

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18237 - L2 Version 1
Chandra X-Ray Center

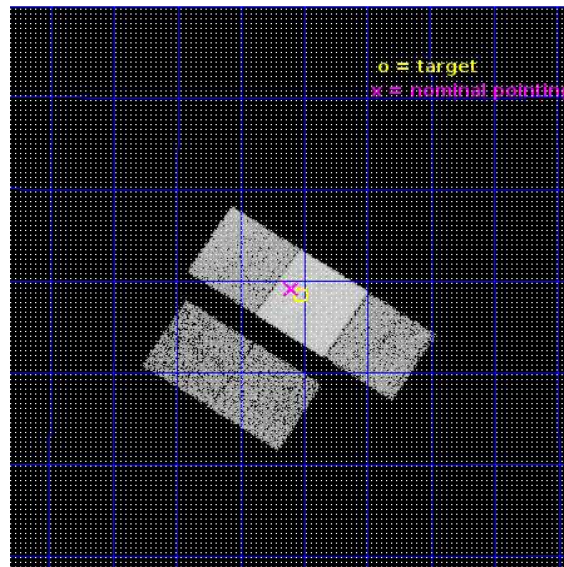
L2 Processing Date : Nov 4 2016

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

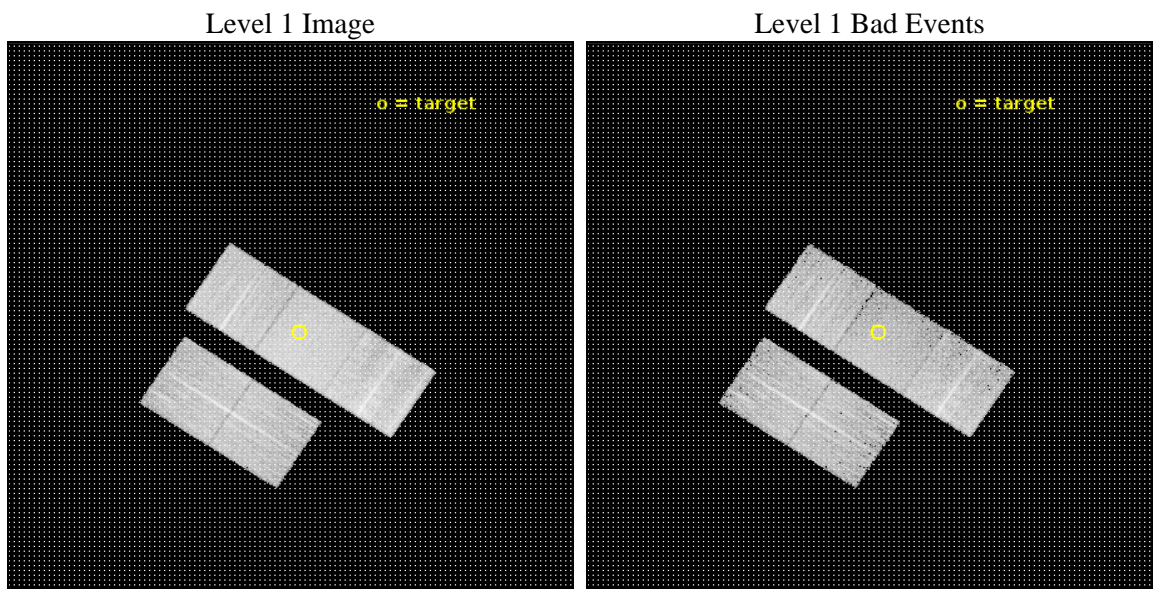
seq_num	801564	Sequence number
obs_id	18237	Observation id
title	Tales of tails: the Coma episodes	Proposal title
observer	Ming Sun	Principal investigator
object	RB 219	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.75735	Observer's specified target RA [deg]
dec_targ	27.640575	Observer's specified target Dec [deg]
ra_nom	194.77483894276	Nominal RA [deg]
dec_nom	27.653064575343	Nominal Dec [deg]
roll_nom	33.148499646495	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10062.016993999	Sum of GTIs [s]
livetime	9930.5493344237	Livetime [s]
ontime2	10058.711863756	Sum of GTIs [s]
ontime3	10055.652953506	Sum of GTIs [s]
ontime6	10061.975954056	Sum of GTIs [s]
ontime7	10062.016993999	Sum of GTIs [s]
ontime8	10061.893874049	Sum of GTIs [s]
l2events	81244	Number of level 2 events



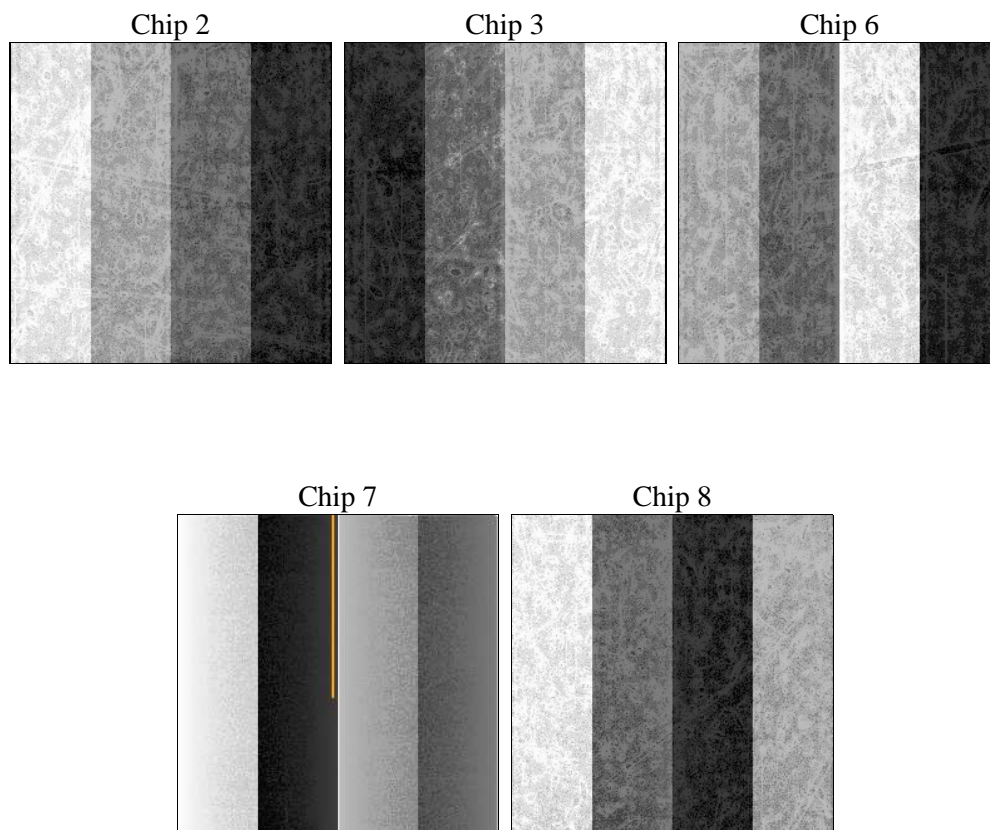
2 OBI

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	10.5.2	Processing system revision	ontime	10062.016993999	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	10058.711863756	Sum of GTIs [s]
date	2016-11-04T06:39:41	Date and time of file creation	ontime3	10055.652953506	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10061.975954056	Sum of GTIs [s]
			ontime7	10062.016993999	Sum of GTIs [s]
			ontime8	10061.893874049	Sum of GTIs [s]
			l1events	392726	Number of level 1 events

2.1.4 Events

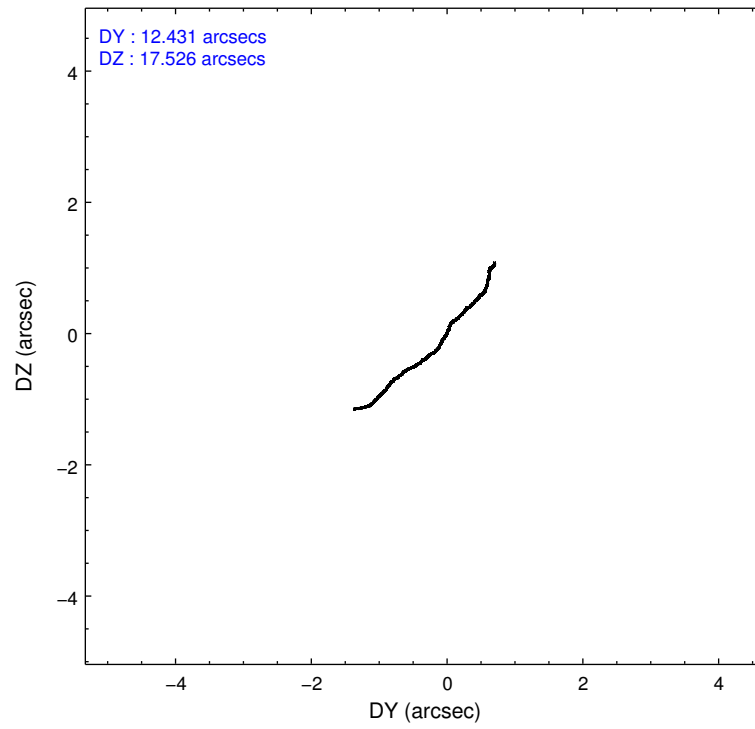
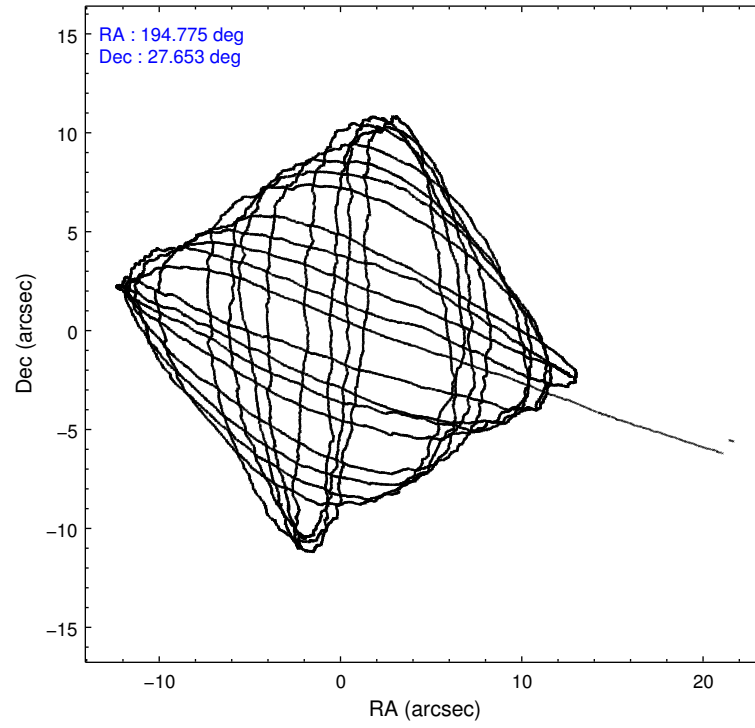
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	66681	65368	76957	92440	91280
rejected events	58079	57041	61161	49590	64081
rejected %	87%	87%	79%	53%	70%

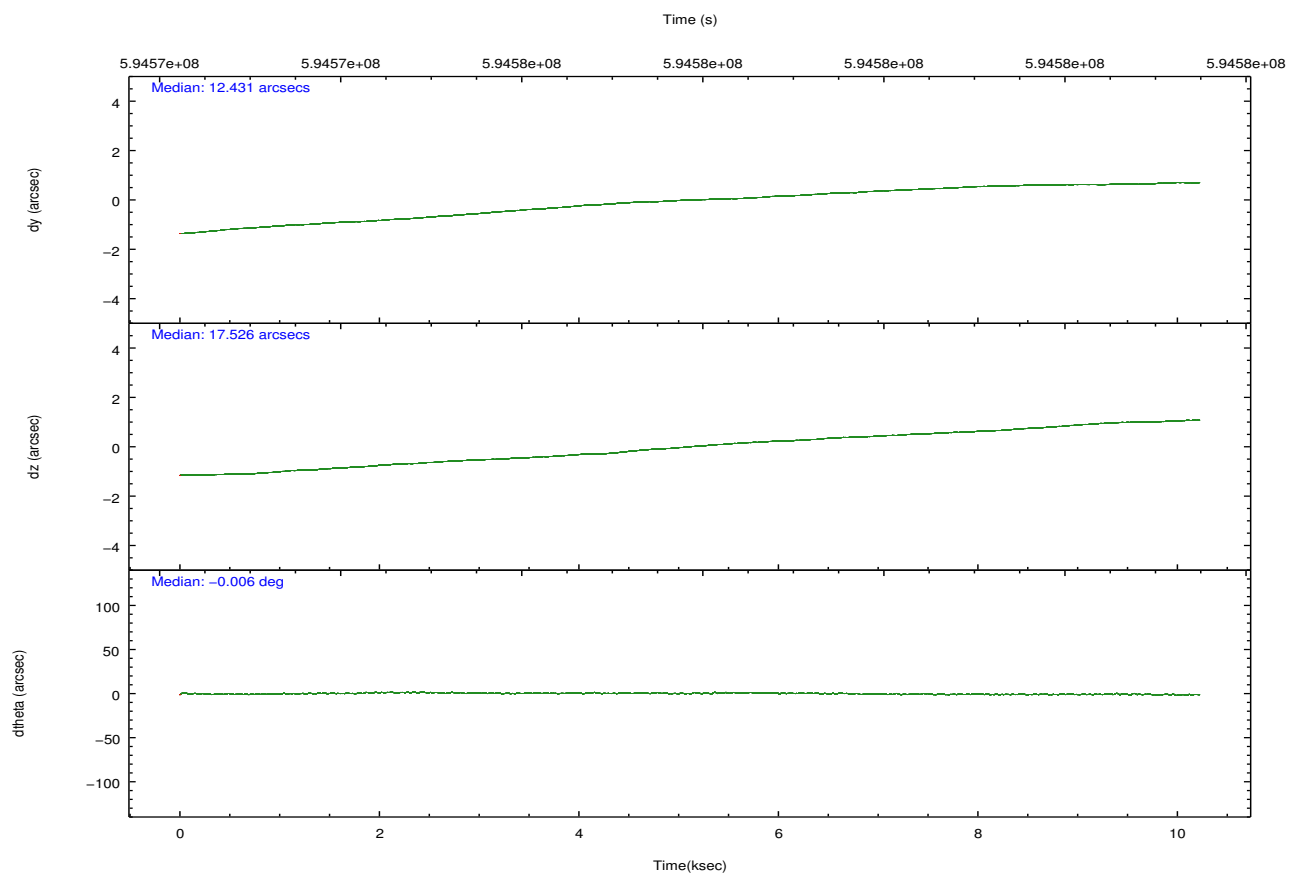
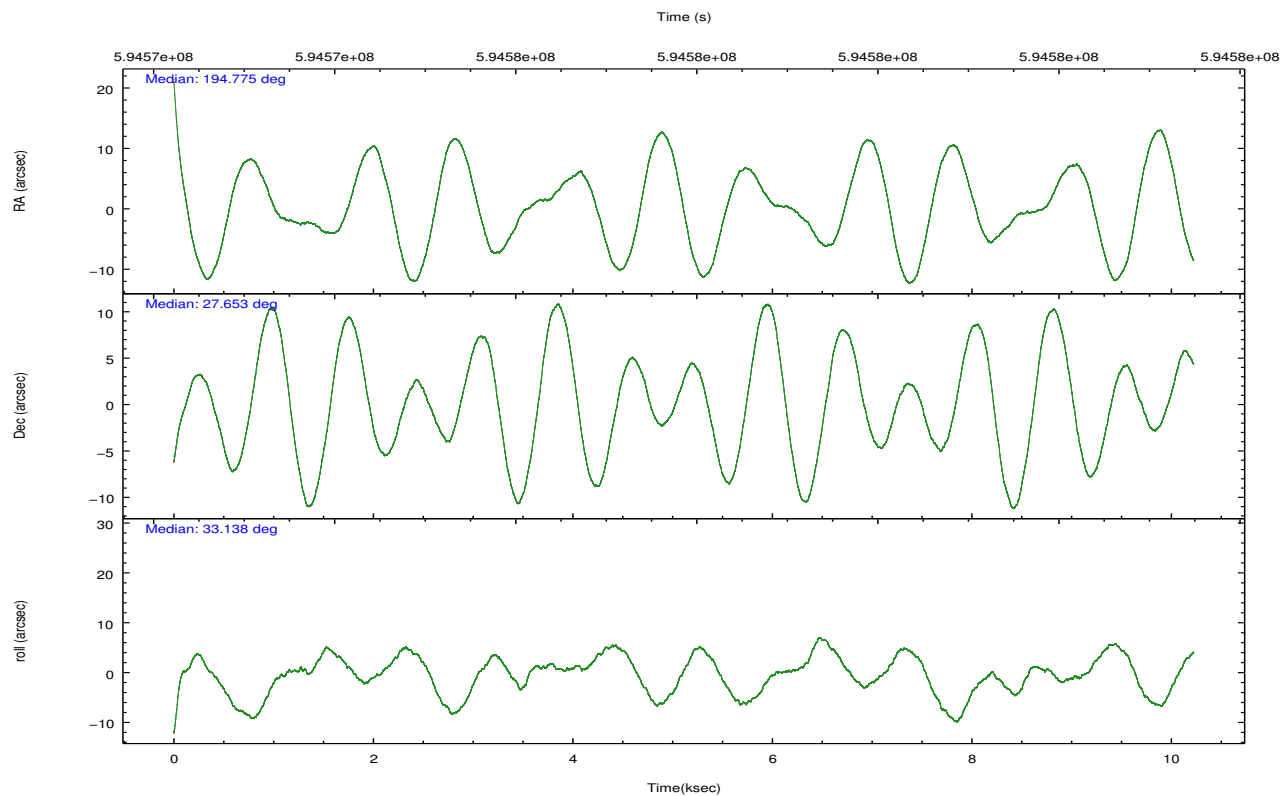
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3582	3654	8737	4460	9260
	5%	5%	11%	4%	10%
grade 1 events	47	43	77	134	85
	0%	0%	0%	0%	0%
grade 2 events	1961	1564	2758	9228	6457
	2%	2%	3%	9%	7%
grade 3 events	762	748	1068	3591	2414
	1%	1%	1%	3%	2%
grade 4 events	800	837	1098	3666	2361
	1%	1%	1%	3%	2%
grade 5 events	2646	3216	3276	8774	4728
	3%	4%	4%	9%	5%
grade 6 events	1504	1528	2143	21925	6714
	2%	2%	2%	23%	7%
grade 7 events	55379	53778	57800	40662	59261
	83%	82%	75%	43%	64%

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	194.761202	194.7748389427567	CCD I2 on	O1	Y
[deg] Pointing Dec	27.628401	27.65306457534315	CCD I3 on	Y	Y
[deg] Pointing Roll	32.998207	33.14849964649518	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	Y	Y
[s] Observation start time (MET)	594572972.184000	594572011.4095	CCD S5 on	N	N
Observation start date	2016-11-03T15:08:24	2016-11-03T14:53:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	594582972.184000	594584311.41021	On-chip summing requested	N	N
Observation end date	2016-11-03T17:55:04	2016-11-03T18:18:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



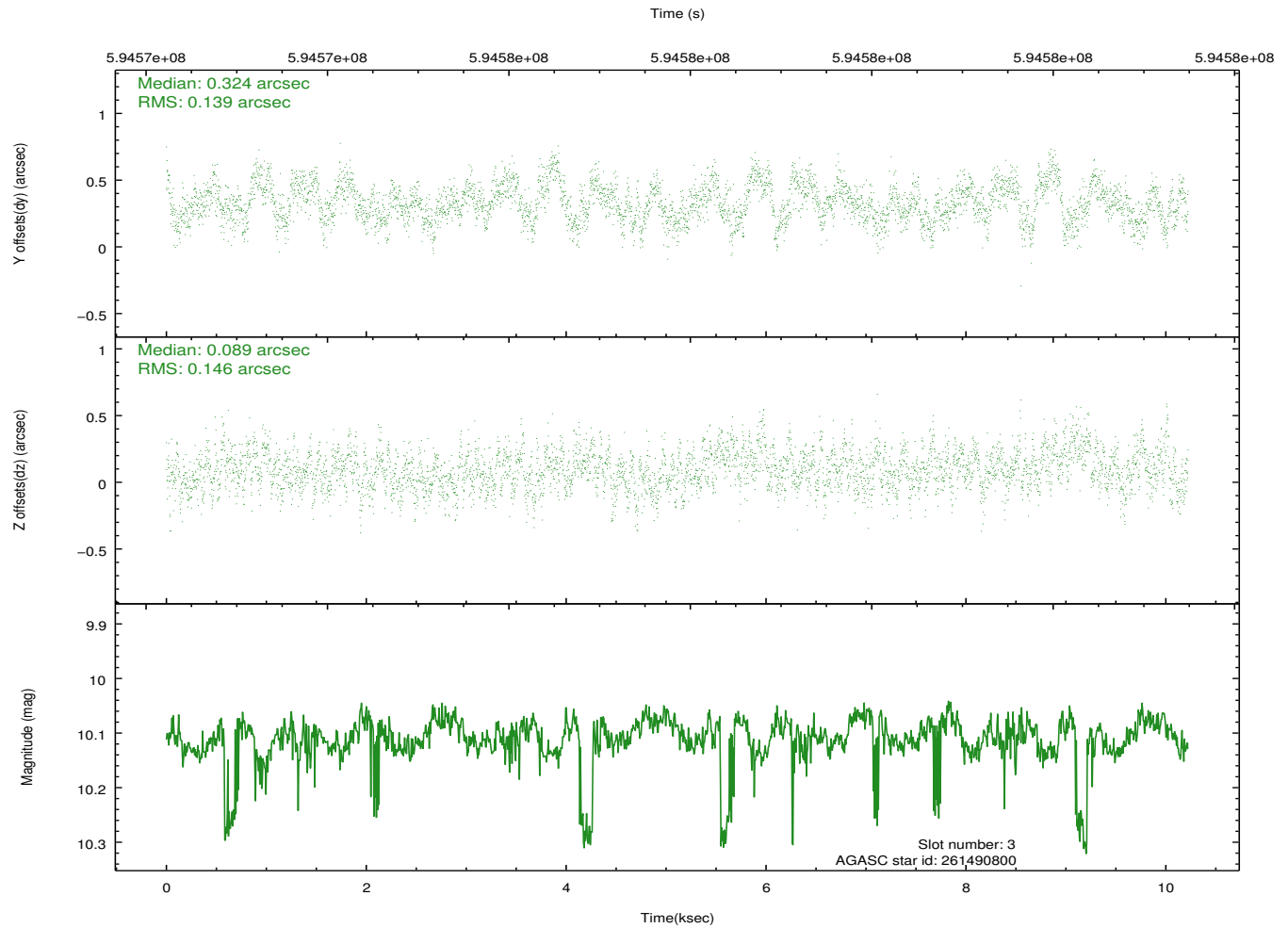
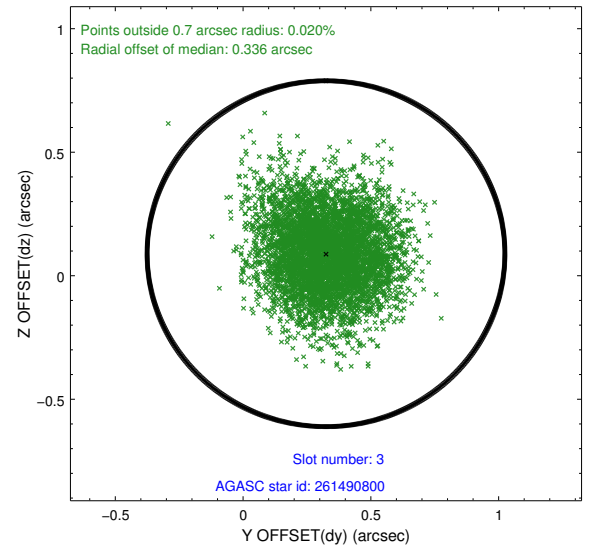
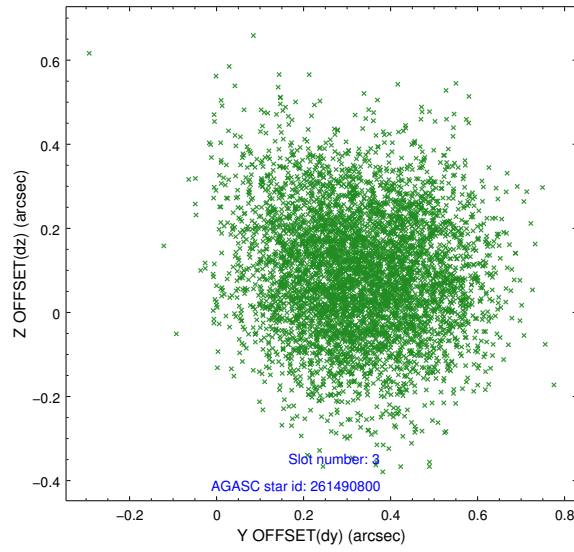


Slot Statistics

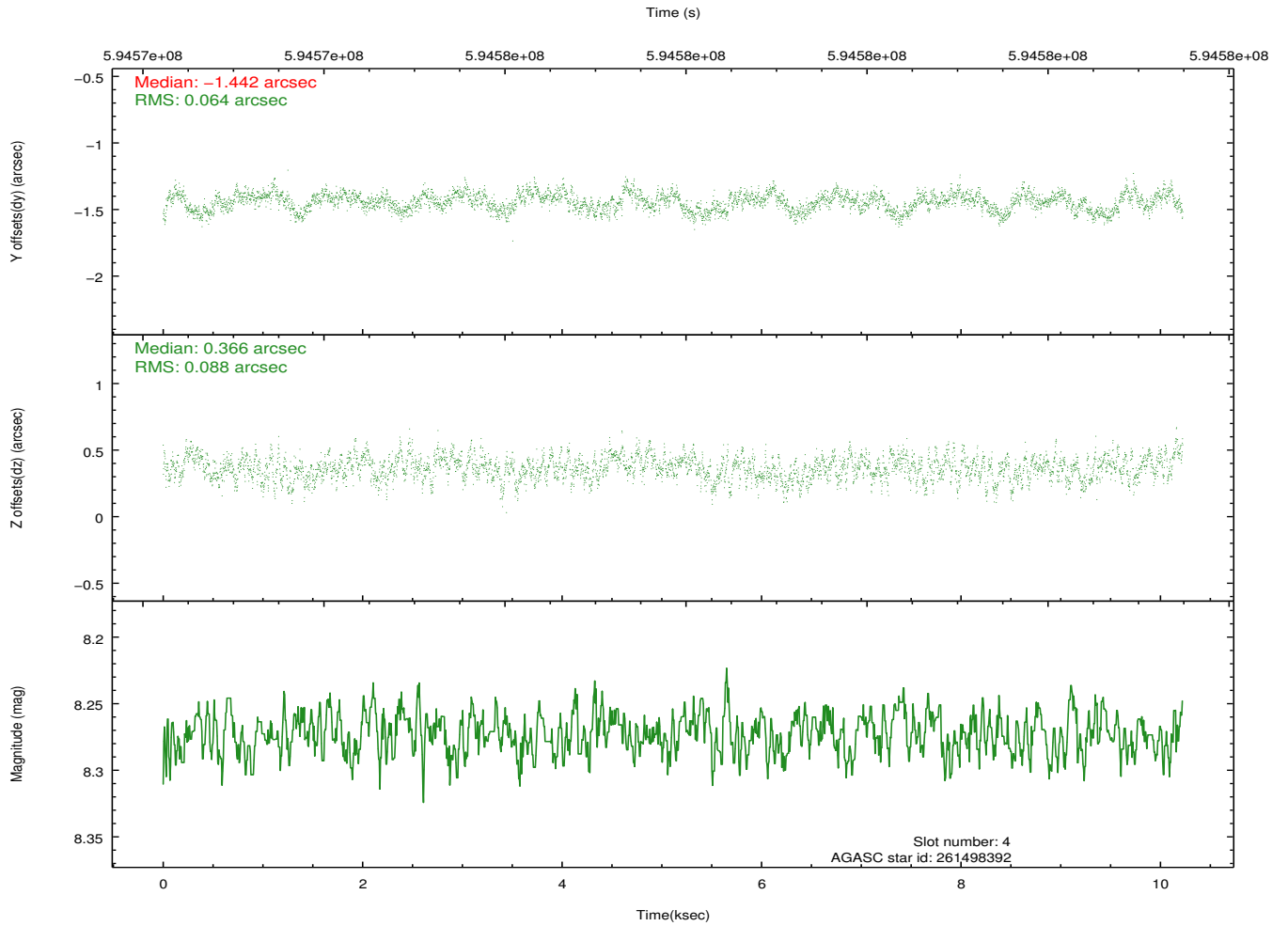
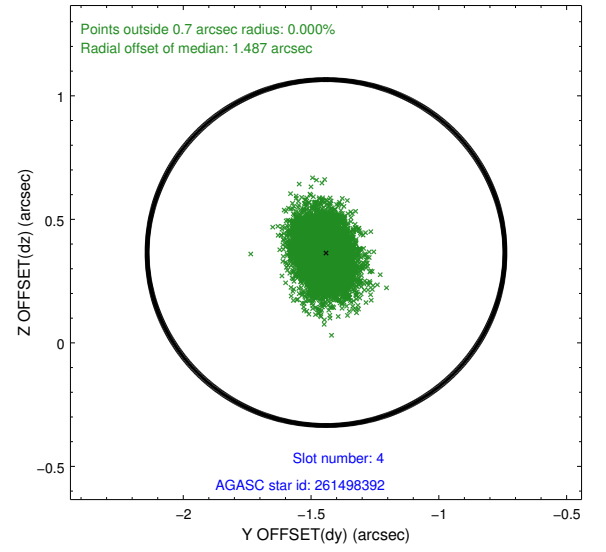
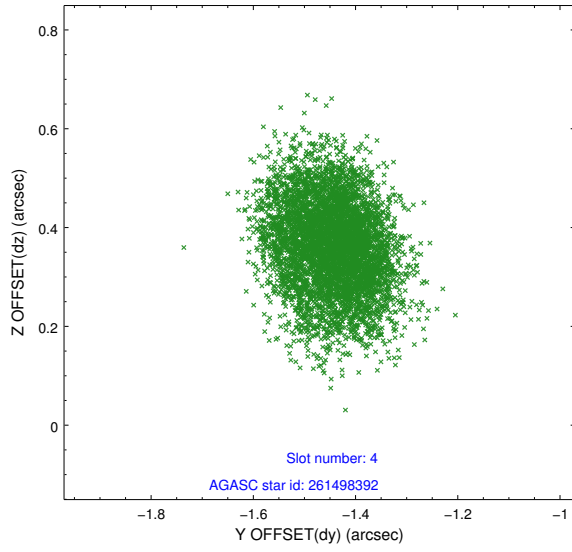
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.05	2493	0.078	-0.040	0.035	0.066	0.000000	0.000000	930.91	-1734.55
1	FID		ACIS-S-4	7.07	2494	0.262	-0.005	0.035	0.051	0.000000	0.000000	2148.77	169.14
2	FID		ACIS-S-5	7.08	2493	-0.365	0.055	0.034	0.055	0.000000	0.000000	-1817.75	163.30
3	GUIDE	used	261490800	10.11	4972	0.324	0.089	0.216	0.344	195.029641	27.224508	-70.30	-1685.78
4	GUIDE	used	261498392	8.27	4986	-1.442	0.366	0.116	0.188	194.888587	28.238913	1534.17	1624.17
5	GUIDE	used	261502496	7.32	4988	0.276	-0.776	0.107	0.169	194.887297	28.065668	1193.74	1102.41
6	GUIDE	used	261505232	9.75	4982	0.389	0.052	0.223	0.353	194.216553	27.802521	-1111.04	1472.22
7	GUIDE	used	261503592	7.86	4987	0.463	0.267	0.113	0.194	193.784432	27.766358	-2333.47	2121.04

2.4 Star Slots

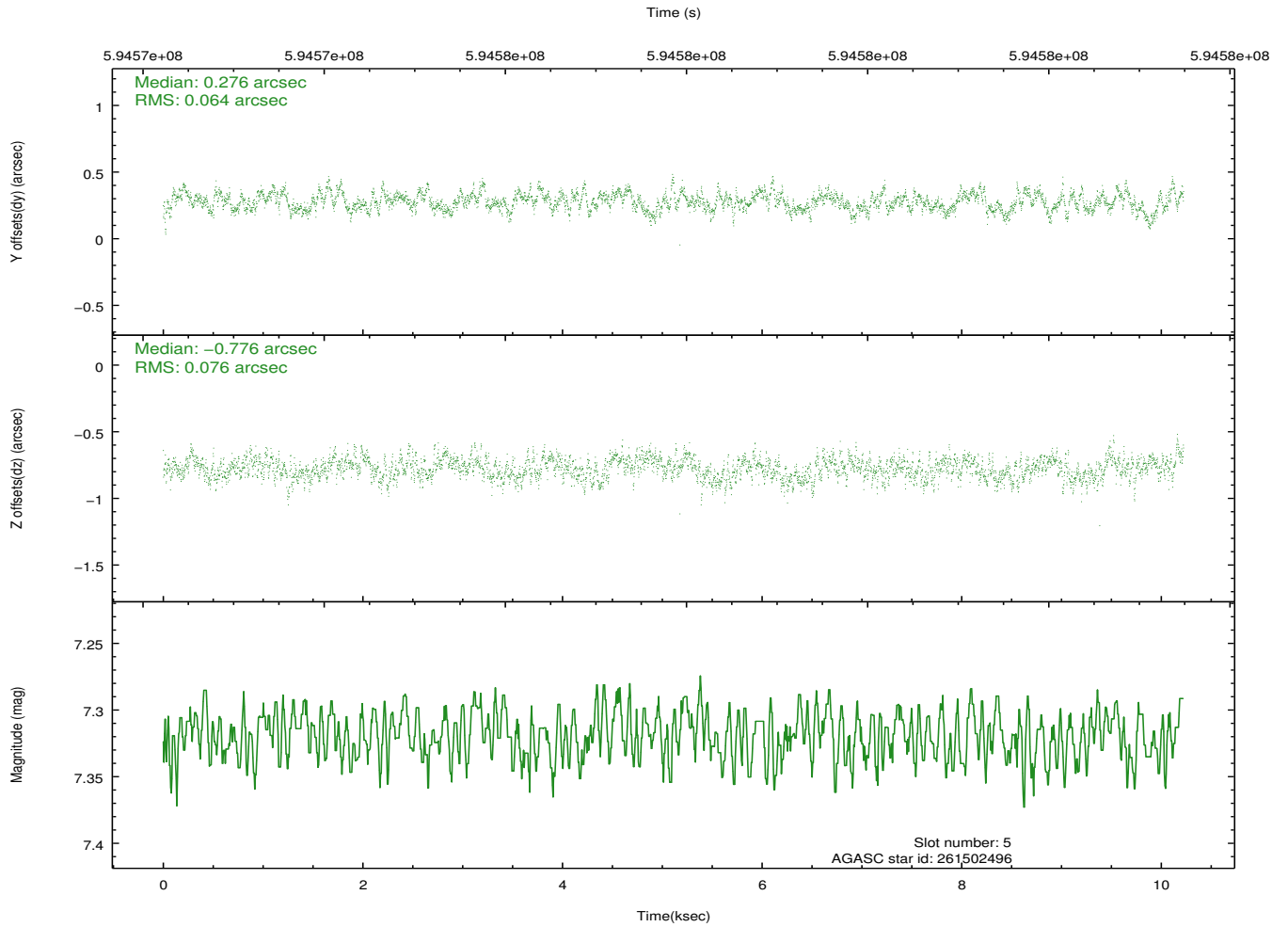
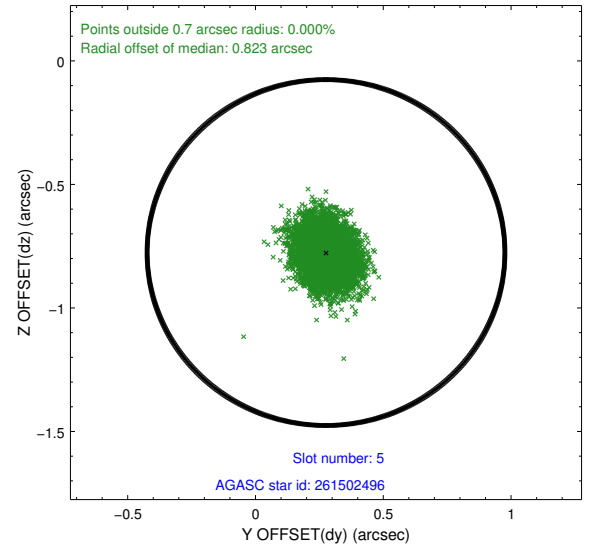
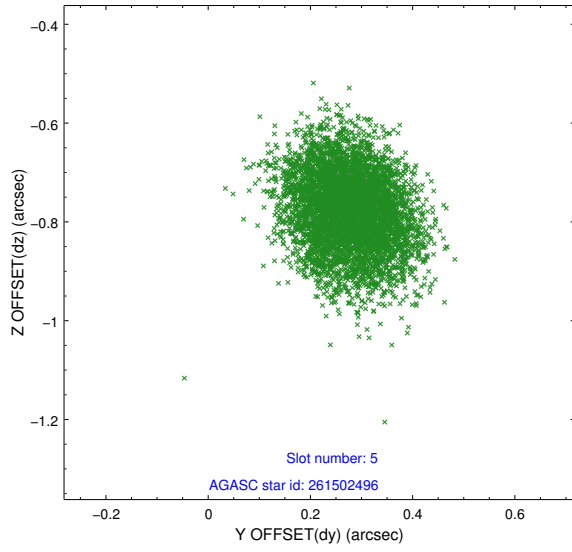
2.4.1 Slot 3



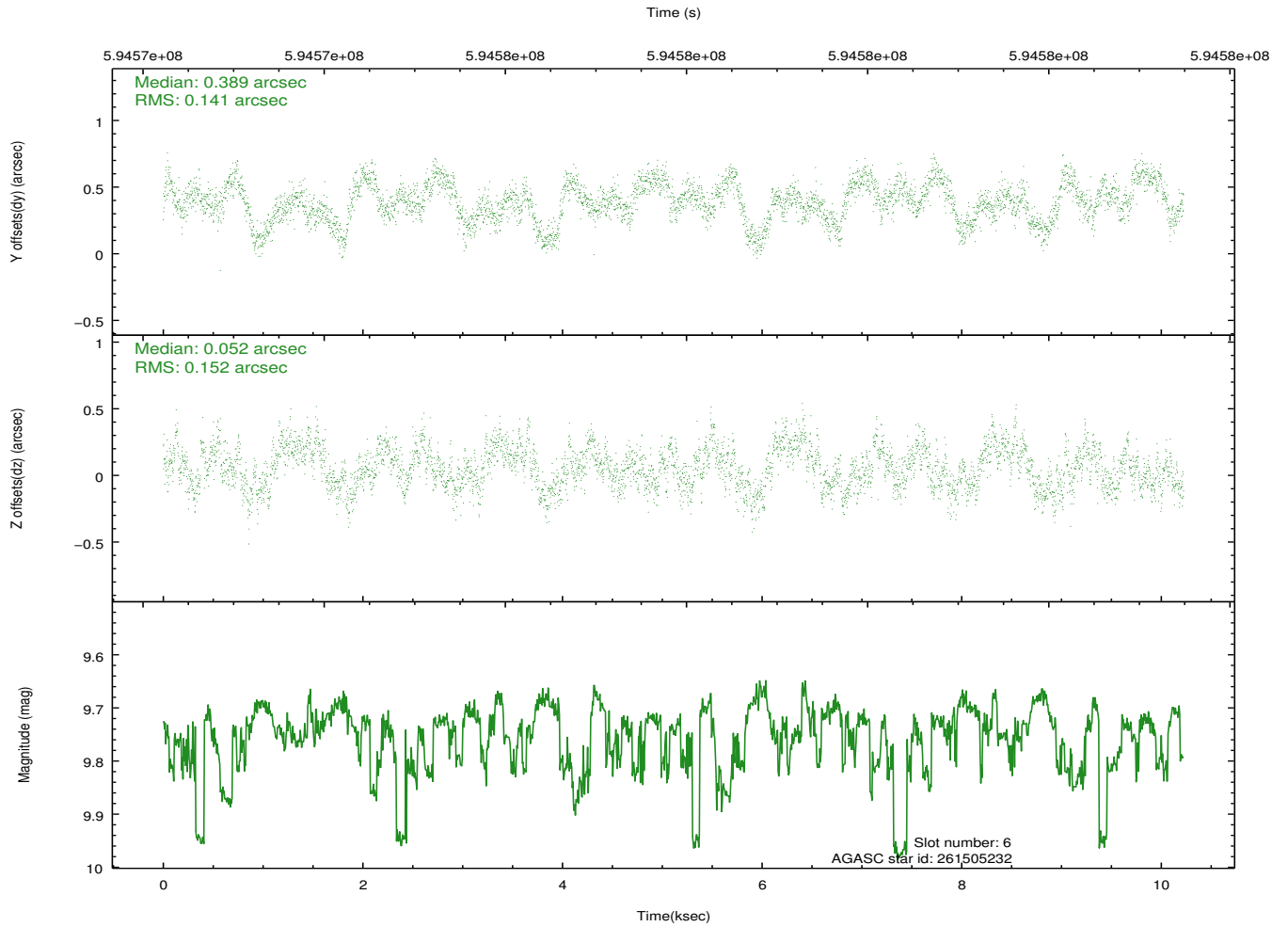
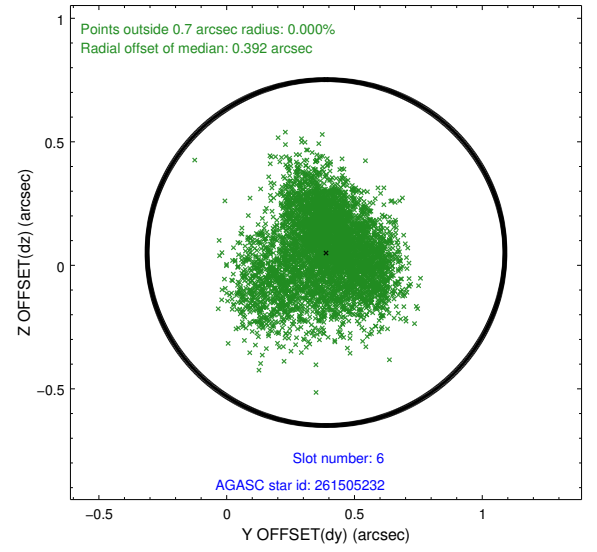
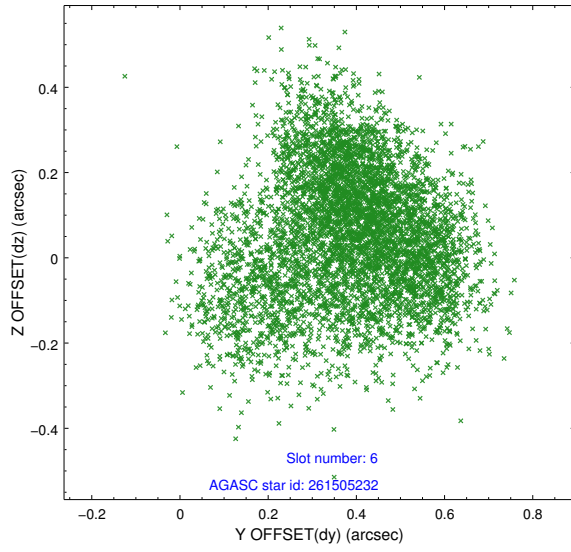
2.4.2 Slot 4



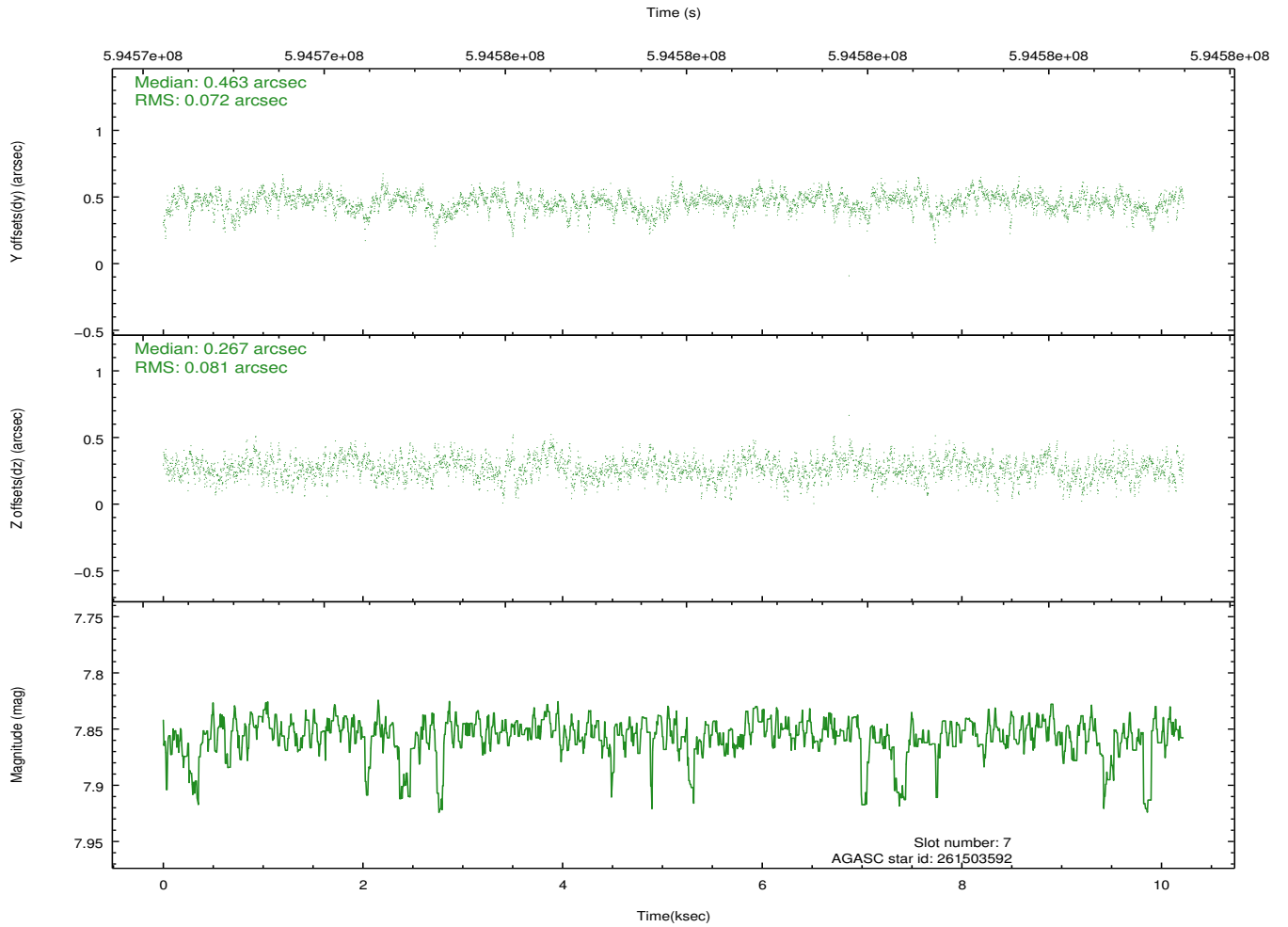
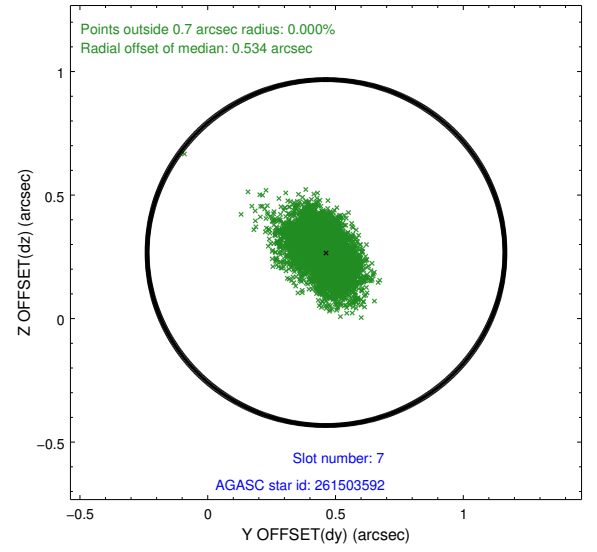
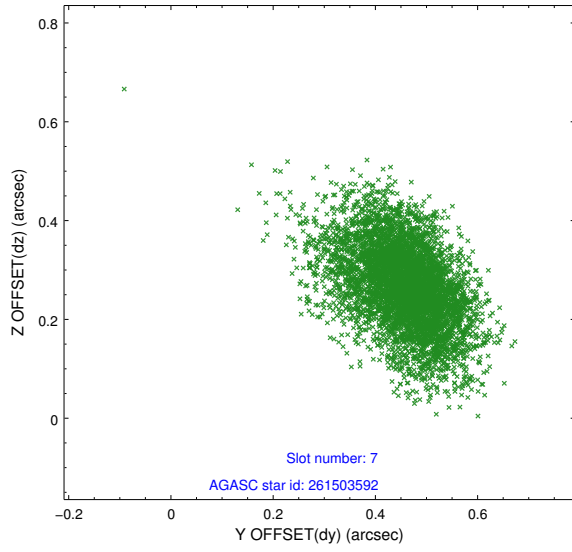
2.4.3 Slot 5



2.4.4 Slot 6

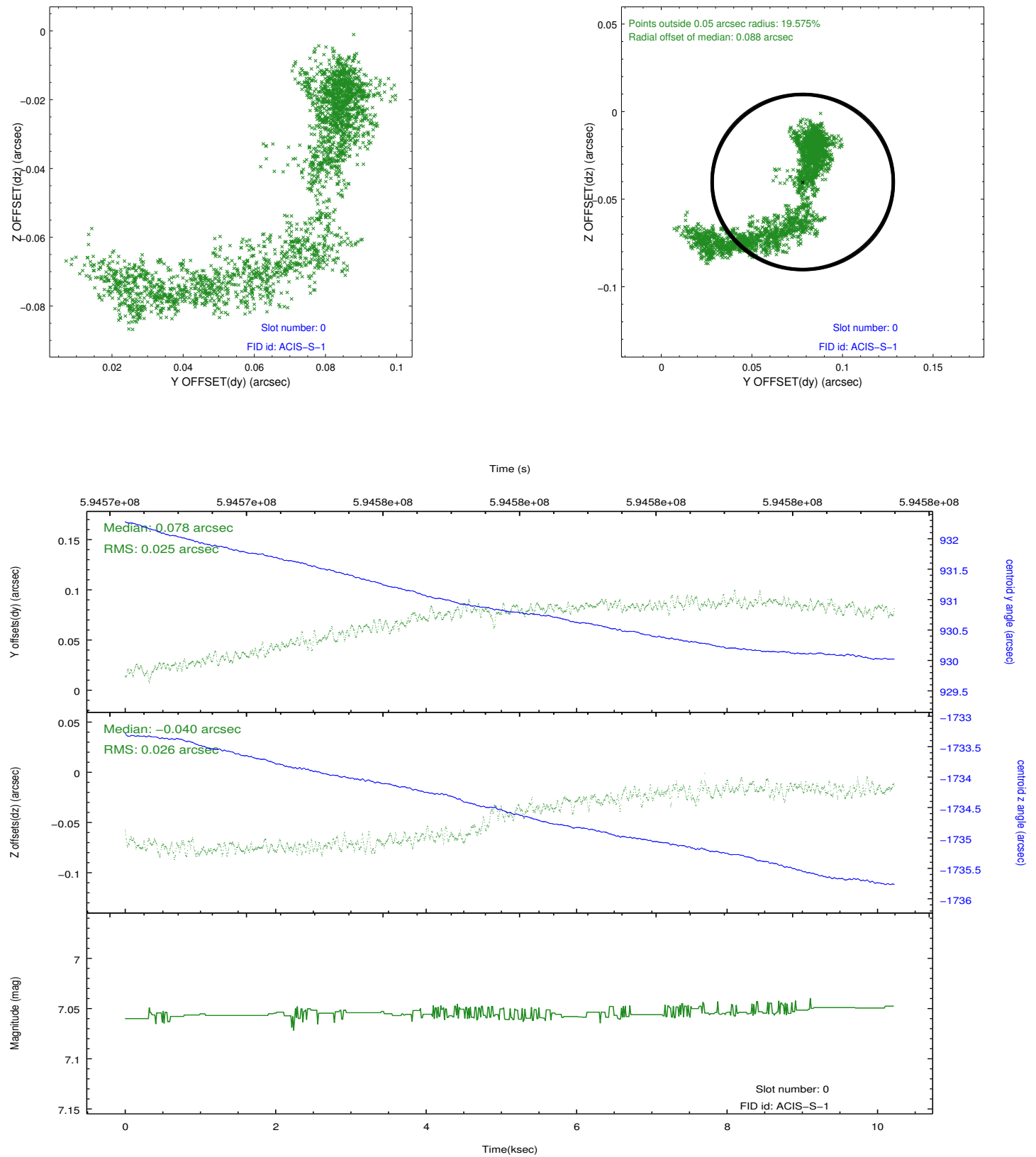


2.4.5 Slot 7

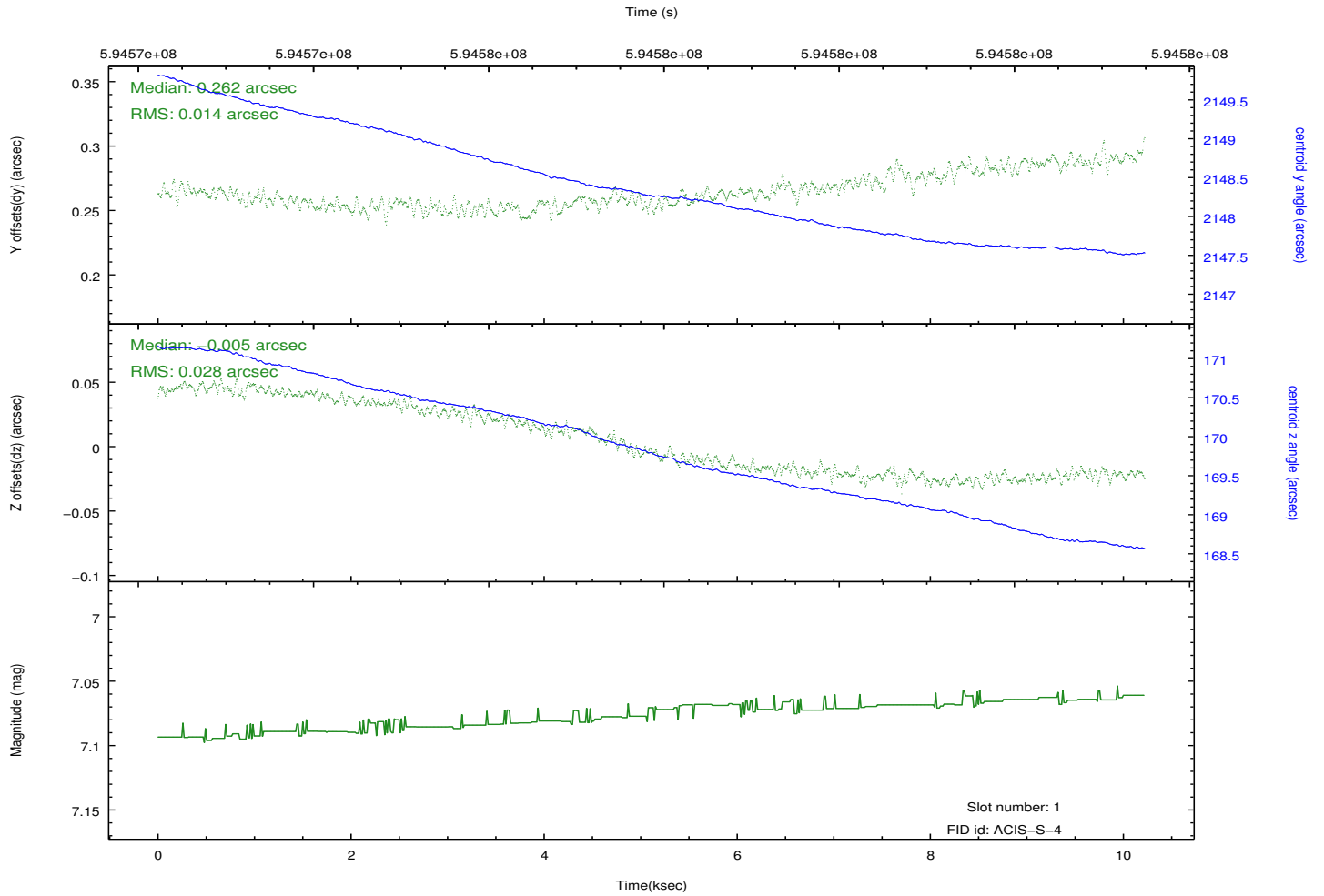
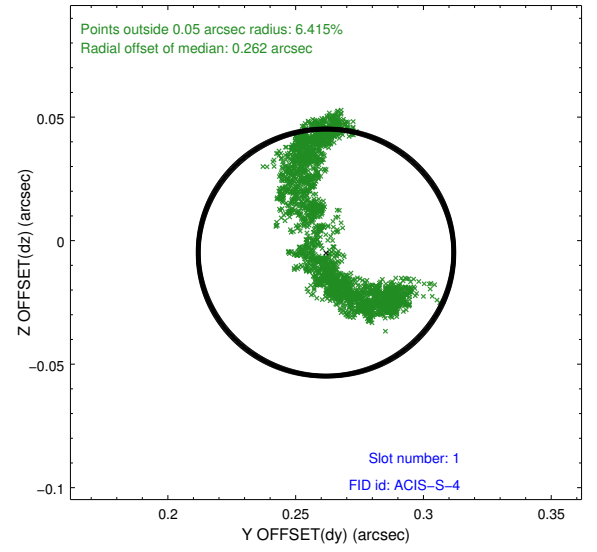
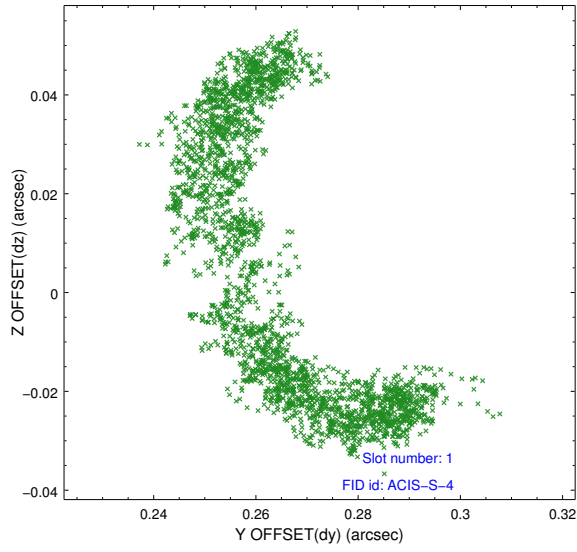


2.5 FID Slots

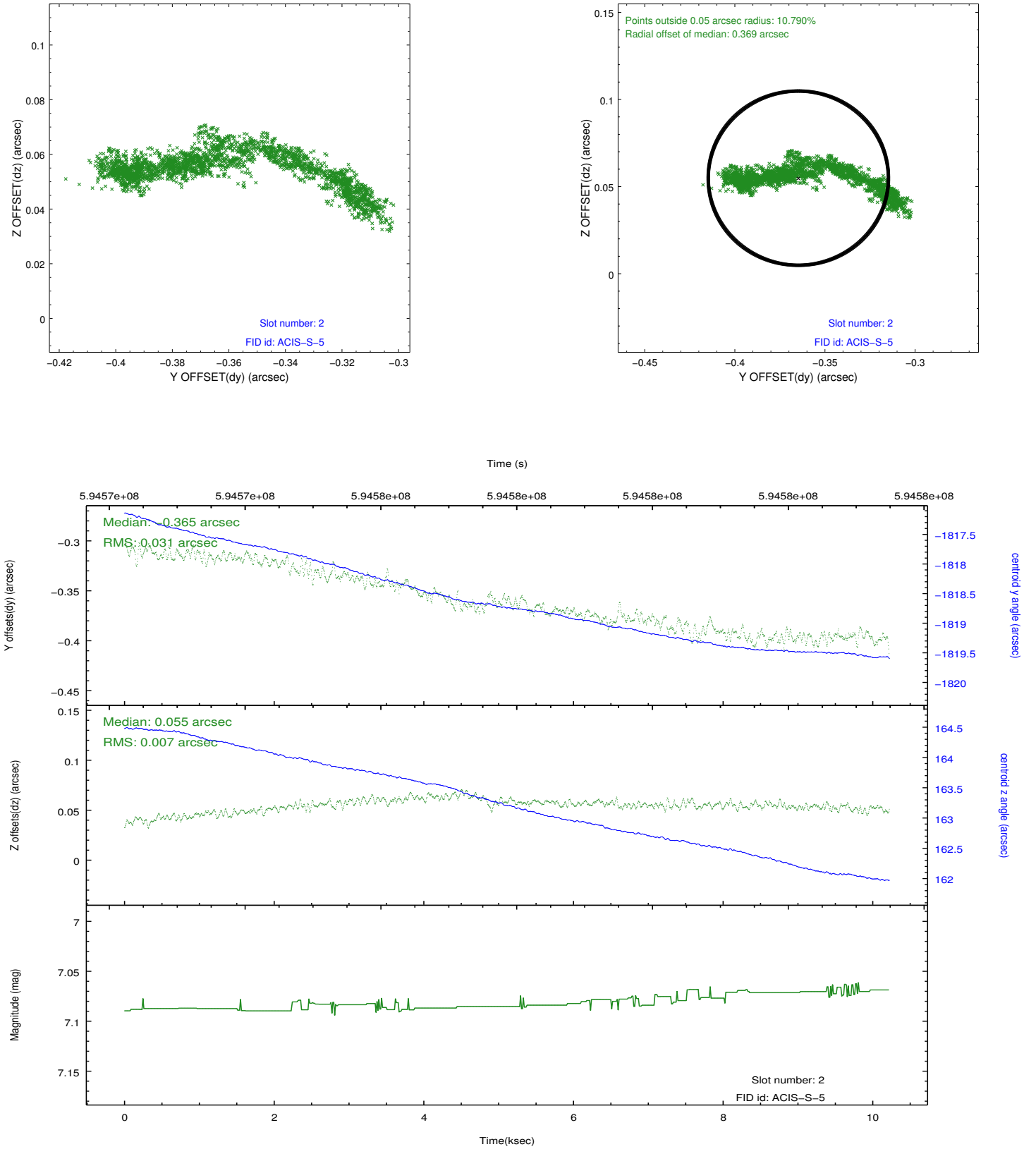
2.5.1 Slot 0



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)	2016.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.062016993999

A.2 Comments