

V&V Reference Report

L2 ASCDS Version : 7.6.11.4

Observation 897 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Feb 6 2008

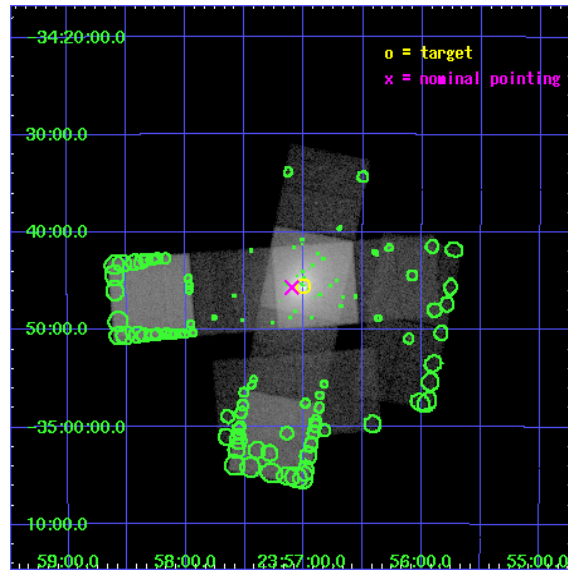
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1 Front

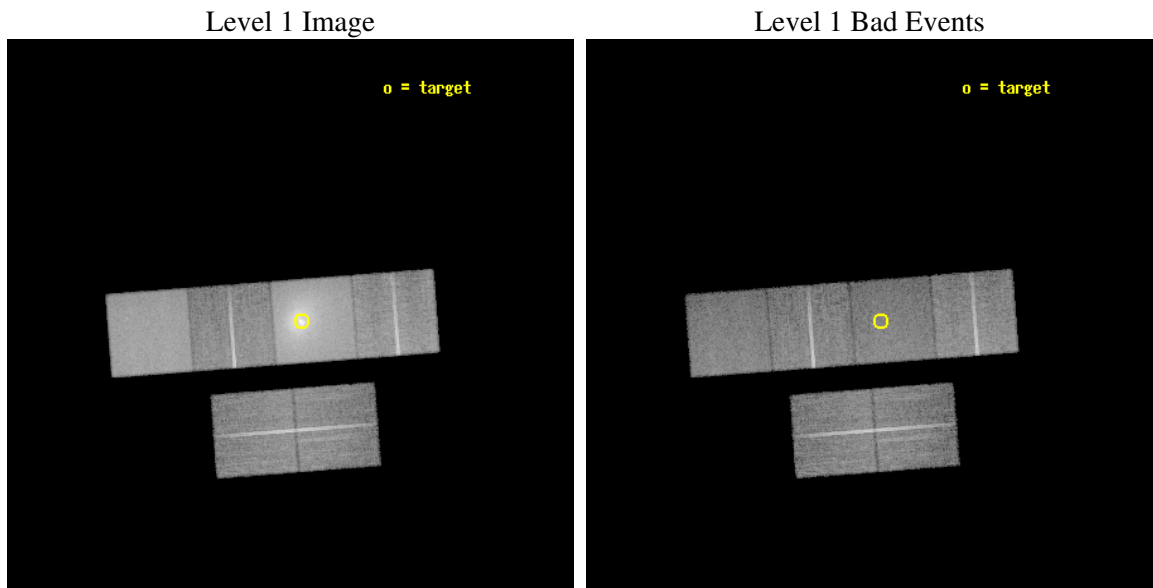
seq_num	800073
obs_id	897
title	RADIO-GALAXY/CLUSTER INTERACTION: ACIS OBSERVATIONS OF A4059
observer	Prof Christopher Reynolds
object	ABELL 4059
dtcycle	0
cycle	P
ra_targ	359.25
dec_targ	-34.758333
ra_nom	359.27520137372
dec_nom	-34.761758233974
roll_nom	355.60025842831
revision	4
ontime	41187.200038359
livetime	40665.662911518
ontime2	41187.200038359
ontime3	41187.200038359
ontime5	41187.200038359
ontime6	41187.200038359
ontime7	41187.200038359
ontime8	41183.959078118
l2events	734651



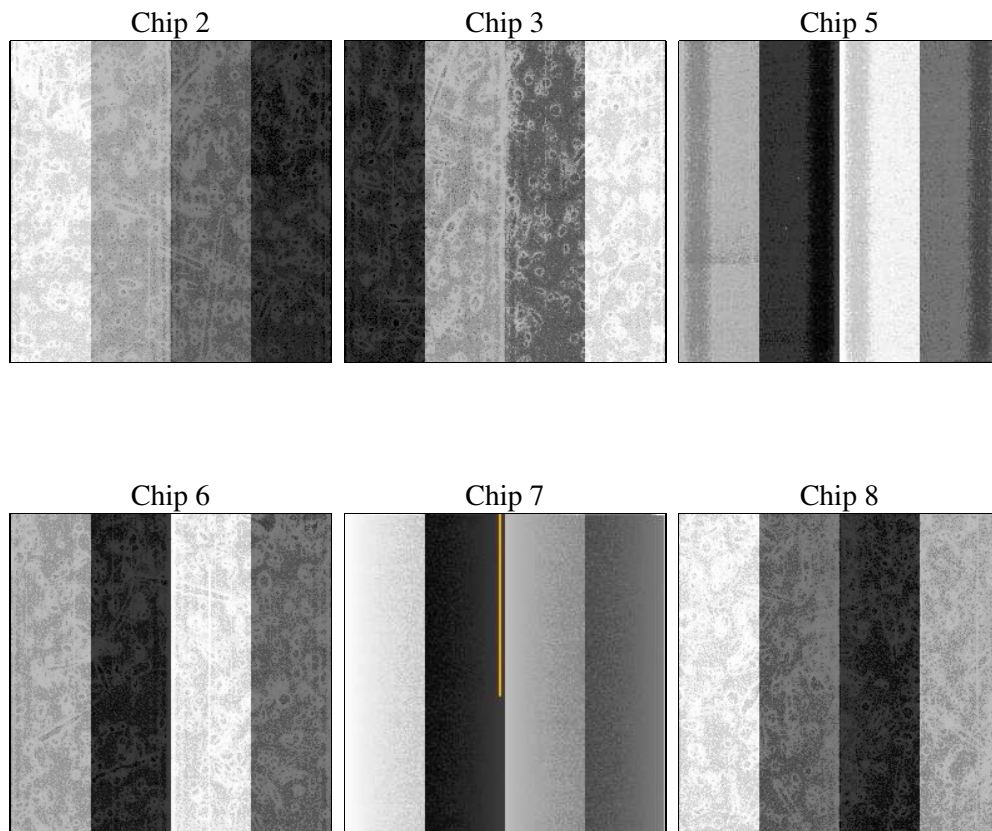
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-29T20:48:14
revision	2

sched_exp_time	22832.239000
ontime	22588.800021037
ontime2	22588.800021037
ontime3	22588.800021037
ontime5	22588.800021037
ontime6	22588.800021037
ontime7	22588.800021037
ontime8	22585.559060797
l1events	1180574

2.1.4 Events

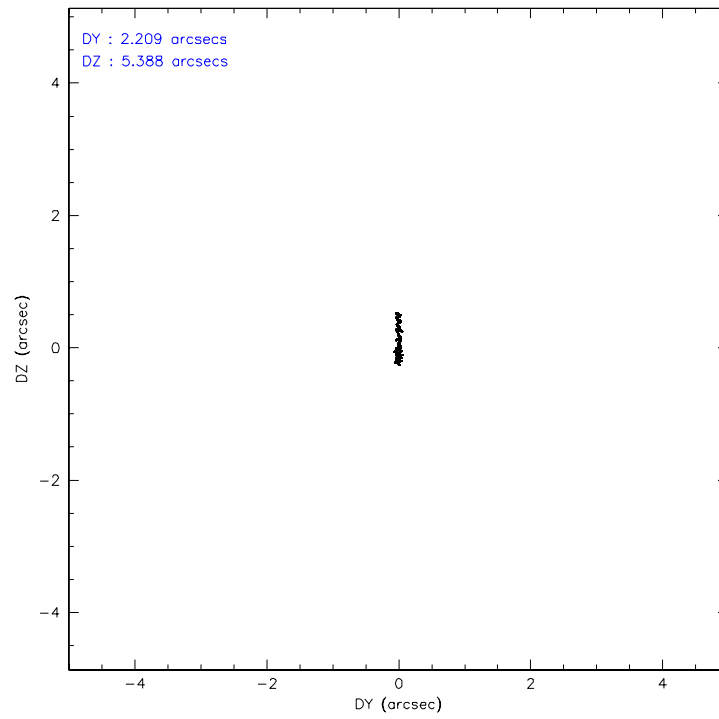
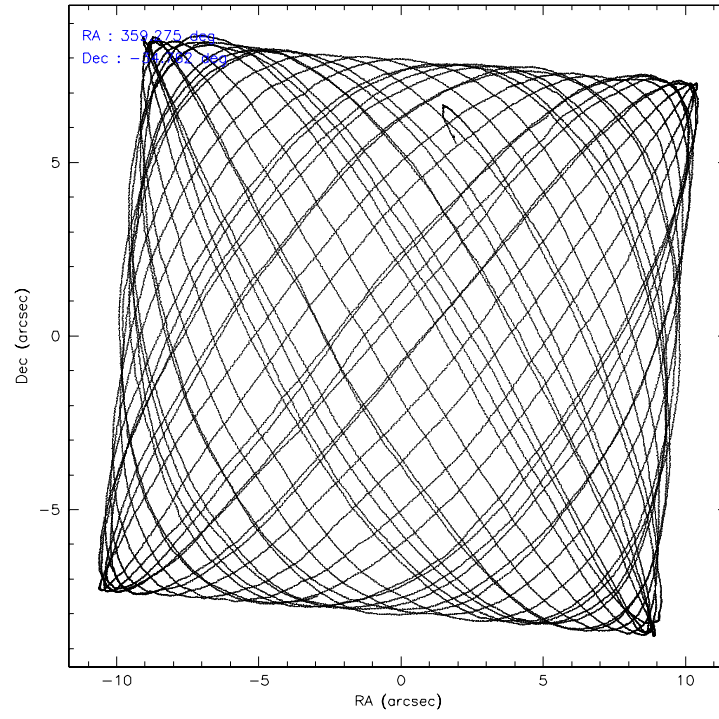
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	142127	134368	226936	146319	353619	177205
rejected events	125336	117705	101683	120640	100573	140314
rejected %	88%	87%	44%	82%	28%	79%

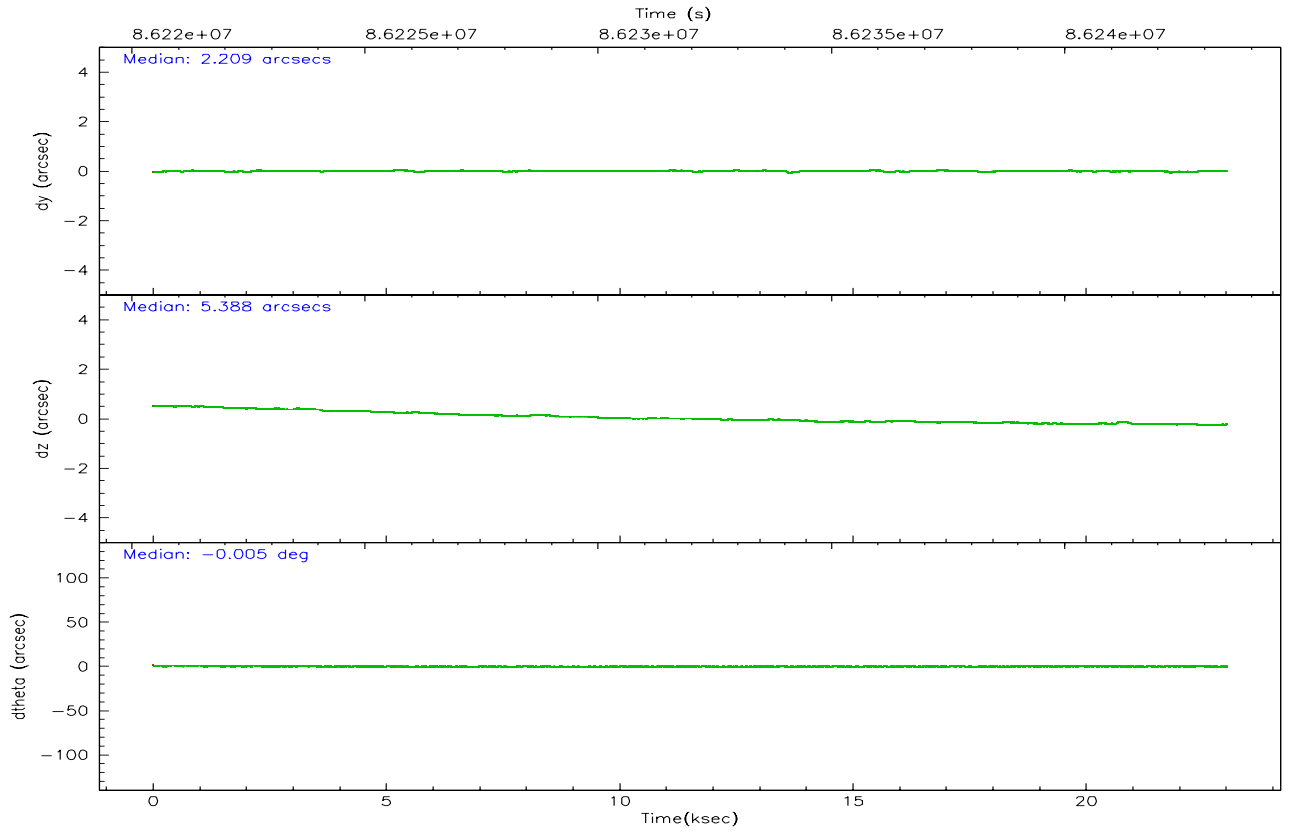
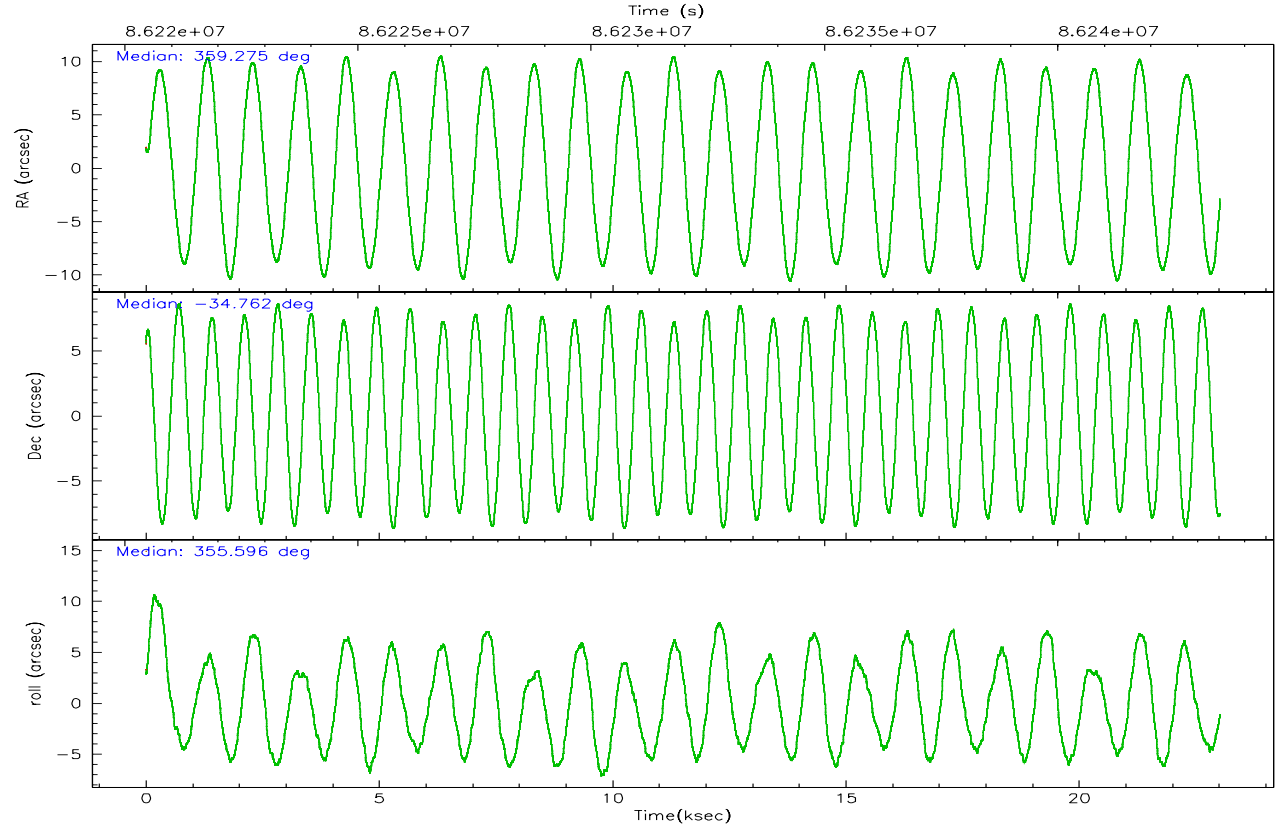
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7729	7980	15675	15040	59852	13909
	5%	5%	6%	10%	16%	7%
grade 1 events	71	70	178	84	204	123
	0%	0%	0%	0%	0%	0%
grade 2 events	3302	3042	35522	3848	57437	7595
	2%	2%	15%	2%	16%	4%
grade 3 events	1486	1510	7337	1840	25938	3466
	1%	1%	3%	1%	7%	1%
grade 4 events	1515	1508	7021	1804	25486	3126
	1%	1%	3%	1%	7%	1%
grade 5 events	4603	4934	14934	5526	17617	7005
	3%	3%	6%	3%	4%	3%
grade 6 events	2759	2626	59709	3149	84364	8797
	1%	1%	26%	2%	23%	4%
grade 7 events	120662	112698	86560	115028	82721	133184
	84%	83%	38%	78%	23%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	359.245238	359.2752013737248	Subarray requested	NONE	NONE
Pointing Dec	-34.773730	-34.76175823397426	Alternating exposures requested	N	N
Pointing Roll	355.426543	355.6002584283108	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	86220645.184000	86219663.504252			
Observation start date	2000-09-24T22:09:41	2000-09-24T21:54:23			
Observation end time	86243478.184000	86244250.180178			
Observation end date	2000-09-25T04:30:14	2000-09-25T04:44:10			
Read mode	TIMED	TIMED			

2.3 Aspect



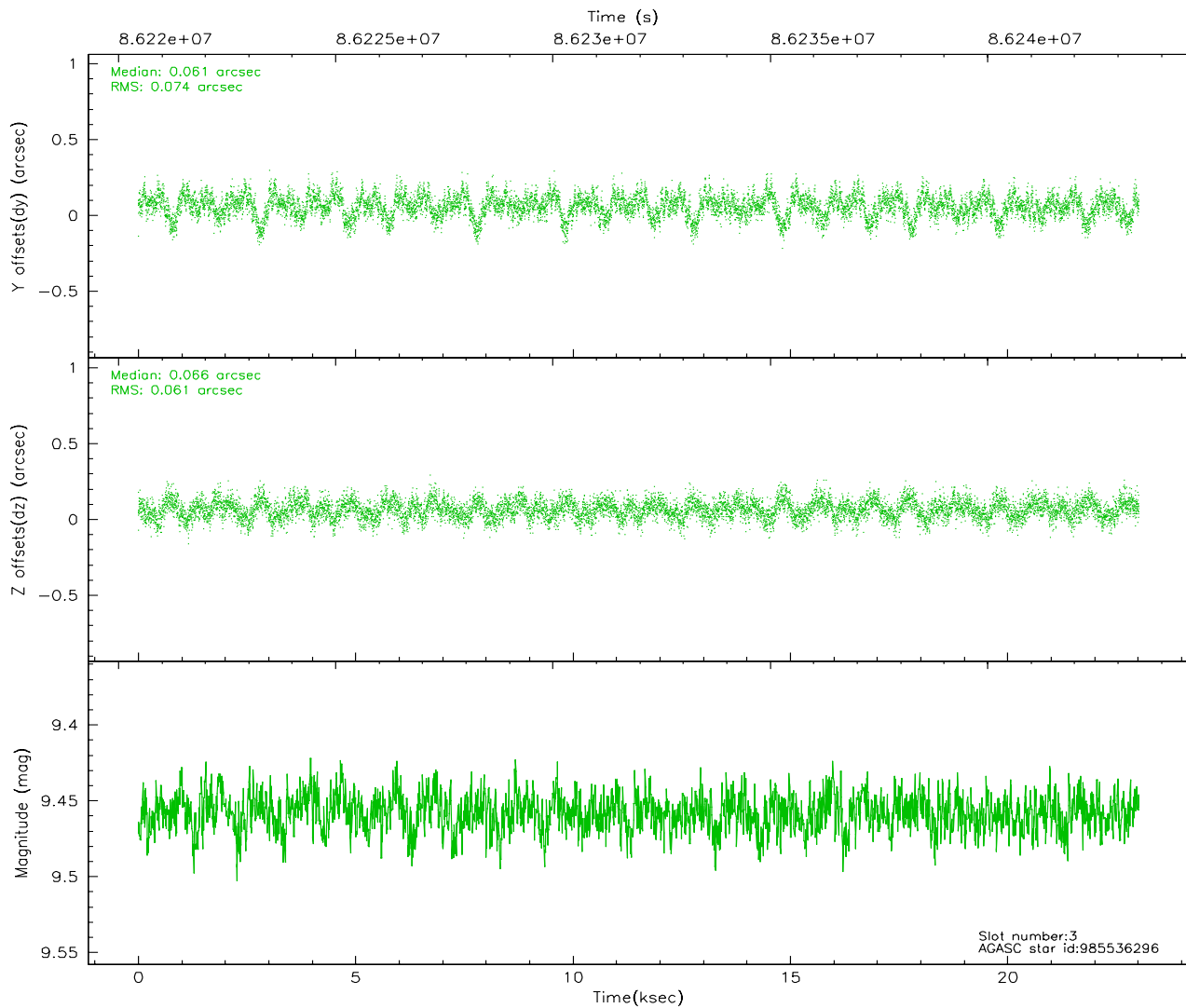
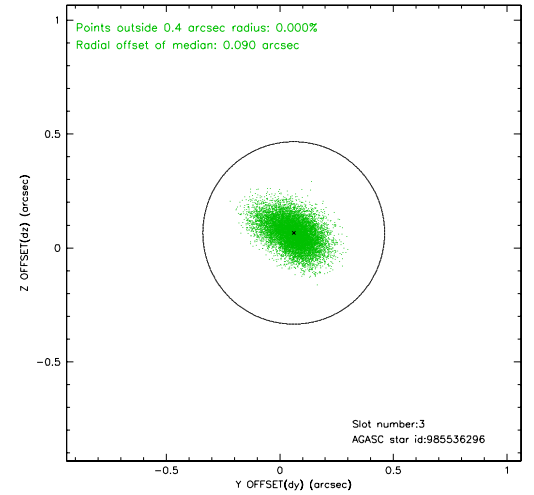
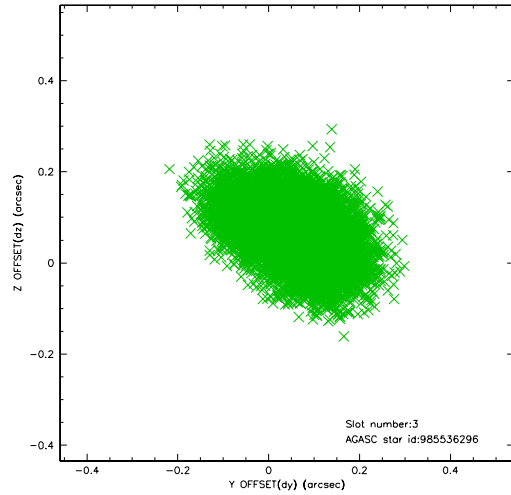


Slot Statistics

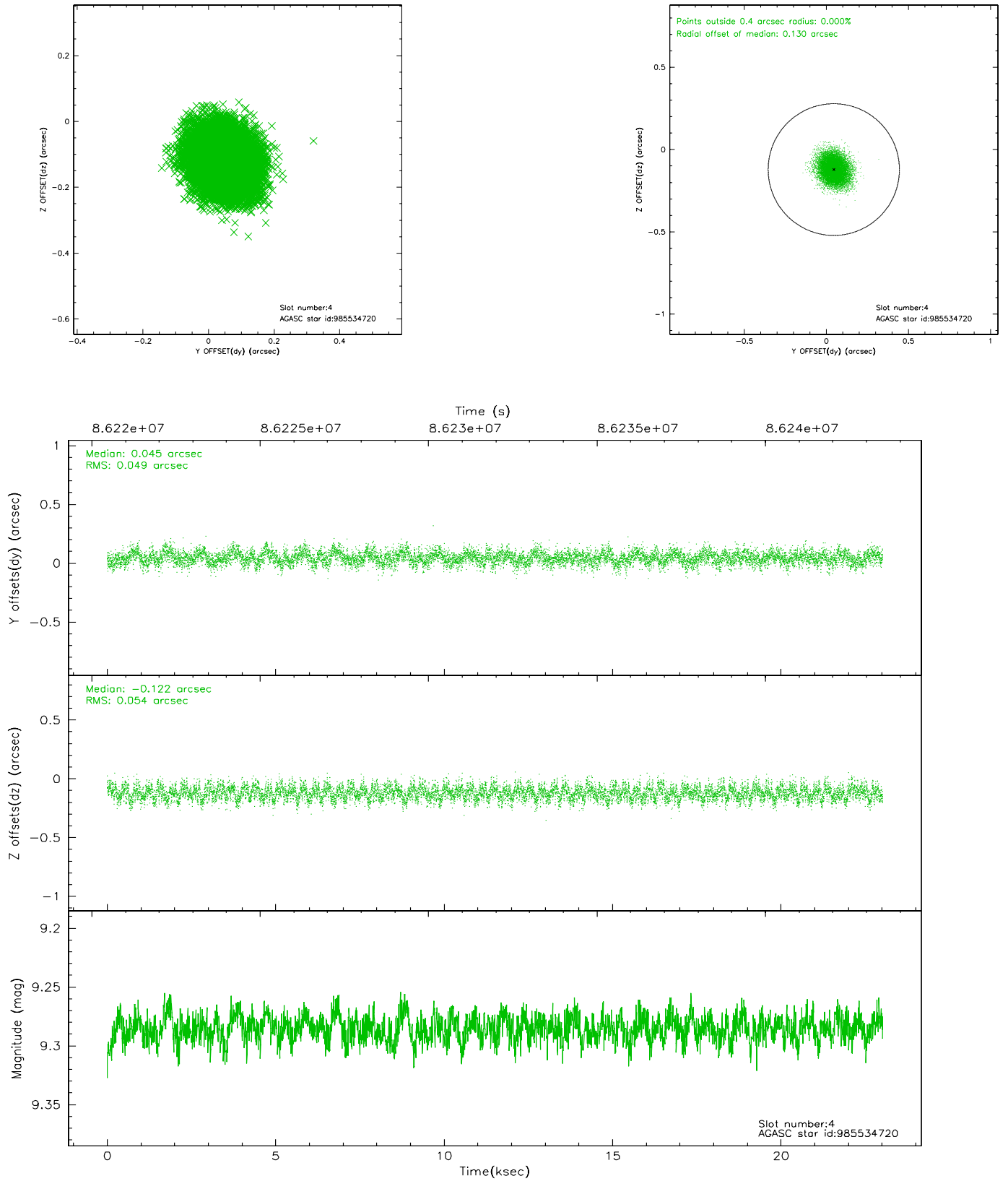
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	5616	-0.033	0.019	0.007	0.011	0.000000	0.000000	-754.83	-1726.56
1	FID	ACIS-S-4	7.21	5615	-0.044	0.011	0.005	0.009	0.000000	0.000000	2158.34	181.81
2	FID	ACIS-S-5	7.24	5615	0.045	-0.021	0.007	0.011	0.000000	0.000000	-1807.44	175.56
3	GUIDE	985536296	9.46	11224	0.061	0.066	0.101	0.171	358.653610	-34.417416	-1853.58	1133.79
4	GUIDE	985534720	9.29	11227	0.045	-0.122	0.078	0.126	358.560006	-34.718570	-2036.84	29.64
5	GUIDE	985533504	8.20	11232	-0.064	-0.044	0.062	0.096	359.621834	-34.285981	976.15	1837.97
6	GUIDE	985538688	8.98	11226	0.059	0.035	0.078	0.123	359.925547	-34.998115	2064.76	-651.31
7	GUIDE	985926576	9.49	11224	-0.096	0.070	0.087	0.140	359.107966	-35.442581	-209.34	-2432.17

2.4 Star Slots

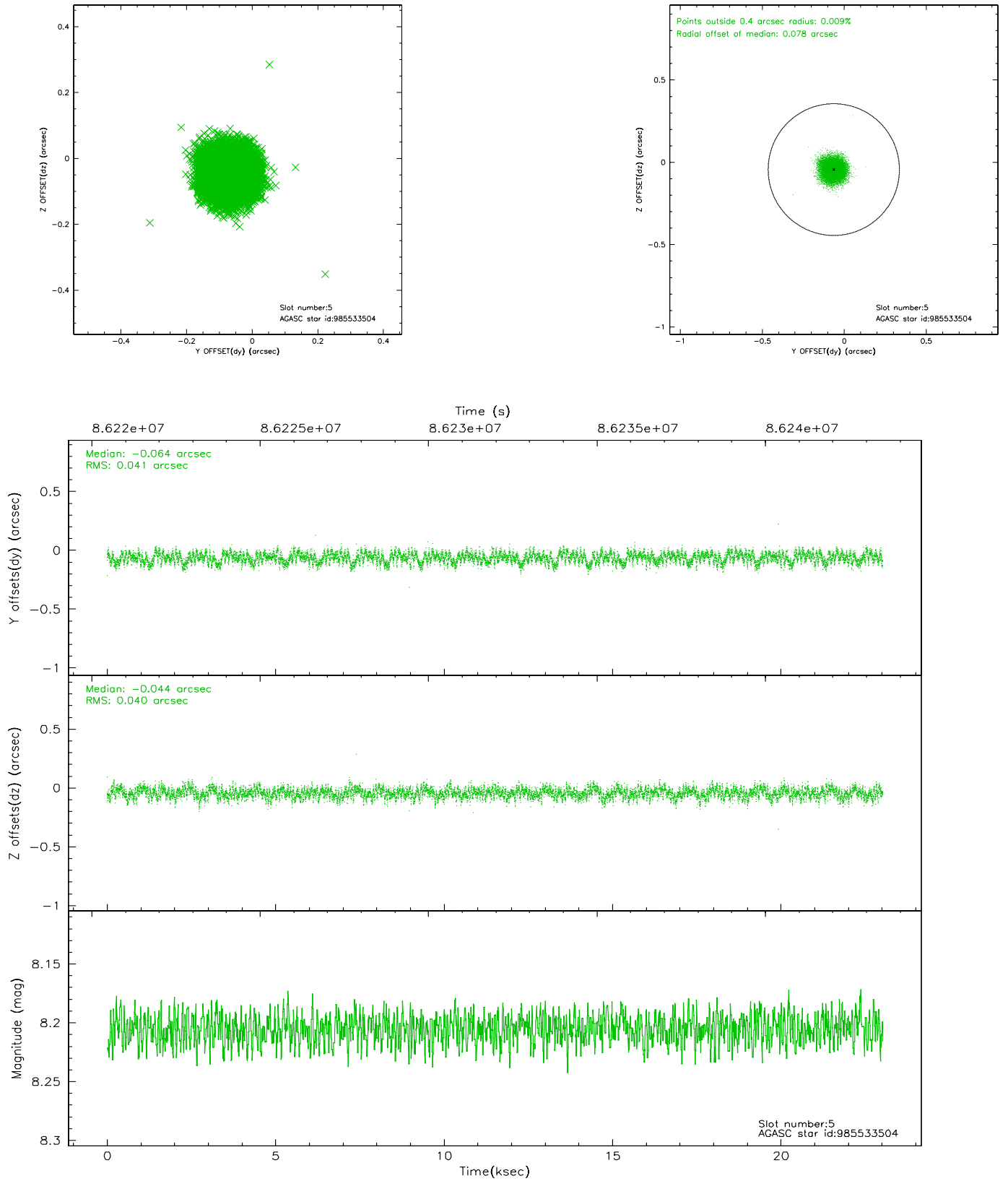
2.4.1 Slot 3



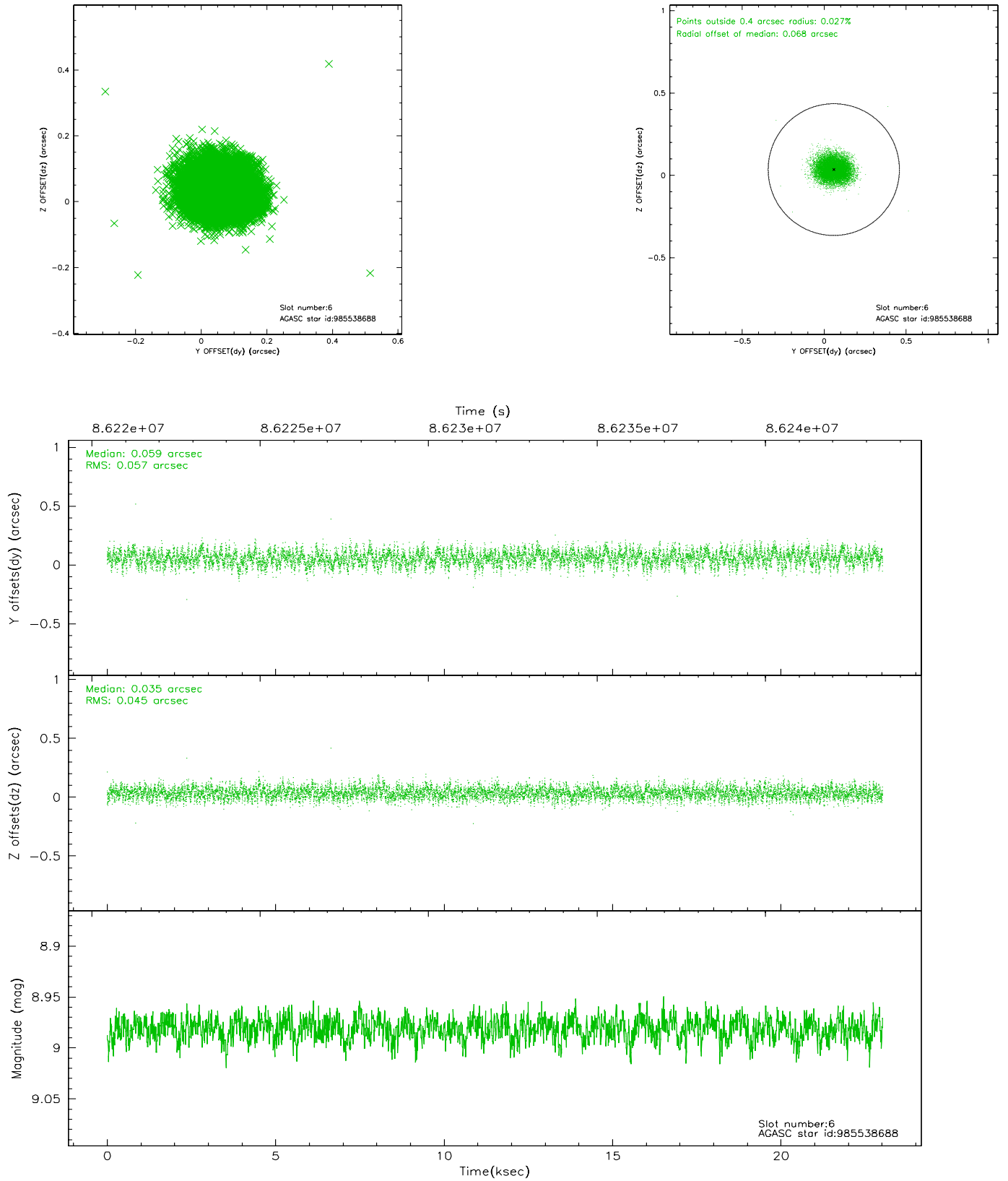
2.4.2 Slot 4



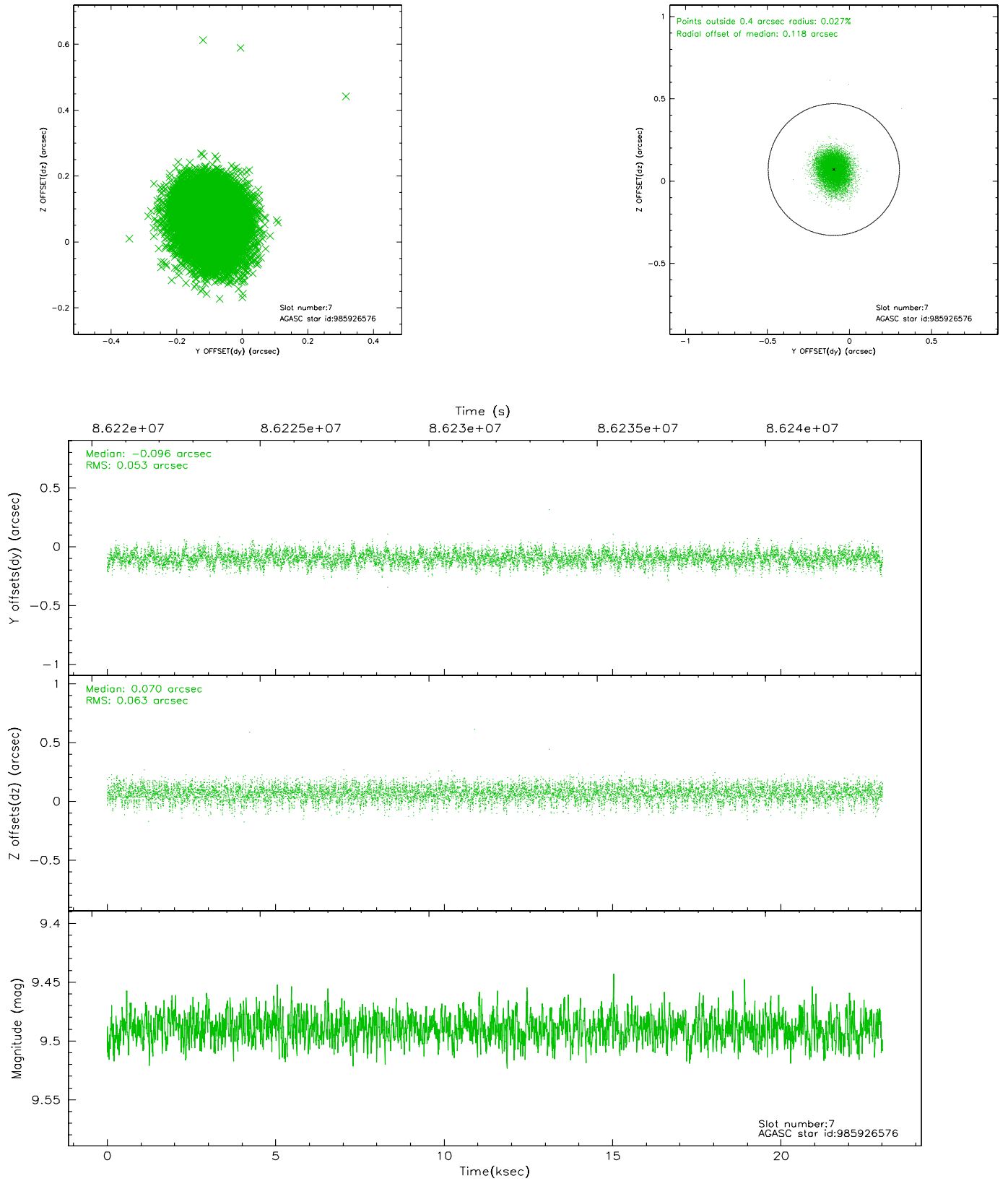
2.4.3 Slot 5



2.4.4 Slot 6

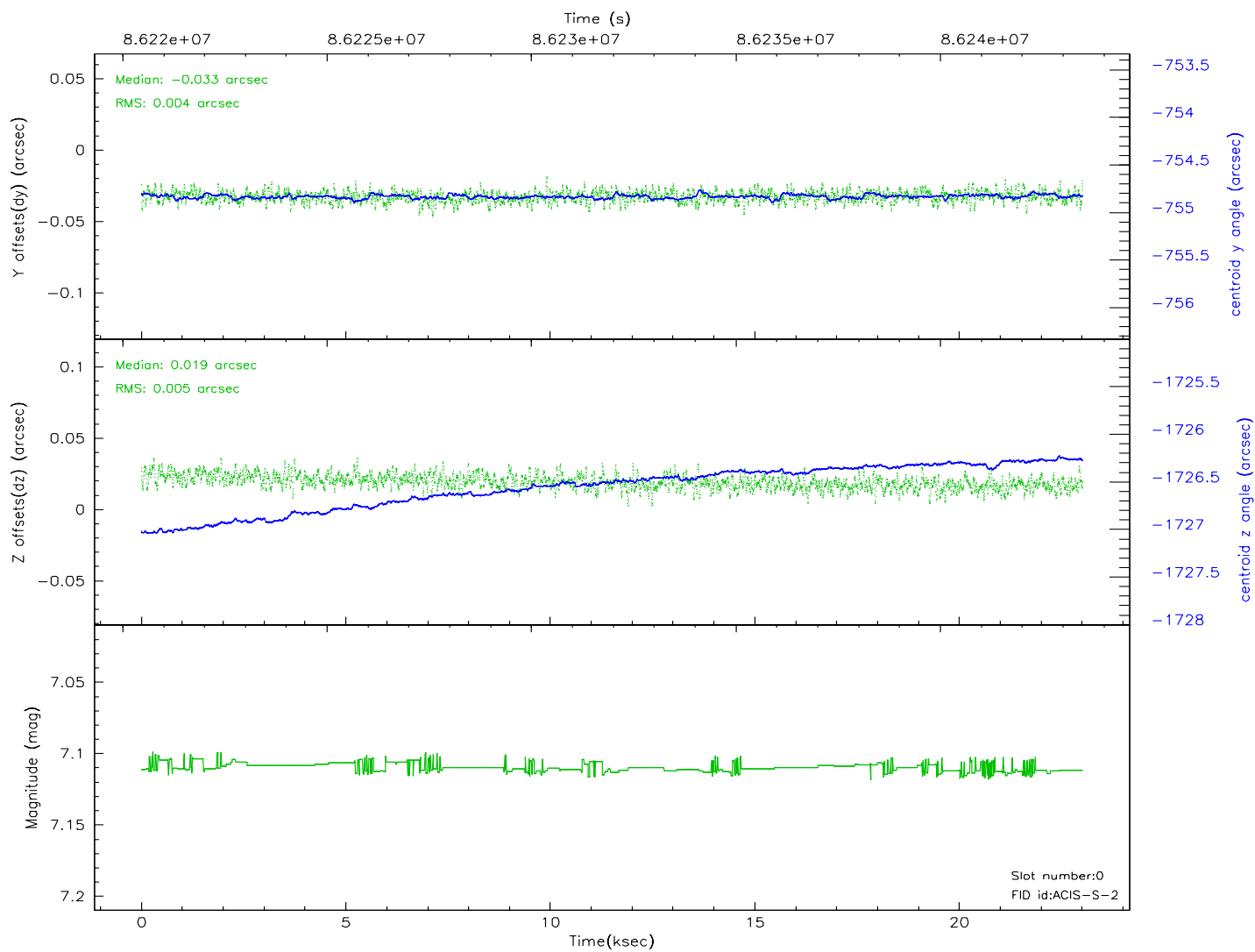
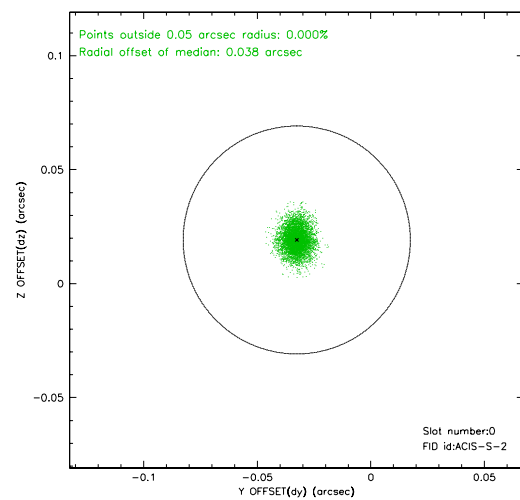
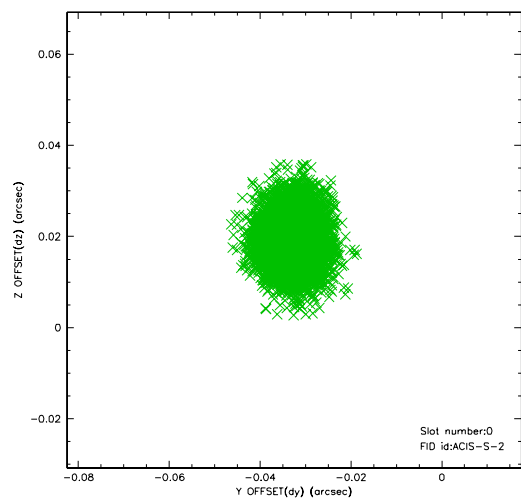


2.4.5 Slot 7

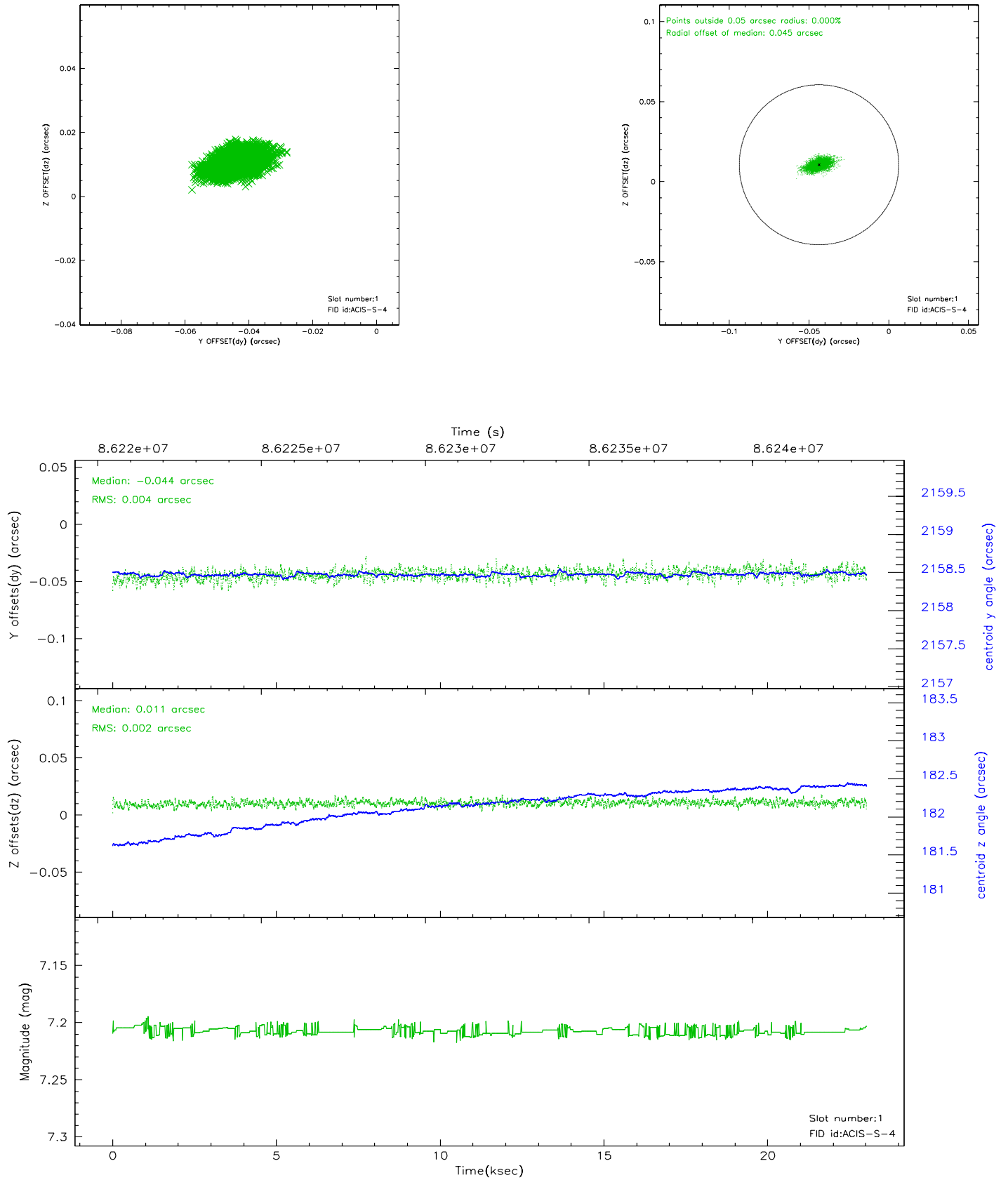


2.5 FID Slots

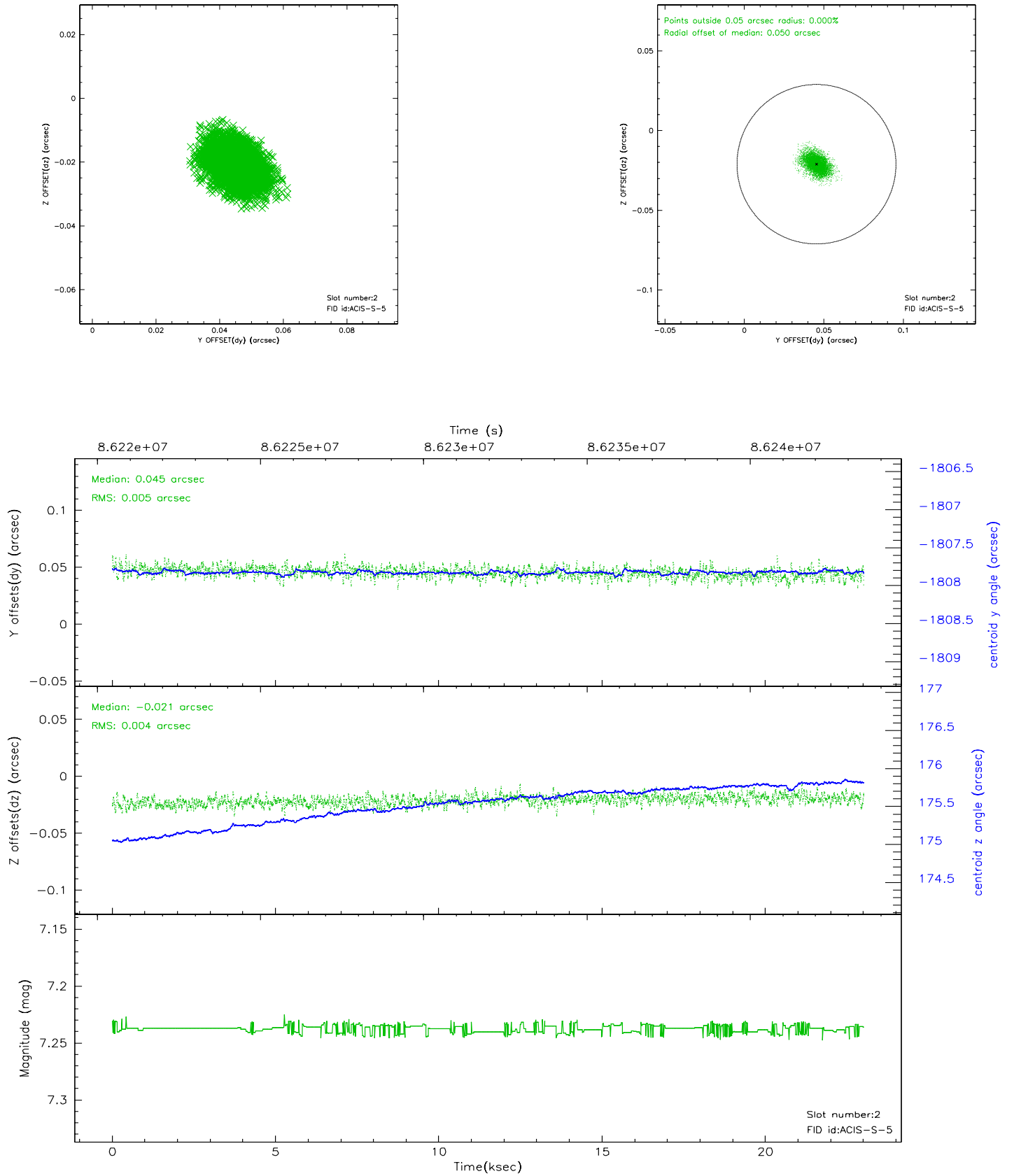
2.5.1 Slot 0



2.5.2 Slot 1



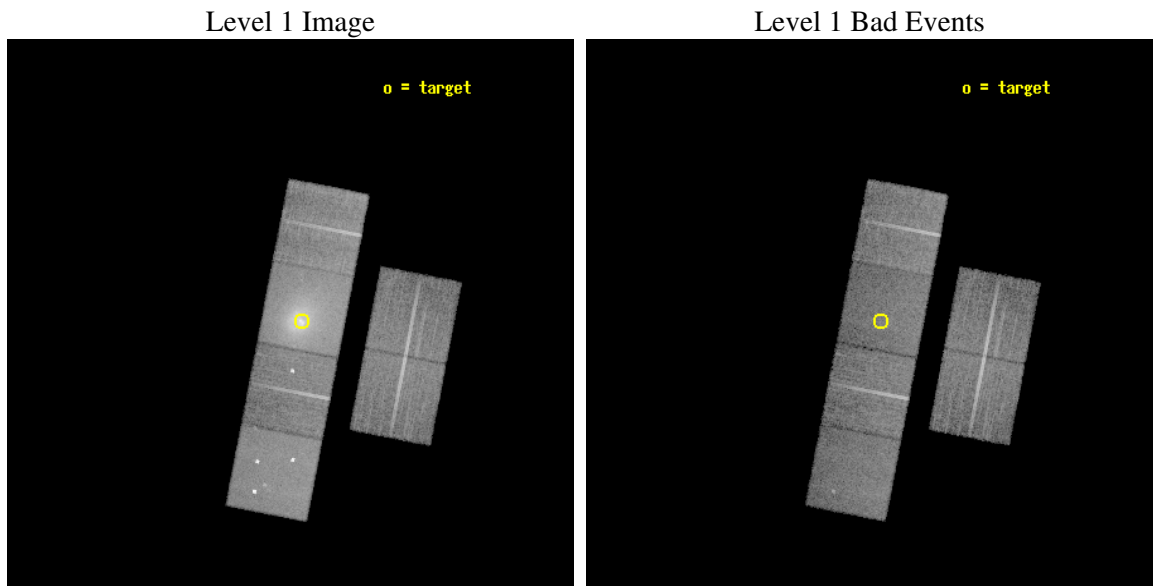
2.5.3 Slot 2



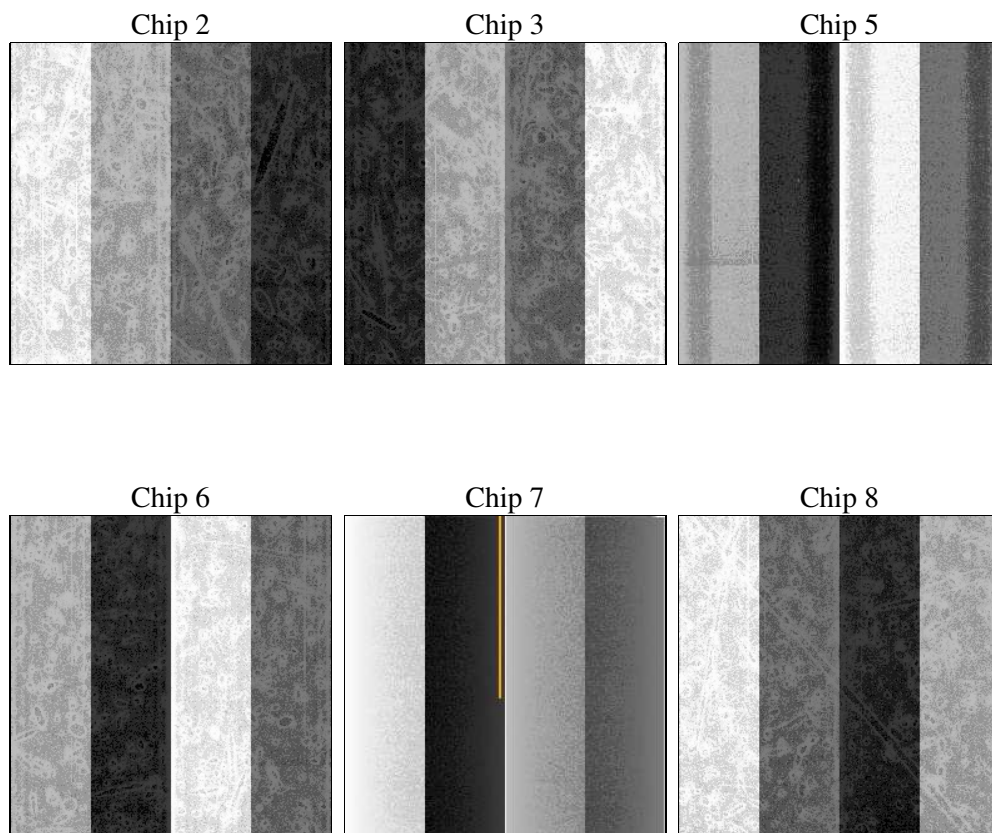
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1
ascdsver	7.6.11.4
caldsver	3.4.2
date	2008-02-06T20:21:13
revision	4

sched_exp_time	18491.305000
ontime	18598.400017321
ontime2	18598.400017321
ontime3	18598.400017321
ontime5	18598.400017321
ontime6	18598.400017321
ontime7	18598.400017321
ontime8	18598.400017321
l1events	929851

3.1.4 Events

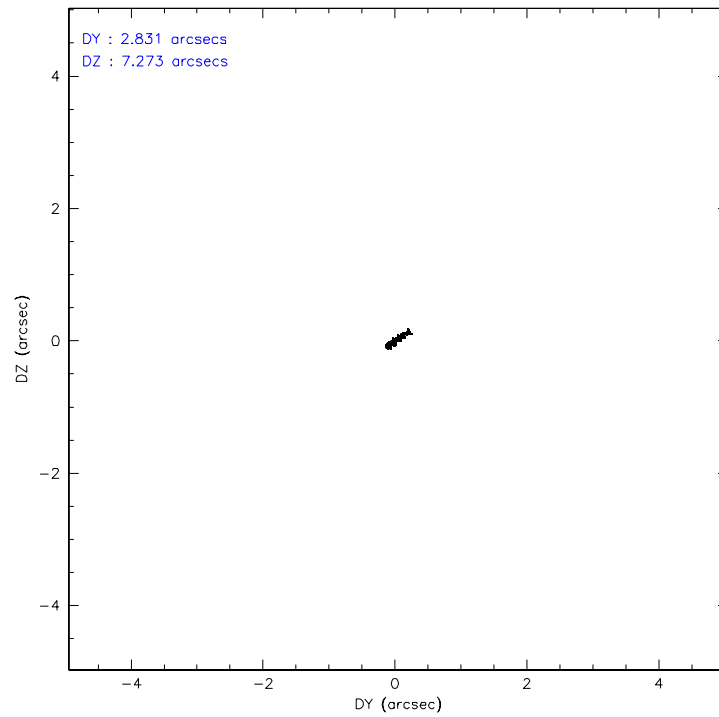
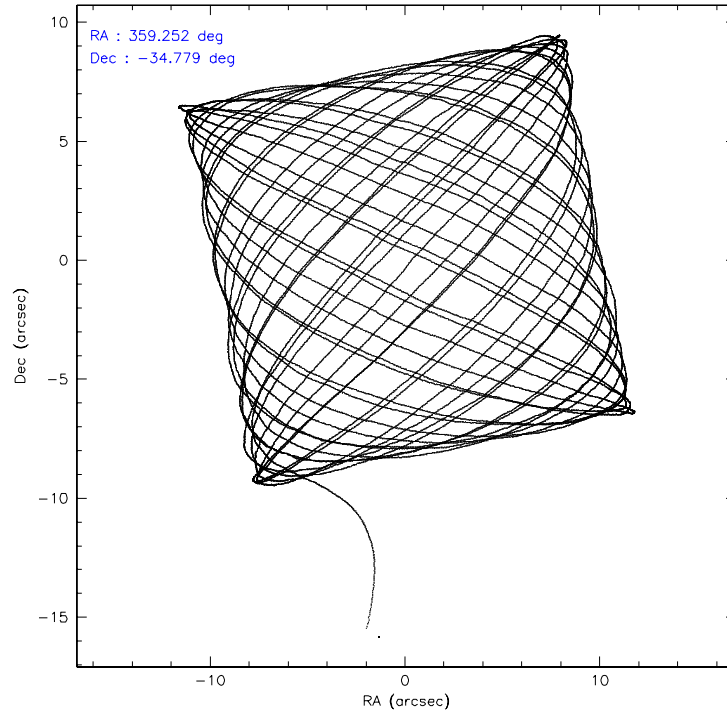
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	117359	112773	165871	126449	255874	151525
rejected events	104051	99454	87035	102539	88998	117997
rejected %	88%	88%	52%	81%	34%	77%

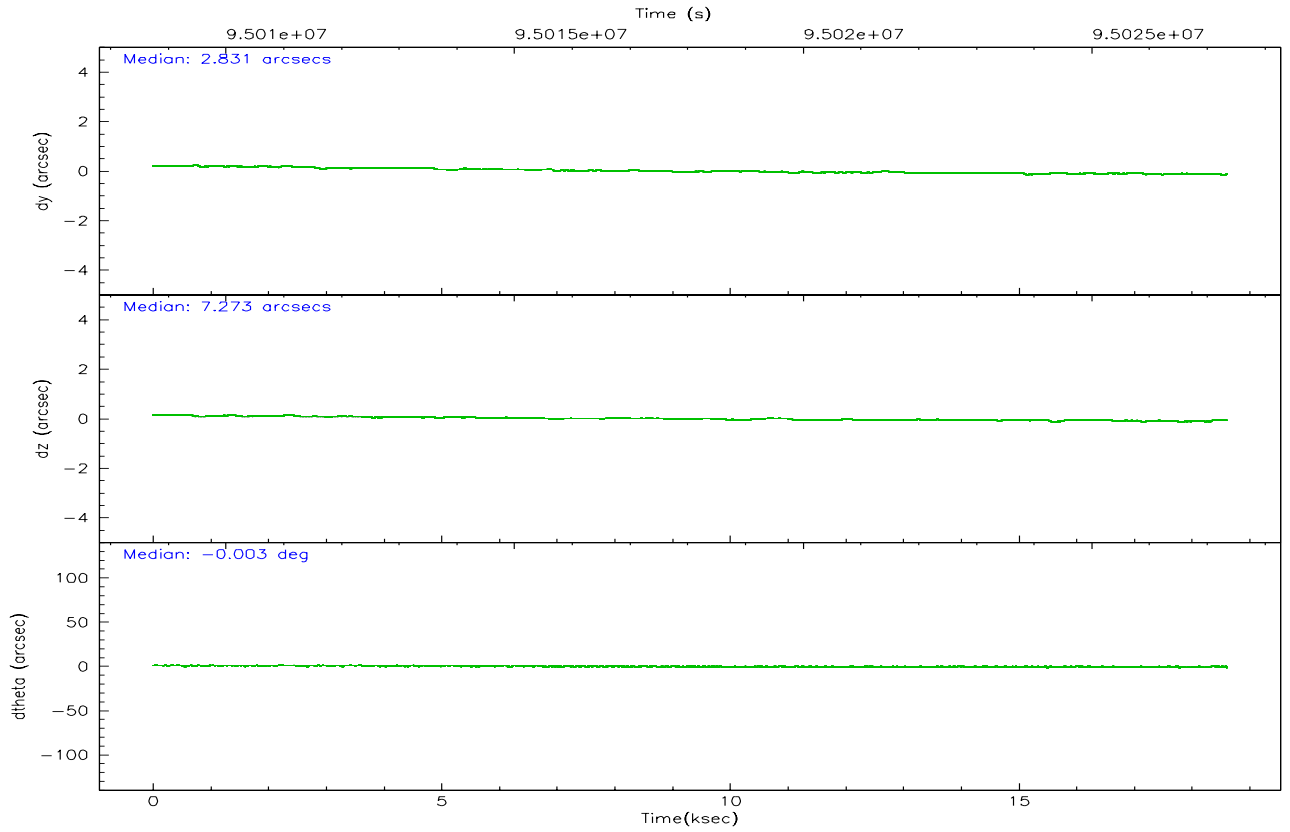
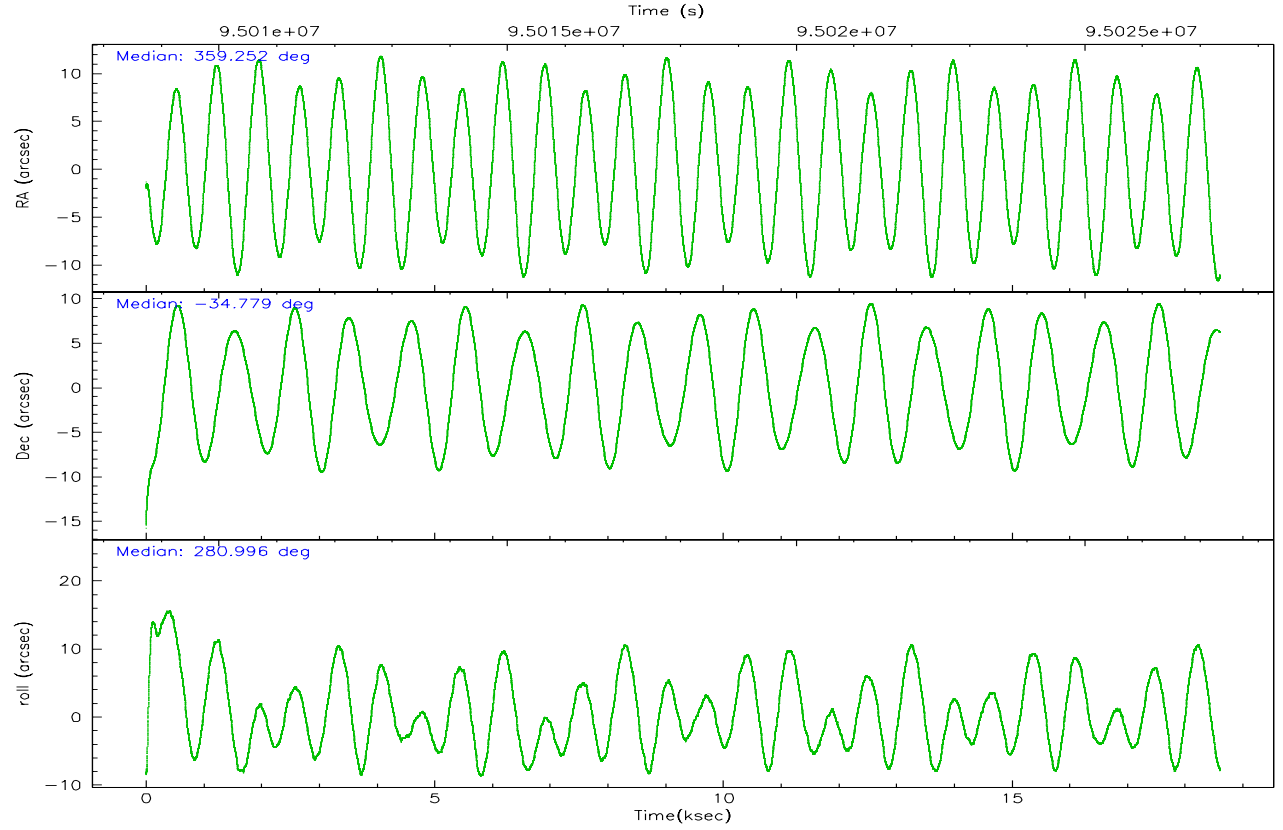
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6119	6256	14107	15328	42977	12985
	5%	5%	8%	12%	16%	8%
grade 1 events	65	56	499	95	159	91
	0%	0%	0%	0%	0%	0%
grade 2 events	2781	2564	22765	3391	40060	6738
	2%	2%	13%	2%	15%	4%
grade 3 events	1192	1245	3508	1552	18286	3529
	1%	1%	2%	1%	7%	2%
grade 4 events	1230	1231	3185	1513	18099	3275
	1%	1%	1%	1%	7%	2%
grade 5 events	3917	4264	12301	4884	14736	6019
	3%	3%	7%	3%	5%	3%
grade 6 events	2277	2276	37324	2627	50223	7565
	1%	2%	22%	2%	19%	4%
grade 7 events	99778	94881	72182	97059	71334	111323
	85%	84%	43%	76%	27%	73%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	359.230657	359.2526715489283	Subarray requested	NONE	NONE
Pointing Dec	-34.758657	-34.77913808149538	Alternating exposures requested	N	N
Pointing Roll	280.833588	281.0027483612608	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	95008850.184000	95007560.275774			
Observation start date	2001-01-04T15:19:46	2001-01-04T14:59:20			
Observation end time	95027341.184000	95027655.91404501			
Observation end date	2001-01-04T20:27:57	2001-01-04T20:34:15			
Read mode	TIMED	TIMED			

3.3 Aspect



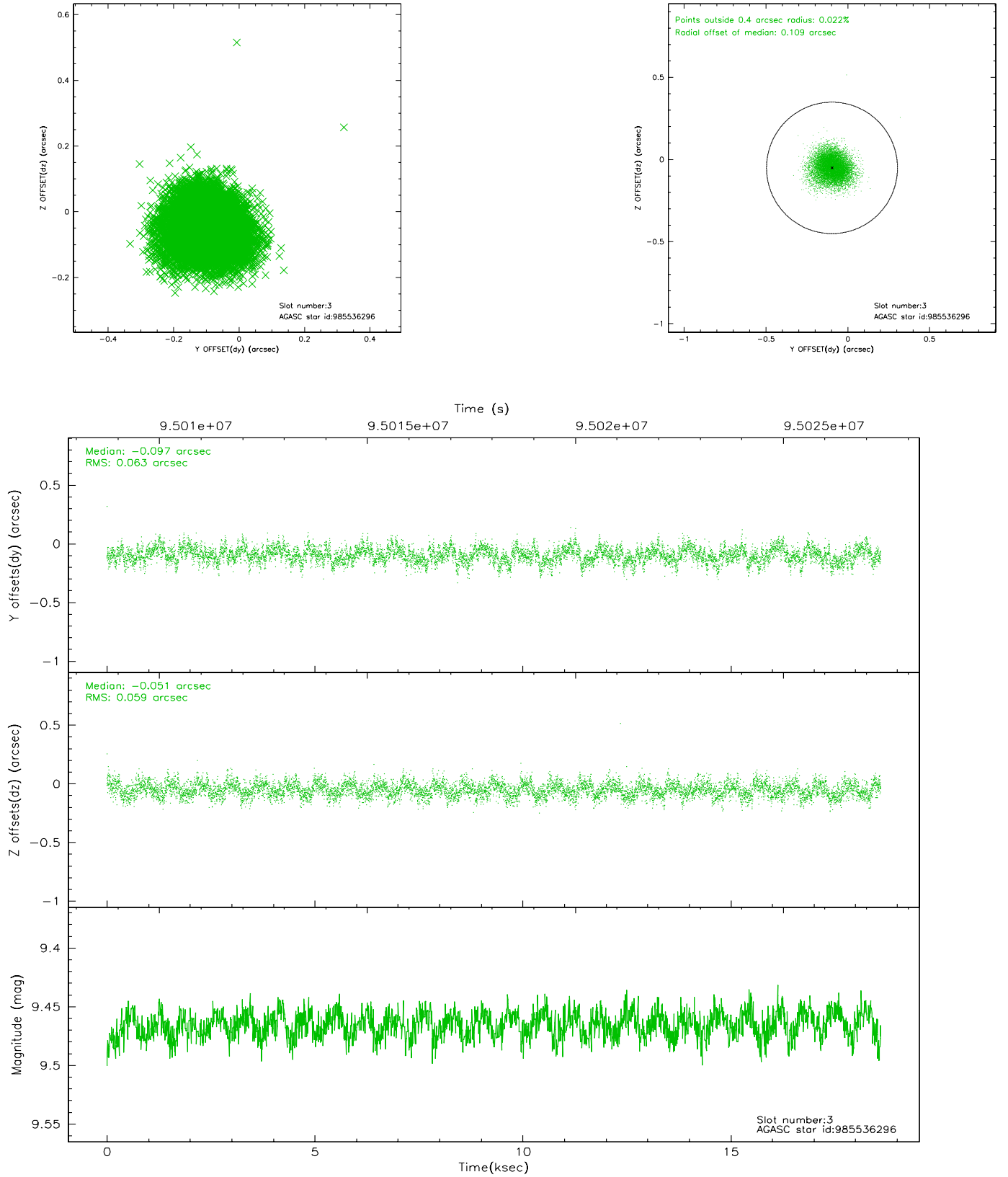


Slot Statistics

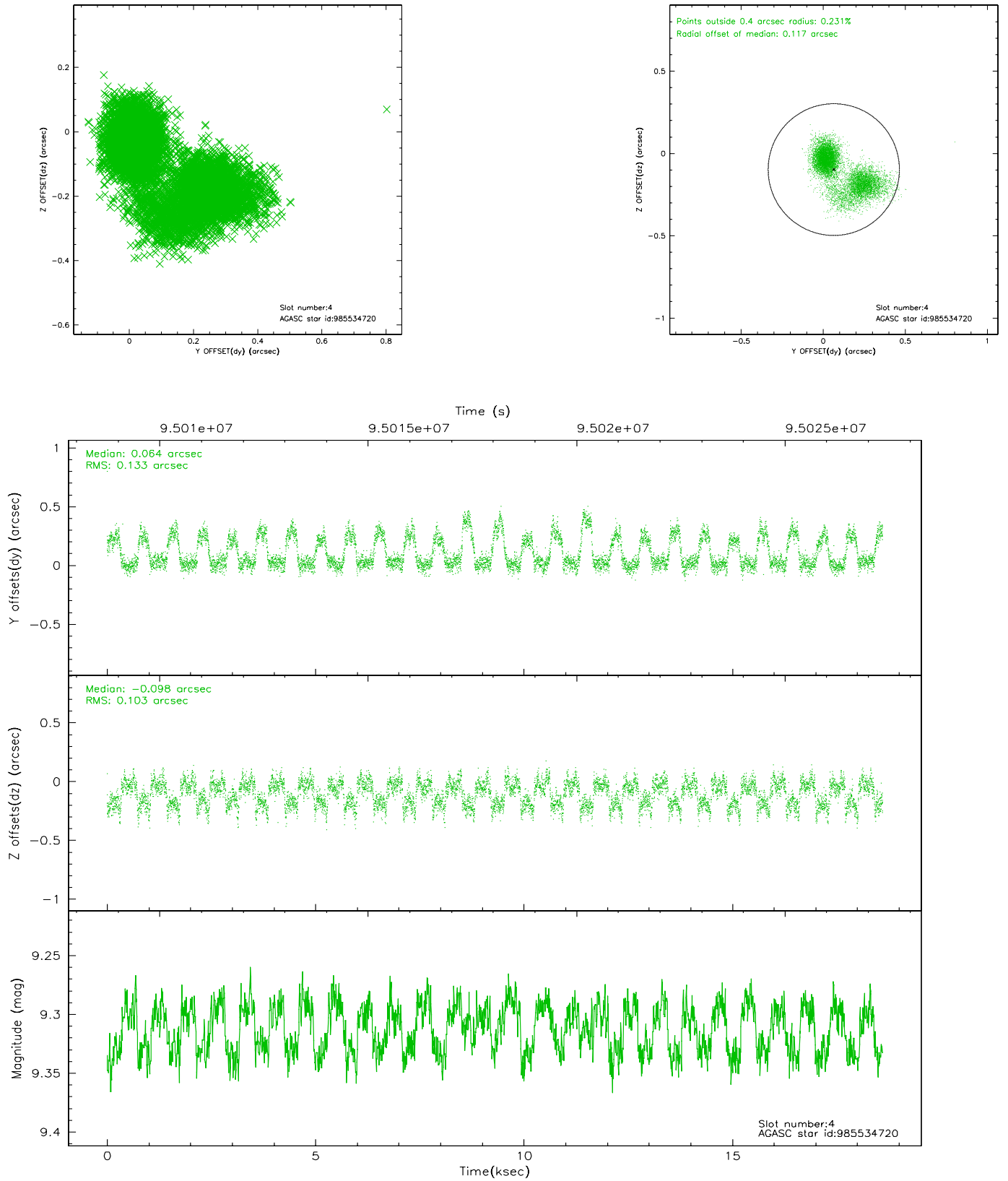
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	5616	-0.033	0.019	0.007	0.011	0.000000	0.000000	-754.83	-1726.56
1	FID	ACIS-S-4	7.21	5615	-0.044	0.011	0.005	0.009	0.000000	0.000000	2158.34	181.81
2	FID	ACIS-S-5	7.24	5615	0.045	-0.021	0.007	0.011	0.000000	0.000000	-1807.44	175.56
3	GUIDE	985536296	9.46	11224	0.061	0.066	0.101	0.171	358.653610	-34.417416	-1853.58	1133.79
4	GUIDE	985534720	9.29	11227	0.045	-0.122	0.078	0.126	358.560006	-34.718570	-2036.84	29.64
5	GUIDE	985533504	8.20	11232	-0.064	-0.044	0.062	0.096	359.621834	-34.285981	976.15	1837.97
6	GUIDE	985538688	8.98	11226	0.059	0.035	0.078	0.123	359.925547	-34.998115	2064.76	-651.31
7	GUIDE	985926576	9.49	11224	-0.096	0.070	0.087	0.140	359.107966	-35.442581	-209.34	-2432.17

3.4 Star Slots

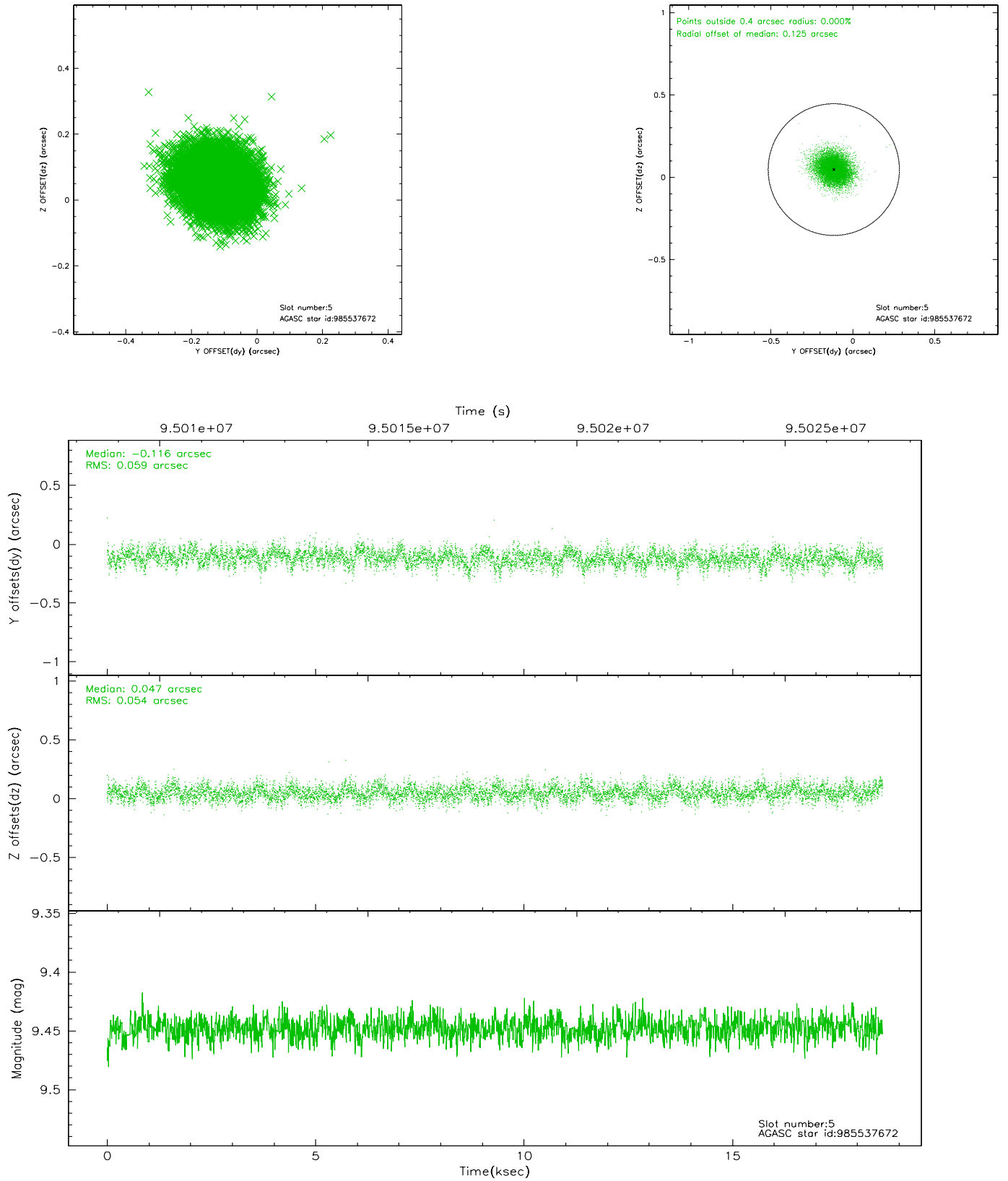
3.4.1 Slot 3



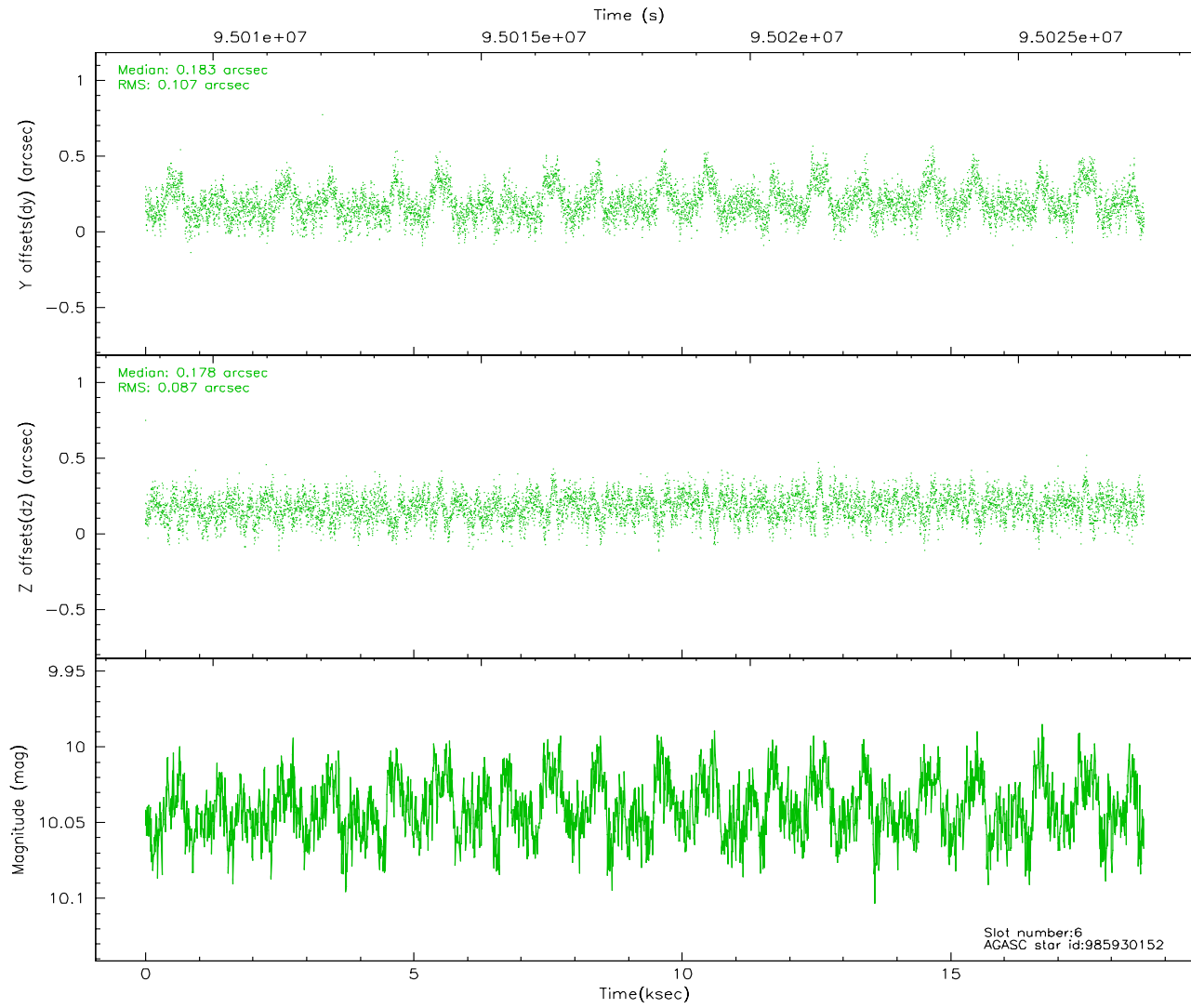
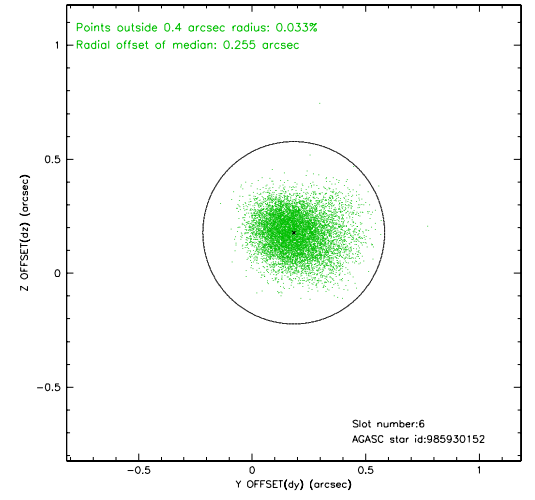
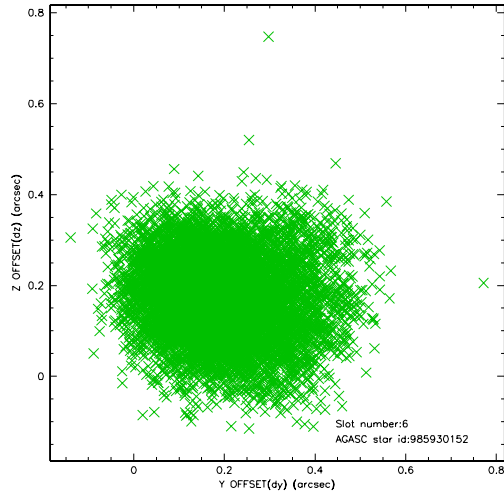
3.4.2 Slot 4



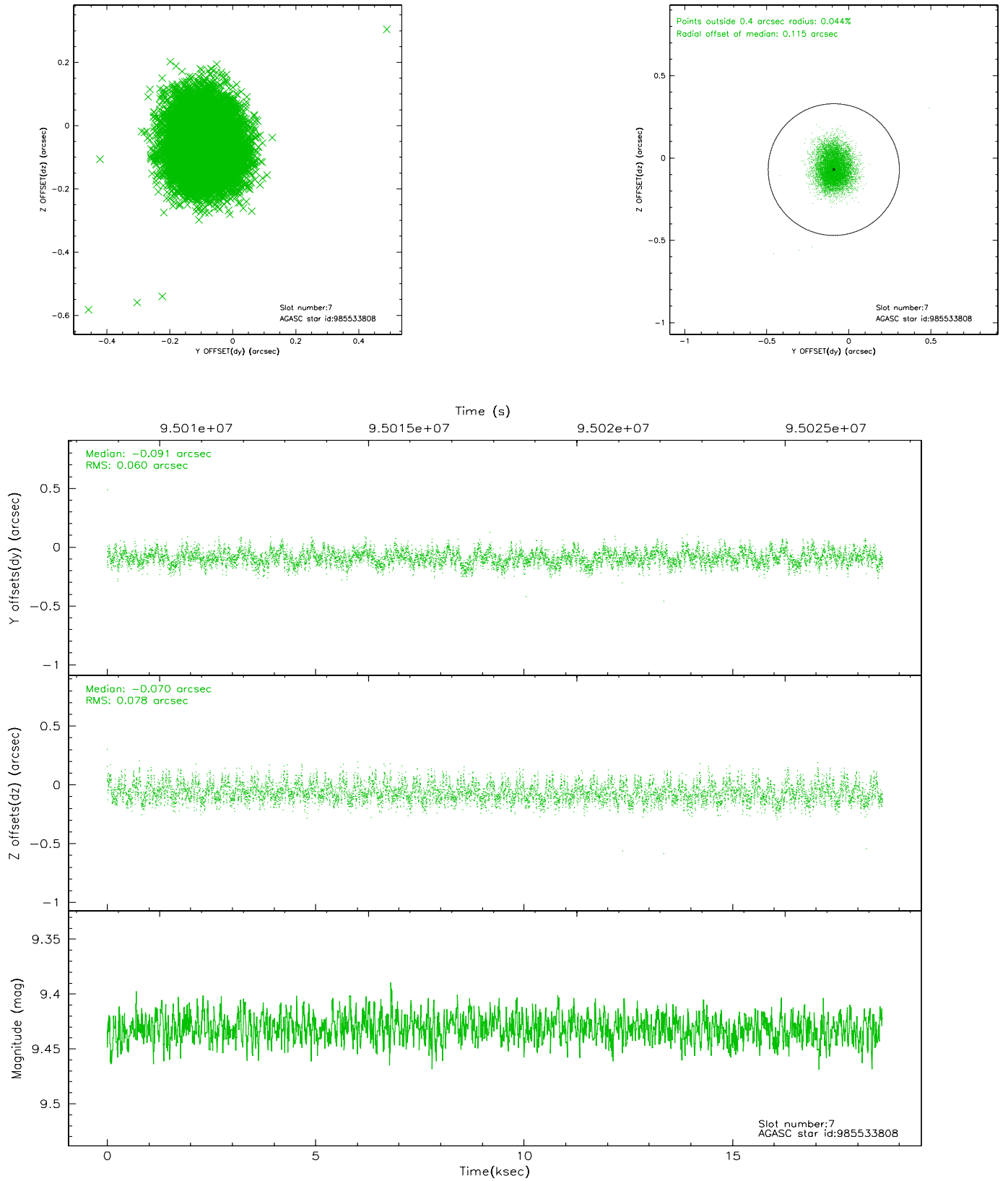
3.4.3 Slot 5



3.4.4 Slot 6

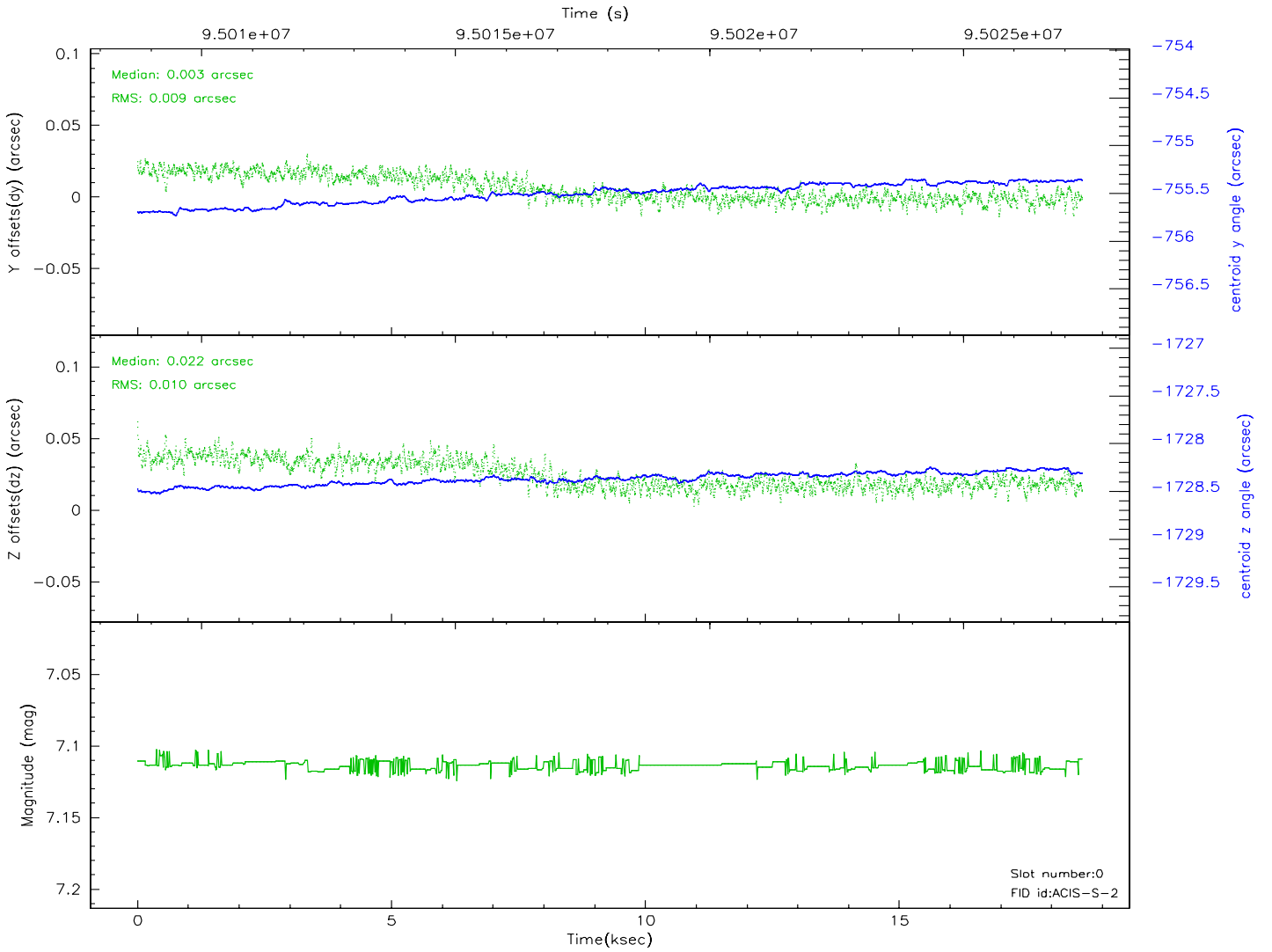
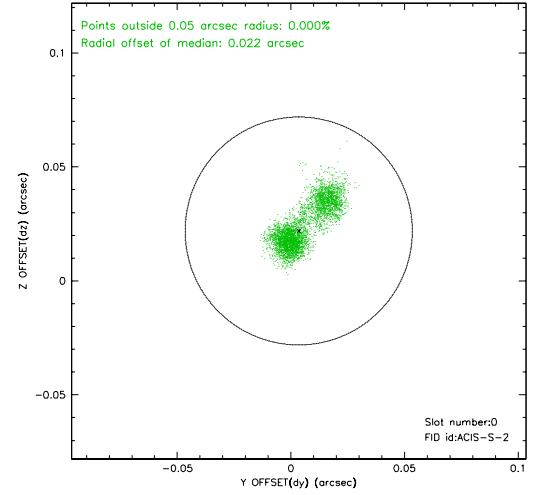
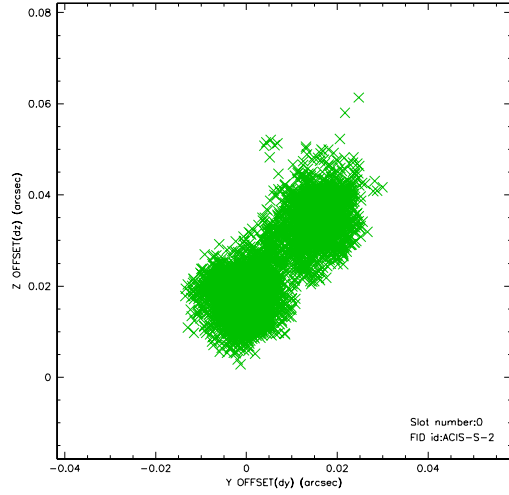


3.4.5 Slot 7

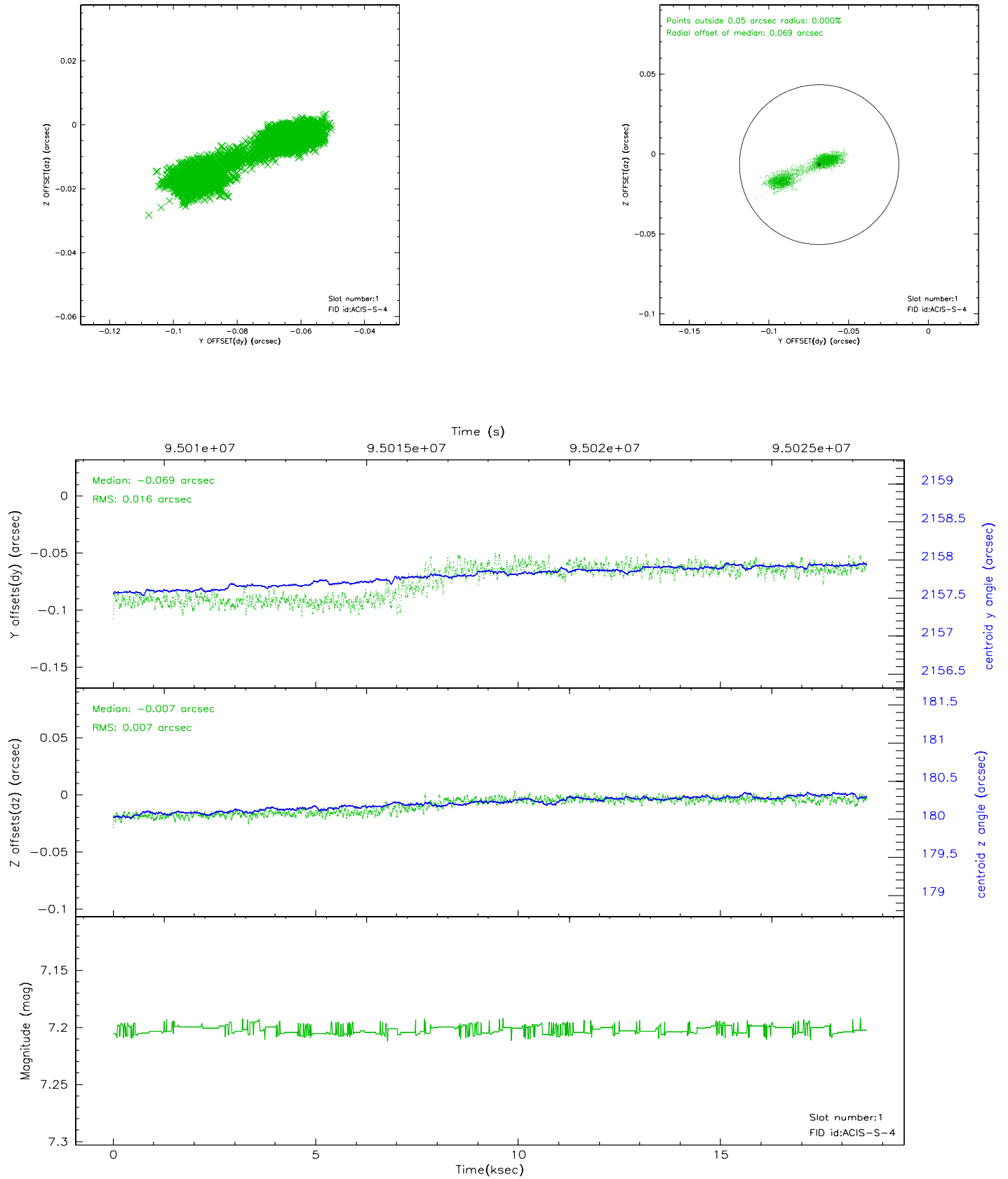


3.5 FID Slots

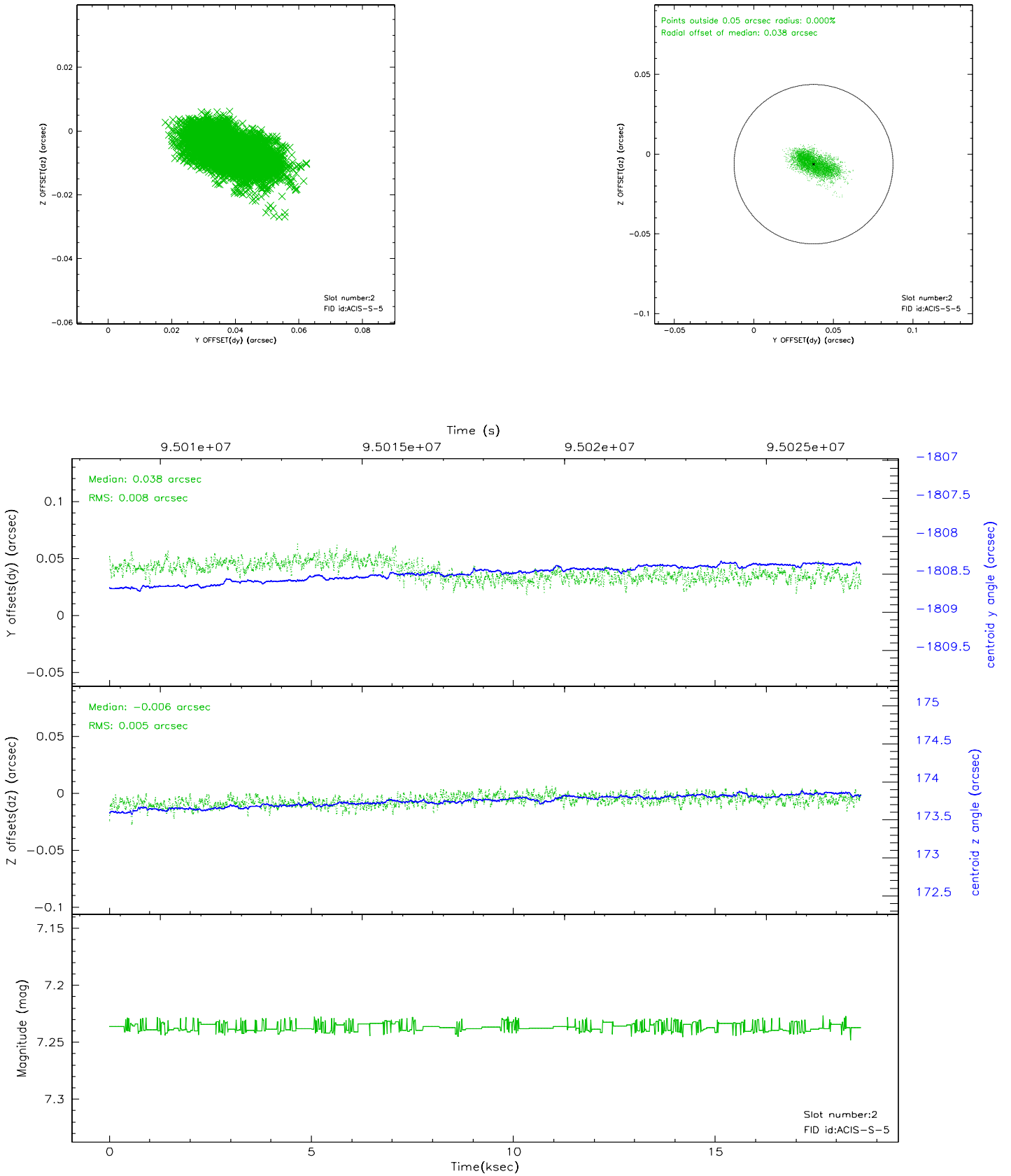
3.5.1 Slot 0



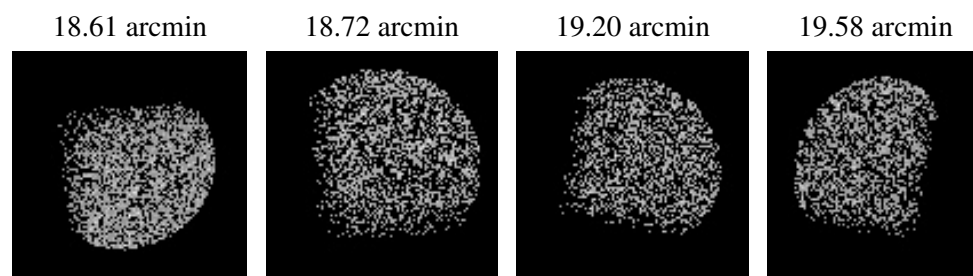
3.5.2 Slot 1



3.5.3 Slot 2



4 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2008.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.186

A.2 Comments