

KIC 008264617

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
008264617-01	OBS	No	517.851323	278.152414	3594.9	14.178	29.3	3.1	1.77	7538	10.66	4.30
008264617-02	OBS	No	386.638685	438.161312	8590.0	16.310	29.1	6.9	1.77	7538	16.46	6.35
008264617-03	OBS	No	352.703184	237.363302	2010.0	3.000	25.8	-1.0	1.77	7538	7.97	7.18
008264617-04	OBS	No	215.001184	240.420873	569.3	2.033	21.8	2.0	1.77	7538	4.34	13.89
008264617-05	OBS	No	397.741702	457.790136	1497.1	4.589	22.3	1.7	1.77	7538	8.46	6.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264617-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264617-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
008264617-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
008264617-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264617-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

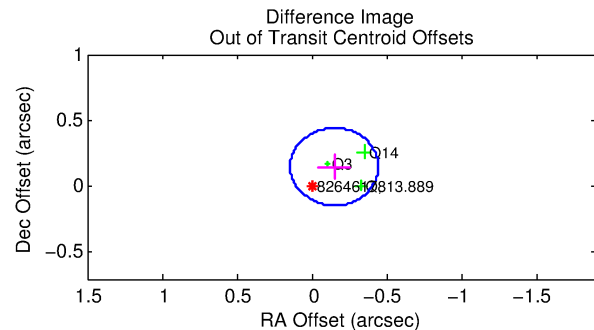
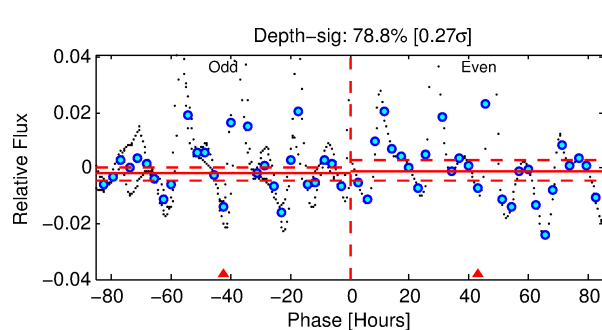
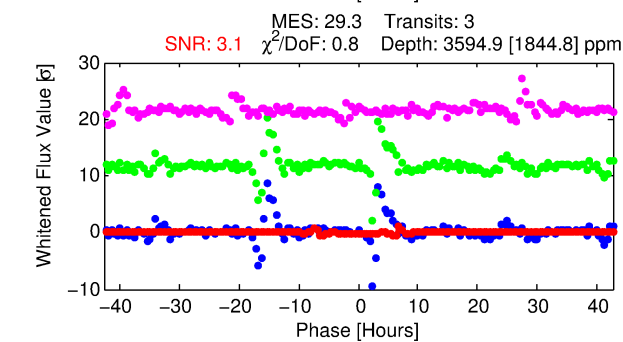
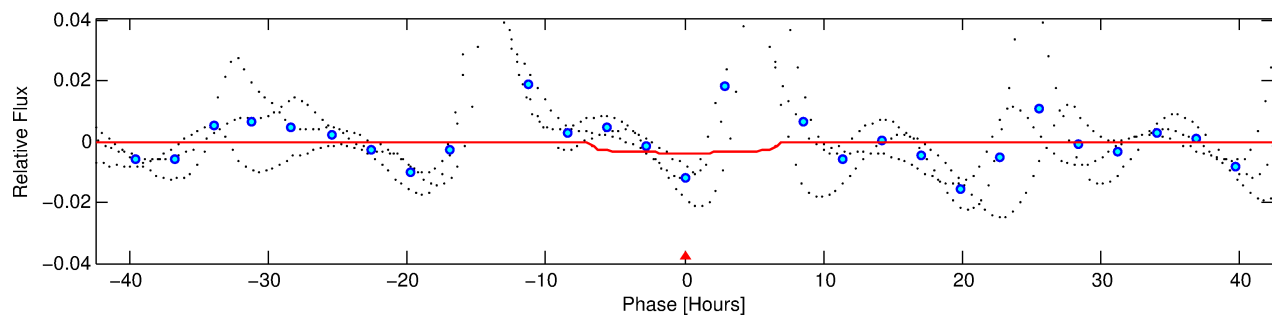
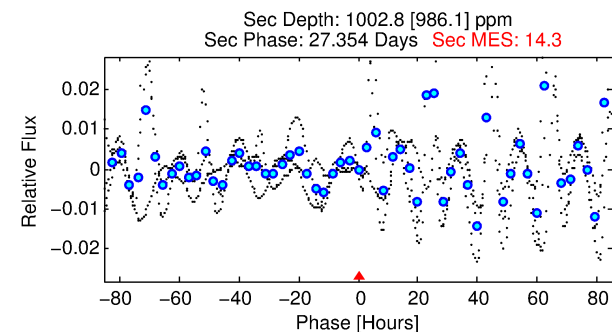
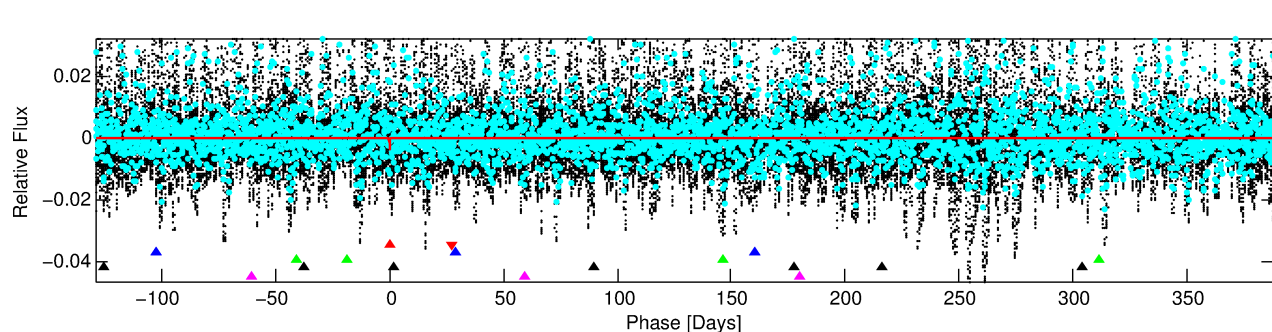
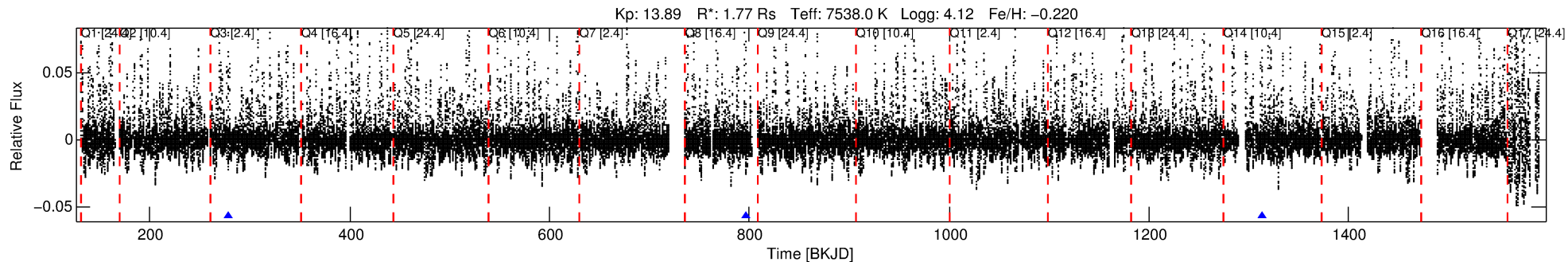
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264617-01

No Significant Match Found

DV One-Page Summary

KIC: 8264617 Candidate: 1 of 5 Period: 517.851 d



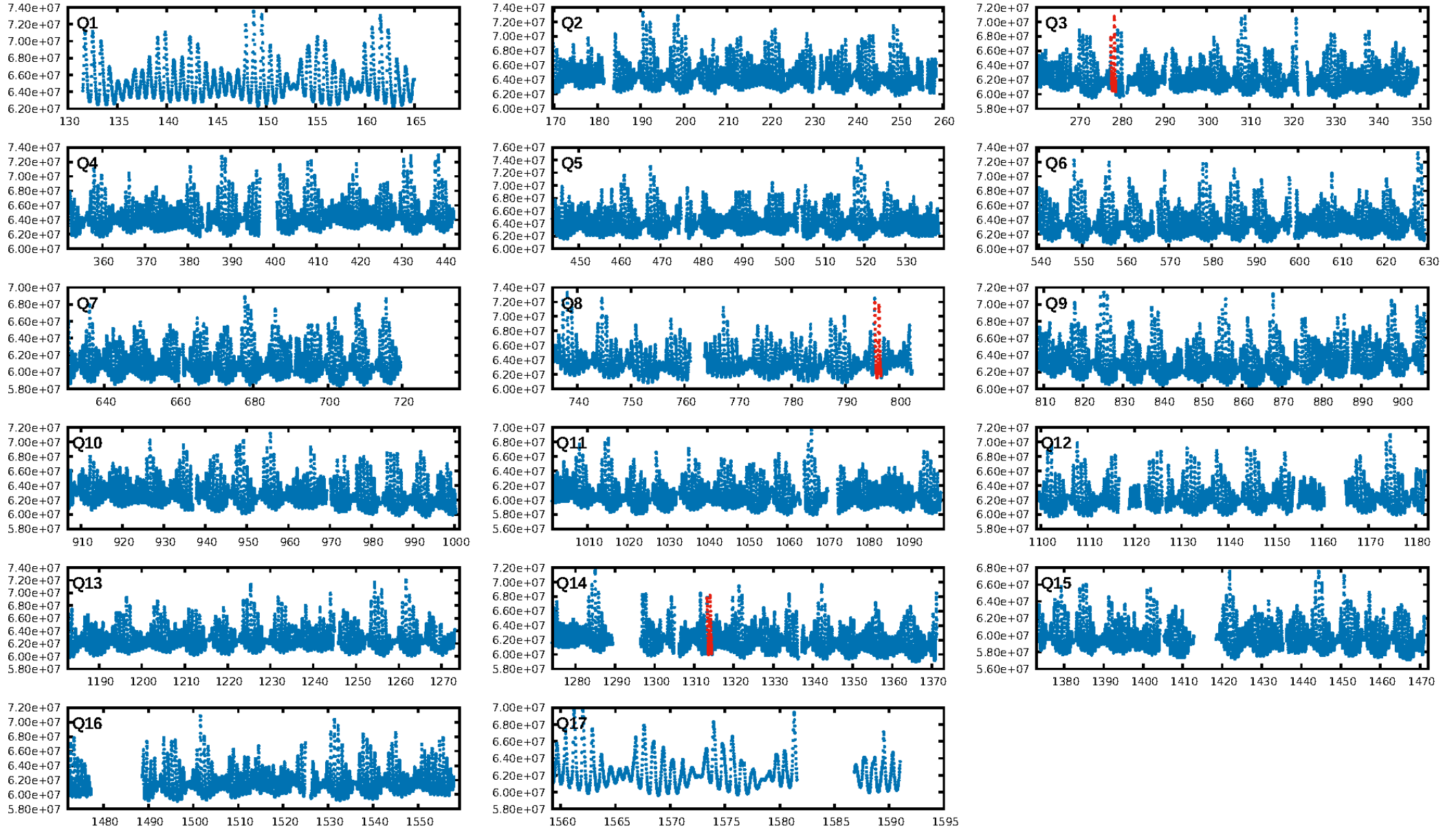
DV Fit Results:

Period = 517.85132 [0.00626] d
Epoch = 278.1524 [0.0084] BKJD
Rp/R* = 0.0553 [0.0169]
a/R* = 292.99 [137.40]
b = 0.11 [4.34]
Seff = 4.30 [1.62]
Teq = 367 [35] K
Rp = 10.66 [4.47] Re
a = 1.4482 [0.3416] AU
Ag = 10190.45 [12296.26] [0.83σ]
Teffp = 5705 [1670] K [3.20σ]

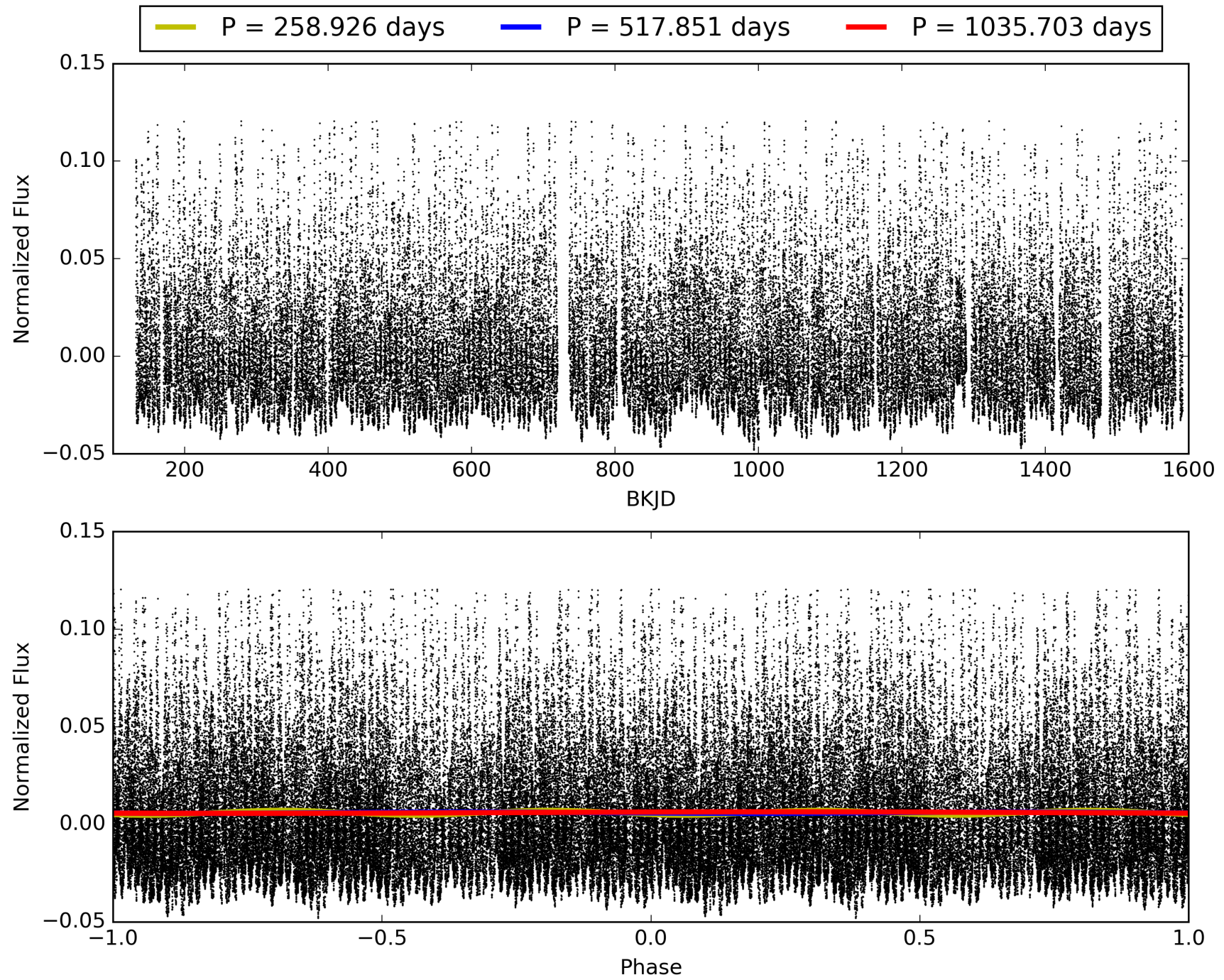
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [193.44σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 86.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.9816
Centroid-sig: 13.9%
Centroid-so: 1.203 arcsec [4.82σ]
OotOffset-rm: 0.212 arcsec [2.17σ]
KicOffset-rm: 0.357 arcsec [3.94σ]
OotOffset-st: 1/1/1/0 [3]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 008264617-01, PDC Light Curves

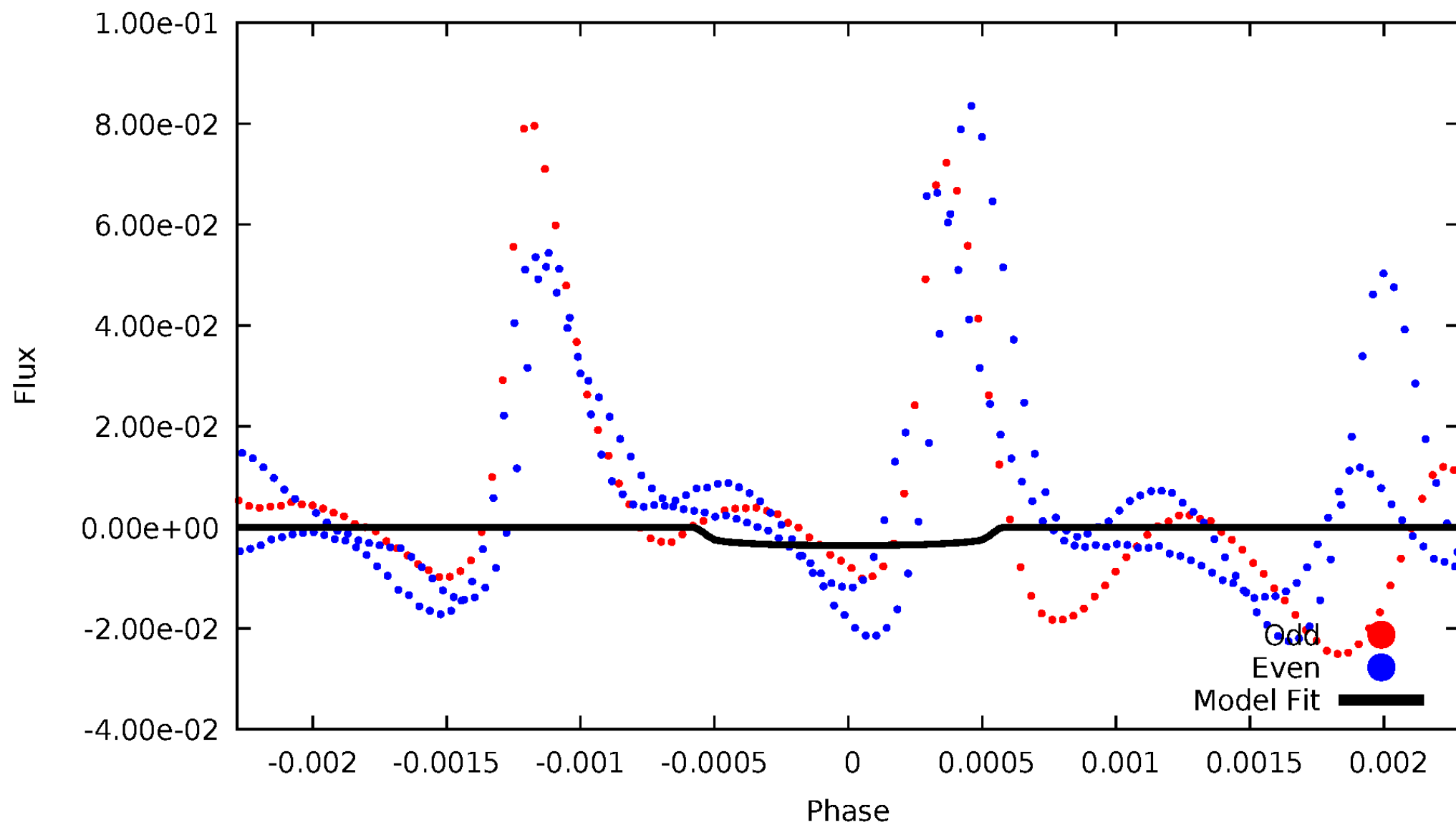


TCE 008264617-01



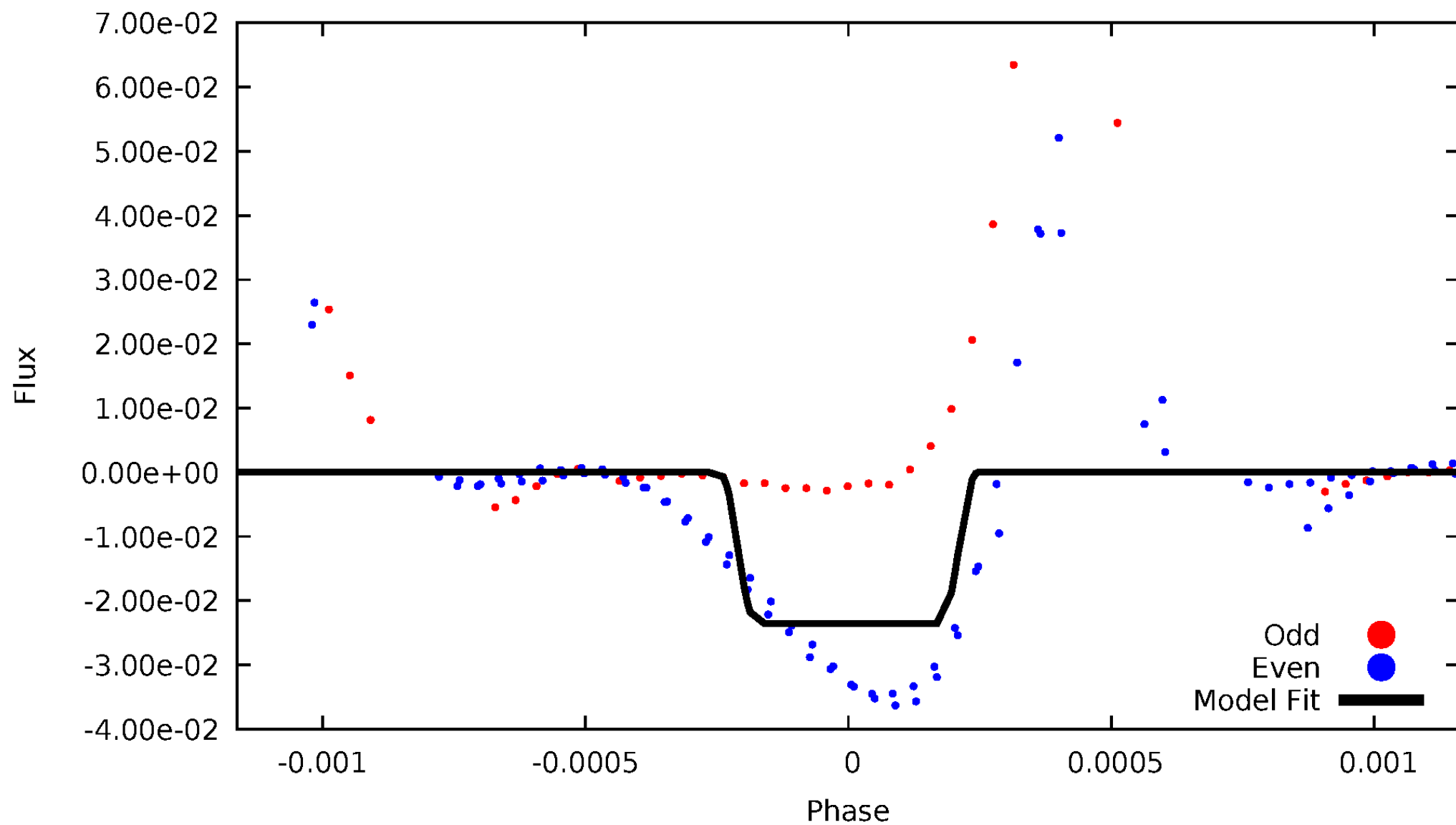
DV Odd/Even

TCE 008264617-01



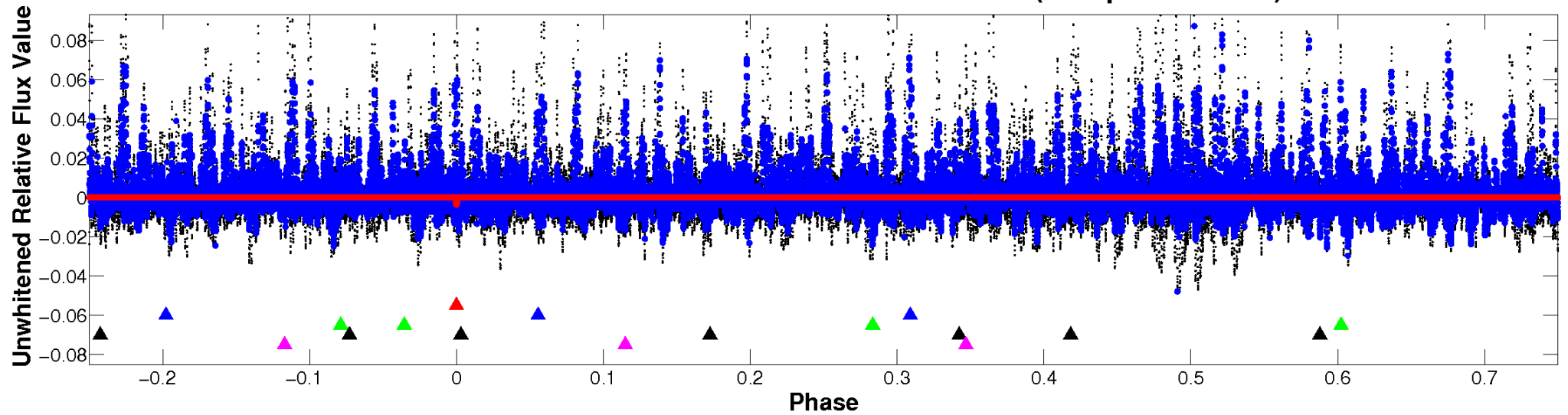
ALT Odd/Even

TCE 008264617-01

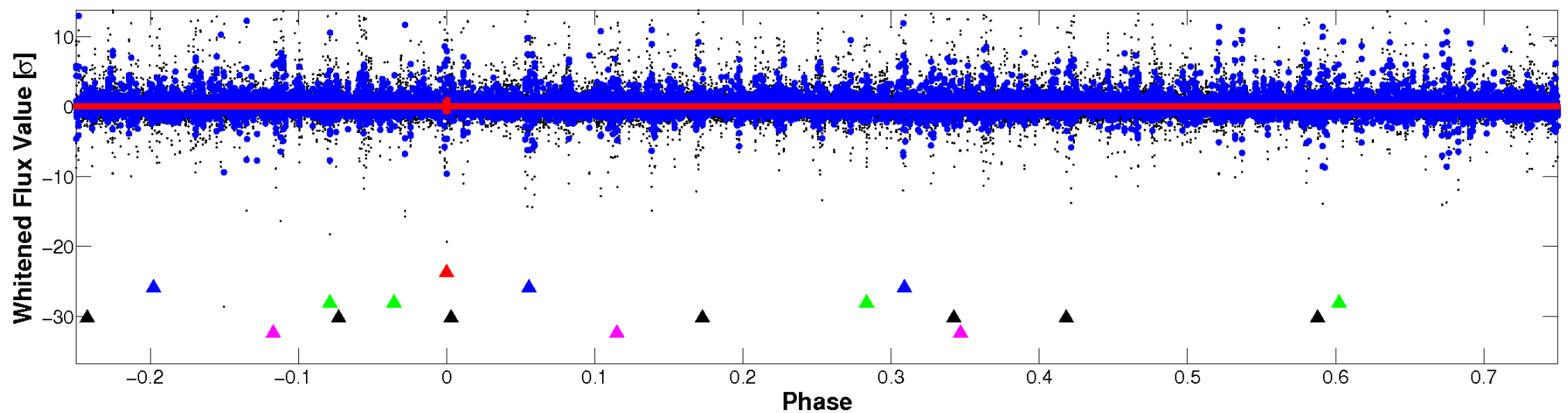


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

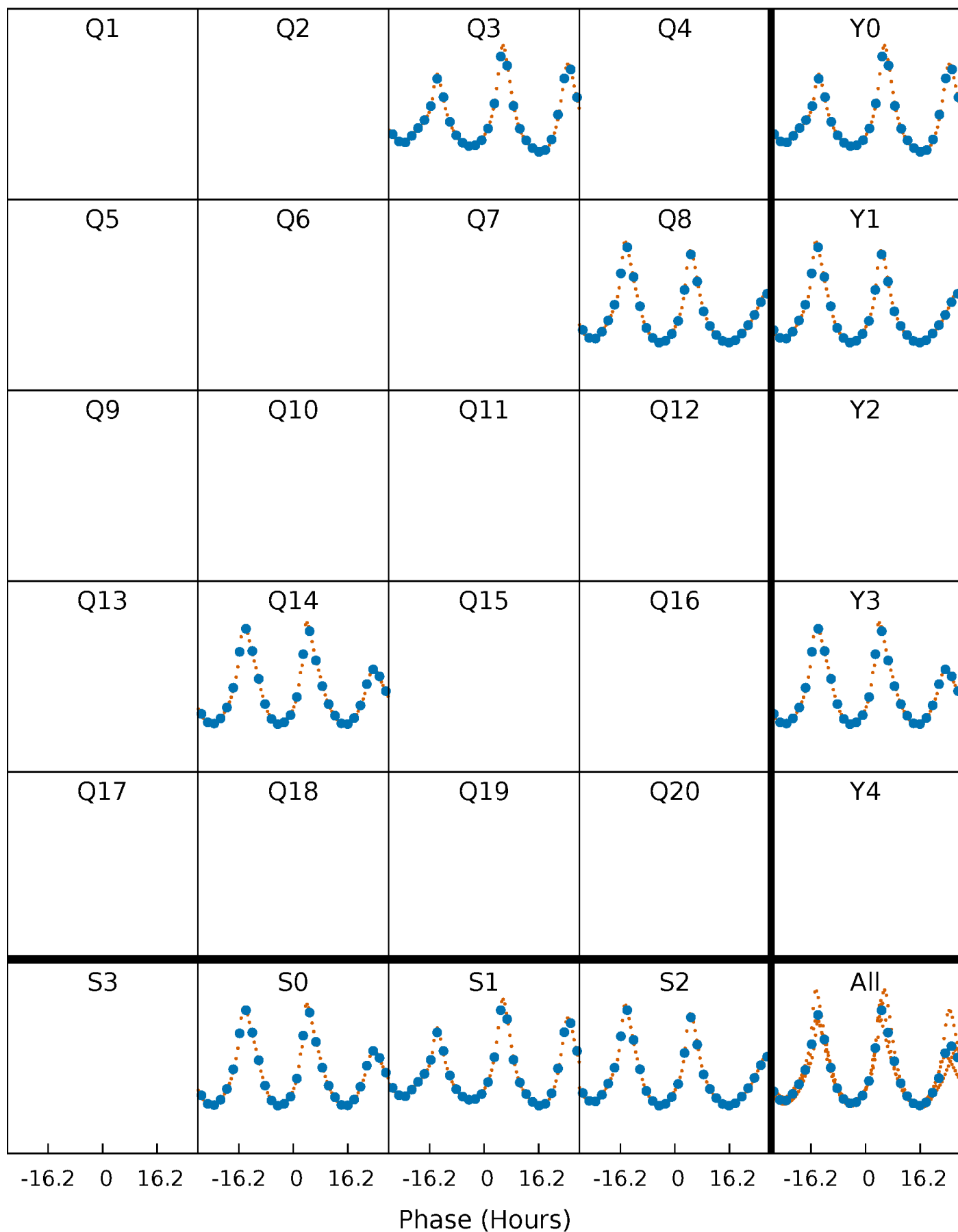


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



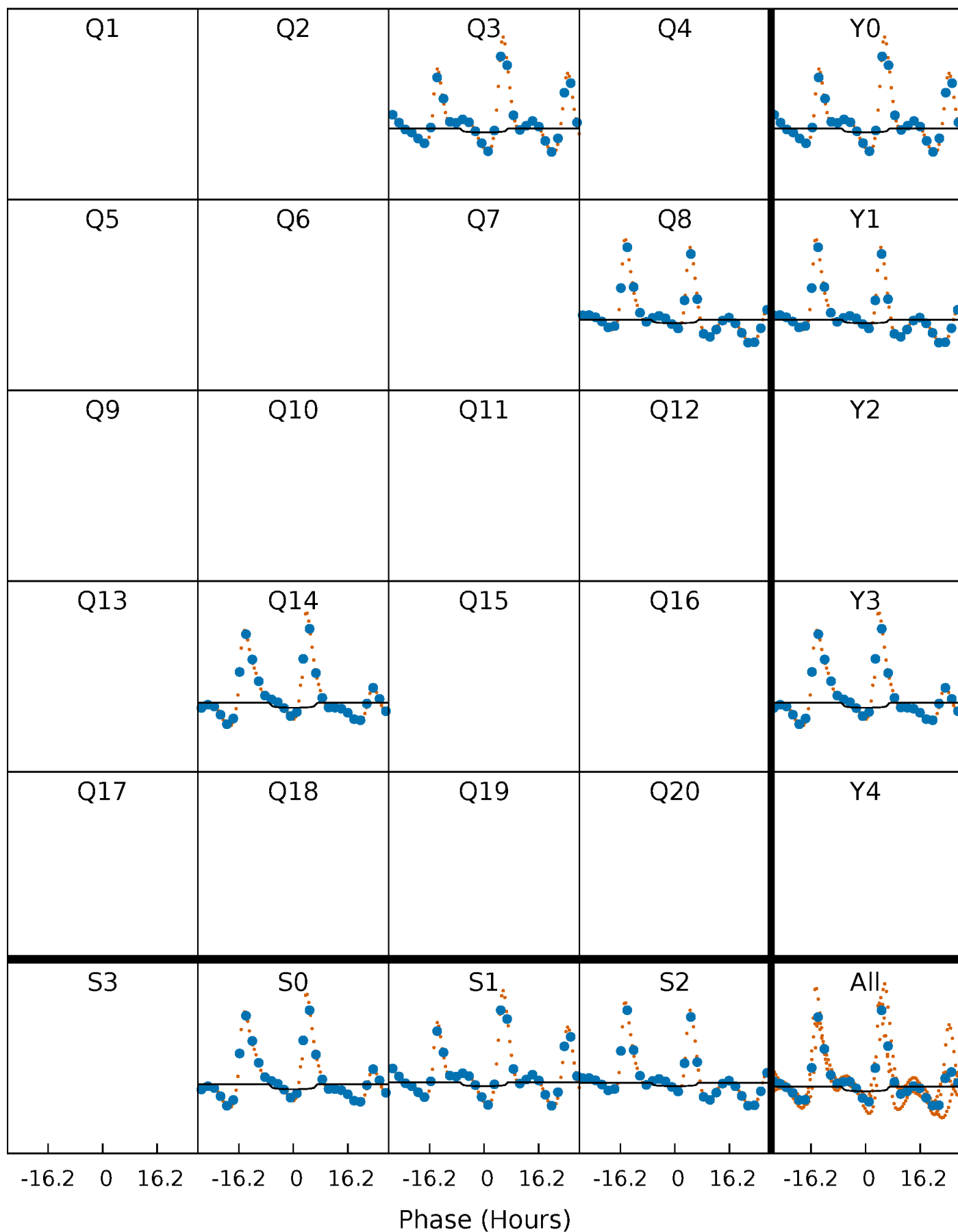
PDC Quarter-Phased Transit Curves

TCE 008264617-01 P=517.851323 Days $T_0=278.152414$ (BKJD)



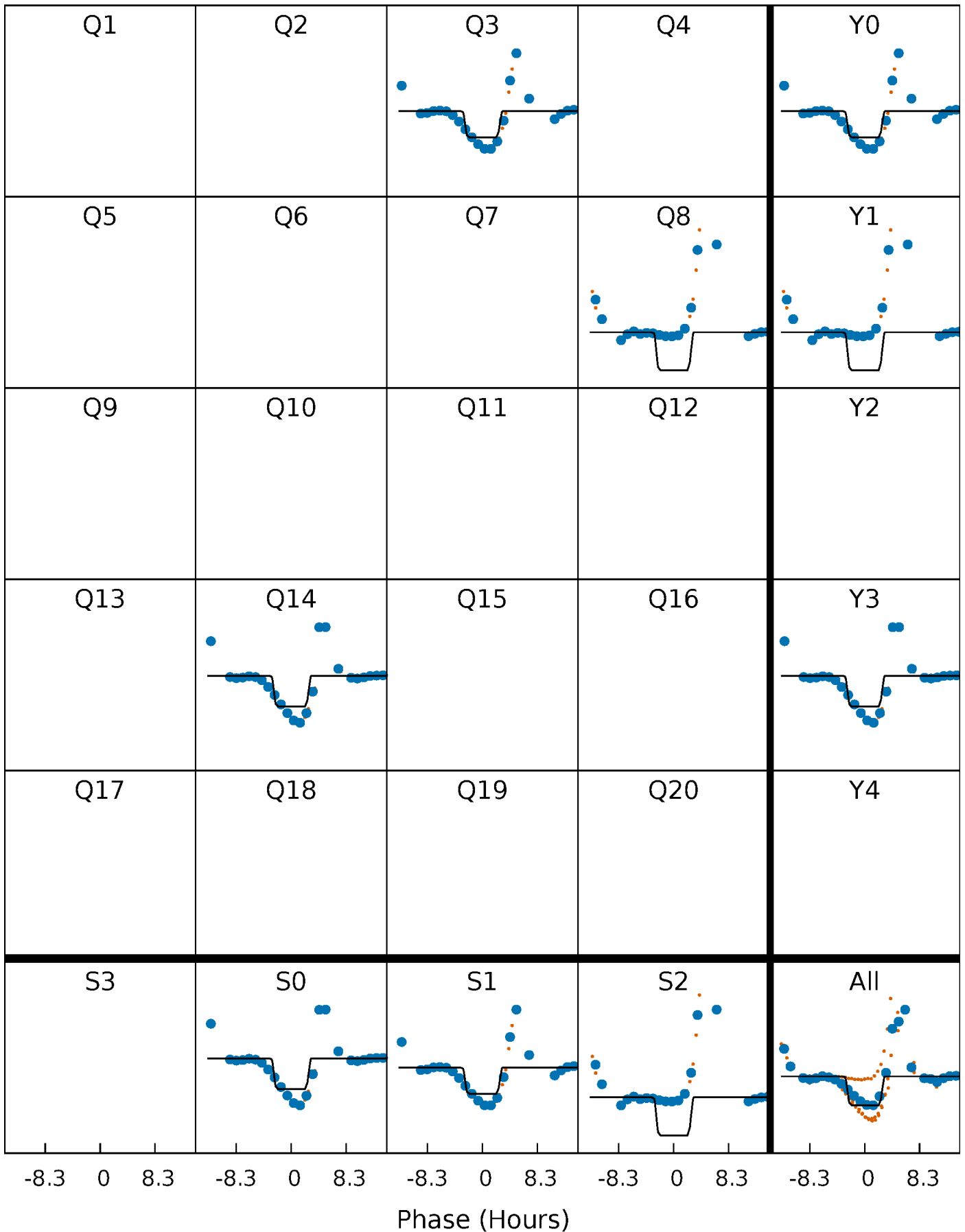
DV Quarter-Phased Transit Curves

TCE 008264617-01 P=517.851323 Days $T_0=278.152414$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

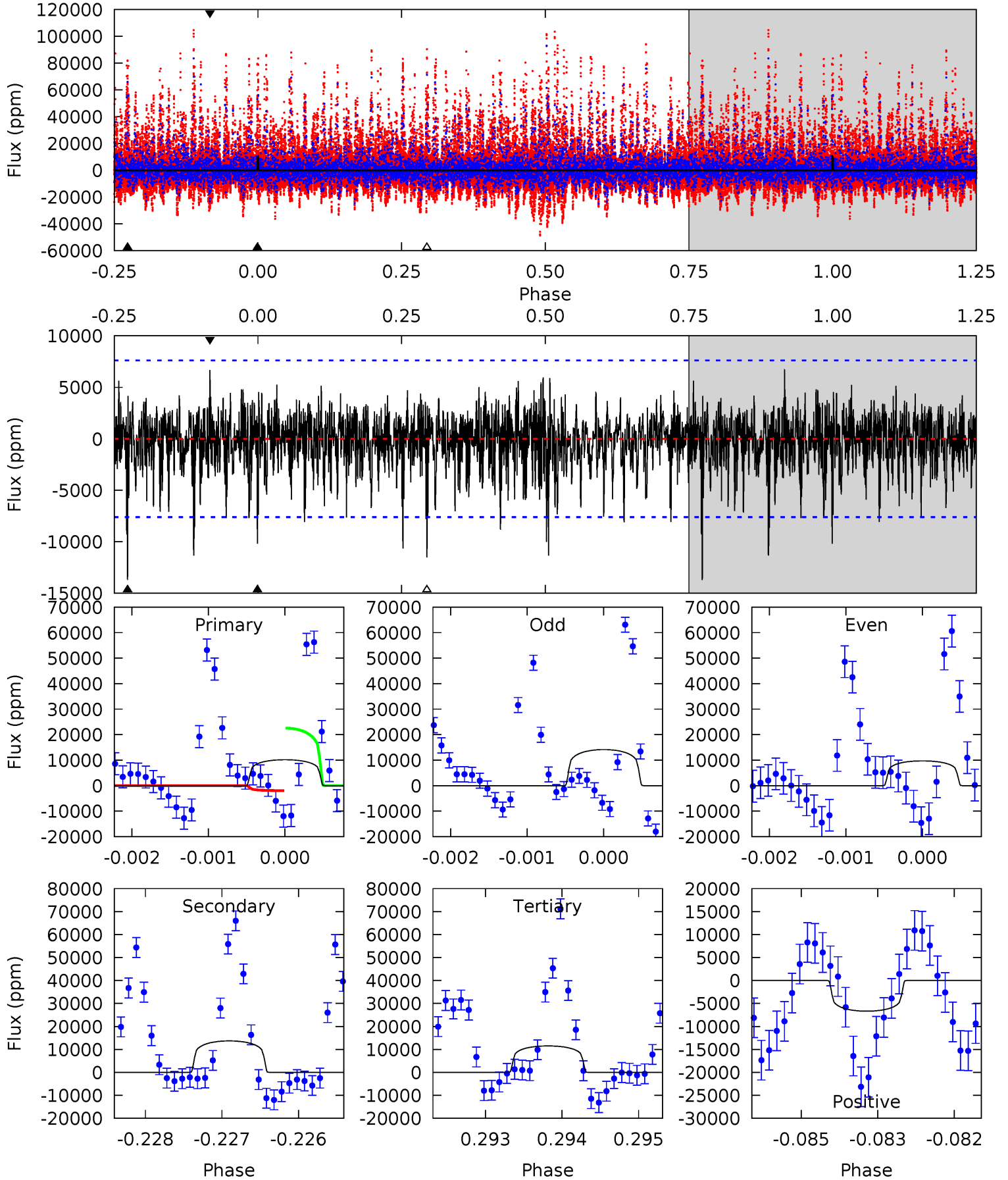
TCE 008264617-01 P=517.827278 Days $T_0=278.162633$ (BKJD)



DV Model-Shift Uniqueness Test

008264617-01, P = 517.851323 Days, E = 278.152414 Days

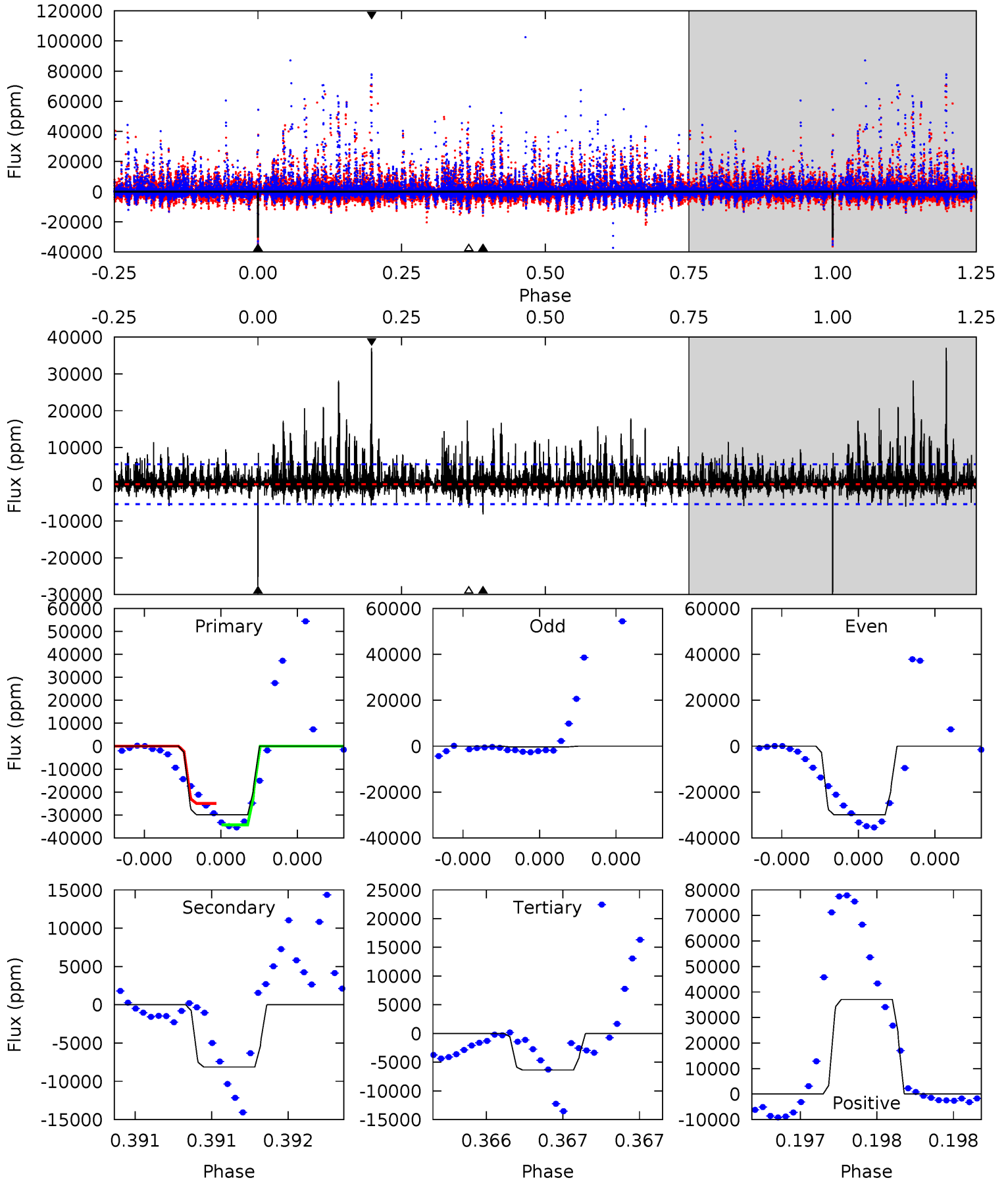
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.25	9.77	8.21	4.77	5.43	3.25	1.66	-0.96	2.48	1.56	5.00	1.39	0.98	0.33	7.37



Alt Model-Shift Uniqueness Test

008264617-01, P = 517.827278 Days, E = 278.162633 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.7	8.35	6.53	38.1	5.58	3.49	2.64	24.1	-7.41	1.83	-29.7	11.9	0.67	0.55	0



Stellar Parameters For KIC 008264617

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7538^{+237}_{-316}	$4.123^{+0.148}_{-0.181}$	$-0.220^{+0.250}_{-0.350}$	$1.766^{+0.505}_{-0.413}$	$1.510^{+0.219}_{-0.241}$	$0.386^{+0.345}_{-0.183}$
	+3%/-4%	+4%/-4%	+114%/-159%	+29%/-23%	+15%/-16%	+89%/-47%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264617-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-13689 ± 1402	$10.63^{+3.86}_{-3.28}$	514^{+36}_{-35}	12914^{+5538}_{-2743}	$140014^{+153833}_{-65398}$
Alt.	-8132 ± 974	$30.00^{+5.54}_{-5.16}$	515^{+40}_{-38}	5678^{+402}_{-363}	10317^{+4734}_{-2848}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

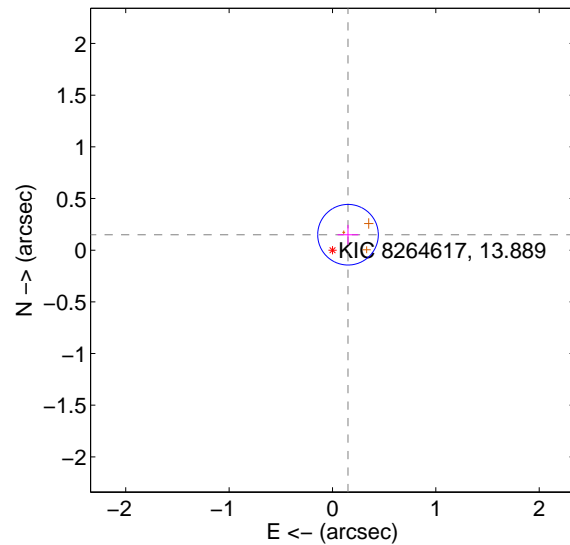
Supplemental centroid analysis for 008264617-01. Kepler magnitude: 13.89. Transit SNR 3.13

There are 0 quarters with good PRF difference image offsets

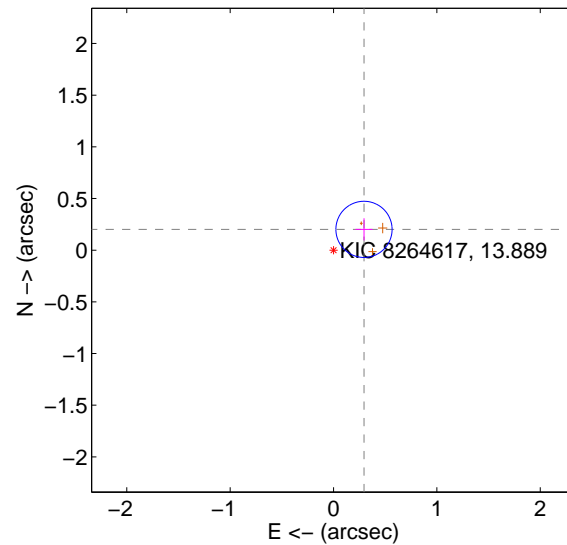
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.212 ± 0.098	2.17	-0.150 ± 0.101	0.150 ± 0.095
PRF-fit source offset from KIC position	0.357 ± 0.091	3.94	-0.295 ± 0.082	0.201 ± 0.107
photometric centroid source offset	1.20 ± 0.25	4.82	1.19 ± 0.25	0.20 ± 0.22

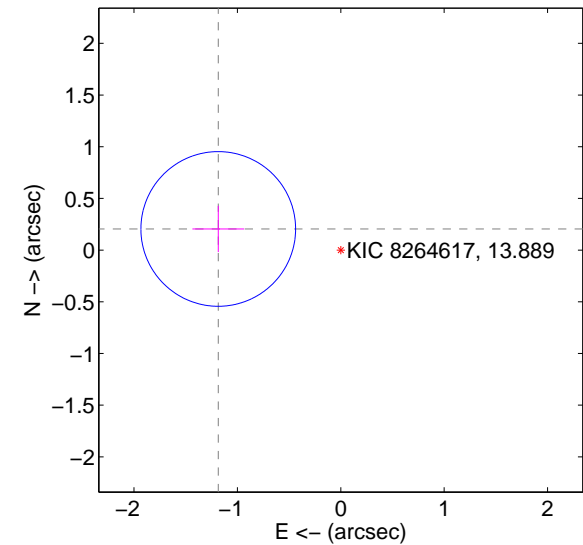
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

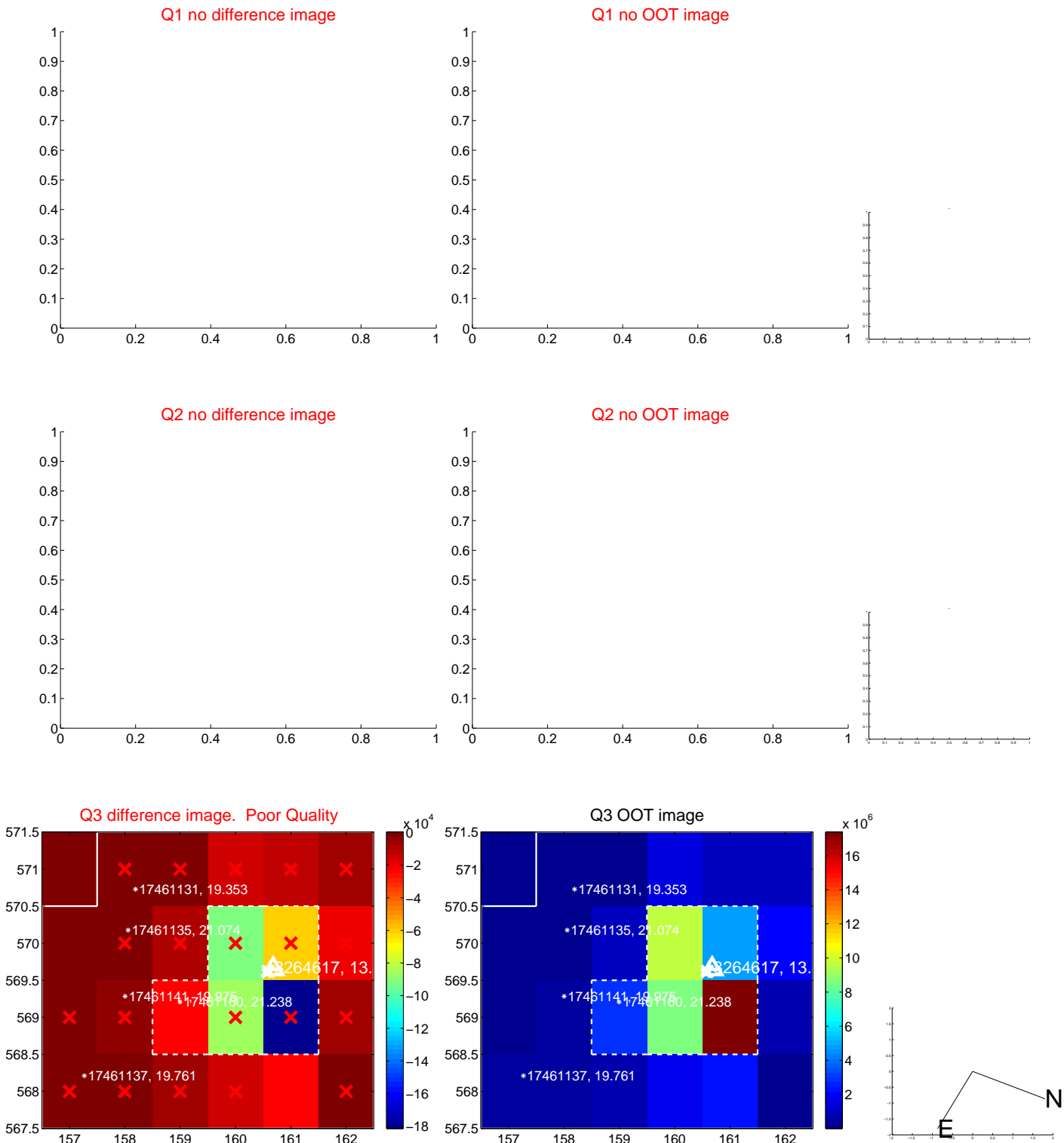


offset from photometric centroids

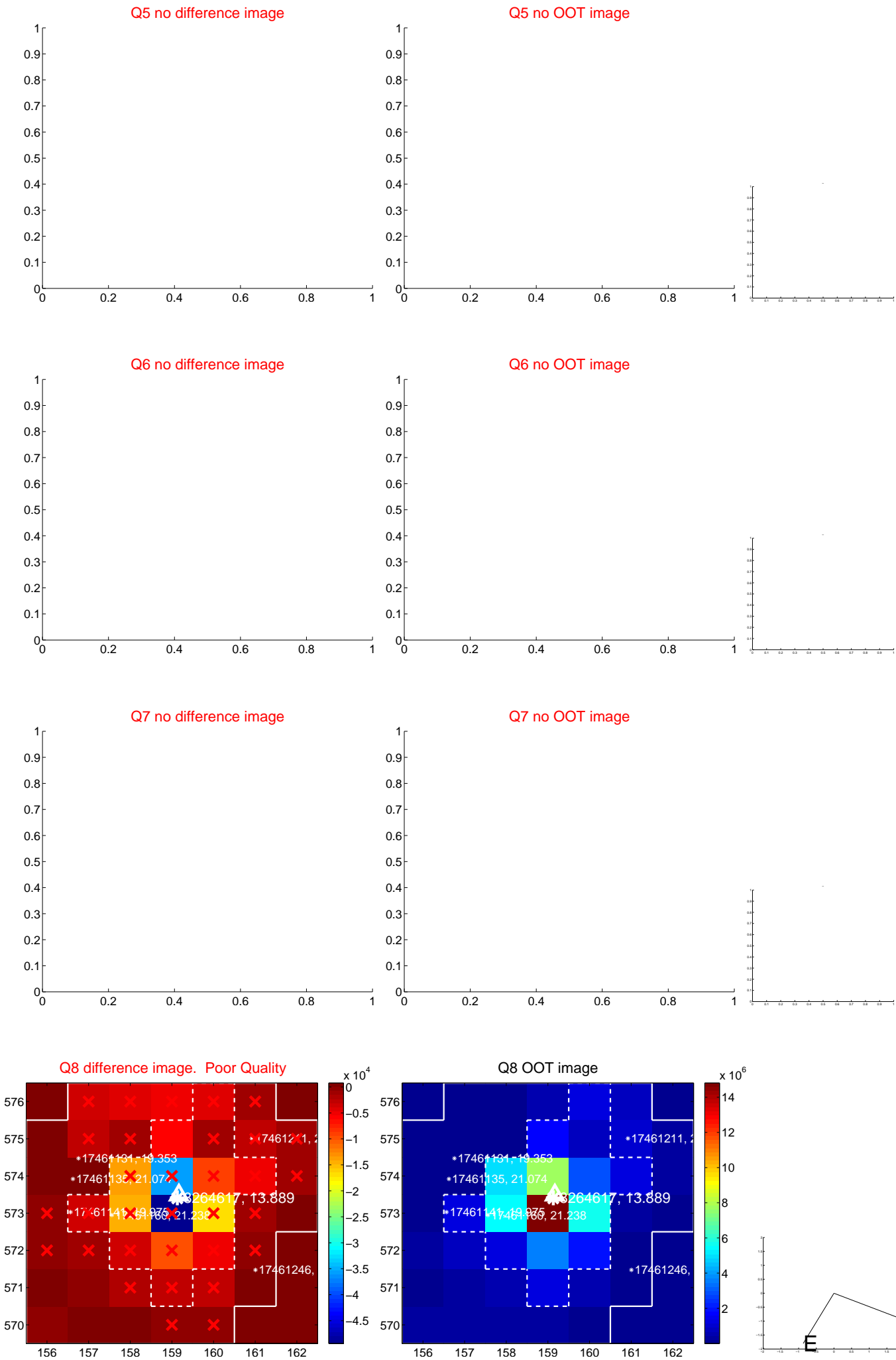


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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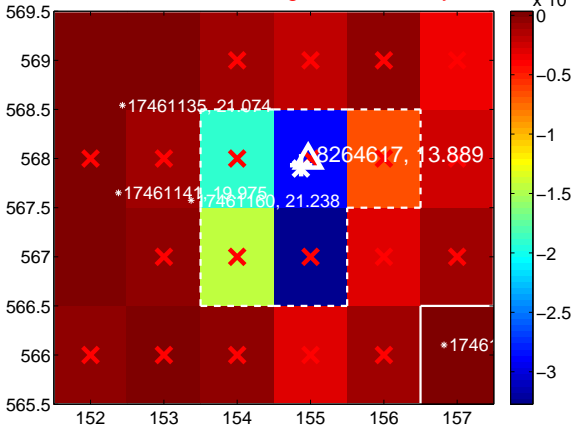
Q13 no difference image



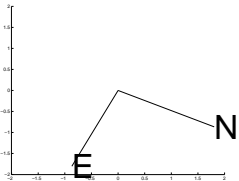
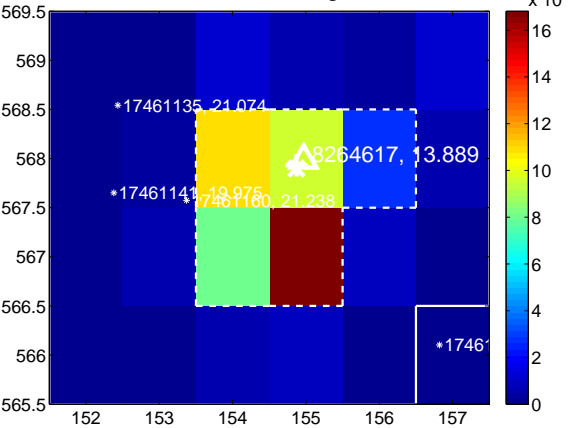
Q13 no OOT image



Q14 difference image. Poor Quality



Q14 OOT image



Q15 no difference image



Q15 no OOT image



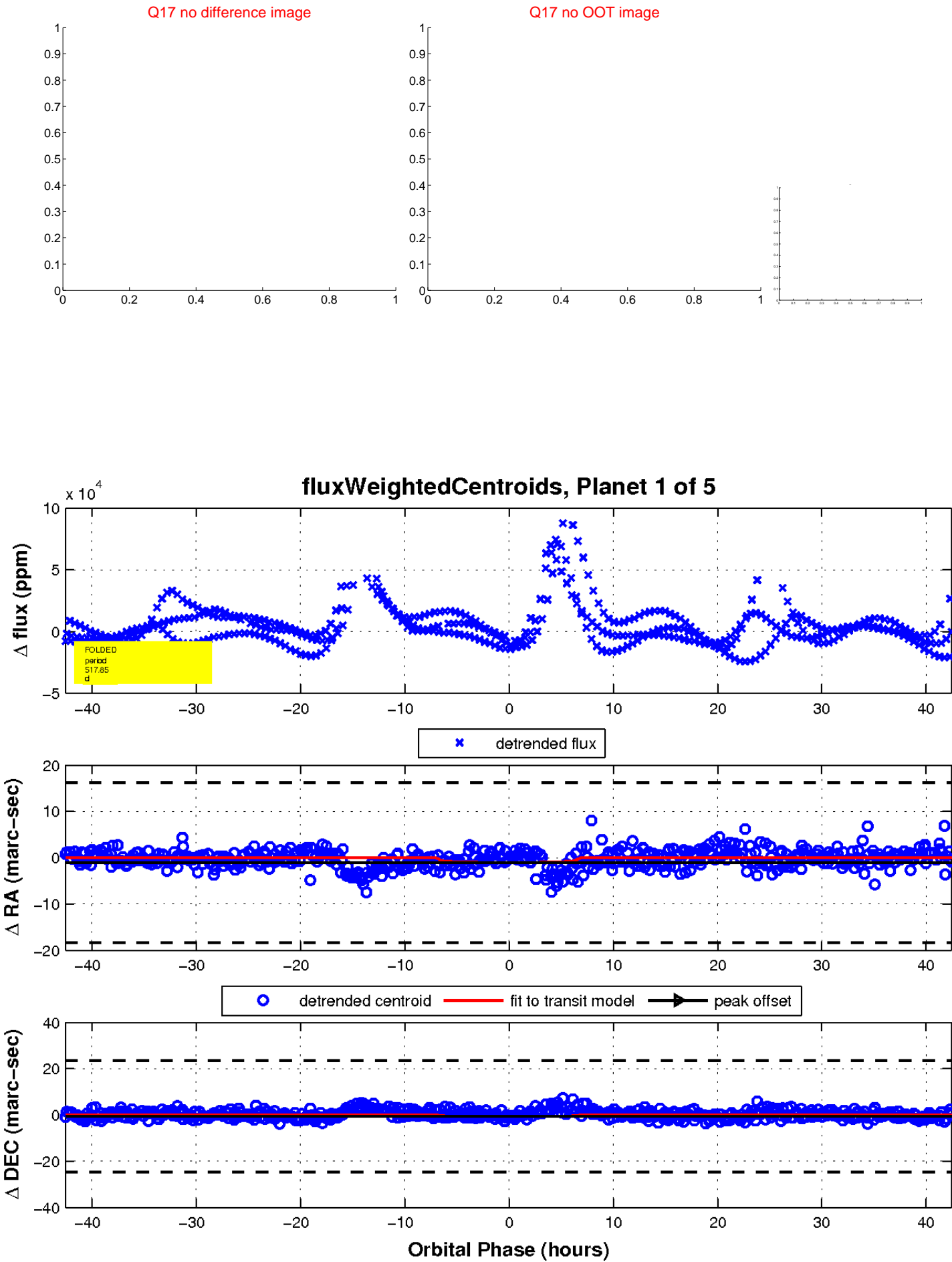
Q16 no difference image



Q16 no OOT image

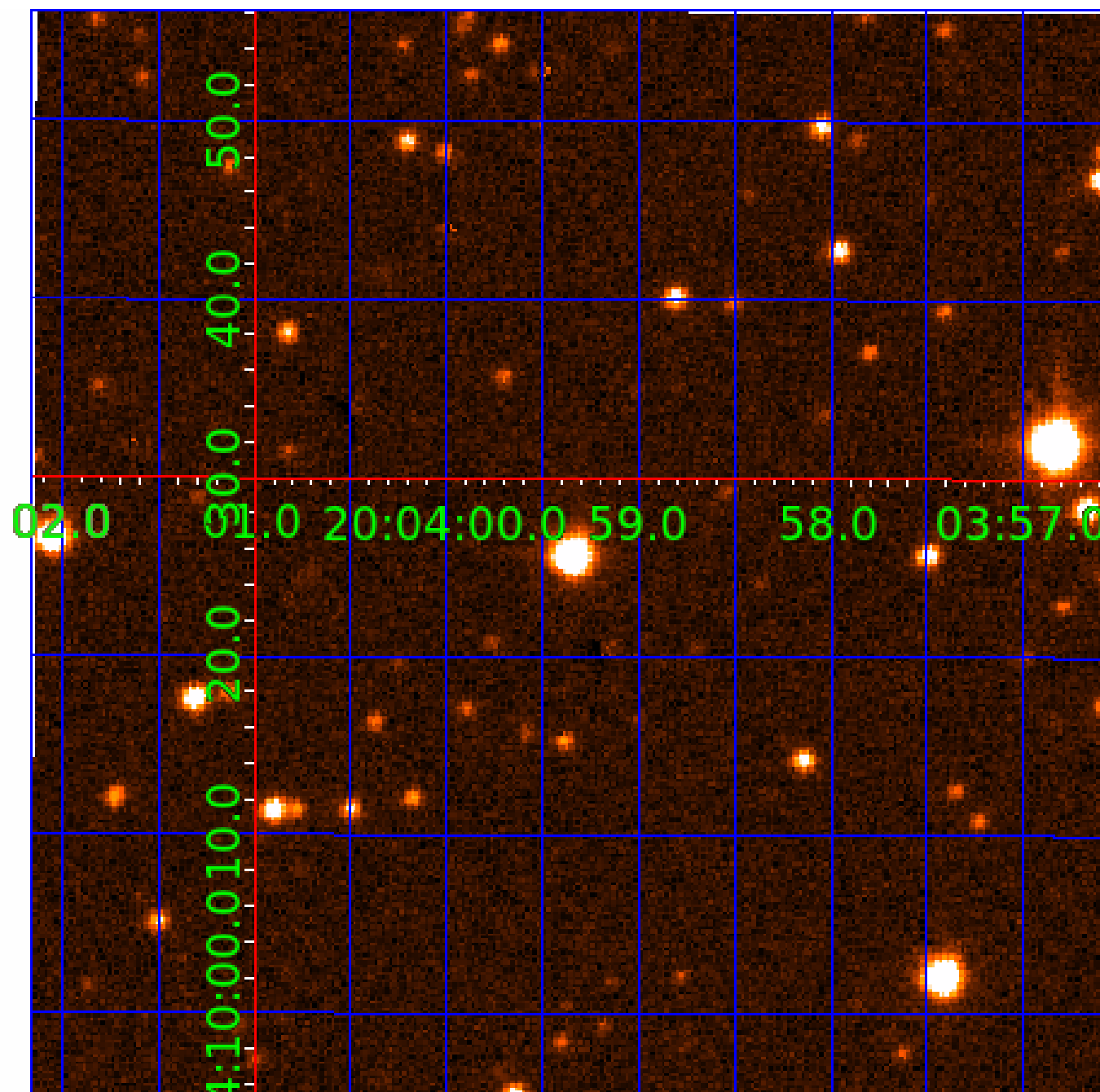


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264617

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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Robovetter Results

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008264617-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
008264617-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
008264617-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264617-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

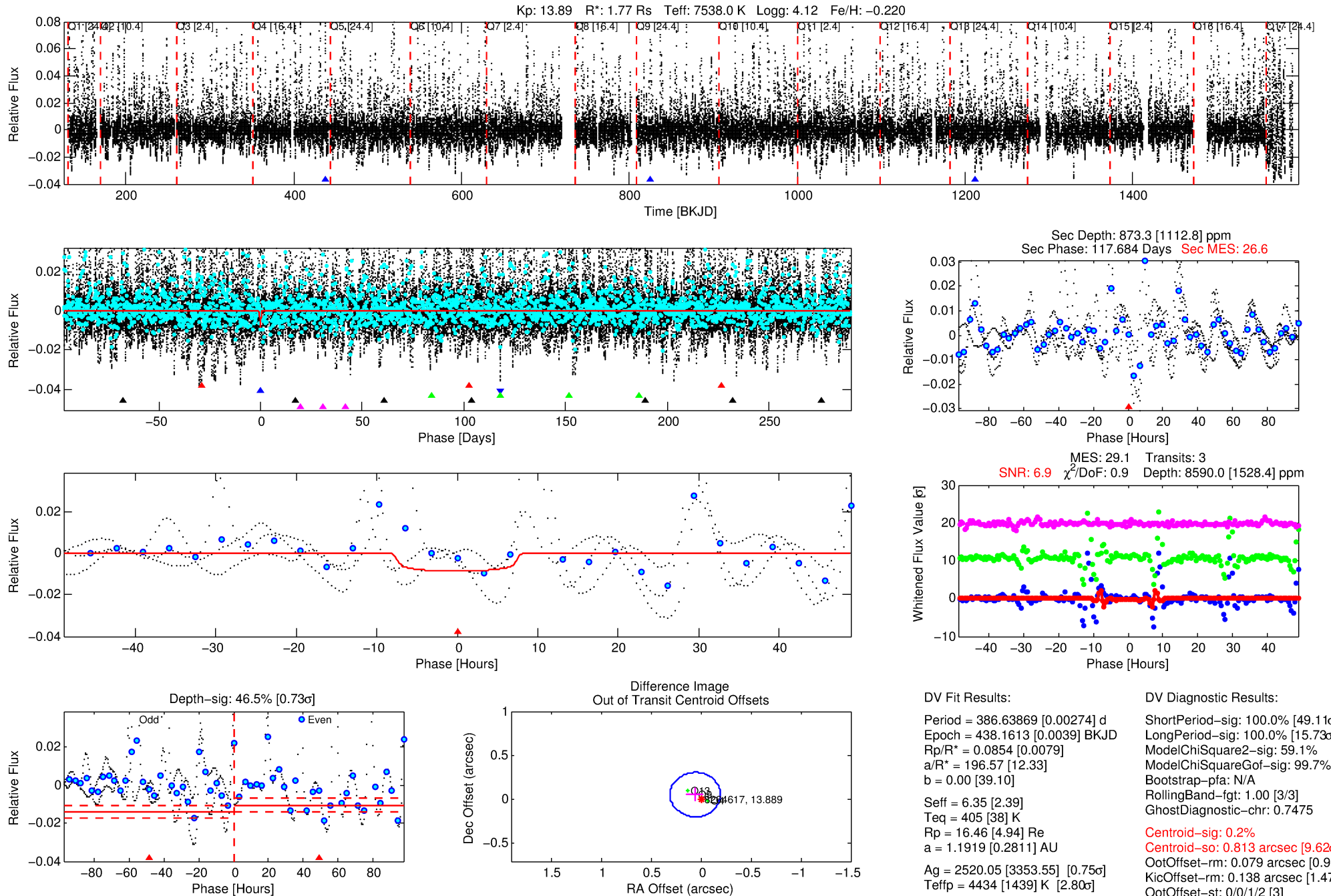
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264617-02

No Significant Match Found

DV One-Page Summary

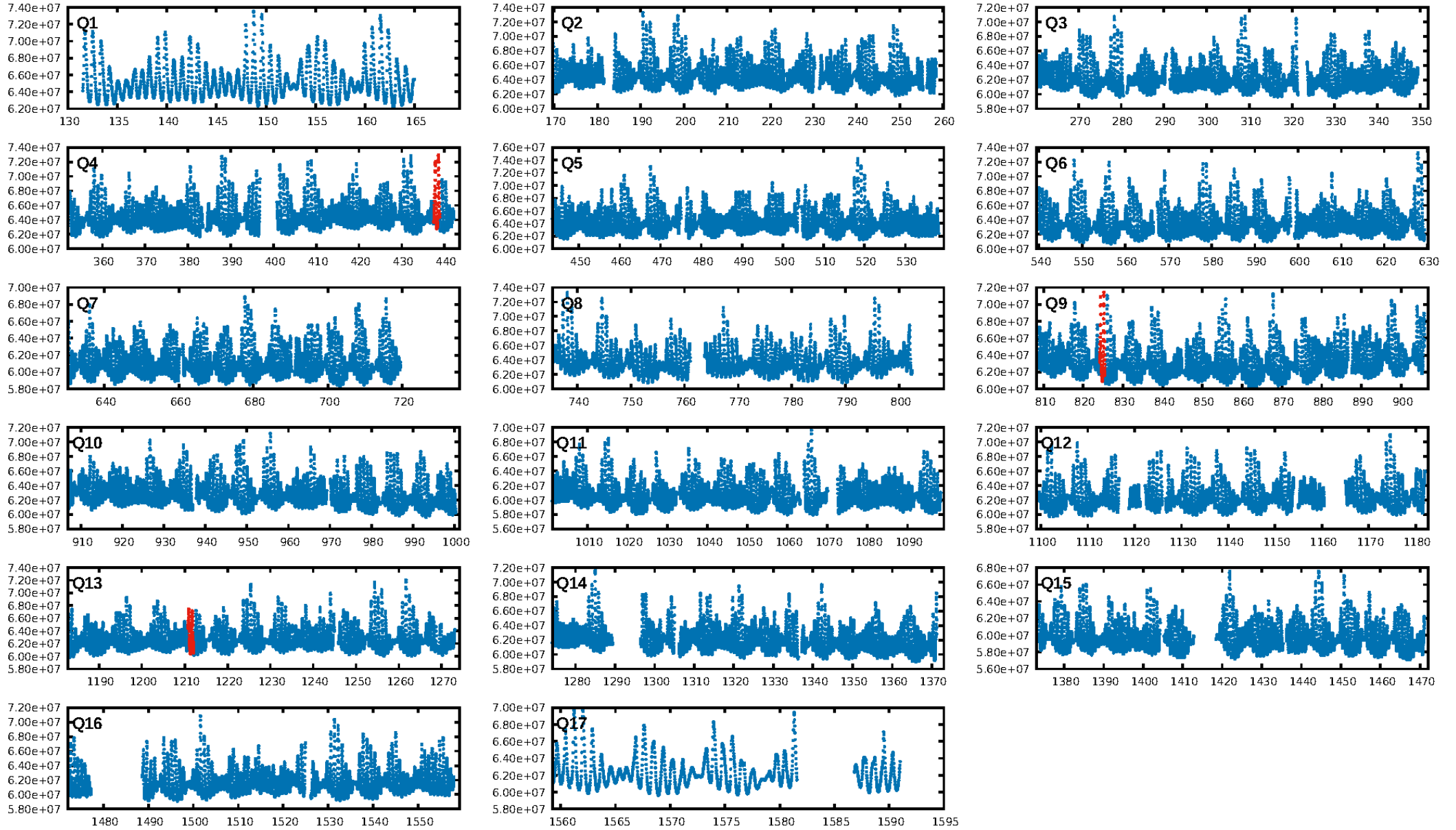
KIC: 8264617 Candidate: 2 of 5 Period: 386.639 d



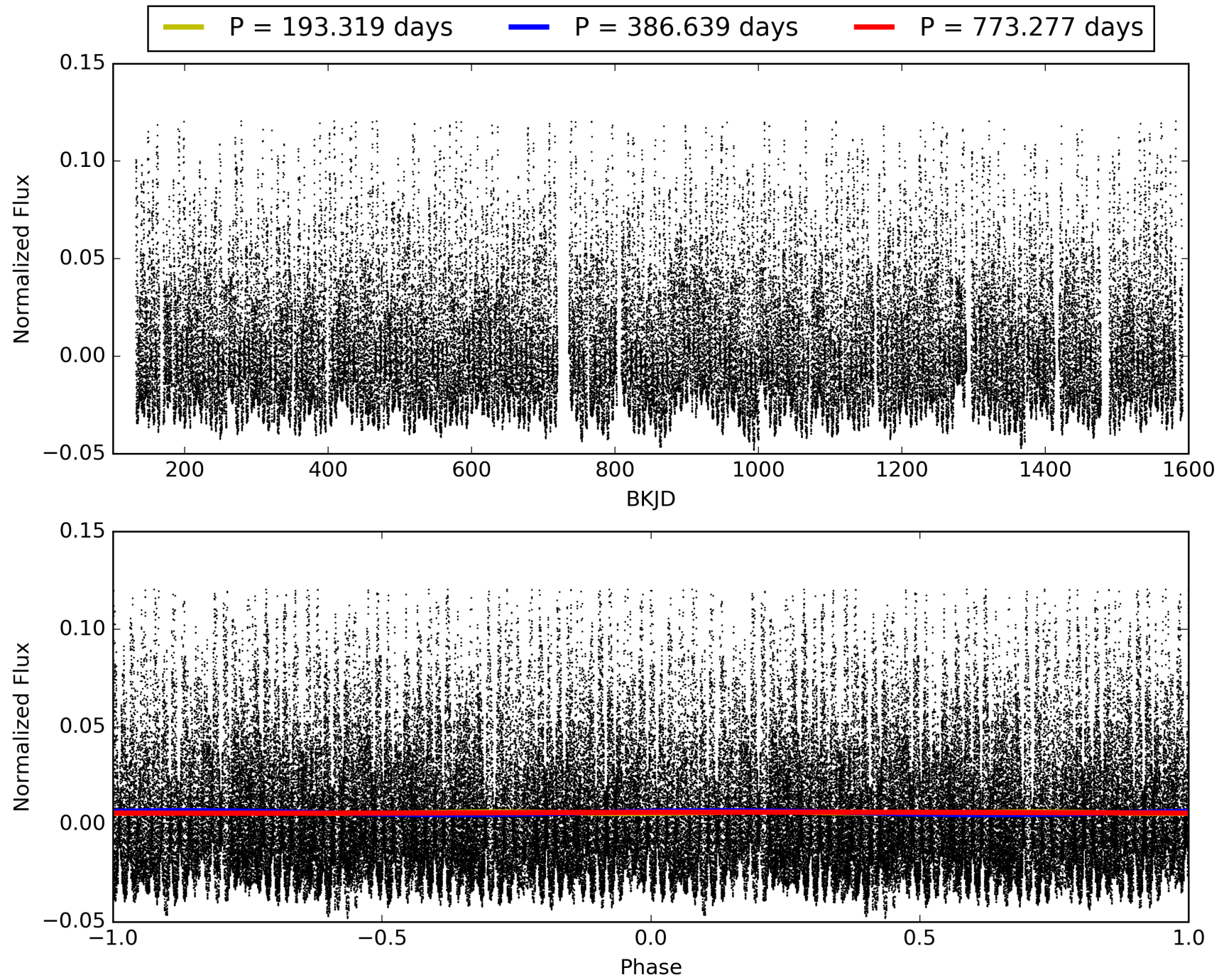
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:48:35 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264617-02, PDC Light Curves

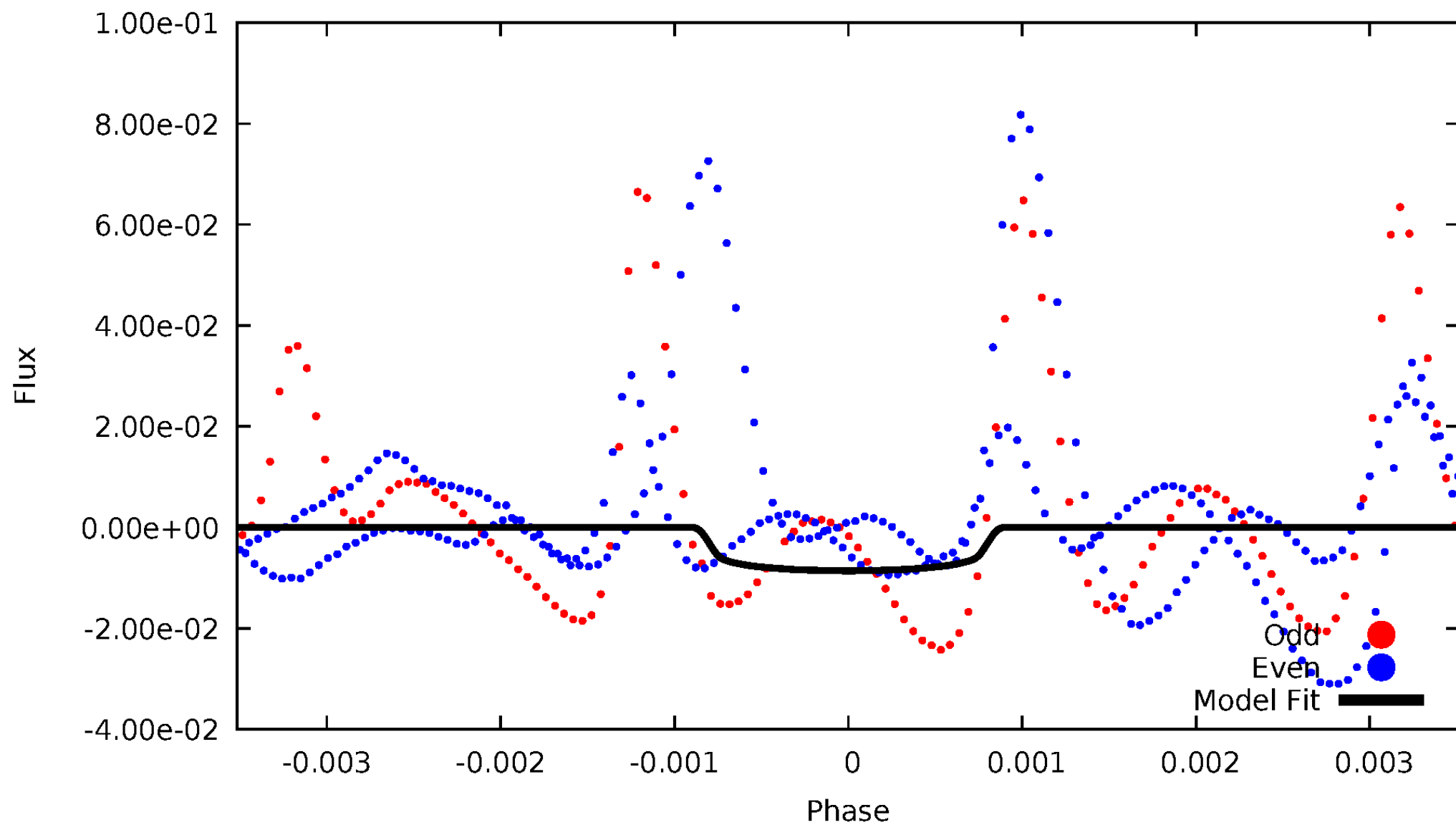


TCE 008264617-02



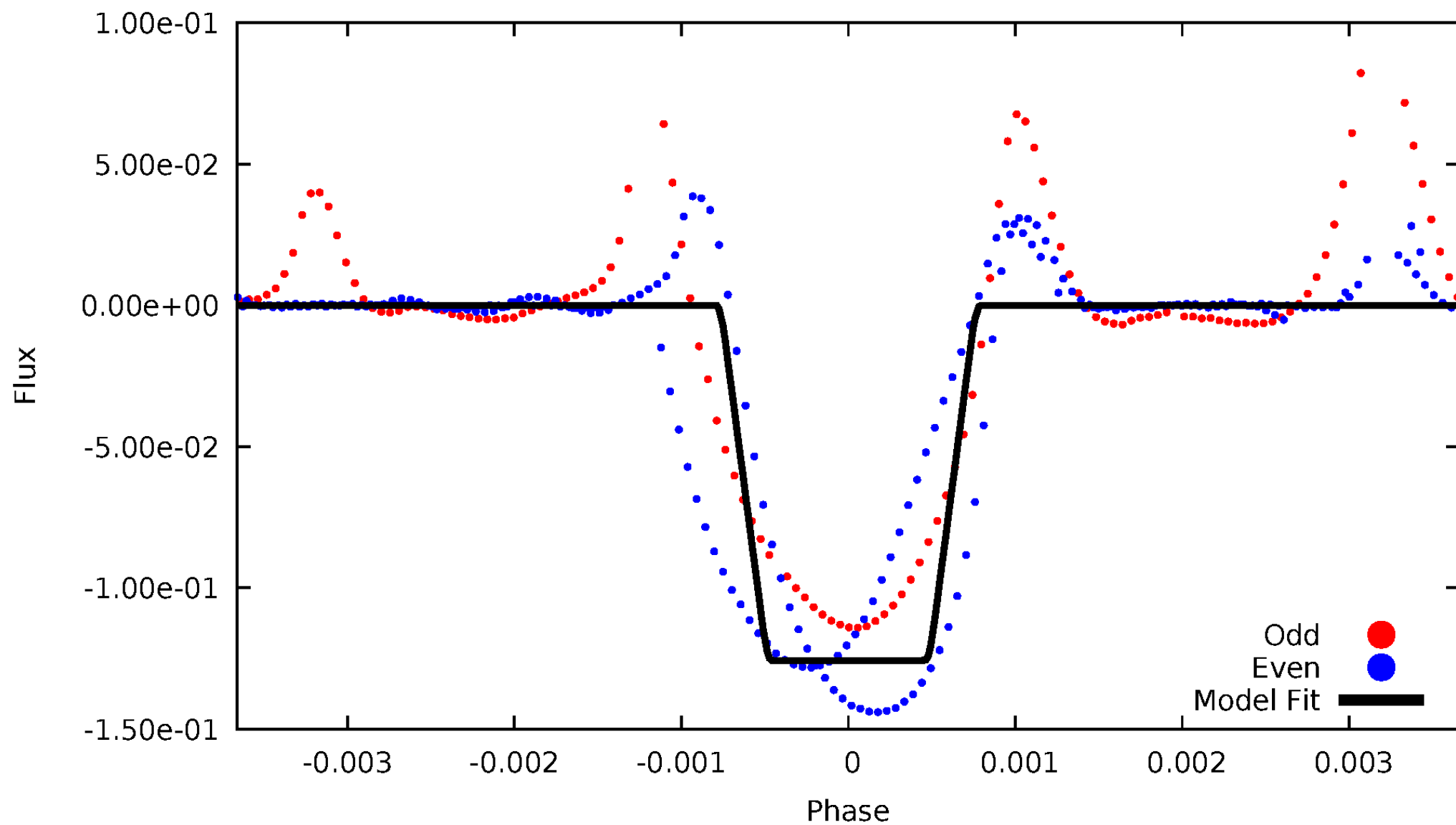
DV Odd/Even

TCE 008264617-02



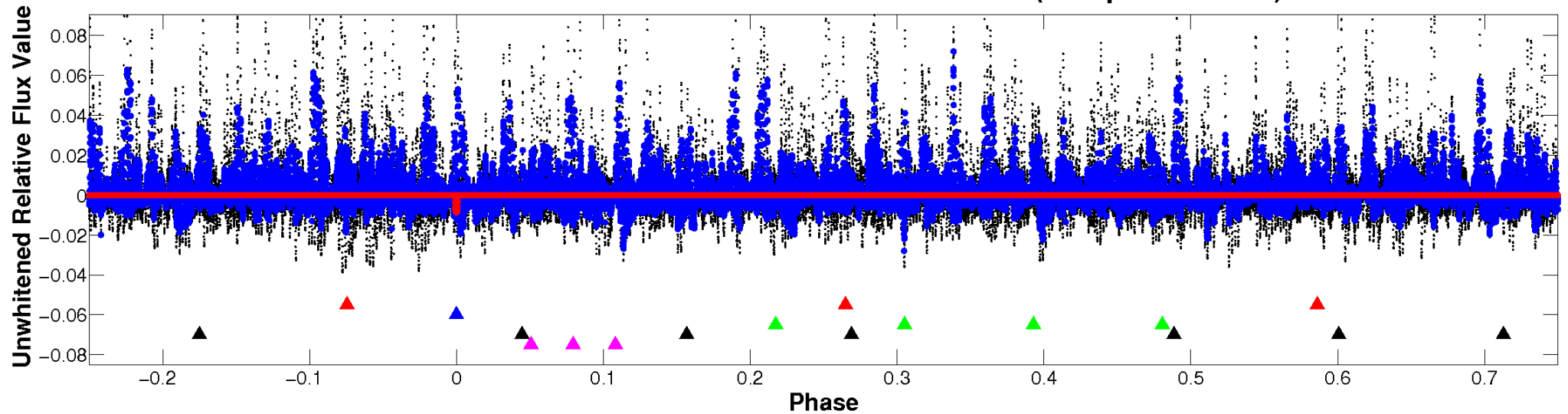
ALT Odd/Even

TCE 008264617-02

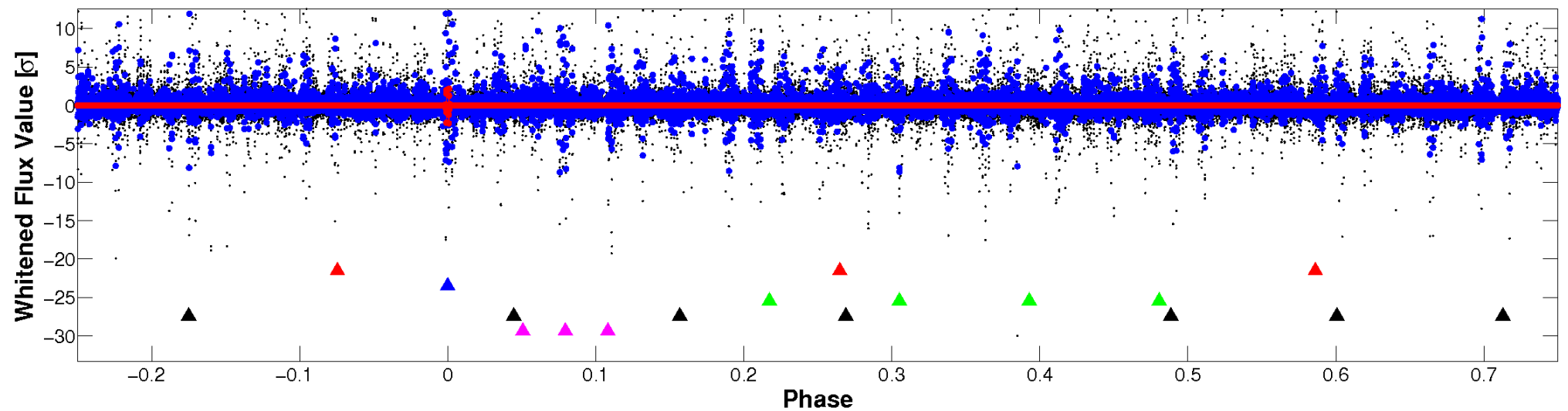


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

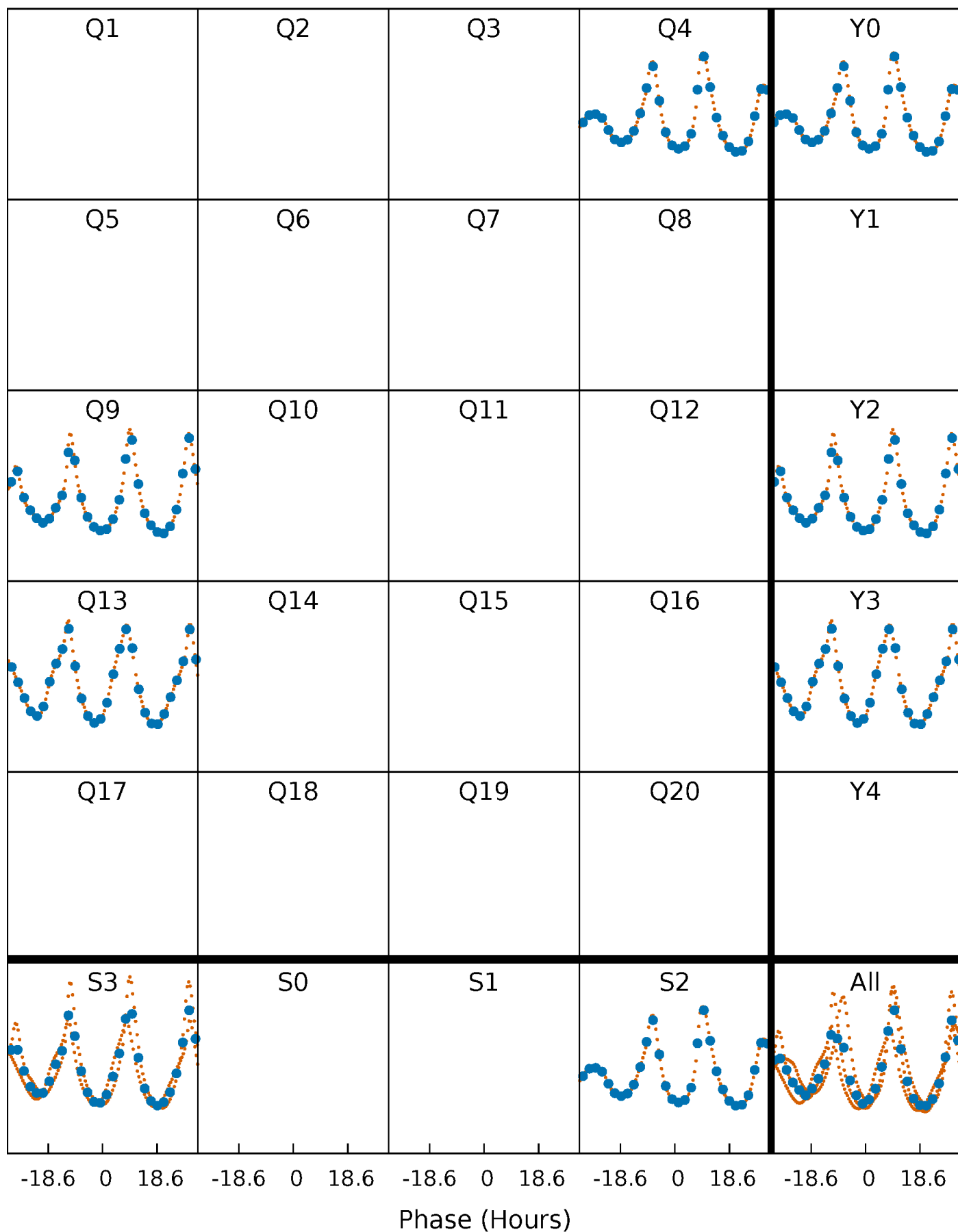


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



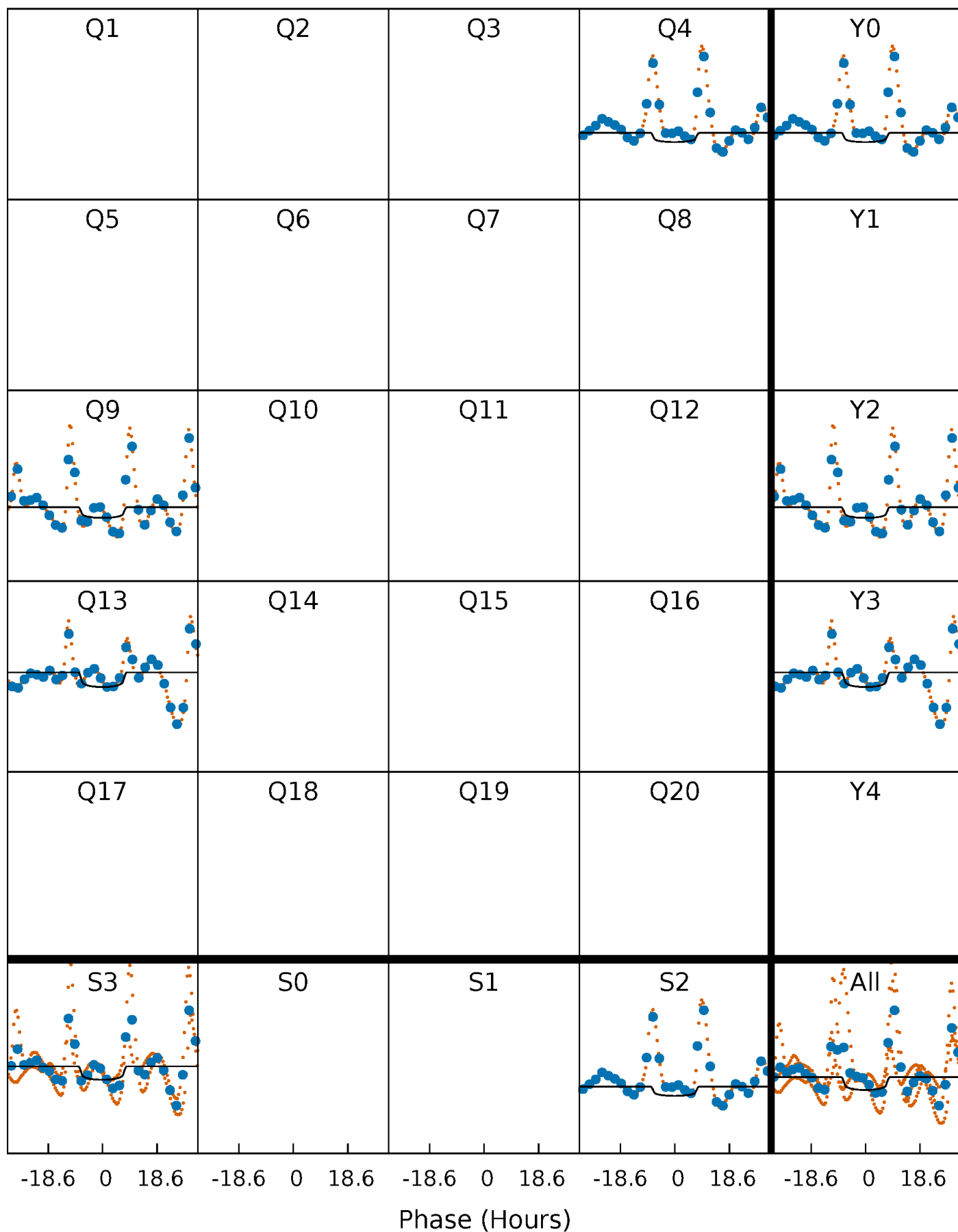
PDC Quarter-Phased Transit Curves

TCE 008264617-02 $P=386.638685$ Days $T_0=438.161312$ (BKJD)



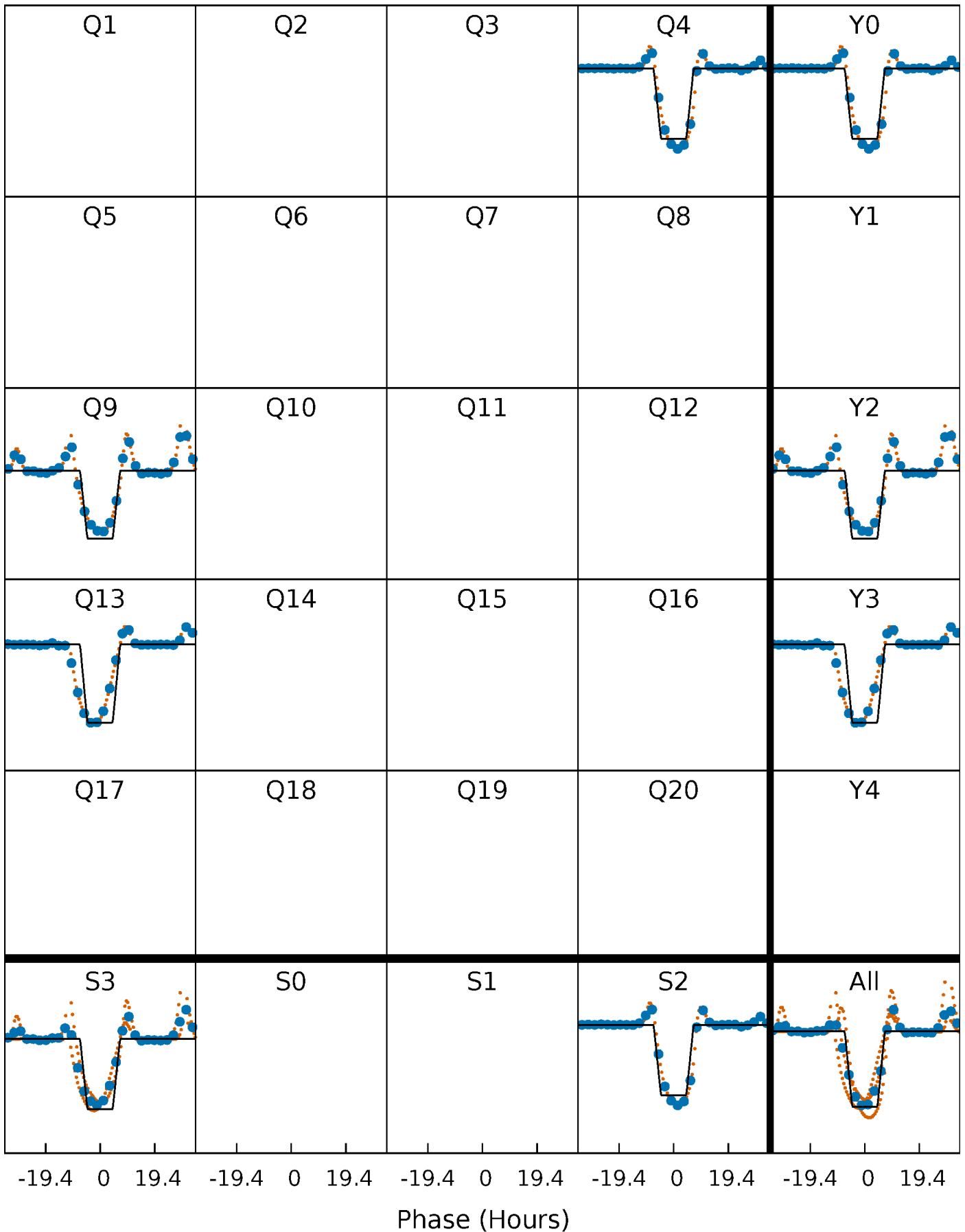
DV Quarter-Phased Transit Curves

TCE 008264617-02 $P=386.638685$ Days $T_0=438.161312$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

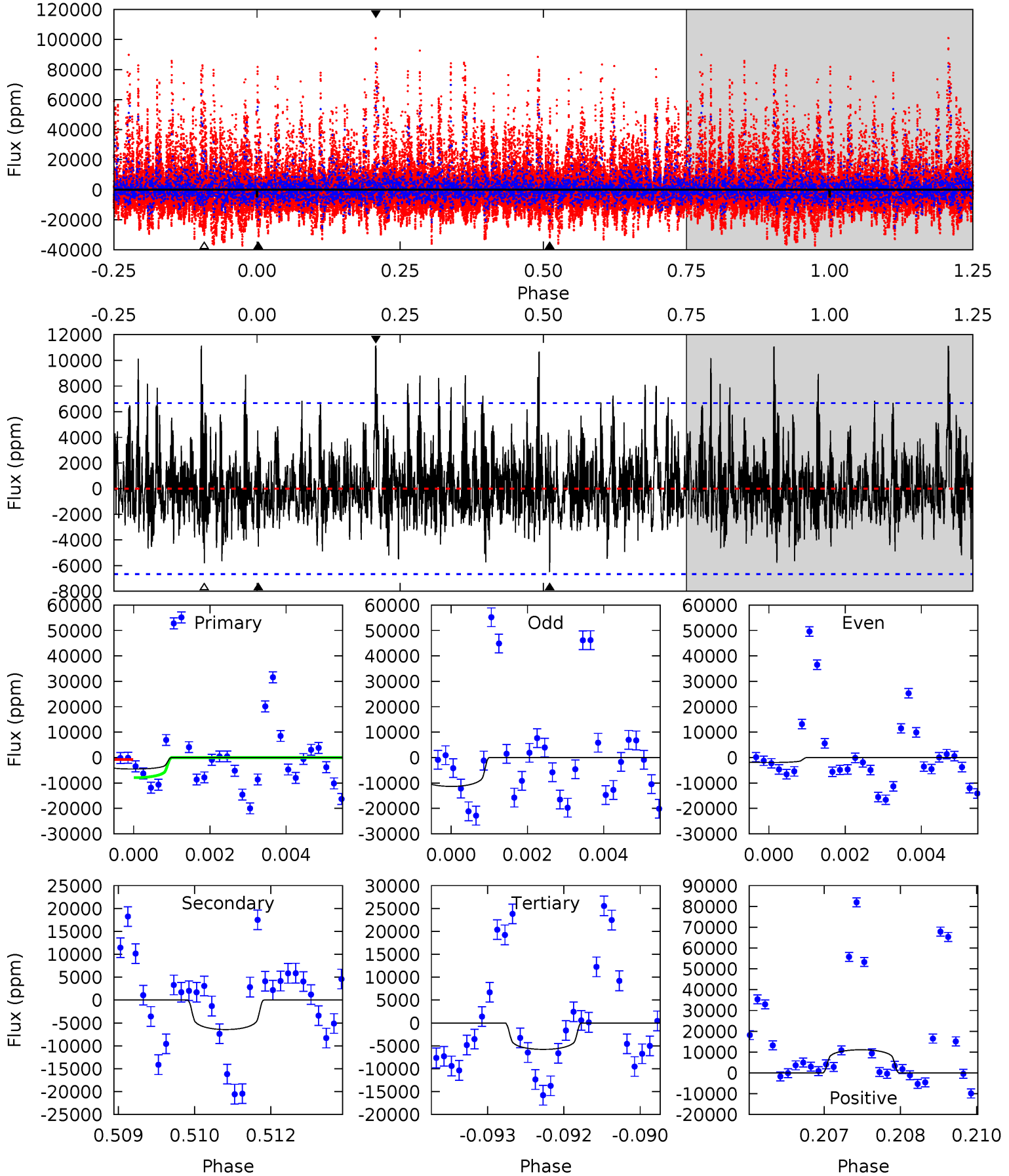
TCE 008264617-02 P=386.630200 Days $T_0=438.169601$ (BKJD)



DV Model-Shift Uniqueness Test

008264617-02, P = 386.638685 Days, E = 51.522627 Days

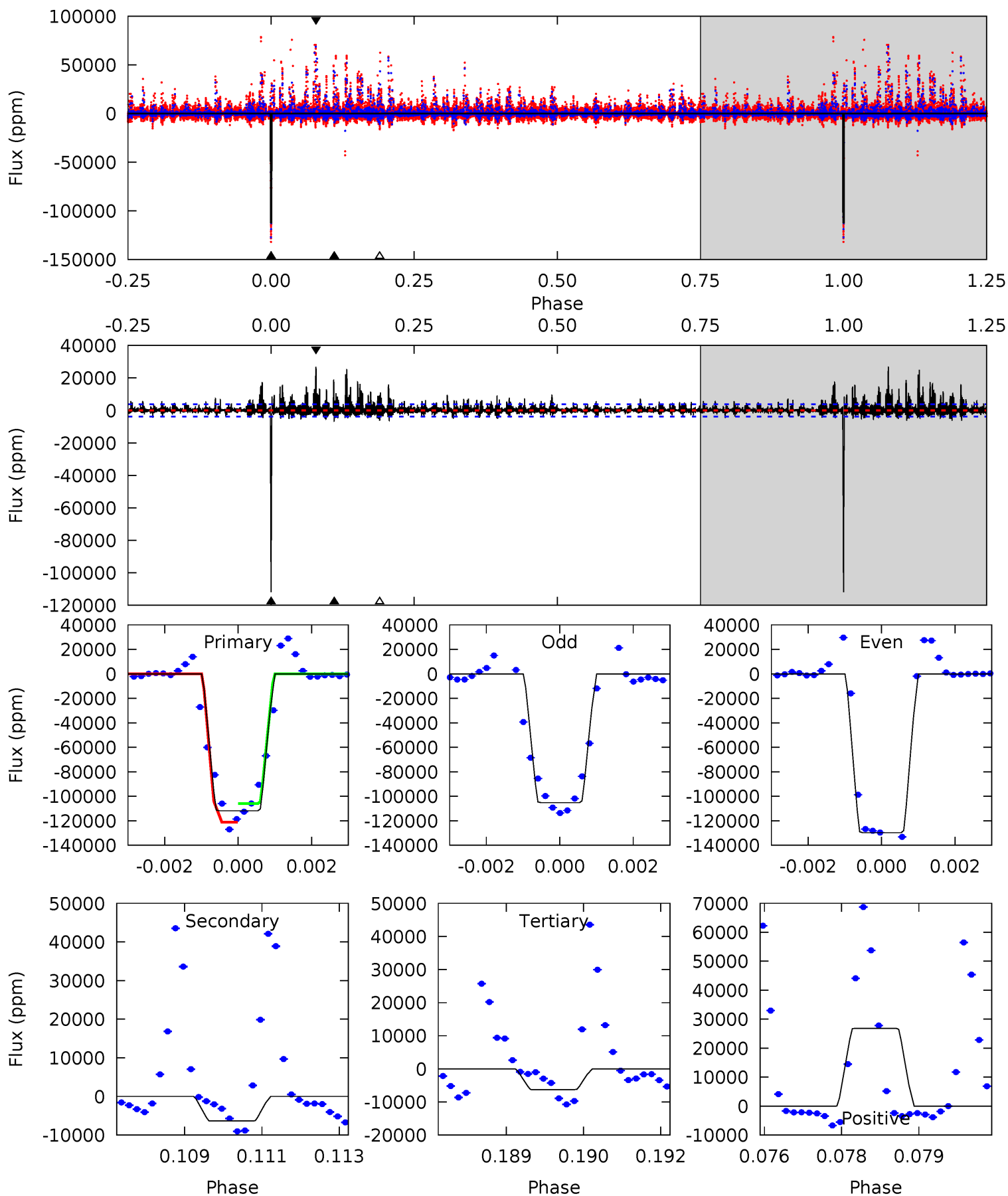
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.61	5.17	4.64	8.92	5.35	3.12	1.86	-1.02	-5.30	0.53	-3.75	3.17	0.67	0.63	2.87



Alt Model-Shift Uniqueness Test

008264617-02, P = 386.630200 Days, E = 51.539401 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
158.3	8.99	8.86	38.0	5.37	3.16	3.06	149.4	120.3	0.13	-29.0	16.5	1.06	0.19	10.4



Stellar Parameters For KIC 008264617

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7538^{+237}_{-316}	$4.123^{+0.148}_{-0.181}$	$-0.220^{+0.250}_{-0.350}$	$1.766^{+0.505}_{-0.413}$	$1.510^{+0.219}_{-0.241}$	$0.386^{+0.345}_{-0.183}$
	+3%/-4%	+4%/-4%	+114%/-159%	+29%/-23%	+15%/-16%	+89%/-47%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264617-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-6441 ± 1246	$16.55^{+3.20}_{-2.37}$	565^{+49}_{-39}	7192^{+667}_{-585}	17926^{+8020}_{-6042}
Alt.	-6354 ± 707	$69.60^{+10.37}_{-8.83}$	570^{+43}_{-40}	3872^{+104}_{-129}	1017^{+314}_{-257}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

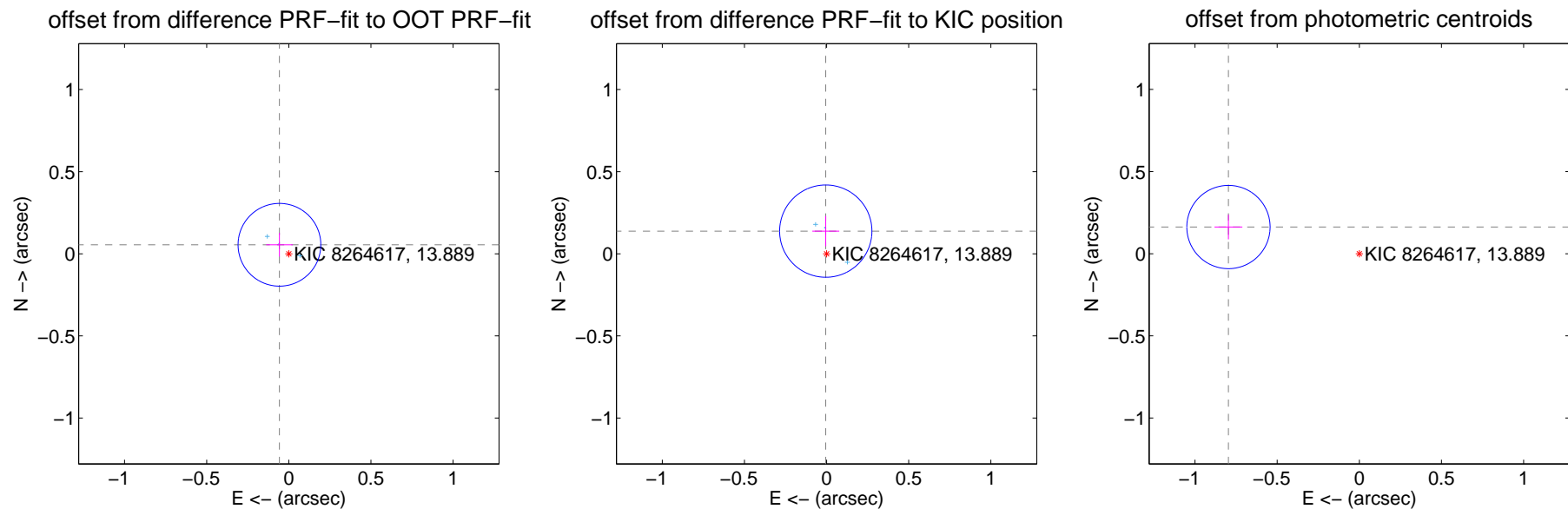
DV Centroid Data

Supplemental centroid analysis for 008264617-02. Kepler magnitude: 13.89. Transit SNR 6.89

There are 3 quarters with good PRF difference image offsets

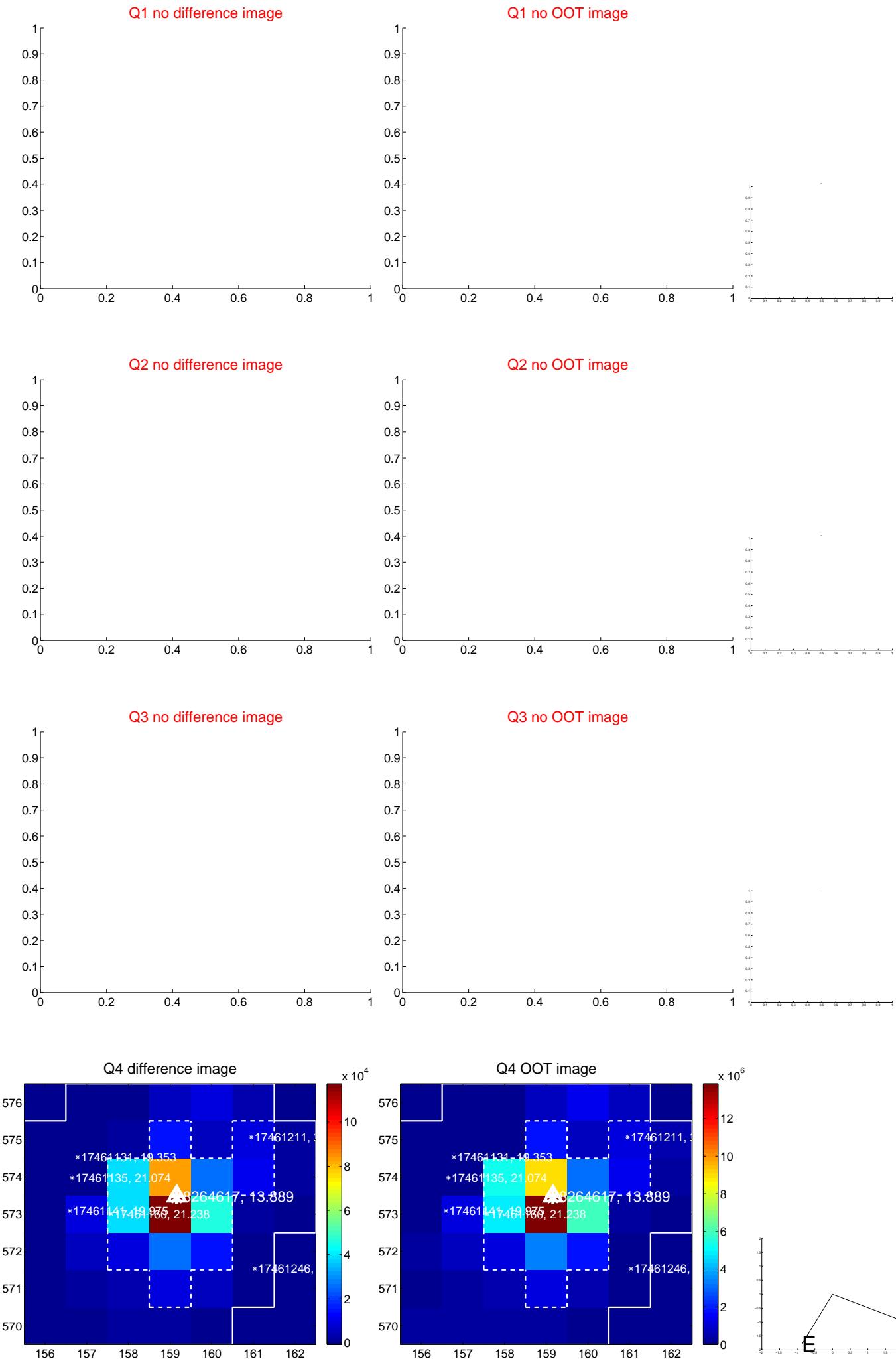
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.079 ± 0.084	0.94	0.057 ± 0.081	0.055 ± 0.072
PRF-fit source offset from KIC position	0.138 ± 0.094	1.47	0.005 ± 0.082	0.138 ± 0.092
photometric centroid source offset	0.81 ± 0.08	9.62	0.80 ± 0.08	0.16 ± 0.07



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

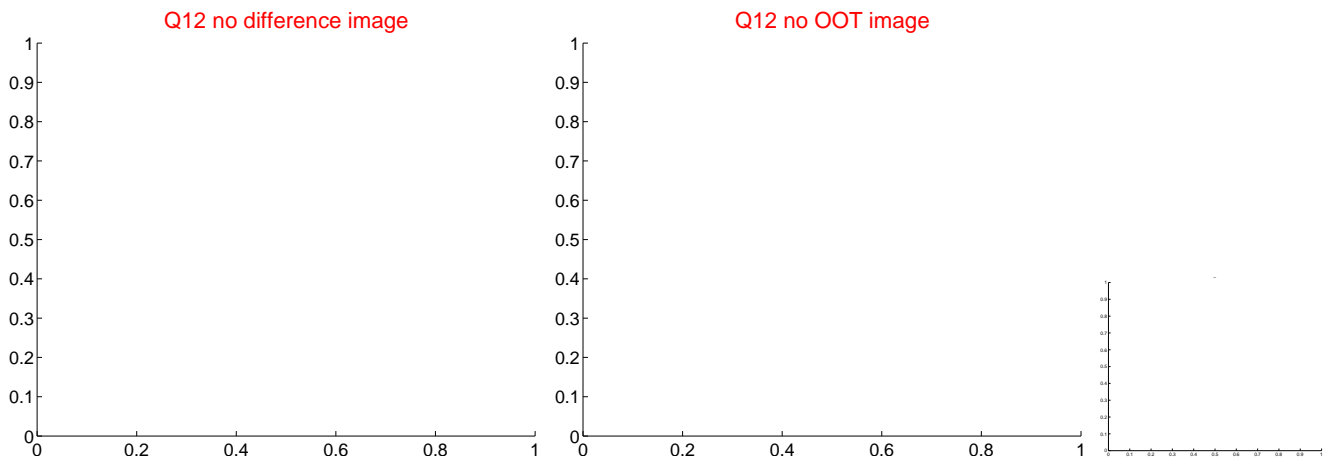
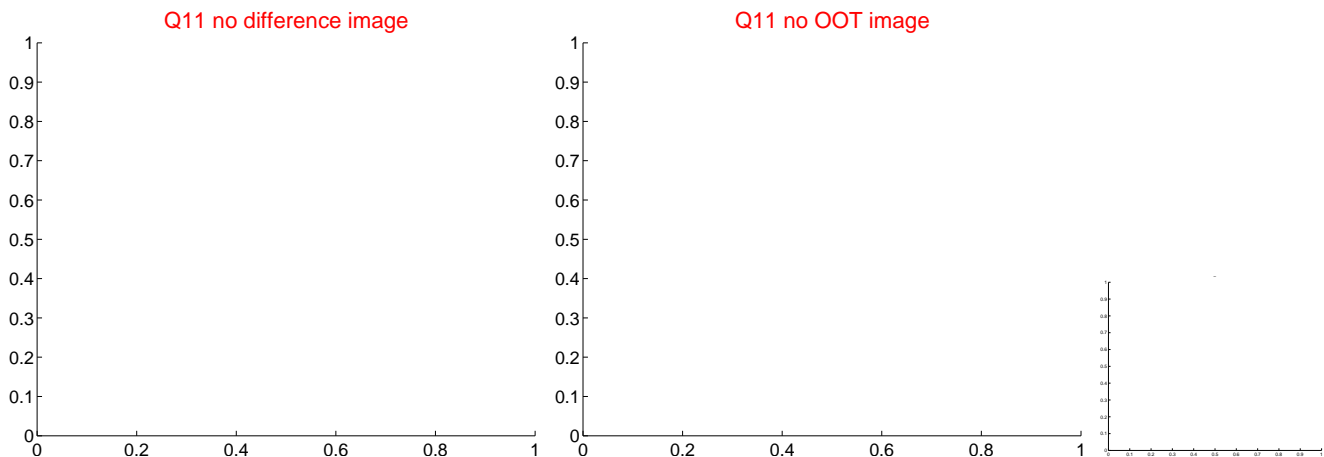
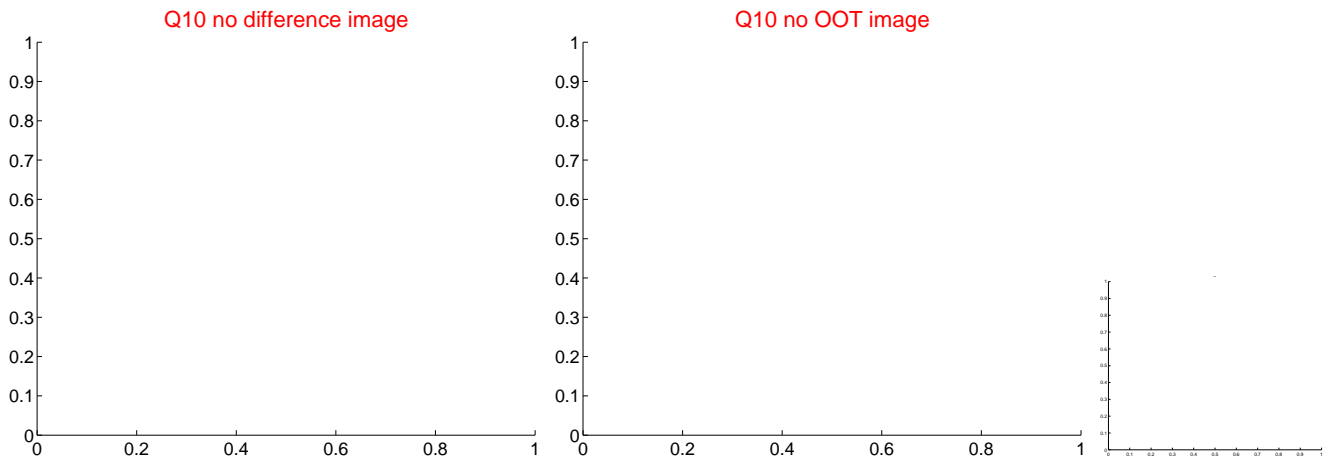
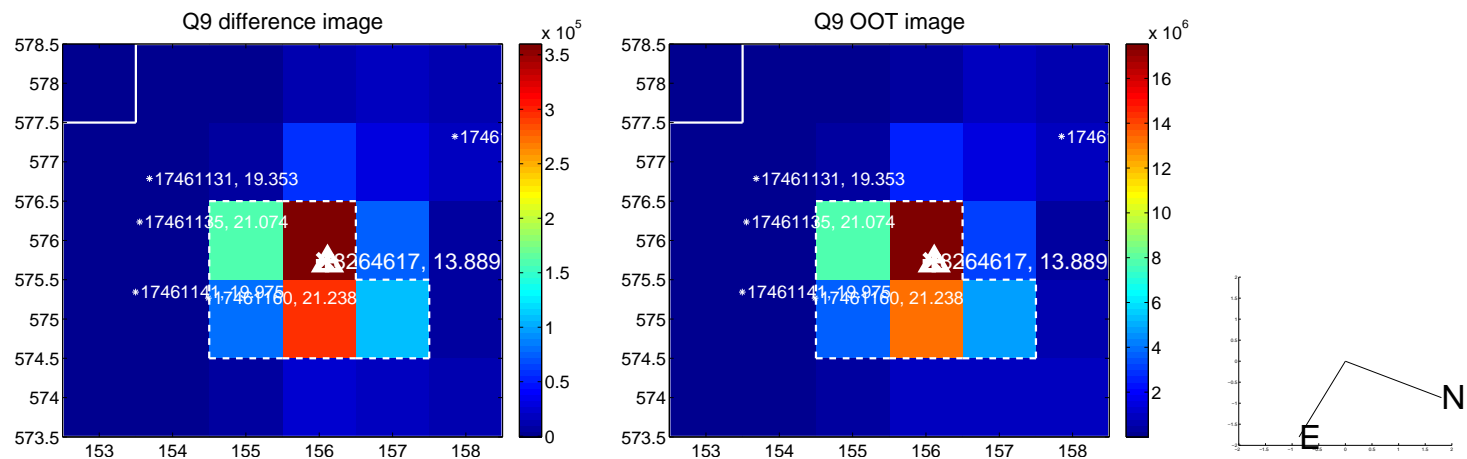
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



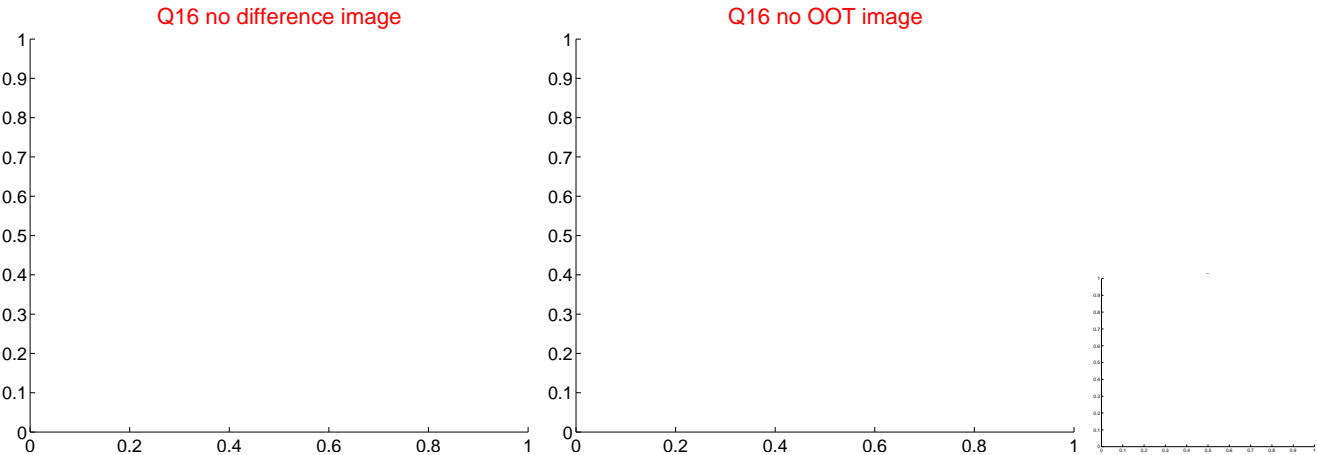
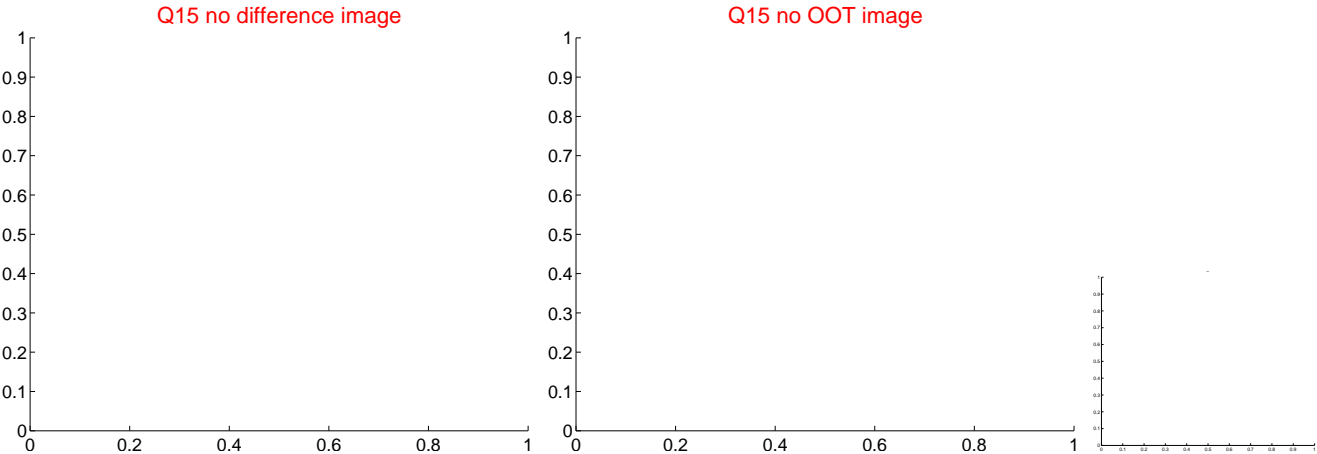
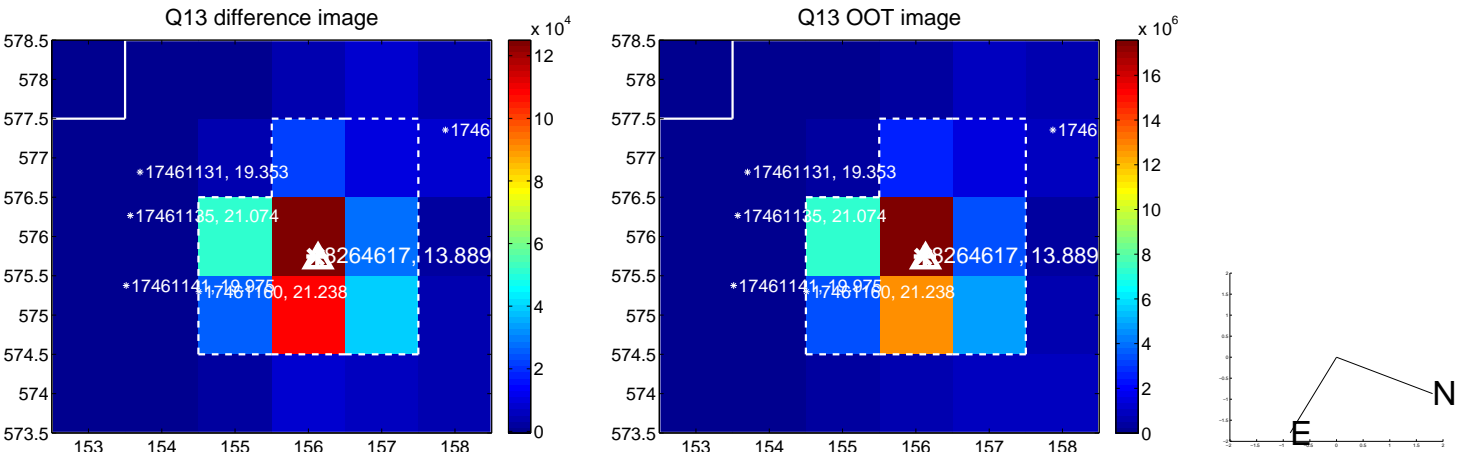
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



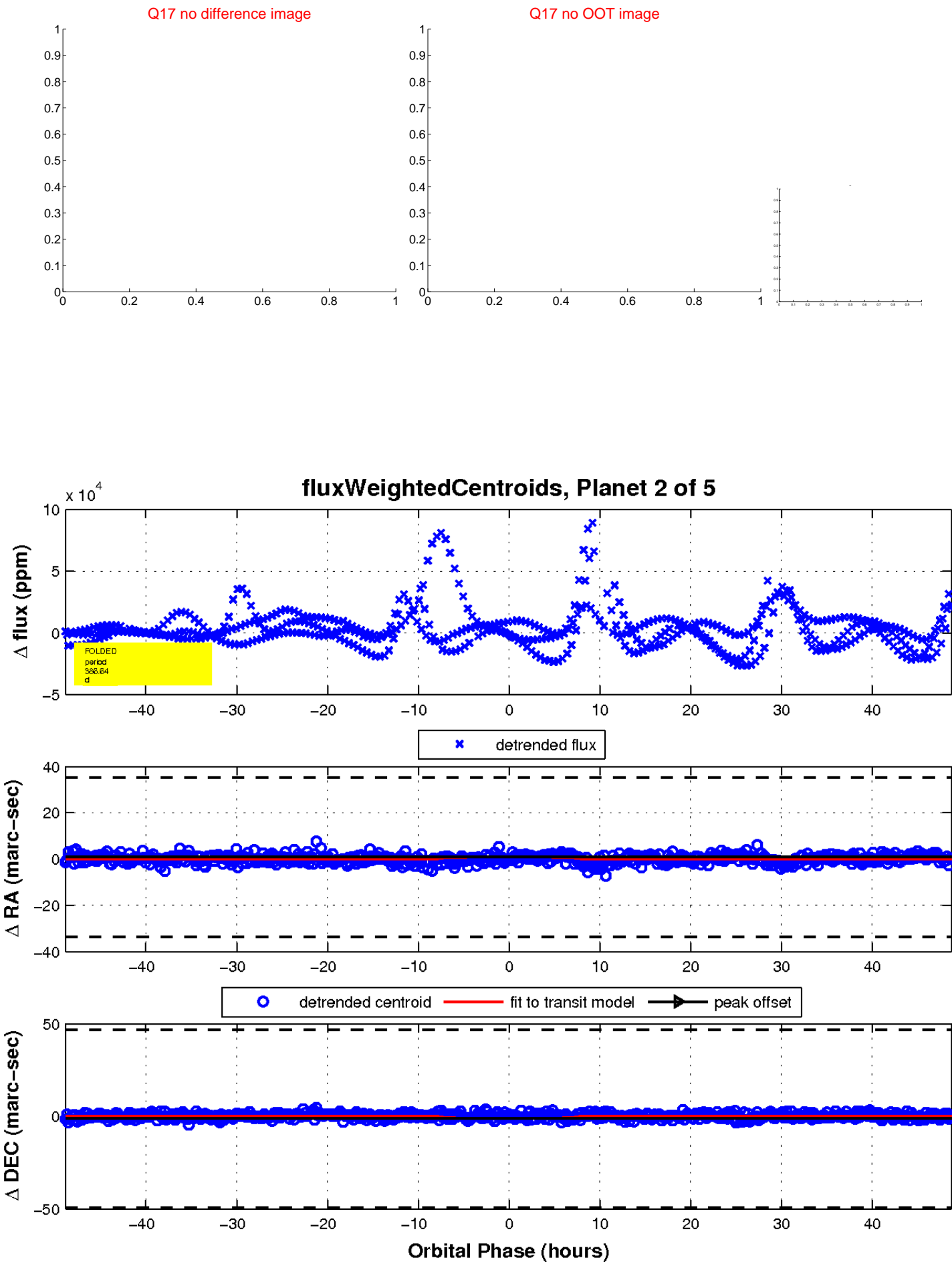
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

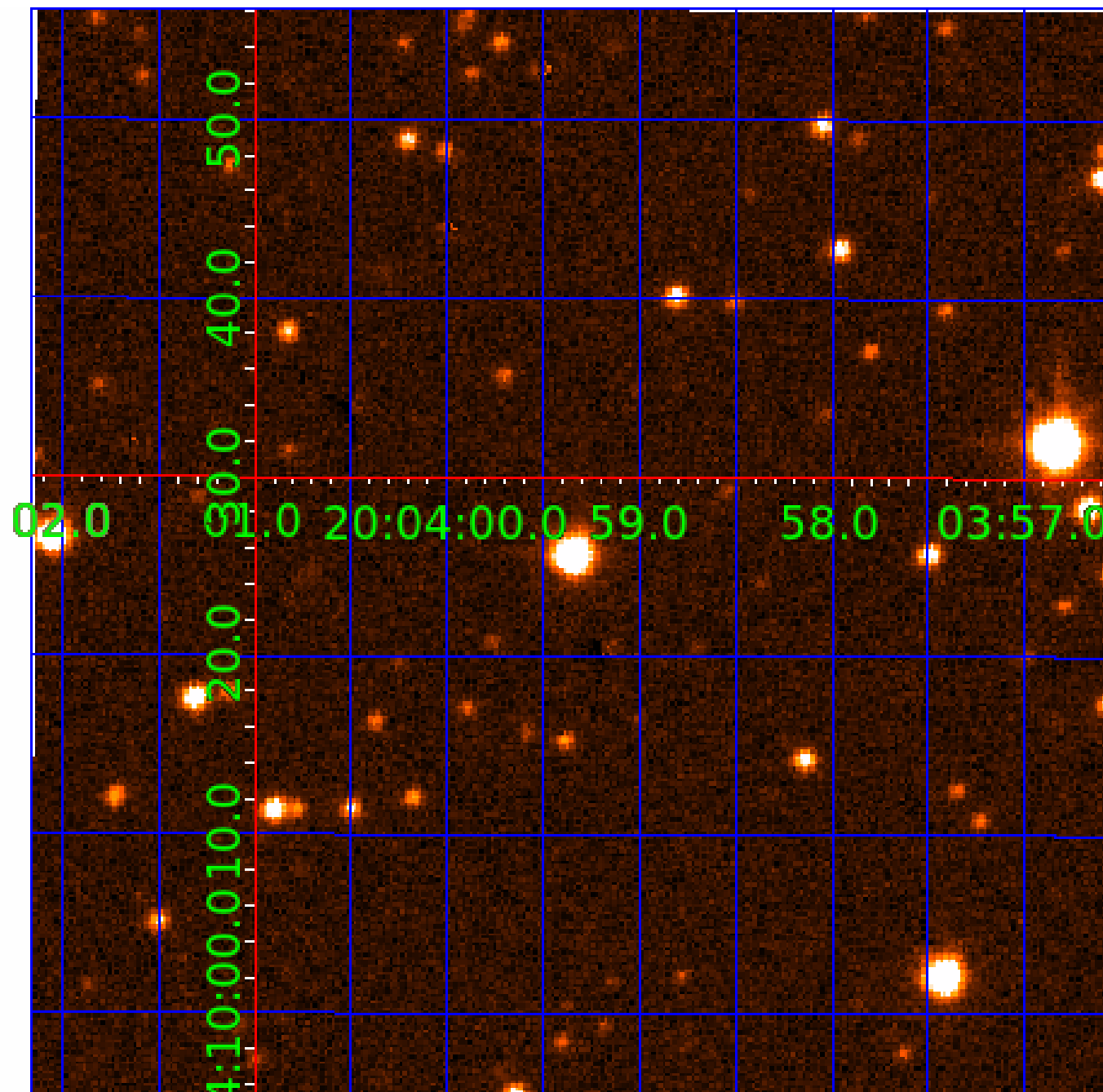


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264617

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
008264617-01	OBS	No	517.851323	278.152414	3594.9	14.178	29.3	3.1	1.77	7538	10.66	4.30
008264617-02	OBS	No	386.638685	438.161312	8590.0	16.310	29.1	6.9	1.77	7538	16.46	6.35
008264617-03	OBS	No	352.703184	237.363302	2010.0	3.000	25.8	-1.0	1.77	7538	7.97	7.18
008264617-04	OBS	No	215.001184	240.420873	569.3	2.033	21.8	2.0	1.77	7538	4.34	13.89
008264617-05	OBS	No	397.741702	457.790136	1497.1	4.589	22.3	1.7	1.77	7538	8.46	6.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264617-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264617-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
008264617-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
008264617-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264617-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

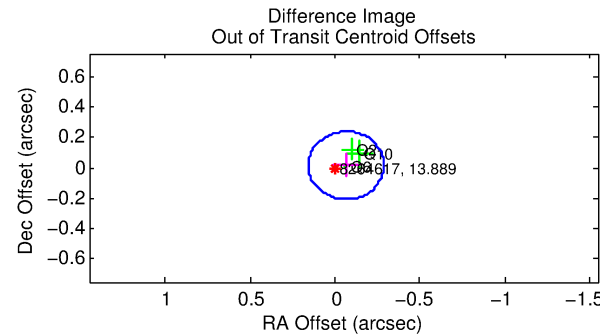
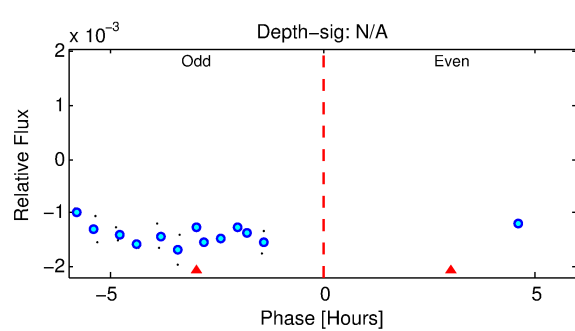
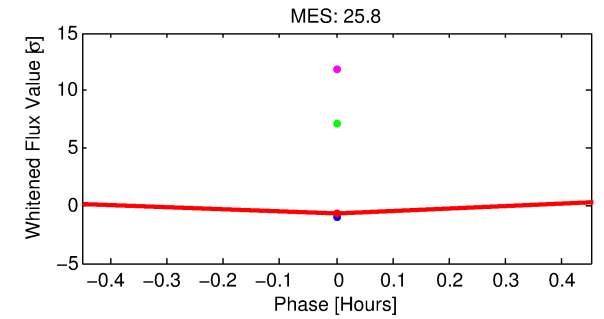
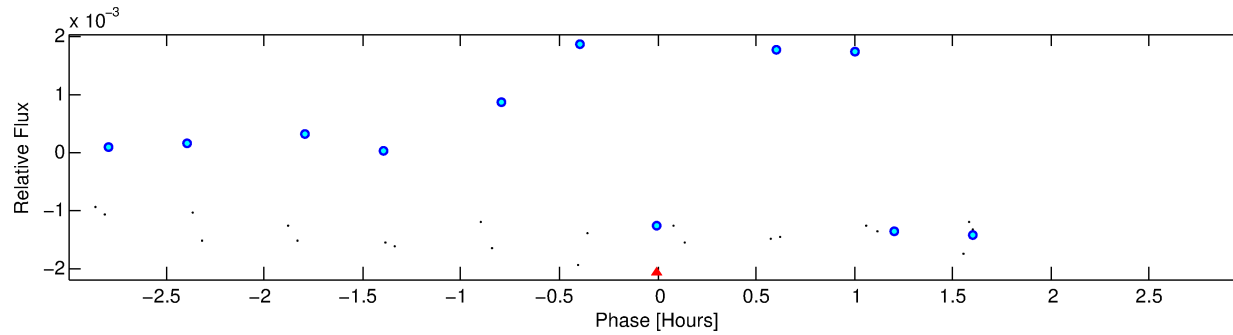
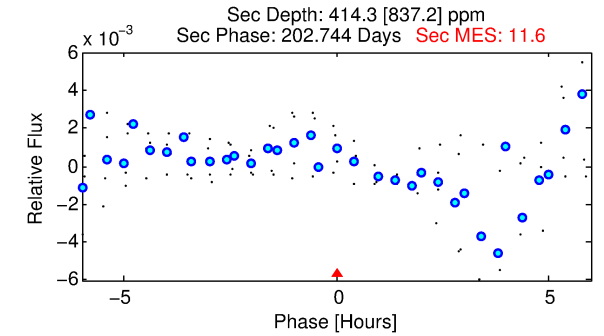
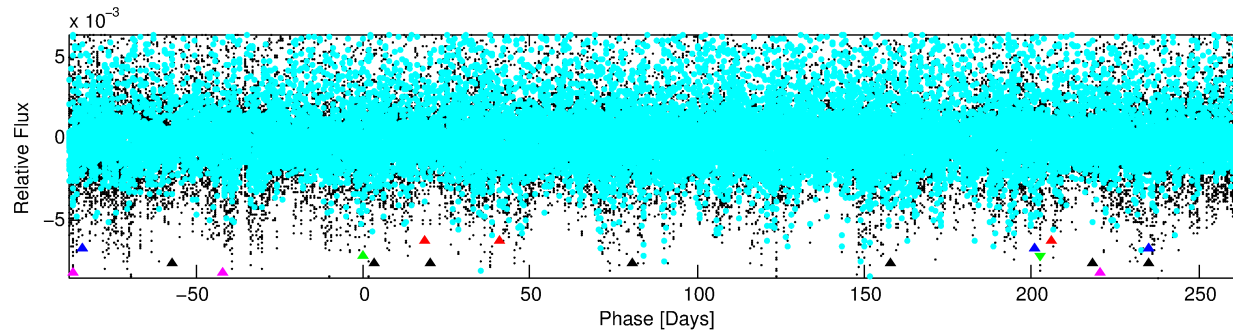
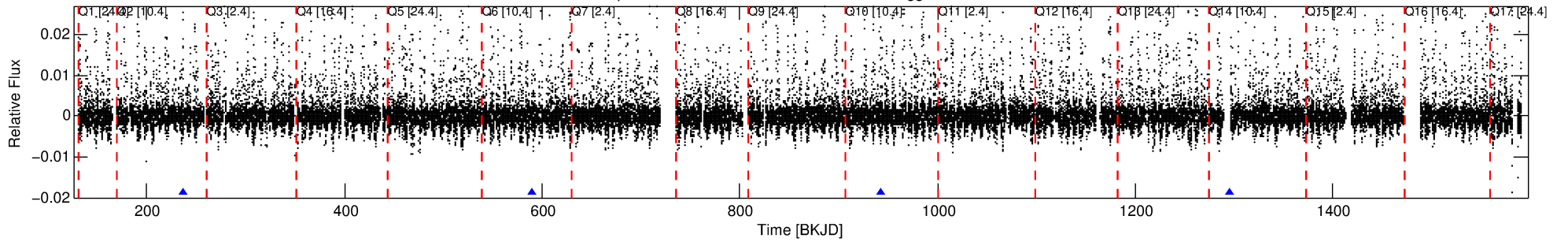
Ephemeris Match Information For 008264617-03

No Significant Match Found

DV One-Page Summary

KIC: 8264617 Candidate: 3 of 5 Period: 352.703 d

Kp: 13.89 R*: 1.77 Rs Teff: 7538.0 K Logg: 4.12 Fe/H: -0.220



TPS TCE Results:

Period = 352.70318 d
Epoch = 237.3633 BKJD

DV fit results are unavailable

DV Diagnostic Results:

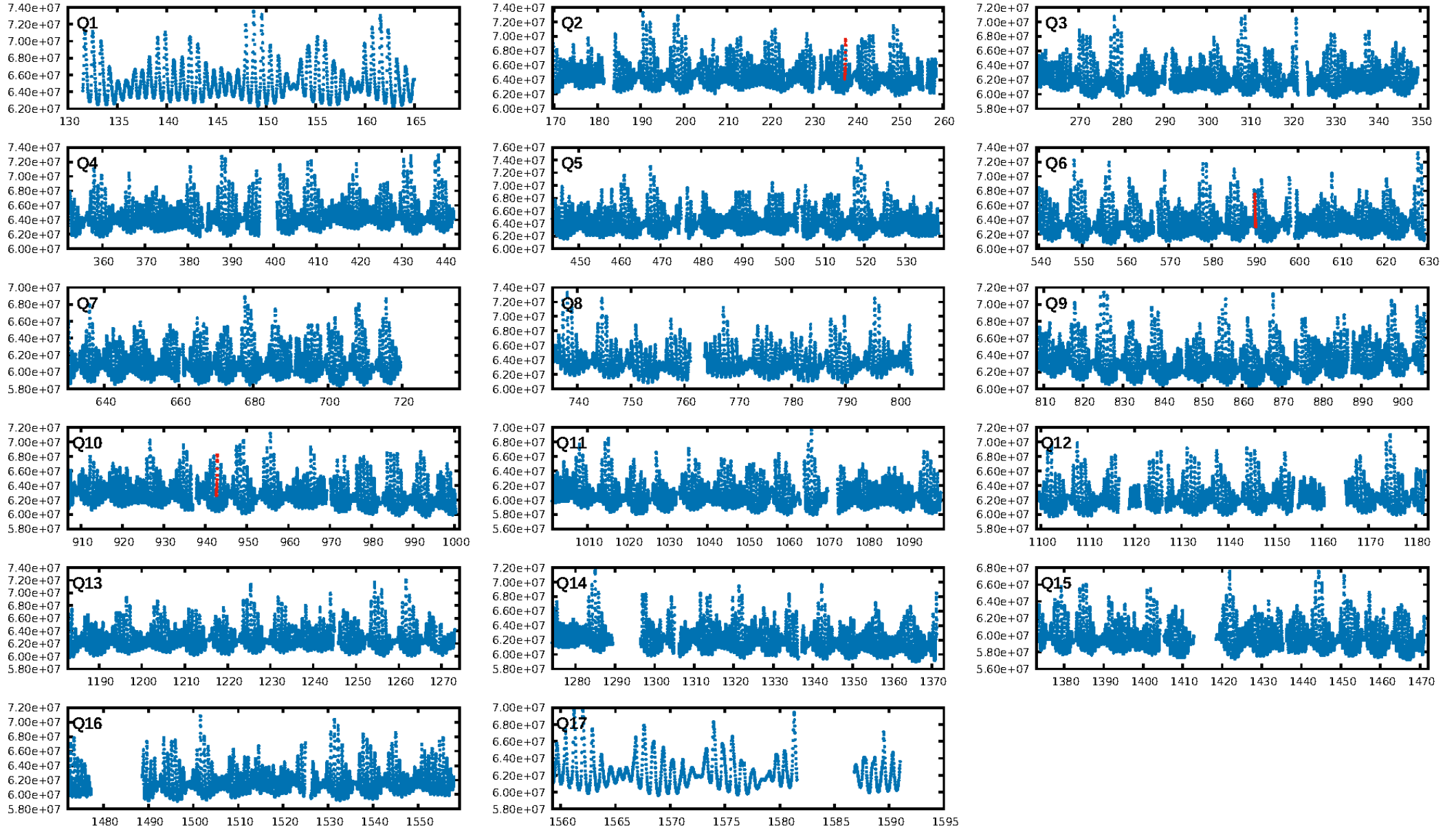
ShortPeriod-sig: 100.0% [911.91σ]
LongPeriod-sig: 100.0% [49.11σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.1463

Centroid-sig: 48.3%
Centroid-so: 9.438 arcsec [0.56σ]
OotOffset-rm: 0.066 arcsec [0.88σ]
KicOffset-rm: 0.213 arcsec [2.87σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

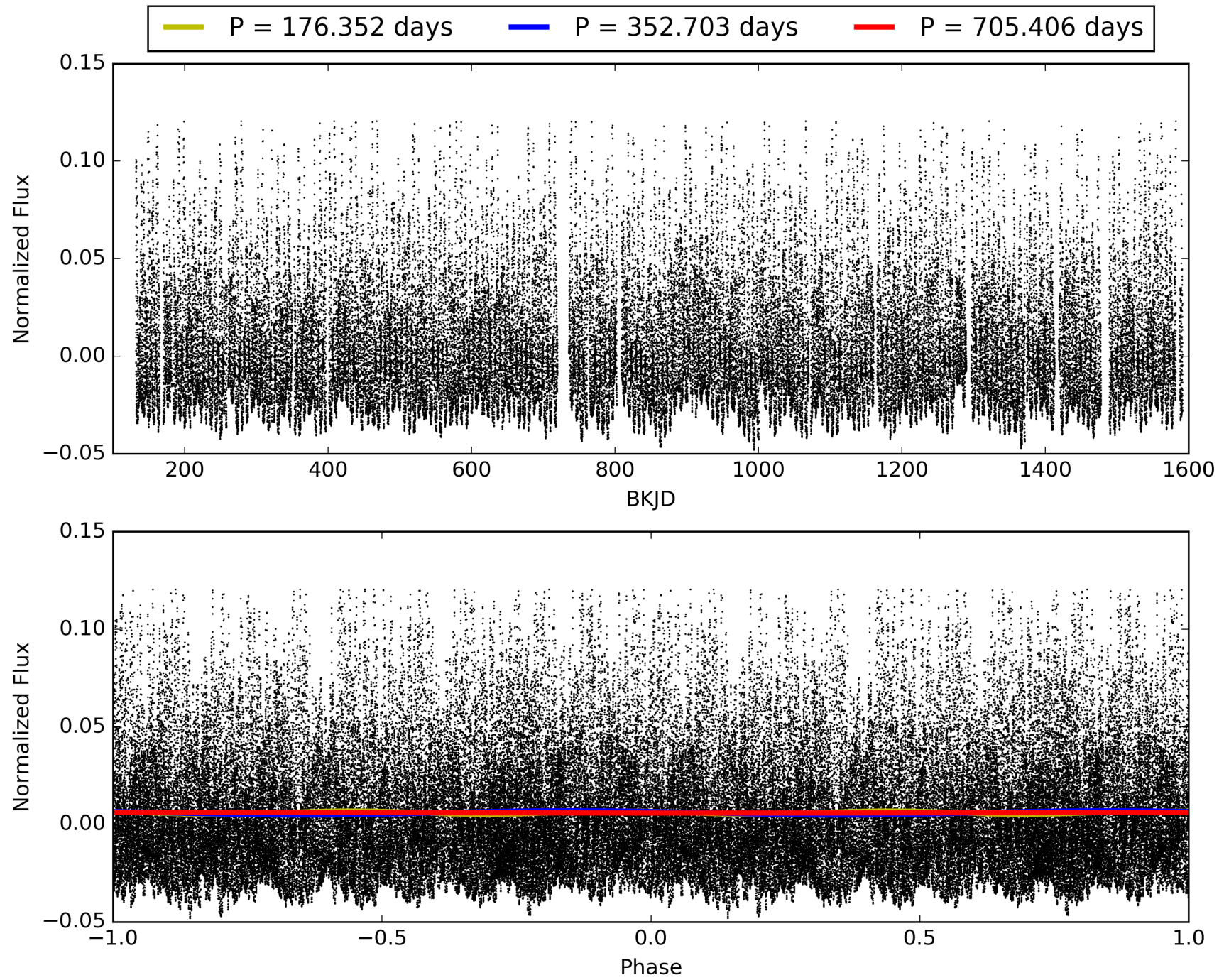
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:15 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264617-03, PDC Light Curves

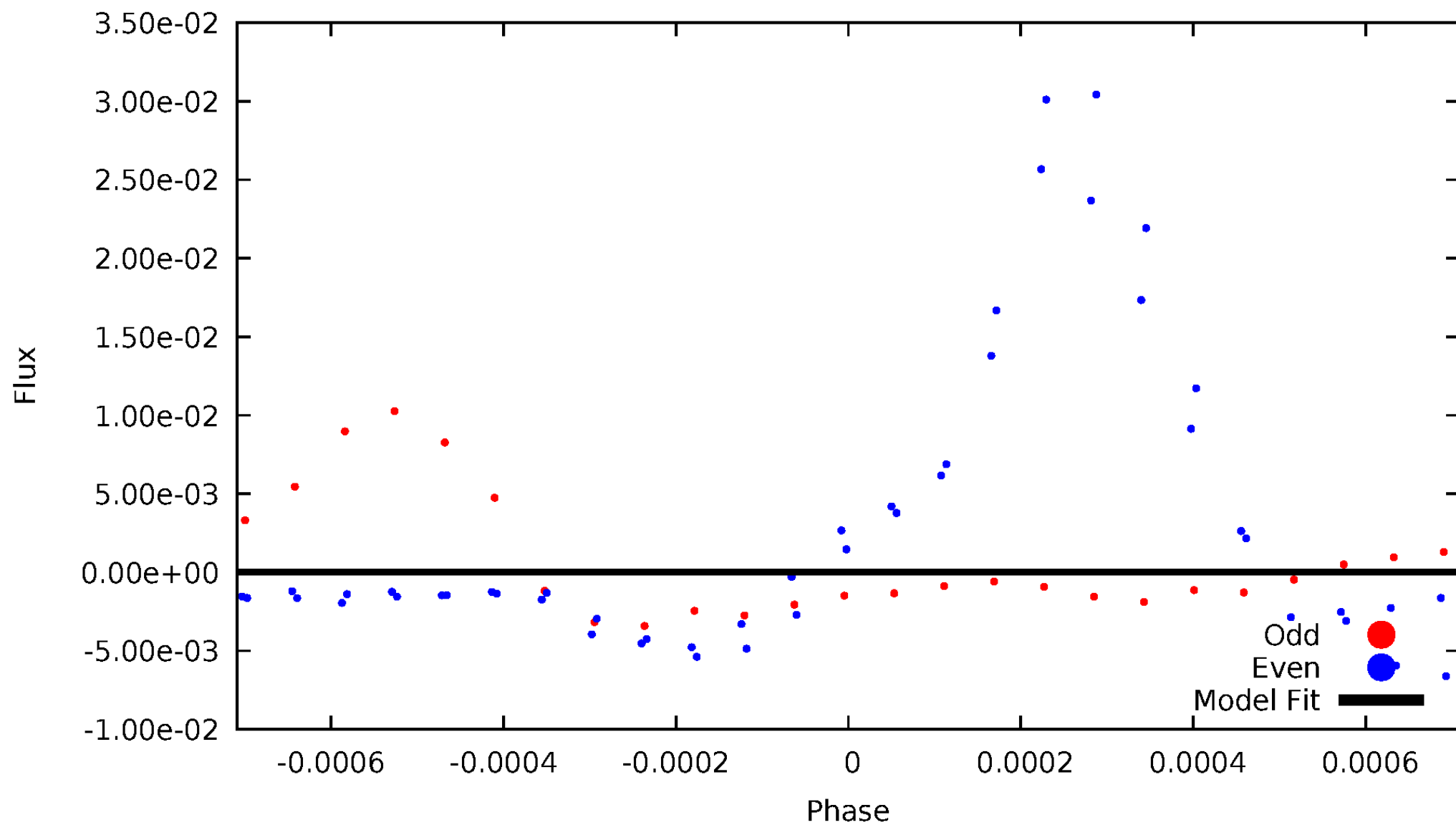


TCE 008264617-03



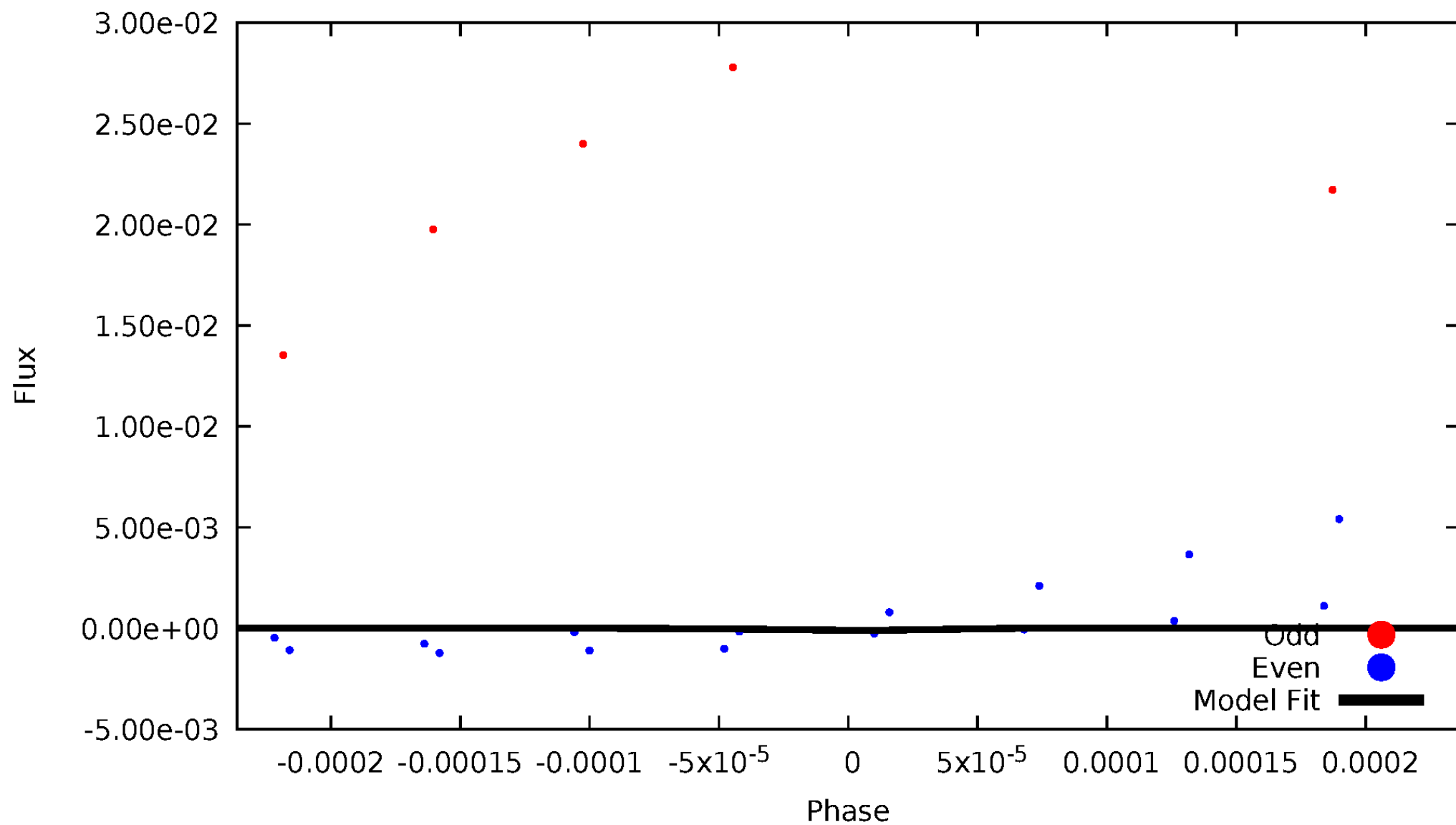
DV Odd/Even

TCE 008264617-03



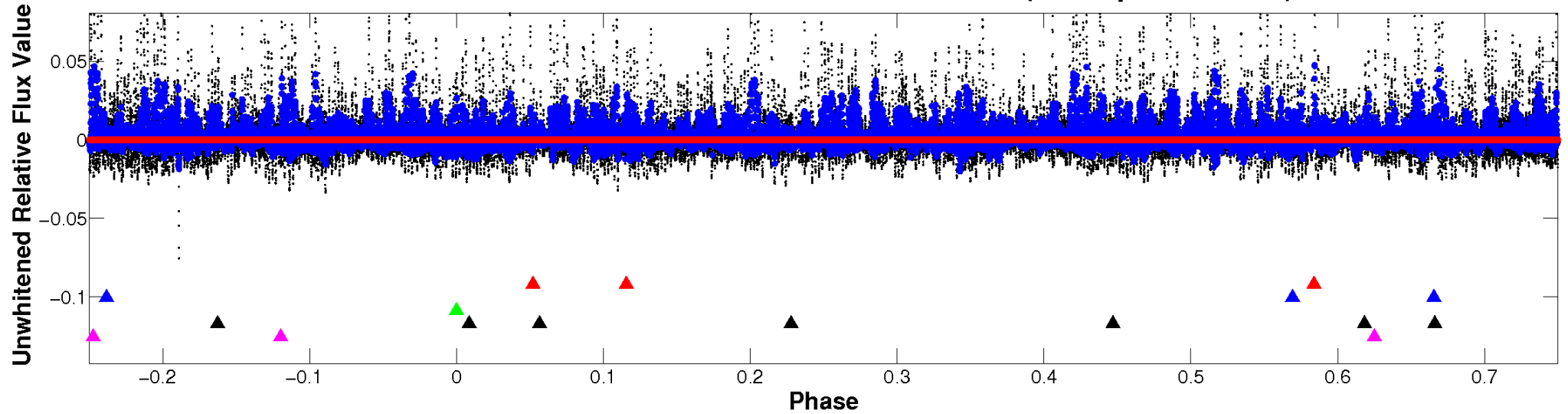
ALT Odd/Even

TCE 008264617-03

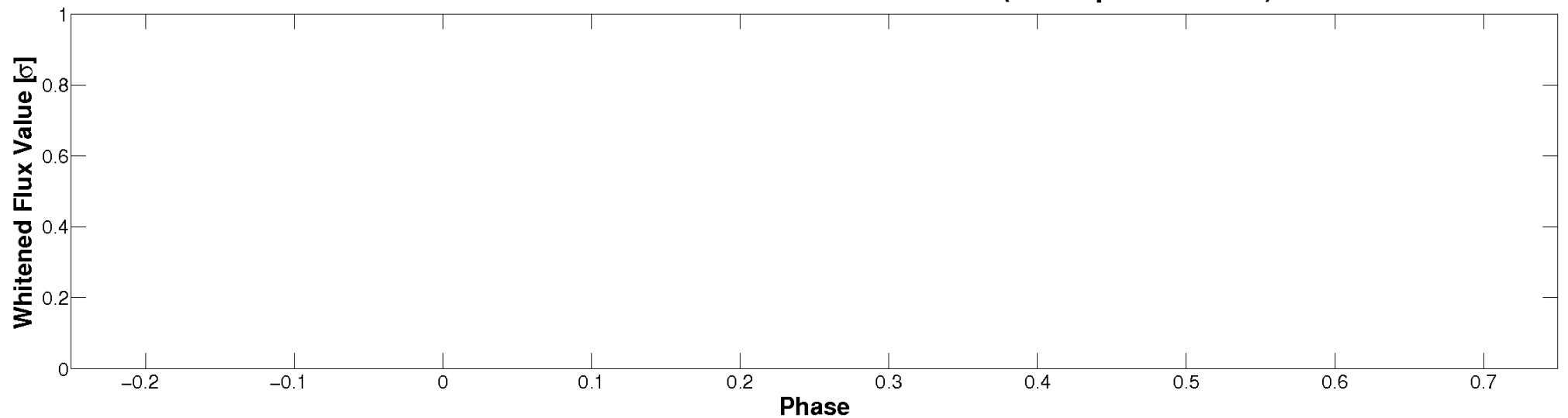


Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

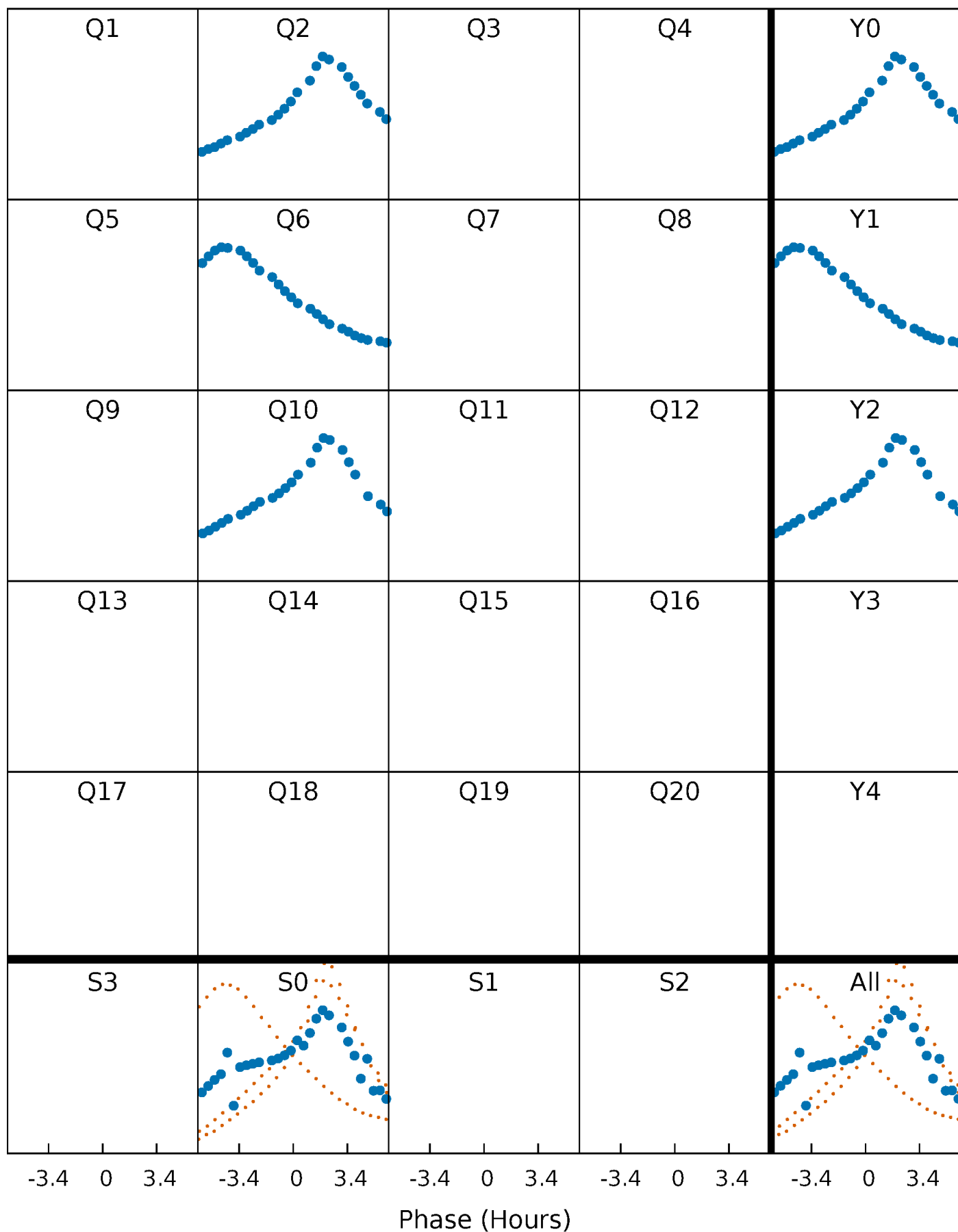


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



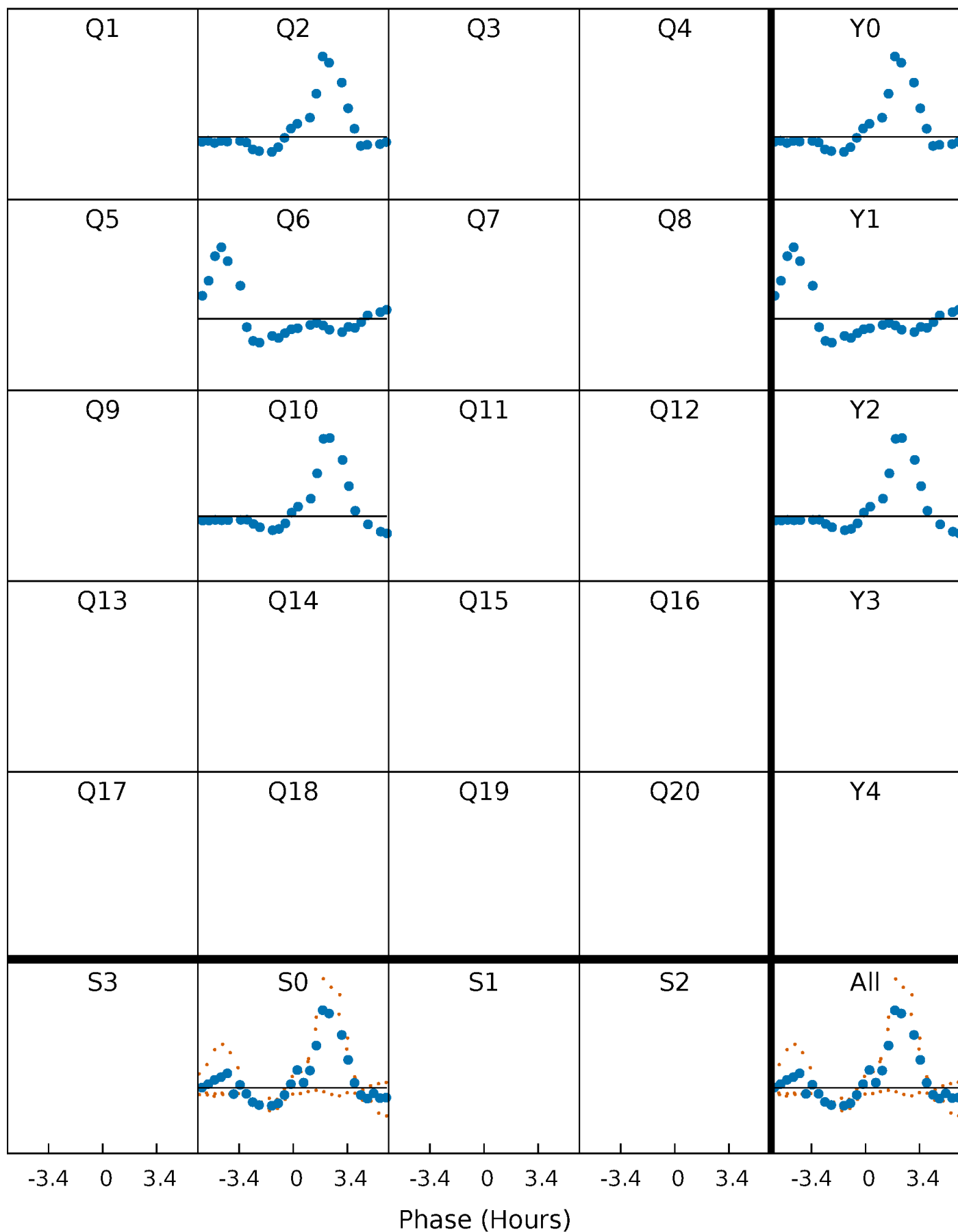
PDC Quarter-Phased Transit Curves

TCE 008264617-03 P=352.703184 Days $T_0=237.363302$ (BKJD)



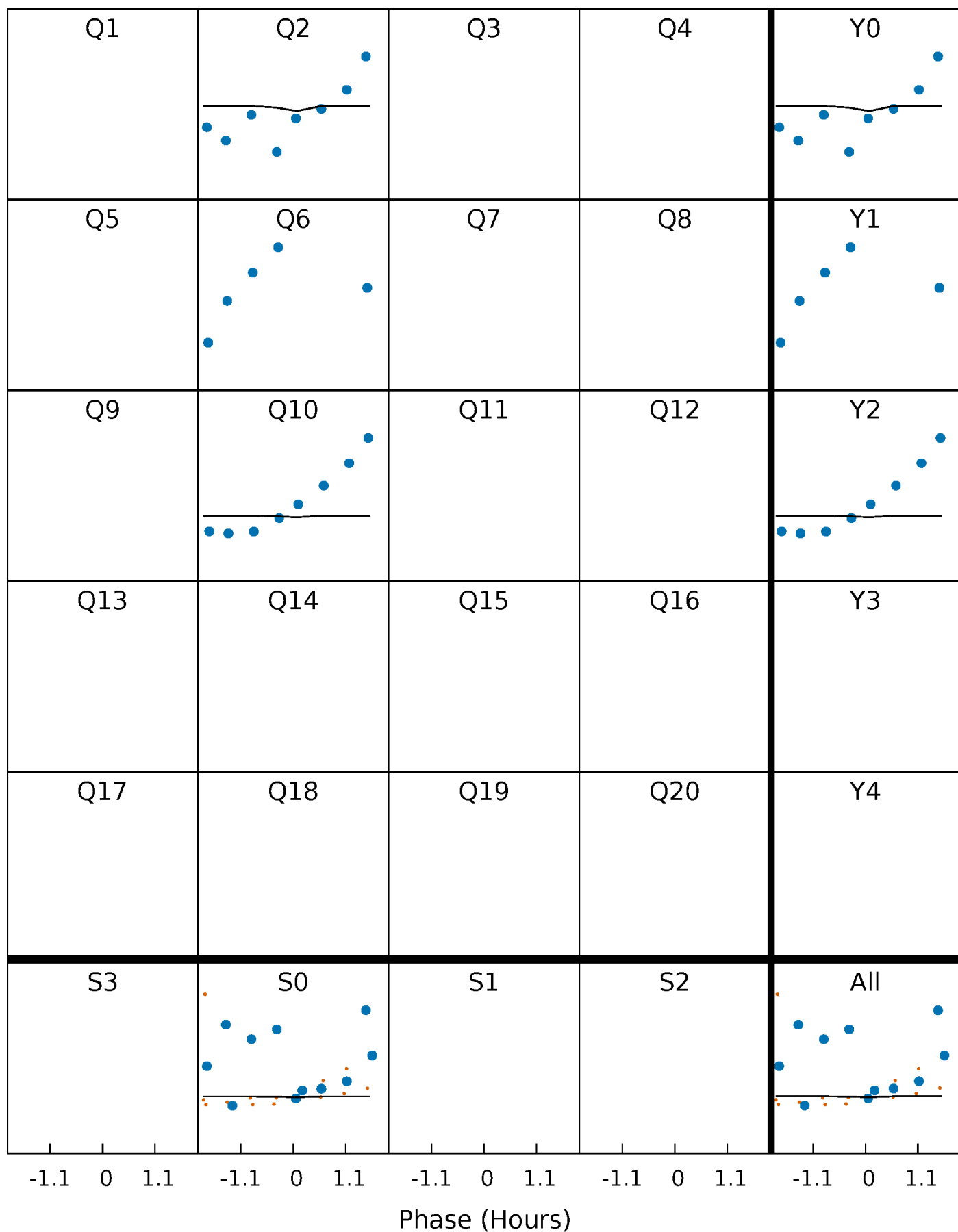
DV Quarter-Phased Transit Curves

TCE 008264617-03 P=352.703184 Days $T_0=237.363302$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

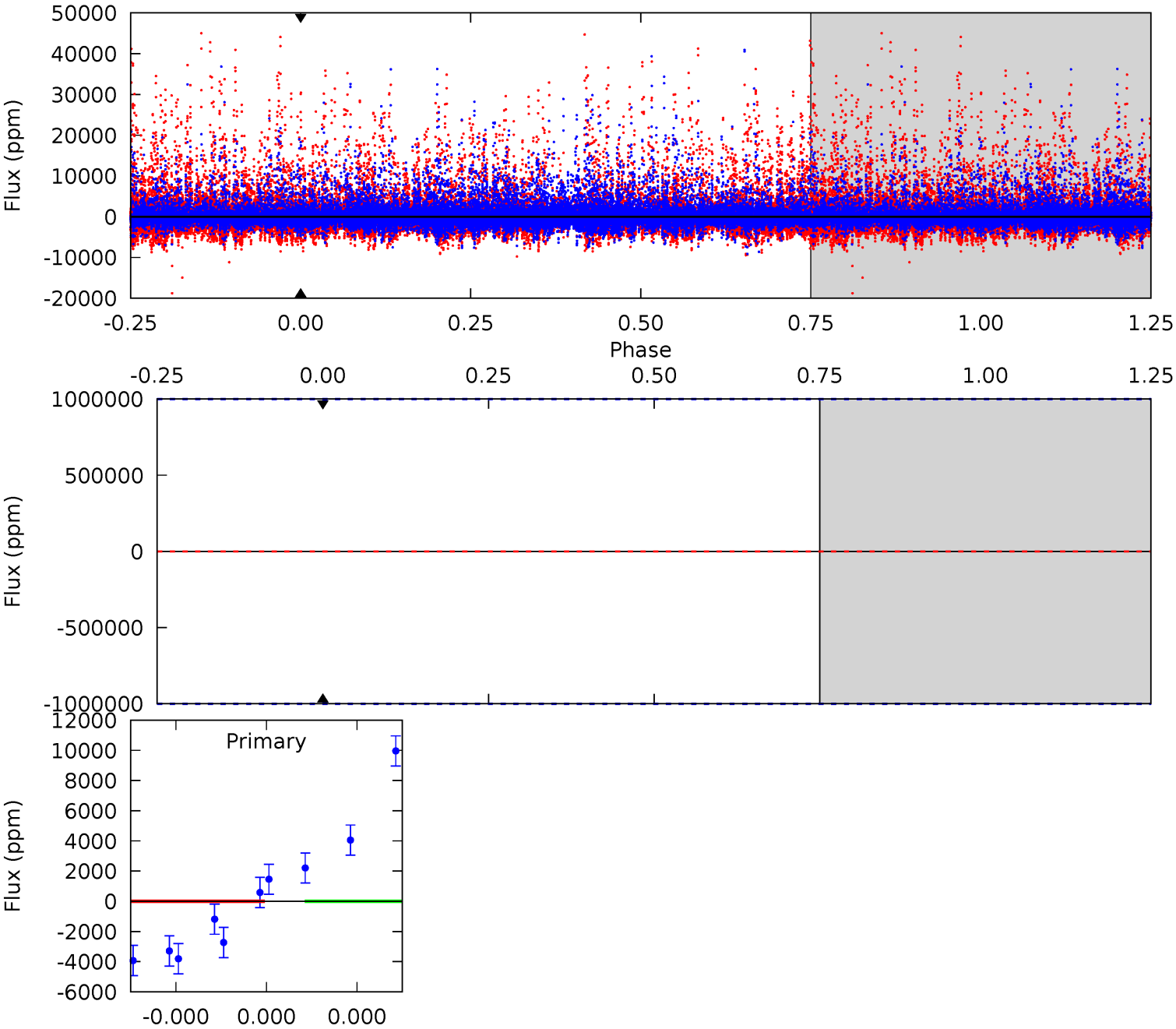
TCE 008264617-03 P=352.703184 Days $T_0=237.173067$ (BKJD)



DV Model-Shift Uniqueness Test

008264617-03, P = 352.703184 Days, E = 237.363302 Days

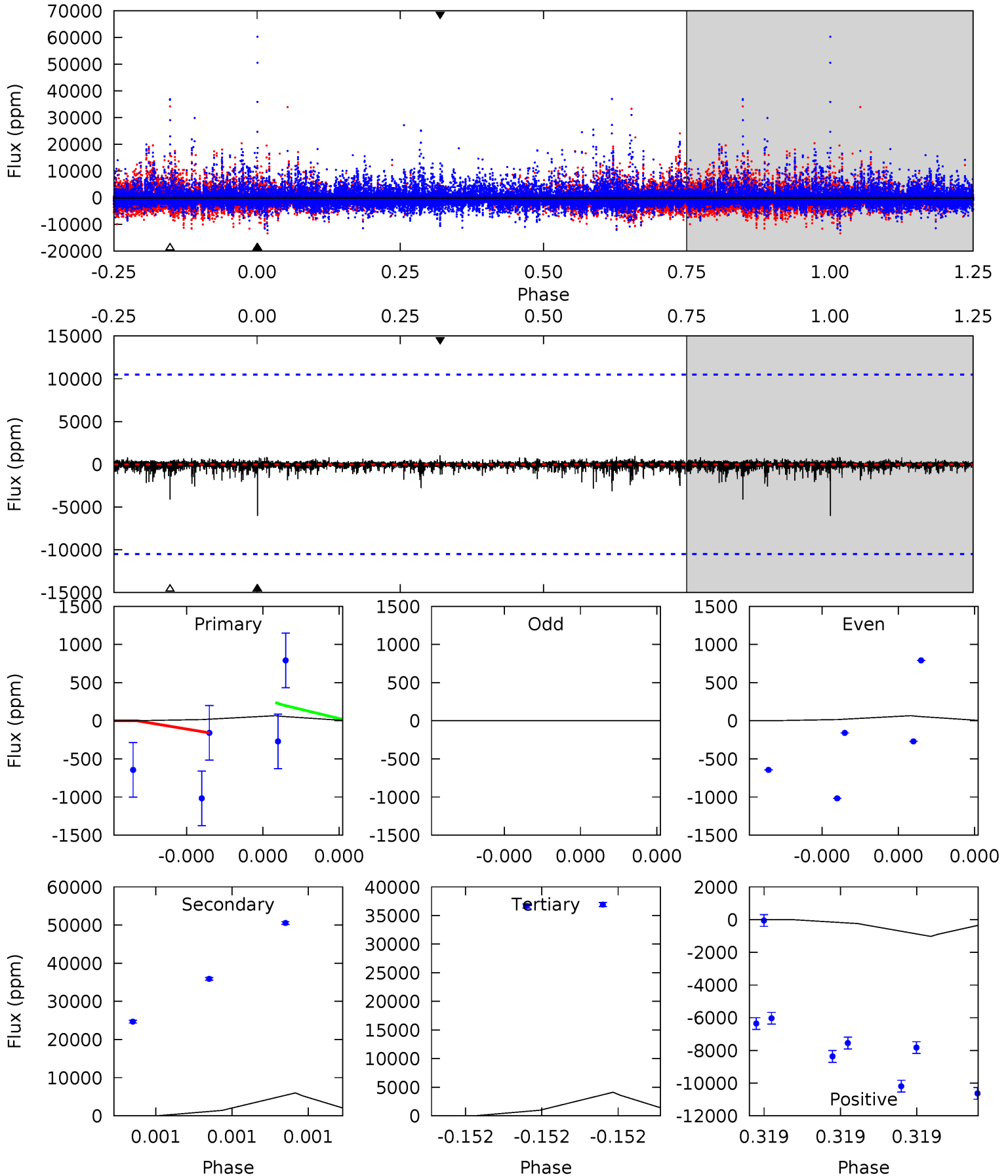
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008264617-03, P = 352.703184 Days, E = 237.173067 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.04	3.40	2.33	0.58	5.93	4.01	0.13	-2.29	-0.54	1.07	2.82	0	1.00	0.15	0.02



Stellar Parameters For KIC 008264617

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7538^{+237}_{-316}	$4.123^{+0.148}_{-0.181}$	$-0.220^{+0.250}_{-0.350}$	$1.766^{+0.505}_{-0.413}$	$1.510^{+0.219}_{-0.241}$	$0.386^{+0.345}_{-0.183}$
	+3%/-4%	+4%/-4%	+114%/-159%	+29%/-23%	+15%/-16%	+89%/-47%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264617-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$16.36^{+17.09}_{-11.09}$	584^{+44}_{-41}	6079^{+32726}_{-35239}	$8718^{+569286}_{-397721}$
Alt.	-6008 ± 1769	$13.82^{+16.00}_{-9.72}$	588^{+44}_{-41}	7936^{+14441}_{-2604}	$20920^{+212718}_{-16499}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

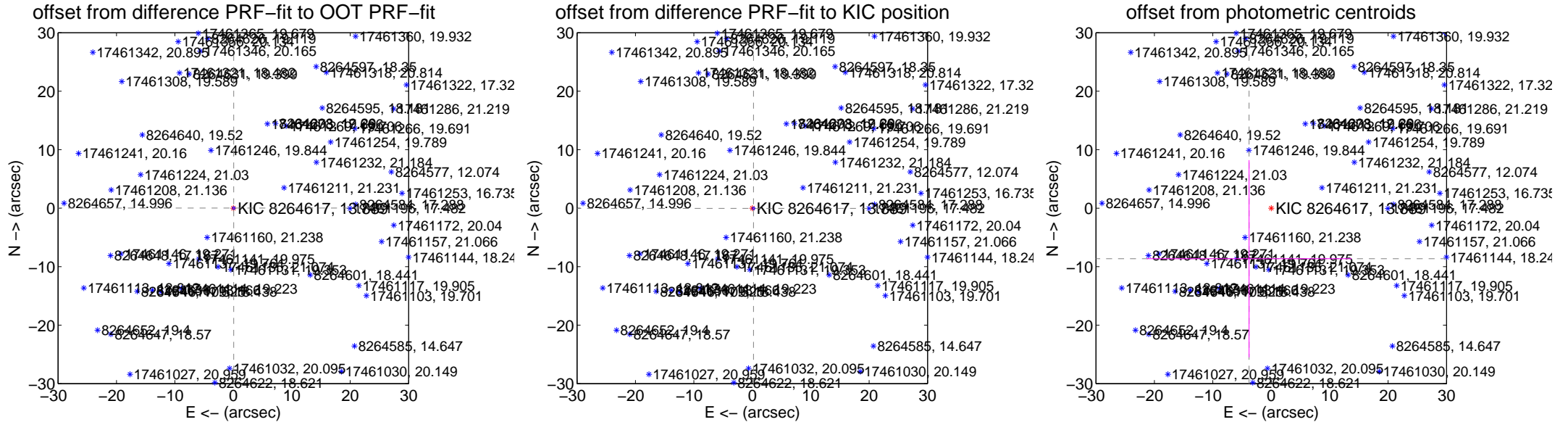
DV Centroid Data

Supplemental centroid analysis for 008264617-03. Kepler magnitude: 13.89. Transit SNR -1.00

There are 2 quarters with good PRF difference image offsets

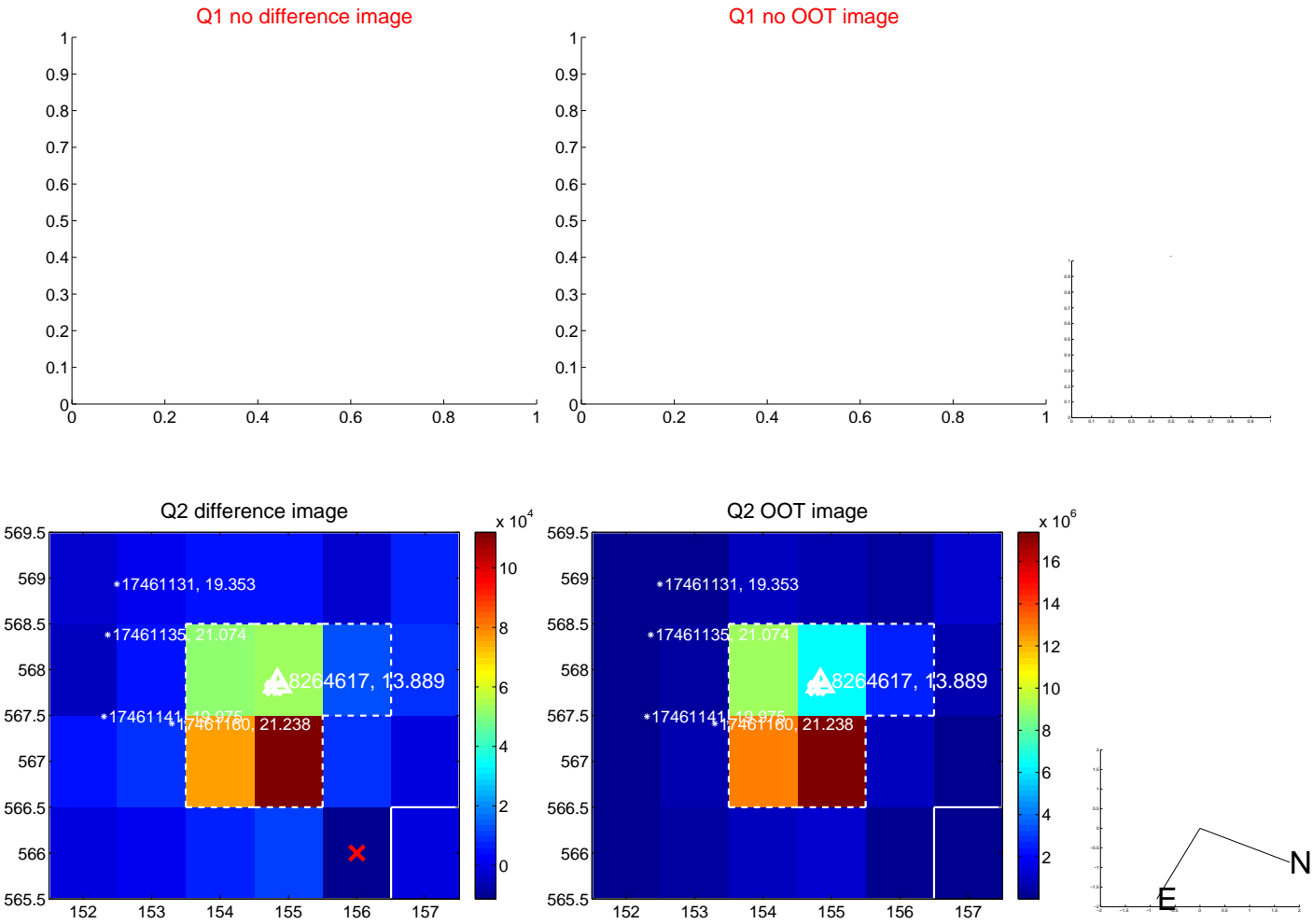
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.066 ± 0.074	0.88	-0.064 ± 0.074	0.015 ± 0.076
PRF-fit source offset from KIC position	0.213 ± 0.074	2.87	-0.210 ± 0.074	-0.038 ± 0.076
photometric centroid source offset	9.44 ± 16.97	0.56	3.79 ± 17.54	-8.64 ± 16.85

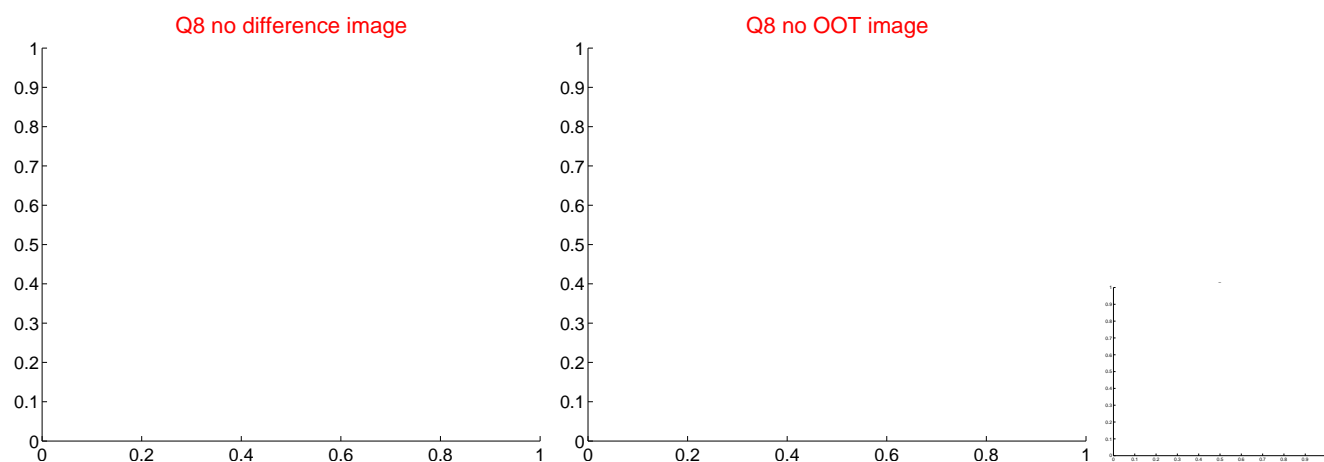
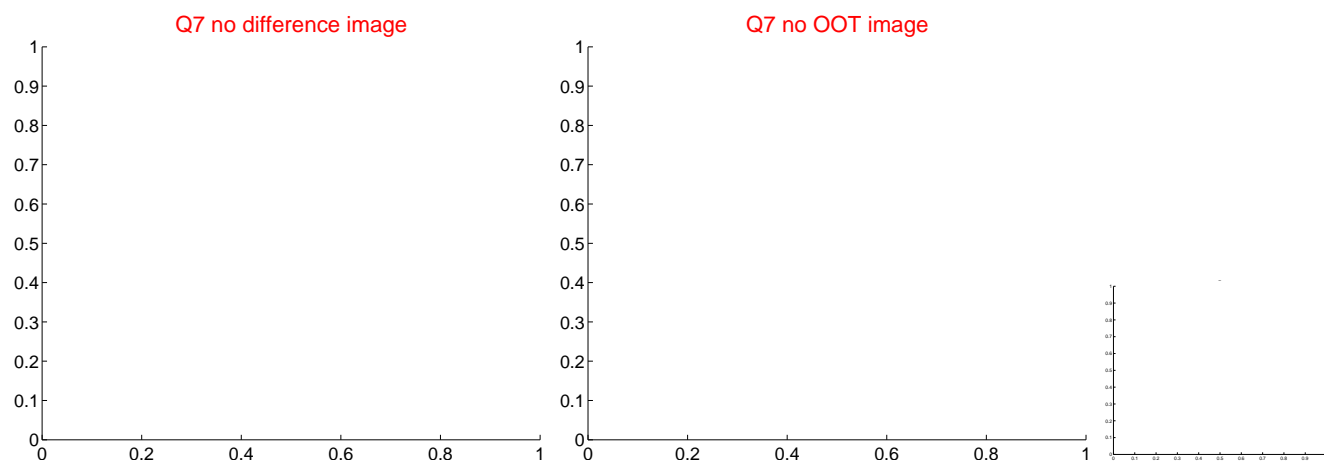
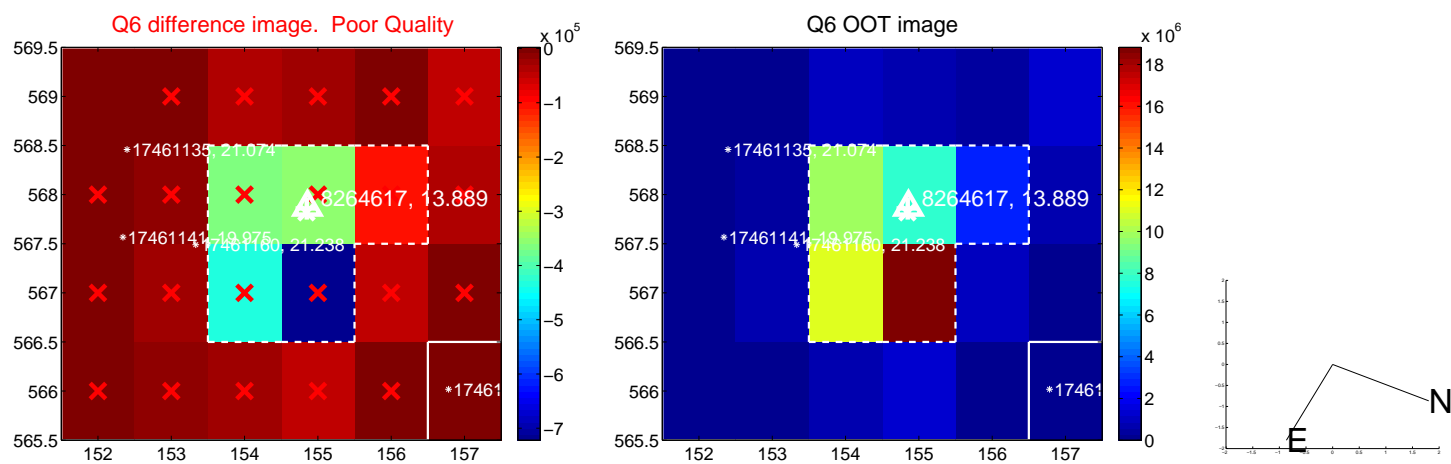
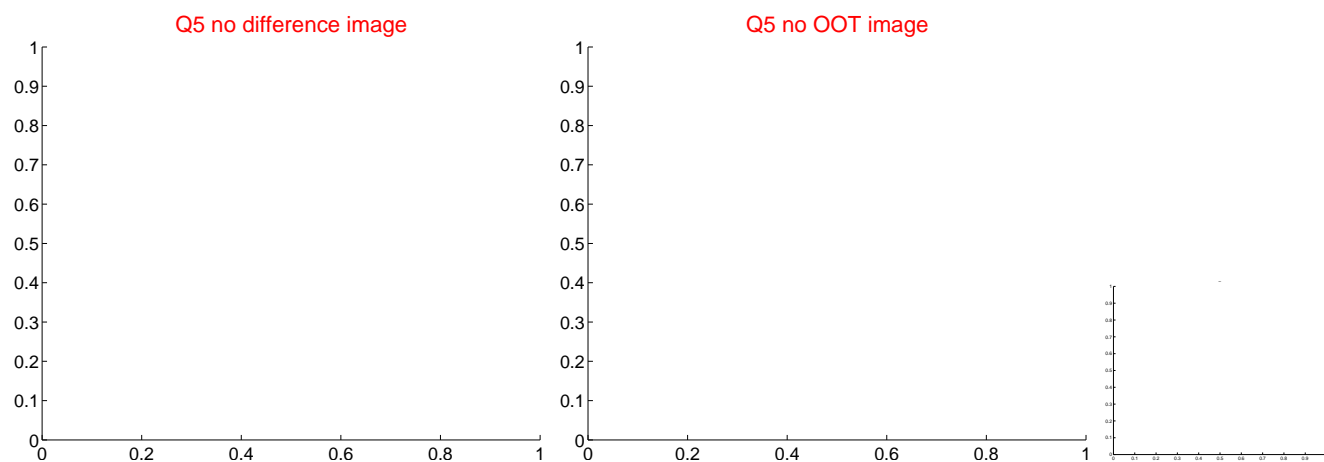


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

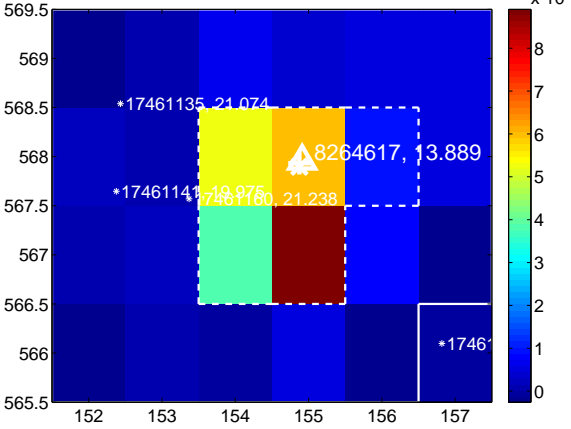
Q9 no difference image



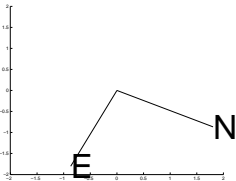
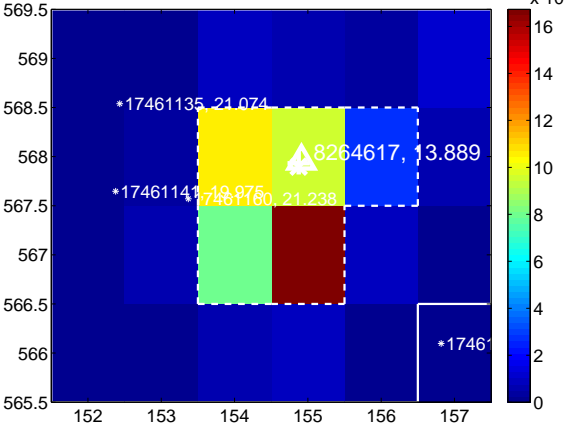
Q9 no OOT image



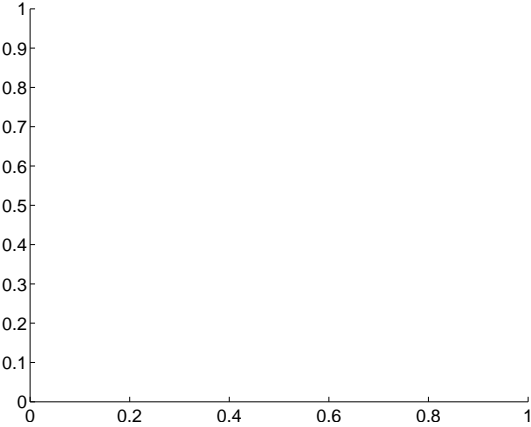
Q10 difference image



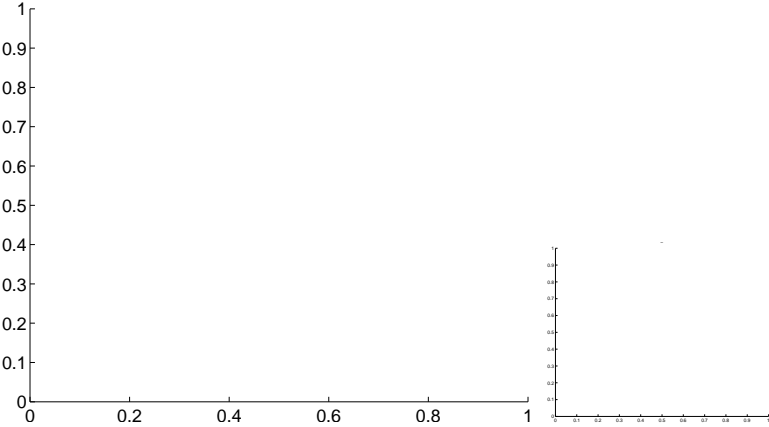
Q10 OOT image



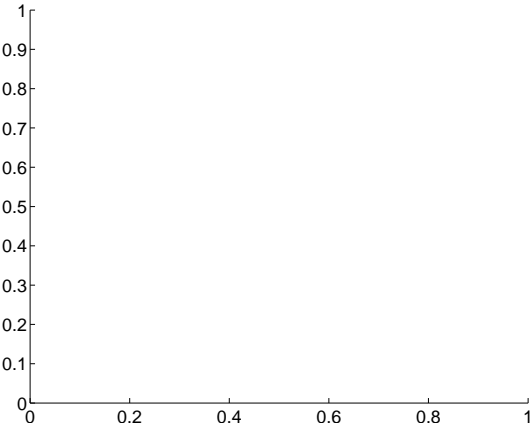
Q11 no difference image



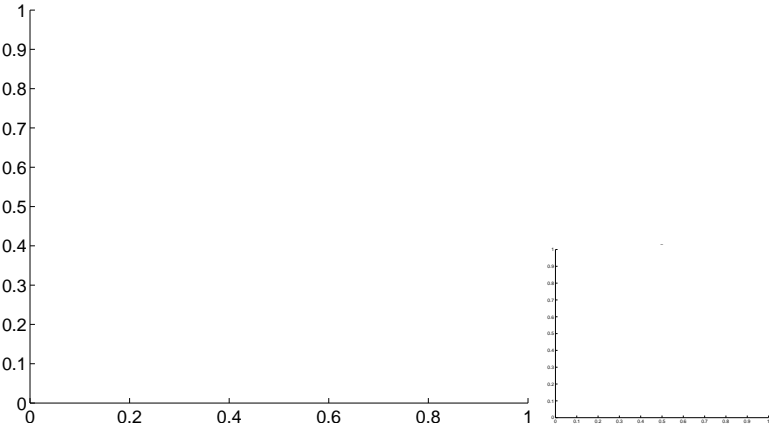
Q11 no OOT image



Q12 no difference image



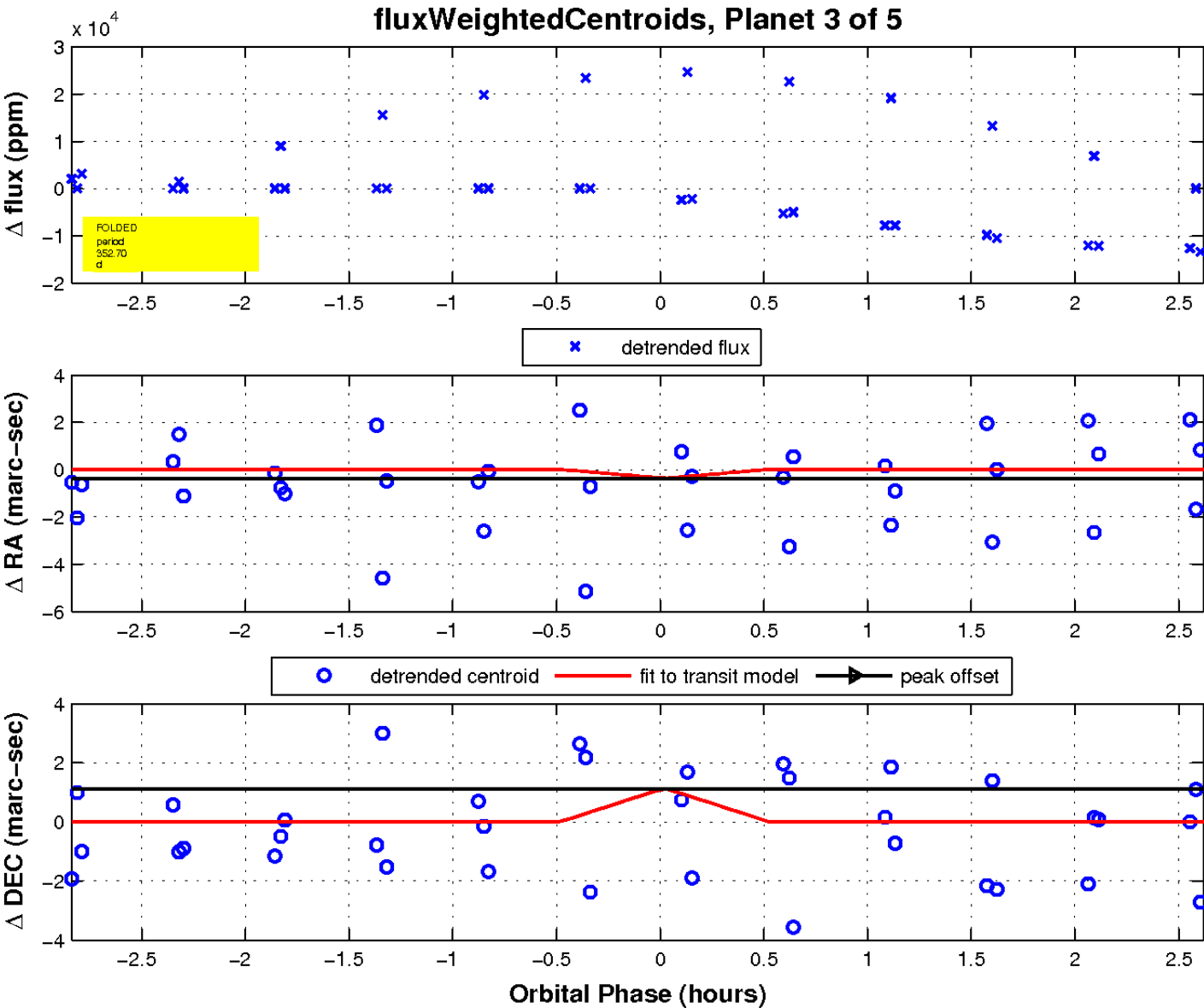
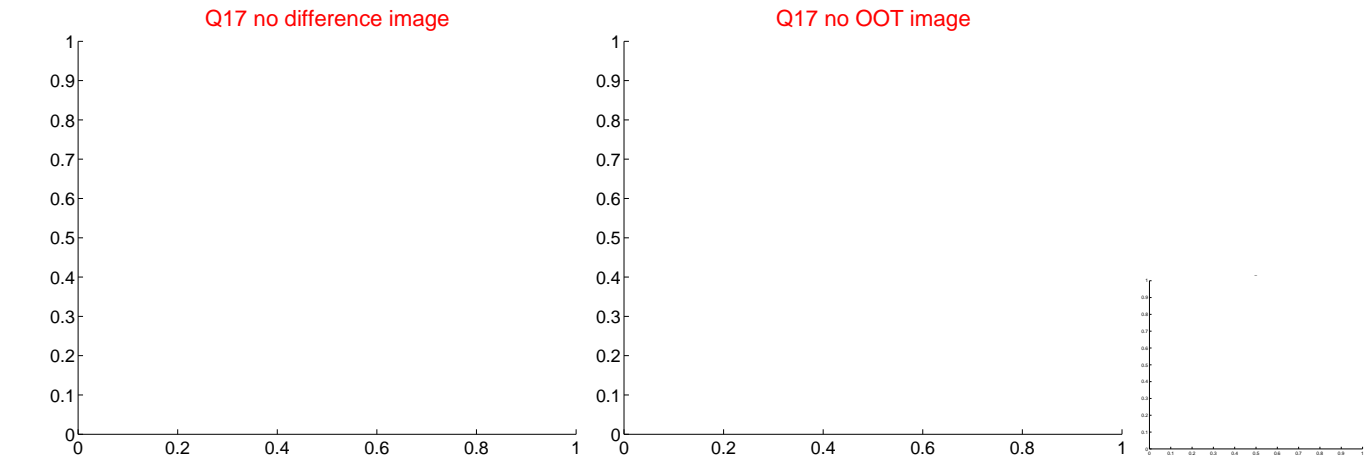
Q12 no OOT image



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

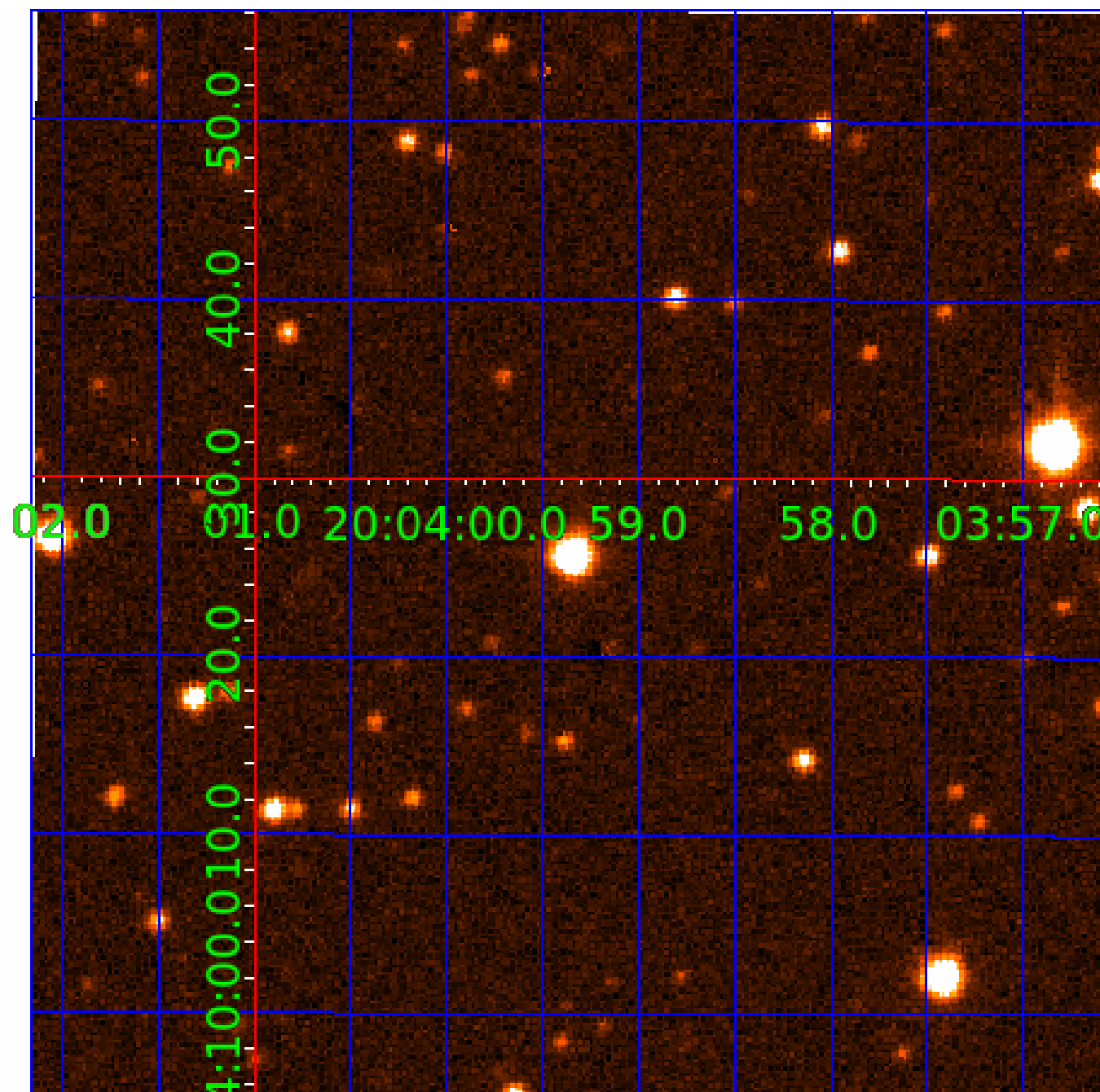


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264617

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
008264617-01	OBS	No	517.851323	278.152414	3594.9	14.178	29.3	3.1	1.77	7538	10.66	4.30
008264617-02	OBS	No	386.638685	438.161312	8590.0	16.310	29.1	6.9	1.77	7538	16.46	6.35
008264617-03	OBS	No	352.703184	237.363302	2010.0	3.000	25.8	-1.0	1.77	7538	7.97	7.18
008264617-04	OBS	No	215.001184	240.420873	569.3	2.033	21.8	2.0	1.77	7538	4.34	13.89
008264617-05	OBS	No	397.741702	457.790136	1497.1	4.589	22.3	1.7	1.77	7538	8.46	6.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264617-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264617-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
008264617-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
008264617-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264617-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

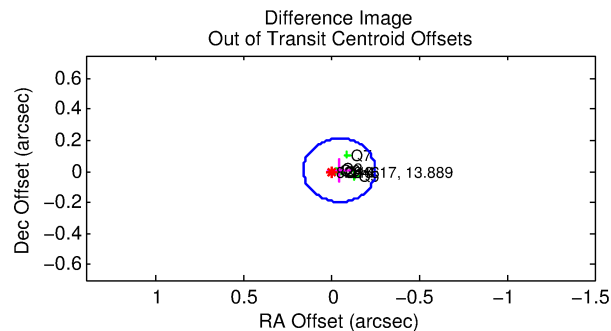
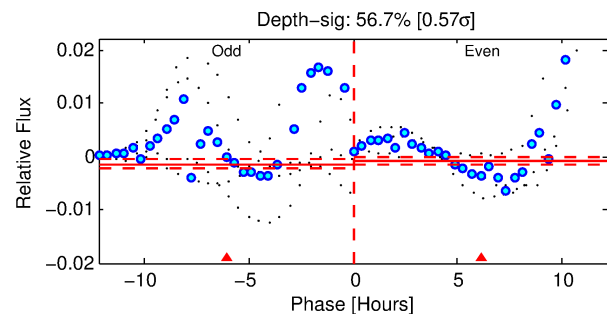
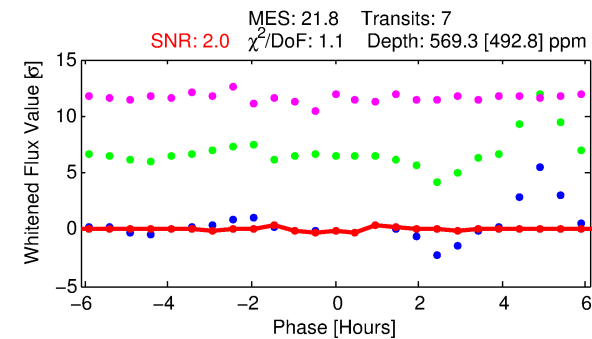
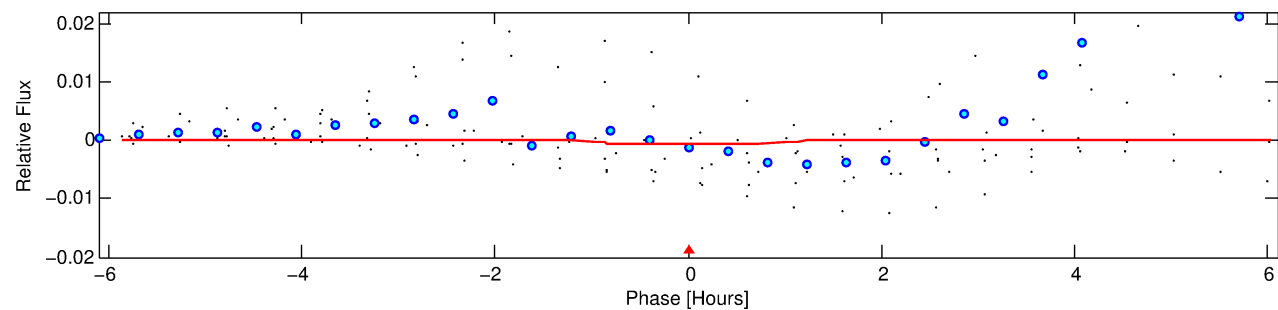
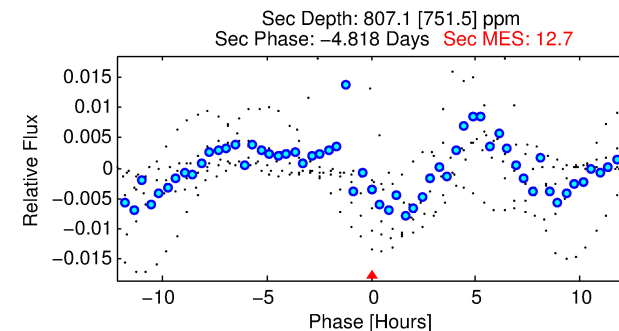
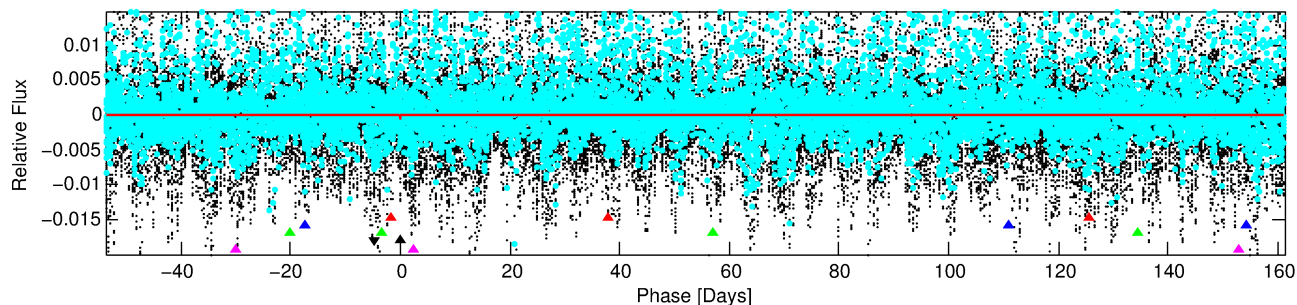
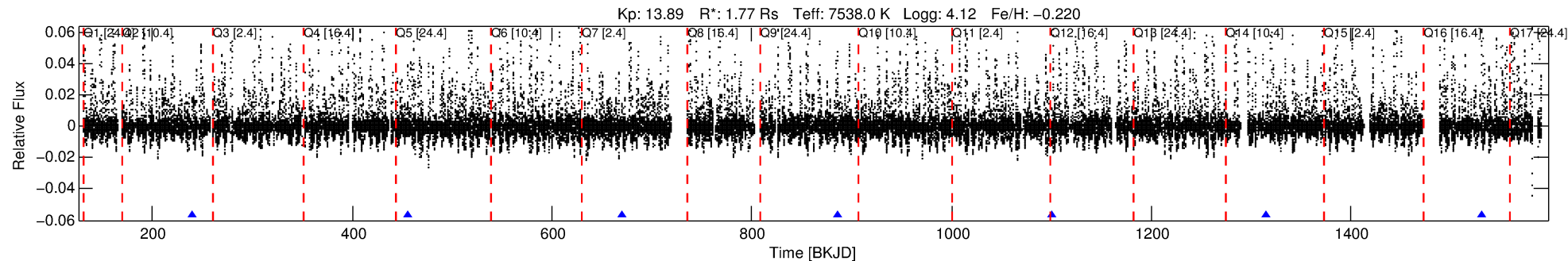
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264617-04

No Significant Match Found

DV One-Page Summary

KIC: 8264617 Candidate: 4 of 5 Period: 215.001 d



DV Fit Results:

Period = 215.00118 [0.00573] d
Epoch = 240.4209 [0.0186] BKJD
Rp/R* = 0.0225 [0.0566]
a/R* = 731.58 [9212.64]
b = 0.47 [20.73]
Seff = 13.89 [5.23]
Teq = 492 [46] K
Rp = 4.34 [10.99] Re
a = 0.8060 [0.1901] AU
Ag = 15281.07 [78269.15] [0.20σ]
Teff = 8462 [10818] K [0.74σ]

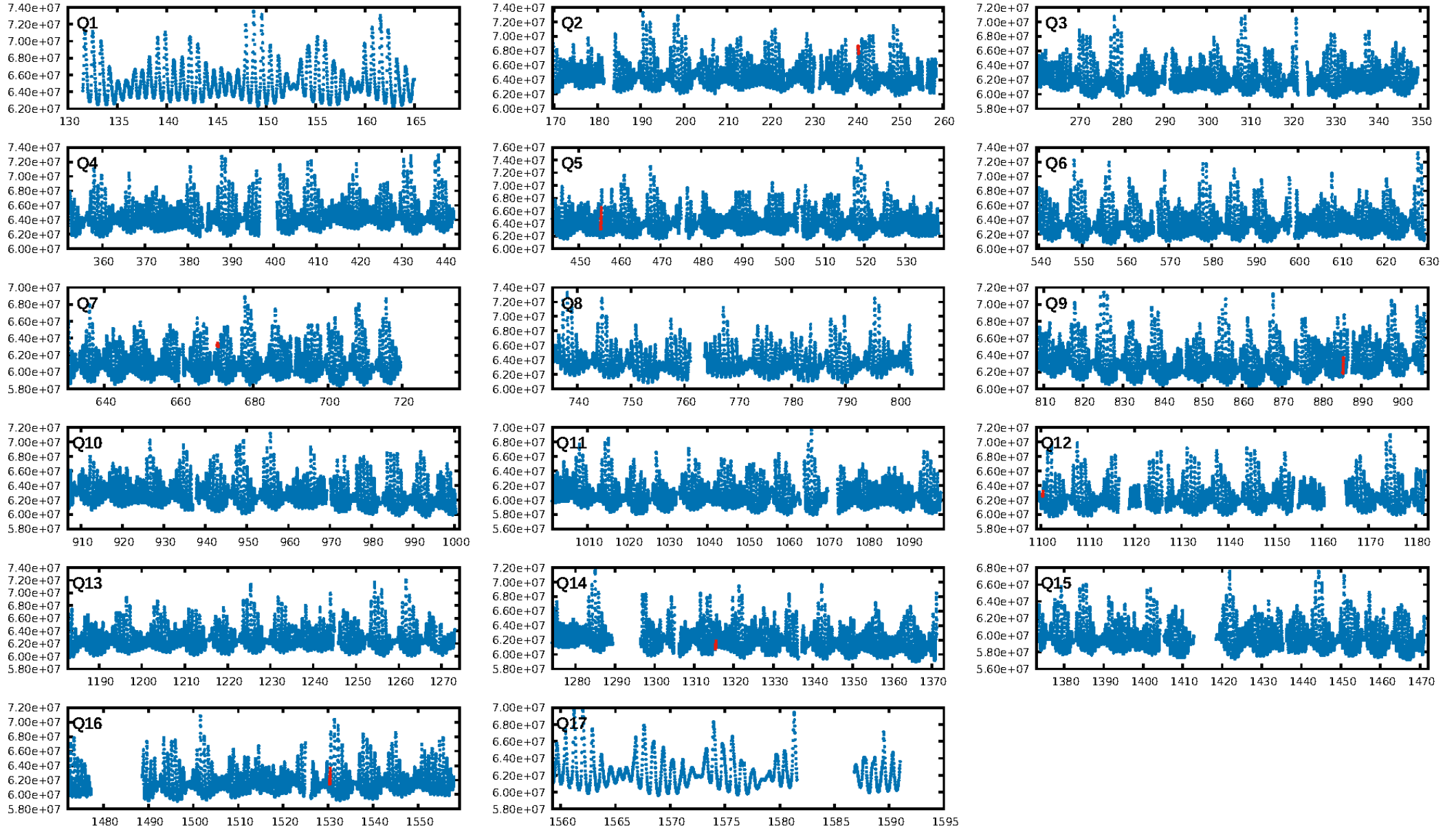
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [911.91σ]
ModelChiSquare2-sig: 48.0%
ModelChiSquareGof-sig: 99.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 3.088
Centroid-sig: 9.8%
Centroid-so: 1.937 arcsec [1.26σ]
OotOffset-rm: 0.046 arcsec [0.67σ]
KicOffset-rm: 0.166 arcsec [2.30σ]
OotOffset-st: 2/1/1/2 [6]
KicOffset-st: 2/1/1/2 [6]
DiffImageQuality-fgm: 0.67 [4/6]
DiffImageOverlap-fno: 1.00 [6/6]

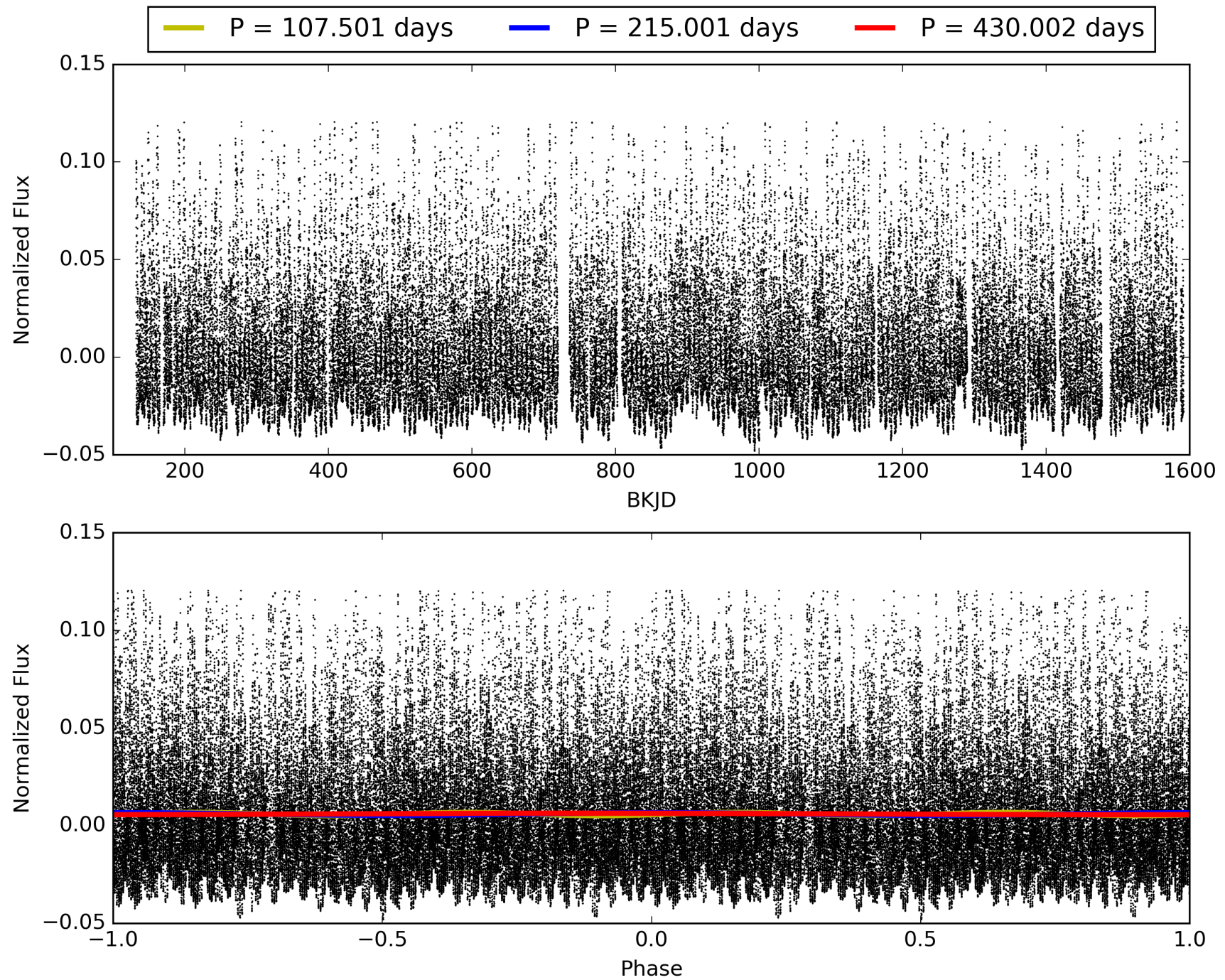
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:32 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264617-04, PDC Light Curves

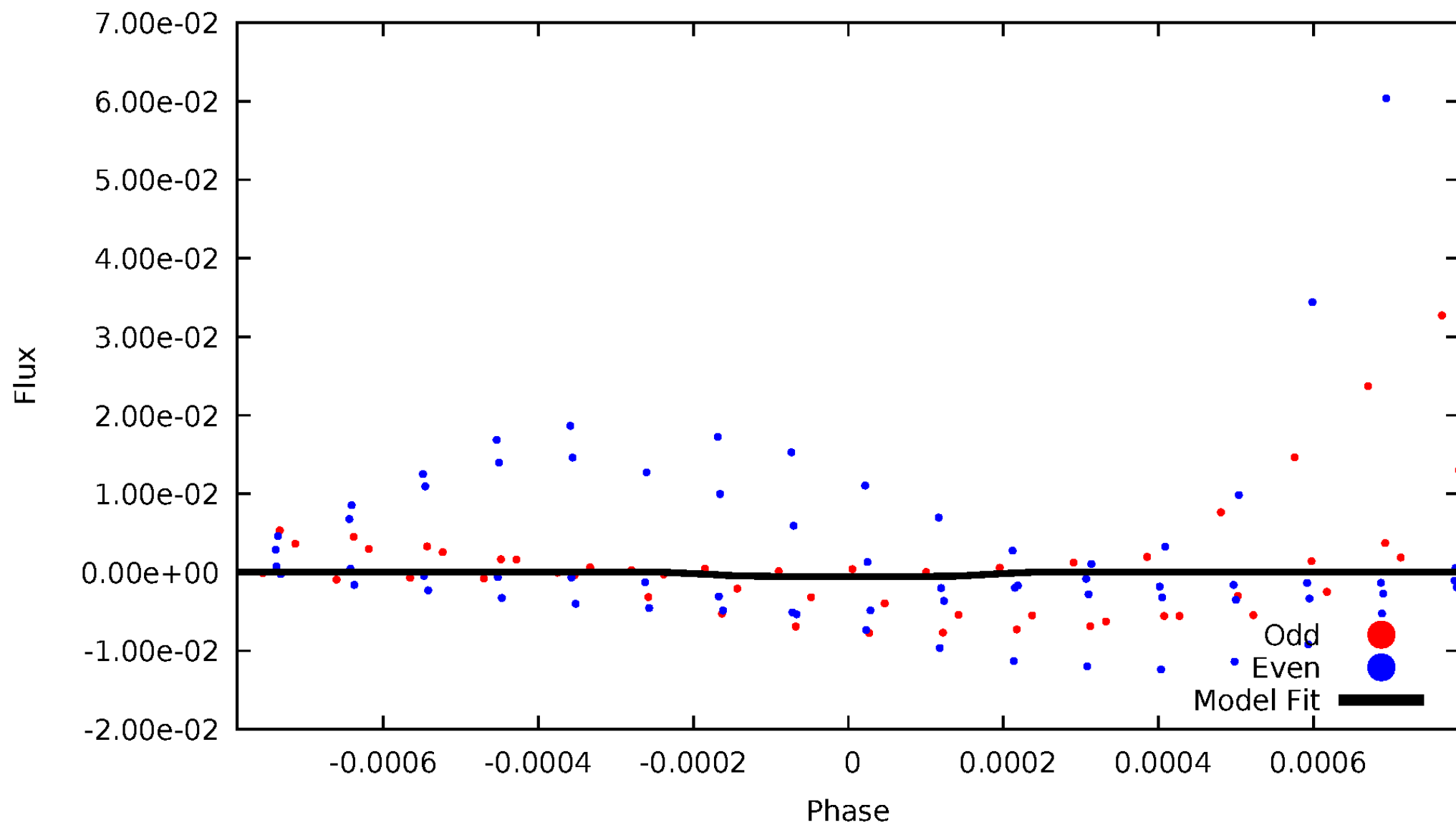


TCE 008264617-04



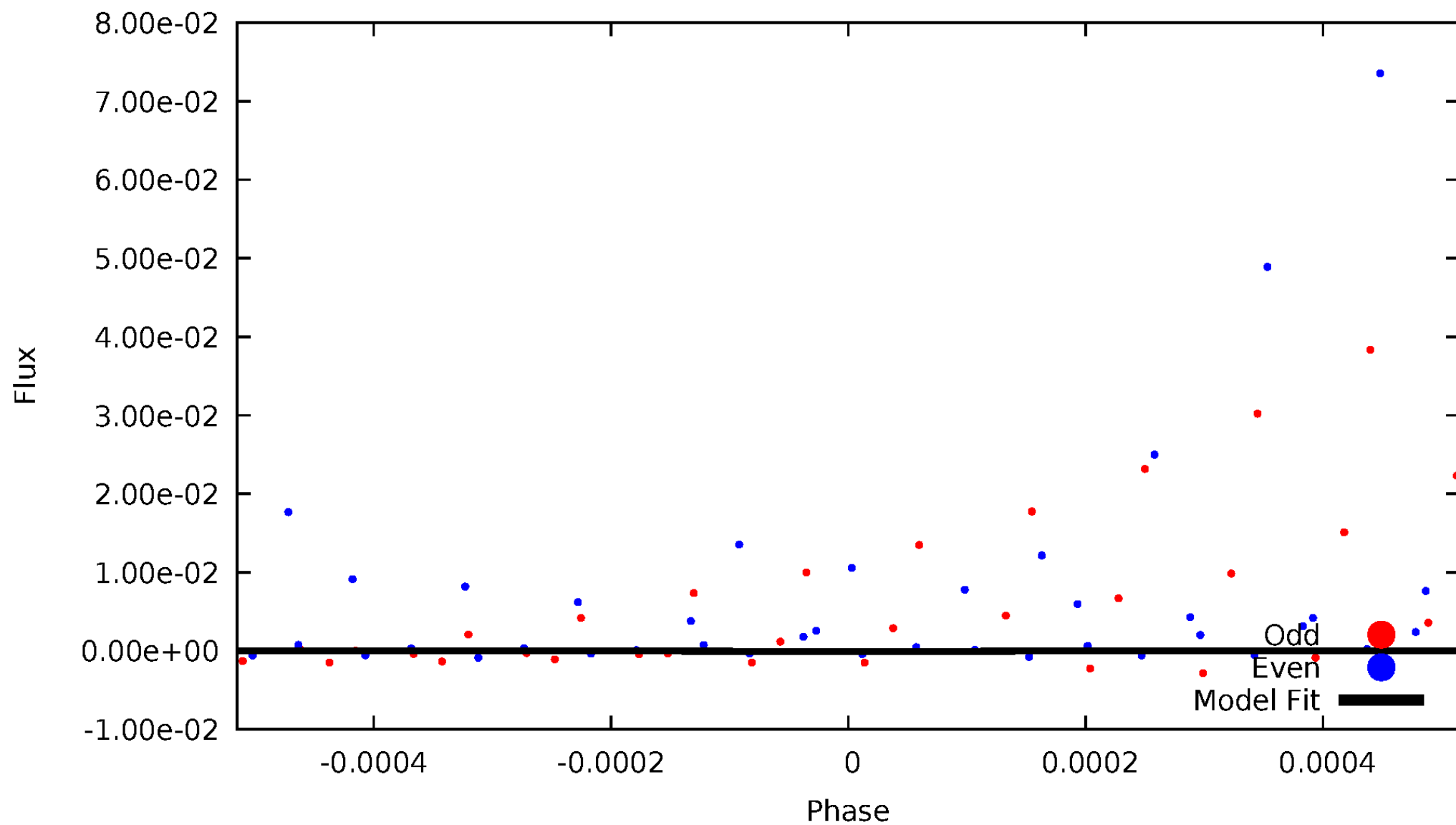
DV Odd/Even

TCE 008264617-04



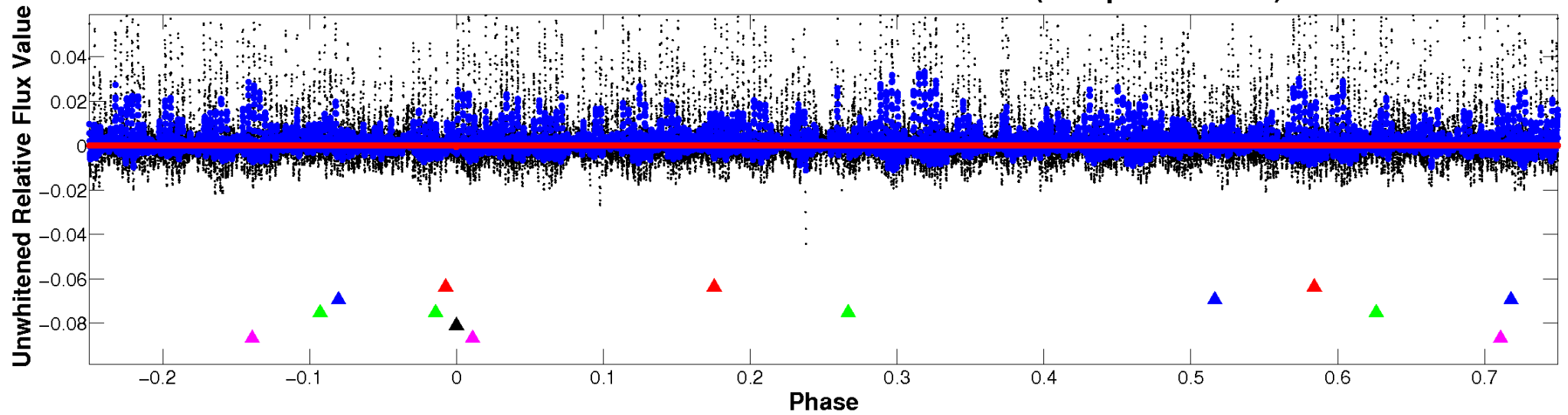
ALT Odd/Even

TCE 008264617-04

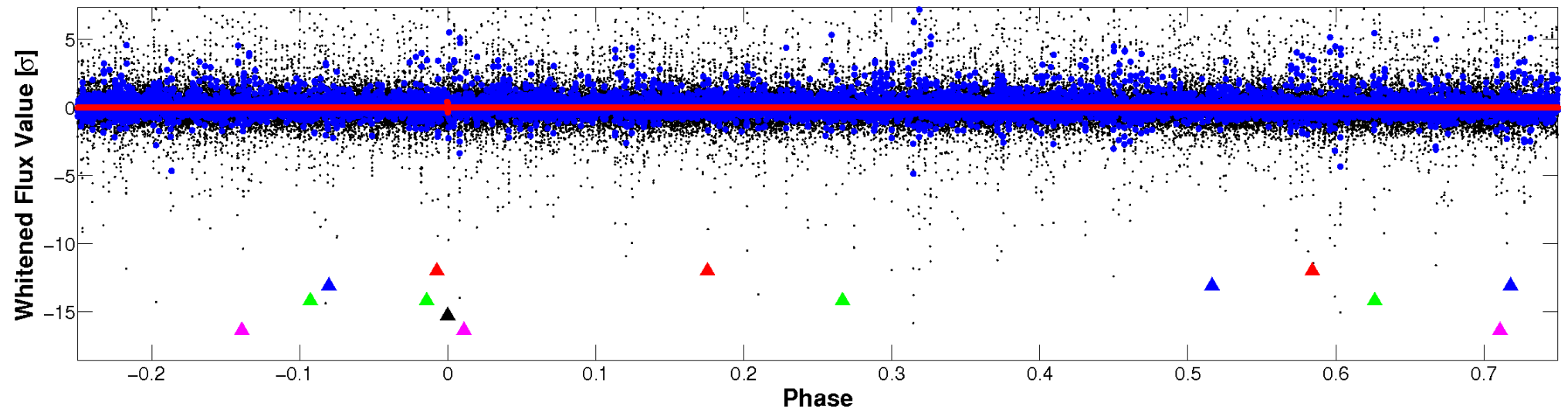


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

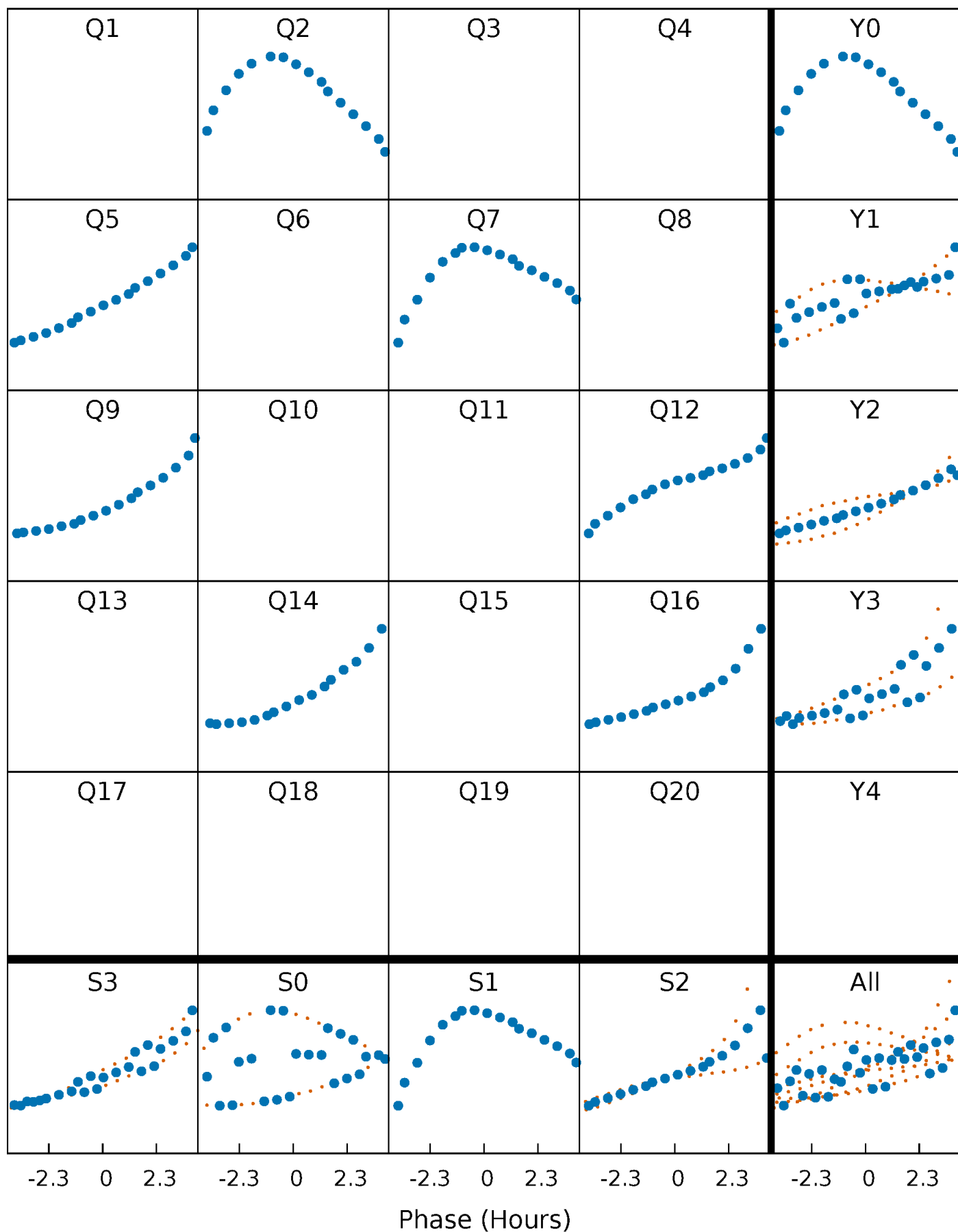


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



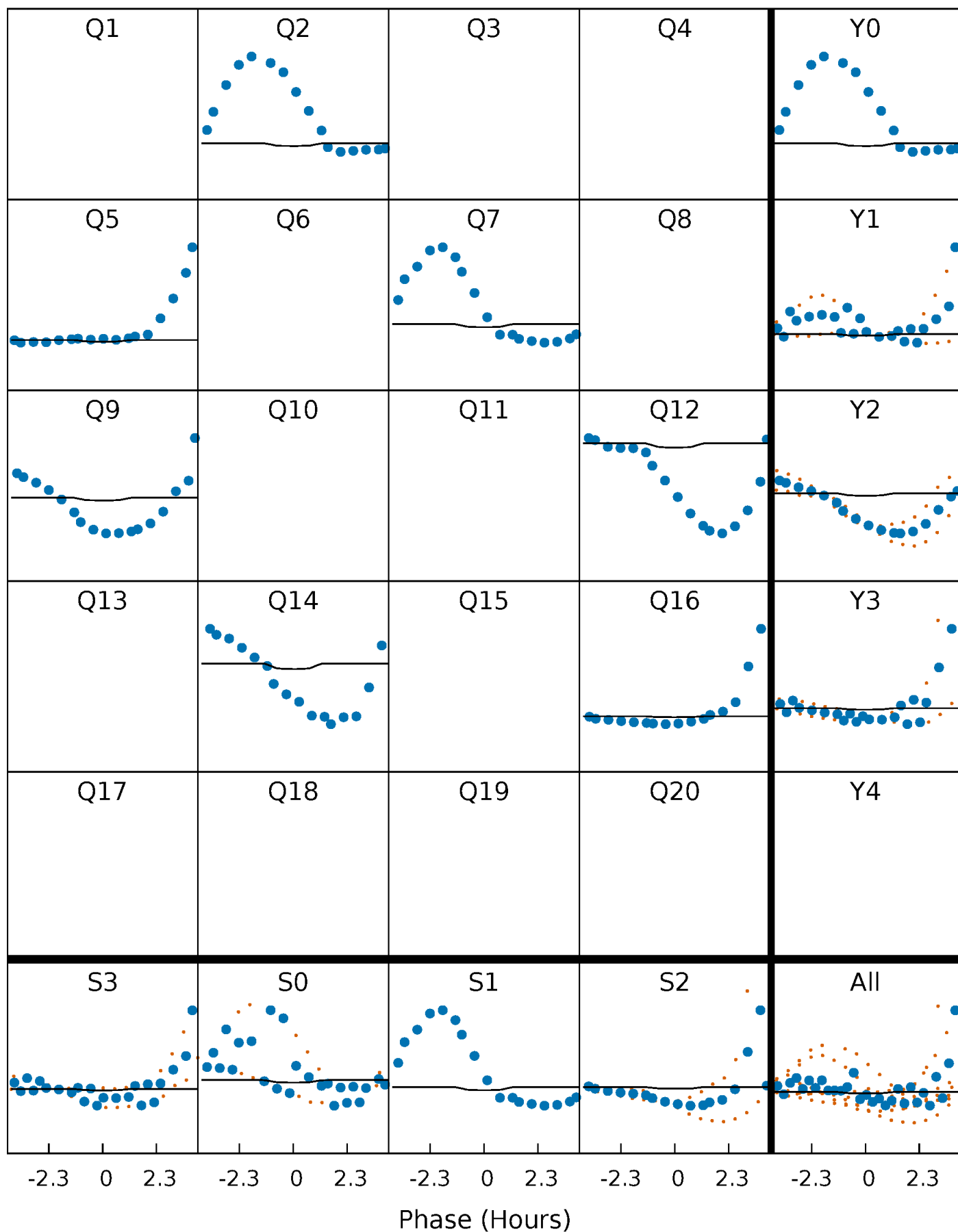
PDC Quarter-Phased Transit Curves

TCE 008264617-04 $P=215.001184$ Days $T_0=240.420873$ (BKJD)



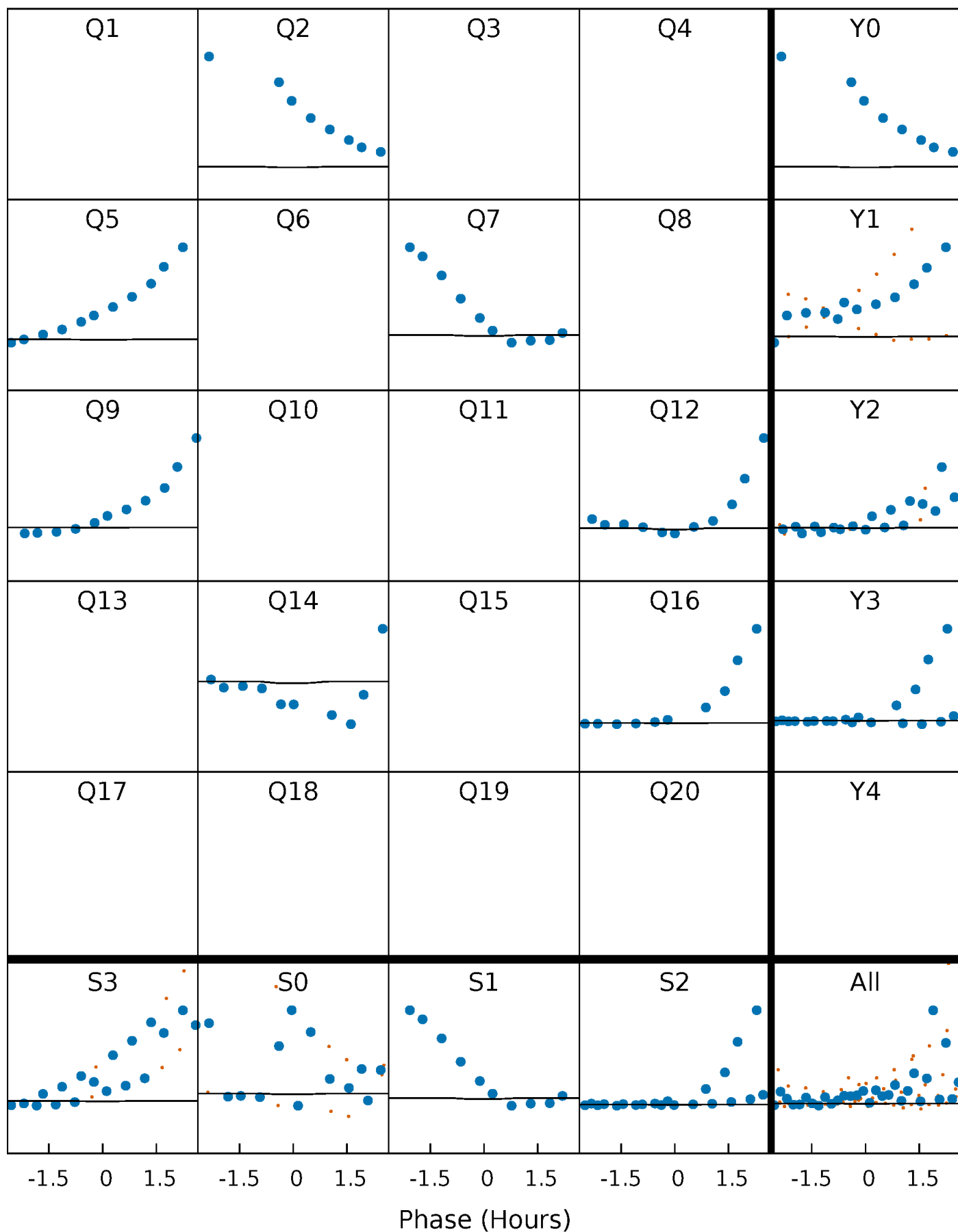
DV Quarter-Phased Transit Curves

TCE 008264617-04 P=215.001184 Days $T_0=240.420873$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

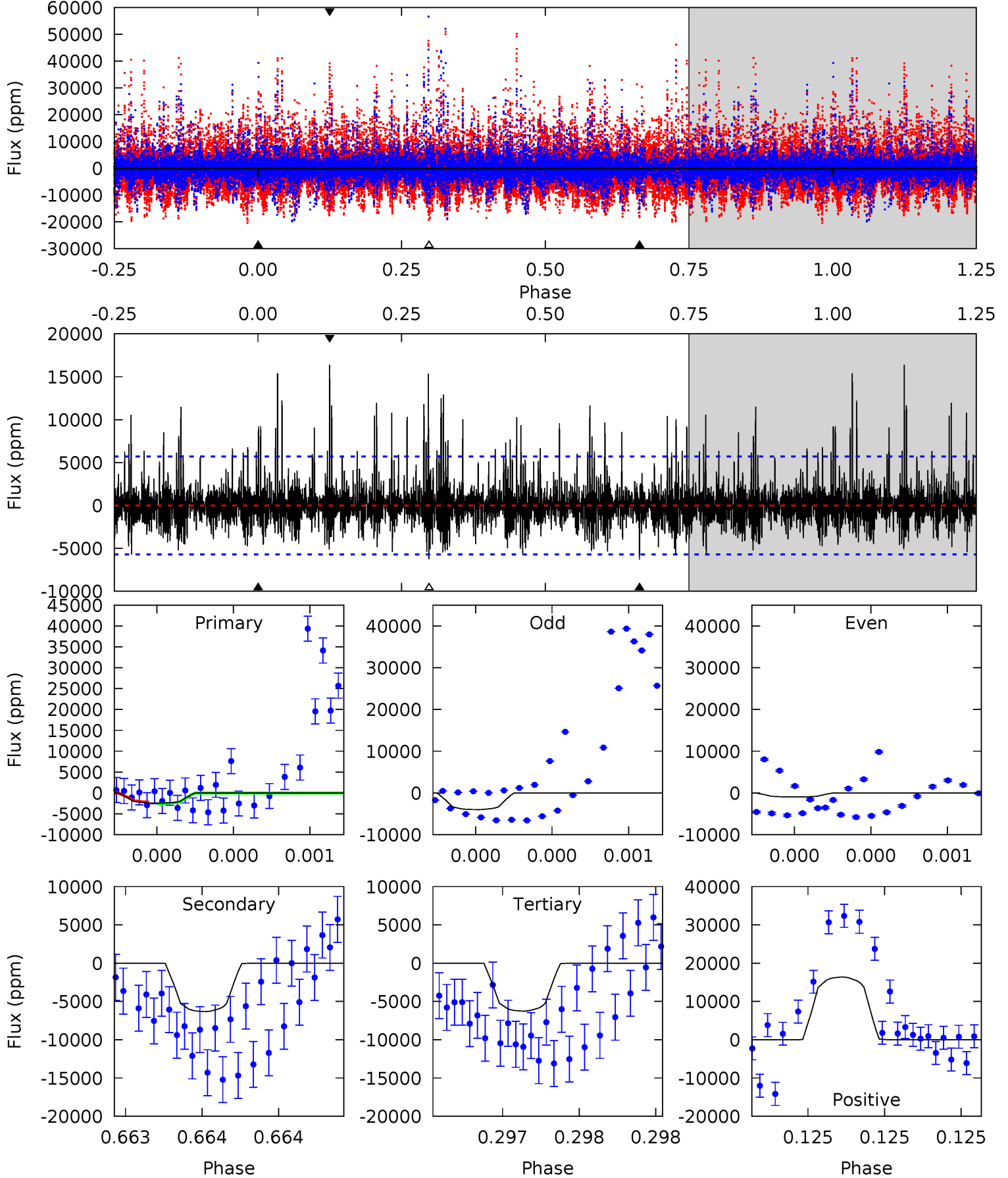
TCE 008264617-04 $P=215.005909$ Days $T_0=240.445285$ (BKJD)



DV Model-Shift Uniqueness Test

008264617-04, P = 215.001184 Days, E = 25.419689 Days

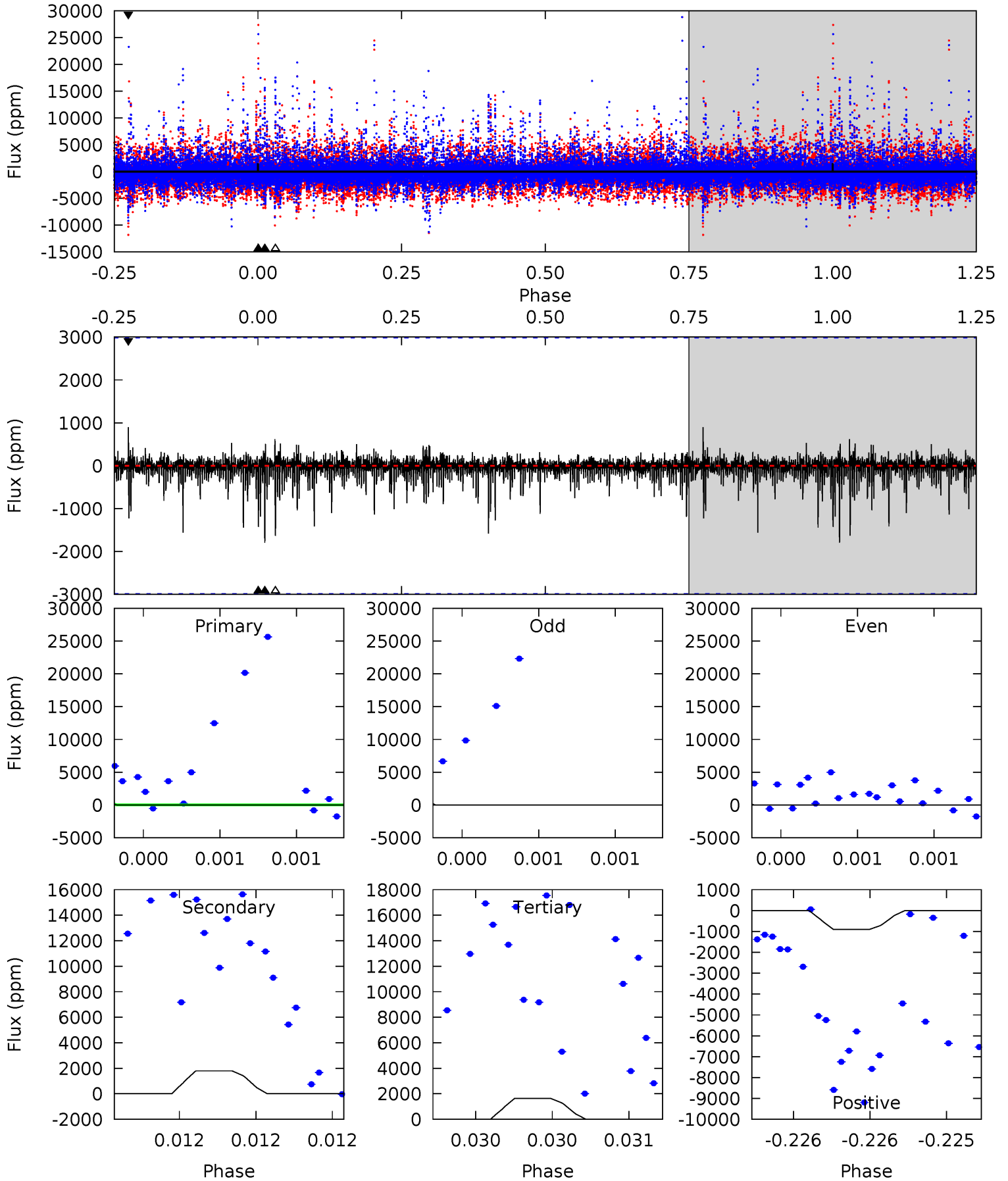
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.39	6.19	6.13	16.0	5.58	3.49	2.00	-3.74	-13.6	0.06	-9.84	1.14	0.28	0.72	0.18



Alt Model-Shift Uniqueness Test

008264617-04, P = 215.005909 Days, E = 25.439376 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.59	3.40	3.09	1.71	5.66	3.62	0.31	-0.50	0.88	0.31	1.70	0.71	1.70	0.33	0.71



Stellar Parameters For KIC 008264617

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7538^{+237}_{-316}	$4.123^{+0.148}_{-0.181}$	$-0.220^{+0.250}_{-0.350}$	$1.766^{+0.505}_{-0.413}$	$1.510^{+0.219}_{-0.241}$	$0.386^{+0.345}_{-0.183}$
	+3%/-4%	+4%/-4%	+114%/-159%	+29%/-23%	+15%/-16%	+89%/-47%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264617-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-6327 ± 1022	$9.24^{+9.09}_{-6.45}$	691^{+50}_{-49}	10574^{+30529}_{-3678}	$27126^{+264543}_{-20396}$
Alt.	-1796 ± 528	$8.14^{+9.11}_{-5.34}$	690^{+50}_{-47}	7271^{+10541}_{-2220}	8756^{+72962}_{-6776}

T_{max} = Theoretical Maximum Planetary Temperature
 T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)
 A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

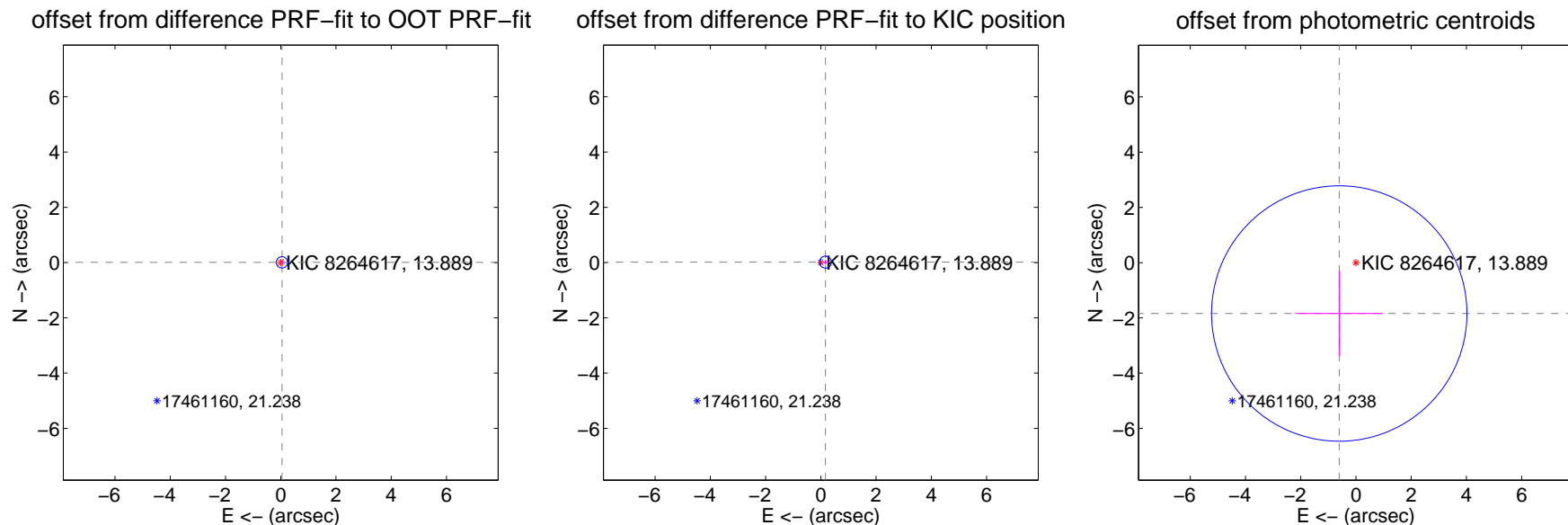
DV Centroid Data

Supplemental centroid analysis for 008264617-04. Kepler magnitude: 13.89. Transit SNR 2.01

There are 4 quarters with good PRF difference image offsets

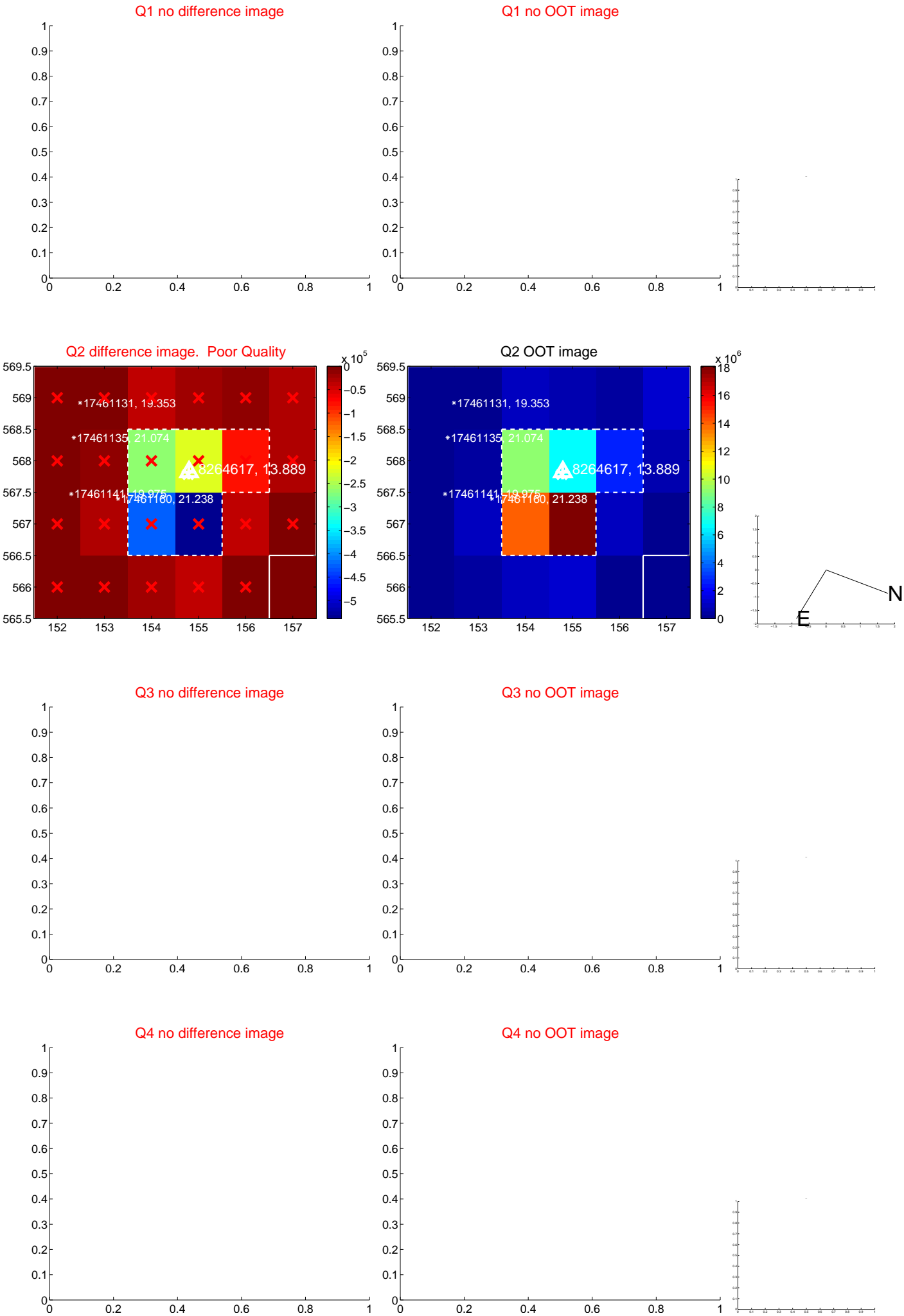
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.046 ± 0.068	0.67	-0.045 ± 0.068	0.008 ± 0.070
PRF-fit source offset from KIC position	0.166 ± 0.072	2.30	-0.165 ± 0.072	0.016 ± 0.080
photometric centroid source offset	1.94 ± 1.54	1.26	0.61 ± 1.58	-1.84 ± 1.54

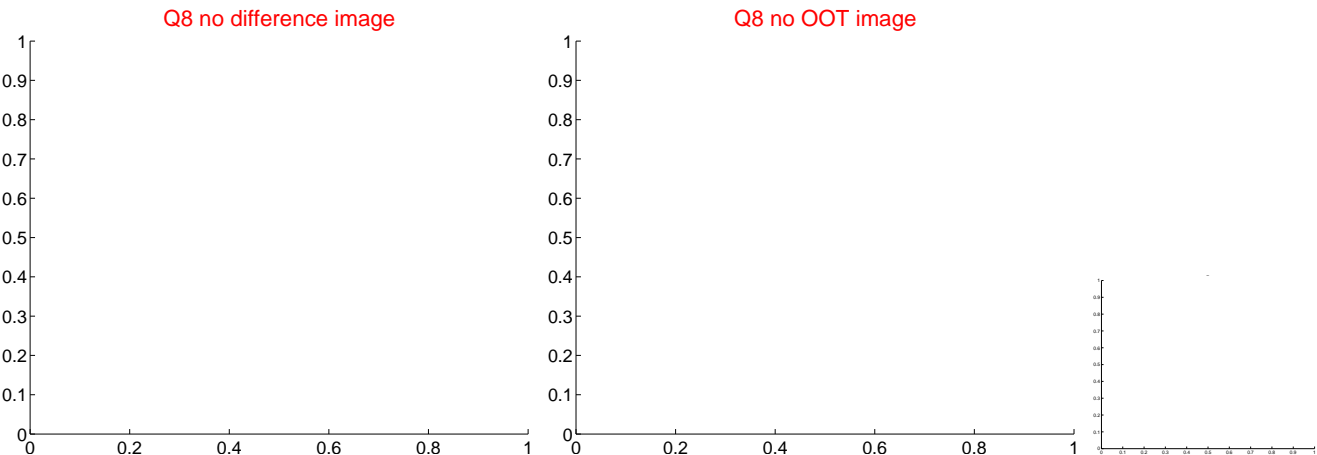
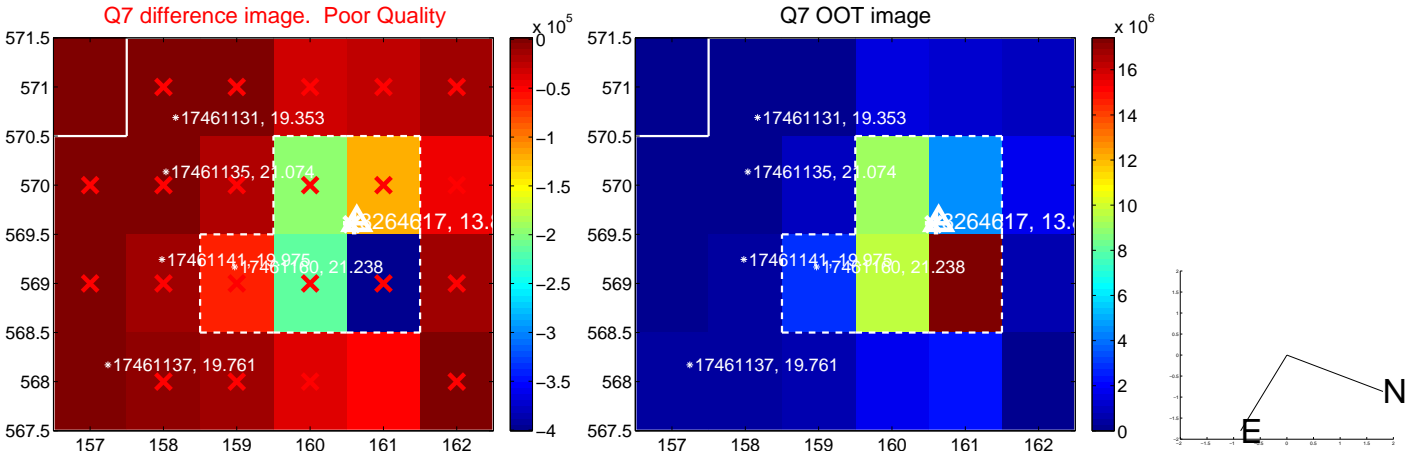
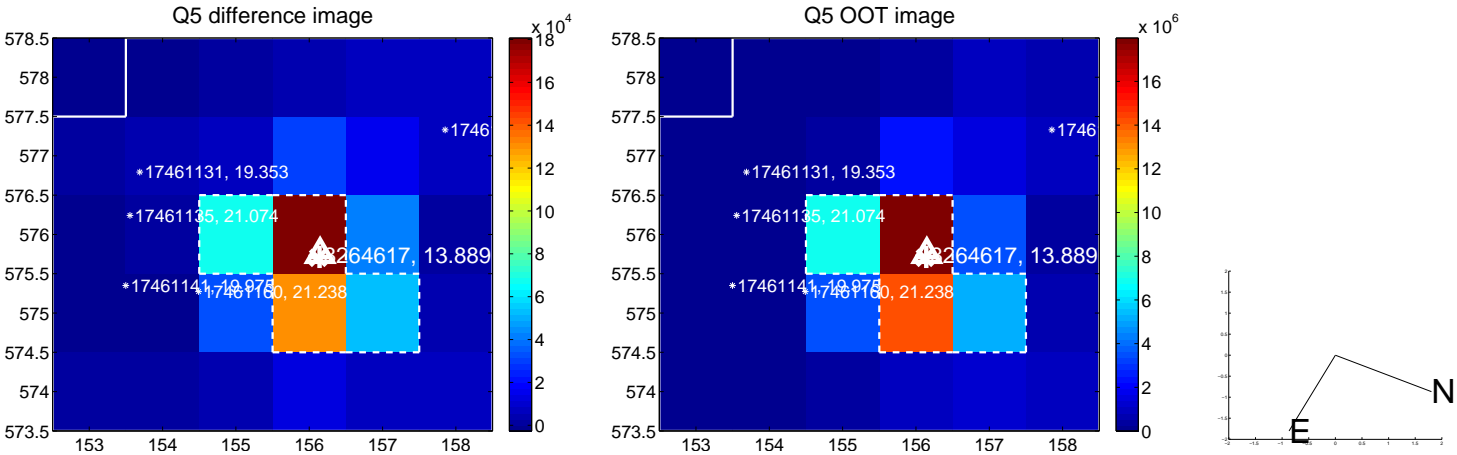


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

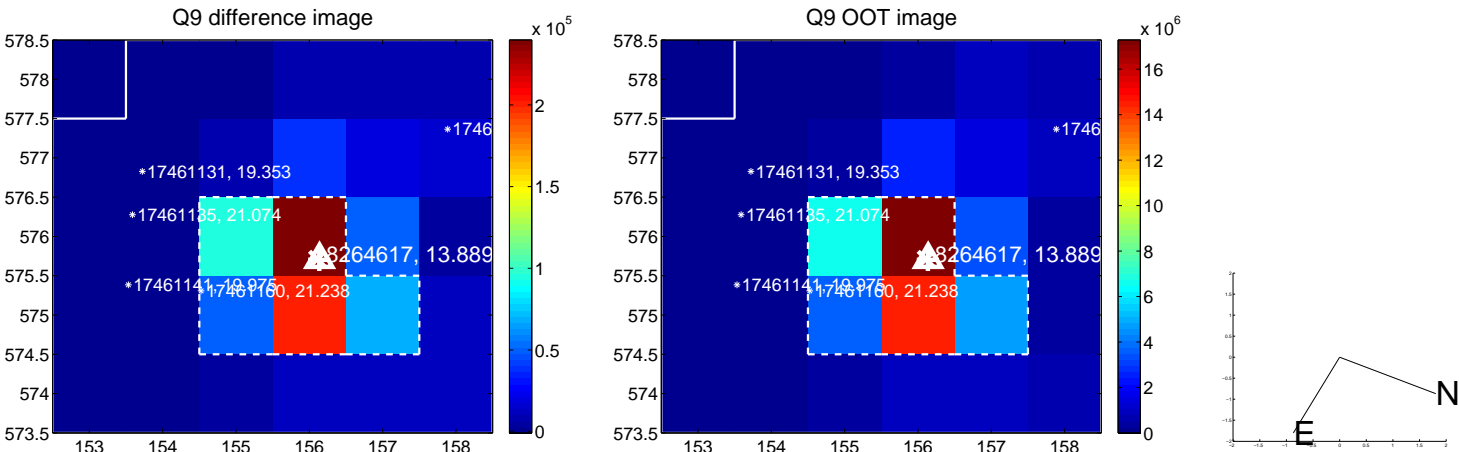
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

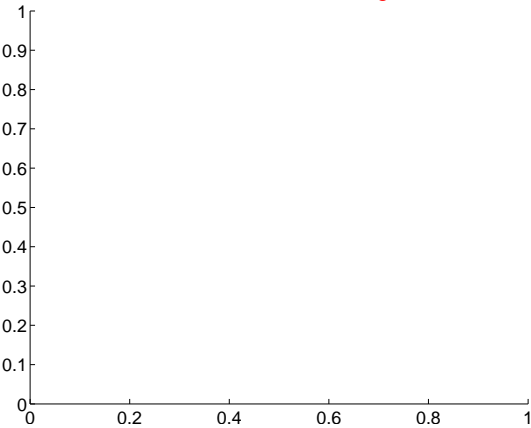


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

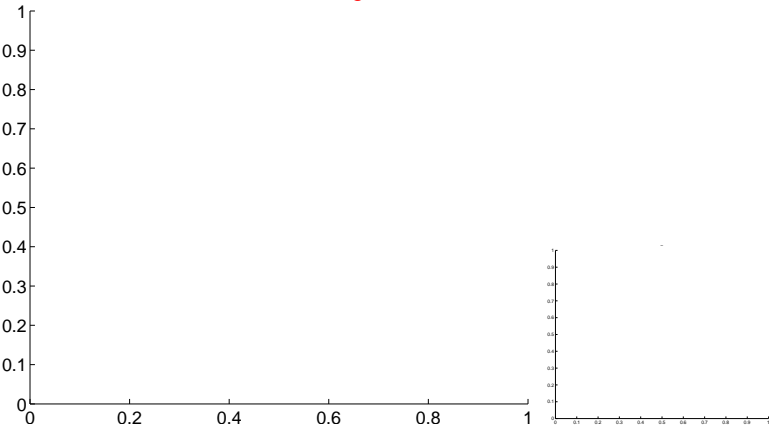


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

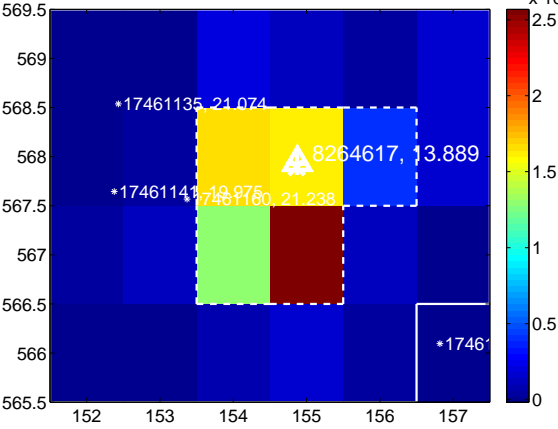
Q13 no difference image



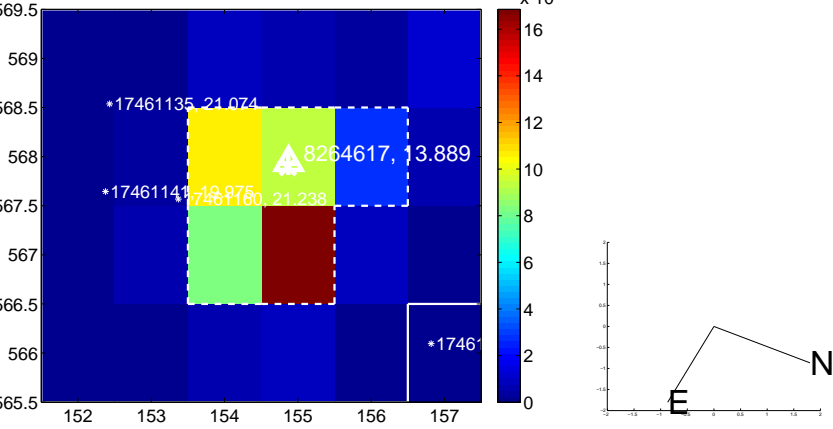
Q13 no OOT image



Q14 difference image



Q14 OOT image



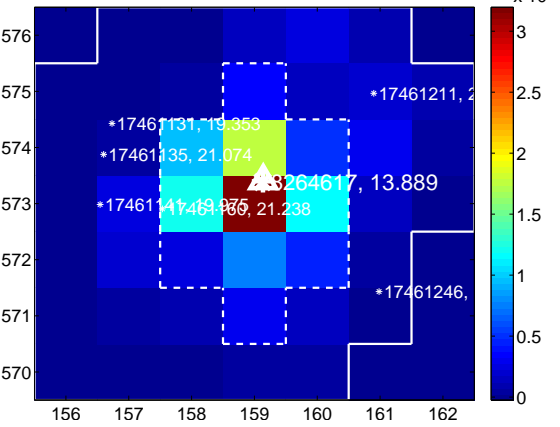
Q15 no difference image



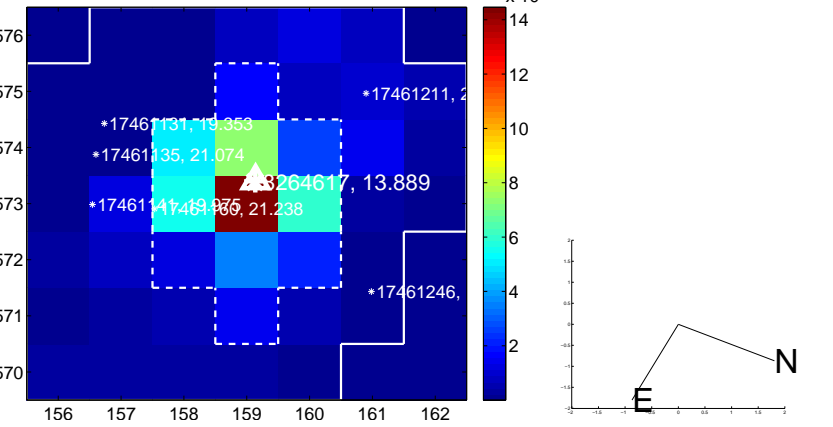
Q15 no OOT image



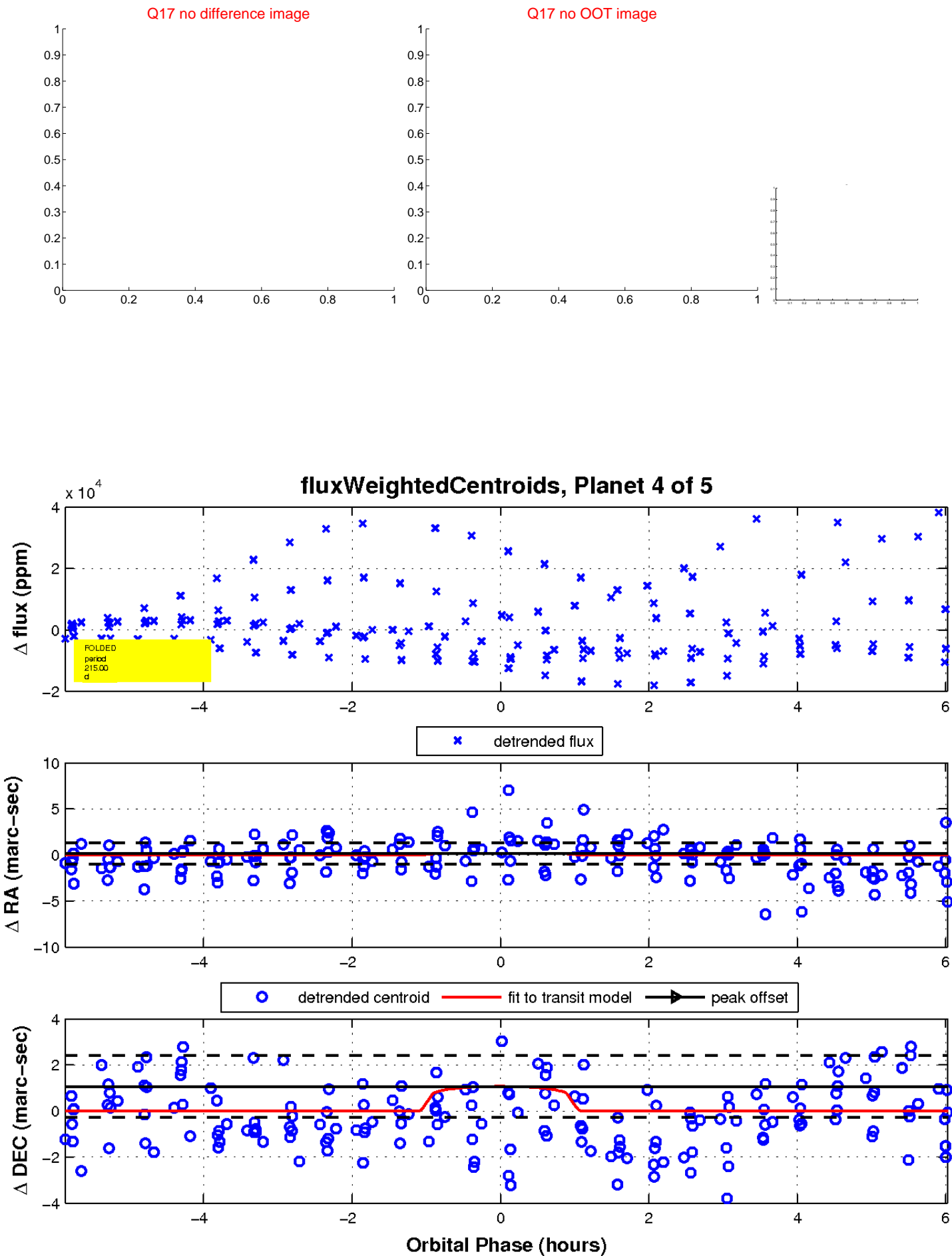
Q16 difference image



Q16 OOT image

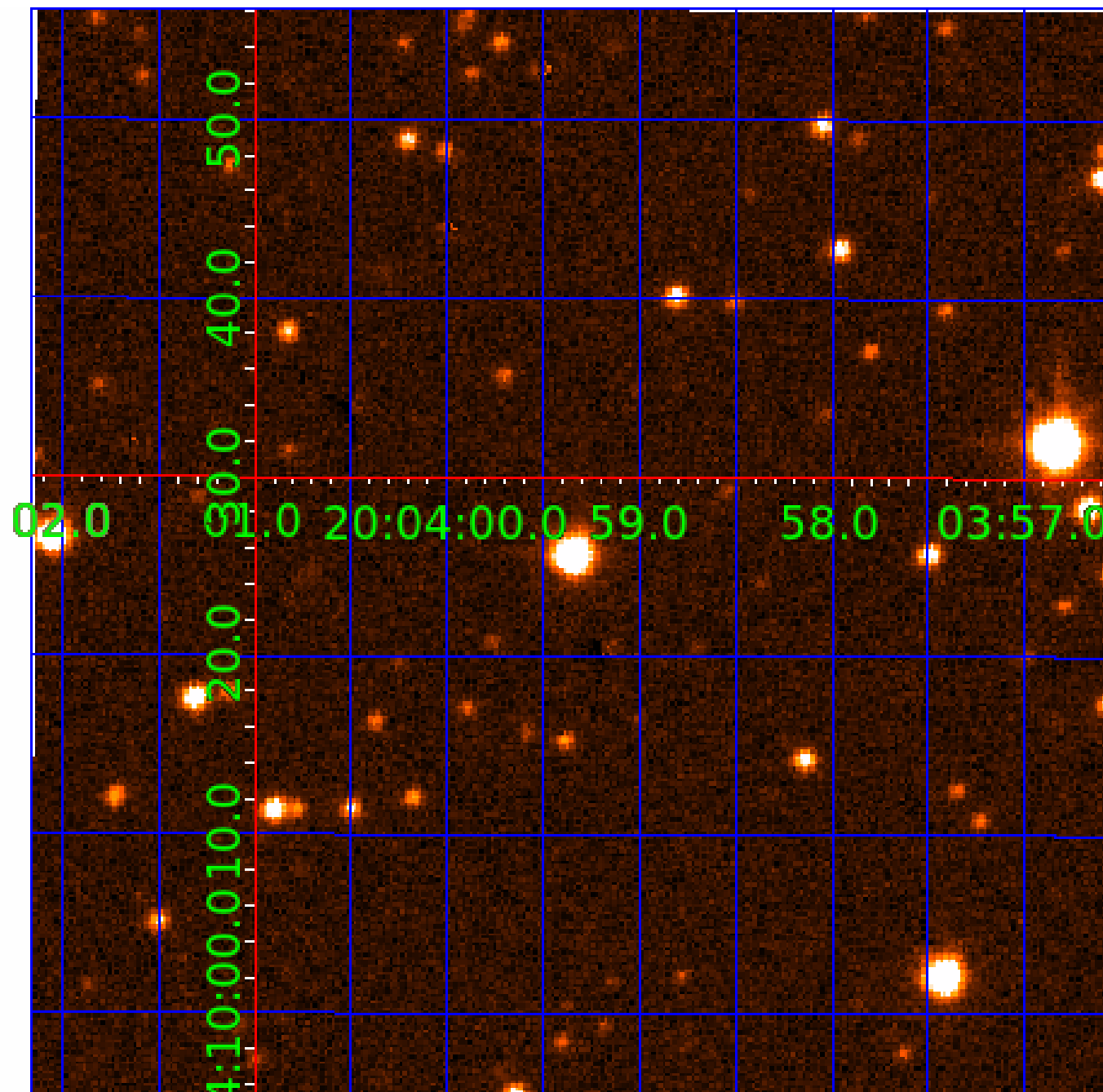


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264617

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
008264617-01	OBS	No	517.851323	278.152414	3594.9	14.178	29.3	3.1	1.77	7538	10.66	4.30
008264617-02	OBS	No	386.638685	438.161312	8590.0	16.310	29.1	6.9	1.77	7538	16.46	6.35
008264617-03	OBS	No	352.703184	237.363302	2010.0	3.000	25.8	-1.0	1.77	7538	7.97	7.18
008264617-04	OBS	No	215.001184	240.420873	569.3	2.033	21.8	2.0	1.77	7538	4.34	13.89
008264617-05	OBS	No	397.741702	457.790136	1497.1	4.589	22.3	1.7	1.77	7538	8.46	6.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264617-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
008264617-02	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
008264617-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
008264617-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264617-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

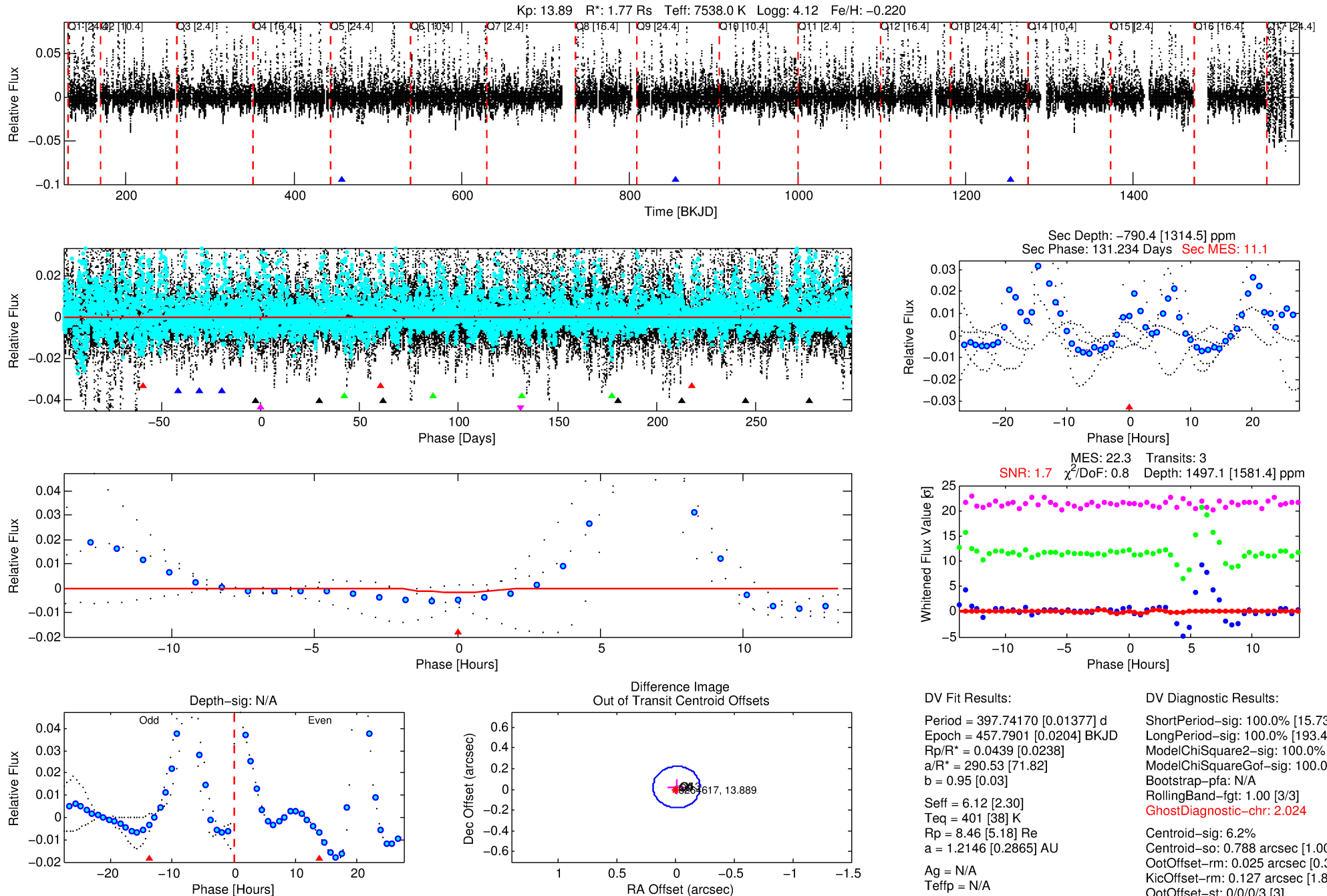
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264617-05

No Significant Match Found

DV One-Page Summary

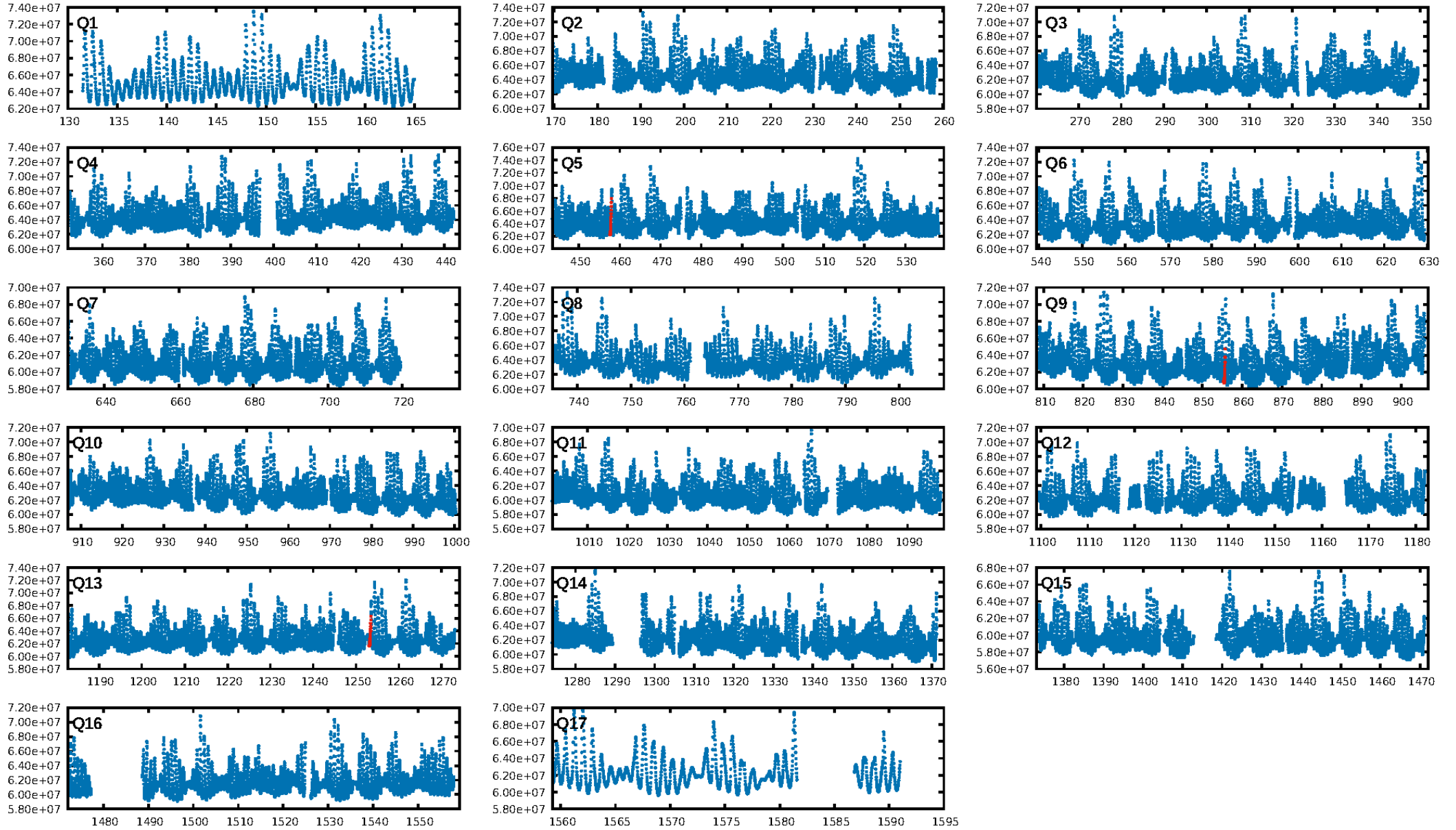
KIC: 8264617 Candidate: 5 of 5 Period: 397.742 d



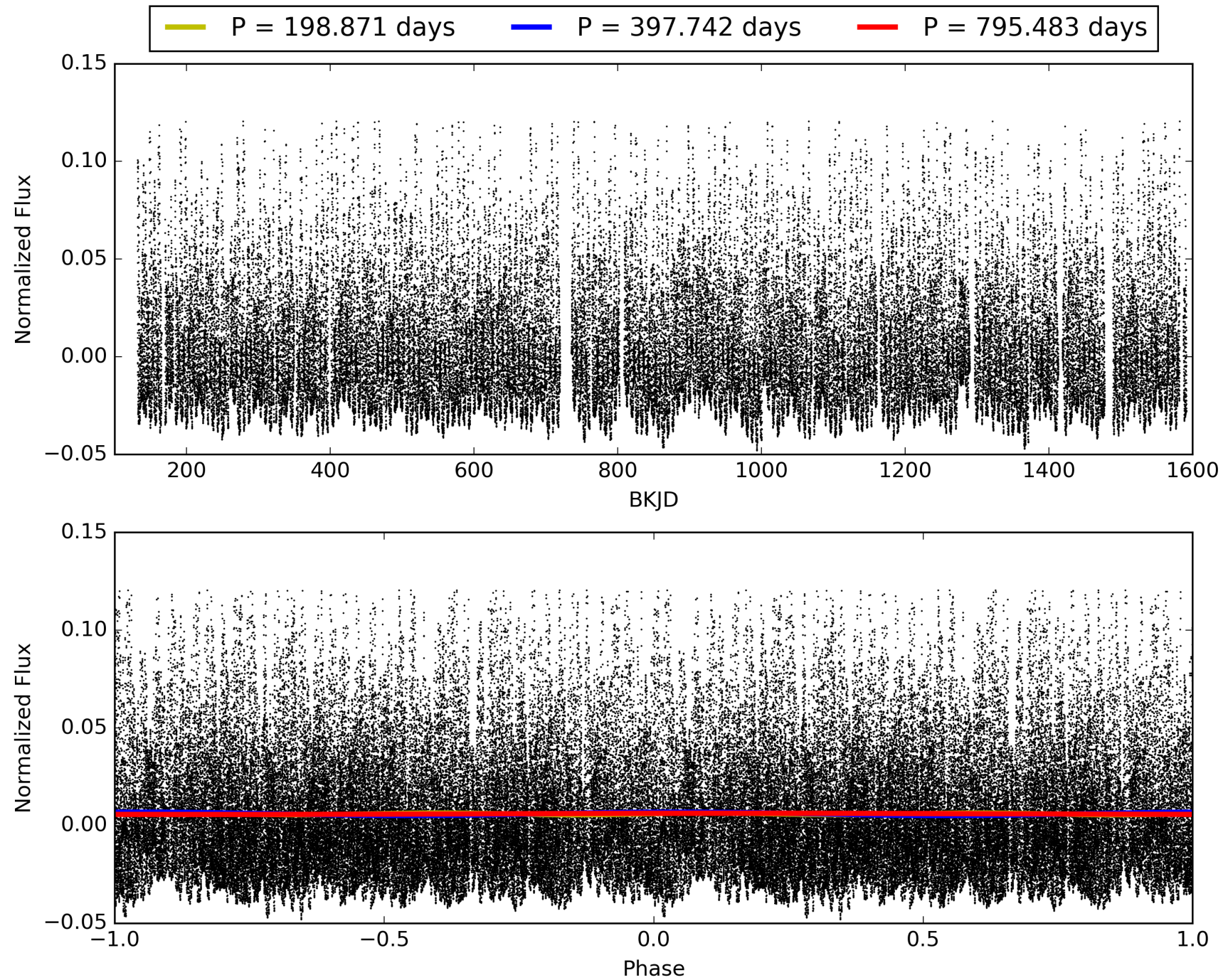
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:49:46 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264617-05, PDC Light Curves

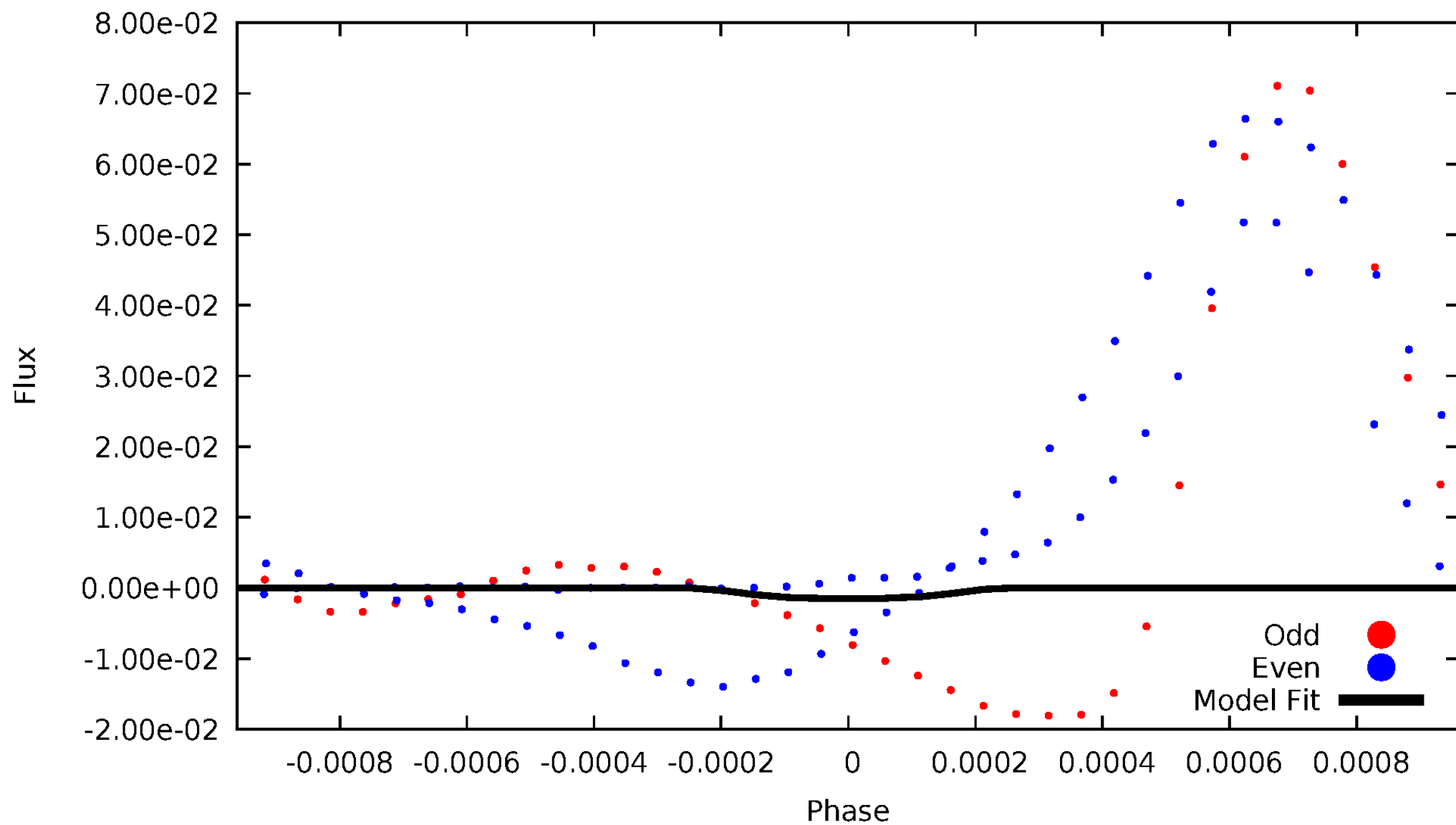


TCE 008264617-05



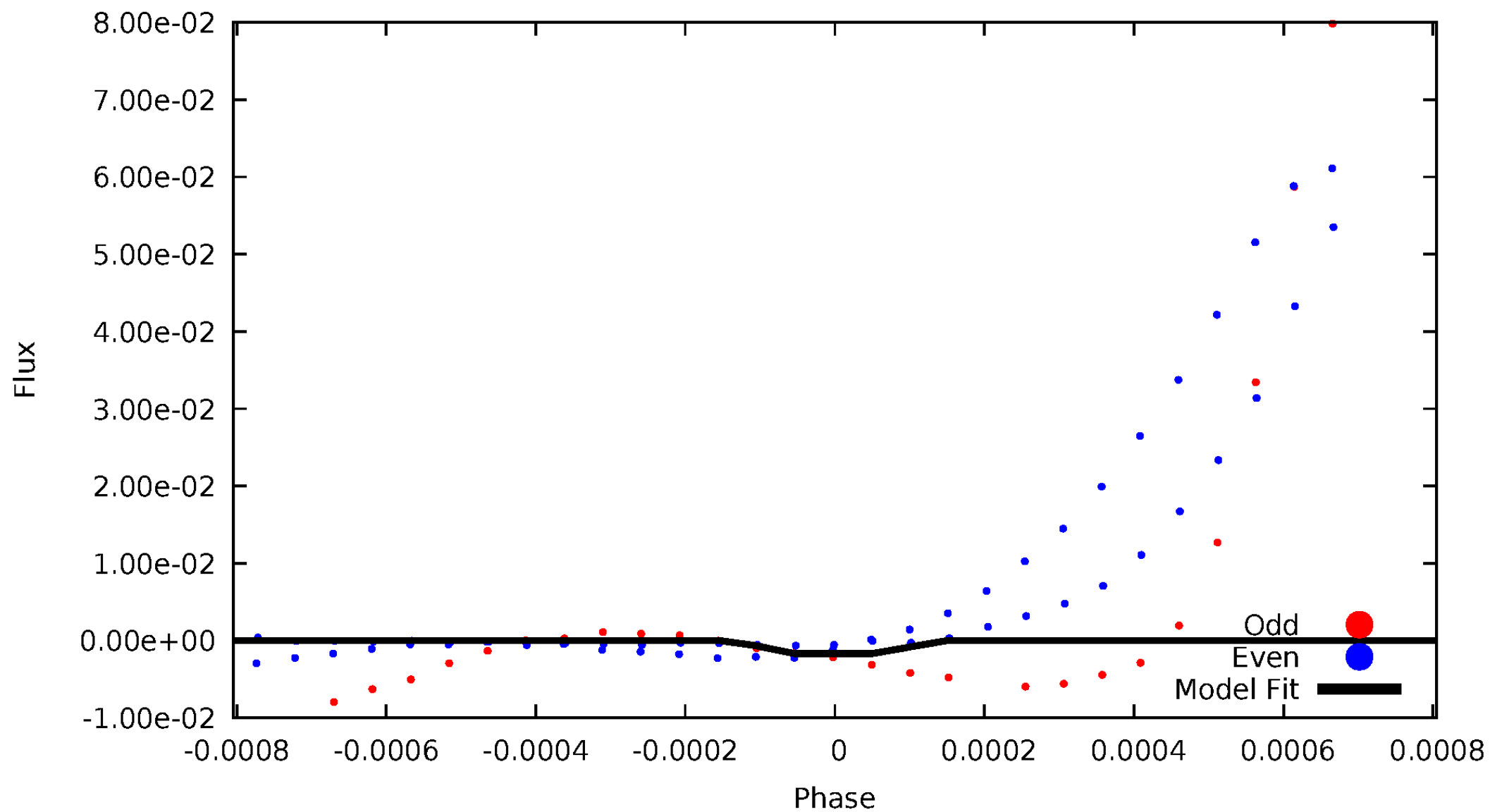
DV Odd/Even

TCE 008264617-05



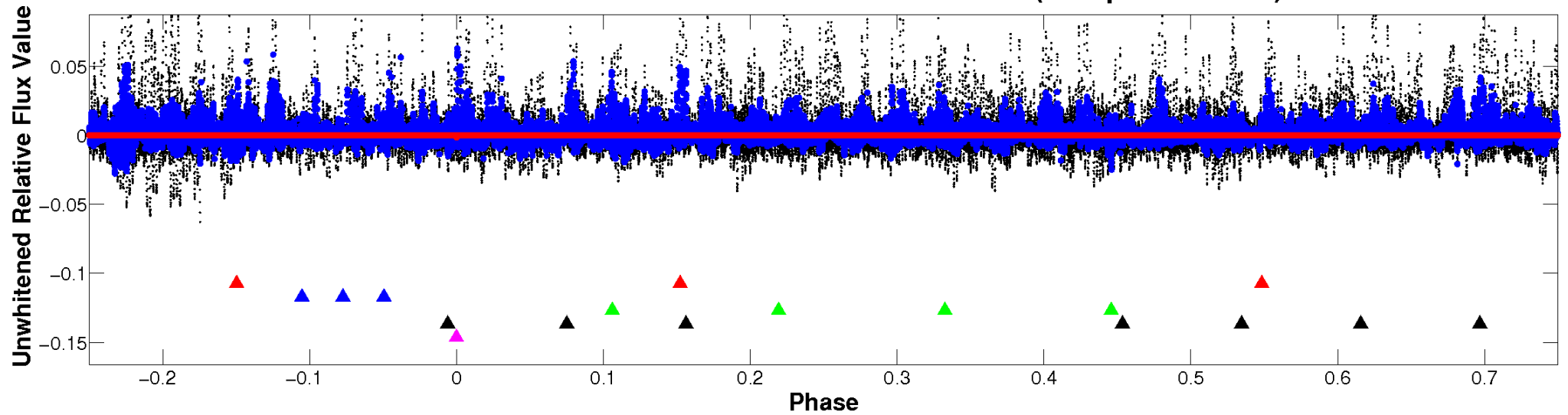
ALT Odd/Even

TCE 008264617-05

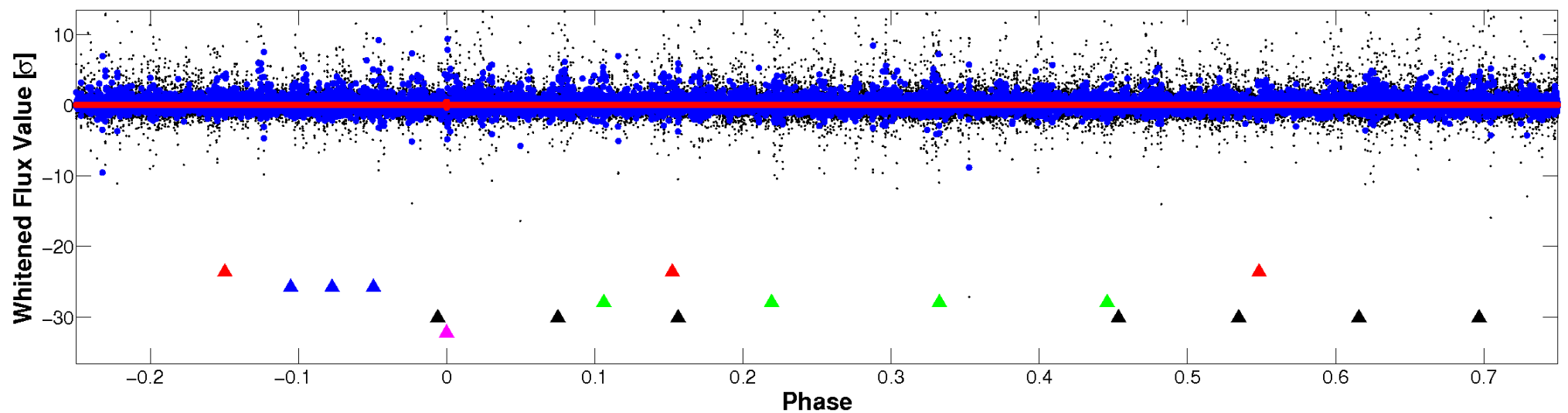


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

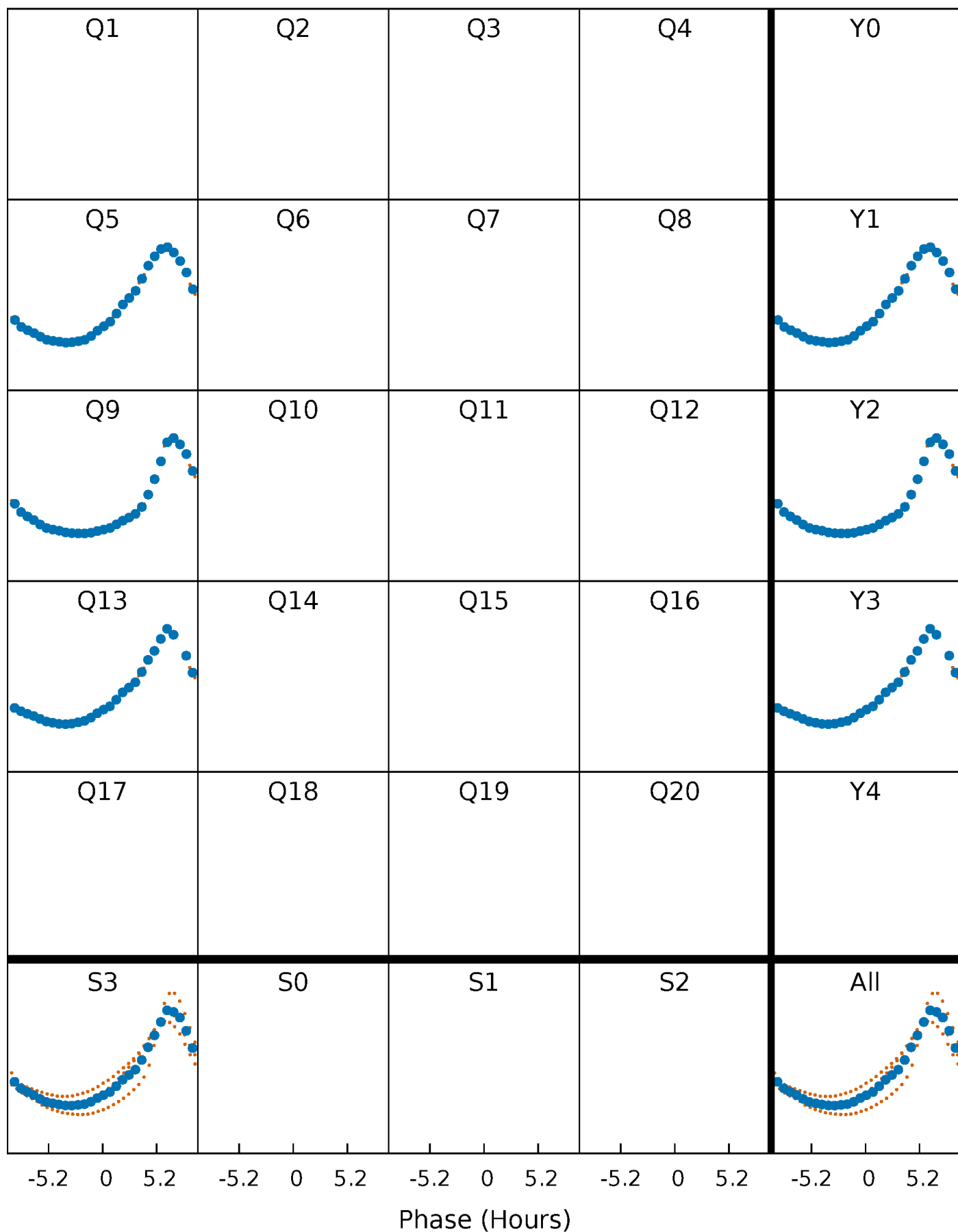


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



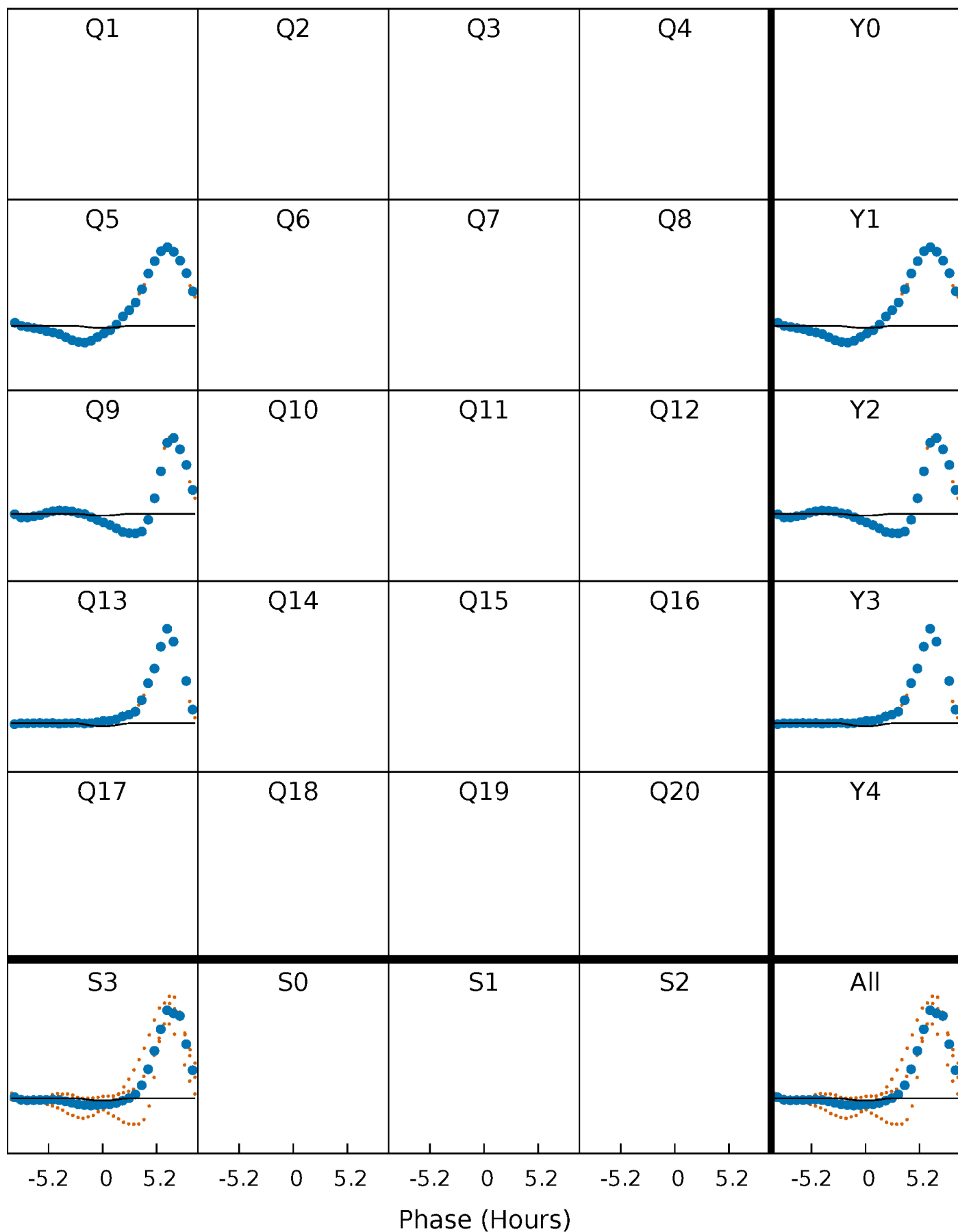
PDC Quarter-Phased Transit Curves

TCE 008264617-05 $P=397.741702$ Days $T_0=457.790136$ (BKJD)



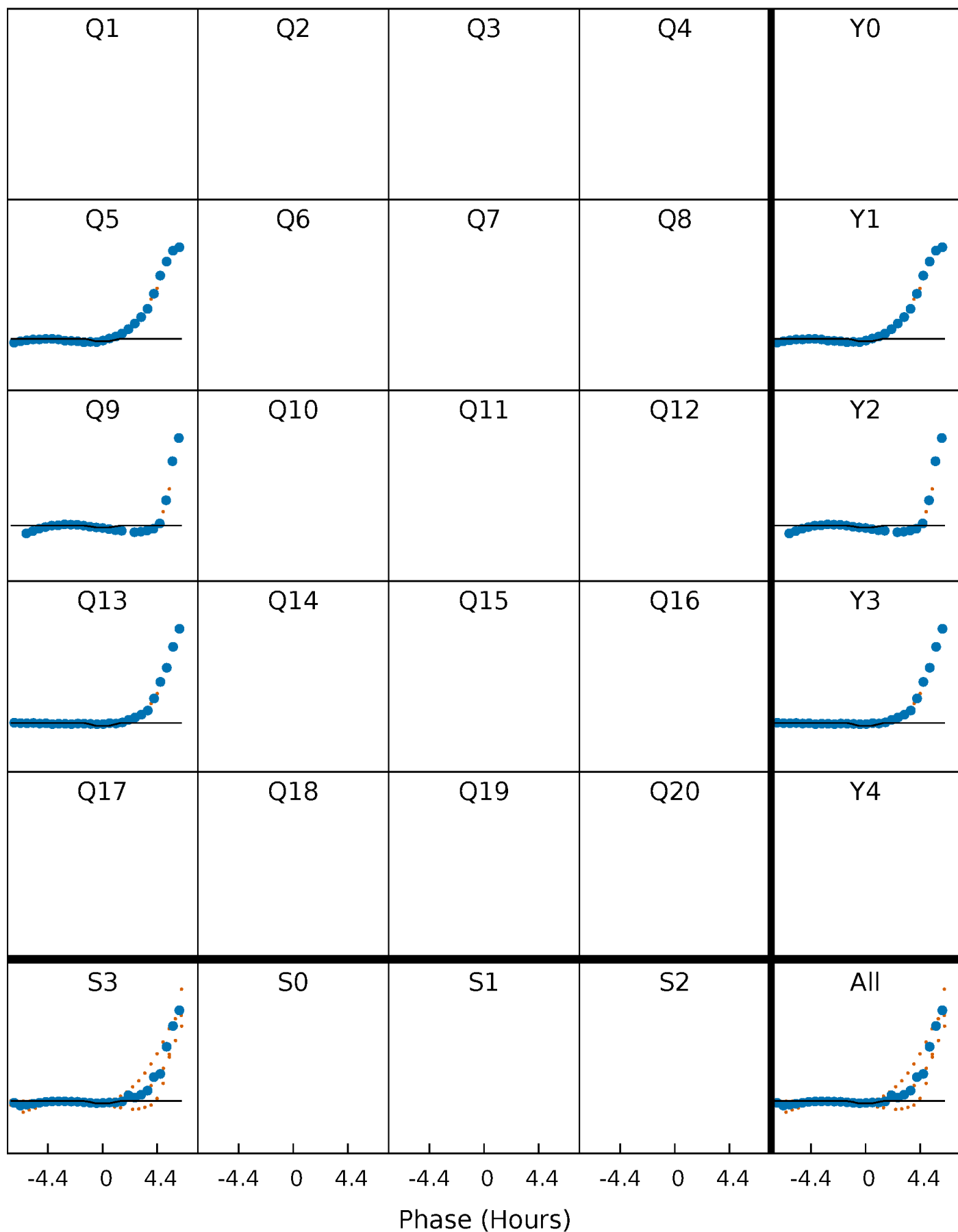
DV Quarter-Phased Transit Curves

TCE 008264617-05 $P=397.741702$ Days $T_0=457.790136$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

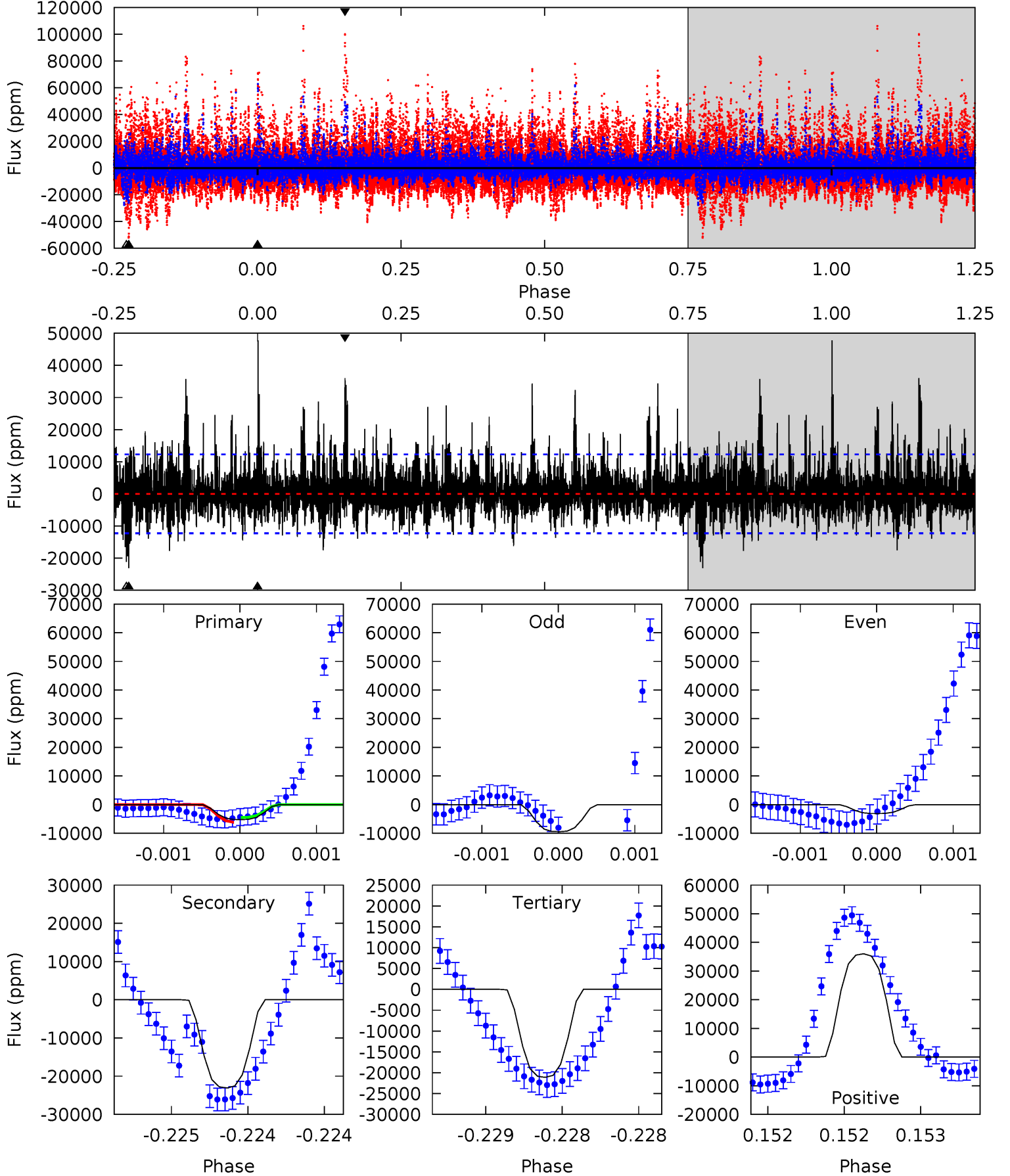
TCE 008264617-05 $P=397.740695$ Days $T_0=457.774270$ (BKJD)



DV Model-Shift Uniqueness Test

008264617-05, P = 397.741702 Days, E = 60.048434 Days

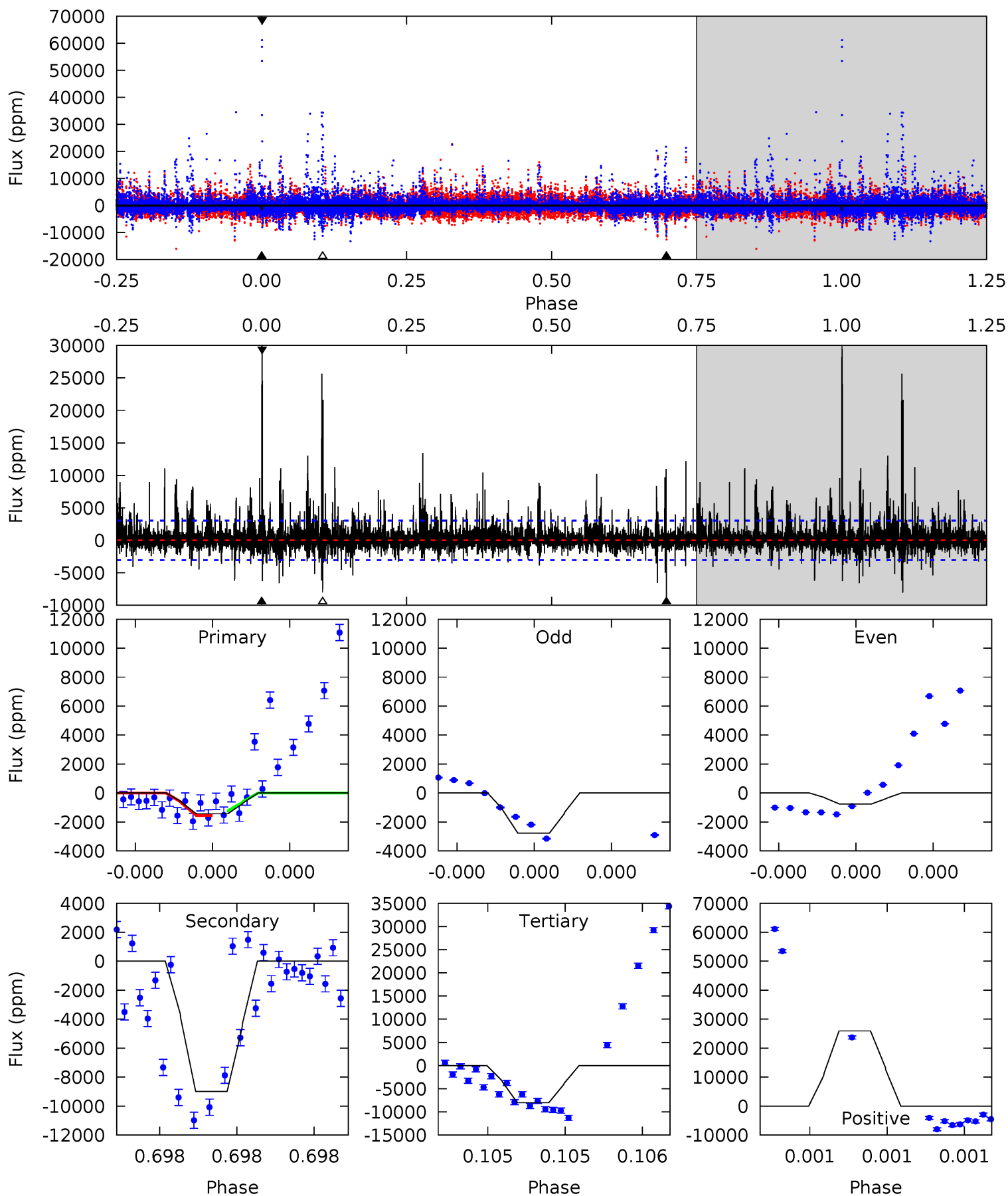
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.37	10.5	9.57	16.3	5.57	3.47	2.64	-7.20	-14.0	0.89	-5.87	1.06	0.69	0.67	0.38



Alt Model-Shift Uniqueness Test

008264617-05, P = 397.740695 Days, E = 60.033575 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.69	16.8	15.0	48.5	5.69	3.66	2.70	-12.3	-45.8	1.81	-31.7	1.27	1.40	0.77	0.29



Stellar Parameters For KIC 008264617

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7538^{+237}_{-316}	$4.123^{+0.148}_{-0.181}$	$-0.220^{+0.250}_{-0.350}$	$1.766^{+0.505}_{-0.413}$	$1.510^{+0.219}_{-0.241}$	$0.386^{+0.345}_{-0.183}$
	+3%/-4%	+4%/-4%	+114%/-159%	+29%/-23%	+15%/-16%	+89%/-47%
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264617-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-23070 ± 2206	$8.88^{+5.07}_{-4.39}$	562^{+45}_{-39}	20560^{+29857}_{-7190}	$242461^{+705026}_{-144009}$
Alt.	-8990 ± 535	$8.20^{+4.79}_{-4.03}$	565^{+45}_{-41}	13477^{+15052}_{-3842}	$109431^{+295196}_{-66692}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming A=0.3)

A_{obs} = Observed Albedo (Assuming T=0)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

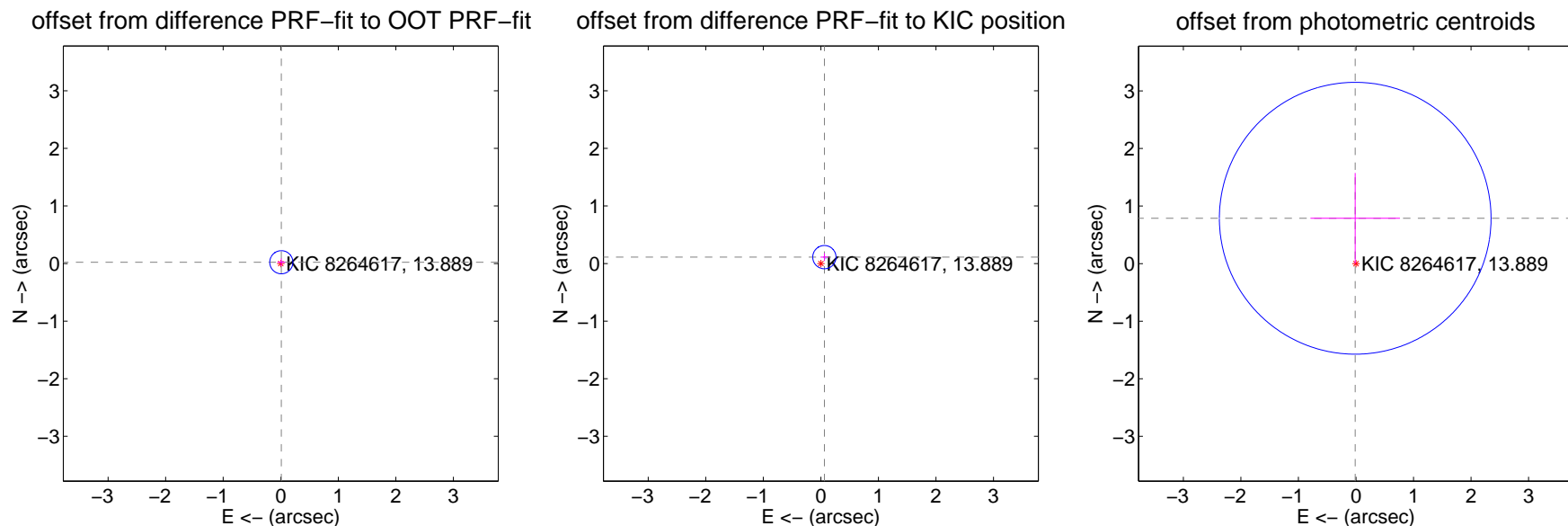
DV Centroid Data

Supplemental centroid analysis for 008264617-05. Kepler magnitude: 13.89. Transit SNR 1.74

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.025 ± 0.067	0.37	-0.010 ± 0.067	0.022 ± 0.067
PRF-fit source offset from KIC position	0.127 ± 0.067	1.88	-0.061 ± 0.067	0.111 ± 0.067
photometric centroid source offset	0.79 ± 0.79	1.00	0.01 ± 0.78	0.79 ± 0.79

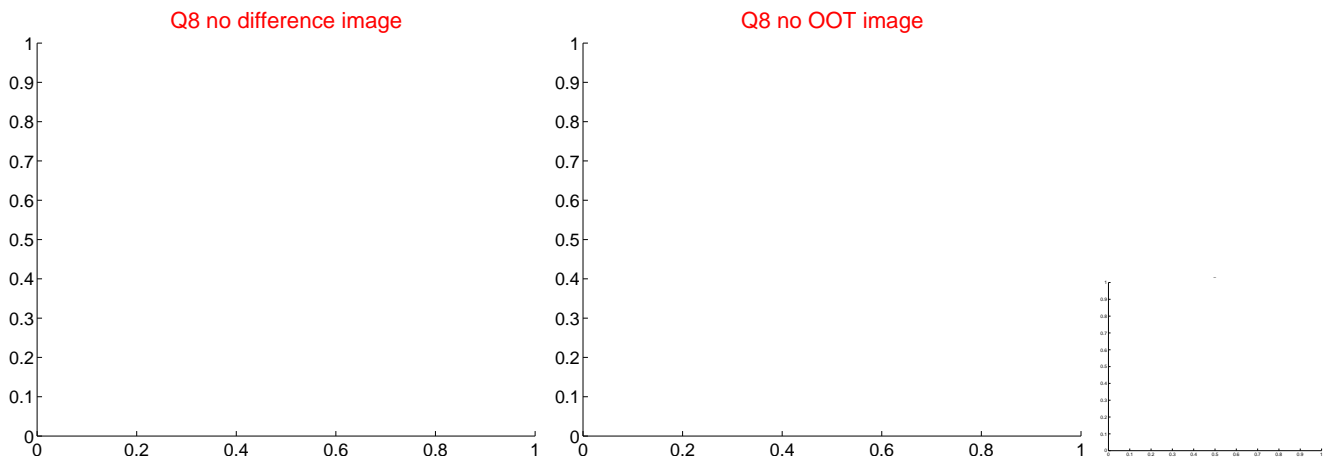
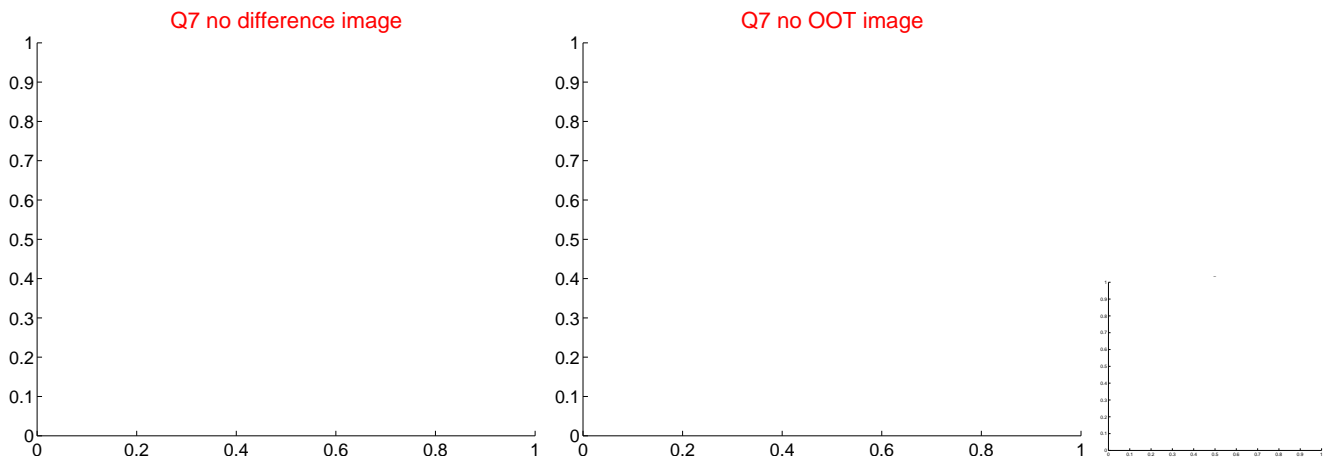
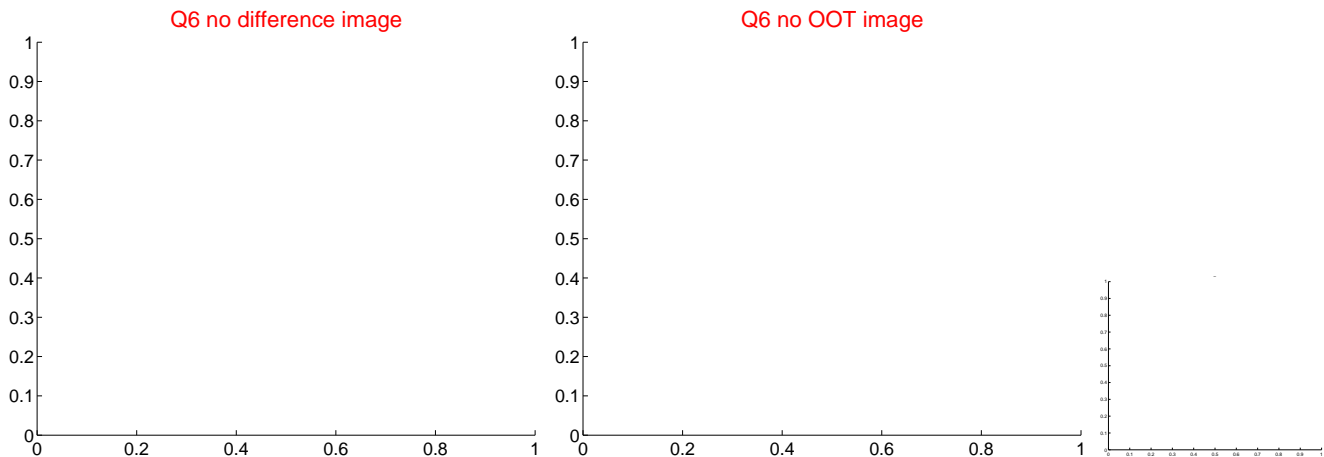
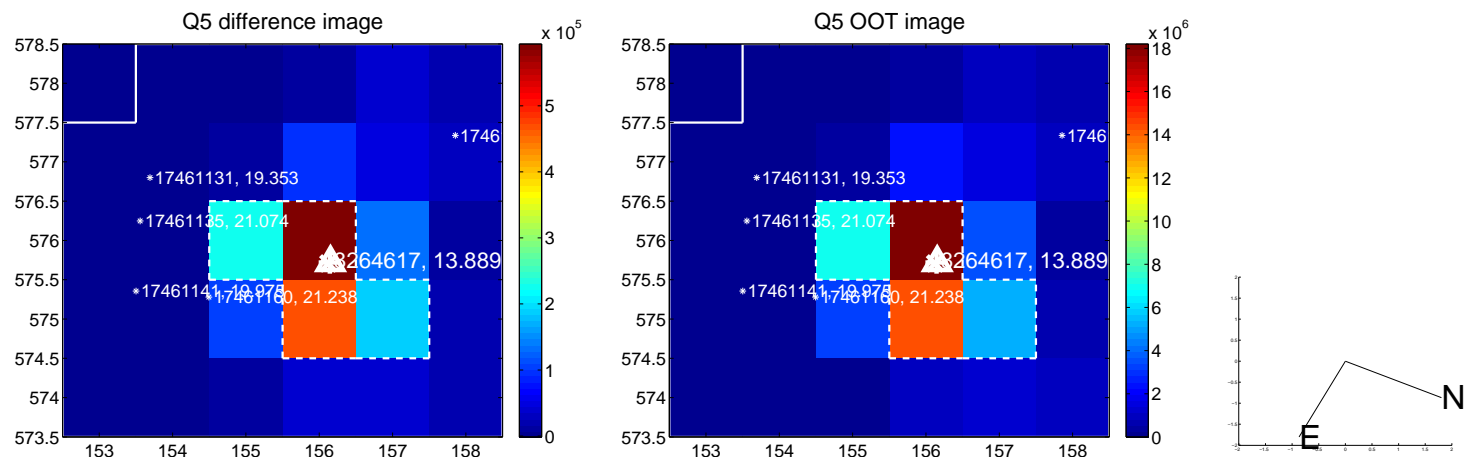


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

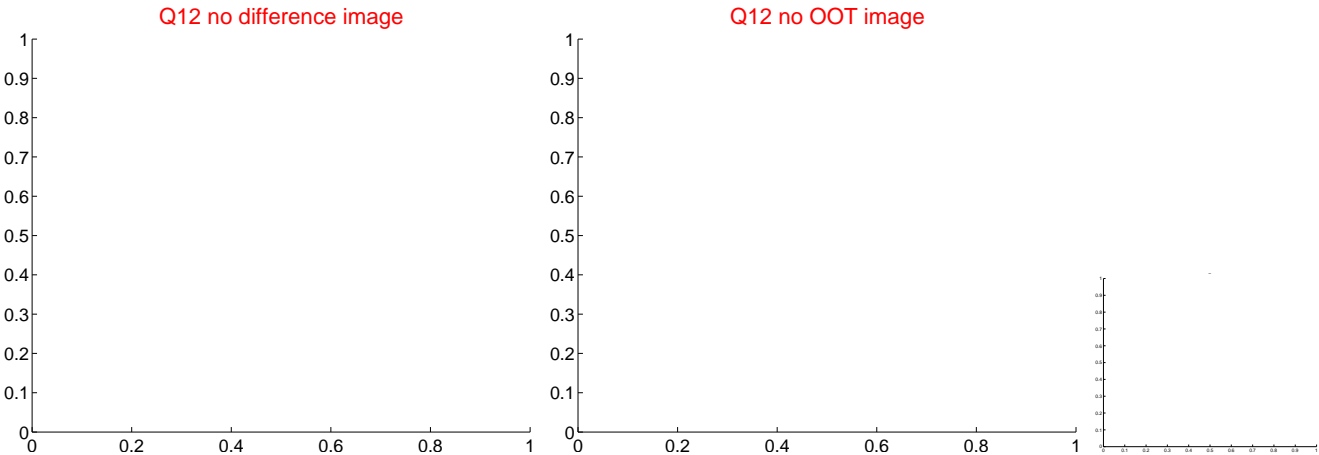
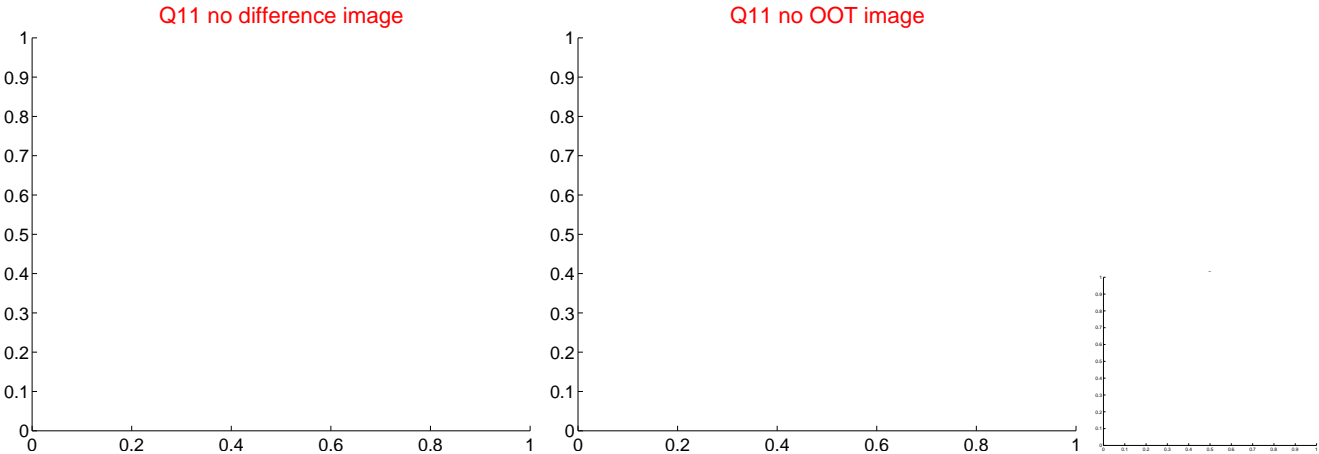
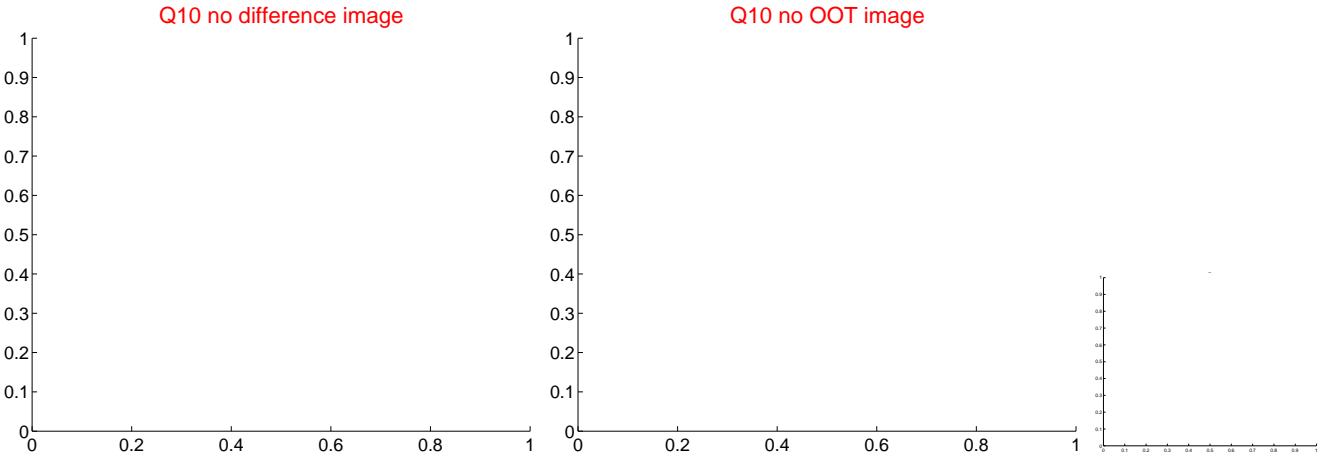
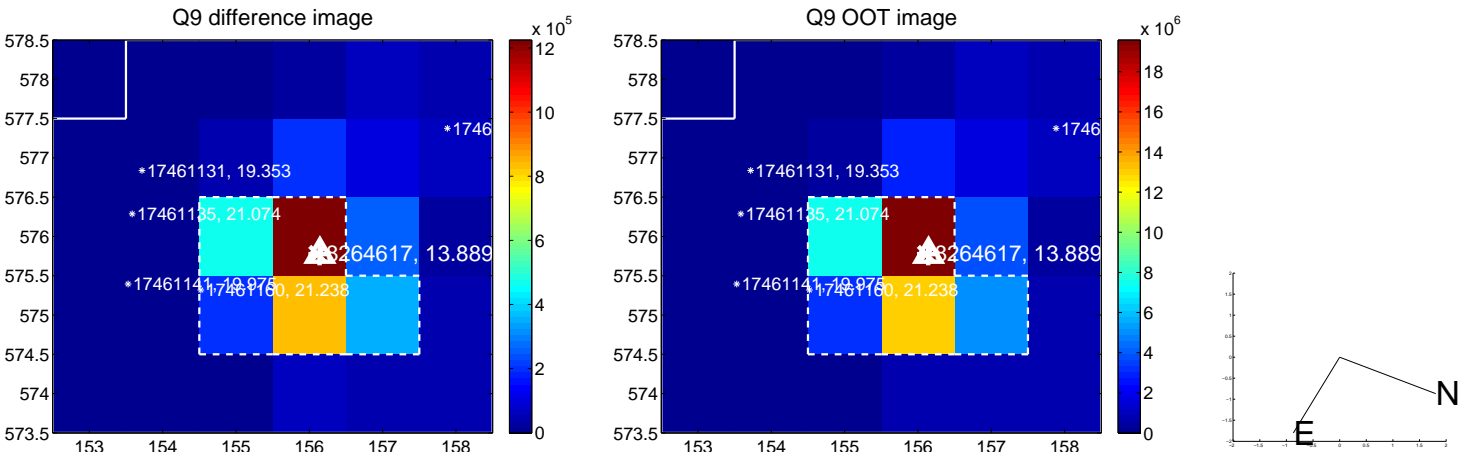
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



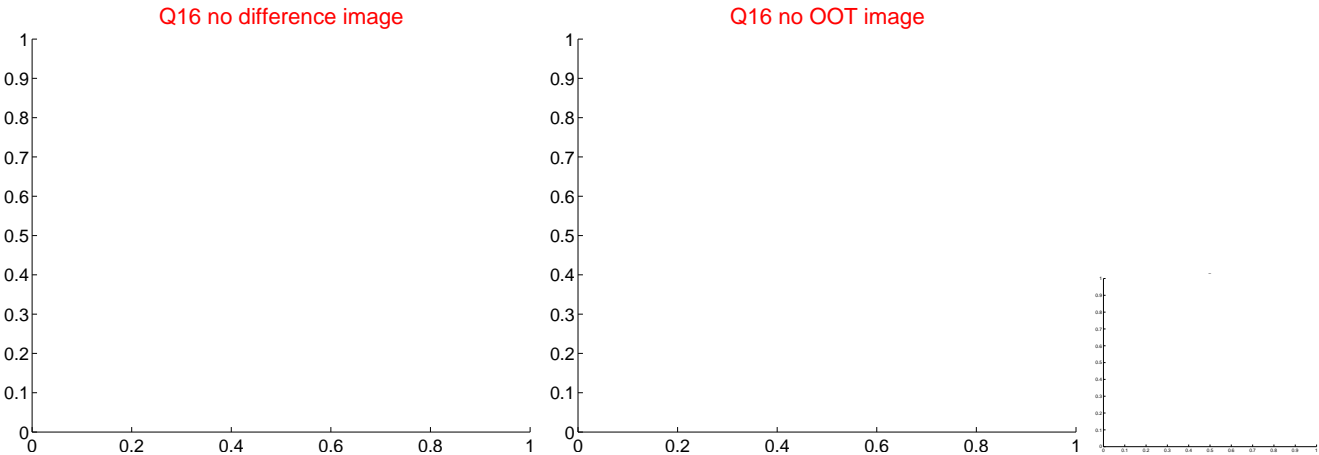
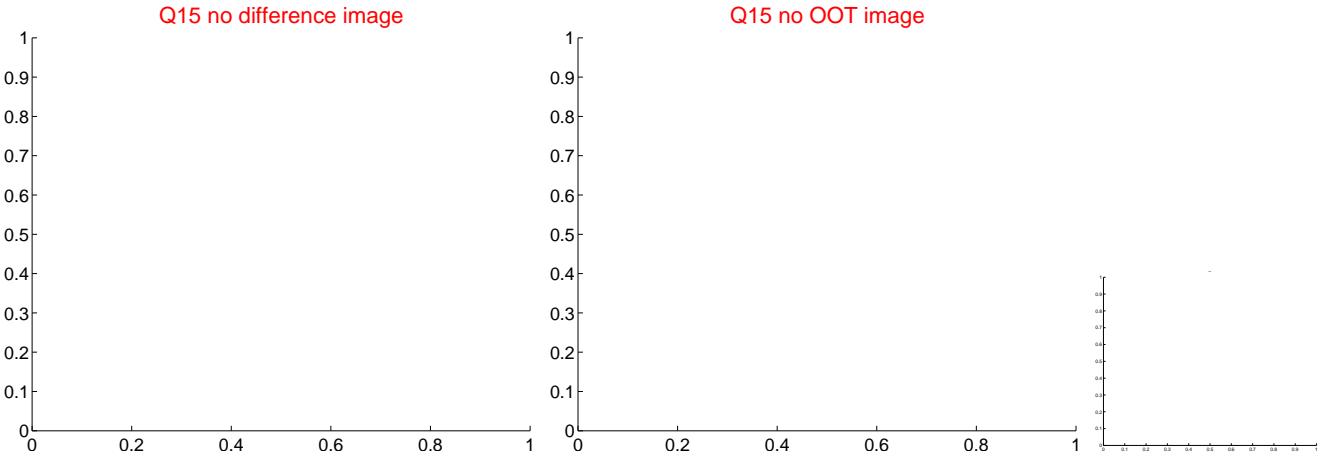
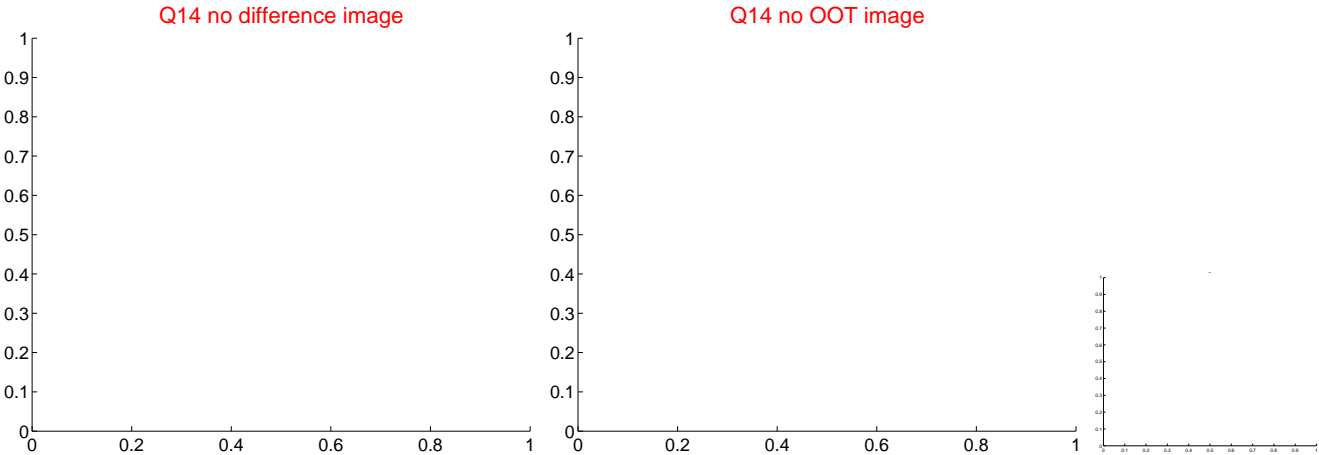
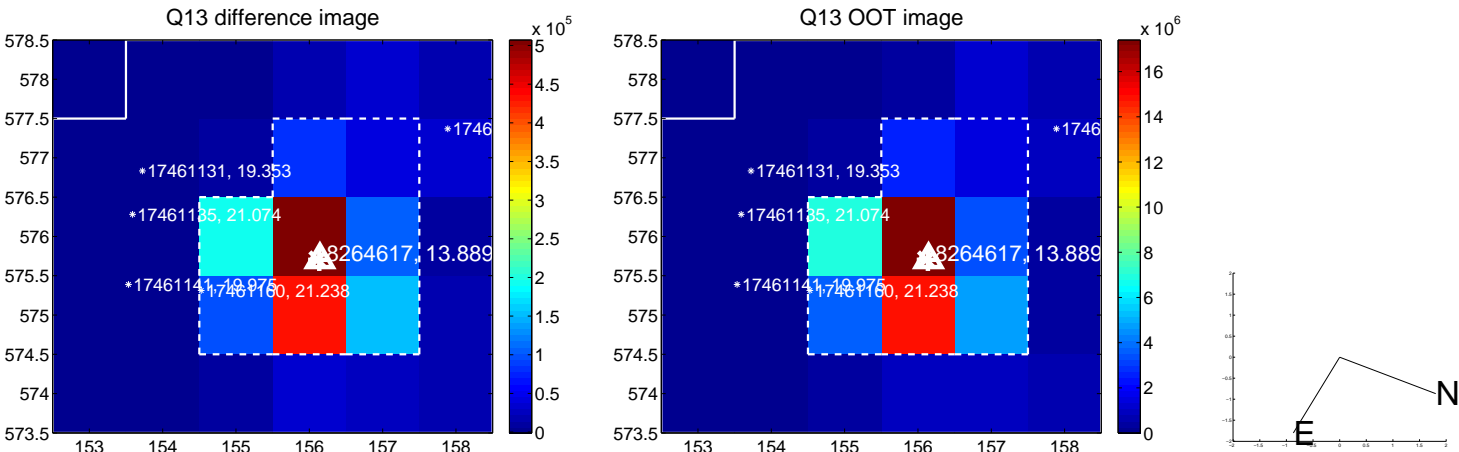
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



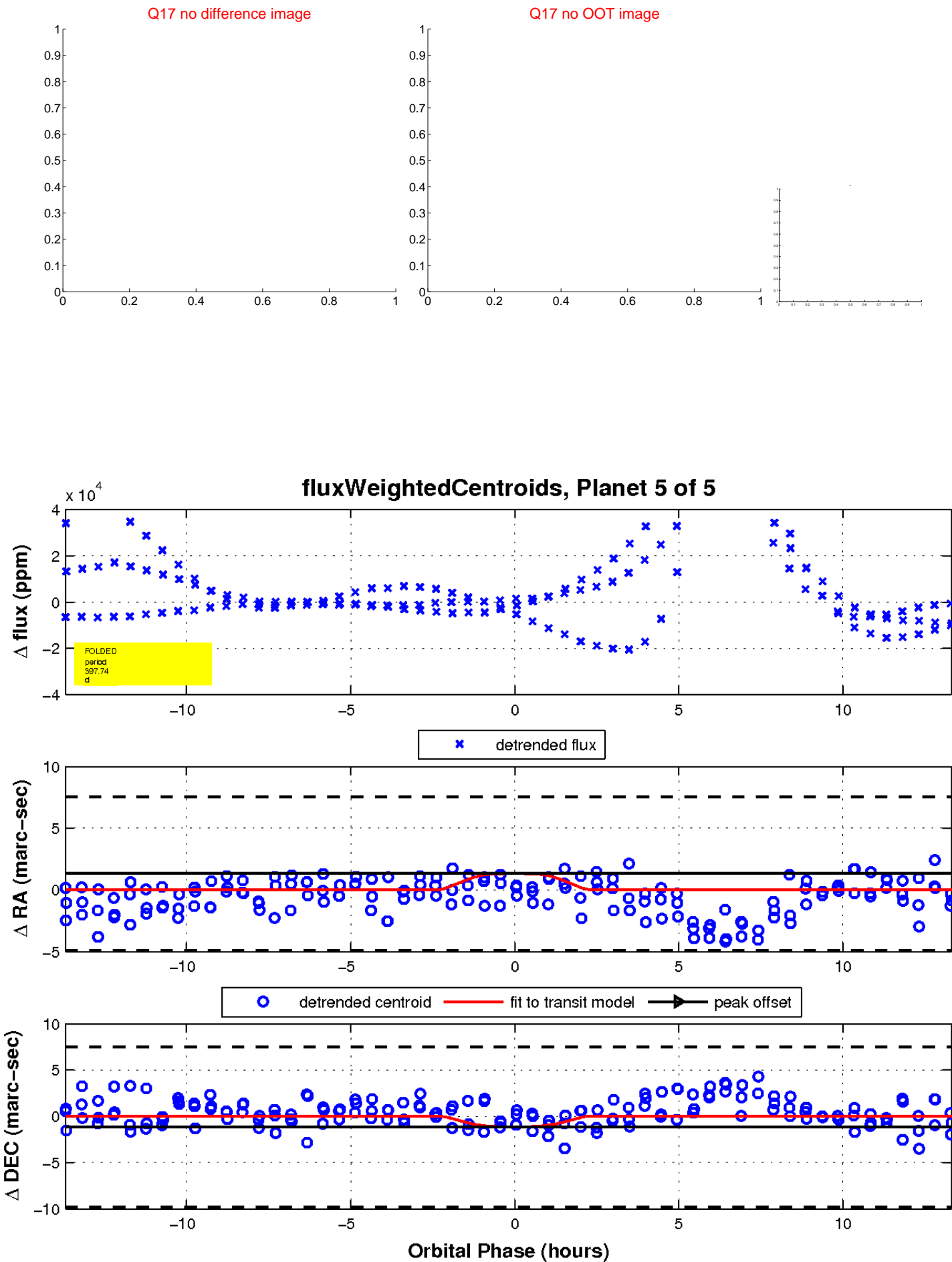
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

