

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10851 - L2 Version 2
Chandra X-Ray Center

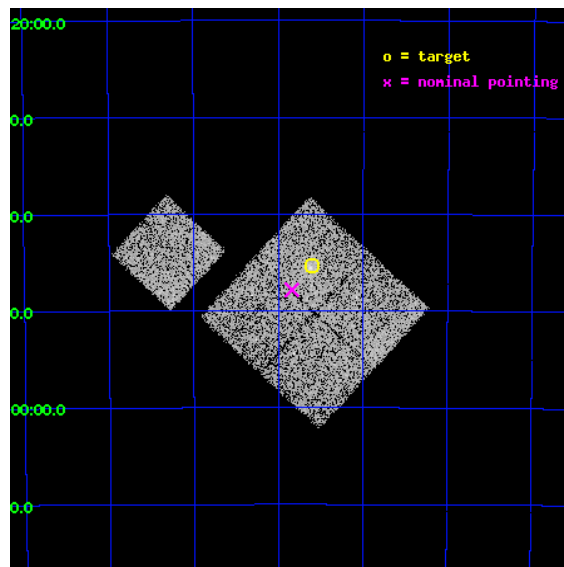
L2 Processing Date : Jun 1 2012

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1 Front

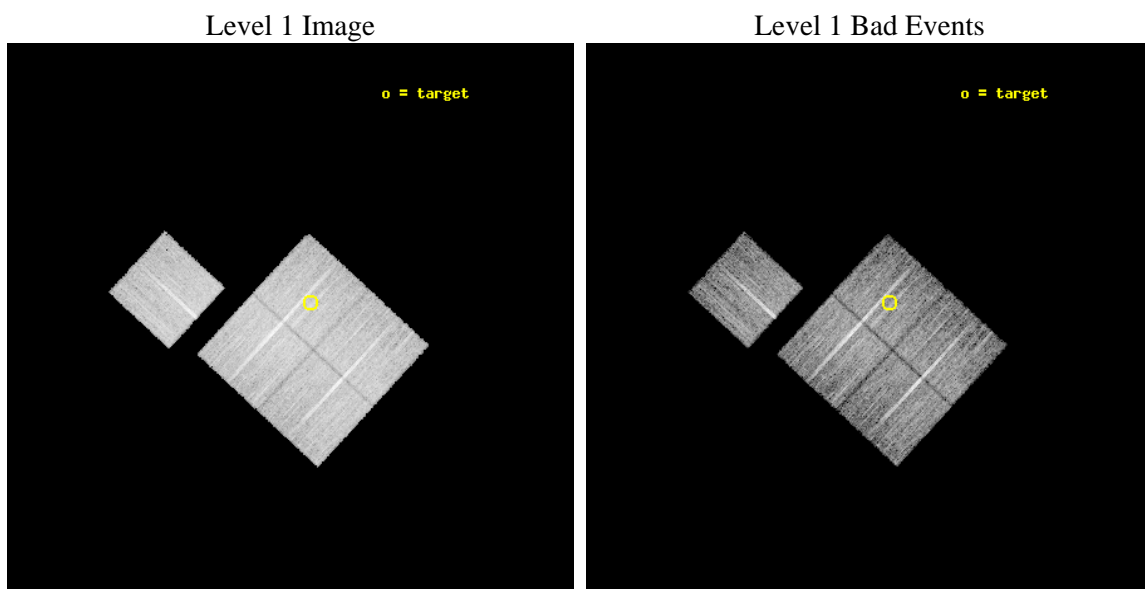
seq_num	800669	Sequence number
obs_id	10851	Observation id
title	Chandra Observations of SZ-selected Galaxy Clusters Detected by the South Pole Telescope	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SPT-CL 0547-5345	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.65	Observer's specified target RA [deg]
dec_targ	-53.756	Observer's specified target Dec [deg]
ra_nom	86.710126150177	Nominal RA [deg]
dec_nom	-53.797261689272	Nominal Dec [deg]
roll_nom	312.75718308157	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8633.5000663996	Sum of GTIs [s]
livetime	8520.6970321418	Livetime [s]
ontime0	8633.5000663996	Sum of GTIs [s]
ontime1	8633.5000663996	Sum of GTIs [s]
ontime2	8633.5000663996	Sum of GTIs [s]
ontime3	8633.5000663996	Sum of GTIs [s]
ontime6	8633.5000663996	Sum of GTIs [s]
l2events	31282	Number of level 2 events



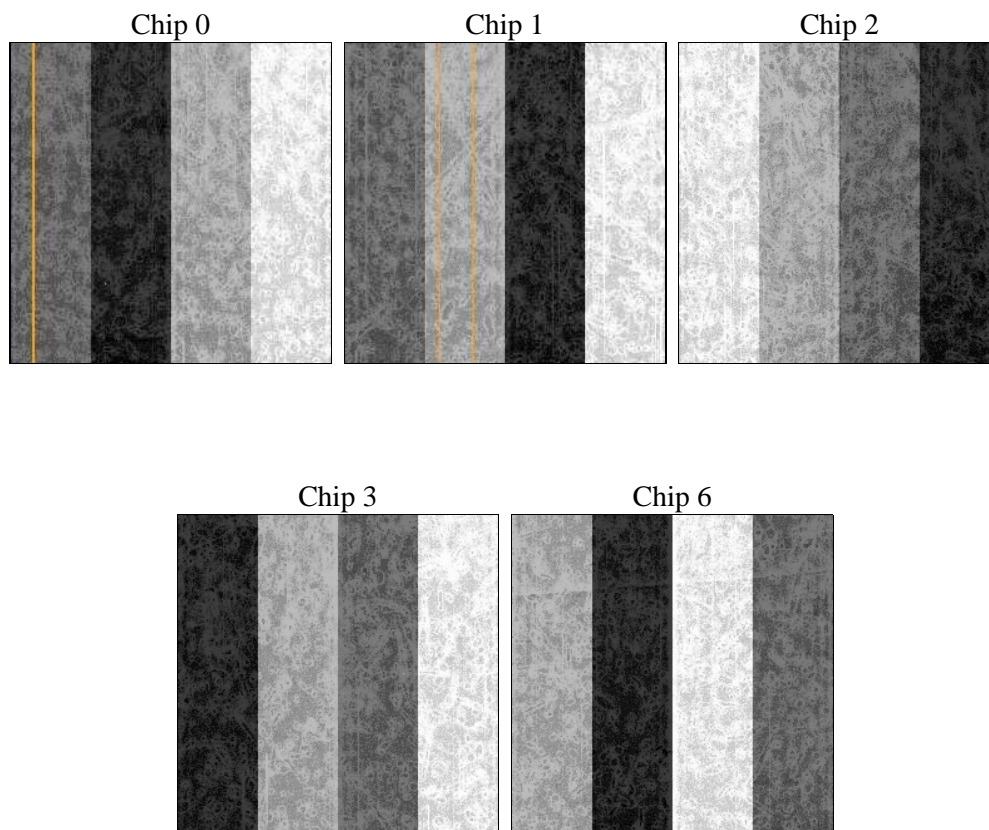
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8633.5000663996	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	8633.5000663996	Sum of GTIs [s]
date	2012-06-01T05:47:09	Date and time of file creation	ontime1	8633.5000663996	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8633.5000663996	Sum of GTIs [s]
			ontime3	8633.5000663996	Sum of GTIs [s]
			ontime6	8633.5000663996	Sum of GTIs [s]
			l1events	387473	Number of level 1 events

2.1.4 Events

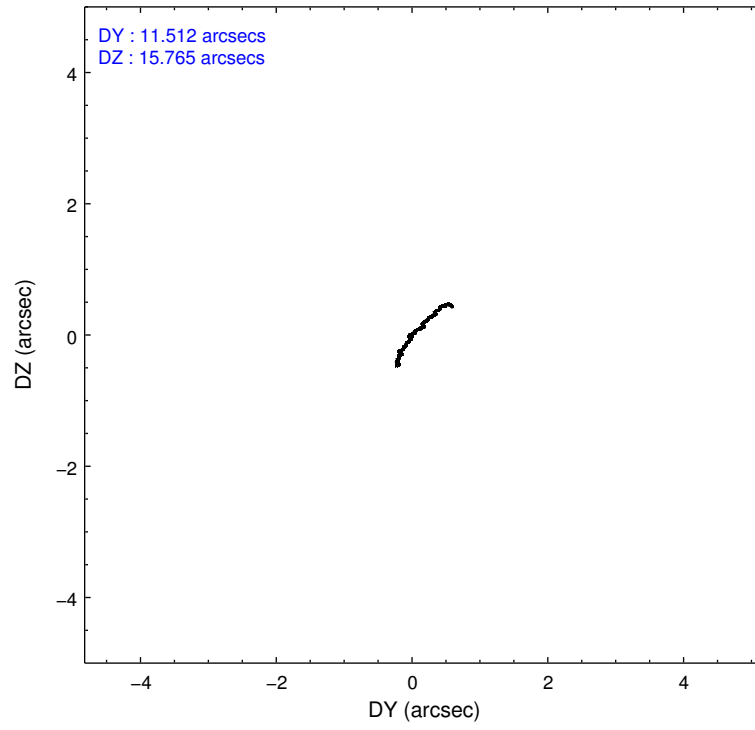
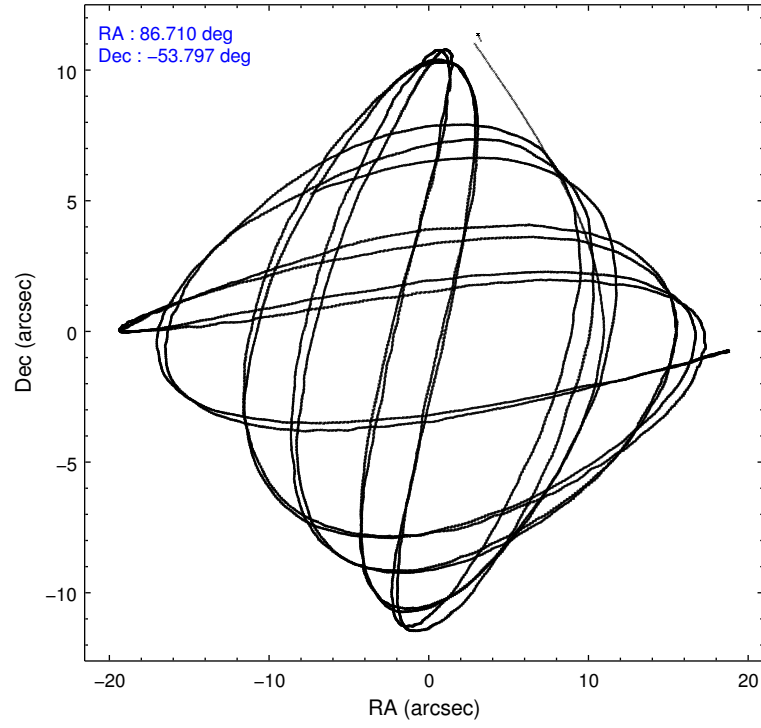
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	72838	75236	85700	76697	77002
rejected events	65453	67042	78343	69482	69428
rejected %	89%	89%	91%	90%	90%

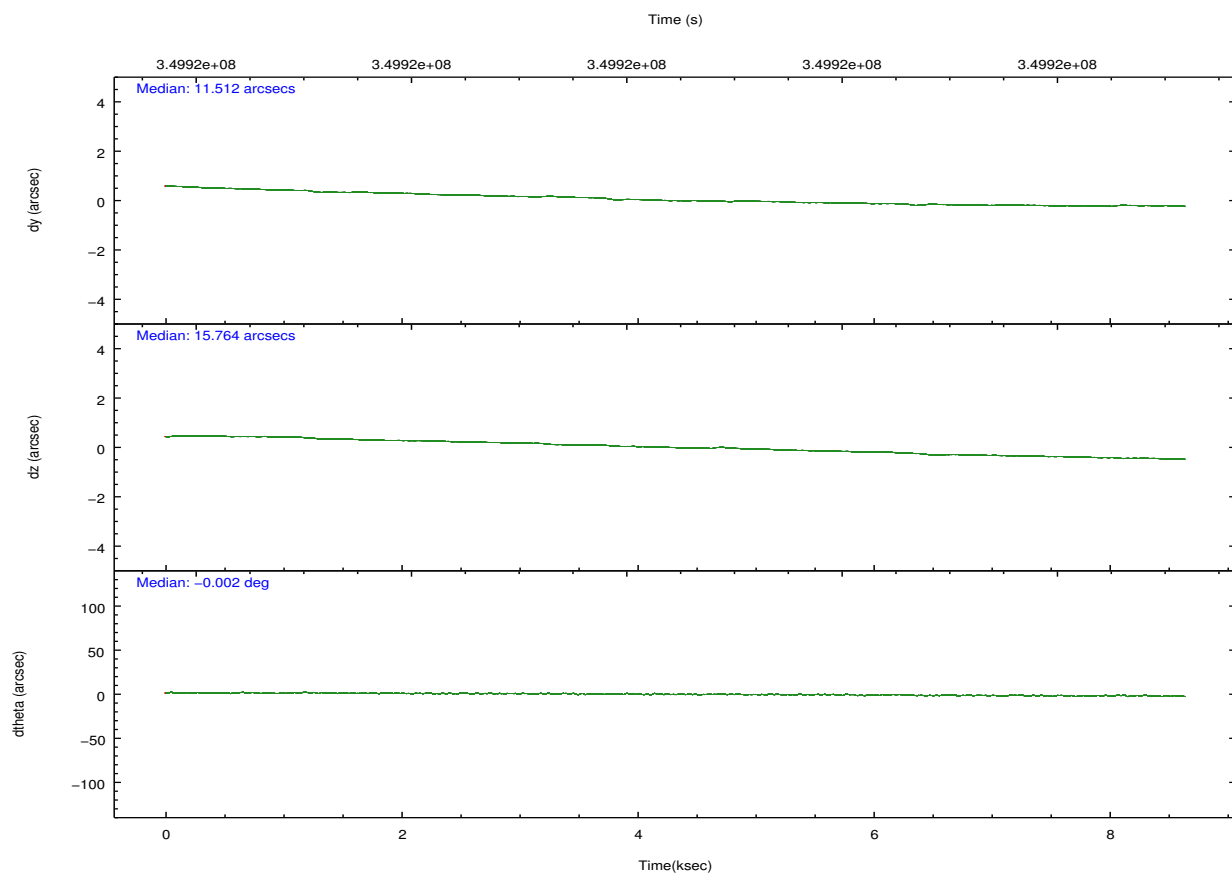
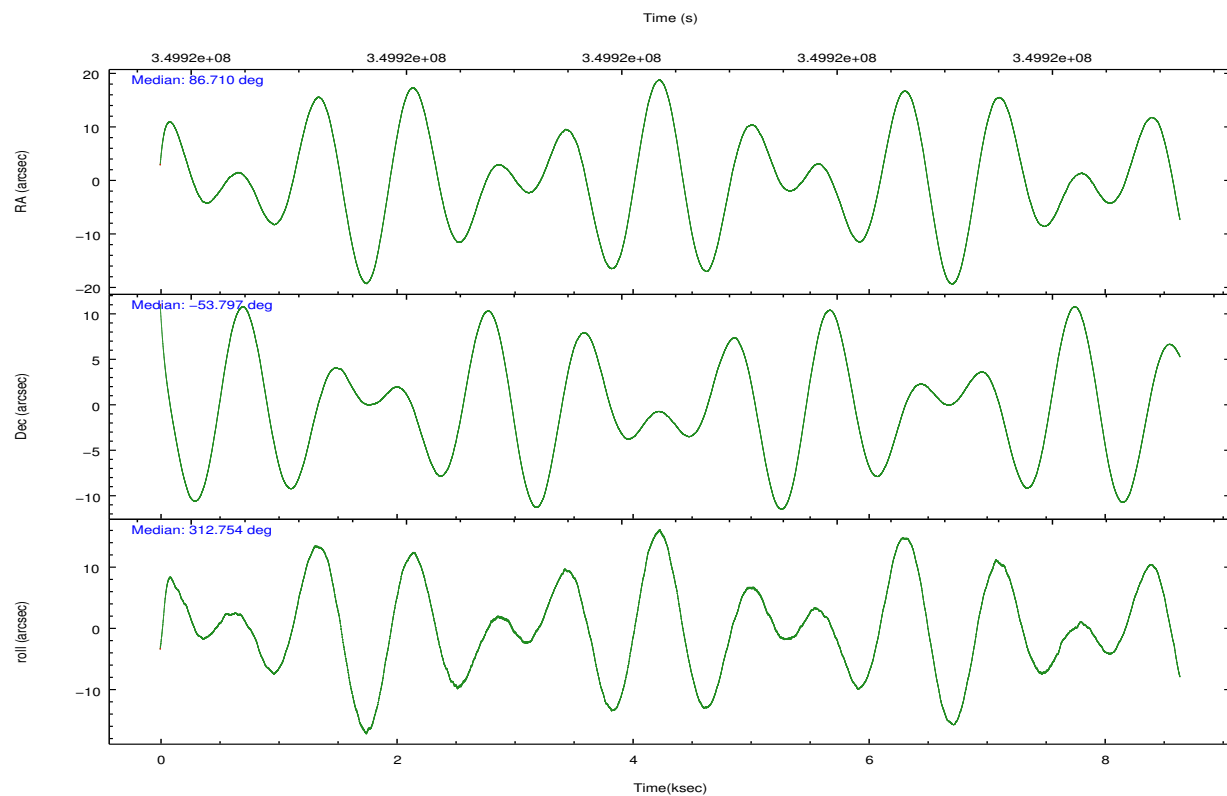
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2739	3132	2781	2893	2825
	3%	4%	3%	3%	3%
grade 1 events	32	37	54	43	42
	0%	0%	0%	0%	0%
grade 2 events	1854	2046	1859	1634	1760
	2%	2%	2%	2%	2%
grade 3 events	924	919	815	837	855
	1%	1%	0%	1%	1%
grade 4 events	797	921	842	844	868
	1%	1%	0%	1%	1%
grade 5 events	2804	3006	2720	3281	3032
	3%	3%	3%	4%	3%
grade 6 events	1544	1768	1551	1501	1804
	2%	2%	1%	1%	2%
grade 7 events	62144	63407	75078	65664	65816
	85%	84%	87%	85%	85%

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	86.665523	86.71012615017722	CCD I2 on	Y	Y
[deg] Pointing Dec	-53.789193	-53.79726168927166	CCD I3 on	Y	Y
[deg] Pointing Roll	312.512518	312.757183081573	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	-225.840463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	349916261.184000	349914999.77176	CCD S5 on	N	N
Observation start date	2009-02-01T22:56:35	2009-02-01T22:36:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	349924761.184000	349925408.13478	On-chip summing requested	N	N
Observation end date	2009-02-02T01:18:15	2009-02-02T01:30:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



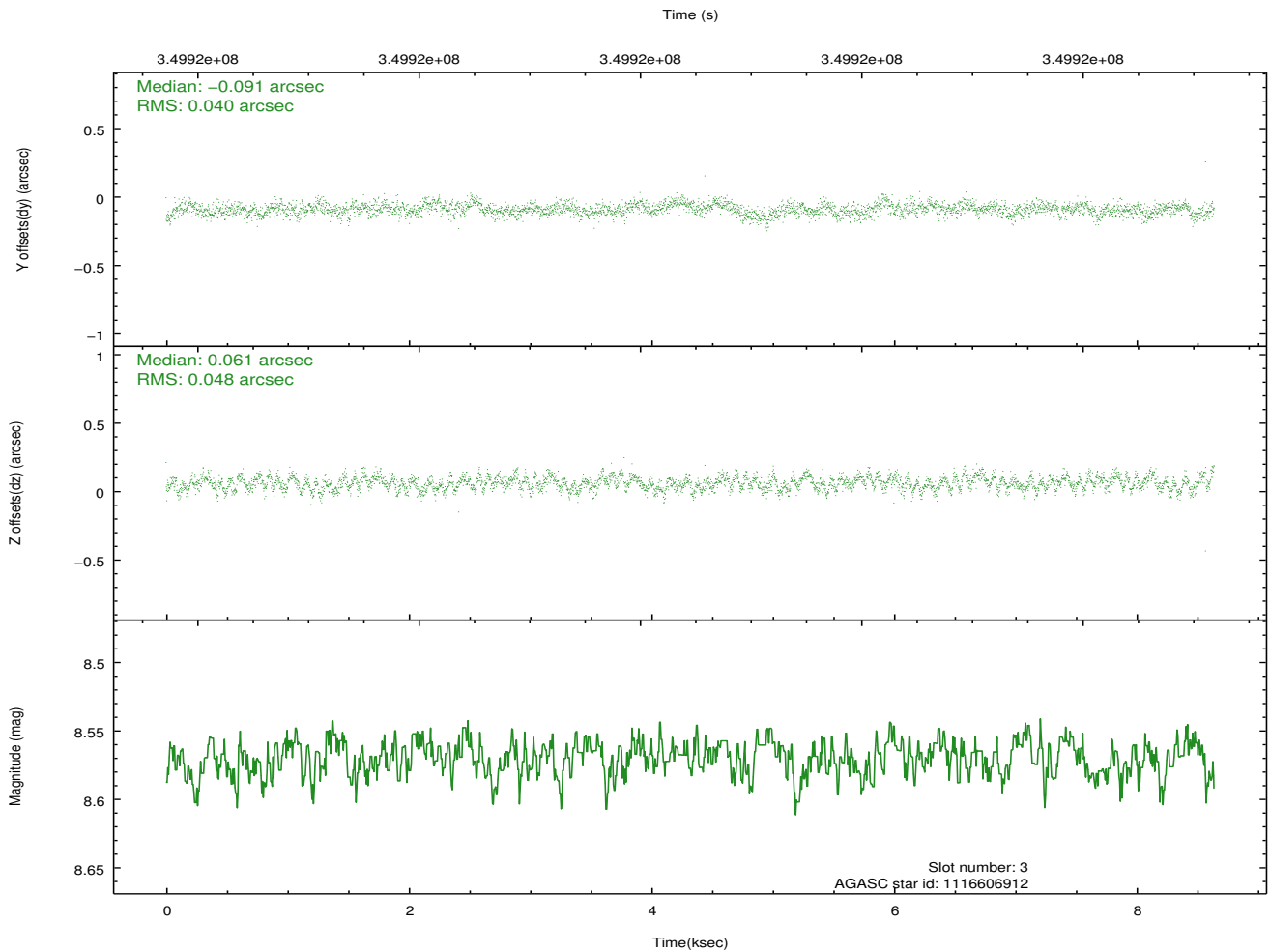
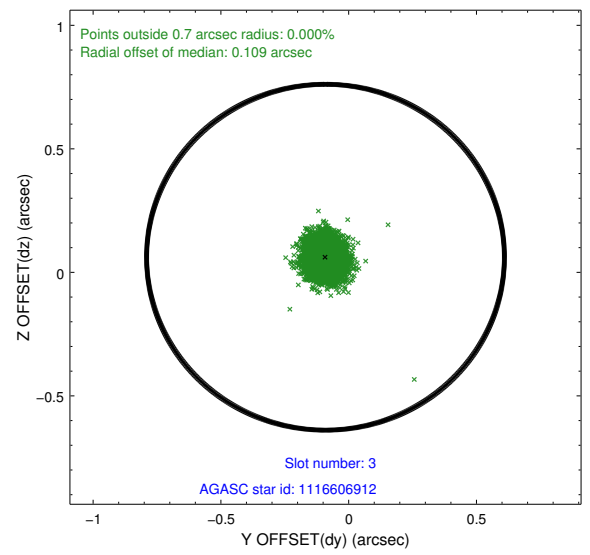
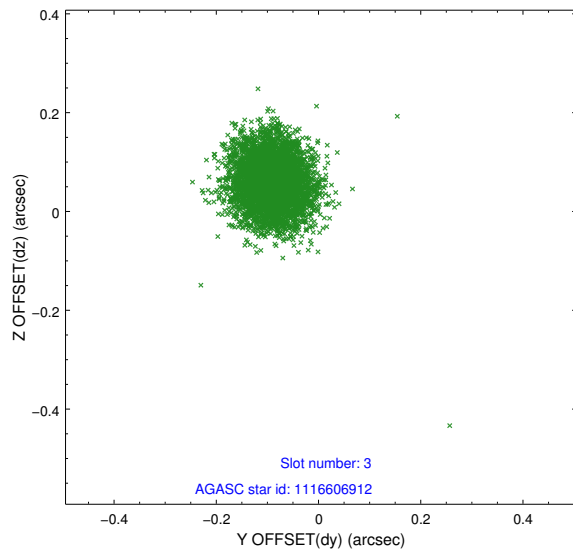


Slot Statistics

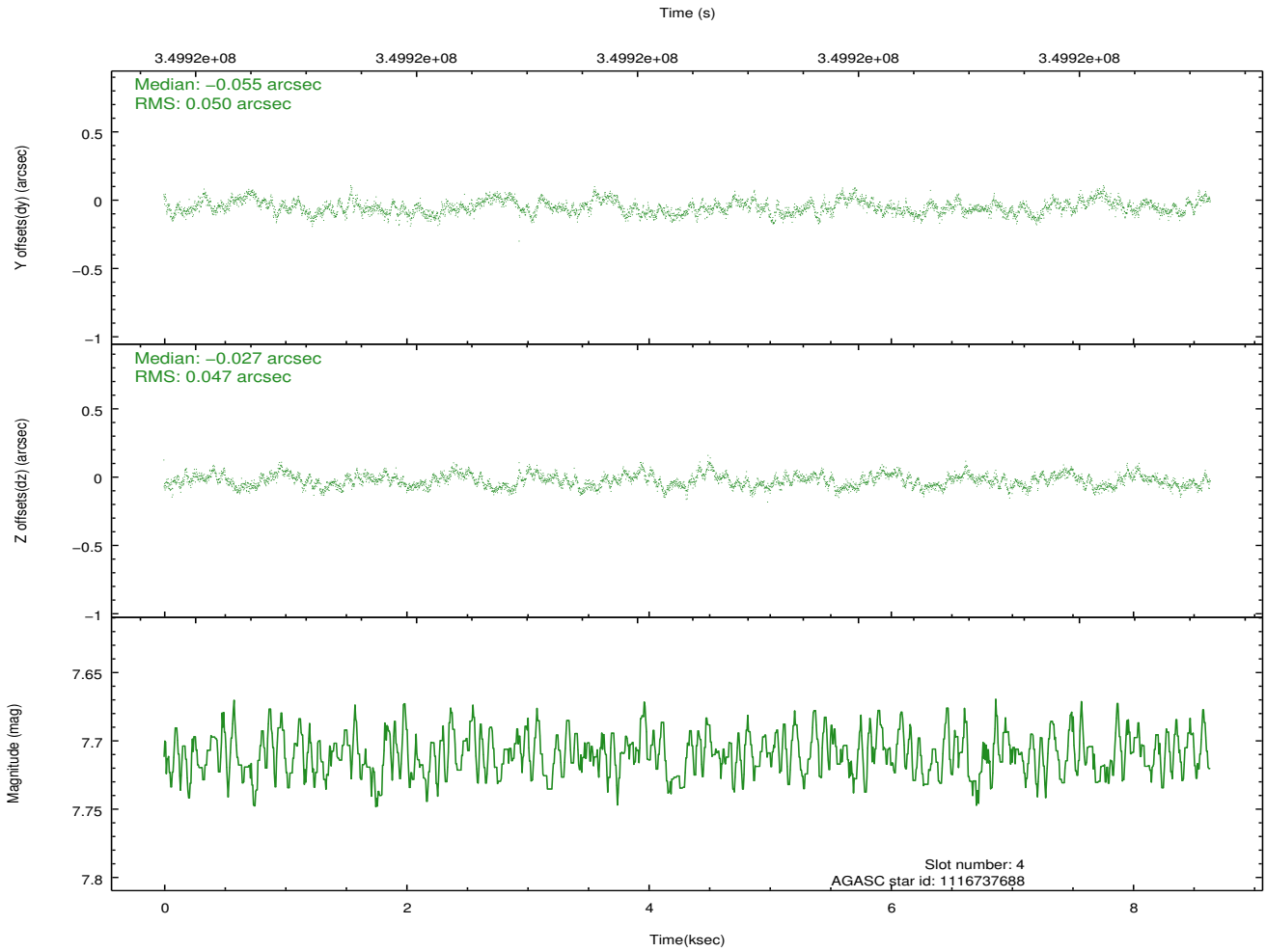
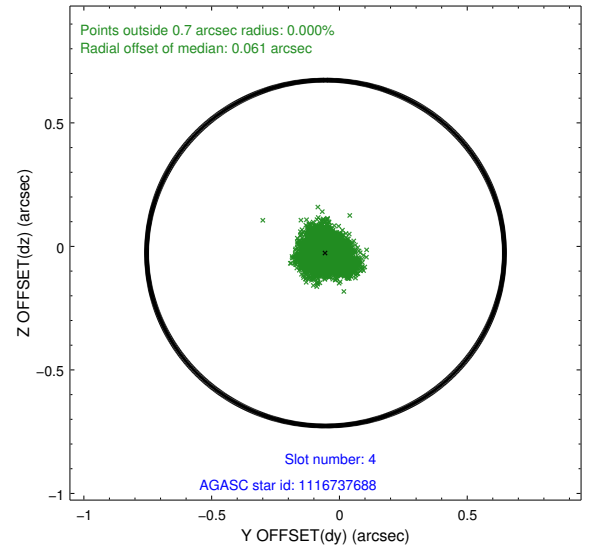
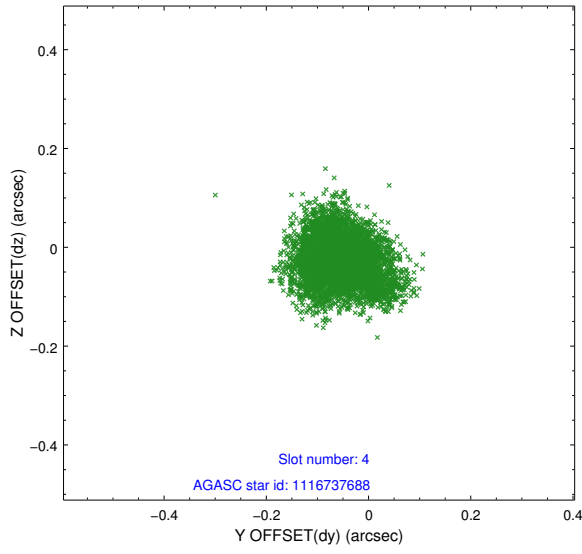
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	2108	0.126	-0.101	0.012	0.022	0.000000	0.000000	927.94	-998.53
1	FID	ACIS-I-5	7.01	2108	-0.236	0.114	0.010	0.016	0.000000	0.000000	-1820.16	898.79
2	FID	ACIS-I-6	7.04	2108	0.018	0.058	0.010	0.016	0.000000	0.000000	392.70	1543.96
3	GUIDE	1116606912	8.57	4213	-0.091	0.061	0.067	0.105	86.539686	-54.008936	403.47	-730.84
4	GUIDE	1116737688	7.71	4214	-0.055	-0.027	0.074	0.116	87.142567	-53.676424	391.91	1021.39
5	GUIDE	1116744312	8.87	4206	0.018	0.146	0.082	0.129	86.852265	-53.996599	817.92	-213.12
6	GUIDE	1116605616	9.31	4206	0.083	-0.082	0.090	0.146	86.278487	-53.177173	-2186.42	871.59
7	GUIDE	1116738280	8.14	4215	0.040	-0.098	0.066	0.106	87.869951	-53.655711	1397.89	2204.00

2.4 Star Slots

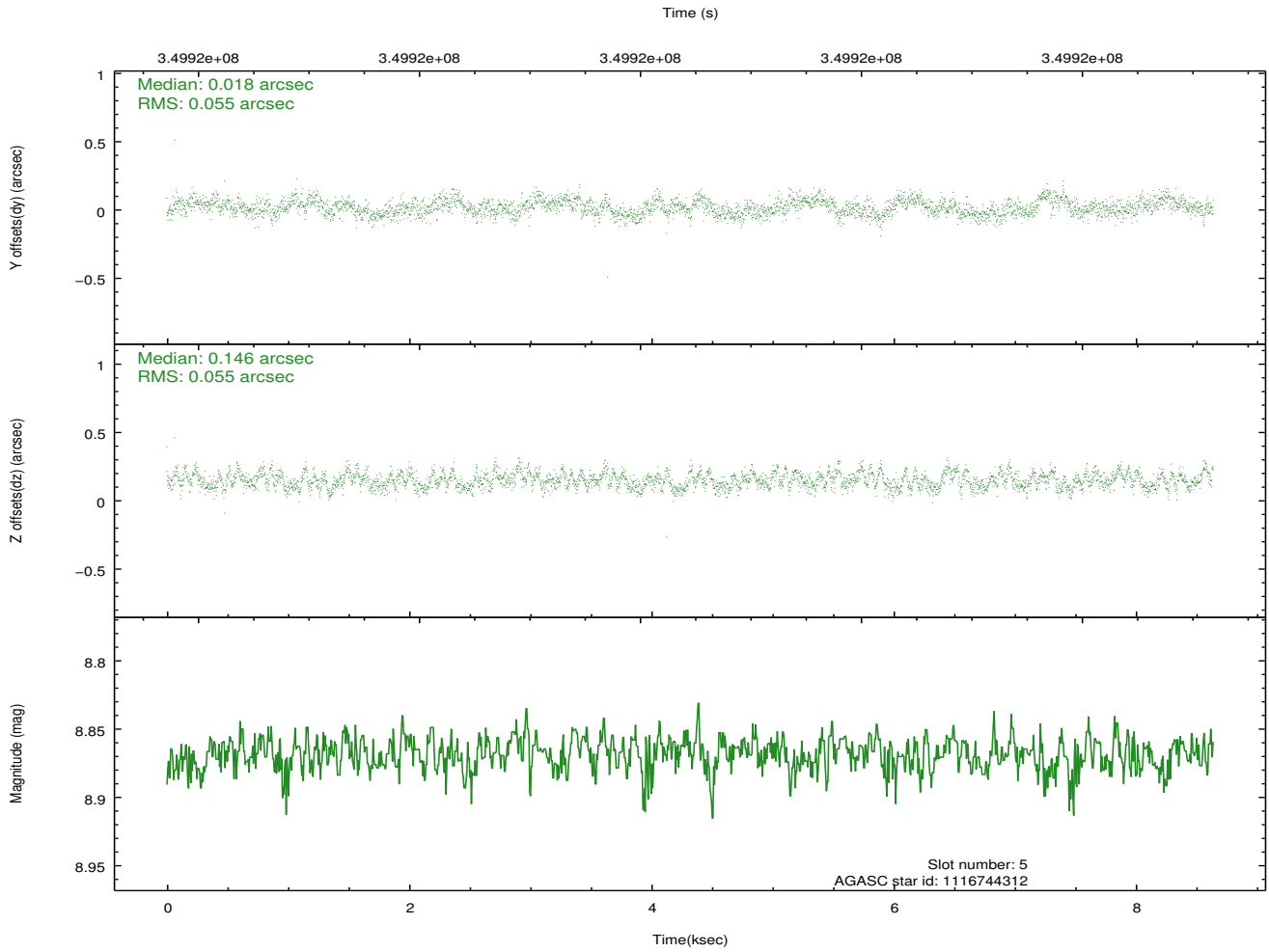
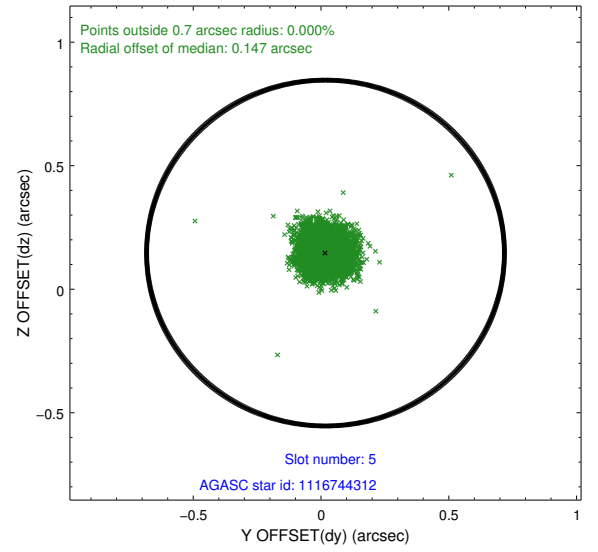
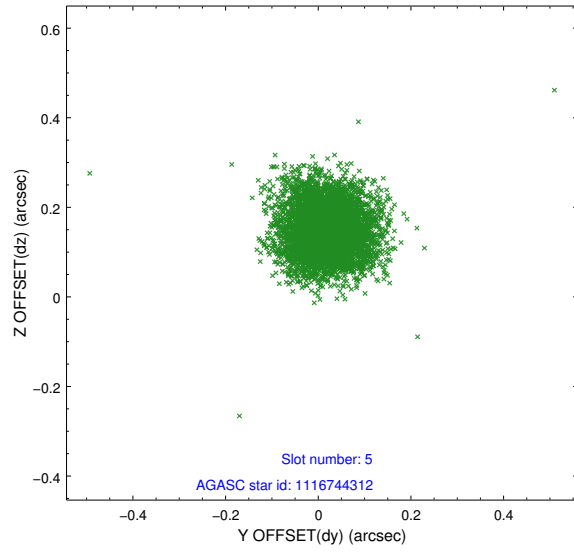
2.4.1 Slot 3



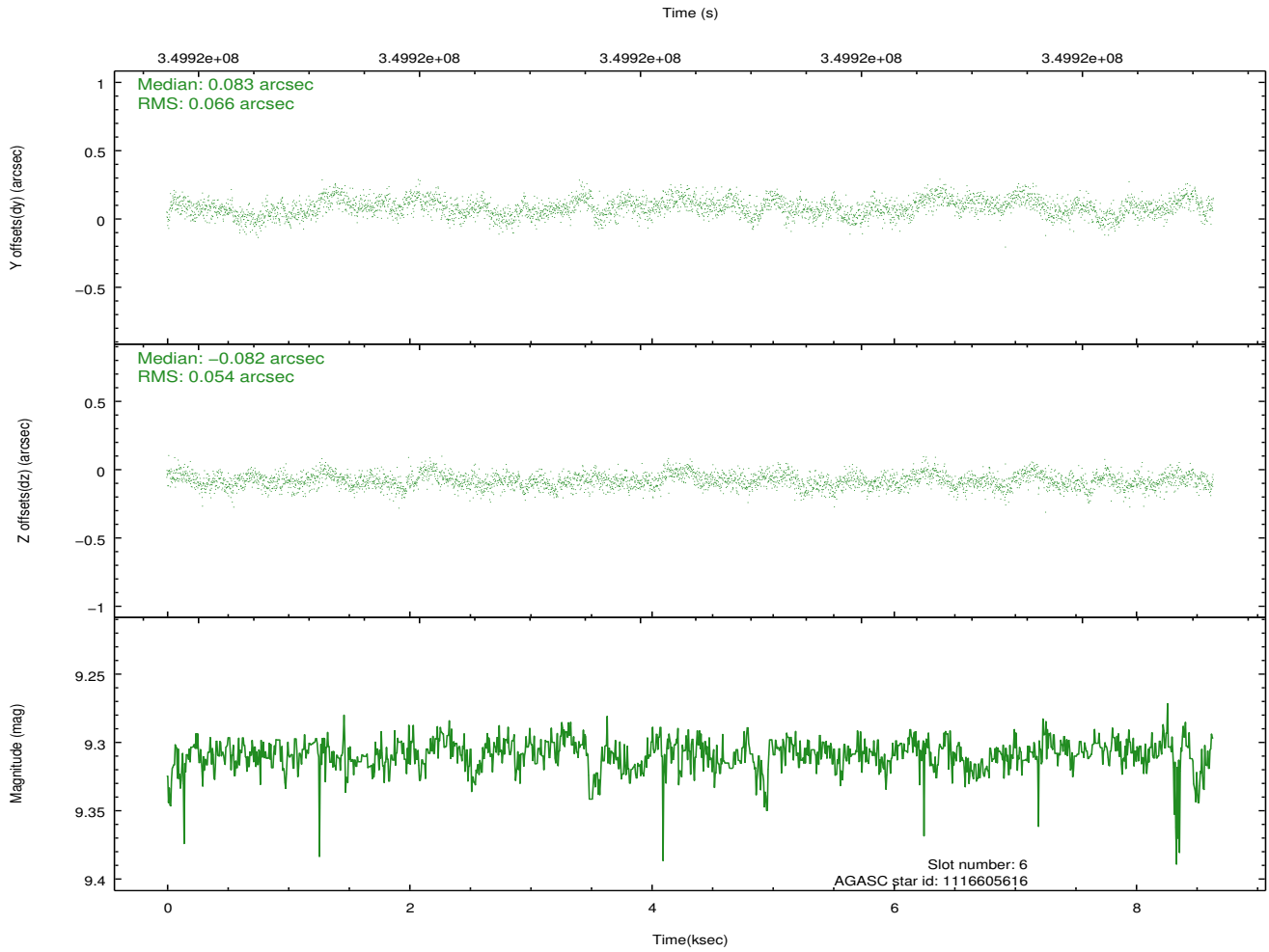
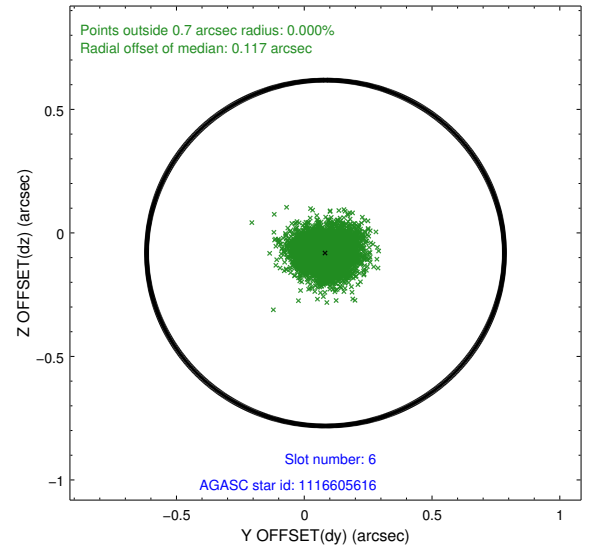
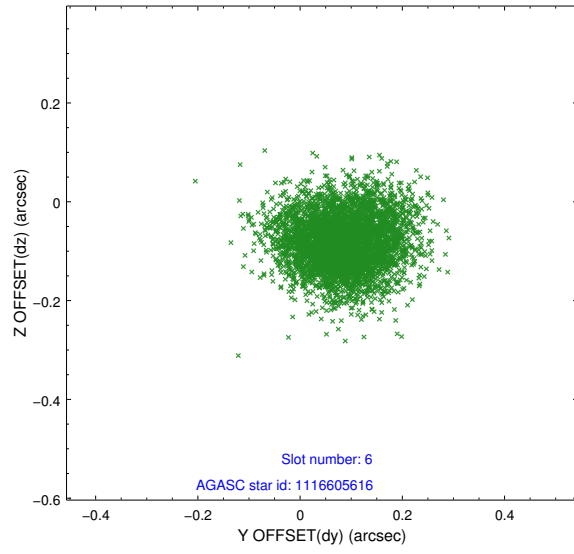
2.4.2 Slot 4



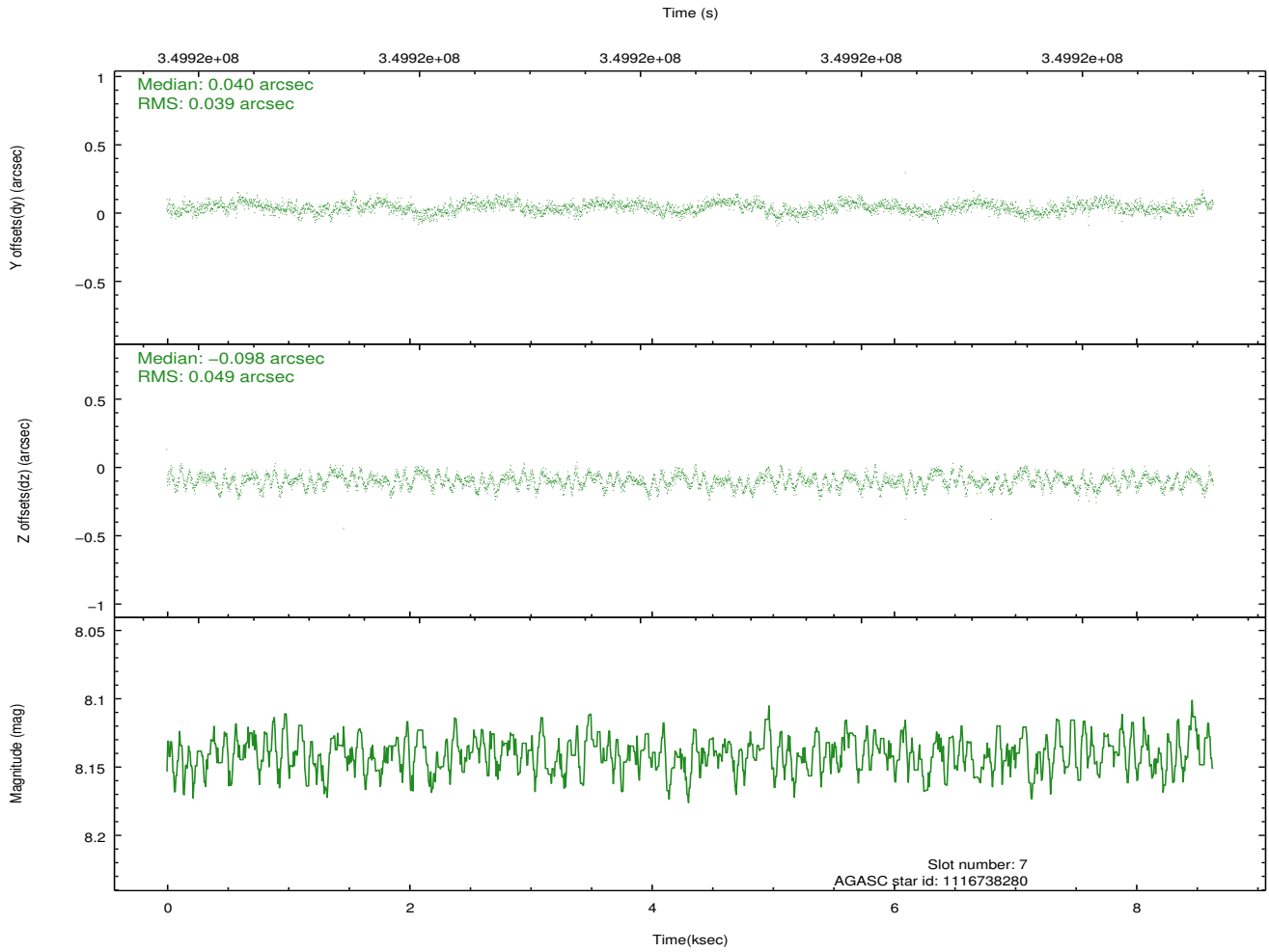
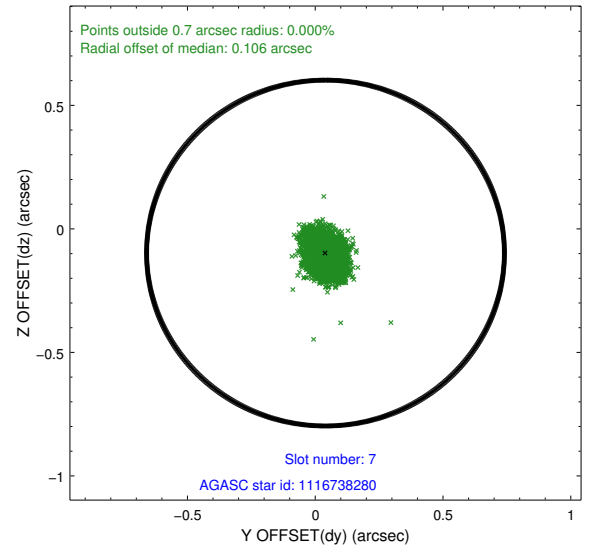
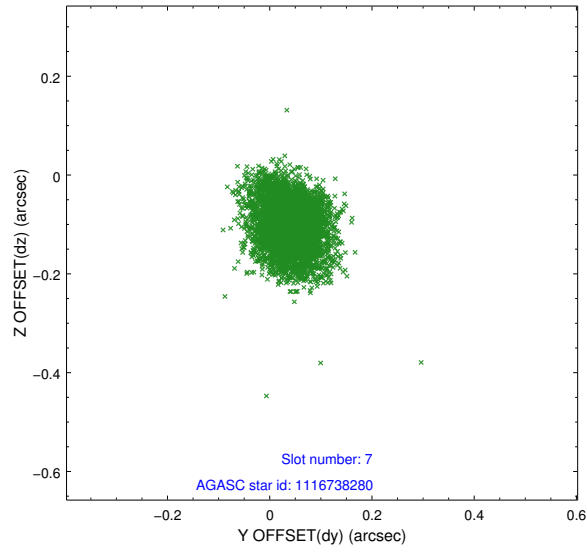
2.4.3 Slot 5



2.4.4 Slot 6

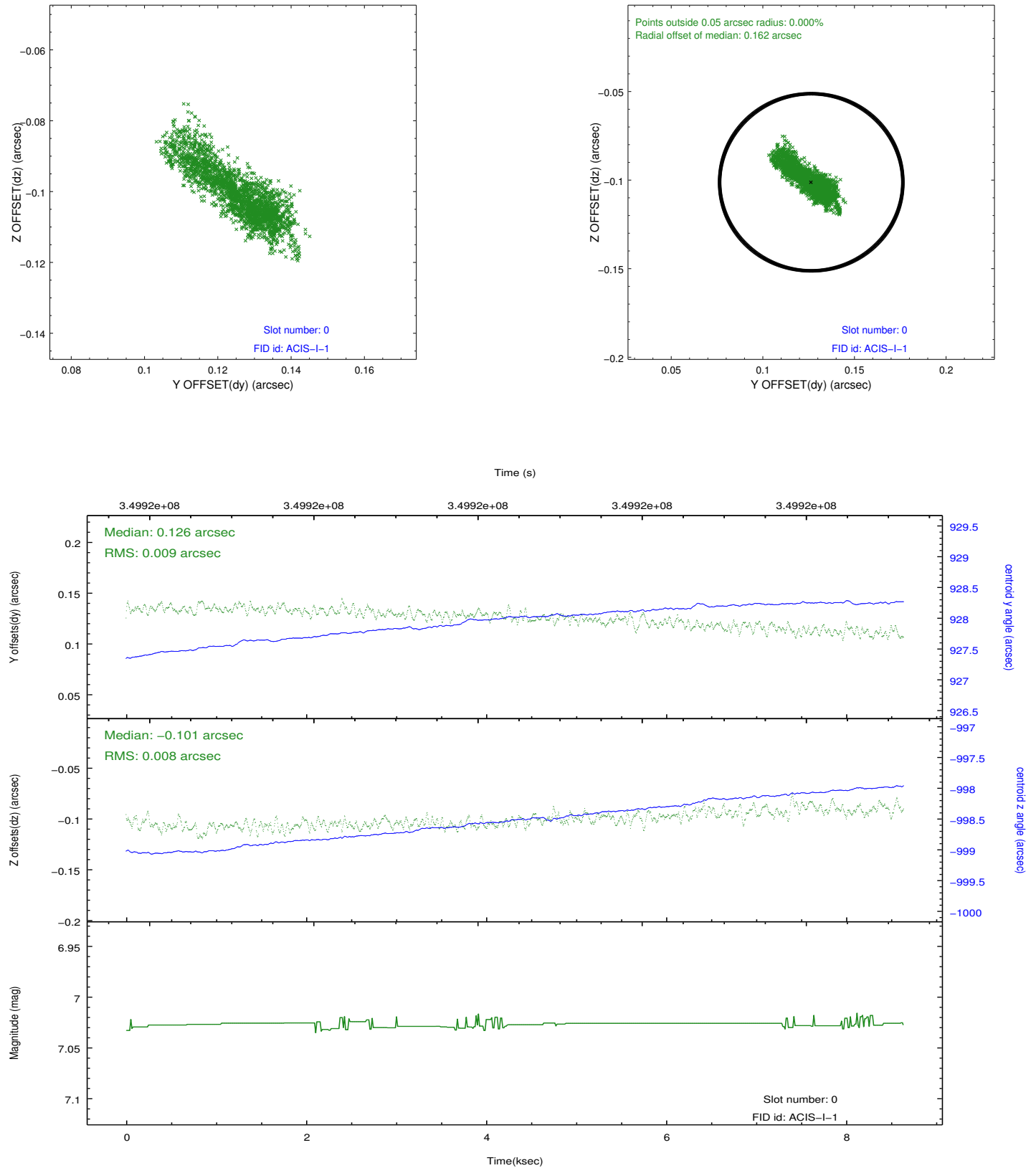


2.4.5 Slot 7

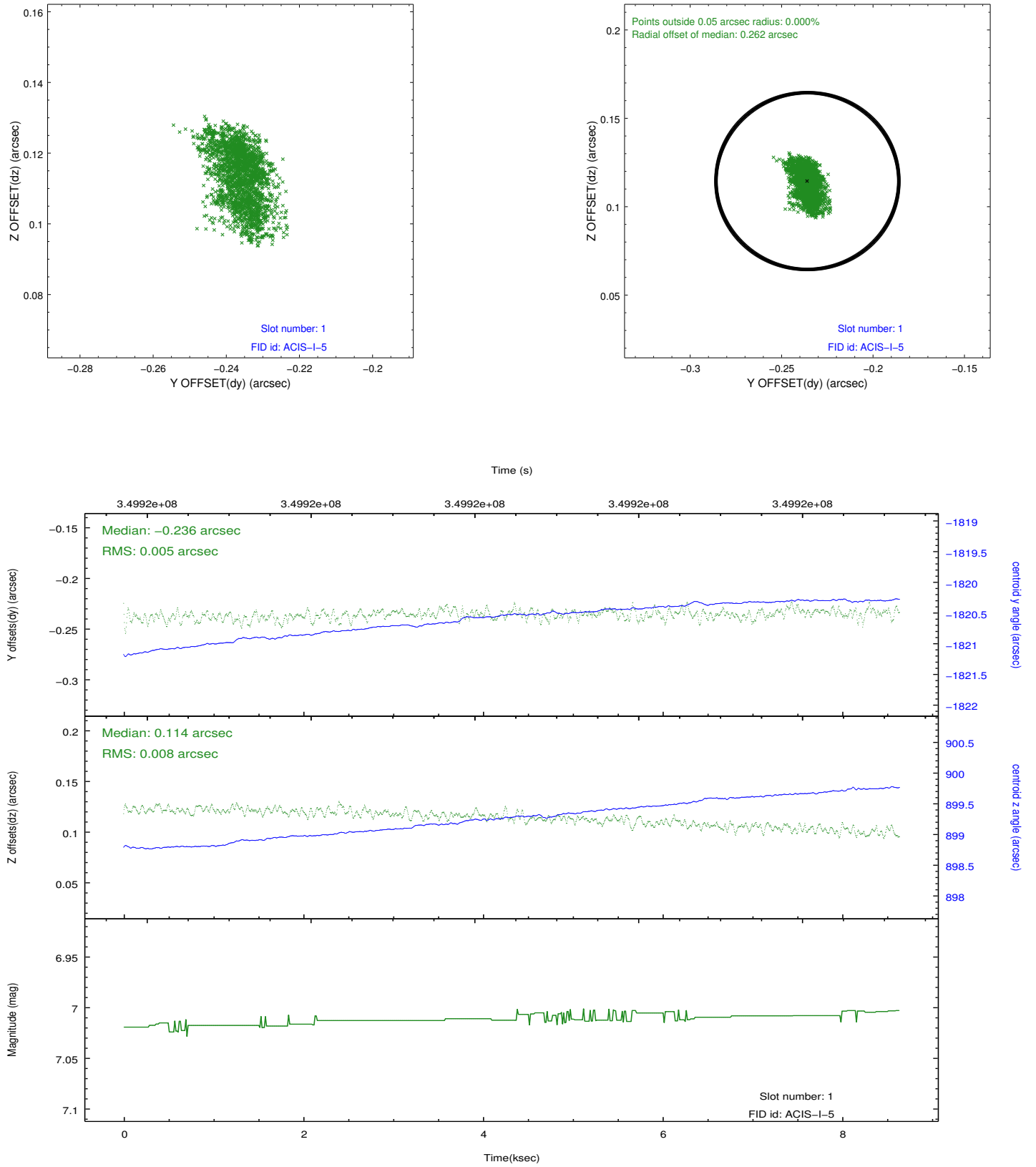


2.5 FID Slots

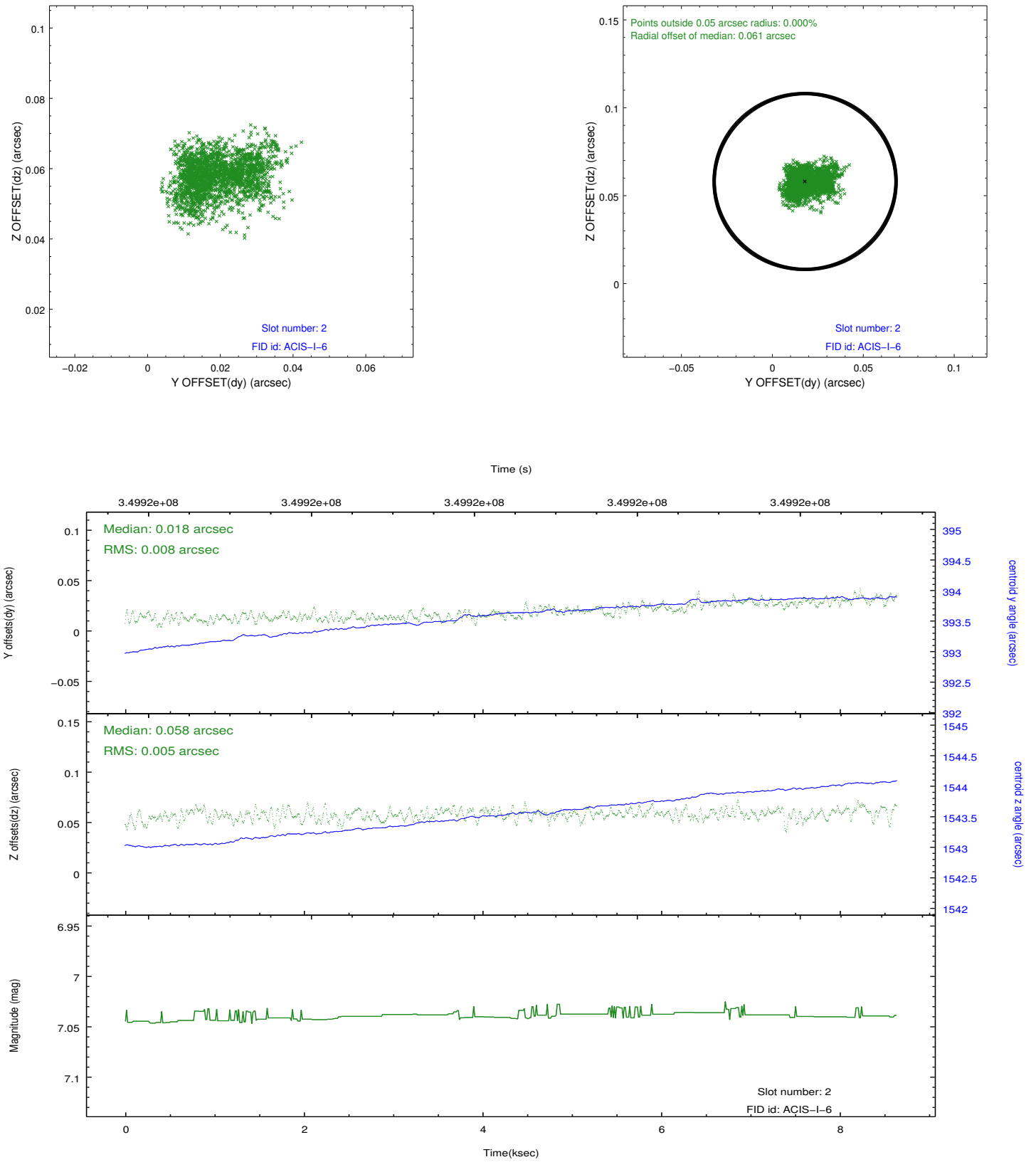
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.63350006

A.2 Comments