

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21494 - L2 Version 1
Chandra X-Ray Center

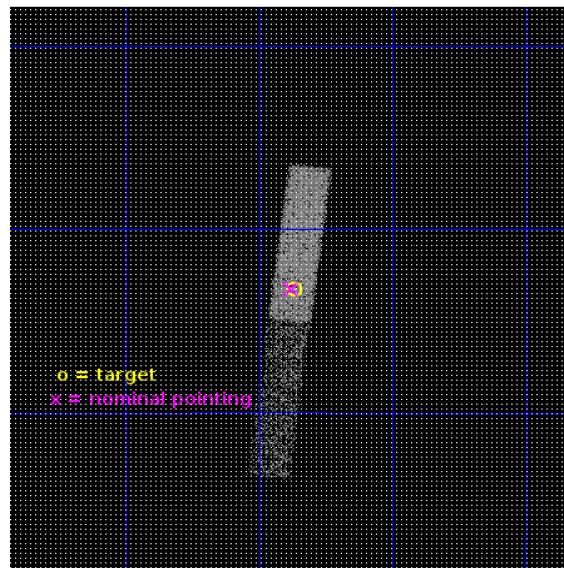
L2 Processing Date : Apr 30 2019

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

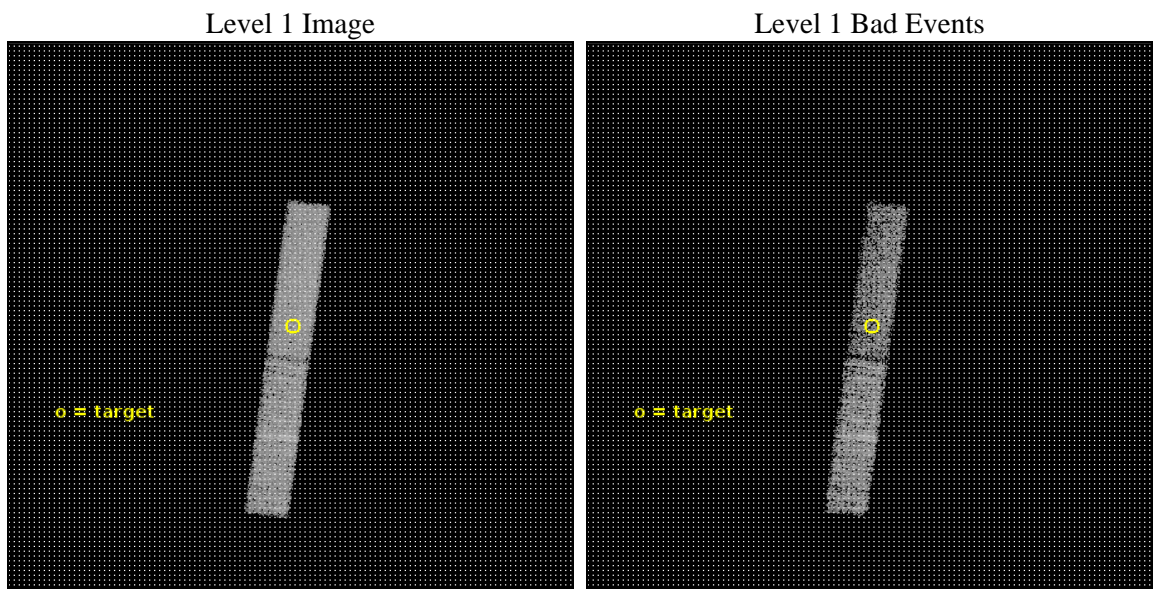
seq_num	703787	Sequence number
obs_id	21494	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC1217-209	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.091667	Observer's specified target RA [deg]
dec_targ	-21.220944	Observer's specified target Dec [deg]
ra_nom	185.09462216915	Nominal RA [deg]
dec_nom	-21.220747189571	Nominal Dec [deg]
roll_nom	277.48273997452	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10104.226189256	Sum of GTIs [s]
livetime	9663.5675107648	Livetime [s]
ontime6	10104.185149312	Sum of GTIs [s]
ontime7	10104.226189256	Sum of GTIs [s]
l2events	13927	Number of level 2 events



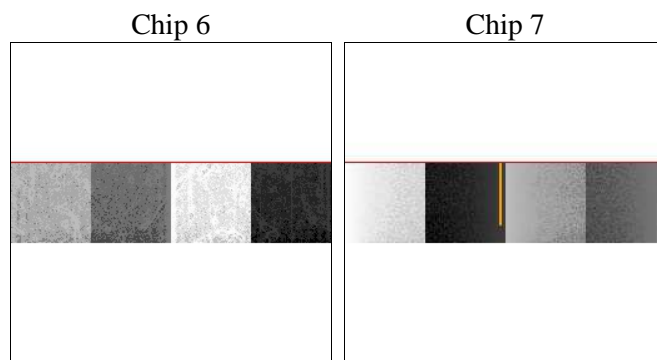
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10104.226189256	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	10104.185149312	Sum of GTIs [s]
date	2019-04-30T05:54:31	Date and time of file creation	ontime7	10104.226189256	Sum of GTIs [s]
revision	1	Processing version of data	l1events	50081	Number of level 1 events

2.1.4 Events

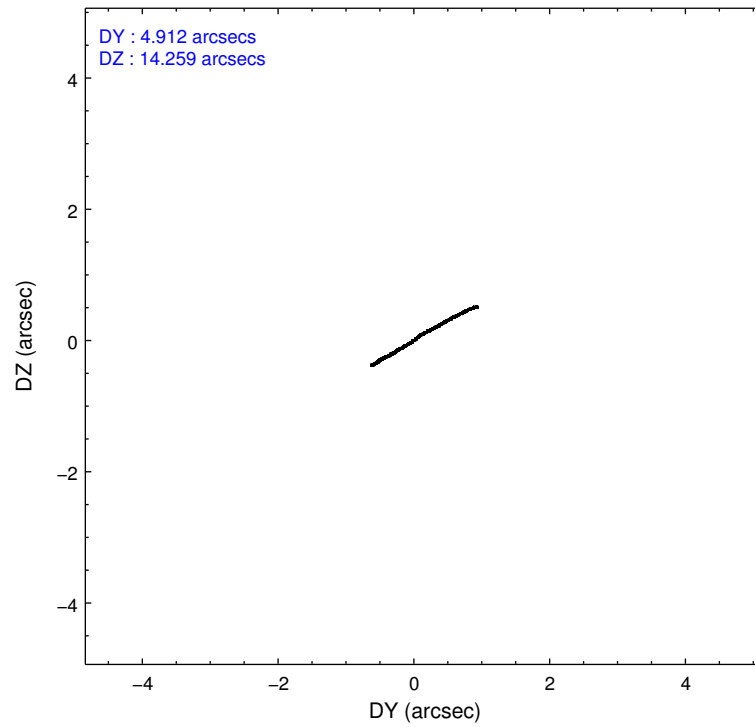
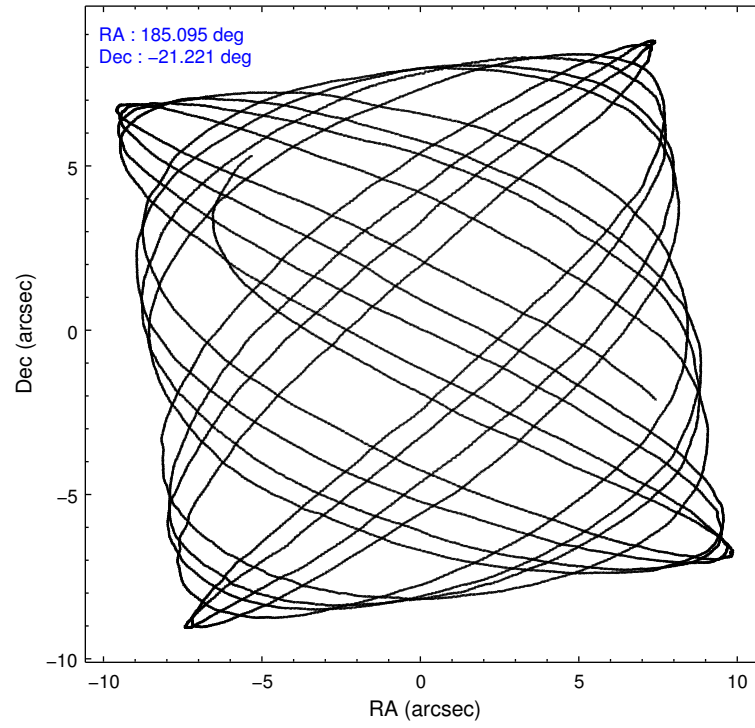
	ccd 6	ccd 7
level 1 events	24204	25877
rejected events	21627	13647
rejected %	89%	52%

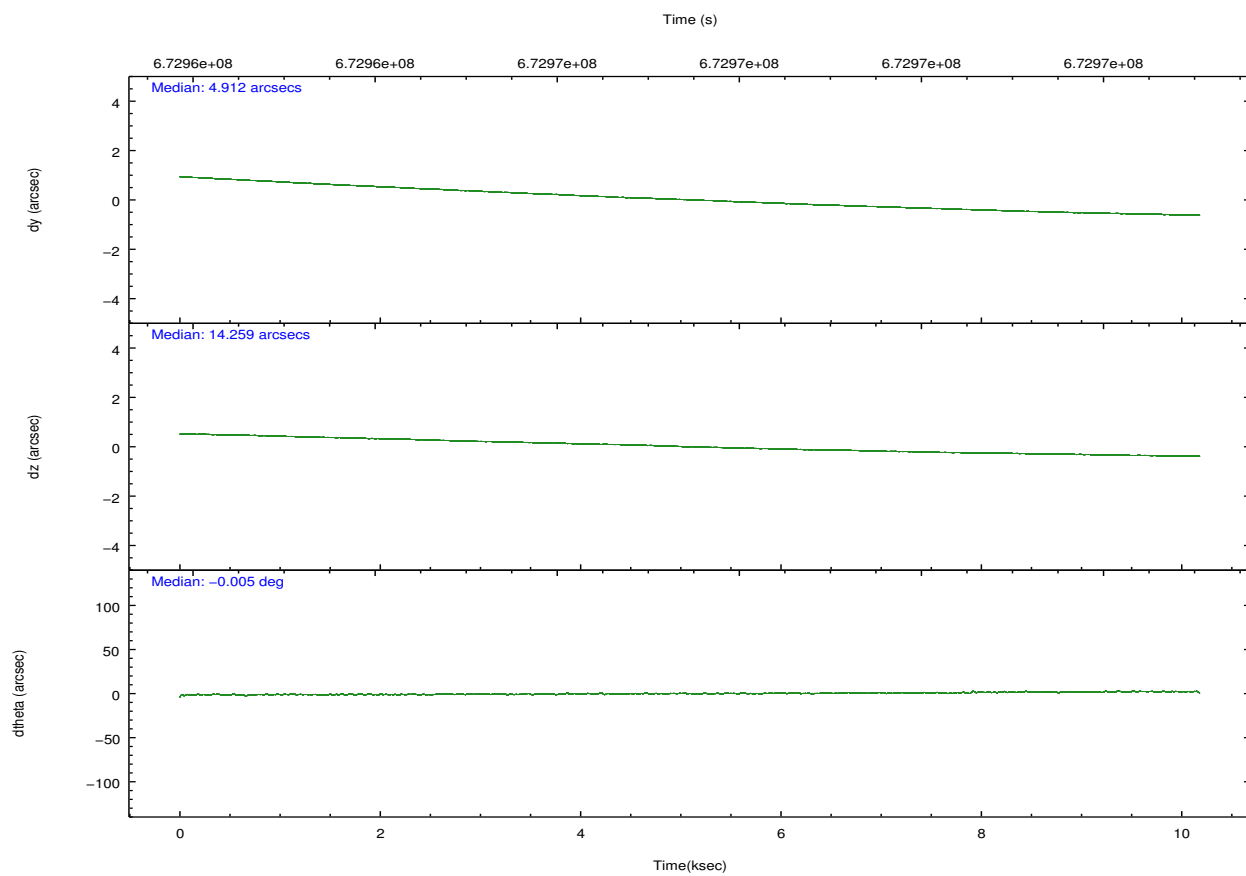
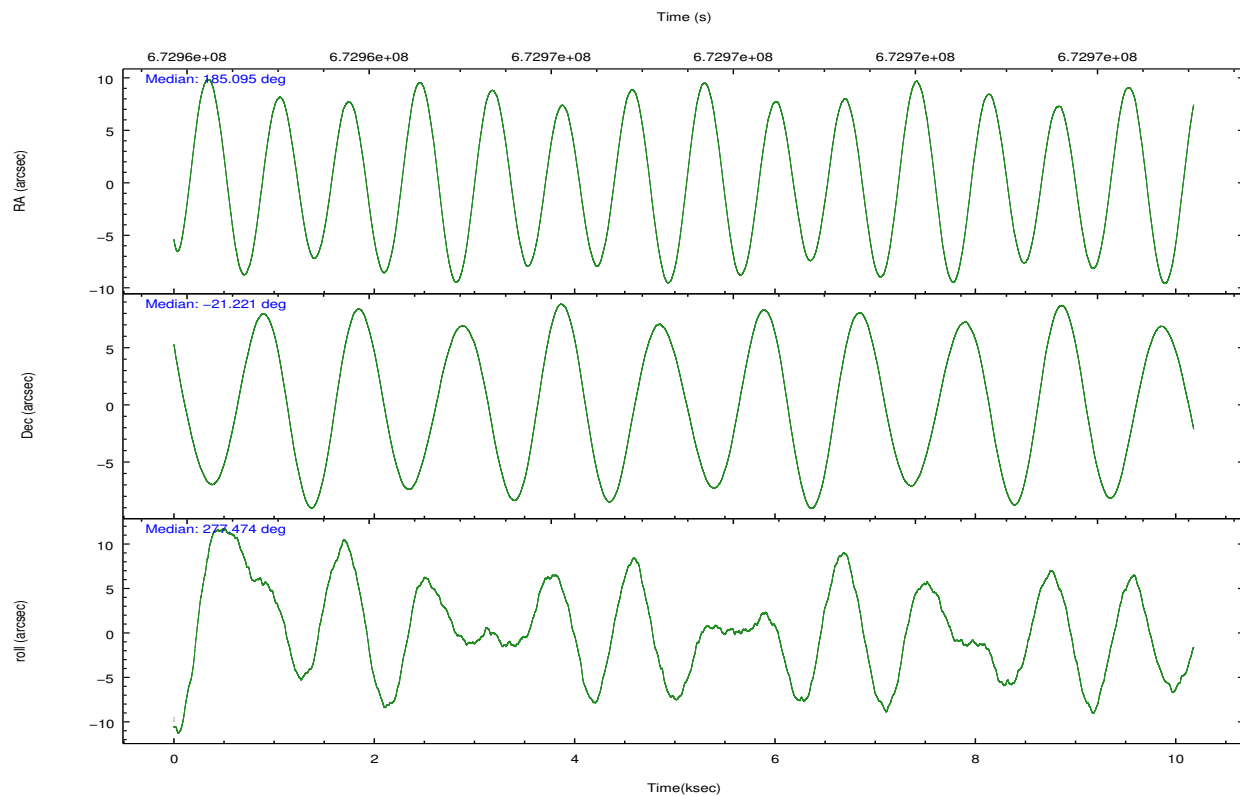
	ccd 6	ccd 7
grade 0 events	654	1190
	2%	4%
grade 1 events	4	49
	0%	0%
grade 2 events	580	2442
	2%	9%
grade 3 events	344	1318
	1%	5%
grade 4 events	347	1183
	1%	4%
grade 5 events	845	2528
	3%	9%
grade 6 events	653	6102
	2%	23%
grade 7 events	20777	11065
	85%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	185.076402	185.0946221691519	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-21.199202	-21.22074718957088	Subarray start row	385	385
[deg] Pointing Roll	277.319519	277.4827399745223	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	672962541.184000	672961318.30134			
Observation start date	2019-04-29T22:01:12	2019-04-29T21:41:58			
[s] Observation end time (MET)	672972541.184000	672973385.11456			
Observation end date	2019-04-30T00:47:52	2019-04-30T01:03:05			
Read mode	TIMED	TIMED			

2.3 Aspect



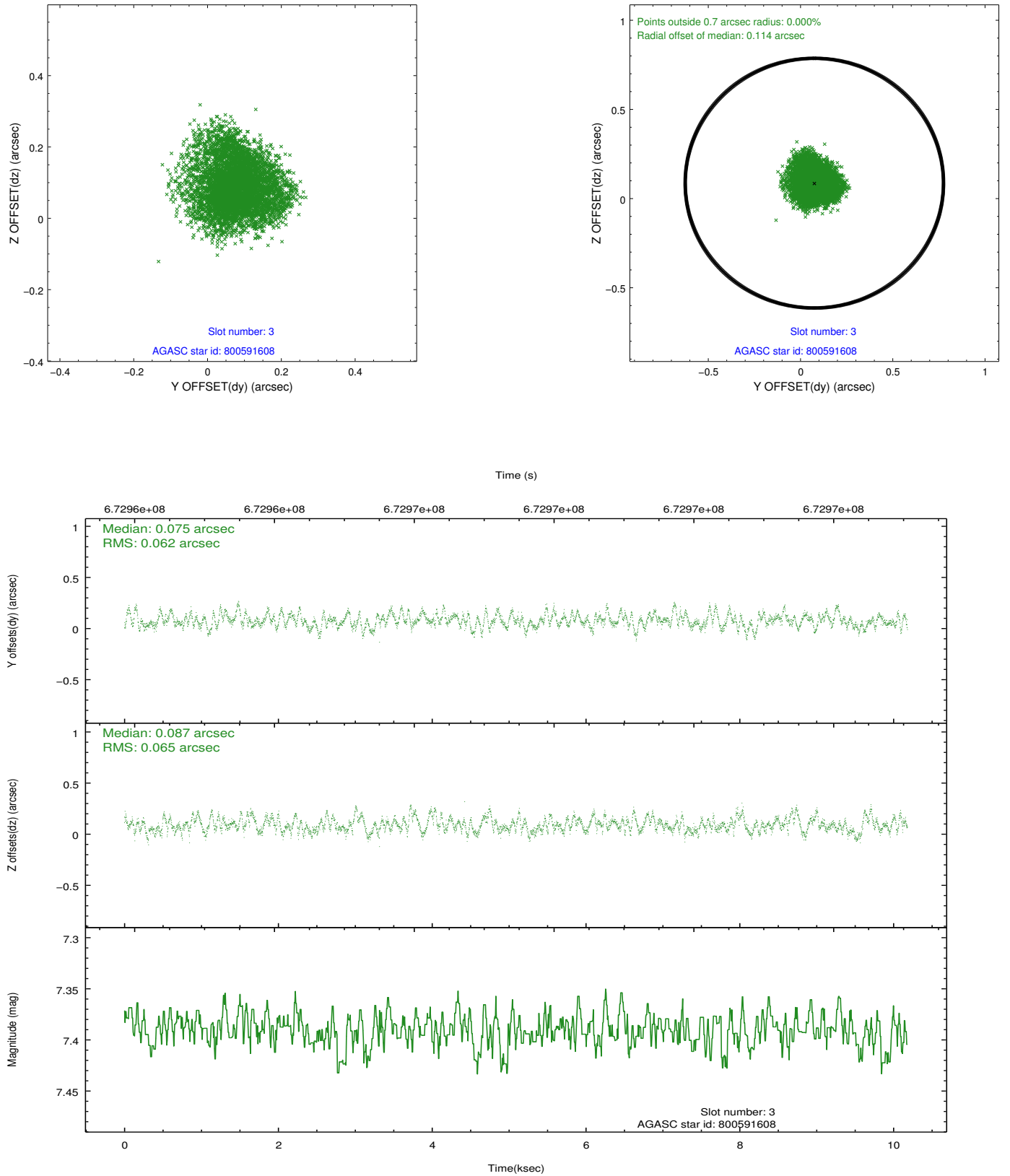


Slot Statistics

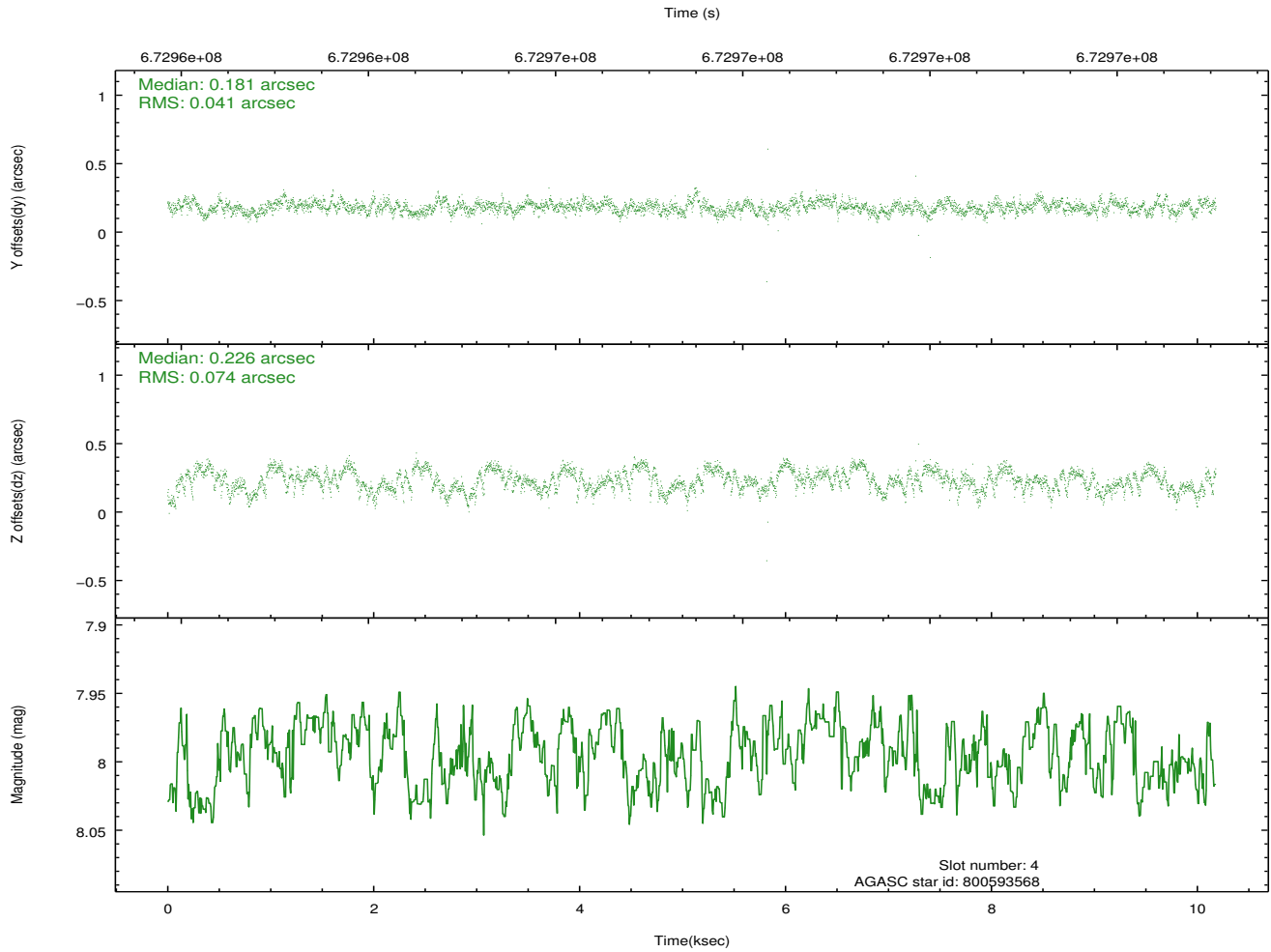
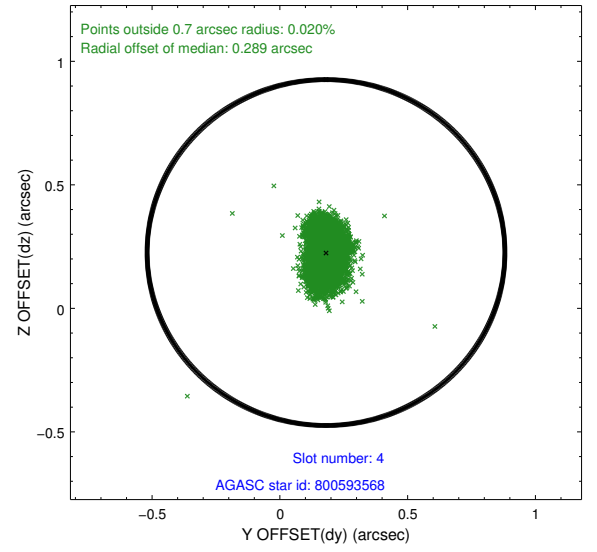
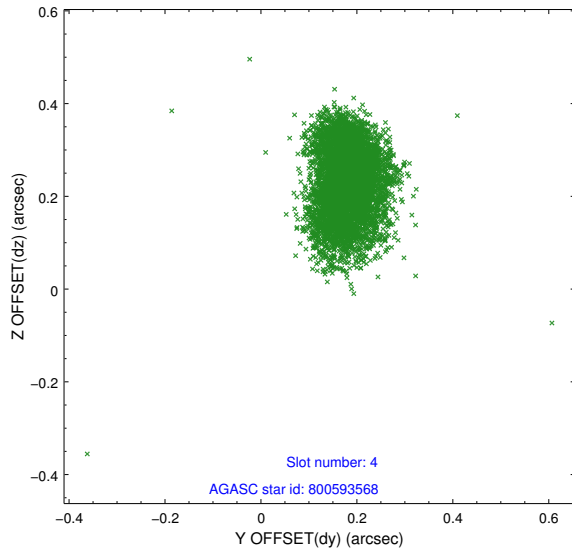
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.35	2483	1.000	-0.219	-0.159	0.018	0.027	0.000000	0.000000	55.36	-1864
1	FID		ACIS-S-4	7.23	2483	1.000	0.579	0.189	0.015	0.024	0.000000	0.000000	2156.29	172
2	FID		ACIS-S-5	7.22	2483	1.000	-0.387	-0.019	0.009	0.015	0.000000	0.000000	-1810.22	166
3	GUIDE	used	800591608	7.39	4965	1.000	0.075	0.087	0.098	0.152	184.556946	-20.840398	-1501.37	-1571
4	GUIDE	used	800593568	7.99	4967	1.000	0.181	0.226	0.089	0.142	184.461206	-20.863878	-1456.72	-1900
5	GUIDE	used	800598424	6.60	4967	1.000	-0.089	0.152	0.076	0.116	184.611099	-20.809778	-1587.43	-1375
6	GUIDE	used	800599008	9.09	4963	1.000	-0.168	-0.331	0.153	0.235	185.741495	-21.027433	-323.89	2294
7	GUIDE	used	800599104	9.12	4965	1.000	0.003	-0.136	0.156	0.243	184.984002	-21.493352	1011.68	-441

2.4 Star Slots

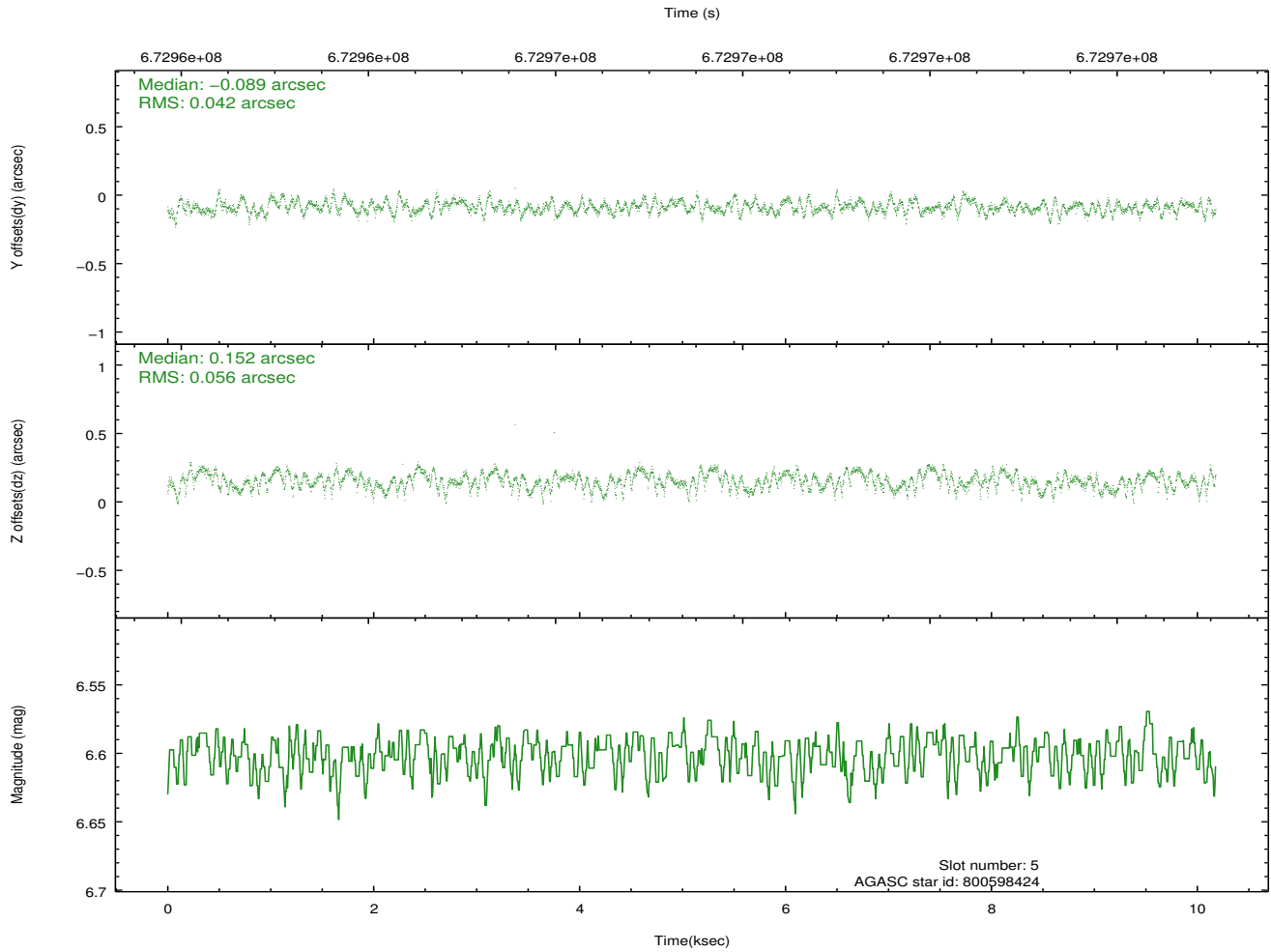
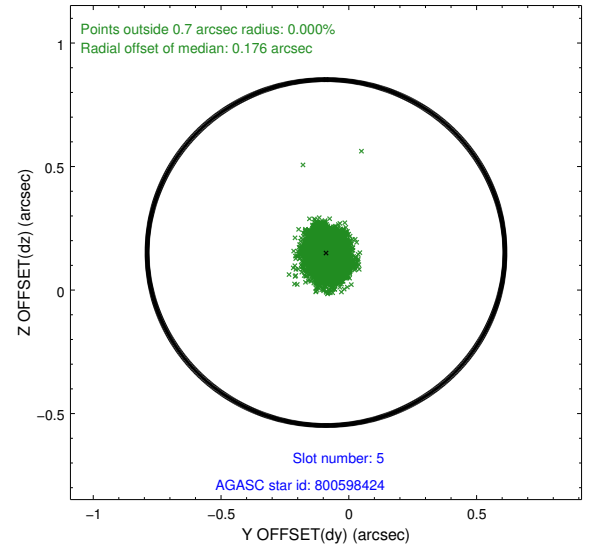
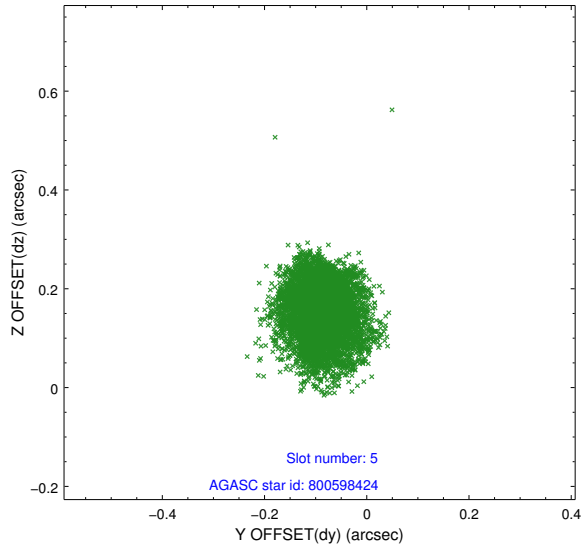
2.4.1 Slot 3



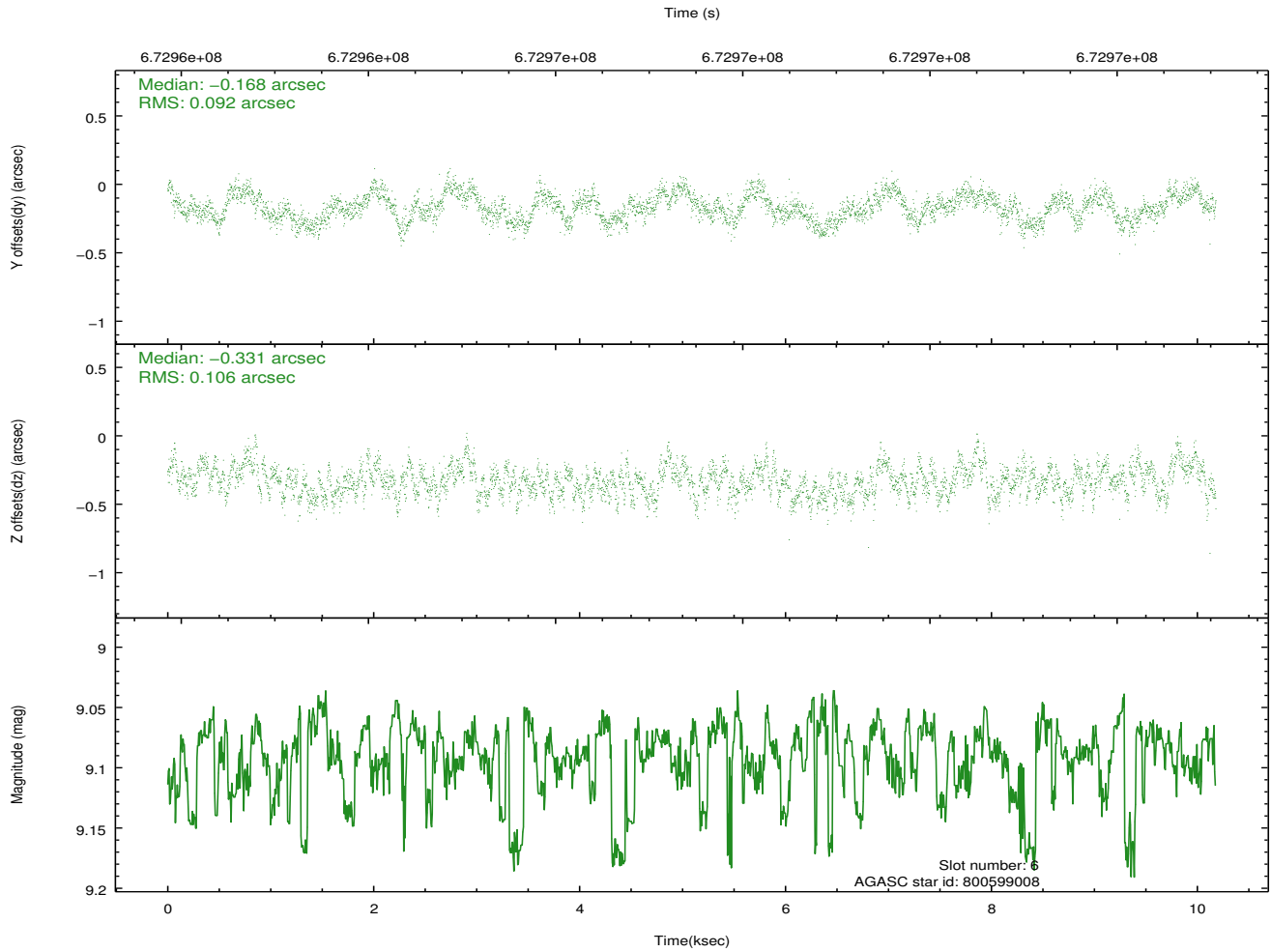
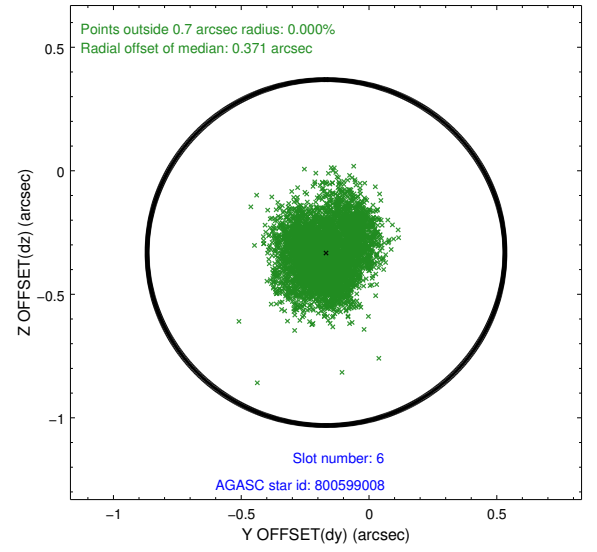
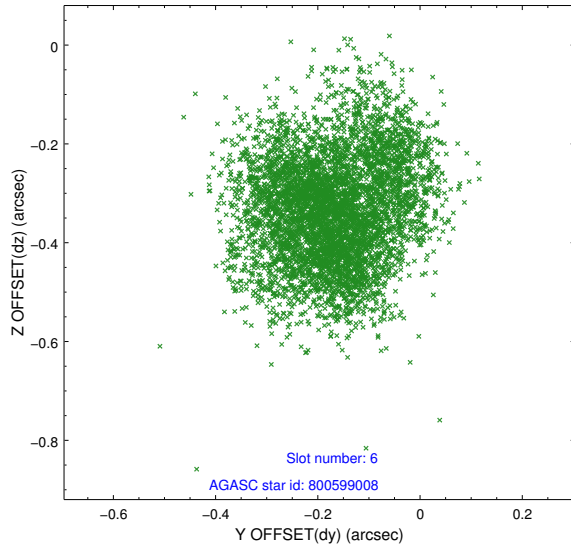
2.4.2 Slot 4



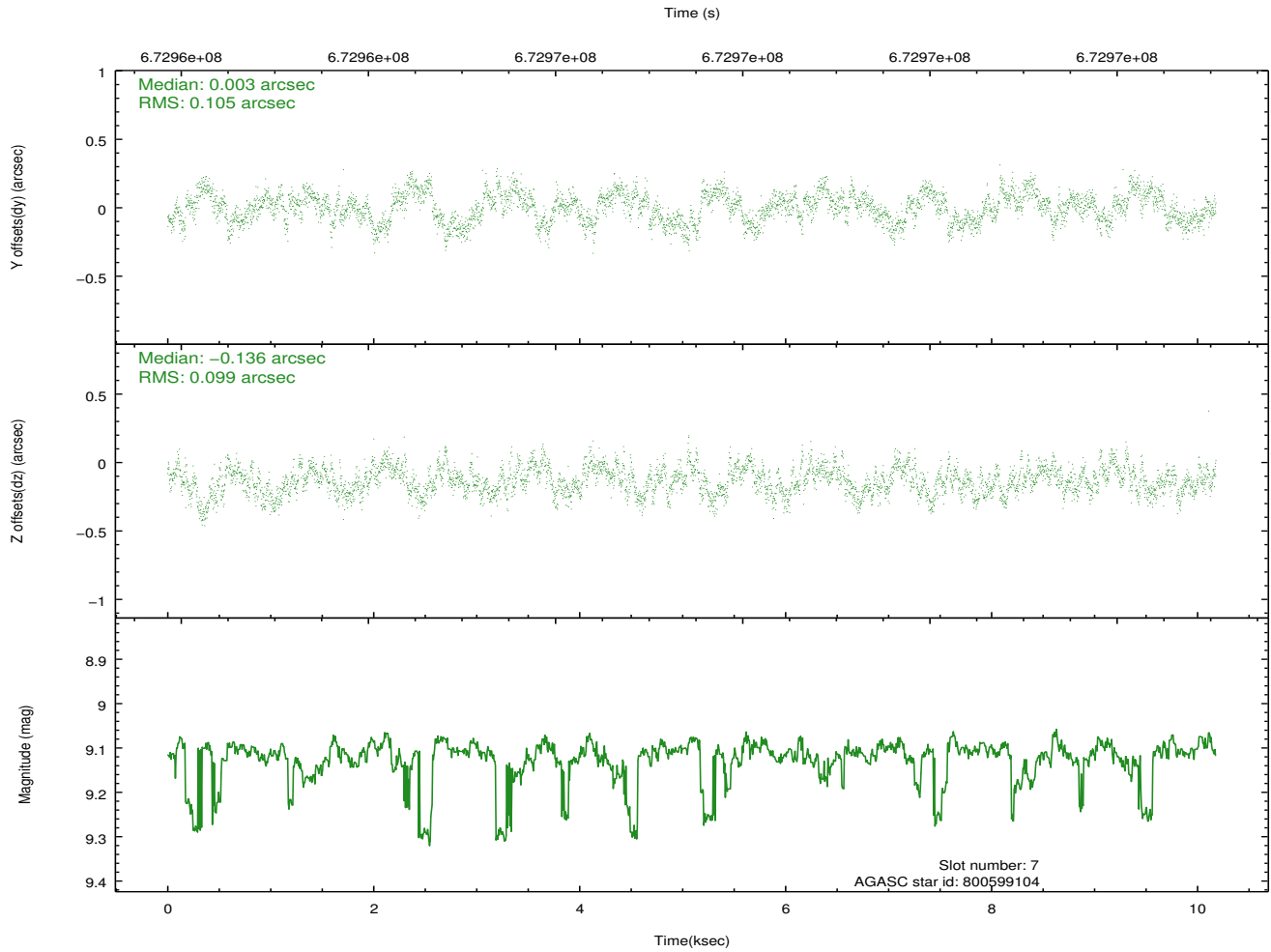
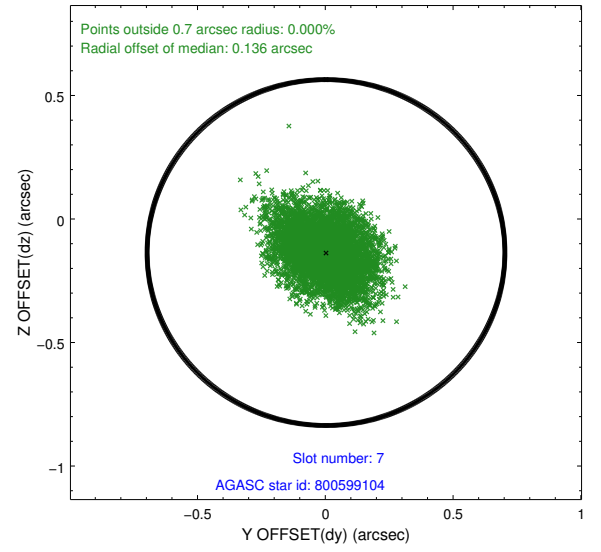
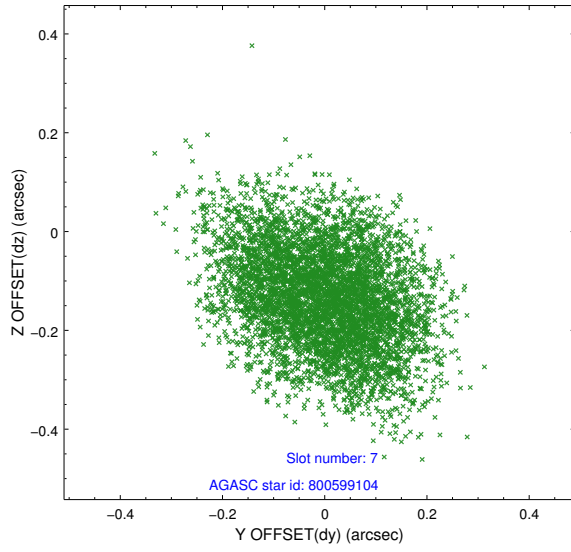
2.4.3 Slot 5



2.4.4 Slot 6

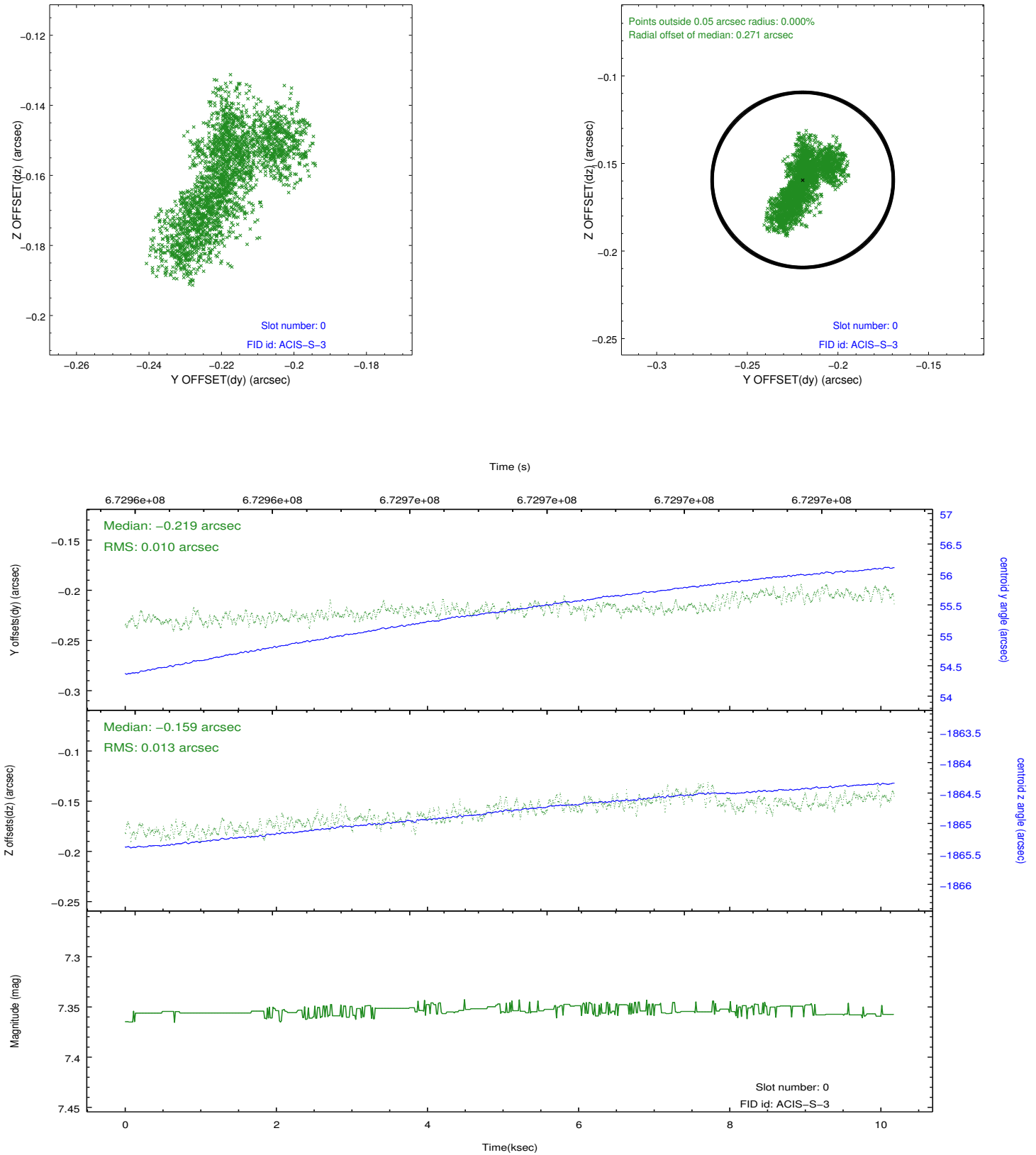


2.4.5 Slot 7

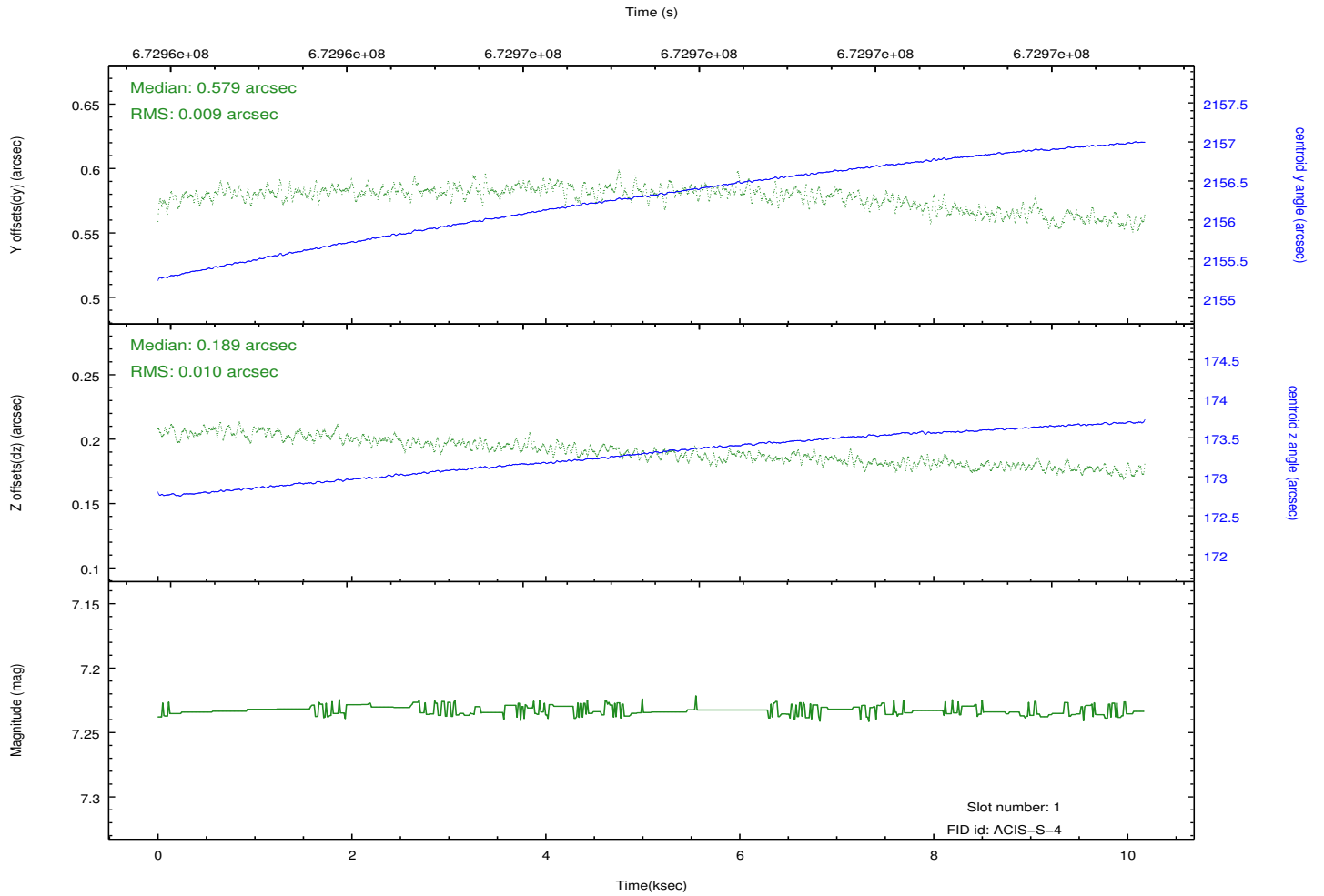
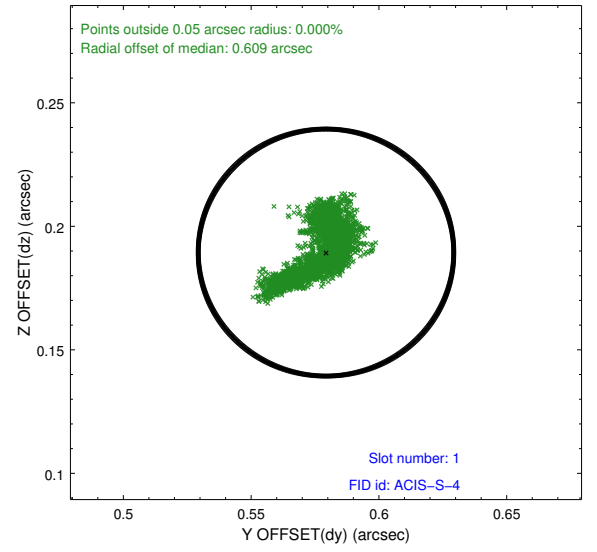
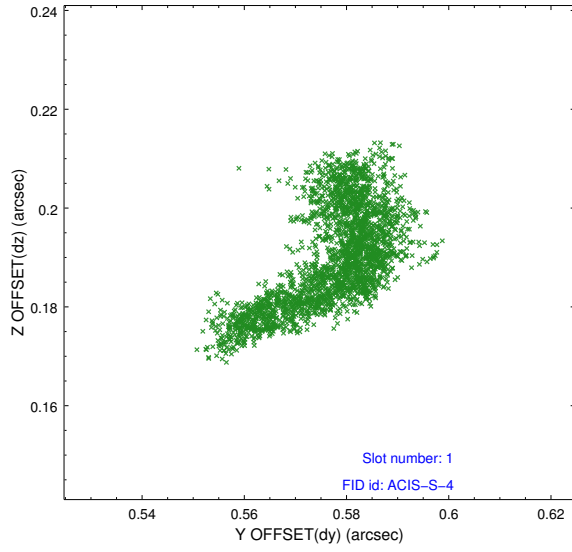


2.5 FID Slots

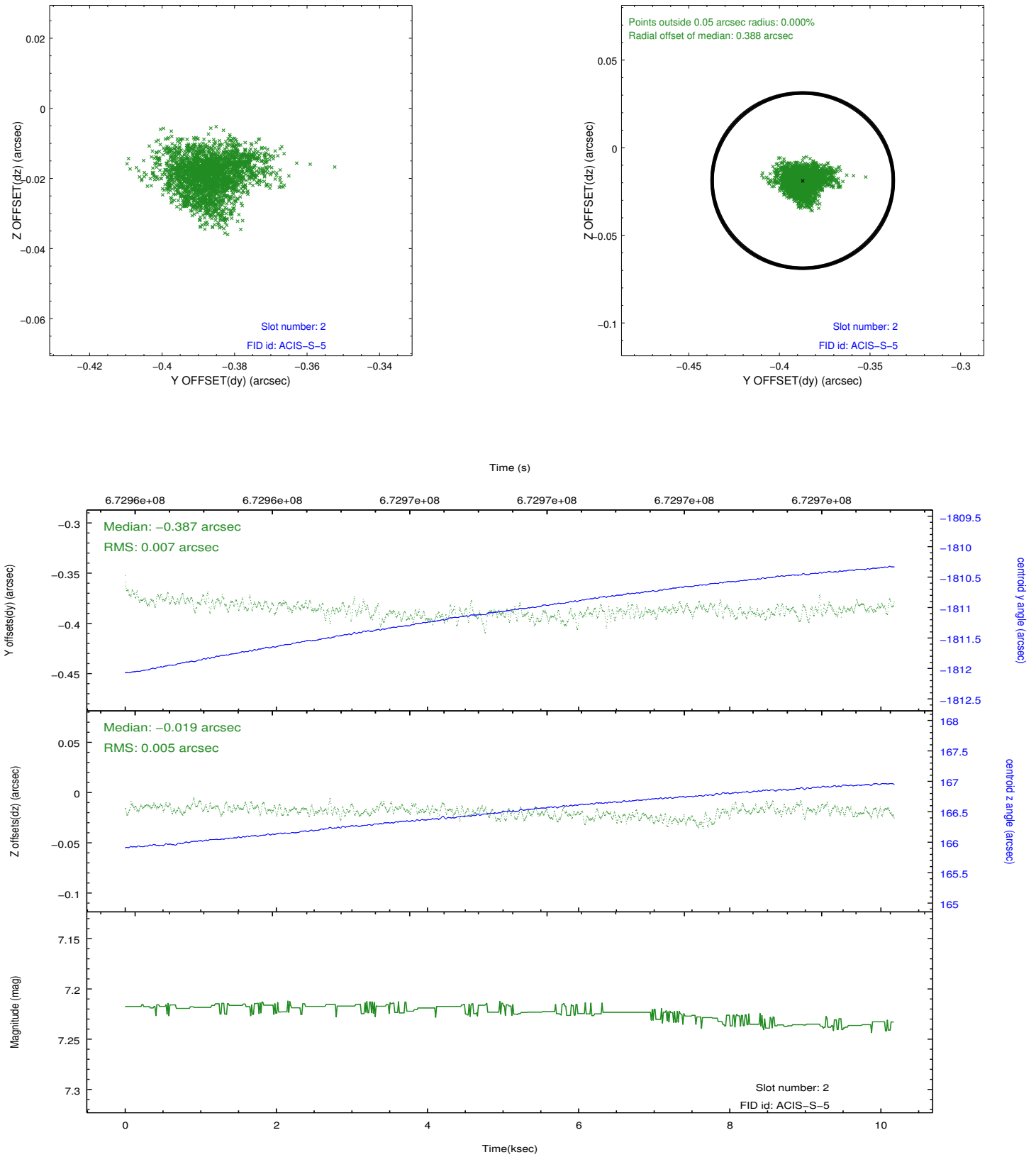
2.5.1 Slot 0



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)	2019.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.104226189256

A.2 Comments