

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21281 - L2 Version 1
Chandra X-Ray Center

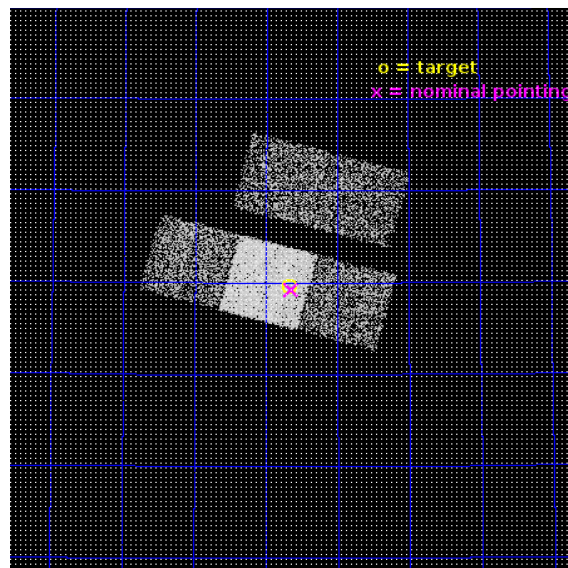
L2 Processing Date : Nov 7 2018

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1 Front

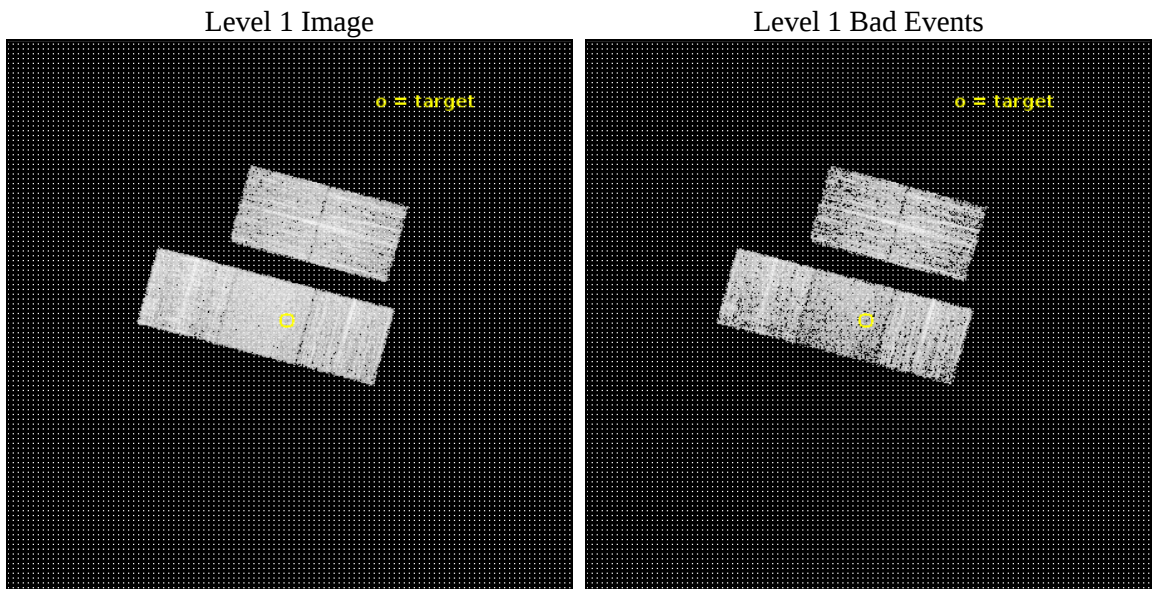
seq_num	503054	Sequence number
obs_id	21281	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J0141+6009	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.41625	Observer's specified target RA [deg]
dec_targ	60.158972	Observer's specified target Dec [deg]
ra_nom	25.41136845271	Nominal RA [deg]
dec_nom	60.153857813607	Nominal Dec [deg]
roll_nom	195.16080438675	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3552.600027442	Sum of GTIs [s]
livetime	3506.1826926974	Livetime [s]
ontime2	3549.4588963985	Sum of GTIs [s]
ontime3	3552.600027442	Sum of GTIs [s]
ontime6	3552.600027442	Sum of GTIs [s]
ontime7	3552.600027442	Sum of GTIs [s]
ontime8	3552.600027442	Sum of GTIs [s]
l2events	25092	Number of level 2 events



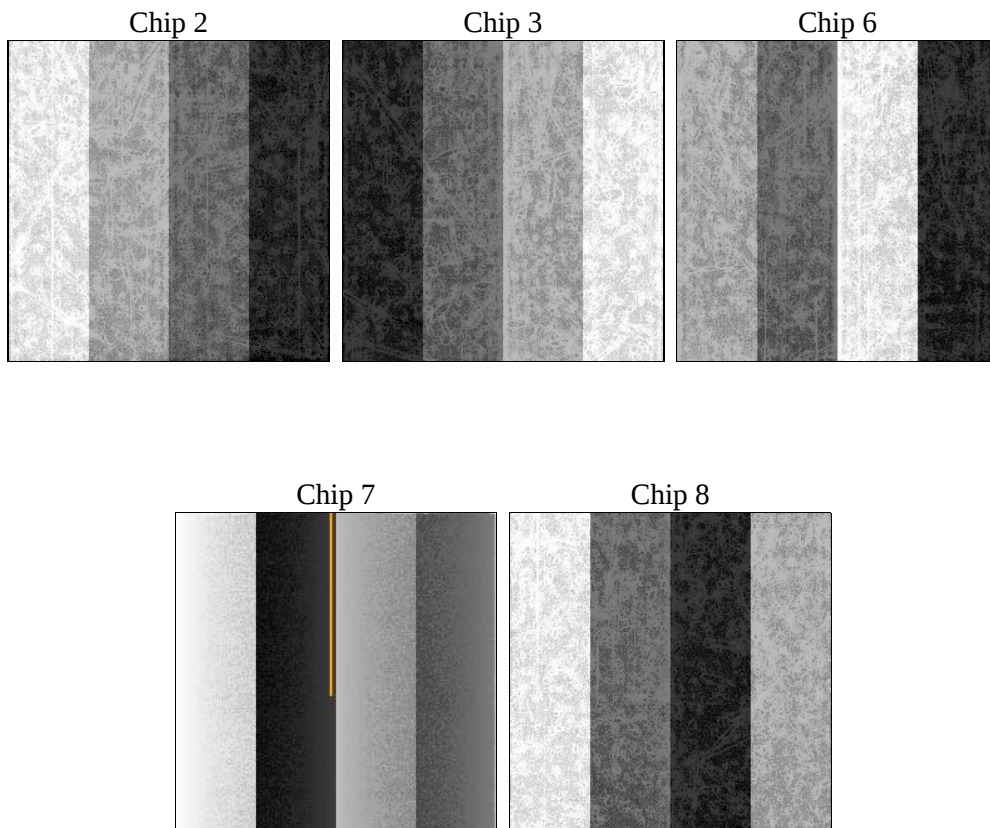
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3552.600027442	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3549.4588963985	Sum of GTIs [s]
date	2018-11-07T18:44:46	Date and time of file creation	ontime3	3552.600027442	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3552.600027442	Sum of GTIs [s]
			ontime7	3552.600027442	Sum of GTIs [s]
			ontime8	3552.600027442	Sum of GTIs [s]
			l1events	157438	Number of level 1 events

2.1.4 Events

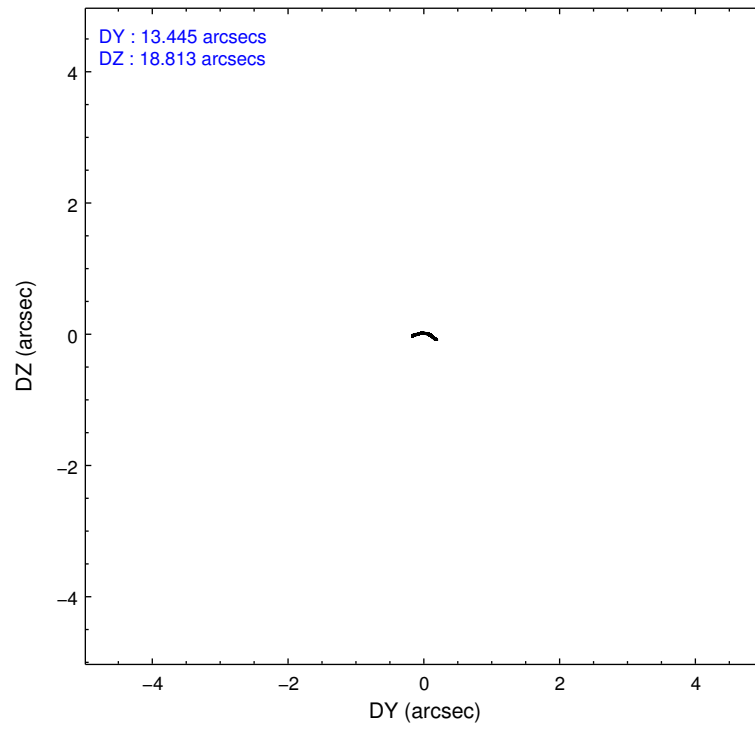
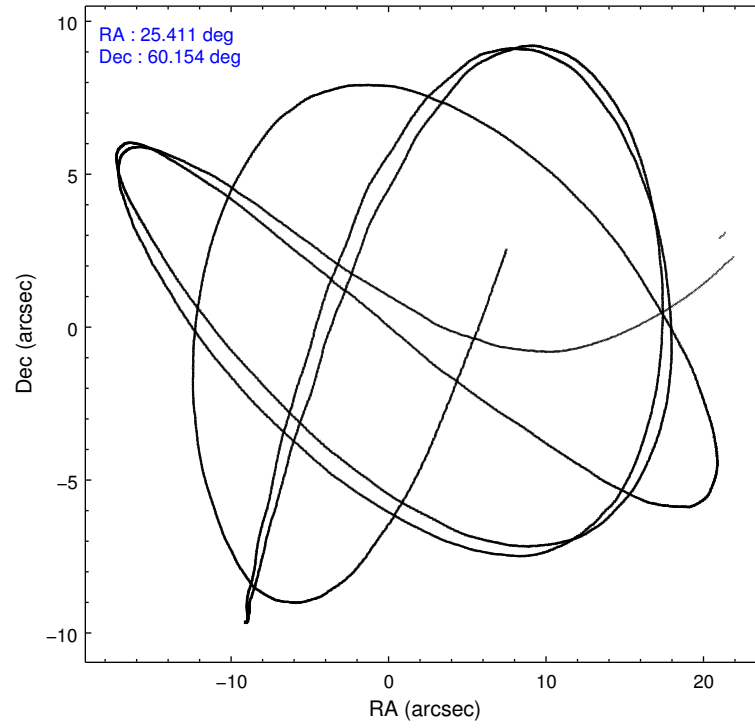
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	28973	26374	29408	35150	37533
rejected events	26248	23605	26251	20227	28507
rejected %	90%	89%	89%	57%	75%

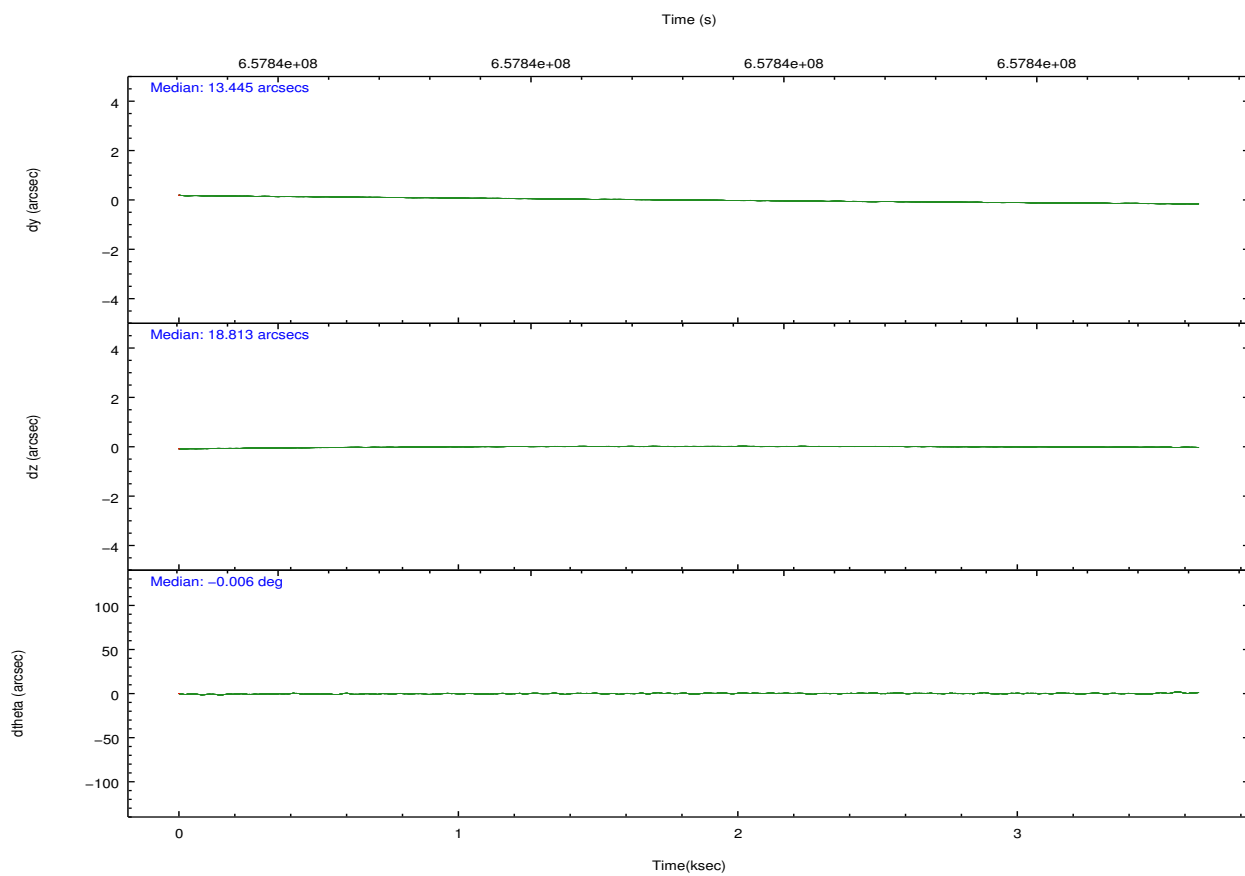
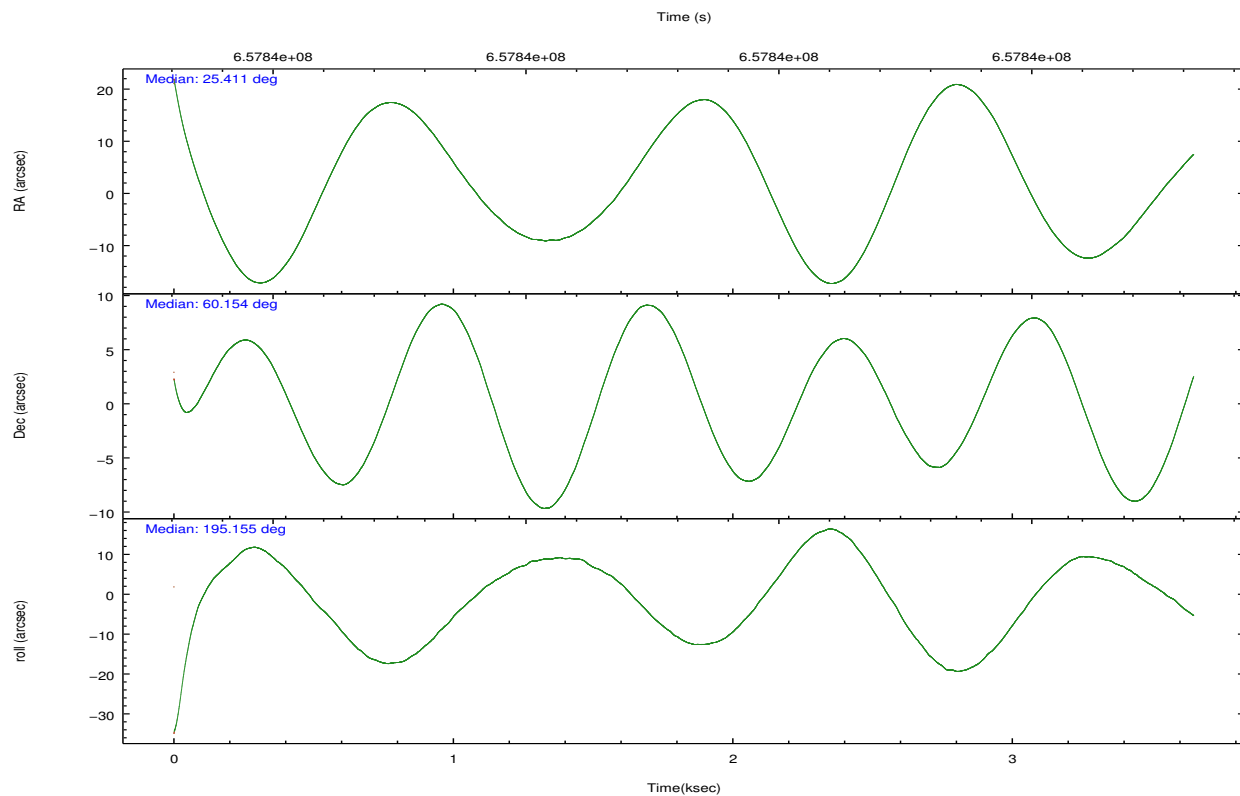
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	977	983	918	1285	2396
	3%	3%	3%	3%	6%
grade 1 events	15	11	8	55	27
	0%	0%	0%	0%	0%
grade 2 events	637	591	876	3115	2184
	2%	2%	2%	8%	5%
grade 3 events	264	301	254	1146	854
	0%	1%	0%	3%	2%
grade 4 events	281	285	254	1215	860
	0%	1%	0%	3%	2%
grade 5 events	998	1193	1144	3389	1799
	3%	4%	3%	9%	4%
grade 6 events	573	611	860	8194	2739
	1%	2%	2%	23%	7%
grade 7 events	25228	22399	25094	16751	26674
	87%	84%	85%	47%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	25.450030	25.4113684527101	CCD I2 on	O1	Y
[deg] Pointing Dec	60.173665	60.15385781360708	CCD I3 on	O2	Y
[deg] Pointing Roll	194.970697	195.1608043867458	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	657836958.184000	657836107.848	CCD S5 on	N	N
Observation start date	2018-11-05T20:28:09	2018-11-05T20:15:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	657840458.184000	657840995.5608	On-chip summing requested	N	N
Observation end date	2018-11-05T21:26:29	2018-11-05T21:36:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



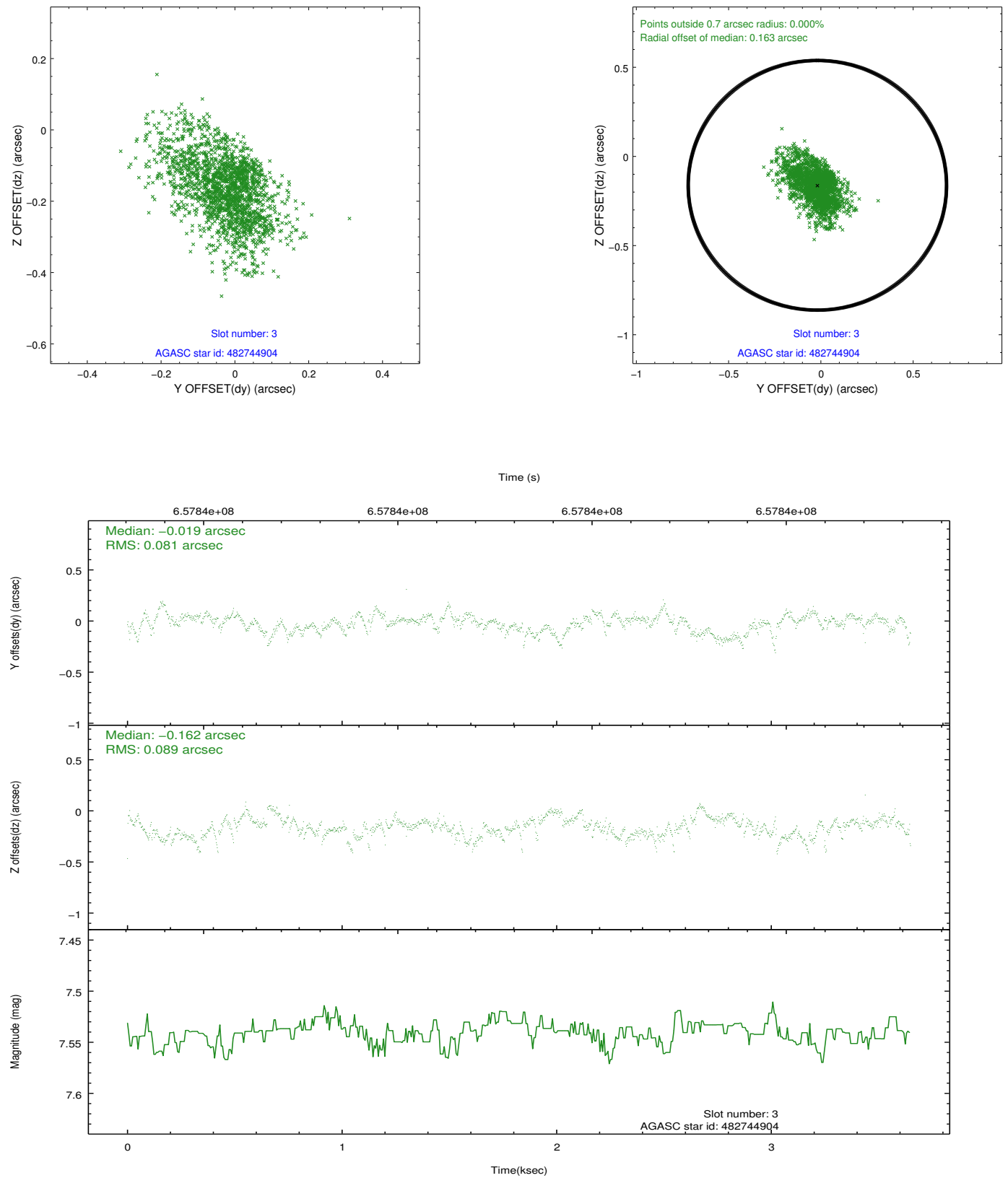


Slot Statistics

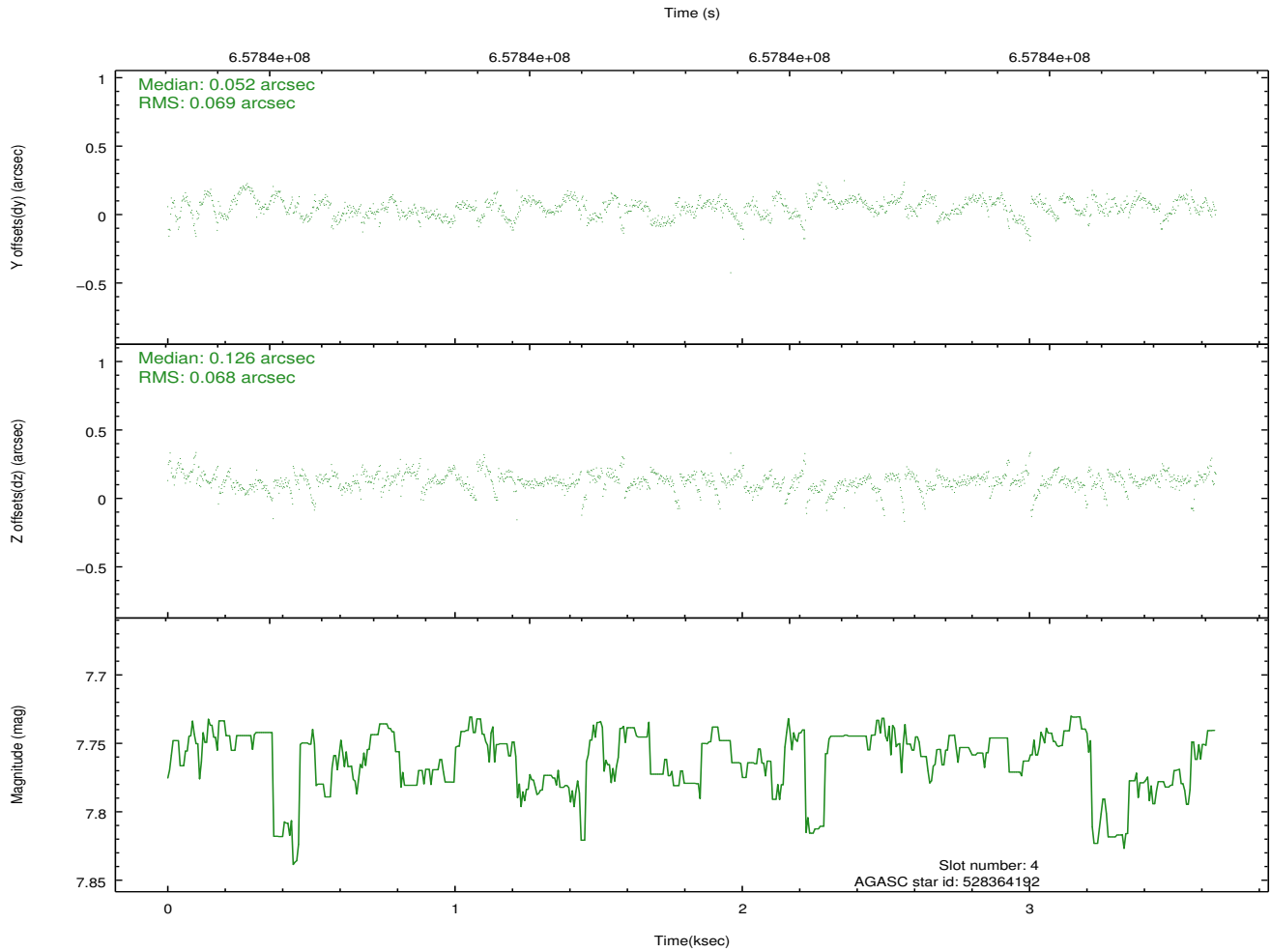
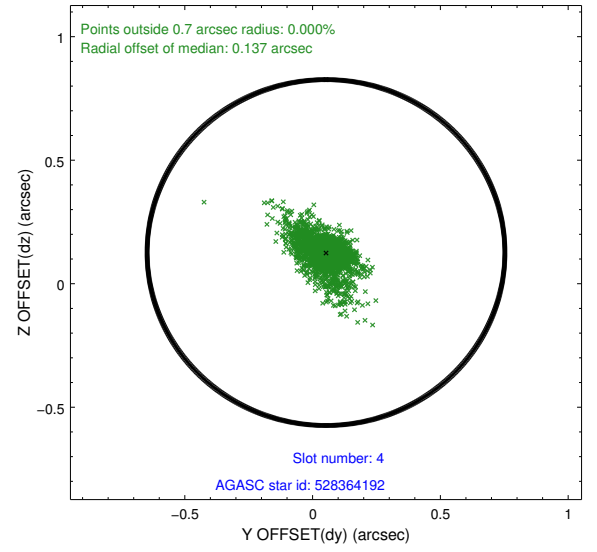
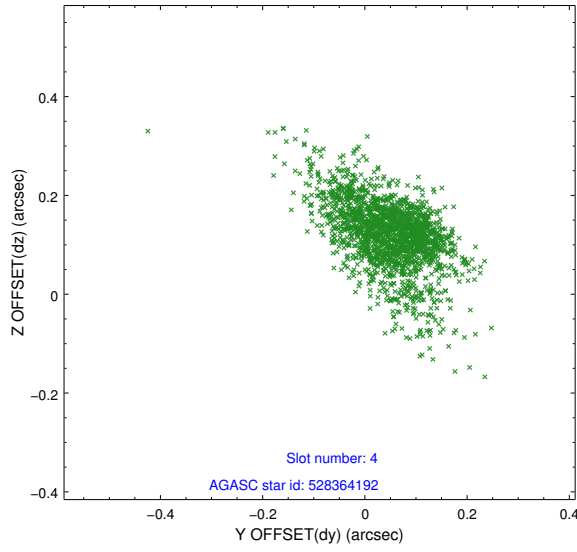
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.06	891	1.000	-0.274	-0.215	0.008	0.013	0.000000	0.000000	-766.58	-1740
1	FID		ACIS-S-4	7.19	891	1.000	0.753	0.190	0.005	0.011	0.000000	0.000000	2146.86	166
2	FID		ACIS-S-5	7.17	890	1.000	-0.511	0.034	0.008	0.014	0.000000	0.000000	-1817.52	162
3	GUIDE	used	482744904	7.54	1780	1.000	-0.019	-0.162	0.126	0.223	26.497582	59.733010	-1431.57	2008
4	GUIDE	used	528364192	7.76	1779	1.000	0.052	0.126	0.094	0.180	24.320032	60.693351	1435.19	-2336
5	GUIDE	used	528495280	8.16	1780	1.000	0.234	0.448	0.110	0.177	25.979430	60.436723	-1153.19	-676
6	GUIDE	used	484462160	8.82	1777	1.000	-0.100	-0.155	0.138	0.231	26.698012	59.664141	-1724.45	2338
7	GUIDE	used	528373280	7.19	1780	1.000	-0.156	-0.251	0.094	0.167	24.021736	60.212796	2422.20	-821

2.4 Star Slots

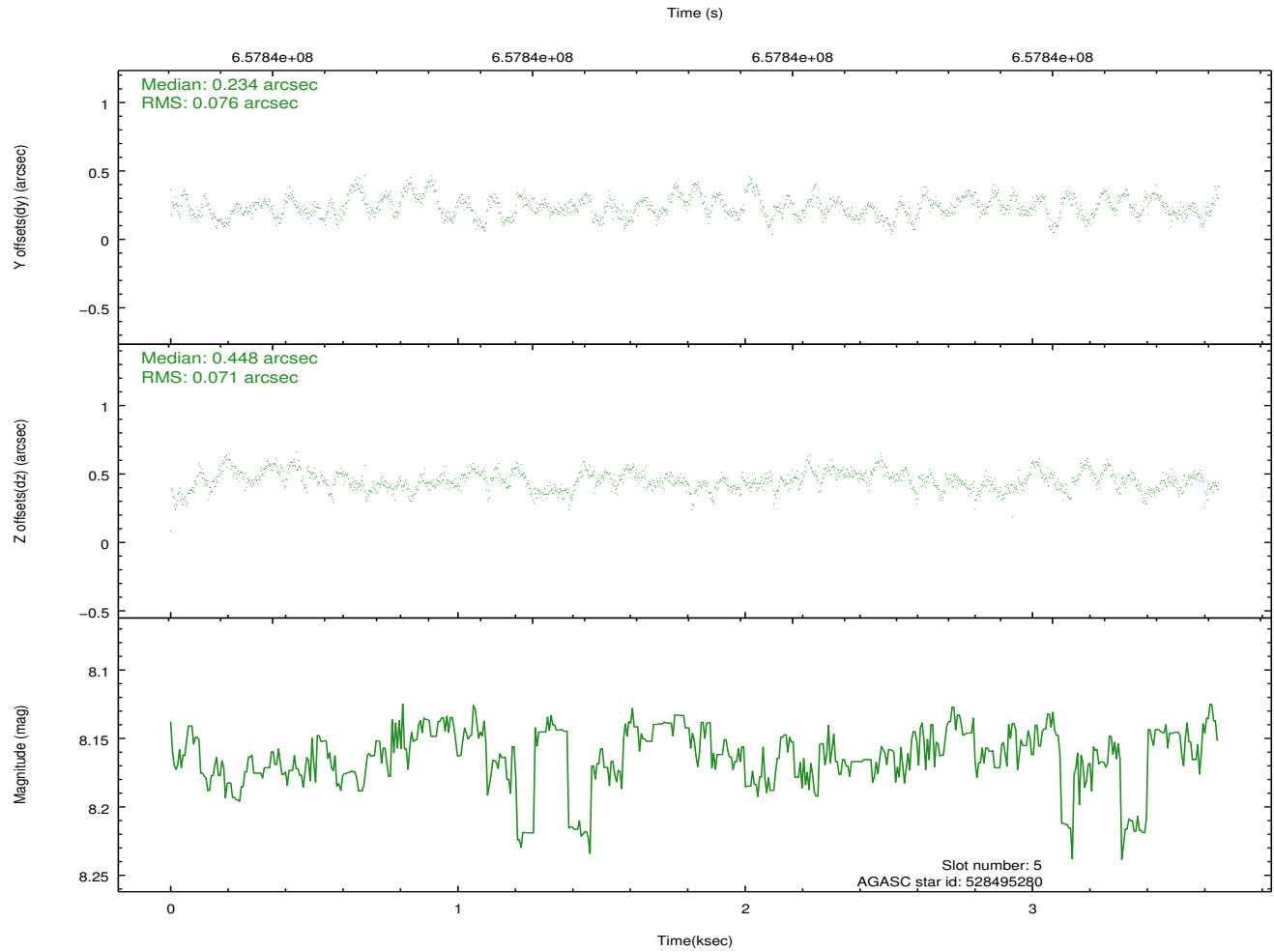
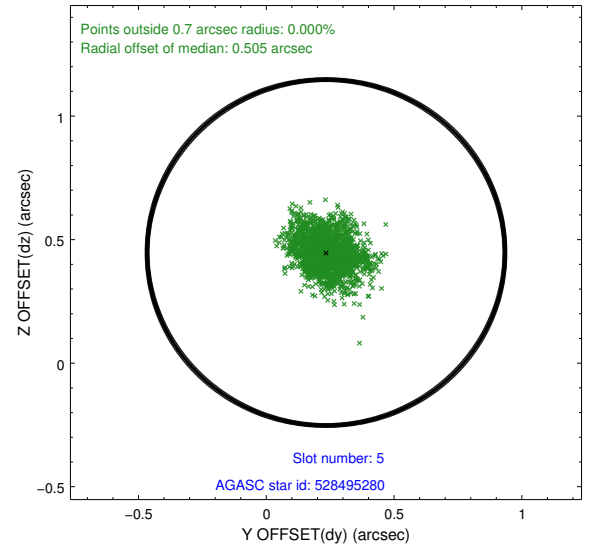
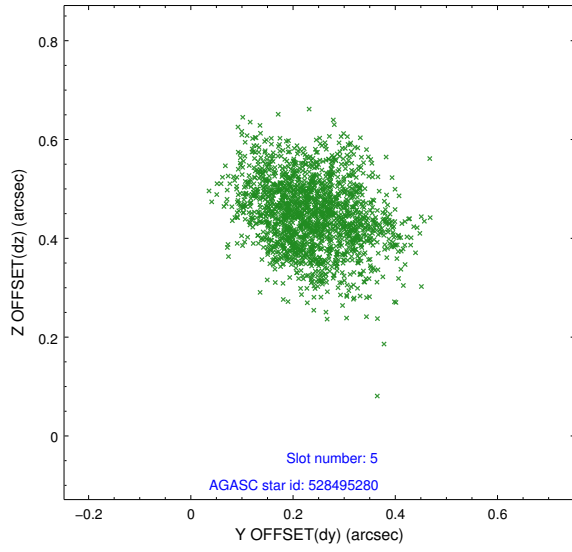
2.4.1 Slot 3



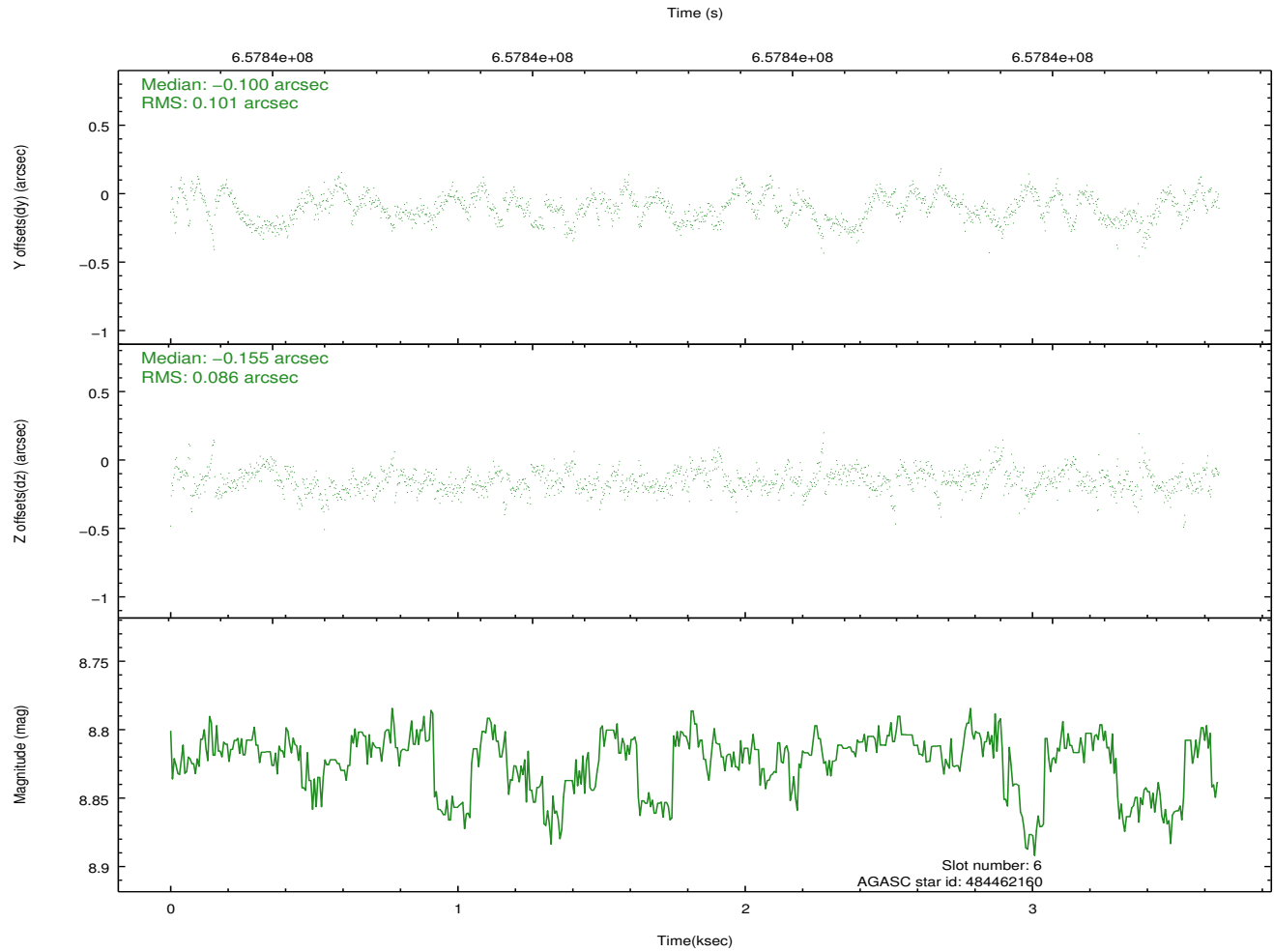
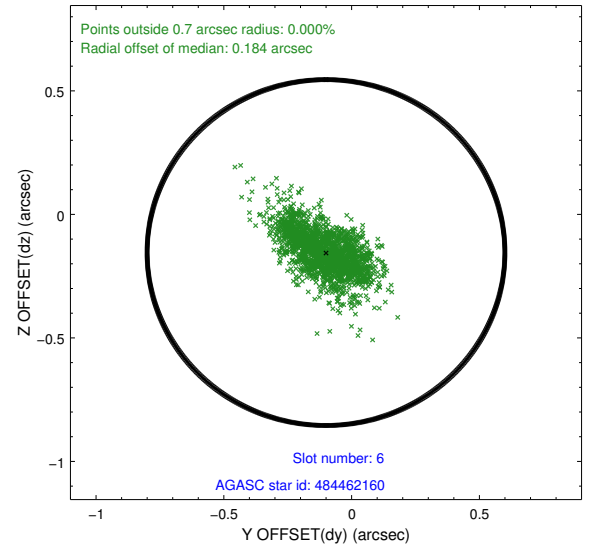
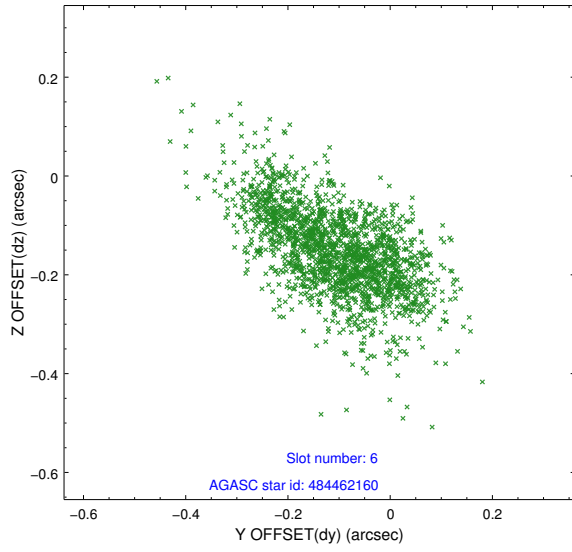
2.4.2 Slot 4



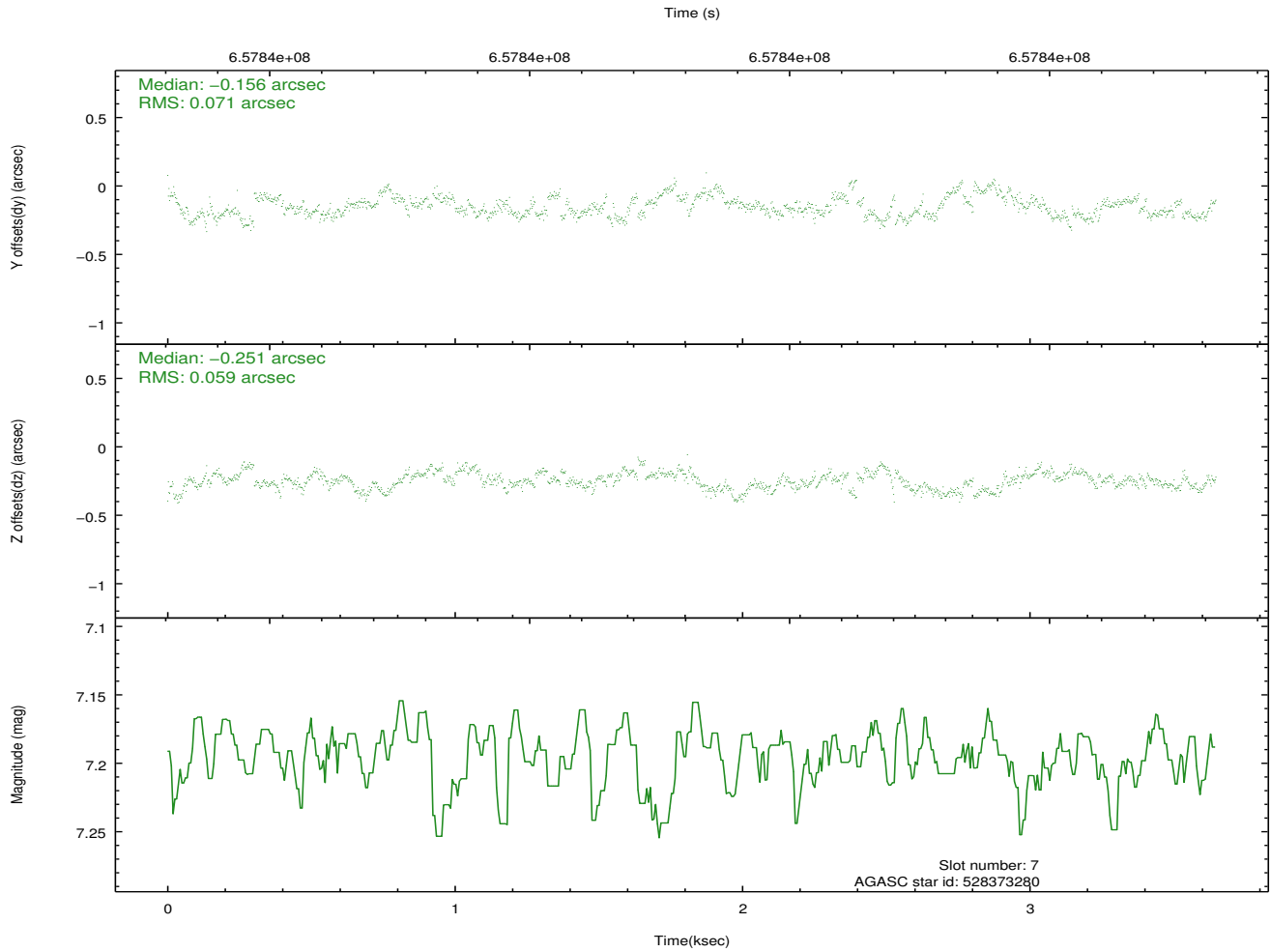
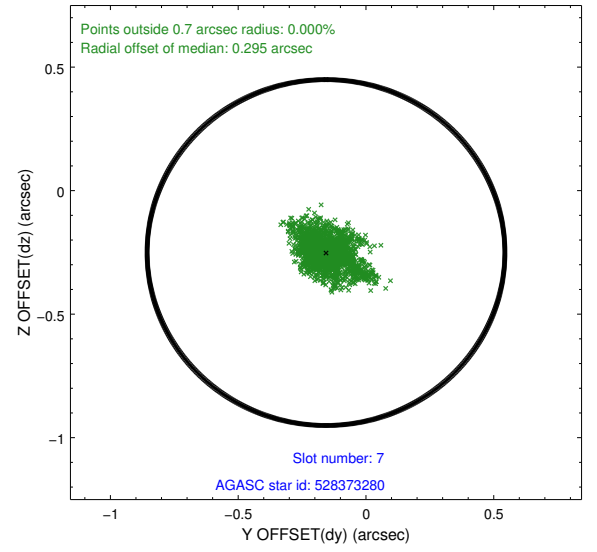
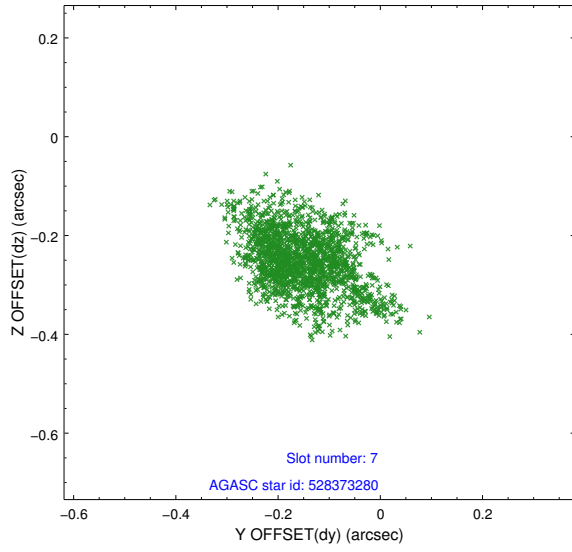
2.4.3 Slot 5



2.4.4 Slot 6

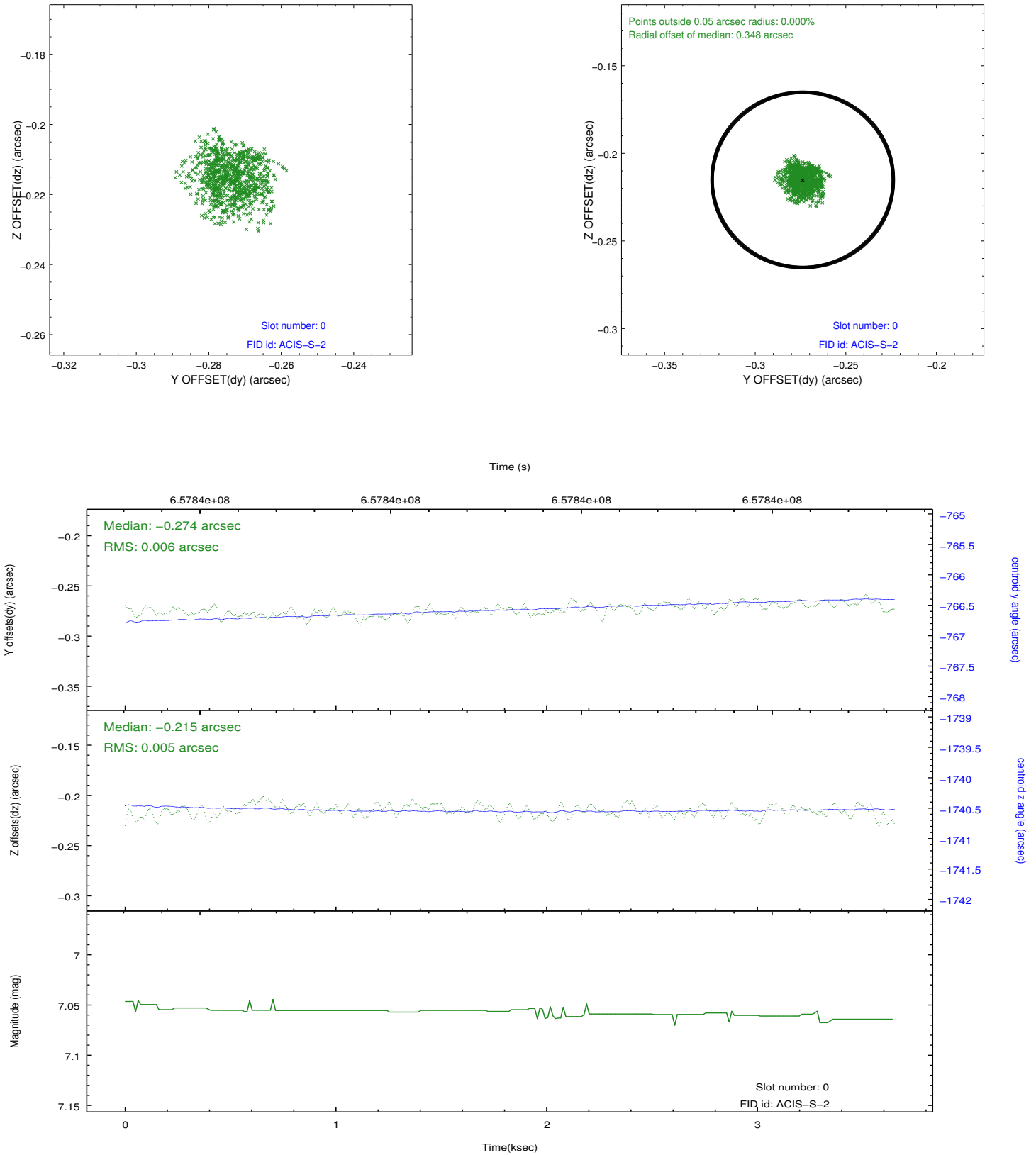


2.4.5 Slot 7

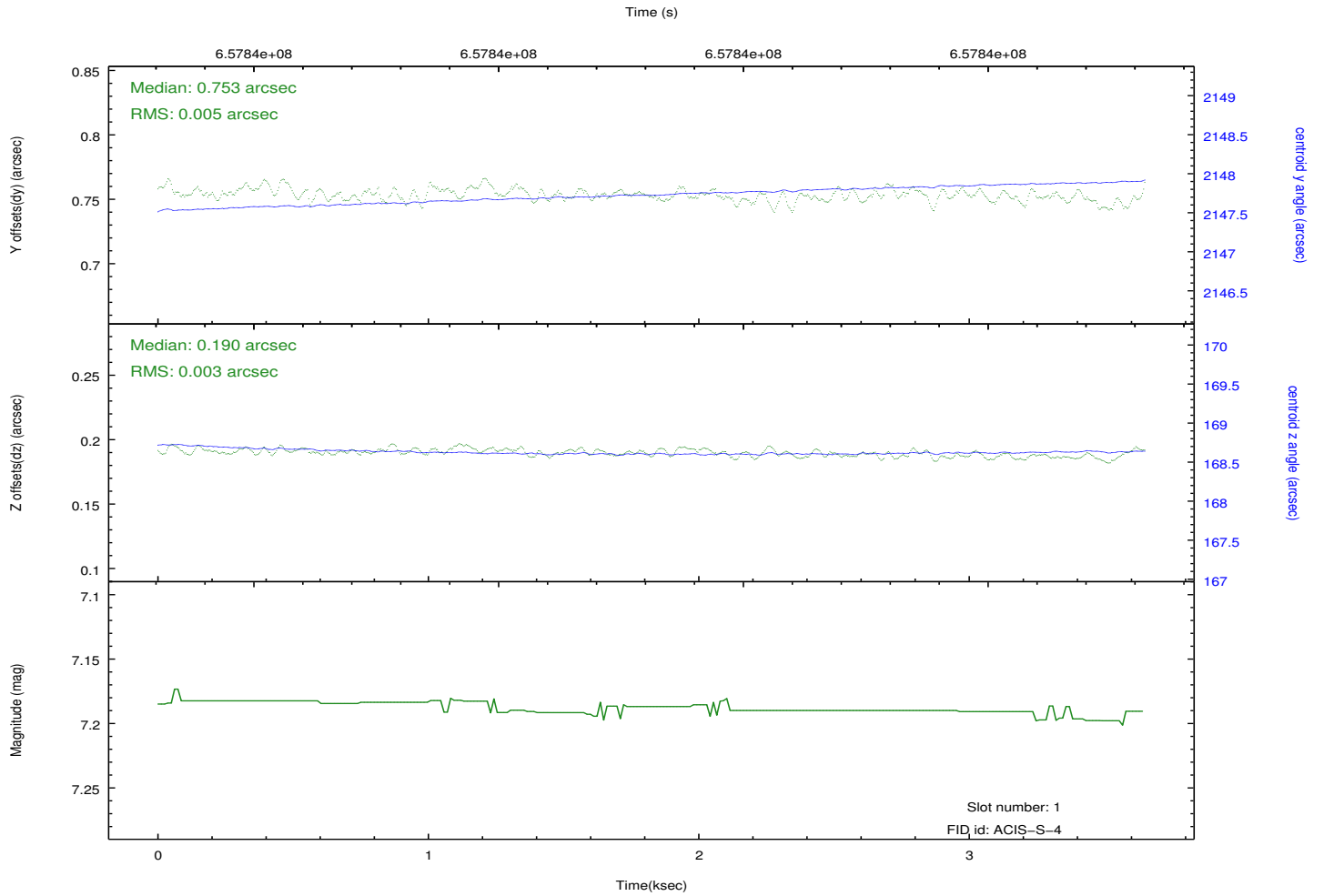
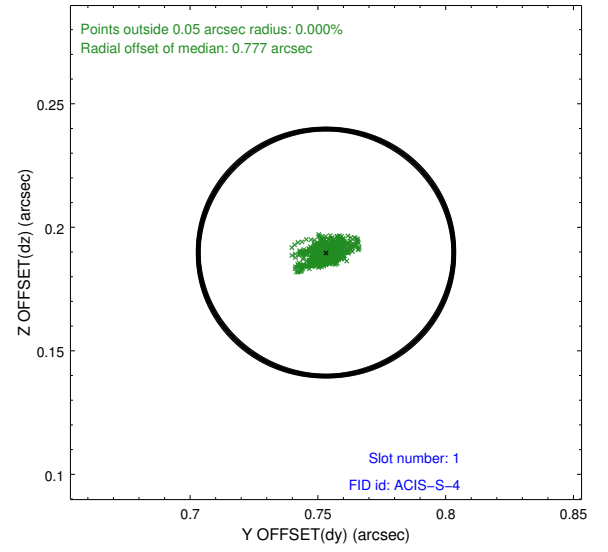
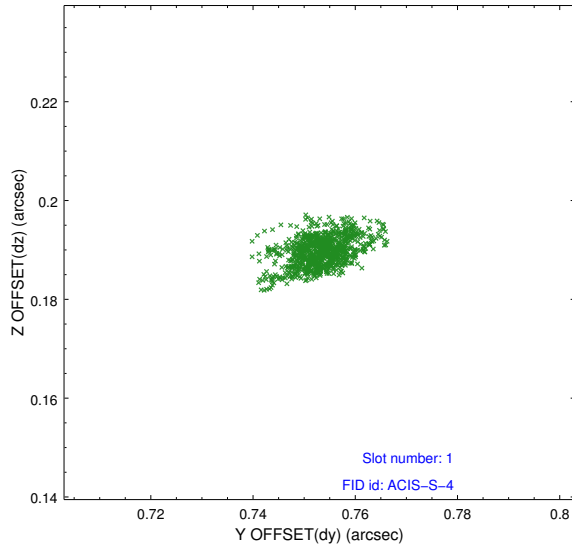


2.5 FID Slots

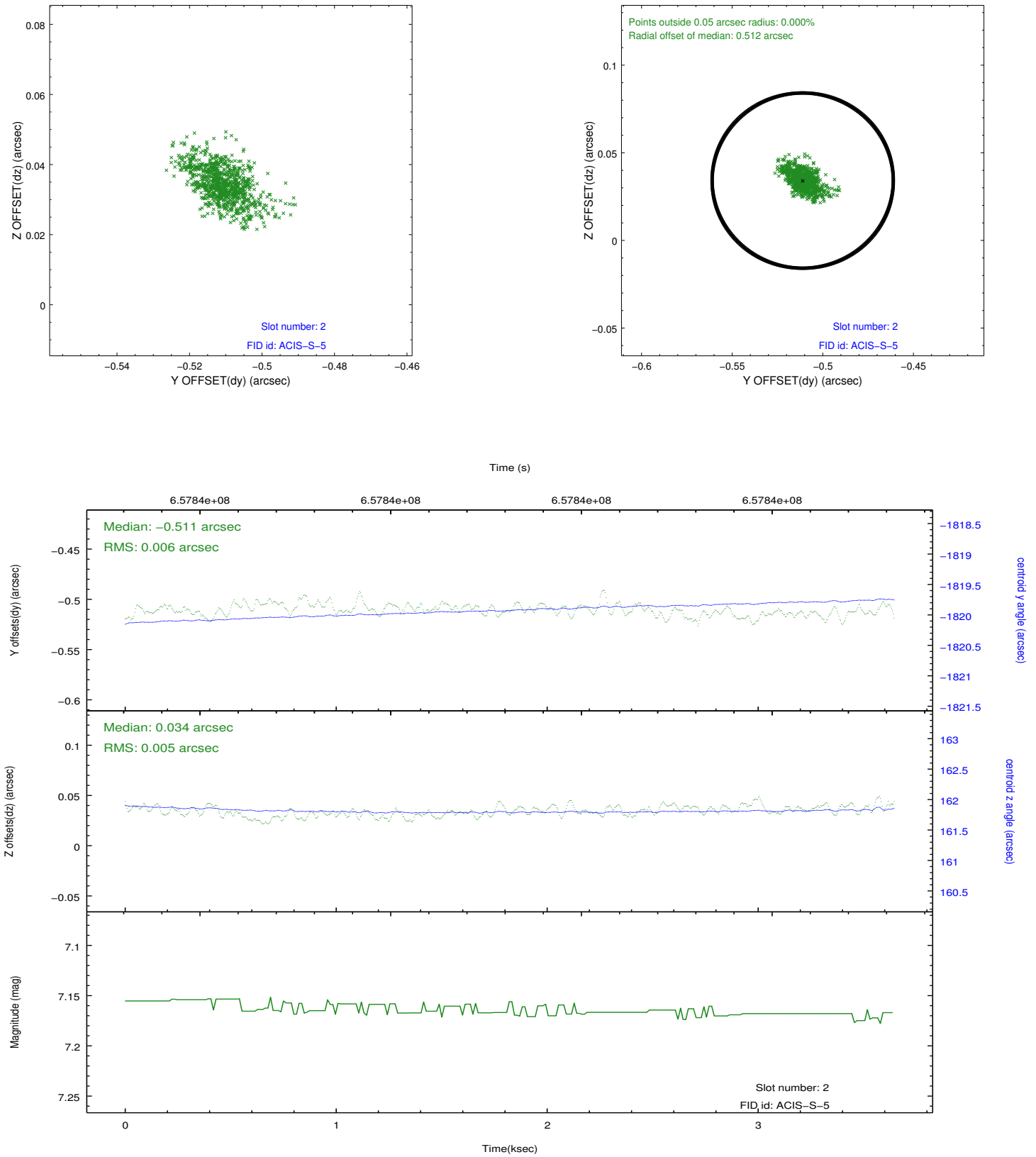
2.5.1 Slot 0



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)	2018.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.552600027442

A.2 Comments