

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 724 - L2 Version 5
Chandra X-Ray Center

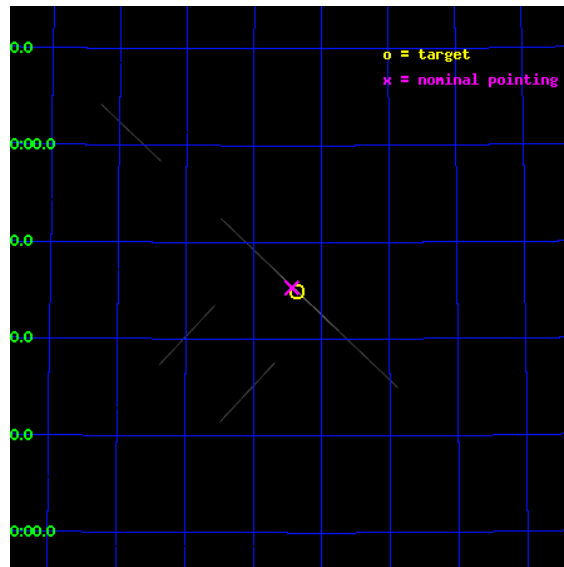
L2 Processing Date : Aug 28 2012

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1 Front

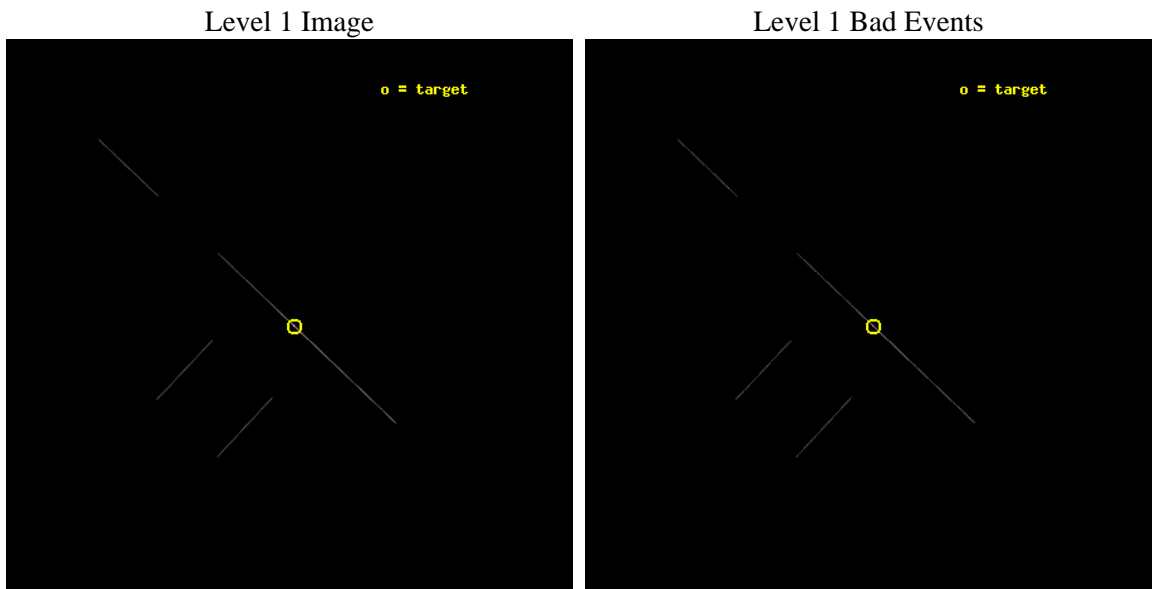
seq_num	500020	Sequence number
obs_id	724	Observation id
title	A STUDY OF ANOMALOUS X-RAY PULSARS	Proposal title
observer	Dr. CHRYSSA KOUVELIOTOU	Principal investigator
object	4U 0142+61	Source name
ra_targ	26.591667	Observer's specified target RA [deg]
dec_targ	61.75	Observer's specified target Dec [deg]
ra_nom	26.609318231812	Nominal RA [deg]
dec_nom	61.755356097782	Nominal Dec [deg]
roll_nom	43.306692536627	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5942.0	Sum of GTIs [s]
livetime	5918.7890625	Livetime [s]
ontime2	5940.5415493101	Sum of GTIs [s]
ontime3	5942.0	Sum of GTIs [s]
ontime4	5942.0	Sum of GTIs [s]
ontime6	5942.0	Sum of GTIs [s]
ontime7	5942.0	Sum of GTIs [s]
ontime8	5942.0	Sum of GTIs [s]
l2events	190443	Number of level 2 events



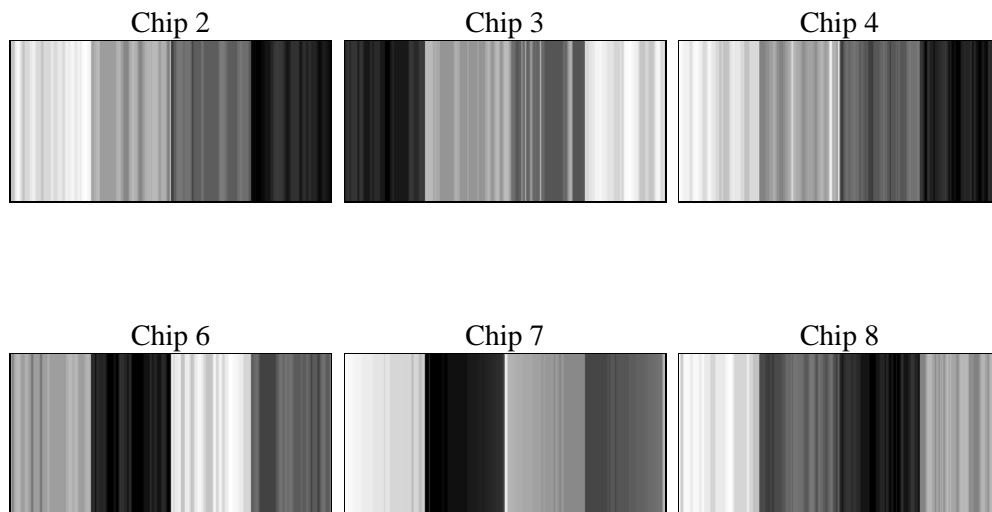
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5942.0	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	5940.5415493101	Sum of GTIs [s]
date	2012-08-28T04:25:50	Date and time of file creation	ontime3	5942.0	Sum of GTIs [s]
revision	5	Processing version of data	ontime4	5942.0	Sum of GTIs [s]
			ontime6	5942.0	Sum of GTIs [s]
			ontime7	5942.0	Sum of GTIs [s]
			ontime8	5942.0	Sum of GTIs [s]
			l1events	222564	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8
level 1 events	7998	8403	8537	9818	168652	19156
rejected events	1210	1284	1173	1396	9584	1992
rejected %	15%	15%	13%	14%	5%	10%

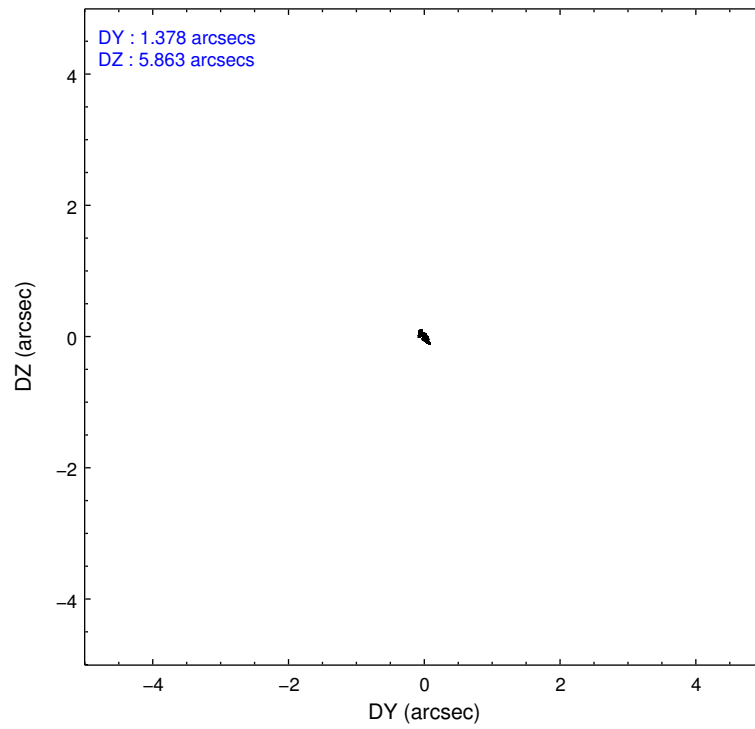
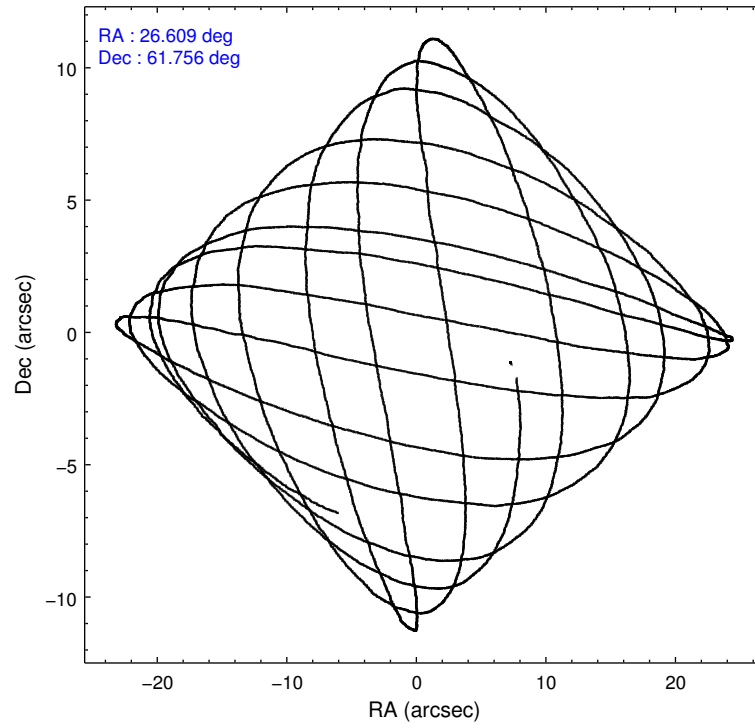
	ccd 2	ccd 3	ccd 4	ccd 6	ccd 7	ccd 8
grade 0 events	928	870	876	1081	41057	3977
	11%	10%	10%	11%	24%	20%
grade 1 events	31	28	14	35	1192	64
	0%	0%	0%	0%	0%	0%
grade 2 events	2436	2624	2708	3749	42431	4484
	30%	31%	31%	38%	25%	23%
grade 3 events	1134	1305	1198	1066	18050	2530
	14%	15%	14%	10%	10%	13%
grade 4 events	1067	1032	1263	1059	17493	2378
	13%	12%	14%	10%	10%	12%
grade 5 events	1175	1255	1156	1358	8305	1920
	14%	14%	13%	13%	4%	10%
grade 6 events	1227	1289	1322	1470	40124	3803
	15%	15%	15%	14%	23%	19%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

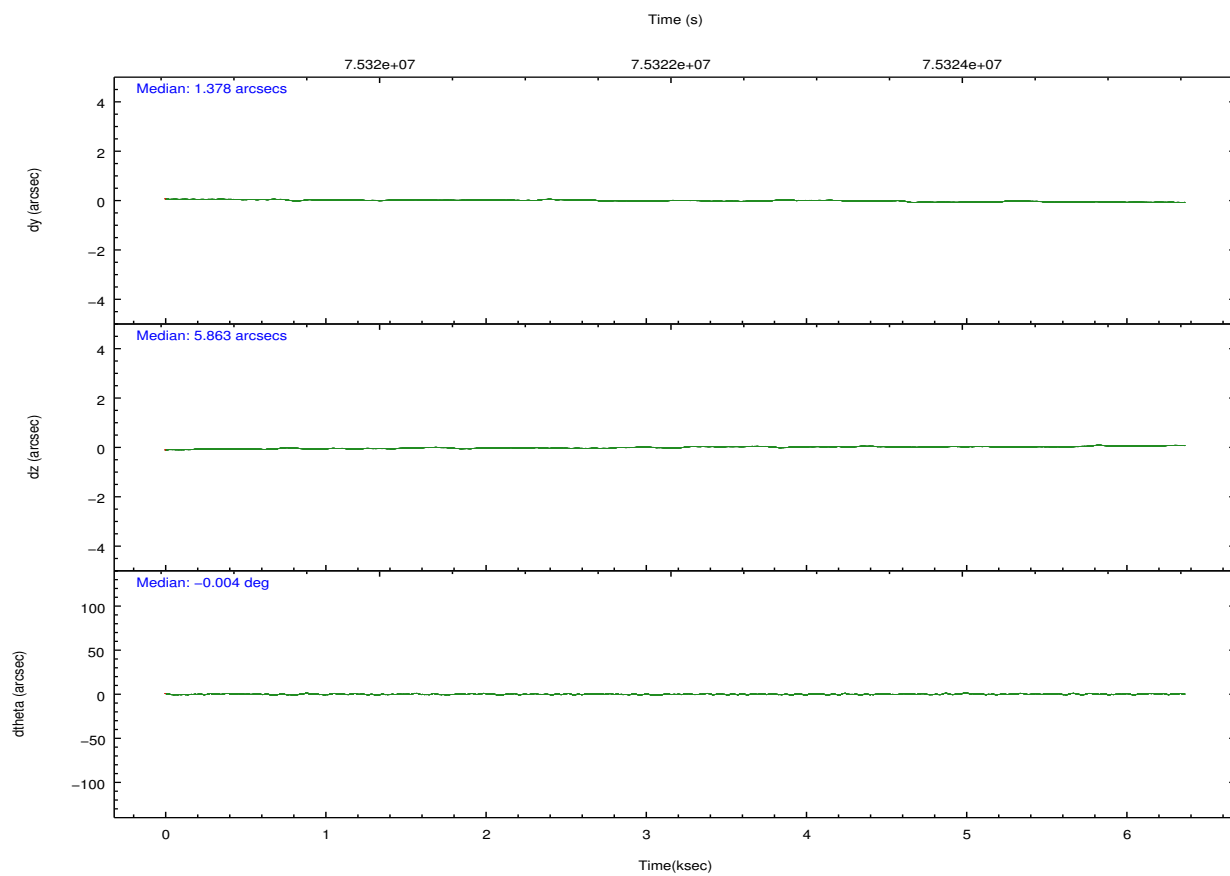
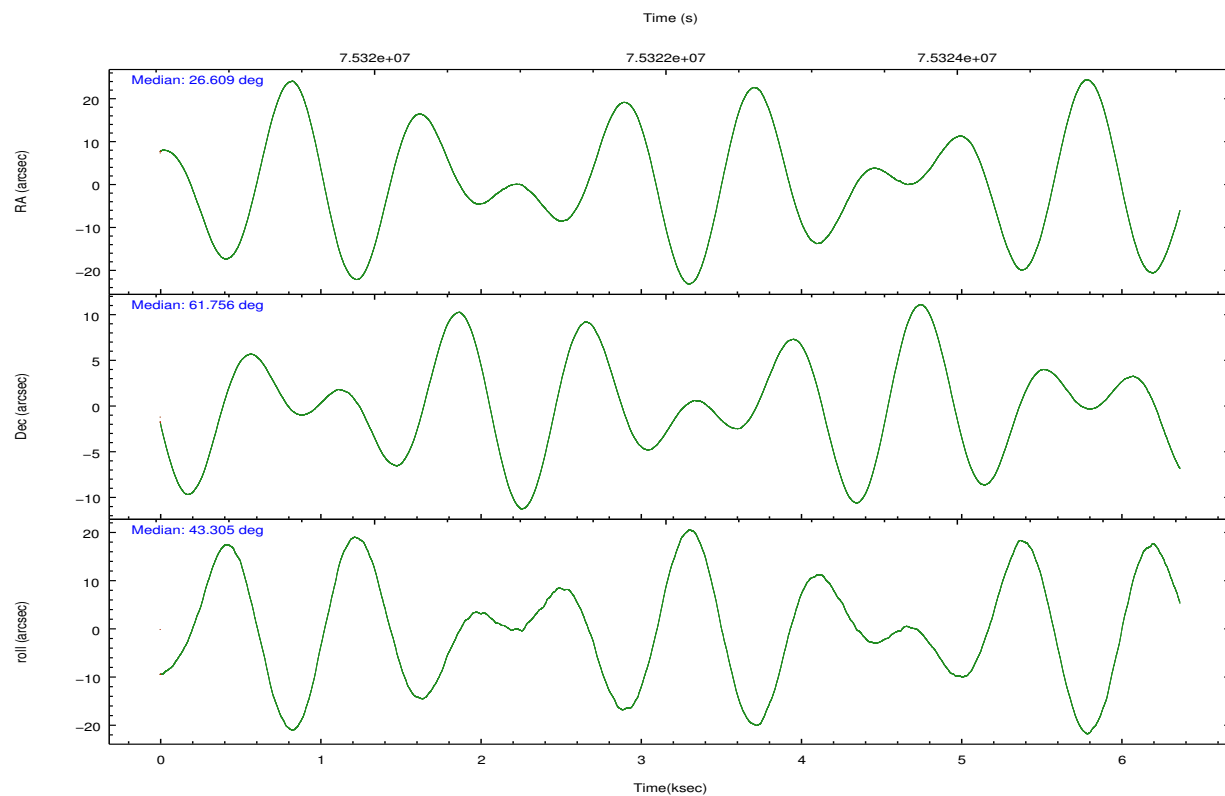
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-234678	ACIS-234678
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	26.593009	26.60931823181205
[deg] Pointing Dec	61.729107	61.75535609778158
[deg] Pointing Roll	43.164441	43.30669253662714
[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)	75320211.184000	75318665.099171
Observation start date	2000-05-21T18:15:47	2000-05-21T17:51:05
[s] Observation end time (MET)	75325211.184000	75325943.111939
Observation end date	2000-05-21T19:39:07	2000-05-21T19:52:23
Read mode	CONTINUOUS	CONTINUOUS

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	0

2.3 Aspect



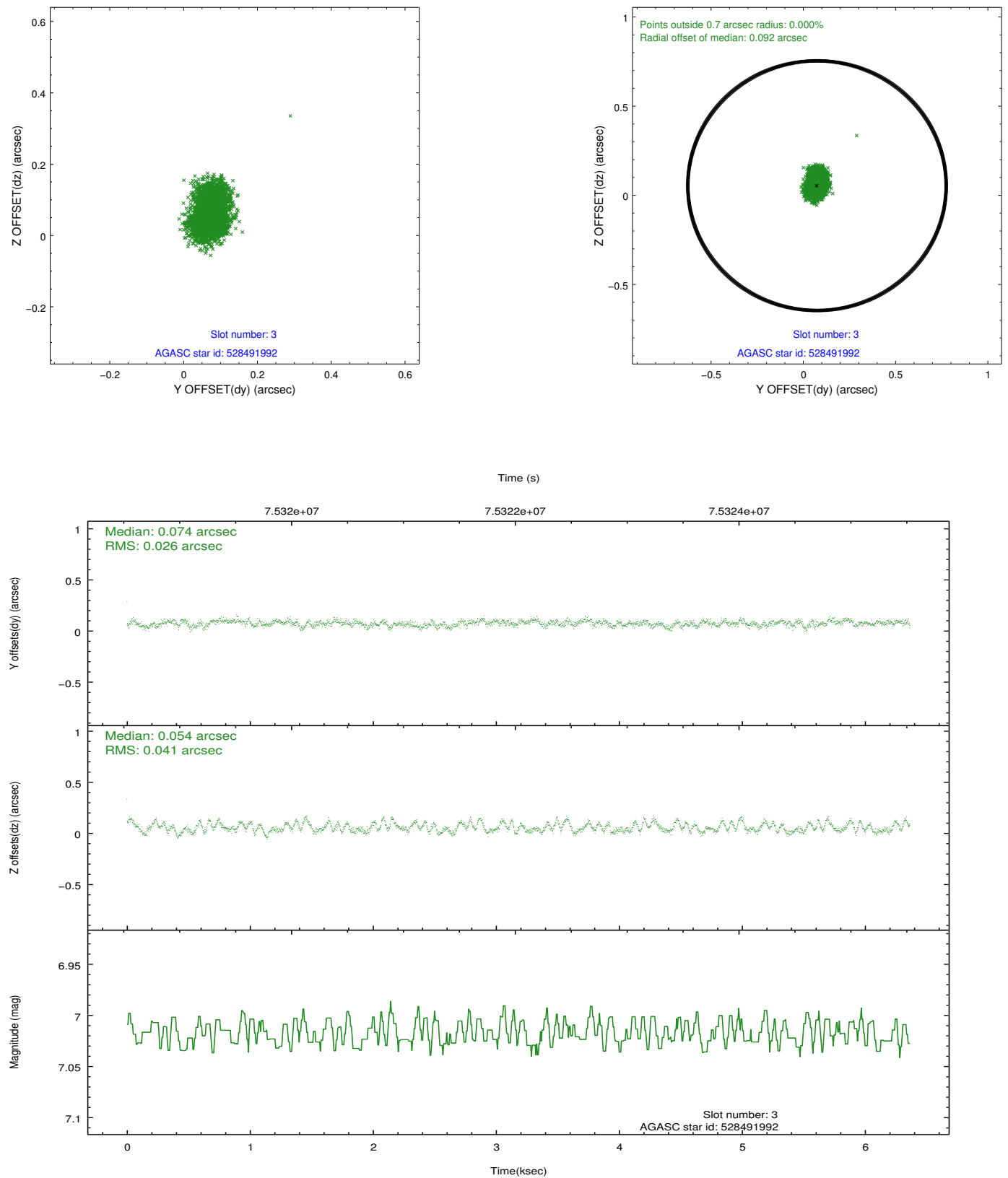


Slot Statistics

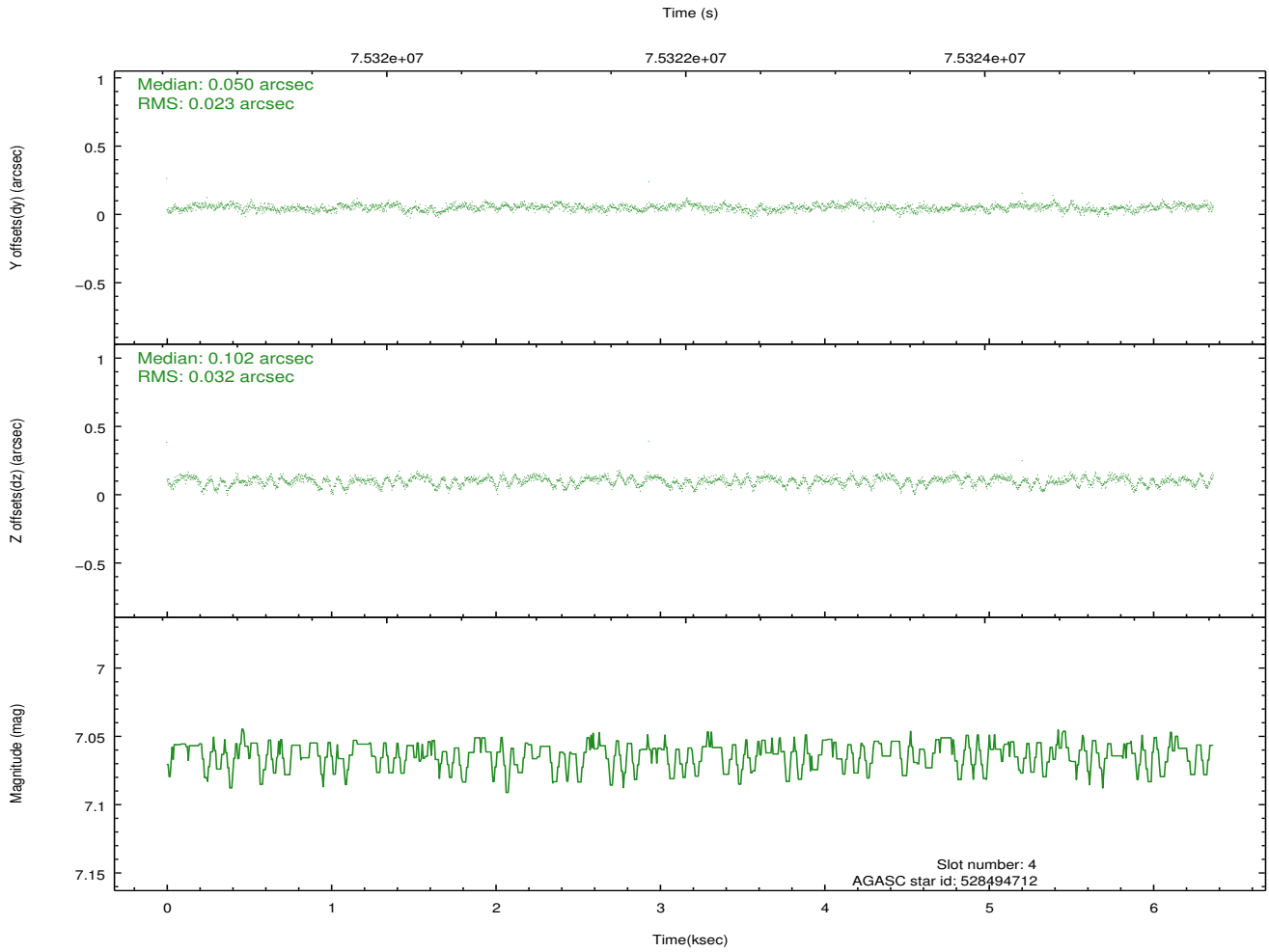
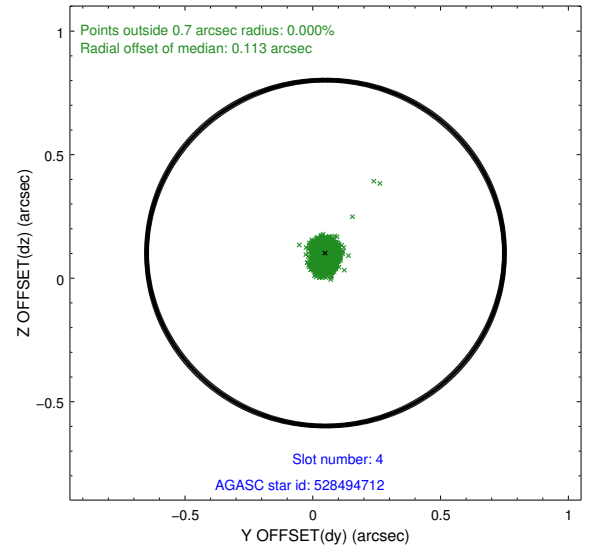
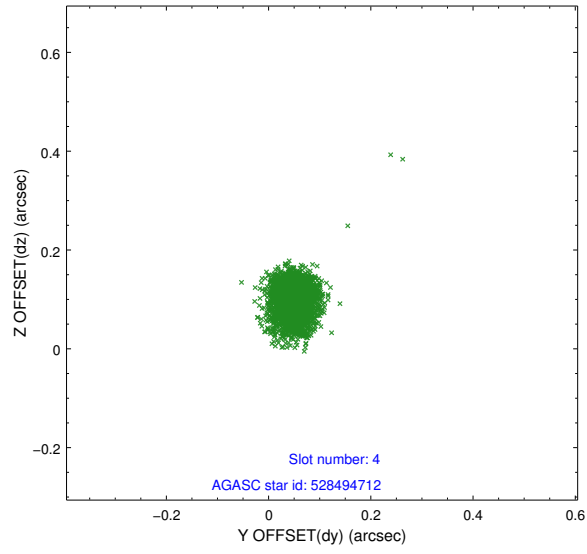
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1552	-0.015	-0.023	0.005	0.009	0.000000	0.000000	-753.99	-1727.02
1	FID	ACIS-S-4	7.21	1551	-0.001	-0.005	0.007	0.011	0.000000	0.000000	2158.89	180.53
2	FID	ACIS-S-6	7.10	1552	-0.012	0.036	0.007	0.012	0.000000	0.000000	409.19	819.02
3	GUIDE	528491992	7.02	3105	0.074	0.054	0.052	0.085	26.411567	61.039674	-1928.09	-1594.23
4	GUIDE	528494712	7.06	3105	0.050	0.102	0.040	0.067	26.522817	60.993527	-1901.33	-1848.70
5	GUIDE	528492920	6.80	3105	0.021	-0.047	0.047	0.076	26.048398	61.849802	-375.29	951.32
6	GUIDE	529024856	8.79	3105	0.036	-0.029	0.058	0.093	26.625085	62.150671	1077.56	1069.83
7	GUIDE	529021512	7.52	3104	-0.180	-0.081	0.043	0.071	26.799580	62.568321	2317.31	1969.52

2.4 Star Slots

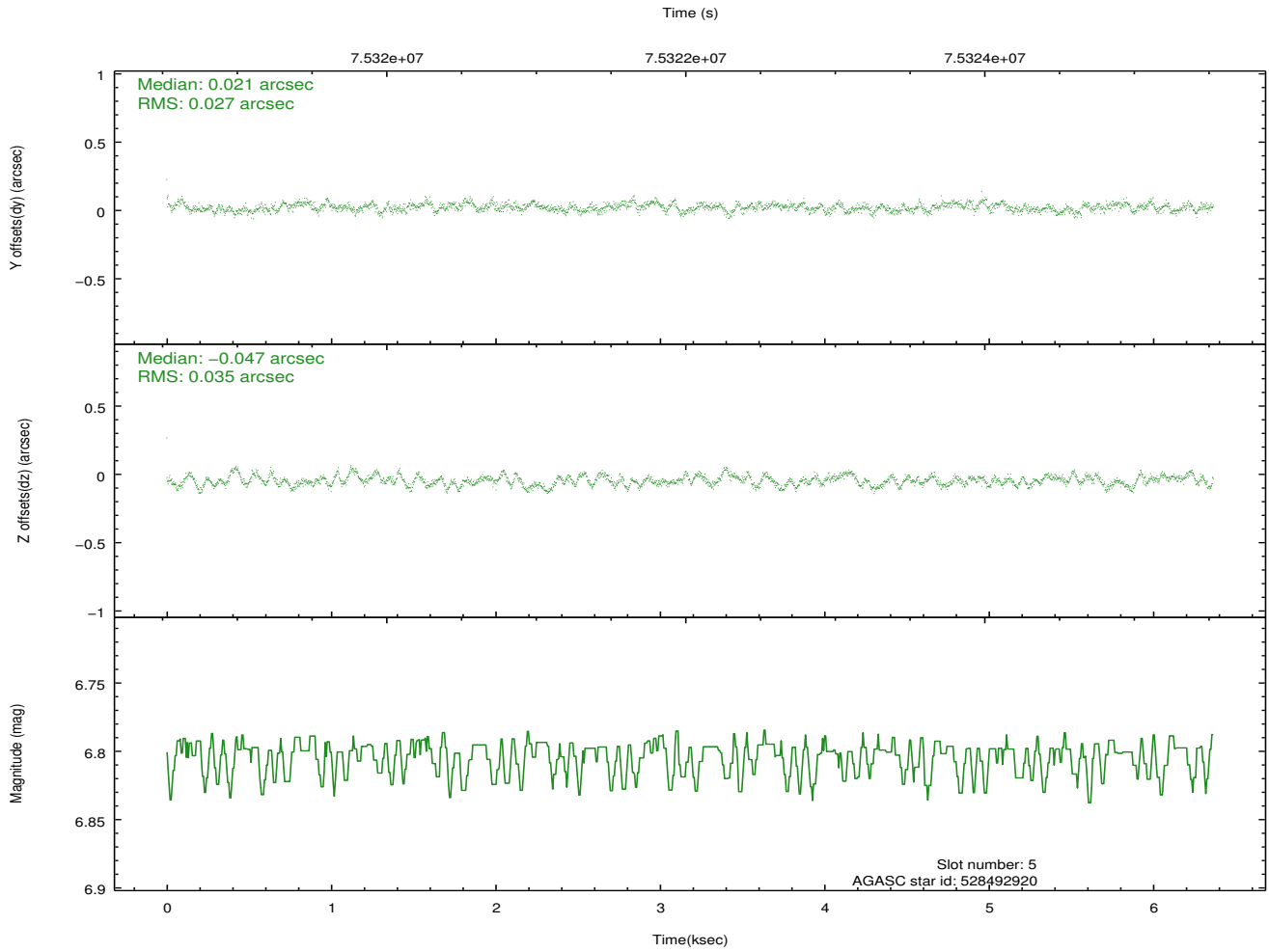
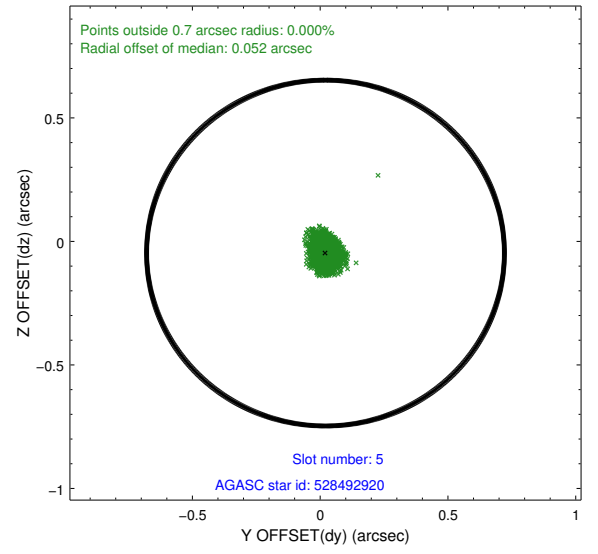
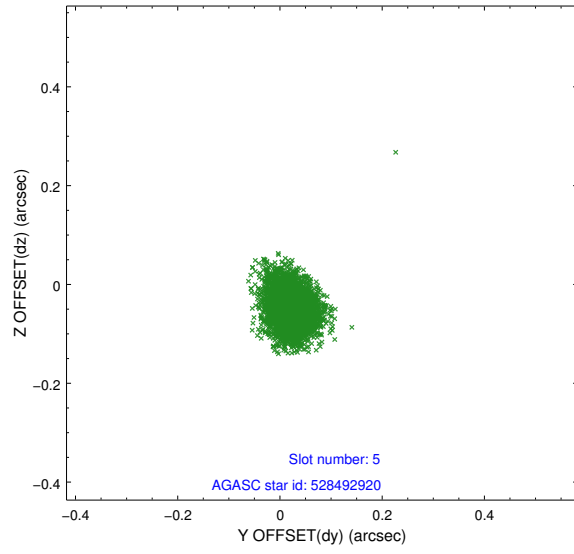
2.4.1 Slot 3



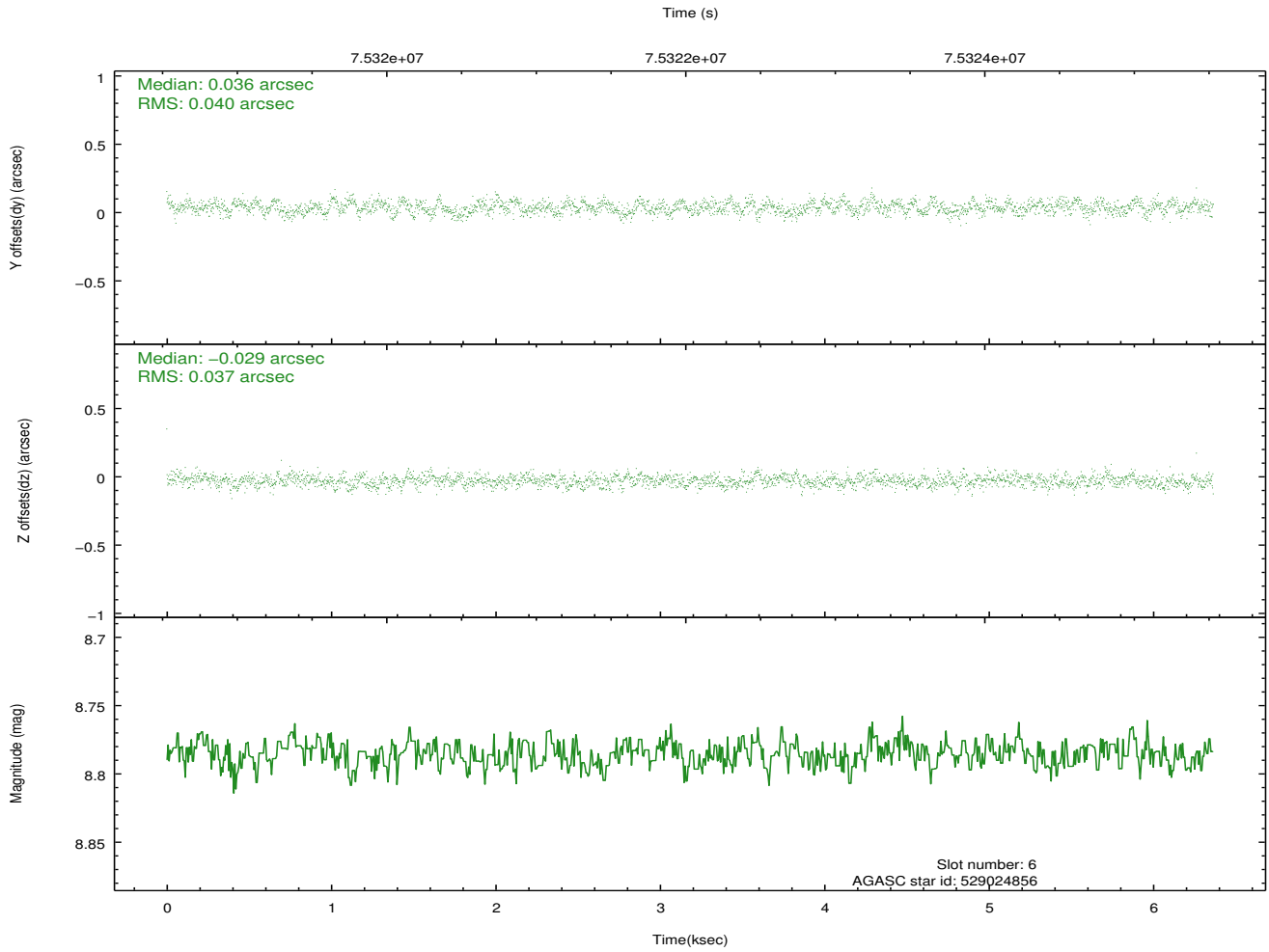
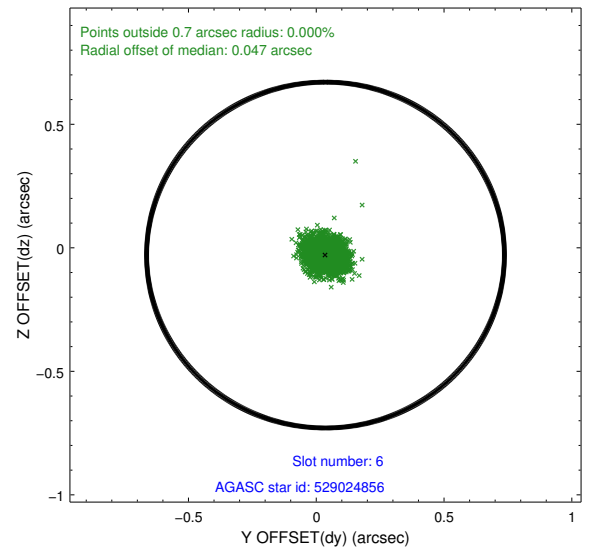
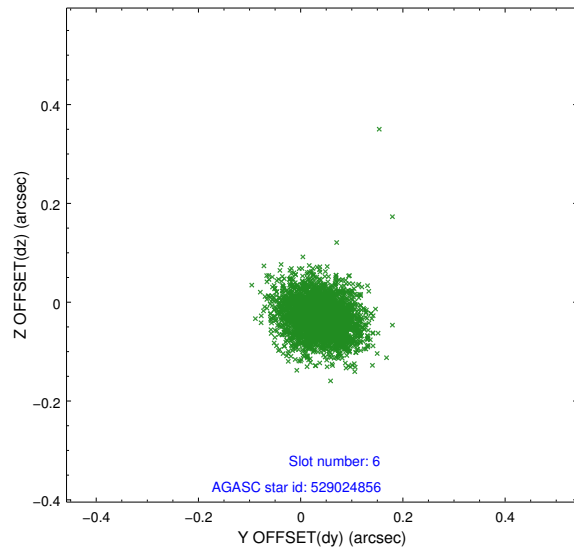
2.4.2 Slot 4



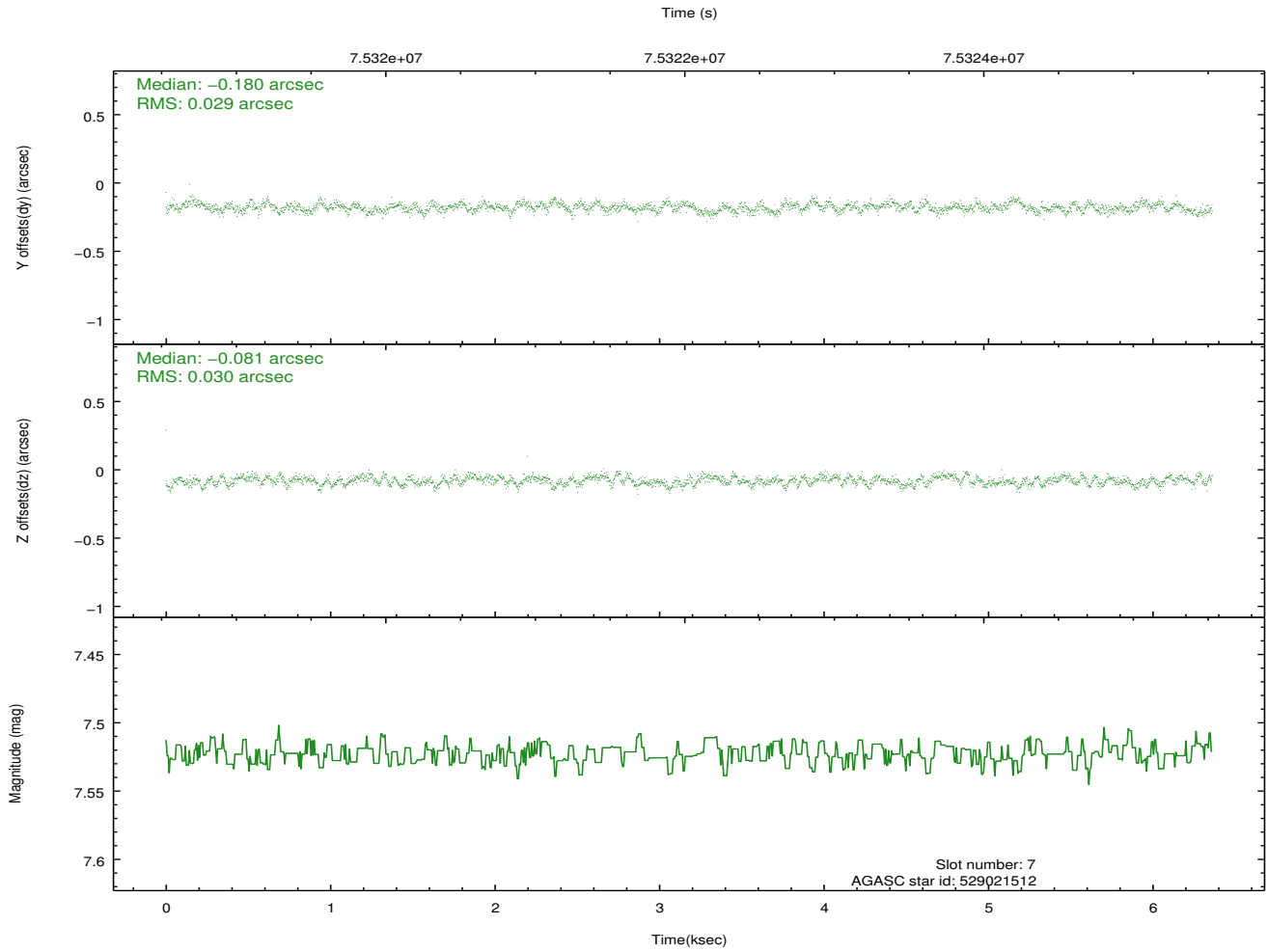
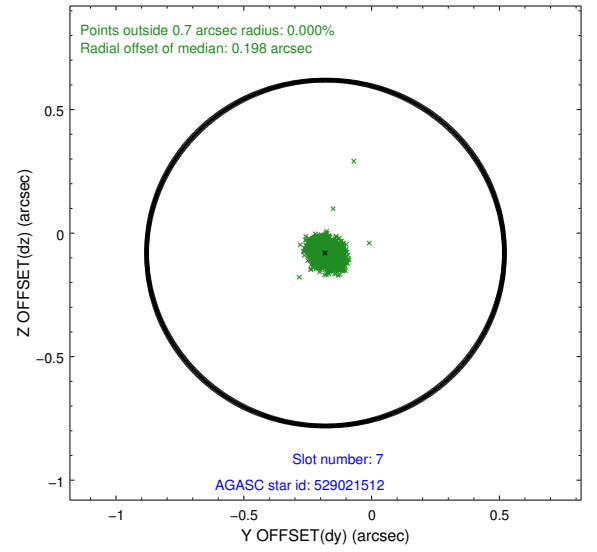
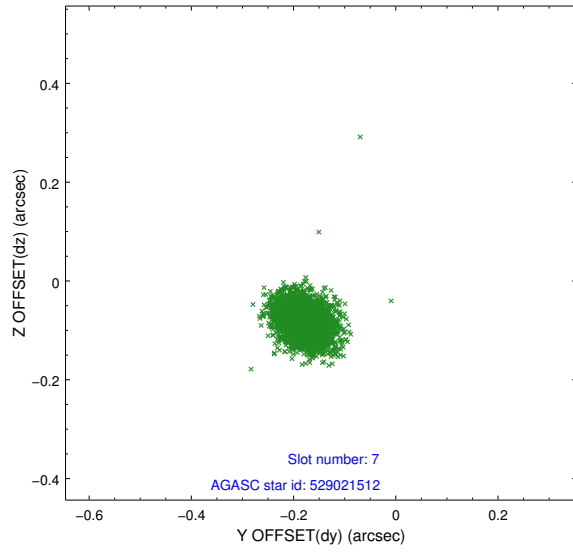
2.4.3 Slot 5



2.4.4 Slot 6

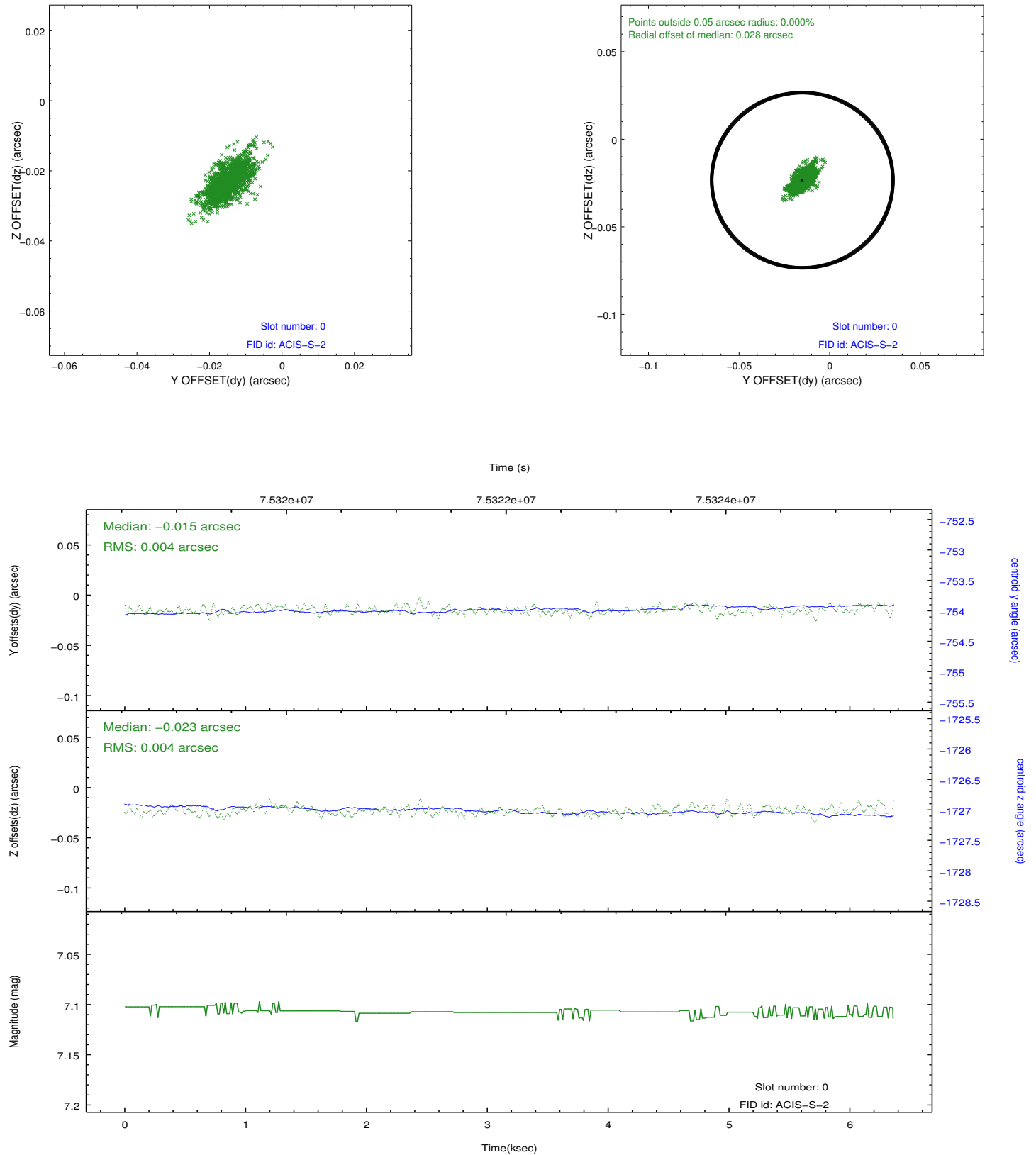


2.4.5 Slot 7

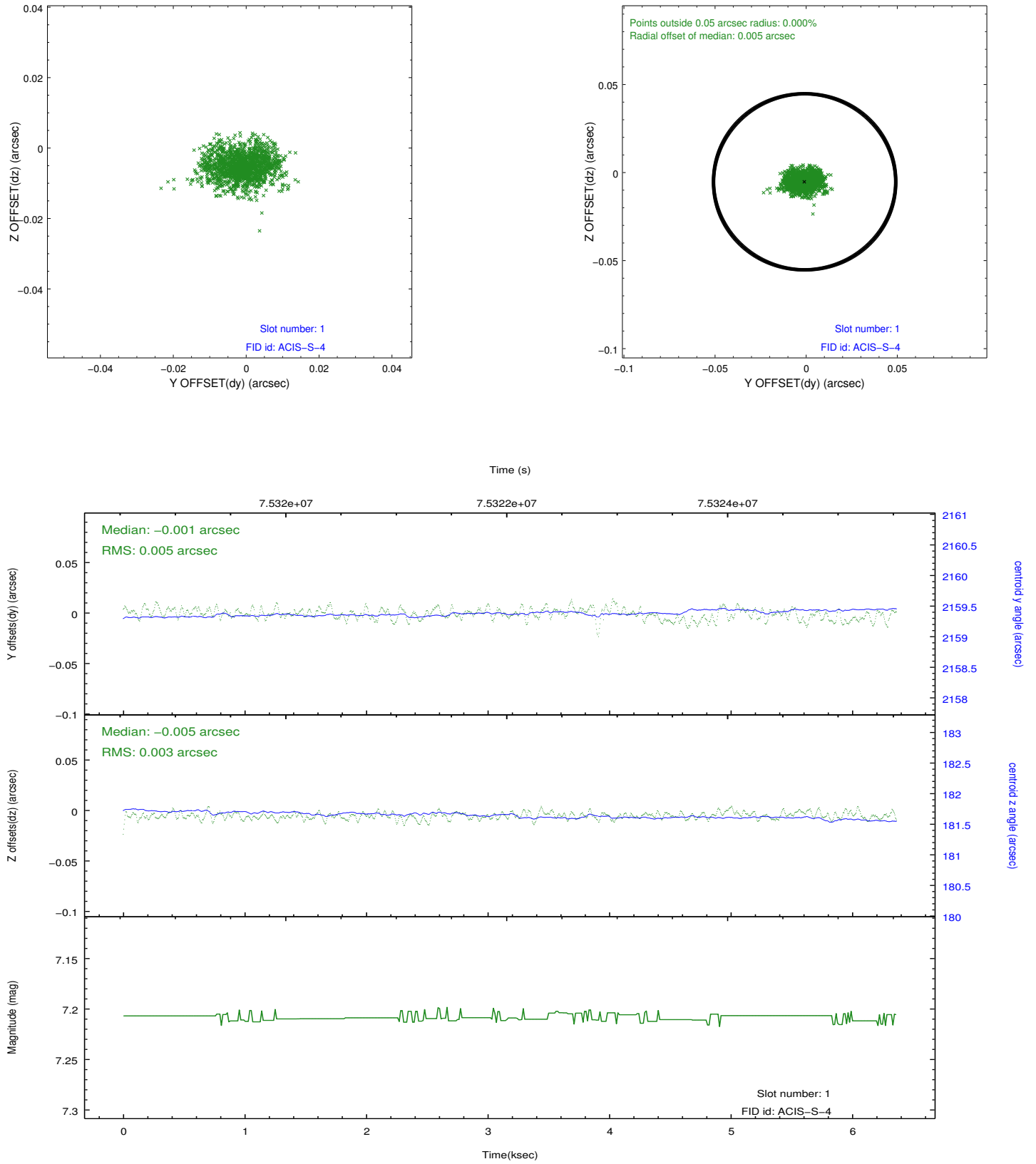


2.5 FID Slots

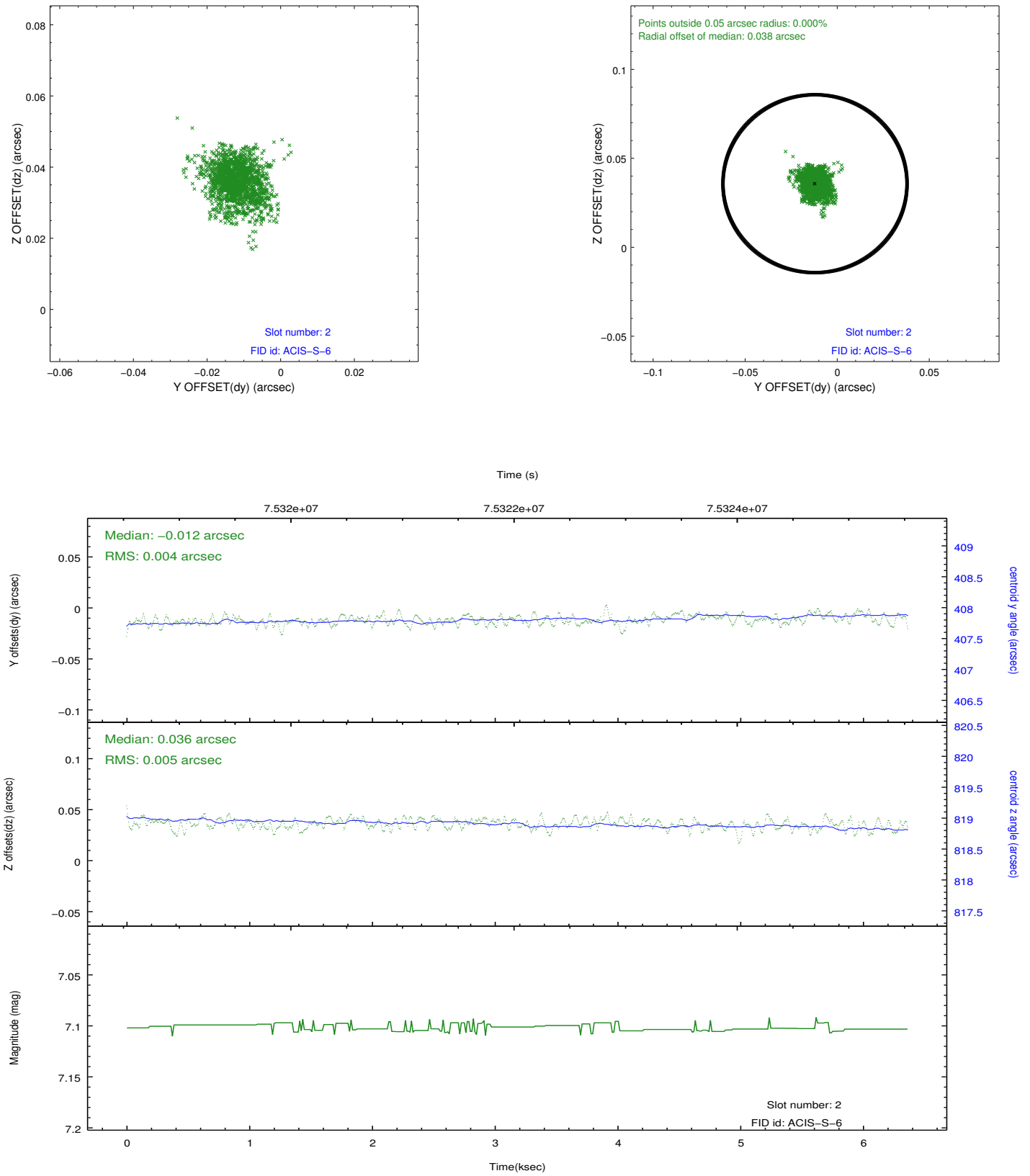
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.944

A.2 Comments