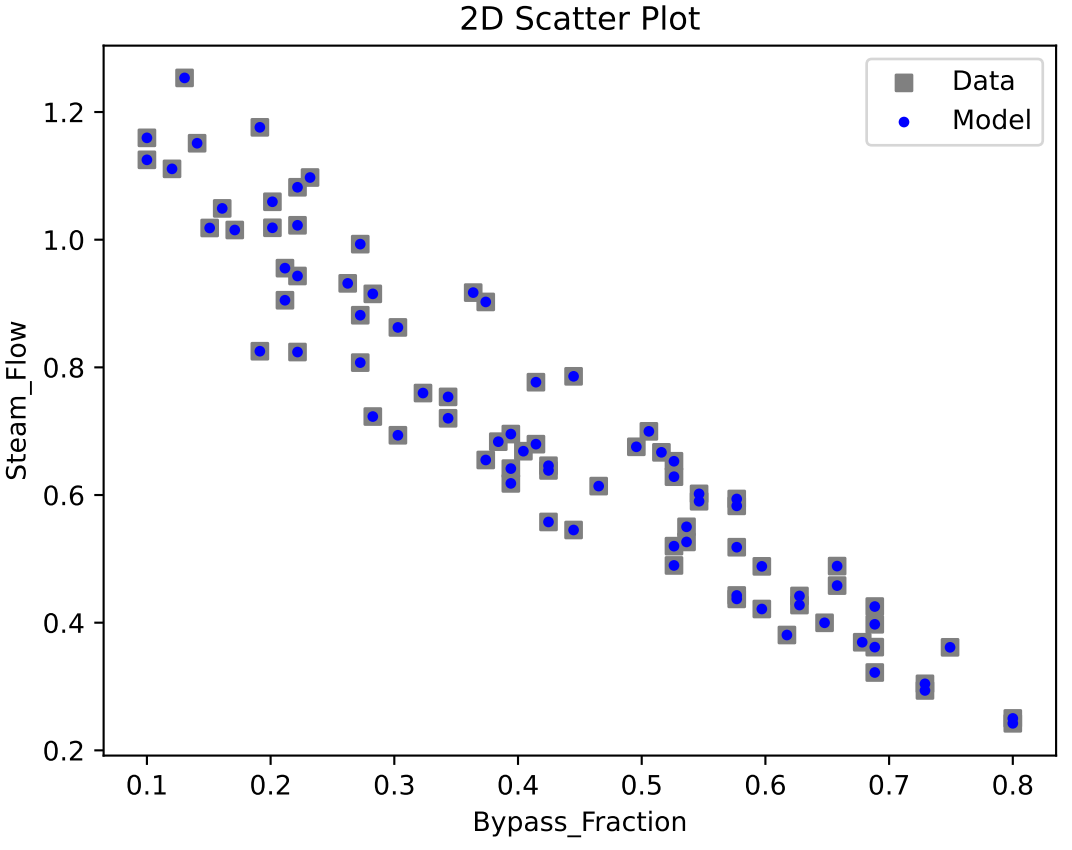
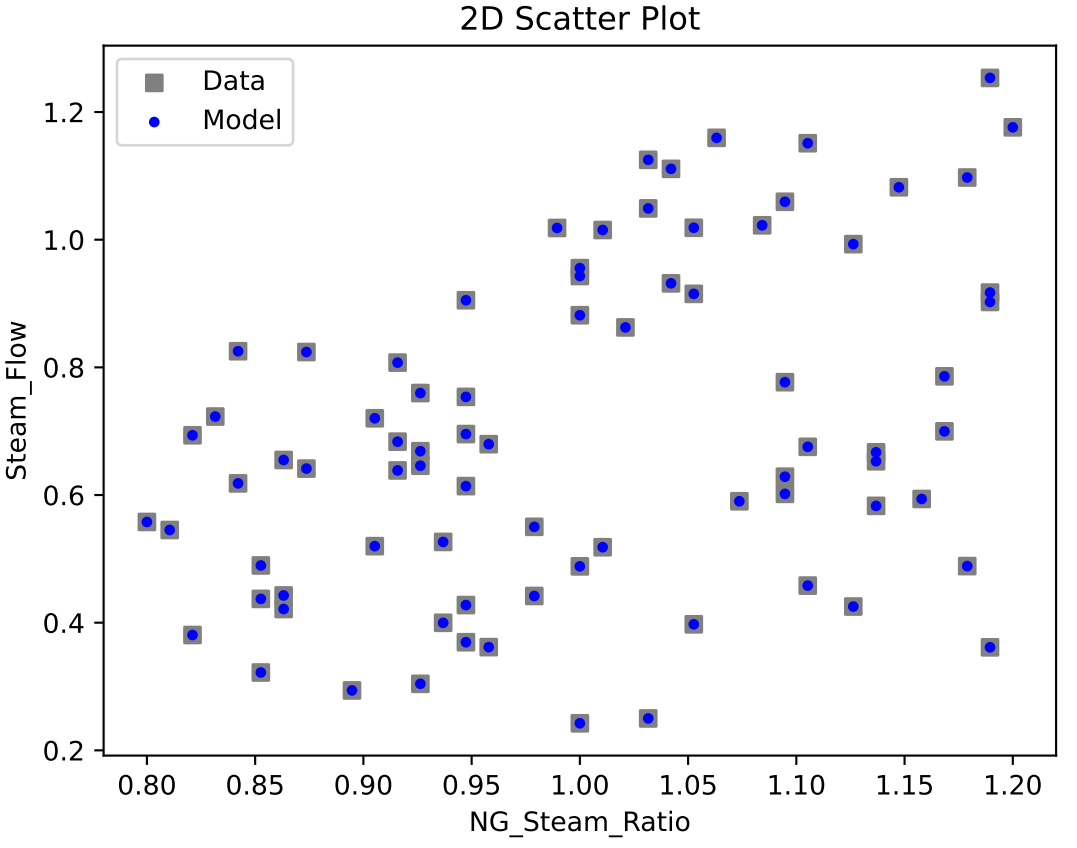

2D Scatter Plot
Data
Model
Steam_Flow
Bypass_Fraction
1.2
1.0
0.8
0.6
0.4
0.2
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


2D Scatter Plot
Data
Model
Steam_Flow
NG_Steam_Ratio
0.2
0.4
0.6
0.8
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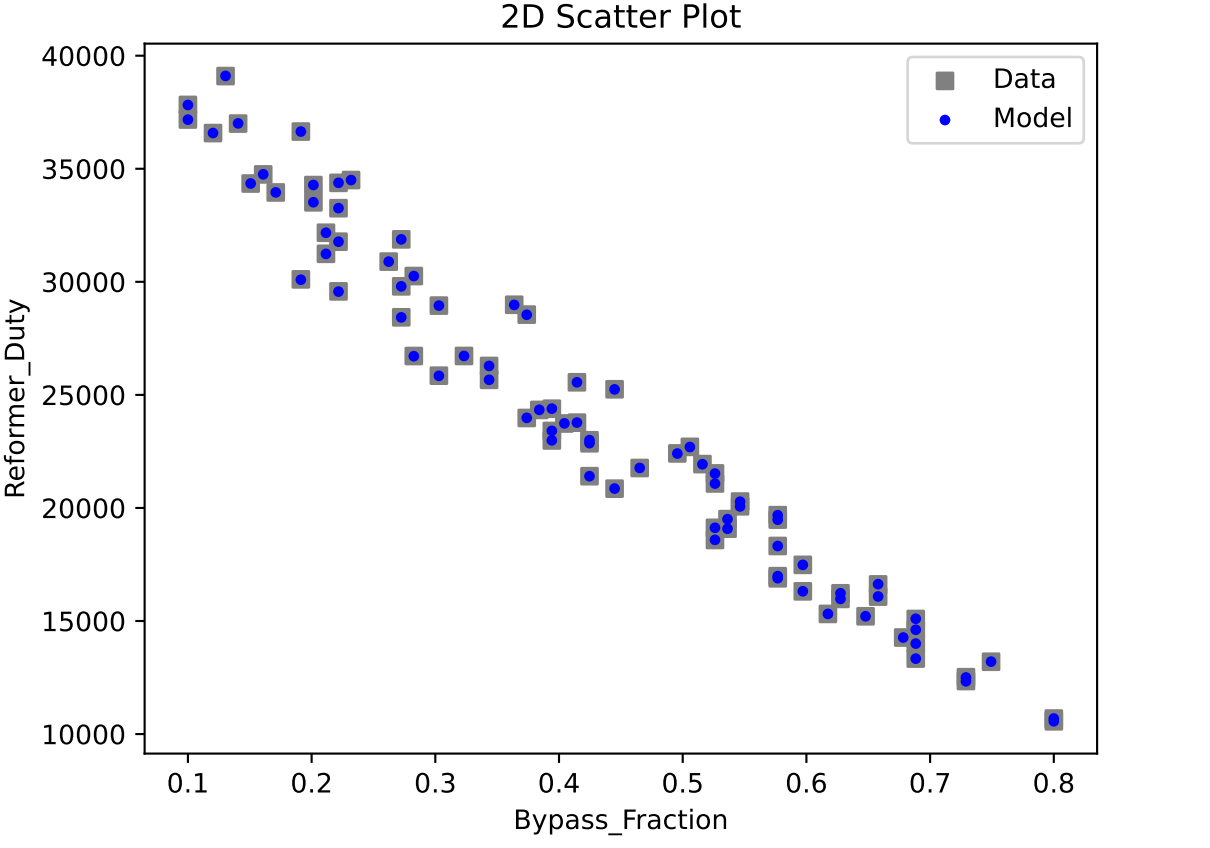
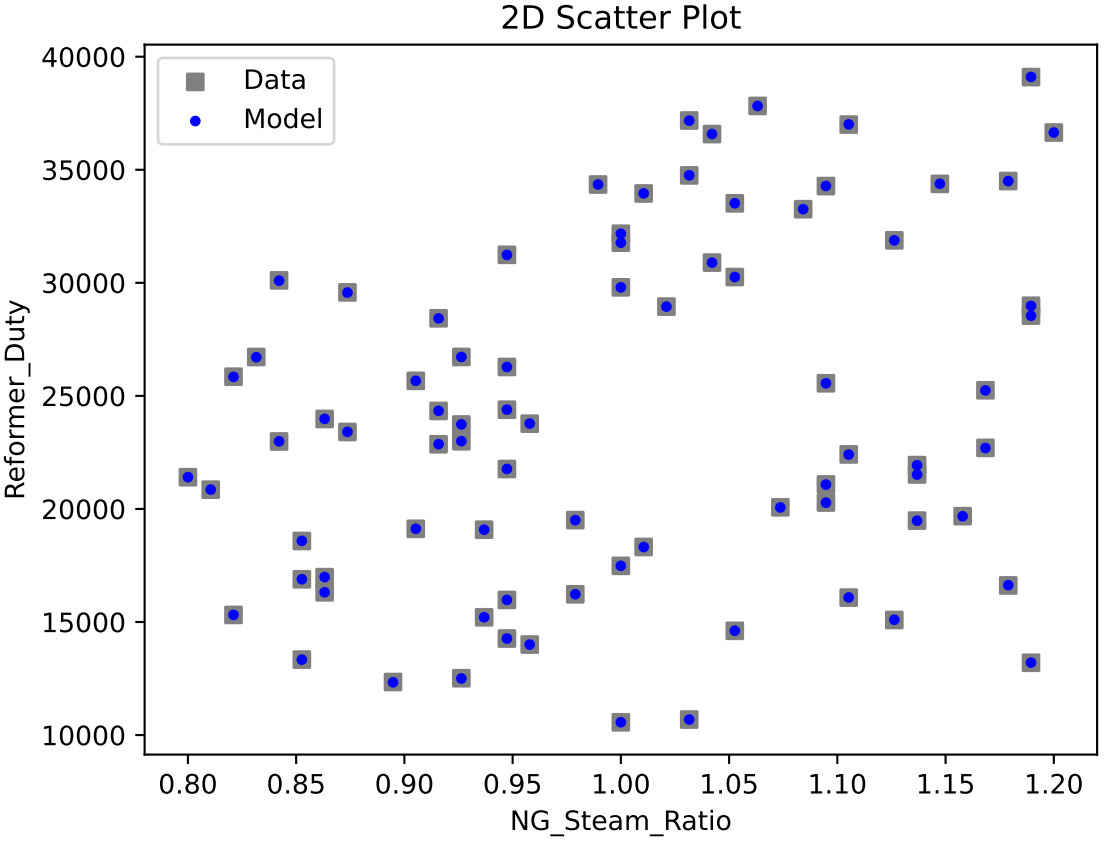
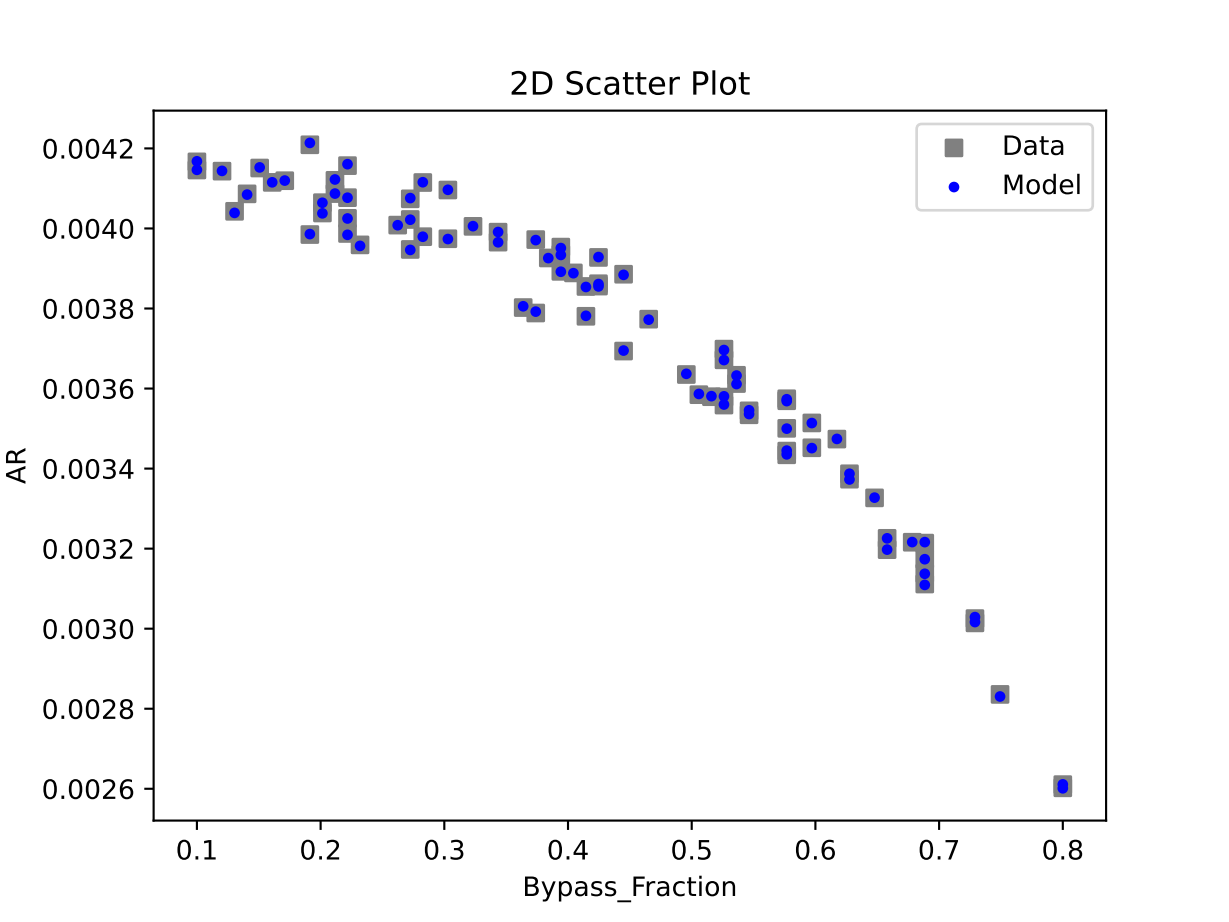
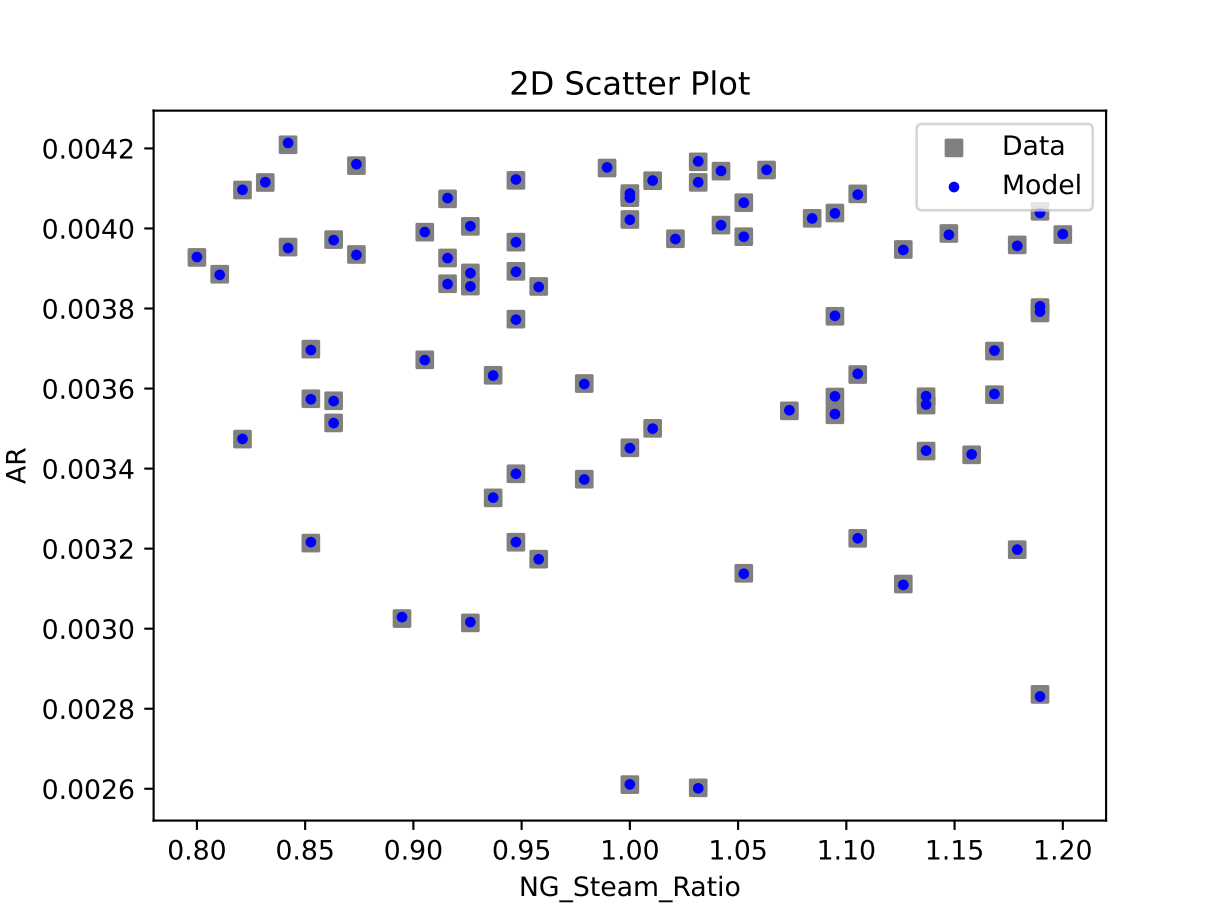
1.2
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
Reformer_Duty
Bypass_Fraction
40000
35000
30000
25000
20000
15000
10000
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


2D Scatter Plot
Data
Model
Reformer_Duty
NG_Steam_Ratio
40000
35000
30000
25000
20000
15000
10000
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
AR
Bypass_Fraction
0.0042
0.0040
0.0038
0.0036
0.0034
0.0032
0.0030
0.0028
0.0026
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


2D Scatter Plot
Data
Model
AR
NG_Steam_Ratio
0.0042
0.0040
0.0038
0.0036
0.0034
0.0032
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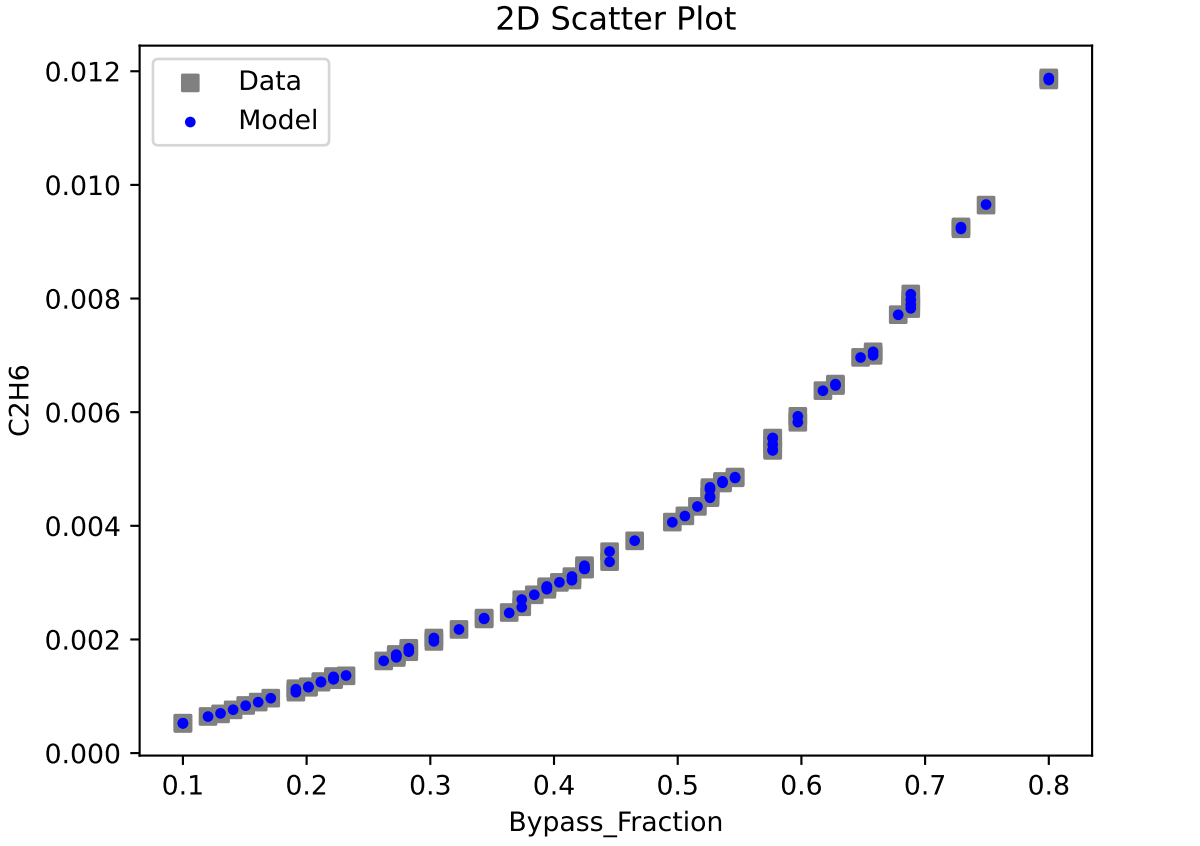
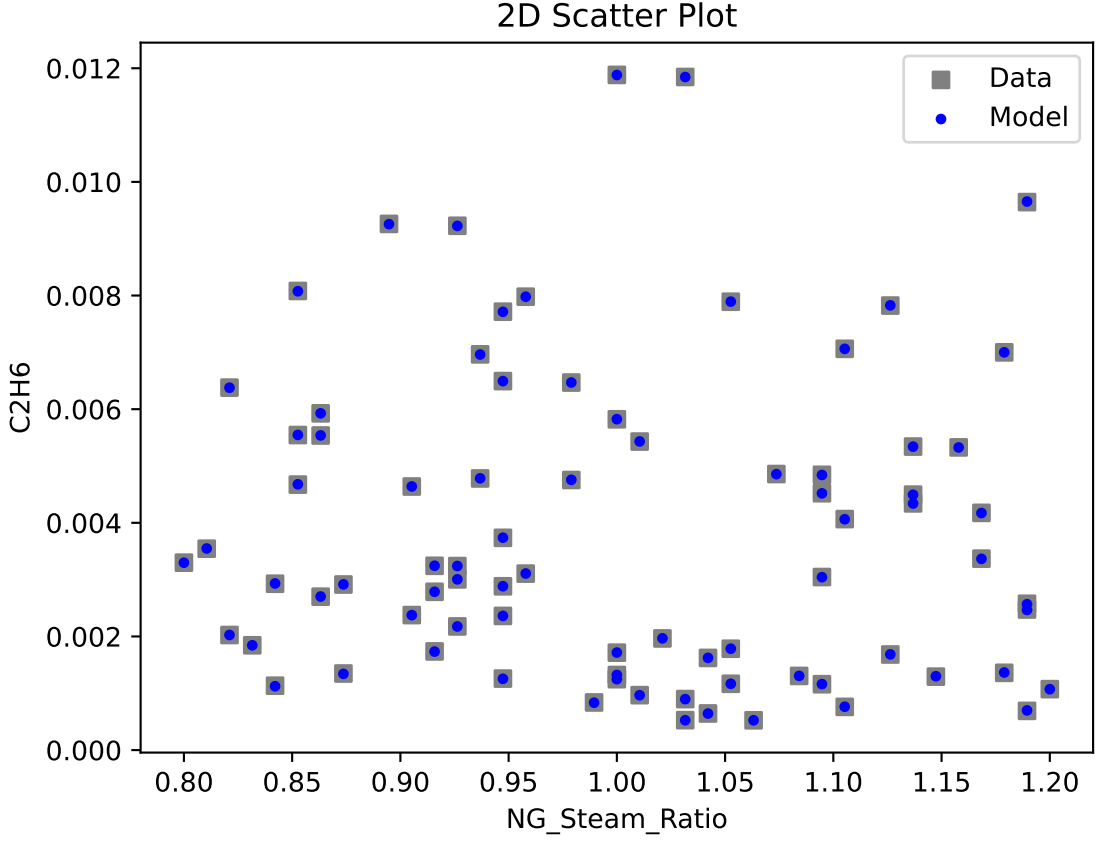
0.0028
0.0026
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
0.012
0.010
0.008
0.006
0.004
0.002
0.000
C2H6
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


2D Scatter Plot
Data
Model
C2H6
NG_Steam_Ratio
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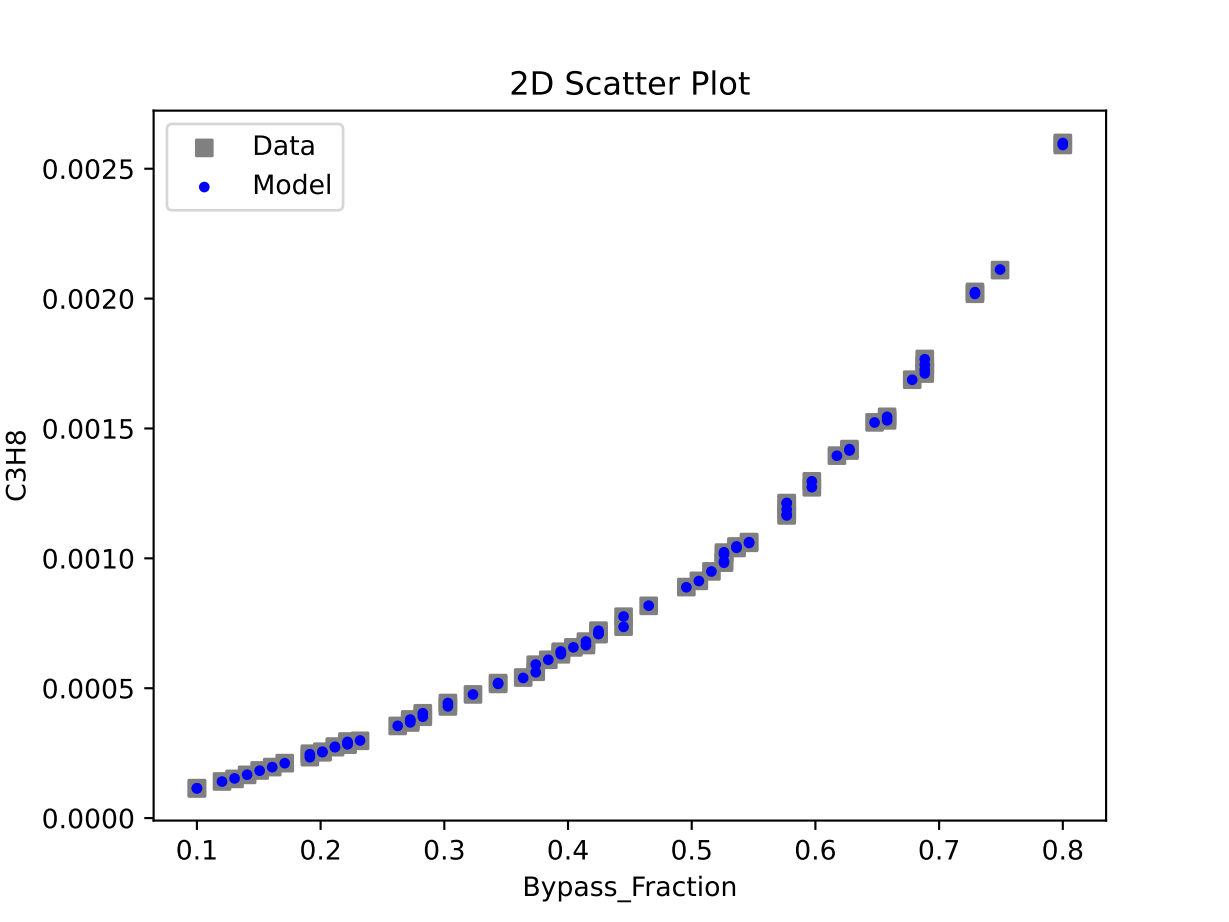
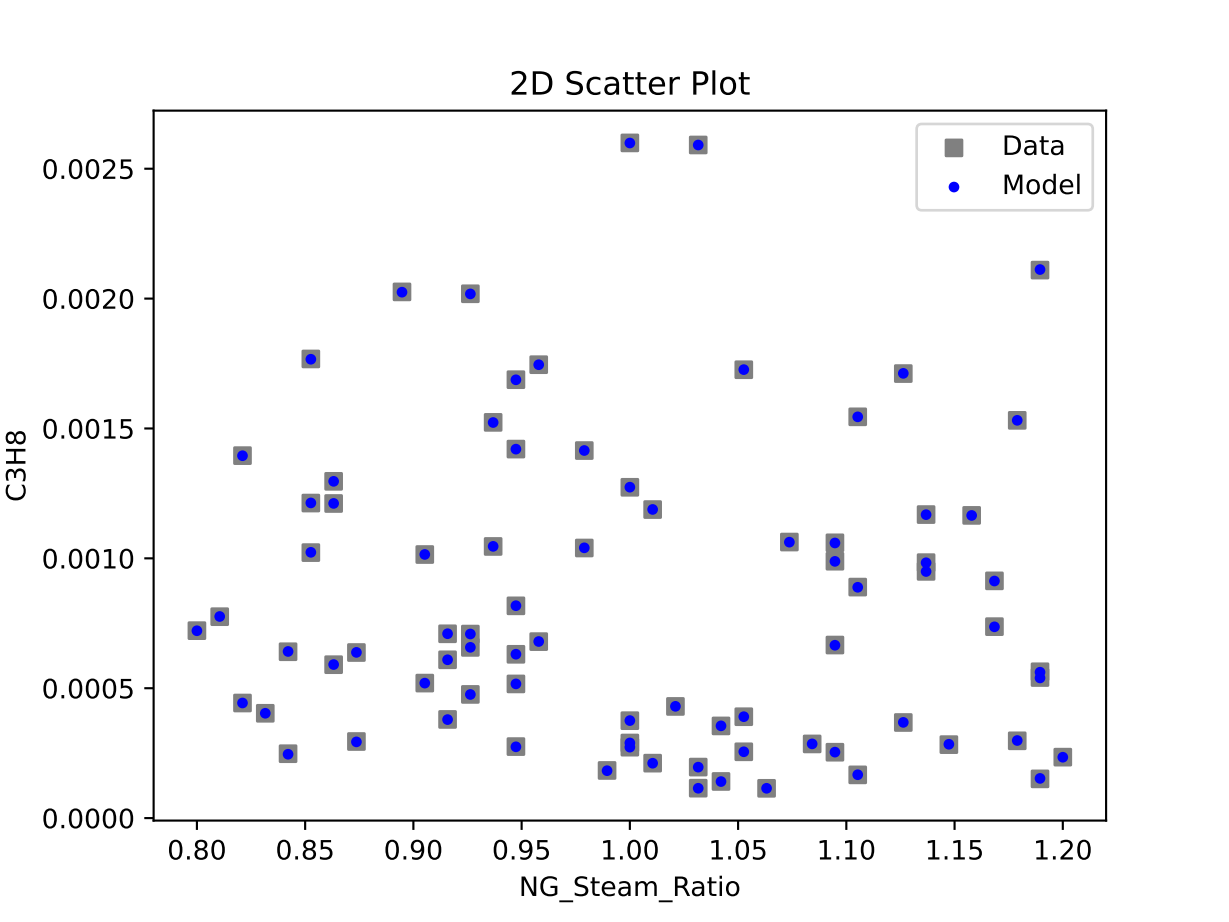
0.002
0.004
0.006
0.008
0.010
0.012
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
C3H8
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


2D Scatter Plot
Data
Model
C3H8
NG_Steam_Ratio
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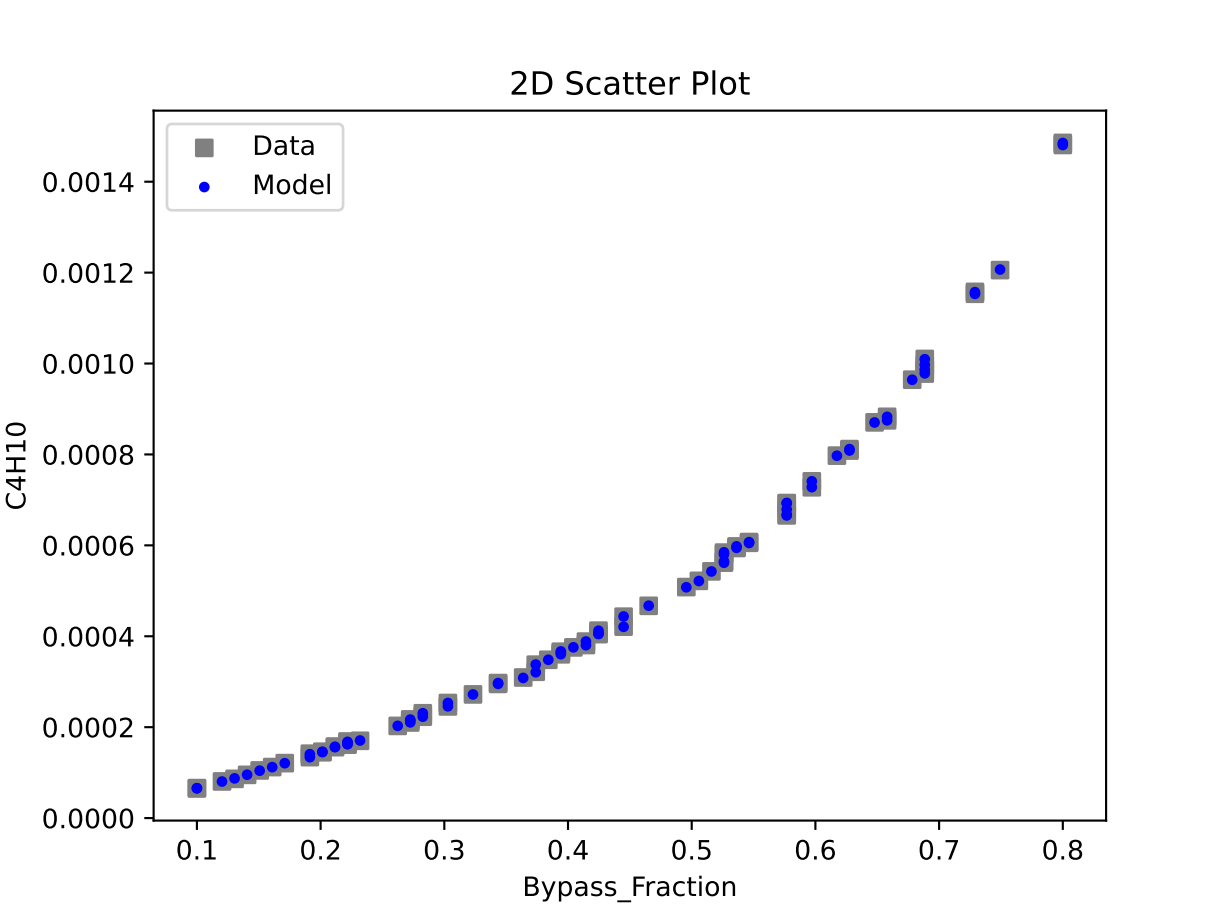
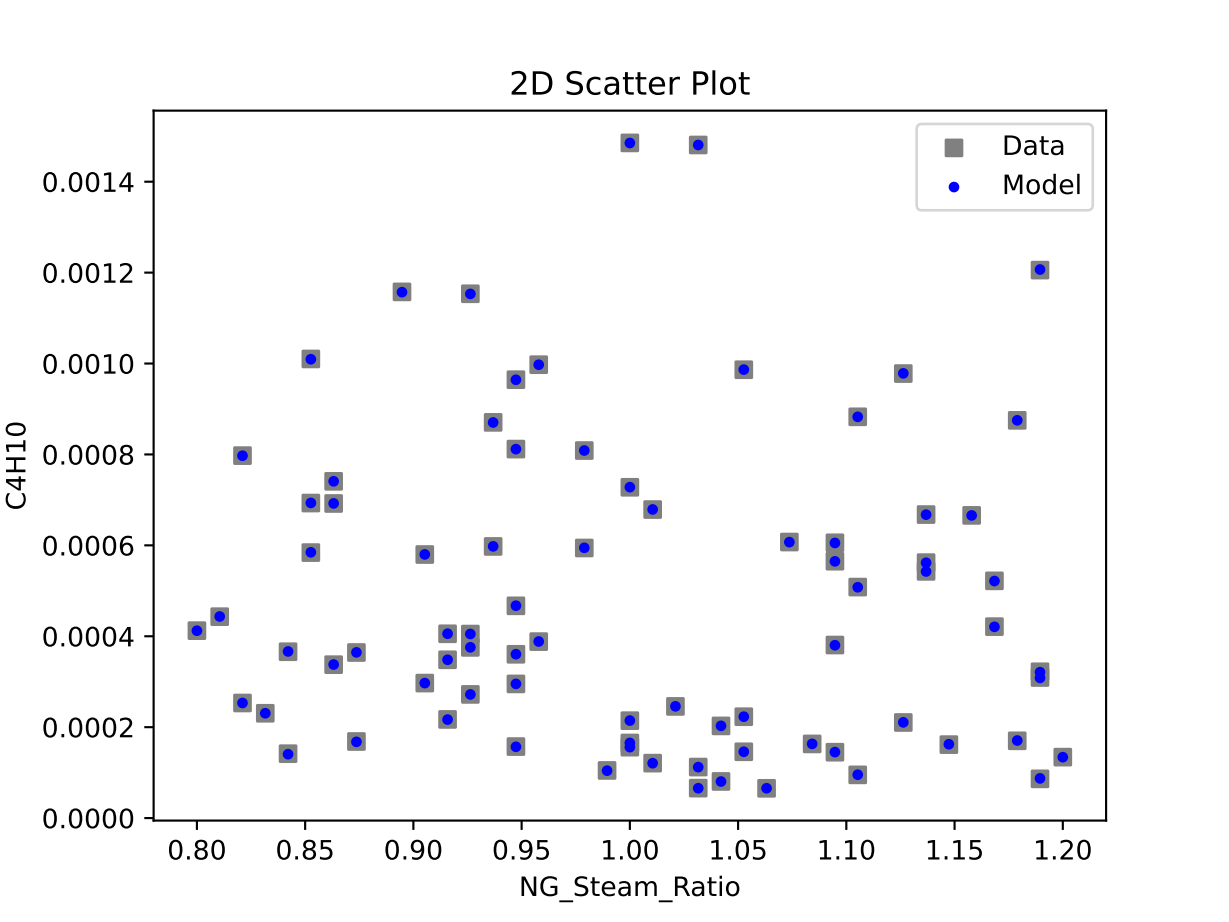
0.0005
0.0010
0.0015
0.0020
0.0025
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
C4H10
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


2D Scatter Plot
Data
Model
C4H10
NG_Steam_Ratio
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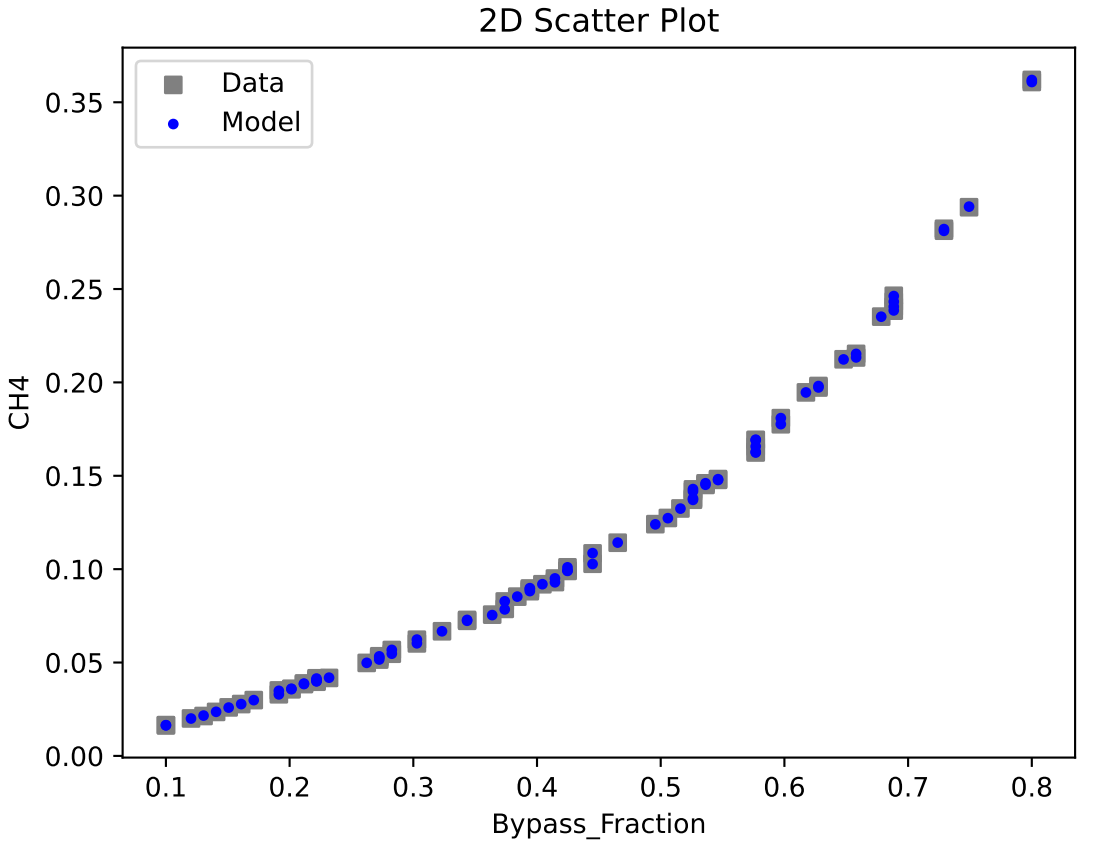
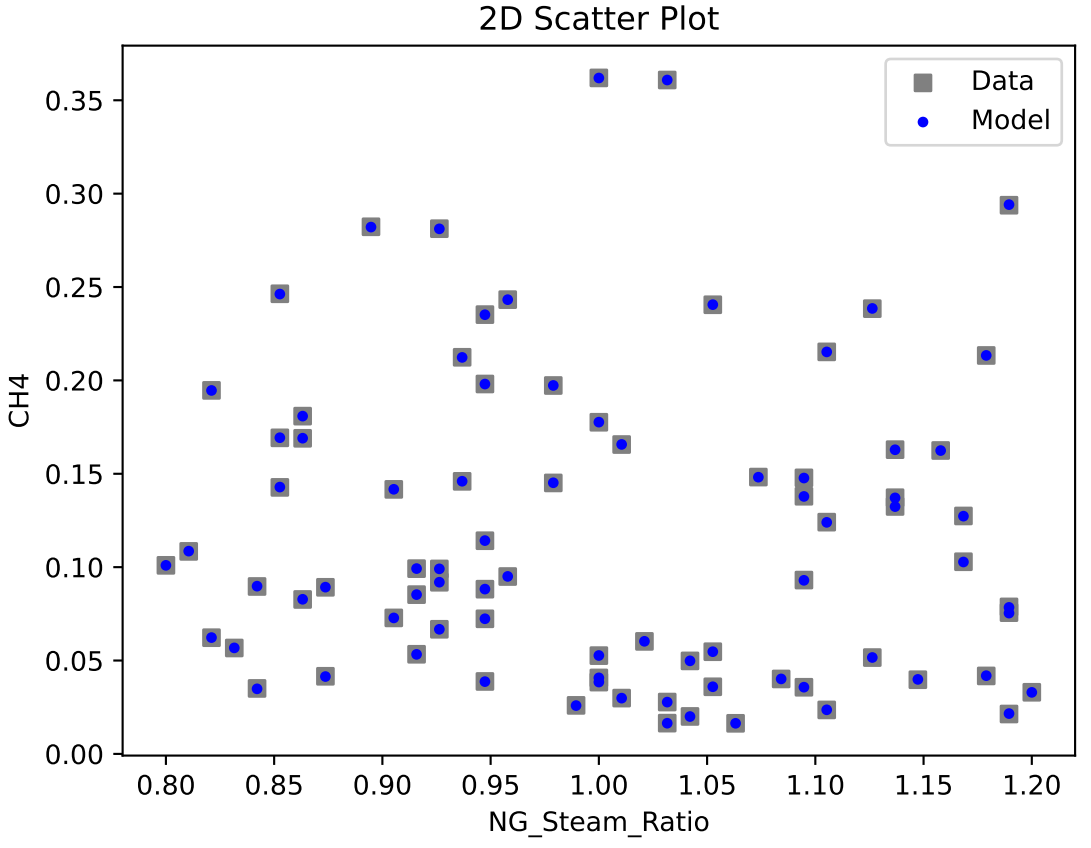
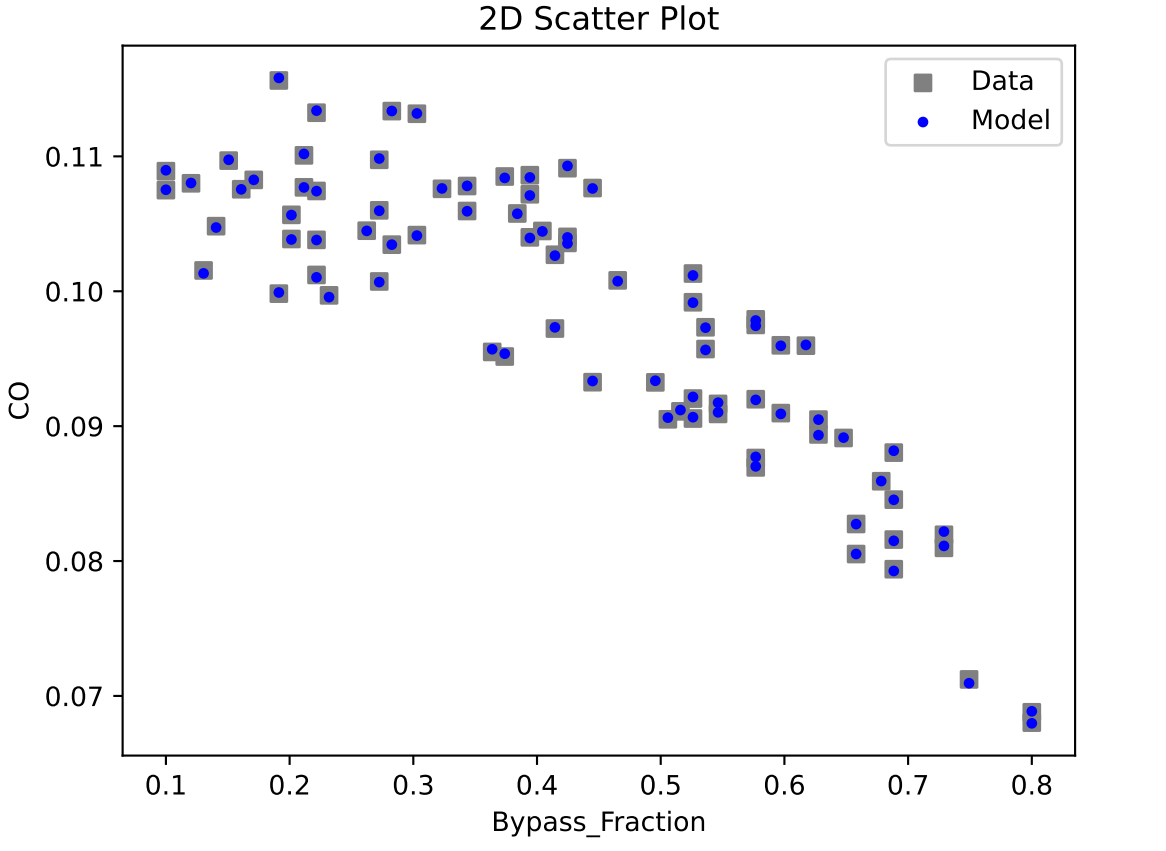
0.0002
0.0004
0.0006
0.0008
0.0010
0.0012
0.0014
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
CH4
Bypass_Fraction
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


2D Scatter Plot
Data
Model
CH4
NG_Steam_Ratio
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
CO
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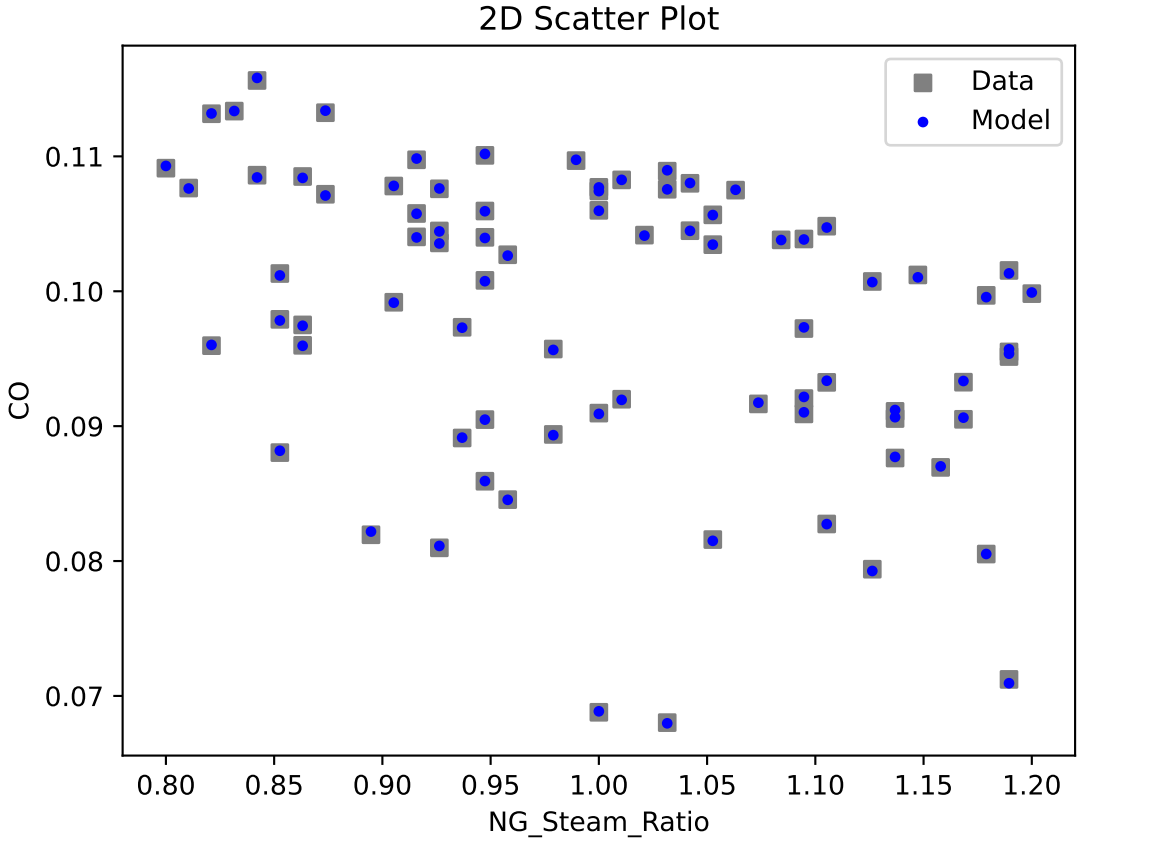
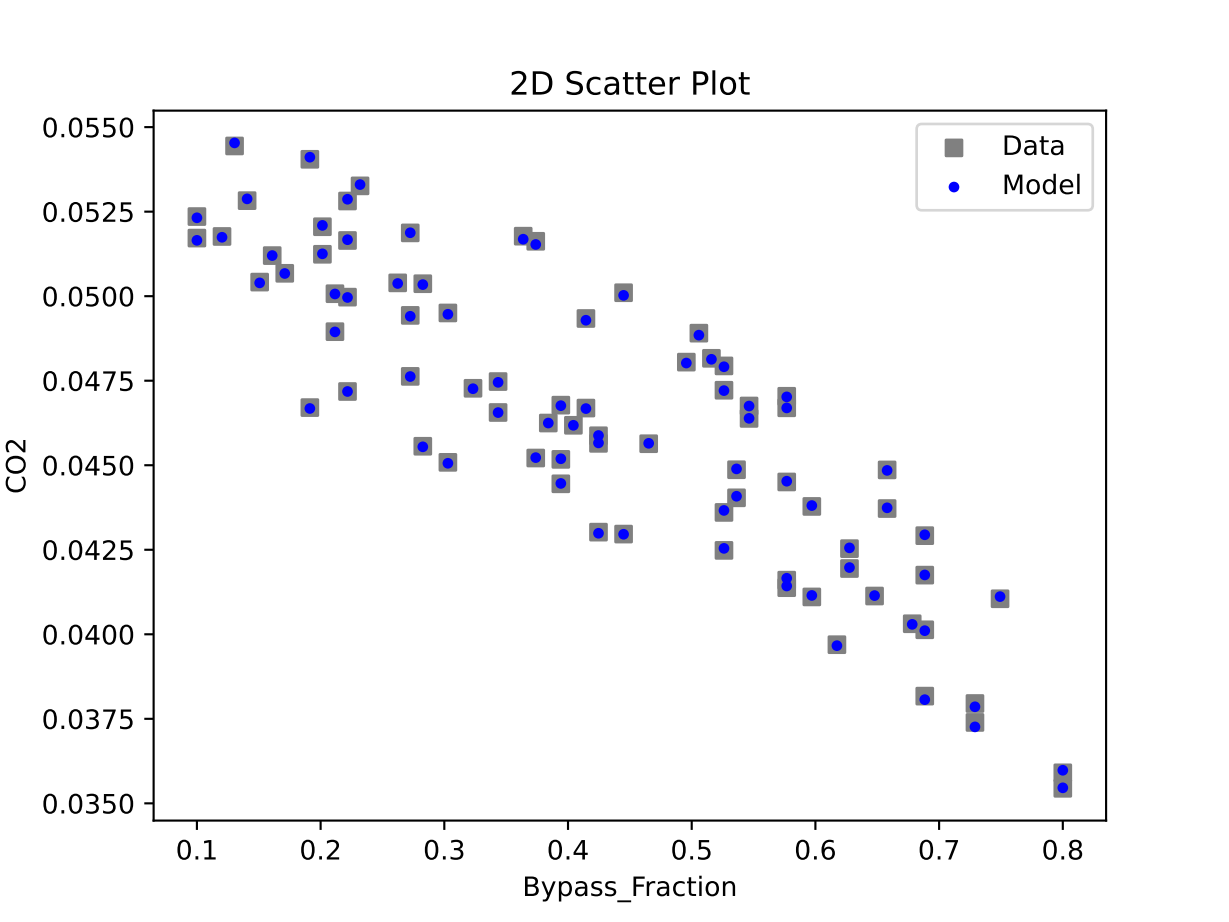
0.10
0.09
0.08
0.07
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


2D Scatter Plot
Data
Model
CO
NG_Steam_Ratio
0.11
0.10
0.09
0.08
0.07
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
0.0550
0.0525
0.0500
0.0475
0.0450
0.0425
0.0400
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0.0350
0.1
0.2
0.3
0.4
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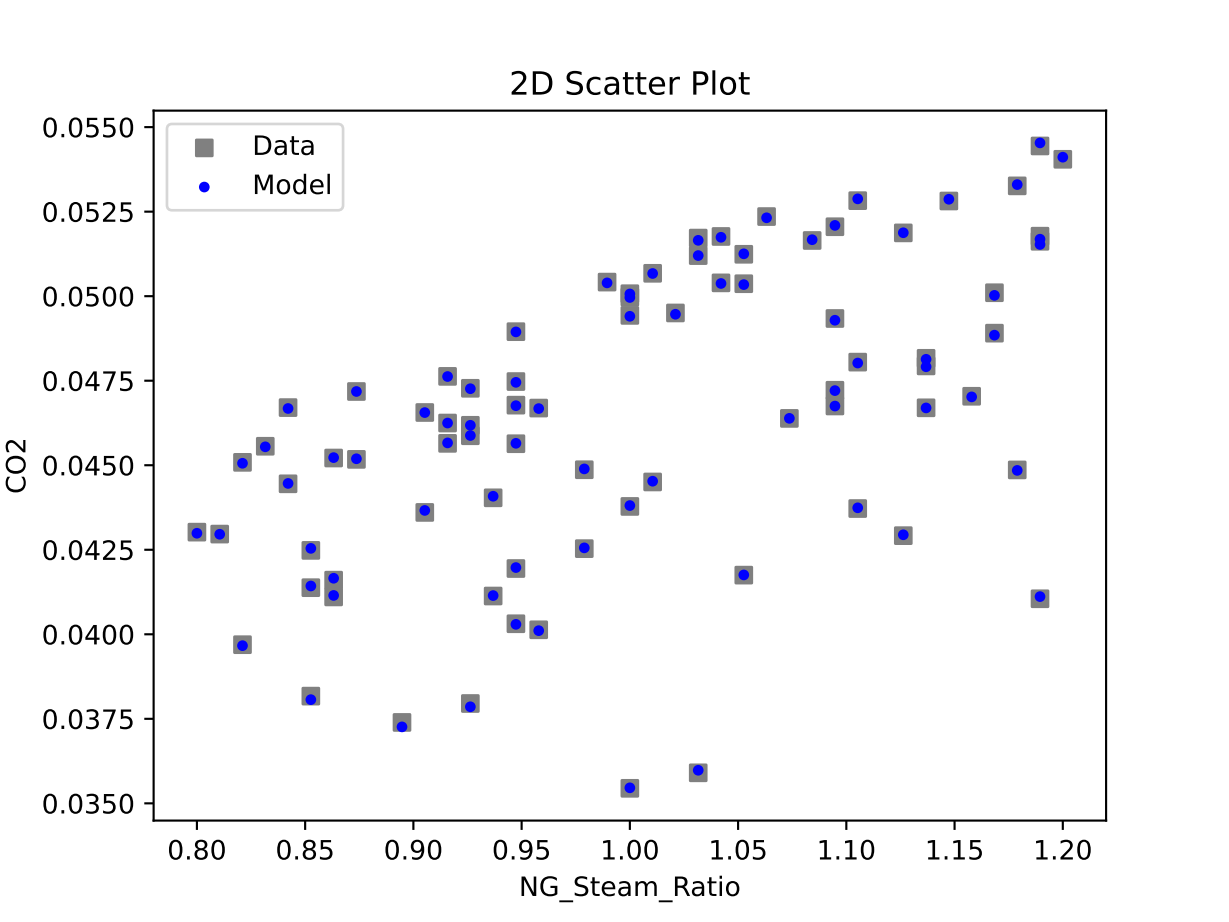
0.7
0.8


2D Scatter Plot
Data
Model
CO2
NG_Steam_Ratio
0.0550
0.0525
0.0500
0.0475
0.0450
0.0425
0.0400
0.0375
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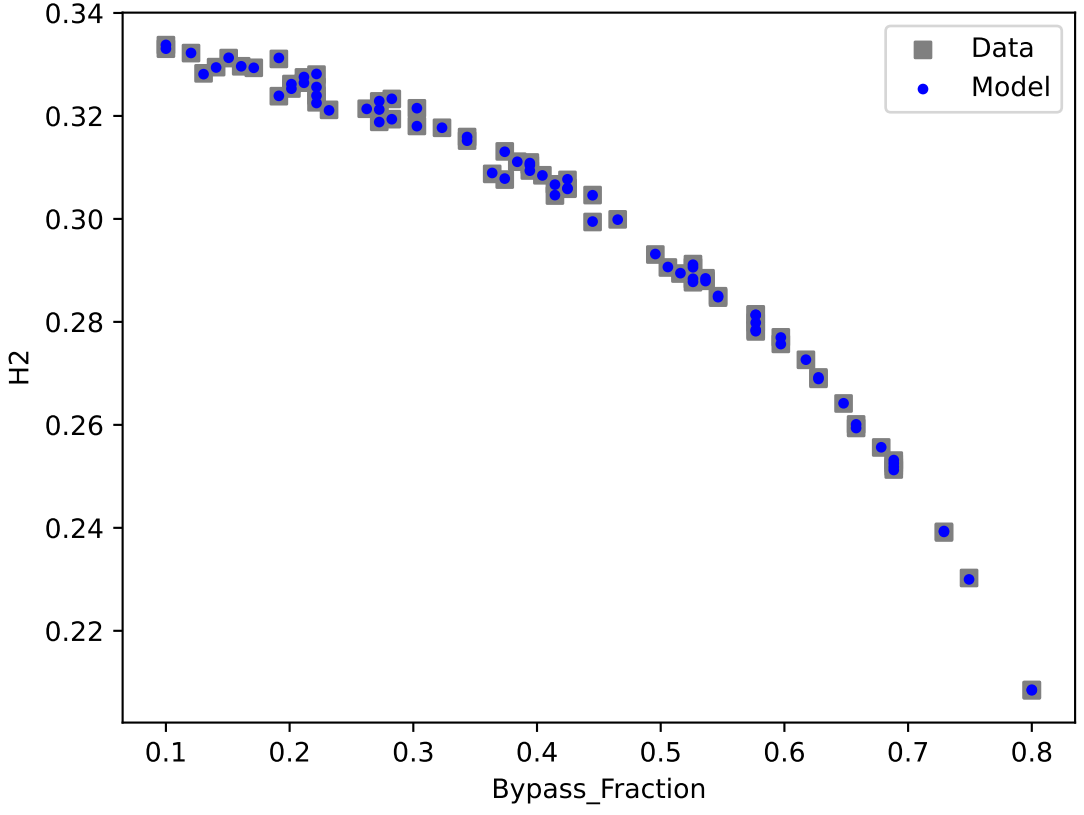
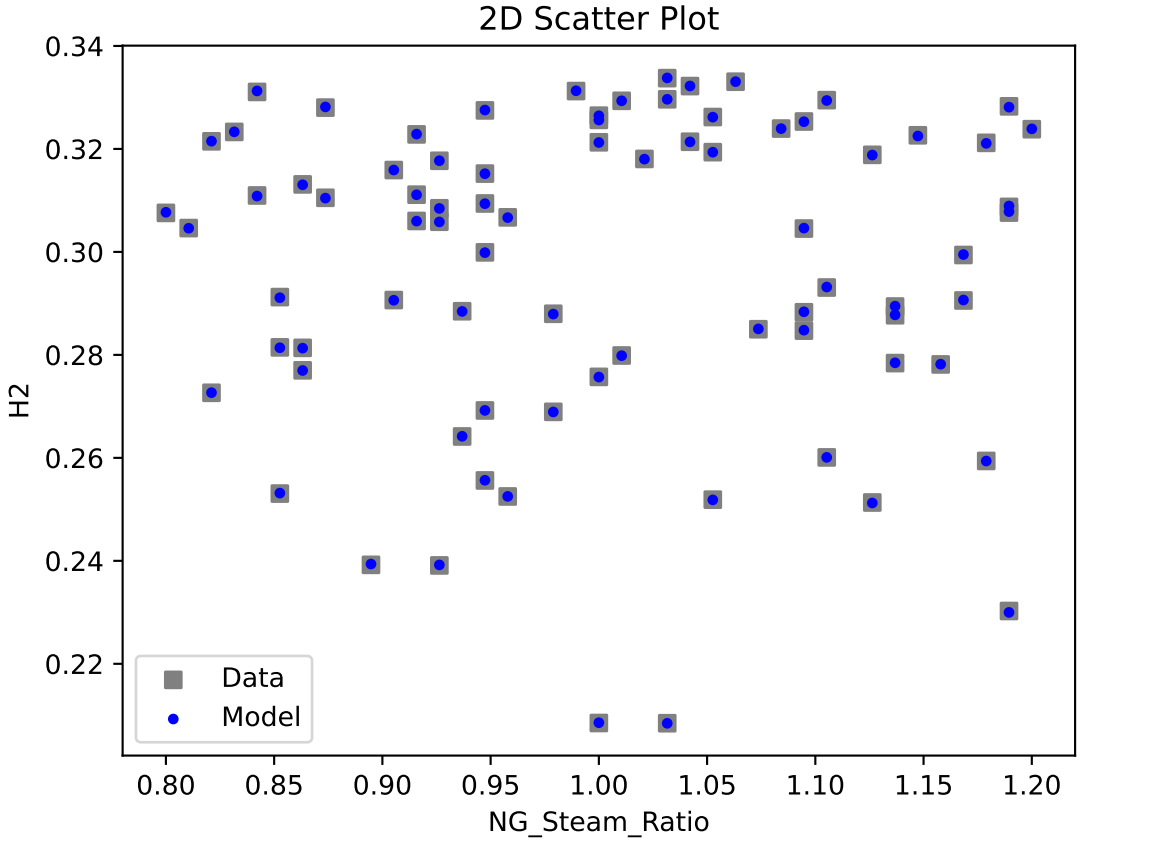
0.80
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20


2D Scatter Plot
Data
Model
H2
Bypass_Fraction
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


2D Scatter Plot
0.34
0.32
0.30
0.28
0.26
0.24
0.22
H2
Data
Model
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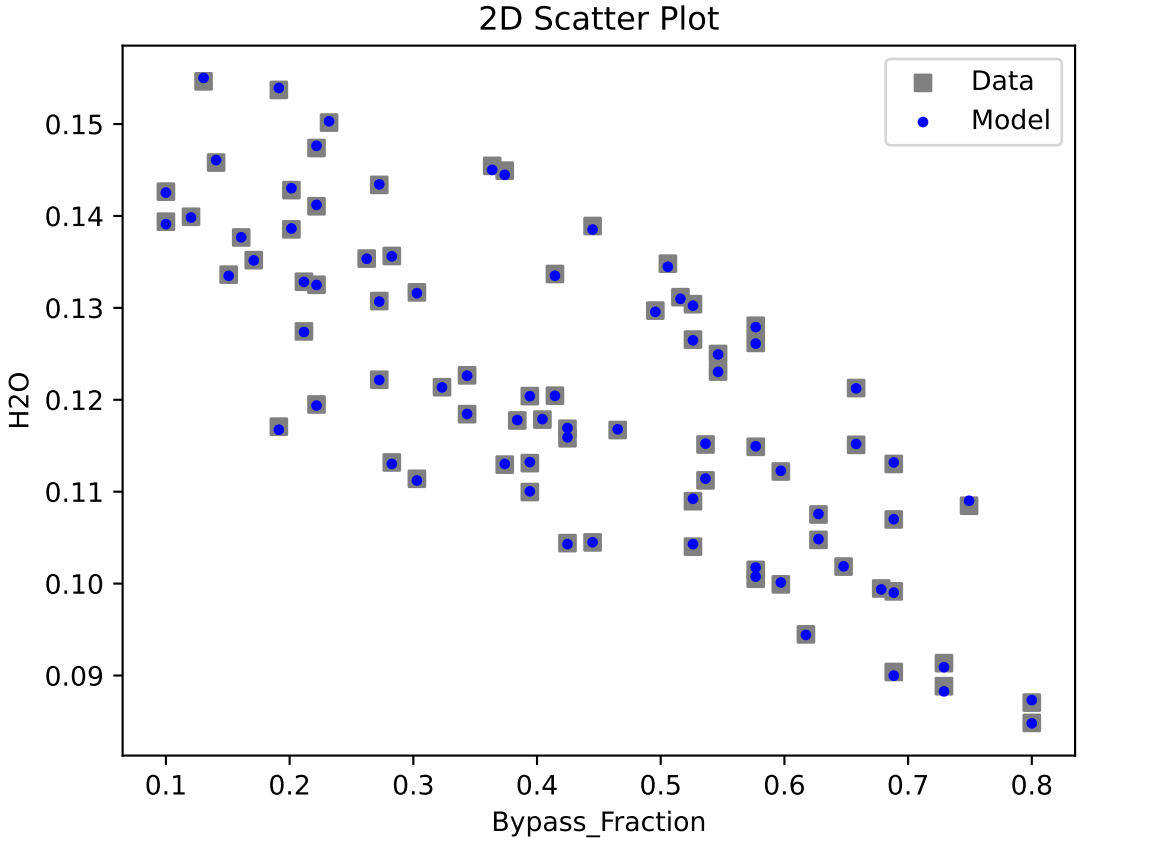
0.85
0.90
0.95
1.00
1.05
1.10
1.15
1.20
NG_Steam_Ratio


2D Scatter Plot
Data
Model
H2O
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0.14
0.13
0.12
0.11
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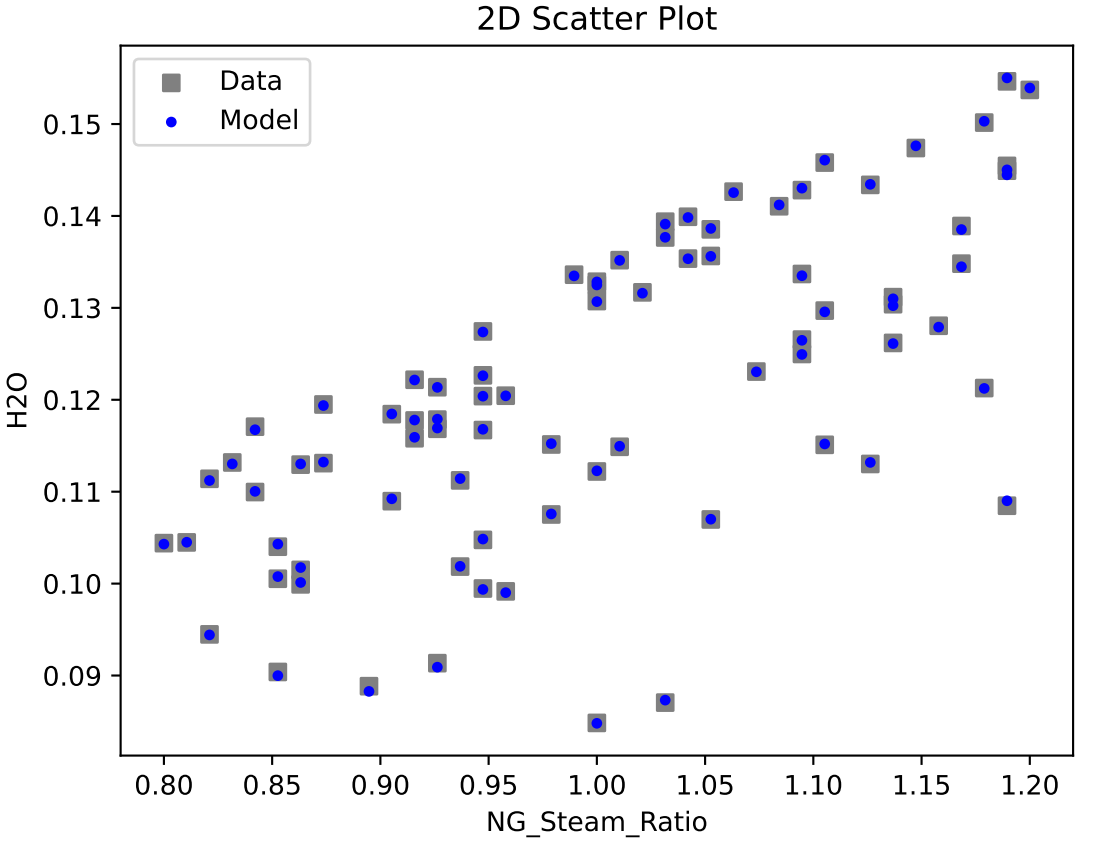
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


2D Scatter Plot
Data
Model
H2O
NG_Steam_Ratio
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0.10
0.11
0.12
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0.90
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1.00
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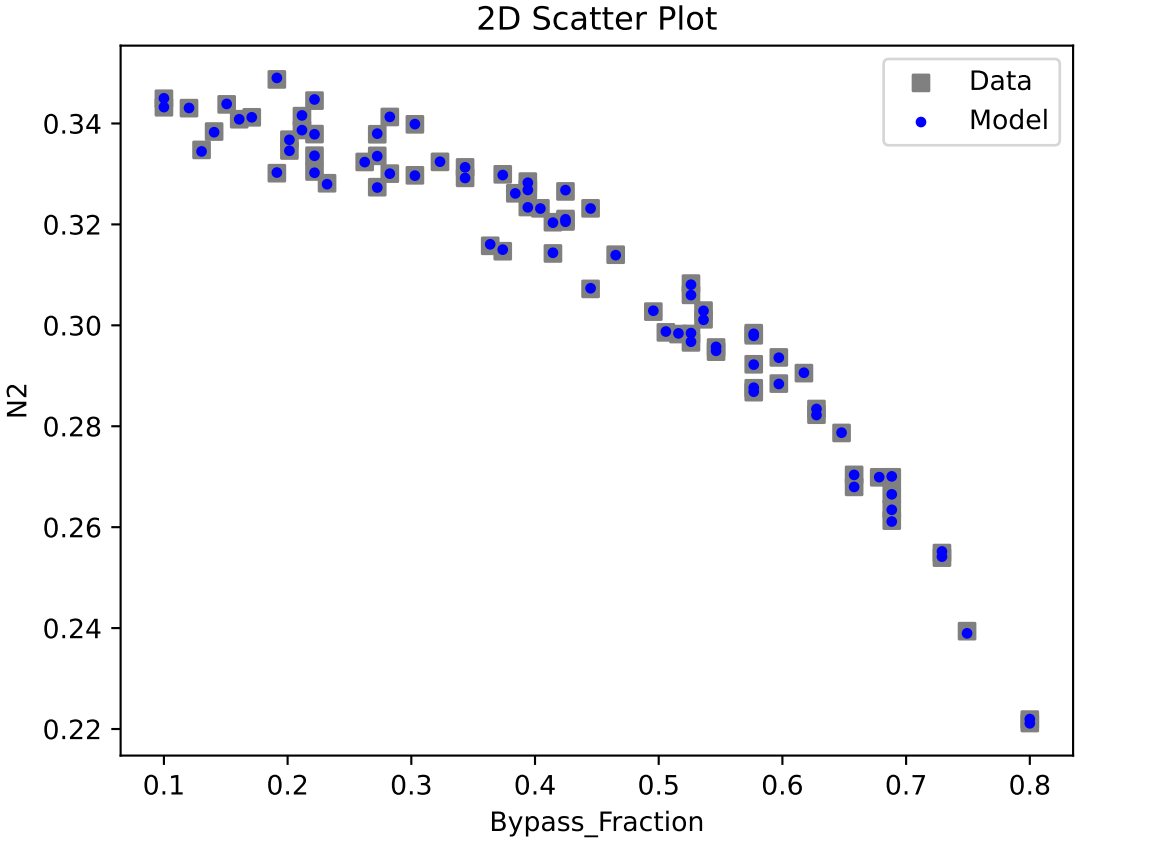
1.15
1.20


2D Scatter Plot
Data
Model
N2
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0.30
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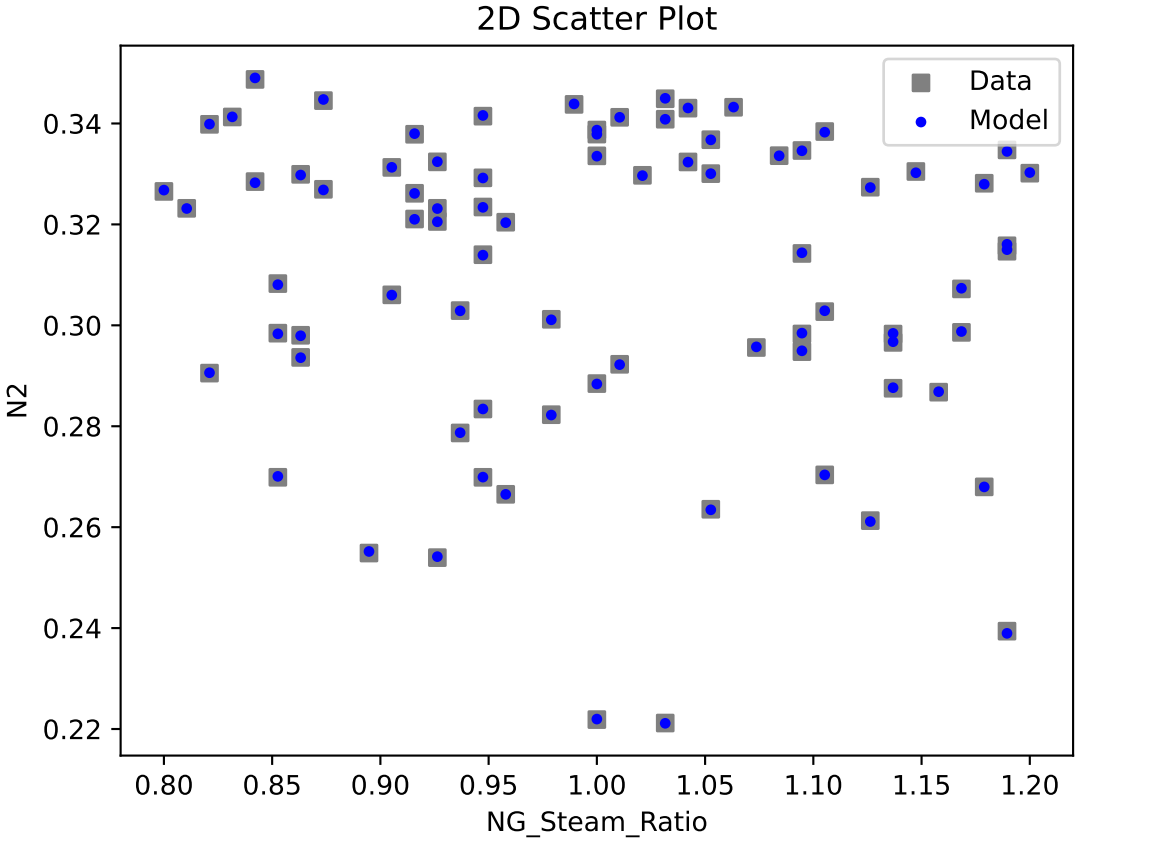
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Bypass_Fraction


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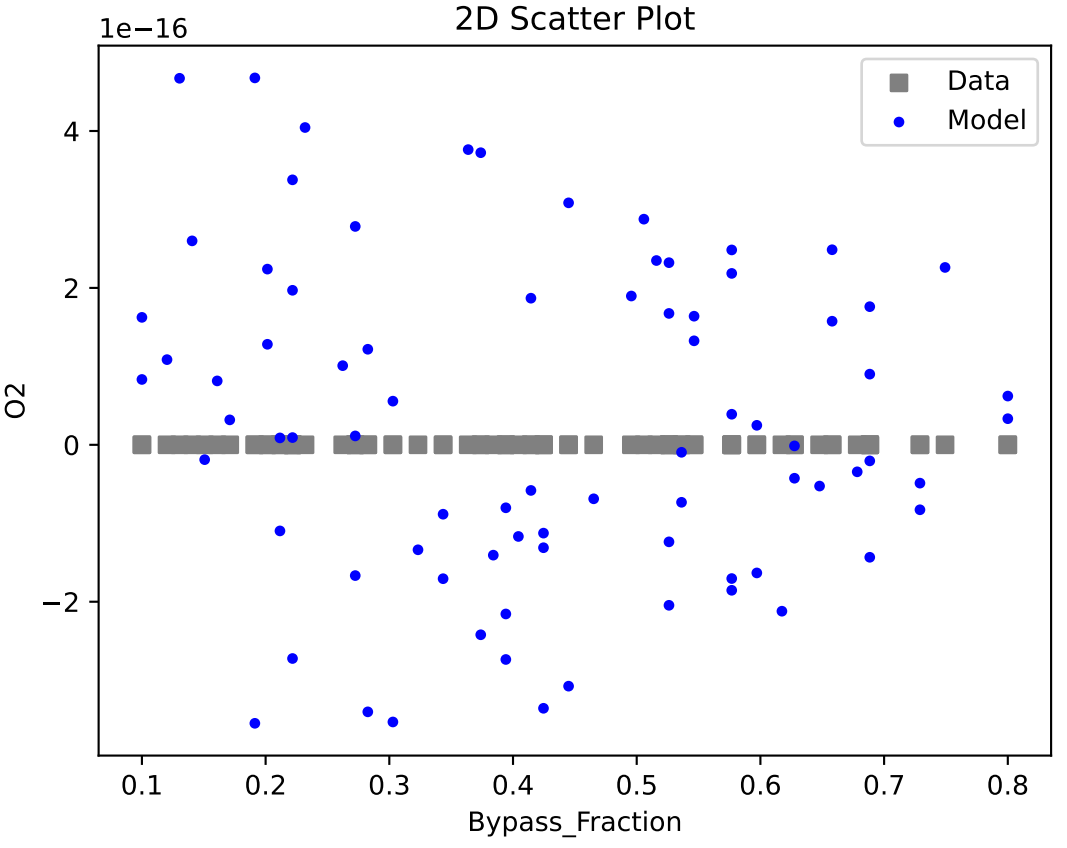
1.15
1.20


2D Scatter Plot
1e−16
Data
Model
4
2
0
−2
O2
0.1
0.2
0.3
0.4
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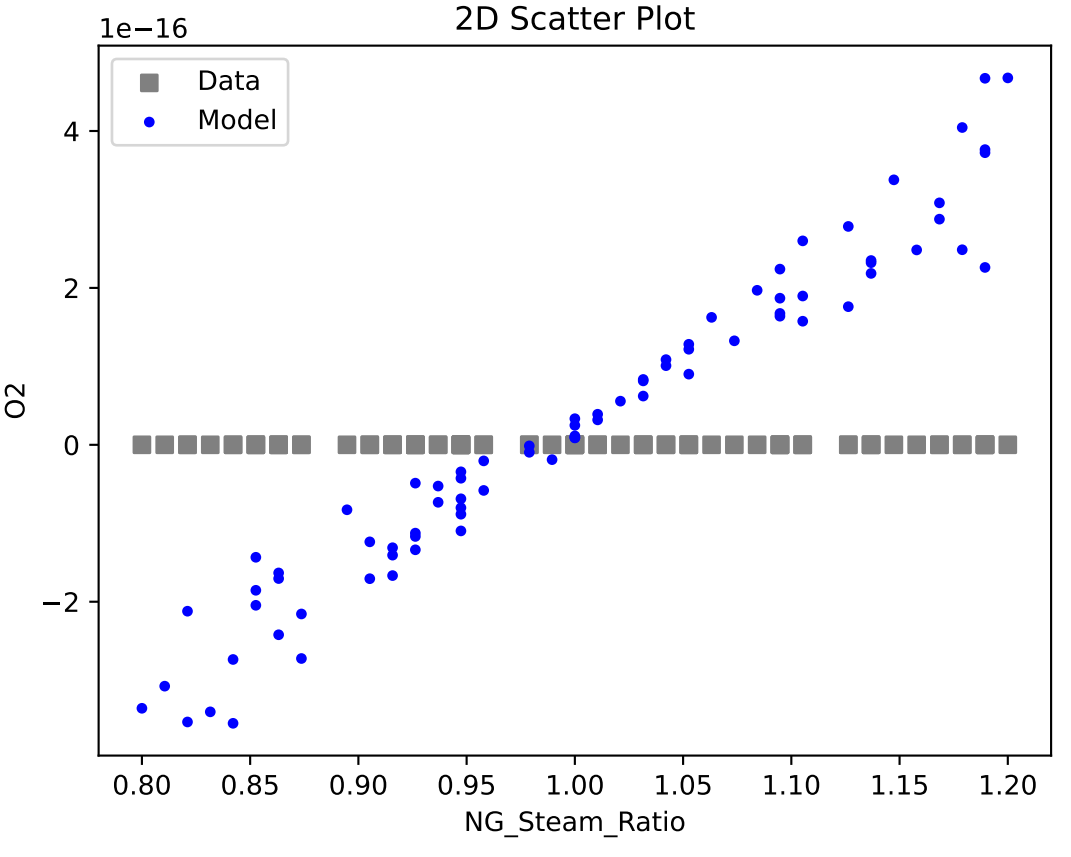
0.6
0.7
0.8
Bypass_Fraction


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