

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 4925 - L2 Version 3  
Chandra X-Ray Center

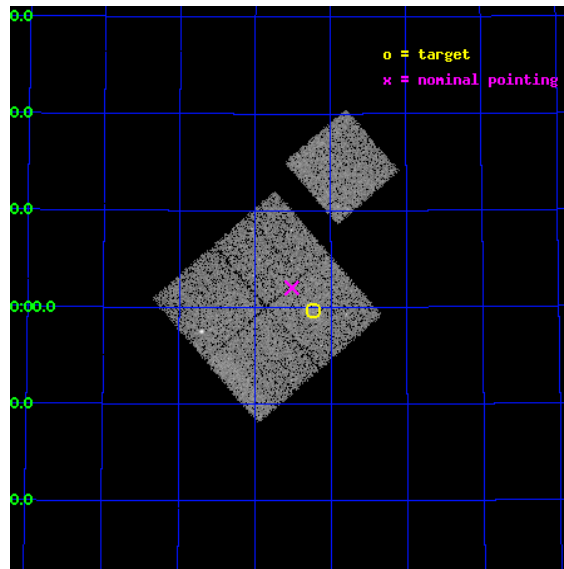
L2 Processing Date : Dec 8 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

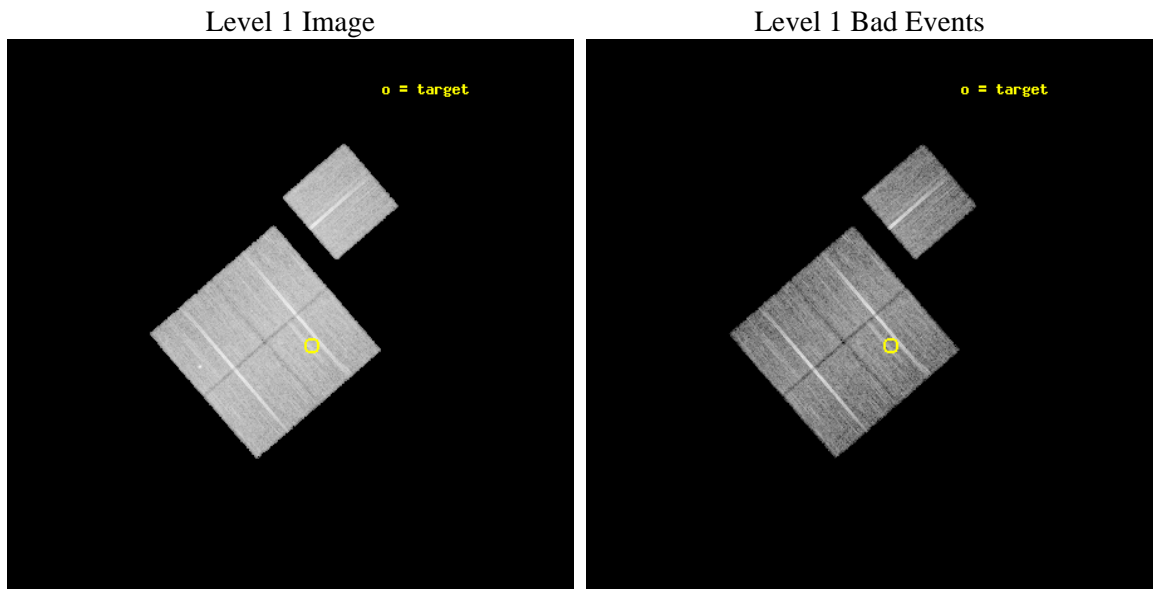
seq_num	800376	Sequence number
obs_id	4925	Observation id
title	Chandra snapshot survey of 10 distant clusters of galaxies	Proposa
observer	Dr. Stephen Murray	Principal investigator
object	CL0853+5759	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	133.30875	Observer's specified target RA [deg]
dec_targ	57.994167	Observer's specified target Dec [deg]
ra_nom	133.37862076664	Nominal RA [deg]
dec_nom	58.03391924455	Nominal Dec [deg]
roll_nom	49.128543306016	Nominal Roll [deg]
revision	3	Processing version of data
ontime	18023.399965316	Sum of GTIs [s]
livetime	17787.910976135	Livetime [s]
ontime0	18023.399965316	Sum of GTIs [s]
ontime1	18020.258975178	Sum of GTIs [s]
ontime2	18020.258975178	Sum of GTIs [s]
ontime3	18023.399965316	Sum of GTIs [s]
ontime6	18020.25900507	Sum of GTIs [s]
l2events	48230	Number of level 2 events



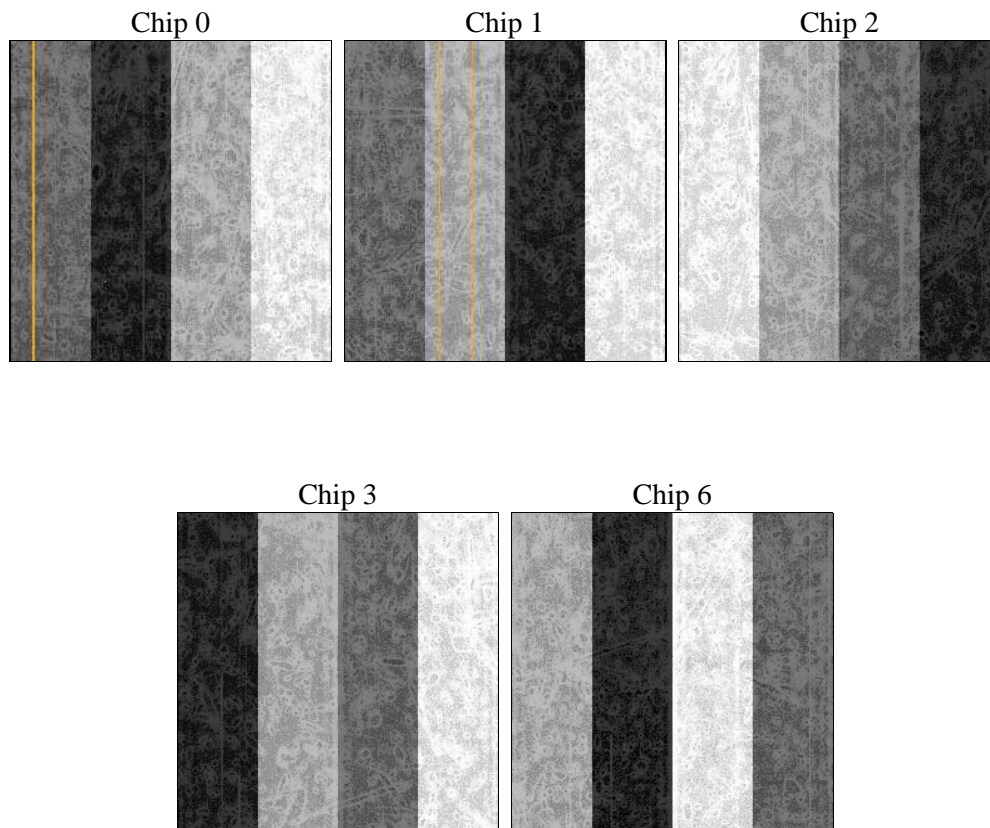
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	17974.283000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	18023.399965316	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime0	18023.399965316	Sum of GTIs [s]
date	2012-12-09T01:19:19	Date and time of file creation	ontime1	18020.258975178	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	18020.258975178	Sum of GTIs [s]
			ontime3	18023.399965316	Sum of GTIs [s]
			ontime6	18020.25900507	Sum of GTIs [s]
			l1events	522946	Number of level 1 events

### 2.1.4 Events

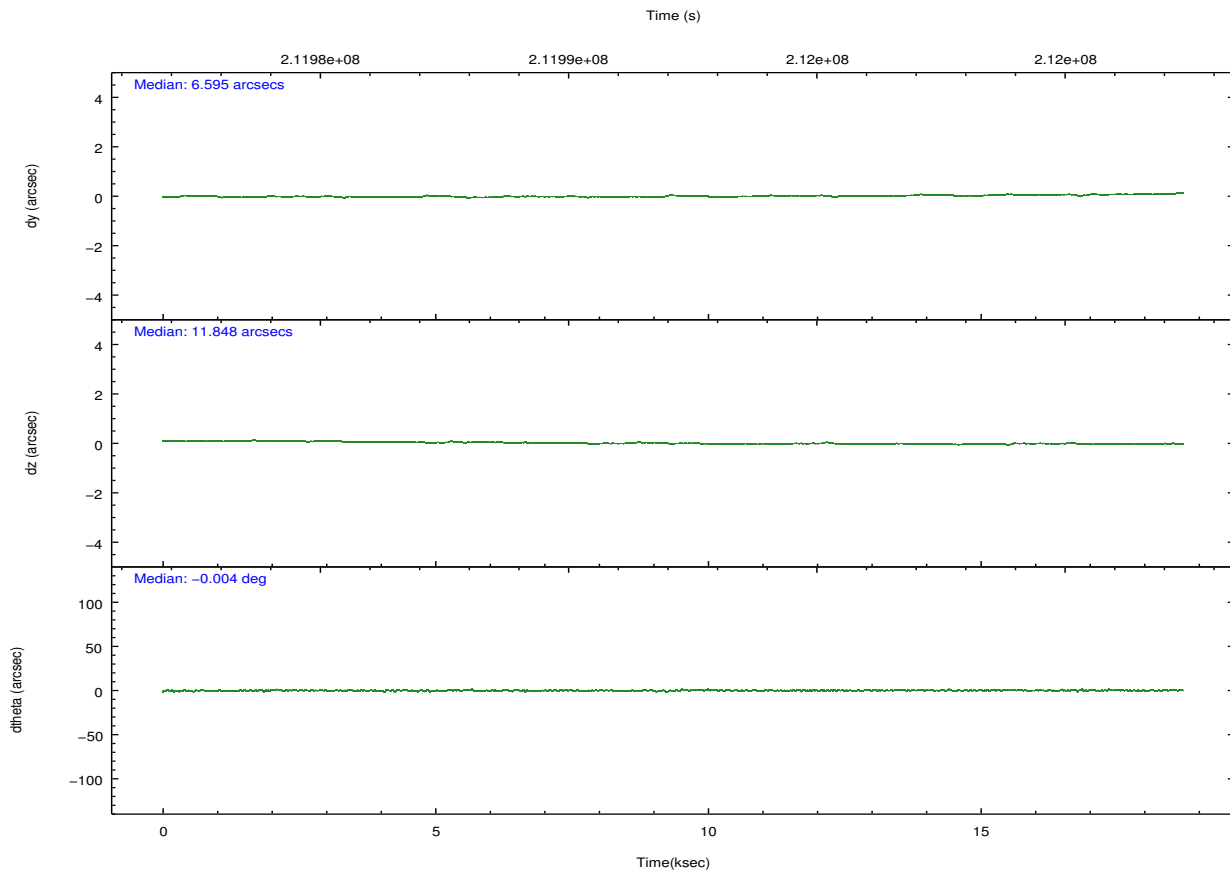
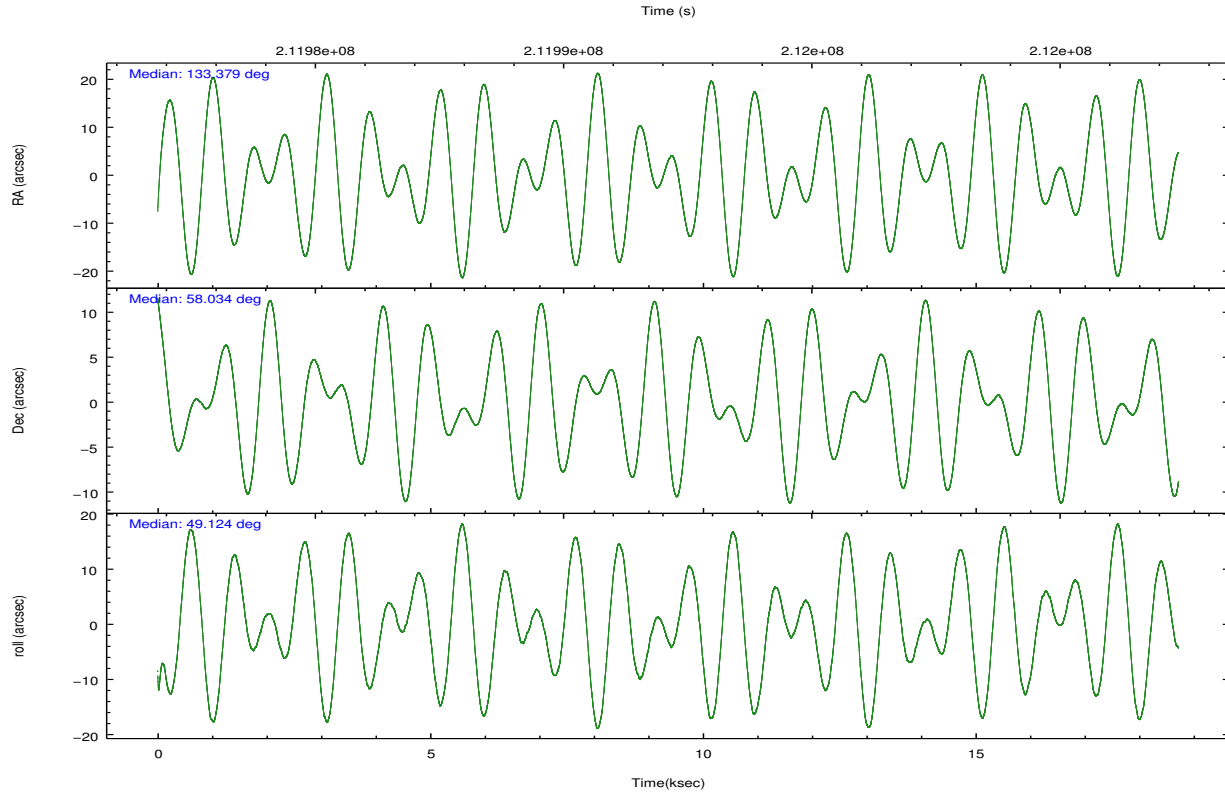
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	101346	99397	111154	106954	104095
rejected events	89916	86926	100000	95823	92624
rejected %	88%	87%	89%	89%	88%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4392	4800	4297	4475	4422
	4%	4%	3%	4%	4%
grade 1 events	48	52	65	57	41
	0%	0%	0%	0%	0%
grade 2 events	2606	2633	2489	2239	2311
	2%	2%	2%	2%	2%
grade 3 events	1248	1354	1183	1214	1263
	1%	1%	1%	1%	1%
grade 4 events	1154	1305	1199	1181	1167
	1%	1%	1%	1%	1%
grade 5 events	3725	3982	3460	4185	4164
	3%	4%	3%	3%	4%
grade 6 events	2035	2389	1991	2026	2316
	2%	2%	1%	1%	2%
grade 7 events	86138	82882	96470	91577	88411
	84%	83%	86%	85%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	133.369063	133.3786207666363	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.007017	58.03391924454999	Alternating exposures requested	N	N
[deg] Pointing Roll	48.927974	49.12854330601554	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	211983488.184000	211982279.96086			
Observation start date	2004-09-19T12:17:04	2004-09-19T11:57:59			
[s] Observation end time (MET)	212001462.184000	212001688.33673			
Observation end date	2004-09-19T17:16:38	2004-09-19T17:21:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect

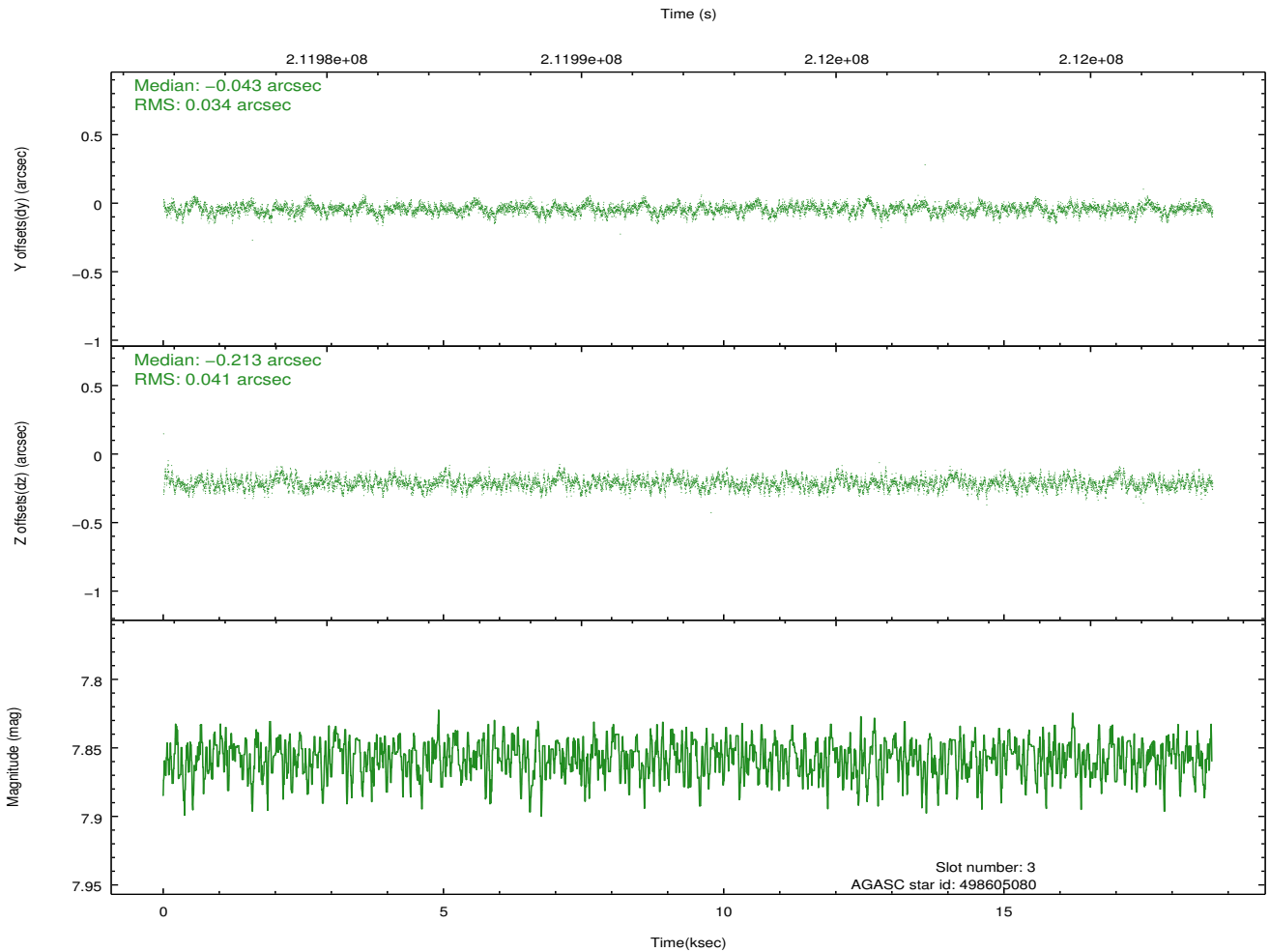
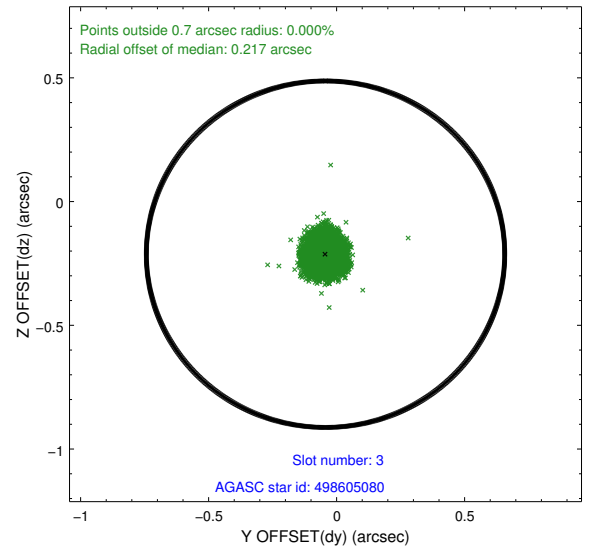
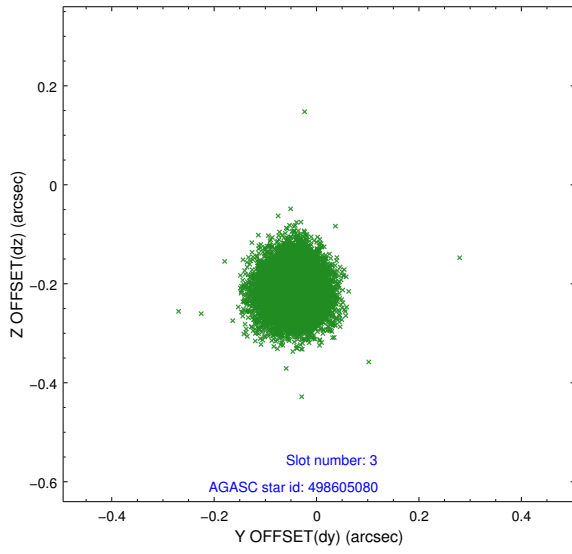


### Slot Statistics

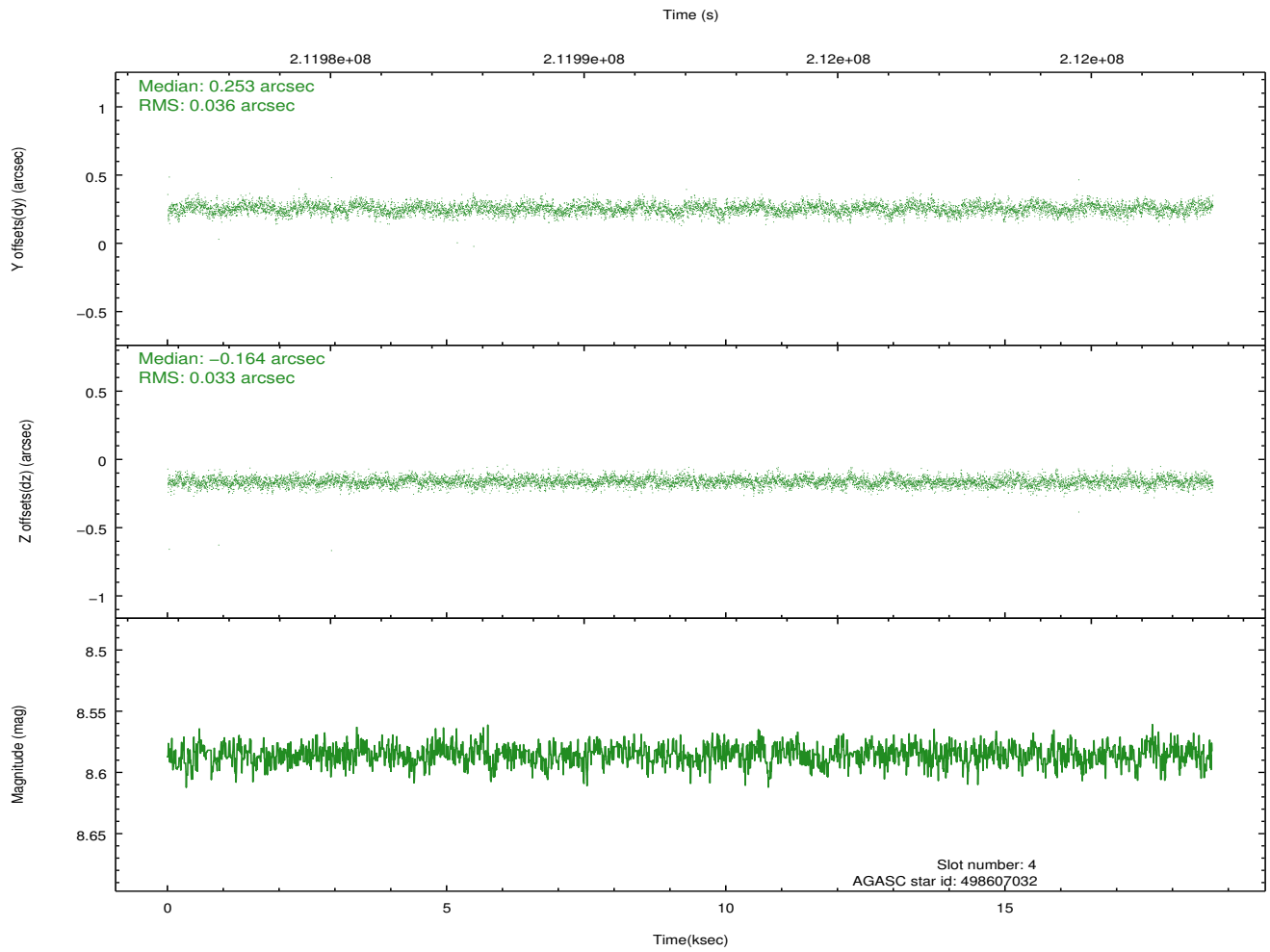
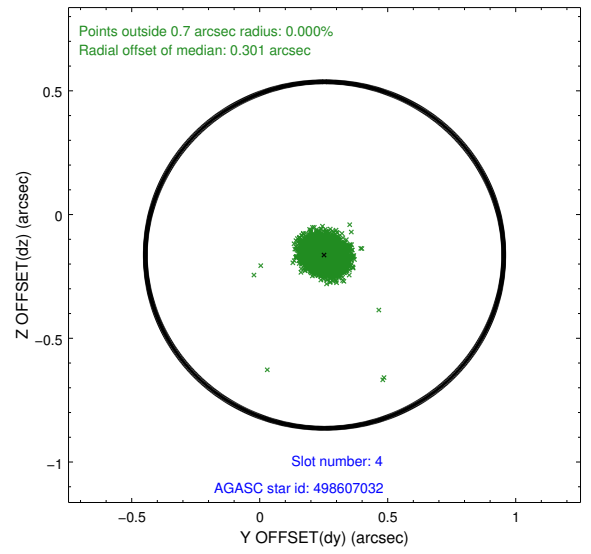
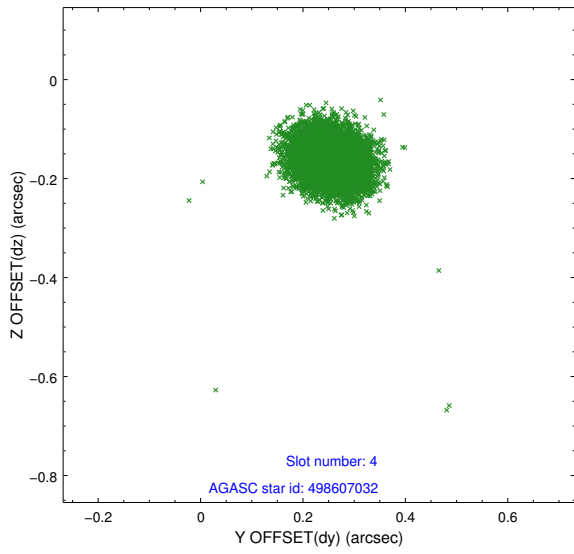
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	4566	0.087	-0.205	0.008	0.013	0.000000	0.000000	933.06	-994.59
1	FID	ACIS-I-4	7.14	4565	-0.020	0.125	0.007	0.012	0.000000	0.000000	2152.63	906.40
2	FID	ACIS-I-5	7.22	4566	-0.165	0.151	0.006	0.012	0.000000	0.000000	-1814.97	903.45
3	GUIDE	498605080	7.86	9132	-0.043	-0.213	0.057	0.090	132.876712	58.368027	371.72	1556.88
4	GUIDE	498607032	8.59	9131	0.253	-0.164	0.051	0.084	132.440614	57.644577	-2149.15	499.28
5	GUIDE	499133280	8.20	9128	0.007	0.168	0.076	0.117	133.516909	57.280858	-1781.34	-1934.03
6	GUIDE	499519688	7.29	9132	-0.164	0.267	0.076	0.115	134.354711	58.218797	1812.88	-898.61
7	GUIDE	499522008	8.69	9124	-0.050	-0.062	0.085	0.143	135.052818	58.103026	2395.48	-2160.92

## 2.4 Star Slots

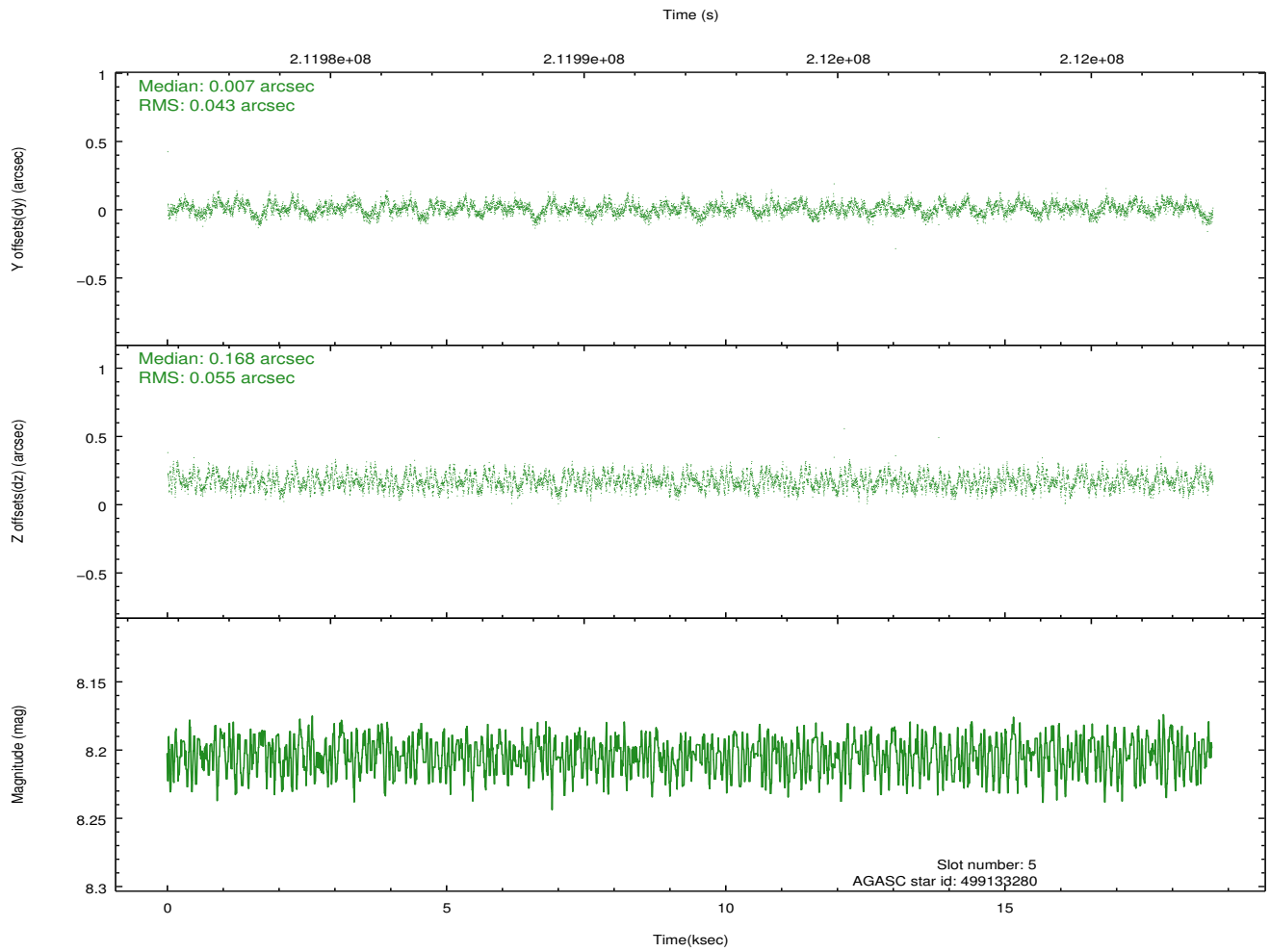
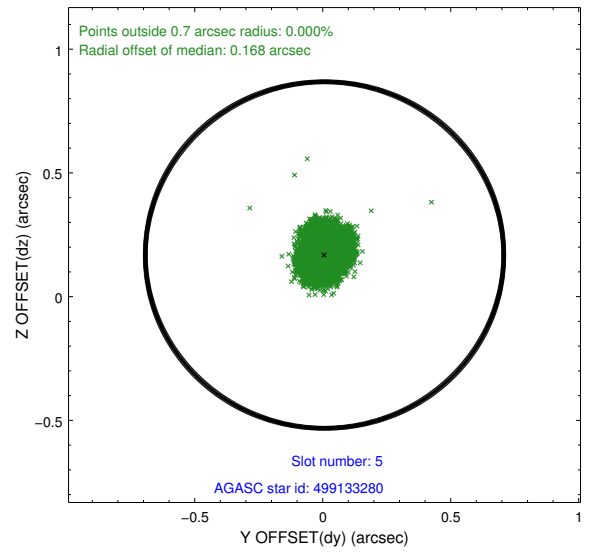
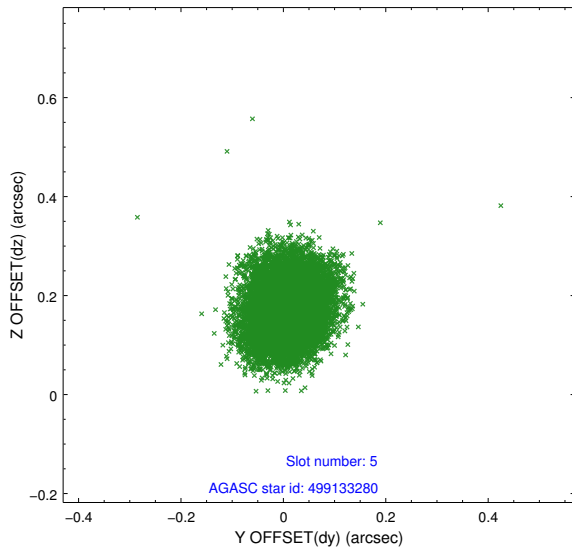
### 2.4.1 Slot 3



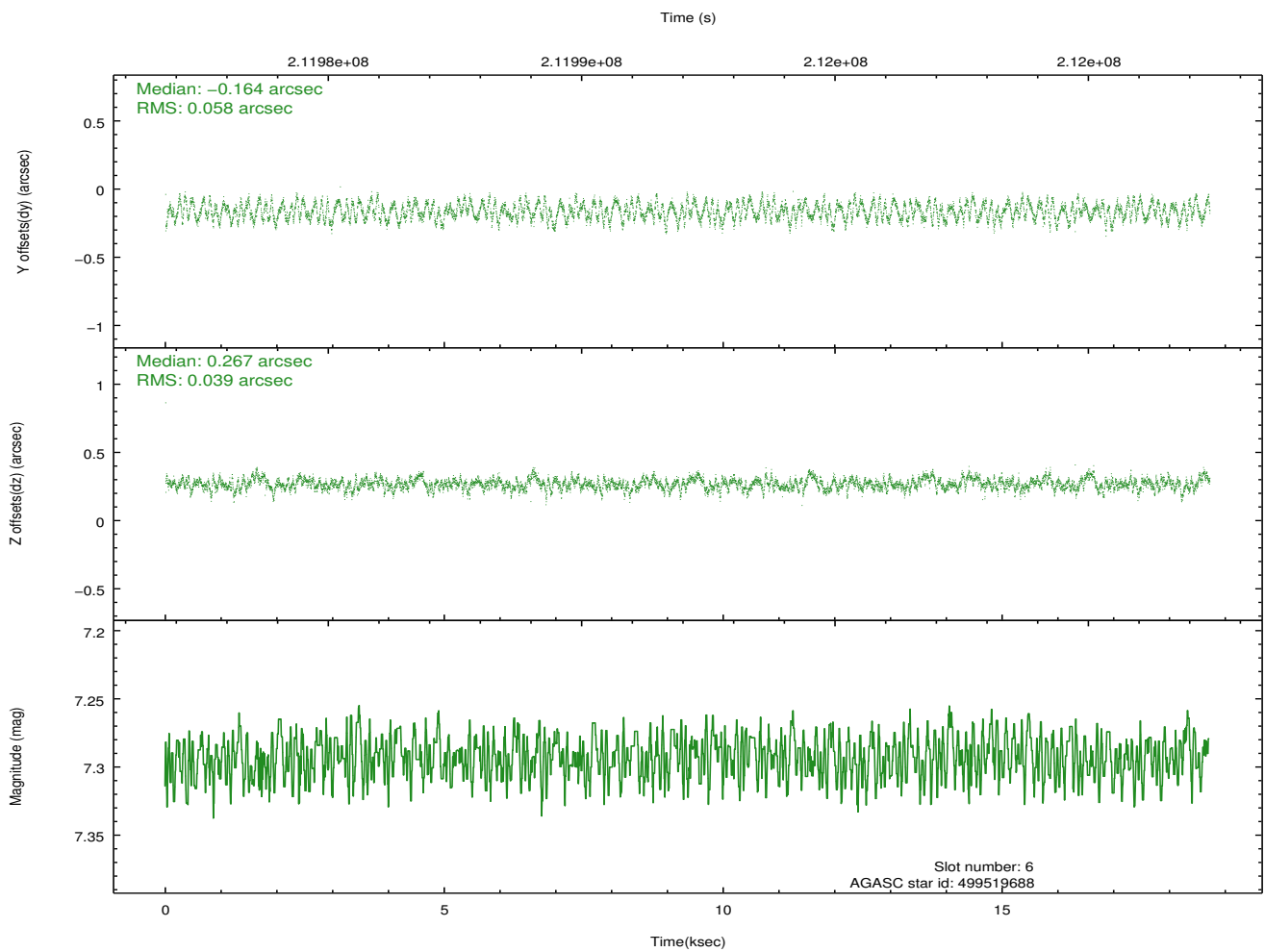
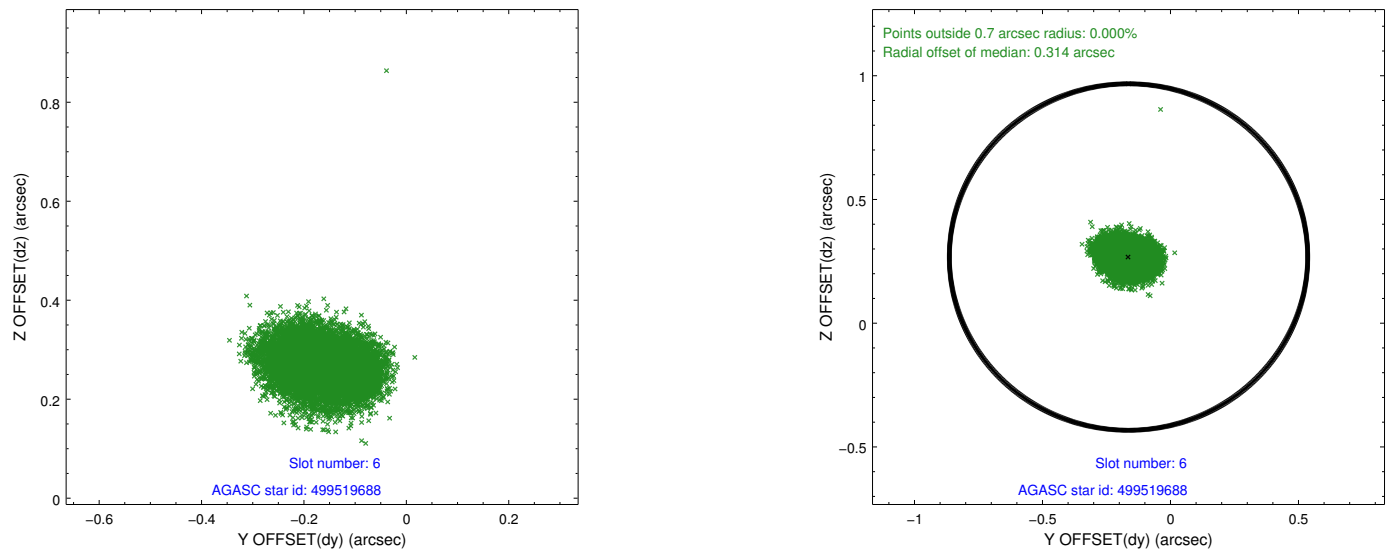
### 2.4.2 Slot 4



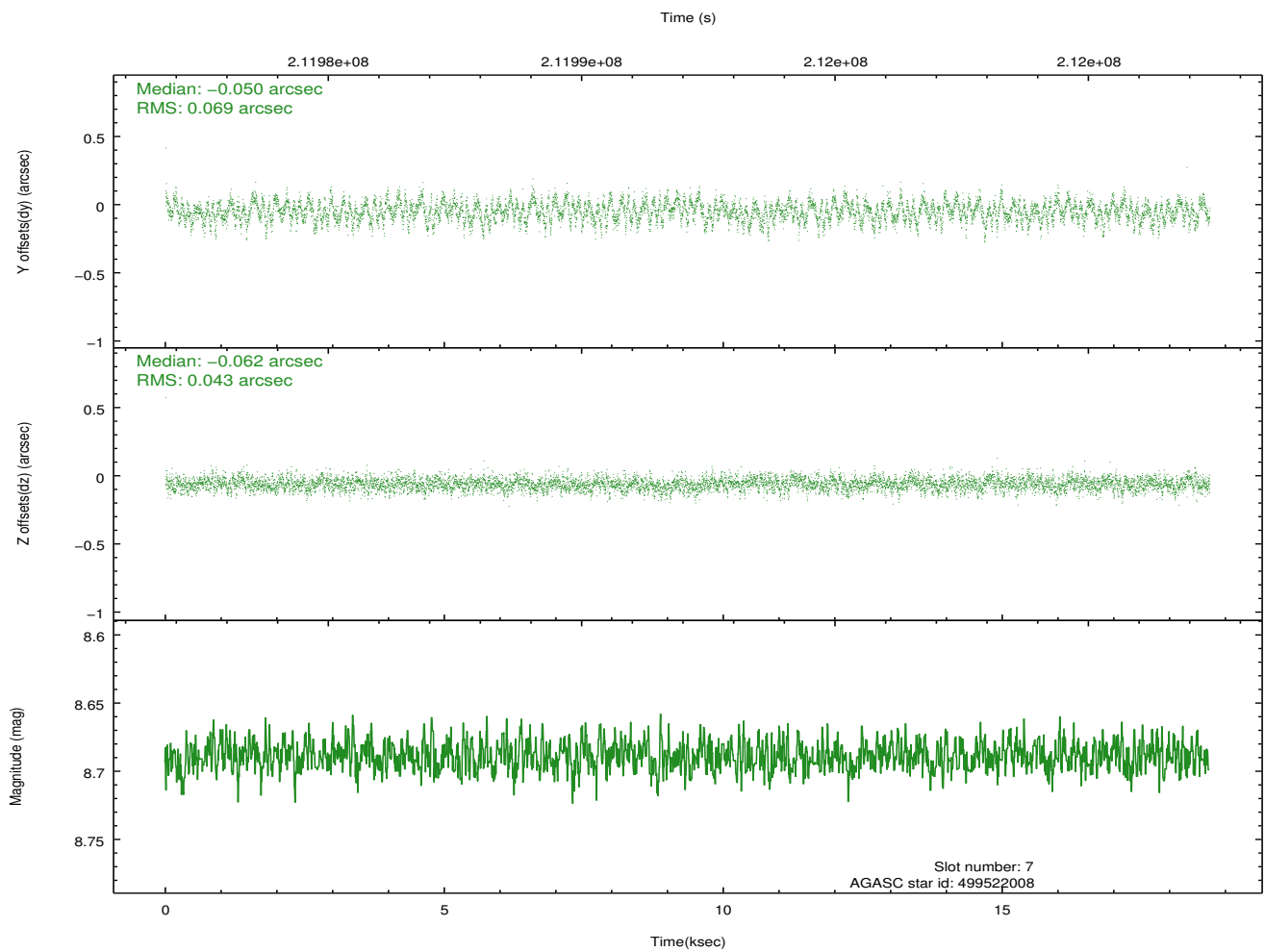
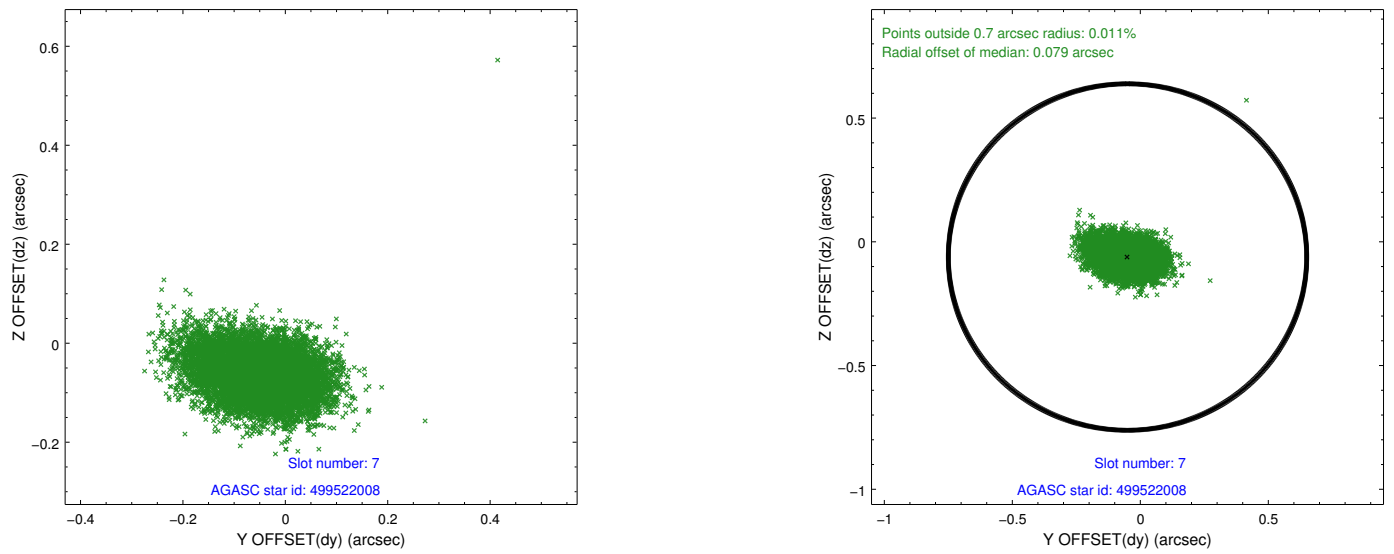
### 2.4.3 Slot 5



## 2.4.4 Slot 6

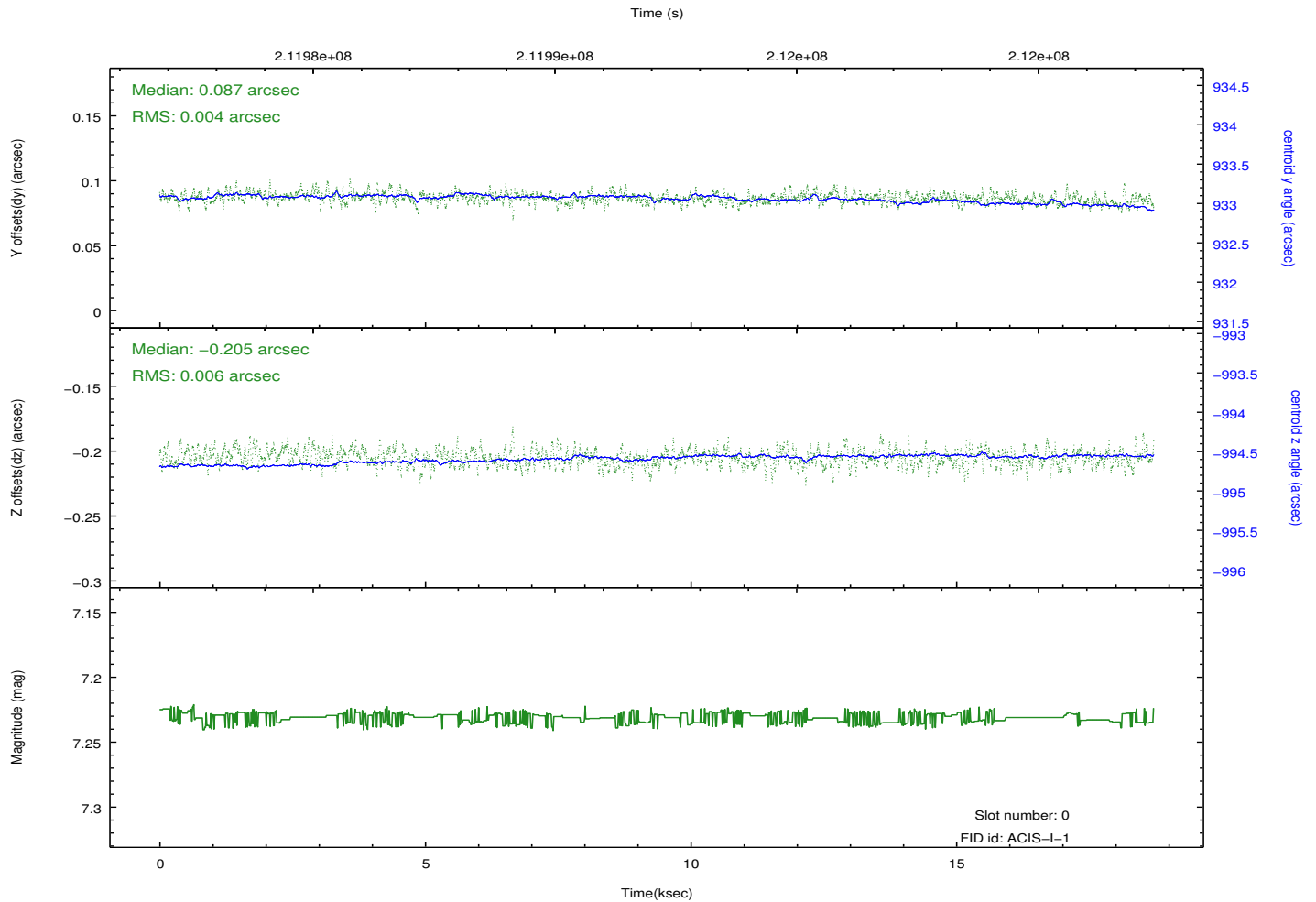
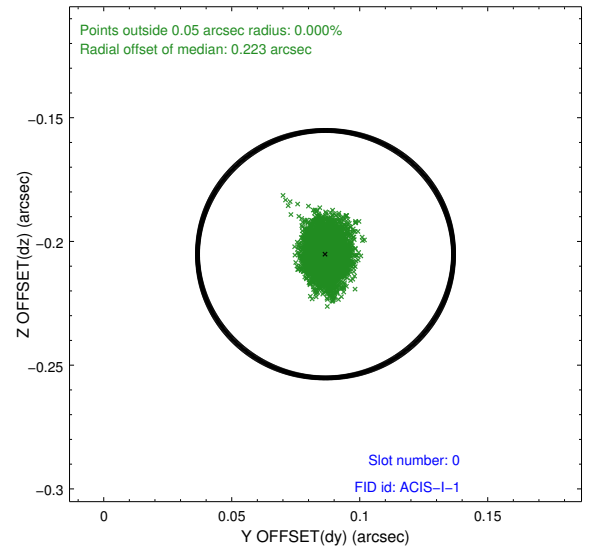
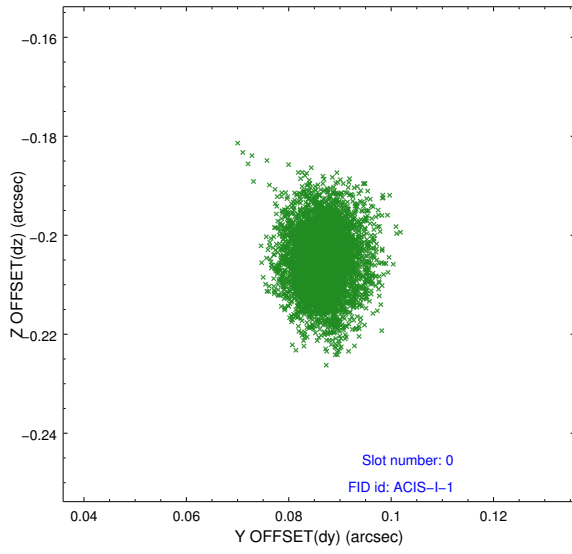


## 2.4.5 Slot 7

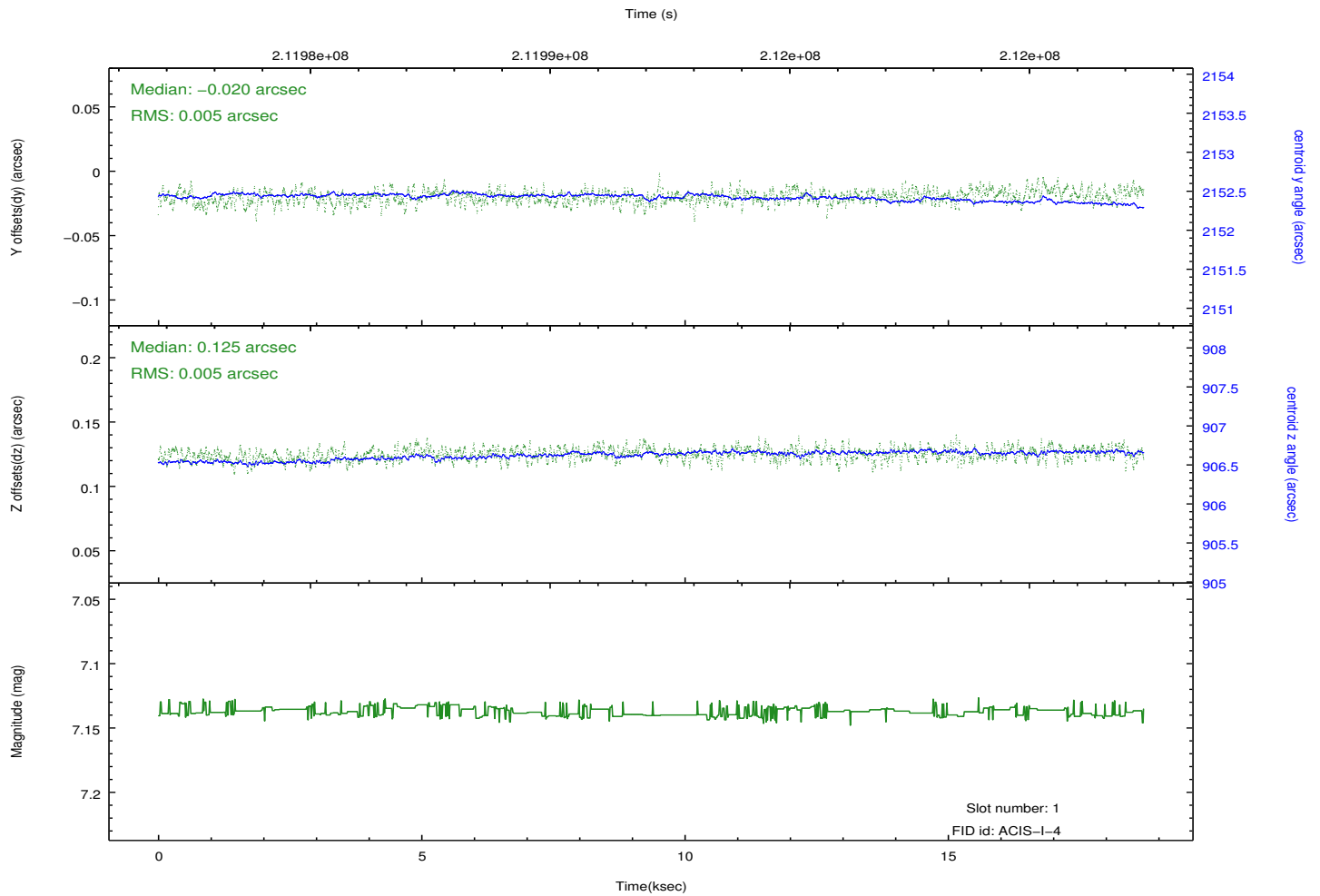
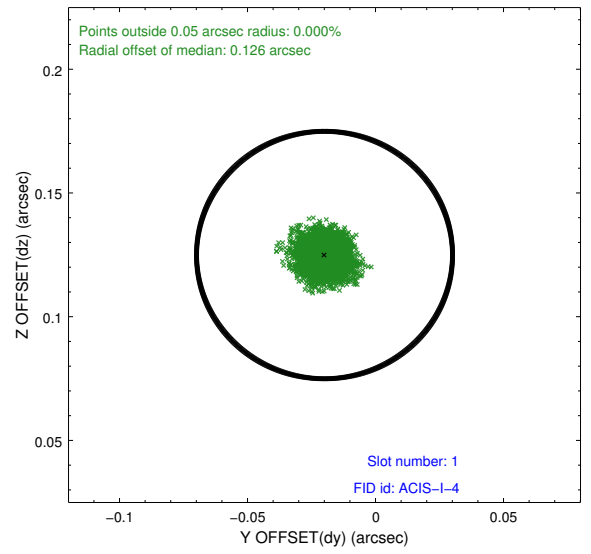
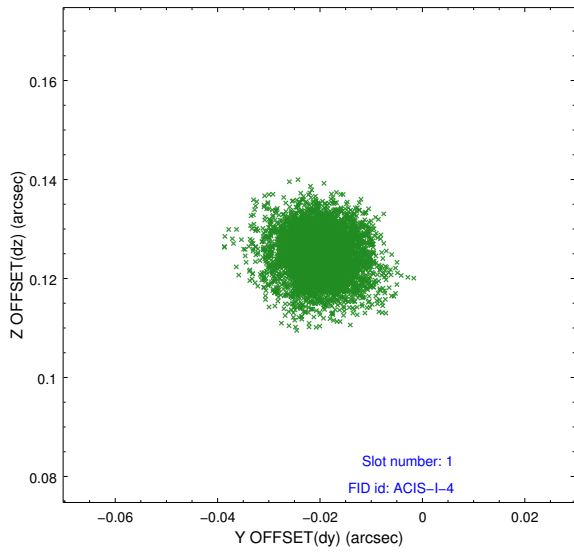


## 2.5 FID Slots

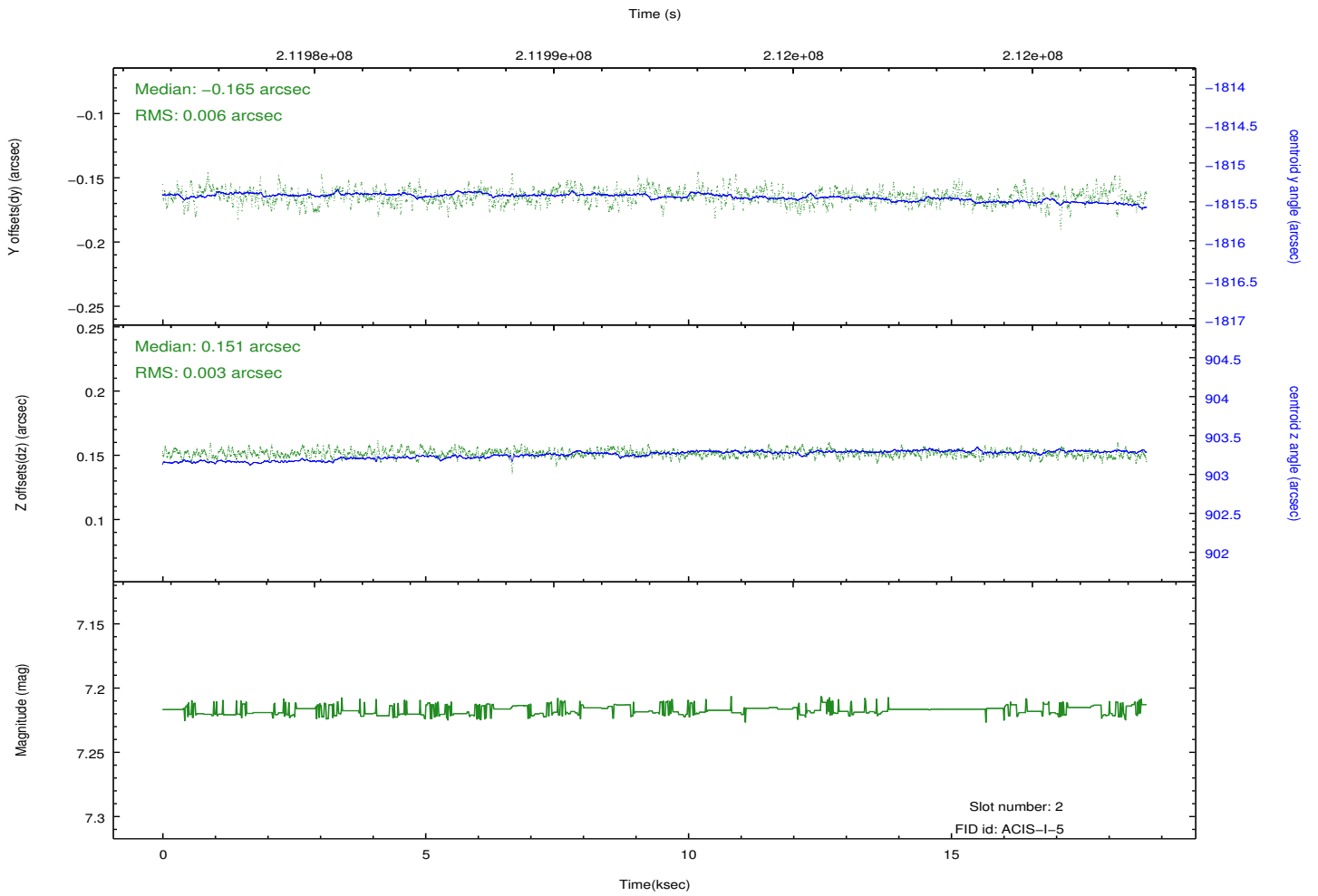
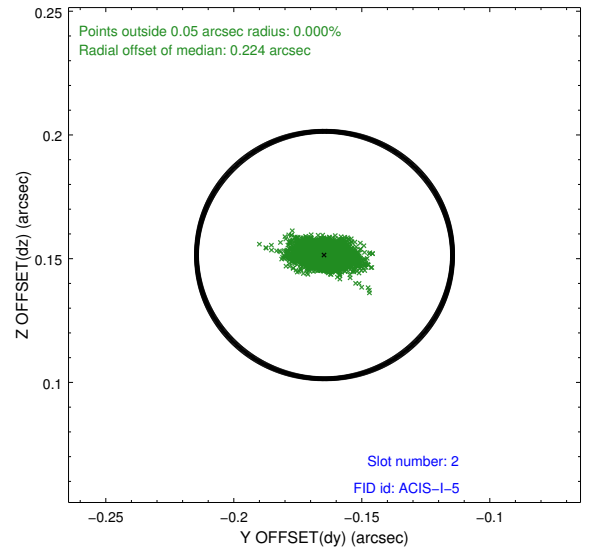
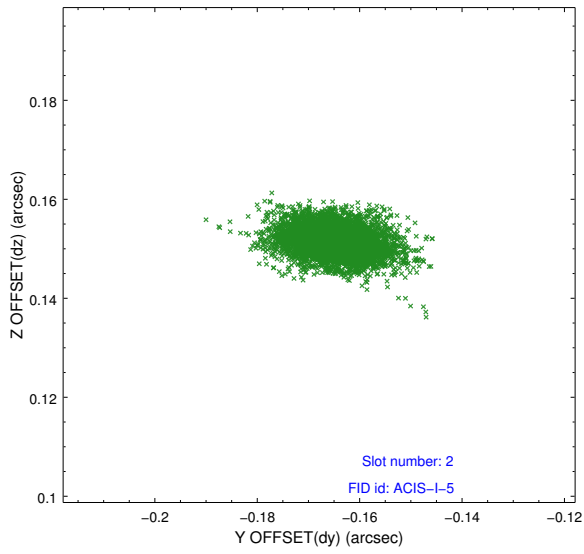
### 2.5.1 Slot 0



## 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)	2012.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.02

## A.2 Comments