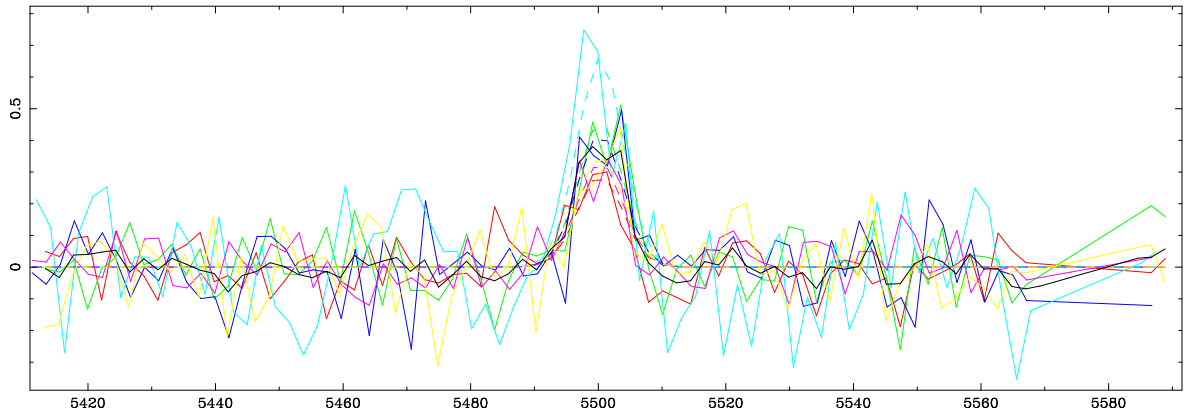
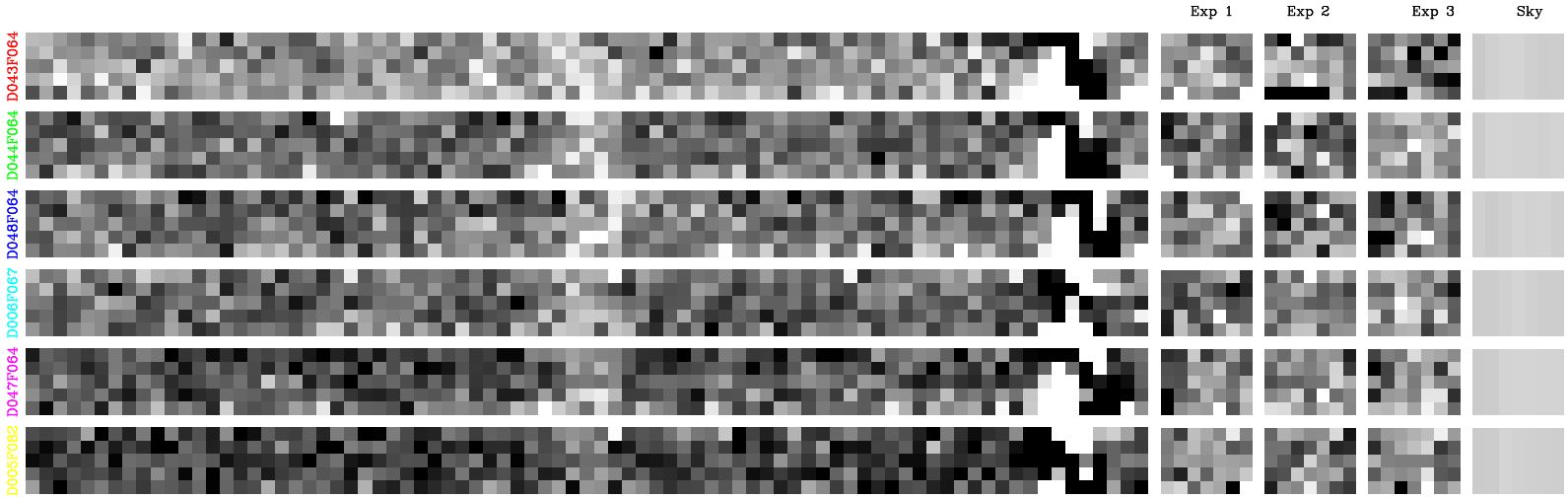
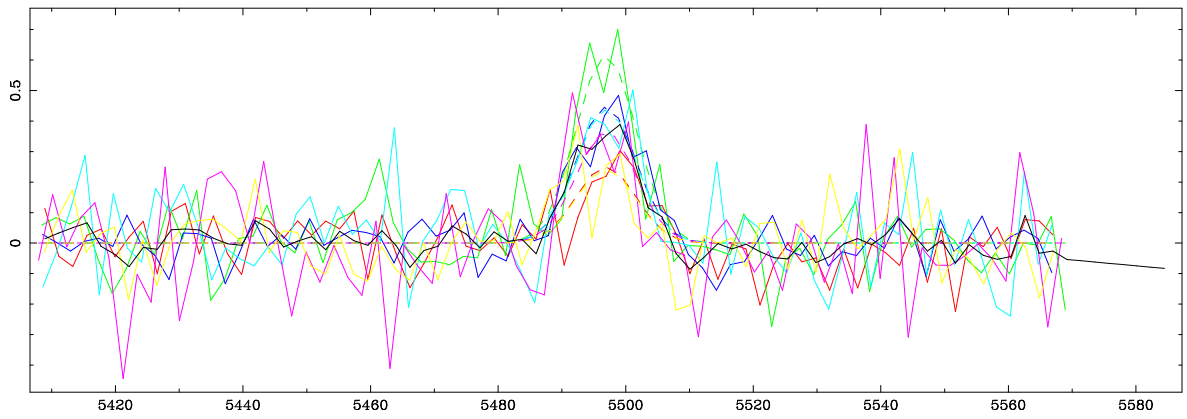
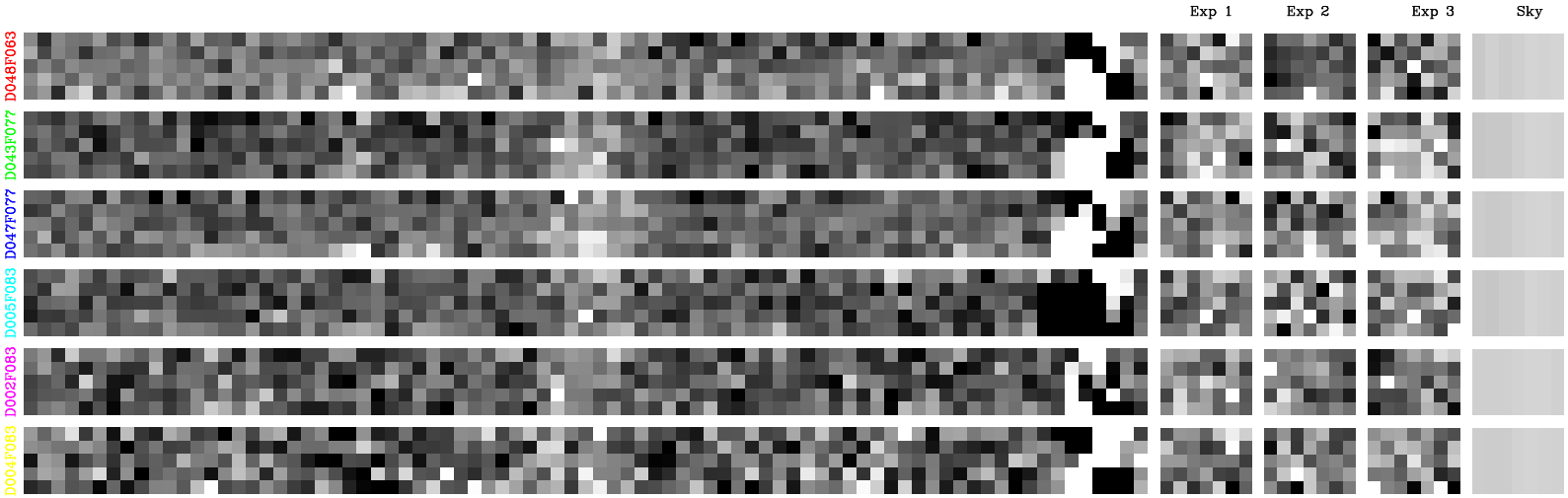


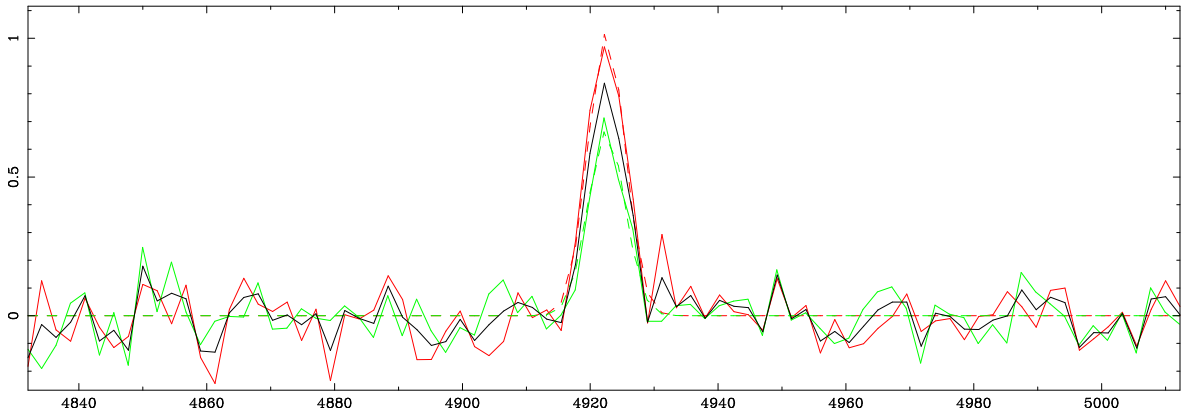
S/N = 14.64
$FWHM_{obs}$ = 8.43Å
λ_{obs} = 5500.30Å
EW_{obs} = 148.28Å
α_{2000} = 189.2062°
δ_{2000} = 62.2205°





S/N = 15.79
$FWHM_{obs}$ = 11.04Å
λ_{obs} = 5496.92Å
EW_{obs} = 59.22Å
α_{2000} = 189.2007°
δ_{2000} = 62.2195°





S/N = 15.19

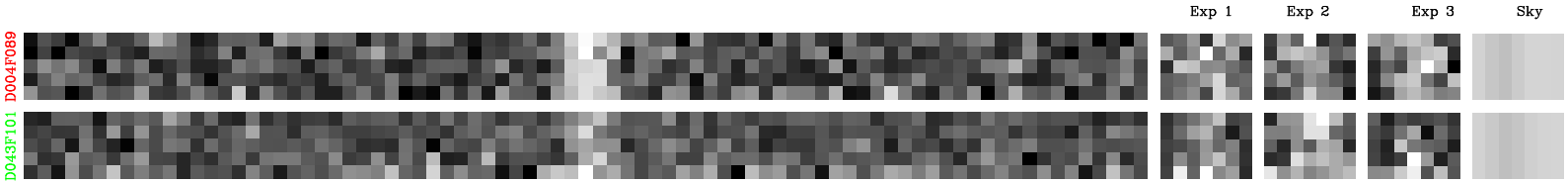
$FWHM_{obs}$ = 6.75Å

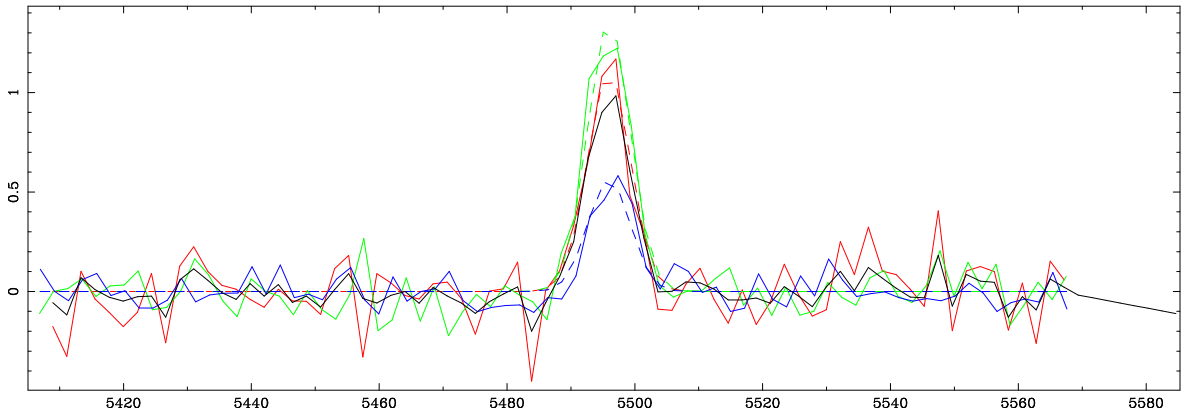
λ_{obs} = 4922.54Å

EW_{obs} = 71.59Å

α_{2000} = 189.2420°

δ_{2000} = 62.2171°





S/N = 21.39

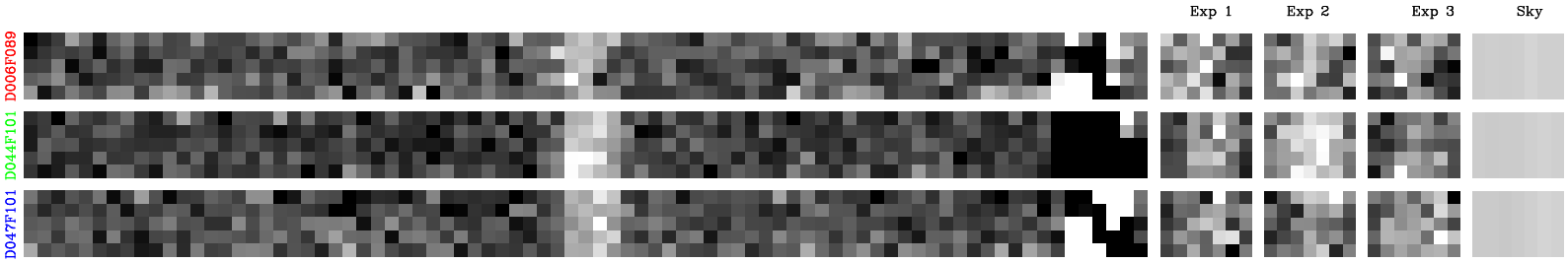
$FWHM_{obs}$ = 7.82Å

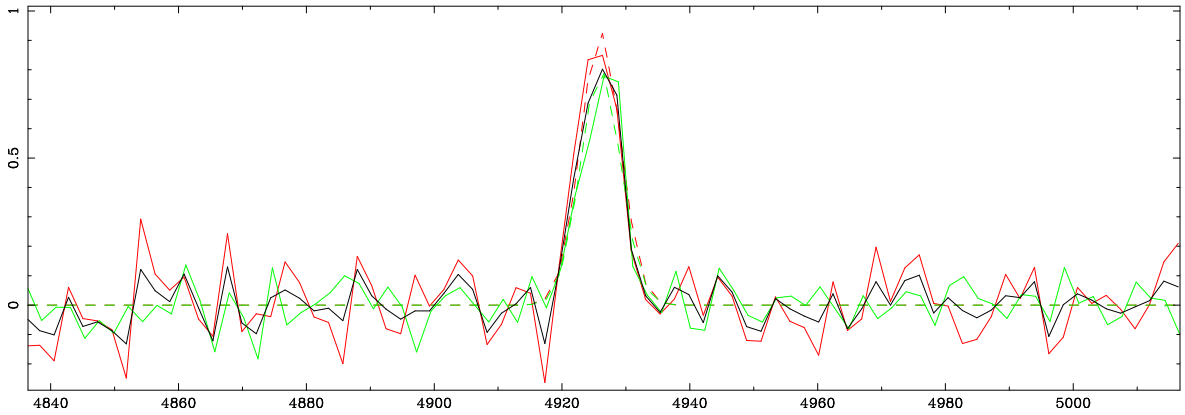
λ_{obs} = 5495.96Å

EW_{obs} = 104.59Å

α_{2000} = 189.2397°

δ_{2000} = 62.2167°





S/N = 18.21

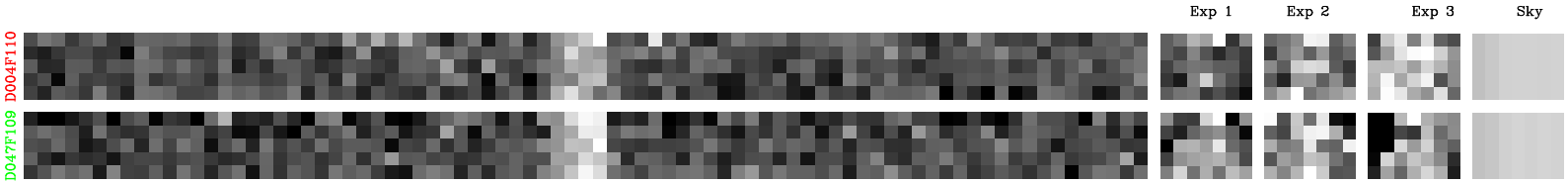
$FWHM_{obs}$ = 7.39Å

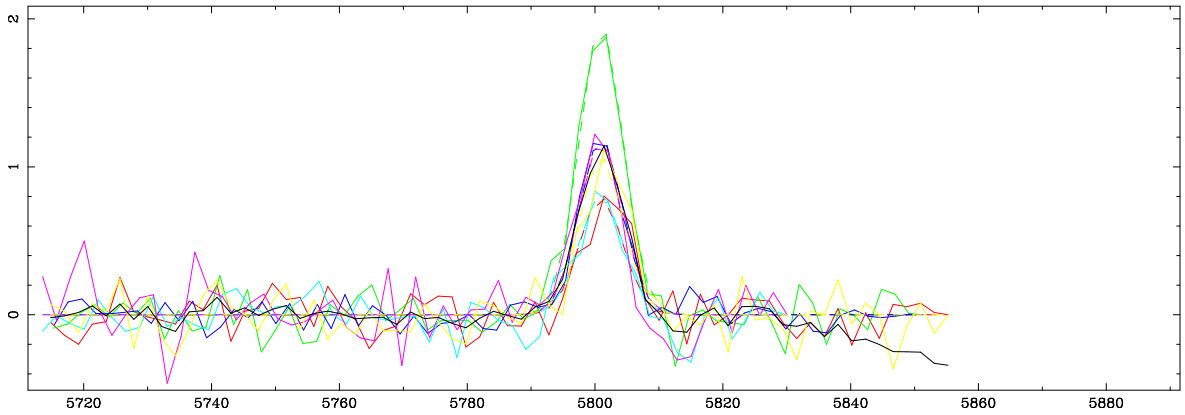
λ_{obs} = 4926.02Å

EW_{obs} = 97.46Å

α_{2000} = 189.2121°

δ_{2000} = 62.2156°





S/N = 31.87

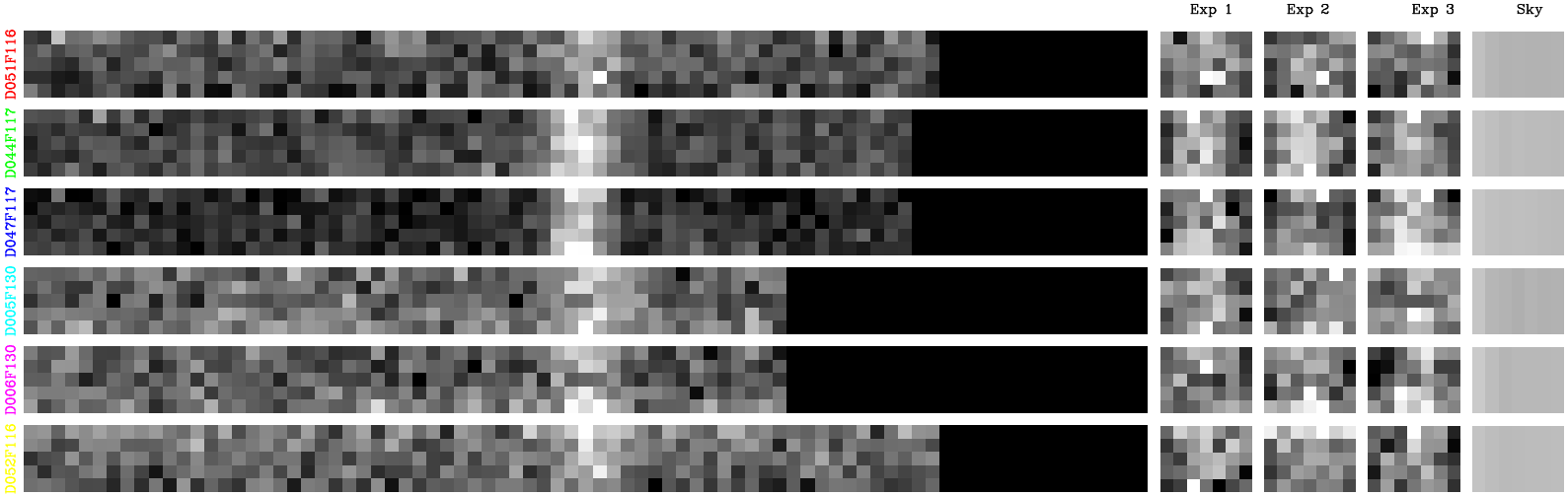
$FWHM_{obs}$ = 8.04Å

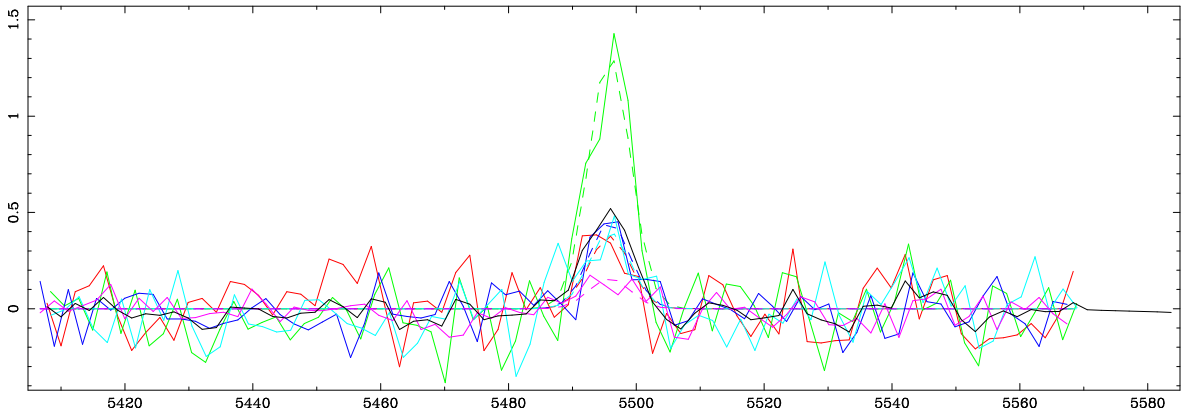
λ_{obs} = 5800.94Å

EW_{obs} = 66.00Å

α_{2000} = 189.1836°

δ_{2000} = 62.2138°





$S/N = 15.08$

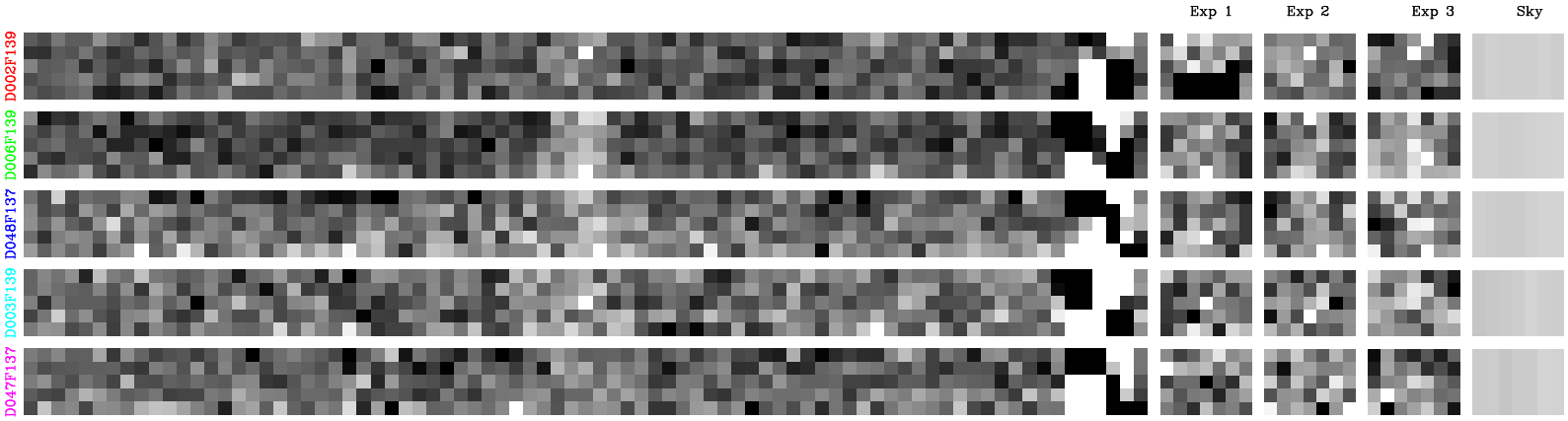
$FWHM_{obs} = 7.60Å$

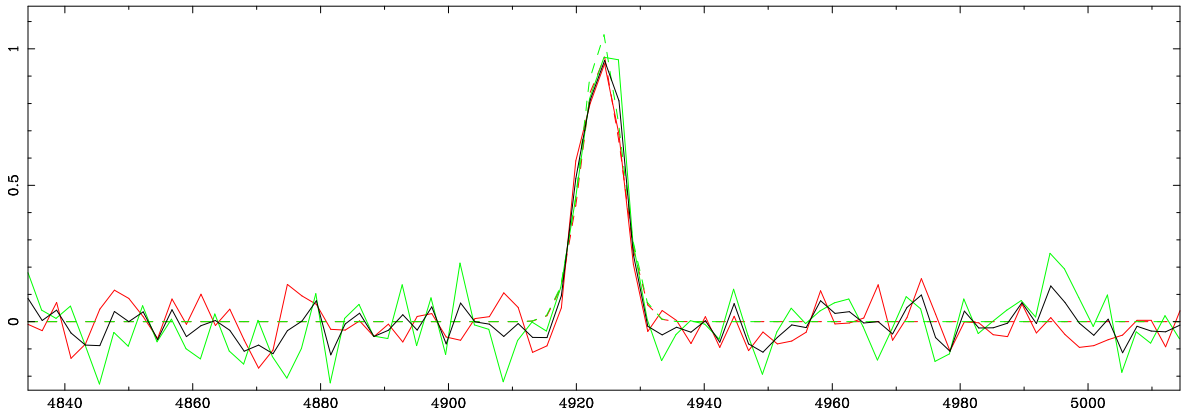
$\lambda_{obs} = 5495.82Å$

$EW_{obs} = 54.13Å$

$\alpha_{2000} = 189.2093°$

$\delta_{2000} = 62.2113°$





S/N = 20.20

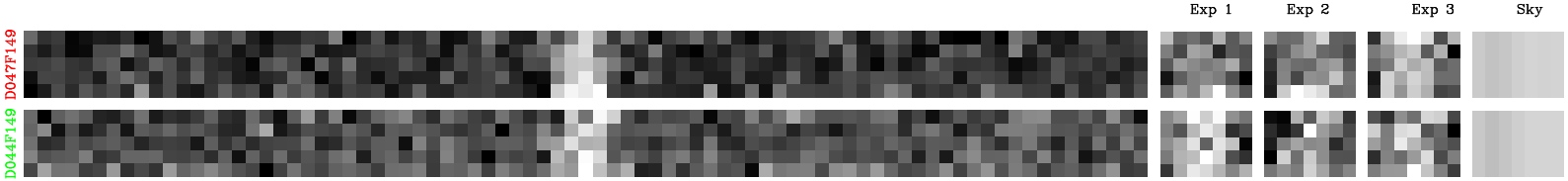
$FWHM_{obs}$ = 7.27Å

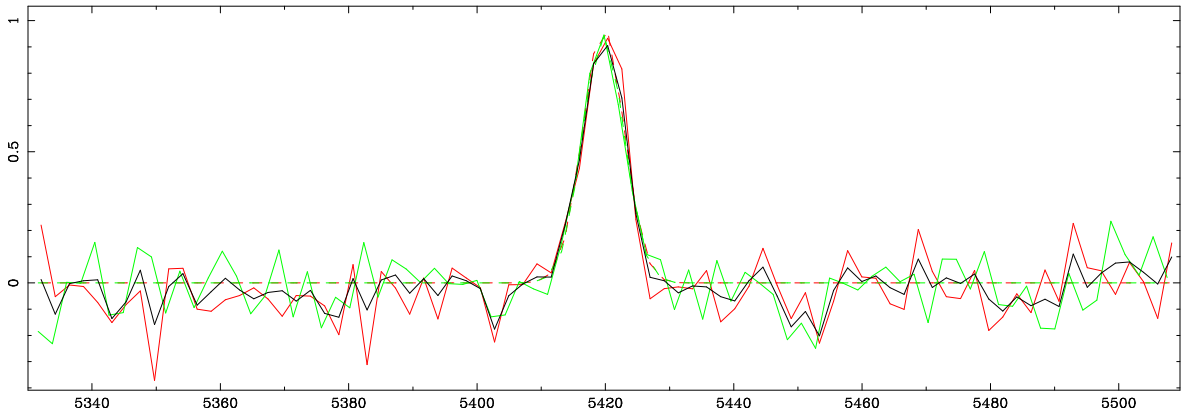
λ_{obs} = 4923.89Å

EW_{obs} = 54.36Å

α_{2000} = 189.1966°

δ_{2000} = 62.2102°





S/N = 17.09

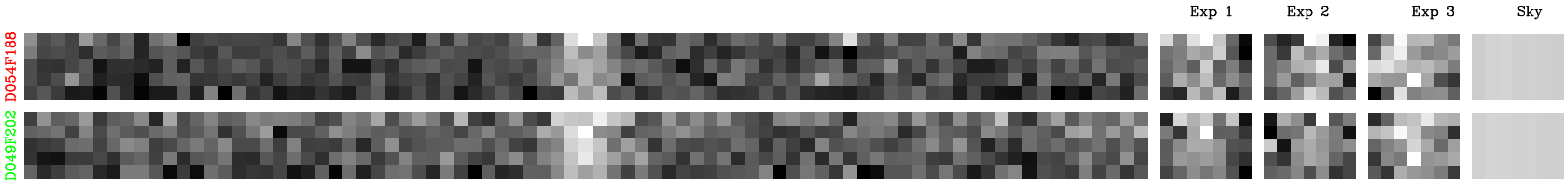
$FWHM_{obs}$ = 7.53Å

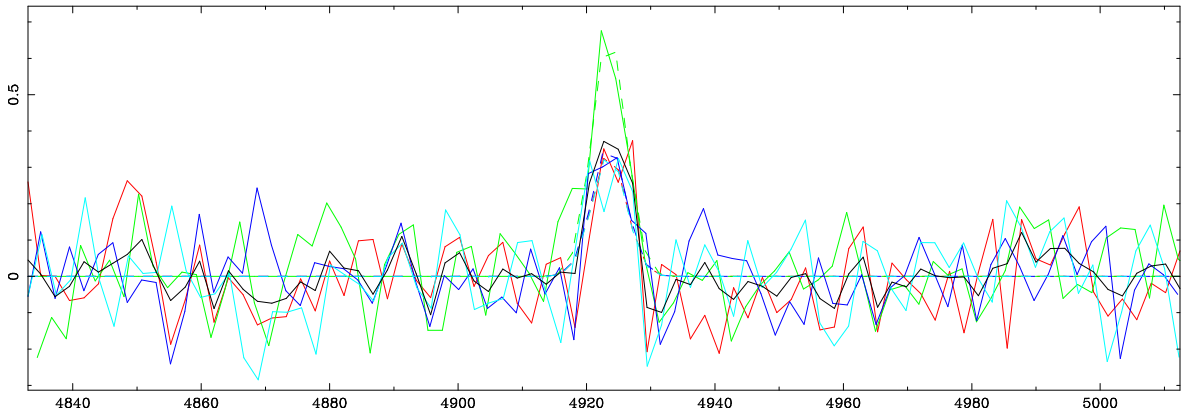
λ_{obs} = 5419.69Å

EW_{obs} = 34.67Å

α_{2000} = 189.1780°

δ_{2000} = 62.2046°





S/N = 10.59

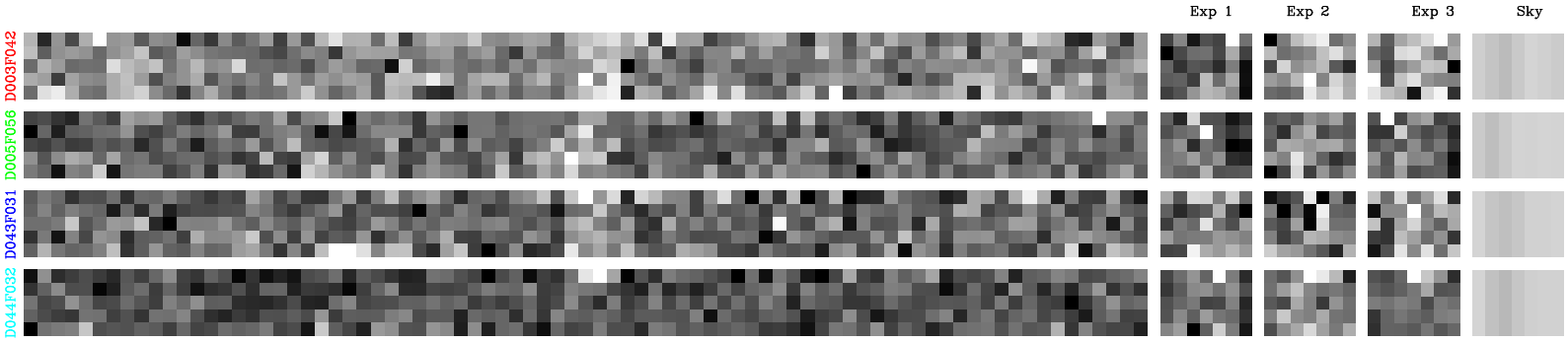
$FWHM_{obs}$ = 6.20Å

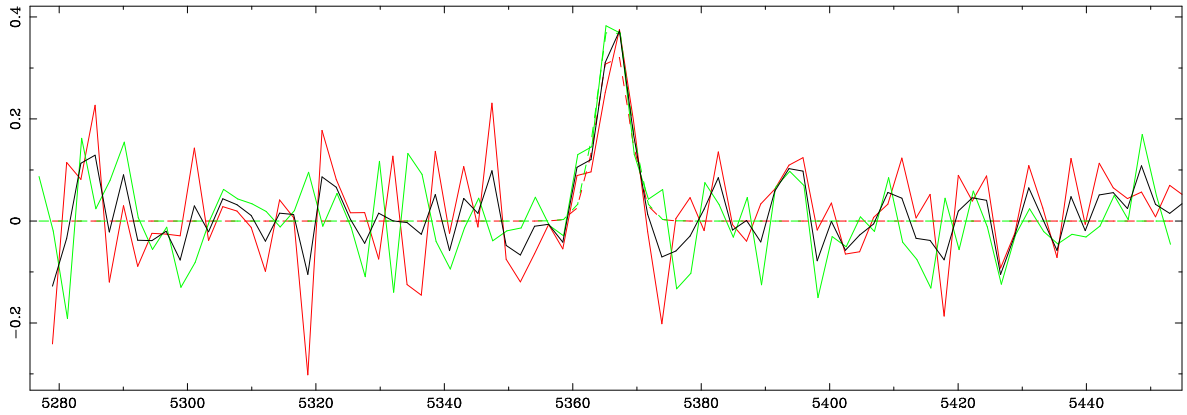
λ_{obs} = 4923.51Å

EW_{obs} = 22.91Å

α_{2000} = 189.1913°

δ_{2000} = 62.2242°





S/N = 6.96

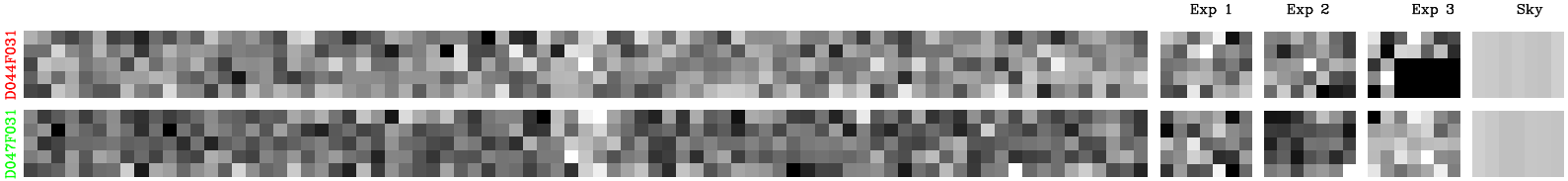
$FWHM_{obs}$ = 5.78Å

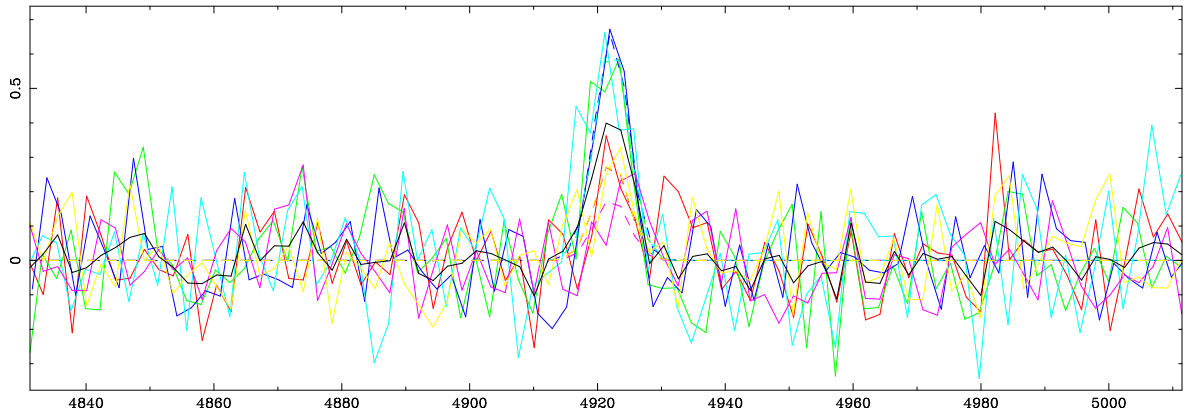
λ_{obs} = 5366.26Å

EW_{obs} = 36.98Å

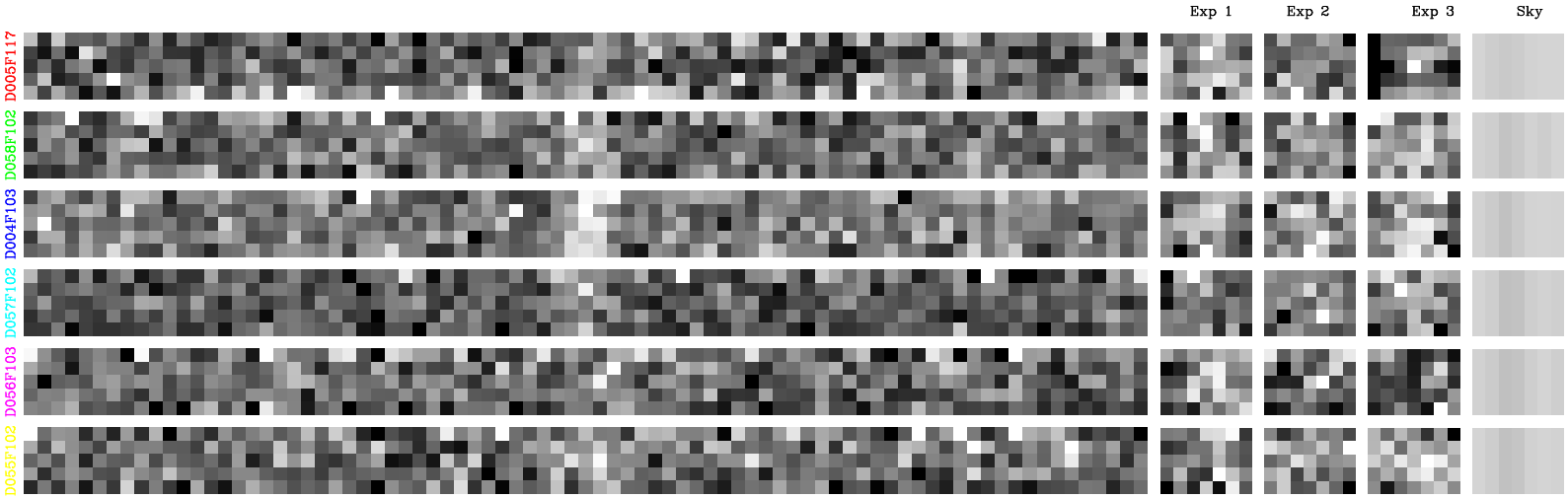
α_{2000} = 189.1884°

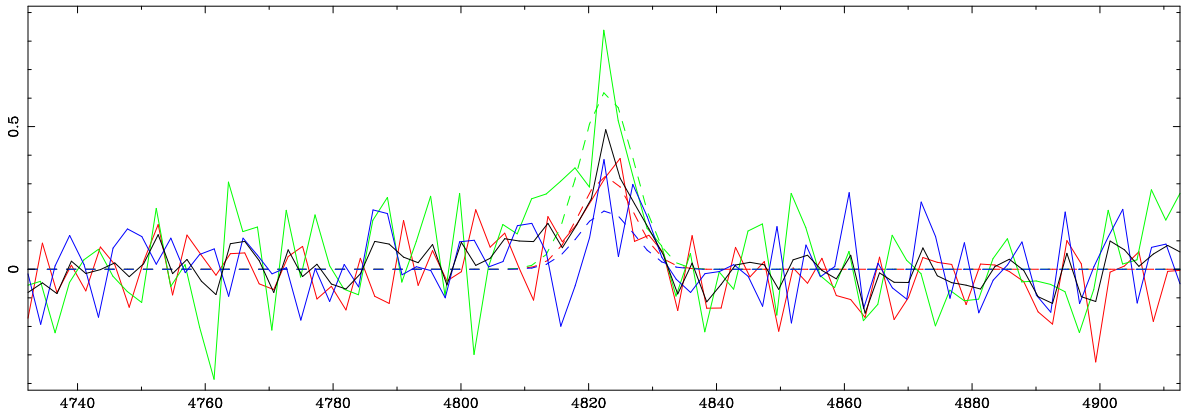
δ_{2000} = 62.2243°





S/N = 11.81
$FWHM_{obs}$ = 6.21Å
λ_{obs} = 4922.23Å
EW_{obs} = 32.20Å
α_{2000} = 189.2445°
δ_{2000} = 62.2146°





$S/N = 8.66$

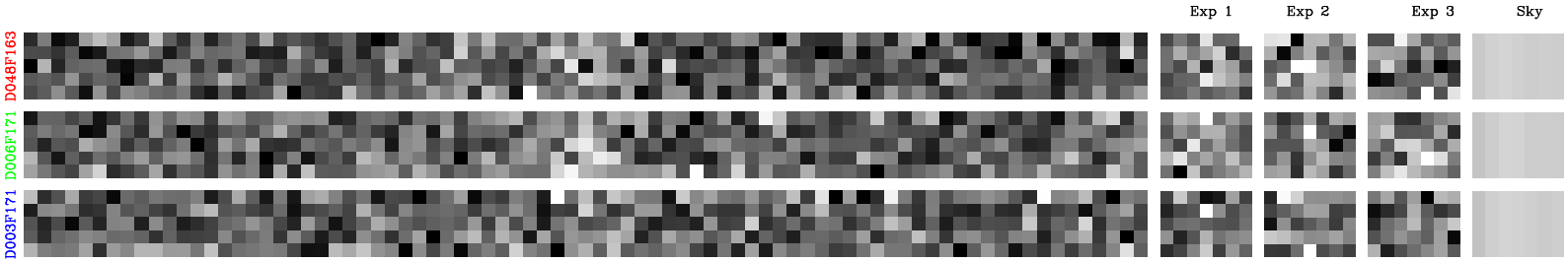
$FWHM_{obs} = 9.99$Å

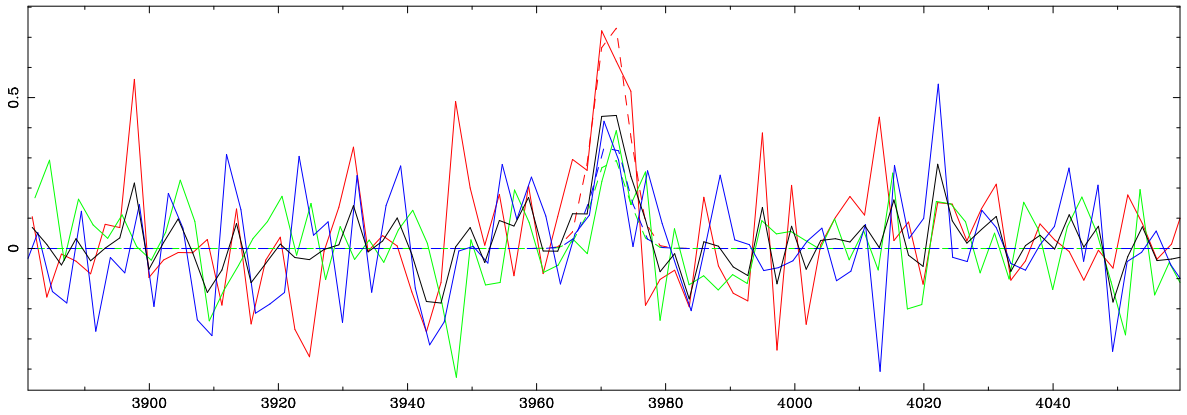
$\lambda_{obs} = 4822.81$Å

$EW_{obs} > 108.58$Å

$\alpha_{2000} = 189.1956°$

$\delta_{2000} = 62.2076°$





S/N = 7.25

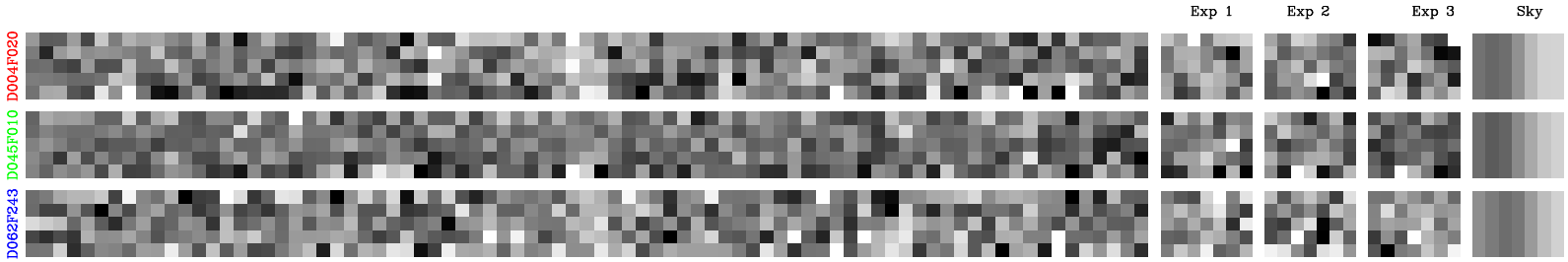
$FWHM_{obs}$ = 6.06Å

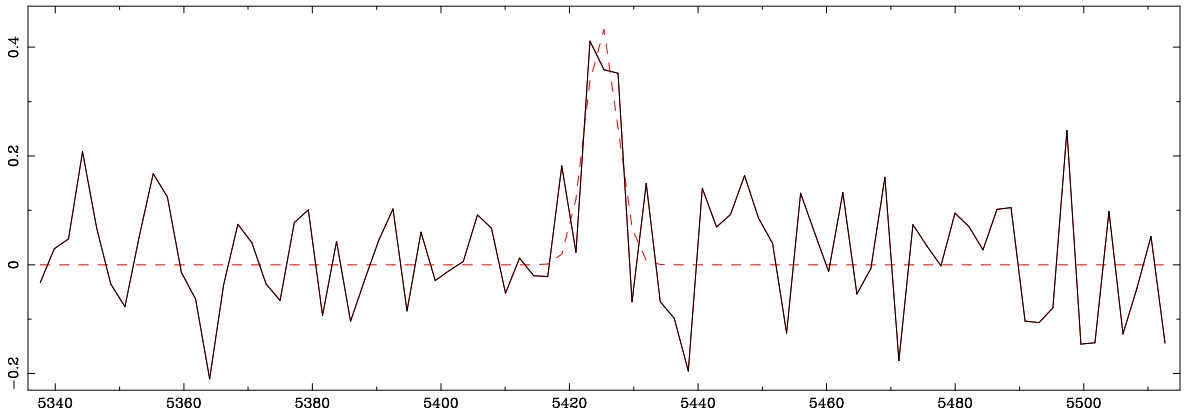
λ_{obs} = 3971.47Å

EW_{obs} > 56.71Å

α_{2000} = 189.2261°

δ_{2000} = 62.2268°





S/N = 5.65

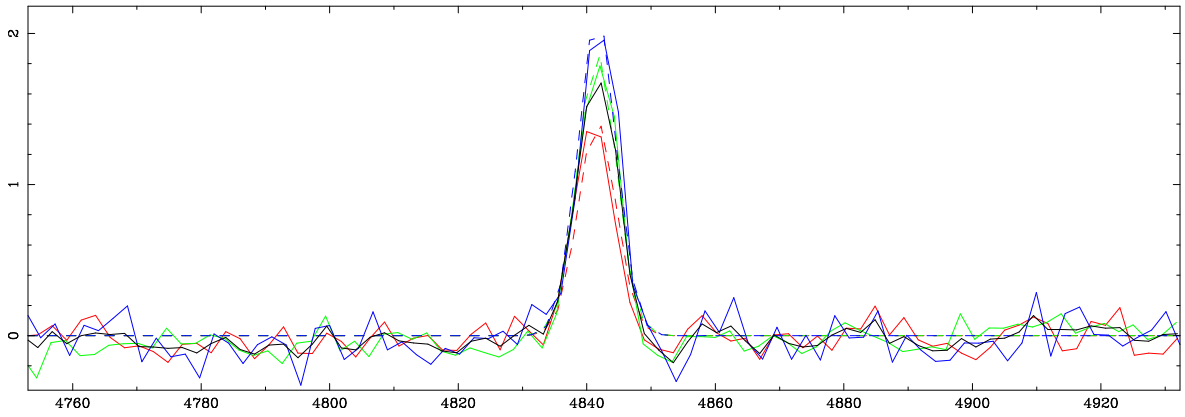
$FWHM_{obs}$ = 5.81Å

λ_{obs} = 5424.96Å

EW_{obs} > 60.96Å

α_{2000} = 189.1884°

δ_{2000} = 62.2002°



S/N = 35.47

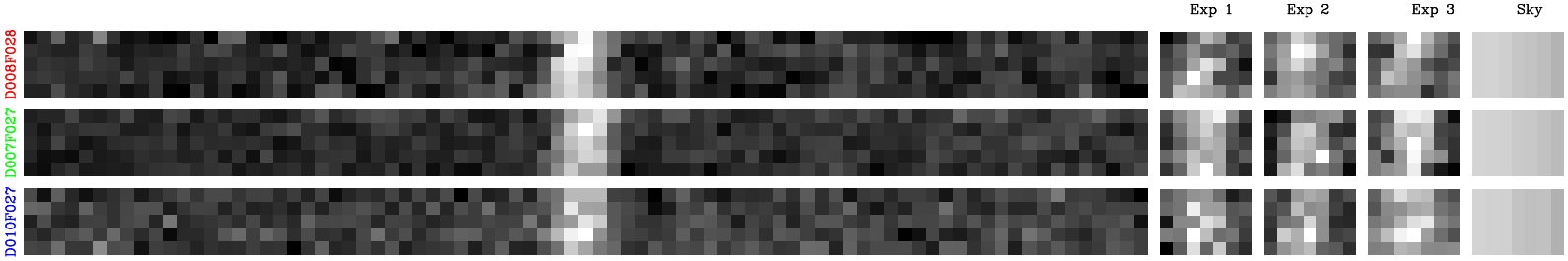
$FWHM_{obs}$ = 6.99Å

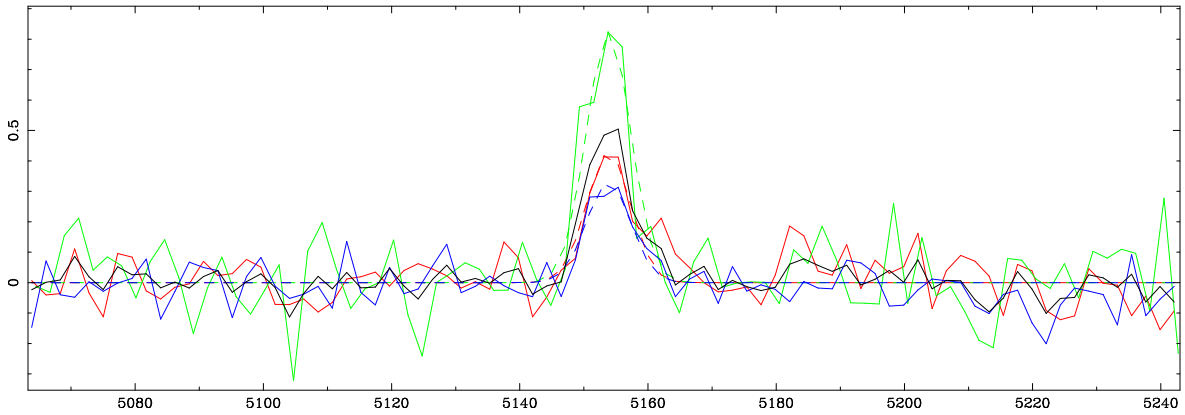
λ_{obs} = 4841.61Å

EW_{obs} = 40.56Å

α_{2000} = 189.2987°

δ_{2000} = 62.2540°





S/N = 14.04

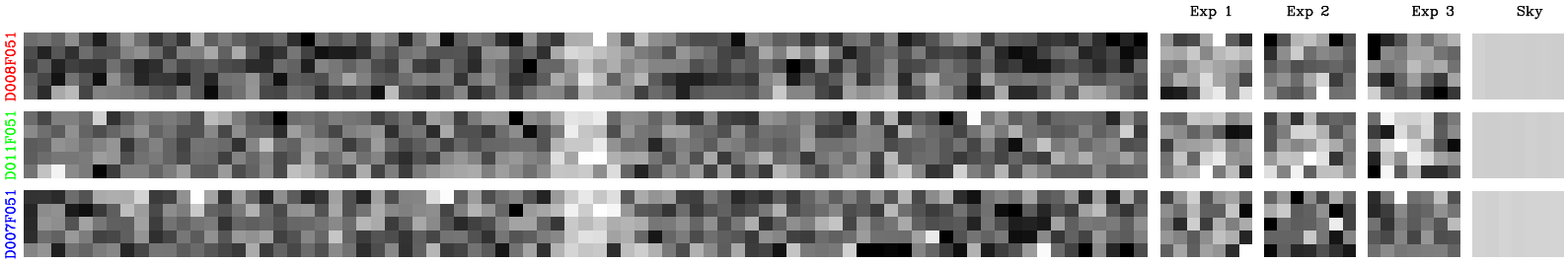
$FWHM_{obs}$ = 8.12Å

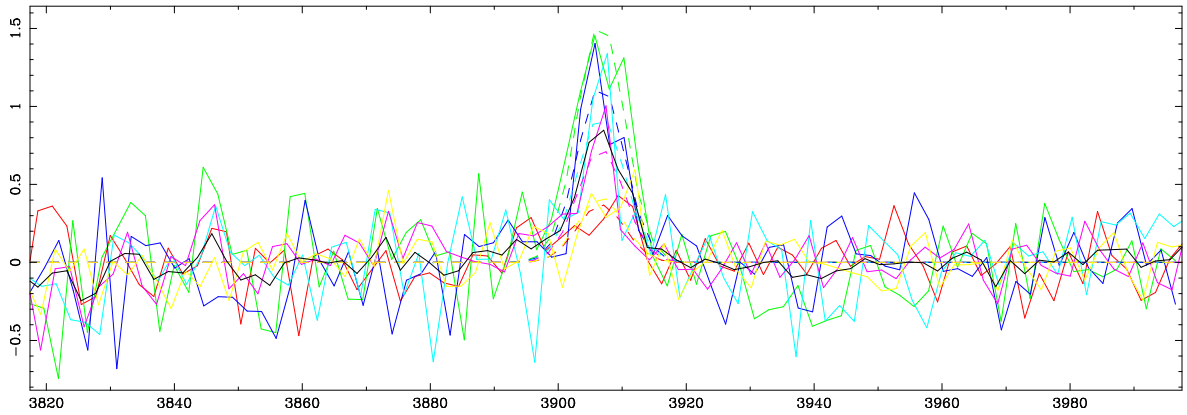
λ_{obs} = 5153.84Å

EW_{obs} > 176.67Å

α_{2000} = 189.2745°

δ_{2000} = 62.2508°





$S/N = 12.37$

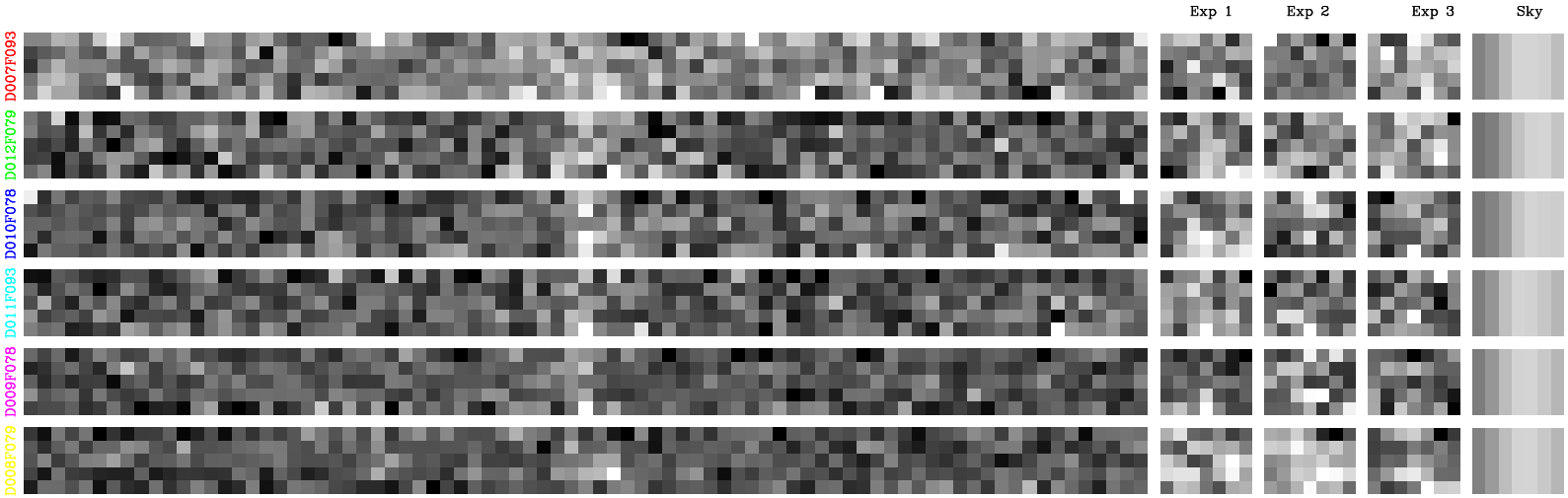
$FWHM_{obs} = 8.70Å$

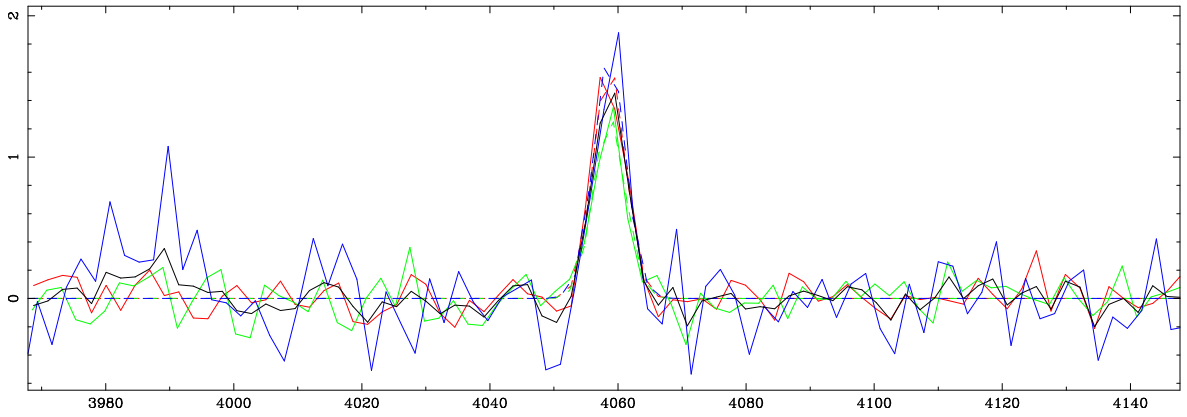
$\lambda_{obs} = 3906.67Å$

$EW_{obs} > 143.47Å$

$\alpha_{2000} = 189.2685°$

$\delta_{2000} = 62.2463°$





$S/N = 16.97$

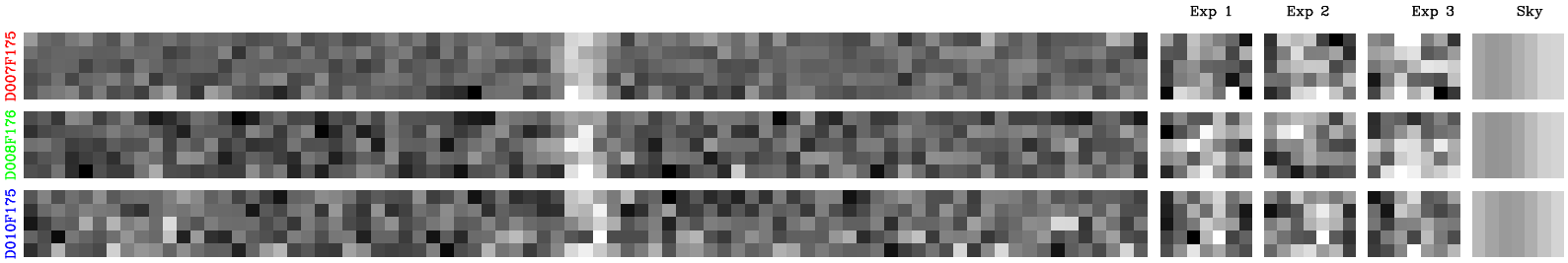
$FWHM_{obs} = 5.83Å$

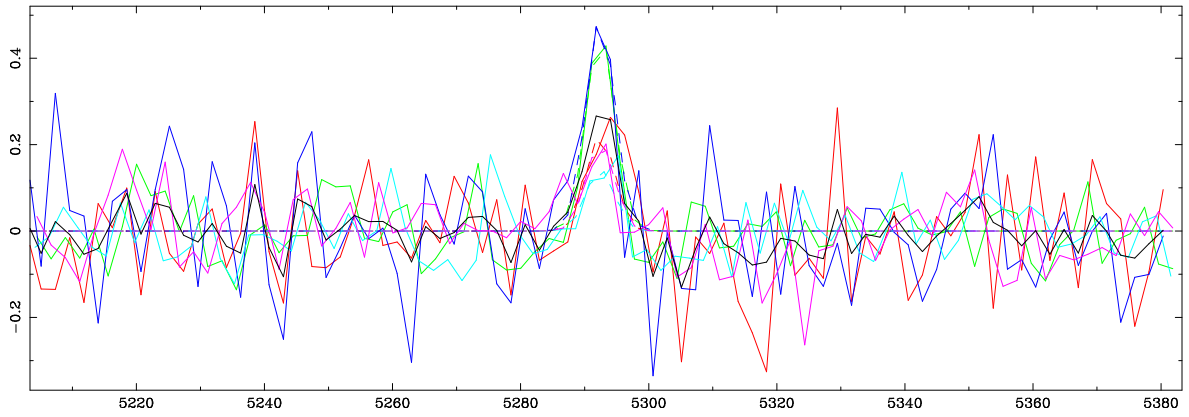
$\lambda_{obs} = 4058.65Å$

$EW_{obs} = 21.55Å$

$\alpha_{2000} = 189.2478°$

$\delta_{2000} = 62.2347°$





$S/N = 8.28$

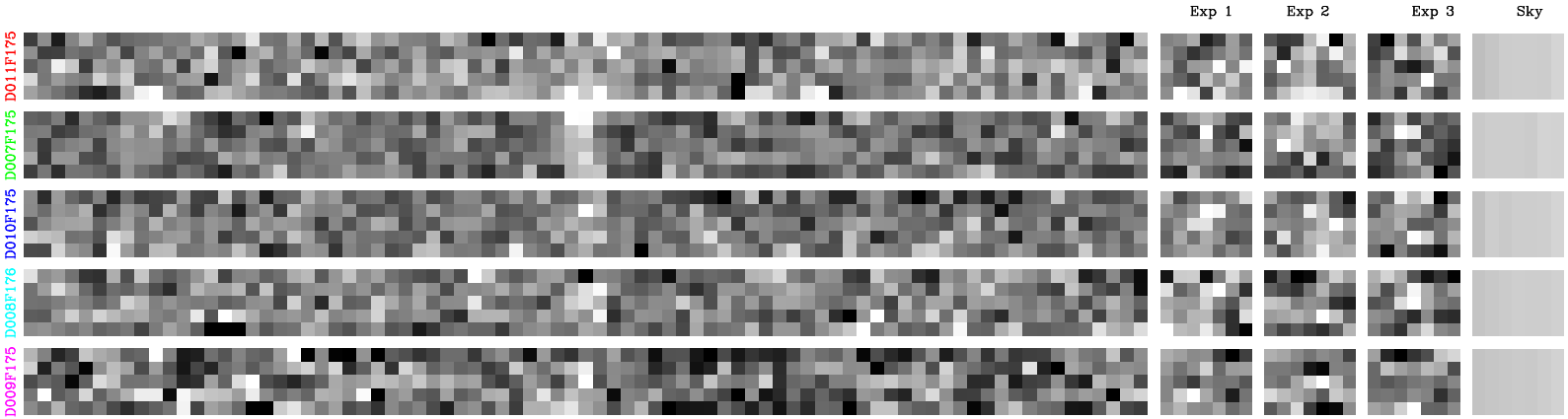
$FWHM_{obs} = 5.26Å$

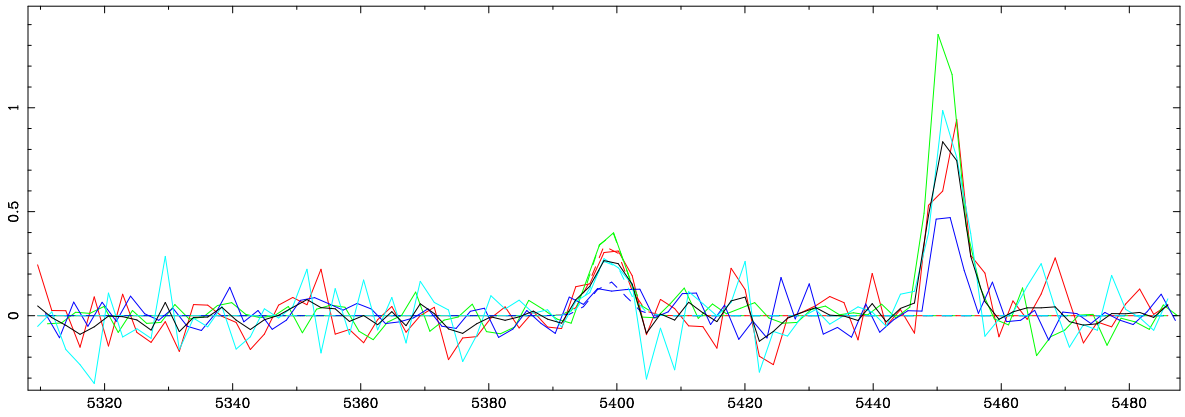
$\lambda_{obs} = 5292.44Å$

$EW_{obs} = 5.12Å$

$\alpha_{2000} = 189.2472°$

$\delta_{2000} = 62.2347°$





S/N = 8.11

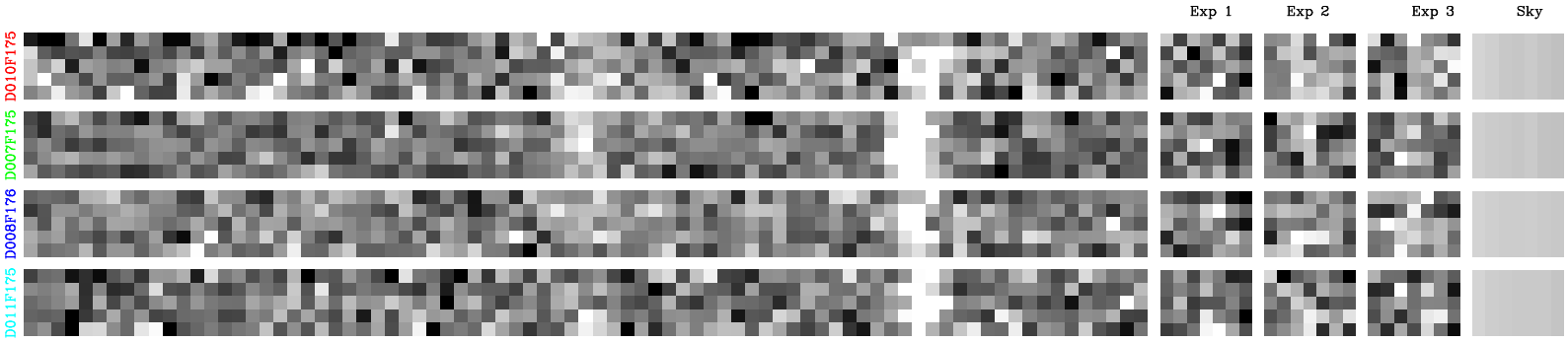
$FWHM_{obs}$ = 5.80Å

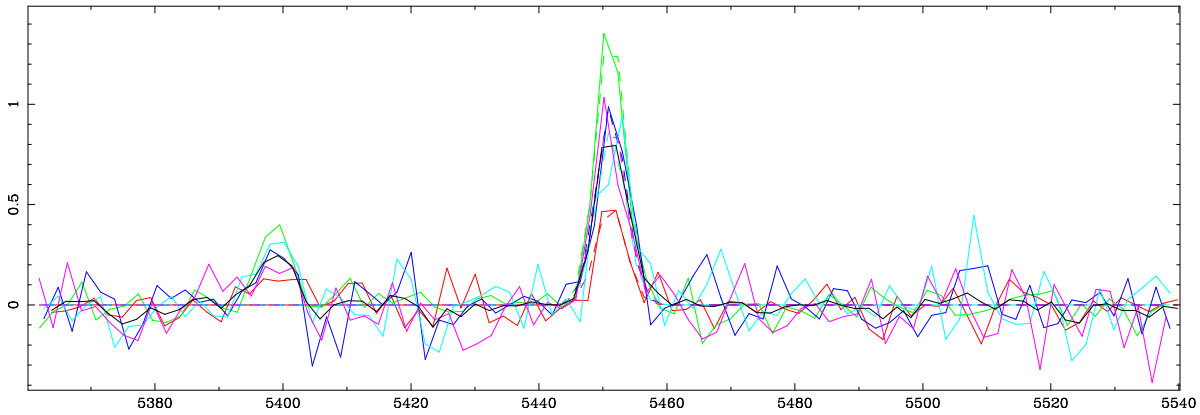
λ_{obs} = 5398.77Å

EW_{obs} = 4.84Å

α_{2000} = 189.2471°

δ_{2000} = 62.2349°





S/N = 23.02

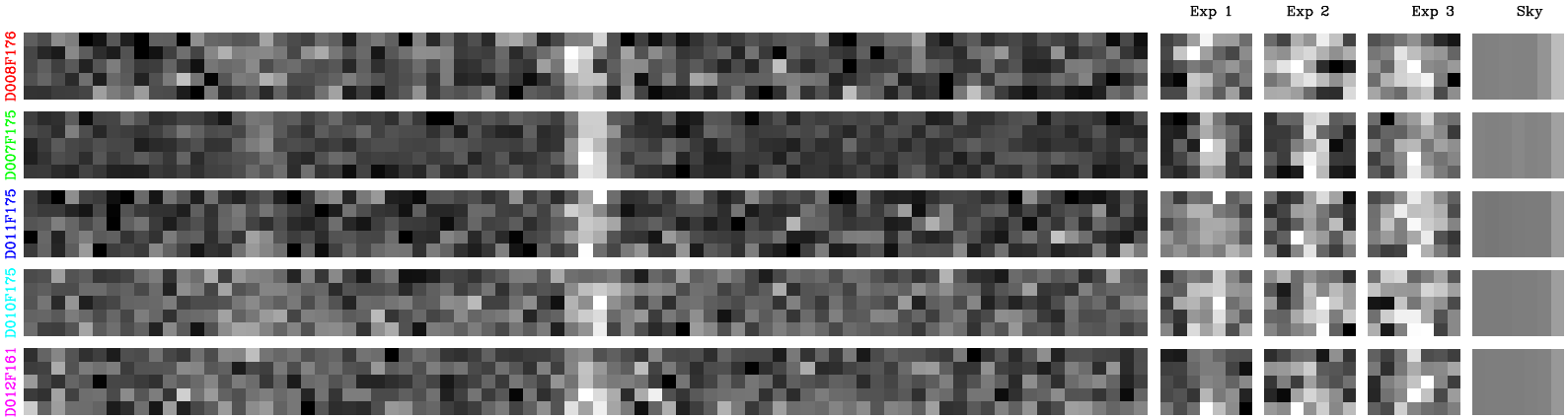
$FWHM_{obs}$ = 5.41Å

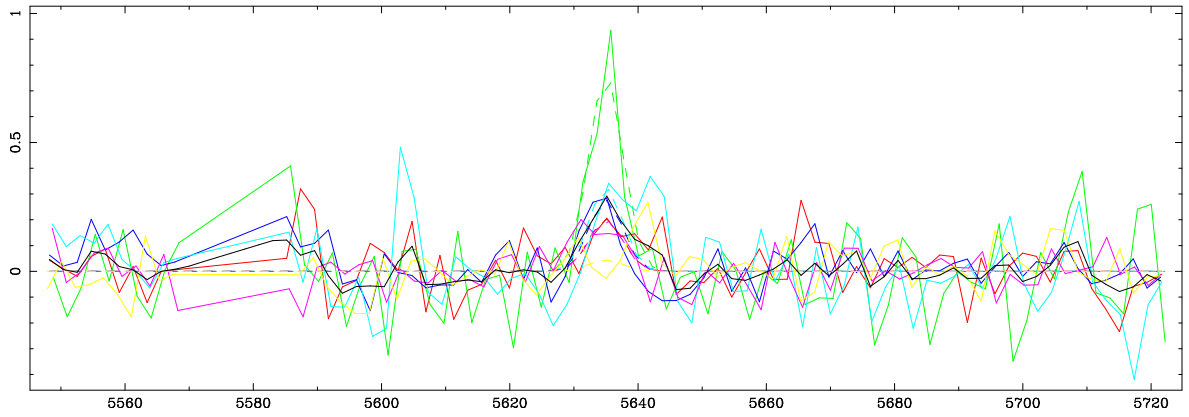
λ_{obs} = 5451.24Å

EW_{obs} = 17.04Å

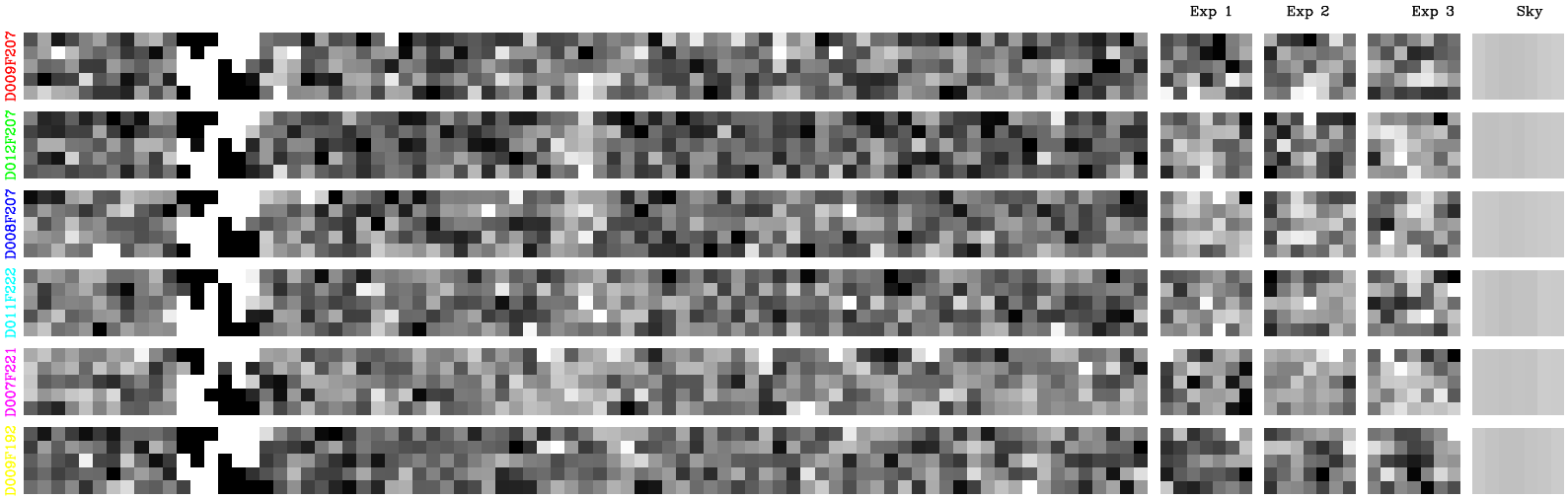
α_{2000} = 189.2472°

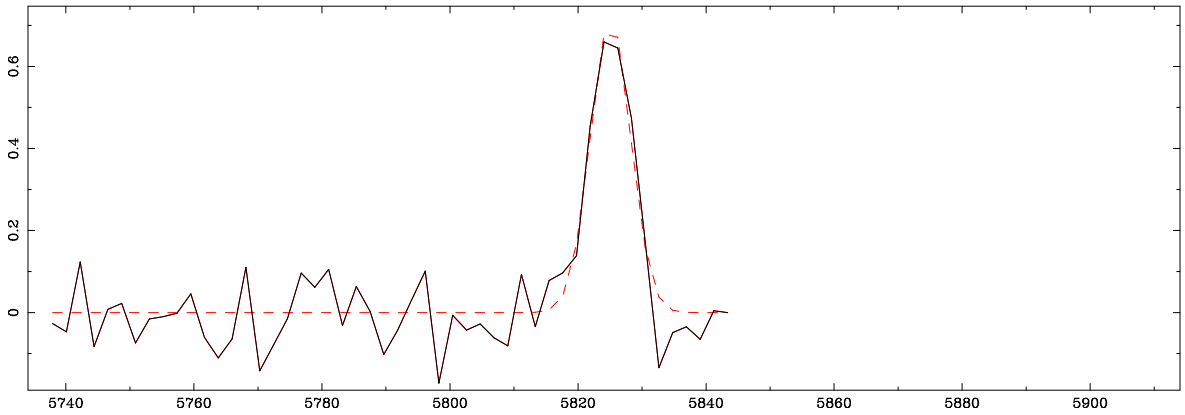
δ_{2000} = 62.2351°



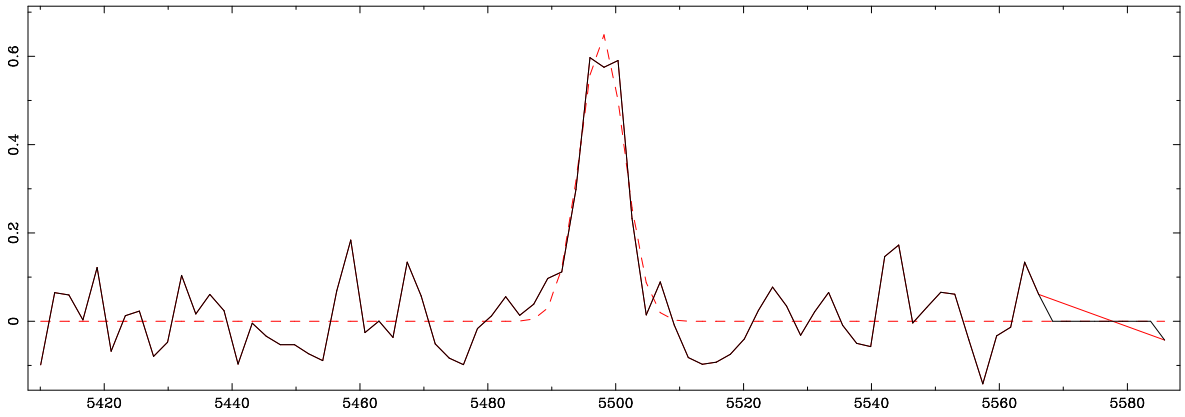


S/N = 10.11
$FWHM_{obs}$ = 6.23Å
λ_{obs} = 5634.98Å
EW_{obs} > 101.40Å
α_{2000} = 189.2588°
δ_{2000} = 62.2303°





S/N = 10.98
$FWHM_{obs}$ = 7.33Å
λ_{obs} = 5825.08Å
EW_{obs} = 93.29Å
α_{2000} = 189.2846°
δ_{2000} = 62.2485°



S/N = 12.52

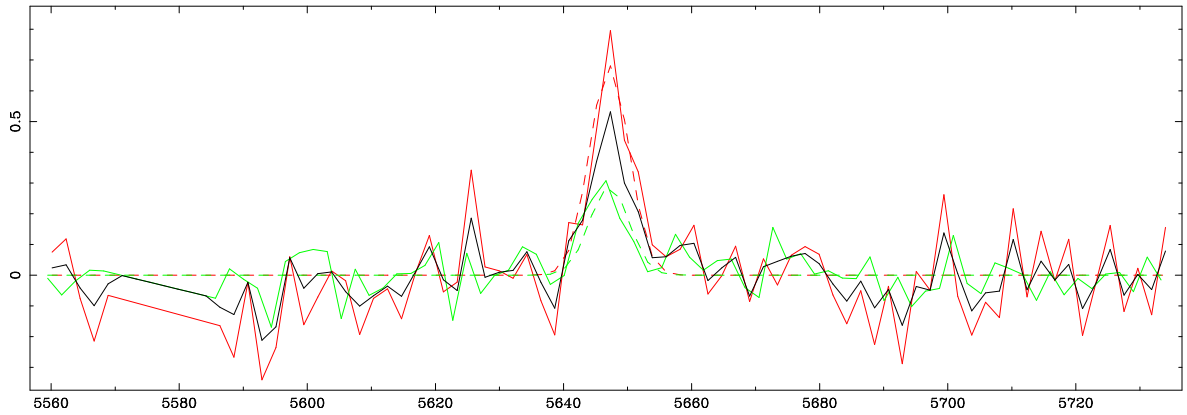
$FWHM_{obs}$ = 8.08Å

λ_{obs} = 5497.88Å

EW_{obs} = 93.72Å

α_{2000} = 189.2670°

δ_{2000} = 62.2451°



$S/N = 9.02$

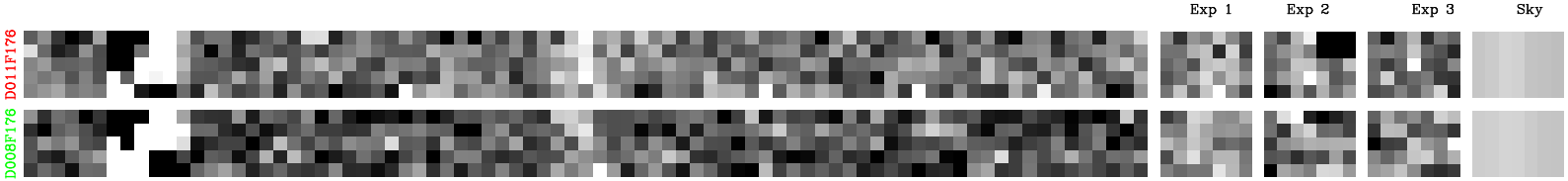
$FWHM_{obs} = 7.21Å$

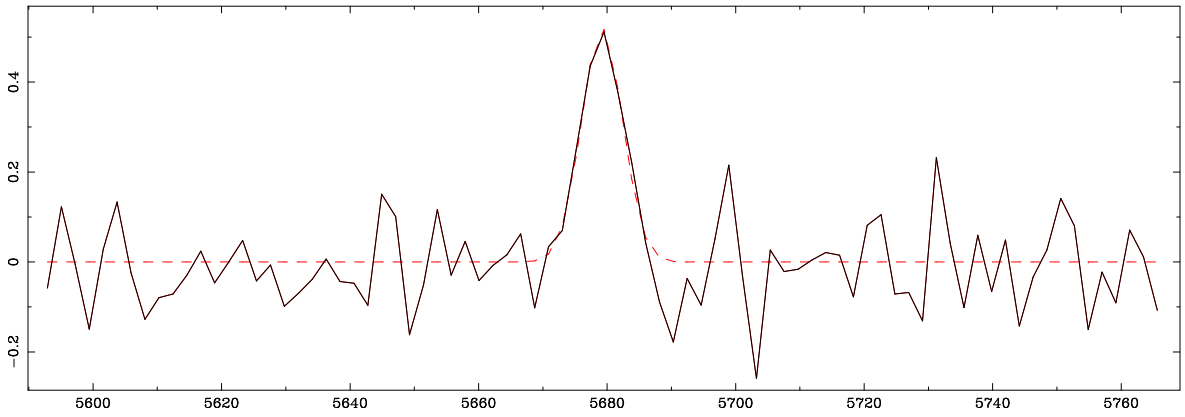
$\lambda_{obs} = 5647.14Å$

$EW_{obs} = 23.40Å$

$\alpha_{2000} = 189.2496°$

$\delta_{2000} = 62.2349°$





S/N = 7.91

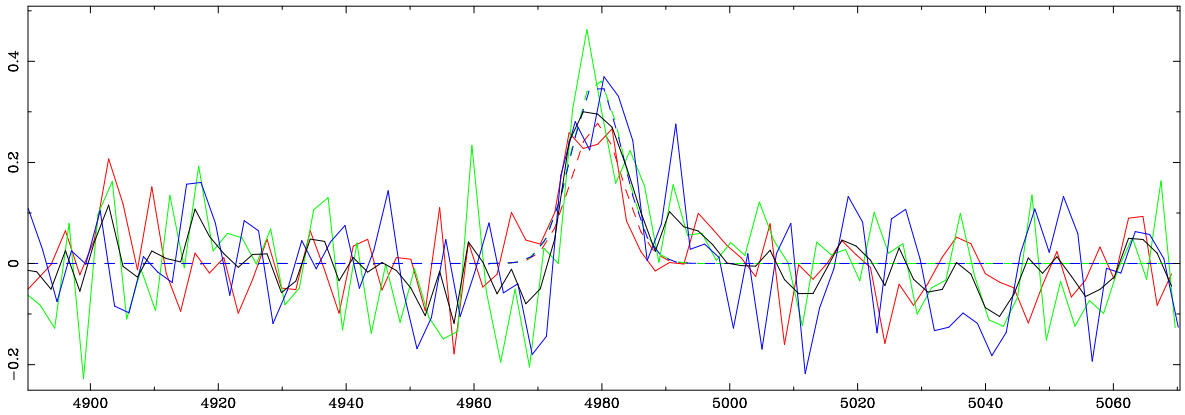
$FWHM_{obs}$ = 7.52Å

λ_{obs} = 5679.22Å

EW_{obs} = 43.00Å

α_{2000} = 189.3067°

δ_{2000} = 62.2532°



S/N = 7.85

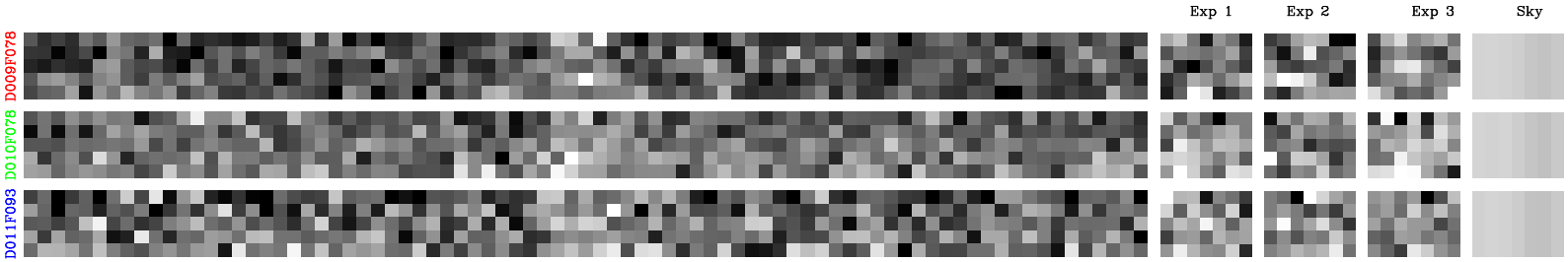
$FWHM_{obs}$ = 9.38Å

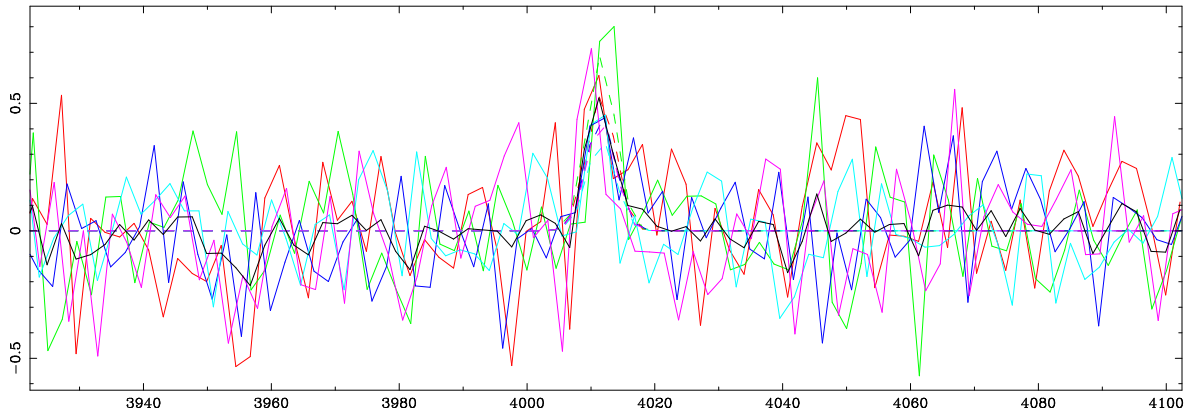
λ_{obs} = 4979.22Å

EW_{obs} > 105.54Å

α_{2000} = 189.2675°

δ_{2000} = 62.2463°





$S/N = 6.33$

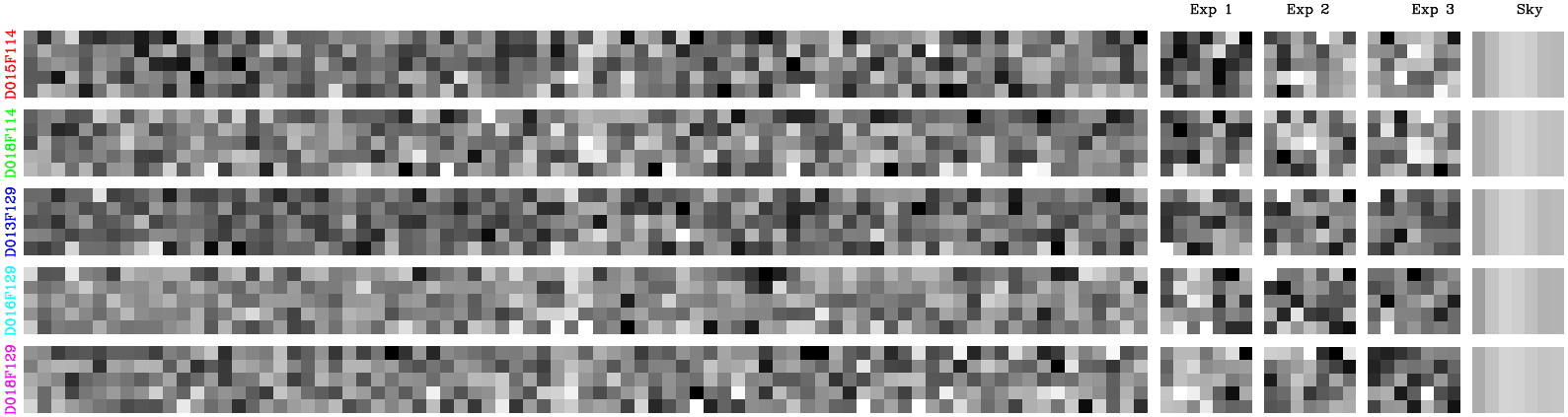
$FWHM_{obs} = 5.20$Å

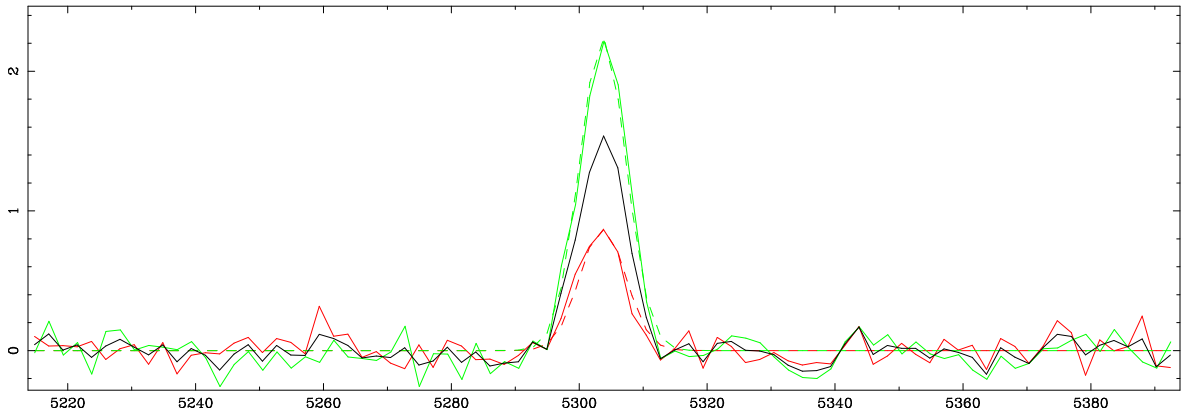
$\lambda_{obs} = 4011.61$Å

$EW_{obs} > 67.56$Å

$\alpha_{2000} = 189.2978°$

$\delta_{2000} = 62.1843°$





$S/N = 32.97$

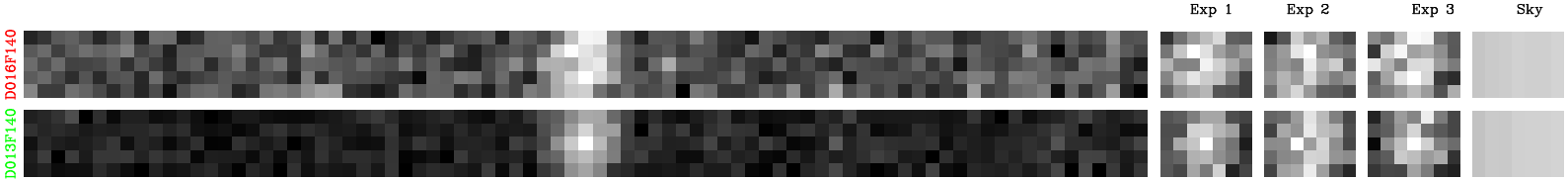
$FWHM_{obs} = 8.53Å$

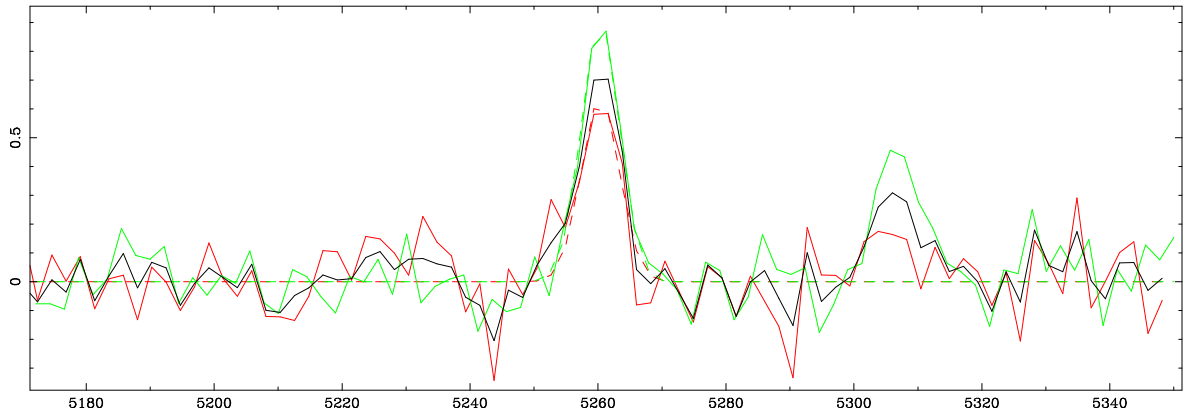
$\lambda_{obs} = 5303.67Å$

$EW_{obs} = 45.41Å$

$\alpha_{2000} = 189.2843°$

$\delta_{2000} = 62.1825°$





S/N = 13.22

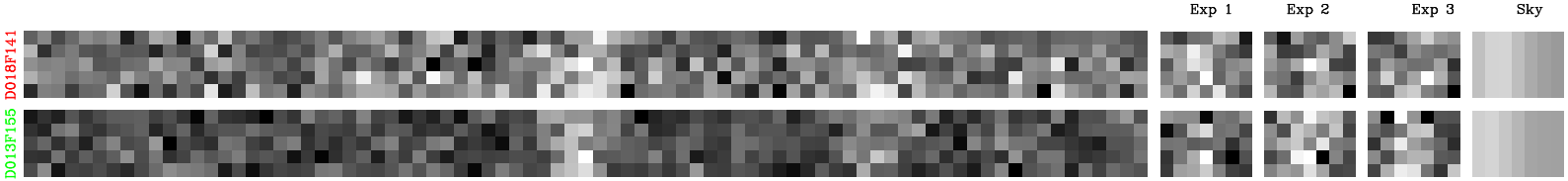
$FWHM_{obs}$ = 7.05Å

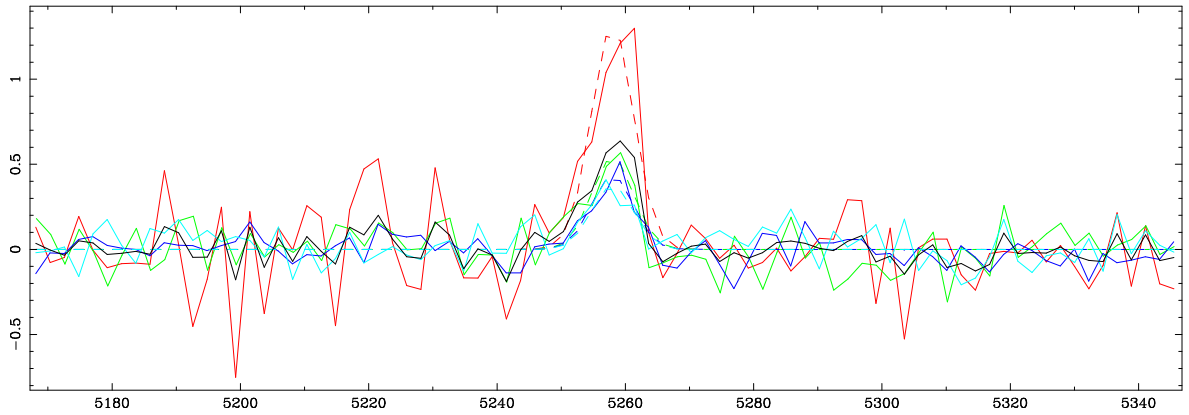
λ_{obs} = 5260.37Å

EW_{obs} = 56.48Å

α_{2000} = 189.2865°

δ_{2000} = 62.1811°





$S/N = 13.70$

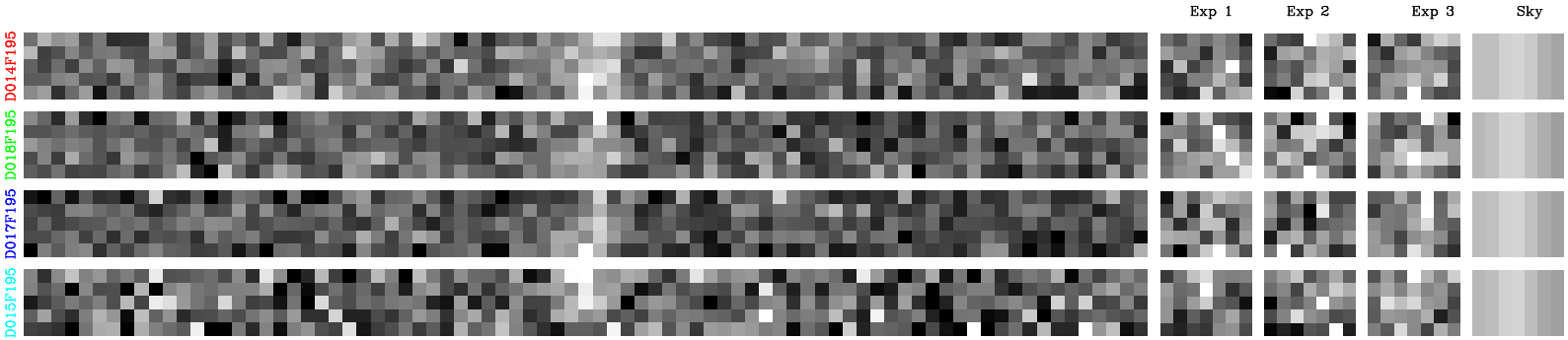
$FWHM_{obs} = 7.75Å$

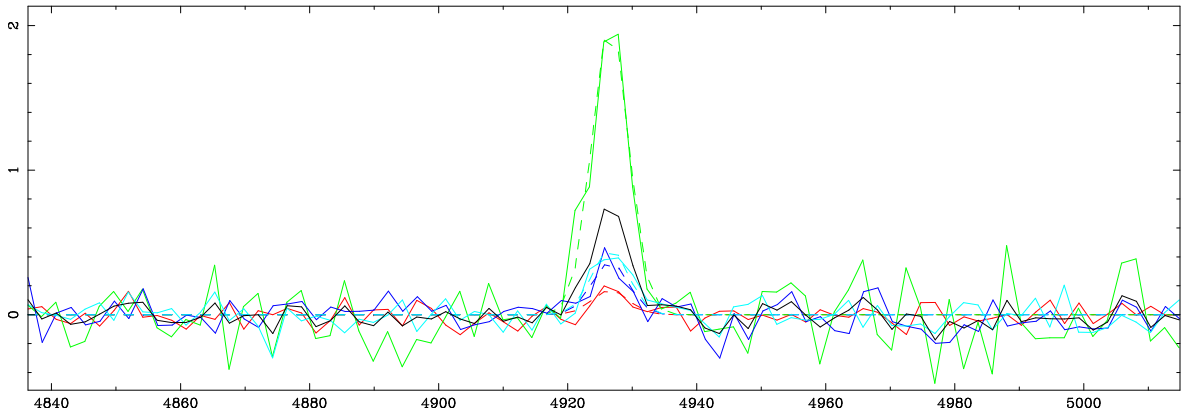
$\lambda_{obs} = 5258.00Å$

$EW_{obs} = 58.71Å$

$\alpha_{2000} = 189.2691°$

$\delta_{2000} = 62.1749°$





$S/N = 13.19$

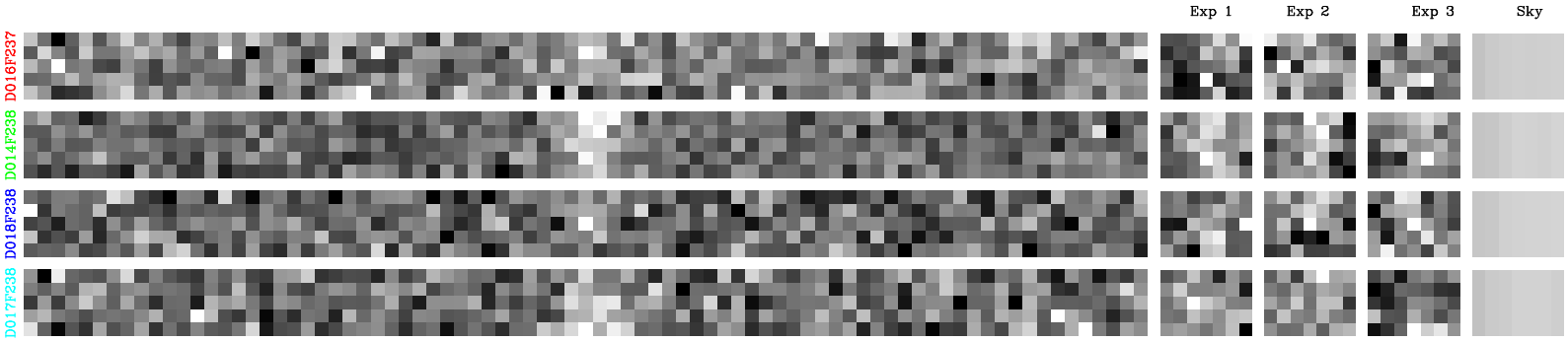
$FWHM_{obs} = 6.67Å$

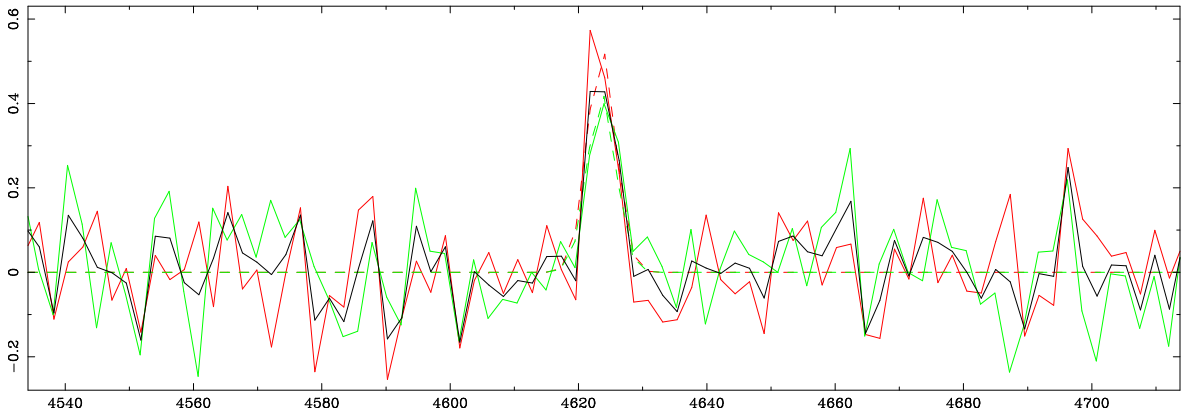
$\lambda_{obs} = 4926.59Å$

$EW_{obs} = 72.71Å$

$\alpha_{2000} = 189.2663°$

$\delta_{2000} = 62.1697°$





S/N = 6.21

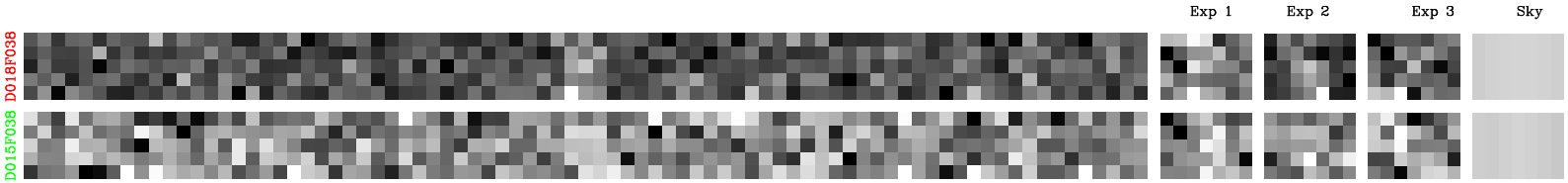
$FWHM_{obs}$ = 5.20Å

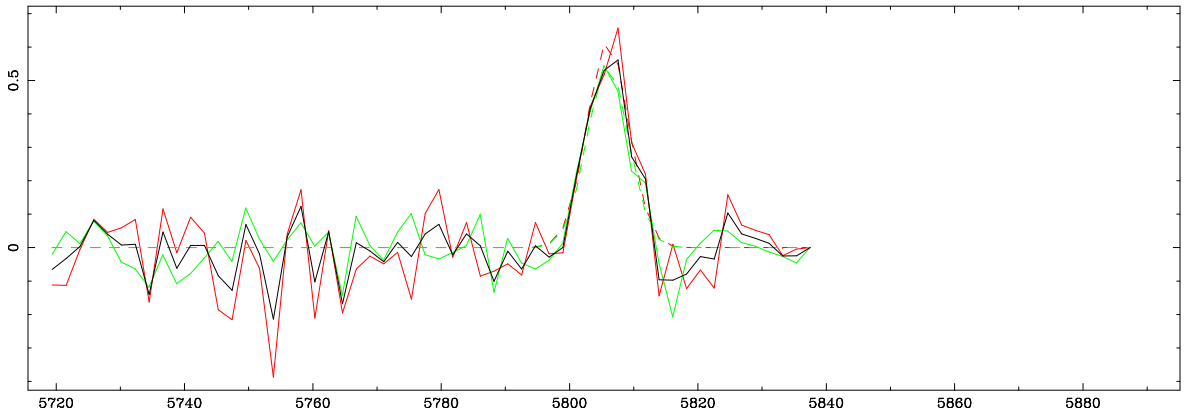
λ_{obs} = 4623.59Å

EW_{obs} = 36.69Å

α_{2000} = 189.2814°

δ_{2000} = 62.1939°





$S/N = 12.14$

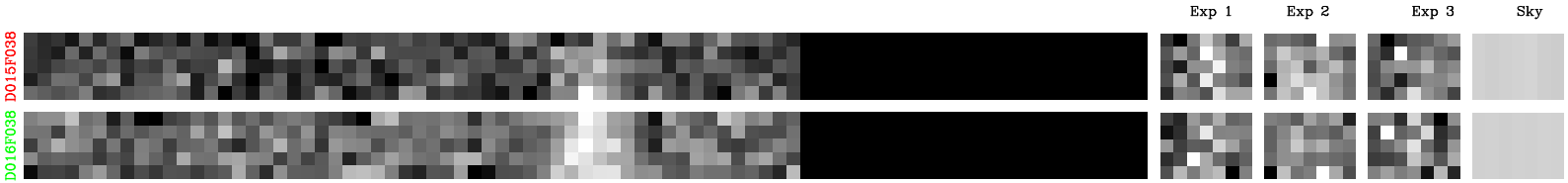
$FWHM_{obs} = 7.59$Å

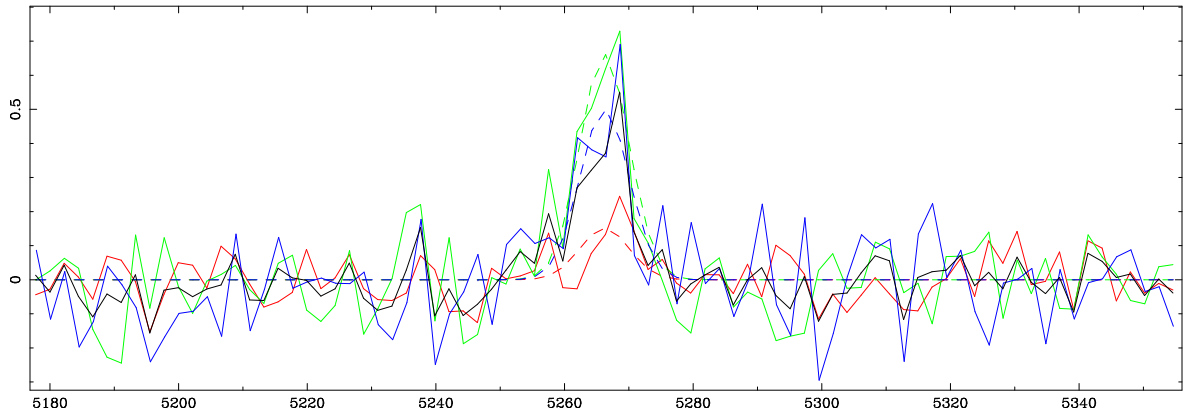
$\lambda_{obs} = 5805.96$Å

$EW_{obs} > 114.66$Å

$\alpha_{2000} = 189.2826°$

$\delta_{2000} = 62.1942°$





$S/N = 12.24$

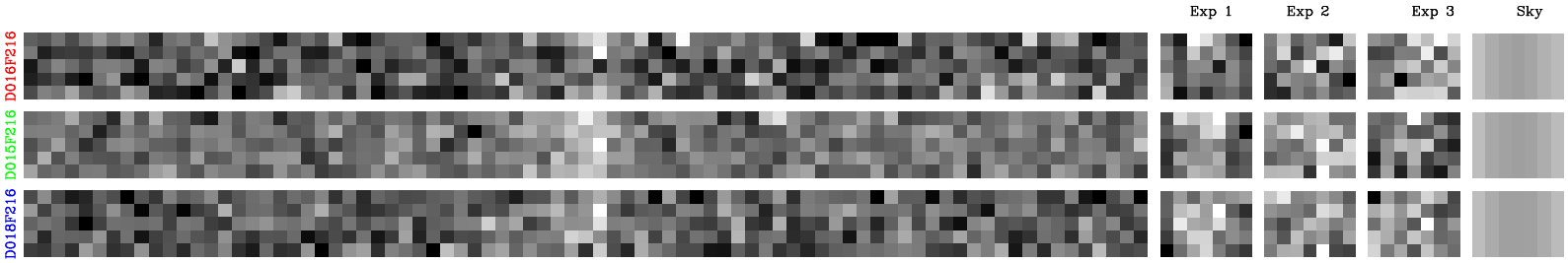
$FWHM_{obs} = 9.01$Å

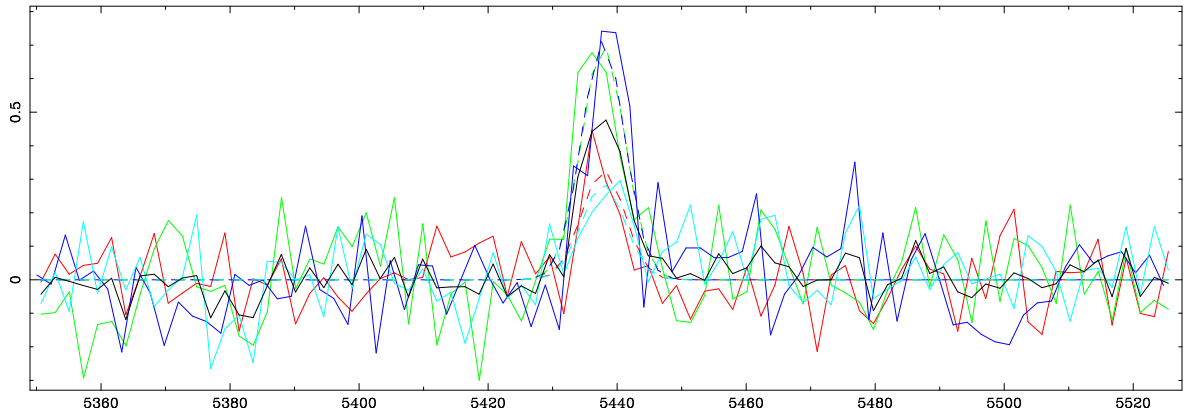
$\lambda_{obs} = 5266.21$Å

$EW_{obs} = 93.41$Å

$\alpha_{2000} = 189.2986°$

$\delta_{2000} = 62.1726°$





S/N = 12.94

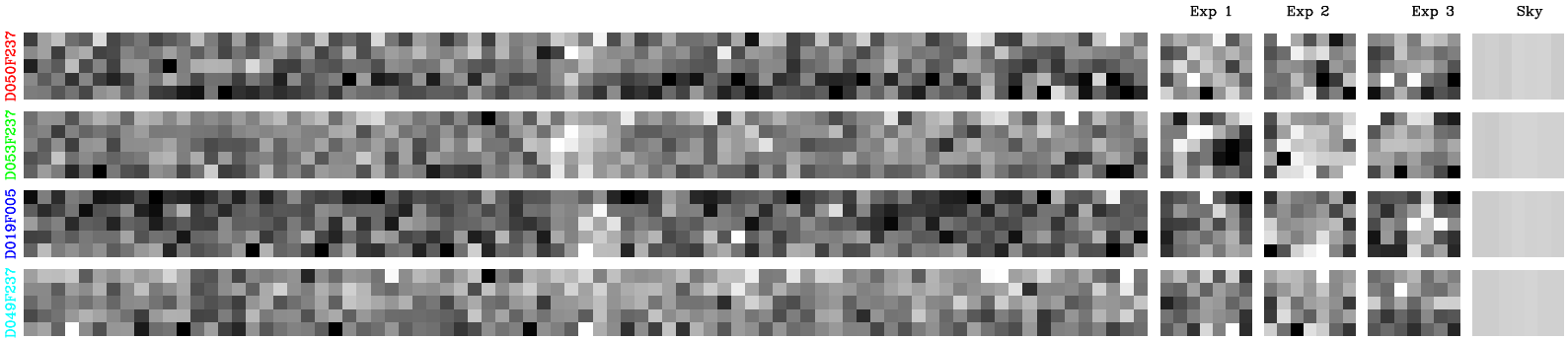
$FWHM_{obs}$ = 7.86Å

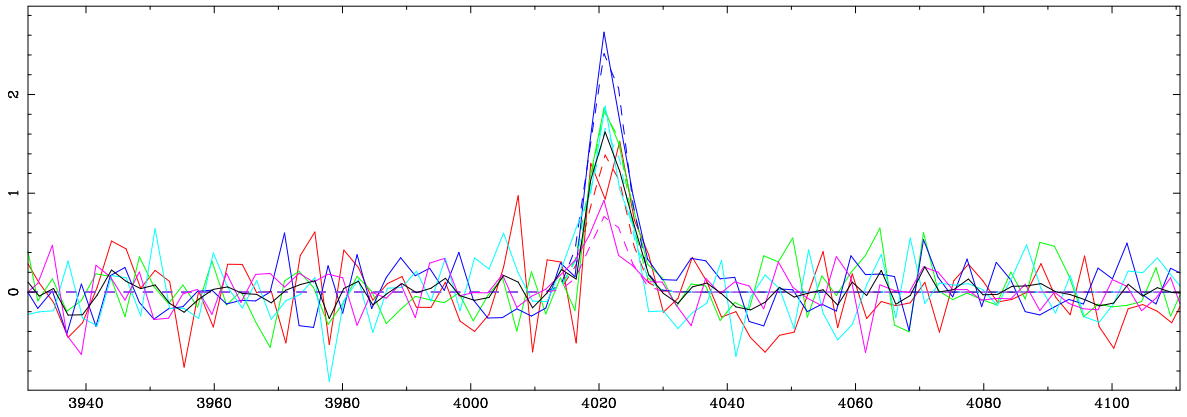
λ_{obs} = 5437.85Å

EW_{obs} = 40.56Å

α_{2000} = 189.1402°

δ_{2000} = 62.1990°





$S/N = 14.08$

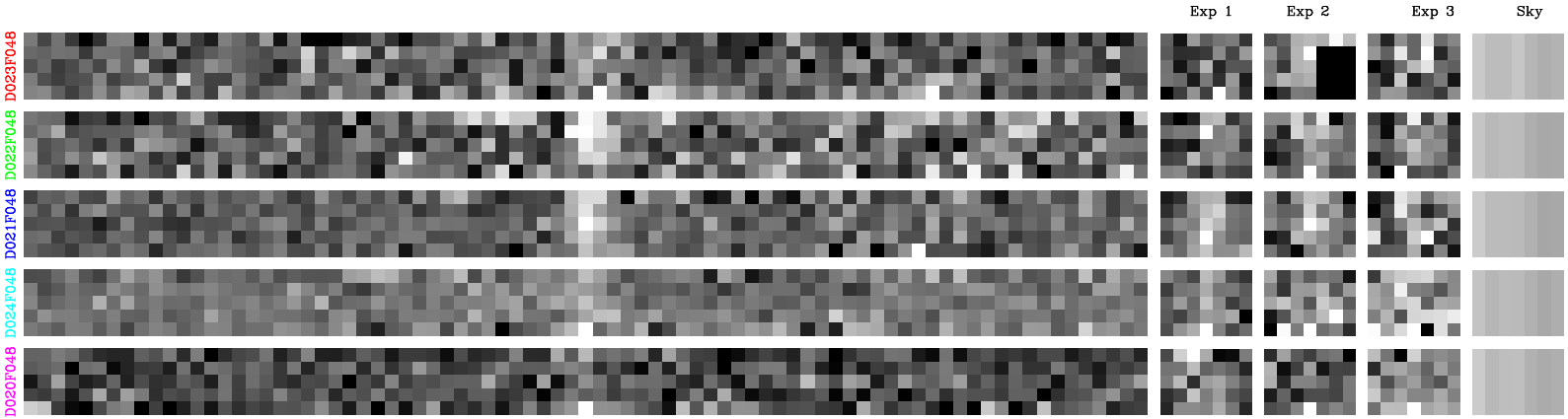
$FWHM_{obs} = 6.45Å$

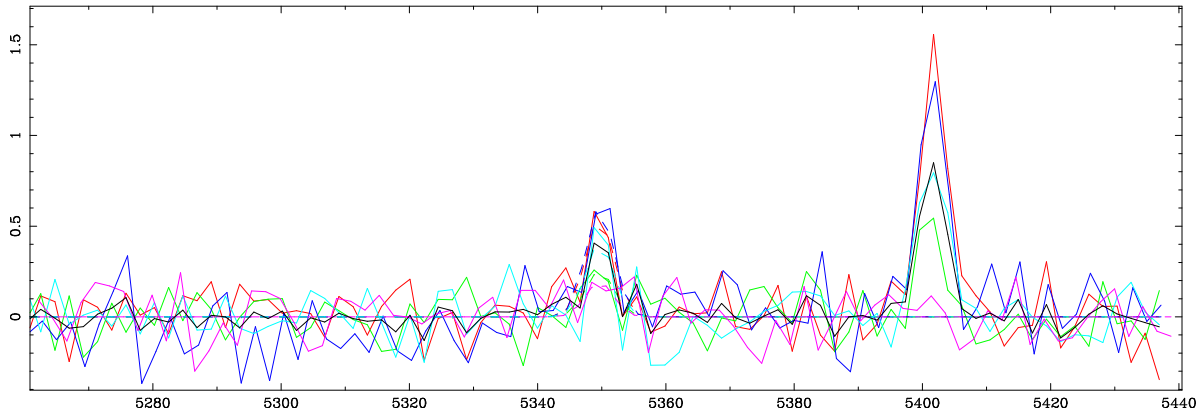
$\lambda_{obs} = 4021.40Å$

$EW_{obs} = 44.96Å$

$\alpha_{2000} = 189.1378°$

$\delta_{2000} = 62.1926°$





S/N = 6.62

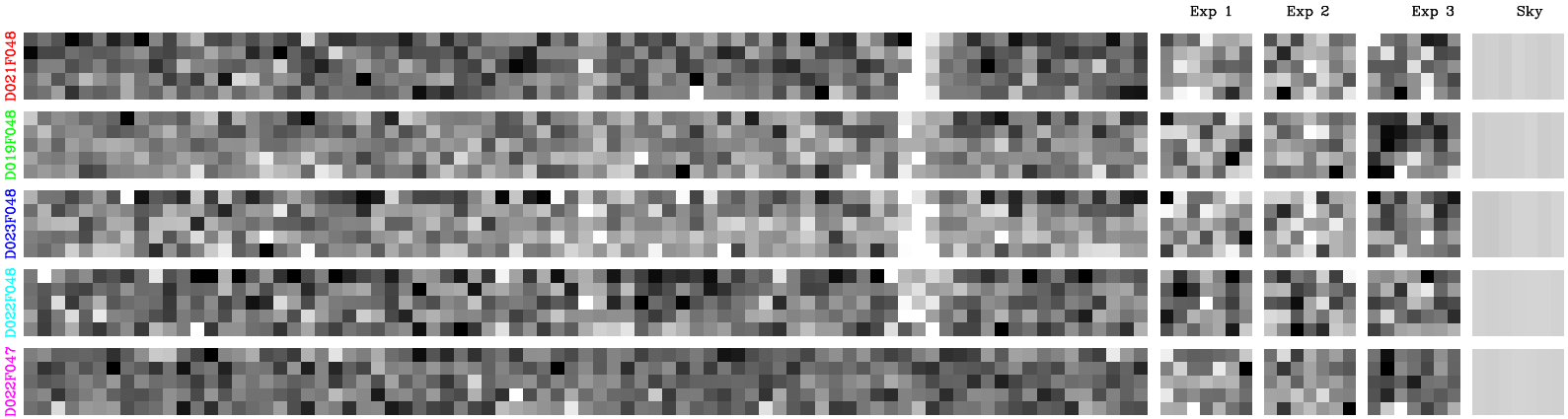
$FWHM_{obs}$ = 5.20Å

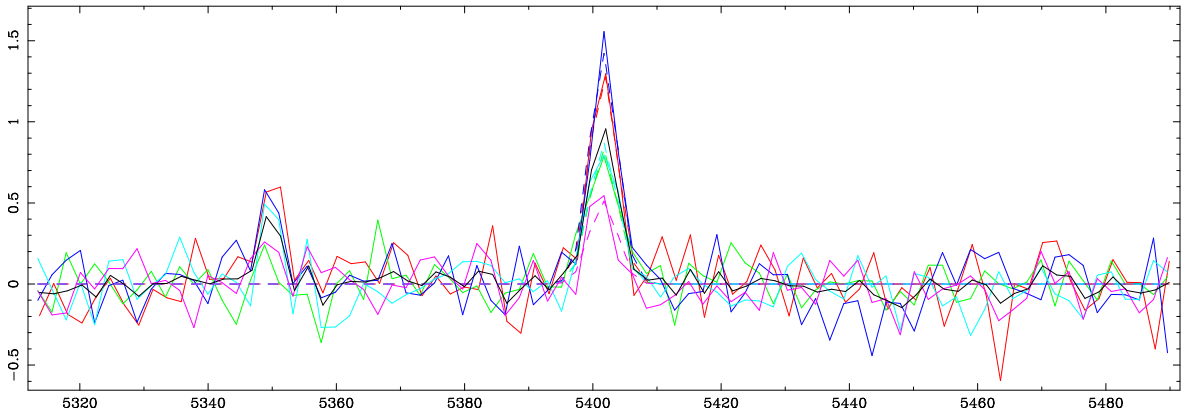
λ_{obs} = 5349.64Å

EW_{obs} = 7.89Å

α_{2000} = 189.1377°

δ_{2000} = 62.1929°





S/N = 17.13

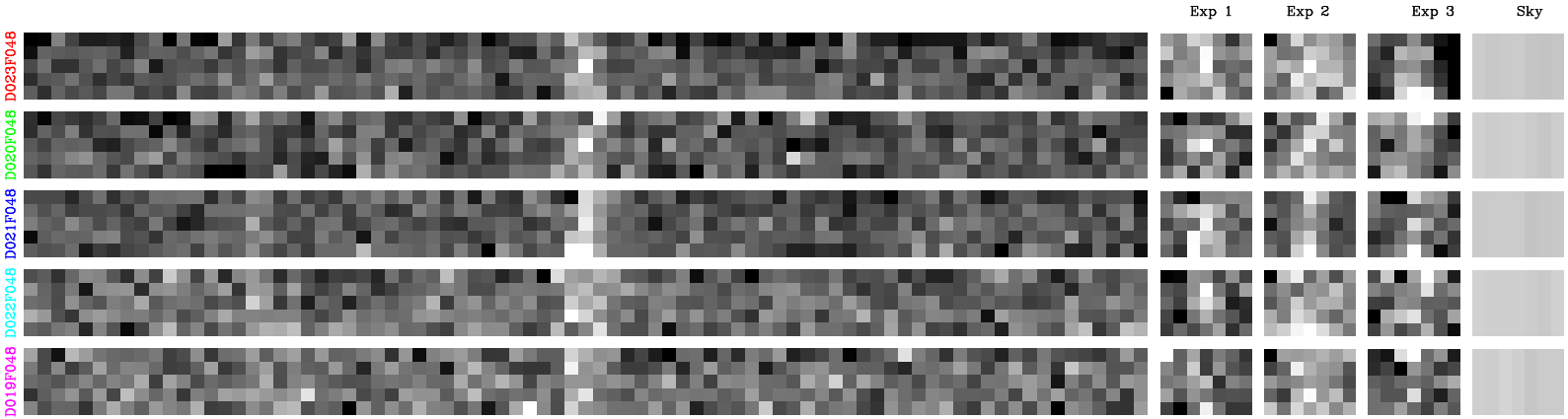
$FWHM_{obs}$ = 5.20Å

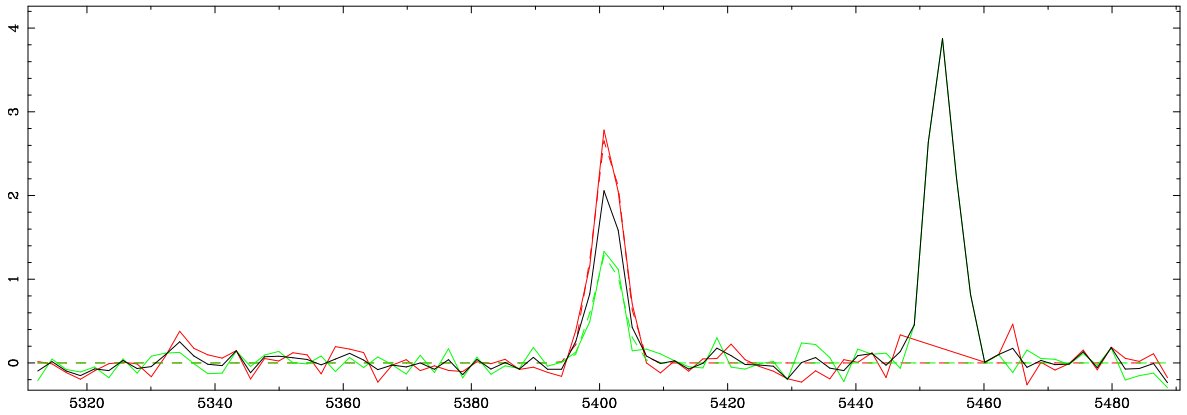
λ_{obs} = 5401.64Å

EW_{obs} = 18.77Å

α_{2000} = 189.1378°

δ_{2000} = 62.1929°





$S/N = 22.98$

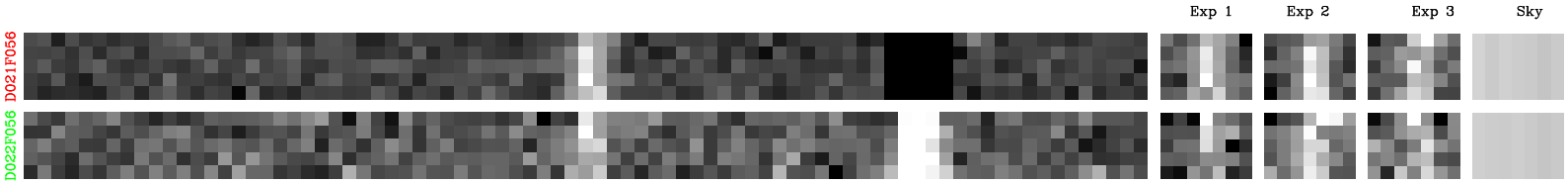
$FWHM_{obs} = 5.23$Å

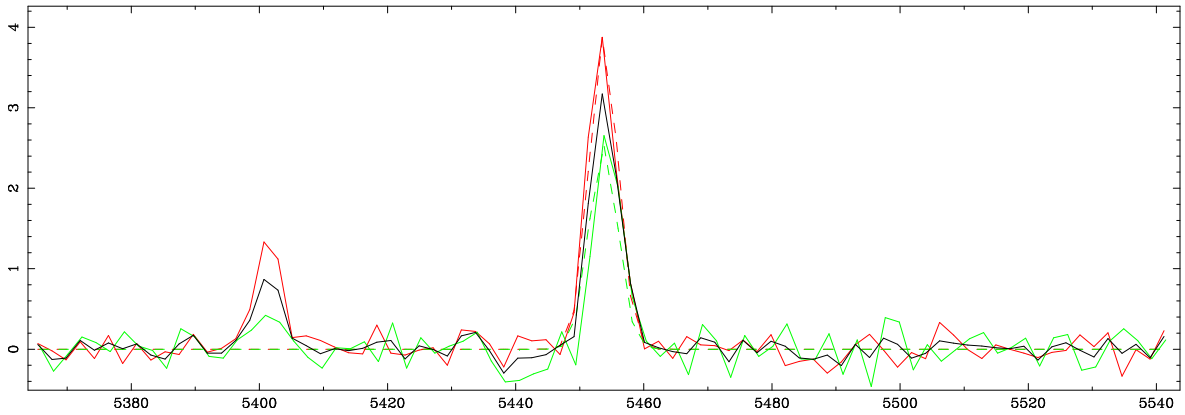
$\lambda_{obs} = 5401.30$Å

$EW_{obs} = 10.81$Å

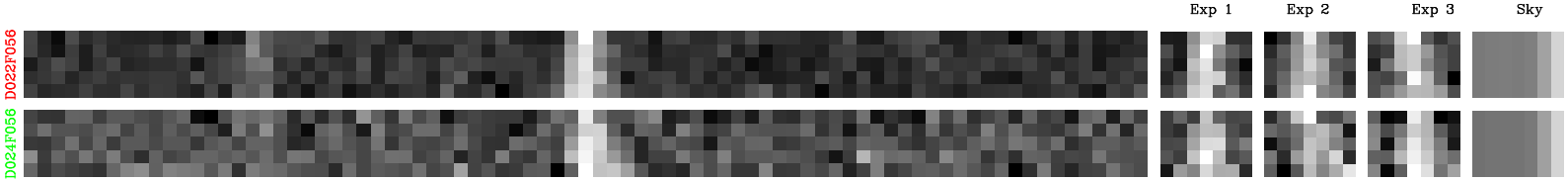
$\alpha_{2000} = 189.1736°$

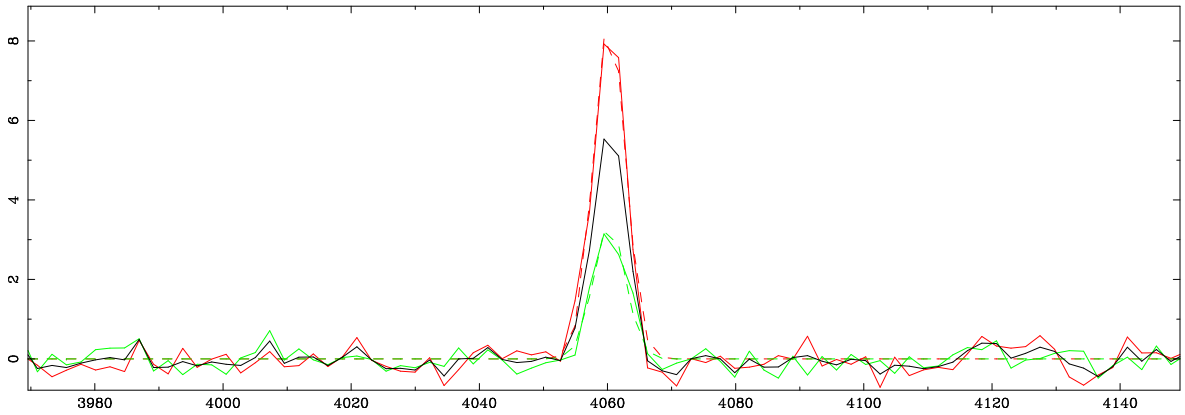
$\delta_{2000} = 62.1922°$





S/N = 28.08
$FWHM_{obs}$ = 5.27Å
λ_{obs} = 5453.70Å
EW_{obs} = 32.20Å
α_{2000} = 189.1732°
δ_{2000} = 62.1924°





$S/N = 32.82$

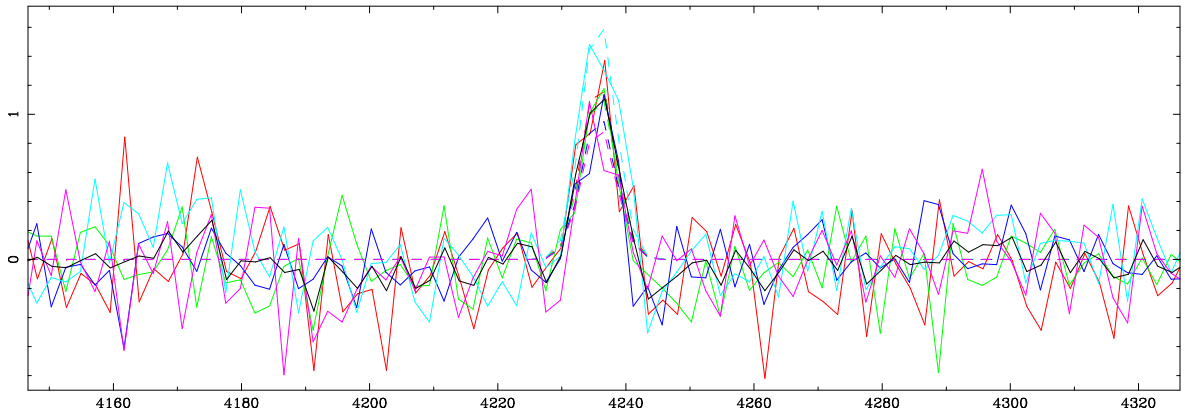
$FWHM_{obs} = 5.85Å$

$\lambda_{obs} = 4060.29Å$

$EW_{obs} = 42.34Å$

$\alpha_{2000} = 189.1736°$

$\delta_{2000} = 62.1922°$



S/N = 15.92

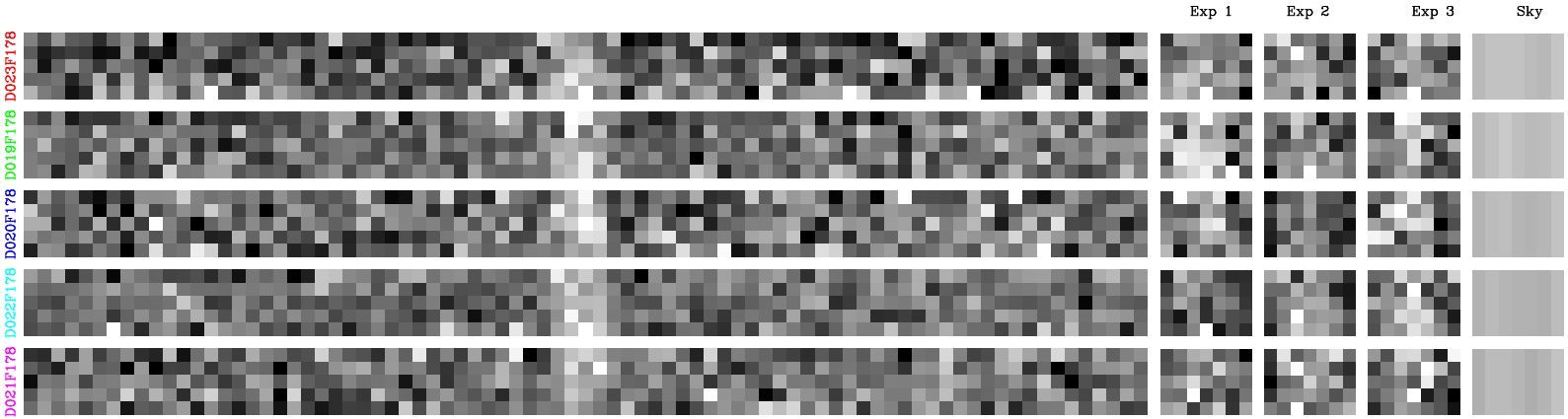
$FWHM_{obs}$ = 6.22Å

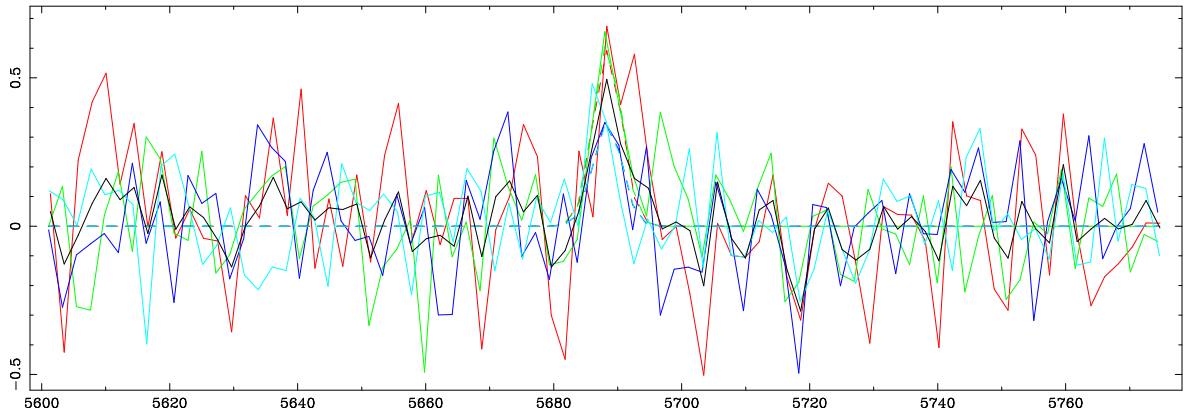
λ_{obs} = 4235.73Å

EW_{obs} = 28.48Å

α_{2000} = 189.1353°

δ_{2000} = 62.1769°





S/N = 6.67

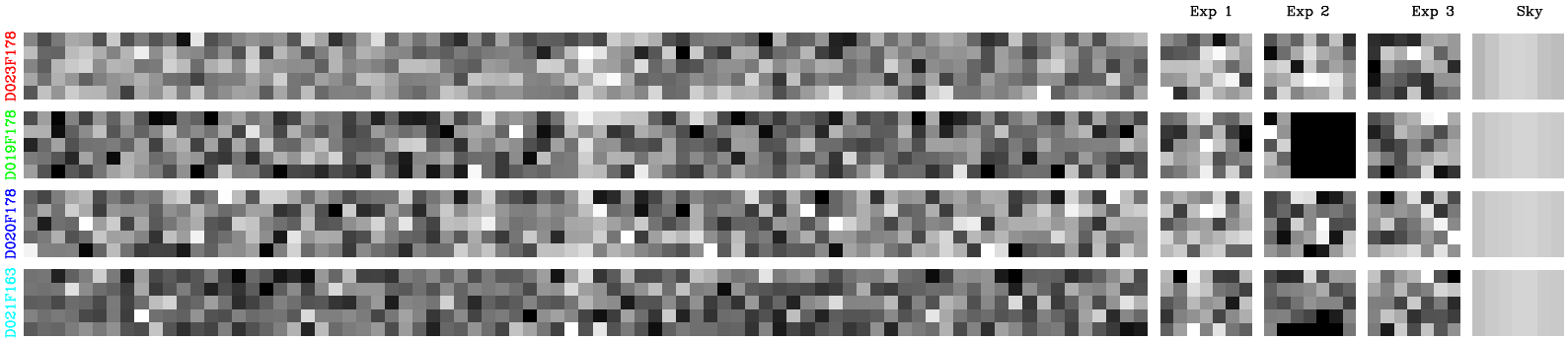
$FWHM_{obs}$ = 5.21Å

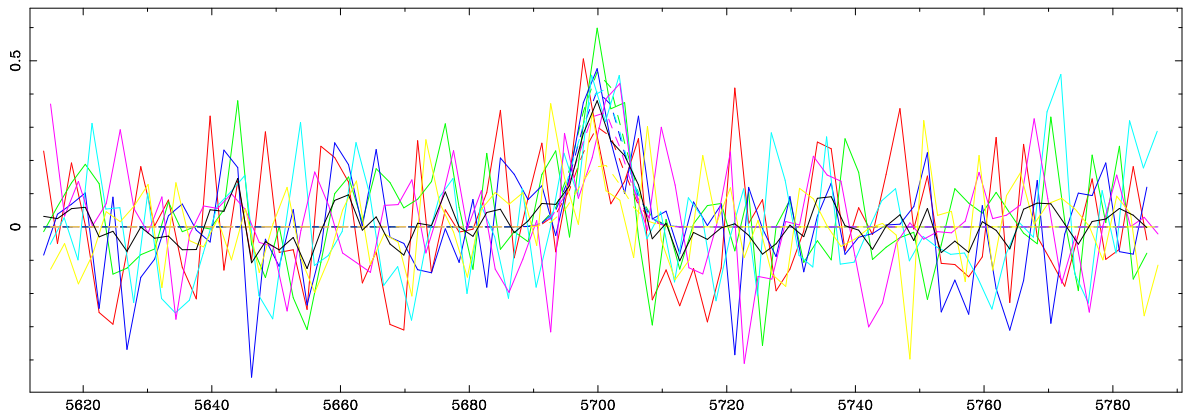
λ_{obs} = 5688.39Å

EW_{obs} = 9.54Å

α_{2000} = 189.1345°

δ_{2000} = 62.1774°





$S/N = 8.65$

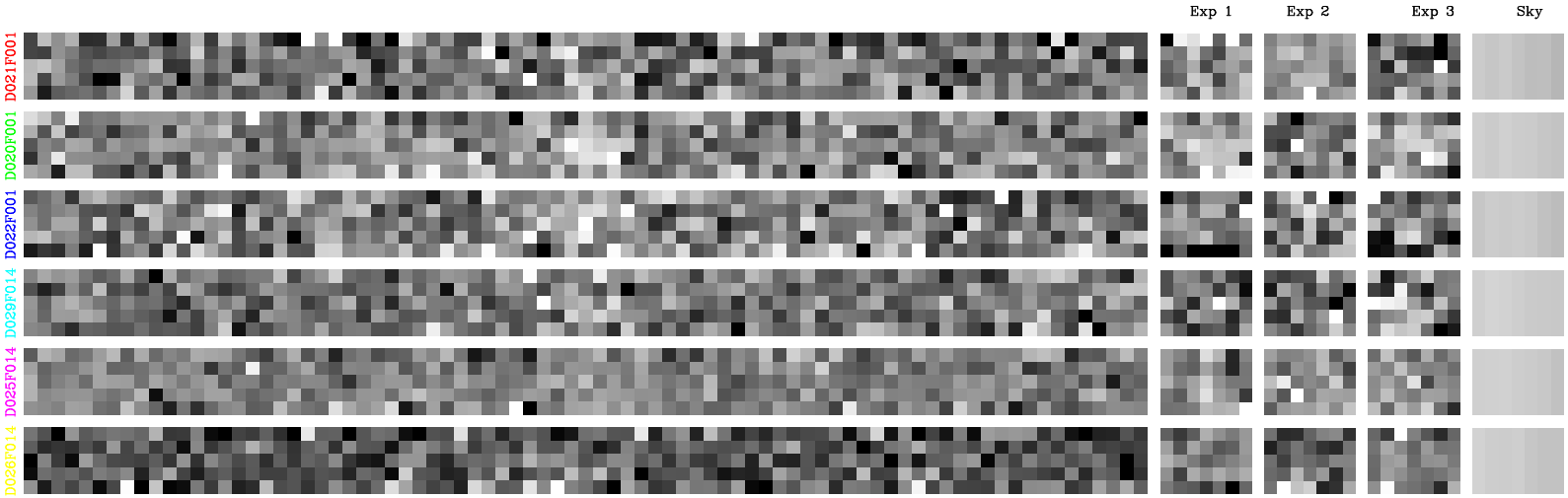
$FWHM_{obs} = 7.97Å$

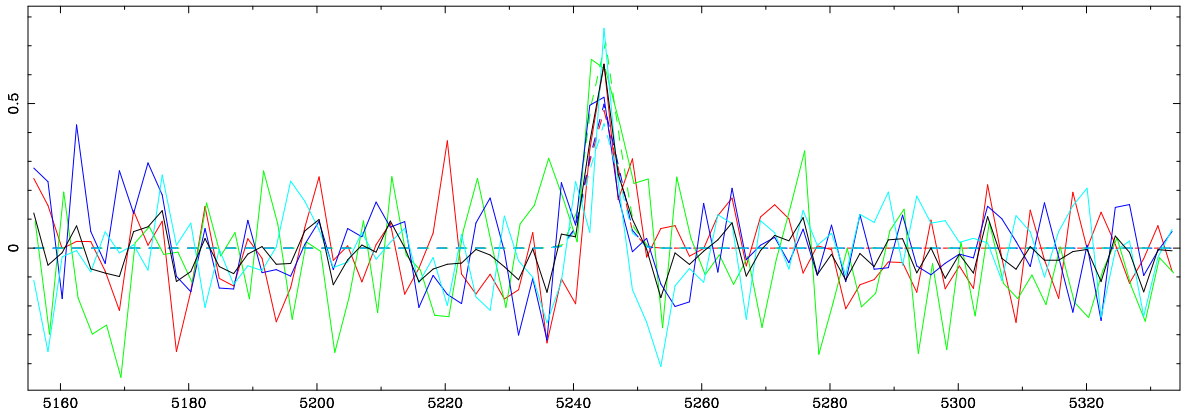
$\lambda_{obs} = 5700.37Å$

$EW_{obs} = 47.39Å$

$\alpha_{2000} = 189.1218°$

$\delta_{2000} = 62.1980°$





S/N = 7.76

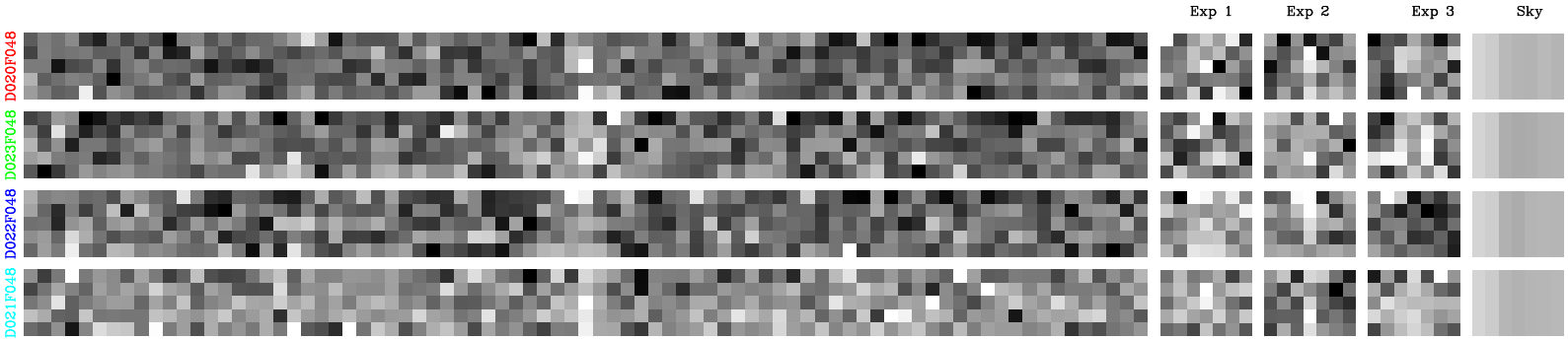
$FWHM_{obs}$ = 5.20Å

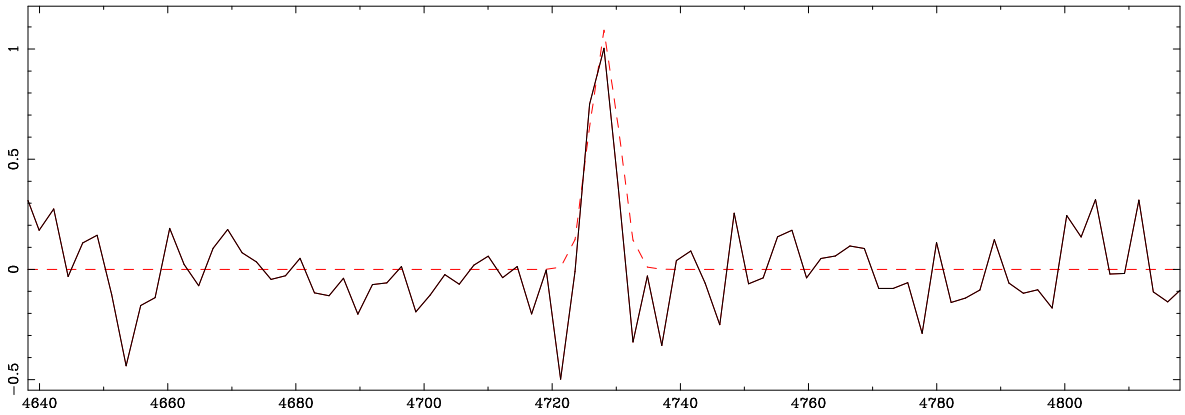
λ_{obs} = 5244.68Å

EW_{obs} = 9.81Å

α_{2000} = 189.1376°

δ_{2000} = 62.1929°





S/N = 7.24

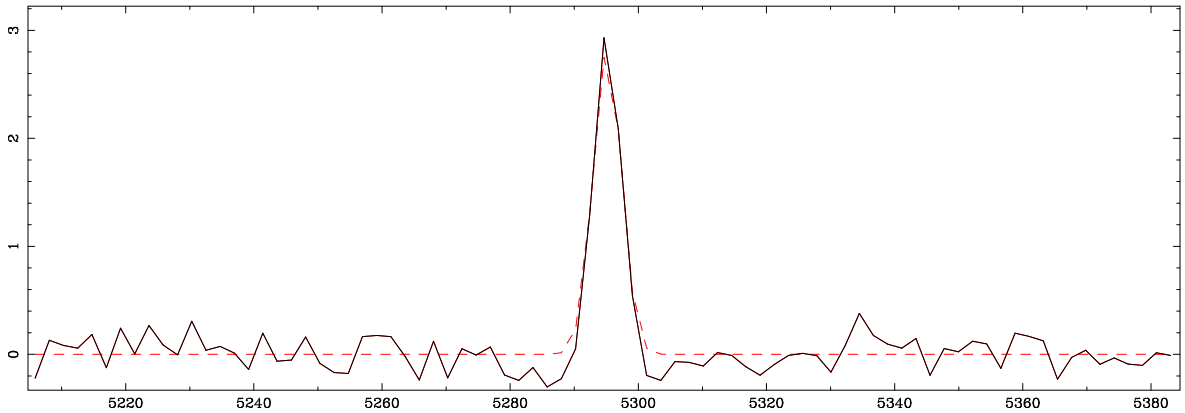
$FWHM_{obs}$ = 5.20Å

λ_{obs} = 4728.08Å

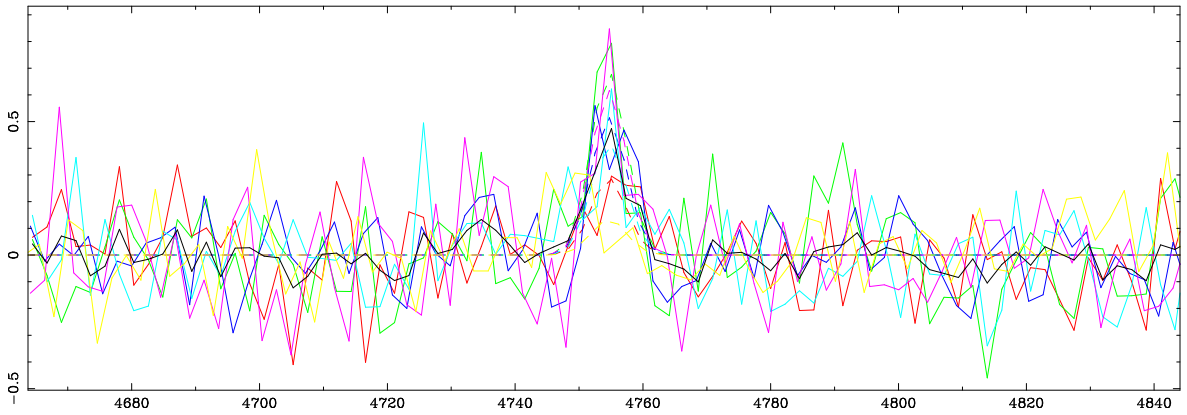
EW_{obs} = 3.24Å

α_{2000} = 189.1734°

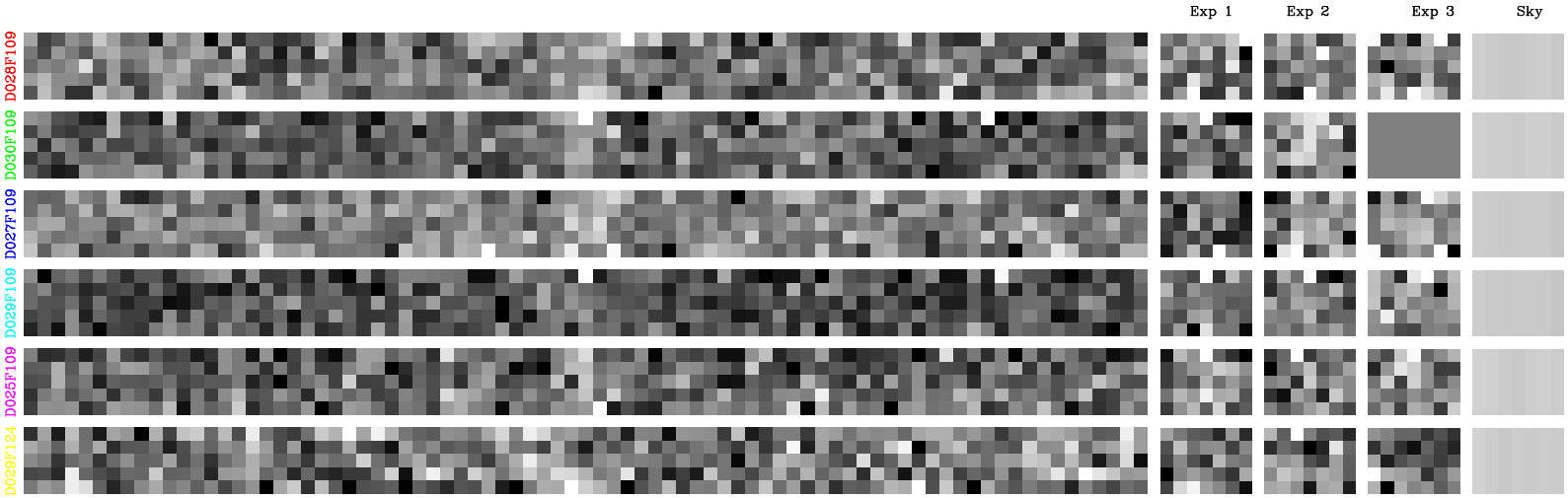
δ_{2000} = 62.1920°

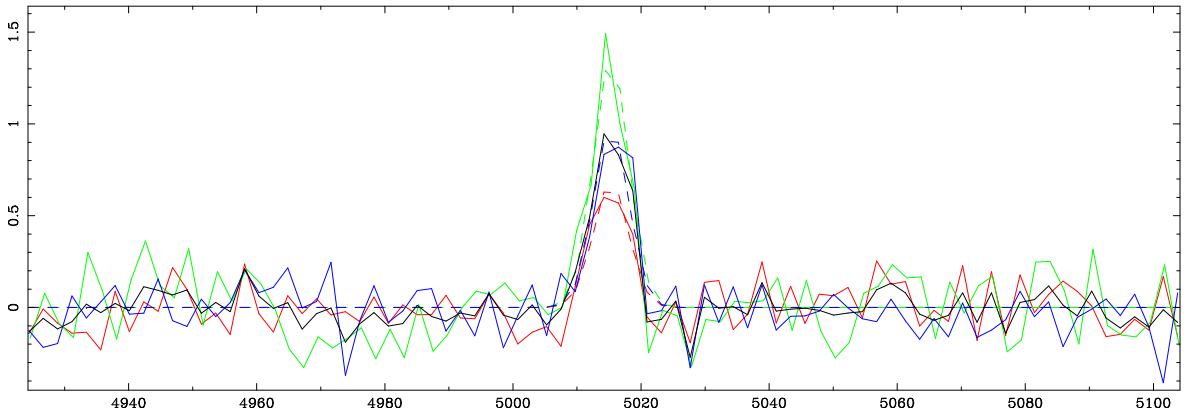


S/N = 19.34
$FWHM_{obs}$ = 5.20Å
λ_{obs} = 5295.14Å
EW_{obs} = 10.16Å
α_{2000} = 189.1734°
δ_{2000} = 62.1920°



S/N = 10.50
$FWHM_{obs}$ = 6.56Å
λ_{obs} = 4754.65Å
EW_{obs} = 28.03Å
α_{2000} = 189.0926°
δ_{2000} = 62.1851°





$S/N = 17.31$

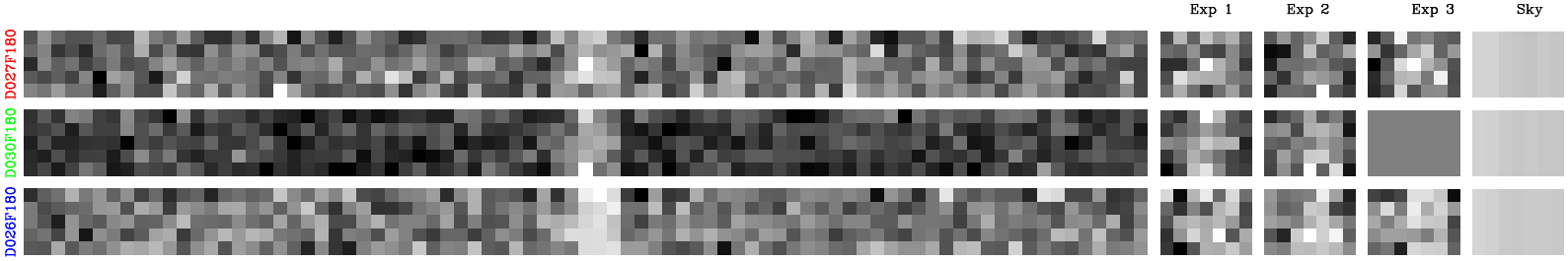
$FWHM_{obs} = 6.49Å$

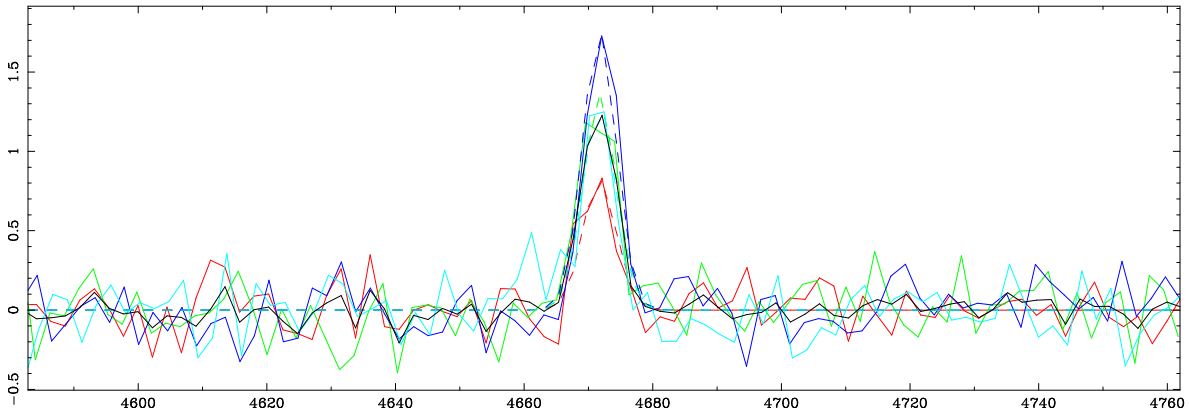
$\lambda_{obs} = 5015.31Å$

$EW_{obs} = 72.28Å$

$\alpha_{2000} = 189.0849°$

$\delta_{2000} = 62.1759°$





S/N = 18.52

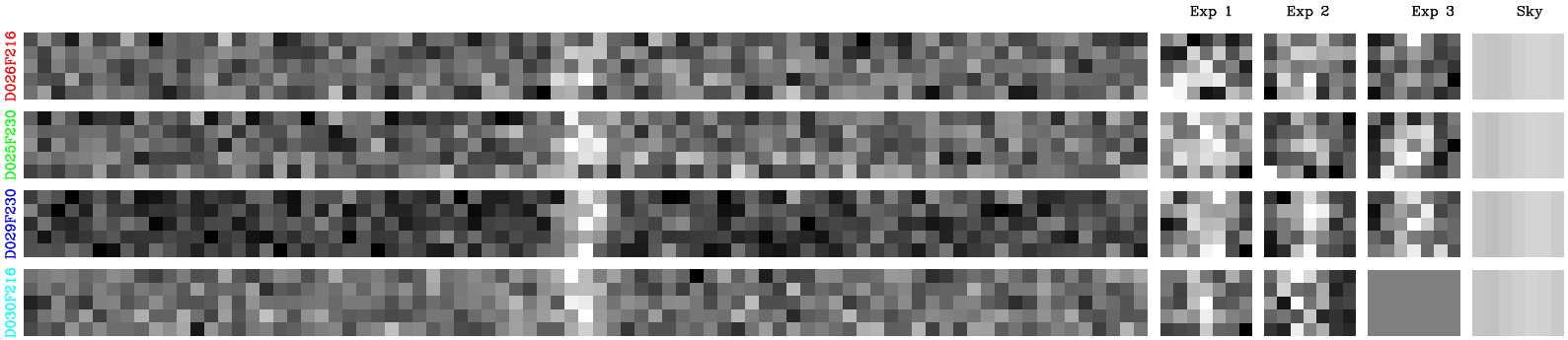
$FWHM_{obs}$ = 6.13Å

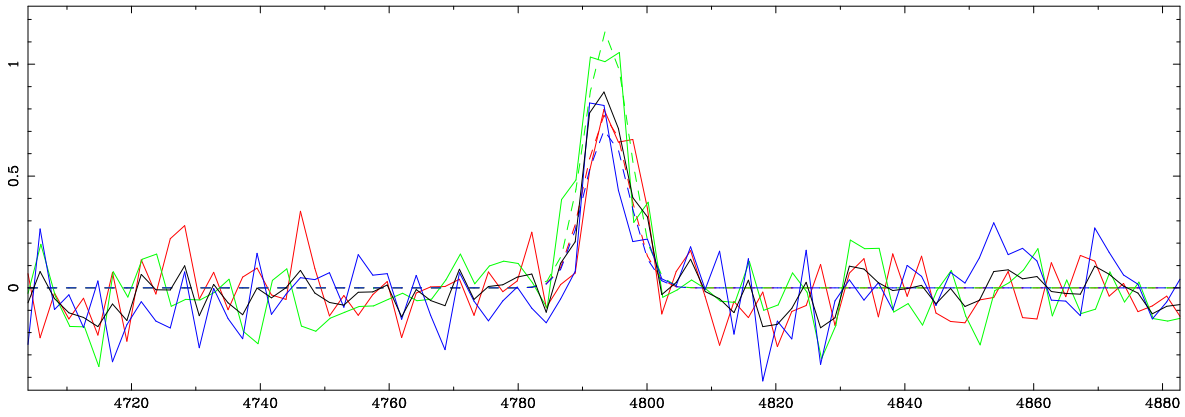
λ_{obs} = 4671.71Å

EW_{obs} = 47.88Å

α_{2000} = 189.1142°

δ_{2000} = 62.1717°





$S/N = 16.44$

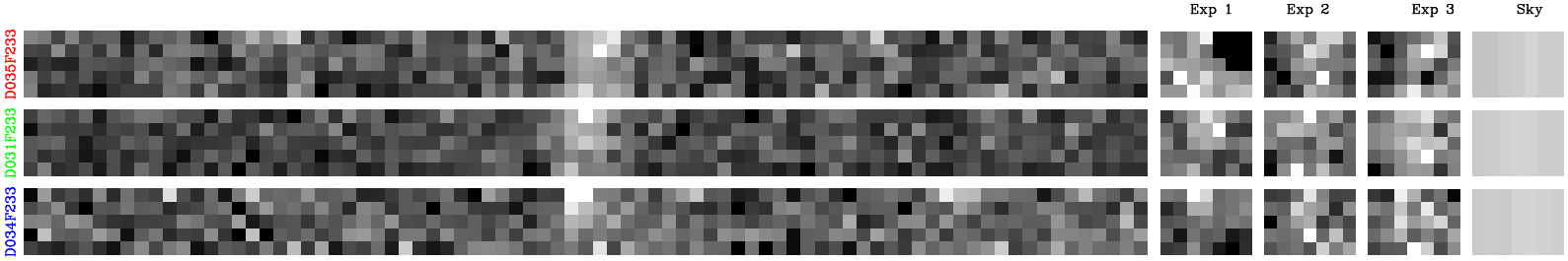
$FWHM_{obs} = 8.08Å$

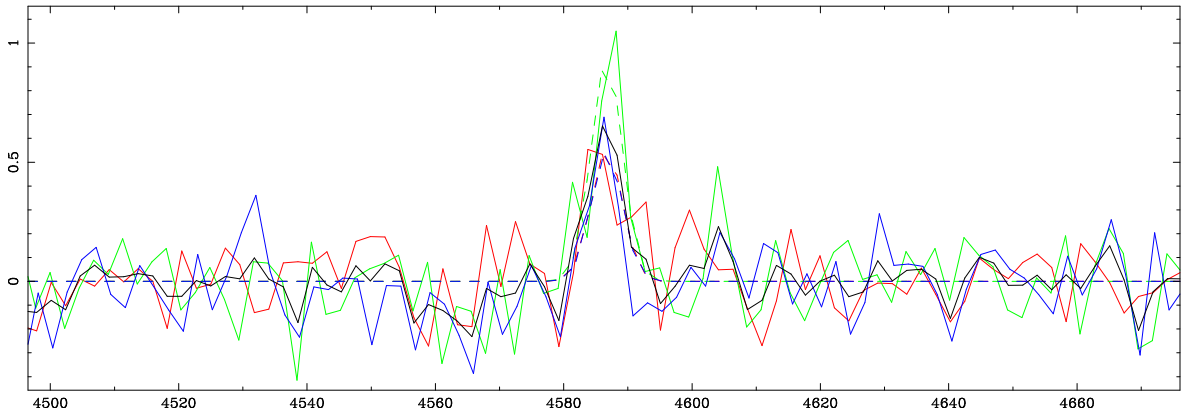
$\lambda_{obs} = 4793.73Å$

$EW_{obs} = 44.61Å$

$\alpha_{2000} = 189.0591°$

$\delta_{2000} = 62.1968°$





$S/N = 9.36$

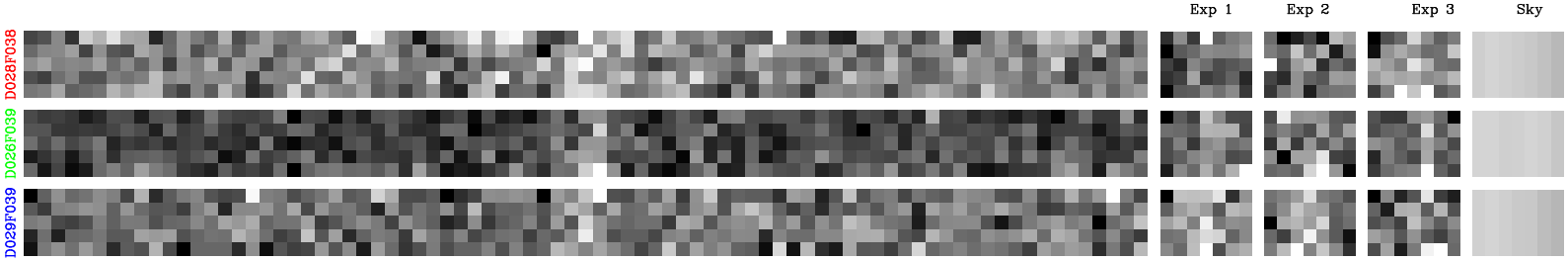
$FWHM_{obs} = 5.70Å$

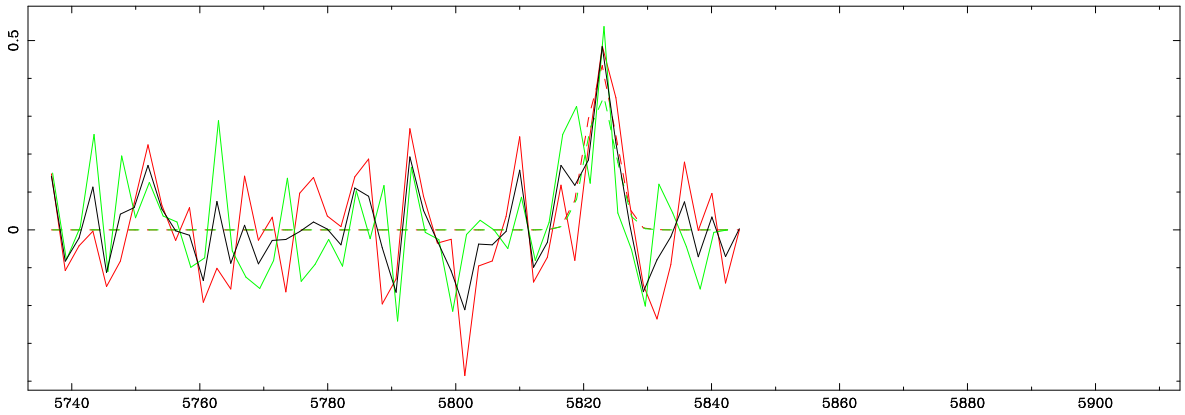
$\lambda_{obs} = 4586.69Å$

$EW_{obs} = 36.84Å$

$\alpha_{2000} = 189.1019°$

$\delta_{2000} = 62.1942°$





S/N = 5.58

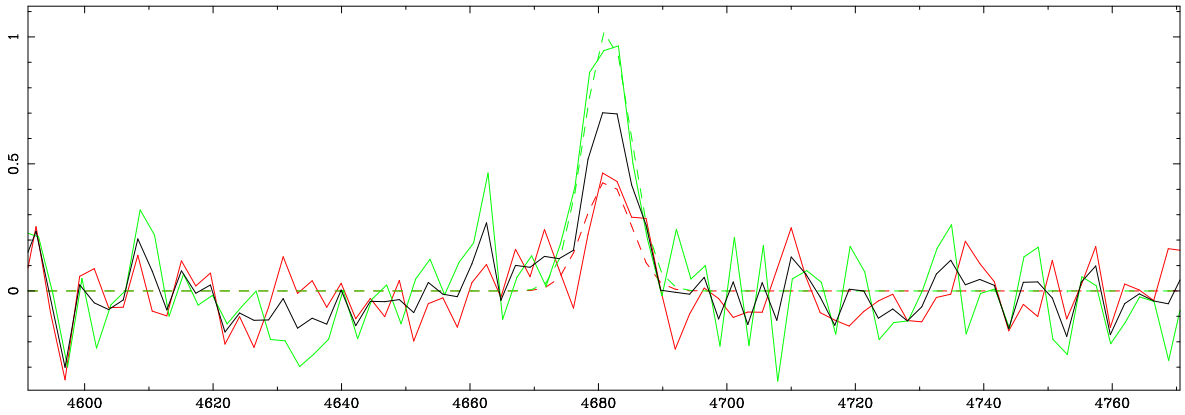
$FWHM_{obs}$ = 5.20Å

λ_{obs} = 5822.71Å

EW_{obs} = 34.29Å

α_{2000} = 189.0968°

δ_{2000} = 62.1905°



S/N = 10.63

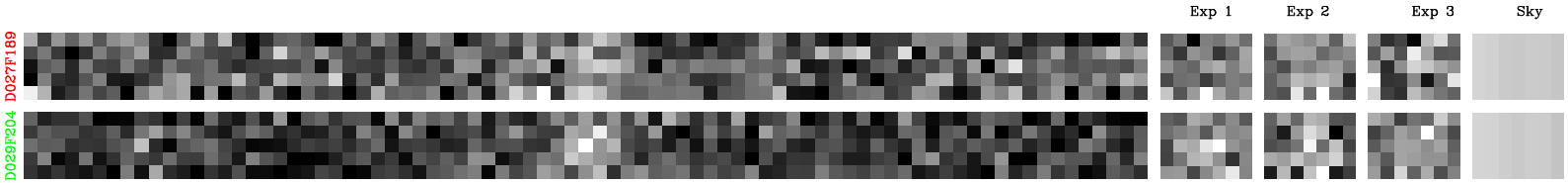
$FWHM_{obs}$ = 8.55Å

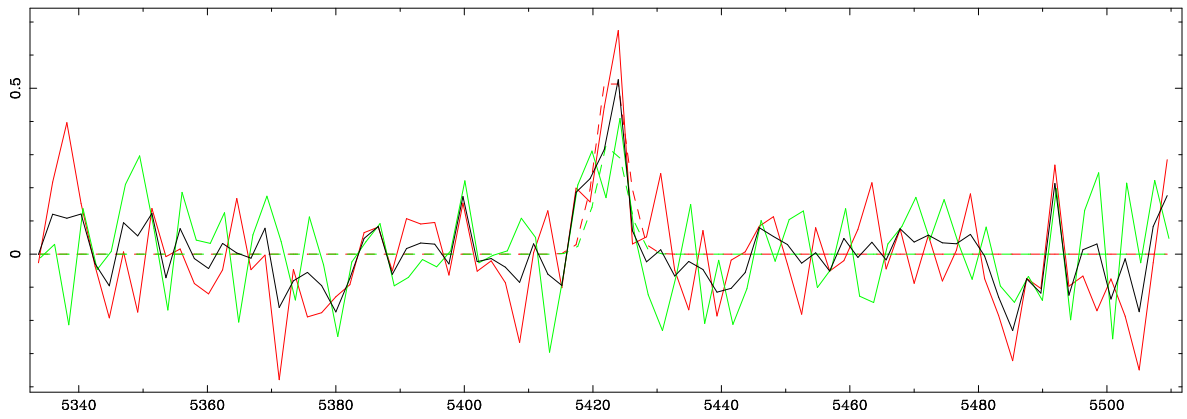
λ_{obs} = 4681.42Å

EW_{obs} = 109.48Å

α_{2000} = 189.0626°

δ_{2000} = 62.1737°





S/N = 6.51

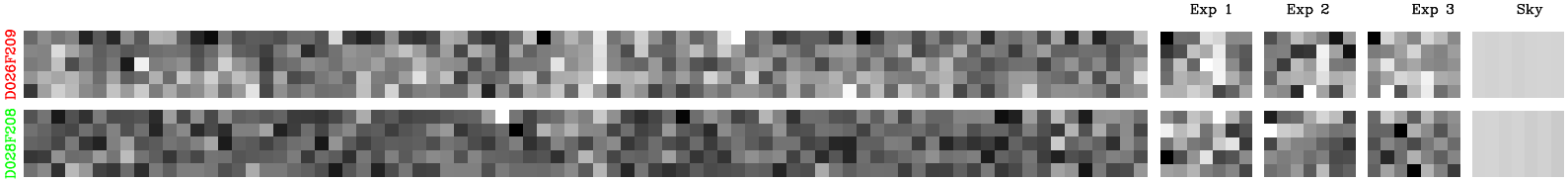
$FWHM_{obs}$ = 5.26Å

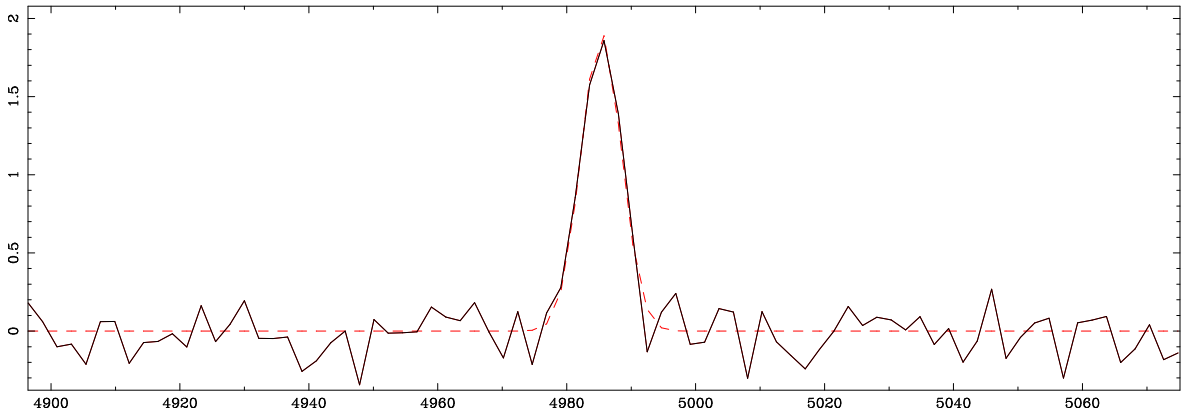
λ_{obs} = 5422.86Å

EW_{obs} = 26.07Å

α_{2000} = 189.0834°

δ_{2000} = 62.1728°





S/N = 18.53

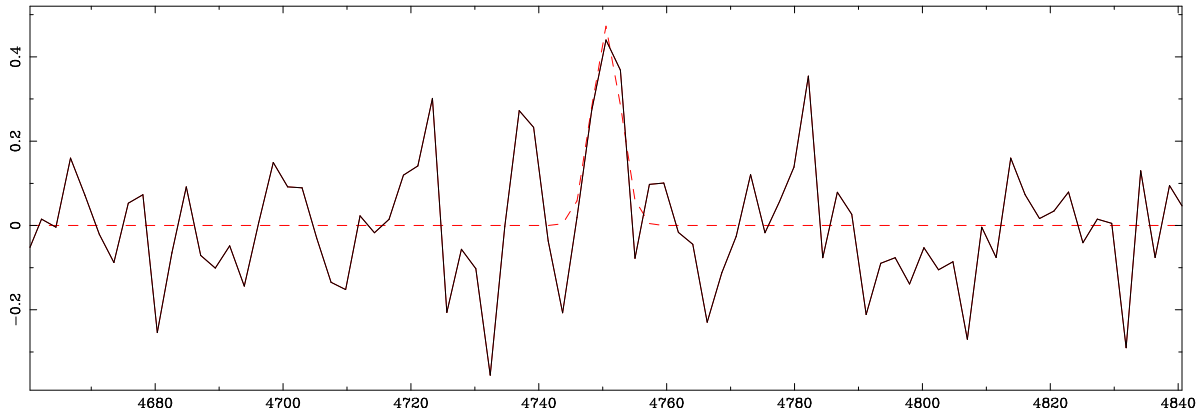
$FWHM_{obs}$ = 7.33Å

λ_{obs} = 4985.35Å

EW_{obs} = 36.95Å

α_{2000} = 189.0664°

δ_{2000} = 62.1693°



S/N = 5.11

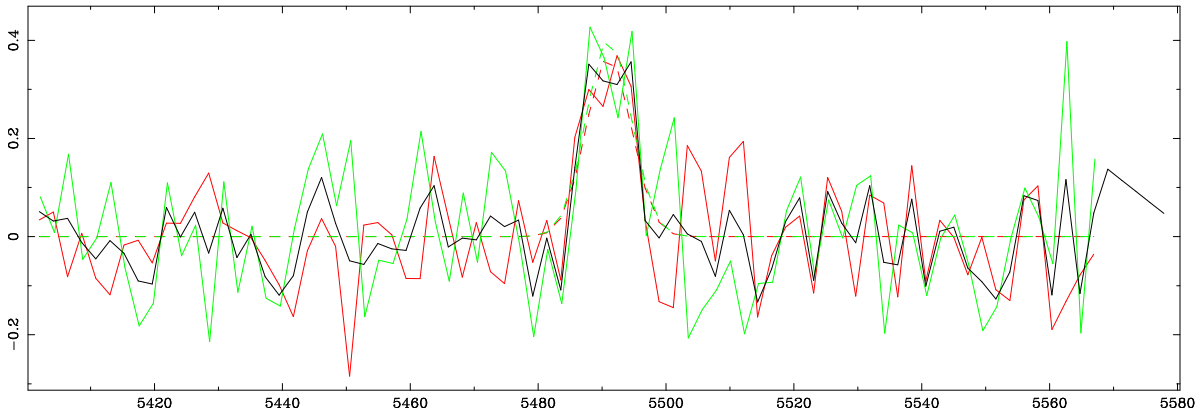
$FWHM_{obs}$ = 5.23Å

λ_{obs} = 4750.52Å

EW_{obs} = 4.91Å

α_{2000} = 189.0818°

δ_{2000} = 62.2146°



S/N = 8.06

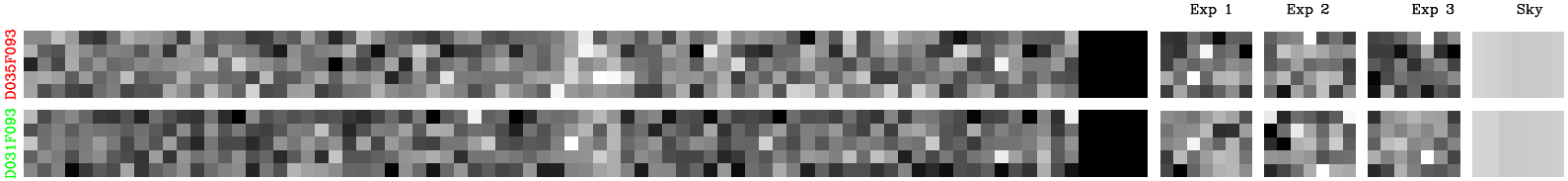
$FWHM_{obs}$ = 8.25Å

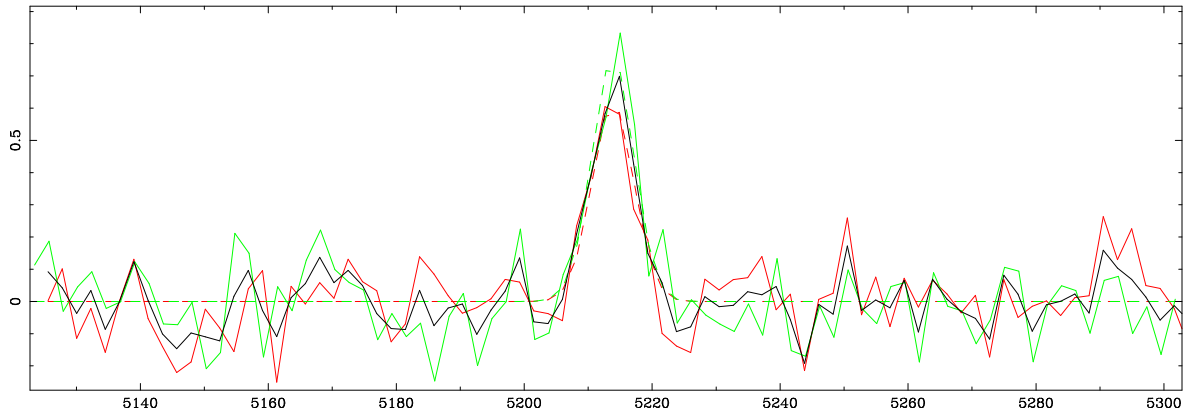
λ_{obs} = 5491.04Å

EW_{obs} = 9.56Å

α_{2000} = 189.0810°

δ_{2000} = 62.2146°





S/N = 12.18

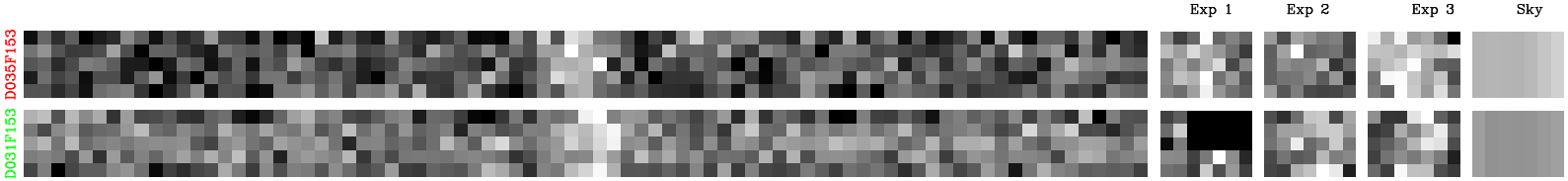
$FWHM_{obs}$ = 7.69Å

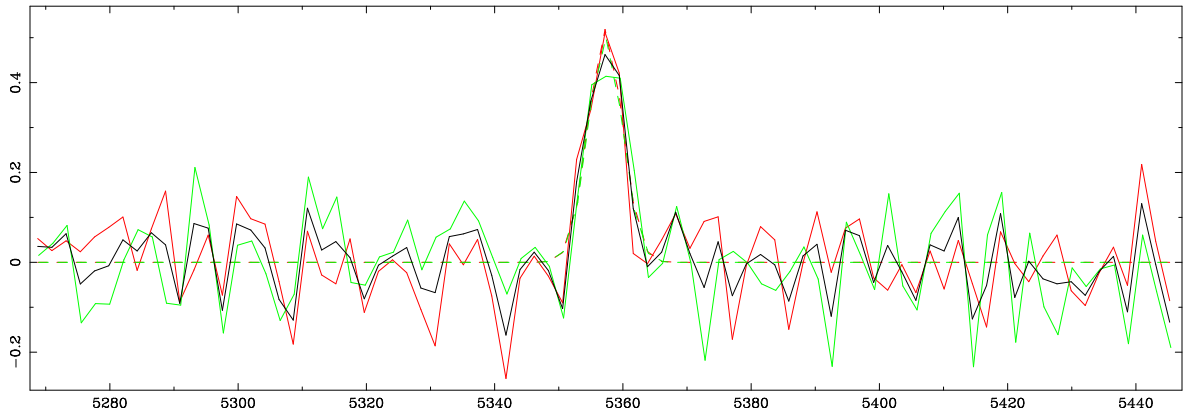
λ_{obs} = 5213.86Å

EW_{obs} = 19.45Å

α_{2000} = 189.0896°

δ_{2000} = 62.2074°





S/N = 8.55

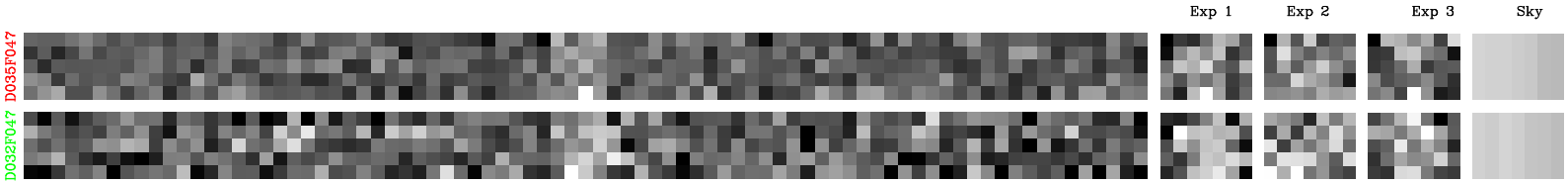
$FWHM_{obs}$ = 6.23Å

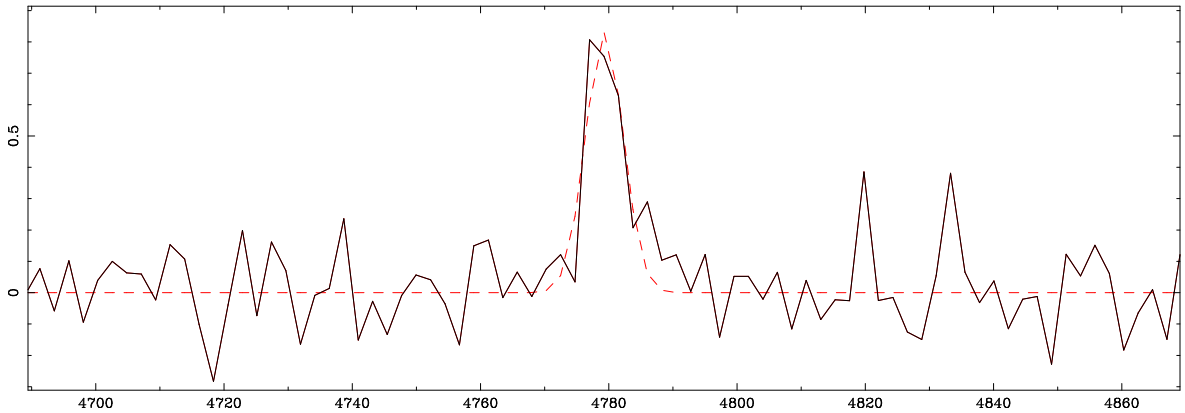
λ_{obs} = 5357.26Å

EW_{obs} > 94.20Å

α_{2000} = 189.0691°

δ_{2000} = 62.2197°





$S/N = 8.97$

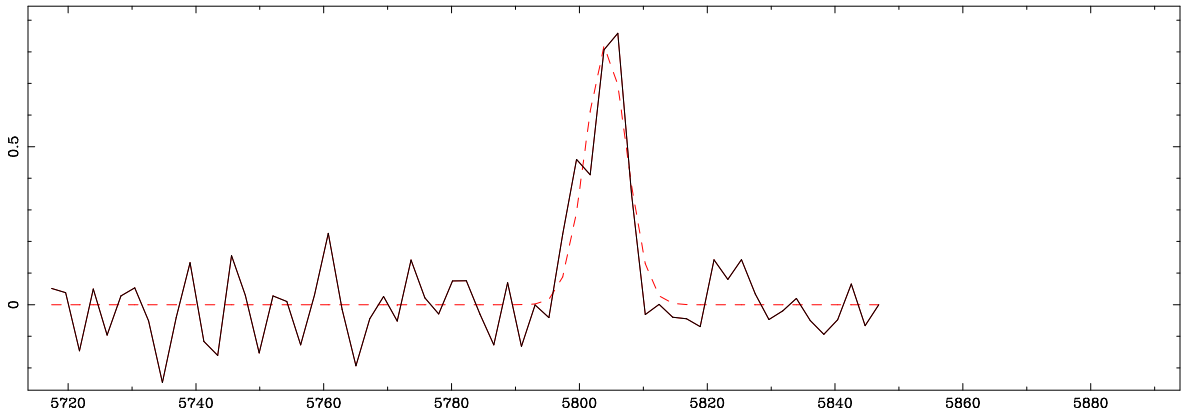
$FWHM_{obs} = 6.90Å$

$\lambda_{obs} = 4779.34Å$

$EW_{obs} > 96.32Å$

$\alpha_{2000} = 189.0731°$

$\delta_{2000} = 62.2194°$



$S/N = 9.81$

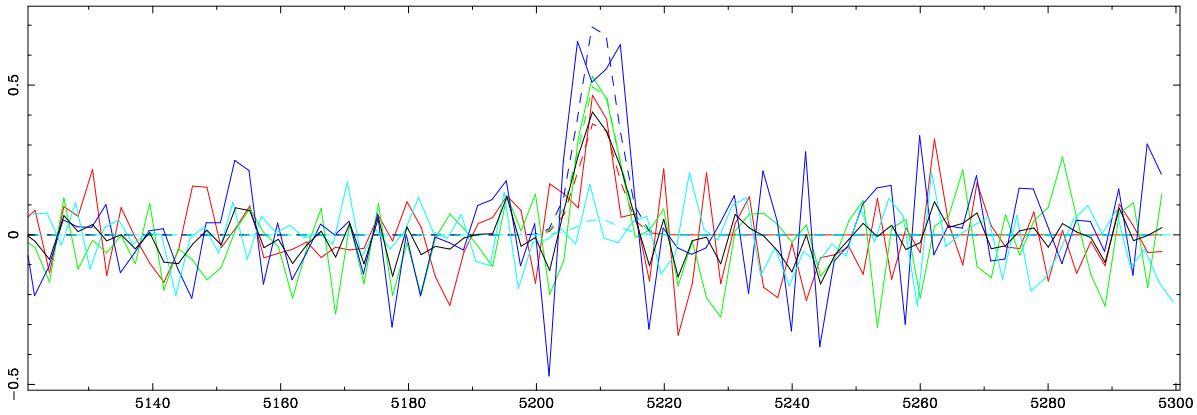
$FWHM_{obs} = 7.53Å$

$\lambda_{obs} = 5804.16Å$

$EW_{obs} = 45.30Å$

$\alpha_{2000} = 189.1109°$

$\delta_{2000} = 62.2144°$



S/N = 7.69

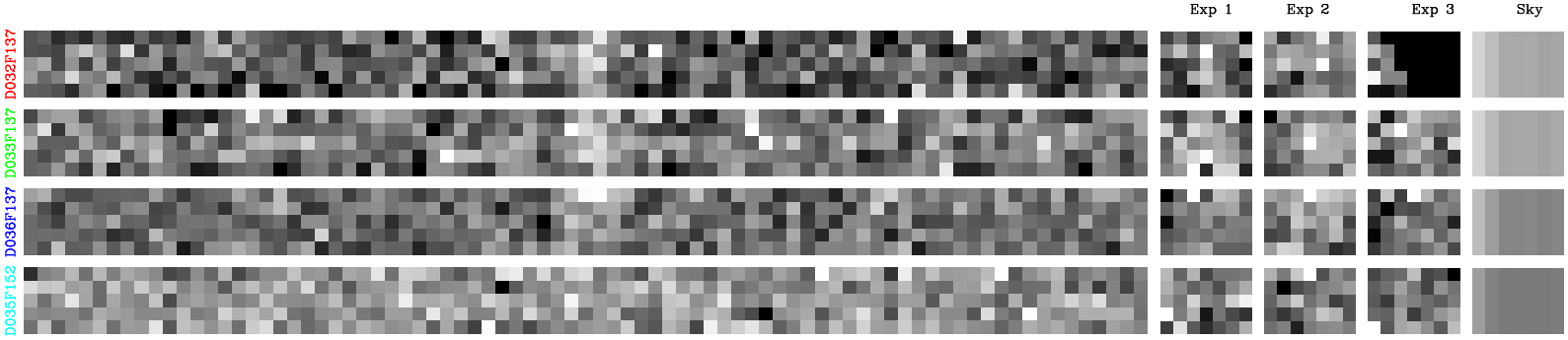
$FWHM_{obs}$ = 6.70Å

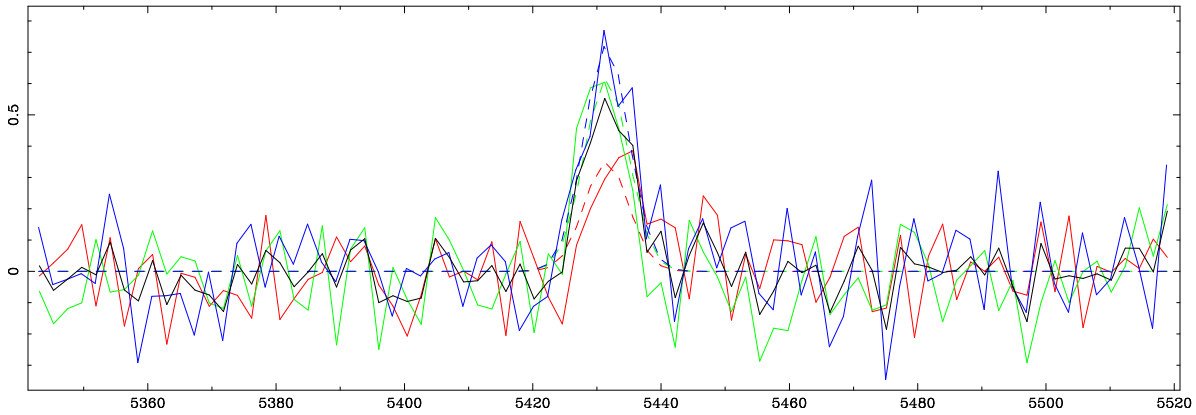
λ_{obs} = 5209.63Å

EW_{obs} > 87.13Å

α_{2000} = 189.0826°

δ_{2000} = 62.2082°





S/N = 10.40

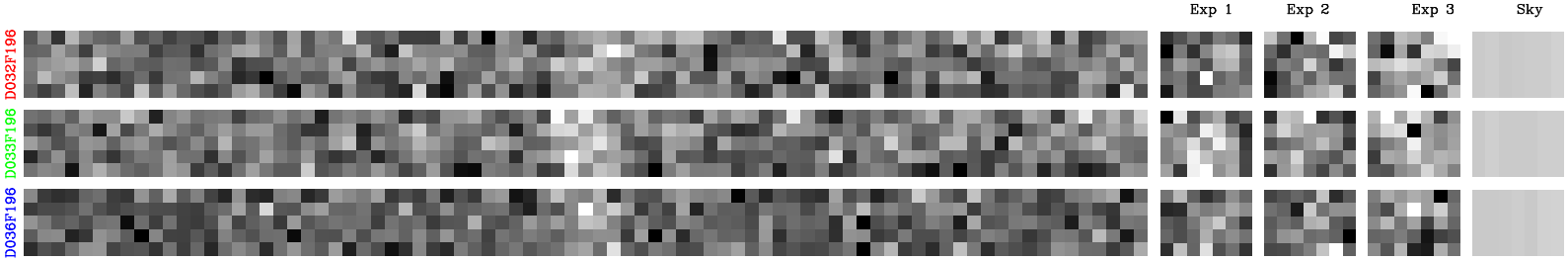
$FWHM_{obs}$ = 8.19Å

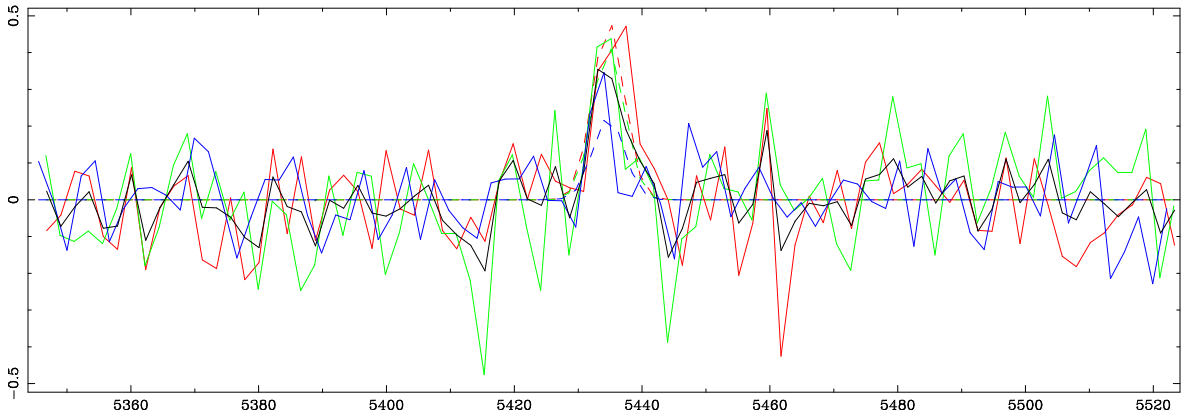
λ_{obs} = 5431.49Å

EW_{obs} = 54.16Å

α_{2000} = 189.0868°

δ_{2000} = 62.2011°





$S/N = 6.96$

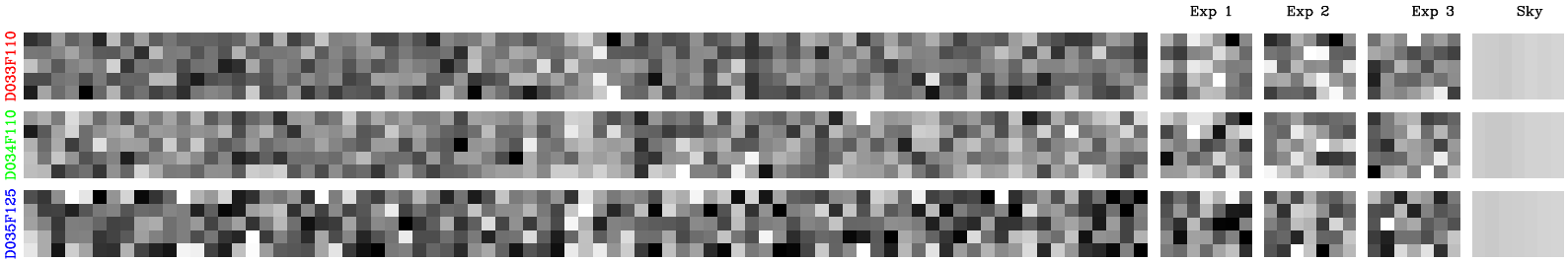
$FWHM_{obs} = 5.82Å$

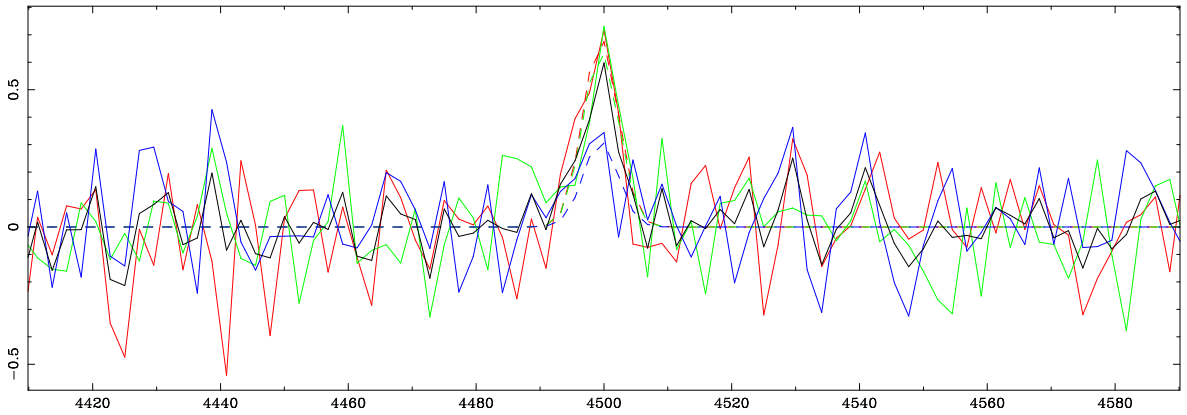
$\lambda_{obs} = 5434.74Å$

$EW_{obs} = 40.54Å$

$\alpha_{2000} = 189.0930°$

$\delta_{2000} = 62.2117°$





S/N = 6.70

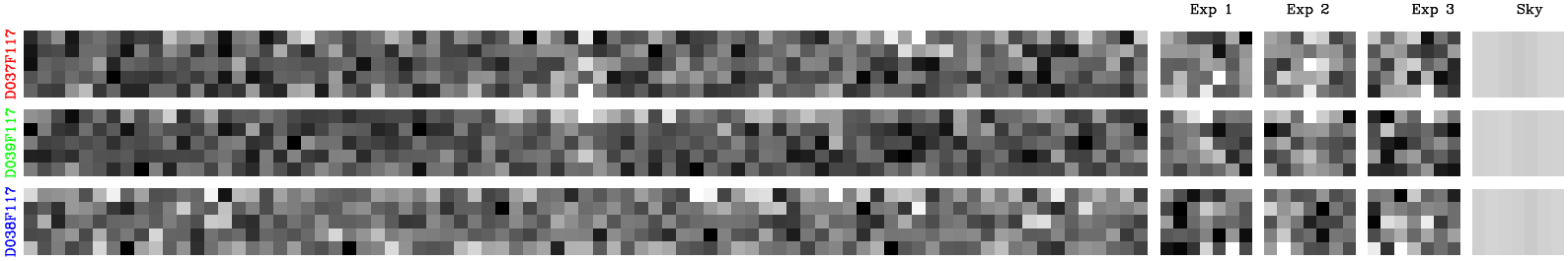
$FWHM_{obs}$ = 6.49Å

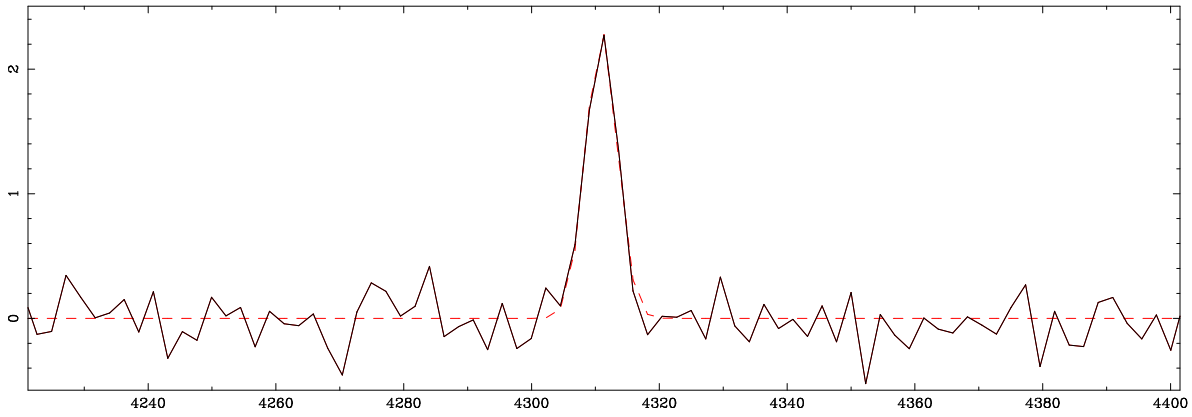
λ_{obs} = 4499.49Å

EW_{obs} = 25.67Å

α_{2000} = 189.0588°

δ_{2000} = 62.2377°





S/N = 12.92

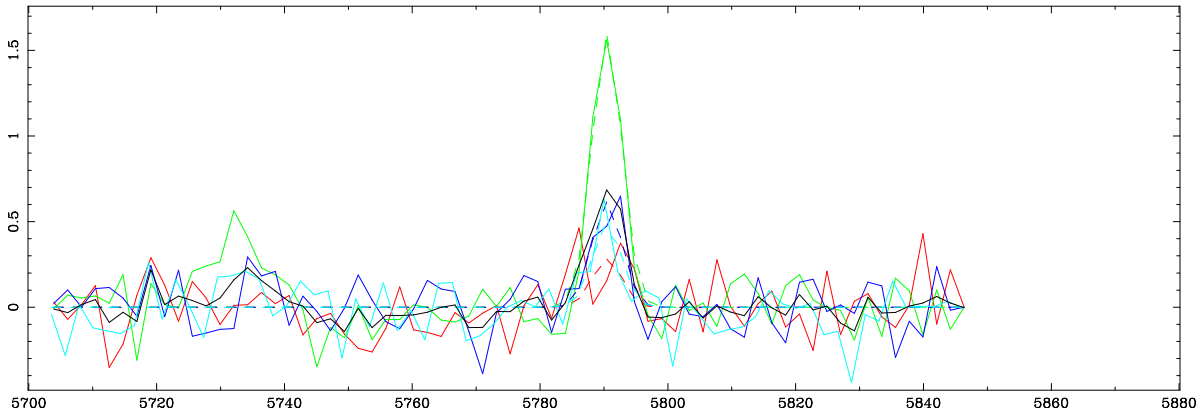
$FWHM_{obs}$ = 5.79Å

λ_{obs} = 4310.96Å

EW_{obs} = 83.12Å

α_{2000} = 189.0724°

δ_{2000} = 62.2382°



S/N = 10.61

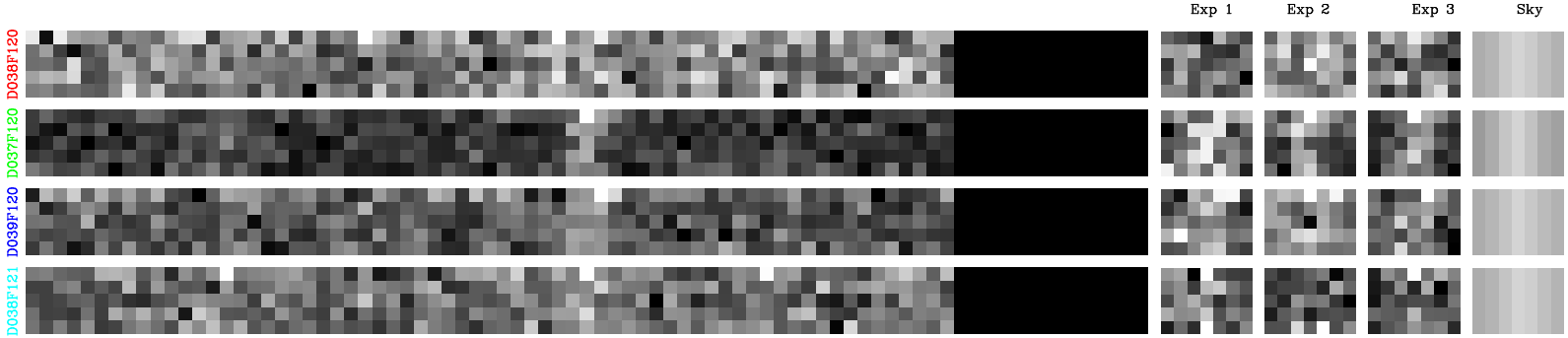
$FWHM_{obs}$ = 5.51Å

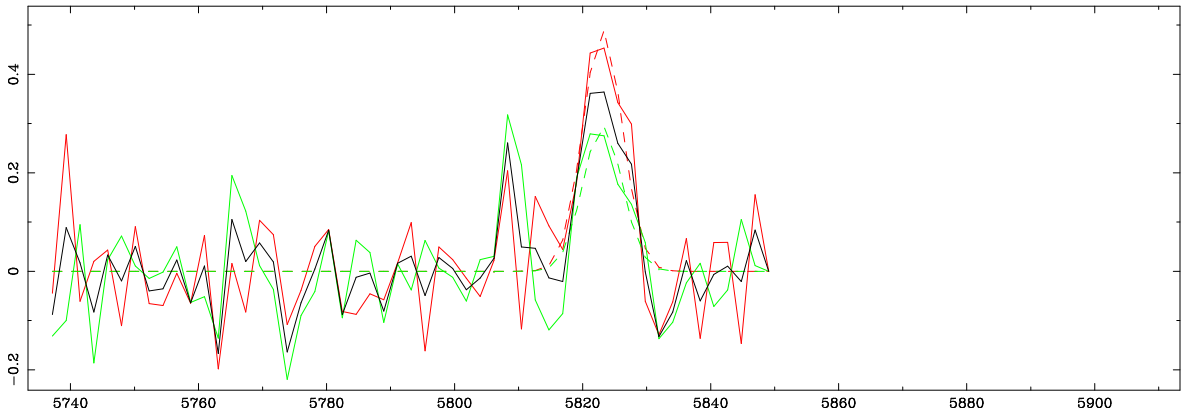
λ_{obs} = 5790.47Å

EW_{obs} = 32.43Å

α_{2000} = 189.0725°

δ_{2000} = 62.2378°





$S/N = 8.62$

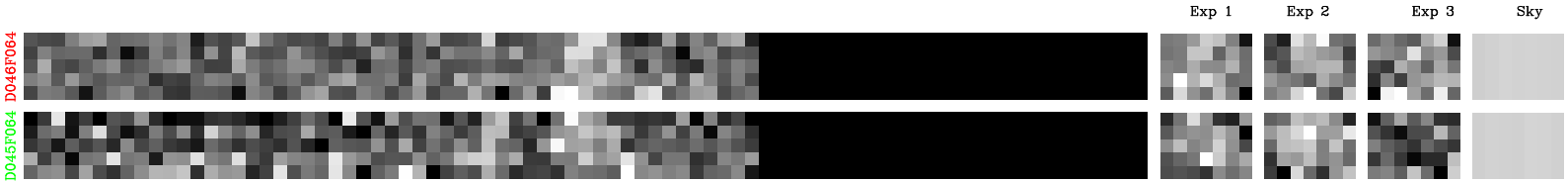
$FWHM_{obs} = 7.24$Å

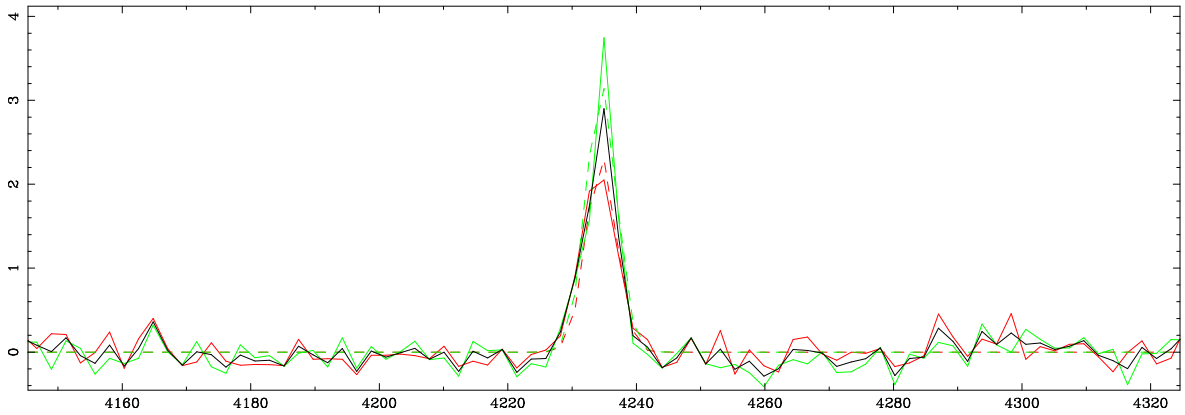
$\lambda_{obs} = 5823.11$Å

$EW_{obs} > 70.71$Å

$\alpha_{2000} = 189.2077°$

$\delta_{2000} = 62.2202°$





S/N = 29.93

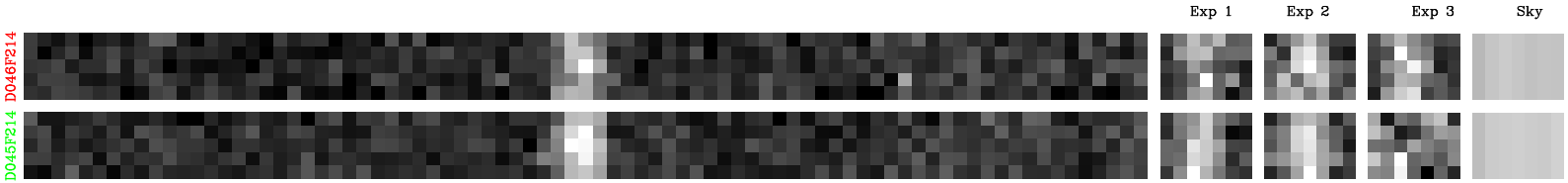
$FWHM_{obs}$ = 5.52Å

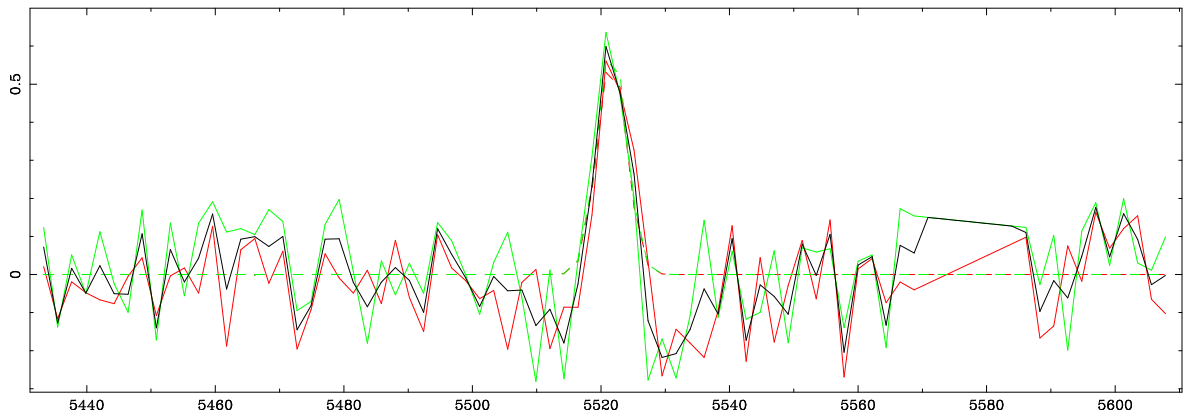
λ_{obs} = 4234.54Å

EW_{obs} = 24.39Å

α_{2000} = 189.2284°

δ_{2000} = 62.2024°





S/N = 9.30

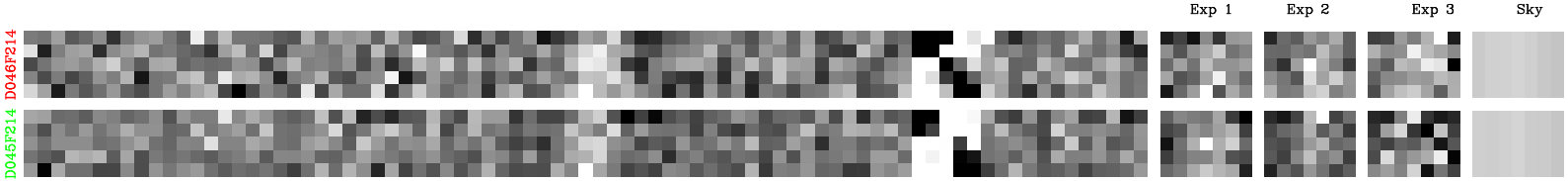
$FWHM_{obs}$ = 5.27Å

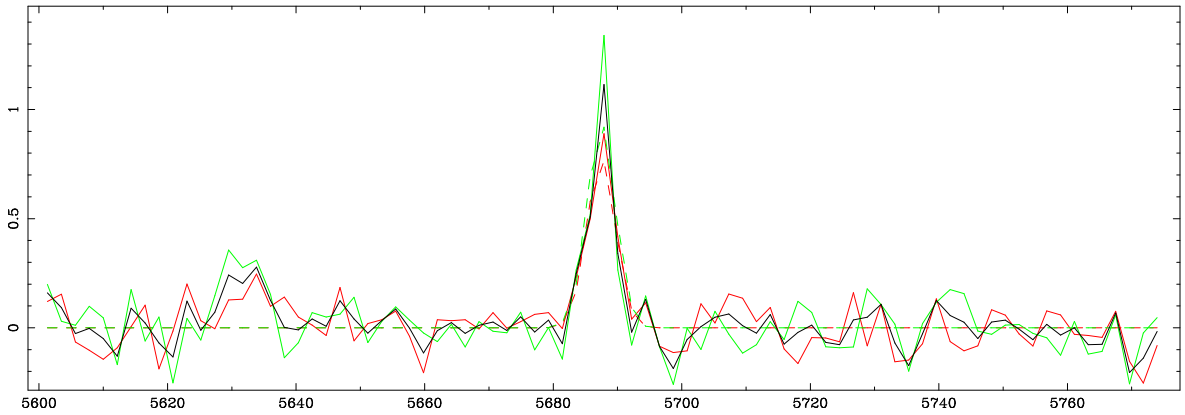
λ_{obs} = 5521.70Å

EW_{obs} = 4.49Å

α_{2000} = 189.2285°

δ_{2000} = 62.2024°





S/N = 12.11

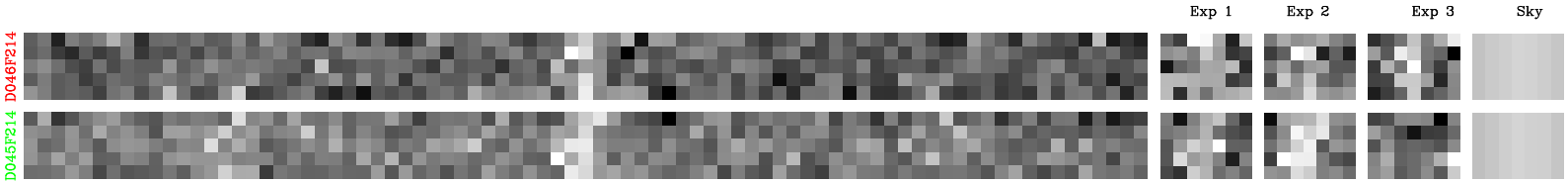
$FWHM_{obs}$ = 5.20Å

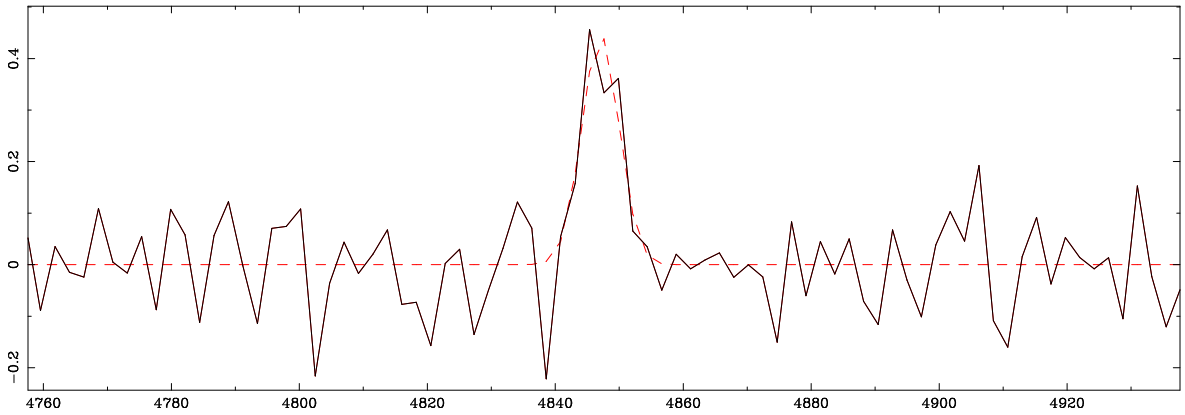
λ_{obs} = 5687.46Å

EW_{obs} = 6.67Å

α_{2000} = 189.2284°

δ_{2000} = 62.2024°





S/N = 6.20

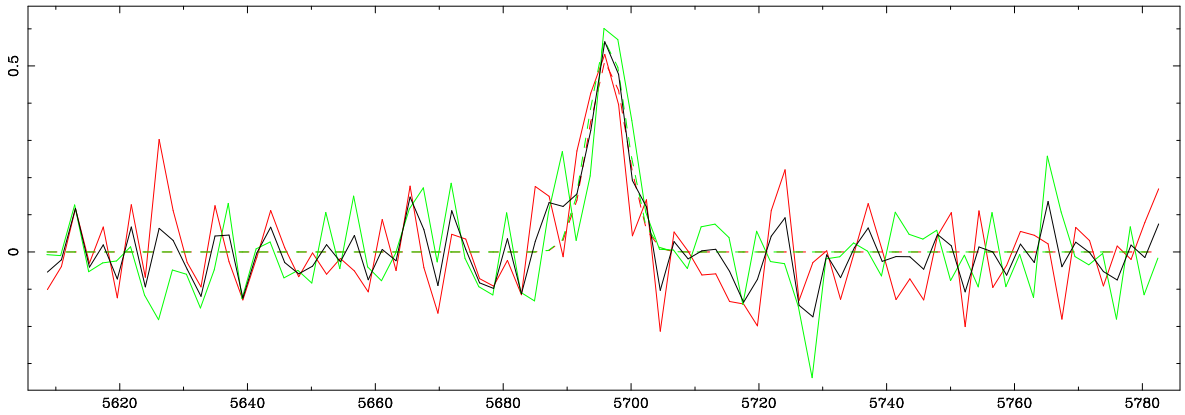
$FWHM_{obs}$ = 6.84Å

λ_{obs} = 4847.07Å

EW_{obs} = 26.76Å

α_{2000} = 189.1843°

δ_{2000} = 62.2188°



S/N = 9.85

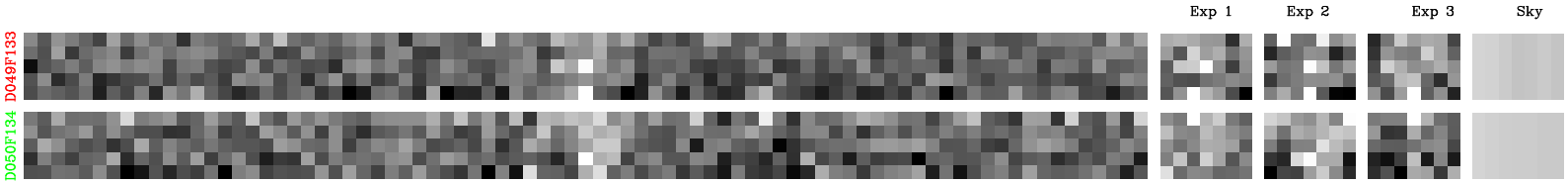
$FWHM_{obs}$ = 6.93Å

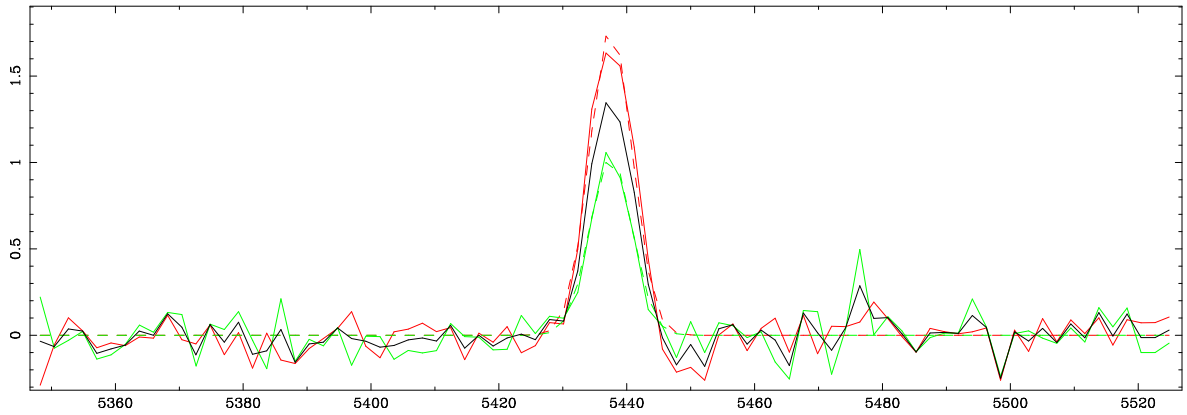
λ_{obs} = 5696.31Å

EW_{obs} = 40.88Å

α_{2000} = 189.1319°

δ_{2000} = 62.2112°





S/N = 24.57

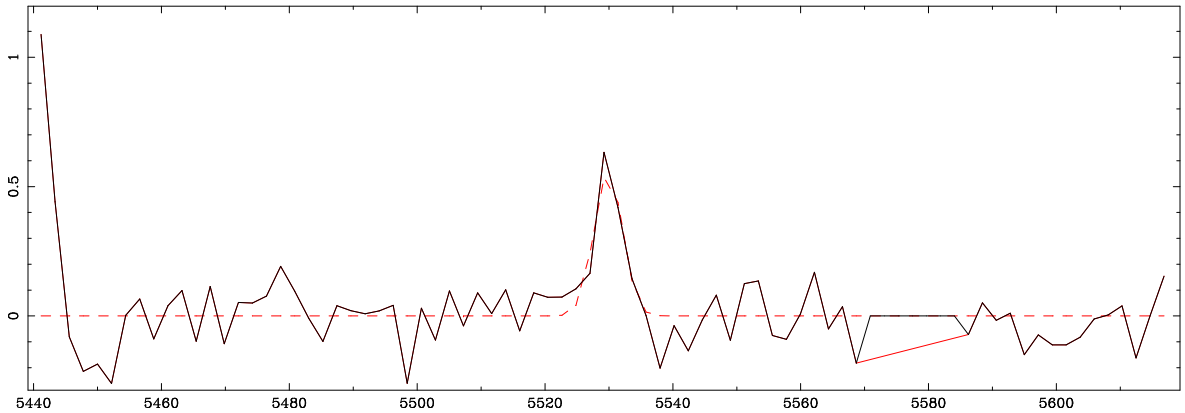
$FWHM_{obs}$ = 7.77Å

λ_{obs} = 5437.52Å

EW_{obs} = 45.62Å

α_{2000} = 189.1559°

δ_{2000} = 62.2113°



S/N = 6.42

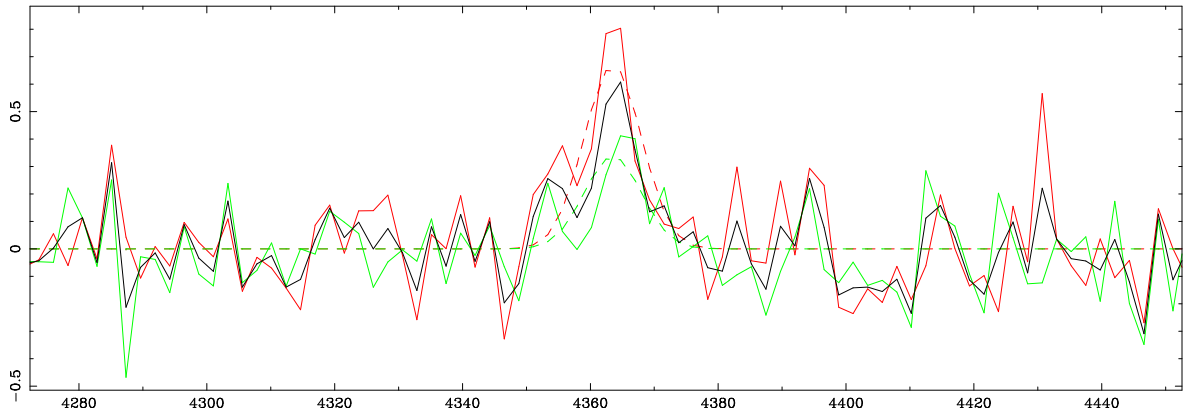
$FWHM_{obs}$ = 5.20Å

λ_{obs} = 5529.89Å

EW_{obs} = 7.81Å

α_{2000} = 189.1565°

δ_{2000} = 62.2113°



S/N = 7.93

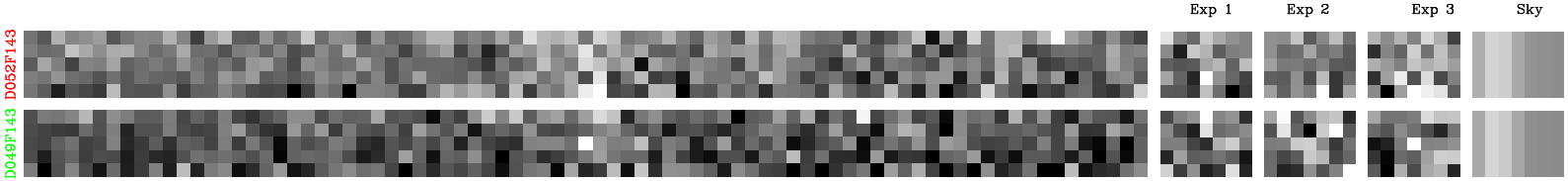
$FWHM_{obs}$ = 10.59Å

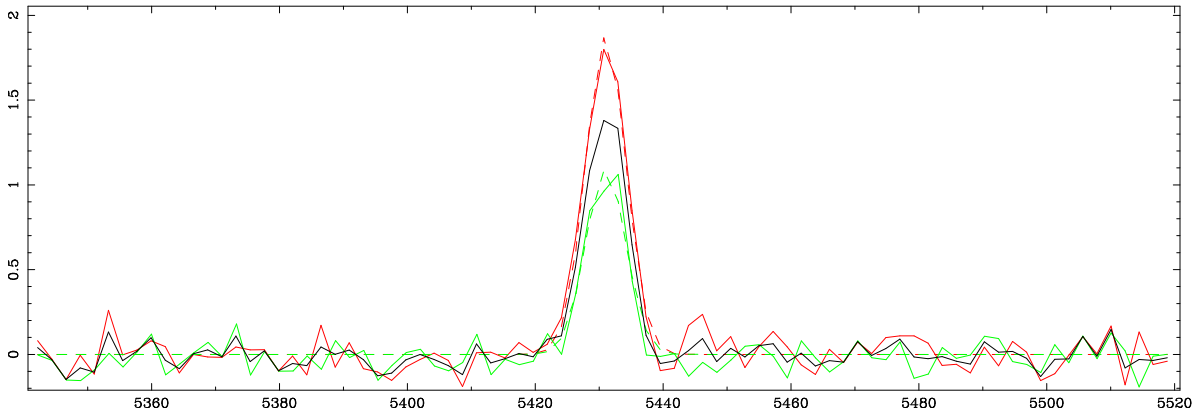
λ_{obs} = 4363.52Å

EW_{obs} > 104.81Å

α_{2000} = 189.1740°

δ_{2000} = 62.2109°





S/N = 26.94

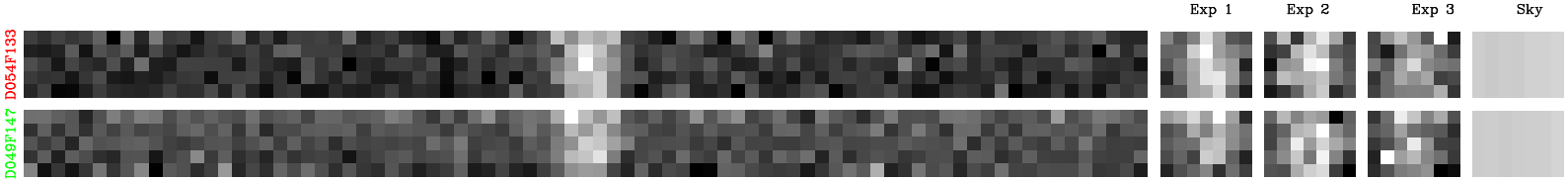
$FWHM_{obs}$ = 7.38Å

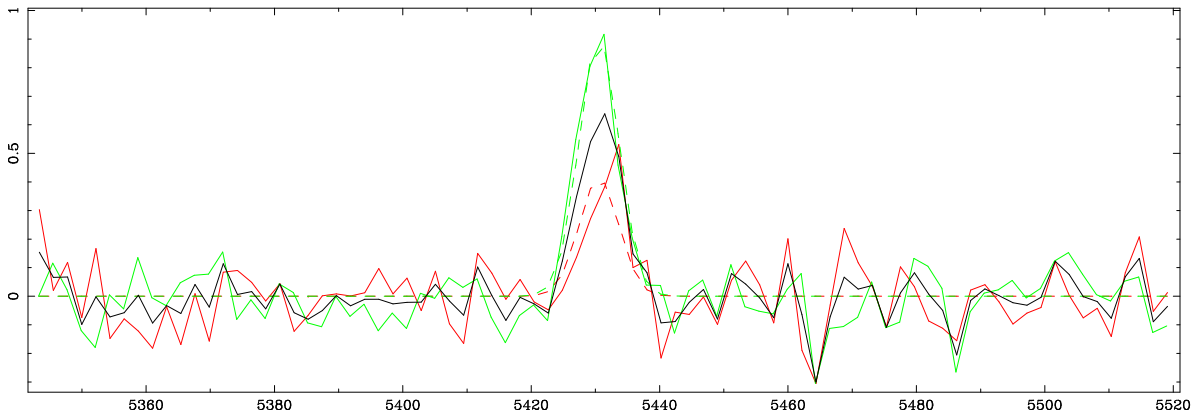
λ_{obs} = 5431.03Å

EW_{obs} = 102.30Å

α_{2000} = 189.1290°

δ_{2000} = 62.2101°





S/N = 10.39

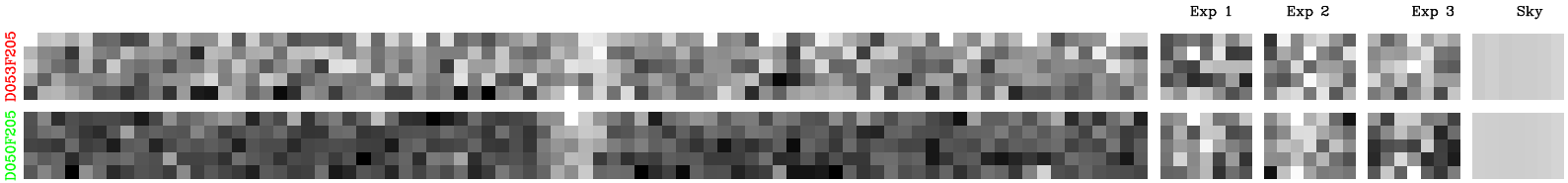
$FWHM_{obs}$ = 7.29Å

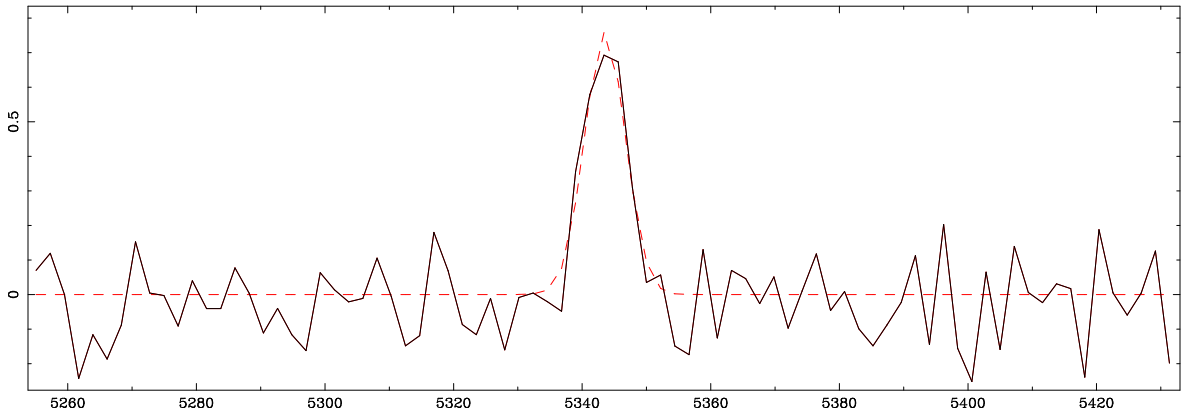
λ_{obs} = 5430.55Å

EW_{obs} = 31.66Å

α_{2000} = 189.1264°

δ_{2000} = 62.2024°





S/N = 8.17

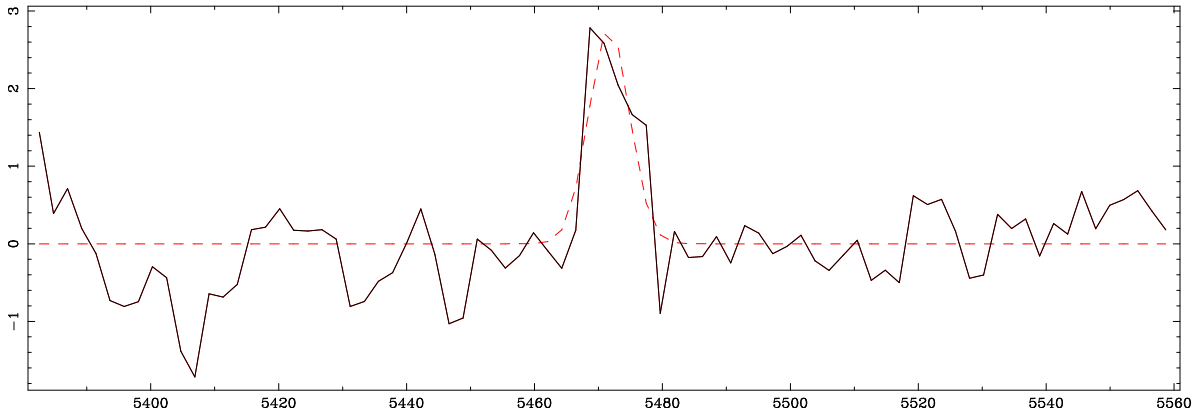
$FWHM_{obs}$ = 7.42Å

λ_{obs} = 5343.55Å

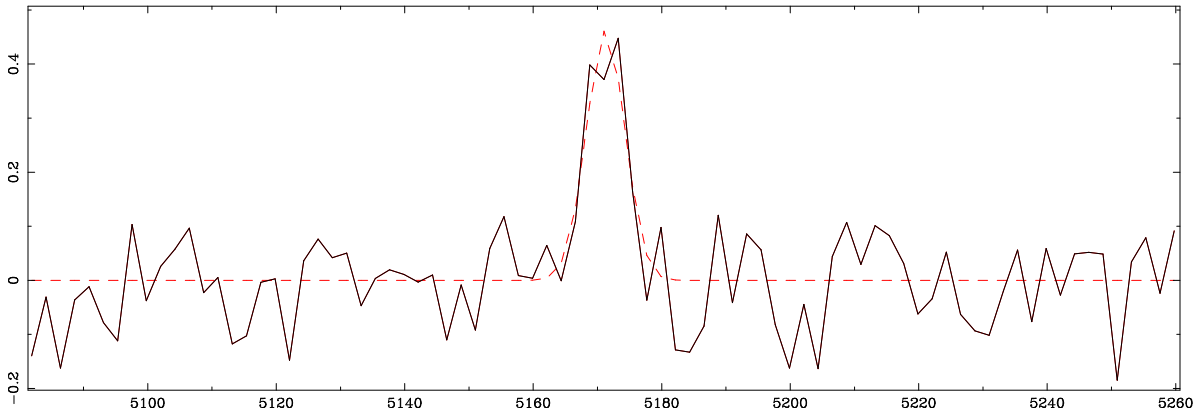
EW_{obs} = 29.55Å

α_{2000} = 189.1740°

δ_{2000} = 62.2014°



S/N = 13.50
$FWHM_{obs}$ = 7.45Å
λ_{obs} = 5471.67Å
EW_{obs} = 2.33Å
α_{2000} = 189.2874°
δ_{2000} = 62.2098°



S/N = 6.32

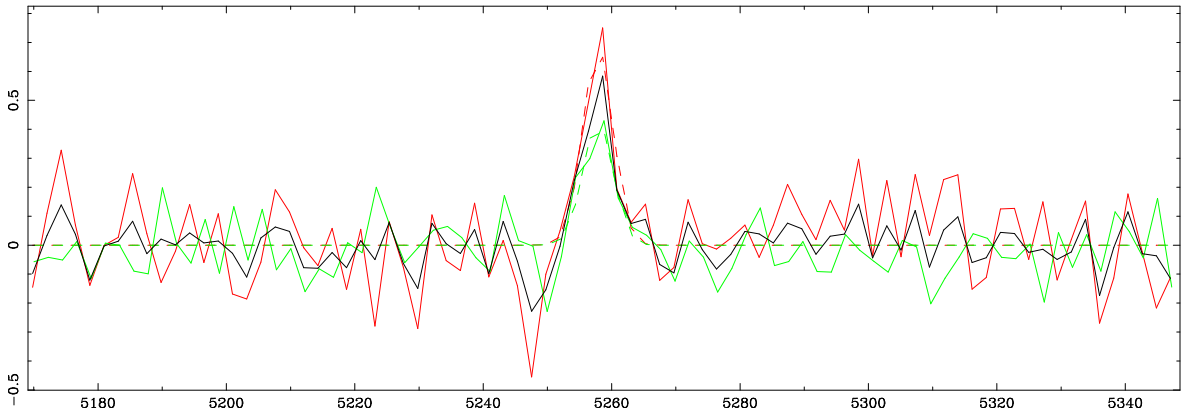
$FWHM_{obs}$ = 7.02Å

λ_{obs} = 5171.28Å

EW_{obs} = 30.03Å

α_{2000} = 189.2715°

δ_{2000} = 62.2030°



$S/N = 7.09$

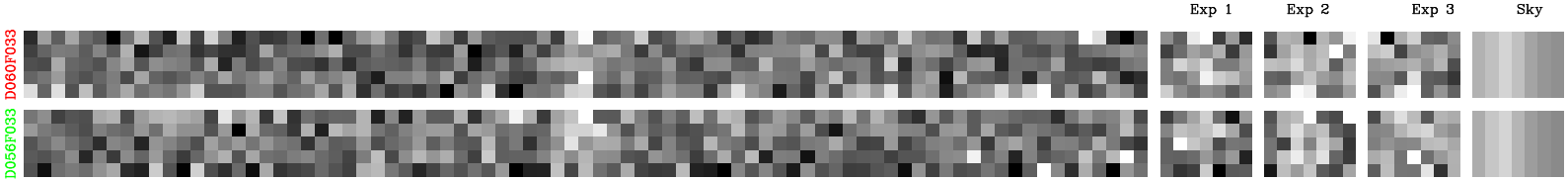
$FWHM_{obs} = 5.52Å$

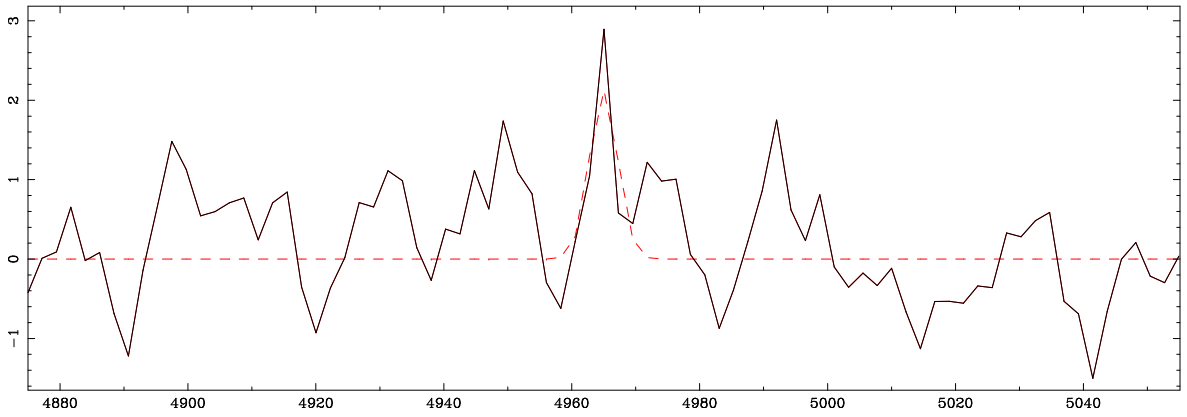
$\lambda_{obs} = 5257.87Å$

$EW_{obs} = 25.62Å$

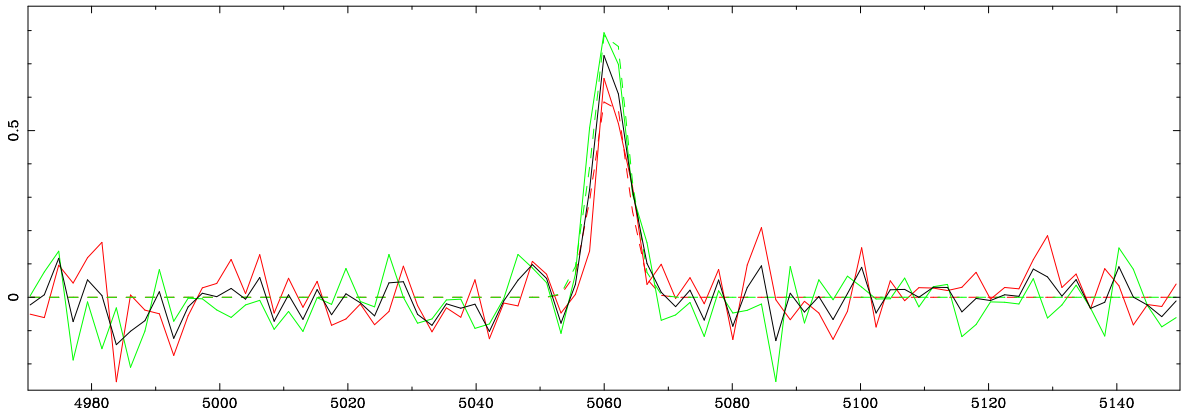
$\alpha_{2000} = 189.2574°$

$\delta_{2000} = 62.2230°$





S/N = 11.39
$FWHM_{obs}$ = 5.20Å
λ_{obs} = 4964.98Å
EW_{obs} = 1.42Å
α_{2000} = 189.2874°
δ_{2000} = 62.2098°



S/N = 14.01

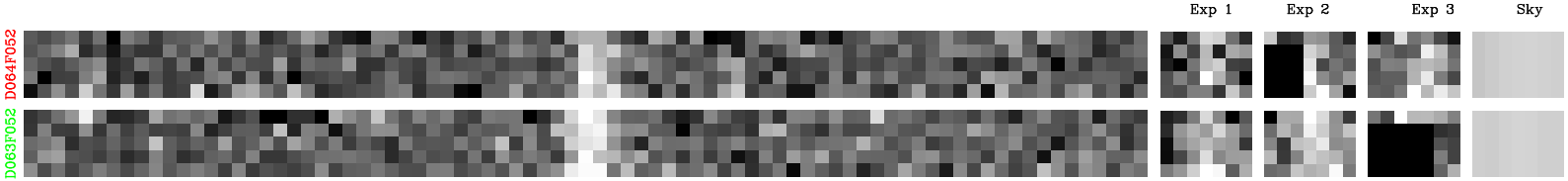
$FWHM_{obs}$ = 6.11Å

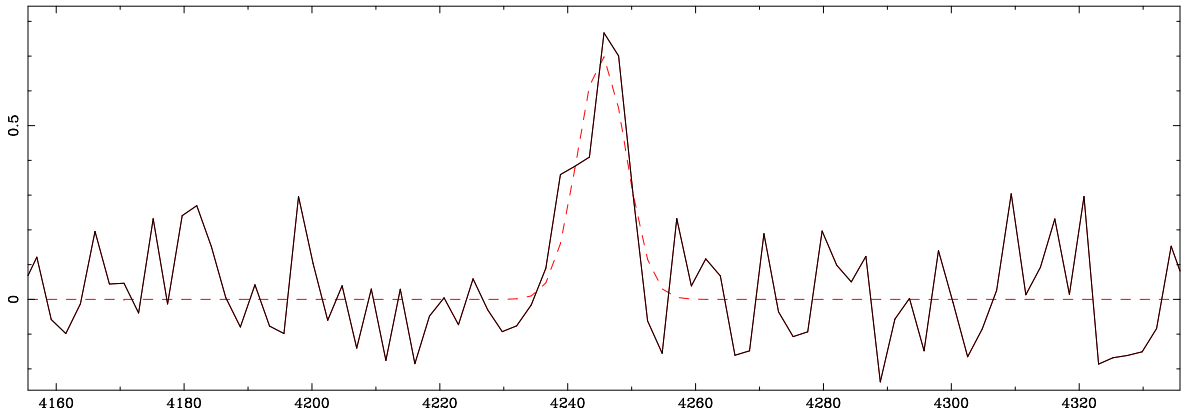
λ_{obs} = 5060.96Å

EW_{obs} = 68.68Å

α_{2000} = 189.2188°

δ_{2000} = 62.2493°





S/N = 7.18

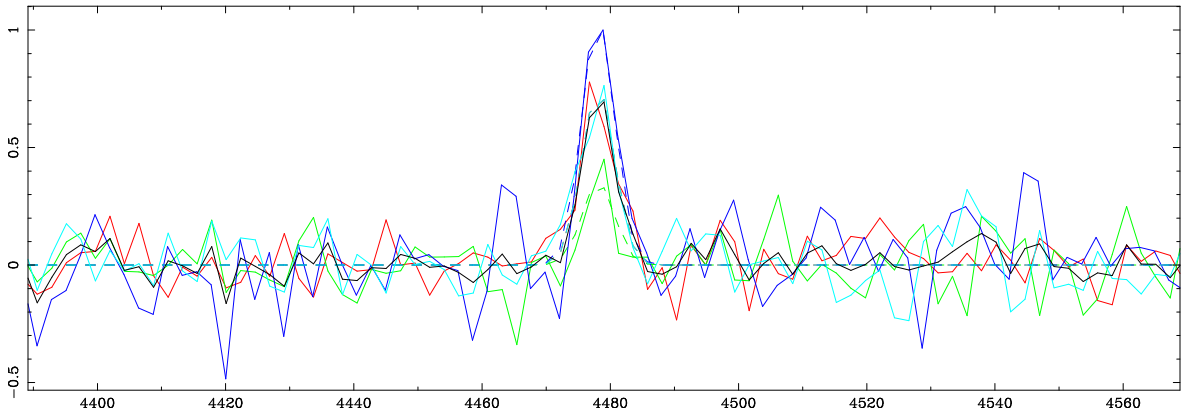
$FWHM_{obs}$ = 8.88Å

λ_{obs} = 4245.34Å

EW_{obs} = 44.57Å

α_{2000} = 189.1982°

δ_{2000} = 62.2387°



S/N = 14.33

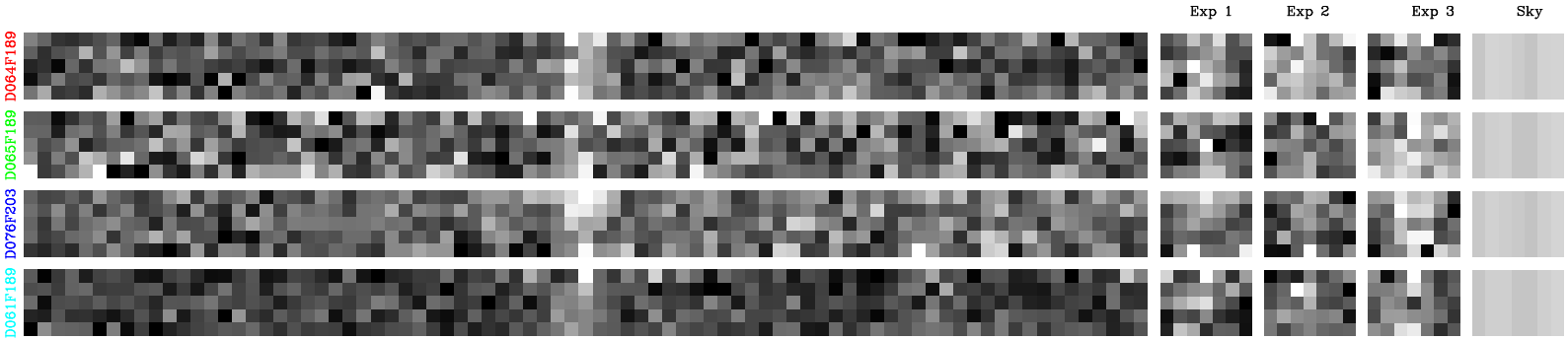
$FWHM_{obs}$ = 6.07Å

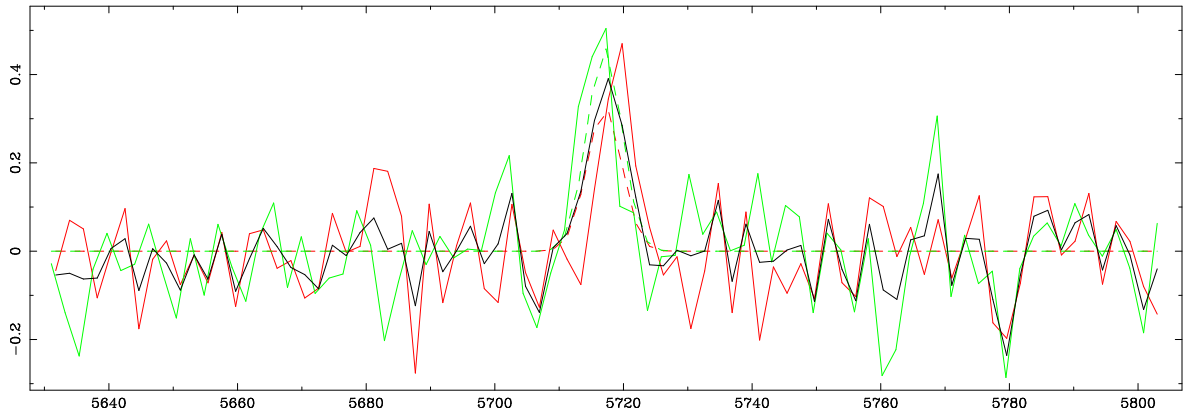
λ_{obs} = 4478.13Å

EW_{obs} = 21.81Å

α_{2000} = 189.1823°

δ_{2000} = 62.2323°





S/N = 7.21

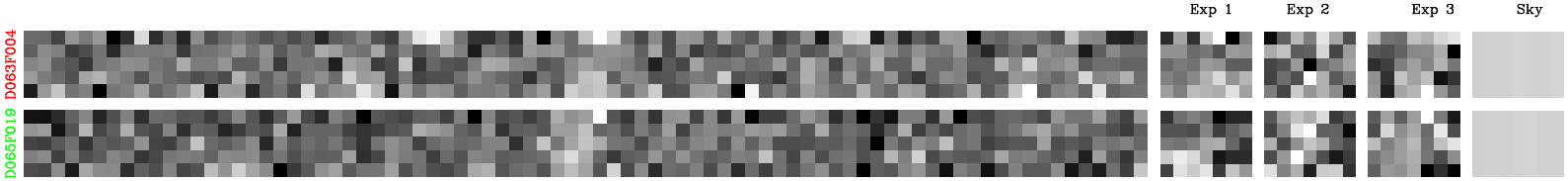
$FWHM_{obs}$ = 6.35Å

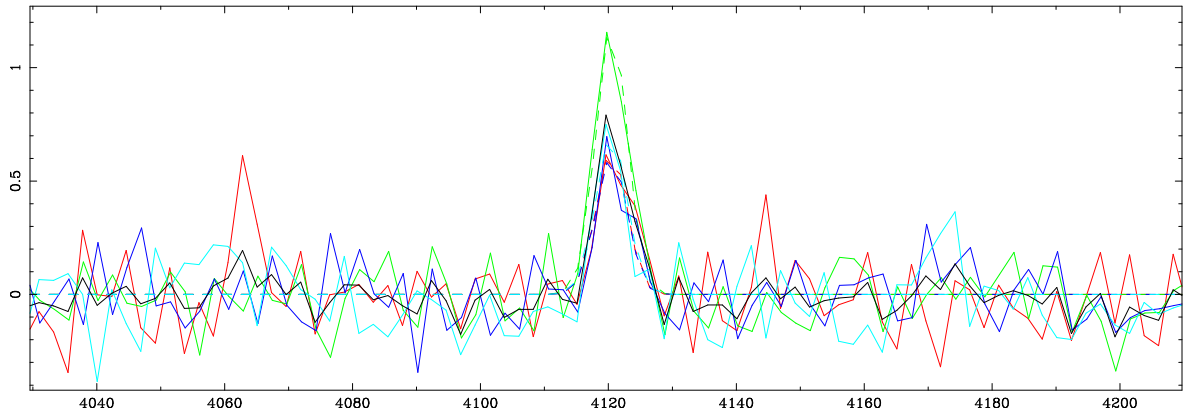
λ_{obs} = 5717.05Å

EW_{obs} = 65.93Å

α_{2000} = 189.1997°

δ_{2000} = 62.2540°





S/N = 12.95

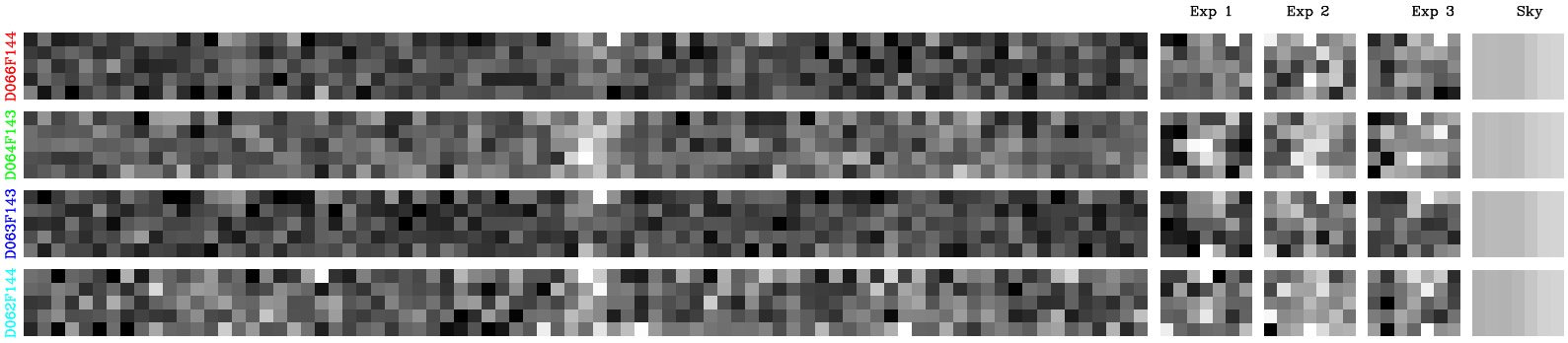
$FWHM_{obs}$ = 5.75Å

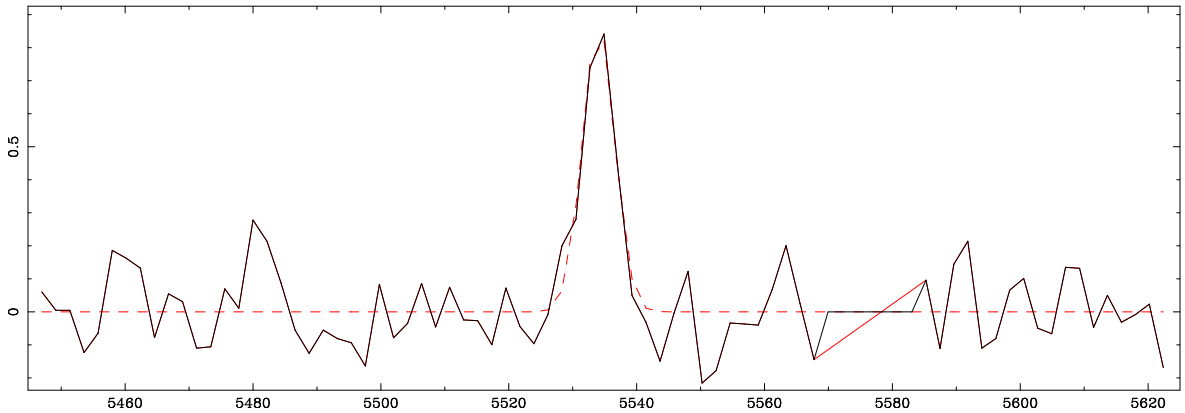
λ_{obs} = 4120.47Å

EW_{obs} = 36.22Å

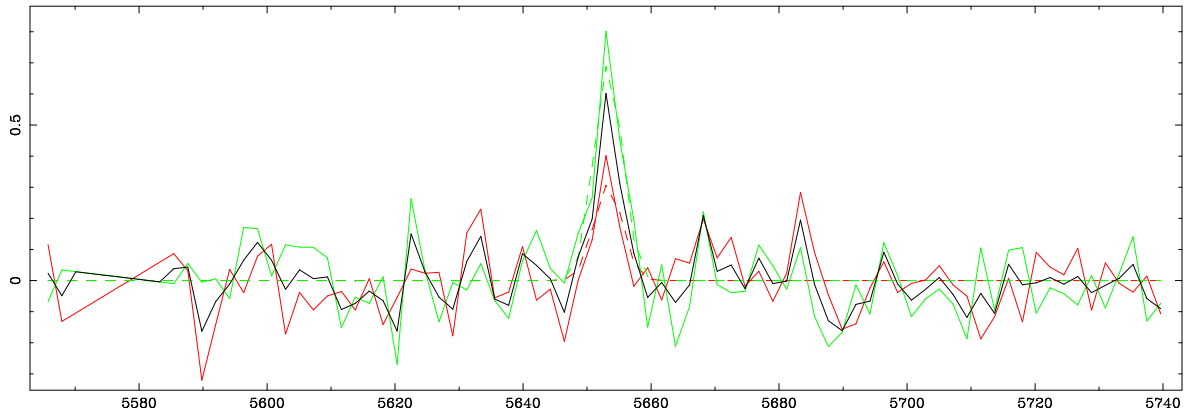
α_{2000} = 189.2367°

δ_{2000} = 62.2389°





S/N = 11.46
$FWHM_{obs}$ = 5.91Å
λ_{obs} = 5534.05Å
EW_{obs} = 15.91Å
α_{2000} = 189.2361°
δ_{2000} = 62.2391°



S/N = 7.22

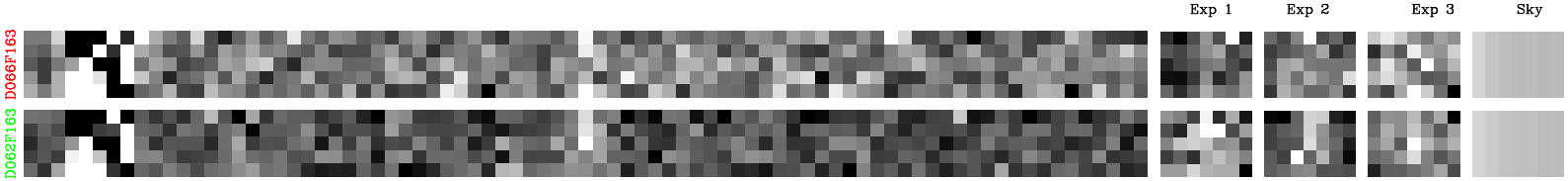
$FWHM_{obs}$ = 5.20Å

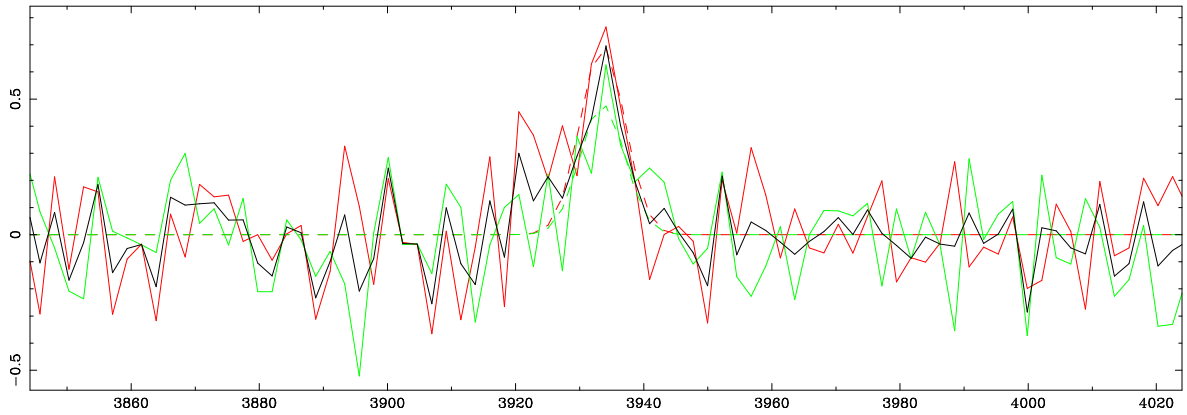
λ_{obs} = 5653.28Å

EW_{obs} > 66.35Å

α_{2000} = 189.1948°

δ_{2000} = 62.2357°





$S/N = 7.30$

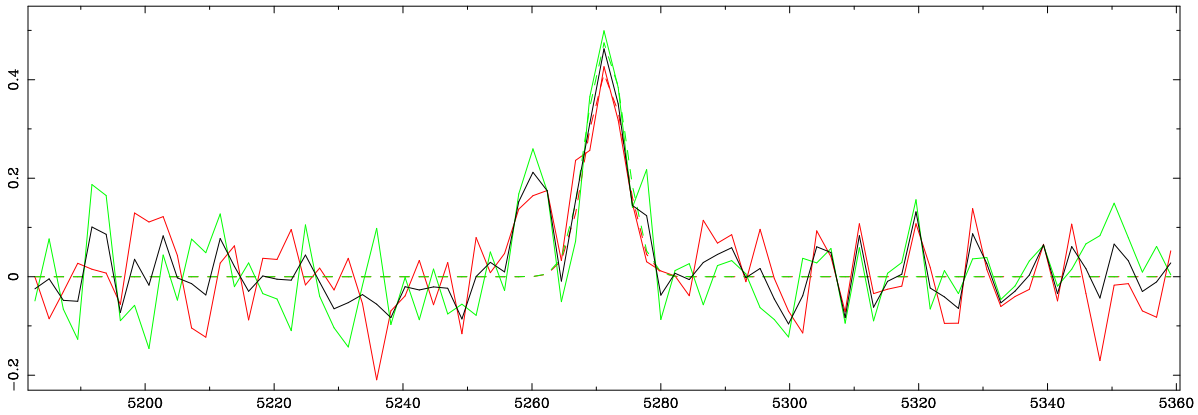
$FWHM_{obs} = 8.18$Å

$\lambda_{obs} = 3933.56$Å

$EW_{obs} > 73.95$Å

$\alpha_{2000} = 189.2098°$

$\delta_{2000} = 62.2339°$



S/N = 9.95

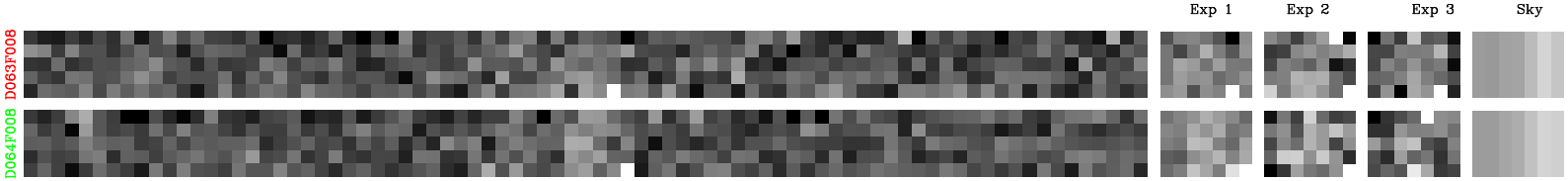
$FWHM_{obs}$ = 7.15Å

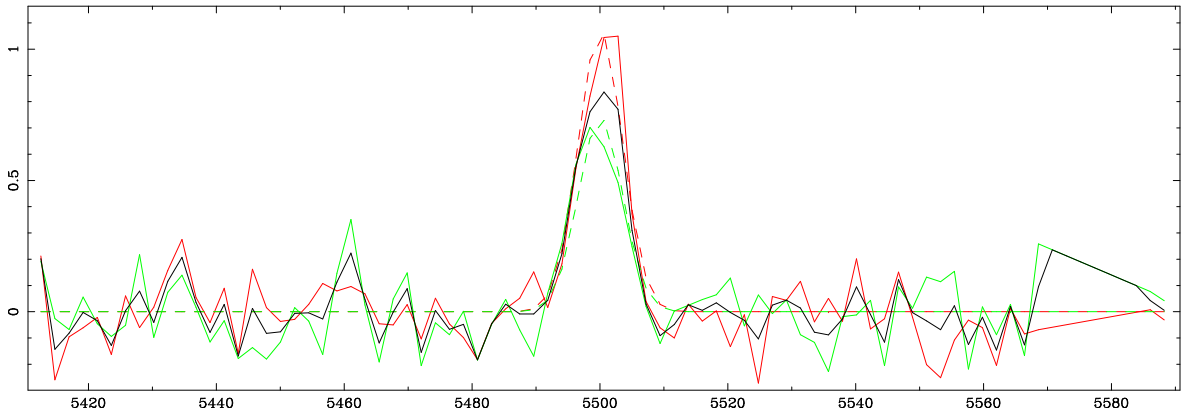
λ_{obs} = 5271.42Å

EW_{obs} > 100.86Å

α_{2000} = 189.2169°

δ_{2000} = 62.2546°





S/N = 15.72

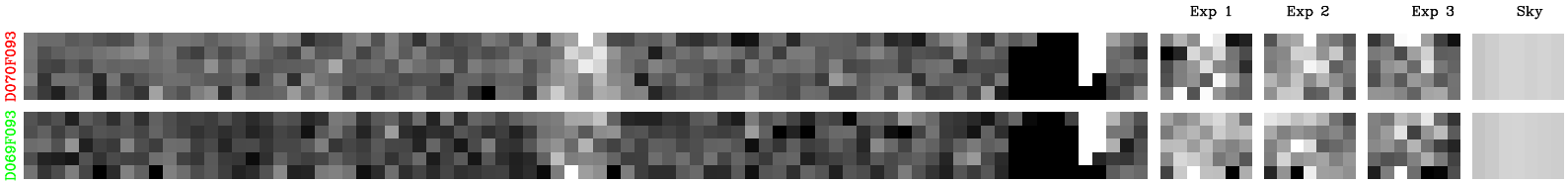
$FWHM_{obs}$ = 8.17Å

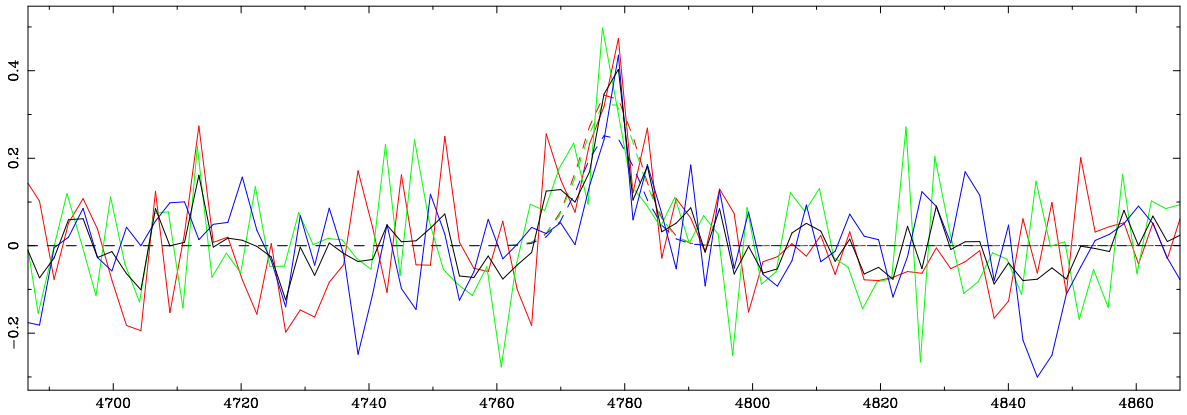
λ_{obs} = 5500.08Å

EW_{obs} = 100.97Å

α_{2000} = 189.2069°

δ_{2000} = 62.1870°





$S/N = 8.29$

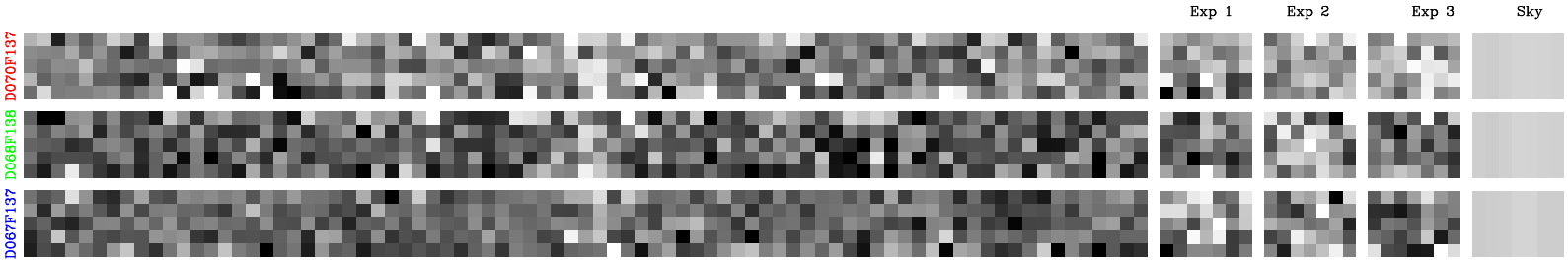
$FWHM_{obs} = 10.40$Å

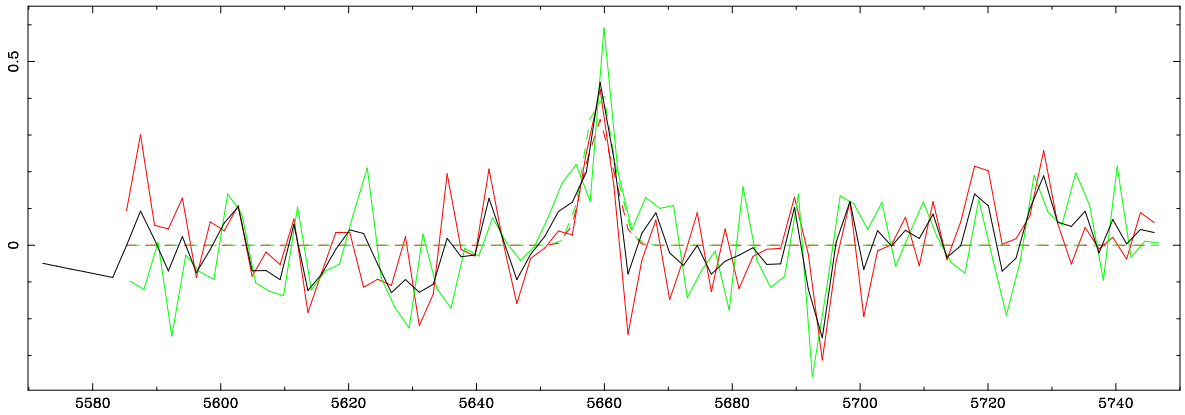
$\lambda_{obs} = 4777.64$Å

$EW_{obs} > 104.57$Å

$\alpha_{2000} = 189.2096°$

$\delta_{2000} = 62.1821°$





S/N = 5.78

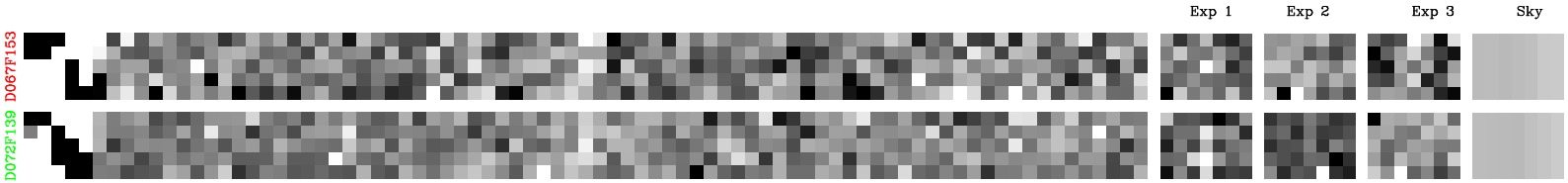
$FWHM_{obs}$ = 5.21Å

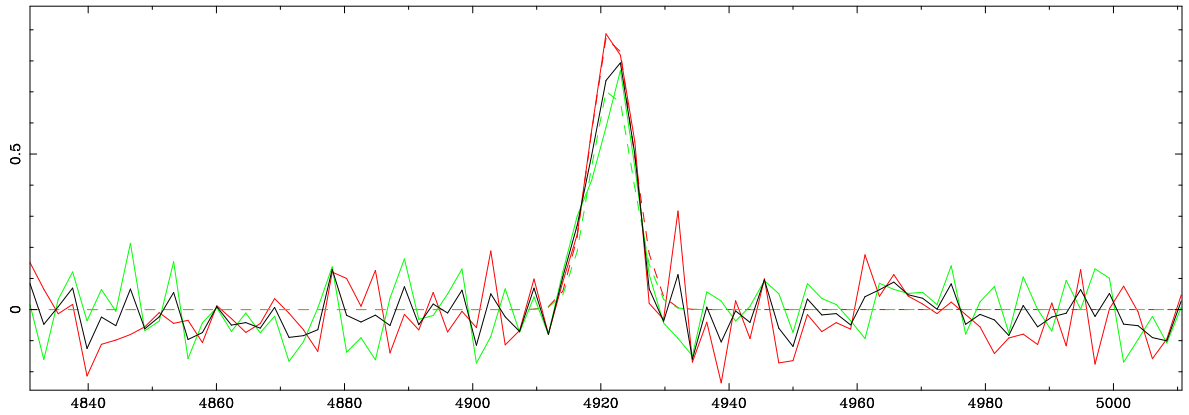
λ_{obs} = 5659.23Å

EW_{obs} = 42.73Å

α_{2000} = 189.2153°

δ_{2000} = 62.1811°





S/N = 14.05

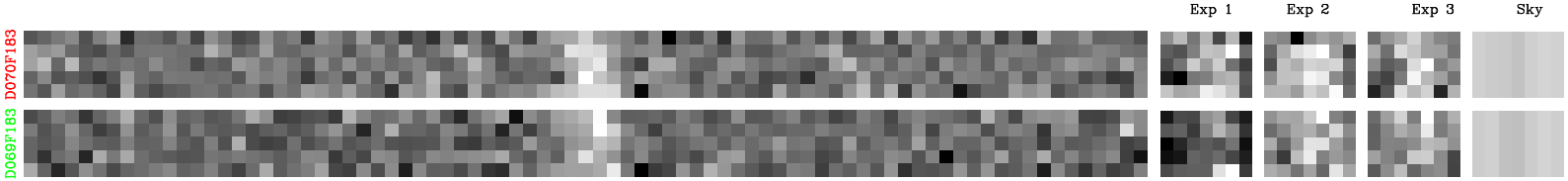
$FWHM_{obs}$ = 7.67Å

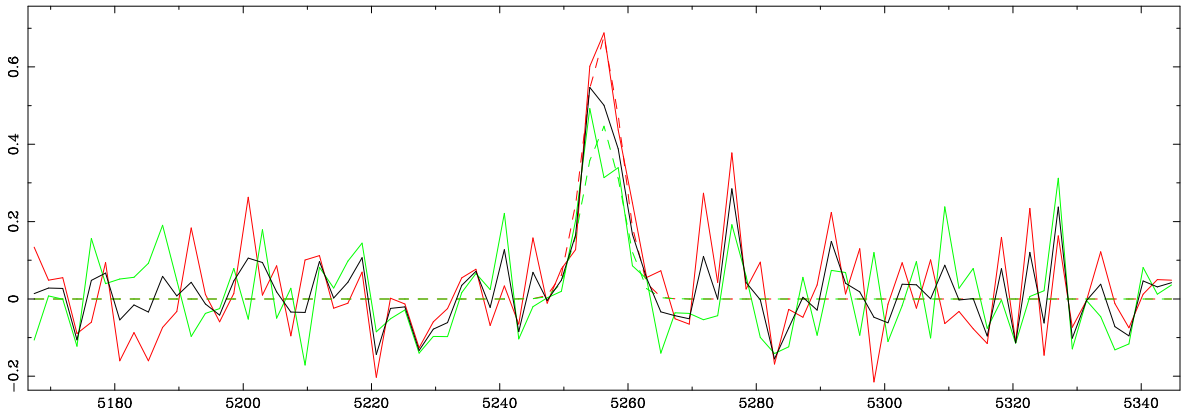
λ_{obs} = 4921.68Å

EW_{obs} = 72.60Å

α_{2000} = 189.2195°

δ_{2000} = 62.1765°





S/N = 9.42

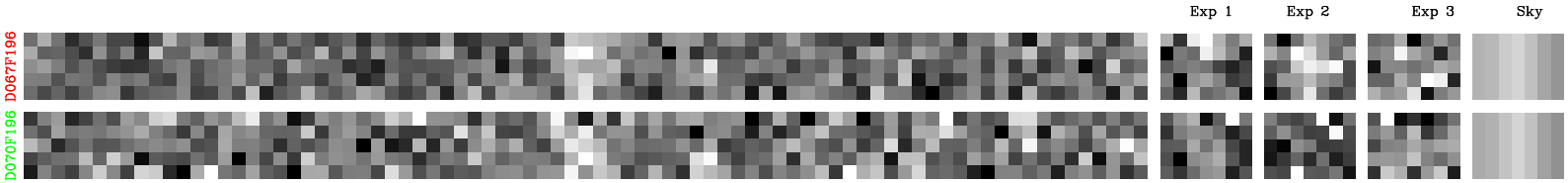
$FWHM_{obs}$ = 6.85Å

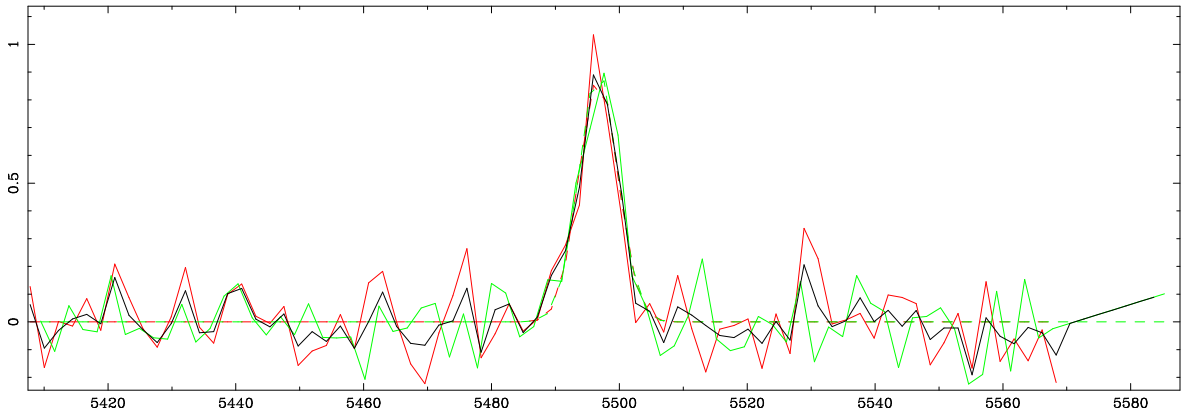
λ_{obs} = 5255.99Å

EW_{obs} = 17.54Å

α_{2000} = 189.2130°

δ_{2000} = 62.1754°





S/N = 13.25

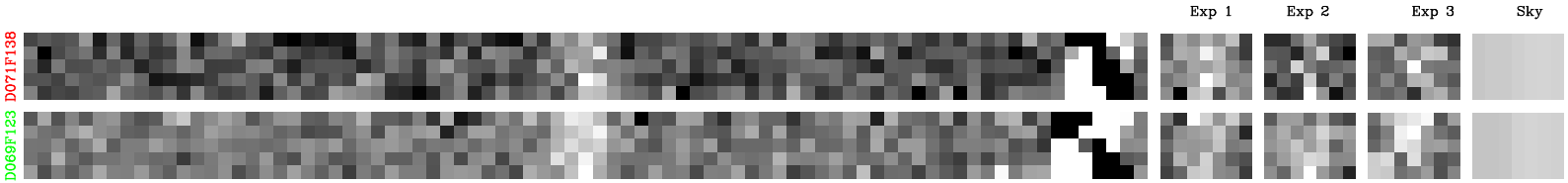
$FWHM_{obs}$ = 7.16Å

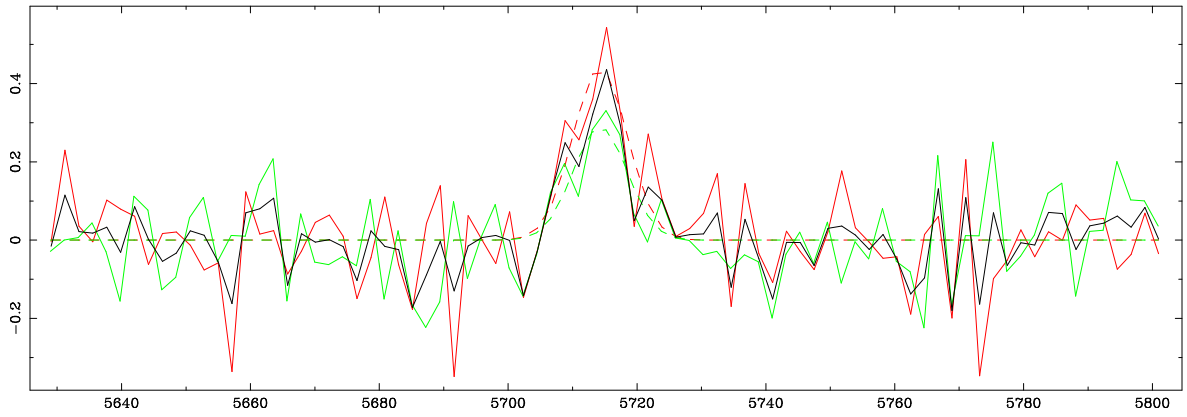
λ_{obs} = 5496.73Å

EW_{obs} = 80.60Å

α_{2000} = 189.2111°

δ_{2000} = 62.1829°





S/N = 8.05

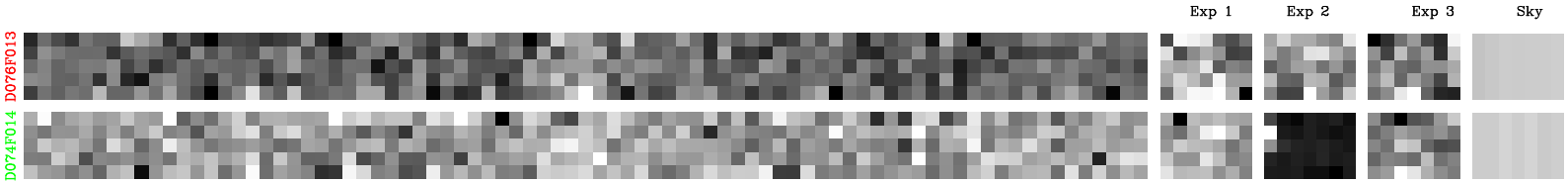
$FWHM_{obs}$ = 9.95Å

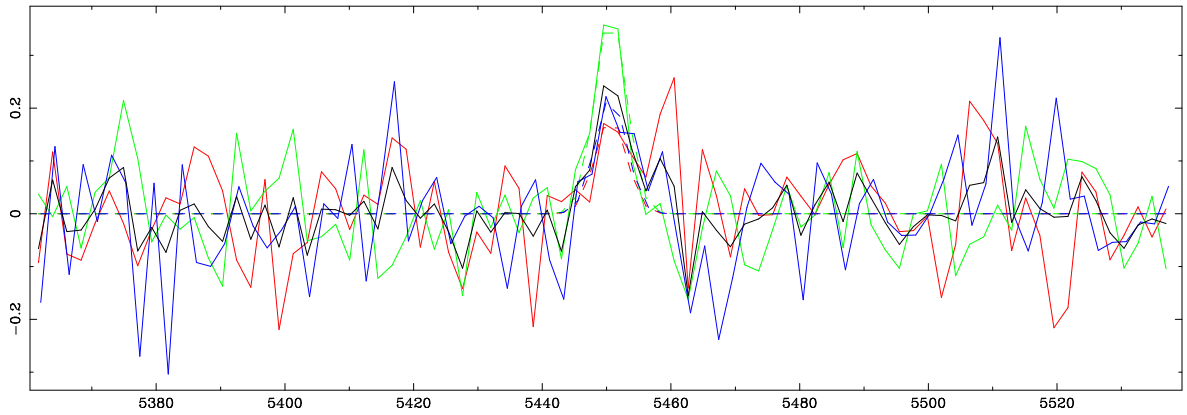
λ_{obs} = 5714.28Å

EW_{obs} > 105.47Å

α_{2000} = 189.1765°

δ_{2000} = 62.2549°



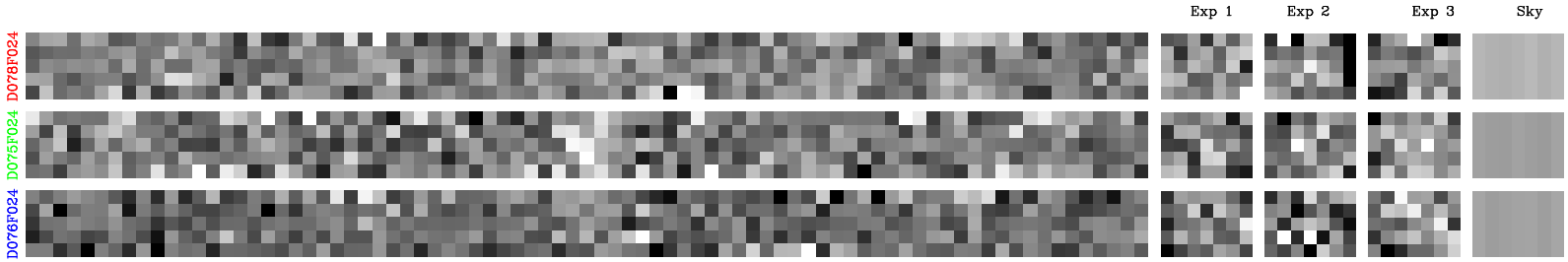


$S/N = 6.17$

$FWHM_{obs} = 5.76$Å

$\lambda_{obs} = 5450.64$Å

$EW_{obs} > 54.91$Å

$\alpha_{2000} = 189.1600°$

$\delta_{2000} = 62.2529°$