

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5801 - L2 Version 4
Chandra X-Ray Center

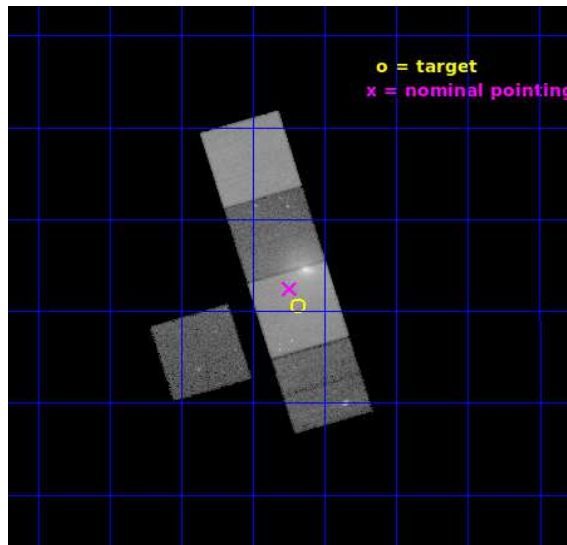
L2 Processing Date : Oct 11 2020

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

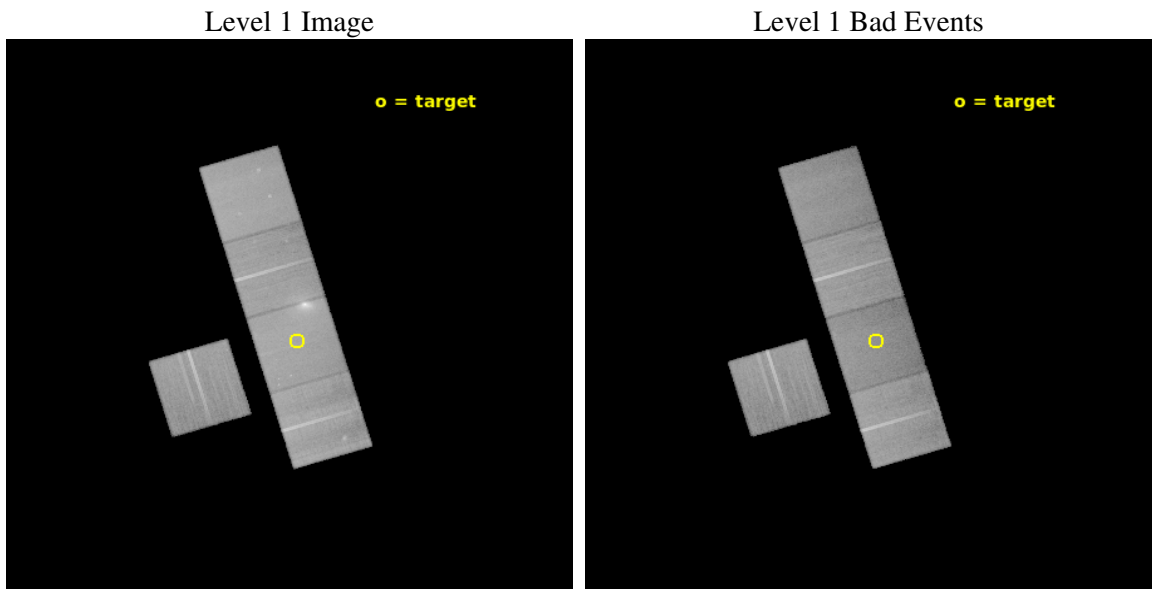
seq_num	800514	Sequence number
obs_id	5801	Observation id
title	Intracluster Gas Velocity Tomography in RXJ0419.6+0225	Proposal ti
observer	renato dupke	Principal investigator
object	RX J0419.6+0225	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	64.920833	Observer's specified target RA [deg]
dec_targ	2.341667	Observer's specified target Dec [deg]
ra_nom	64.935499774882	Nominal RA [deg]
dec_nom	2.3740689484345	Nominal Dec [deg]
roll_nom	73.160157857562	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45036.595388502	Sum of GTIs [s]
livetime	44448.159114292	Livetime [s]
ontime3	45033.331258327	Sum of GTIs [s]
ontime5	45036.554348499	Sum of GTIs [s]
ontime6	45027.090407372	Sum of GTIs [s]
ontime7	45036.595388502	Sum of GTIs [s]
ontime8	45036.431228489	Sum of GTIs [s]
l2events	549268	Number of level 2 events



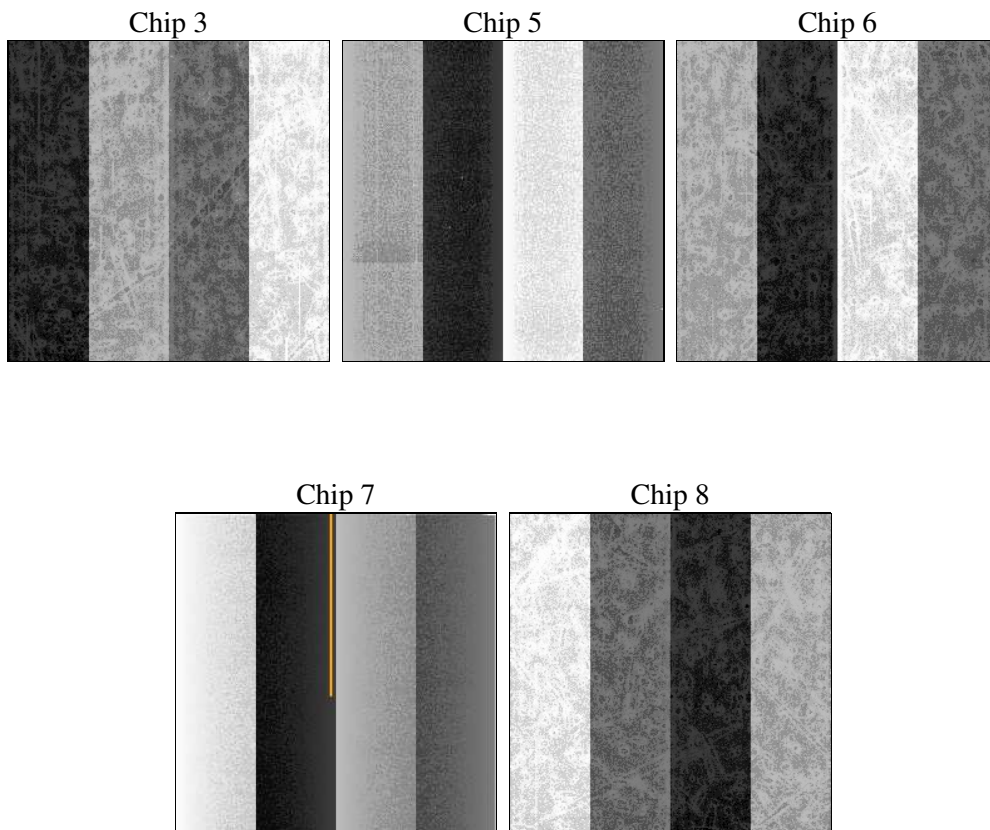
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	45036.595388502	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	45033.331258327	Sum of GTIs [s]
date	2020-10-11T04:01:56	Date and time of file creation	ontime5	45036.554348499	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	45027.090407372	Sum of GTIs [s]
			ontime7	45036.595388502	Sum of GTIs [s]
			ontime8	45036.431228489	Sum of GTIs [s]
			l1events	1842074	Number of level 1 events

2.1.4 Events

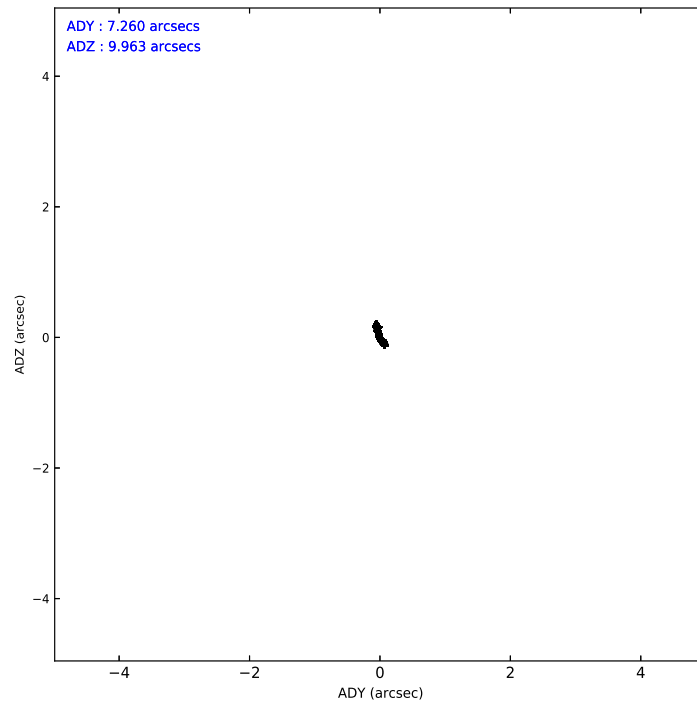
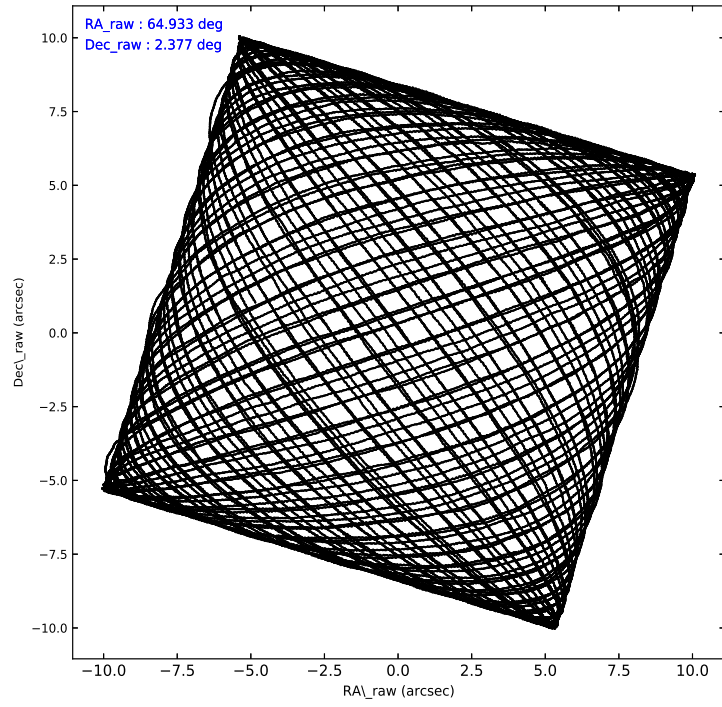
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	293049	400122	347937	420587	380379
rejected events	262841	203771	277706	182167	289440
rejected %	89%	50%	79%	43%	76%

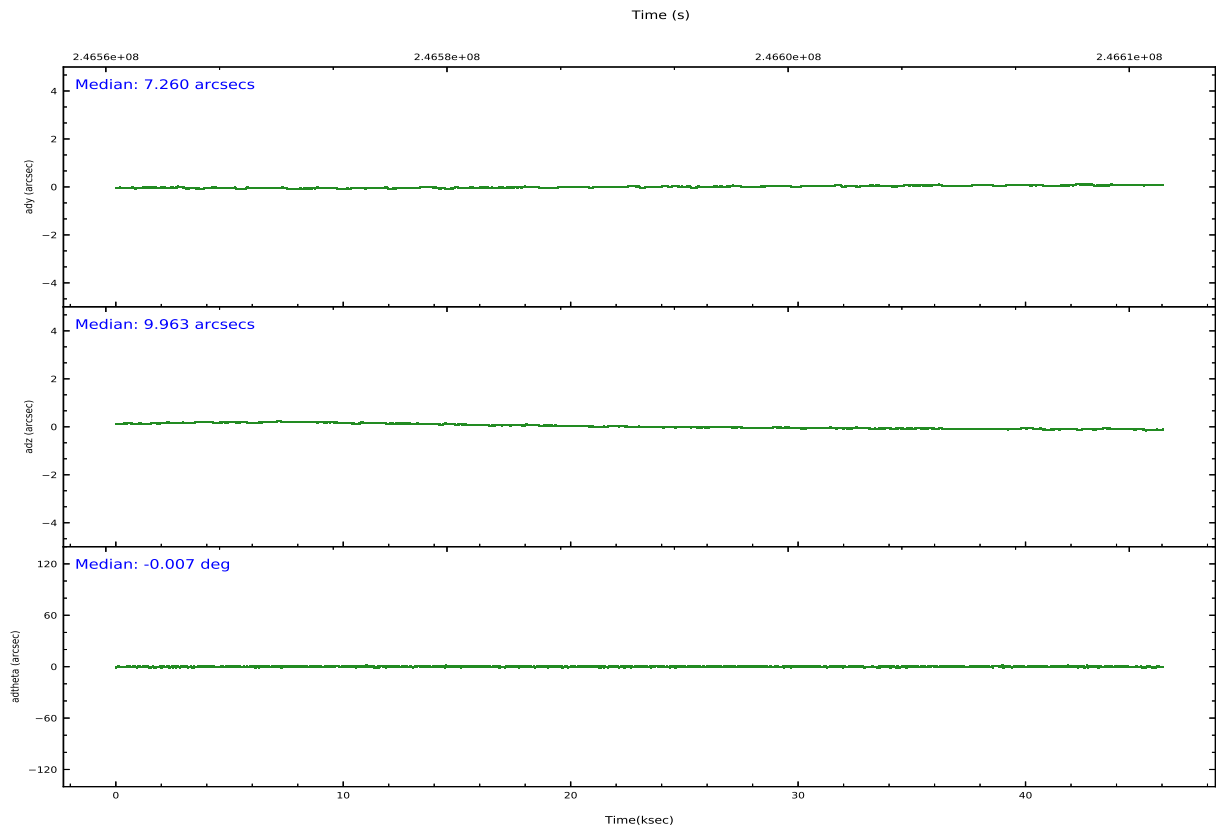
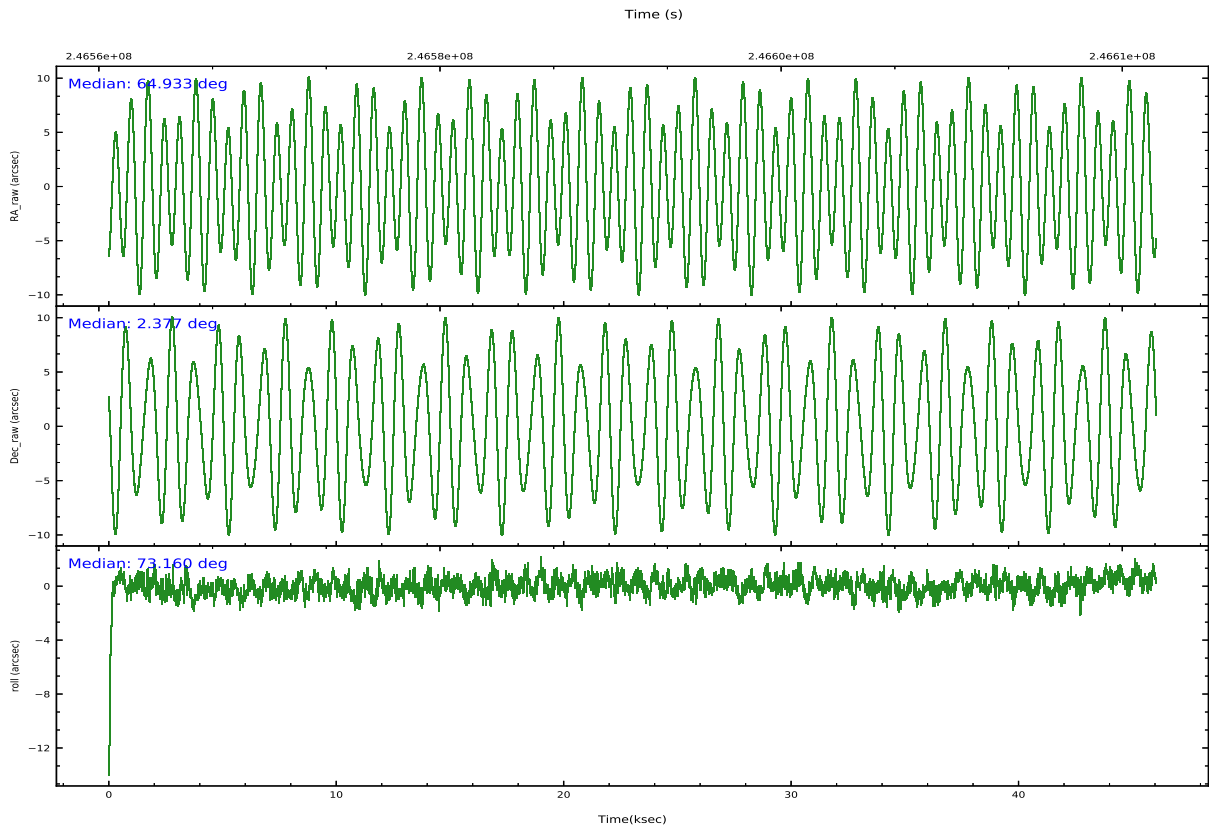
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	12176	15894	44206	37815	30754
	4%	3%	12%	8%	8%
grade 1 events	164	380	254	273	287
	0%	0%	0%	0%	0%
grade 2 events	6010	58020	10117	54422	19628
	2%	14%	2%	12%	5%
grade 3 events	3262	9174	4473	25238	9325
	1%	2%	1%	6%	2%
grade 4 events	3195	8803	4291	24645	8948
	1%	2%	1%	5%	2%
grade 5 events	11494	32110	12192	35423	17209
	3%	8%	3%	8%	4%
grade 6 events	5571	104481	7158	96342	22285
	1%	26%	2%	22%	5%
grade 7 events	251177	171260	265246	146429	271943
	85%	42%	76%	34%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	64.939925	64.935499774882	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.350475	2.3740689484345	Alternating exposures requested	N	N
[deg] Pointing Roll	73.001877	73.160157857562	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	246566487.184000	246565127.06853			
Observation start date	2005-10-24T18:40:23	2005-10-24T18:18:47			
[s] Observation end time (MET)	246611487.184000	246612060.79569			
Observation end date	2005-10-25T07:10:23	2005-10-25T07:21:00			
Read mode	TIMED	TIMED			

2.3 Aspect





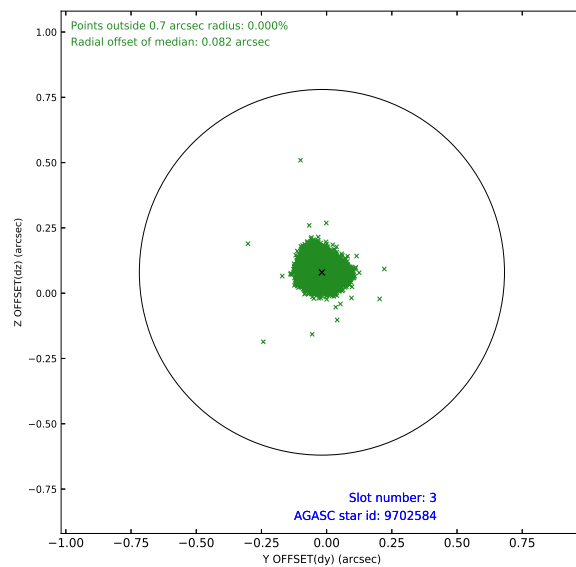
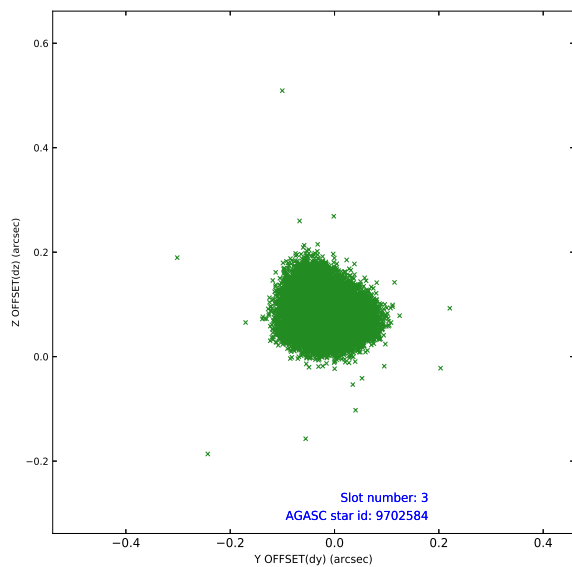
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	11232	1.000	0.050	-0.065	0.009	0.015	0.000000	0.000000	936.10	-1726
1	FID		ACIS-S-5	7.24	11232	1.000	-0.118	0.021	0.006	0.011	0.000000	0.000000	-1813.10	170
2	FID		ACIS-S-6	7.35	11230	1.000	0.046	0.055	0.010	0.016	0.000000	0.000000	401.61	814
3	GUIDE	used	9702584	7.43	22462	1.000	-0.018	0.080	0.055	0.085	64.640935	2.470534	98.72	1154
4	GUIDE	used	9703224	7.74	22459	1.000	0.087	-0.006	0.066	0.102	64.728794	1.773459	-2208.46	119
5	GUIDE	used	9830984	7.07	22464	1.000	-0.078	0.138	0.073	0.124	65.442956	2.390106	665.09	-1688
6	GUIDE	used	10093656	8.31	22461	1.000	-0.027	0.020	0.059	0.095	64.910383	2.992173	2178.20	776
7	GUIDE	used	10092712	7.08	22464	1.000	0.028	-0.241	0.068	0.104	64.322459	2.529688	-31.78	2312

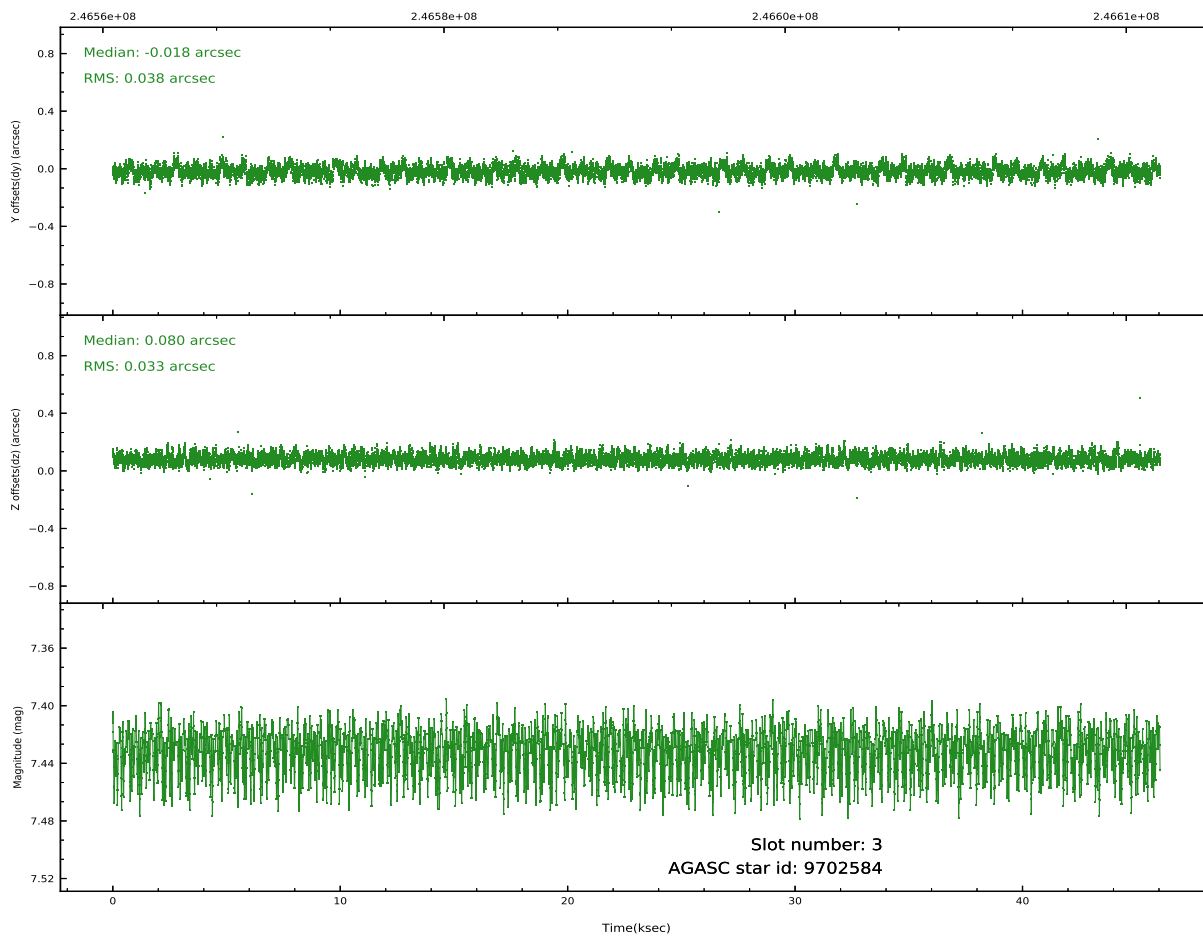
∞

2.4 Star Slots

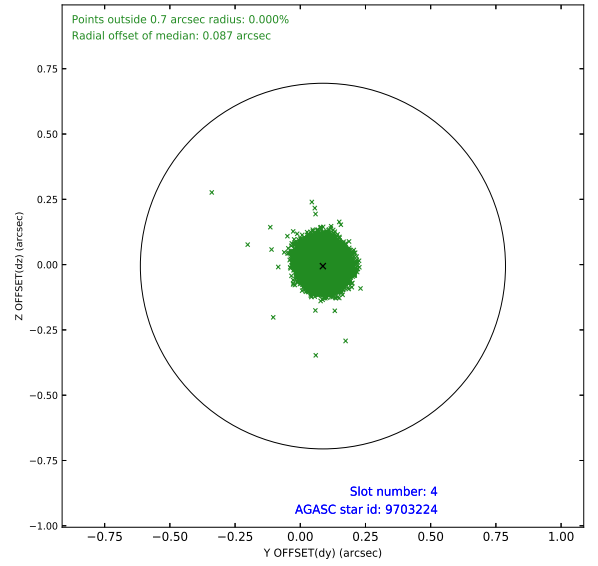
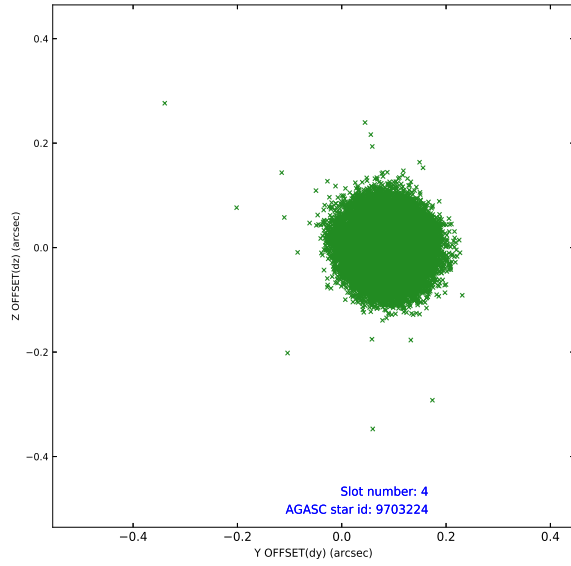
2.4.1 Slot 3



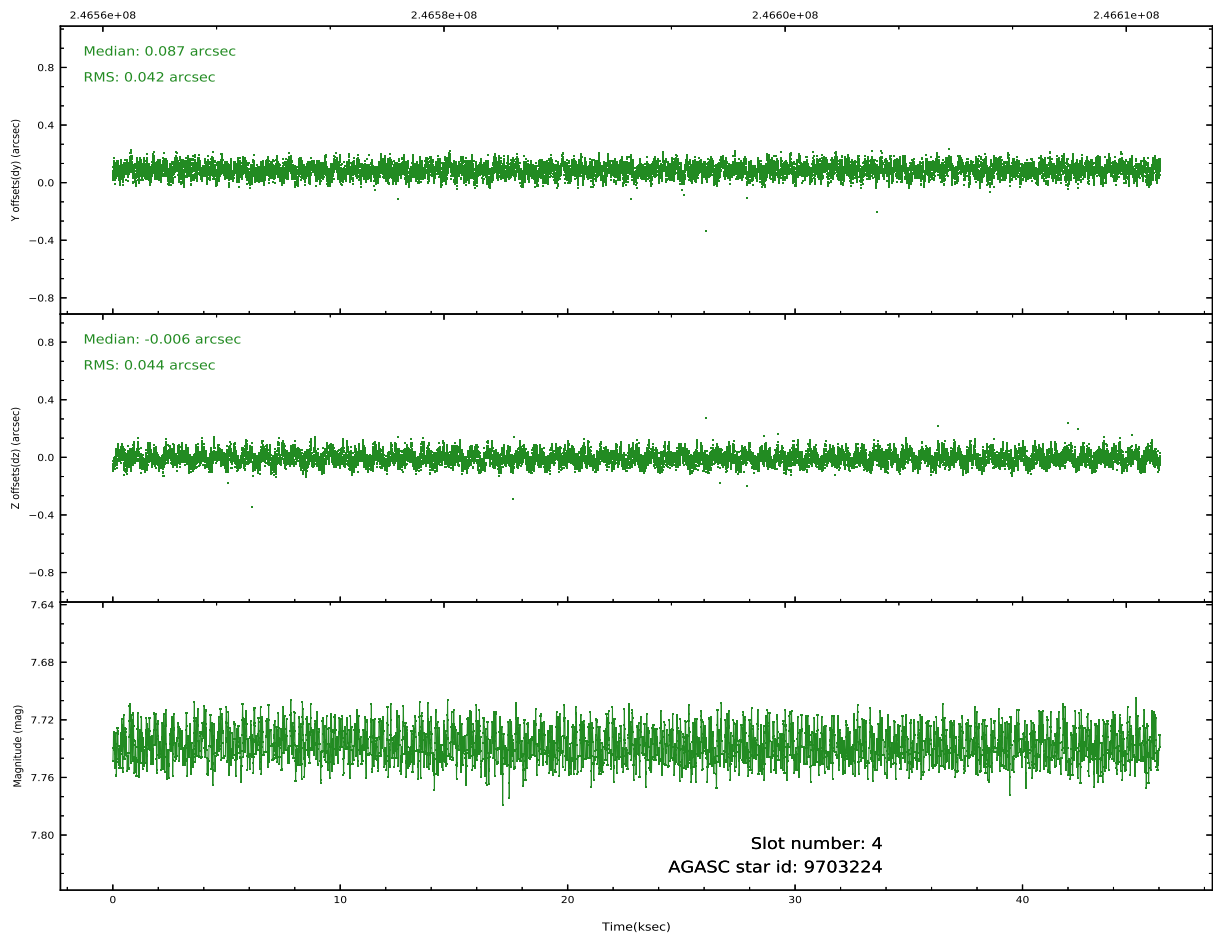
Time (s)



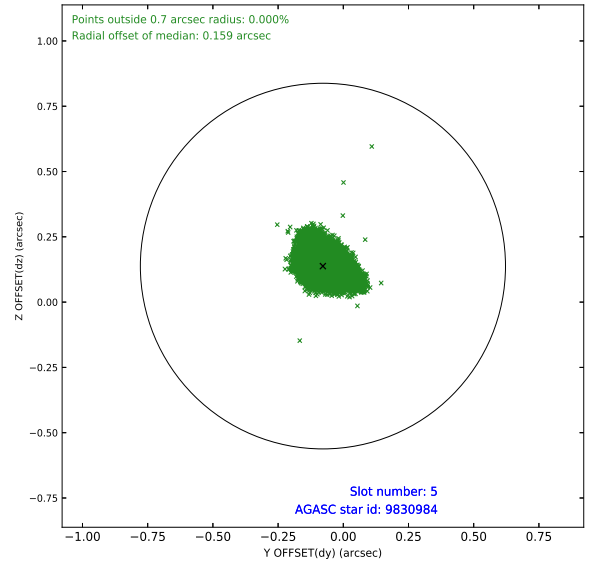
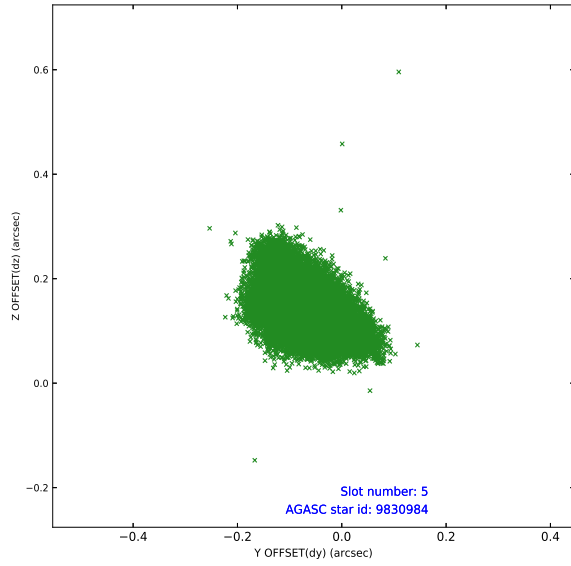
2.4.2 Slot 4



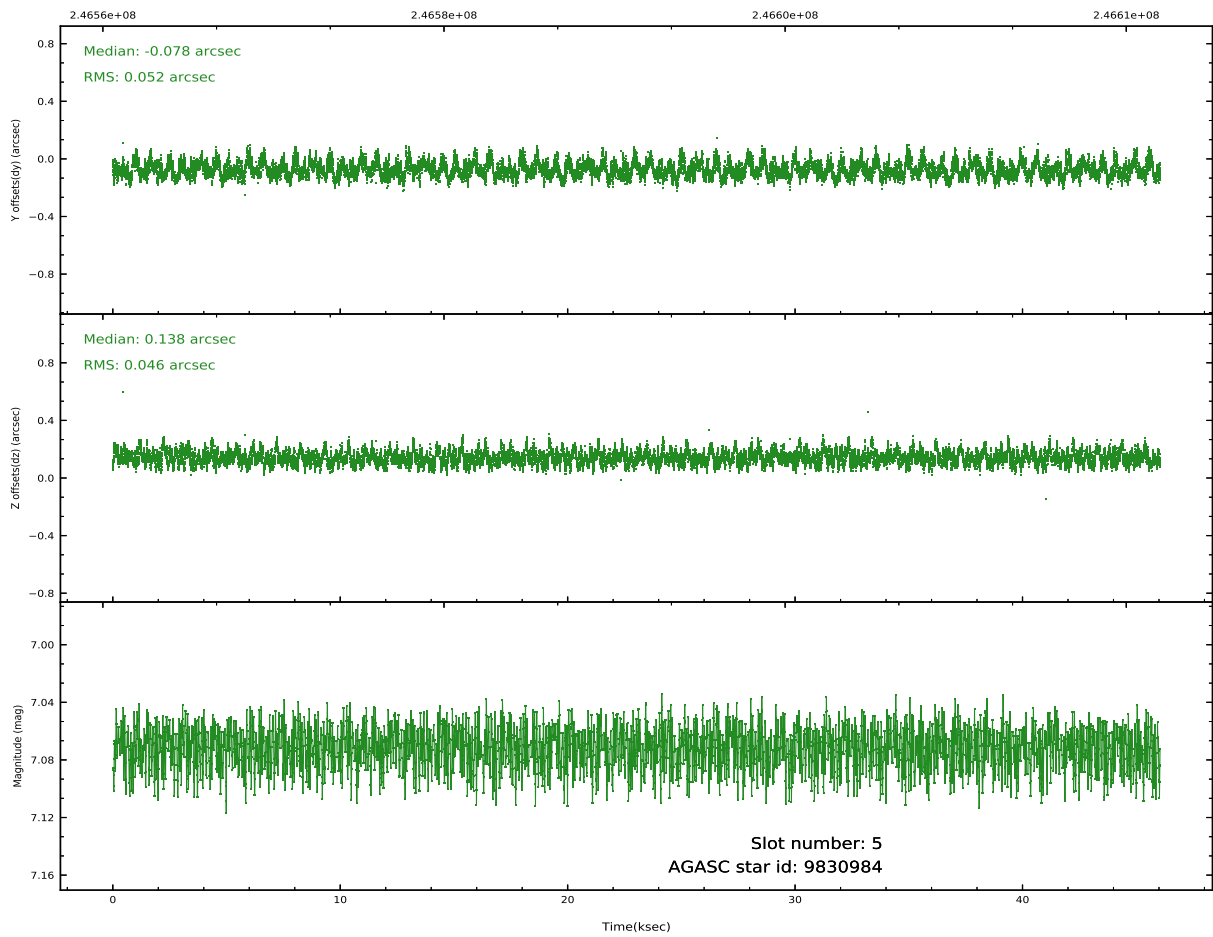
Time (s)



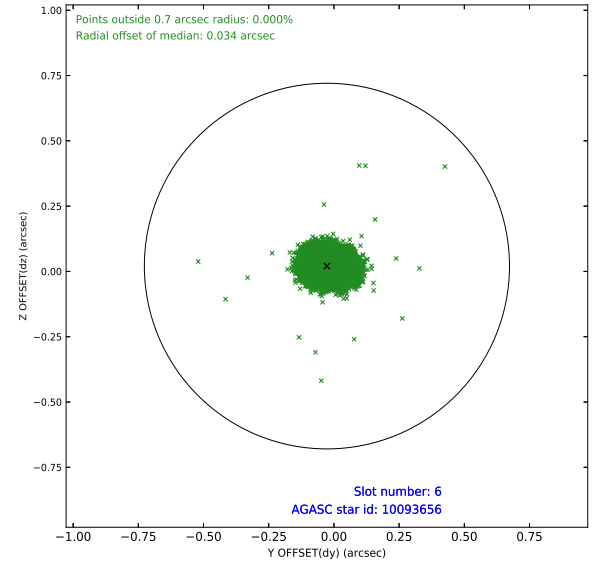
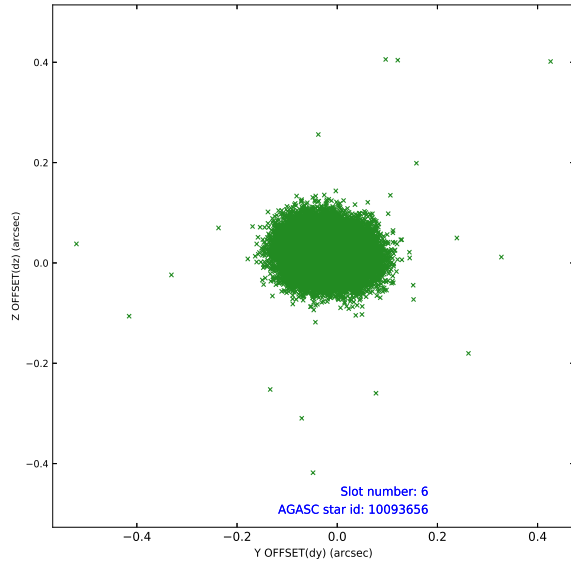
2.4.3 Slot 5



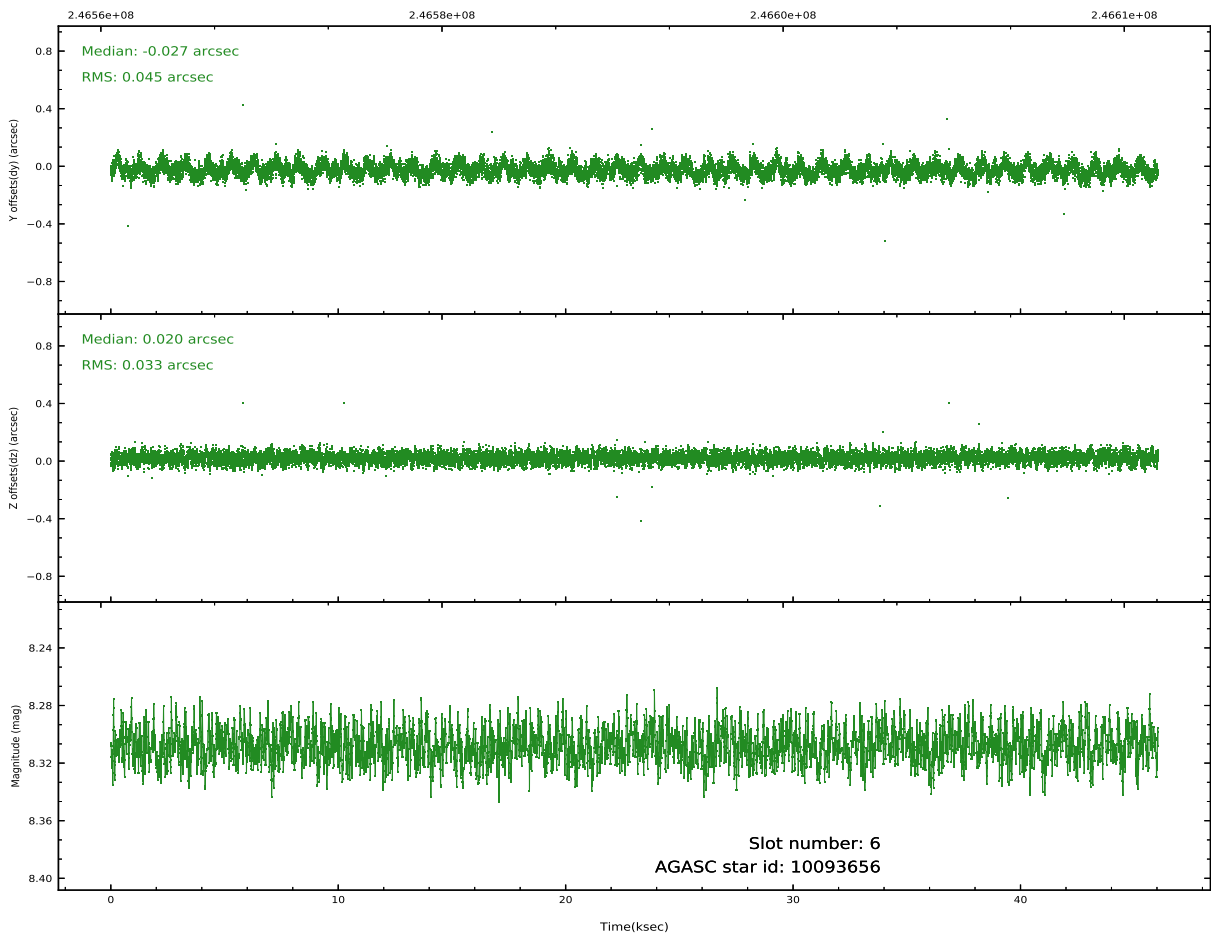
Time (s)



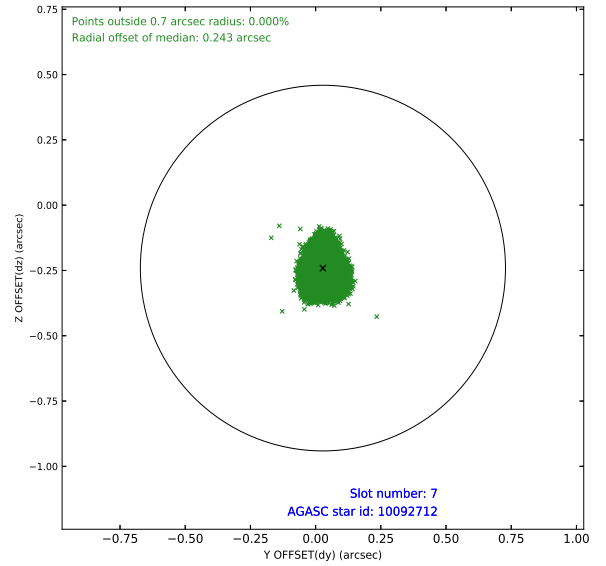
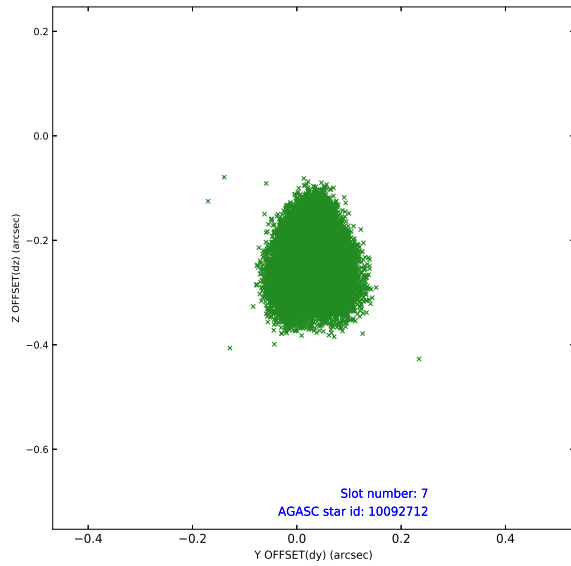
2.4.4 Slot 6



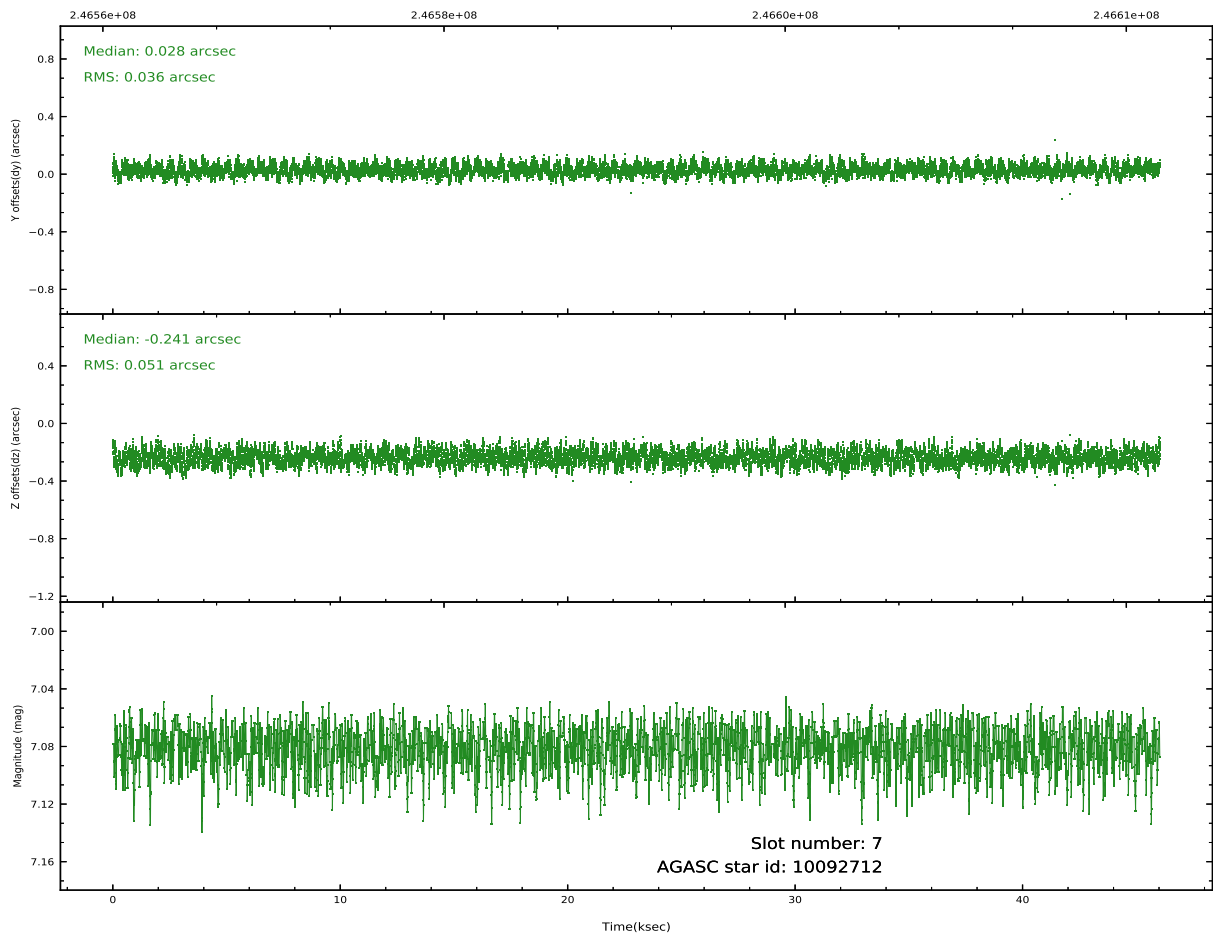
Time (s)



2.4.5 Slot 7

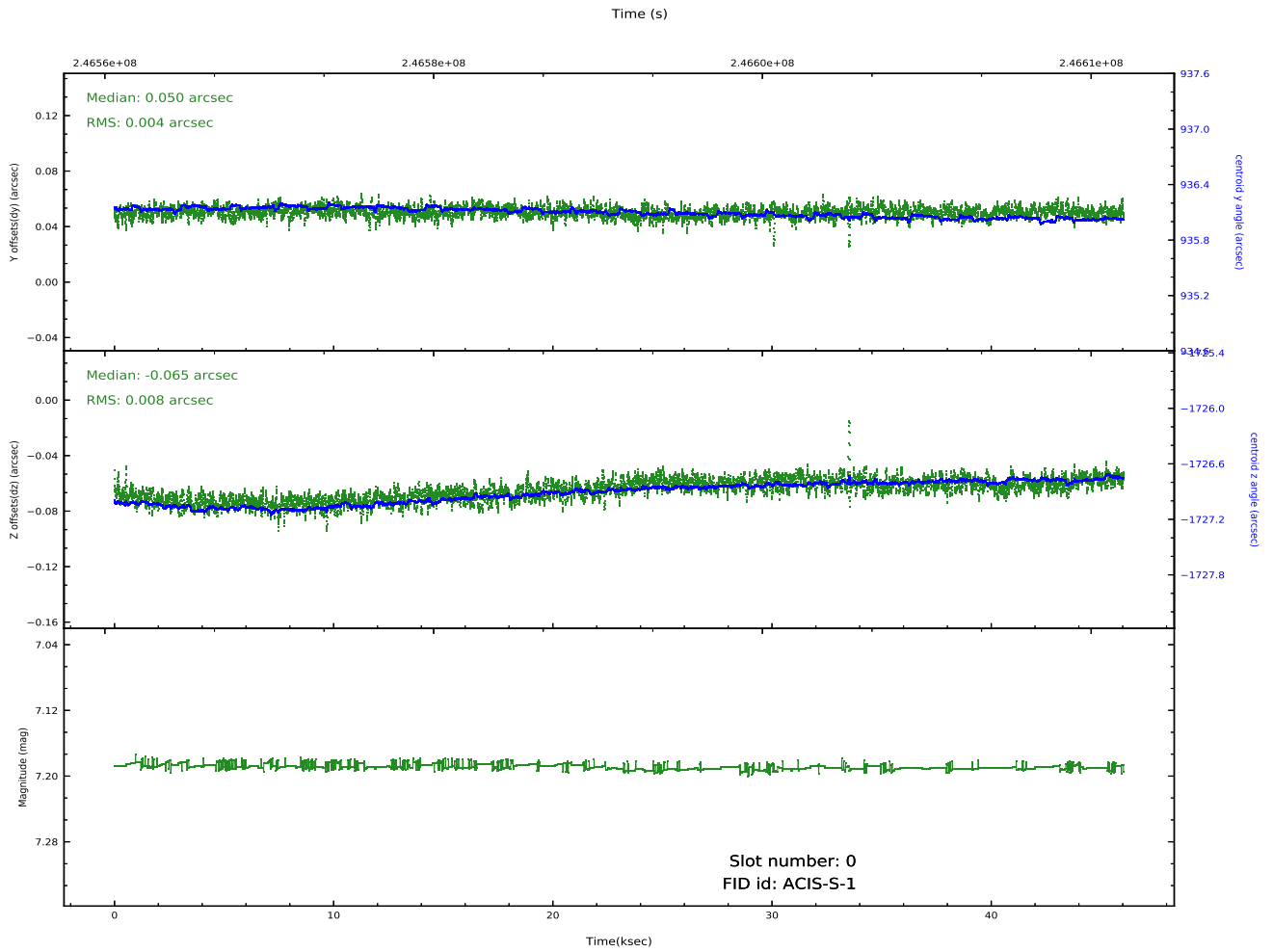
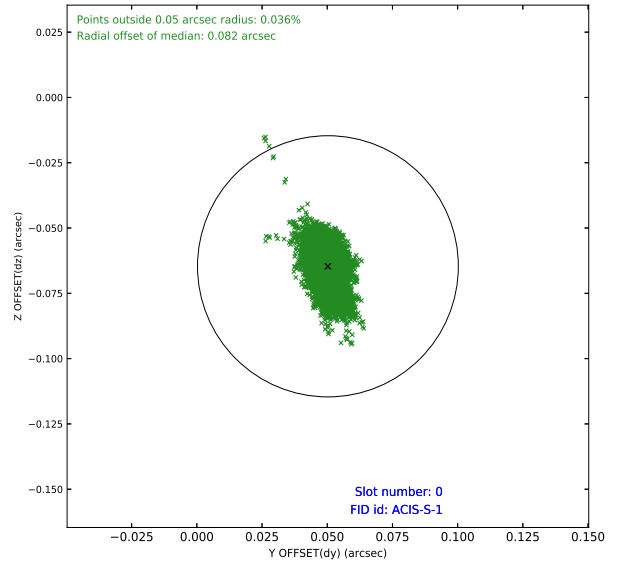
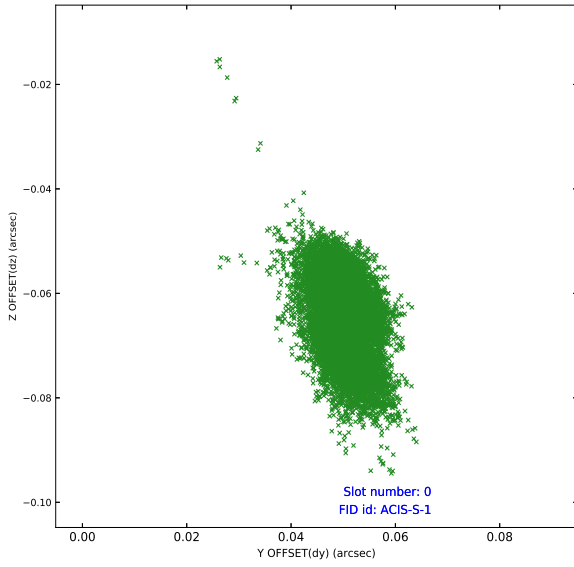


Time (s)

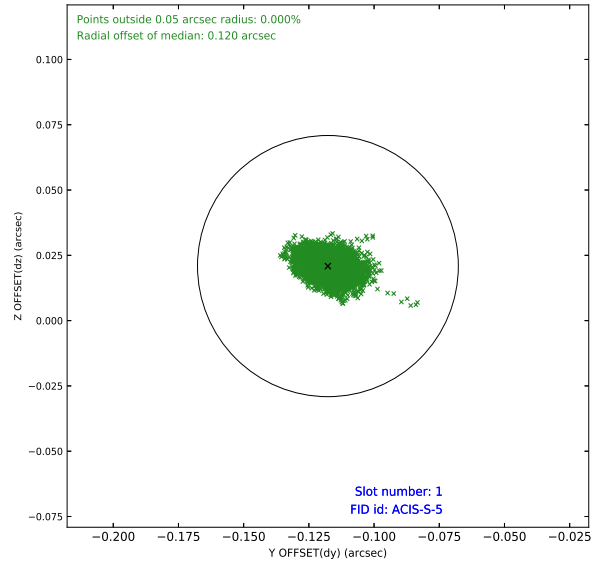
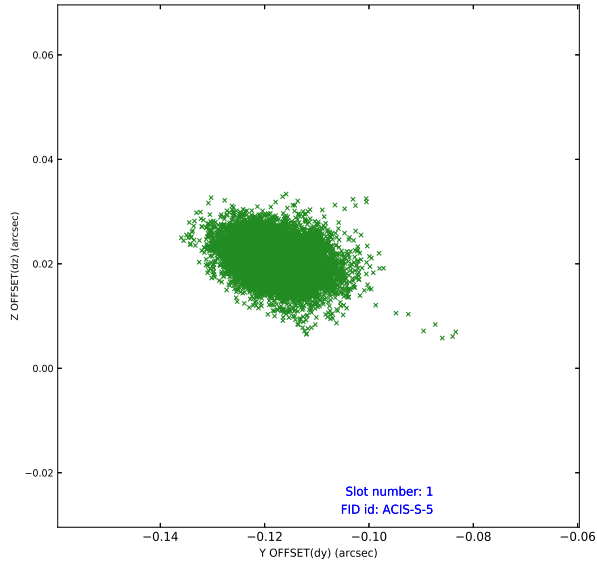


2.5 FID Slots

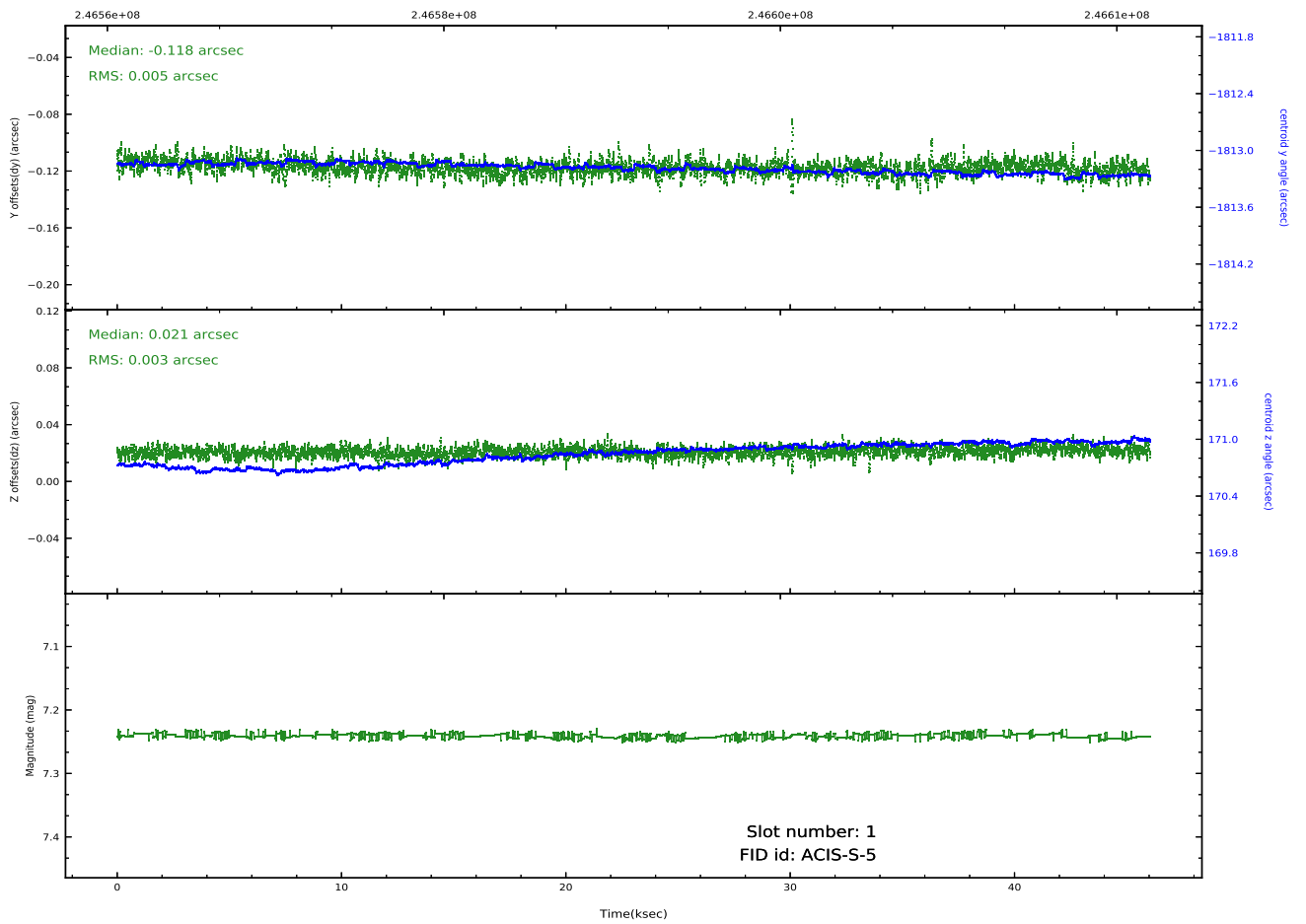
2.5.1 Slot 0



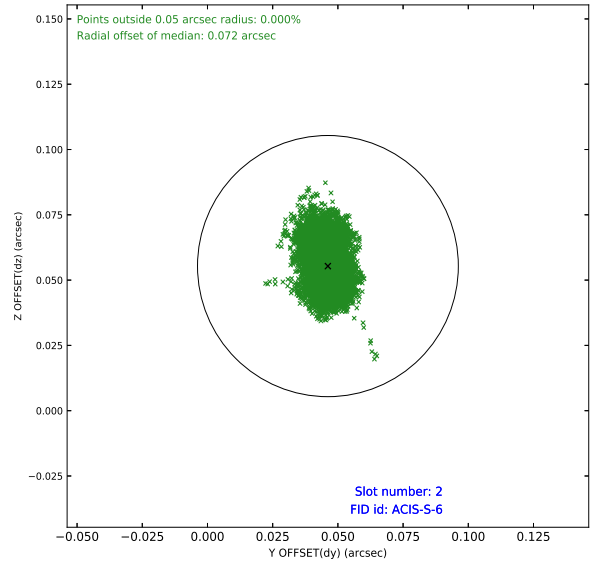
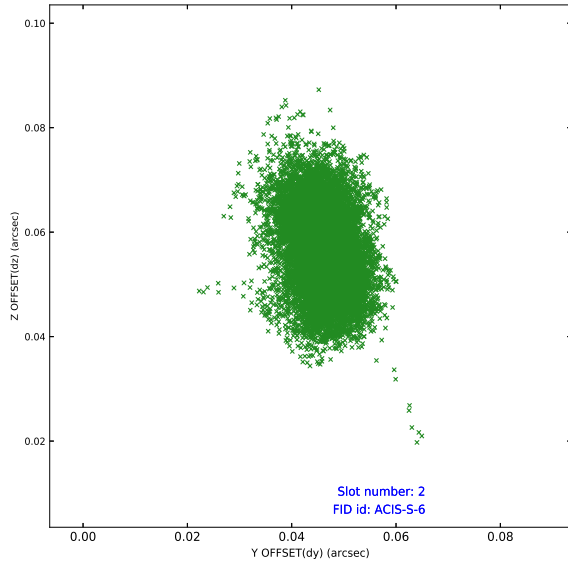
2.5.2 Slot 1



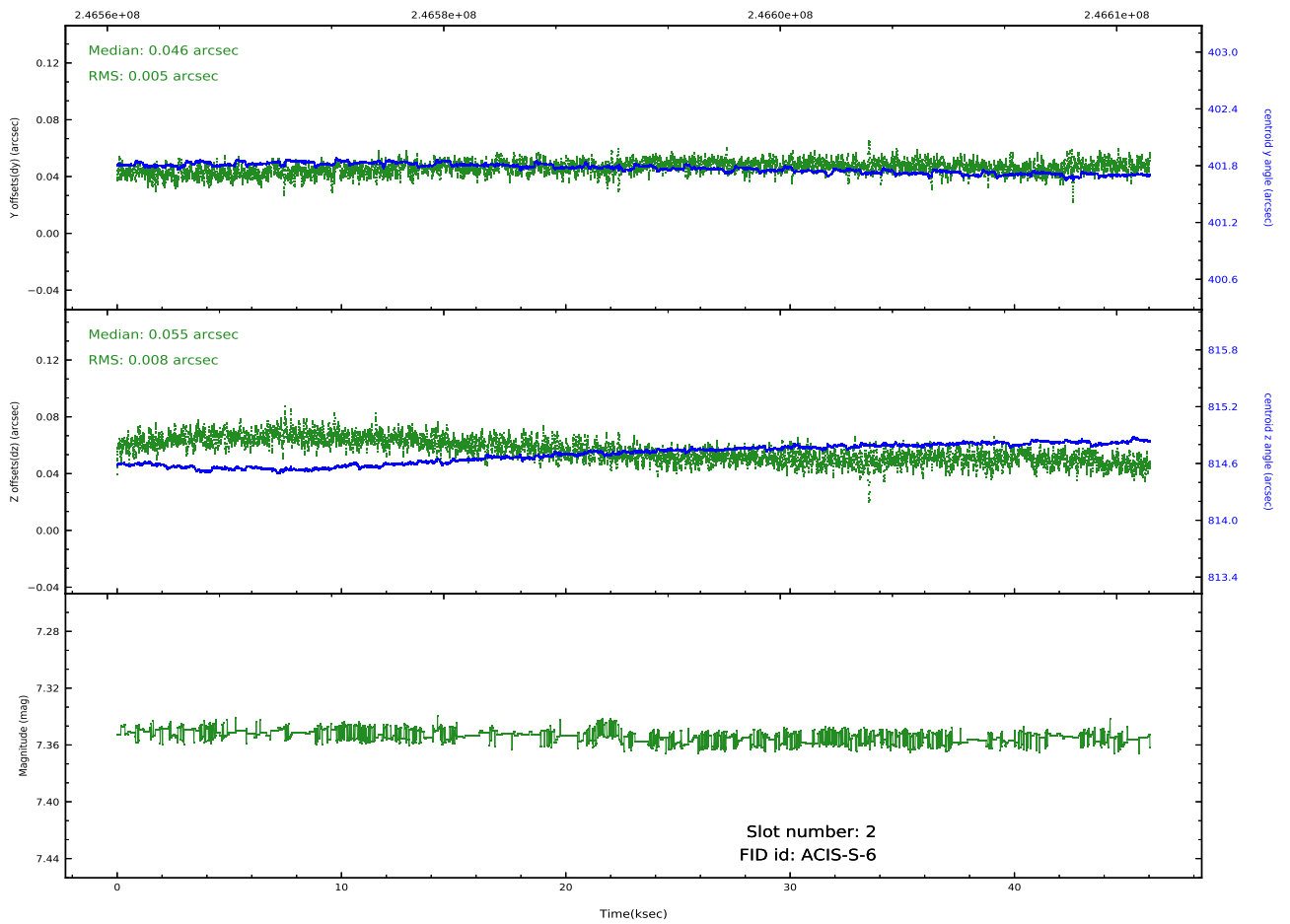
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.03679

A.2 Comments