

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19552 - L2 Version 1
Chandra X-Ray Center

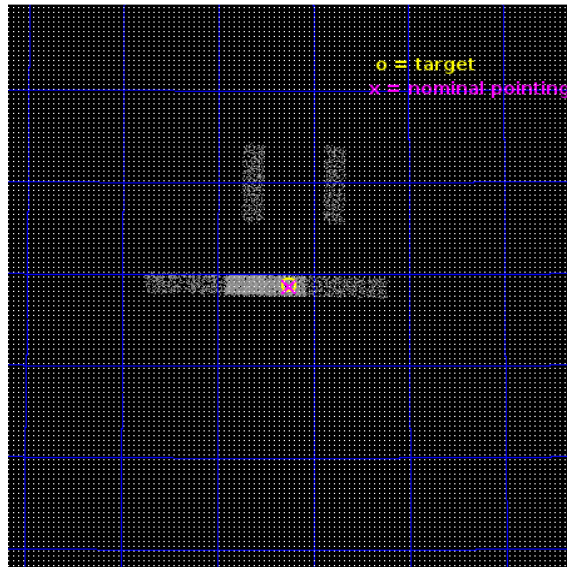
L2 Processing Date : Apr 6 2017

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

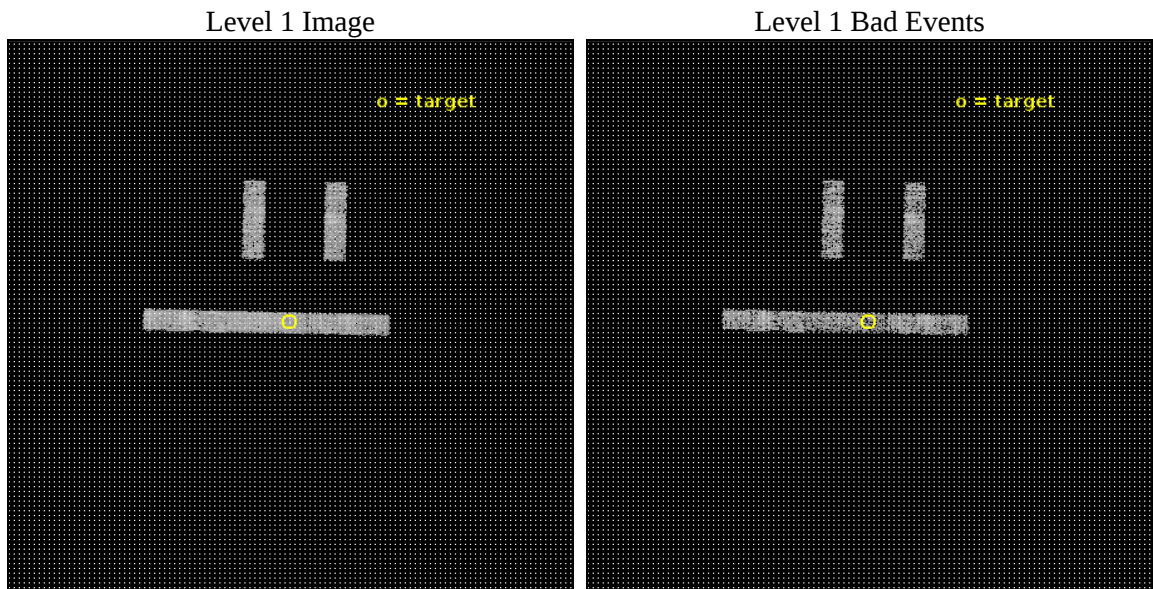
seq_num	703400	Sequence number
obs_id	19552	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ125415.55+480850.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.565	Observer's specified target RA [deg]
dec_targ	48.147417	Observer's specified target Dec [deg]
ra_nom	193.56283252454	Nominal RA [deg]
dec_nom	48.144242682626	Nominal Dec [deg]
roll_nom	181.35538647031	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3170.7827056646	Sum of GTIs [s]
livetime	3045.7837409366	Livetime [s]
ontime2	3170.6185456514	Sum of GTIs [s]
ontime3	3170.700625658	Sum of GTIs [s]
ontime6	3170.7416657209	Sum of GTIs [s]
ontime7	3170.7827056646	Sum of GTIs [s]
ontime8	3170.6595857143	Sum of GTIs [s]
l2events	6143	Number of level 2 events



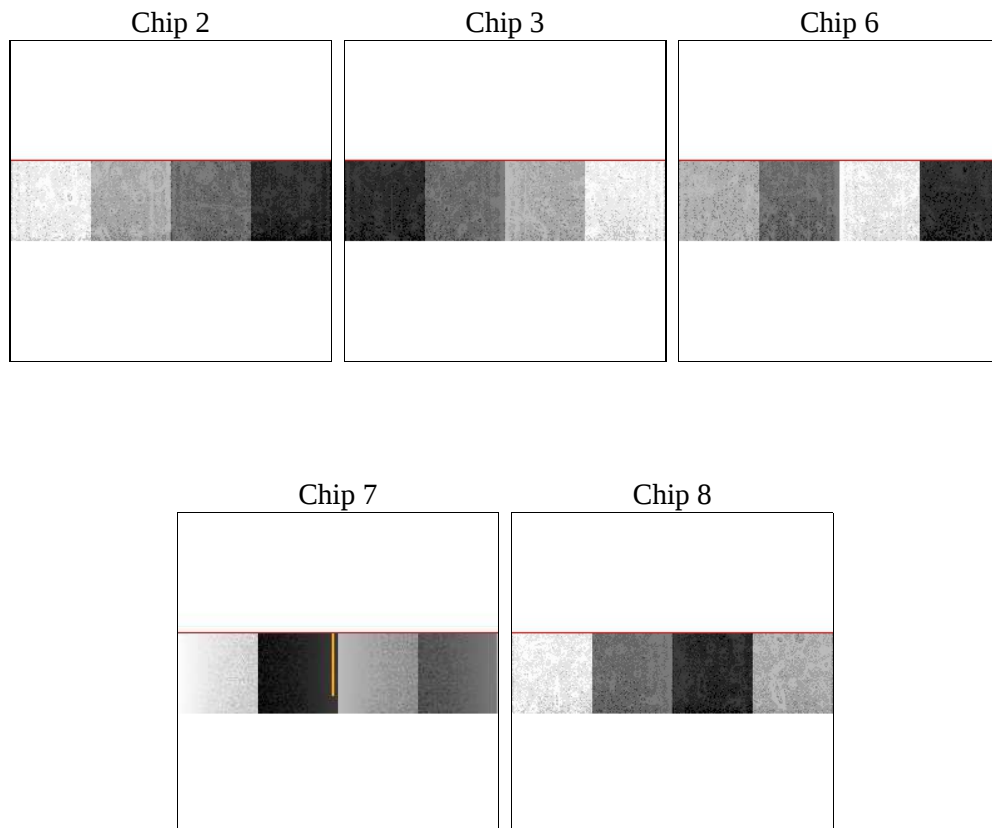
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3100.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3170.7827056646	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3170.6185456514	Sum of GTIs [s]
date	2017-04-06T05:33:05	Date and time of file creation	ontime3	3170.700625658	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3170.7416657209	Sum of GTIs [s]
			ontime7	3170.7827056646	Sum of GTIs [s]
			ontime8	3170.6595857143	Sum of GTIs [s]
			l1events	36638	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	6293	6615	6915	8041	8774
rejected events	5602	5963	6166	4239	6396
rejected %	89%	90%	89%	52%	72%

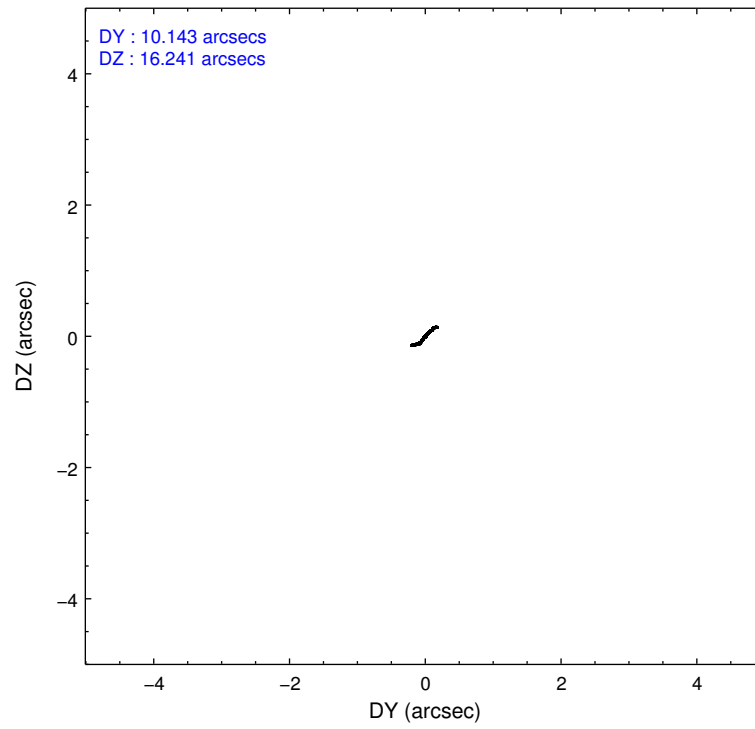
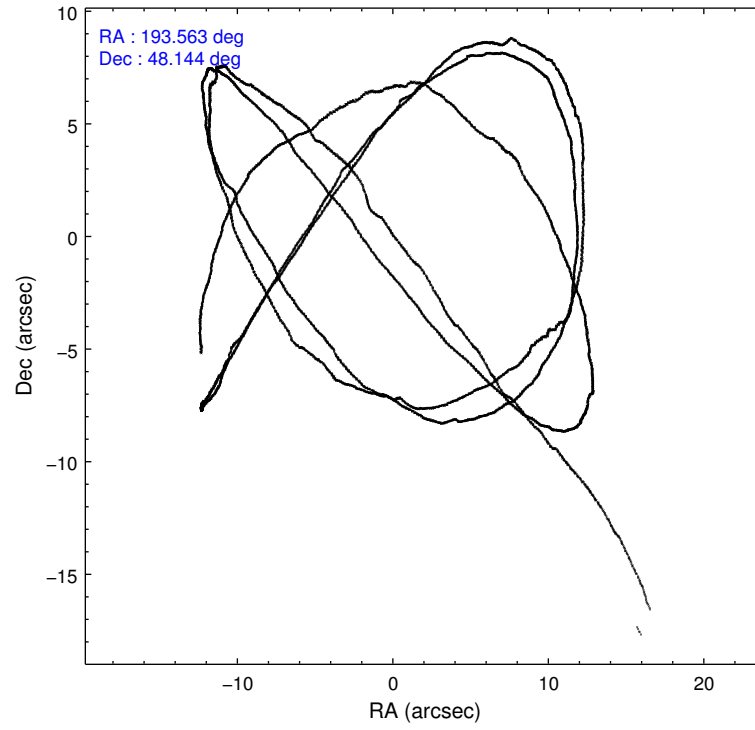
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	210	197	215	380	663
	3%	2%	3%	4%	7%
grade 1 events	2	2	1	11	3
	0%	0%	0%	0%	0%
grade 2 events	171	141	159	858	532
	2%	2%	2%	10%	6%
grade 3 events	74	92	111	378	287
	1%	1%	1%	4%	3%
grade 4 events	108	97	112	382	274
	1%	1%	1%	4%	3%
grade 5 events	243	279	289	809	383
	3%	4%	4%	10%	4%
grade 6 events	129	127	153	1806	622
	2%	1%	2%	22%	7%
grade 7 events	5356	5680	5875	3417	6010
	85%	85%	84%	42%	68%

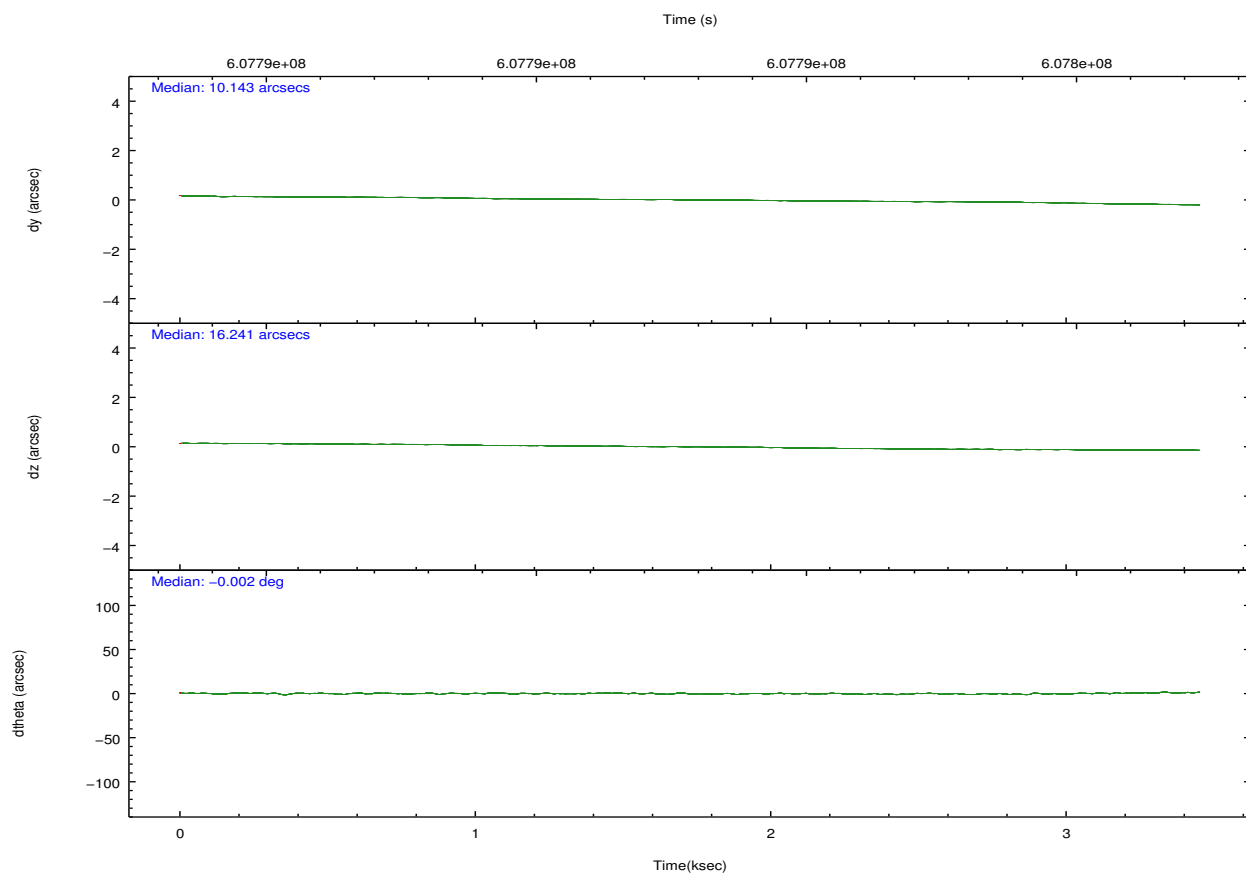
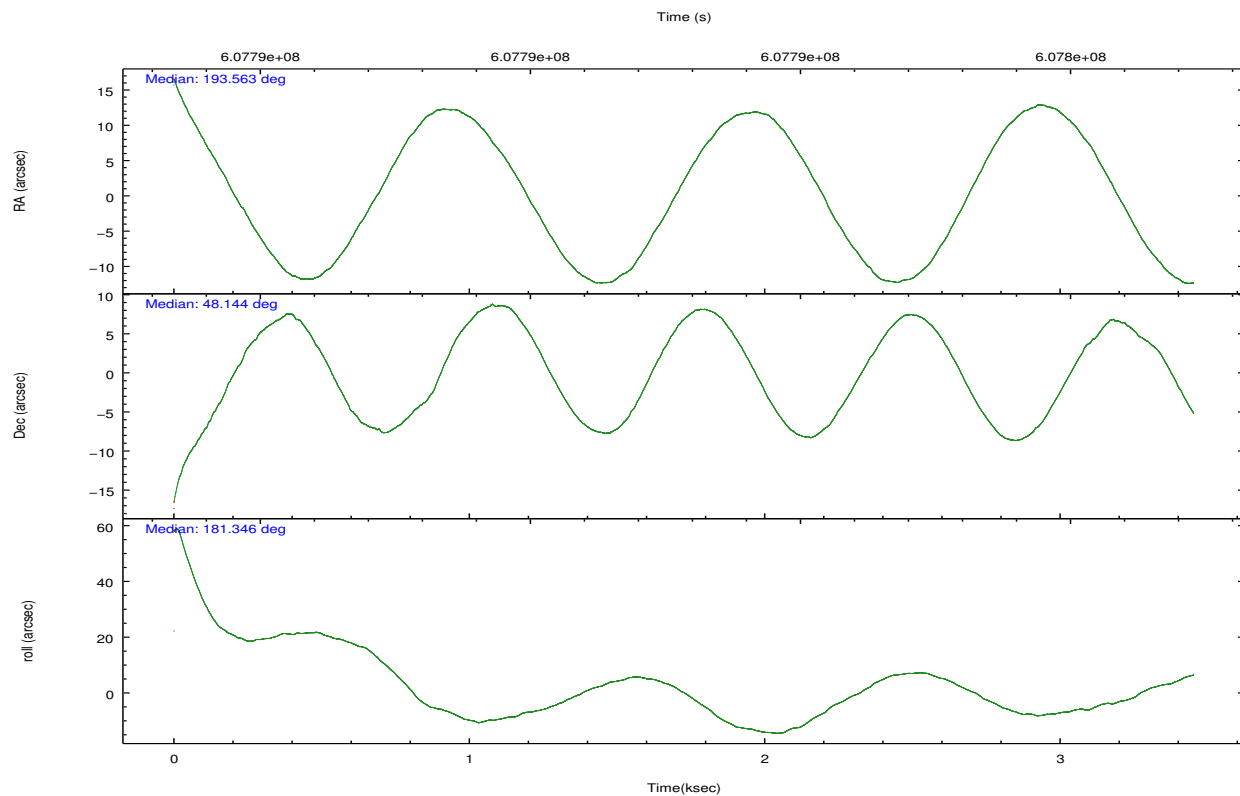
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	193.597715	193.5628325245364
[deg] Pointing Dec	48.158815	48.14424268262566
[deg] Pointing Roll	181.172620	181.3553864703082
[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)	607792190.184000	607791170.6747299
Observation start date	2017-04-05T15:08:41	2017-04-05T14:52:50
[s] Observation end time (MET)	607795290.184000	607795949.22501
Observation end date	2017-04-05T16:00:21	2017-04-05T16:12:29
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	O1	Y
CCD I3 on	Y	Y
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	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



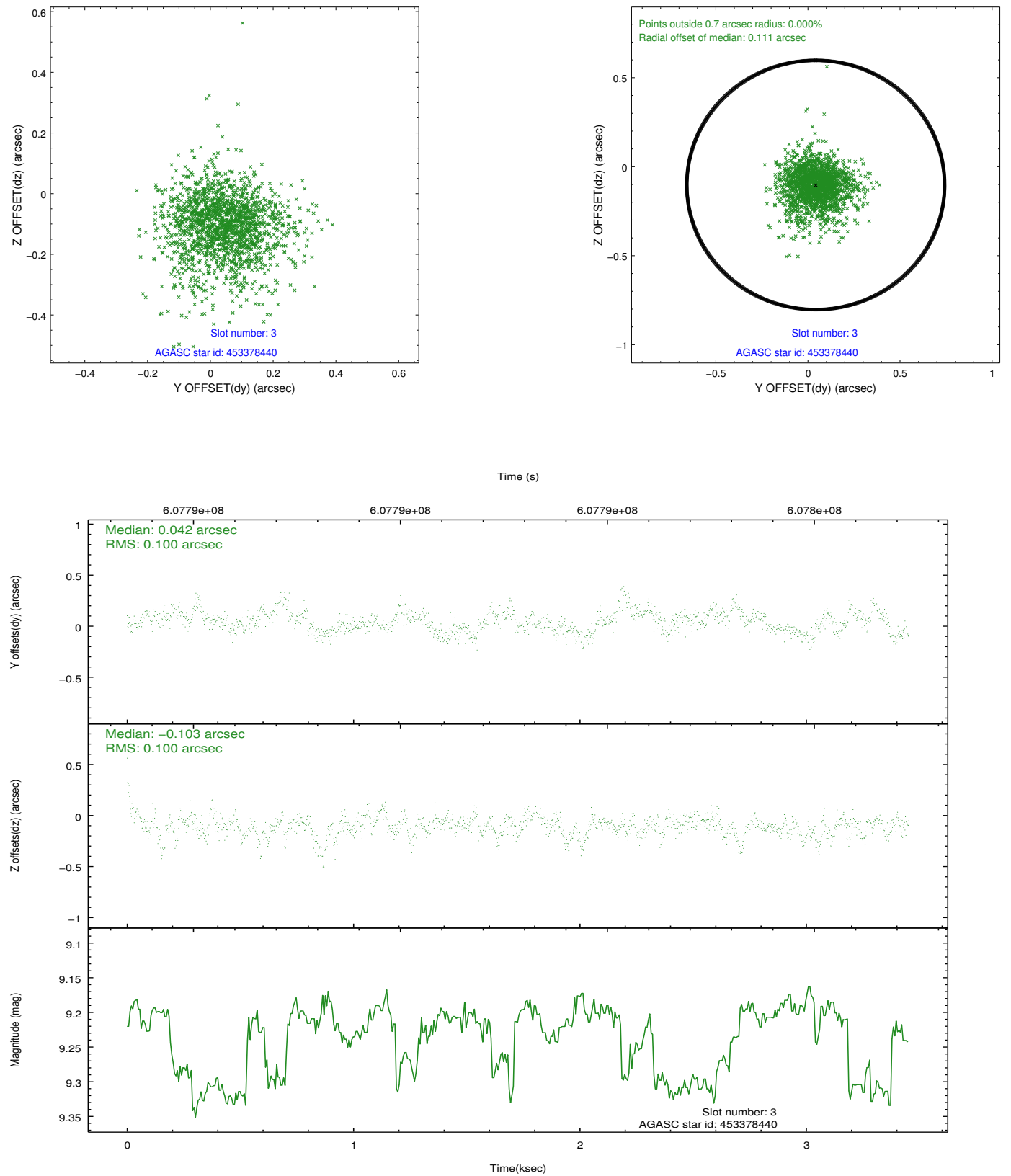


Slot Statistics

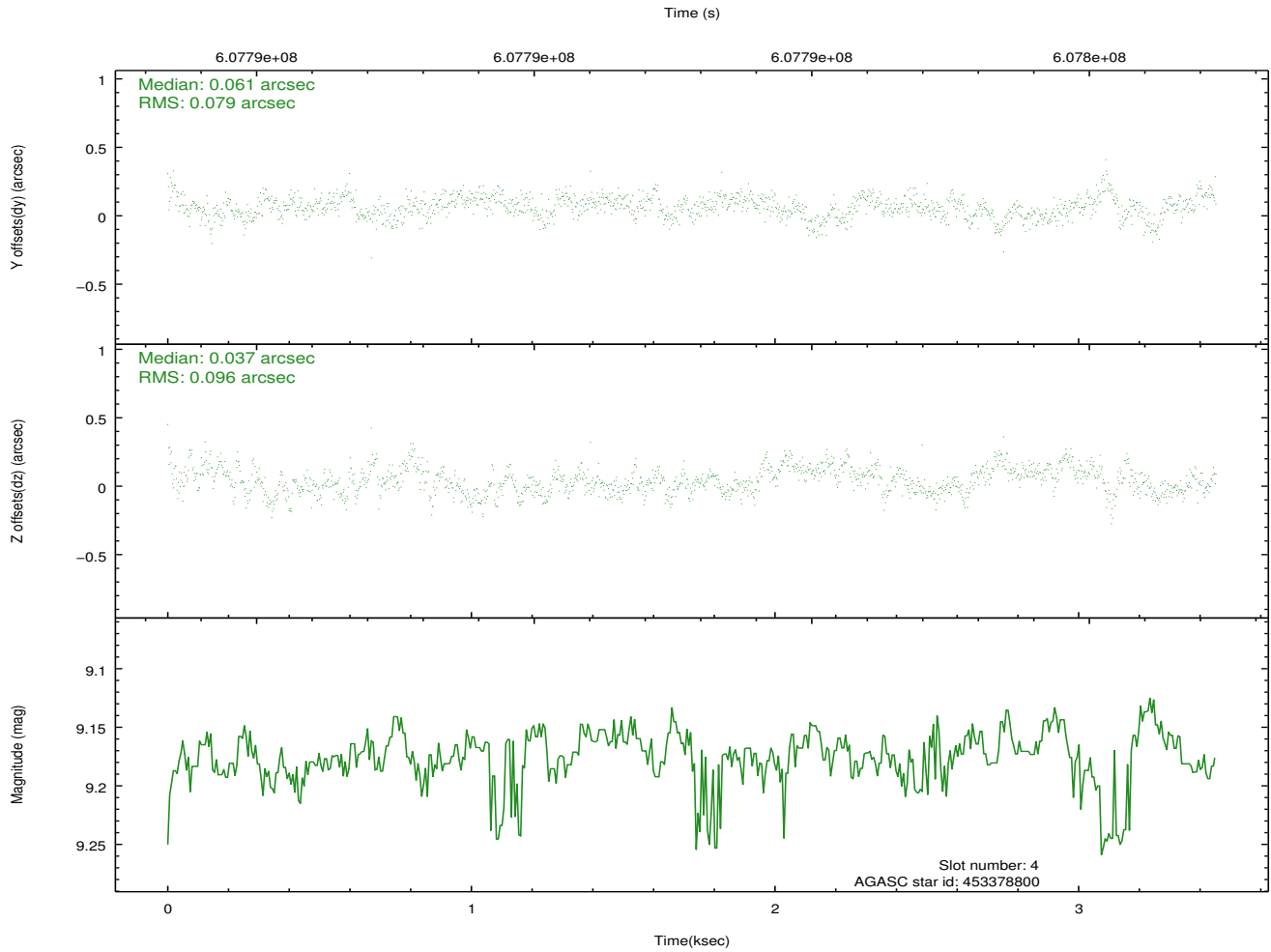
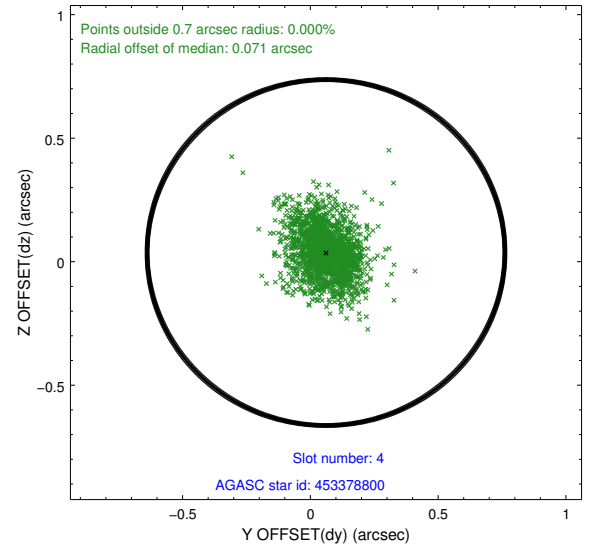
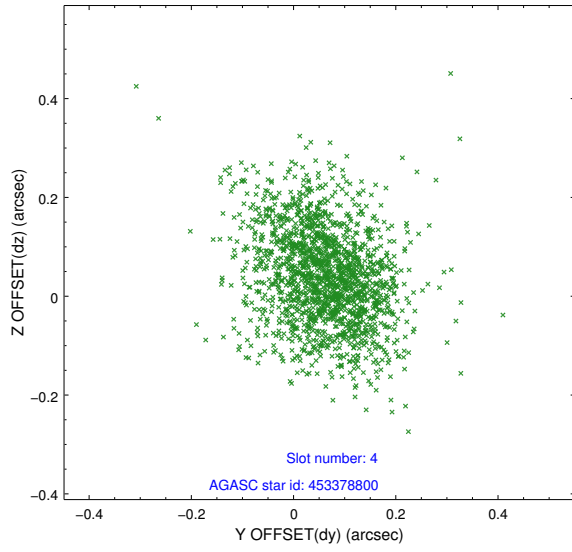
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	843	-0.203	-0.113	0.006	0.011	0.000000	0.000000	-763.23	-1737.74
1	FID		ACIS-S-4	7.04	843	0.240	0.121	0.006	0.010	0.000000	0.000000	2149.71	169.00
2	FID		ACIS-S-6	7.17	843	-0.065	-0.001	0.007	0.012	0.000000	0.000000	401.31	808.40
3	GUIDE	used	453378440	9.23	1684	0.042	-0.103	0.144	0.249	193.064492	48.361887	1260.97	-761.21
4	GUIDE	used	453378800	9.17	1685	0.061	0.037	0.129	0.218	192.798563	48.278281	1906.11	-478.76
5	GUIDE	used	453379032	9.02	1685	-0.341	-0.226	0.145	0.237	193.249856	47.658895	882.14	1778.80
6	GUIDE	used	453379896	9.82	1682	0.296	-0.069	0.239	0.413	192.776250	48.703546	1913.31	-2008.77
7	GUIDE	used	453388000	8.75	1684	-0.045	0.368	0.133	0.227	194.531383	48.234479	-2242.90	-240.93

2.4 Star Slots

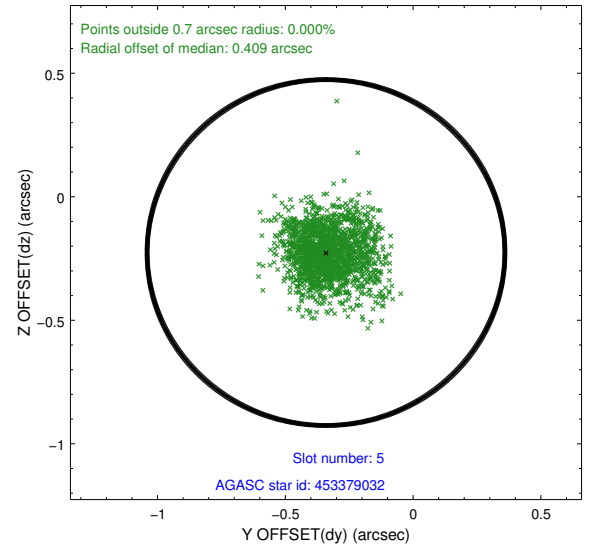
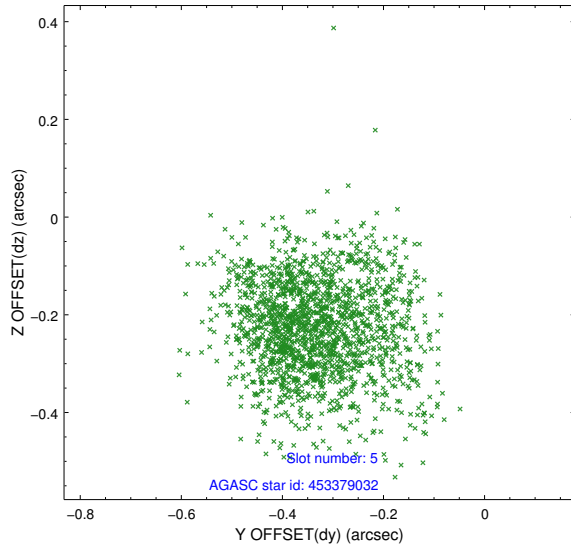
2.4.1 Slot 3



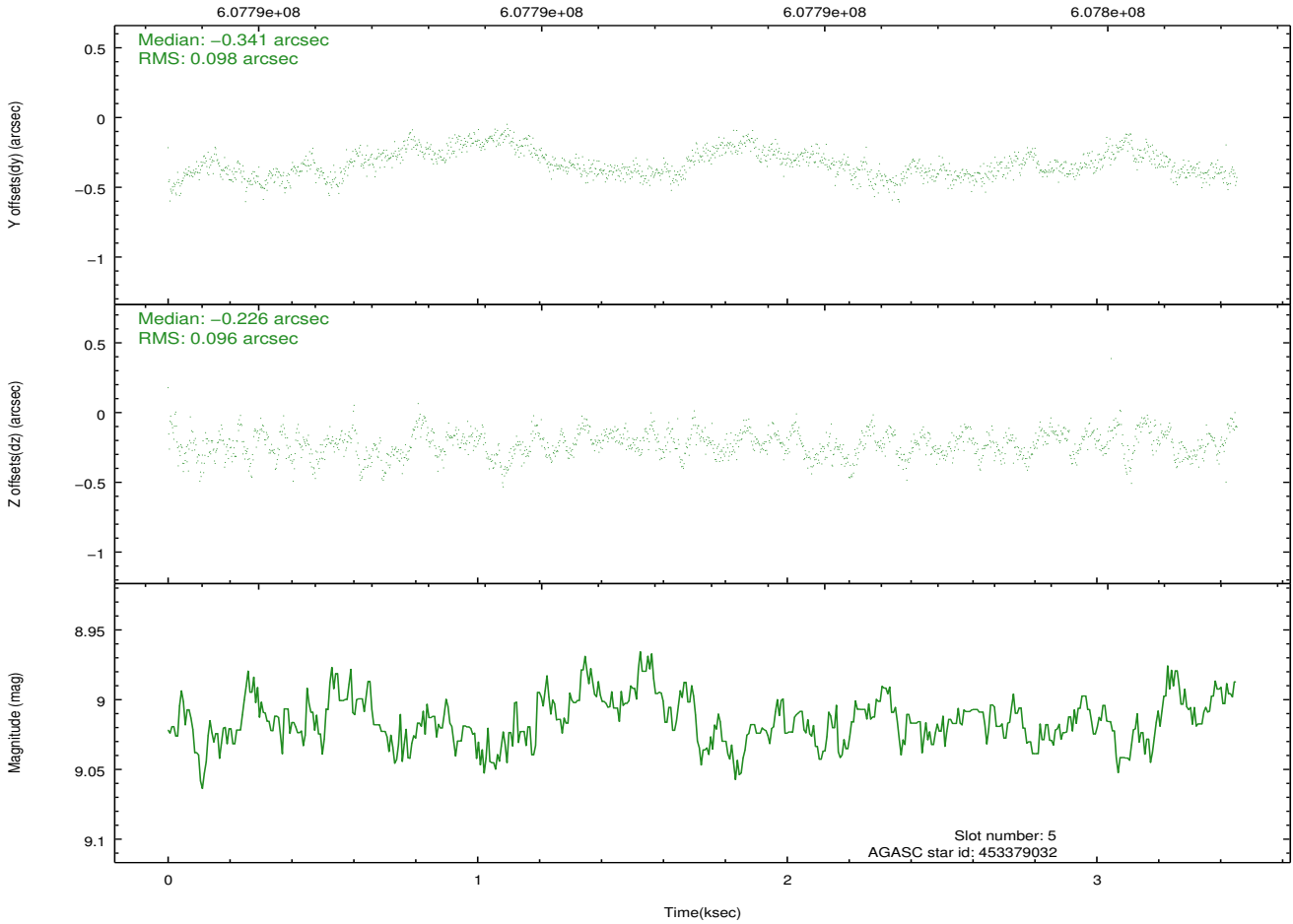
2.4.2 Slot 4



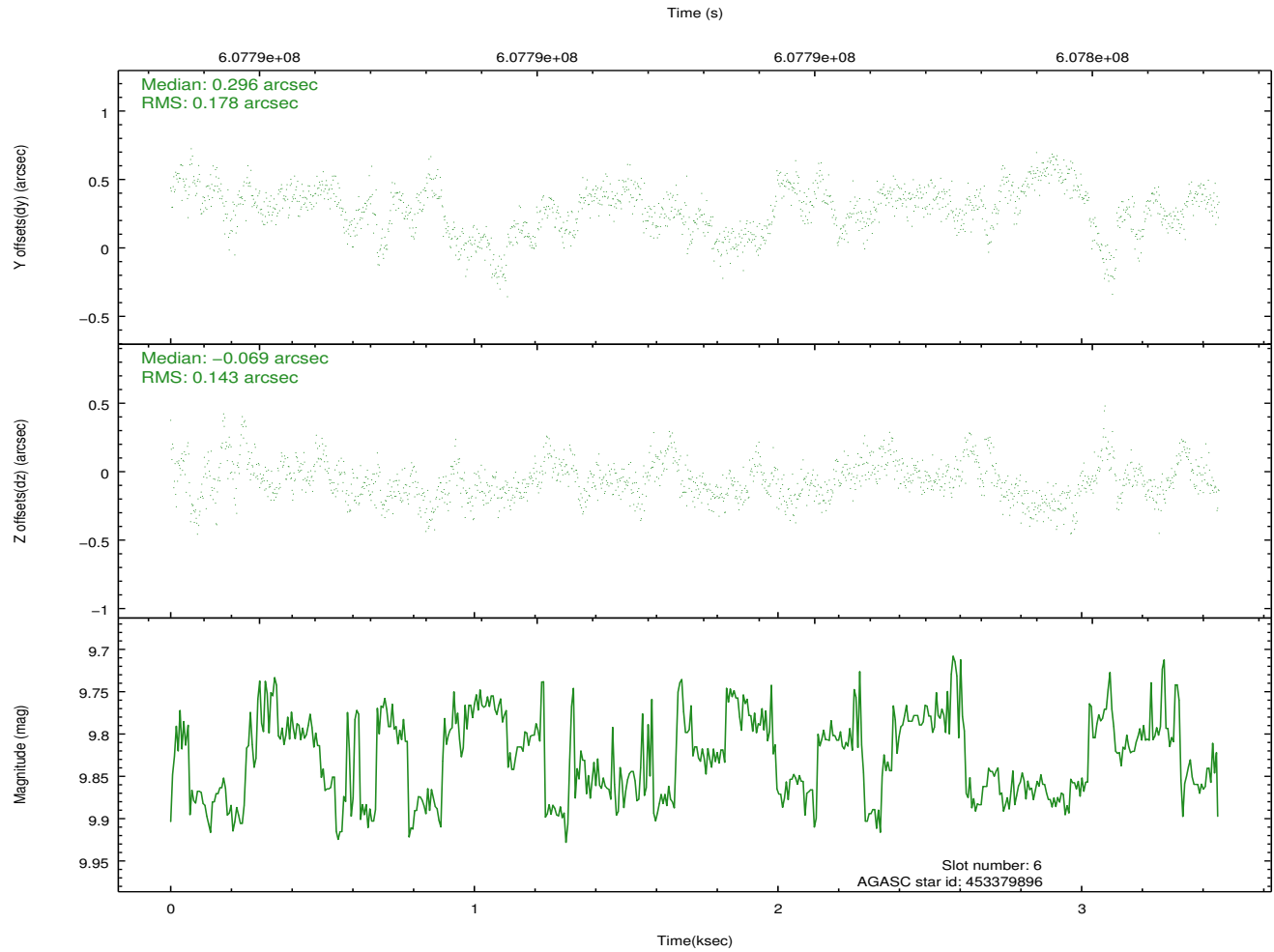
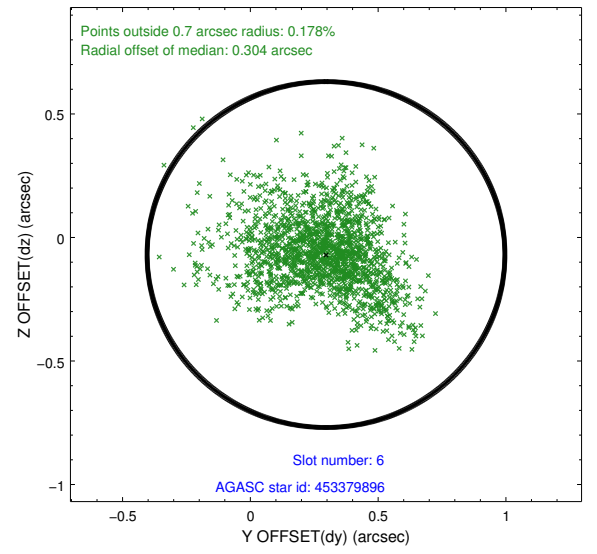
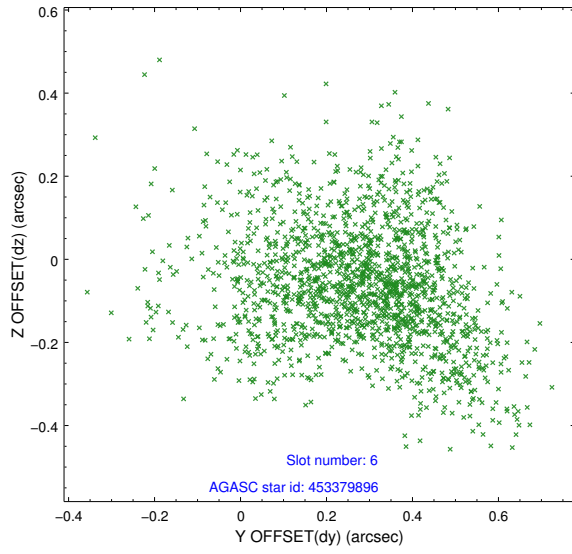
2.4.3 Slot 5



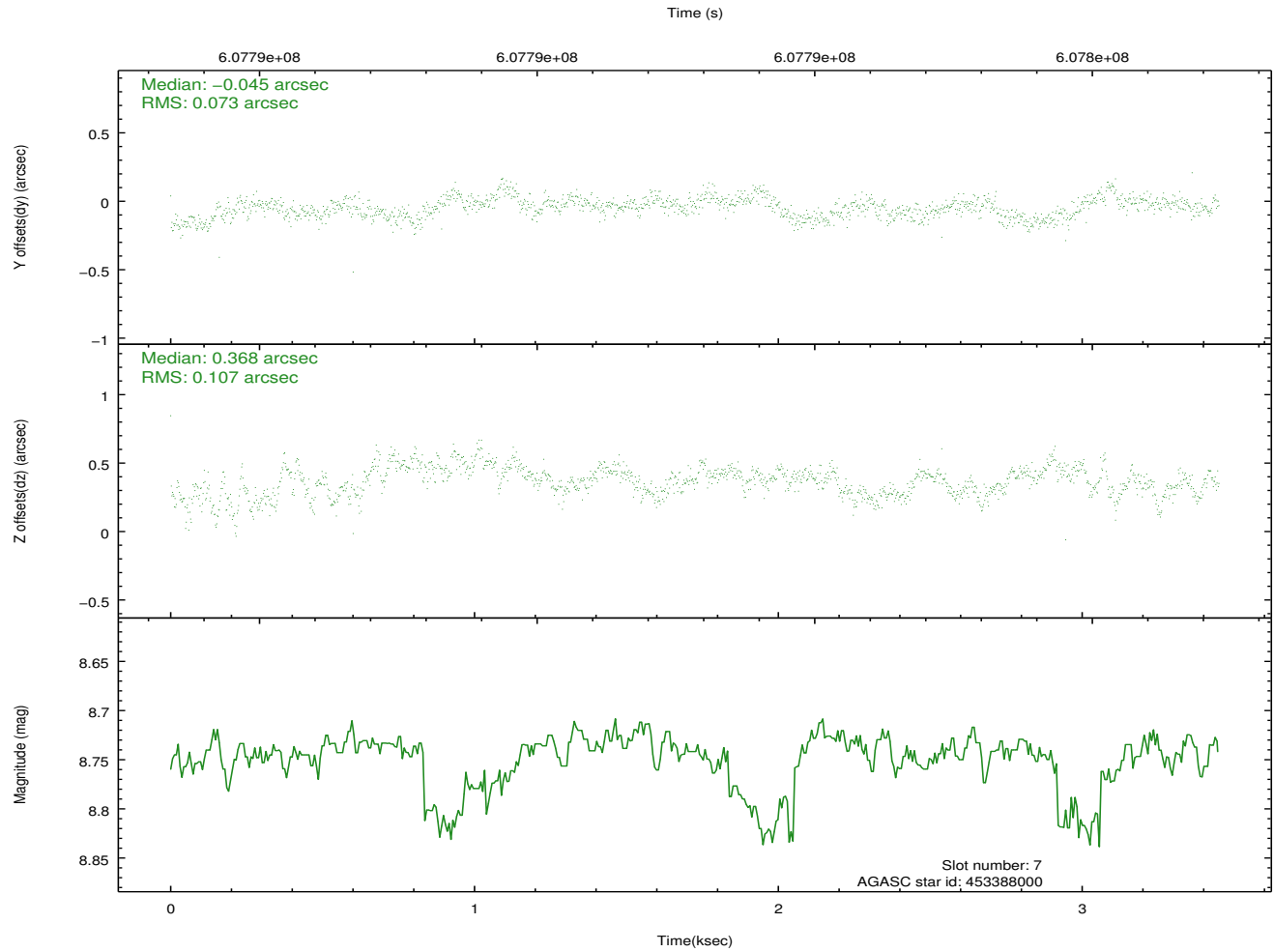
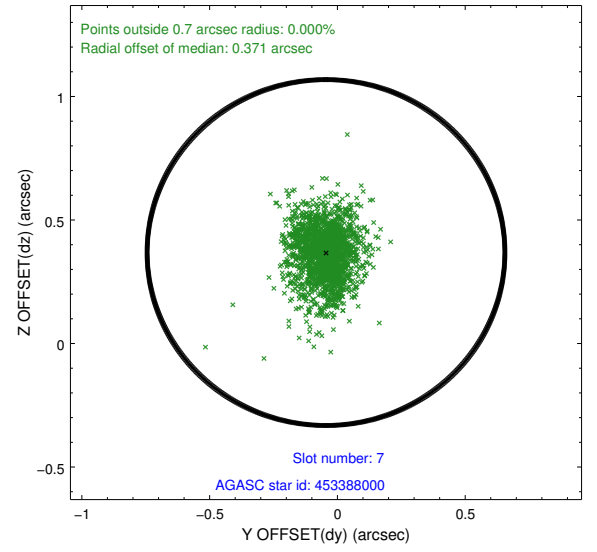
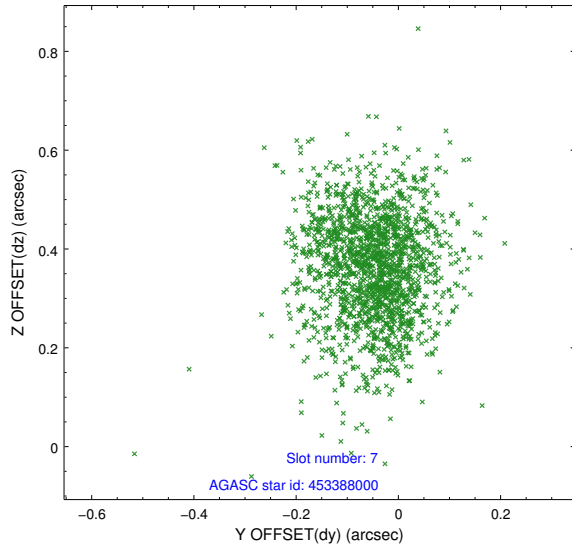
Time (s)



2.4.4 Slot 6

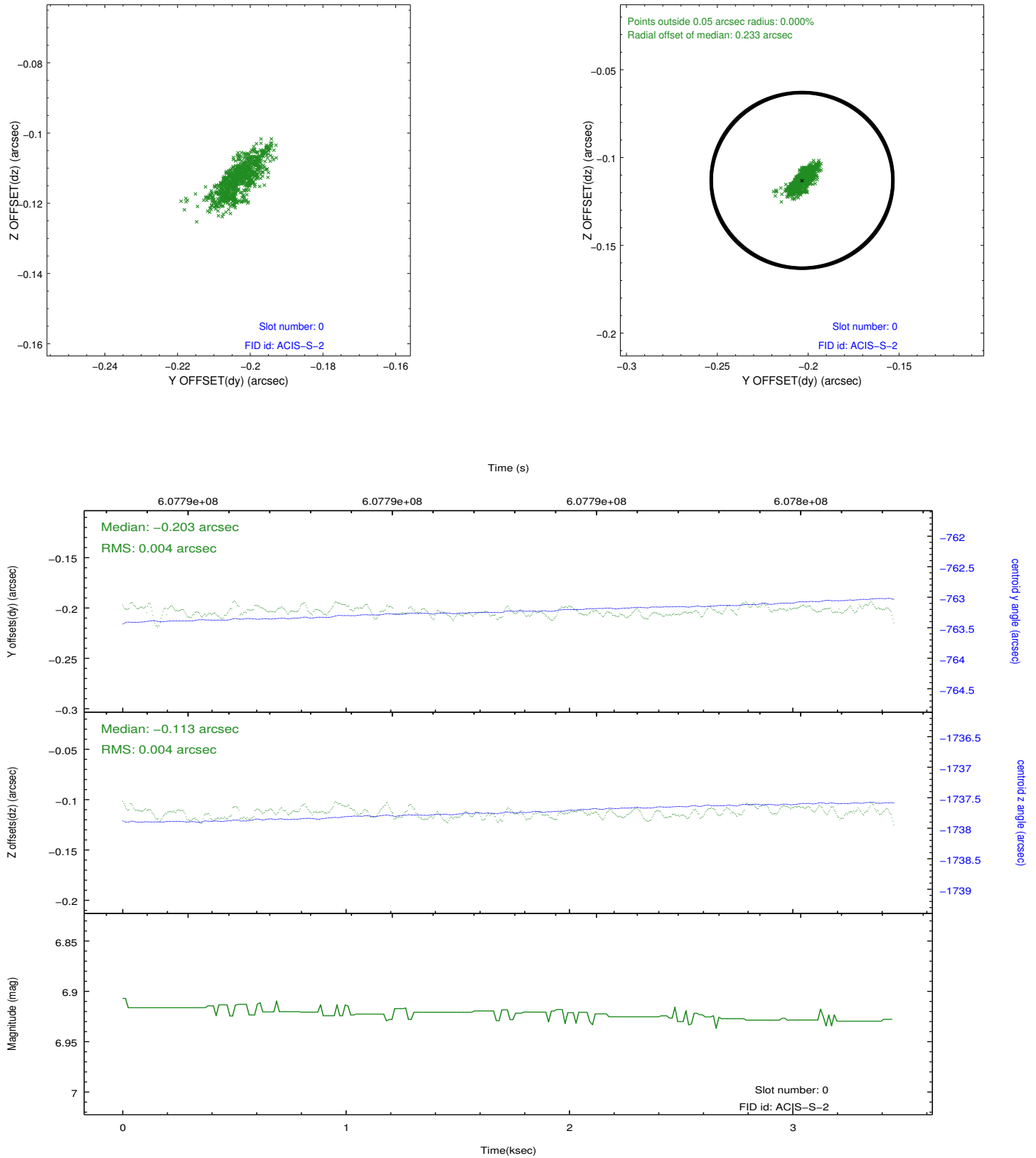


2.4.5 Slot 7

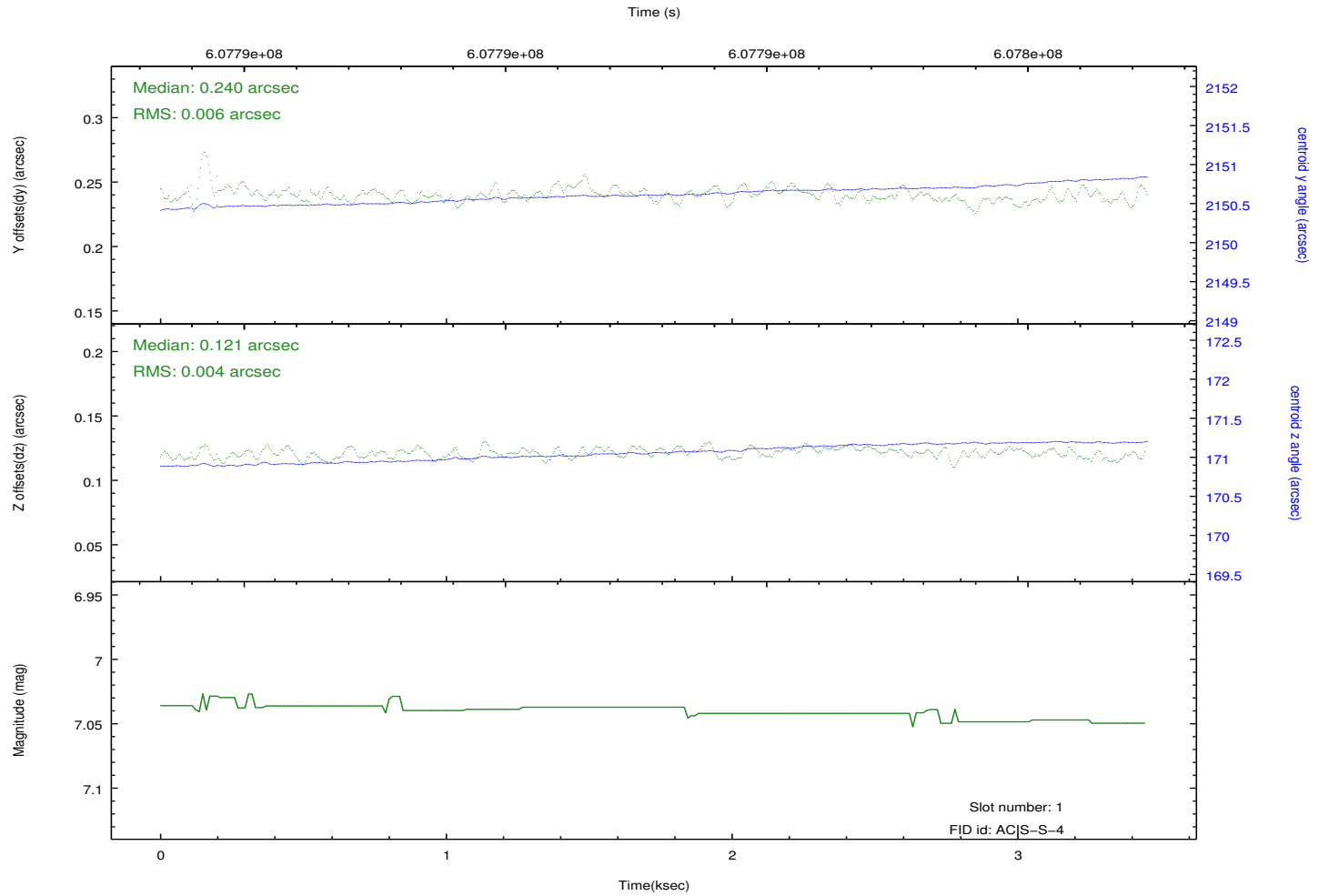
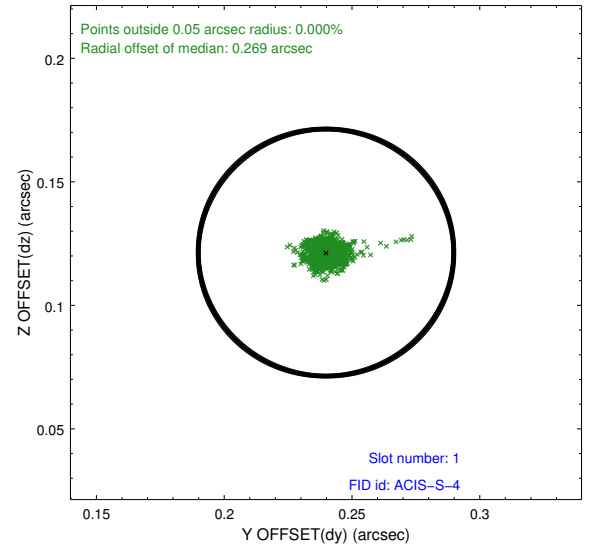
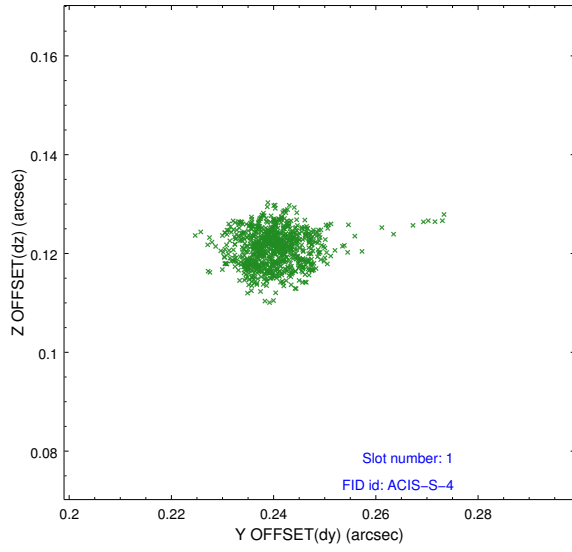


2.5 FID Slots

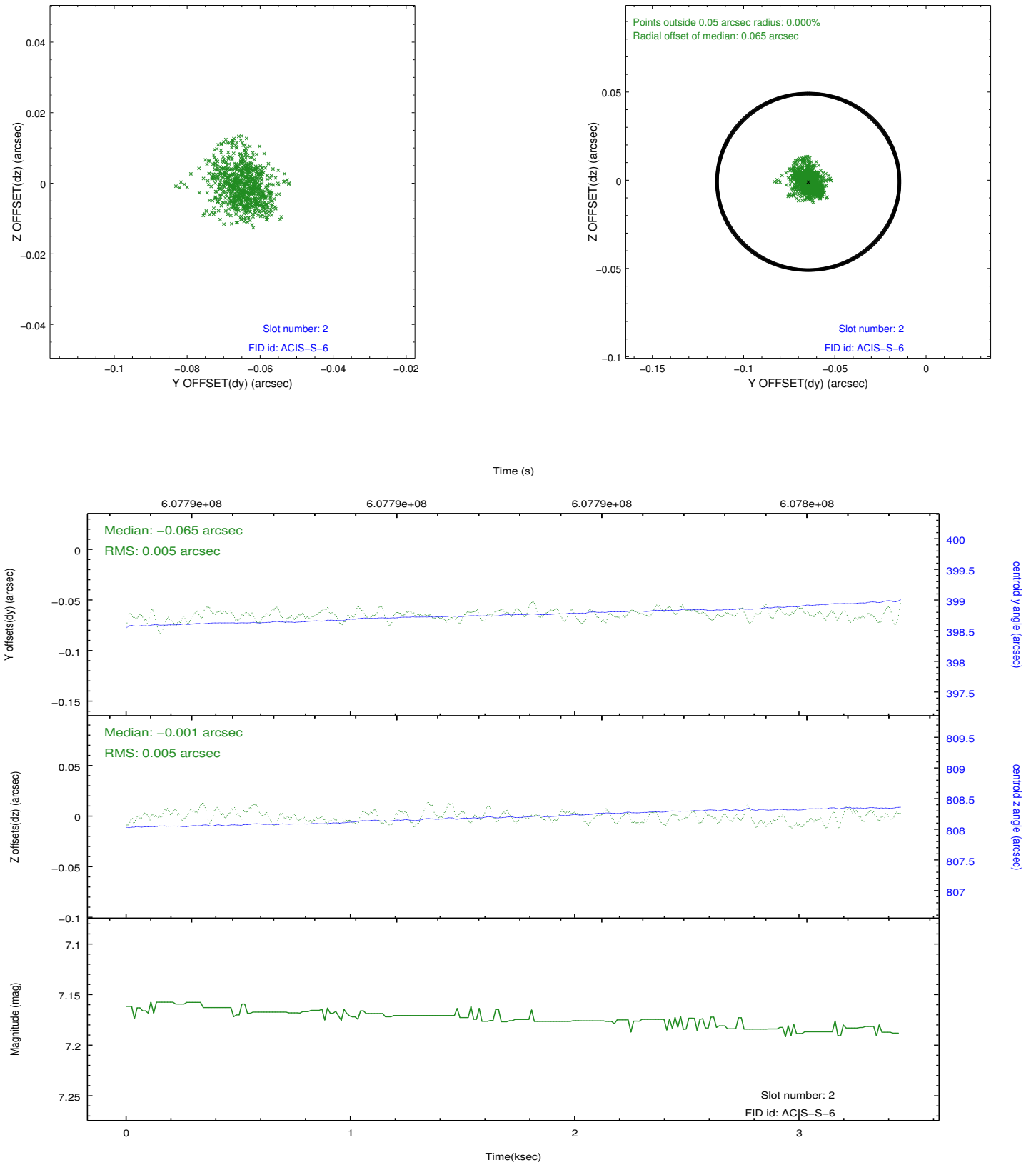
2.5.1 Slot 0



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)	2017.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1707827056646

A.2 Comments