

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 1347 - L2 Version 4

Chandra X-Ray Center

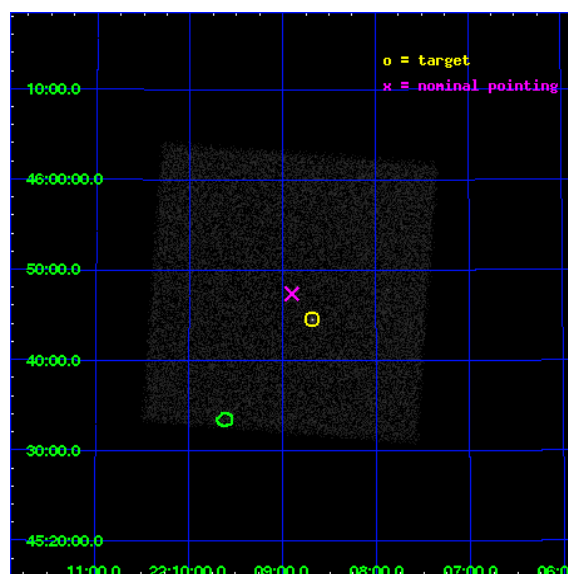
L2 Processing Date : Nov 19 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

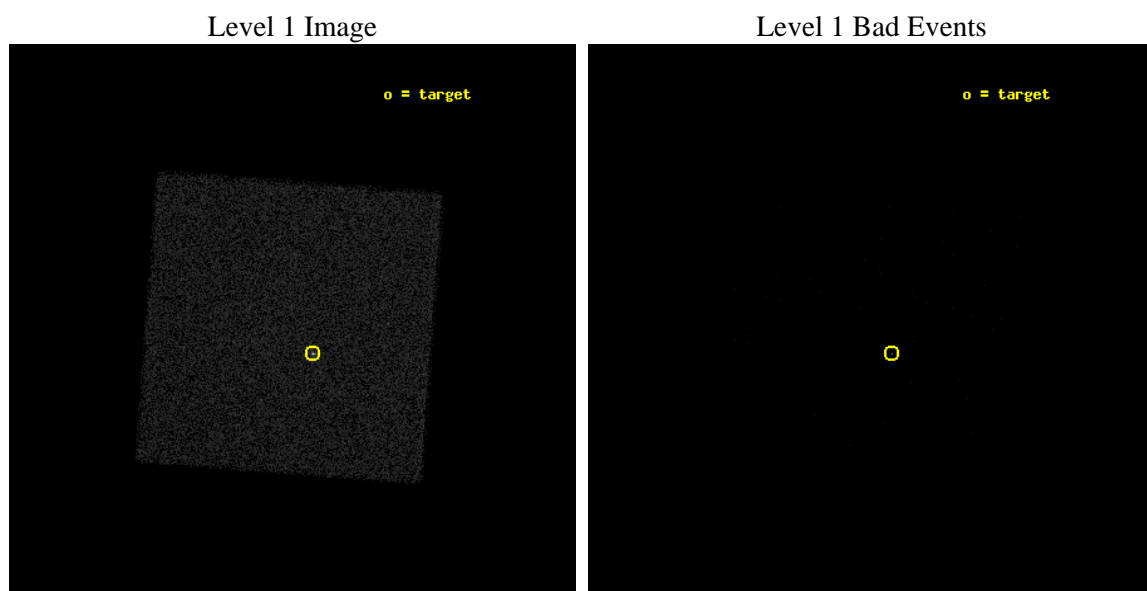
seq_num	280297	Sequence number
obs_id	1347	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.22497288748	Nominal RA
dec_nom	45.790116134244	Nominal Dec
roll_nom	229.34404986612	Nominal Roll
revision	4	Processing version of data
ontime	1274.3312959149	[s]
livetime	1265.3661318305	Ontime multiplied by DTCOR
l2events	42162	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	1274.3312959149	[s]
caldbver	4.1.4	 	l1events	69072	Number of level 1 events
date	2009-11-19T05:09:39	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

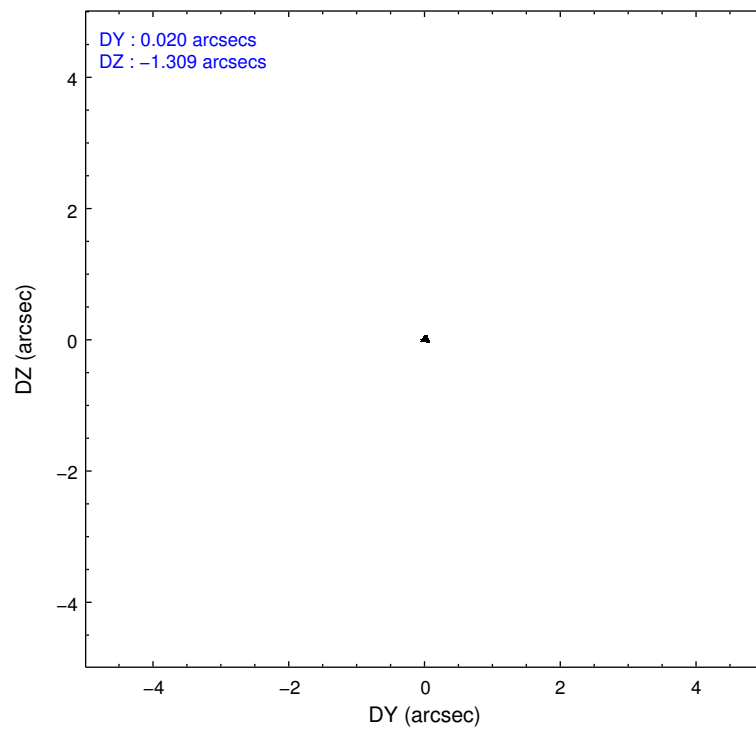
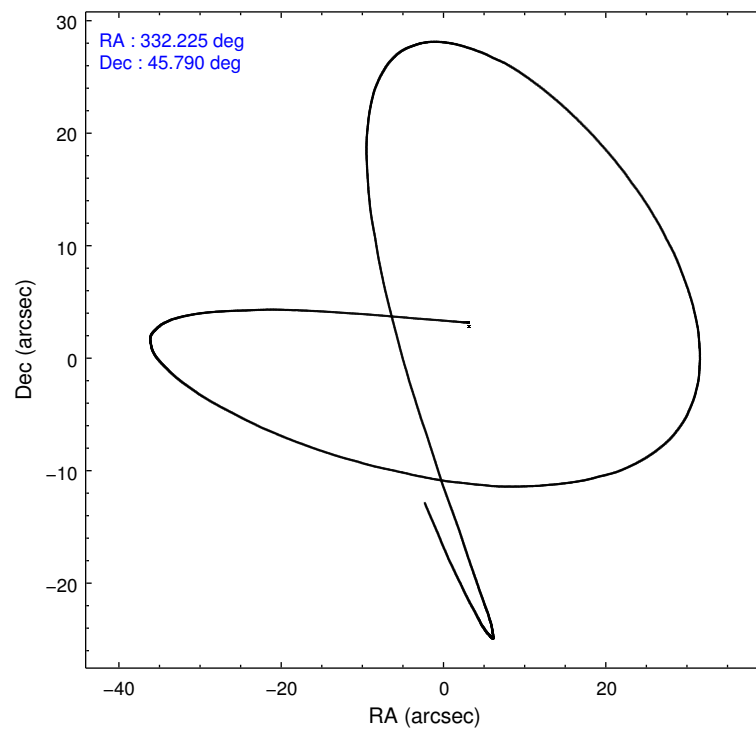
Level 1 Events

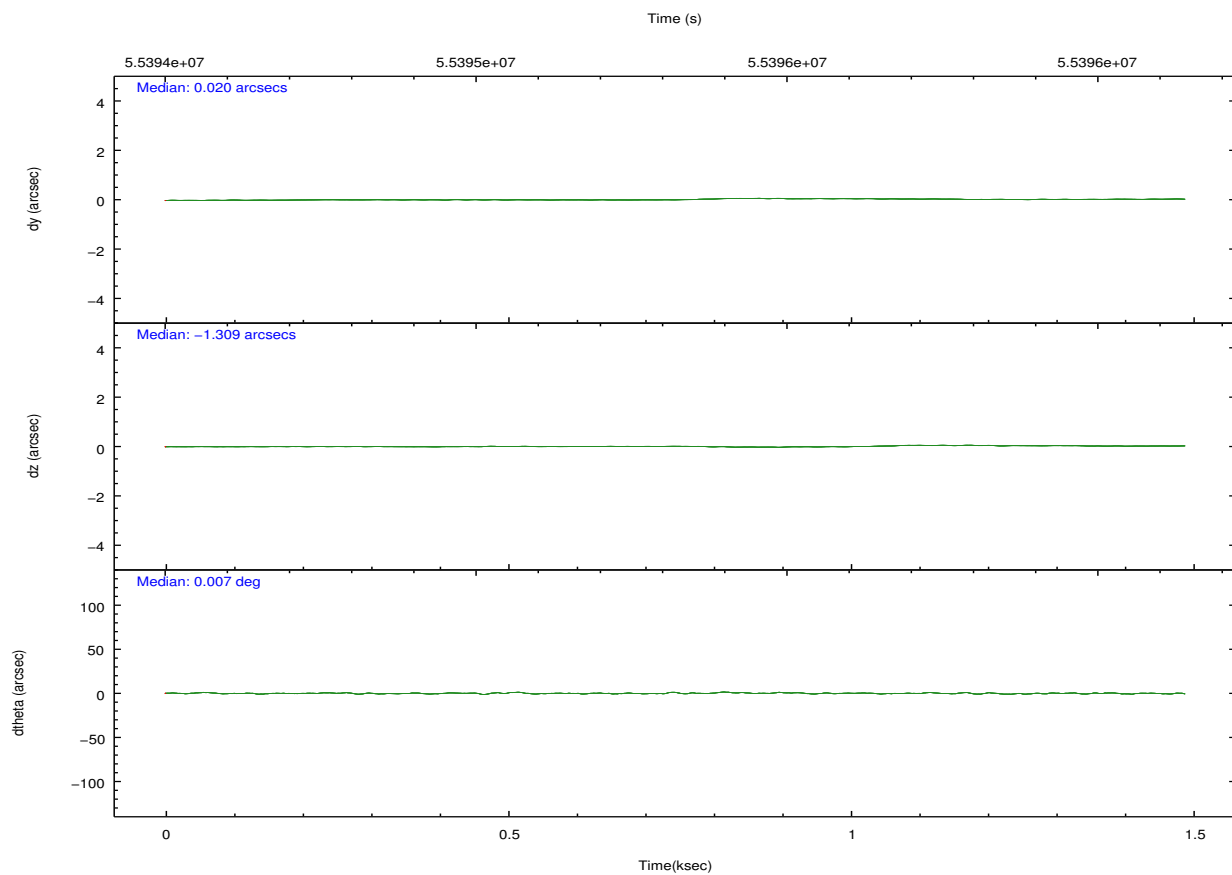
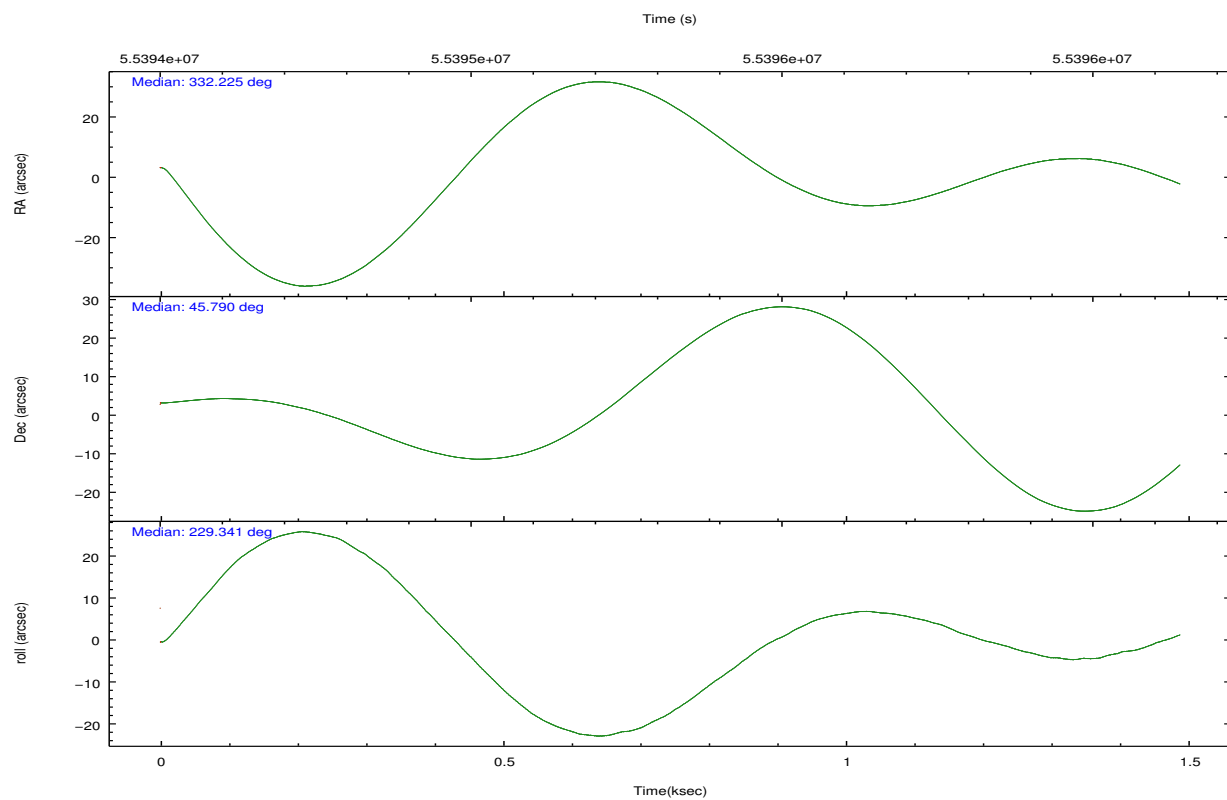
	segment 0
level 1 events	69072
rejected events	2686
rejected %	3%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.233195	332.22497288748			
Pointing Dec	45.817832	45.79011613424438			
Pointing Roll	229.433605	229.3440498661188			
SIM focus pos (mm)	-0.040293	-0.2342646132009995			
SIM defocus (mm)	1	0.806028007457875			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	55395064.184000	55394397.59553			
Observation start date	1999-10-04T03:30:00	1999-10-04T03:19:57			
Observation end time	55396064.184000	55396197.495595			
Observation end date	1999-10-04T03:46:40	1999-10-04T03:49:57			

2.3 Aspect



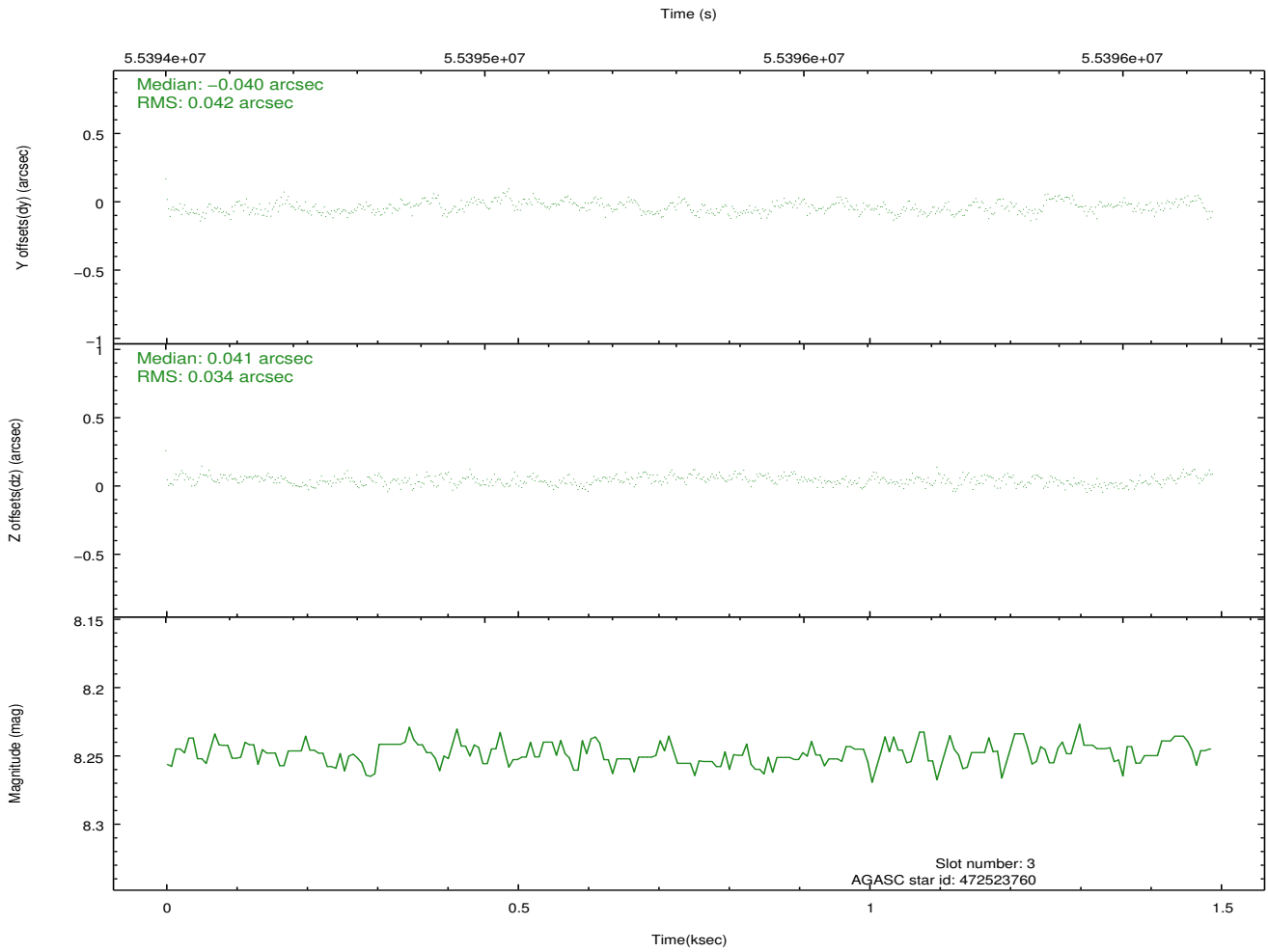
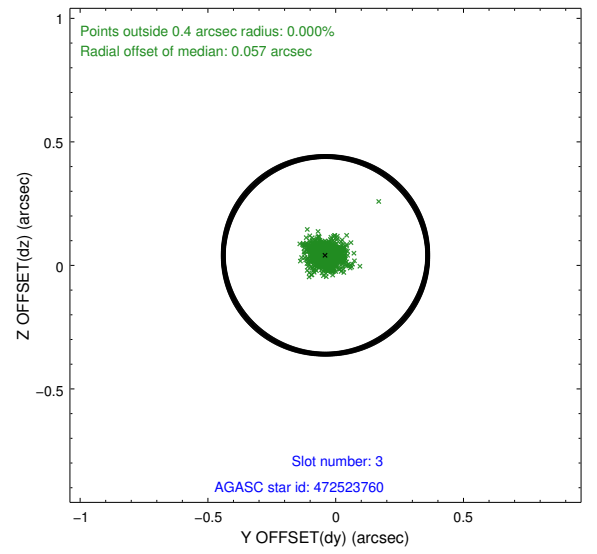
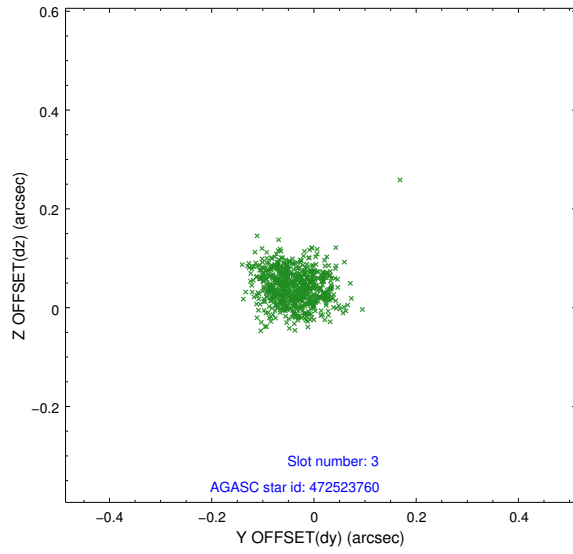


Slot Statistics

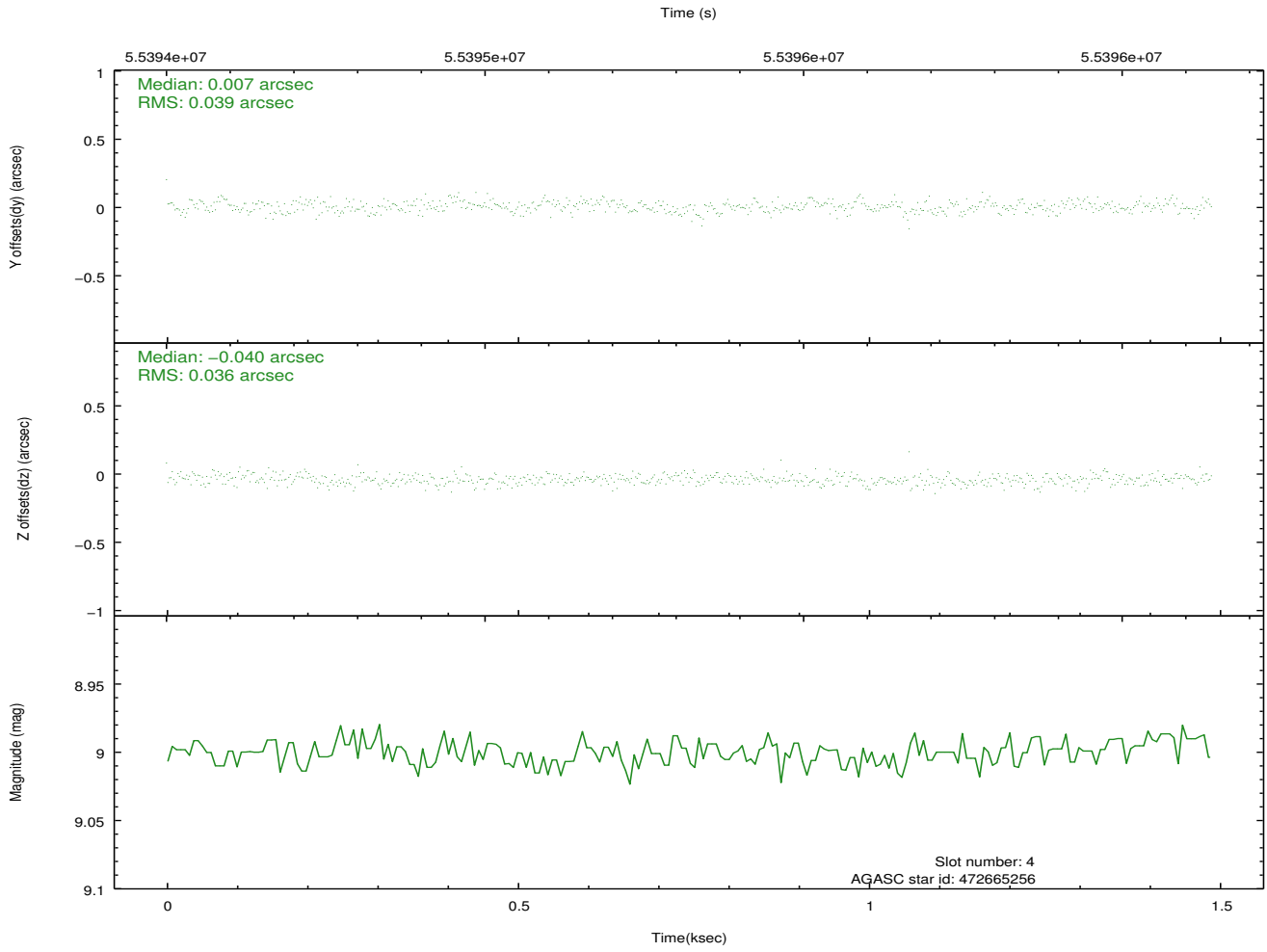
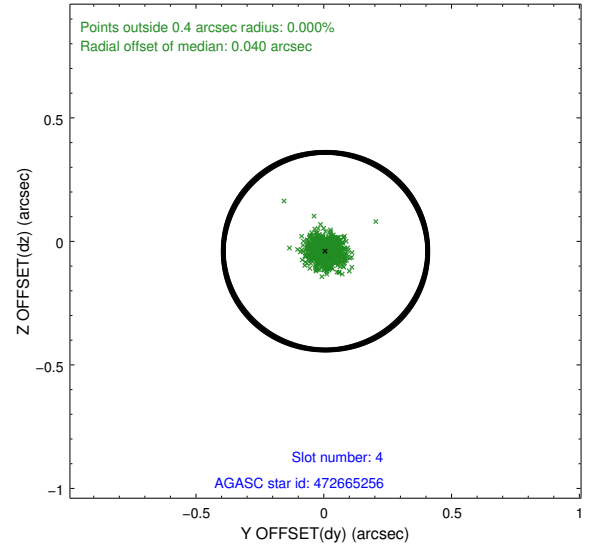
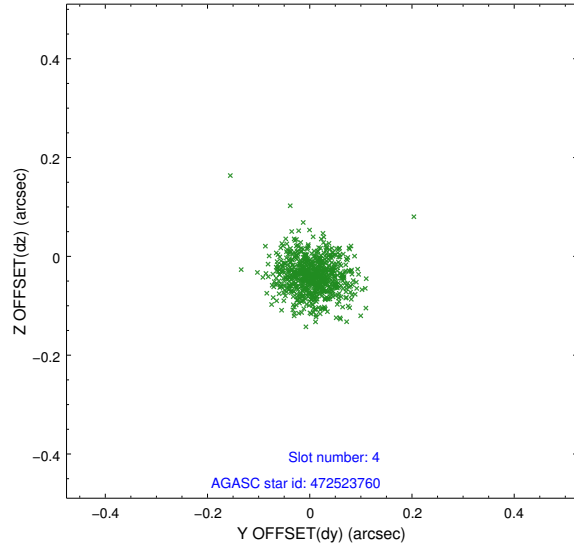
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	727	0.060	-0.003	0.006	0.010	0.000000	0.000000	-755.40	-1286.49
1	FID	HRC-I-3	7.04	727	0.059	-0.030	0.007	0.010	0.000000	0.000000	-1185.01	1016.45
2	FID	HRC-I-4	6.98	727	-0.004	-0.056	0.005	0.009	0.000000	0.000000	1285.81	1017.26
3	GUIDE	472523760	8.25	727	-0.040	0.041	0.057	0.089	331.645363	45.403260	2092.47	-161.40
4	GUIDE	472665256	9.00	727	0.007	-0.040	0.056	0.090	332.808125	46.195041	-1967.71	201.65
5	GUIDE	472659832	9.46	725	-0.029	0.045	0.077	0.123	332.780399	46.098139	-1664.61	378.72
6	GUIDE	472655152	9.43	726	0.003	-0.006	0.093	0.149	332.504239	45.862991	-571.97	410.33
7	GUIDE	472646552	9.64	726	0.064	-0.044	0.120	0.183	333.120915	45.571877	-795.85	2267.77

2.4 Star Slots

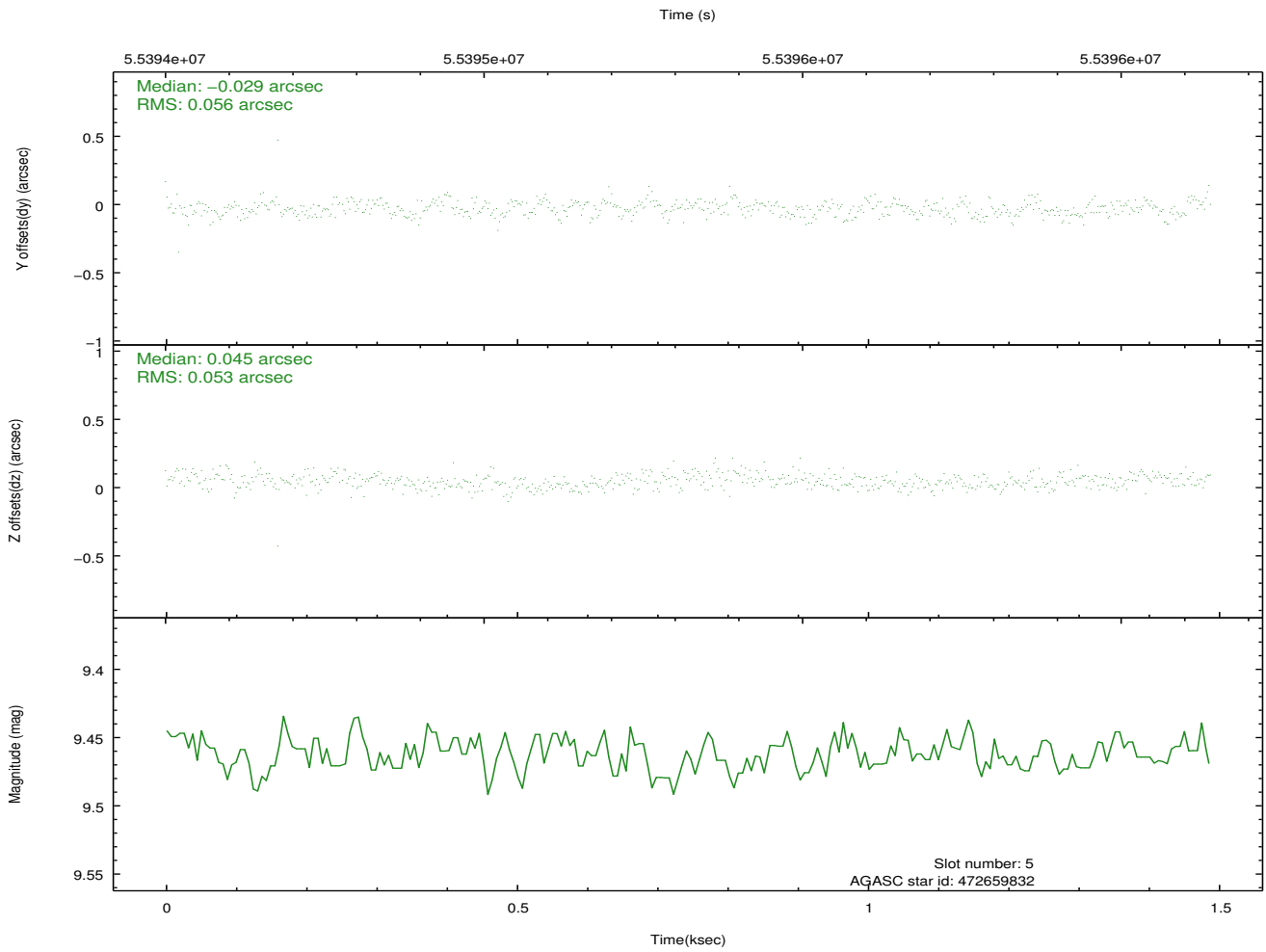
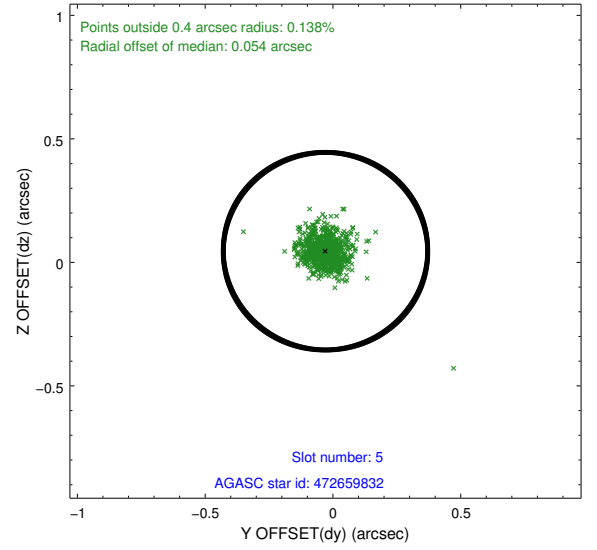
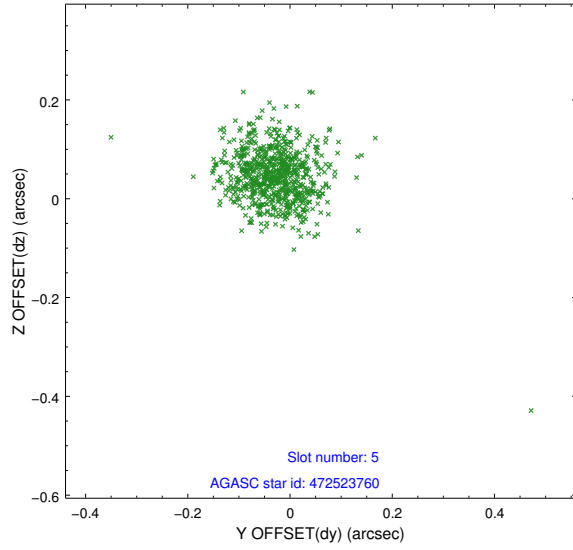
2.4.1 Slot 3



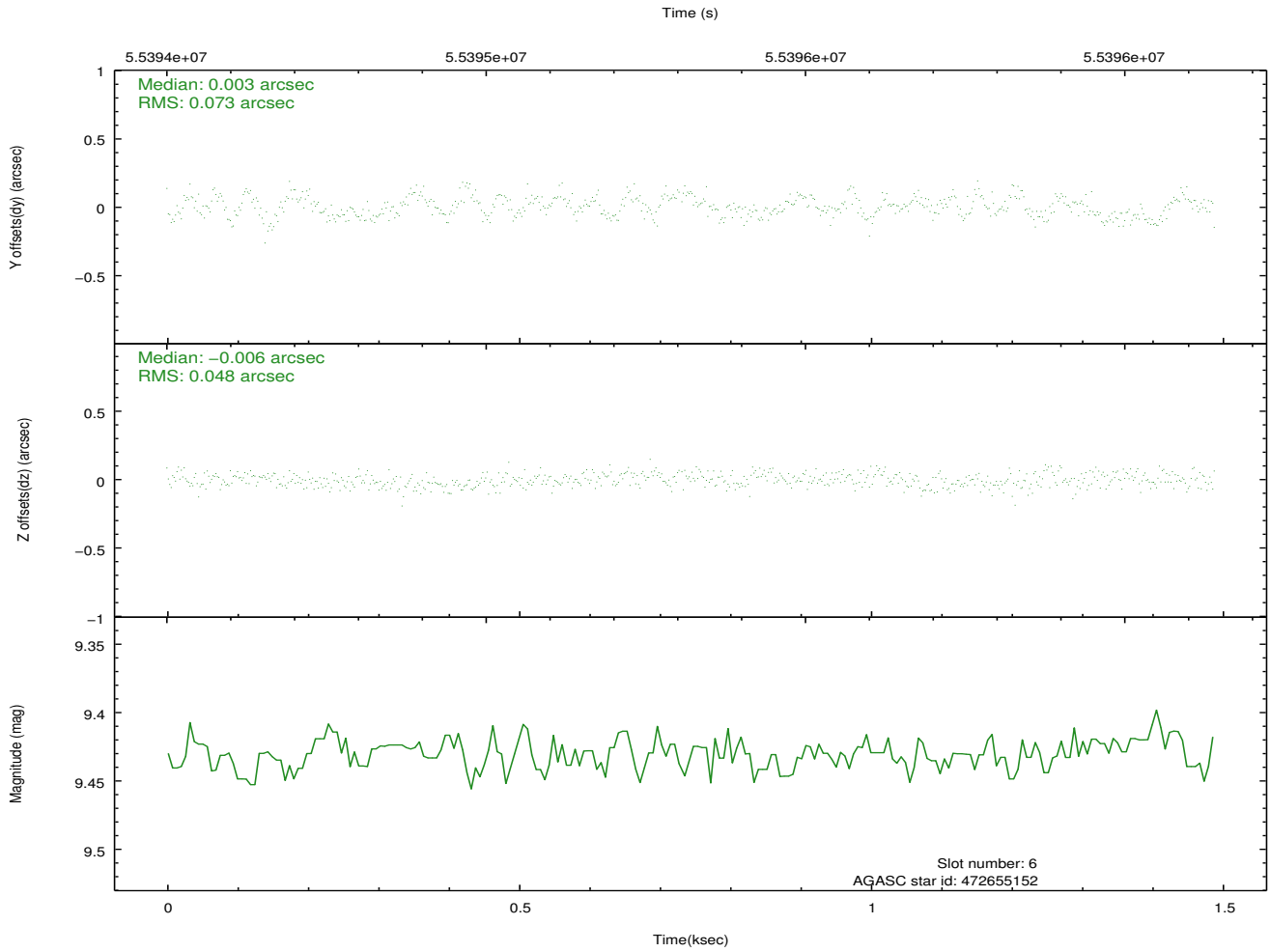
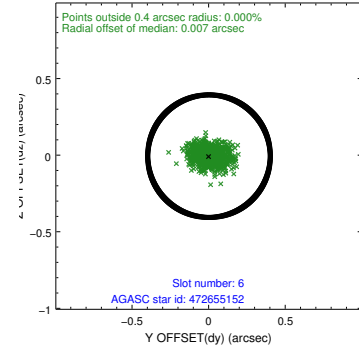
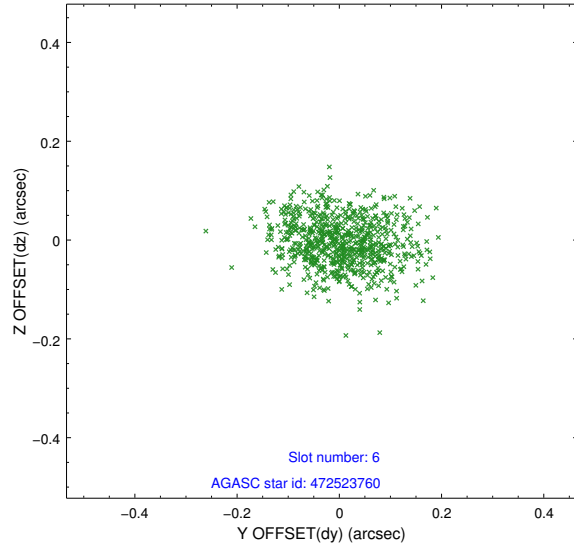
2.4.2 Slot 4



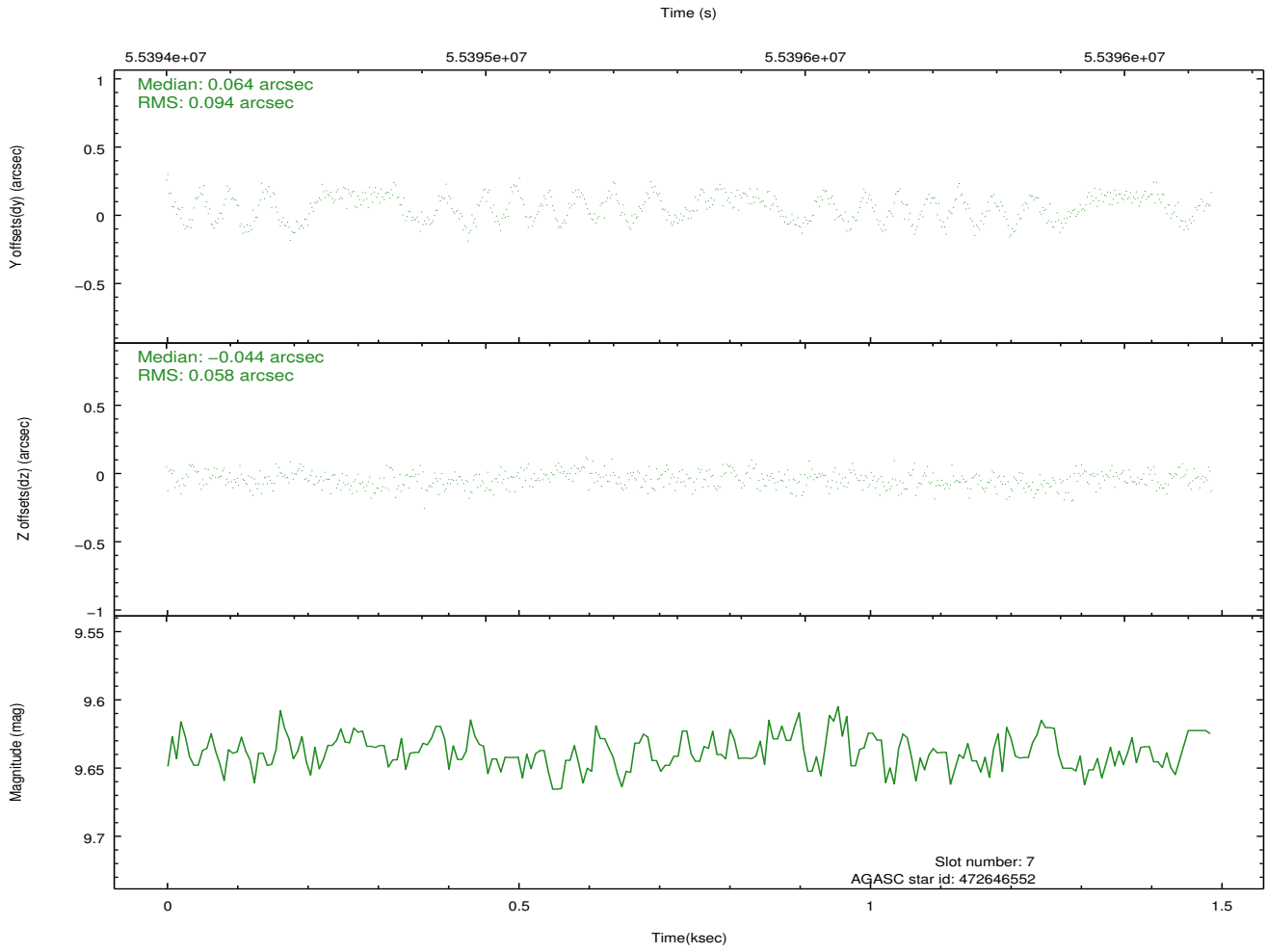
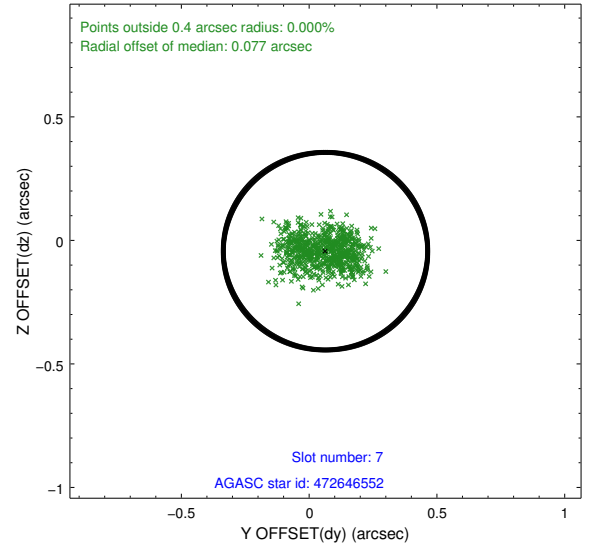
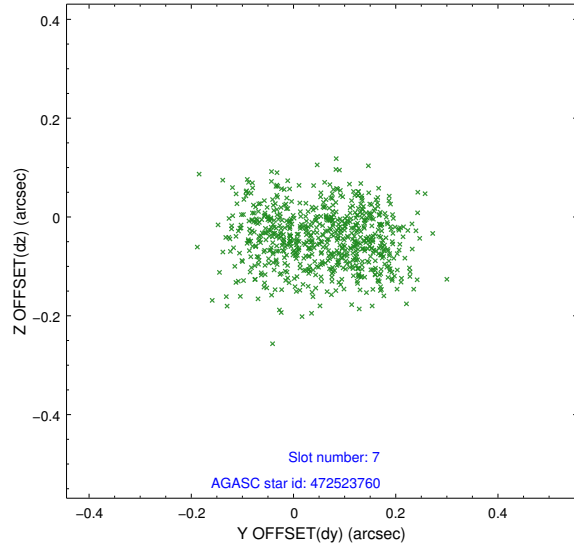
2.4.3 Slot 5



2.4.4 Slot 6

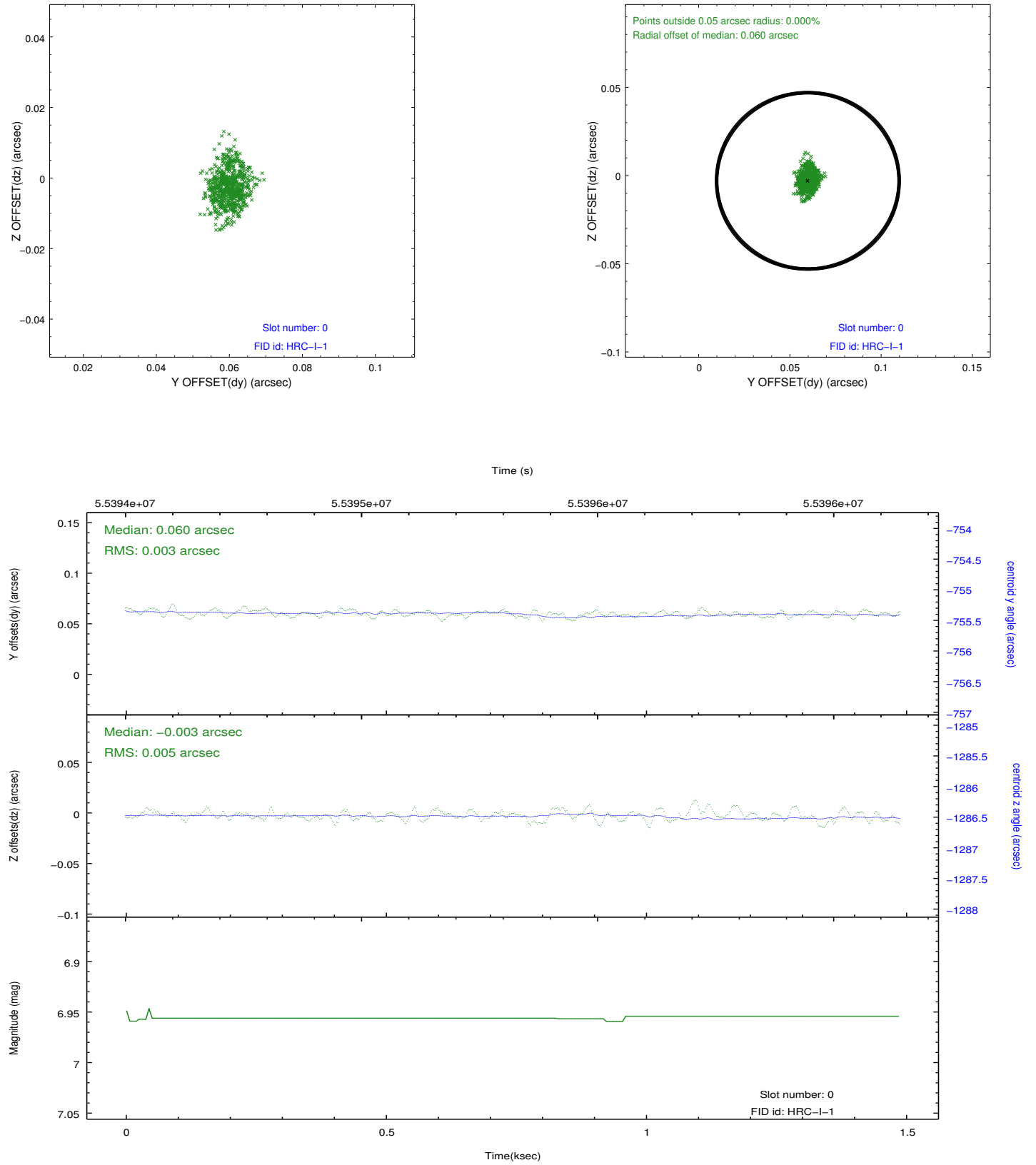


2.4.5 Slot 7

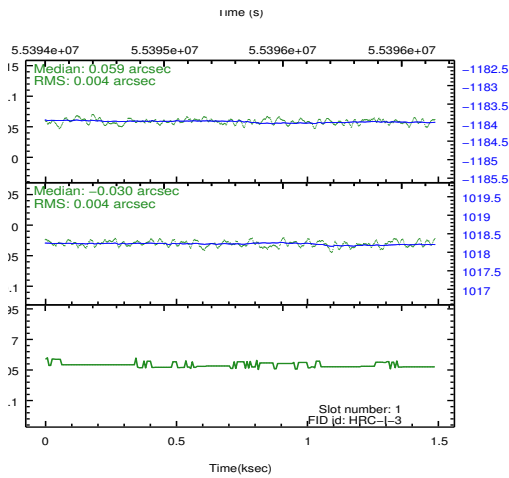
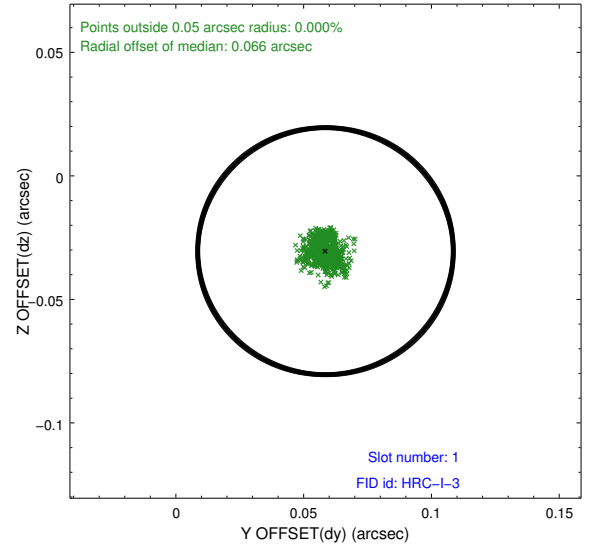
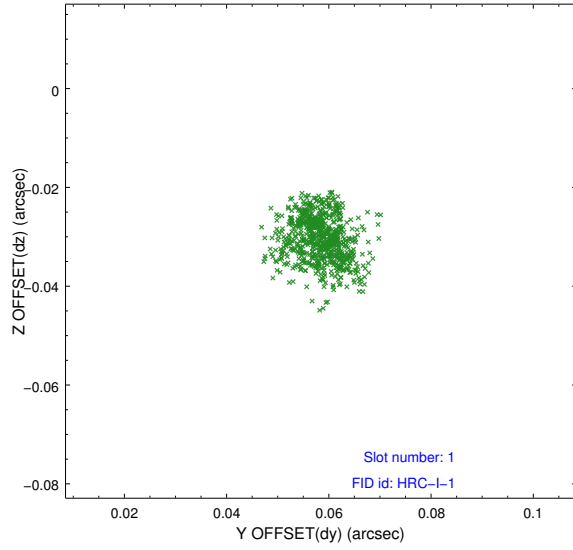


2.5 FID Slots

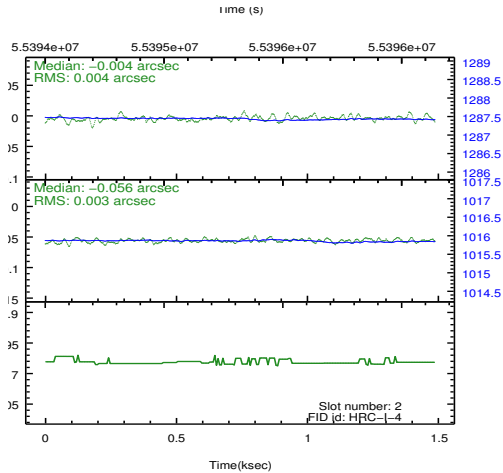
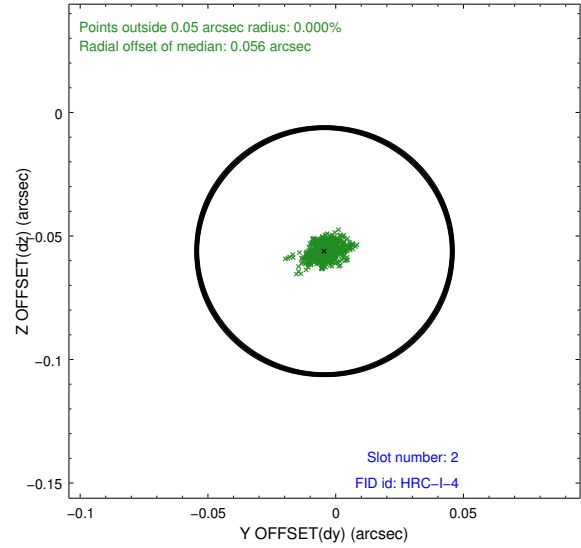
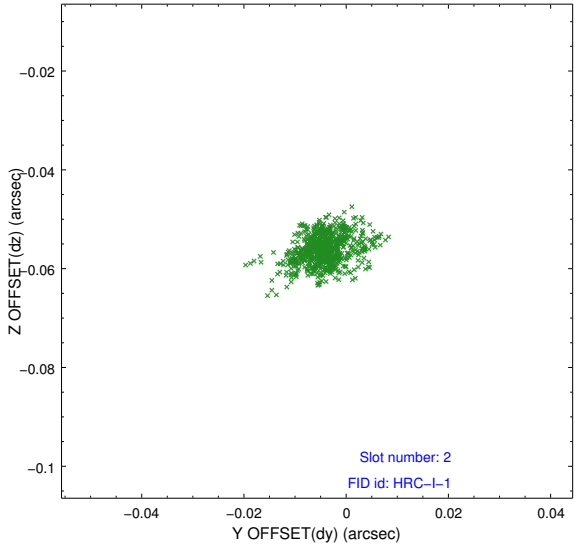
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

15.85 arcmin



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.274

A.2 Comments

The ObsID series 1319-1382 were intended to access the HRC-I gain variation across the detector as a function of MCP HV. They were performed as triples (3 different HV settings at each Y-/Z-offset). The best HRC-I focus was not determined at the time the observations were performed (the data to determine that were being analyzed during this series).