

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16242 - L2 Version 2
Chandra X-Ray Center

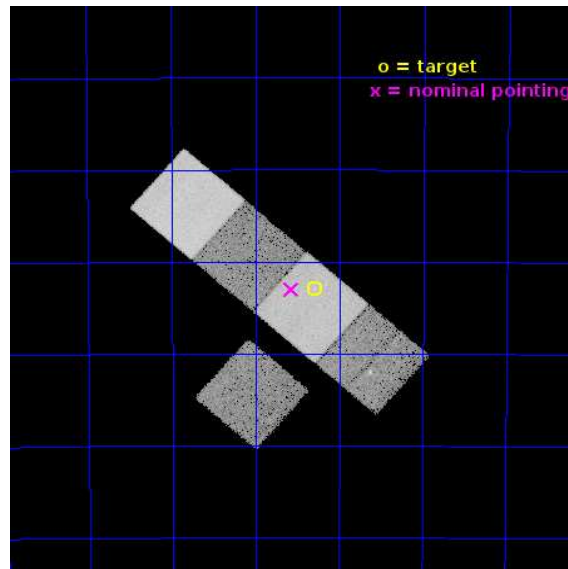
L2 Processing Date : Sep 19 2014

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1 Front

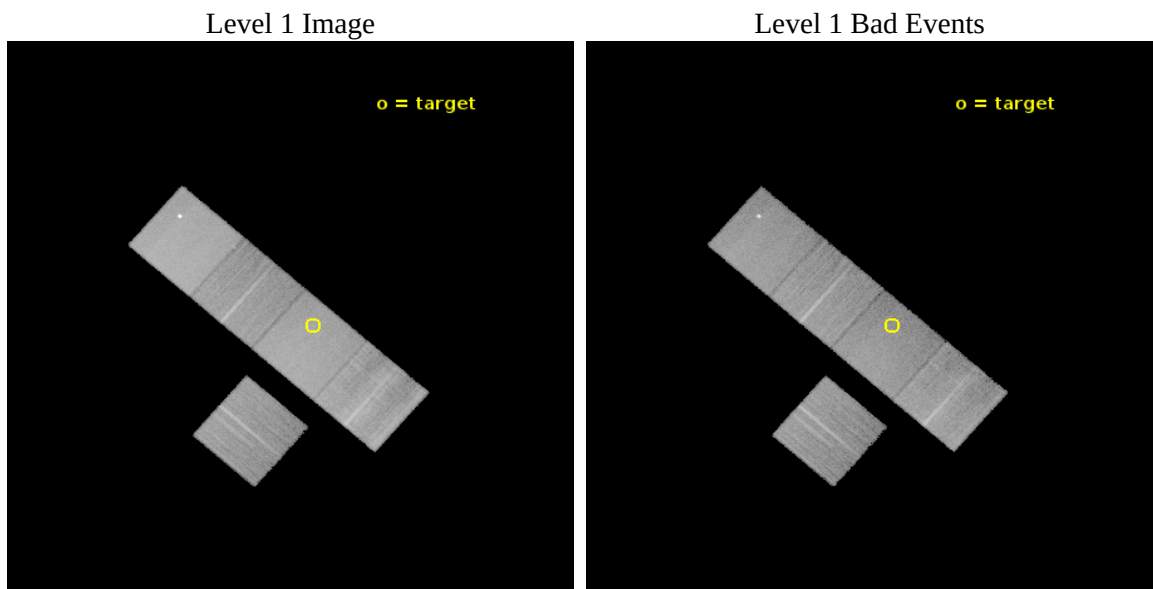
seq_num	601133	Sequence number
obs_id	16242	Observation id
title	The Missing Baryons Around Early-Type Galaxies	Proposal title
observer	Dr. Joel Bregman	Principal investigator
object	ESO 153-G003	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.575833	Observer's specified target RA [deg]
dec_targ	-54.215833	Observer's specified target Dec [deg]
ra_nom	29.643331858697	Nominal RA [deg]
dec_nom	-54.216781073208	Nominal Dec [deg]
roll_nom	41.064821797084	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30065.94749558	Sum of GTIs [s]
livetime	29673.113757321	Livetime [s]
ontime3	30065.82437557	Sum of GTIs [s]
ontime5	30065.906455576	Sum of GTIs [s]
ontime6	30062.724395335	Sum of GTIs [s]
ontime7	30065.94749558	Sum of GTIs [s]
ontime8	30065.783335567	Sum of GTIs [s]
l2events	241895	Number of level 2 events



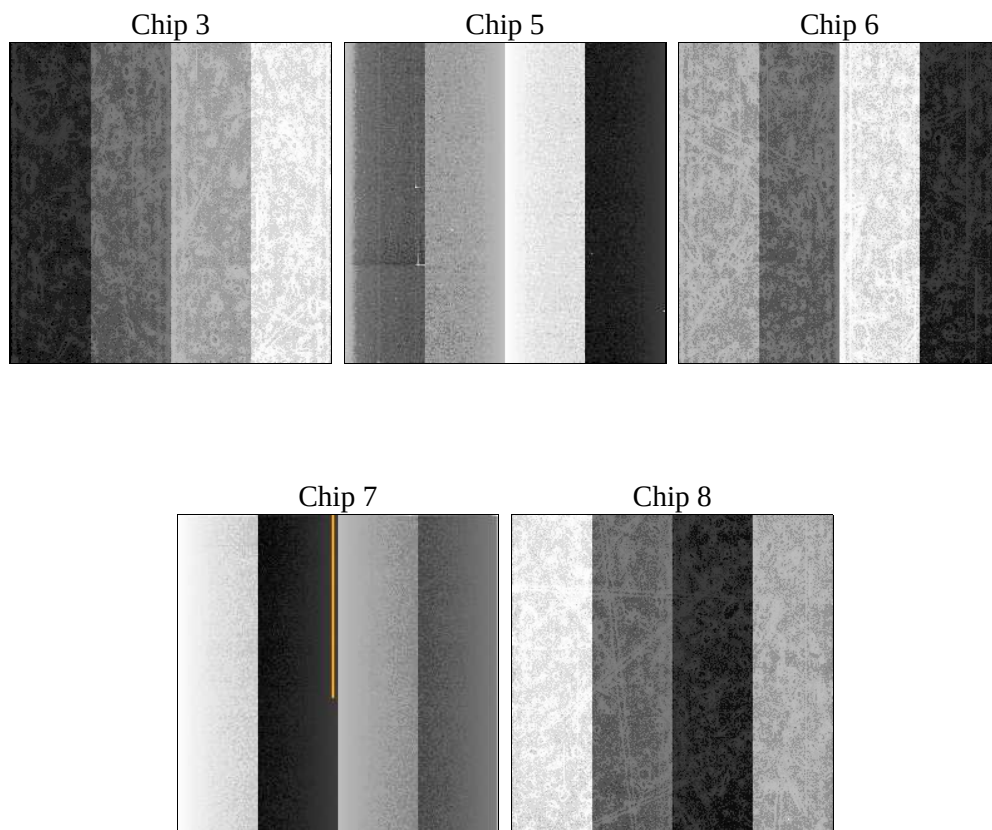
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	30065.94749558	Sum of GTIs [s]
caldsver	4.6.3	 	ontime3	30065.82437557	Sum of GTIs [s]
date	2014-09-19T19:30:39	Date and time of file creation	ontime5	30065.906455576	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30062.724395335	Sum of GTIs [s]
			ontime7	30065.94749558	Sum of GTIs [s]
			ontime8	30065.783335567	Sum of GTIs [s]
			l1events	925135	Number of level 1 events

2.1.4 Events

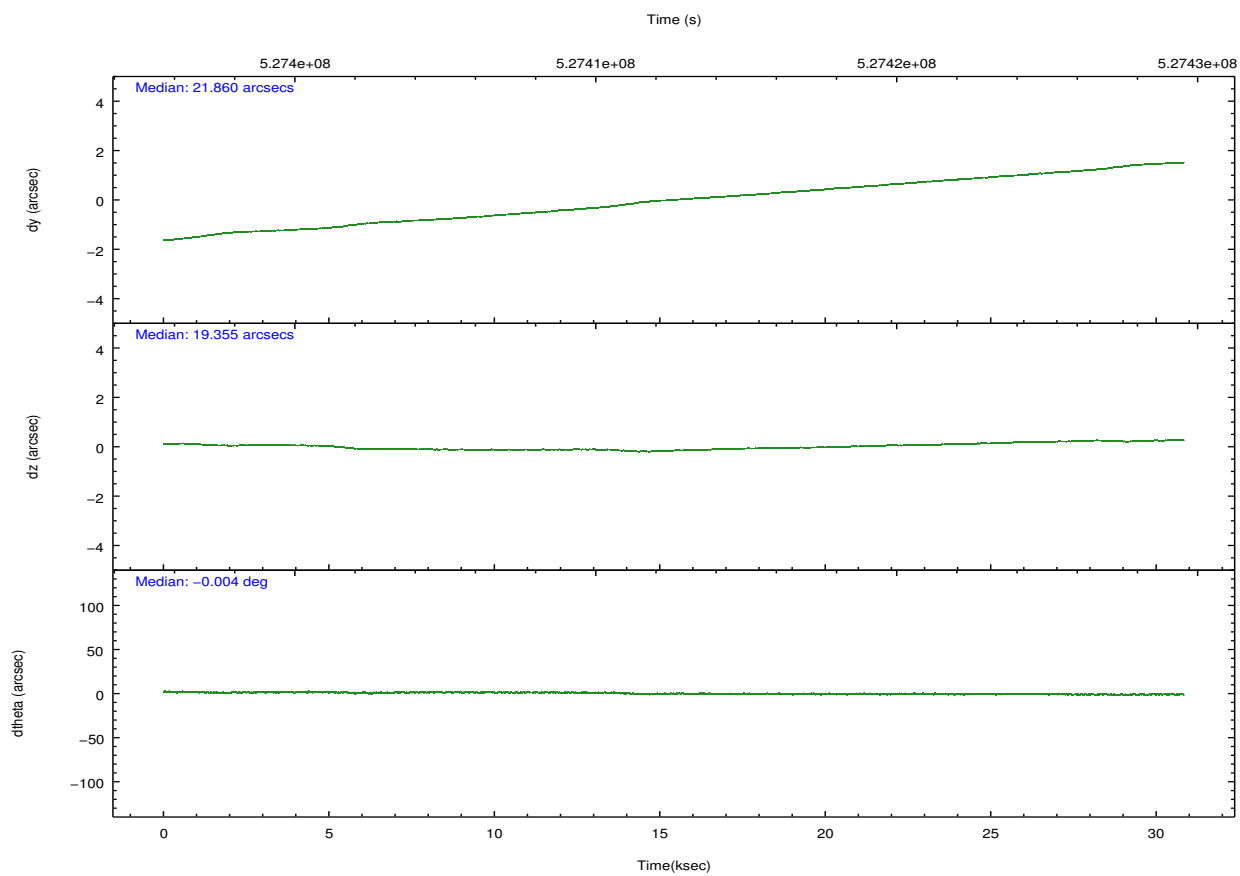
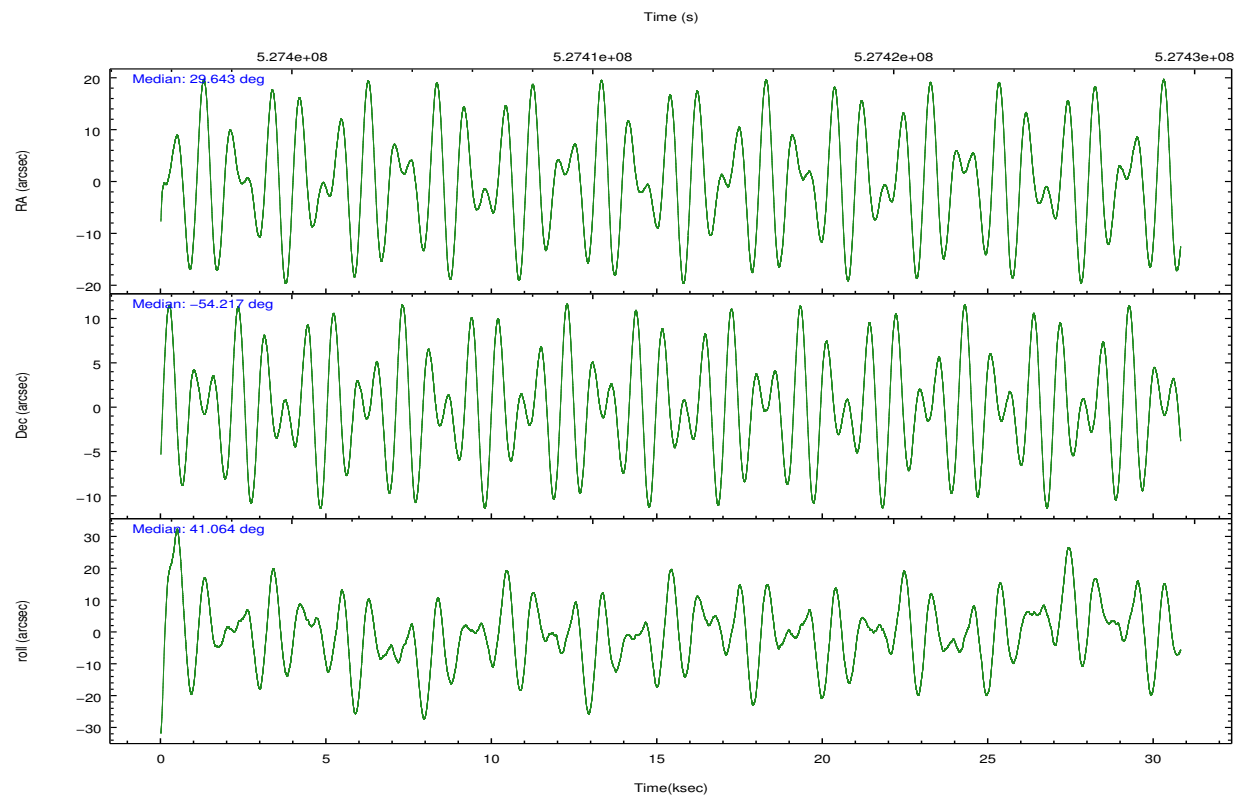
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	139302	245576	147751	199542	192964
rejected events	123613	129072	129859	112796	140940
rejected %	88%	52%	87%	56%	73%

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5256	8200	6009	7823	15010
	3%	3%	4%	3%	7%
grade 1 events	76	919	48	252	140
	0%	0%	0%	0%	0%
grade 2 events	3588	37186	4186	17867	12651
	2%	15%	2%	8%	6%
grade 3 events	1763	4085	1836	7305	5466
	1%	1%	1%	3%	2%
grade 4 events	1696	4036	1764	7431	5161
	1%	1%	1%	3%	2%
grade 5 events	7600	19272	7747	20810	11127
	5%	7%	5%	10%	5%
grade 6 events	3388	63025	4097	46334	13743
	2%	25%	2%	23%	7%
grade 7 events	115935	108853	122064	91720	129666
	83%	44%	82%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	29.628692	29.64333185869723	CCD I2 on	N	N
[deg] Pointing Dec	-54.242869	-54.21678107320842	CCD I3 on	Y	Y
[deg] Pointing Roll	40.896338	41.06482179708398	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O1	Y
[s] Observation start time (MET)	527398015.184000	527396614.17278	CCD S5 on	N	N
Observation start date	2014-09-18T03:25:48	2014-09-18T03:03:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	527428015.184000	527428812.49957	On-chip summing requested	N	N
Observation end date	2014-09-18T11:45:48	2014-09-18T12:00:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect

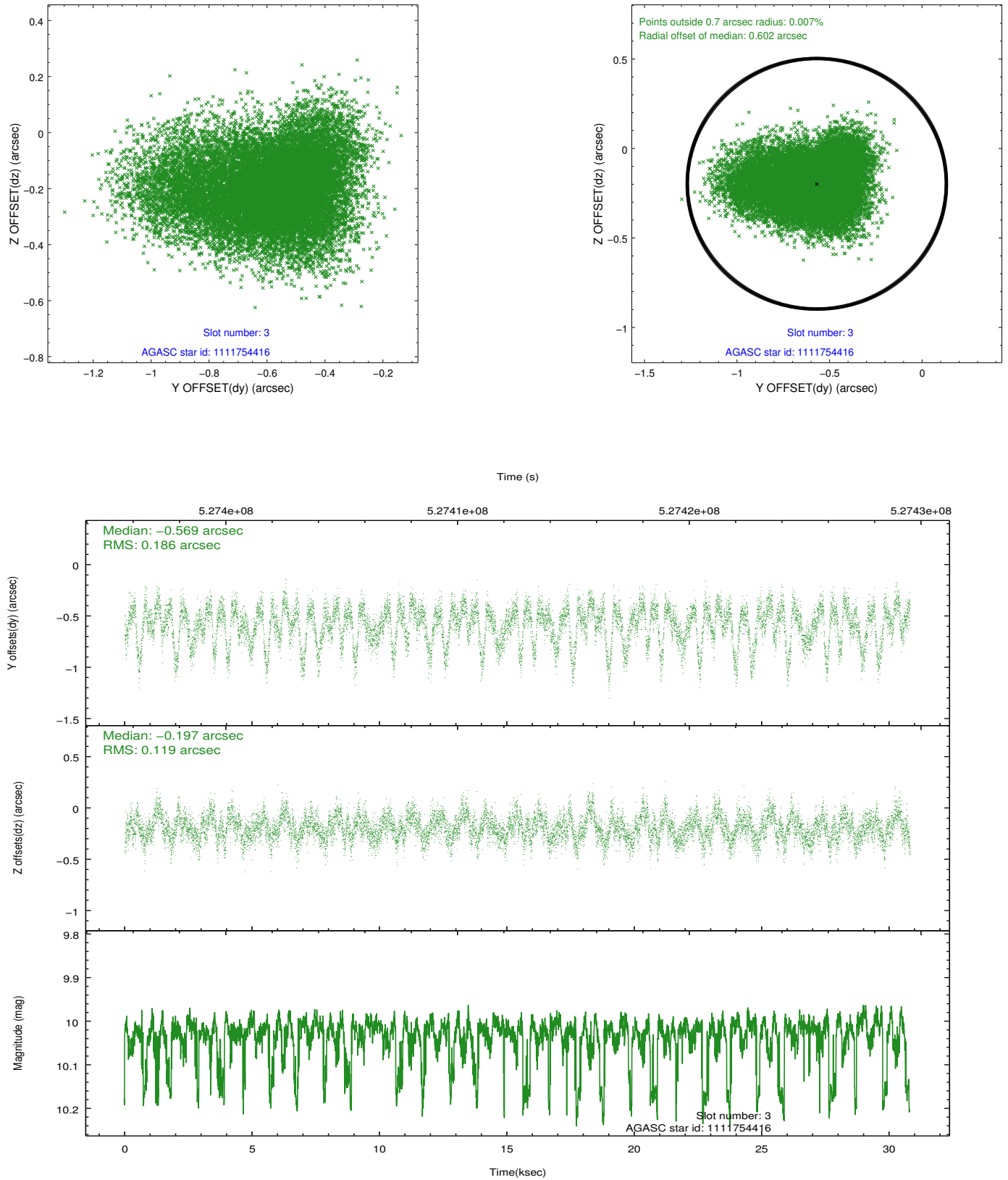


Slot Statistics

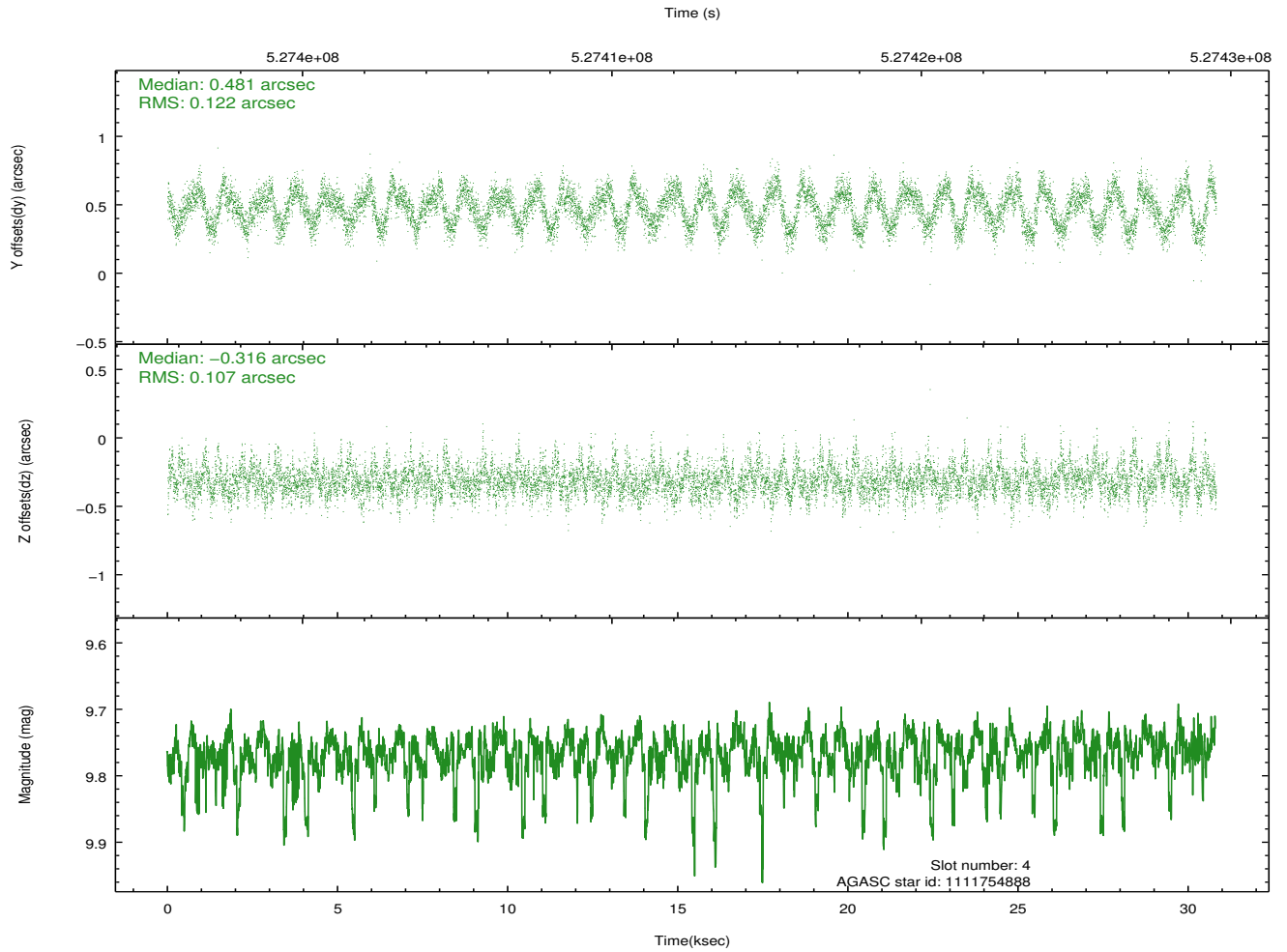
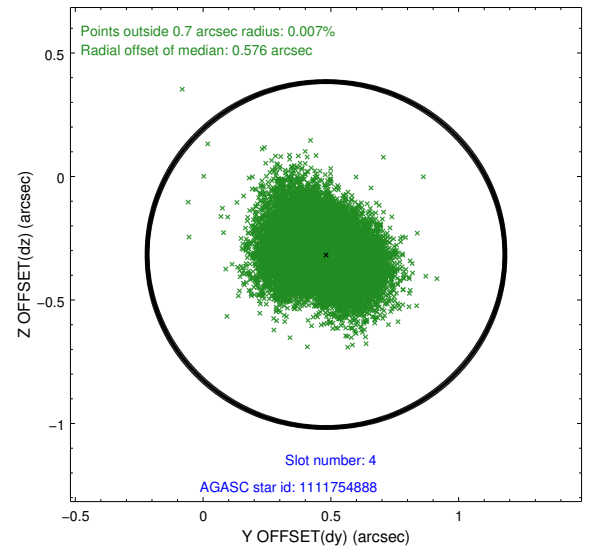
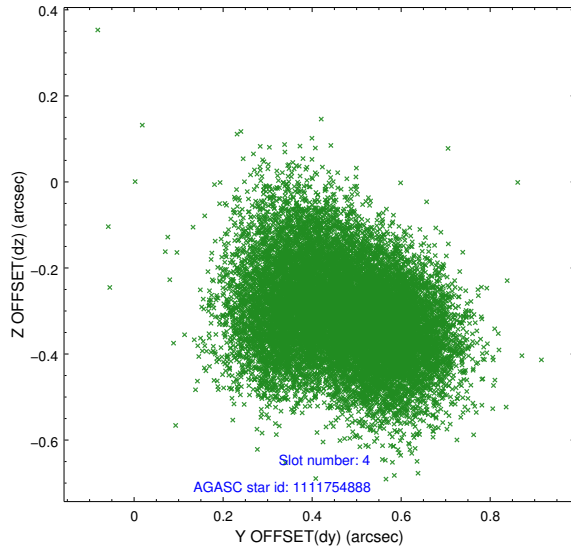
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.00	7517	-0.124	-0.027	0.014	0.023	0.000000	0.000000	-775.10	-1740.79
1	FID	ACIS-S-4	7.09	7517	0.264	0.068	0.021	0.064	0.000000	0.000000	2138.55	167.72
2	FID	ACIS-S-5	7.12	7517	-0.169	-0.031	0.028	0.051	0.000000	0.000000	-1827.91	161.36
3	GUIDE	1111754416	10.03	15015	-0.569	-0.197	0.230	0.399	29.941054	-53.732140	1705.83	953.01
4	GUIDE	1111754888	9.77	15023	0.481	-0.316	0.175	0.272	29.214573	-54.161411	-468.37	790.85
5	GUIDE	1111757128	8.99	15026	-0.385	0.382	0.161	0.245	29.037275	-54.403072	-1316.70	371.37
6	GUIDE	1111758216	9.05	15026	0.497	0.120	0.160	0.263	30.288178	-54.010077	1599.96	-284.74
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

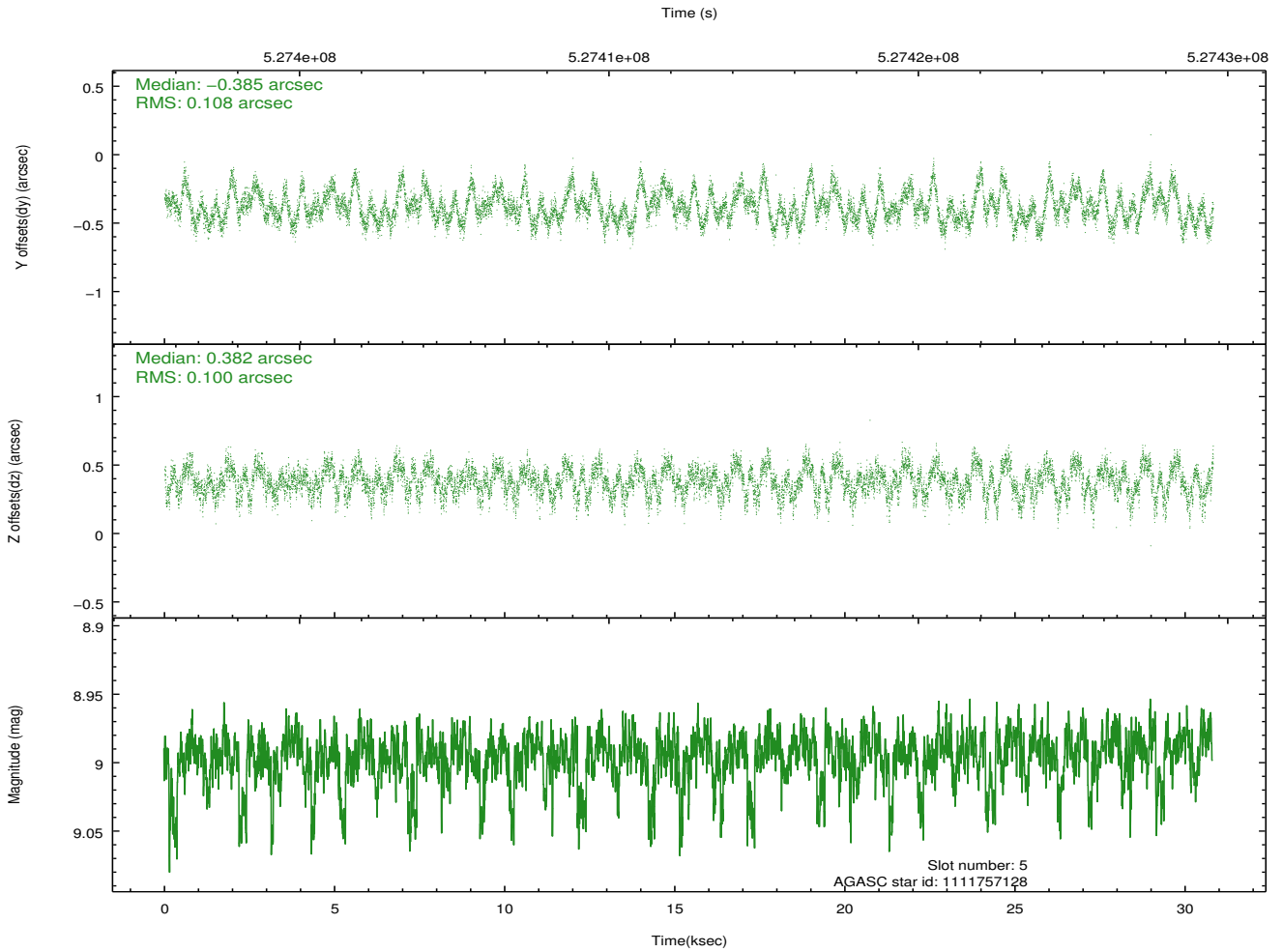
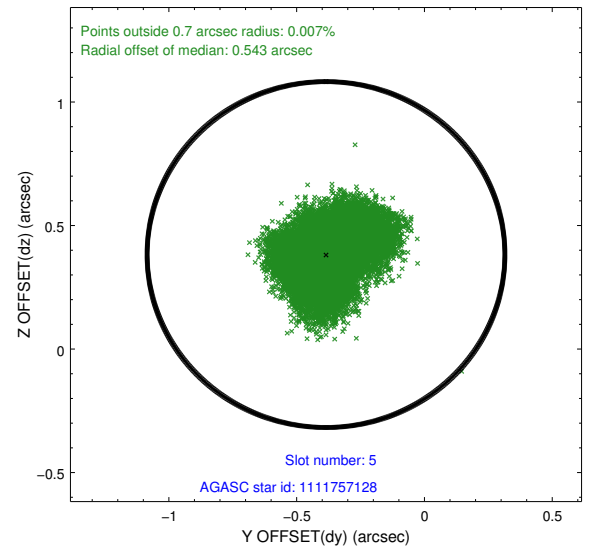
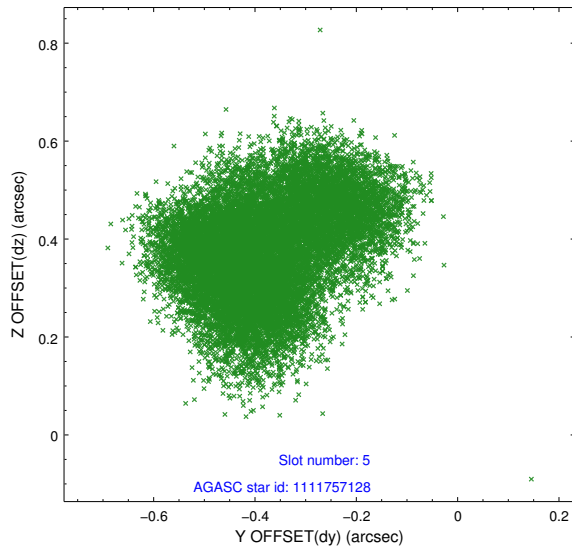
2.4.1 Slot 3



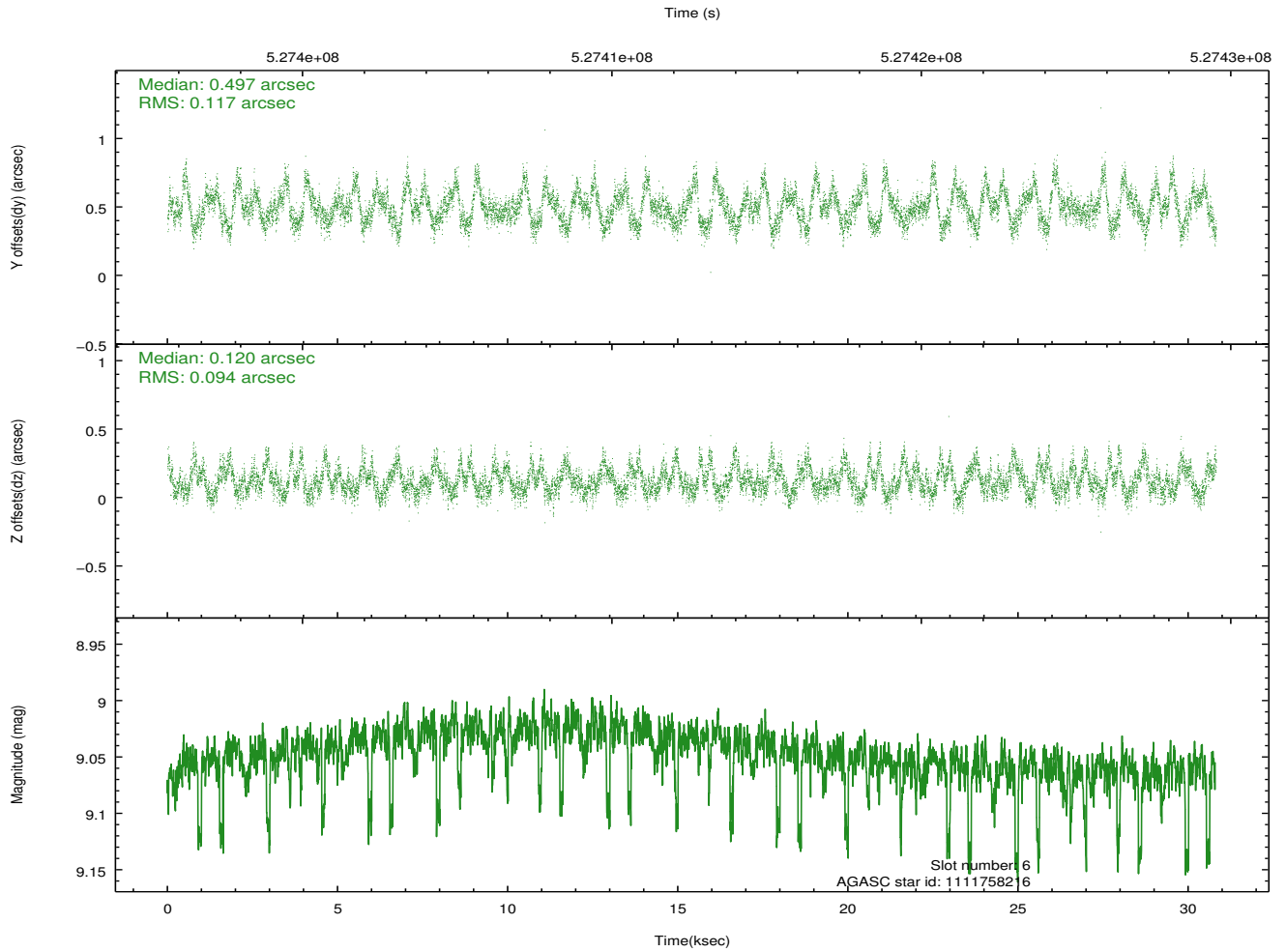
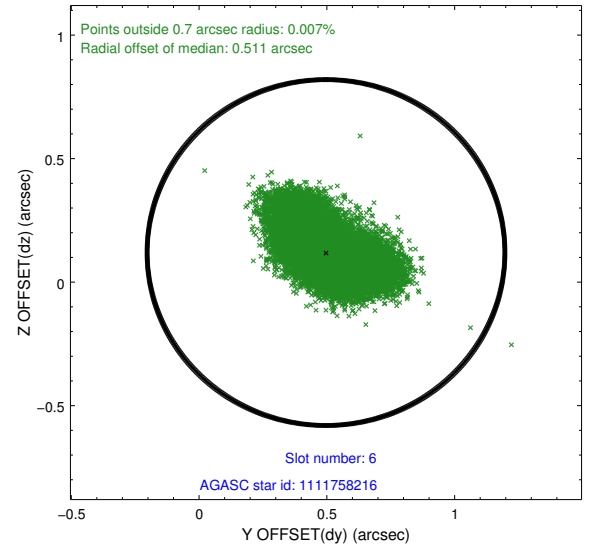
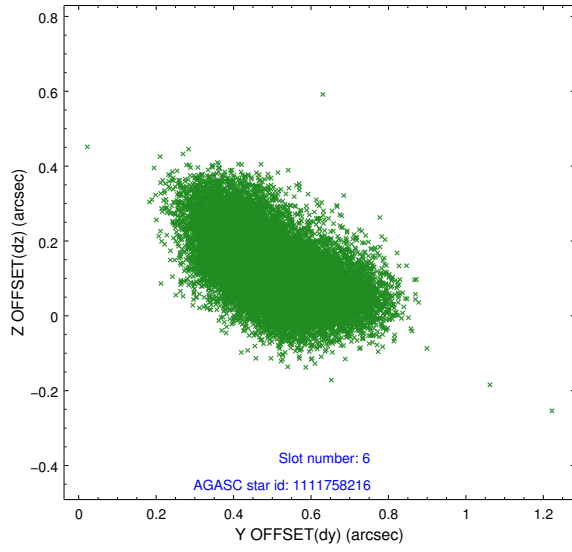
2.4.2 Slot 4



2.4.3 Slot 5

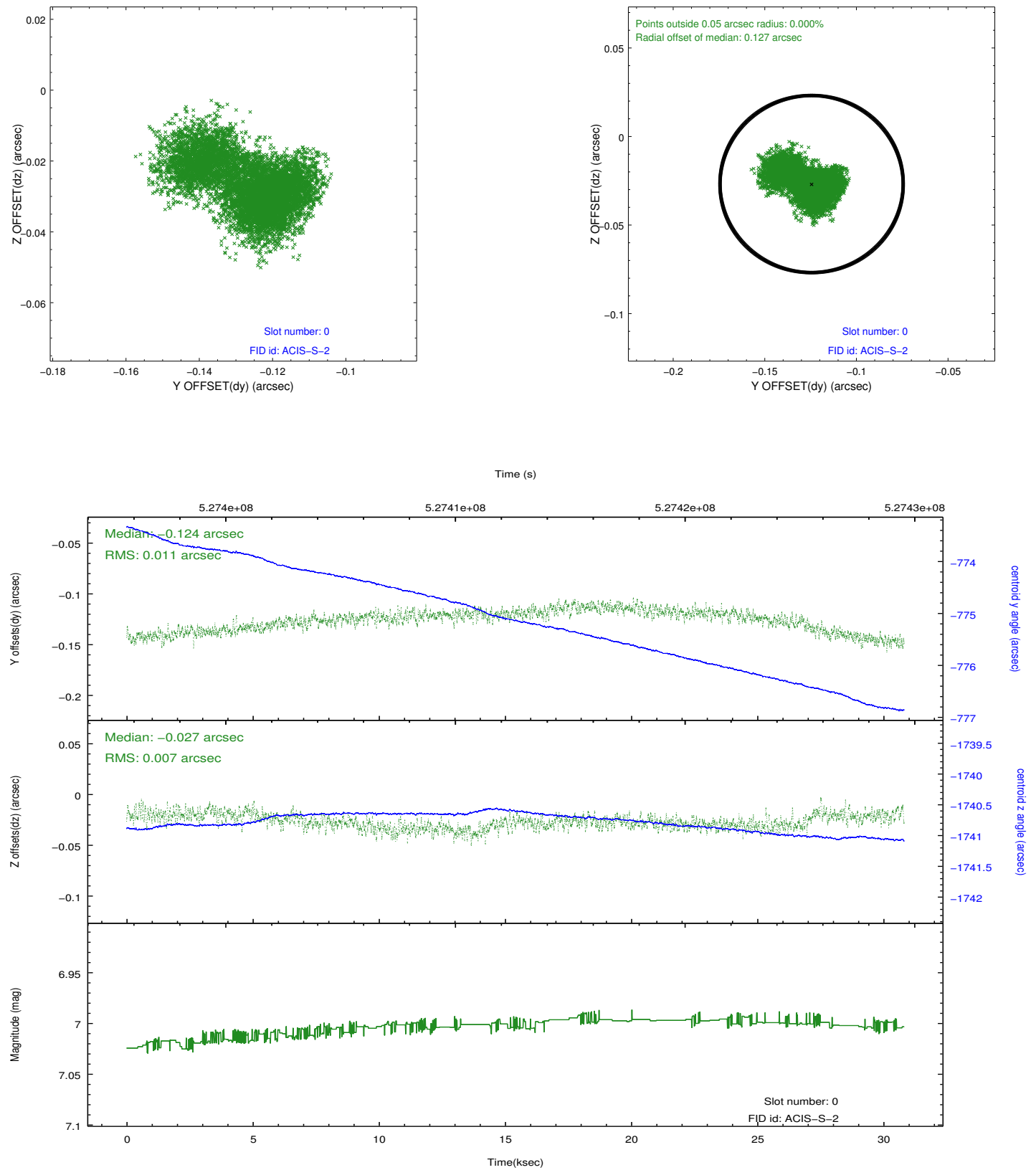


2.4.4 Slot 6

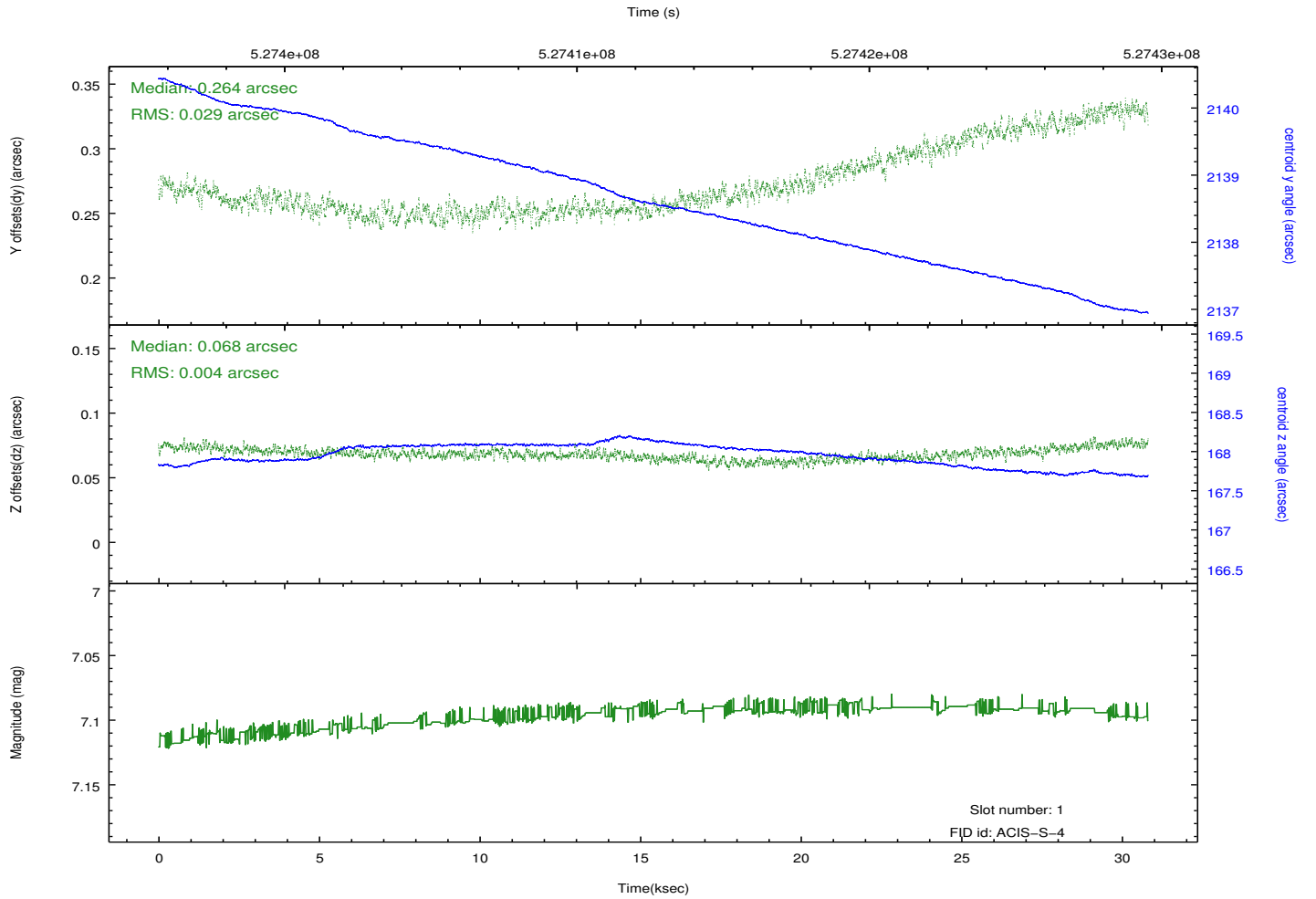
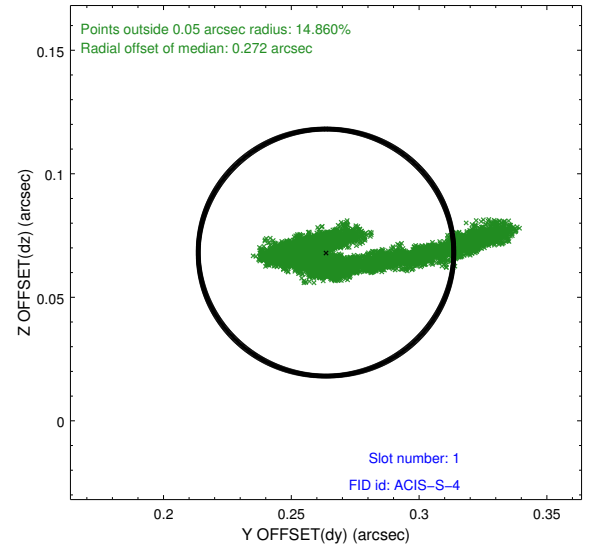
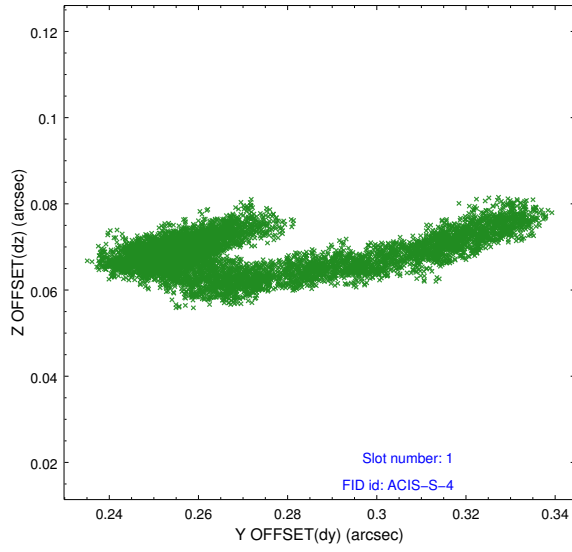


2.5 FID Slots

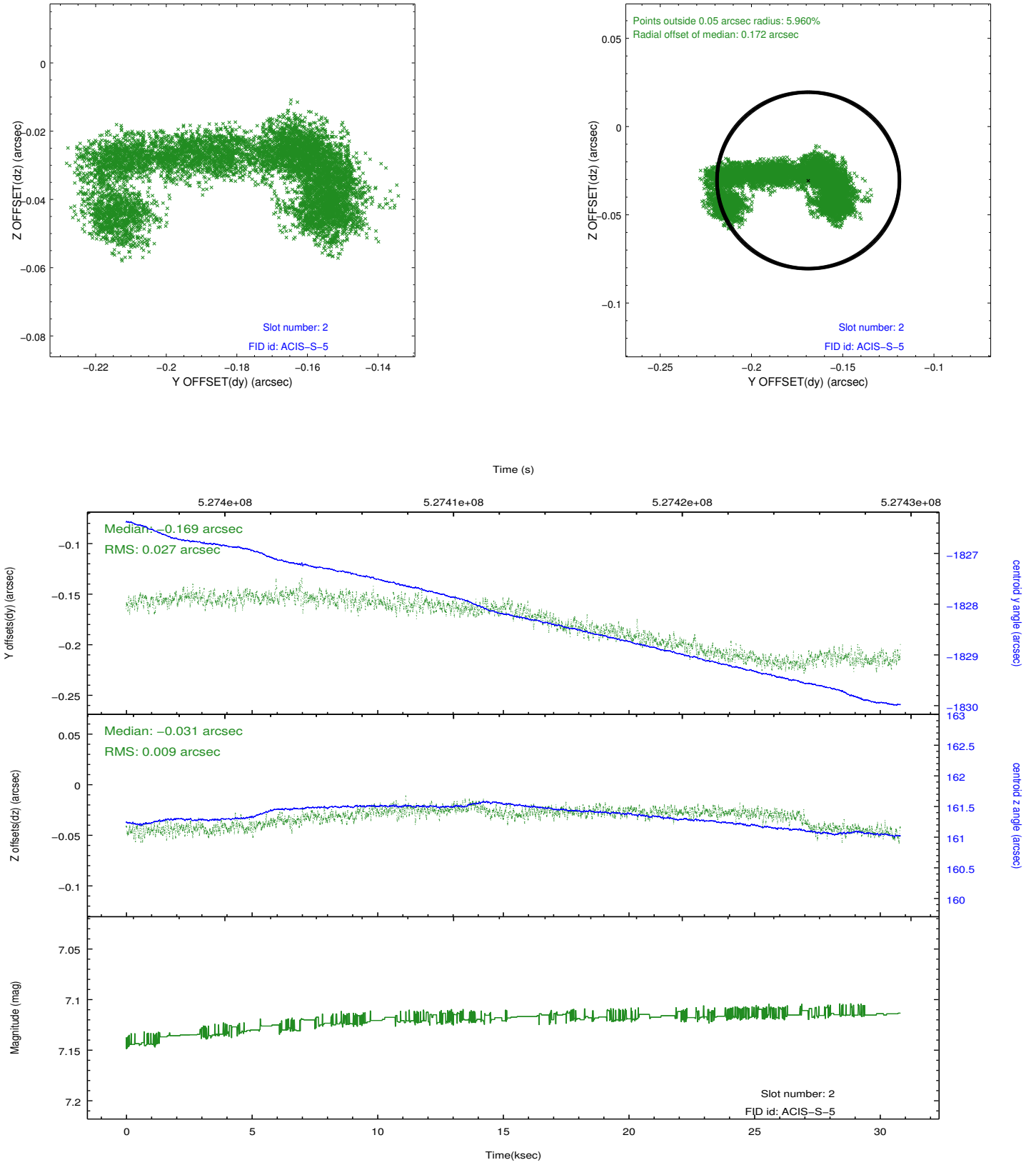
2.5.1 Slot 0



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)	2014.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.06594749558

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.