

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18708 - L2 Version 2
Chandra X-Ray Center

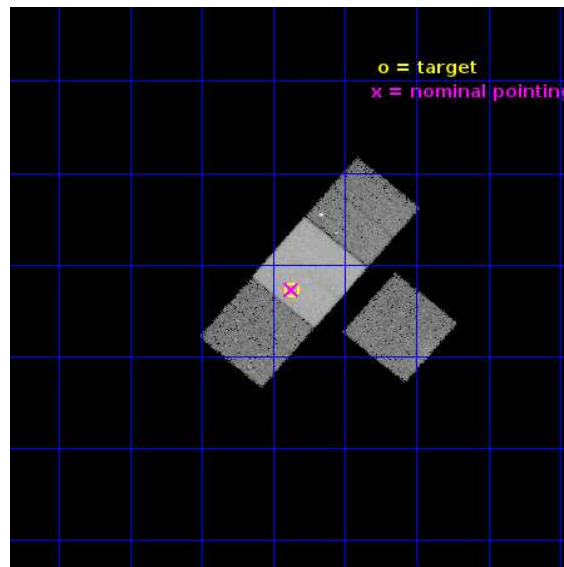
L2 Processing Date : Nov 28 2015

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1 Front

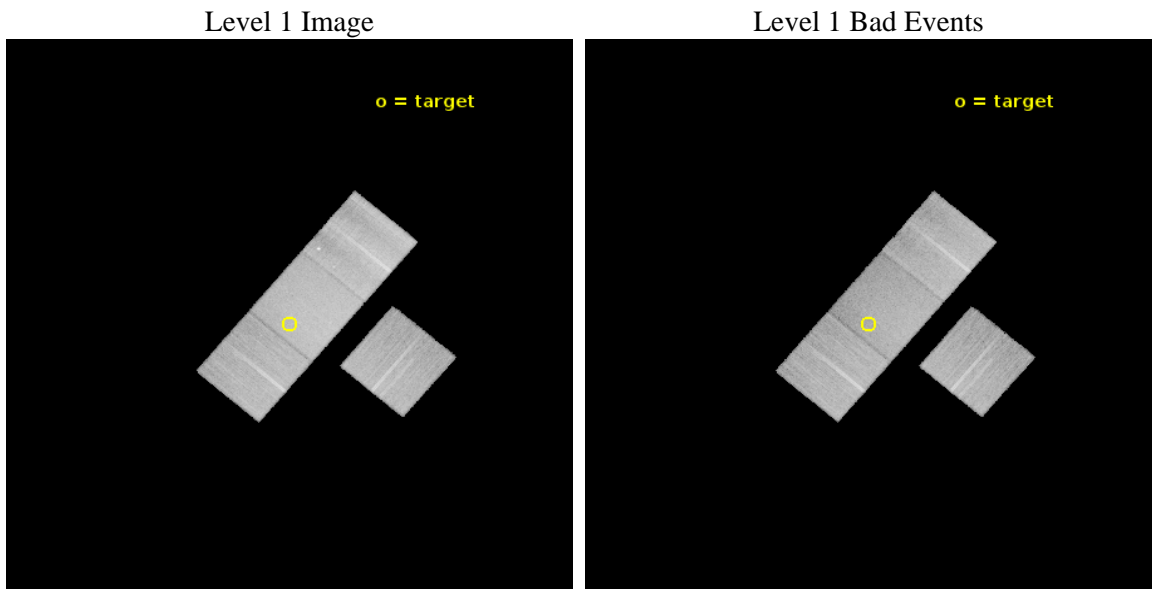
seq_num	703272	Sequence number
obs_id	18708	Observation id
title	Extremely Luminous Dusty Quasars with Unobscured UV Emission: Dual AGN or Extreme Single AGN Systems?	Proposal title
observer	Dr. Roberto Assef	Principal investigator
object	WISEA J022052.13+013711.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.217083	Observer's specified target RA [deg]
dec_targ	1.619889	Observer's specified target Dec [deg]
ra_nom	35.218699003867	Nominal RA [deg]
dec_nom	1.6213520008282	Nominal Dec [deg]
roll_nom	310.15657991139	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31734.700244188	Sum of GTIs [s]
livetime	31320.063022752	Livetime [s]
ontime3	31734.700244188	Sum of GTIs [s]
ontime6	31734.700244188	Sum of GTIs [s]
ontime7	31734.700244188	Sum of GTIs [s]
ontime8	31734.700244188	Sum of GTIs [s]
l2events	155338	Number of level 2 events



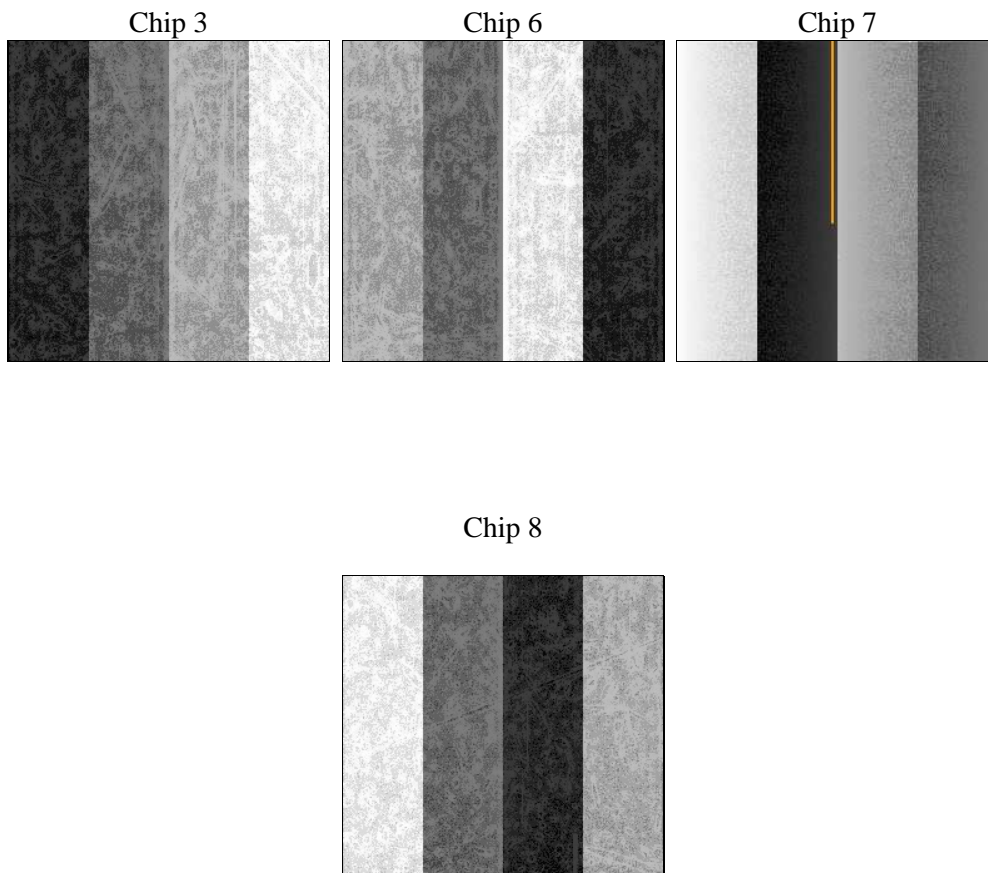
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31670.411000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	31734.700244188	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime3	31734.700244188	Sum of GTIs [s]
date	2015-11-28T18:28:32	Date and time of file creation	ontime6	31734.700244188	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	31734.700244188	Sum of GTIs [s]
			ontime8	31734.700244188	Sum of GTIs [s]
			l1events	811976	Number of level 1 events

2.1.4 Events

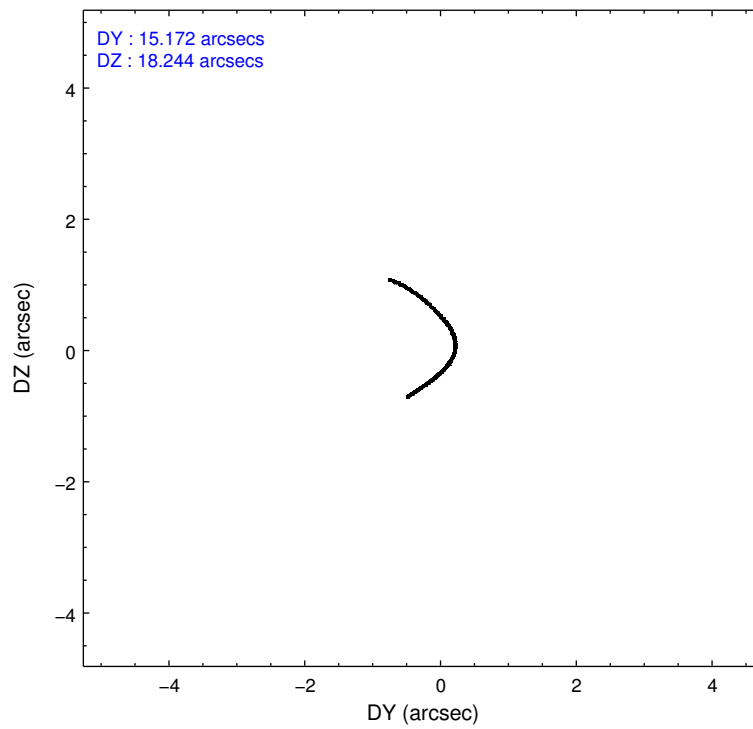
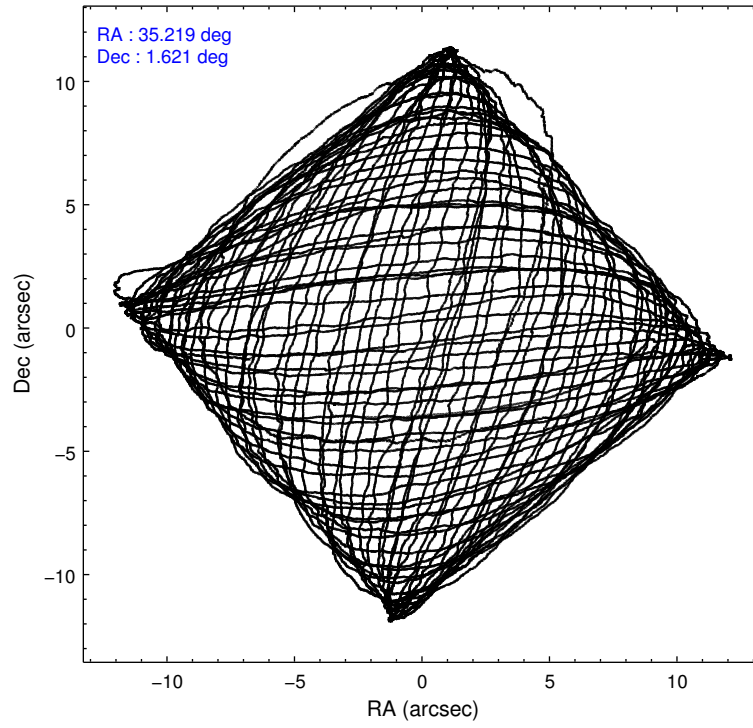
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	166453	181507	231625	232391
rejected events	146978	160738	132202	170709
rejected %	88%	88%	57%	73%

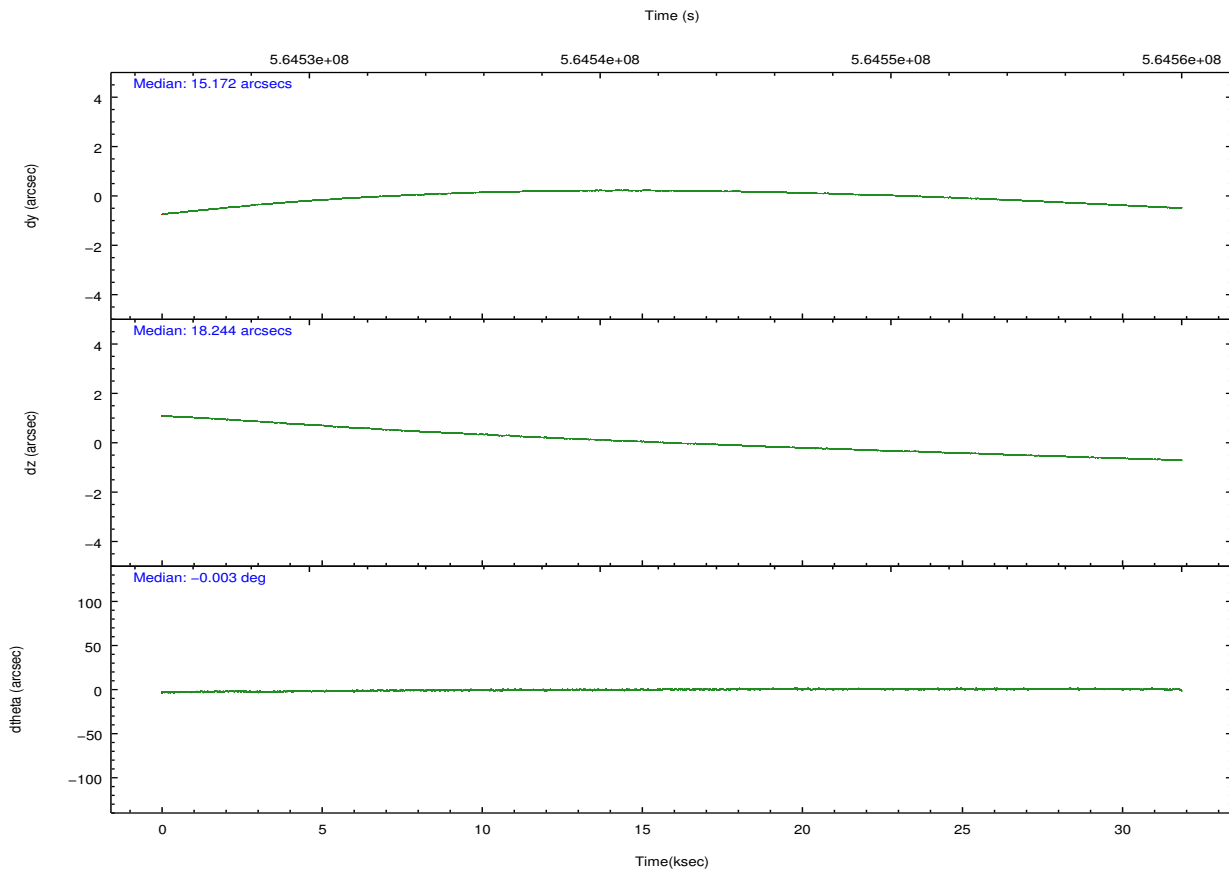
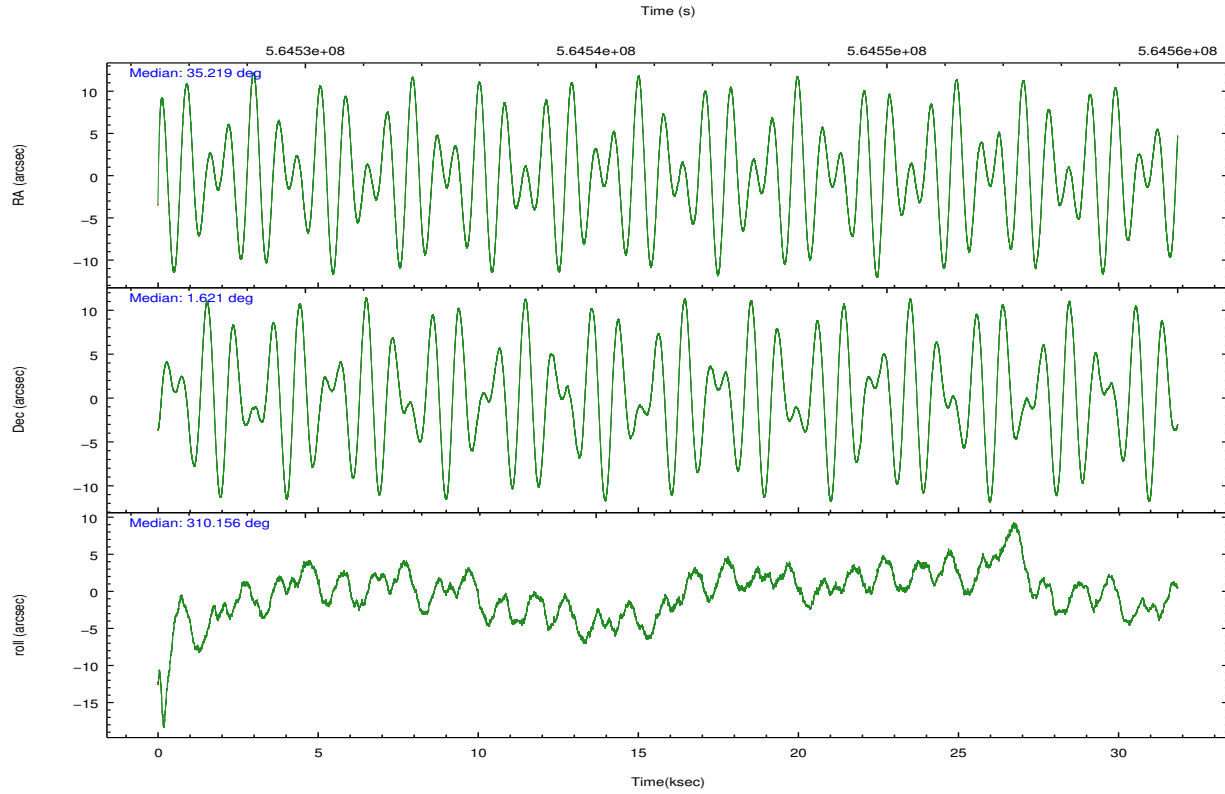
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7039	6980	8048	17887
	4%	3%	3%	7%
grade 1 events	112	91	281	186
	0%	0%	0%	0%
grade 2 events	4325	4775	20878	14829
	2%	2%	9%	6%
grade 3 events	2023	2063	7919	6316
	1%	1%	3%	2%
grade 4 events	2094	2103	7725	5990
	1%	1%	3%	2%
grade 5 events	8672	8846	22962	13012
	5%	4%	9%	5%
grade 6 events	3996	4855	54867	16671
	2%	2%	23%	7%
grade 7 events	138192	151794	108945	157500
	83%	83%	47%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	35.192762	35.21869900386685	CCD I2 on	O1	N
[deg] Pointing Dec	1.630311	1.621352000828197	CCD I3 on	Y	Y
[deg] Pointing Roll	310.000685	310.1565799113891	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	Y	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	Y	Y
[s] Observation start time (MET)	564526704.184000	564525360.14324	CCD S5 on	N	N
Observation start date	2015-11-21T20:57:16	2015-11-21T20:36:00	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	564558375.184000	564558599.8701299	On-chip summing requested	N	N
Observation end date	2015-11-22T05:45:07	2015-11-22T05:49:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



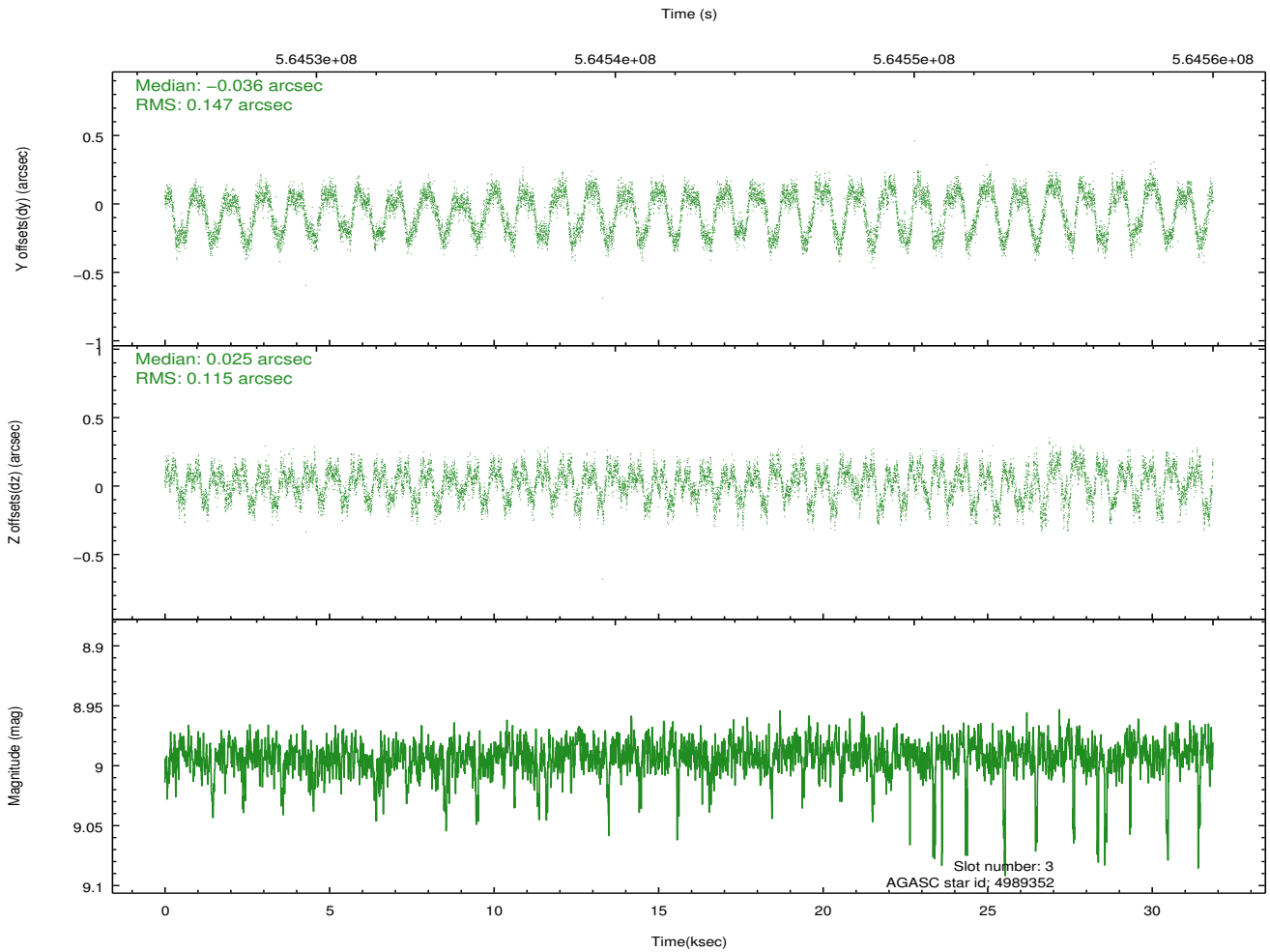
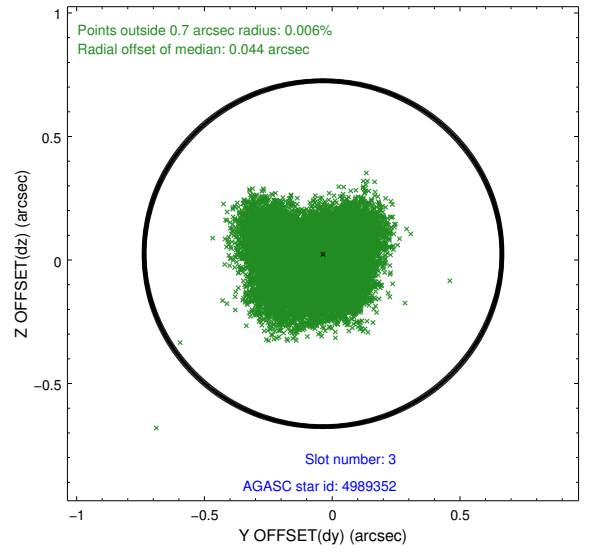
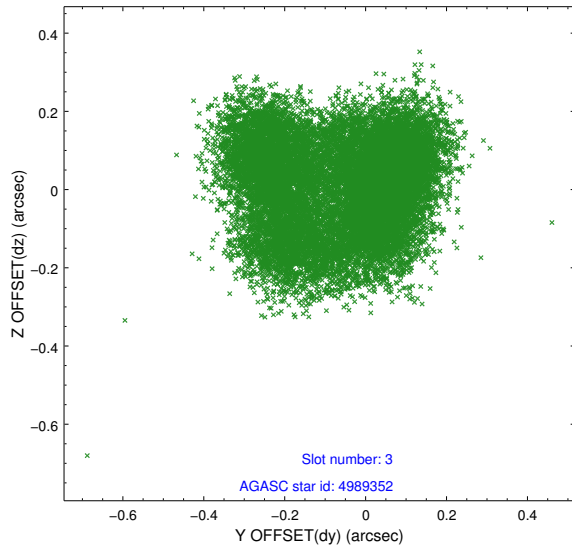


Slot Statistics

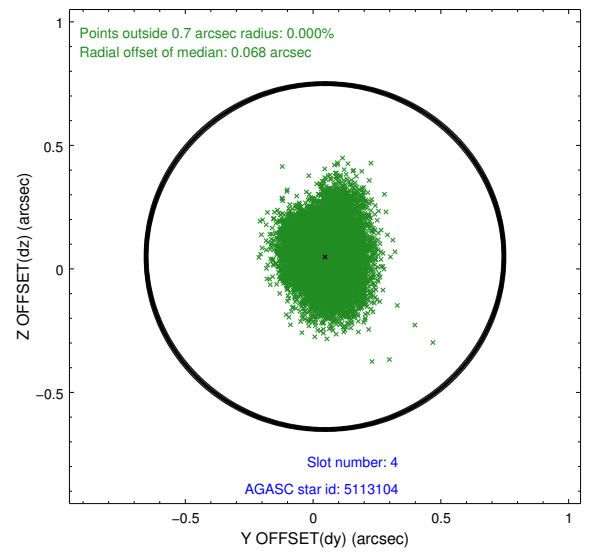
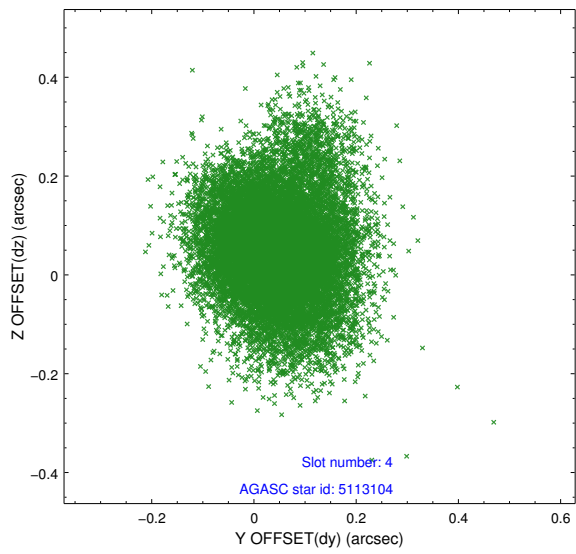
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	7769	-0.163	-0.134	0.012	0.028	0.000000	0.000000	-768.26	-1739.85
1	FID		ACIS-S-4	7.22	7769	0.418	0.114	0.008	0.014	0.000000	0.000000	2145.59	168.79
2	FID		ACIS-S-5	7.23	7767	-0.286	0.028	0.012	0.022	0.000000	0.000000	-1821.13	162.48
3	GUIDE	used	4989352	8.99	15531	-0.036	0.025	0.205	0.300	34.701469	1.967173	-2064.77	-574.25
4	GUIDE	used	5113104	8.93	15530	0.047	0.050	0.123	0.218	35.108626	1.589275	-79.05	-325.14
5	GUIDE	used	5113992	8.92	15523	-0.076	0.226	0.098	0.162	35.266692	1.031435	1823.21	-1181.64
6	GUIDE	used	5114296	9.65	15512	0.087	-0.292	0.227	0.337	35.167650	1.120375	1349.07	-1249.48
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

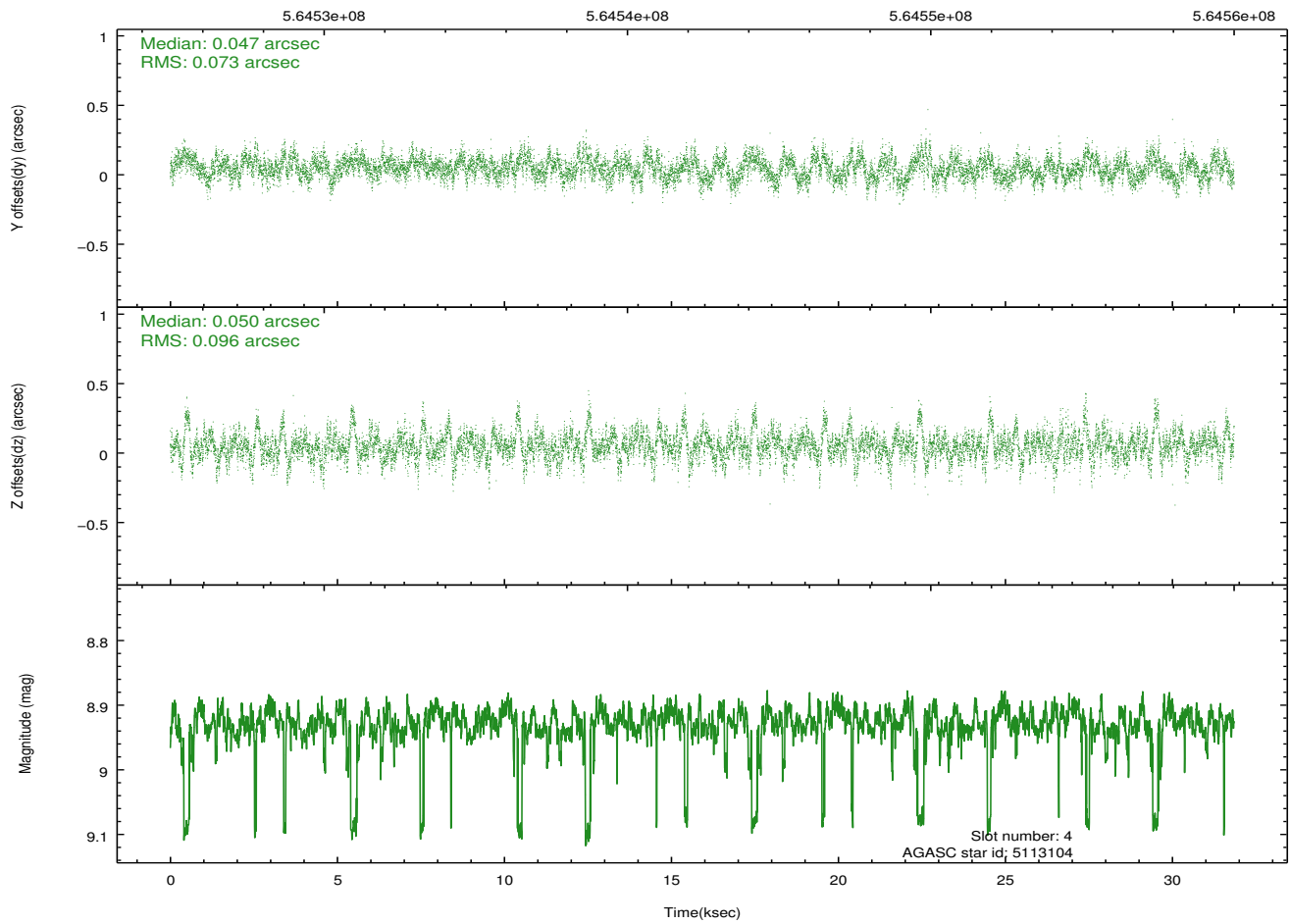
2.4.1 Slot 3



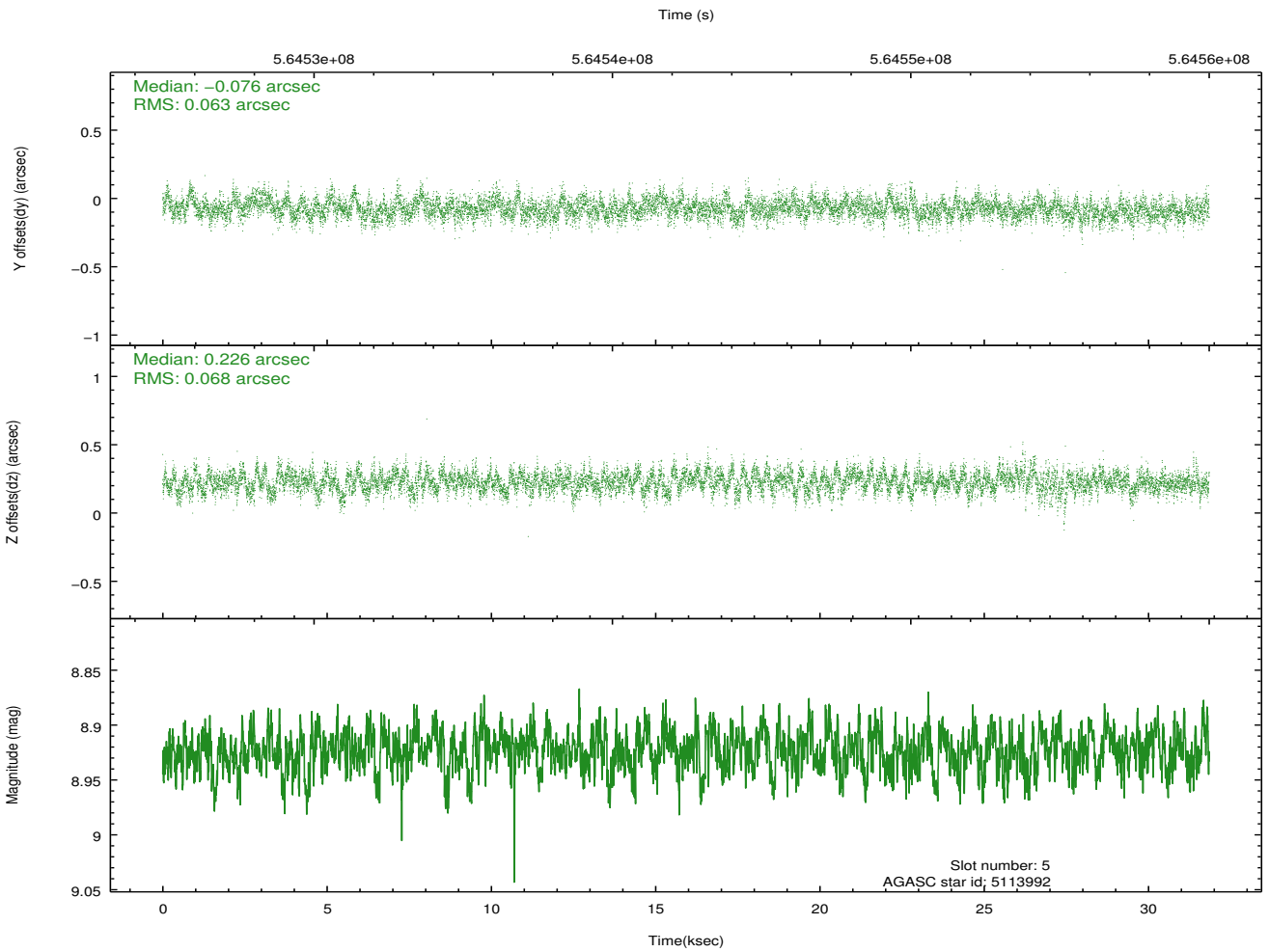
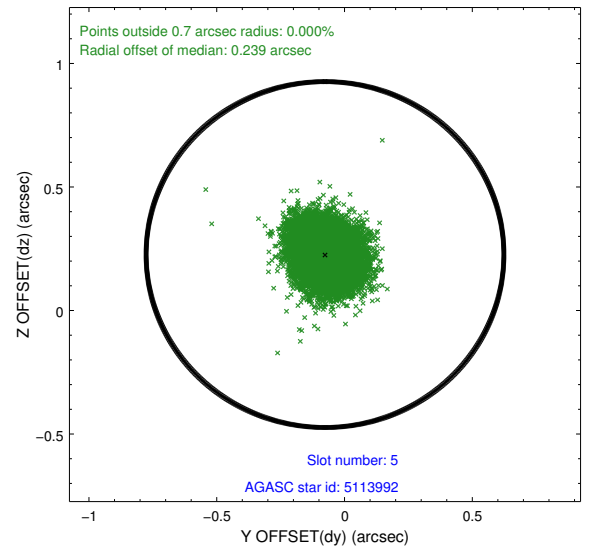
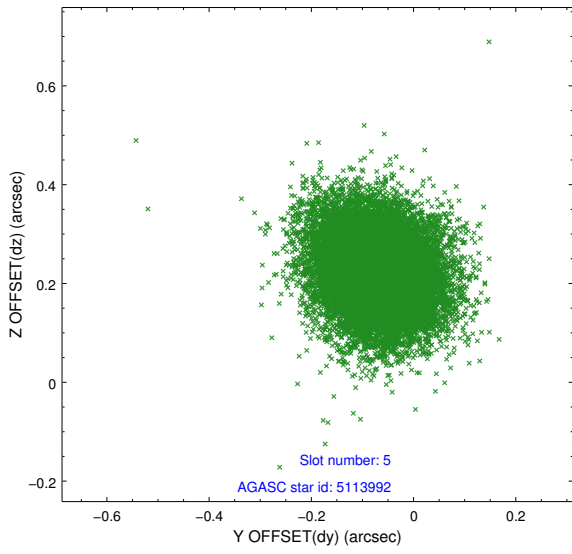
2.4.2 Slot 4



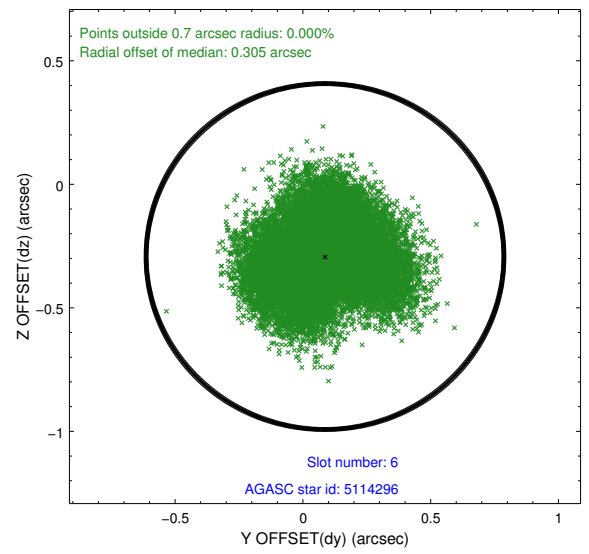
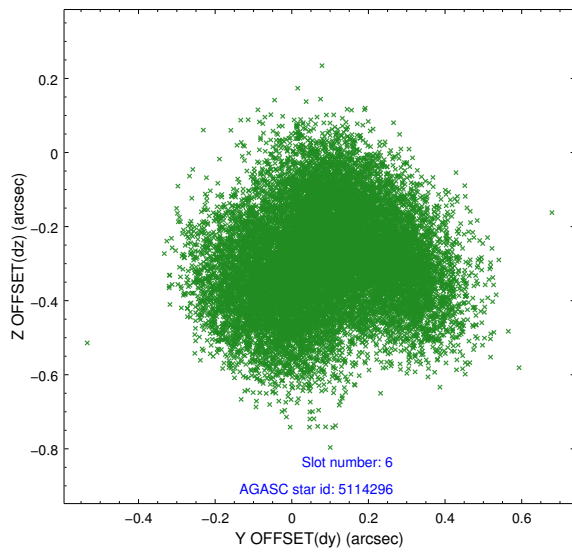
Time (s)



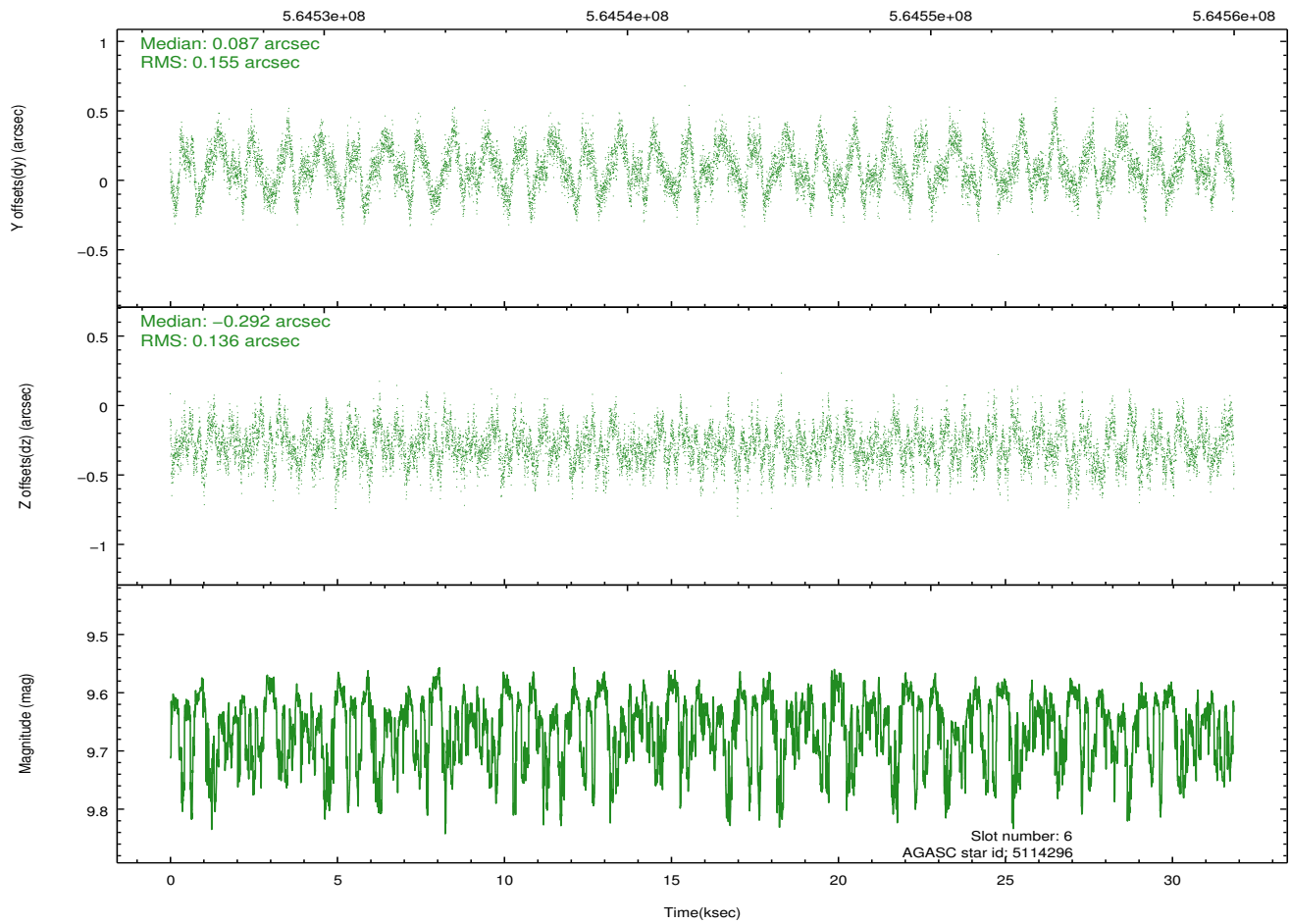
2.4.3 Slot 5



2.4.4 Slot 6

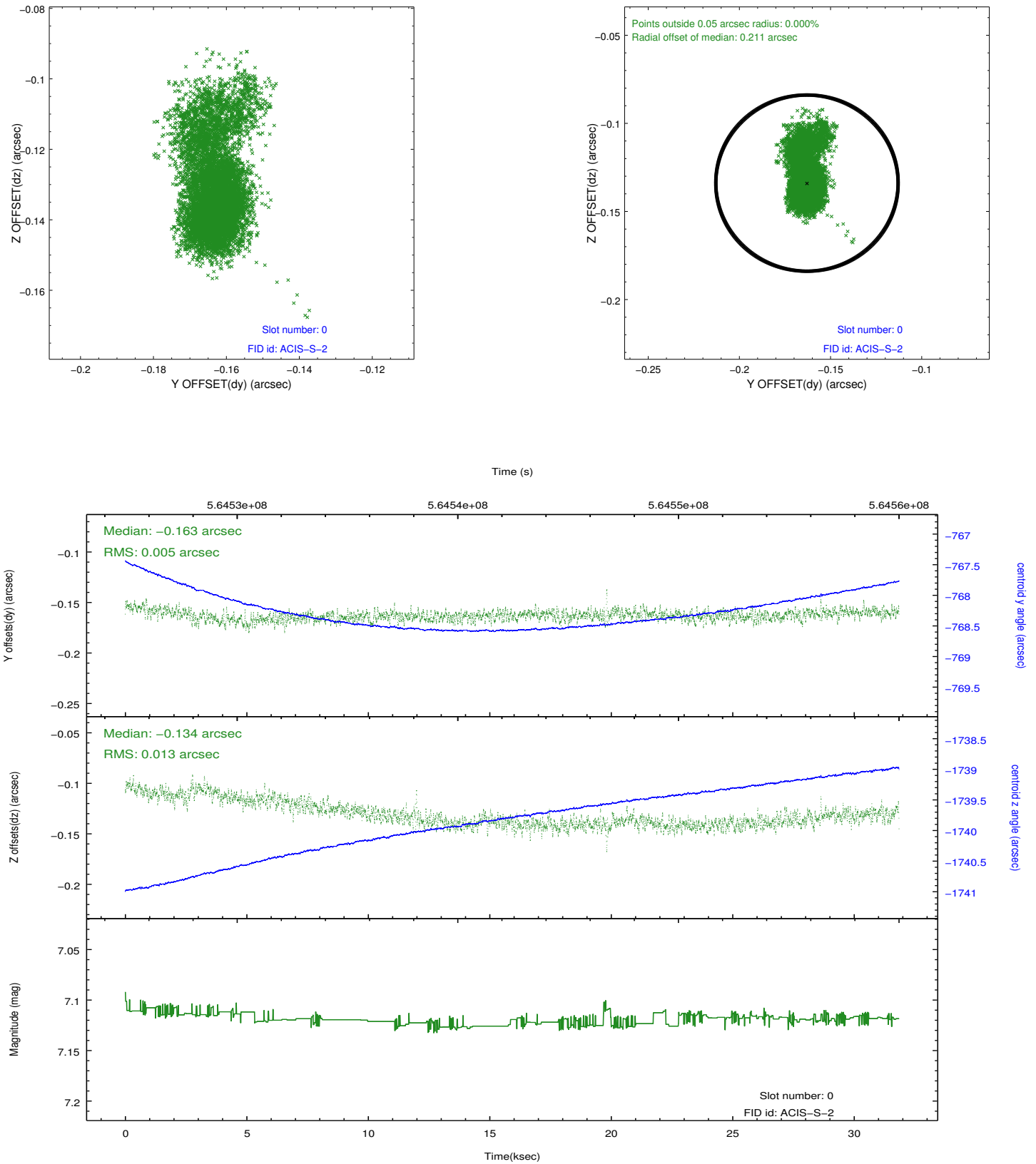


Time (s)

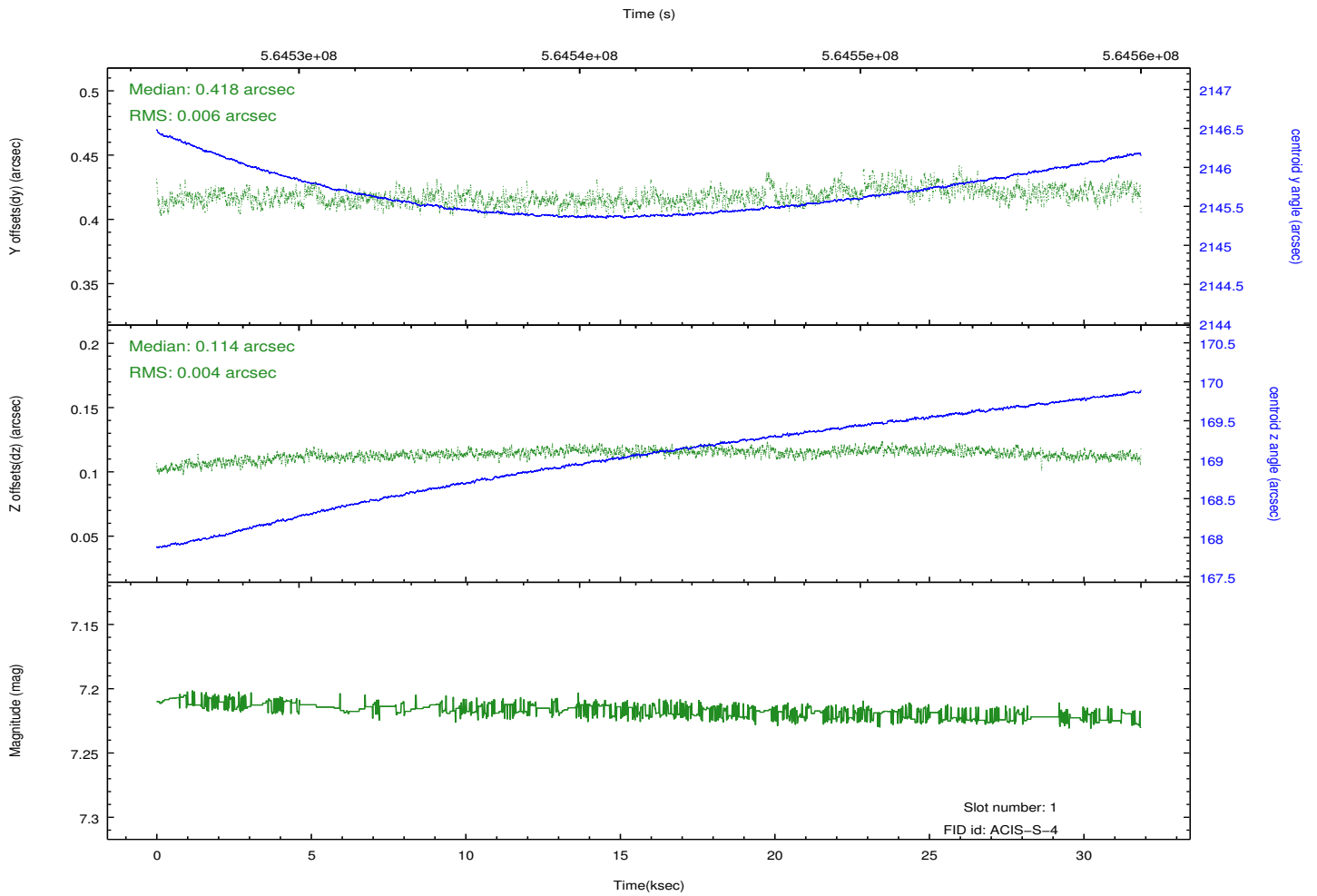
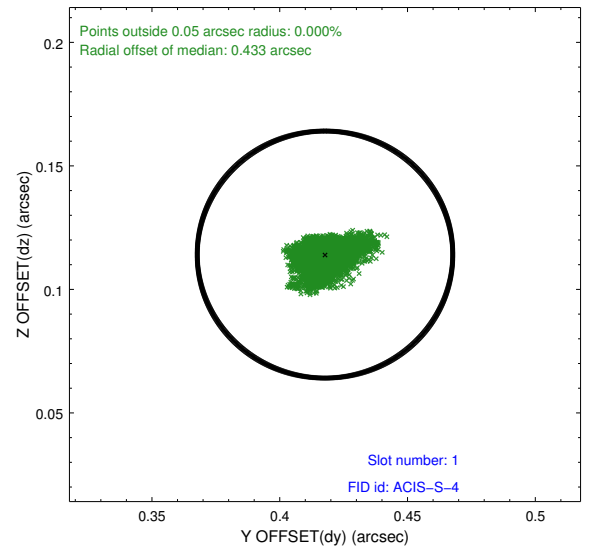
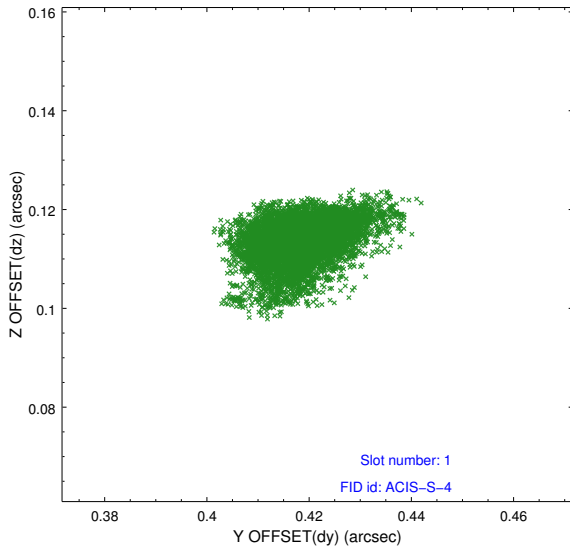


2.5 FID Slots

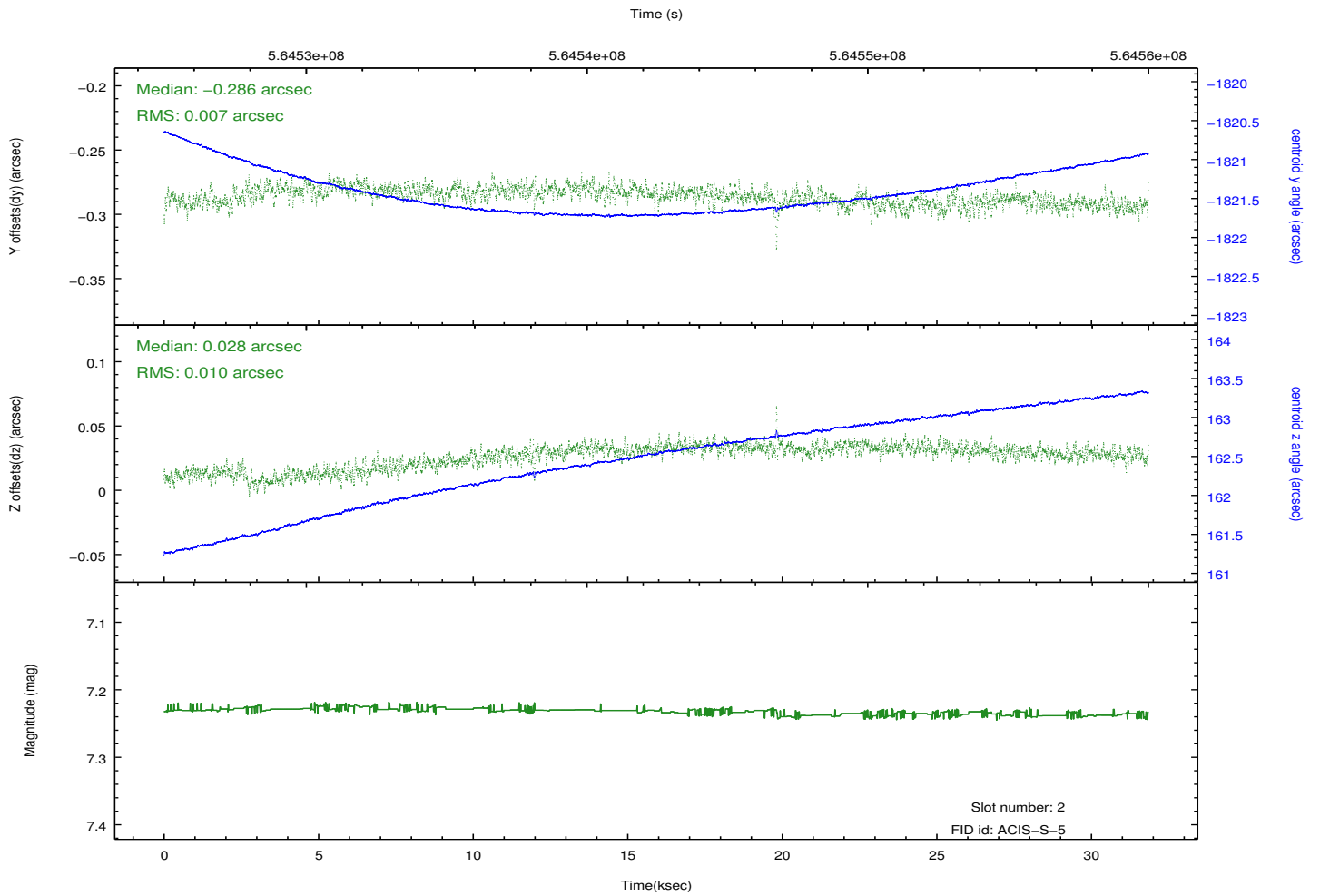
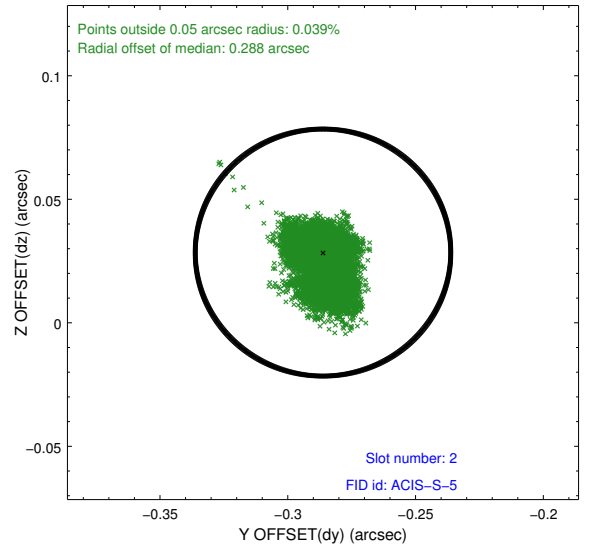
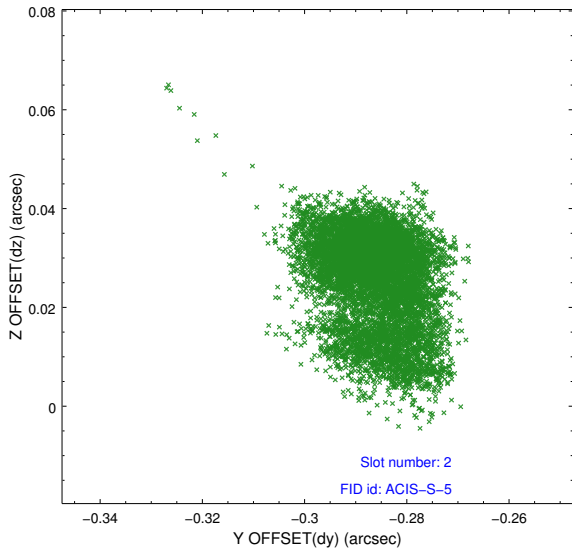
2.5.1 Slot 0



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)	2015.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.734700244188

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.