$\tau_{R_{1,2}}(X) = \{U, \phi, \{b,c\}, \{b,d\}\}$ are Nano (1,2)* open sets.

$[\tau_{R_{1,2}}(X)]^c = \{U, \phi, \{a,d\}, \{a,c\}\}$ are Nano (1,2)* closed sets.

Nano (1,2)* $\alpha$ - closed sets $= \{U, \phi, \{a,d\}, \{a,c\}, \{d\}, \{a\}, \{c\}\}$.

Nano (1,2)* generalized $\alpha$ - closed sets $= \{U, \phi, \{a\}, \{a,c\}, \{a,d\}\}$.

Hence the union of two Nano (1,2)* generalized $\alpha$ - closed set in $(U, \tau_{R_{1,2}}(X))$ are need not be Nano (1,2)* generalized $\alpha$ - closed set in $(U, \tau_{R_{1,2}}(X))$.

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