

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19974 - L2 Version 1
Chandra X-Ray Center

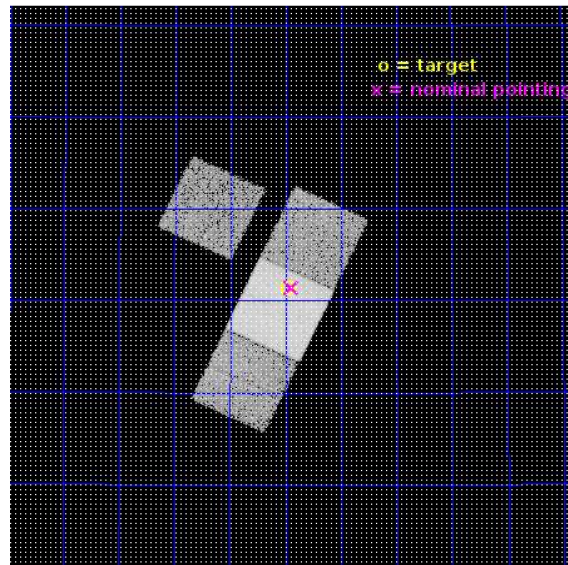
L2 Processing Date : Jan 6 2017

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

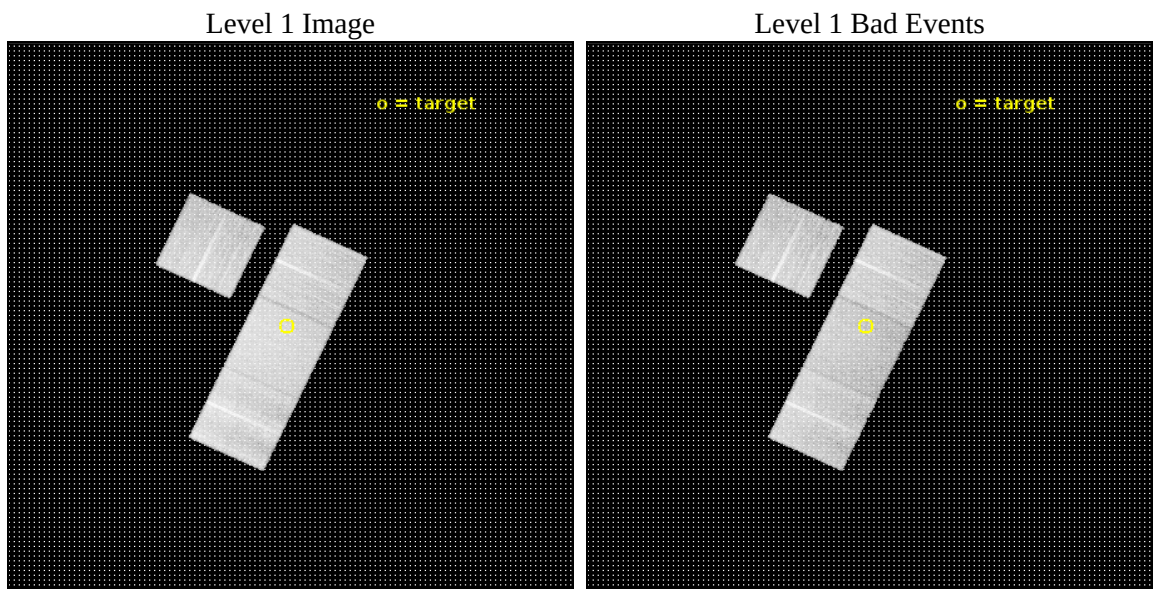
seq_num	703347	Sequence number
obs_id	19974	Observation id
title	A quadruple quasar coincident with a giant Ly-alpha nebula and a protocluster at z=2	Proposal title
observer	Cristian Vignali	Principal investigator
object	SDSSJ084158.47+392121.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.49375	Observer's specified target RA [deg]
dec_targ	39.355833	Observer's specified target Dec [deg]
ra_nom	130.48678093827	Nominal RA [deg]
dec_nom	39.357362969371	Nominal Dec [deg]
roll_nom	115.16106293008	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20109.700154781	Sum of GTIs [s]
livetime	19846.952117713	Livetime [s]
ontime2	20109.700154781	Sum of GTIs [s]
ontime6	20103.417984128	Sum of GTIs [s]
ontime7	20109.700154781	Sum of GTIs [s]
ontime8	20106.559084535	Sum of GTIs [s]
l2events	116175	Number of level 2 events



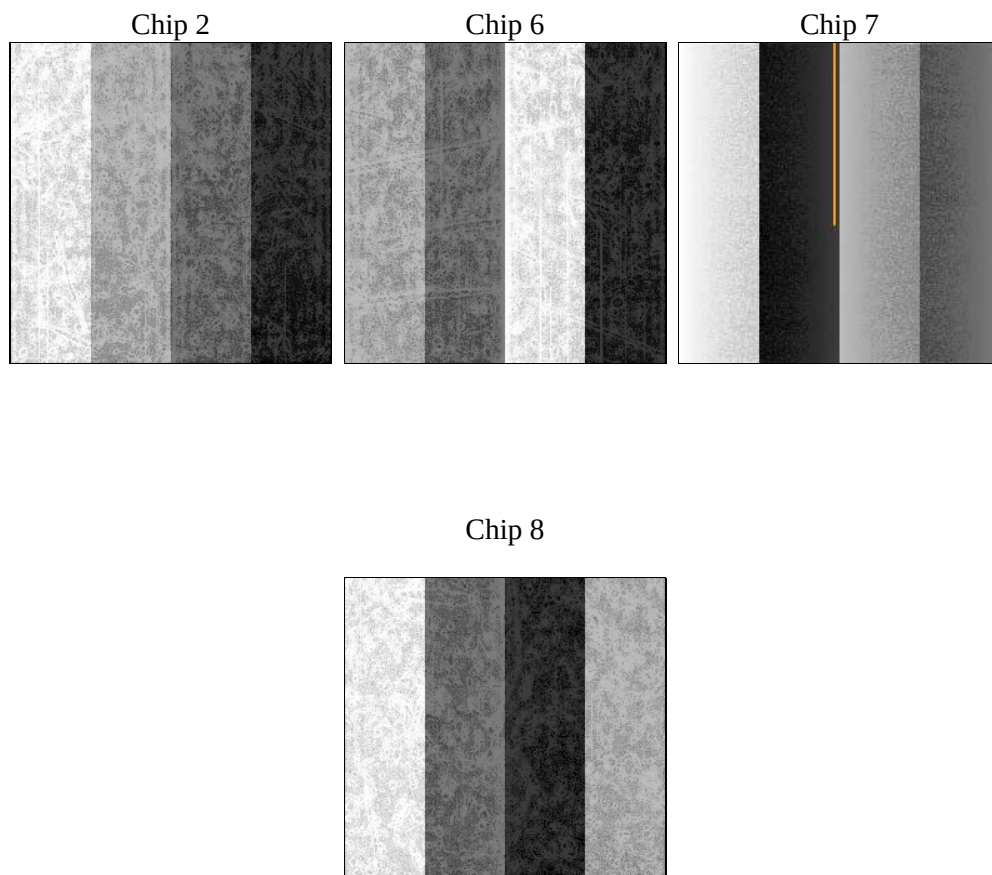
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20109.700154781	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	20109.700154781	Sum of GTIs [s]
date	2017-01-06T06:13:04	Date and time of file creation	ontime6	20103.417984128	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20109.700154781	Sum of GTIs [s]
			ontime8	20106.559084535	Sum of GTIs [s]
			l1events	651743	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 6	ccd 7	ccd 8
level 1 events	141794	146558	180095	183296
rejected events	127616	130398	102845	136938
rejected %	90%	88%	57%	74%

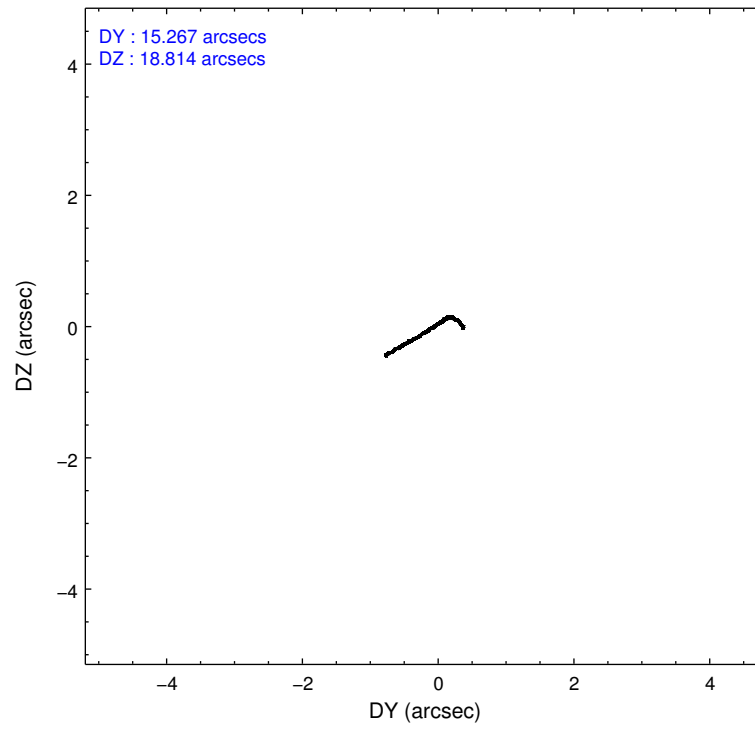
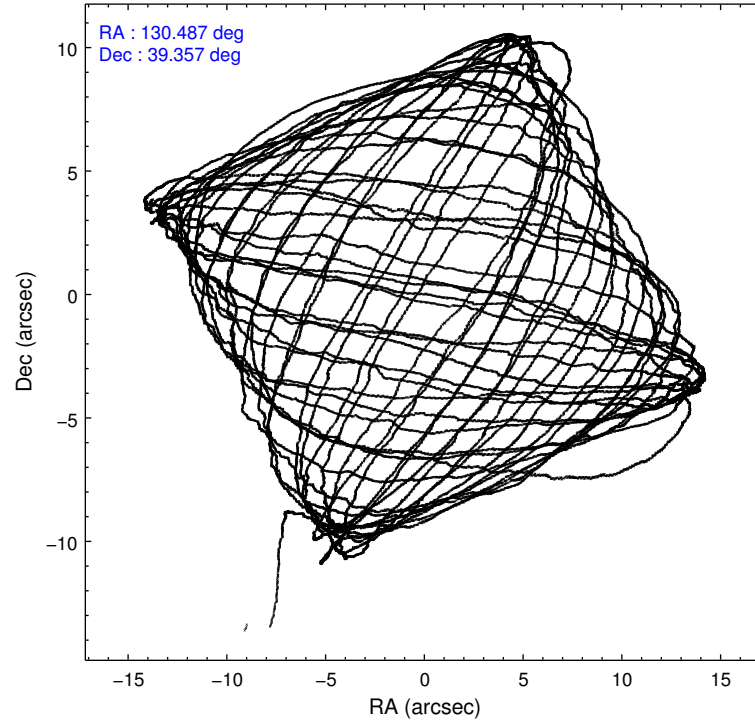
	ccd 2	ccd 6	ccd 7	ccd 8
grade 0 events	5053	5083	5959	13219
	3%	3%	3%	7%
grade 1 events	67	72	216	139
	0%	0%	0%	0%
grade 2 events	3293	4070	16375	11402
	2%	2%	9%	6%
grade 3 events	1443	1472	5784	4870
	1%	1%	3%	2%
grade 4 events	1440	1431	5581	4481
	1%	0%	3%	2%
grade 5 events	5251	6200	17104	9601
	3%	4%	9%	5%
grade 6 events	2953	4106	43557	12390
	2%	2%	24%	6%
grade 7 events	122294	124124	85519	127194
	86%	84%	47%	69%

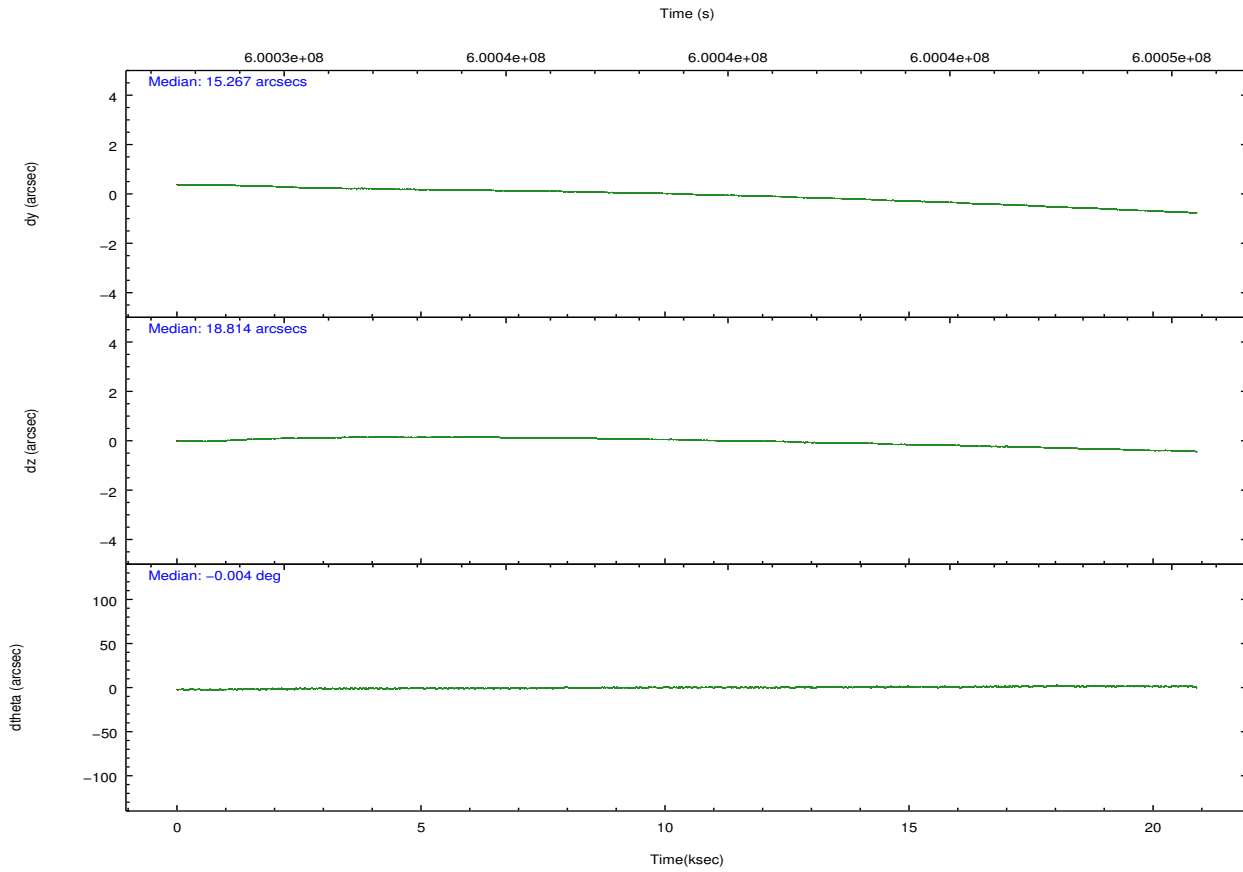
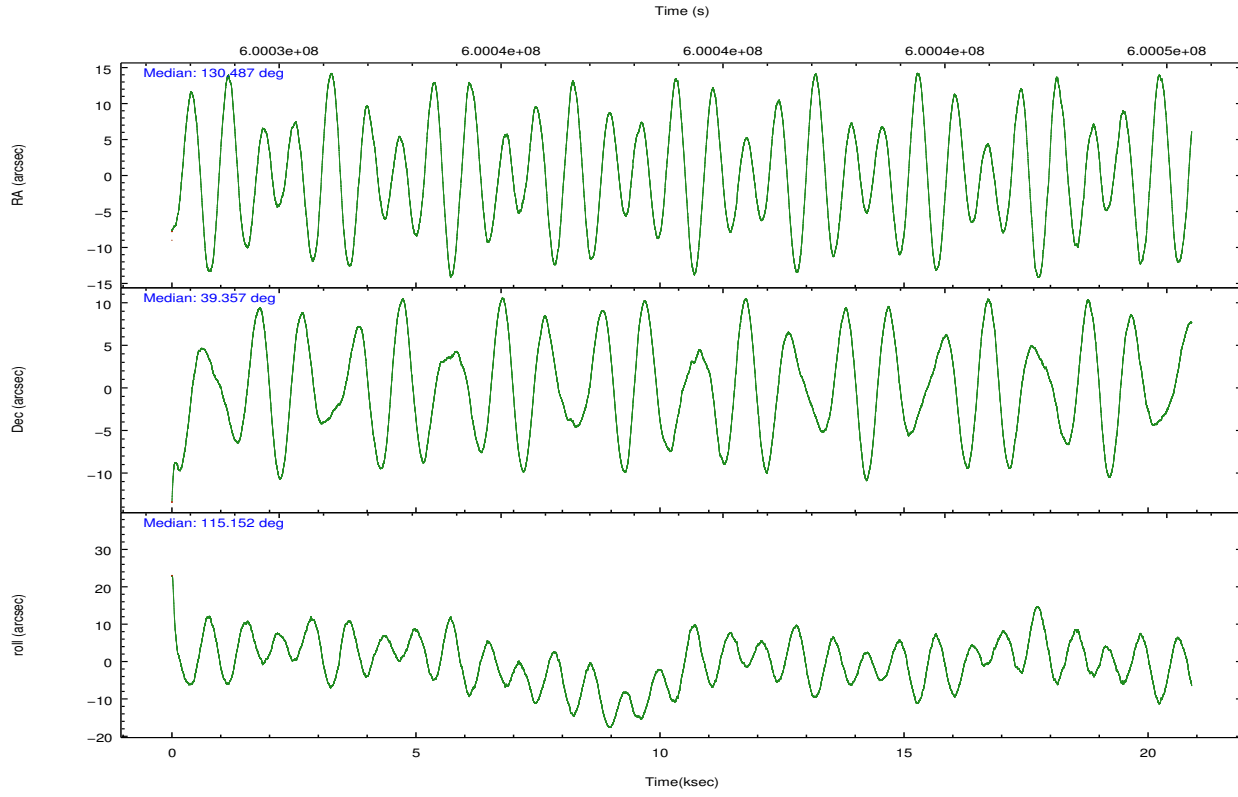
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2678	ACIS-2678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	130.516196	130.4867809382673
[deg] Pointing Dec	39.341996	39.35736296937095
[deg] Pointing Roll	114.985770	115.1610629300842
[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)	600029523.184000	600028078.01222
Observation start date	2017-01-05T18:50:54	2017-01-05T18:27:58
[s] Observation end time (MET)	600049523.184000	600050579.8385201
Observation end date	2017-01-06T00:24:14	2017-01-06T00:42:59
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O2	Y
CCD I3 on	O1	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



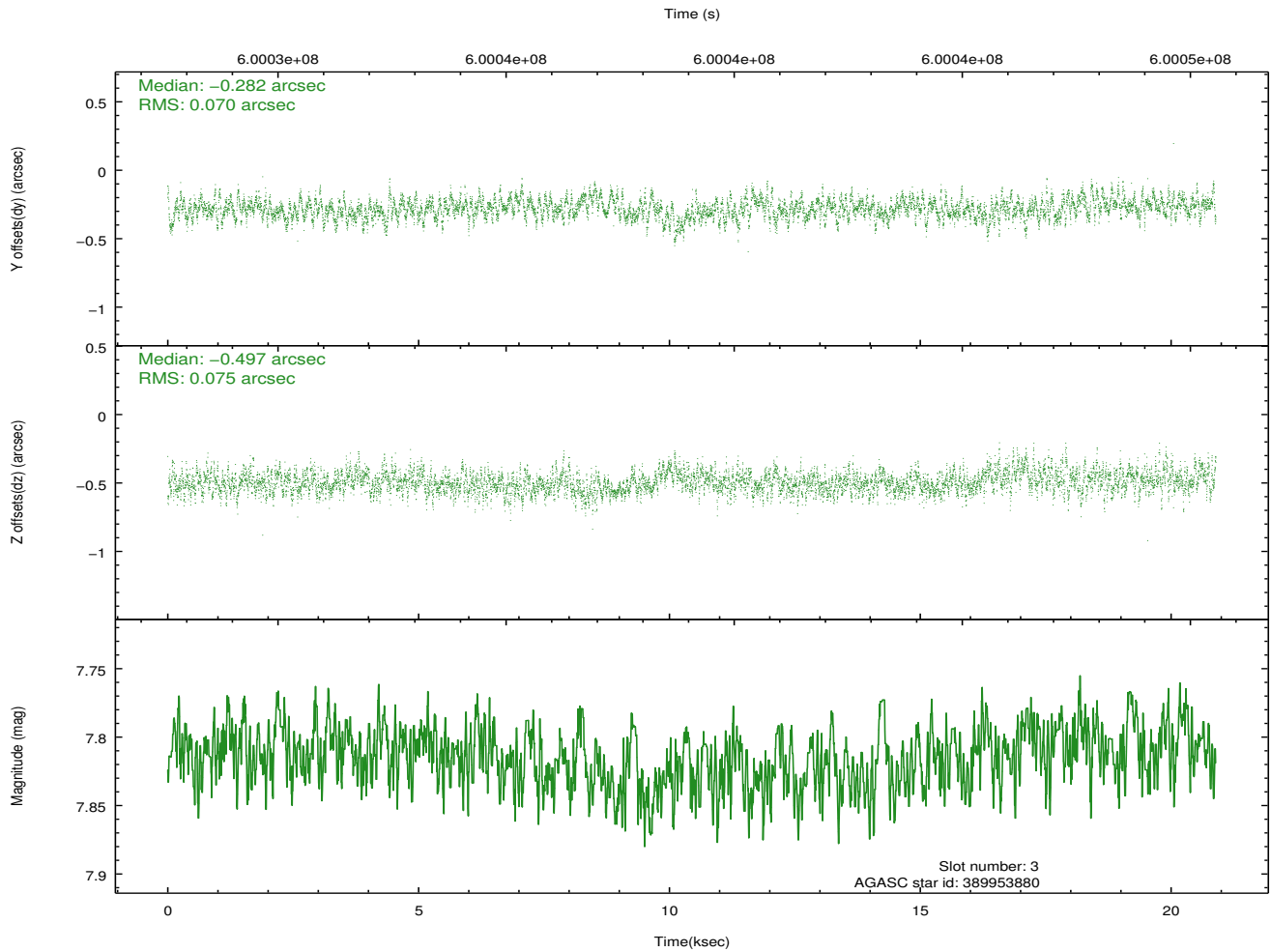
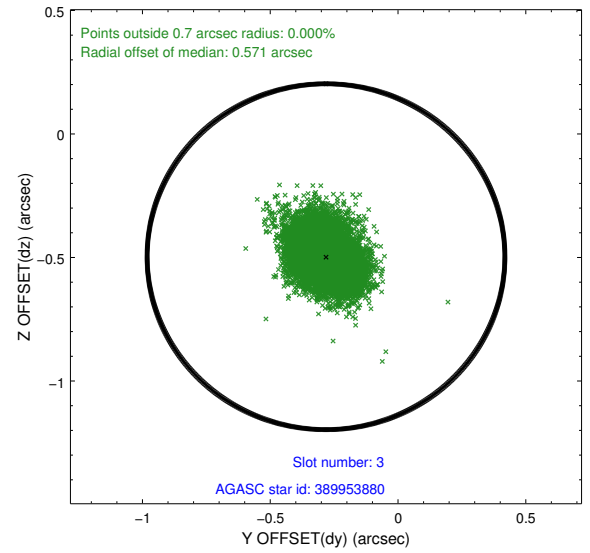
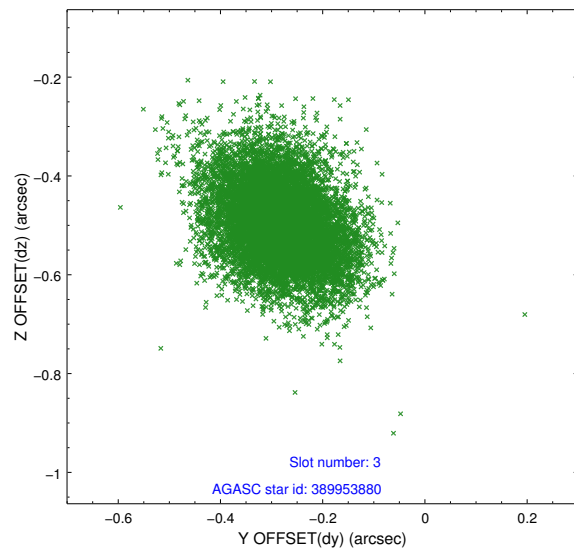


Slot Statistics

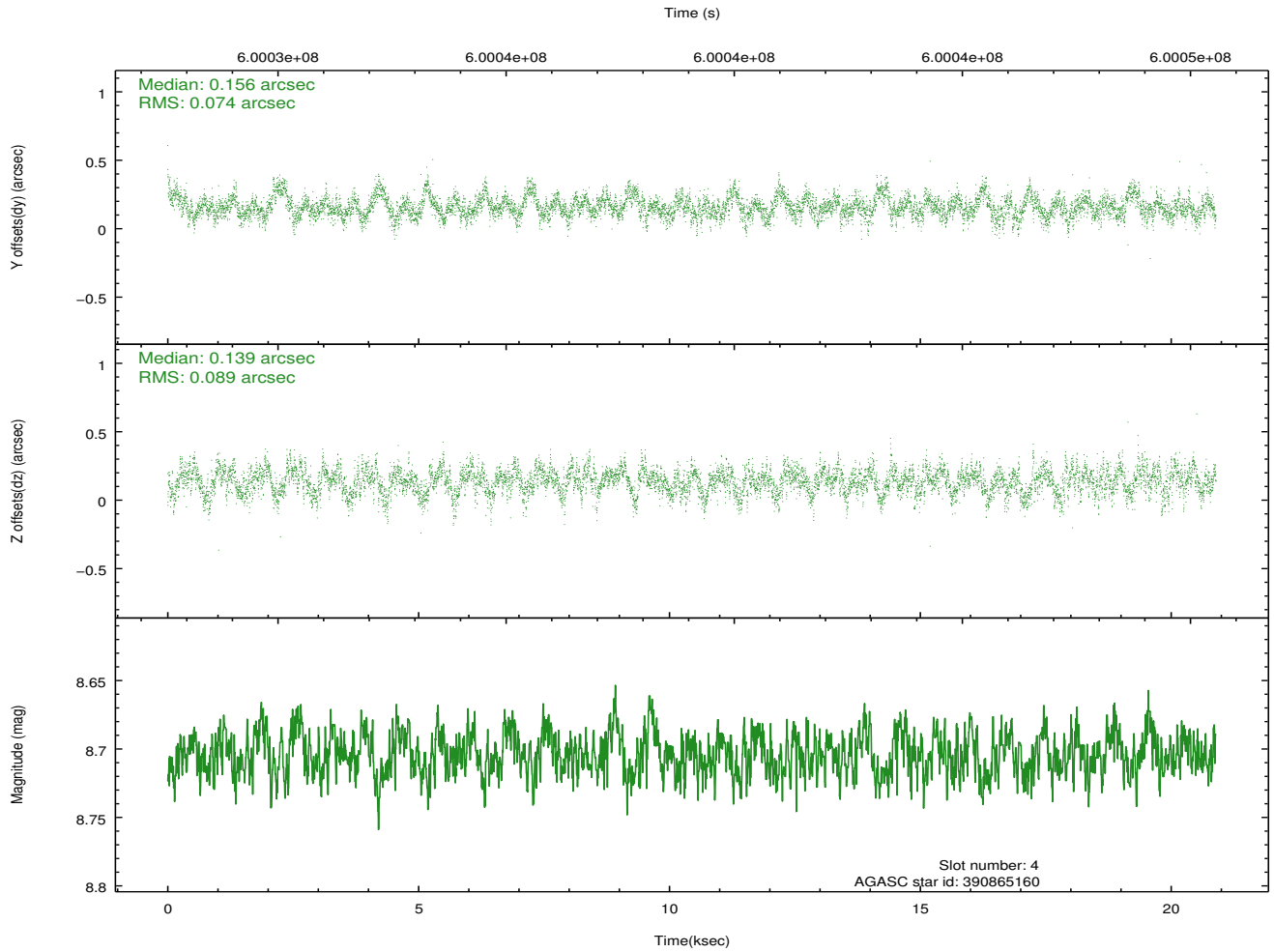
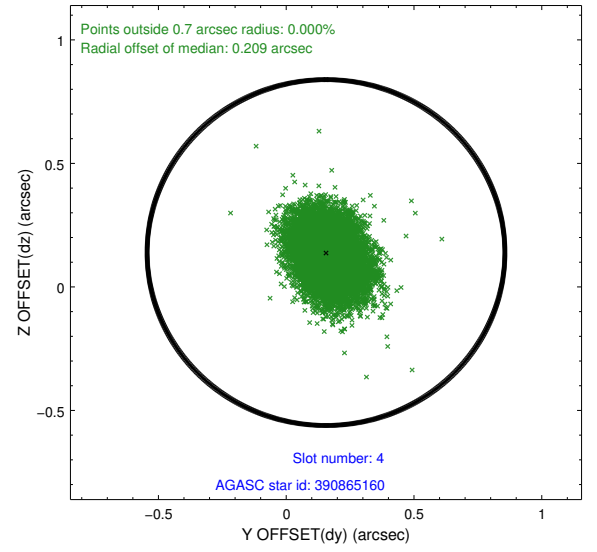
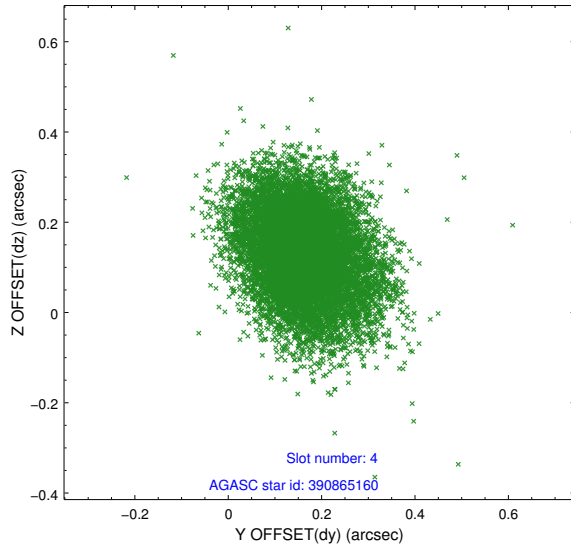
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	5097	-0.198	-0.115	0.012	0.031	0.000000	0.000000	-768.35	-1740.36
1	FID		ACIS-S-4	7.17	5097	0.468	0.126	0.008	0.015	0.000000	0.000000	2145.51	168.18
2	FID		ACIS-S-5	7.16	5097	-0.301	-0.003	0.015	0.035	0.000000	0.000000	-1821.08	161.93
3	GUIDE	used	389953880	7.81	10186	-0.282	-0.497	0.107	0.180	129.484084	39.644812	2211.23	2125.94
4	GUIDE	used	390865160	8.70	10183	0.156	0.139	0.121	0.202	130.458997	39.150226	-557.63	436.72
5	GUIDE	used	390866656	7.99	10190	-0.004	0.313	0.098	0.171	131.112779	39.862716	1008.25	-2287.93
6	GUIDE	used	390867952	8.92	10186	-0.004	0.210	0.109	0.182	130.507524	39.576875	777.07	-335.12
7	GUIDE	used	390870832	6.65	10192	0.130	-0.160	0.102	0.169	130.673915	39.061455	-1100.78	26.60

2.4 Star Slots

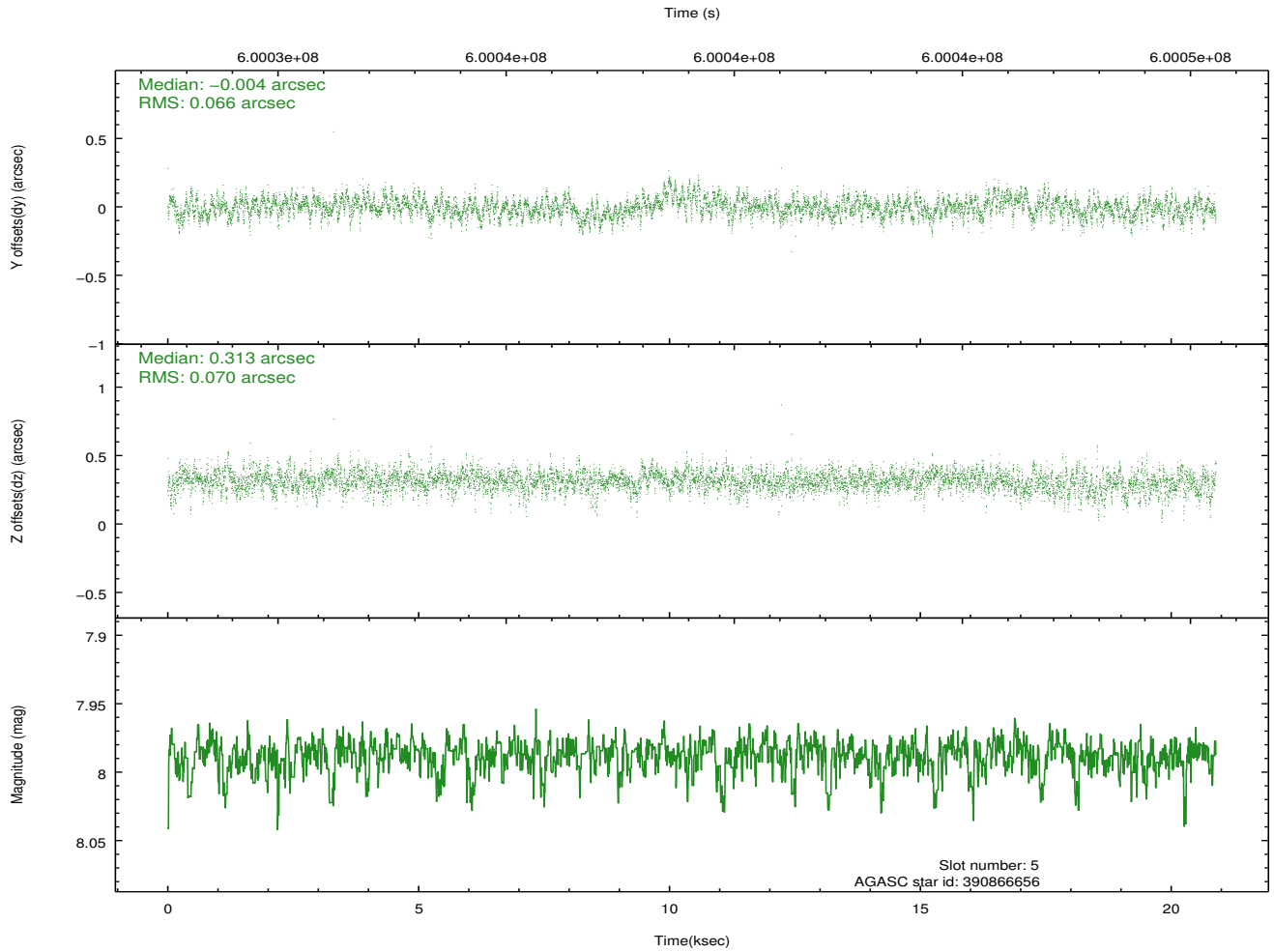
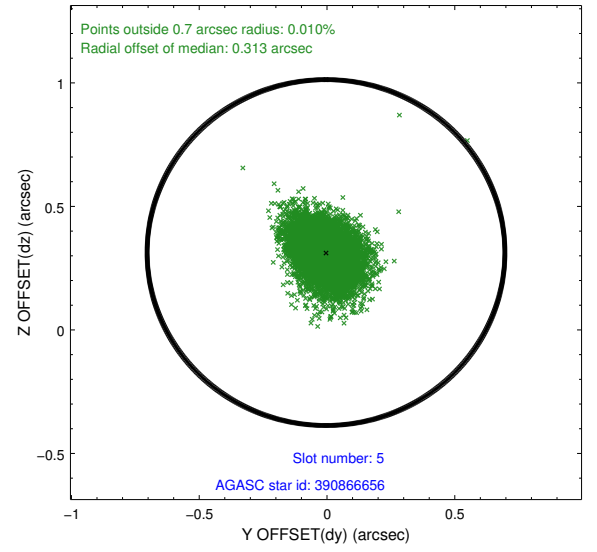
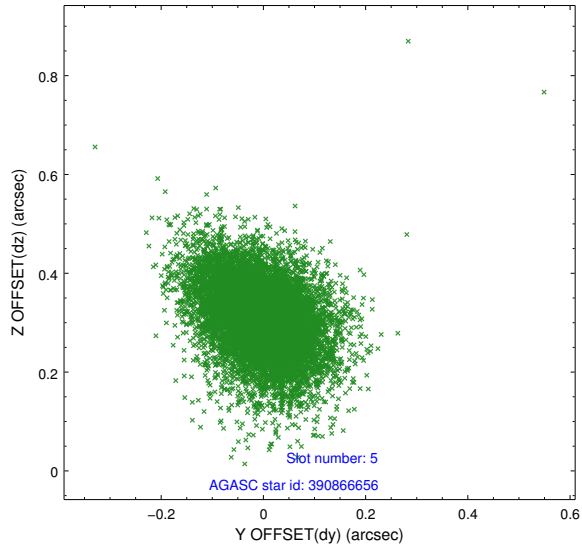
2.4.1 Slot 3



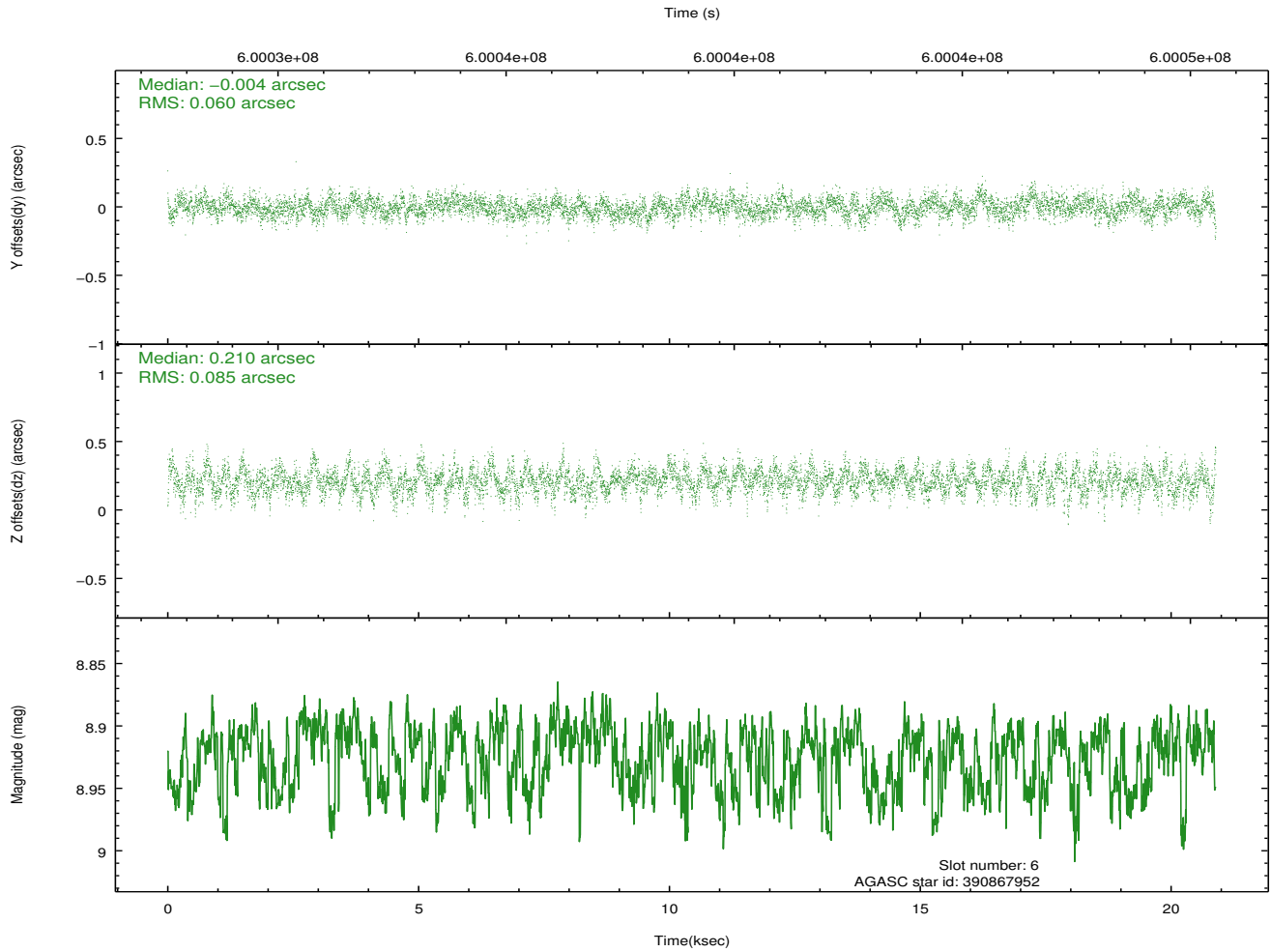
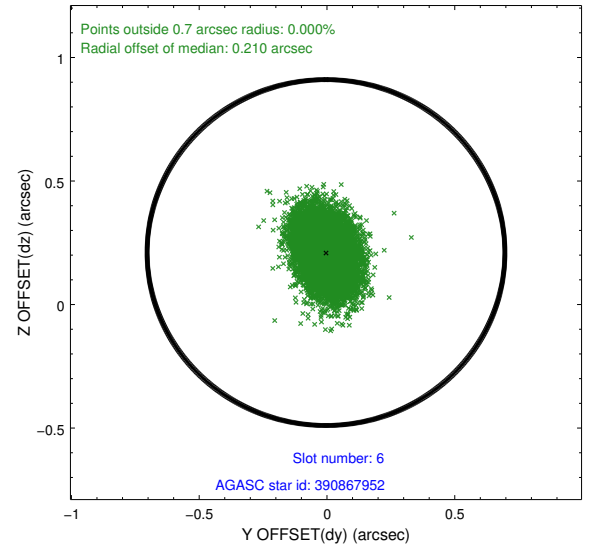
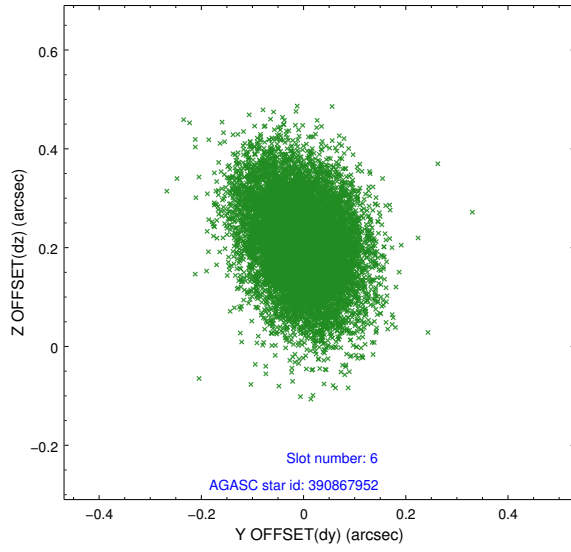
2.4.2 Slot 4



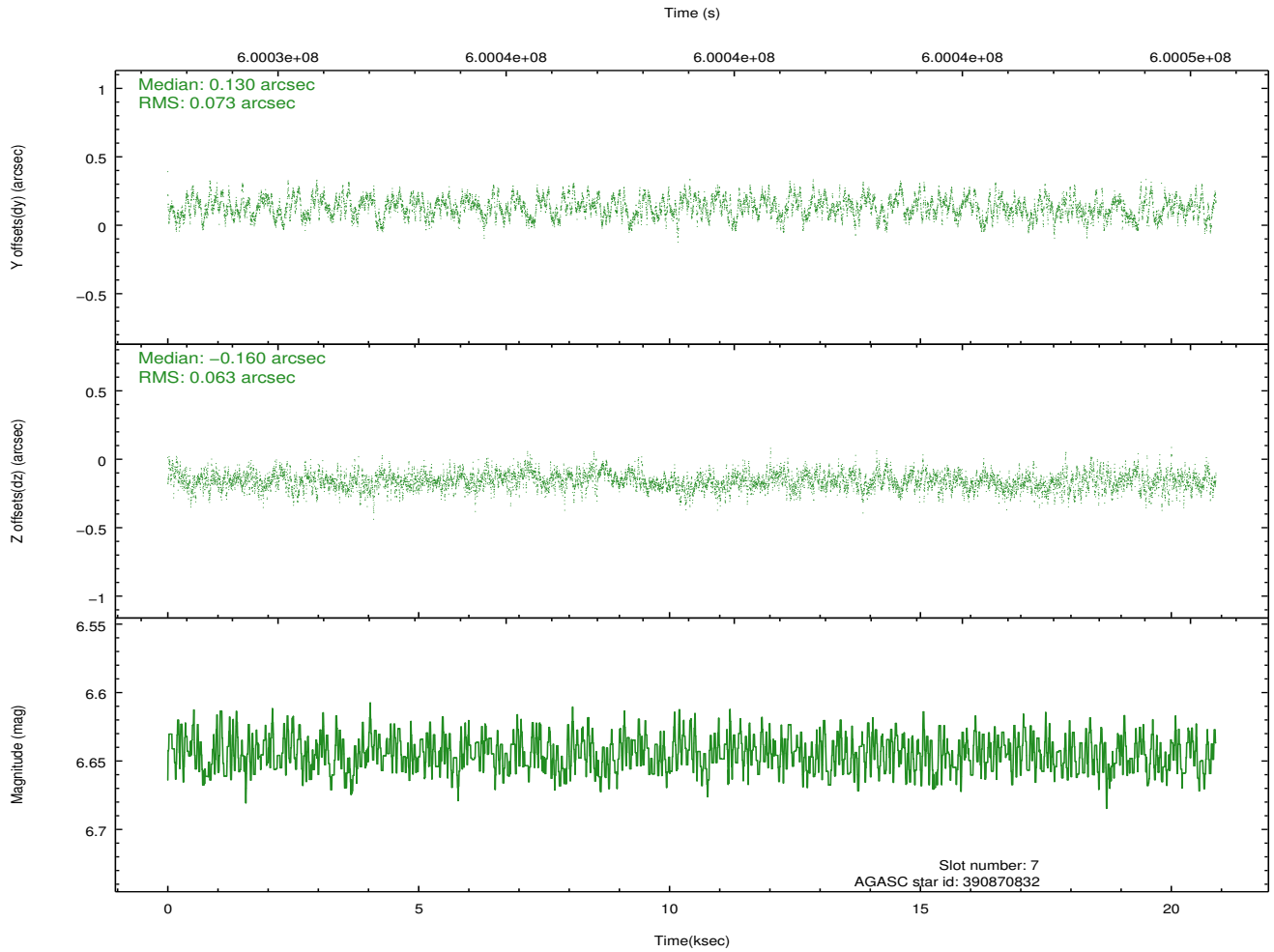
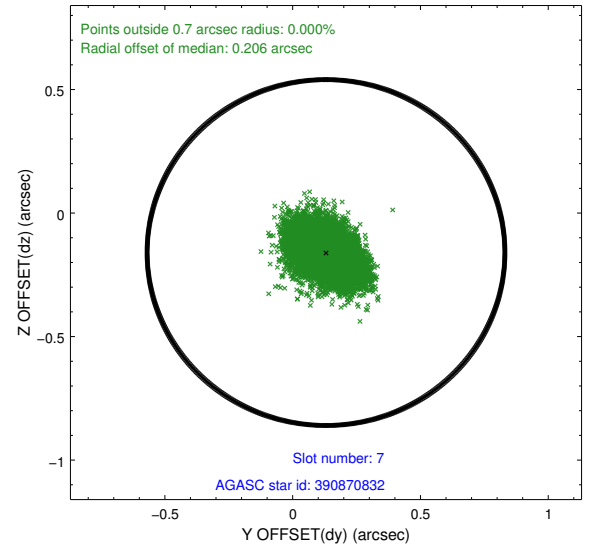
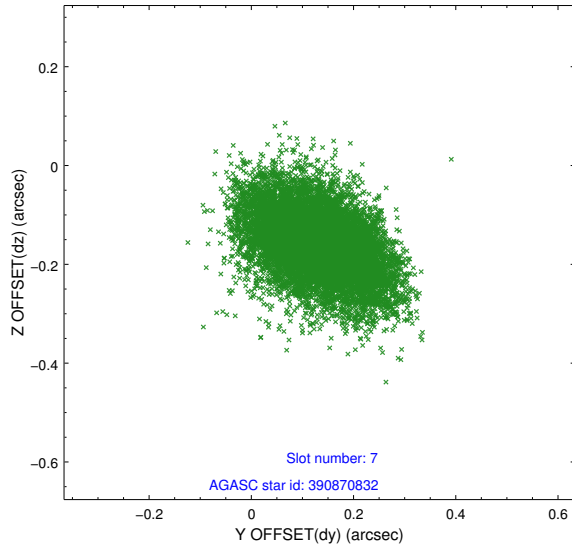
2.4.3 Slot 5



2.4.4 Slot 6

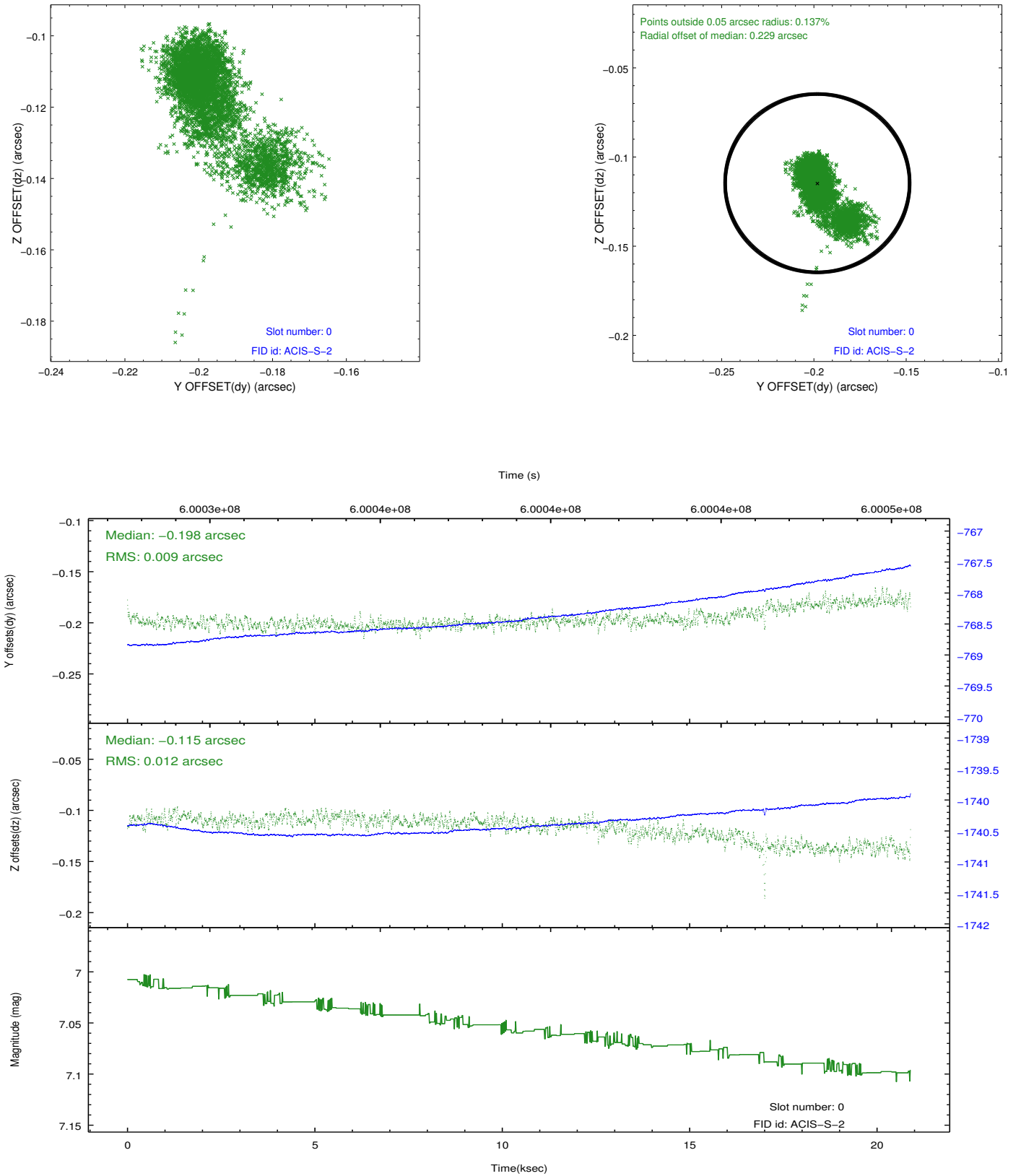


2.4.5 Slot 7

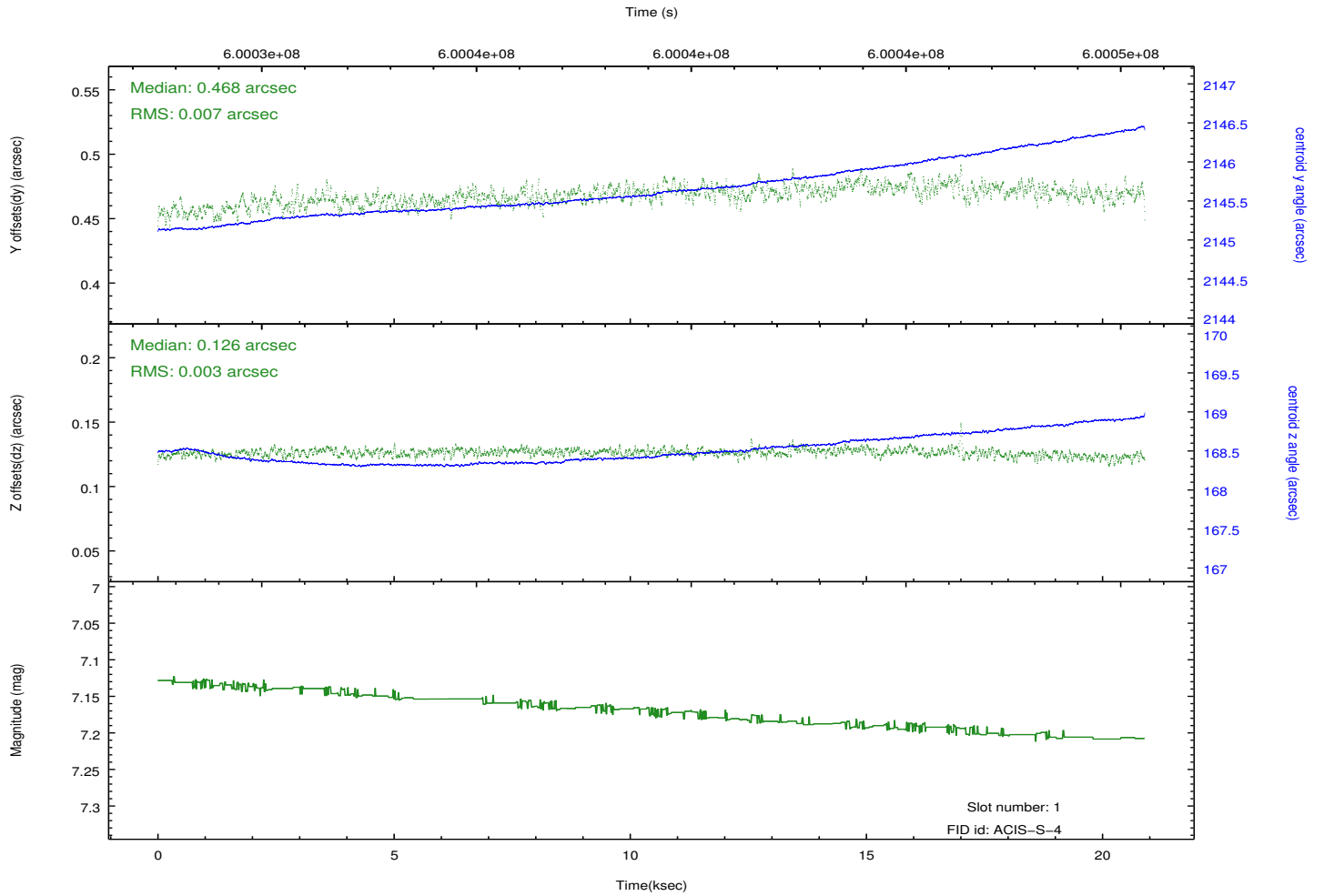
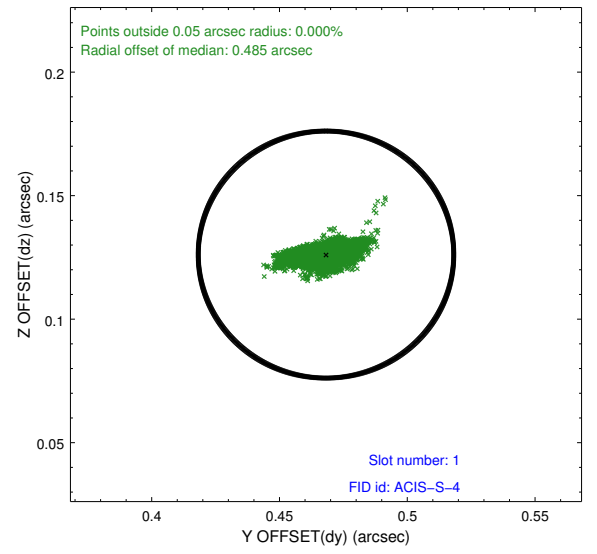
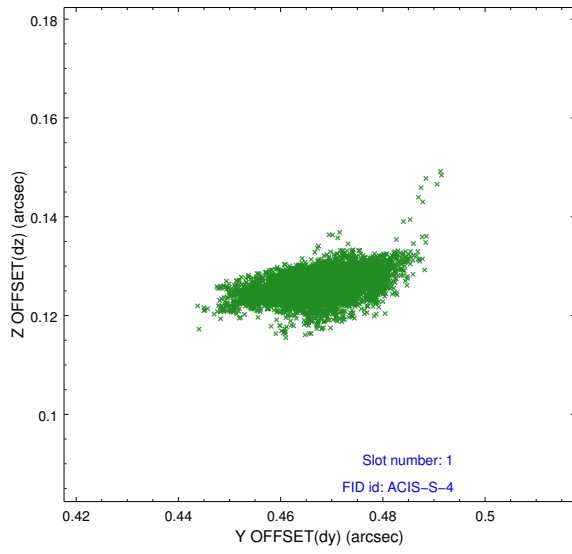


2.5 FID Slots

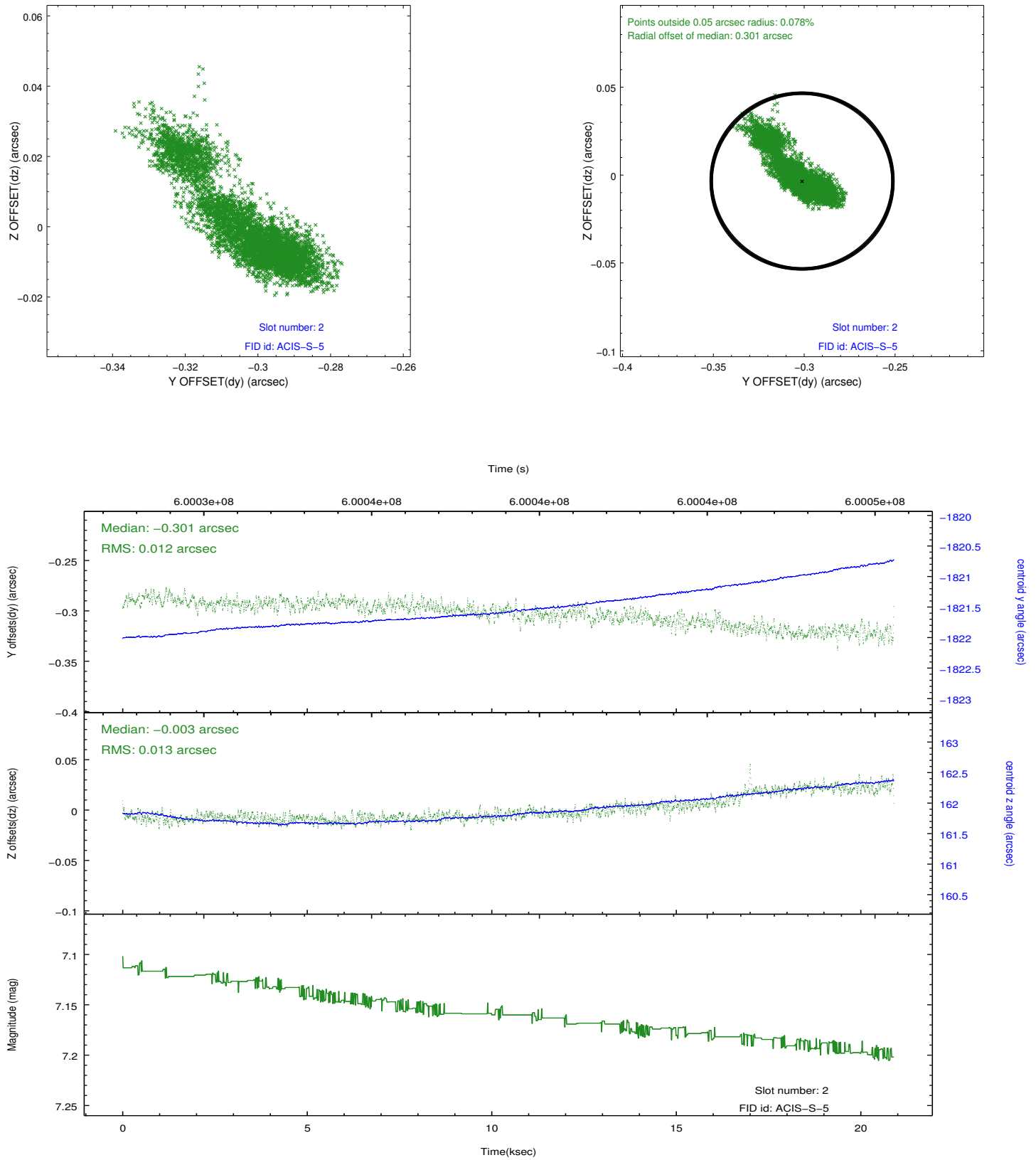
2.5.1 Slot 0



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)	2017.01.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.109700154781

A.2 Comments