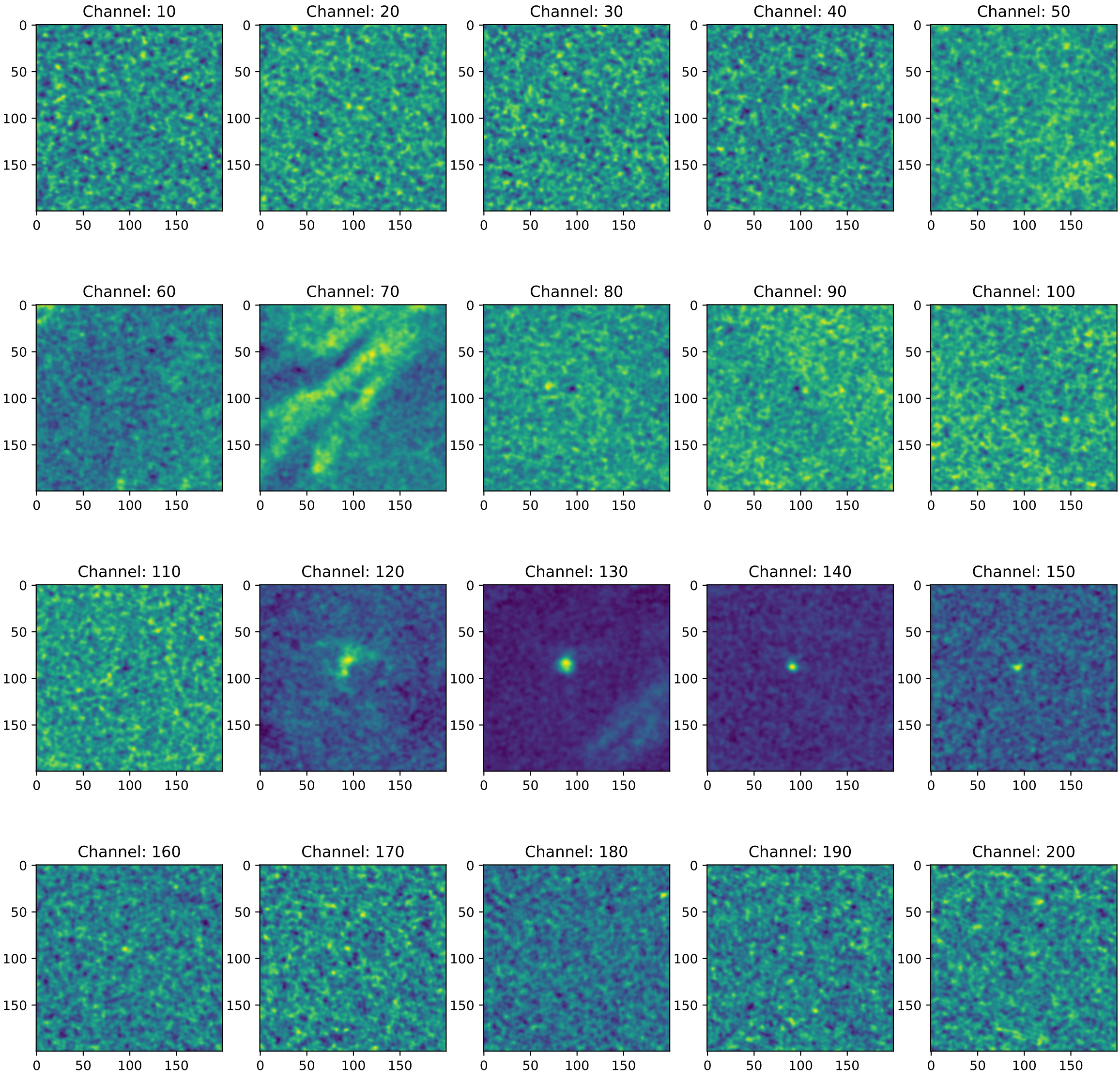
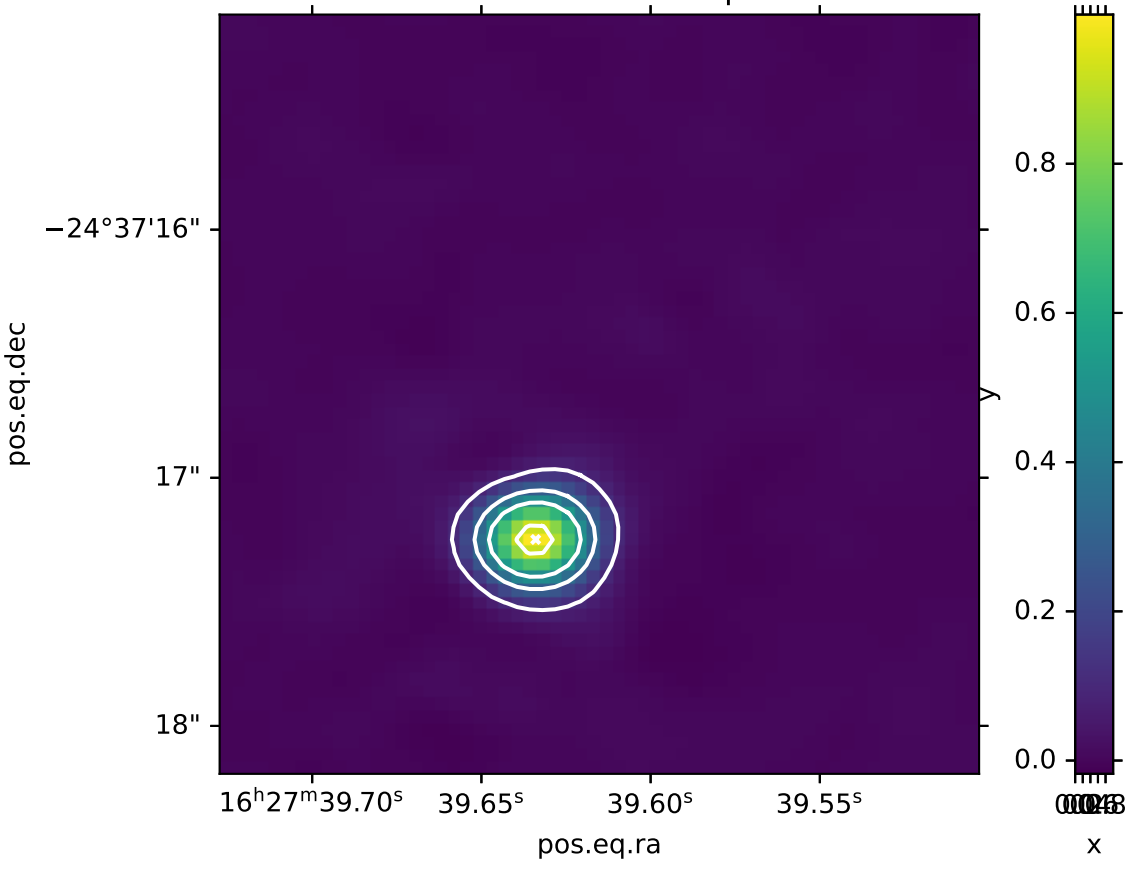
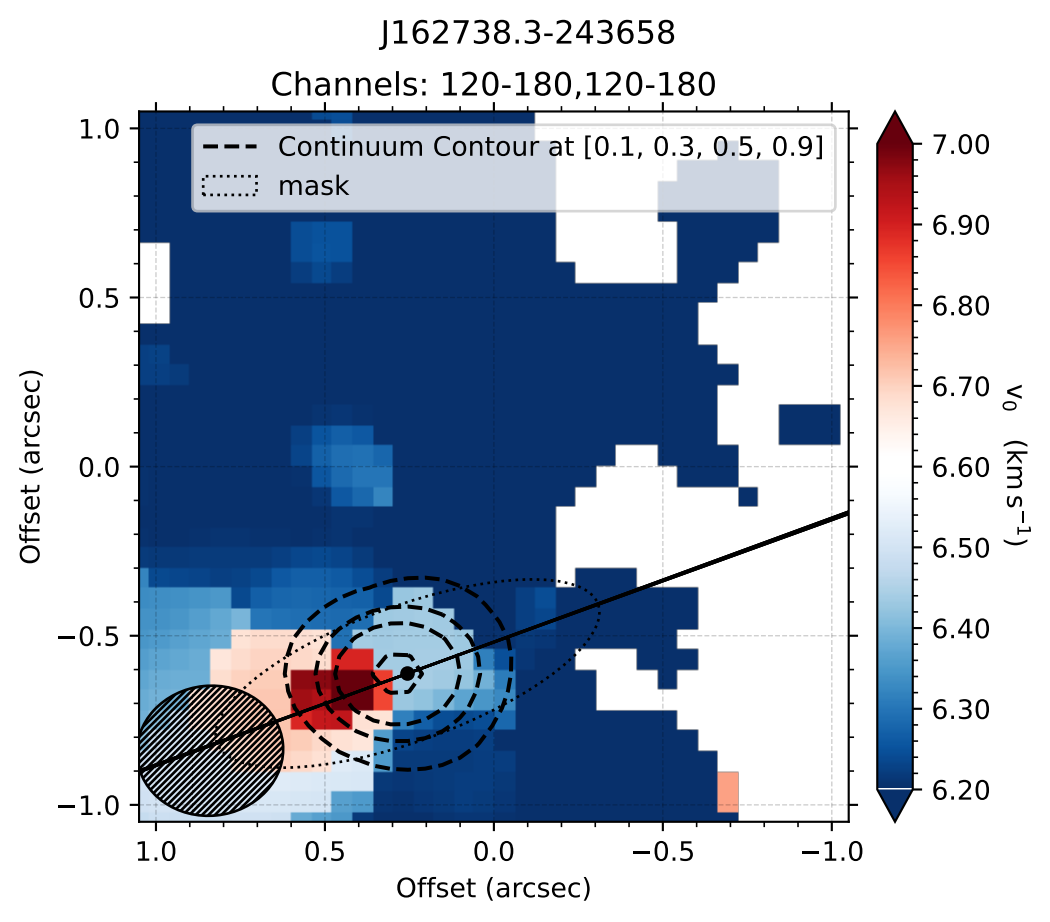
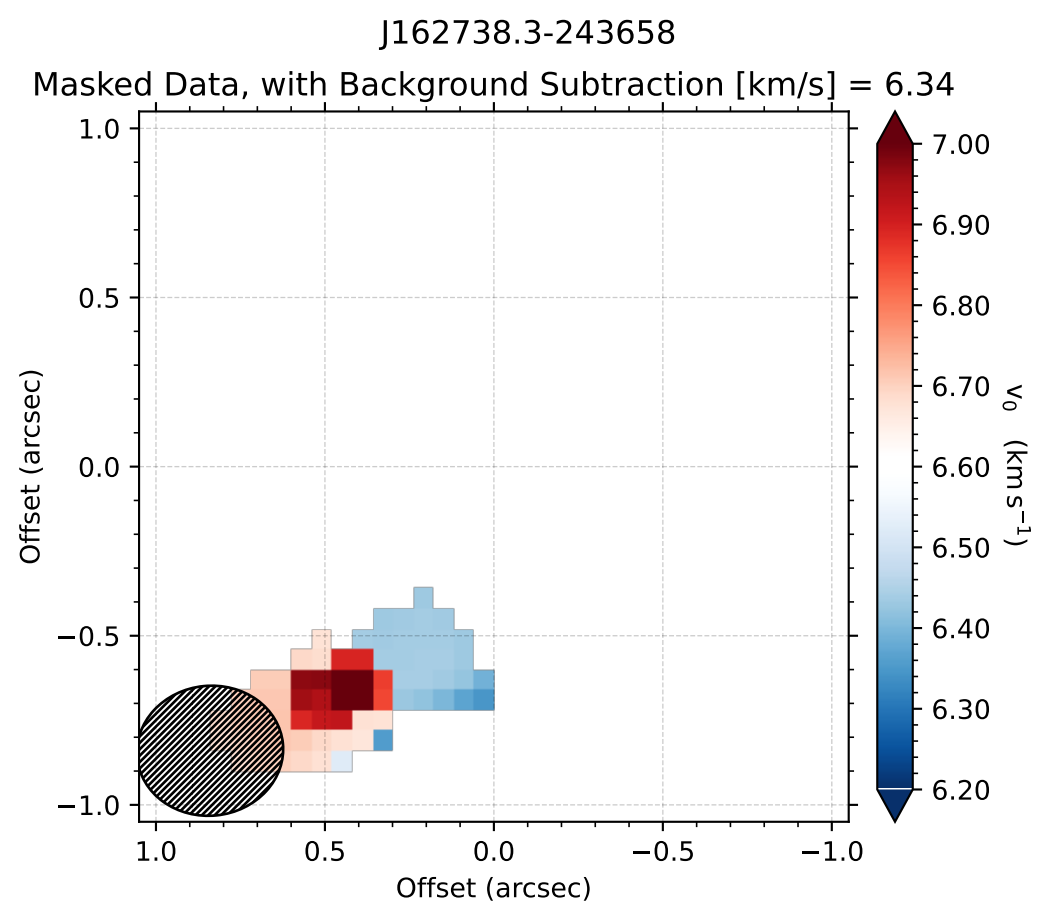
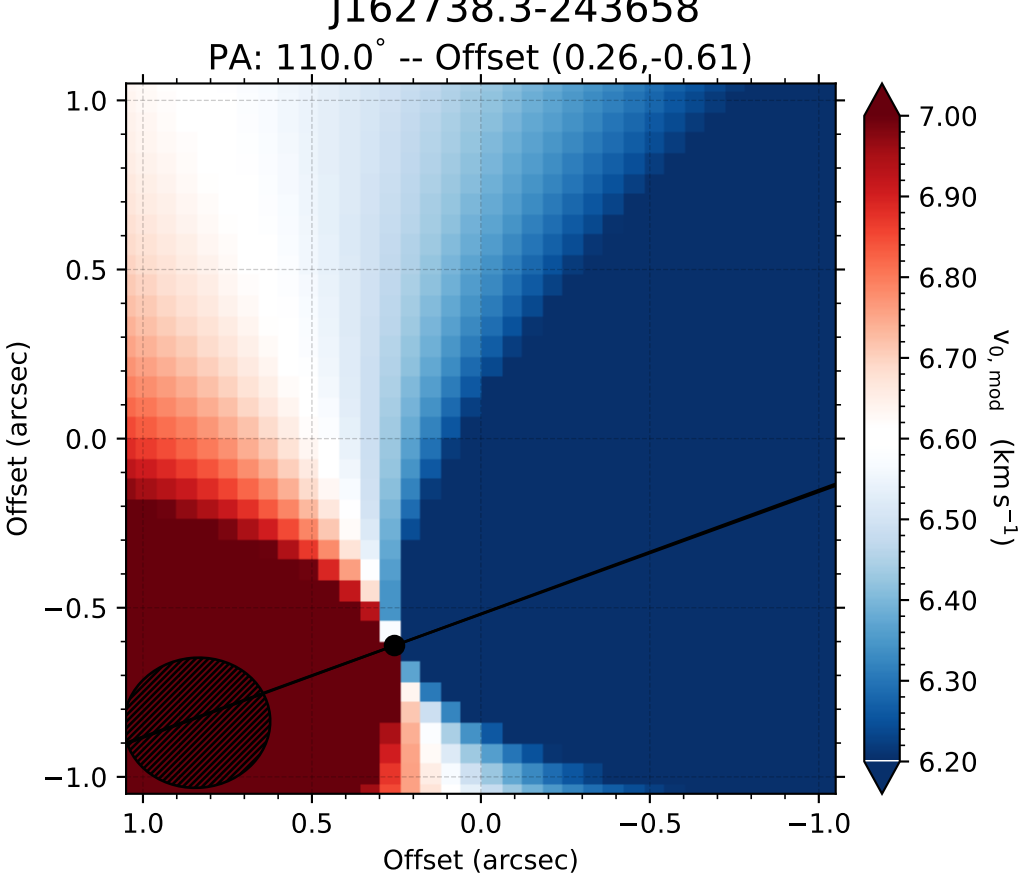
J162738.3-243658, CO

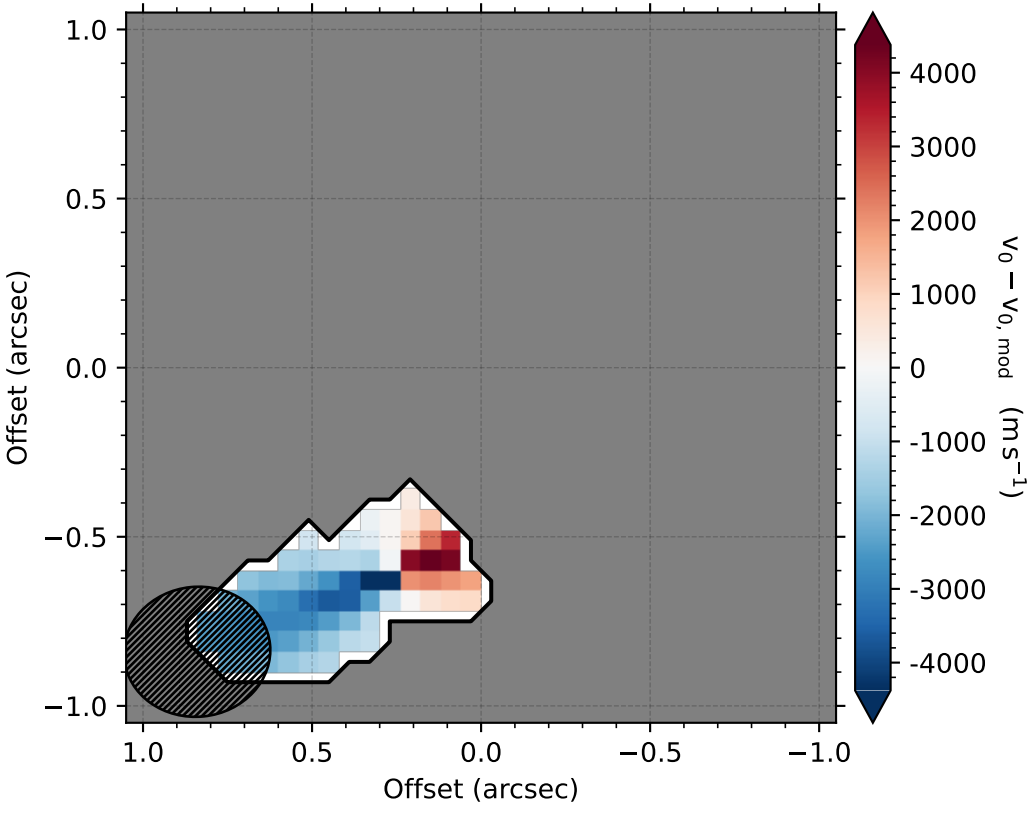


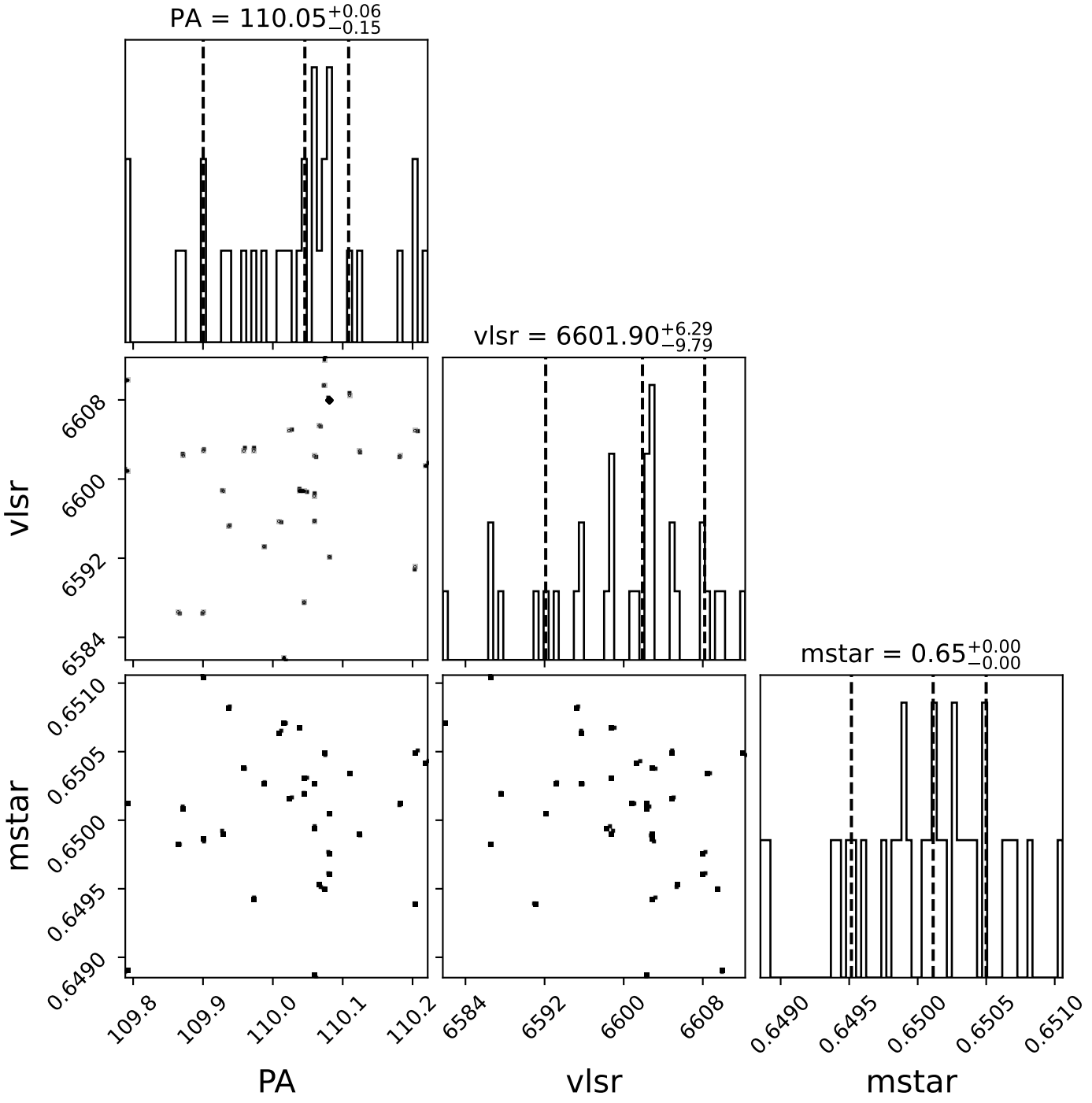

Continuum Stamp
−24°37'16"
17"
18"
pos.eq.dec
16h27m39.70s
39.65s
39.60s
39.55s
pos.eq.ra
y
x
0.8
0.6
0.4
0.2
0.0


J162738.3-243658
Channels: 120-180,120-180
Continuum Contour at [0.1, 0.3, 0.5, 0.9]
mask
Offset (arcsec)
Offset (arcsec)
1.0
0.5
0.0
−0.5
−1.0
7.00
6.90
6.80
6.70
6.60
6.50
6.40
6.30
6.20
v_0 (km s^{-1})


J162738.3-243658
Masked Data, with Background Subtraction [km/s] = 6.34
Offset (arcsec)
Offset (arcsec)
1.0
0.5
0.0
−0.5
−1.0
7.00
6.90
6.80
6.70
6.60
6.50
6.40
6.30
6.20
v_0 (km s^{-1})


J162738.3-243658
PA: 110.0° -- Offset (0.26,-0.61)
Offset (arcsec)
Offset (arcsec)
1.0
0.5
0.0
−0.5
−1.0
7.00
6.90
6.80
6.70
6.60
6.50
6.40
6.30
6.20
$v_{0,\,mod}$ (km s^{-1})


1.0
0.5
0.0
−0.5
−1.0
Offset (arcsec)
Offset (arcsec)
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
$v_0 - v_{0,\,\mathrm{mod}}$ (m s^{-1})


PA = 110.05$^{+0.06}_{-0.15}$
vlsr = 6601.90$^{+6.29}_{-9.79}$
mstar = 0.65$^{+0.00}_{-0.00}$
PA
vlsr
mstar
109.8
109.9
110.0
110.1
110.2
6584
6592
6600
6608
0.6490
0.6495
0.6500
0.6505
0.6510

Name: J162738.3-243658

Region: ROph

File: /Users/calebpainter/Downloads/DECO/fits_files/ROph/J162738.3-243658_CO_230.538GHz.image.fits

Emmision Line: CO

Channels: (120, 180, 120, 180)

X-pos: 246.909617

Y-pos: -24.616443

X-offset: 0.256

Y-offset: -0.612

Literature PA: 16.1

Eddy PA: 110.05

Literature Mass [M]: 0.65

Eddy Mass [M]: 0.65

DECO Dict vsys [km/s]: 4.2

Eddy vlsr [m/s]: 6.6

Literature Inc: 69.58

Eddy Inc: --

Literature Distance [Mpc]: 139.46

Eddy rmin, rmax ["]: (0.02, 1.0)

Eddy params (nwalkers, nburn, nsteps): (32, 800, 500)

Velocity Mask: [0.6, 0.2, -20]

Notes: MCMC FAILS