1,2\_shiftS

1C 
$$^2$$
S  $^3$ R  $^1$   $^2$ S  $^2$ S  $^3$ R  $^1$ C

1,4\_Cyclic\_birad\_scission

2R  $^1$ R  $^3$ R  $^3$ R  $^2$ R  $^3$ R  $^$ 

intra\_substitutionCS\_cyclicization 
$$^3$$
R  $^{\circ}$ C  $^{\circ}$ C  $^{\circ}$ $^{\circ$ 

Singlet\_Carbene\_Disproportionation 
$$\bigcirc ^1C$$
  $\bigcirc ^2C$   $\longrightarrow ^3H$   $\longrightarrow ^3H$   $\longrightarrow ^3H$   $\bigcirc ^1C$   $\bigcirc ^2C$ 

Intra\_5\_membered\_conjugated\_C=C\_C=C\_addition

$$^{1}C = ^{5}C = ^{4}C - ^{3}C = ^{2}C$$

Intra\_Diels\_alder\_monocyclic

$$C = {}^{2}C - {}^{3}C = {}^{4}C - {}^{5}C = {}^{6}C$$

 $Concerted\_Intra\_Diels\_alder\_monocyclic\_1, 2\_shiftH$ 

$$^{1}\text{C} = ^{2}\text{C} - ^{3}\text{C} = ^{4}\text{C} - ^{5}\text{C} = ^{6}\text{C} - ^{7}\text{H}$$

Intra\_2+2\_cycloaddition\_Cd

$$\begin{array}{c|cccc}
 & 1C & 3C & & & 1C & -3C \\
 & \parallel & \parallel & & & & & \downarrow \\
 & 2C & -4C & & & & 2C & -4C
\end{array}$$

Intra\_ene\_reaction

Cyclopentadiene\_scission

 $6\_membered\_central\_C\text{-}C\_shift$