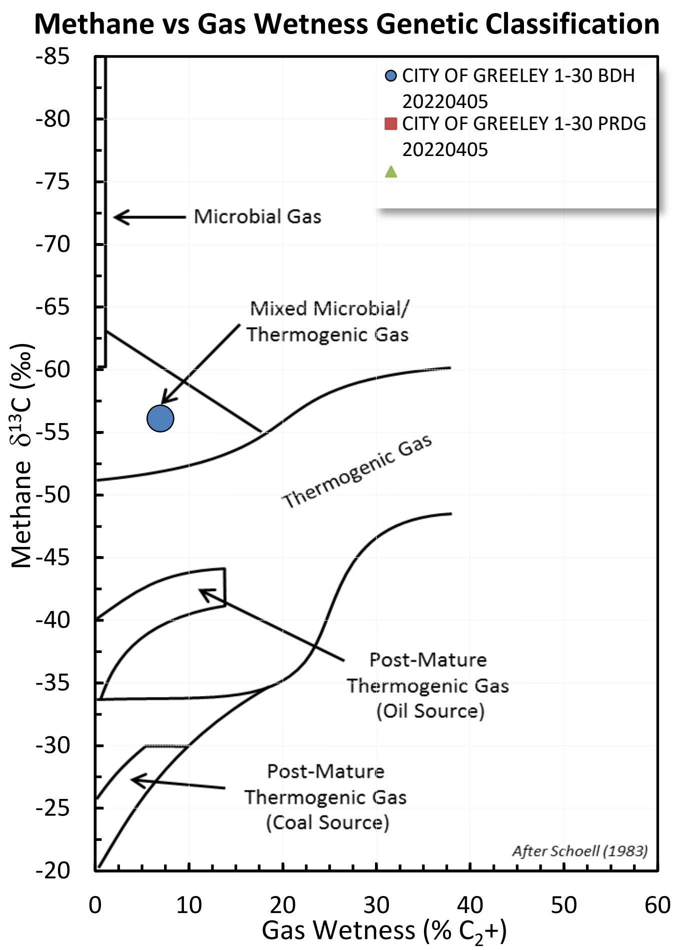
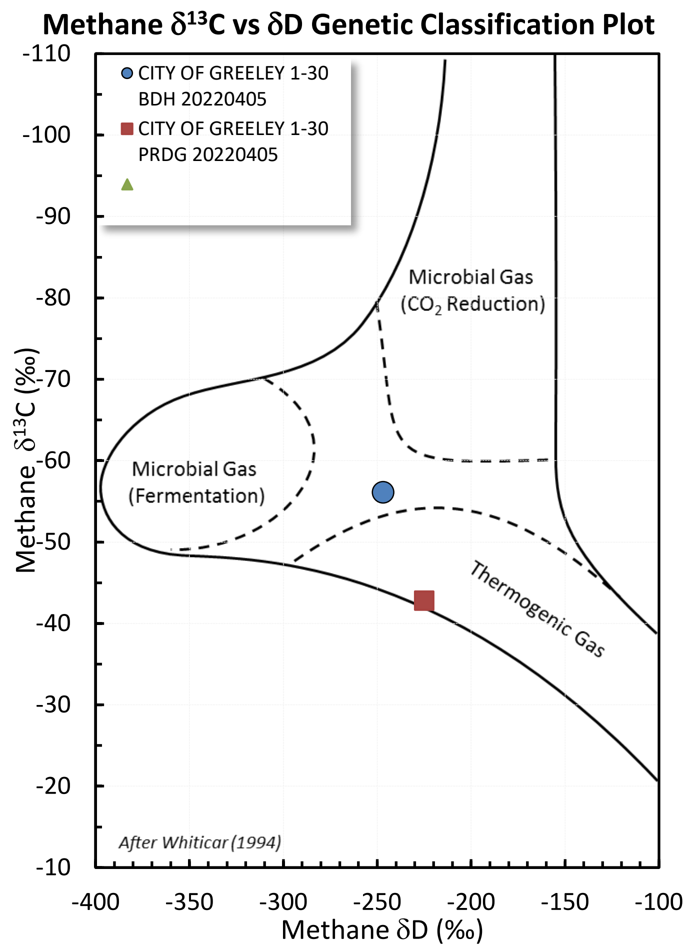
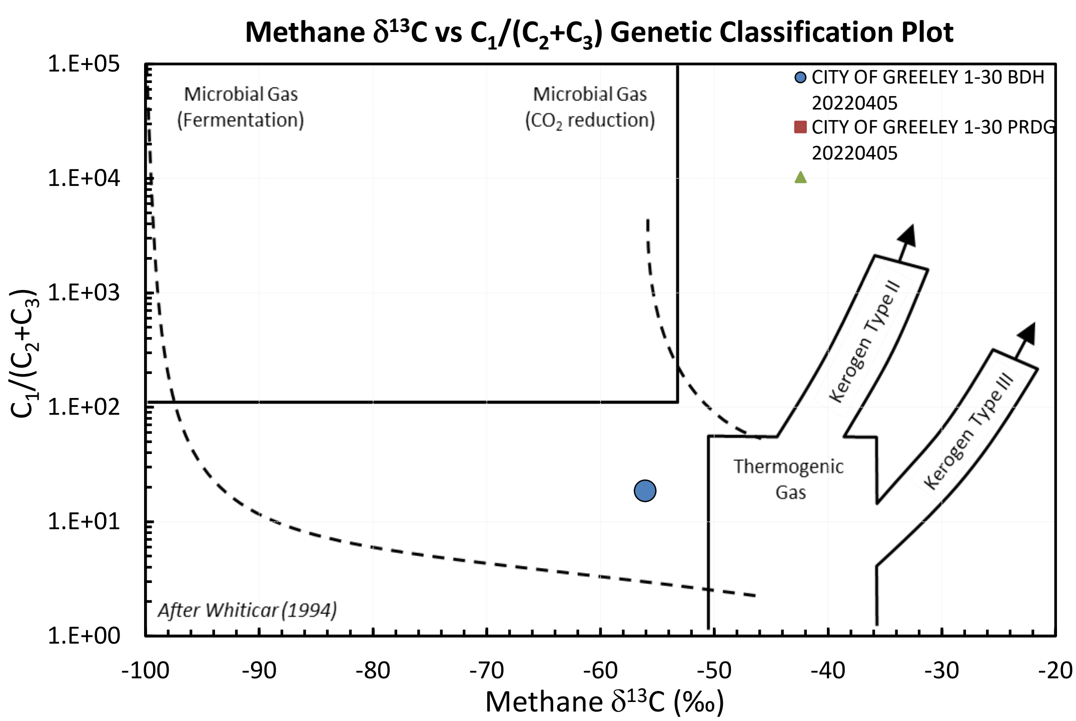
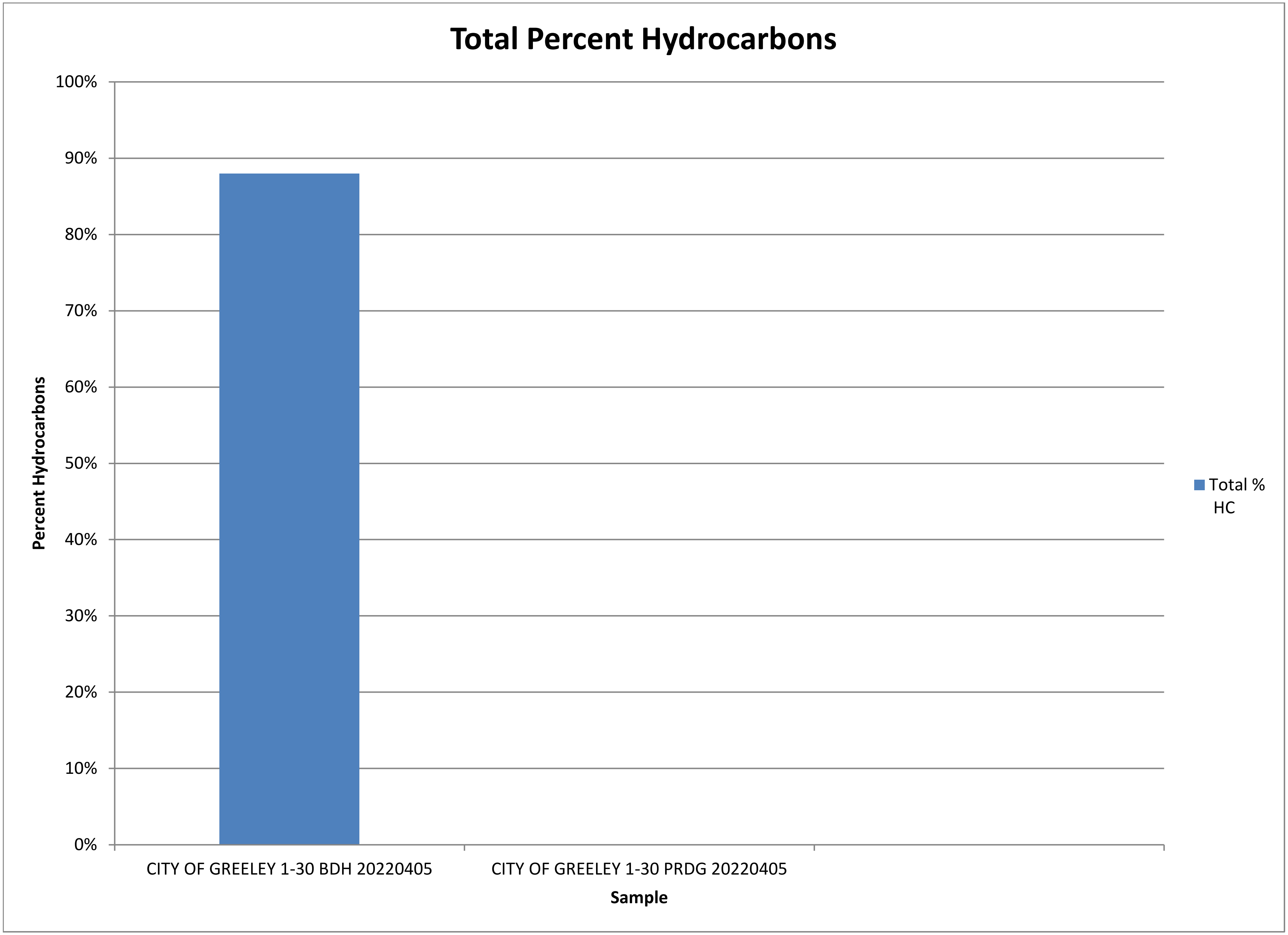
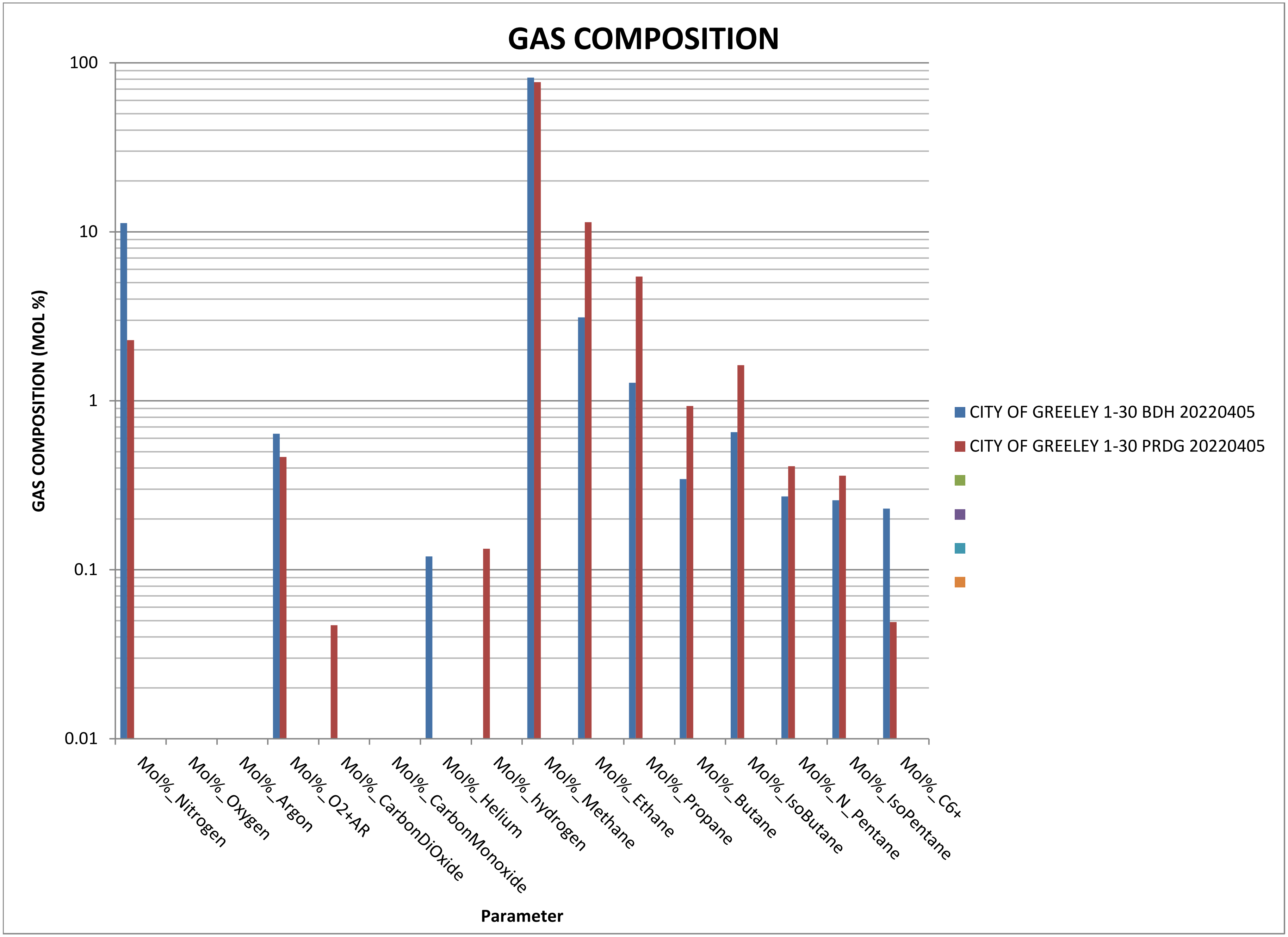
Stable Isotope Interpretive Plots

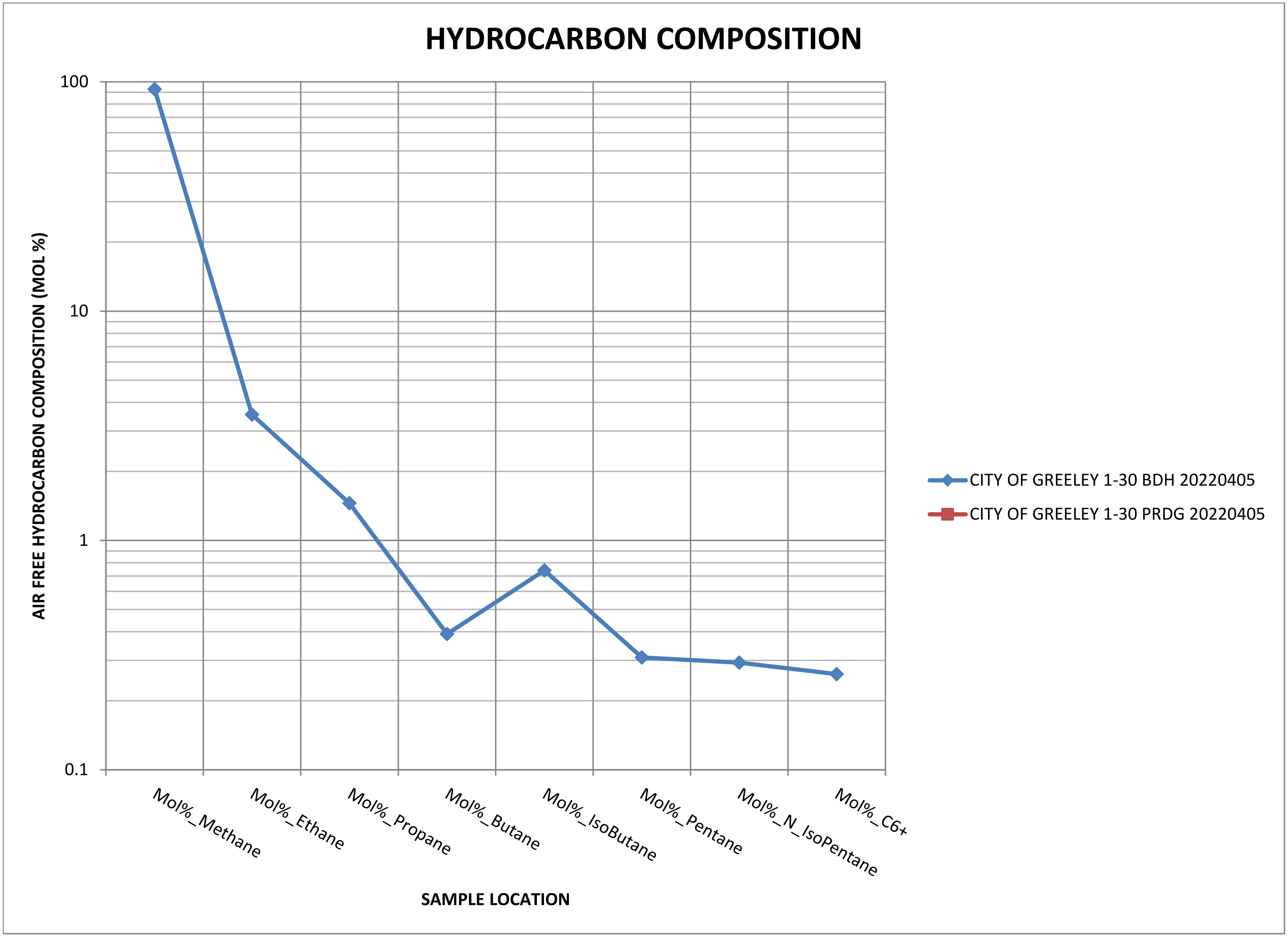


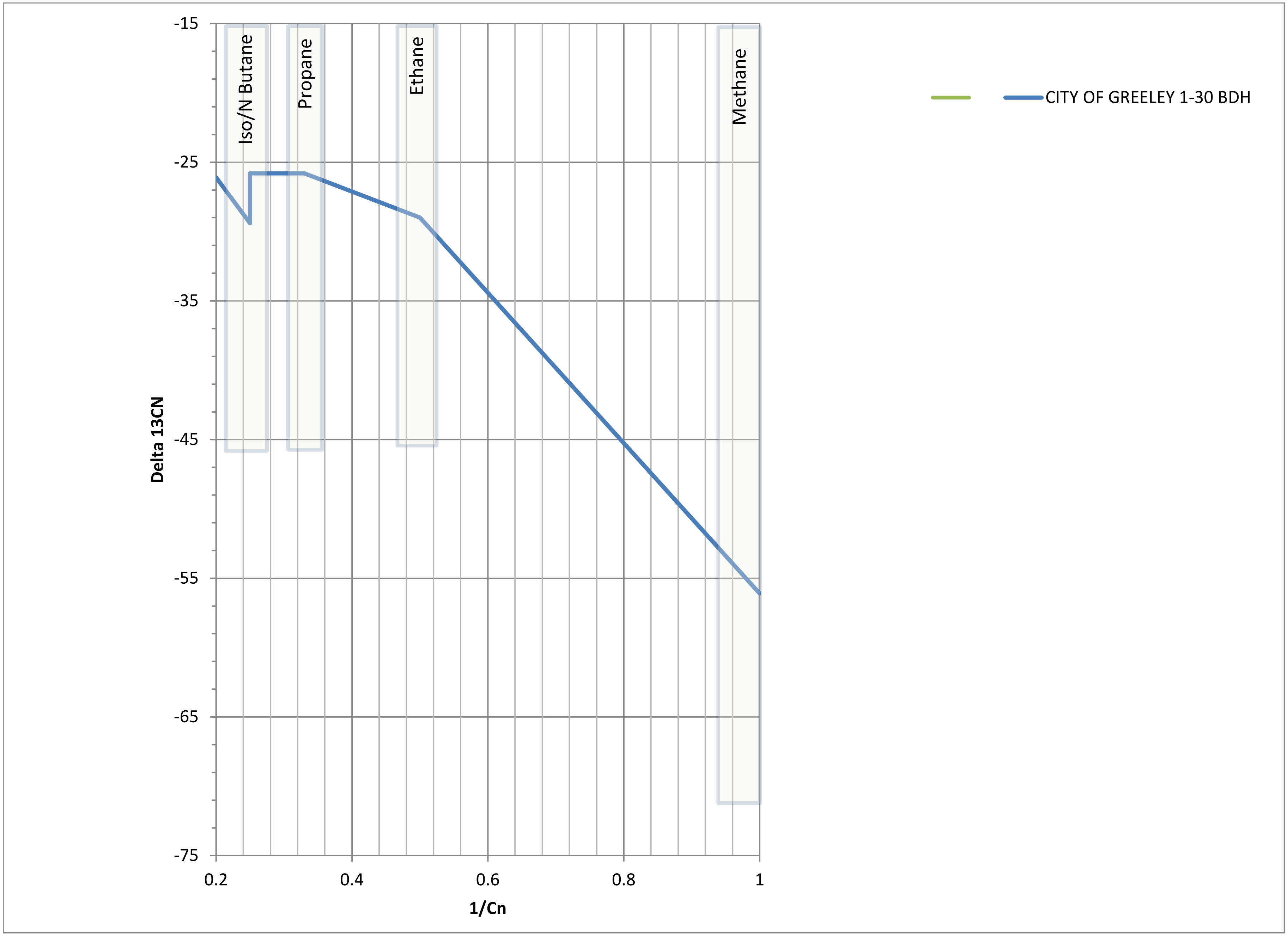




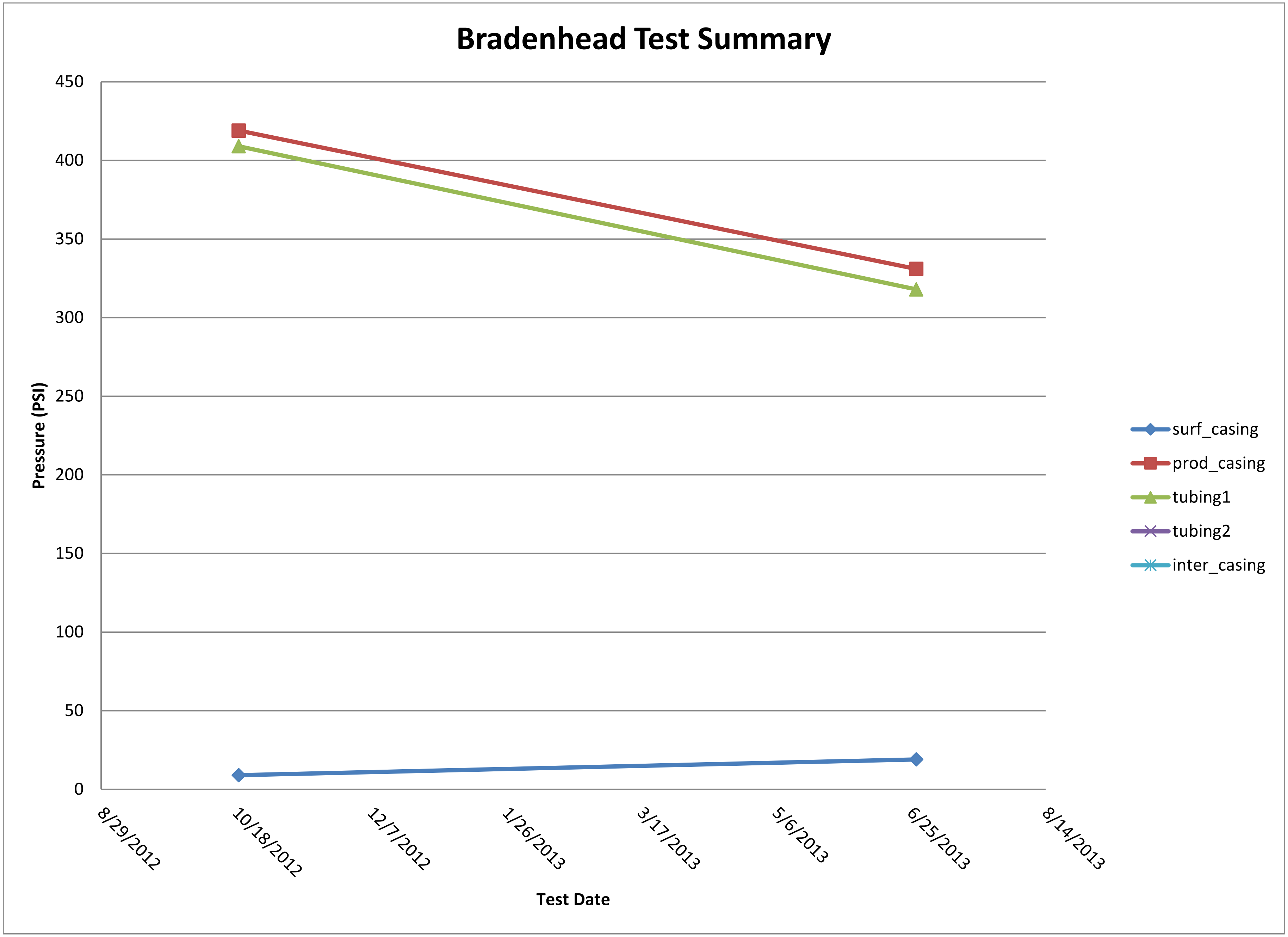

Total Percent Hydrocarbons
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent Hydrocarbons
Total % HC
CITY OF GREELEY 1-30 BDH 20220405
CITY OF GREELEY 1-30 PRDG 20220405
Sample

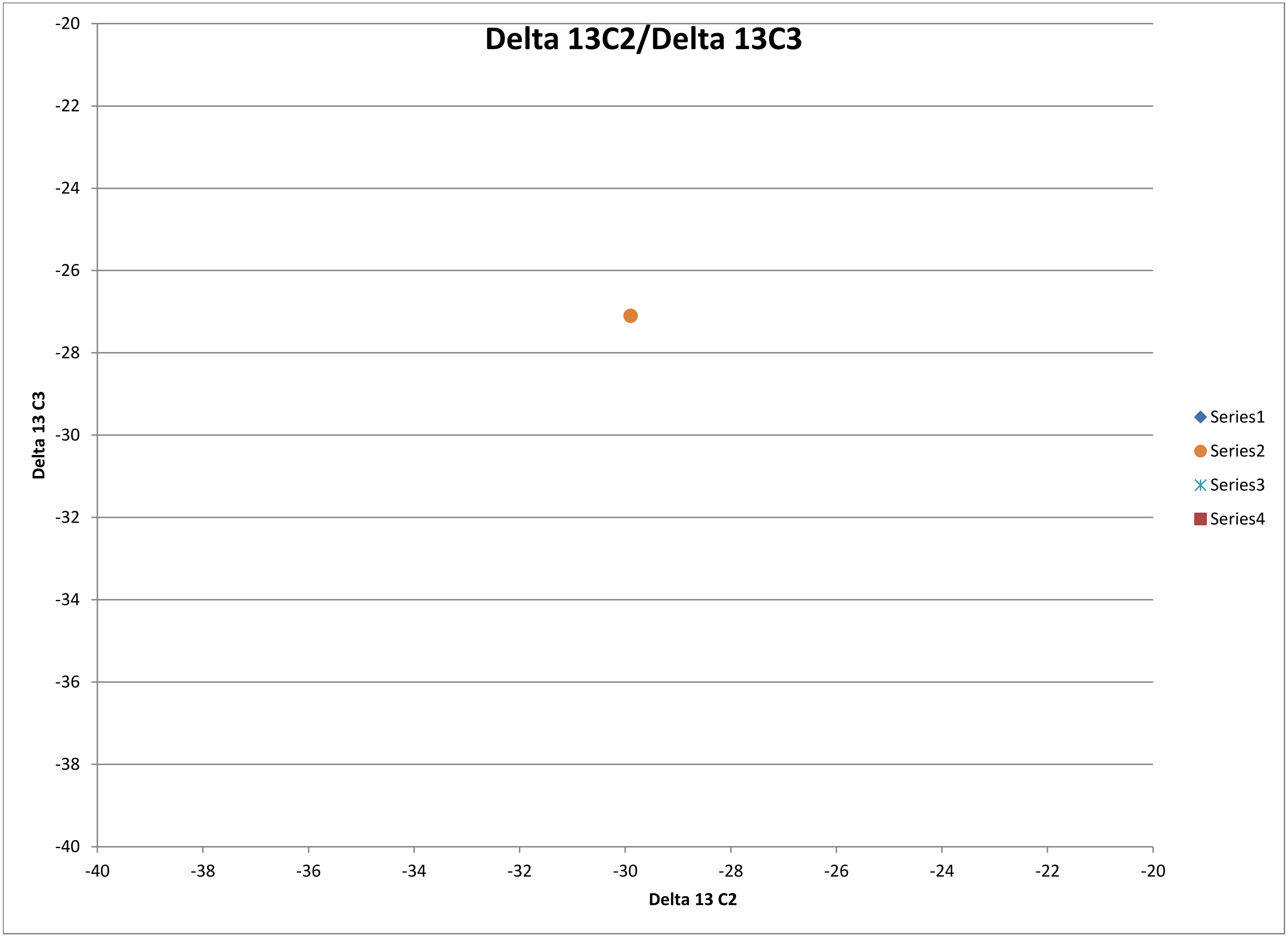

GAS COMPOSITION
GAS COMPOSITION (MOL %)
100
10
1
0.1
0.01
Mol%_Nitrogen
Mol%_Oxygen
Mol%_Argon
Mol%_O2+AR
Mol%_CarbonDiOxide
Mol%_CarbonMonoxide
Mol%_Helium
Mol%_hydrogen
Mol%_Methane
Mol%_Ethane
Mol%_Propane
Mol%_Butane
Mol%_IsoButane
Mol%_N_Pentane
Mol%_IsoPentane
Mol%_C6+
Parameter
CITY OF GREELEY 1-30 BDH 20220405
CITY OF GREELEY 1-30 PRDG 20220405

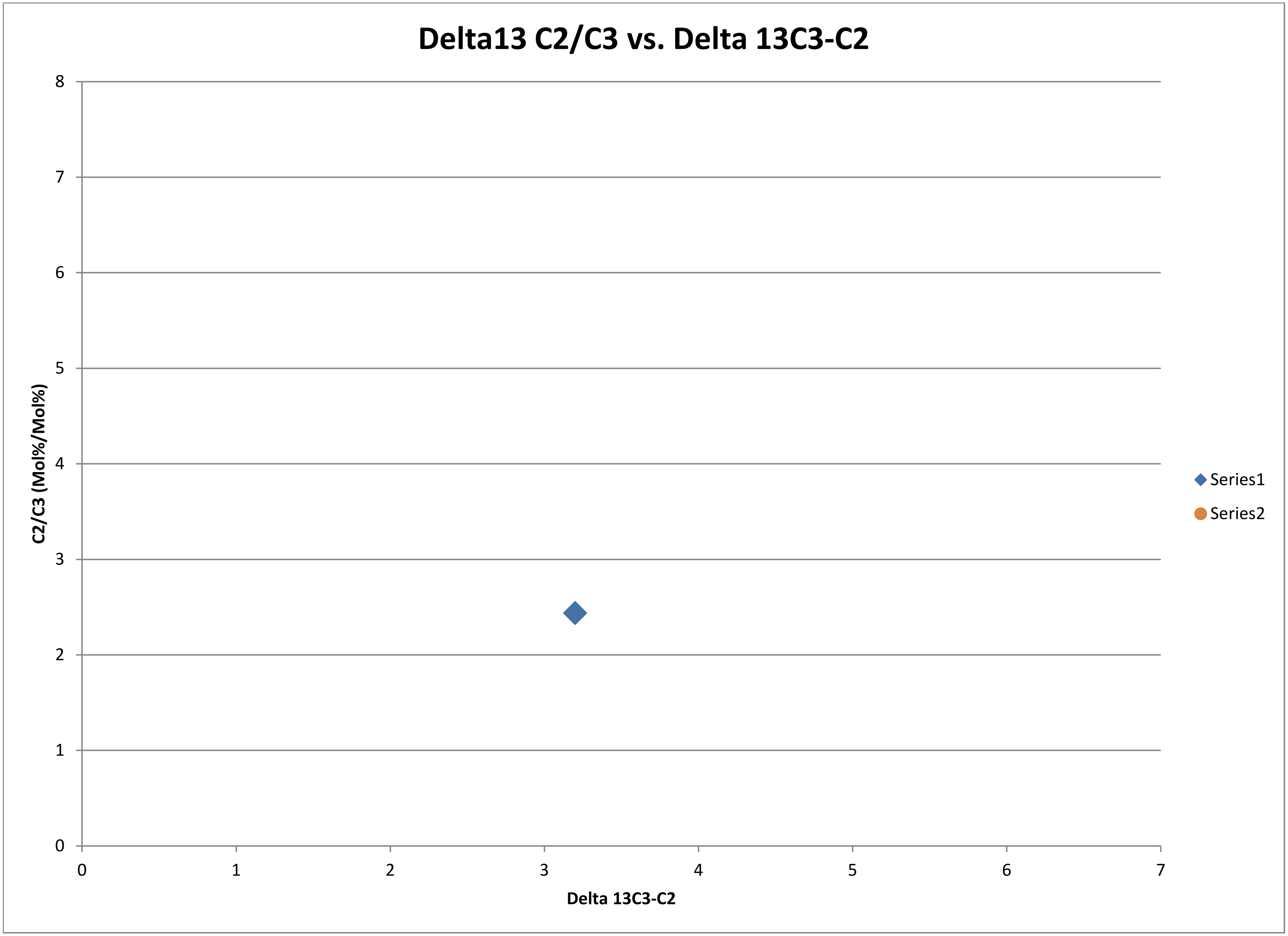

HYDROCARBON COMPOSITION
AIR FREE HYDROCARBON COMPOSITION (MOL %)
100
10
1
0.1
Mol%_Methane
Mol%_Ethane
Mol%_Propane
Mol%_Butane
Mol%_IsoButane
Mol%_Pentane
Mol%_N_IsoPentane
Mol%_C6+
SAMPLE LOCATION
CITY OF GREELEY 1-30 BDH 20220405
CITY OF GREELEY 1-30 PRDG 20220405

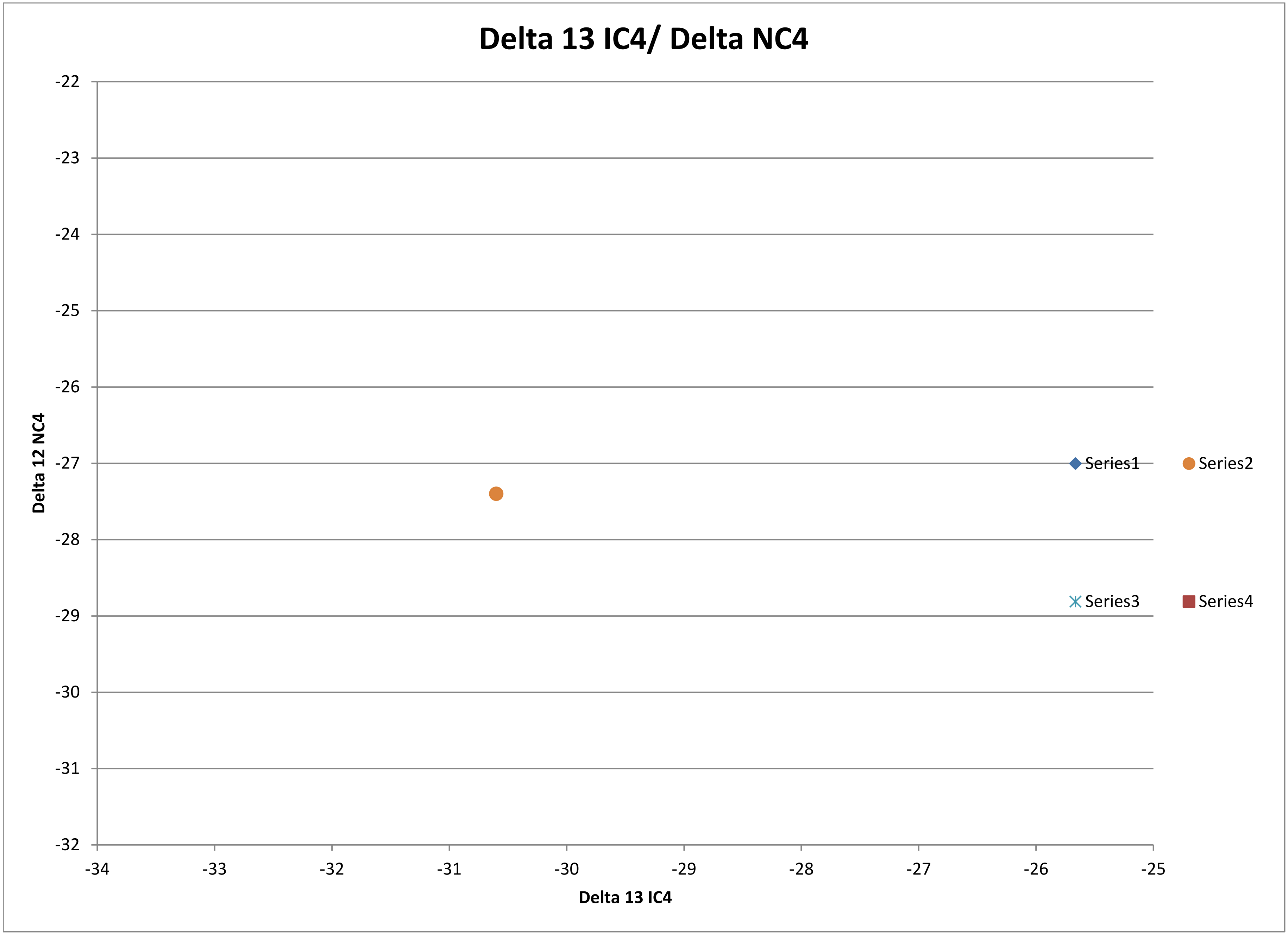


Iso/N Butane
Propane
Ethane
Methane
CITY OF GREELEY 1-30 BDH
Delta 13CN
1/Cn
-15
-25
-35
-45
-55
-65
-75
0.2
0.4
0.6
0.8
1


Bradenhead Test Summary
450
400
350
300
250
200
150
100
50
0
Pressure (PSI)
8/29/2012
10/18/2012
12/7/2012
1/26/2013
3/17/2013
5/6/2013
6/25/2013
8/14/2013
Test Date
surf_casing
prod_casing
tubing1
tubing2
inter_casing


Delta 13C2/Delta 13C3
Delta 13 C3
-20
-22
-24
-26
-28
-30
-32
-34
-36
-38
-40
-40
-38
-36
-34
-32
-30
-28
-26
-24
-22
-20
Delta 13 C2
Series1
Series2
Series3
Series4


Delta13 C2/C3 vs. Delta 13C3-C2
C2/C3 (Mol%/Mol%)
8
7
6
5
4
3
2
1
0
0
1
2
3
4
5
6
7
Delta 13C3-C2
Series1
Series2


Delta 13 IC4/ Delta NC4
-22
-23
-24
-25
-26
-27
-28
-29
-30
-31
-32
Delta 12 NC4
-34
-33
-32
-31
-30
-29
-28
-27
-26
-25
Delta 13 IC4
Series1
Series2
Series3
Series4