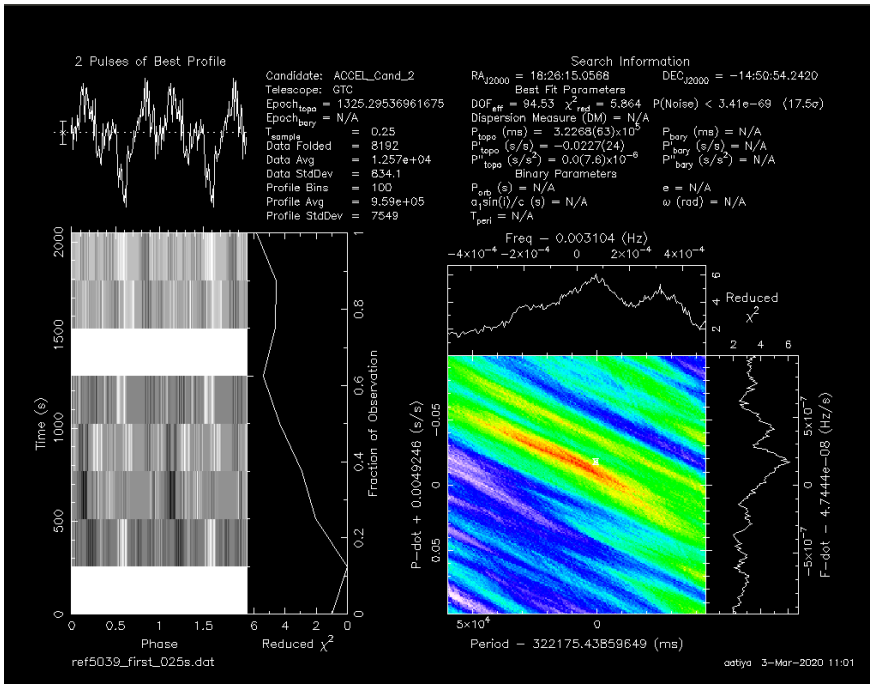
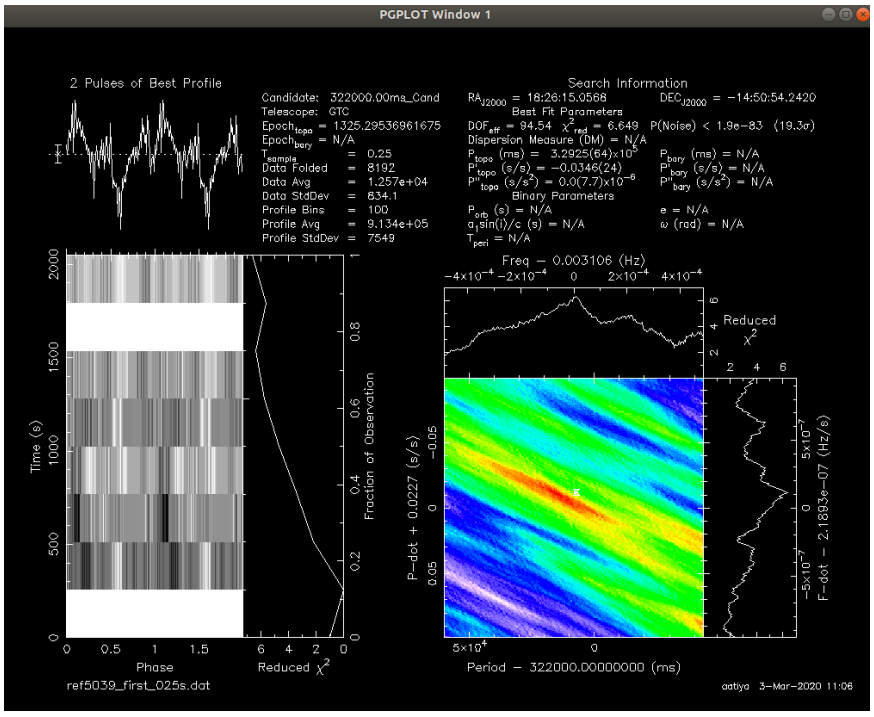
	ref_first_025s	ref_second_025s	first_025s	second_025s
Candidate 1	σ: 4973 -p **negative** -pdot 0.078	σ: 6943 -p **negative** -pd 0.078	σ: 31188 -p **negative** -pdot 0.078	σ: 54602 -p **negative** -pd 0.078
Candidate Graphs	n/a	n/a	n/a	n/a
Candidate 2	σ: 87.71 -p 322 -pd -0.0227	σ: 52.71 -p 292 -pd -0.0145	σ: 419 -p 273 -pd 0.0131	σ: 32 -p 239 -pd 0.0192
Candidate Graphs	below	below	below	below
Candidate 3	σ: < 3	σ: < 12	σ: < 14	σ: 20 -p 89 -pd -0.000361
Candidate Graphs	n/a	n/a	n/a	below

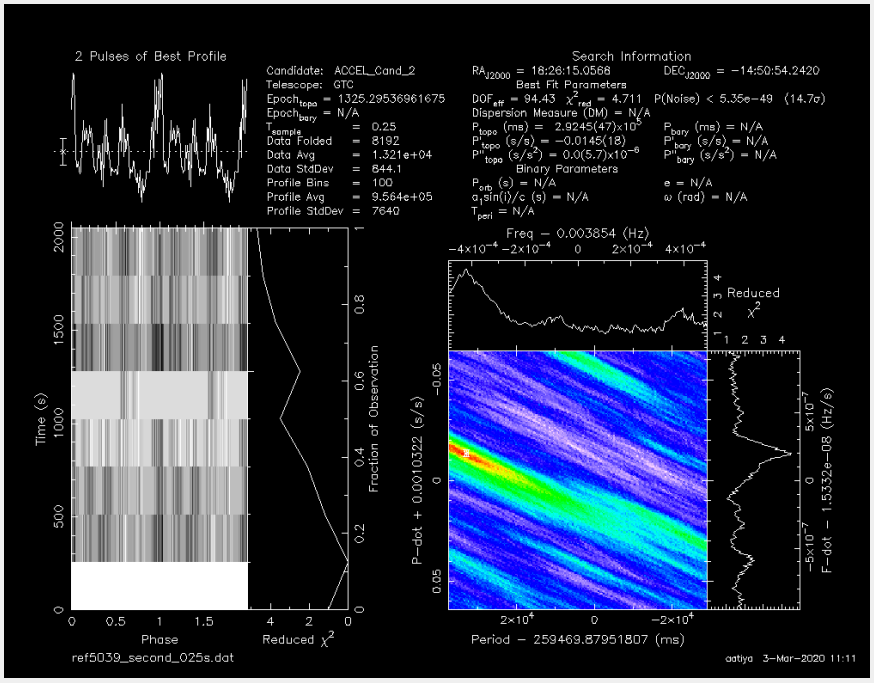
Candidate 2 prepfold and -p -pdot Graphs:

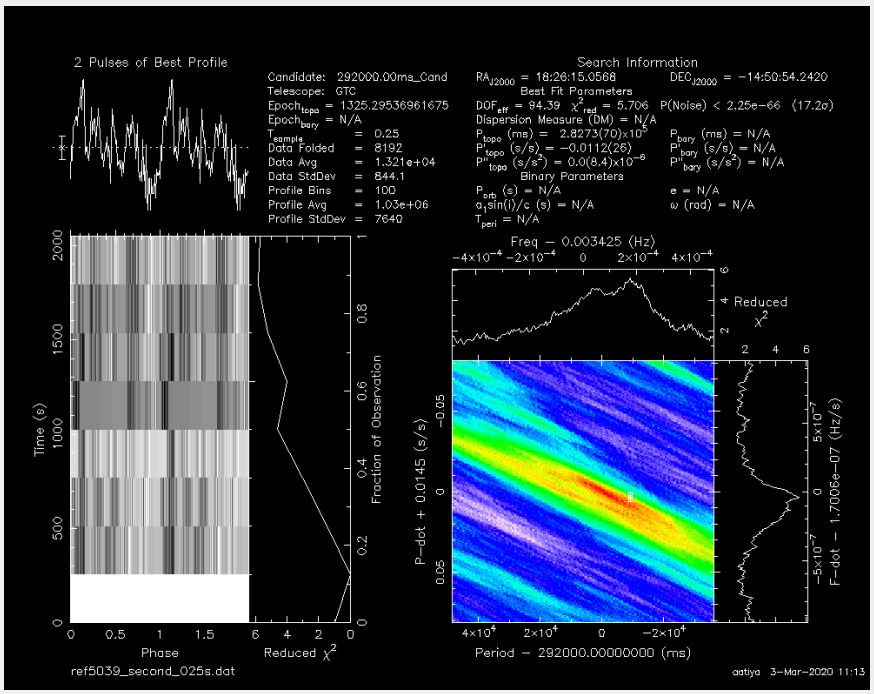
ref_first_025s



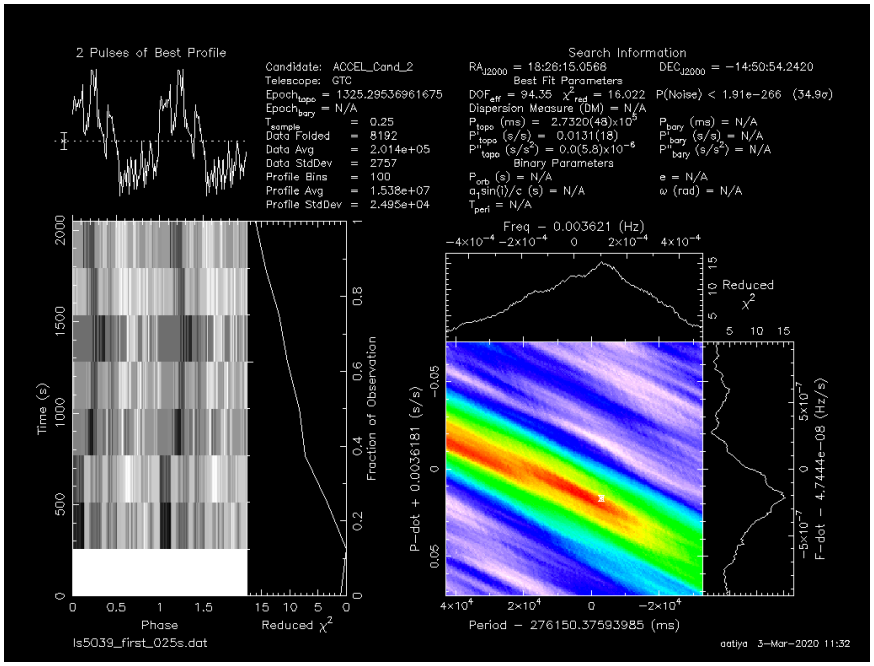


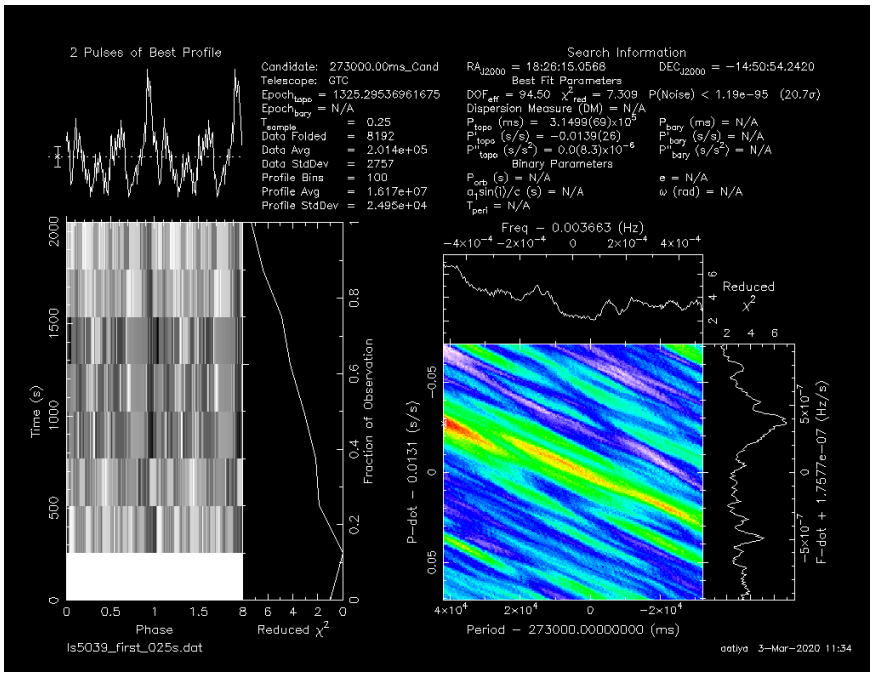
ref_second_025s



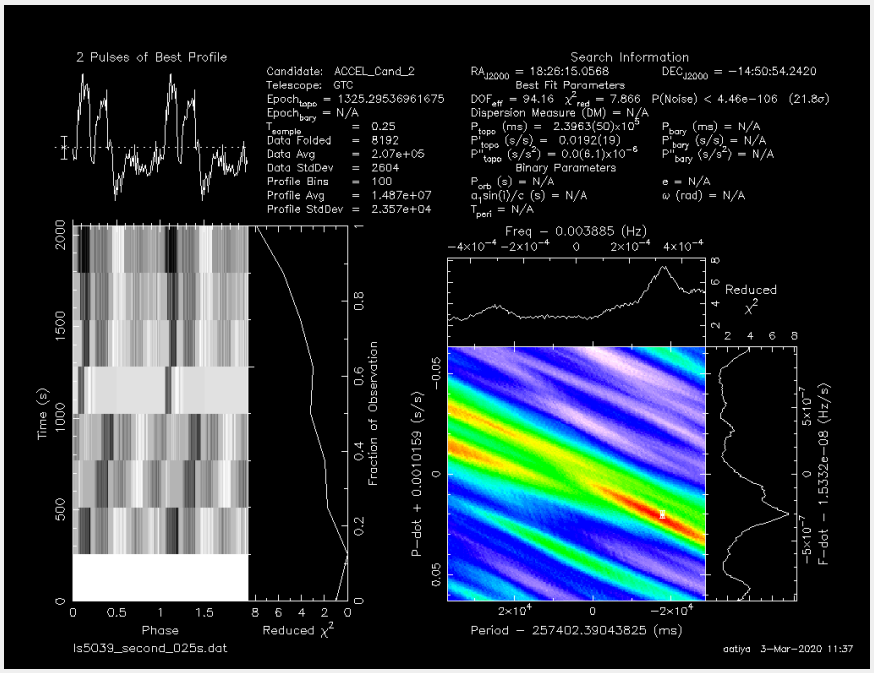


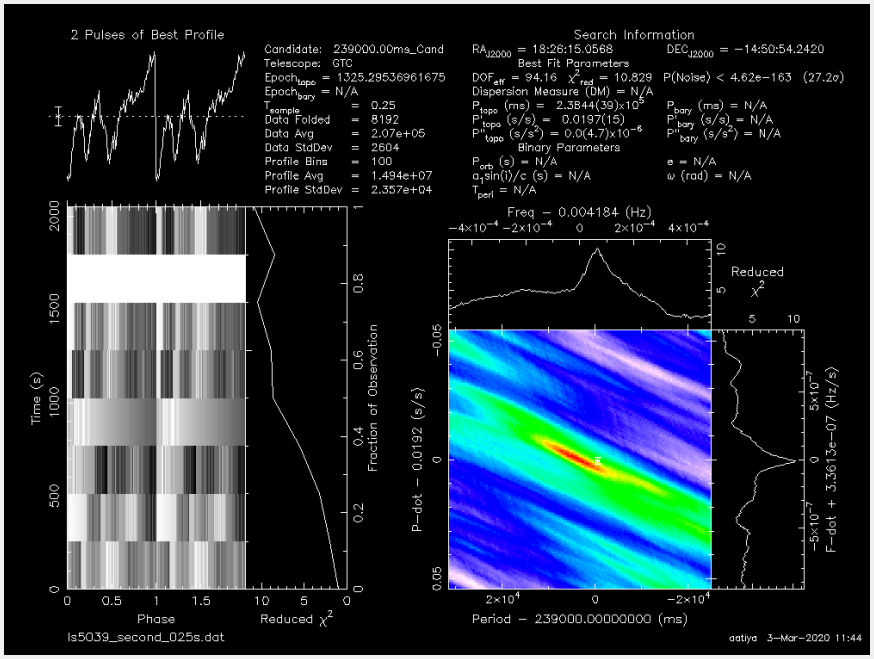
first_025s


2 Pulses of Best Profile
Candidate: ACCEL_Cand_2
Telescope: GTC
Epoch_topo = 1325.29536961675
Epoch_bary = N/A
T_sample = 0.25
Data Folded = 8192
Data Avg = 2.014e+05
Data StdDev = 2757
Profile Bins = 100
Profile Avg = 1.538e+07
Profile StdDev = 2.495e+04
Search Information
RA_J2000 = 18:26:15.0568
DEC_J2000 = -14:50:54.2420
Best Fit Parameters
DOF_eff = 94.35 χ²_red = 16.022 P(Noise) < 1.91e-266 (34.9σ)
Dispersion Measure (DM) = N/A
P_topo (ms) = 2.7320(48)x10^5
P_bary (ms) = N/A
P'_topo (s/s) = 0.0131(18)
P'_bary (s/s) = N/A
P''_topo (s/s²) = 0.0(5.8)x10^-6
P''_bary (s/s²) = N/A
Binary Parameters
P_orb (s) = N/A
e = N/A
a_1sin(i)/c (s) = N/A
ω (rad) = N/A
T_peri = N/A
Freq − 0.003621 (Hz)
Time (s)
Phase
Fraction of Observation
Reduced χ²
P−dot + 0.0036181 (s/s)
F−dot − 4.7444e−08 (Hz/s)
Period − 276150.37593985 (ms)
ls5039_first_025s.dat
aatiya 3−Mar−2020 11:32

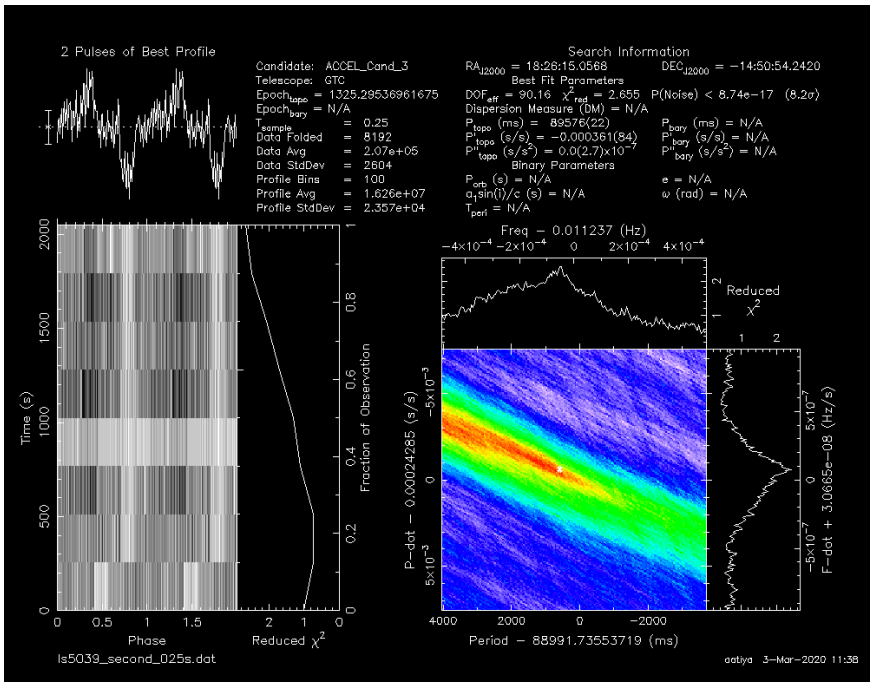
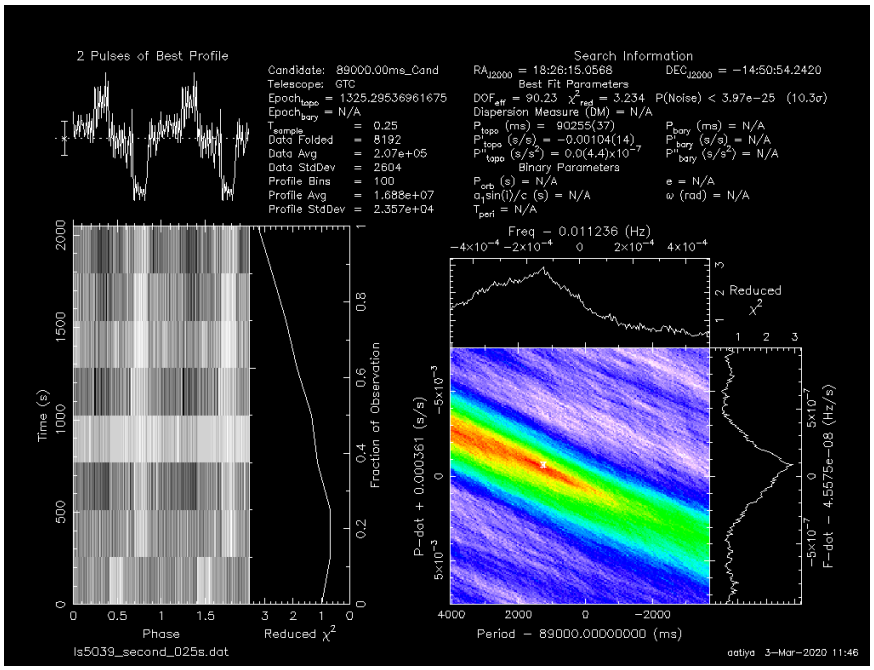

2 Pulses of Best Profile
Candidate: 273000.00ms_Cand
Telescope: GTC
Epoch_topo = 1325.29536961675
Epoch_bary = N/A
T_sample = 0.25
Data Folded = 8192
Data Avg = 2.014e+05
Data StdDev = 2757
Profile Bins = 100
Profile Avg = 1.617e+07
Profile StdDev = 2.495e+04
Search Information
RA_J2000 = 18:26:15.0568
DEC_J2000 = -14:50:54.2420
Best Fit Parameters
DOF_eff = 94.50 χ²_red = 7.309 P(Noise) < 1.19e-95 (20.7σ)
Dispersion Measure (DM) = N/A
P_topo (ms) = 3.1499(69)x10^5
P_bary (ms) = N/A
P'_topo (s/s) = −0.0139(26)
P'_bary (s/s) = N/A
P''_topo (s/s²) = 0.0(8.3)x10^-6
P''_bary (s/s²) = N/A
Binary Parameters
P_orb (s) = N/A
e = N/A
a_1sin(i)/c (s) = N/A
ω (rad) = N/A
T_peri = N/A
Freq − 0.003663 (Hz)
Time (s)
Phase
Fraction of Observation
Reduced χ²
P−dot − 0.0131 (s/s)
F−dot + 1.7577e−07 (Hz/s)
Period − 273000.00000000 (ms)
ls5039_first_025s.dat
aatiya 3−Mar−2020 11:34

second_025s


2 Pulses of Best Profile
Candidate: ACCEL_Cand_2
Telescope: GTC
Epoch_topo = 1325.29536961675
Epoch_bary = N/A
T_sample = 0.25
Data Folded = 8192
Data Avg = 2.07e+05
Data StdDev = 2604
Profile Bins = 100
Profile Avg = 1.487e+07
Profile StdDev = 2.357e+04
Search Information
RA_J2000 = 18:26:15.0568
DEC_J2000 = -14:50:54.2420
Best Fit Parameters
DOF_eff = 94.16 X^2_red = 7.866 P(Noise) < 4.46e-106 (21.8σ)
Dispersion Measure (DM) = N/A
P_topo (ms) = 2.3963(50)x10^5
P_bary (ms) = N/A
P'_topo (s/s) = 0.0192(19)
P'_bary (s/s) = N/A
P''_topo (s/s^2) = 0.0(6.1)x10^-6
P''_bary (s/s^2) = N/A
Binary Parameters
P_orb (s) = N/A
e = N/A
a_1sin(i)/c (s) = N/A
ω (rad) = N/A
T_peri = N/A
Freq = 0.003885 (Hz)
Time (s)
Phase
Reduced χ^2
Fraction of Observation
P-dot + 0.0010153 (s/s)
F-dot - 1.5332e-08 (Hz/s)
Period = 257402.39043825 (ms)
ls5039_second_025s.dat
aatiya 3-Mar-2020 11:37


2 Pulses of Best Profile
Candidate: 239000.00ms_Cand
Telescope: GTC
Epoch_topo = 1325.29536961675
Epoch_bary = N/A
T_sample = 0.25
Data Folded = 8192
Data Avg = 2.07e+05
Data StdDev = 2604
Profile Bins = 100
Profile Avg = 1.494e+07
Profile StdDev = 2.357e+04
Search Information
RA_J2000 = 18:26:15.0568
DEC_J2000 = -14:50:54.2420
Best Fit Parameters
DOF_eff = 94.16 X^2_red = 10.829 P(Noise) < 4.62e-163 (27.2σ)
Dispersion Measure (DM) = N/A
P_topo (ms) = 2.3844(39)x10^5
P_bary (ms) = N/A
P'_topo (s/s) = 0.0197(15)
P'_bary (s/s) = N/A
P''_topo (s/s^2) = 0.0(4.7)x10^-6
P''_bary (s/s^2) = N/A
Binary Parameters
P_orb (s) = N/A
e = N/A
a_1sin(i)/c (s) = N/A
ω (rad) = N/A
T_peri = N/A
Freq = 0.004184 (Hz)
Time (s)
Phase
Reduced χ^2
Fraction of Observation
P-dot - 0.0192 (s/s)
F-dot + 3.3613e-07 (Hz/s)
Period = 239000.00000000 (ms)
ls5039_second_025s.dat
aatiya 3-Mar-2020 11:44

Candidate 3 prepfold and -p -pdot Graphs:

second_025s	
	

Comparing chunked ls5039_second_025s and chunked ref_second_025s:

Reference star's candidates and pgplot [chunk 1, candidate 2]:

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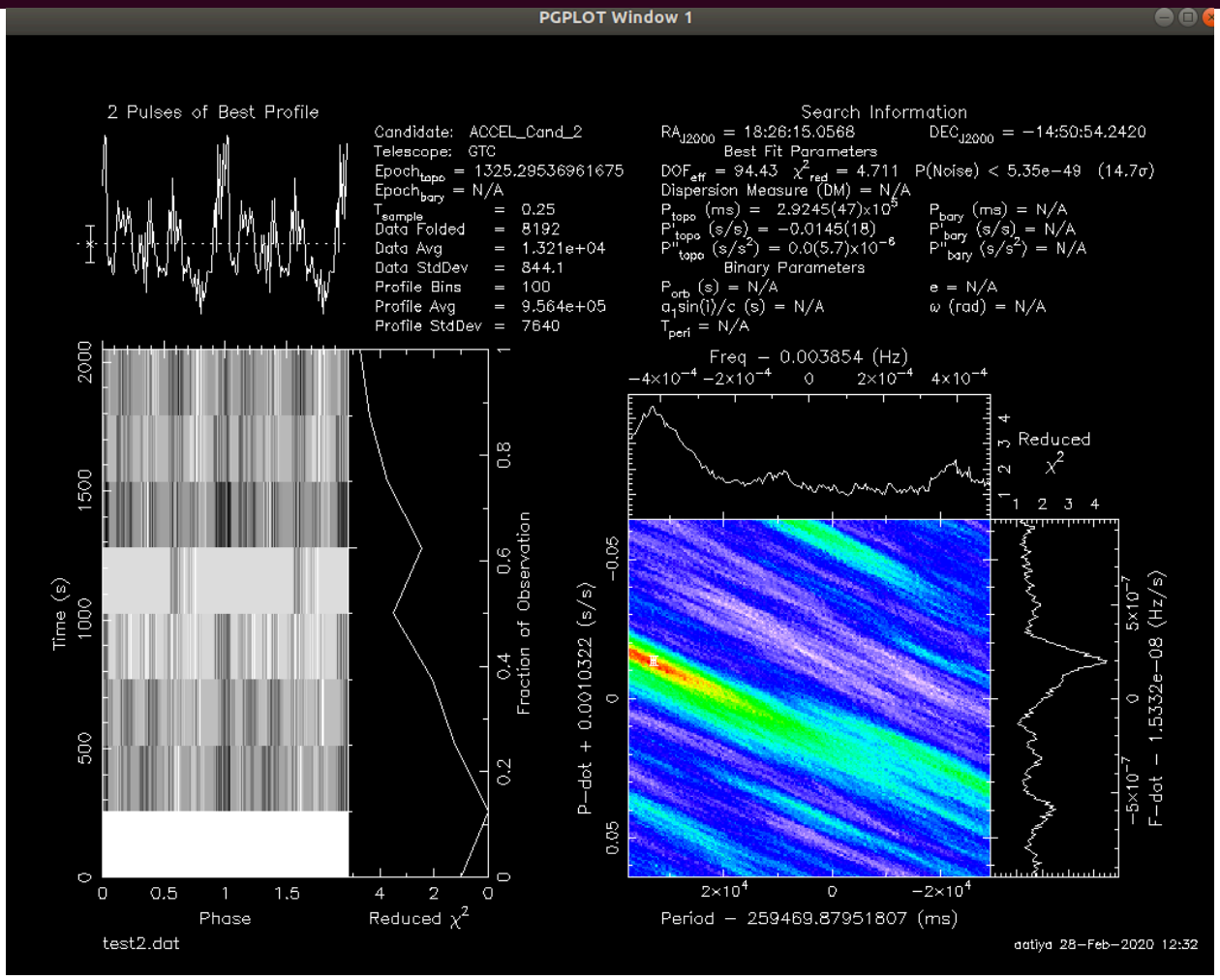
Cand	Sigma	Summed Power	Coherent Power	Num Harm	Period (ms)	Frequency (Hz)	FFT 'r' (bin)	Freq Deriv (Hz/s)	FFT 'z' (bins)	Accel (m/s^2)	Notes
1	6943.	241062	33659741	8	0.0(-2147483648)	0.00000(2)	0.000(63)	0.0(2)x10^-7	0.00(25)	0.0(-214748364.	
2	52.75	1445.7	181.18	8	2.57(1)x10^5	0.00388(2)	15.688(63)	2(2)x10^-8	0.25(25)	1.2(1.2)x10^3	
3	11.23	75.53	67.94	1	9.0(1)x10^4	0.0111(1)	45.00(50)	0.0(1)x10^-6	0.0(2.0)	0.0(3.3)x10^3	H 31 of Cand 1



ls5039's candidates and pgplot [chunk 1, candidate 2]:

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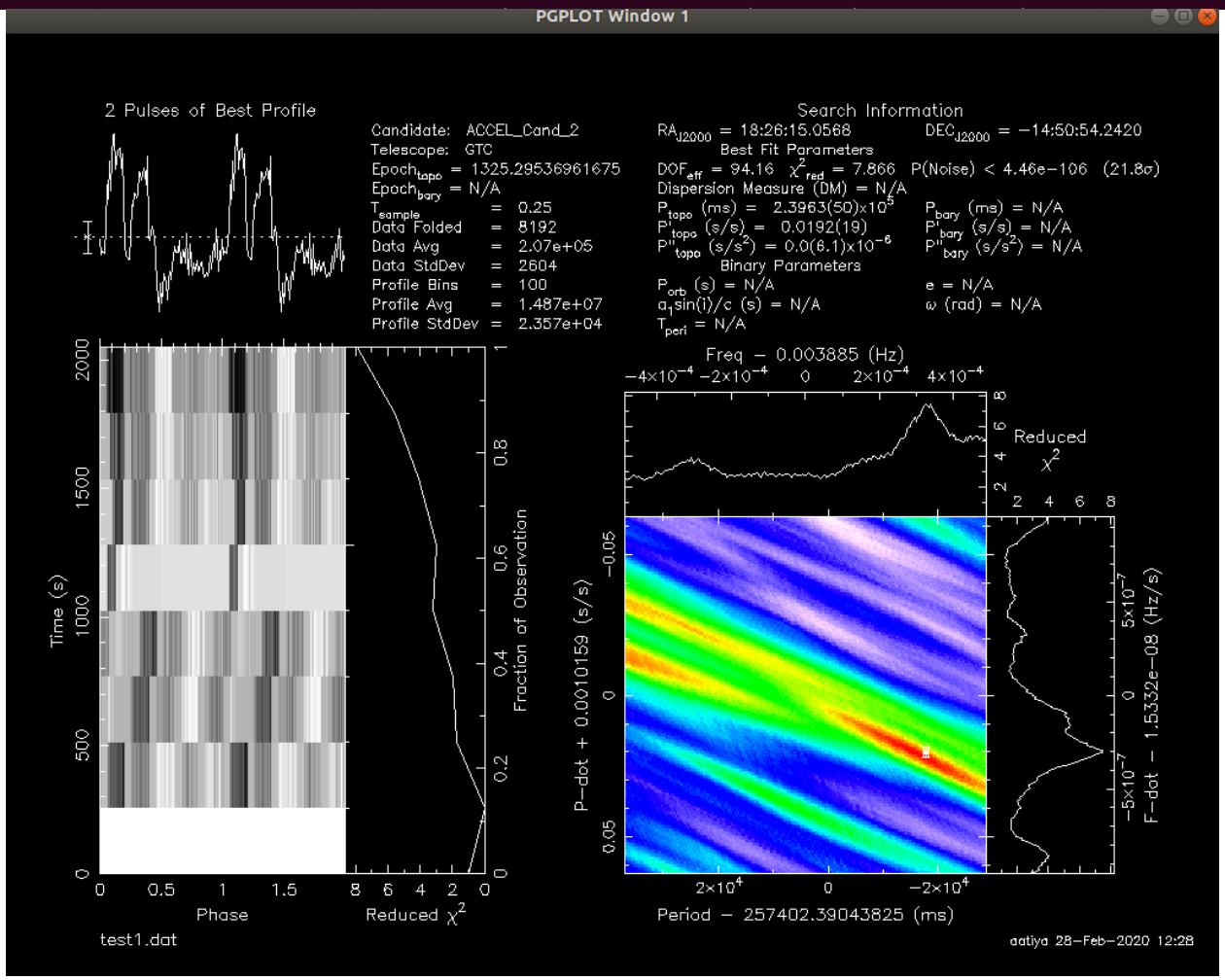
Cand	Sigma	Summed Power	Coherent Power	Num Harm	Period (ms)	Frequency (Hz)	FFT 'r' (bin)	Freq Deriv (Hz/s)	FFT 'z' (bins)	Accel (m/s^2)	Notes
1	54602	149071	29239058	8	0.0(-2147483648)	0.00000(2)	0.000(63)	0.0(2)x10^-7	0.00(25)	0.0(-214748364.	
2	32.14	563.77	481.74	8	2.55(1)x10^5	0.00392(2)	15.813(63)	2(2)x10^-8	0.25(25)	1.2(1.2)x10^3	
3	20.33	232.98	428.96	4	8.95(2)x10^4	0.01118(3)	45.13(13)	-3(3)x10^-8	-0.50(50)	-8.2(8.2)x10^2	
4	11.10	77.80	18.38	2	1307.7(1)	0.76467(6)	3087.75(25)	0.0(6)x10^-7	0.0(1.0)	0.0(2.4)x10^1	H 20 of Cand 5
5	8.81	54.35	6.21	2	2.622(4)x10^4	0.03814(6)	154.00(25)	6(6)x10^-8	1.0(1.0)	4.8(4.8)x10^2	H 10 of Cand 2
6	7.10	37.23	5.43	1	1290.9(2)	0.7746(1)	3128.00(50)	0.0(1)x10^-6	0.0(2.0)	0.0(4.7)x10^1	
7	6.74	34.69	4.10	1	1296.5(2)	0.7713(1)	3114.50(50)	-1.0(1)x10^-7	-2.0(2.0)	-48(48)	SL? of Cand 6
8	6.26	34.40	2.94	2	1318.3(1)	0.75854(6)	3063.00(25)	-6(6)x10^-8	-1.0(1.0)	-24(24)	
9	6.04	32.97	7.23	2	1286.6(1)	0.77724(6)	3138.50(25)	-6(6)x10^-8	-1.0(1.0)	-24(24)	
10	5.16	27.72	1.53	2	1300.0(1)	0.76925(6)	3106.25(25)	6(6)x10^-8	1.0(1.0)	24(24)	SL? of Cand 7
11	4.79	25.73	3.18	2	1329.9(1)	0.75192(6)	3036.25(25)	0.0(6)x10^-7	0.0(1.0)	0.0(2.4)x10^1	
12	4.38	21.18	6.03	1	650.35(5)	1.5376(1)	6209.00(50)	0.0(1)x10^-6	0.0(2.0)	0.0(2.4)x10^1	H 40 of Cand 5
13	3.23	16.52	8.68	1	1276.2(2)	0.7836(1)	3164.00(50)	-1.0(1)x10^-7	-2.0(2.0)	-47(47)	
14	3.22	16.49	6.14	1	652.98(5)	1.5315(1)	6184.00(50)	-1.0(1)x10^-7	-2.0(2.0)	-24(24)	H 40 of Cand 5



* spikes look pretty consistent? So they're mostly instrumental?