

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19627 - L2 Version 1
Chandra X-Ray Center

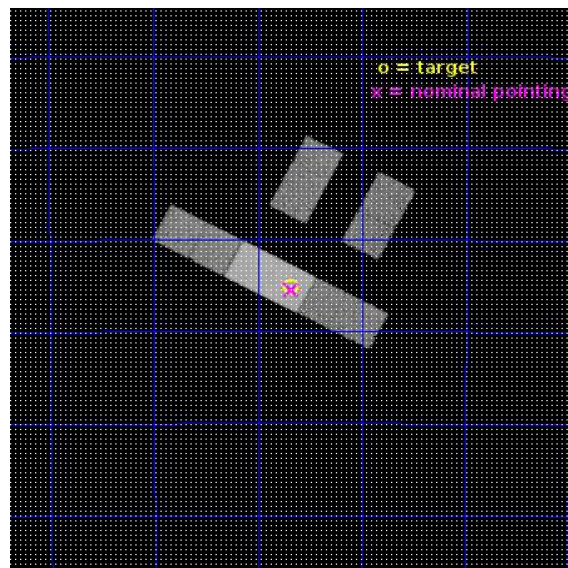
L2 Processing Date : Mar 30 2017

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1 Front

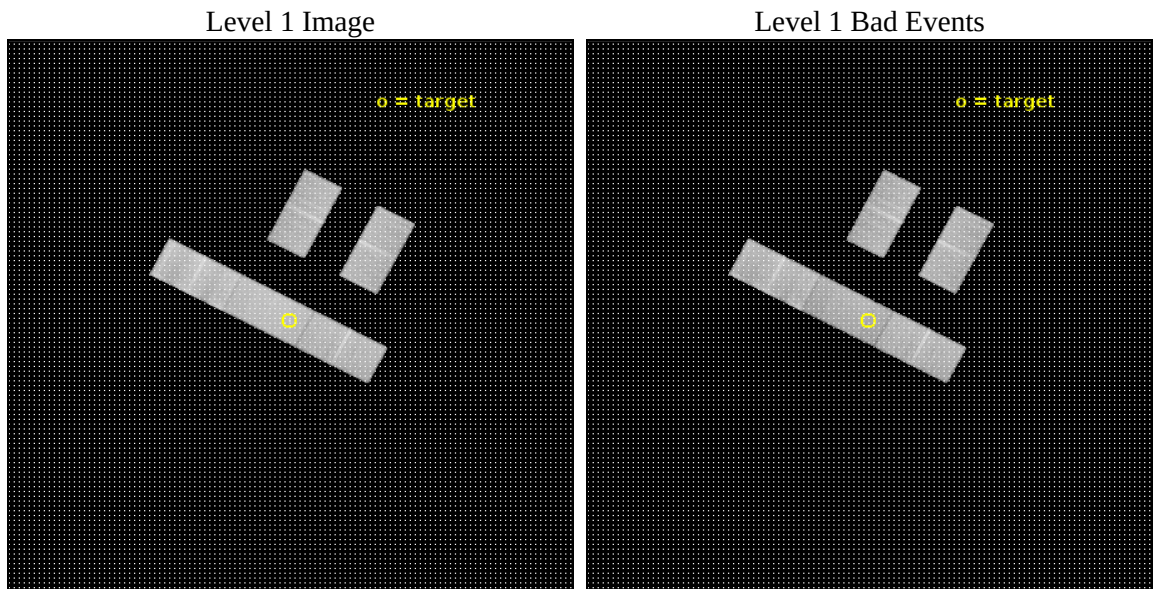
seq_num	703424	Sequence number
obs_id	19627	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	QJ0158-4325	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.6725	Observer's specified target RA [deg]
dec_targ	-43.417833	Observer's specified target Dec [deg]
ra_nom	29.66982772353	Nominal RA [deg]
dec_nom	-43.424123605408	Nominal Dec [deg]
roll_nom	207.55277374509	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36136.901013613	Sum of GTIs [s]
livetime	35285.077725464	Livetime [s]
ontime2	36136.901013613	Sum of GTIs [s]
ontime3	36136.901013613	Sum of GTIs [s]
ontime6	36136.901013613	Sum of GTIs [s]
ontime7	36136.901013613	Sum of GTIs [s]
ontime8	36136.901013613	Sum of GTIs [s]
l2events	130597	Number of level 2 events



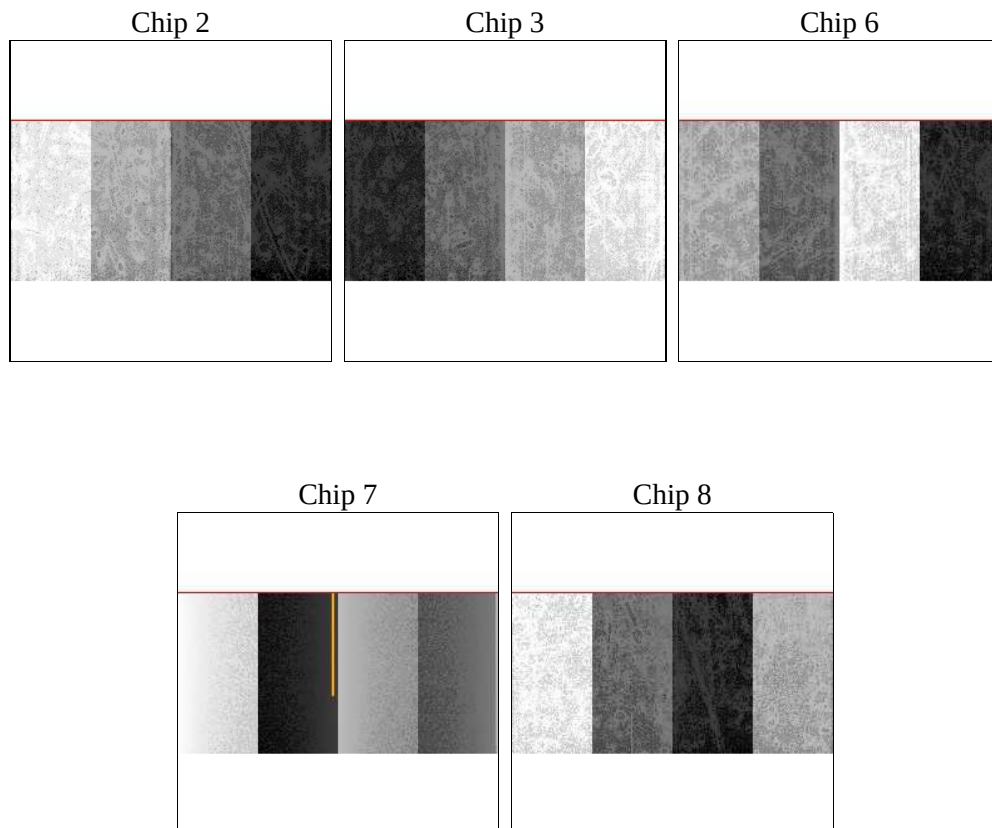
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36080.813000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	36136.901013613	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	36136.901013613	Sum of GTIs [s]
date	2017-03-31T02:14:00	Date and time of file creation	ontime3	36136.901013613	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	36136.901013613	Sum of GTIs [s]
			ontime7	36136.901013613	Sum of GTIs [s]
			ontime8	36136.901013613	Sum of GTIs [s]
			l1events	767539	Number of level 1 events

2.1.4 Events

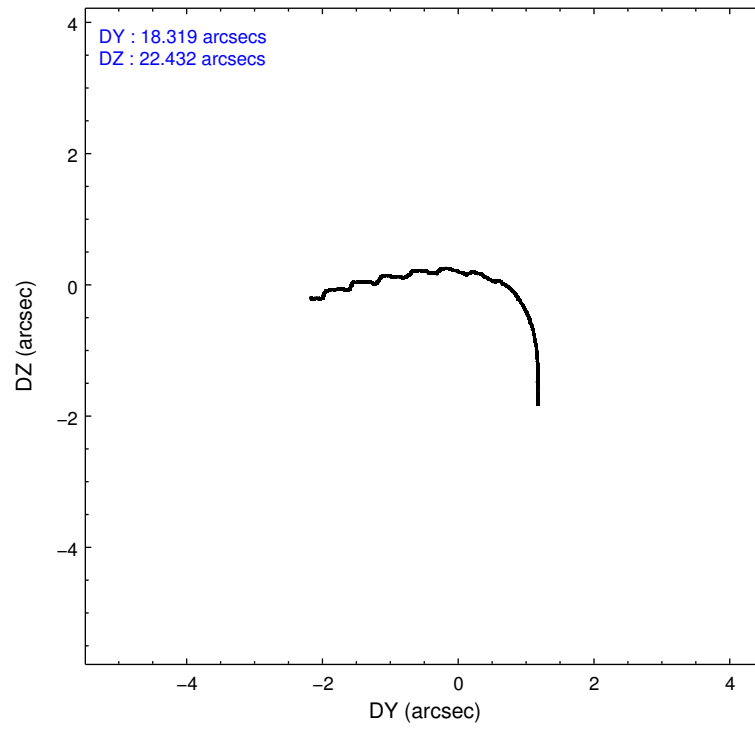
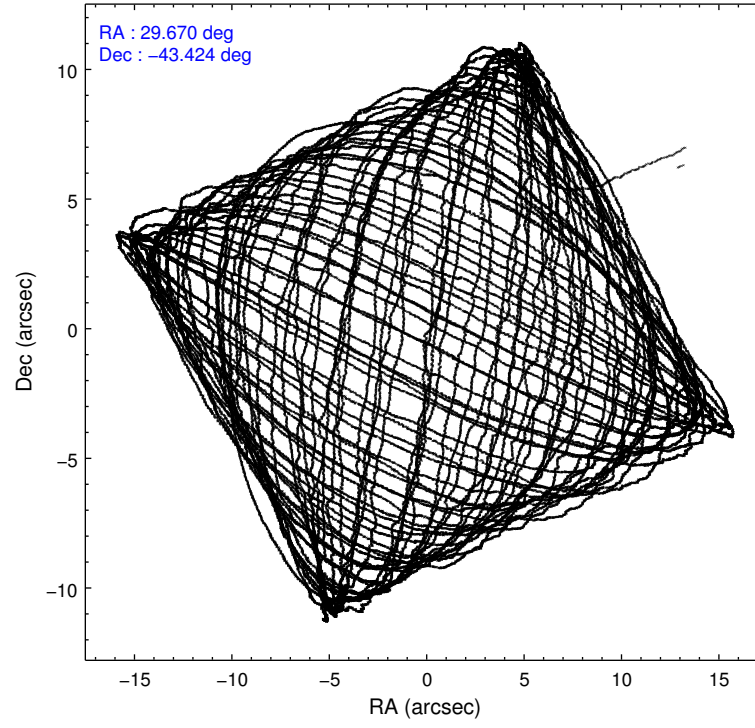
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	134515	132326	142460	172433	185805
rejected events	120083	117395	125898	94556	137501
rejected %	89%	88%	88%	54%	74%

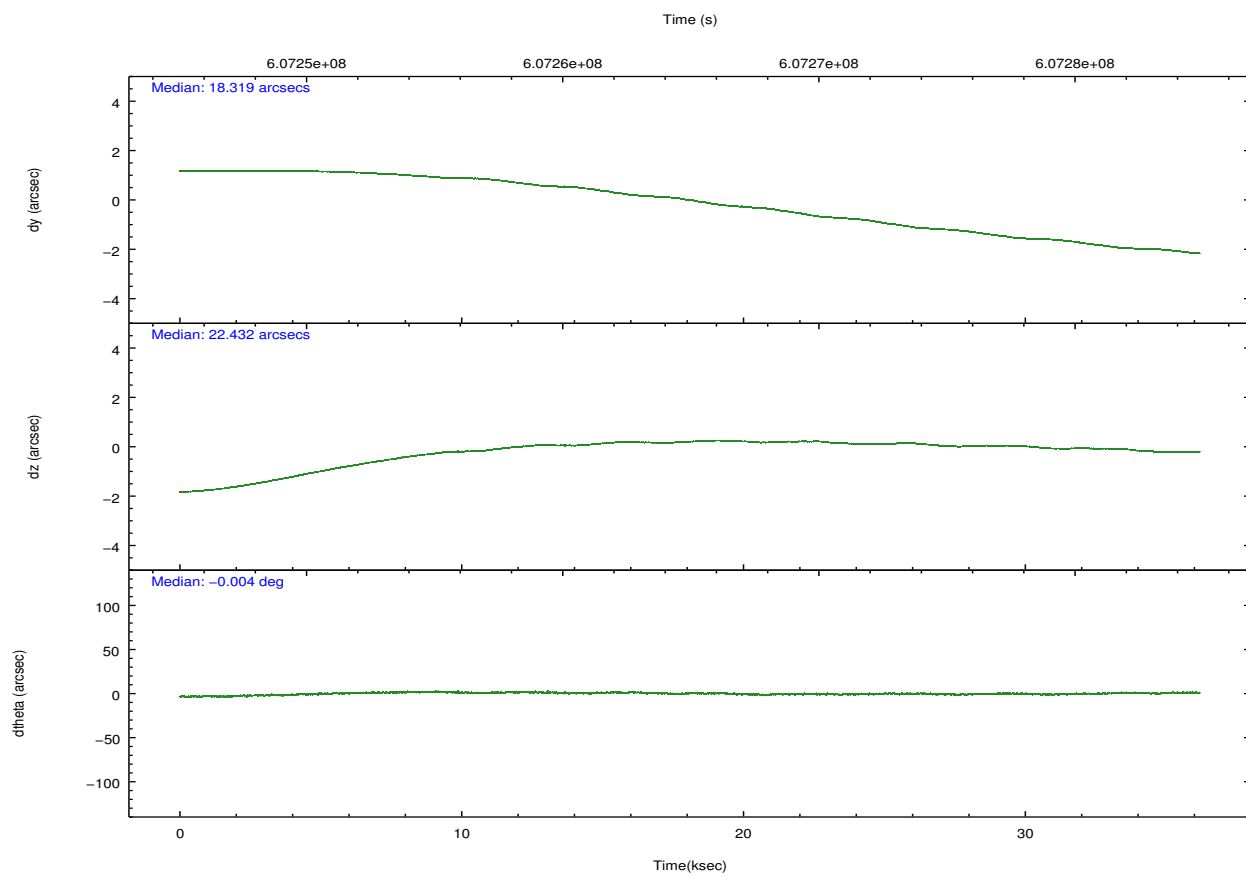
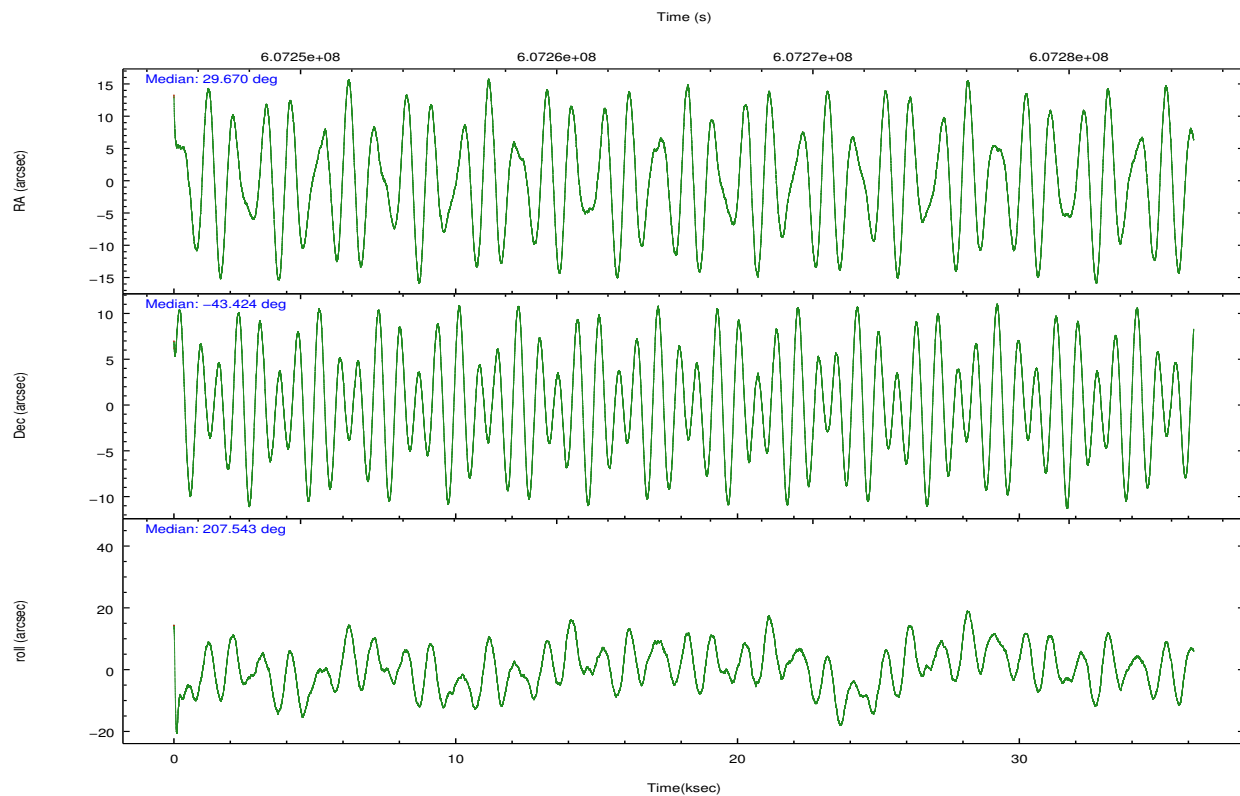
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4838	5280	5461	7494	13657
	3%	3%	3%	4%	7%
grade 1 events	60	71	41	257	106
	0%	0%	0%	0%	0%
grade 2 events	3389	3168	3612	16693	11724
	2%	2%	2%	9%	6%
grade 3 events	1715	1795	1961	7218	4964
	1%	1%	1%	4%	2%
grade 4 events	1814	1741	1966	7108	4814
	1%	1%	1%	4%	2%
grade 5 events	4844	6218	6563	17701	9274
	3%	4%	4%	10%	4%
grade 6 events	2676	2947	3562	39366	13147
	1%	2%	2%	22%	7%
grade 7 events	115179	111106	119294	76596	128119
	85%	83%	83%	44%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	29.689666	29.66982772353042	CCD I2 on	O1	Y
[deg] Pointing Dec	-43.400782	-43.42412360540767	CCD I3 on	O2	Y
[deg] Pointing Roll	207.409767	207.5527737450894	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	607246944.184000	607245617.98053	CCD S5 on	N	N
Observation start date	2017-03-30T07:41:15	2017-03-30T07:20:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	607283025.184000	607283255.47021	On-chip summing requested	N	N
Observation end date	2017-03-30T17:42:36	2017-03-30T17:47:35	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



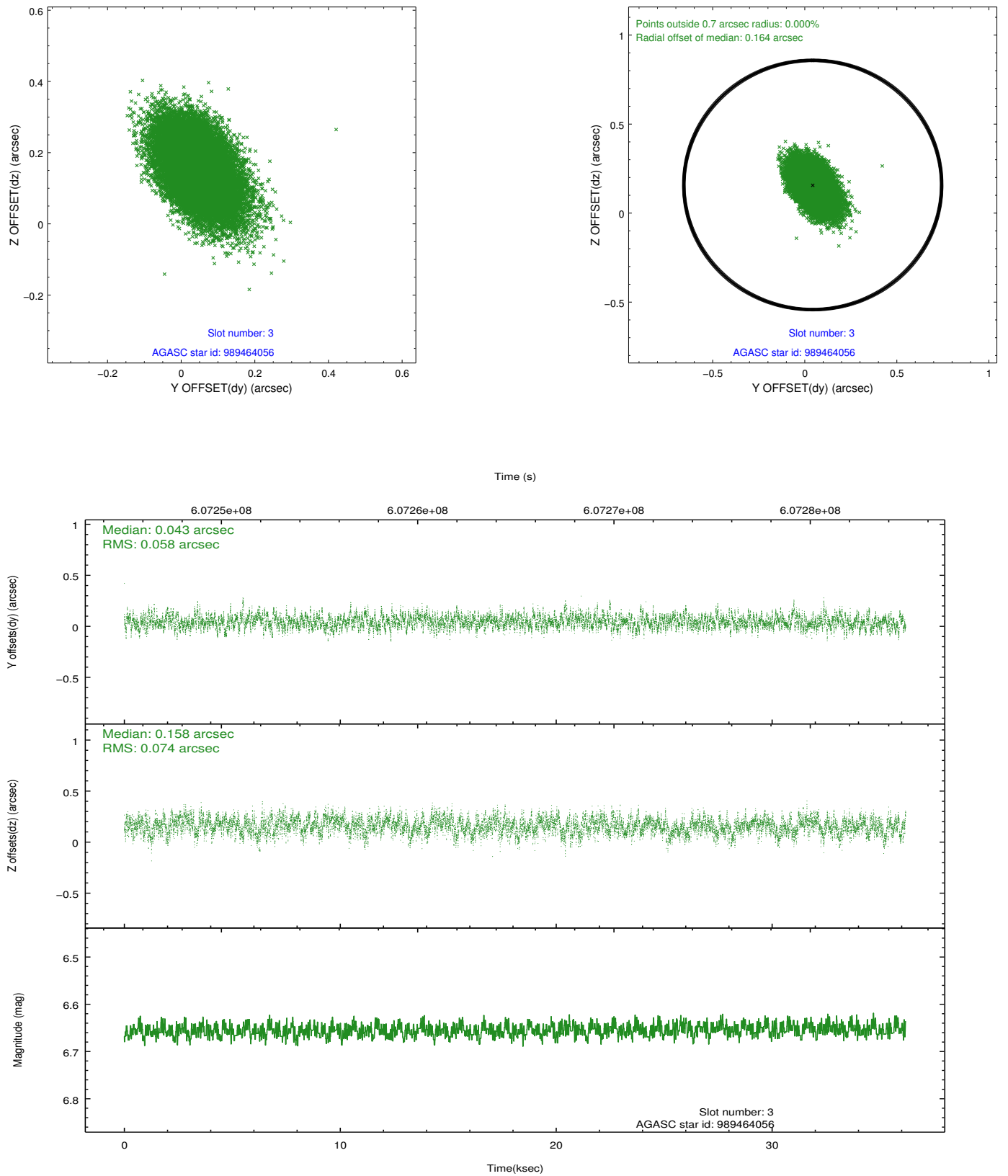


Slot Statistics

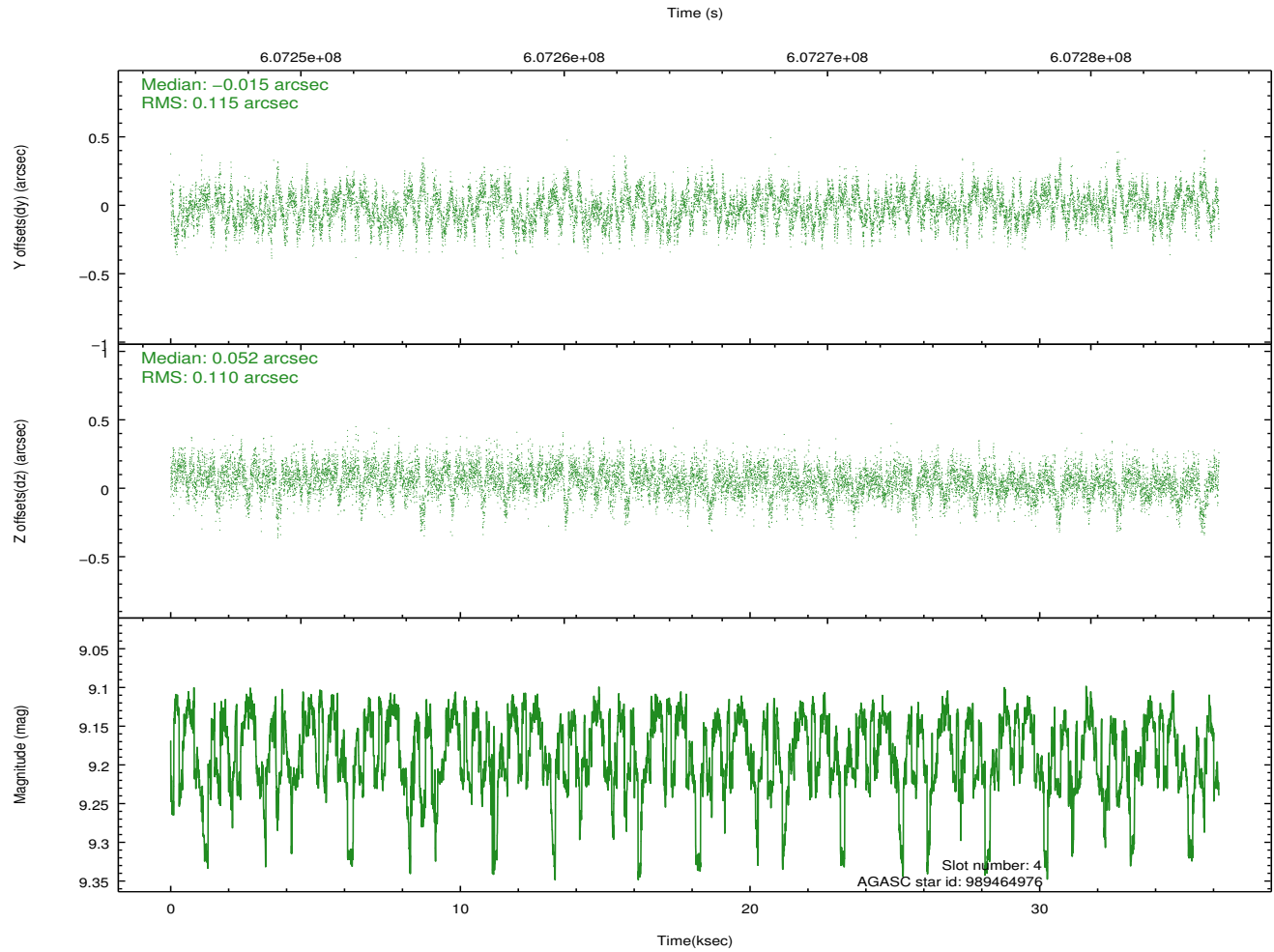
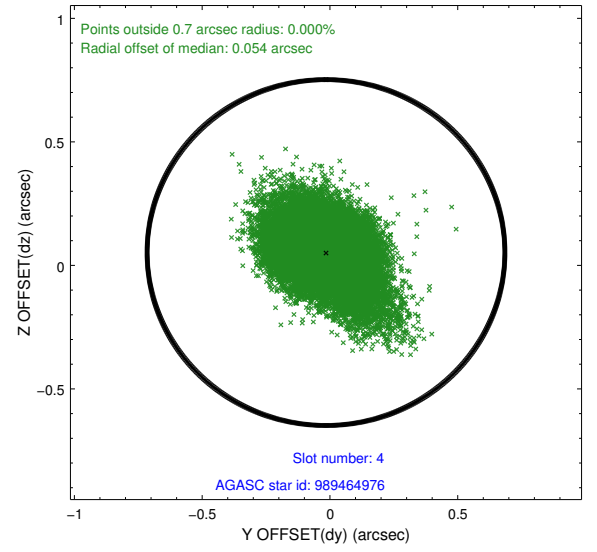
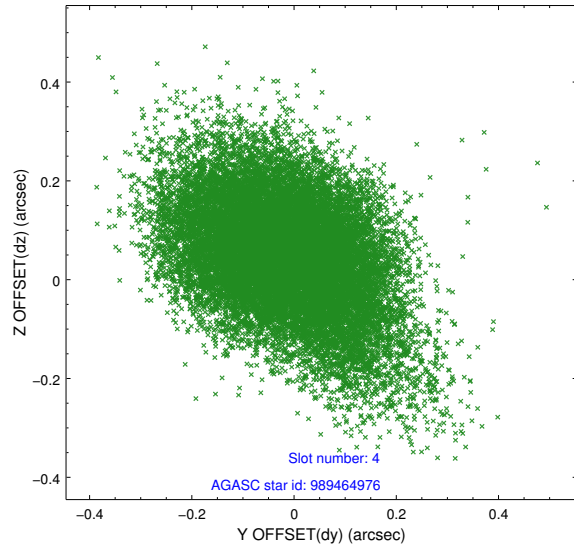
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	8827	-0.205	-0.153	0.038	0.061	0.000000	0.000000	-771.42	-1743.86
1	FID		ACIS-S-4	7.16	8826	0.494	0.142	0.053	0.068	0.000000	0.000000	2142.55	164.87
2	FID		ACIS-S-5	7.15	8827	-0.319	0.021	0.033	0.056	0.000000	0.000000	-1824.31	158.46
3	GUIDE	used	989464056	6.65	17650	0.043	0.158	0.099	0.166	29.735893	-42.949136	-855.75	-1386.91
4	GUIDE	used	989464976	9.19	17631	-0.015	0.052	0.165	0.277	28.960994	-43.047006	1120.14	-2005.51
5	GUIDE	used	989467528	8.17	17581	-0.038	-0.017	0.110	0.186	29.209436	-43.178151	752.10	-1287.82
6	GUIDE	used	989469232	8.74	17639	0.023	-0.084	0.139	0.242	28.685830	-43.208230	2027.31	-1813.39
7	GUIDE	used	990381216	9.43	17636	-0.011	-0.098	0.172	0.296	30.795771	-43.607731	-2207.93	2005.41

2.4 Star Slots

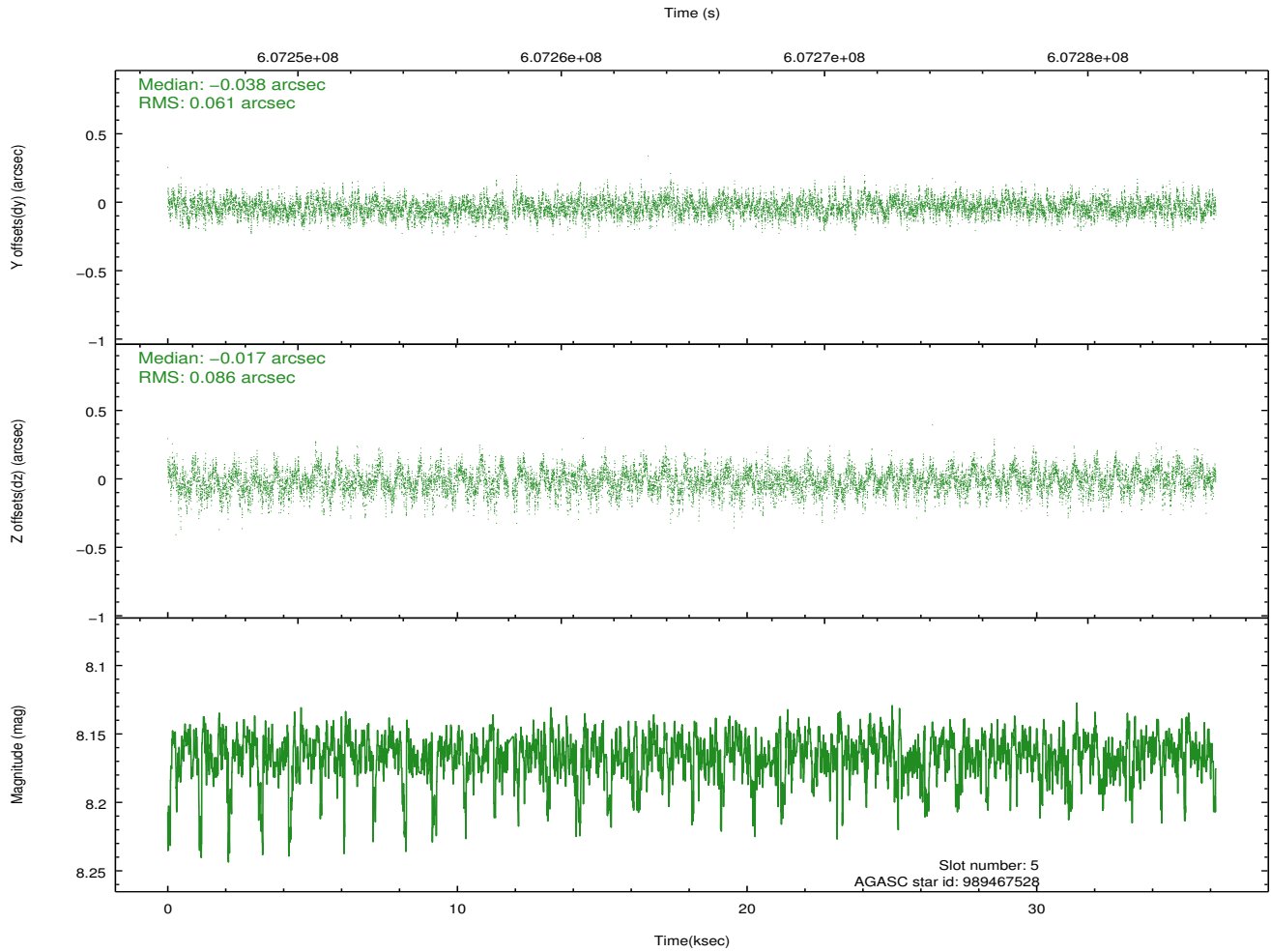
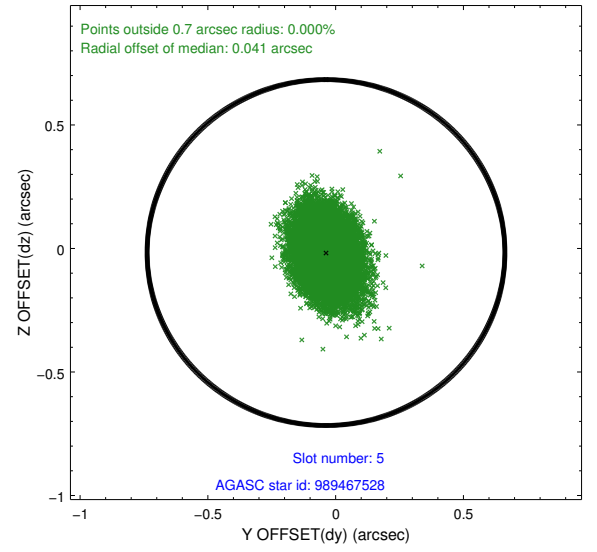
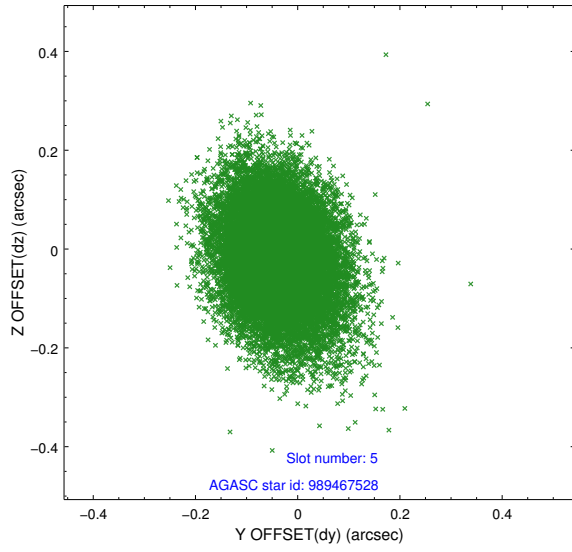
2.4.1 Slot 3



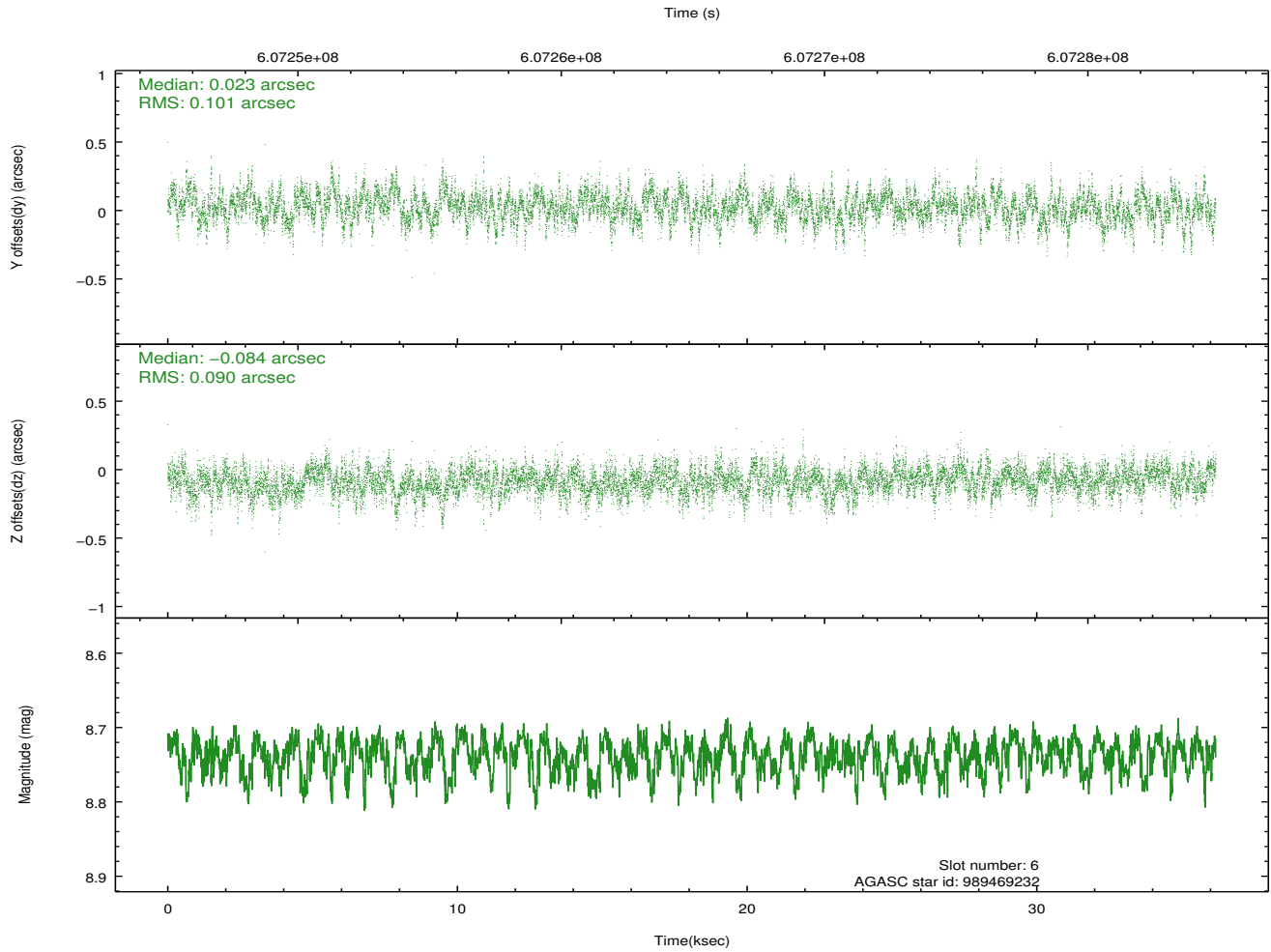
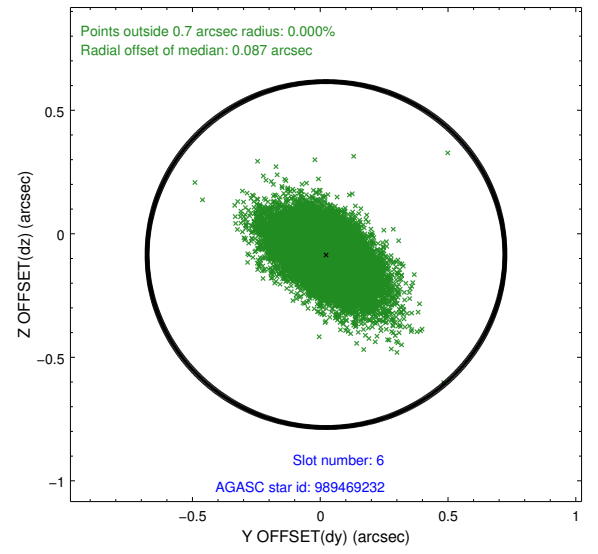
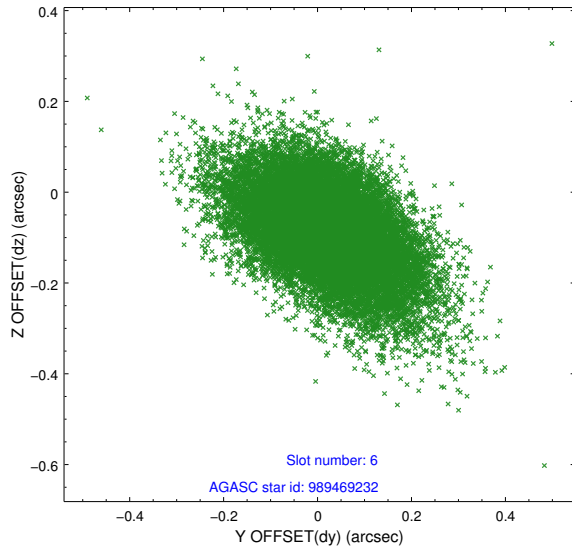
2.4.2 Slot 4



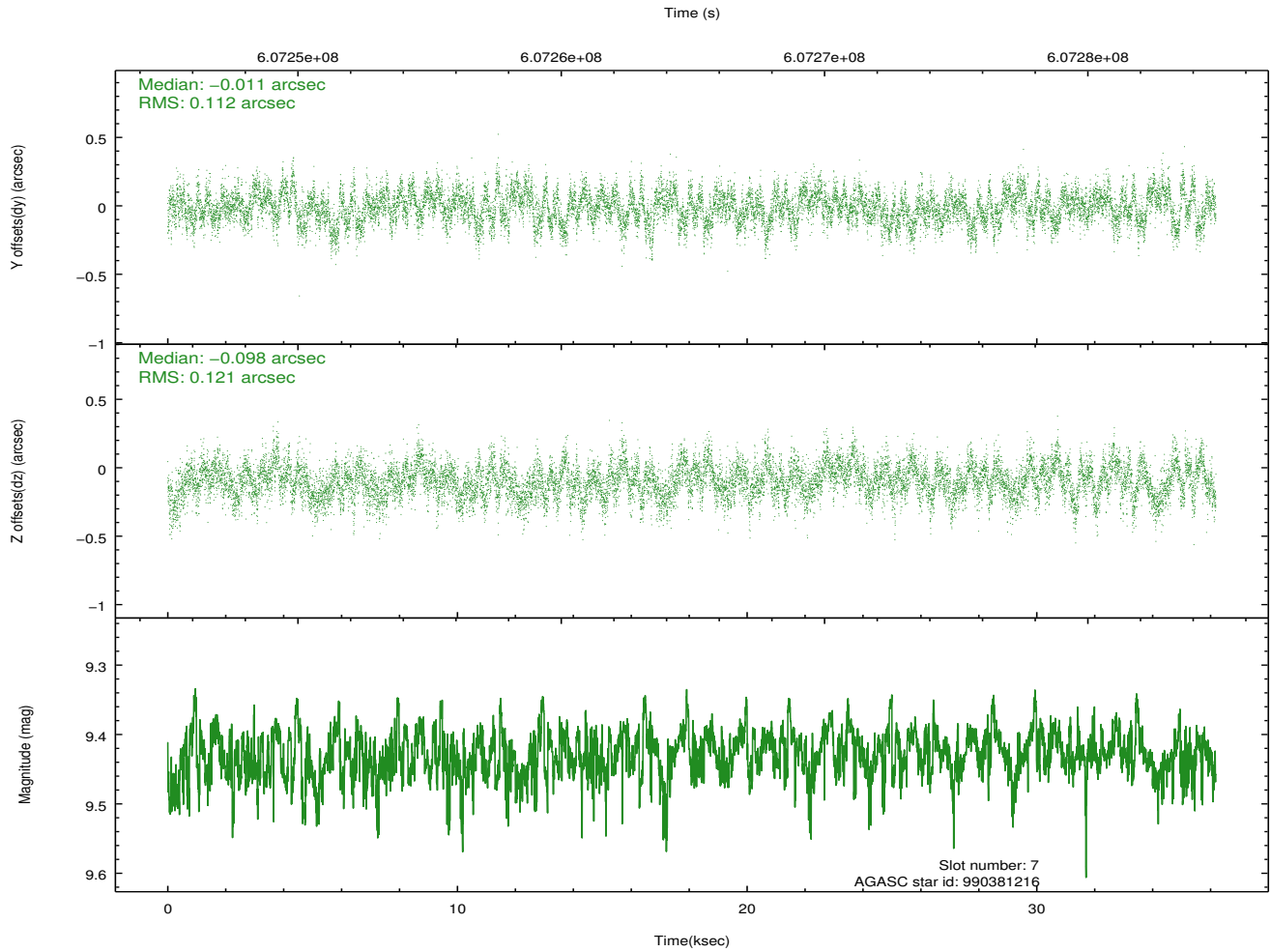
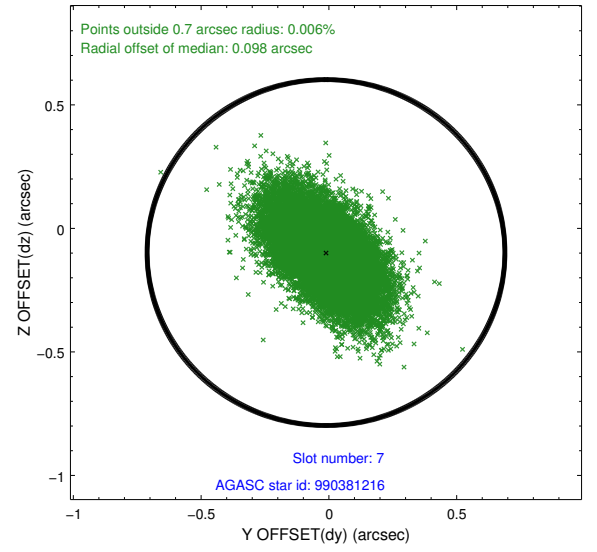
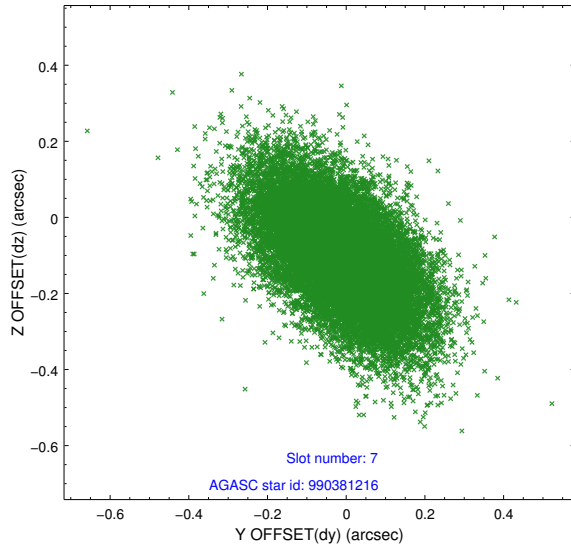
2.4.3 Slot 5



2.4.4 Slot 6

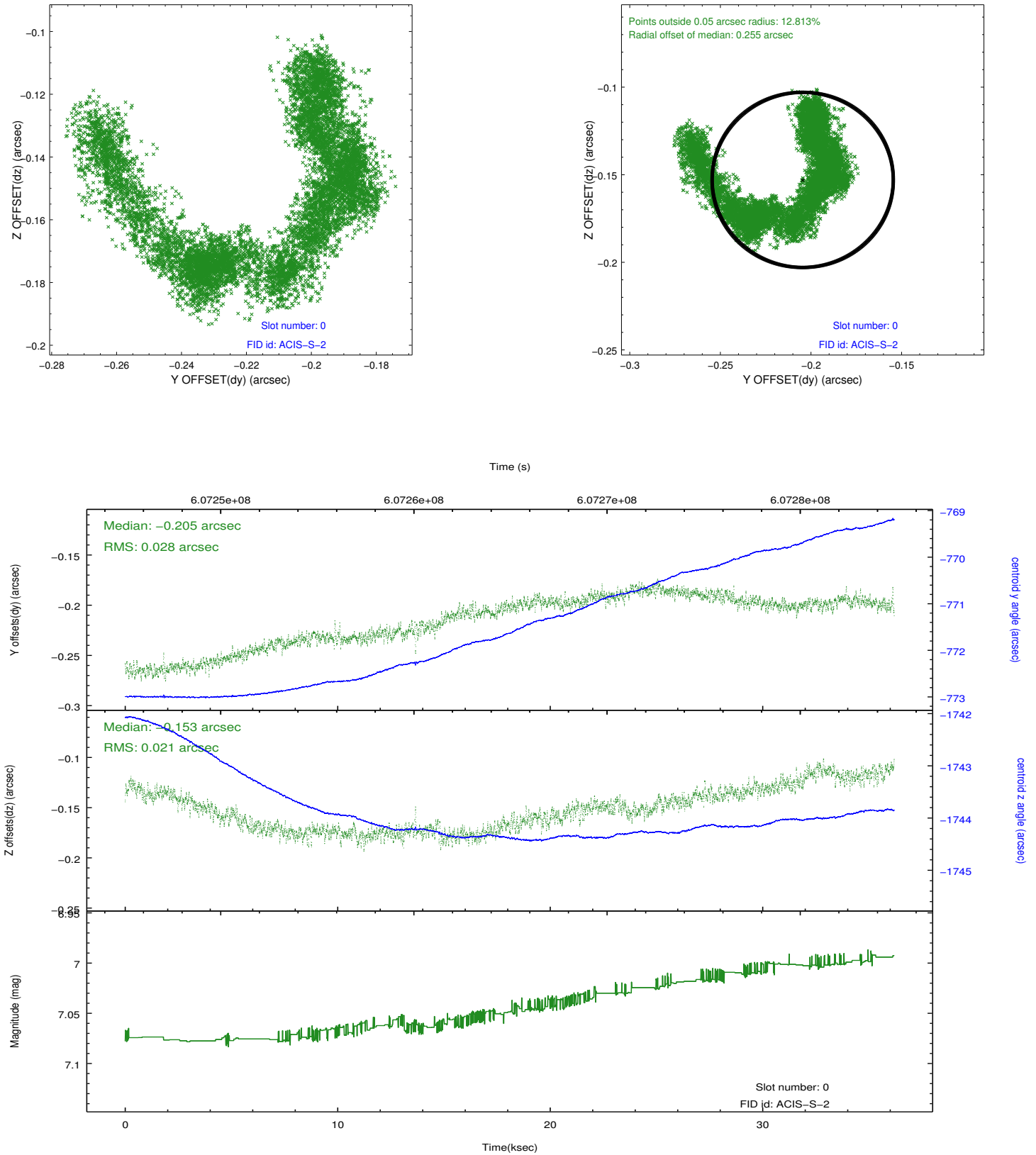


2.4.5 Slot 7

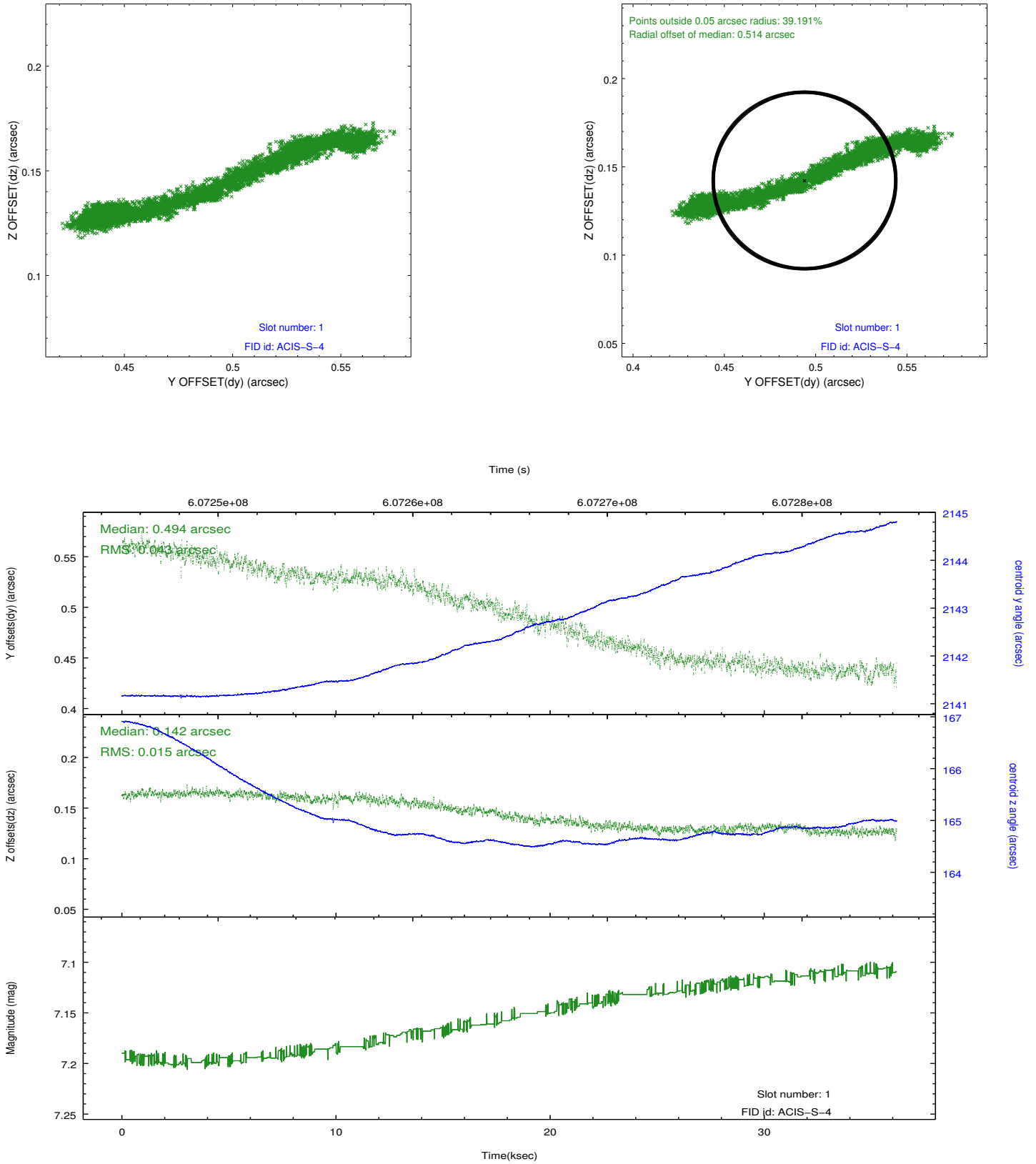


2.5 FID Slots

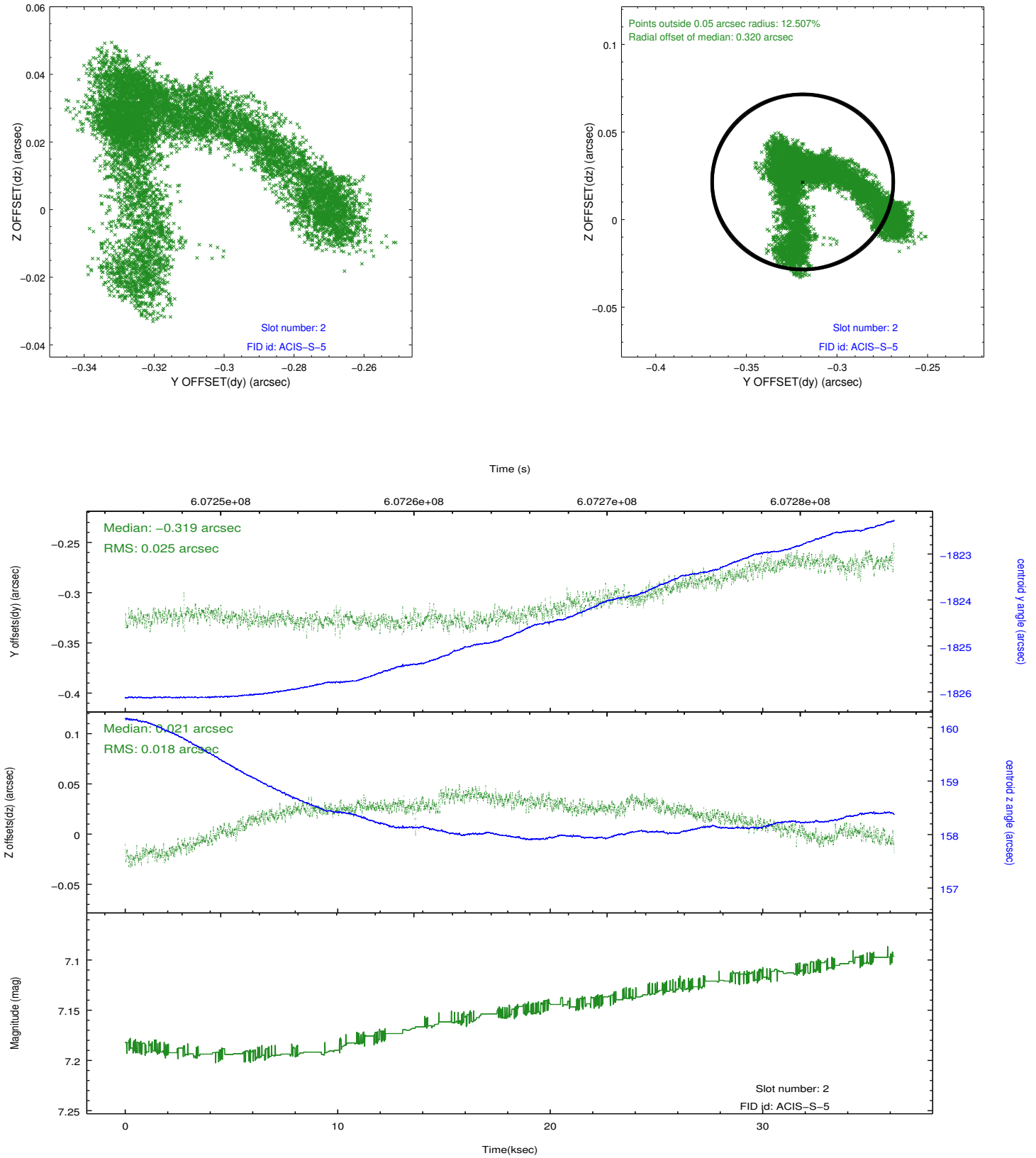
2.5.1 Slot 0



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)	2017.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.136901013613

A.2 Comments