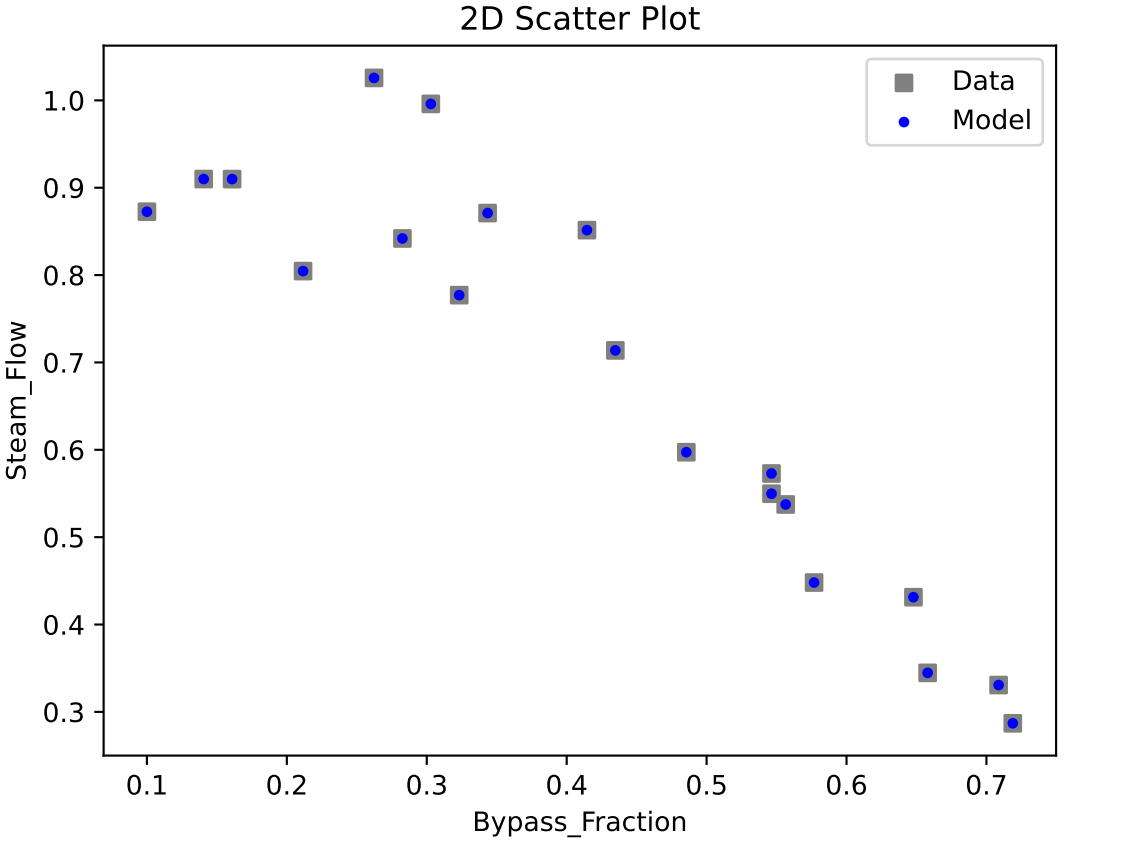
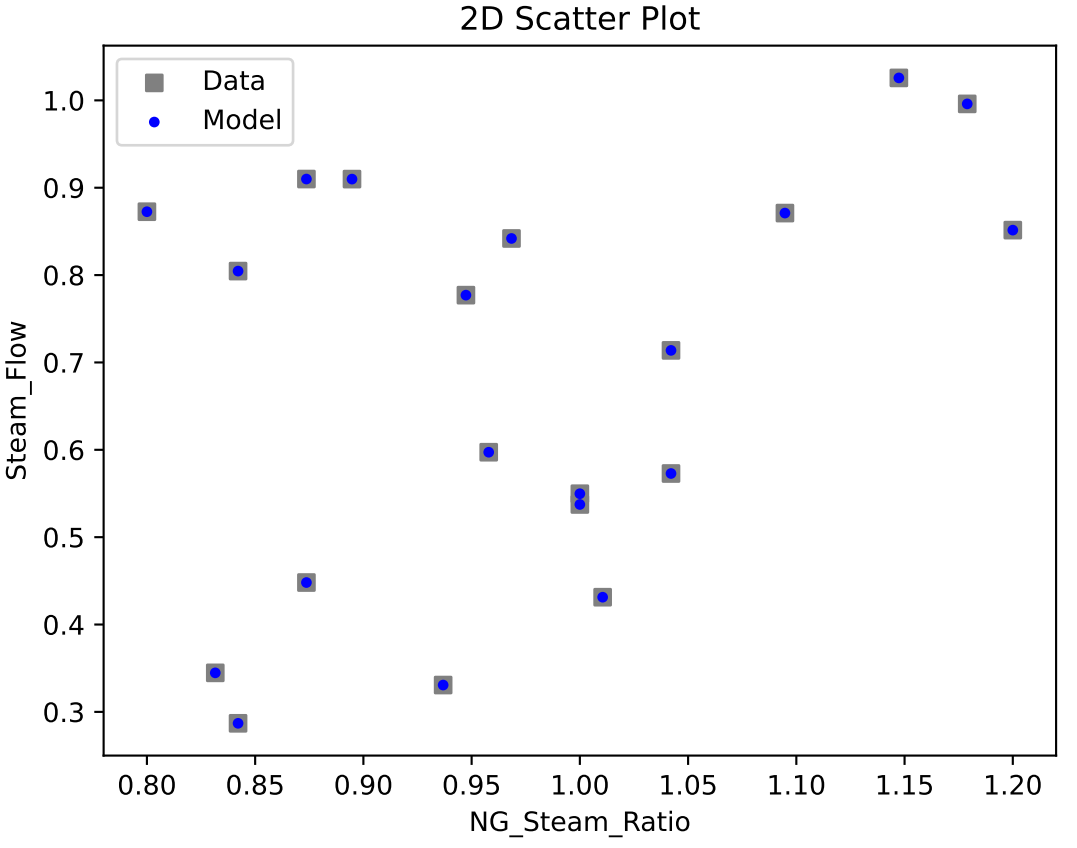
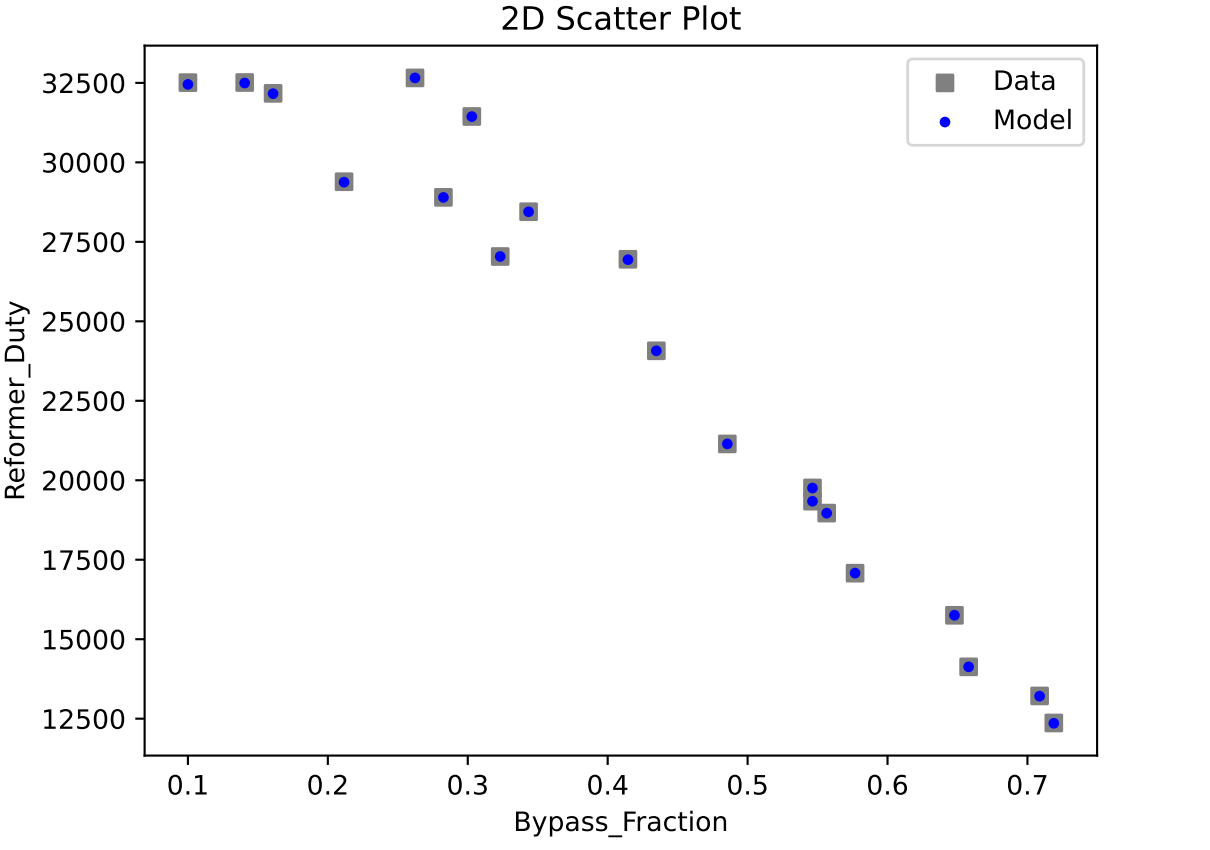
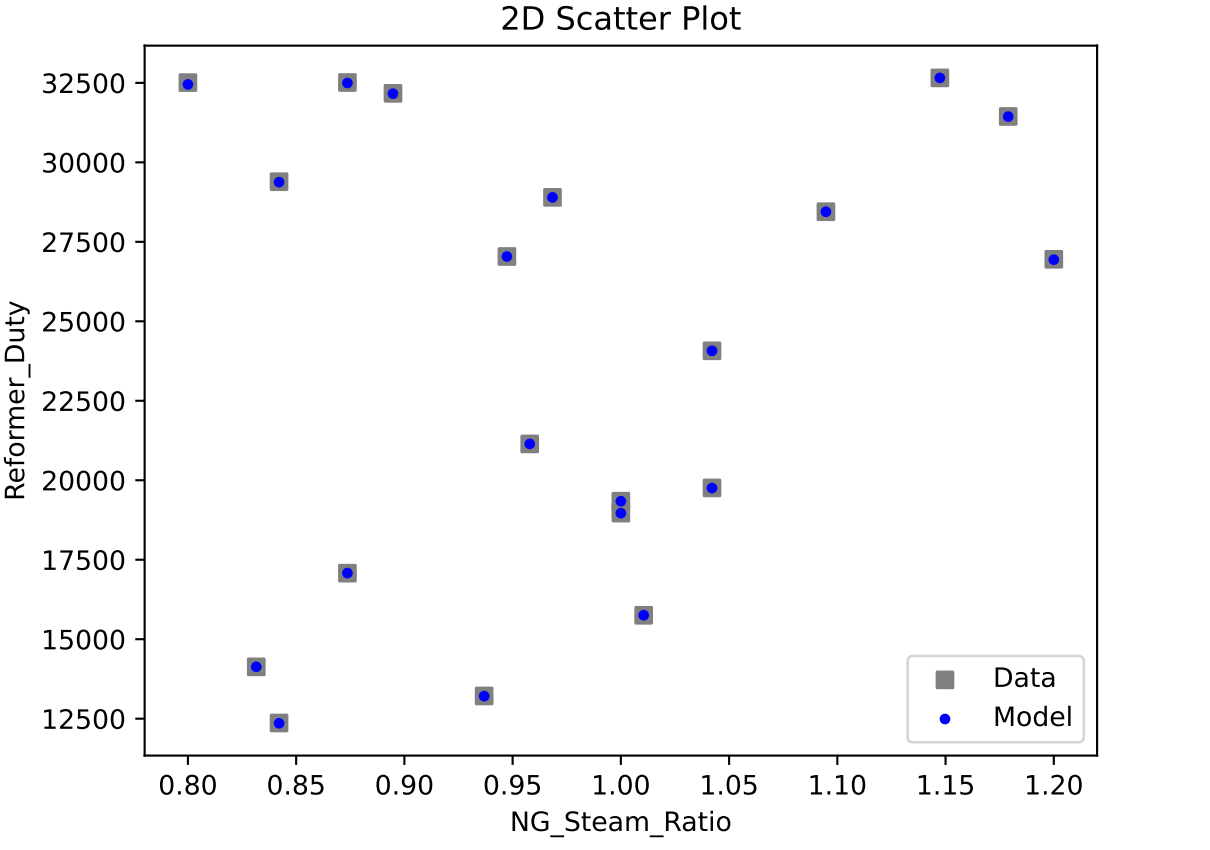
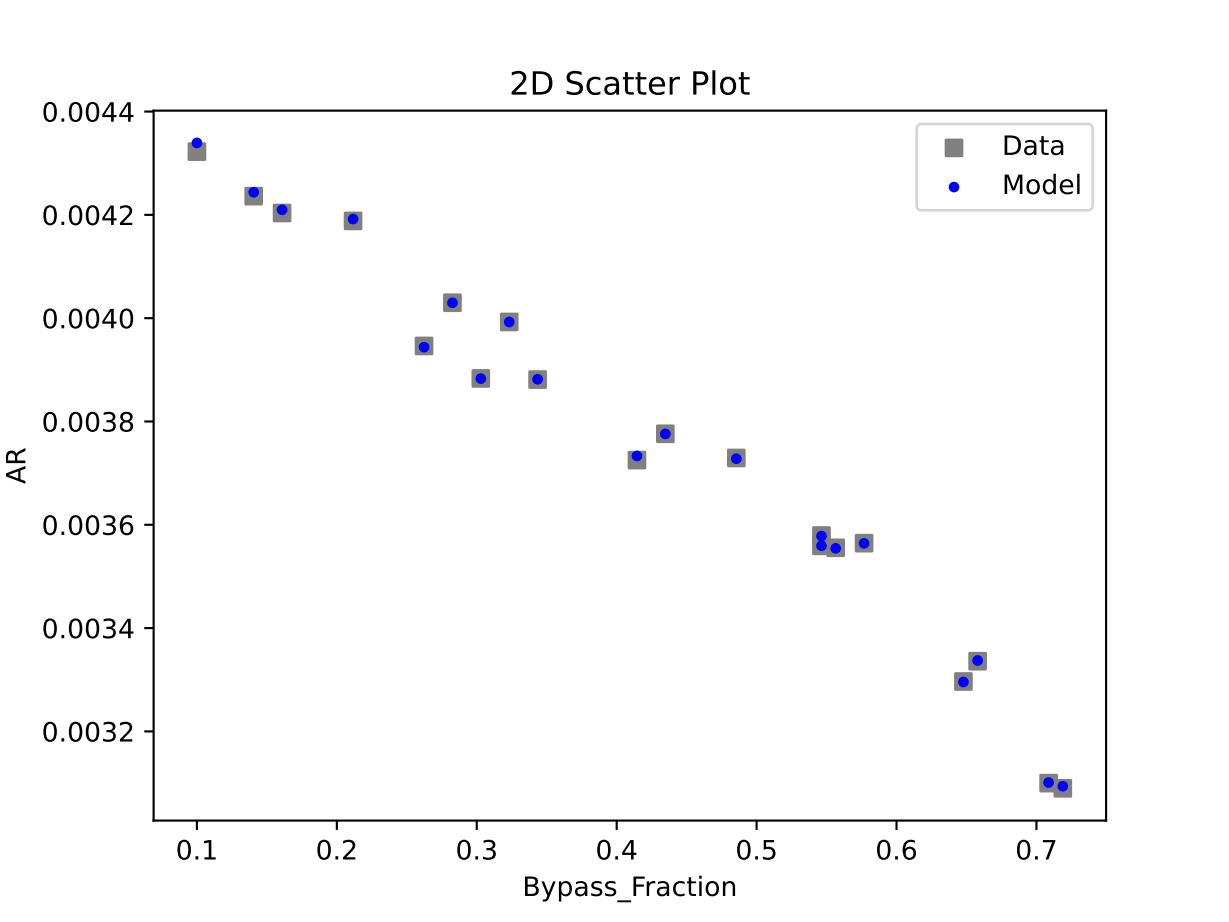
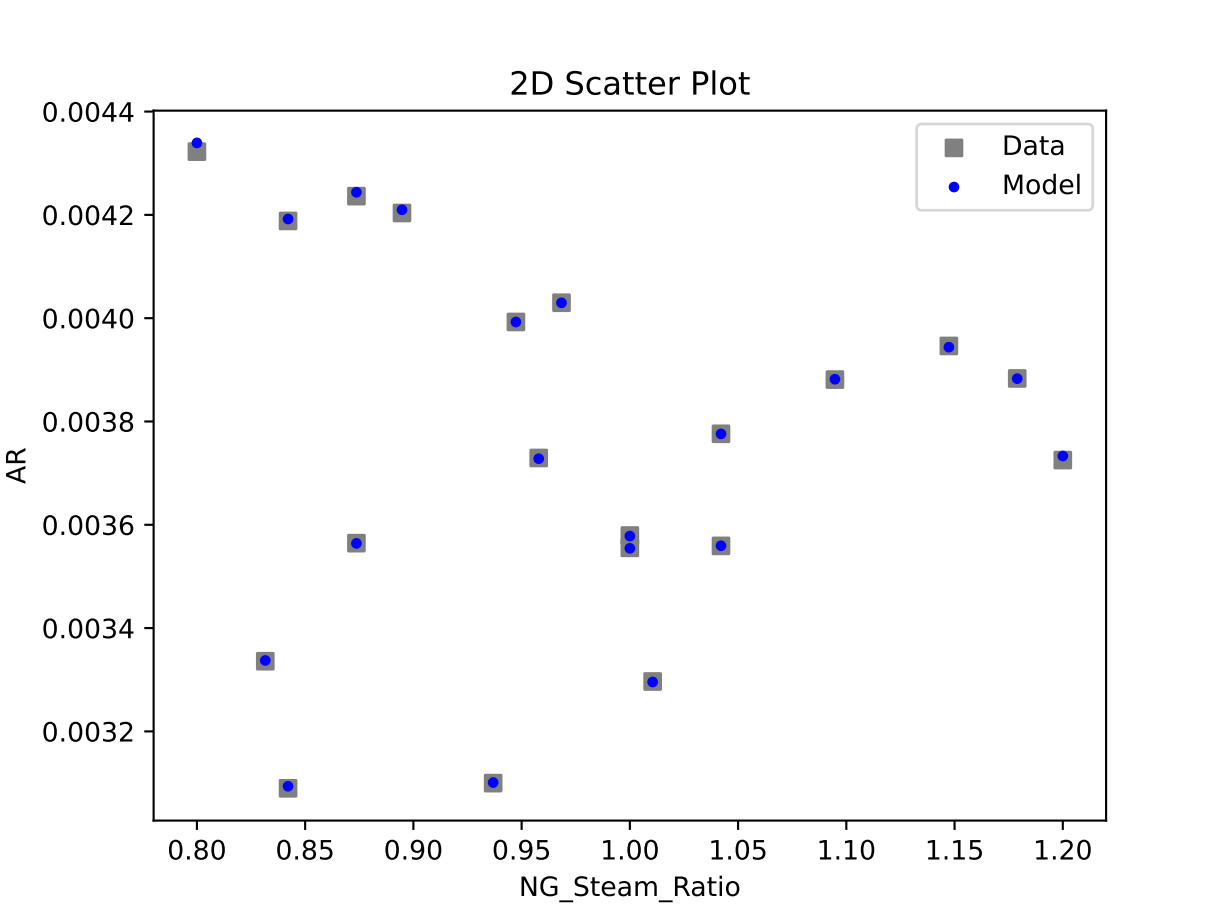

2D Scatter Plot
Data
Model
Steam_Flow
Bypass_Fraction
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.1
0.2
0.3
0.4
0.5
0.6
0.7

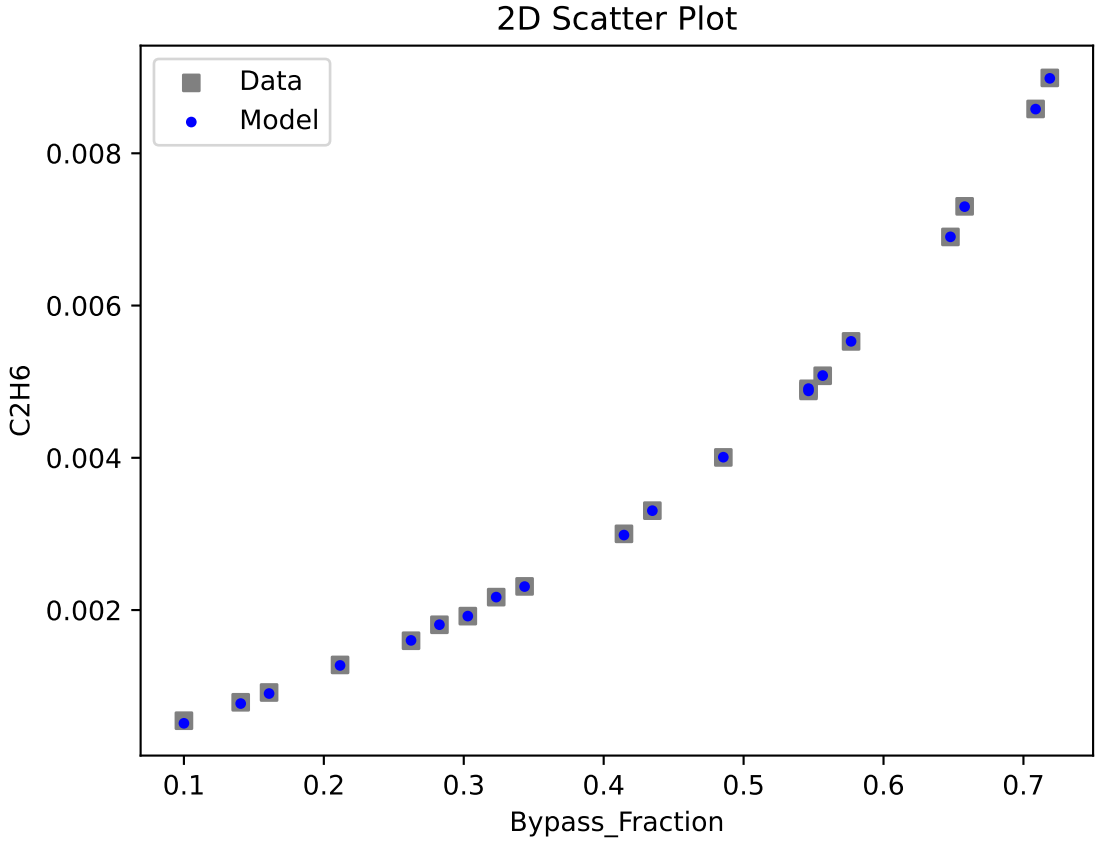

2D Scatter Plot
Data
Model
Steam_Flow
NG_Steam_Ratio
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20

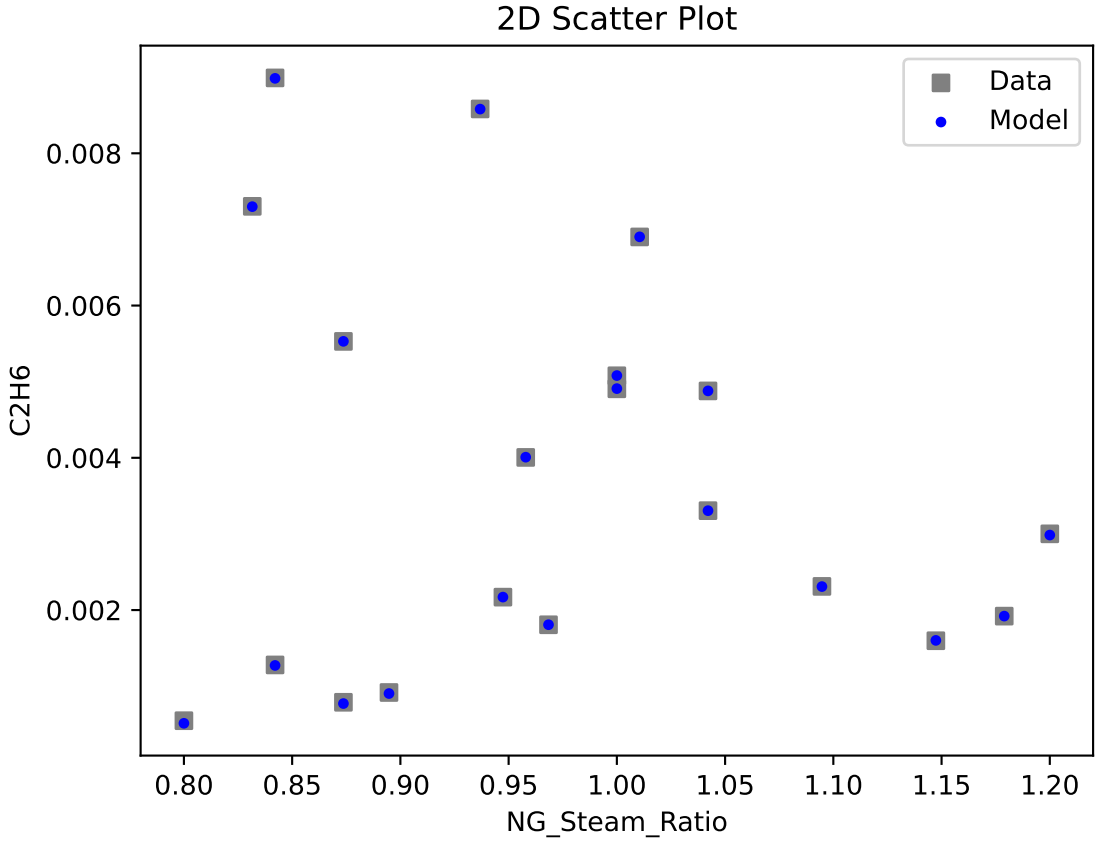

2D Scatter Plot
Data
Model
Reformer_Duty
Bypass_Fraction
32500
30000
27500
25000
22500
20000
17500
15000
12500
0.1
0.2
0.3
0.4
0.5
0.6
0.7

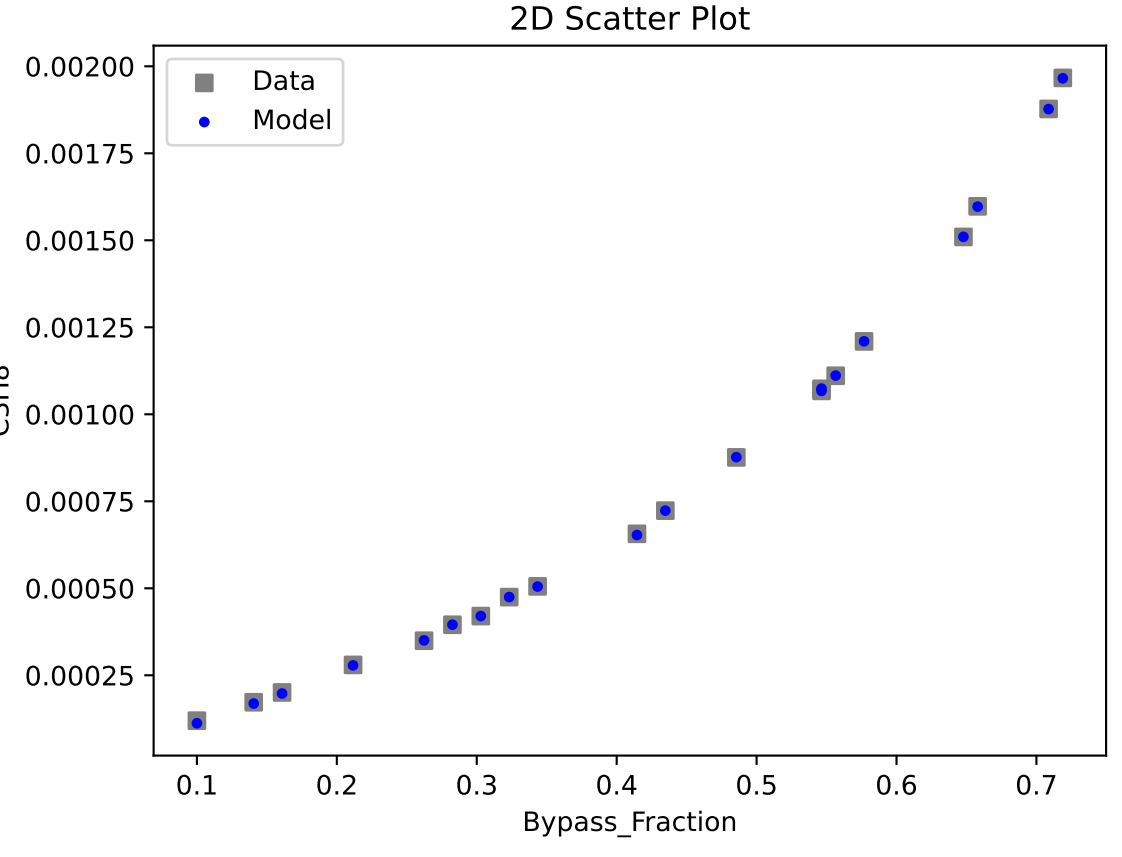

2D Scatter Plot
Reformer_Duty
NG_Steam_Ratio
32500
30000
27500
25000
22500
20000
17500
15000
12500
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
Data
Model

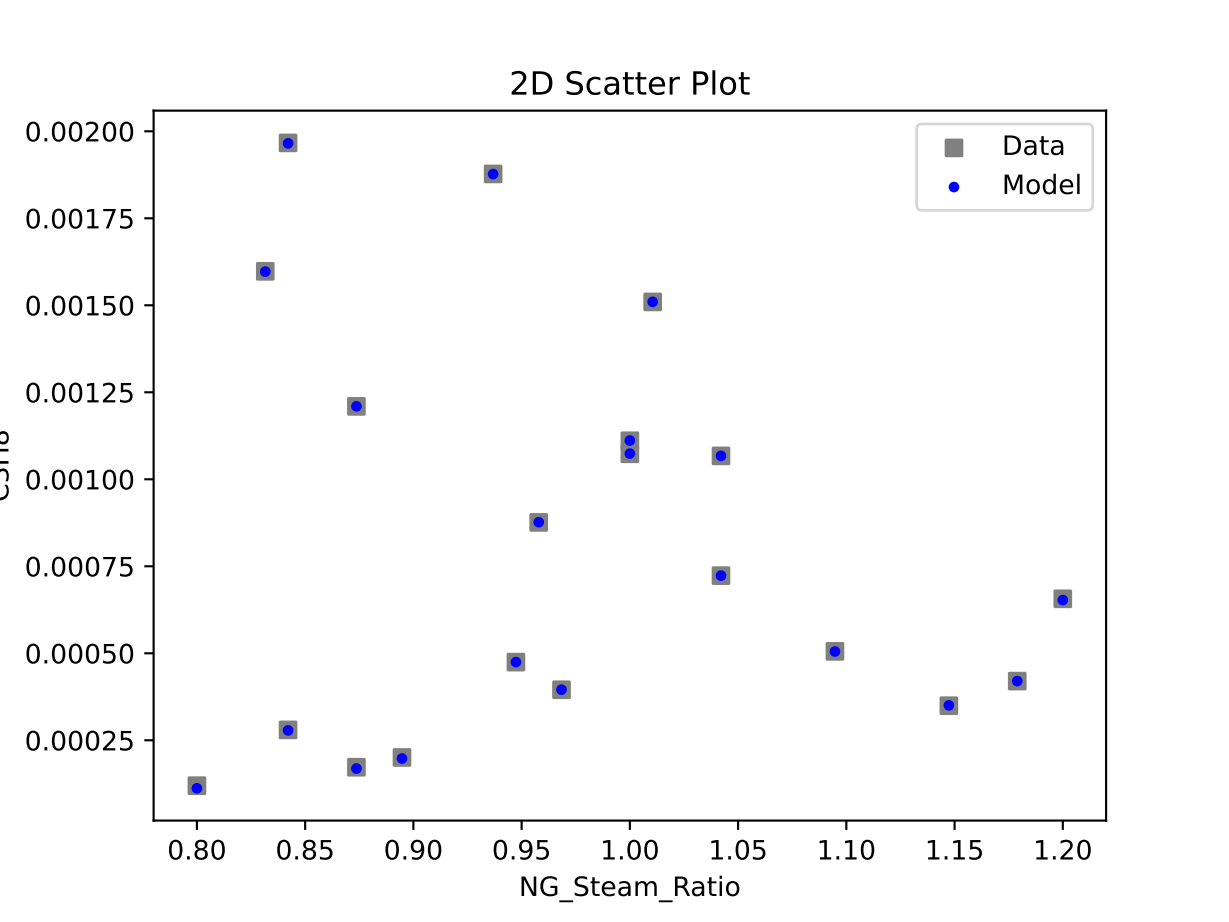

2D Scatter Plot
Data
Model
AR
Bypass_Fraction
0.0044
0.0042
0.0040
0.0038
0.0036
0.0034
0.0032
0.1
0.2
0.3
0.4
0.5
0.6
0.7

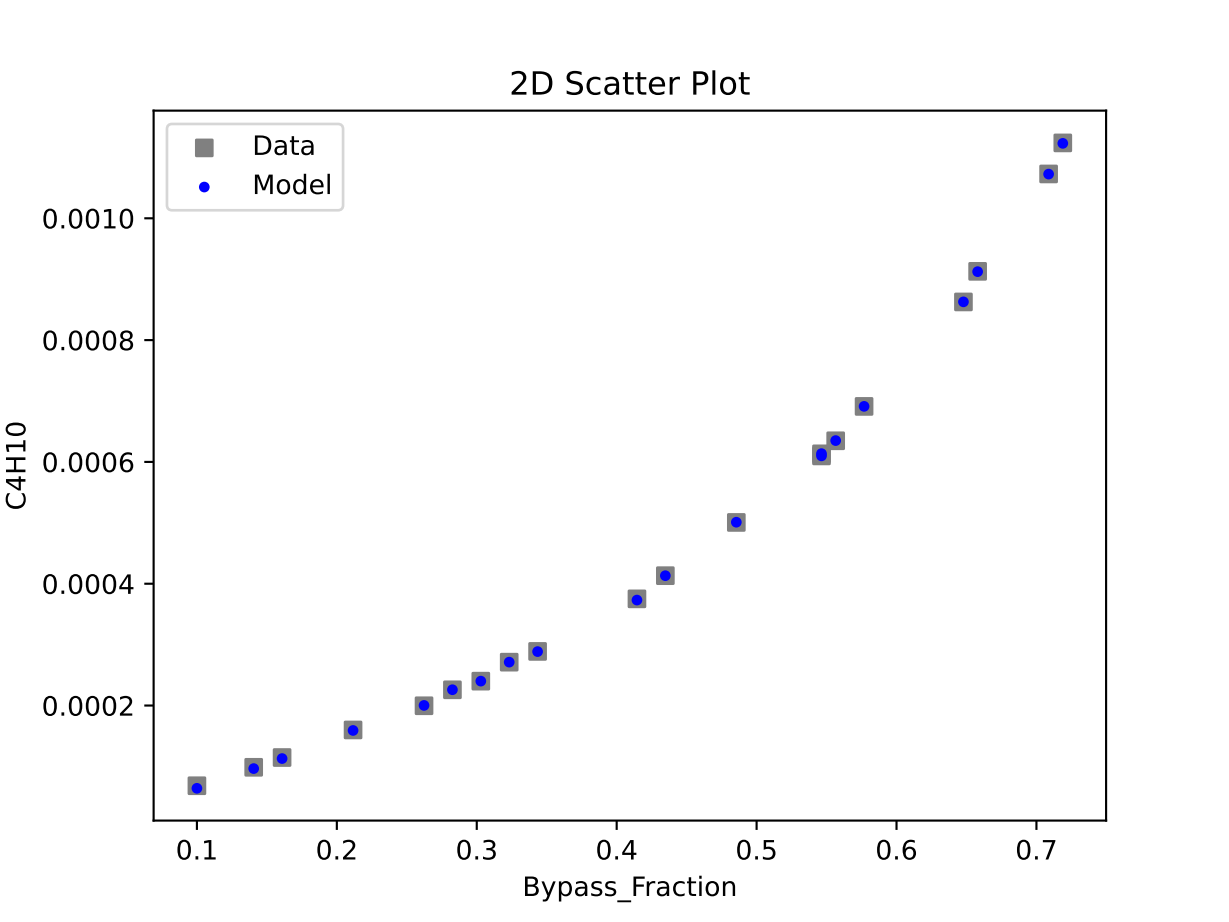

2D Scatter Plot
Data
Model
AR
NG_Steam_Ratio
0.0044
0.0042
0.0040
0.0038
0.0036
0.0034
0.0032
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20

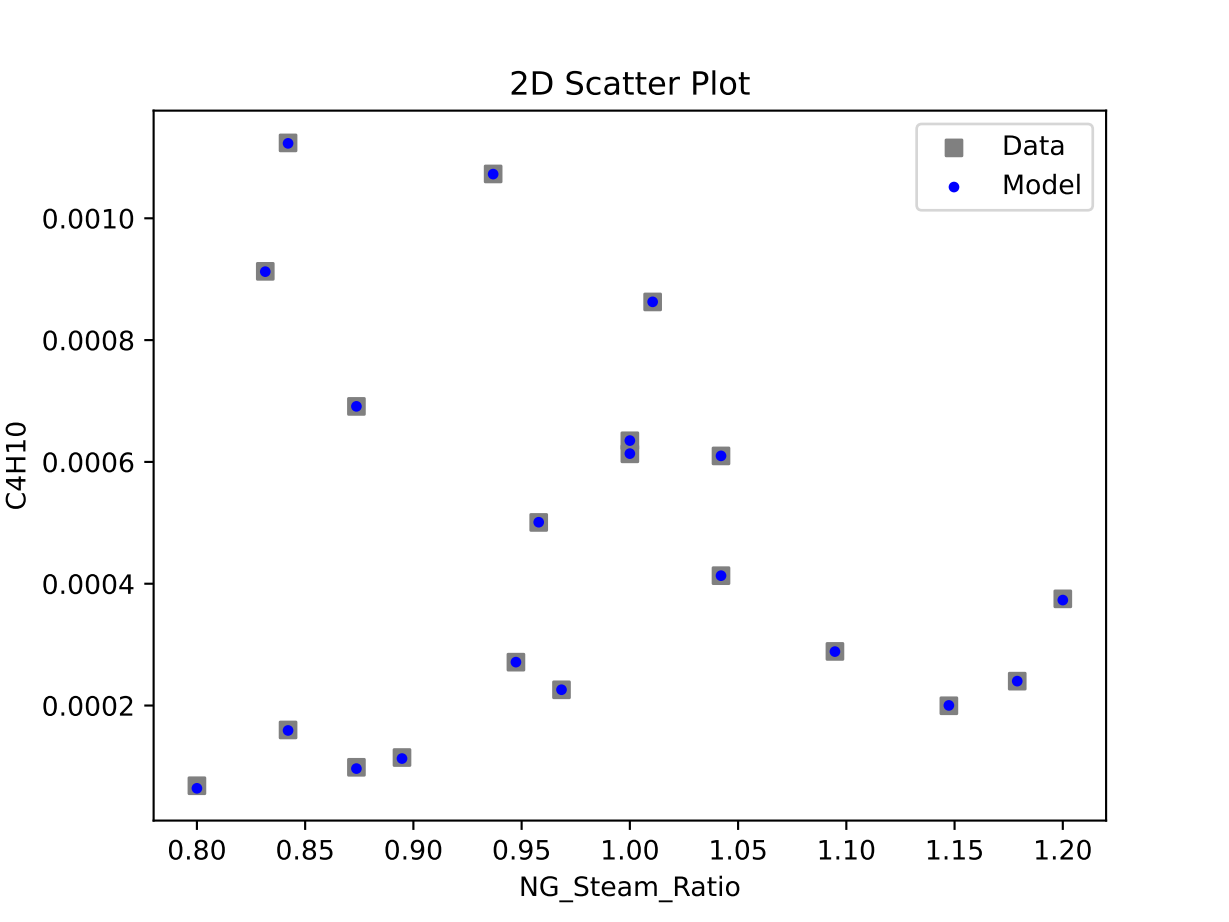

2D Scatter Plot
Data
Model
0.008
0.006
0.004
0.002
C2H6
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Bypass_Fraction

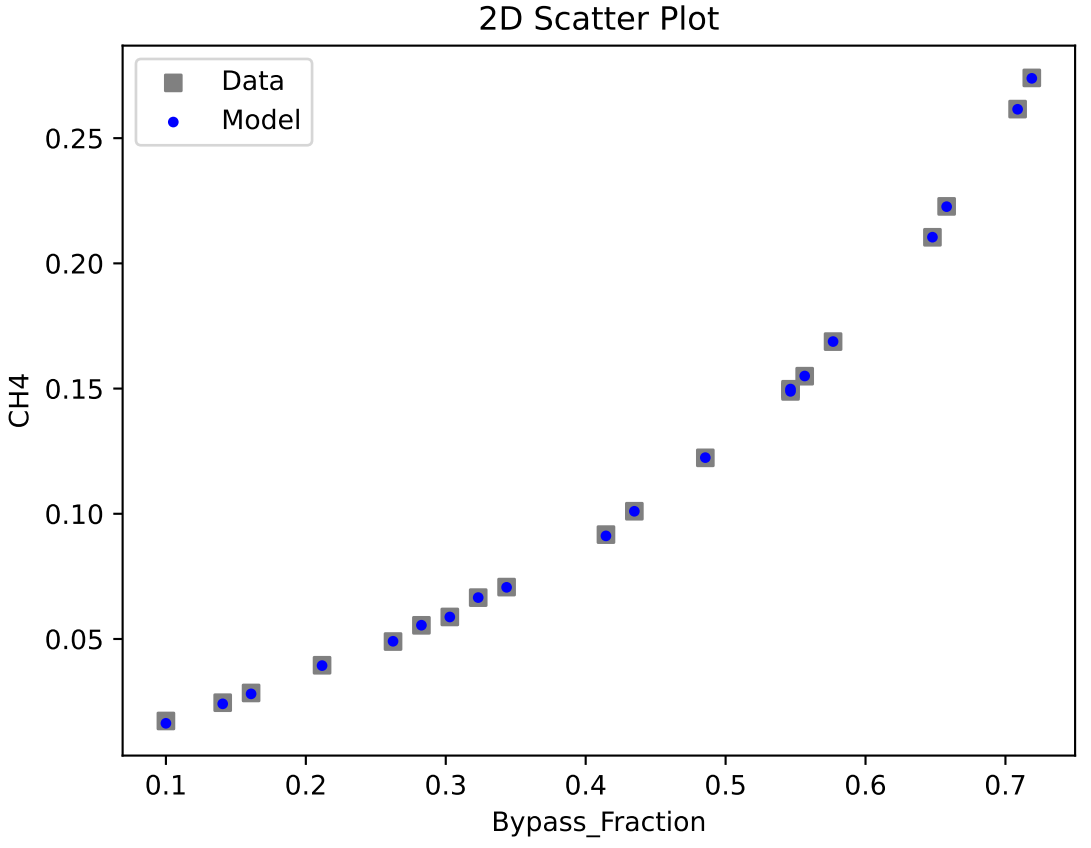

2D Scatter Plot
Data
Model
C2H6
0.008
0.006
0.004
0.002
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
NG_Steam_Ratio

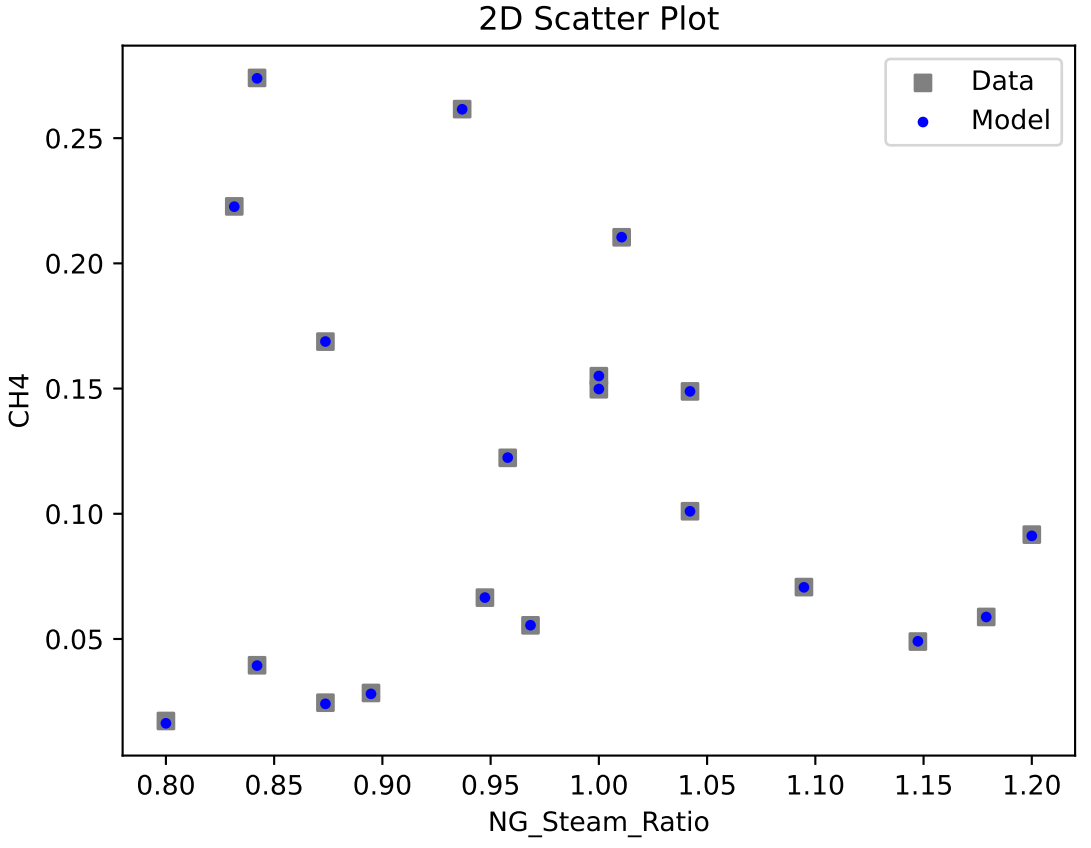

2D Scatter Plot
Data
Model
0.00200
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
CSI6
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Bypass_Fraction

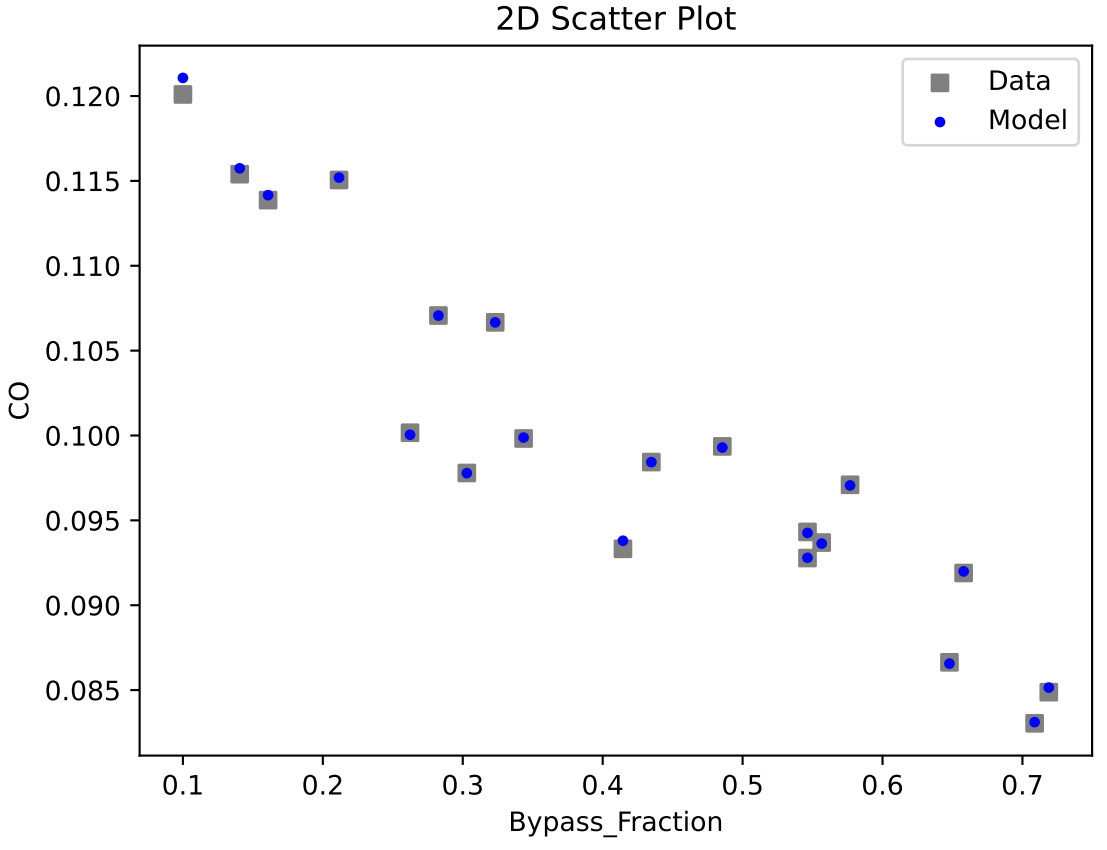

2D Scatter Plot
Data
Model
0.00200
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
NG_Steam_Ratio

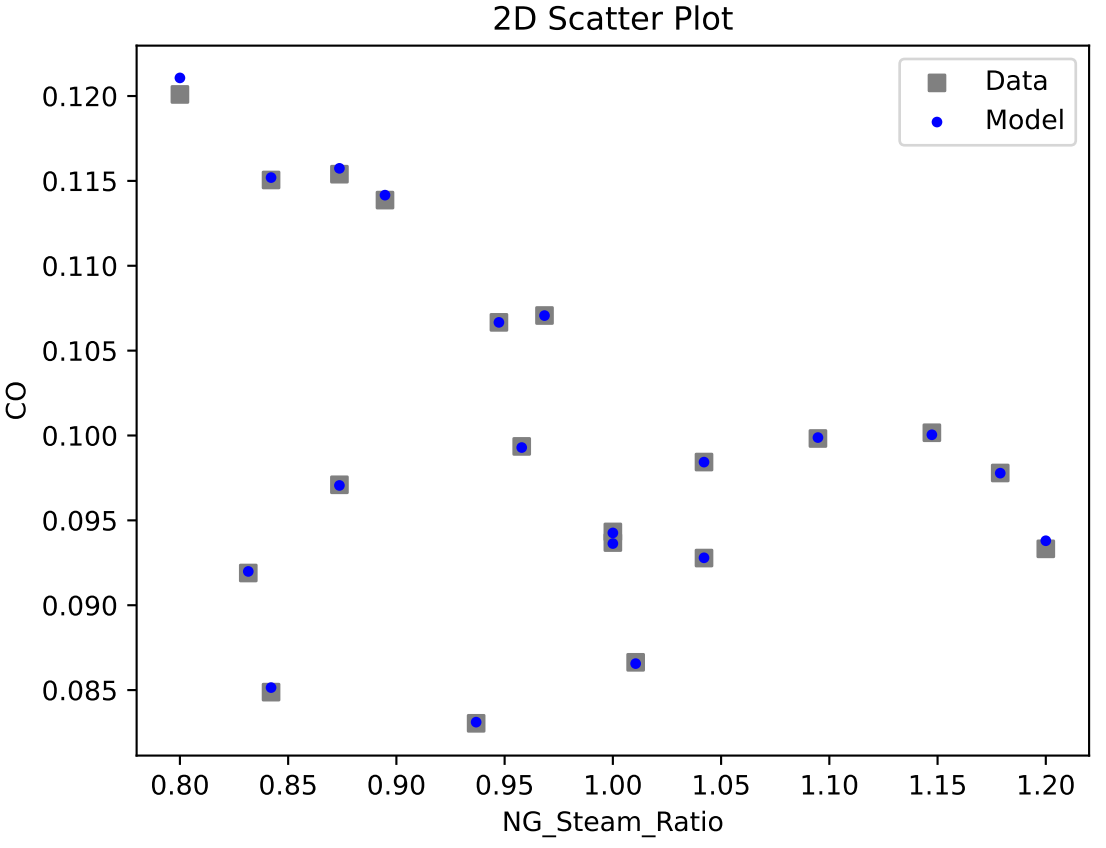

2D Scatter Plot
Data
Model
0.0010
0.0008
0.0006
0.0004
0.0002
C4H10
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Bypass_Fraction

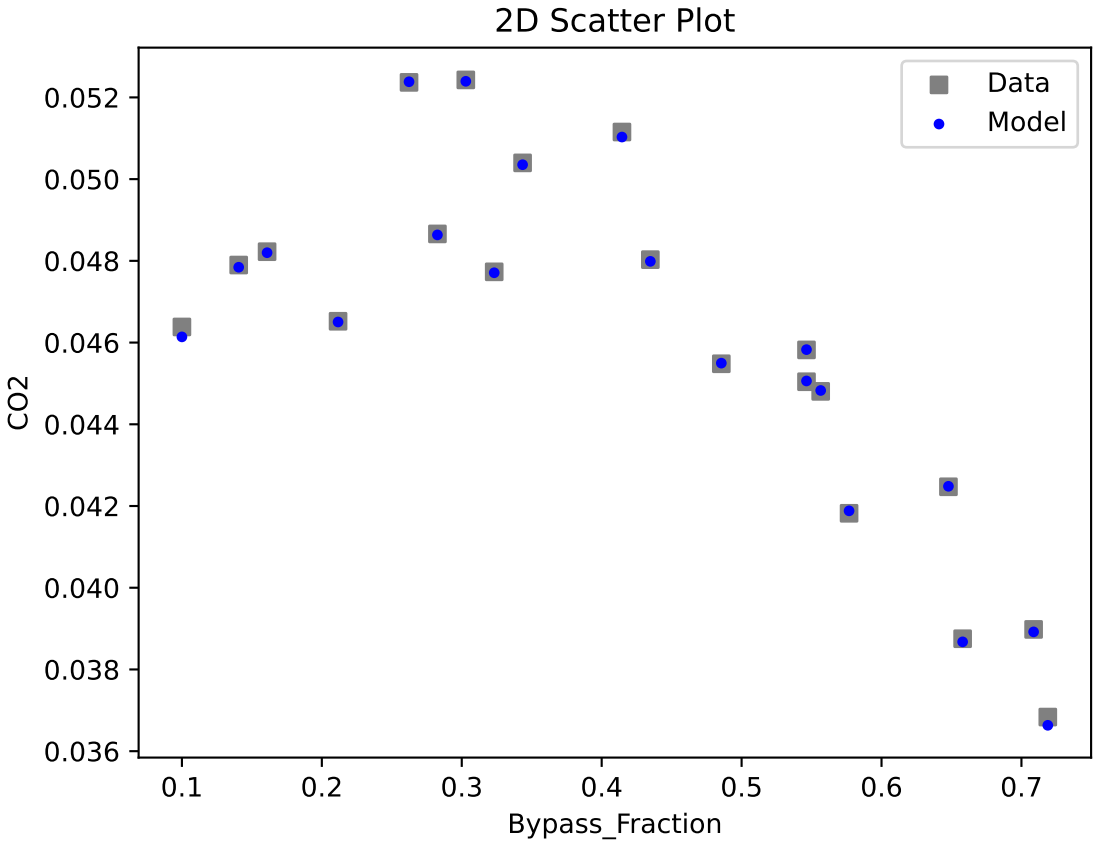

2D Scatter Plot
Data
Model
C4H10
0.0010
0.0008
0.0006
0.0004
0.0002
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
NG_Steam_Ratio

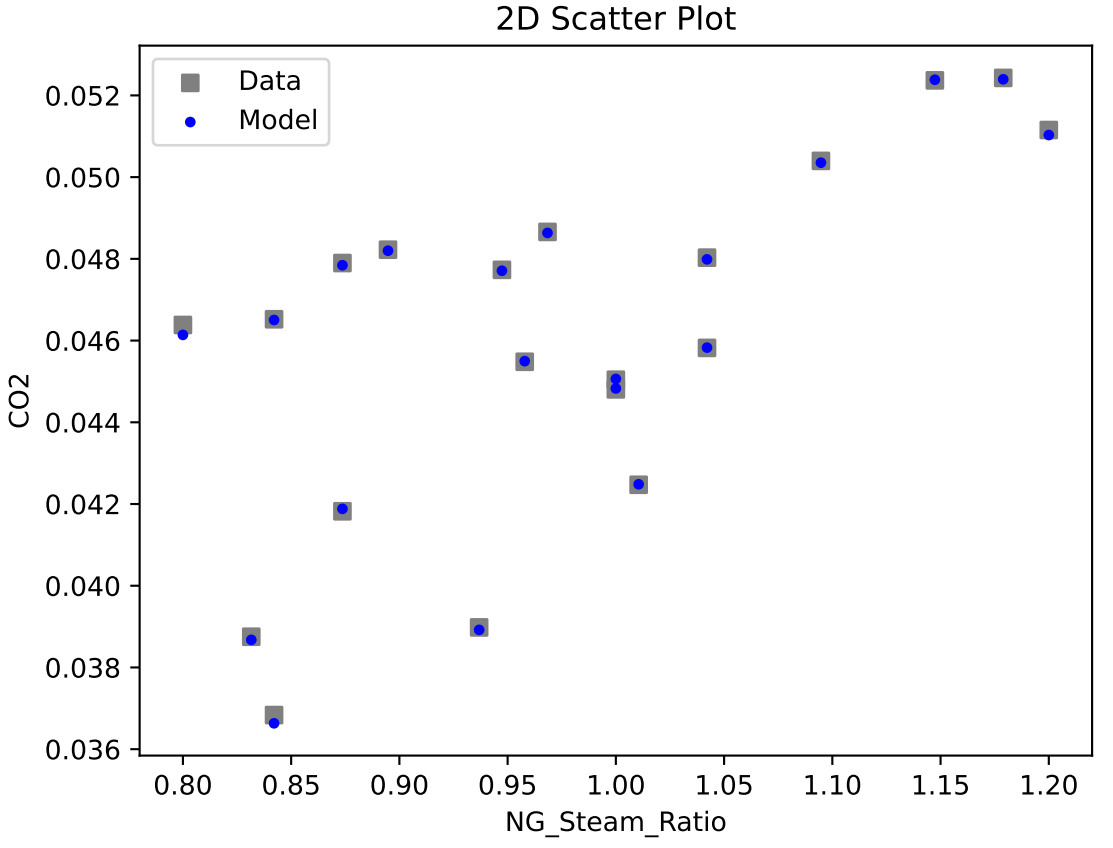

2D Scatter Plot
Data
Model
CH4
Bypass_Fraction
0.05
0.10
0.15
0.20
0.25
0.1
0.2
0.3
0.4
0.5
0.6
0.7

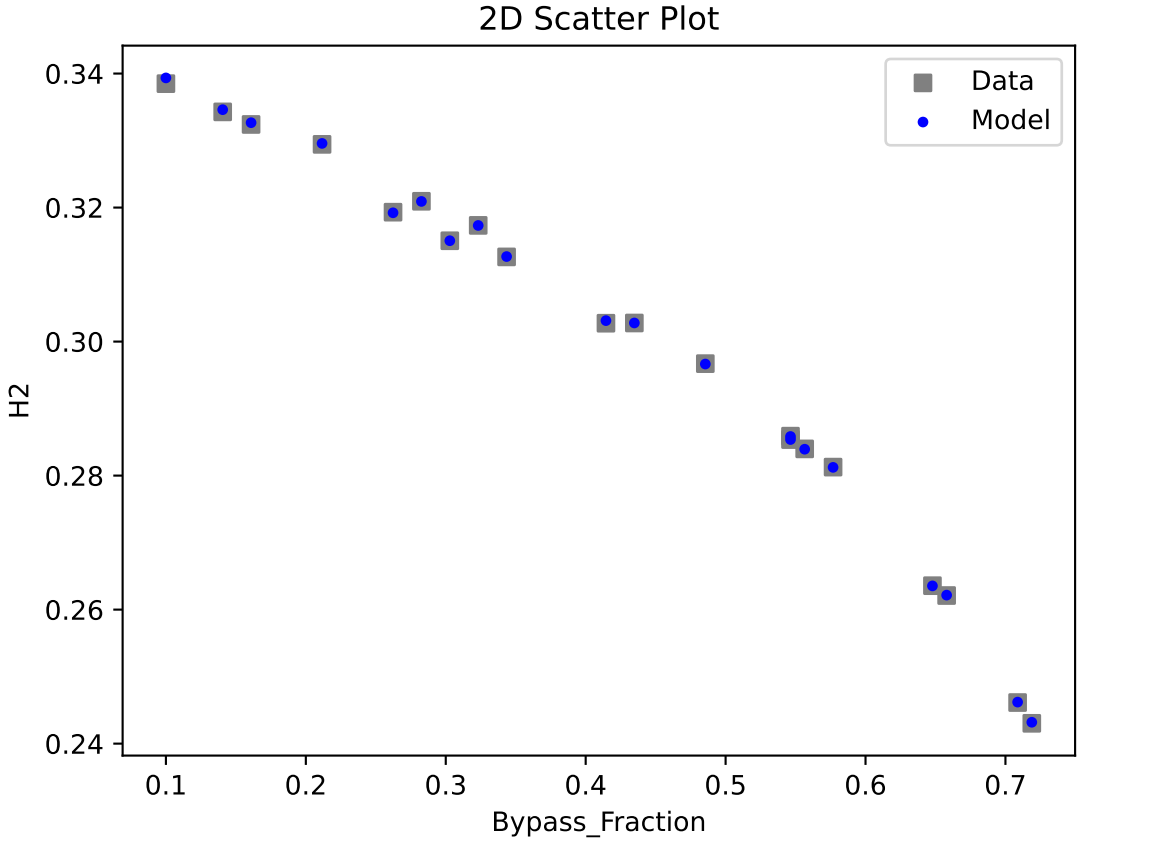

2D Scatter Plot
Data
Model
CH4
NG_Steam_Ratio
0.25
0.20
0.15
0.10
0.05
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20

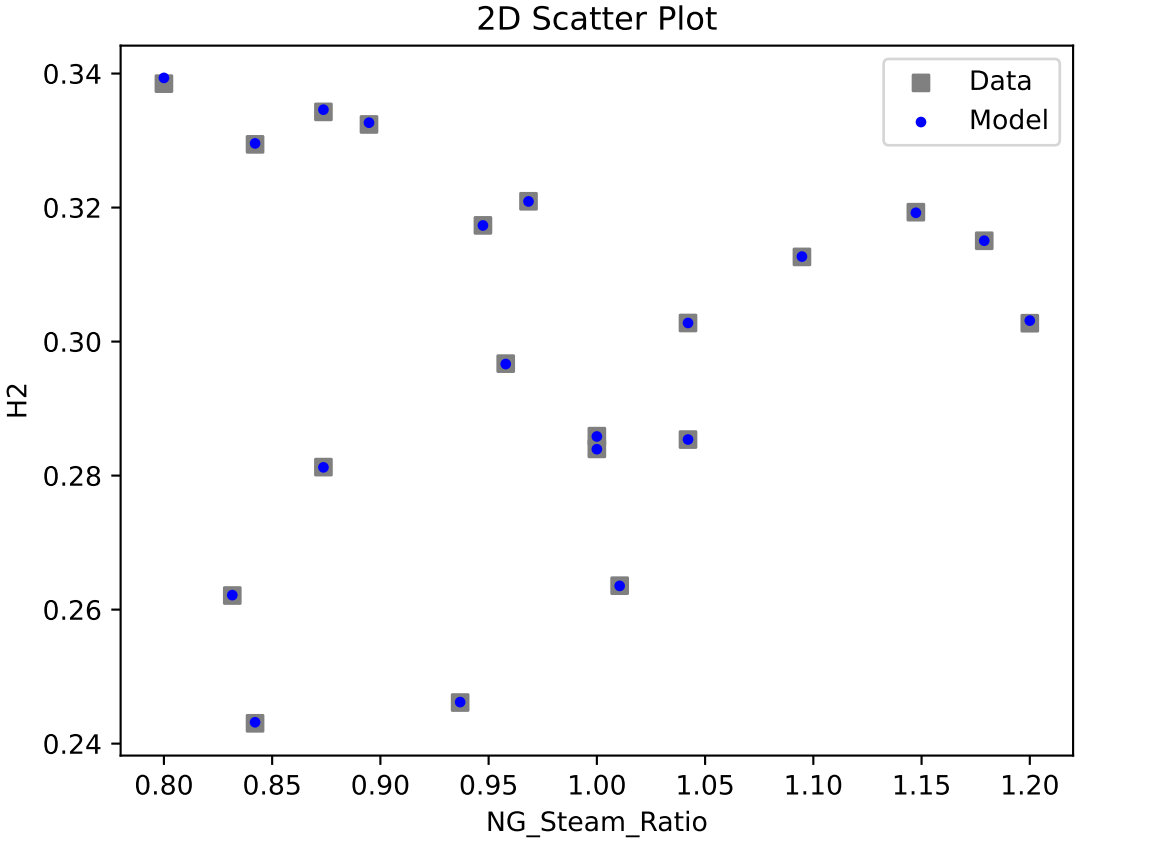

2D Scatter Plot
Data
Model
CO
Bypass_Fraction
0.120
0.115
0.110
0.105
0.100
0.095
0.090
0.085
0.1
0.2
0.3
0.4
0.5
0.6
0.7

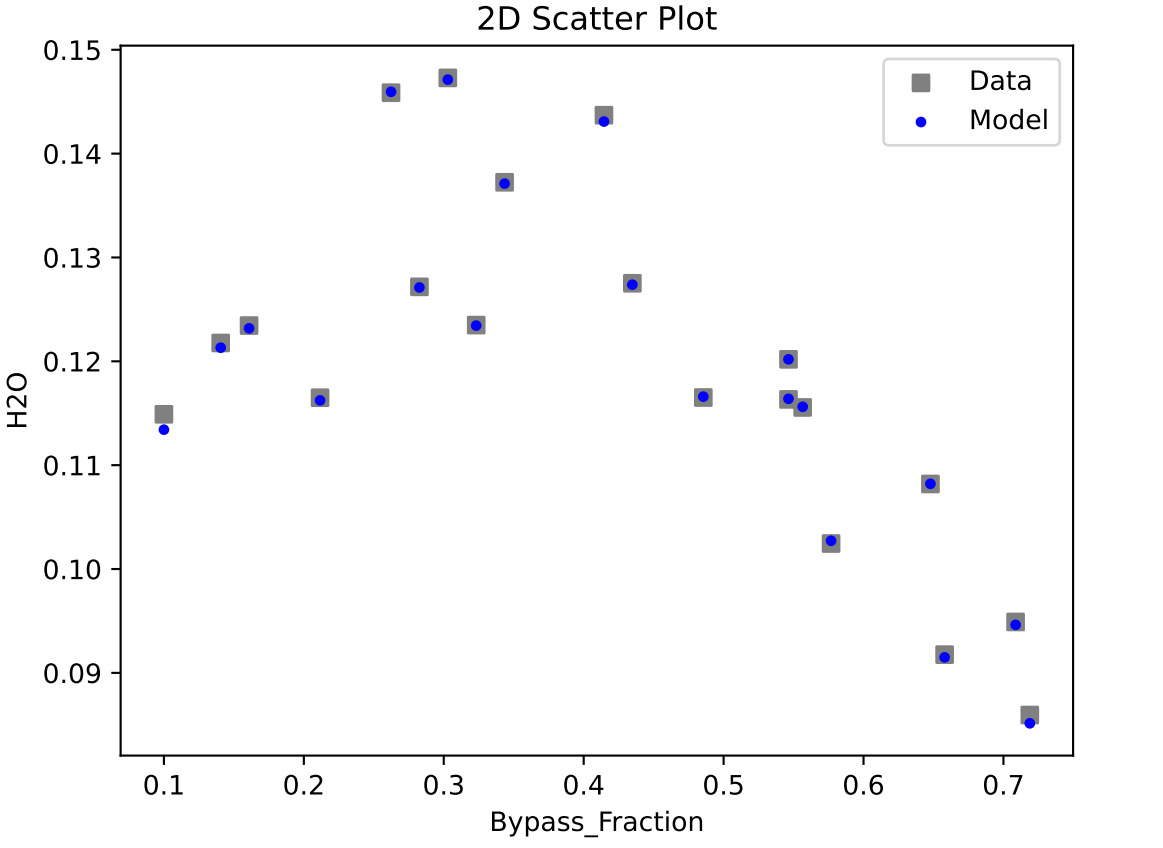

2D Scatter Plot
Data
Model
CO
NG_Steam_Ratio
0.120
0.115
0.110
0.105
0.100
0.095
0.090
0.085
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20

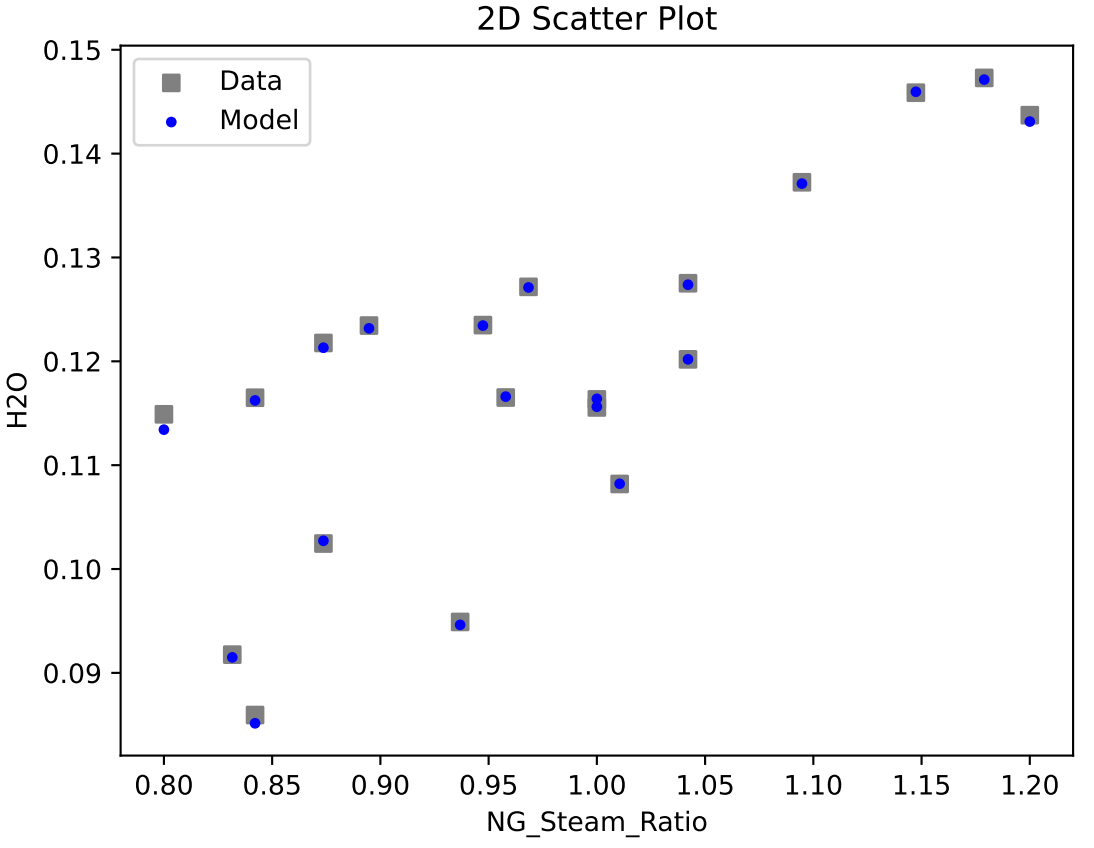

2D Scatter Plot
Data
Model
CO2
Bypass_Fraction
0.052
0.050
0.048
0.046
0.044
0.042
0.040
0.038
0.036
0.1
0.2
0.3
0.4
0.5
0.6
0.7

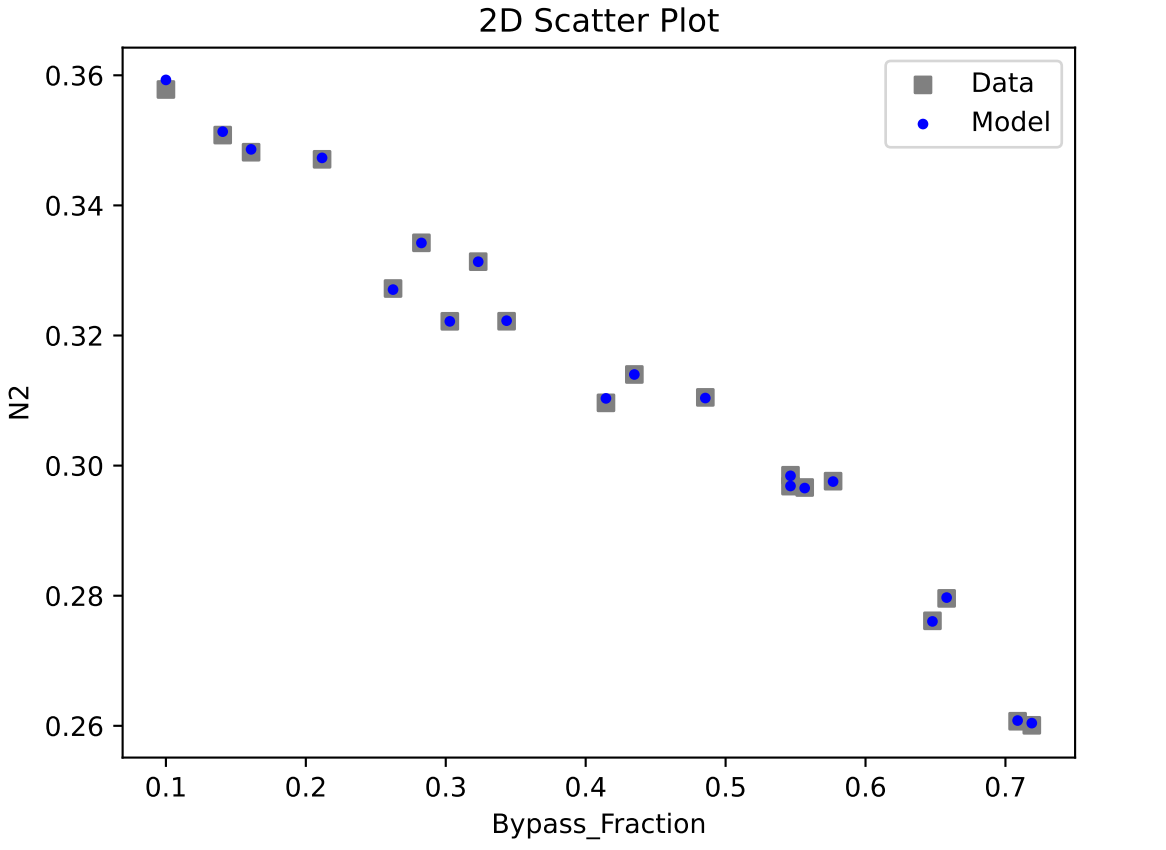

2D Scatter Plot
Data
Model
0.052
0.050
0.048
0.046
0.044
0.042
0.040
0.038
0.036
CO2
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
NG_Steam_Ratio

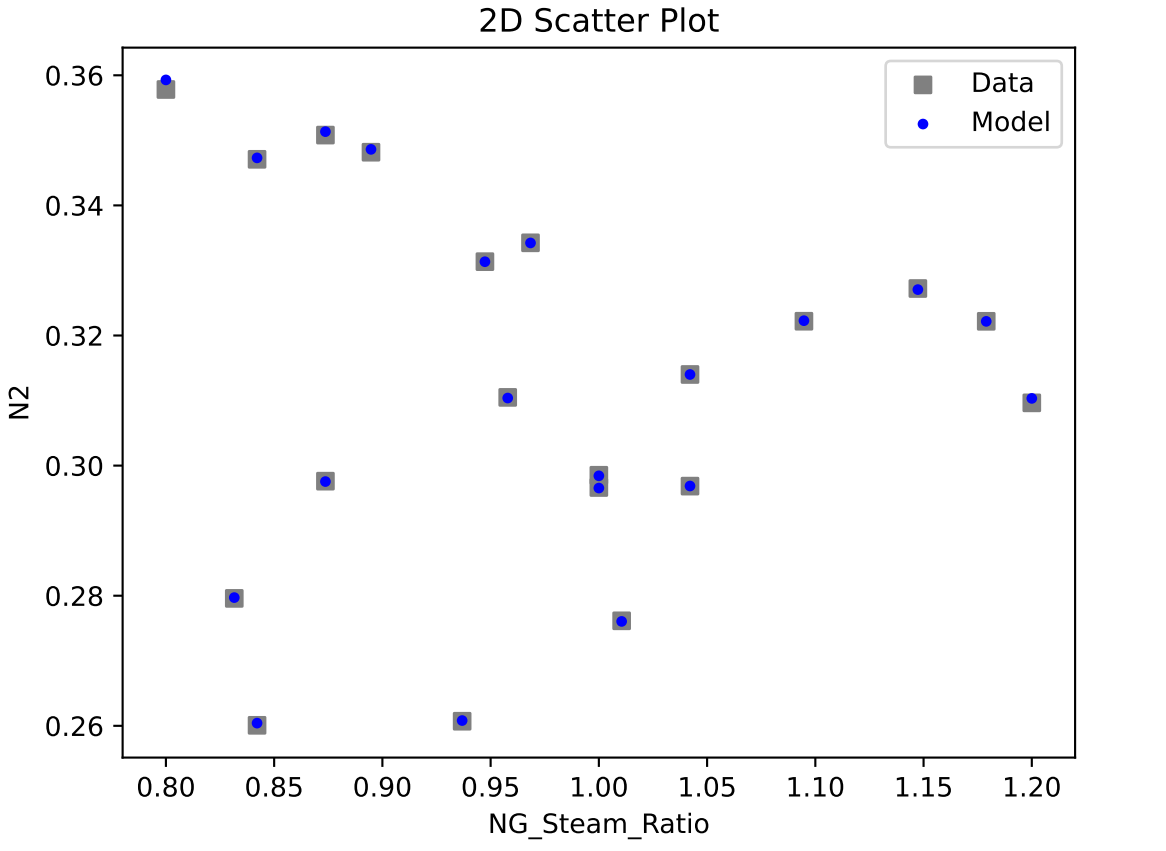

2D Scatter Plot
Data
Model
H2
Bypass_Fraction
0.34
0.32
0.30
0.28
0.26
0.24
0.1
0.2
0.3
0.4
0.5
0.6
0.7

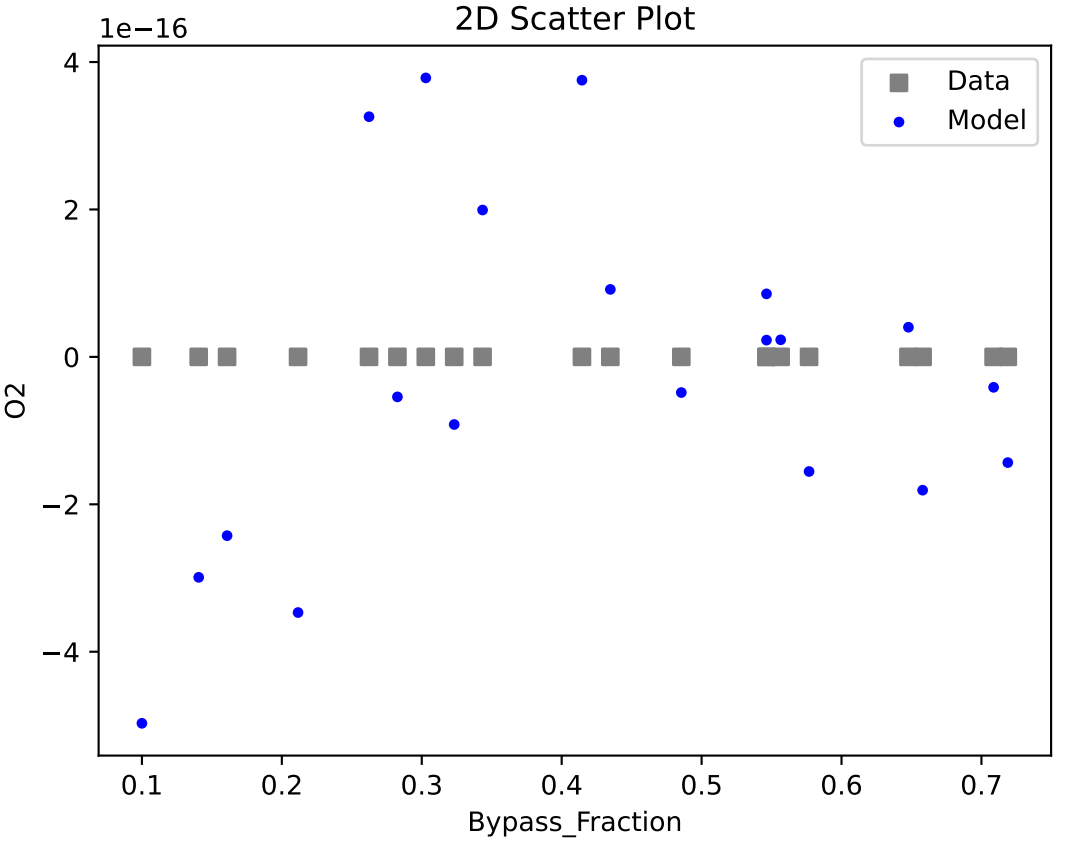

2D Scatter Plot
Data
Model
H2
NG_Steam_Ratio
0.34
0.32
0.30
0.28
0.26
0.24
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20

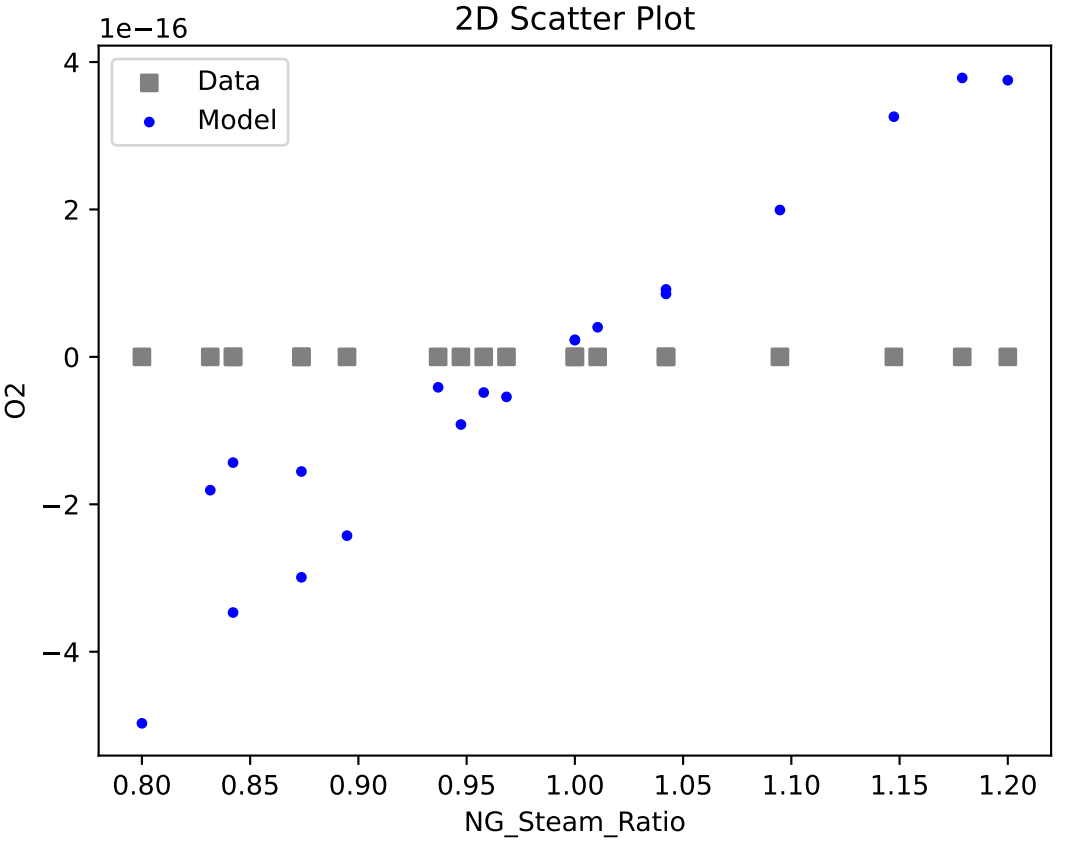

2D Scatter Plot
Data
Model
H2O
Bypass_Fraction
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.1
0.2
0.3
0.4
0.5
0.6
0.7


2D Scatter Plot
Data
Model
H2O
NG_Steam_Ratio
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
N2
Bypass_Fraction
0.36
0.34
0.32
0.30
0.28
0.26
0.1
0.2
0.3
0.4
0.5
0.6
0.7


2D Scatter Plot
Data
Model
N2
NG_Steam_Ratio
0.36
0.34
0.32
0.30
0.28
0.26
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
1e−16
4
2
0
−2
−4
O2
Data
Model
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Bypass_Fraction


2D Scatter Plot
1e−16
Data
Model
O2
NG_Steam_Ratio
4
2
0
−2
−4
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20