

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12076 - L2 Version 2
Chandra X-Ray Center

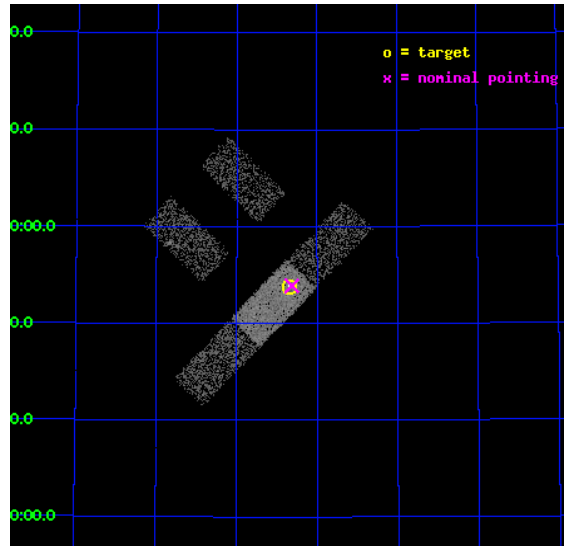
L2 Processing Date : Jun 19 2012

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1 Front

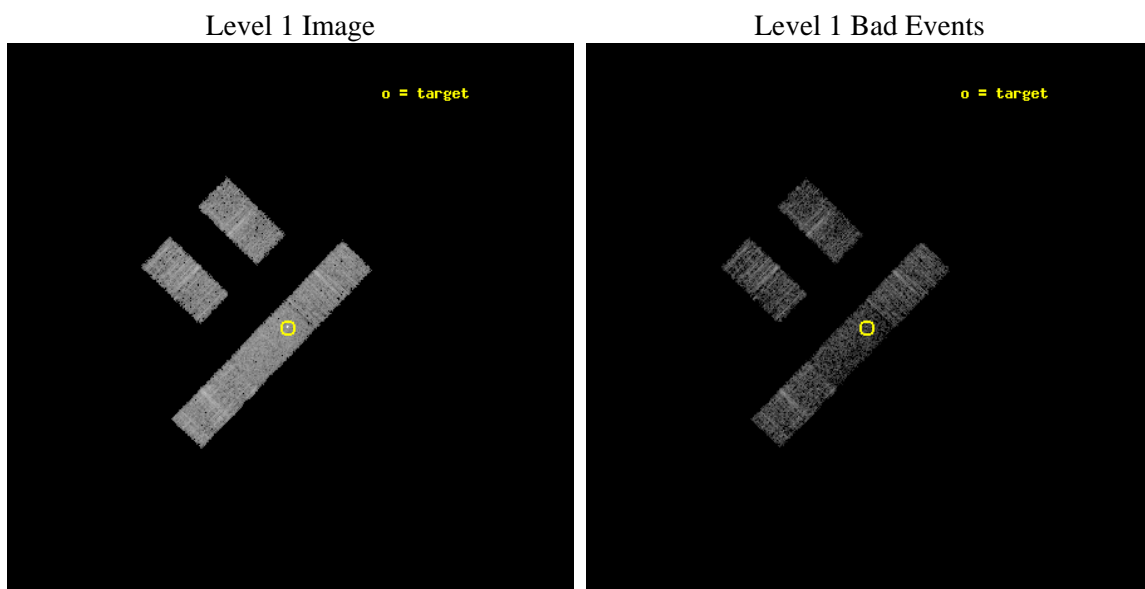
seq_num	702306	Sequence number
obs_id	12076	Observation id
title	Gravitationally lensed quasar Q0957+561AB in outburst	Proposal tit
observer	Dr Luis Goicoechea	Principal investigator
object	Q0957+561	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.336667	Observer's specified target RA [deg]
dec_targ	55.897056	Observer's specified target Dec [deg]
ra_nom	150.32835252909	Nominal RA [deg]
dec_nom	55.898092719454	Nominal Dec [deg]
roll_nom	133.99442736566	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3059.9999786019	Sum of GTIs [s]
livetime	2987.8692985935	Livetime [s]
ontime2	3059.9999786019	Sum of GTIs [s]
ontime3	3059.9999786019	Sum of GTIs [s]
ontime6	3059.9999786019	Sum of GTIs [s]
ontime7	3059.9999786019	Sum of GTIs [s]
ontime8	3059.9999786019	Sum of GTIs [s]
l2events	13321	Number of level 2 events



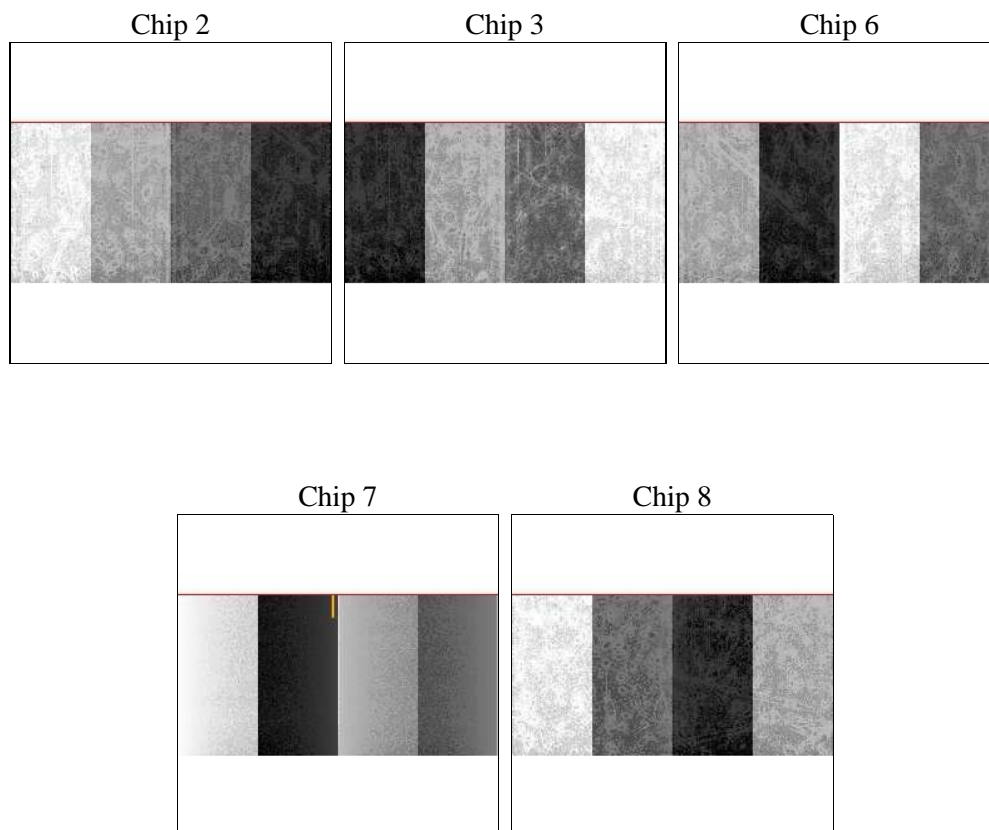
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3059.9999786019	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	3059.9999786019	Sum of GTIs [s]
date	2012-06-19T21:53:37	Date and time of file creation	ontime3	3059.9999786019	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3059.9999786019	Sum of GTIs [s]
			ontime7	3059.9999786019	Sum of GTIs [s]
			ontime8	3059.9999786019	Sum of GTIs [s]
			l1events	79260	Number of level 1 events

2.1.4 Events

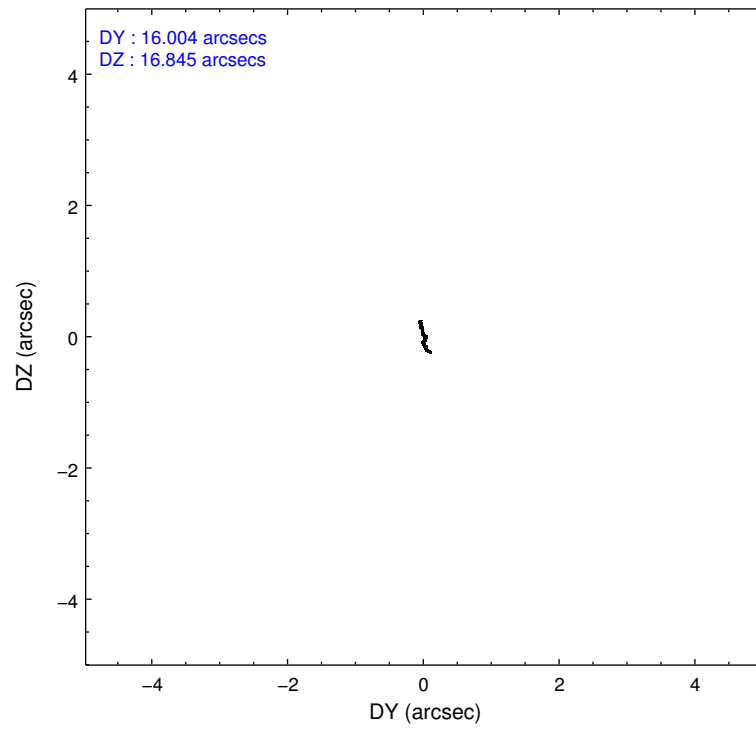
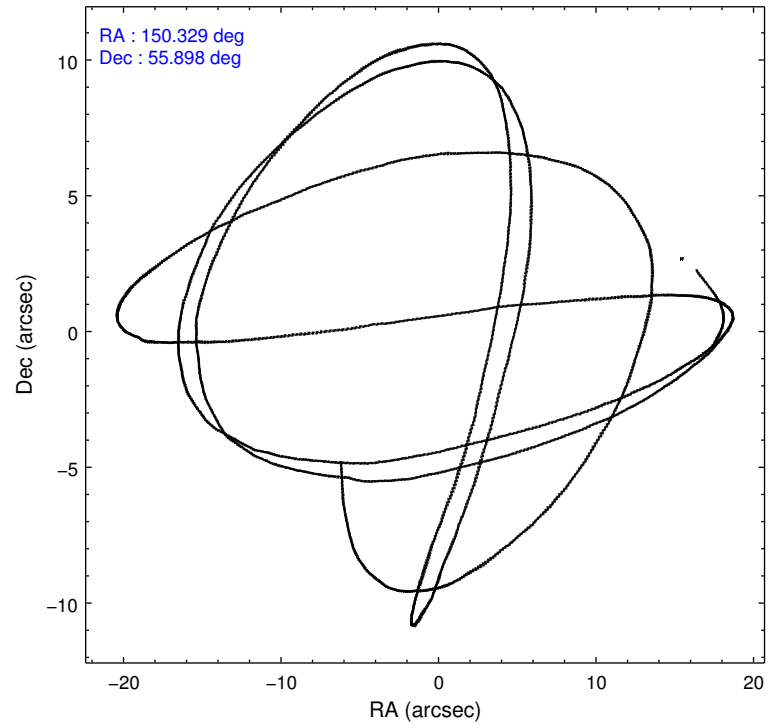
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13716	15198	14964	16742	18640
rejected events	12266	13749	13454	8434	13899
rejected %	89%	90%	89%	50%	74%

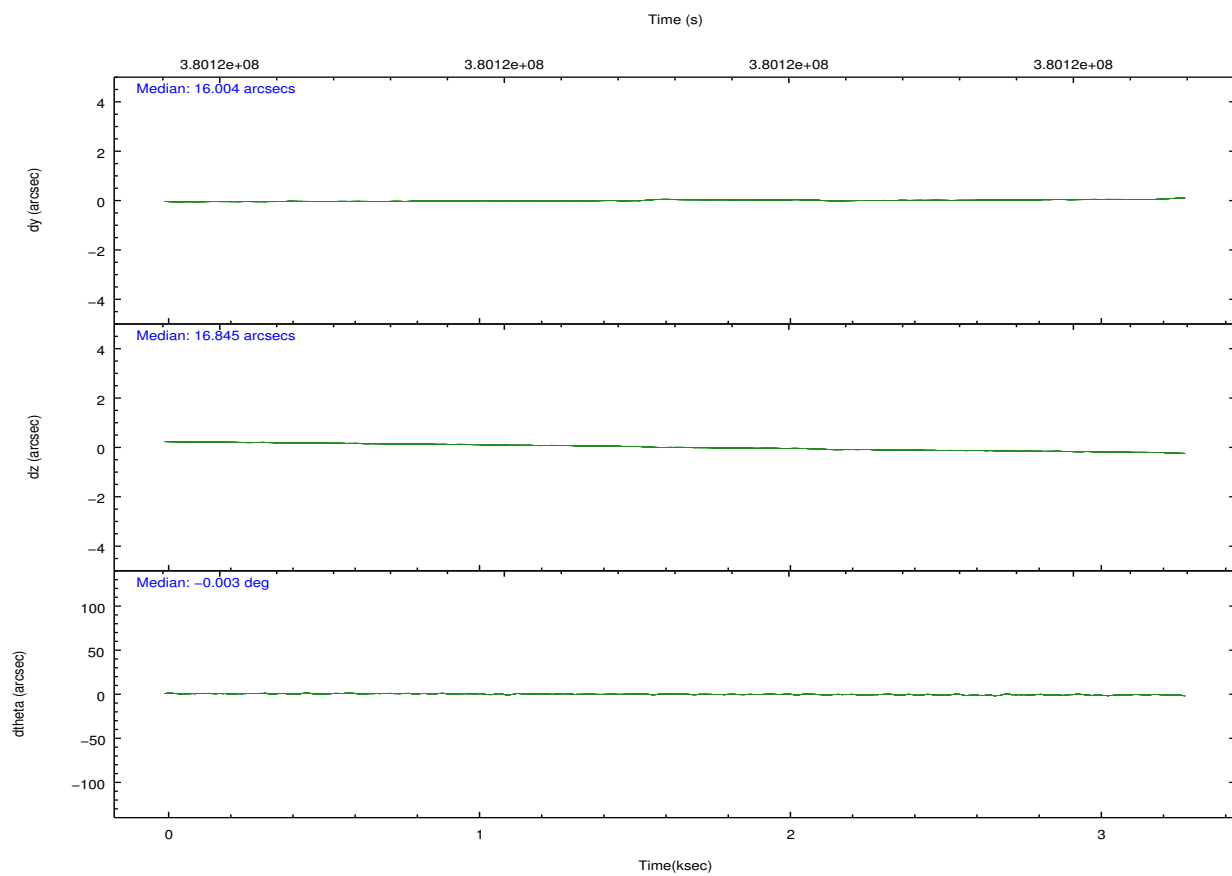
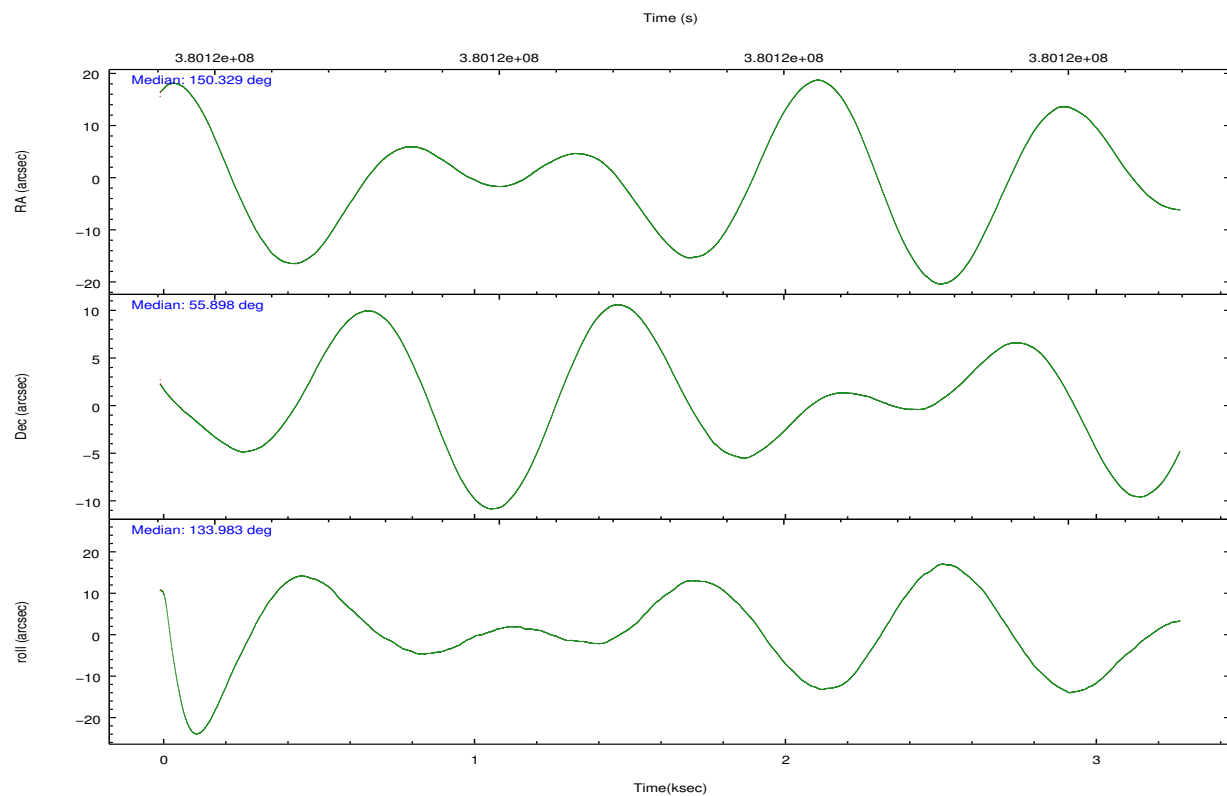
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	470	492	497	1005	1385
	3%	3%	3%	6%	7%
grade 1 events	5	5	8	30	11
	0%	0%	0%	0%	0%
grade 2 events	339	301	323	1778	1058
	2%	1%	2%	10%	5%
grade 3 events	180	192	177	864	512
	1%	1%	1%	5%	2%
grade 4 events	196	169	210	866	534
	1%	1%	1%	5%	2%
grade 5 events	509	547	584	1695	869
	3%	3%	3%	10%	4%
grade 6 events	269	297	304	3808	1254
	1%	1%	2%	22%	6%
grade 7 events	11748	13195	12861	6696	13017
	85%	86%	85%	39%	69%

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	150.375338	150.3283525290853	CCD I2 on	O4	Y
[deg] Pointing Dec	55.891060	55.89809271945375	CCD I3 on	O3	Y
[deg] Pointing Roll	133.798733	133.9944273656619	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	O1	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	O2	Y
[s] Observation start time (MET)	380120238.184000	380119438.88393	CCD S5 on	N	N
Observation start date	2010-01-17T12:56:12	2010-01-17T12:43:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380123238.184000	380123582.44664	On-chip summing requested	N	N
Observation end date	2010-01-17T13:46:12	2010-01-17T13:53:02	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



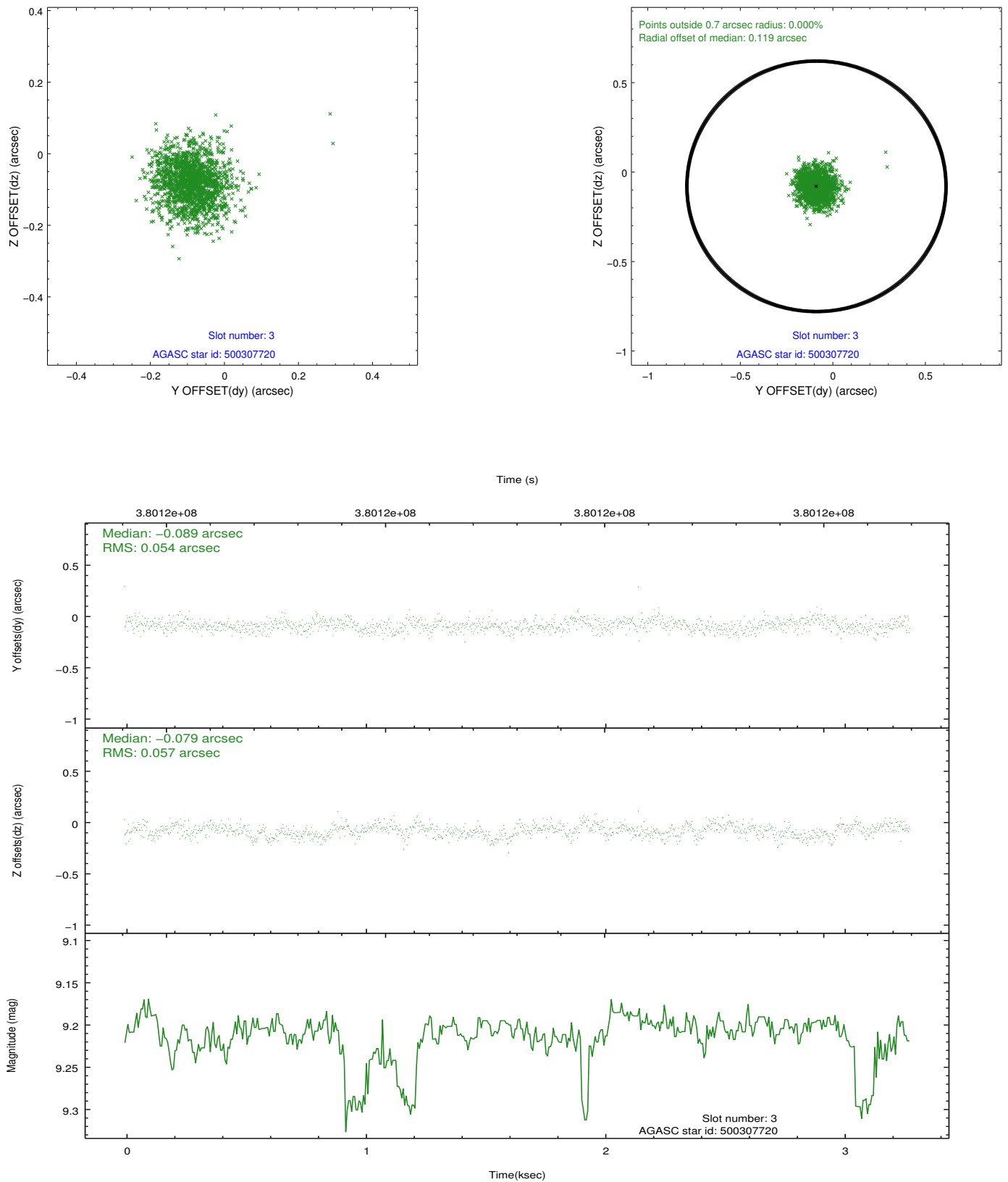


Slot Statistics

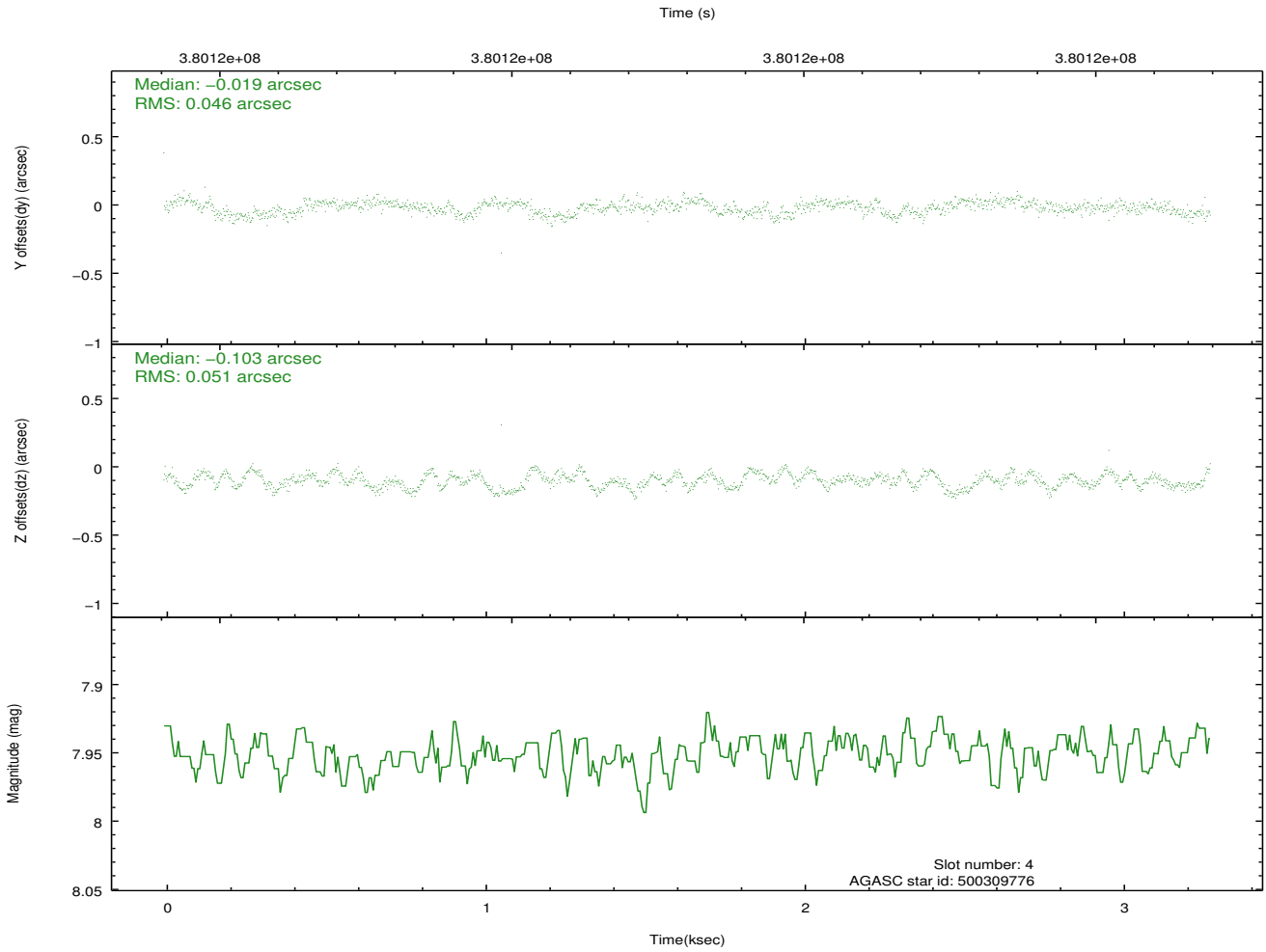
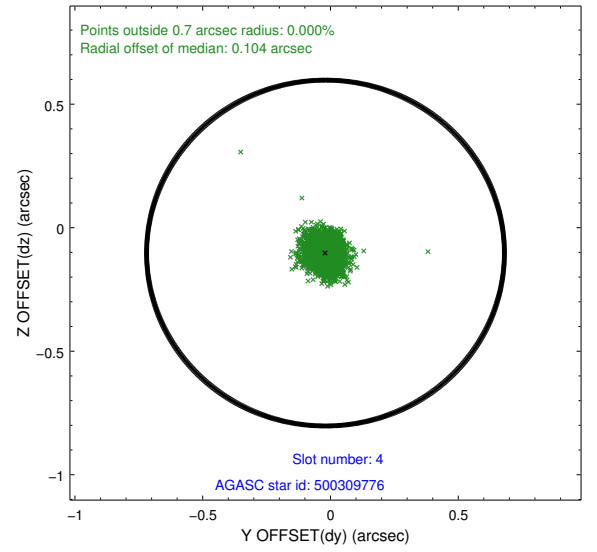
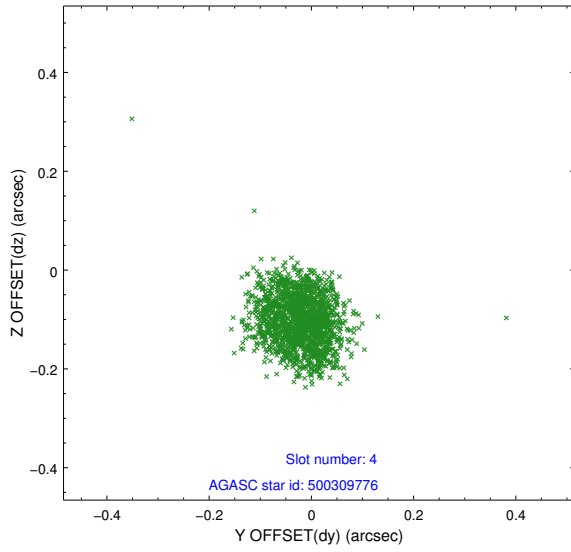
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	801	-0.072	-0.018	0.008	0.013	0.000000	0.000000	-769.10	-1738.24
1	FID	ACIS-S-4	6.97	801	0.155	0.040	0.005	0.011	0.000000	0.000000	2143.54	168.25
2	FID	ACIS-S-5	7.01	801	-0.114	-0.013	0.008	0.013	0.000000	0.000000	-1819.48	164.13
3	GUIDE	500307720	9.21	1594	-0.089	-0.079	0.082	0.133	149.835368	56.109010	1319.89	236.53
4	GUIDE	500309776	7.95	1600	-0.019	-0.103	0.073	0.111	150.409238	55.585087	-843.70	716.85
5	GUIDE	500310128	9.22	1599	0.029	-0.182	0.100	0.167	150.281852	55.096051	-1932.90	2119.77
6	GUIDE	500437816	8.68	1601	0.110	0.182	0.096	0.159	151.181905	56.134575	-480.64	-1779.52
7	GUIDE	500442560	7.01	1600	-0.030	0.181	0.059	0.096	151.619747	55.769496	-2043.26	-1532.94

2.4 Star Slots

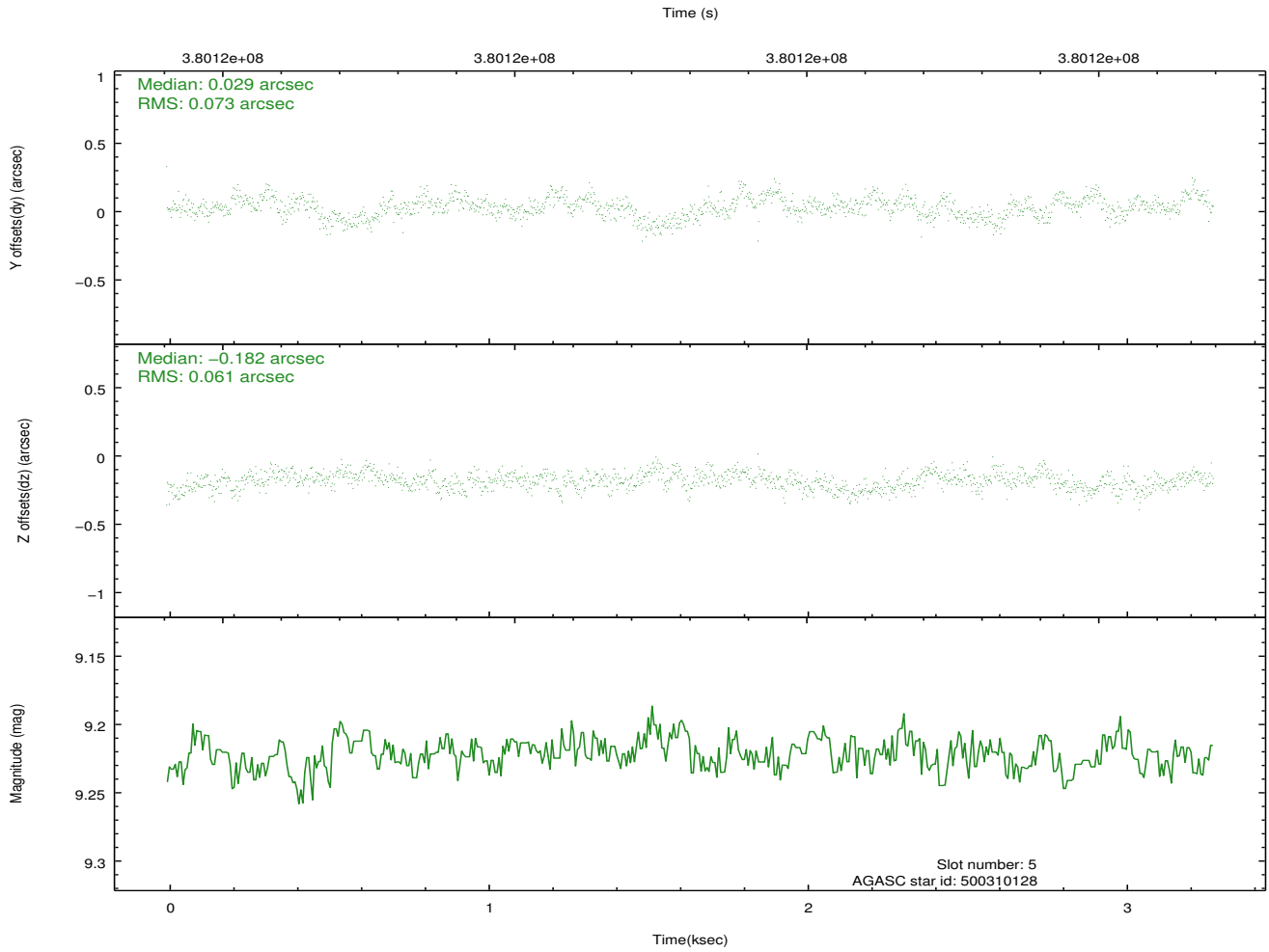
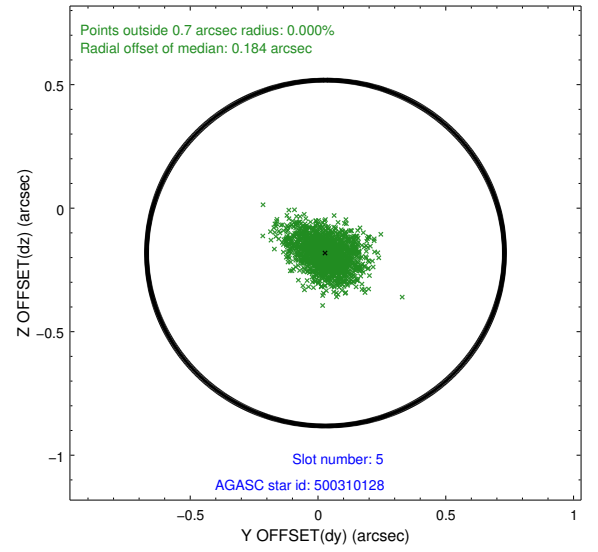
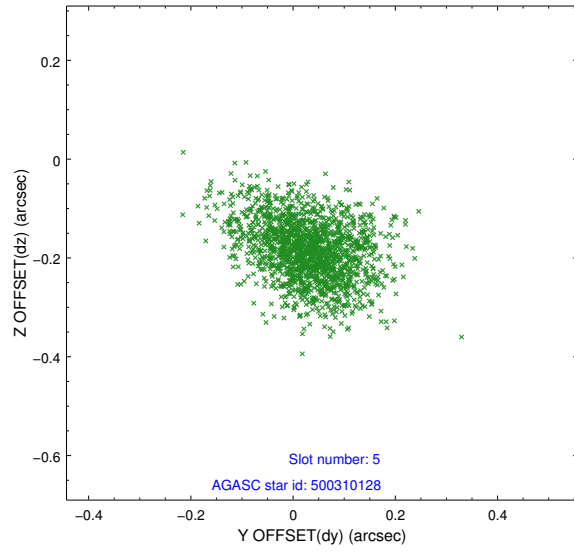
2.4.1 Slot 3



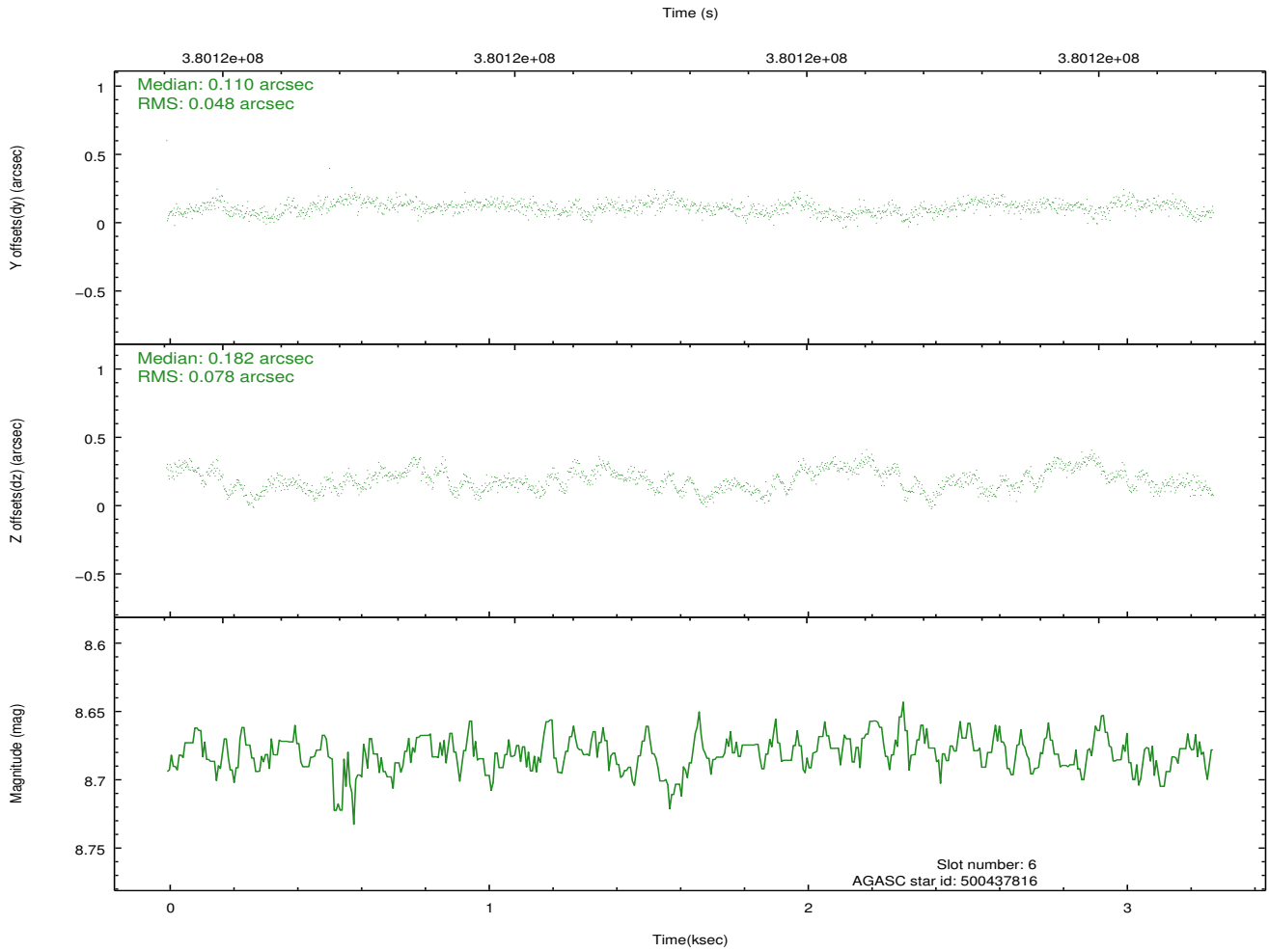
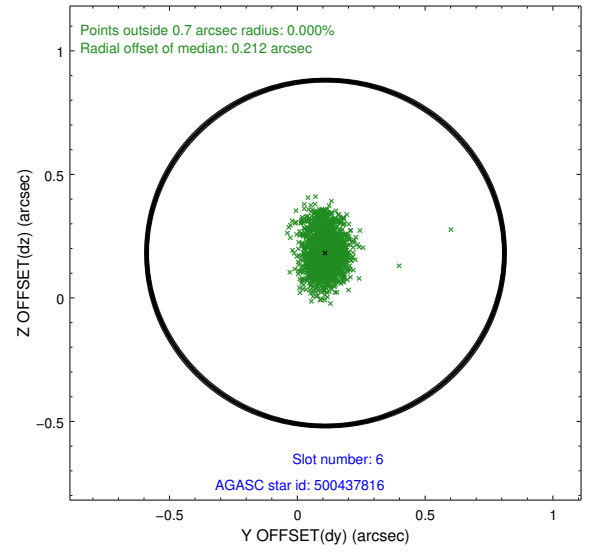
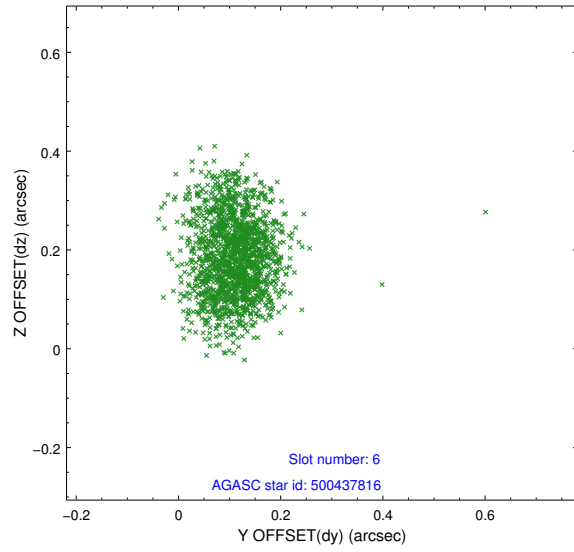
2.4.2 Slot 4



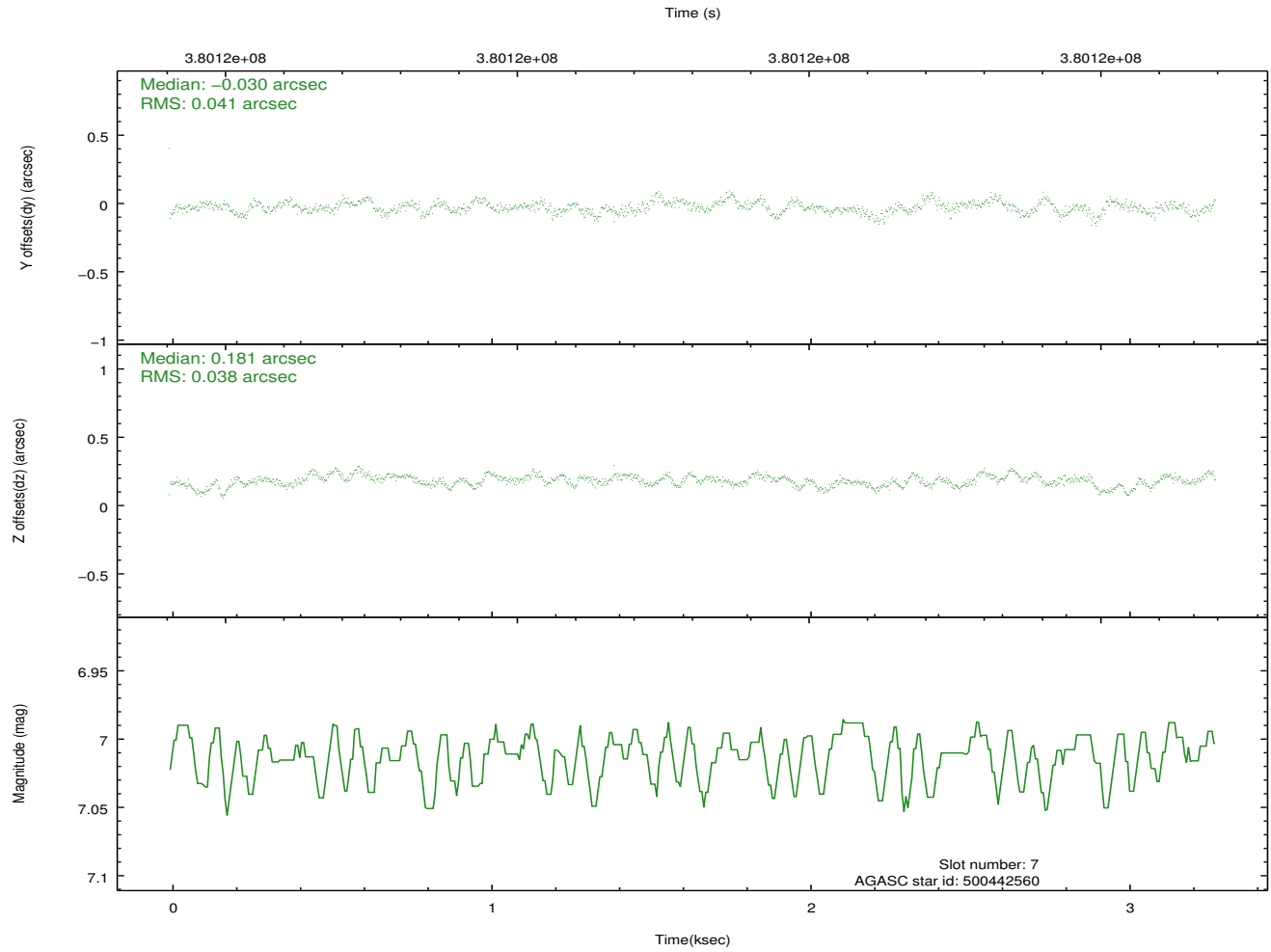
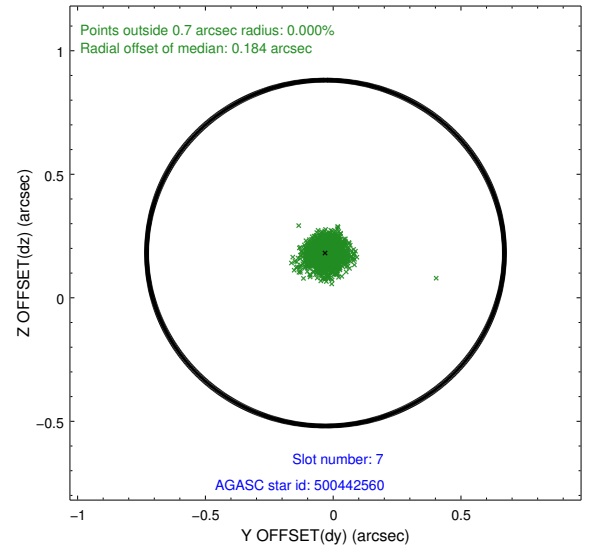
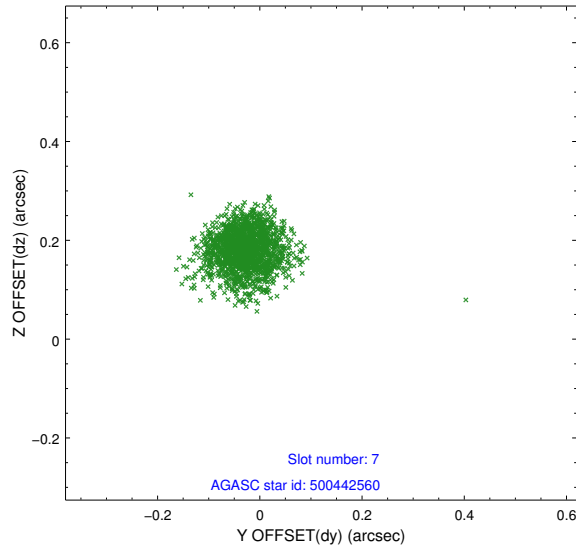
2.4.3 Slot 5



2.4.4 Slot 6

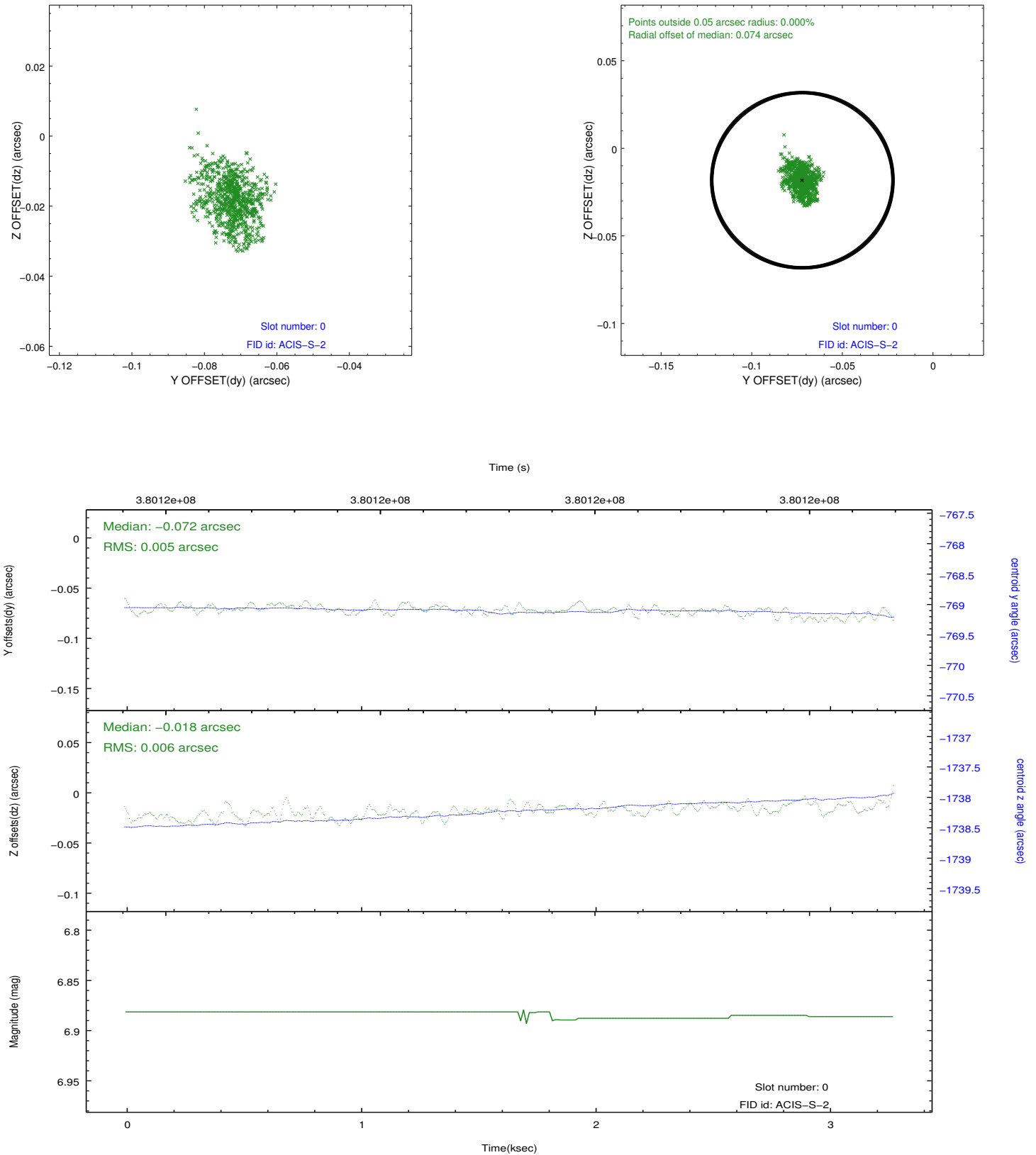


2.4.5 Slot 7

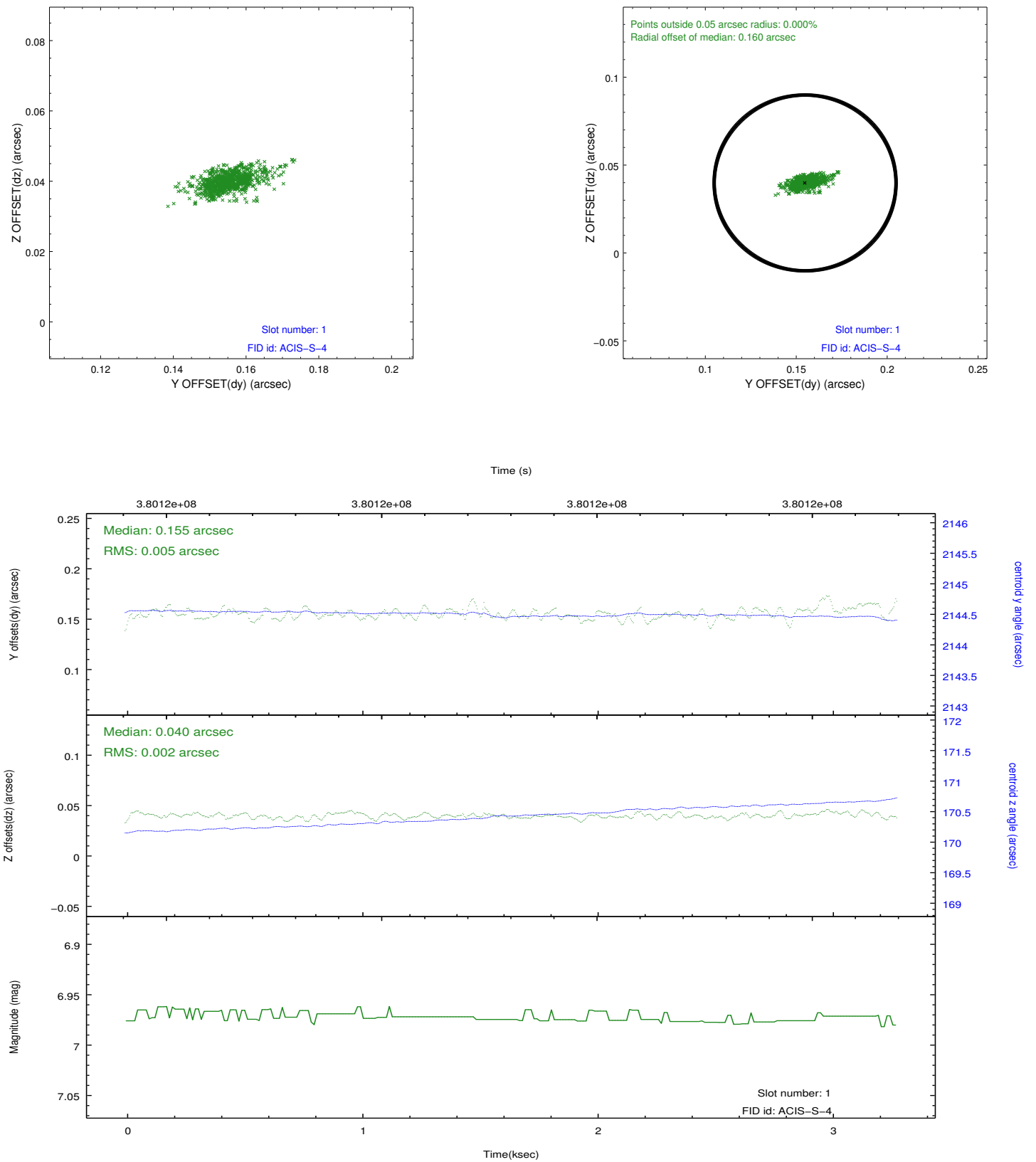


2.5 FID Slots

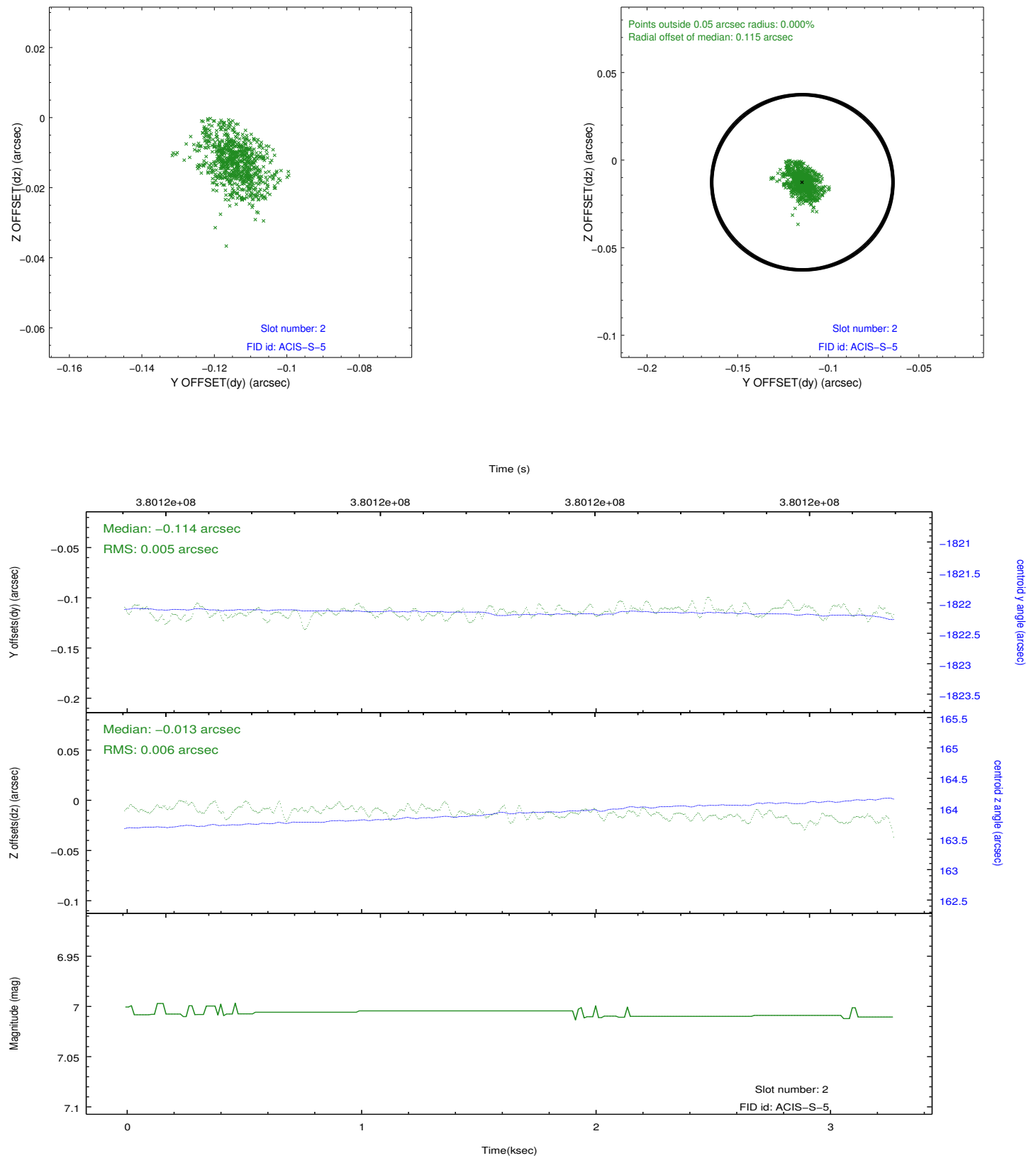
2.5.1 Slot 0



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)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0599999786019

A.2 Comments