

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21479 - L2 Version 1
Chandra X-Ray Center

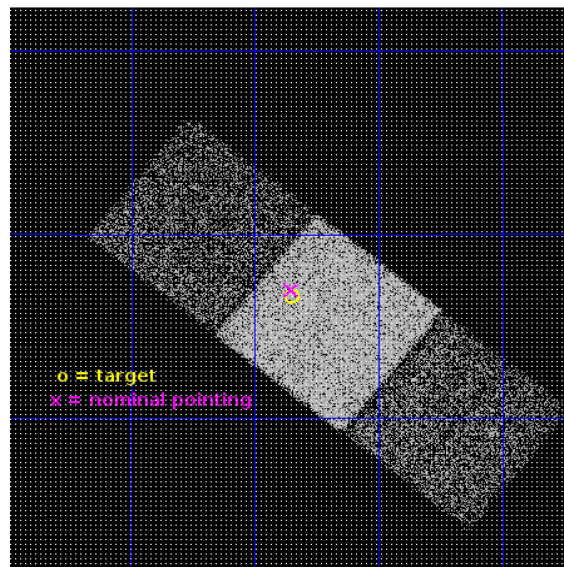
L2 Processing Date : Nov 7 2018

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

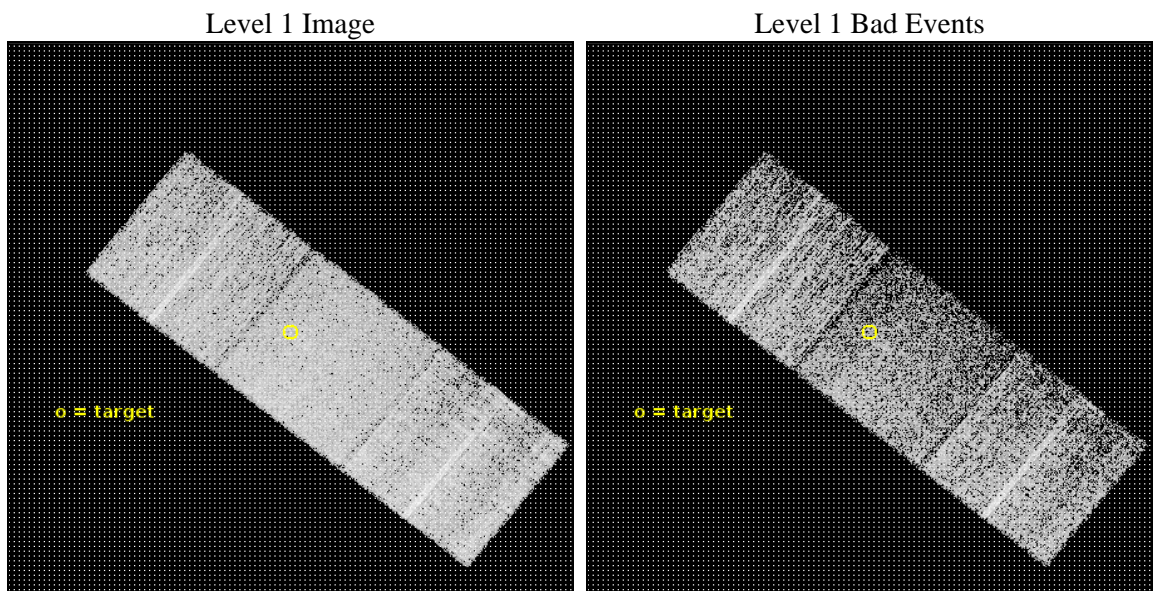
seq_num	703775	Sequence number
obs_id	21479	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	NGC 4525	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.462917	Observer's specified target RA [deg]
dec_targ	30.277556	Observer's specified target Dec [deg]
ra_nom	188.46311200306	Nominal RA [deg]
dec_nom	30.283190127114	Nominal Dec [deg]
roll_nom	38.67657178306	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8109.6000624895	Sum of GTIs [s]
livetime	8003.6421674724	Livetime [s]
ontime6	8109.6000624895	Sum of GTIs [s]
ontime7	8109.6000624895	Sum of GTIs [s]
ontime8	8109.6000624895	Sum of GTIs [s]
l2events	45424	Number of level 2 events



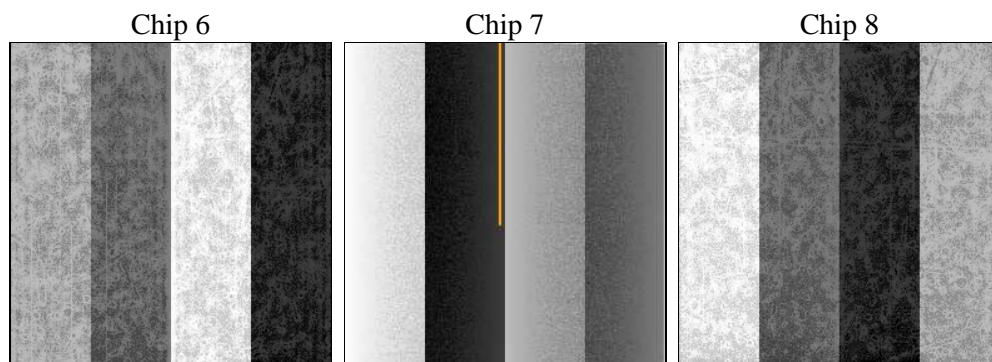
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	8109.6000624895	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	8109.6000624895	Sum of GTIs [s]
date	2018-11-07T18:46:01	Date and time of file creation	ontime7	8109.6000624895	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	8109.6000624895	Sum of GTIs [s]
			l1events	223000	Number of level 1 events

2.1.4 Events

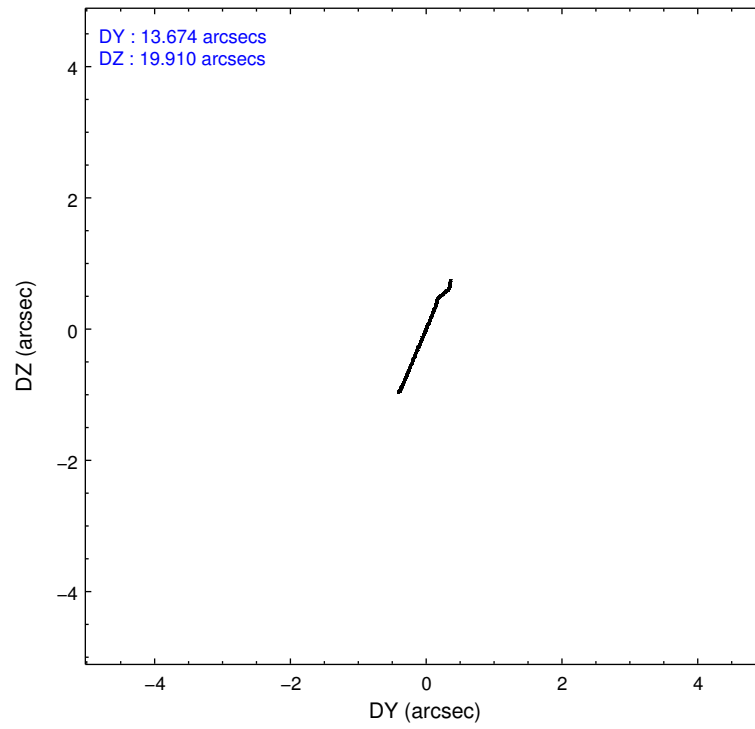
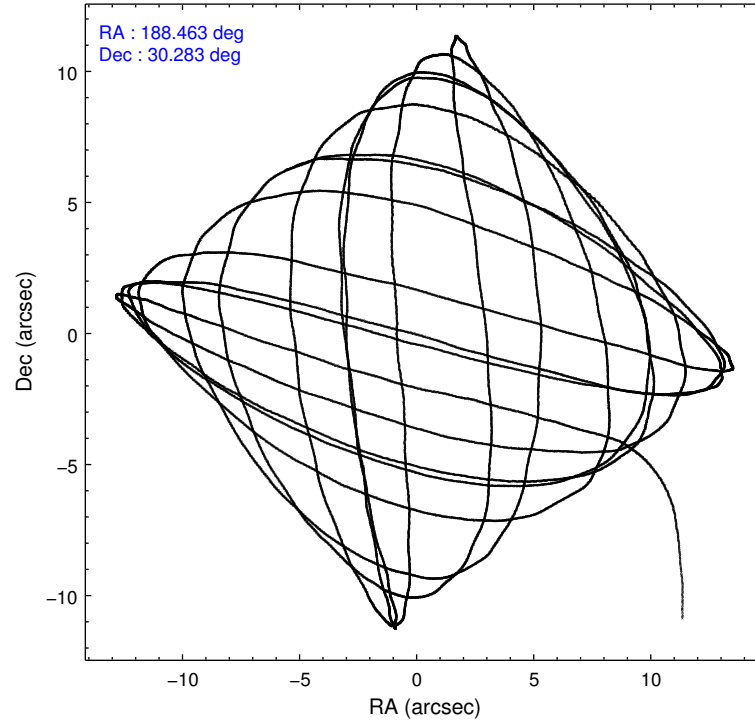
	ccd 6	ccd 7	ccd 8
level 1 events	65220	77283	80497
rejected events	58466	43817	59584
rejected %	89%	56%	74%

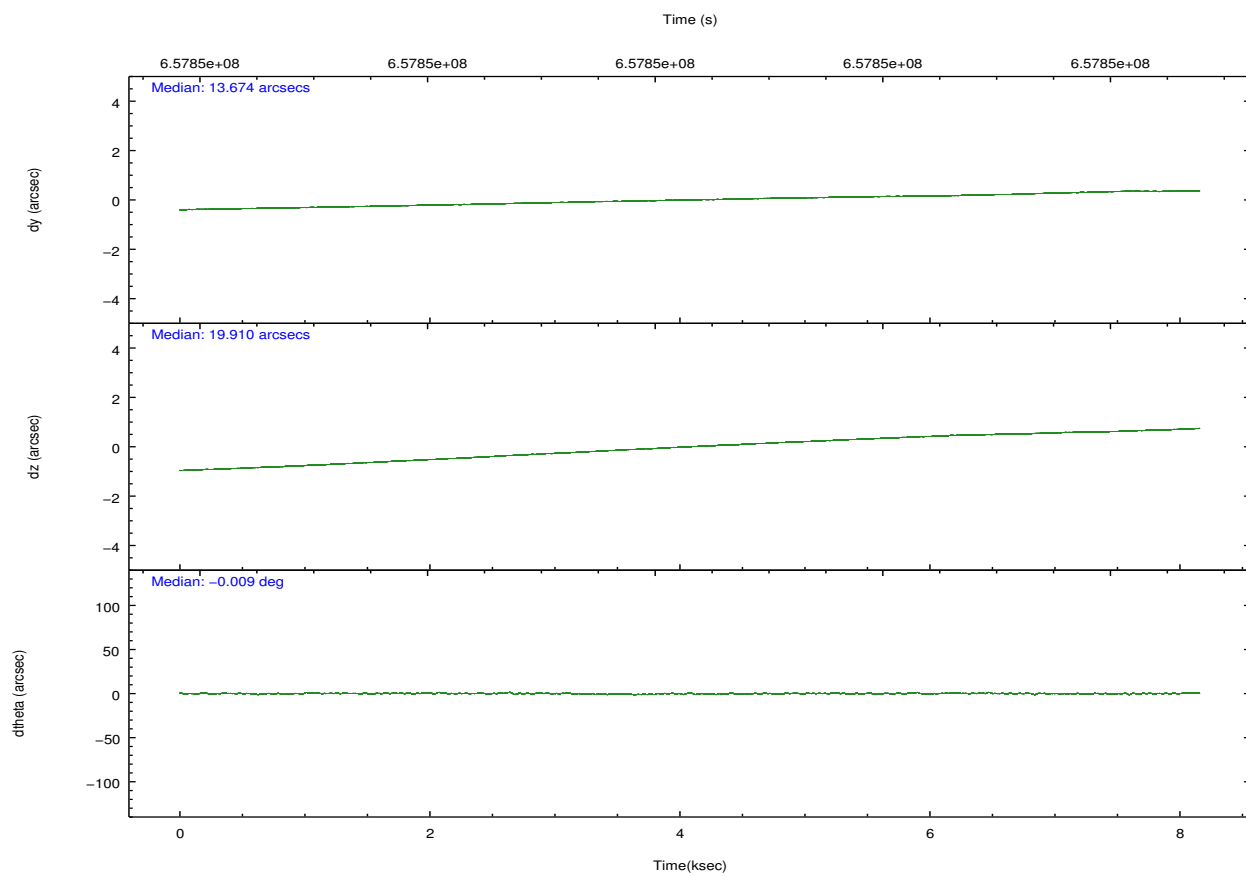
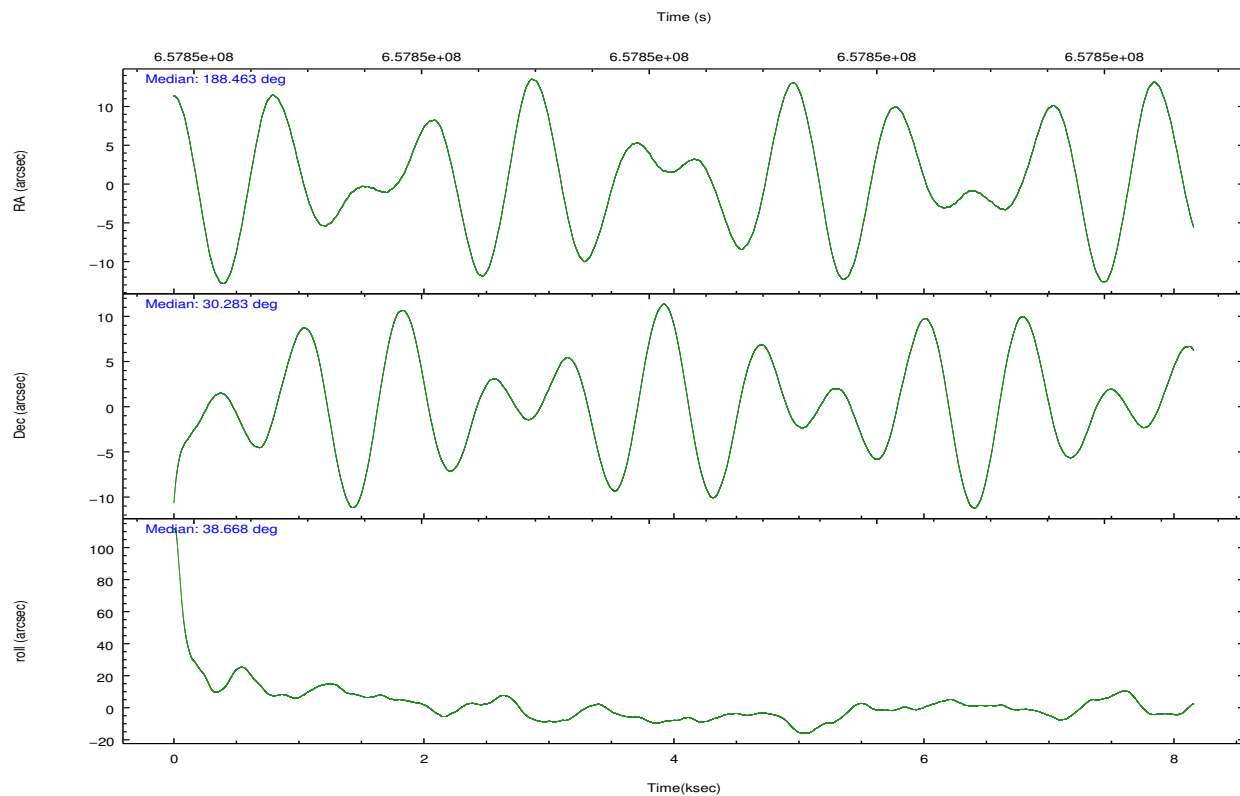
	ccd 6	ccd 7	ccd 8
grade 0 events	1979	2804	6056
	3%	3%	7%
grade 1 events	27	115	50
	0%	0%	0%
grade 2 events	1737	6955	4855
	2%	8%	6%
grade 3 events	610	2632	2201
	0%	3%	2%
grade 4 events	660	2526	2092
	1%	3%	2%
grade 5 events	2565	7486	4211
	3%	9%	5%
grade 6 events	1774	18571	5720
	2%	24%	7%
grade 7 events	55868	36194	55312
	85%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	188.451931	188.4631120030604	CCD I2 on	N	N
[deg] Pointing Dec	30.257501	30.28319012711372	CCD I3 on	N	N
[deg] Pointing Roll	38.525436	38.6765717830602	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	O1	Y
[s] Observation start time (MET)	657846401.184000	657845642.3985699	CCD S5 on	N	N
Observation start date	2018-11-05T23:05:32	2018-11-05T22:54:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	657854401.184000	657854836.13662	On-chip summing requested	N	N
Observation end date	2018-11-06T01:18:52	2018-11-06T01:27:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



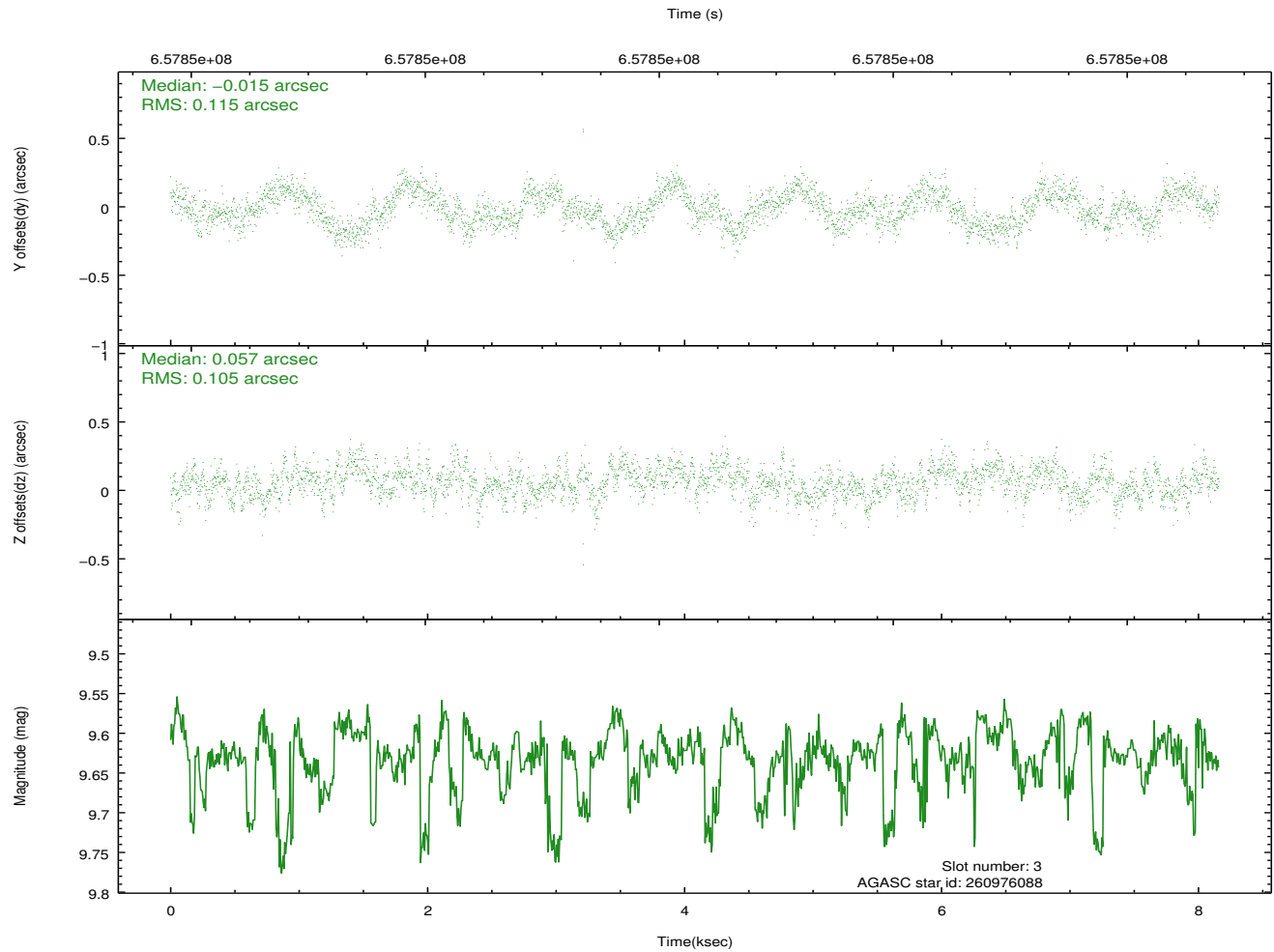
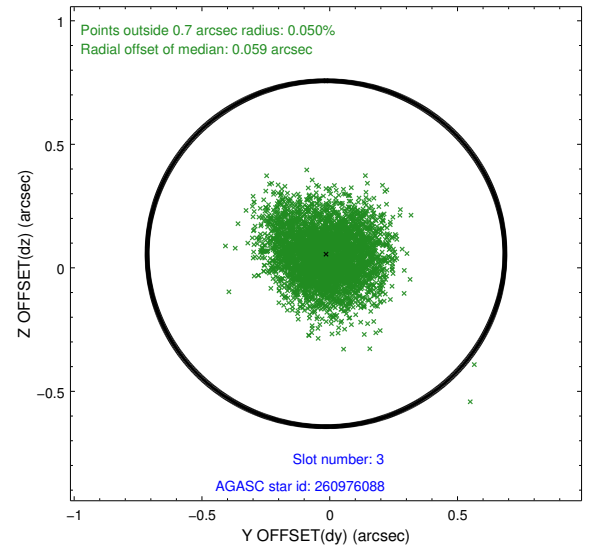
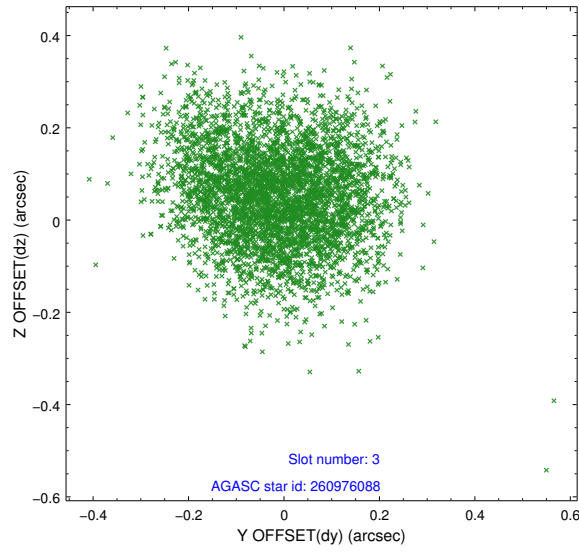


Slot Statistics

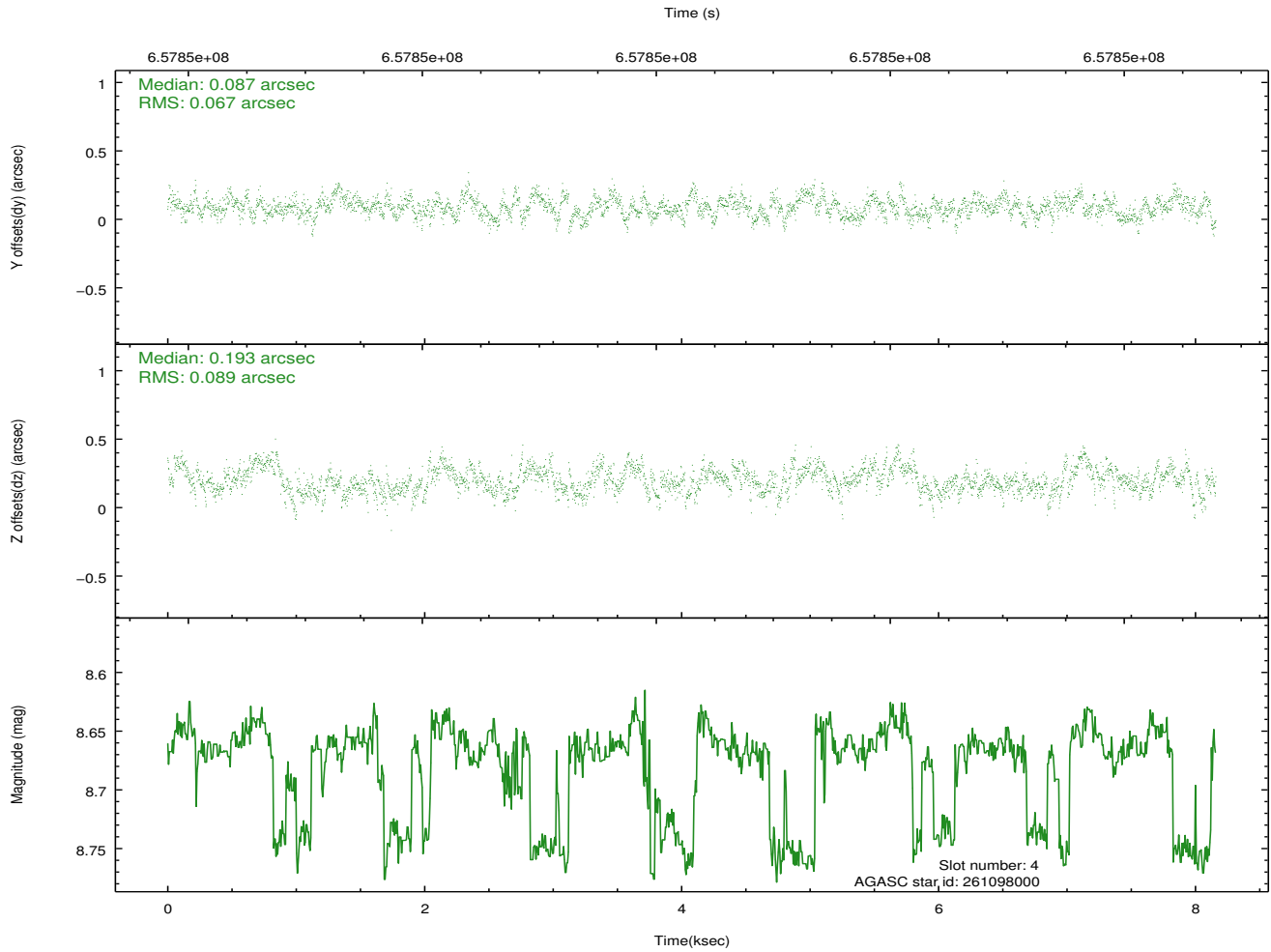
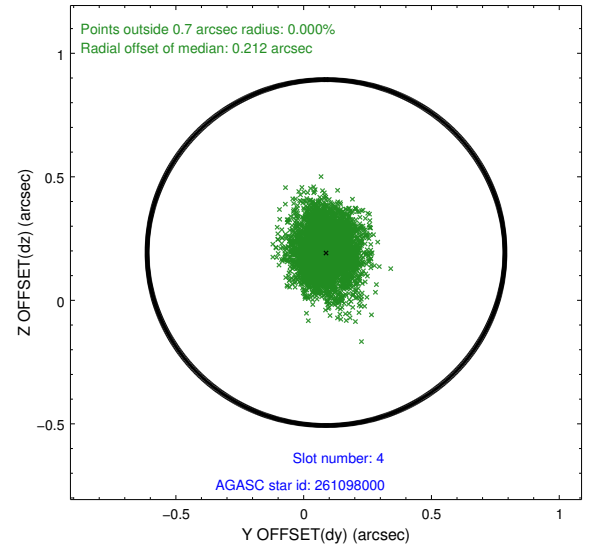
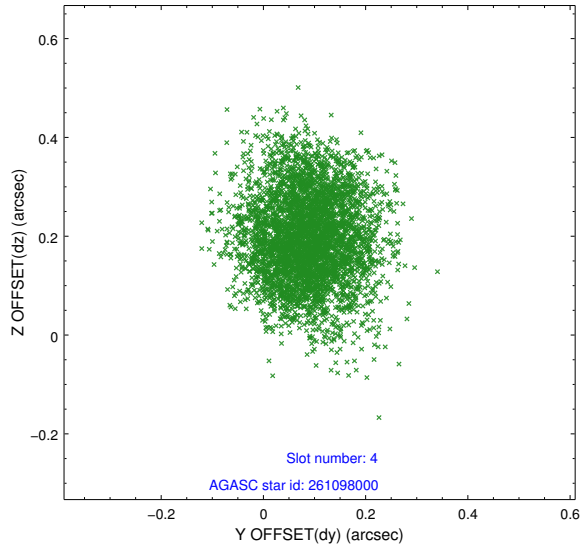
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1990	1.000	0.213	-0.131	0.018	0.026	0.000000	0.000000	929.76	-1737
1	FID		ACIS-S-5	7.19	1990	1.000	-0.544	0.063	0.015	0.025	0.000000	0.000000	-1819.73	159
2	FID		ACIS-S-6	7.34	1990	1.000	0.314	0.079	0.027	0.049	0.000000	0.000000	394.51	804
3	GUIDE	used	260976088	9.63	3973	1.000	-0.015	0.057	0.167	0.260	188.028229	29.918108	-1793.67	-130
4	GUIDE	used	261098000	8.67	3978	1.000	0.087	0.193	0.119	0.192	188.989295	29.926853	572.42	-1970
5	GUIDE	used	331364336	8.74	3975	1.000	-0.036	-0.077	0.129	0.216	188.751385	30.192665	583.52	-761
6	GUIDE	used	331364592	8.54	3980	1.000	0.069	-0.092	0.111	0.172	188.372024	30.040339	-681.37	-455
7	GUIDE	used	331365416	9.36	3972	1.000	-0.100	-0.086	0.145	0.234	188.942907	30.192576	1051.53	-1130

2.4 Star Slots

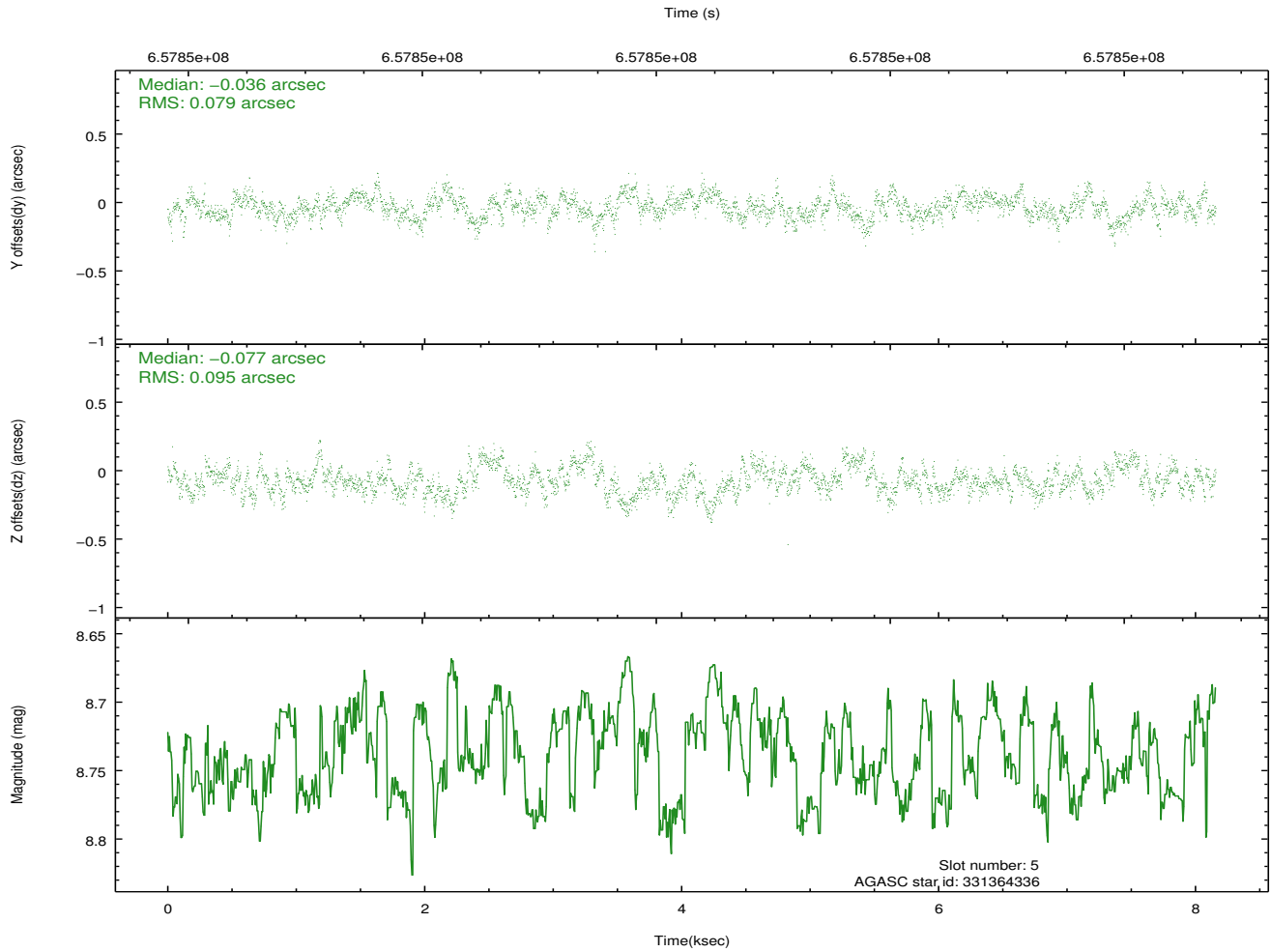
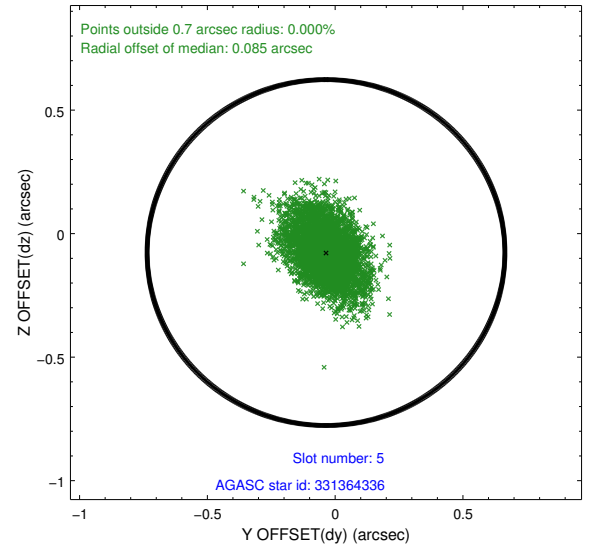
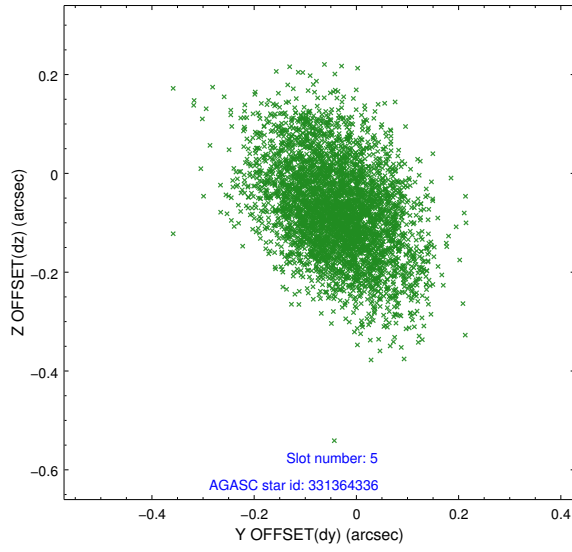
2.4.1 Slot 3



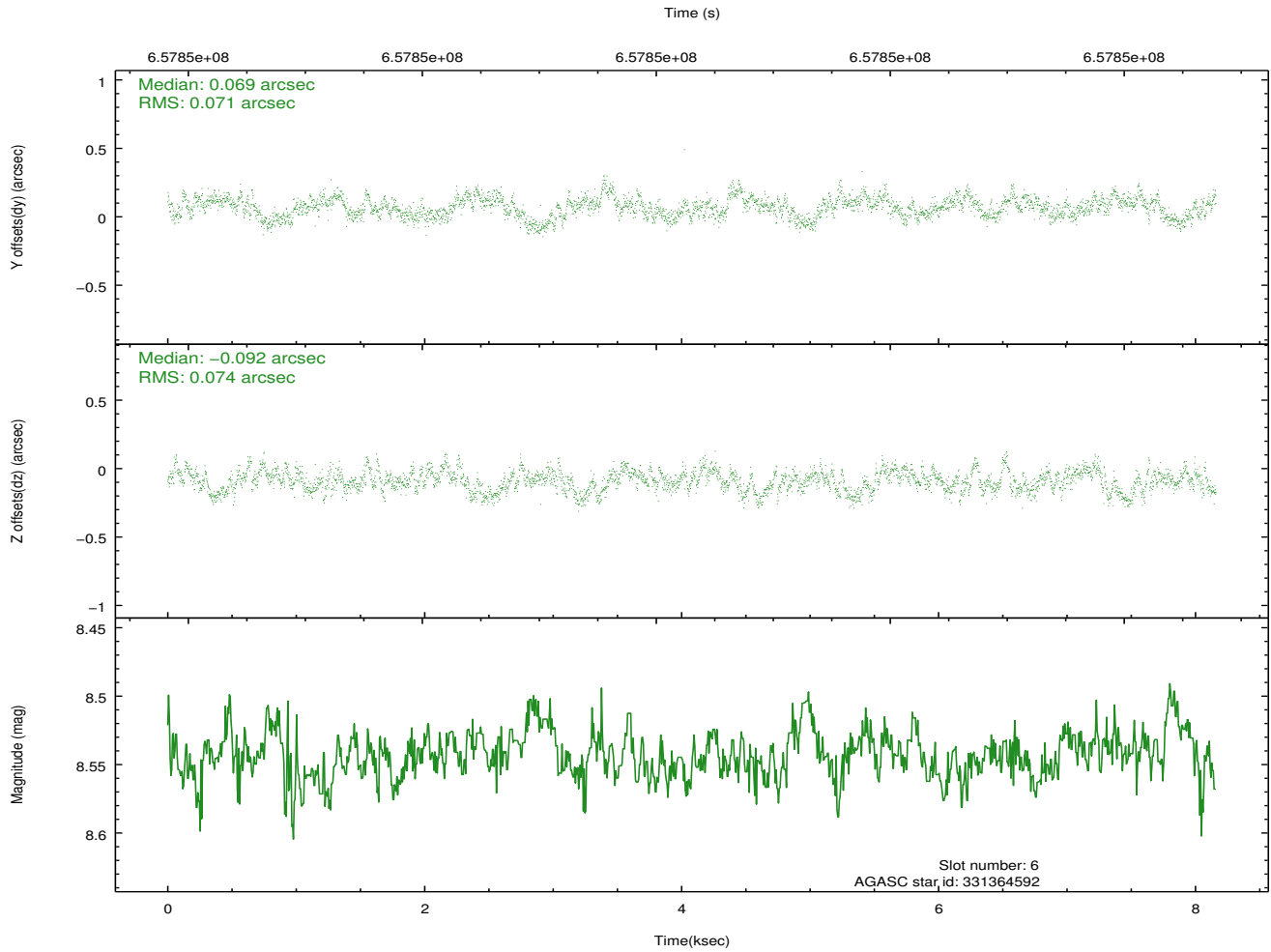
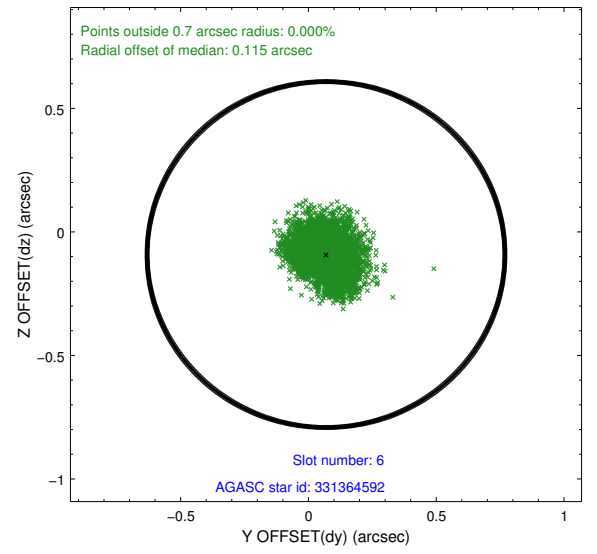
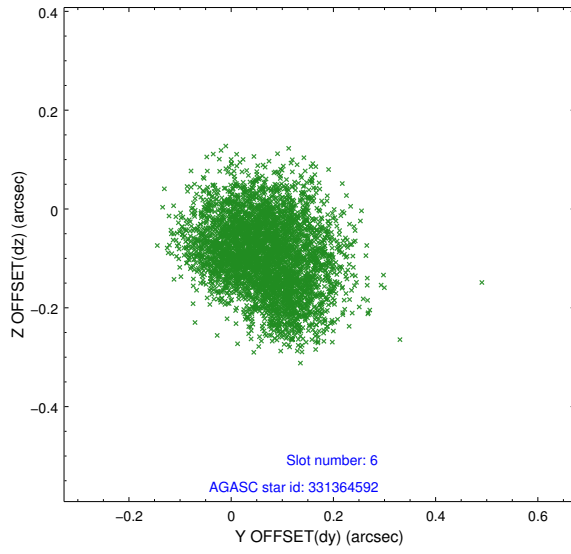
2.4.2 Slot 4



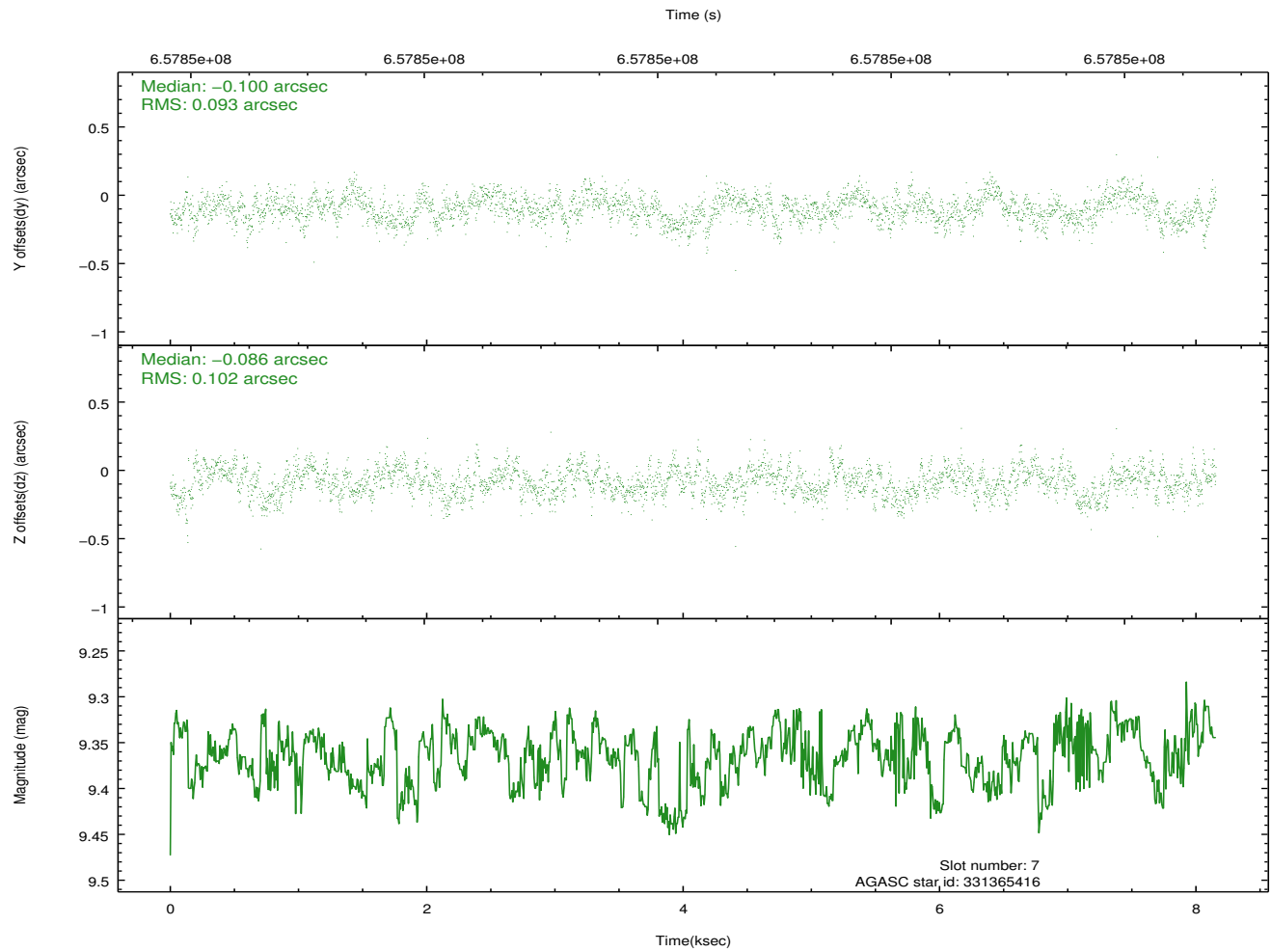
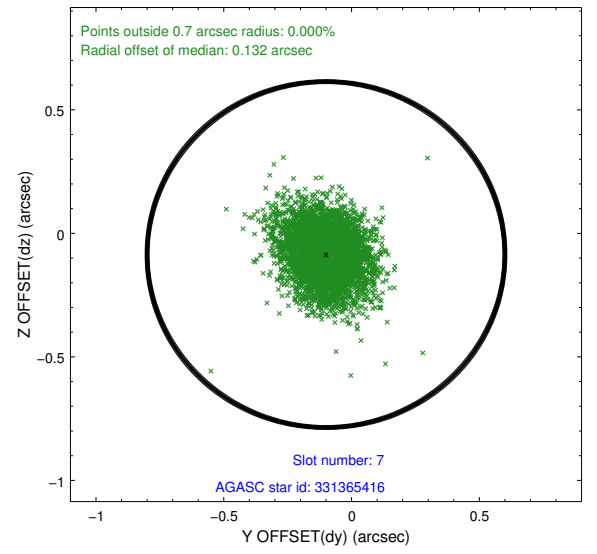
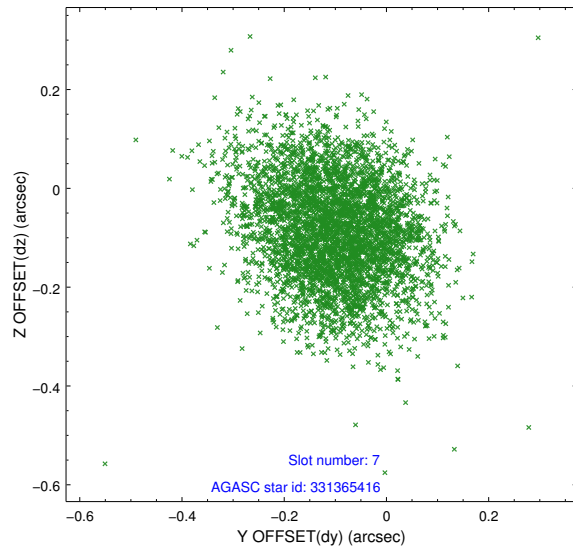
2.4.3 Slot 5



2.4.4 Slot 6

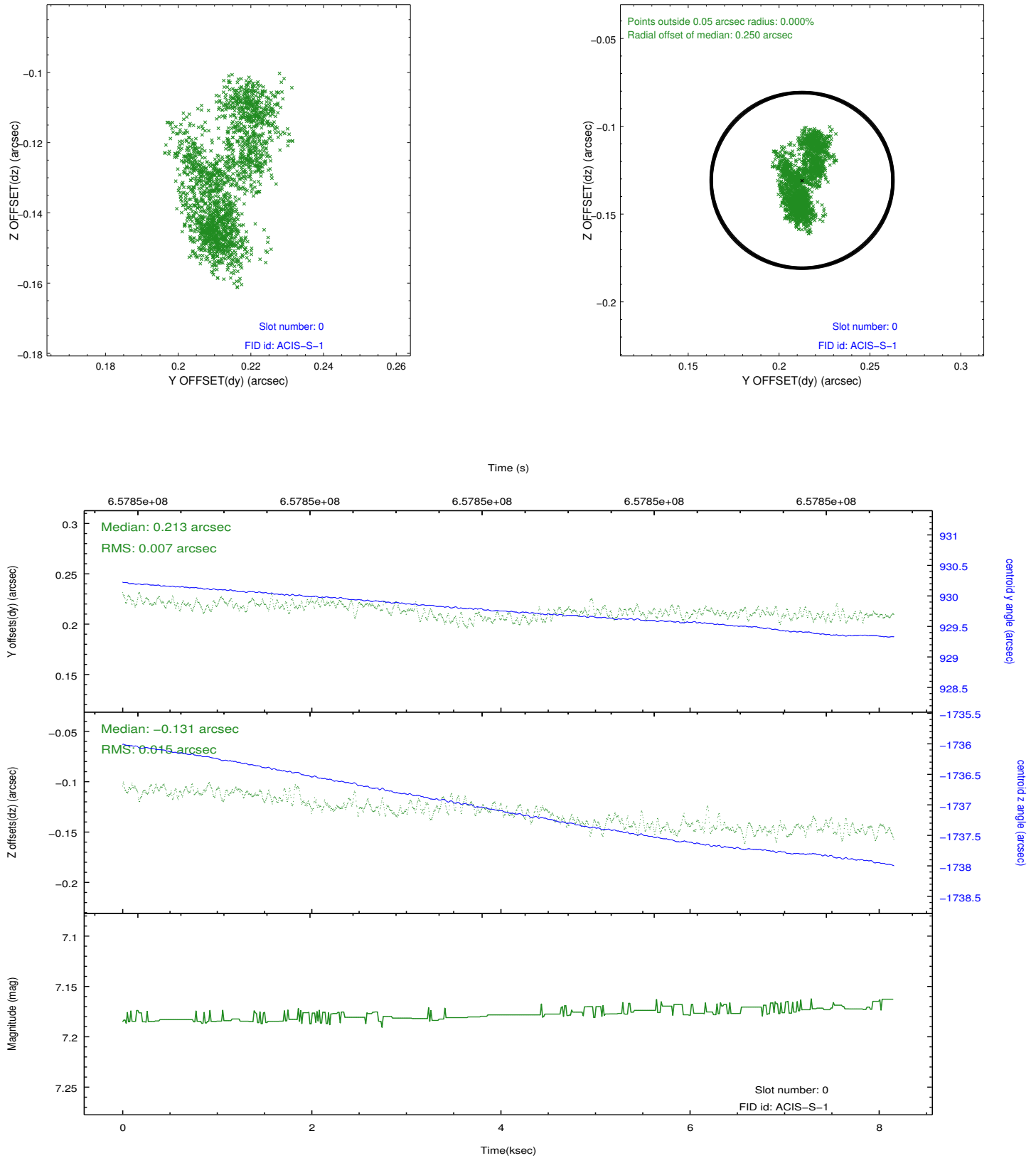


2.4.5 Slot 7

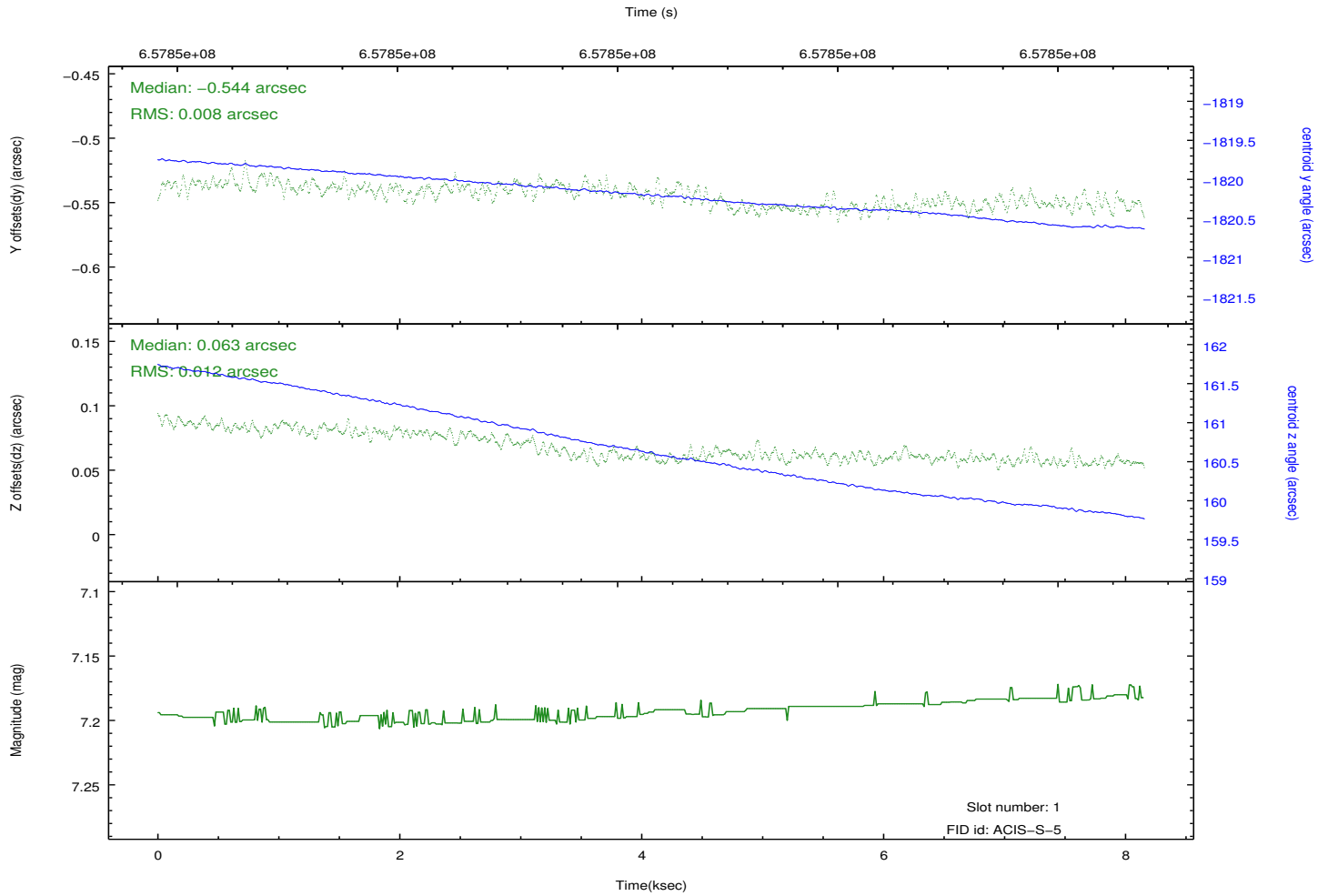
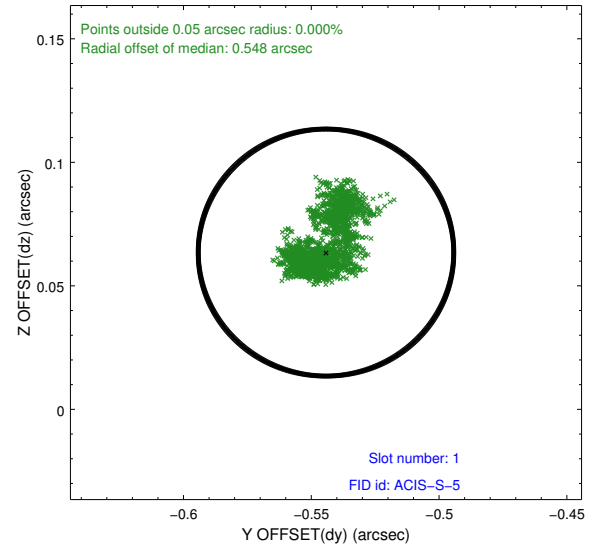
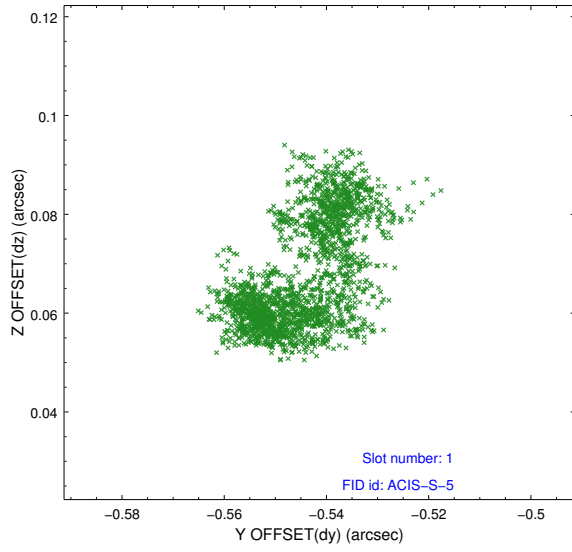


2.5 FID Slots

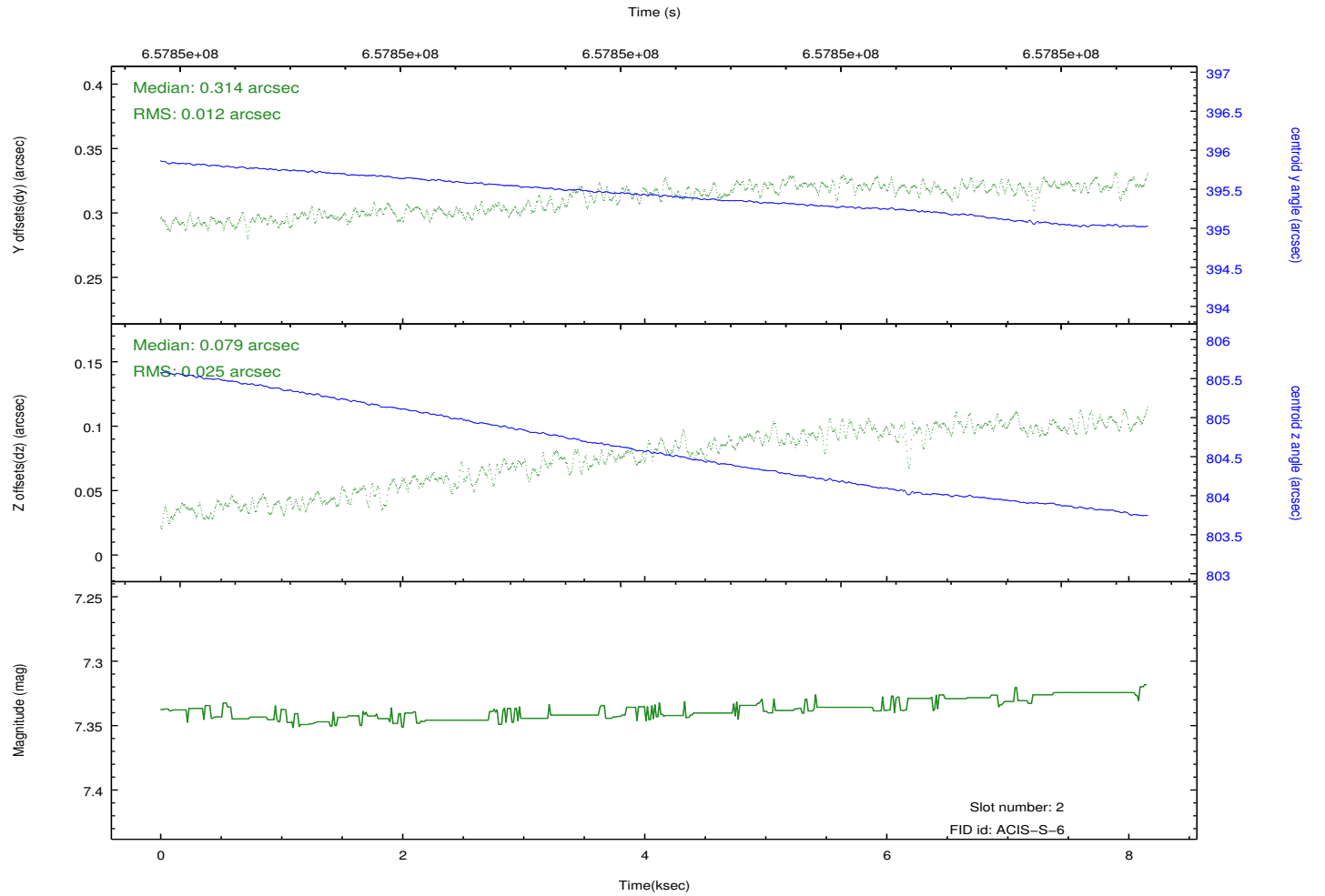
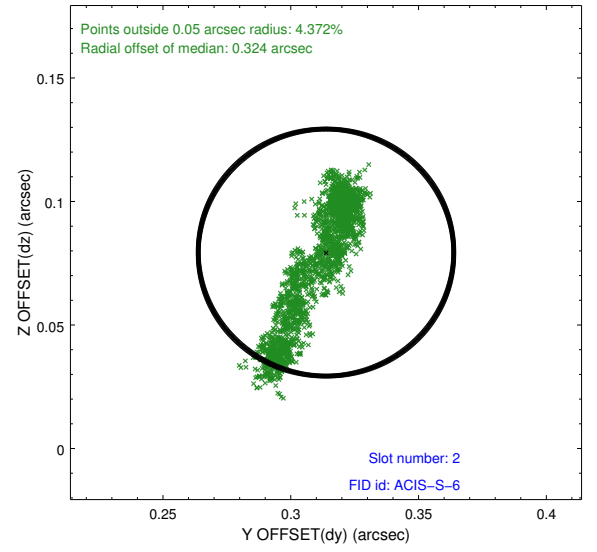
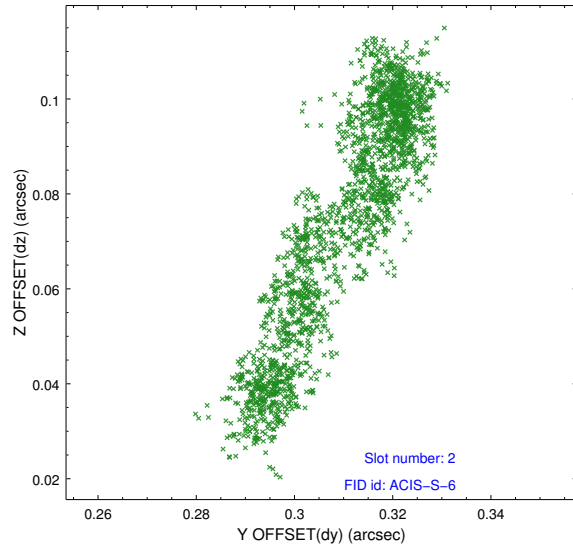
2.5.1 Slot 0



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)	2018.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1096000624895

A.2 Comments