

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8446 - L2 Version 2
Chandra X-Ray Center

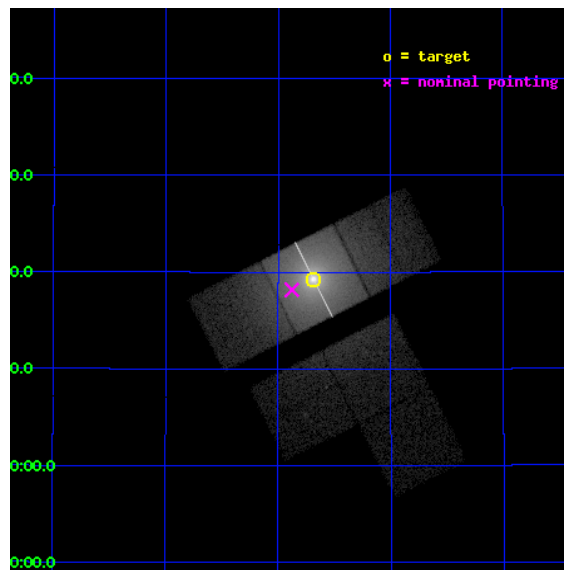
L2 Processing Date : May 8 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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	900735	Sequence number
obs_id	8446	Observation id
title	Accurate Determination of the Dust-Scattering Halo Around Cyg X-2	
observer	Frederick Seward	Principal investigator
object	Cyg X-2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	326.171667	Observer's specified target RA [deg]
dec_targ	38.321667	Observer's specified target Dec [deg]
ra_nom	326.21944086123	Nominal RA [deg]
dec_nom	38.302999018054	Nominal Dec [deg]
roll_nom	333.12704372773	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6143.9999771714	Sum of GTIs [s]
livetime	6066.2009499878	Livetime [s]
ontime1	6143.9999771714	Sum of GTIs [s]
ontime2	6143.9999771714	Sum of GTIs [s]
ontime3	6143.9999771714	Sum of GTIs [s]
ontime6	6143.9999771714	Sum of GTIs [s]
ontime7	6143.9999771714	Sum of GTIs [s]
ontime8	6143.9999771714	Sum of GTIs [s]
l2events	595544	Number of level 2 events

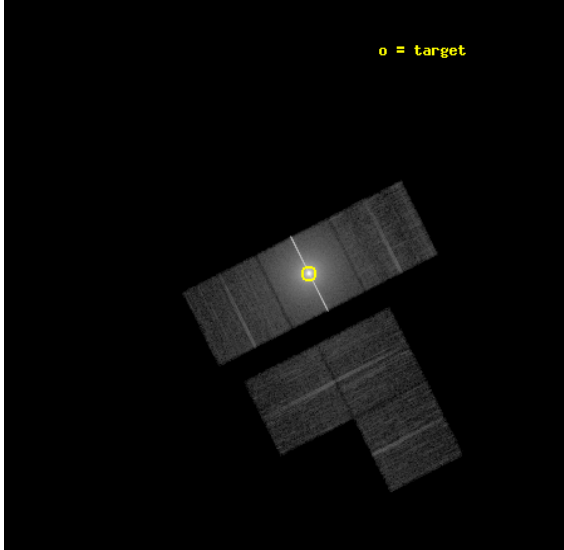


2 OBI

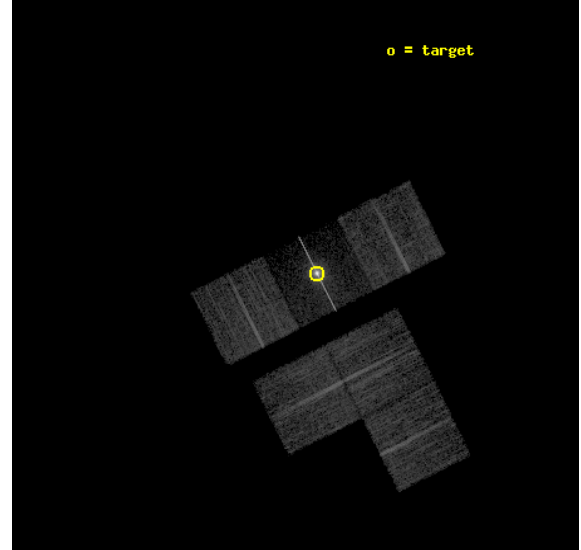
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	6143.9999771714	Sum of GTIs [s]
caldbver	4.4.9	 	ontime1	6143.9999771714	Sum of GTIs [s]
date	2012-05-08T14:48:50	Date and time of file creation	ontime2	6143.9999771714	Sum of GTIs [s]
revision	2	Processing version of data	ontime3	6143.9999771714	Sum of GTIs [s]
			ontime6	6143.9999771714	Sum of GTIs [s]
			ontime7	6143.9999771714	Sum of GTIs [s]
			ontime8	6143.9999771714	Sum of GTIs [s]
			l1events	942384	Number of level 1 events

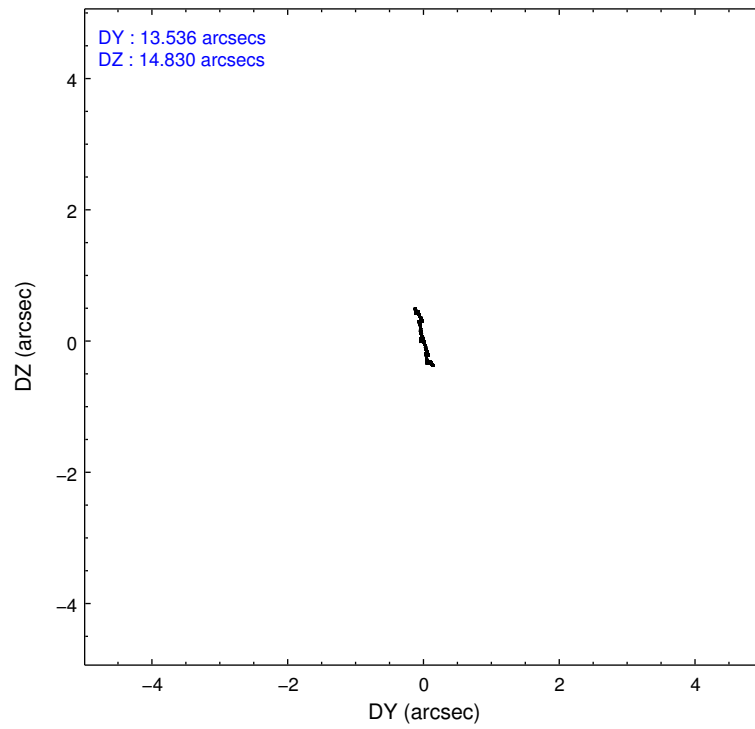
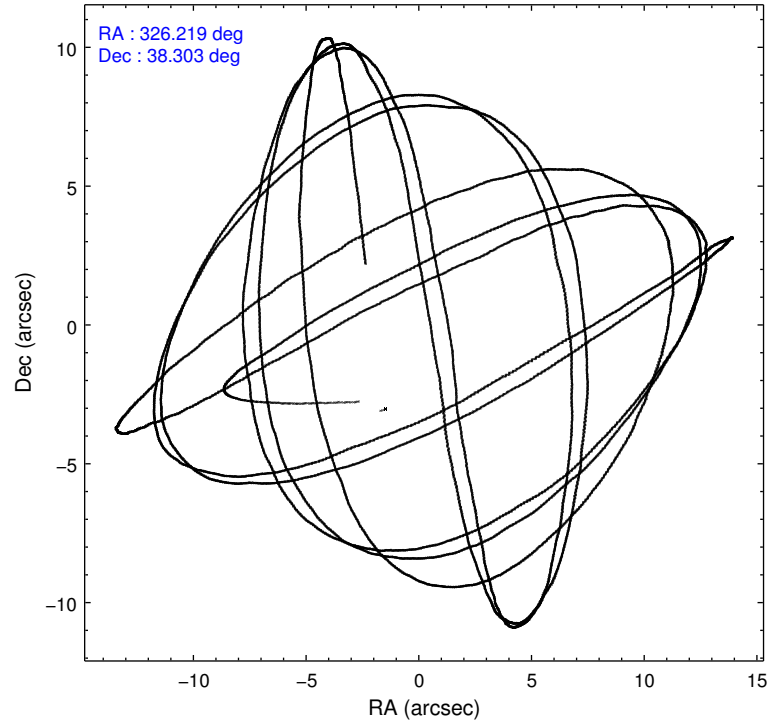
2.1.3 Events

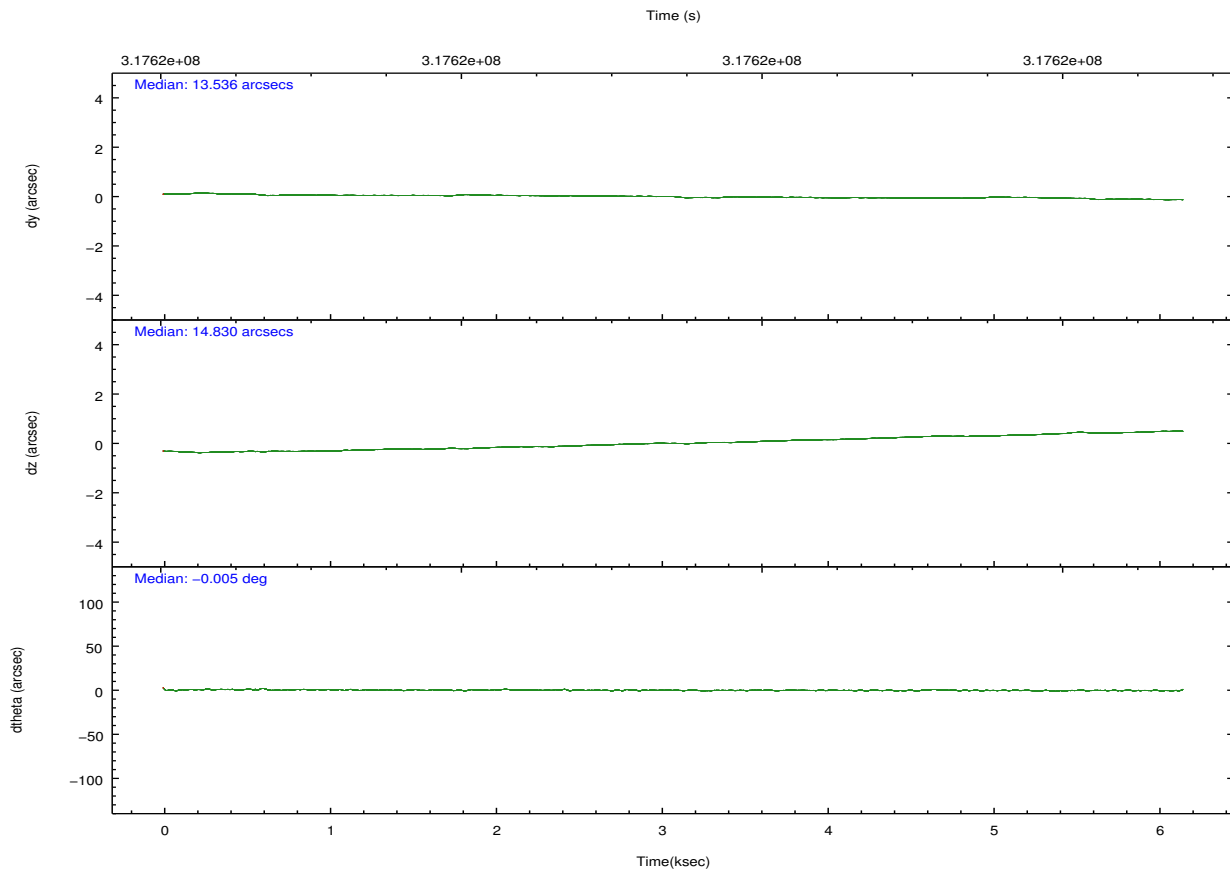
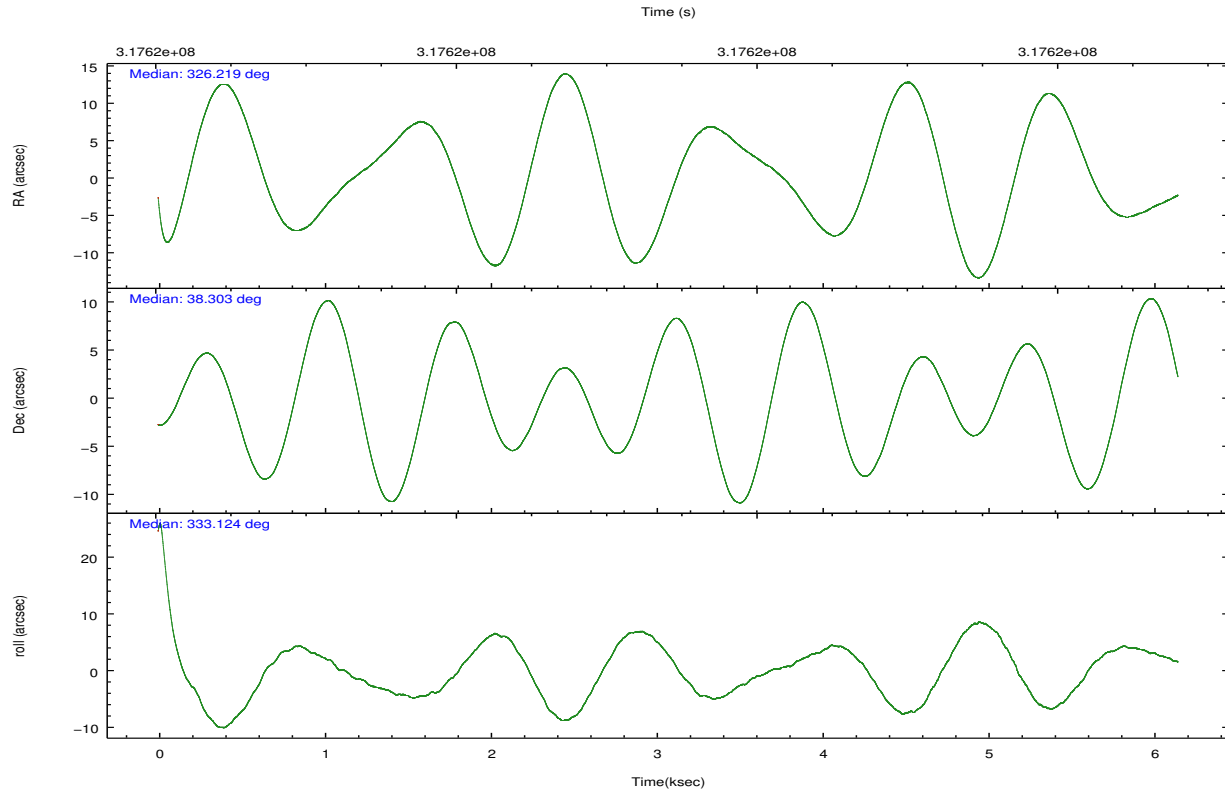
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	52159	49999	56888	67168	643041	73129	grade 0 events	7819	5863	10242	19675	111697	20376
rejected events	46770	40995	45377	40349	93673	39649		14%	11%	18%	29%	17%	27%
rejected %	89%	81%	79%	60%	14%	54%	grade 1 events	789	38	571	95	3713	107
								1%	0%	1%	0%	0%	0%
							grade 2 events	2511	1902	2722	4241	174594	5961
								4%	3%	4%	6%	27%	8%
							grade 3 events	941	488	842	1198	52471	2143
								1%	0%	1%	1%	8%	2%
							grade 4 events	855	503	848	1092	52085	2010
								1%	1%	1%	1%	8%	2%
							grade 5 events	1268	598	1210	791	16862	1413
								2%	1%	2%	1%	2%	1%
							grade 6 events	1251	777	1274	1509	175475	4512
								2%	1%	2%	2%	27%	6%
							grade 7 events	36725	39830	39179	38567	56144	36607
								70%	79%	68%	57%	8%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-123678	ACIS-123678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	326.184686	326.219440861234	Subarray requested	NONE	NONE
[deg] Pointing Dec	38.301071	38.30299901805372	Alternating exposures requested	N	N
[deg] Pointing Roll	332.991922	333.1270437277344	[s] Primary exposure time	0.000000	3.2
[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)	317618475.184000	317617265.84137			
Observation start date	2008-01-25T03:20:10	2008-01-25T03:01:05			
[s] Observation end time (MET)	317624475.184000	317625075.82925			
Observation end date	2008-01-25T05:00:10	2008-01-25T05:11:15			
Read mode	TIMED	TIMED			

2.3 Aspect



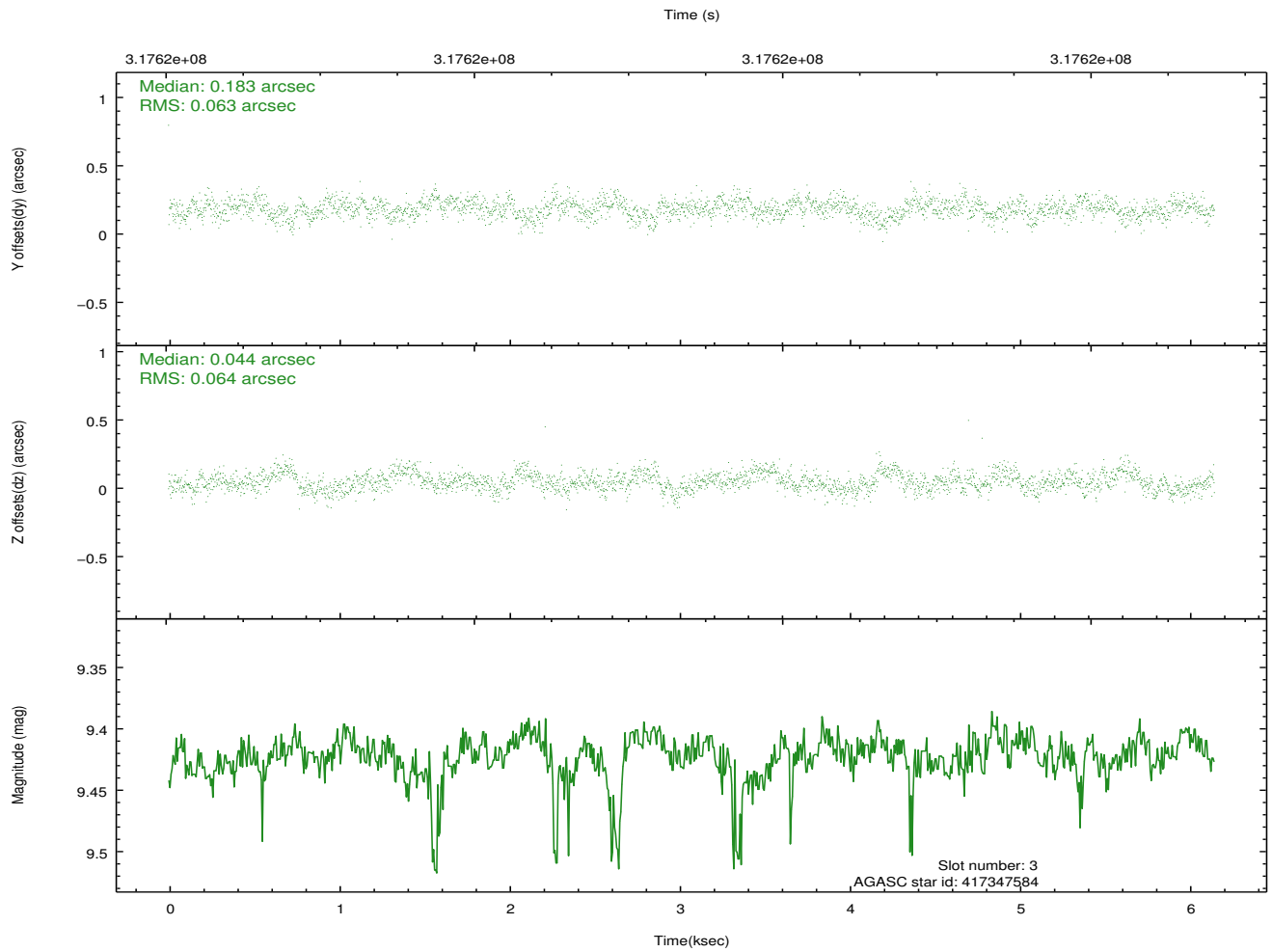
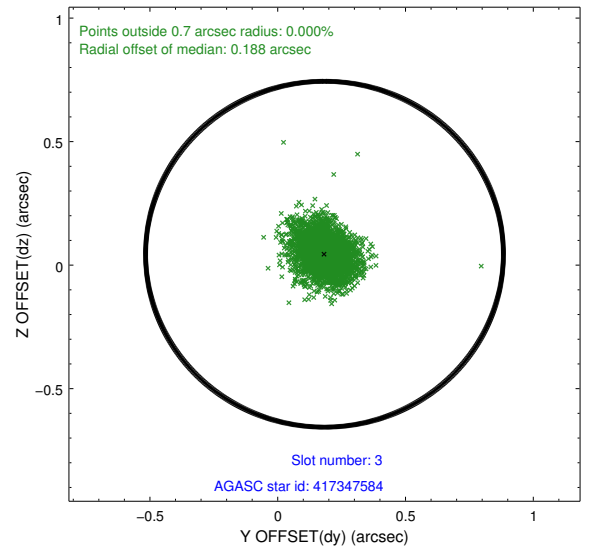
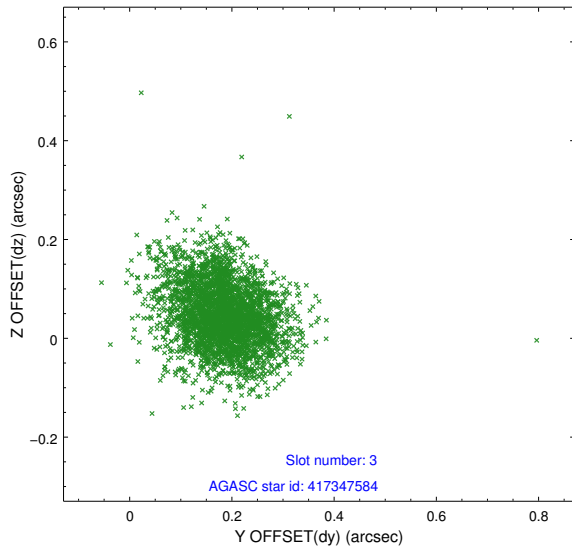


Slot Statistics

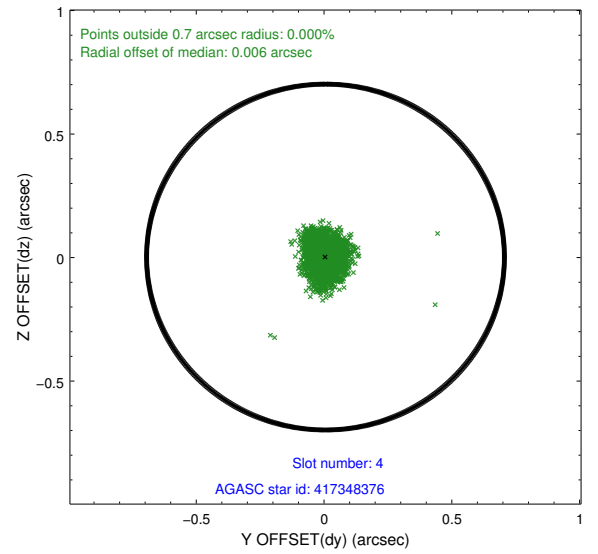
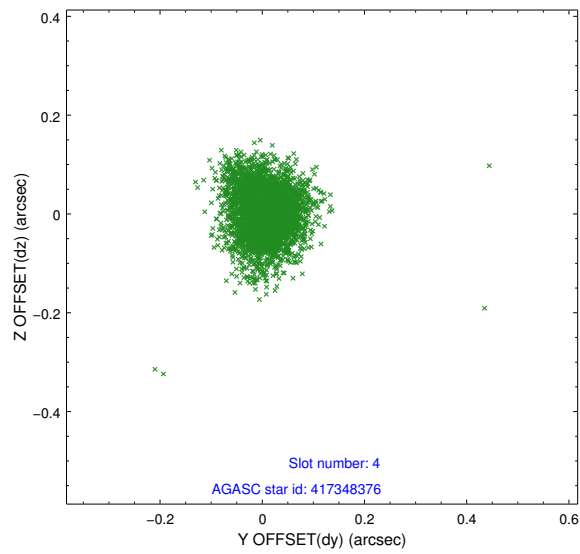
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1500	-0.059	-0.024	0.009	0.015	0.000000	0.000000	-766.50	-1736.26
1	FID	ACIS-S-4	7.19	1500	0.179	0.035	0.006	0.011	0.000000	0.000000	2146.55	171.32
2	FID	ACIS-S-5	7.21	1500	-0.151	-0.002	0.008	0.013	0.000000	0.000000	-1818.23	166.00
3	GUIDE	417347584	9.42	2991	0.183	0.044	0.093	0.155	326.789051	38.342651	1450.31	913.21
4	GUIDE	417348376	8.22	3000	0.006	0.002	0.068	0.113	325.737694	38.184491	-937.12	-946.19
5	GUIDE	417351928	7.77	2999	-0.158	0.009	0.056	0.090	326.969486	38.210974	2120.66	727.07
6	GUIDE	417348152	8.95	2994	-0.087	-0.113	0.091	0.153	326.316862	38.327313	290.50	253.90
7	GUIDE	417352864	6.61	2999	0.057	0.054	0.084	0.126	327.122321	38.648577	1774.96	2323.79

2.4 Star Slots

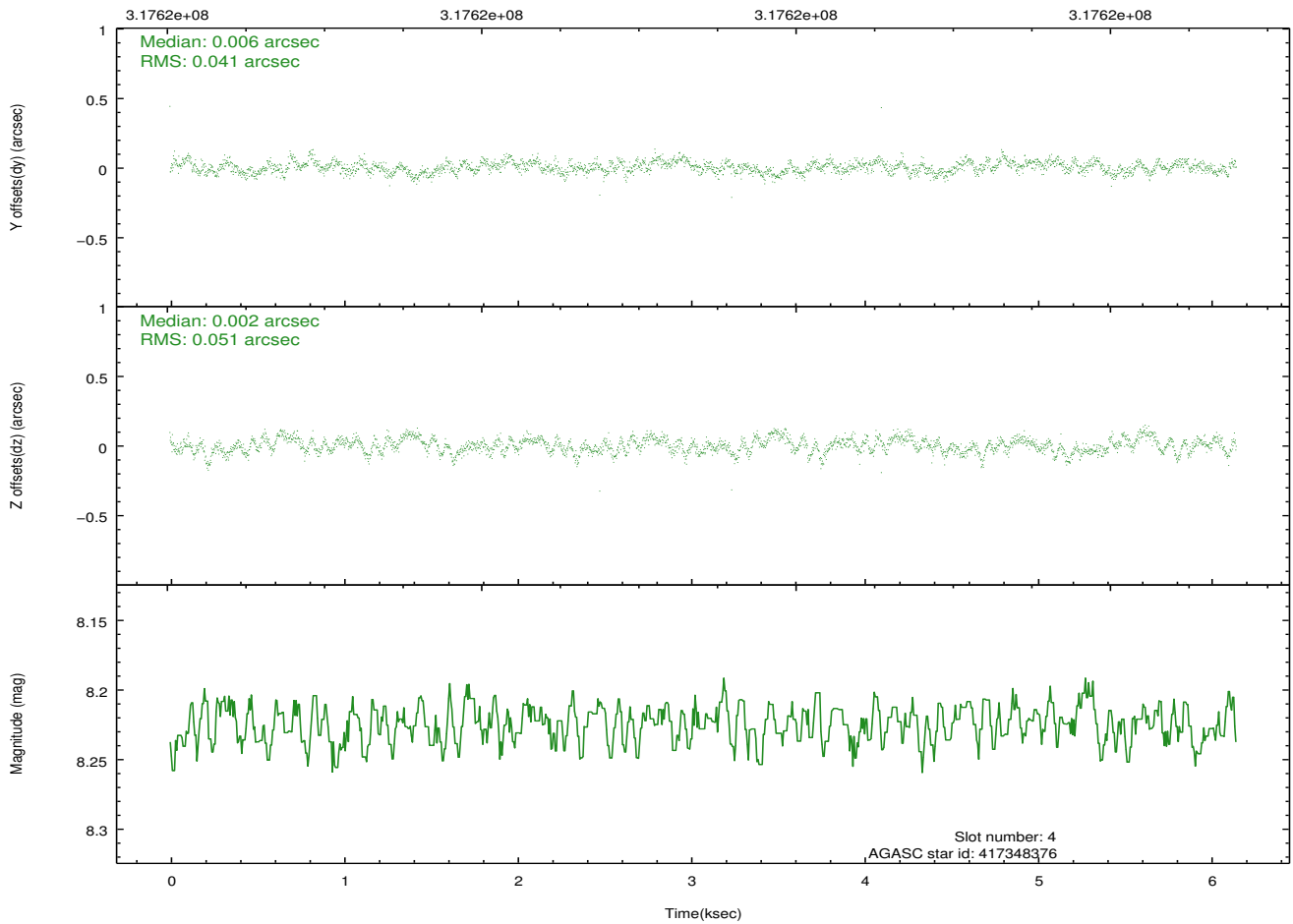
2.4.1 Slot 3



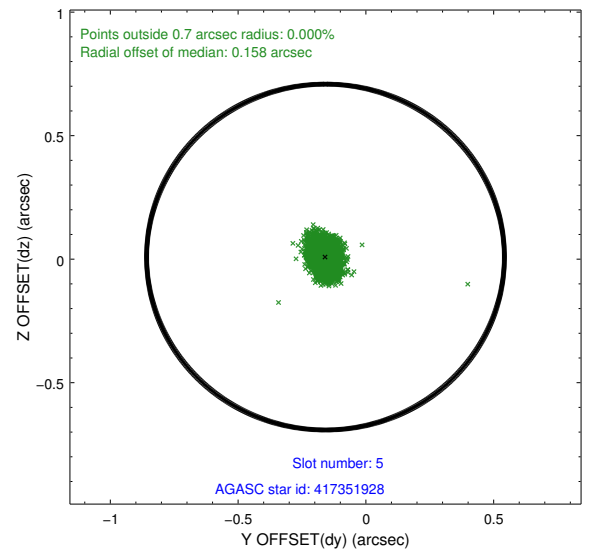
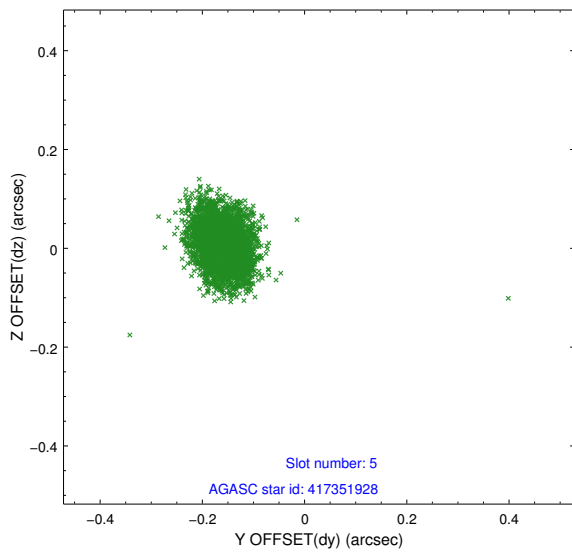
2.4.2 Slot 4



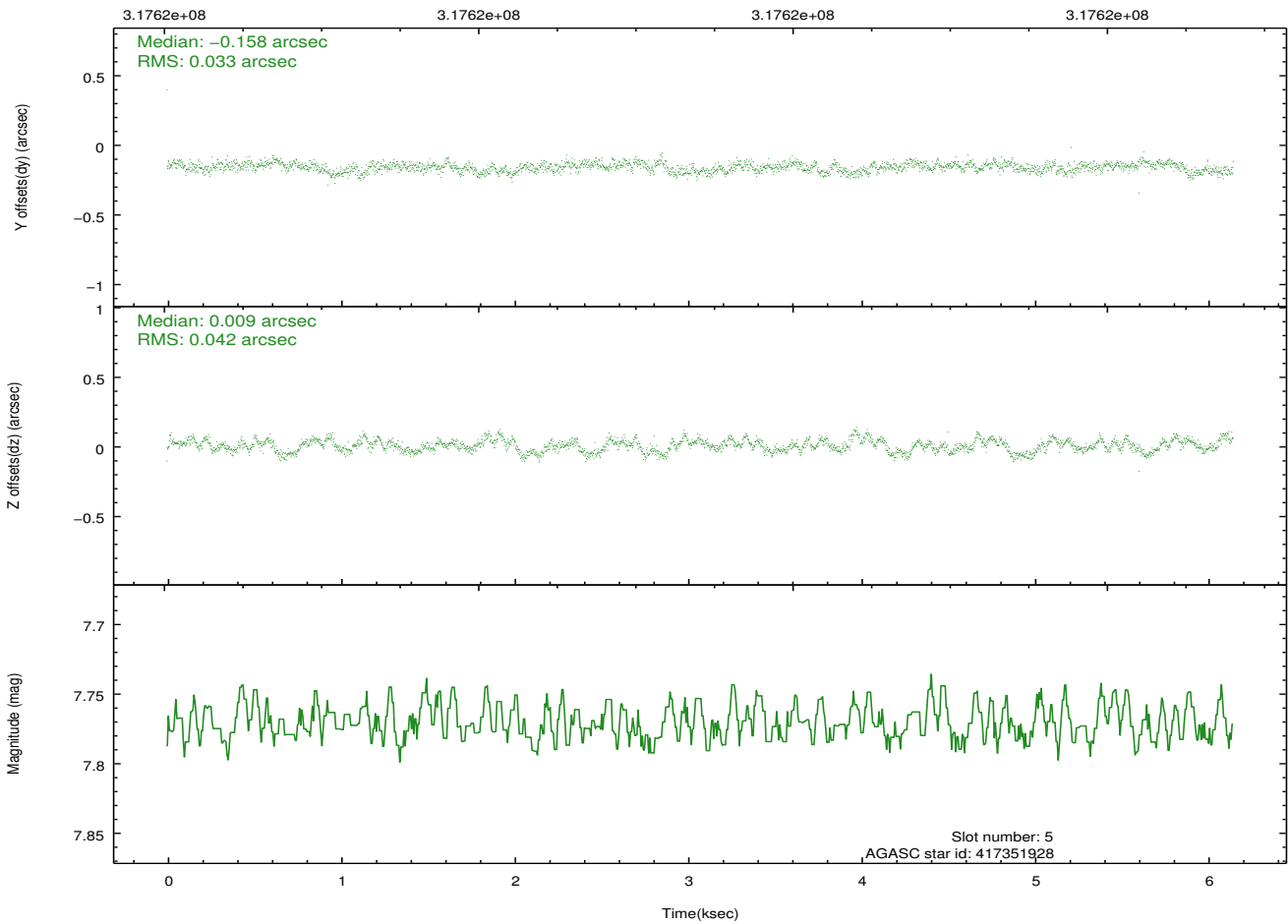
Time (s)



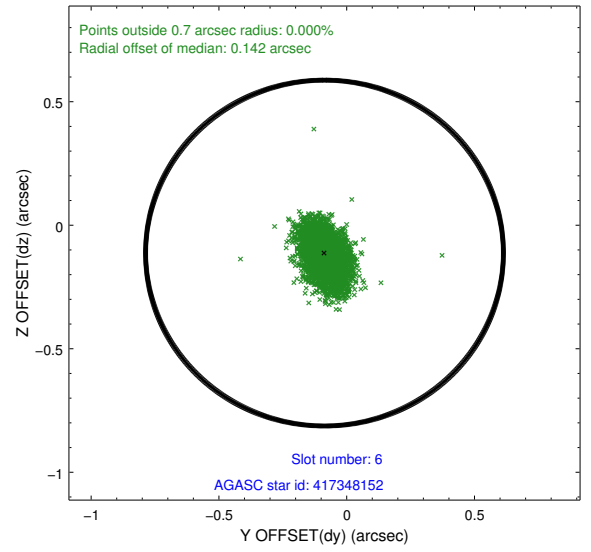
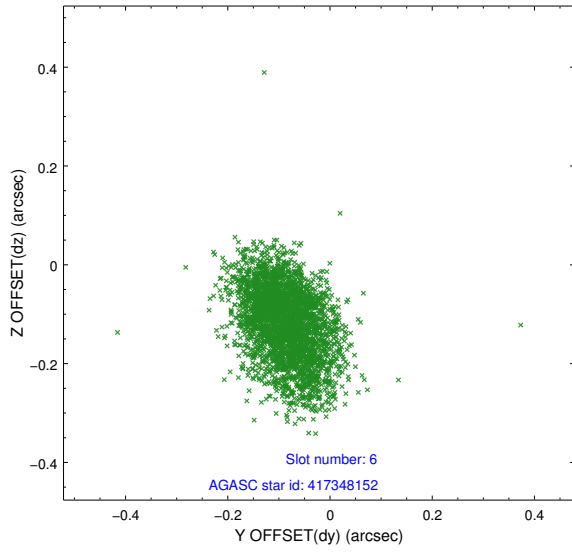
2.4.3 Slot 5



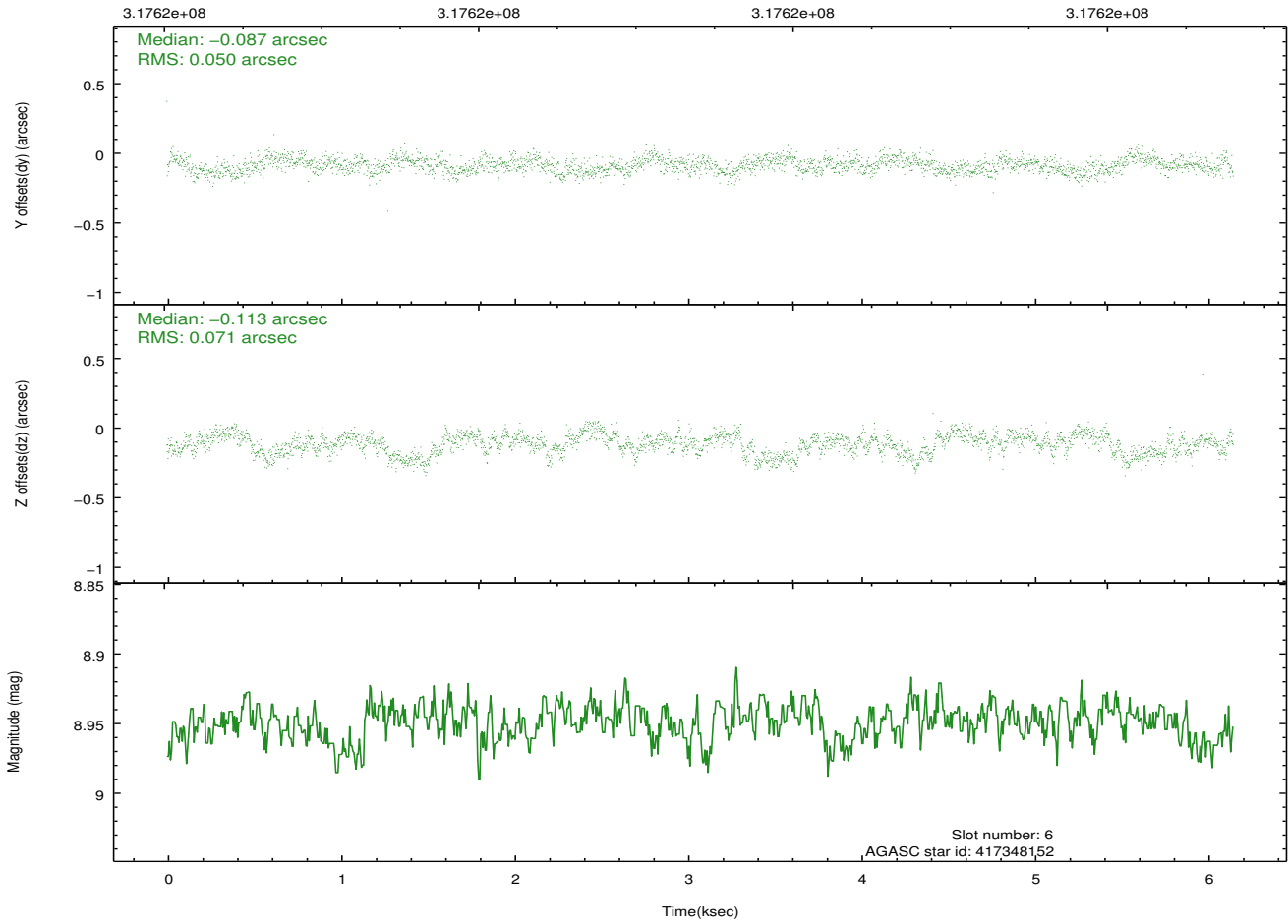
Time (s)



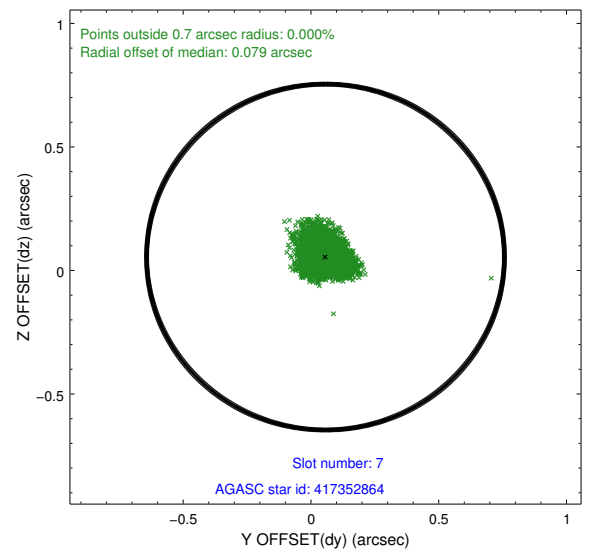
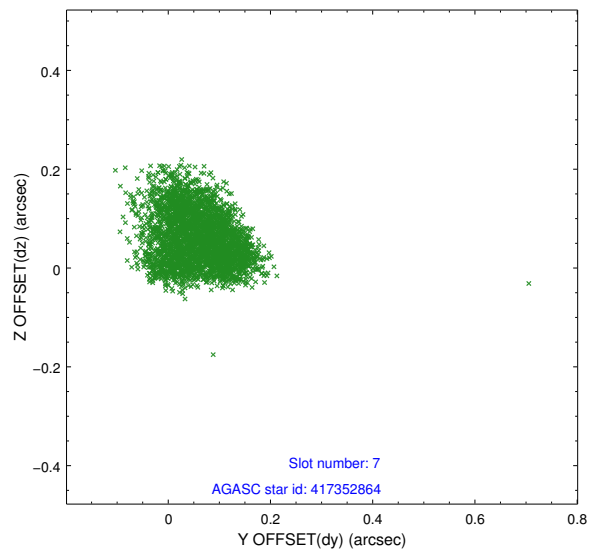
2.4.4 Slot 6



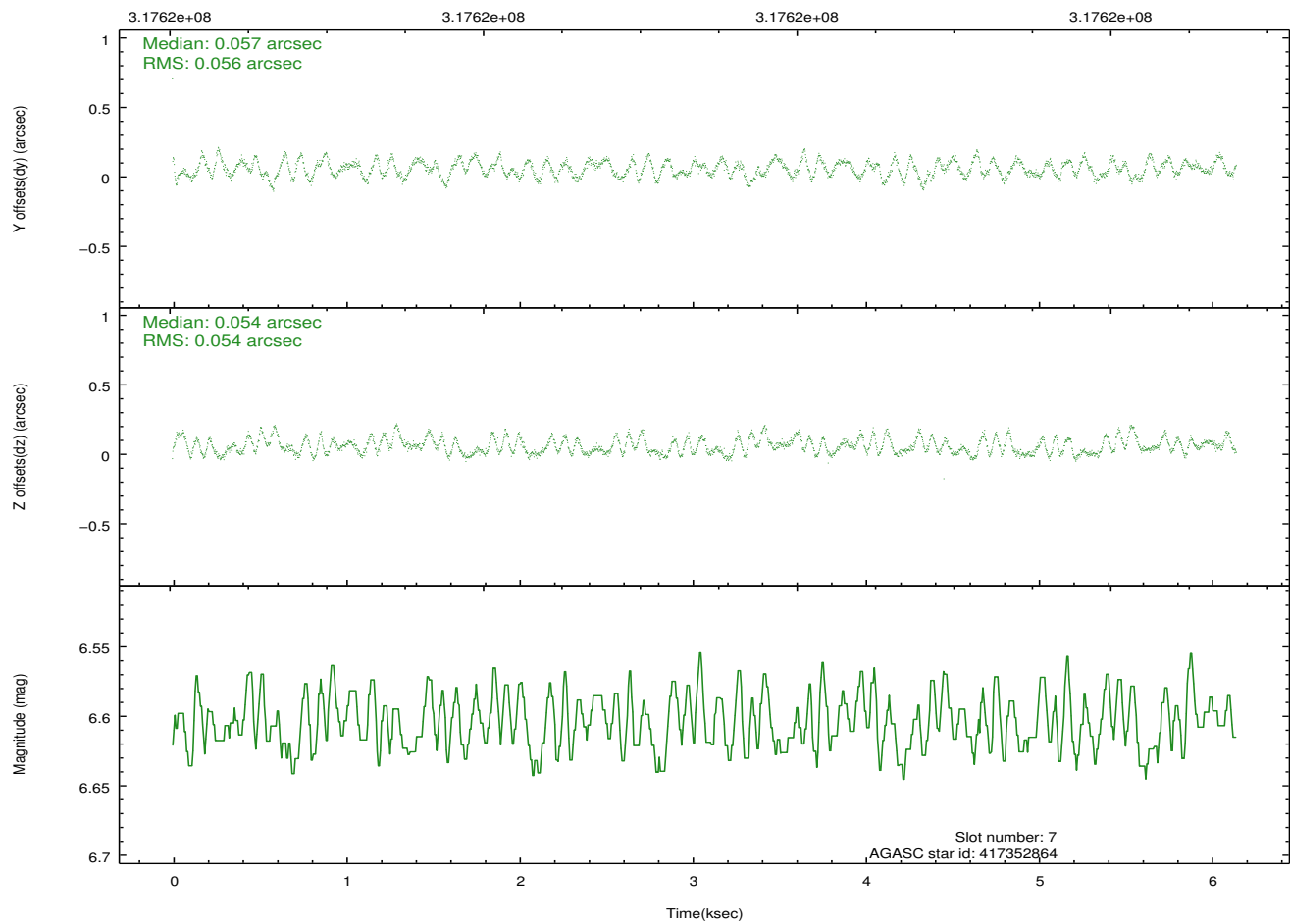
Time (s)



2.4.5 Slot 7

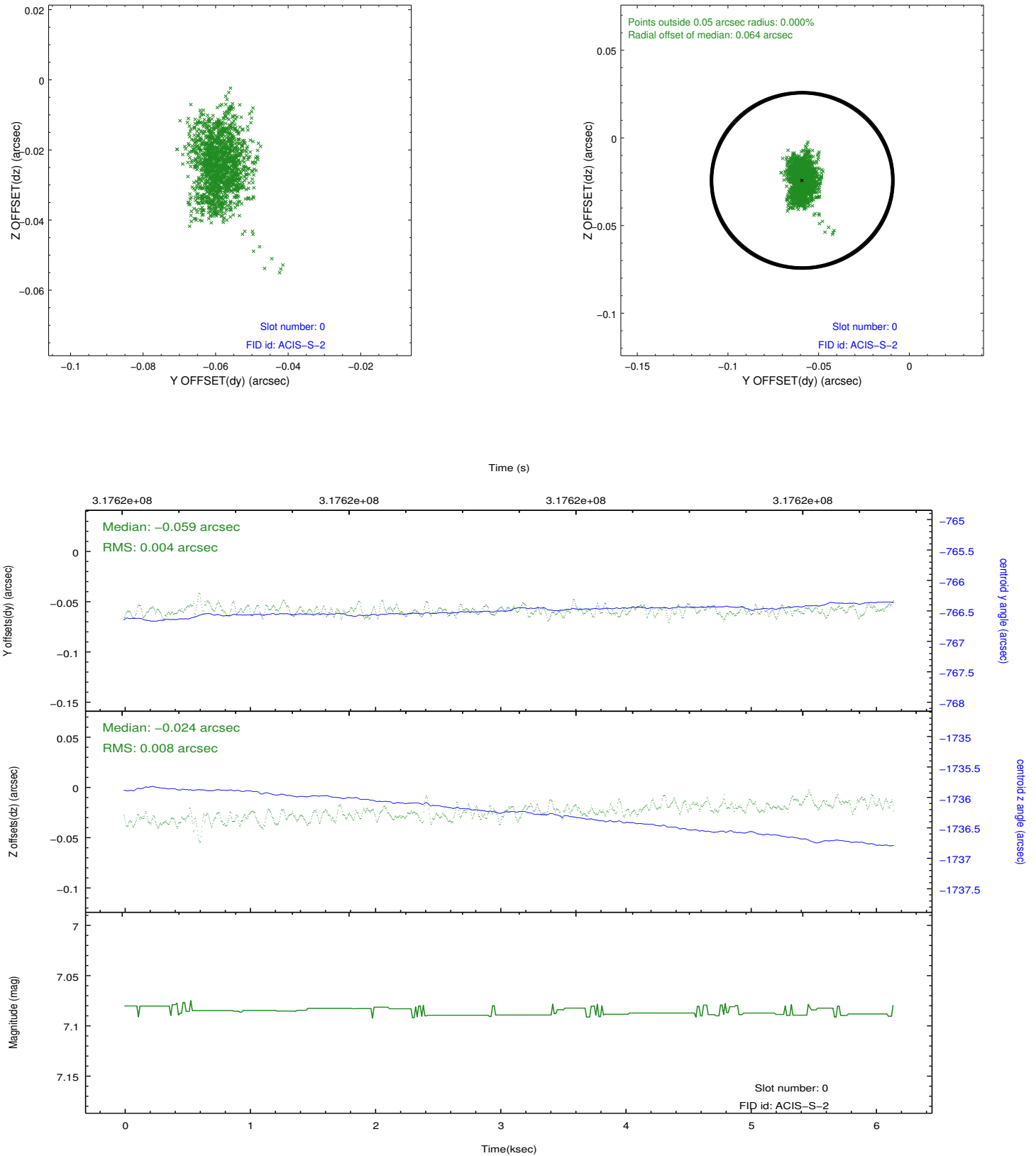


Time (s)

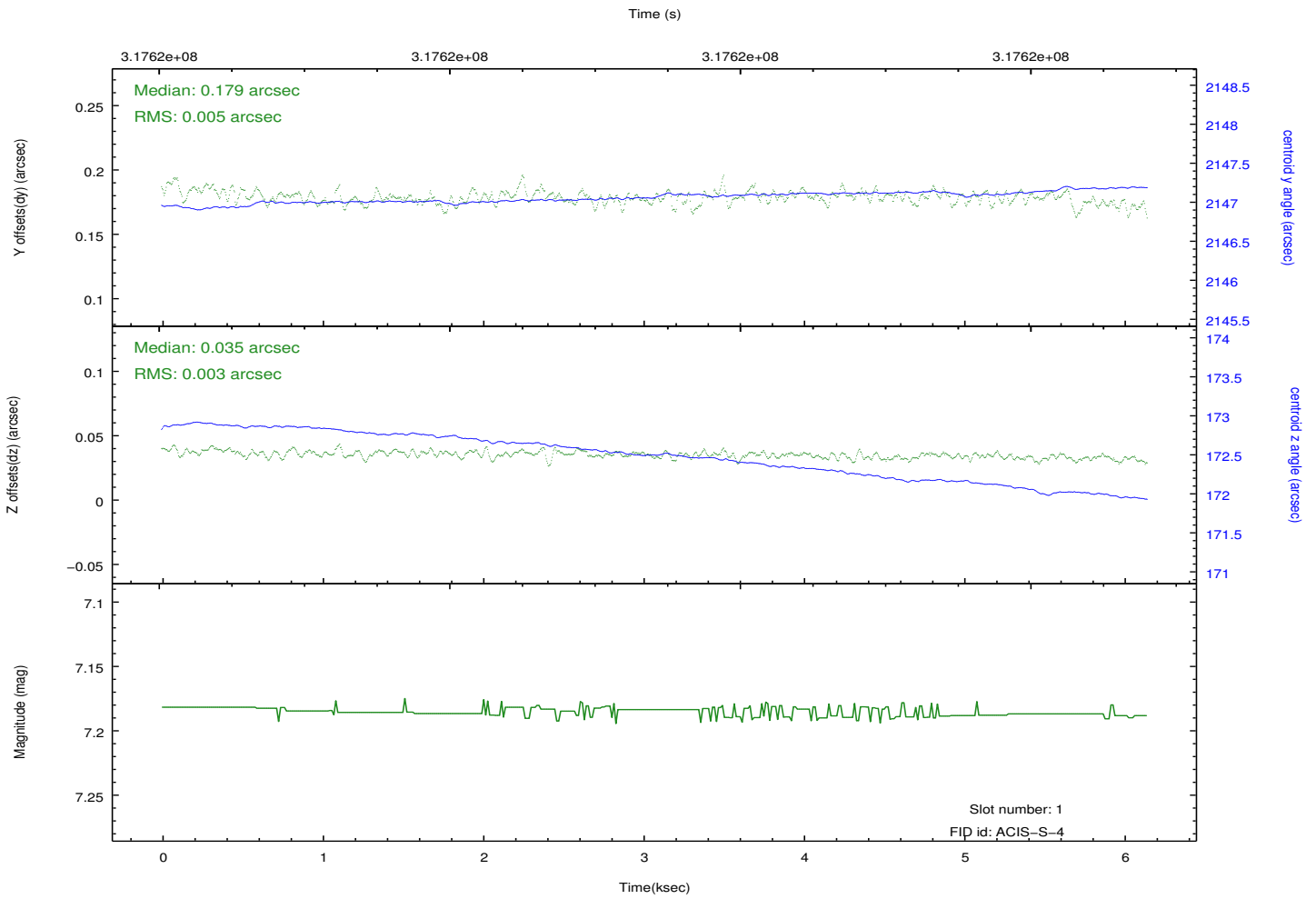
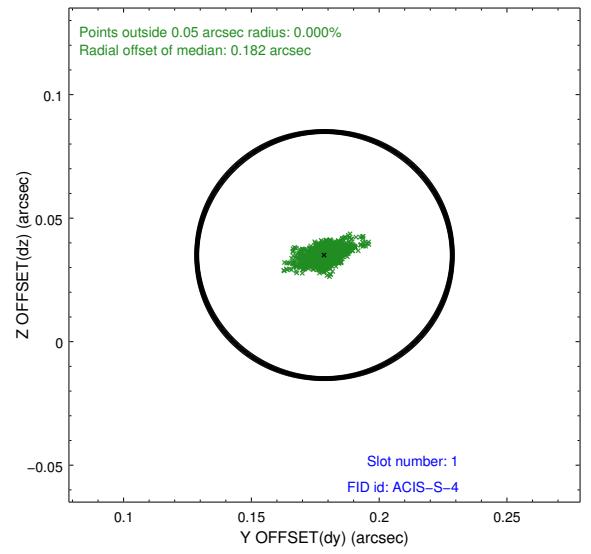
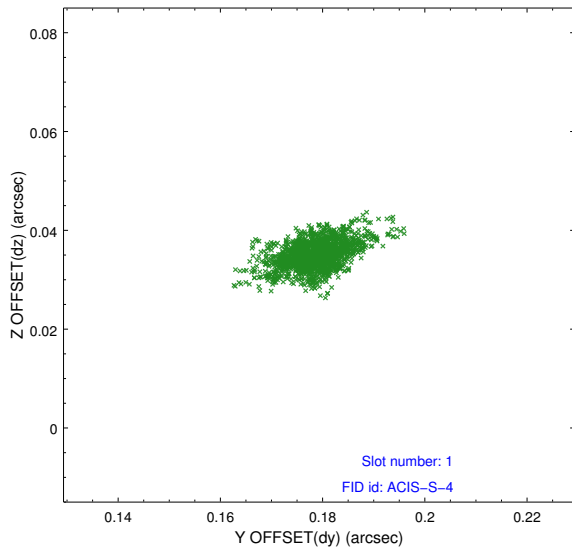


2.5 FID Slots

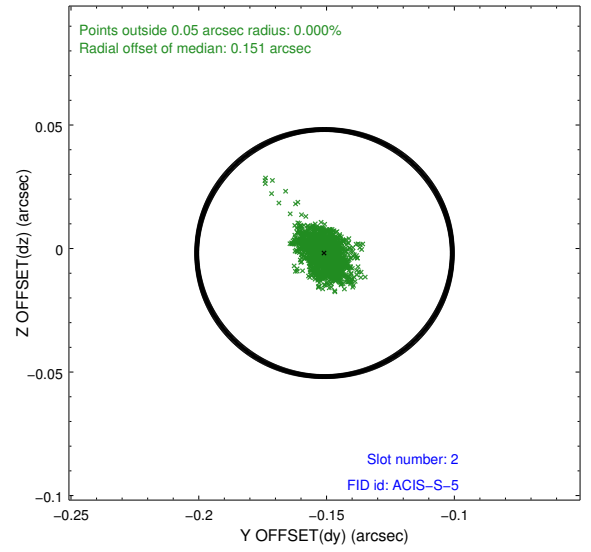
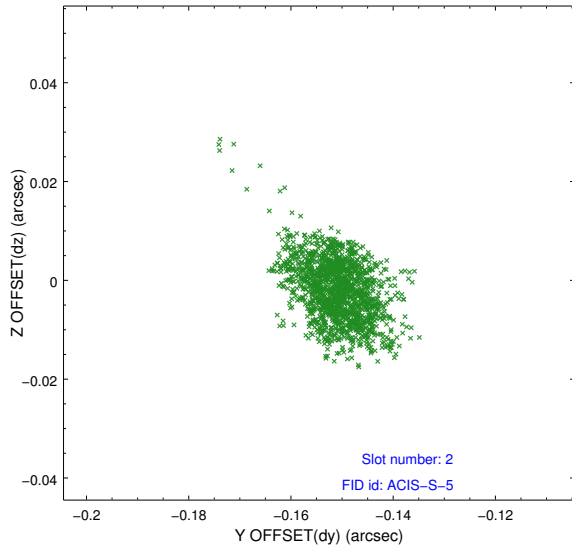
2.5.1 Slot 0



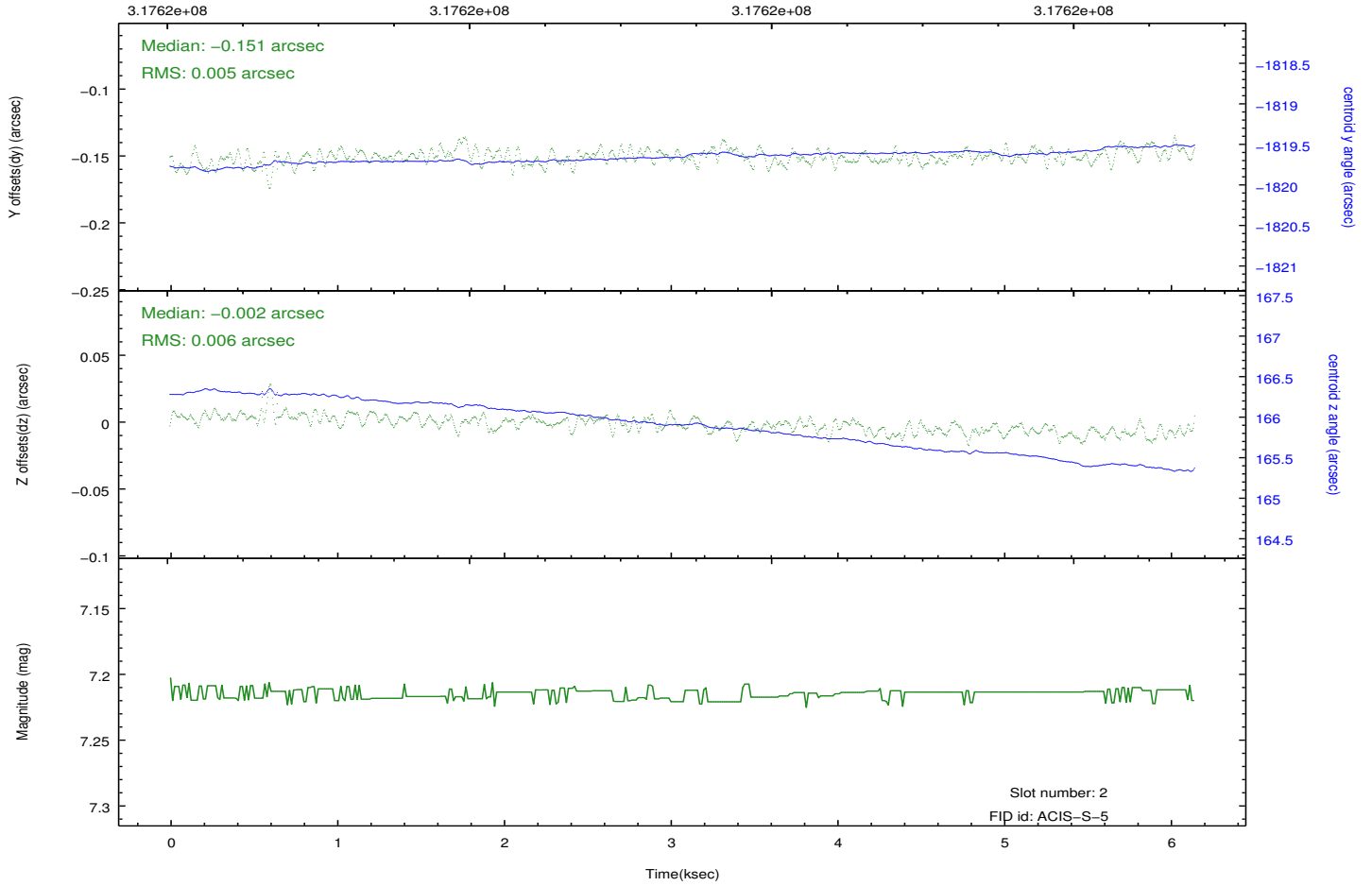
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.14399997

A.2 Comments

Monitor constraint met, follows obs8224 by 305 days.