

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22094 - L2 Version 1
Chandra X-Ray Center

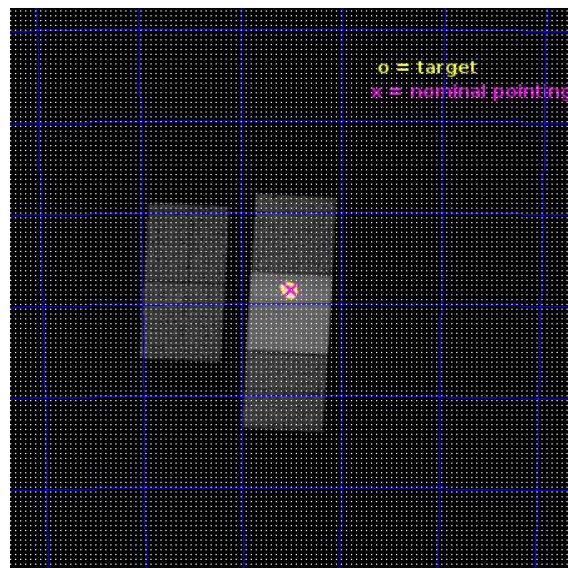
L2 Processing Date : Sep 10 2019

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1 Front

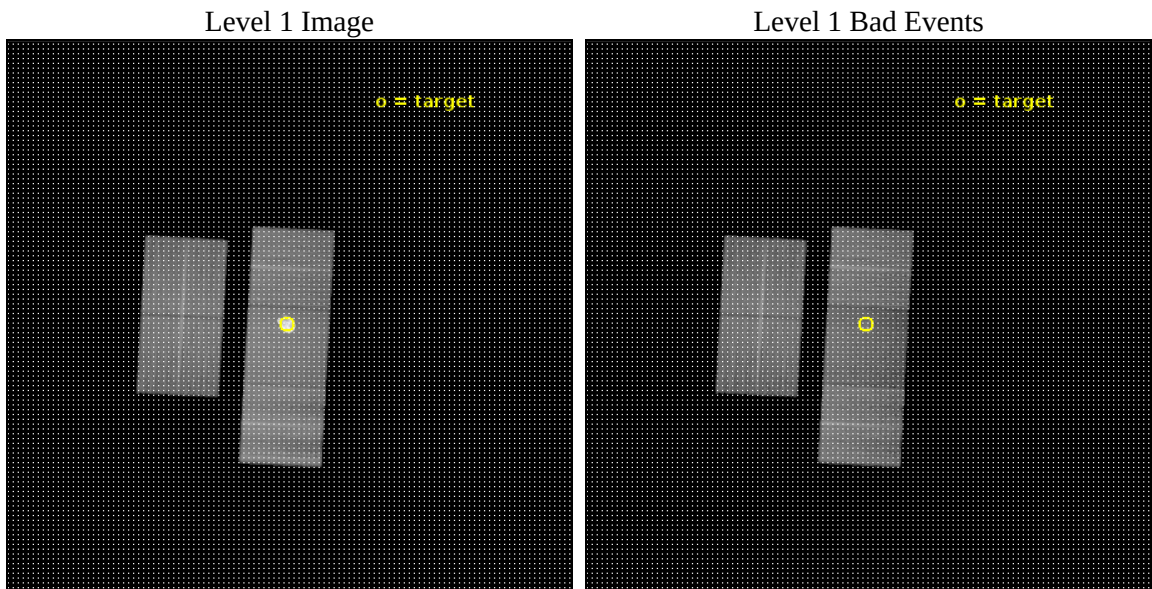
seq_num	503141	Sequence number
obs_id	22094	Observation id
title	GTO Portion of a Legacy Observation of N132D, the Most Luminous SNR in the Local Group	Proposal title
observer	Gordon Garmire	Principal investigator
object	N132D	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25875	Observer's specified target RA [deg]
dec_targ	-69.641667	Observer's specified target Dec [deg]
ra_nom	81.250001164763	Nominal RA [deg]
dec_nom	-69.641168338531	Nominal Dec [deg]
roll_nom	93.148435655724	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36656.533429265	Sum of GTIs [s]
livetime	36177.588833864	Livetime [s]
ontime2	36653.228279233	Sum of GTIs [s]
ontime3	36653.310379028	Sum of GTIs [s]
ontime6	36653.35138917	Sum of GTIs [s]
ontime7	36656.533429265	Sum of GTIs [s]
ontime8	36656.410309315	Sum of GTIs [s]
l2events	609467	Number of level 2 events



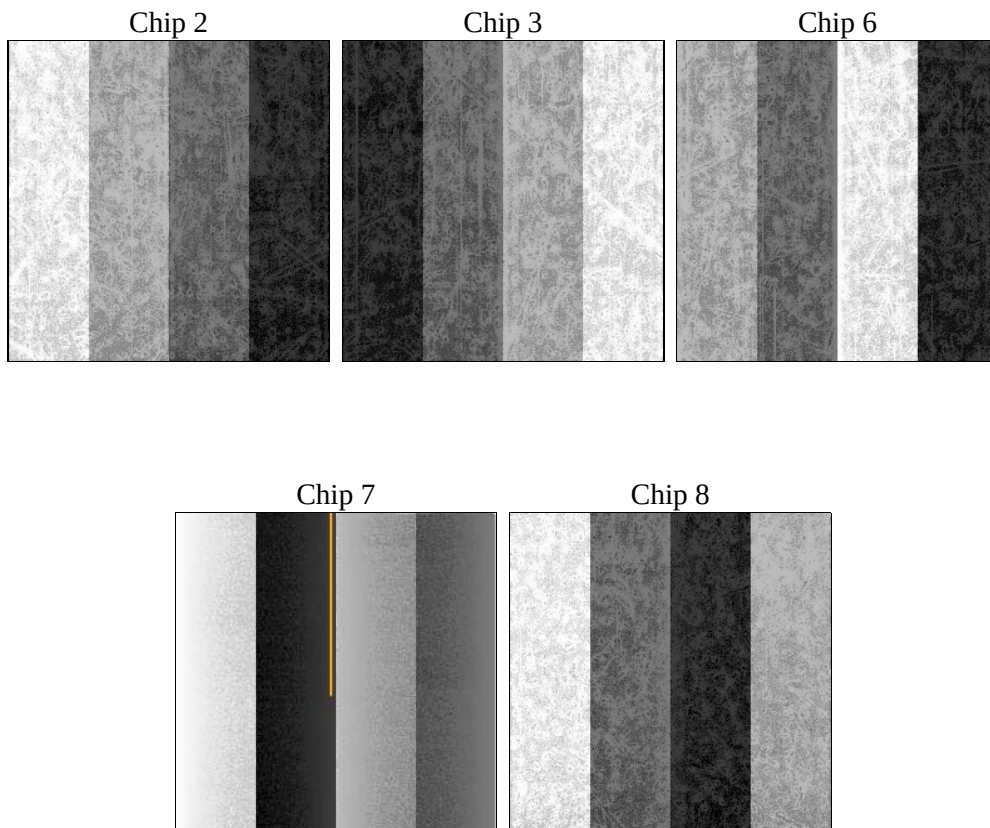
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36600.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	36656.533429265	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime2	36653.228279233	Sum of GTIs [s]
date	2019-09-10T20:27:40	Date and time of file creation	ontime3	36653.310379028	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	36653.35138917	Sum of GTIs [s]
			ontime7	36656.533429265	Sum of GTIs [s]
			ontime8	36656.410309315	Sum of GTIs [s]
			l1events	1814094	Number of level 1 events

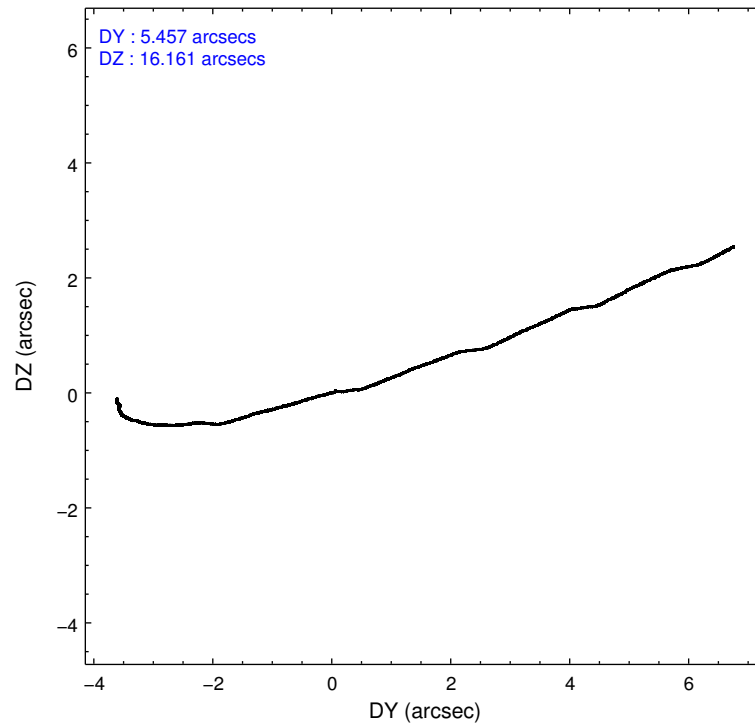
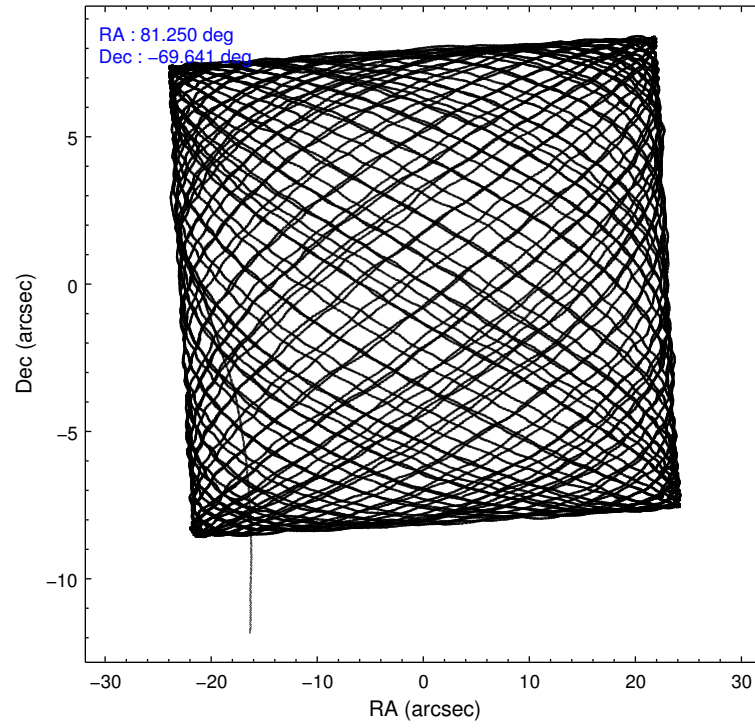
2.1.4 Events

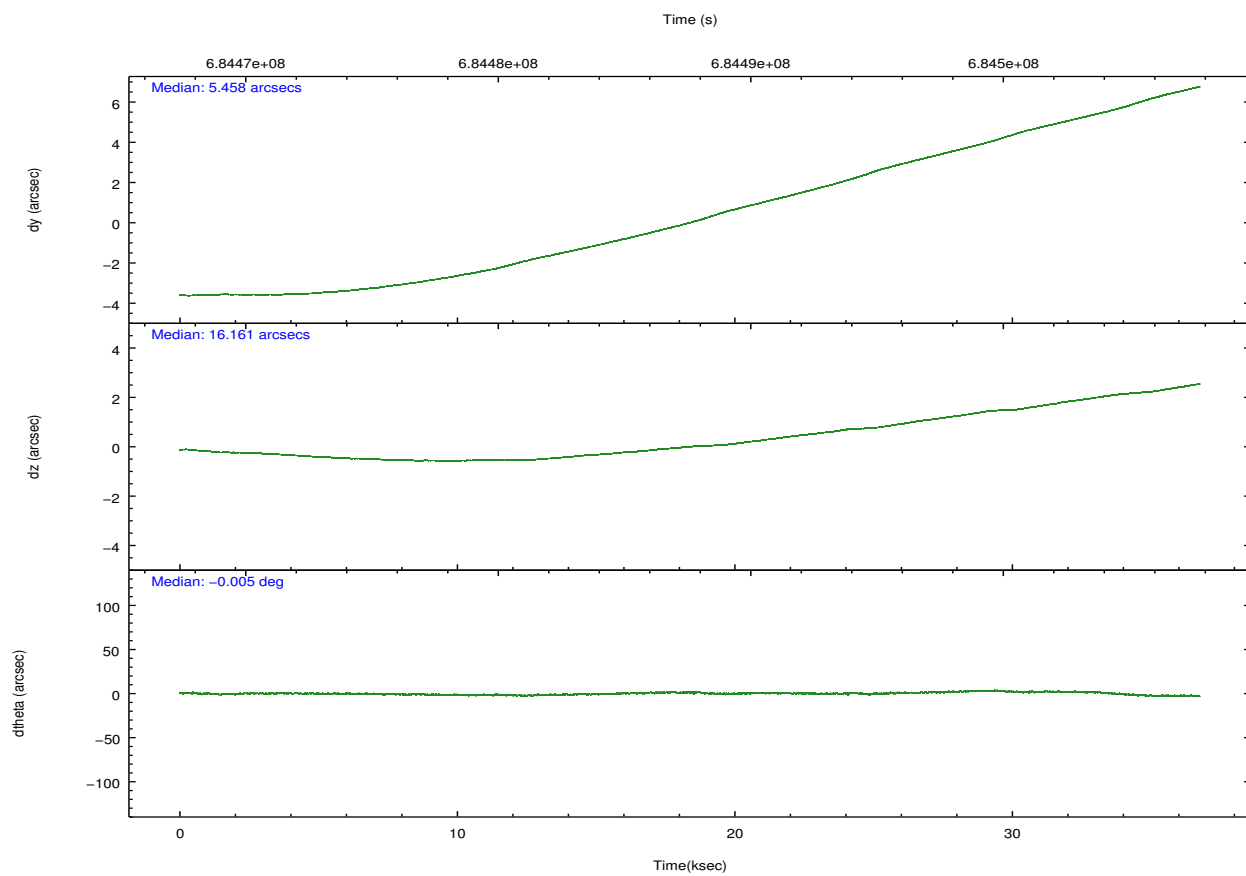
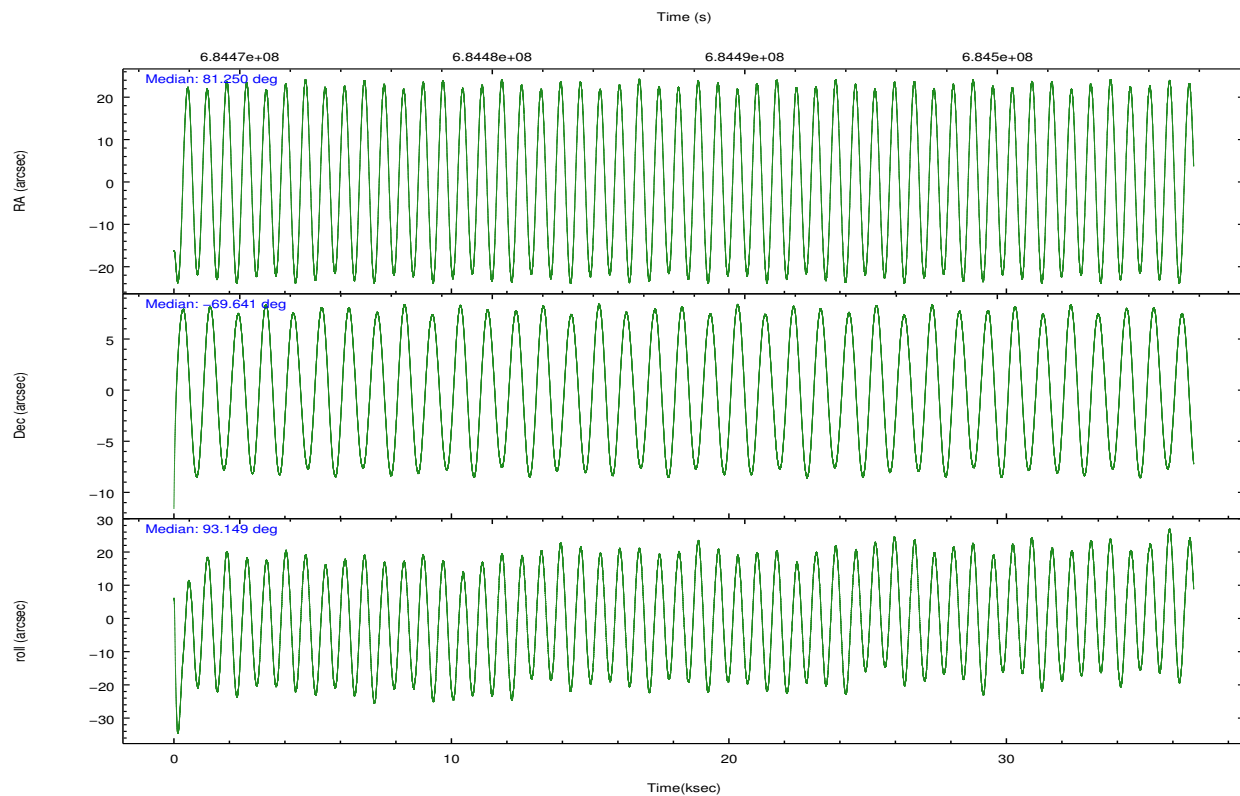
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	259905	251653	271147	675124	356265	grade 0 events	10875	10515	12003	126732	28928
rejected events	231171	223784	239023	161823	252264		4%	4%	4%	18%	8%
rejected %	88%	88%	88%	23%	70%	grade 1 events	163	155	146	1180	289
							0%	0%	0%	0%	0%
						grade 2 events	7316	6218	7545	134957	25423
							2%	2%	2%	19%	7%
						grade 3 events	2645	2857	2959	56457	10978
							1%	1%	1%	8%	3%
						grade 4 events	2823	2810	2918	55004	10495
							1%	1%	1%	8%	2%
						grade 5 events	8601	10500	11037	33692	17061
							3%	4%	4%	4%	4%
						grade 6 events	5079	5474	6707	140236	28188
							1%	2%	2%	20%	7%
						grade 7 events	222403	213124	227832	126866	234903
							85%	84%	84%	18%	65%

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	81.294049	81.25000116476316	CCD I2 on	O1	Y
[deg] Pointing Dec	-69.663941	-69.64116833853134	CCD I3 on	O2	Y
[deg] Pointing Roll	93.033103	93.14843565572373	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)	684469371.184000	684468376.94223	CCD S5 on	N	N
Observation start date	2019-09-10T02:21:42	2019-09-10T02:06:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	684505971.184000	684506736.54454	On-chip summing requested	N	N
Observation end date	2019-09-10T12:31:42	2019-09-10T12:45:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



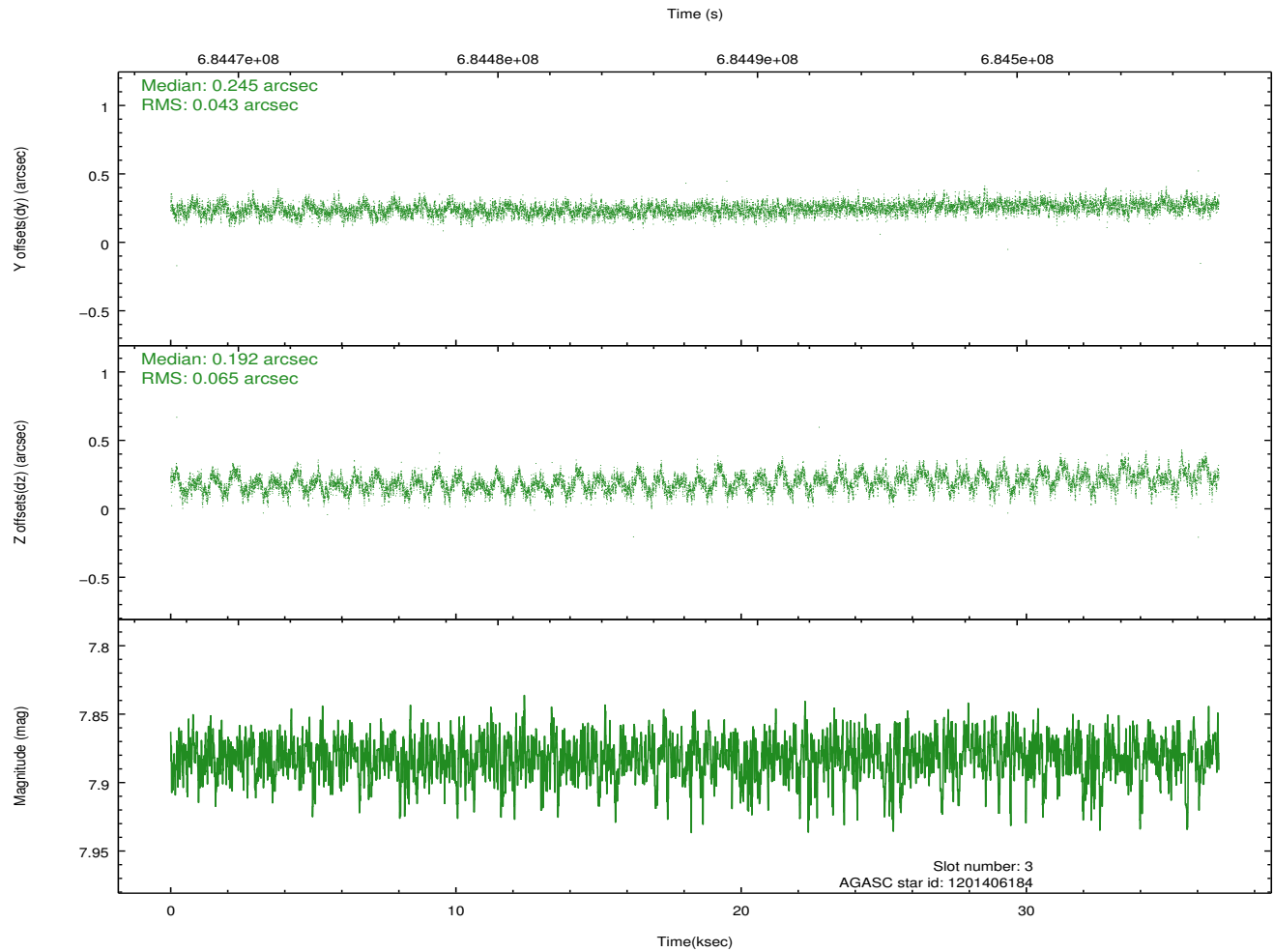
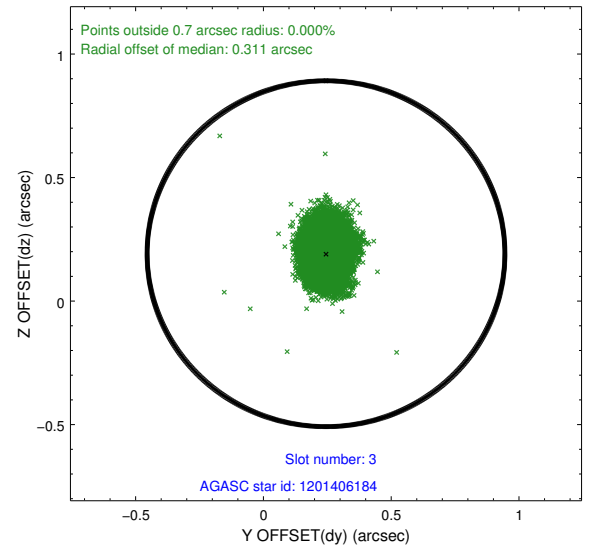
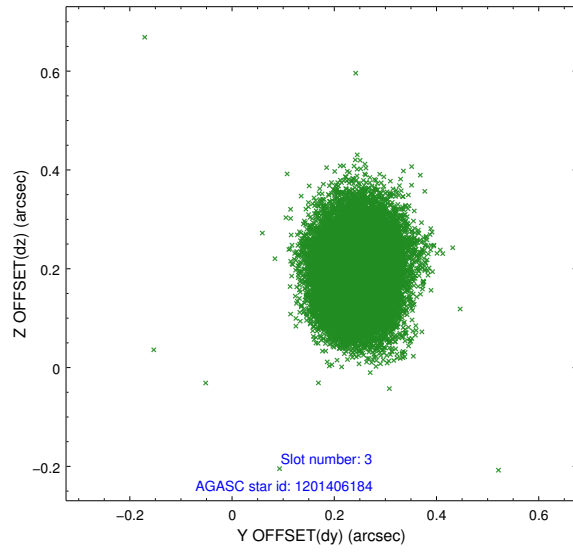


Slot Statistics

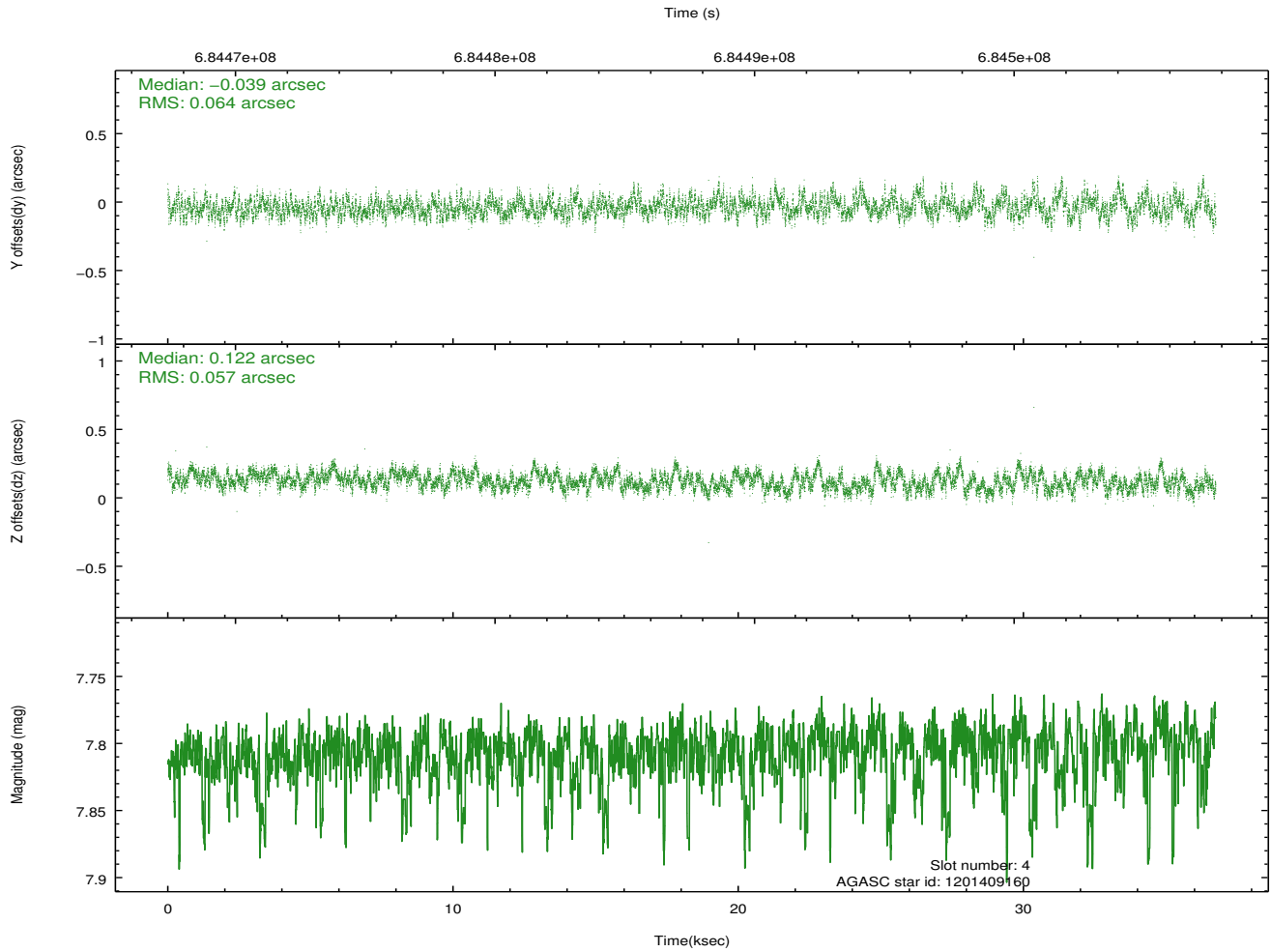
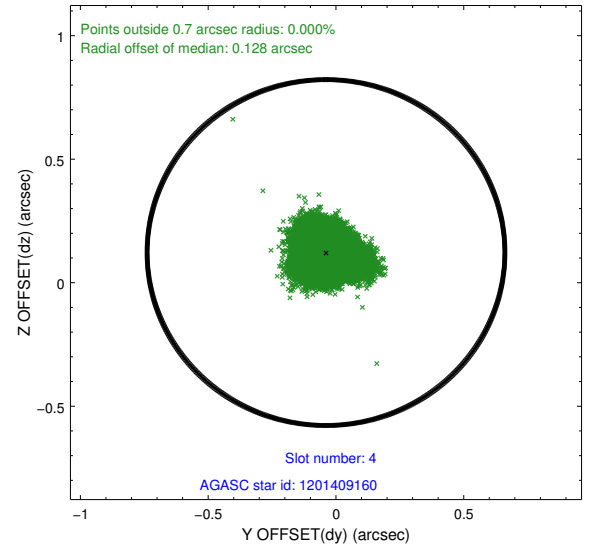
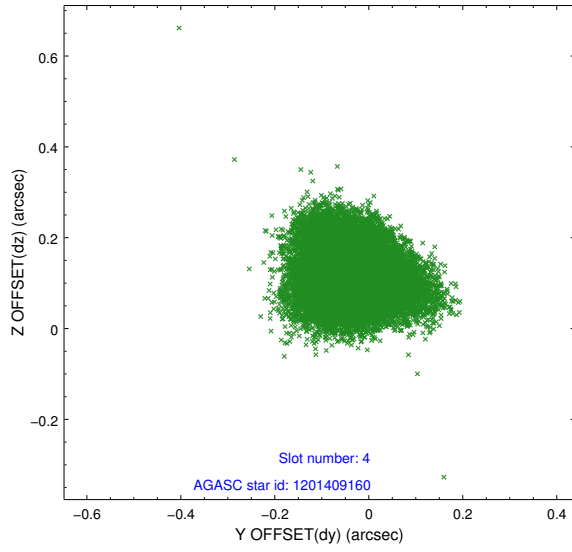
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	8964	1.000	-0.217	-0.065	0.048	0.104	0.000000	0.000000	-758.86	-1738
1	FID		ACIS-S-4	7.12	8964	1.000	0.496	0.128	0.049	0.131	0.000000	0.000000	2155.10	170
2	FID		ACIS-S-5	7.12	8963	1.000	-0.299	-0.056	0.065	0.153	0.000000	0.000000	-1811.80	164
3	GUIDE	used	1201406184	7.88	17918	1.000	0.245	0.192	0.083	0.135	82.503234	-69.975517	-1213.01	-1428
4	GUIDE	used	1201409160	7.81	17919	1.000	-0.039	0.122	0.091	0.145	81.660661	-70.063595	-1461.01	-372
5	GUIDE	used	1201409312	9.22	17910	1.000	-0.232	-0.311	0.151	0.239	80.915231	-69.503059	602.41	446
6	GUIDE	used	1201409792	8.79	17904	1.000	0.241	0.230	0.127	0.201	82.417975	-70.260186	-2227.56	-1250
7	GUIDE	used	1201410888	7.99	17917	1.000	-0.223	-0.228	0.087	0.138	81.046858	-70.018210	-1257.84	370

2.4 Star Slots

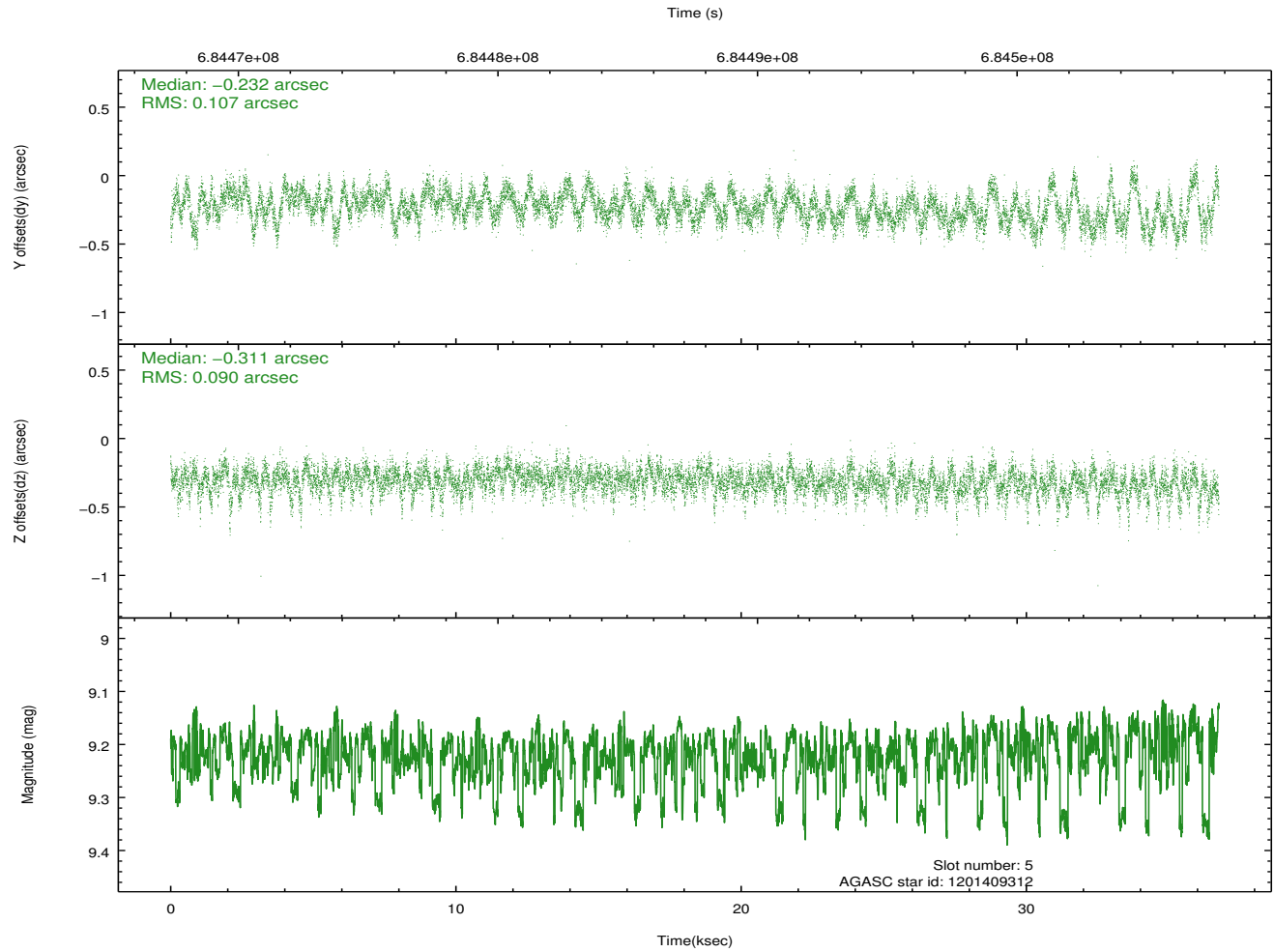
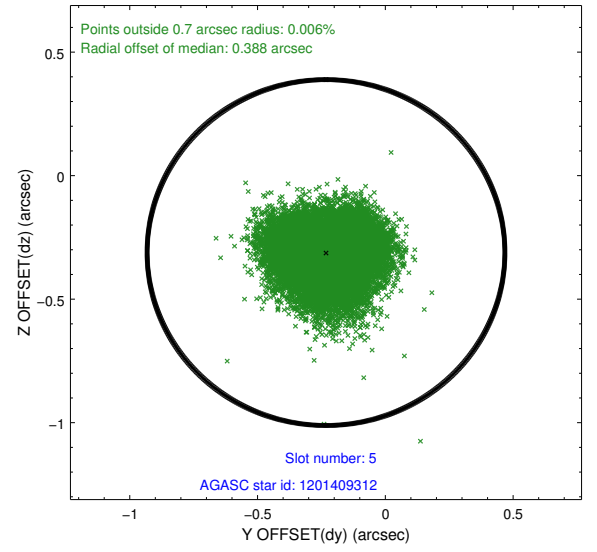
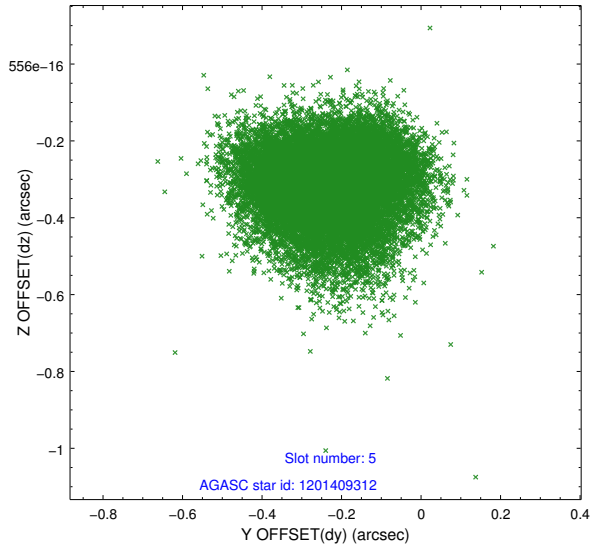
2.4.1 Slot 3



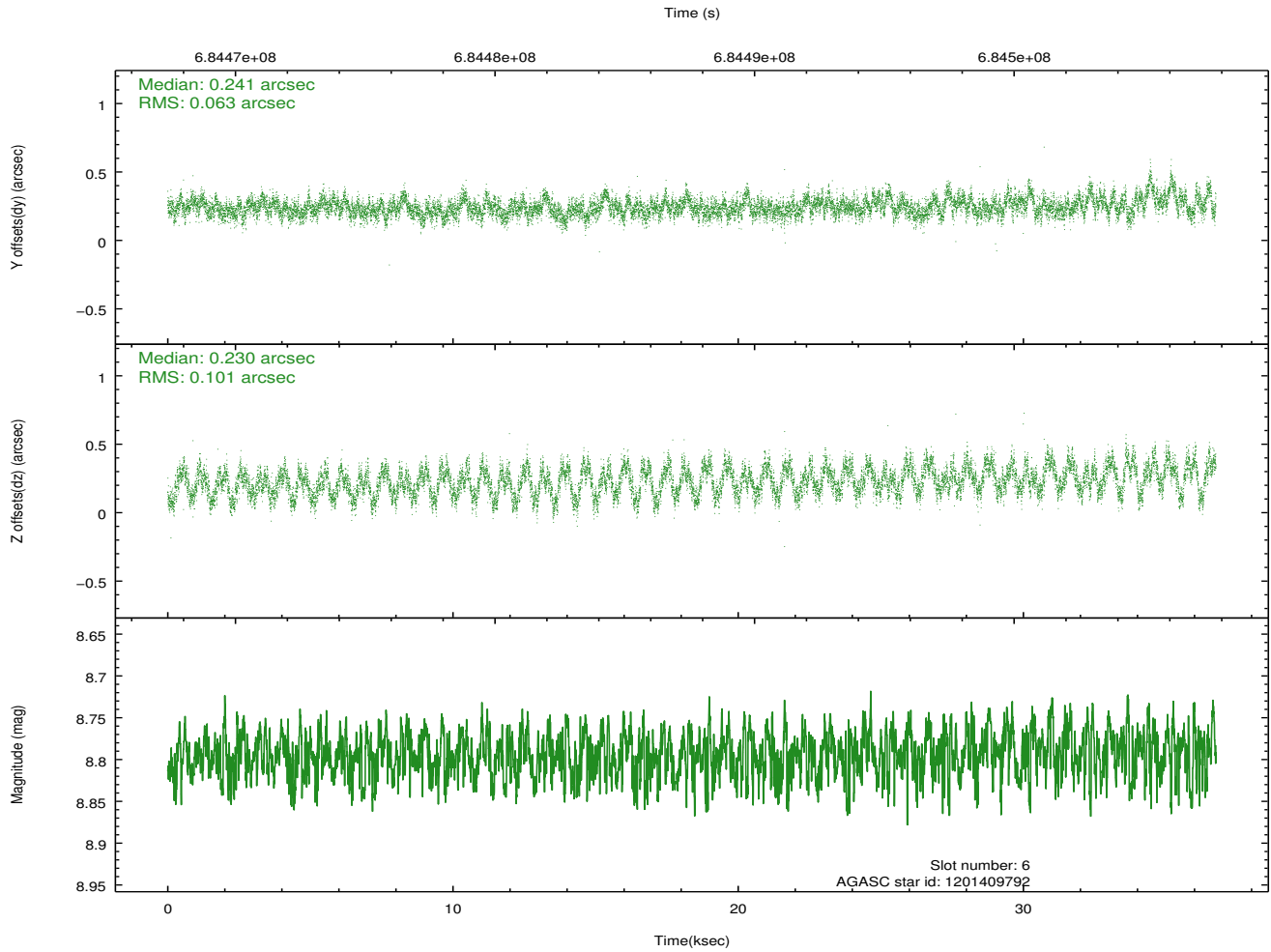
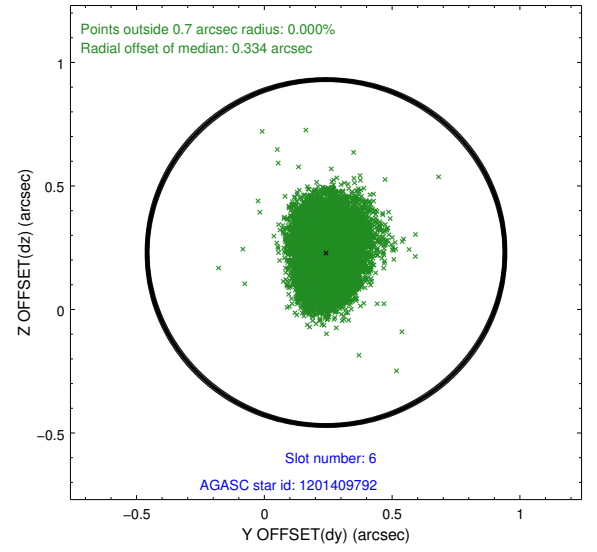
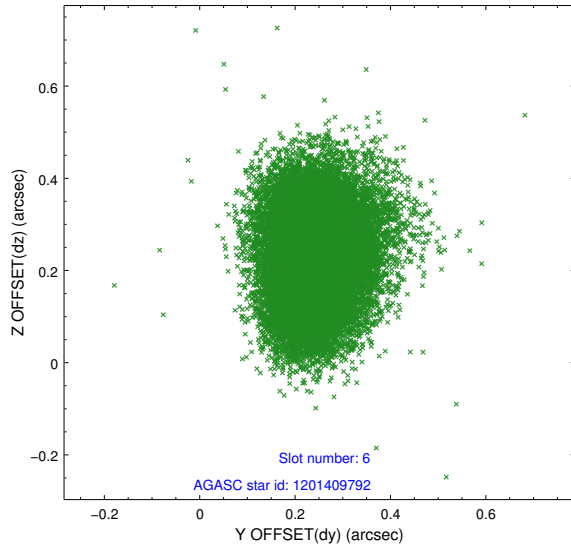
2.4.2 Slot 4



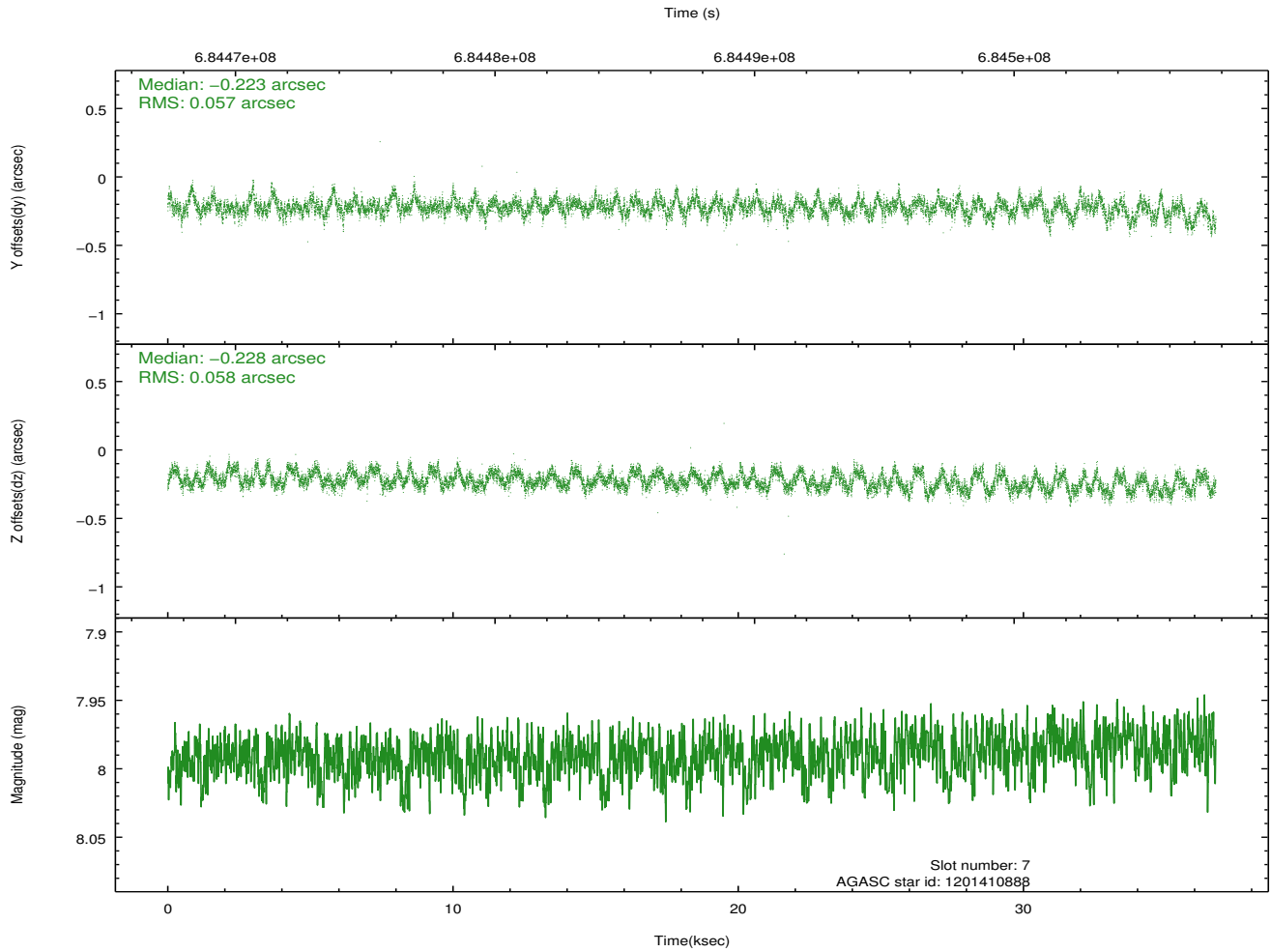
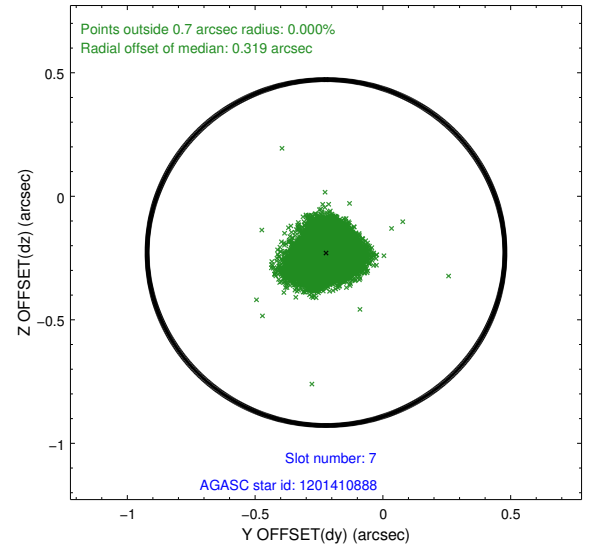
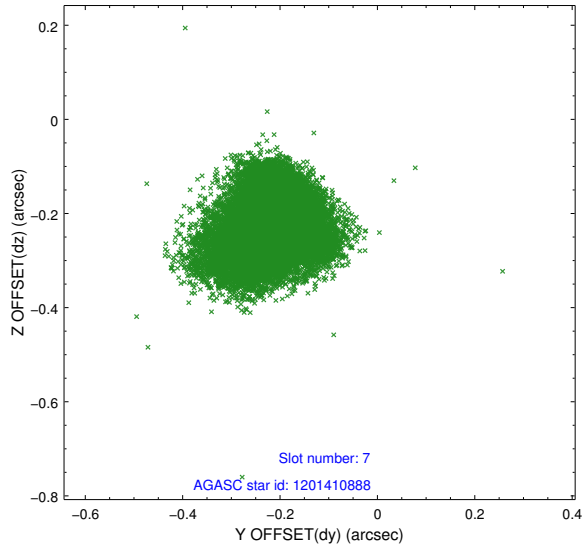
2.4.3 Slot 5



2.4.4 Slot 6

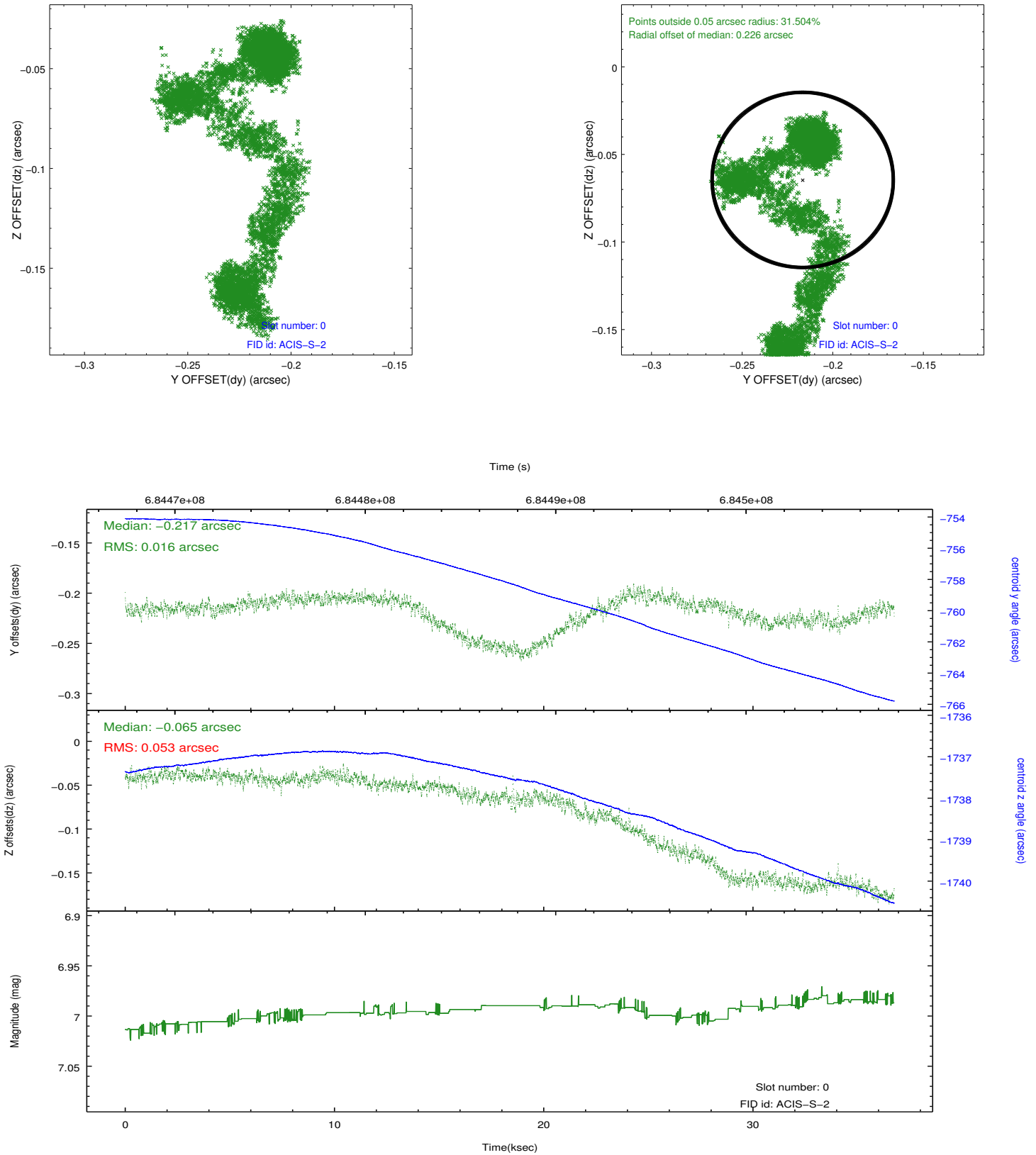


2.4.5 Slot 7

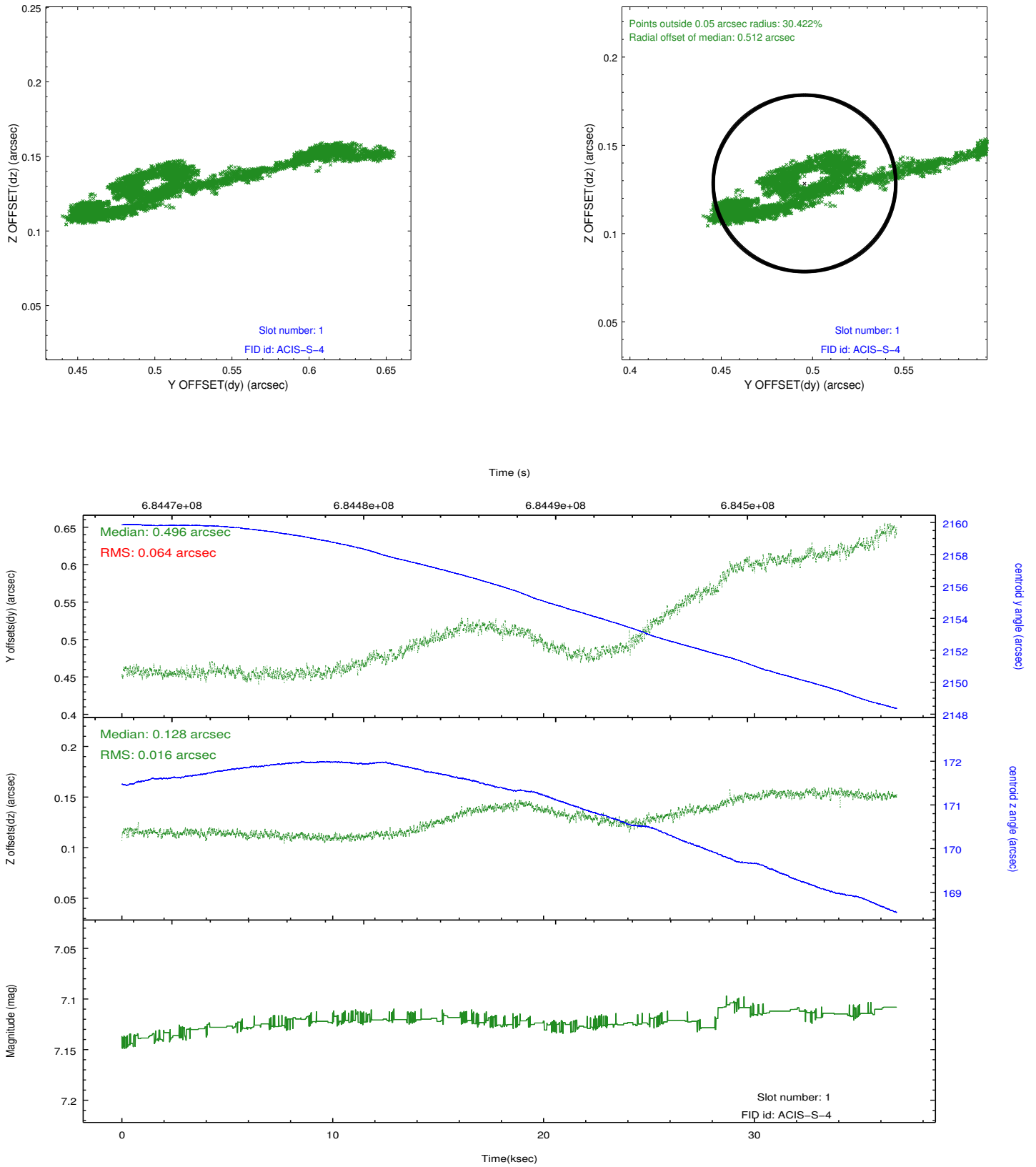


2.5 FID Slots

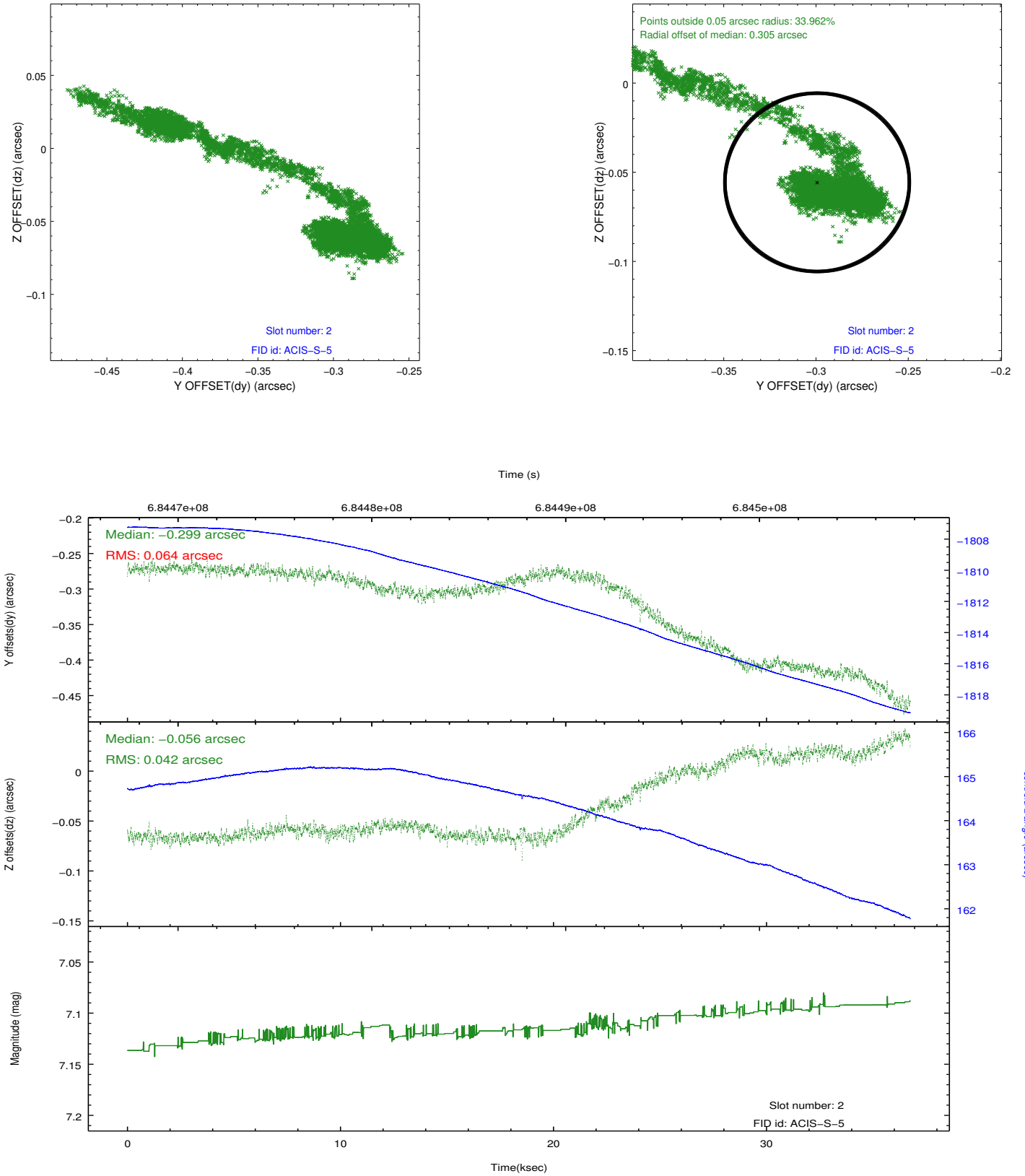
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.656533429265

A.2 Comments