

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1752 - L2 Version 4
Chandra X-Ray Center

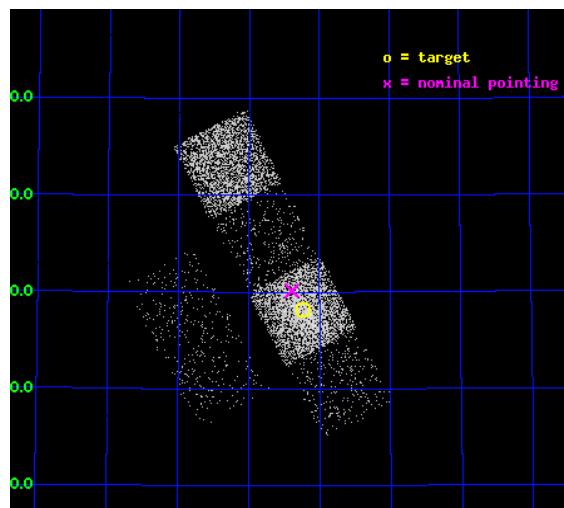
L2 Processing Date : Aug 30 2012

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

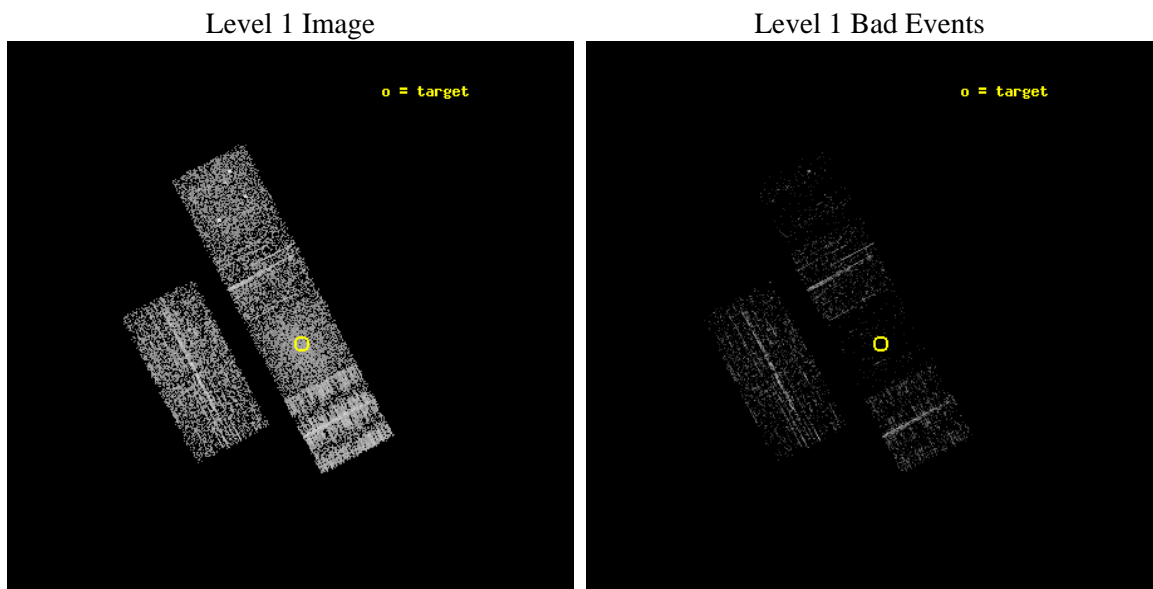
seq_num	100002	Sequence number
obs_id	1752	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	LINEAR 1999 S4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.05836	Observer's specified target RA [deg]
dec_targ	60.46979	Observer's specified target Dec [deg]
ra_nom	66.097956145666	Nominal RA [deg]
dec_nom	60.502426428443	Nominal Dec [deg]
roll_nom	62.454813445298	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1203.2000011057	Sum of GTIs [s]
livetime	1187.9643582116	Livetime [s]
ontime2	1203.2000011057	Sum of GTIs [s]
ontime3	1203.2000011057	Sum of GTIs [s]
ontime5	1203.2000011057	Sum of GTIs [s]
ontime6	1203.2000011057	Sum of GTIs [s]
ontime7	1203.2000011057	Sum of GTIs [s]
ontime8	1203.2000011057	Sum of GTIs [s]
l2events	8093	Number of level 2 events



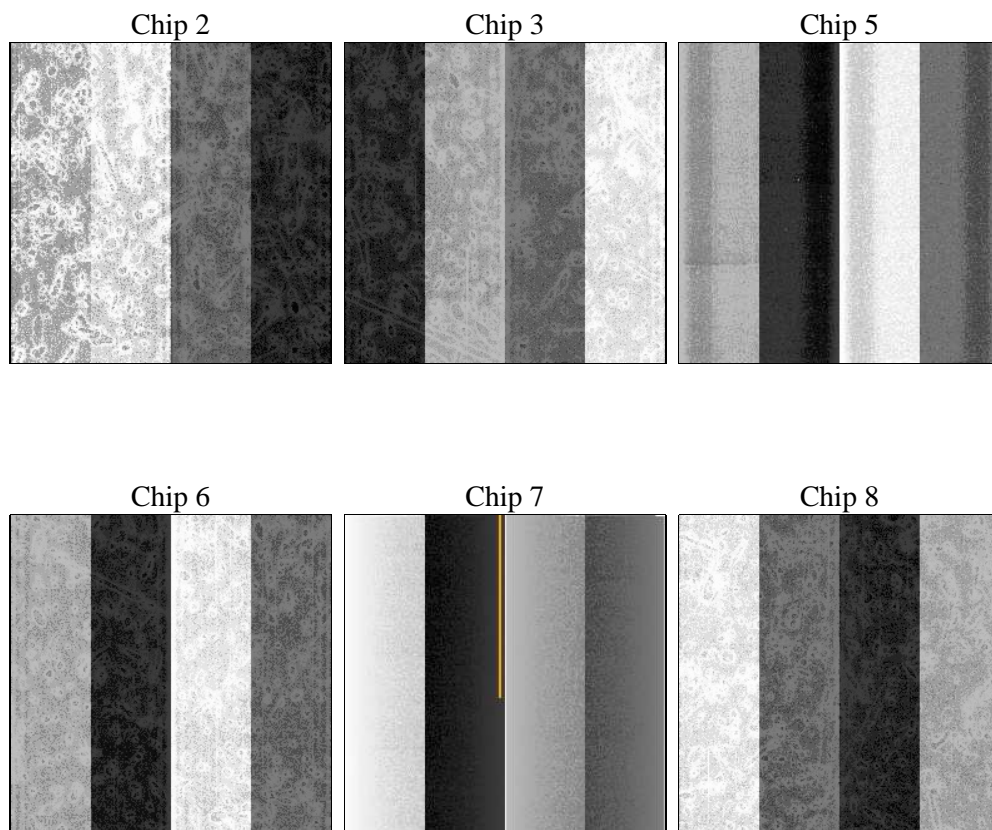
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1203.2000011057	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	1203.2000011057	Sum of GTIs [s]
date	2012-08-30T04:08:41	Date and time of file creation	ontime3	1203.2000011057	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1203.2000011057	Sum of GTIs [s]
			ontime6	1203.2000011057	Sum of GTIs [s]
			ontime7	1203.2000011057	Sum of GTIs [s]
			ontime8	1203.2000011057	Sum of GTIs [s]
			l1events	44332	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6738	5986	5808	6059	6165	13576
rejected events	6249	5769	2231	5558	1908	7262
rejected %	92%	96%	38%	91%	30%	53%

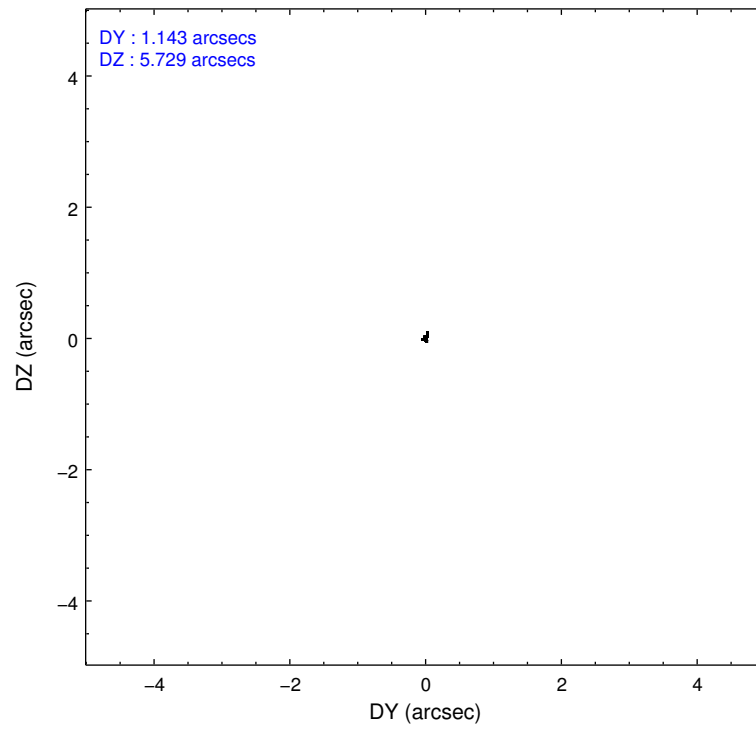
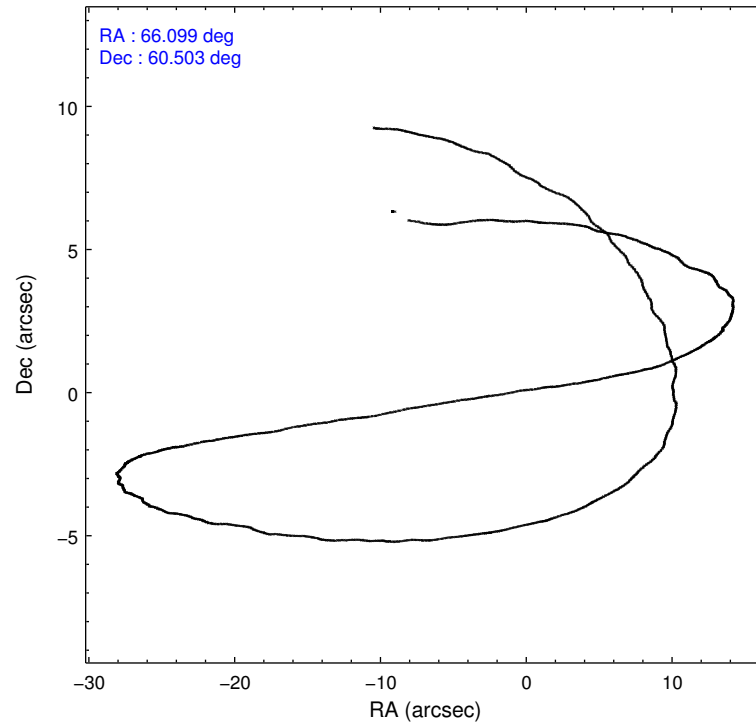
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	365	174	2087	487	2096	3023
	5%	2%	35%	8%	33%	22%
grade 1 events	4	1	10	4	8	31
	0%	0%	0%	0%	0%	0%
grade 2 events	115	39	1361	99	1558	881
	1%	0%	23%	1%	25%	6%
grade 3 events	45	36	462	49	639	1550
	0%	0%	7%	0%	10%	11%
grade 4 events	49	26	466	27	617	1434
	0%	0%	8%	0%	10%	10%
grade 5 events	4	1	137	2	69	79
	0%	0%	2%	0%	1%	0%
grade 6 events	33	10	591	11	923	1242
	0%	0%	10%	0%	14%	9%
grade 7 events	6123	5699	694	5380	255	5336
	90%	95%	11%	88%	4%	39%

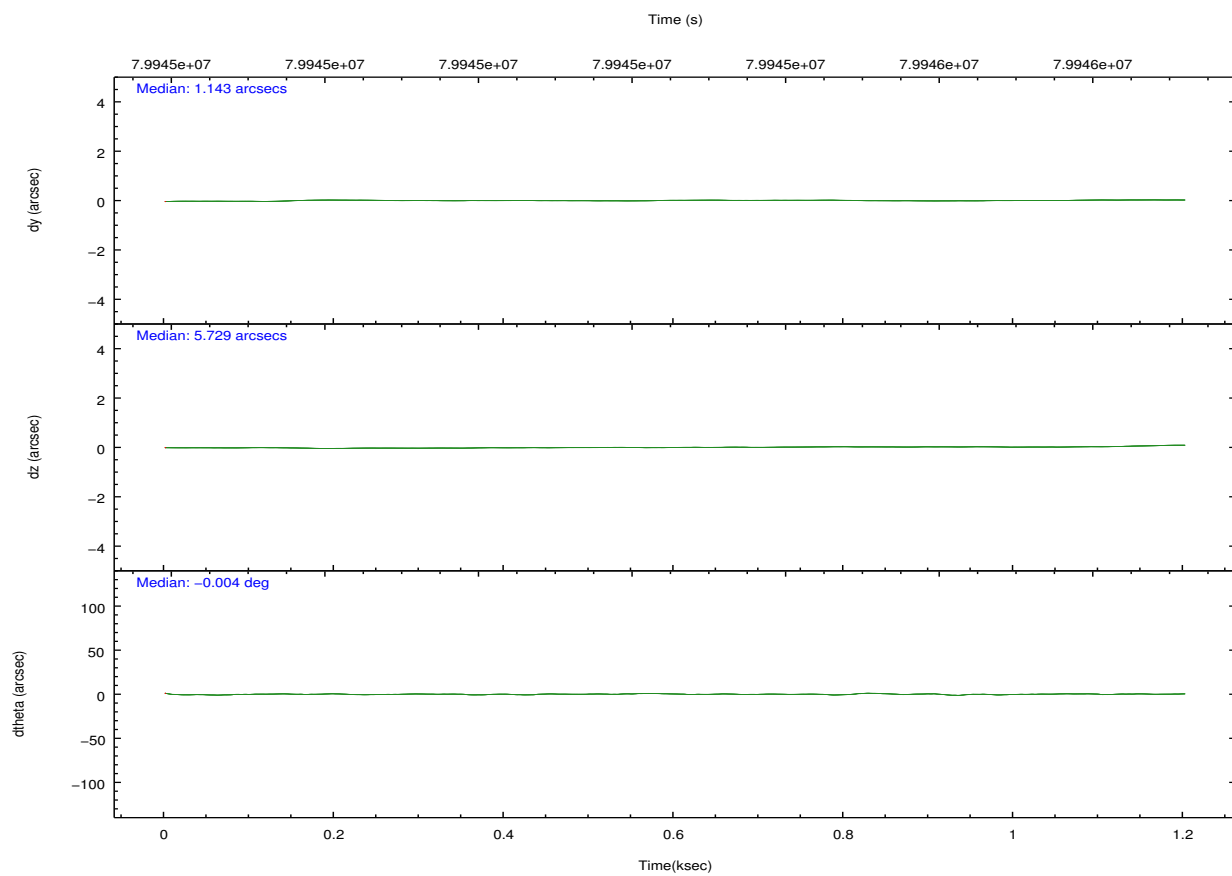
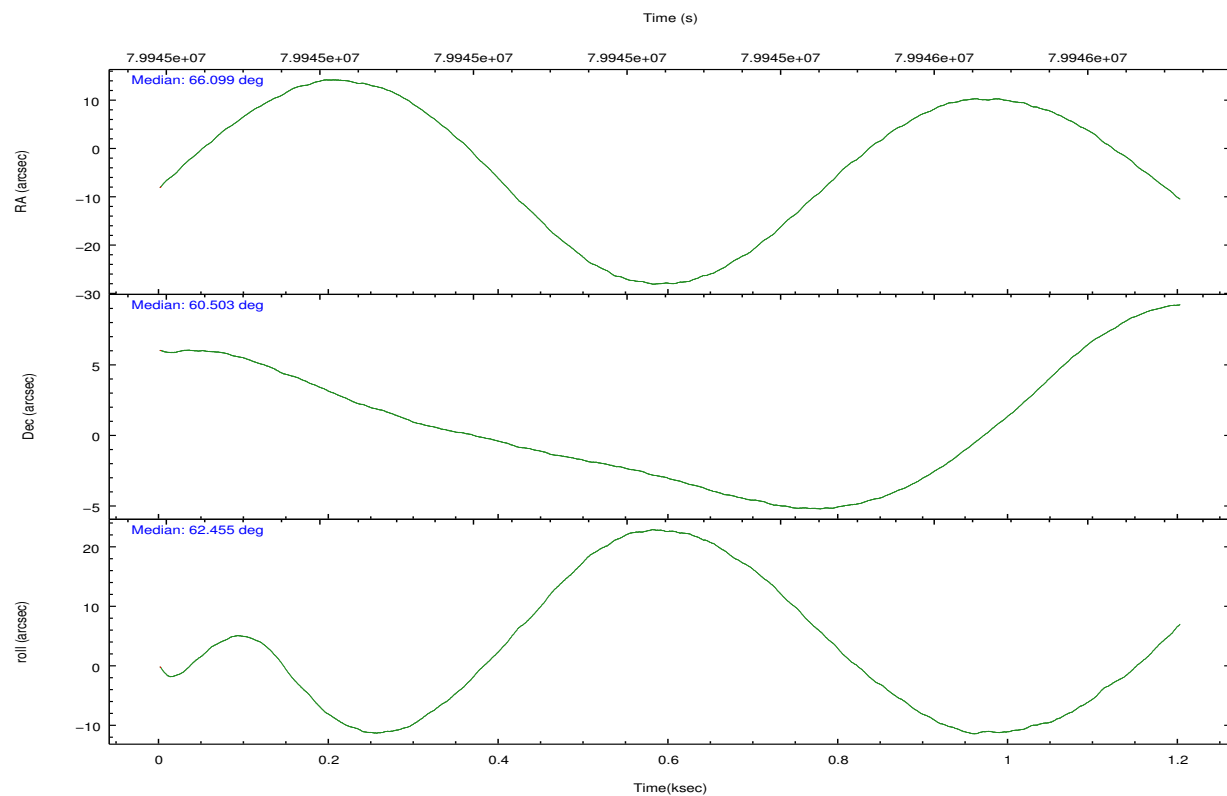
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	66.099720	66.09795614566568
[deg] Pointing Dec	60.474903	60.5024264284429
[deg] Pointing Roll	62.296803	62.45481344529797
[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)	79944859.184000	79944483.094552
Observation start date	2000-07-14T06:53:15	2000-07-14T06:48:03
[s] Observation end time (MET)	79945859.184000	79945992.919607
Observation end date	2000-07-14T07:09:55	2000-07-14T07:13:12
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



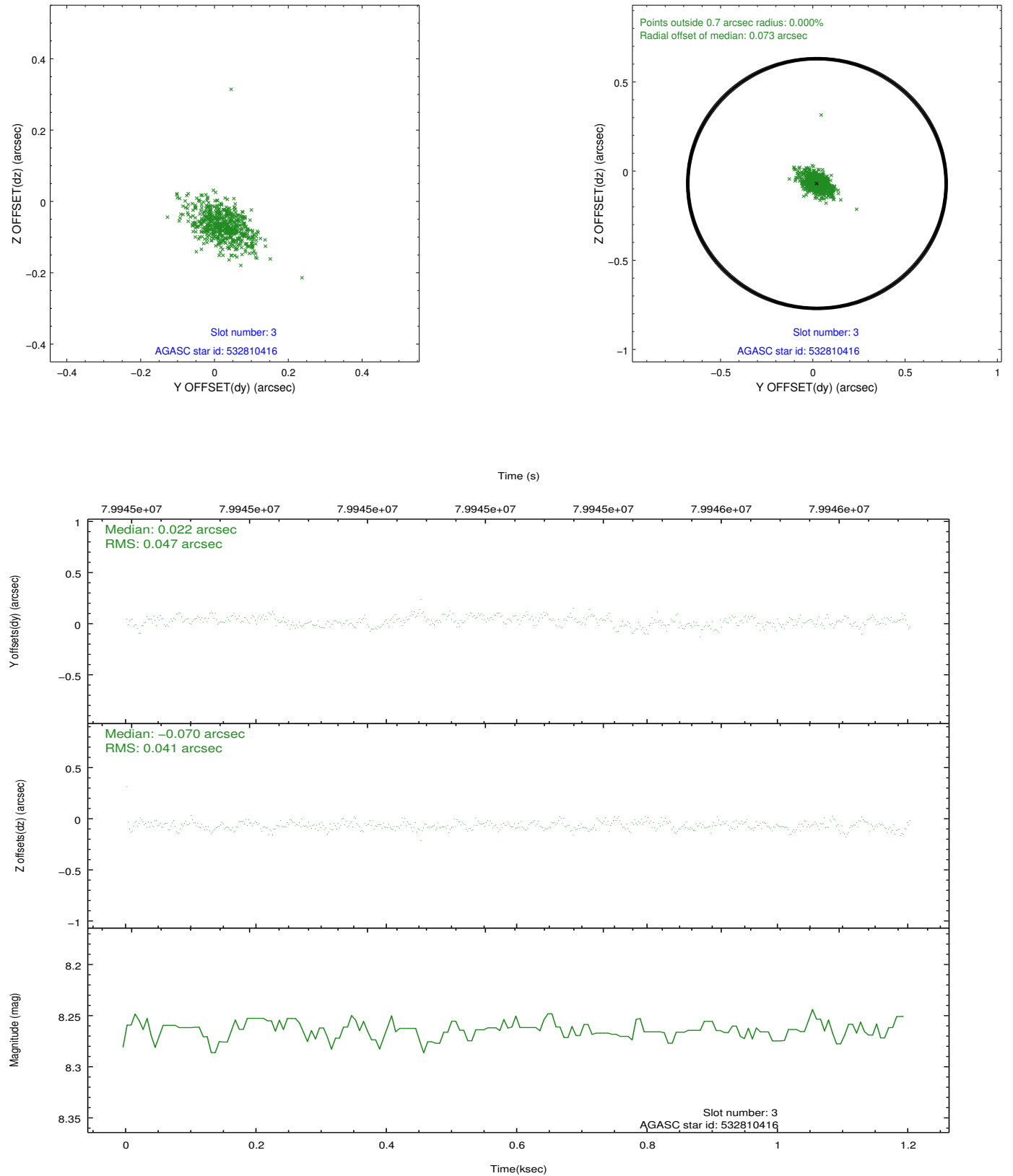


Slot Statistics

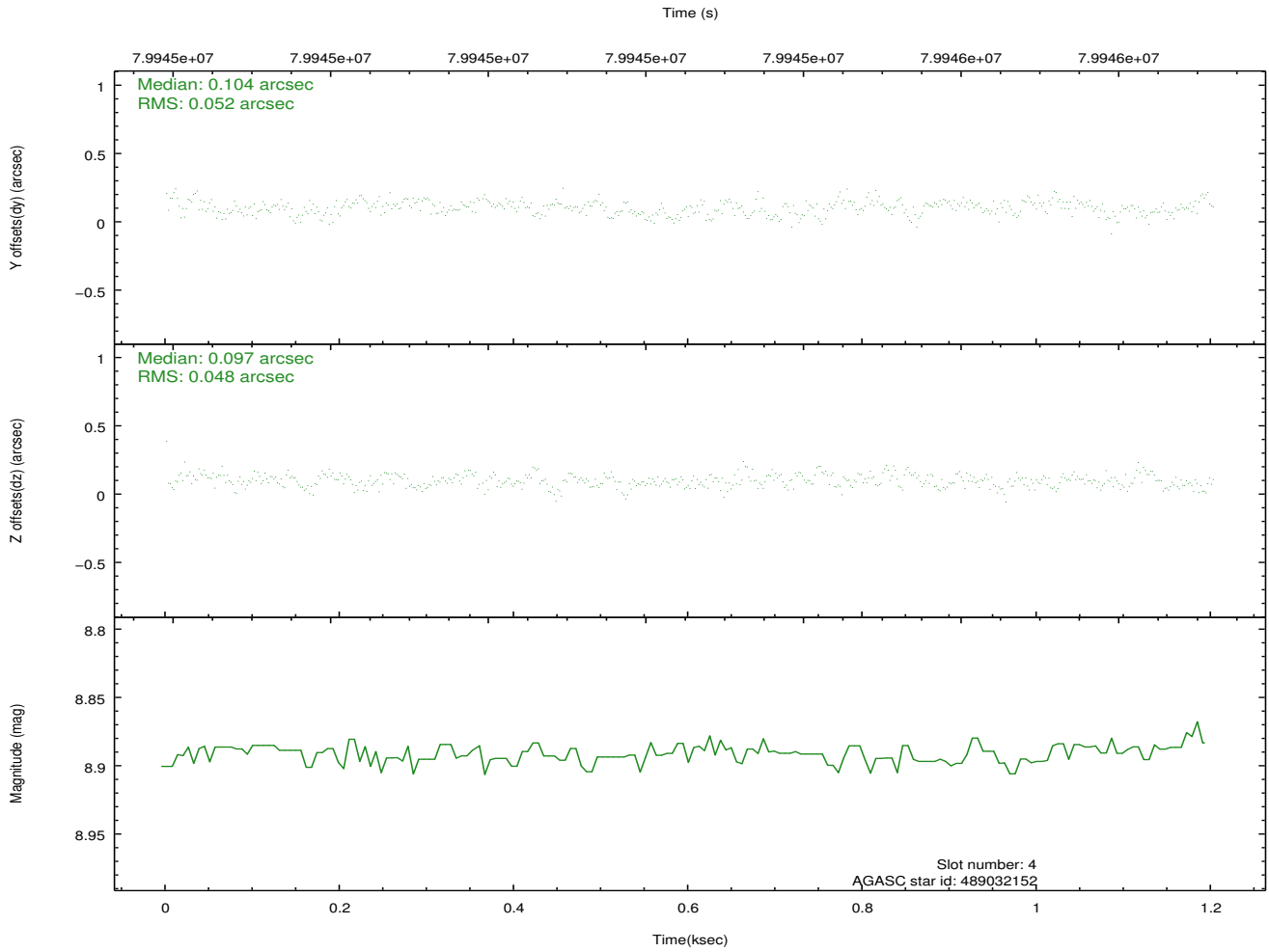
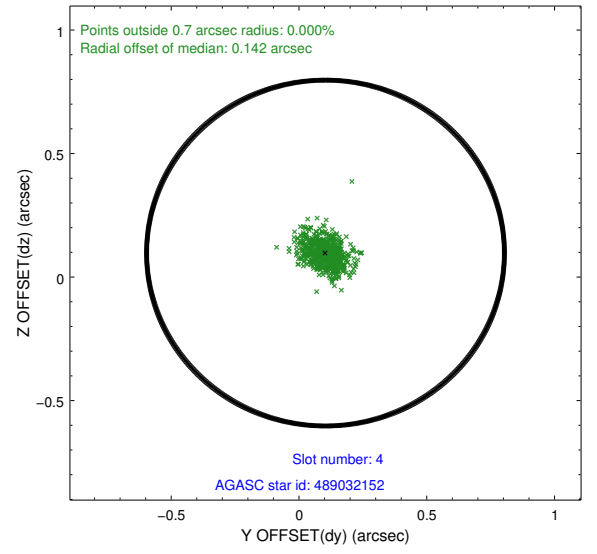
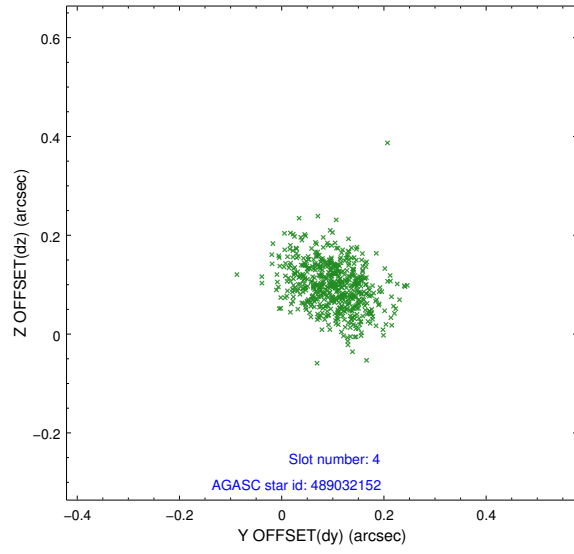
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	294	-0.037	0.012	0.006	0.010	0.000000	0.000000	-753.76	-1726.86
1	FID	ACIS-S-4	7.21	294	-0.012	0.015	0.008	0.014	0.000000	0.000000	2157.04	175.94
2	FID	ACIS-S-5	7.24	294	0.018	-0.017	0.007	0.013	0.000000	0.000000	-1799.42	175.84
3	GUIDE	532810416	8.26	587	0.022	-0.070	0.061	0.105	65.589506	60.260431	-1105.85	449.58
4	GUIDE	489032152	8.89	586	0.104	0.097	0.073	0.123	66.116960	59.873927	-1904.65	-1032.30
5	GUIDE	532808776	9.06	587	-0.127	-0.009	0.093	0.153	66.101653	61.223764	2383.25	1248.88
6	GUIDE	532811696	9.36	587	0.009	0.076	0.083	0.142	66.012975	60.297248	-635.84	-157.82
7	GUIDE	532820840	9.18	586	-0.010	-0.094	0.085	0.146	65.827585	60.819790	875.17	1000.44

2.4 Star Slots

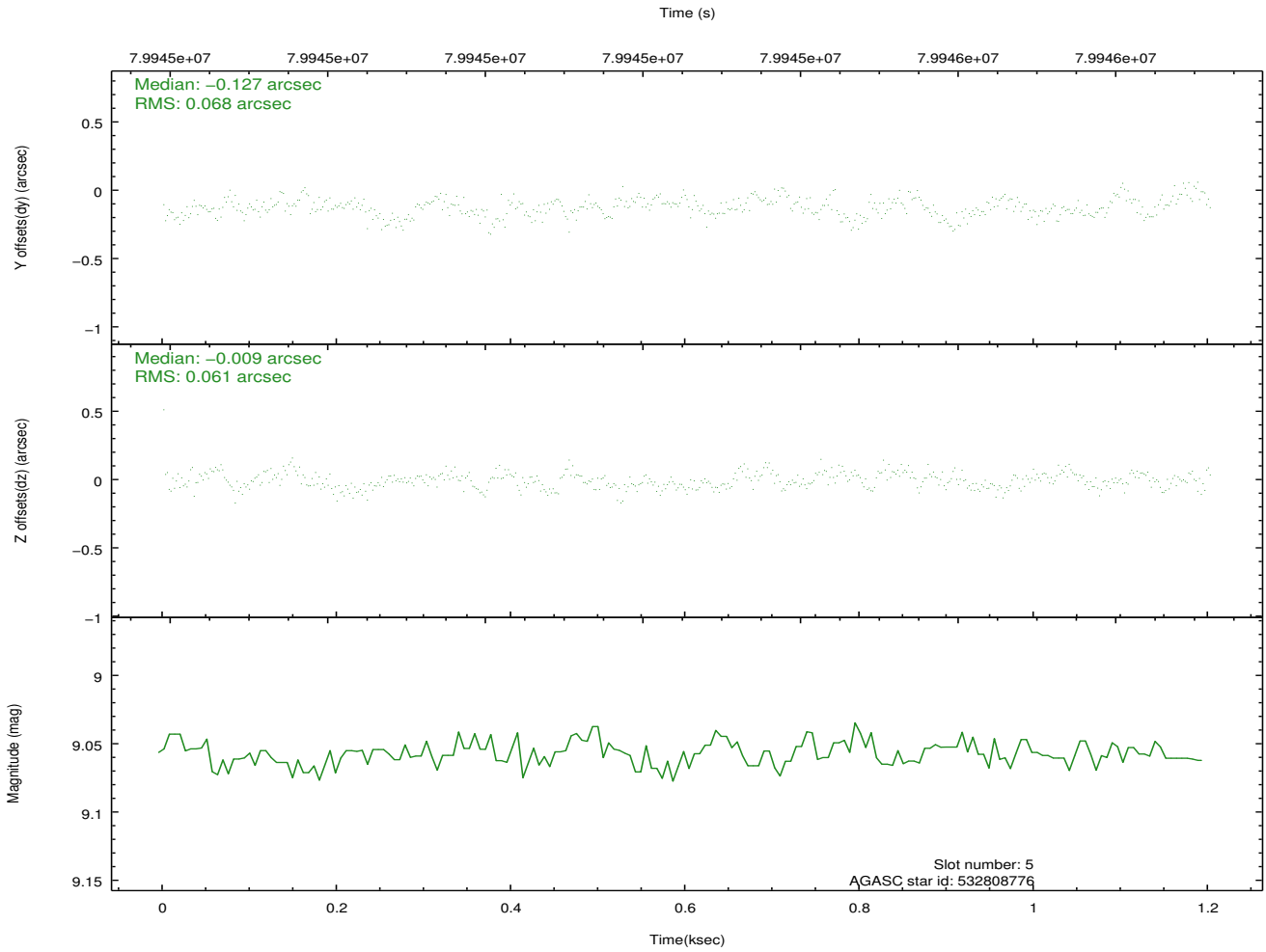
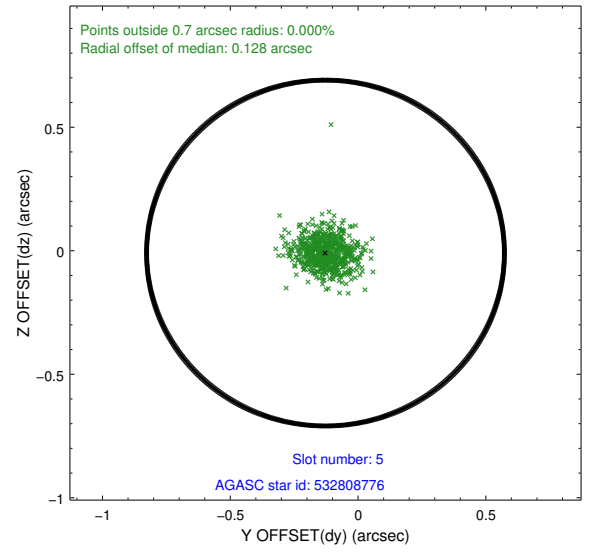
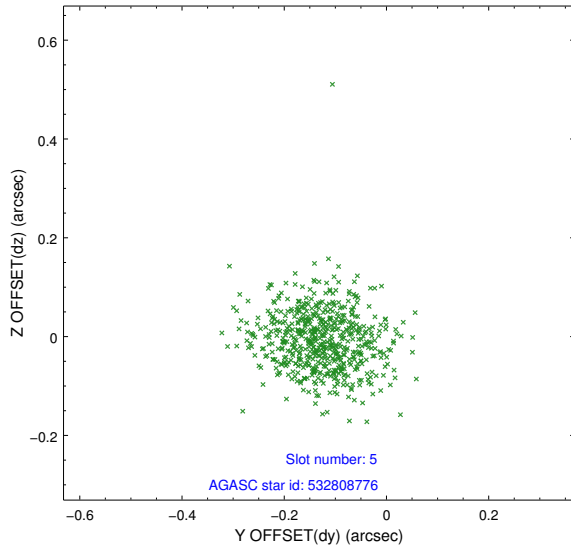
2.4.1 Slot 3



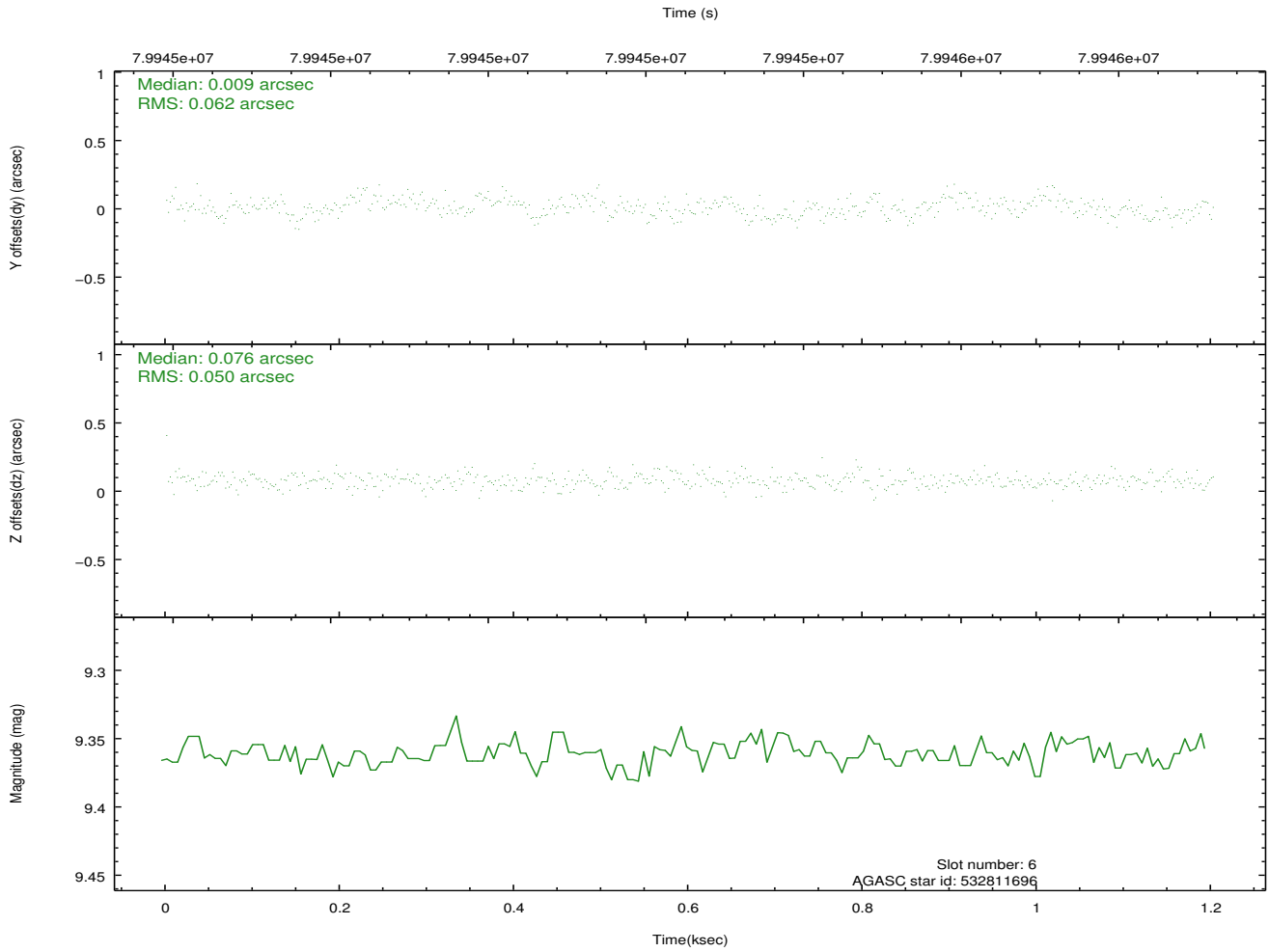
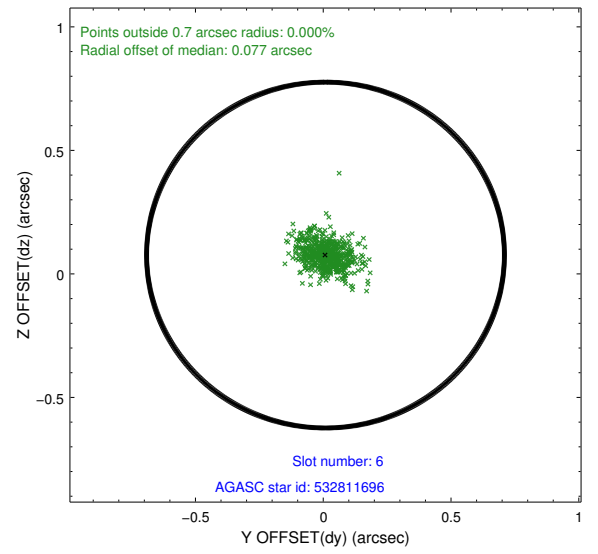
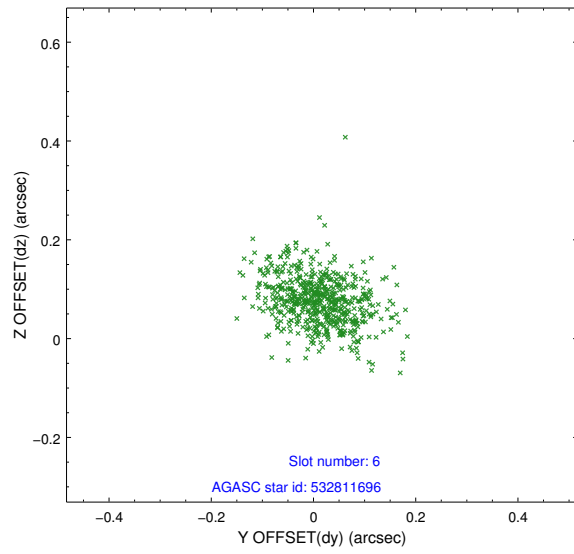
2.4.2 Slot 4



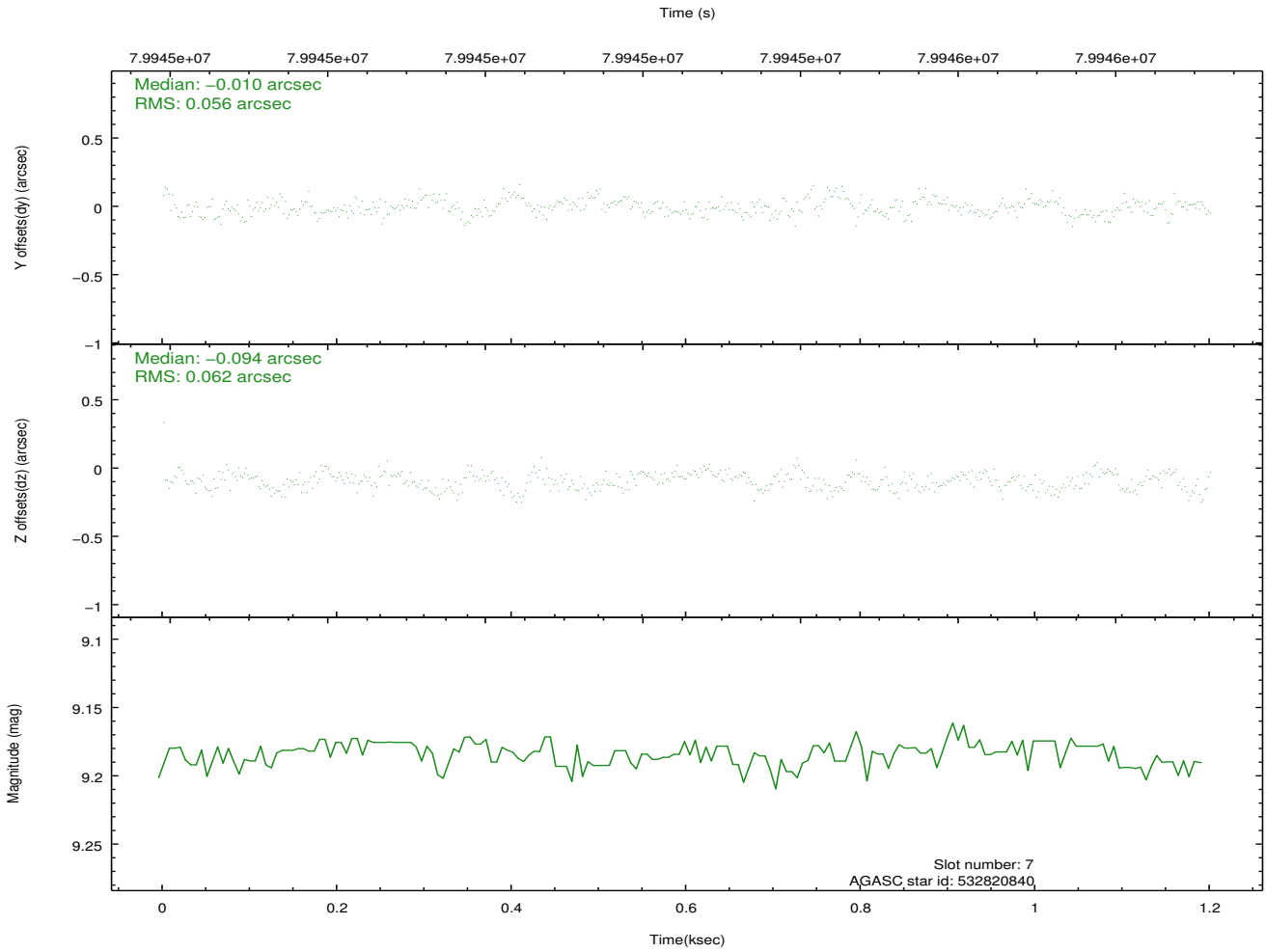
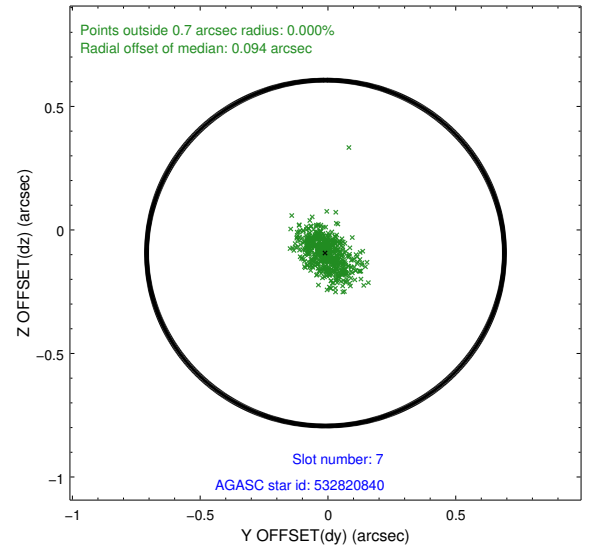
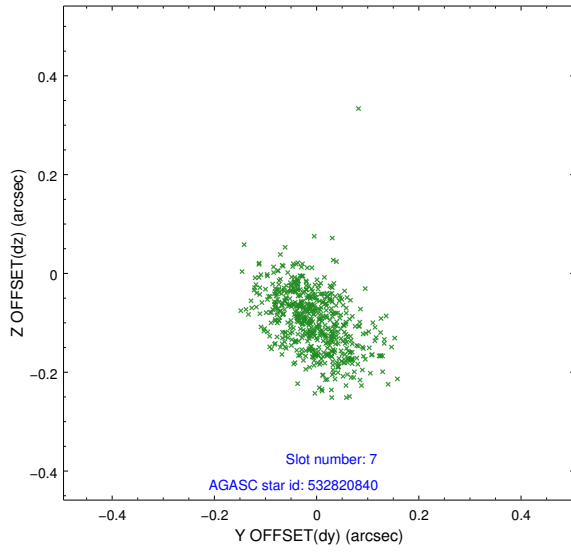
2.4.3 Slot 5



2.4.4 Slot 6

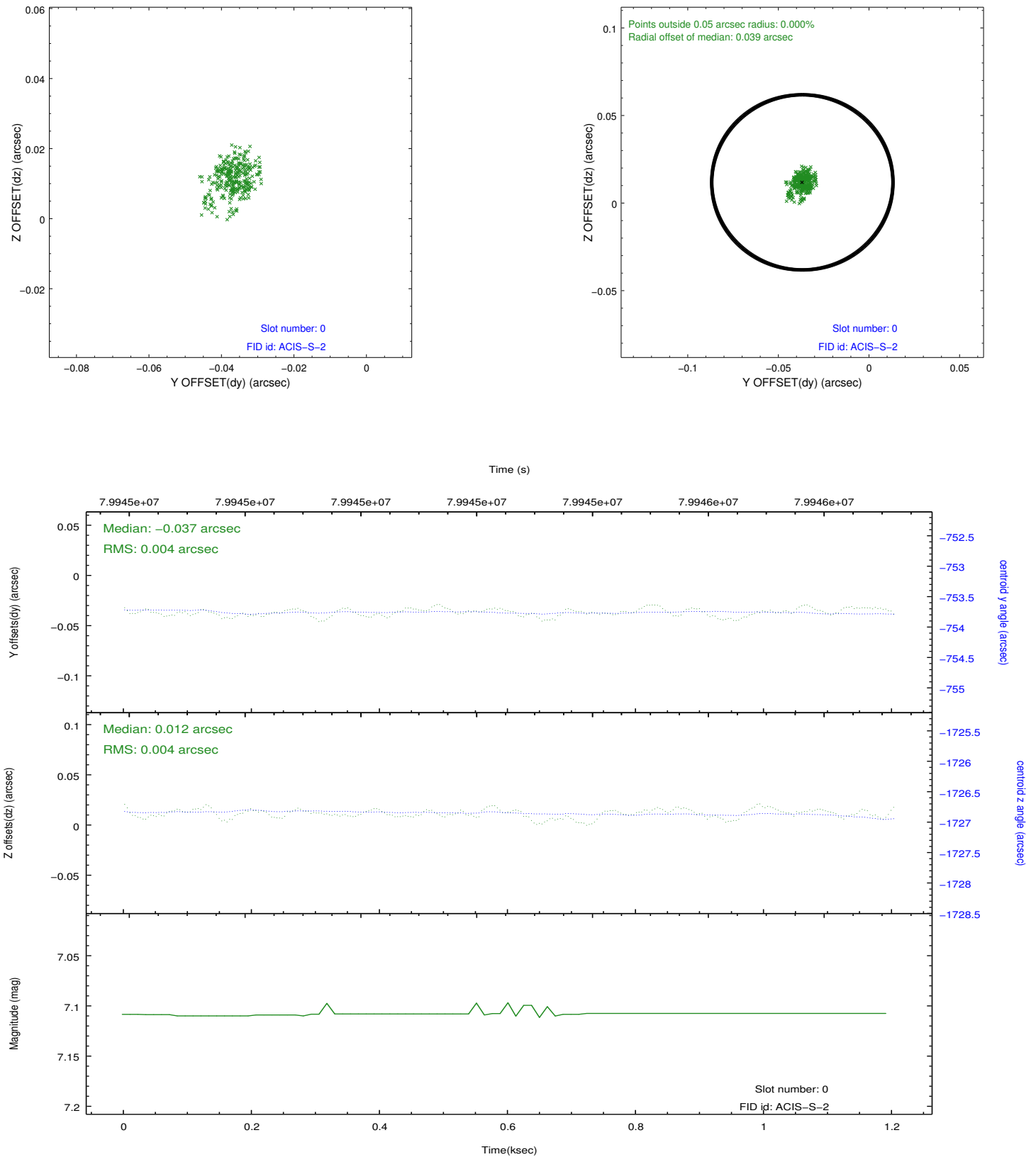


2.4.5 Slot 7

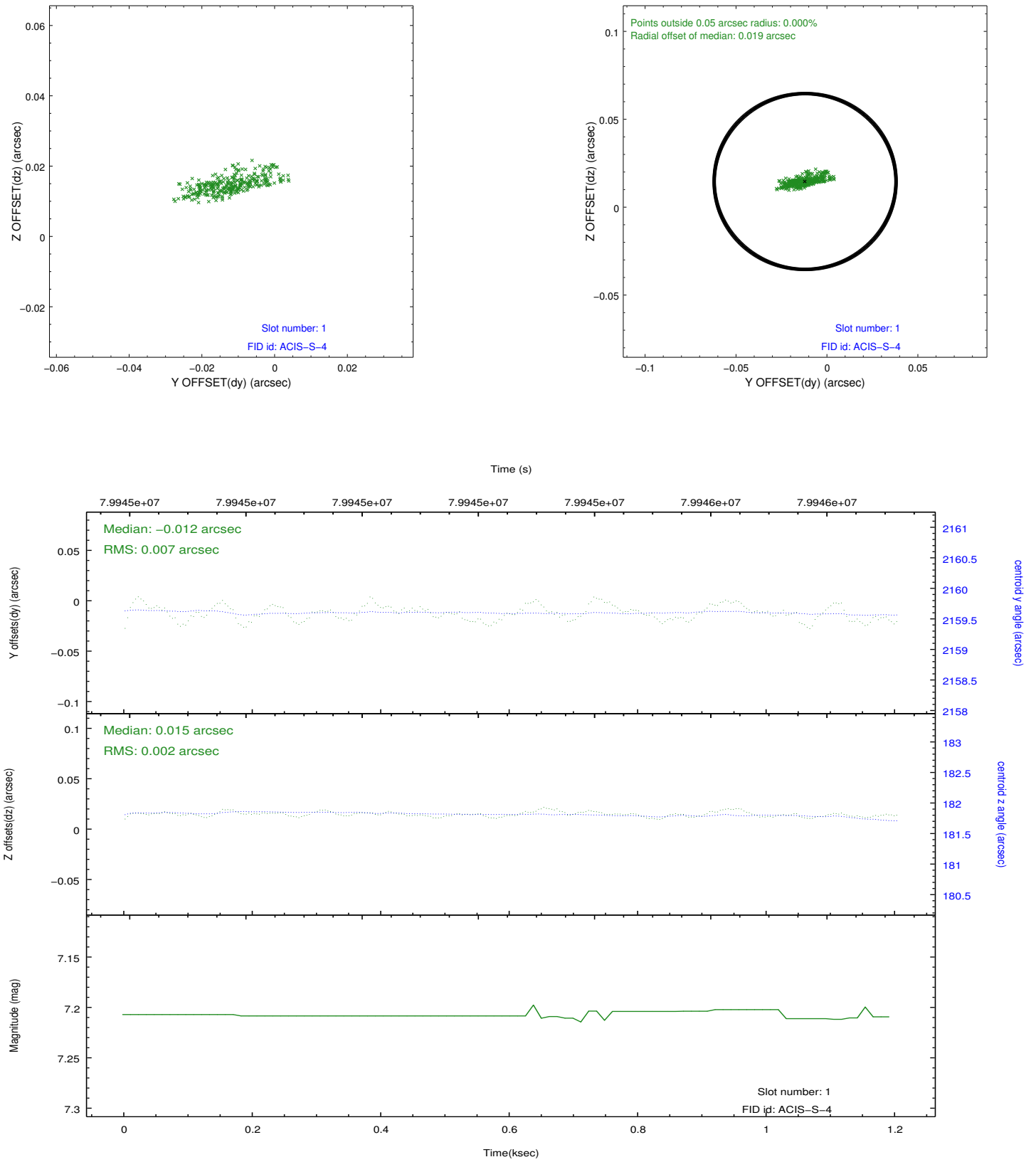


2.5 FID Slots

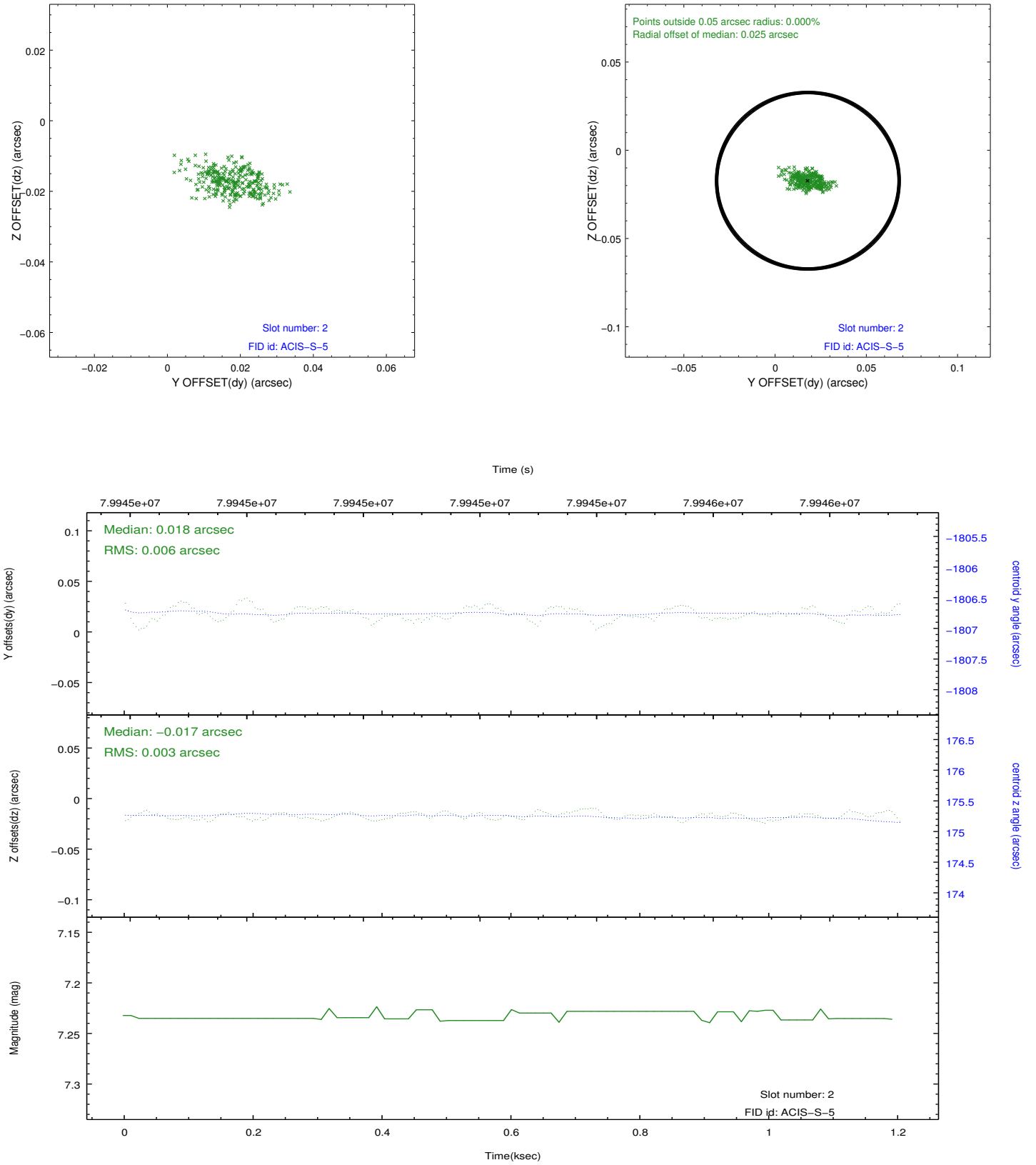
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.203

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the comet.