

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1025 - L2 Version 6
Chandra X-Ray Center

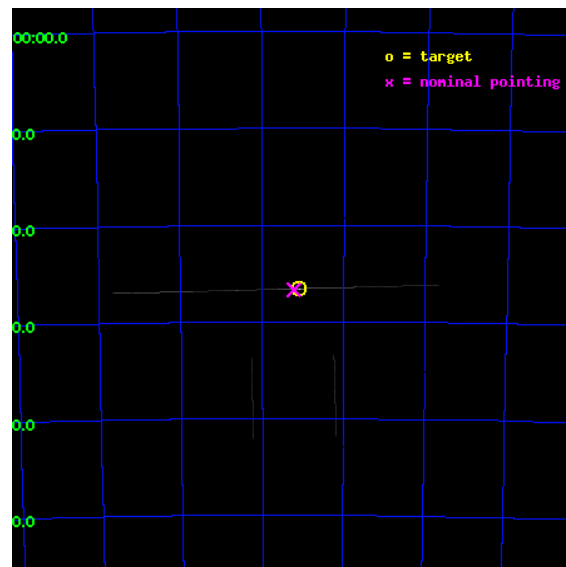
L2 Processing Date : Sep 2 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

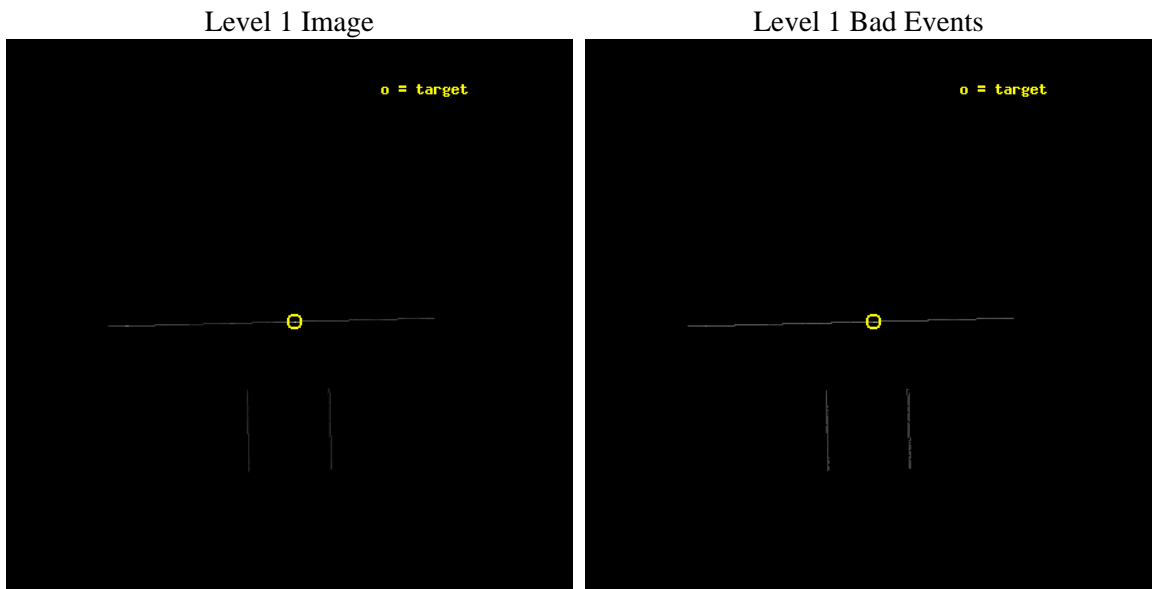
seq_num	400103	Sequence number
obs_id	1025	Observation id
title	HIGH RESOLUTION UV/X-RAY SPECTROSCOPY OF SMC X-1	Proposal title
observer	Dr. Saeqa Vrtilek	Principal investigator
object	SMC X-1	Source name
ra_targ	19.271667	Observer's specified target RA [deg]
dec_targ	-73.442944	Observer's specified target Dec [deg]
ra_nom	19.305649267114	Nominal RA [deg]
dec_nom	-73.444941760241	Nominal Dec [deg]
roll_nom	358.48479387666	Nominal Roll [deg]
revision	6	Processing version of data
ontime	6128.3726772219	Sum of GTIs [s]
livetime	6104.4337214515	Livetime [s]
ontime2	6128.3718213588	Sum of GTIs [s]
ontime3	6128.37316598	Sum of GTIs [s]
ontime5	6129.8317408115	Sum of GTIs [s]
ontime6	6129.8317400962	Sum of GTIs [s]
ontime7	6128.3726772219	Sum of GTIs [s]
ontime8	6128.3726769388	Sum of GTIs [s]
l2events	421882	Number of level 2 events



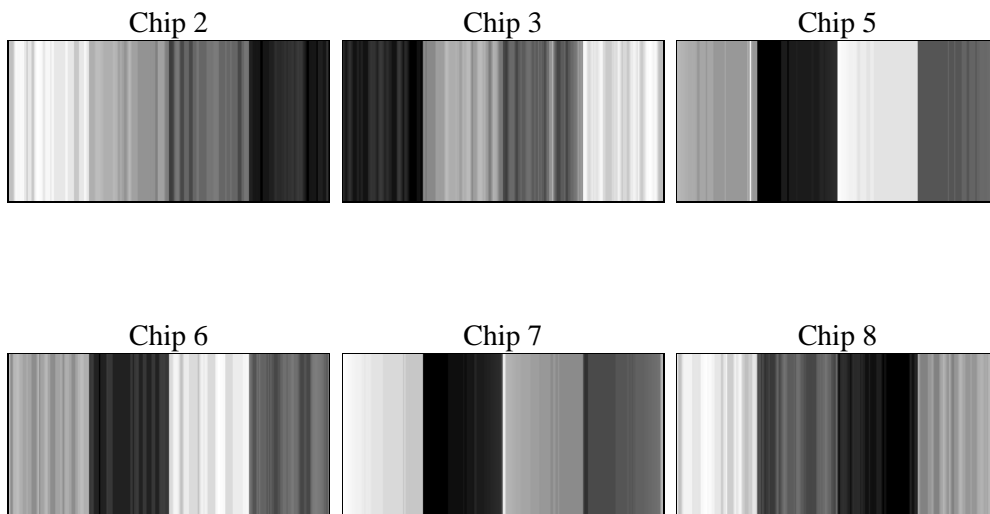
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6128.3726772219	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	6128.3718213588	Sum of GTIs [s]
date	2012-09-02T09:41:01	Date and time of file creation	ontime3	6128.37316598	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	6129.8317408115	Sum of GTIs [s]
			ontime6	6129.8317400962	Sum of GTIs [s]
			ontime7	6128.3726772219	Sum of GTIs [s]
			ontime8	6128.3726769388	Sum of GTIs [s]
			l1events	536649	Number of level 1 events

2.1.4 Events

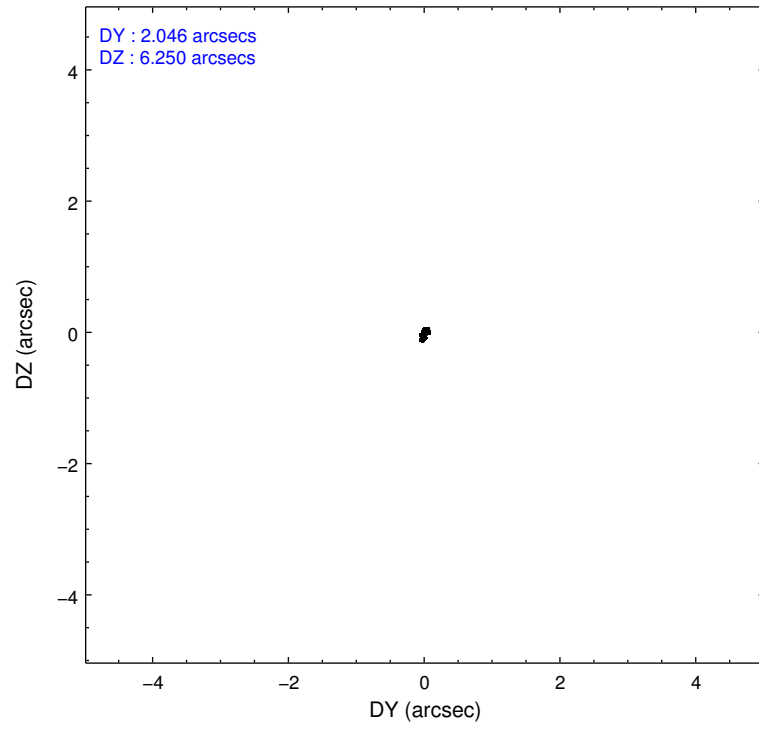
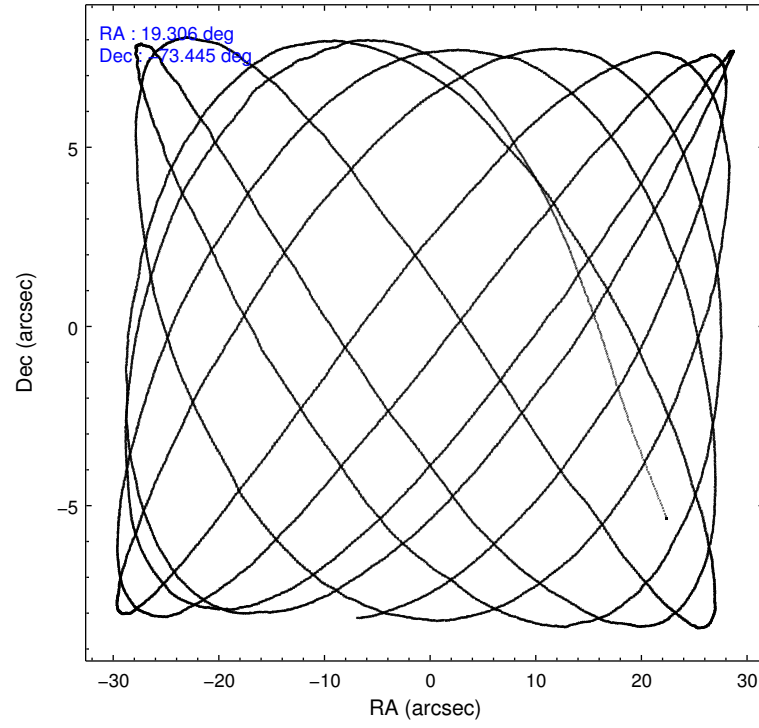
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	8666	9843	44535	13636	442213	17756
rejected events	2265	2554	10081	4832	68062	4254
rejected %	26%	25%	22%	35%	15%	23%

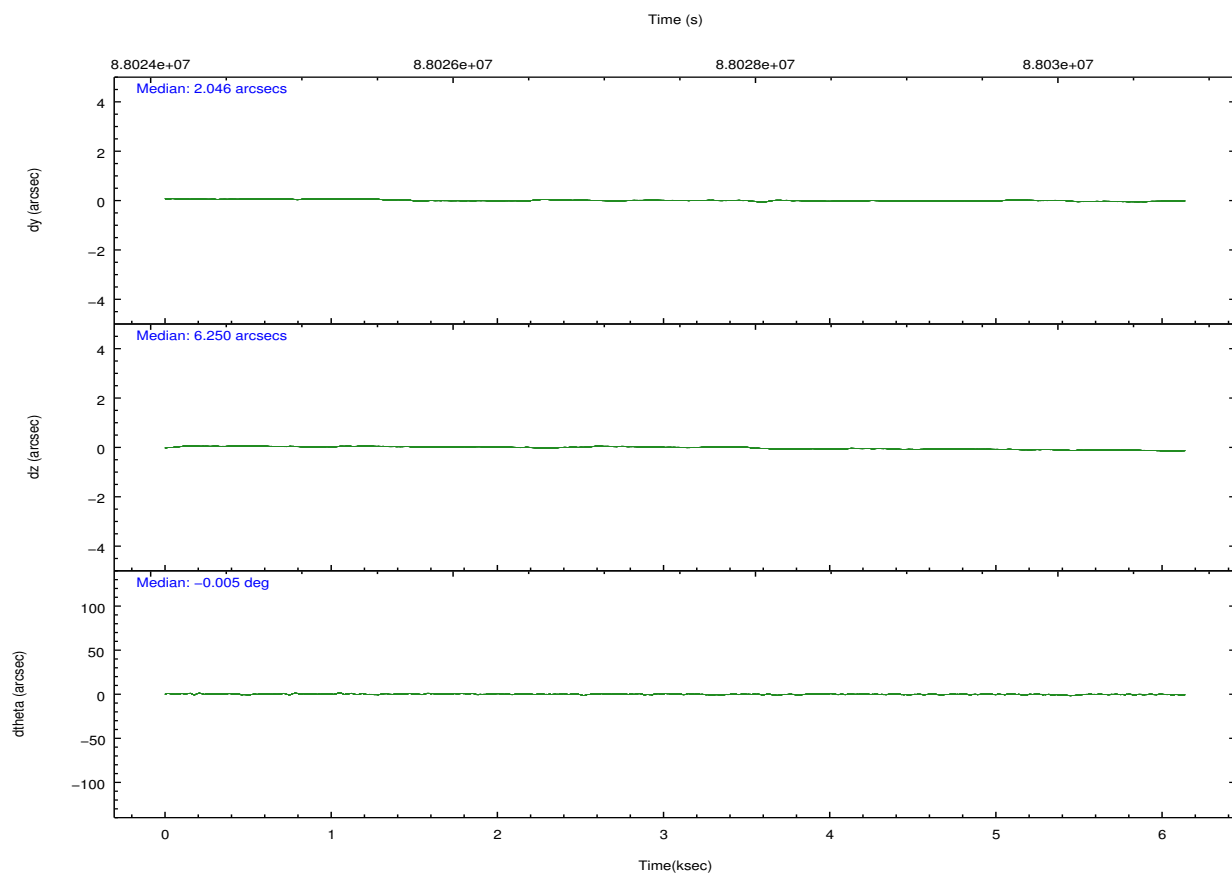
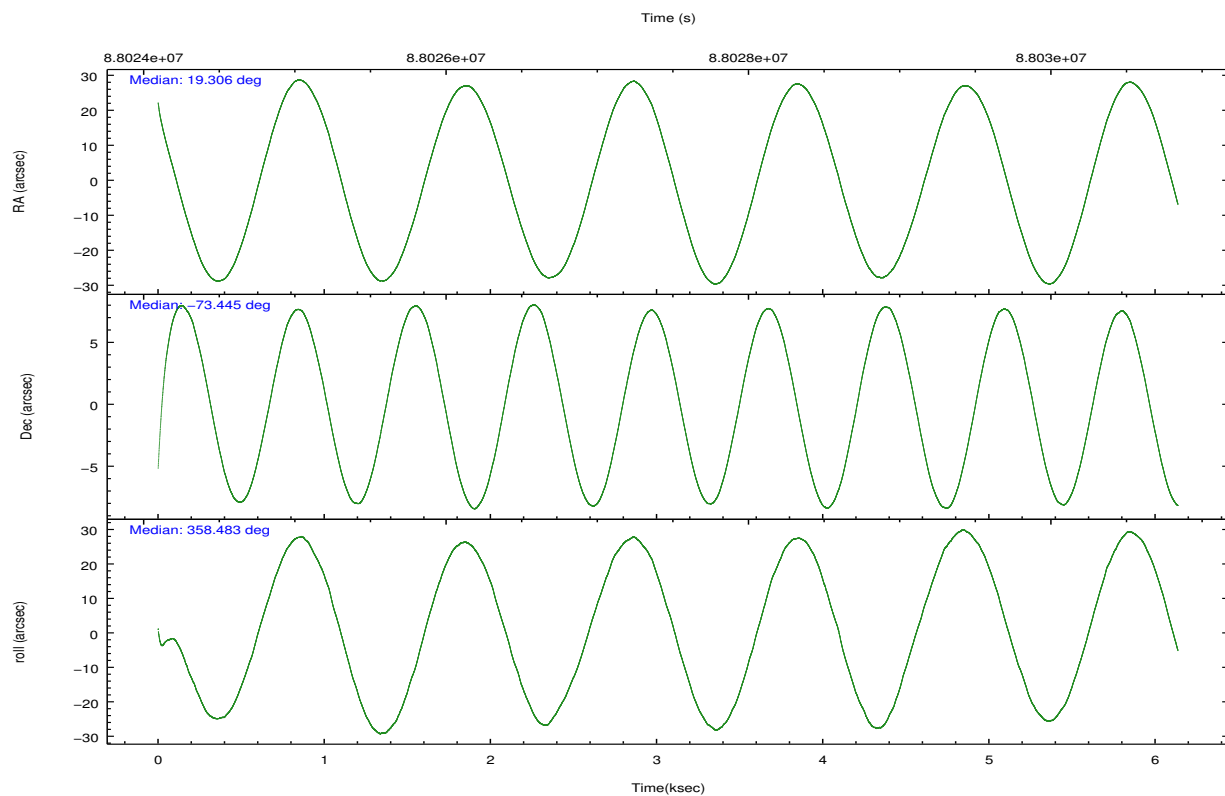
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	927	1103	12432	2259	82896	2790
	10%	11%	27%	16%	18%	15%
grade 1 events	24	24	53	81	11353	48
	0%	0%	0%	0%	2%	0%
grade 2 events	2728	3057	10359	5114	102890	5087
	31%	31%	23%	37%	23%	28%
grade 3 events	1133	1422	995	1250	39375	1937
	13%	14%	2%	9%	8%	10%
grade 4 events	1103	1224	980	1216	37890	1862
	12%	12%	2%	8%	8%	10%
grade 5 events	1316	1467	3813	1728	42739	2133
	15%	14%	8%	12%	9%	12%
grade 6 events	1435	1546	15903	1988	125070	3899
	16%	15%	35%	14%	28%	21%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	19.221471	19.30564926711384	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.458181	-73.44494176024065	Alternating exposures requested	N	N
[deg] Pointing Roll	358.247493	358.4847938766617	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	88024024.184000	88024024.184000			
[s] Window stop time (MET)	88031224.184000	88031224.184000			
[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			
Phase constraints	Y	Y			
[d] Phase period	3.892000	3.892000			
[d] Phase epoch (MJD)	50141.466800	50141.466800			
Phase start	0.000000	0.000000			
Phase end	0.800000	0.800000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
[s] Observation start time (MET)	88024538.184000	88023442.684808			
Observation start date	2000-10-15T19:14:34	2000-10-15T18:57:22			
[s] Observation end time (MET)	88030538.184000	88031502.772613			

2.3 Aspect



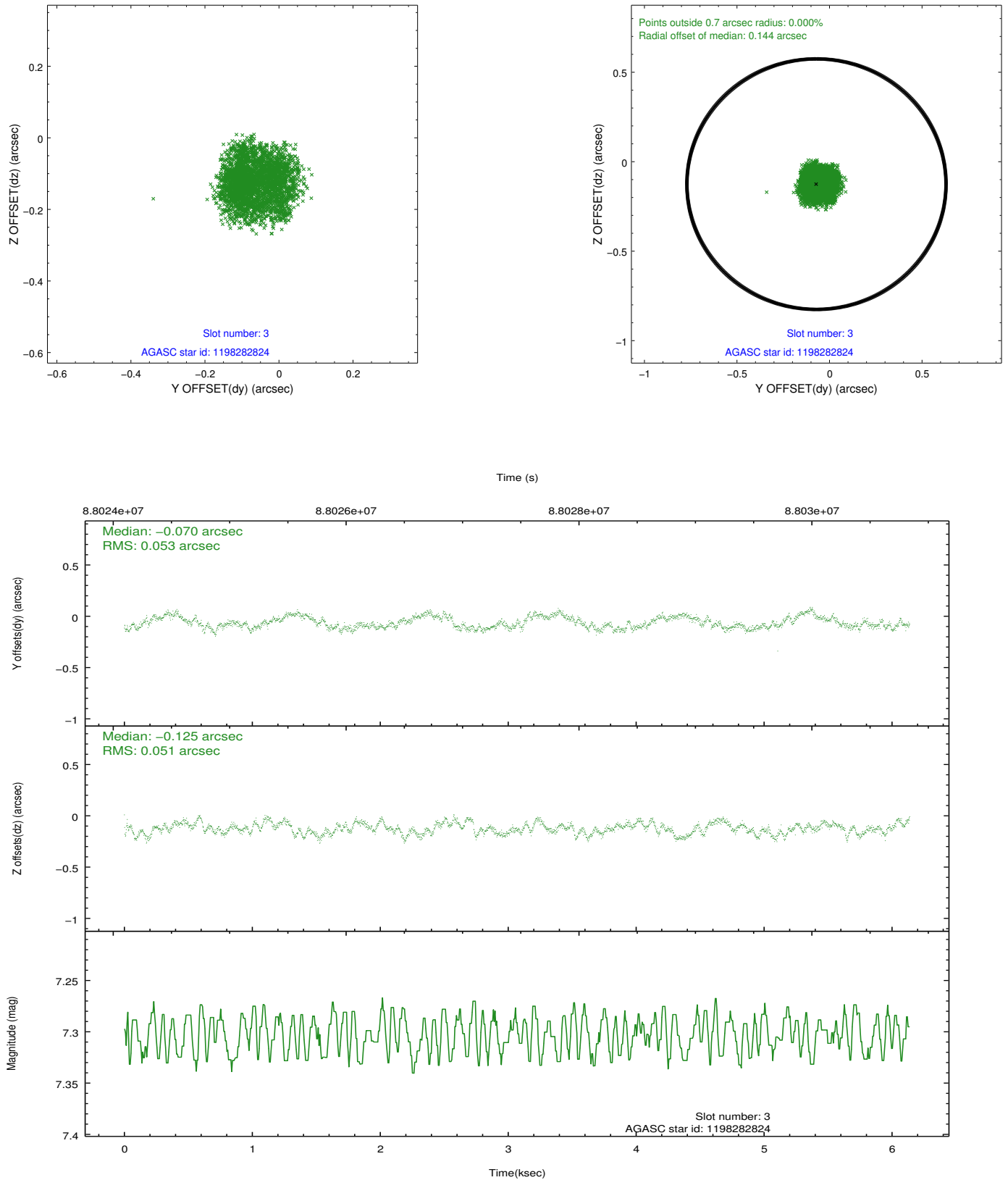


Slot Statistics

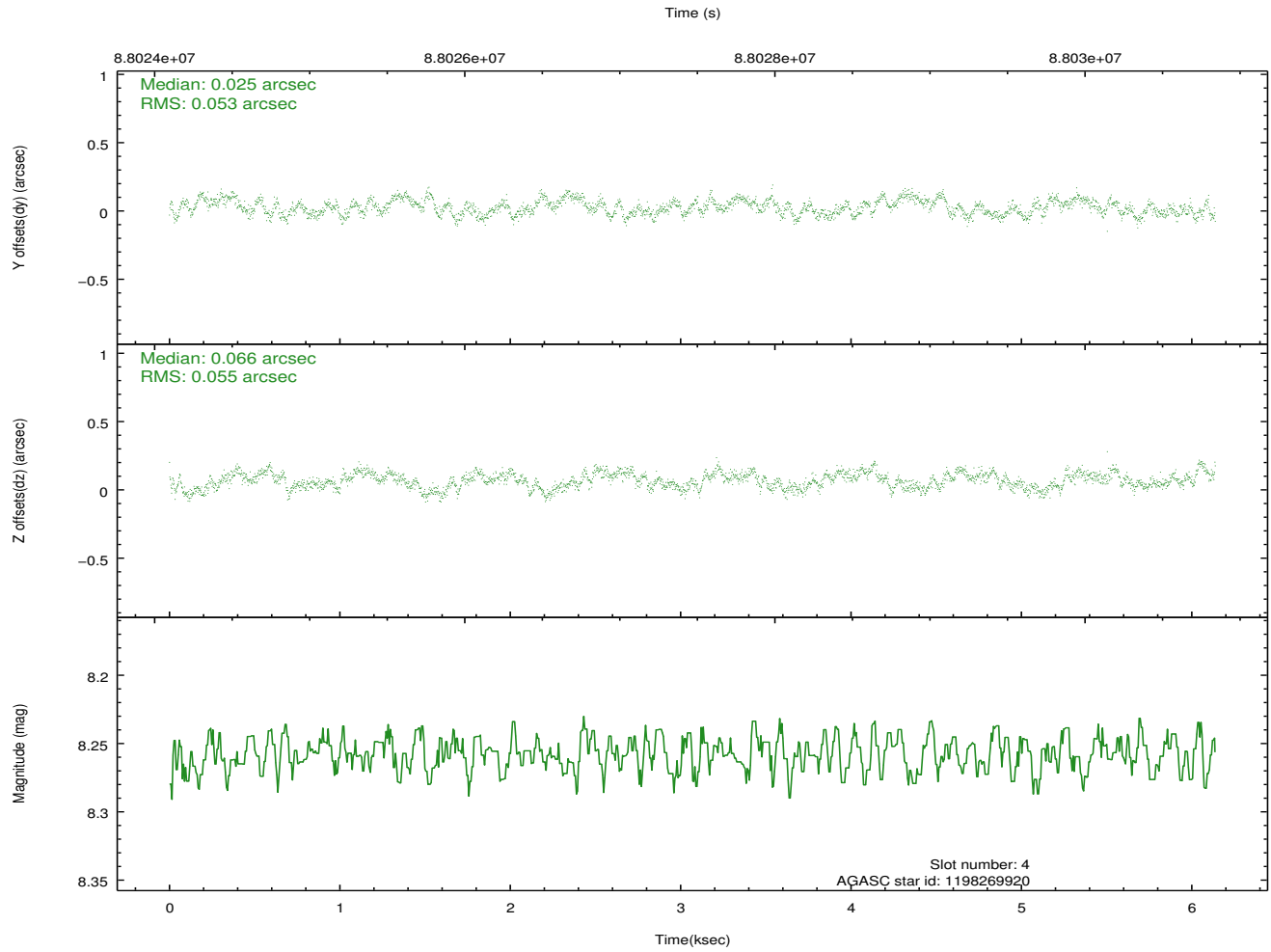
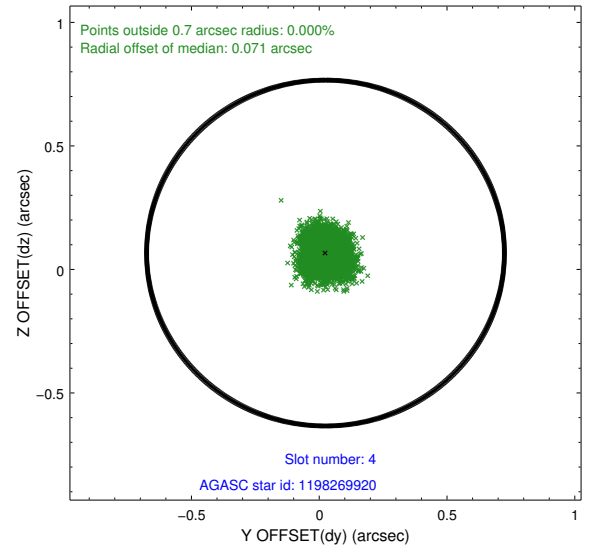
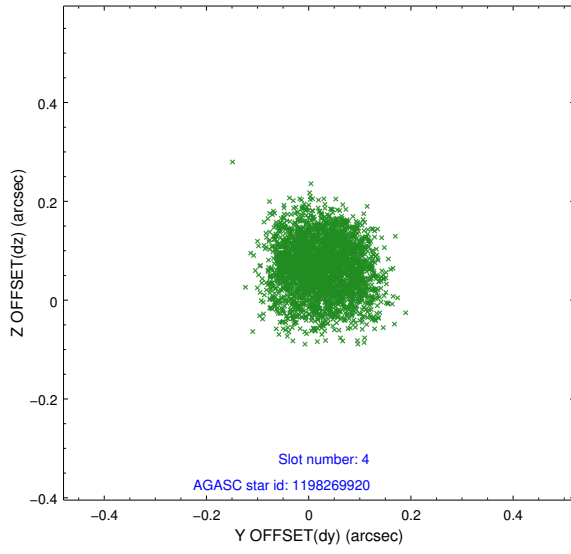
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1495	-0.041	0.003	0.007	0.011	0.000000	0.000000	-754.69	-1727.38
1	FID	ACIS-S-4	7.20	1495	-0.012	0.019	0.005	0.010	0.000000	0.000000	2158.16	180.16
2	FID	ACIS-S-5	7.24	1495	0.022	-0.013	0.007	0.011	0.000000	0.000000	-1806.25	174.85
3	GUIDE	1198282824	7.30	2993	-0.070	-0.125	0.082	0.121	18.044095	-73.907062	-1125.27	-1662.93
4	GUIDE	1198269920	8.26	2992	0.025	0.066	0.083	0.125	20.316466	-73.033728	1102.11	1551.50
5	GUIDE	1198275224	9.64	2992	-0.098	-0.028	0.109	0.174	16.880121	-73.921864	-2280.71	-1785.30
6	GUIDE	1198272400	9.16	2991	0.083	-0.002	0.079	0.125	20.411923	-73.620598	1224.68	-560.10
7	GUIDE	1198264832	9.49	2990	0.068	0.111	0.234	0.323	20.353668	-72.974637	1139.54	1765.09

2.4 Star Slots

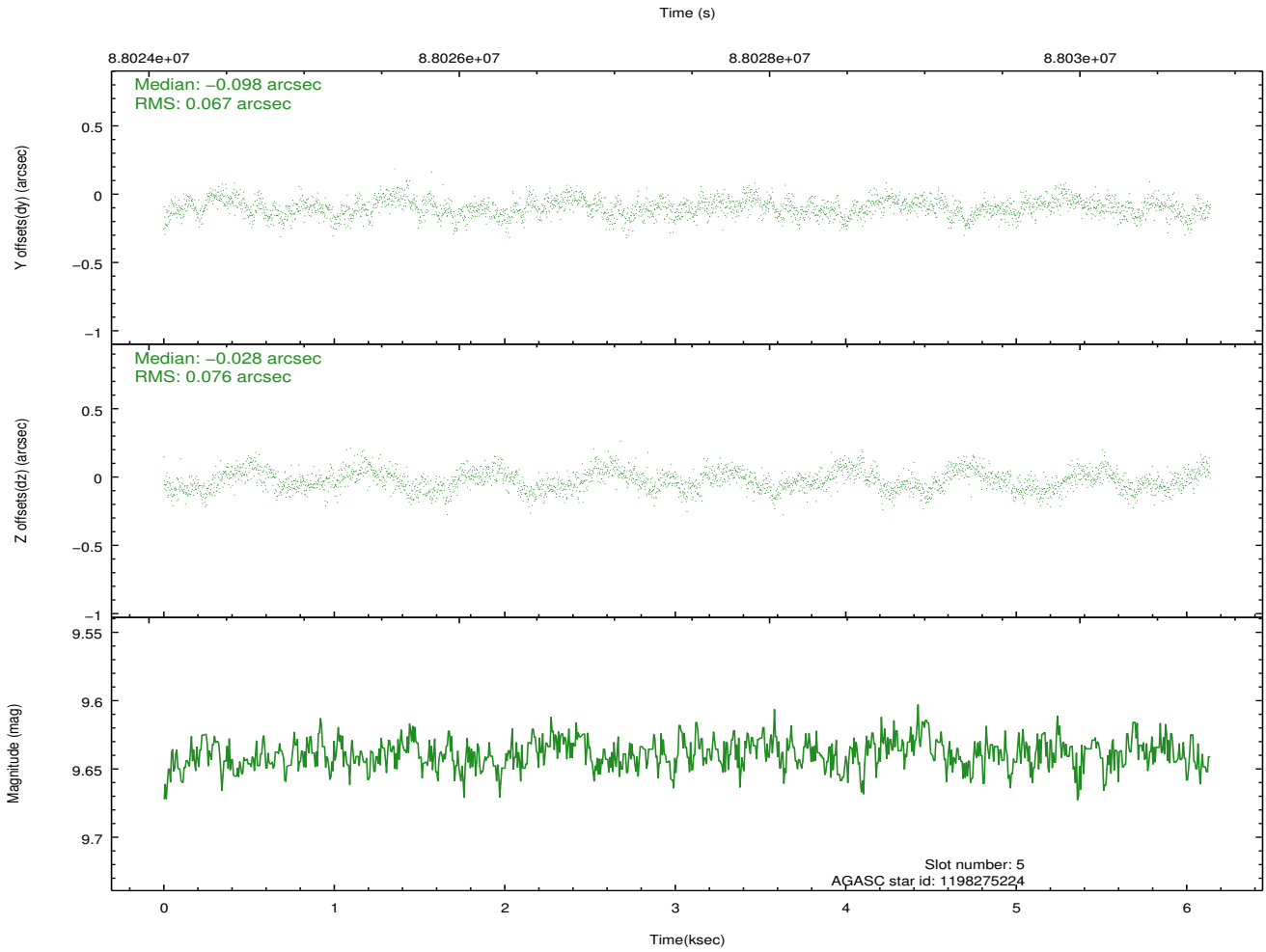
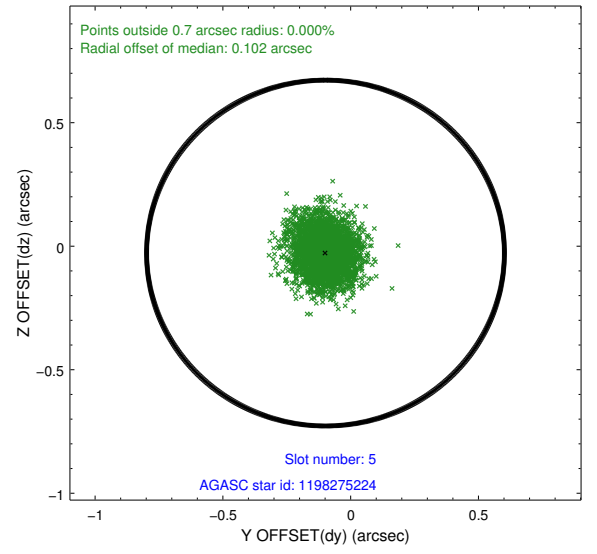
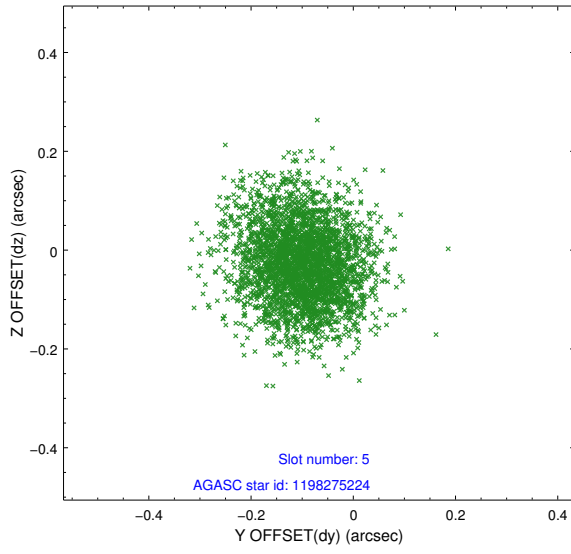
2.4.1 Slot 3



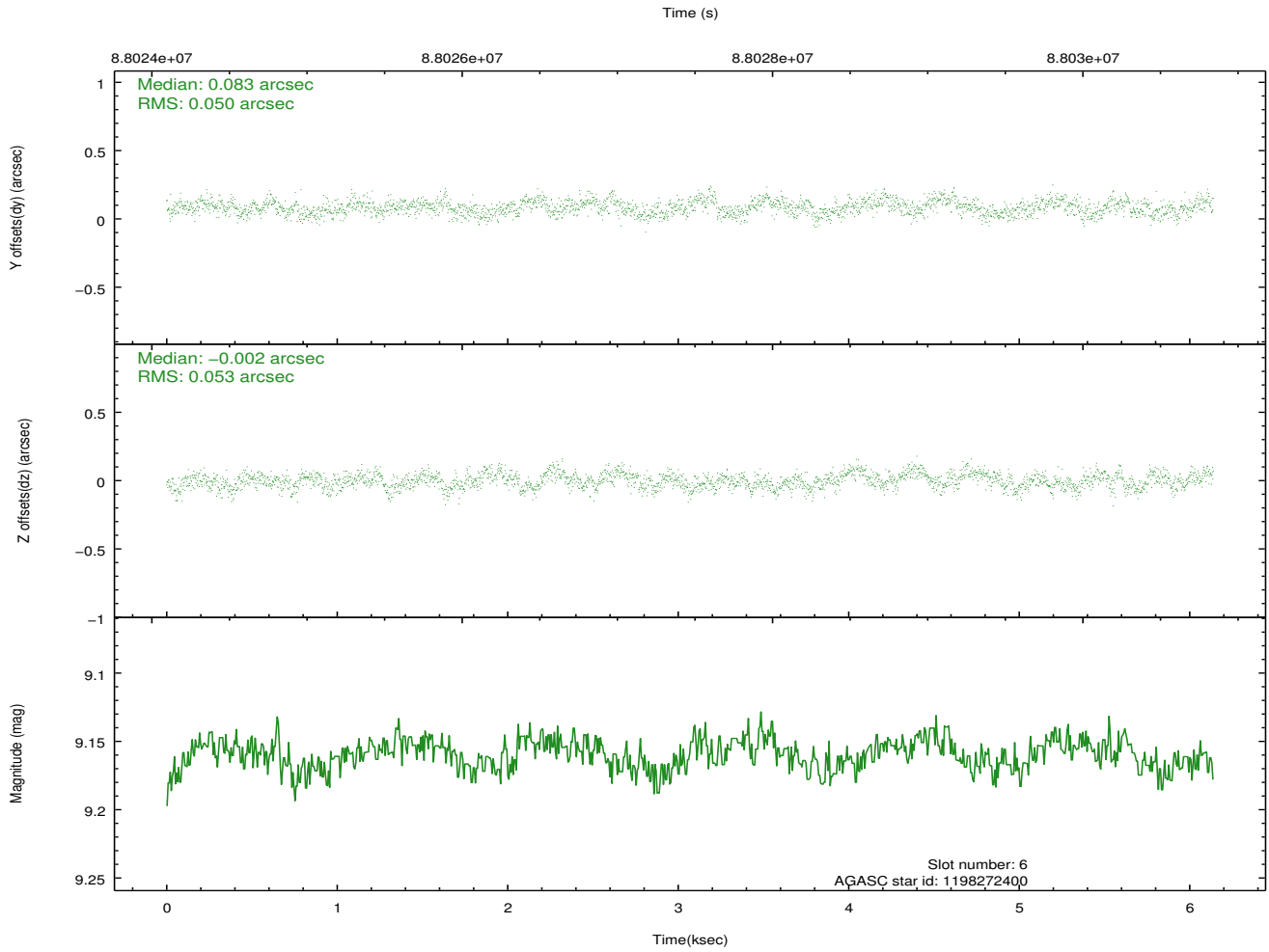
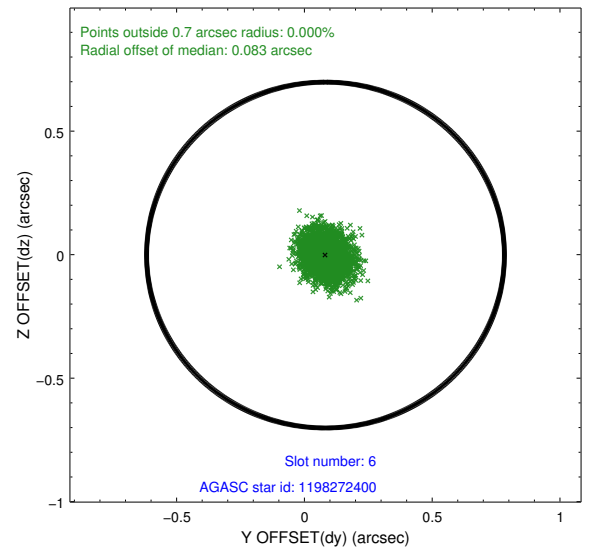
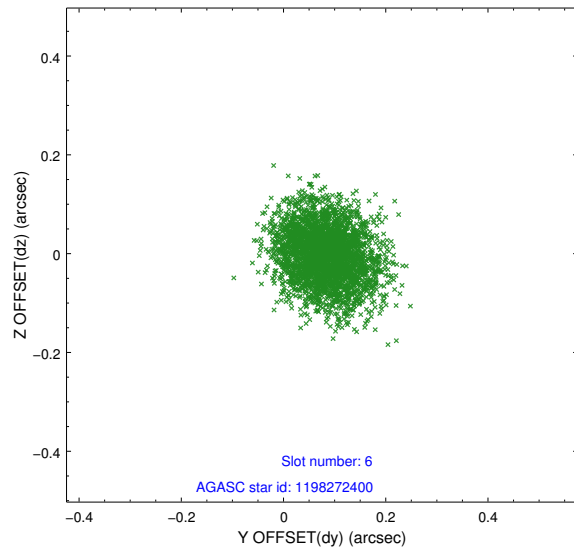
2.4.2 Slot 4



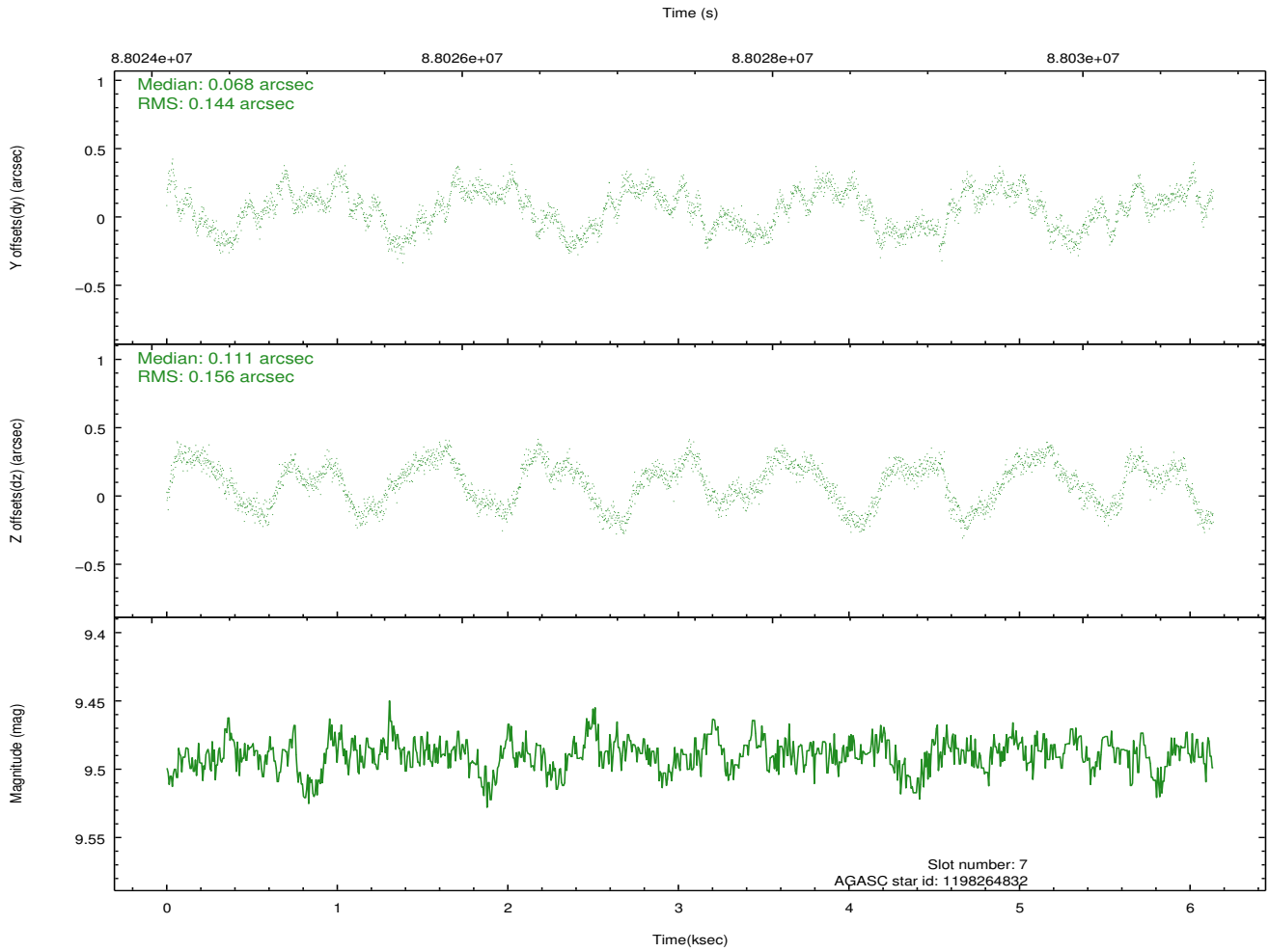
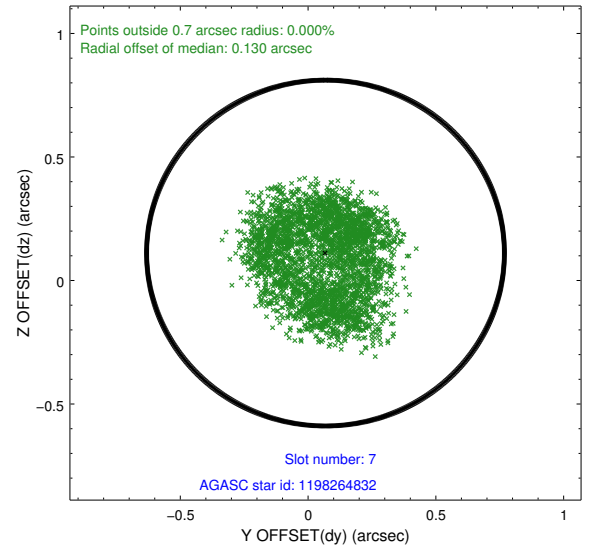
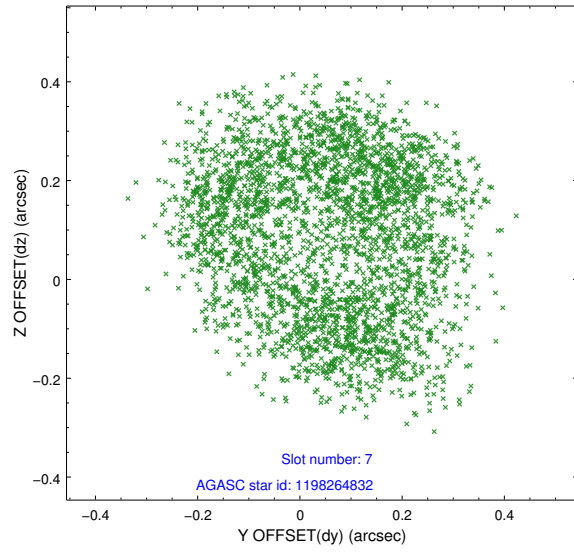
2.4.3 Slot 5



2.4.4 Slot 6

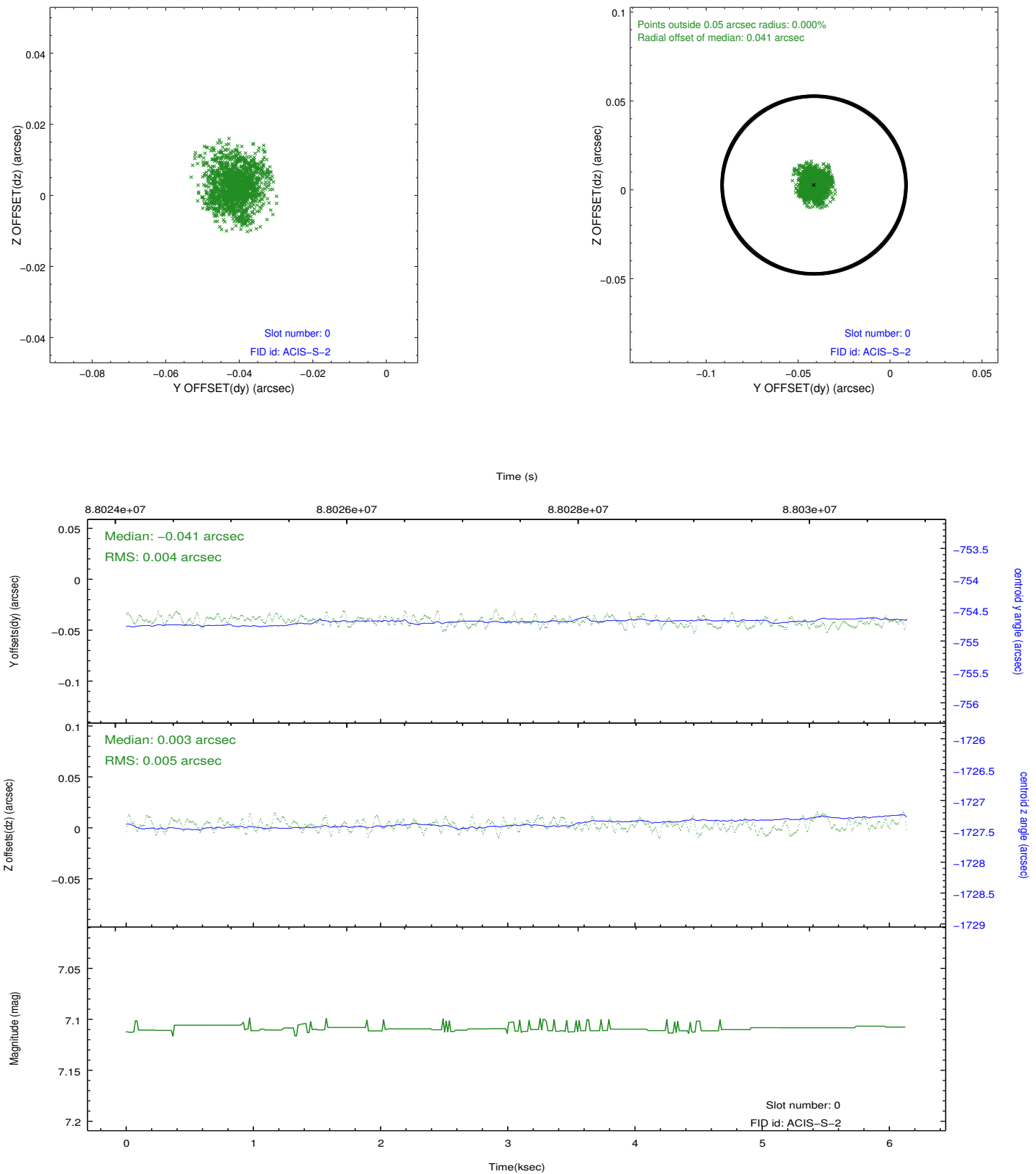


2.4.5 Slot 7

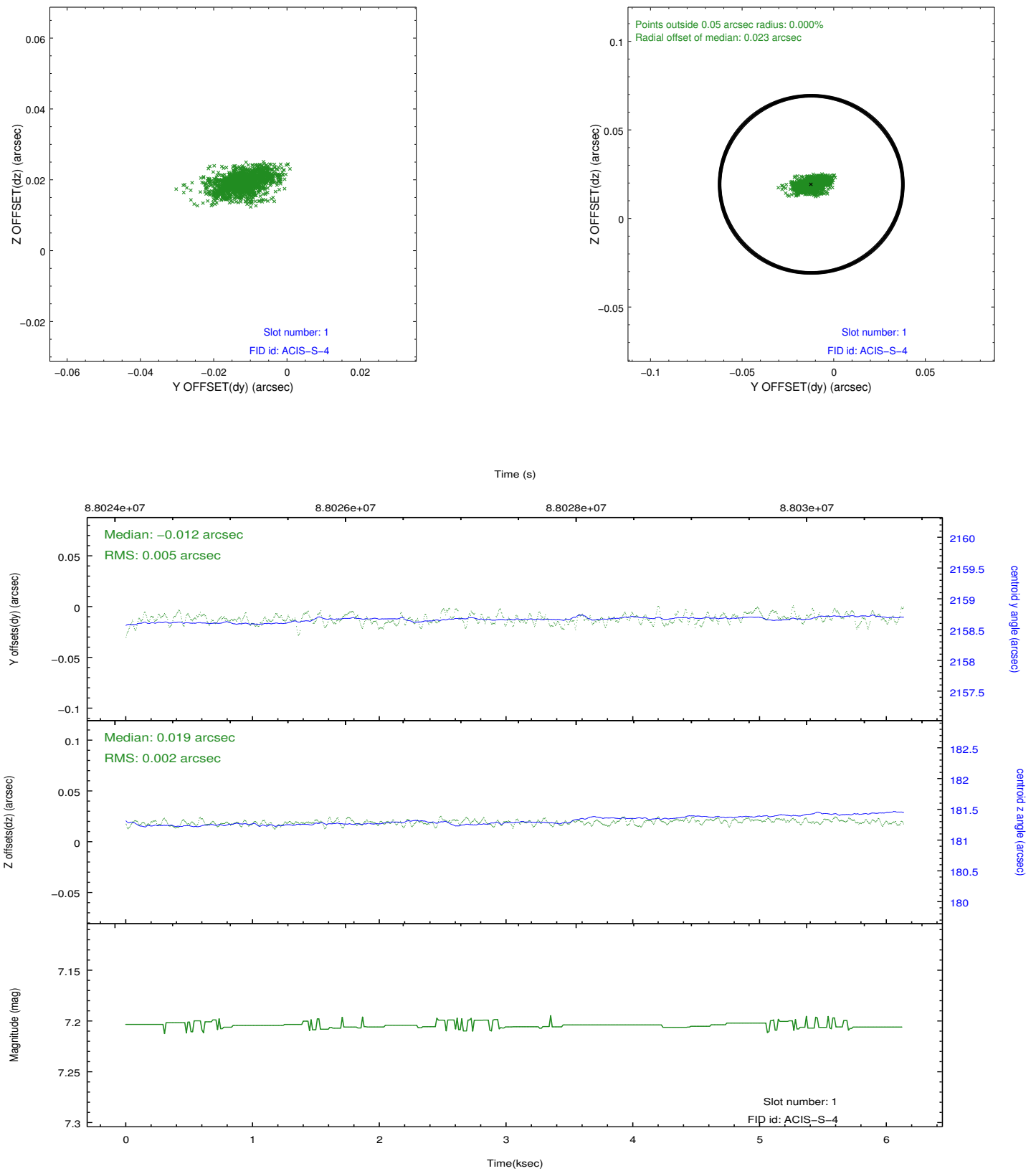


2.5 FID Slots

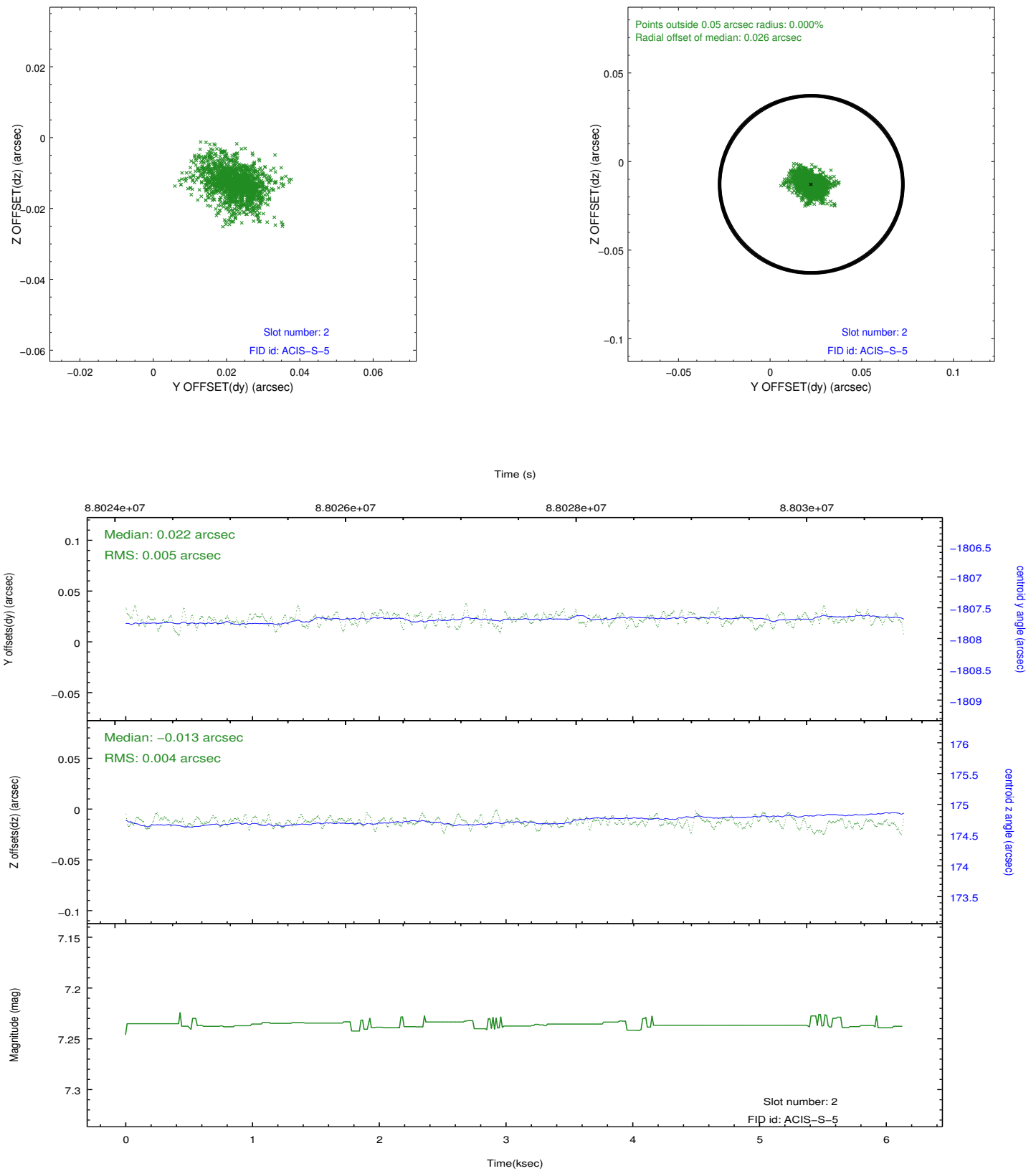
2.5.1 Slot 0



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)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.131

A.2 Comments