

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16271 - L2 Version 1
Chandra X-Ray Center

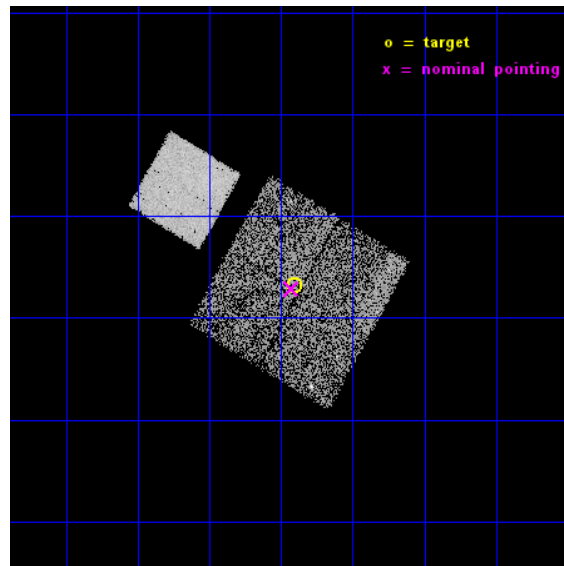
L2 Processing Date : Dec 23 2014

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

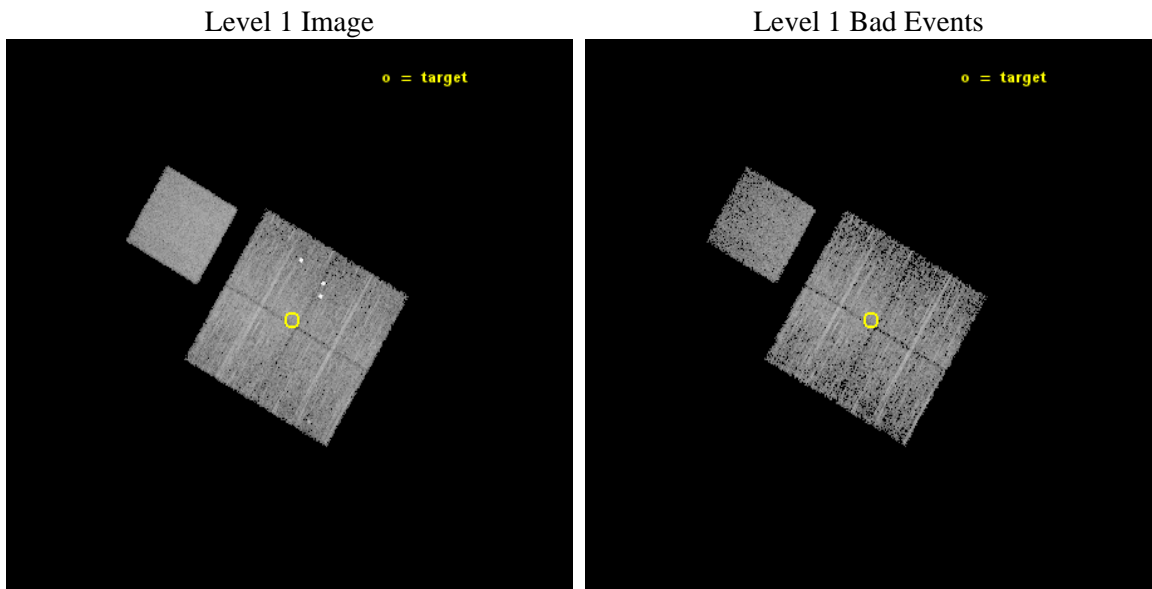
seq_num	703015	Sequence number
obs_id	16271	Observation id
title	X-ray Properties of Selected SDSS Stripe 82 Red Quasars	Proposal t
observer	Dr. Stephen Murray	Principal investigator
object	J211824.24+002311.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	319.600833	Observer's specified target RA [deg]
dec_targ	0.386611	Observer's specified target Dec [deg]
ra_nom	319.60689367586	Nominal RA [deg]
dec_nom	0.38102241303853	Nominal Dec [deg]
roll_nom	300.12926576098	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6800.2021717429	Sum of GTIs [s]
livetime	6711.3525241331	Livetime [s]
ontime0	6800.079051733	Sum of GTIs [s]
ontime1	6800.1200917363	Sum of GTIs [s]
ontime2	6800.1611317396	Sum of GTIs [s]
ontime3	6800.2021717429	Sum of GTIs [s]
ontime7	6800.2432117462	Sum of GTIs [s]
l2events	37285	Number of level 2 events



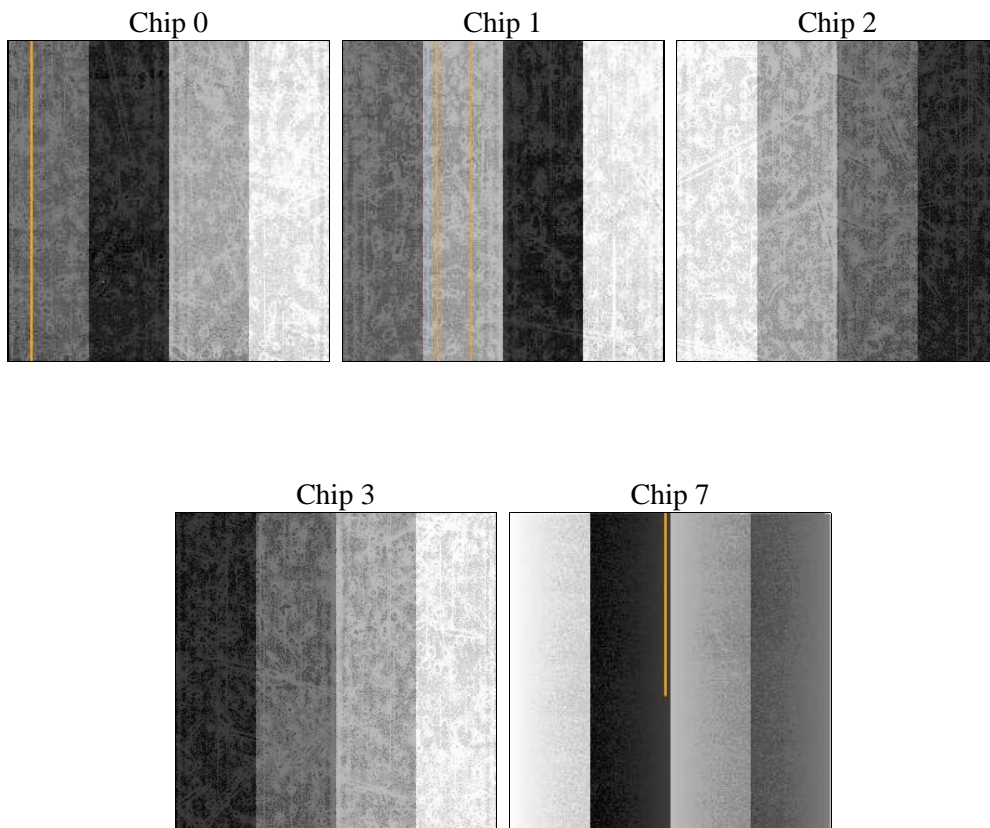
2 OBI

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	10.3.1	Processing system revision	ontime	6800.2021717429	Sum of GTIs [s]
caldsver	4.6.5	 	ontime0	6800.079051733	Sum of GTIs [s]
date	2014-12-23T11:34:55	Date and time of file creation	ontime1	6800.1200917363	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6800.1611317396	Sum of GTIs [s]
			ontime3	6800.2021717429	Sum of GTIs [s]
			ontime7	6800.2432117462	Sum of GTIs [s]
			l1events	194542	Number of level 1 events

2.1.4 Events

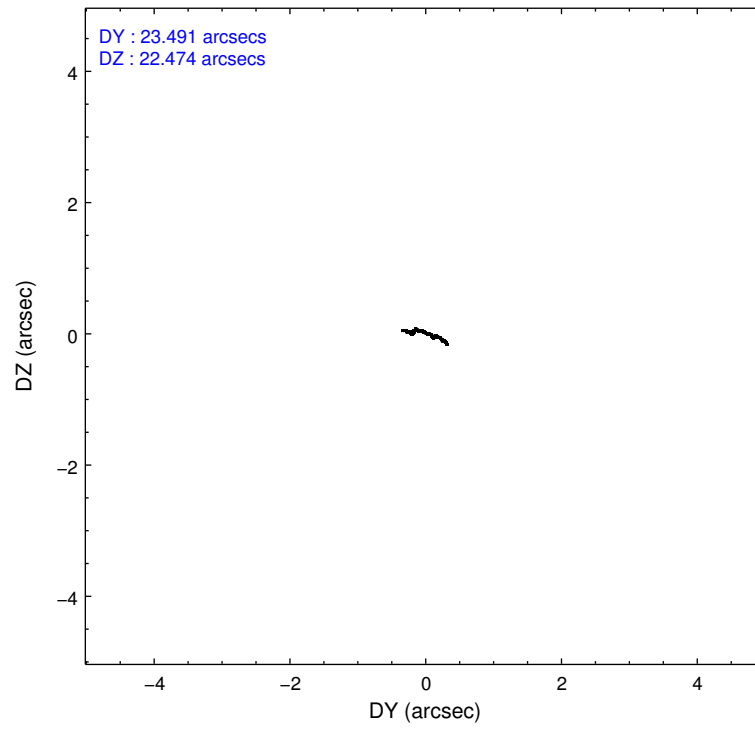
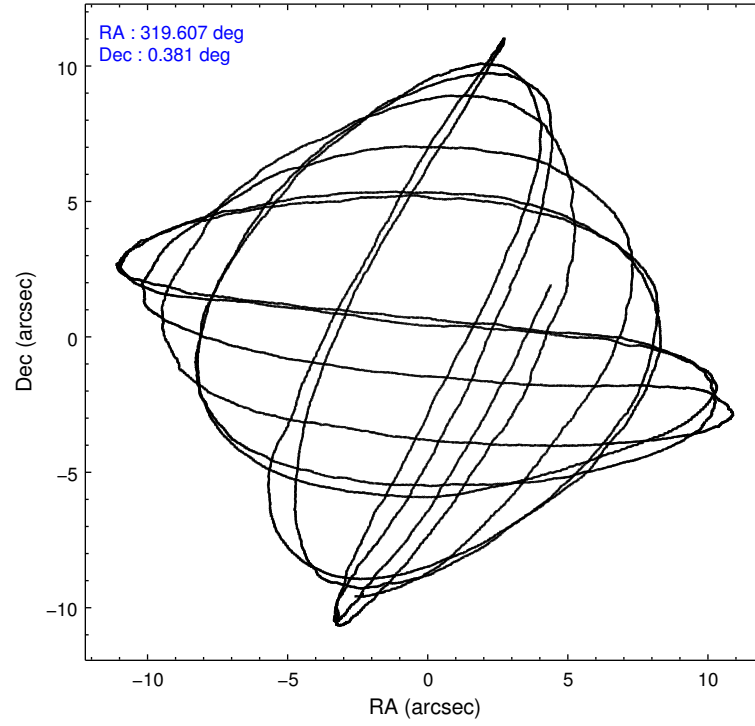
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	32754	36883	39598	36766	48541
rejected events	27331	27549	34005	30235	26405
rejected %	83%	74%	85%	82%	54%

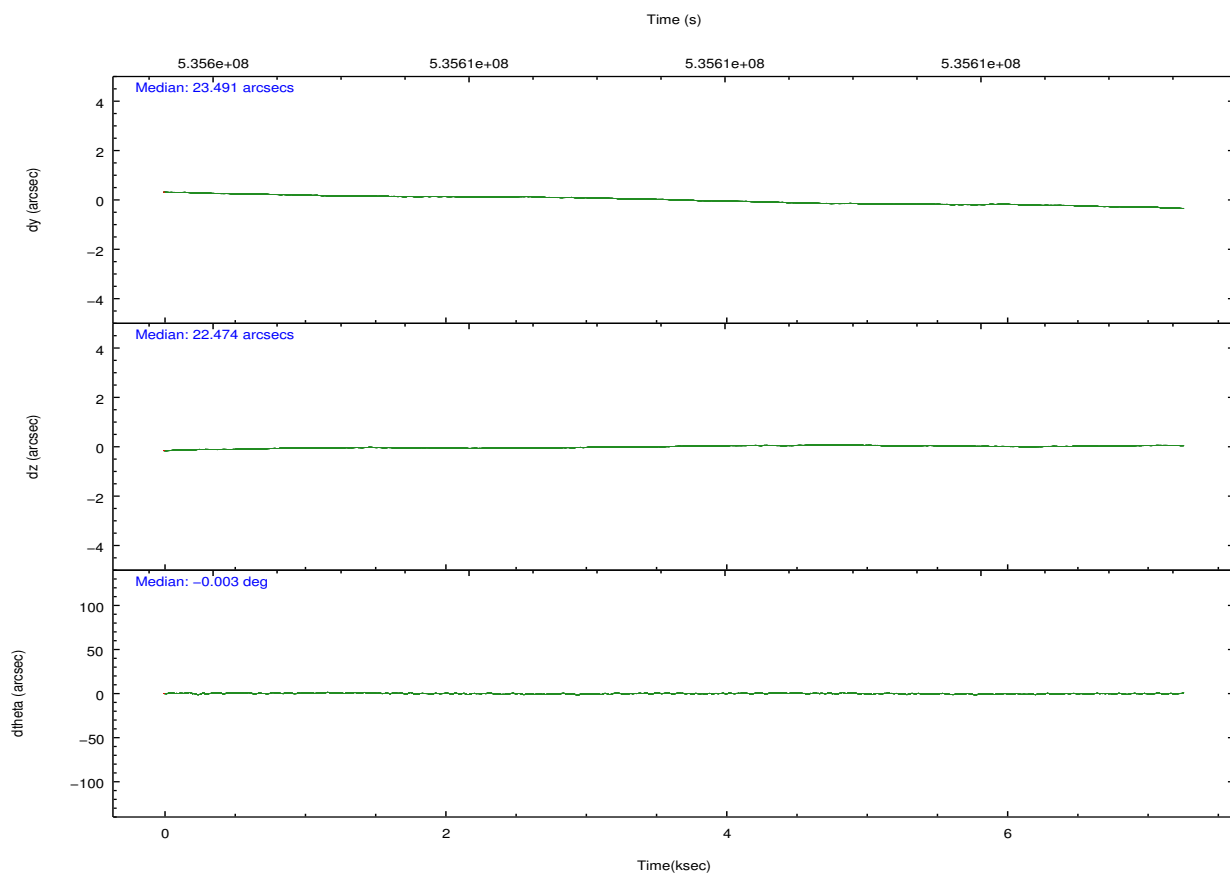
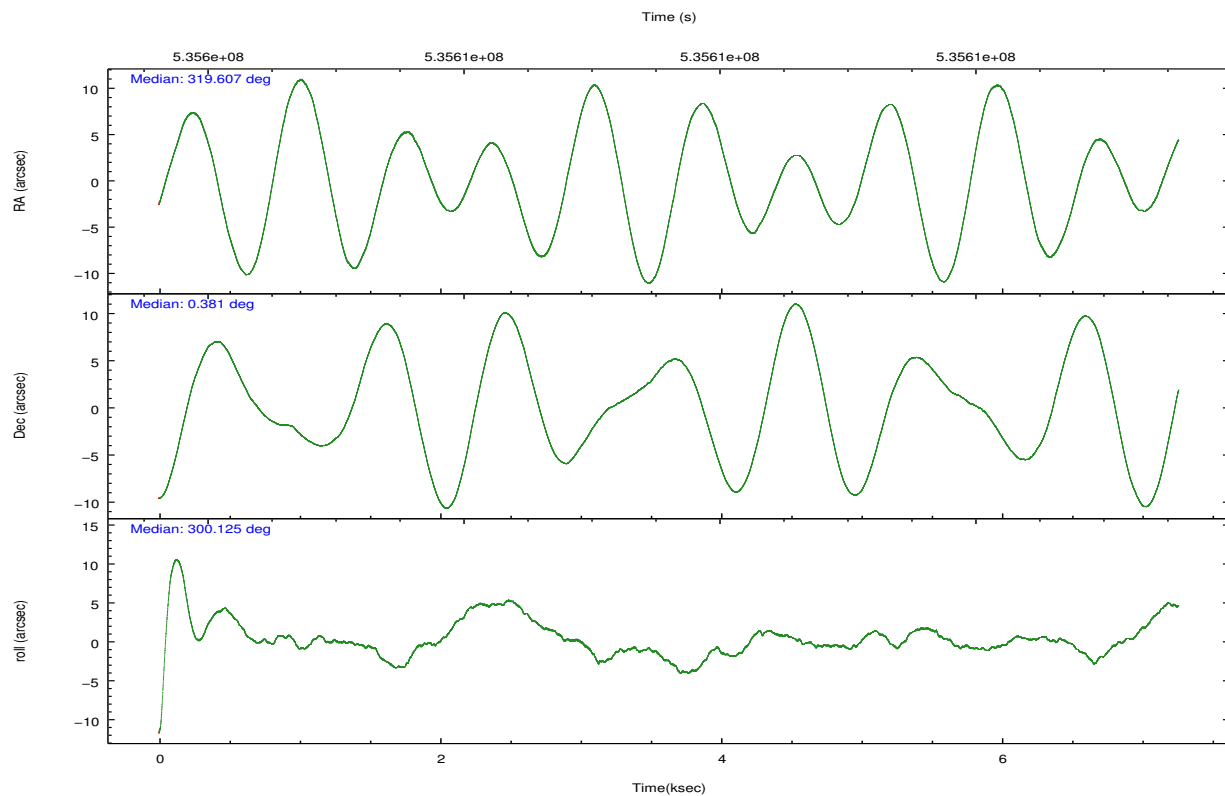
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	2492	6113	2456	4002	2283
	7%	16%	6%	10%	4%
grade 1 events	26	34	27	32	77
	0%	0%	0%	0%	0%
grade 2 events	1366	1399	1344	937	5110
	4%	3%	3%	2%	10%
grade 3 events	393	436	415	413	1906
	1%	1%	1%	1%	3%
grade 4 events	410	412	624	425	1872
	1%	1%	1%	1%	3%
grade 5 events	1494	1599	1395	1702	4708
	4%	4%	3%	4%	9%
grade 6 events	806	1066	794	807	11132
	2%	2%	2%	2%	22%
grade 7 events	25767	25824	32543	28448	21453
	78%	70%	82%	77%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	319.582882	319.6068936758612	CCD I2 on	Y	Y
[deg] Pointing Dec	0.394745	0.381022413038527	CCD I3 on	Y	Y
[deg] Pointing Roll	299.920794	300.1292657609801	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	535604145.184000	535603629.72935	CCD S5 on	N	N
Observation start date	2014-12-22T02:54:38	2014-12-22T02:47:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535612145.184000	535611223.44228	On-chip summing requested	N	N
Observation end date	2014-12-22T05:07:58	2014-12-22T04:53:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



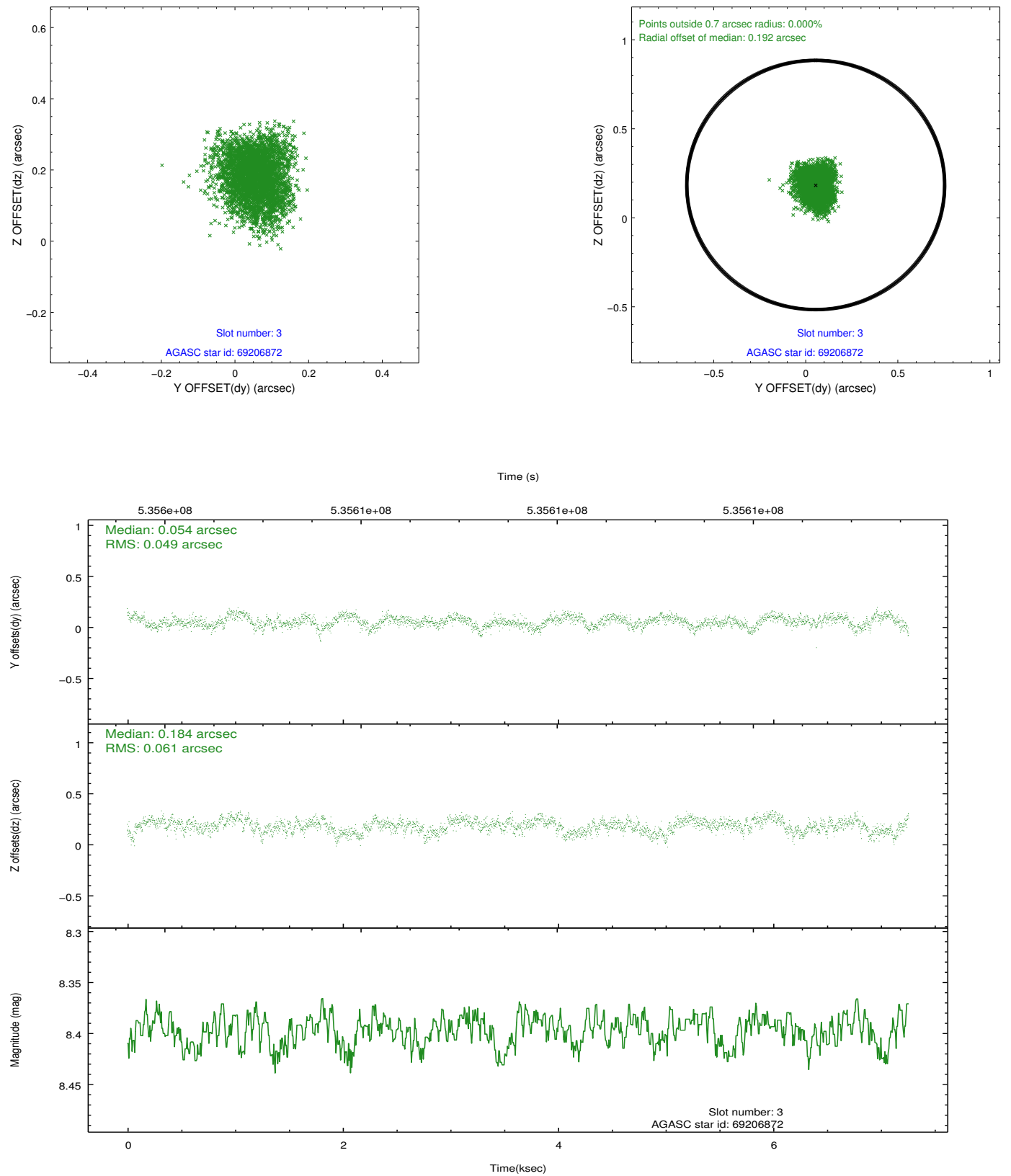


Slot Statistics

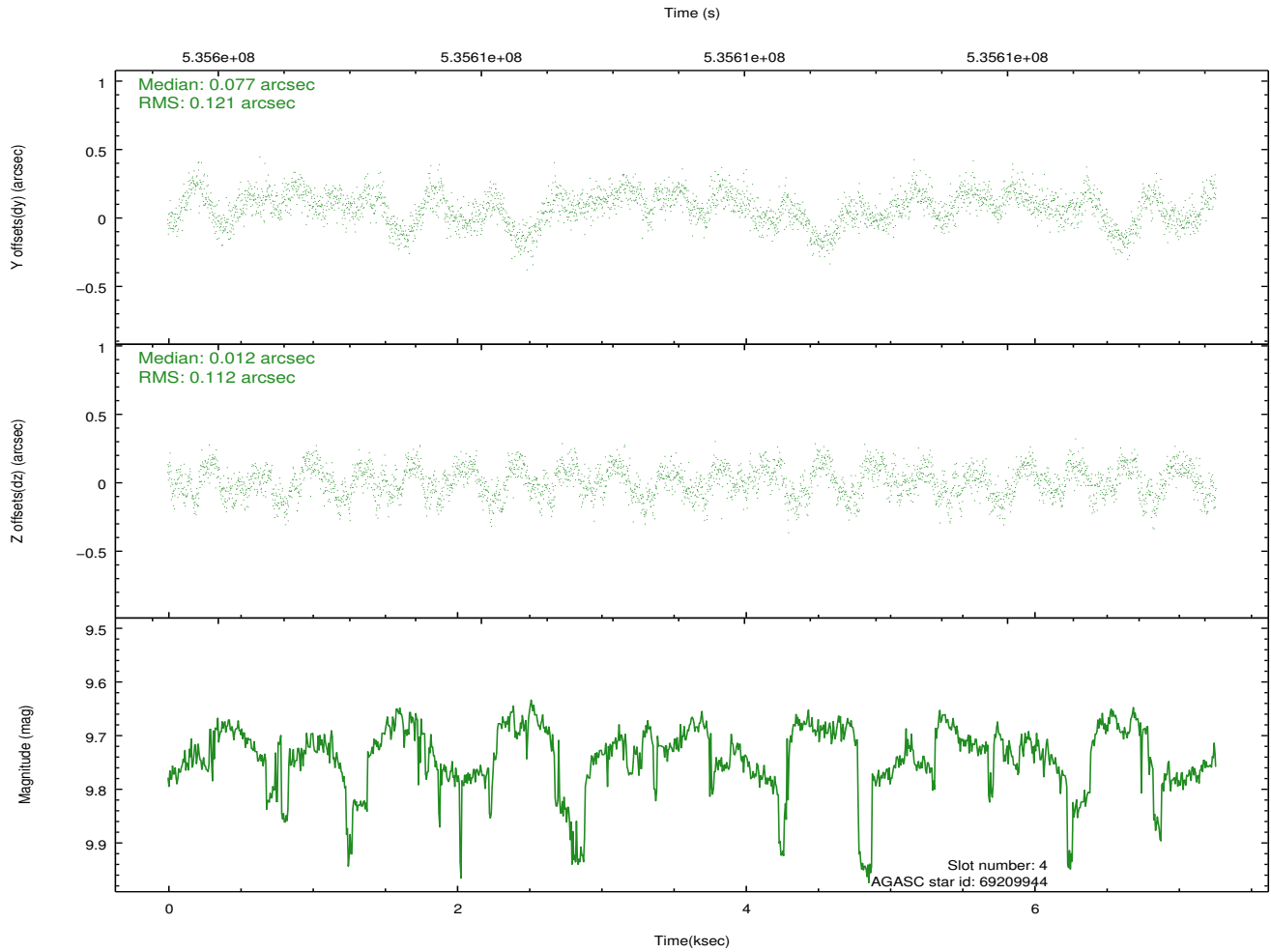
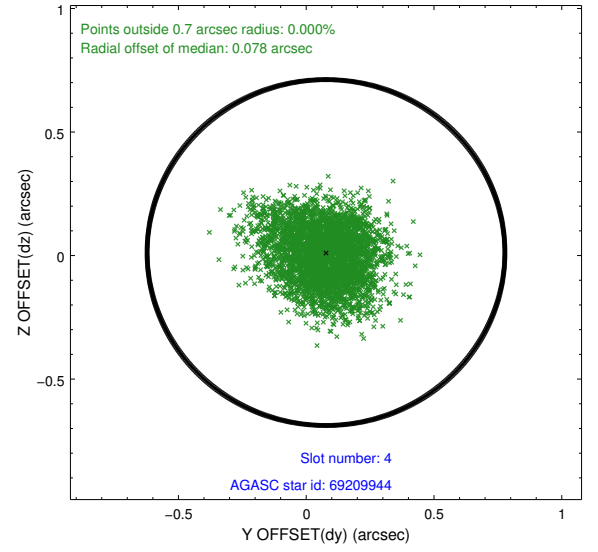
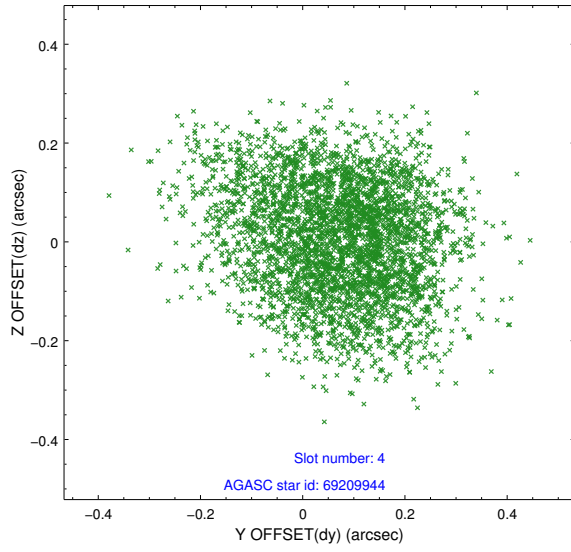
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.14	1772	0.069	0.003	0.009	0.015	0.000000	0.000000	915.83	-846.24
1	FID		ACIS-I-5	7.13	1771	-0.278	0.062	0.008	0.013	0.000000	0.000000	-1832.23	1050.85
2	FID		ACIS-I-6	7.14	1772	0.117	0.005	0.007	0.012	0.000000	0.000000	380.50	1696.24
3	GUIDE	used	69206872	8.40	3542	0.054	0.184	0.084	0.134	319.009513	0.201113	-424.87	-2135.88
4	GUIDE	used	69209944	9.73	3539	0.077	0.012	0.178	0.281	319.428797	0.904792	-1867.41	435.13
5	GUIDE	used	69212880	8.30	3541	-0.091	-0.074	0.103	0.171	320.016126	0.840272	-612.18	2151.71
6	GUIDE	used	69213096	8.58	3542	-0.056	0.007	0.081	0.131	319.758930	0.016856	1495.31	-128.30
7	GUIDE	used	69213832	9.00	3541	0.016	-0.130	0.133	0.199	320.030455	0.095457	1738.66	860.90

2.4 Star Slots

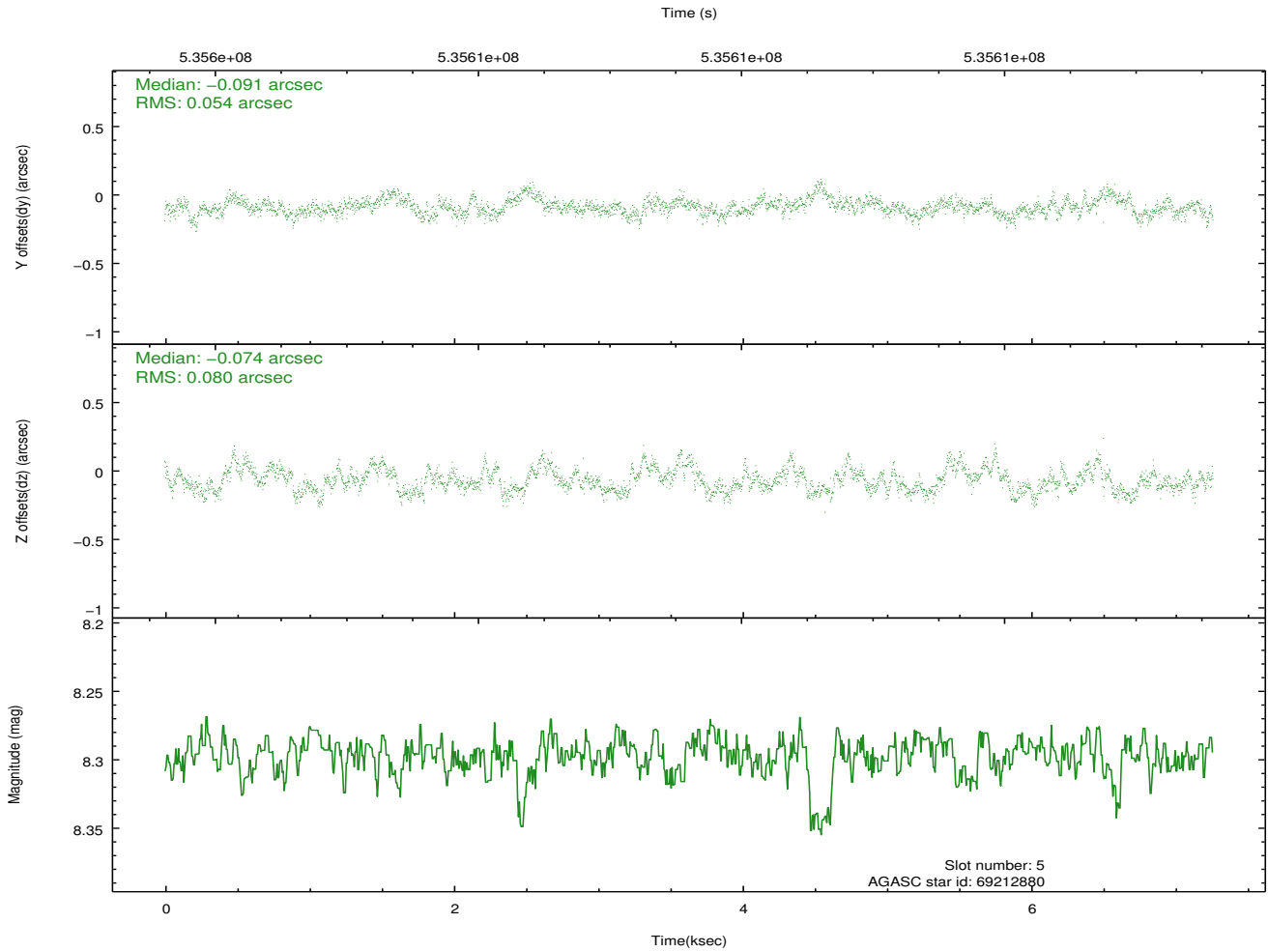
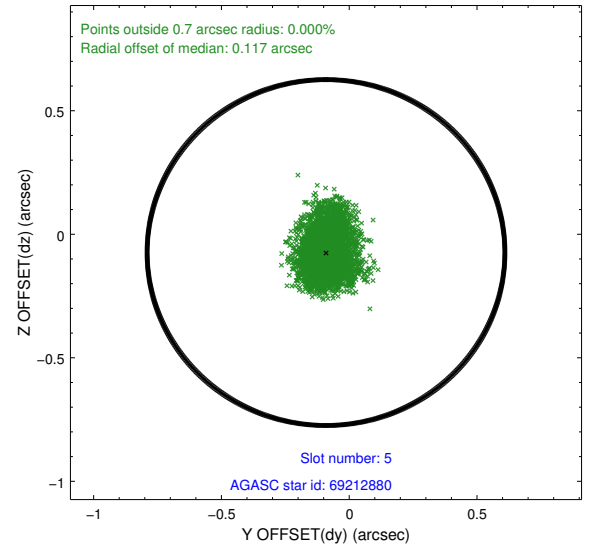
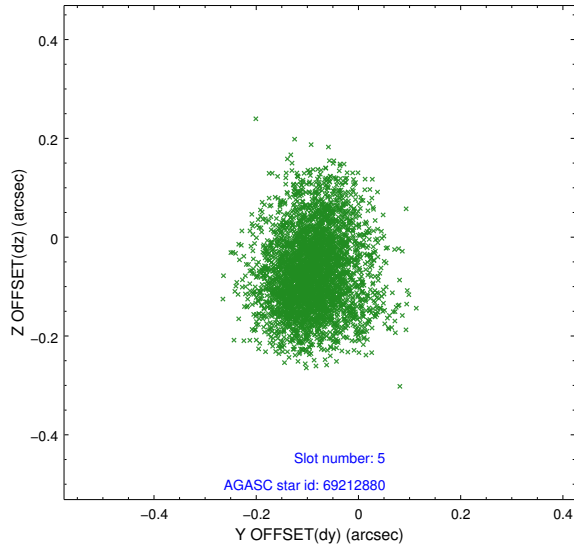
2.4.1 Slot 3



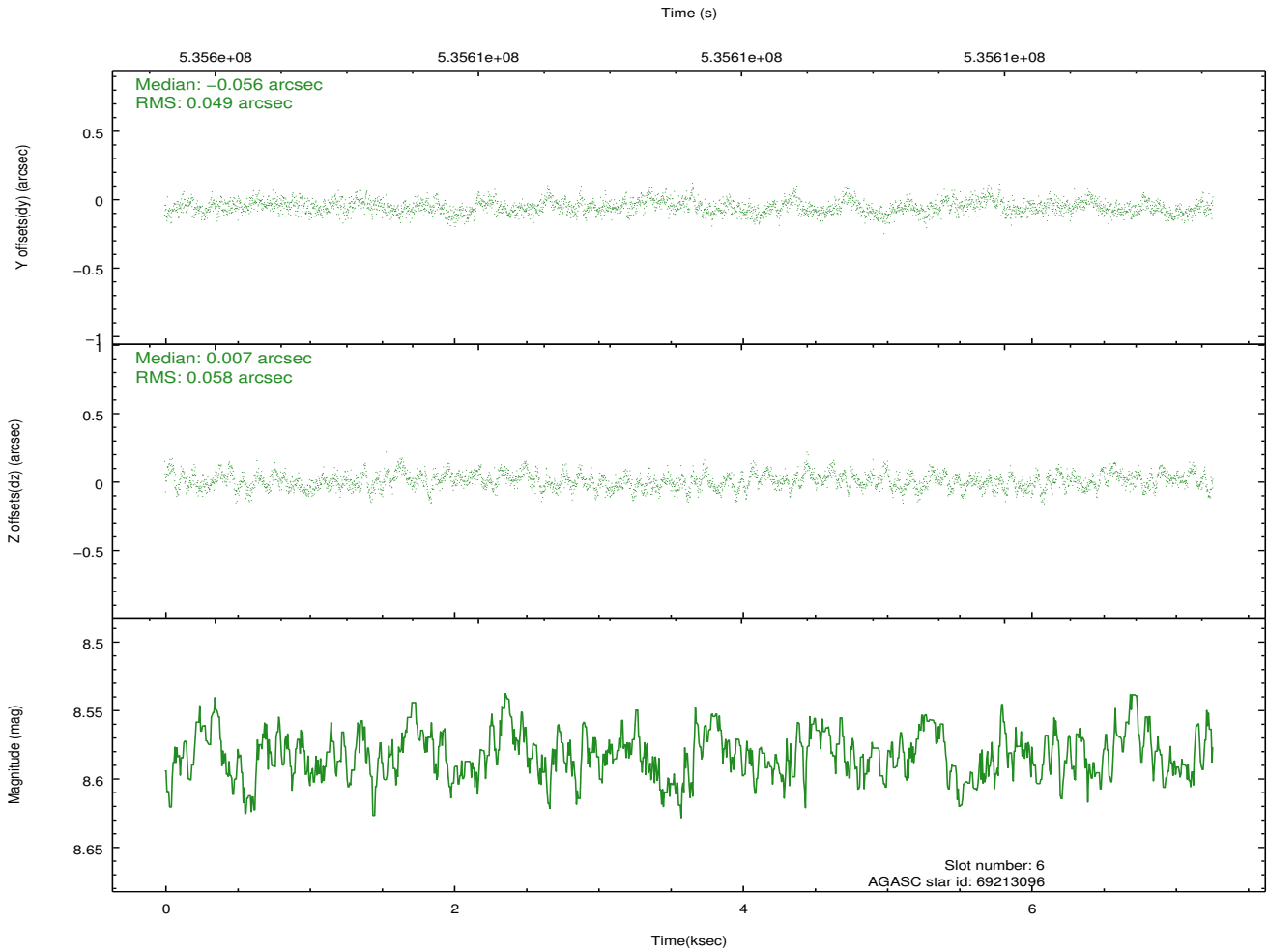
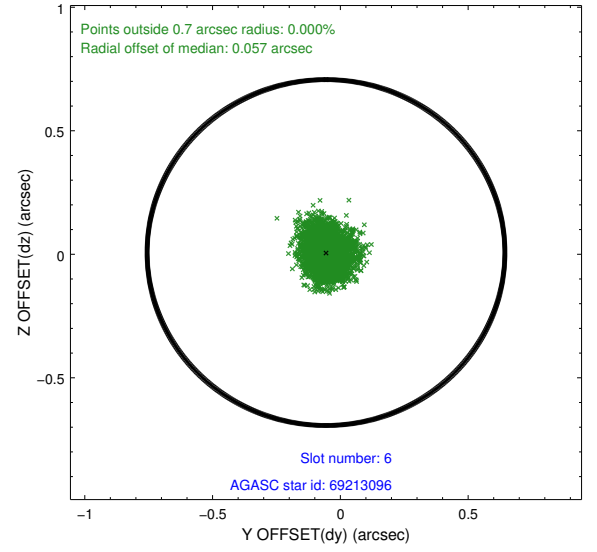
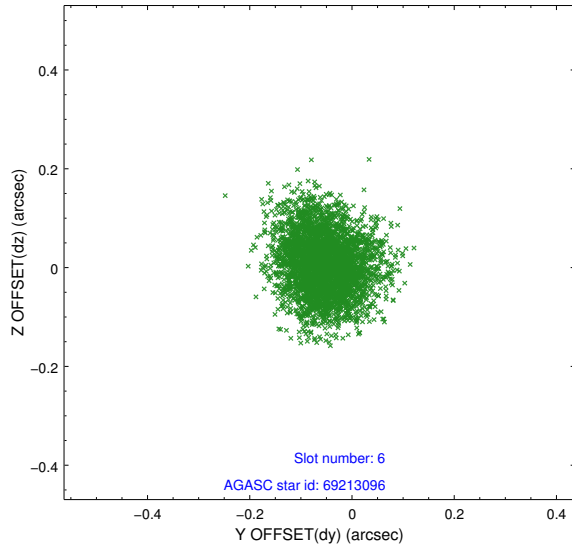
2.4.2 Slot 4



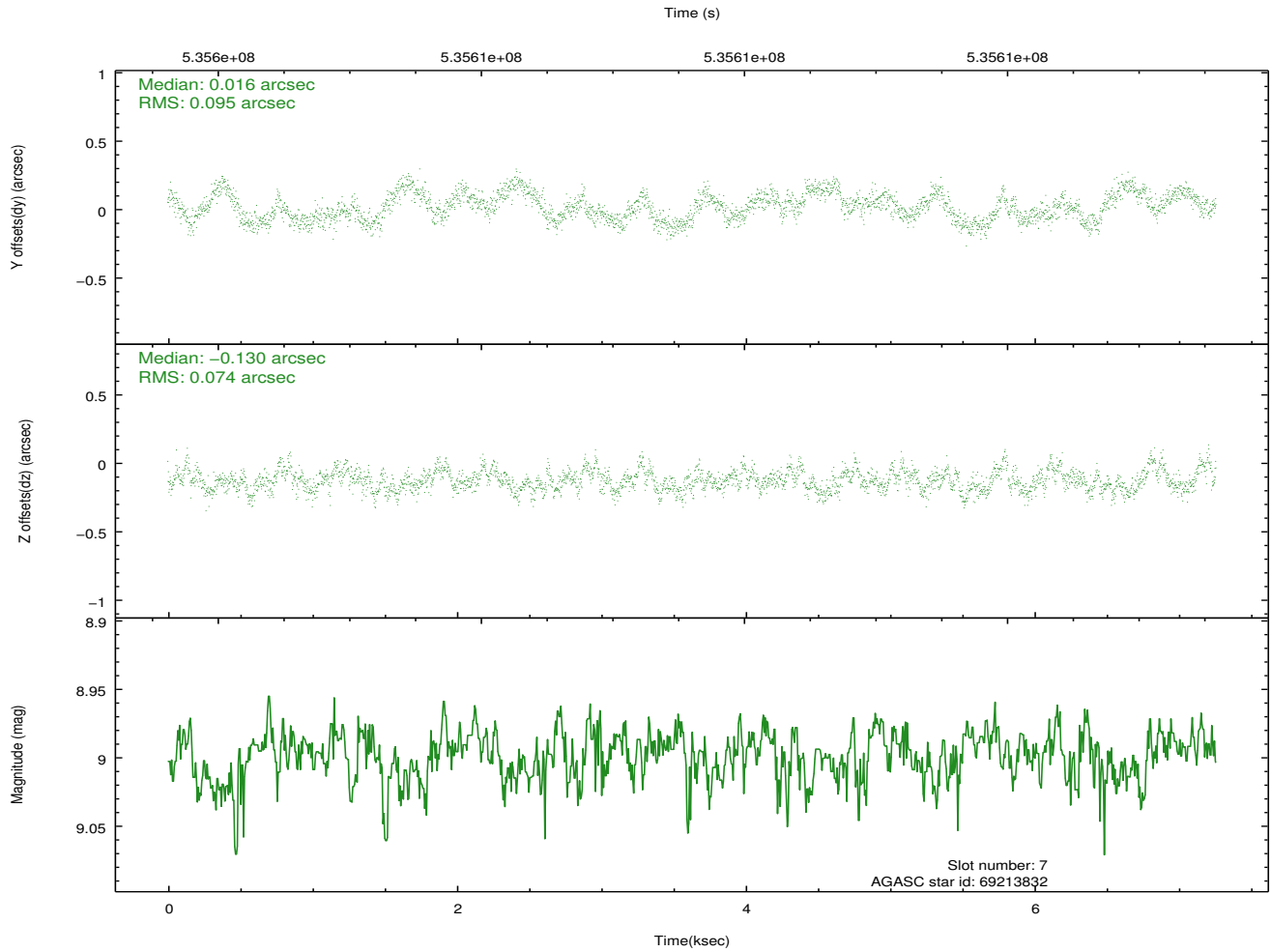
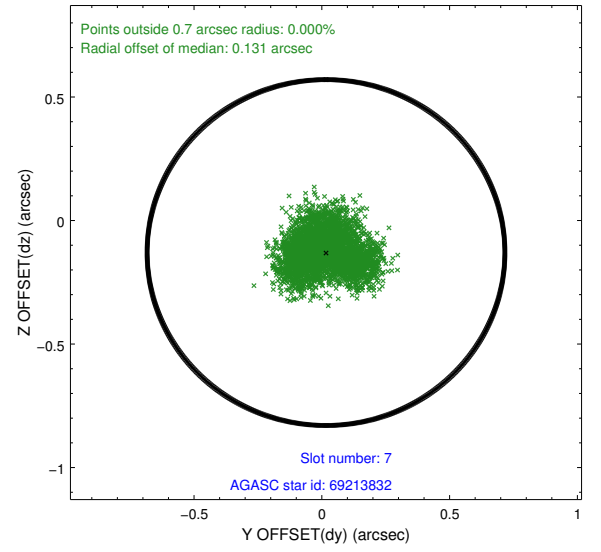
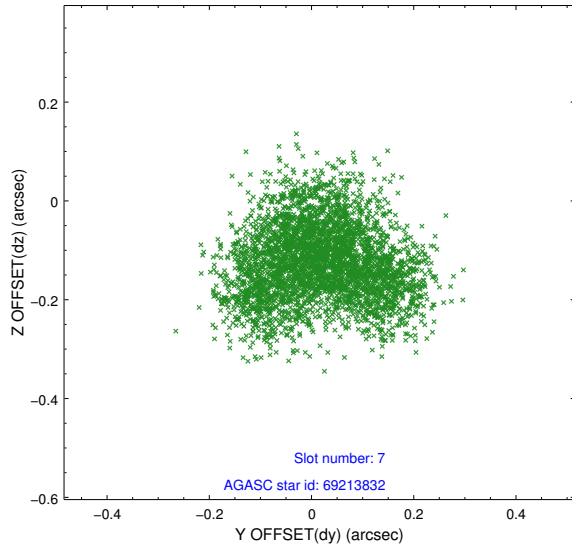
2.4.3 Slot 5



2.4.4 Slot 6

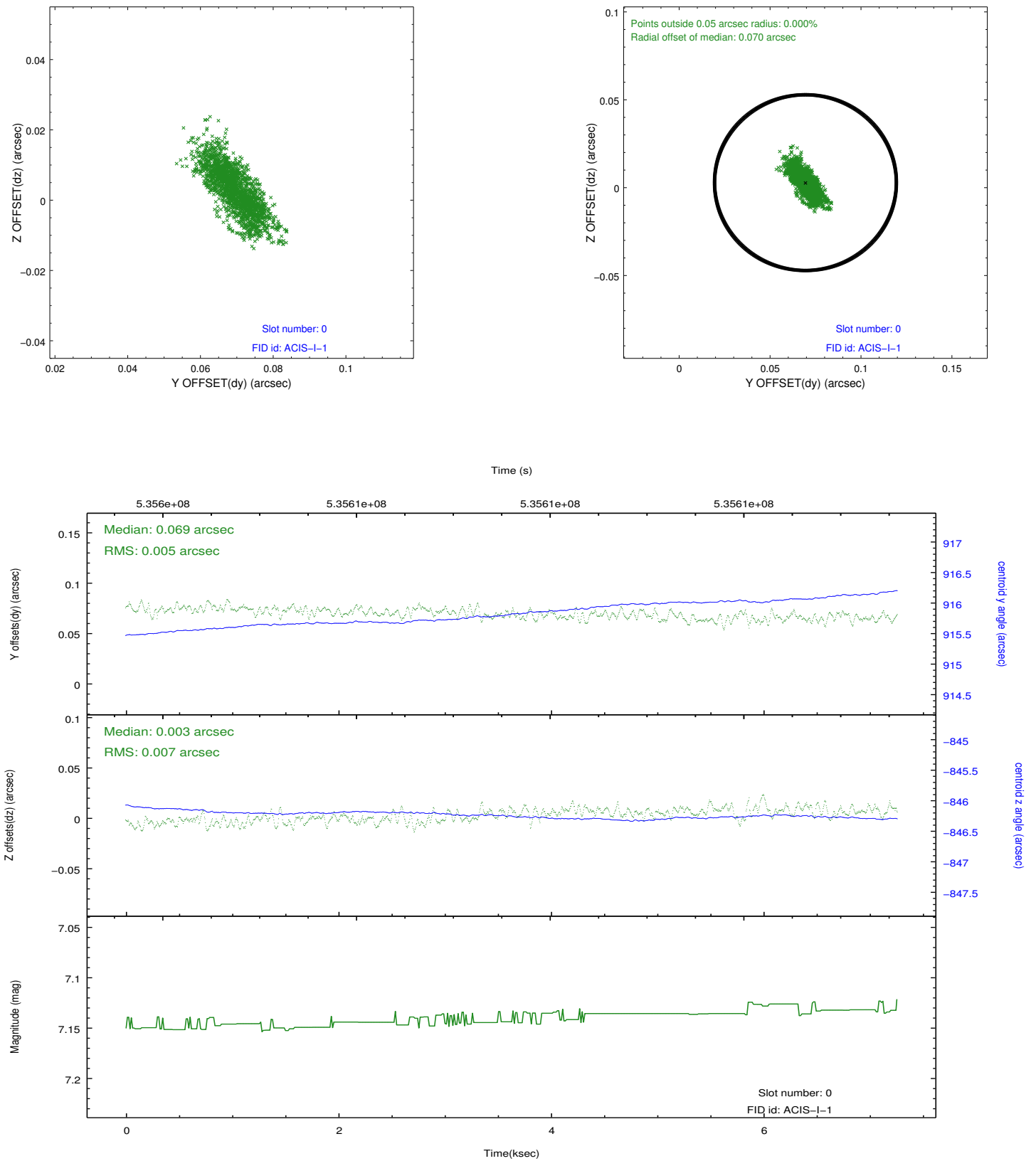


2.4.5 Slot 7

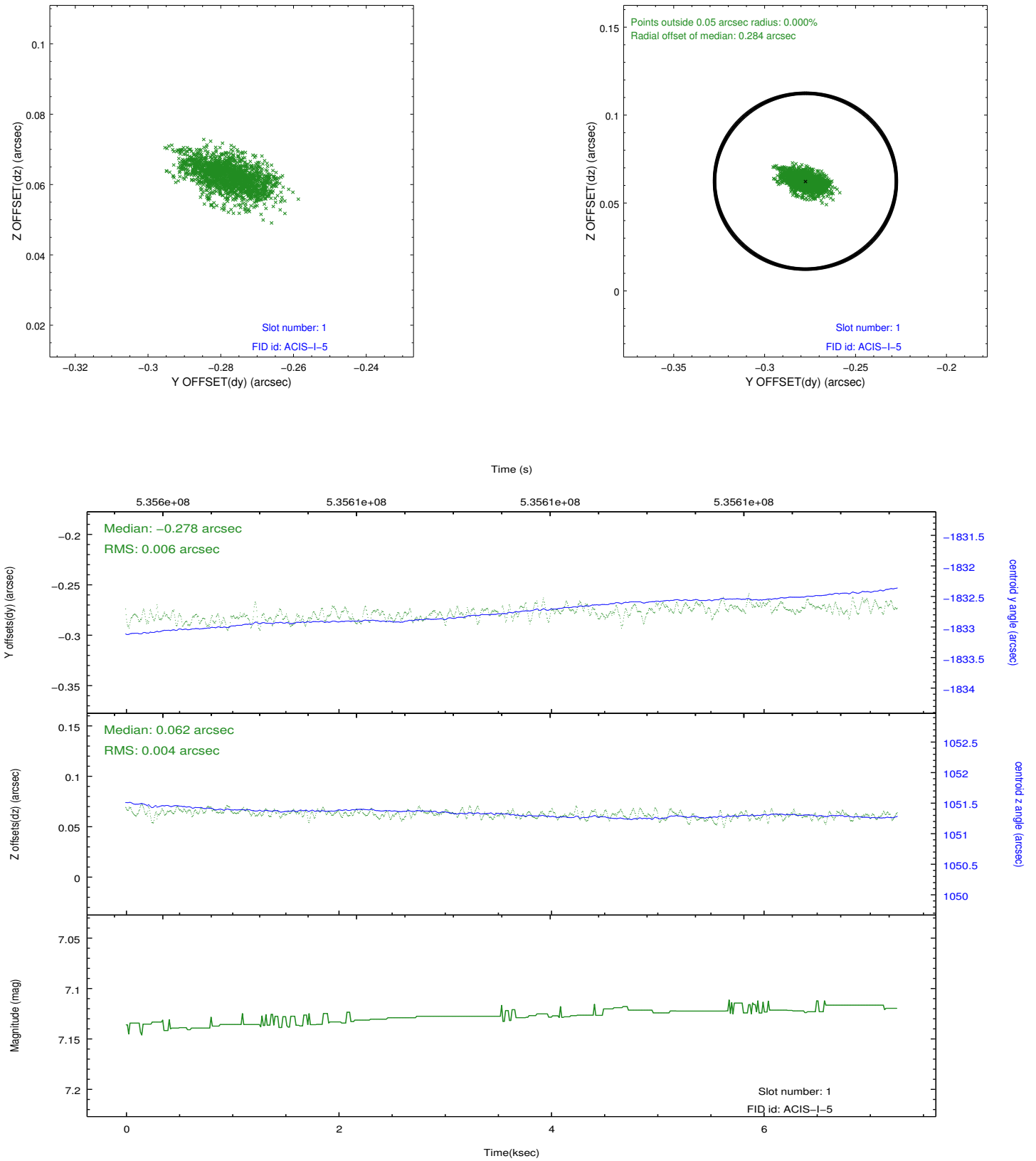


2.5 FID Slots

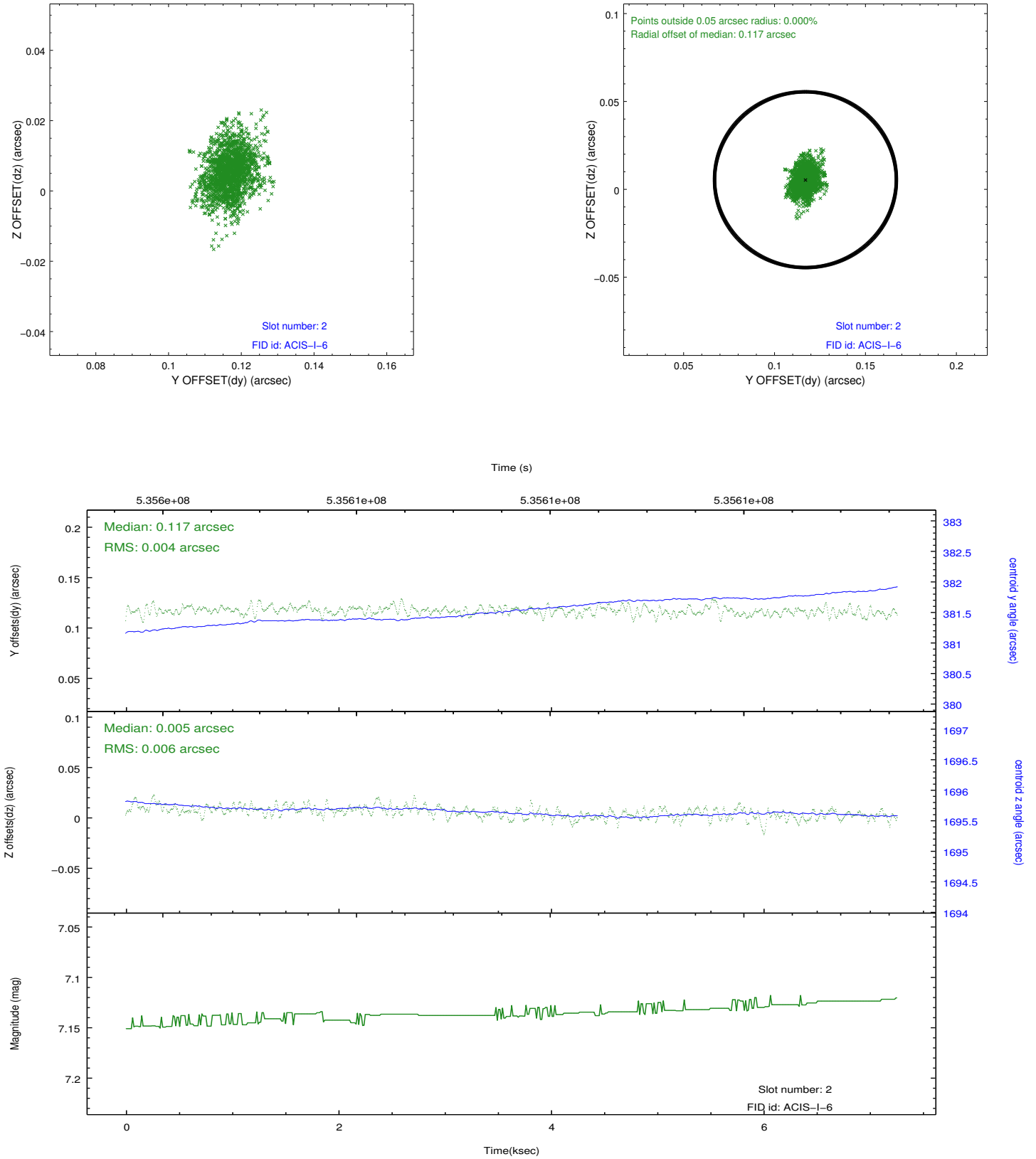
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2014.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8002021717429

A.2 Comments

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 356:04:52:35z. Due to a high radiation environment, the instruments were safed and the observation terminated early. Of the planned 8 ks exposure, 6.8 were obtained.