

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22435 - L2 Version 2
Chandra X-Ray Center

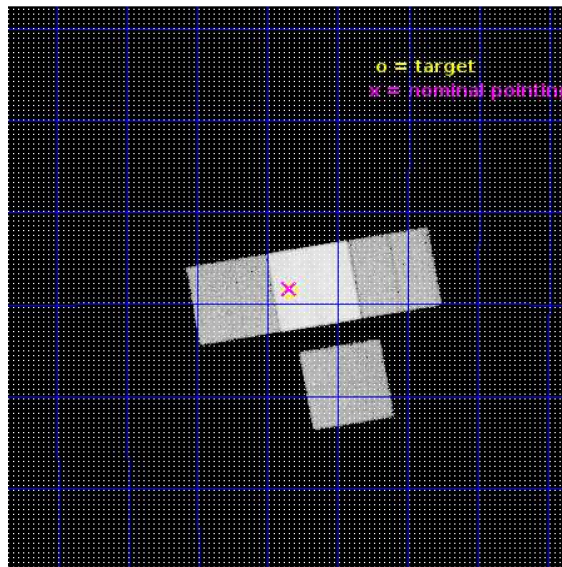
L2 Processing Date : Oct 2 2019

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1 Front

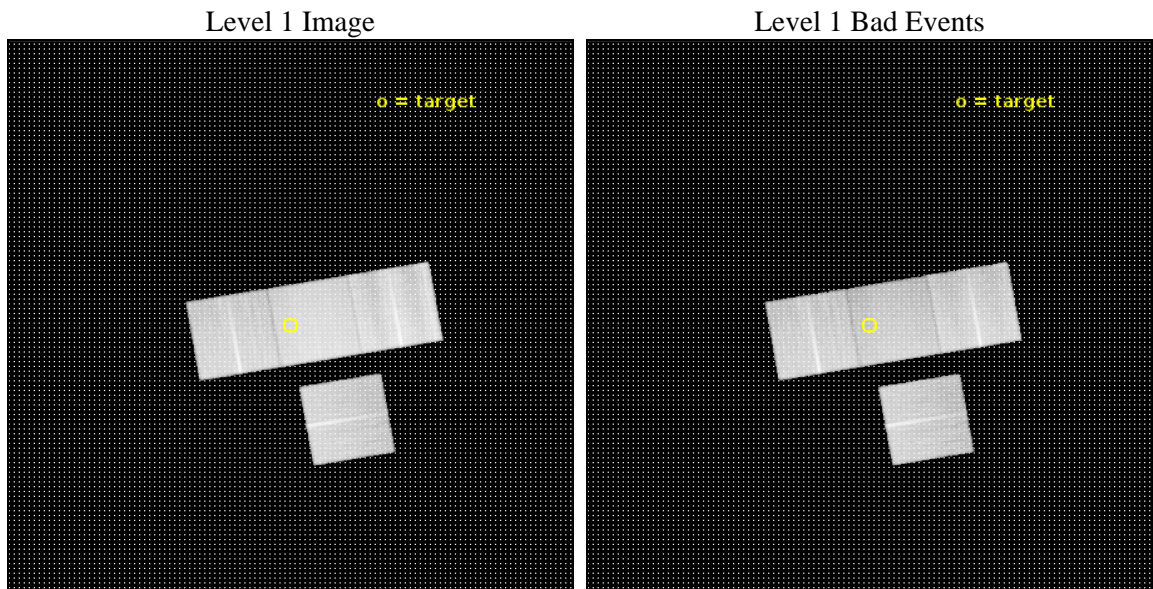
seq_num	503162	Sequence number
obs_id	22435	Observation id
title	Targeting two ~2-year old Type II supernovae with Chandra	Proposa
observer	Poonam Chandra	Principal investigator
object	SN 2017hcc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.96075	Observer's specified target RA [deg]
dec_targ	-11.474661	Observer's specified target Dec [deg]
ra_nom	0.96182879084677	Nominal RA [deg]
dec_nom	-11.471826285152	Nominal Dec [deg]
roll_nom	350.15683303755	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41068.800315976	Sum of GTIs [s]
livetime	40532.206205437	Livetime [s]
ontime3	41068.800315976	Sum of GTIs [s]
ontime6	41065.659245849	Sum of GTIs [s]
ontime7	41068.800315976	Sum of GTIs [s]
ontime8	41059.376924157	Sum of GTIs [s]
l2events	268073	Number of level 2 events



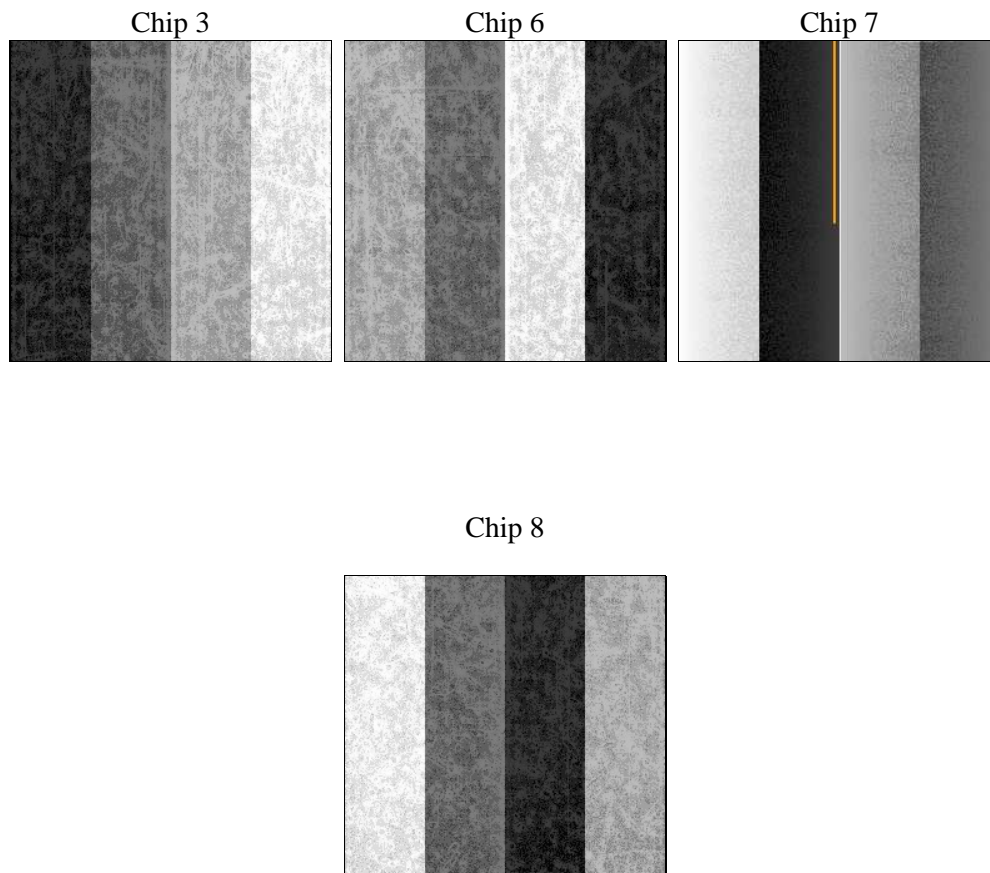
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	41068.800315976	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime3	41068.800315976	Sum of GTIs [s]
date	2019-10-02T18:58:51	Date and time of file creation	ontime6	41065.659245849	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	41068.800315976	Sum of GTIs [s]
			ontime8	41059.376924157	Sum of GTIs [s]
			l1events	1462854	Number of level 1 events

2.1.4 Events

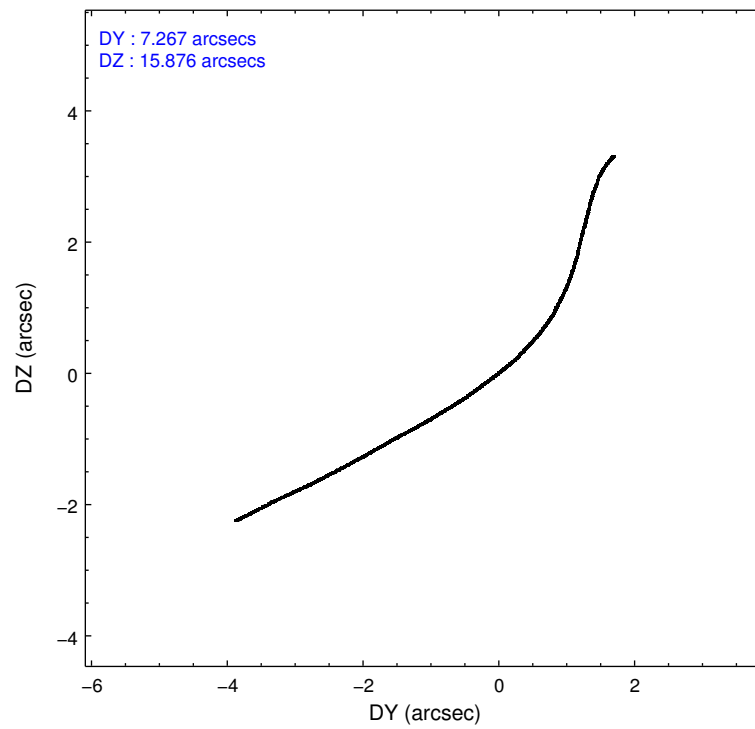
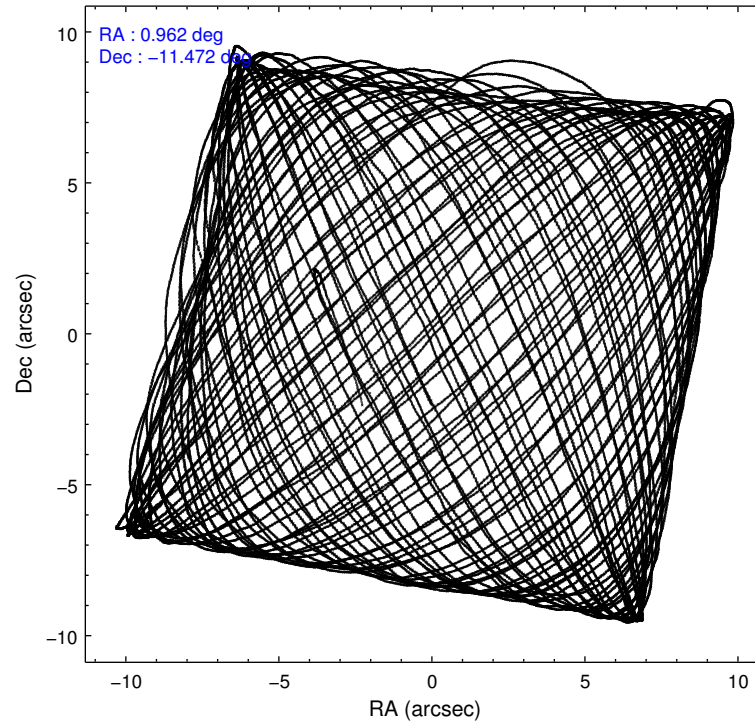
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	301737	333229	410473	417415
rejected events	269473	296674	234587	305462
rejected %	89%	89%	57%	73%

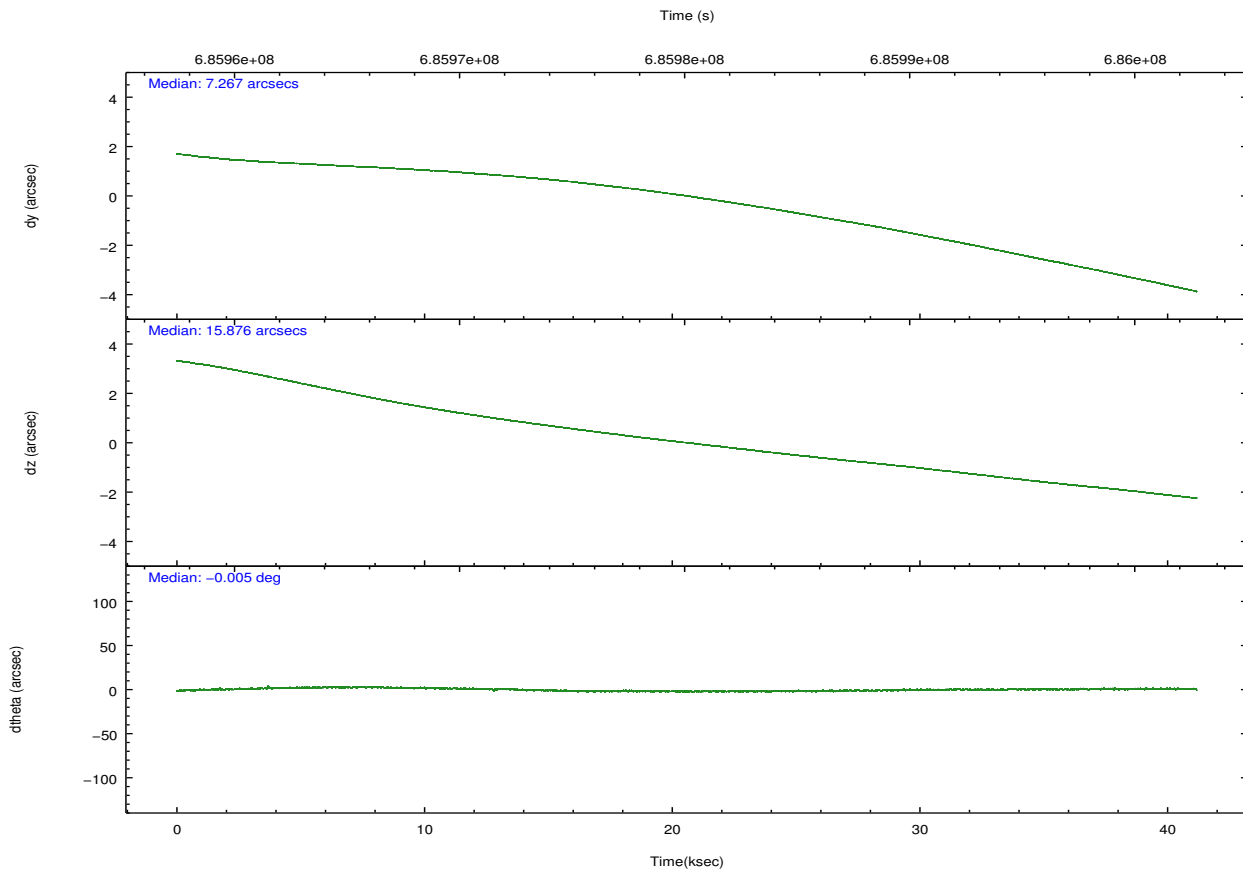
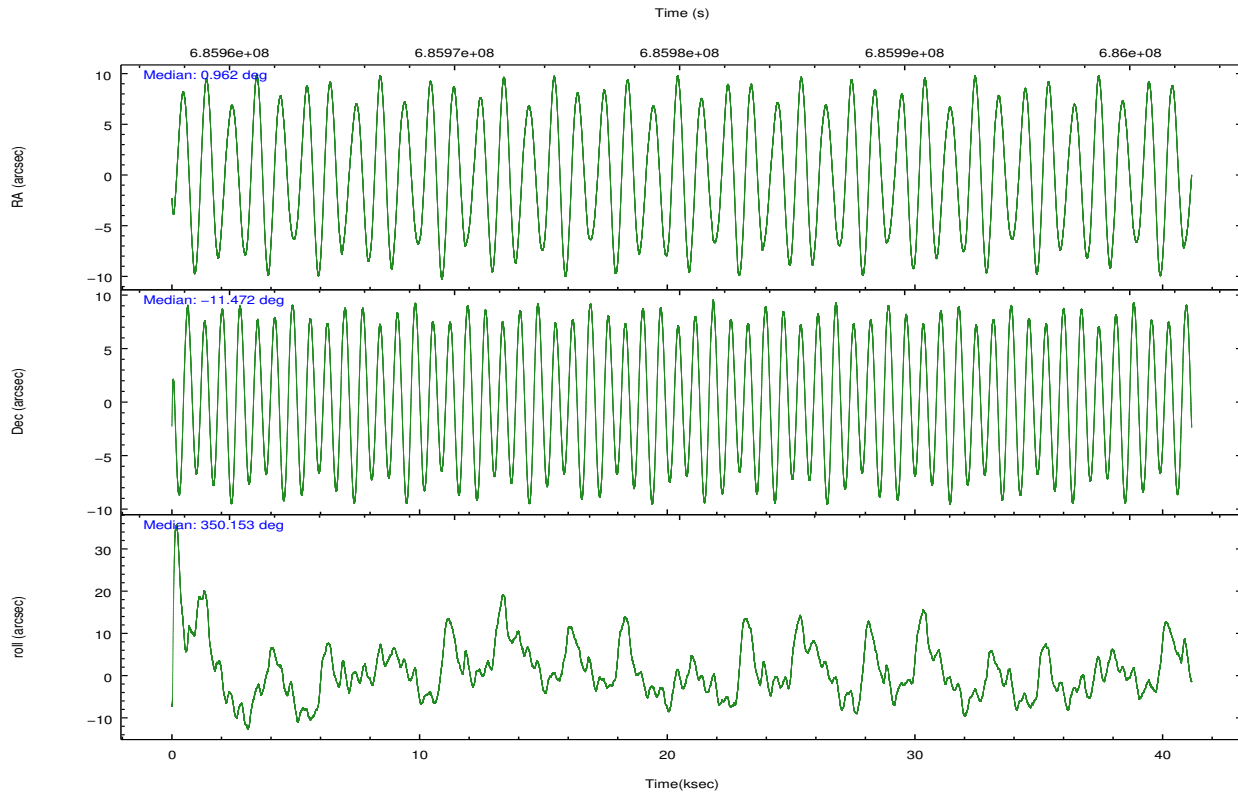
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	11176	11464	14342	30505
	3%	3%	3%	7%
grade 1 events	165	142	631	337
	0%	0%	0%	0%
grade 2 events	7018	9308	37857	27765
	2%	2%	9%	6%
grade 3 events	3418	3209	13213	11612
	1%	0%	3%	2%
grade 4 events	3402	3147	13146	10702
	1%	0%	3%	2%
grade 5 events	14415	14142	39121	22089
	4%	4%	9%	5%
grade 6 events	7251	9433	97348	31370
	2%	2%	23%	7%
grade 7 events	254892	282384	194815	283035
	84%	84%	47%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	0.935673	0.9618287908467664	CCD I2 on	O1	N
[deg] Pointing Dec	-11.481619	-11.47182628515177	CCD I3 on	O2	Y
[deg] Pointing Roll	349.995013	350.1568330375484	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	685959679.184000	685958307.2944	CCD S5 on	N	N
Observation start date	2019-09-27T08:20:10	2019-09-27T07:58:27	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	686000679.184000	686001549.4845001	On-chip summing requested	N	N
Observation end date	2019-09-27T19:43:30	2019-09-27T19:59:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





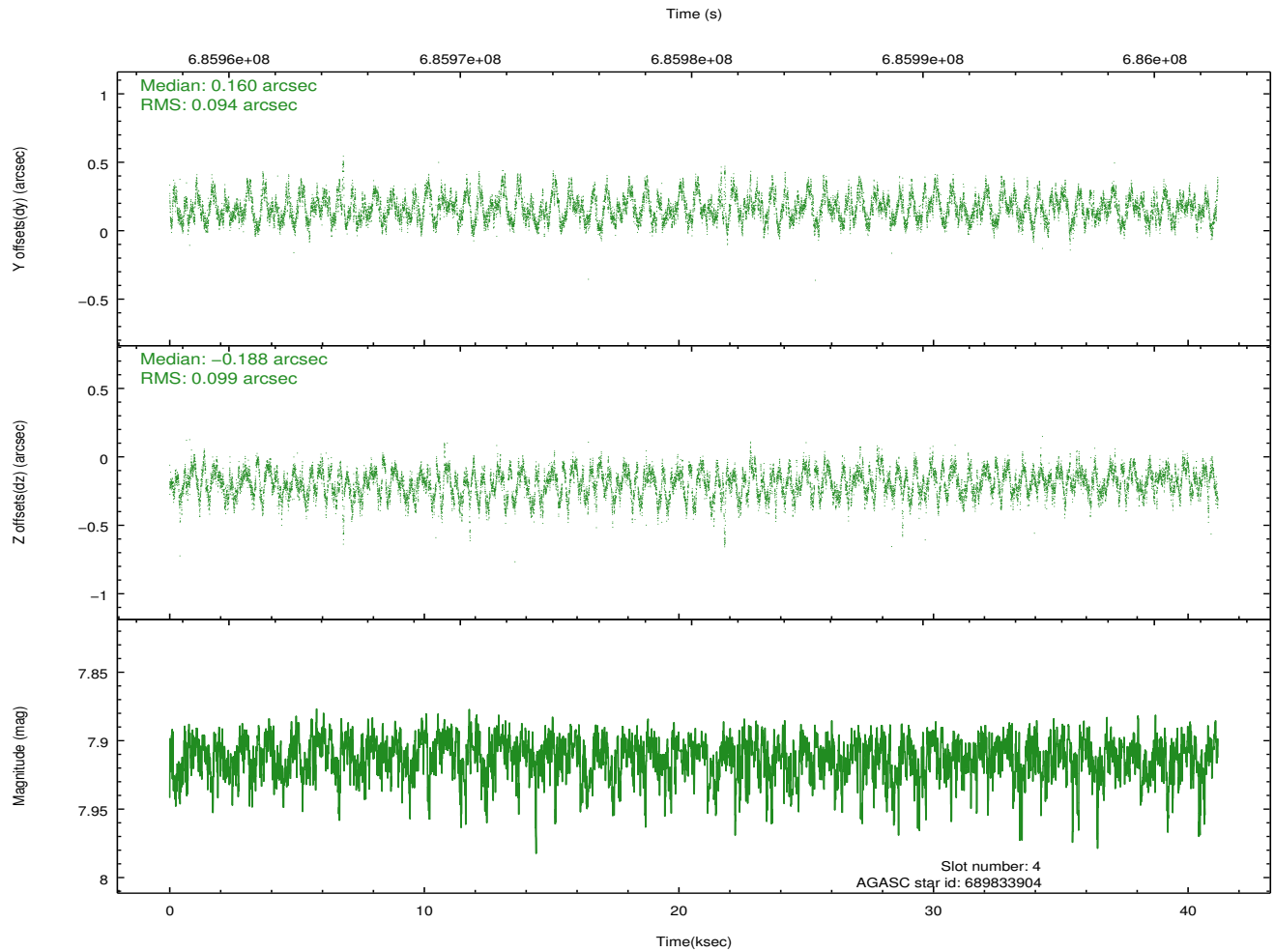
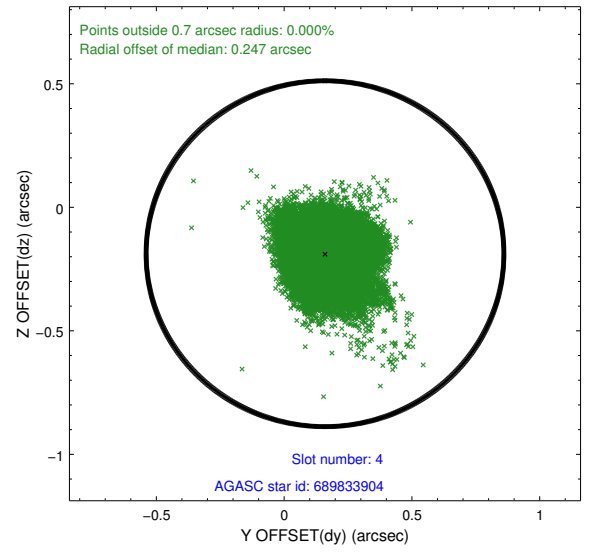
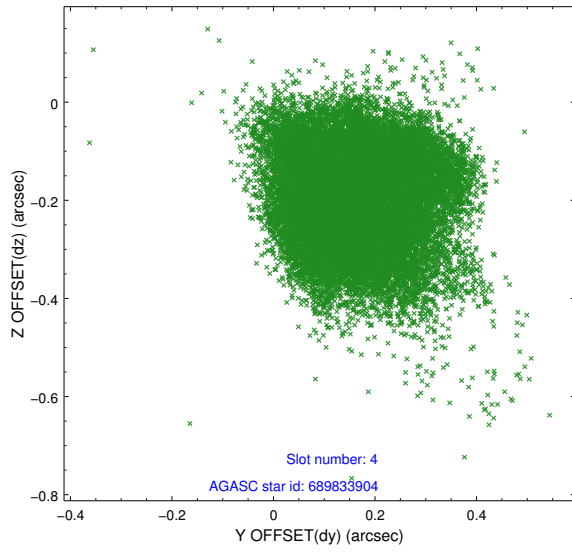
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	10043	1.000	-0.242	-0.106	0.041	0.053	0.000000	0.000000	-759.80	-1737
1	FID		ACIS-S-4	7.18	10042	1.000	0.564	0.147	0.024	0.043	0.000000	0.000000	2154.25	171
2	FID		ACIS-S-5	7.14	10042	1.000	-0.344	-0.033	0.045	0.061	0.000000	0.000000	-1812.76	164
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	689833904	7.91	20074	1.000	0.160	-0.188	0.146	0.224	0.835329	-11.945364	-56.76	-1706
5	GUIDE	used	689834384	8.76	20067	1.000	0.005	0.350	0.131	0.203	0.302014	-11.964030	-1894.69	-2100
6	GUIDE	used	689838600	9.49	19985	1.000	-0.042	-0.089	0.244	0.387	0.816129	-10.995338	-719.73	1649
7	GUIDE	used	689839456	10.09	19764	0.995	-0.123	-0.051	0.319	0.550	0.447699	-11.093747	-1939.03	1074

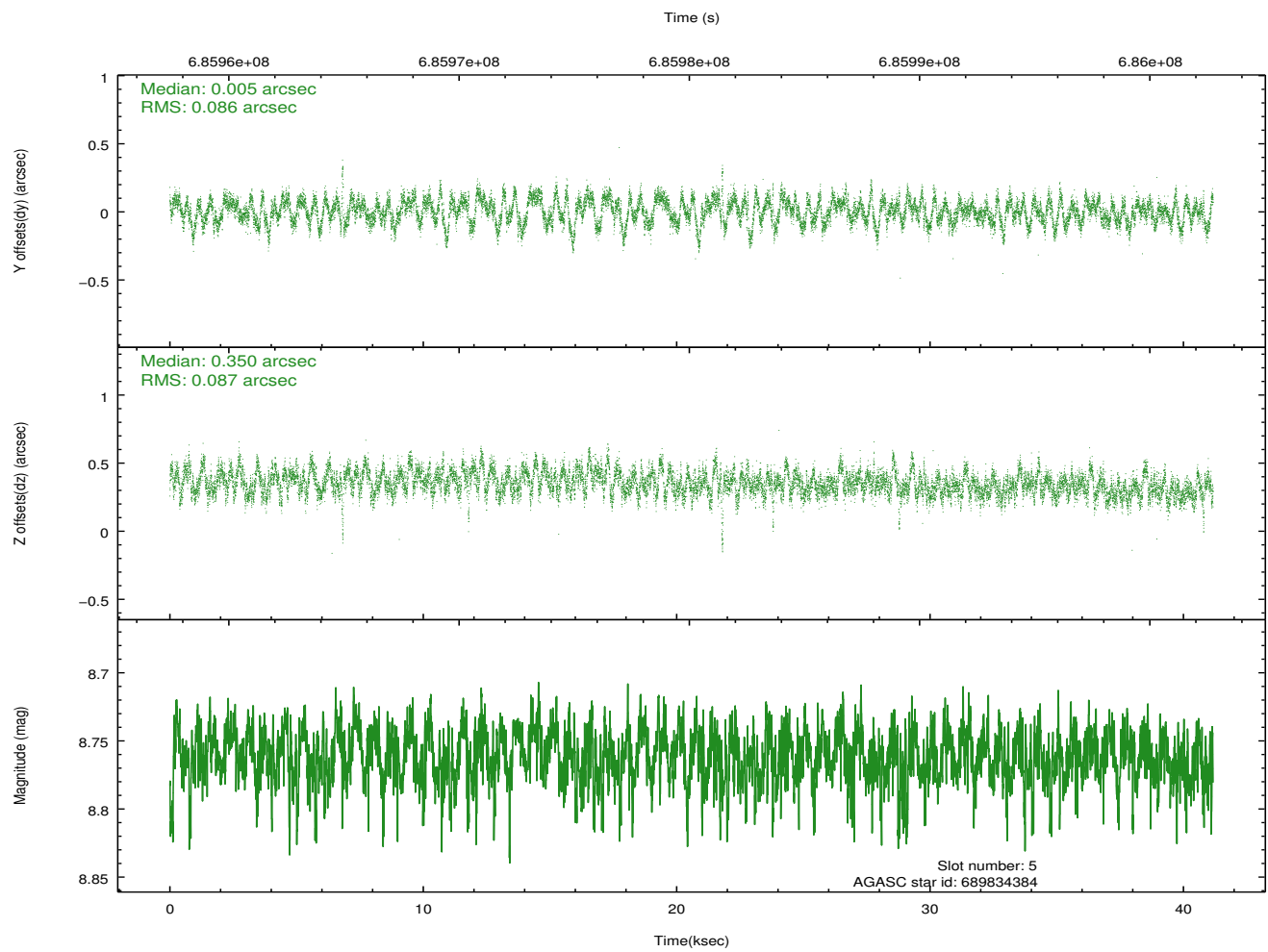
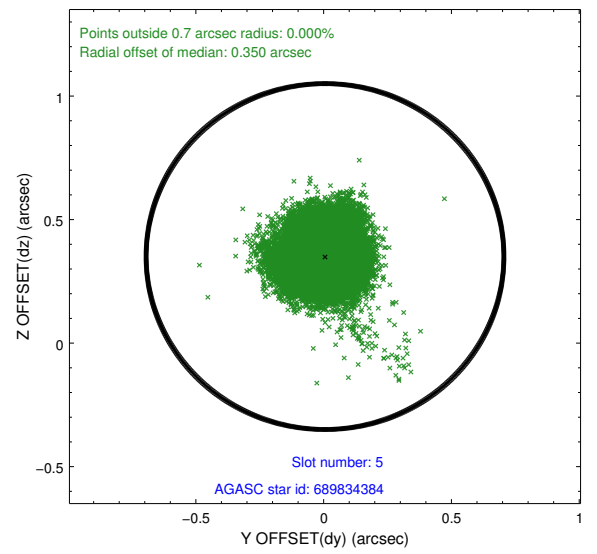
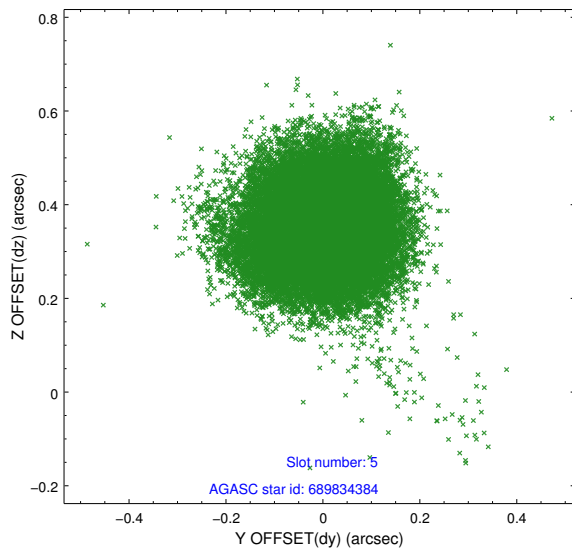
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2.4 Star Slots

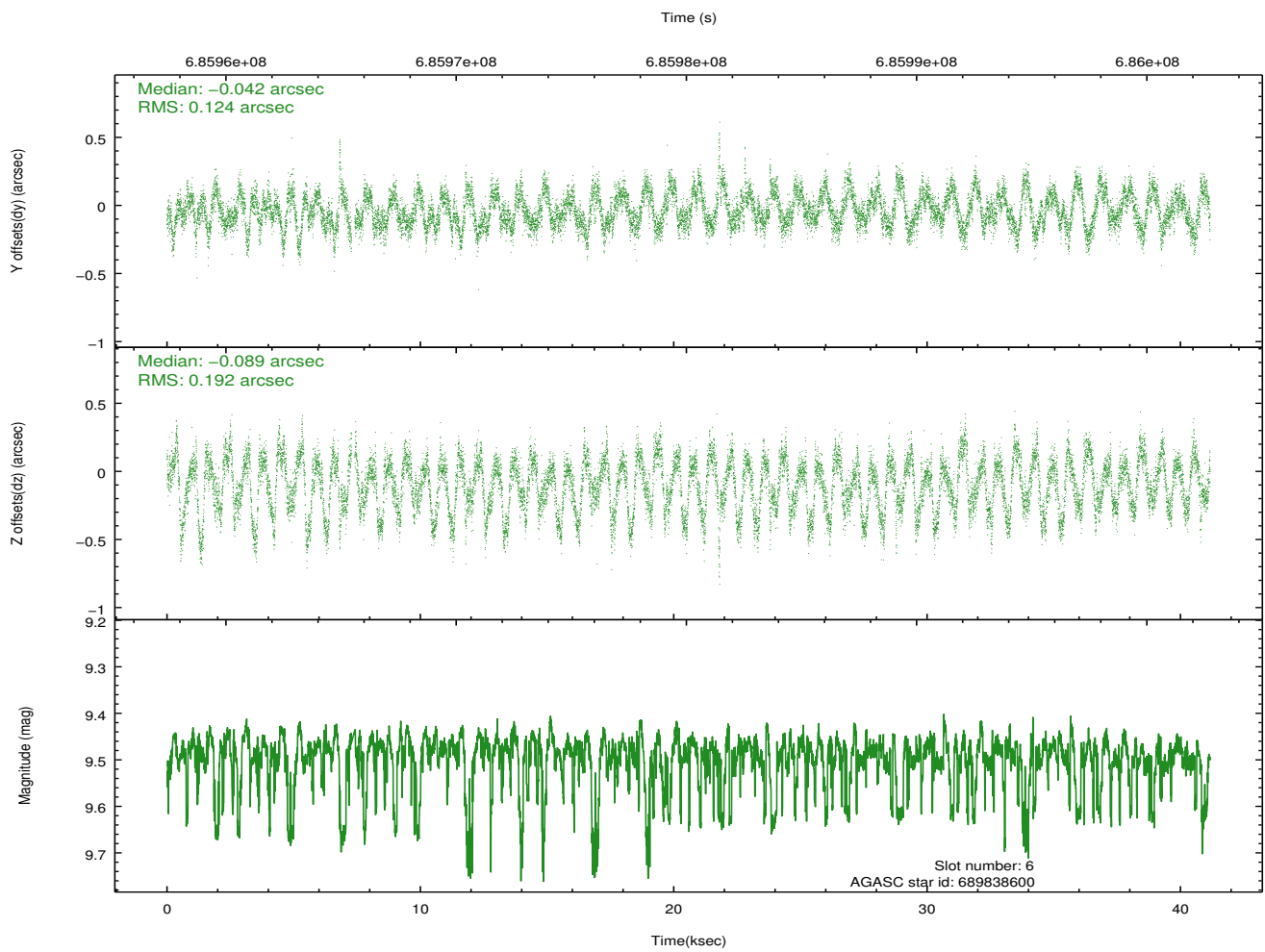
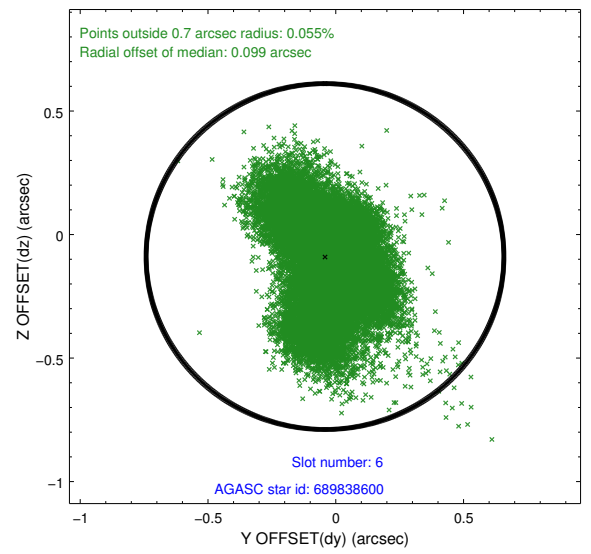
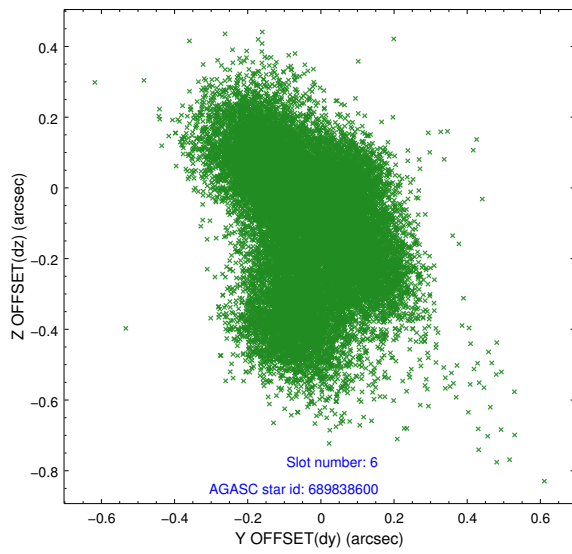
2.4.1 Slot 4



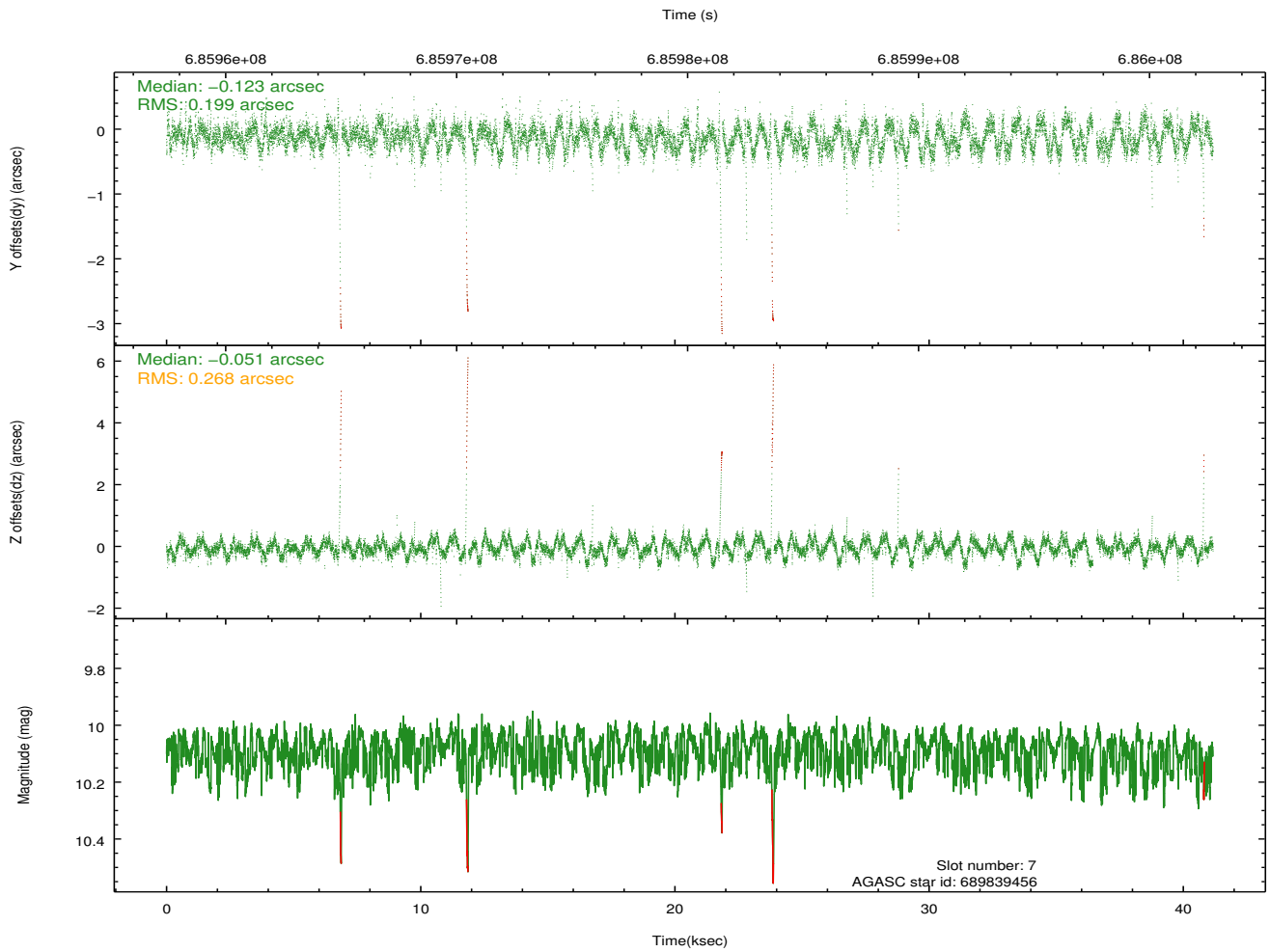
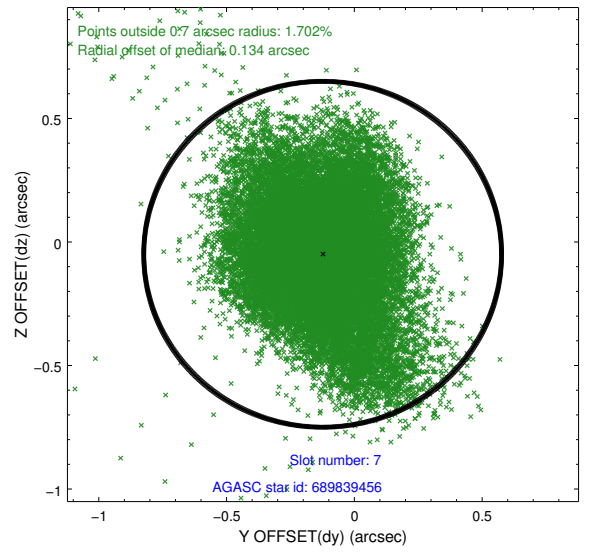
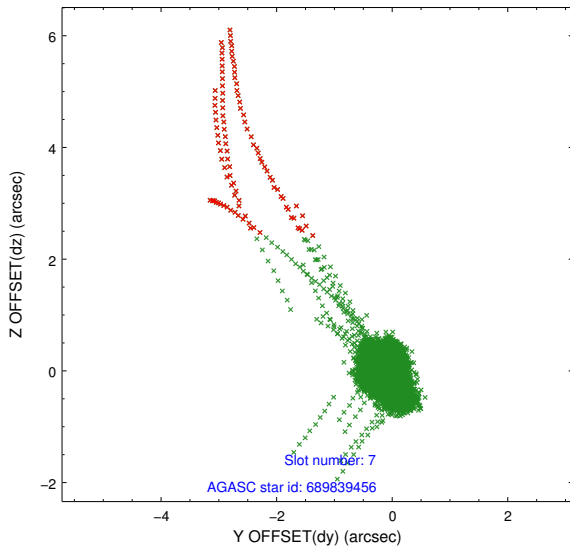
2.4.2 Slot 5



2.4.3 Slot 6

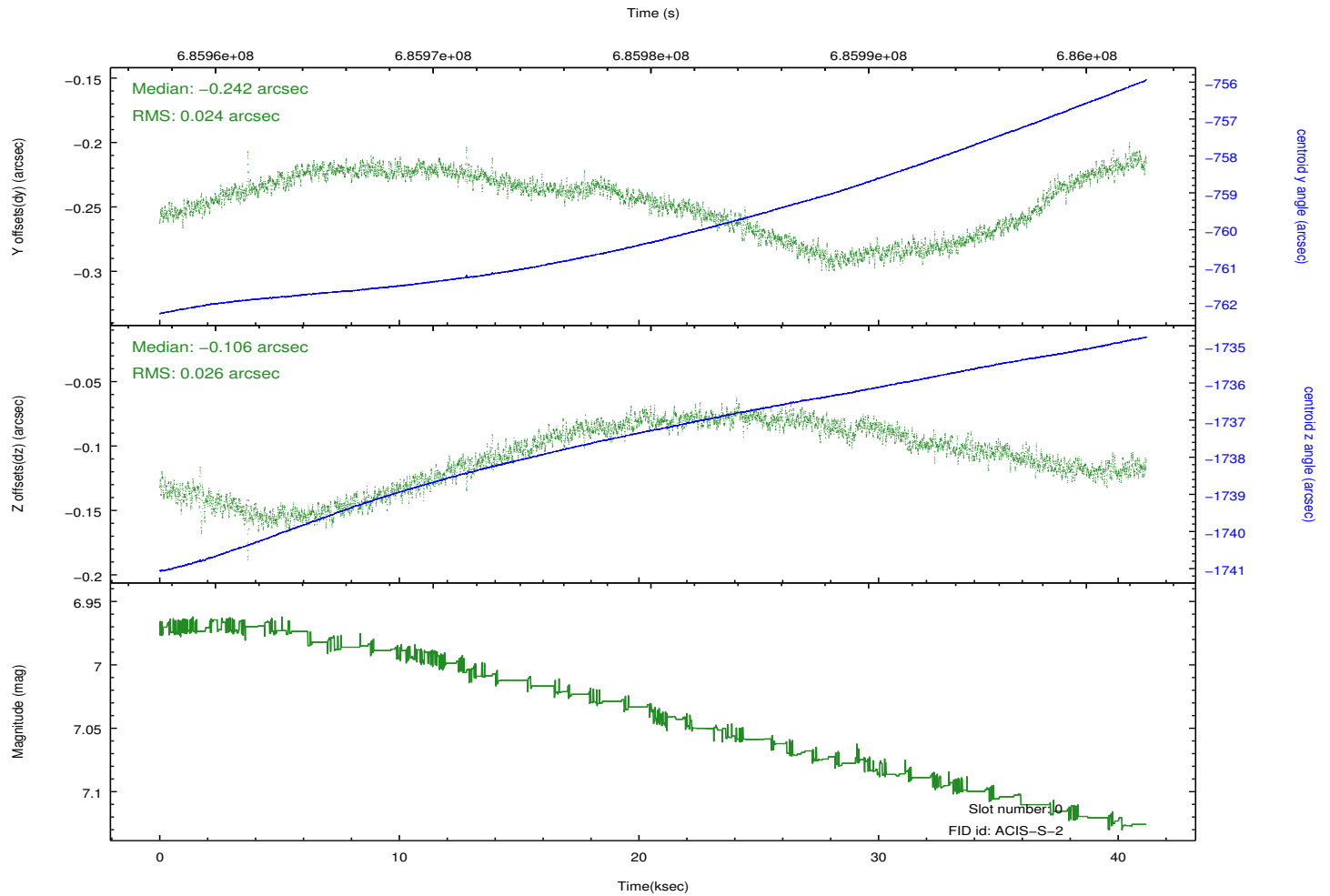
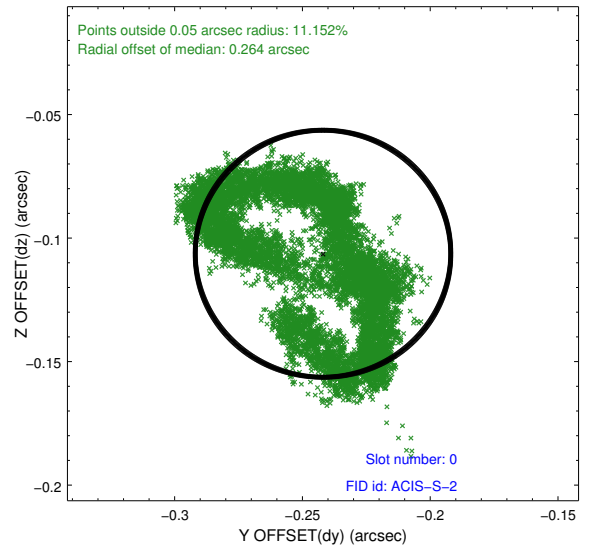
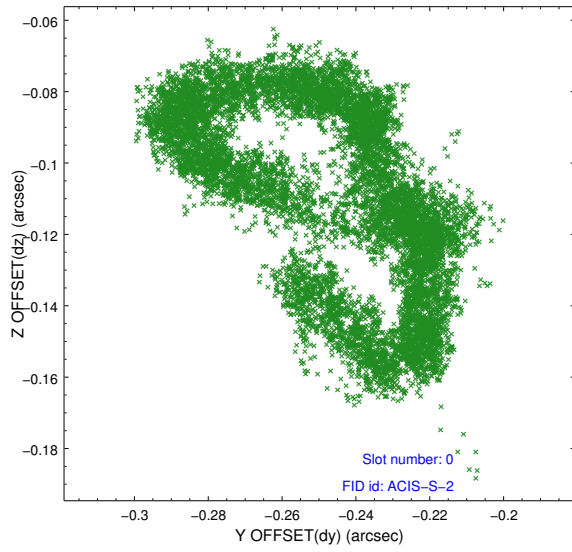


2.4.4 Slot 7

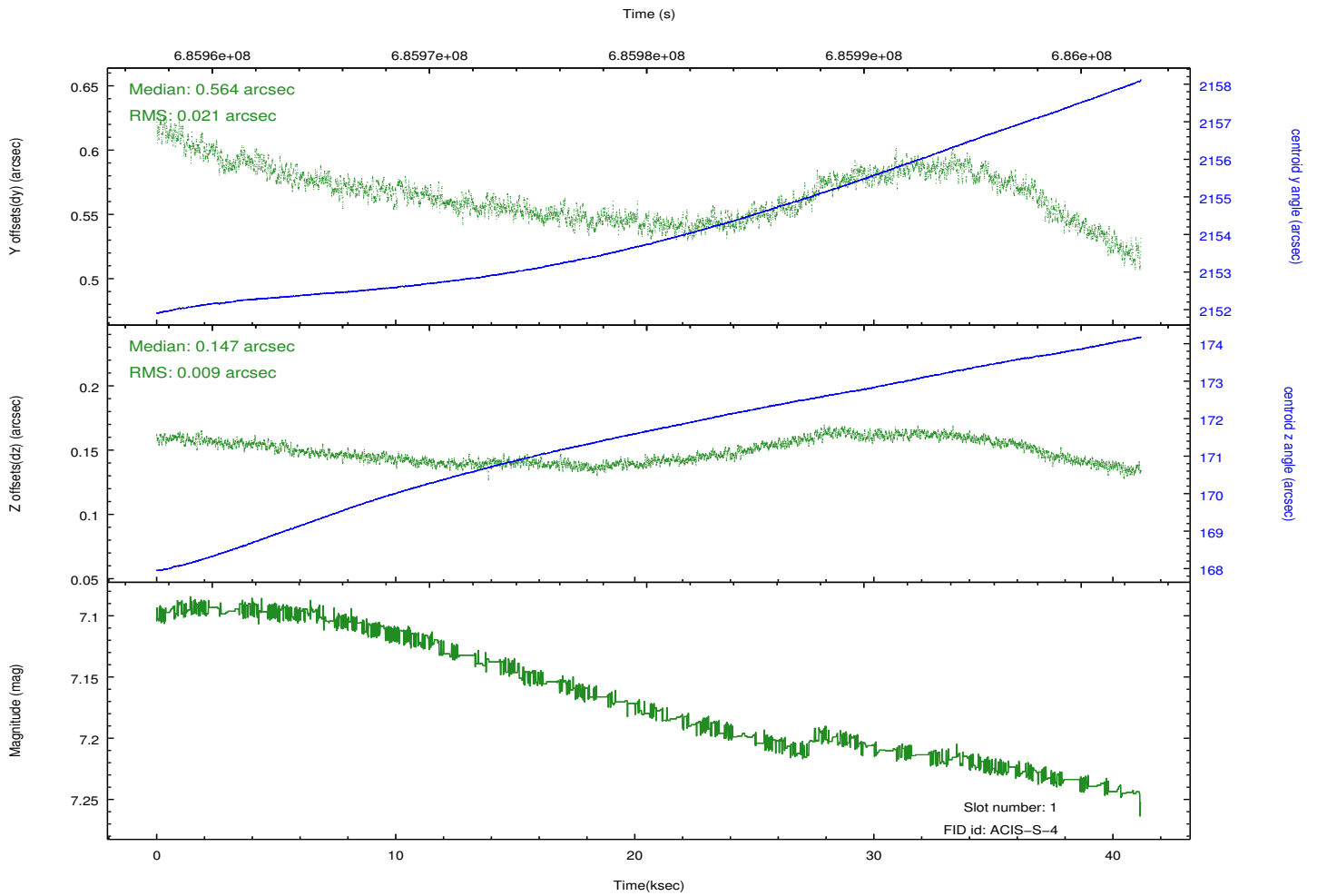
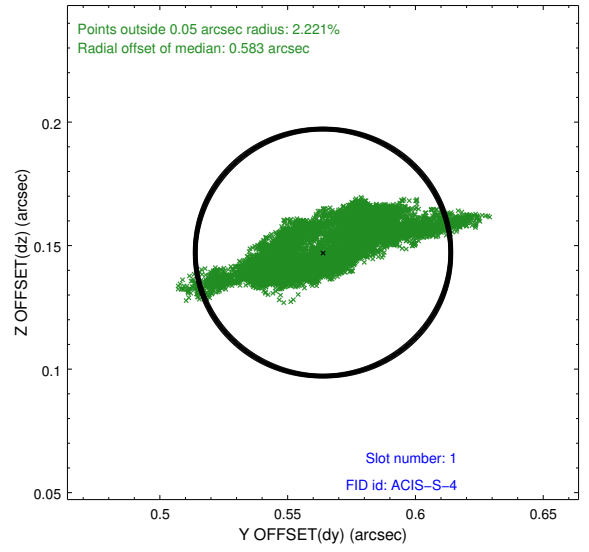
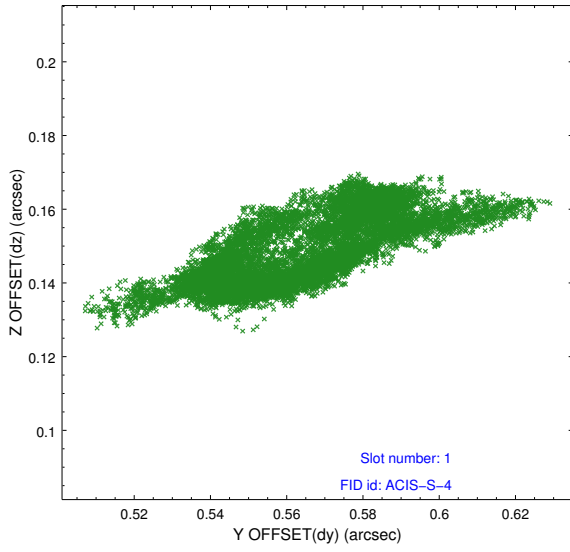


2.5 FID Slots

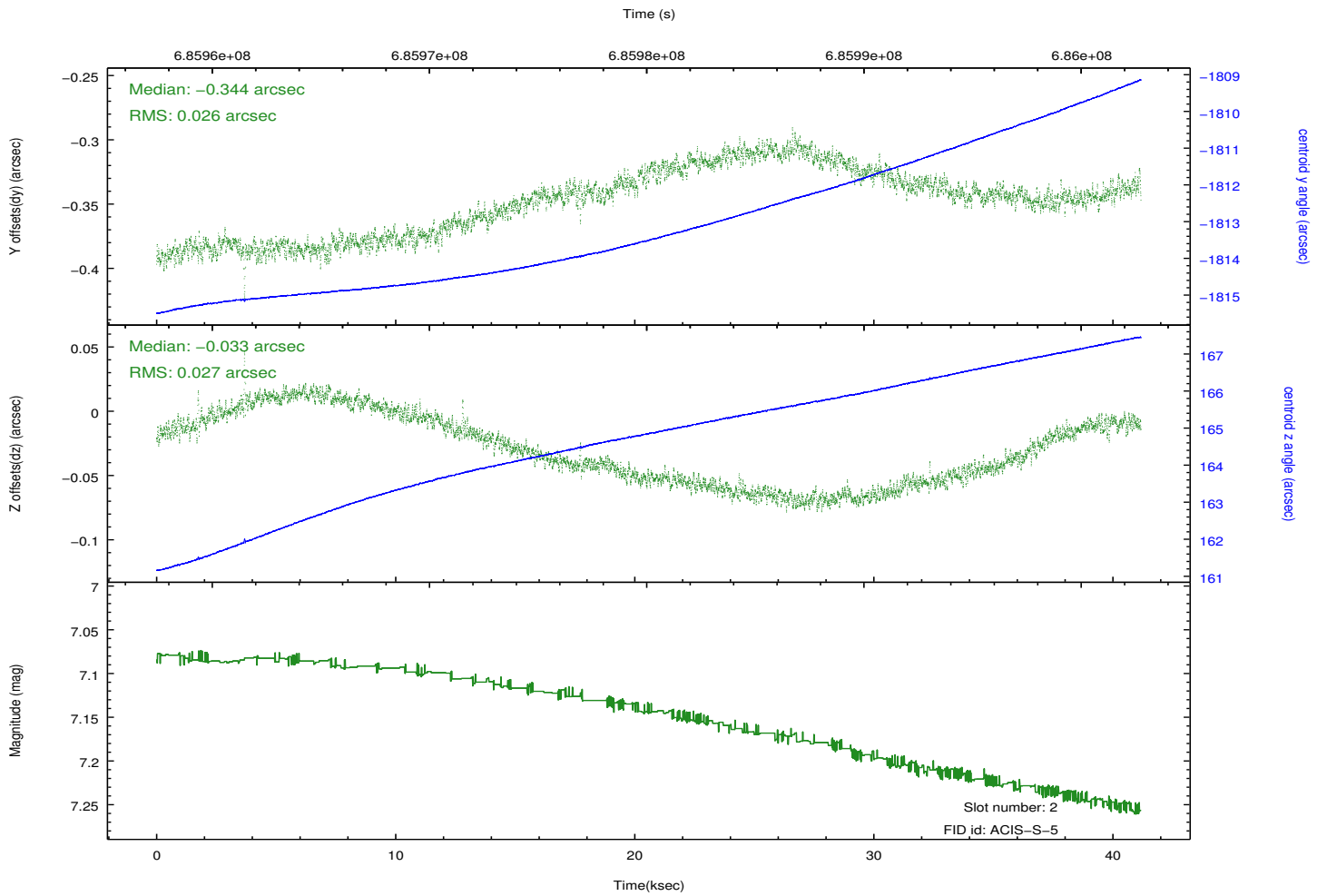
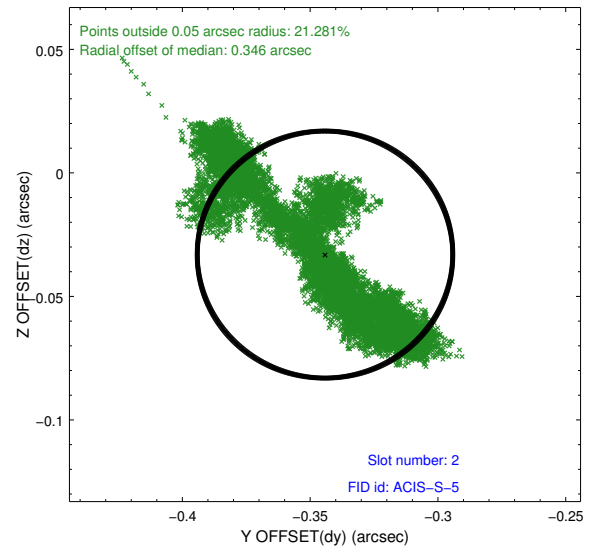
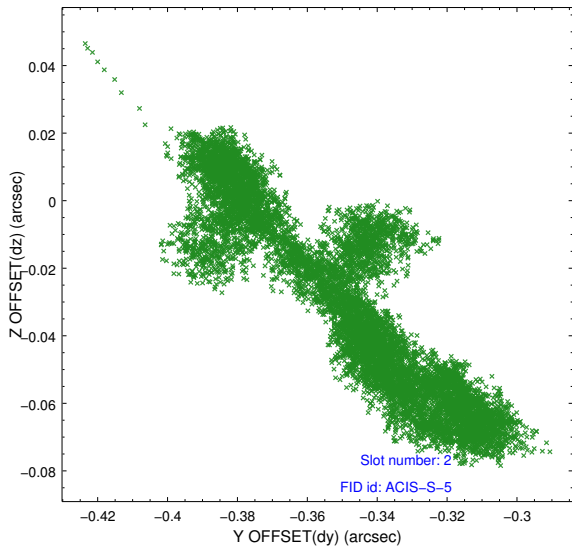
2.5.1 Slot 0



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)	2019.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.068800315976

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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Optional chip I2 not included.