

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16226 - L2 Version 1
Chandra X-Ray Center

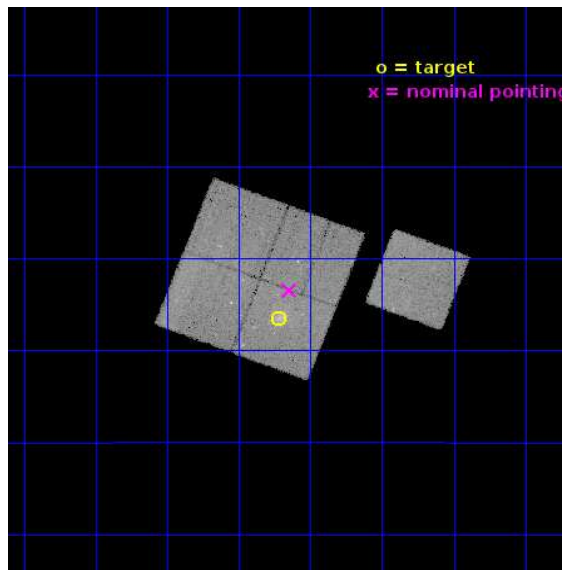
L2 Processing Date : Aug 12 2014

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1 Front

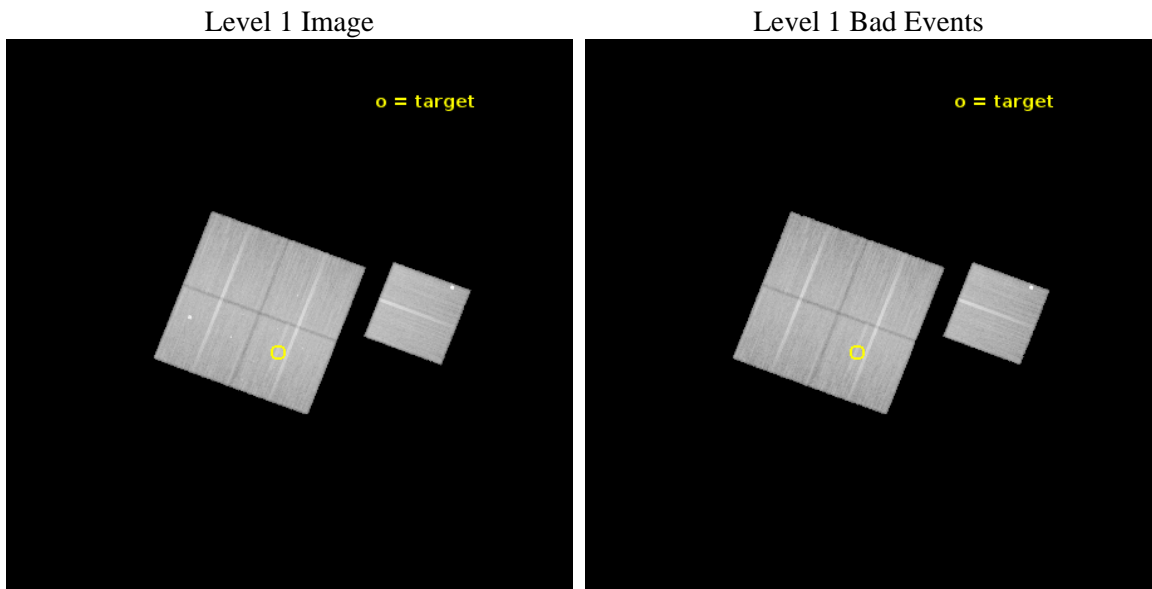
seq_num	801410	Sequence number
obs_id	16226	Observation id
title	Chandra Observations of a Complete Sample of SZE Clusters from ACT	
observer	Prof. John Hughes	Principal investigator
object	ACT-CL J0022-0036	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.554167	Observer's specified target RA [deg]
dec_targ	-0.609389	Observer's specified target Dec [deg]
ra_nom	5.5365107816392	Nominal RA [deg]
dec_nom	-0.55782459442242	Nominal Dec [deg]
roll_nom	110.89620459087	Nominal Roll [deg]
revision	1	Processing version of data
ontime	65577.277353406	Sum of GTIs [s]
livetime	64720.461947494	Livetime [s]
ontime0	65586.700504422	Sum of GTIs [s]
ontime1	65580.41839385	Sum of GTIs [s]
ontime2	65583.559464216	Sum of GTIs [s]
ontime3	65577.277353406	Sum of GTIs [s]
ontime6	65586.700504422	Sum of GTIs [s]
l2events	163239	Number of level 2 events



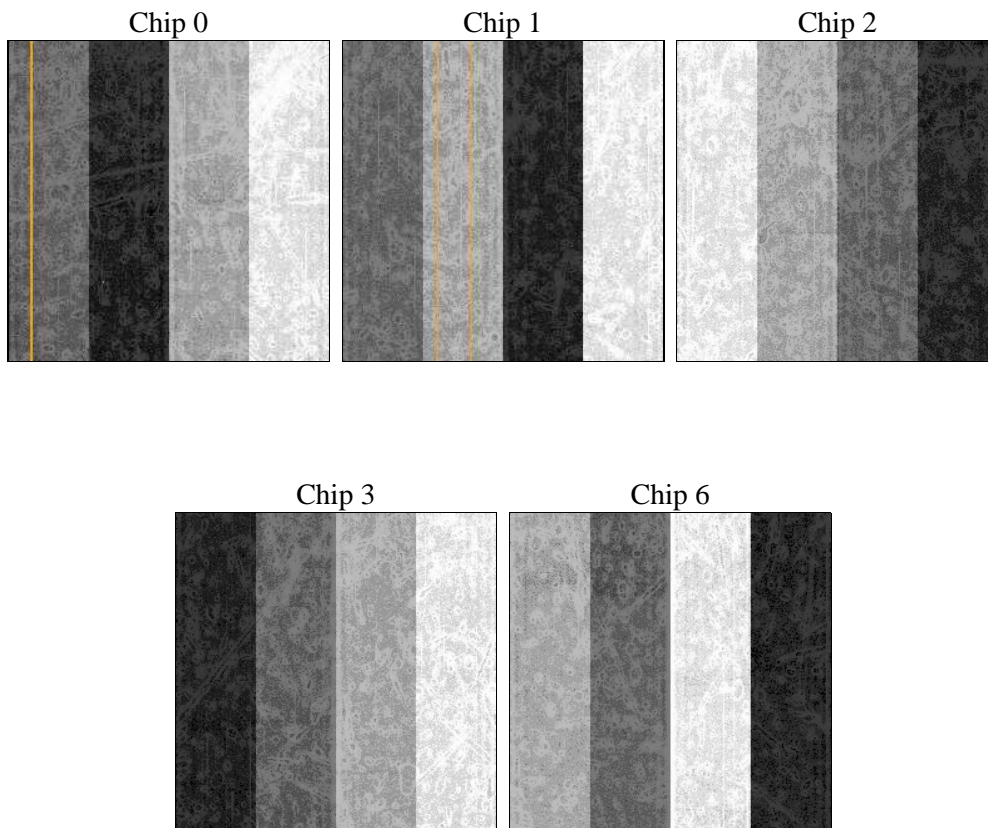
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	65502.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	65577.277353406	Sum of GTIs [s]
caldsver	4.6.2	 	ontime0	65586.700504422	Sum of GTIs [s]
date	2014-08-12T19:56:37	Date and time of file creation	ontime1	65580.41839385	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	65583.559464216	Sum of GTIs [s]
			ontime3	65577.277353406	Sum of GTIs [s]
			ontime6	65586.700504422	Sum of GTIs [s]
			l1events	1551551	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	293579	306670	313638	313645	324019
rejected events	255876	261495	277572	274939	286107
rejected %	87%	85%	88%	87%	88%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12679	18110	12576	14834	12359
	4%	5%	4%	4%	3%
grade 1 events	157	152	184	221	5493
	0%	0%	0%	0%	1%
grade 2 events	9388	9871	8952	8244	8746
	3%	3%	2%	2%	2%
grade 3 events	3918	3956	3655	3943	3896
	1%	1%	1%	1%	1%
grade 4 events	3767	4074	3708	4000	3934
	1%	1%	1%	1%	1%
grade 5 events	15719	16296	15048	17364	16449
	5%	5%	4%	5%	5%
grade 6 events	7953	9165	7177	7687	8982
	2%	2%	2%	2%	2%
grade 7 events	239998	245046	262338	257352	264160
	81%	79%	83%	82%	81%

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	5.557987	5.536510781639166	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.575160	-0.5578245944224162	CCD I3 on	Y	Y
[deg] Pointing Roll	110.687728	110.8962045908659	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	-225.792463	-225.7829997647864	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.8	-7.809453238143249	CCD S4 on	N	N
[s] Observation start time (MET)	524165971.184000	524164192.95592	CCD S5 on	N	N
Observation start date	2014-08-11T17:38:24	2014-08-11T17:09:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	524231473.184000	524232105.35969	On-chip summing requested	N	N
Observation end date	2014-08-12T11:50:06	2014-08-12T12:01:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

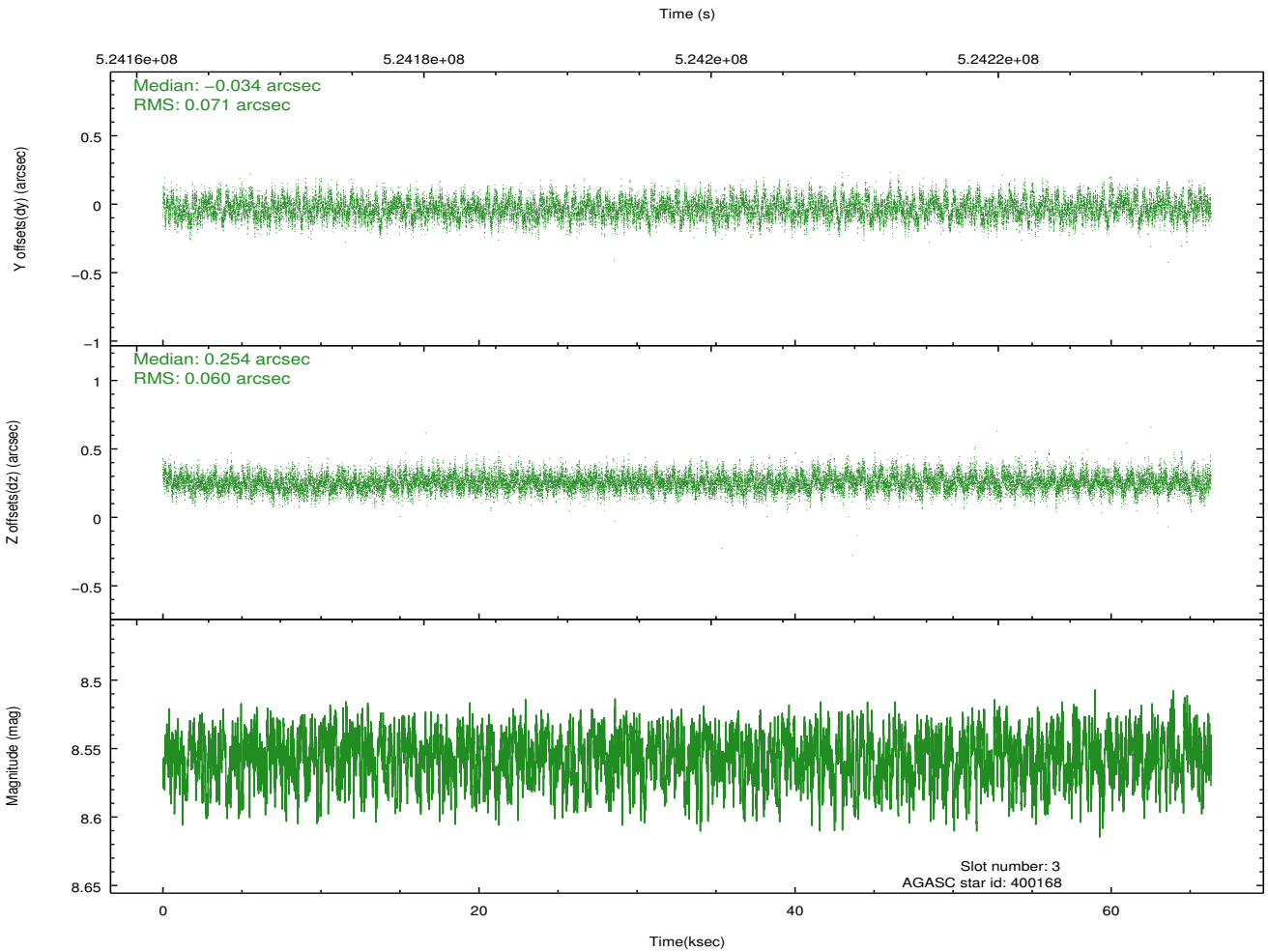
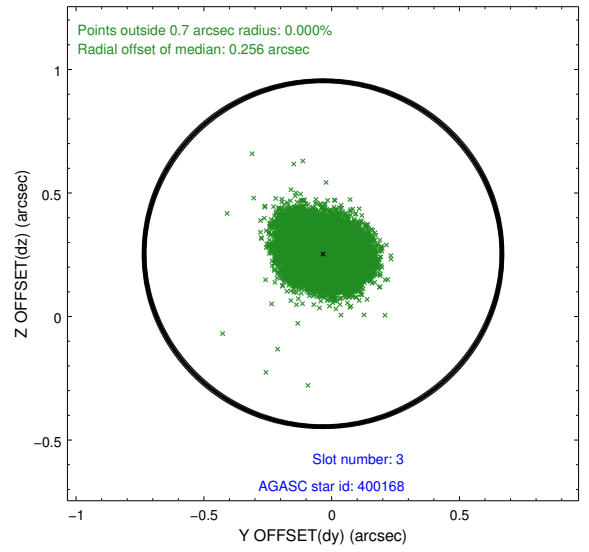
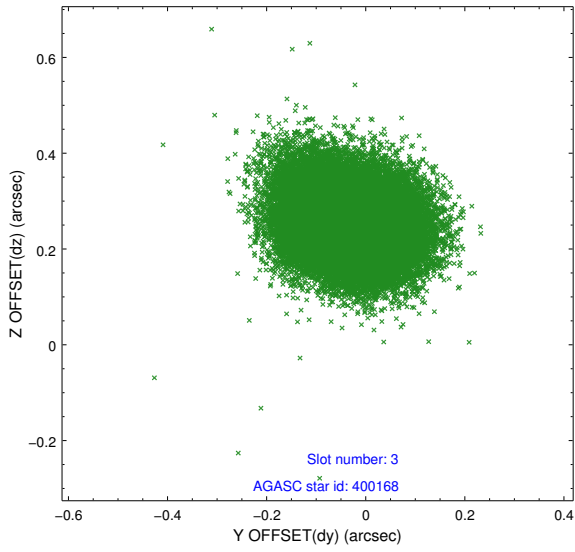
2.3 Aspect

Slot Statistics

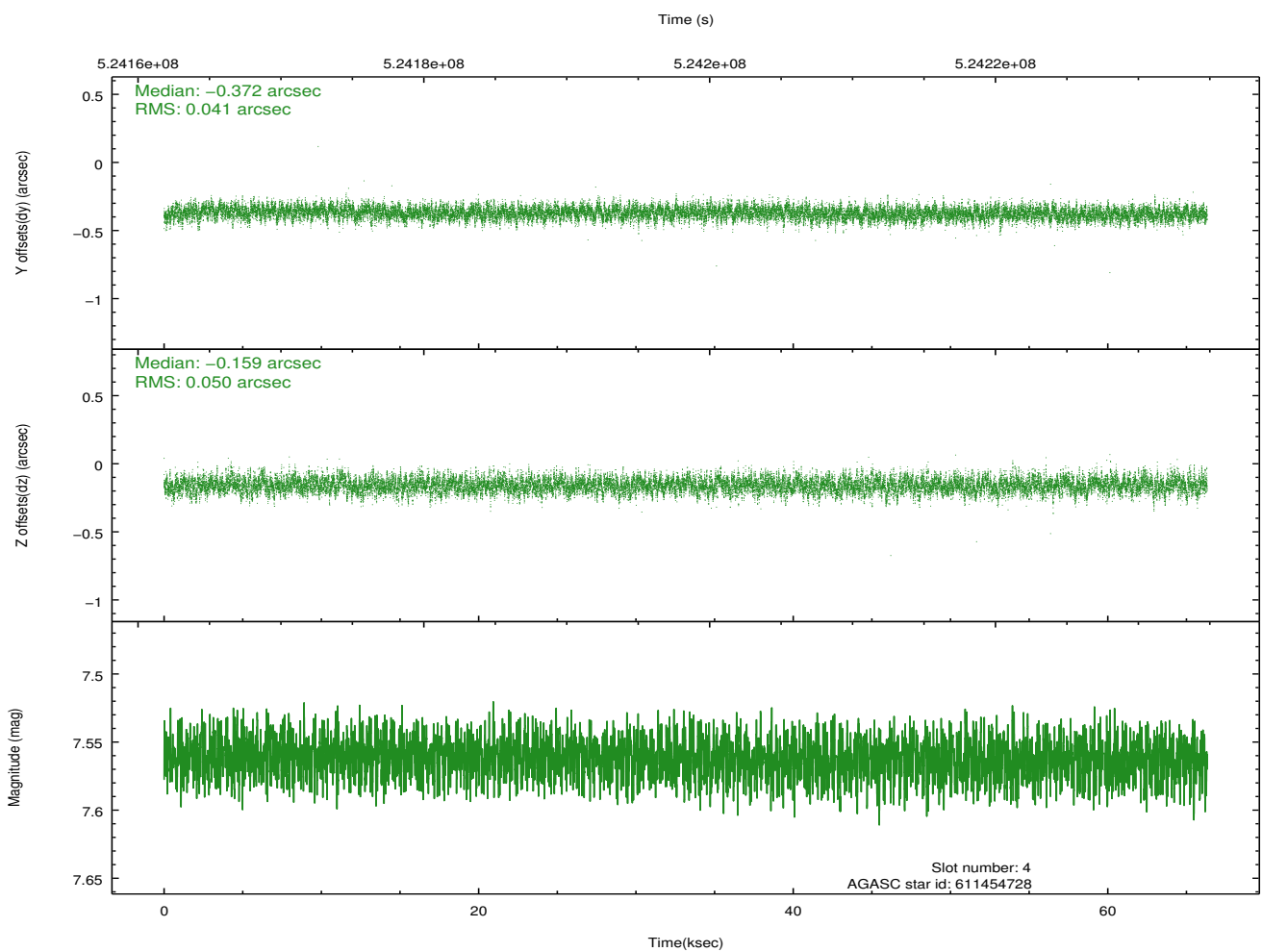
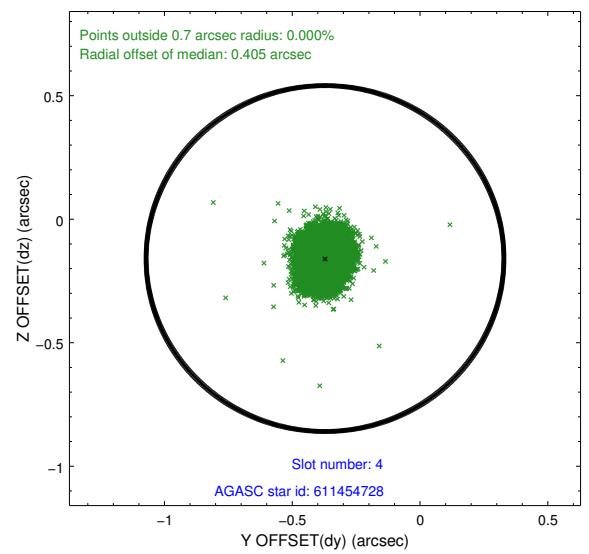
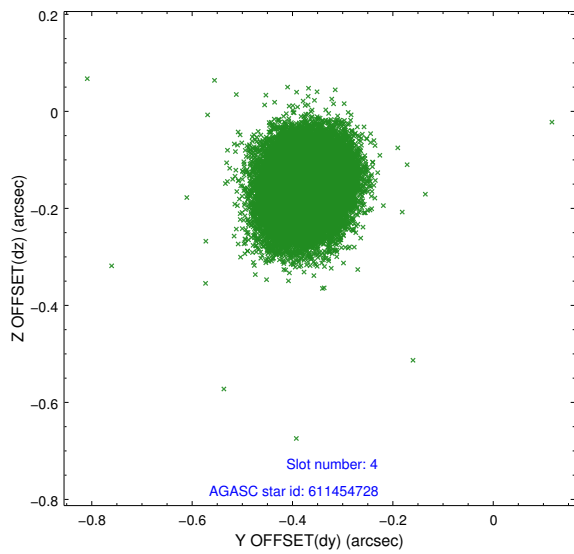
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.15	16175	0.168	-0.133	0.023	0.031	0.000000	0.000000	924.58	-999.93
1	FID	ACIS-I-5	7.13	16176	-0.326	0.128	0.013	0.021	0.000000	0.000000	-1824.08	897.79
2	FID	ACIS-I-6	7.15	16176	0.066	0.073	0.018	0.026	0.000000	0.000000	390.04	1542.22
3	GUIDE	400168	8.56	32345	-0.034	0.254	0.099	0.161	5.954771	0.121905	1843.50	-2222.31
4	GUIDE	611454728	7.56	32344	-0.372	-0.159	0.068	0.112	5.463672	-0.004442	2042.06	-408.06
5	GUIDE	611455432	8.51	32339	0.290	0.174	0.106	0.168	5.918378	-0.541387	-344.05	-1256.35
6	GUIDE	611455848	9.21	32335	0.258	0.064	0.098	0.157	5.558330	-0.945971	-1249.30	471.04
7	GUIDE	611328992	9.32	32322	-0.138	-0.335	0.111	0.179	4.933778	-0.546119	891.43	2064.55

2.4 Star Slots

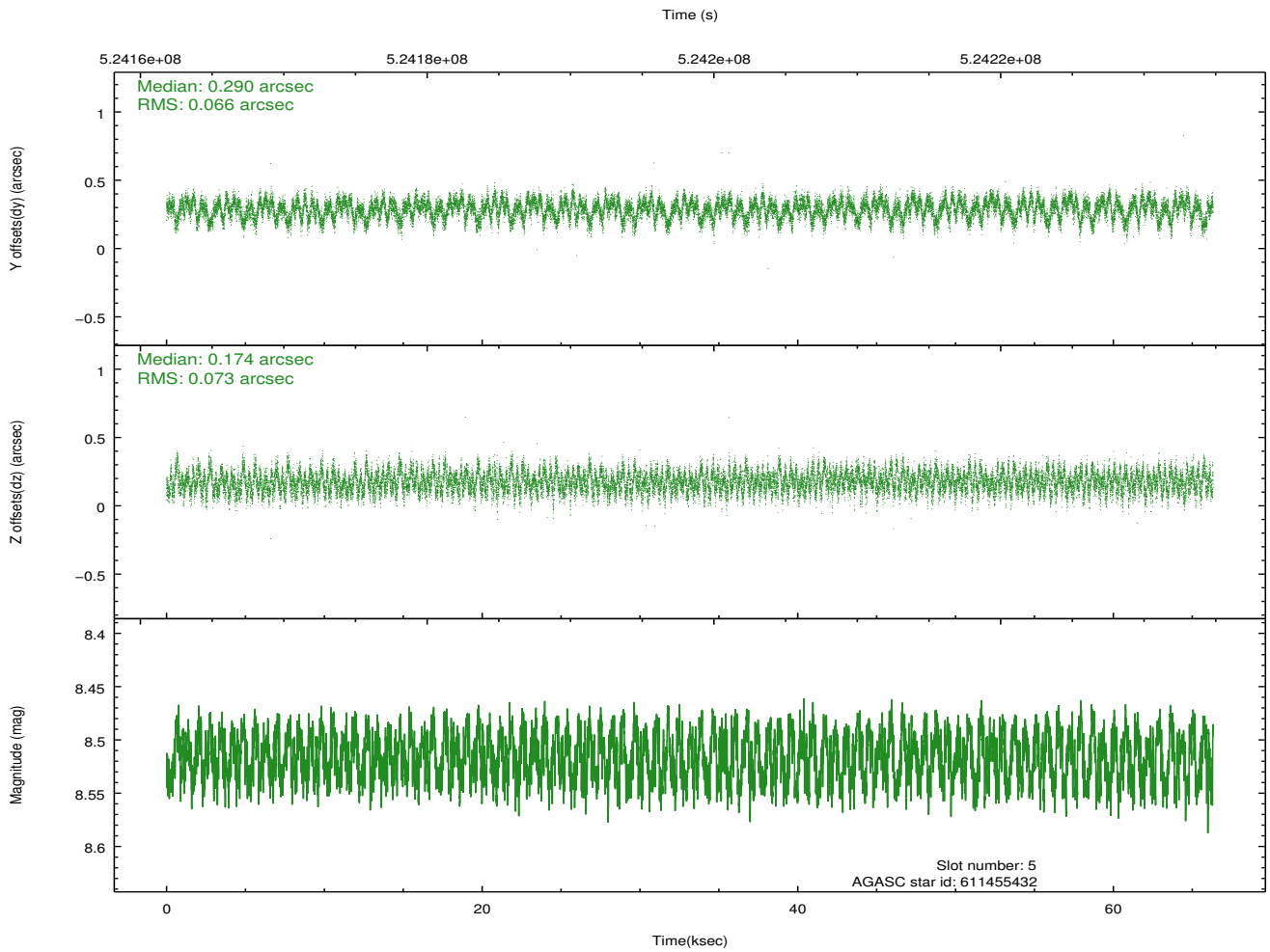
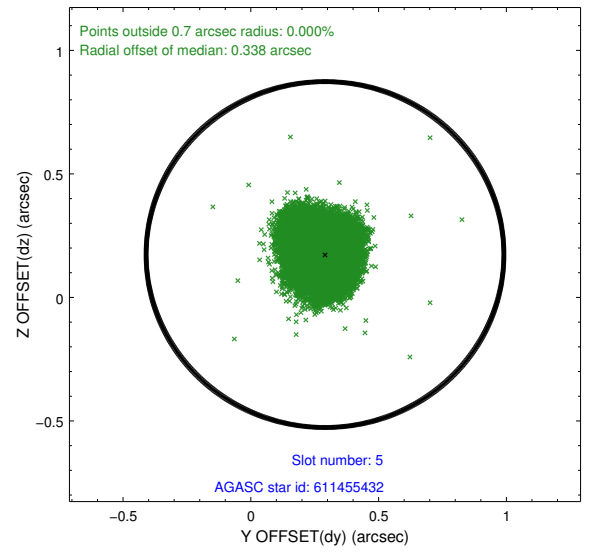
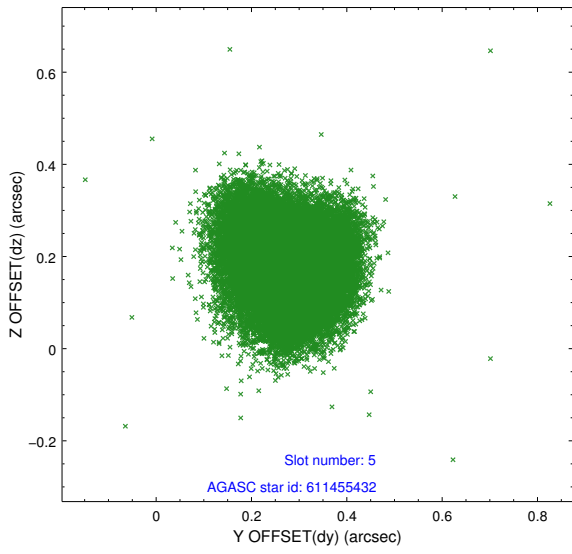
2.4.1 Slot 3



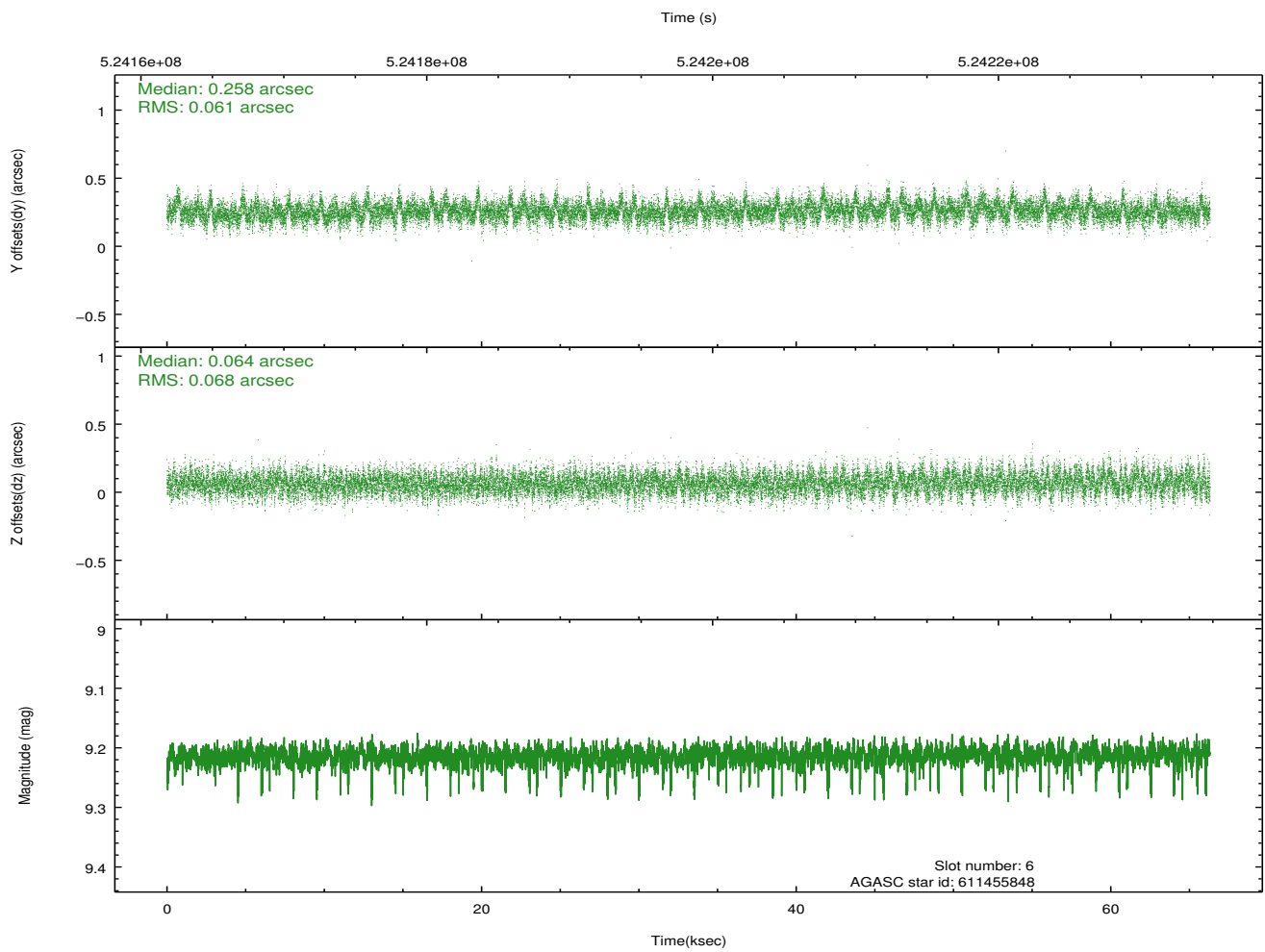
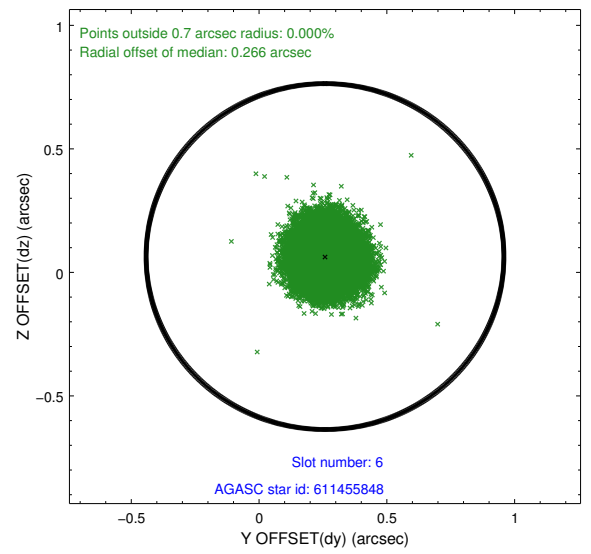
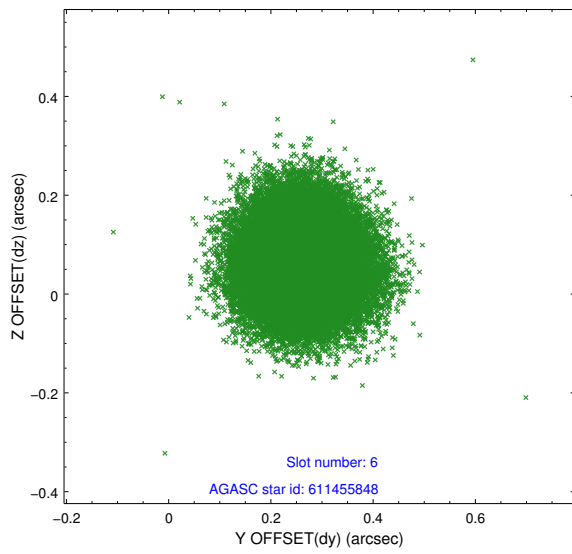
2.4.2 Slot 4



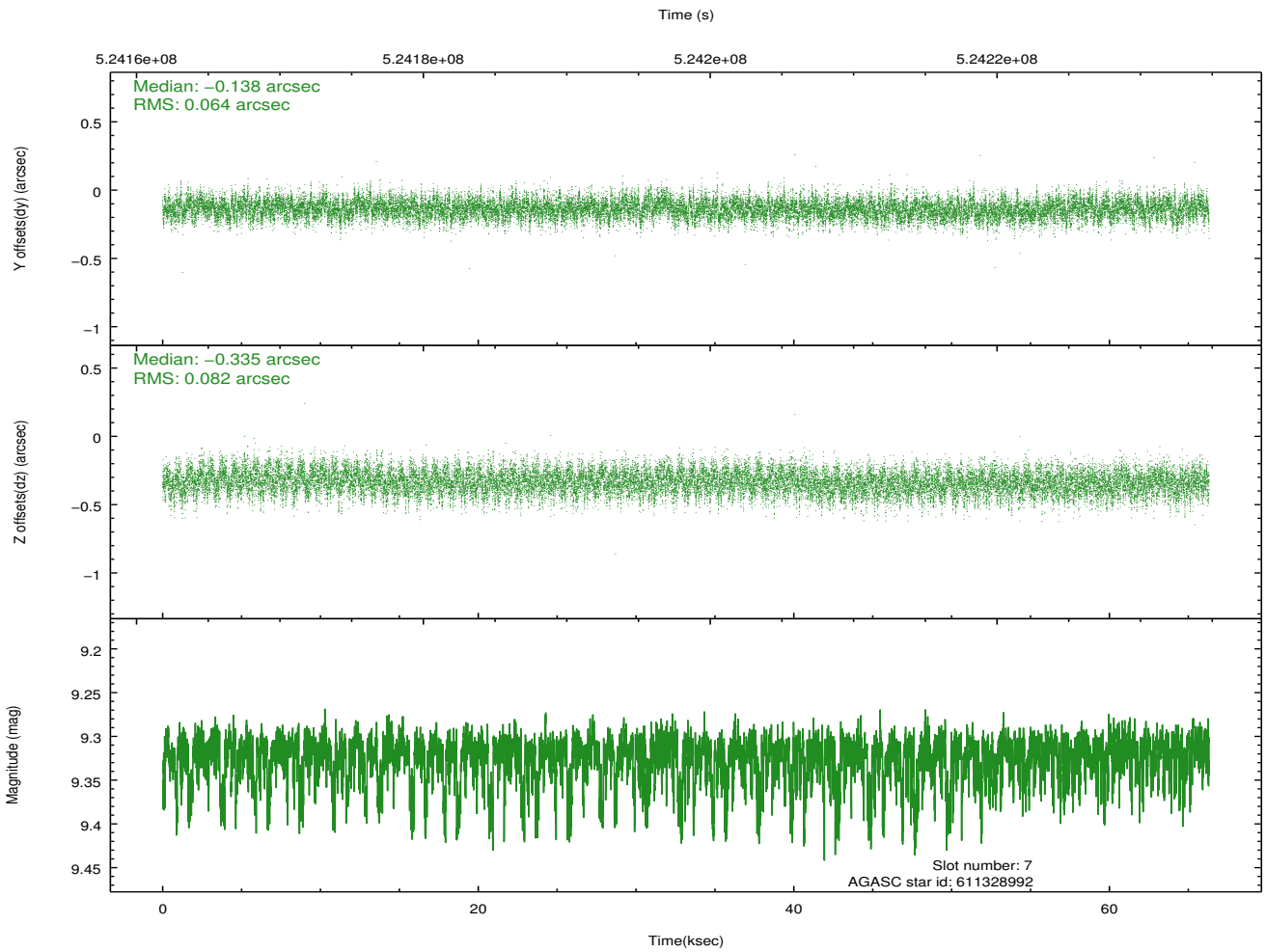
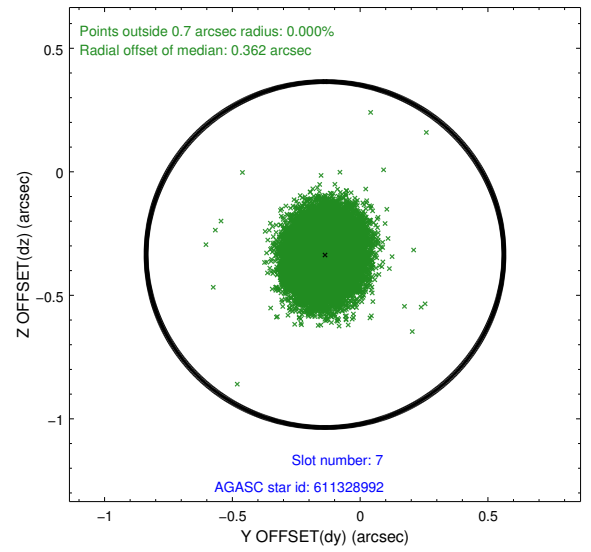
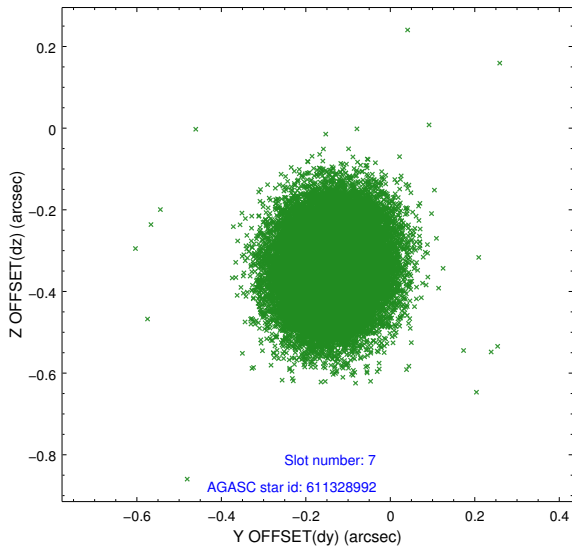
2.4.3 Slot 5



2.4.4 Slot 6

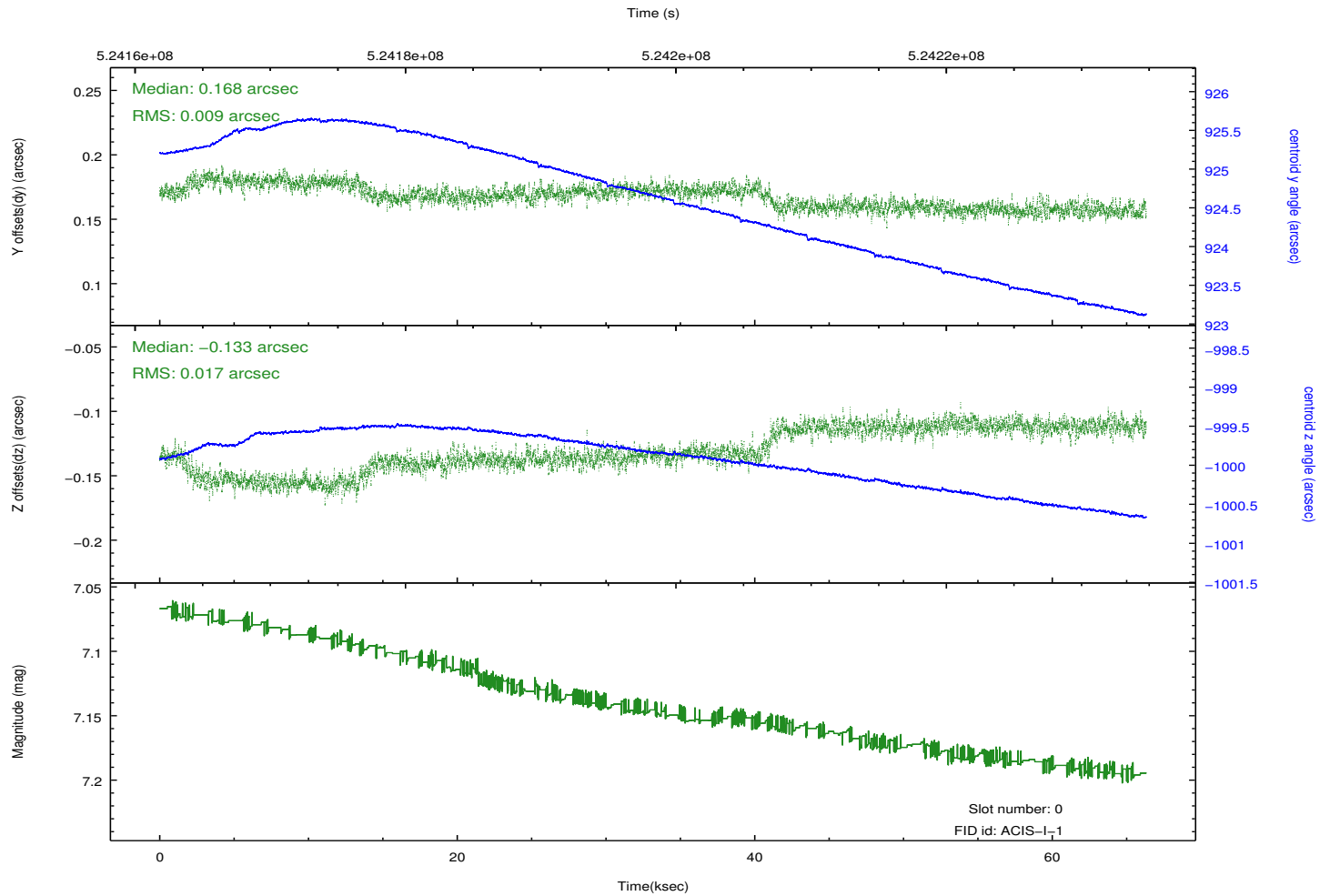
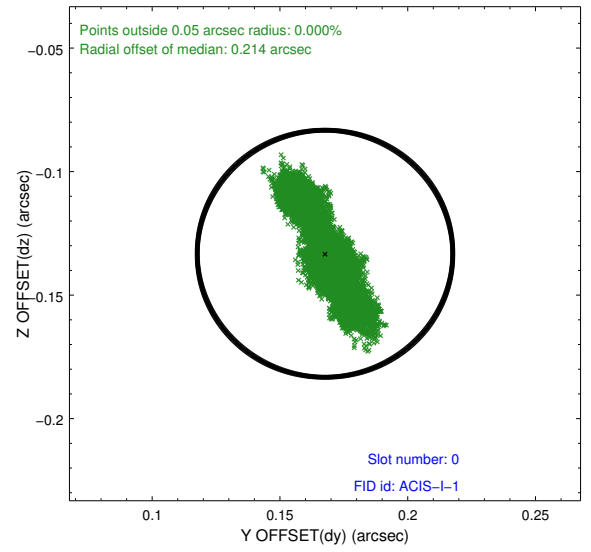
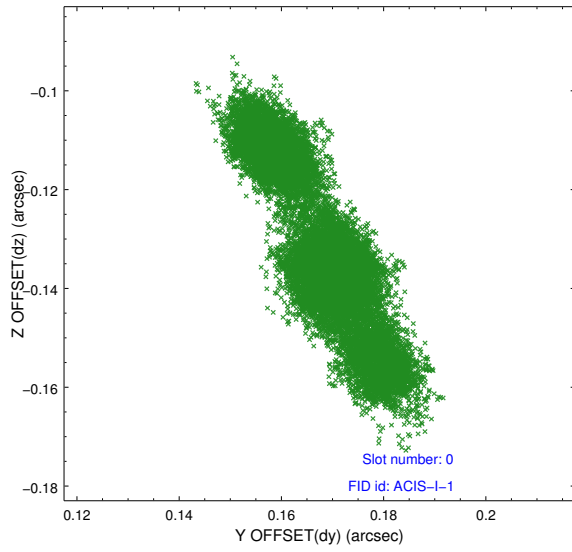


2.4.5 Slot 7

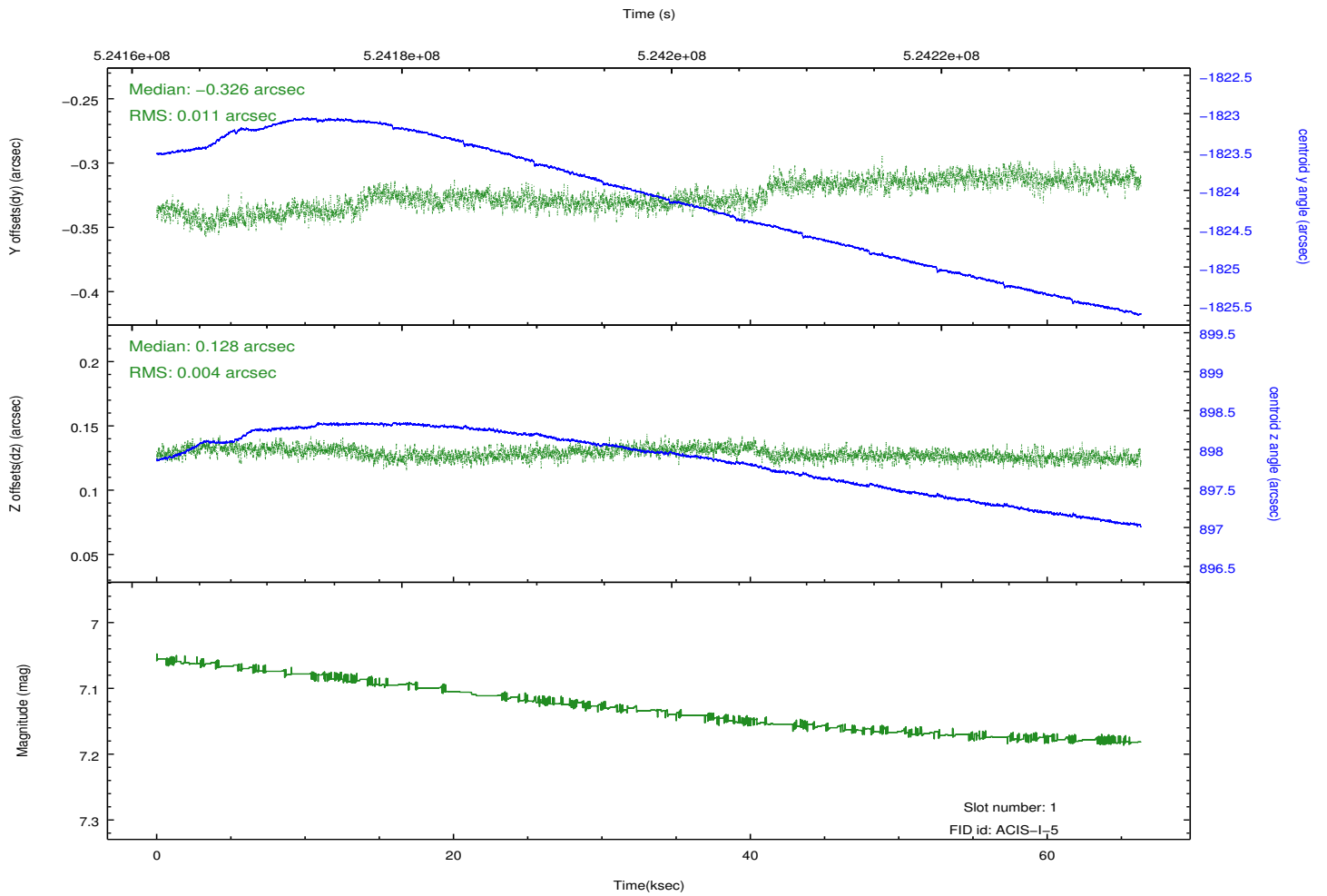
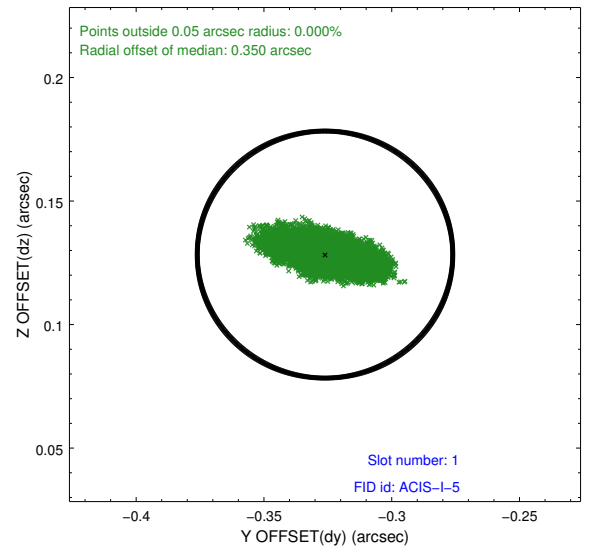
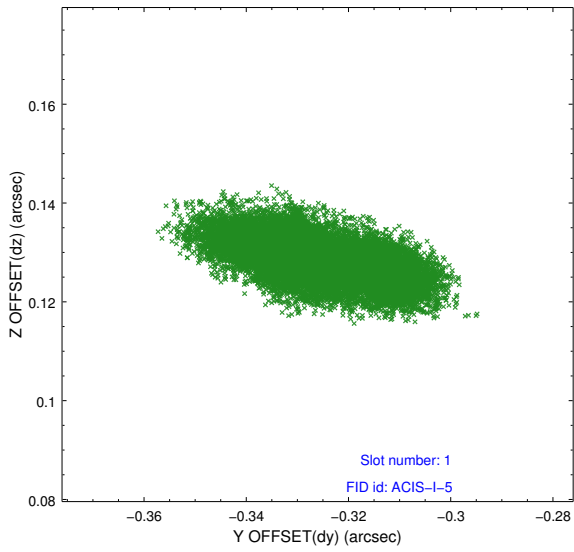


2.5 FID Slots

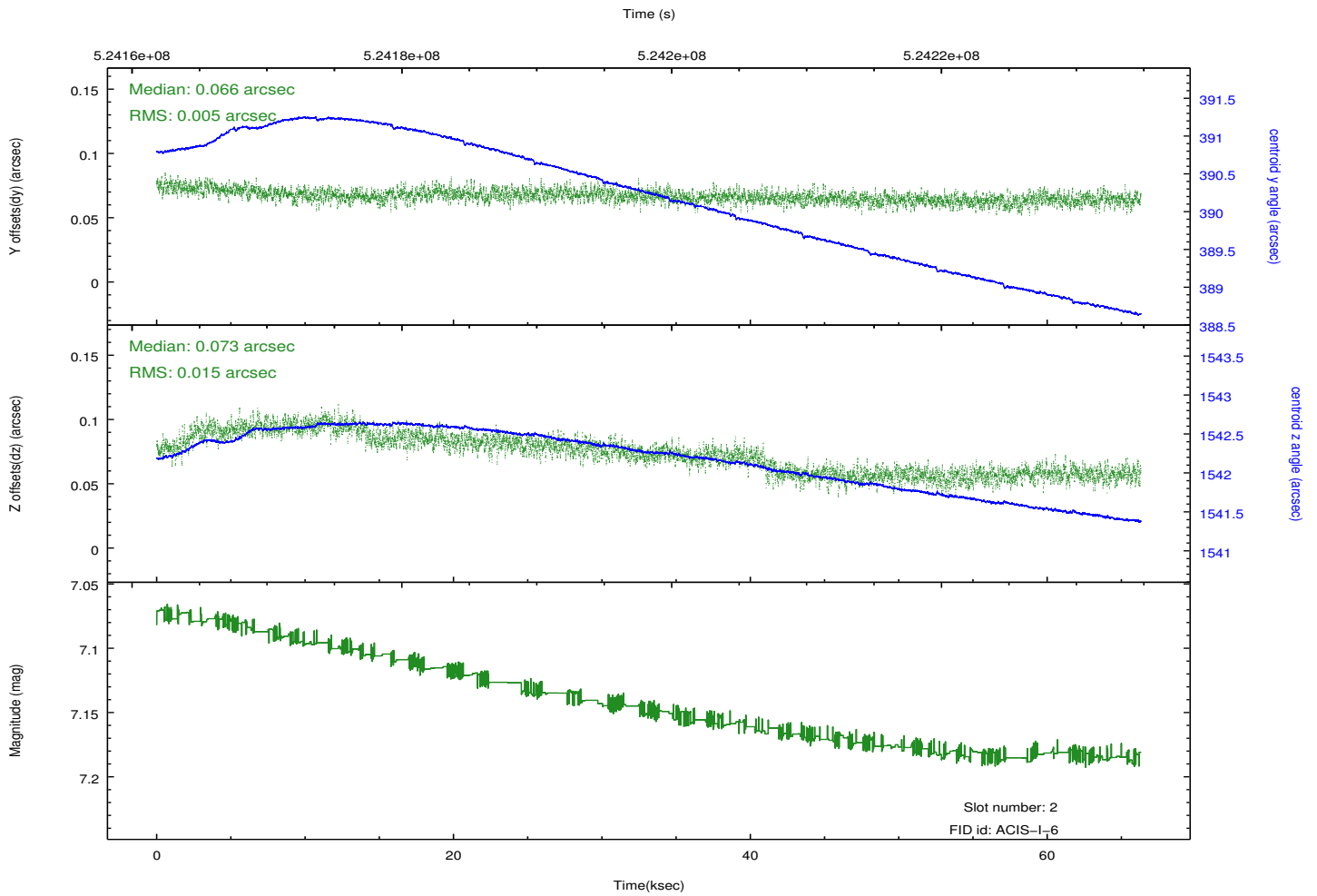
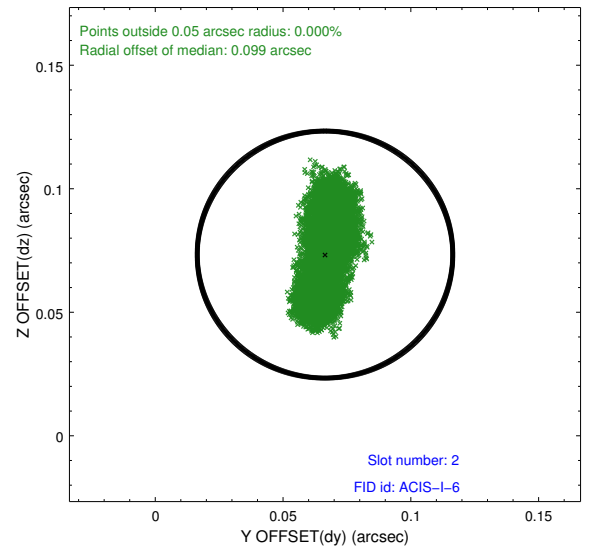
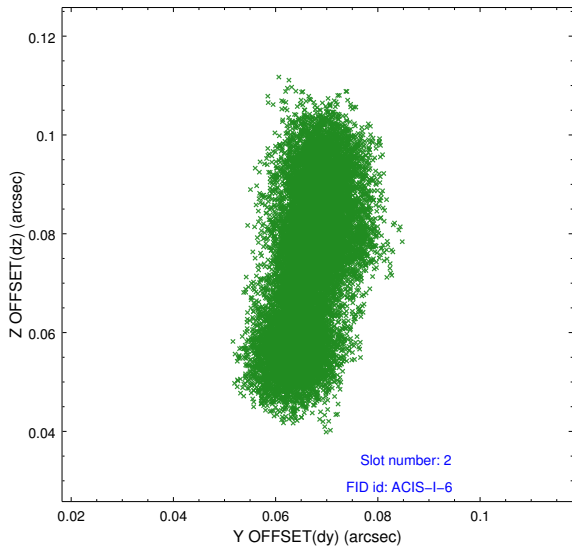
2.5.1 Slot 0



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)	2014.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	65.577277353406

A.2 Comments