

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16100 - L2 Version 1
Chandra X-Ray Center

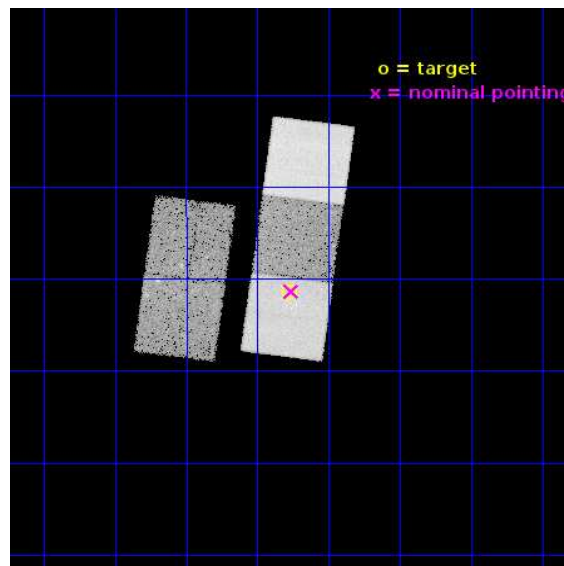
L2 Processing Date : Sep 2 2014

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1 Front

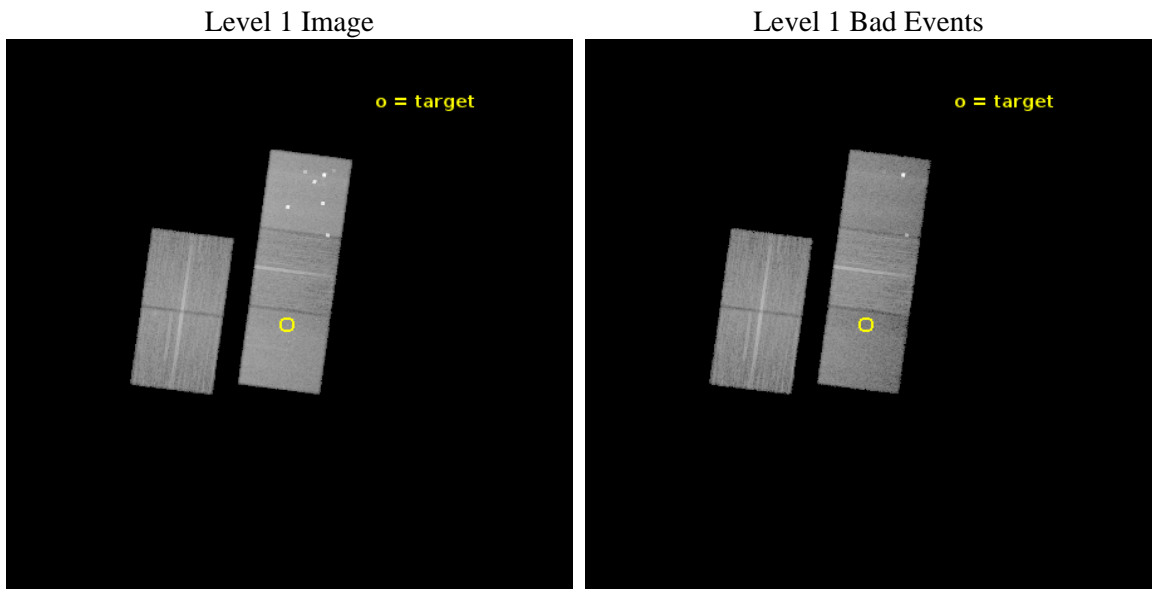
seq_num	702988	Sequence number
obs_id	16100	Observation id
title	Studying AGN evolution with ionization echoes	Proposal title
observer	Dr. Mischa Schirmer	Principal investigator
object	J002016.4-053126	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.068333	Observer's specified target RA [deg]
dec_targ	-5.523889	Observer's specified target Dec [deg]
ra_nom	5.065505399882	Nominal RA [deg]
dec_nom	-5.5225382670332	Nominal Dec [deg]
roll_nom	97.603979726732	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27366.800210476	Sum of GTIs [s]
livetime	27009.232818581	Livetime [s]
ontime2	27366.800210476	Sum of GTIs [s]
ontime3	27363.659160137	Sum of GTIs [s]
ontime5	27366.800210476	Sum of GTIs [s]
ontime6	27363.65914011	Sum of GTIs [s]
ontime7	27366.800210476	Sum of GTIs [s]
l2events	227203	Number of level 2 events



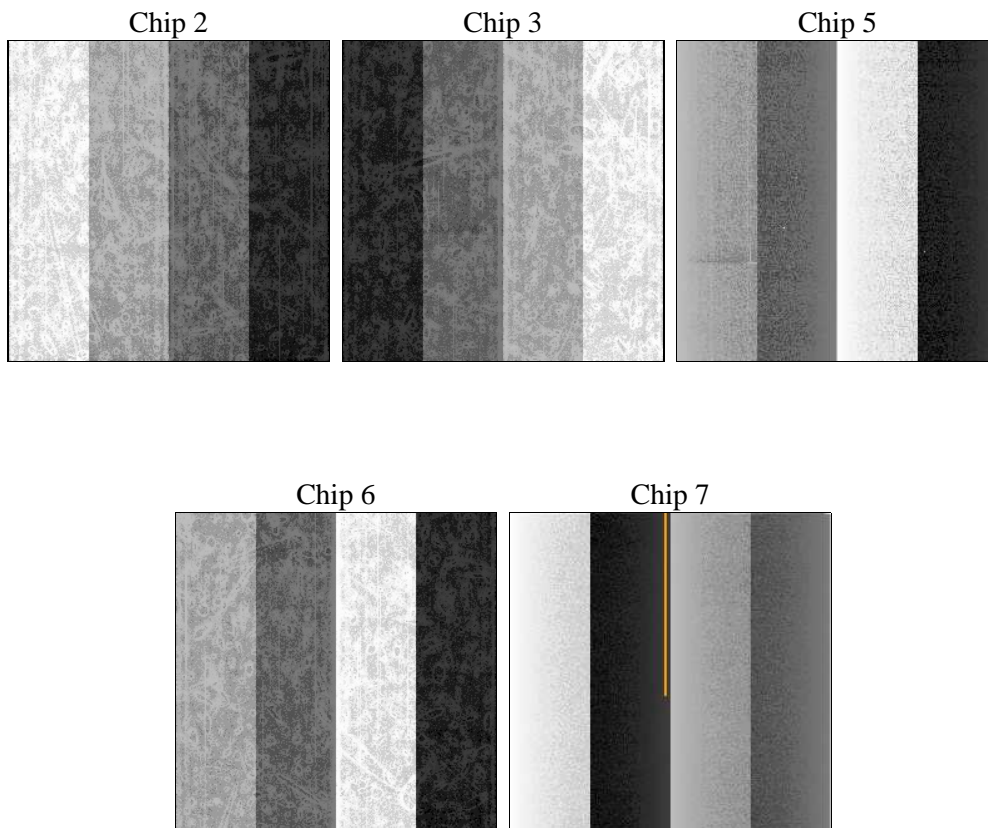
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27300.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	27366.800210476	Sum of GTIs [s]
caldbver	4.6.2	 	ontime2	27366.800210476	Sum of GTIs [s]
date	2014-09-02T16:19:02	Date and time of file creation	ontime3	27363.659160137	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	27366.800210476	Sum of GTIs [s]
			ontime6	27363.65914011	Sum of GTIs [s]
			ontime7	27366.800210476	Sum of GTIs [s]
			l1events	864217	Number of level 1 events

2.1.4 Events

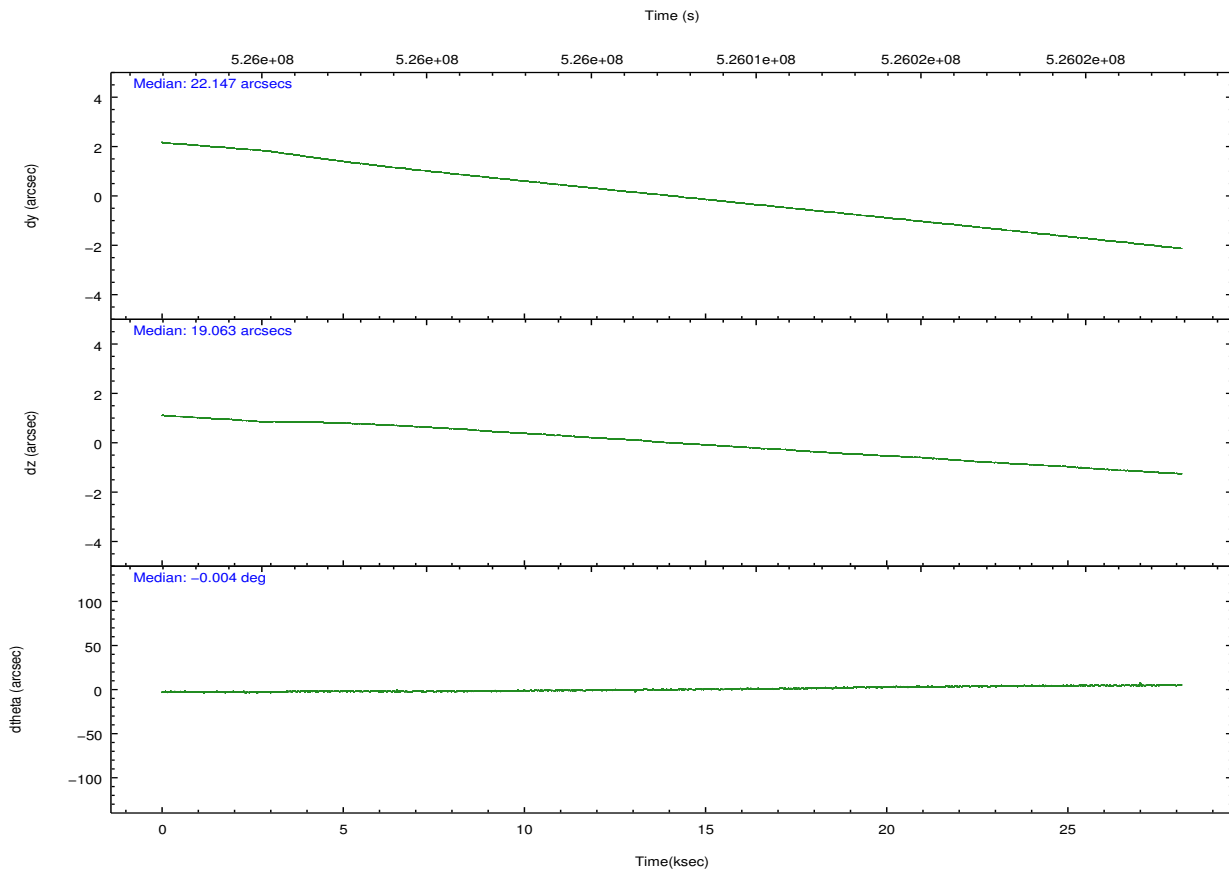
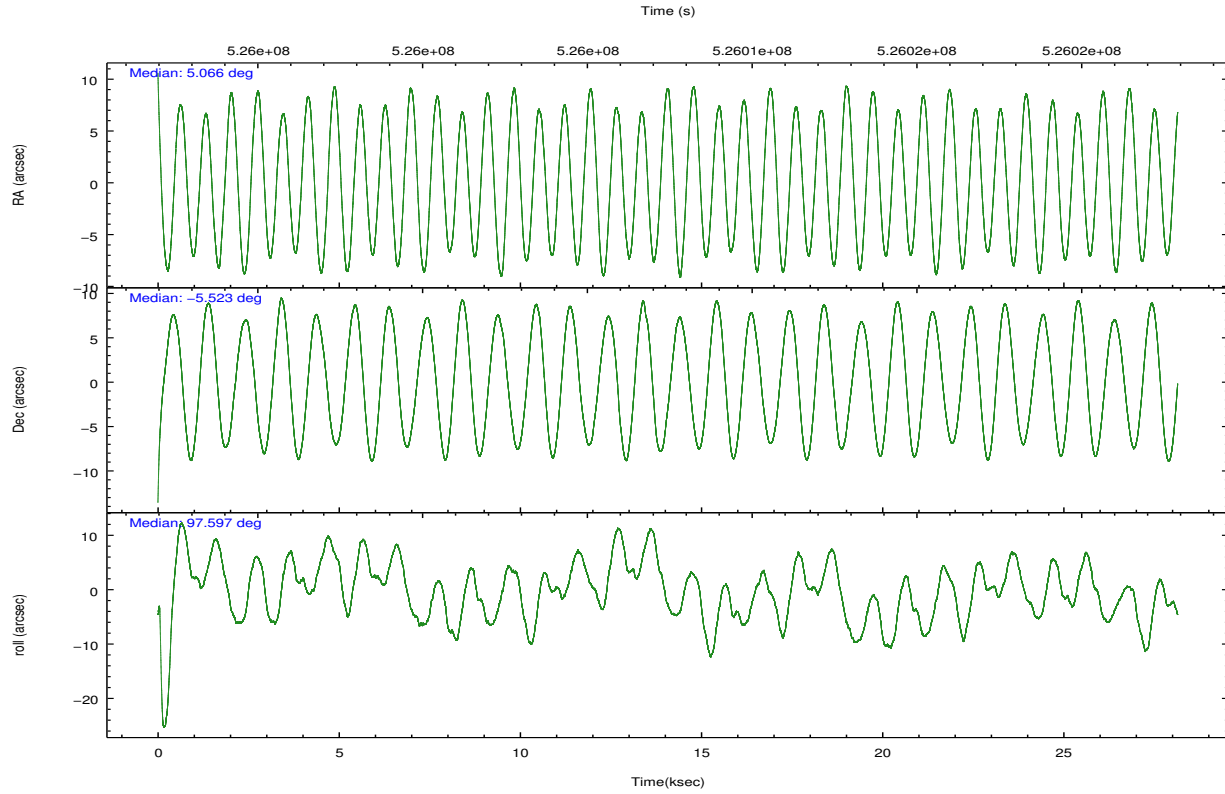
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	149585	147902	249531	149787	167412
rejected events	133131	131708	113333	132100	87236
rejected %	89%	89%	45%	88%	52%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	6260	6203	29800	6423	7809
	4%	4%	11%	4%	4%
grade 1 events	89	99	643	74	255
	0%	0%	0%	0%	0%
grade 2 events	3879	3377	37838	3973	17547
	2%	2%	15%	2%	10%
grade 3 events	1656	1692	4692	1781	7130
	1%	1%	1%	1%	4%
grade 4 events	1685	1704	4420	1797	6717
	1%	1%	1%	1%	4%
grade 5 events	5019	6202	18382	6018	17223
	3%	4%	7%	4%	10%
grade 6 events	2974	3221	59465	3714	40981
	1%	2%	23%	2%	24%
grade 7 events	128023	125404	94291	126007	69750
	85%	84%	37%	84%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	5.082630	5.065505399881975	CCD I2 on	O3	Y
[deg] Pointing Dec	-5.544043	-5.522538267033201	CCD I3 on	O2	Y
[deg] Pointing Roll	97.448991	97.60397972673242	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	525994218.184000	525991998.16976	CCD S5 on	N	N
Observation start date	2014-09-01T21:29:11	2014-09-01T20:53:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	526021518.184000	526022289.99644	On-chip summing requested	N	N
Observation end date	2014-09-02T05:04:11	2014-09-02T05:18:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect

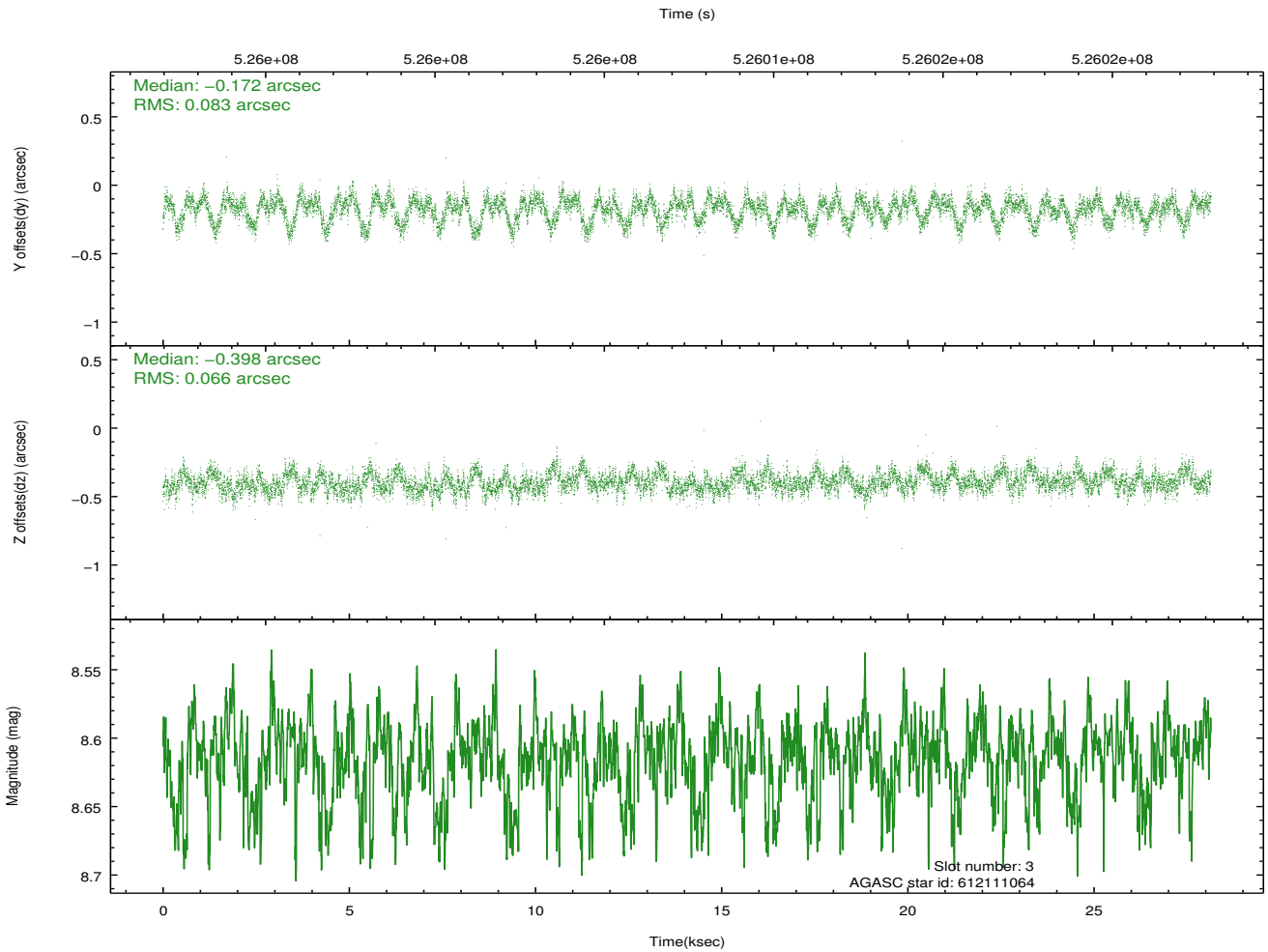
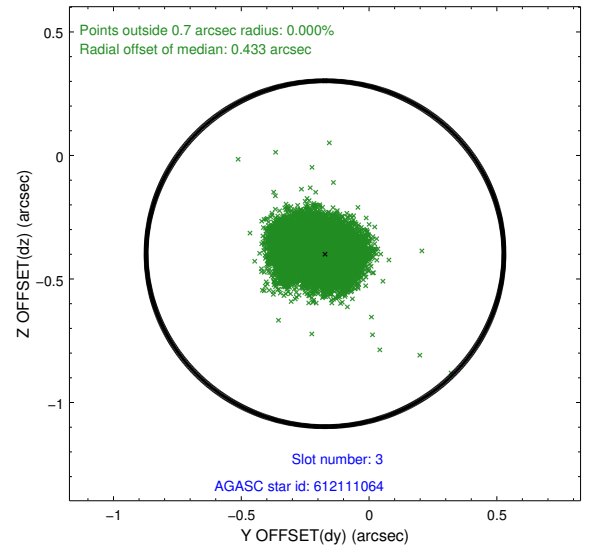
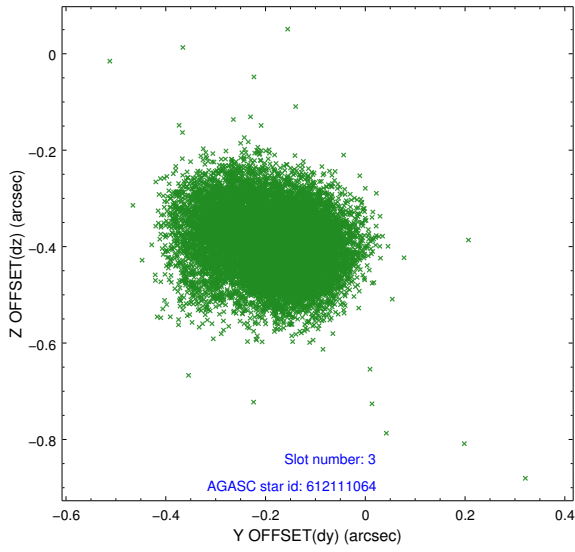


Slot Statistics

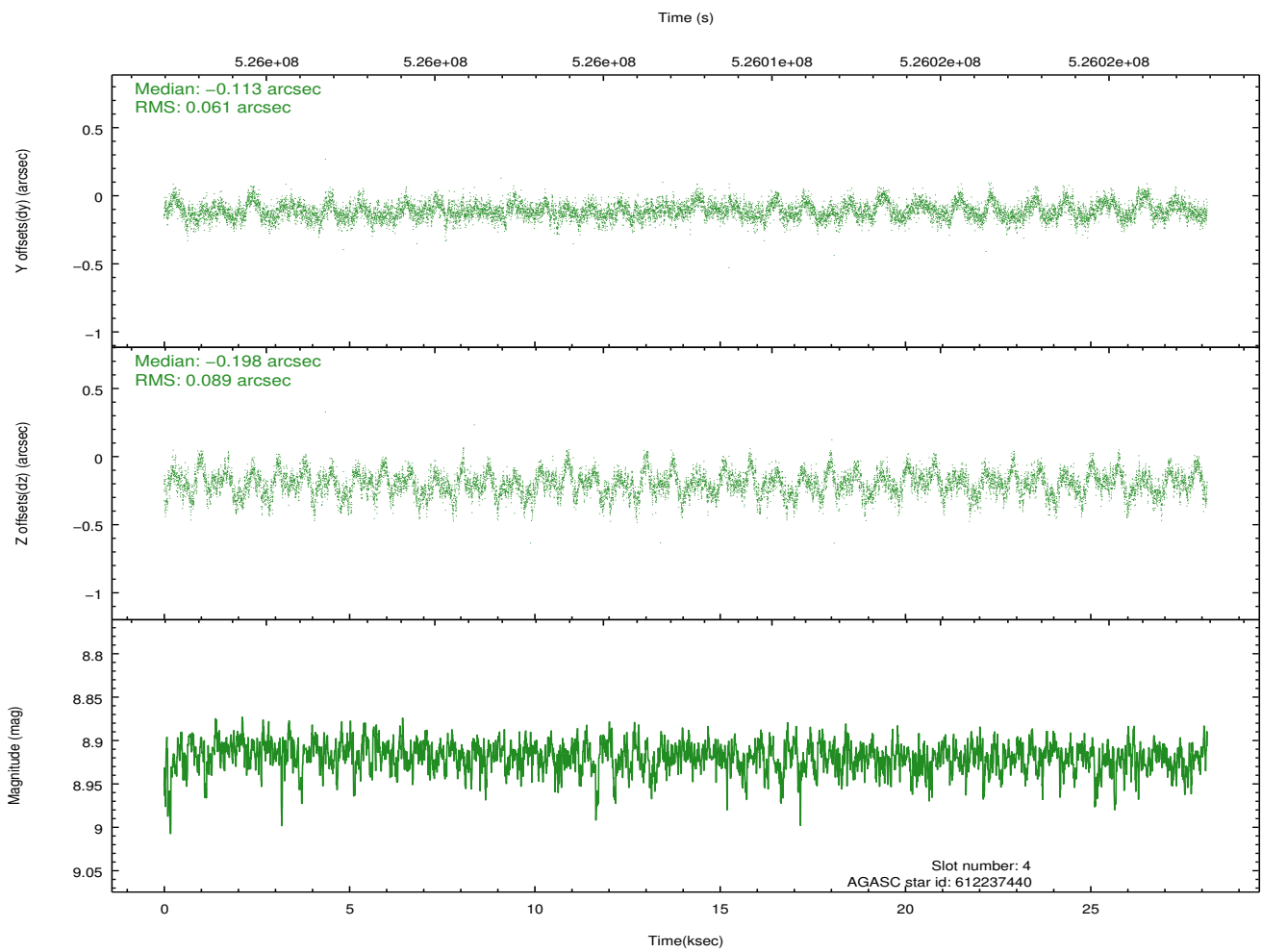
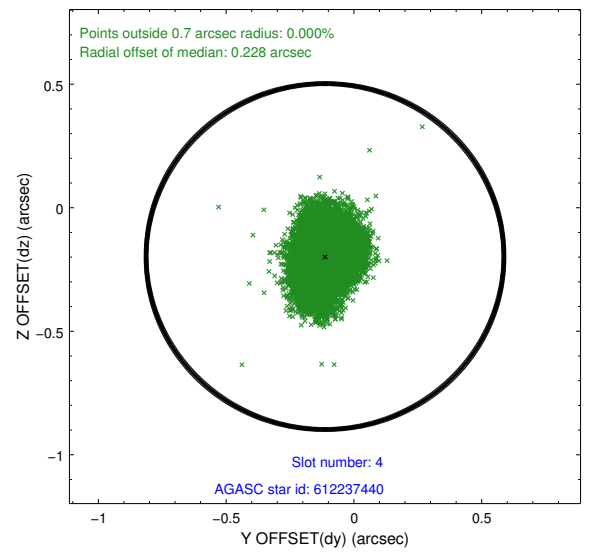
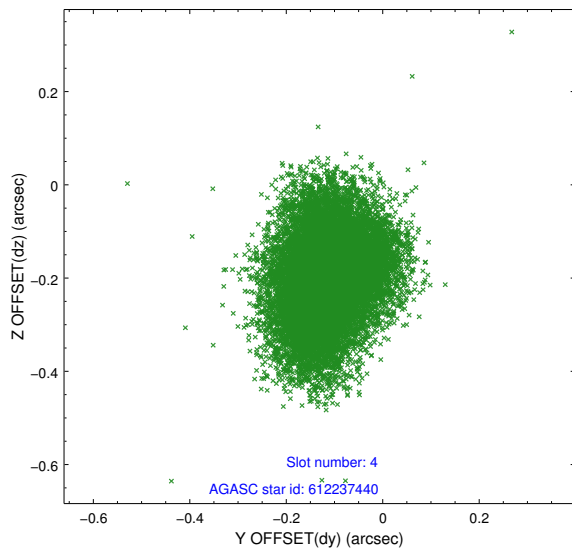
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.99	6865	-0.132	-0.048	0.024	0.064	0.000000	0.000000	-775.48	-1740.57
1	FID	ACIS-S-4	7.09	6865	0.296	0.079	0.044	0.098	0.000000	0.000000	2138.23	167.93
2	FID	ACIS-S-5	7.11	6866	-0.201	-0.018	0.034	0.059	0.000000	0.000000	-1828.26	161.61
3	GUIDE	612111064	8.61	13723	-0.172	-0.398	0.112	0.185	4.965298	-5.450541	388.34	373.31
4	GUIDE	612237440	8.92	13721	-0.113	-0.198	0.114	0.188	5.005484	-5.836168	-1006.70	410.29
5	GUIDE	612238488	9.75	13612	0.076	0.109	0.169	0.278	5.168980	-5.858227	-1161.25	-159.69
6	GUIDE	612238840	7.50	13725	-0.048	0.076	0.097	0.158	5.559326	-5.191933	1034.94	-1858.16
7	GUIDE	612243800	9.76	13478	0.281	0.427	0.204	0.326	5.757870	-5.889333	-1546.21	-2236.43

2.4 Star Slots

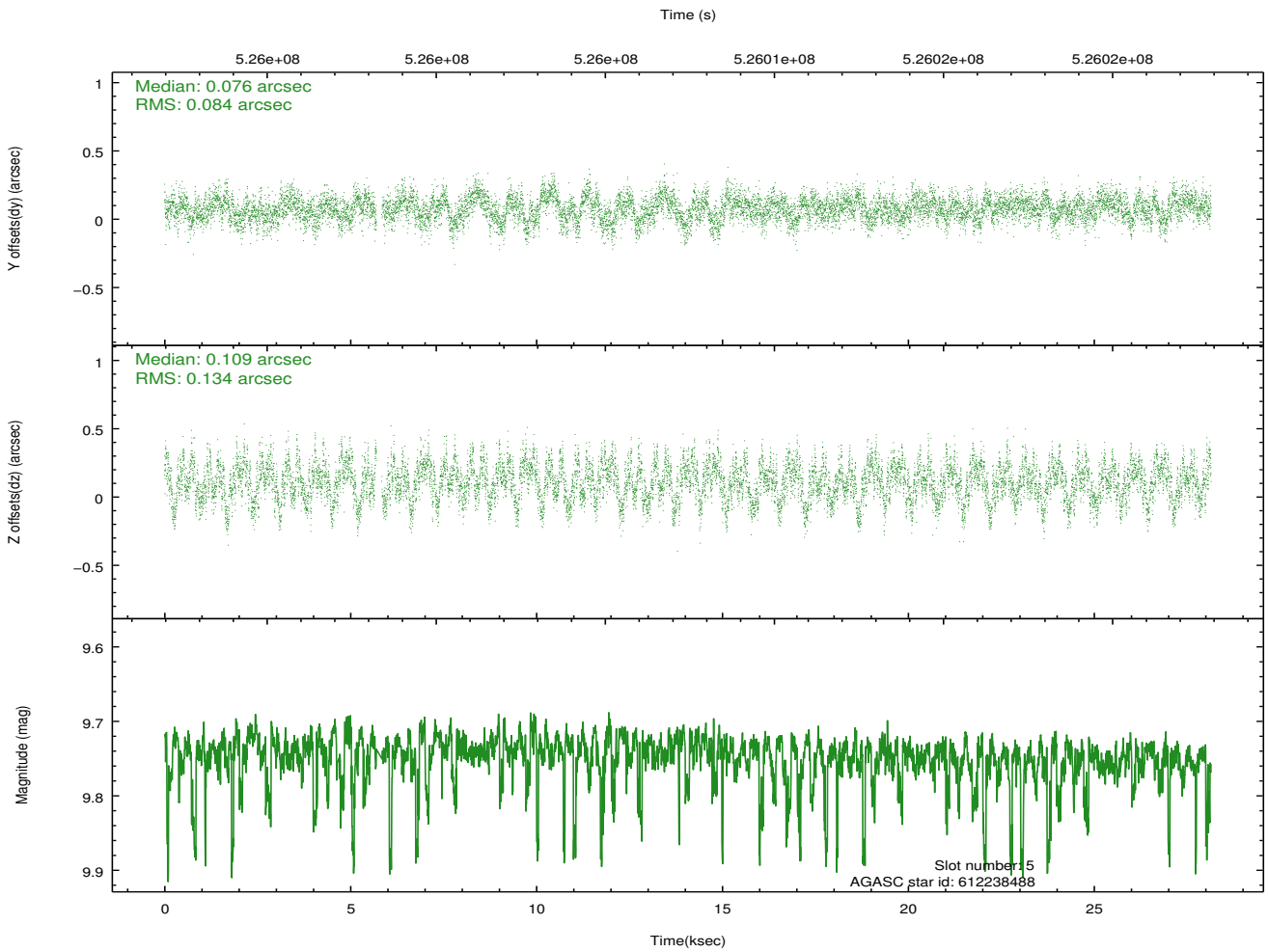
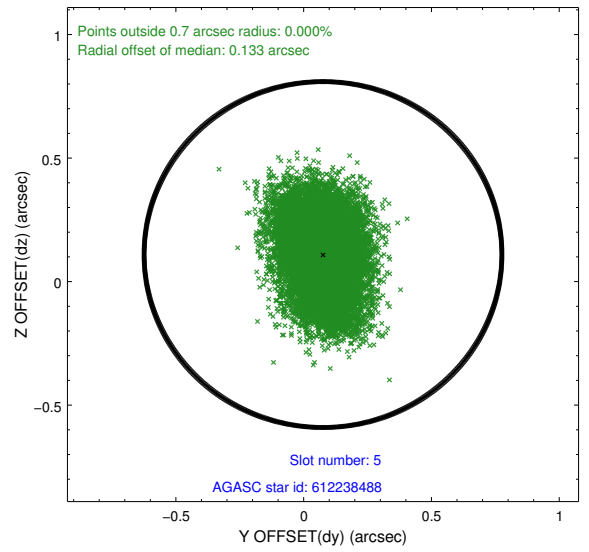
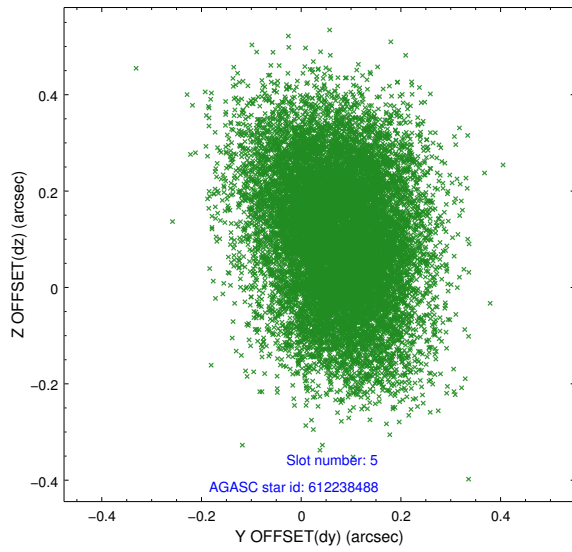
2.4.1 Slot 3



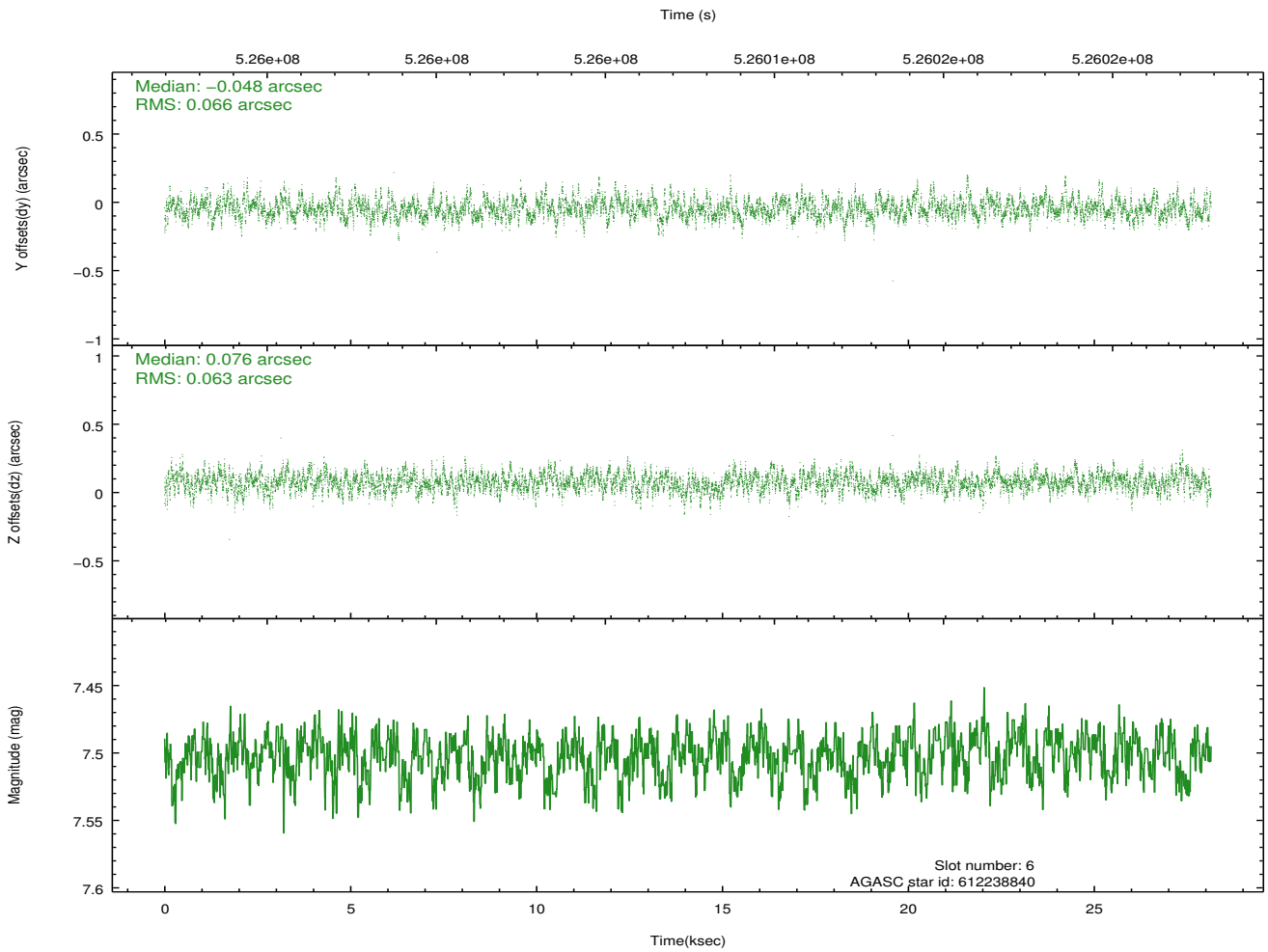
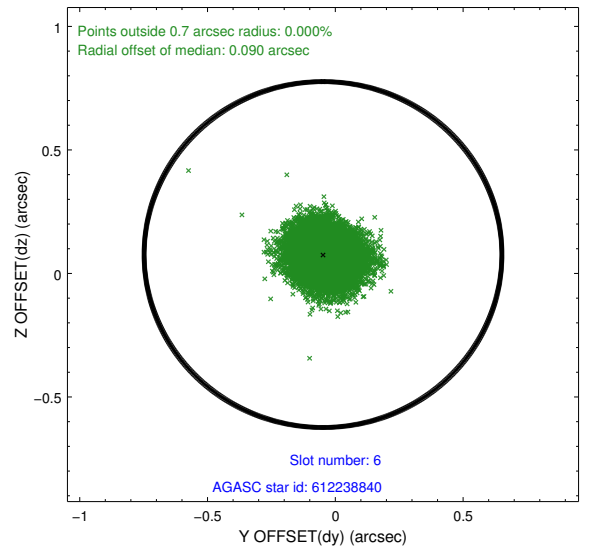
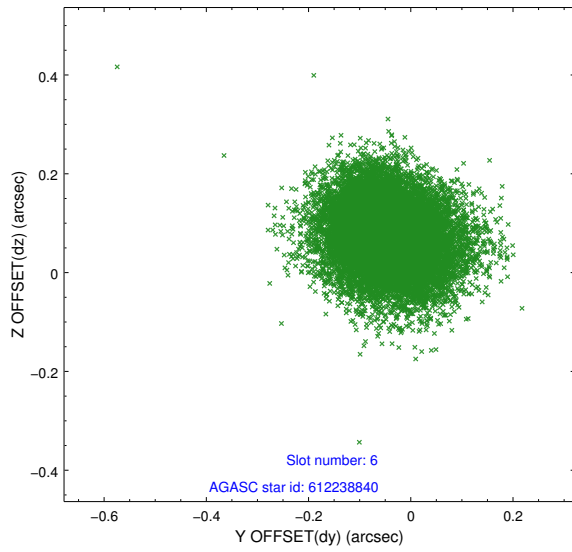
2.4.2 Slot 4



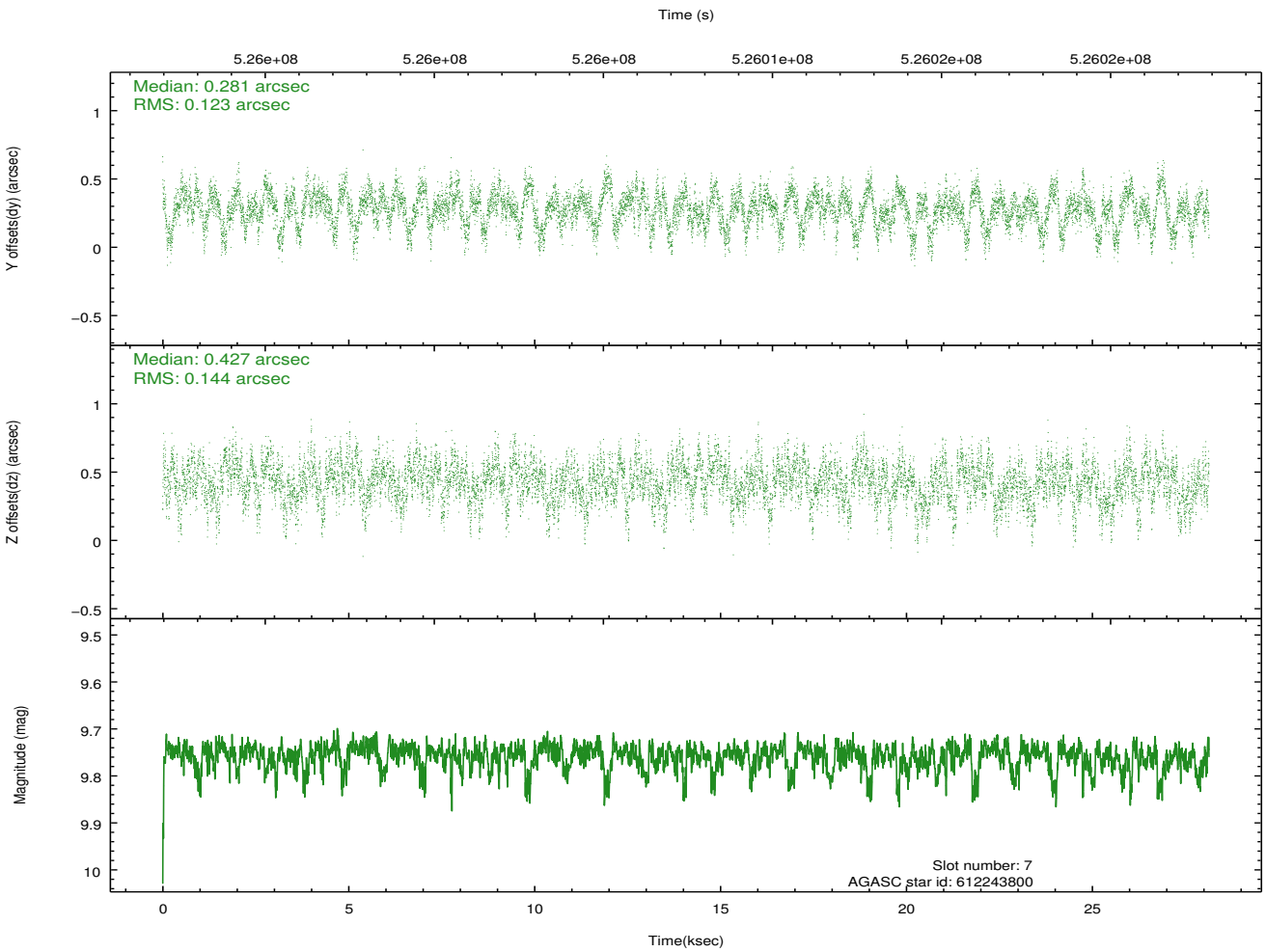
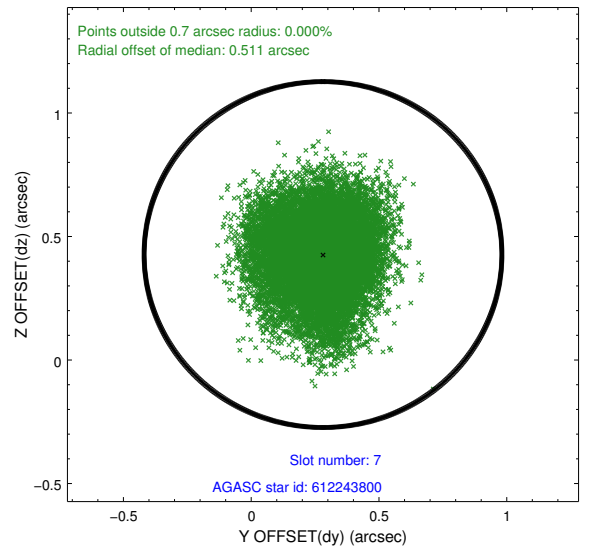
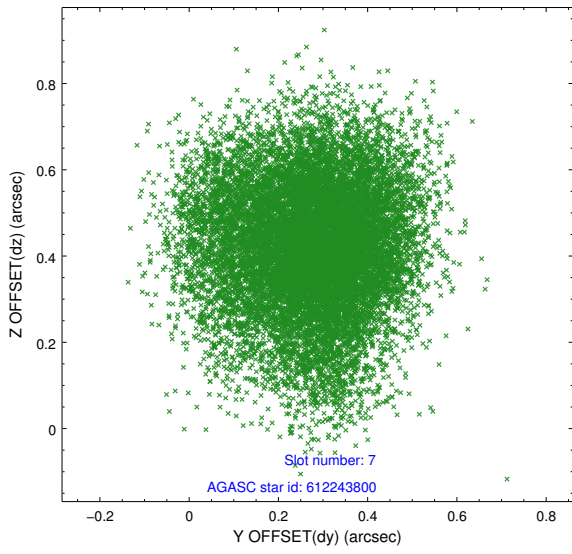
2.4.3 Slot 5



2.4.4 Slot 6

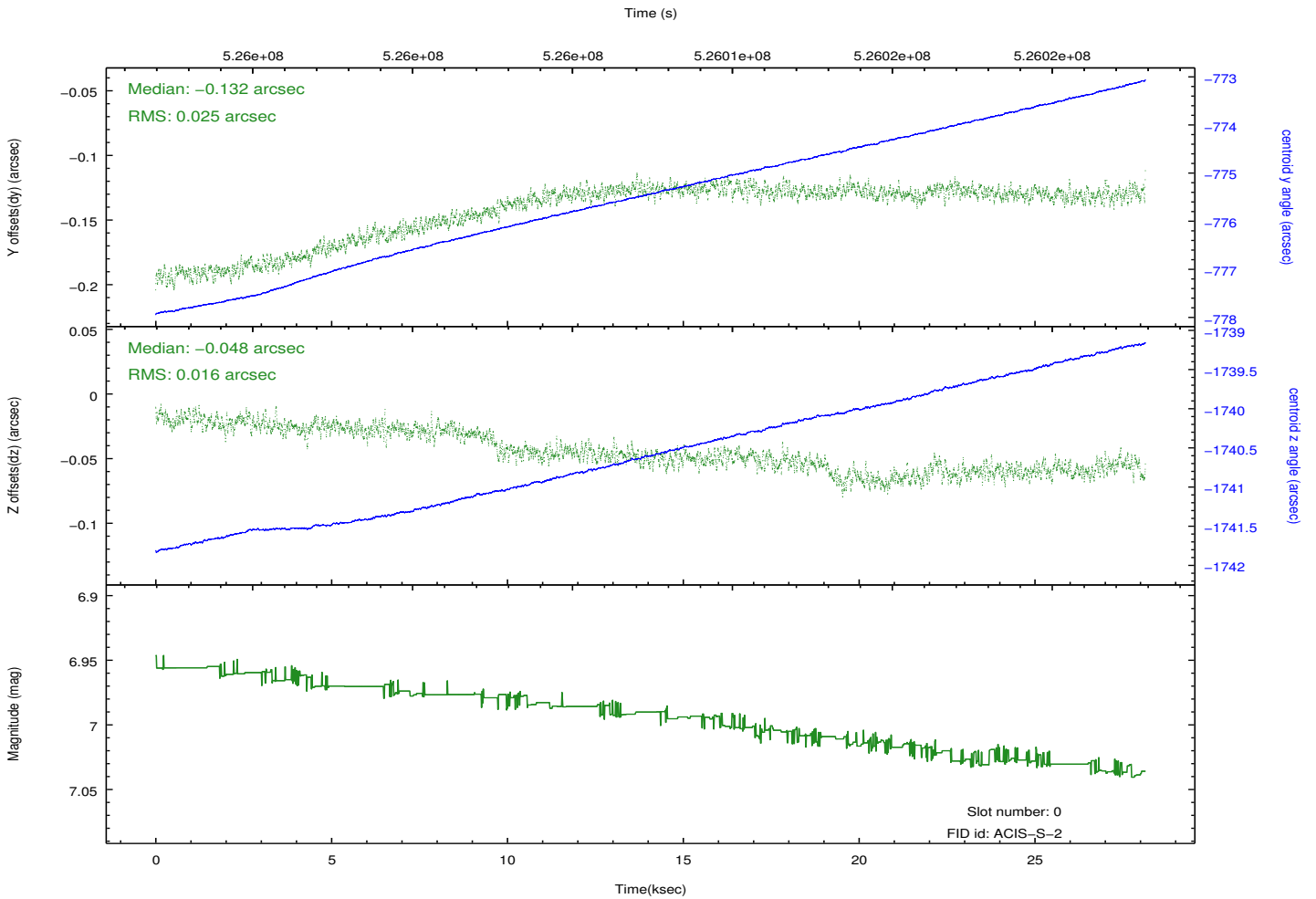
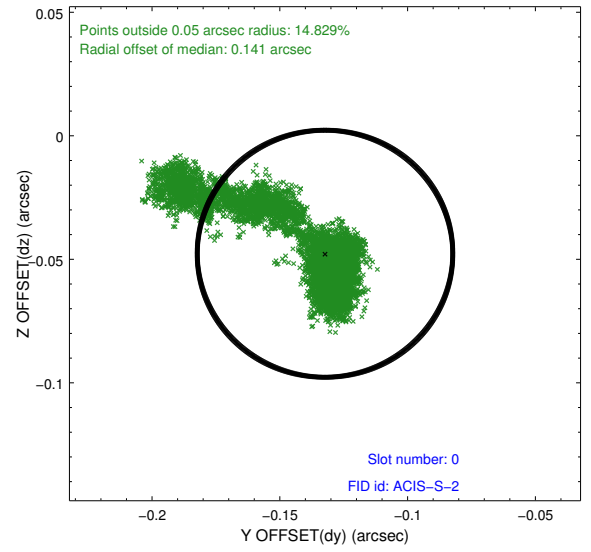
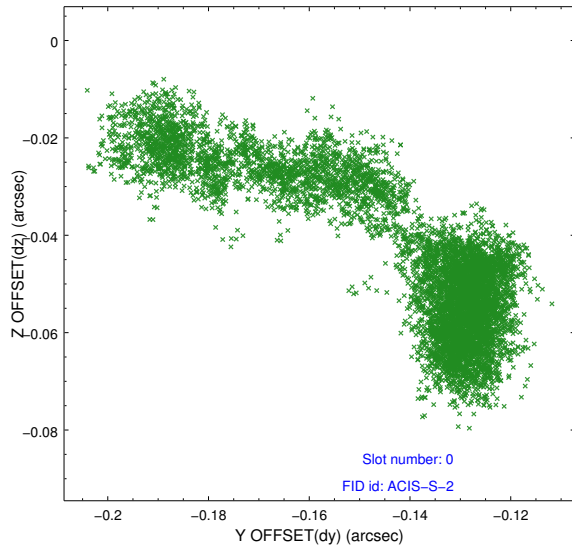


2.4.5 Slot 7

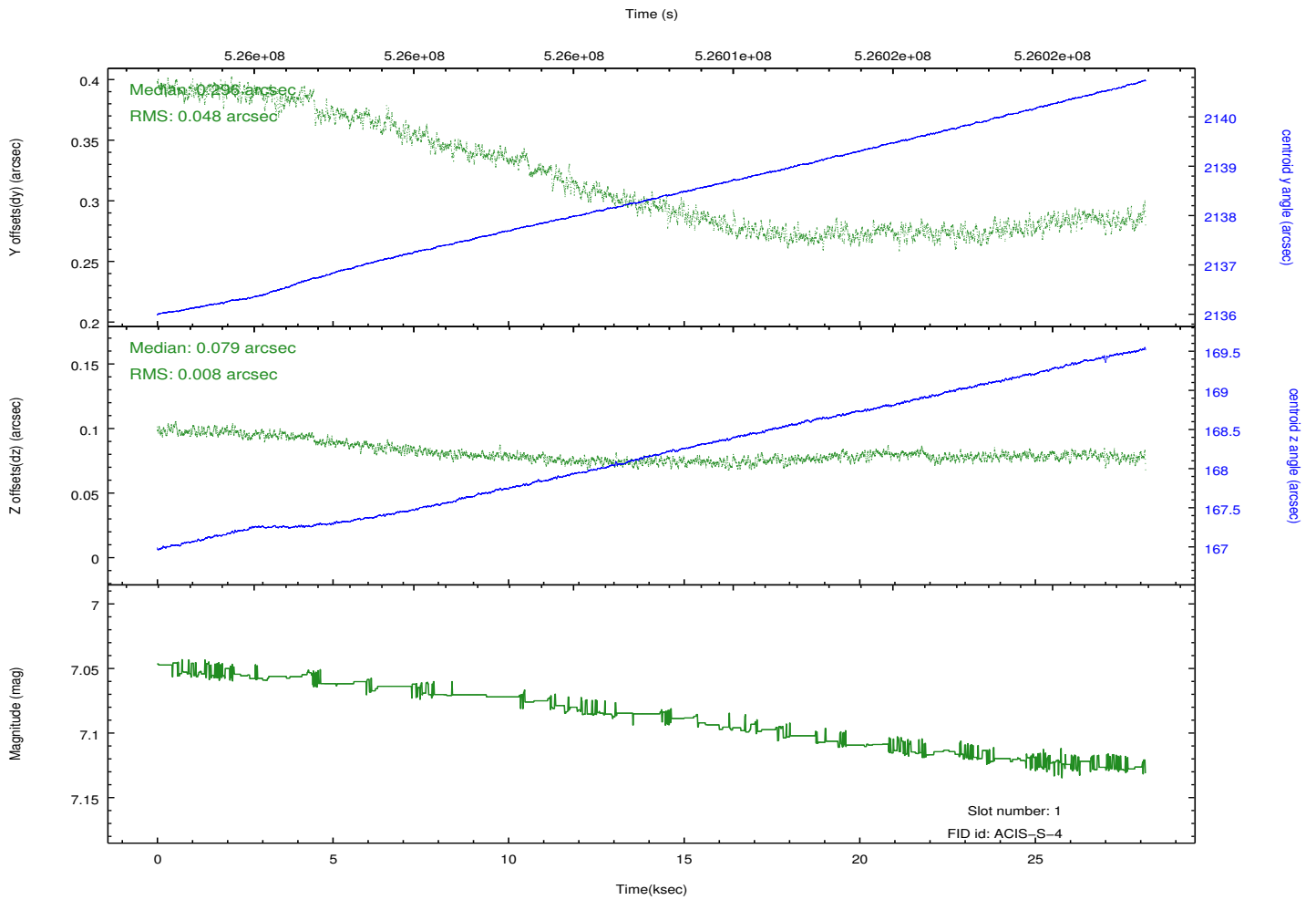
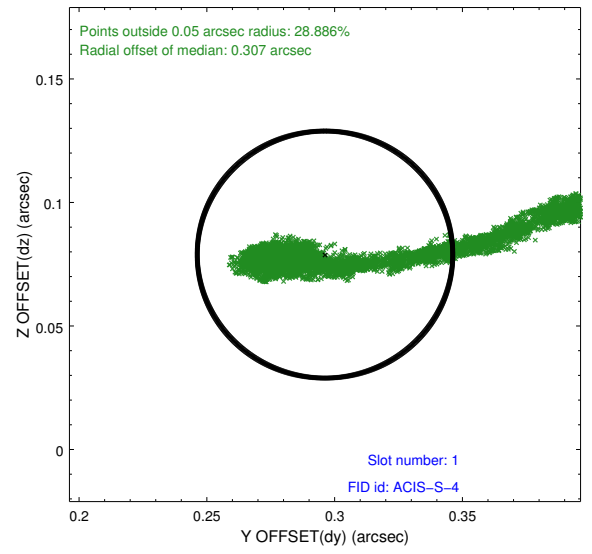
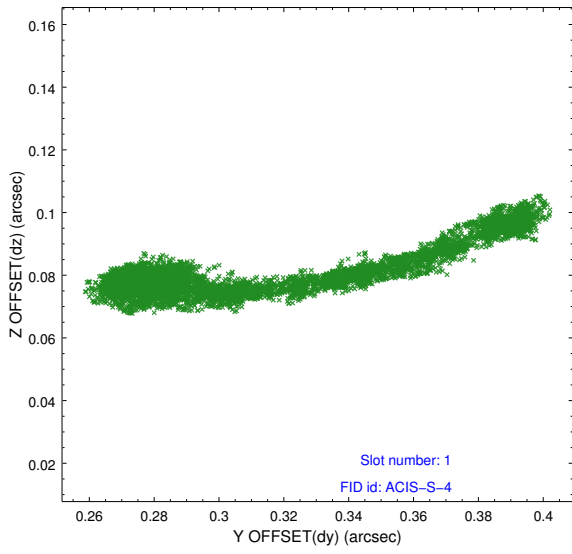


2.5 FID Slots

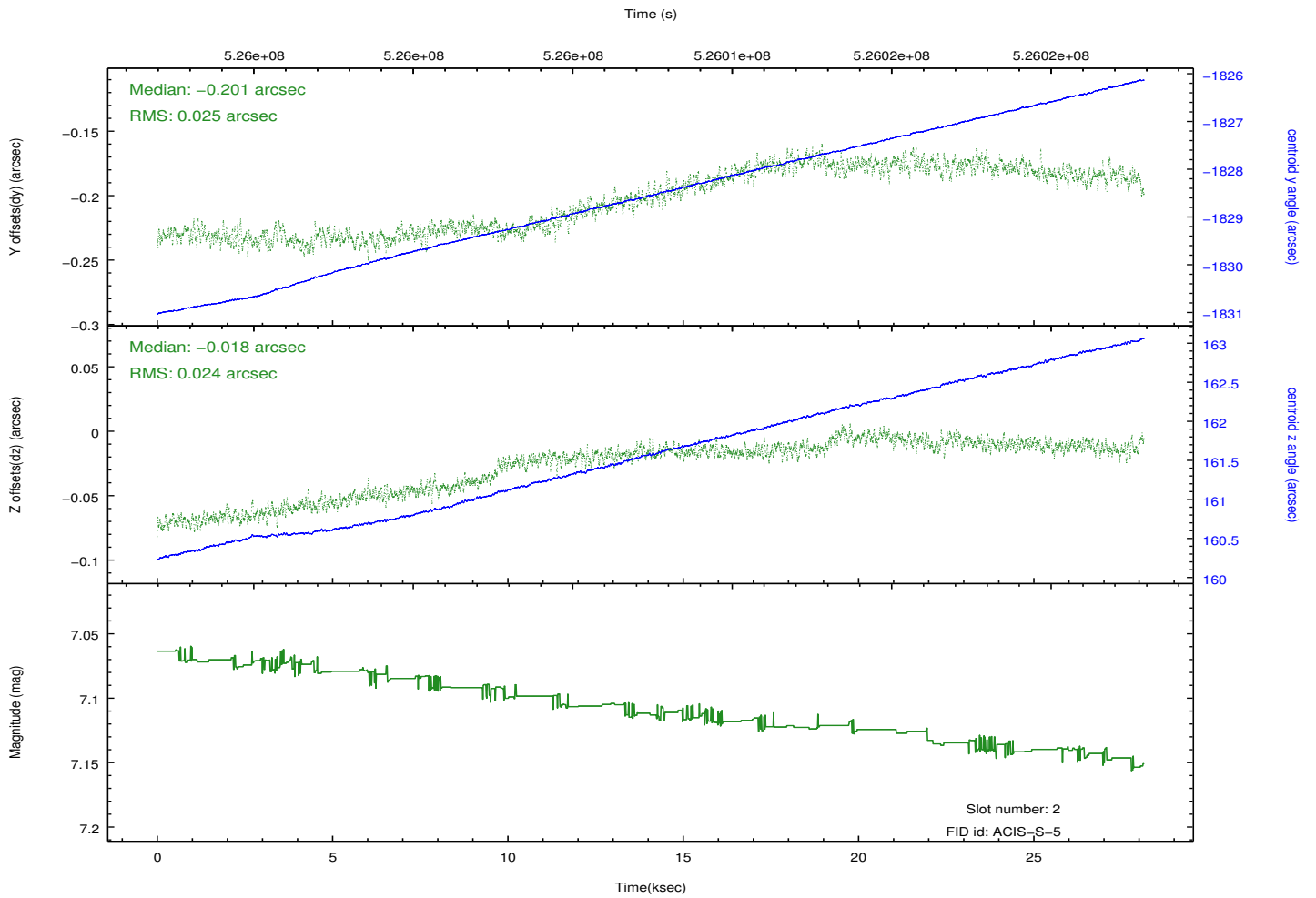
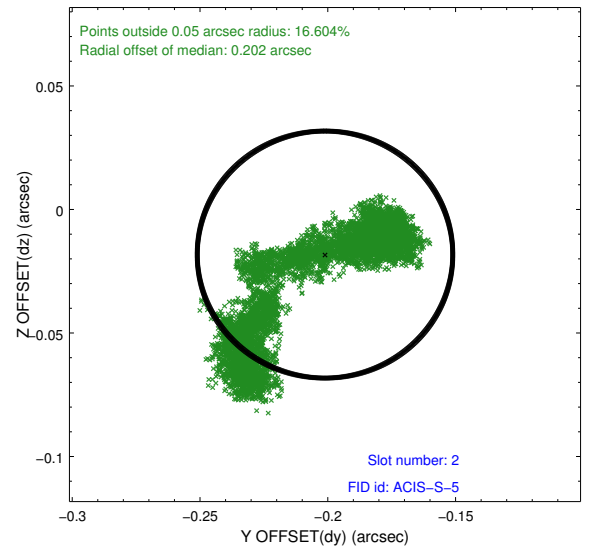
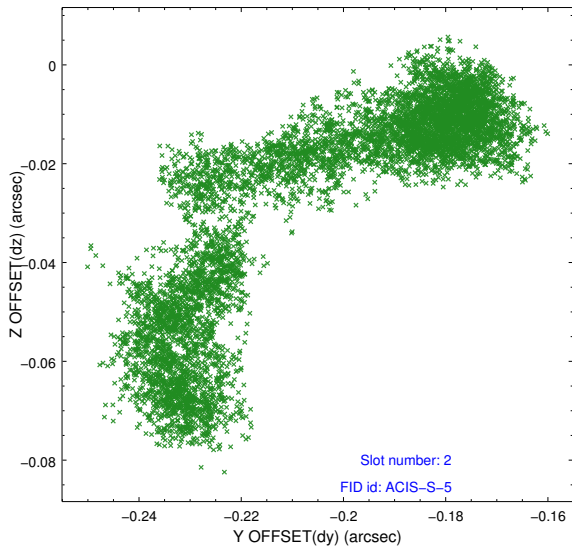
2.5.1 Slot 0



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)	2014.09.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.366800210476

A.2 Comments