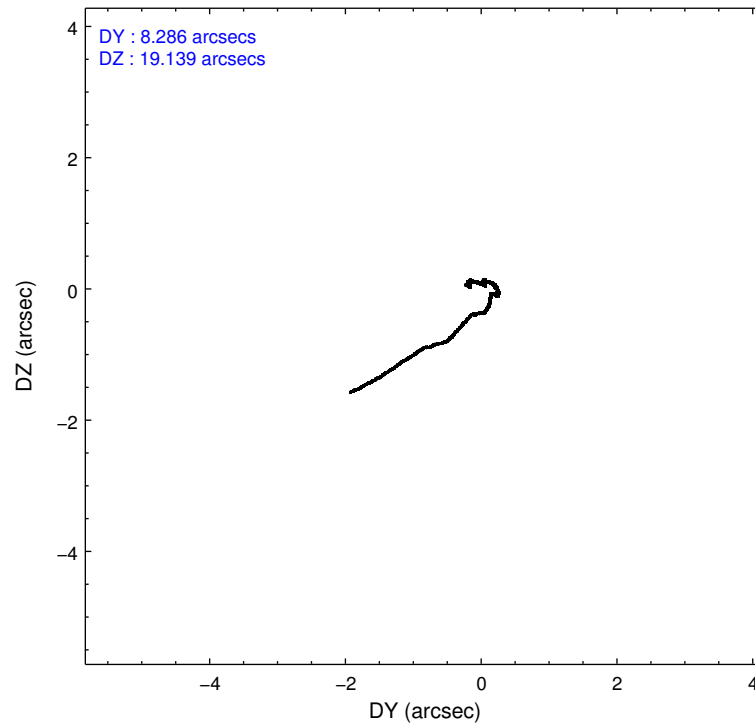
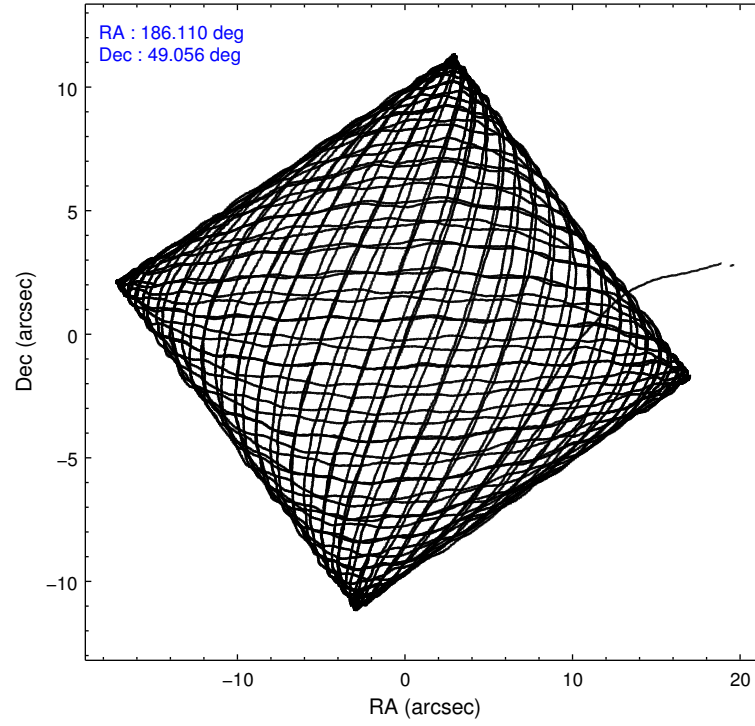
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	202049	212094	227004	218608
rejected events	176330	182568	201532	193183
rejected %	87%	86%	88%	88%

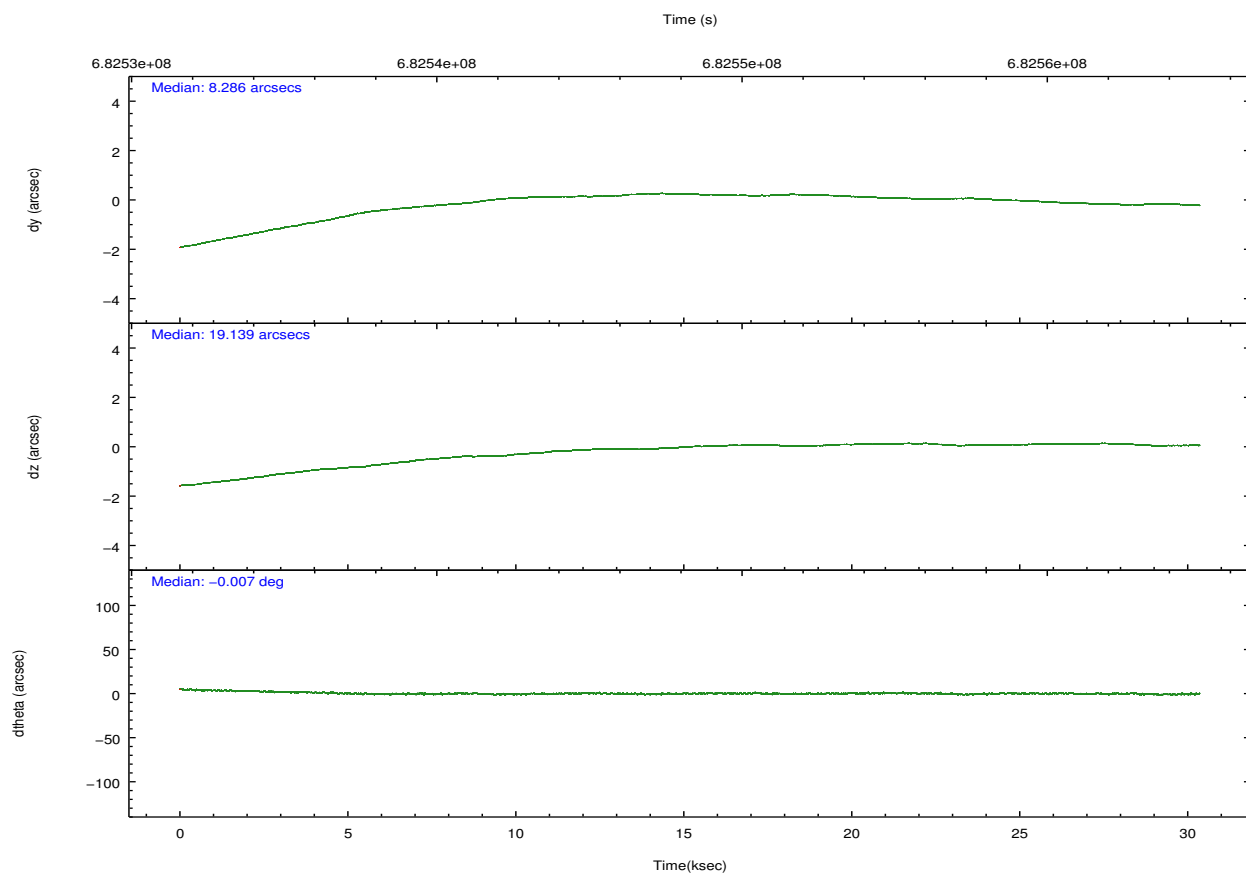
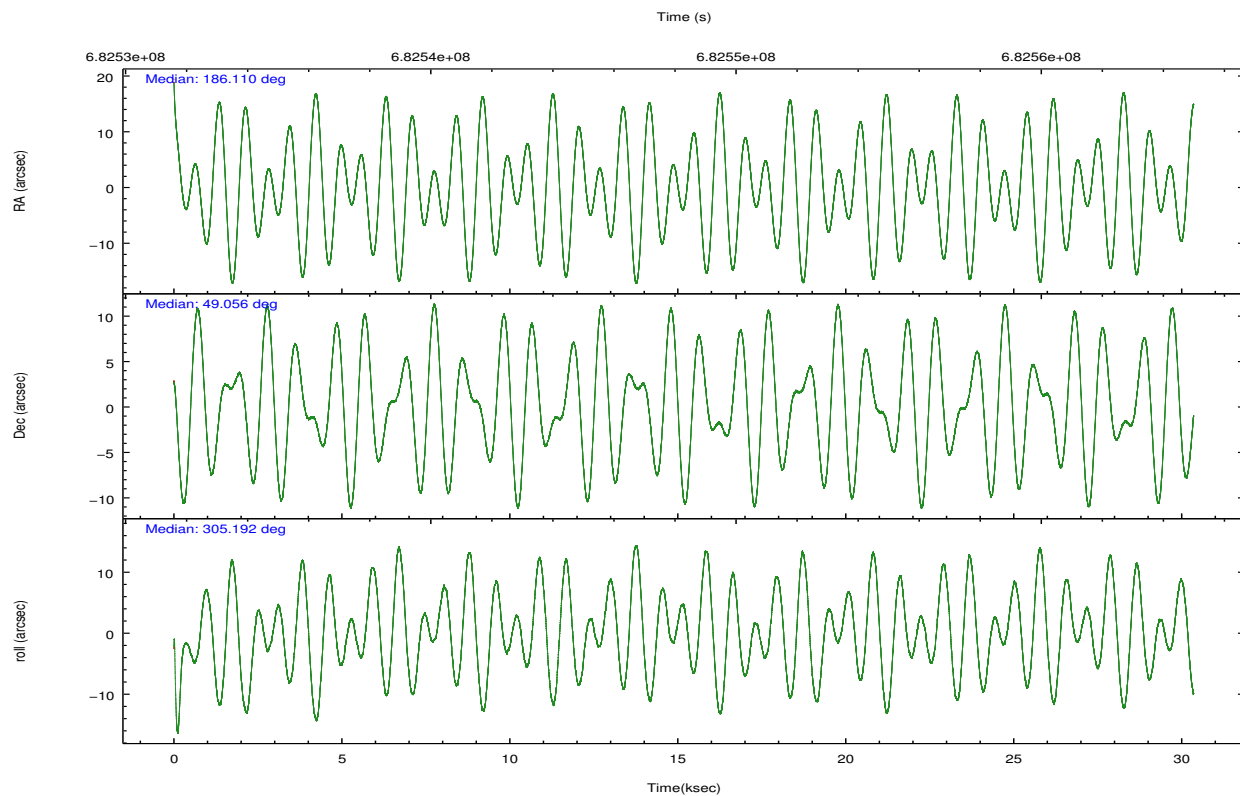
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8862	10600	8870	9894
	4%	4%	3%	4%
grade 1 events	131	121	130	127
	0%	0%	0%	0%
grade 2 events	6656	7396	6488	5524
	3%	3%	2%	2%
grade 3 events	2631	2586	2452	2439
	1%	1%	1%	1%
grade 4 events	2386	2581	2482	2476
	1%	1%	1%	1%
grade 5 events	9644	10378	9310	10945
	4%	4%	4%	5%
grade 6 events	5190	6367	5185	5094
	2%	3%	2%	2%
grade 7 events	166549	172065	192087	182109
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	186.071257	186.1095860138338	CCD I2 on	Y	Y
[deg] Pointing Dec	49.067626	49.05613549456574	CCD I3 on	Y	Y
[deg] Pointing Roll	305.021506	305.2012449159787	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	N
[mm] SIM translation stage pos	-225.842463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	682533488.184000	682532520.82576	CCD S5 on	N	N
Observation start date	2019-08-18T16:36:59	2019-08-18T16:22:00	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	682563488.184000	682564622.29019	On-chip summing requested	N	N
Observation end date	2019-08-19T00:56:59	2019-08-19T01:17:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



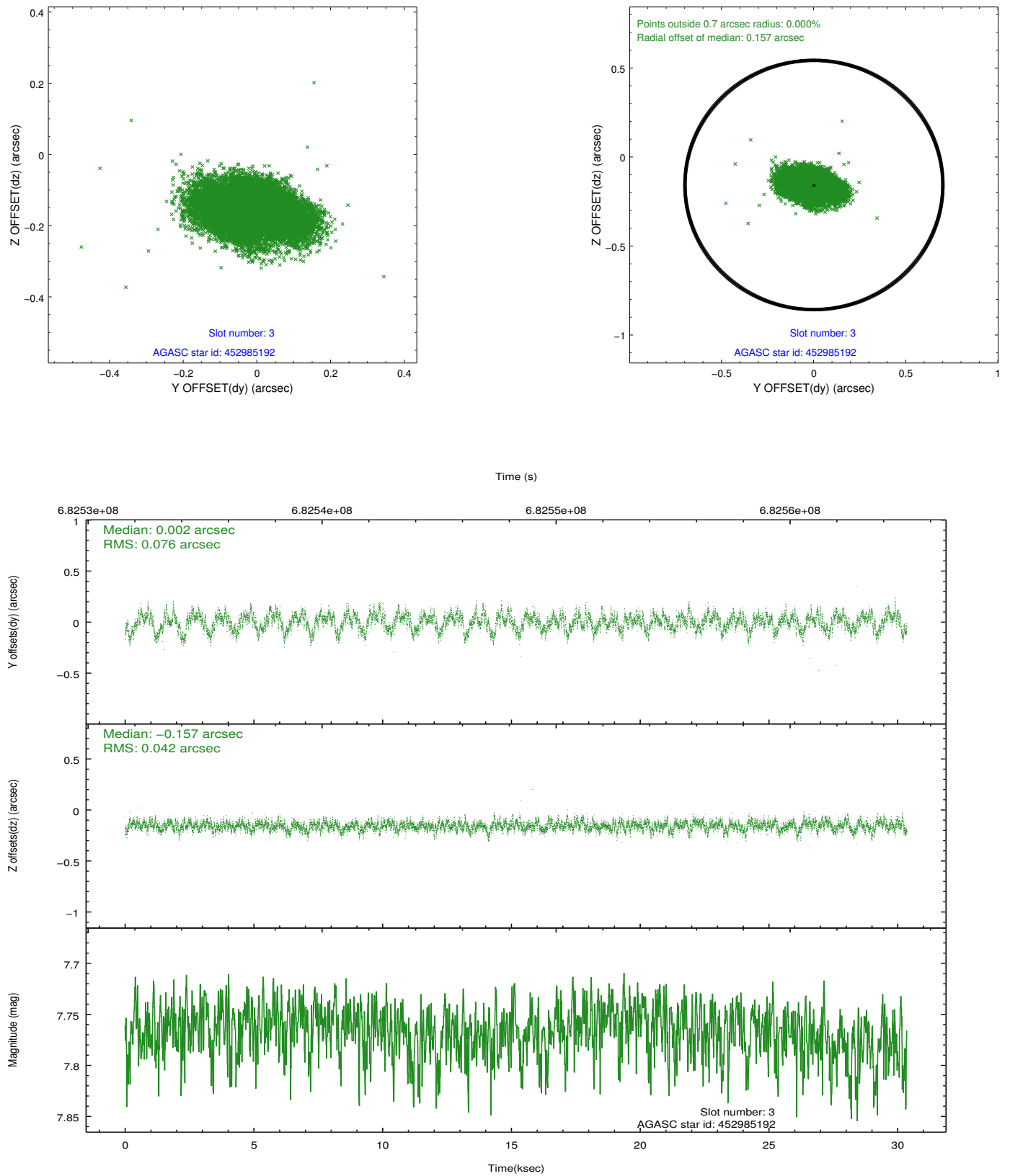


Slot Statistics

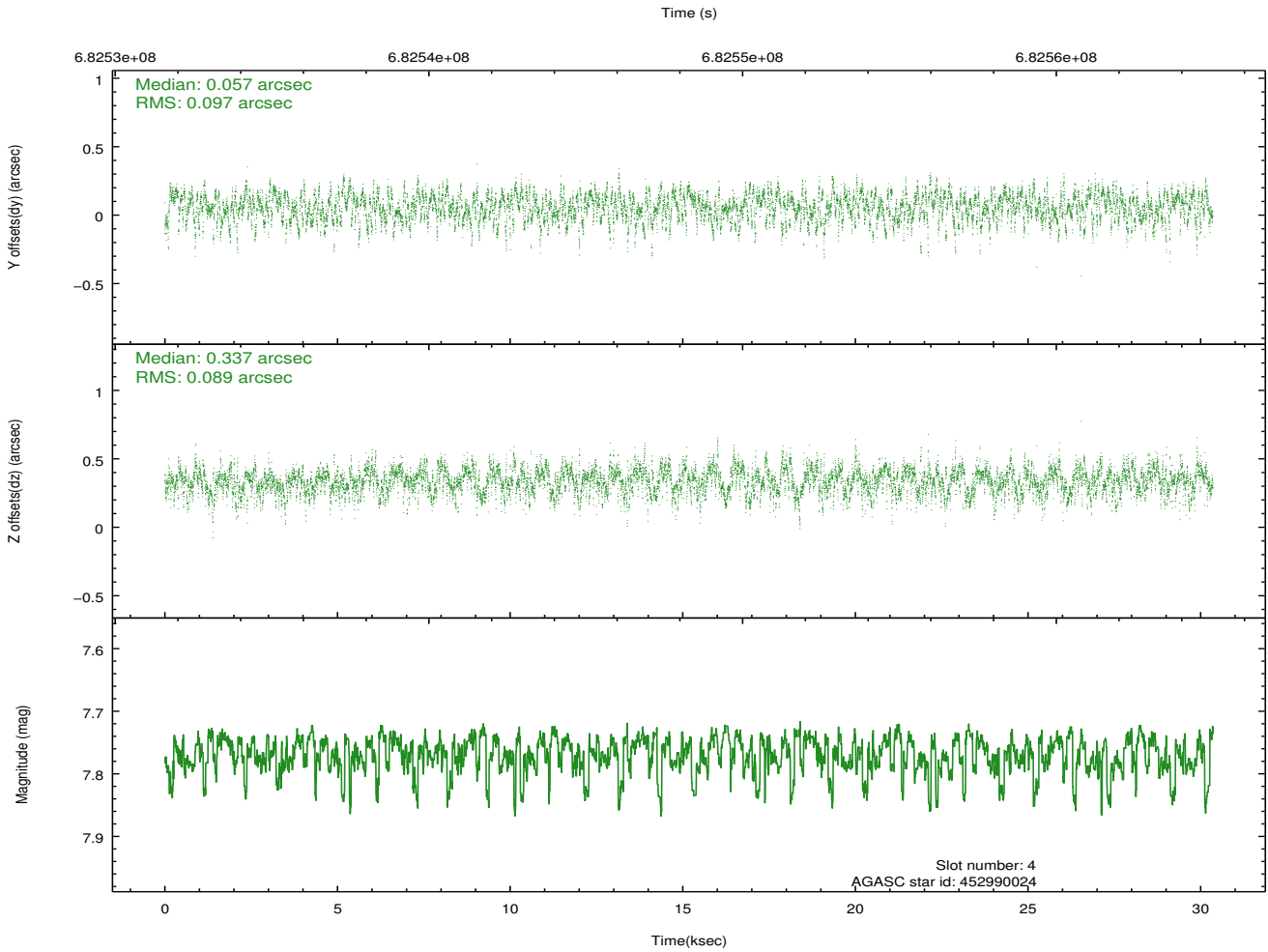
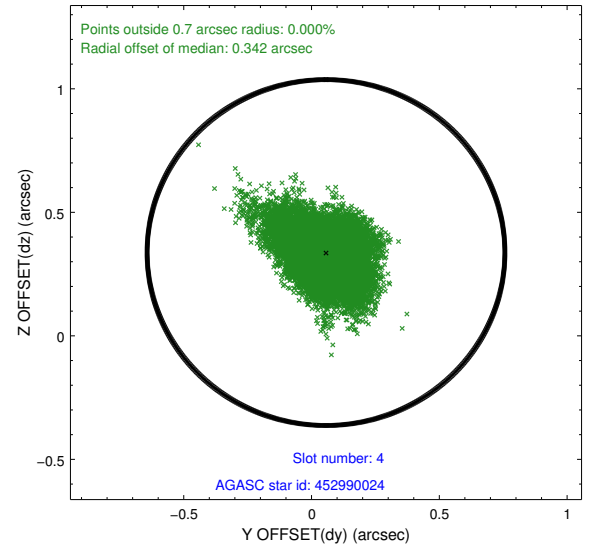
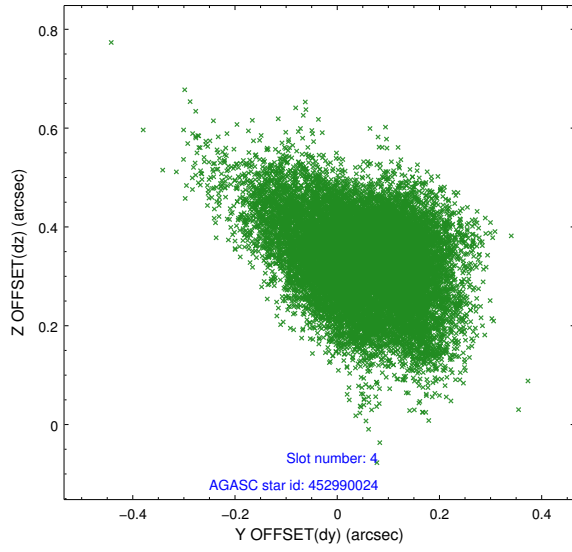
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.10	7405	1.000	0.162	-0.168	0.015	0.028	0.000000	0.000000	931.67	-1001
1	FID		ACIS-I-5	7.07	7405	1.000	-0.438	0.080	0.011	0.032	0.000000	0.000000	-1817.16	895
2	FID		ACIS-I-6	7.11	7405	1.000	0.185	0.159	0.018	0.043	0.000000	0.000000	396.94	1540
3	GUIDE	used	452985192	7.77	14807	1.000	0.002	-0.157	0.091	0.156	186.702512	48.661545	2053.45	393
4	GUIDE	used	452990024	7.77	14807	1.000	0.057	0.337	0.137	0.229	185.637809	48.352861	1510.22	-2324
5	GUIDE	used	453251032	9.19	14783	1.000	0.067	-0.156	0.129	0.206	187.329981	49.029146	1798.38	2366
6	GUIDE	used	453251808	7.73	14807	1.000	-0.067	-0.266	0.079	0.126	187.260218	48.920029	2031.80	2011
7	GUIDE	used	452988152	7.62	14802	1.000	-0.053	0.250	0.097	0.155	186.367086	48.371212	2458.95	-859

2.4 Star Slots

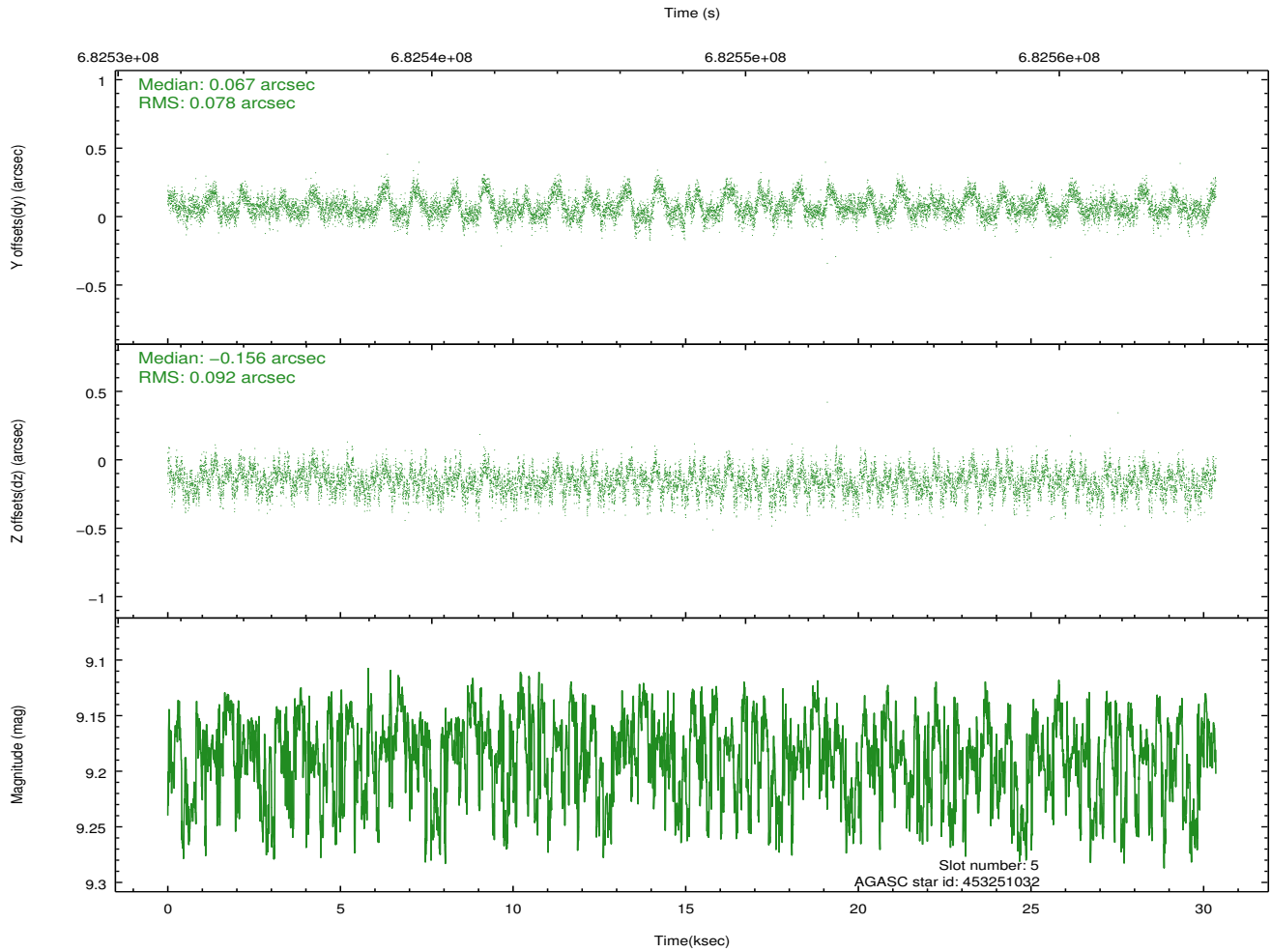
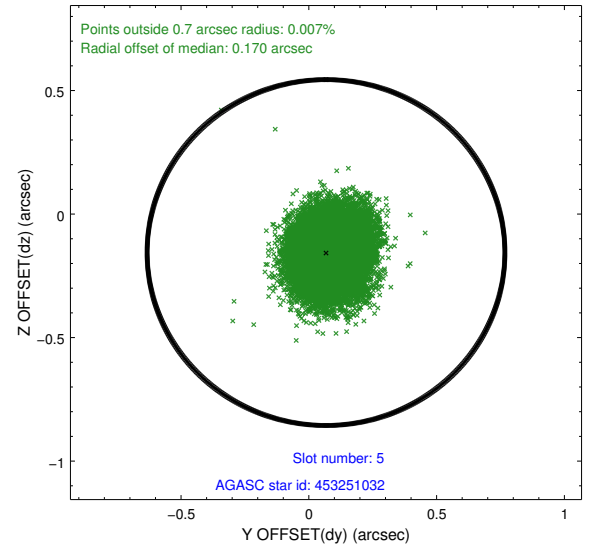
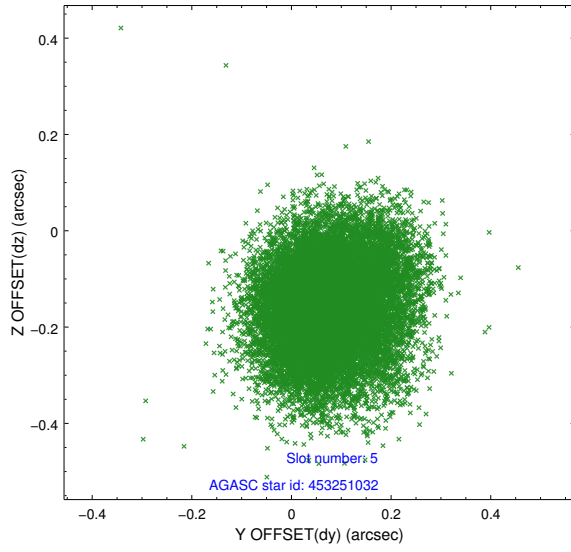
2.4.1 Slot 3



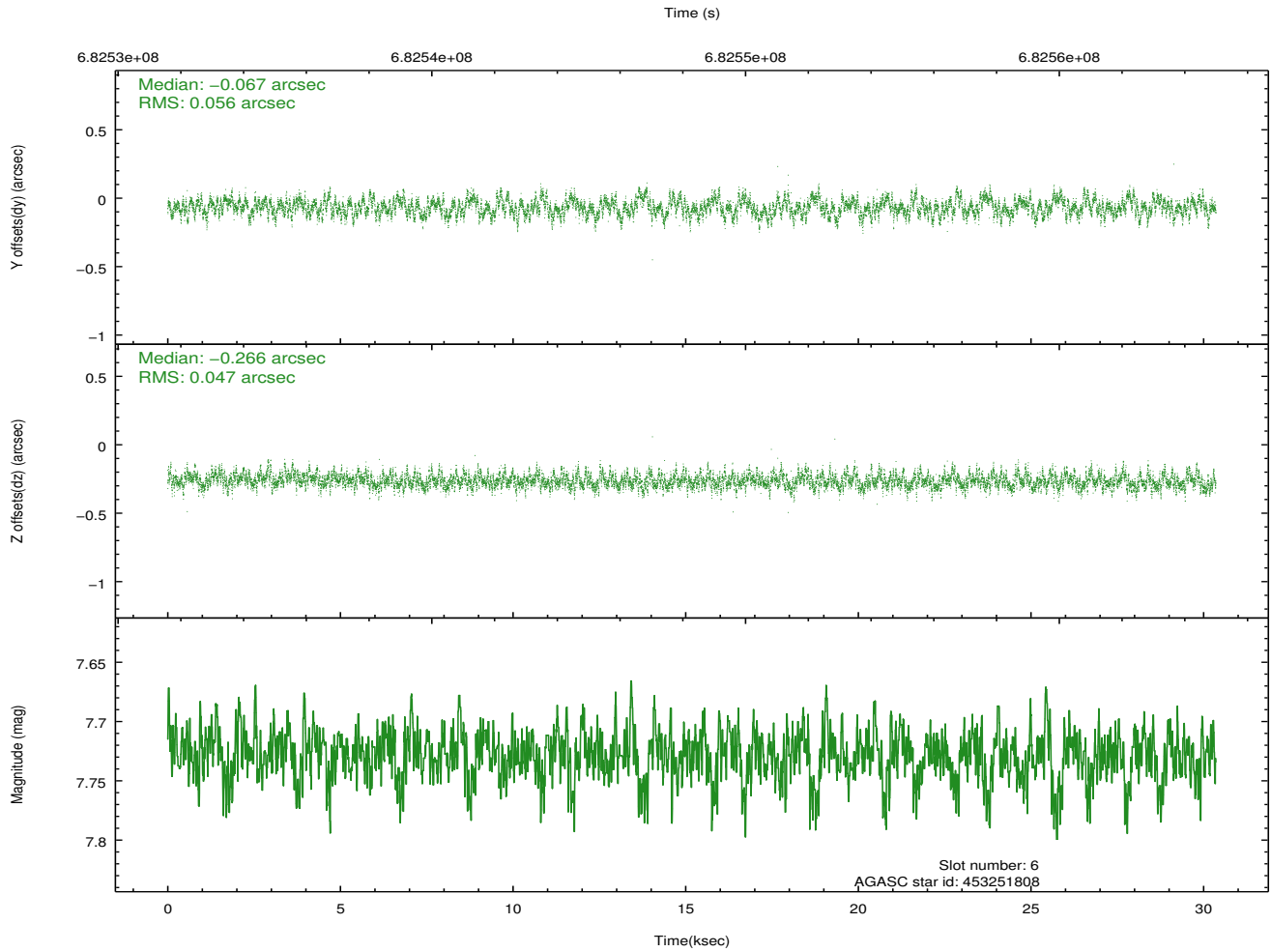
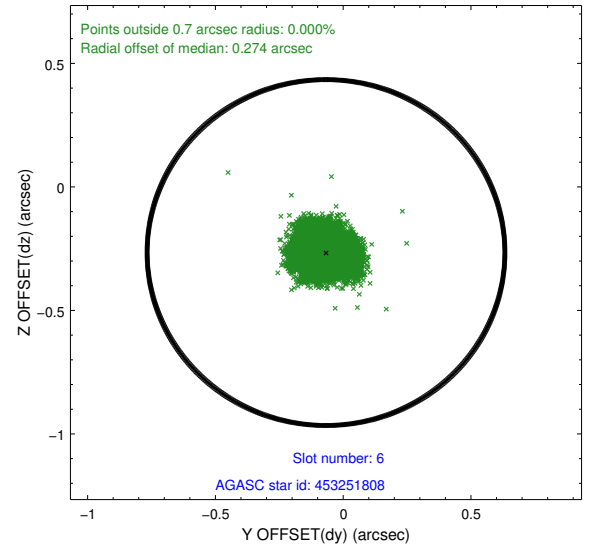
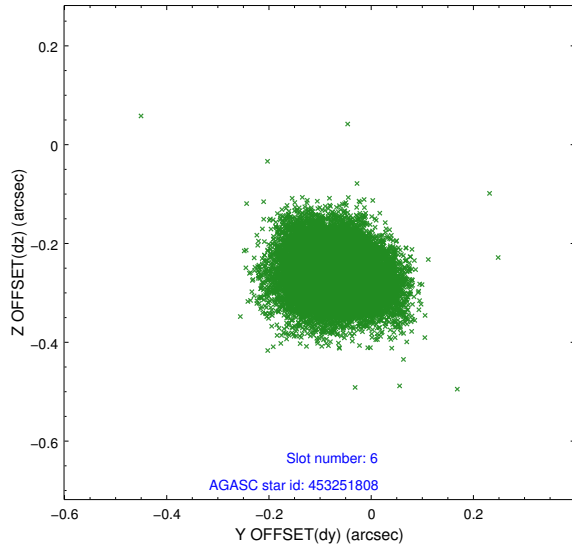
2.4.2 Slot 4



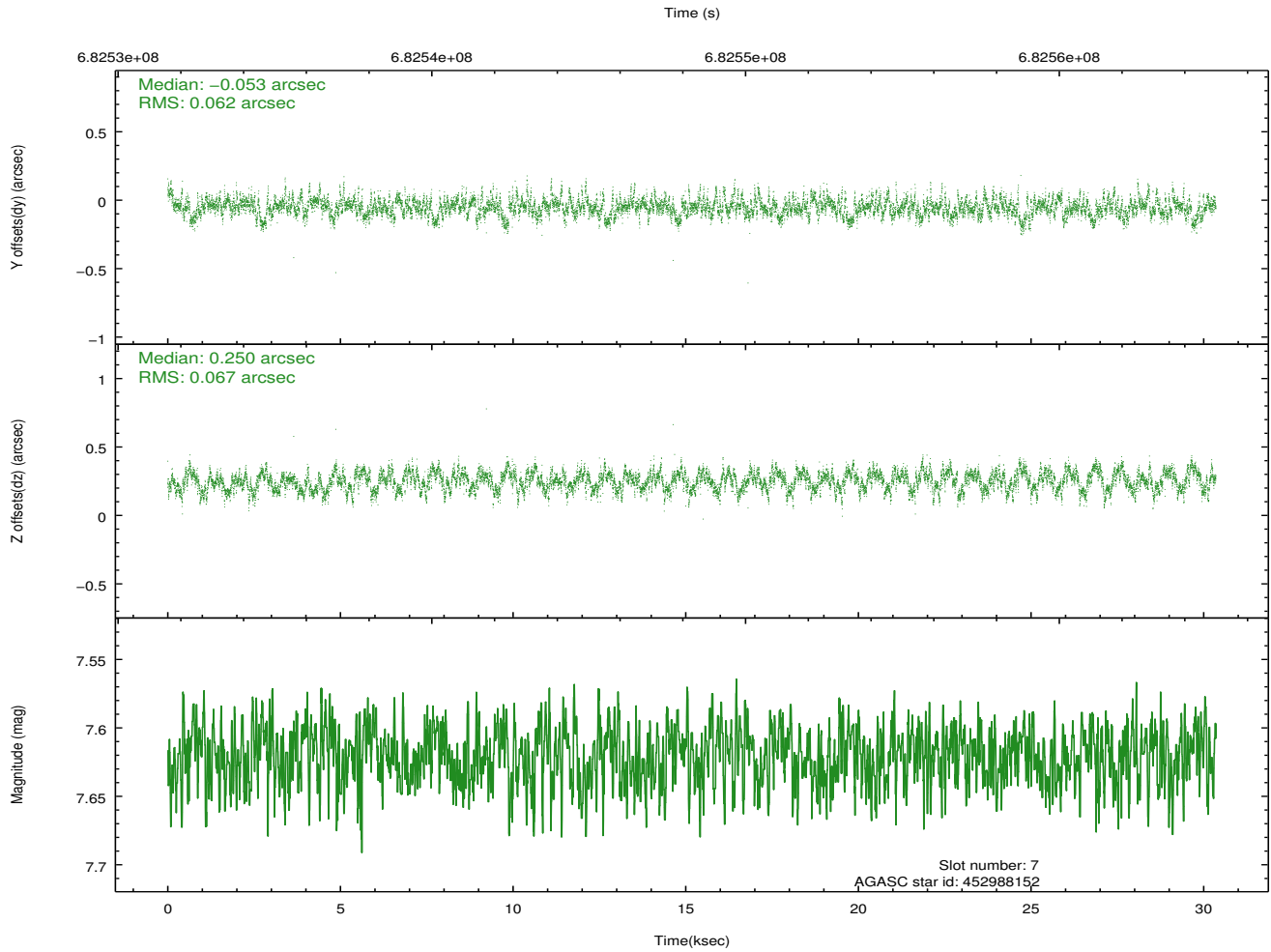
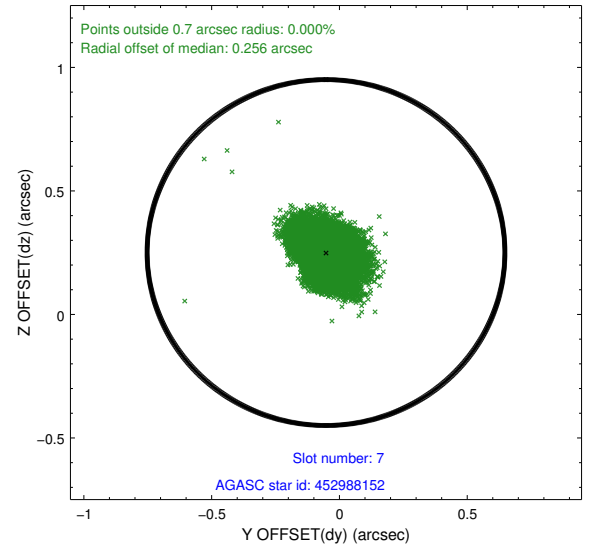
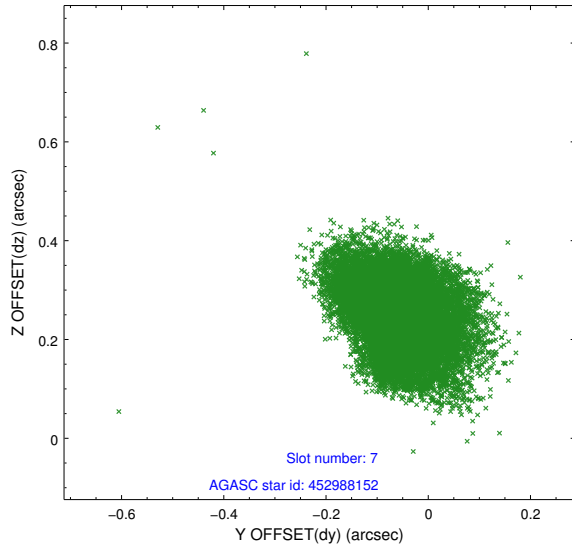
2.4.3 Slot 5



2.4.4 Slot 6

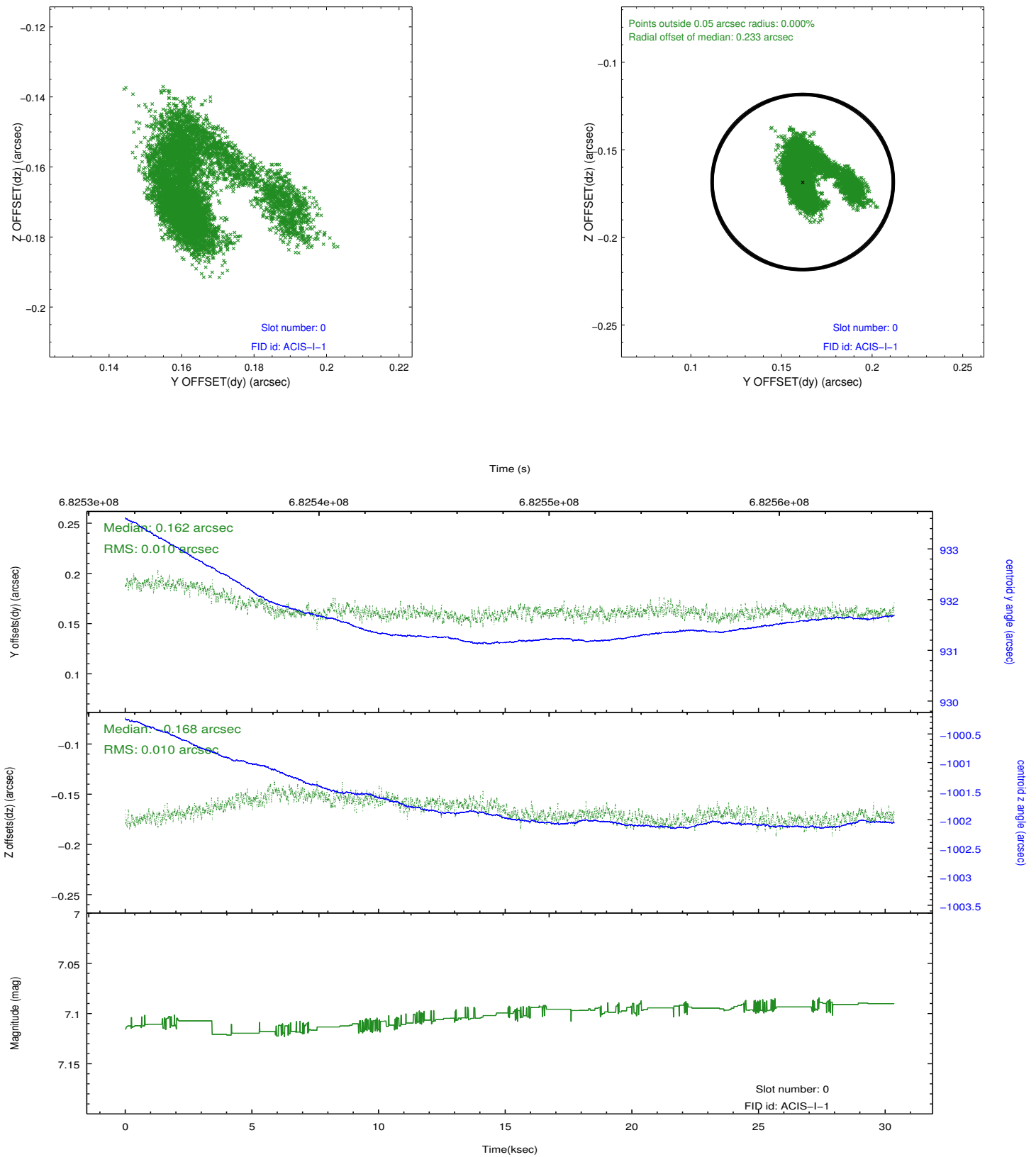


2.4.5 Slot 7

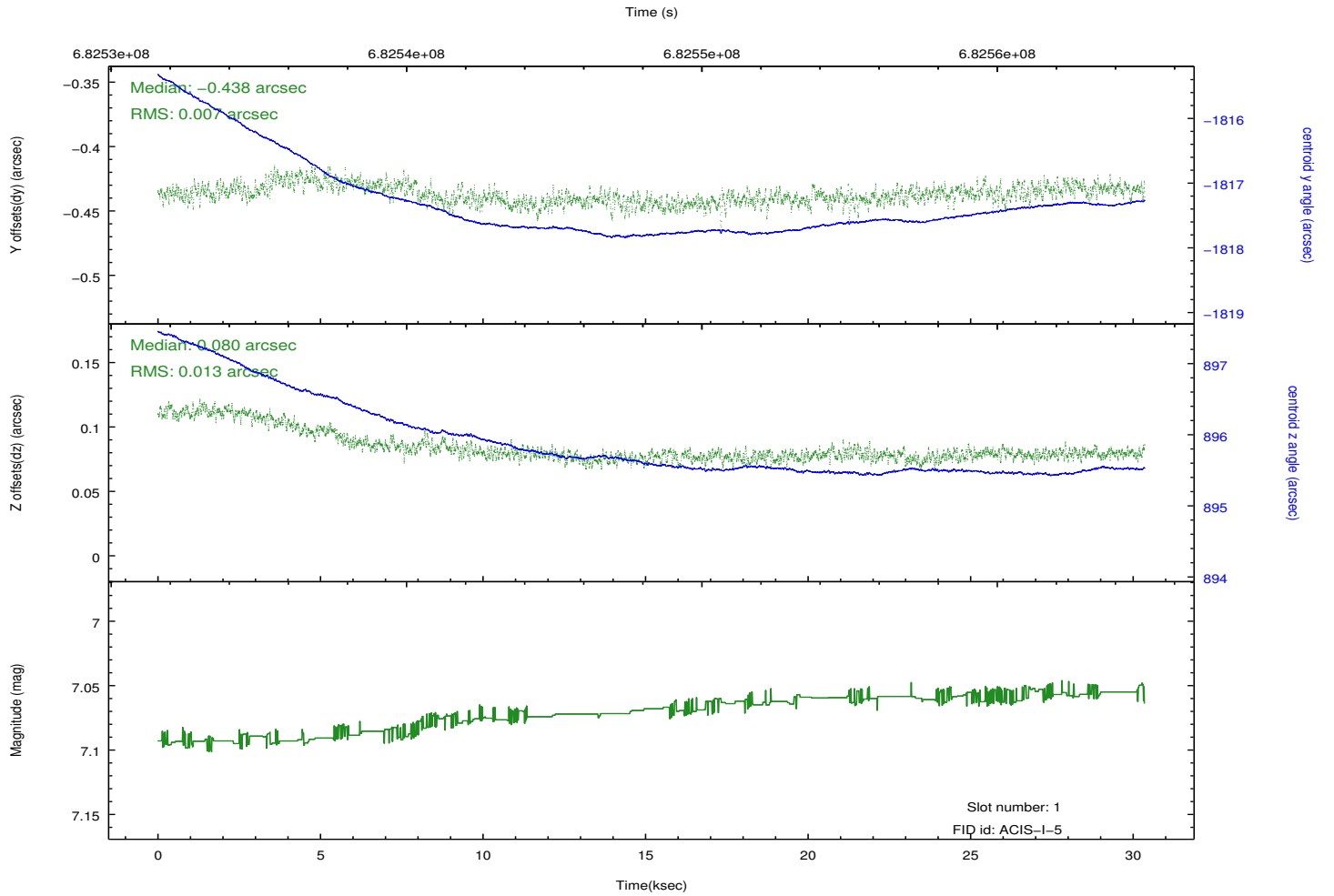
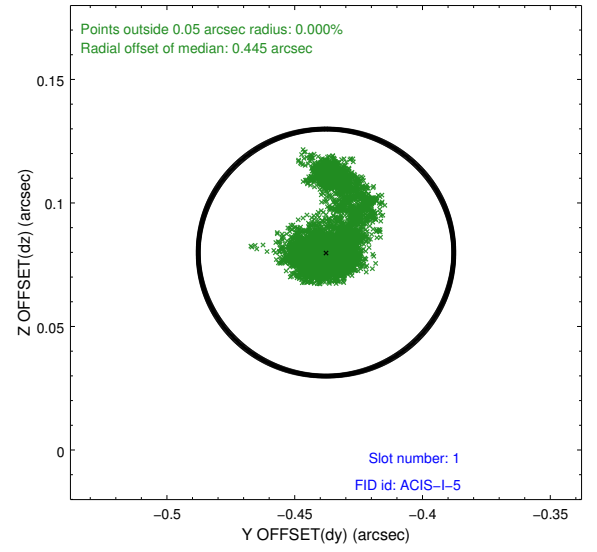
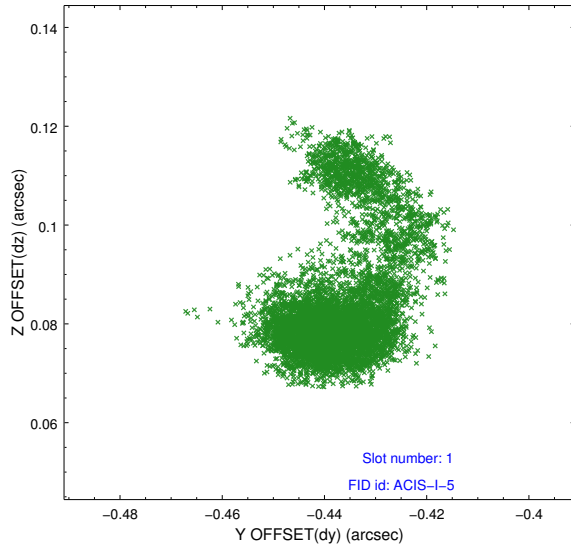


2.5 FID Slots

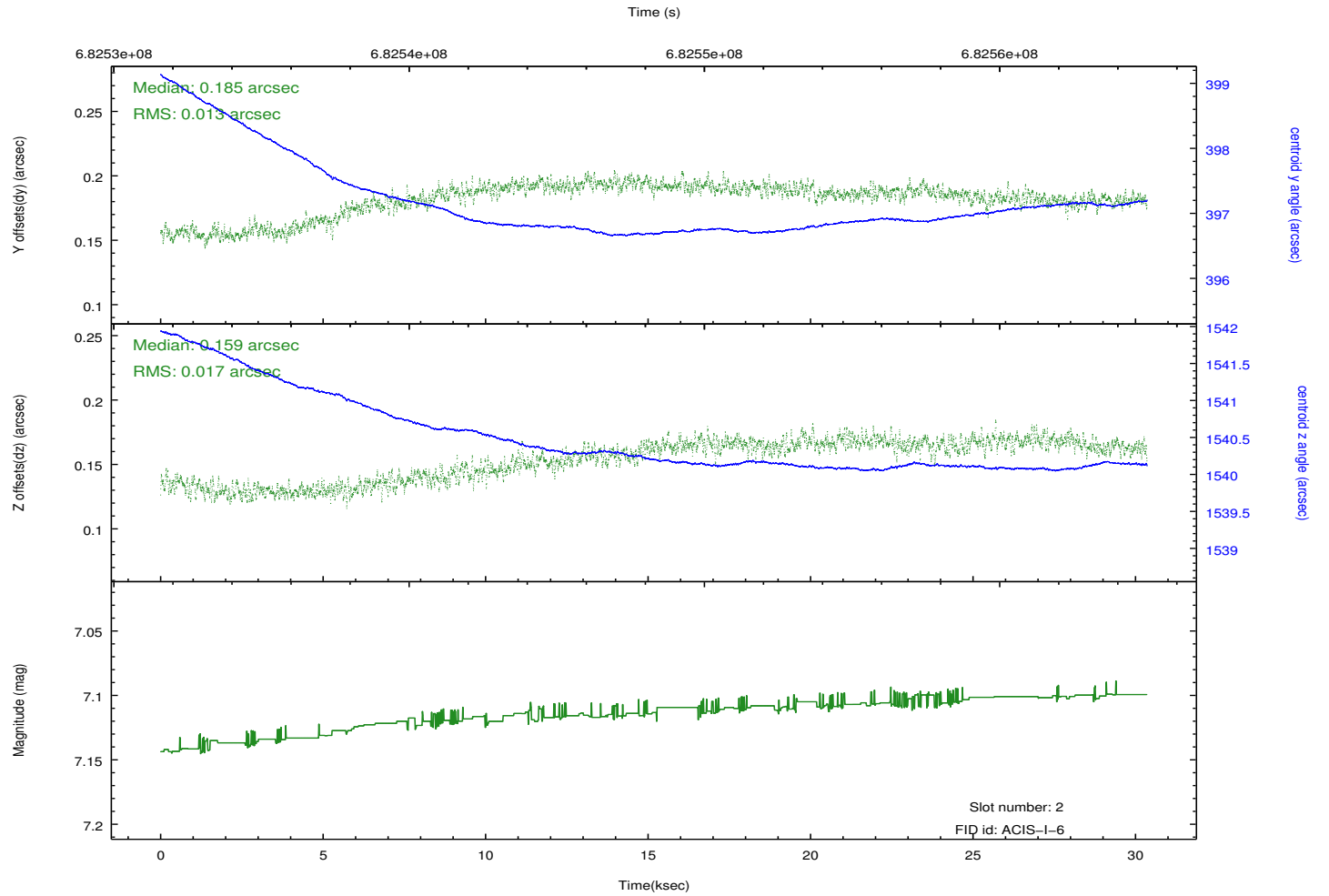
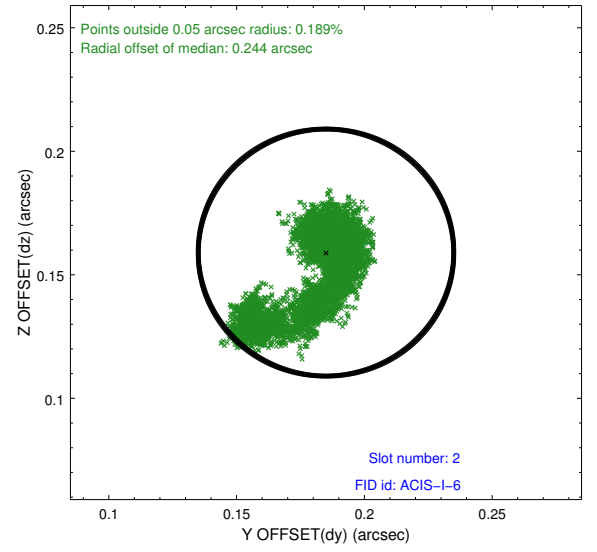
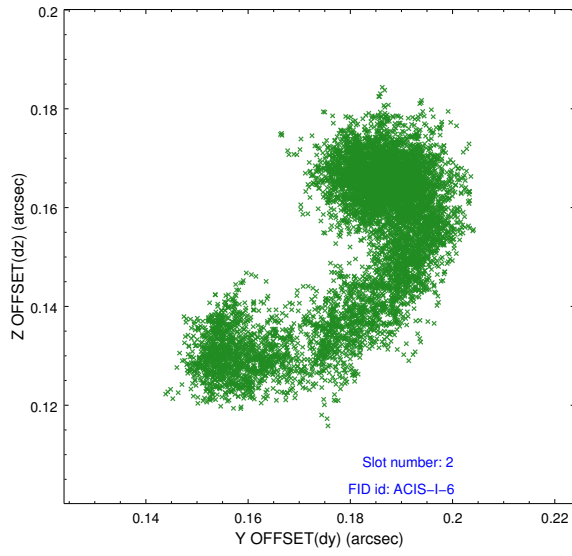
2.5.1 Slot 0



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)	2019.08.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.076121514559

A.2 Comments