

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18300 - L2 Version 2
Chandra X-Ray Center

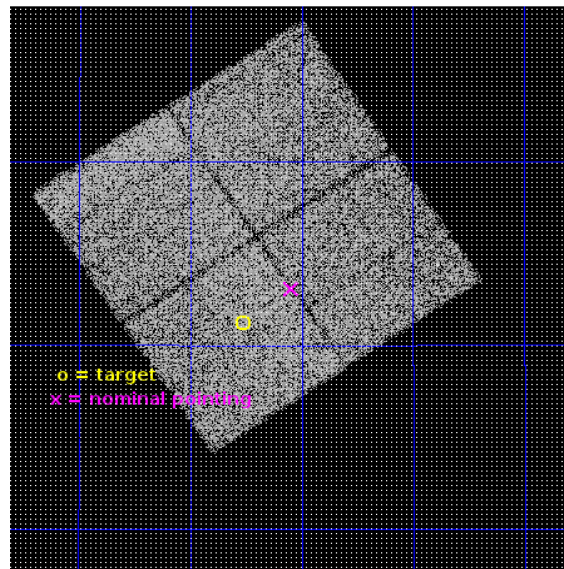
L2 Processing Date : Feb 28 2017

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1 Front

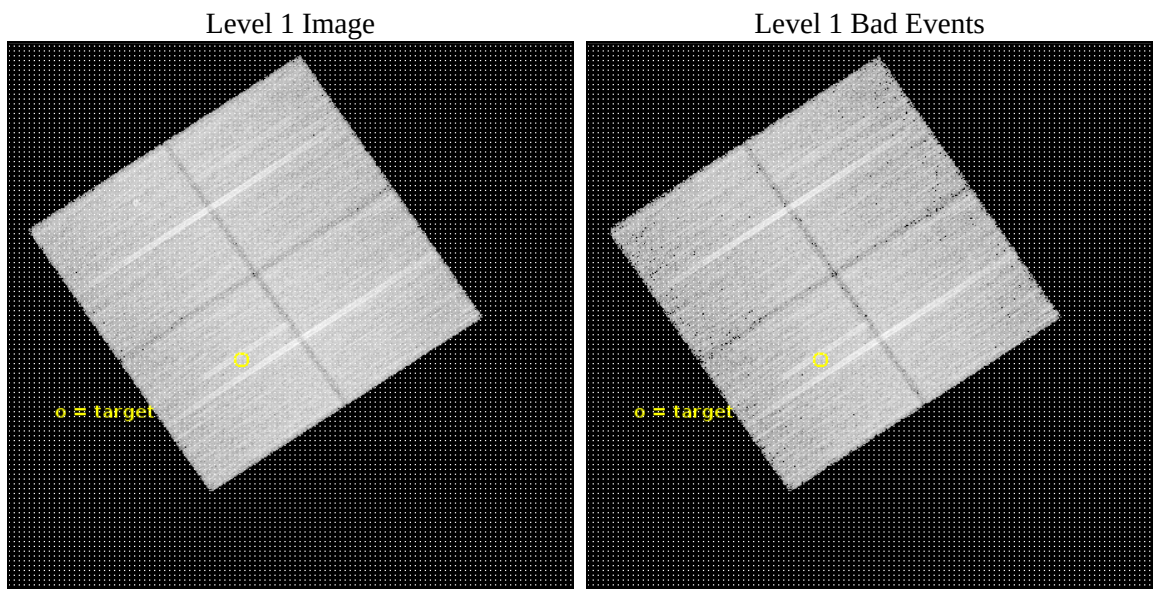
seq_num	801618	Sequence number
obs_id	18300	Observation id
title	Determining the Universality of f _{gas} at High Redshift	Proposal ti
observer	Mark Brodwin	Principal investigator
object	MOO J1155+3901	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.94	Observer's specified target RA [deg]
dec_targ	39.020833	Observer's specified target Dec [deg]
ra_nom	178.88641106608	Nominal RA [deg]
dec_nom	39.051497024402	Nominal Dec [deg]
roll_nom	146.24241561267	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34081.400262237	Sum of GTIs [s]
livetime	33636.101677449	Livetime [s]
ontime0	34081.400262237	Sum of GTIs [s]
ontime1	34075.118181229	Sum of GTIs [s]
ontime2	34075.118121386	Sum of GTIs [s]
ontime3	34081.400262237	Sum of GTIs [s]
l2events	88209	Number of level 2 events



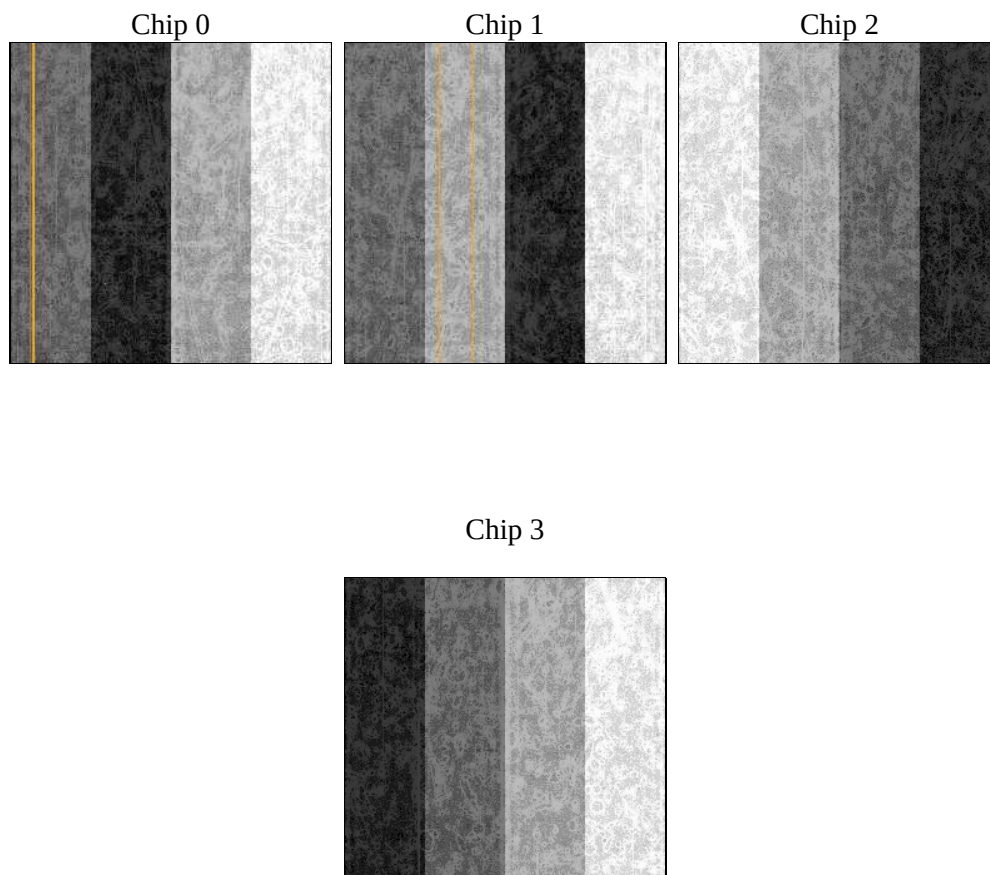
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	34081.400262237	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	34081.400262237	Sum of GTIs [s]
date	2017-02-28T19:04:51	Date and time of file creation	ontime1	34075.118181229	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34075.118121386	Sum of GTIs [s]
			ontime3	34081.400262237	Sum of GTIs [s]
			l1events	942614	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	220790	226906	249301	245617
rejected events	194329	197423	224005	220833
rejected %	88%	87%	89%	89%

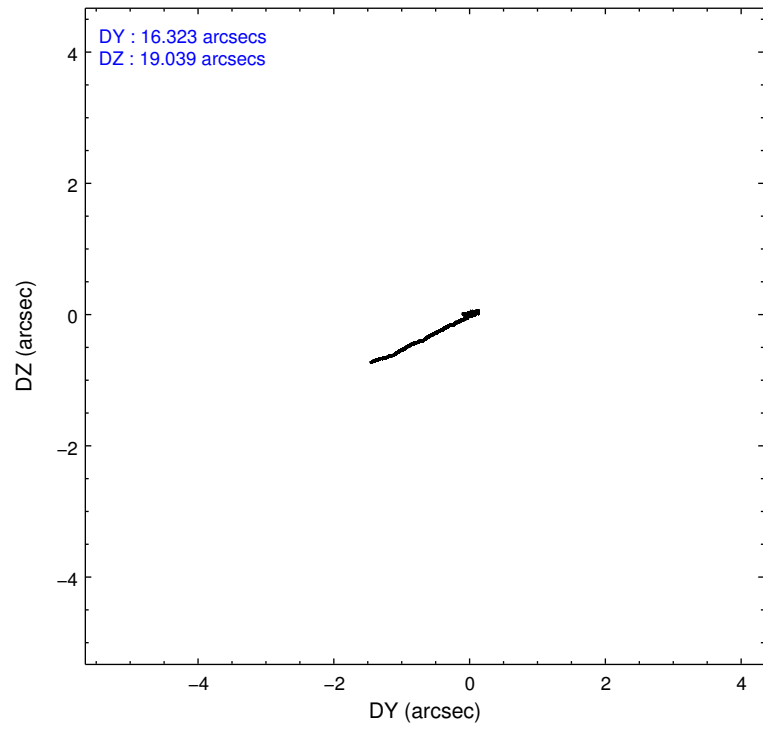
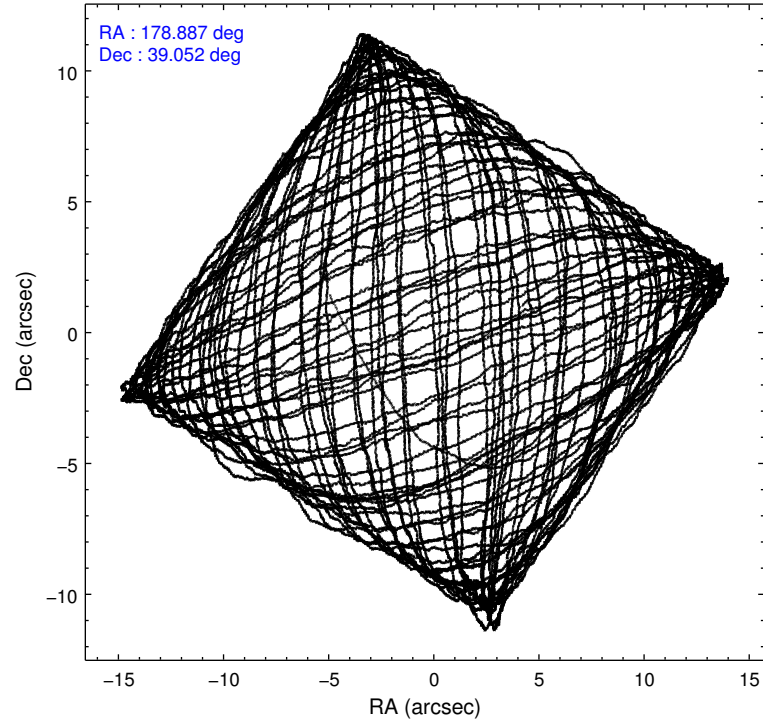
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8865	9786	8734	8503
	4%	4%	3%	3%
grade 1 events	117	112	153	118
	0%	0%	0%	0%
grade 2 events	6622	7402	6177	5531
	2%	3%	2%	2%
grade 3 events	2693	2803	2589	2646
	1%	1%	1%	1%
grade 4 events	2596	2667	2630	2682
	1%	1%	1%	1%
grade 5 events	10421	10446	9376	11629
	4%	4%	3%	4%
grade 6 events	5687	6828	5168	5426
	2%	3%	2%	2%
grade 7 events	183789	186862	214474	209082
	83%	82%	86%	85%

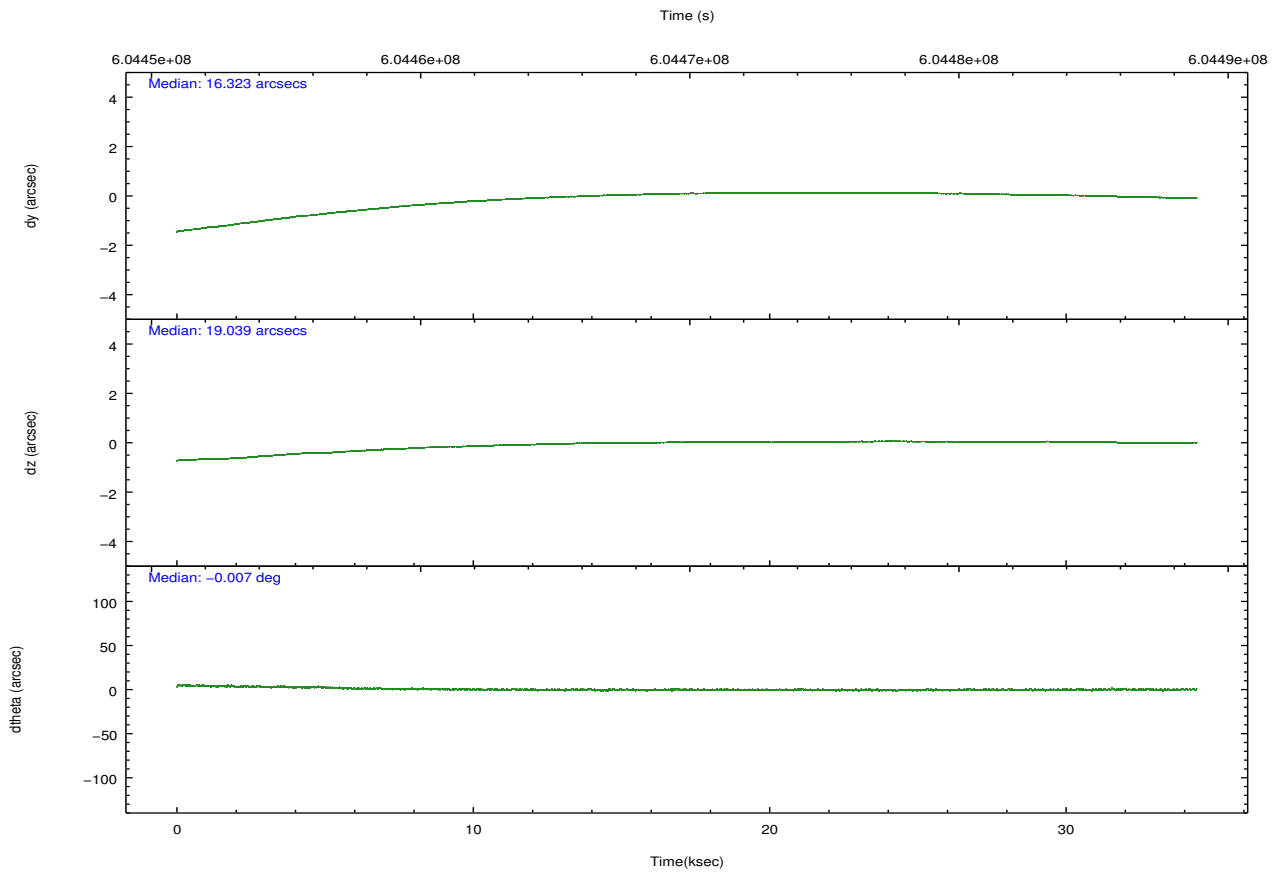
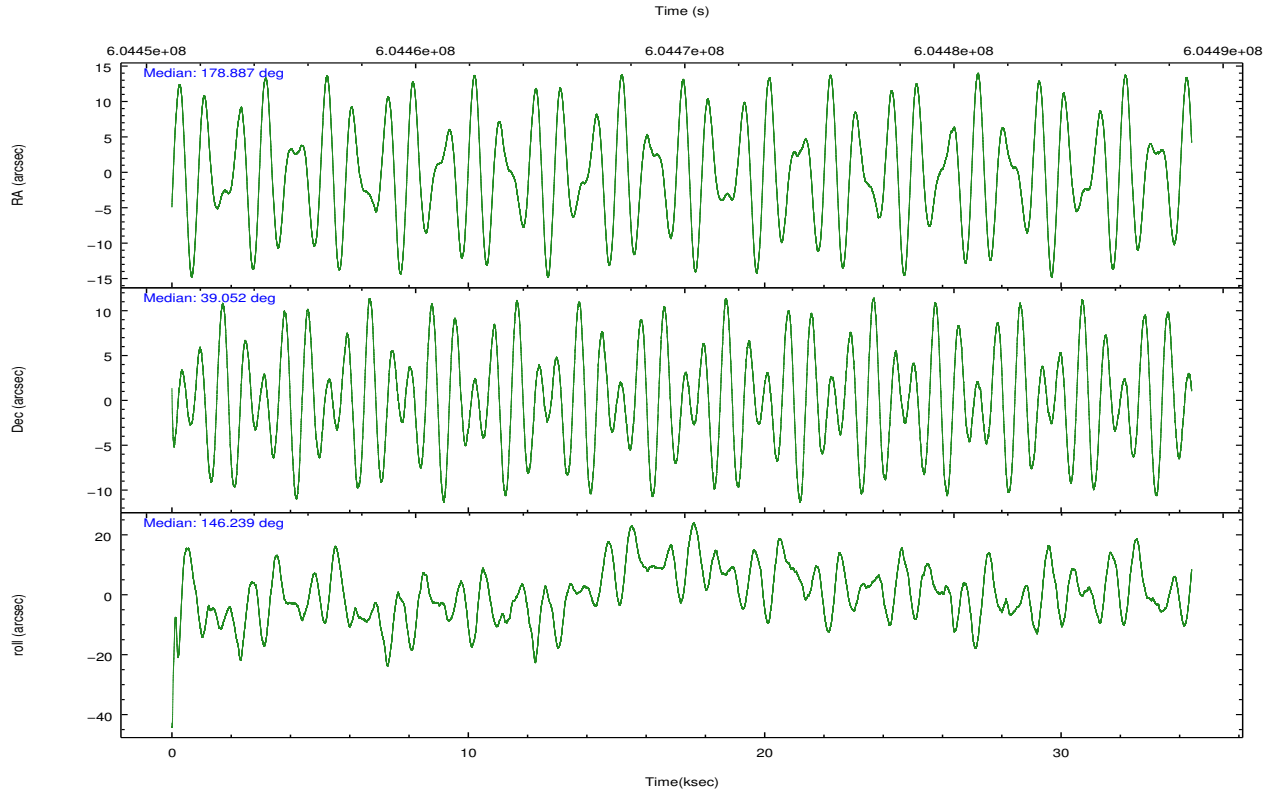
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	178.921864	178.8864110660803
[deg] Pointing Dec	39.049790	39.05149702440247
[deg] Pointing Roll	146.011418	146.242415612667
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-225.840463	-225.8433433320239
[mm] SIM translation stage offset	-7.752	-7.749109670905796
[s] Observation start time (MET)	604453091.184000	604452092.5559601
Observation start date	2017-02-25T23:37:02	2017-02-25T23:21:32
[s] Observation end time (MET)	604487091.184000	604487585.74552
Observation end date	2017-02-26T09:03:42	2017-02-26T09:13:05
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	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



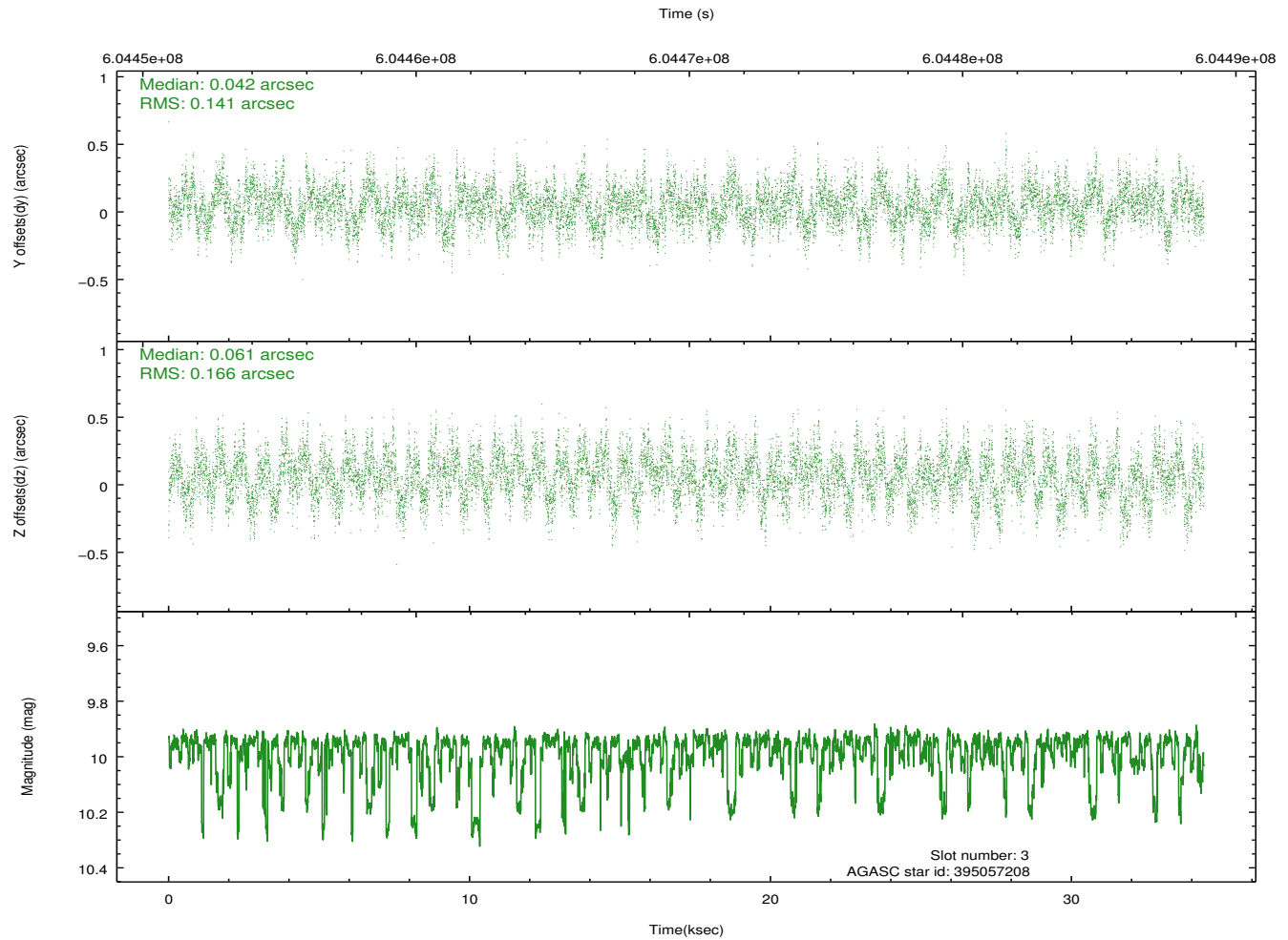
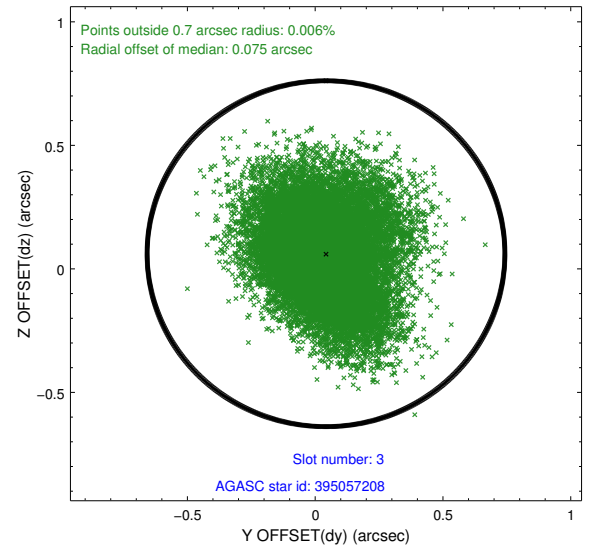
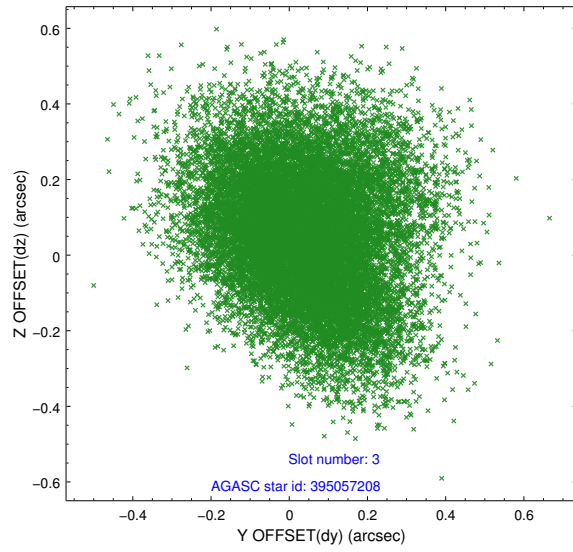


Slot Statistics

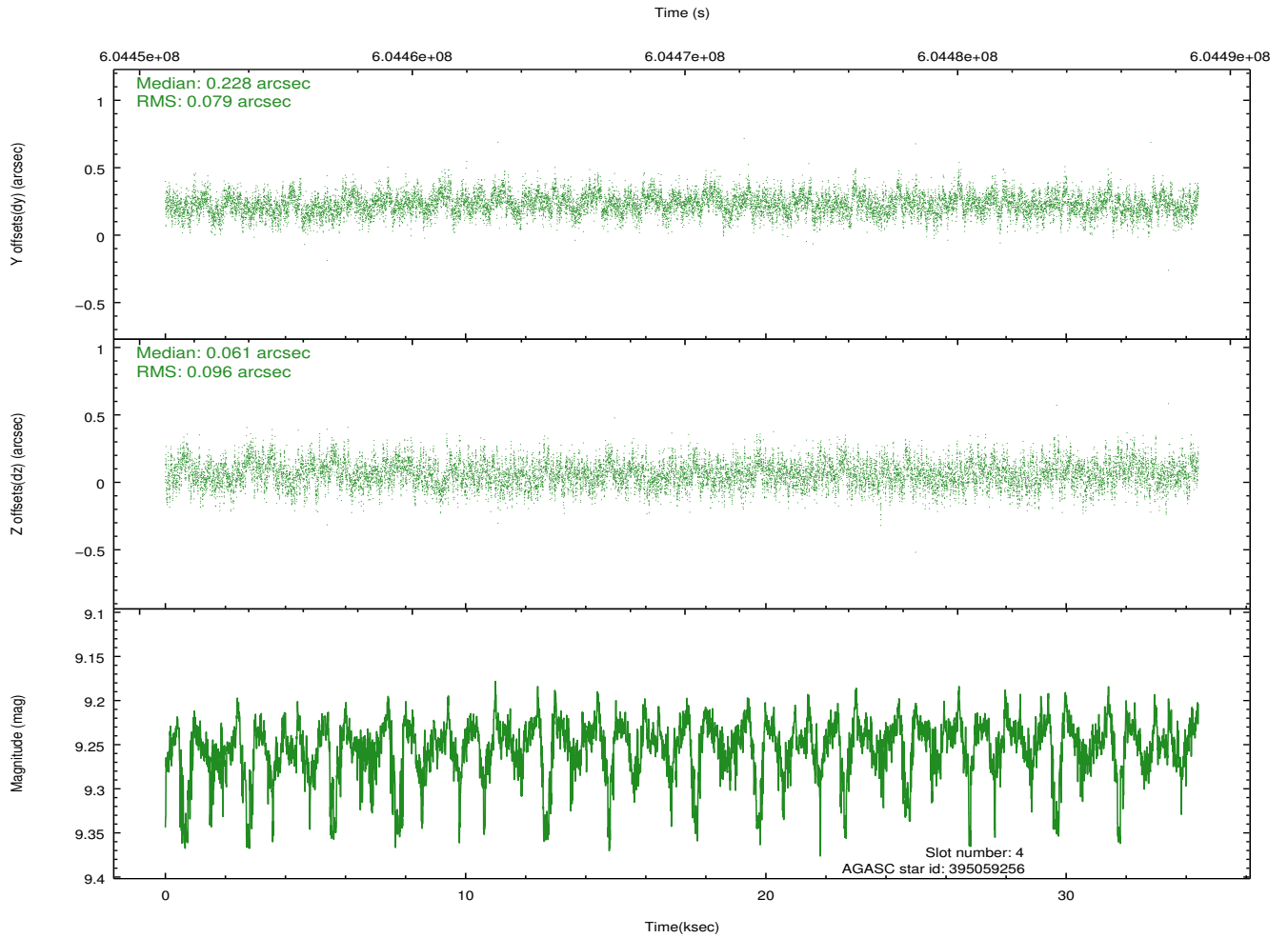
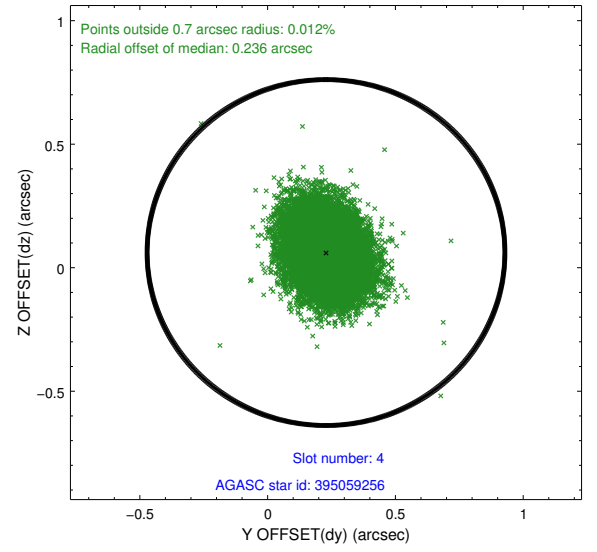
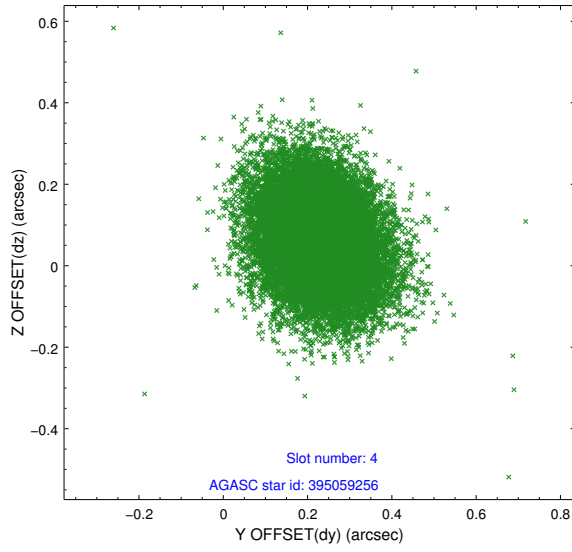
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	8392	0.130	-0.096	0.013	0.026	0.000000	0.000000	923.37	-1001.73
1	FID		ACIS-I-5	7.20	8390	-0.405	0.071	0.008	0.015	0.000000	0.000000	-1825.40	895.66
2	FID		ACIS-I-6	7.21	8390	0.183	0.094	0.011	0.021	0.000000	0.000000	388.71	1540.42
3	GUIDE	used	395057208	9.96	16629	0.042	0.061	0.233	0.379	178.810765	39.721436	1607.27	-1832.32
4	GUIDE	used	395059256	9.25	16765	0.228	0.061	0.131	0.216	179.339244	38.795877	-1480.20	101.17
5	GUIDE	used	395060120	9.41	16762	-0.184	0.096	0.155	0.263	178.875015	39.807488	1633.15	-2187.92
6	GUIDE	used	395070744	6.90	16785	-0.086	-0.226	0.131	0.215	178.844086	38.756906	-409.18	995.86
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

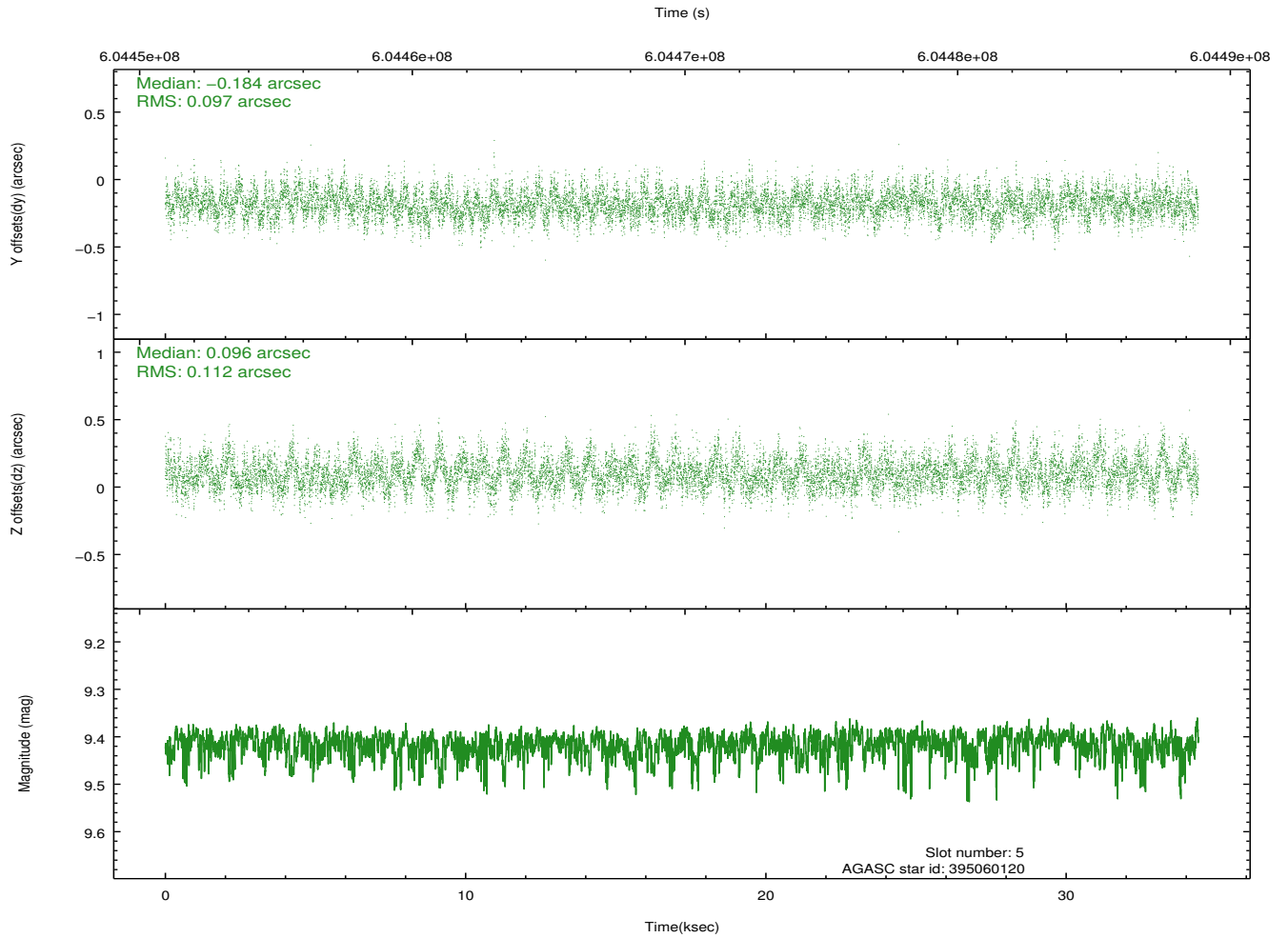
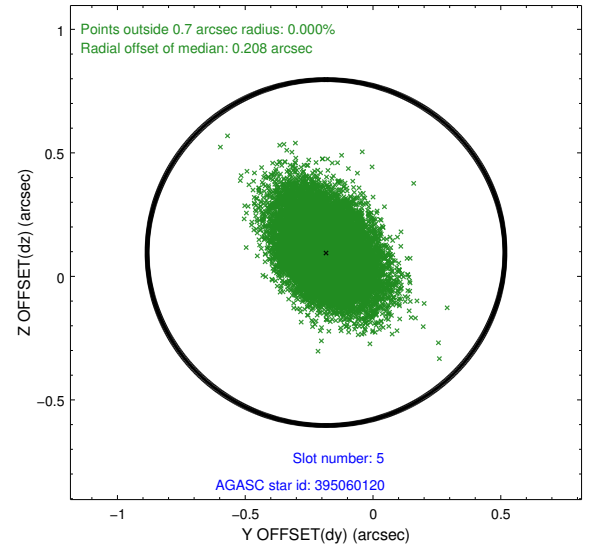
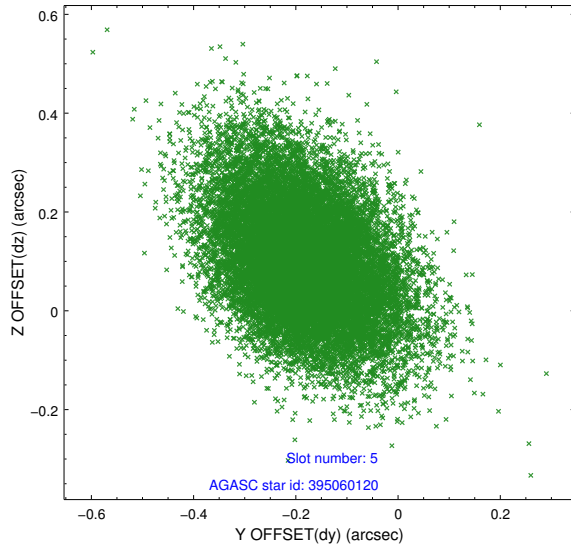
2.4.1 Slot 3



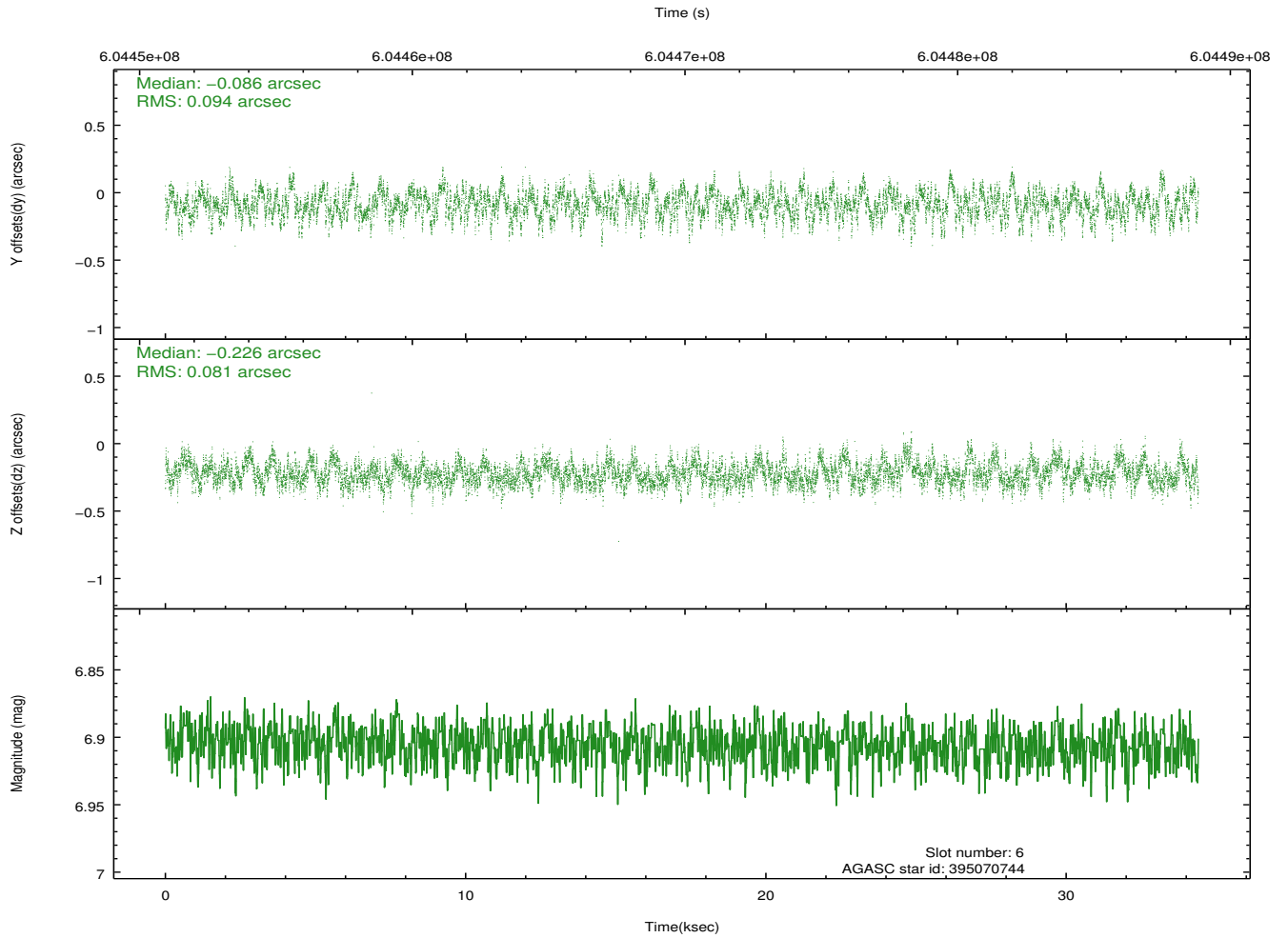
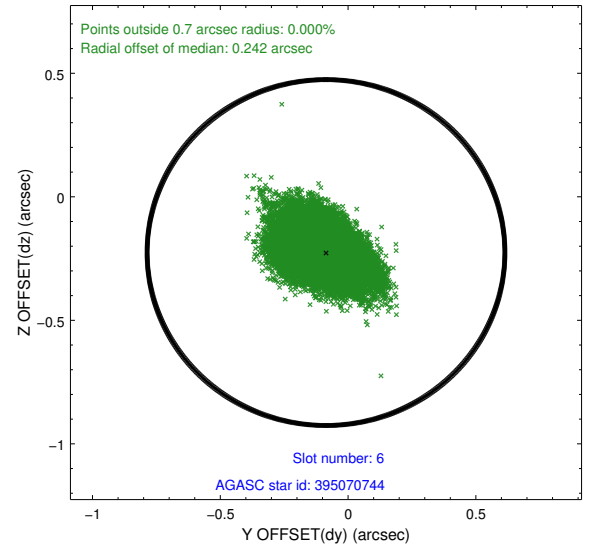
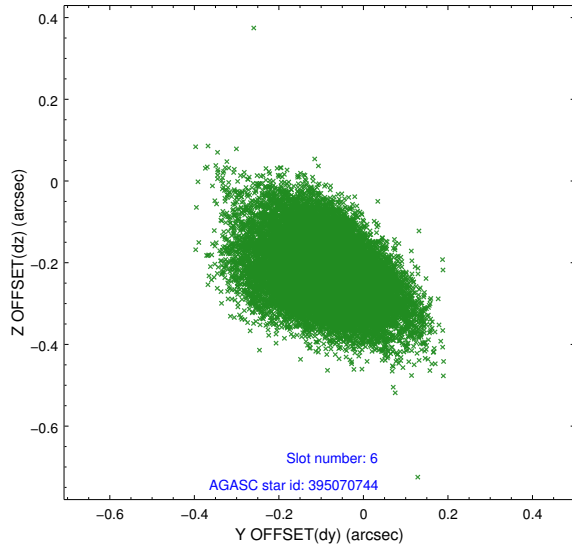
2.4.2 Slot 4



2.4.3 Slot 5

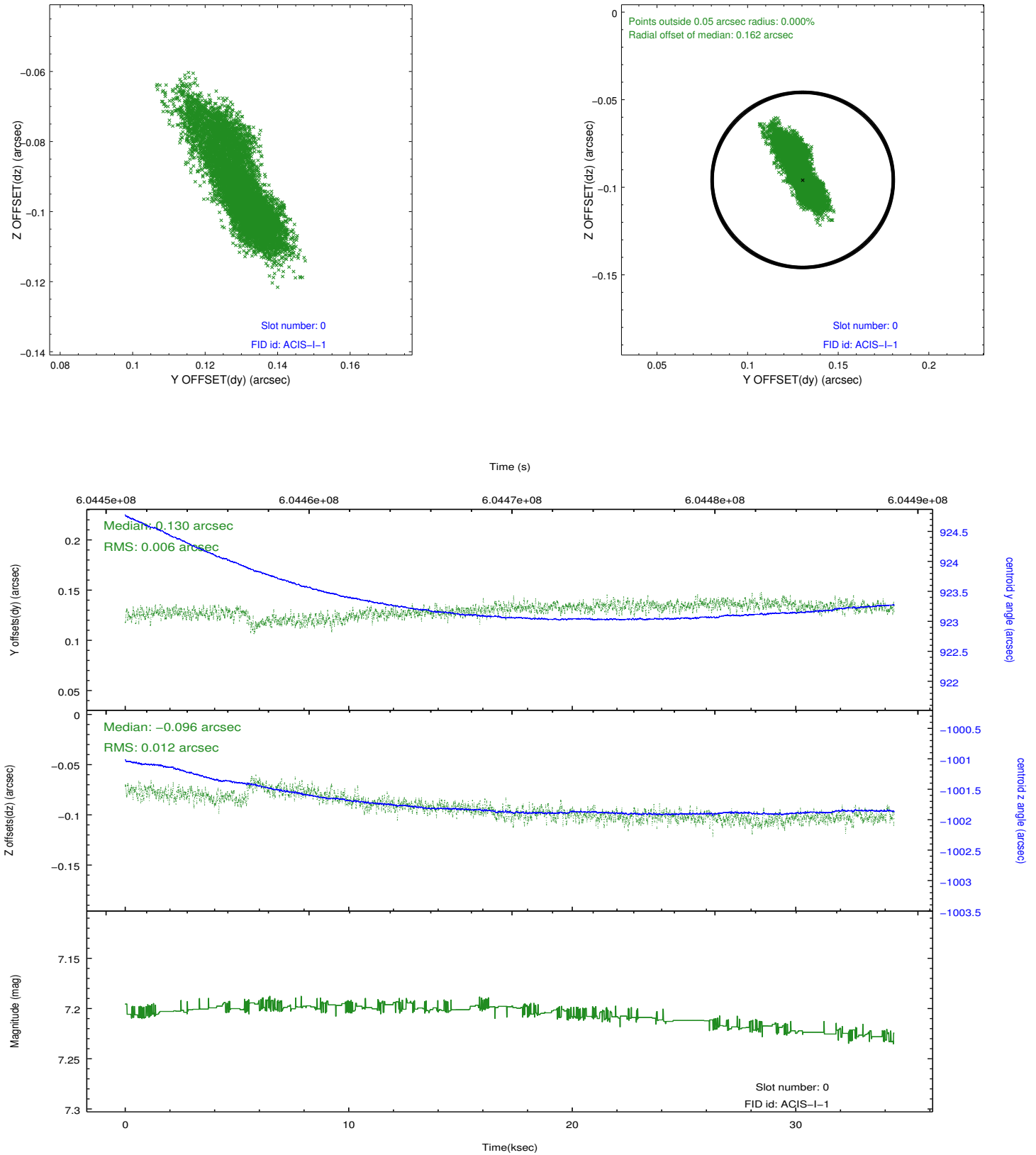


2.4.4 Slot 6

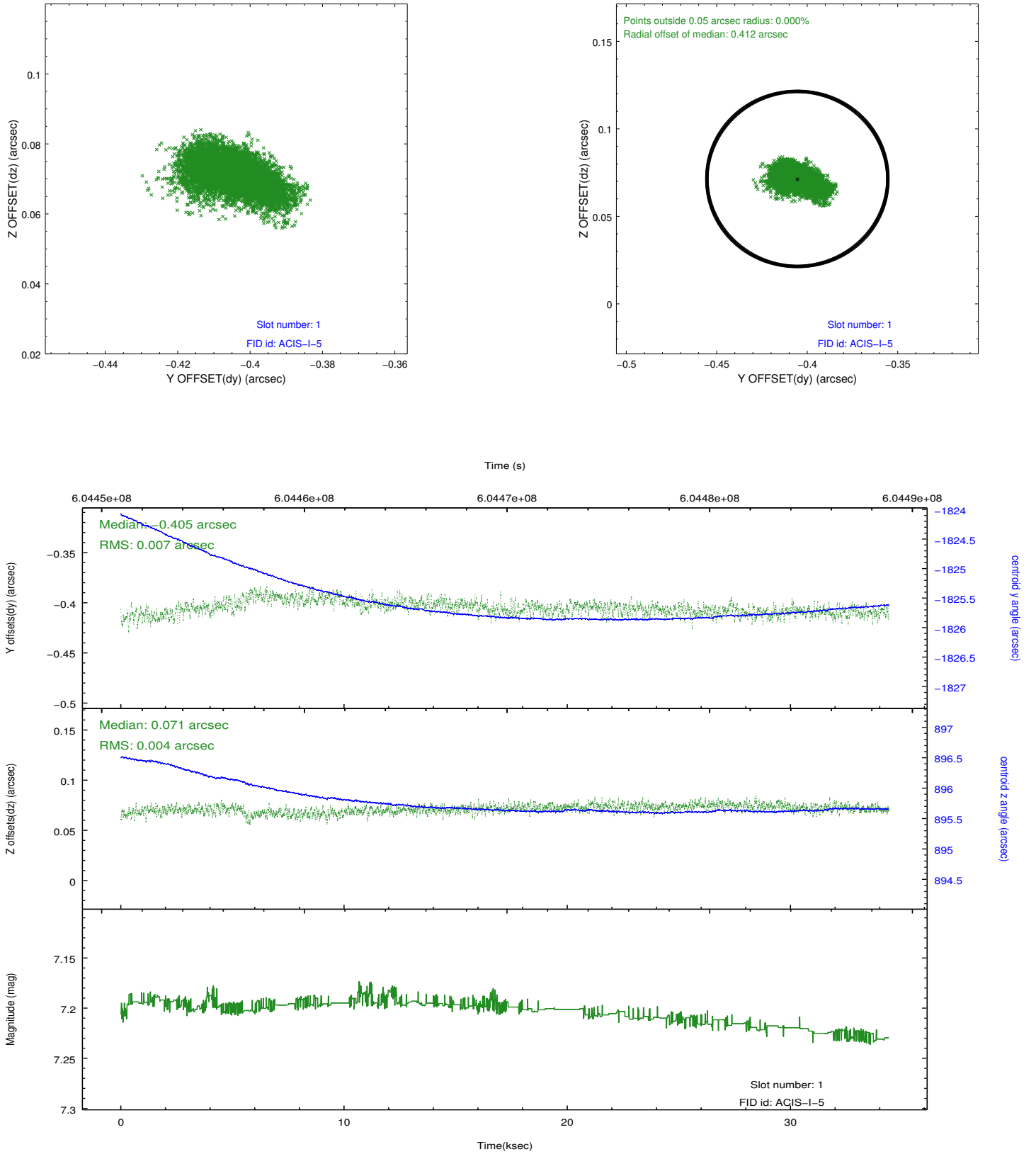


2.5 FID Slots

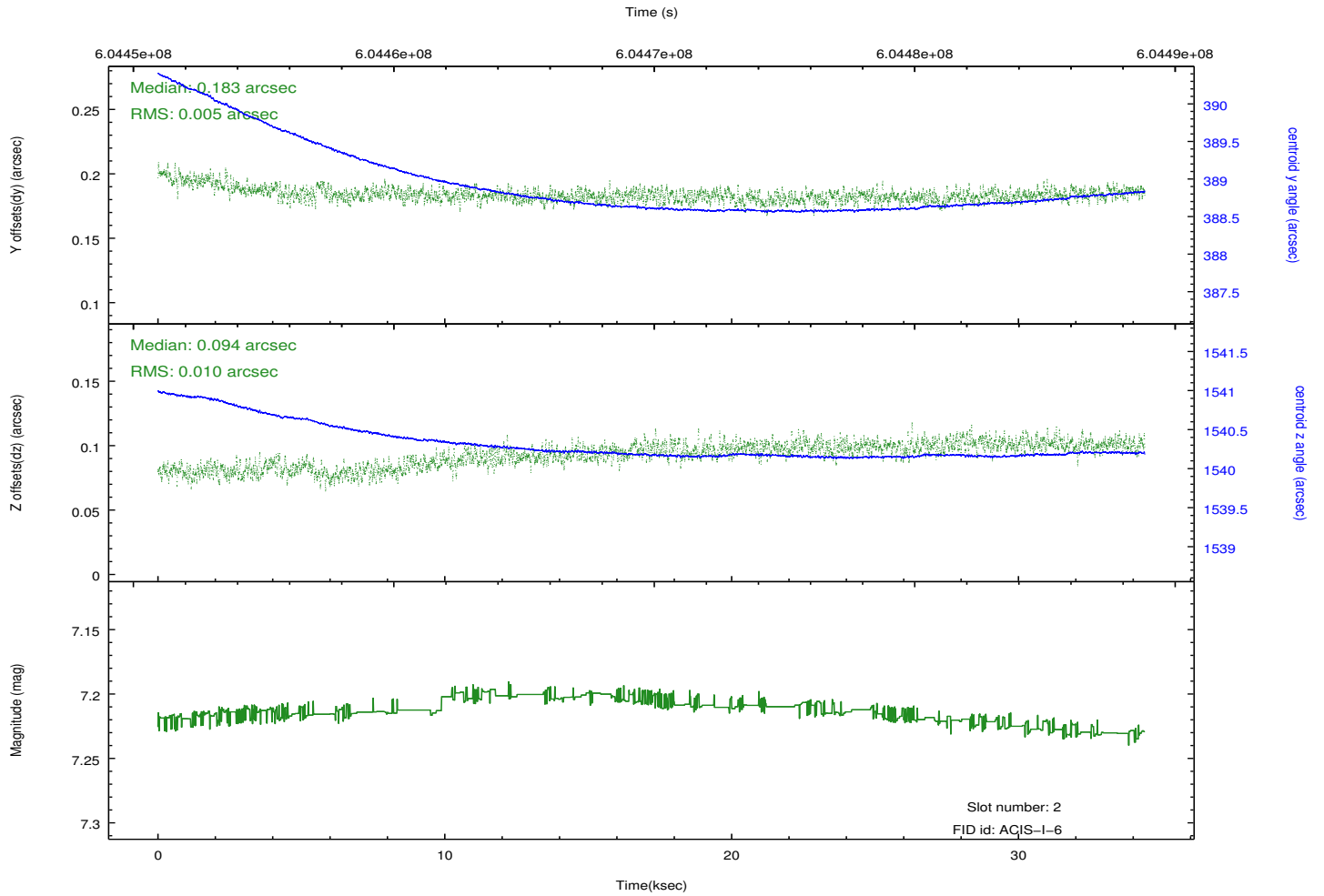
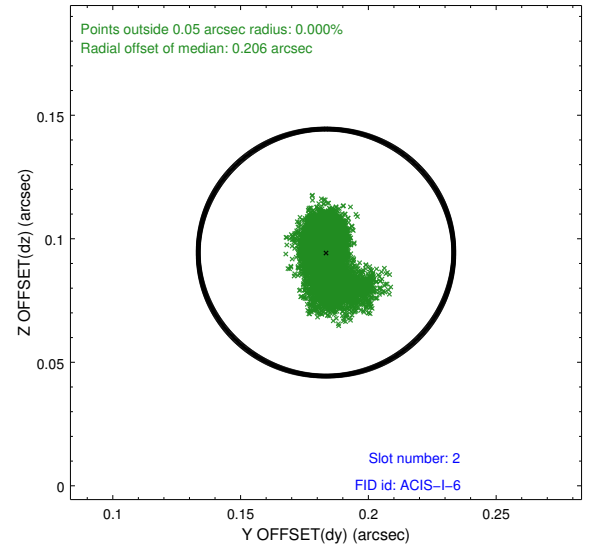
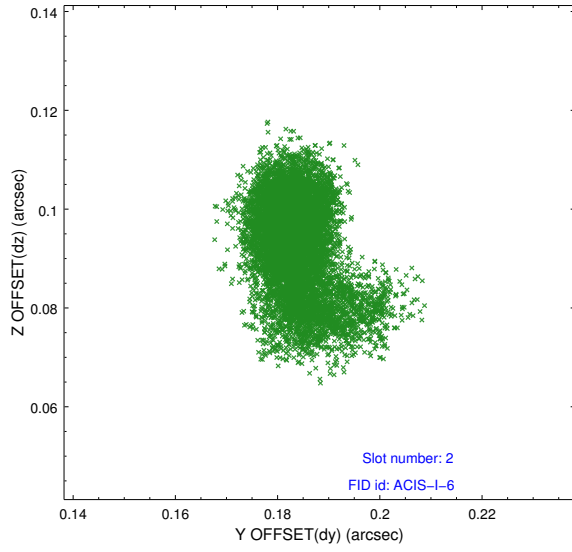
2.5.1 Slot 0



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)	2017.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.081400262237

A.2 Comments

One optional chip was dropped.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.