

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14350 - L2 Version 2
Chandra X-Ray Center

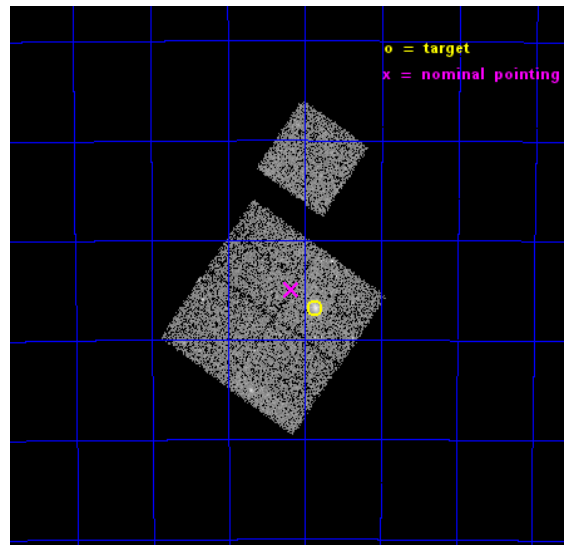
L2 Processing Date : Nov 29 2014

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

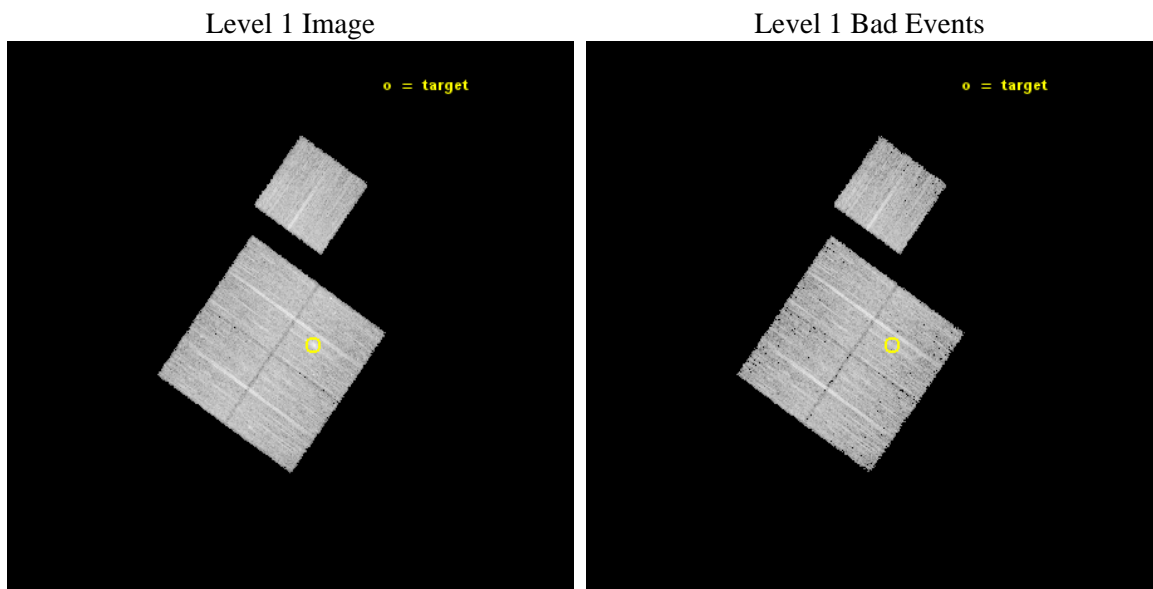
seq_num	801197	Sequence number
obs_id	14350	Observation id
title	A DETAILED CHANDRA/HST STUDY OF THE FIRST z approx 1 CLUSTER BLINDLY DISCOVERED IN THE PLANCK ALL SKY SURVEY	Proposal title
observer	Dr. Pasquale Mazzotta	Principal investigator
object	PLCKG266.6-27.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	93.966667	Observer's specified target RA [deg]
dec_targ	-57.781	Observer's specified target Dec [deg]
ra_nom	94.043769232187	Nominal RA [deg]
dec_nom	-57.749314708572	Nominal Dec [deg]
roll_nom	35.173884105666	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12083.623633444	Sum of GTIs [s]
livetime	11925.742194839	Livetime [s]
ontime0	12077.218442976	Sum of GTIs [s]
ontime1	12083.541553438	Sum of GTIs [s]
ontime2	12083.582593441	Sum of GTIs [s]
ontime3	12083.623633444	Sum of GTIs [s]
ontime6	12083.459473431	Sum of GTIs [s]
l2events	34000	Number of level 2 events



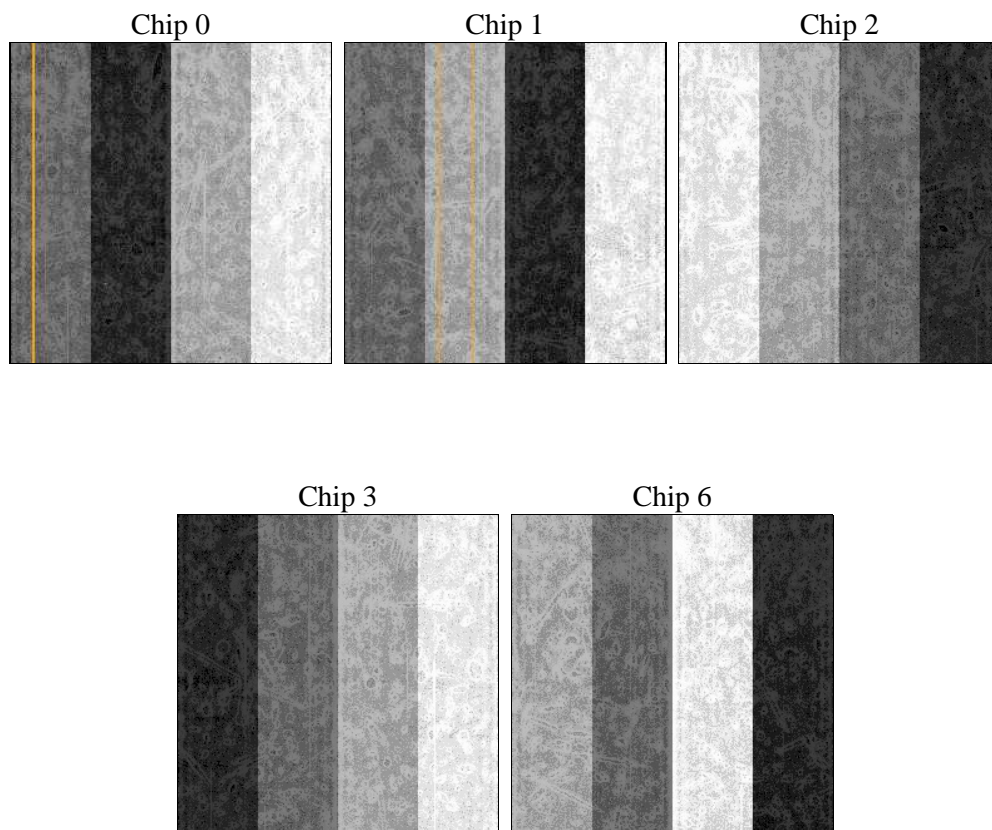
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	12083.623633444	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	12077.218442976	Sum of GTIs [s]
date	2014-11-29T15:10:45	Date and time of file creation	ontime1	12083.541553438	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	12083.582593441	Sum of GTIs [s]
			ontime3	12083.623633444	Sum of GTIs [s]
			ontime6	12083.459473431	Sum of GTIs [s]
			l1events	305931	Number of level 1 events

2.1.4 Events

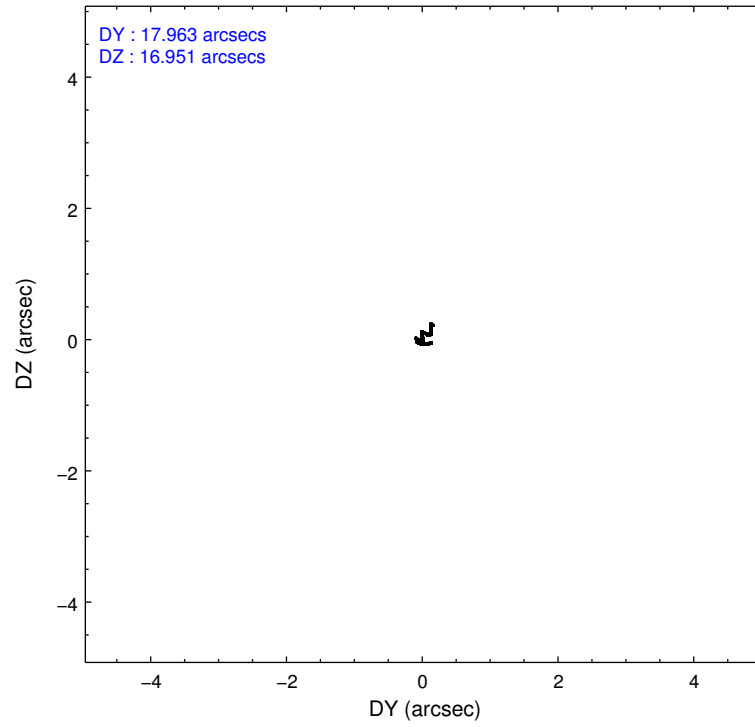
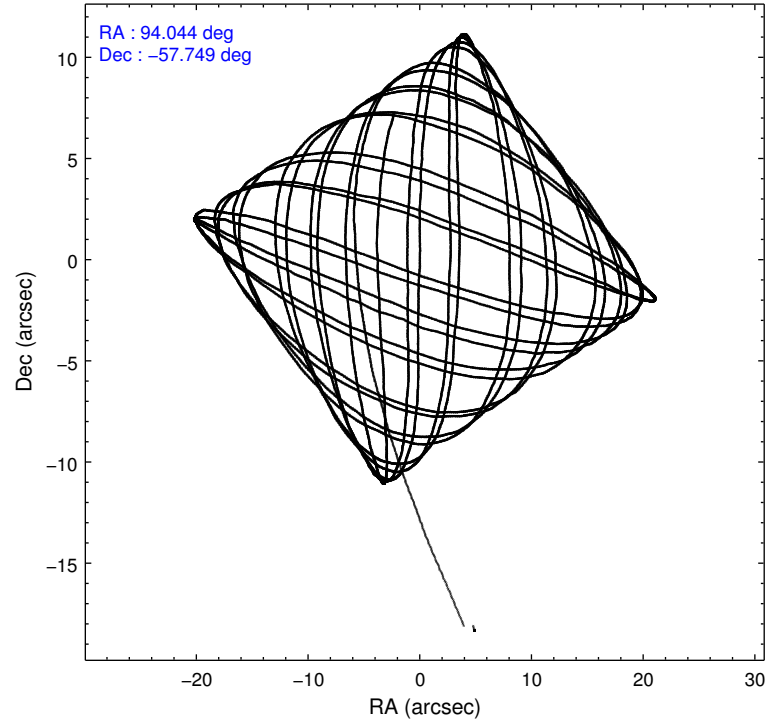
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	58188	61575	62584	62434	61150
rejected events	50657	53272	55289	53567	53421
rejected %	87%	86%	88%	85%	87%

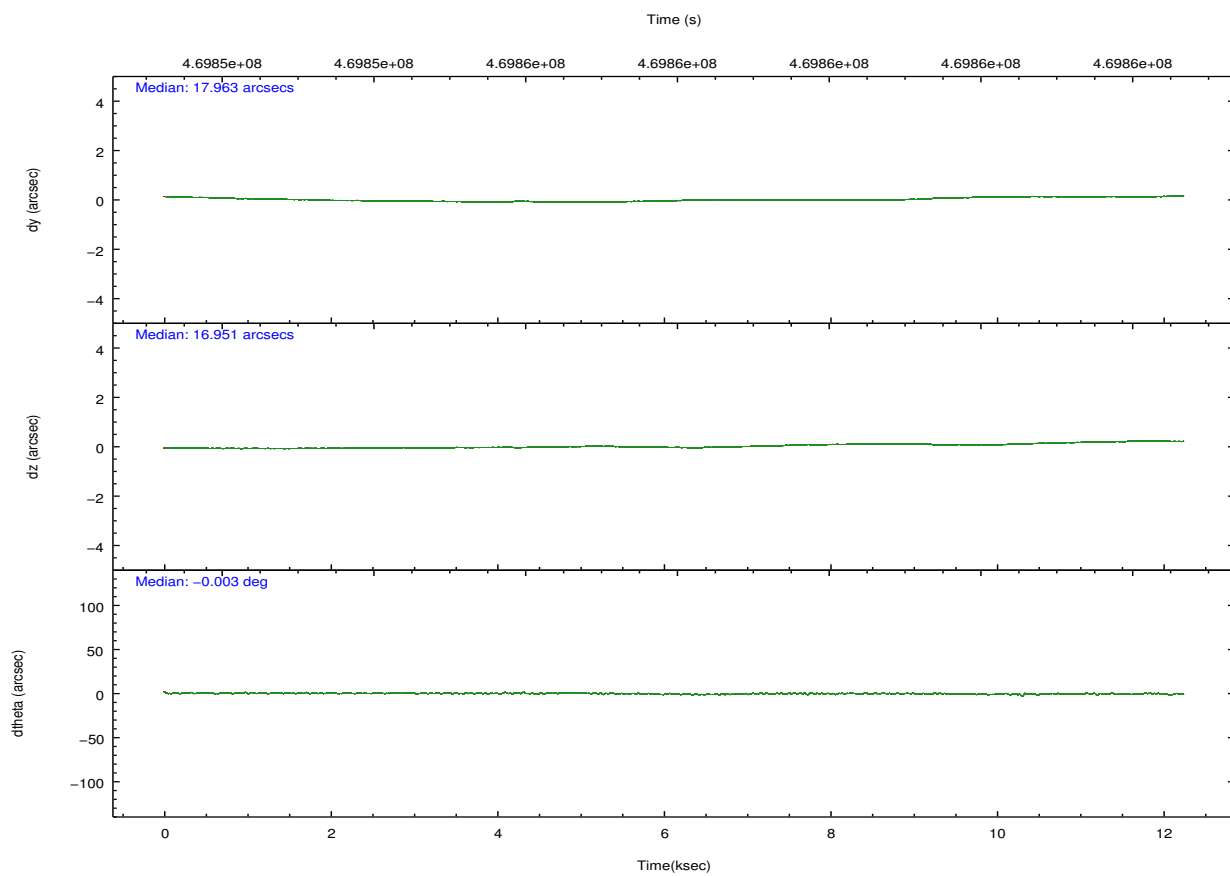
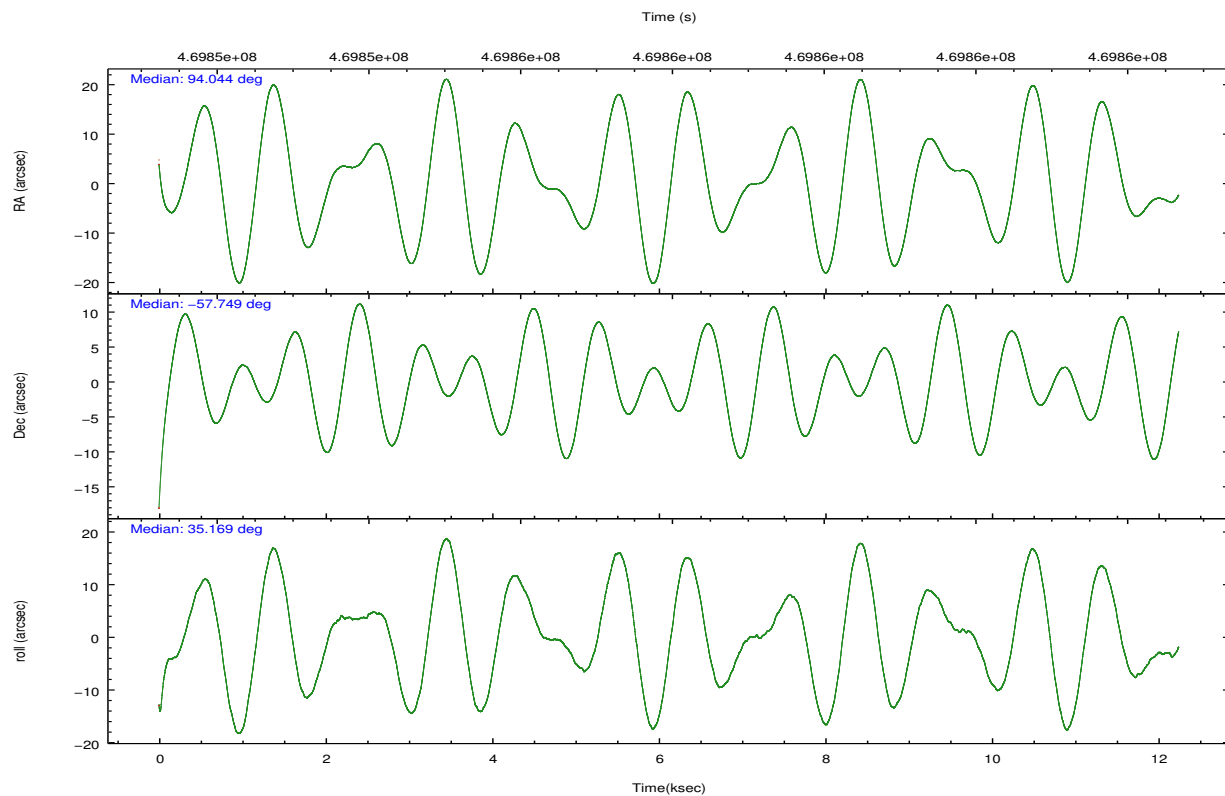
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2620	3075	2644	3893	2723
	4%	4%	4%	6%	4%
grade 1 events	25	42	38	43	27
	0%	0%	0%	0%	0%
grade 2 events	1810	1986	1723	1790	1737
	3%	3%	2%	2%	2%
grade 3 events	808	781	756	838	737
	1%	1%	1%	1%	1%
grade 4 events	733	801	753	819	775
	1%	1%	1%	1%	1%
grade 5 events	2947	3148	2870	3347	3192
	5%	5%	4%	5%	5%
grade 6 events	1562	1666	1422	1532	1757
	2%	2%	2%	2%	2%
grade 7 events	47683	50076	52378	50172	50202
	81%	81%	83%	80%	82%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	94.022331	94.0437692321868	CCD I2 on	Y	Y
[deg] Pointing Dec	-57.774301	-57.74931470857176	CCD I3 on	Y	Y
[deg] Pointing Roll	34.947076	35.17388410566637	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	O1	Y
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	469852075.184000	469851102.53851	CCD S5 on	N	N
Observation start date	2012-11-21T02:26:48	2012-11-21T02:11:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	469864075.184000	469864772.45174	On-chip summing requested	N	N
Observation end date	2012-11-21T05:46:48	2012-11-21T05:59:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



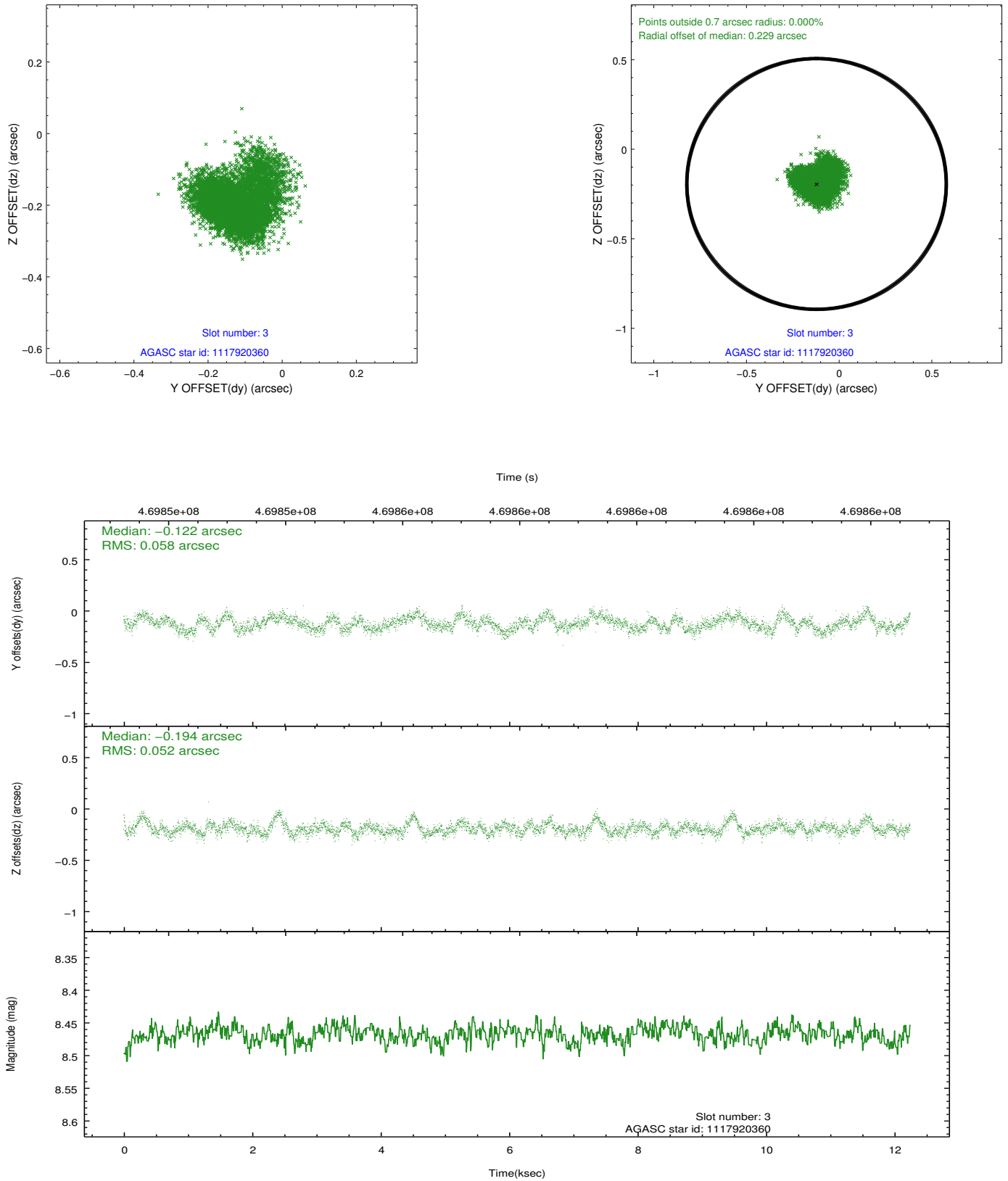


Slot Statistics

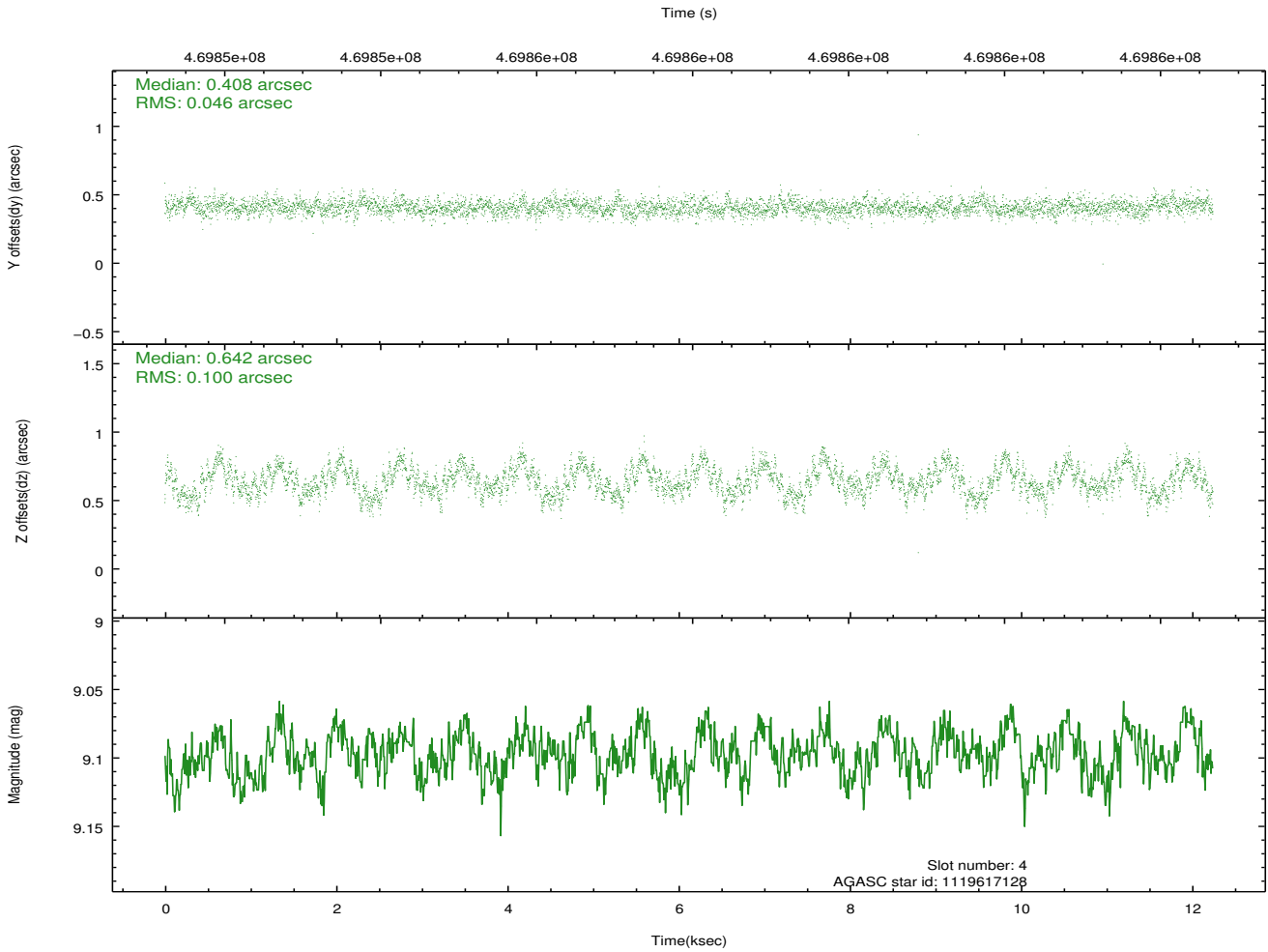
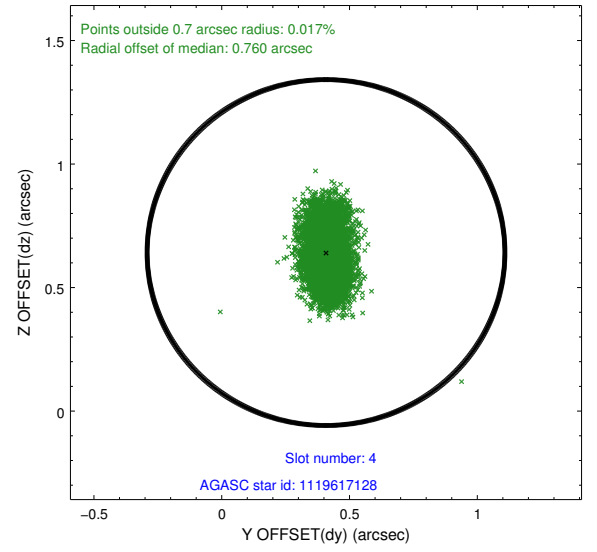
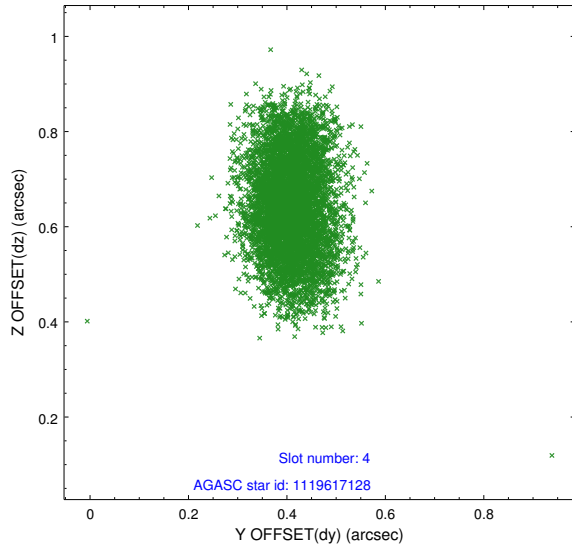
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	2987	0.161	-0.114	0.007	0.012	0.000000	0.000000	921.43	-999.81
1	FID		ACIS-I-5	7.12	2987	-0.317	0.127	0.006	0.011	0.000000	0.000000	-1826.96	897.62
2	FID		ACIS-I-6	7.13	2987	0.065	0.057	0.007	0.012	0.000000	0.000000	386.39	1542.55
3	GUIDE	used	1117920360	8.47	5973	-0.122	-0.194	0.082	0.136	92.689586	-57.826981	-2216.77	1287.19
4	GUIDE	used	1119617128	9.10	5971	0.408	0.642	0.118	0.195	93.986624	-58.000911	-522.57	-628.62
5	GUIDE	used	1119617976	7.99	5973	-0.240	-0.298	0.098	0.156	94.543198	-57.336411	1730.54	709.60
6	GUIDE	used	1119620096	8.99	5966	-0.176	0.003	0.087	0.139	94.803811	-58.054312	639.07	-1685.20
7	GUIDE	used	1119619792	9.40	5965	0.125	-0.158	0.135	0.201	93.499770	-57.916921	-1114.63	148.07

2.4 Star Slots

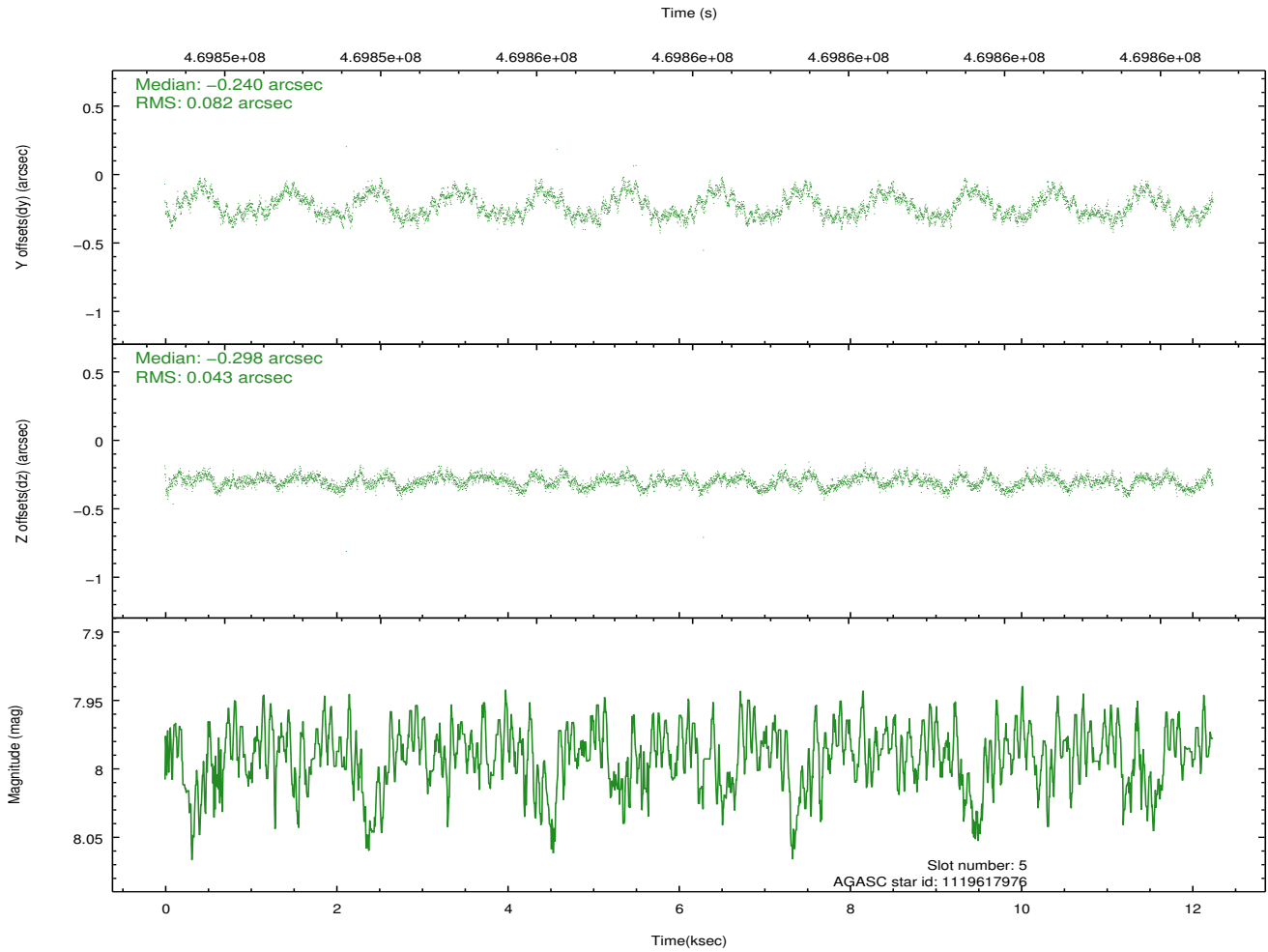
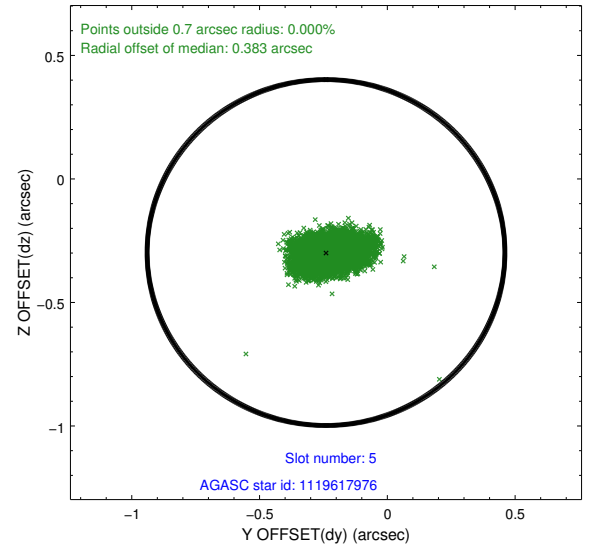
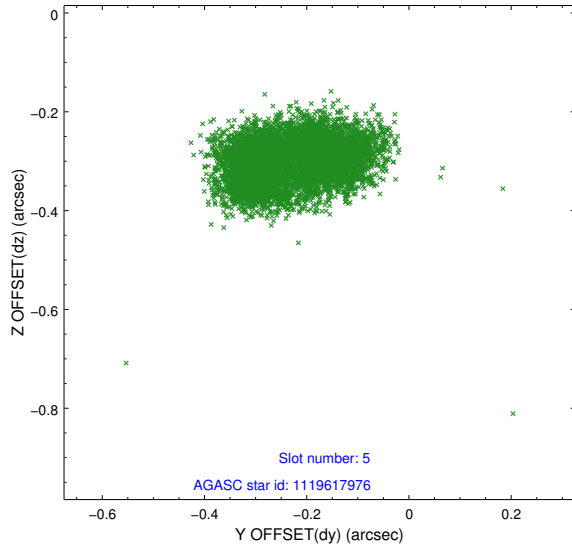
2.4.1 Slot 3



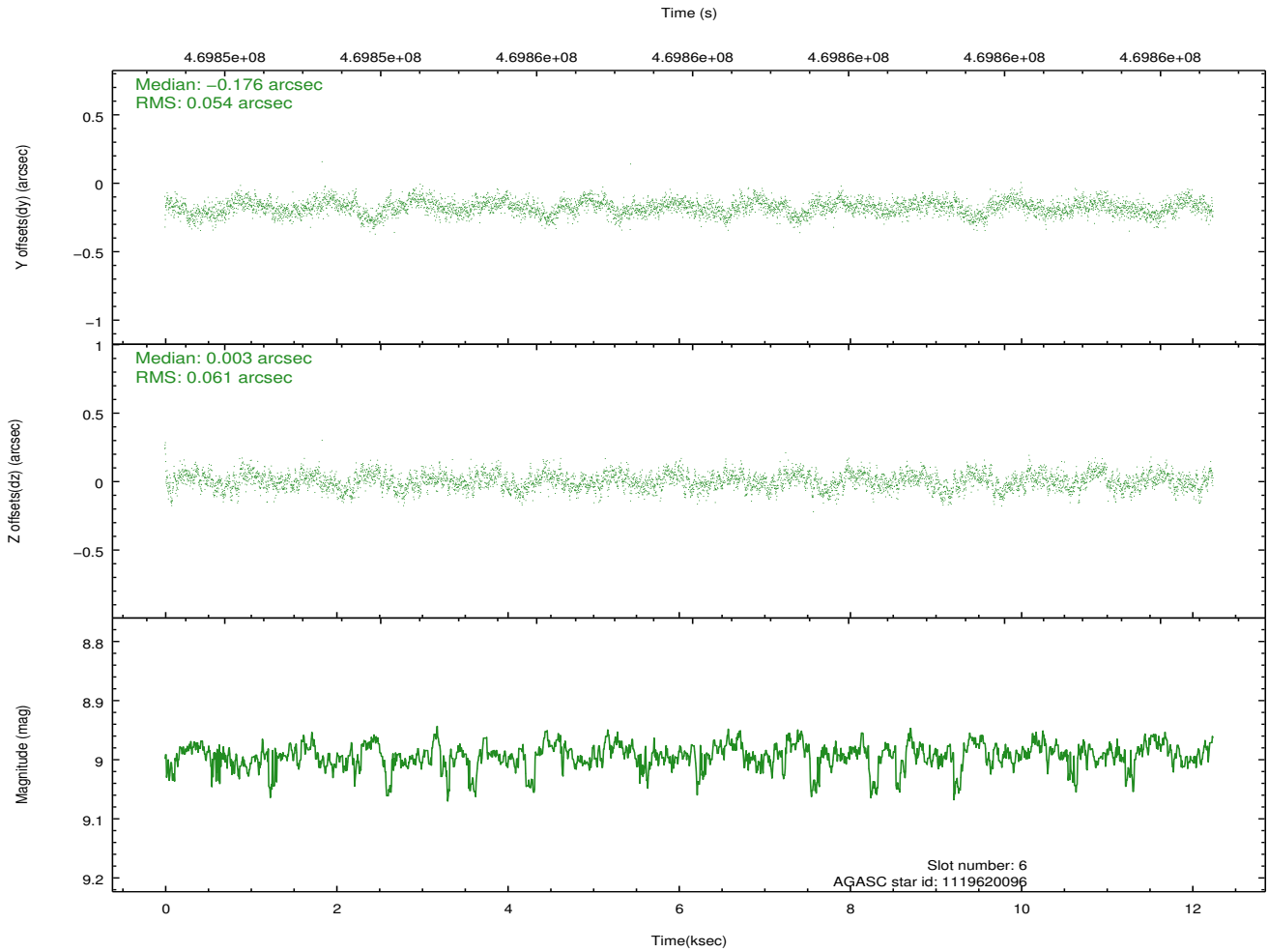
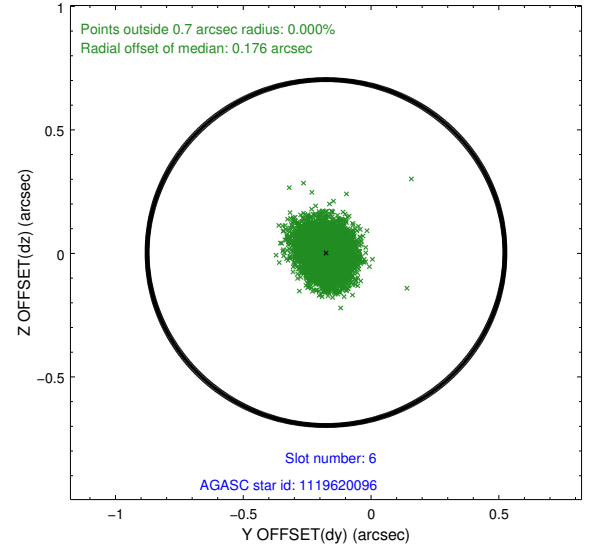
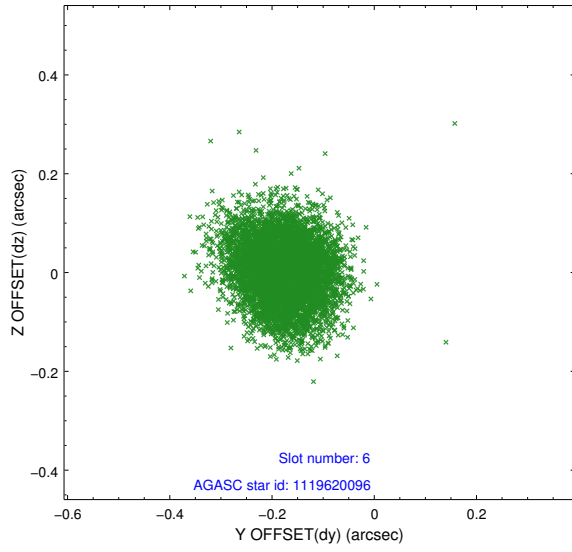
2.4.2 Slot 4



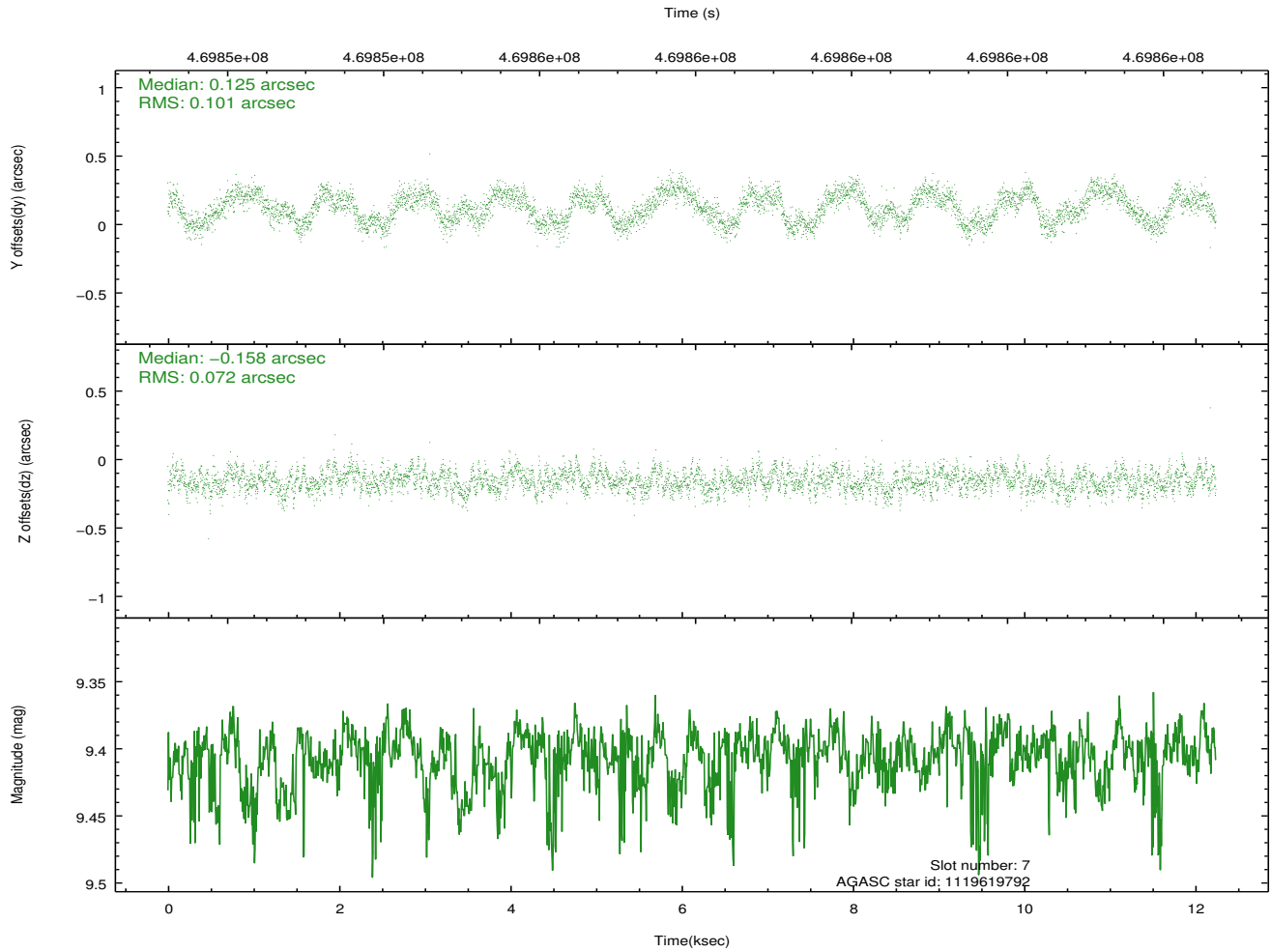
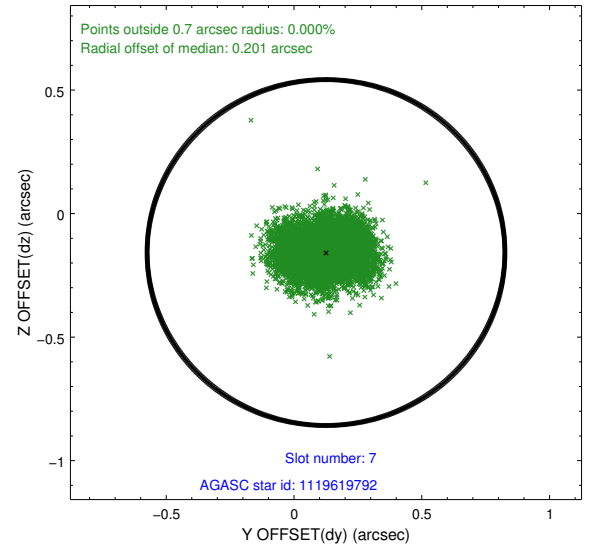
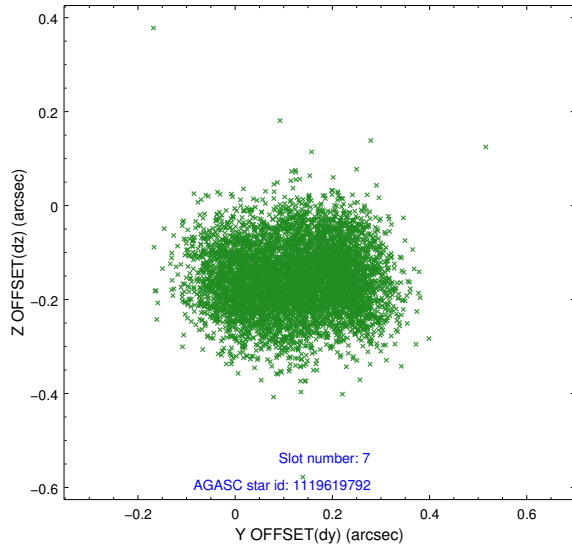
2.4.3 Slot 5



2.4.4 Slot 6

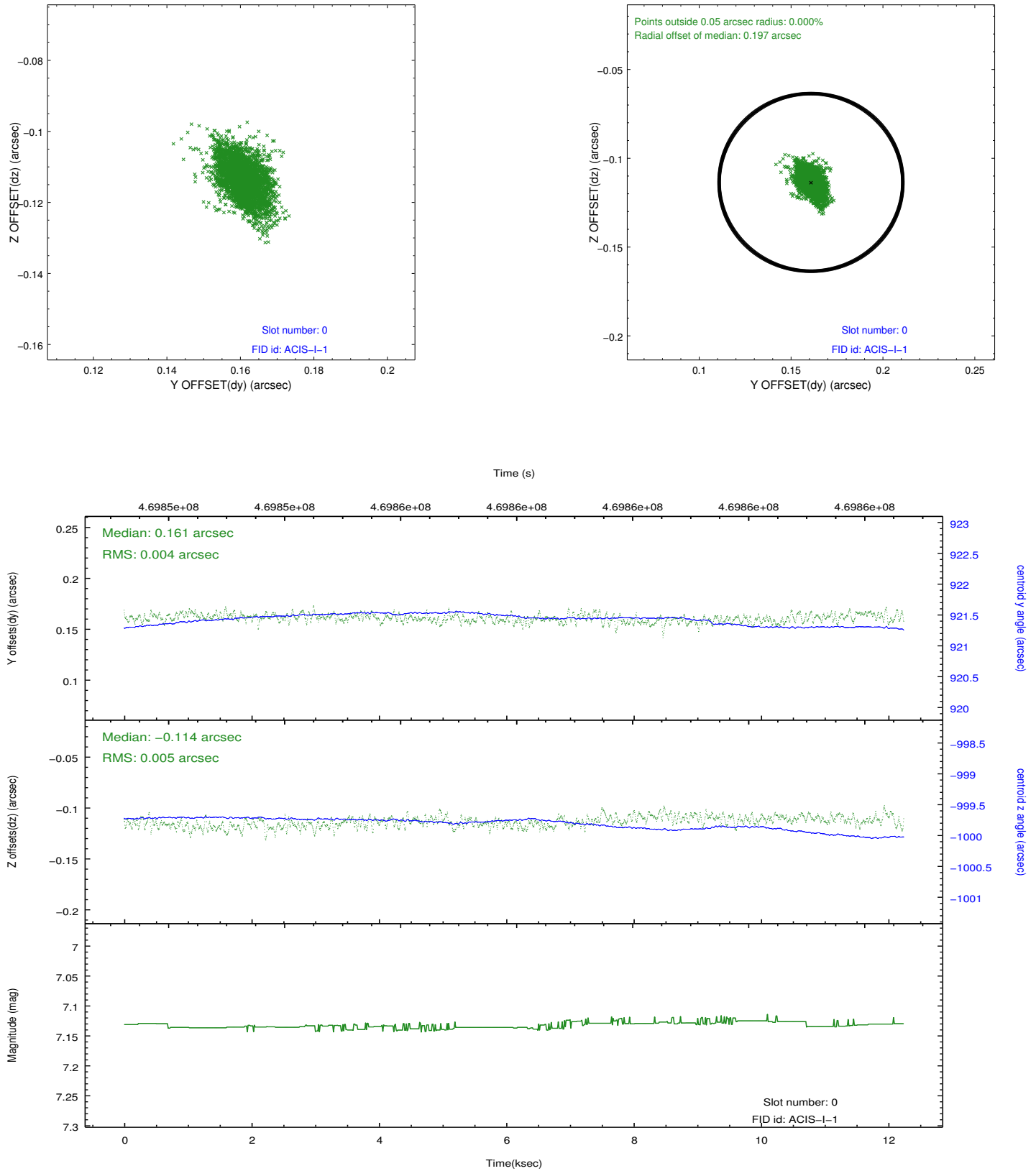


2.4.5 Slot 7

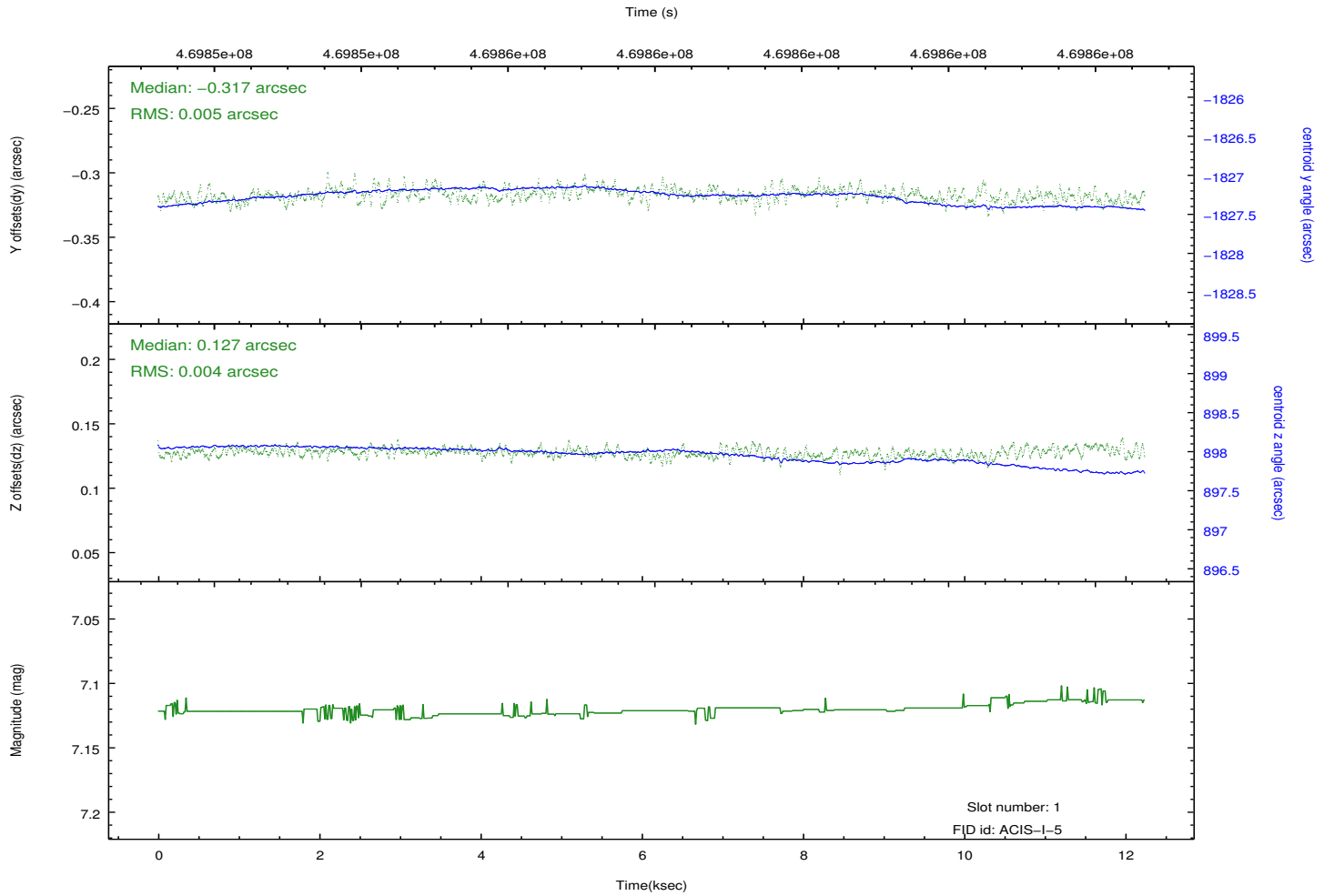
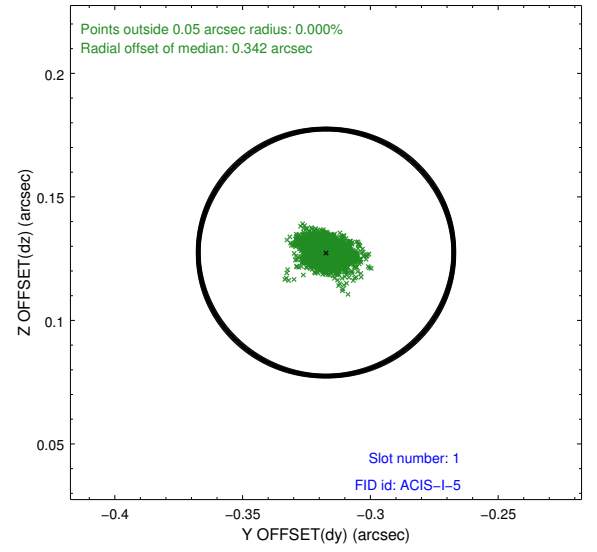
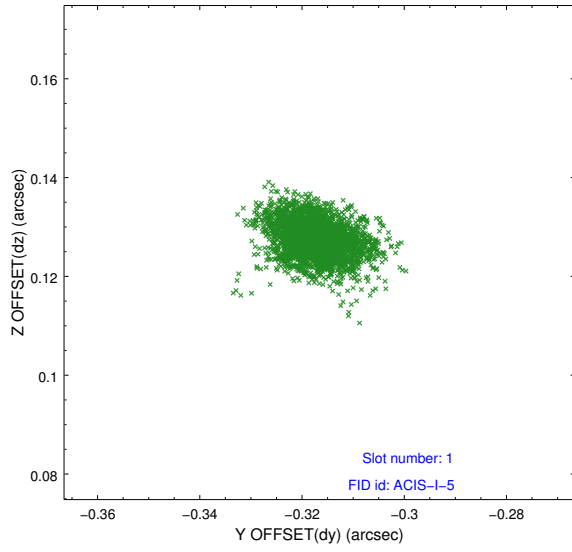


2.5 FID Slots

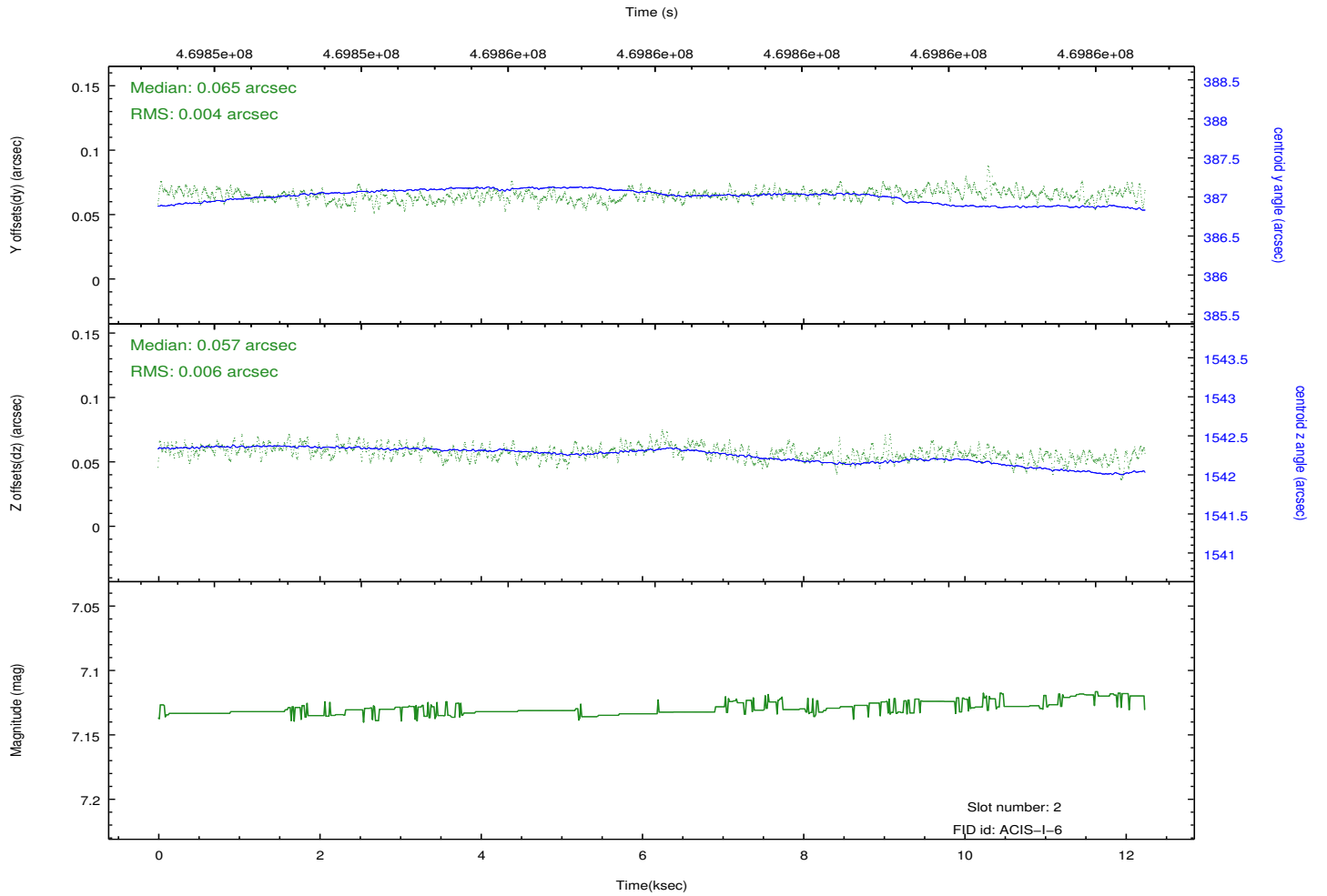
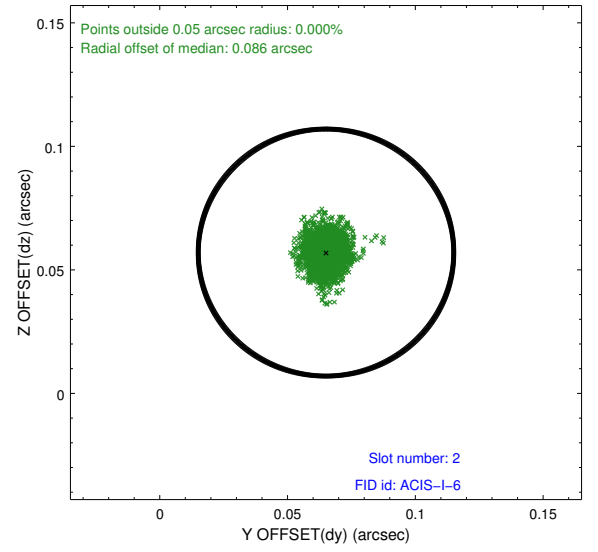
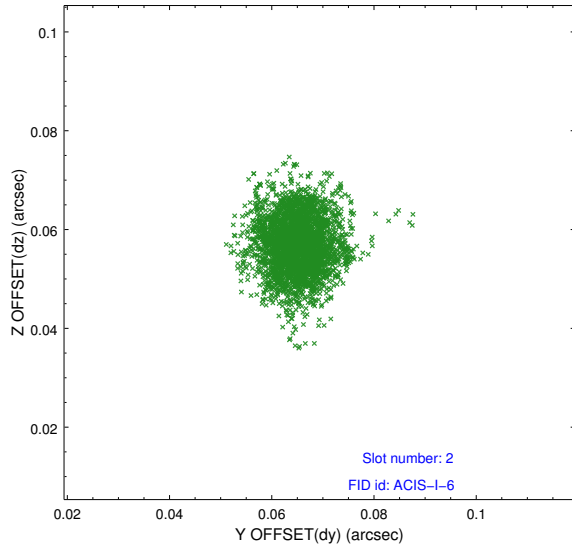
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.083623633444

A.2 Comments

Joint proposal with HST.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.