

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20381 - L2 Version 2
Chandra X-Ray Center

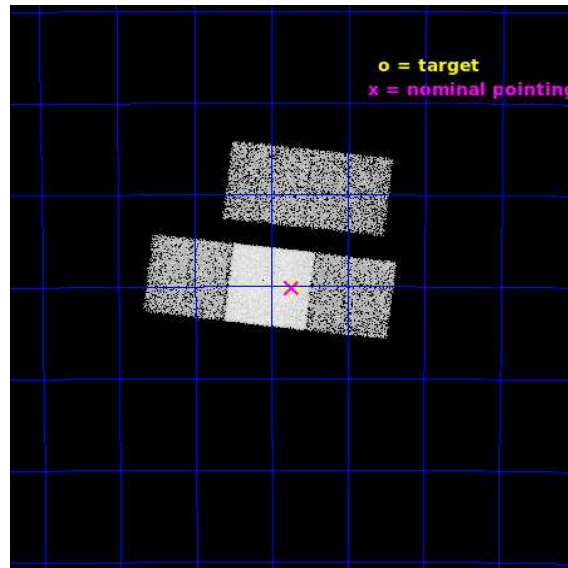
L2 Processing Date : Oct 24 2020

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1 Front

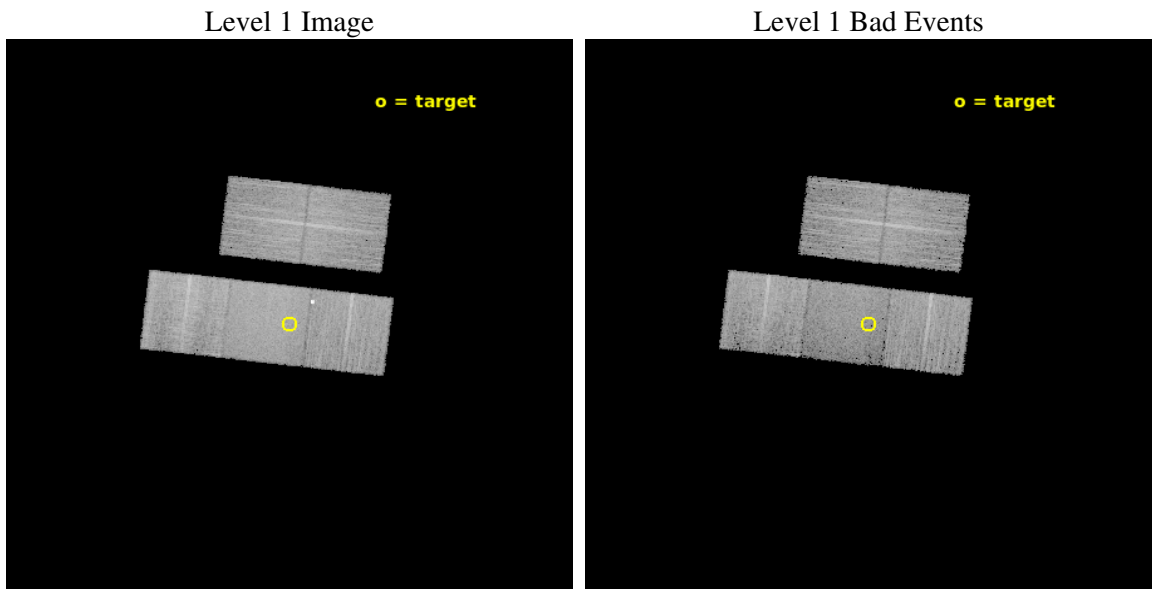
seq_num	703486	Sequence number
obs_id	20381	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2235-5750	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	338.932917	Observer's specified target RA [deg]
dec_targ	-57.837194	Observer's specified target Dec [deg]
ra_nom	338.93373734117	Nominal RA [deg]
dec_nom	-57.835904150689	Nominal Dec [deg]
roll_nom	186.78200454425	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9042.7000696659	Sum of GTIs [s]
livetime	8924.5505361168	Livetime [s]
ontime2	9039.55902946	Sum of GTIs [s]
ontime3	9042.7000696659	Sum of GTIs [s]
ontime6	9042.7000696659	Sum of GTIs [s]
ontime7	9042.7000696659	Sum of GTIs [s]
ontime8	9042.7000696659	Sum of GTIs [s]
l2events	62420	Number of level 2 events



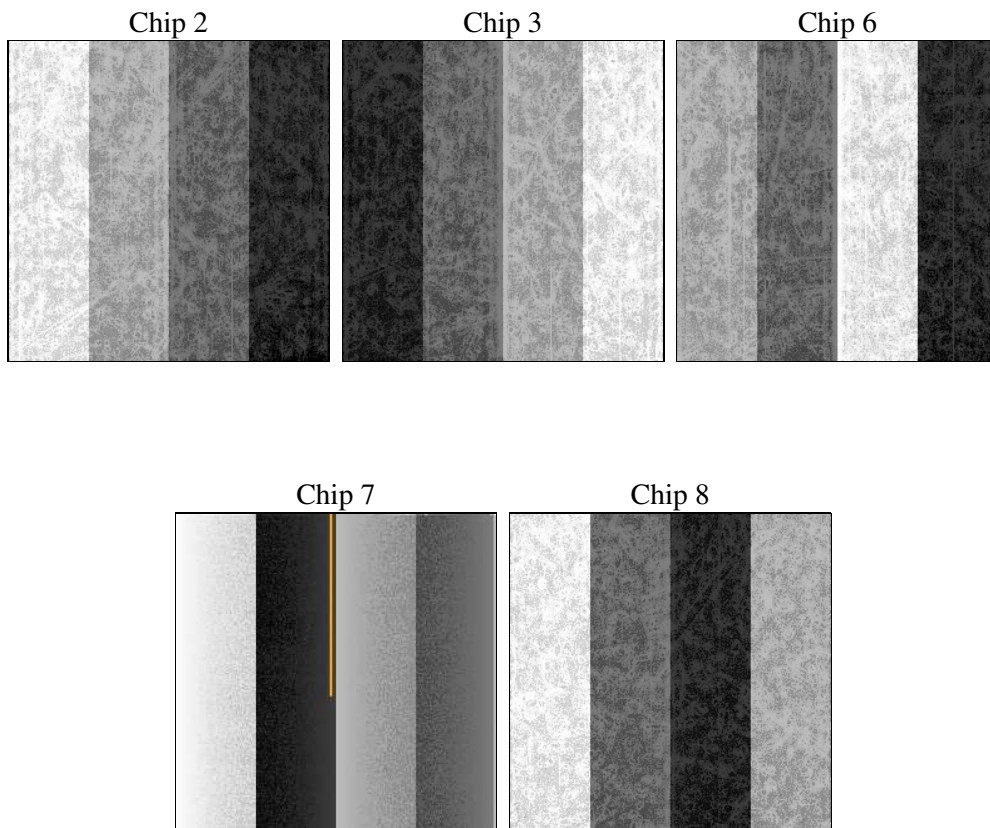
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9042.7000696659	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9039.55902946	Sum of GTIs [s]
date	2020-10-24T18:16:14	Date and time of file creation	ontime3	9042.7000696659	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9042.7000696659	Sum of GTIs [s]
			ontime7	9042.7000696659	Sum of GTIs [s]
			ontime8	9042.7000696659	Sum of GTIs [s]
			l1events	396921	Number of level 1 events

2.1.4 Events

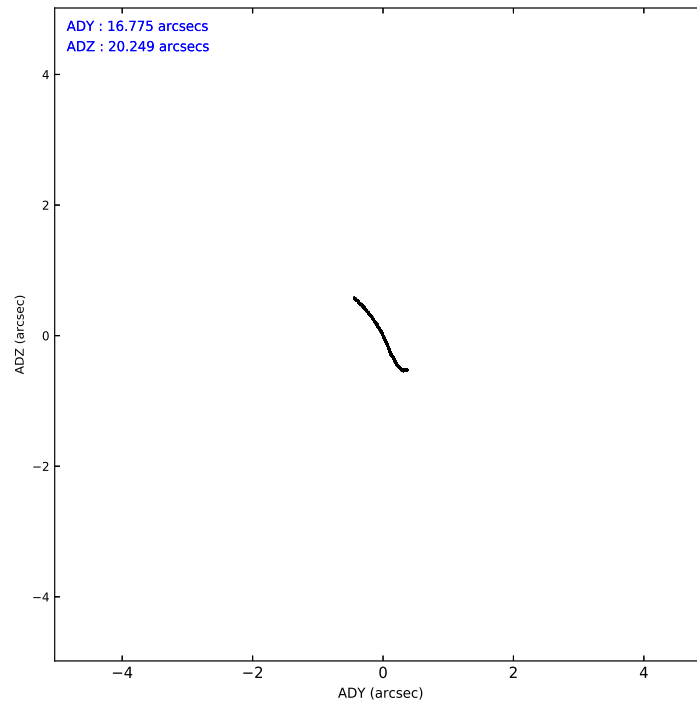
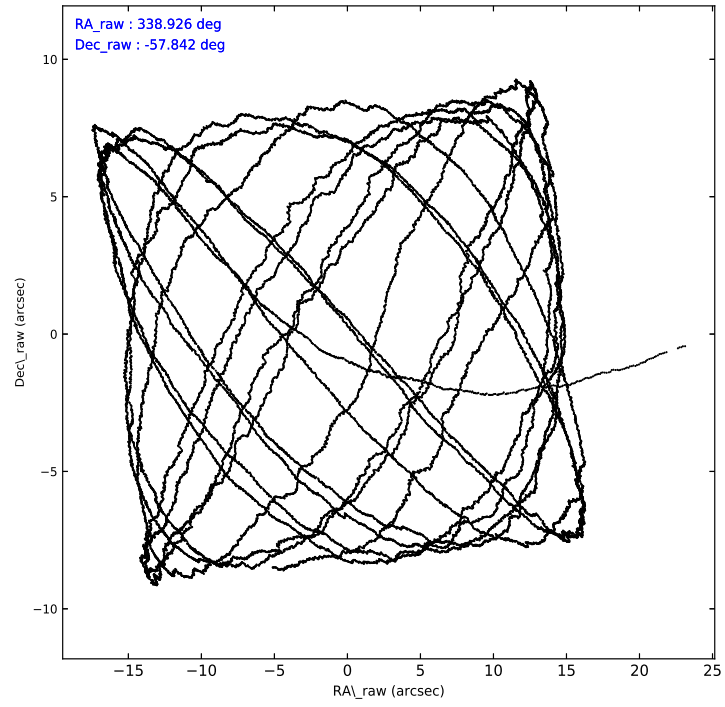
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	70955	70304	76623	87283	91756
rejected events	64103	63444	66184	49720	69607
rejected %	90%	90%	86%	56%	75%

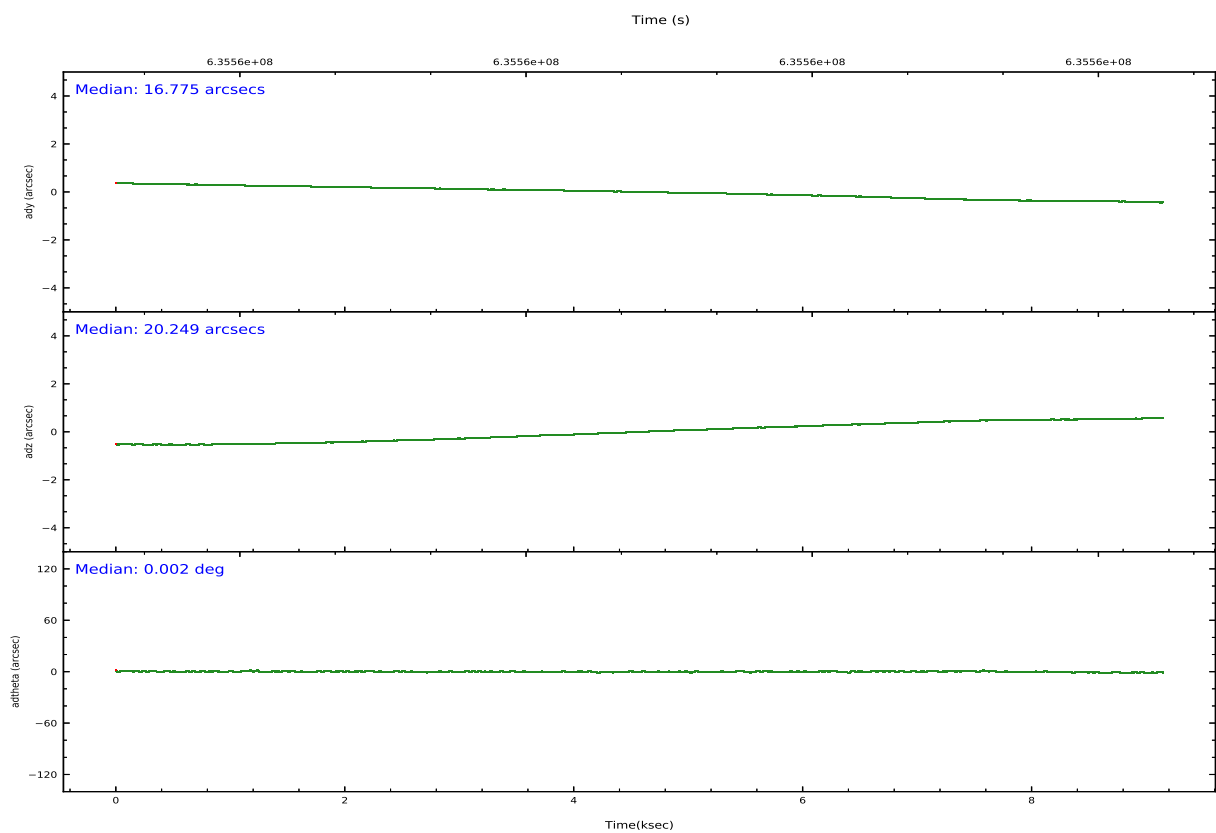
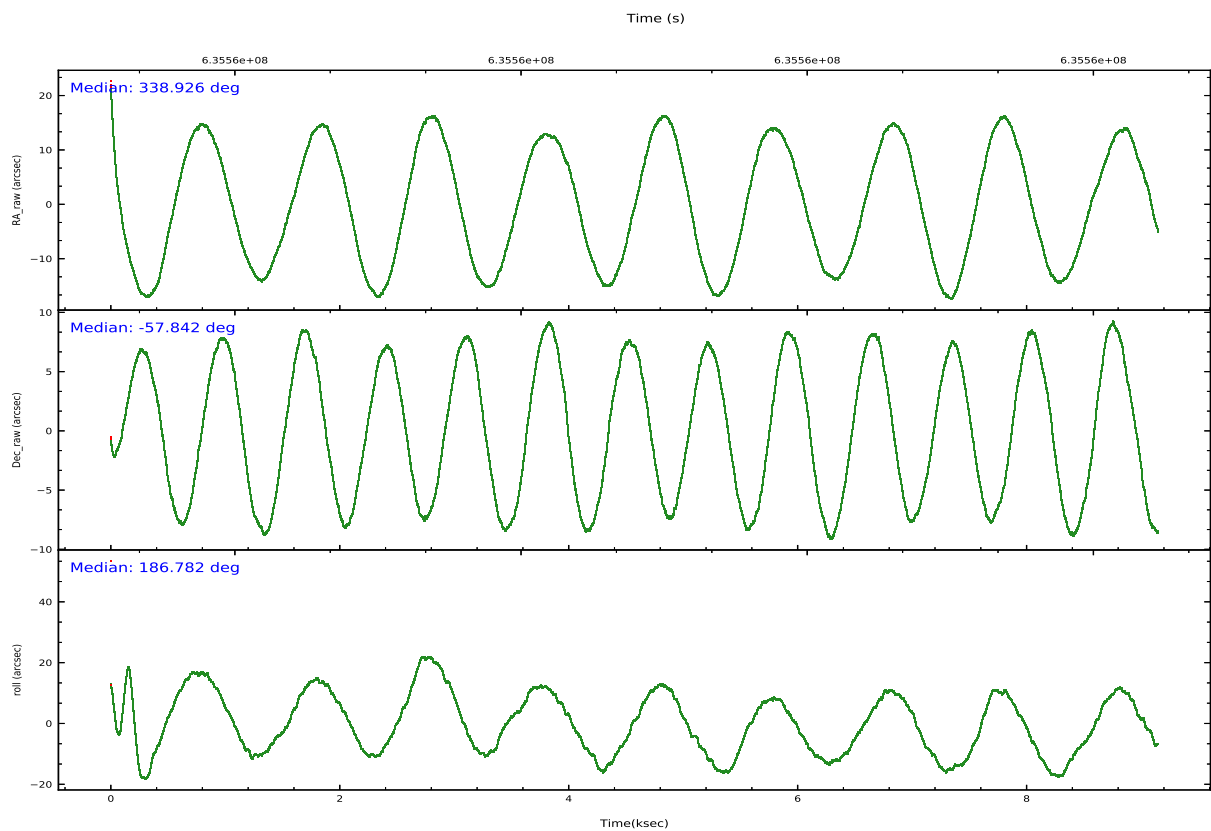
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2447	2313	4810	3223	6095
	3%	3%	6%	3%	6%
grade 1 events	36	36	65	131	68
	0%	0%	0%	0%	0%
grade 2 events	1574	1573	2098	7639	5680
	2%	2%	2%	8%	6%
grade 3 events	661	713	623	3010	2056
	0%	1%	0%	3%	2%
grade 4 events	736	674	661	2995	1964
	1%	0%	0%	3%	2%
grade 5 events	2482	2977	2825	8364	4520
	3%	4%	3%	9%	4%
grade 6 events	1441	1591	2256	20719	6365
	2%	2%	2%	23%	6%
grade 7 events	61578	60427	63285	41202	65008
	86%	85%	82%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	338.966720	338.93373734117	CCD I2 on	O1	Y
[deg] Pointing Dec	-57.825524	-57.835904150689	CCD I3 on	O2	Y
[deg] Pointing Roll	186.671656	186.78200454425	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)	635554066.184000	635552756.09861	CCD S5 on	N	N
Observation start date	2018-02-20T22:46:37	2018-02-20T22:25:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635563066.184000	635564149.99928	On-chip summing requested	N	N
Observation end date	2018-02-21T01:16:37	2018-02-21T01:35:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



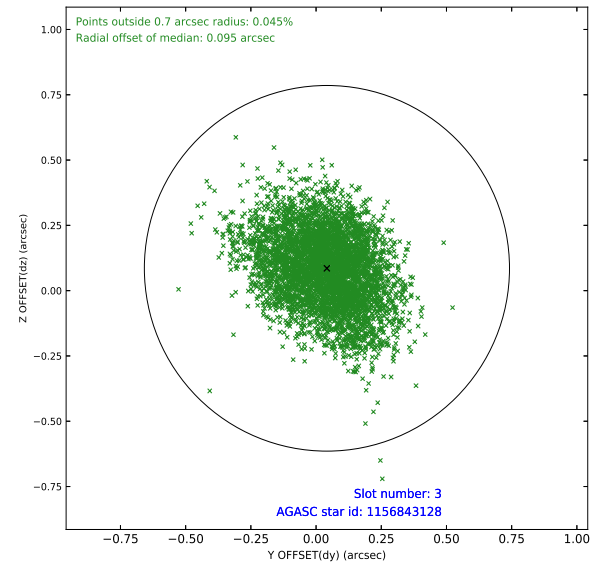
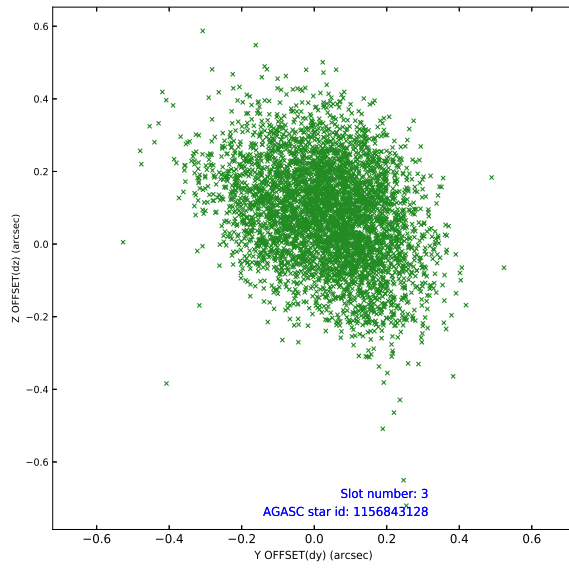


Slot Statistics

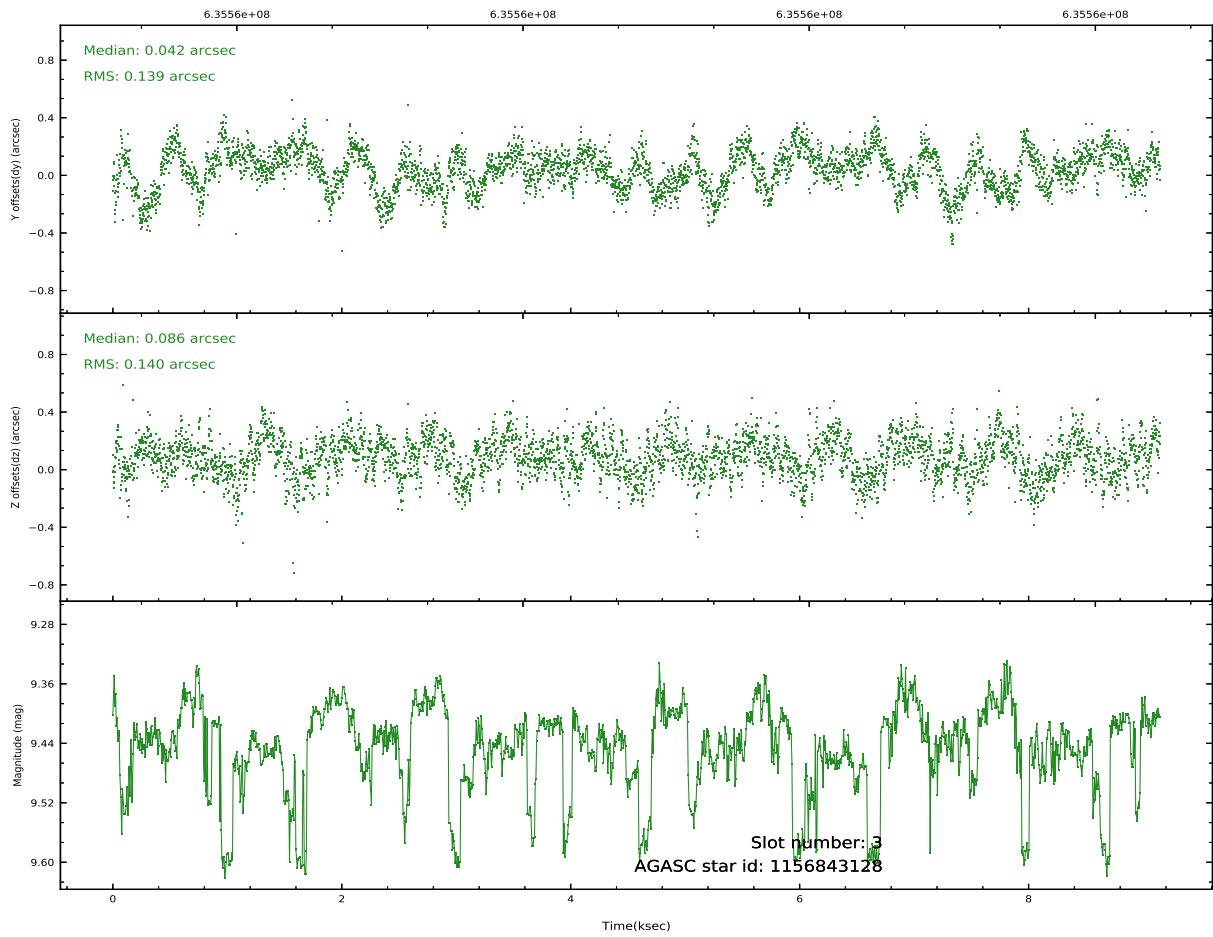
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	2232	1.000	0.084	-0.112	0.014	0.023	0.000000	0.000000	-769.87	-1741
1	FID		ACIS-S-4	7.28	2232	1.000	0.165	-0.011	0.010	0.016	0.000000	0.000000	2143.41	165
2	FID		ACIS-S-5	7.26	2232	1.000	-0.278	0.129	0.021	0.031	0.000000	0.000000	-1822.12	160
3	GUIDE	used	1156843128	9.44	4434	1.000	0.042	0.086	0.207	0.339	338.615138	-57.379141	492.16	-1672
4	GUIDE	used	1157235024	7.76	4464	1.000	-0.017	-0.183	0.107	0.186	337.924581	-58.391923	2191.76	1812
5	GUIDE	used	1157236072	8.12	4461	1.000	0.011	-0.070	0.151	0.249	338.402611	-58.214093	1226.80	1270
6	GUIDE	used	1157242584	9.26	4453	1.000	0.007	0.175	0.186	0.288	337.979283	-57.743063	1852.16	-500
7	GUIDE	used	1157235952	9.58	4459	1.000	-0.030	-0.007	0.227	0.386	338.142860	-58.221187	1718.74	1243

2.4 Star Slots

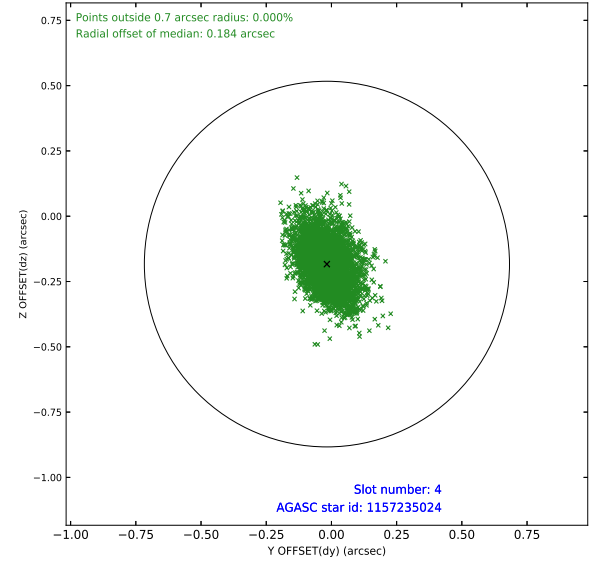
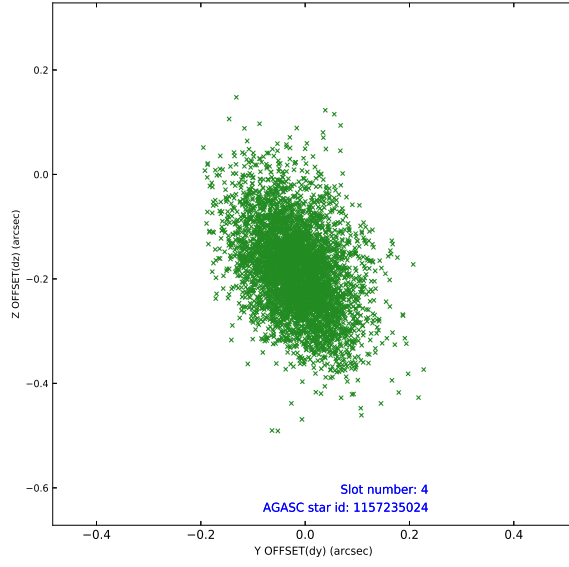
2.4.1 Slot 3



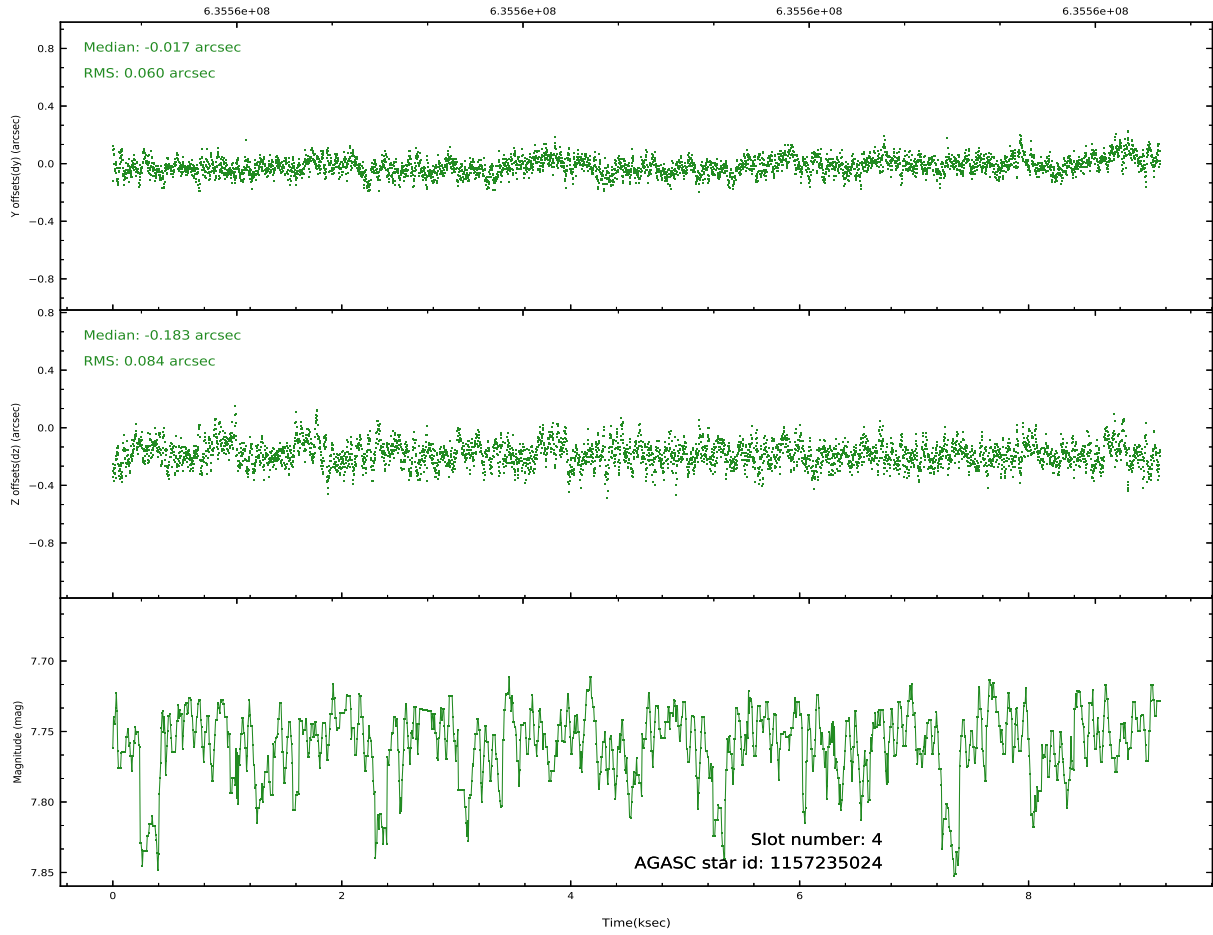
Time (s)



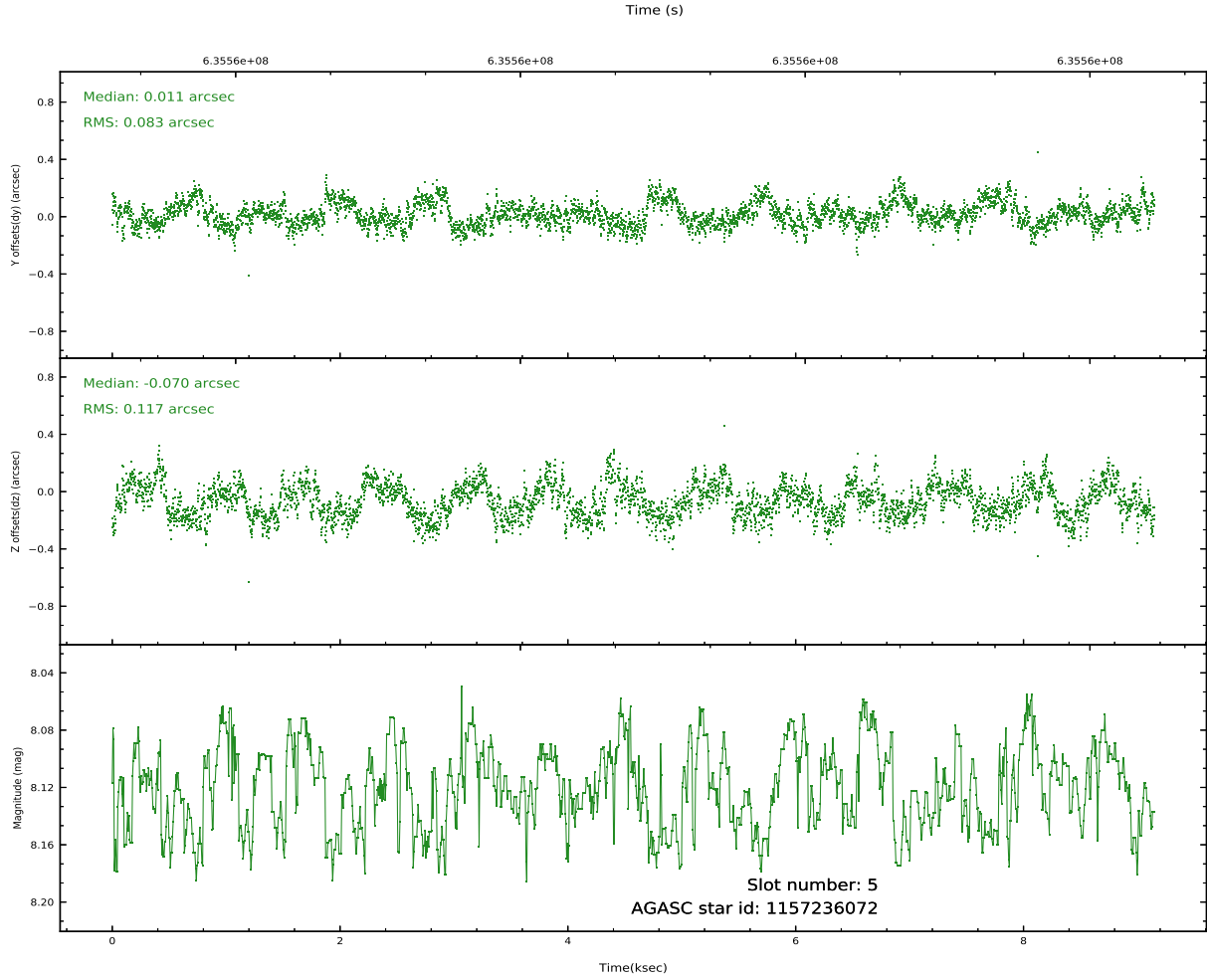
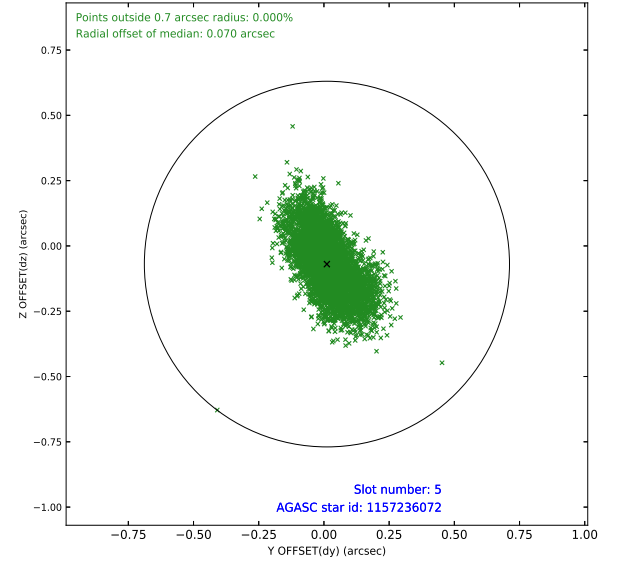
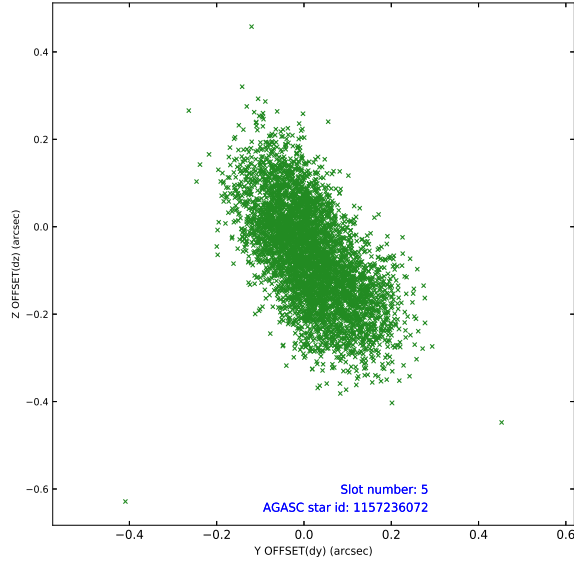
2.4.2 Slot 4



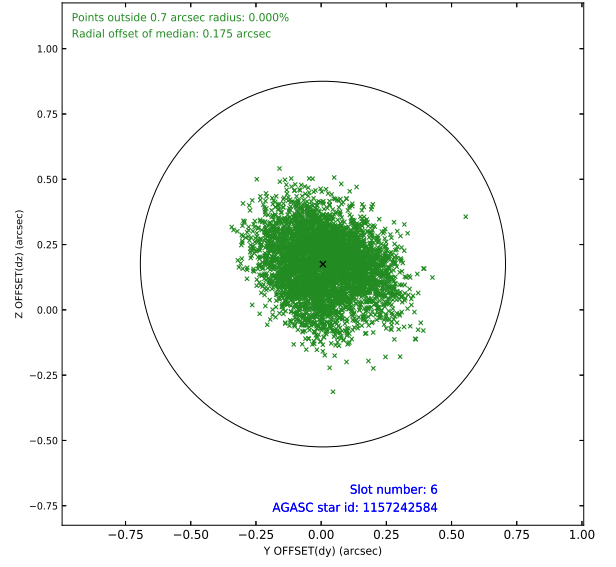
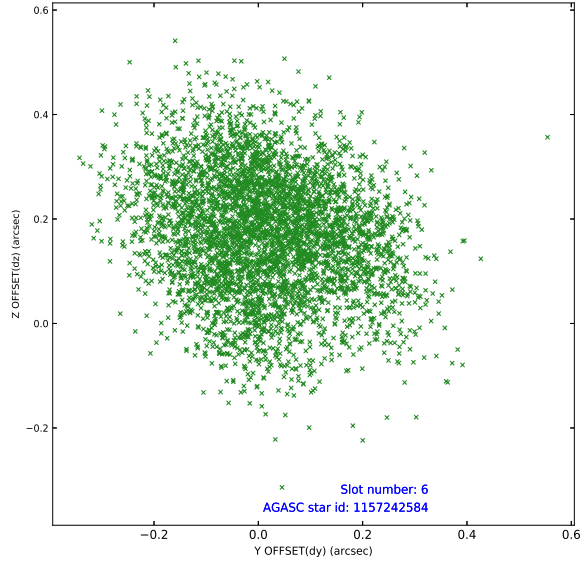
Time (s)



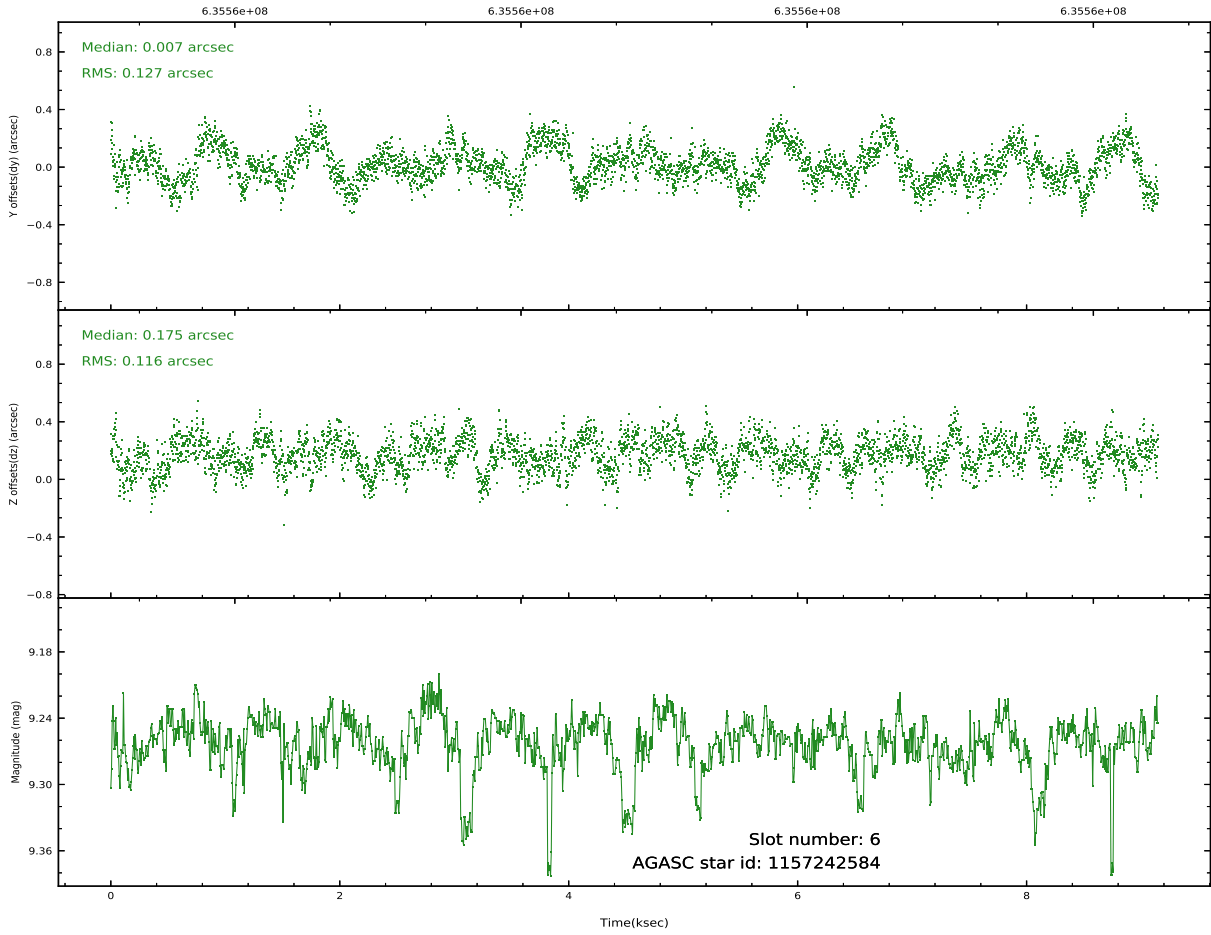
2.4.3 Slot 5



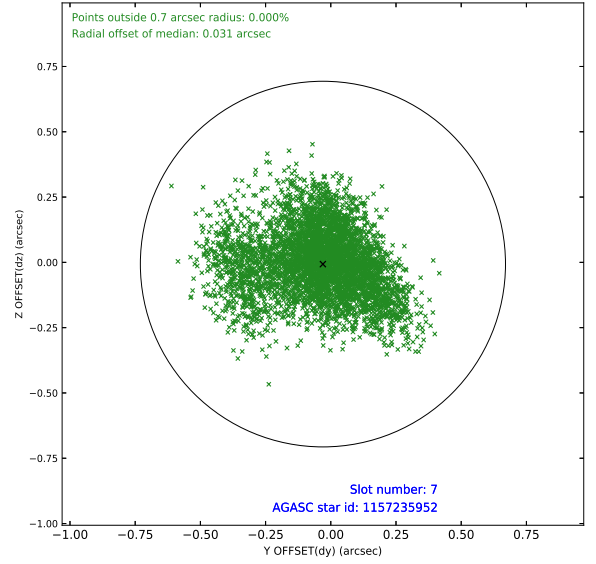
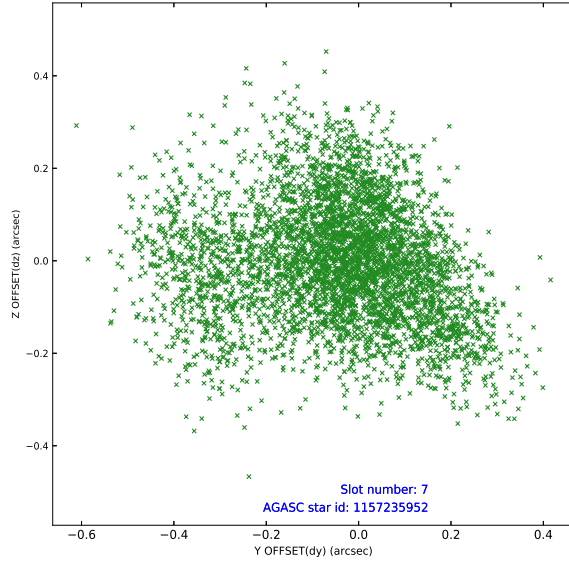
2.4.4 Slot 6



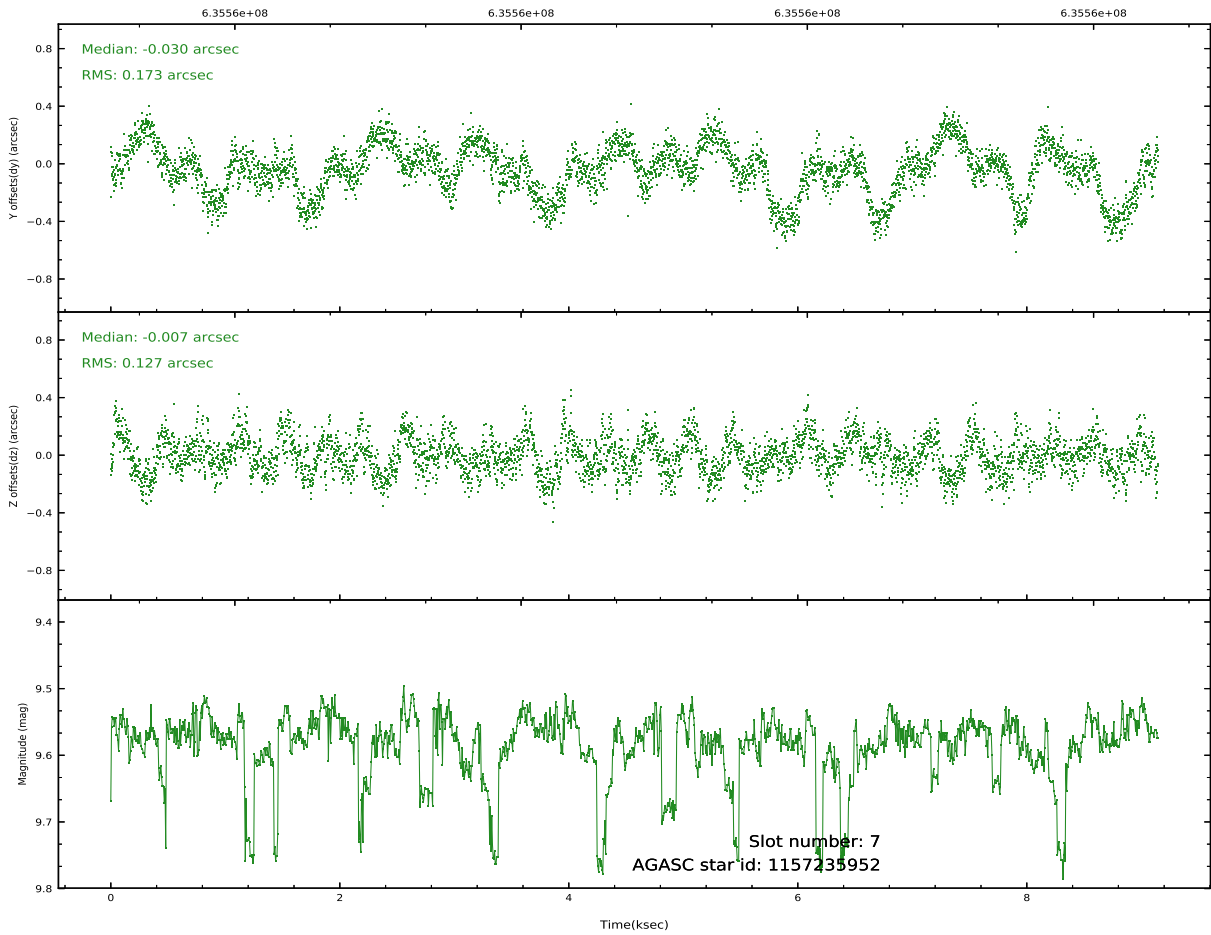
Time (s)



2.4.5 Slot 7

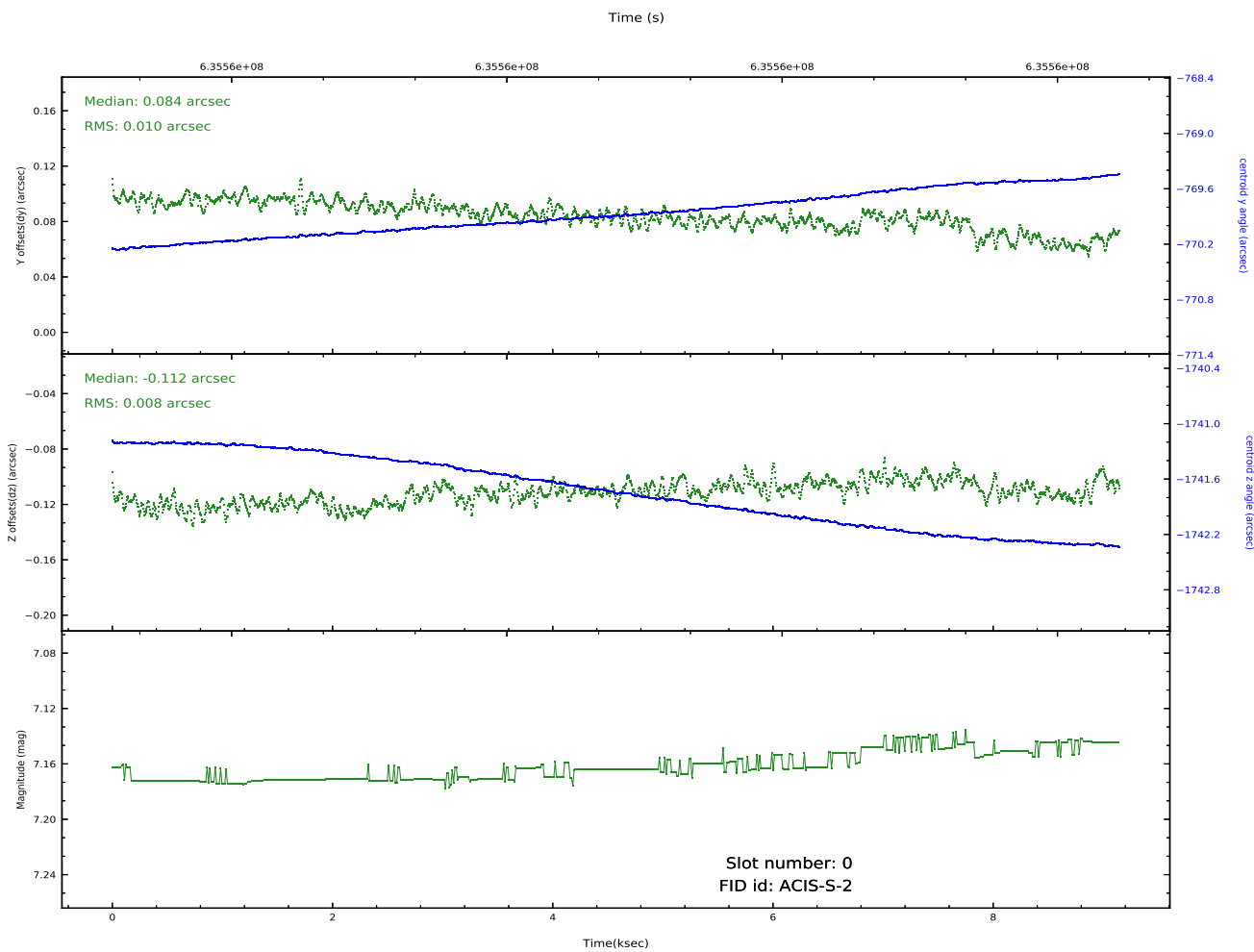
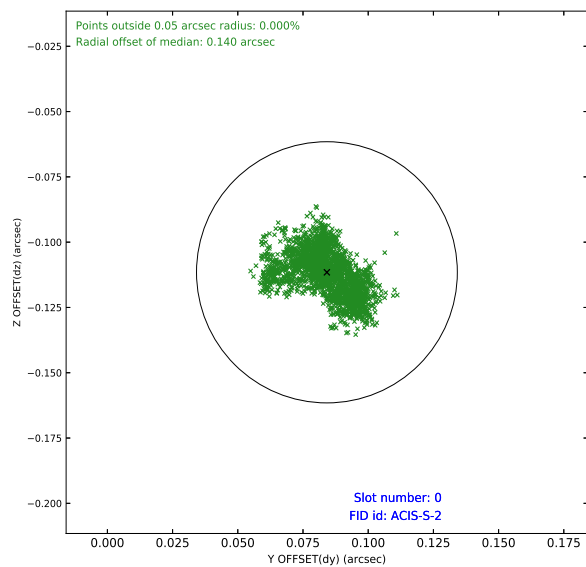
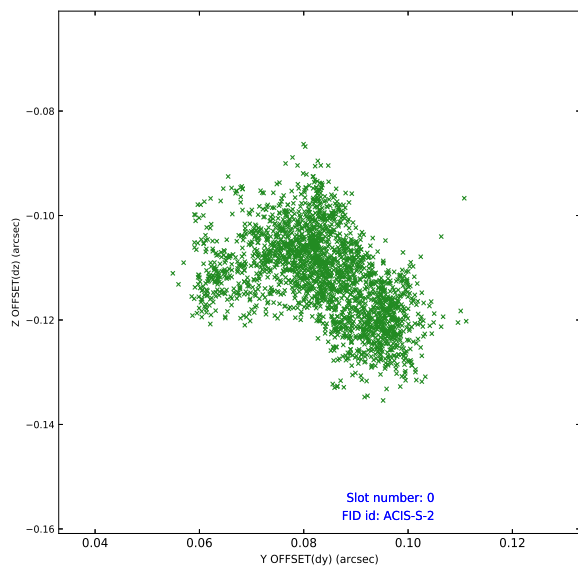


Time (s)

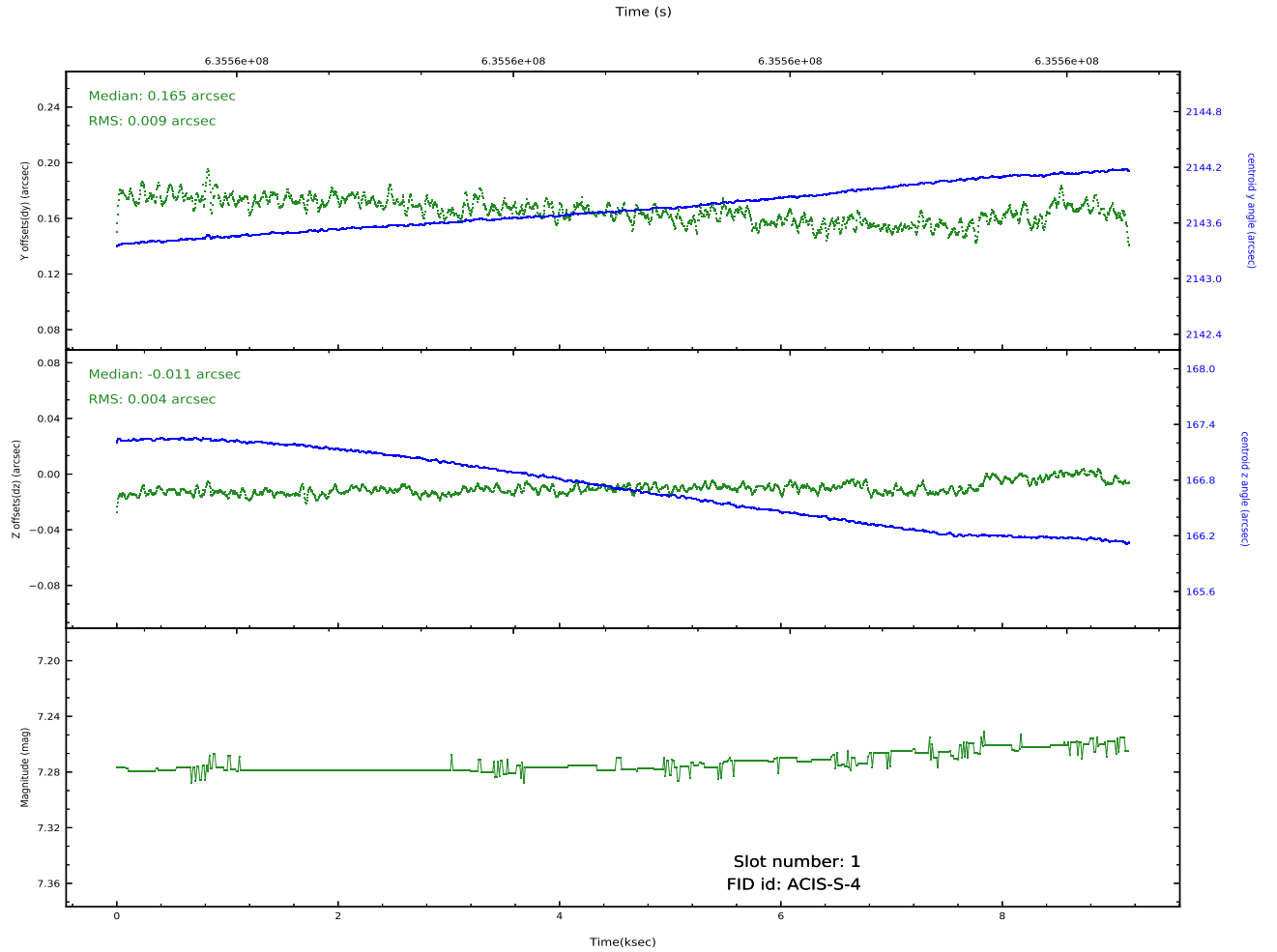
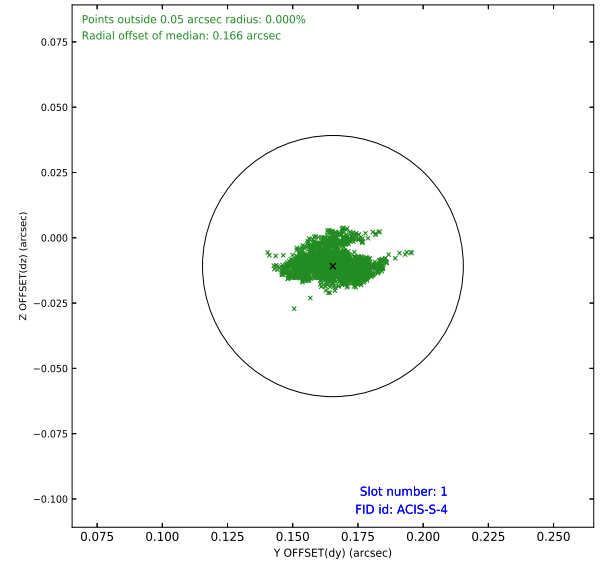
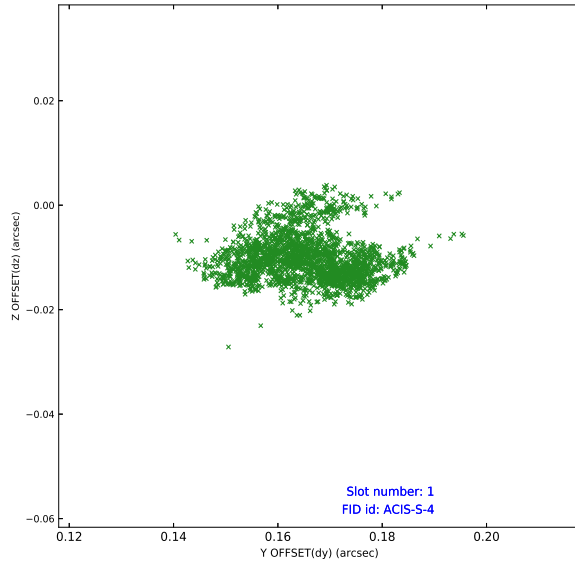


2.5 FID Slots

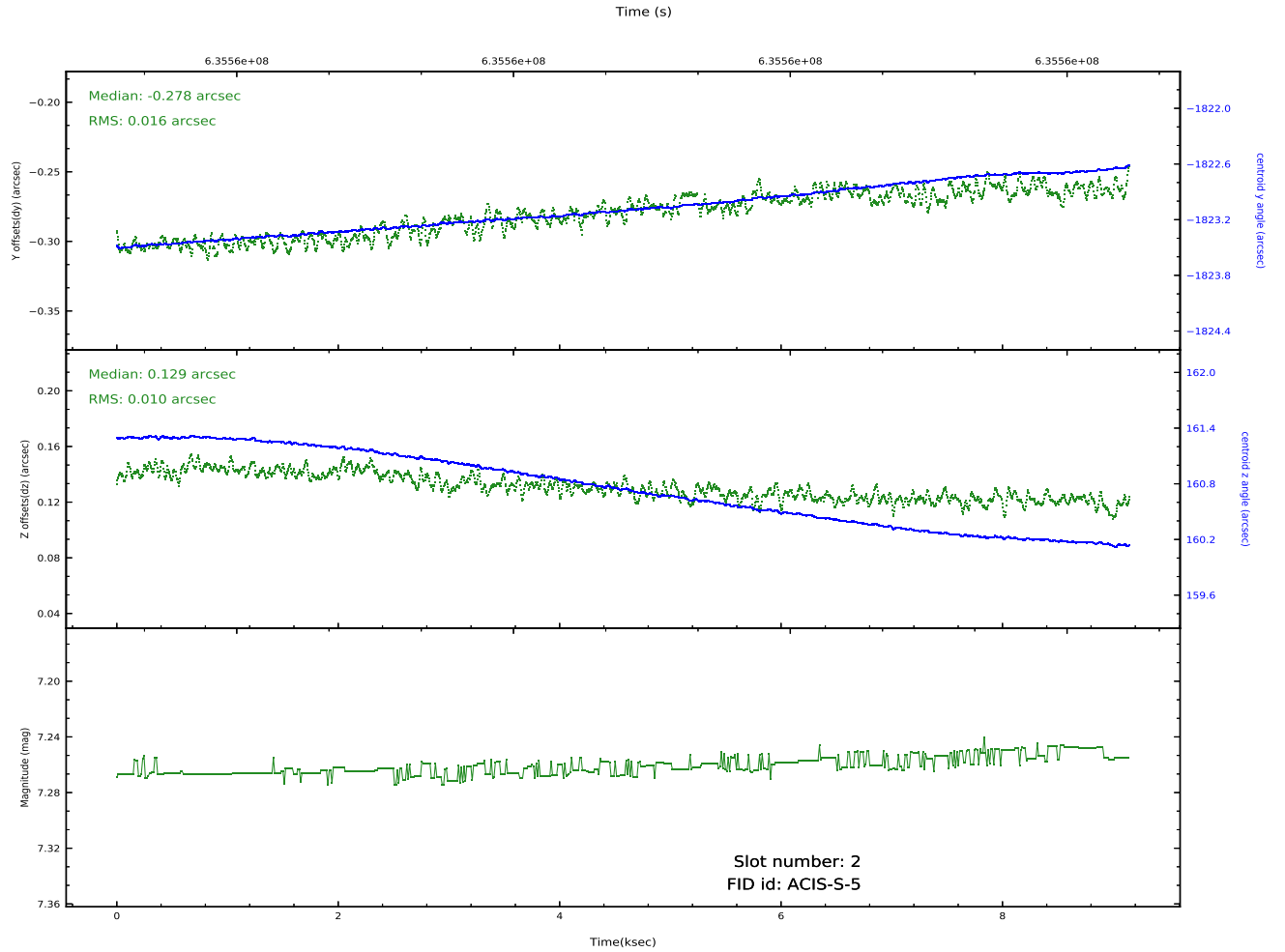
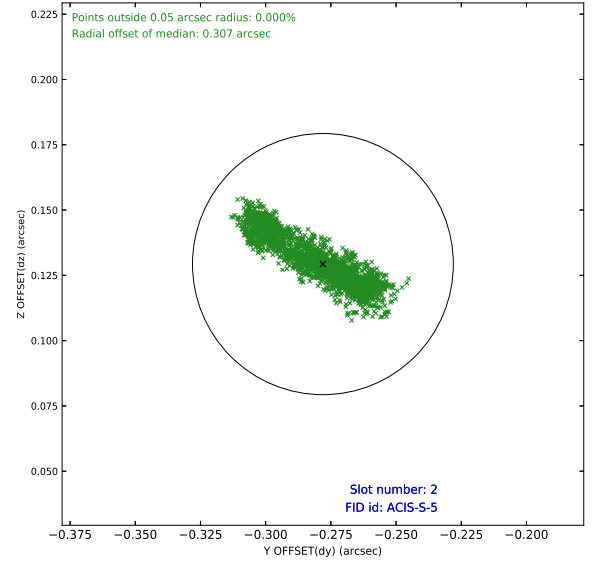
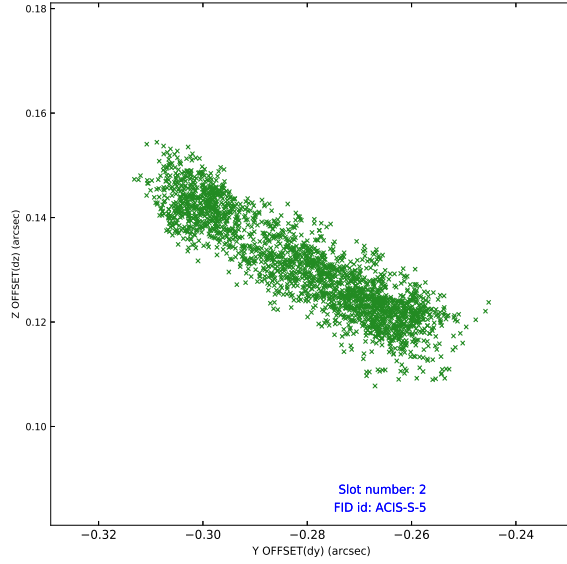
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0427000696659

A.2 Comments