

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16023 - L2 Version 1
Chandra X-Ray Center

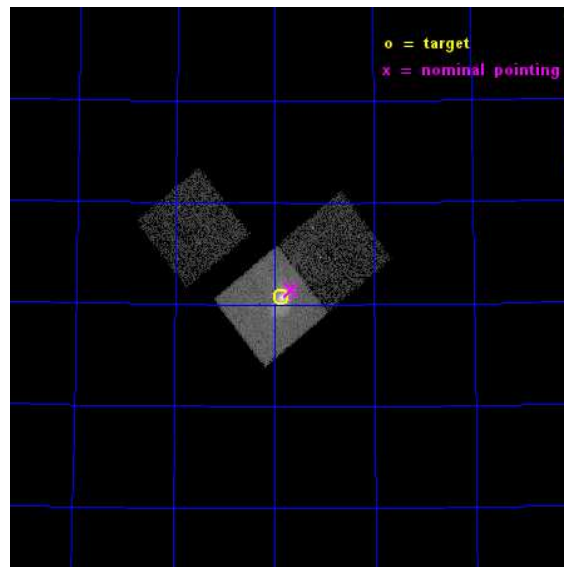
L2 Processing Date : Jan 21 2015

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1 Front

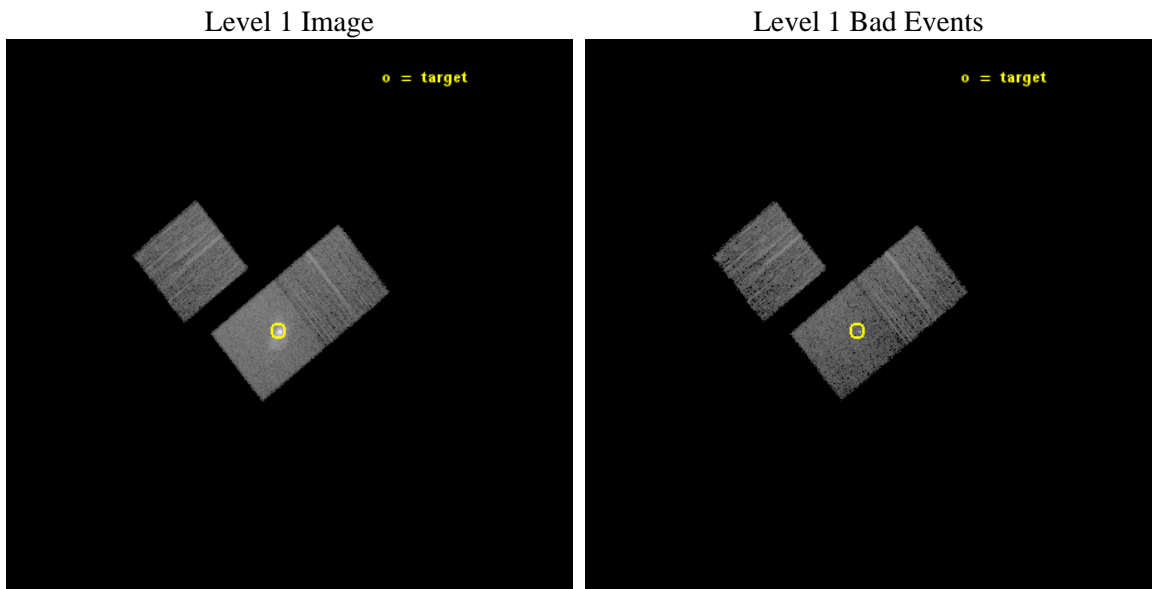
seq_num	601111	Sequence number
obs_id	16023	Observation id
title	0.5-30 KEV IMAGING OF STARBURSTS WITH CHANDRA AND NUSTAR	Proposal
observer	Dr. Ann Hornschemeier	Principal investigator
object	M82	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.9675	Observer's specified target RA [deg]
dec_targ	69.680194	Observer's specified target Dec [deg]
ra_nom	148.91600218643	Nominal RA [deg]
dec_nom	69.691298365022	Nominal Dec [deg]
roll_nom	141.20492897247	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10118.400077939	Sum of GTIs [s]
livetime	9986.195731863	Livetime [s]
ontime3	10118.400077939	Sum of GTIs [s]
ontime6	10118.400077939	Sum of GTIs [s]
ontime7	10118.400077939	Sum of GTIs [s]
l2events	70107	Number of level 2 events



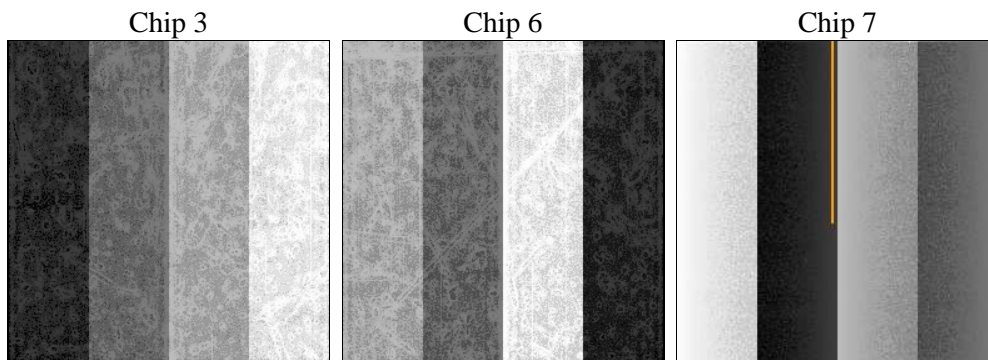
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	10118.400077939	Sum of GTIs [s]
caldbver	4.6.6	 	ontime3	10118.400077939	Sum of GTIs [s]
date	2015-01-21T20:38:40	Date and time of file creation	ontime6	10118.400077939	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10118.400077939	Sum of GTIs [s]
			l1events	202452	Number of level 1 events

2.1.4 Events

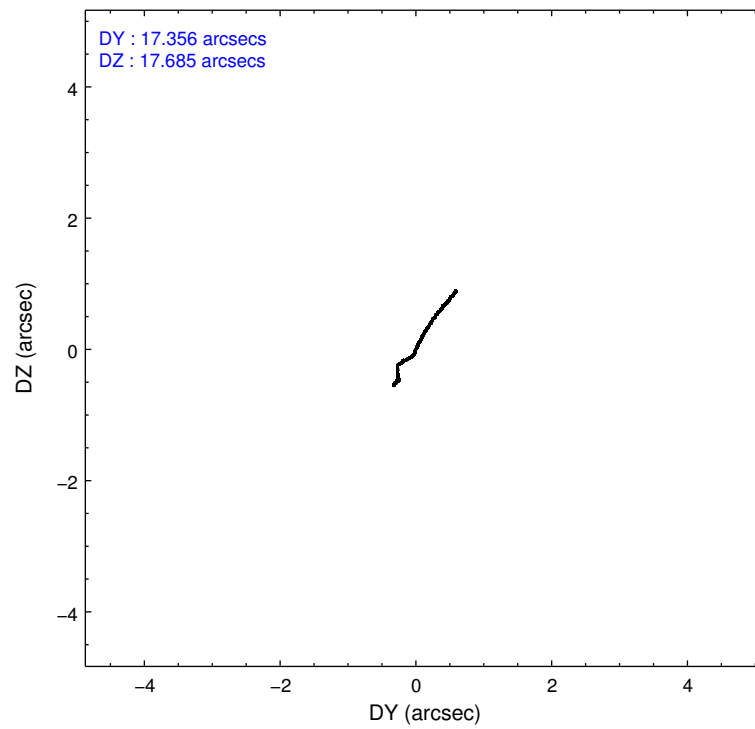
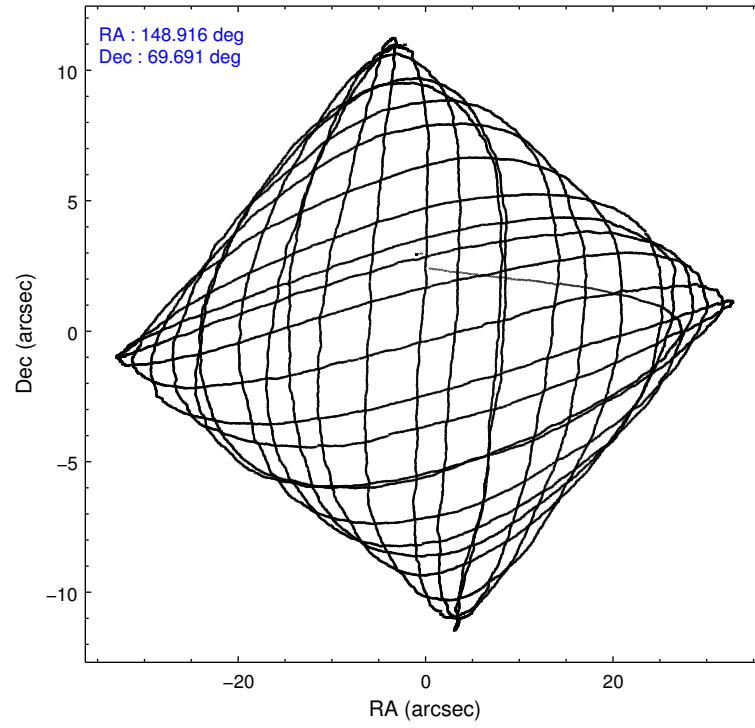
	ccd 3	ccd 6	ccd 7
level 1 events	51229	52438	98785
rejected events	45606	45532	39151
rejected %	89%	86%	39%

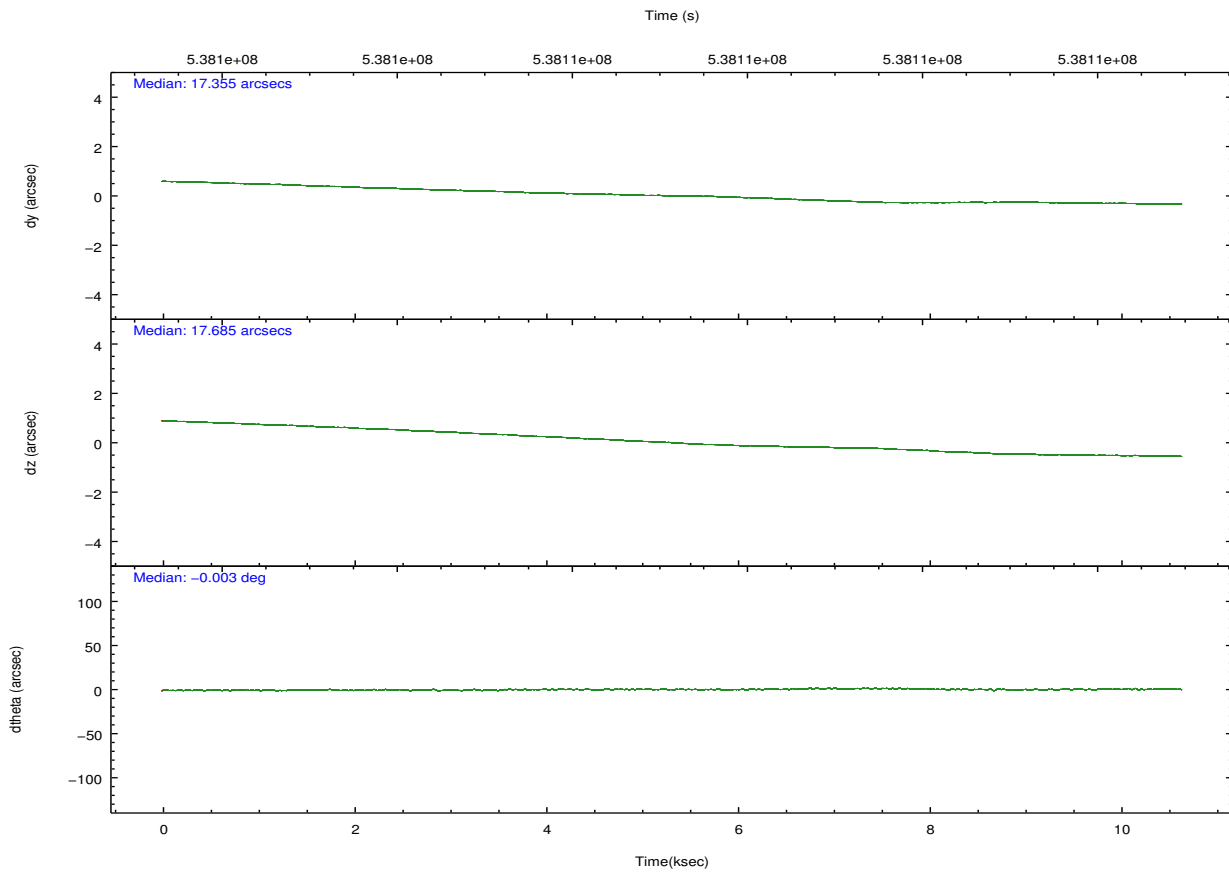
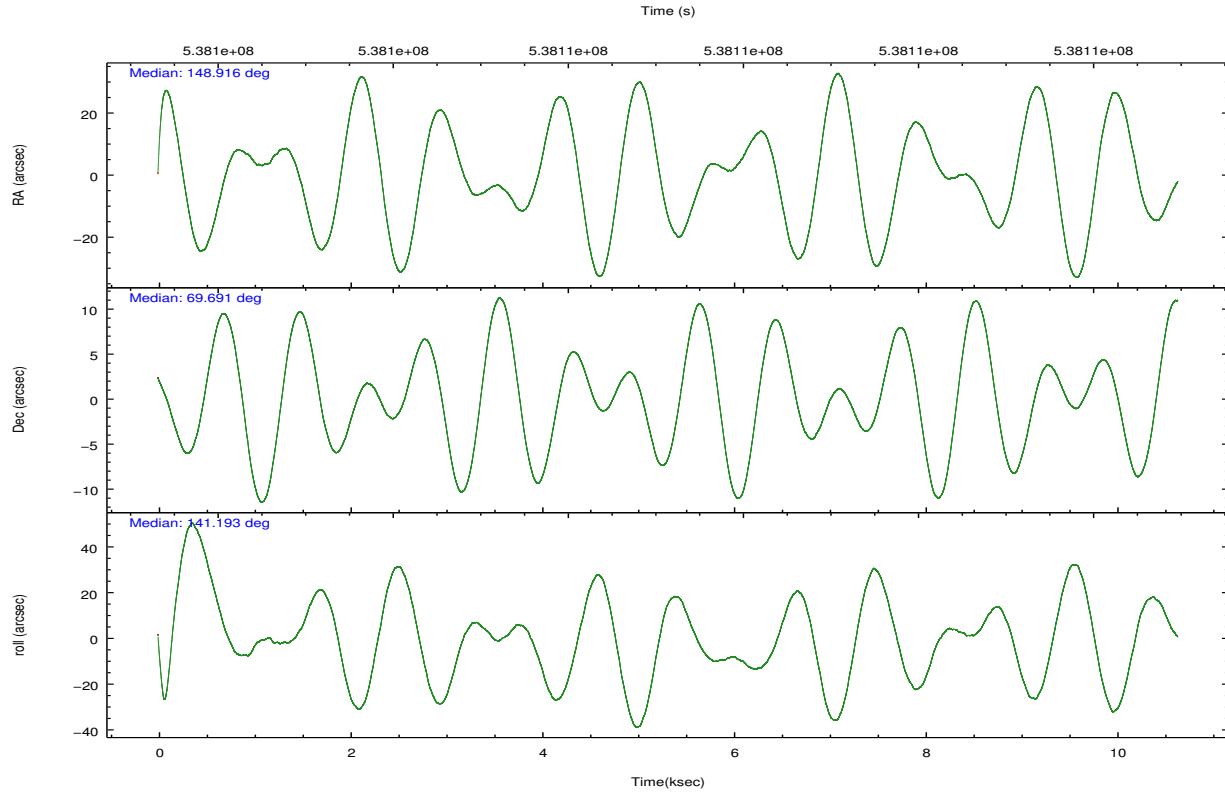
	ccd 3	ccd 6	ccd 7
grade 0 events	1971	2679	11282
	3%	5%	11%
grade 1 events	32	25	129
	0%	0%	0%
grade 2 events	1278	1449	13984
	2%	2%	14%
grade 3 events	607	624	5976
	1%	1%	6%
grade 4 events	588	668	5833
	1%	1%	5%
grade 5 events	2567	2624	7361
	5%	5%	7%
grade 6 events	1182	1488	22575
	2%	2%	22%
grade 7 events	43004	42881	31645
	83%	81%	32%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-367	ACIS-367	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	148.994323	148.916002186427	CCD I2 on	N	N
[deg] Pointing Dec	69.687455	69.69129836502159	CCD I3 on	O2	Y
[deg] Pointing Roll	140.974843	141.2049289724681	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	O1	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	N	N
[s] Observation start time (MET)	538102447.184000	538100843.5186599	CCD S5 on	N	N
Observation start date	2015-01-20T00:53:00	2015-01-20T00:27:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	538112447.184000	538113525.33187	On-chip summing requested	N	N
Observation end date	2015-01-20T03:39:40	2015-01-20T03:58:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





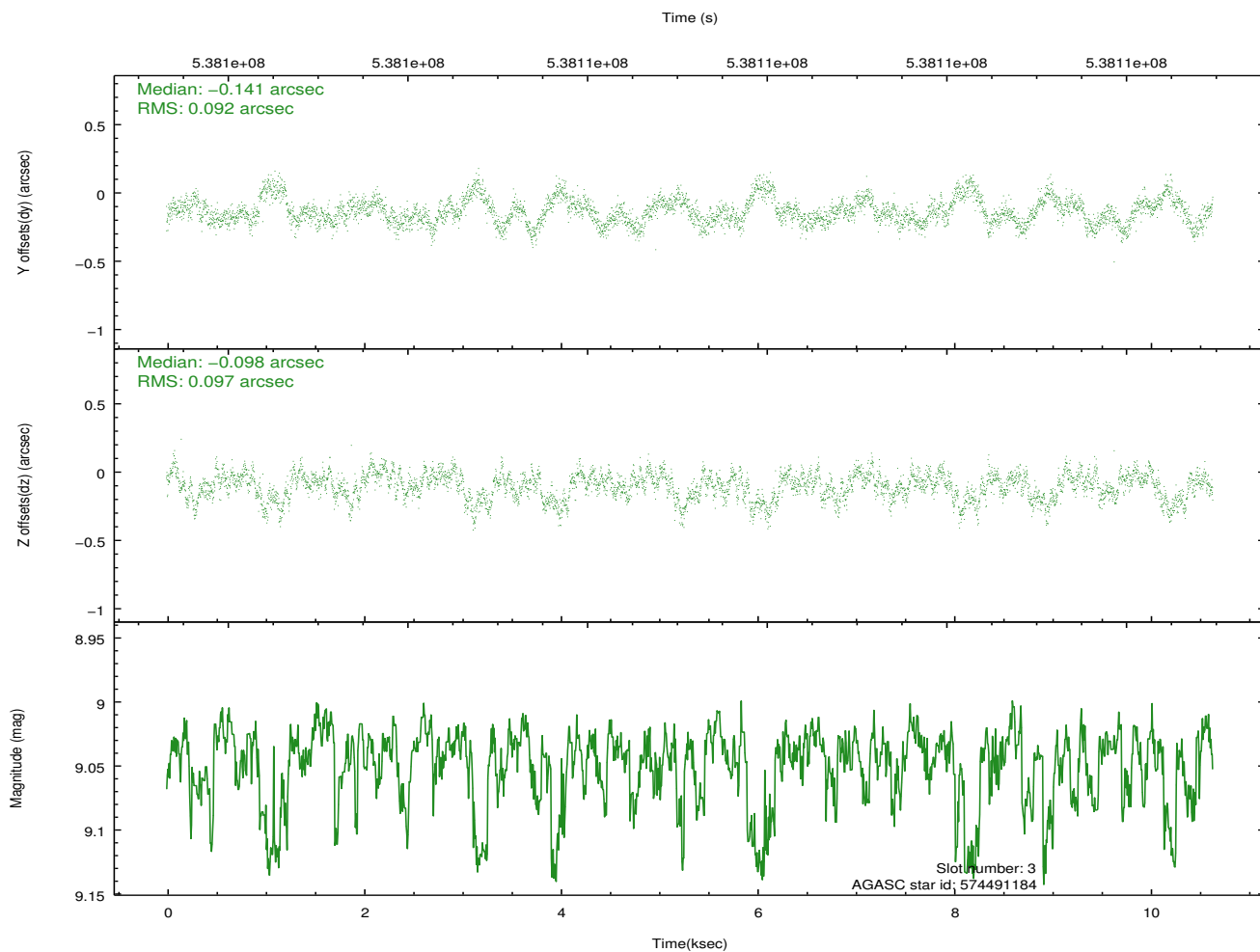
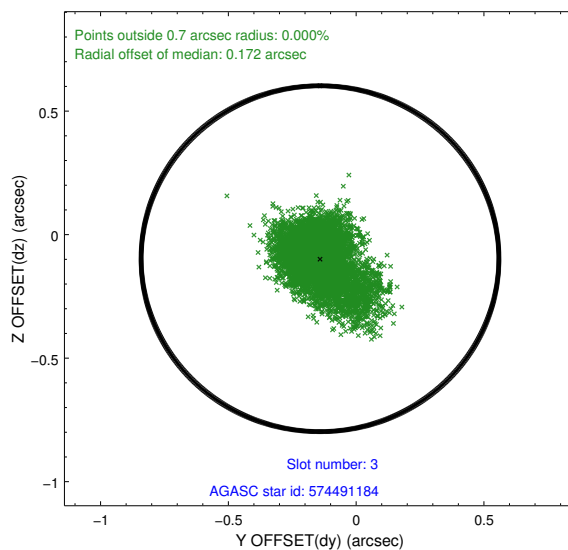
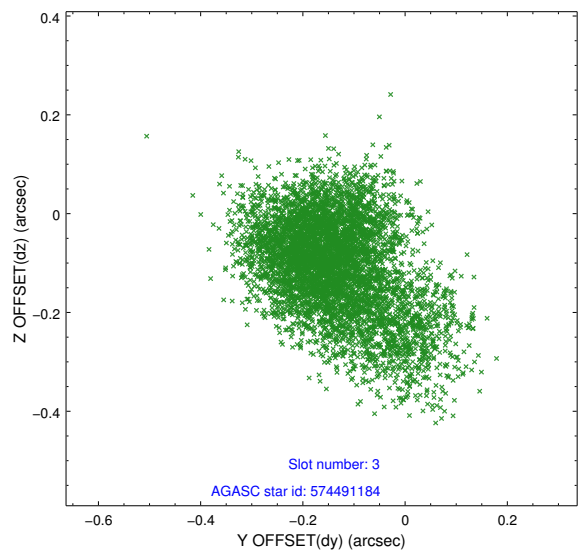
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	2596	-0.089	-0.073	0.012	0.019	0.000000	0.000000	-770.53	-1739.28
1	FID		ACIS-S-4	7.00	2596	0.321	0.062	0.010	0.026	0.000000	0.000000	2142.95	168.80
2	FID		ACIS-S-5	7.02	2596	-0.264	0.019	0.012	0.020	0.000000	0.000000	-1822.90	163.02
3	GUIDE	used	574491184	9.04	5189	-0.141	-0.098	0.137	0.243	148.582453	69.768699	583.53	93.99
4	GUIDE	used	574491280	9.33	5187	0.234	0.098	0.131	0.206	148.611567	69.450135	-160.52	969.20
5	GUIDE	used	574491872	9.20	5189	-0.178	-0.181	0.166	0.252	147.207613	69.765453	1922.31	1161.43
6	GUIDE	used	574886496	8.49	5188	0.155	0.301	0.118	0.187	148.945563	70.041136	849.40	-951.22
7	GUIDE	used	574489568	9.74	5186	-0.076	-0.109	0.183	0.286	147.223974	69.438157	1193.80	2080.95

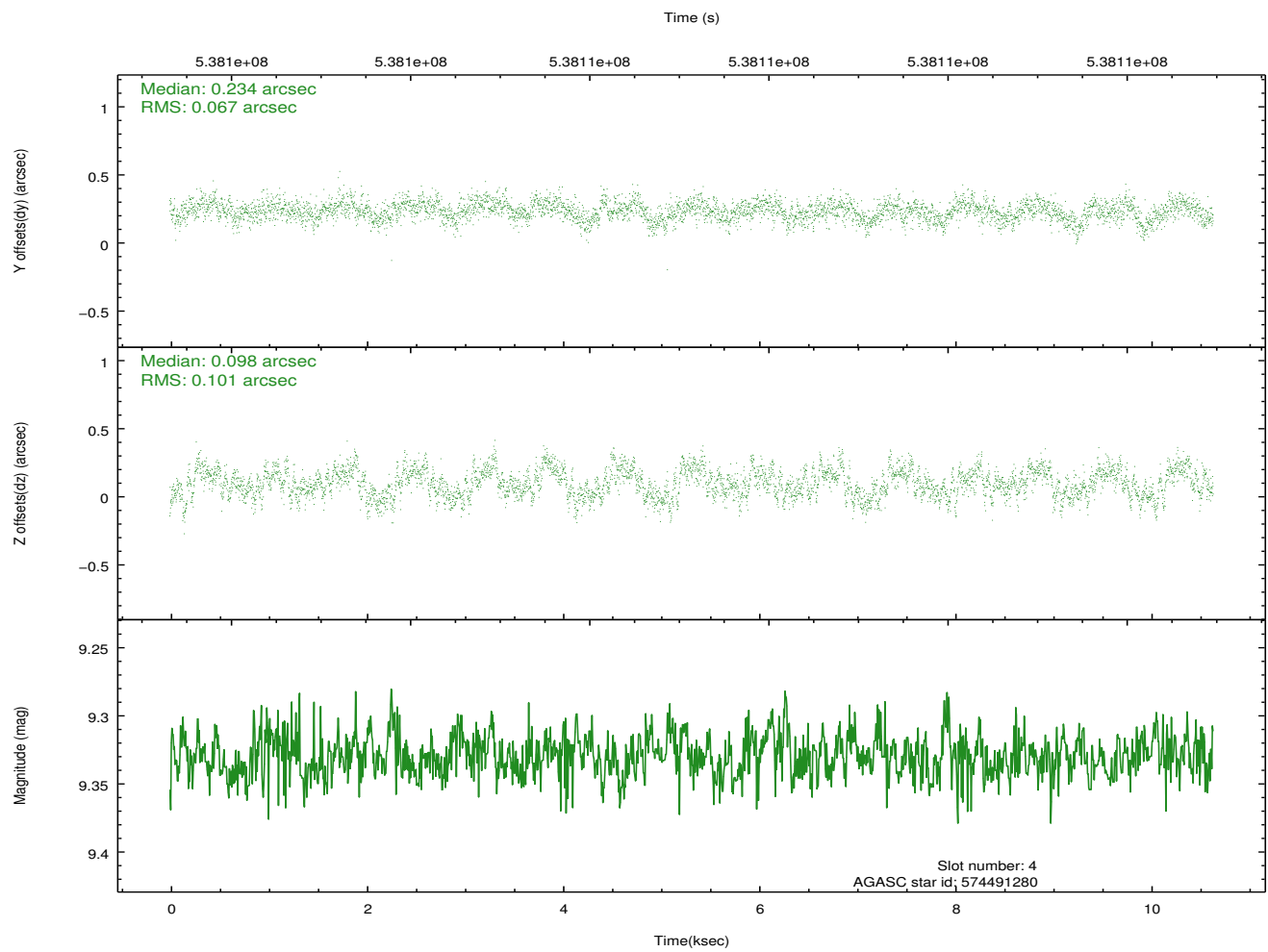
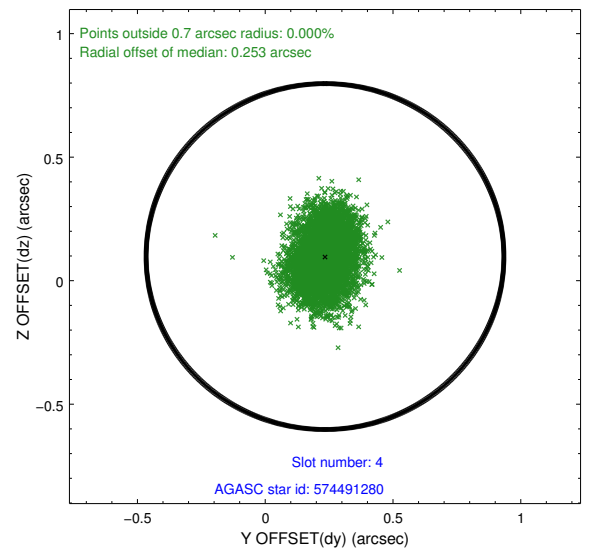
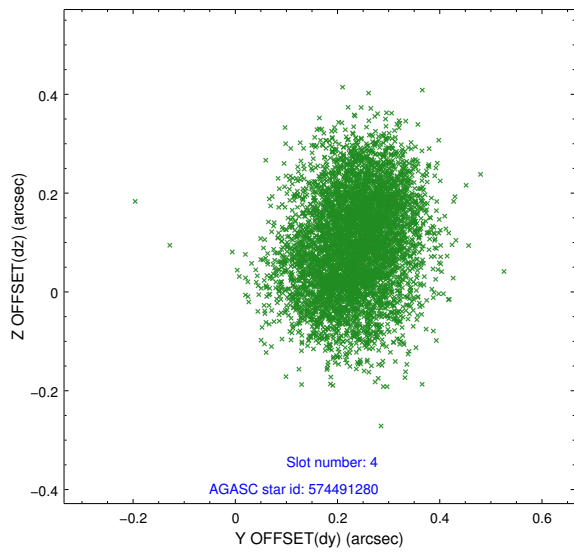
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2.4 Star Slots

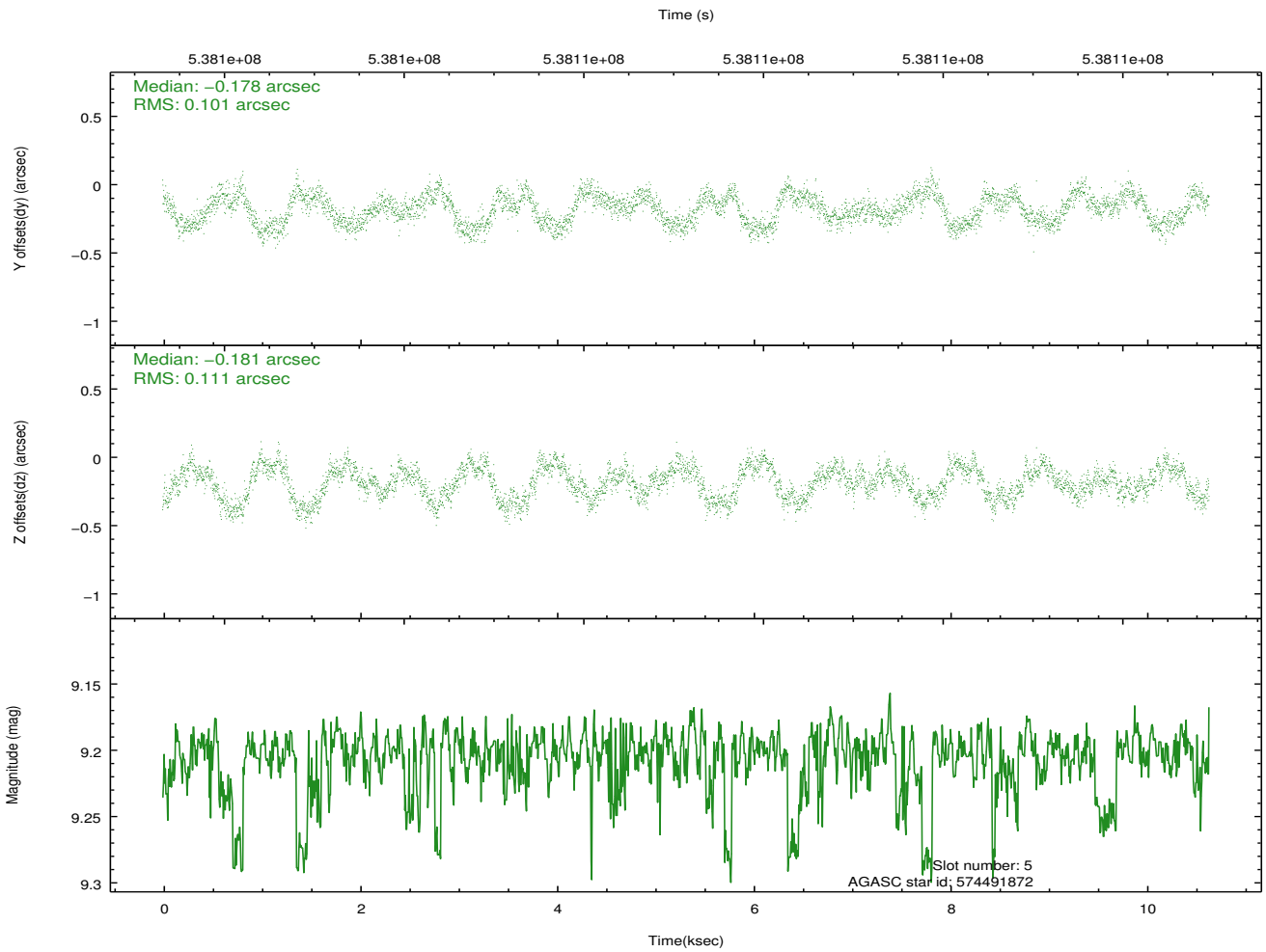
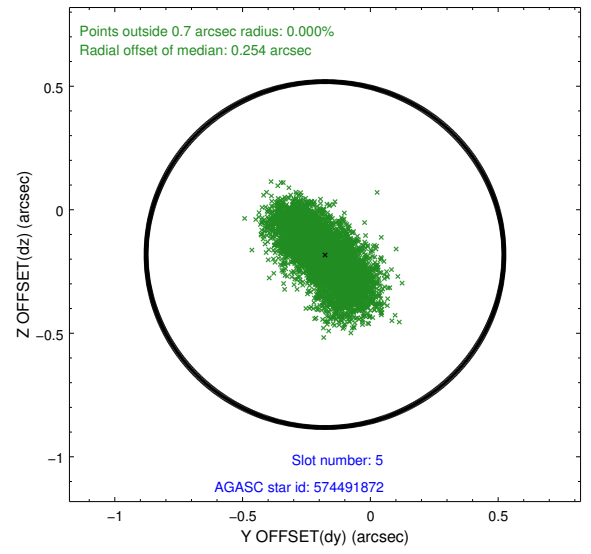
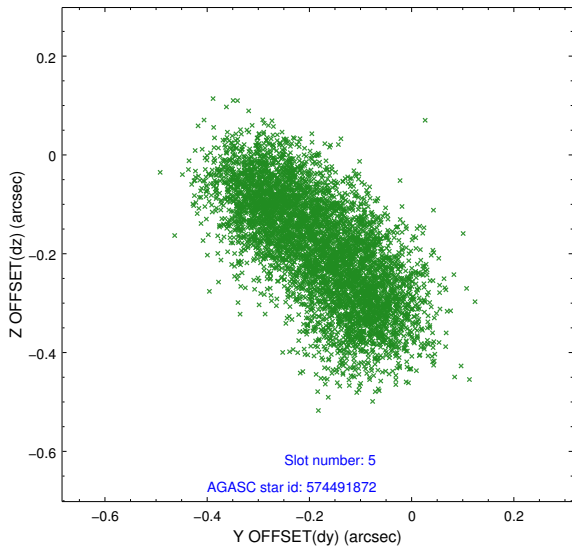
2.4.1 Slot 3



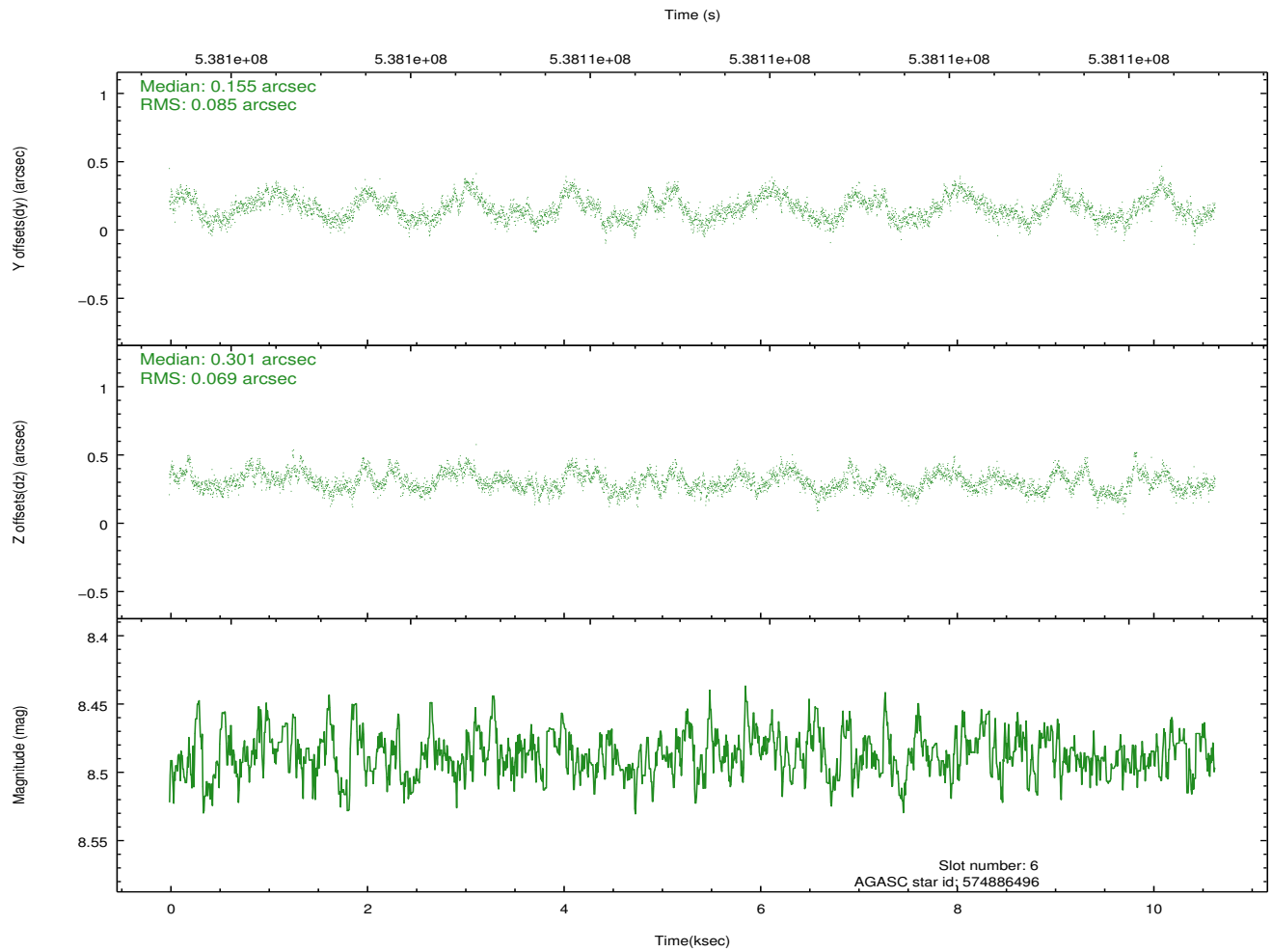
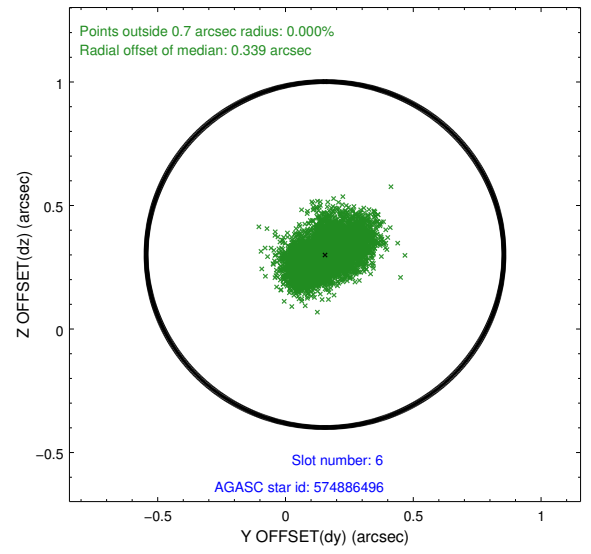
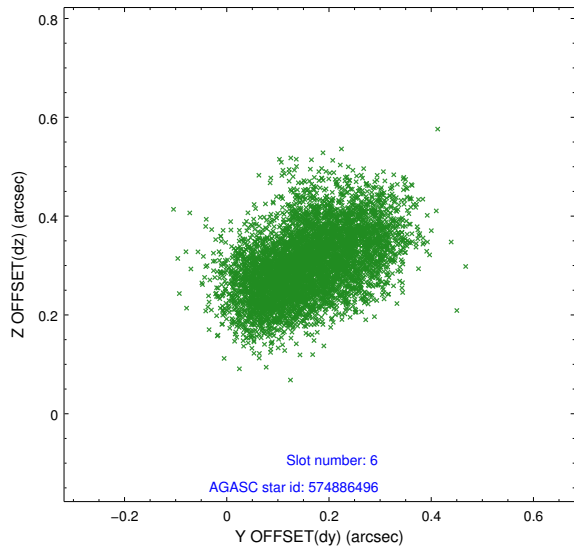
2.4.2 Slot 4



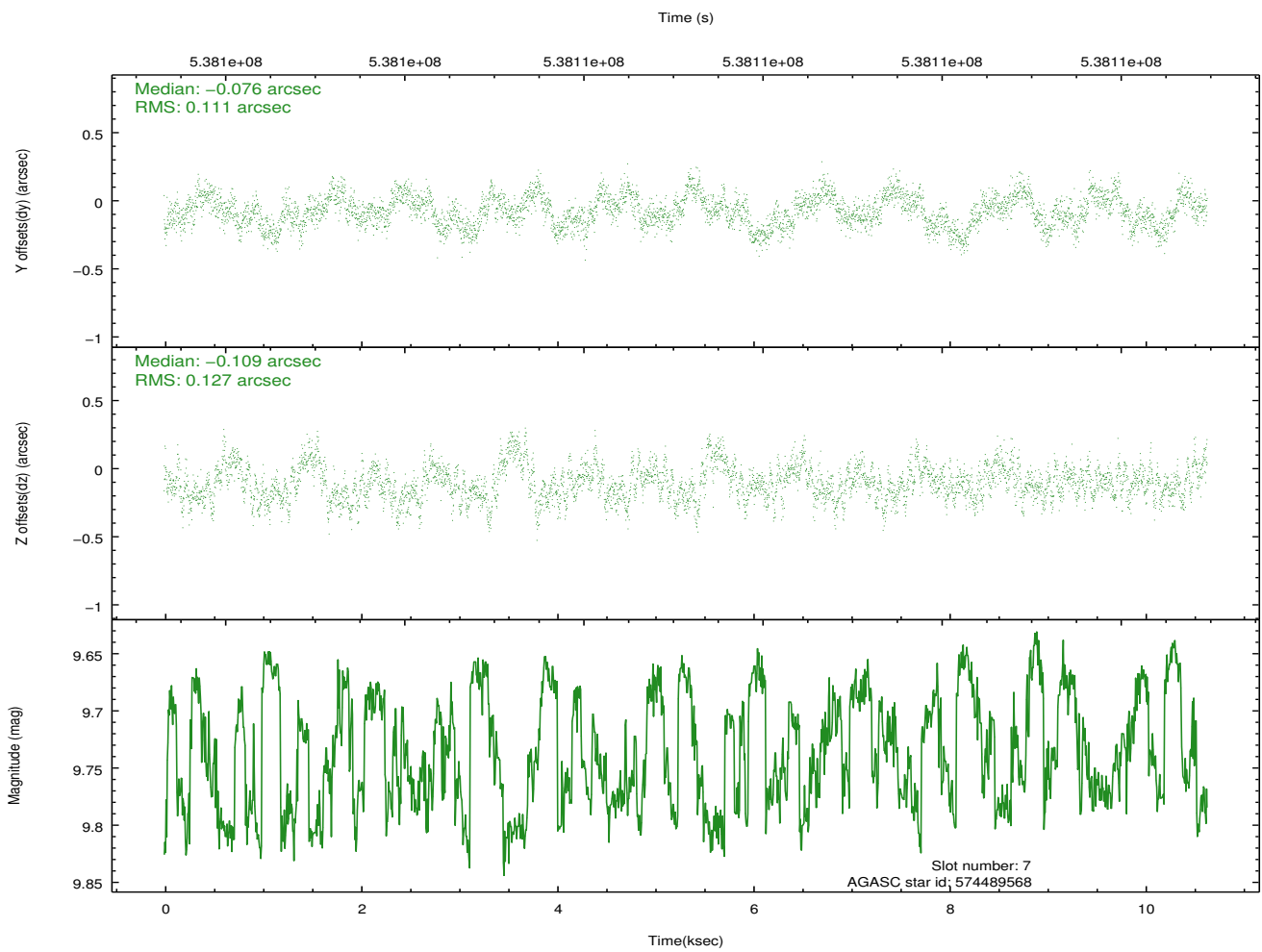
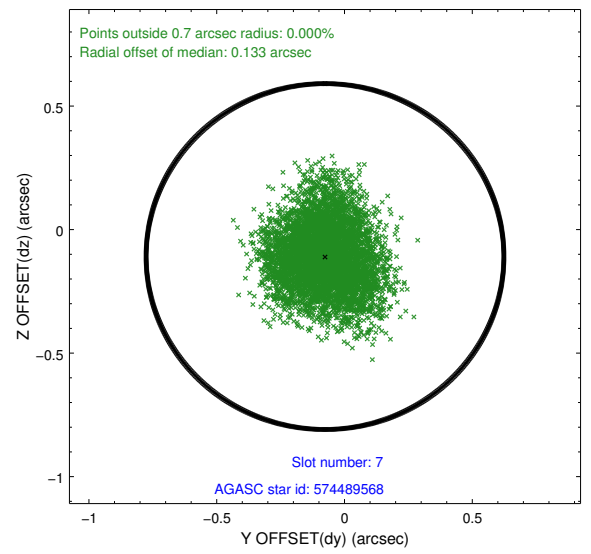
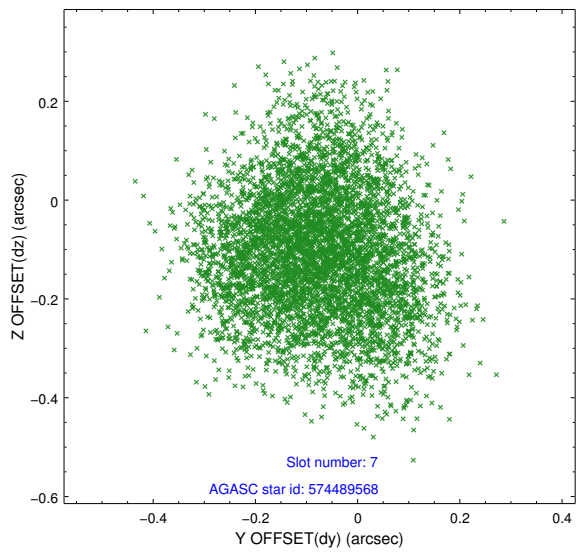
2.4.3 Slot 5



2.4.4 Slot 6

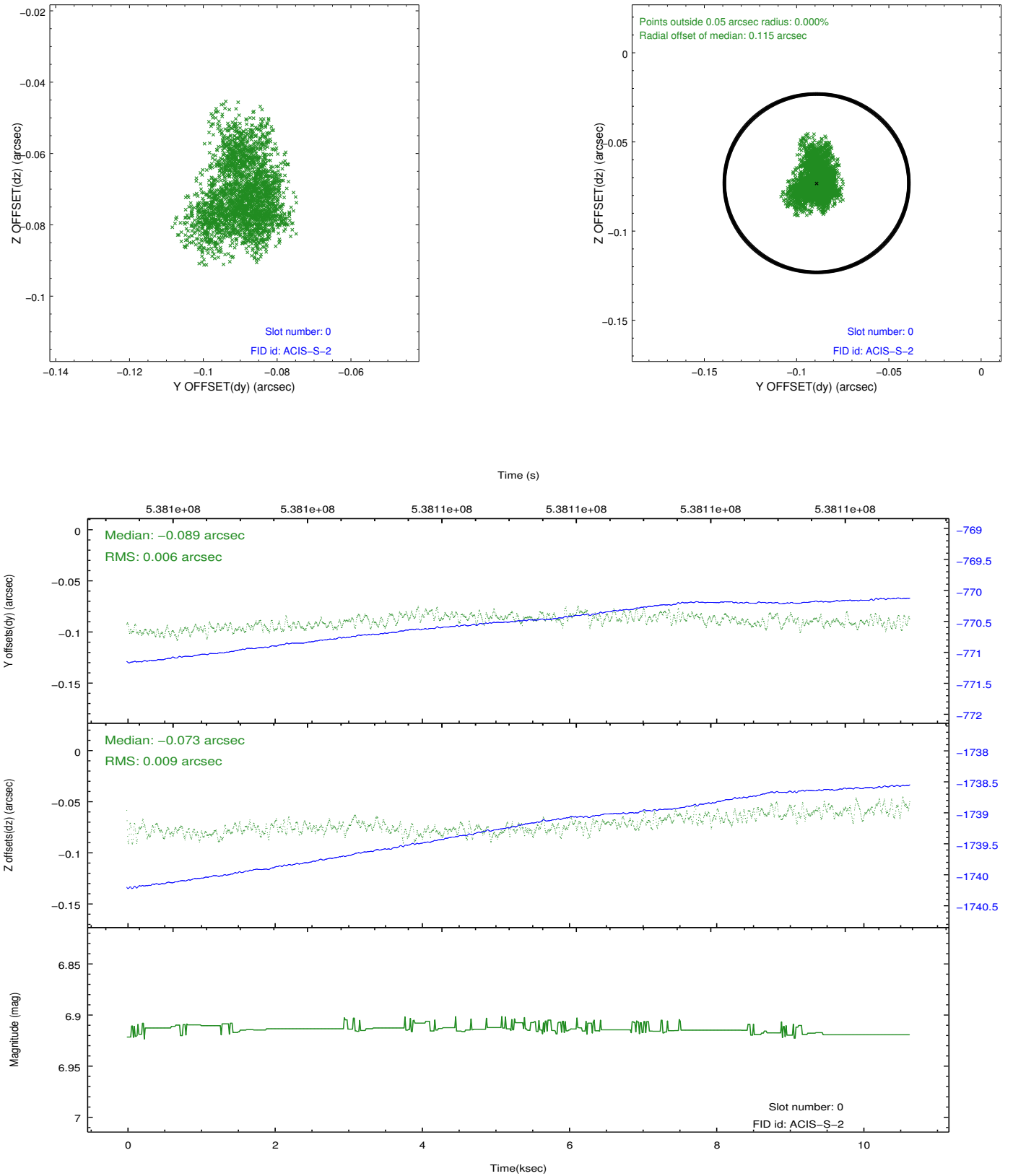


2.4.5 Slot 7

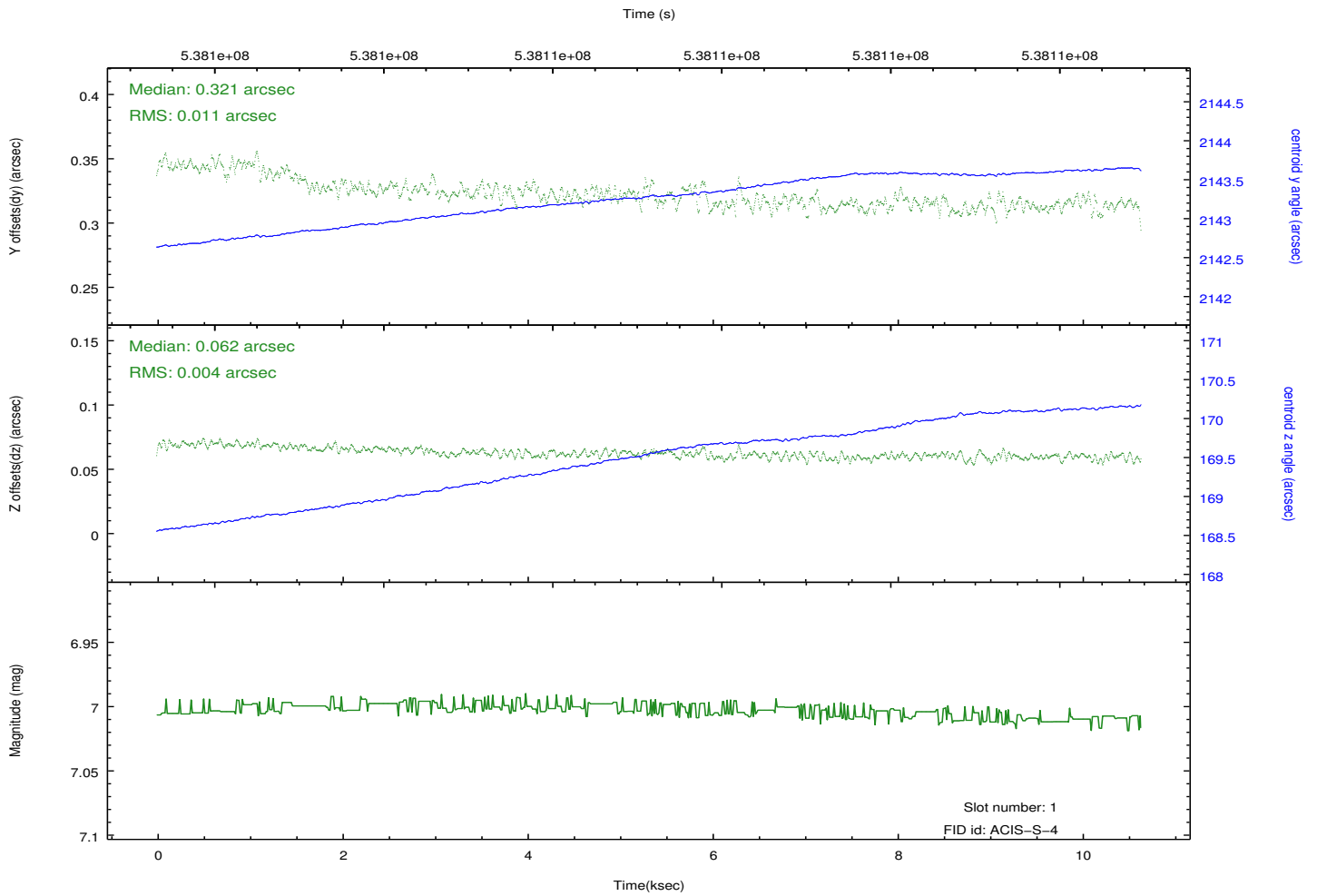
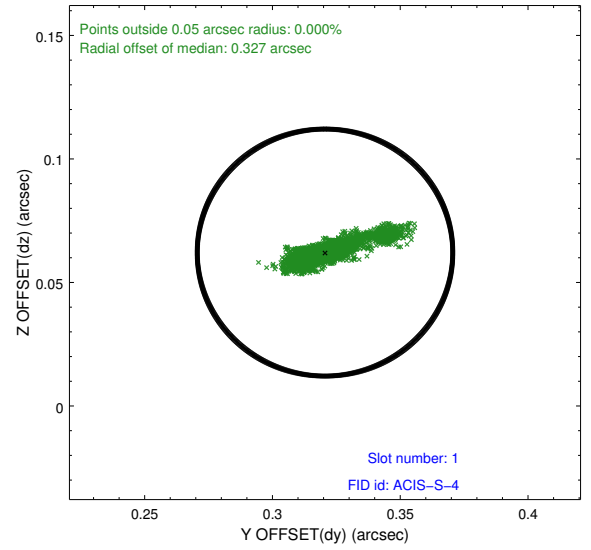
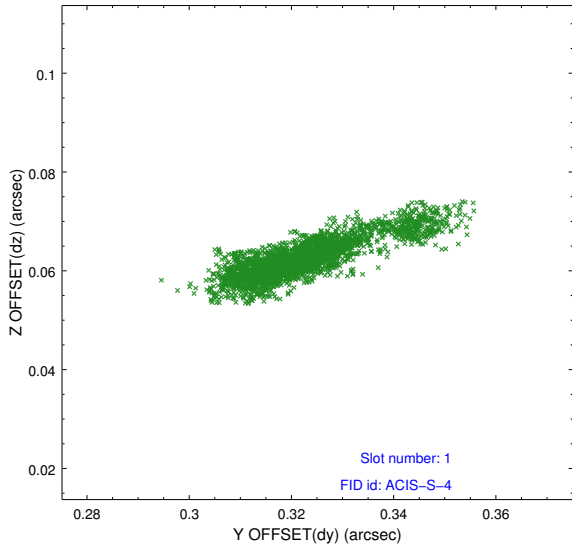


2.5 FID Slots

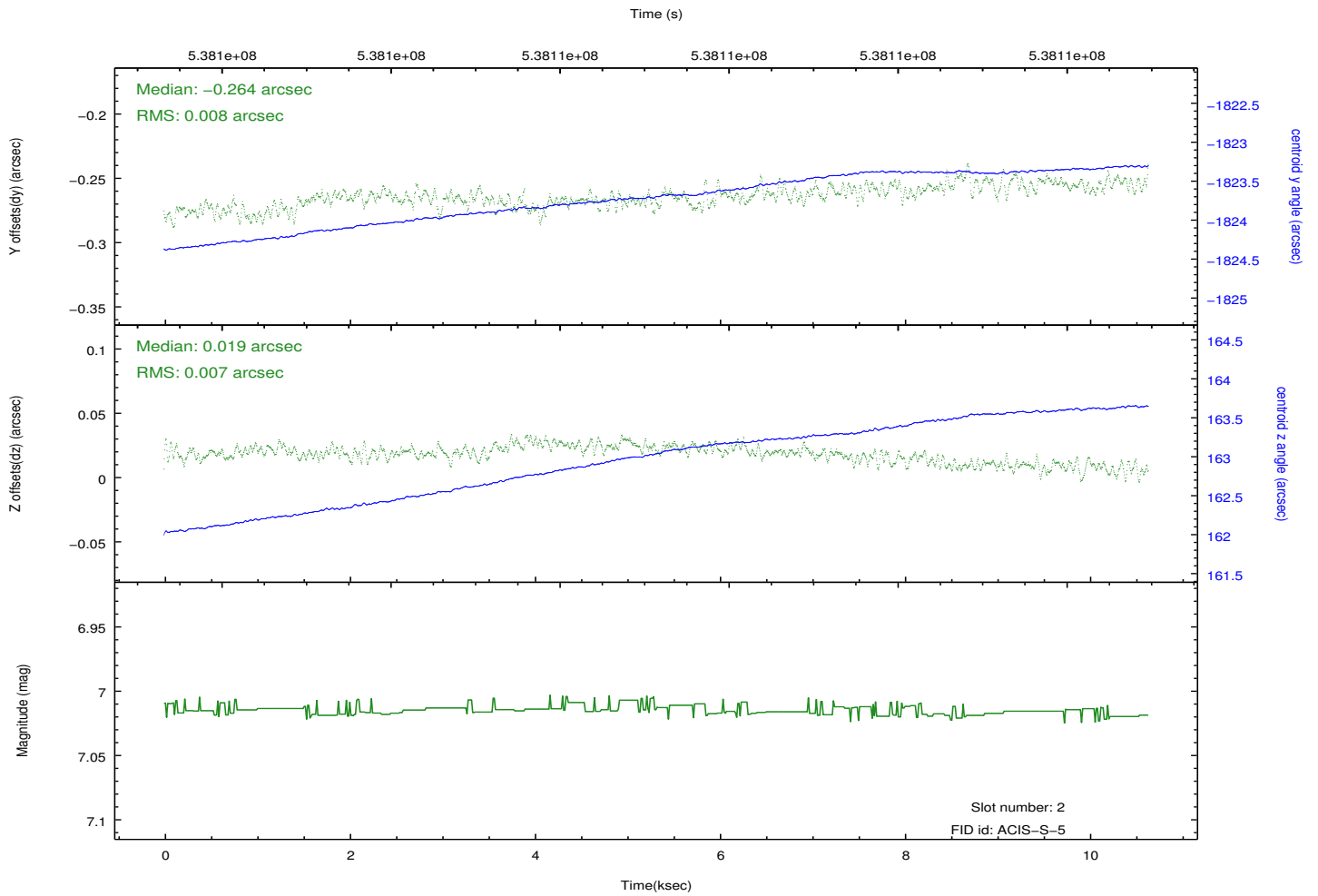
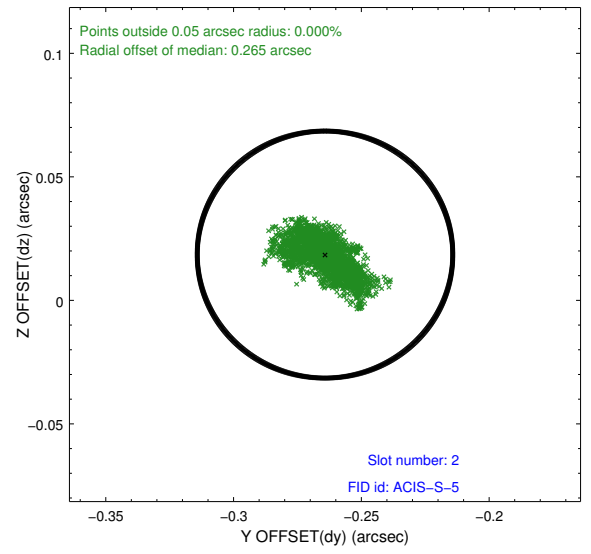
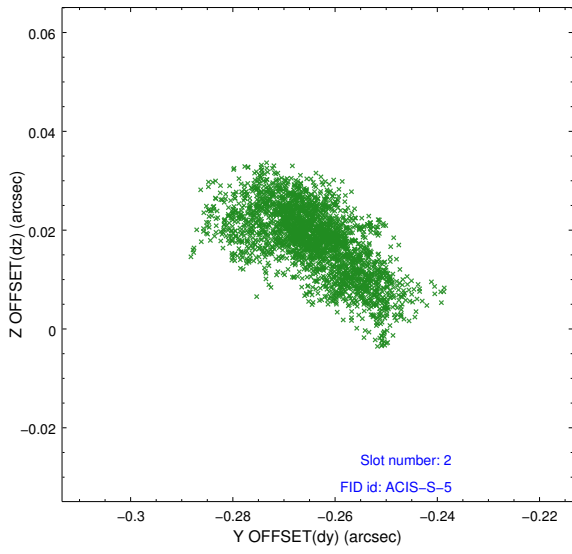
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.01.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.118400077939

A.2 Comments