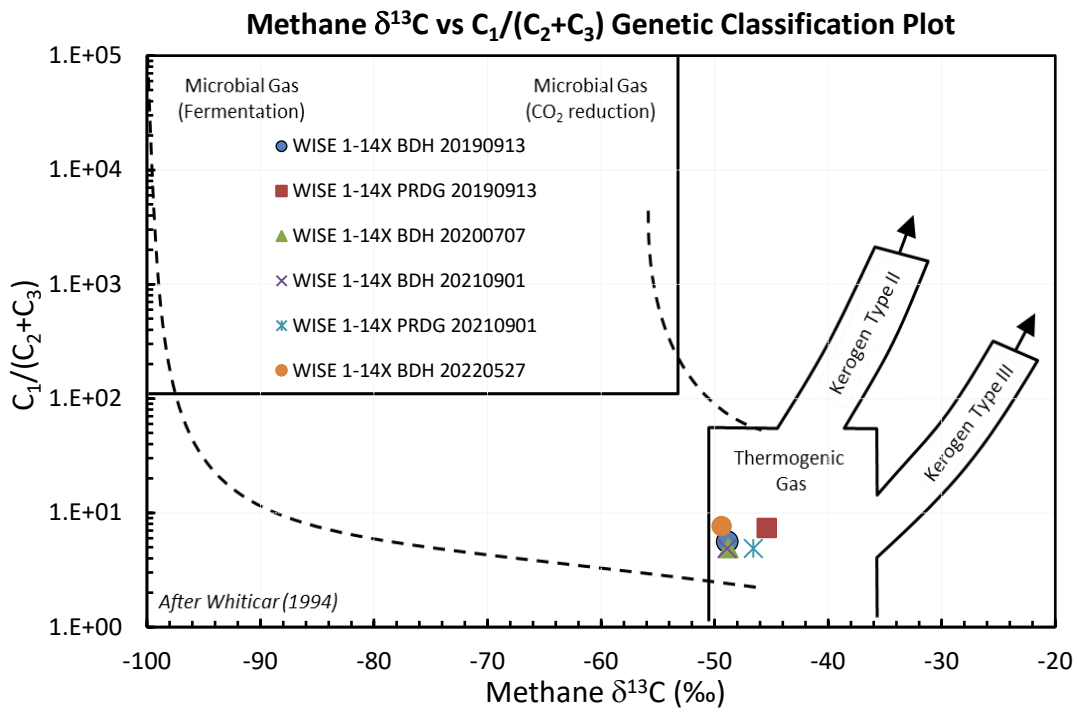
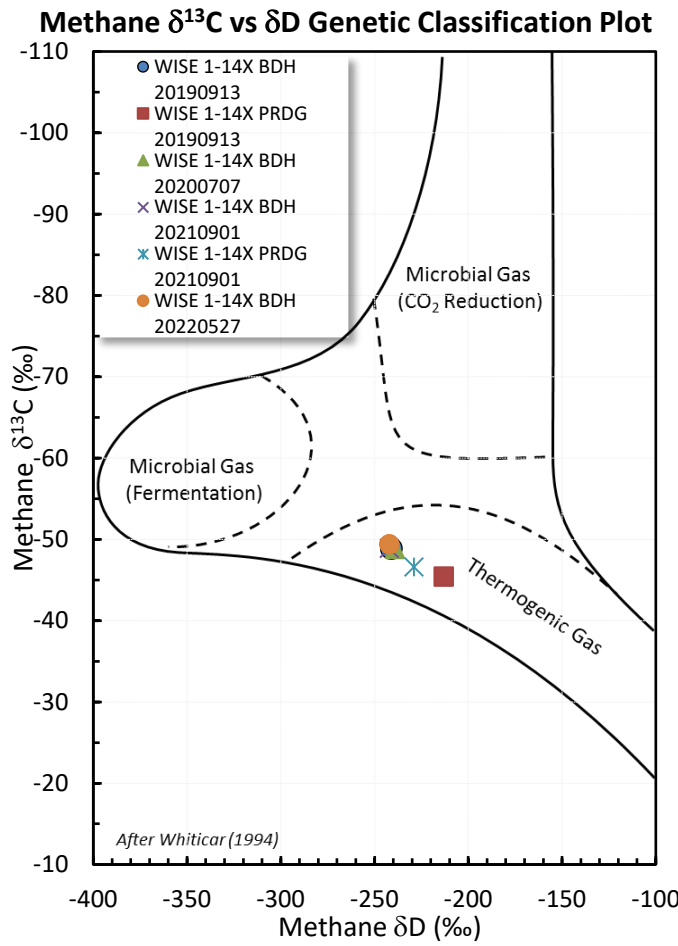
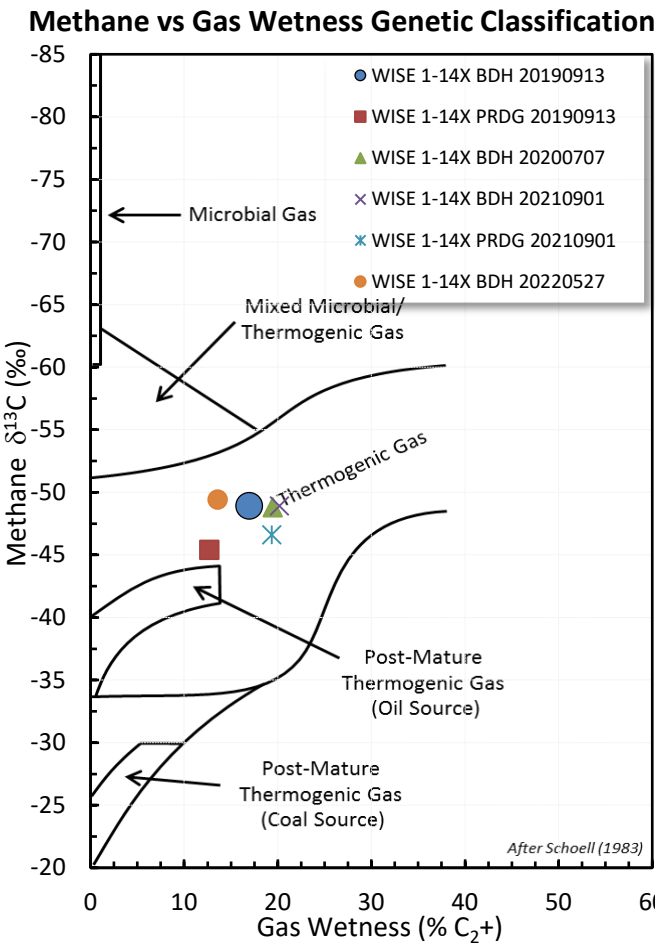
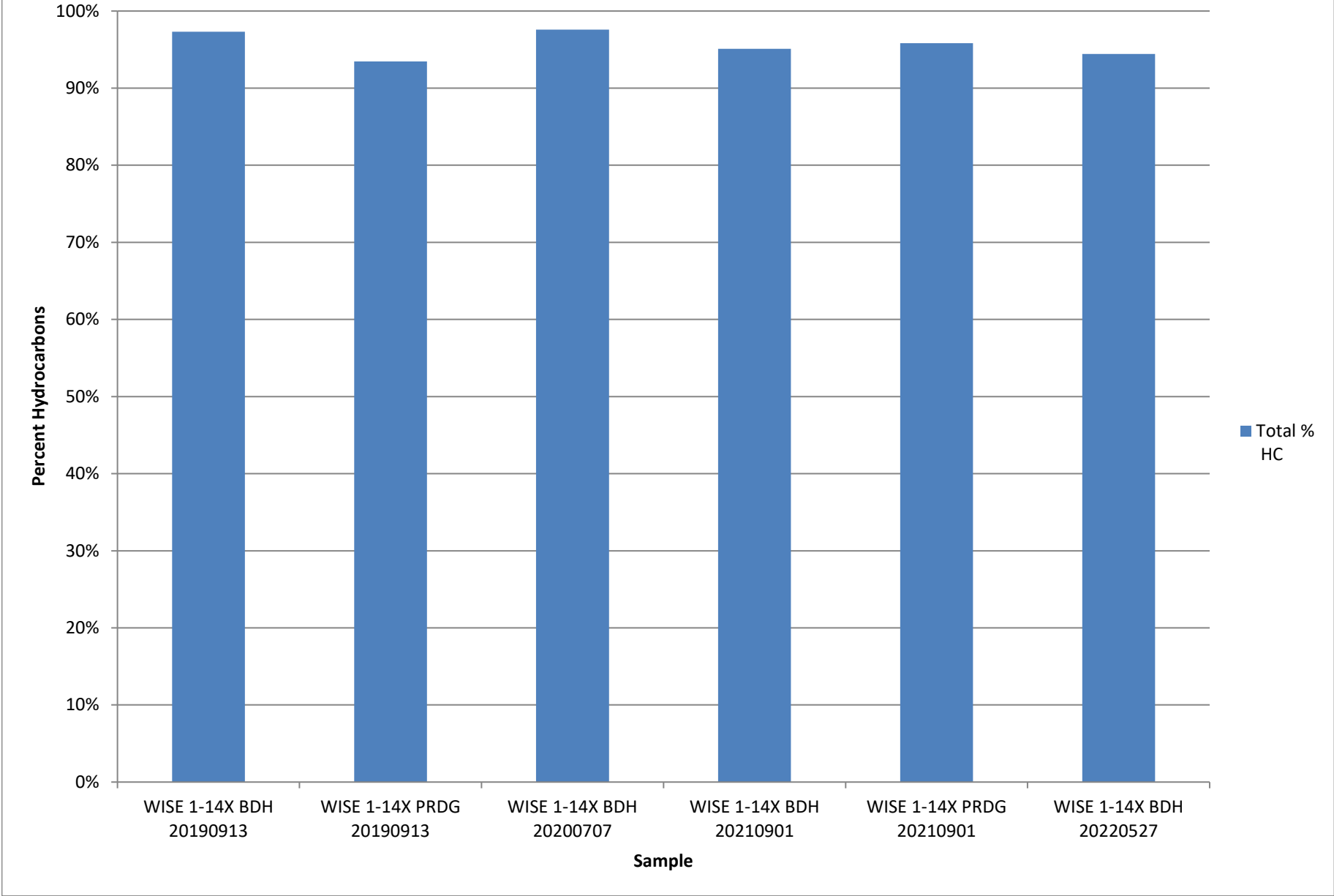


# Stable Isotope Interpretive Plots



Total Percent Hydrocarbons



**GAS COMPOSITION**

GAS COMPOSITION (MOL %)

Parameter

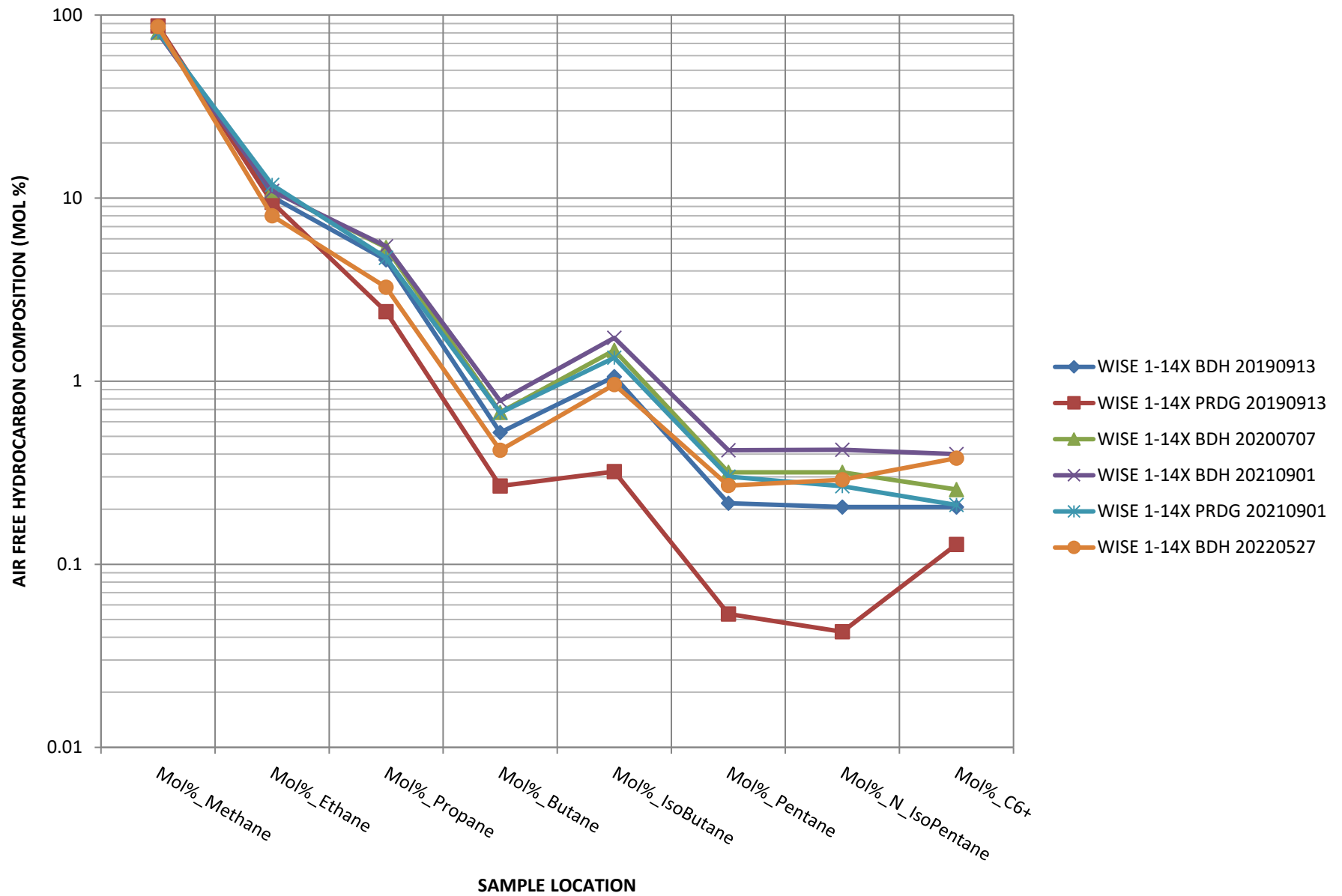
Legend:

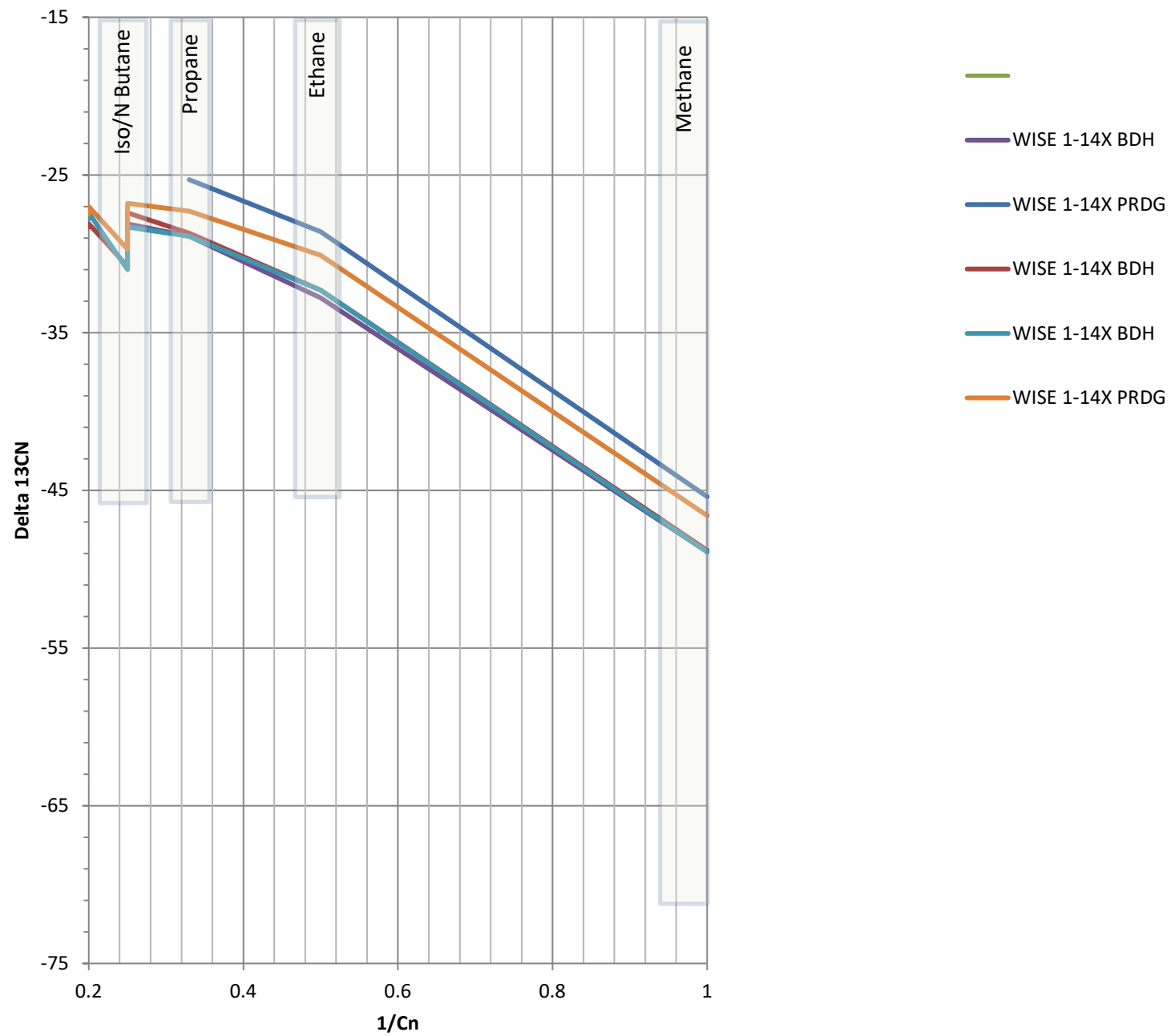
- WISE 1-14X BDH 20190913
- WISE 1-14X PRDG 20190913
- WISE 1-14X BDH 20200707
- WISE 1-14X BDH 20210901
- WISE 1-14X PRDG 20210901
- WISE 1-14X BDH 20220527

Parameter	WISE 1-14X BDH 20190913	WISE 1-14X PRDG 20190913	WISE 1-14X BDH 20200707	WISE 1-14X BDH 20210901	WISE 1-14X PRDG 20210901	WISE 1-14X BDH 20220527
Mol% Nitrogen	2.5	3.0	2.0	3.5	1.5	4.5
Mol% Oxygen	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Mol% Argon	0.4	0.7	0.4	0.8	0.4	1.0
Mol% O2+AR	0.02	3.0	0.15	0.5	2.0	0.08
Mol% CarbonDioxide	0.03	0.02	0.02	0.02	0.02	0.02
Mol% Helium	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Mol% hydrogen	80	80	75	80	75	80
Mol% Methane	10	10	10	10	11	8
Mol% Ethane	4.5	2.5	5.5	5.5	4.5	3.0
Mol% Propane	0.5	0.25	0.7	0.8	0.6	0.4
Mol% Butane	1.0	0.3	1.5	1.8	1.3	0.9
Mol% IsoButane	0.2	0.05	0.35	0.45	0.3	0.25
Mol% N_Pentane	0.2	0.04	0.35	0.45	0.25	0.25
Mol% IsoPentane	0.2	0.12	0.25	0.4	0.2	0.4
Mol% C6+	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

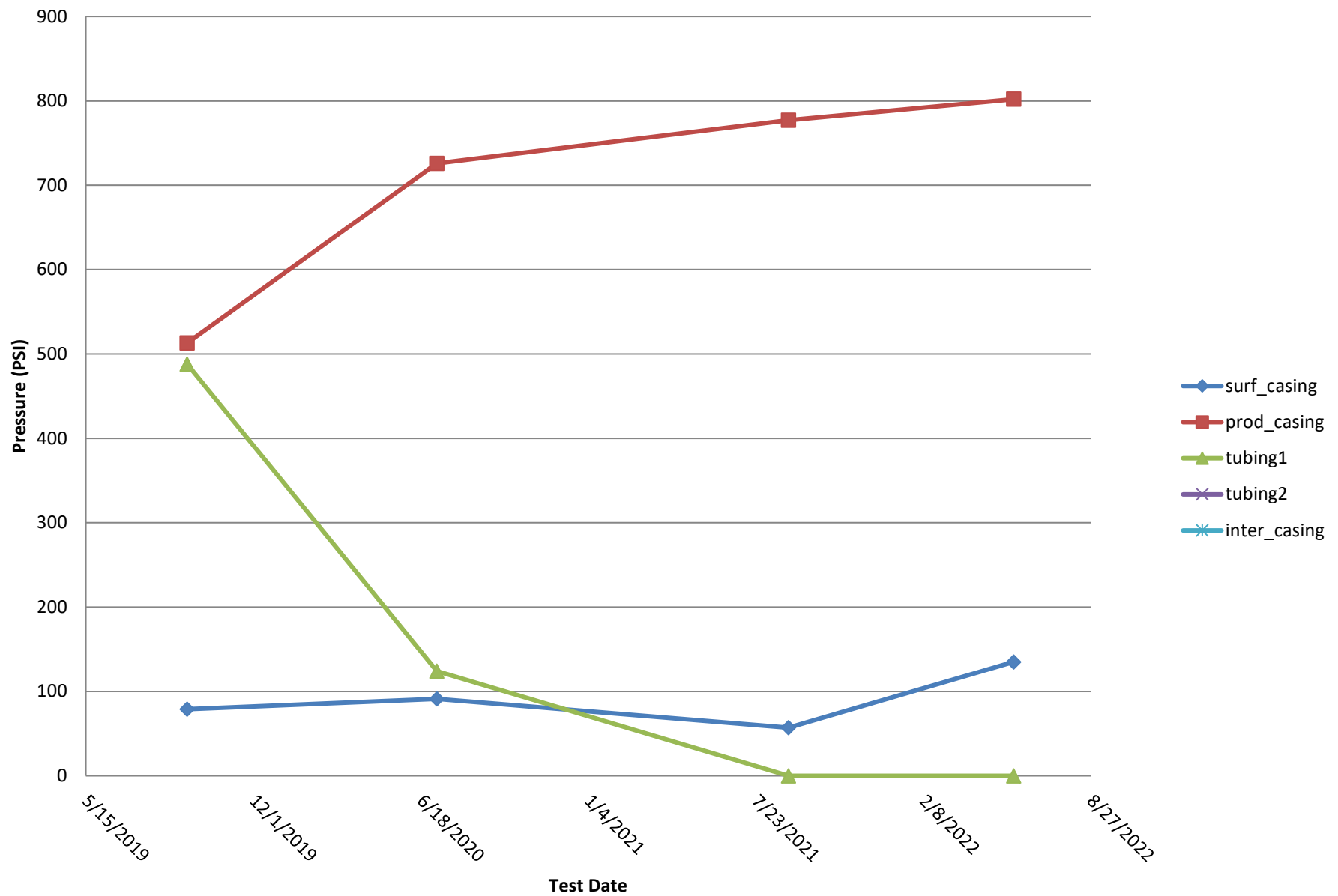
- WISE 1-14X BDH 20190913
- WISE 1-14X PRDG 20190913
- WISE 1-14X BDH 20200707
- WISE 1-14X BDH 20210901
- WISE 1-14X PRDG 20210901
- WISE 1-14X BDH 20220527

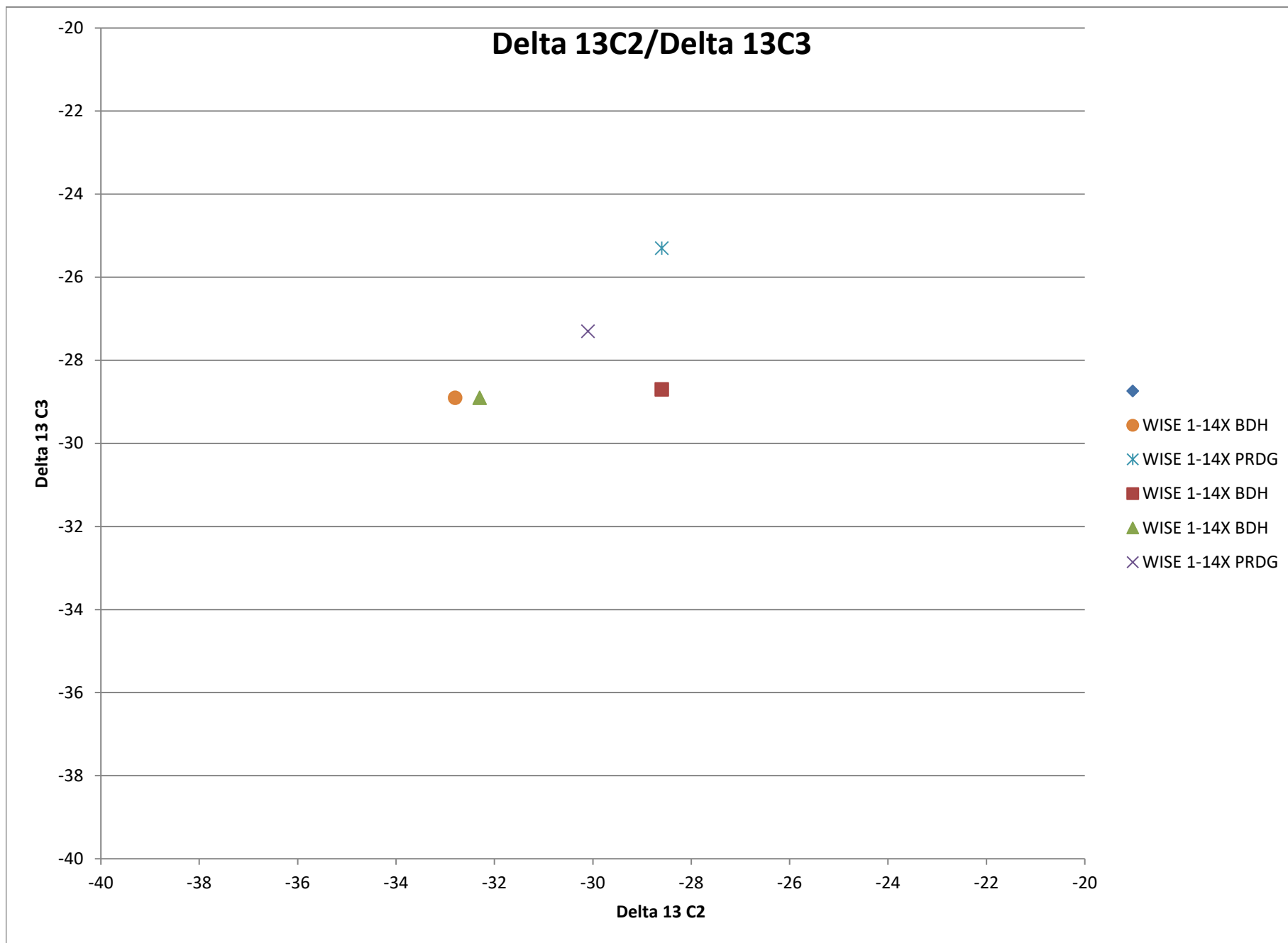
# HYDROCARBON COMPOSITION



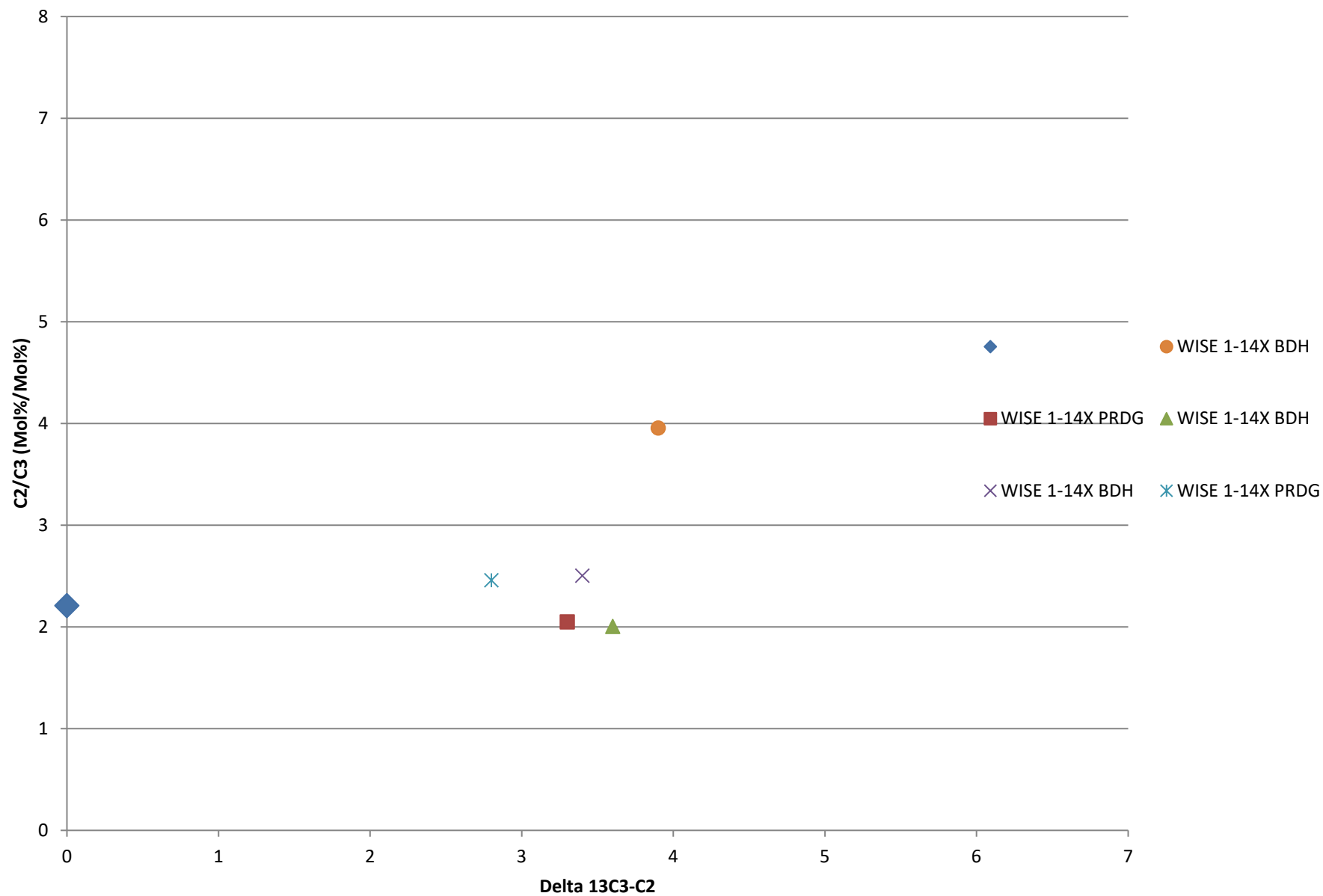


## Bradenhead Test Summary





# Delta13 C2/C3 vs. Delta 13C3-C2





## Delta 13 IC4/ Delta NC4

