

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 4831 - L2 Version 3  
Chandra X-Ray Center

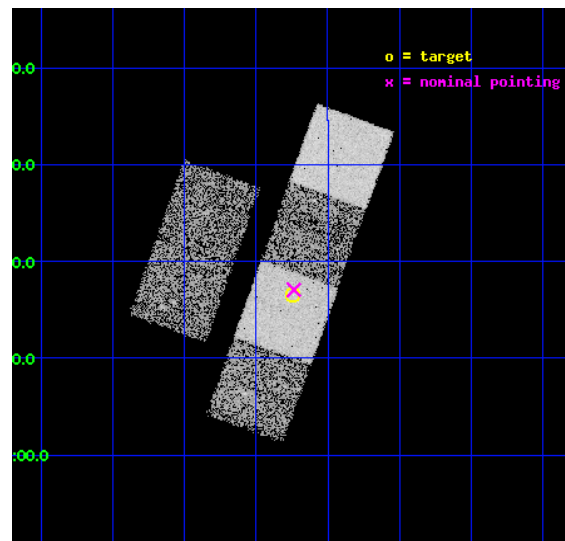
L2 Processing Date : Dec 7 2012

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# 1 Front

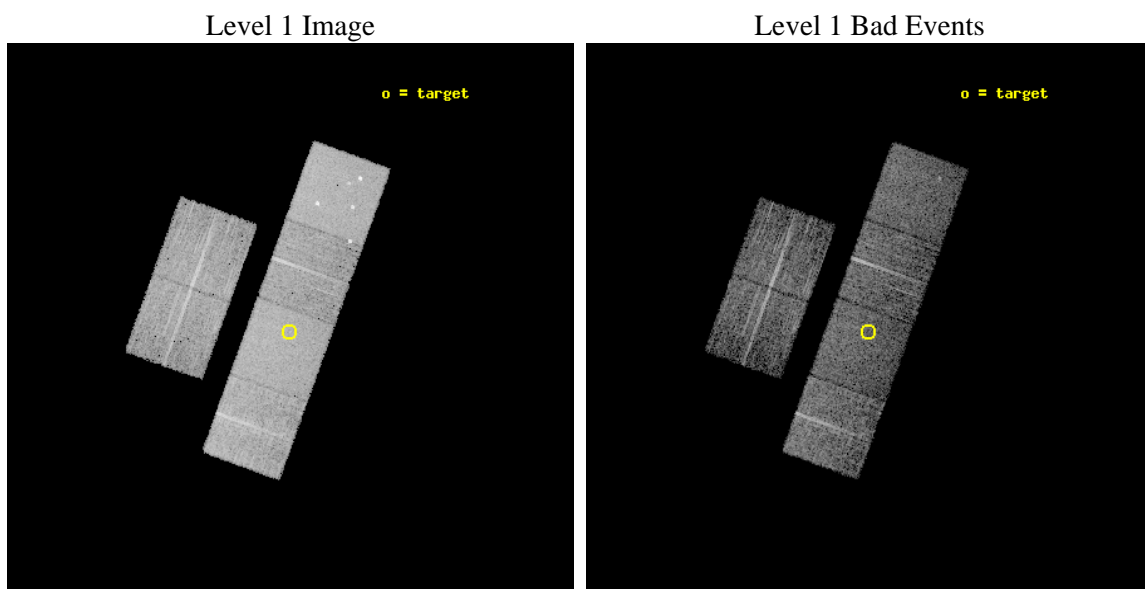
seq_num	700913	Sequence number
obs_id	4831	Observation id
title	Constraining the Hard-X-ray Through Submm SEDs of a Complete Sample of Broad Absorption Line Quasars	Proposal title
observer	Dr. Sarah Gallagher	Principal investigator
object	LBQS 0054+0200	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	14.185833	Observer's specified target RA [deg]
dec_targ	2.275028	Observer's specified target Dec [deg]
ra_nom	14.184165421995	Nominal RA [deg]
dec_nom	2.2845630267821	Nominal Dec [deg]
roll_nom	109.86990002516	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5958.3999778032	Sum of GTIs [s]
livetime	5882.9511295666	Livetime [s]
ontime2	5958.3999778032	Sum of GTIs [s]
ontime3	5958.3999778032	Sum of GTIs [s]
ontime5	5958.3999778032	Sum of GTIs [s]
ontime6	5958.3999778032	Sum of GTIs [s]
ontime7	5958.3999778032	Sum of GTIs [s]
ontime8	5958.3999778032	Sum of GTIs [s]
l2events	69429	Number of level 2 events



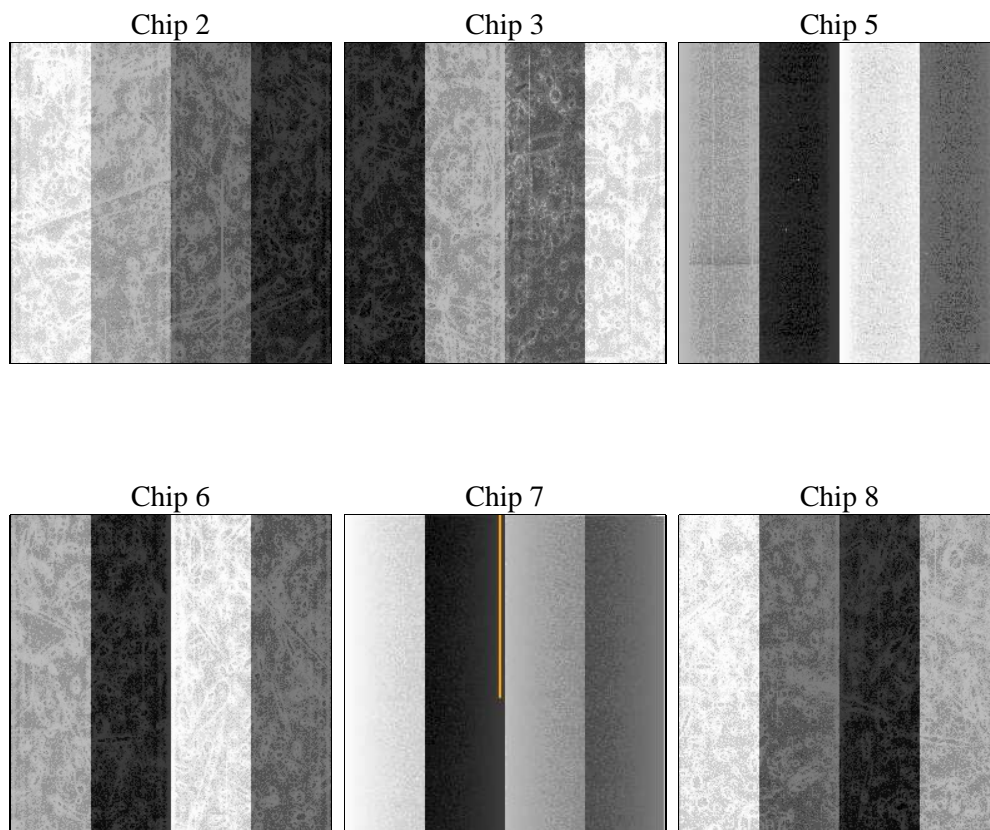
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	5958.3999778032	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime2	5958.3999778032	Sum of GTIs [s]
date	2012-12-07T16:19:24	Date and time of file creation	ontime3	5958.3999778032	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5958.3999778032	Sum of GTIs [s]
			ontime6	5958.3999778032	Sum of GTIs [s]
			ontime7	5958.3999778032	Sum of GTIs [s]
			ontime8	5958.3999778032	Sum of GTIs [s]
			l1events	312989	Number of level 1 events

### 2.1.4 Events

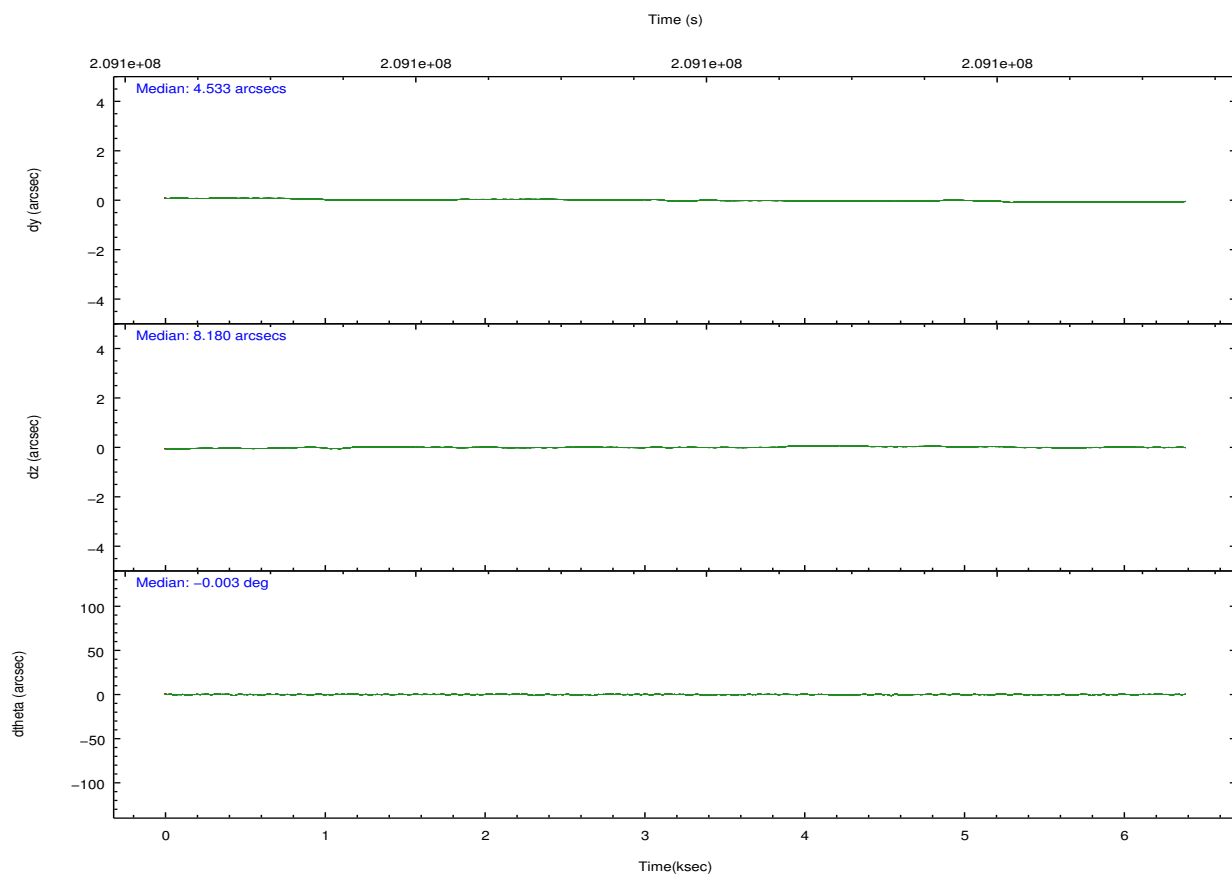
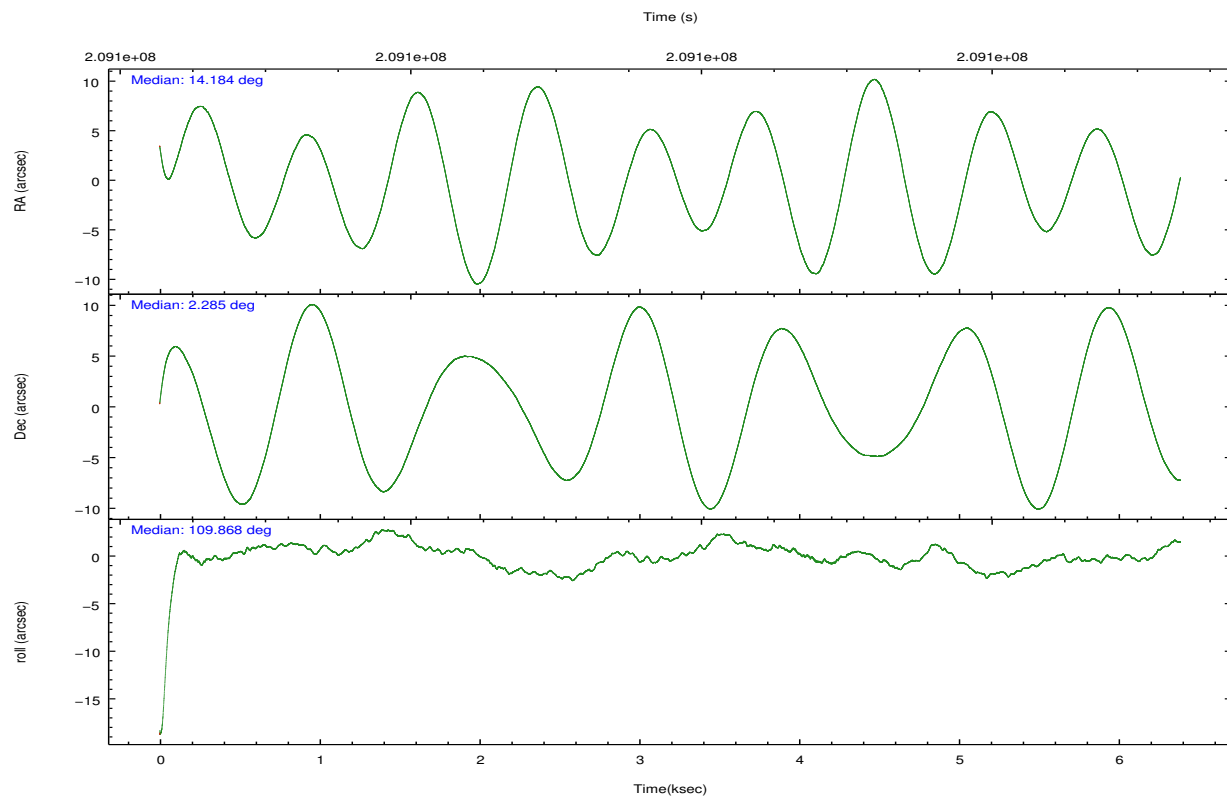
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44923	41006	67069	43414	58379	58198	grade 0 events	2143	2196	4874	2091	2140	3920
rejected events	39882	36028	35520	38247	34366	45767		4%	5%	7%	4%	3%	6%
rejected %	88%	87%	52%	88%	58%	78%	grade 1 events	23	25	217	15	58	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	1082	954	8974	1090	4765	2686
								2%	2%	13%	2%	8%	4%
							grade 3 events	465	482	1164	470	2106	1262
								1%	1%	1%	1%	3%	2%
							grade 4 events	469	484	1077	492	2072	1250
								1%	1%	1%	1%	3%	2%
							grade 5 events	1671	1850	4538	1985	5573	2648
								3%	4%	6%	4%	9%	4%
							grade 6 events	884	863	15480	1025	12944	3329
								1%	2%	23%	2%	22%	5%
							grade 7 events	38186	34152	30745	36246	28721	43068
								85%	83%	45%	83%	49%	74%



## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	14.205264	14.18416542199478	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.267289	2.284563026782149	Alternating exposures requested	N	N
[deg] Pointing Roll	109.712471	109.8699000251562	[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)	209098975.184000	209097914.45728			
Observation start date	2004-08-17T03:01:51	2004-08-17T02:45:14			
[s] Observation end time (MET)	209104975.184000	209105642.95762			
Observation end date	2004-08-17T04:41:51	2004-08-17T04:54:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect

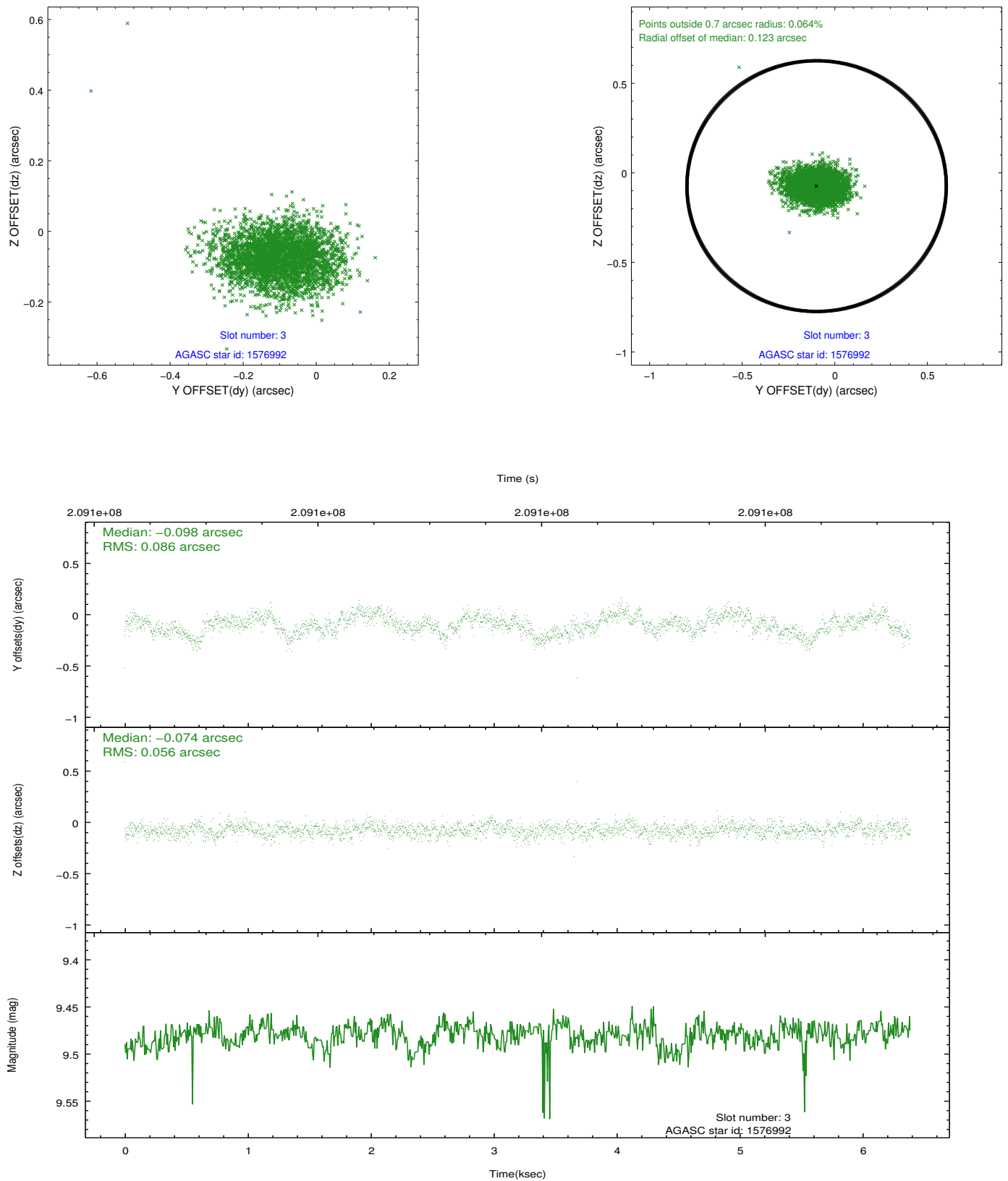


### Slot Statistics

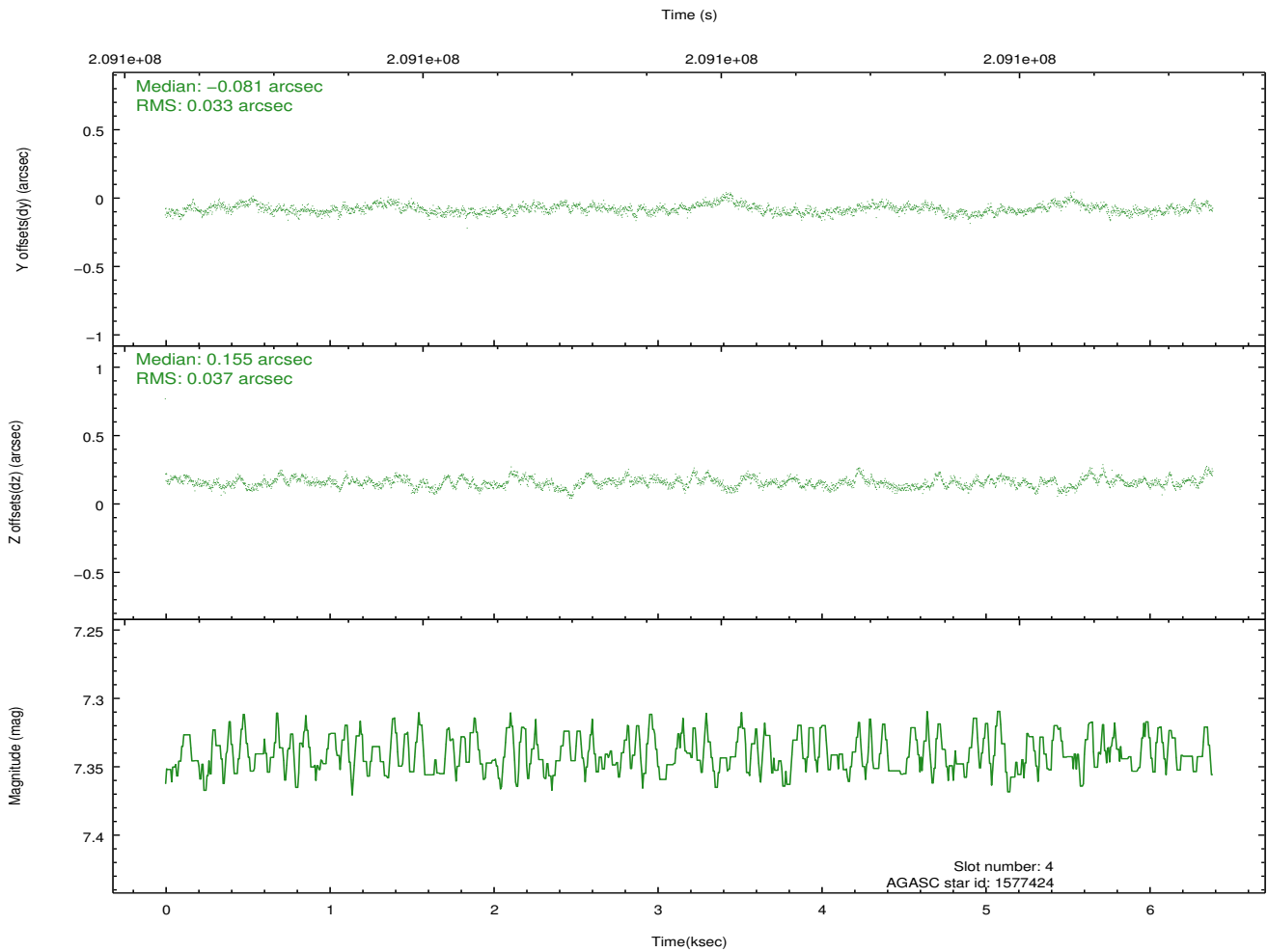
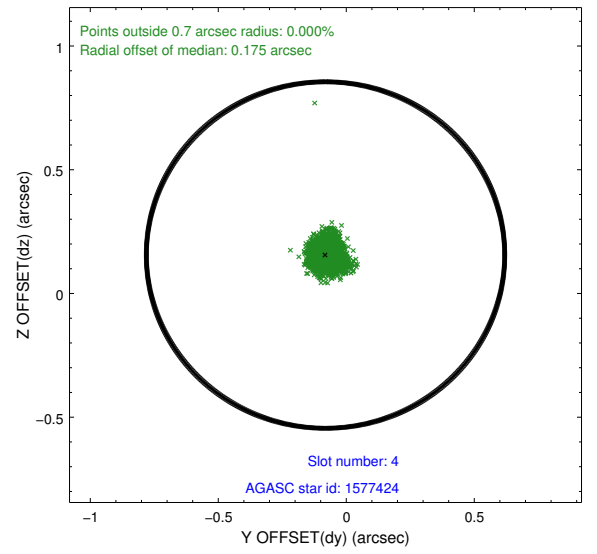
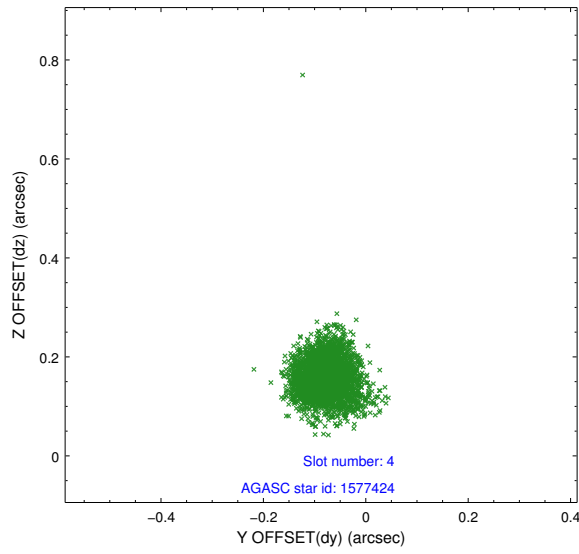
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1559	-0.037	-0.052	0.006	0.011	0.000000	0.000000	-757.27	-1729.42
1	FID	ACIS-S-4	7.20	1559	0.107	0.032	0.006	0.011	0.000000	0.000000	2155.76	178.17
2	FID	ACIS-S-5	7.23	1559	-0.101	0.029	0.006	0.011	0.000000	0.000000	-1808.97	172.92
3	GUIDE	1576992	9.48	3103	-0.098	-0.074	0.107	0.174	13.873856	2.296553	501.39	1086.81
4	GUIDE	1577424	7.34	3117	-0.081	0.155	0.051	0.084	14.496263	2.486296	389.45	-1250.69
5	GUIDE	1578704	8.82	3115	0.122	-0.131	0.062	0.103	14.213044	1.680901	-1996.47	685.18
6	GUIDE	1578896	6.71	3117	-0.007	0.189	0.064	0.099	14.415232	1.785609	-1887.69	-125.92
7	GUIDE	1581504	9.30	3115	0.064	-0.143	0.084	0.137	14.179515	1.875214	-1298.13	563.23

## 2.4 Star Slots

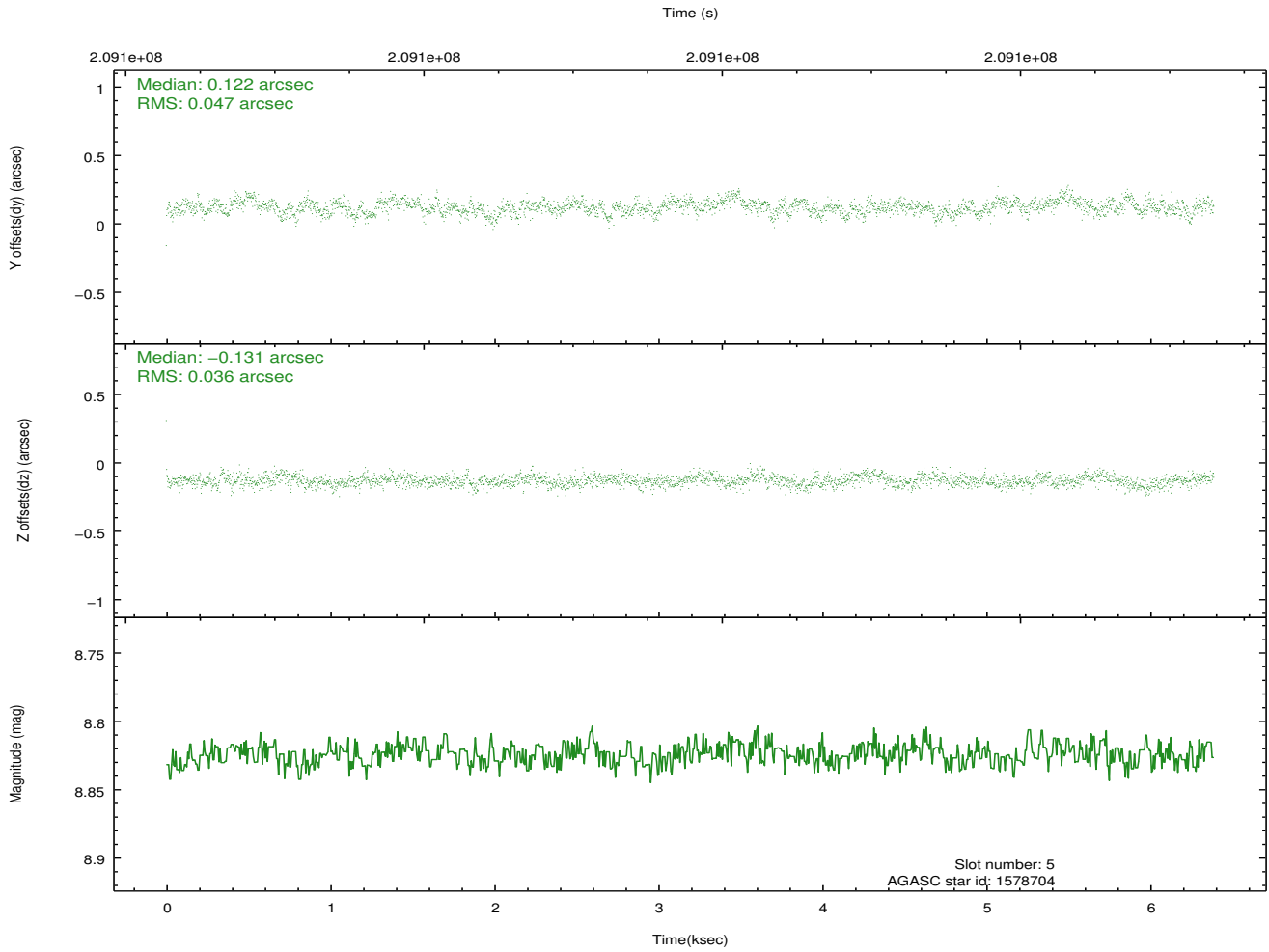
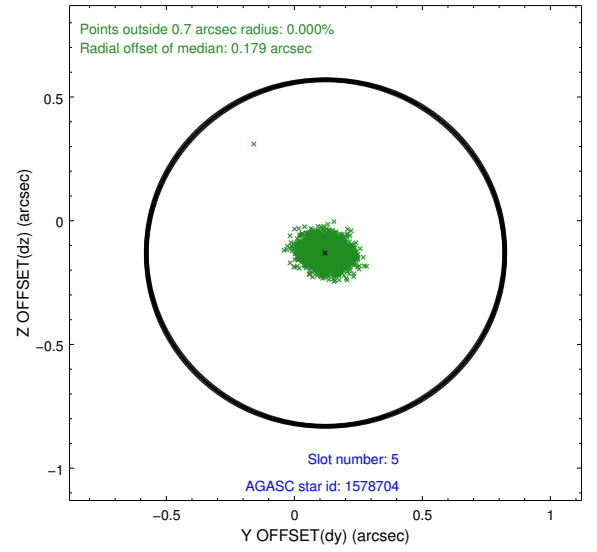
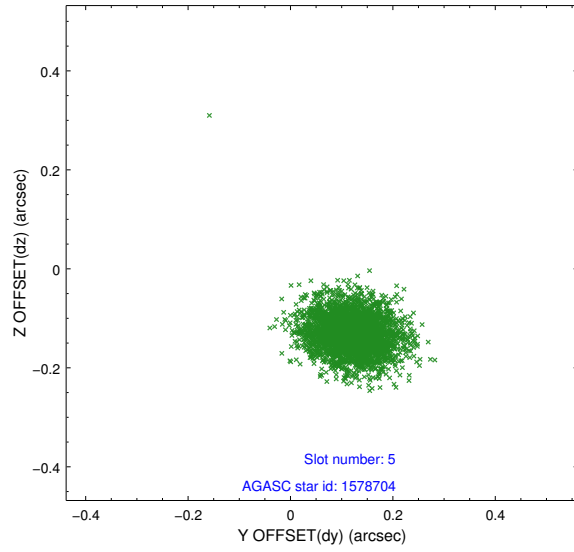
### 2.4.1 Slot 3



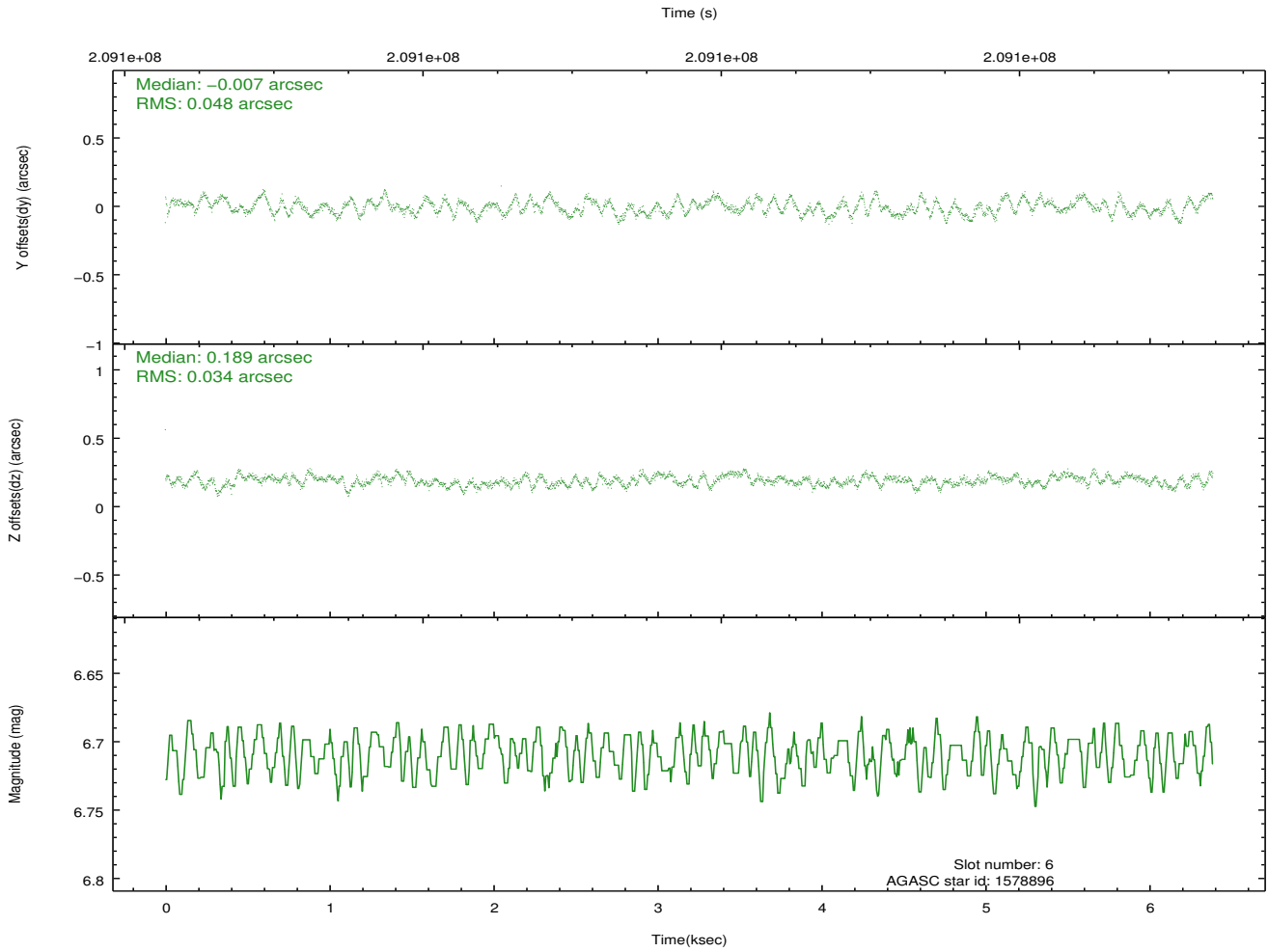
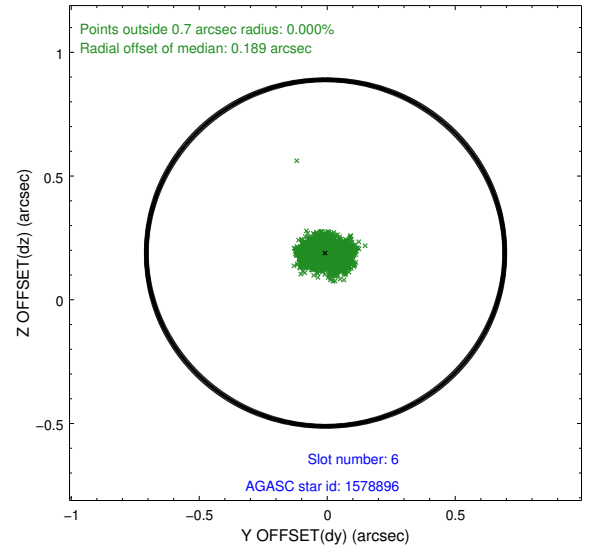
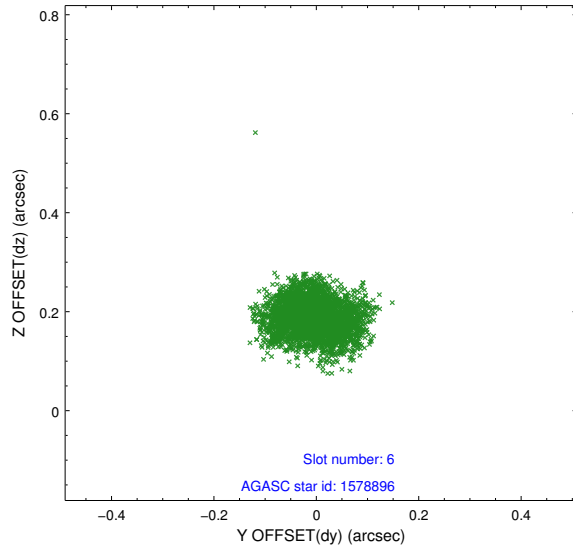
## 2.4.2 Slot 4



### 2.4.3 Slot 5

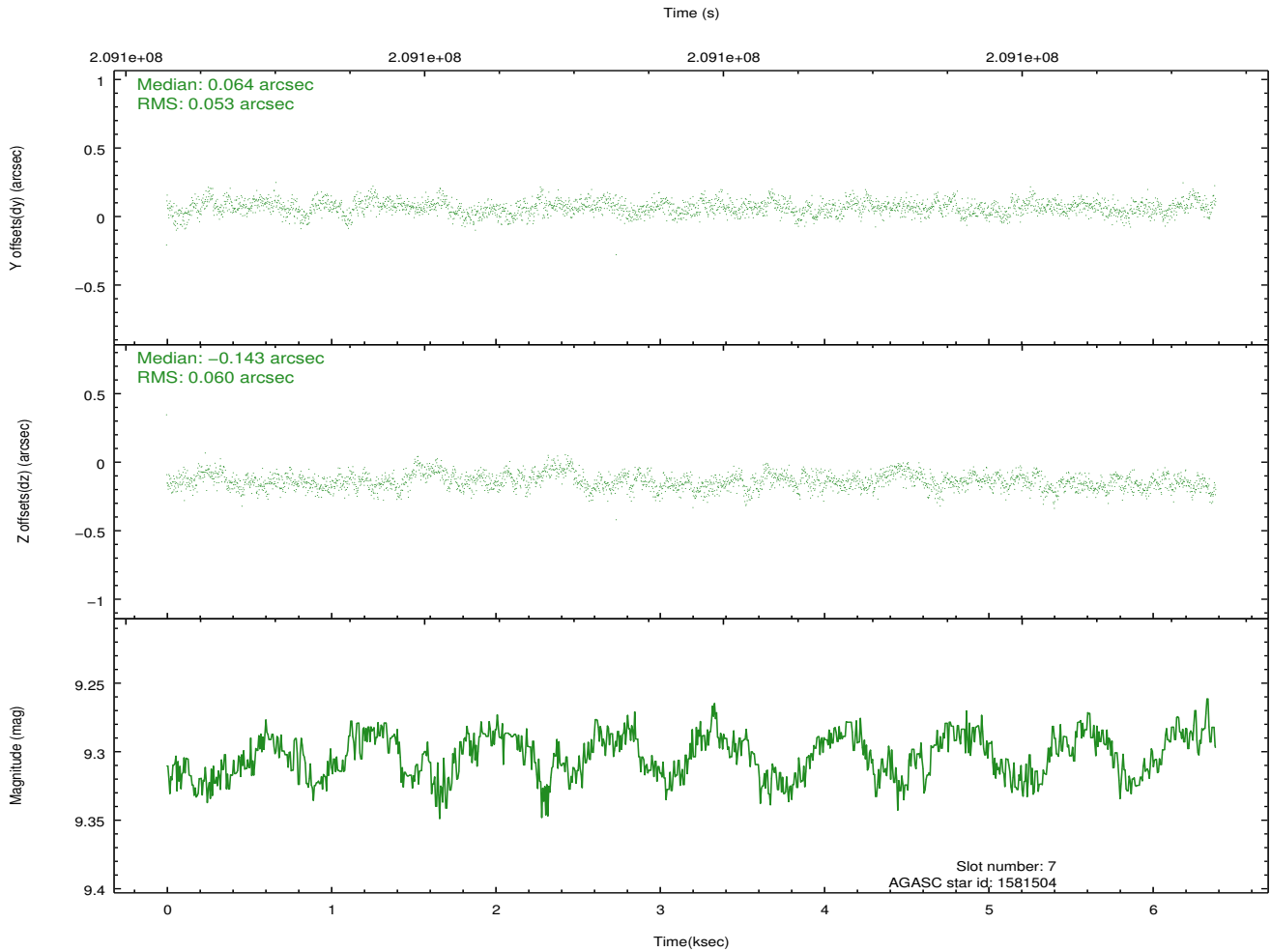
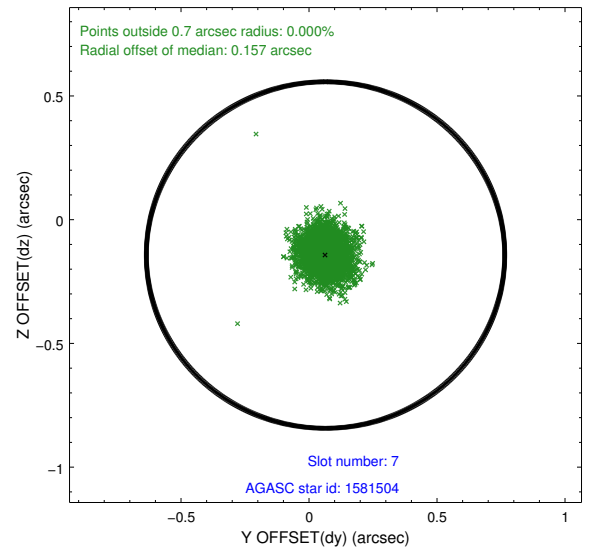
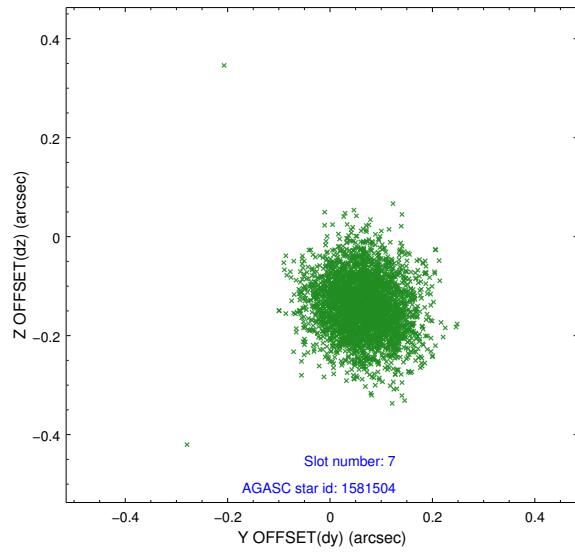


## 2.4.4 Slot 6



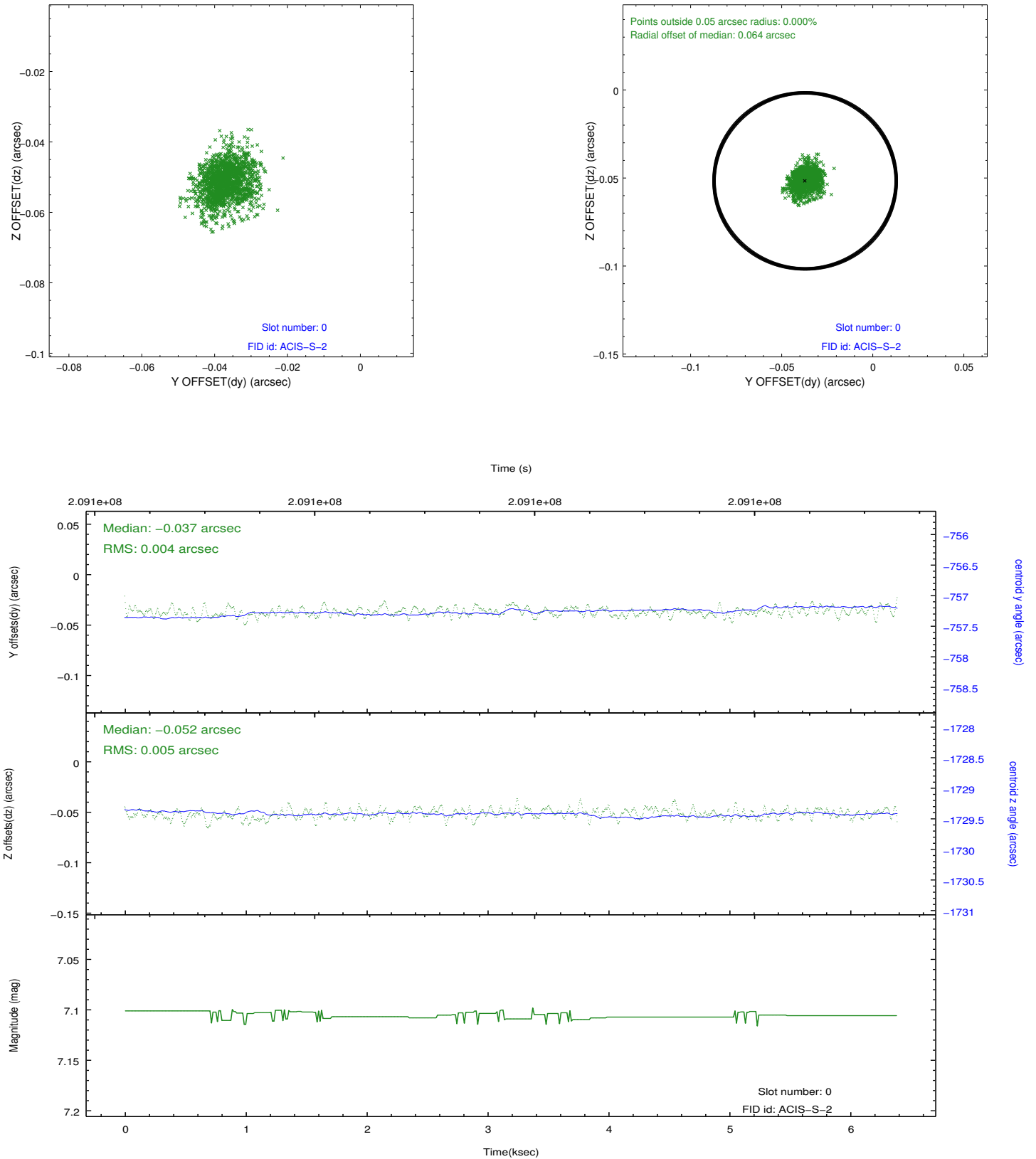


## 2.4.5 Slot 7

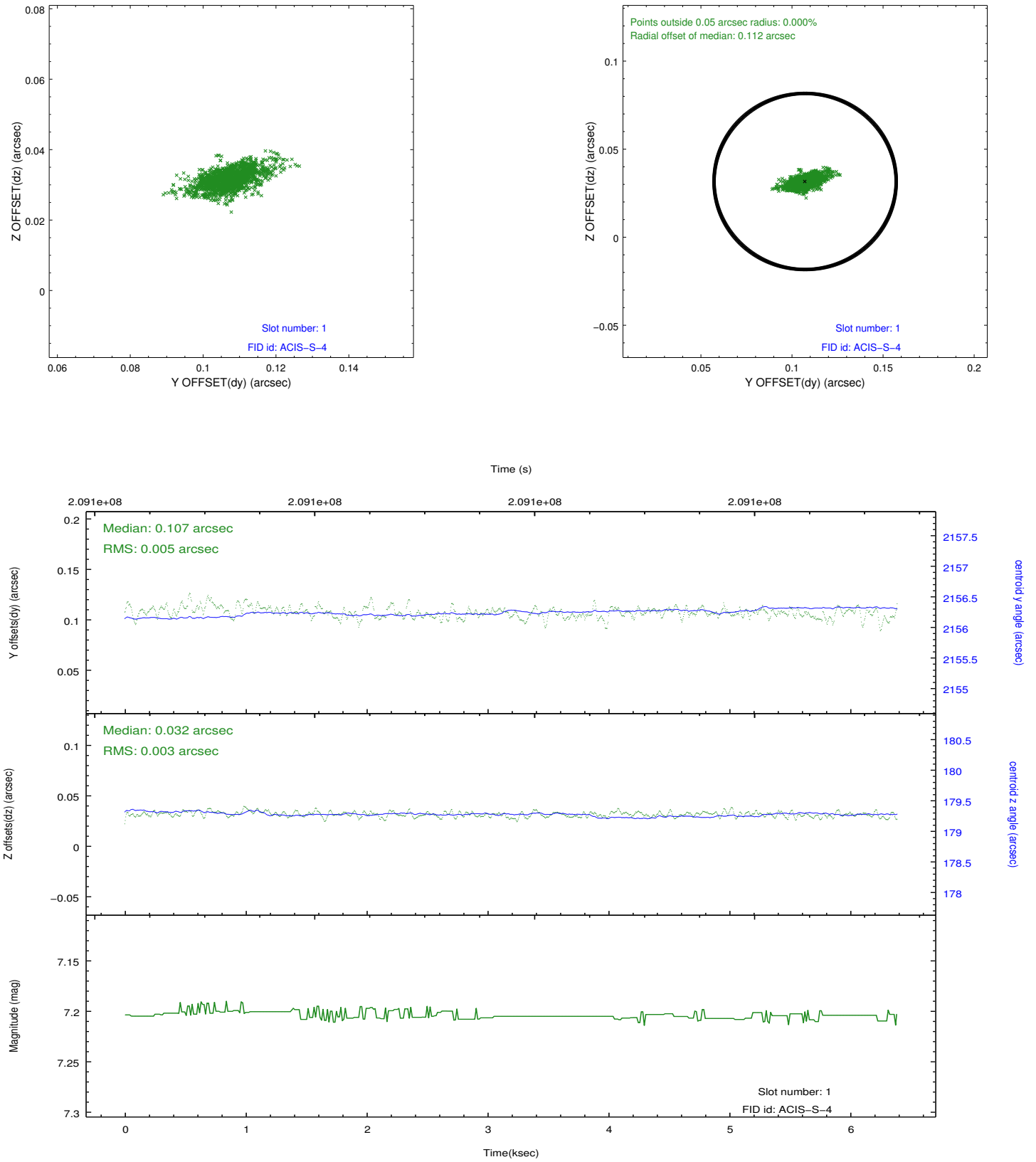


## 2.5 FID Slots

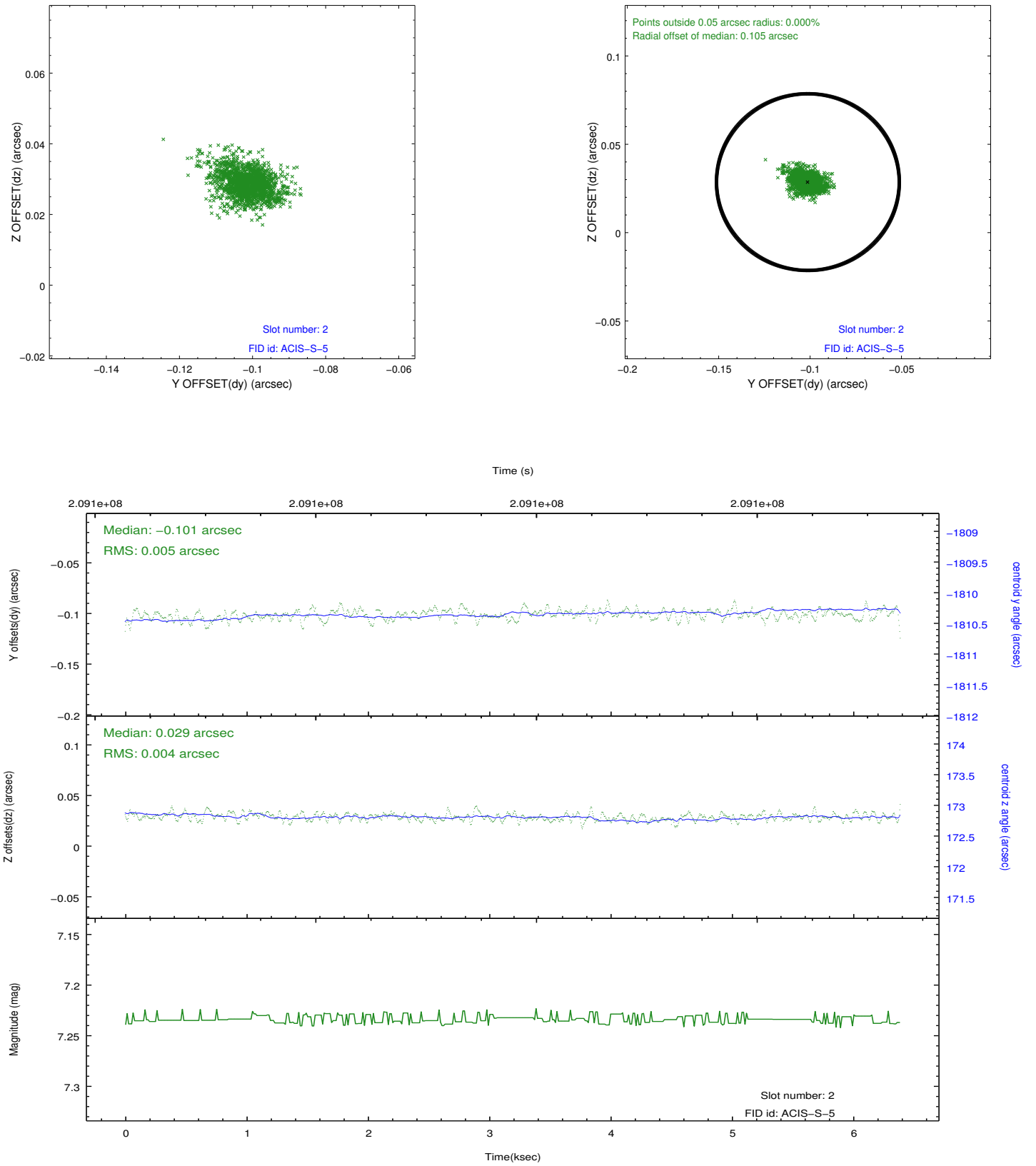
### 2.5.1 Slot 0



## 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)	2012.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.958

### A.2 Comments