

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 723 - L2 Version 4
Chandra X-Ray Center

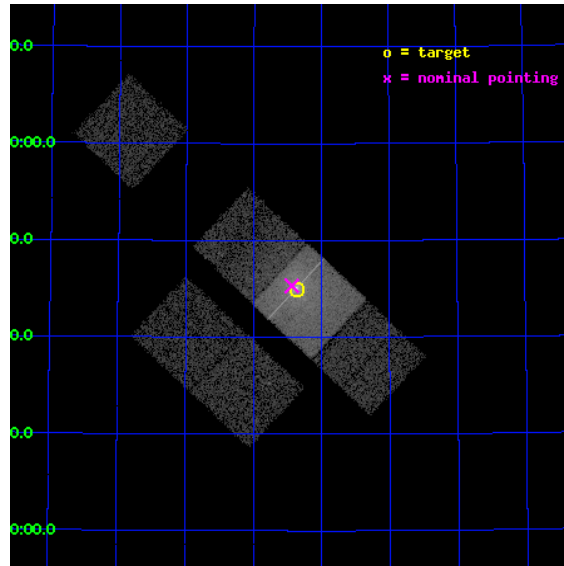
L2 Processing Date : Aug 28 2012

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1 Front

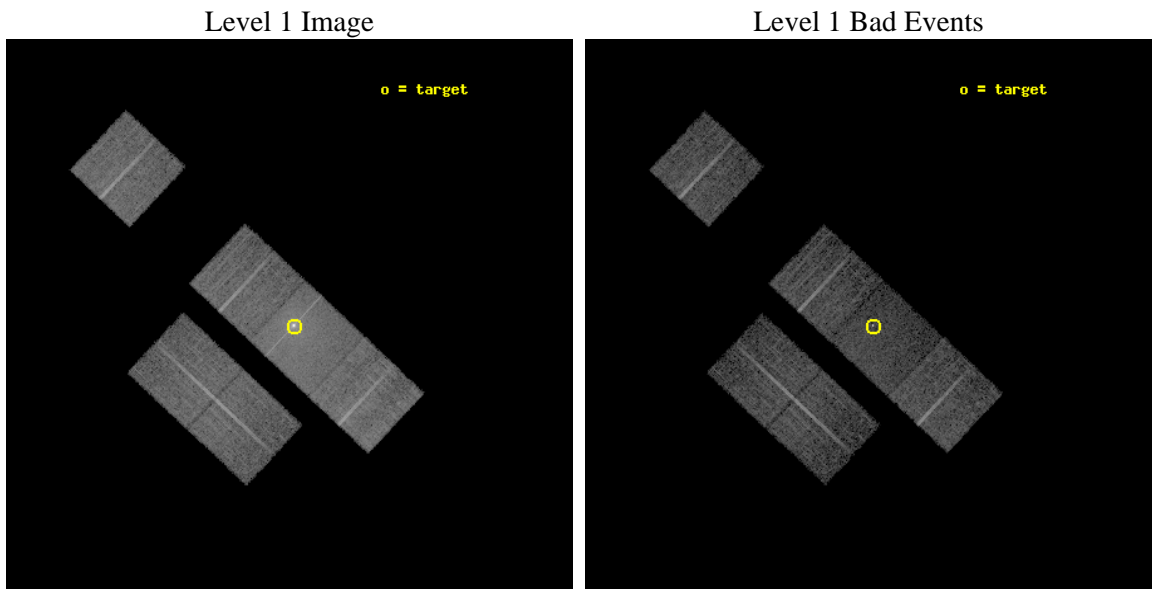
seq_num	500019	Sequence number
obs_id	723	Observation id
title	A STUDY OF ANOMALOUS X-RAY PULSARS	Proposal title
observer	Dr. CHRYSSA KOUVELIOTOU	Principal investigator
object	4U 0142+61	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.591667	Observer's specified target RA [deg]
dec_targ	61.75	Observer's specified target Dec [deg]
ra_nom	26.609428232054	Nominal RA [deg]
dec_nom	61.755343809751	Nominal Dec [deg]
roll_nom	43.158364664957	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7840.0000072867	Sum of GTIs [s]
livetime	7740.7252065132	Livetime [s]
ontime2	7840.0000072867	Sum of GTIs [s]
ontime3	7840.0000072867	Sum of GTIs [s]
ontime4	7840.0000072867	Sum of GTIs [s]
ontime6	7840.0000072867	Sum of GTIs [s]
ontime7	7840.0000072867	Sum of GTIs [s]
ontime8	7840.0000072867	Sum of GTIs [s]
l2events	82405	Number of level 2 events



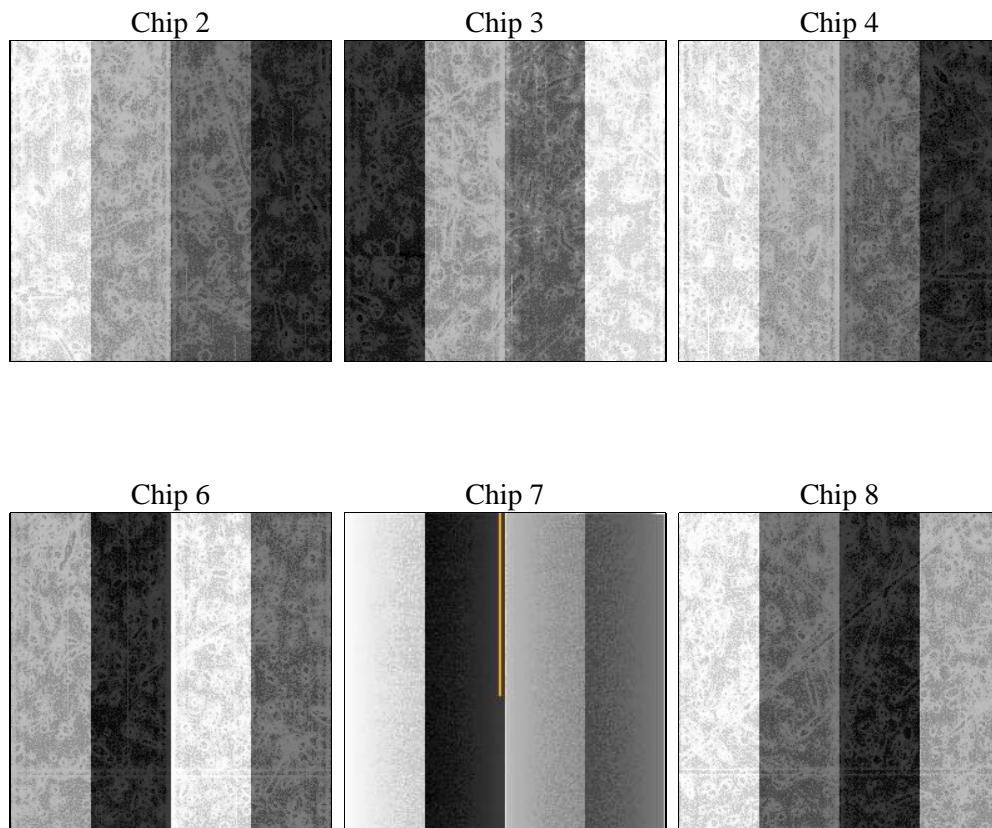
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7840.0000072867	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	7840.0000072867	Sum of GTIs [s]
date	2012-08-28T04:29:47	Date and time of file creation	ontime3	7840.0000072867	Sum of GTIs [s]
revision	4	Processing version of data	ontime4	7840.0000072867	Sum of GTIs [s]
			ontime6	7840.0000072867	Sum of GTIs [s]
			ontime7	7840.0000072867	Sum of GTIs [s]
			ontime8	7840.0000072867	Sum of GTIs [s]
			l1events	390778	Number of level 1 events

2.1.4 Events

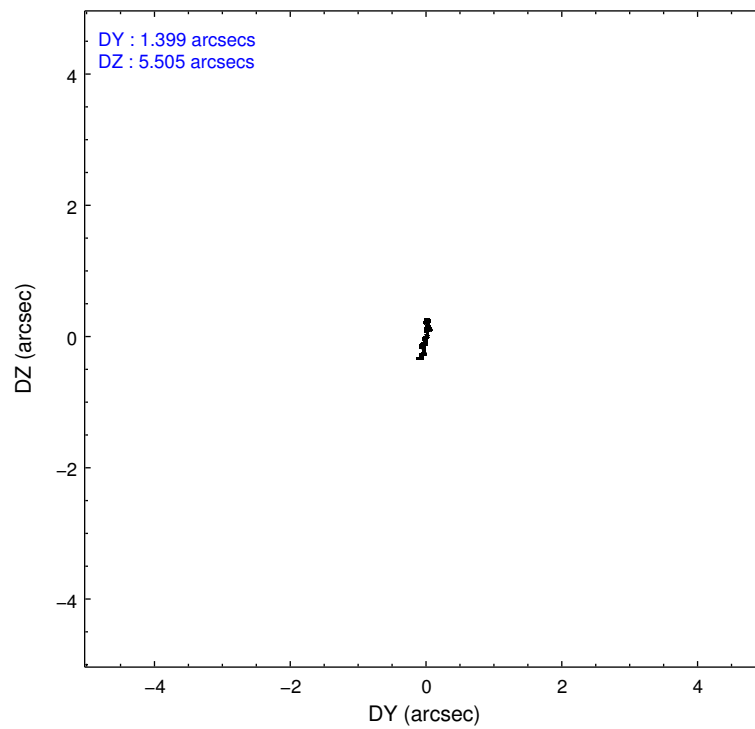
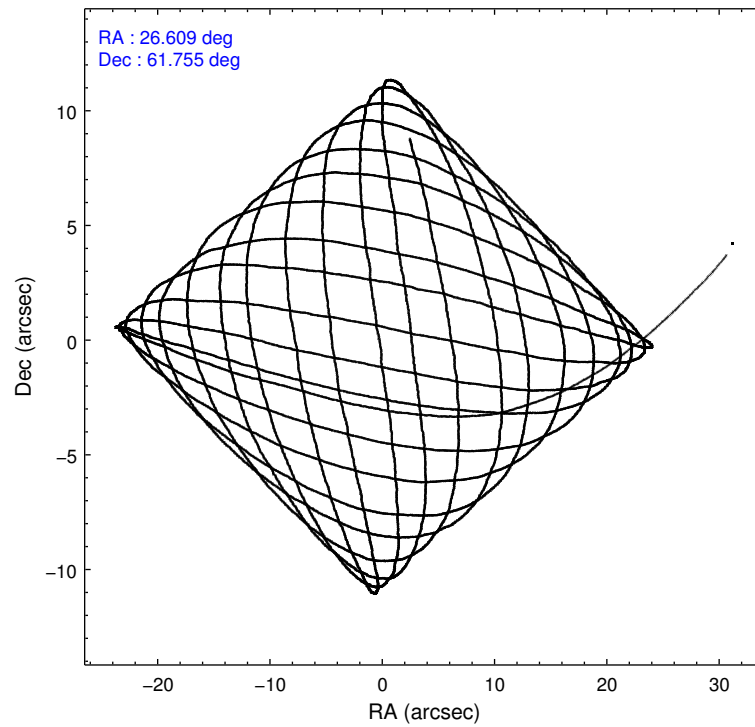
	ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8
level 1 events	54712	53505	61025	58018	89853	73665	grade 0 events	2967	2924	2859	4662	9399	6619
rejected events	48114	46962	54153	49125	37456	54840		5%	5%	4%	8%	10%	8%
rejected %	87%	87%	88%	84%	41%	74%	grade 1 events	22	21	29	38	206	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1389	1366	1697	1638	12020	3330
								2%	2%	2%	2%	13%	4%
							grade 3 events	549	573	572	651	5519	2609
								1%	1%	0%	1%	6%	3%
							grade 4 events	596	554	573	677	5626	2335
								1%	1%	0%	1%	6%	3%
							grade 5 events	1568	1743	1667	1984	6666	2571
								2%	3%	2%	3%	7%	3%
							grade 6 events	1103	1138	1180	1276	19870	3939
								2%	2%	1%	2%	22%	5%
							grade 7 events	46518	45186	52448	47092	30547	52209
								85%	84%	85%	81%	33%	70%

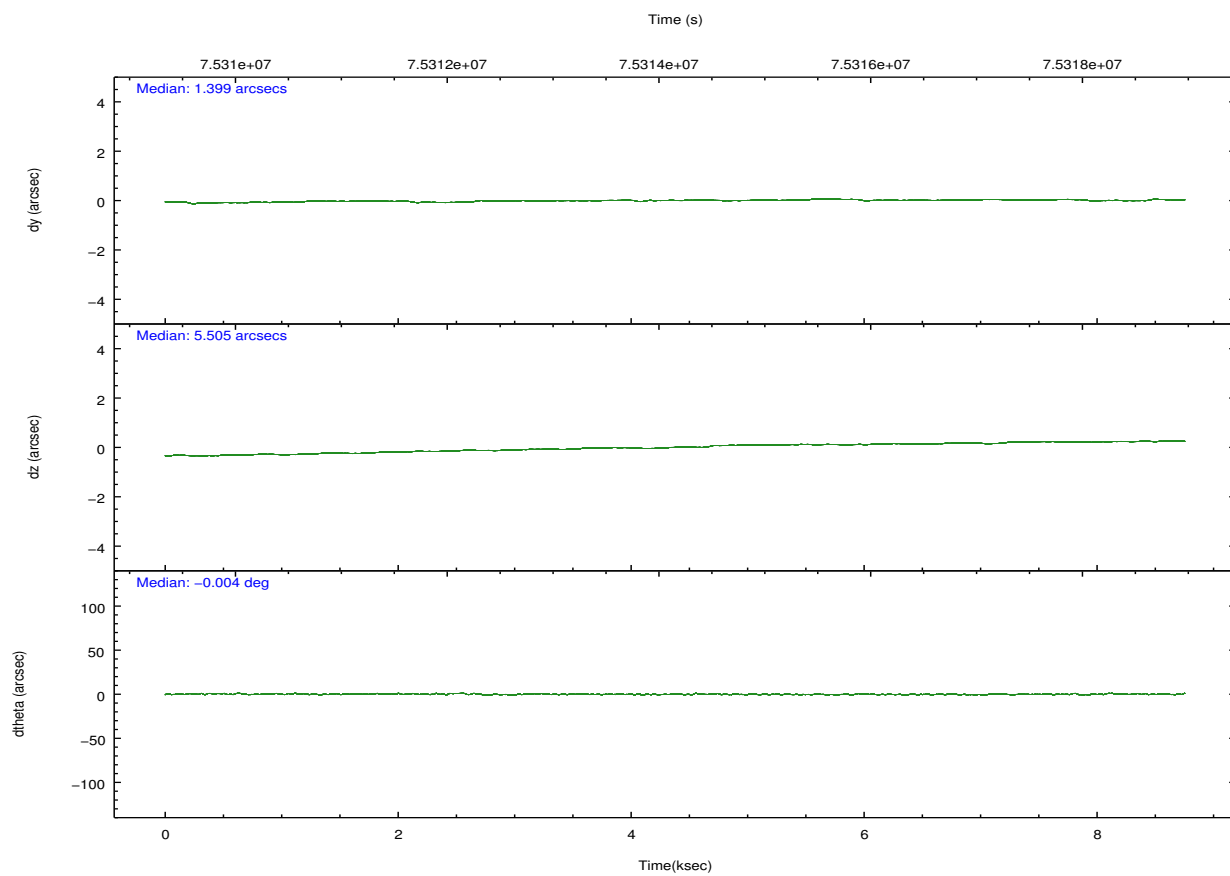
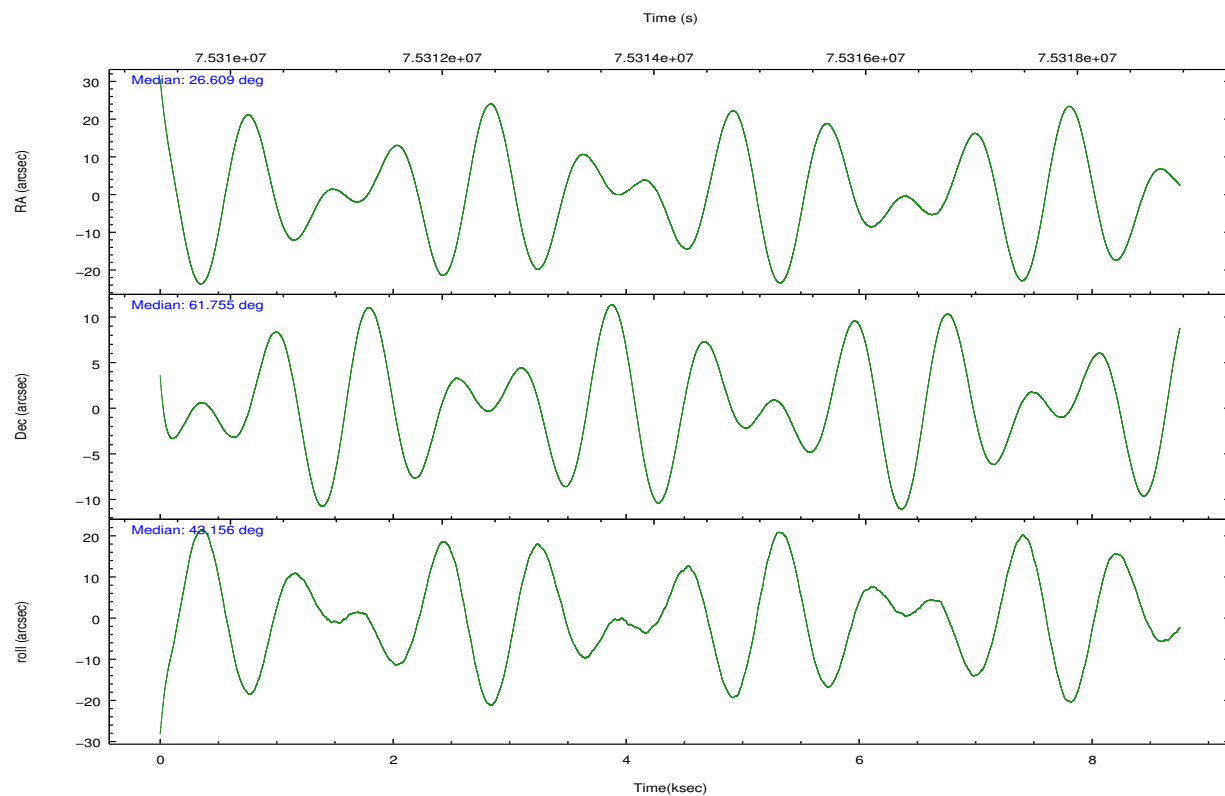
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-234678	ACIS-234678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	26.592875	26.60942823205435
[deg] Pointing Dec	61.729099	61.75534380975092
[deg] Pointing Roll	43.016323	43.15836466495693
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	75310531.184000	75309288.911327
Observation start date	2000-05-21T15:34:27	2000-05-21T15:14:48
[s] Observation end time (MET)	75318531.184000	75318665.099171
Observation end date	2000-05-21T17:47:47	2000-05-21T17:51:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



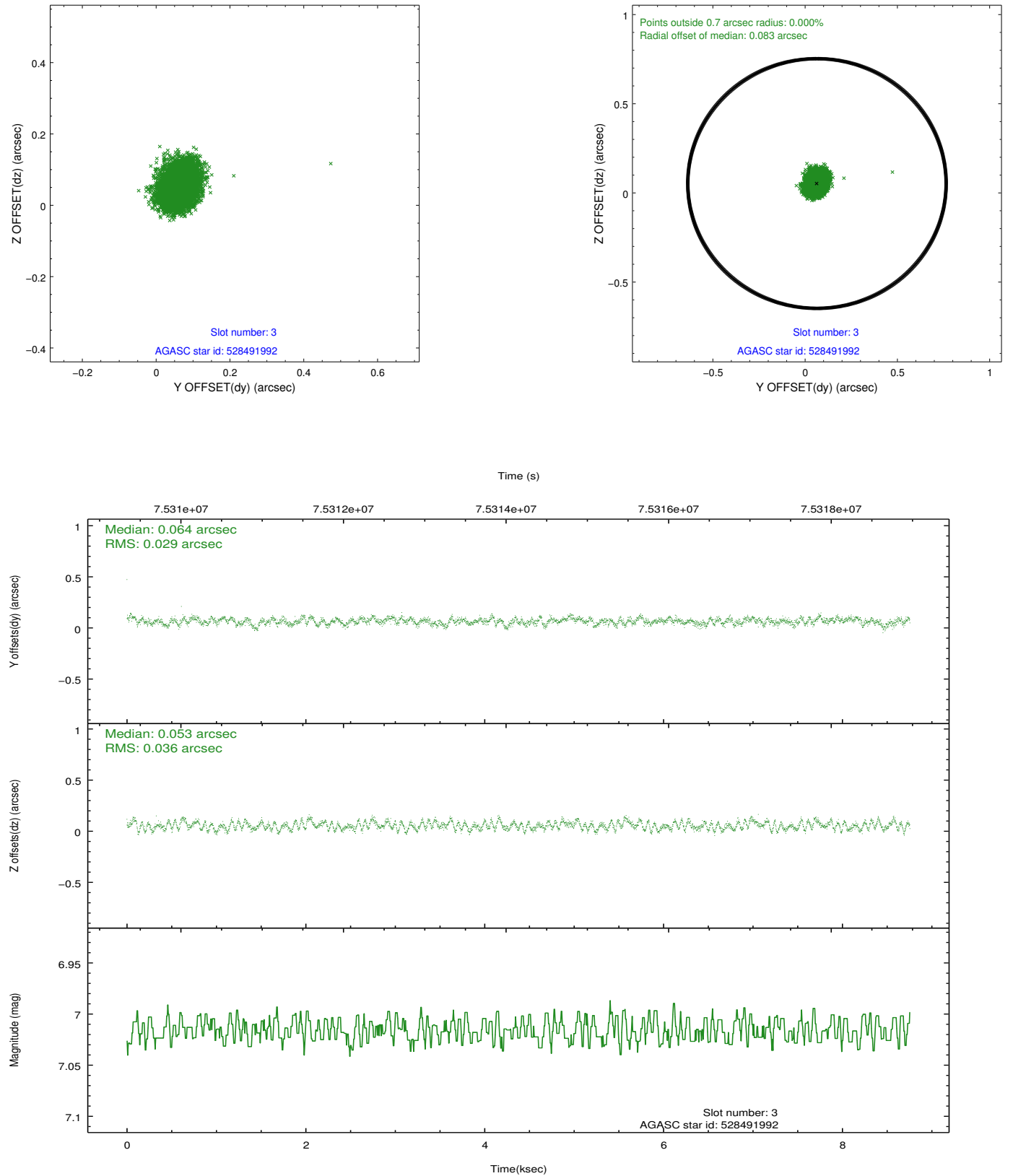


Slot Statistics

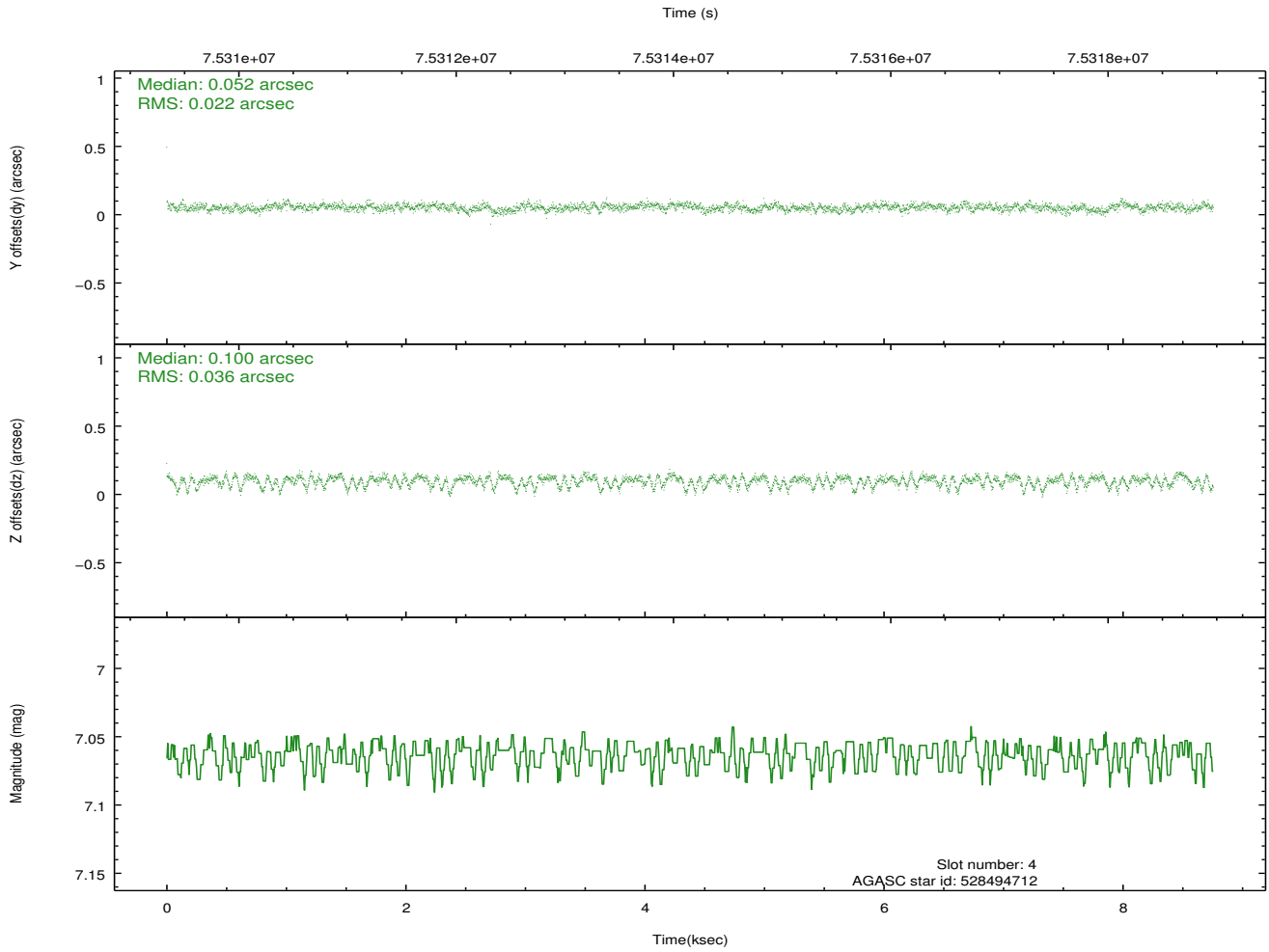
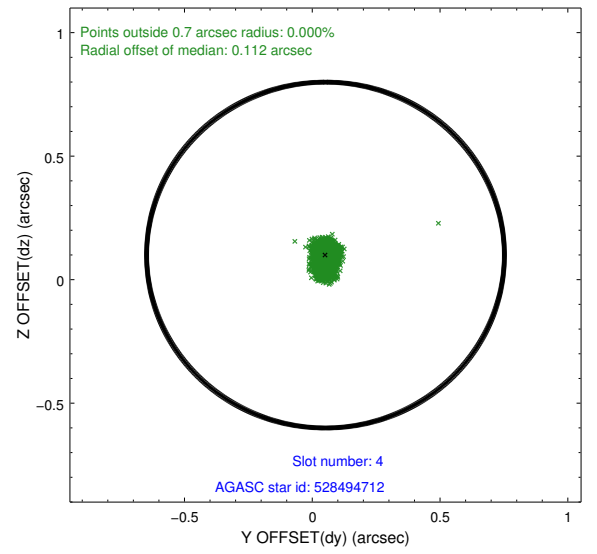
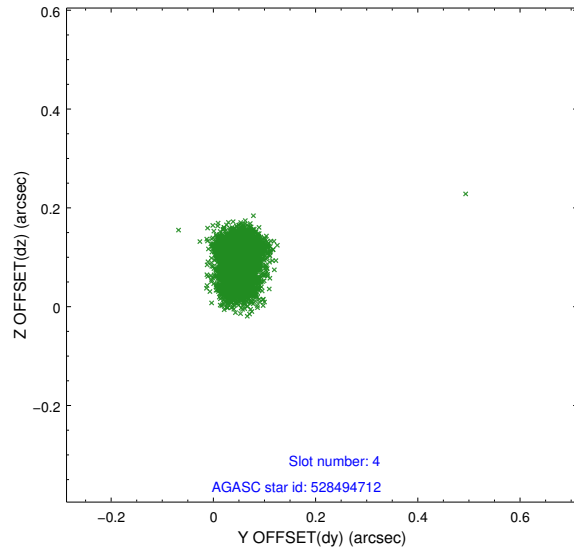
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2136	-0.018	-0.024	0.006	0.011	0.000000	0.000000	-754.01	-1726.64
1	FID	ACIS-S-4	7.21	2135	0.002	-0.002	0.007	0.012	0.000000	0.000000	2159.01	181.21
2	FID	ACIS-S-6	7.11	2135	-0.011	0.033	0.007	0.013	0.000000	0.000000	408.79	819.36
3	GUIDE	528491992	7.02	4271	0.064	0.053	0.050	0.077	26.411567	61.039674	-1924.01	-1599.20
4	GUIDE	528494712	7.06	4272	0.052	0.100	0.043	0.075	26.522817	60.993527	-1896.41	-1853.46
5	GUIDE	528492920	6.81	4272	0.009	-0.043	0.048	0.078	26.048398	61.849802	-377.66	950.54
6	GUIDE	529024856	8.79	4272	0.050	-0.029	0.062	0.100	26.625085	62.150671	1074.77	1072.58
7	GUIDE	529021512	7.53	4271	-0.174	-0.078	0.045	0.069	26.799580	62.568321	2312.05	1975.47

2.4 Star Slots

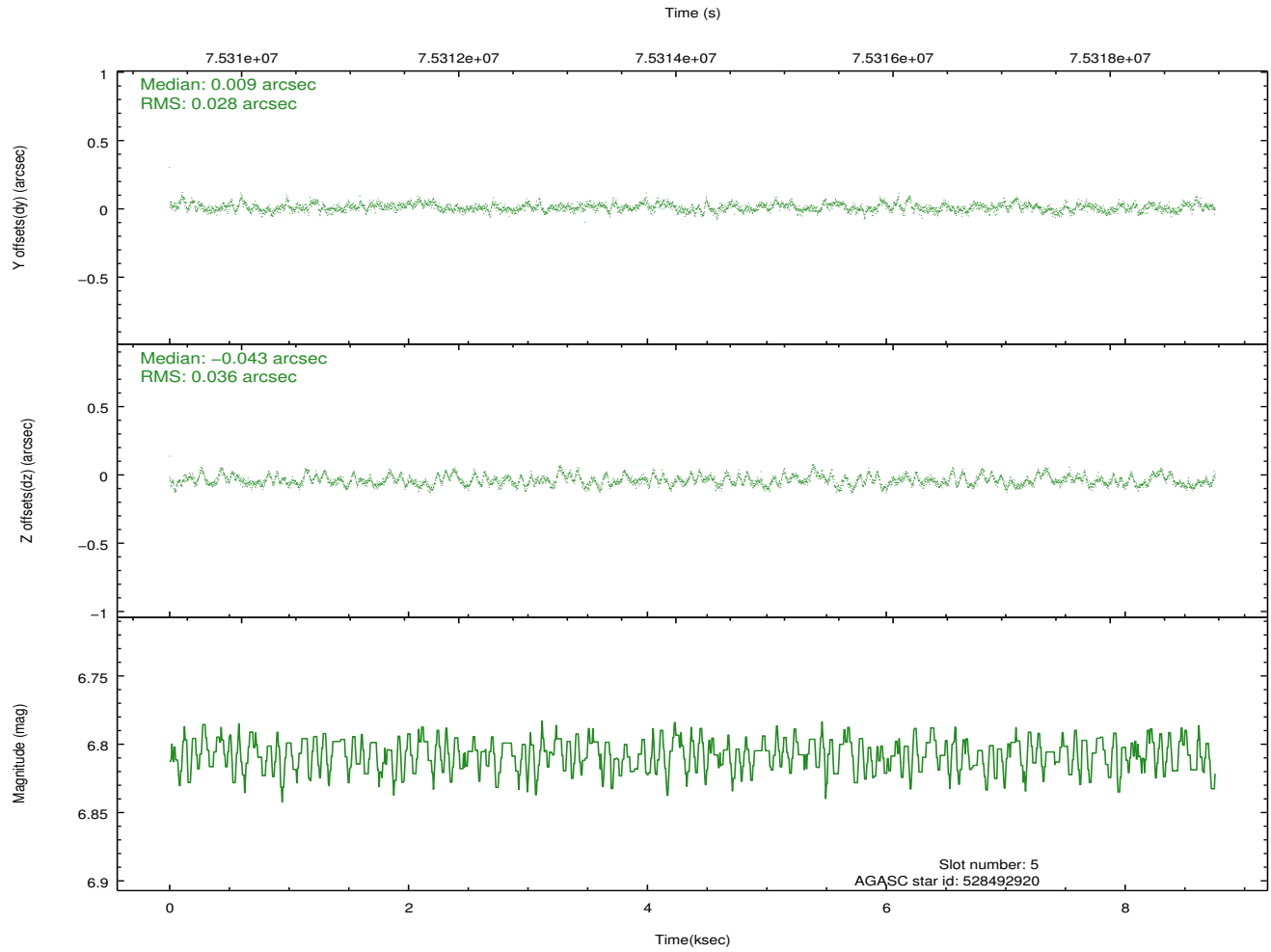
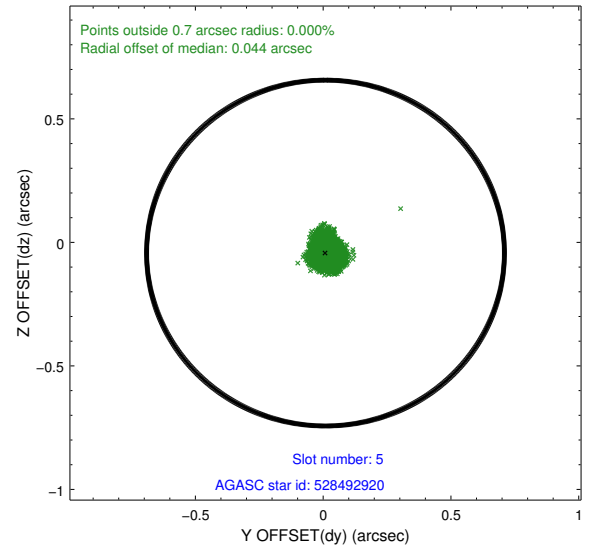
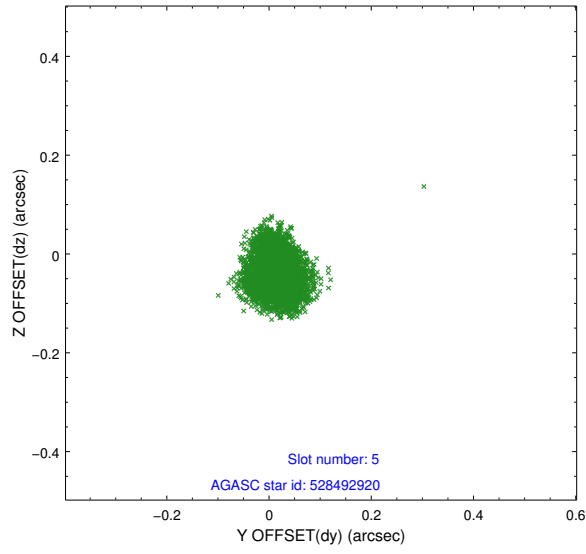
2.4.1 Slot 3



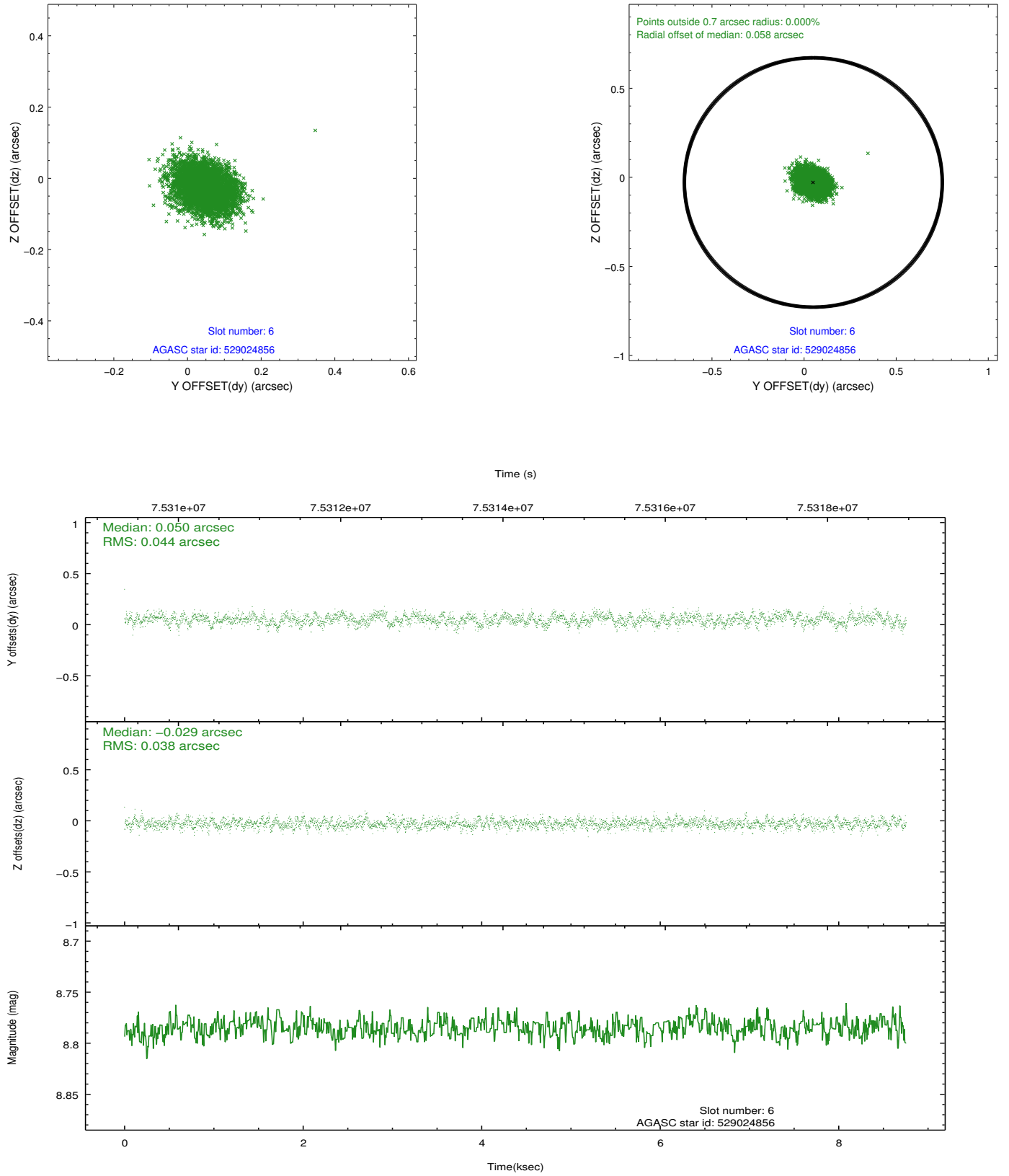
2.4.2 Slot 4



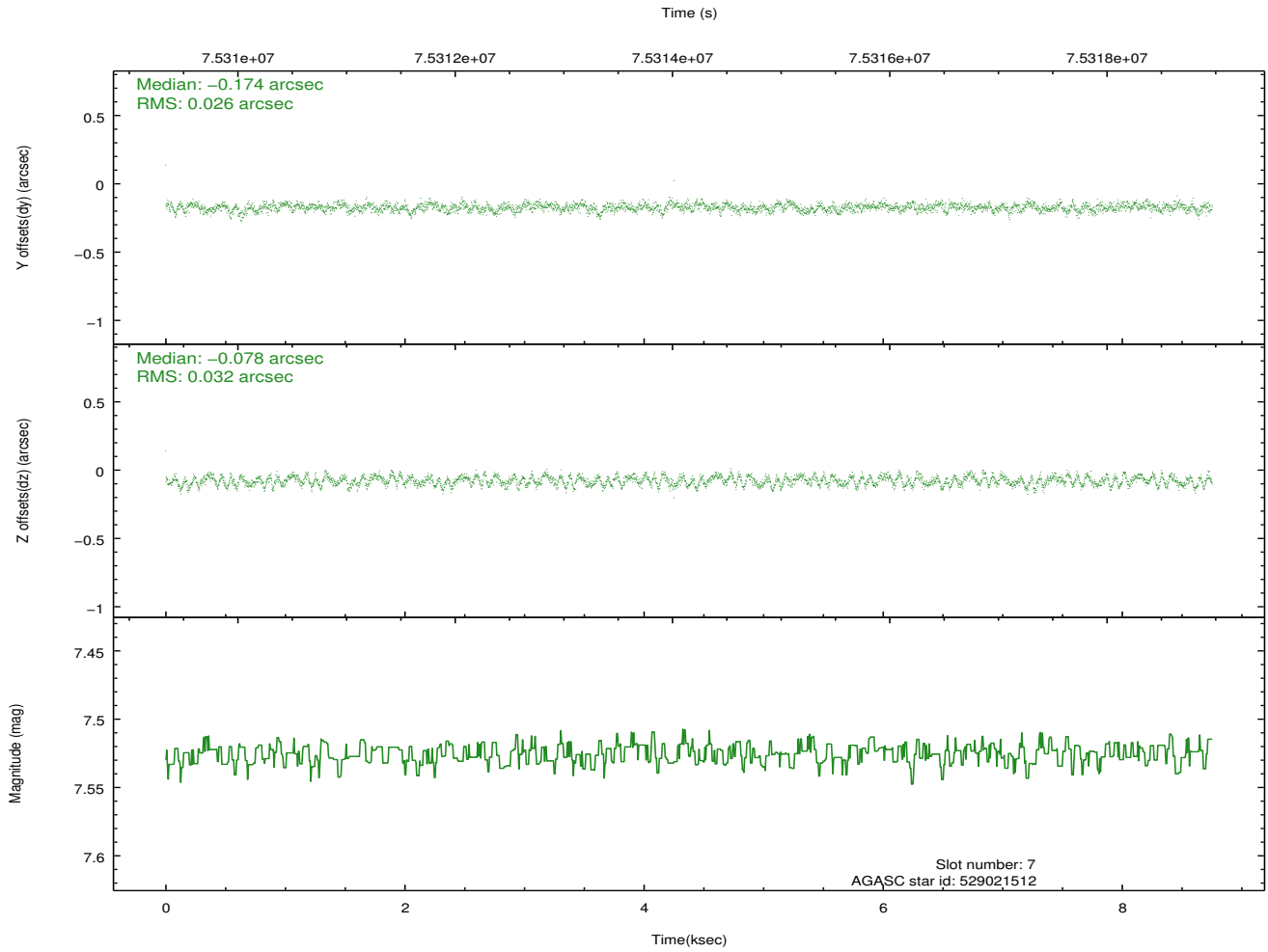
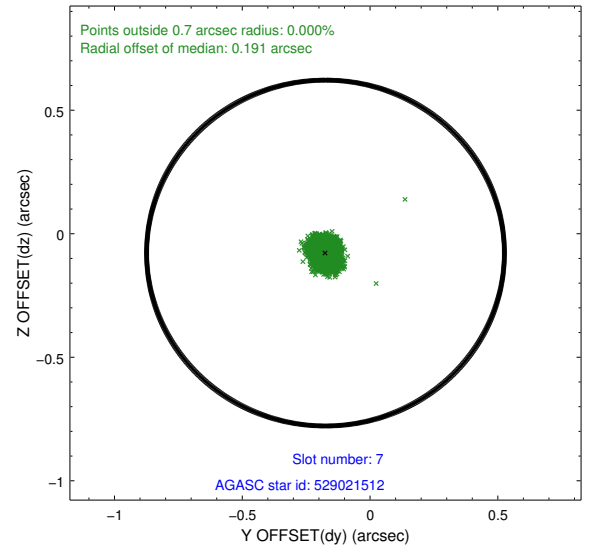
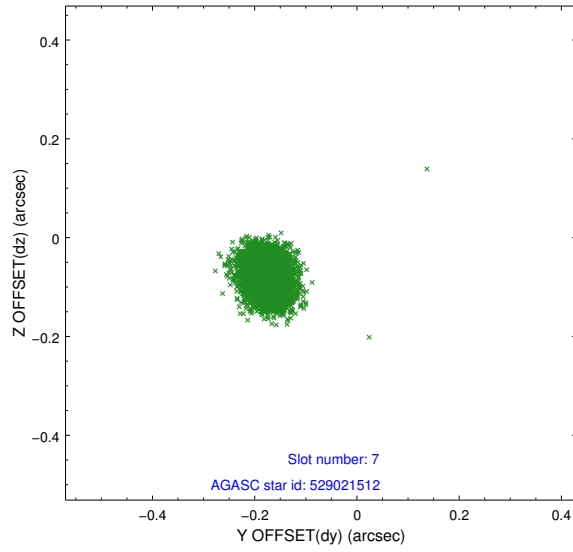
2.4.3 Slot 5



2.4.4 Slot 6

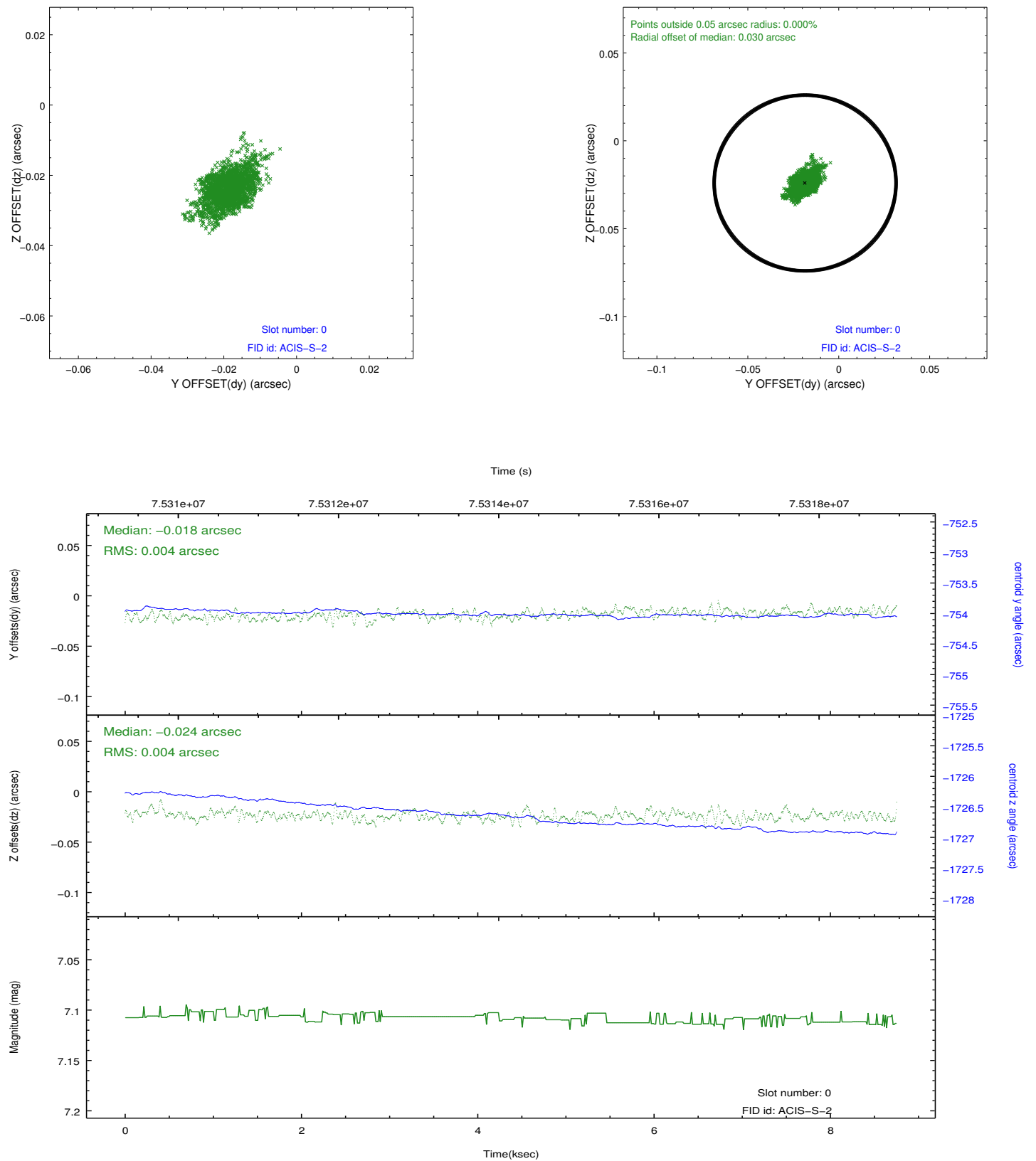


2.4.5 Slot 7

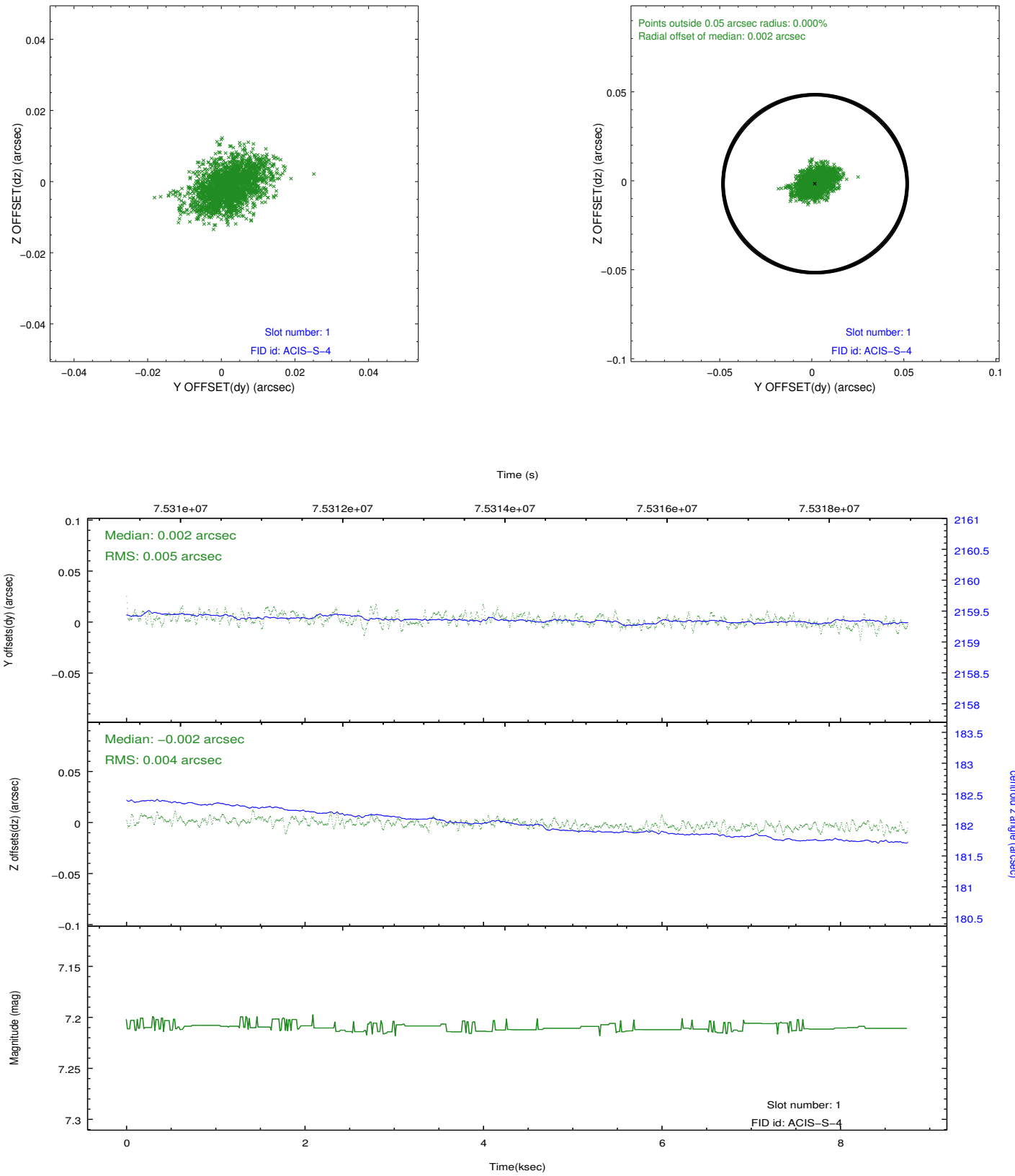


2.5 FID Slots

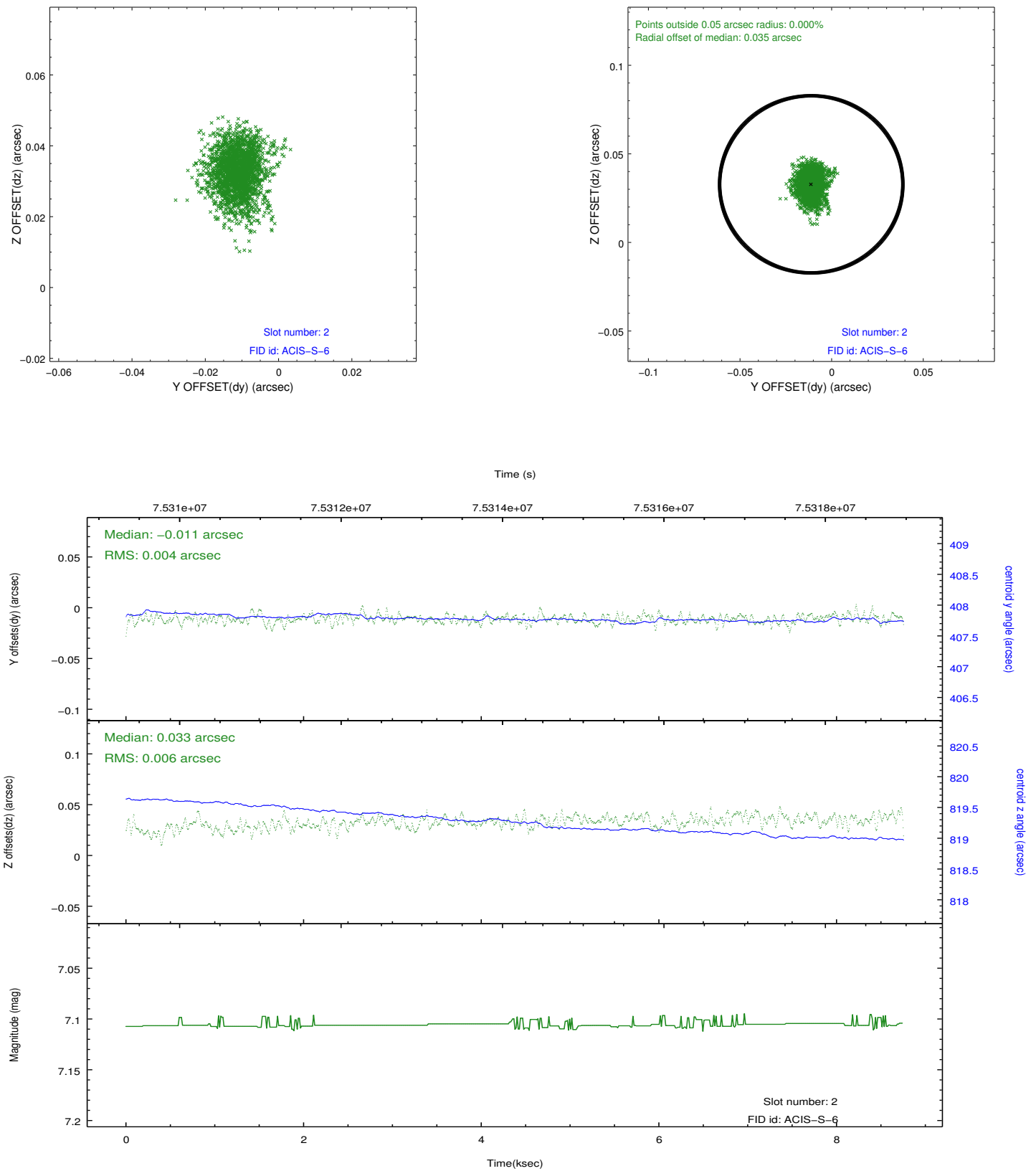
2.5.1 Slot 0



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)	2012.08.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.843

A.2 Comments