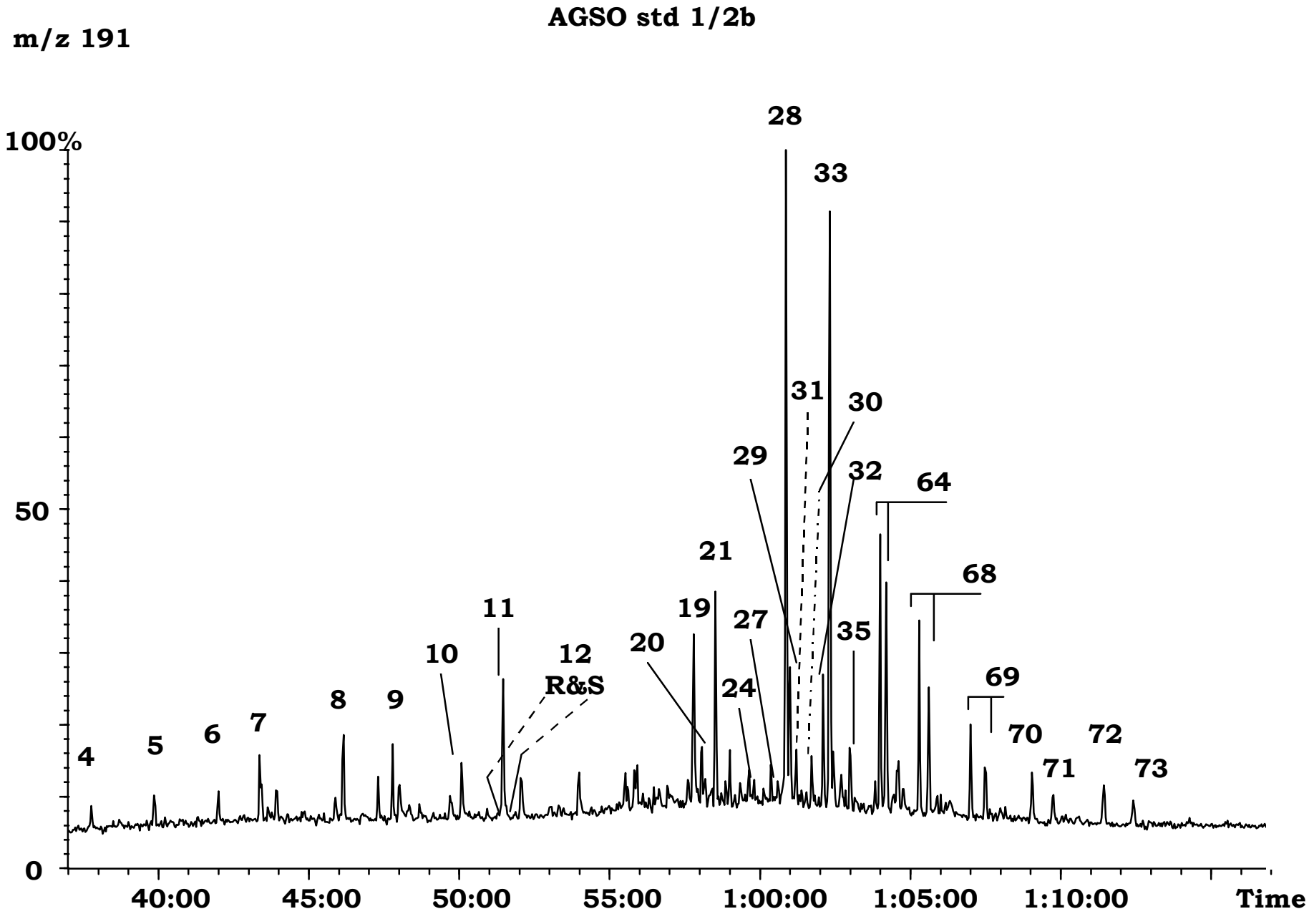
Browse Basin Organic Geochemistry Study

North West Shelf , Australia

Volume 2 : Appendix C

N.B. Each Sample Id has multiple associated images, with the number of images varying from sample to sample

Back to Report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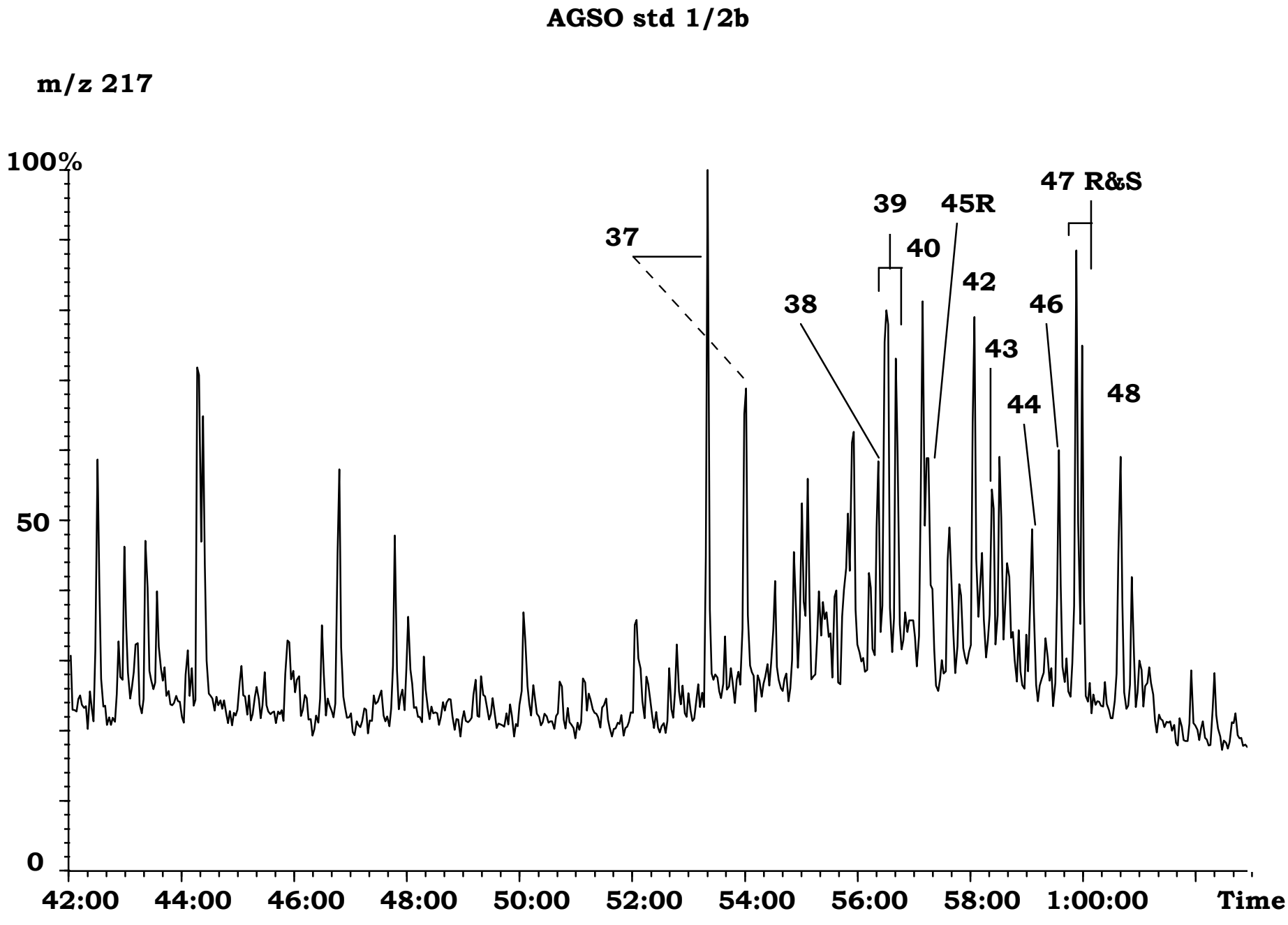
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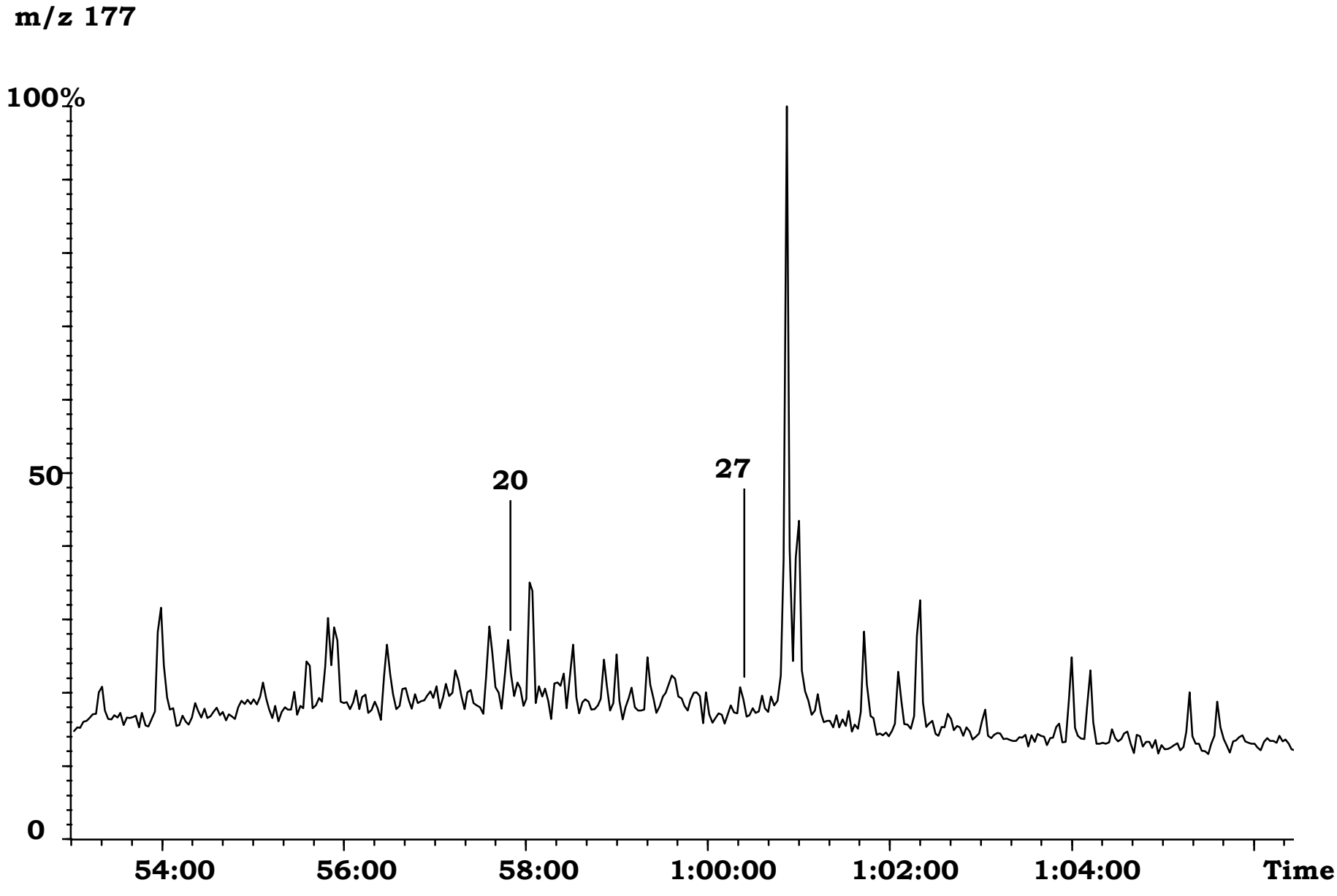

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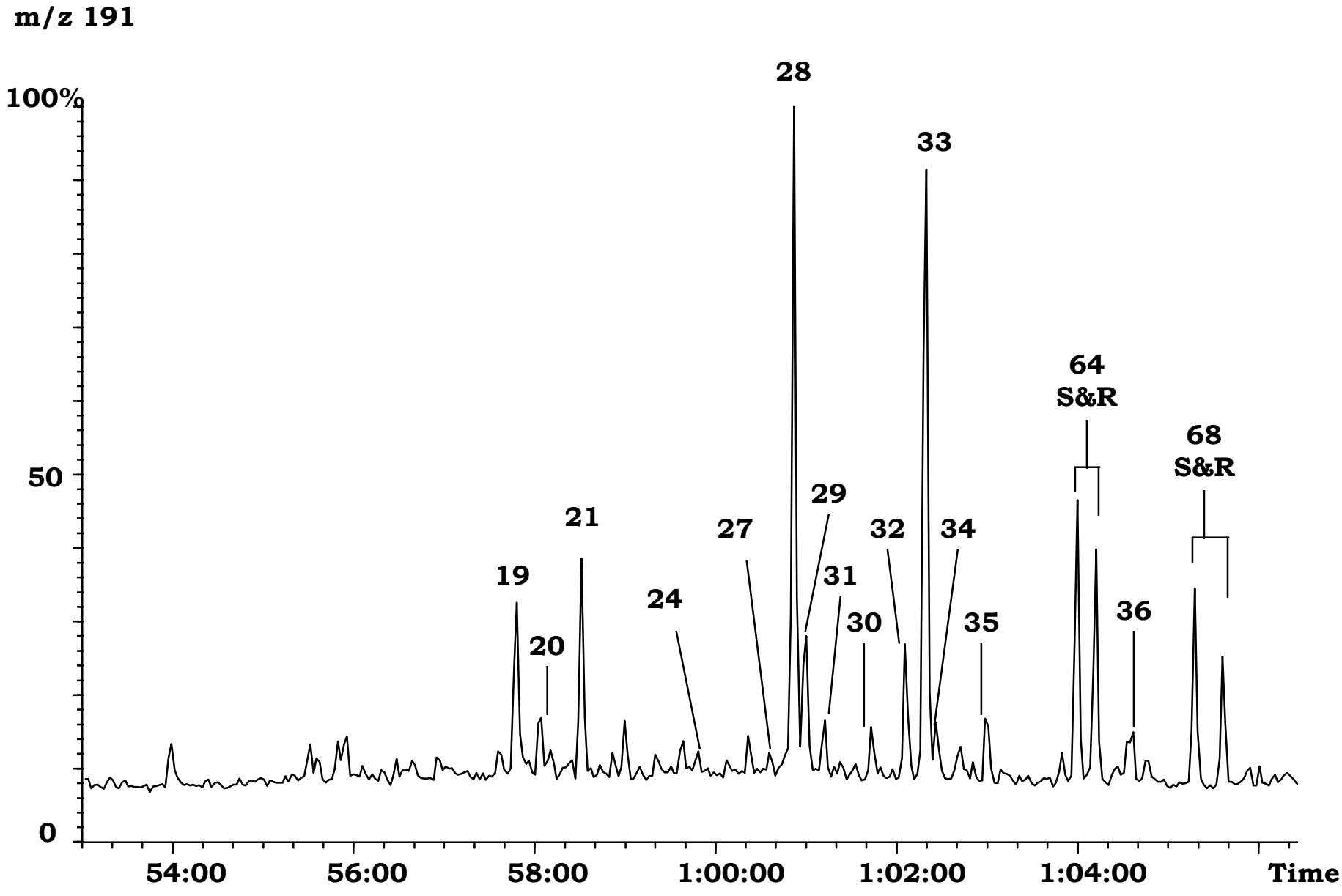
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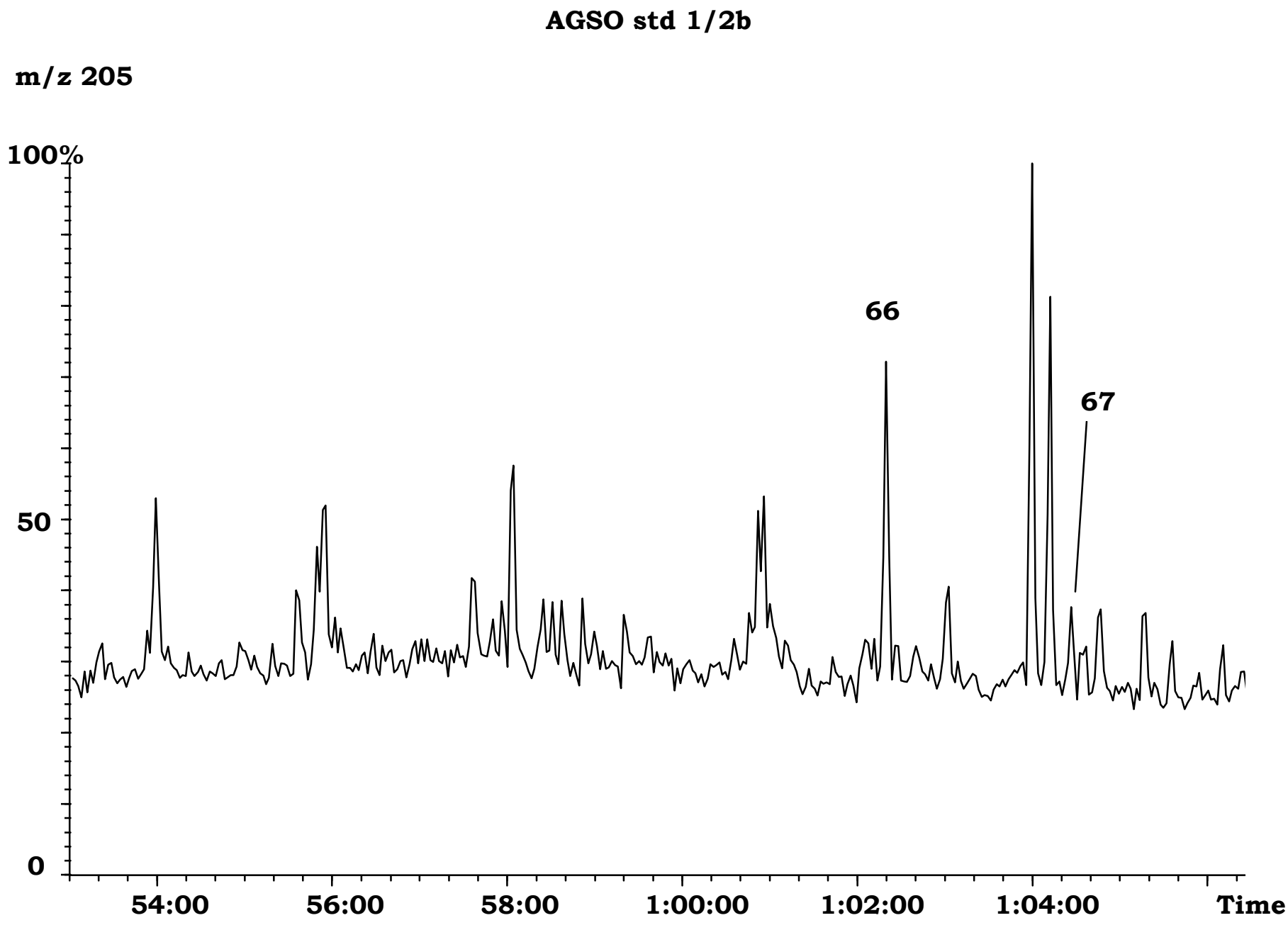
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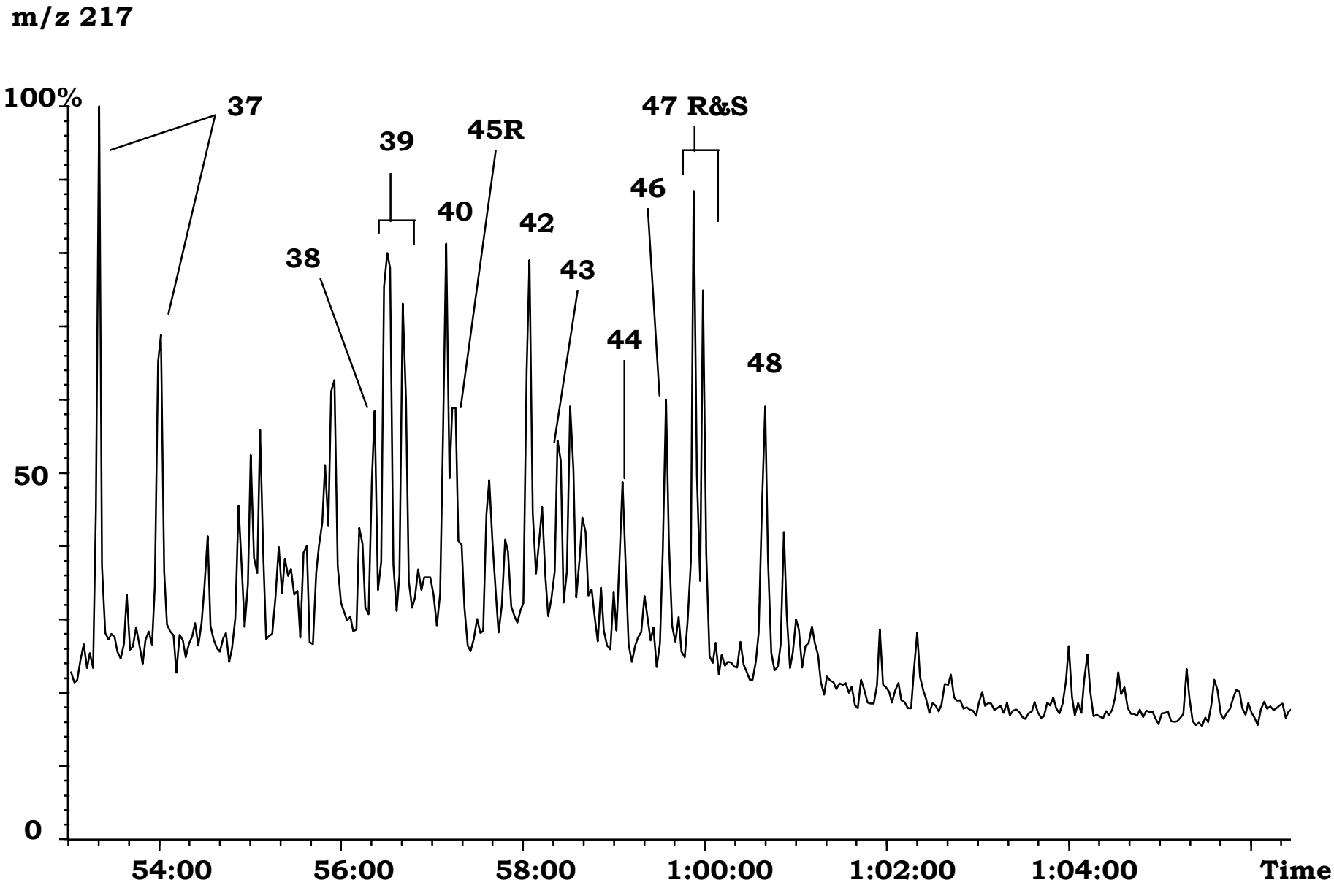
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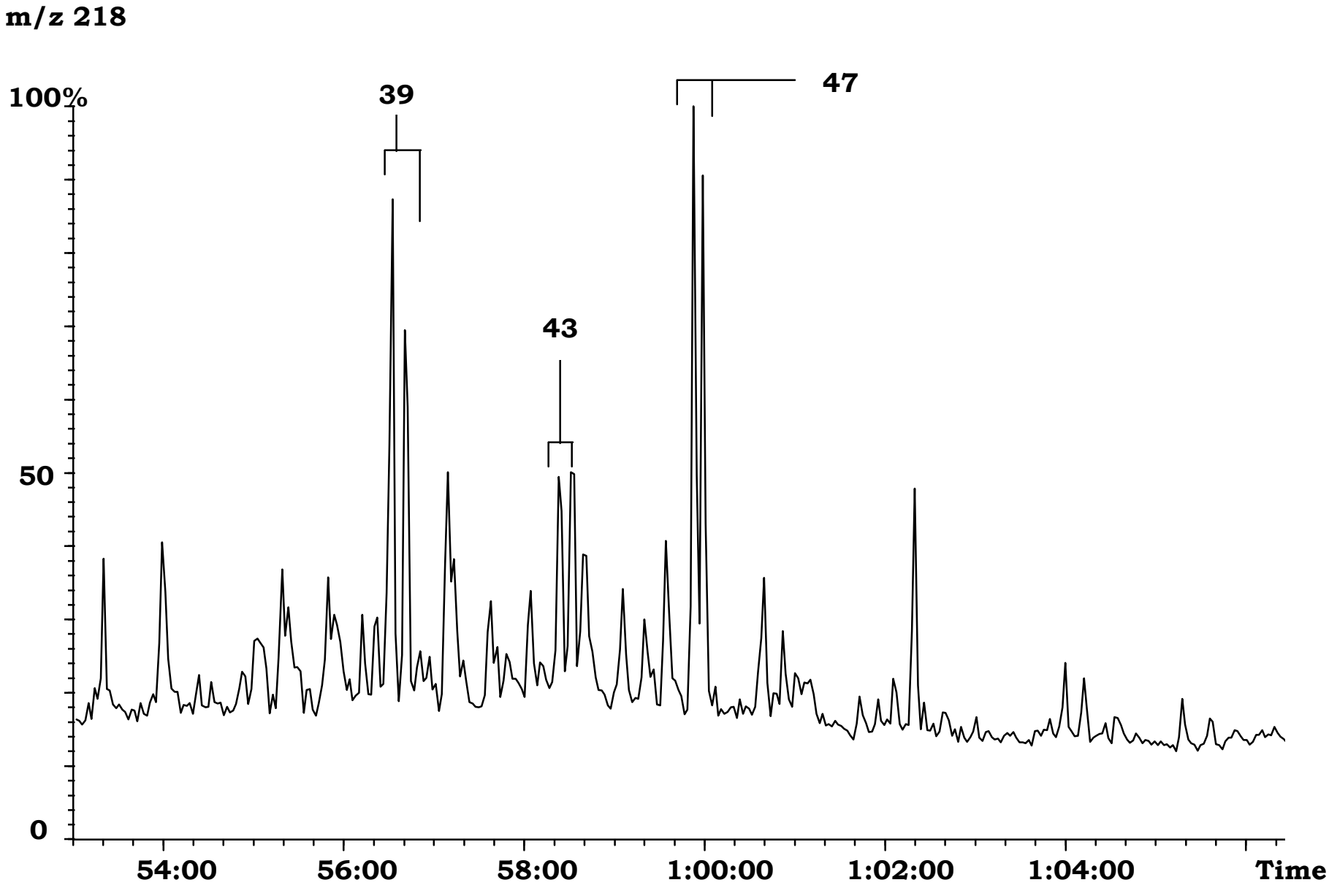

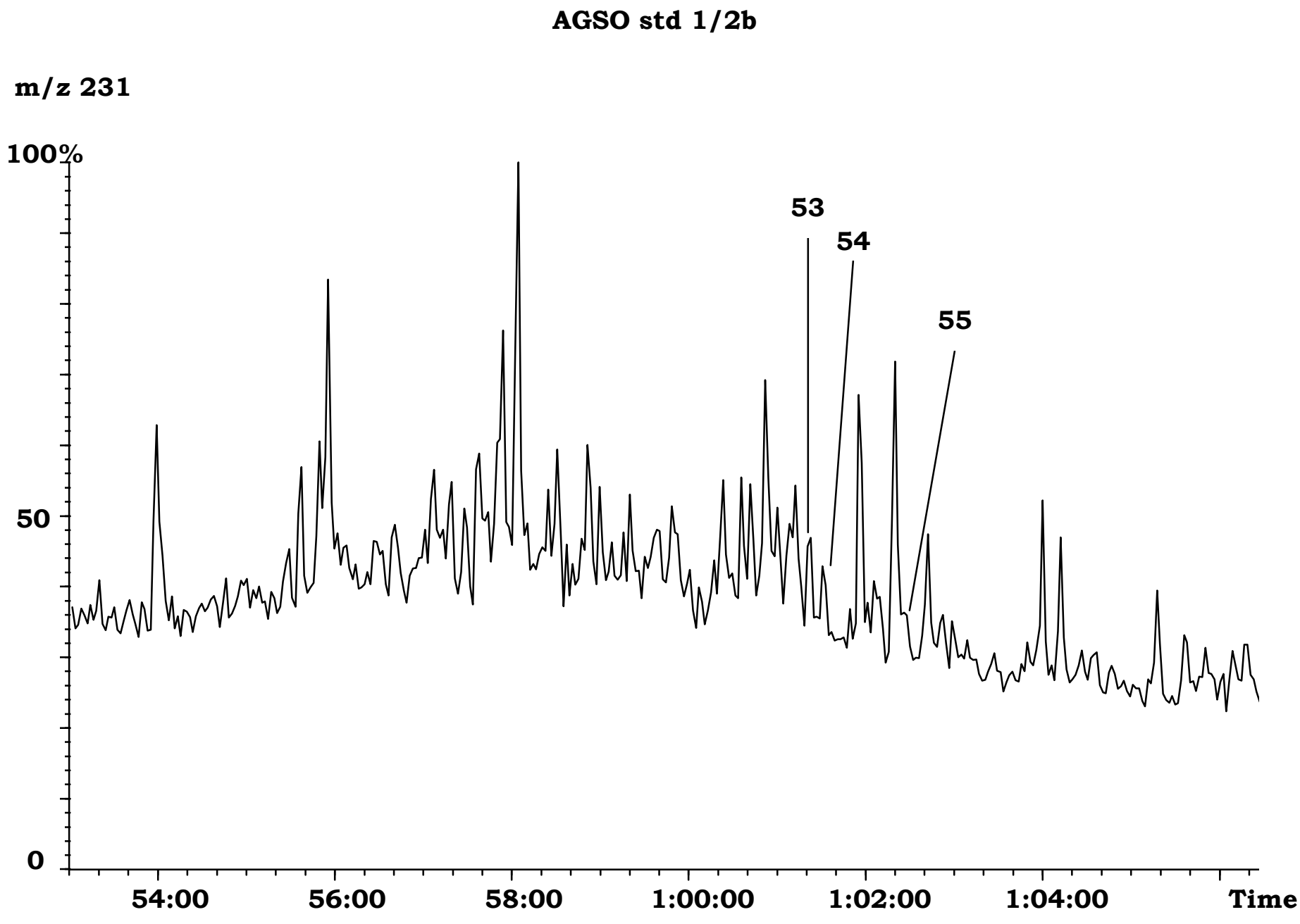
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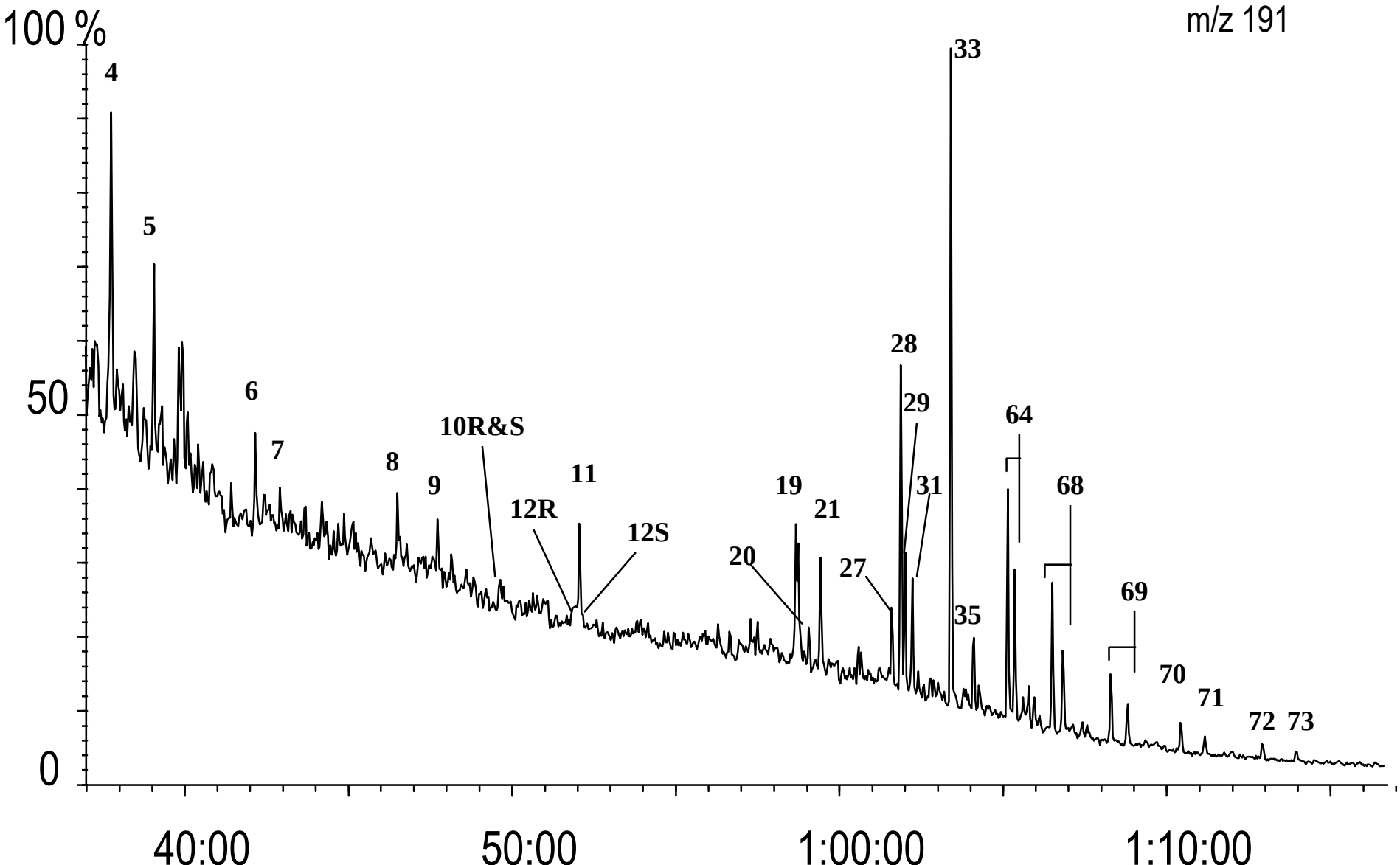
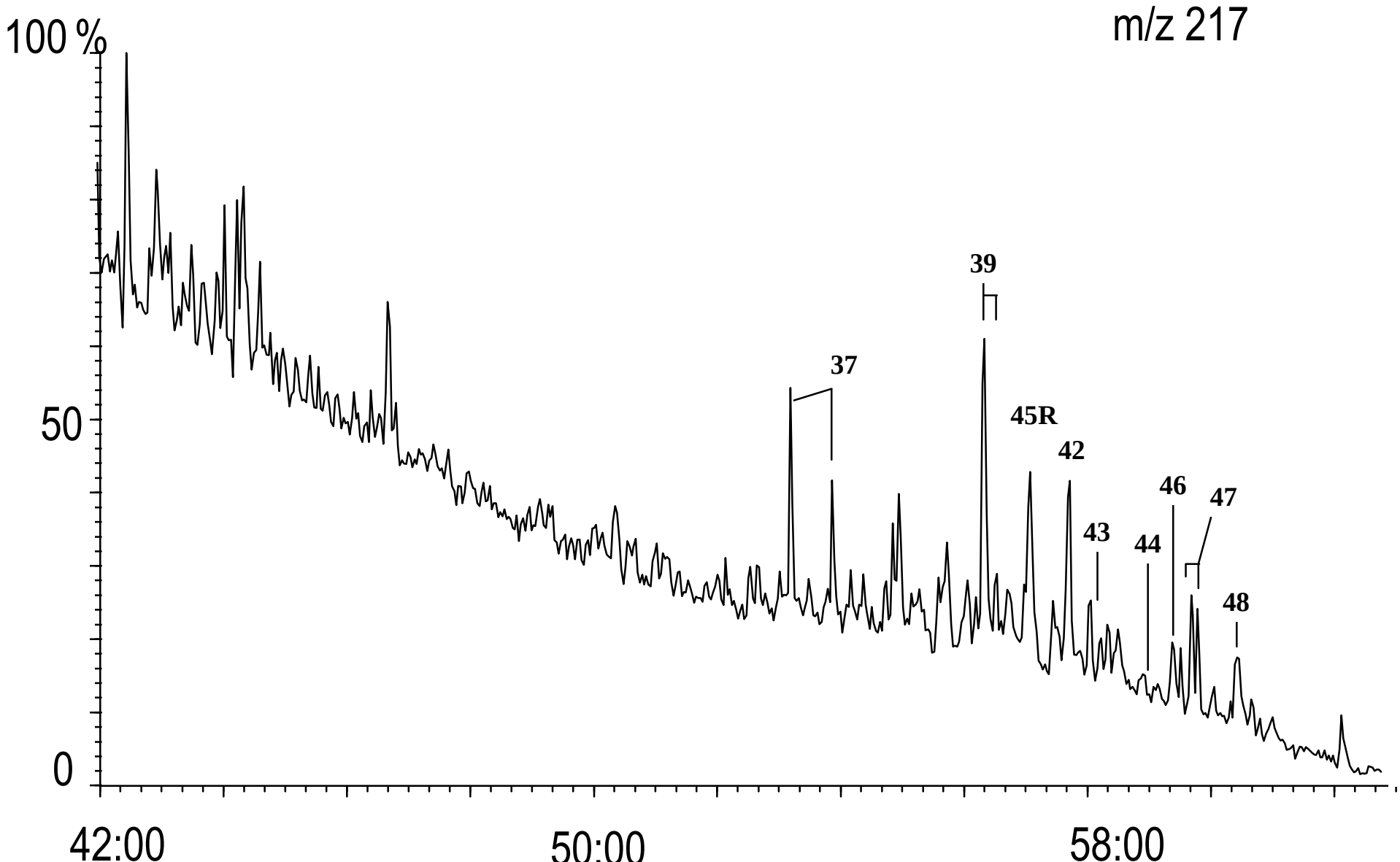
North Scott Reef 1 (922)



North Scott Reef 1 (922)



Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

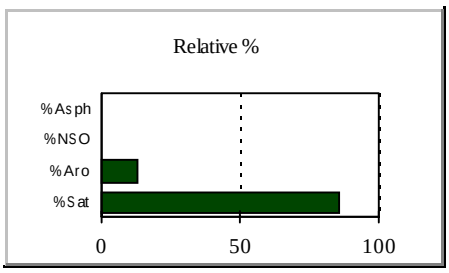
GEOCHEMICAL SUMMARY SHEET

Country: **Australia** Depth:
Basin: **Browse** Age: **199.8 Ma**
Well: **North Scott Reef 1** Formation:
Test: **PT**

04-Jun-98
Sample ID: **10152**
LAT: -13.9485
LONG: 121.9754

BULK PROPERTIES:

C15 + Composition
% Sat: **85.8**
% Aro: **13.3**
% NSO: **0.9**
% Asph: **0.0**
Sat/Aro= **6.44**
n-Paraffin/Naphthene= **0.69**

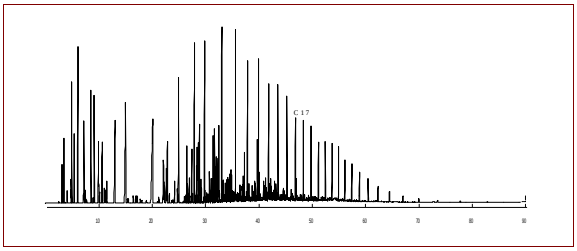


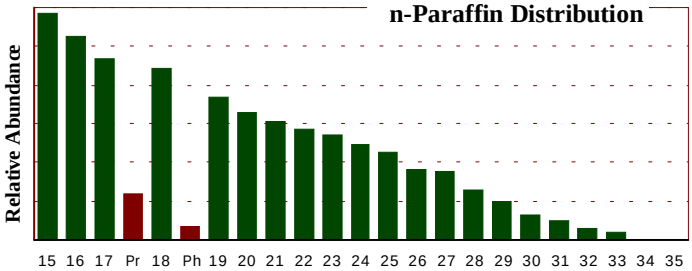
Stable Carbon Isotope Composition
δ per mil PDB
C15+ Saturate: **-26.78**
C15+ Aromatic: **-24.26**
Canonical Variable: **2.25**

Comments: condensate PT

API Gravity: **47.5** %< C15: **40.9** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



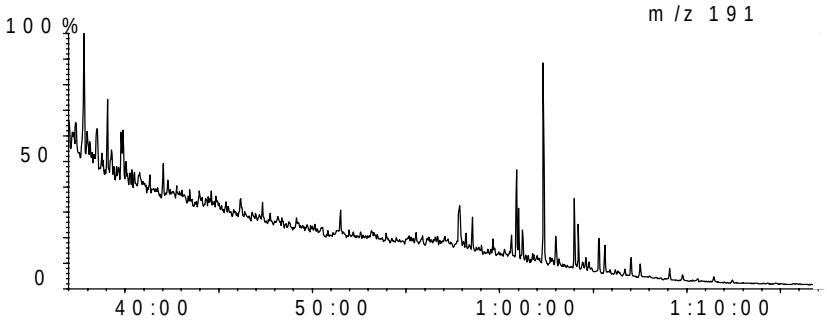


Pr/Ph: **3.37** Pr/n-C17: **0.25** Ph/n-C18: **0.08** n-C27/n-C17: **0.38** CPI: **1.14**

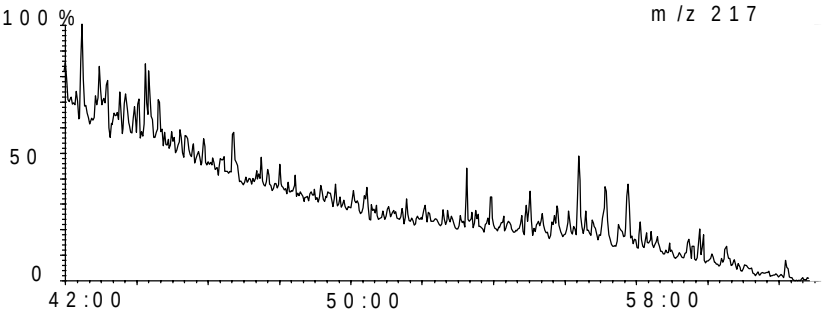
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **17**

Terpanes



Steranes

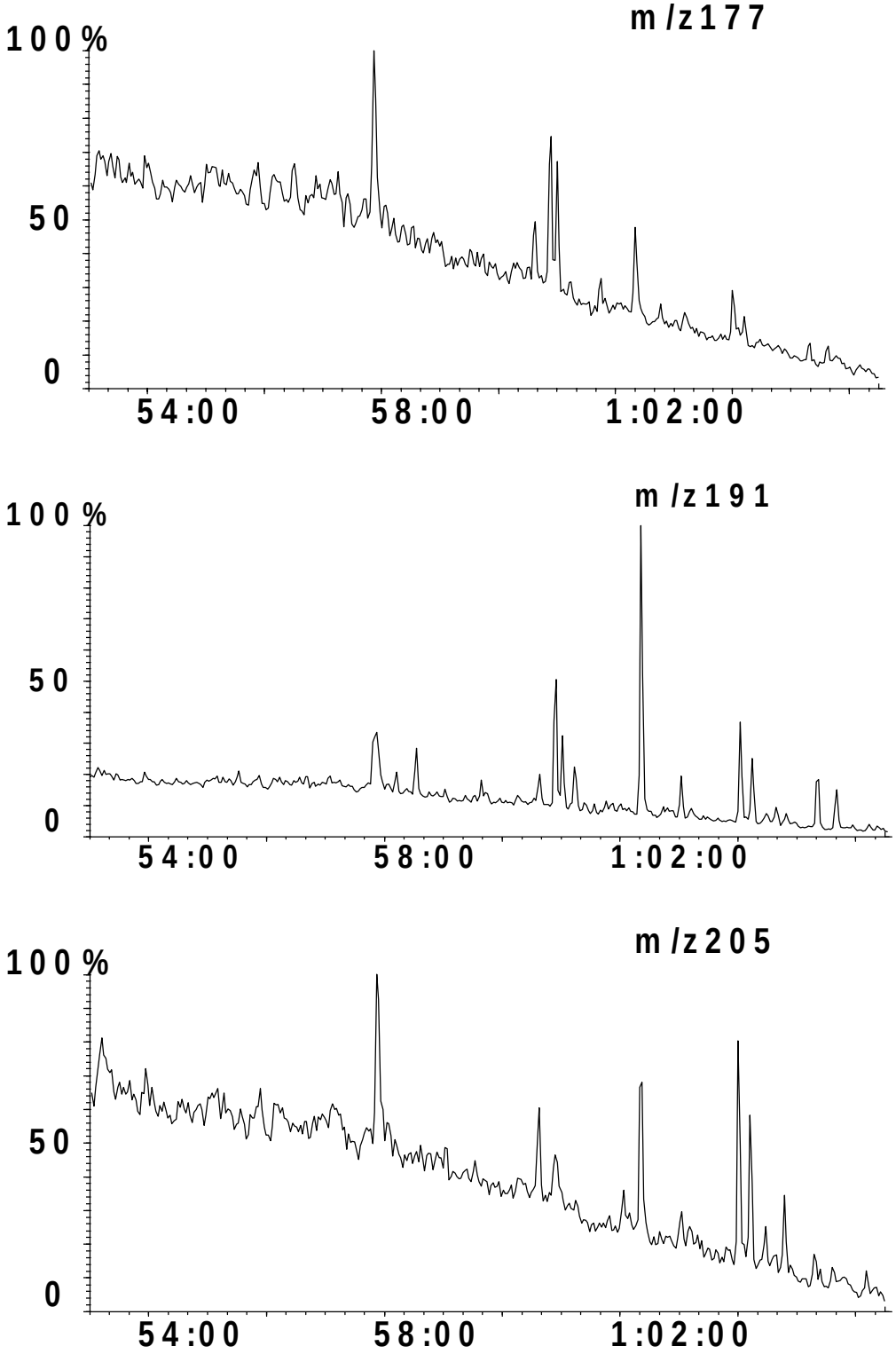


OilMod Ratios

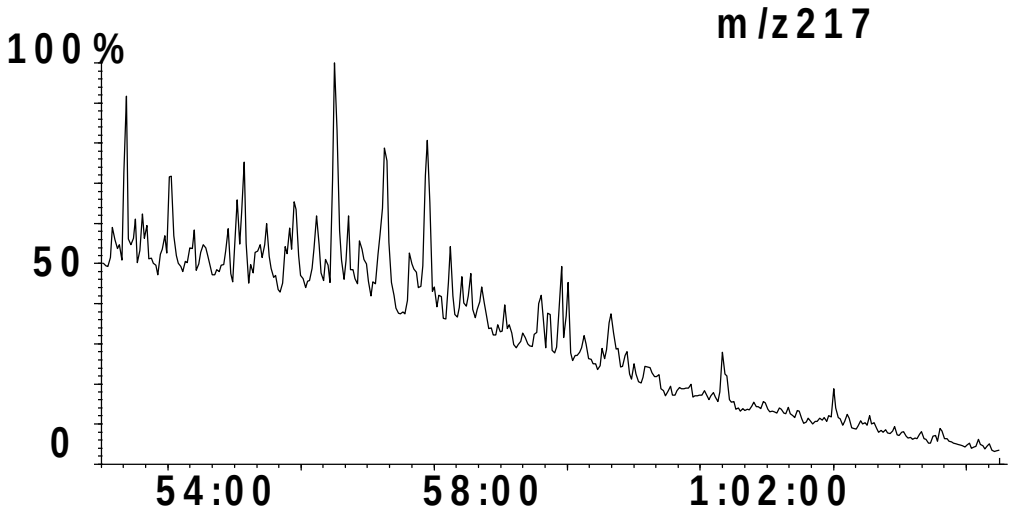
C19/C23= **8.71**
C22/C21= **0.38**
C24/C23= **1.13**
C26/C25= **0.66**
Tet/C23= **1.45**
C27T/C27= **0.04**
C28/H= **0.02**
C29/H= **0.44**
C30X/H= **0.14**
OL/H= **0.01**
C31R/H= **0.22**
GA/C31R= **0.26**
C35S/C34S= **0.53**
Ster/Terp= **0.38**
Rearr/Reg = **3.30**
%C27= **43.1**
%C28= **13.9**
%C29= **42.9**
C29 20S/R= **0.82**
Ts/Tm= **1.28**
C29D/H= **0.56**
DM/H= **0.00**

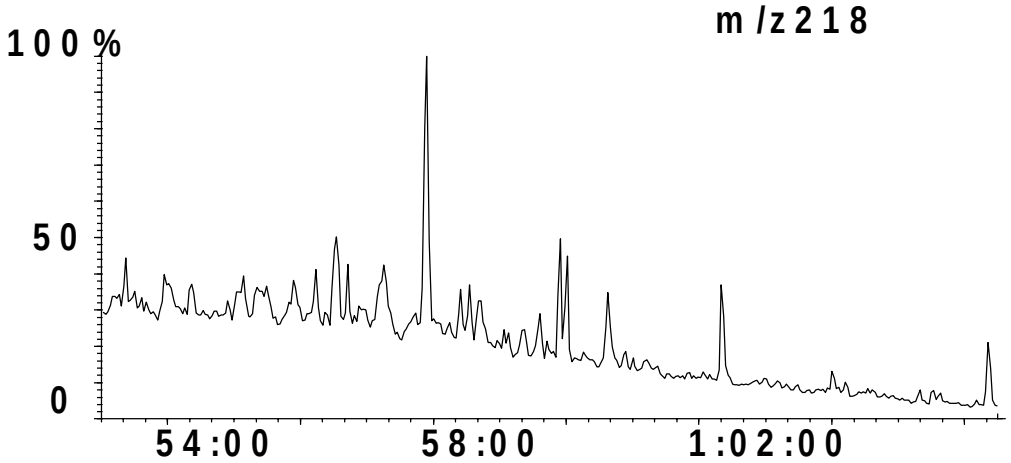
AGSO GPO Box 375 Canberra ACT 2601 Australia Tel: (026) 2499515 Fax: (026) 2499983

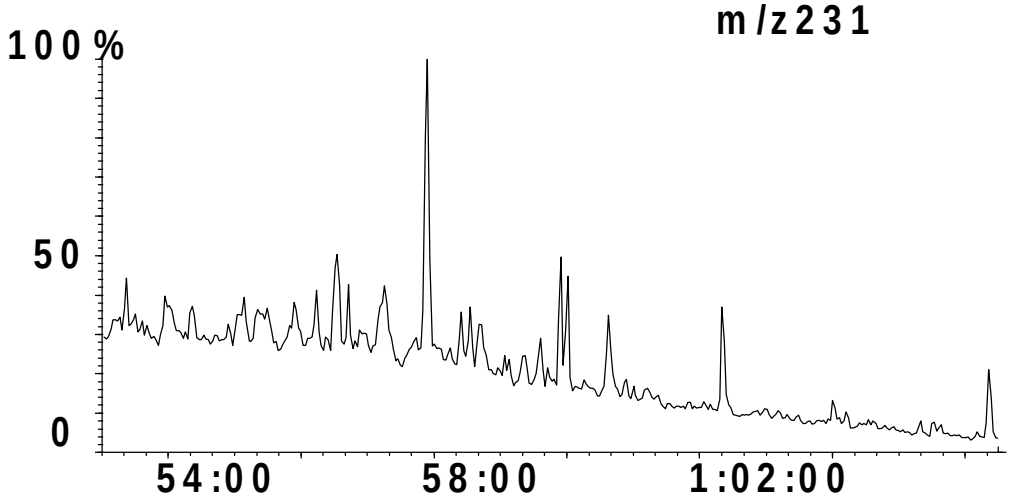
Country:	**Australia**	Depth:		04-Jun-98
Basin:	**Browse**	Age:	**199.8 Ma**	Sample ID: **10152**
Well:	**North Scott Reef 1**	Formation:		LAT: -13.9485
Test:	**PT**			LONG: 121.9754



Country:	**Australia**	Depth:		04-Jun-98
Basin:	**Browse**	Age:	**199.8 Ma**	Sample ID: **10152**
Well:	**North Scott Reef 1**	Formation:		LAT: -13.9485
Test:	**PT**			LONG: 121.9754







Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

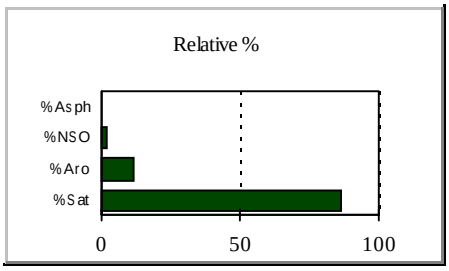
Country: **Australia**
Basin: **Browse**
Well: **Scott Reef 1**
Test: **DST 4**

Depth: **4299-4305m**
Age: **165 Ma**
Formation: **Unnamed sst,slt,cyst Unit**

04-Jun-98
Sample ID: **10153**
LAT: -14.0761
LONG: 121.8247

BULK PROPERTIES:

C15 + Composition
% Sat: **86.1**
% Aro: **11.6**
% NSO: **2.3**
% Asph: **0.0**
Sat/Aro= **7.41**
n-Paraffin/Naphthene= **0.71**



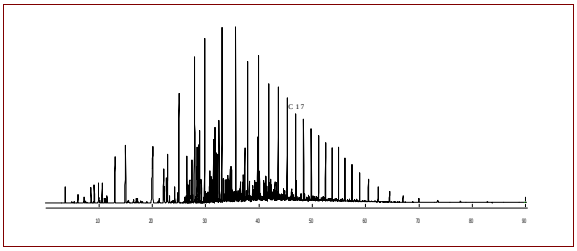
Stable Carbon Isotope Composition
δ per mil PDB

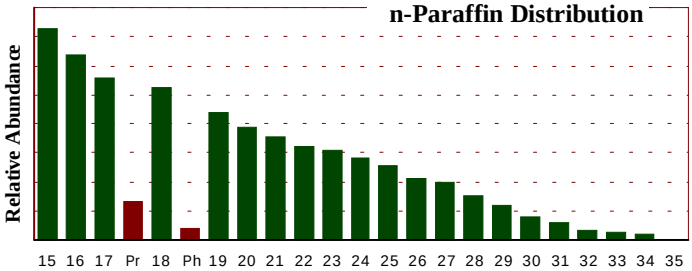
C15+ Saturate: **-26.77**
C15+ Aromatic: **-24.09**
Canonical Variable: **2.60**

Comments: DST 4

API Gravity: **44.2** %< C15: **22.9** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



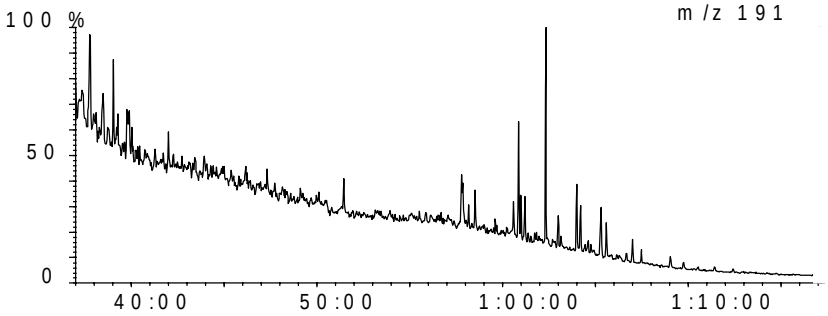


Pr/Ph: **3.15** Pr/n-C17: **0.23** Ph/n-C18: **0.08** n-C27/n-C17: **0.36** CPI: **1.11**

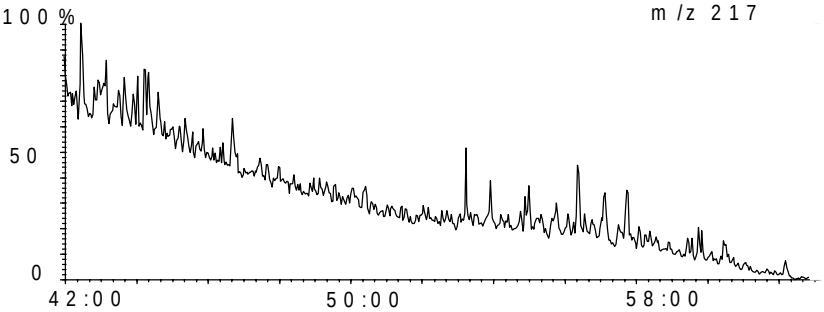
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **12**

Terpanes



Steranes



OilMod Ratios

C19/C23= **4.88**
C22/C21= **0.53**
C24/C23= **1.18**
C26/C25= **0.03**
Tet/C23= **1.69**
C27T/C27= **0.06**
C28/H= **0.03**
C29/H= **0.53**
C30X/H= **0.20**
OL/H= **0.02**
C31R/H= **0.21**
GA/C31R= **0.27**
C35S/C34S= **0.46**
Ster/Terp= **0.38**
Rearr/Reg = **4.06**
%C27= **40.3**
%C28= **12.8**
%C29= **46.9**
C29 20S/R= **0.69**
Ts/Tm= **1.36**
C29D/H= **0.36**
DM/H= **0.00**

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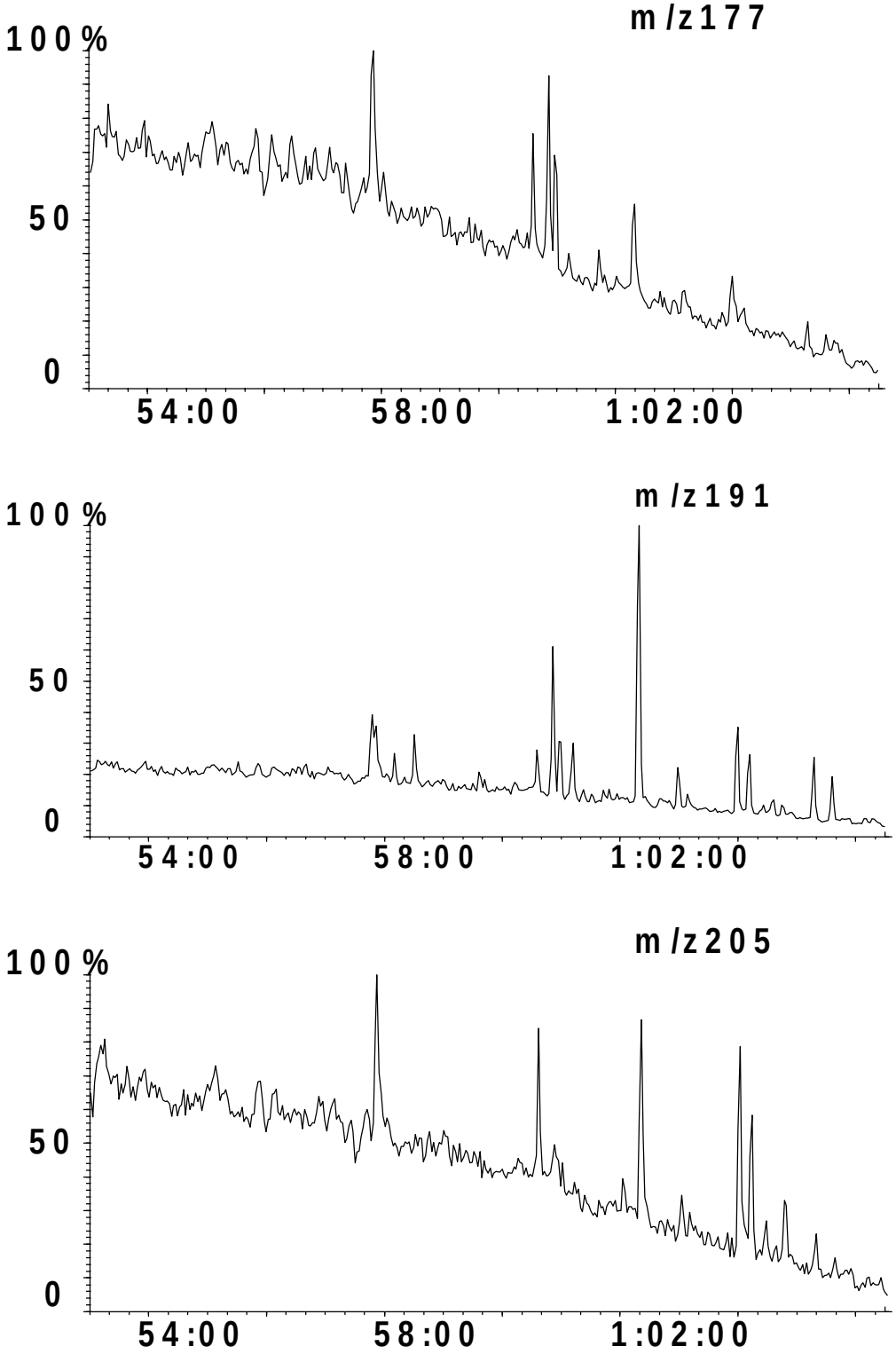
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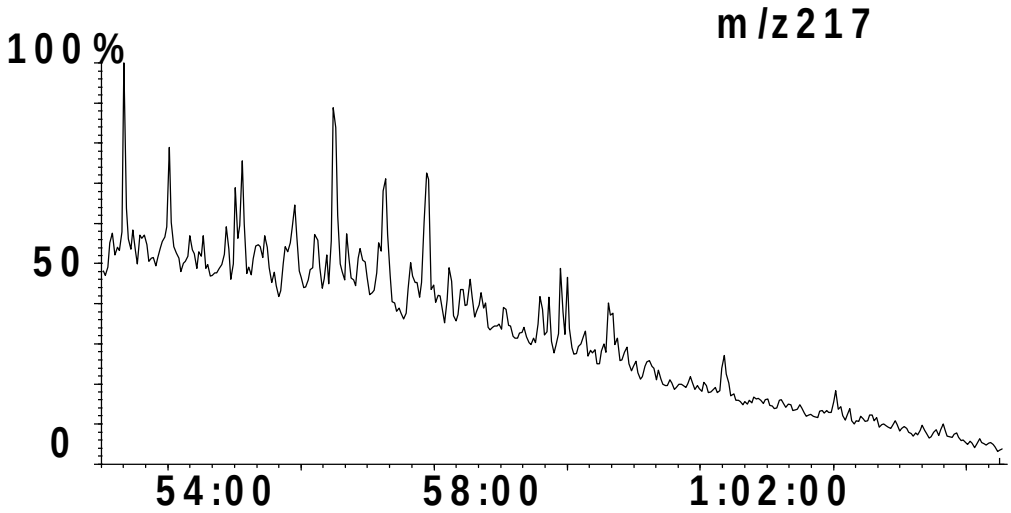
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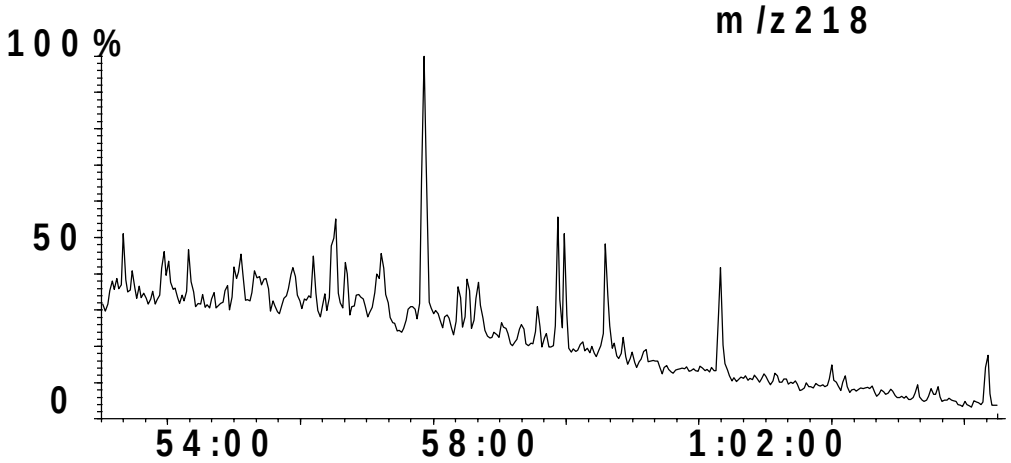
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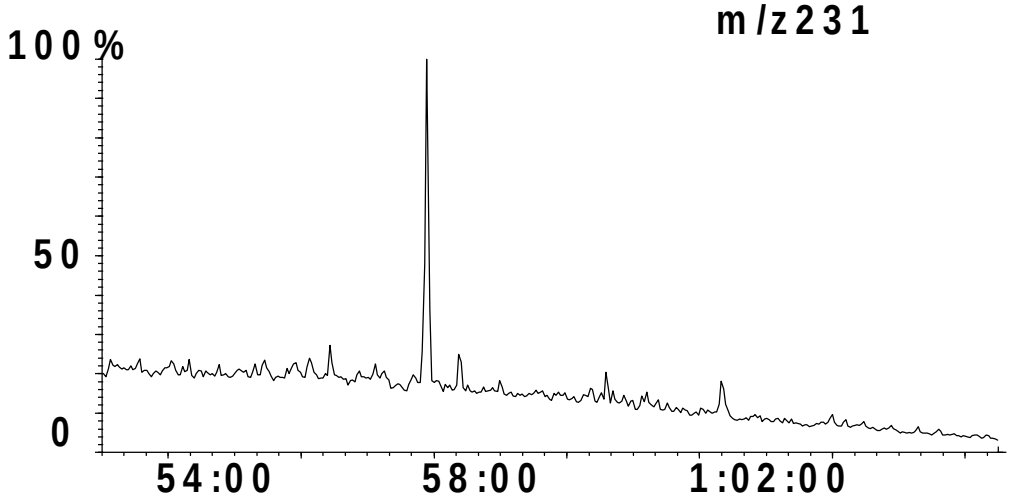
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Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

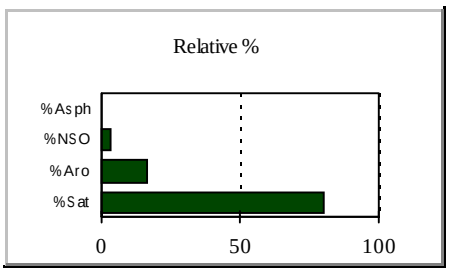
Country: **Australia**
Basin: **Browse**
Well: **Brecknock 1**
Test: **RFT 2, test 25**

Depth: **3878-3878m**
Age: **207.6 Ma**
Formation:

04-Jun-98
Sample ID: **10168**
LAT: -14.437
LONG: 121.6725

BULK PROPERTIES:

C15 + Composition
% Sat: **80.4**
% Aro: **16.4**
% NSO: **3.2**
% Asph: **0.0**
Sat/Aro= **4.89**
n-Paraffin/Naphthene= **0.61**



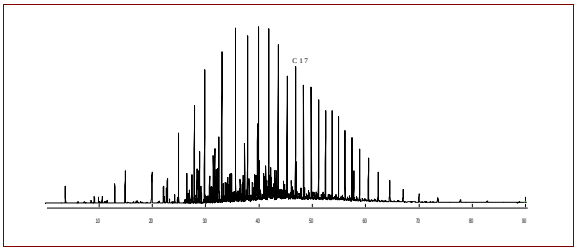
Stable Carbon Isotope Composition
δ per mil PDB

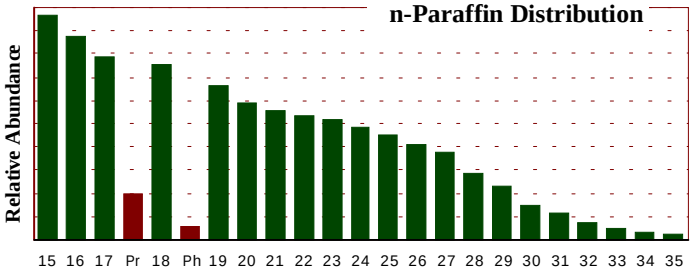
C15+ Saturate: **-26.74**
C15+ Aromatic: **-26.73**
Canonical Variable: **-3.34**

Comments: RFT 2, test 25

API Gravity: **0.0** %< C15: **11.9** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



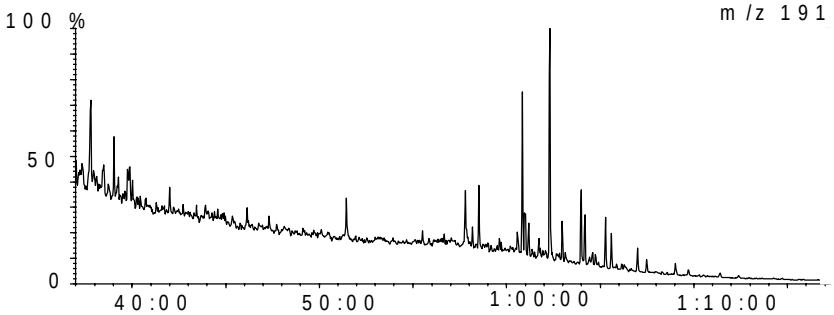


Pr/Ph: **3.21** Pr/n-C17: **0.25** Ph/n-C18: **0.08** n-C27/n-C17: **0.48** CPI: **1.09**

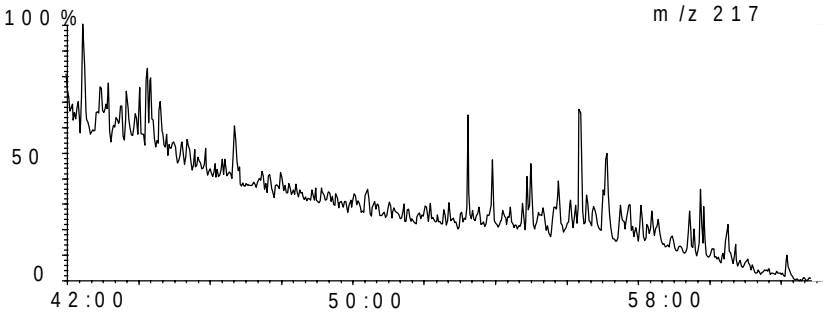
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **34**

Terpanes



Steranes

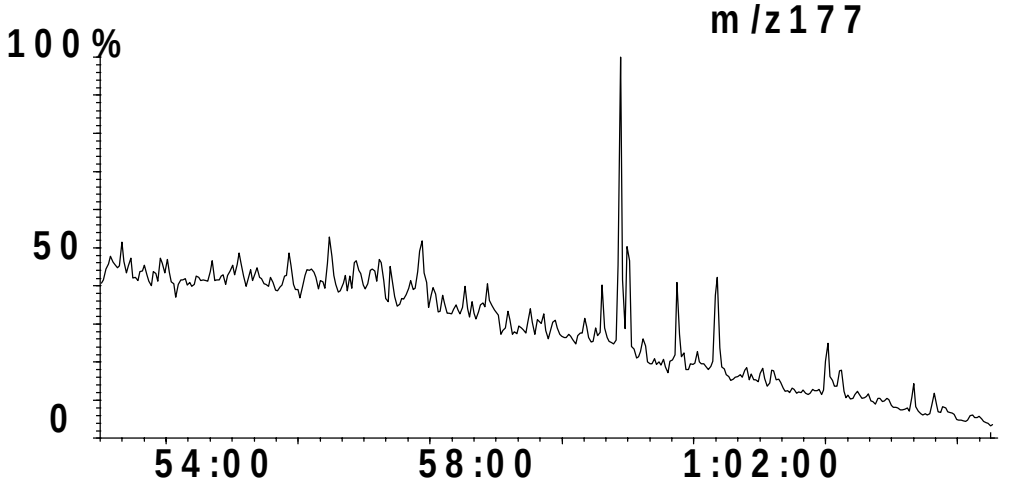


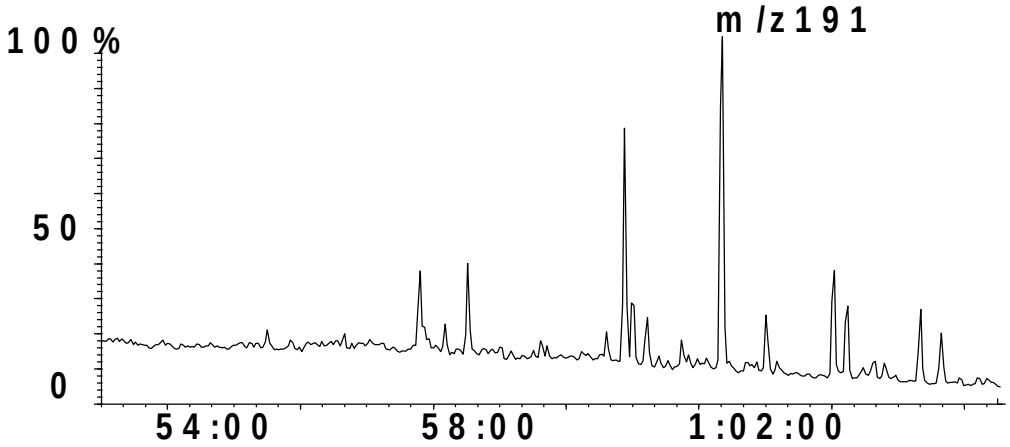
OilMod Ratios

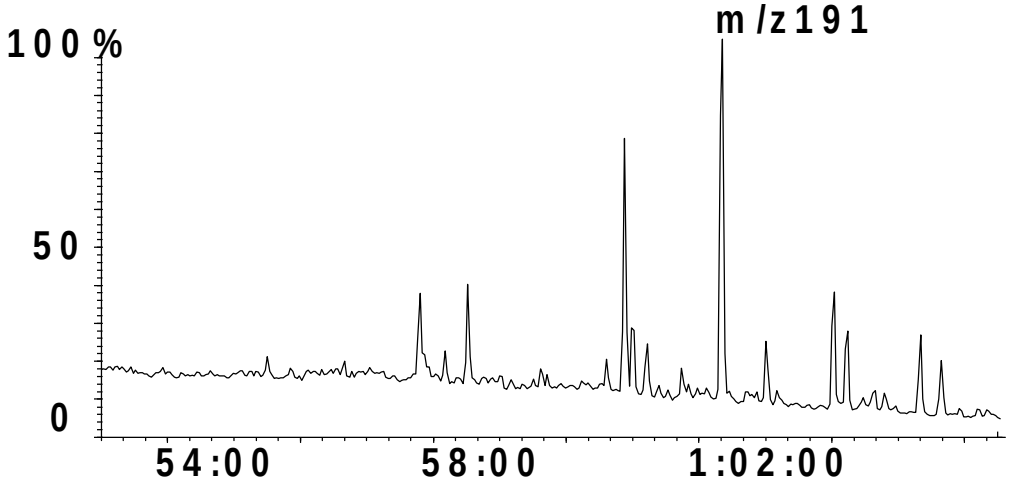
C19/C23= **5.20**
C22/C21= **0.52**
C24/C23= **0.74**
C26/C25= **0.44**
Tet/C23= **2.27**
C27T/C27= **0.02**
C28/H= **0.02**
C29/H= **0.70**
C30X/H= **0.13**
OL/H= **0.03**
C31R/H= **0.21**
GA/C31R= **0.24**
C35S/C34S= **0.42**
Ster/Terp= **0.35**
Rearr/Reg = **2.85**
%C27= **48.5**
%C28= **6.7**
%C29= **44.8**
C29 20S/R= **1.04**
Ts/Tm= **0.88**
C29D/H= **0.25**
DM/H= **0.00**

AGSO GPO Box 375 Canberra ACT 2601 Australia Tel: (026) 2499515 Fax: (026) 2499983

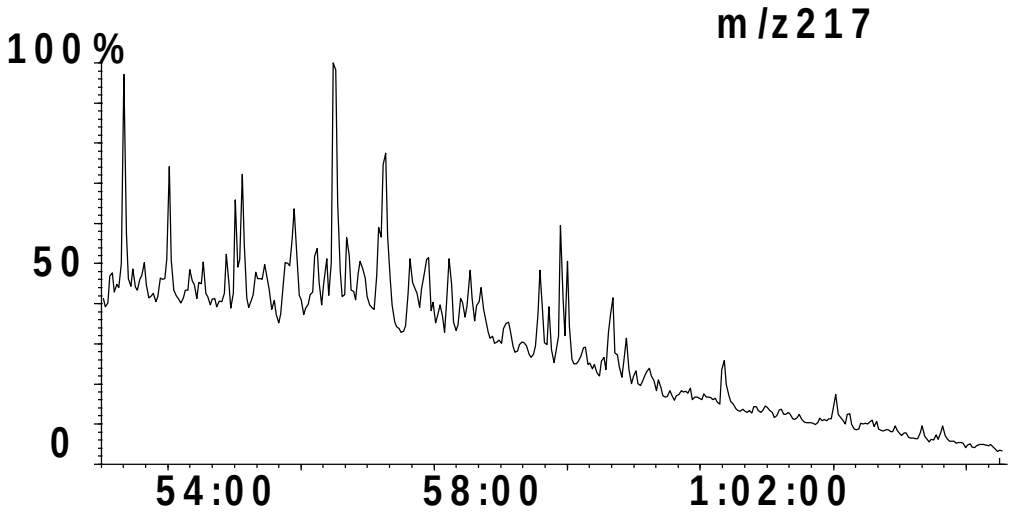
Country:	**Australia**	Depth:	**3878-3878m**		04-Jun-98
Basin:	**Browse**	Age:	**207.6 Ma**		Sample ID: **10168**
Well:	**Brecknock 1**	Formation:			LAT: -14.437
Test:	**RFT 2, test 25**				LONG: 121.6725

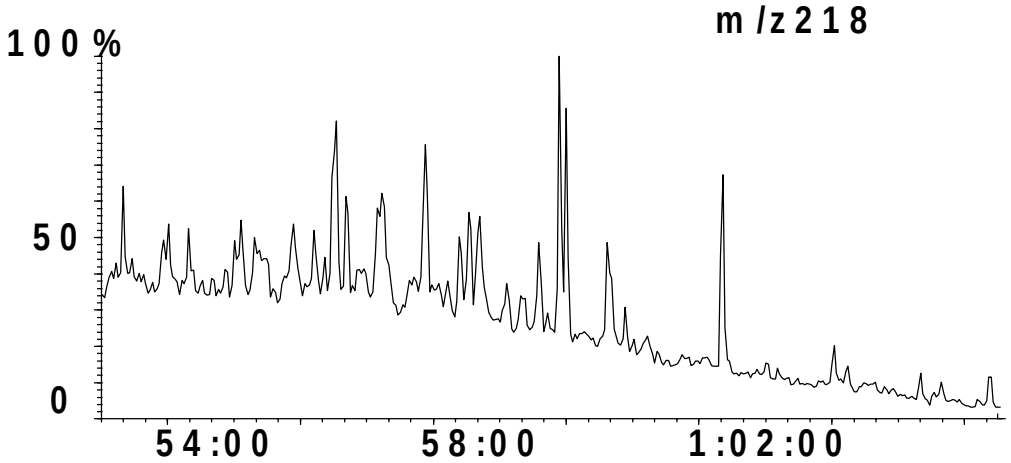


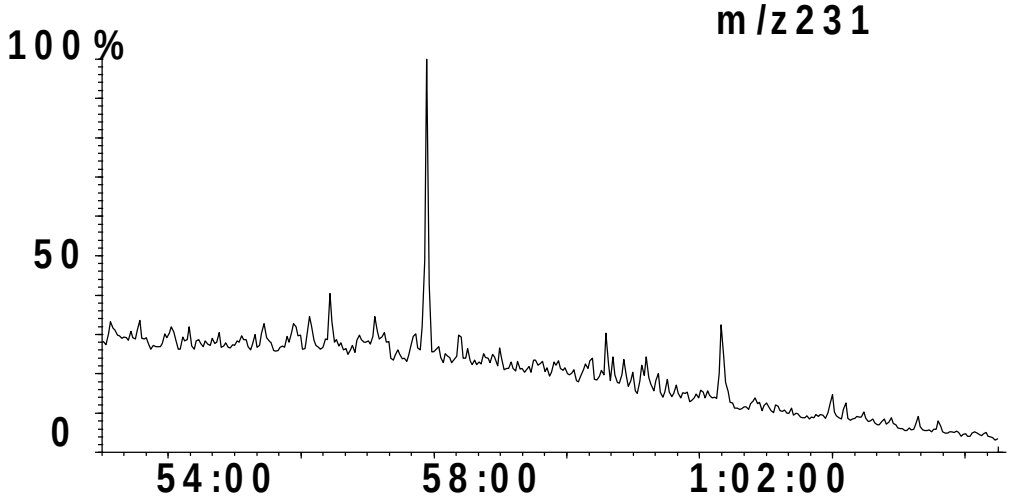




Country:	**Australia**	Depth:	**3878-3878m**		04-Jun-98
Basin:	**Browse**	Age:	**207.6 Ma**		Sample ID: **10168**
Well:	**Brecknock 1**	Formation:			LAT: -14.437
Test:	**RFT 2, test 25**				LONG: 121.6725







Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

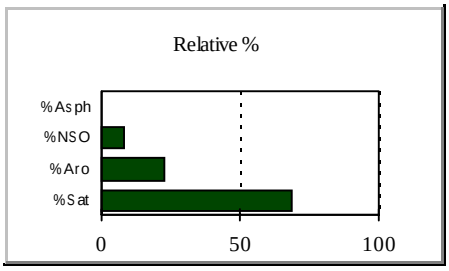
Country: **Australia**
Basin: **Browse**
Well: **Caswell 2**
Test: **RFT 1**

Depth: **3265.5-3265.5**
Age: **103 Ma**
Formation:

04-Jun-98
Sample ID: **10169**
LAT: -14.2425
LONG: 122.4695

BULK PROPERTIES:

C15 + Composition
% Sat: **68.3**
% Aro: **22.9**
% NSO: **8.1**
% Asph: **0.7**
Sat/Aro= **2.98**
n-Paraffin/Naphthene= **0.41**



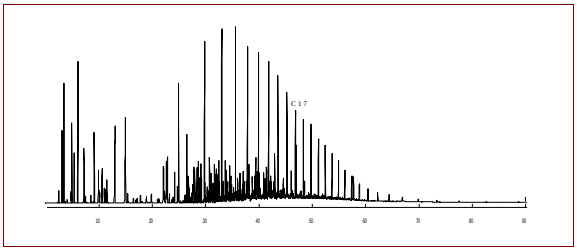
Stable Carbon Isotope Composition
δ per mil PDB

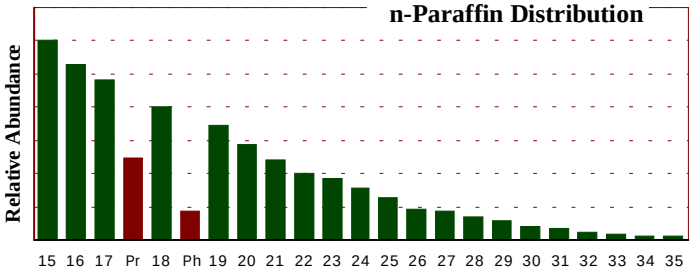
C15+ Saturate: **-29.56**
C15+ Aromatic: **-27.54**
Canonical Variable: **2.00**

Comments: RFT 1

API Gravity: **42.7** %< C15: **27.3** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



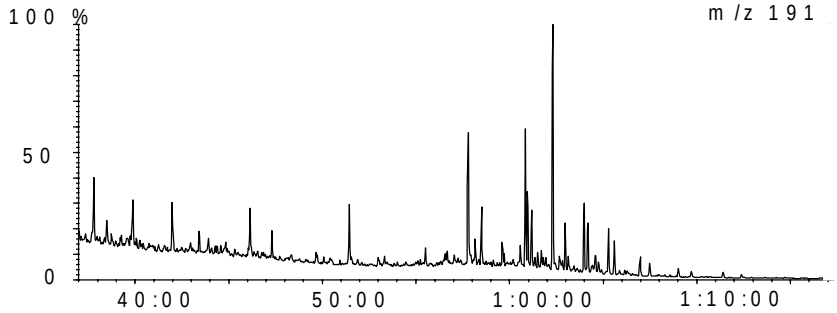


Pr/Ph: **2.94** Pr/n-C17: **0.51** Ph/n-C18: **0.21** n-C27/n-C17: **0.18** CPI: **1.12**

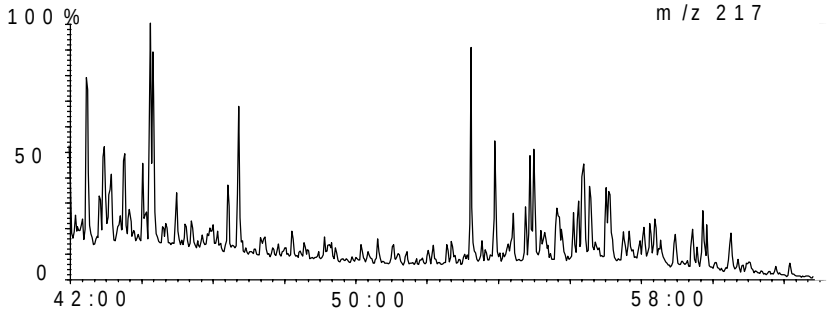
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **87**

Terpanes



Steranes



OilMod Ratios

C19/C23= **1.33**
C22/C21= **0.29**
C24/C23= **0.58**
C26/C25= **0.74**
Tet/C23= **1.10**
C27T/C27= **0.01**
C28/H= **0.02**
C29/H= **0.56**
C30X/H= **0.23**
OL/H= **0.01**
C31R/H= **0.19**
GA/C31R= **0.32**
C35S/C34S= **0.64**
Ster/Terp= **0.83**
Rearr/Reg = **3.29**
%C27= **53.8**
%C28= **18.8**
%C29= **27.4**
C29 20S/R= **0.93**
Ts/Tm= **2.33**
C29D/H= **0.54**
DM/H= **0.00**

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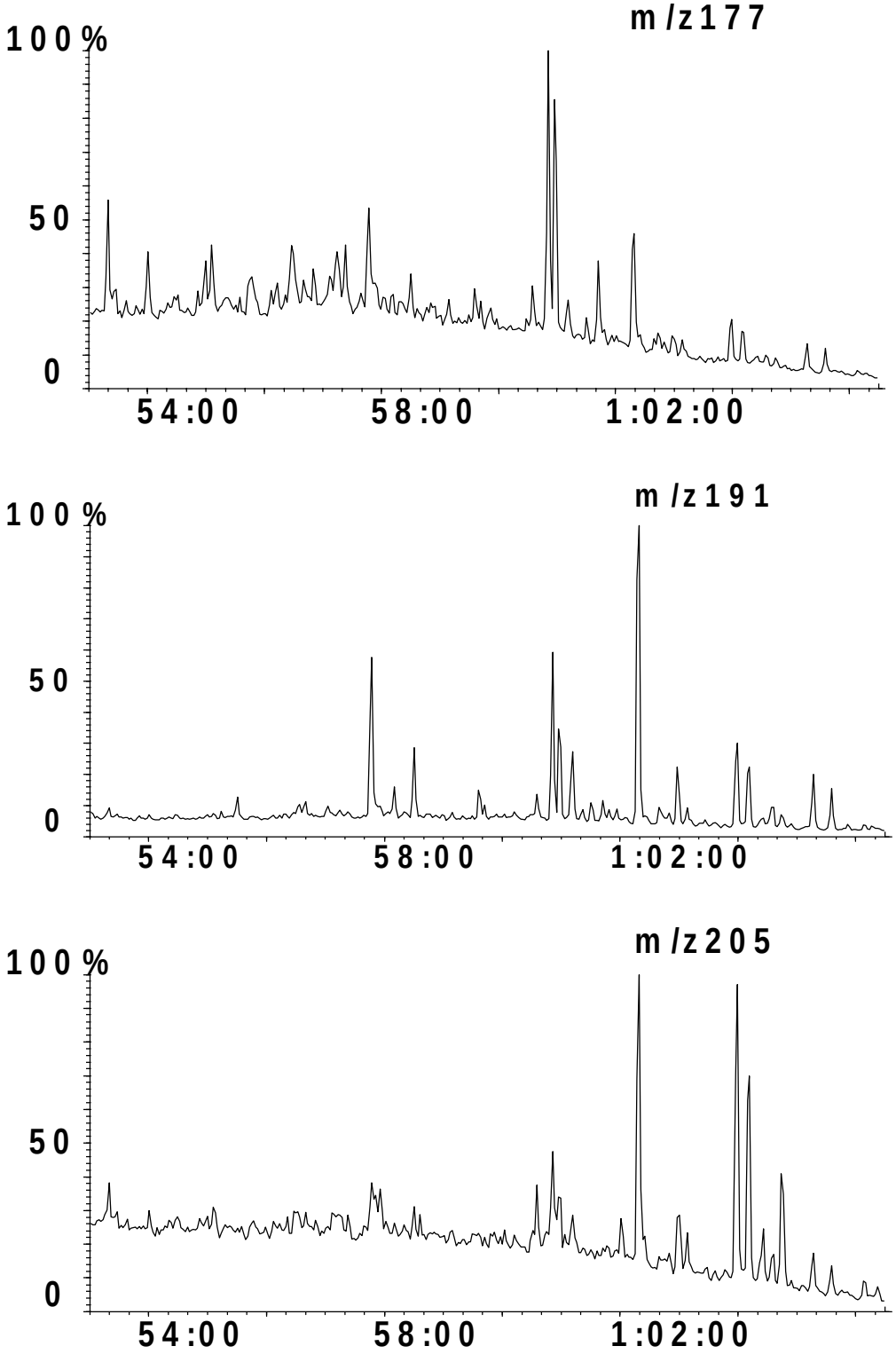
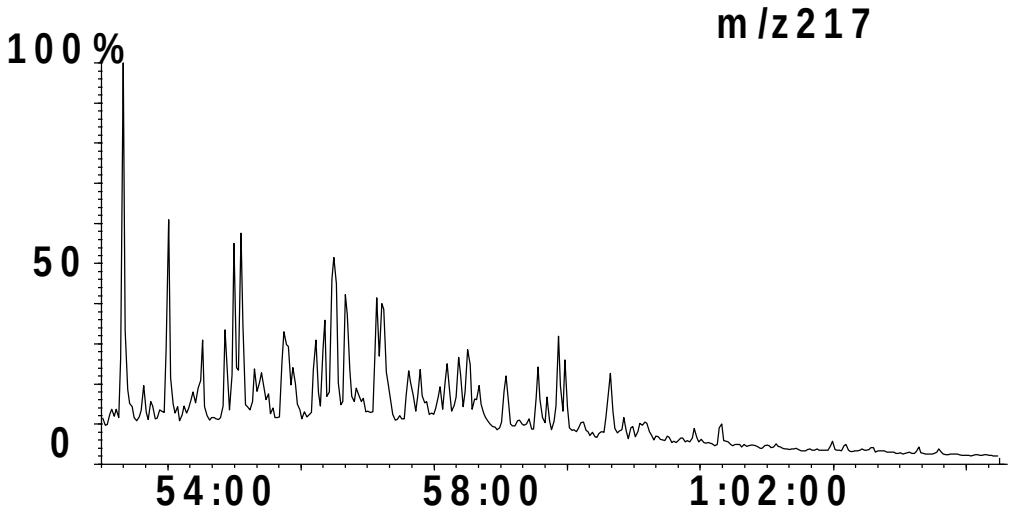
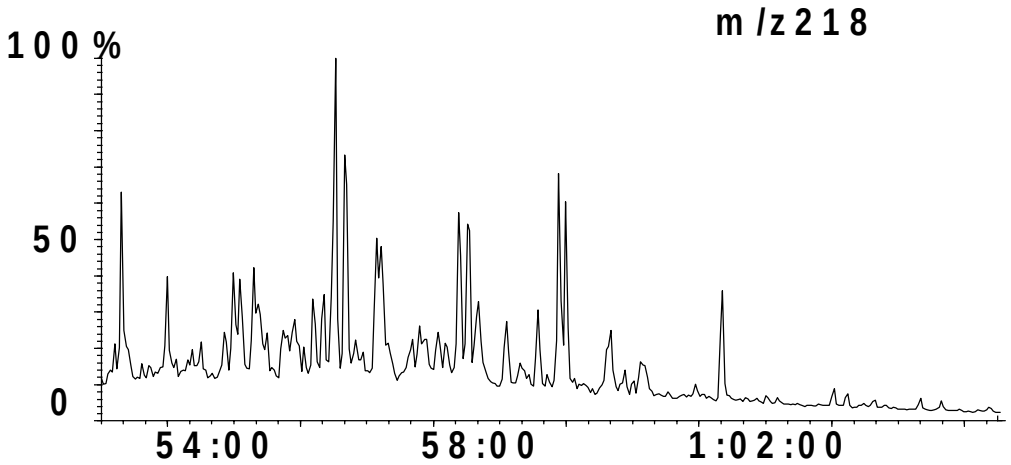
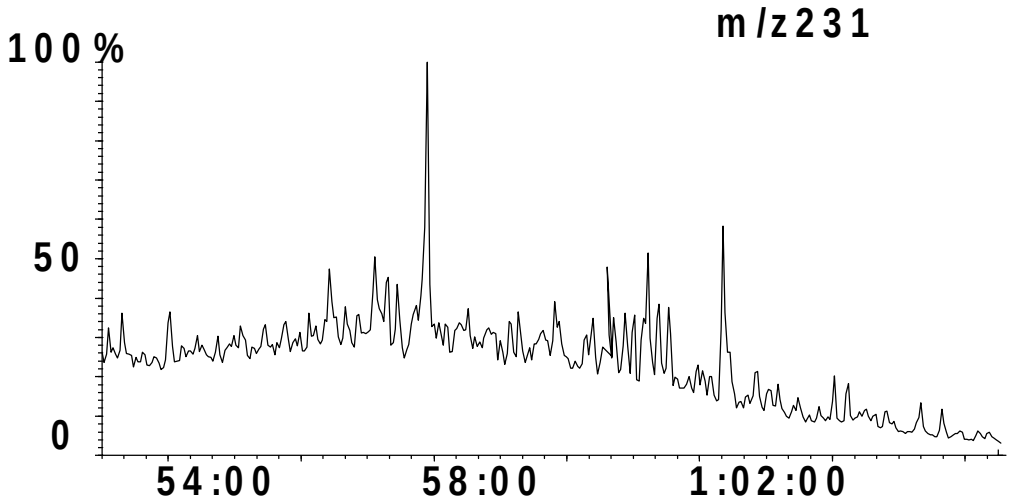
Country:	**Australia**	Depth:	**3265.5-3265.5**		04-Jun-98
Basin:	**Browse**	Age:	**103 Ma**		Sample ID: **10169**
Well:	**Caswell 2**	Formation:			LAT: -14.2425
Test:	**RFT 1**				LONG: 122.4695



Country:	**Australia**	Depth:	**3265.5-3265.5**		04-Jun-98
Basin:	**Browse**	Age:	**103 Ma**		Sample ID: **10169**
Well:	**Caswell 2**	Formation:			LAT: -14.2425
Test:	**RFT 1**				LONG: 122.4695







Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

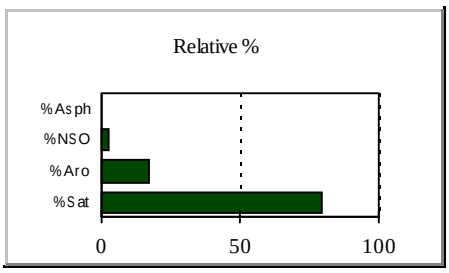
Country: **Australia**
Basin: **Browse**
Well: **Gwvdion 1**
Test: **RFT 1**

Depth: **813-813m**
Age: **Haut.-Lw Barremian**
Formation:

04-Jun-98
Sample ID: **10170**
LAT: -14.5112
LONG: 123.9807

BULK PROPERTIES:

C15 + Composition
% Sat: **79.8**
% Aro: **17.3**
% NSO: **2.4**
% Asph: **0.5**
Sat/Aro= **4.61**
n-Paraffin/Naphthene= **0.39**



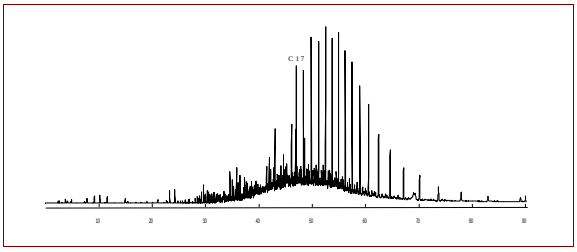
Stable Carbon Isotope Composition
δ per mil PDB

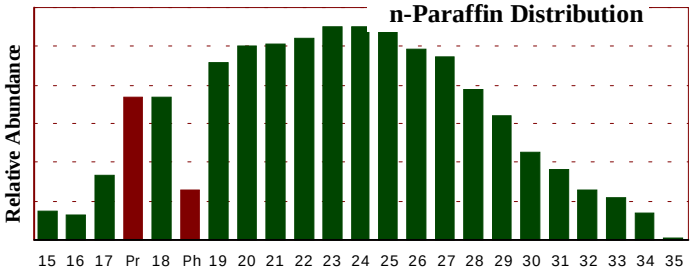
C15+ Saturate: **-28.61**
C15+ Aromatic: **-26.02**
Canonical Variable: **2.97**

Comments: RFT 1

API Gravity: **32.0** %< C15: **2.4** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



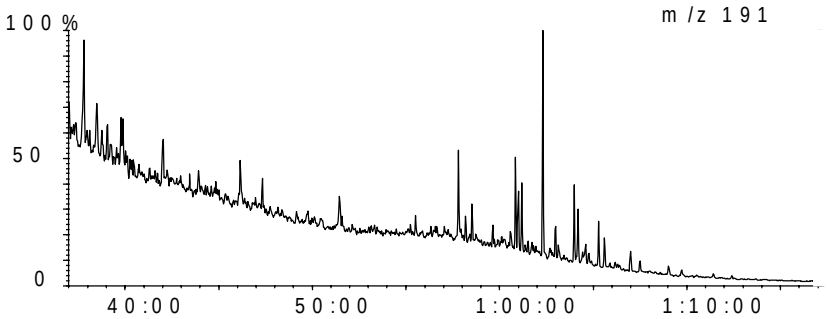


Pr/Ph: **2.90** Pr/n-C17: **2.21** Ph/n-C18: **0.35** n-C27/n-C17: **2.84** CPI: **1.08** ***Mildly biodegraded***

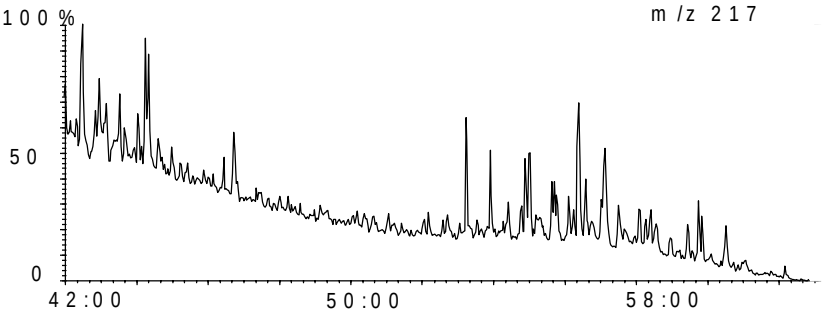
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **28**

Terpanes



Steranes



OilMod Ratios

C19/C23= **2.44**
C22/C21= **0.48**
C24/C23= **0.74**
C26/C25= **1.03**
Tet/C23= **0.73**
C27T/C27= **0.01**
C28/H= **0.04**
C29/H= **0.41**
C30X/H= **0.30**
OL/H= **0.01**
C31R/H= **0.23**
GA/C31R= **0.35**
C35S/C34S= **0.53**
Ster/Terp= **0.86**
Rearr/Reg = **3.04**
%C27= **44.6**
%C28= **12.1**
%C29= **43.2**
C29 20S/R= **0.76**
Ts/Tm= **2.47**
C29D/H= **0.63**
DM/H= **0.00**

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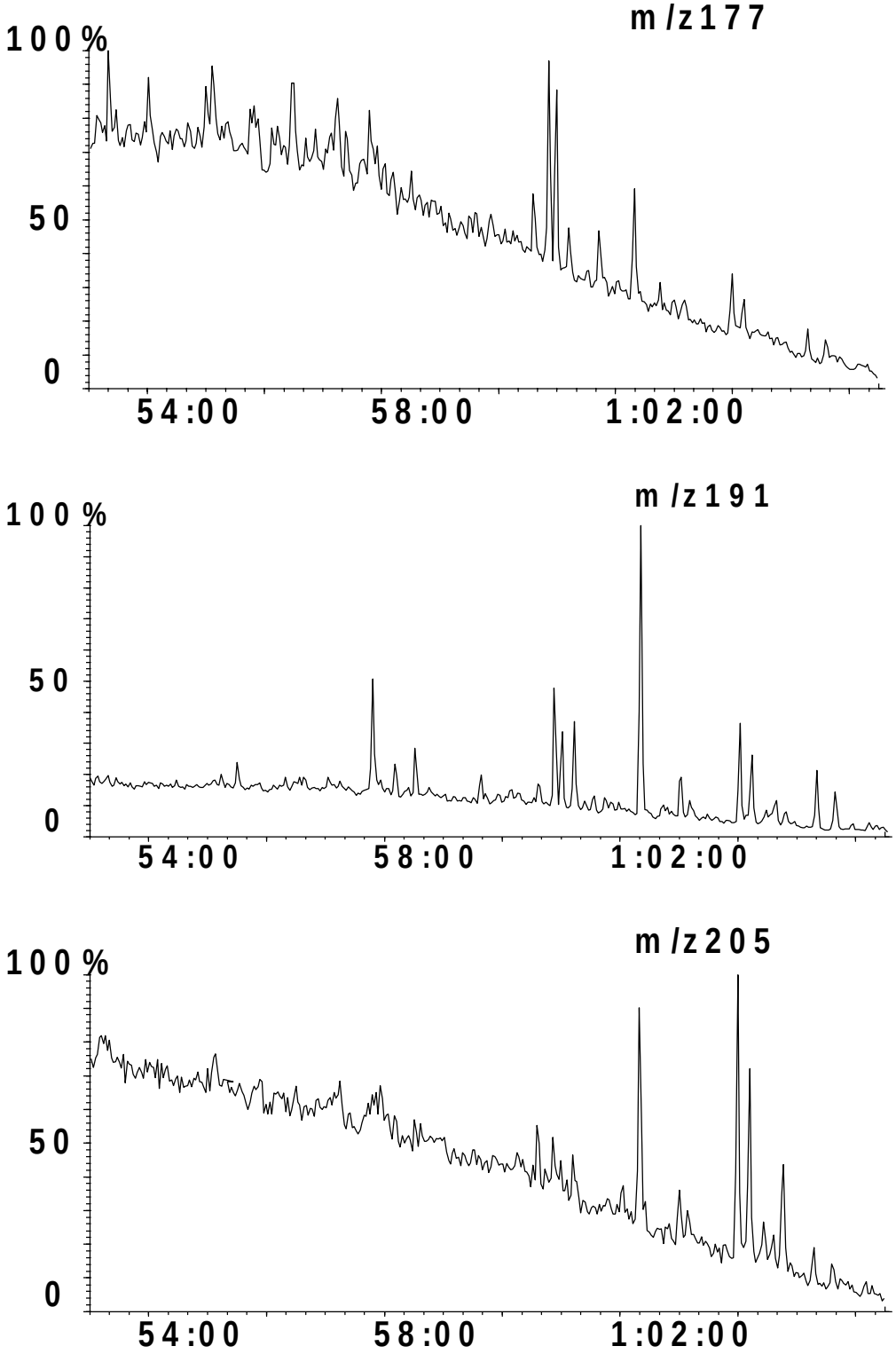
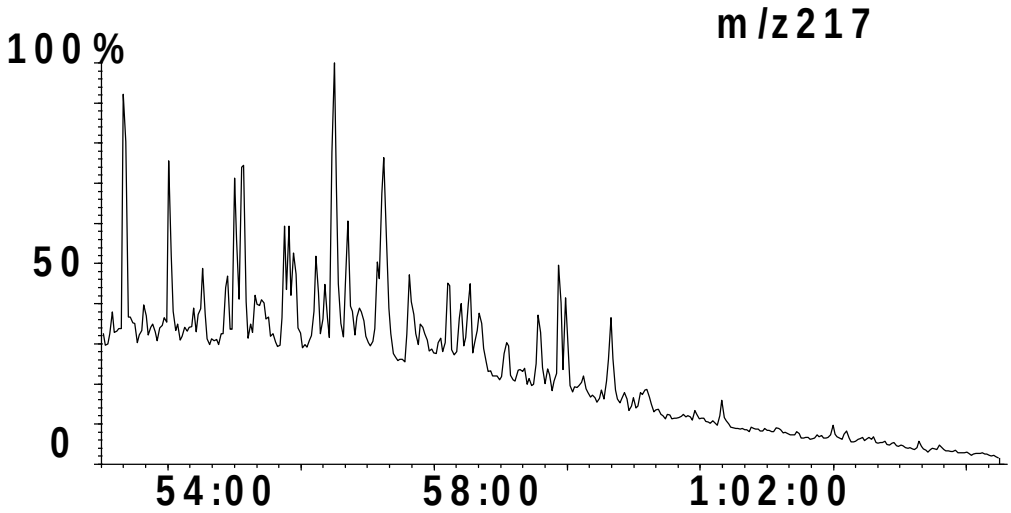
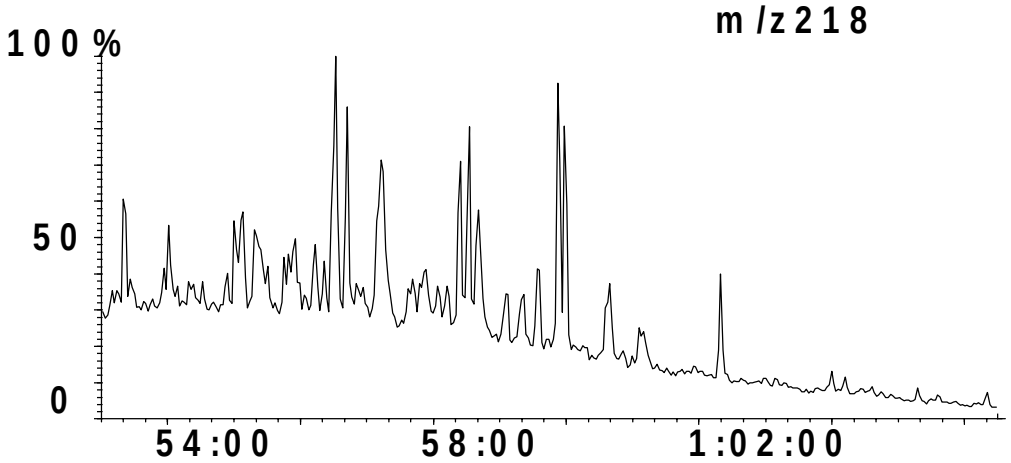
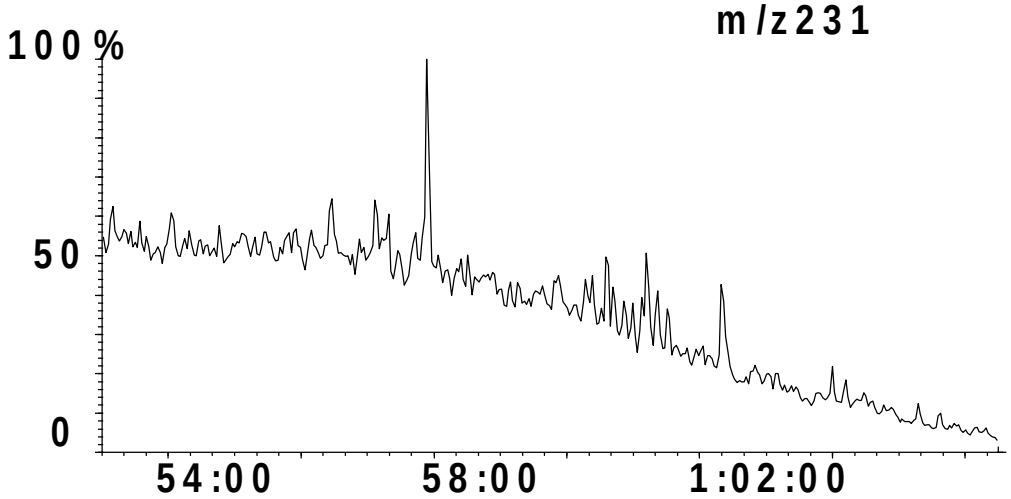
Country:	**Australia**	Depth:	**813-813m**		04-Jun-98
Basin:	**Browse**	Age:	**Haut.-Lw Barremian**		Sample ID: **10170**
Well:	**Gwvdion 1**	Formation:			LAT: -14.5112
Test:	**RFT 1**				LONG: 123.9807



Country:	**Australia**	Depth:	**813-813m**		04-Jun-98
Basin:	**Browse**	Age:	**Haut.-Lw Barremian**		Sample ID: **10170**
Well:	**Gwvdion 1**	Formation:			LAT: -14.5112
Test:	**RFT 1**				LONG: 123.9807







Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

AGSO

GEOCHEMICAL SUMMARY SHEET

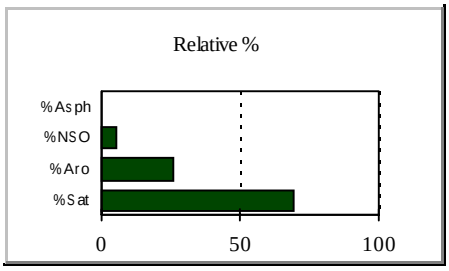
Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test: **RFT**

Depth: **4541-4541m**
Age: **137 Ma**
Formation: **Swan Gp/U Vulcan Fm**

04-Jun-98
Sample ID: **10171**
LAT: -13.0332
LONG: 123.8723

BULK PROPERTIES:

C15 + Composition
% Sat: **68.9**
% Aro: **25.9**
% NSO: **5.2**
% Asph: **0.0**
Sat/Aro= **2.66**
n-Paraffin/Naphthene= **0.65**



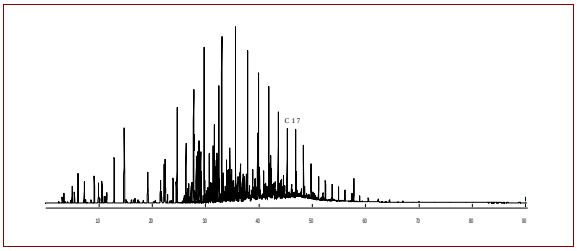
Stable Carbon Isotope Composition
δ per mil PDB

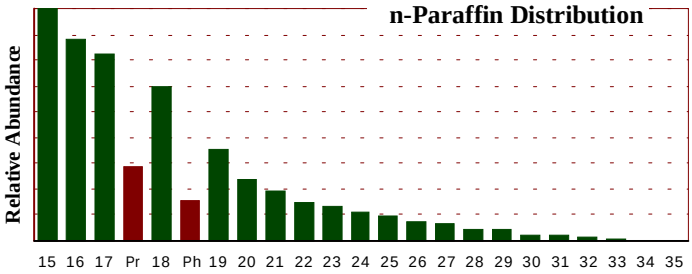
C15+ Saturate: **-28.66**
C15+ Aromatic: **-30.41**
Canonical Variable: **-6.65**

Comments: eased hole RFT

API Gravity: **39.1** %< C15: **22.6** ppm V: pm Ni: **0**

GAS CHROMATOGRAPHY:



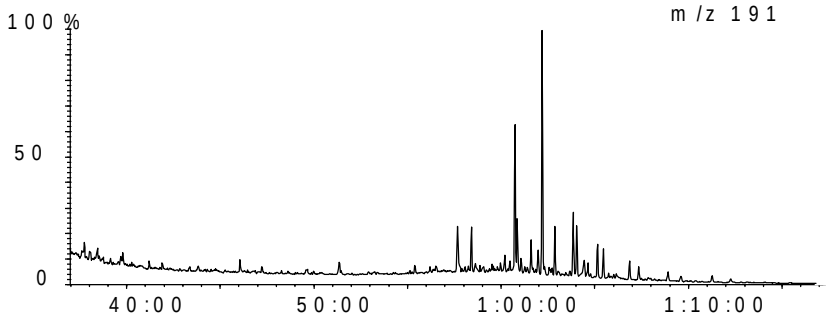


Pr/Ph: **1.83** Pr/n-C17: **0.40** Ph/n-C18: **0.26** n-C27/n-C17: **0.09** CPI: **1.16**

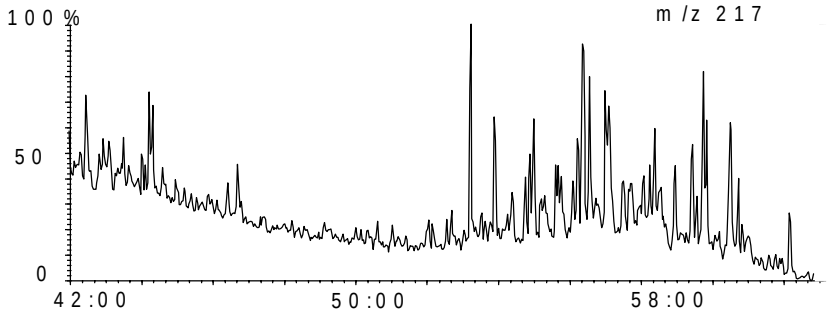
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **47**

Terpanes



Steranes



OilMod Ratios

C19/C23= **0.90**
C22/C21= **0.76**
C24/C23= **0.51**
C26/C25= **0.77**
Tet/C23= **0.95**
C27T/C27= **0.02**
C28/H= **0.03**
C29/H= **0.61**
C30X/H= **0.05**
OL/H= **0.09**
C31R/H= **0.20**
GA/C31R= **0.30**
C35S/C34S= **0.75**
Ster/Terp= **0.30**
Rearr/Reg = **1.68**
%C27= **40.6**
%C28= **20.0**
%C29= **39.4**
C29 20S/R= **0.73**
Ts/Tm= **1.02**
C29D/H= **0.36**
DM/H= **0.00**

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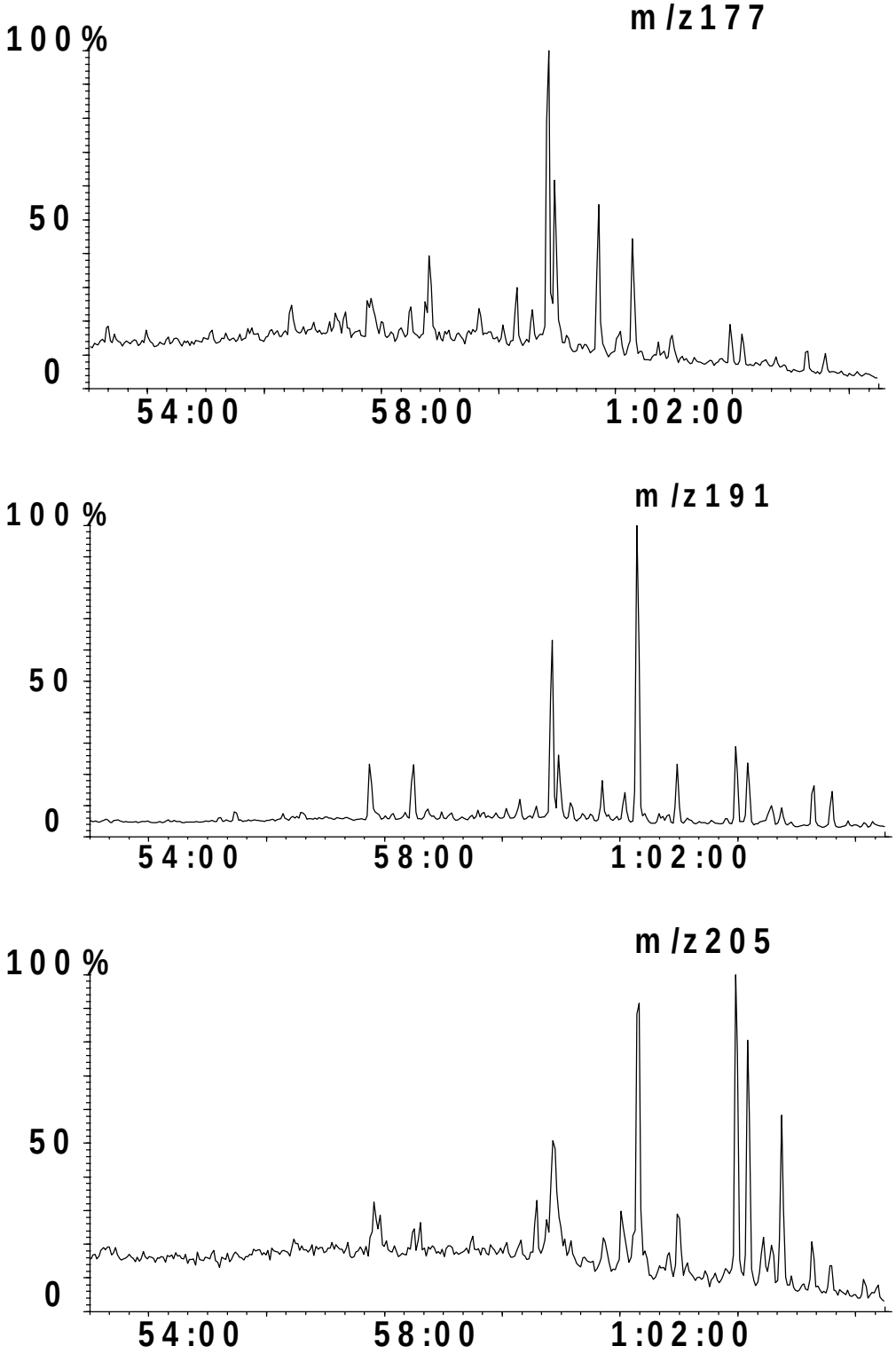
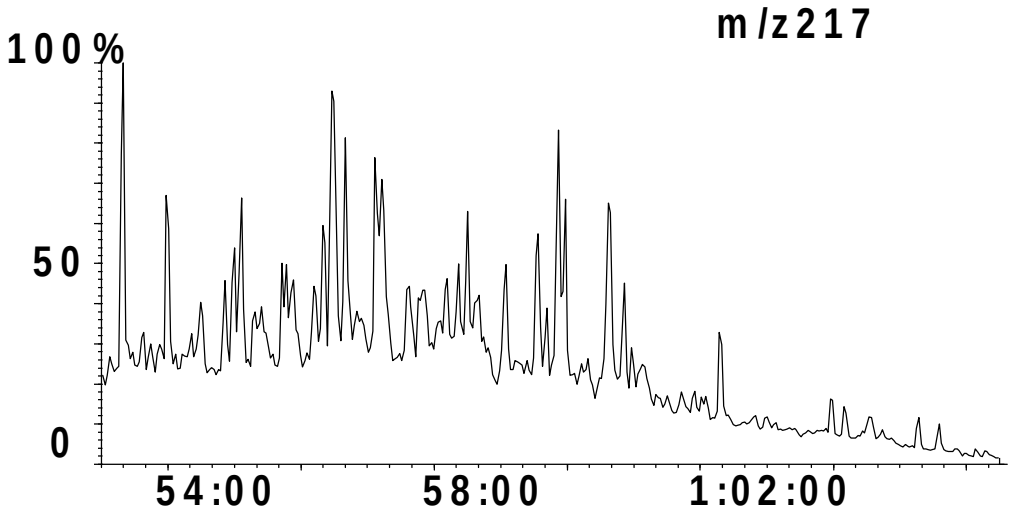
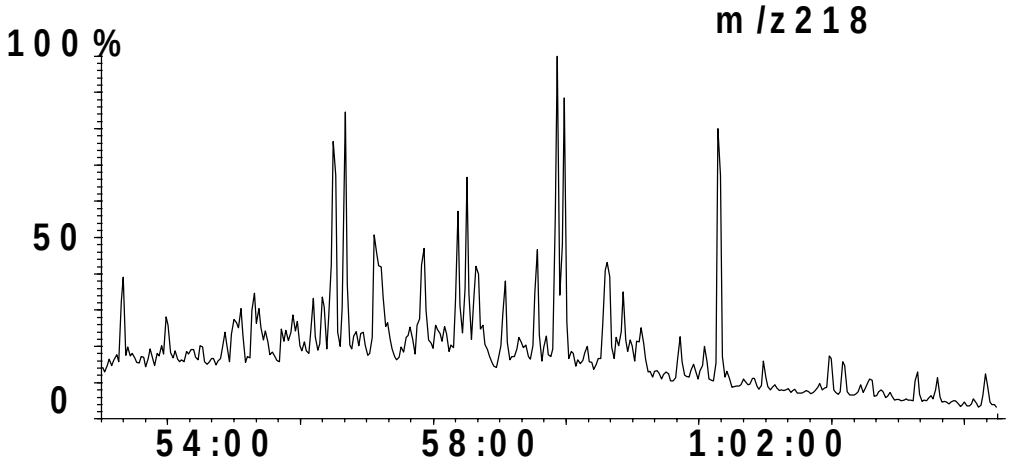
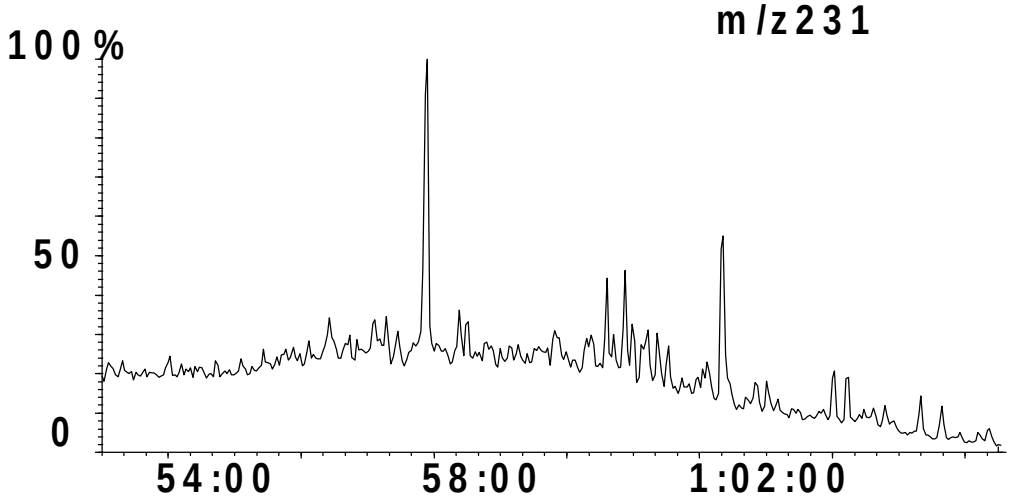
Country:	**Australia**	Depth:	**4541-4541m**		04-Jun-98
Basin:	**Browse**	Age:	**137 Ma**		Sample ID: **10171**
Well:	**Kalyptea 1/ST1**	Formation:	**Swan Gp/U Vulcan Fm**		LAT: -13.0332
Test:	**RFT**				LONG: 123.8723



Country:	**Australia**	Depth:	**4541-4541m**		04-Jun-98
Basin:	**Browse**	Age:	**137 Ma**		Sample ID: **10171**
Well:	**Kalyptea 1/ST1**	Formation:	**Swan Gp/U Vulcan Fm**		LAT: -13.0332
Test:	**RFT**				LONG: 123.8723







Oils of OZ

NW Shelf Oil Study

Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

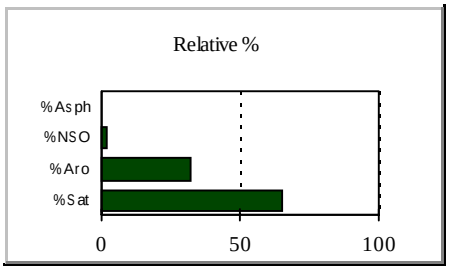
Country: **Australia**
Basin: **Browse**
Well: **Cornea 1**
Test: **RFT**

Depth: **804.2m**
Age:
Formation:

04-Jun-98
Sample ID: **10262**
LAT: -13.731575
LONG: 124.46015

BULK PROPERTIES:

C15 + Composition
% Sat: **65.1**
% Aro: **32.4**
% NSO: **2.3**
% Asph: **0.1**
Sat/Aro= **2.01**
n-Paraffin/Naphthene= **0.51**



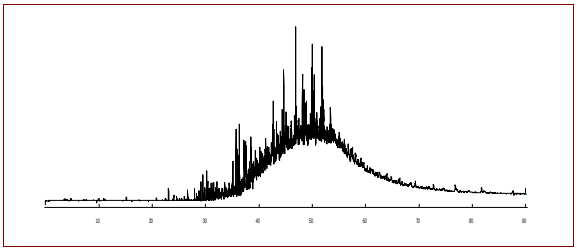
Stable Carbon Isotope Composition
δ per mil PDB

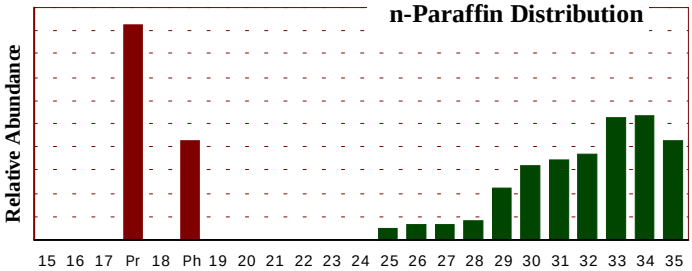
C15+ Saturate: **-28.37**
C15+ Aromatic: **-27.55**
Canonical Variable: **-1.03**

Comments:

API Gravity: **24.1** %< C15: **0.9** ppm V: pm Ni:

GAS CHROMATOGRAPHY:



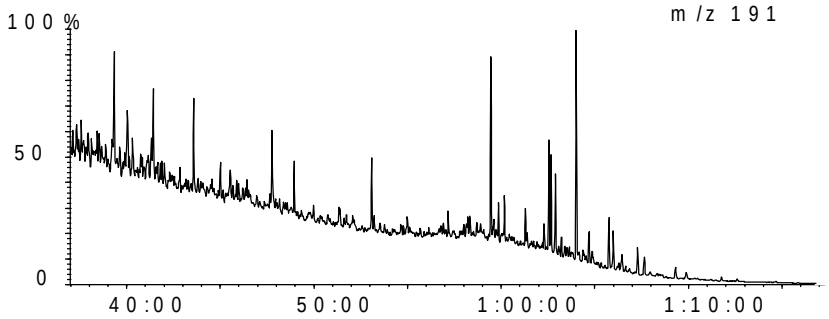


Pr/Ph: **2.18** Pr/n-C17: Ph/n-C18: n-C27/n-C17: CPI: ***Moderately biodegraded***

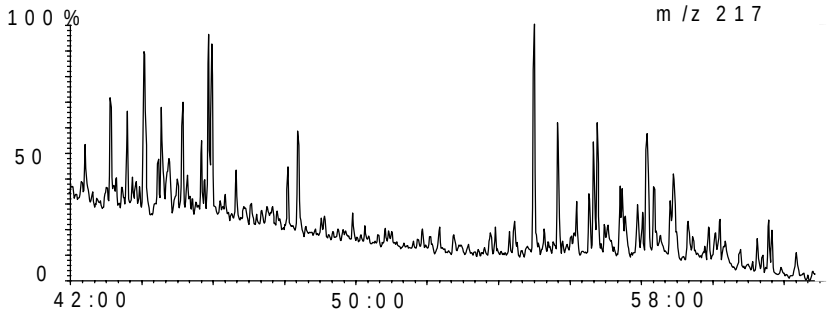
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **105**

Terpanes



Steranes

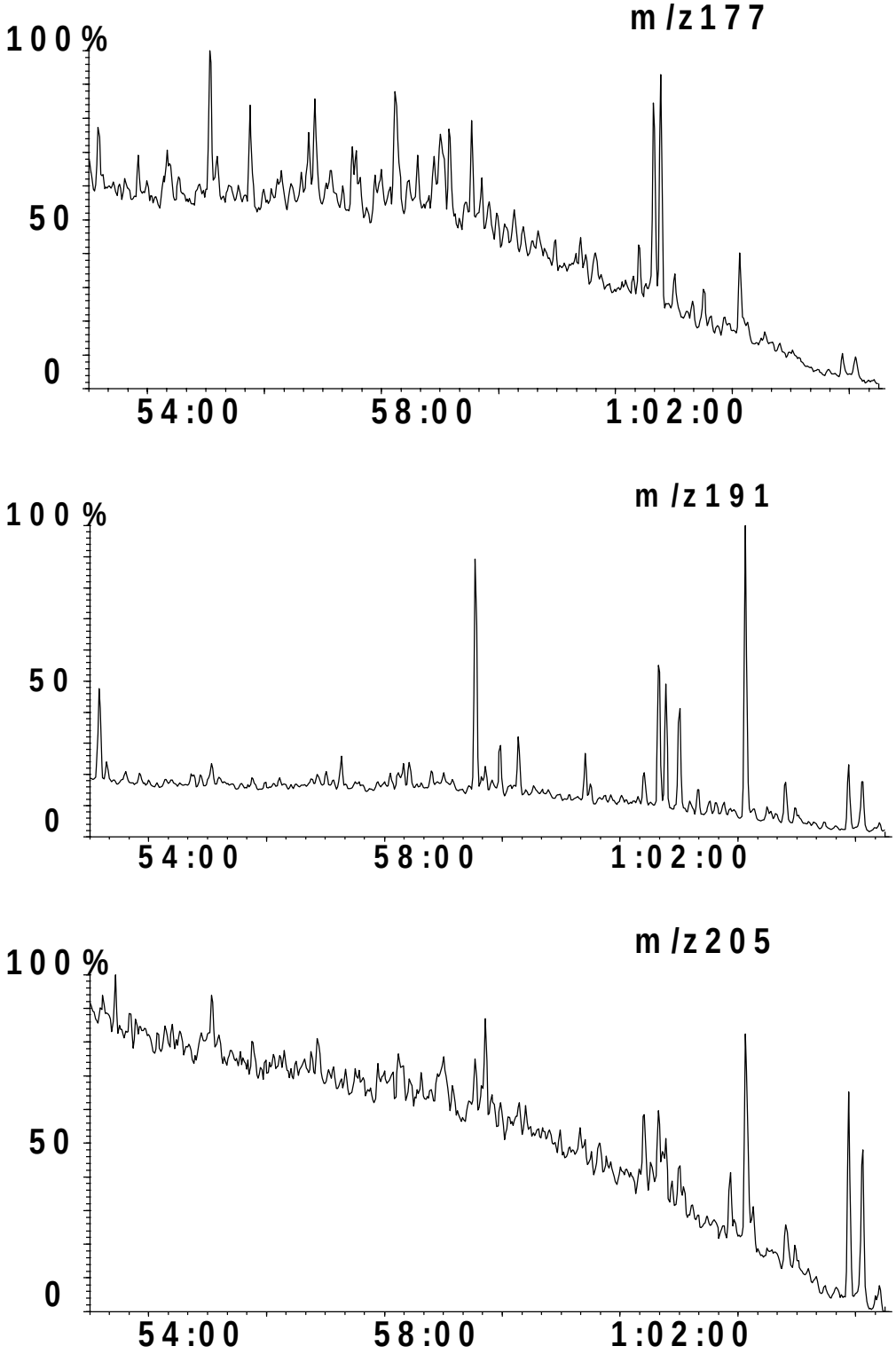


OilMod Ratios

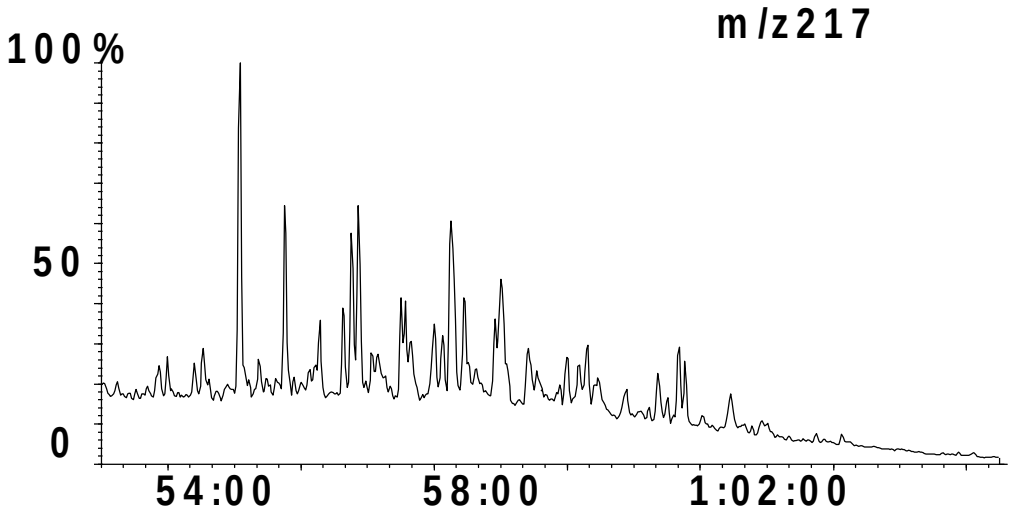
C19/C23= **1.45**
C22/C21= **0.29**
C24/C23= **0.68**
C26/C25= **0.84**
Tet/C23= **0.94**
C27T/C27= **0.00**
C28/H= **0.02**
C29/H= **0.48**
C30X/H= **0.34**
OL/H= **0.00**
C31R/H= **0.16**
GA/C31R= **0.41**
C35S/C34S= **0.31**
Ster/Terp= **0.60**
Rearr/Reg = **4.54**
%C27= **56.5**
%C28= **16.5**
%C29= **27.0**
C29 20S/R= **1.23**
Ts/Tm= **4.22**
C29D/H= **0.87**
DM/H= **0.00**

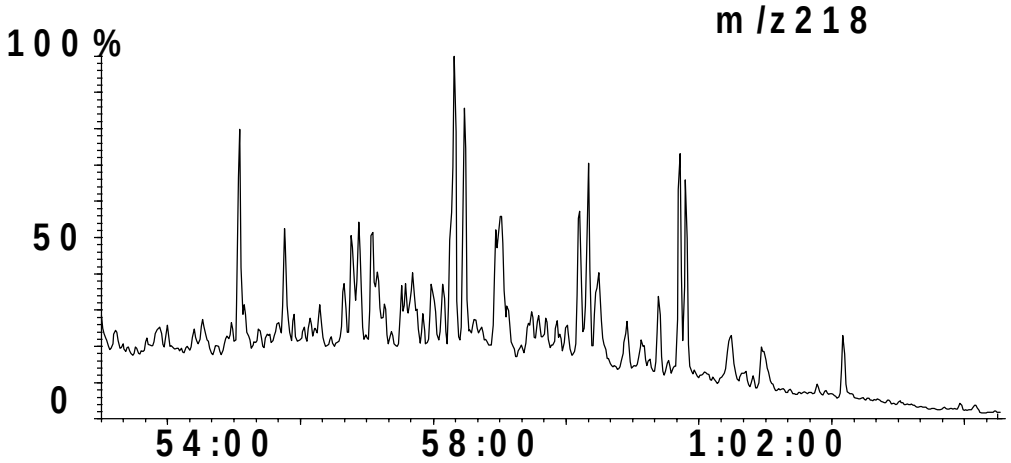
AGSO GPO Box 375 Canberra ACT 2601 Australia Tel: (026) 2499515 Fax: (026) 2499983

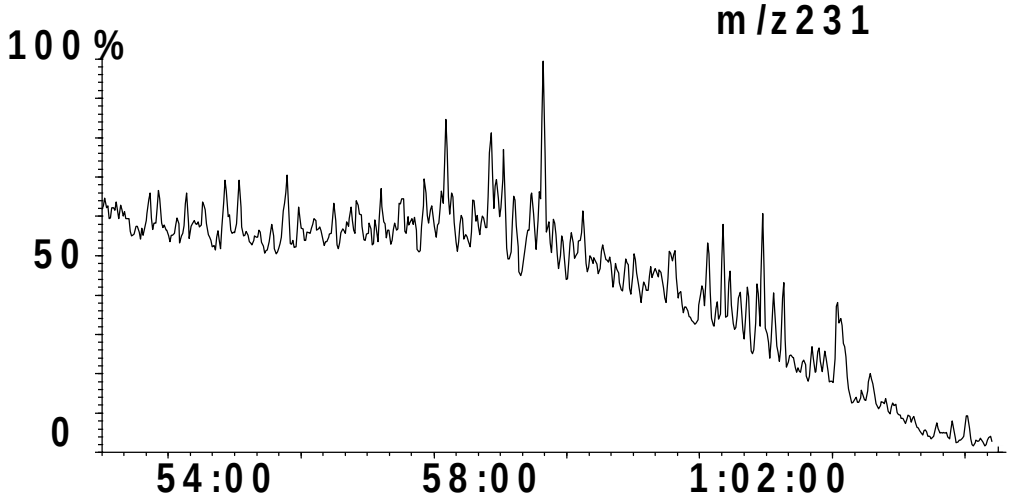
Country:	**Australia**	Depth:	**804.2m**		04-Jun-98
Basin:	**Browse**	Age:			Sample ID: **10262**
Well:	**Cornea 1**	Formation:			LAT: -13.731575
Test:	**RFT**				LONG: 124.46015



Country:	**Australia**	Depth:	**804.2m**		04-Jun-98
Basin:	**Browse**	Age:		Sample ID:	**10262**
Well:	**Cornea 1**	Formation:		LAT:	-13.731575
Test:	**RFT**			LONG:	124.46015







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4242-4252m**
Age: **(Ma)**
Formation:

04-Jun-98
Sample ID: **6375**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax
S1:
S2:
S3:
TOC
HI:
OI:
PI:
PC:
S2/S3:

C15+ Composition

EOM ppm:	**3141**
HC ppm:	**1396**
mgHC/gTOC	
% Sat:	**40.9**
% Aro:	**27.3**
% NSO:	**31.8**
% Asph:	**0.0**
Sats/Aro	**1.50**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

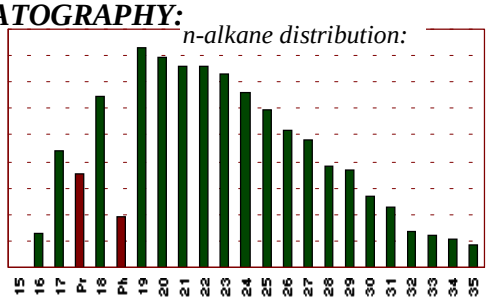
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

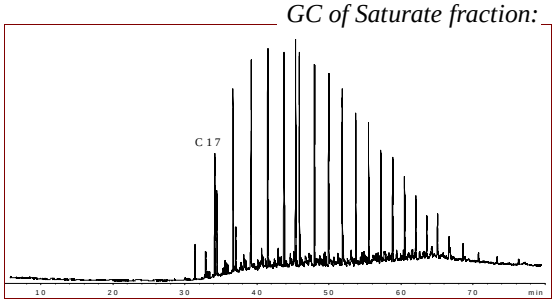
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.87**
Pr/n-C17:	**0.82**
Ph/n-C18:	**0.30**
n-C27/n-C17:	**1.10**
CPI 1:	**1.05**

n-alkane distribution:



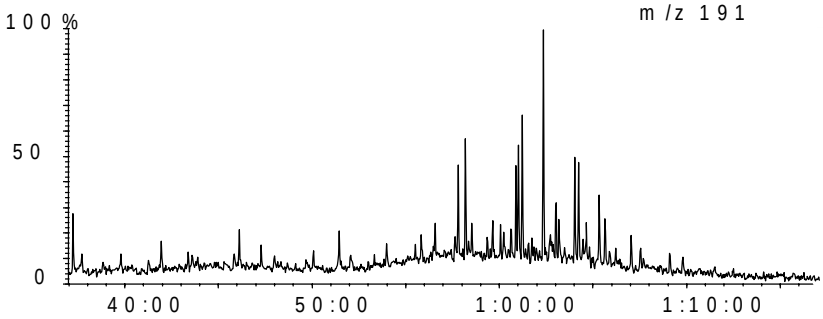
GC of Saturate fraction:



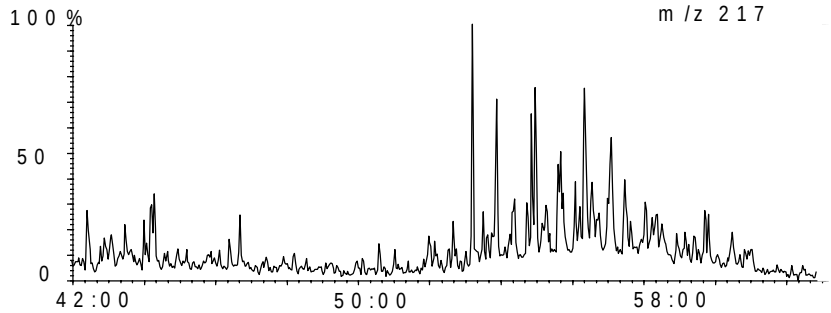
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

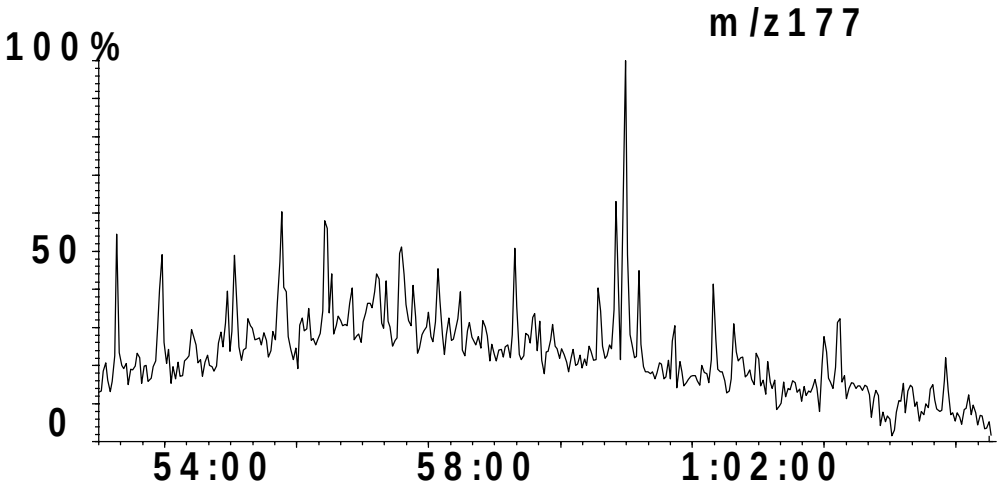


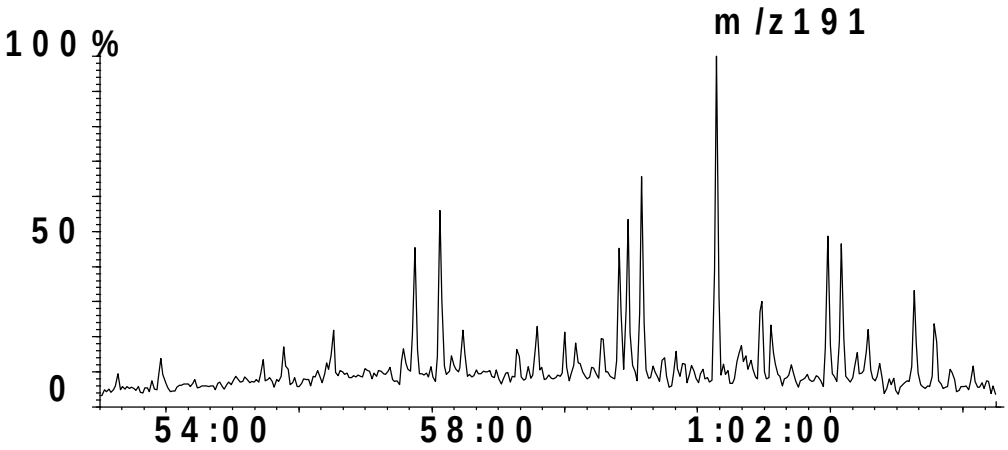
OilMod Ratios

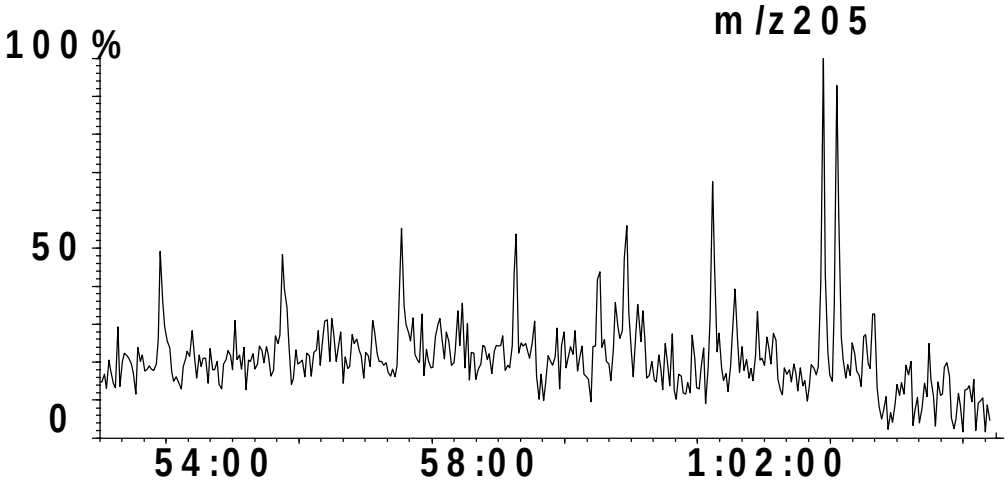
C19/C23=	**0.50**
C22/C21=	**0.44**
C24/C23=	**0.58**
C26/C25=	**0.78**
Tet/C23=	**0.78**
C27T/C27=	**0.03**
C28/H=	**0.10**
C29/H=	**0.40**
C30X/H=	**0.62**
Ol/H=	**0.03**
C31R/H=	**0.44**
GA/C31R=	**0.41**
C35S/C34S=	**0.54**
Ster/Terp=	**0.91**
Rearr/Reg=	**4.71**
%C27=	**49.90**
%C28=	**19.36**
%C29=	**30.74**
C29 20S/R=	**0.65**
Ts/Tm=	**2.90**
C29D/H=	**1.22**
DM/H=	**0.00**

Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

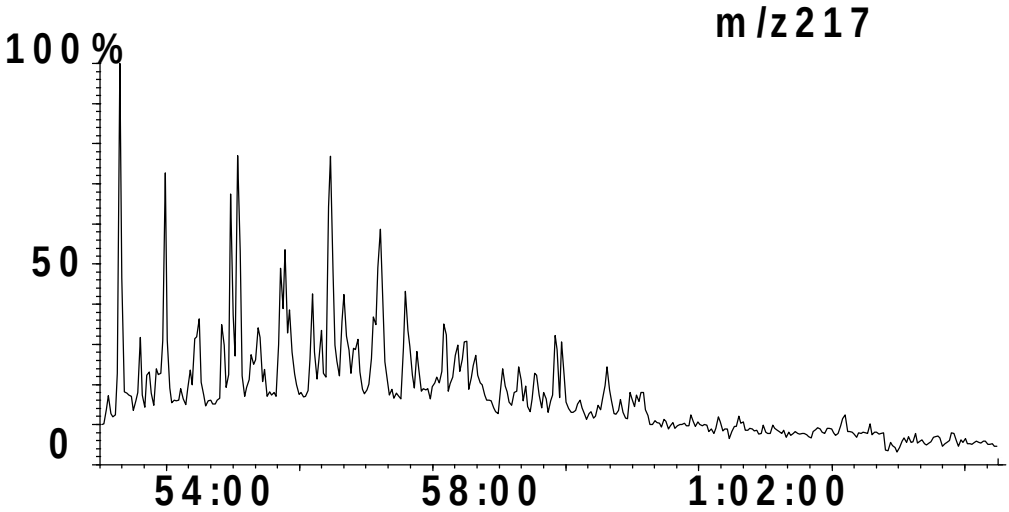
Country: **Australia**	Depth: **4242-4252m**	04-Jun-98
Basin: **Browse**	Age: **(Ma)**	Sample ID: **6375**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

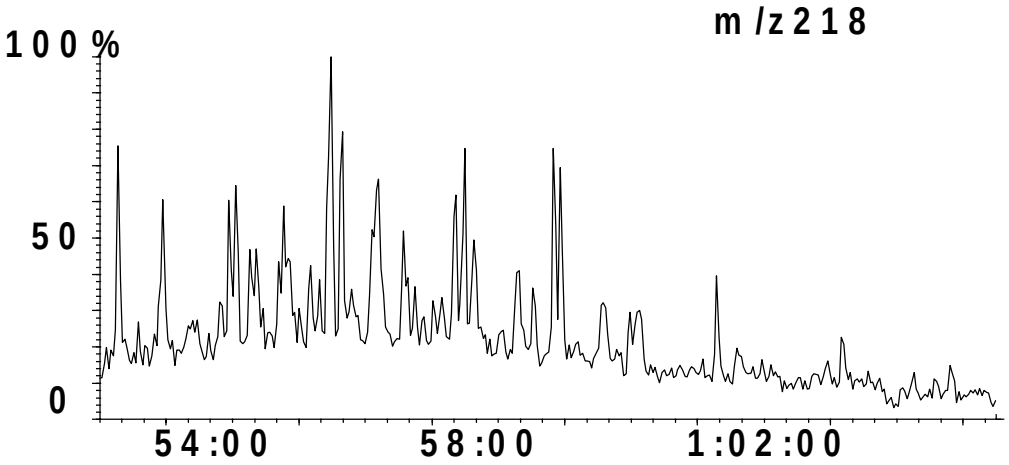


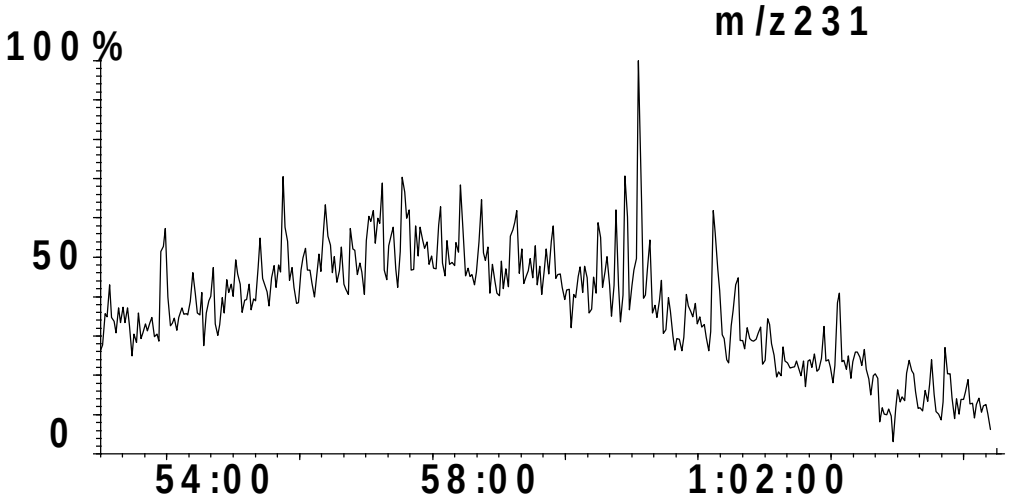




Country: **Australia**	Depth: **4242-4252m**	04-Jun-98
Basin: **Browse**	Age: **(Ma)**	Sample ID: **6375**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Heywood 1**
Test:

Depth: **4075-4085m**
Age: **145.3** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9190**
Lat: **-13.462683**
Long: **124.066725**

BULK PROPERTIES:

Rock Eval:

Tmax	**441**
S1:	**0.98**
S2:	**1.73**
S3:	**3.19**
TOC	**1.32**
HI:	**131.0**
OI:	**241.6**
PI:	**0.361**
PC:	**0.222**
S2/S3:	**0.54**

C15+ Composition

EOM ppm:	**3059**
HC ppm:	**1863**
mgHC/gTOC	**141.1**
% Sat:	**48.7**
% Aro:	**14.2**
% NSO:	**37.0**
% Asph:	**0.0**
Sats/Aro	**3.43**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.81**
C15+ Aromatic:	**-26.05**
kerogen:	
Canonical Variable	**-1.65**

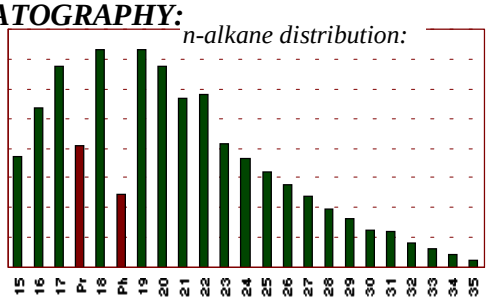
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

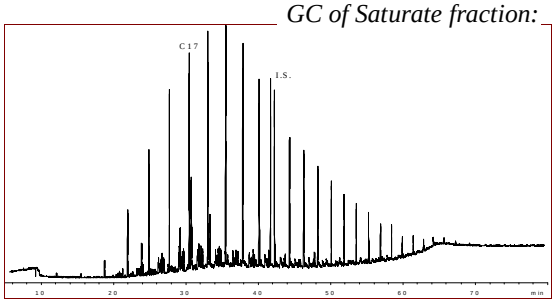
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.68**
Pr/n-C17:	**0.61**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.36**
CPI 1:	**0.96**

n-alkane distribution:



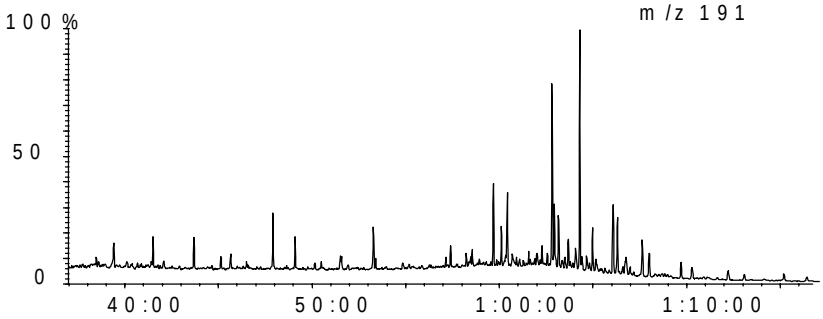
GC of Saturate fraction:



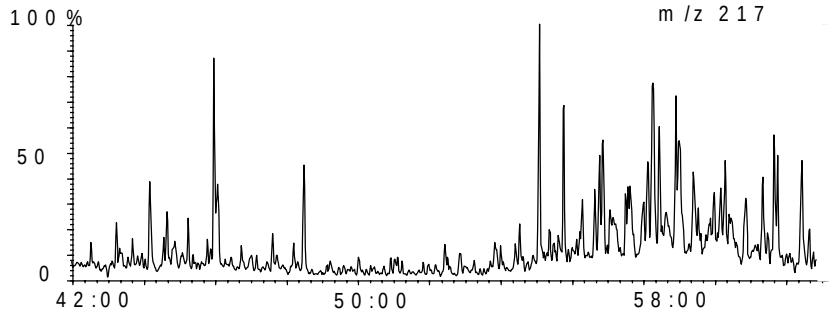
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

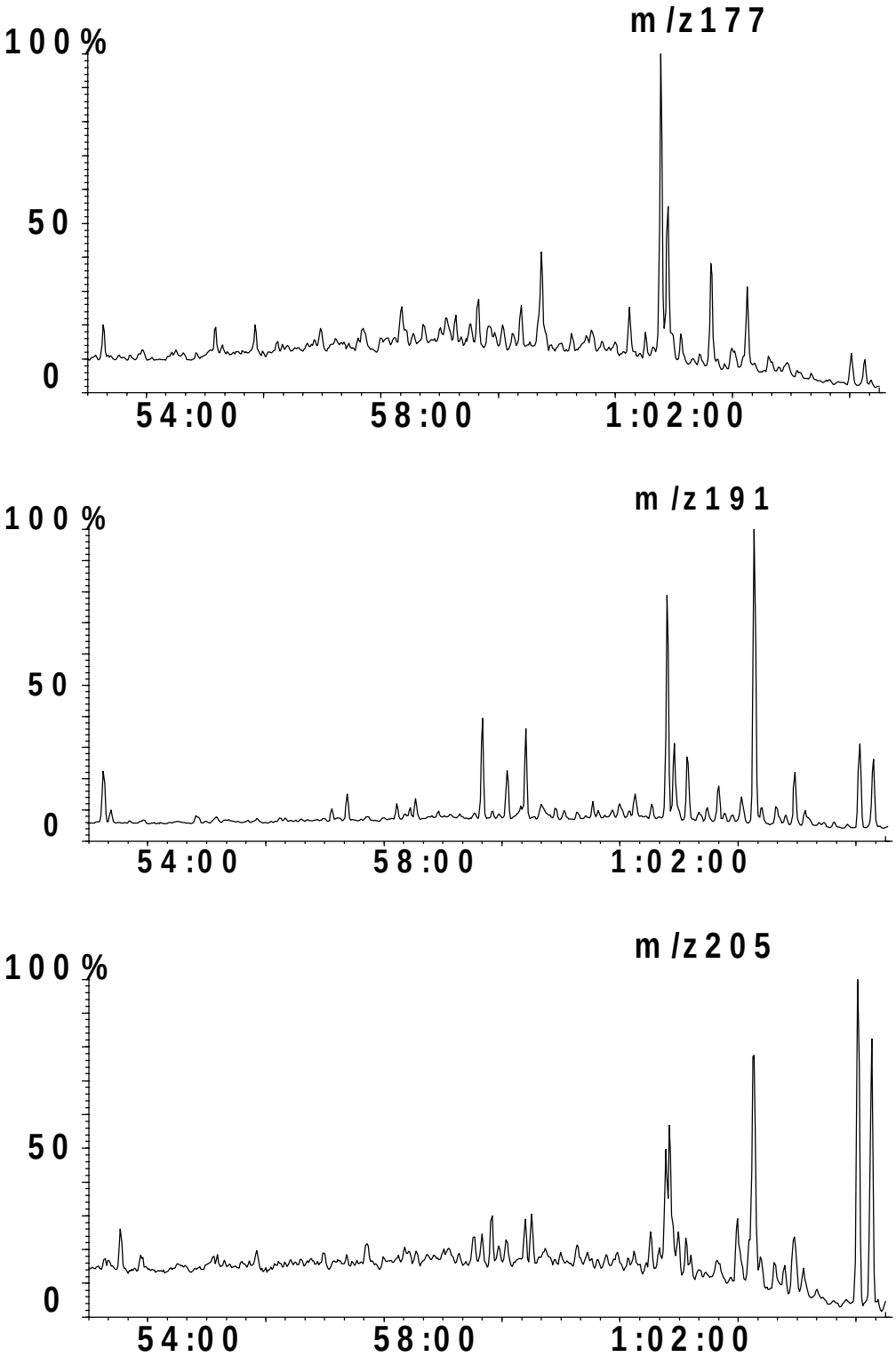


OilMod Ratios

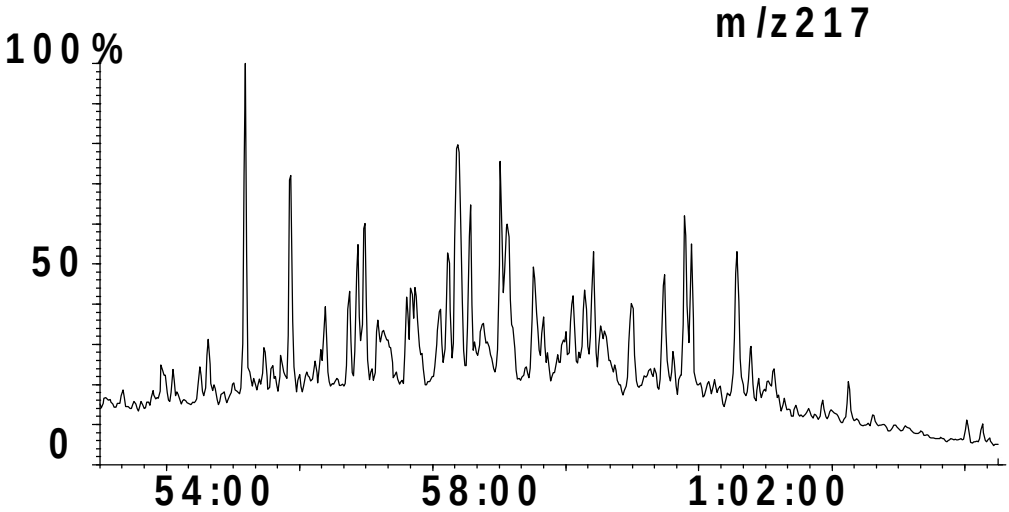
C19/C23=	**0.42**
C22/C21=	**0.48**
C24/C23=	**0.57**
C26/C25=	**0.79**
Tet/C23=	**0.75**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.77**
C30X/H=	**0.21**
Ol/H=	**0.08**
C31R/H=	**0.23**
GA/C31R=	**0.30**
C35S/C34S=	**0.80**
Ster/Terp=	**0.15**
Rearr/Reg=	**1.72**
%C27=	**47.25**
%C28=	**17.11**
%C29=	**35.65**
C29 20S/R=	**0.73**
Ts/Tm=	**1.12**
C29D/H=	**0.34**
DM/H=	**0.00**

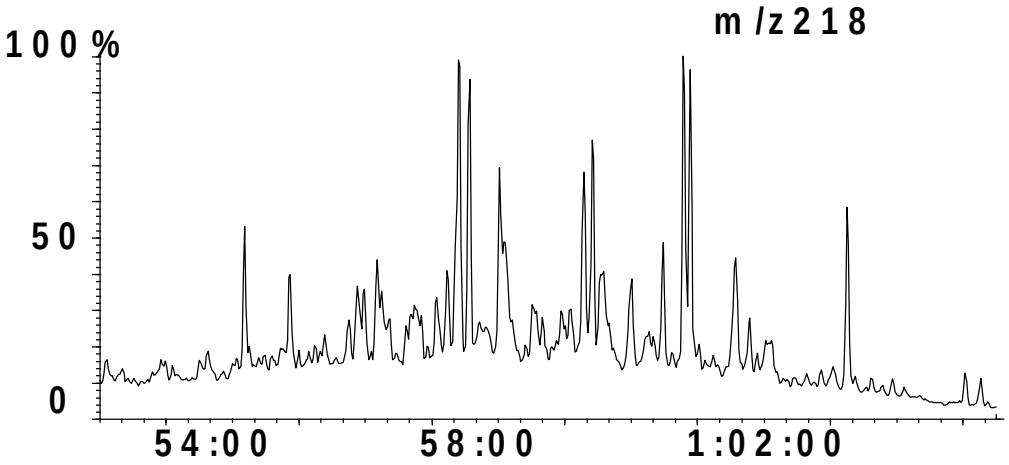
Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

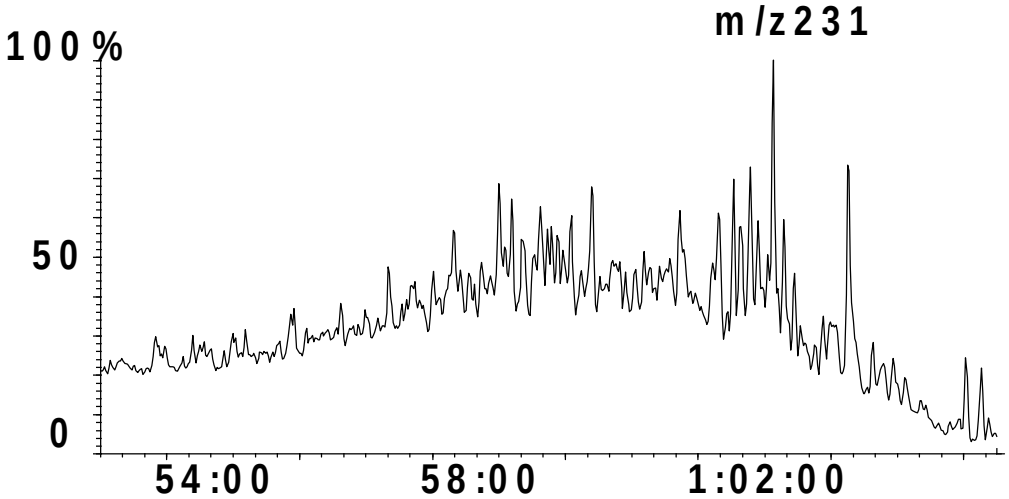
Country: **Australia**	Depth: **4075-4085m**	04-Jun-98
Basin: **Browse**	Age: **145.3** **(Ma)**	Sample ID: **9190**
Well: **Heywood 1**	Formation:	Lat: **-13.462683**
Test:		Long: **124.066725**



Country: **Australia**	Depth: **4075-4085m**	04-Jun-98
Basin: **Browse**	Age: **145.3** **(Ma)**	Sample ID: **9190**
Well: **Heywood 1**	Formation:	Lat: **-13.462683**
Test:		Long: **124.066725**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**2410-2415m**		04-Jun-98
Basin:	**Browse**	Age:	**105**	**(Ma)**	Sample ID: **9198**
Well:	**Echuca Shoals 1**	Formation:			Lat: **-13.750342**
Test:					Long: **123.723617**

BULK PROPERTIES:

Rock Eval:

Tmax	**433**
S1:	**0.15**
S2:	**2.66**
S3:	**1.28**
TOC	**1.7**
HI:	**156.4**
OI:	**75.29**
PI:	**5.338**
PC:	**0.230**
S2/S3:	**2.08**

C15+ Composition

EOM ppm:	**1933**
HC ppm:	**651**
mgHC/gTOC	**38.3**
% Sat:	**26.9**
% Aro:	**12.8**
% NSO:	**60.3**
% Asph:	**0.0**
Sats/Aro	**2.10**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.58**
C15+ Aromatic:	
kerogen:	**-26.43**
Canonical Variable	

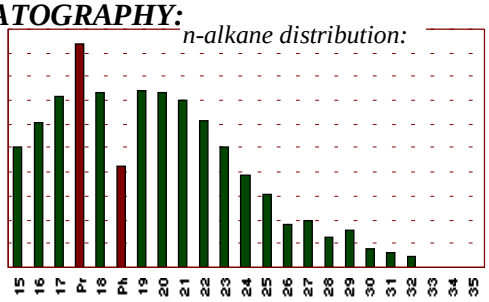
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

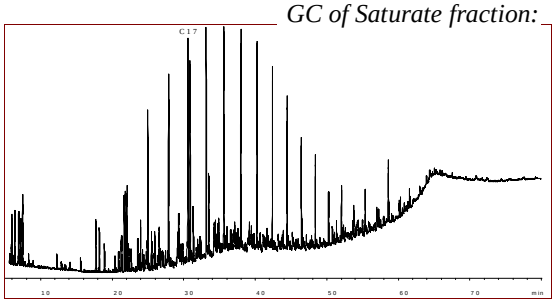
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.19**
Pr/n-C17:	**1.31**
Ph/n-C18:	**0.58**
n-C27/n-C17:	**0.28**
CPI 1:	**1.13**

n-alkane distribution:



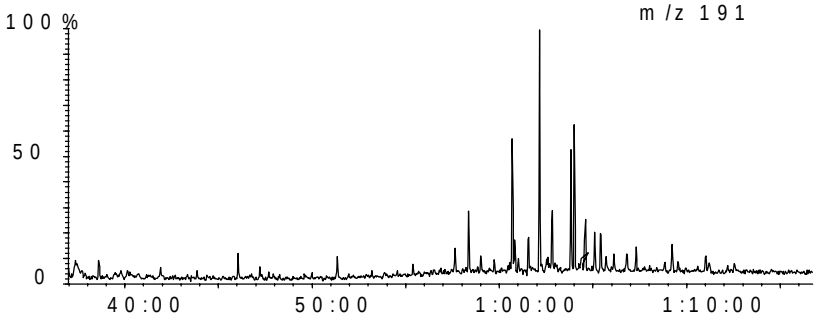
GC of Saturate fraction:



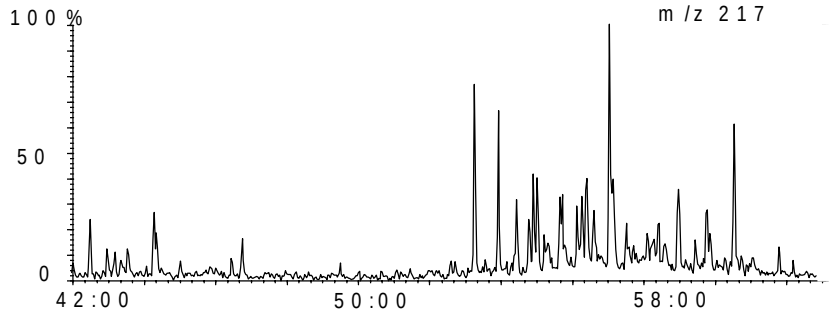
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

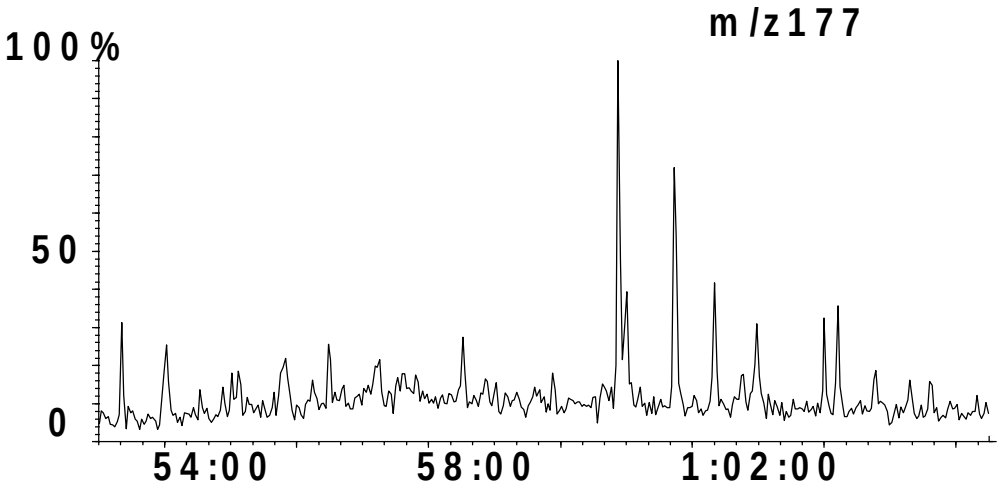


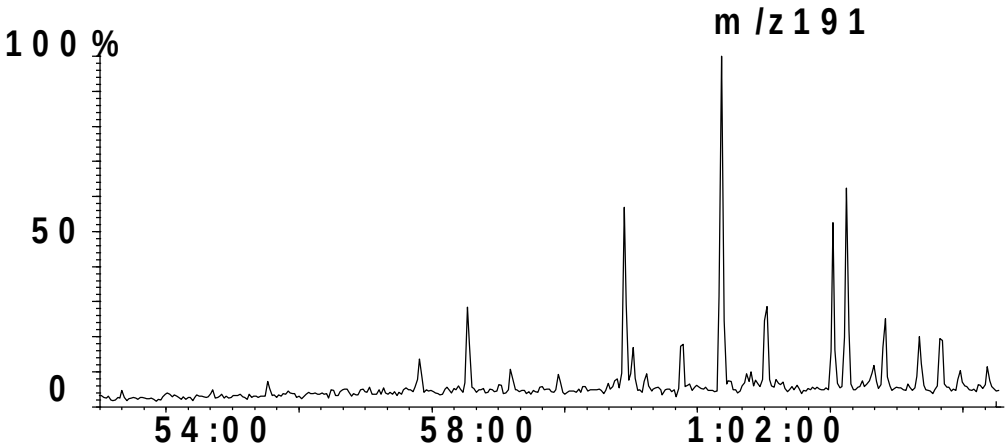
OilMod Ratios

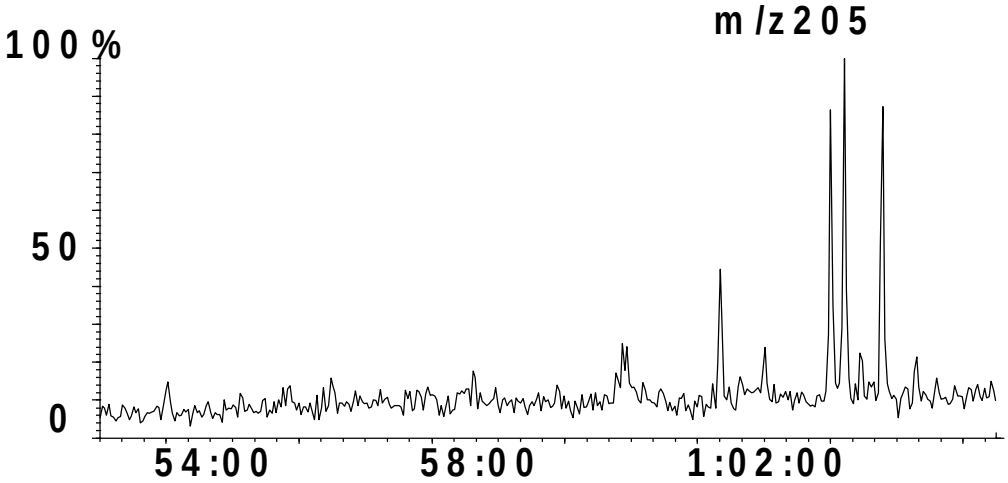
C19/C23=	**0.24**
C22/C21=	**1.00**
C24/C23=	**0.00**
C26/C25=	**0.53**
Tet/C23=	**0.82**
C27T/C27=	**0.01**
C28/H=	**0.00**
C29/H=	**0.55**
C30X/H=	**0.06**
Ol/H=	**0.00**
C31R/H=	**0.60**
GA/C31R=	**0.12**
C35S/C34S=	**1.53**
Ster/Terp=	**0.62**
Rearr/Reg=	**0.80**
%C27=	**51.66**
%C28=	**16.55**
%C29=	**31.79**
C29 20S/R=	**0.19**
Ts/Tm=	**0.41**
C29D/H=	**0.24**
DM/H=	**0.00**

Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

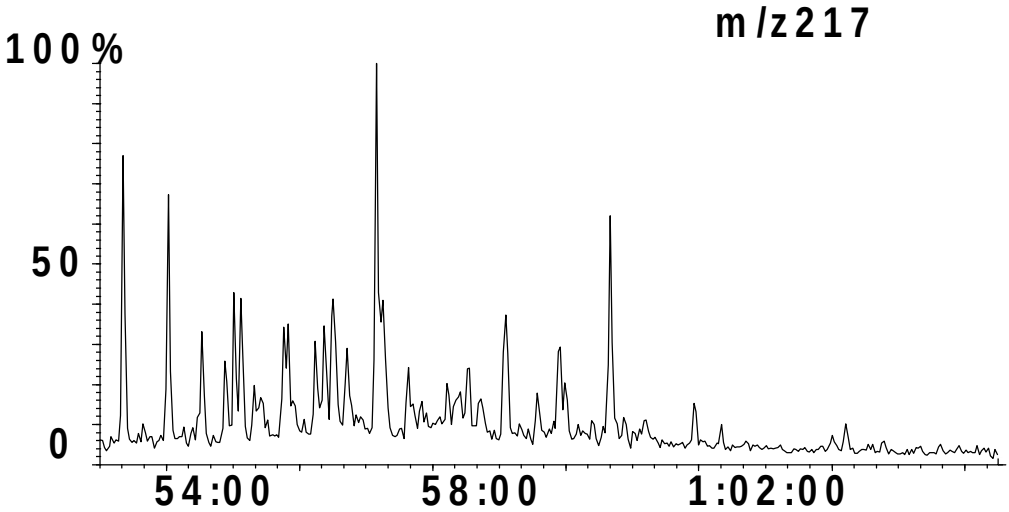
Country: **Australia**	Depth: **2410-2415m**	04-Jun-98
Basin: **Browse**	Age: **105** **(Ma)**	Sample ID: **9198**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**

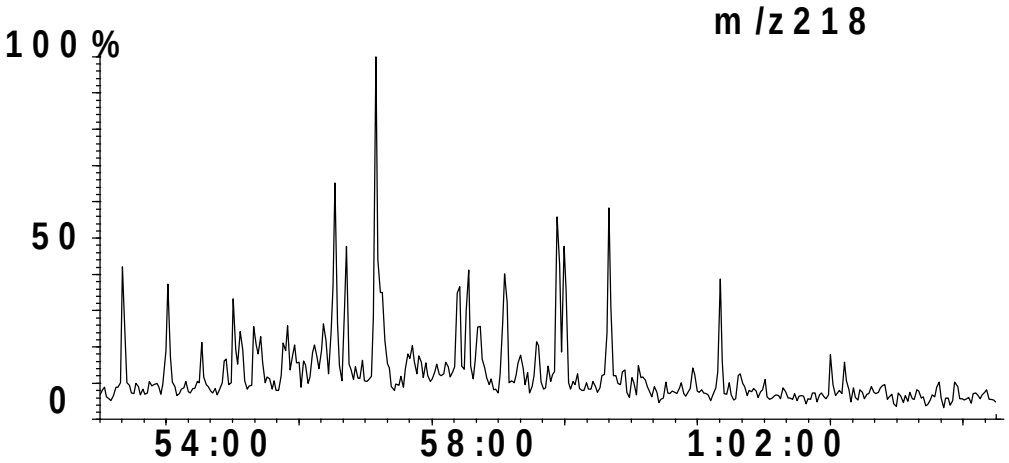


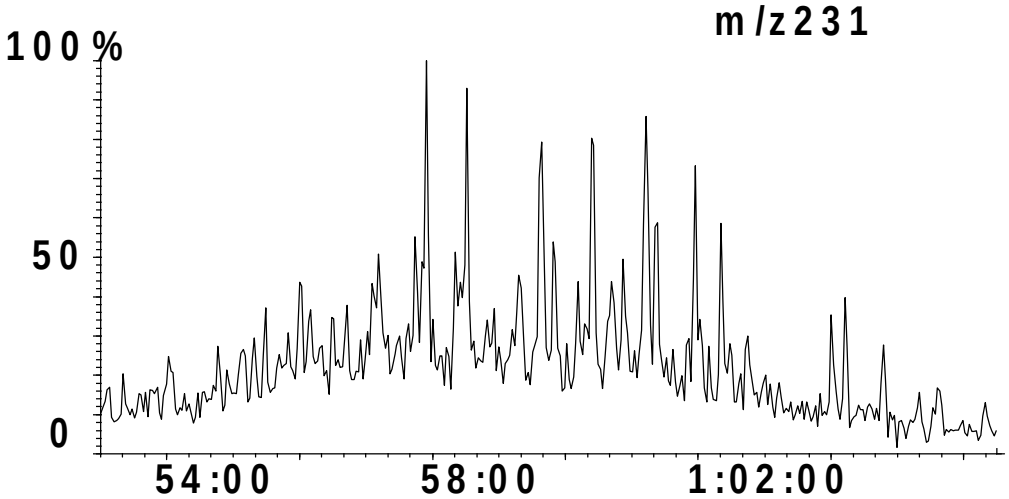




Country: **Australia**	Depth: **2410-2415m**	04-Jun-98
Basin: **Browse**	Age: **105** **(Ma)**	Sample ID: **9198**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3125-3130m**		04-Jun-98
Basin:	**Browse**	Age:	**130**	**(Ma)**	Sample ID: **9203**
Well:	**Echuca Shoals 1**	Formation:			Lat: **-13.750342**
Test:					Long: **123.723617**

BULK PROPERTIES:

Rock Eval:

Tmax	**416**
S1:	**0.71**
S2:	**0.98**
S3:	**6.54**
TOC	**1.43**
HI:	**68.53**
OI:	**457.3**
PI:	**0.420**
PC:	**0.138**
S2/S3:	**0.15**

C15+ Composition

EOM ppm:	**7079**
HC ppm:	**1579**
mgHC/gTOC	**110.4**
% Sat:	**20.2**
% Aro:	**16.4**
% NSO:	**63.4**
% Asph:	**0.0**
Sats/Aro	**1.23**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.95**
C15+ Aromatic:	**-26.95**
kerogen:	
Canonical Variable	**-3.30**

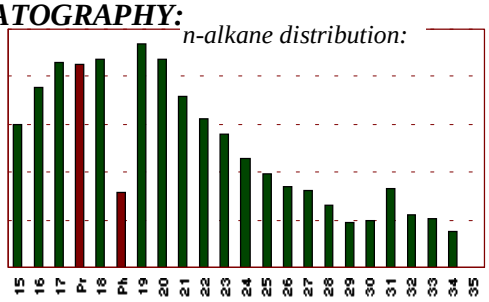
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

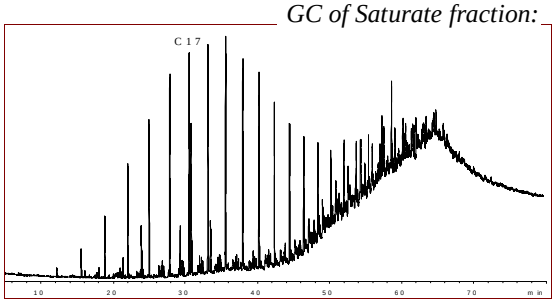
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.68**
Pr/n-C17:	**1.00**
Ph/n-C18:	**0.36**
n-C27/n-C17:	**0.37**
CPI 1:	**1.00**

n-alkane distribution:



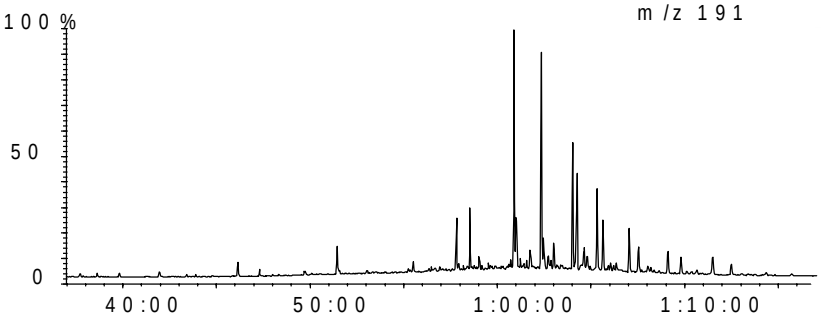
GC of Saturate fraction:



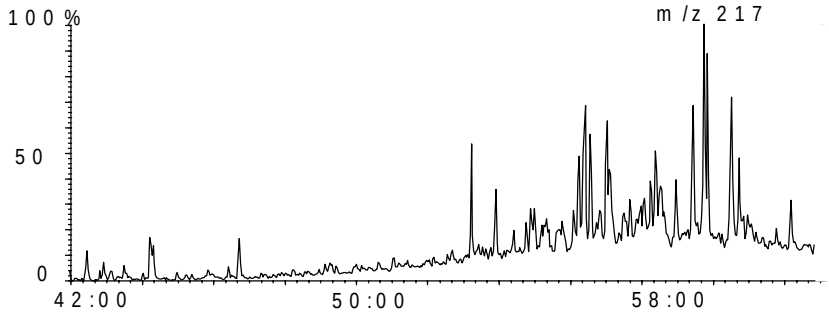
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.22**
C22/C21=	**0.46**
C24/C23=	**0.49**
C26/C25=	**0.87**
Tet/C23=	**1.79**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**1.11**
C30X/H=	**0.04**
Ol/H=	**0.00**
C31R/H=	**0.44**
GA/C31R=	**0.22**
C35S/C34S=	**0.80**
Ster/Terp=	**0.21**
Rearr/Reg=	**1.05**
%C27=	**36.56**
%C28=	**16.81**
%C29=	**46.63**
C29 20S/R=	**0.91**
Ts/Tm=	**0.85**
C29D/H=	**0.21**
DM/H=	**0.00**

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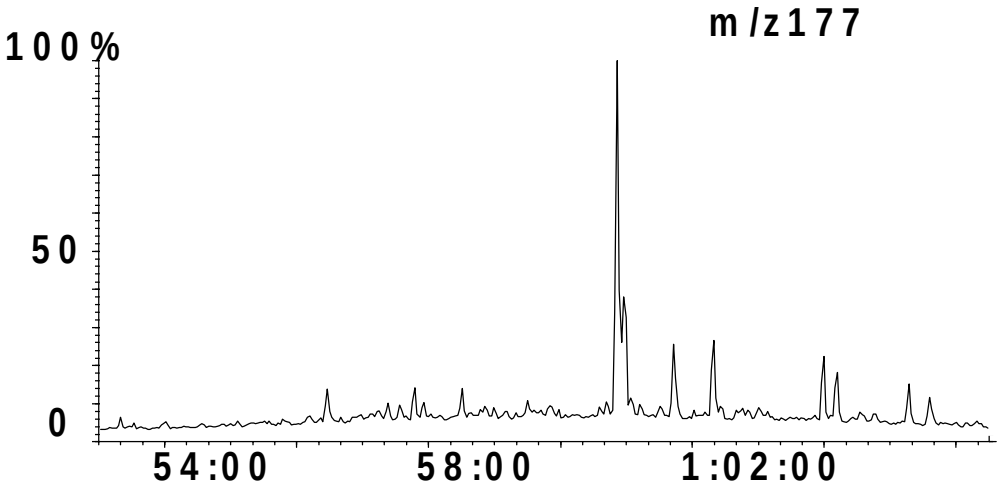
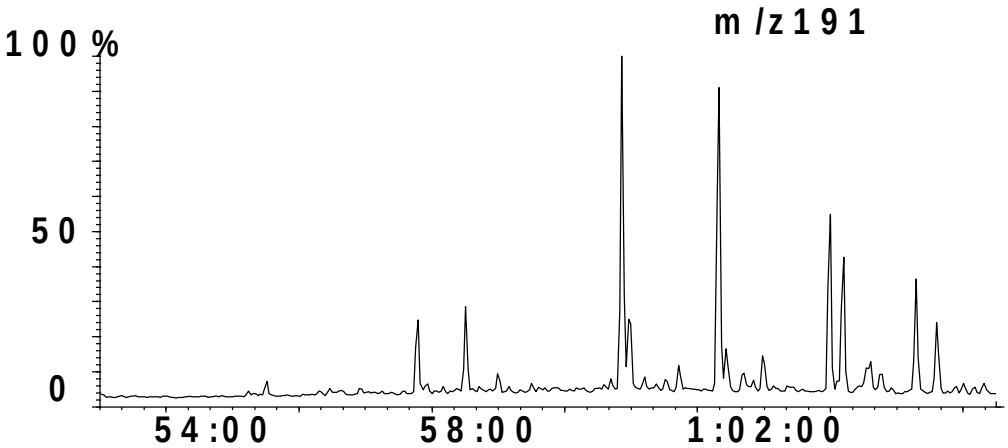
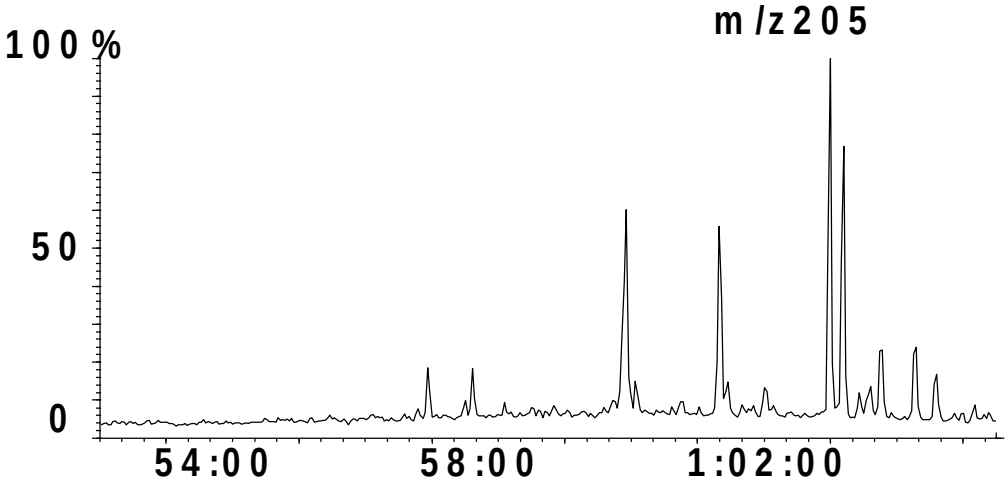
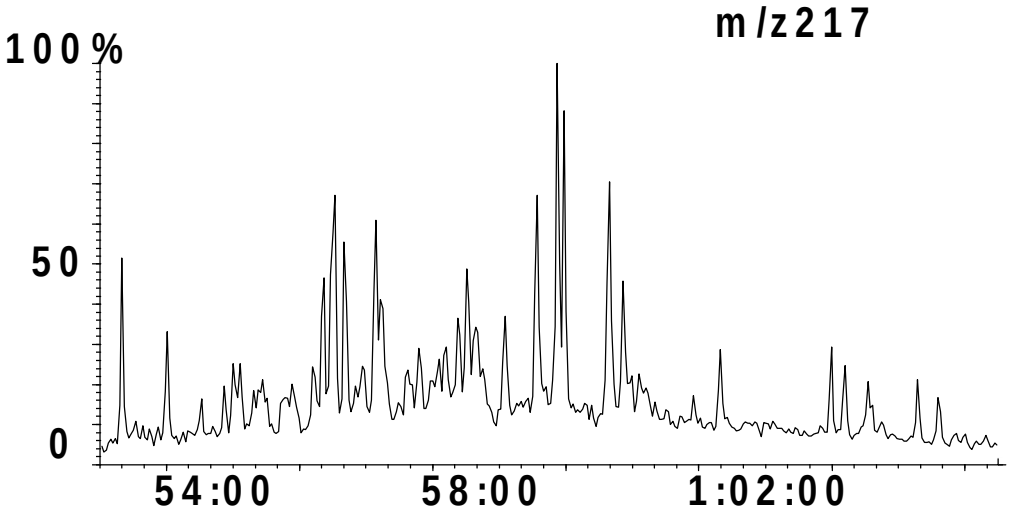
Country: **Australia**	Depth: **3125-3130m**	04-Jun-98
Basin: **Browse**	Age: **130** **(Ma)**	Sample ID: **9203**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**

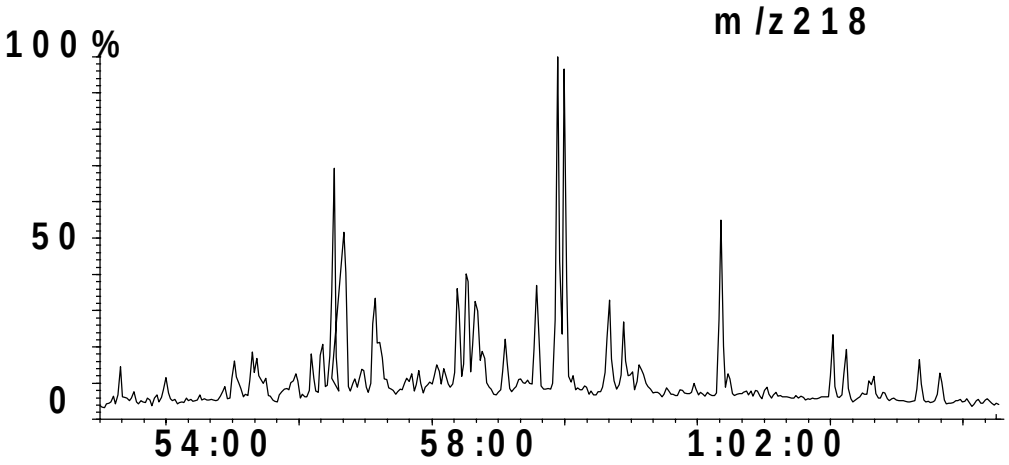


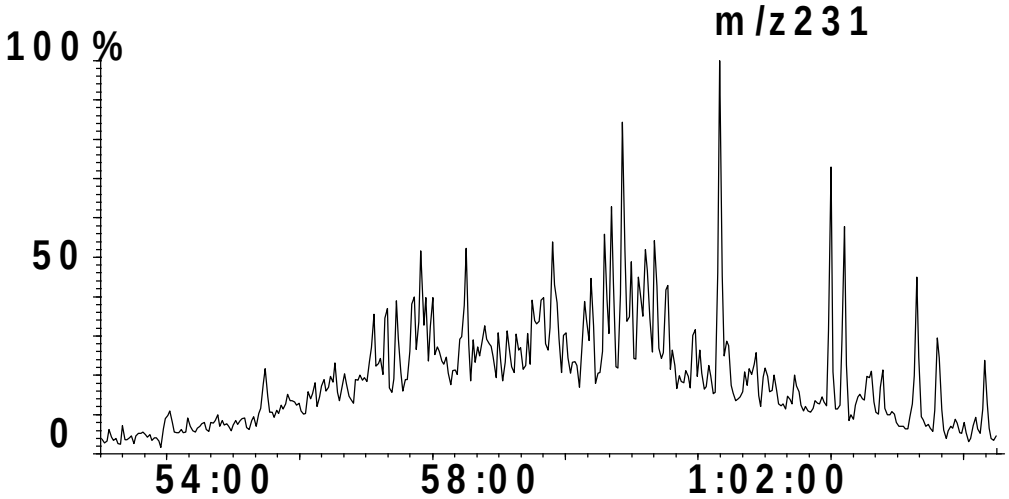




Country: **Australia**	Depth: **3125-3130m**	04-Jun-98
Basin: **Browse**	Age: **130** **(Ma)**	Sample ID: **9203**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**2555-2560m**		04-Jun-98
Basin:	**Browse**	Age:	**129**	**(Ma)**	Sample ID: **9214**
Well:	**Prudhoe 1**	Formation:			Lat: **-13.748766**
Test:					Long: **123.864176**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**0.58**
S2:	**4.13**
S3:	**0.58**
TOC	**2.36**
HI:	**175**
OI:	**24.57**
PI:	**0.123**
PC:	**0.386**
S2/S3:	**7.12**

C15+ Composition

EOM ppm:	**2794**
HC ppm:	**733**
mgHC/gTOC	**31.1**
% Sat:	**19.4**
% Aro:	**15.0**
% NSO:	**65.6**
% Asph:	**0.0**
Sats/Aro	**1.30**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

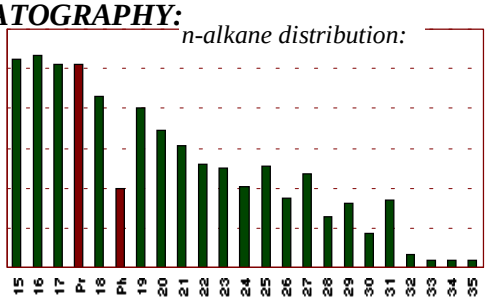
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

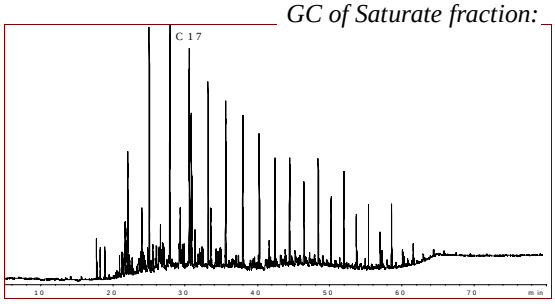
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.56**
Pr/n-C17:	**1.00**
Ph/n-C18:	**0.46**
n-C27/n-C17:	**0.46**
CPI 1:	**1.33**

n-alkane distribution:



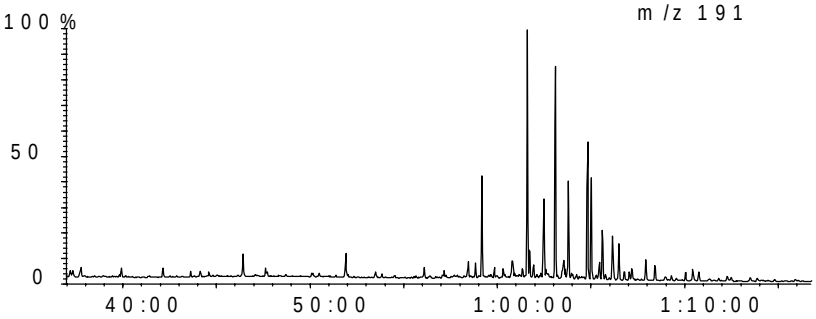
GC of Saturate fraction:



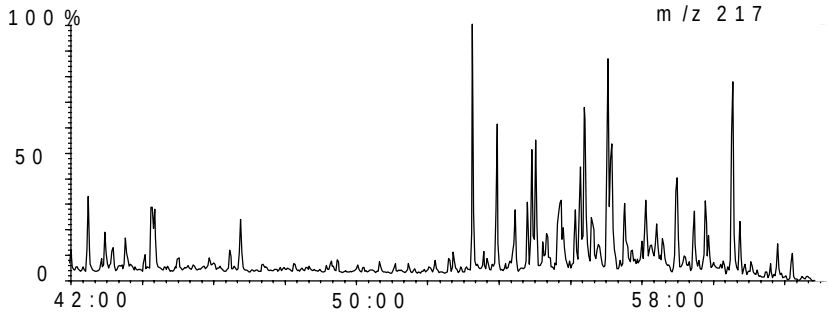
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.43**
C22/C21=	**0.61**
C24/C23=	**0.36**
C26/C25=	**0.70**
Tet/C23=	**0.94**
C27T/C27=	**0.00**
C28/H=	**0.07**
C29/H=	**1.17**
C30X/H=	**0.06**
Ol/H=	**0.00**
C31R/H=	**0.48**
GA/C31R=	**0.16**
C35S/C34S=	**0.39**
Ster/Terp=	**0.32**
Rearr/Reg=	**1.24**
%C27=	**42.48**
%C28=	**17.83**
%C29=	**39.70**
C29 20S/R=	**0.28**
Ts/Tm=	**0.16**
C29D/H=	**0.11**
DM/H=	**0.00**

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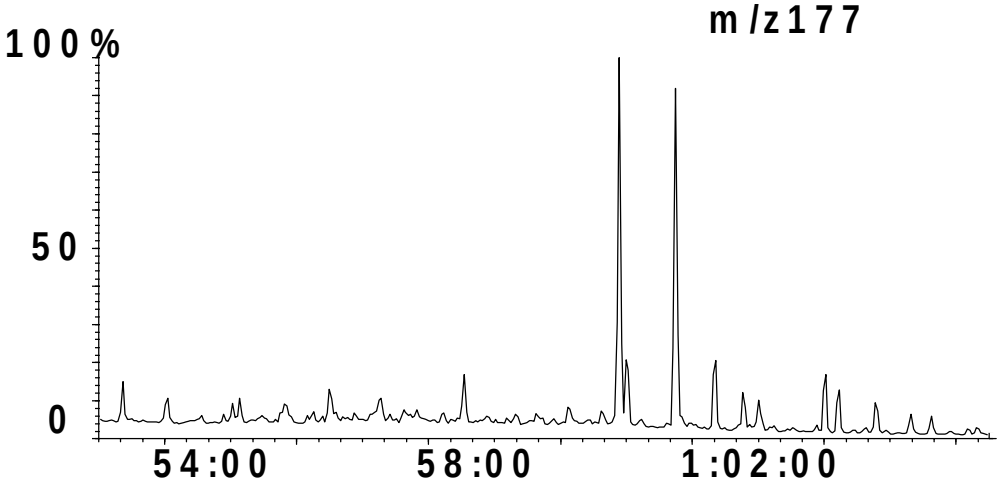
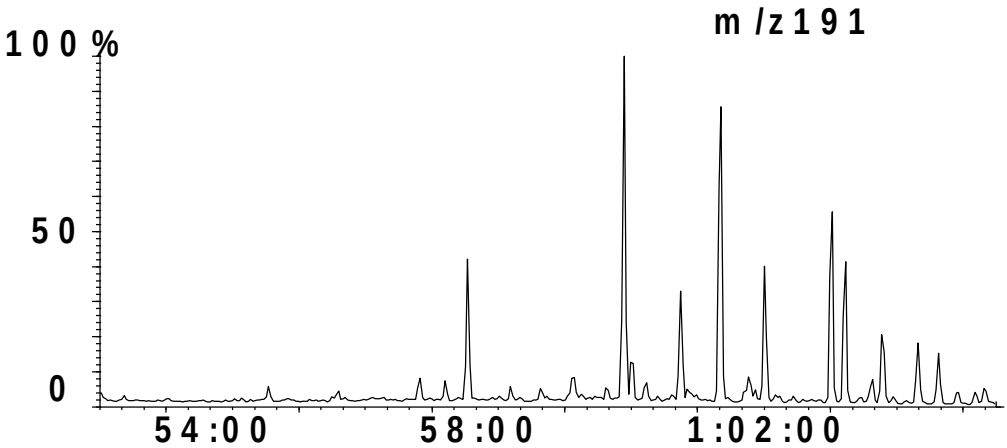
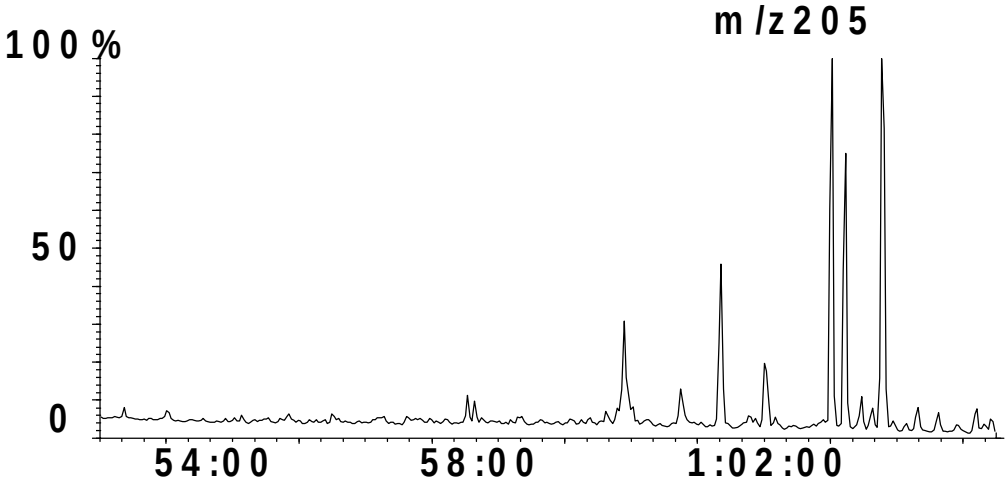
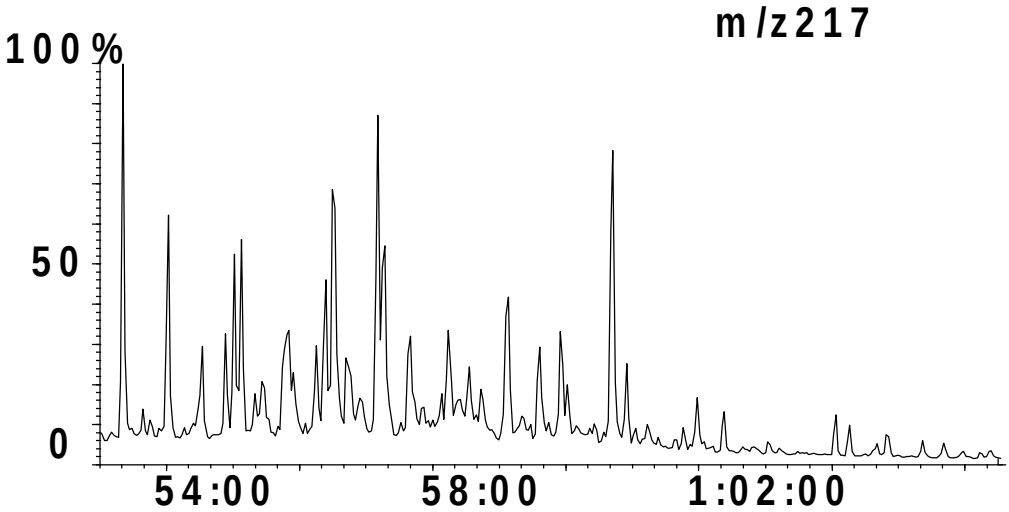
Country: **Australia**	Depth: **2555-2560m**	04-Jun-98
Basin: **Browse**	Age: **129** **(Ma)**	Sample ID: **9214**
Well: **Prudhoe 1**	Formation:	Lat: **-13.748766**
Test:		Long: **123.864176**

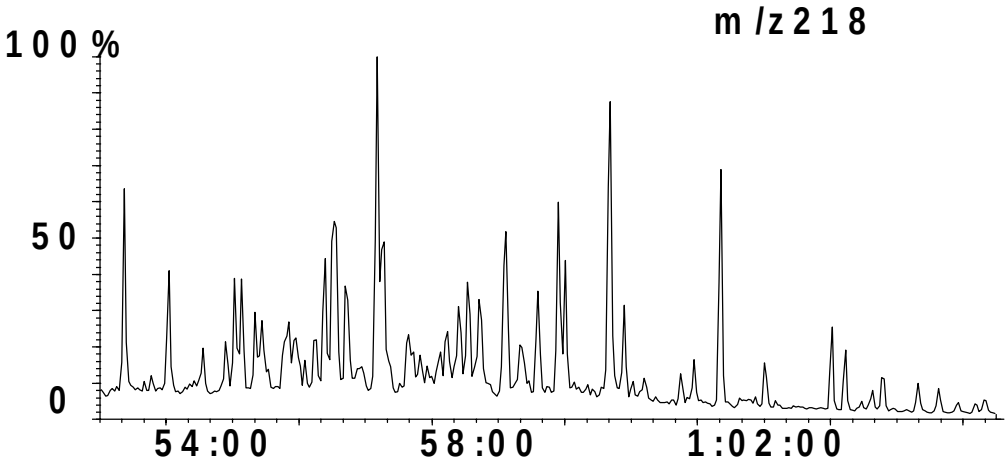


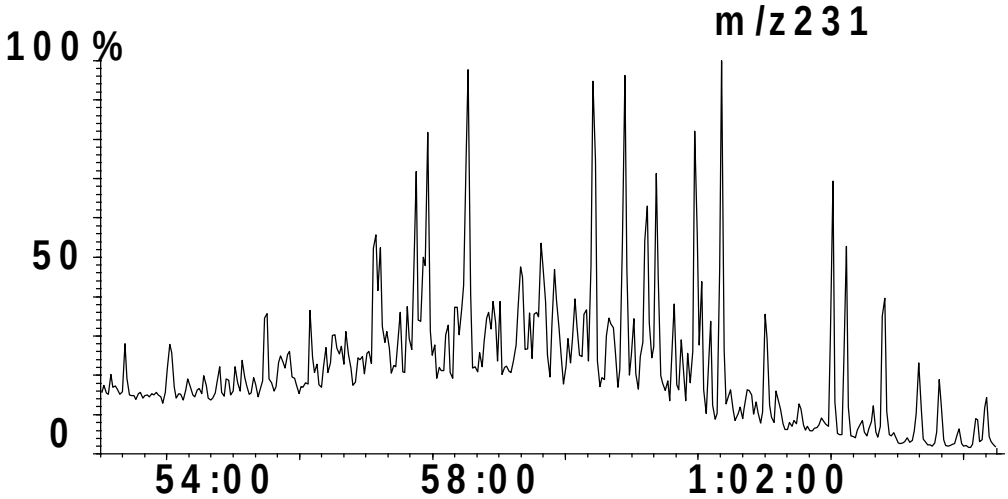




Country: **Australia**	Depth: **2555-2560m**	04-Jun-98
Basin: **Browse**	Age: **129** **(Ma)**	Sample ID: **9214**
Well: **Prudhoe 1**	Formation:	Lat: **-13.748766**
Test:		Long: **123.864176**







Oils of OZ

NW Shelf Oil Study

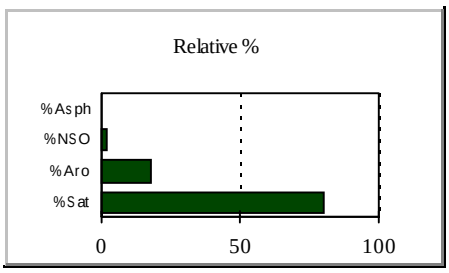
Australian Geological Survey Organisation

GEOCHEMICAL SUMMARY SHEET

Country: **Australia** Depth: **4223-4283m** 04-Jun-98
Basin: **Browse** Age: **199.8 Ma** Sample ID: **922**
Well: **North Scott Reef** Formation: LAT: -13.9485
Test: **PT** LONG: 121.9754

BULK PROPERTIES:

C15 + Composition
% Sat: **80.2**
% Aro: **17.9**
% NSO: **1.9**
% Asph: **0.0**
Sat/Aro= **4.48**
n-Paraffin/Naphthene= **0.55**

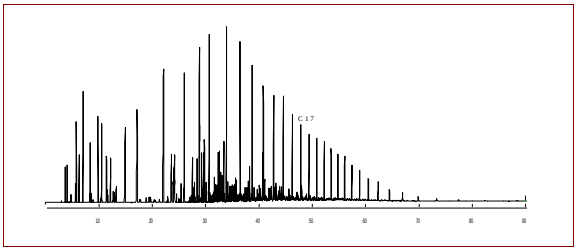


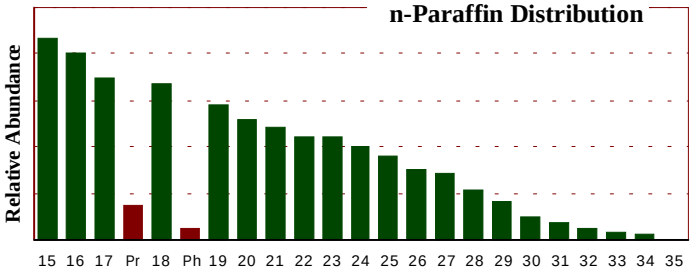
Stable Carbon Isotope Composition
δ per mil PDB
C15+ Saturate: **-26.97**
C15+ Aromatic: **-24.42**
Canonical Variable: **2.37**

Comments: condensate PT

API Gravity: **47.5** %< C15: **44.7** ppm V: **0.25** pm Ni: **2.5**

GAS CHROMATOGRAPHY:



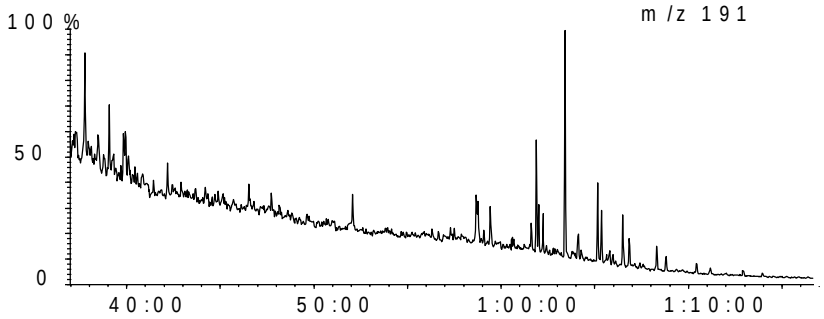


Pr/Ph: **2.99** Pr/n-C17: **0.22** Ph/n-C18: **0.07** n-C27/n-C17: **0.41** CPI: **1.09**

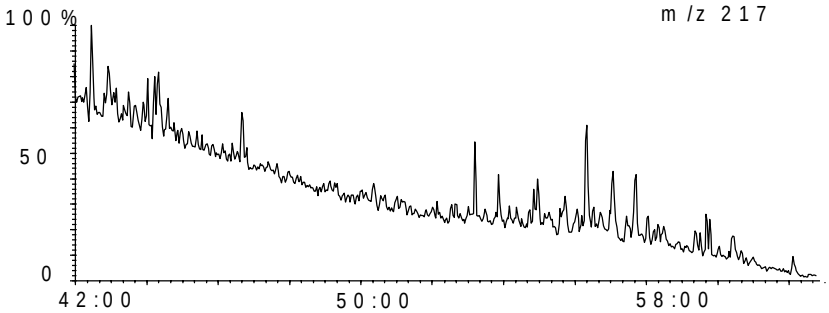
BIOMARKERS:

Comments: % sterane based on 20R homologues ppm C30 Hopane: **10**

Terpanes



Steranes

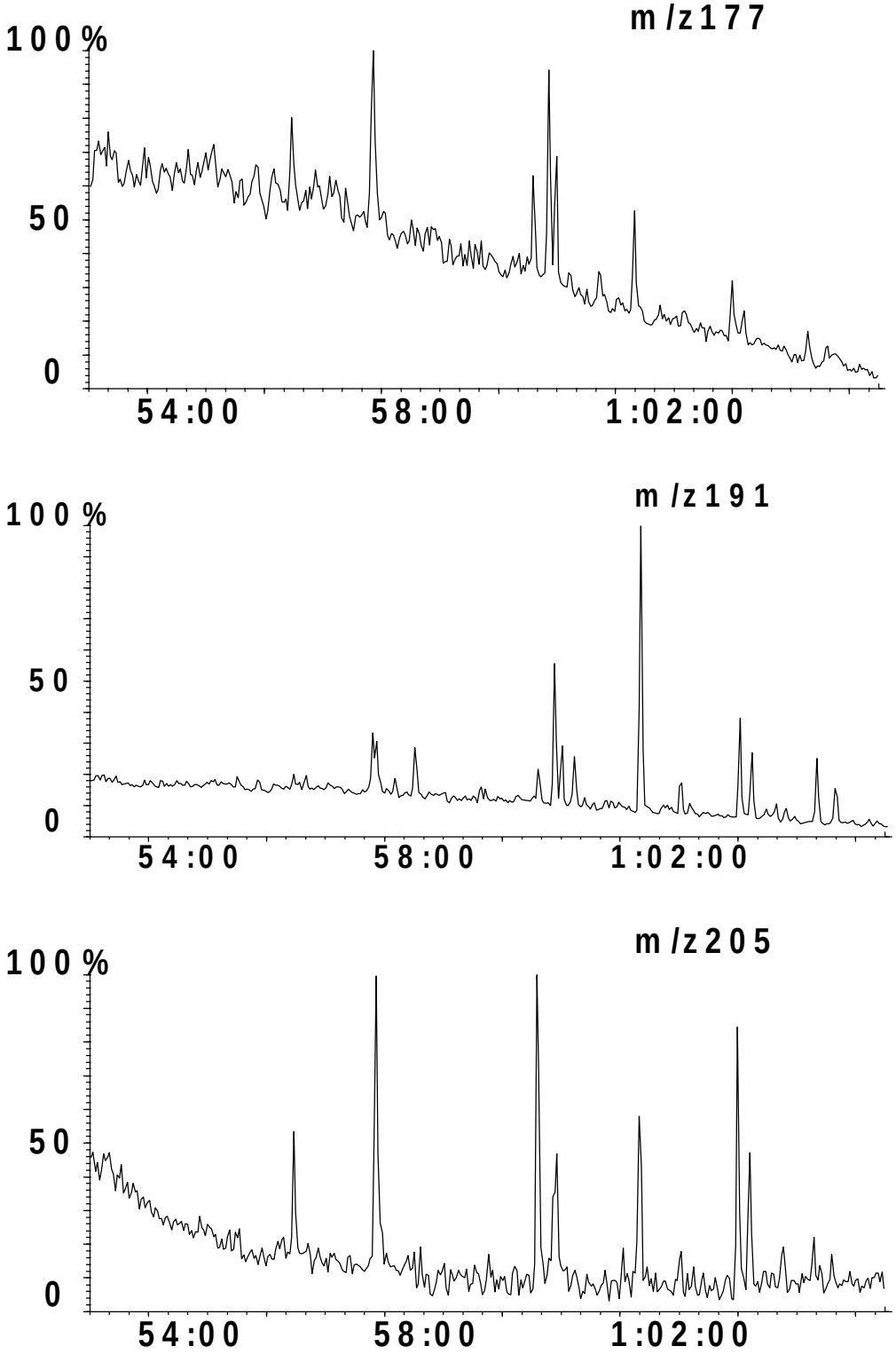


OilMod Ratios

C19/C23= **4.06**
C22/C21= **0.49**
C24/C23= **0.83**
C26/C25= **1.12**
Tet/C23= **1.20**
C27T/C27= **0.02**
C28/H= **0.02**
C29/H= **0.49**
C30X/H= **0.17**
OL/H= **0.00**
C31R/H= **0.23**
GA/C31R= **0.24**
C35S/C34S= **0.55**
Ster/Terp= **0.38**
Rearr/Reg = **3.85**
%C27= **46.3**
%C28= **3.8**
%C29= **49.8**
C29 20S/R= **0.79**
Ts/Tm= **1.26**
C29D/H= **0.42**
DM/H= **0.00**

AGSO GPO Box 375 Canberra ACT 2601 Australia Tel: (026) 2499515 Fax: (026) 2499983

Country:	**Australia**	Depth:	**4223-4283m**		04-Jun-98
Basin:	**Browse**	Age:	**199.8 Ma**		Sample ID: **922**
Well:	**North Scott Reef**	Formation:			LAT: -13.9485
Test:	**PT**				LONG: 121.9754



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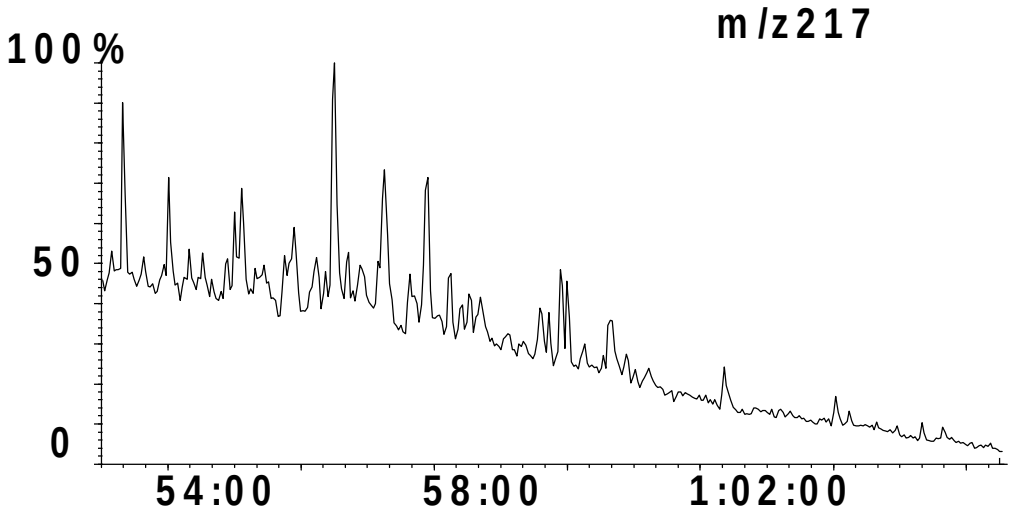
m/z217
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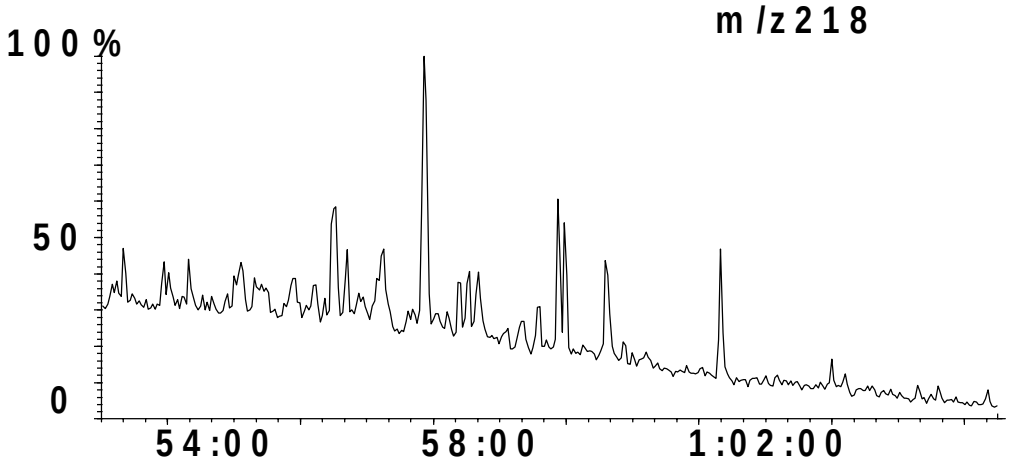
0
54:00
58:00
1:02:00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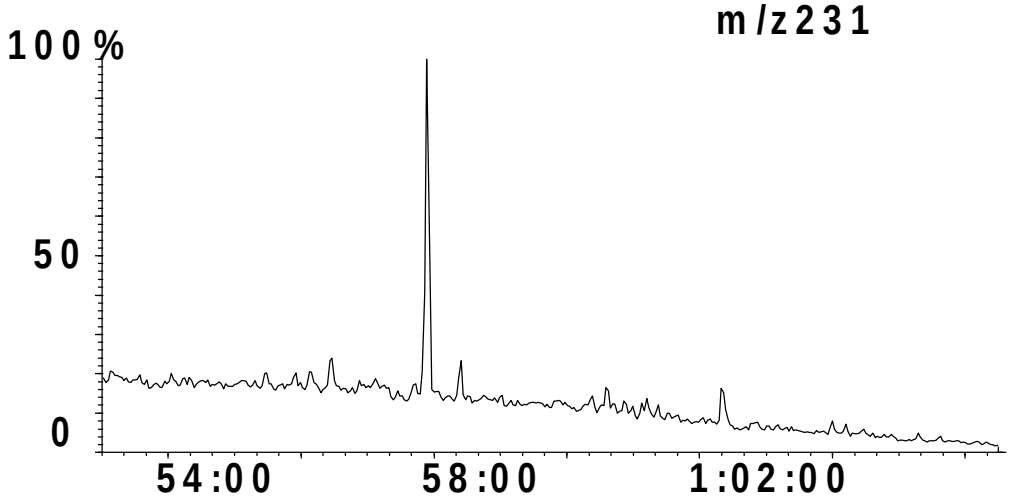

m/z231
100%
50
0
54:00
58:00
1:02:00

NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**4330-4335m**		04-Jun-98
Basin:	**Browse**	Age:	**191.2**	**(Ma)**	Sample ID: **9243**
Well:	**Barcoo 1**	Formation:			Lat: **-15.343611**
Test:					Long: **120.636722**

BULK PROPERTIES:

Rock Eval:

Tmax	**431**
S1:	**0.18**
S2:	**0.69**
S3:	**10.24**
TOC	**1.05**
HI:	**65.71**
OI:	**975**
PI:	**0.206**
PC:	**0.071**
S2/S3:	**0.06**

C15+ Composition

EOM ppm:	**1681**
HC ppm:	**821**
mgHC/gTOC	**78.2**
% Sat:	**41.8**
% Aro:	**8.8**
% NSO:	**49.4**
% Asph:	**0.0**
Sats/Aro	**4.73**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-28.25**
C15+ Aromatic:	**-26.24**
kerogen:	
Canonical Variable	**1.57**

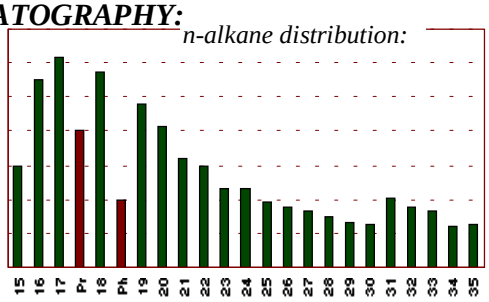
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

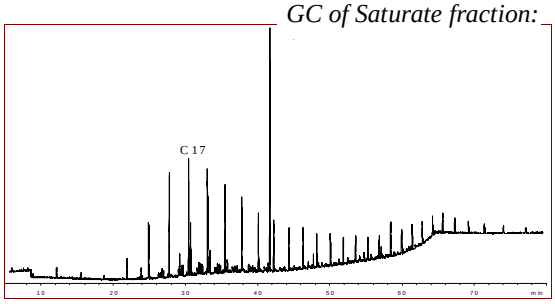
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.02**
Pr/n-C17:	**0.65**
Ph/n-C18:	**0.35**
n-C27/n-C17:	**0.27**
CPI 1:	**0.93**

n-alkane distribution:



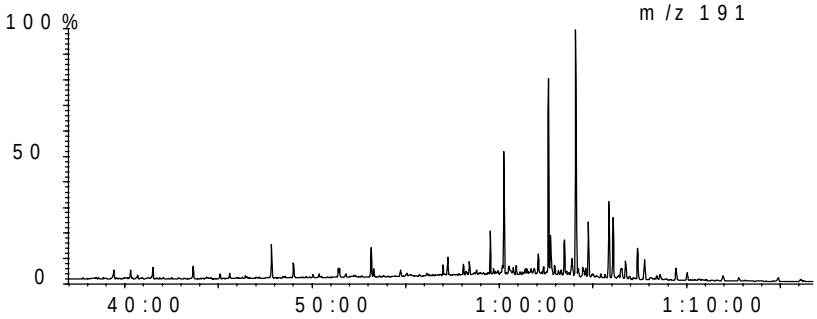
GC of Saturate fraction:



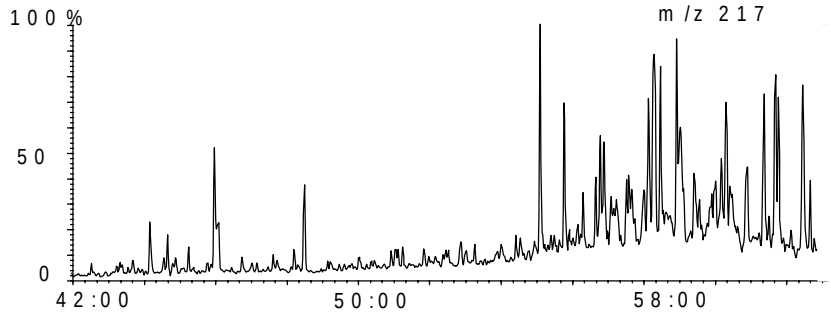
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

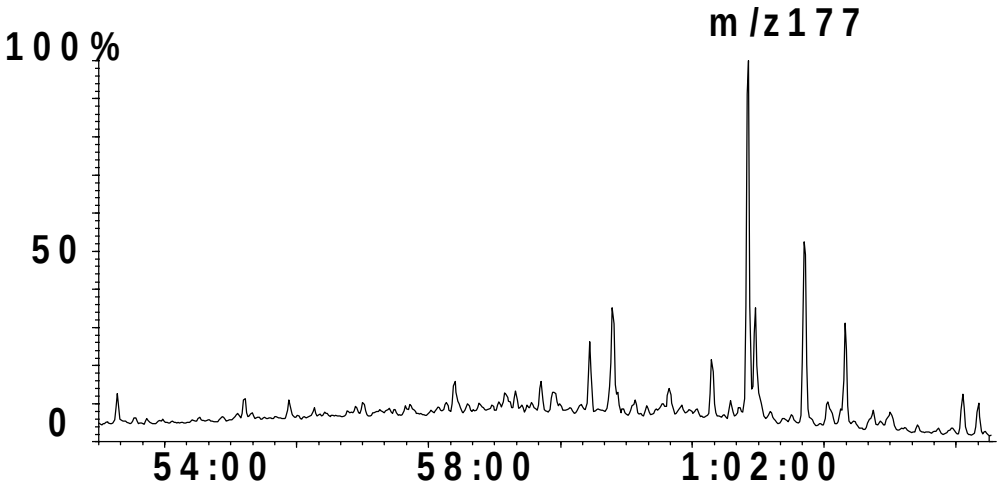


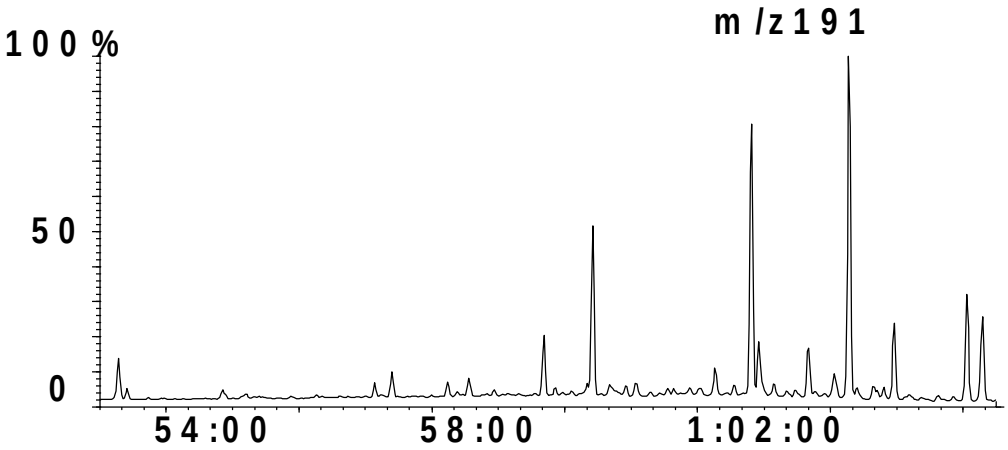
OilMod Ratios

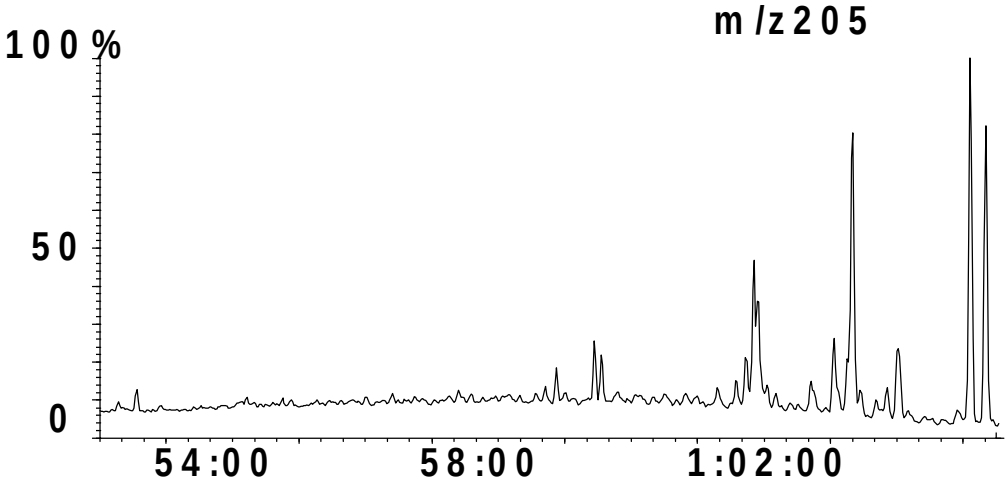
C19/C23=	**0.25**
C22/C21=	**0.43**
C24/C23=	**0.45**
C26/C25=	**0.84**
Tet/C23=	**0.88**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.80**
C30X/H=	**0.03**
Ol/H=	**0.07**
C31R/H=	**0.24**
GA/C31R=	**0.16**
C35S/C34S=	**0.60**
Ster/Terp=	**0.12**
Rearr/Reg=	**1.22**
%C27=	**44.35**
%C28=	**16.51**
%C29=	**39.14**
C29 20S/R=	**0.89**
Ts/Tm=	**0.35**
C29D/H=	**0.20**
DM/H=	**0.00**

Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

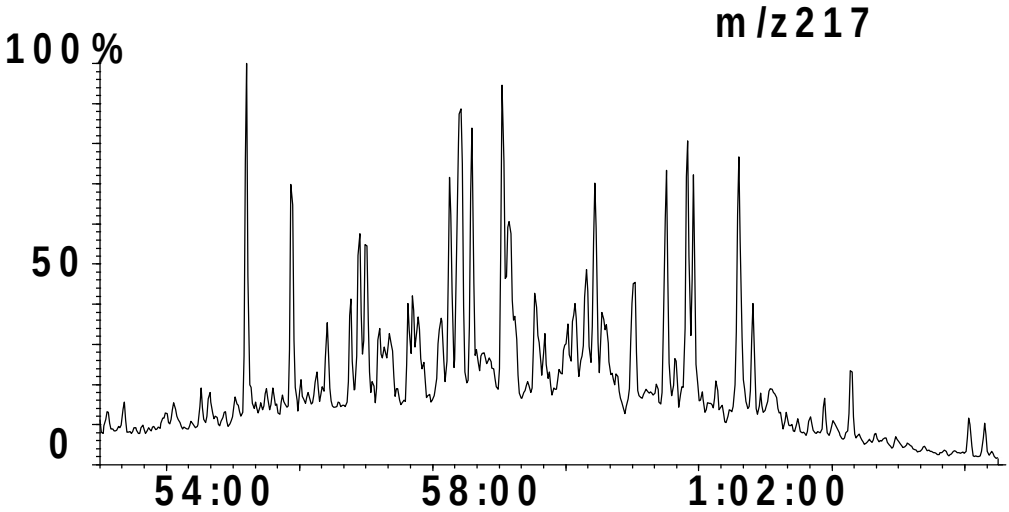
Country: **Australia**	Depth: **4330-4335m**	04-Jun-98
Basin: **Browse**	Age: **191.2** **(Ma)**	Sample ID: **9243**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**

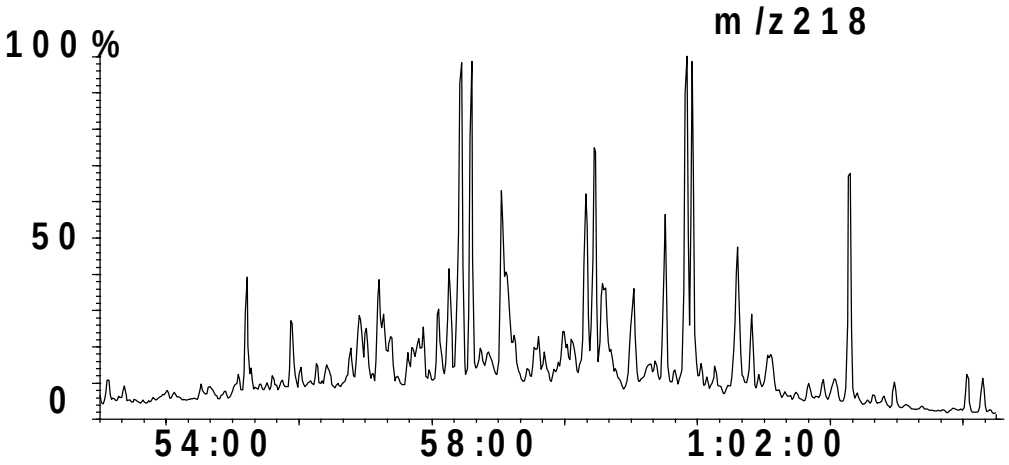


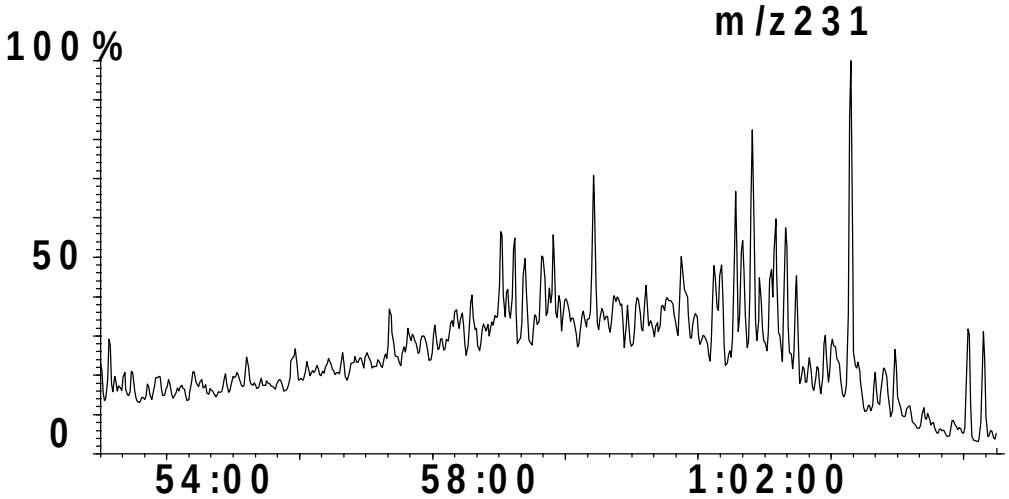




Country: **Australia**	Depth: **4330-4335m**	04-Jun-98
Basin: **Browse**	Age: **191.2** **(Ma)**	Sample ID: **9243**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Barcoo 1**
Test:

Depth: **4485-4490m**
Age: **196.1** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9244**
Lat: **-15.343611**
Long: **120.636722**

BULK PROPERTIES:

Rock Eval:

Tmax	**430**
S1:	**0.55**
S2:	**1.53**
S3:	**7.21**
TOC	**1.74**
HI:	**87.93**
OI:	**414.3**
PI:	**0.264**
PC:	**0.170**
S2/S3:	**0.21**

C15+ Composition

EOM ppm:	**4088**
HC ppm:	**1785**
mgHC/gTOC	**102.6**
% Sat:	**44.0**
% Aro:	**13.3**
% NSO:	**42.7**
% Asph:	**0.0**
Sats/Aro	**3.30**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

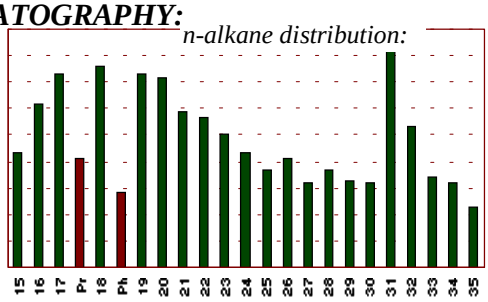
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

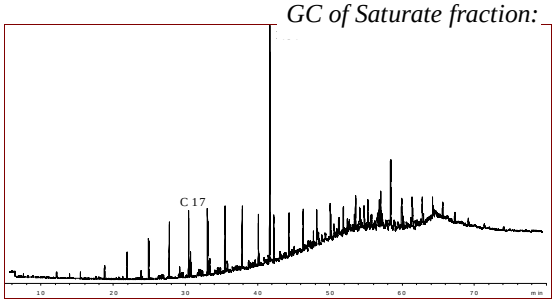
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.45**
Pr/n-C17:	**0.56**
Ph/n-C18:	**0.37**
n-C27/n-C17:	**0.44**
CPI 1:	**0.91**

n-alkane distribution:



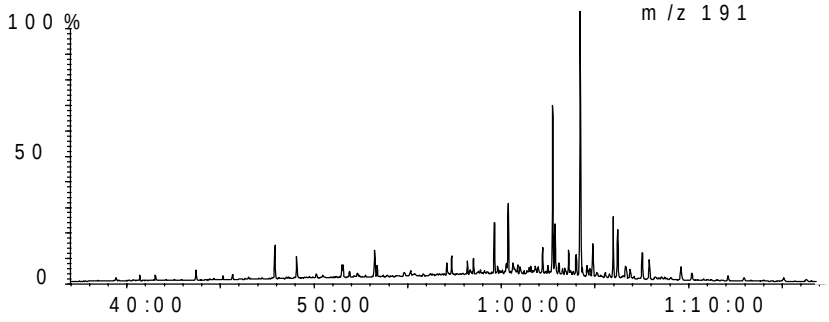
GC of Saturate fraction:



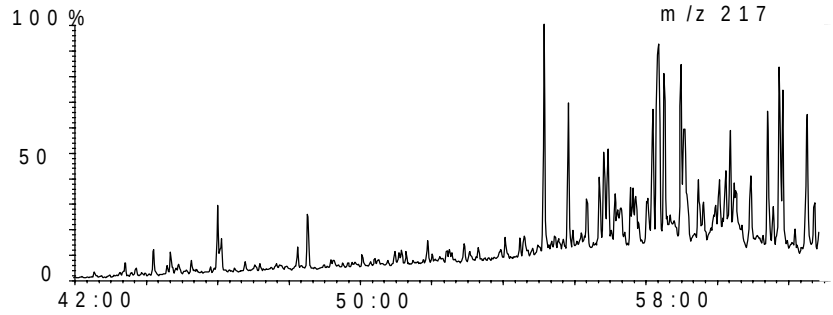
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

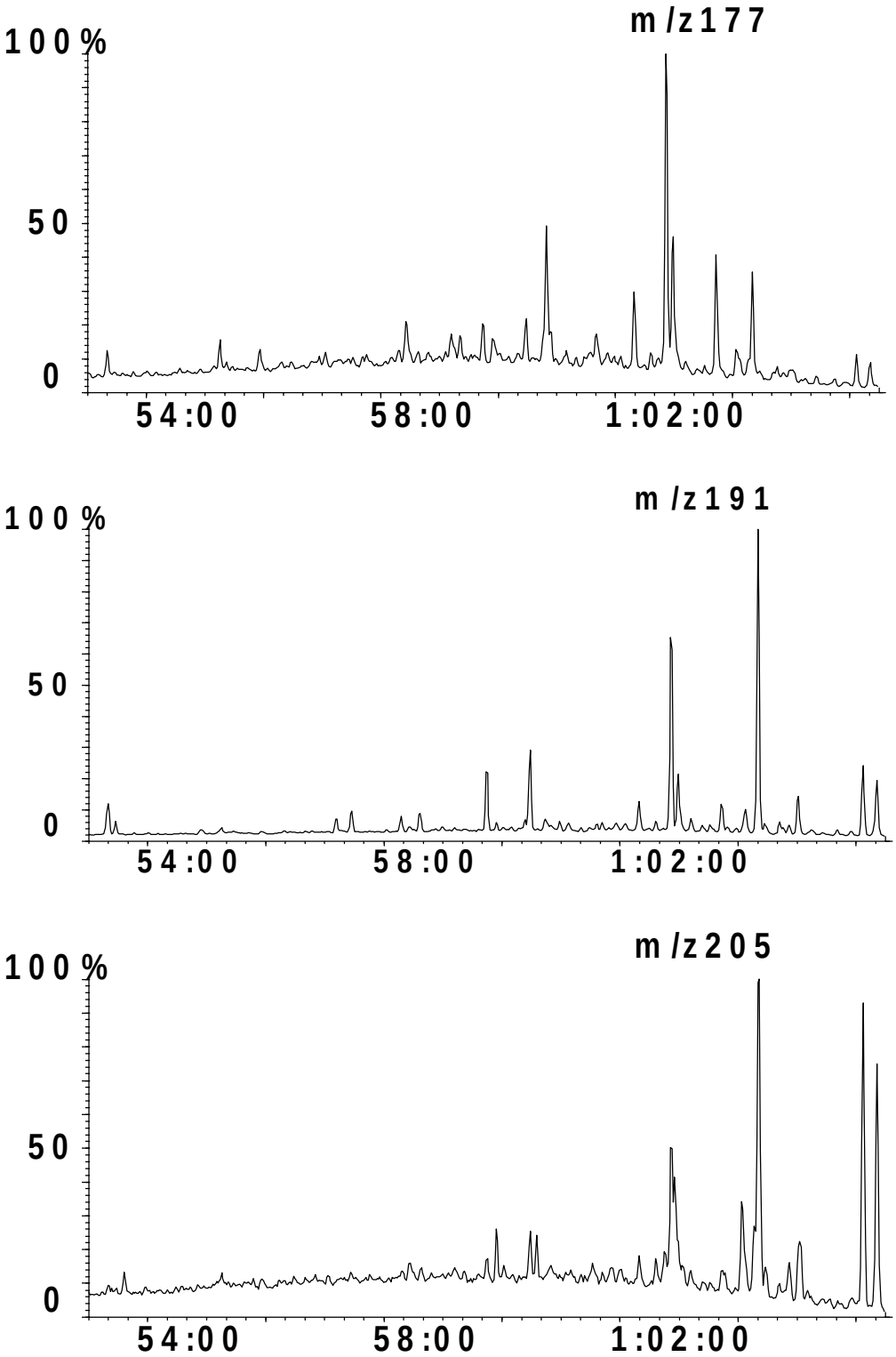


OilMod Ratios

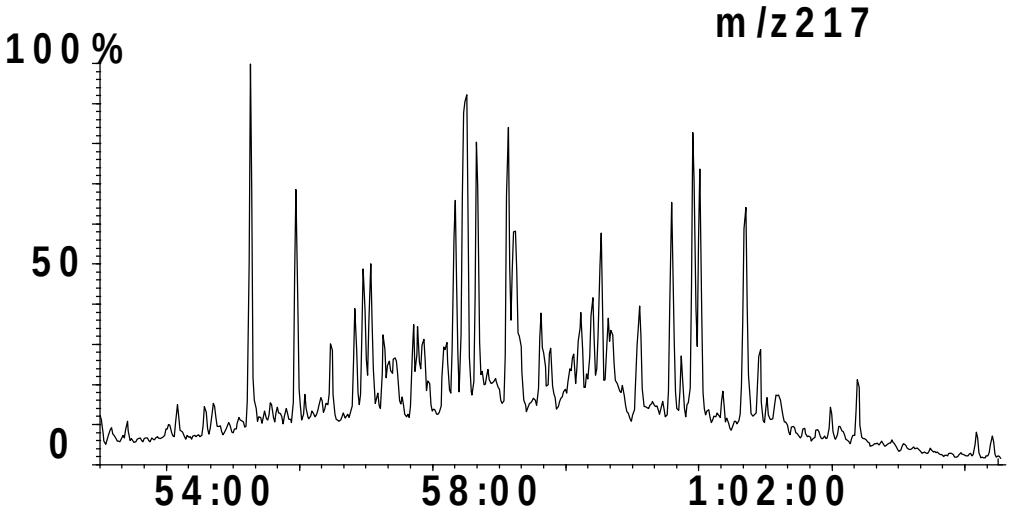
C19/C23=	**0.10**
C22/C21=	**0.52**
C24/C23=	**0.64**
C26/C25=	**0.90**
Tet/C23=	**0.79**
C27T/C27=	**0.01**
C28/H=	**0.00**
C29/H=	**0.64**
C30X/H=	**0.04**
Ol/H=	**0.07**
C31R/H=	**0.18**
GA/C31R=	**0.24**
C35S/C34S=	**0.67**
Ster/Terp=	**0.17**
Rearr/Reg=	**1.34**
%C27=	**46.22**
%C28=	**17.27**
%C29=	**36.50**
C29 20S/R=	**0.98**
Ts/Tm=	**0.73**
C29D/H=	**0.29**
DM/H=	**0.00**

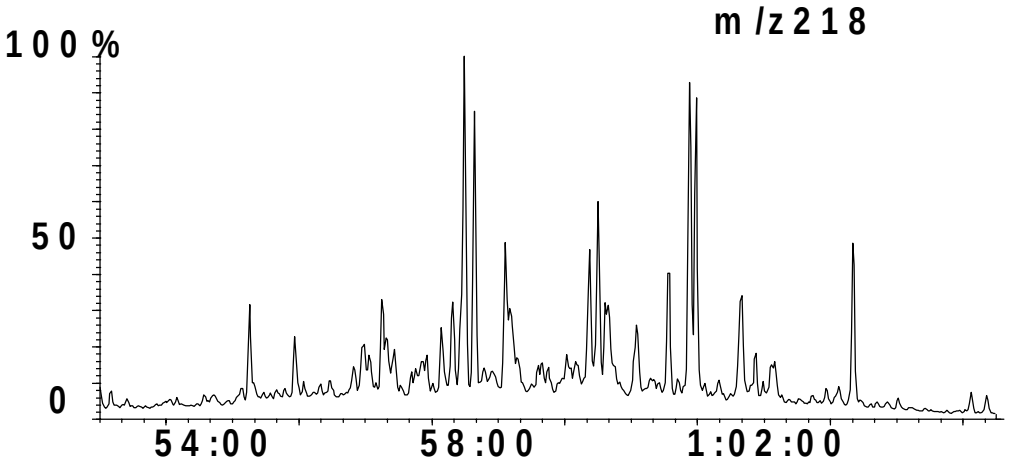
Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

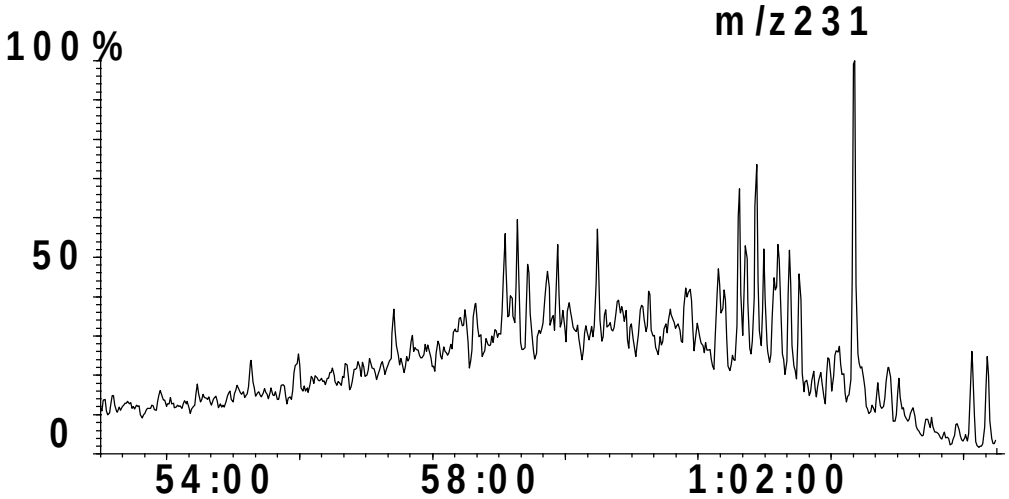
Country: **Australia**	Depth: **4485-4490m**	04-Jun-98
Basin: **Browse**	Age: **196.1** **(Ma)**	Sample ID: **9244**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**



Country: **Australia**	Depth: **4485-4490m**	04-Jun-98
Basin: **Browse**	Age: **196.1** **(Ma)**	Sample ID: **9244**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Lombardina 1**
Test:

Depth: **2060-2065m**
Age: **122** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9273**
Lat: **-15.288942**
Long: **121.537303**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**1.41**
S2:	**4.26**
S3:	**1.66**
TOC	**2.83**
HI:	**150.5**
OI:	**58.65**
PI:	**0.248**
PC:	**0.464**
S2/S3:	**2.57**

C15+ Composition

EOM ppm:	**4662**
HC ppm:	**1915**
mgHC/gTOC	**67.7**
% Sat:	**30.3**
% Aro:	**15.1**
% NSO:	**54.6**
% Asph:	**0.0**
Sats/Aro	**2.00**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-25.89**
C15+ Aromatic:	**-24.53**
kerogen:	**-23.77**
Canonical Variable	**-0.60**

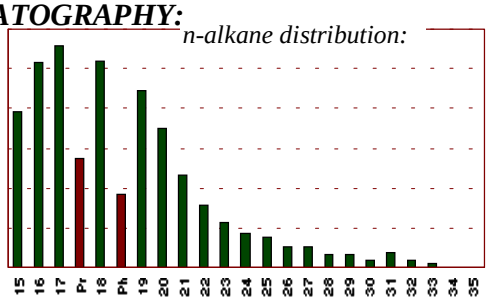
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

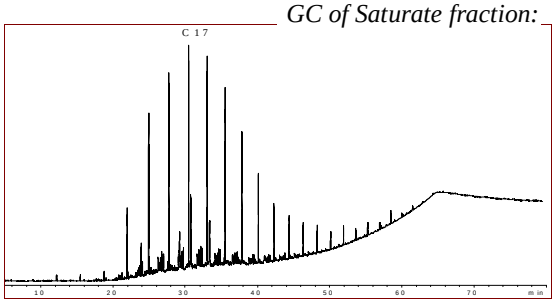
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.50**
Pr/n-C17:	**0.49**
Ph/n-C18:	**0.35**
n-C27/n-C17:	**0.10**
CPI 1:	**1.10**

n-alkane distribution:



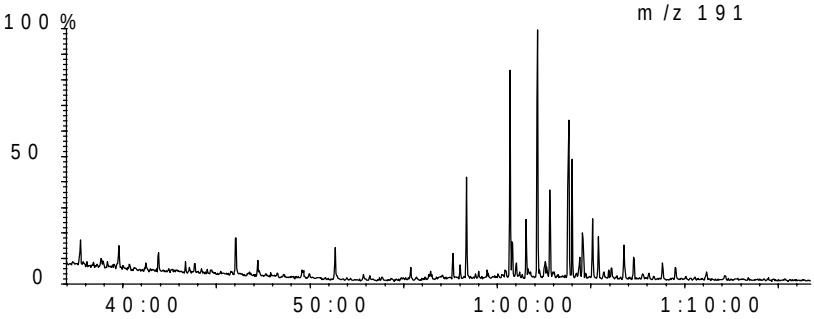
GC of Saturate fraction:



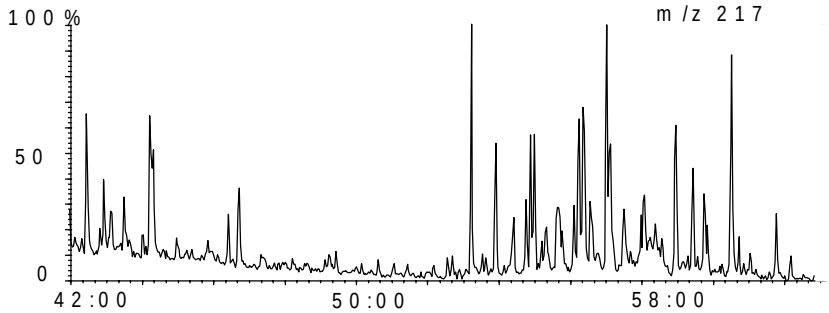
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.71**
C22/C21=	**0.51**
C24/C23=	**0.41**
C26/C25=	**0.47**
Tet/C23=	**0.75**
C27T/C27=	**0.00**
C28/H=	**0.02**
C29/H=	**0.84**
C30X/H=	**0.06**
Ol/H=	**0.00**
C31R/H=	**0.48**
GA/C31R=	**0.17**
C35S/C34S=	**0.51**
Ster/Terp=	**0.55**
Rearr/Reg=	**1.08**
%C27=	**40.01**
%C28=	**23.26**
%C29=	**36.73**
C29 20S/R=	**0.45**
Ts/Tm=	**0.26**
C29D/H=	**0.17**
DM/H=	**0.00**

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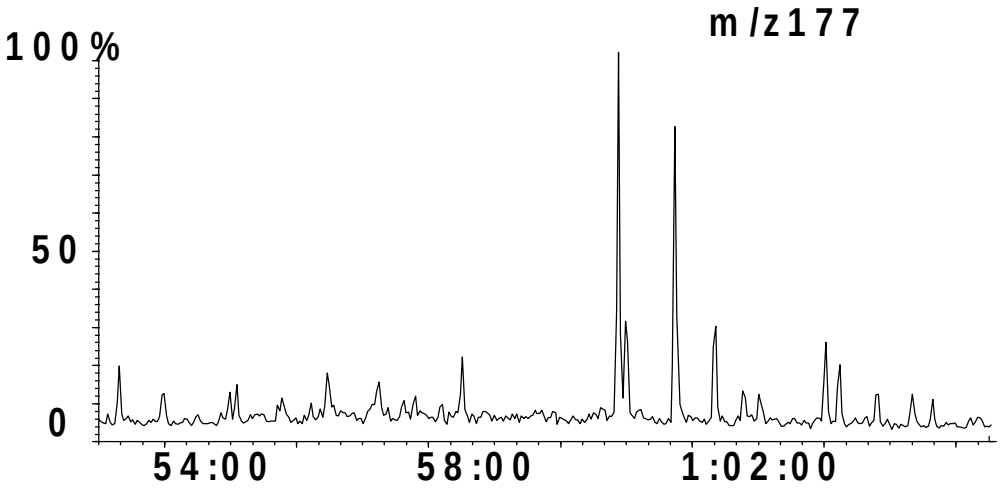
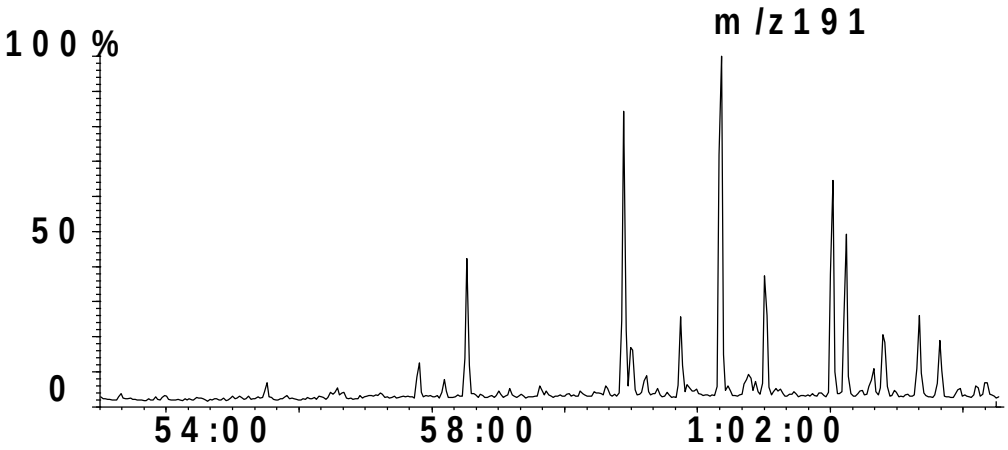
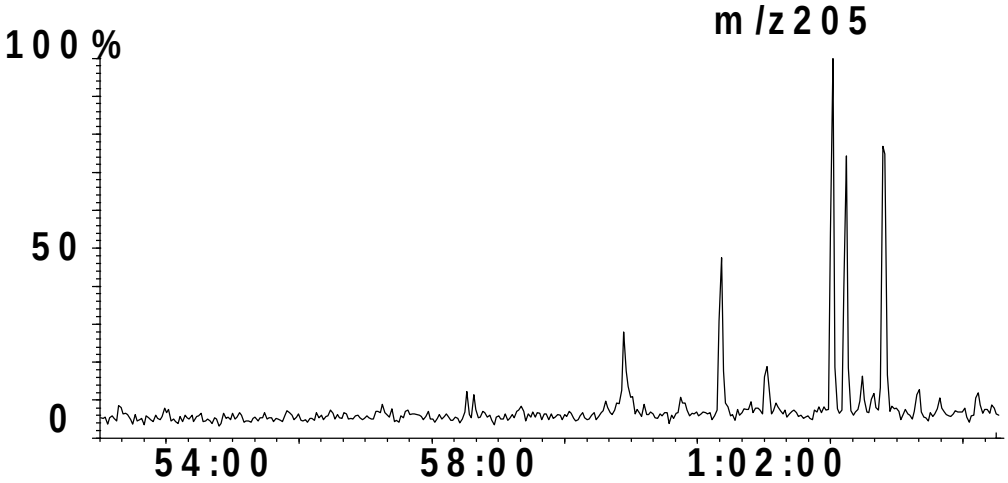
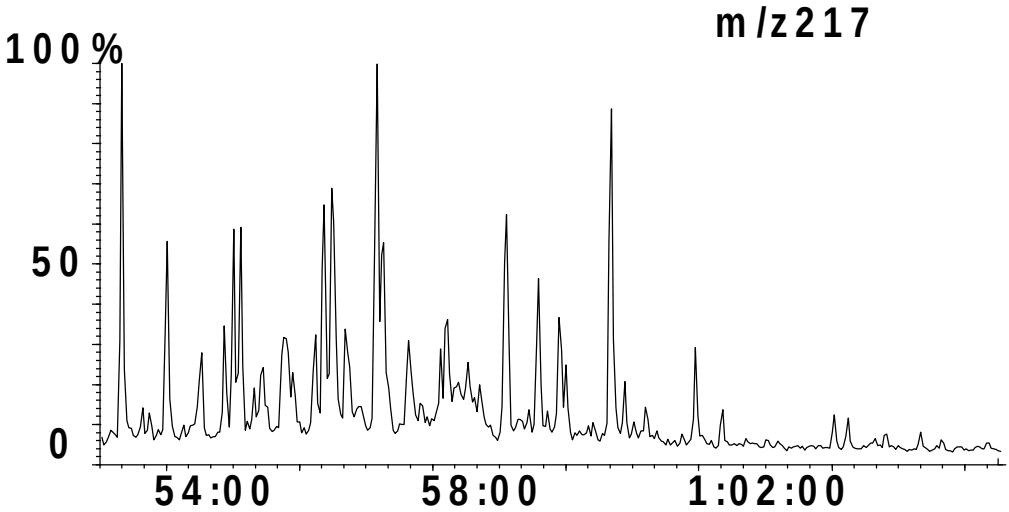
Country: **Australia**	Depth: **2060-2065m**	04-Jun-98
Basin: **Browse**	Age: **122** **(Ma)**	Sample ID: **9273**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**

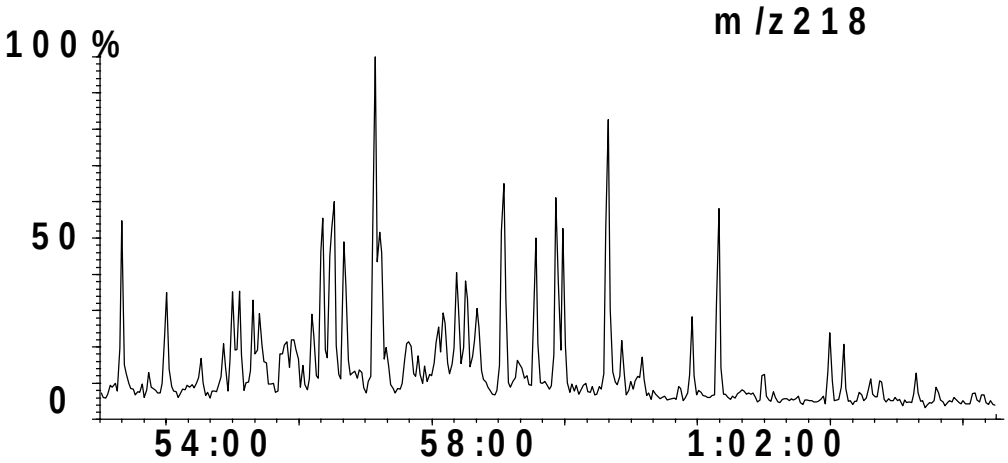


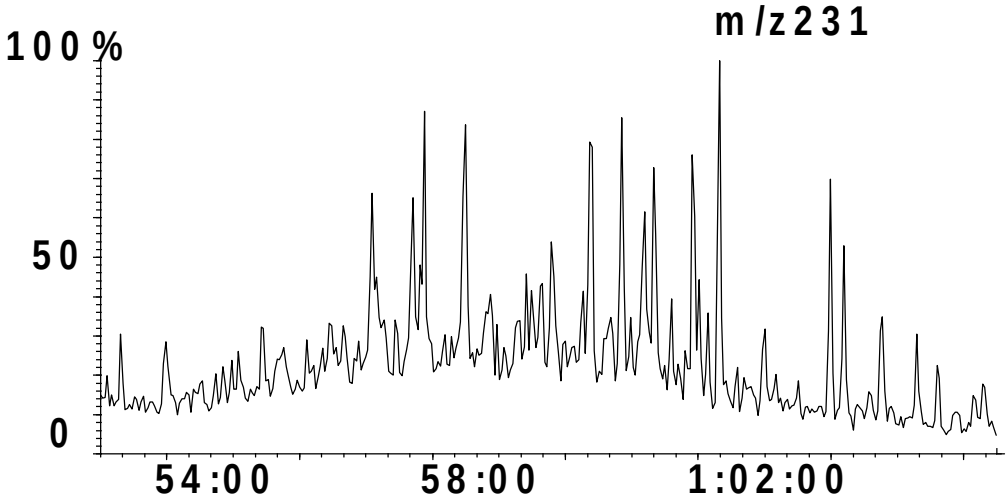




Country: **Australia**	Depth: **2060-2065m**	04-Jun-98
Basin: **Browse**	Age: **122** **(Ma)**	Sample ID: **9273**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3825-3830m**		04-Jun-98
Basin:	**Browse**	Age:	**133**	**(Ma)**	Sample ID: **9280**
Well:	**Brewster 1a**	Formation:			Lat: **-13.913706**
Test:					Long: **123.257844**

BULK PROPERTIES:

Rock Eval:

Tmax	**437**
S1:	**0.99**
S2:	**1.11**
S3:	**2.3**
TOC	**2.54**
HI:	**43.70**
OI:	**90.55**
PI:	**0.471**
PC:	**0.172**
S2/S3:	**0.48**

C15+ Composition

EOM ppm:	**5073**
HC ppm:	**1620**
mgHC/gTOC	**63.8**
% Sat:	**25.8**
% Aro:	**17.9**
% NSO:	**56.4**
% Asph:	**0.0**
Sats/Aro	**1.44**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

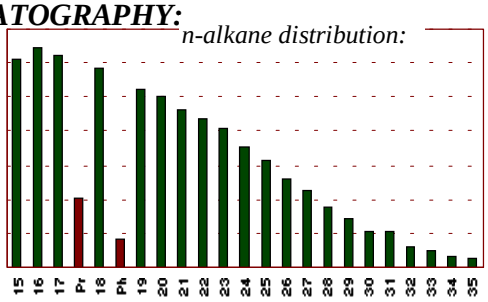
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

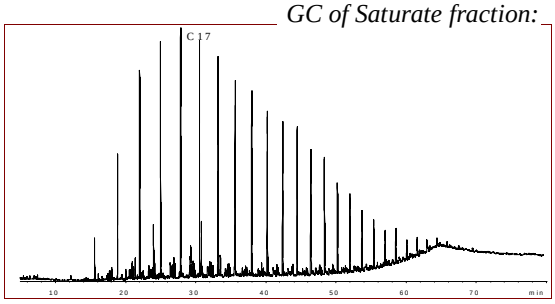
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.39**
Pr/n-C17:	**0.33**
Ph/n-C18:	**0.14**
n-C27/n-C17:	**0.36**
CPI 1:	**1.03**

n-alkane distribution:



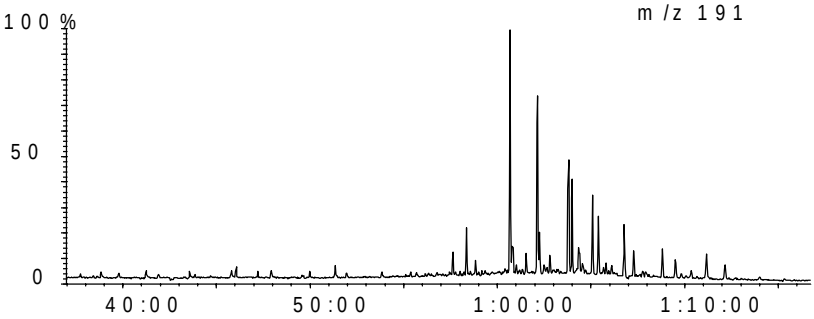
GC of Saturate fraction:



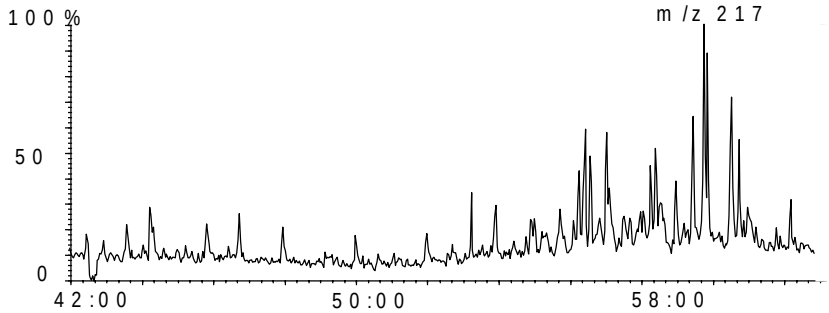
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.36**
C22/C21=	**0.89**
C24/C23=	**0.60**
C26/C25=	**0.72**
Tet/C23=	**0.90**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**1.38**
C30X/H=	**0.05**
Ol/H=	**0.00**
C31R/H=	**0.54**
GA/C31R=	**0.28**
C35S/C34S=	**0.91**
Ster/Terp=	**0.20**
Rearr/Reg=	**0.64**
%C27=	**34.48**
%C28=	**18.10**
%C29=	**47.41**
C29 20S/R=	**0.84**
Ts/Tm=	**0.50**
C29D/H=	**0.11**
DM/H=	**0.00**

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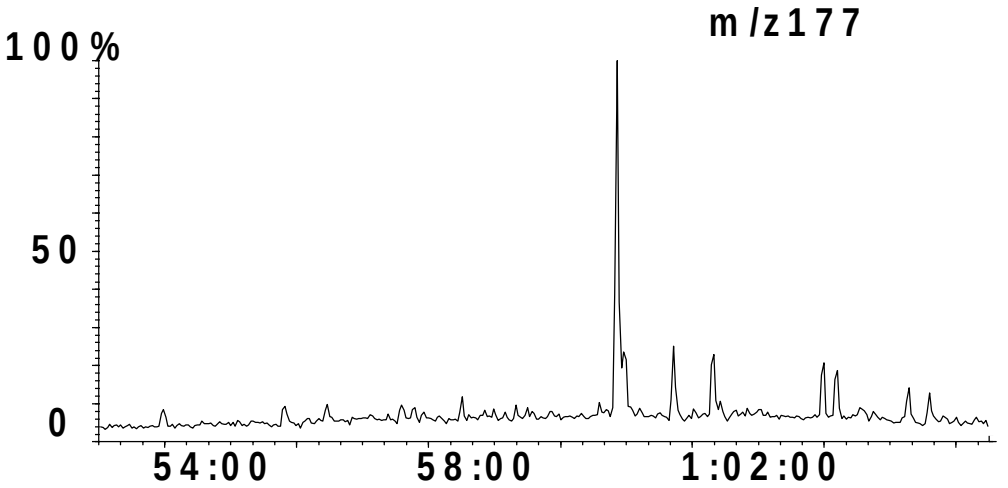
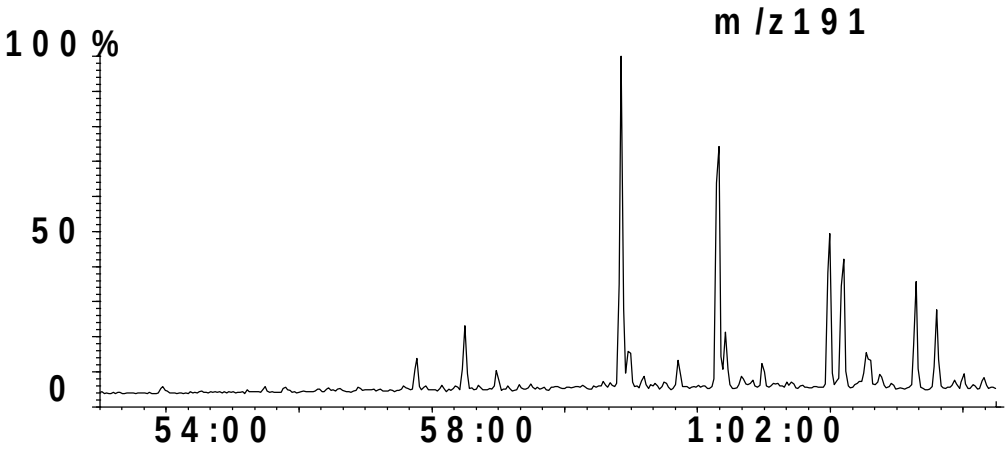
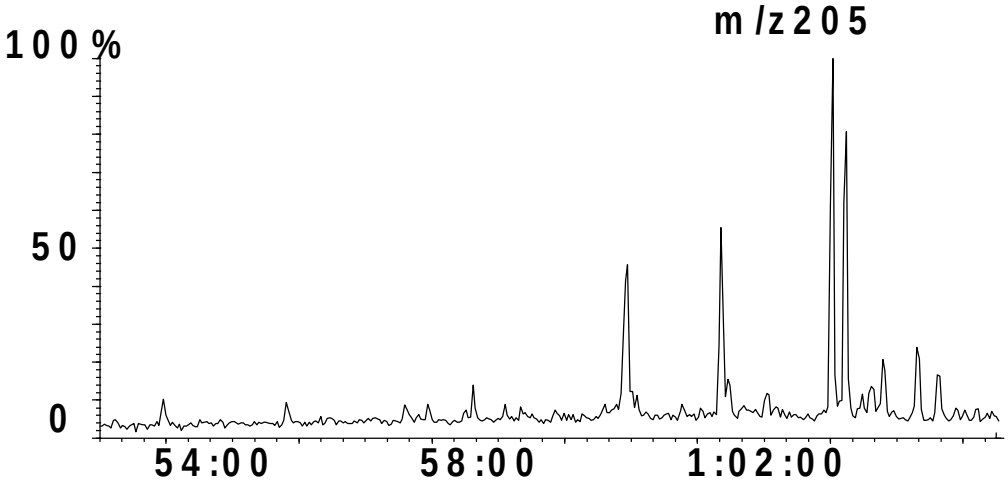
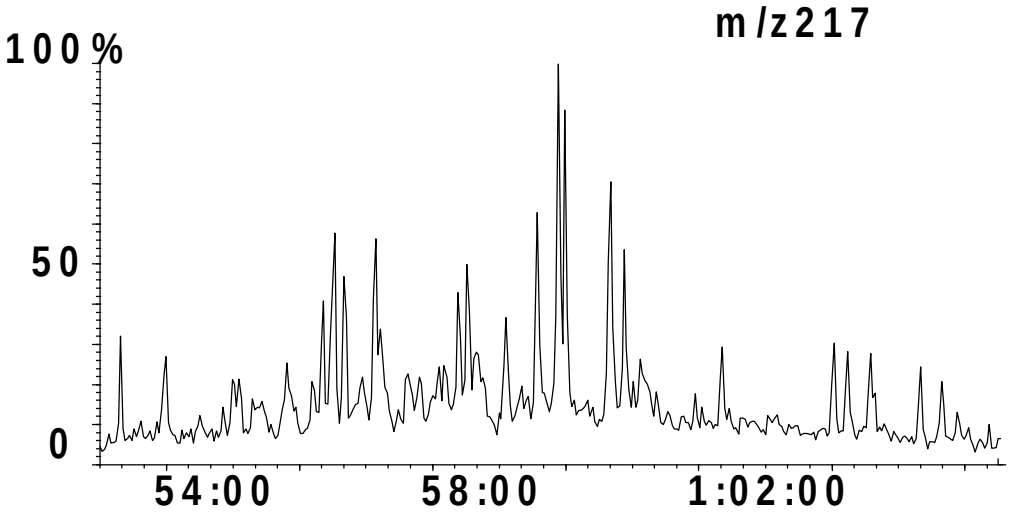
Country: **Australia**	Depth: **3825-3830m**	04-Jun-98
Basin: **Browse**	Age: **133** **(Ma)**	Sample ID: **9280**
Well: **Brewster 1a**	Formation:	Lat: **-13.913706**
Test:		Long: **123.257844**

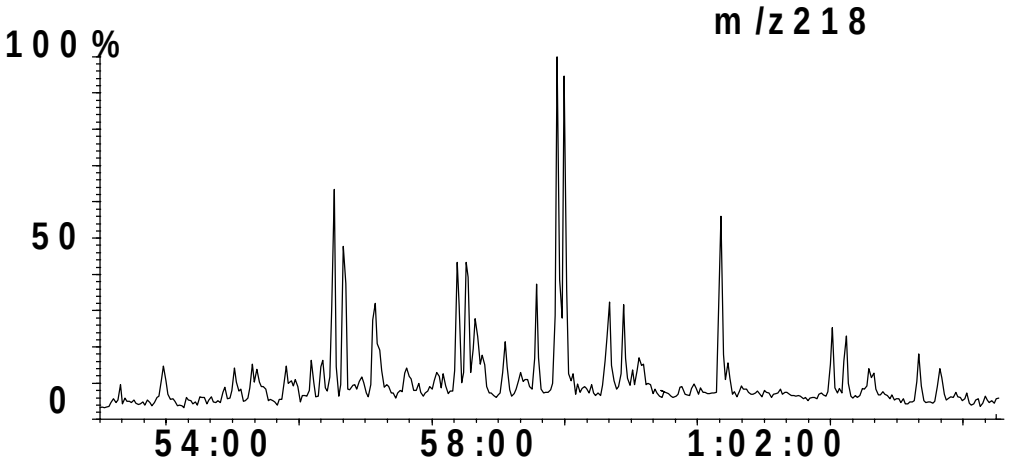


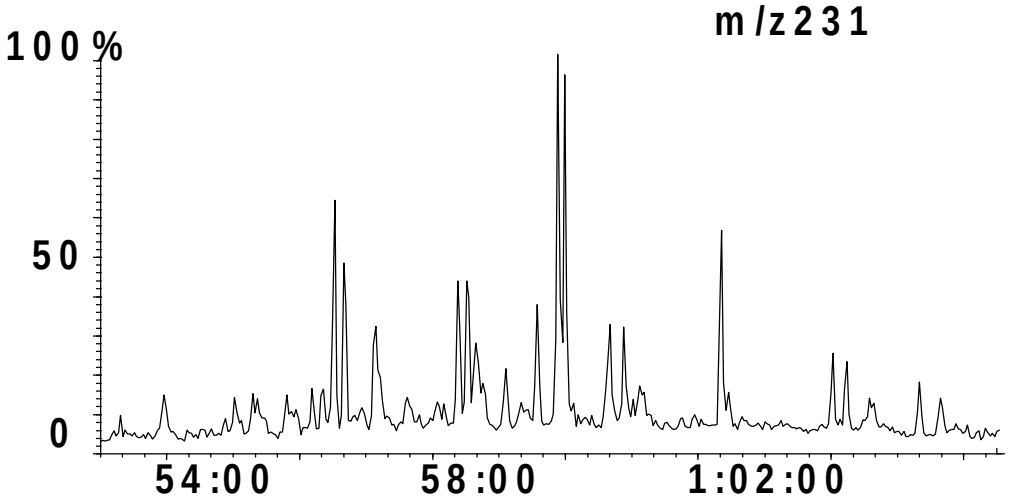




Country: **Australia**	Depth: **3825-3830m**	04-Jun-98
Basin: **Browse**	Age: **133** **(Ma)**	Sample ID: **9280**
Well: **Brewster 1a**	Formation:	Lat: **-13.913706**
Test:		Long: **123.257844**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **2649-2655m**
Age: **58.8** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9290**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**420**
S1:	**0.09**
S2:	**1.58**
S3:	**1.5**
TOC	**0.97**
HI:	**162.8**
OI:	**154.6**
PI:	**5.389**
PC:	**0.136**
S2/S3:	**1.05**

C15+ Composition

EOM ppm:	**744**
HC ppm:	**103**
mgHC/gTOC	**10.6**
% Sat:	**8.4**
% Aro:	**6.7**
% NSO:	**84.9**
% Asph:	**0.0**
Sats/Aro	**1.25**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

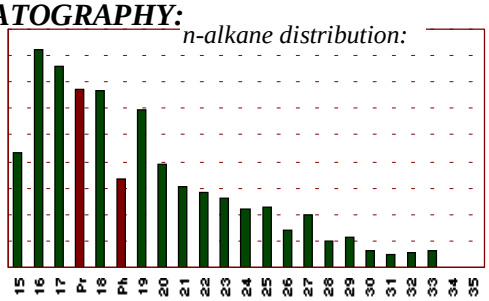
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

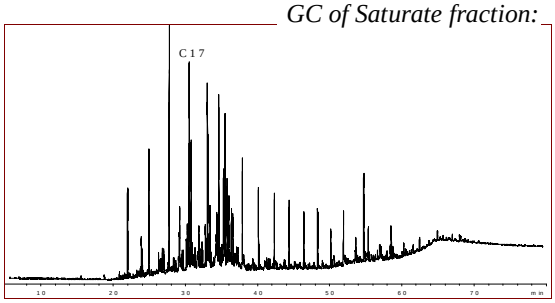
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.04**
Pr/n-C17:	**0.89**
Ph/n-C18:	**0.50**
n-C27/n-C17:	**0.26**
CPI 1:	**1.26**

n-alkane distribution:



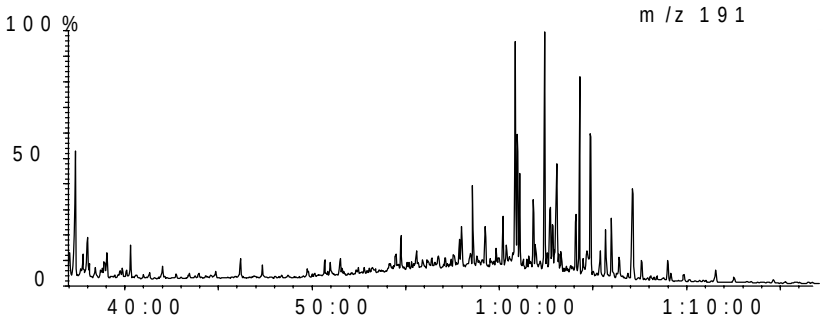
GC of Saturate fraction:



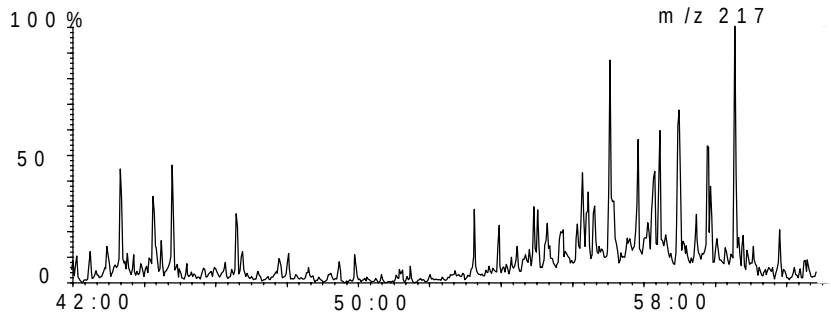
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.19**
C22/C21=	**0.42**
C24/C23=	**0.66**
C26/C25=	**0.72**
Tet/C23=	**0.84**
C27T/C27=	**0.00**
C28/H=	**0.20**
C29/H=	**0.56**
C30X/H=	**0.02**
Ol/H=	**0.00**
C31R/H=	**0.84**
GA/C31R=	**0.10**
C35S/C34S=	**1.74**
Ster/Terp=	**0.47**
Rearr/Reg=	**0.36**
%C27=	**33.54**
%C28=	**24.83**
%C29=	**41.63**
C29 20S/R=	**0.17**
Ts/Tm=	**0.48**
C29D/H=	**0.70**
DM/H=	**0.00**

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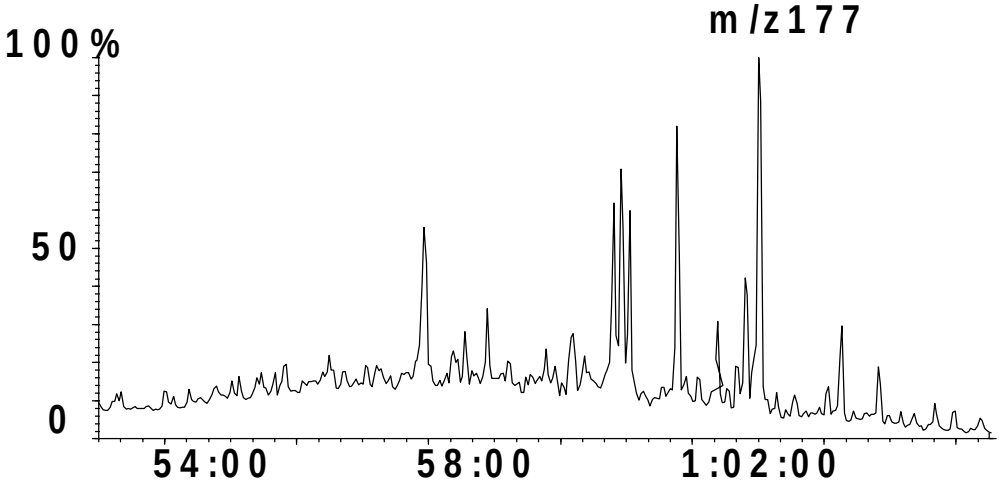
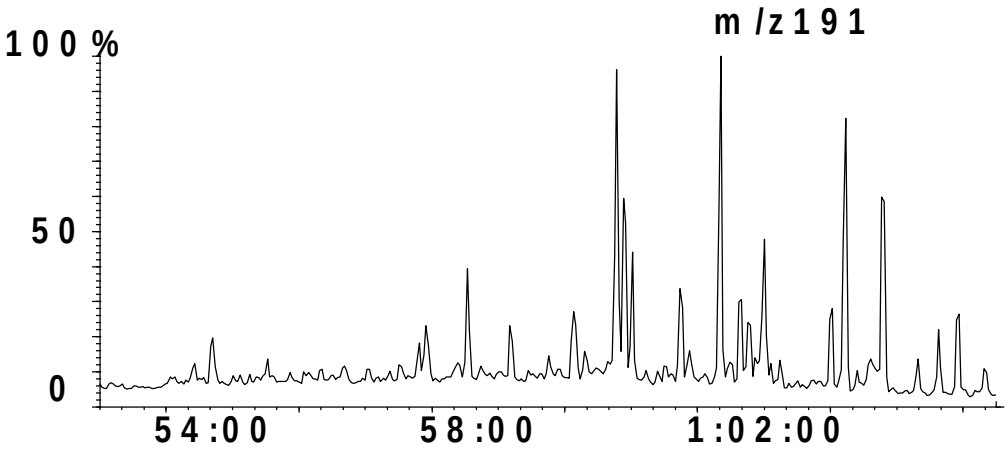
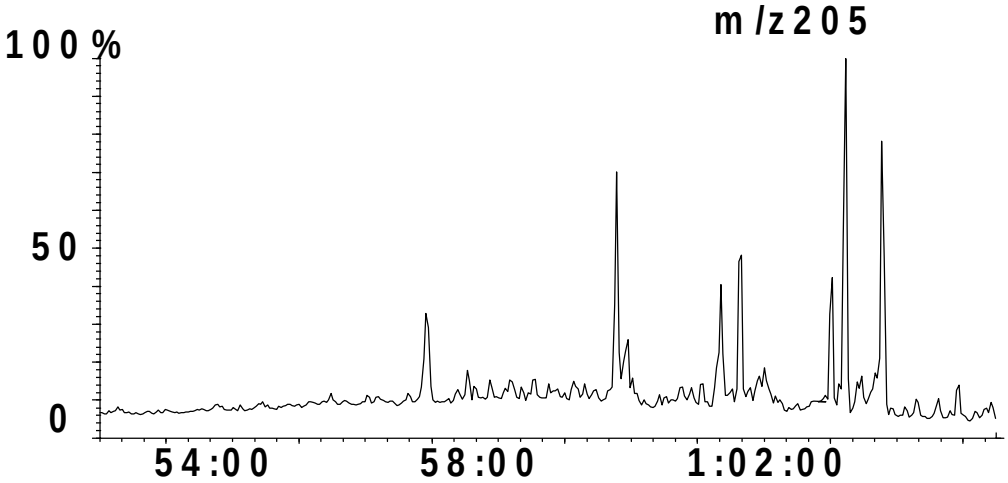
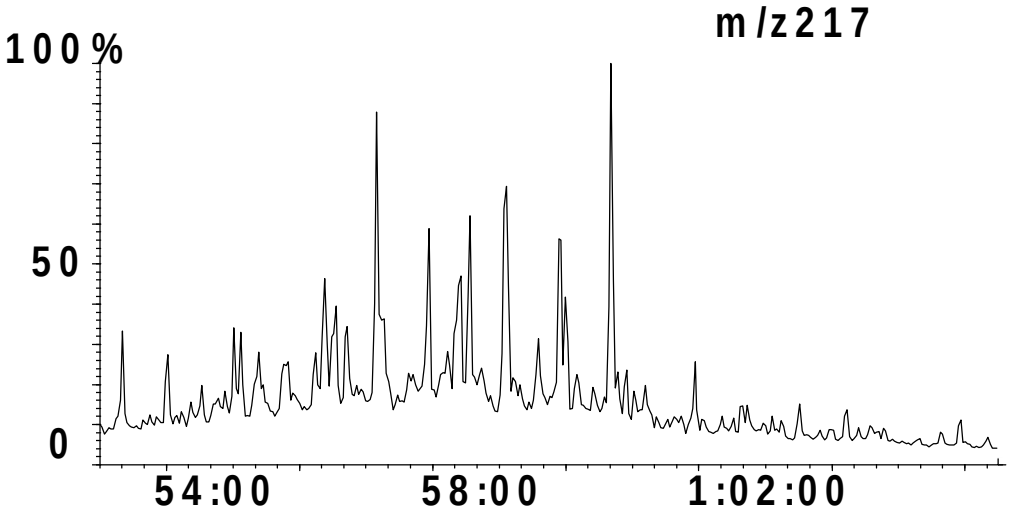
Country: **Australia**	Depth: **2649-2655m**	04-Jun-98
Basin: **Browse**	Age: **58.8** **(Ma)**	Sample ID: **9290**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

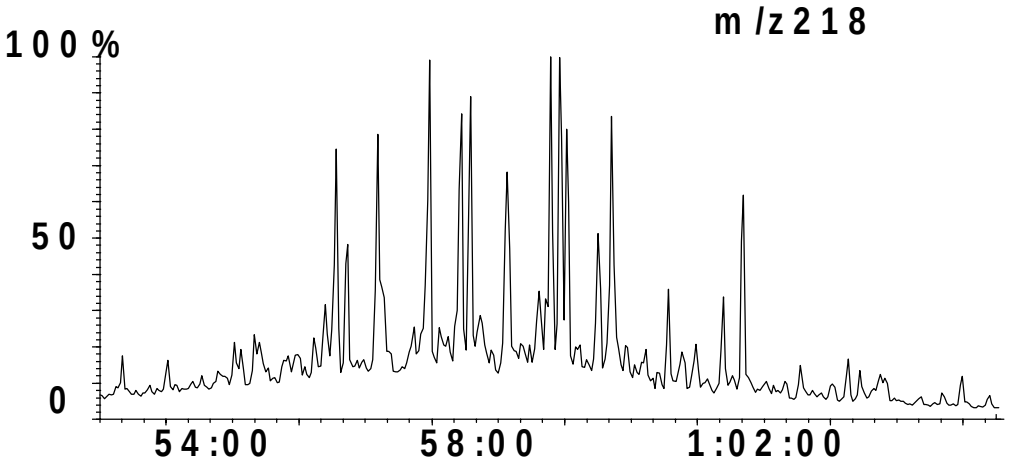


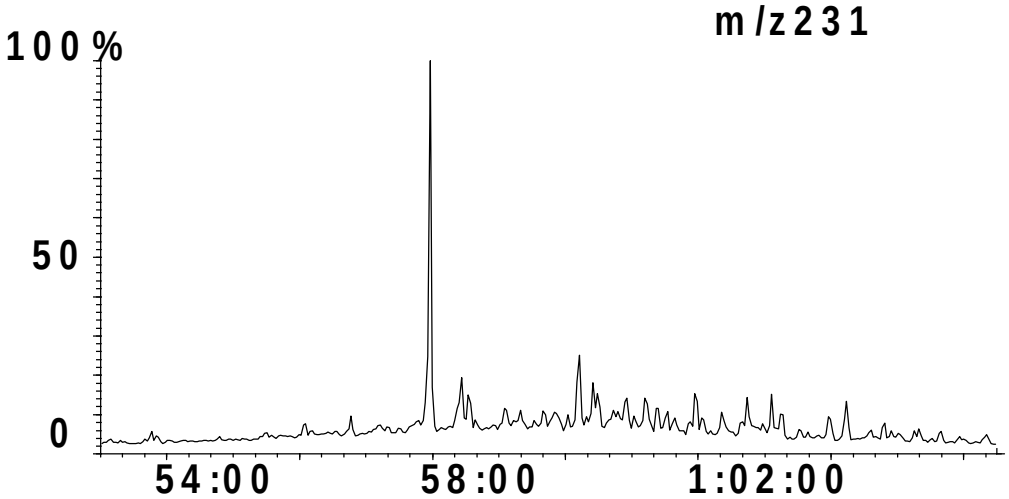




Country: **Australia**	Depth: **2649-2655m**	04-Jun-98
Basin: **Browse**	Age: **58.8** **(Ma)**	Sample ID: **9290**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3207-3210m**		04-Jun-98
Basin:	**Browse**	Age:	**81**	**(Ma)**	Sample ID: **9291**
Well:	**Kalyptea 1/ST1**	Formation:			Lat: **-13.033205**
Test:					Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**434**
S1:	**0.06**
S2:	**1.01**
S3:	**1.09**
TOC	**0.96**
HI:	**105.2**
OI:	**113.5**
PI:	**5.607**
PC:	**0.087**
S2/S3:	**0.93**

C15+ Composition

EOM ppm:	**701**
HC ppm:	**338**
mgHC/gTOC	**35.2**
% Sat:	**14.3**
% Aro:	**19.5**
% NSO:	**66.2**
% Asph:	**0.0**
Sats/Aro	**0.73**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

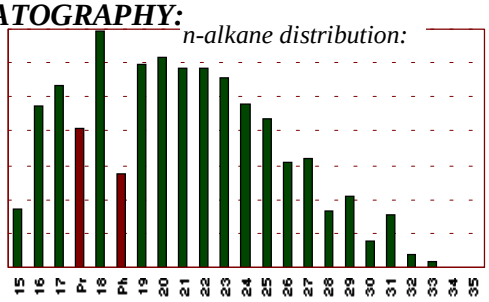
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

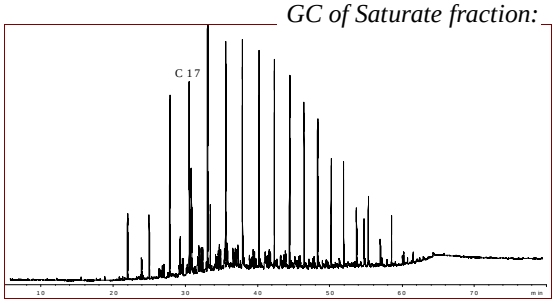
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.48**
Pr/n-C17:	**0.77**
Ph/n-C18:	**0.40**
n-C27/n-C17:	**0.60**
CPI 1:	**1.18**

n-alkane distribution:



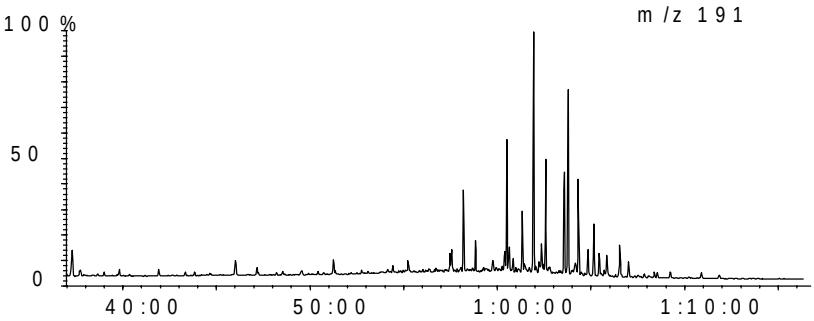
GC of Saturate fraction:



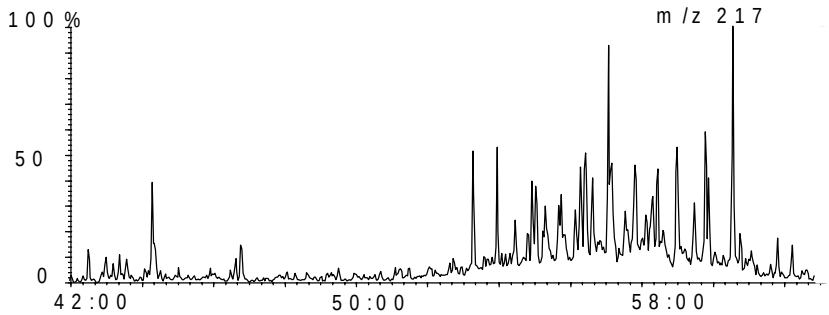
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.41**
C22/C21=	**0.60**
C24/C23=	**0.51**
C26/C25=	**0.91**
Tet/C23=	**0.95**
C27T/C27=	**0.01**
C28/H=	**0.04**
C29/H=	**0.55**
C30X/H=	**0.05**
Ol/H=	**0.01**
C31R/H=	**0.77**
GA/C31R=	**0.06**
C35S/C34S=	**1.14**
Ster/Terp=	**0.27**
Rearr/Reg=	**0.59**
%C27=	**37.30**
%C28=	**19.20**
%C29=	**43.50**
C29 20S/R=	**0.22**
Ts/Tm=	**0.21**
C29D/H=	**0.18**
DM/H=	**0.00**

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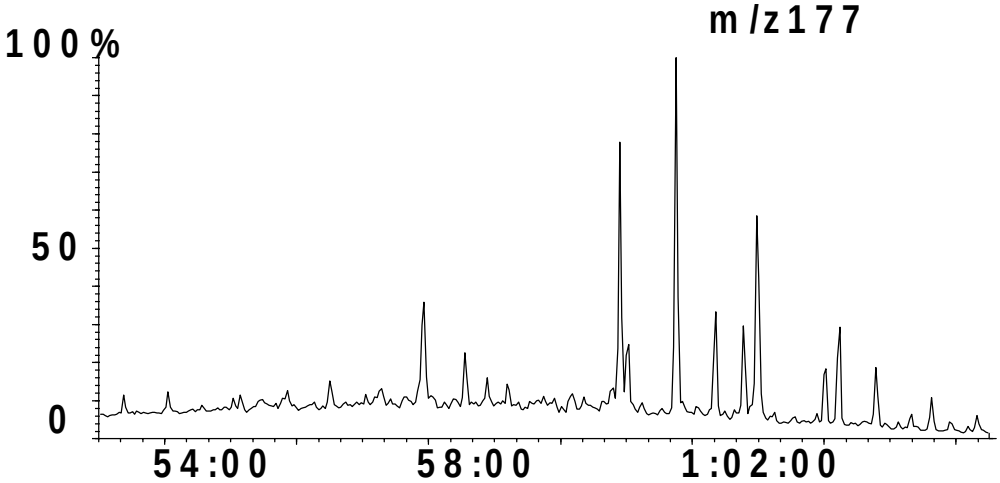
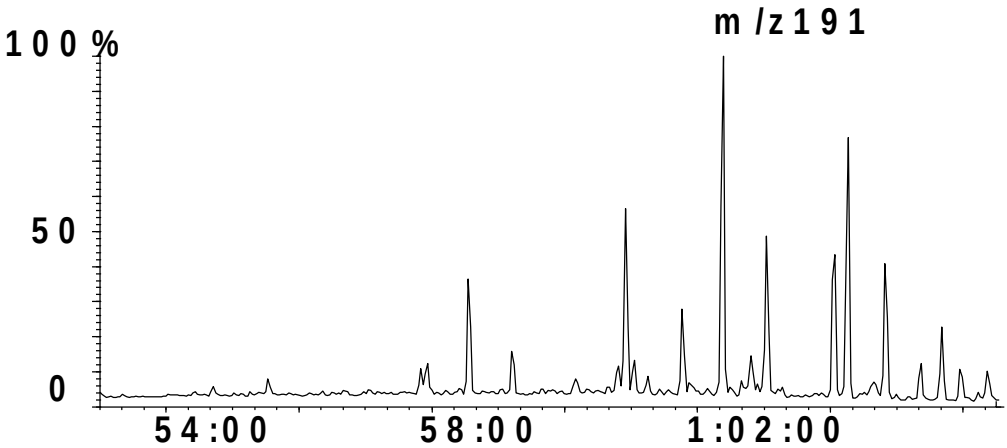
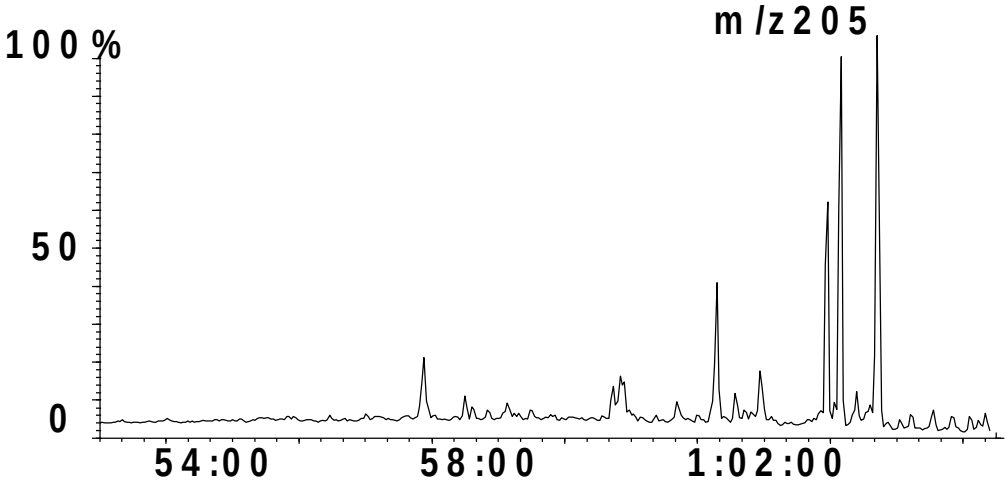
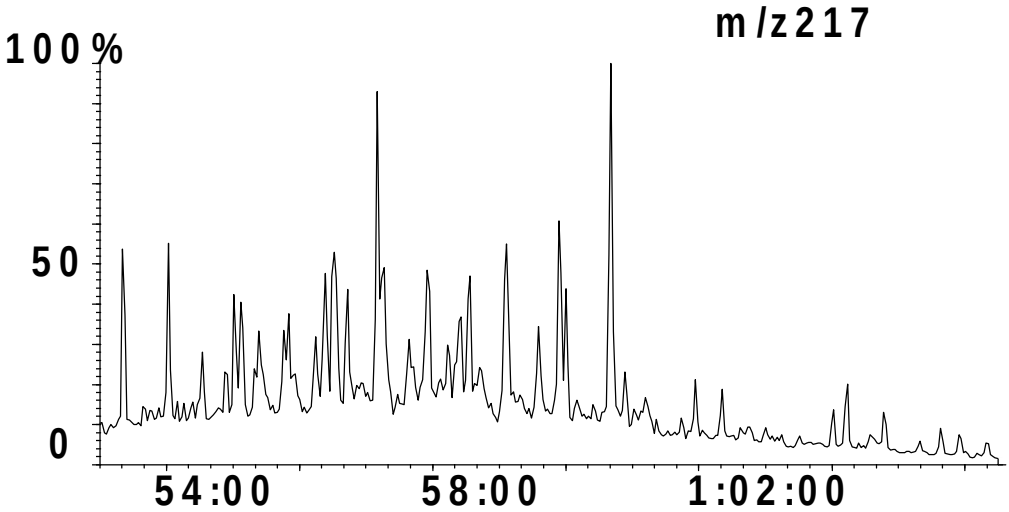
Country: **Australia**	Depth: **3207-3210m**	04-Jun-98
Basin: **Browse**	Age: **81** **(Ma)**	Sample ID: **9291**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

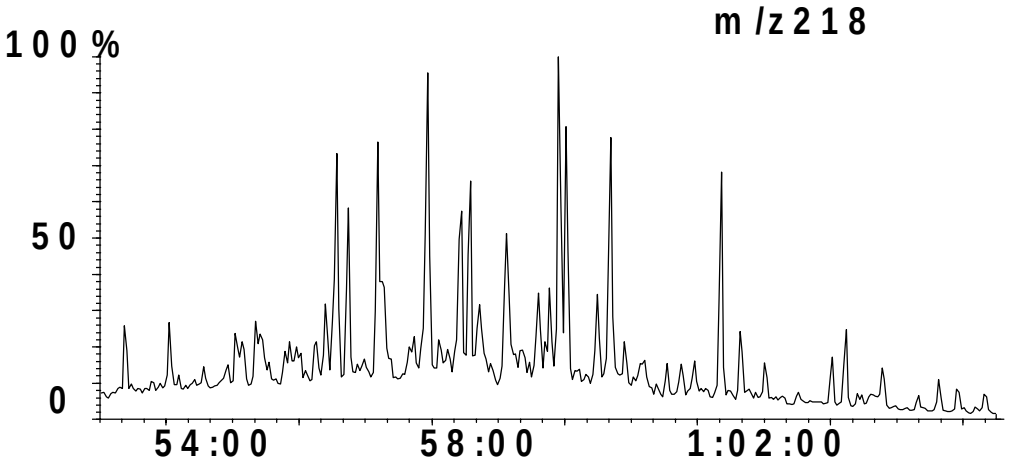


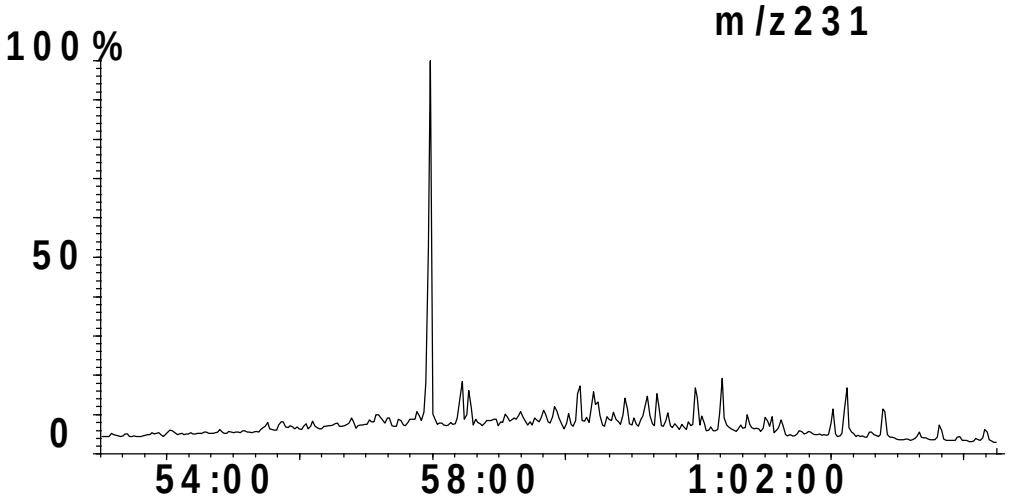




Country: **Australia**	Depth: **3207-3210m**	04-Jun-98
Basin: **Browse**	Age: **81** **(Ma)**	Sample ID: **9291**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3579-3585m**		04-Jun-98
Basin:	**Browse**	Age:	**95.9**	**(Ma)**	Sample ID: **9292**
Well:	**Kalyptea 1/ST1**	Formation:			Lat: **-13.033205**
Test:					Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**427**
S1:	**0.06**
S2:	**0.25**
S3:	**3.36**
TOC	**0.55**
HI:	**45.45**
OI:	**610.9**
PI:	**0.193**
PC:	**0.025**
S2/S3:	**0.07**

C15+ Composition

EOM ppm:	**181**
HC ppm:	**63**
mgHC/gTOC	**11.4**
% Sat:	**12.2**
% Aro:	**9.8**
% NSO:	**78.0**
% Asph:	**0.0**
Sats/Aro	**1.25**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

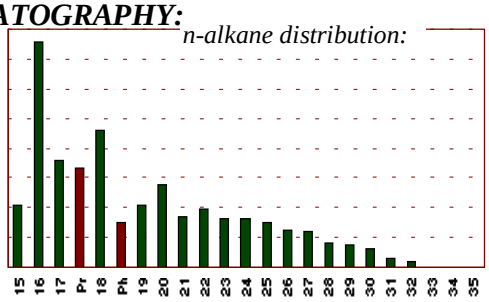
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

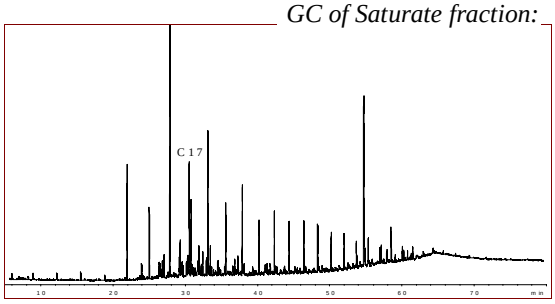
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.24**
Pr/n-C17:	**0.93**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.33**
CPI 1:	**1.01**

n-alkane distribution:



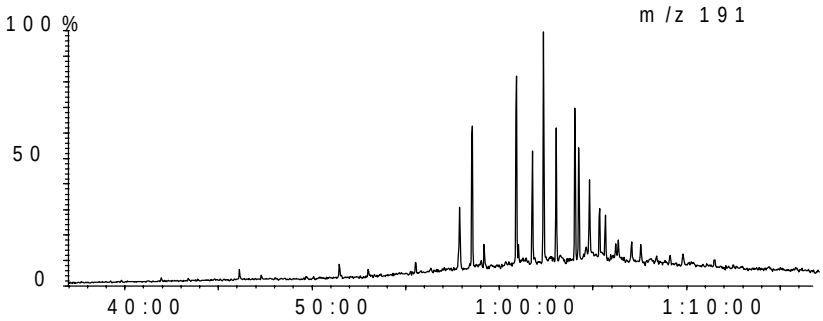
GC of Saturate fraction:



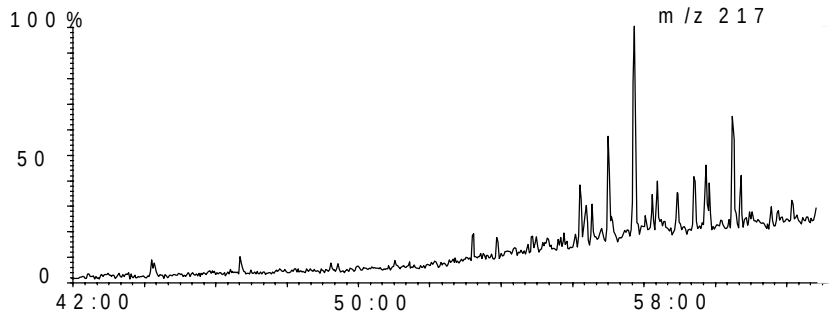
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.07**
C22/C21=	**0.43**
C24/C23=	**0.45**
C26/C25=	**1.07**
Tet/C23=	**1.30**
C27T/C27=	**0.01**
C28/H=	**0.00**
C29/H=	**0.82**
C30X/H=	**0.02**
Ol/H=	**0.00**
C31R/H=	**0.49**
GA/C31R=	**0.12**
C35S/C34S=	**0.92**
Ster/Terp=	**0.19**
Rearr/Reg=	**0.25**
%C27=	**40.84**
%C28=	**14.87**
%C29=	**44.29**
C29 20S/R=	**0.47**
Ts/Tm=	**0.44**
C29D/H=	**0.10**
DM/H=	**0.00**

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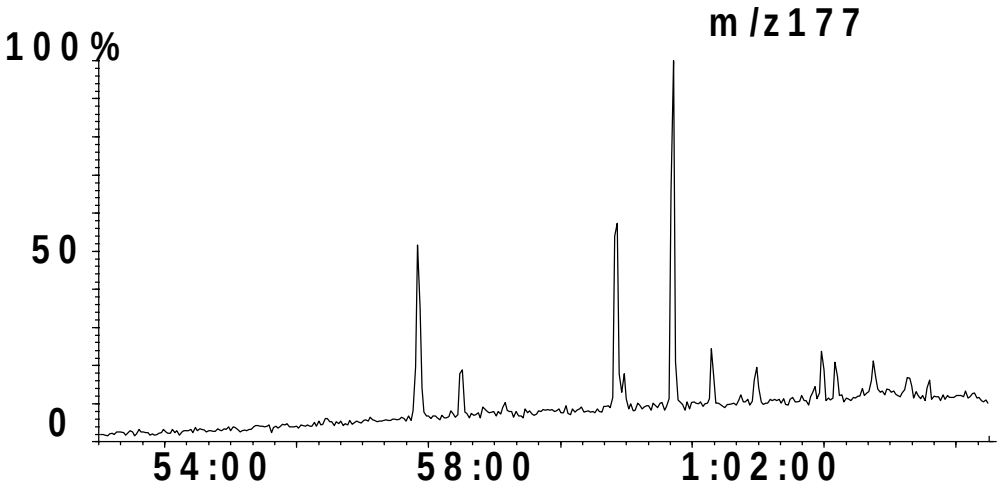
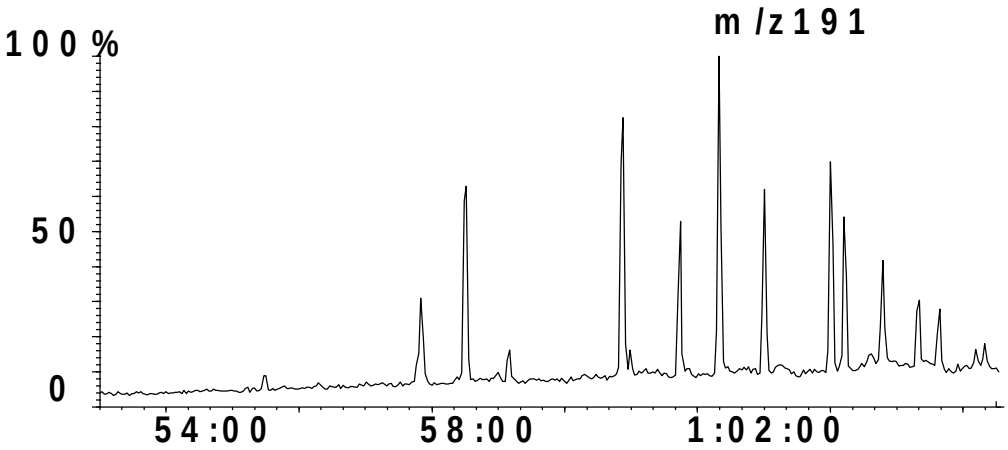
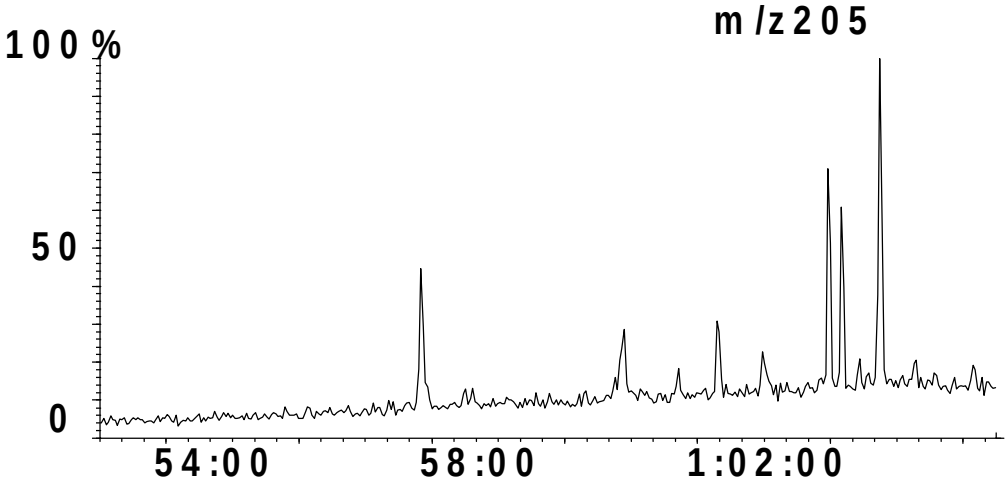
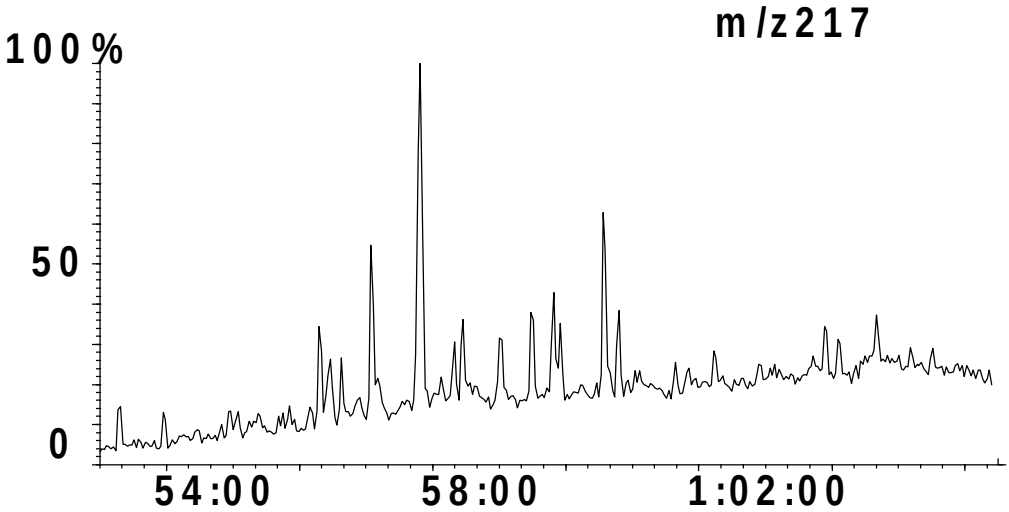
Country: **Australia**	Depth: **3579-3585m**	04-Jun-98
Basin: **Browse**	Age: **95.9** **(Ma)**	Sample ID: **9292**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

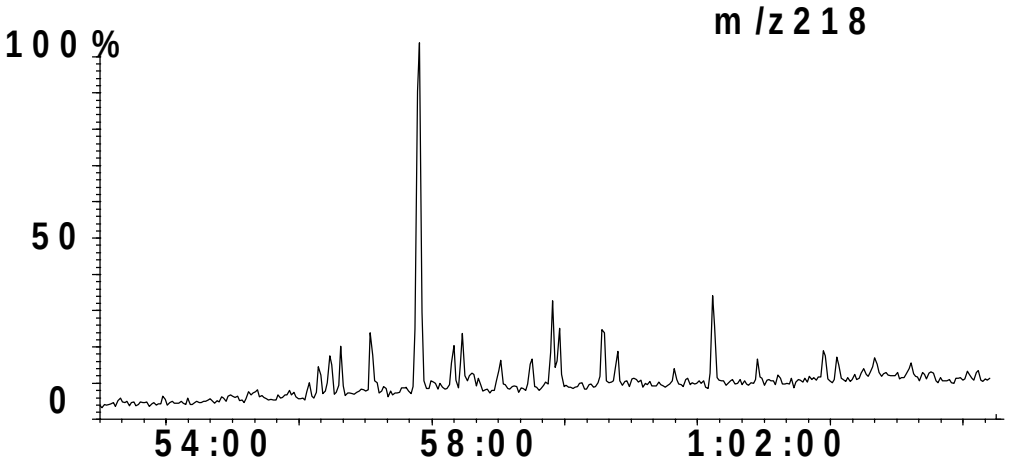


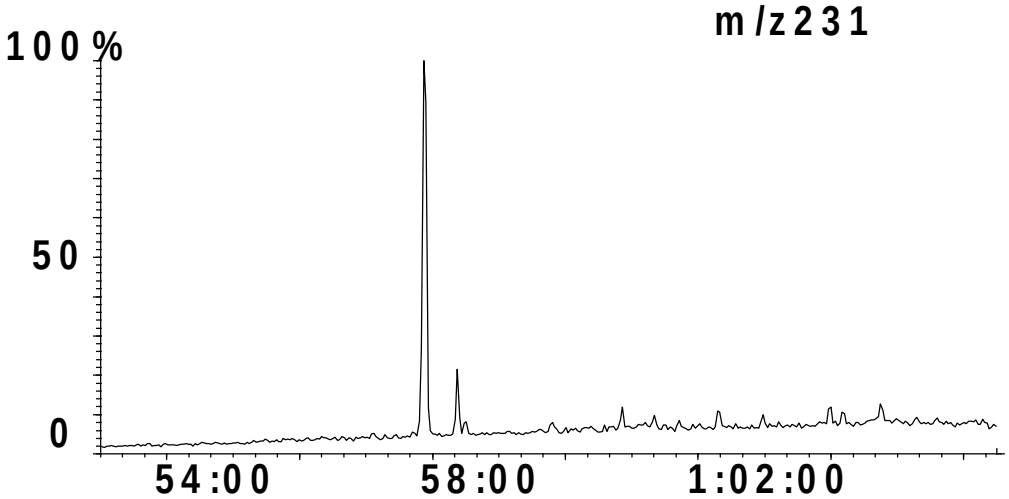




Country: **Australia**	Depth: **3579-3585m**	04-Jun-98
Basin: **Browse**	Age: **95.9** **(Ma)**	Sample ID: **9292**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3618-3621m**		04-Jun-98
Basin:	**Browse**	Age:	**97.4**	**(Ma)**	Sample ID: **9293**
Well:	**Kalyptea 1/ST1**	Formation:			Lat: **-13.033205**
Test:					Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**432**
S1:	**0.1**
S2:	**0.63**
S3:	**1.58**
TOC	**0.84**
HI:	**75**
OI:	**188.0**
PI:	**0.136**
PC:	**0.059**
S2/S3:	**0.40**

C15+ Composition

EOM ppm:	**684**
HC ppm:	**109**
mgHC/gTOC	**13.0**
% Sat:	**7.8**
% Aro:	**13.0**
% NSO:	**79.2**
% Asph:	**0.0**
Sats/Aro	**0.60**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

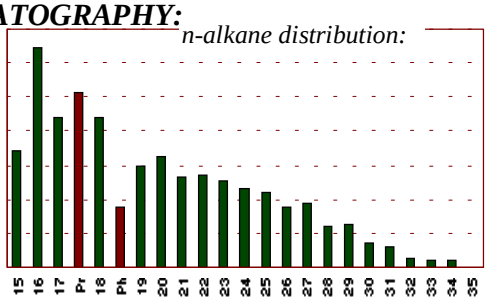
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

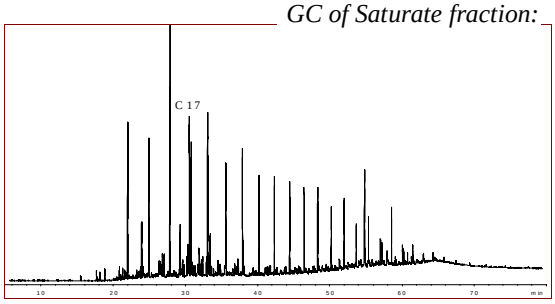
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.94**
Pr/n-C17:	**1.16**
Ph/n-C18:	**0.39**
n-C27/n-C17:	**0.43**
CPI 1:	**1.13**

n-alkane distribution:



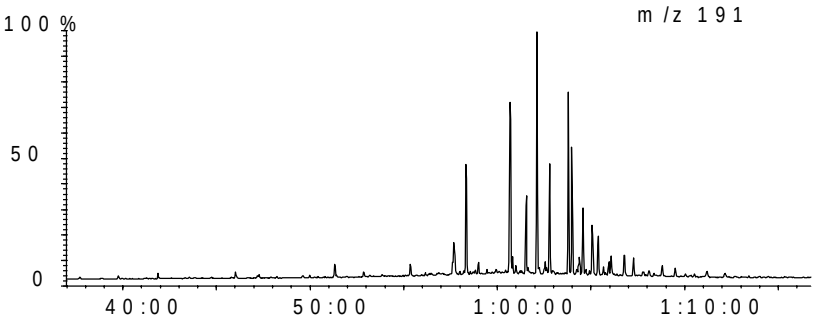
GC of Saturate fraction:



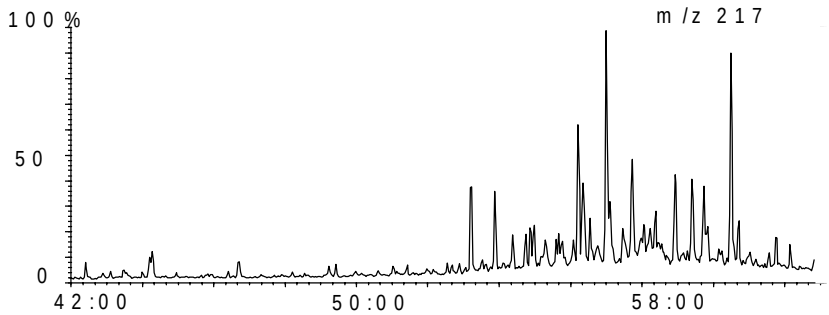
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.32**
C22/C21=	**0.20**
C24/C23=	**0.39**
C26/C25=	**0.96**
Tet/C23=	**1.98**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**0.71**
C30X/H=	**0.03**
Ol/H=	**0.00**
C31R/H=	**0.53**
GA/C31R=	**0.13**
C35S/C34S=	**0.54**
Ster/Terp=	**0.38**
Rearr/Reg=	**0.38**
%C27=	**43.70**
%C28=	**15.57**
%C29=	**40.74**
C29 20S/R=	**0.37**
Ts/Tm=	**0.29**
C29D/H=	**0.09**
DM/H=	**0.00**

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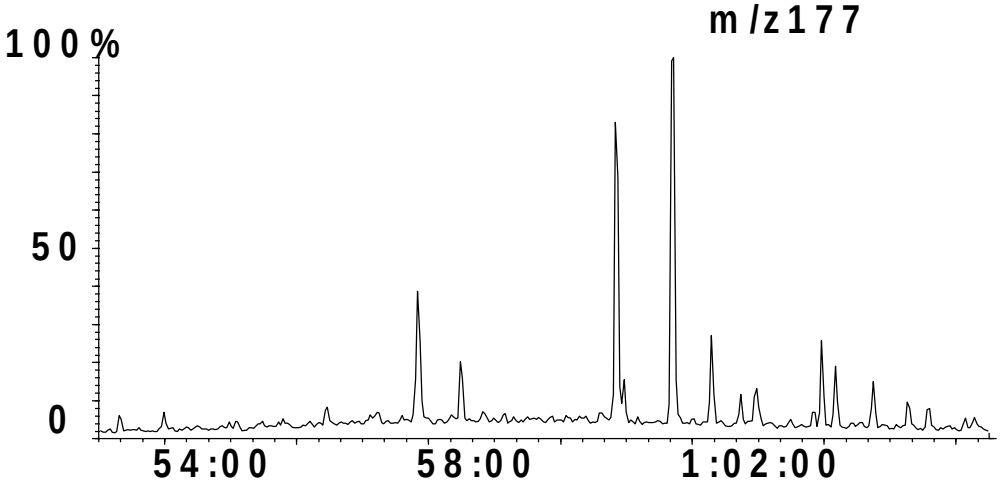
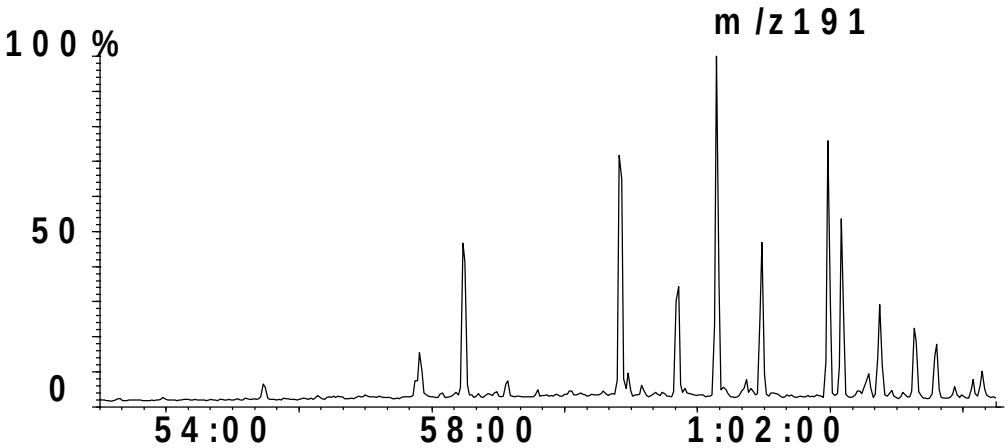
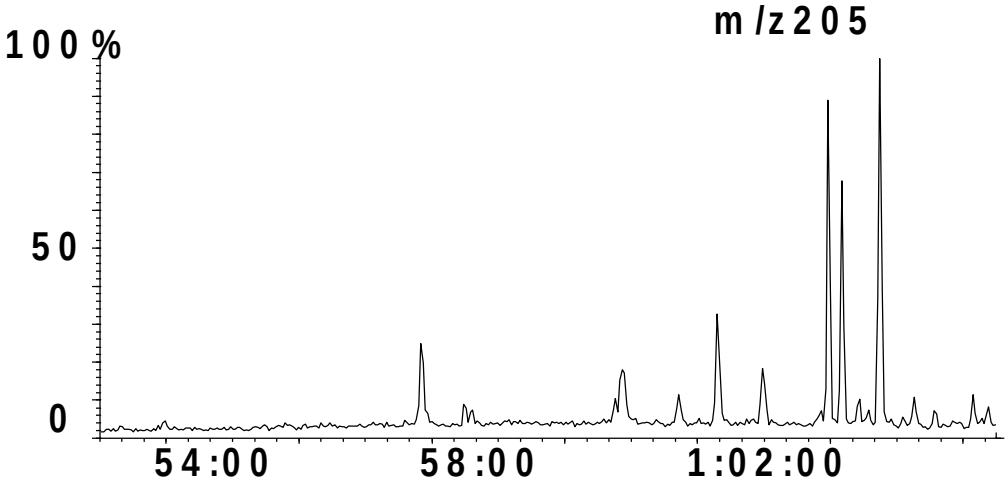
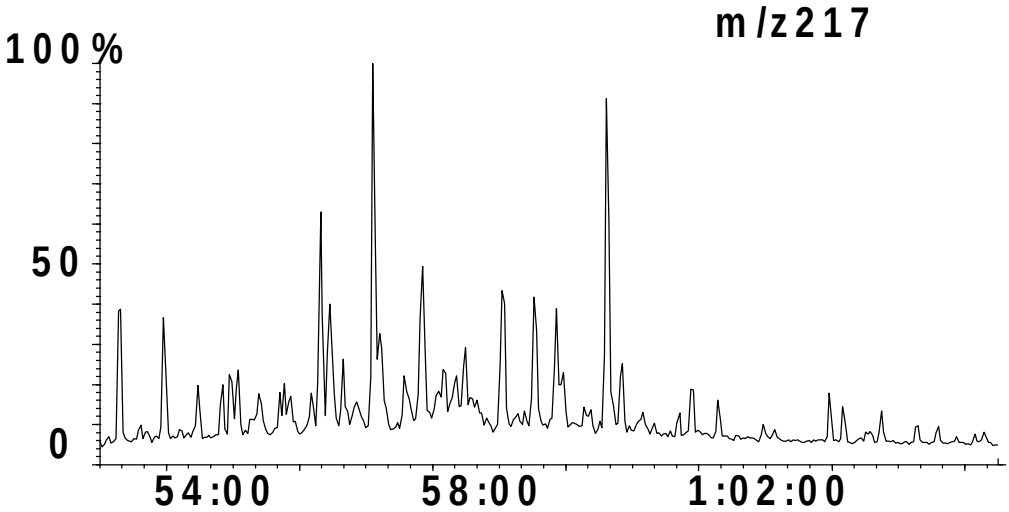
Country: **Australia**	Depth: **3618-3621m**	04-Jun-98
Basin: **Browse**	Age: **97.4** **(Ma)**	Sample ID: **9293**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

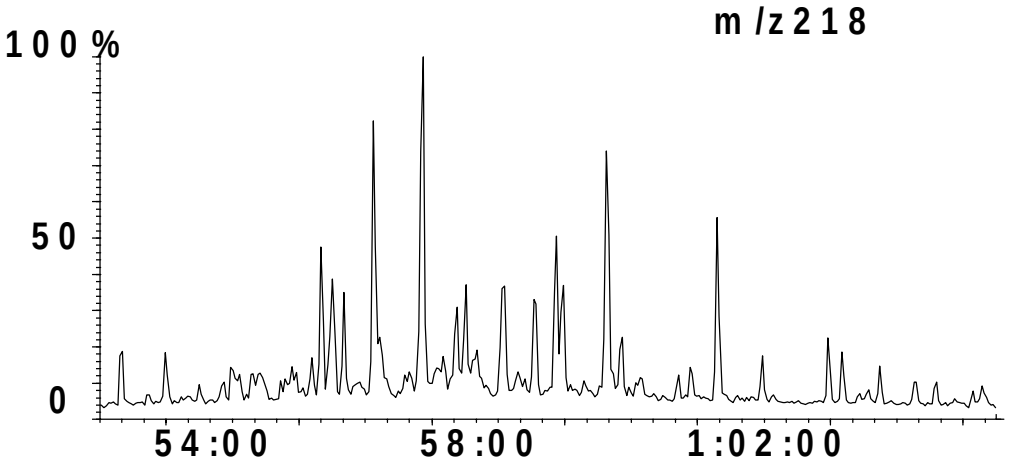


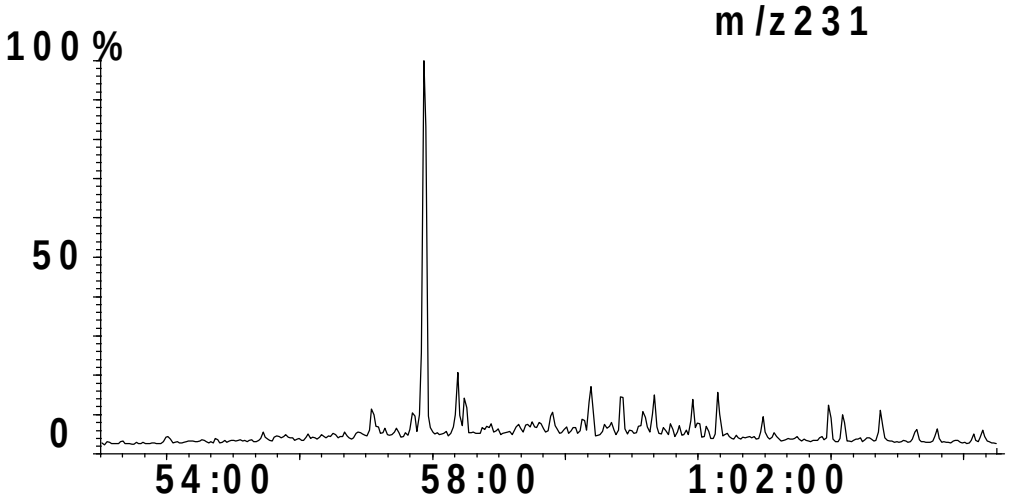




Country: **Australia**	Depth: **3618-3621m**	04-Jun-98
Basin: **Browse**	Age: **97.4** **(Ma)**	Sample ID: **9293**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3663-3666m**		04-Jun-98
Basin:	**Browse**	Age:	**99.2**	**(Ma)**	Sample ID: **9294**
Well:	**Kalyptea 1/ST1**	Formation:			Lat: **-13.033205**
Test:					Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**436**
S1:	**0.12**
S2:	**0.74**
S3:	**0.64**
TOC	**0.89**
HI:	**83.14**
OI:	**71.91**
PI:	**0.139**
PC:	**0.070**
S2/S3:	**1.16**

C15+ Composition

EOM ppm:	**558**
HC ppm:	**214**
mgHC/gTOC	**24.1**
% Sat:	**7.0**
% Aro:	**27.9**
% NSO:	**65.1**
% Asph:	**0.0**
Sats/Aro	**0.25**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

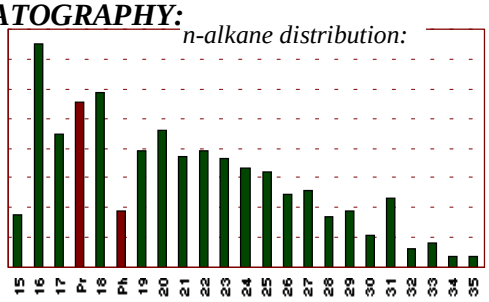
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

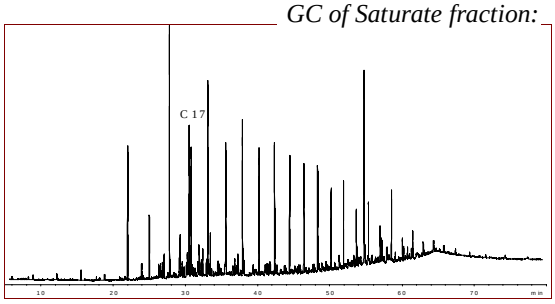
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.91**
Pr/n-C17:	**1.24**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.57**
CPI 1:	**1.14**

n-alkane distribution:



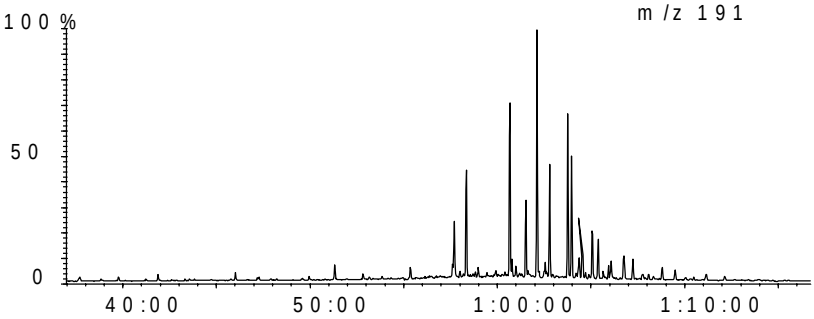
GC of Saturate fraction:



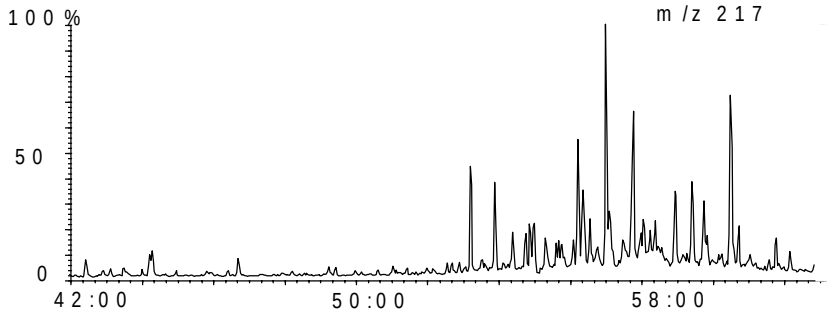
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.53**
C22/C21=	**0.23**
C24/C23=	**0.40**
C26/C25=	**1.02**
Tet/C23=	**1.90**
C27T/C27=	**0.00**
C28/H=	**0.02**
C29/H=	**0.70**
C30X/H=	**0.04**
Ol/H=	**0.00**
C31R/H=	**0.49**
GA/C31R=	**0.16**
C35S/C34S=	**0.48**
Ster/Terp=	**0.45**
Rearr/Reg=	**0.45**
%C27=	**49.79**
%C28=	**14.27**
%C29=	**35.94**
C29 20S/R=	**0.46**
Ts/Tm=	**0.52**
C29D/H=	**0.10**
DM/H=	**0.00**

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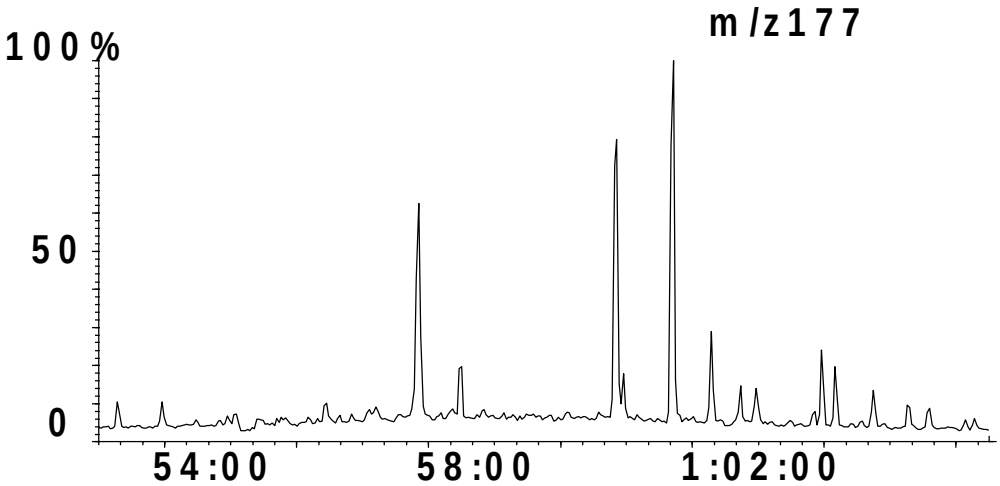
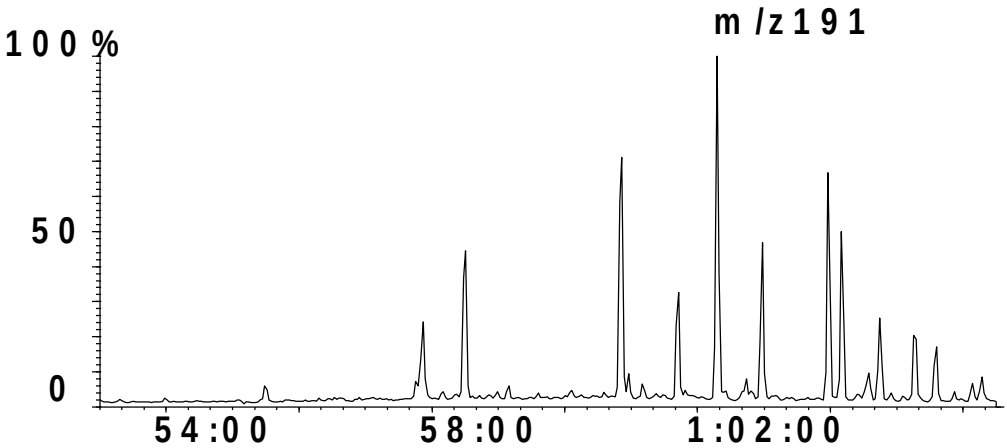
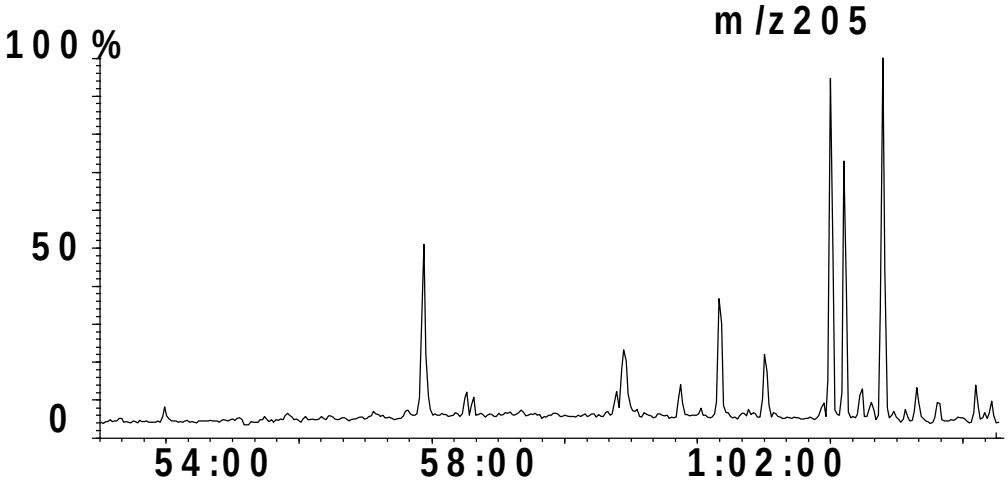
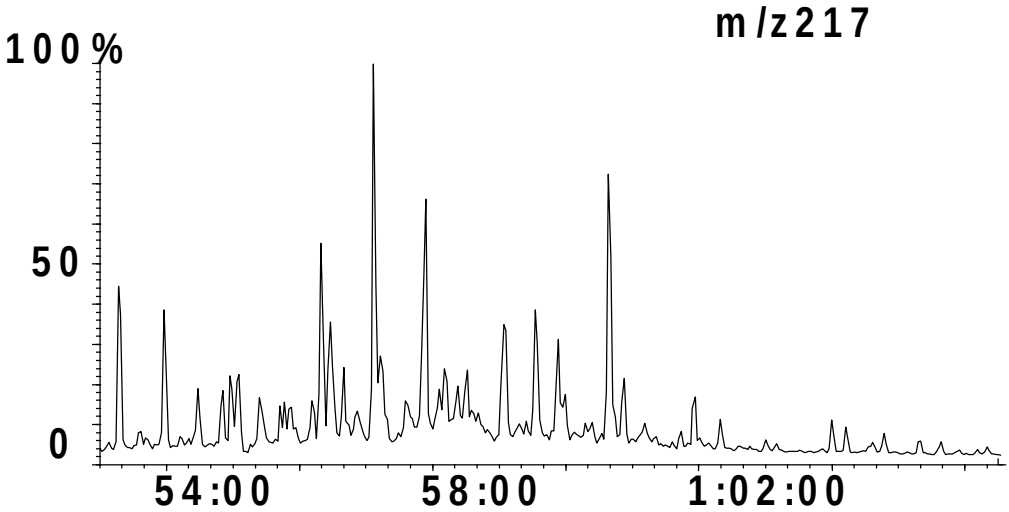
Country: **Australia**	Depth: **3663-3666m**	04-Jun-98
Basin: **Browse**	Age: **99.2** **(Ma)**	Sample ID: **9294**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

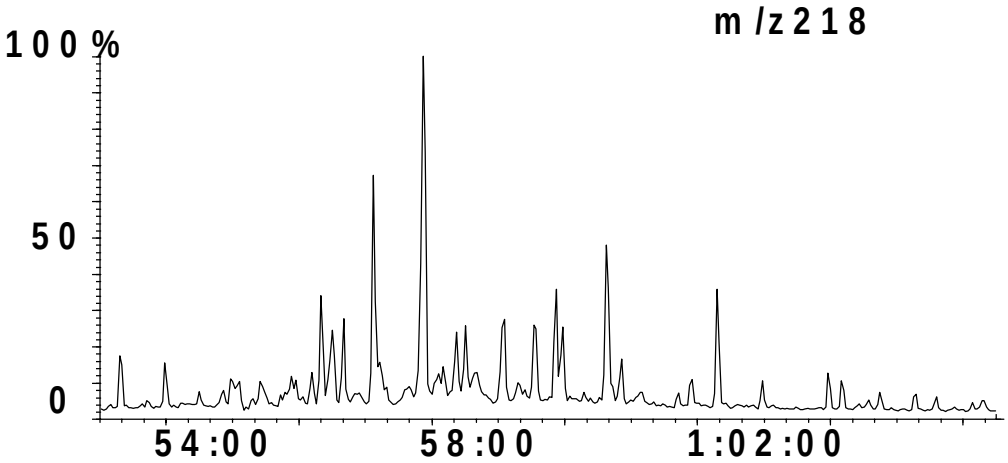


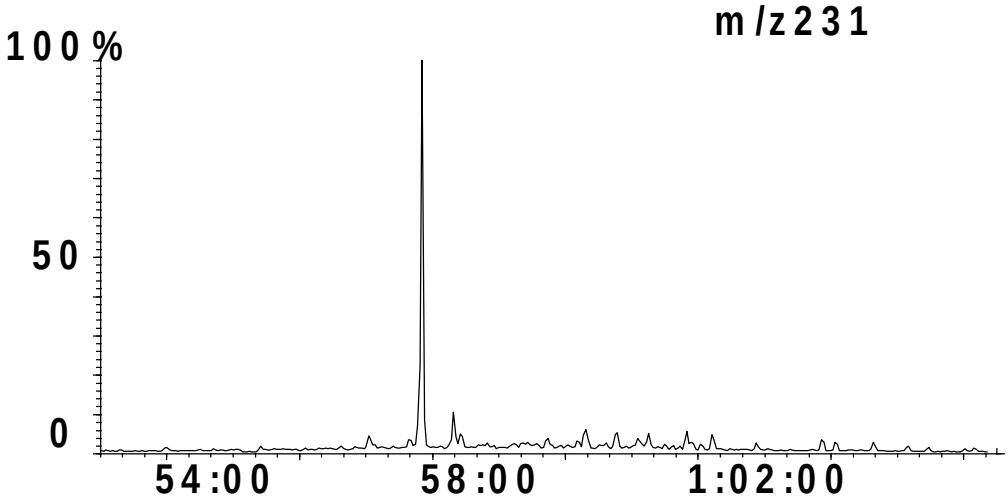




Country: **Australia**	Depth: **3663-3666m**	04-Jun-98
Basin: **Browse**	Age: **99.2** **(Ma)**	Sample ID: **9294**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **3798-3801m**
Age: **100.6** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9295**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**438**
S1:	**0.19**
S2:	**1.04**
S3:	**0.7**
TOC	**0.94**
HI:	**110.6**
OI:	**74.46**
PI:	**0.154**
PC:	**0.100**
S2/S3:	**1.49**

C15+ Composition

EOM ppm:	**687**
HC ppm:	**267**
mgHC/gTOC	**28.4**
% Sat:	**9.5**
% Aro:	**18.5**
% NSO:	**72.0**
% Asph:	**0.0**
Sats/Aro	**0.52**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

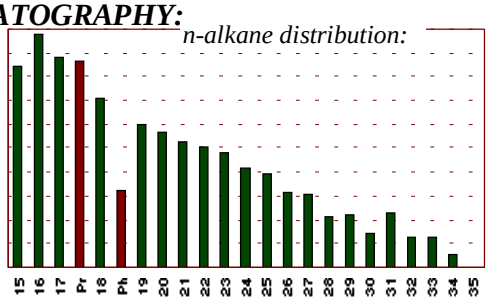
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

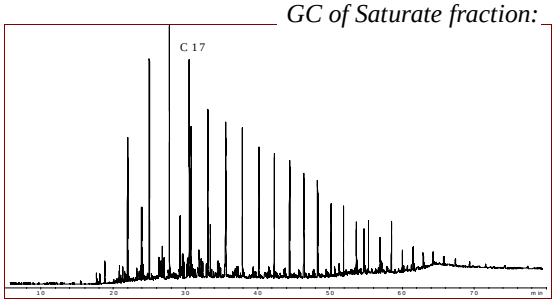
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.68**
Pr/n-C17:	**0.98**
Ph/n-C18:	**0.46**
n-C27/n-C17:	**0.34**
CPI 1:	**1.10**

n-alkane distribution:



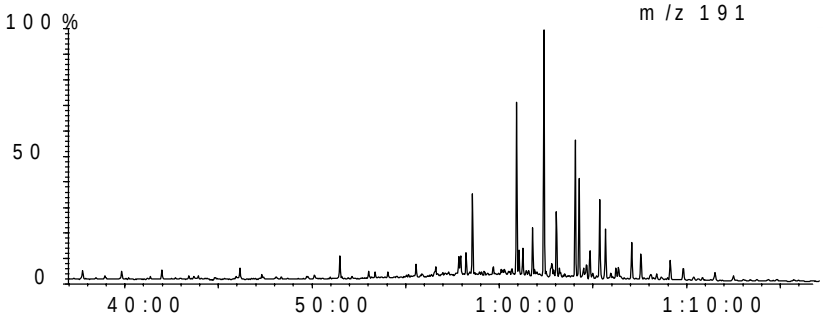
GC of Saturate fraction:



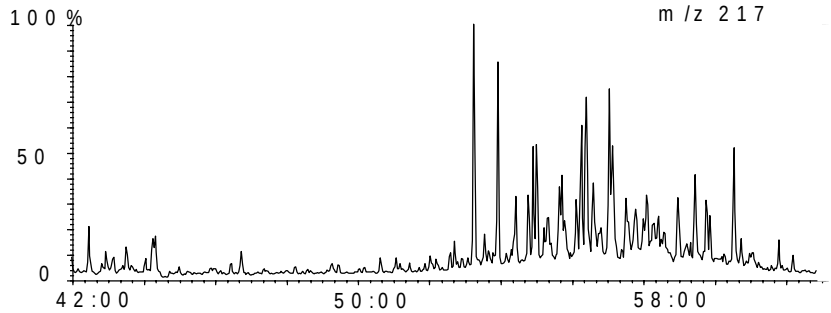
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.76**
C22/C21=	**0.32**
C24/C23=	**0.40**
C26/C25=	**0.80**
Tet/C23=	**2.06**
C27T/C27=	**0.00**
C28/H=	**0.02**
C29/H=	**0.70**
C30X/H=	**0.11**
Ol/H=	**0.00**
C31R/H=	**0.40**
GA/C31R=	**0.12**
C35S/C34S=	**0.41**
Ster/Terp=	**0.76**
Rearr/Reg=	**1.55**
%C27=	**48.90**
%C28=	**16.33**
%C29=	**34.77**
C29 20S/R=	**0.70**
Ts/Tm=	**0.22**
C29D/H=	**0.14**
DM/H=	**0.00**

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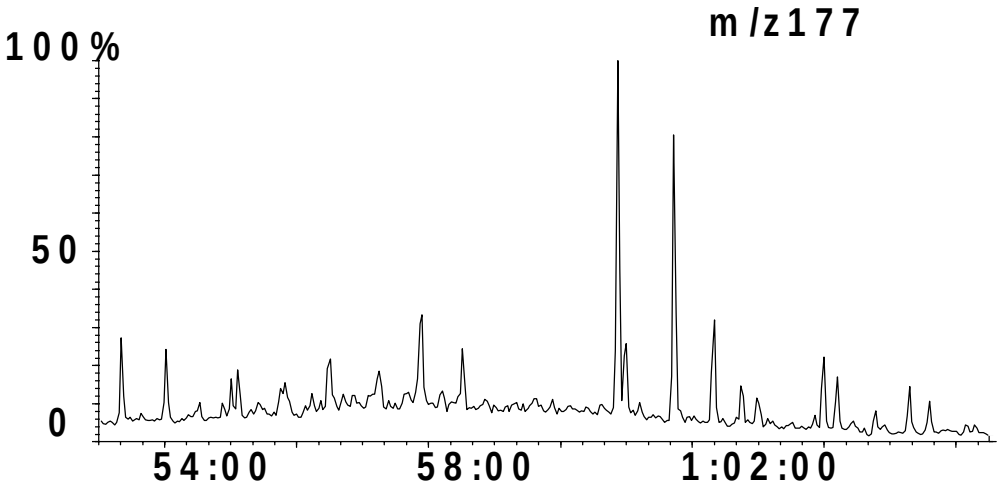
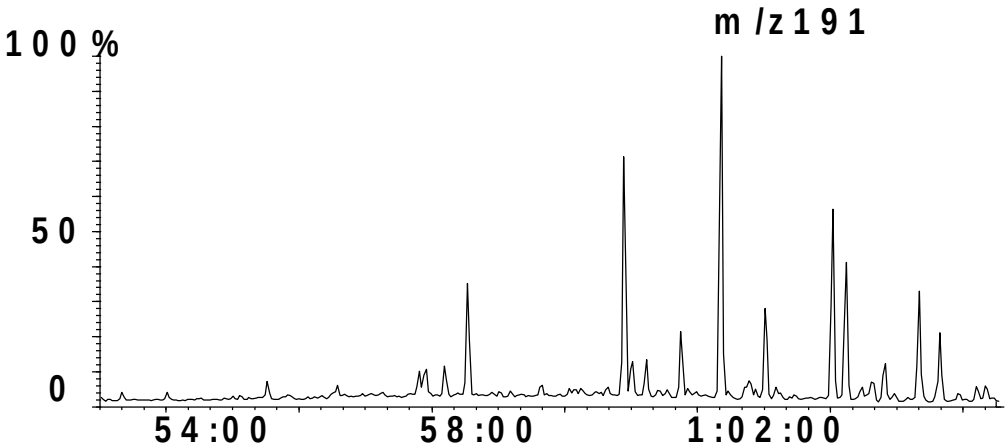
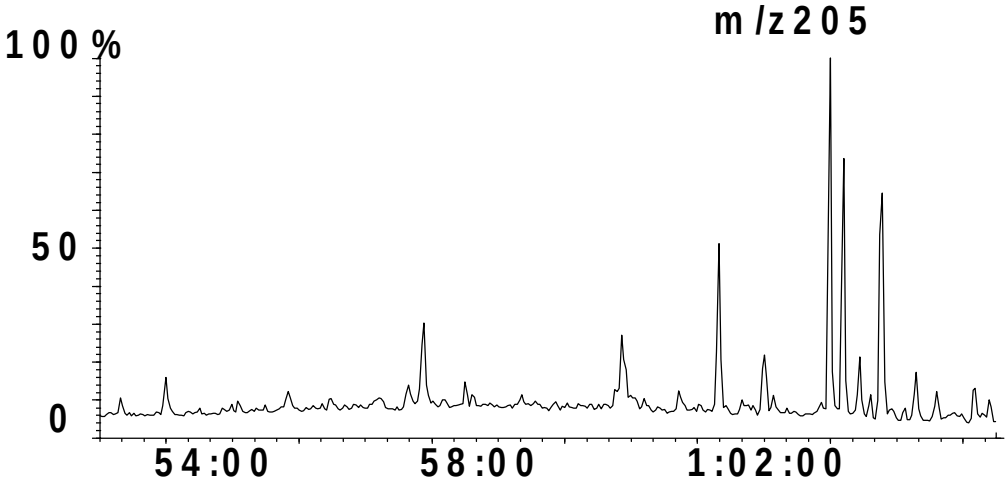
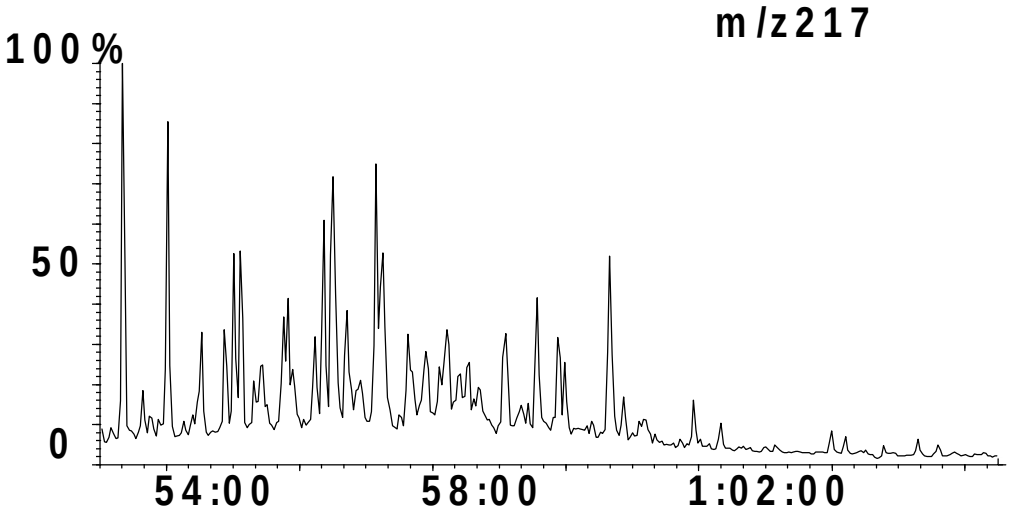
Country: **Australia**	Depth: **3798-3801m**	04-Jun-98
Basin: **Browse**	Age: **100.6** **(Ma)**	Sample ID: **9295**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

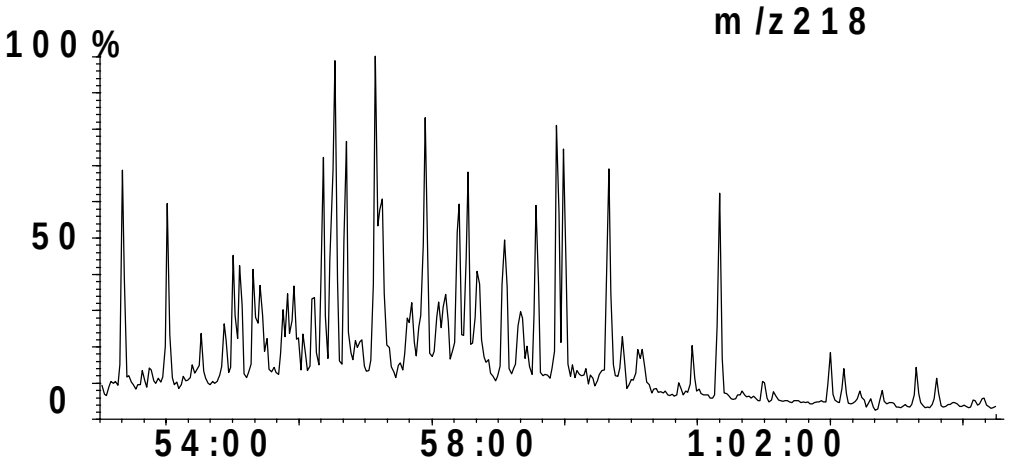


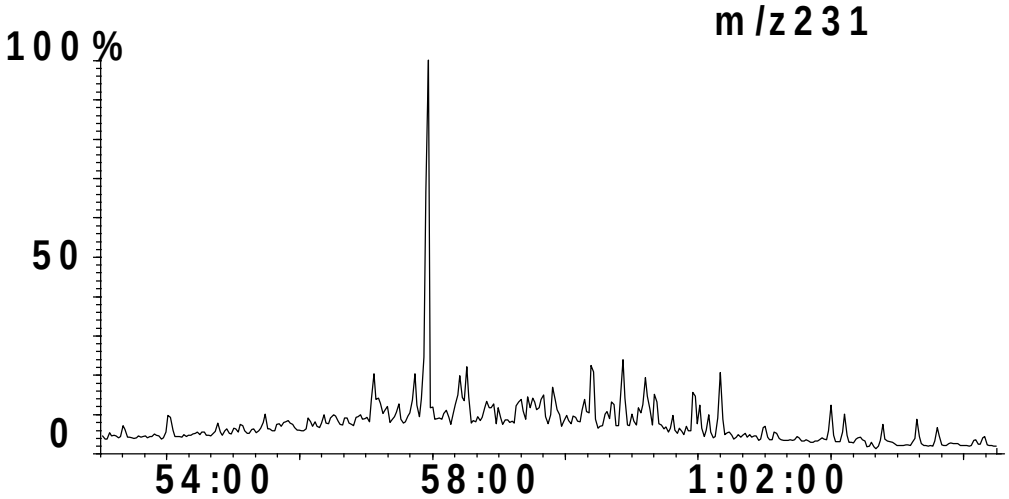




Country: **Australia**	Depth: **3798-3801m**	04-Jun-98
Basin: **Browse**	Age: **100.6** **(Ma)**	Sample ID: **9295**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3888-3891m**		04-Jun-98
Basin:	**Browse**	Age:	**101.1**	**(Ma)**	Sample ID: **9296**
Well:	**Kalyptea 1/ST1**	Formation:			Lat: **-13.033205**
Test:					Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**439**
S1:	**0.17**
S2:	**0.92**
S3:	**0.67**
TOC	**0.98**
HI:	**93.87**
OI:	**68.36**
PI:	**0.155**
PC:	**0.089**
S2/S3:	**1.37**

C15+ Composition

EOM ppm:	**1502**
HC ppm:	**259**
mgHC/gTOC	**26.5**
% Sat:	**11.5**
% Aro:	**20.5**
% NSO:	**68.0**
% Asph:	**0.0**
Sats/Aro	**0.56**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

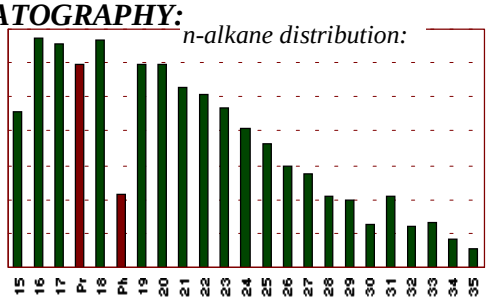
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

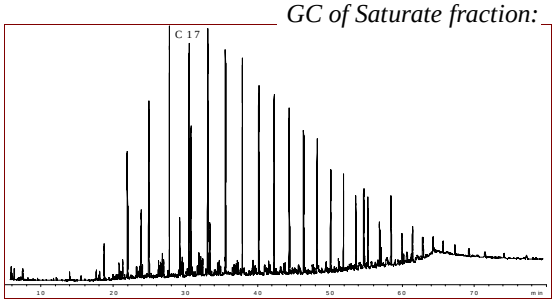
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.81**
Pr/n-C17:	**0.91**
Ph/n-C18:	**0.32**
n-C27/n-C17:	**0.42**
CPI 1:	**1.07**

n-alkane distribution:



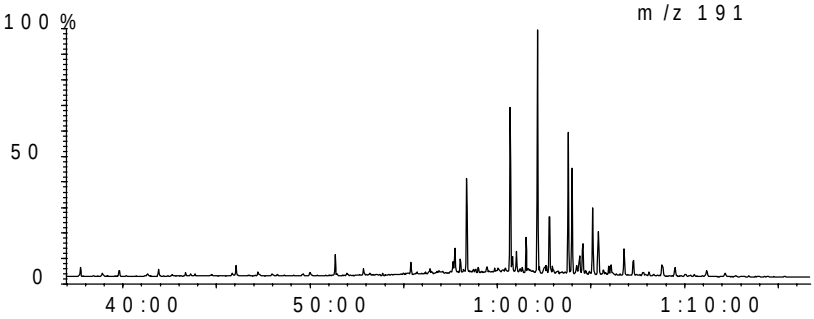
GC of Saturate fraction:



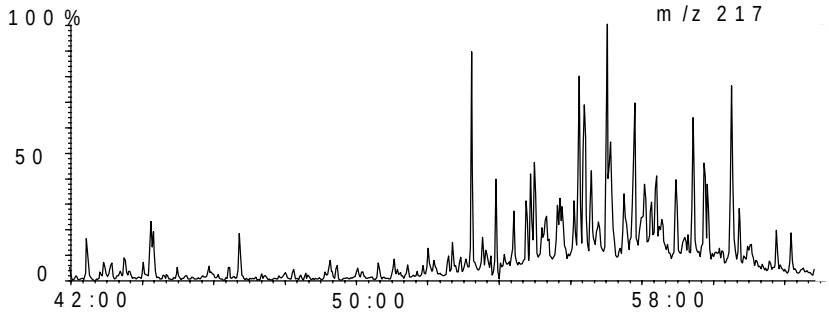
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.89**
C22/C21=	**0.33**
C24/C23=	**0.38**
C26/C25=	**0.82**
Tet/C23=	**2.08**
C27T/C27=	**0.00**
C28/H=	**0.01**
C29/H=	**0.68**
C30X/H=	**0.08**
Ol/H=	**0.00**
C31R/H=	**0.43**
GA/C31R=	**0.17**
C35S/C34S=	**0.53**
Ster/Terp=	**0.35**
Rearr/Reg=	**1.00**
%C27=	**48.00**
%C28=	**14.52**
%C29=	**37.48**
C29 20S/R=	**0.77**
Ts/Tm=	**0.26**
C29D/H=	**0.09**
DM/H=	**0.00**

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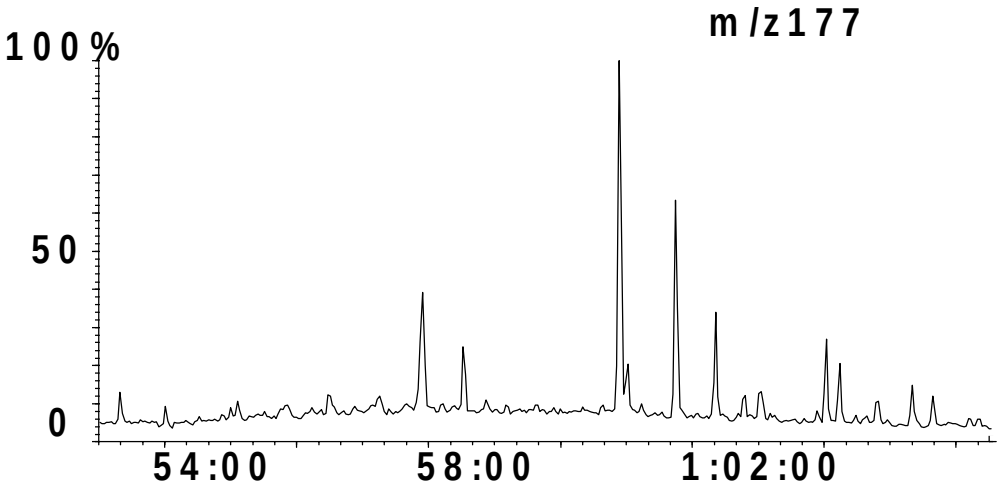
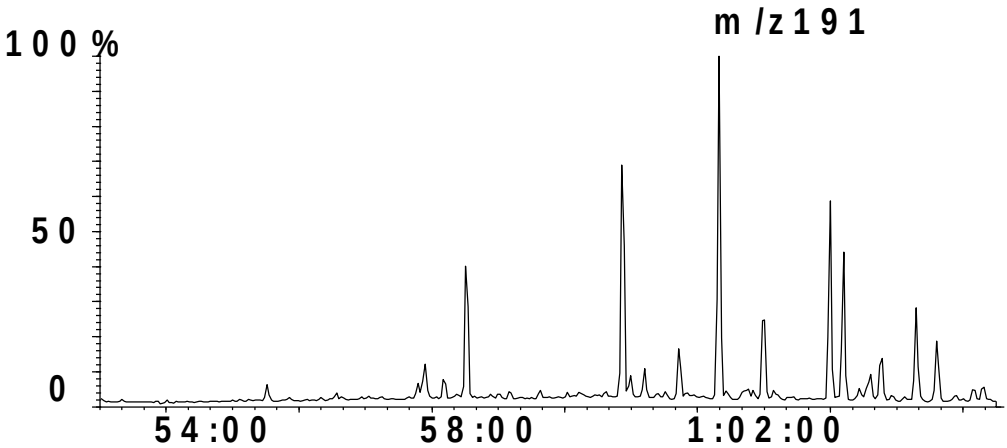
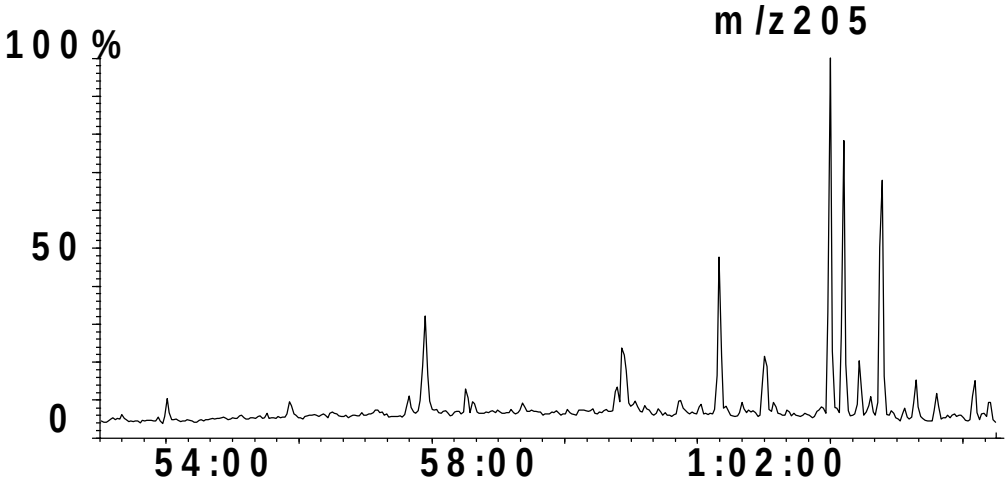
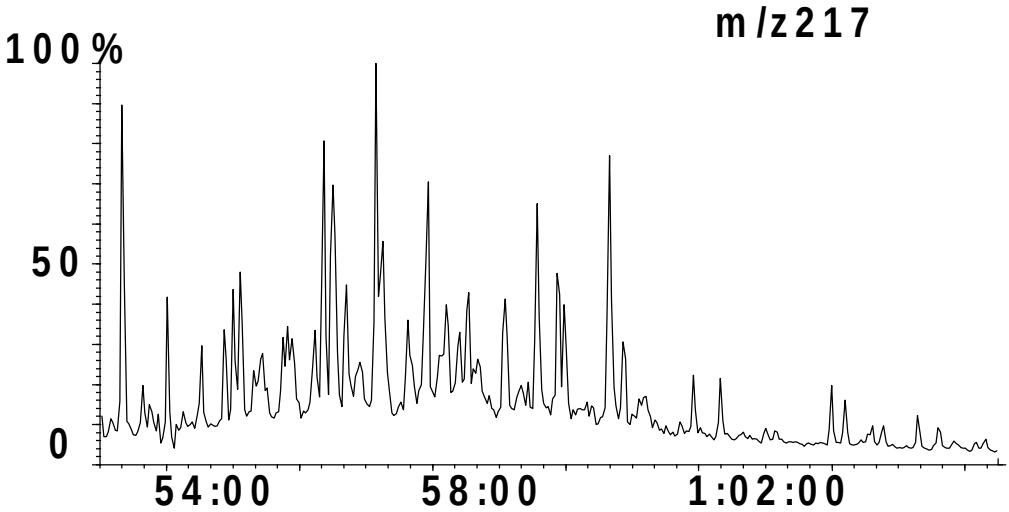
Country: **Australia**	Depth: **3888-3891m**	04-Jun-98
Basin: **Browse**	Age: **101.1** **(Ma)**	Sample ID: **9296**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

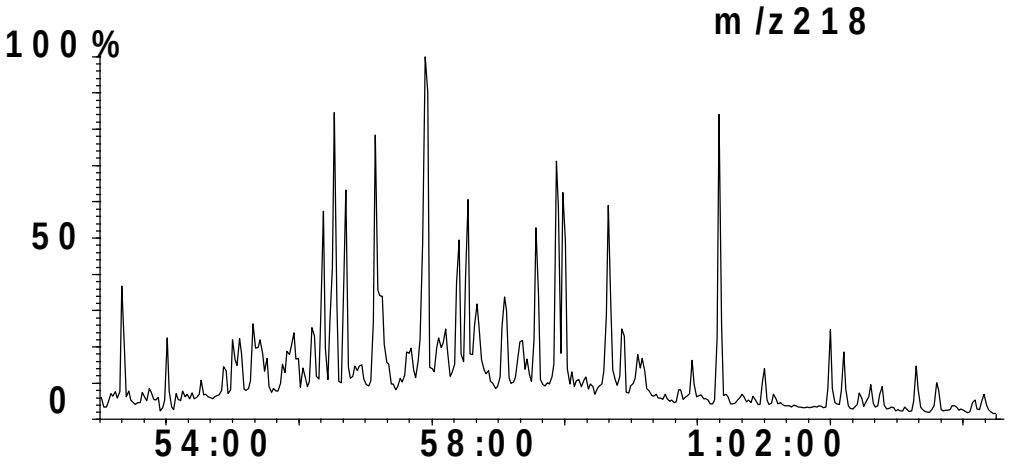


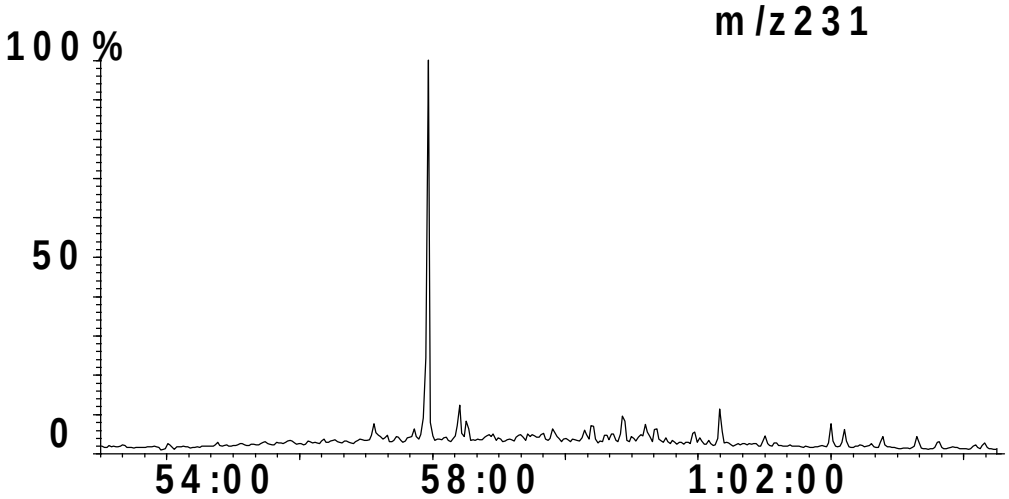




Country: **Australia**	Depth: **3888-3891m**	04-Jun-98
Basin: **Browse**	Age: **101.1** **(Ma)**	Sample ID: **9296**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **3954-3960m**
Age: **101.4** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9297**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**444**
S1:	**0.05**
S2:	**0.07**
S3:	**3.64**
TOC	**0.35**
HI:	**20**
OI:	**1040**
PI:	**0.416**
PC:	**0.009**
S2/S3:	**0.02**

C15+ Composition

EOM ppm:	**1717**
HC ppm:	**23**
mgHC/gTOC	**6.7**
% Sat:	**1.8**
% Aro:	**0.9**
% NSO:	**97.3**
% Asph:	**0.0**
Sats/Aro	**2.00**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

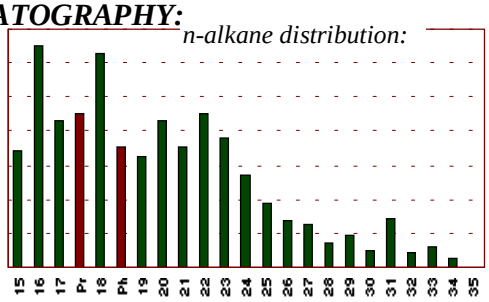
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

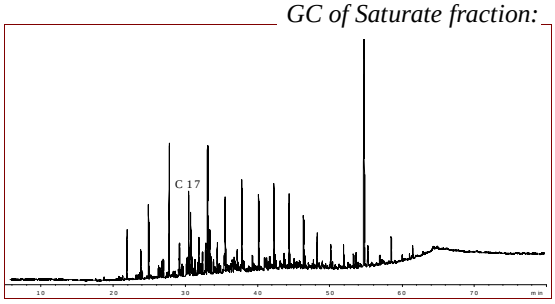
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.29**
Pr/n-C17:	**1.05**
Ph/n-C18:	**0.56**
n-C27/n-C17:	**0.30**
CPI 1:	**1.09**

n-alkane distribution:



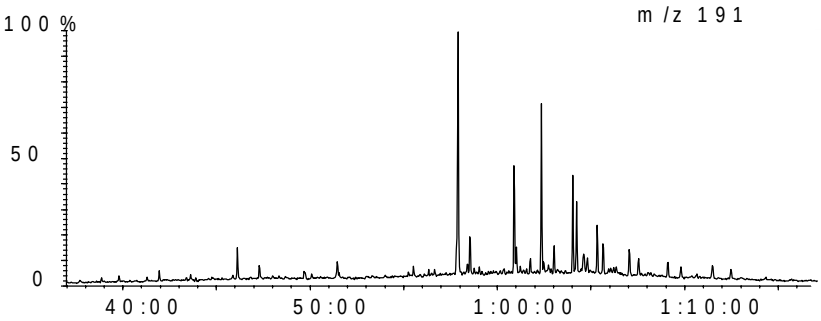
GC of Saturate fraction:



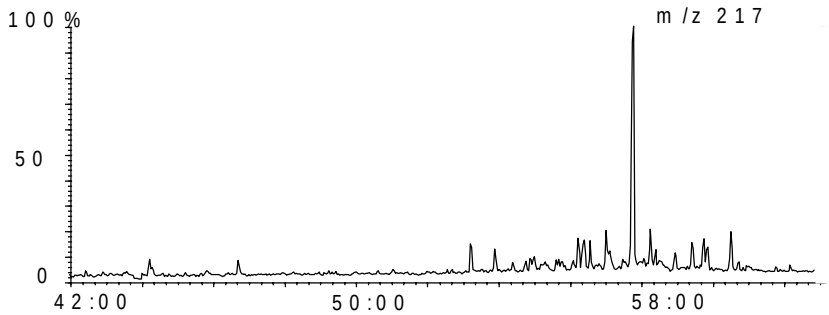
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.07**
C22/C21=	**0.25**
C24/C23=	**0.43**
C26/C25=	**0.84**
Tet/C23=	**0.53**
C27T/C27=	**0.00**
C28/H=	**0.01**
C29/H=	**0.64**
C30X/H=	**0.04**
Ol/H=	**0.02**
C31R/H=	**0.42**
GA/C31R=	**0.27**
C35S/C34S=	**0.93**
Ster/Terp=	**0.31**
Rearr/Reg=	**0.82**
%C27=	**41.21**
%C28=	**15.56**
%C29=	**43.23**
C29 20S/R=	**0.66**
Ts/Tm=	**6.62**
C29D/H=	**0.25**
DM/H=	**0.00**

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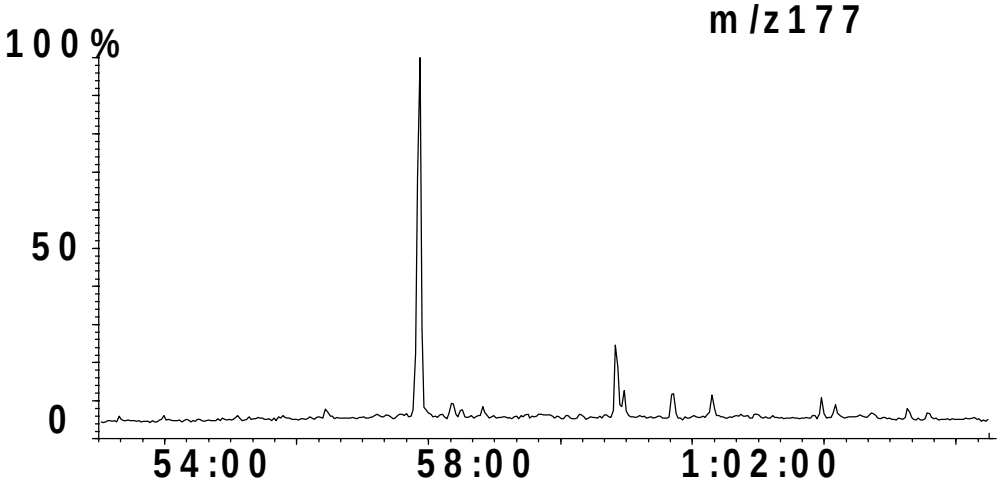
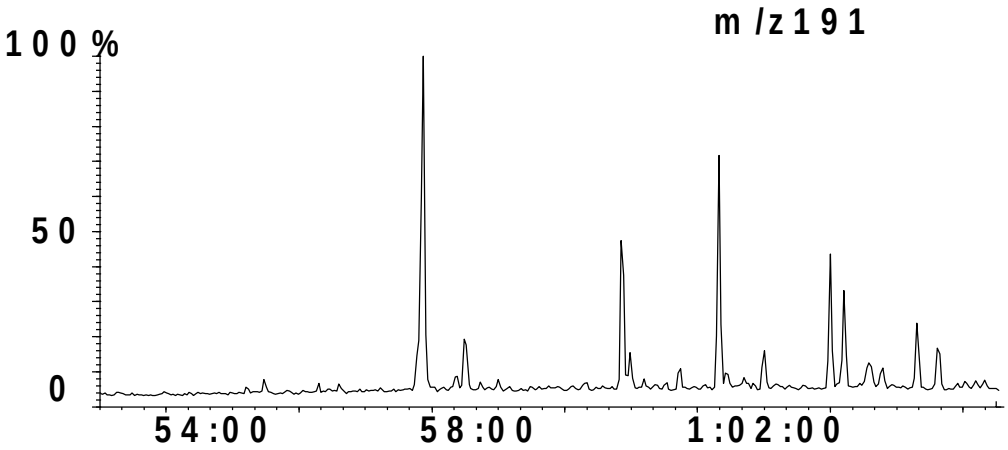
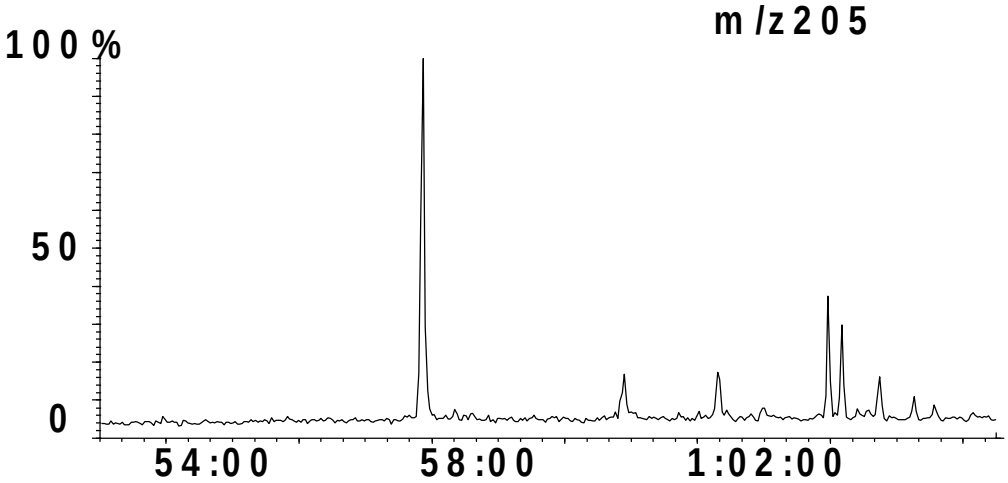
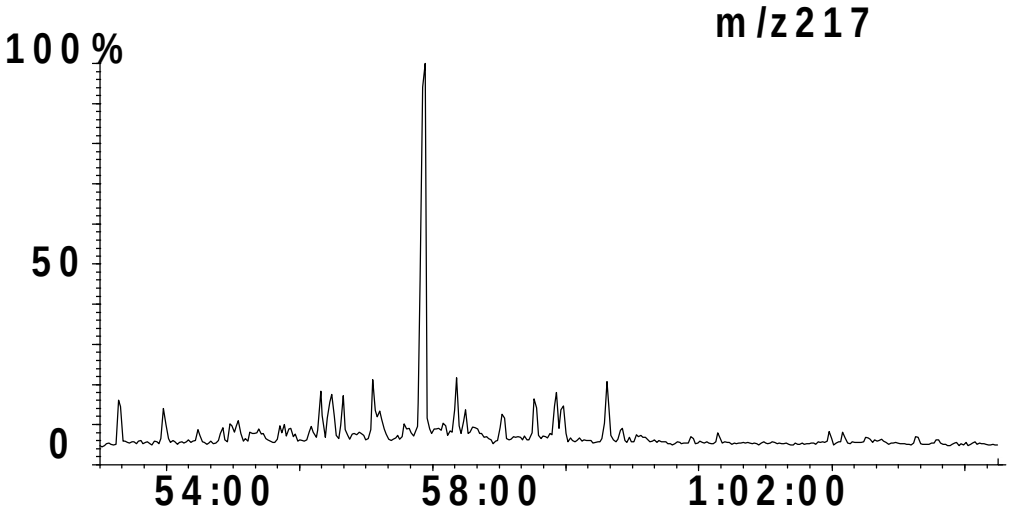
Country: **Australia**	Depth: **3954-3960m**	04-Jun-98
Basin: **Browse**	Age: **101.4** **(Ma)**	Sample ID: **9297**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

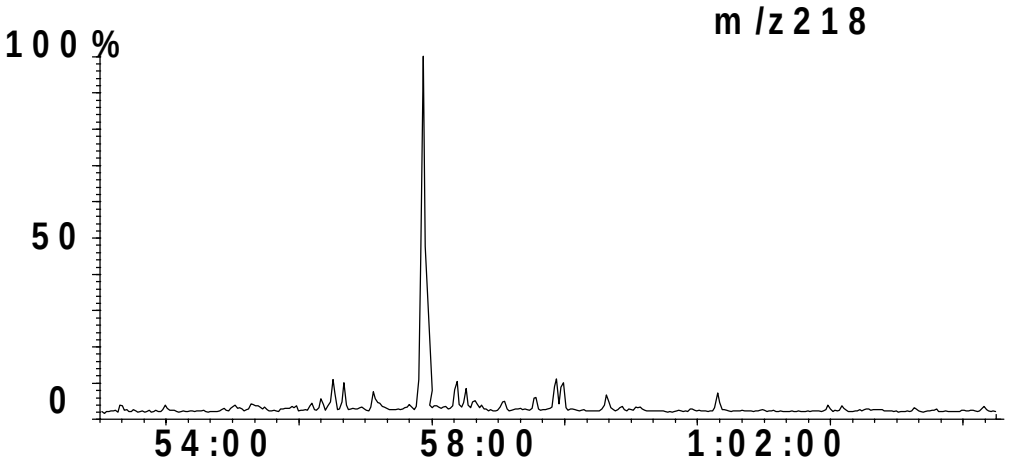


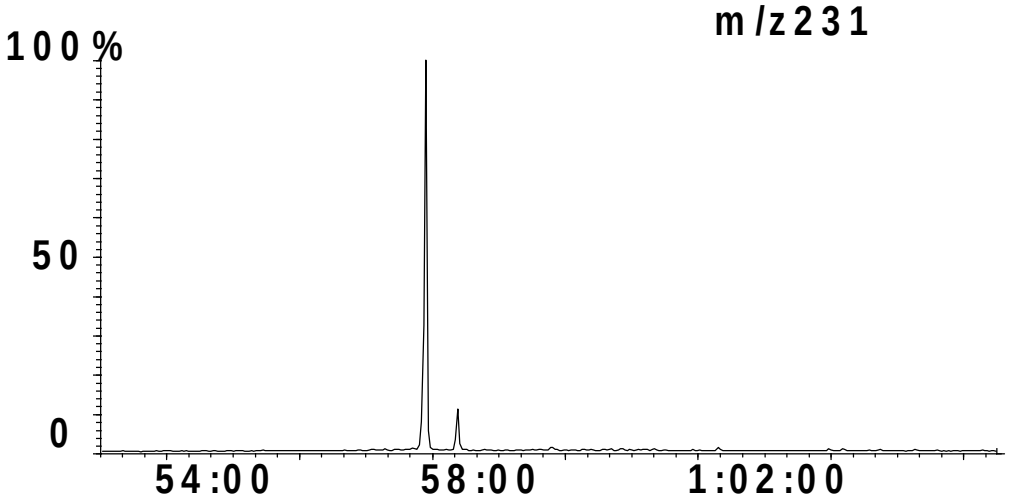




Country: **Australia**	Depth: **3954-3960m**	04-Jun-98
Basin: **Browse**	Age: **101.4** **(Ma)**	Sample ID: **9297**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4092-4095m**
Age: **118** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9298**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**438**
S1:	**0.33**
S2:	**1.06**
S3:	**2**
TOC	**0.97**
HI:	**109.2**
OI:	**206.1**
PI:	**0.237**
PC:	**0.113**
S2/S3:	**0.53**

C15+ Composition

EOM ppm:	**1417**
HC ppm:	**502**
mgHC/gTOC	**51.8**
% Sat:	**20.5**
% Aro:	**18.2**
% NSO:	**61.4**
% Asph:	**0.0**
Sats/Aro	**1.13**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

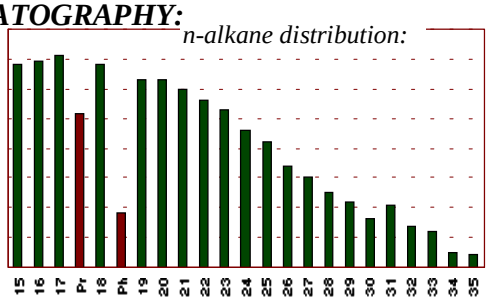
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

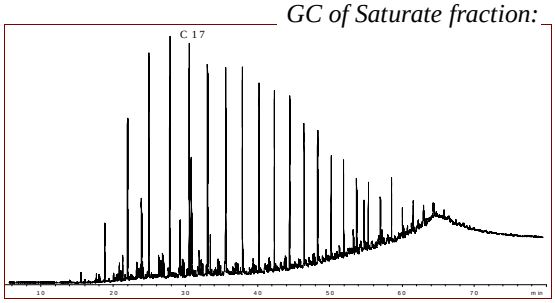
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.85**
Pr/n-C17:	**0.72**
Ph/n-C18:	**0.27**
n-C27/n-C17:	**0.43**
CPI 1:	**1.04**

n-alkane distribution:



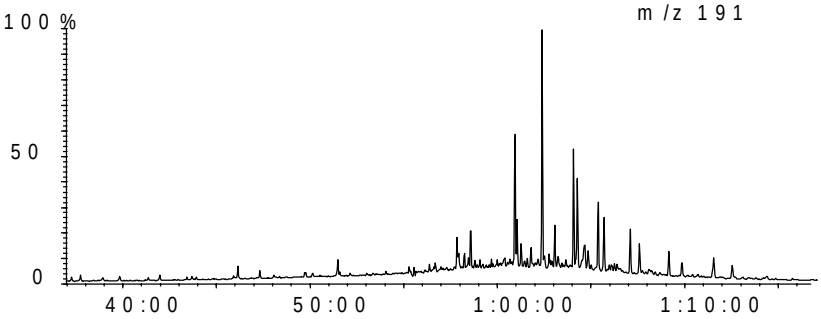
GC of Saturate fraction:



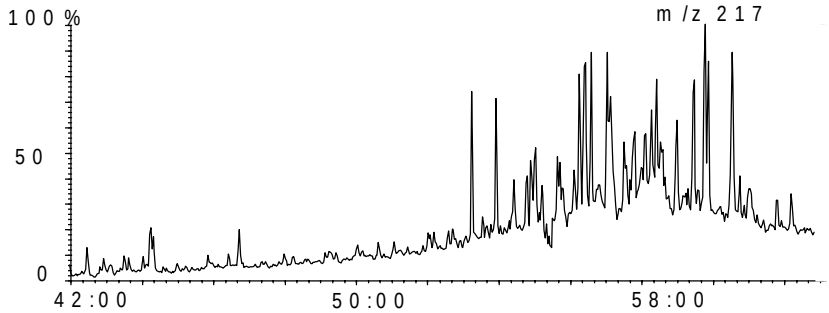
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.46**
C22/C21=	**0.47**
C24/C23=	**0.58**
C26/C25=	**0.93**
Tet/C23=	**1.27**
C27T/C27=	**0.07**
C28/H=	**0.01**
C29/H=	**0.56**
C30X/H=	**0.09**
Ol/H=	**0.02**
C31R/H=	**0.38**
GA/C31R=	**0.25**
C35S/C34S=	**0.86**
Ster/Terp=	**0.39**
Rearr/Reg=	**1.07**
%C27=	**37.54**
%C28=	**20.00**
%C29=	**42.46**
C29 20S/R=	**0.76**
Ts/Tm=	**0.85**
C29D/H=	**0.35**
DM/H=	**0.00**

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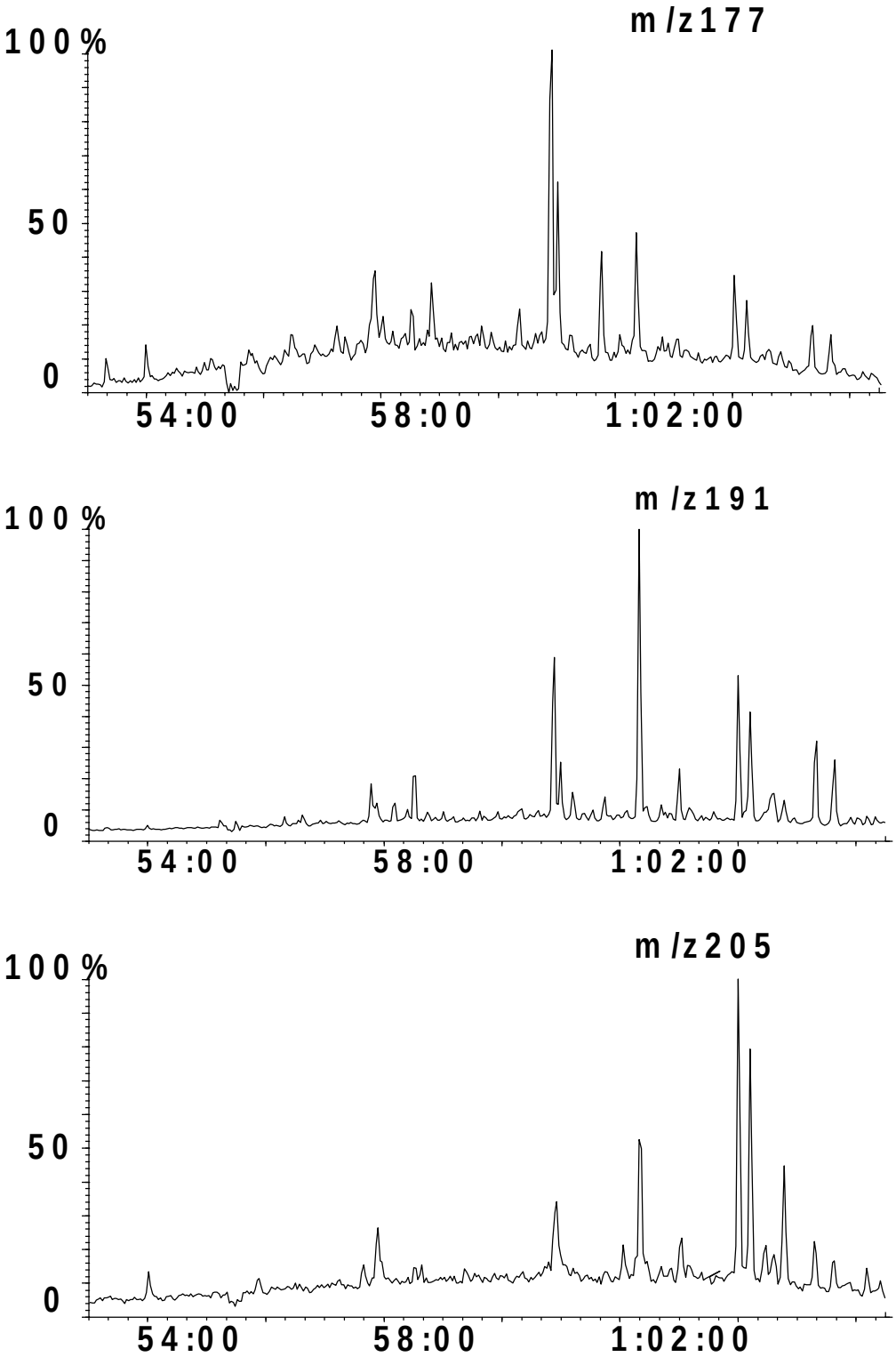
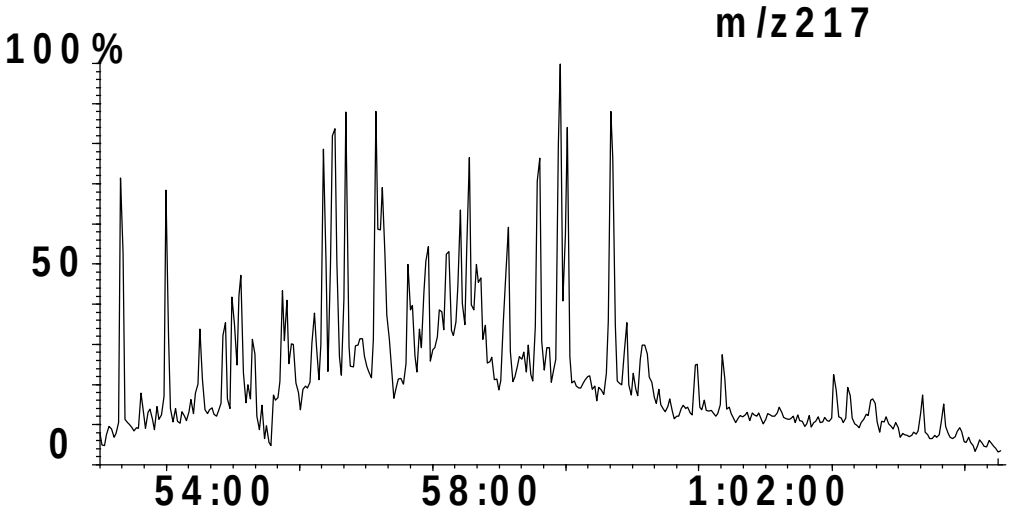
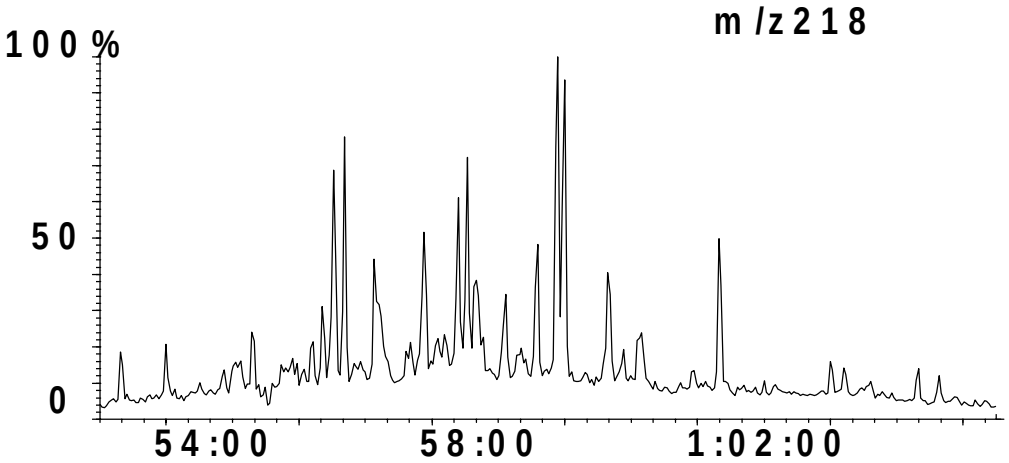
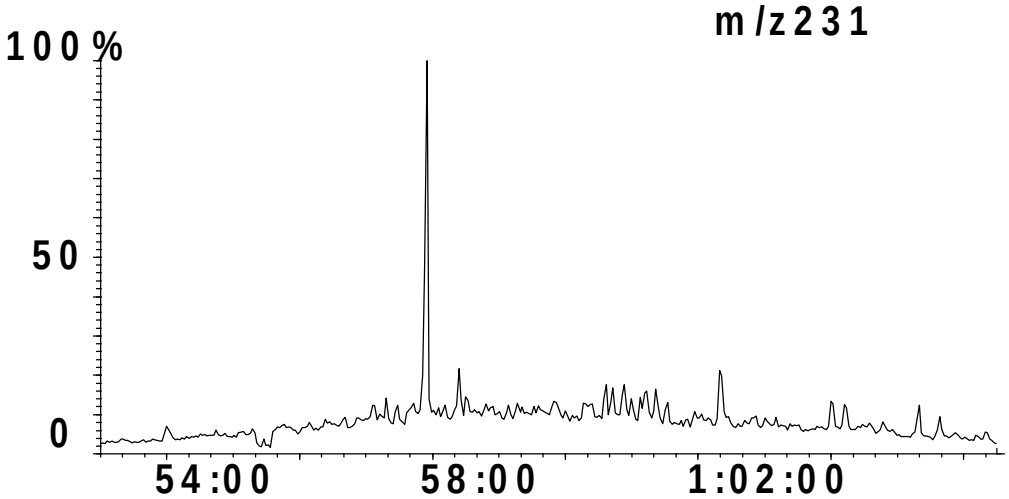
Country: **Australia**	Depth: **4092-4095m**	04-Jun-98
Basin: **Browse**	Age: **118** **(Ma)**	Sample ID: **9298**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**



Country: **Australia**	Depth: **4092-4095m**	04-Jun-98
Basin: **Browse**	Age: **118** **(Ma)**	Sample ID: **9298**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4160.15m**
Age: **125.7** **(Ma)**
Formation:

04-Jun-98
Sample ID: **9299**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**443**
S1:	**0.28**
S2:	**0.8**
S3:	**0**
TOC	**0.75**
HI:	**106.6**
OI:	**0**
PI:	**0.259**
PC:	**0.088**
S2/S3:	

C15+ Composition

EOM ppm:	**1711**
HC ppm:	**467**
mgHC/gTOC	**62.3**
% Sat:	**14.3**
% Aro:	**37.8**
% NSO:	**47.9**
% Asph:	**0.0**
Sats/Aro	**0.38**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

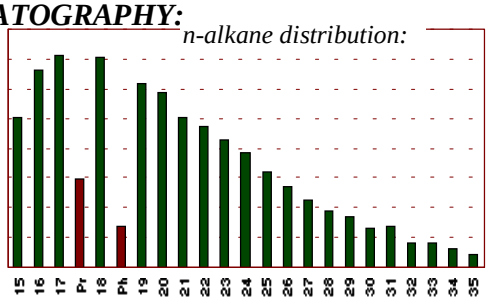
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

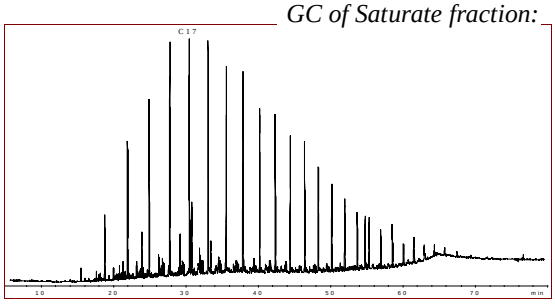
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.12**
Pr/n-C17:	**0.42**
Ph/n-C18:	**0.20**
n-C27/n-C17:	**0.32**
CPI 1:	**1.01**

n-alkane distribution:



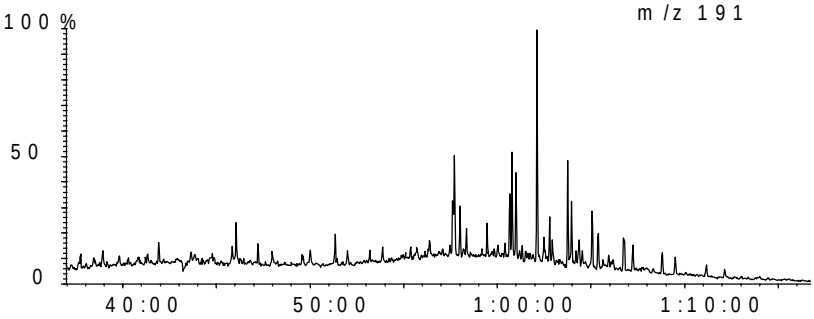
GC of Saturate fraction:



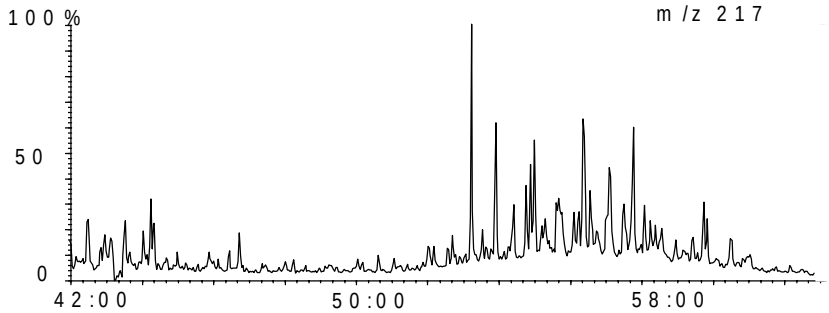
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes

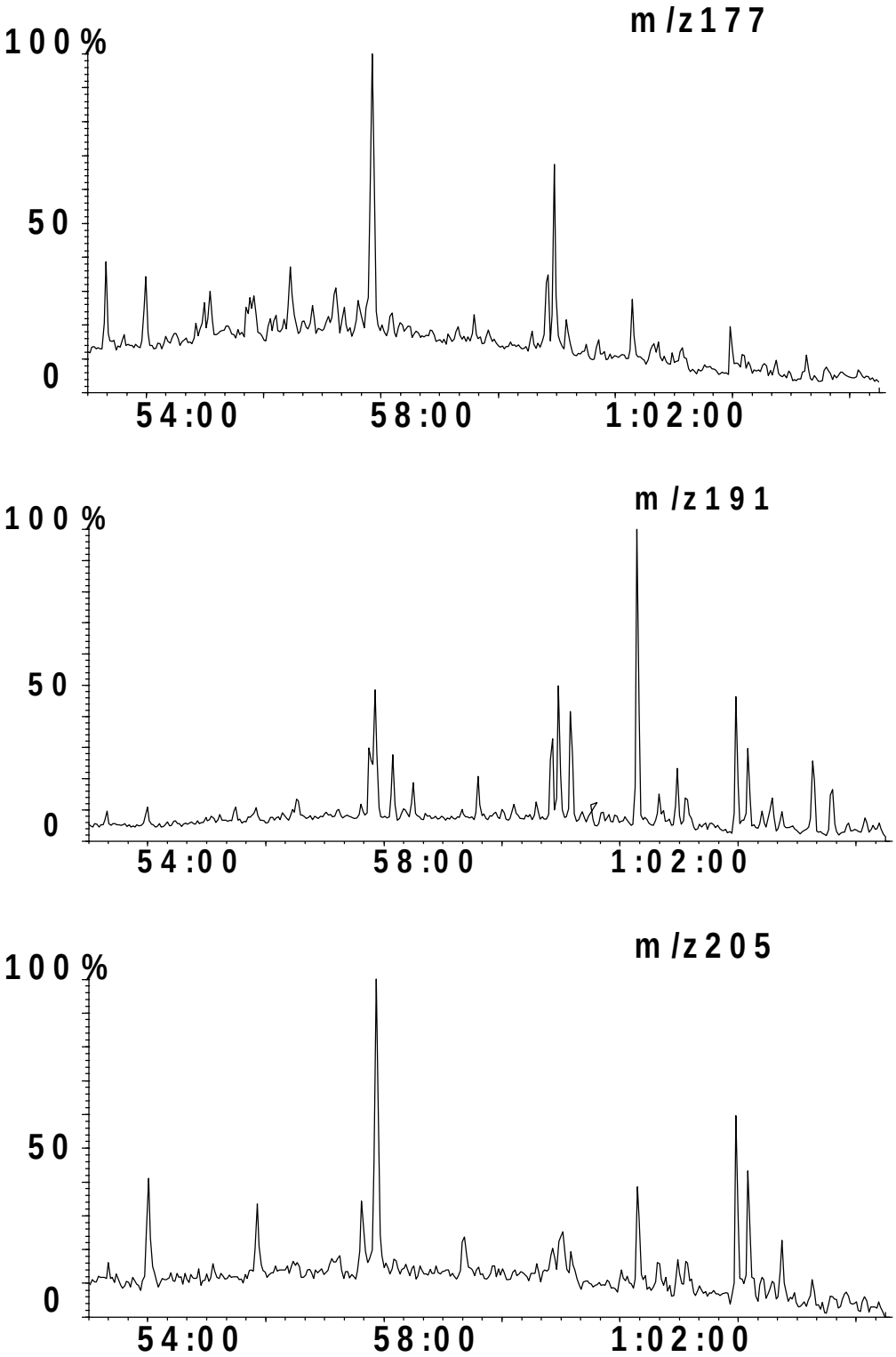


OilMod Ratios

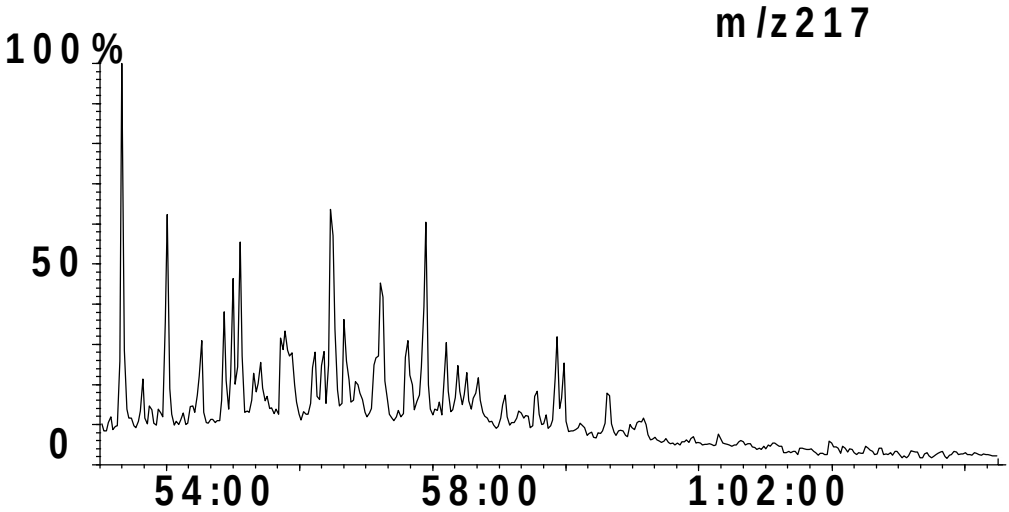
C19/C23=	**0.33**
C22/C21=	**0.35**
C24/C23=	**0.49**
C26/C25=	**0.50**
Tet/C23=	**0.74**
C27T/C27=	**0.00**
C28/H=	**0.05**
C29/H=	**0.27**
C30X/H=	**0.37**
Ol/H=	**0.01**
C31R/H=	**0.27**
GA/C31R=	**0.38**
C35S/C34S=	**0.60**
Ster/Terp=	**1.15**
Rearr/Reg=	**7.65**
%C27=	**48.08**
%C28=	**17.13**
%C29=	**34.79**
C29 20S/R=	**0.75**
Ts/Tm=	**2.04**
C29D/H=	**1.66**
DM/H=	**0.00**

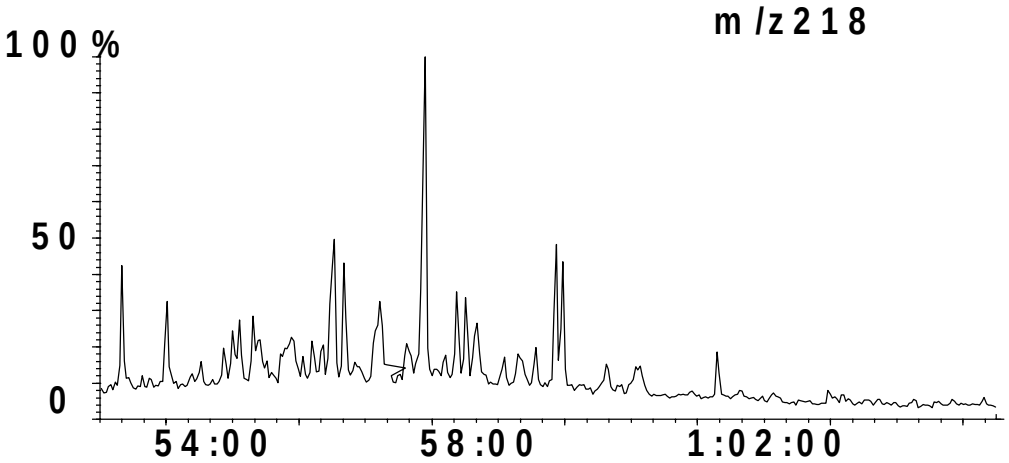
Australian Geological Survey Organisation GPO Box 378 Canberra ACT 2601 Australia Tel: 026-2499515 Fax: 026-2499983

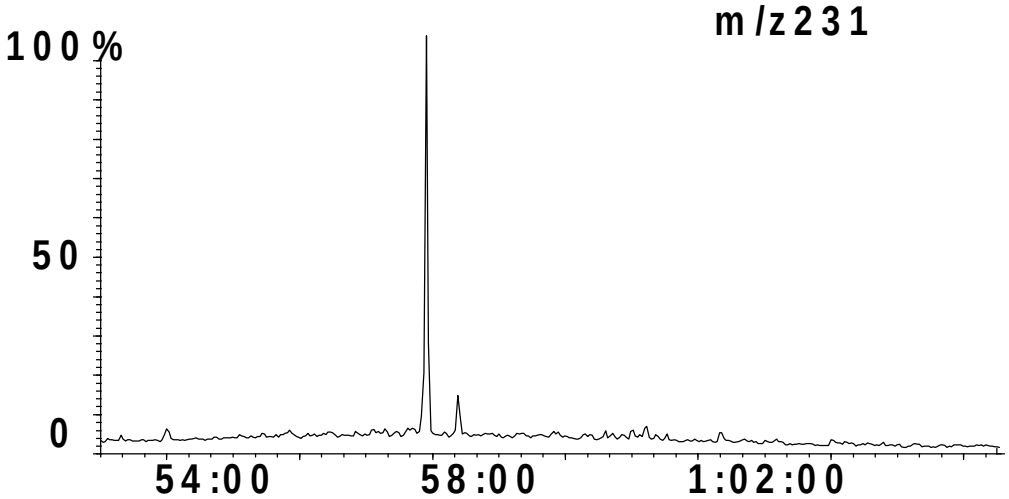
Country: **Australia**	Depth: **4160.15m**	04-Jun-98
Basin: **Browse**	Age: **125.7** **(Ma)**	Sample ID: **9299**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**



Country: **Australia**	Depth: **4160.15m**	04-Jun-98
Basin: **Browse**	Age: **125.7** **(Ma)**	Sample ID: **9299**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4239-4249m**
Age: **135** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9300**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**444**
S1:	**1.36**
S2:	**3.43**
S3:	**1.52**
TOC	**2.3**
HI:	**149.1**
OI:	**66.08**
PI:	**0.283**
PC:	**0.392**
S2/S3:	**2.26**

C15+ Composition

EOM ppm:	**3853**
HC ppm:	**1622**
mgHC/gTOC	**70.5**
% Sat:	**30.8**
% Aro:	**22.8**
% NSO:	**46.4**
% Asph:	**0.0**
Sats/Aro	**1.35**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

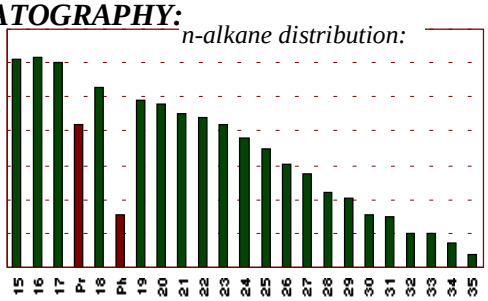
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

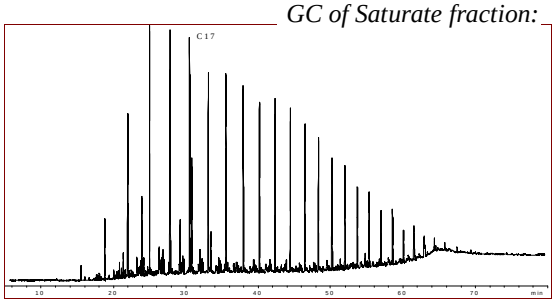
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.70**
Pr/n-C17:	**0.70**
Ph/n-C18:	**0.29**
n-C27/n-C17:	**0.45**
CPI 1:	**1.03**

n-alkane distribution:



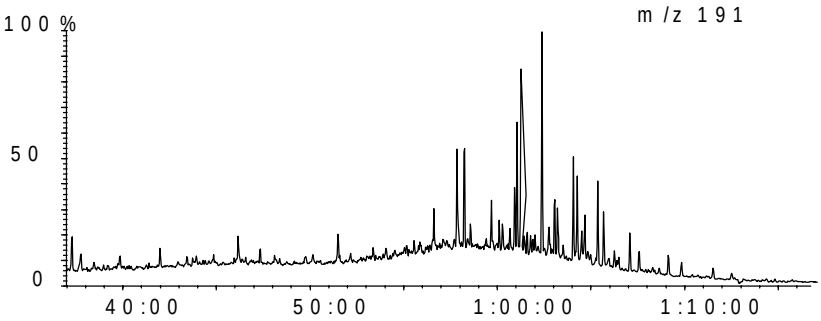
GC of Saturate fraction:



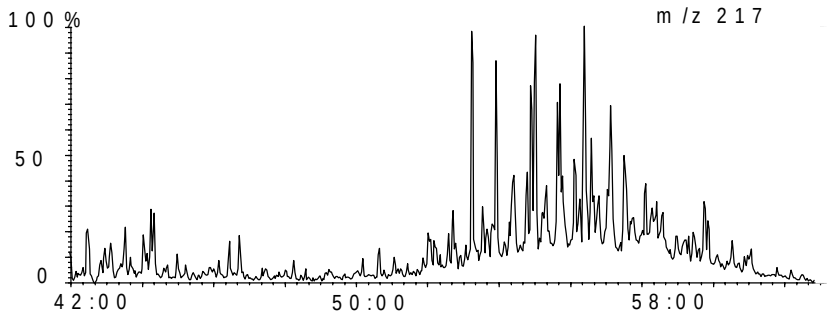
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.57**
C22/C21=	**0.48**
C24/C23=	**0.52**
C26/C25=	**0.99**
Tet/C23=	**0.98**
C27T/C27=	**0.00**
C28/H=	**0.11**
C29/H=	**0.28**
C30X/H=	**0.82**
Ol/H=	**0.02**
C31R/H=	**0.38**
GA/C31R=	**0.55**
C35S/C34S=	**0.54**
Ster/Terp=	**1.17**
Rearr/Reg=	**4.88**
%C27=	**62.27**
%C28=	**10.48**
%C29=	**27.24**
C29 20S/R=	**0.82**
Ts/Tm=	**4.70**
C29D/H=	**2.09**
DM/H=	**0.00**

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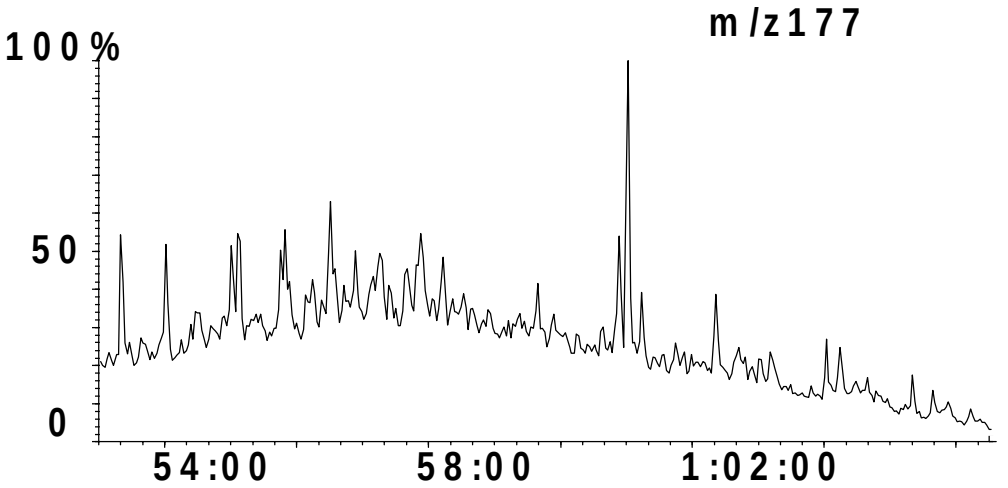
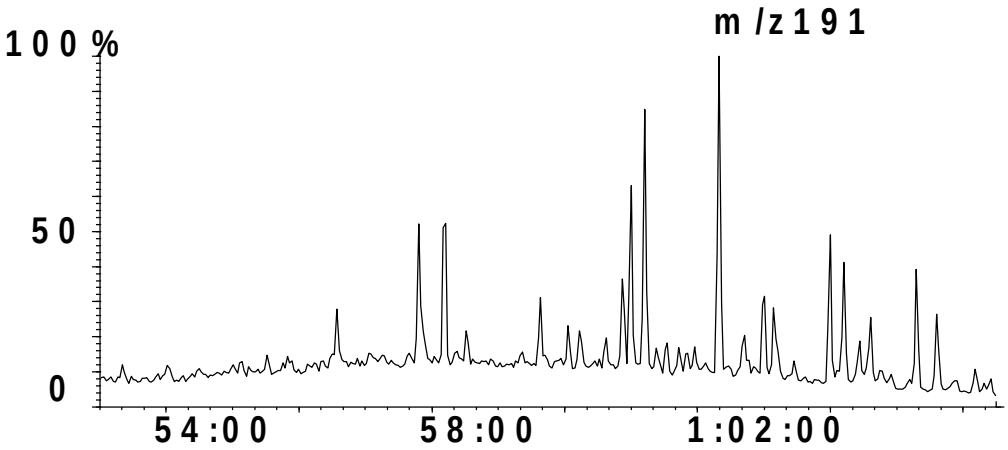
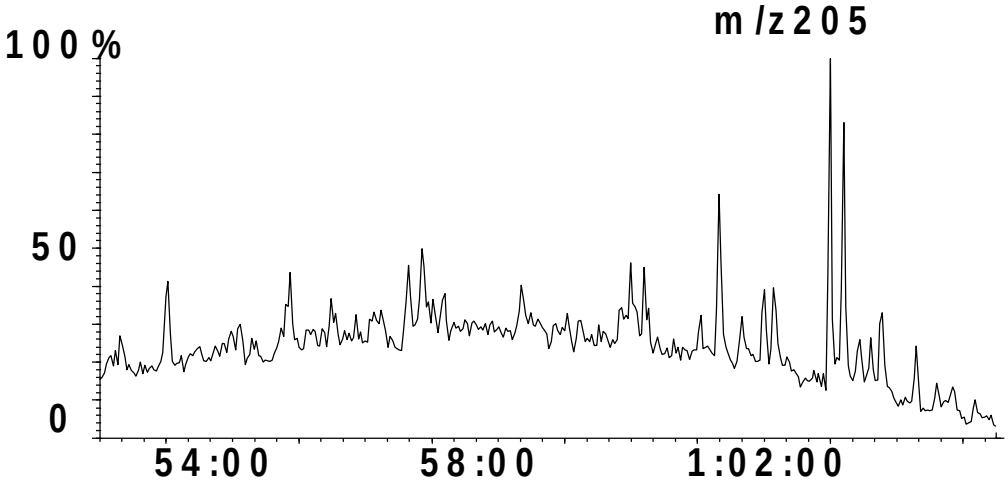
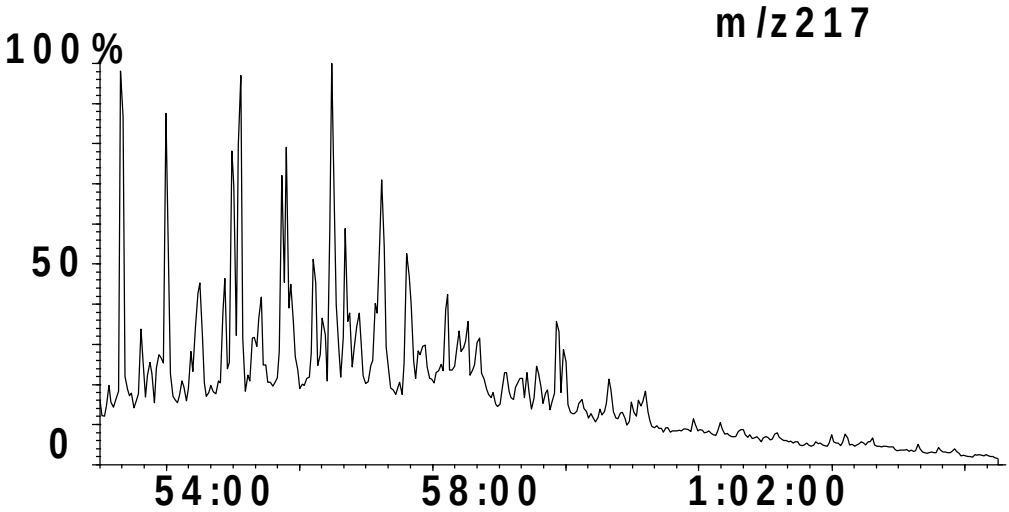
Country: **Australia**	Depth: **4239-4249m**	05-Jun-98
Basin: **Browse**	Age: **135** **(Ma)**	Sample ID: **9300**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

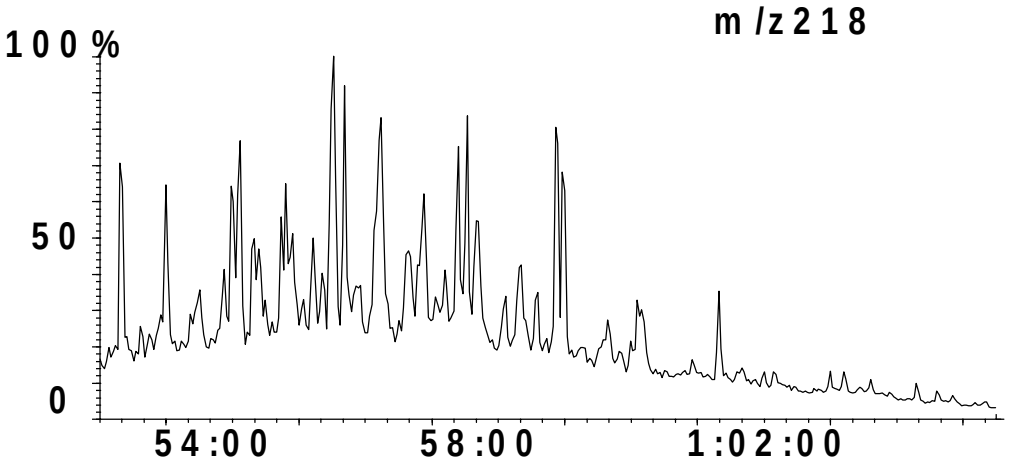


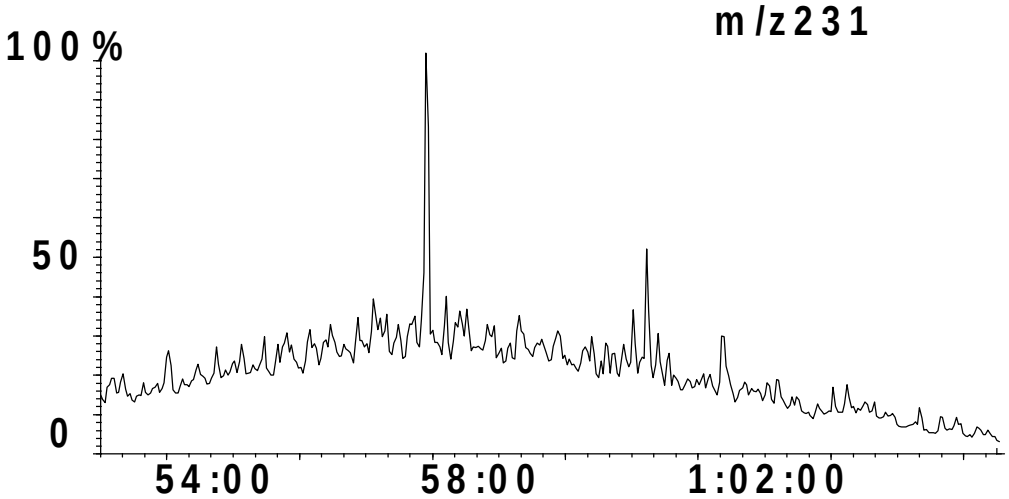




Country: **Australia**	Depth: **4239-4249m**	05-Jun-98
Basin: **Browse**	Age: **135** **(Ma)**	Sample ID: **9300**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4329-4335m**
Age: **135.2** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9301**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**441**
S1:	**0.87**
S2:	**2.03**
S3:	**2.23**
TOC	**1.58**
HI:	**128.4**
OI:	**141.1**
PI:	**0.3**
PC:	**0.237**
S2/S3:	**0.91**

C15+ Composition

EOM ppm:	**4259**
HC ppm:	**1399**
mgHC/gTOC	**88.6**
% Sat:	**32.2**
% Aro:	**13.6**
% NSO:	**54.3**
% Asph:	**0.0**
Sats/Aro	**2.37**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

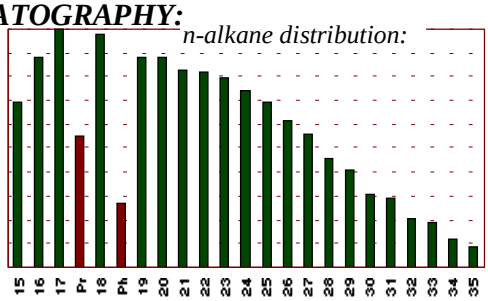
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

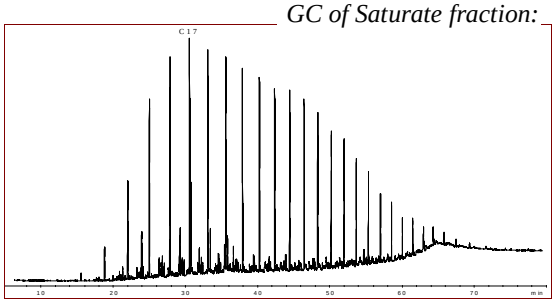
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.07**
Pr/n-C17:	**0.55**
Ph/n-C18:	**0.27**
n-C27/n-C17:	**0.56**
CPI 1:	**1.03**

n-alkane distribution:



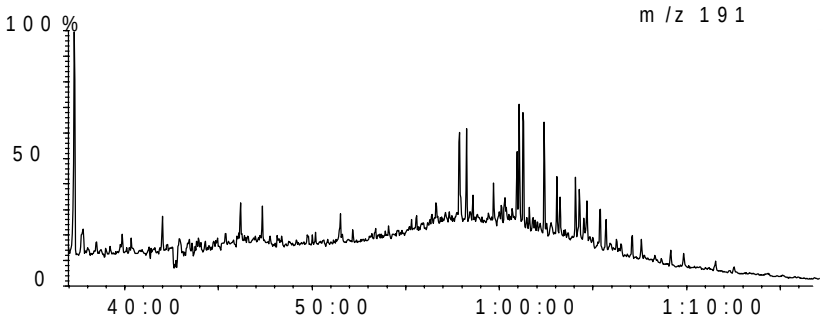
GC of Saturate fraction:



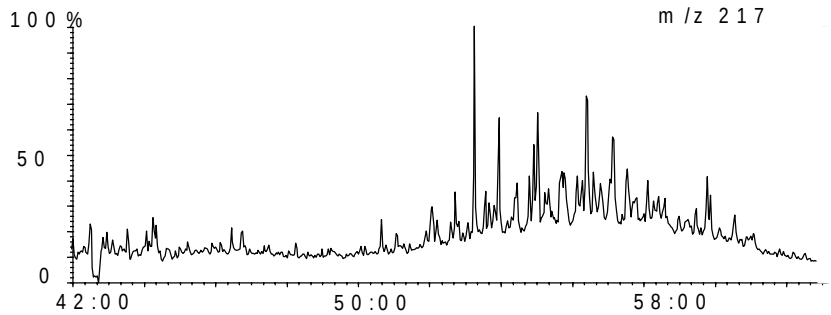
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.62**
C22/C21=	**0.26**
C24/C23=	**0.91**
C26/C25=	**0.85**
Tet/C23=	**0.64**
C27T/C27=	**0.00**
C28/H=	**0.22**
C29/H=	**0.69**
C30X/H=	**1.07**
Ol/H=	**0.03**
C31R/H=	**0.47**
GA/C31R=	**0.82**
C35S/C34S=	**0.79**
Ster/Terp=	**1.41**
Rearr/Reg=	**5.88**
%C27=	**53.29**
%C28=	**10.23**
%C29=	**36.48**
C29 20S/R=	**0.80**
Ts/Tm=	**3.83**
C29D/H=	**1.66**
DM/H=	**0.00**

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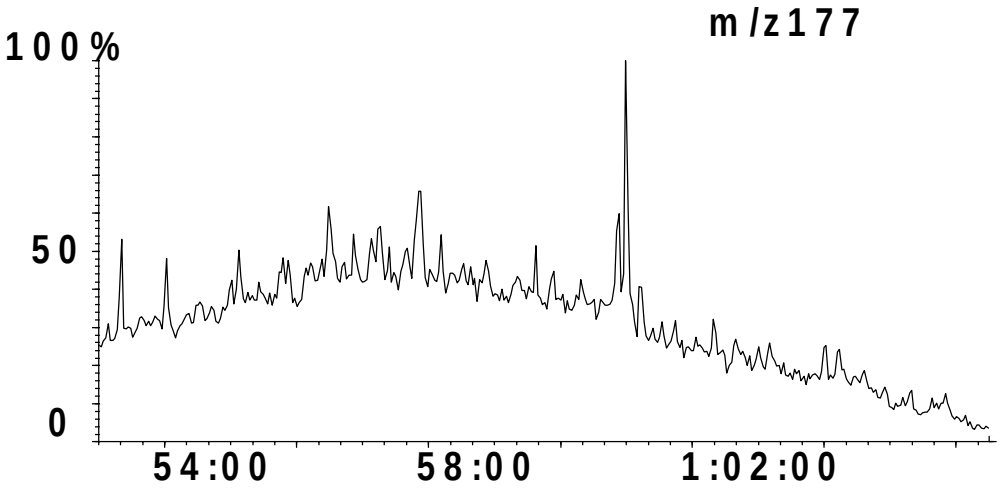
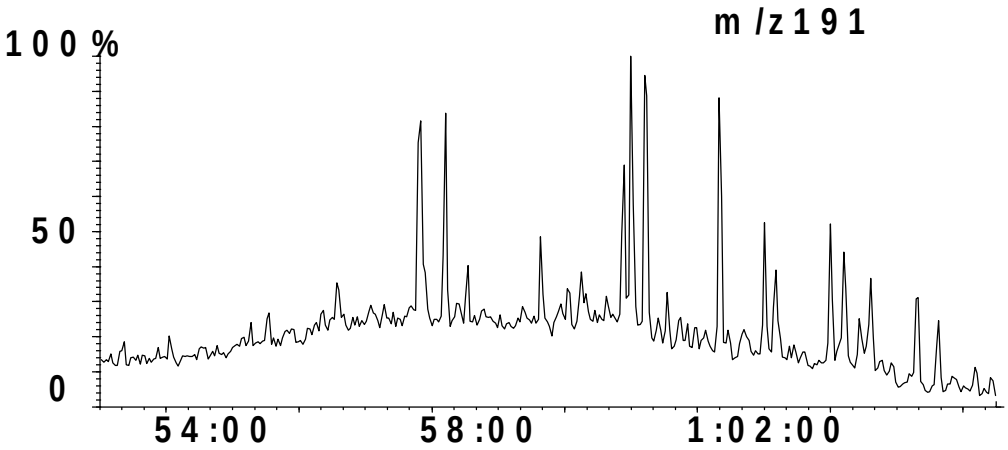
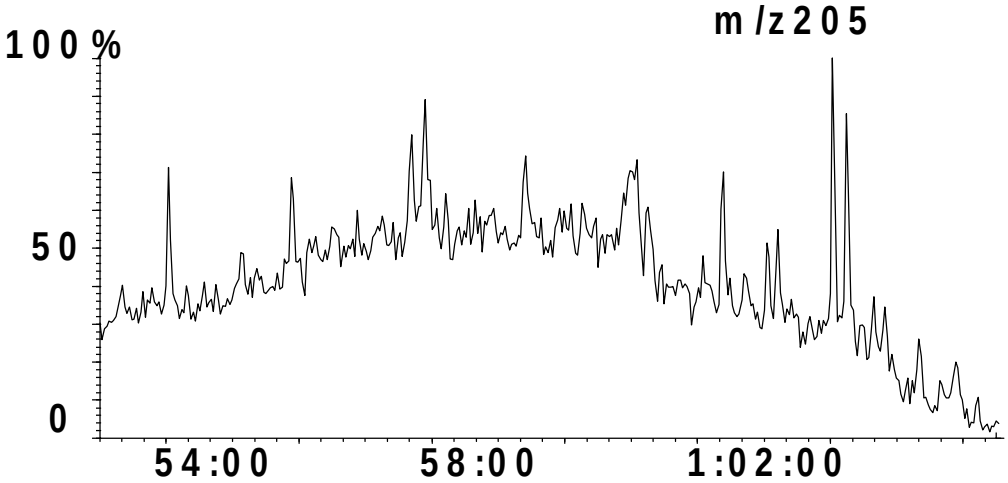
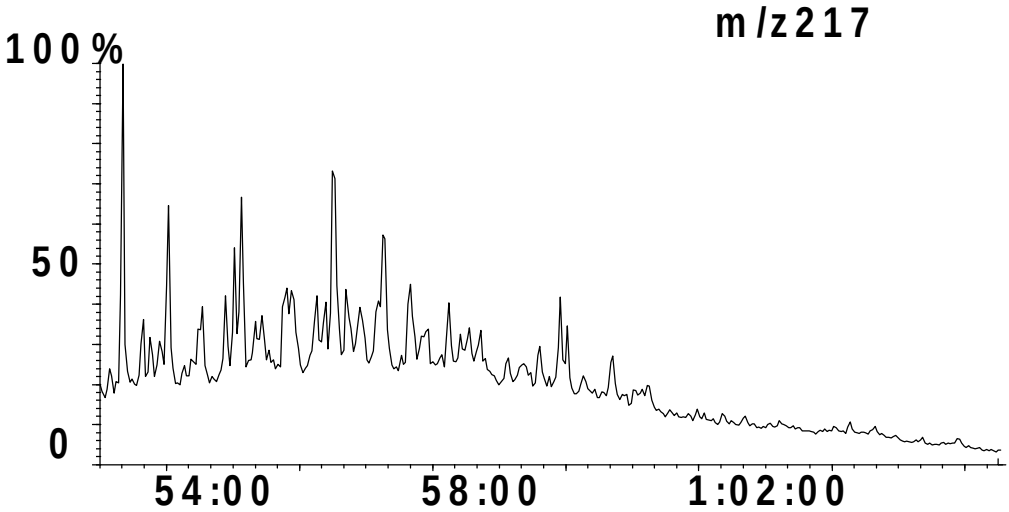
Country: **Australia**	Depth: **4329-4335m**	05-Jun-98
Basin: **Browse**	Age: **135.2** **(Ma)**	Sample ID: **9301**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

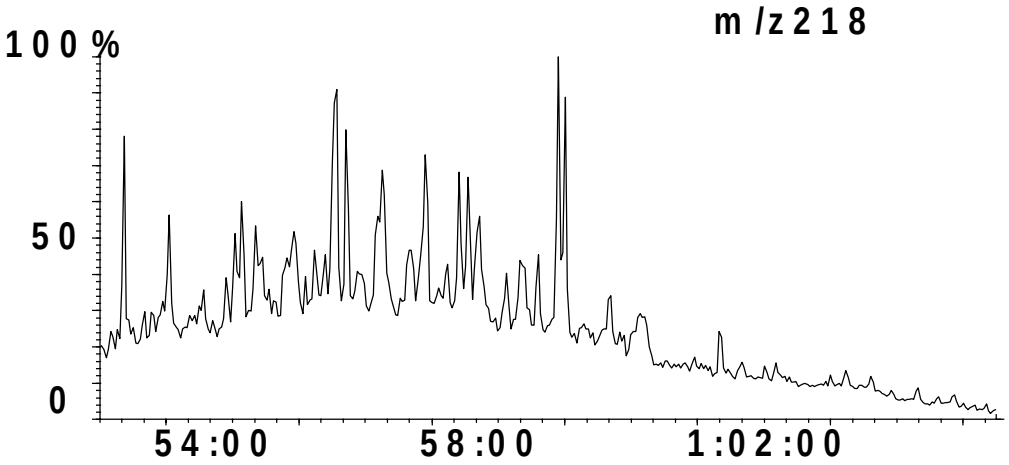


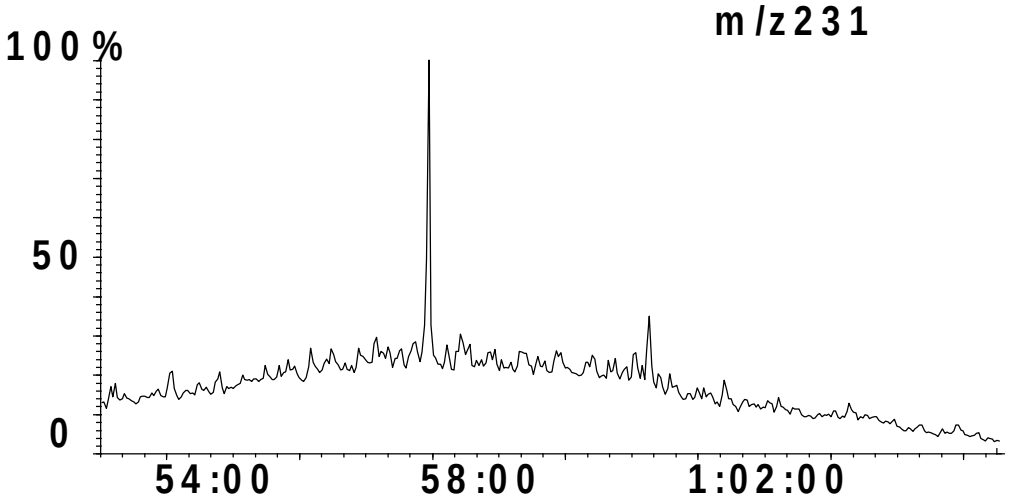




Country: **Australia**	Depth: **4329-4335m**	05-Jun-98
Basin: **Browse**	Age: **135.2** **(Ma)**	Sample ID: **9301**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3370-3380m**		05-Jun-98
Basin:	**Browse**	Age:	**107**	**(Ma)**	Sample ID: **9357**
Well:	**Barcoo 1**	Formation:			Lat: **-15.343611**
Test:					Long: **120.636722**

BULK PROPERTIES:

Rock Eval:

Tmax	**429**
S1:	**0.64**
S2:	**18.78**
S3:	**0.21**
TOC	**8.2**
HI:	**229.0**
OI:	**2.560**
PI:	**3.295**
PC:	**1.592**
S2/S3:	**89.43**

C15+ Composition

EOM ppm:	**6693**
HC ppm:	**1882**
mgHC/gTOC	**22.9**
% Sat:	**14.4**
% Aro:	**18.8**
% NSO:	**66.8**
% Asph:	**0.0**
Sats/Aro	**0.77**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:

C15+ Aromatic:

kerogen:

Canonical Variable

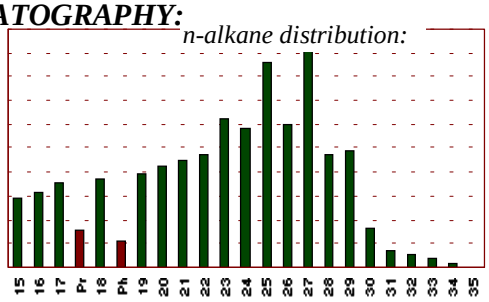
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

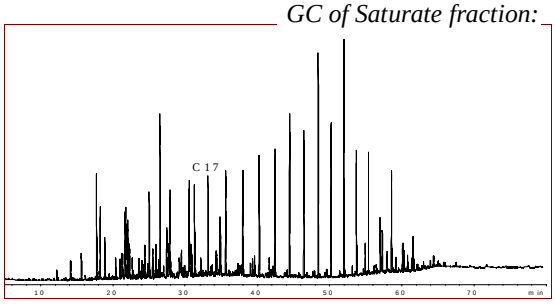
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.42**
Pr/n-C17:	**0.44**
Ph/n-C18:	**0.29**
n-C27/n-C17:	**2.78**
CPI 1:	**1.49**

n-alkane distribution:



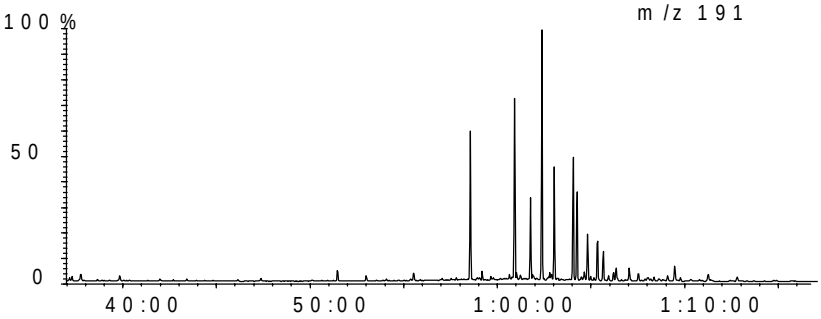
GC of Saturate fraction:



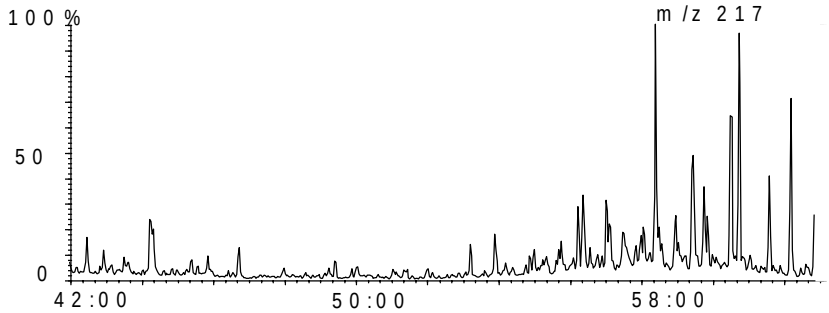
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**4.88**
C22/C21=	**0.27**
C24/C23=	**2.21**
C26/C25=	**0.00**
Tet/C23=	**7.92**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.73**
C30X/H=	**0.02**
Ol/H=	**0.00**
C31R/H=	**0.35**
GA/C31R=	**0.09**
C35S/C34S=	**0.18**
Ster/Terp=	**0.02**
Rearr/Reg=	**0.52**
%C27=	**23.95**
%C28=	**18.00**
%C29=	**58.05**
C29 20S/R=	**0.72**
Ts/Tm=	**0.02**
C29D/H=	**0.04**
DM/H=	**0.00**

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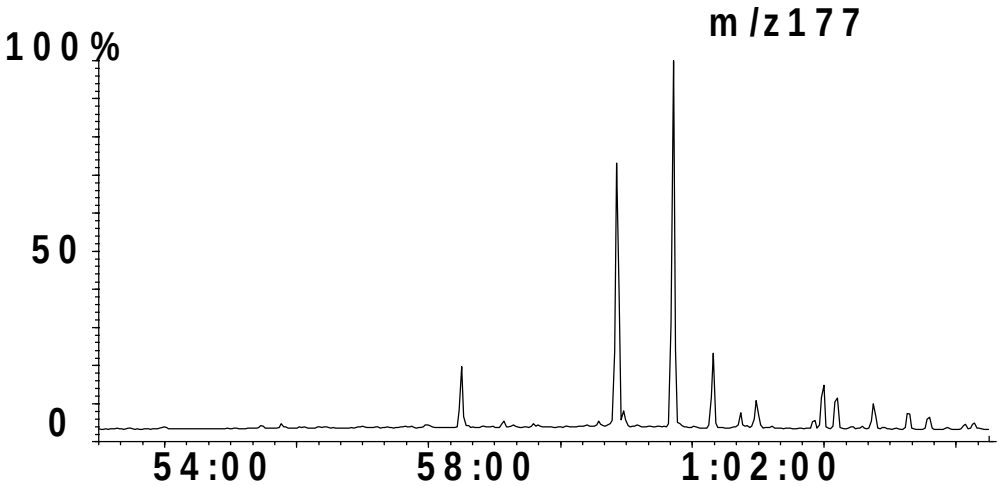
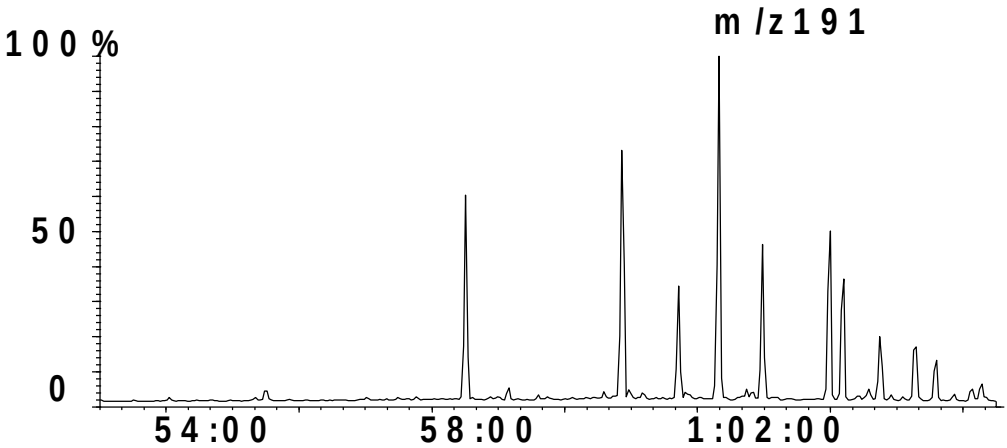
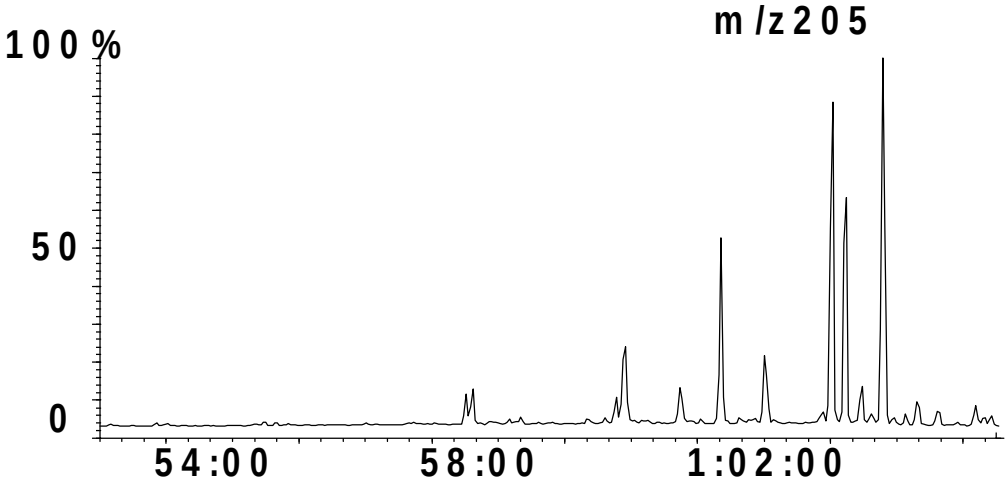
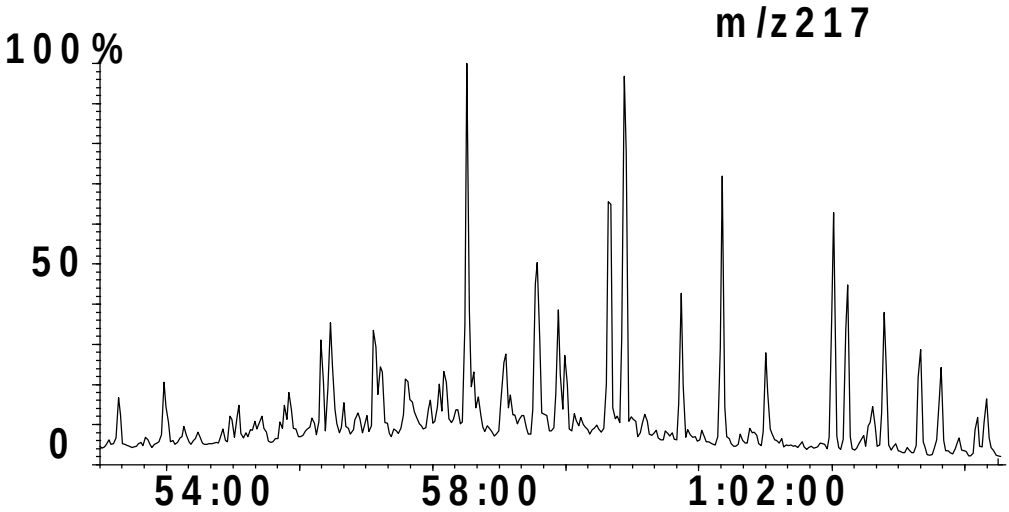
Country: **Australia**	Depth: **3370-3380m**	05-Jun-98
Basin: **Browse**	Age: **107** **(Ma)**	Sample ID: **9357**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**

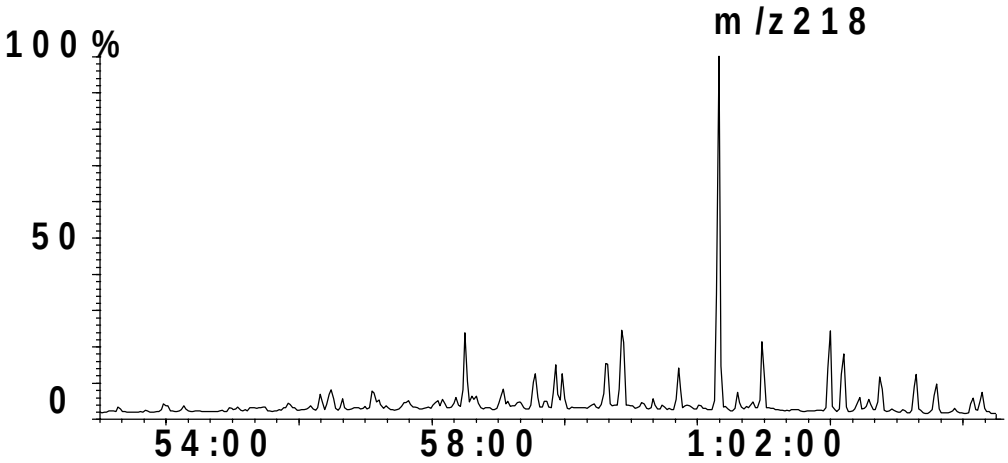


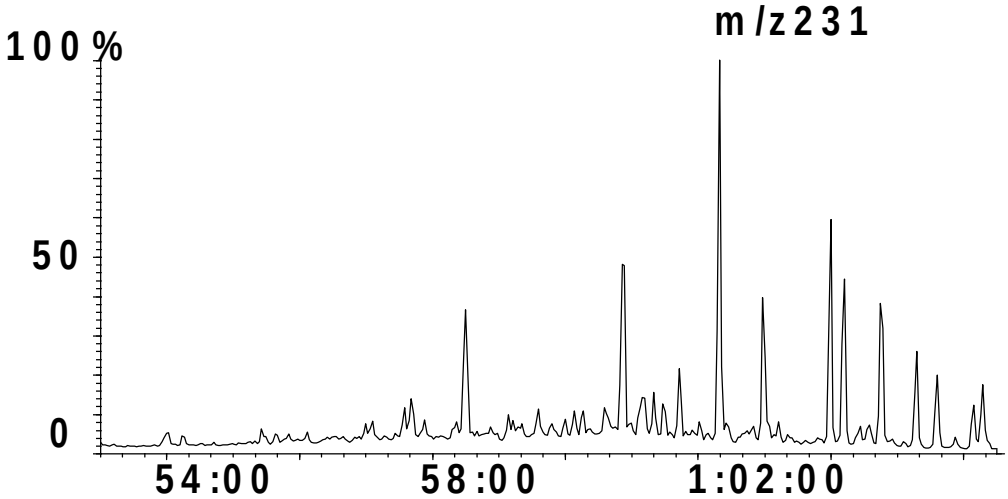




Country: **Australia**	Depth: **3370-3380m**	05-Jun-98
Basin: **Browse**	Age: **107** **(Ma)**	Sample ID: **9357**
Well: **Barcoo 1**	Formation:	Lat: **-15.343611**
Test:		Long: **120.636722**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Lombardina 1**
Test:

Depth: **2425m**
Age: **143** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9363**
Lat: **-15.288942**
Long: **121.537303**

BULK PROPERTIES:

Rock Eval:

Tmax	**440**
S1:	**4.12**
S2:	**2.33**
S3:	**2.63**
TOC	**1.26**
HI:	**184.9**
OI:	**208.7**
PI:	**0.638**
PC:	**0.528**
S2/S3:	**0.89**

C15+ Composition

EOM ppm:	**6477**
HC ppm:	**3846**
mgHC/gTOC	**305.3**
% Sat:	**58.0**
% Aro:	**9.0**
% NSO:	**33.0**
% Asph:	**0.0**
Sats/Aro	**6.46**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

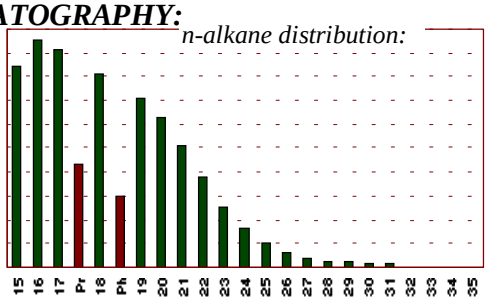
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

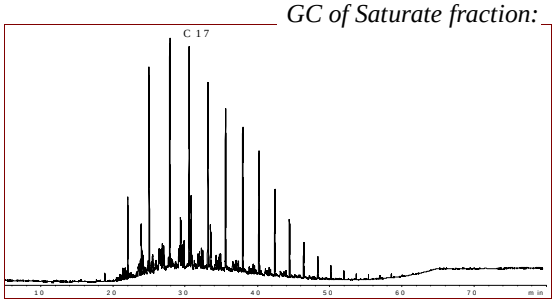
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.44**
Pr/n-C17:	**0.47**
Ph/n-C18:	**0.37**
n-C27/n-C17:	**0.05**
CPI 1:	**0.94**

n-alkane distribution:



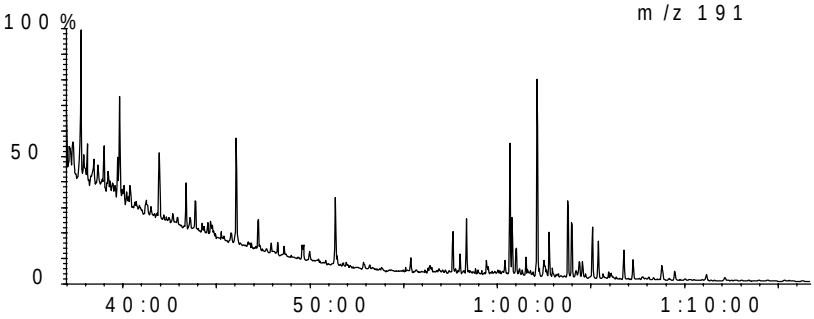
GC of Saturate fraction:



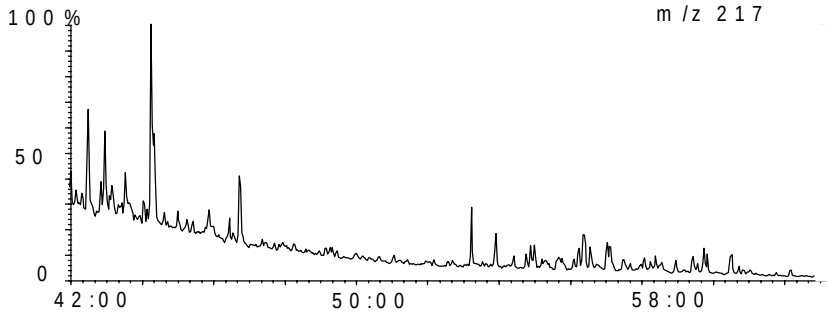
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.38**
C22/C21=	**0.45**
C24/C23=	**0.28**
C26/C25=	**0.61**
Tet/C23=	**0.55**
C27T/C27=	**0.01**
C28/H=	**0.02**
C29/H=	**0.67**
C30X/H=	**0.13**
Ol/H=	**0.01**
C31R/H=	**0.27**
GA/C31R=	**0.28**
C35S/C34S=	**0.42**
Ster/Terp=	**0.18**
Rearr/Reg=	**2.30**
%C27=	**47.28**
%C28=	**18.86**
%C29=	**33.86**
C29 20S/R=	**0.79**
Ts/Tm=	**0.76**
C29D/H=	**0.43**
DM/H=	**0.00**

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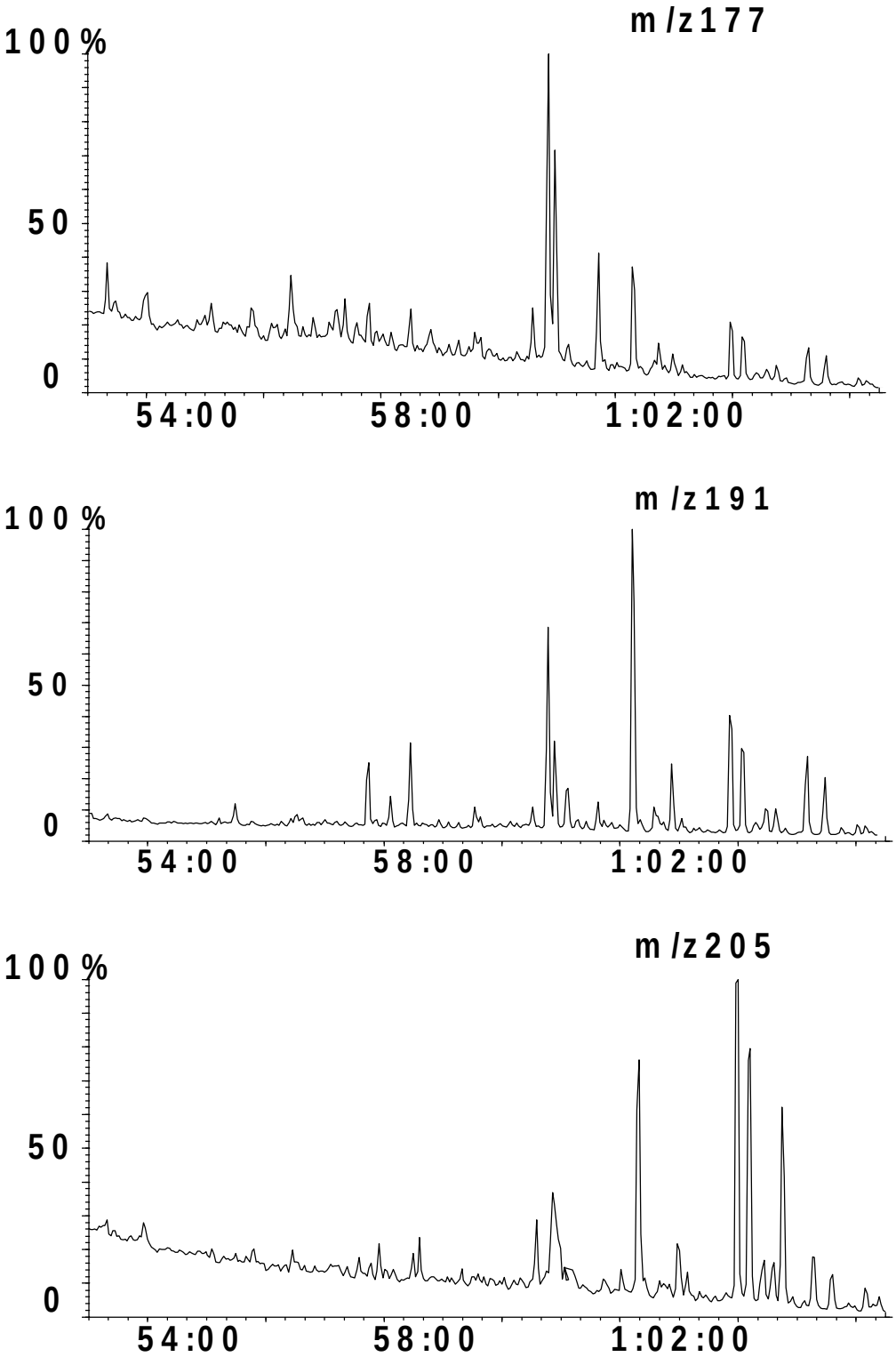
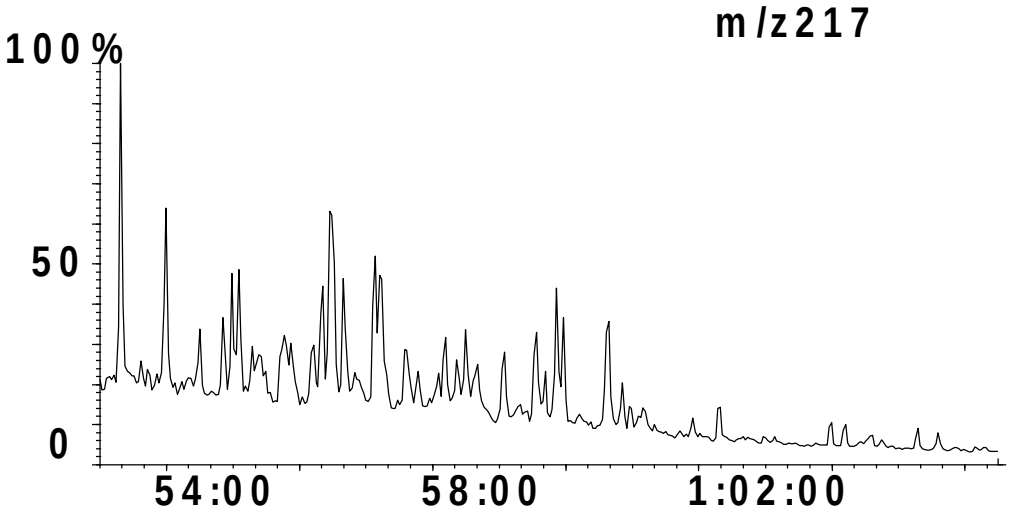
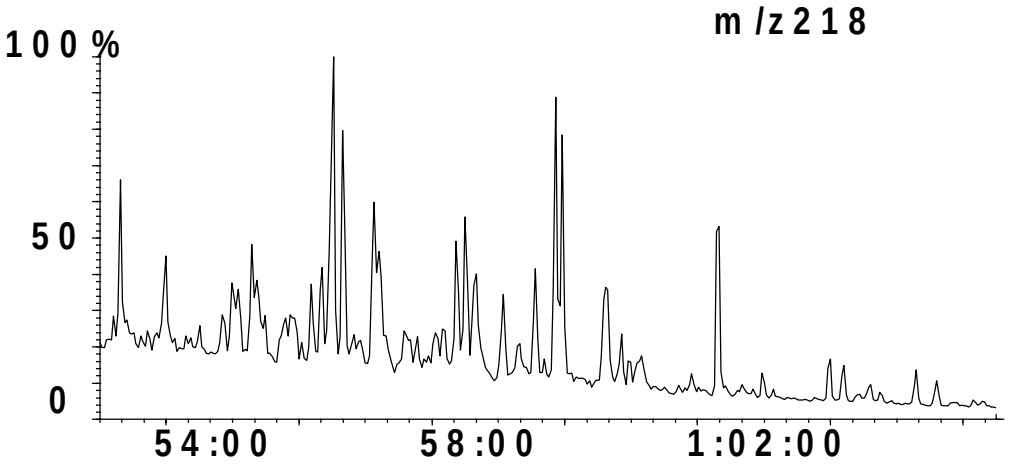
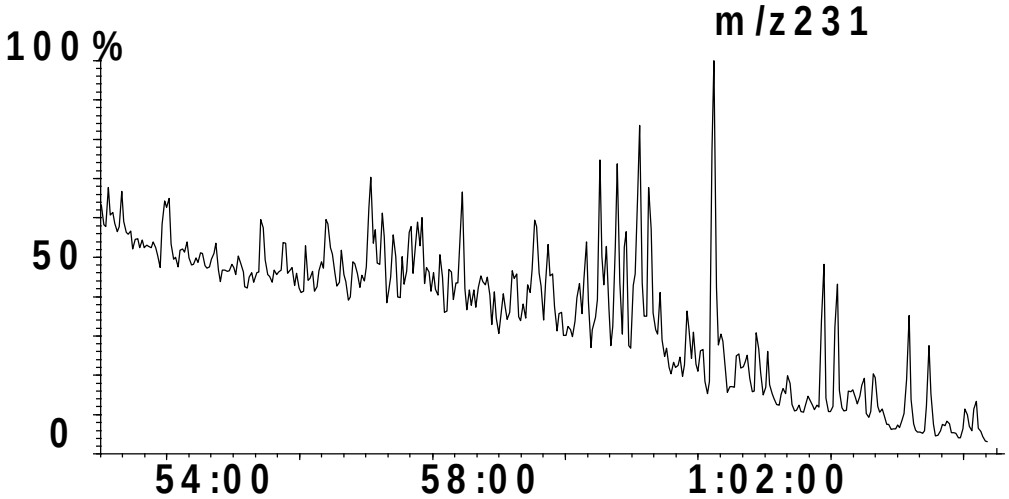
Country: **Australia**	Depth: **2425m**	05-Jun-98
Basin: **Browse**	Age: **143** **(Ma)**	Sample ID: **9363**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**



Country: **Australia**	Depth: **2425m**	05-Jun-98
Basin: **Browse**	Age: **143** **(Ma)**	Sample ID: **9363**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Lombardina 1**
Test:

Depth: **2435m**
Age: **151** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9364**
Lat: **-15.288942**
Long: **121.537303**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**3.1**
S2:	**1.91**
S3:	**1.03**
TOC	**1.17**
HI:	**163.2**
OI:	**88.03**
PI:	**0.618**
PC:	**0.410**
S2/S3:	**1.85**

C15+ Composition

EOM ppm:	**5571**
HC ppm:	**2515**
mgHC/gTOC	**215.0**
% Sat:	**53.1**
% Aro:	**9.6**
% NSO:	**37.3**
% Asph:	**0.0**
Sats/Aro	**5.52**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

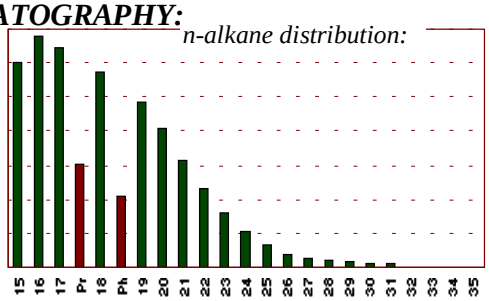
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

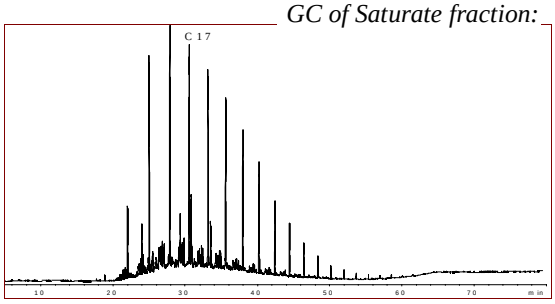
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.45**
Pr/n-C17:	**0.47**
Ph/n-C18:	**0.37**
n-C27/n-C17:	**0.04**
CPI 1:	**0.93**

n-alkane distribution:



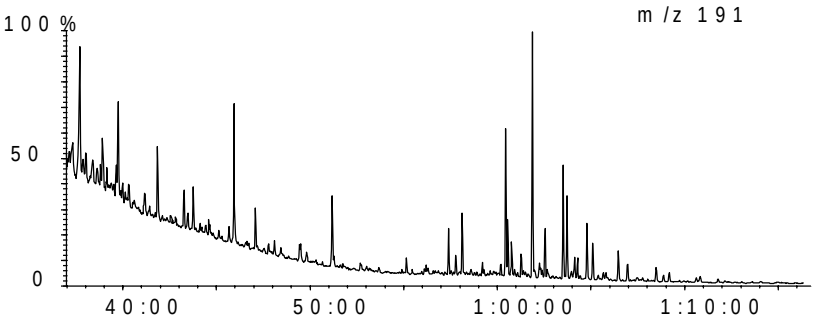
GC of Saturate fraction:



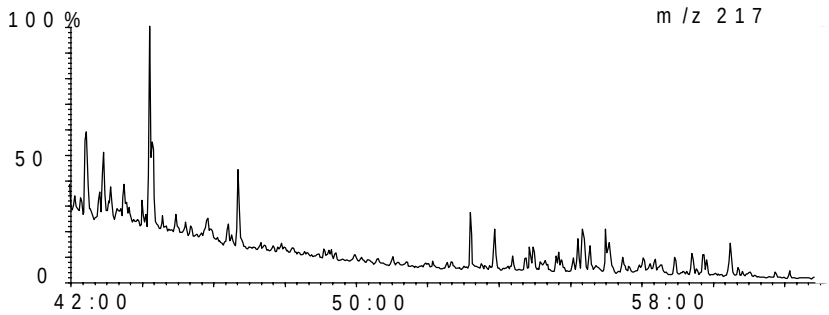
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.92**
C22/C21=	**0.63**
C24/C23=	**0.30**
C26/C25=	**0.60**
Tet/C23=	**0.50**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**0.60**
C30X/H=	**0.13**
Ol/H=	**0.01**
C31R/H=	**0.33**
GA/C31R=	**0.26**
C35S/C34S=	**0.44**
Ster/Terp=	**0.19**
Rearr/Reg=	**1.41**
%C27=	**46.99**
%C28=	**16.29**
%C29=	**36.72**
C29 20S/R=	**0.61**
Ts/Tm=	**0.75**
C29D/H=	**0.38**
DM/H=	**0.00**

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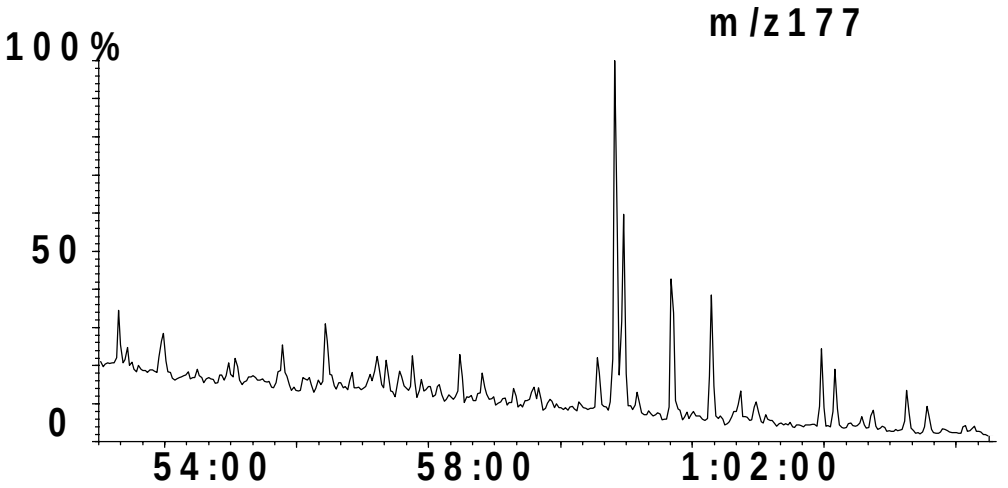
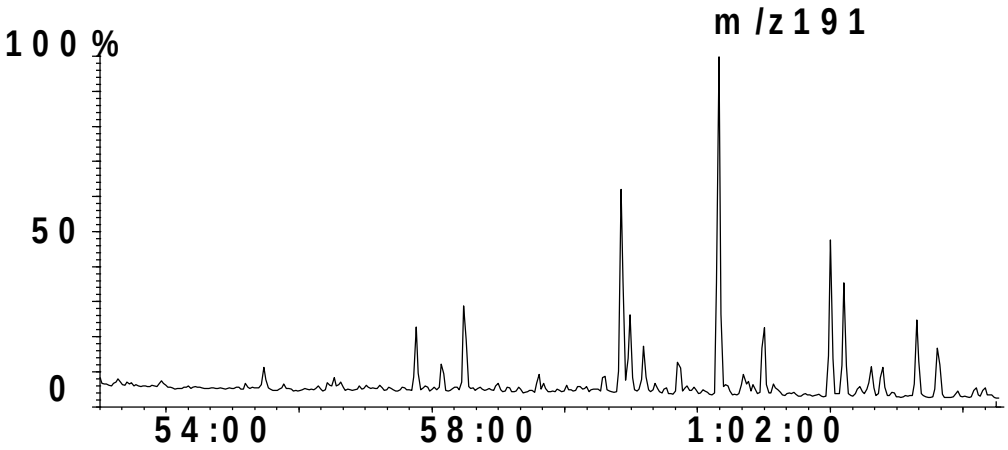
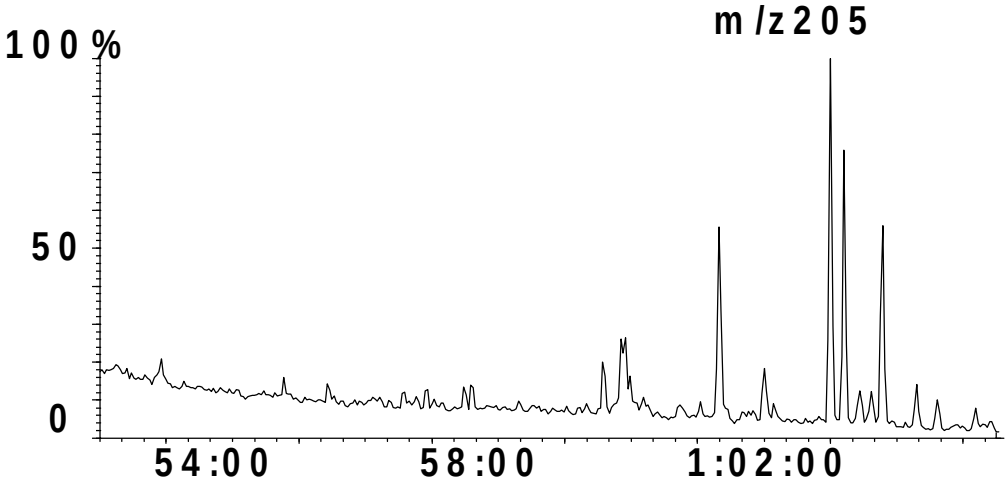
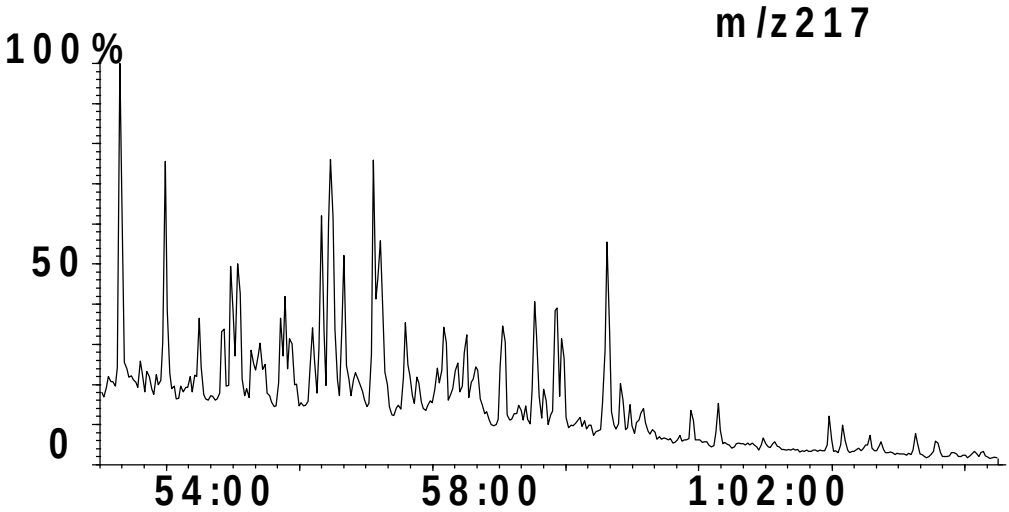
Country: **Australia**	Depth: **2435m**	05-Jun-98
Basin: **Browse**	Age: **151** **(Ma)**	Sample ID: **9364**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**

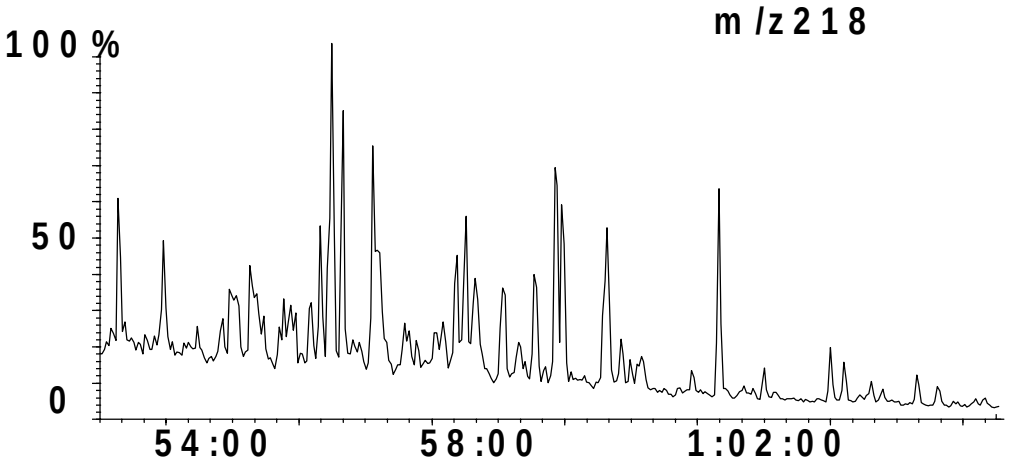


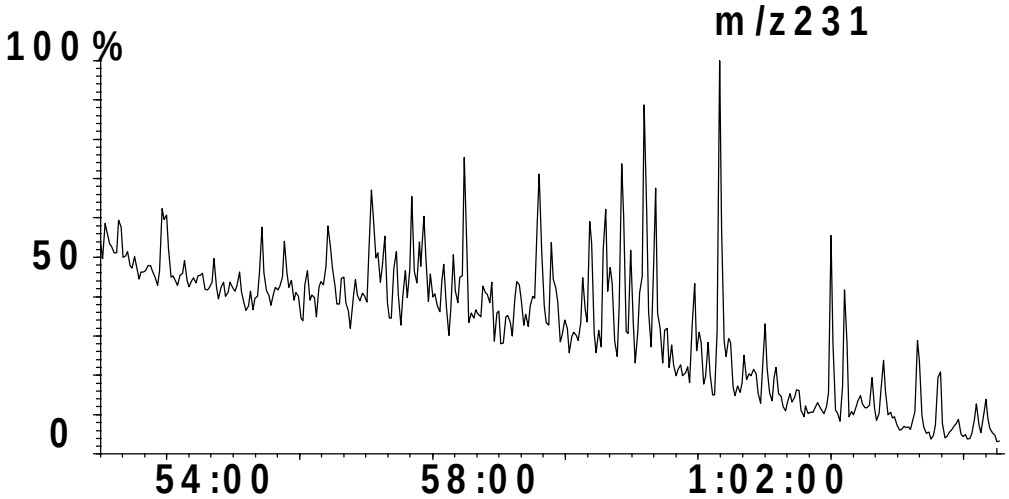




Country: **Australia**	Depth: **2435m**	05-Jun-98
Basin: **Browse**	Age: **151** **(Ma)**	Sample ID: **9364**
Well: **Lombardina 1**	Formation:	Lat: **-15.288942**
Test:		Long: **121.537303**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**1456.94-1463.04m**		05-Jun-98
Basin:	**Browse**	Age:	**160** **(Ma)**	Sample ID:	**9365**
Well:	**Lynher 1**	Formation:		Lat:	**-15.9401**
Test:				Long:	**121.083065**

BULK PROPERTIES:

Rock Eval:

Tmax	**431**
S1:	**1.39**
S2:	**8.92**
S3:	**1.78**
TOC	**6.36**
HI:	**140.2**
OI:	**27.98**
PI:	**0.134**
PC:	**0.845**
S2/S3:	**5.01**

C15+ Composition

EOM ppm:	**5392**
HC ppm:	**1783**
mgHC/gTOC	**28.0**
% Sat:	**30.3**
% Aro:	**9.7**
% NSO:	**60.0**
% Asph:	**0.0**
Sats/Aro	**3.12**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.67**
C15+ Aromatic:	**-25.65**
kerogen:	**-24.32**
Canonical Variable	**-1.12**

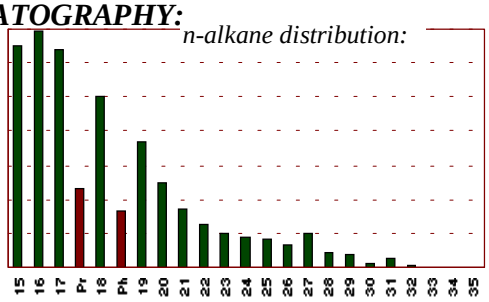
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

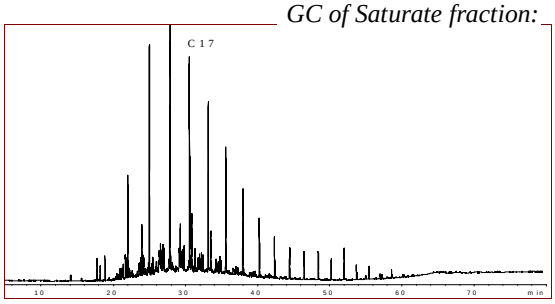
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.40**
Pr/n-C17:	**0.36**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.15**
CPI 1:	**1.17**

n-alkane distribution:



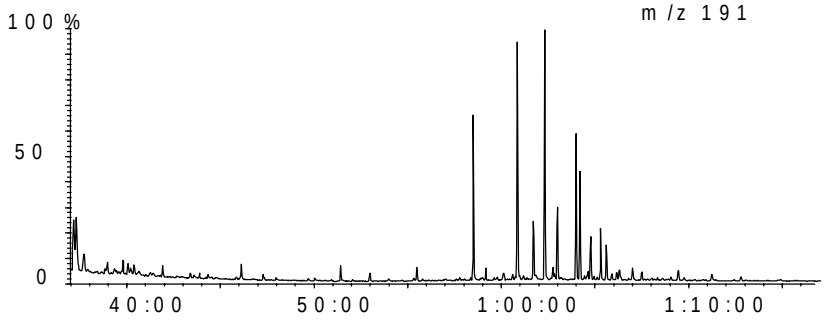
GC of Saturate fraction:



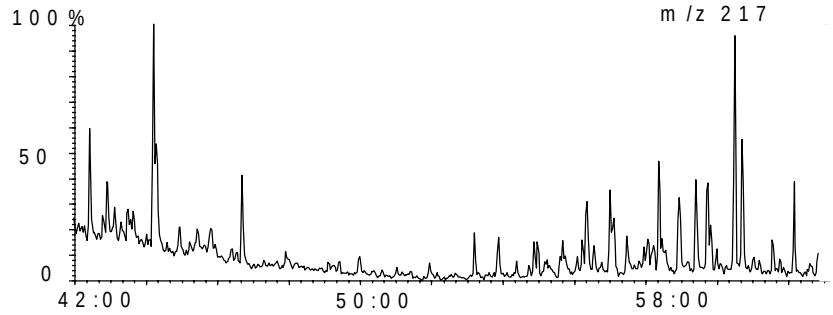
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.17**
C22/C21=	**0.45**
C24/C23=	**0.36**
C26/C25=	**0.58**
Tet/C23=	**0.98**
C27T/C27=	**0.01**
C28/H=	**0.03**
C29/H=	**0.95**
C30X/H=	**0.02**
Ol/H=	**0.00**
C31R/H=	**0.43**
GA/C31R=	**0.08**
C35S/C34S=	**0.31**
Ster/Terp=	**0.08**
Rearr/Reg=	**0.56**
%C27=	**20.69**
%C28=	**18.41**
%C29=	**60.90**
C29 20S/R=	**0.38**
Ts/Tm=	**0.02**
C29D/H=	**0.04**
DM/H=	**0.00**

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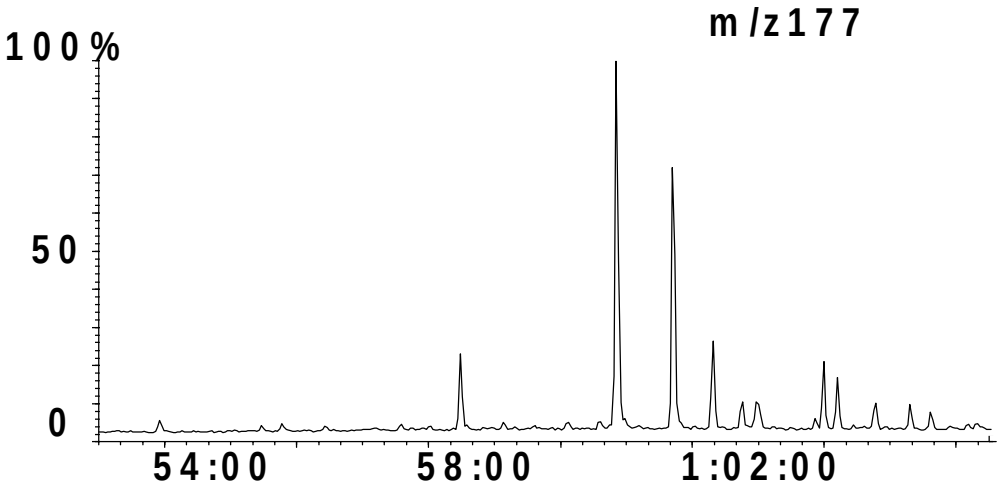
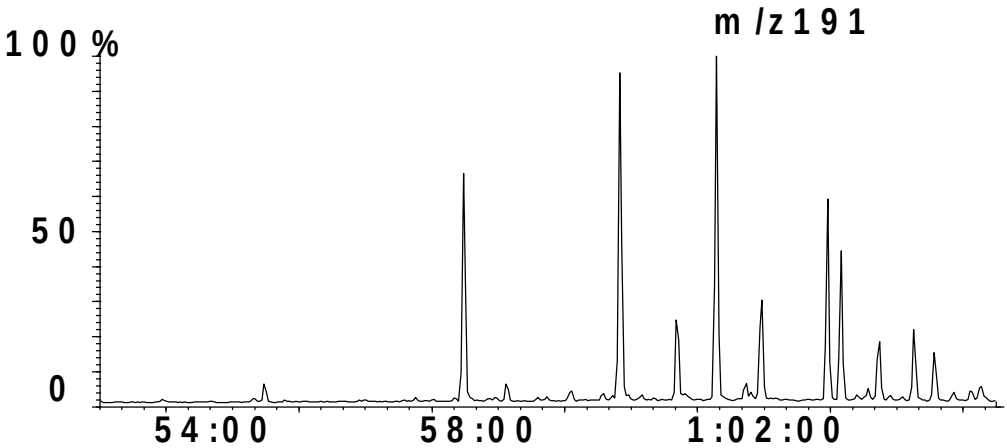
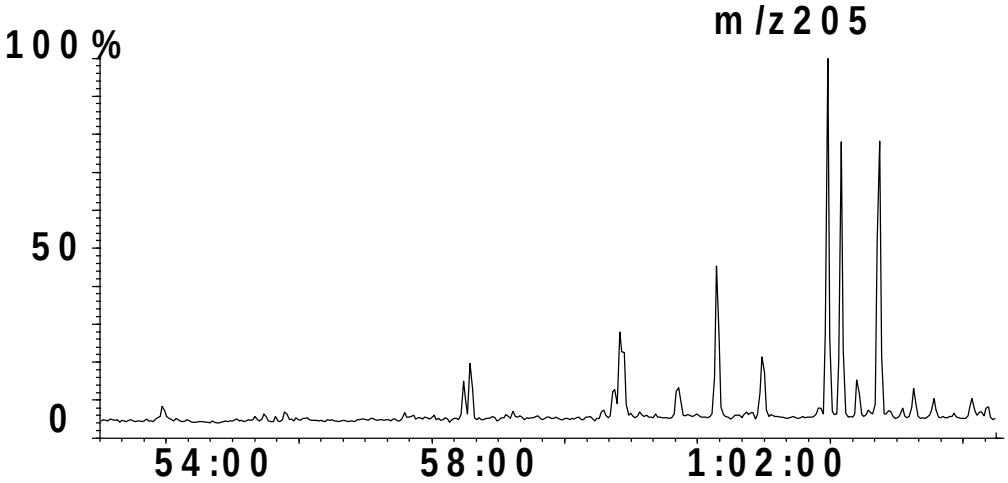
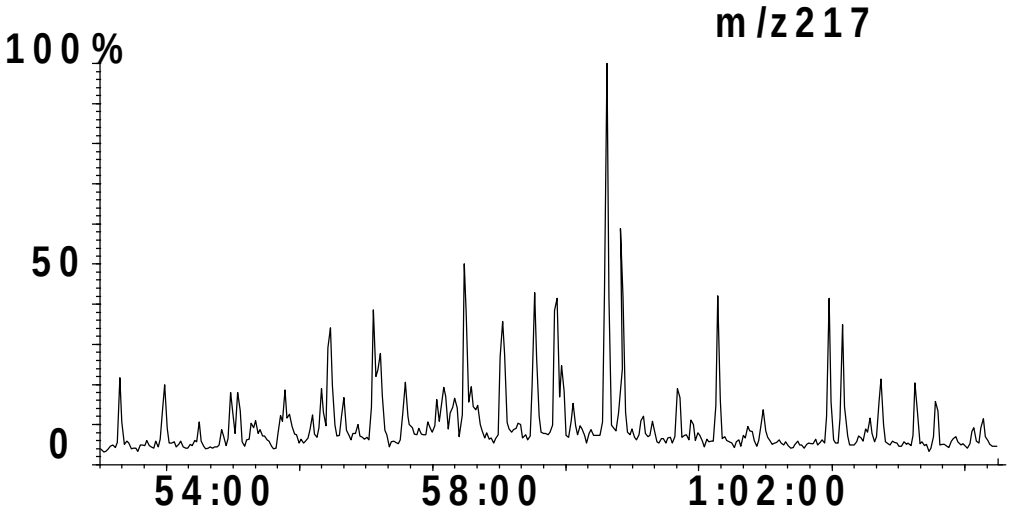
Country: **Australia**	Depth: **1456.94-1463.04m**	05-Jun-98
Basin: **Browse**	Age: **160** **(Ma)**	Sample ID: **9365**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**

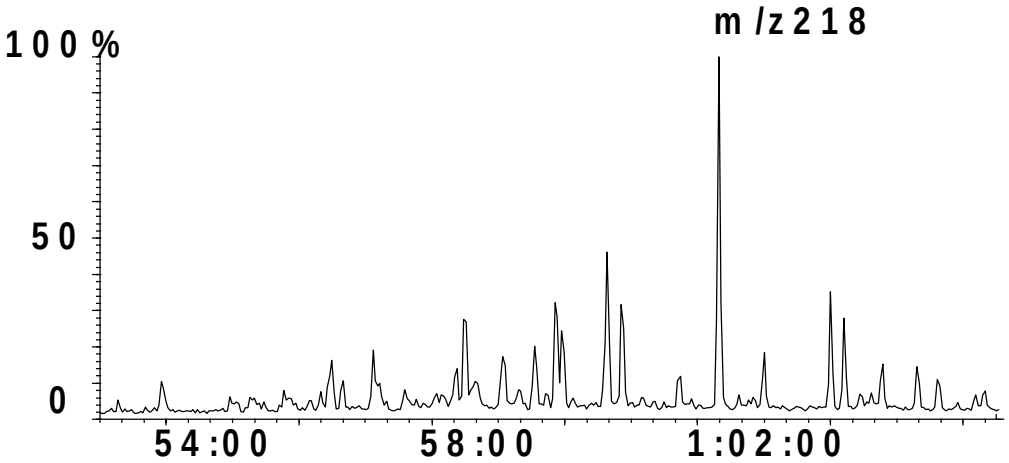


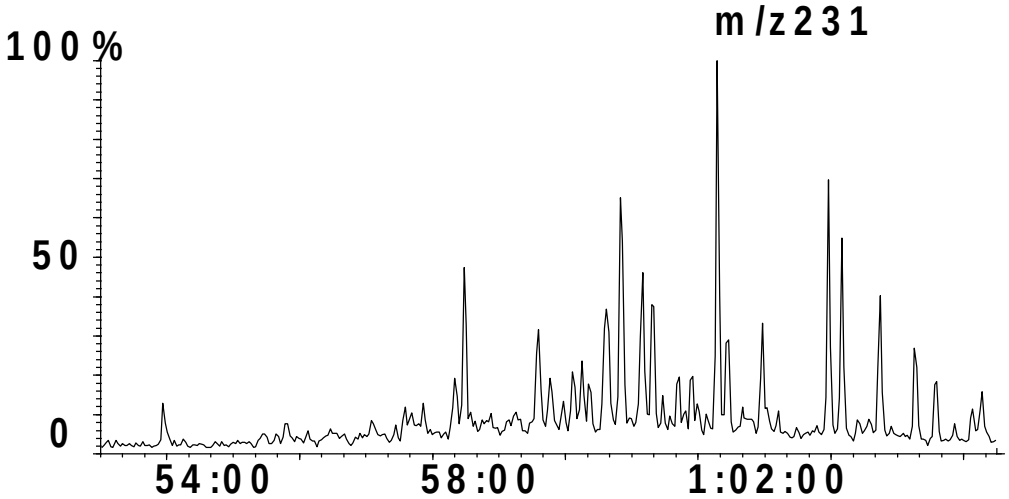




Country: **Australia**	Depth: **1456.94-1463.04m**	05-Jun-98
Basin: **Browse**	Age: **160** **(Ma)**	Sample ID: **9365**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Lynher 1**
Test:

Depth: **1539.24-1542.29m**
Age: **177** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9366**
Lat: **-15.9401**
Long: **121.083065**

BULK PROPERTIES:

Rock Eval:

Tmax	**433**
S1:	**1.01**
S2:	**20.32**
S3:	**3.05**
TOC	**12.23**
HI:	**166.1**
OI:	**24.93**
PI:	**4.735**
PC:	**1.749**
S2/S3:	**6.66**

C15+ Composition

EOM ppm:	**8566**
HC ppm:	**2064**
mgHC/gTOC	**16.9**
% Sat:	**15.3**
% Aro:	**14.2**
% NSO:	**70.4**
% Asph:	**0.0**
Sats/Aro	**1.08**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.35**
C15+ Aromatic:	**-25.65**
kerogen:	**-24.43**
Canonical Variable	**-1.93**

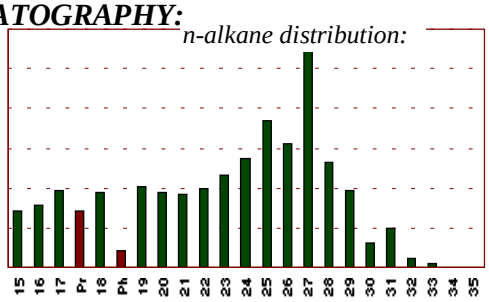
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

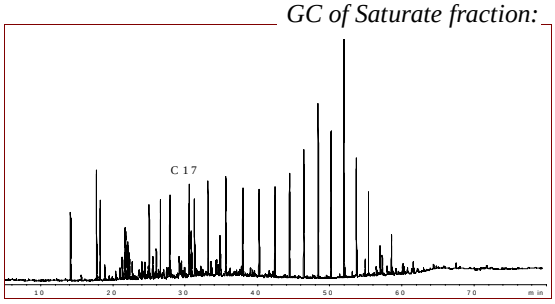
GAS CHROMATOGRAPHY:

Pr/Ph:	**3.30**
Pr/n-C17:	**0.73**
Ph/n-C18:	**0.22**
n-C27/n-C17:	**2.94**
CPI 1:	**1.38**

n-alkane distribution:



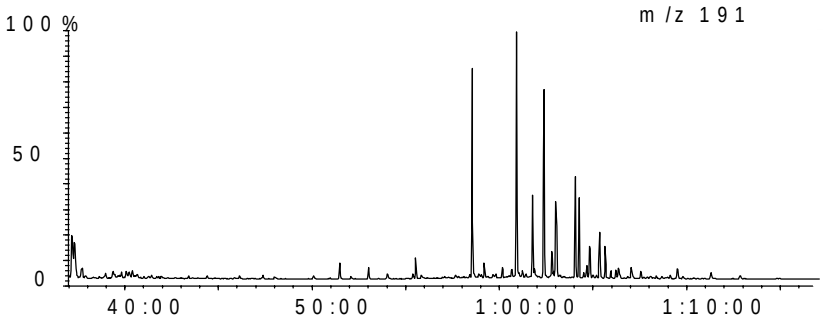
GC of Saturate fraction:



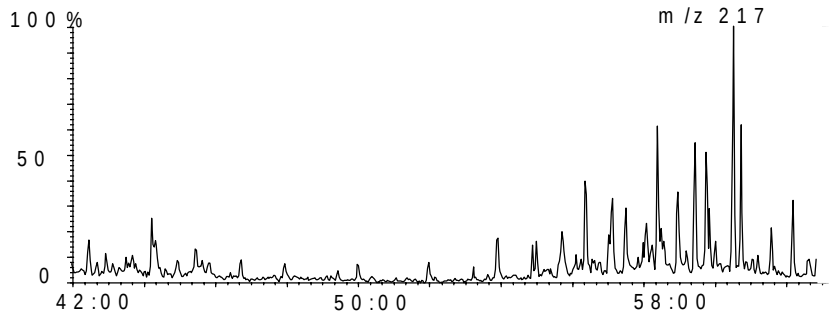
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**3.26**
C22/C21=	**0.58**
C24/C23=	**1.20**
C26/C25=	**0.51**
Tet/C23=	**5.32**
C27T/C27=	**0.00**
C28/H=	**0.05**
C29/H=	**1.31**
C30X/H=	**0.03**
Ol/H=	**0.00**
C31R/H=	**0.43**
GA/C31R=	**0.15**
C35S/C34S=	**0.19**
Ster/Terp=	**0.10**
Rearr/Reg=	**0.39**
%C27=	**10.01**
%C28=	**21.79**
%C29=	**68.20**
C29 20S/R=	**0.52**
Ts/Tm=	**0.01**
C29D/H=	**0.03**
DM/H=	**0.00**

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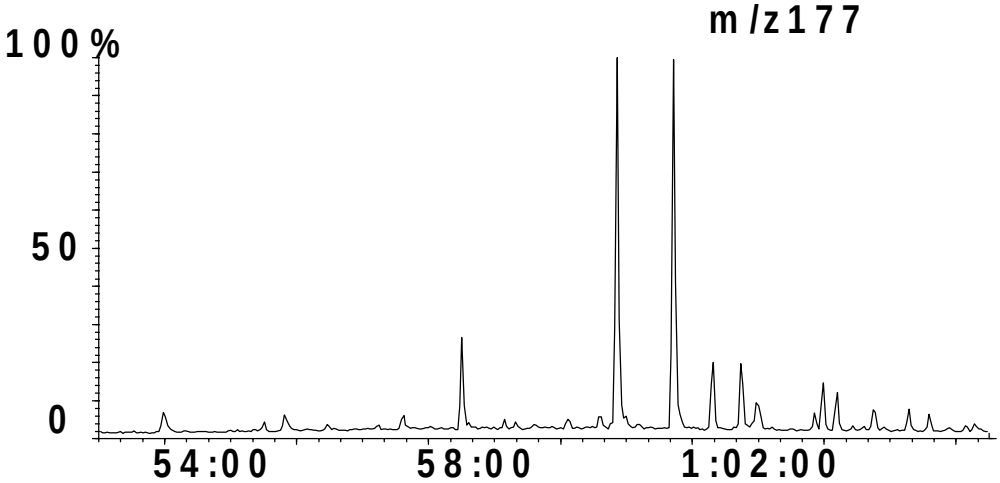
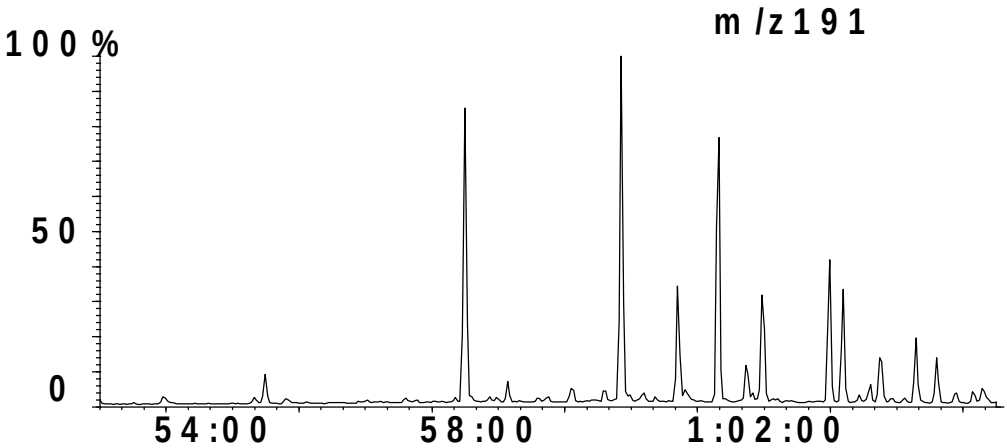
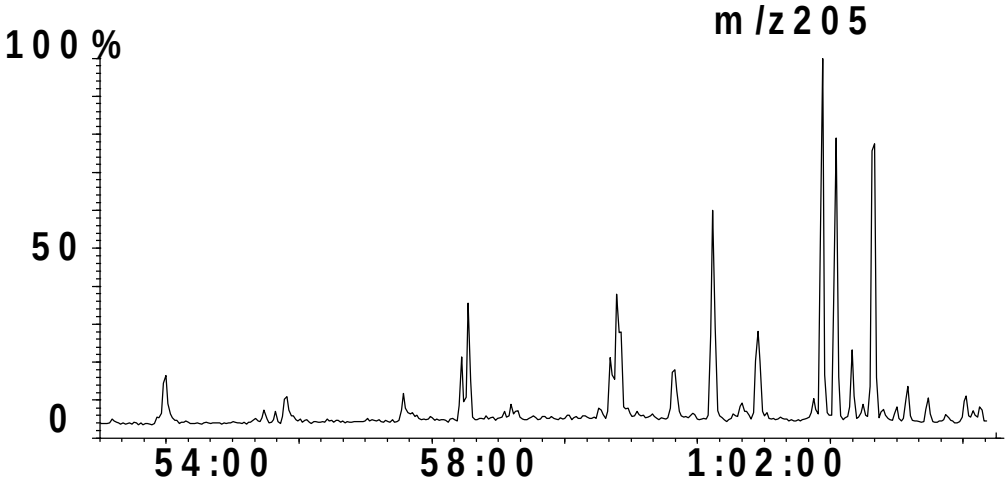
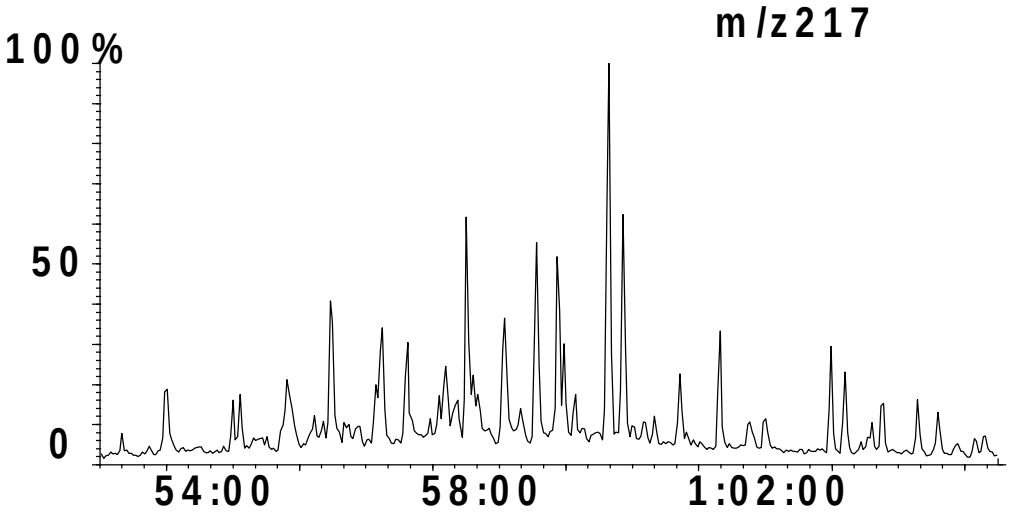
Country: **Australia**	Depth: **1539.24-1542.29m**	05-Jun-98
Basin: **Browse**	Age: **177** **(Ma)**	Sample ID: **9366**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**

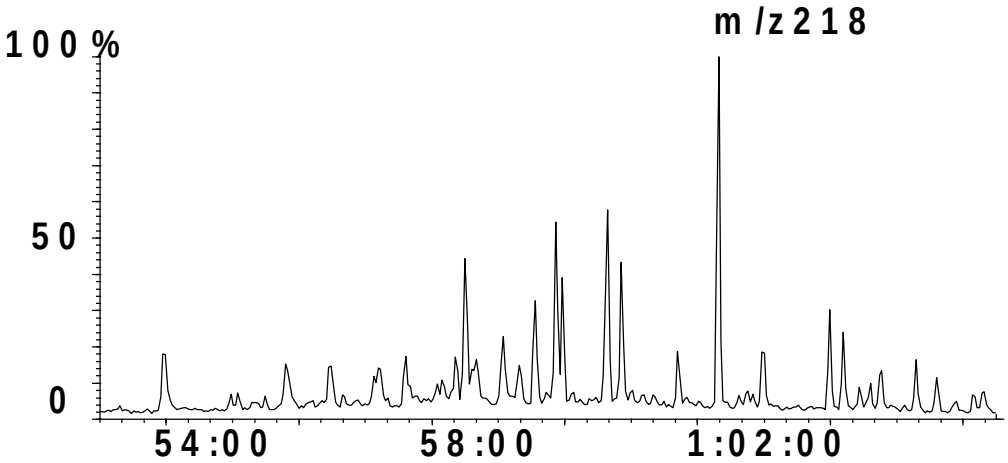


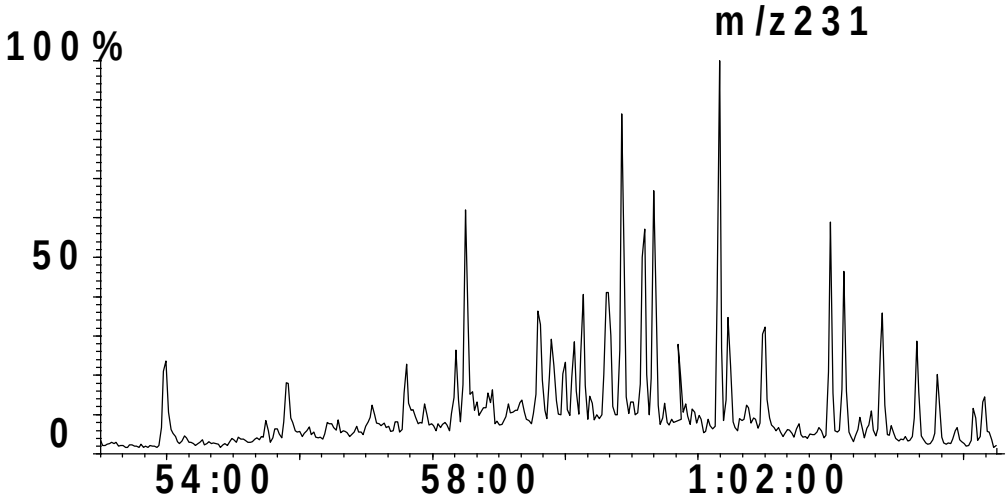




Country: **Australia**	Depth: **1539.24-1542.29m**	05-Jun-98
Basin: **Browse**	Age: **177** **(Ma)**	Sample ID: **9366**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Prudhoe 1**
Test:

Depth: **2520m**
Age: **127.9** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9369**
Lat: **-13.748766**
Long: **123.864176**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**0.6**
S2:	**3.74**
S3:	**4.4**
TOC	**2**
HI:	**187**
OI:	**220**
PI:	**0.138**
PC:	**0.355**
S2/S3:	**0.85**

C15+ Composition

EOM ppm:	**2902**
HC ppm:	**826**
mgHC/gTOC	**41.3**
% Sat:	**24.4**
% Aro:	**10.6**
% NSO:	**65.1**
% Asph:	**0.0**
Sats/Aro	**2.30**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.52**
C15+ Aromatic:	**-25.89**
kerogen:	**-23.89**
Canonical Variable	**-2.03**

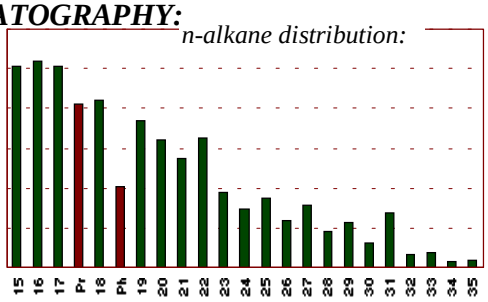
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

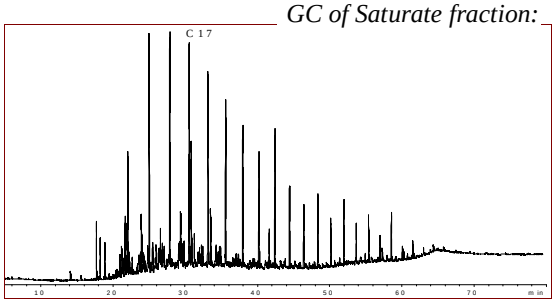
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.03**
Pr/n-C17:	**0.81**
Ph/n-C18:	**0.48**
n-C27/n-C17:	**0.31**
CPI 1:	**1.15**

n-alkane distribution:



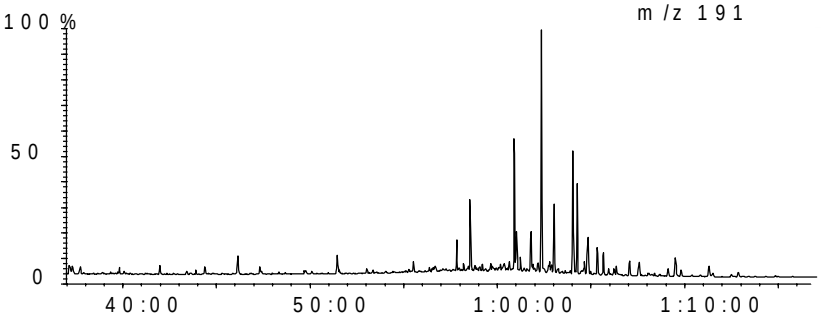
GC of Saturate fraction:



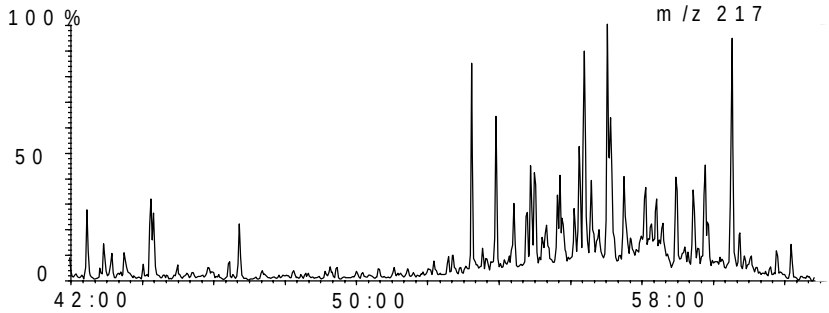
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.37**
C22/C21=	**0.49**
C24/C23=	**0.40**
C26/C25=	**0.93**
Tet/C23=	**0.80**
C27T/C27=	**0.00**
C28/H=	**0.02**
C29/H=	**0.55**
C30X/H=	**0.05**
Ol/H=	**0.03**
C31R/H=	**0.37**
GA/C31R=	**0.13**
C35S/C34S=	**1.41**
Ster/Terp=	**0.41**
Rearr/Reg=	**0.93**
%C27=	**42.82**
%C28=	**14.36**
%C29=	**42.82**
C29 20S/R=	**0.29**
Ts/Tm=	**0.43**
C29D/H=	**0.29**
DM/H=	**0.00**

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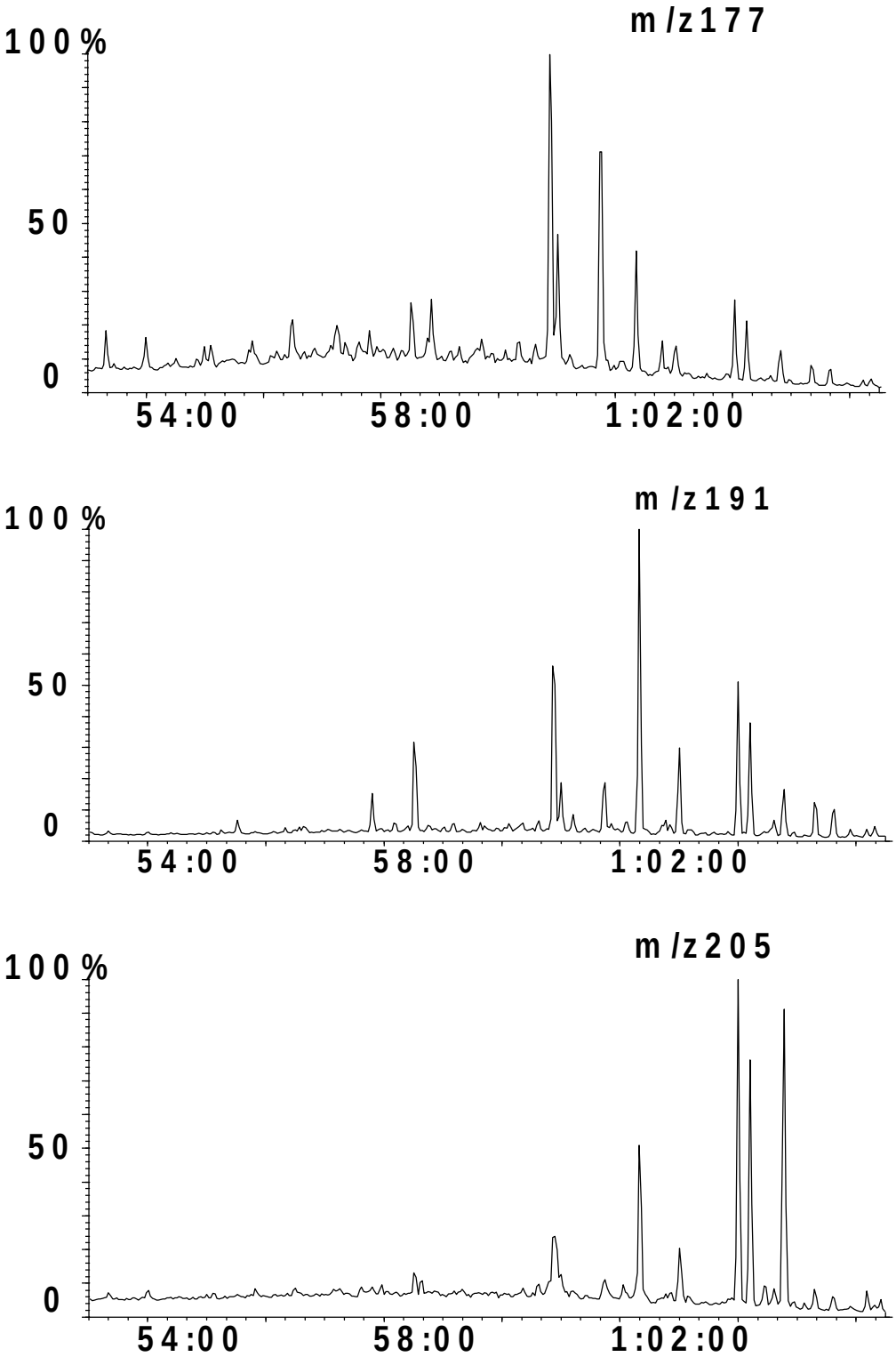
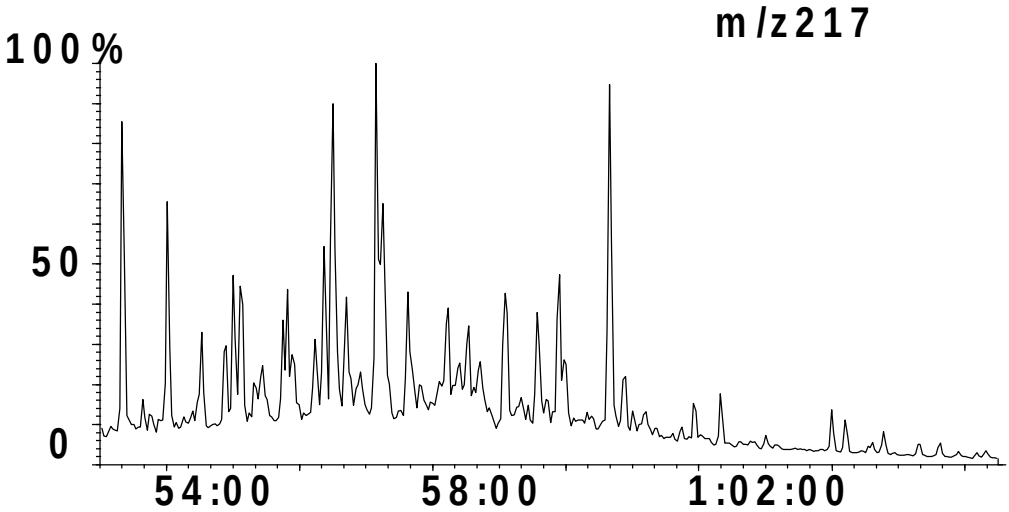
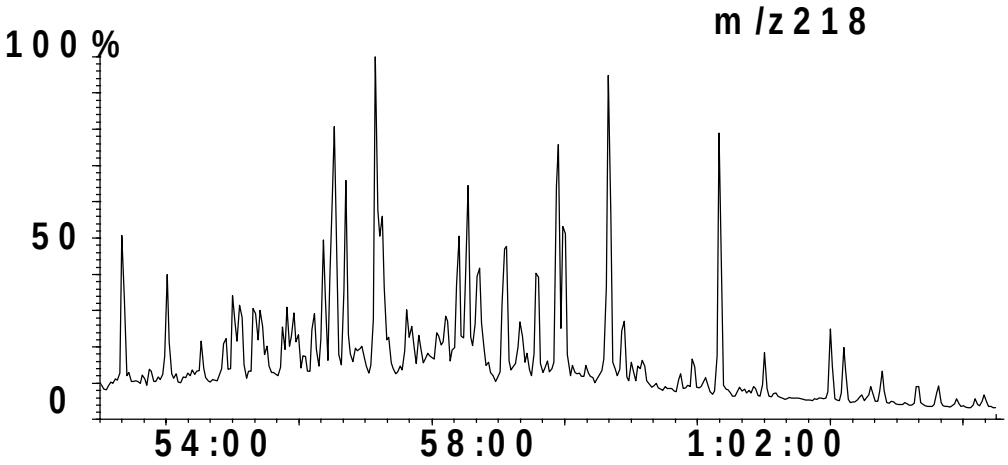
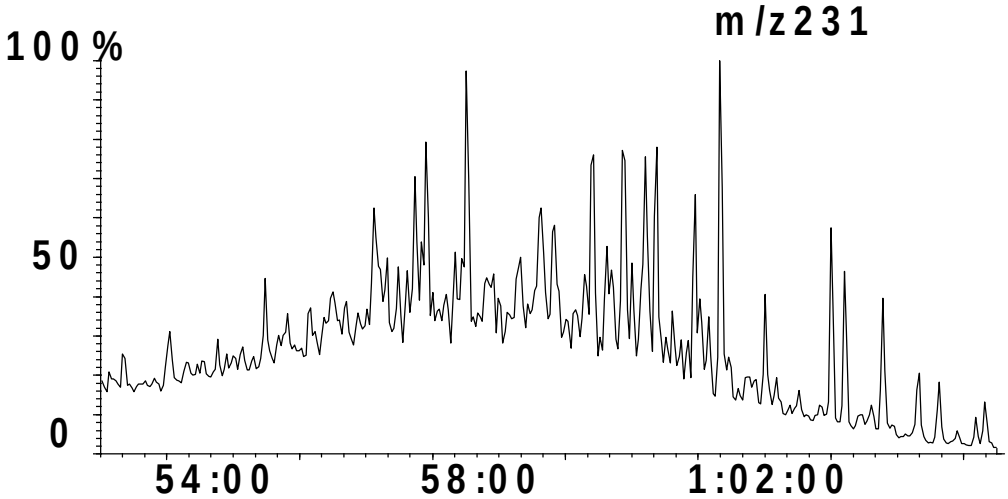
Country: **Australia**	Depth: **2520m**	05-Jun-98
Basin: **Browse**	Age: **127.9** **(Ma)**	Sample ID: **9369**
Well: **Prudhoe 1**	Formation:	Lat: **-13.748766**
Test:		Long: **123.864176**



Country: **Australia**	Depth: **2520m**	05-Jun-98
Basin: **Browse**	Age: **127.9** **(Ma)**	Sample ID: **9369**
Well: **Prudhoe 1**	Formation:	Lat: **-13.748766**
Test:		Long: **123.864176**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Rob Roy 1**
Test:

Depth: **1539.24-1542.29m**
Age: **175** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9370**
Lat: **-13.971**
Long: **124.199194**

BULK PROPERTIES:

Rock Eval:

Tmax	**422**
S1:	**2.47**
S2:	**6.97**
S3:	**2.94**
TOC	**3.58**
HI:	**194.6**
OI:	**82.12**
PI:	**0.261**
PC:	**0.774**
S2/S3:	**2.37**

C15+ Composition

EOM ppm:	**6572**
HC ppm:	**2639**
mgHC/gTOC	**73.7**
% Sat:	**33.5**
% Aro:	**14.3**
% NSO:	**52.2**
% Asph:	**0.0**
Sats/Aro	**2.35**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

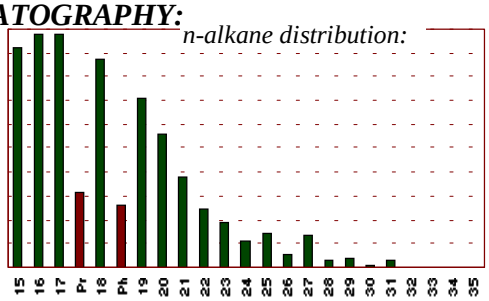
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

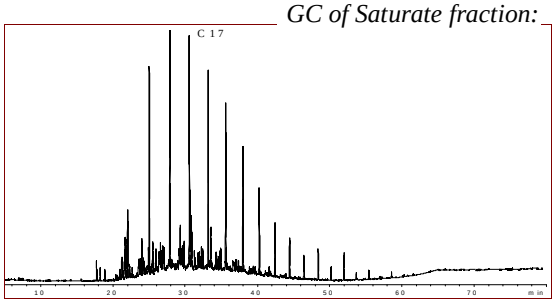
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.20**
Pr/n-C17:	**0.32**
Ph/n-C18:	**0.30**
n-C27/n-C17:	**0.14**
CPI 1:	**1.54**

n-alkane distribution:



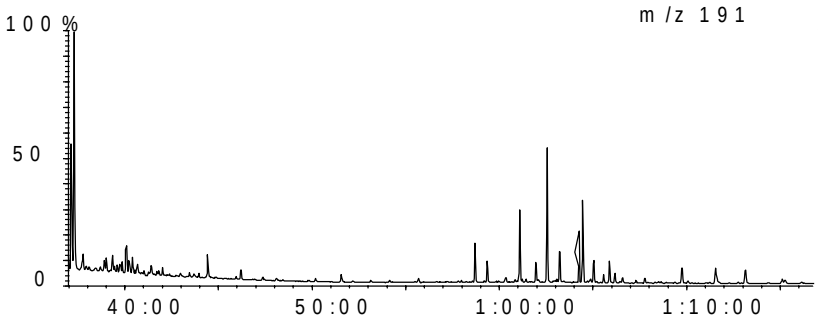
GC of Saturate fraction:



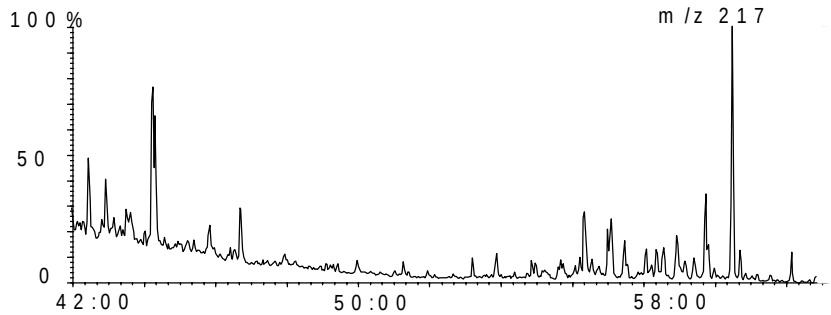
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.62**
C22/C21=	**0.51**
C24/C23=	**0.32**
C26/C25=	**0.55**
Tet/C23=	**0.73**
C27T/C27=	**0.01**
C28/H=	**0.03**
C29/H=	**0.54**
C30X/H=	**0.02**
Ol/H=	**0.00**
C31R/H=	**0.61**
GA/C31R=	**0.04**
C35S/C34S=	**0.00**
Ster/Terp=	**0.22**
Rearr/Reg=	**0.46**
%C27=	**13.67**
%C28=	**11.87**
%C29=	**74.45**
C29 20S/R=	**0.08**
Ts/Tm=	**0.05**
C29D/H=	**0.04**
DM/H=	**0.00**

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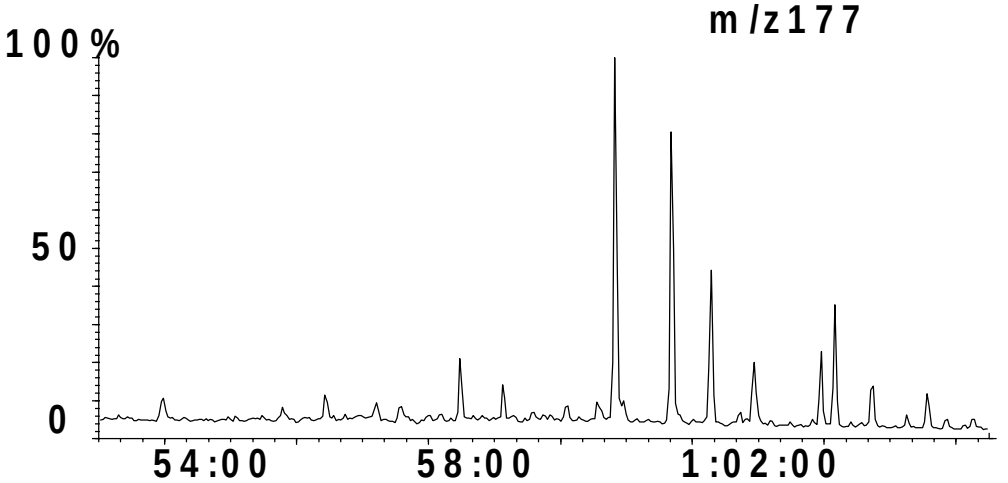
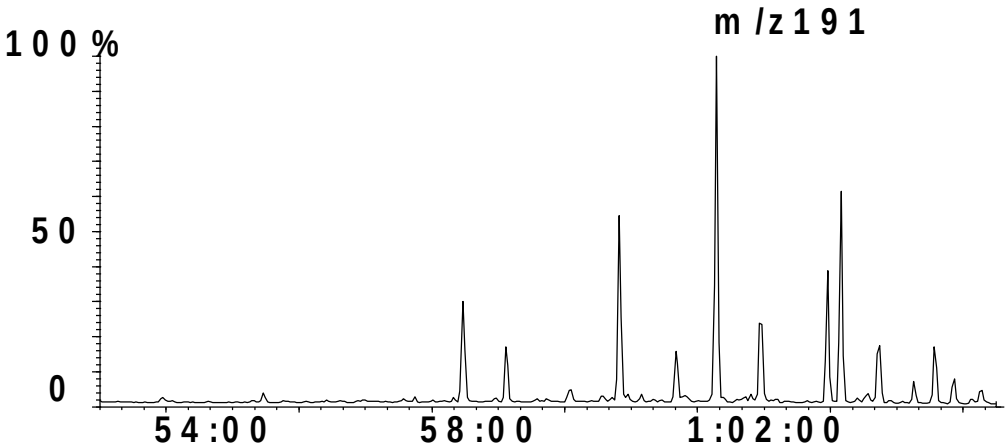
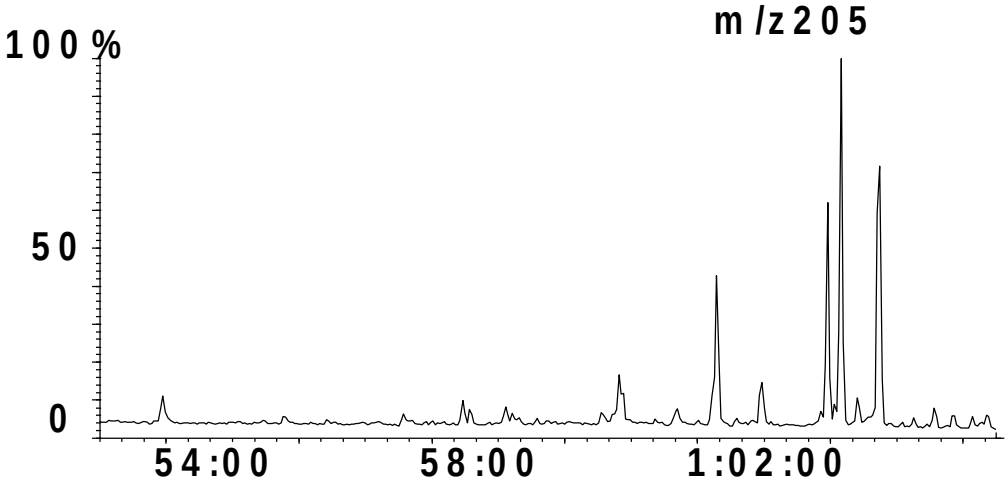
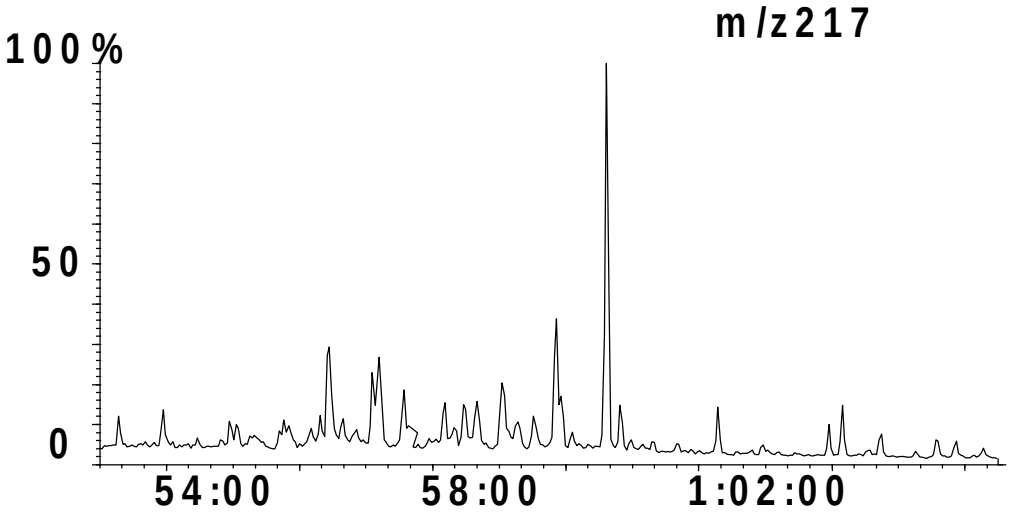
Country: **Australia**	Depth: **1539.24-1542.29m**	05-Jun-98
Basin: **Browse**	Age: **175** **(Ma)**	Sample ID: **9370**
Well: **Rob Roy 1**	Formation:	Lat: **-13.971**
Test:		Long: **124.199194**

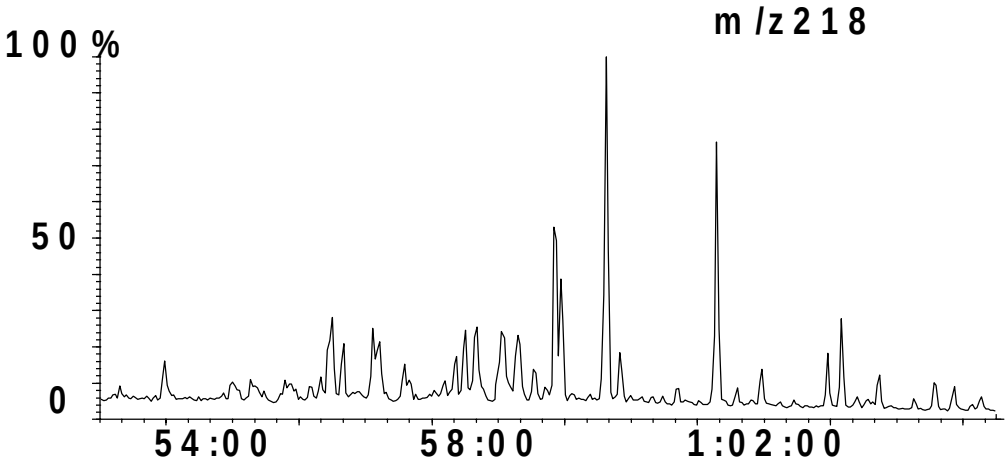


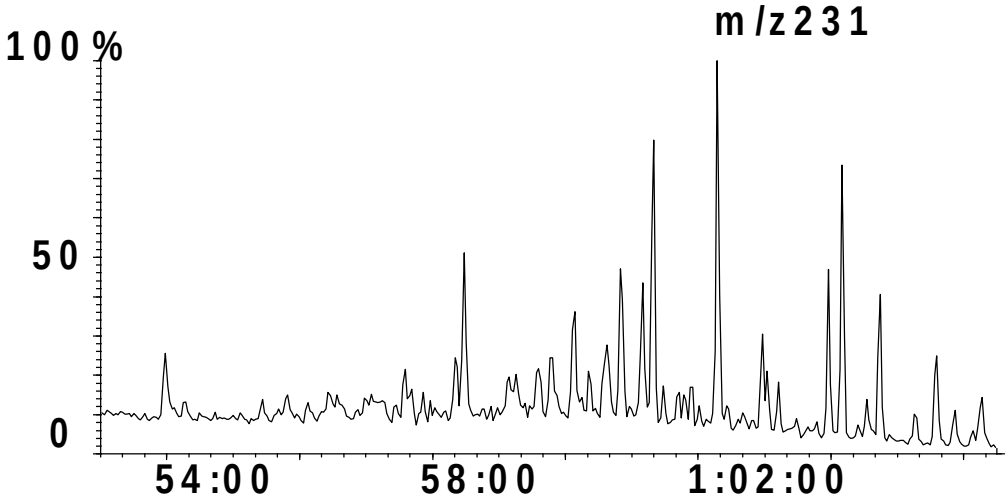




Country: **Australia**	Depth: **1539.24-1542.29m**	05-Jun-98
Basin: **Browse**	Age: **175** **(Ma)**	Sample ID: **9370**
Well: **Rob Roy 1**	Formation:	Lat: **-13.971**
Test:		Long: **124.199194**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Rob Roy 1**
Test:

Depth: **1581.91-1584.96m**
Age: **267** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9373**
Lat: **-13.971**
Long: **124.199194**

BULK PROPERTIES:

Rock Eval:

Tmax	**420**
S1:	**1.5**
S2:	**6.53**
S3:	**0.82**
TOC	**3.39**
HI:	**192.6**
OI:	**24.18**
PI:	**0.186**
PC:	**0.658**
S2/S3:	**7.96**

C15+ Composition

EOM ppm:	**9057**
HC ppm:	**1381**
mgHC/gTOC	**40.7**
% Sat:	**21.4**
% Aro:	**6.4**
% NSO:	**72.3**
% Asph:	**0.0**
Sats/Aro	**3.36**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-26.32**
C15+ Aromatic:	**-25.42**
kerogen:	**-24.26**
Canonical Variable	**-1.49**

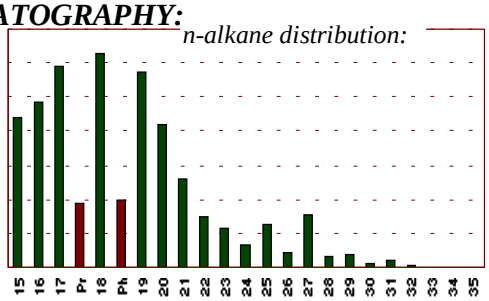
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

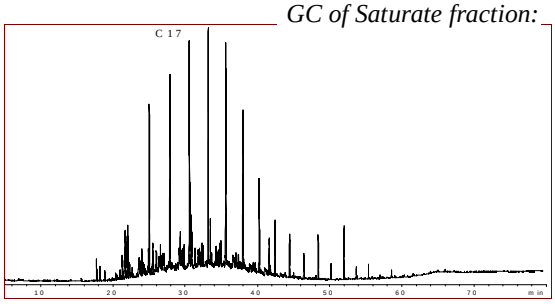
GAS CHROMATOGRAPHY:

Pr/Ph:	**0.94**
Pr/n-C17:	**0.31**
Ph/n-C18:	**0.31**
n-C27/n-C17:	**0.26**
CPI 1:	**1.97**

n-alkane distribution:



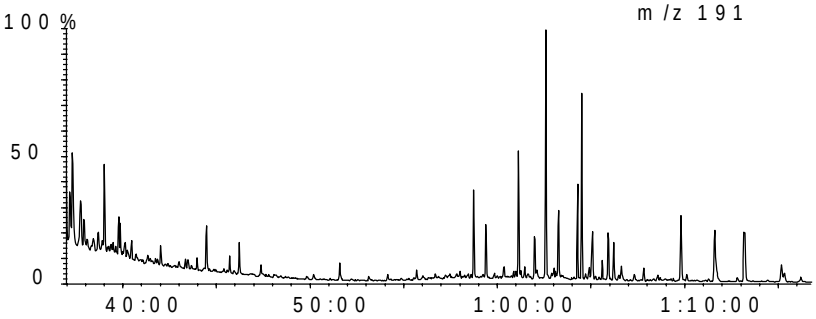
GC of Saturate fraction:



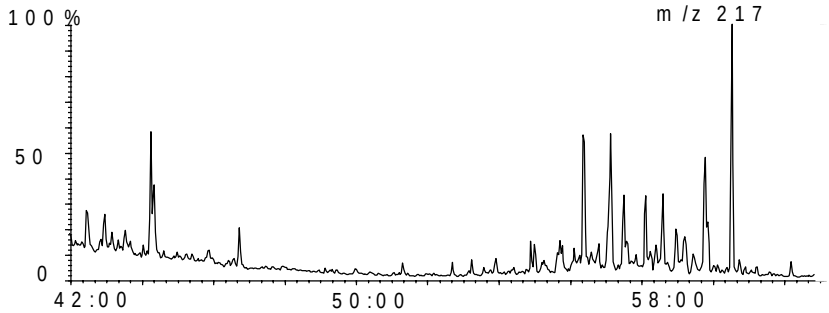
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.41**
C22/C21=	**0.65**
C24/C23=	**0.34**
C26/C25=	**0.38**
Tet/C23=	**0.50**
C27T/C27=	**0.02**
C28/H=	**0.04**
C29/H=	**0.51**
C30X/H=	**0.04**
Ol/H=	**0.00**
C31R/H=	**0.75**
GA/C31R=	**0.06**
C35S/C34S=	**19.71**
Ster/Terp=	**0.43**
Rearr/Reg=	**0.44**
%C27=	**11.83**
%C28=	**11.24**
%C29=	**76.92**
C29 20S/R=	**0.05**
Ts/Tm=	**0.06**
C29D/H=	**0.05**
DM/H=	**0.00**

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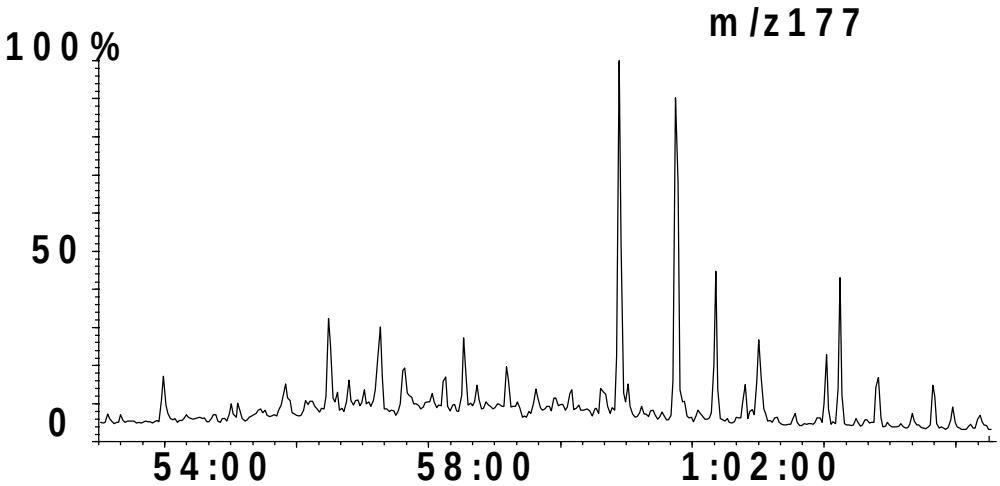
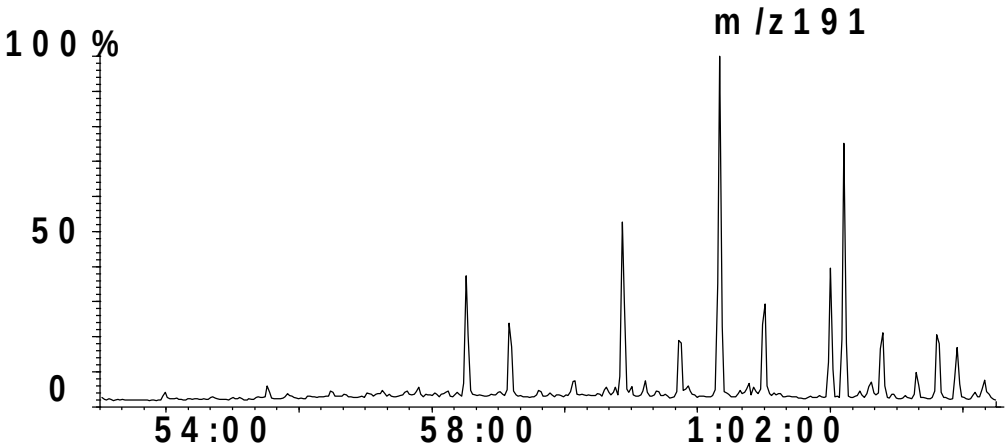
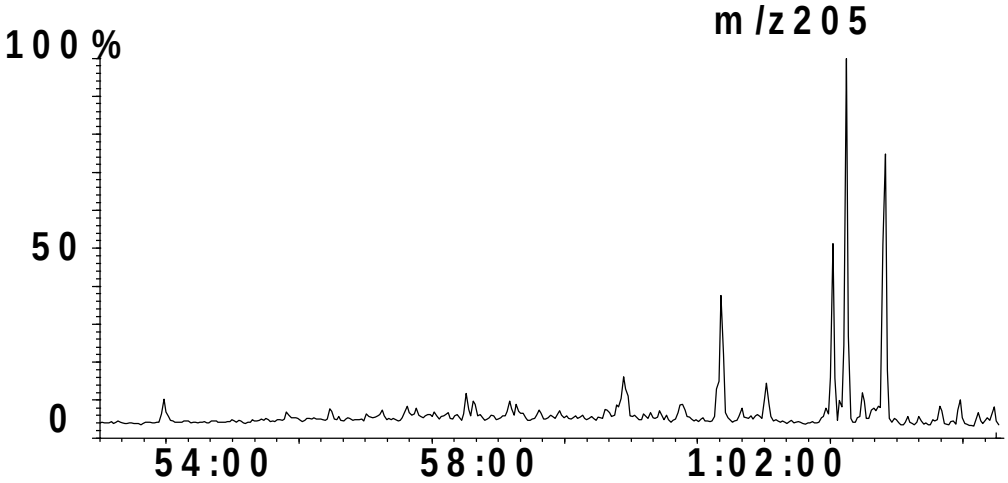
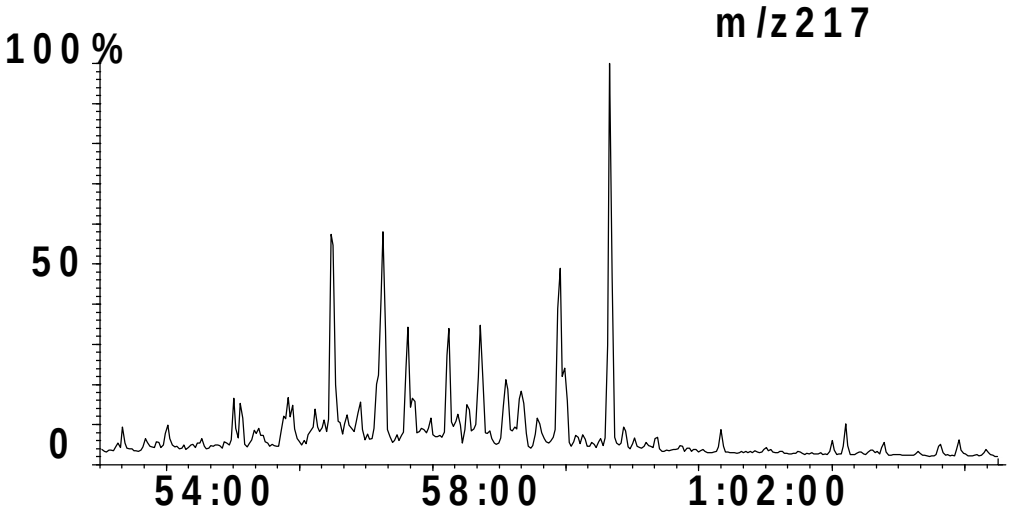
Country: **Australia**	Depth: **1581.91-1584.96m**	05-Jun-98
Basin: **Browse**	Age: **267** **(Ma)**	Sample ID: **9373**
Well: **Rob Roy 1**	Formation:	Lat: **-13.971**
Test:		Long: **124.199194**

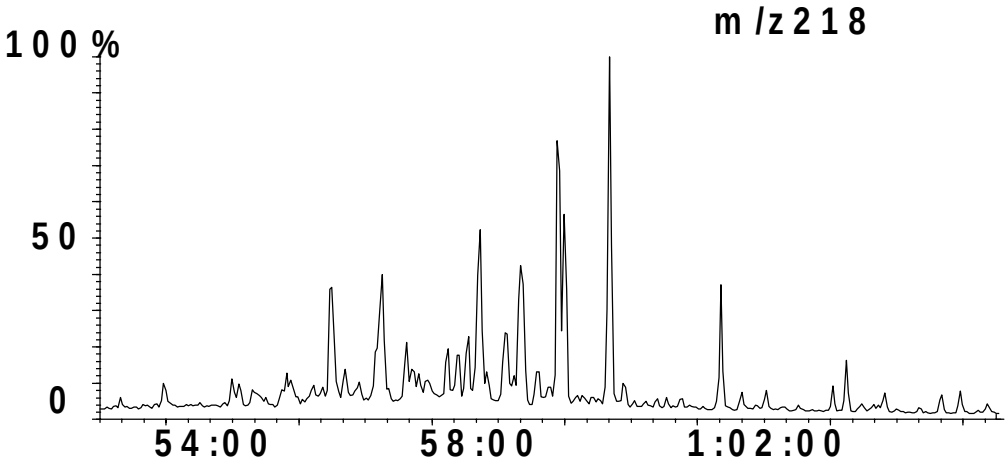


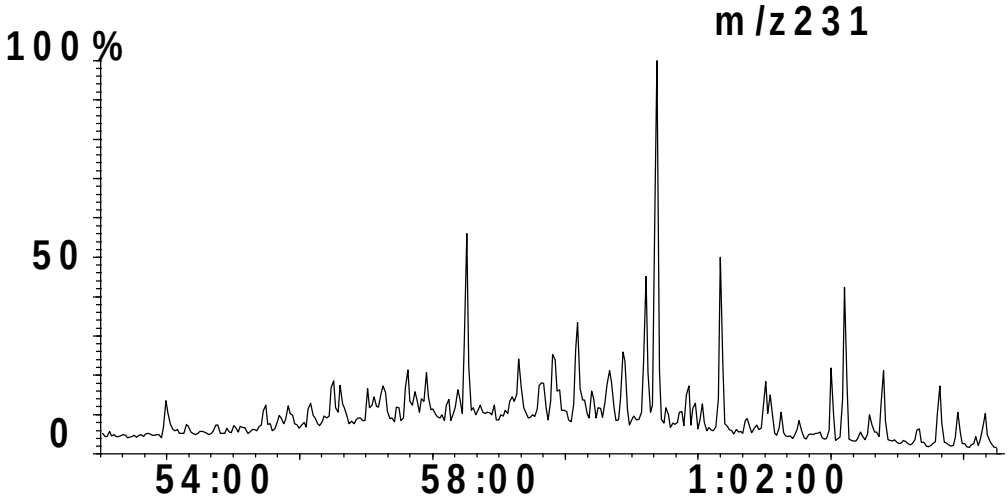




Country: **Australia**	Depth: **1581.91-1584.96m**	05-Jun-98
Basin: **Browse**	Age: **267** **(Ma)**	Sample ID: **9373**
Well: **Rob Roy 1**	Formation:	Lat: **-13.971**
Test:		Long: **124.199194**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Yampi 1**
Test:

Depth: **3265-3270m**
Age: **166** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9375**
Lat: **-14.558889**
Long: **123.276078**

BULK PROPERTIES:

Rock Eval:

Tmax	**445**
S1:	**0.39**
S2:	**2**
S3:	**0.23**
TOC	**1.95**
HI:	**102.5**
OI:	**11.79**
PI:	**0.163**
PC:	**0.195**
S2/S3:	**8.70**

C15+ Composition

EOM ppm:	**3040**
HC ppm:	**1097**
mgHC/gTOC	**56.3**
% Sat:	**23.0**
% Aro:	**20.7**
% NSO:	**56.3**
% Asph:	**0.0**
Sats/Aro	**1.11**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

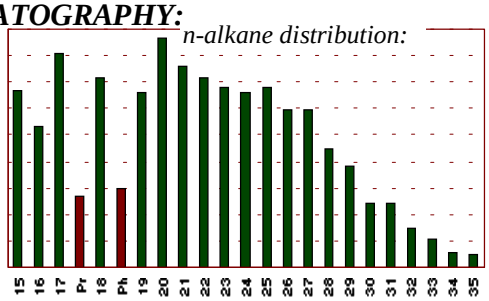
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

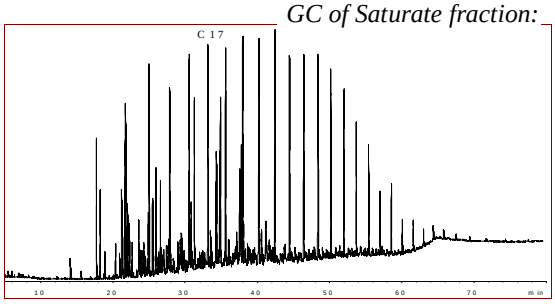
GAS CHROMATOGRAPHY:

Pr/Ph:	**0.90**
Pr/n-C17:	**0.33**
Ph/n-C18:	**0.41**
n-C27/n-C17:	**0.73**
CPI 1:	**1.07**

n-alkane distribution:



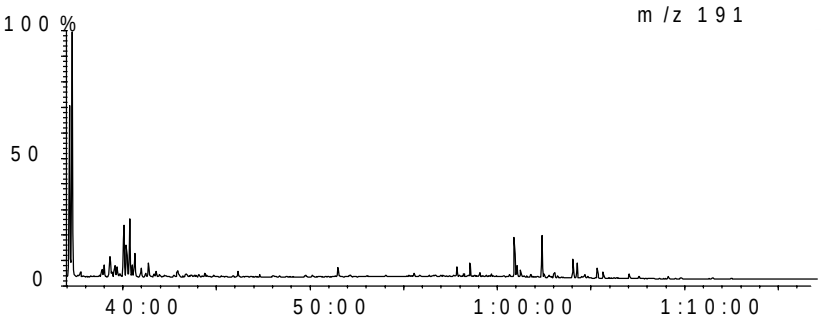
GC of Saturate fraction:



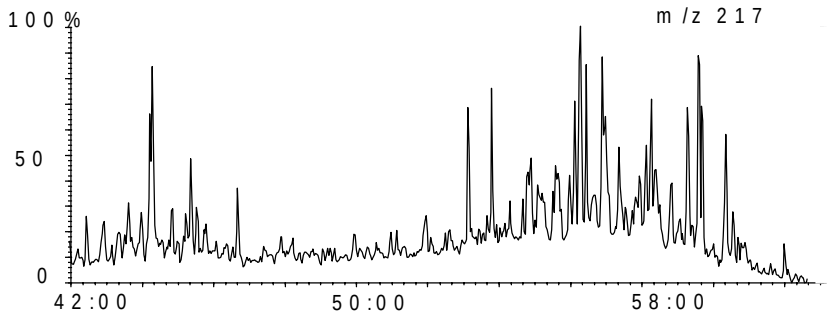
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.88**
C22/C21=	**0.70**
C24/C23=	**0.38**
C26/C25=	**0.79**
Tet/C23=	**1.40**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**0.95**
C30X/H=	**0.17**
Ol/H=	**0.01**
C31R/H=	**0.35**
GA/C31R=	**0.21**
C35S/C34S=	**0.57**
Ster/Terp=	**0.52**
Rearr/Reg=	**0.85**
%C27=	**49.58**
%C28=	**14.80**
%C29=	**35.62**
C29 20S/R=	**1.10**
Ts/Tm=	**0.69**
C29D/H=	**0.27**
DM/H=	**0.00**

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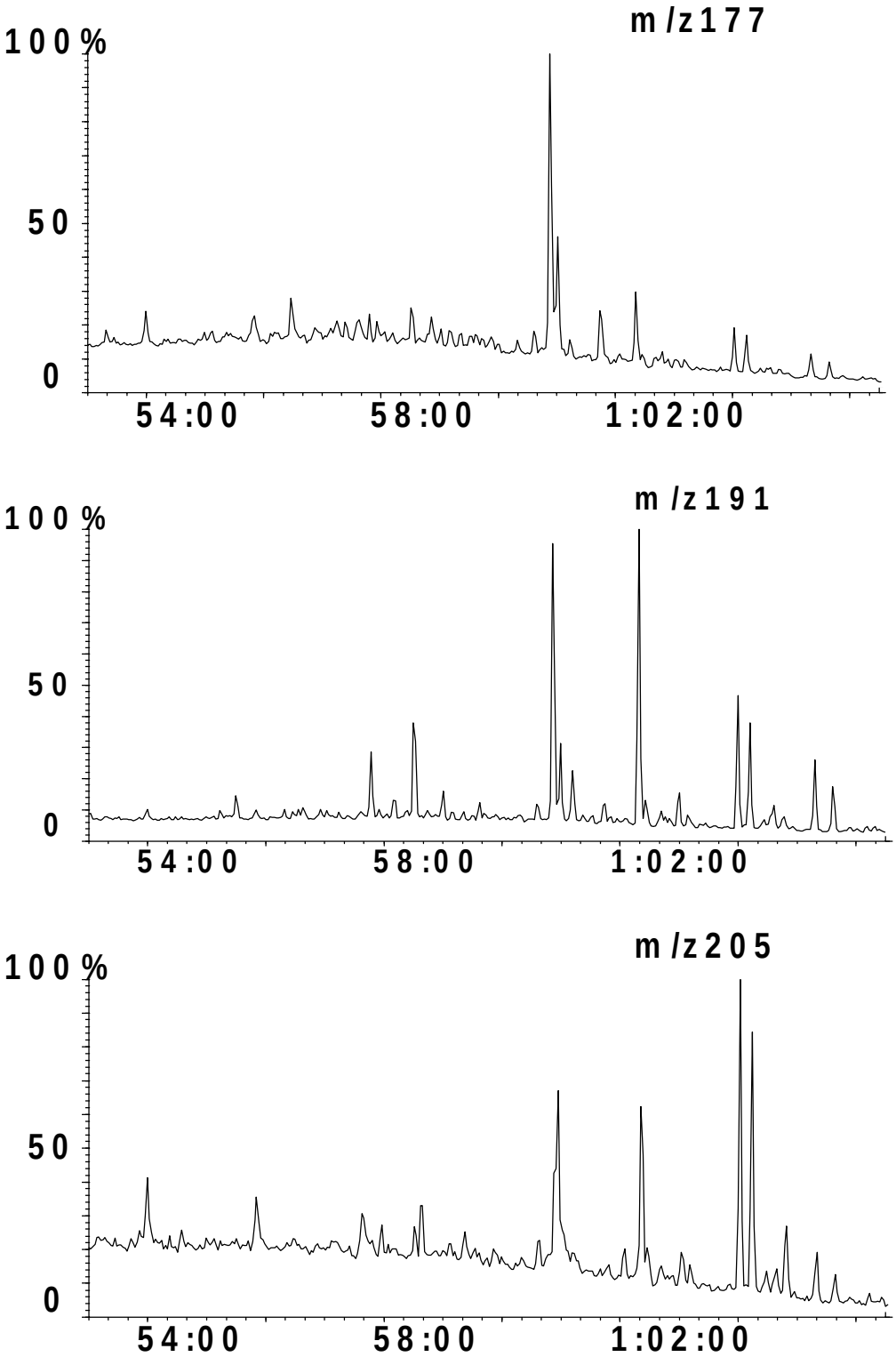
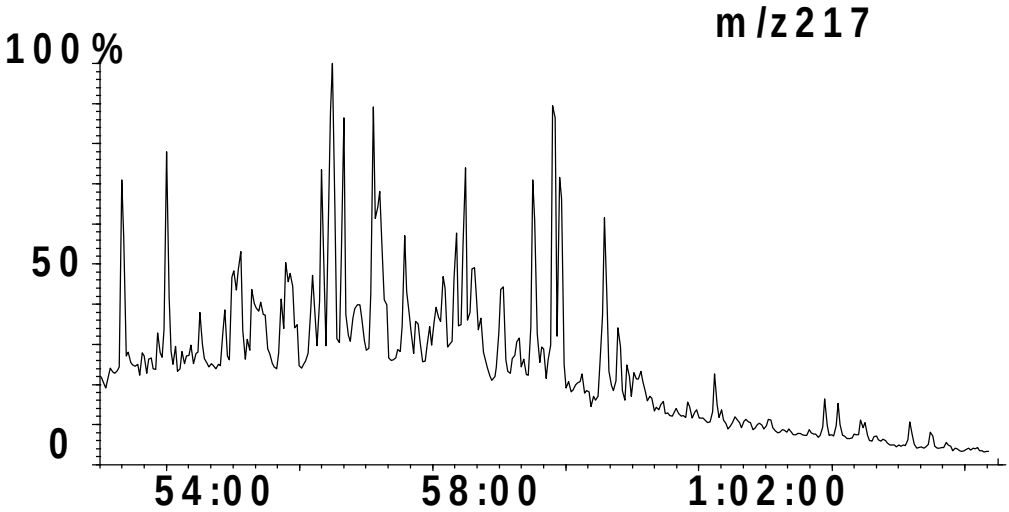
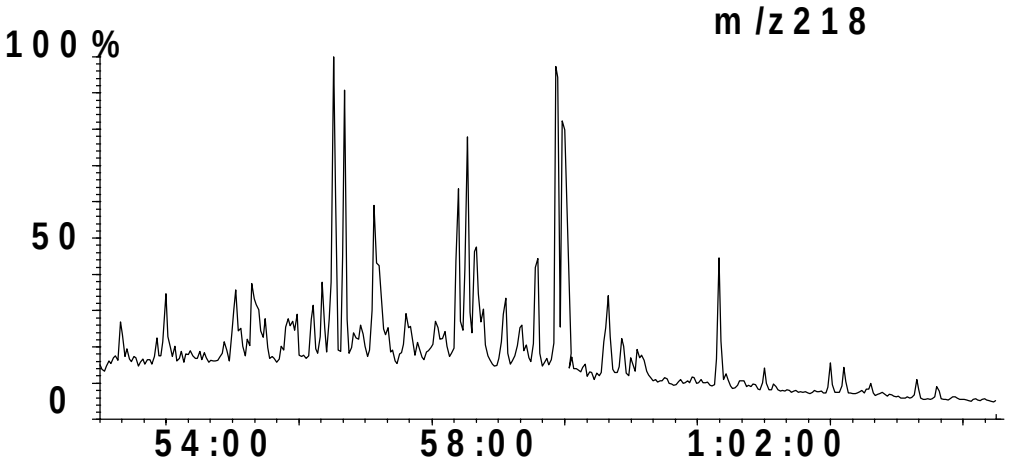
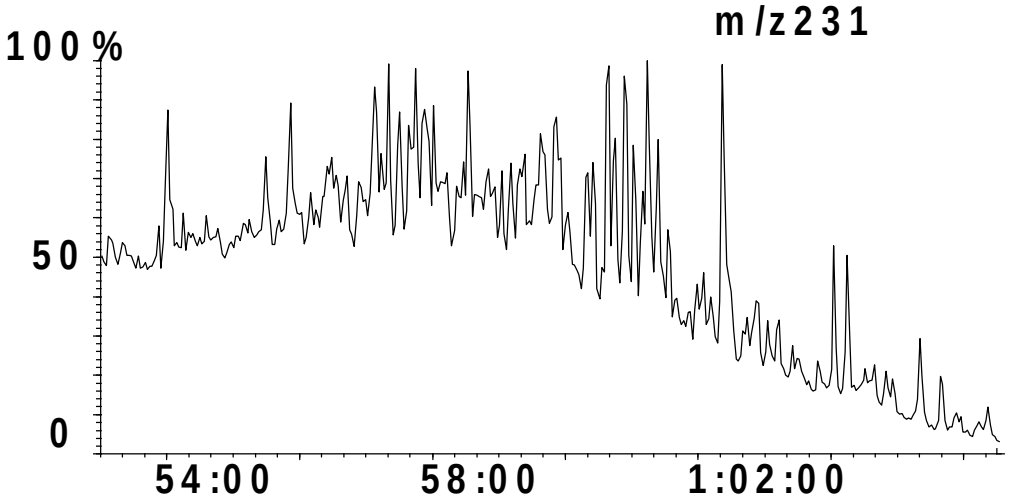
Country: **Australia**	Depth: **3265-3270m**	05-Jun-98
Basin: **Browse**	Age: **166** **(Ma)**	Sample ID: **9375**
Well: **Yampi 1**	Formation:	Lat: **-14.558889**
Test:		Long: **123.276078**



Country: **Australia**	Depth: **3265-3270m**	05-Jun-98
Basin: **Browse**	Age: **166** **(Ma)**	Sample ID: **9375**
Well: **Yampi 1**	Formation:	Lat: **-14.558889**
Test:		Long: **123.276078**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Caswell 1**
Test:

Depth: **3685-3690m**
Age: **109** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9376**
Lat: **-14.241543**
Long: **122.4675**

BULK PROPERTIES:

Rock Eval:

Tmax	**437**
S1:	**4.54**
S2:	**1.41**
S3:	**1.93**
TOC	**1.18**
HI:	**119.4**
OI:	**163.5**
PI:	**0.763**
PC:	**0.487**
S2/S3:	**0.73**

C15+ Composition

EOM ppm:	**6086**
HC ppm:	**4152**
mgHC/gTOC	**351.8**
% Sat:	**64.6**
% Aro:	**11.8**
% NSO:	**23.7**
% Asph:	**0.0**
Sats/Aro	**5.49**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

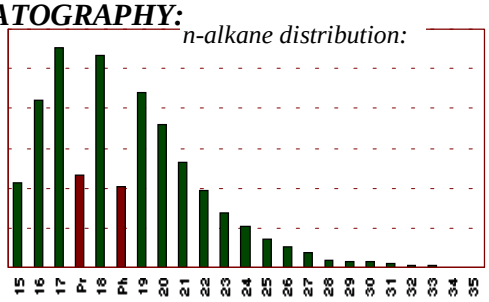
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

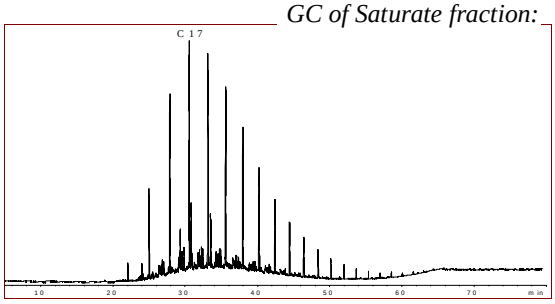
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.14**
Pr/n-C17:	**0.42**
Ph/n-C18:	**0.38**
n-C27/n-C17:	**0.07**
CPI 1:	**0.93**

n-alkane distribution:



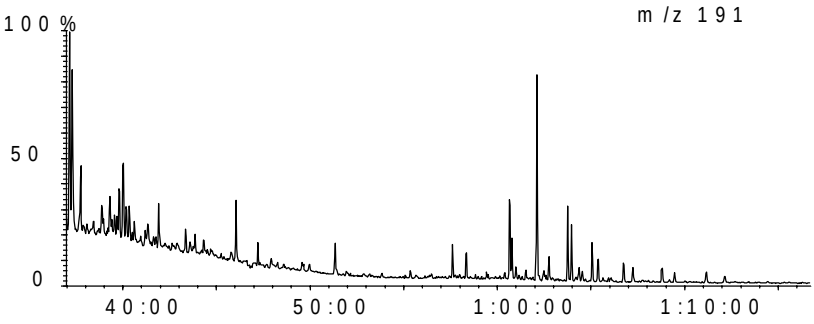
GC of Saturate fraction:



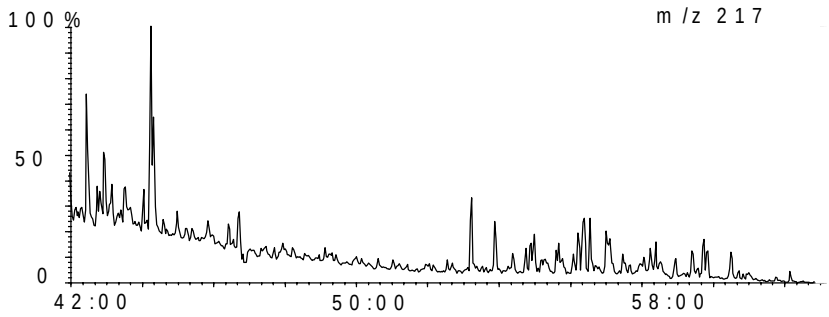
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.08**
C22/C21=	**0.42**
C24/C23=	**0.34**
C26/C25=	**0.55**
Tet/C23=	**0.44**
C27T/C27=	**0.03**
C28/H=	**0.01**
C29/H=	**0.39**
C30X/H=	**0.06**
Ol/H=	**0.01**
C31R/H=	**0.27**
GA/C31R=	**0.23**
C35S/C34S=	**0.78**
Ster/Terp=	**0.50**
Rearr/Reg=	**1.90**
%C27=	**50.05**
%C28=	**18.30**
%C29=	**31.64**
C29 20S/R=	**0.94**
Ts/Tm=	**1.32**
C29D/H=	**0.52**
DM/H=	**0.00**

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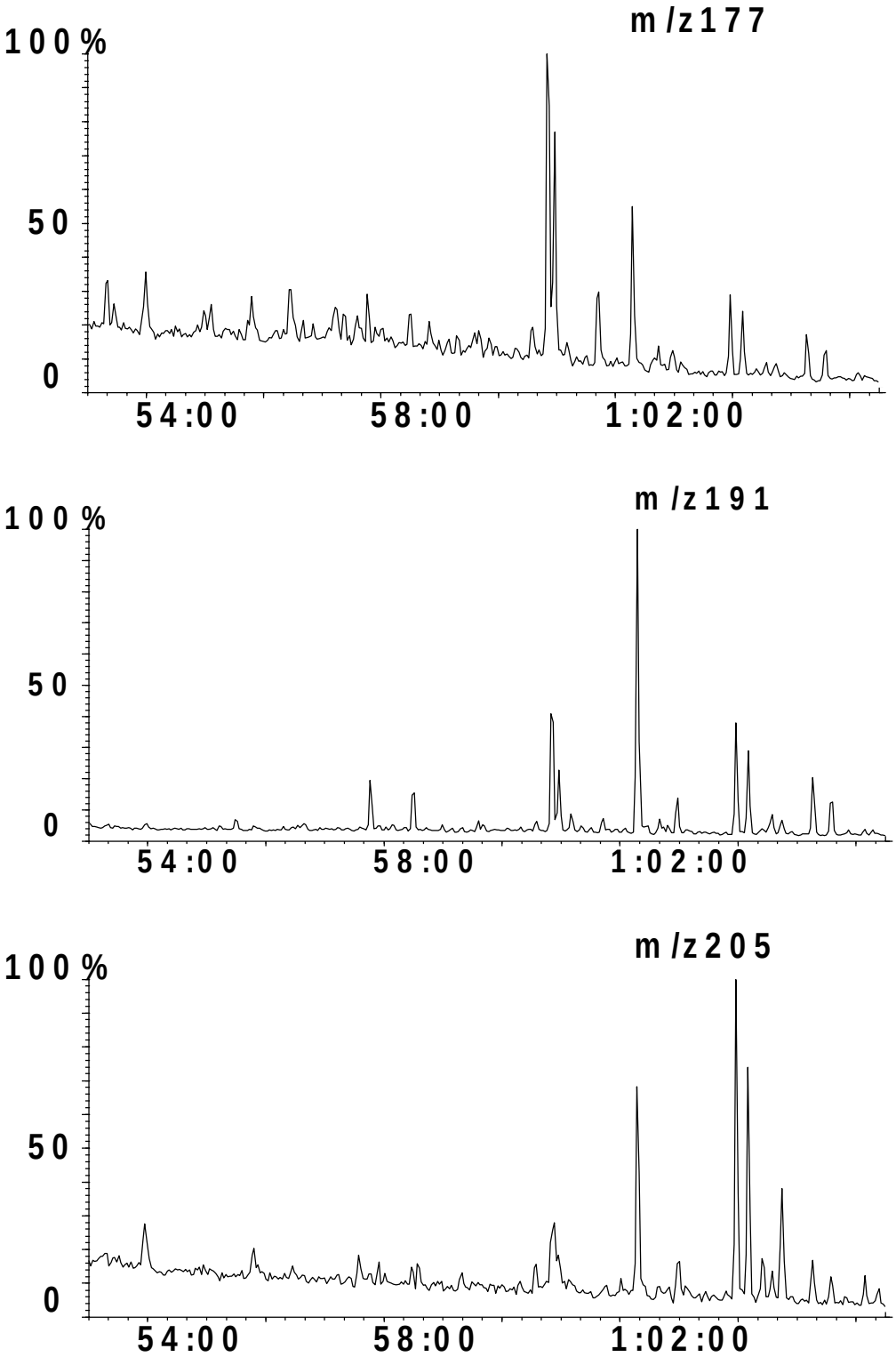
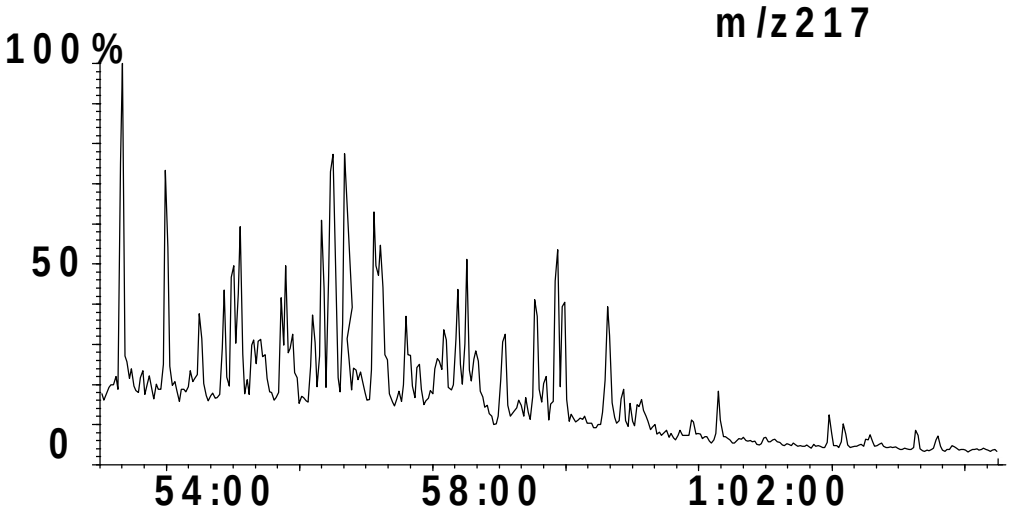
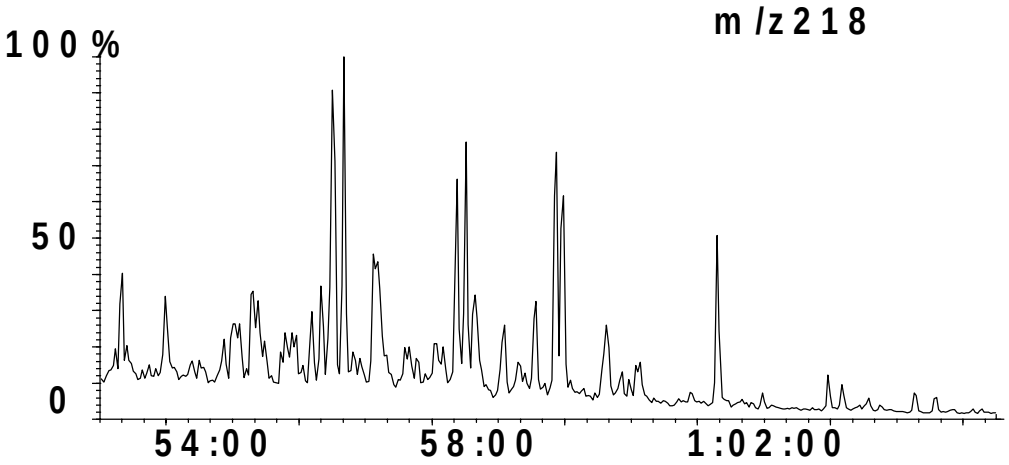
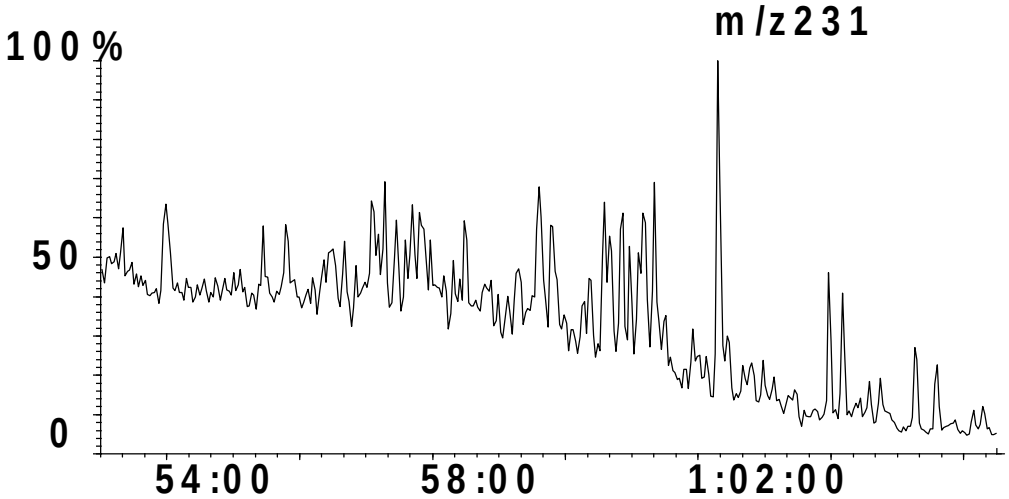
Country: **Australia**	Depth: **3685-3690m**	05-Jun-98
Basin: **Browse**	Age: **109** **(Ma)**	Sample ID: **9376**
Well: **Caswell 1**	Formation:	Lat: **-14.241543**
Test:		Long: **122.4675**



Country: **Australia**	Depth: **3685-3690m**	05-Jun-98
Basin: **Browse**	Age: **109** **(Ma)**	Sample ID: **9376**
Well: **Caswell 1**	Formation:	Lat: **-14.241543**
Test:		Long: **122.4675**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Caswell 1**
Test:

Depth: **4080-4085m**
Age: **124** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9377**
Lat: **-14.241543**
Long: **122.4675**

BULK PROPERTIES:

Rock Eval:

Tmax	**443**
S1:	**3.66**
S2:	**1.91**
S3:	**2.61**
TOC	**1.91**
HI:	**100**
OI:	**136.6**
PI:	**0.657**
PC:	**0.456**
S2/S3:	**0.73**

C15+ Composition

EOM ppm:	**5747**
HC ppm:	**3947**
mgHC/gTOC	**206.6**
% Sat:	**68.5**
% Aro:	**9.7**
% NSO:	**21.8**
% Asph:	**0.0**
Sats/Aro	**7.07**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

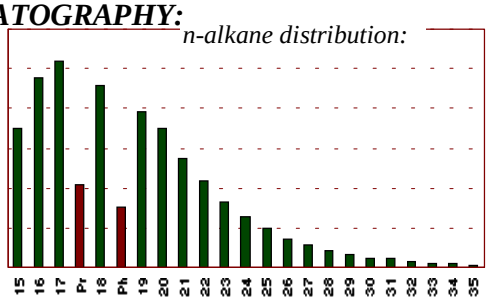
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

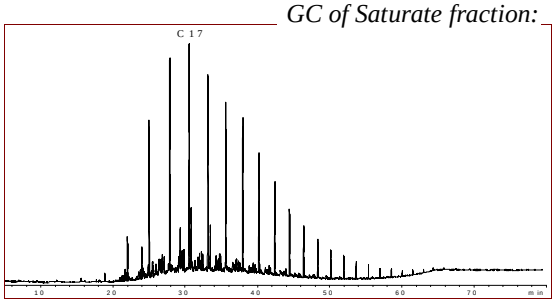
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.37**
Pr/n-C17:	**0.40**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.11**
CPI 1:	**0.98**

n-alkane distribution:



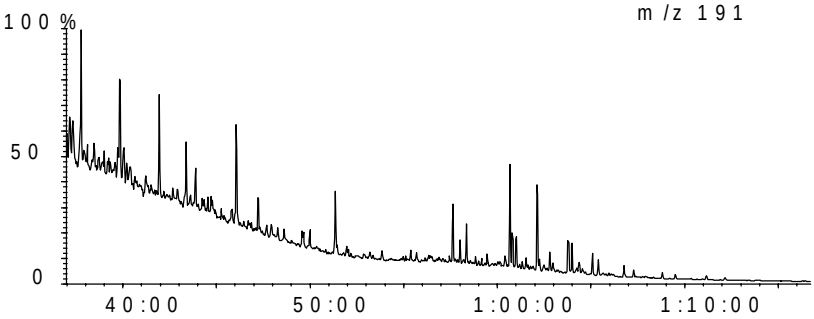
GC of Saturate fraction:



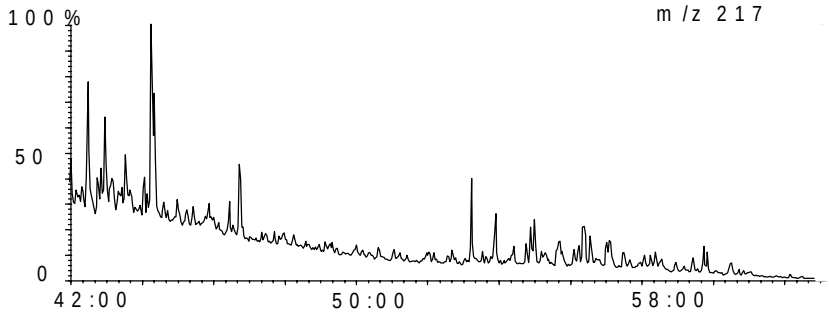
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**1.35**
C22/C21=	**0.39**
C24/C23=	**0.34**
C26/C25=	**0.49**
Tet/C23=	**0.55**
C27T/C27=	**0.01**
C28/H=	**0.04**
C29/H=	**1.22**
C30X/H=	**0.36**
Ol/H=	**0.03**
C31R/H=	**0.35**
GA/C31R=	**0.35**
C35S/C34S=	**0.81**
Ster/Terp=	**0.38**
Rearr/Reg=	**4.32**
%C27=	**59.73**
%C28=	**12.30**
%C29=	**27.97**
C29 20S/R=	**1.06**
Ts/Tm=	**1.50**
C29D/H=	**0.33**
DM/H=	**0.00**

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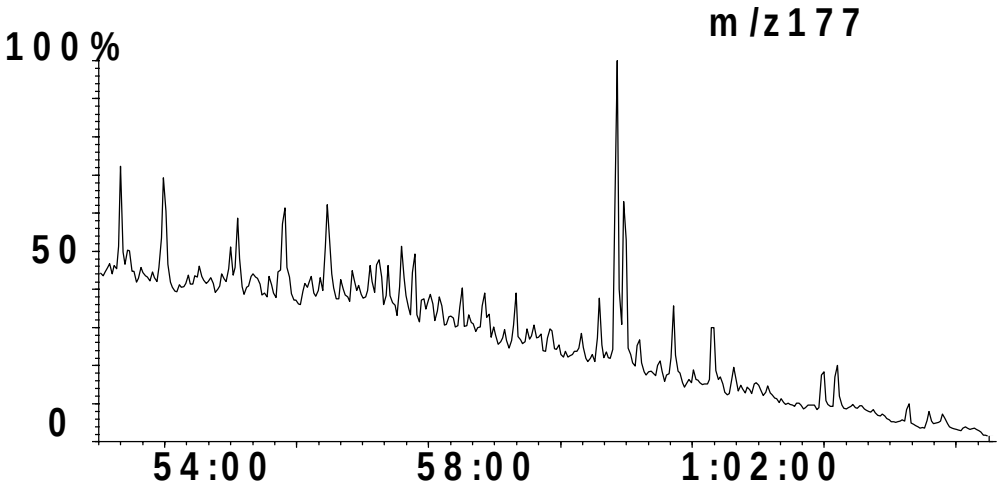
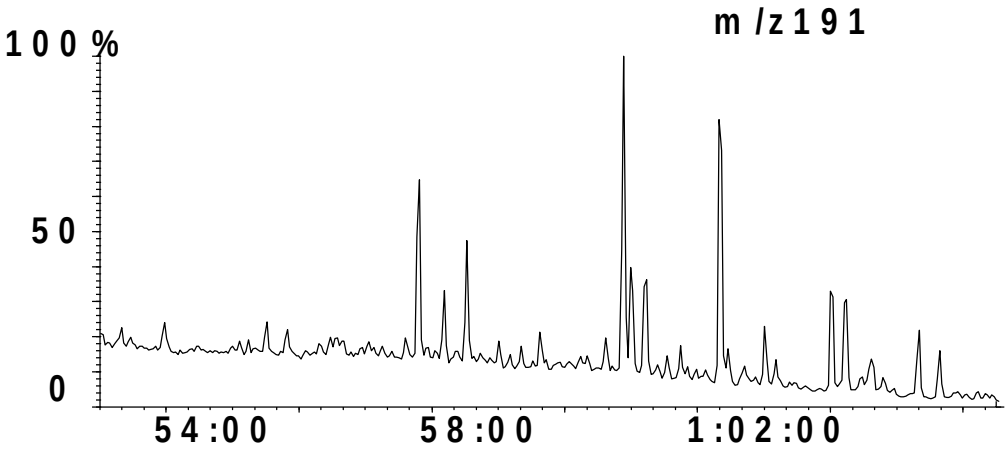
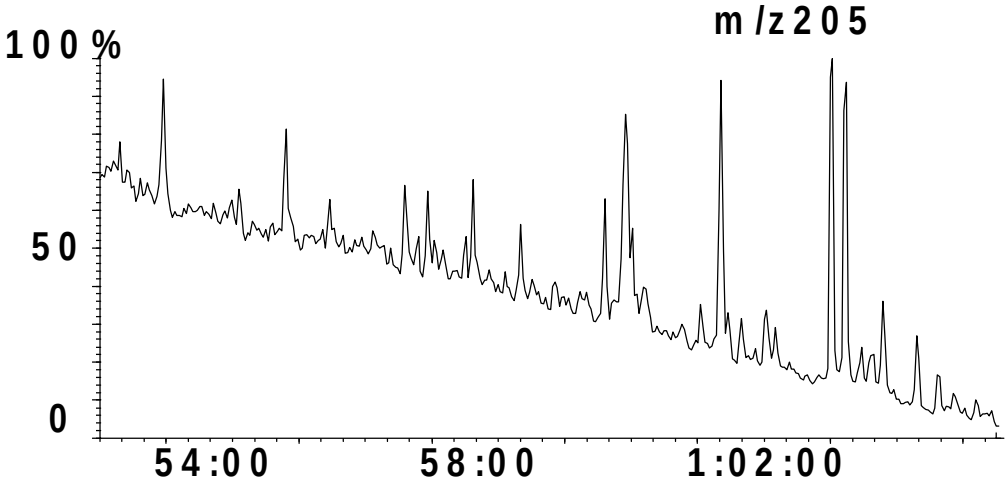
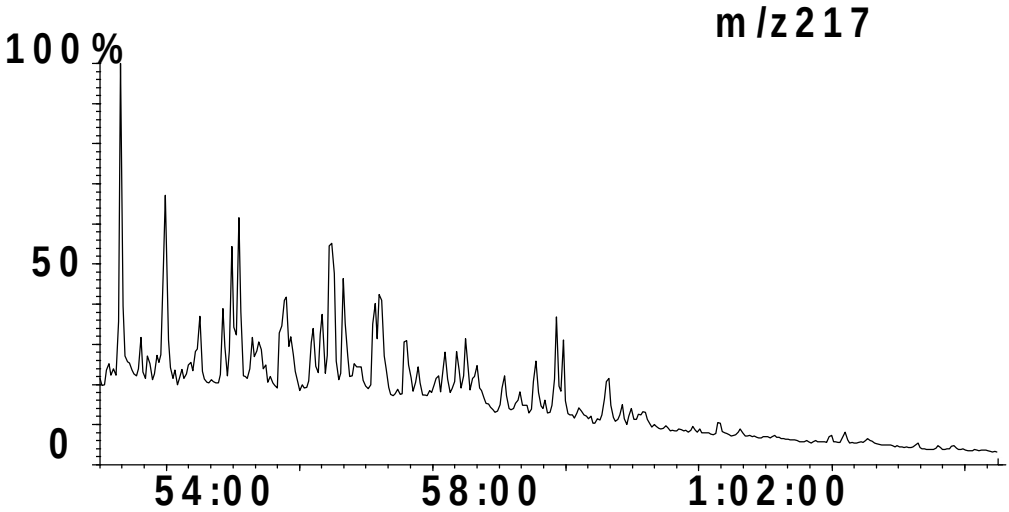
Country: **Australia**	Depth: **4080-4085m**	05-Jun-98
Basin: **Browse**	Age: **124** **(Ma)**	Sample ID: **9377**
Well: **Caswell 1**	Formation:	Lat: **-14.241543**
Test:		Long: **122.4675**

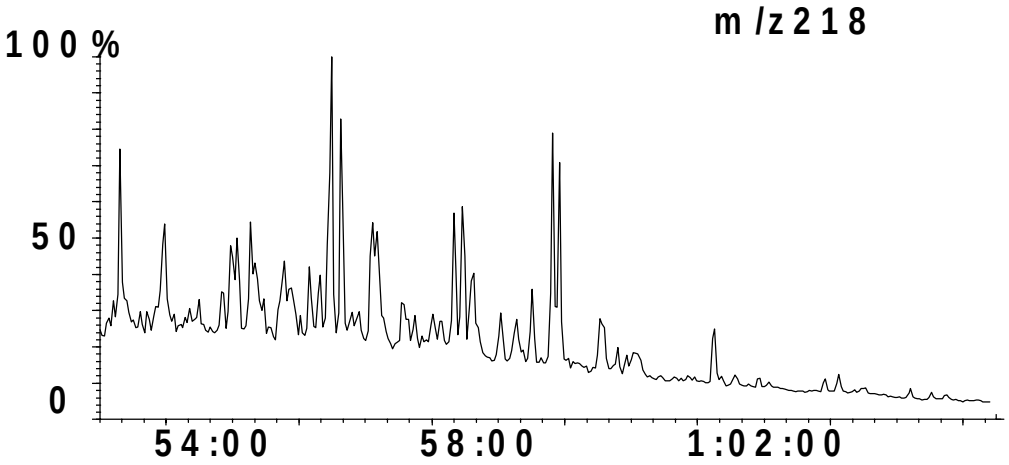


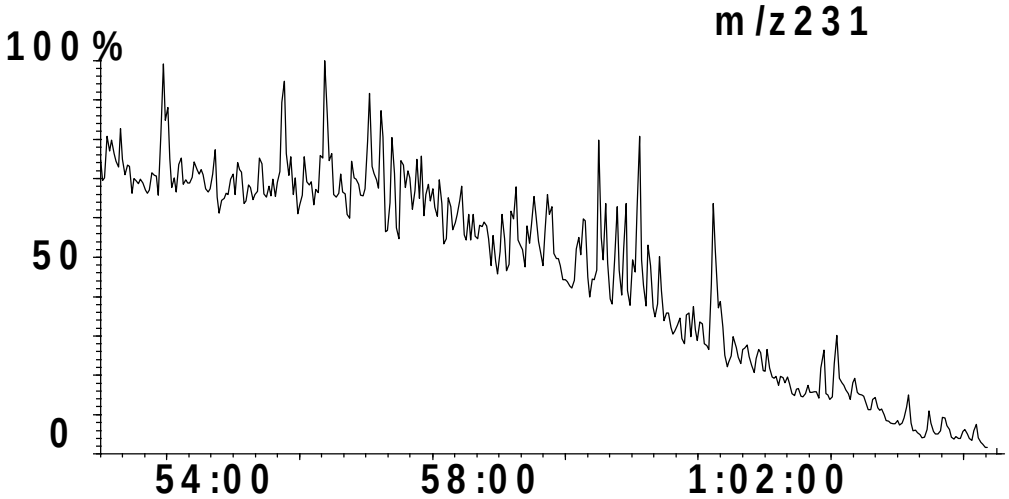




Country: **Australia**	Depth: **4080-4085m**	05-Jun-98
Basin: **Browse**	Age: **124** **(Ma)**	Sample ID: **9377**
Well: **Caswell 1**	Formation:	Lat: **-14.241543**
Test:		Long: **122.4675**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Discorbis 1**
Test:

Depth: **3939-3942m**
Age: **130.4** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9384**
Lat: **-12.882497**
Long: **123.812888**

BULK PROPERTIES:

Rock Eval:

Tmax	**437**
S1:	**0.78**
S2:	**2.78**
S3:	**8.28**
TOC	**2.25**
HI:	**123.5**
OI:	**368**
PI:	**0.219**
PC:	**0.291**
S2/S3:	**0.34**

C15+ Composition

EOM ppm:	**4079**
HC ppm:	**1538**
mgHC/gTOC	**68.3**
% Sat:	**29.8**
% Aro:	**16.8**
% NSO:	**53.3**
% Asph:	**0.0**
Sats/Aro	**1.77**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-28.87**
C15+ Aromatic:	**-27.72**
kerogen:	**-26.09**
Canonical Variable	**-0.15**

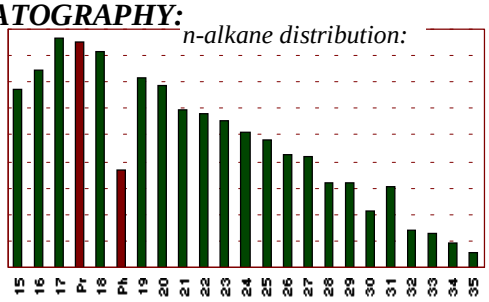
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

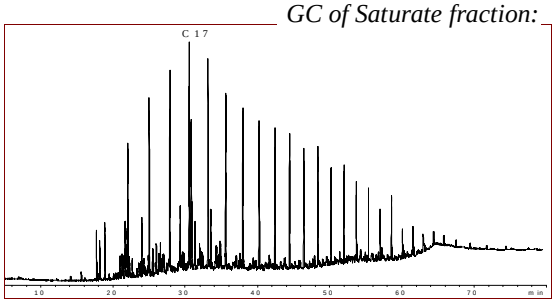
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.33**
Pr/n-C17:	**0.99**
Ph/n-C18:	**0.45**
n-C27/n-C17:	**0.48**
CPI 1:	**1.07**

n-alkane distribution:



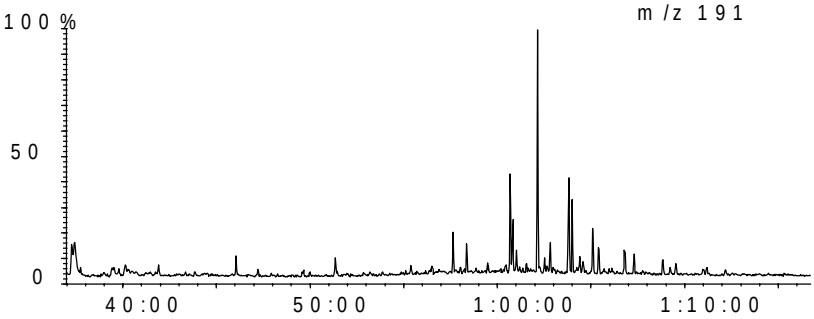
GC of Saturate fraction:



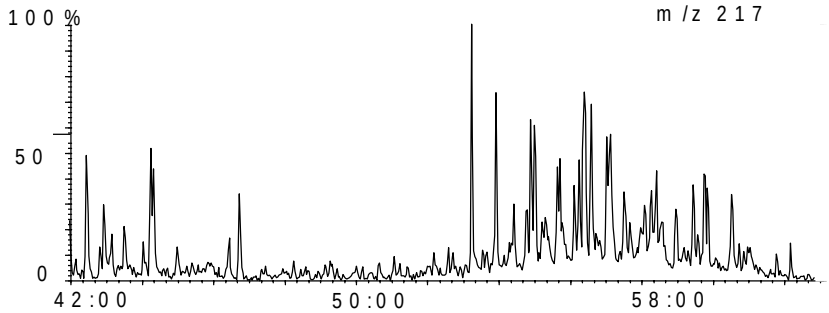
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.41**
C22/C21=	**0.40**
C24/C23=	**0.39**
C26/C25=	**0.73**
Tet/C23=	**0.70**
C27T/C27=	**0.02**
C28/H=	**0.00**
C29/H=	**0.40**
C30X/H=	**0.09**
Ol/H=	**0.01**
C31R/H=	**0.30**
GA/C31R=	**0.23**
C35S/C34S=	**0.51**
Ster/Terp=	**0.43**
Rearr/Reg=	**2.15**
%C27=	**53.45**
%C28=	**12.50**
%C29=	**34.04**
C29 20S/R=	**1.02**
Ts/Tm=	**1.41**
C29D/H=	**0.54**
DM/H=	**0.00**

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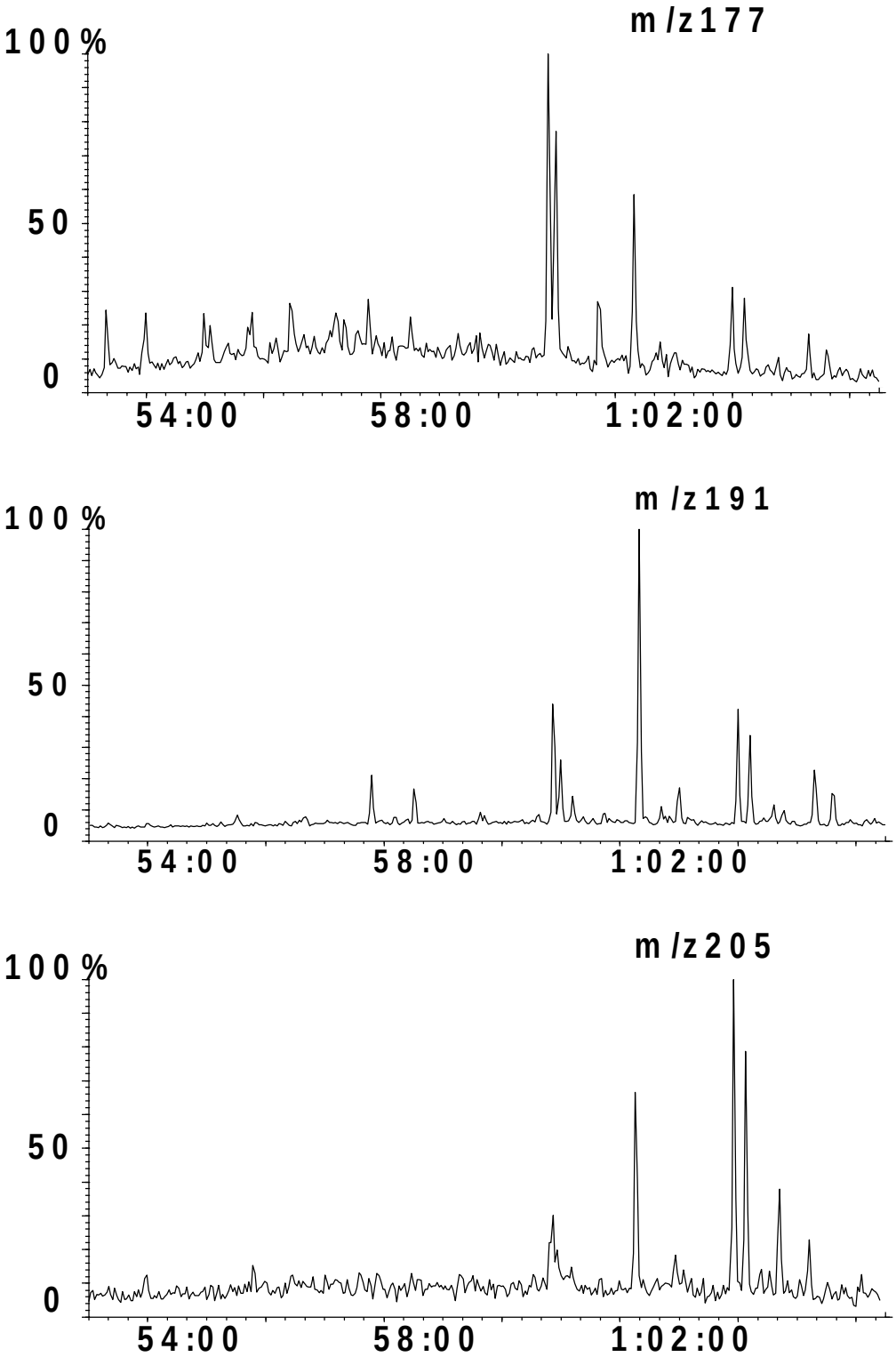
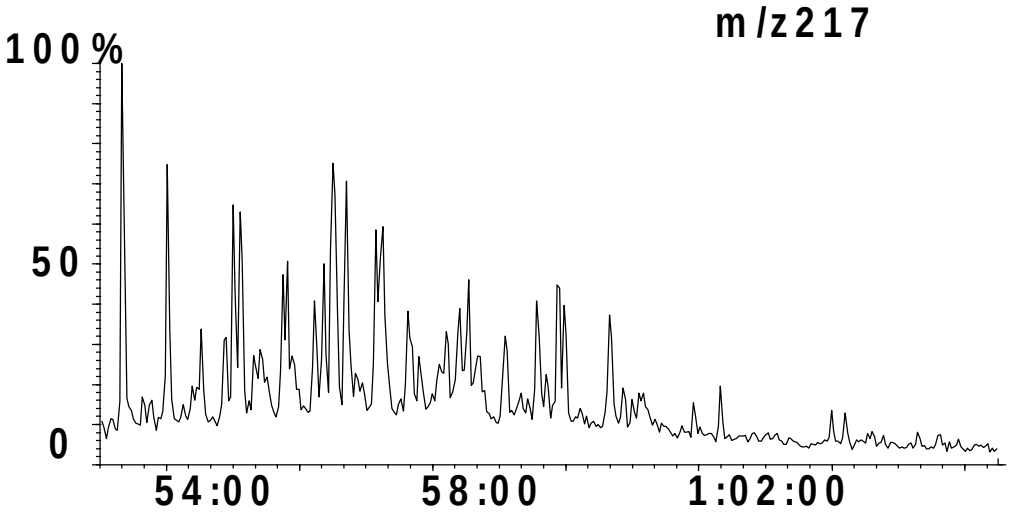
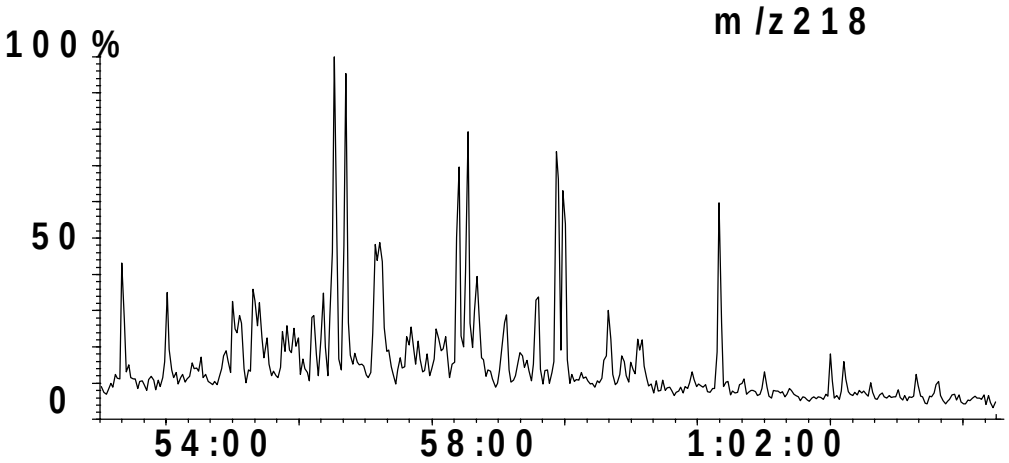
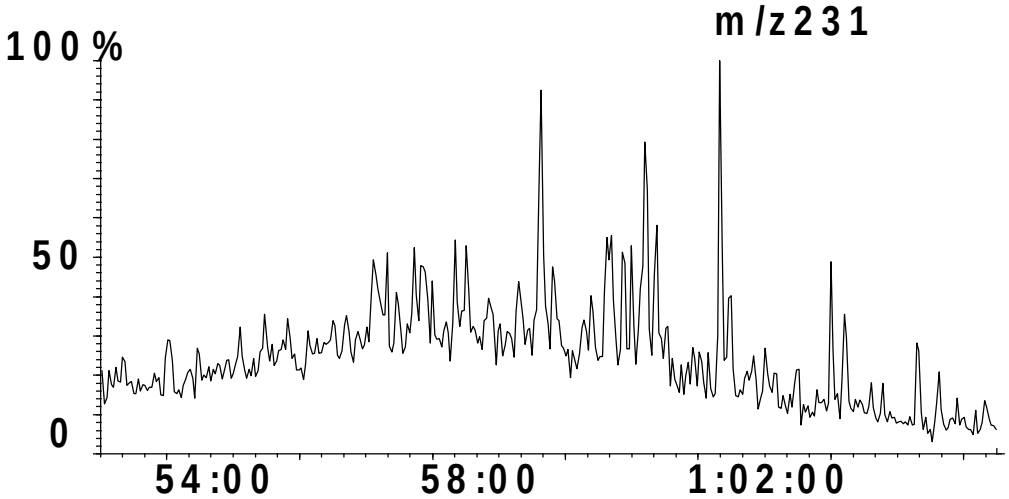
Country: **Australia**	Depth: **3939-3942m**	05-Jun-98
Basin: **Browse**	Age: **130.4** **(Ma)**	Sample ID: **9384**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**



Country: **Australia**	Depth: **3939-3942m**	05-Jun-98
Basin: **Browse**	Age: **130.4** **(Ma)**	Sample ID: **9384**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Buccaneer 1**
Test:

Depth: **3273-3276m**
Age: **166** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9385**
Lat: **-13.662403**
Long: **123.95575**

BULK PROPERTIES:

Rock Eval:

Tmax	**446**
S1:	**1.35**
S2:	**9.29**
S3:	**11.4**
TOC	**7.56**
HI:	**122.8**
OI:	**150.7**
PI:	**0.126**
PC:	**0.872**
S2/S3:	**0.81**

C15+ Composition

EOM ppm:	**9153**
HC ppm:	**2021**
mgHC/gTOC	**26.7**
% Sat:	**12.2**
% Aro:	**23.8**
% NSO:	**64.0**
% Asph:	**0.0**
Sats/Aro	**0.51**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-23.04**
C15+ Aromatic:	**-22.74**
kerogen:	**-22.08**
Canonical Variable	**-3.84**

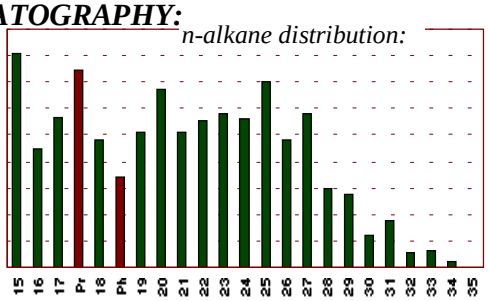
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

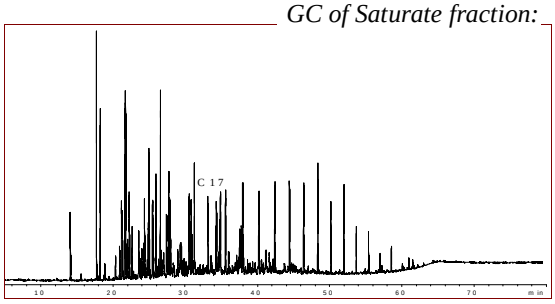
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.17**
Pr/n-C17:	**1.31**
Ph/n-C18:	**0.71**
n-C27/n-C17:	**1.03**
CPI 1:	**1.28**

n-alkane distribution:



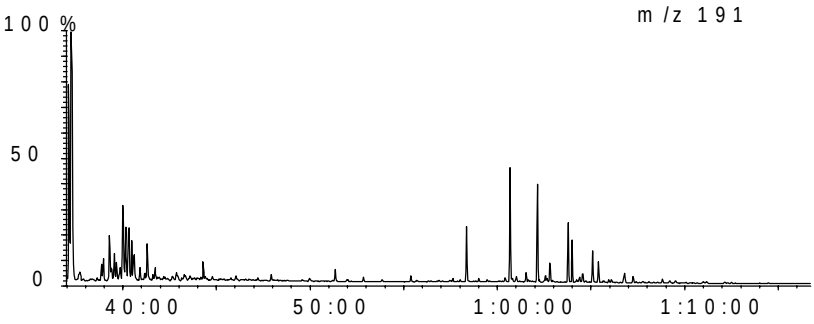
GC of Saturate fraction:



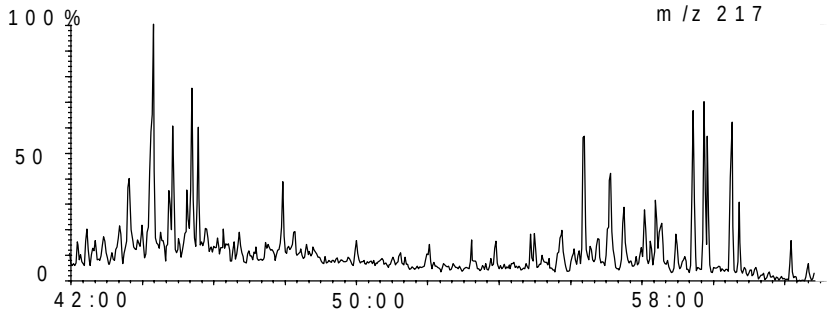
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**2.23**
C22/C21=	**0.77**
C24/C23=	**0.60**
C26/C25=	**0.41**
Tet/C23=	**2.97**
C27T/C27=	**0.01**
C28/H=	**0.01**
C29/H=	**1.17**
C30X/H=	**0.05**
Ol/H=	**0.00**
C31R/H=	**0.43**
GA/C31R=	**0.12**
C35S/C34S=	**0.36**
Ster/Terp=	**0.21**
Rearr/Reg=	**0.81**
%C27=	**16.56**
%C28=	**14.61**
%C29=	**68.83**
C29 20S/R=	**1.05**
Ts/Tm=	**0.06**
C29D/H=	**0.03**
DM/H=	**0.00**

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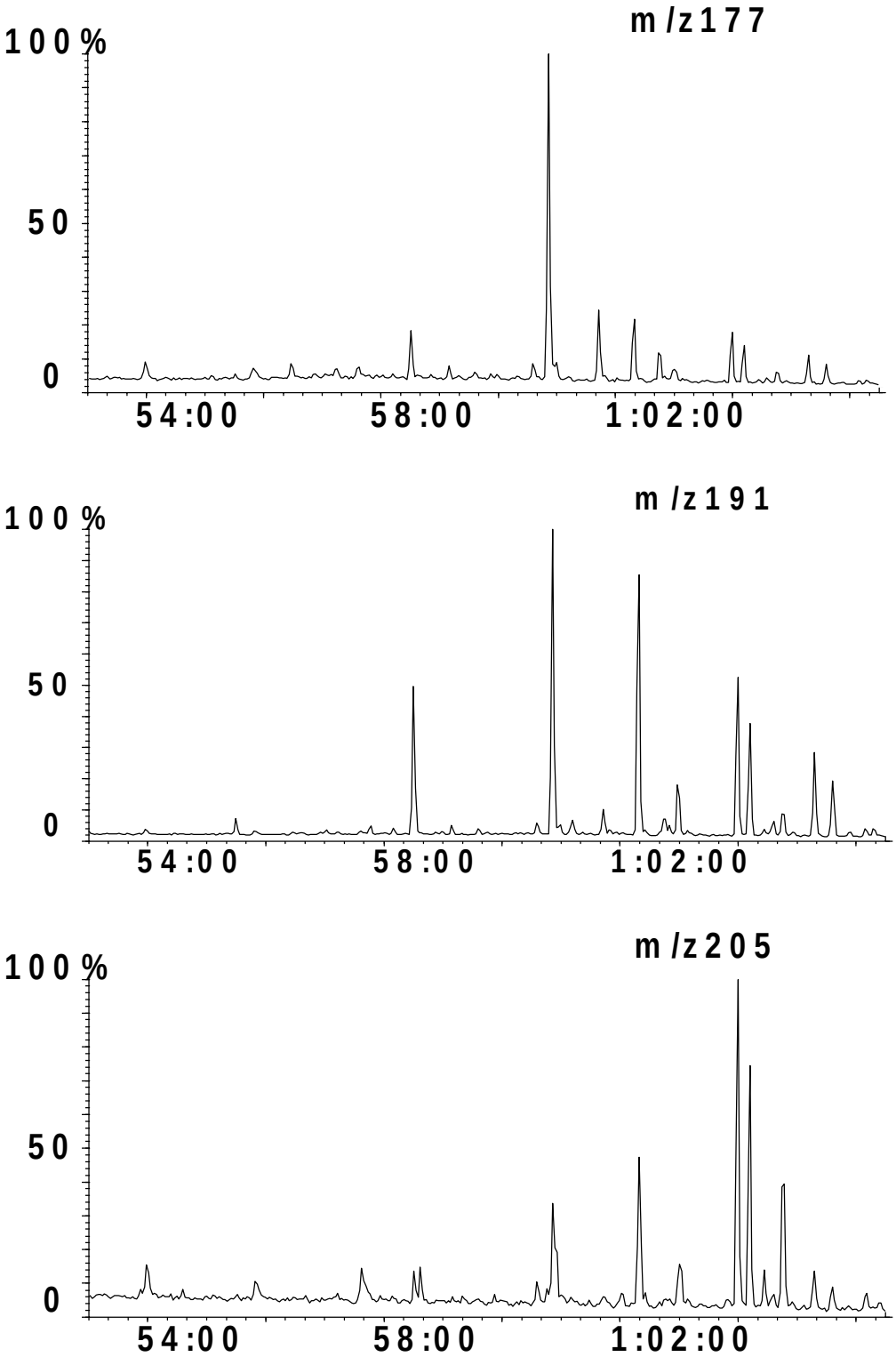
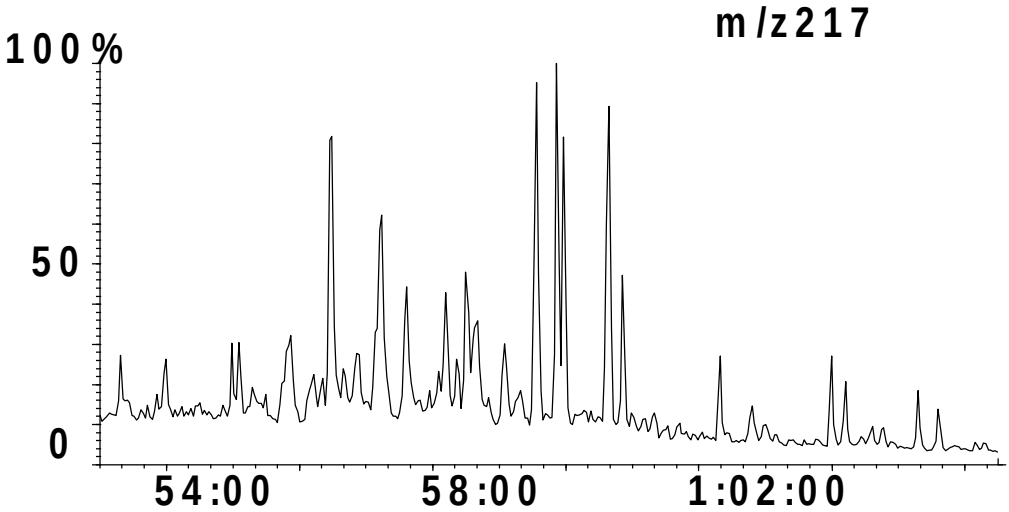
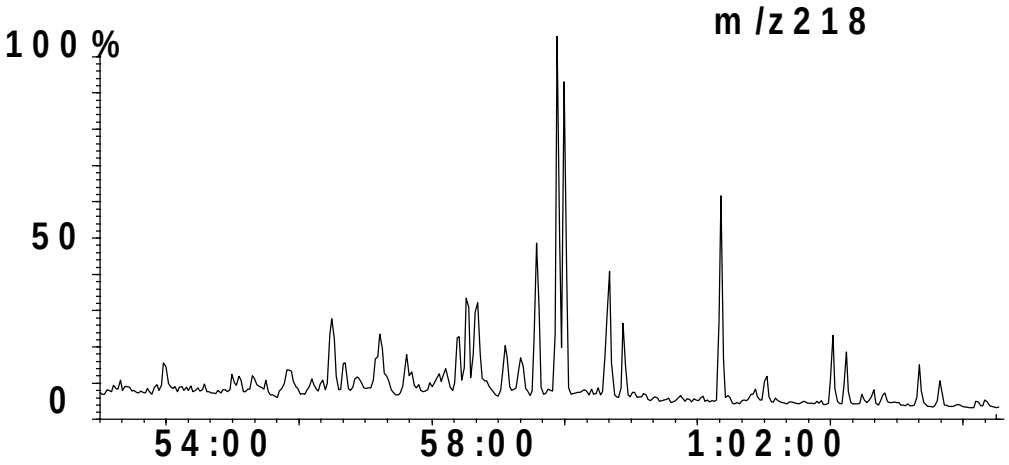
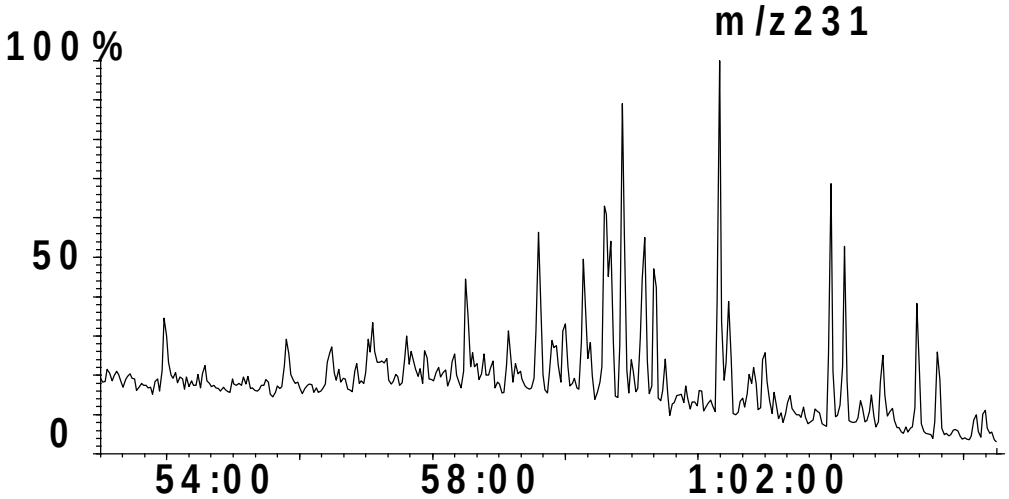
Country: **Australia**	Depth: **3273-3276m**	05-Jun-98
Basin: **Browse**	Age: **166** **(Ma)**	Sample ID: **9385**
Well: **Buccaneer 1**	Formation:	Lat: **-13.662403**
Test:		Long: **123.95575**



Country: **Australia**	Depth: **3273-3276m**	05-Jun-98
Basin: **Browse**	Age: **166** **(Ma)**	Sample ID: **9385**
Well: **Buccaneer 1**	Formation:	Lat: **-13.662403**
Test:		Long: **123.95575**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Brewster 1a**
Test:

Depth: **3770m**
Age: **132** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9405**
Lat: **-13.913706**
Long: **123.257844**

BULK PROPERTIES:

Rock Eval:

Tmax	**431**
S1:	**1.35**
S2:	**1.83**
S3:	**5.44**
TOC	**2.24**
HI:	**81.69**
OI:	**242.8**
PI:	**0.424**
PC:	**0.260**
S2/S3:	**0.34**

C15+ Composition

EOM ppm:	**3395**
HC ppm:	**1489**
mgHC/gTOC	**66.5**
% Sat:	**33.4**
% Aro:	**20.2**
% NSO:	**46.3**
% Asph:	**0.0**
Sats/Aro	**1.66**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:
C15+ Aromatic:
kerogen:
Canonical Variable

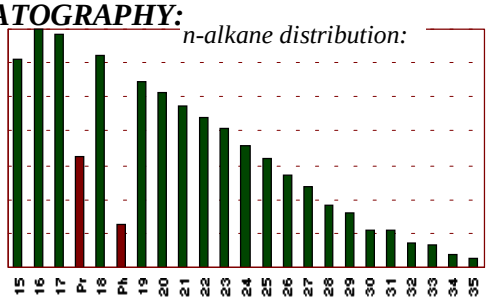
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

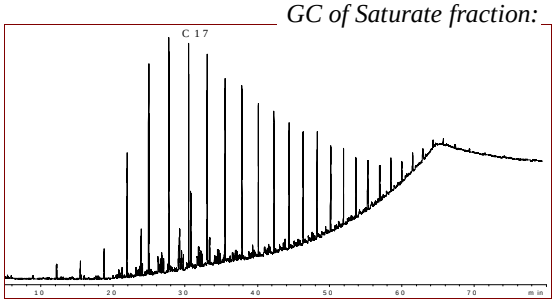
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.62**
Pr/n-C17:	**0.48**
Ph/n-C18:	**0.20**
n-C27/n-C17:	**0.35**
CPI 1:	**1.04**

n-alkane distribution:



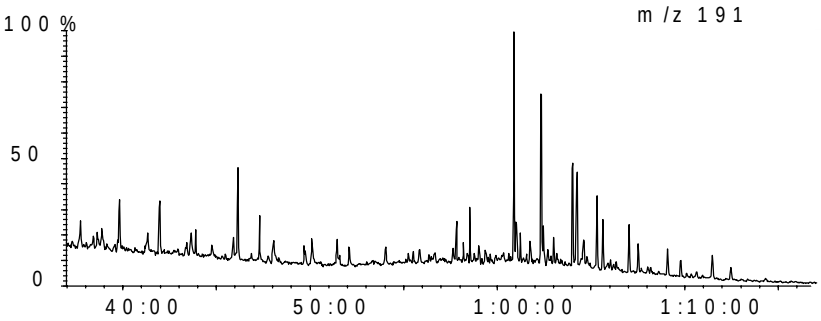
GC of Saturate fraction:



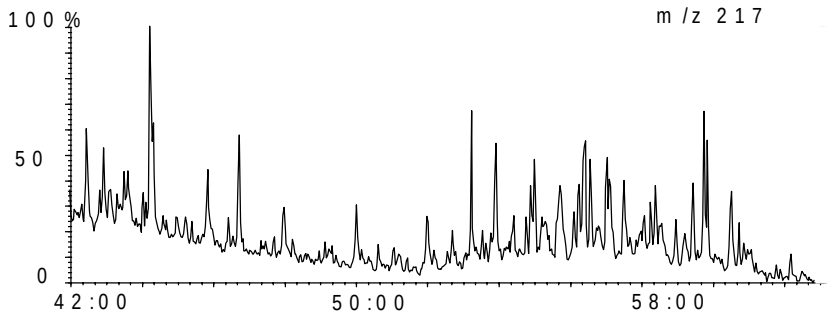
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.28**
C22/C21=	**0.49**
C24/C23=	**0.49**
C26/C25=	**0.50**
Tet/C23=	**0.27**
C27T/C27=	**0.01**
C28/H=	**0.02**
C29/H=	**1.37**
C30X/H=	**0.17**
Ol/H=	**0.01**
C31R/H=	**0.56**
GA/C31R=	**0.28**
C35S/C34S=	**0.90**
Ster/Terp=	**0.44**
Rearr/Reg=	**1.68**
%C27=	**45.68**
%C28=	**17.00**
%C29=	**37.32**
C29 20S/R=	**0.99**
Ts/Tm=	**0.73**
C29D/H=	**0.17**
DM/H=	**0.00**

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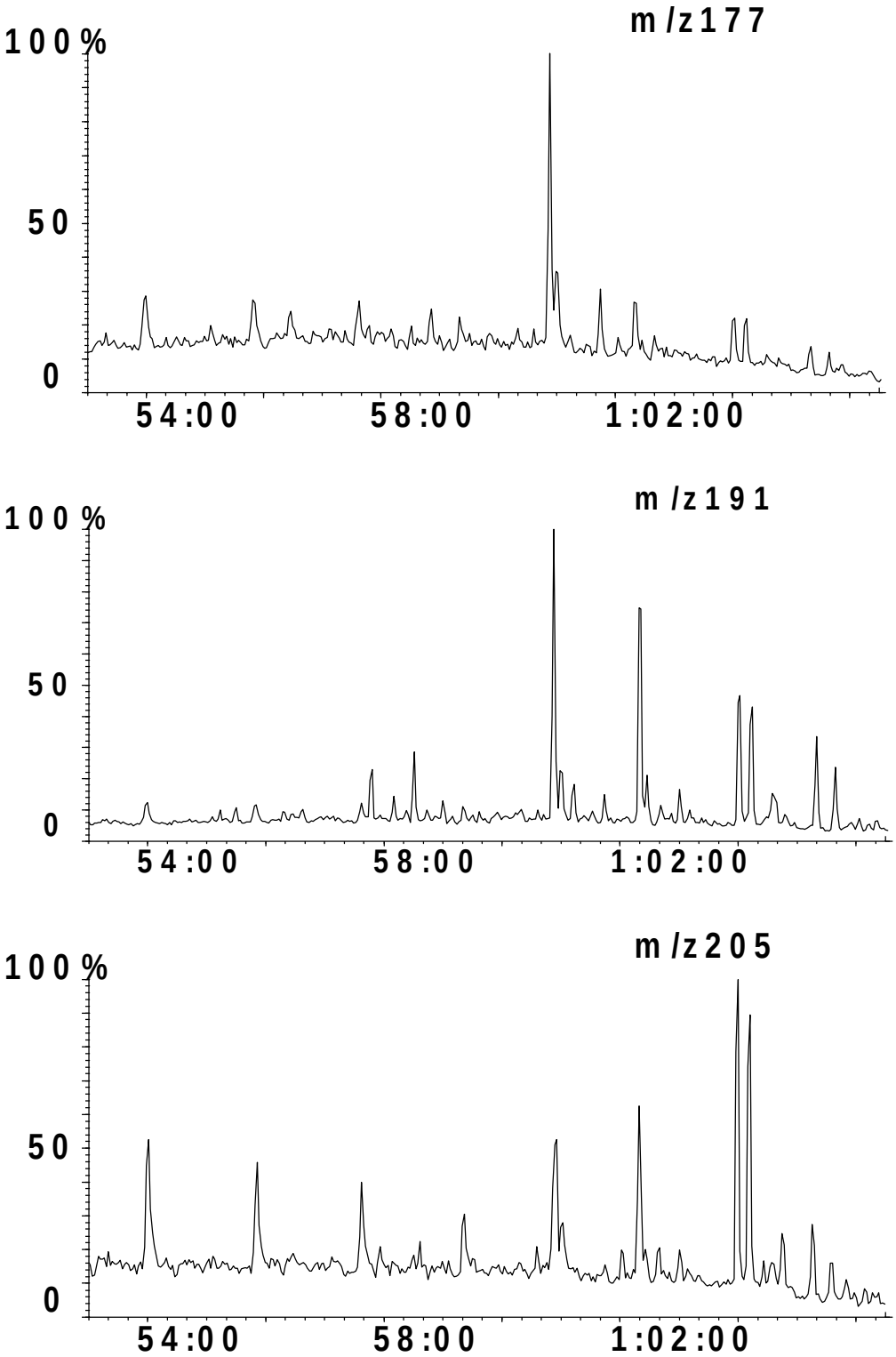
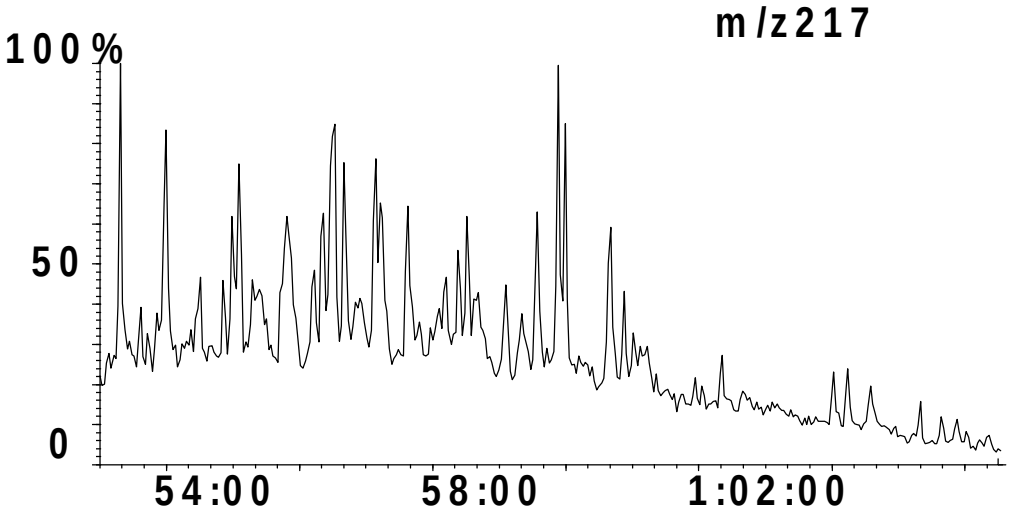
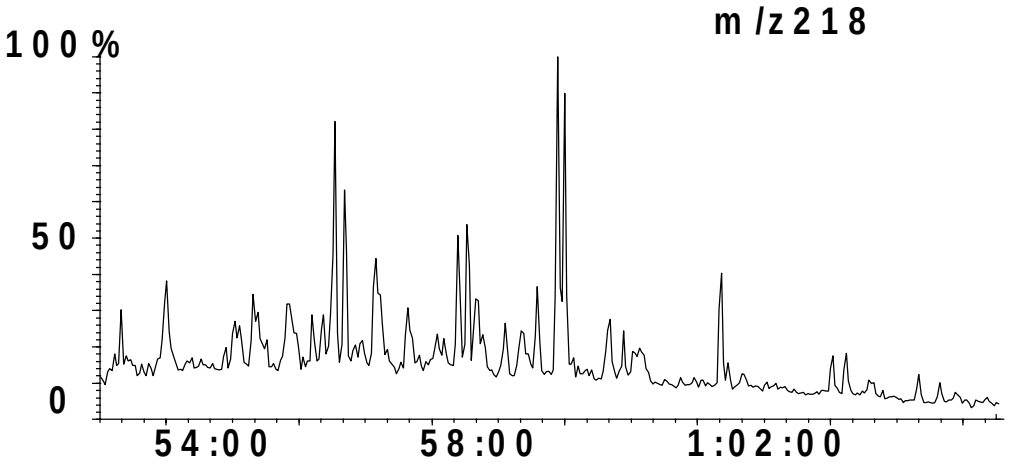
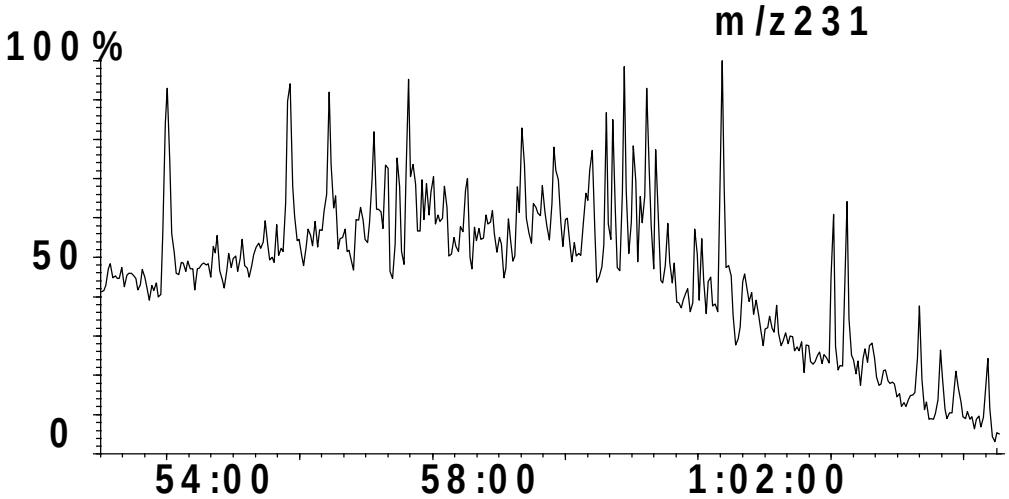
Country: **Australia**	Depth: **3770m**	05-Jun-98
Basin: **Browse**	Age: **132** **(Ma)**	Sample ID: **9405**
Well: **Brewster 1a**	Formation:	Lat: **-13.913706**
Test:		Long: **123.257844**



Country: **Australia**	Depth: **3770m**	05-Jun-98
Basin: **Browse**	Age: **132** **(Ma)**	Sample ID: **9405**
Well: **Brewster 1a**	Formation:	Lat: **-13.913706**
Test:		Long: **123.257844**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3050-3055m**		05-Jun-98
Basin:	**Browse**	Age:	**122.6**	**(Ma)**	Sample ID: **9408**
Well:	**Echuca Shoals 1**	Formation:			Lat: **-13.750342**
Test:					Long: **123.723617**

BULK PROPERTIES:

Rock Eval:

Tmax	**432**
S1:	**1.17**
S2:	**3.51**
S3:	**10.49**
TOC	**1.97**
HI:	**178.1**
OI:	**532**
PI:	**0.25**
PC:	**0.383**
S2/S3:	**10.97**

C15+ Composition

EOM ppm:	**3628**
HC ppm:	**1116**
mgHC/gTOC	**56.7**
% Sat:	**24.0**
% Aro:	**16.6**
% NSO:	**59.5**
% Asph:	**0.0**
Sats/Aro	**1.45**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.84**
C15+ Aromatic:	**-26.97**
kerogen:	**-25.88**
Canonical Variable	**-1.09**

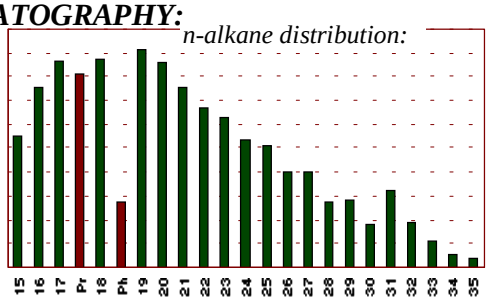
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

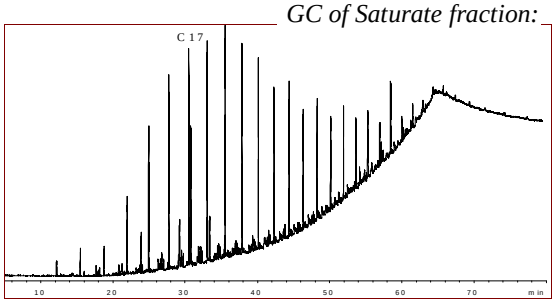
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.97**
Pr/n-C17:	**0.93**
Ph/n-C18:	**0.31**
n-C27/n-C17:	**0.46**
CPI 1:	**1.11**

n-alkane distribution:



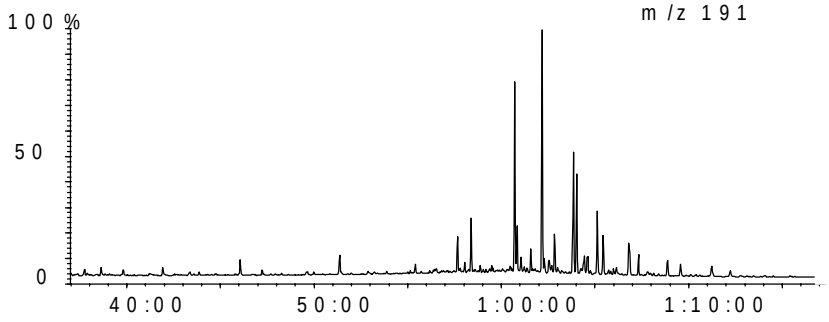
GC of Saturate fraction:



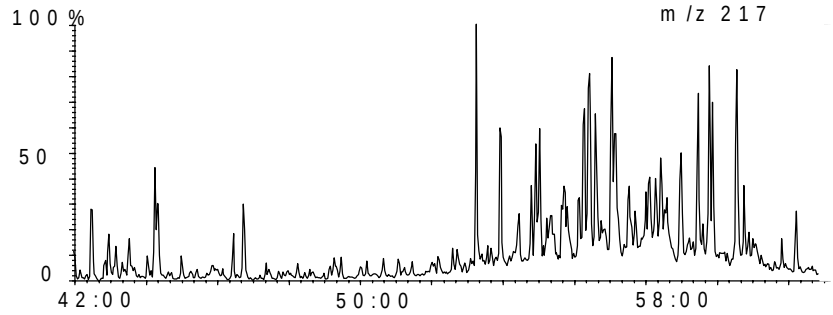
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.39**
C22/C21=	**0.45**
C24/C23=	**0.32**
C26/C25=	**0.82**
Tet/C23=	**1.08**
C27T/C27=	**0.00**
C28/H=	**0.01**
C29/H=	**0.79**
C30X/H=	**0.06**
Ol/H=	**0.00**
C31R/H=	**0.41**
GA/C31R=	**0.17**
C35S/C34S=	**0.66**
Ster/Terp=	**0.20**
Rearr/Reg=	**1.34**
%C27=	**39.97**
%C28=	**19.61**
%C29=	**40.42**
C29 20S/R=	**0.83**
Ts/Tm=	**0.67**
C29D/H=	**0.24**
DM/H=	**0.00**

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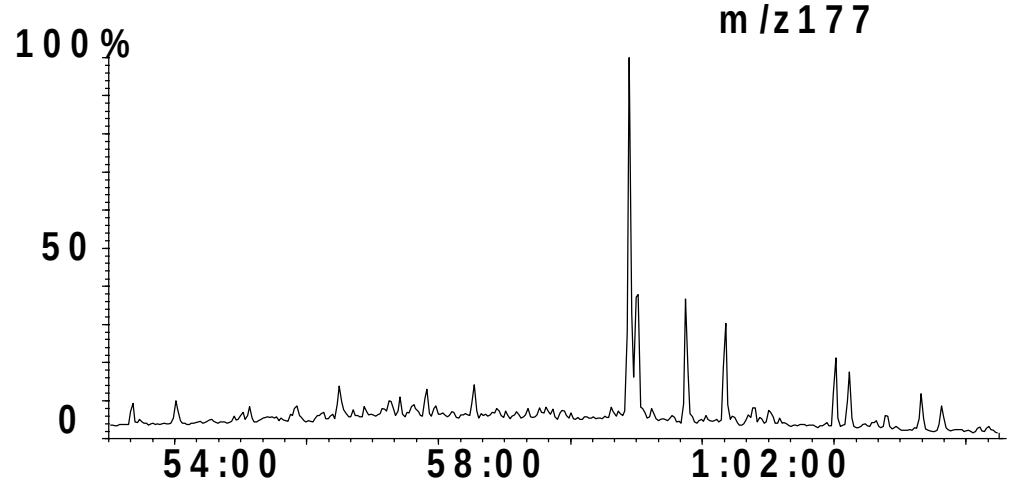
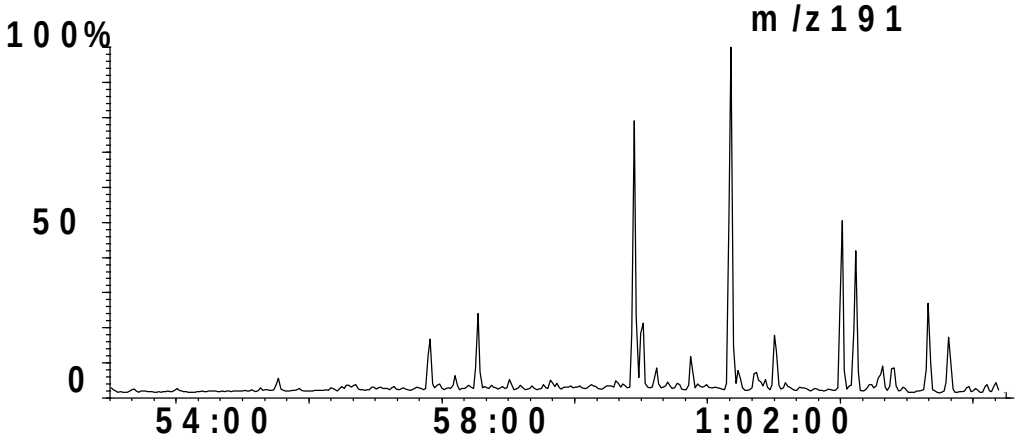
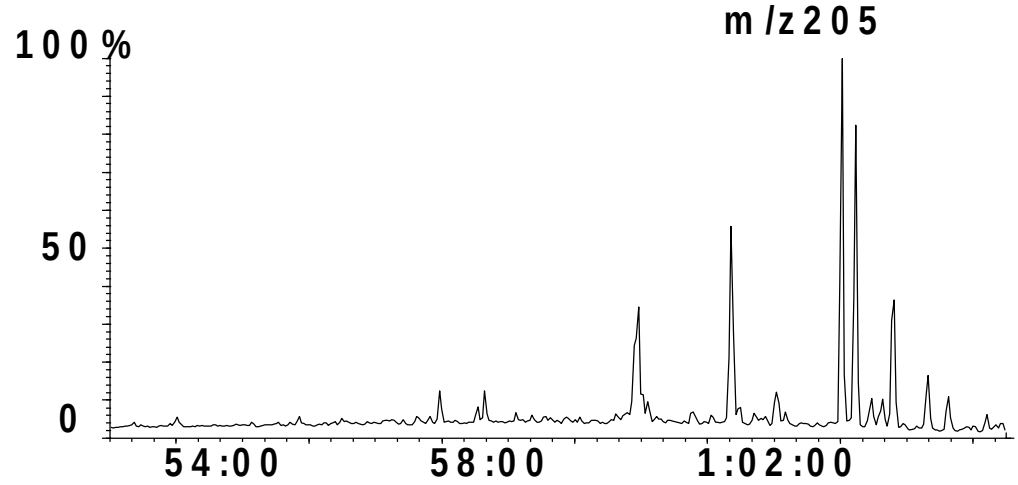
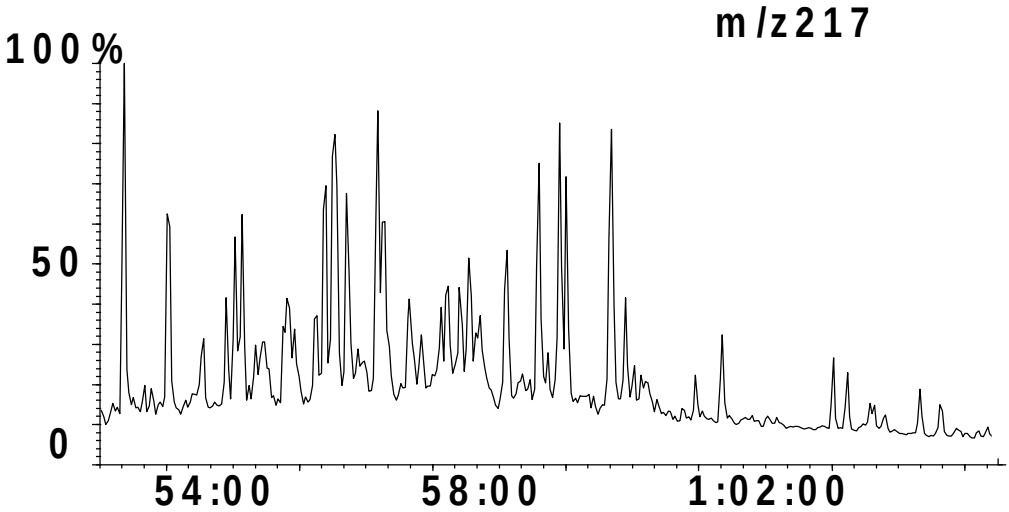
Country: **Australia**	Depth: **3050-3055m**	05-Jun-98
Basin: **Browse**	Age: **122.6** **(Ma)**	Sample ID: **9408**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**

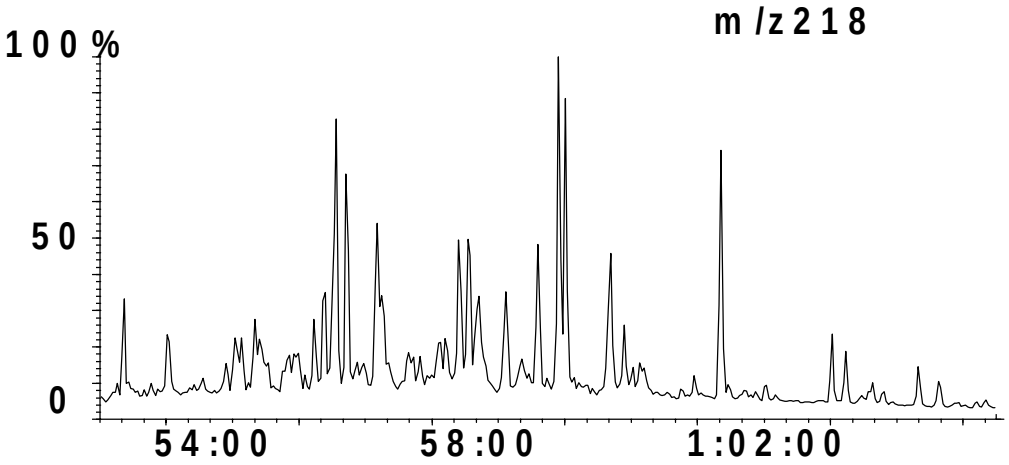


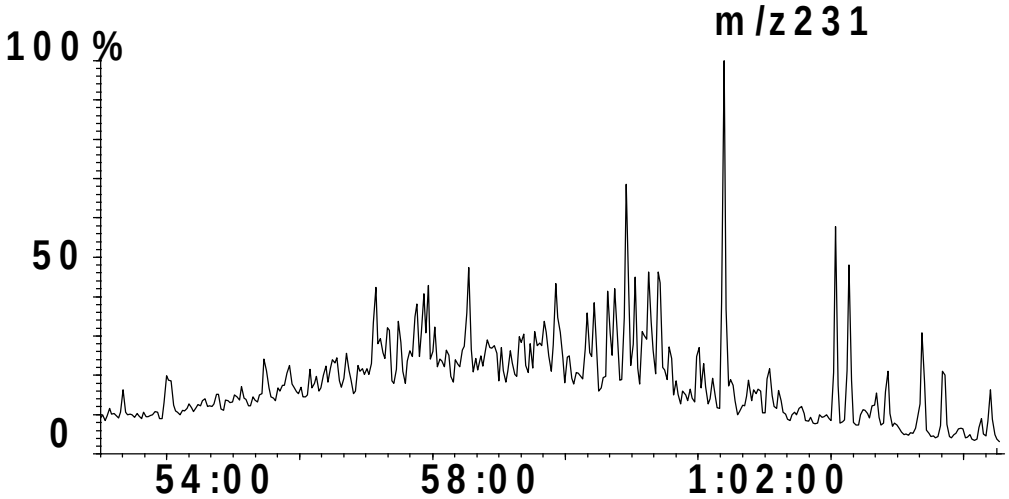




Country: **Australia**	Depth: **3050-3055m**	05-Jun-98
Basin: **Browse**	Age: **122.6** **(Ma)**	Sample ID: **9408**
Well: **Echuca Shoals 1**	Formation:	Lat: **-13.750342**
Test:		Long: **123.723617**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Yampi 1**
Test:

Depth: **2330-2335m**
Age: **120.5** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9429**
Lat: **-14.558889**
Long: **123.276078**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**0.11**
S2:	**2.07**
S3:	**0.06**
TOC	**1.78**
HI:	**116.2**
OI:	**3.370**
PI:	**5.045**
PC:	**0.178**
S2/S3:	**34.50**

C15+ Composition

EOM ppm:	**1546**
HC ppm:	**135**
mgHC/gTOC	**7.6**
% Sat:	**7.7**
% Aro:	**7.7**
% NSO:	**84.6**
% Asph:	**0.0**
Sats/Aro	**1.00**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	
C15+ Aromatic:	
kerogen:	**-25.95**
Canonical Variable	

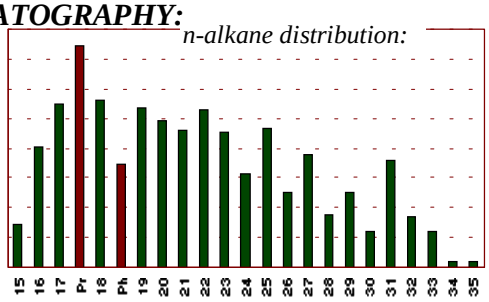
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

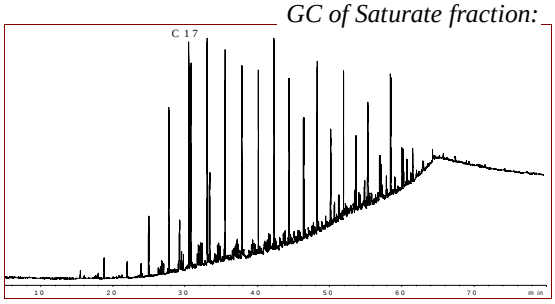
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.15**
Pr/n-C17:	**1.36**
Ph/n-C18:	**0.62**
n-C27/n-C17:	**0.69**
CPI 1:	**1.44**

n-alkane distribution:



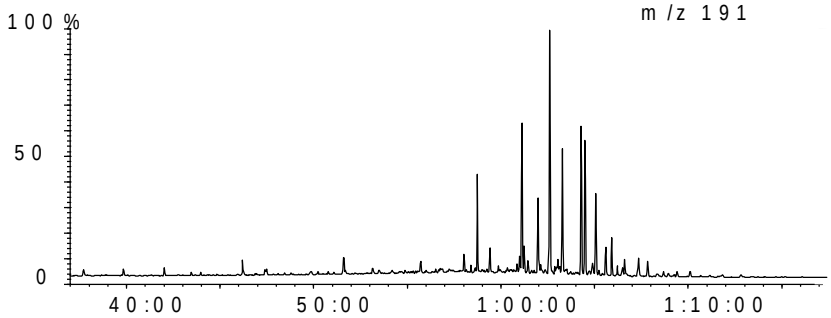
GC of Saturate fraction:



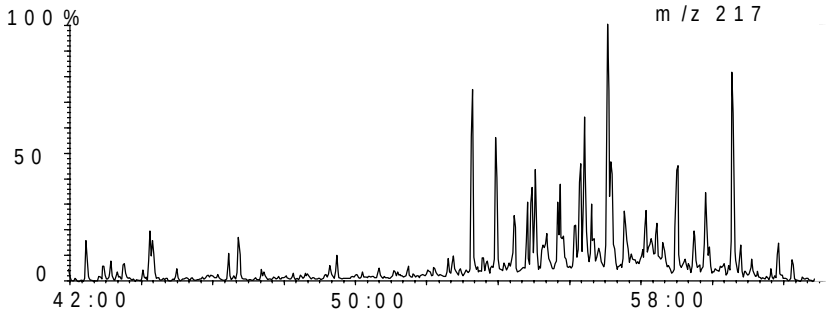
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.41**
C22/C21=	**0.43**
C24/C23=	**0.34**
C26/C25=	**1.11**
Tet/C23=	**0.87**
C27T/C27=	**0.00**
C28/H=	**0.02**
C29/H=	**0.61**
C30X/H=	**0.04**
Ol/H=	**0.01**
C31R/H=	**0.55**
GA/C31R=	**0.08**
C35S/C34S=	**0.50**
Ster/Terp=	**0.35**
Rearr/Reg=	**0.78**
%C27=	**44.28**
%C28=	**18.39**
%C29=	**37.33**
C29 20S/R=	**0.18**
Ts/Tm=	**0.17**
C29D/H=	**0.17**
DM/H=	**0.00**

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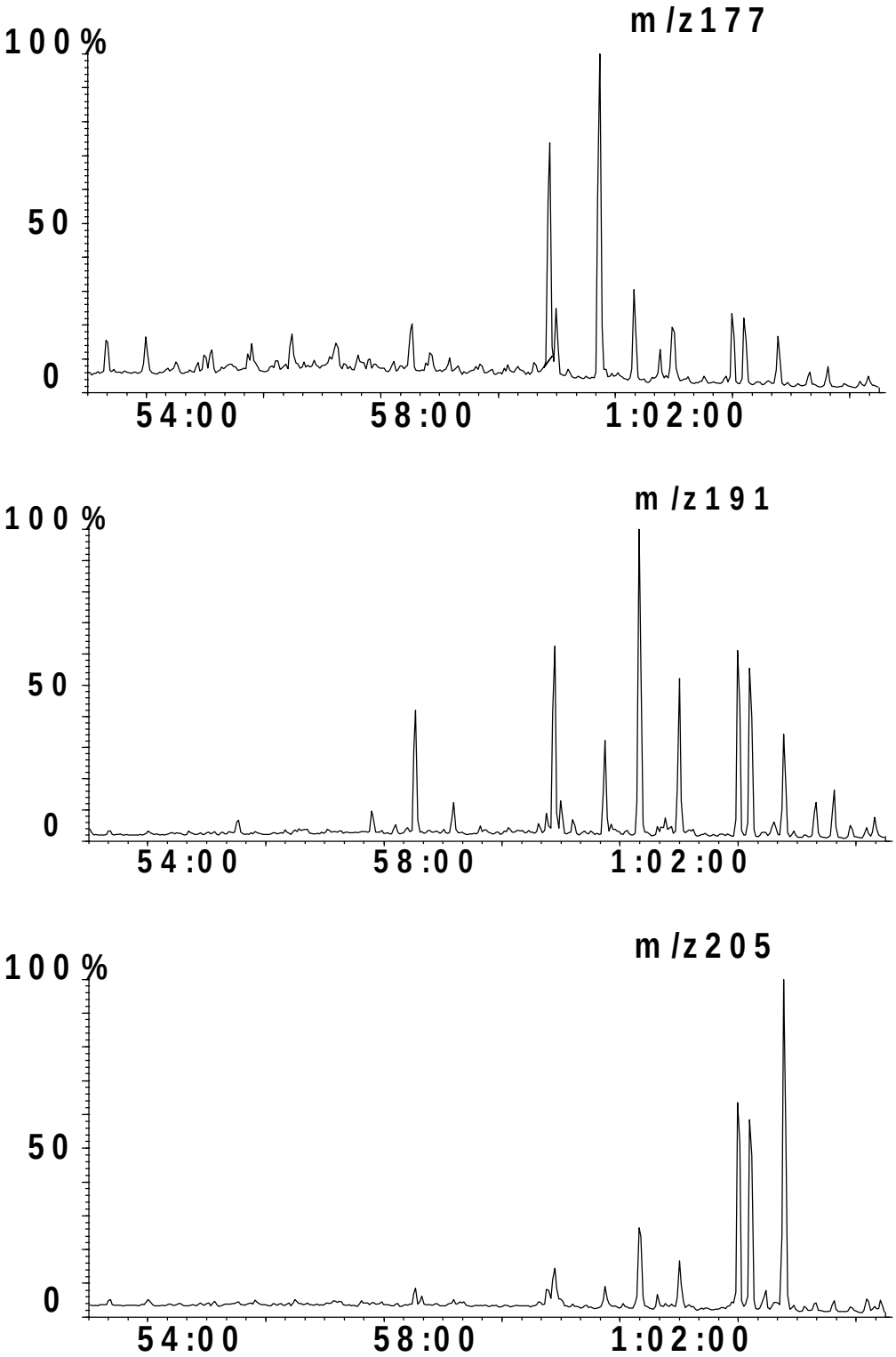
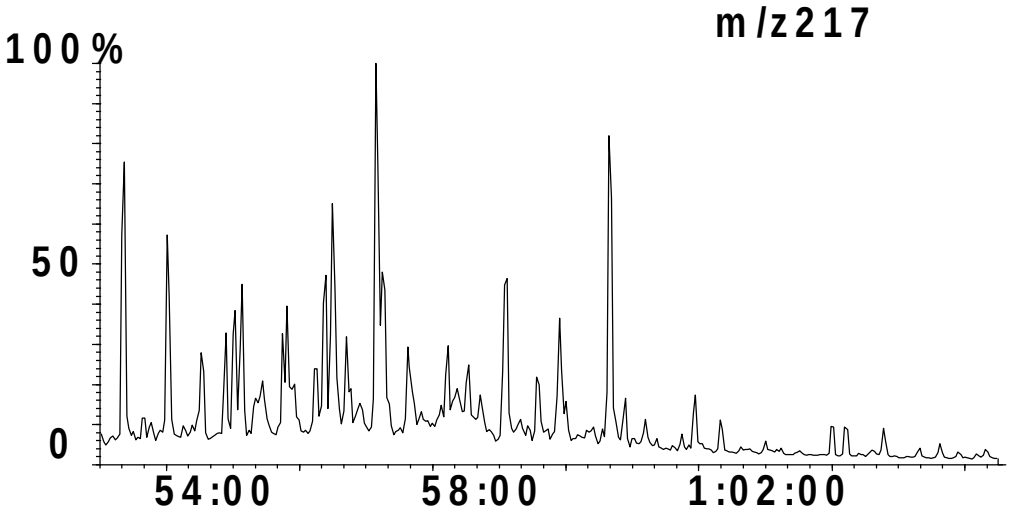
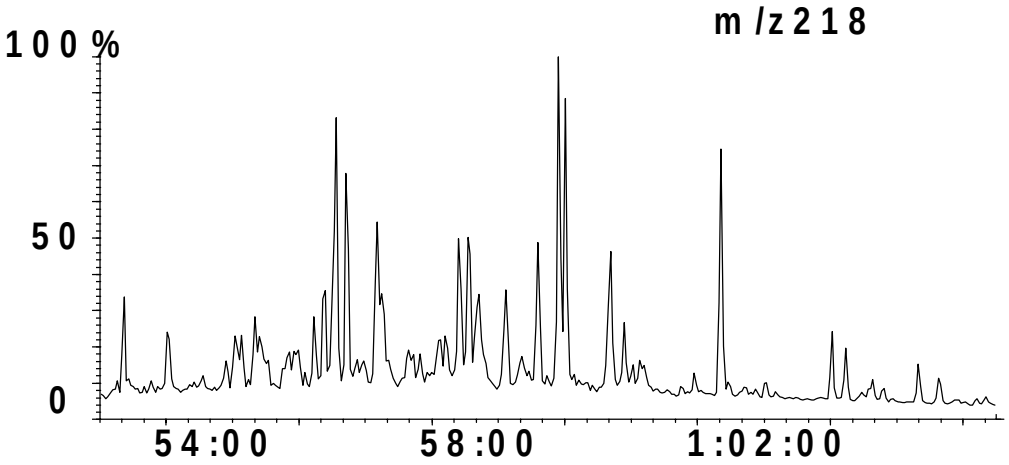
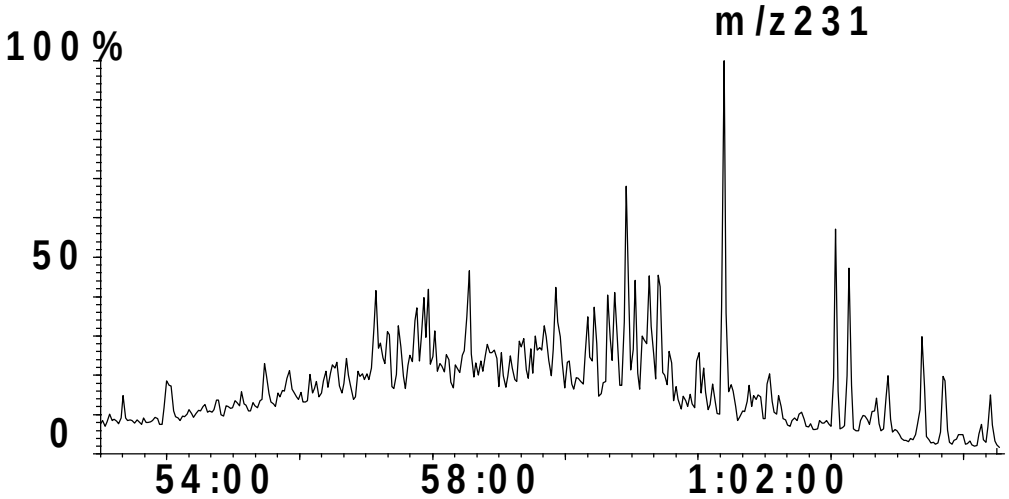
Country: **Australia**	Depth: **2330-2335m**	05-Jun-98
Basin: **Browse**	Age: **120.5** **(Ma)**	Sample ID: **9429**
Well: **Yampi 1**	Formation:	Lat: **-14.558889**
Test:		Long: **123.276078**



Country: **Australia**	Depth: **2330-2335m**	05-Jun-98
Basin: **Browse**	Age: **120.5** **(Ma)**	Sample ID: **9429**
Well: **Yampi 1**	Formation:	Lat: **-14.558889**
Test:		Long: **123.276078**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Caswell 2**
Test:

Depth: **4275-4280m**
Age: **126.5** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9557**
Lat: **-14.242528**
Long: **122.469522**

BULK PROPERTIES:

Rock Eval:

Tmax	**443**
S1:	**1.2**
S2:	**1.43**
S3:	**2.81**
TOC	**0.456**
HI:	**66.82**
OI:	**131.3**
PI:	**0.508**
PC:	**2.14**
S2/S3:	**0.22**

C15+ Composition

EOM ppm:	**2744**
HC ppm:	**1478**
mgHC/gTOC	**323.8**
% Sat:	**44.0**
% Aro:	**20.8**
% NSO:	**35.1**
% Asph:	**0.0**
Sats/Aro	**2.11**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.84**
C15+ Aromatic:	**-26.12**
kerogen:	
Canonical Variable	**0.80**

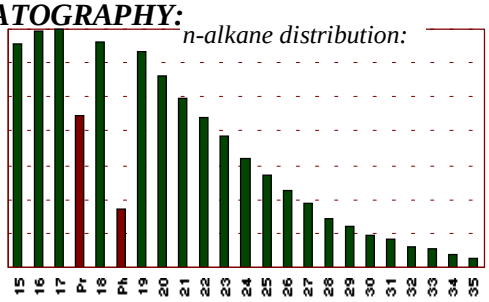
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

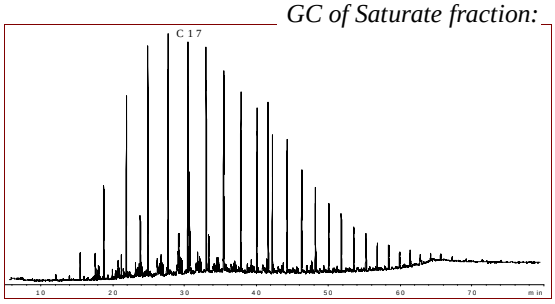
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.56**
Pr/n-C17:	**0.64**
Ph/n-C18:	**0.26**
n-C27/n-C17:	**0.27**
CPI 1:	**1.01**

n-alkane distribution:



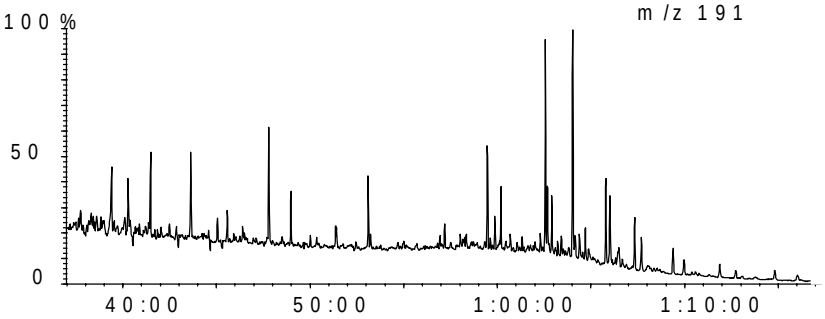
GC of Saturate fraction:



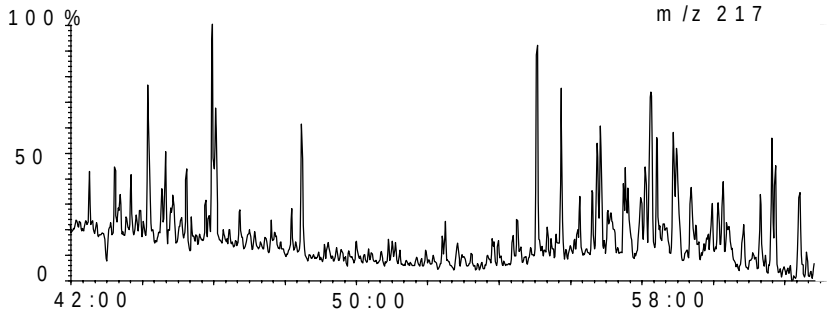
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.54**
C22/C21=	**0.36**
C24/C23=	**0.46**
C26/C25=	**0.66**
Tet/C23=	**0.62**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.94**
C30X/H=	**0.25**
Ol/H=	**0.04**
C31R/H=	**0.30**
GA/C31R=	**0.27**
C35S/C34S=	**0.75**
Ster/Terp=	**0.23**
Rearr/Reg=	**1.99**
%C27=	**47.58**
%C28=	**14.85**
%C29=	**37.57**
C29 20S/R=	**0.83**
Ts/Tm=	**1.59**
C29D/H=	**0.31**
DM/H=	**0.00**

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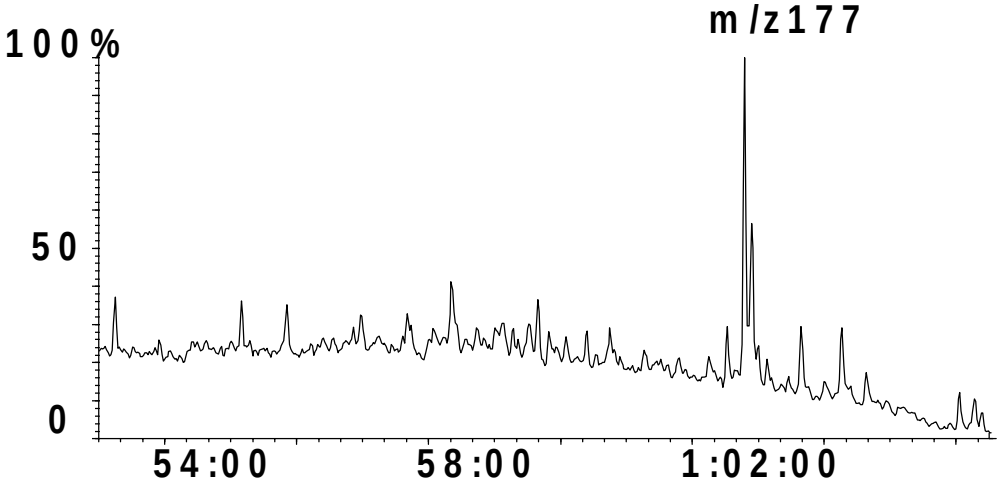
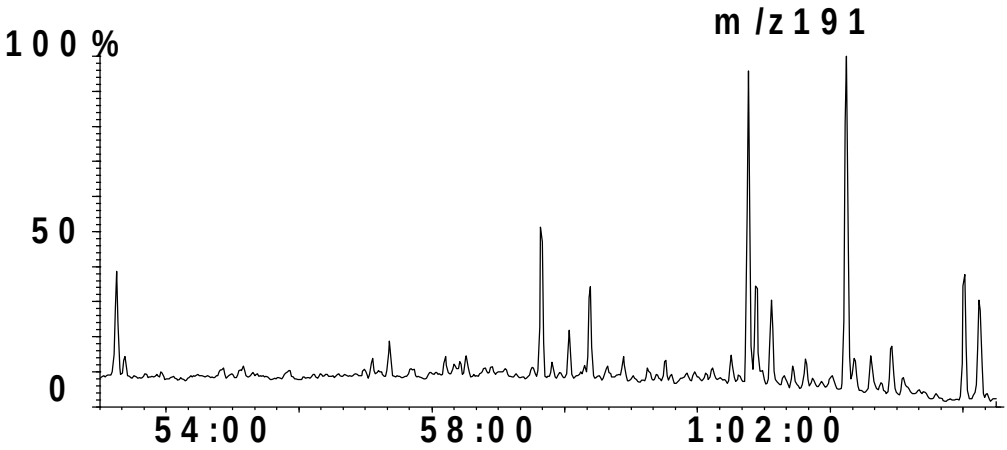
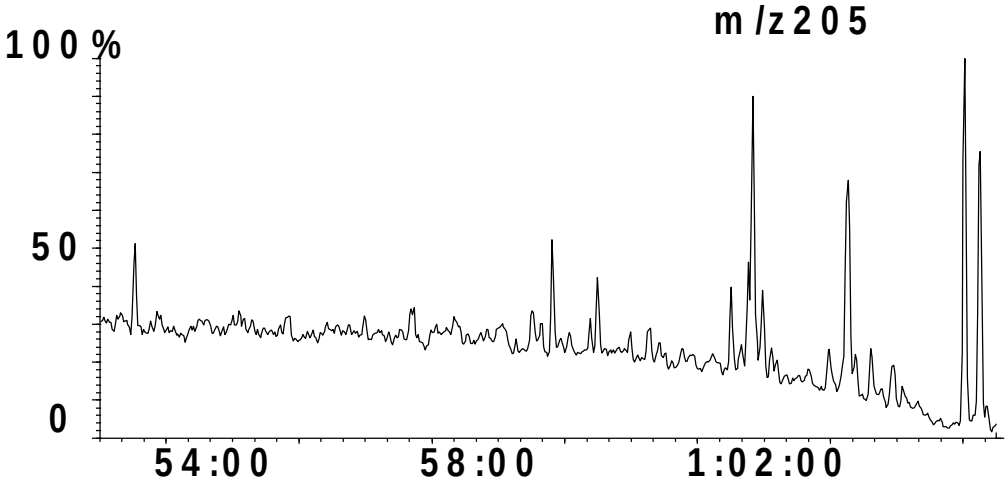
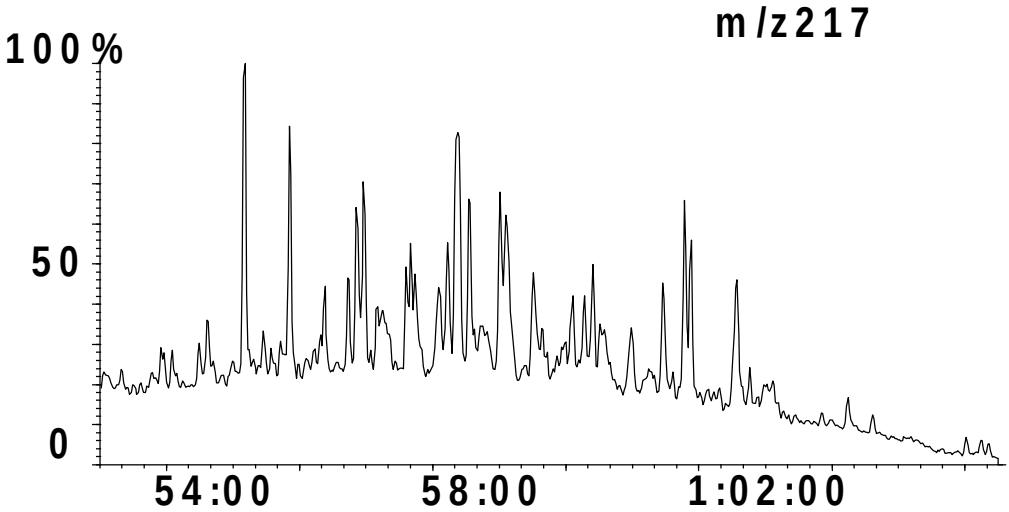
Country: **Australia**	Depth: **4275-4280m**	05-Jun-98
Basin: **Browse**	Age: **126.5** **(Ma)**	Sample ID: **9557**
Well: **Caswell 2**	Formation:	Lat: **-14.242528**
Test:		Long: **122.469522**

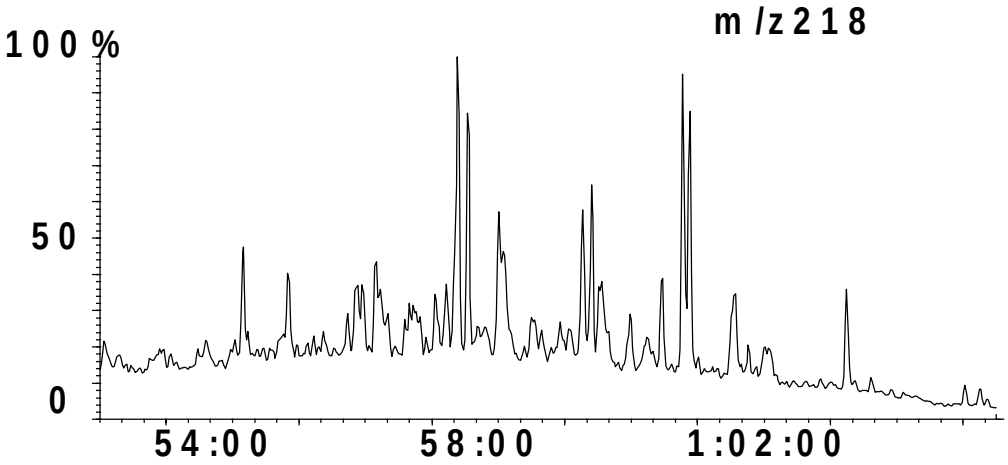


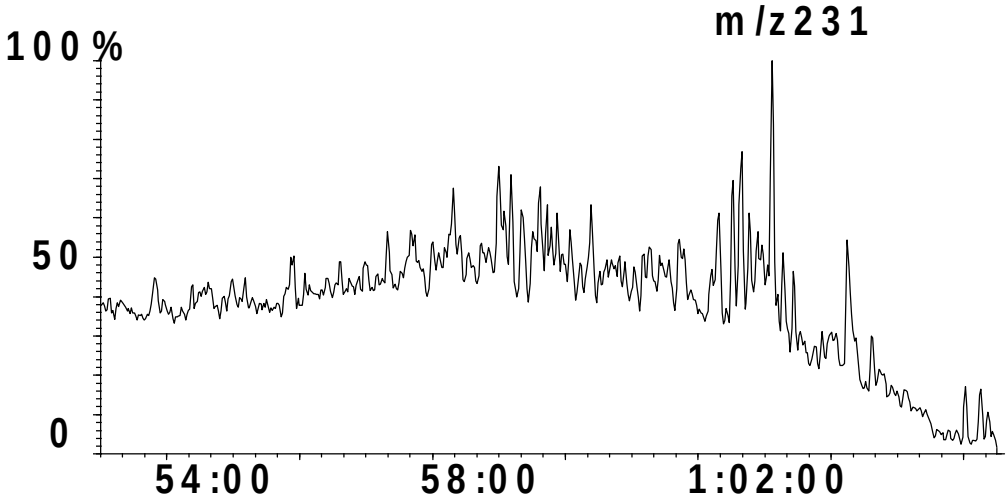




Country: **Australia**	Depth: **4275-4280m**	05-Jun-98
Basin: **Browse**	Age: **126.5** **(Ma)**	Sample ID: **9557**
Well: **Caswell 2**	Formation:	Lat: **-14.242528**
Test:		Long: **122.469522**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**4350-4355m**		05-Jun-98
Basin:	**Browse**	Age:	**133**	**(Ma)**	Sample ID: **9558**
Well:	**Caswell 2**	Formation:			Lat: **-14.242528**
Test:					Long: **122.469522**

BULK PROPERTIES:

Rock Eval:

Tmax	**436**
S1:	**0.8**
S2:	**1.05**
S3:	**1.87**
TOC	**0.432**
HI:	**58.01**
OI:	**103.3**
PI:	**0.561**
PC:	**1.81**
S2/S3:	**0.15**

C15+ Composition

EOM ppm:	**2655**
HC ppm:	**1880**
mgHC/gTOC	**434.7**
% Sat:	**49.6**
% Aro:	**17.3**
% NSO:	**33.1**
% Asph:	**0.0**
Sats/Aro	**2.86**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.42**
C15+ Aromatic:	**-26.18**
kerogen:	
Canonical Variable	**-0.40**

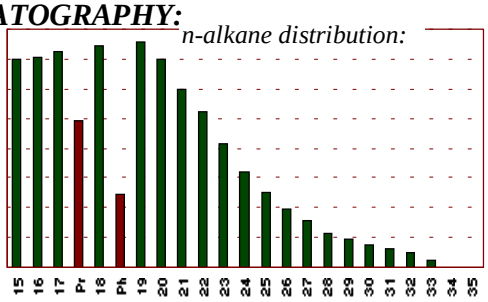
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

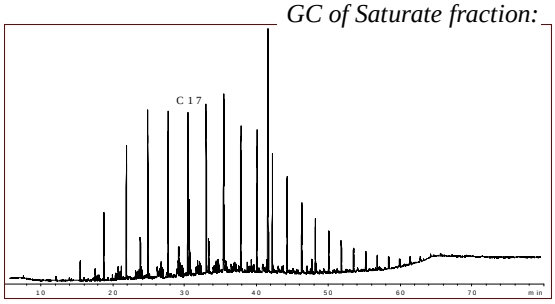
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.97**
Pr/n-C17:	**0.67**
Ph/n-C18:	**0.33**
n-C27/n-C17:	**0.21**
CPI 1:	**0.99**

n-alkane distribution:



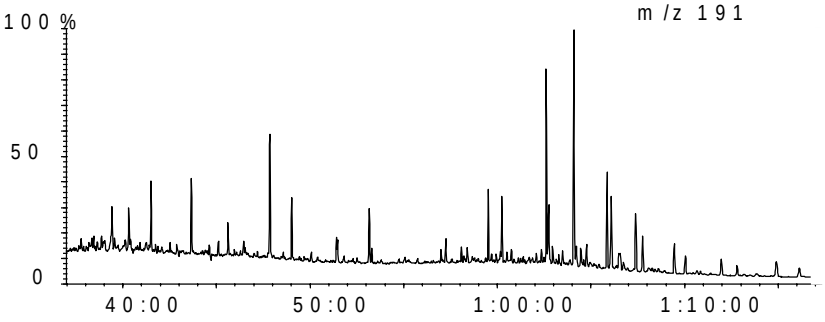
GC of Saturate fraction:



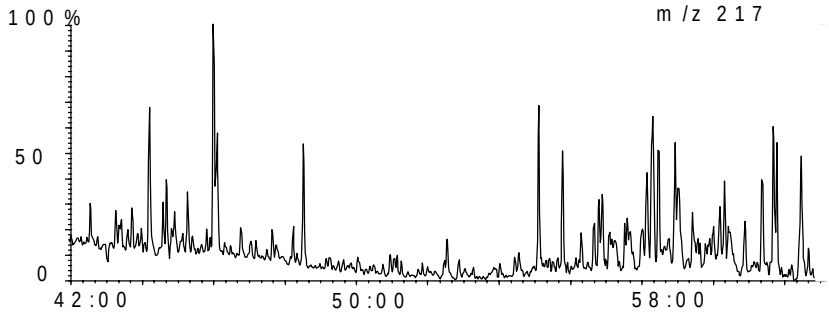
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.34**
C22/C21=	**0.44**
C24/C23=	**0.50**
C26/C25=	**0.59**
Tet/C23=	**0.44**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.82**
C30X/H=	**0.07**
Ol/H=	**0.02**
C31R/H=	**0.31**
GA/C31R=	**0.22**
C35S/C34S=	**0.95**
Ster/Terp=	**0.20**
Rearr/Reg=	**1.45**
%C27=	**40.83**
%C28=	**15.99**
%C29=	**43.18**
C29 20S/R=	**0.74**
Ts/Tm=	**1.11**
C29D/H=	**0.30**
DM/H=	**0.00**

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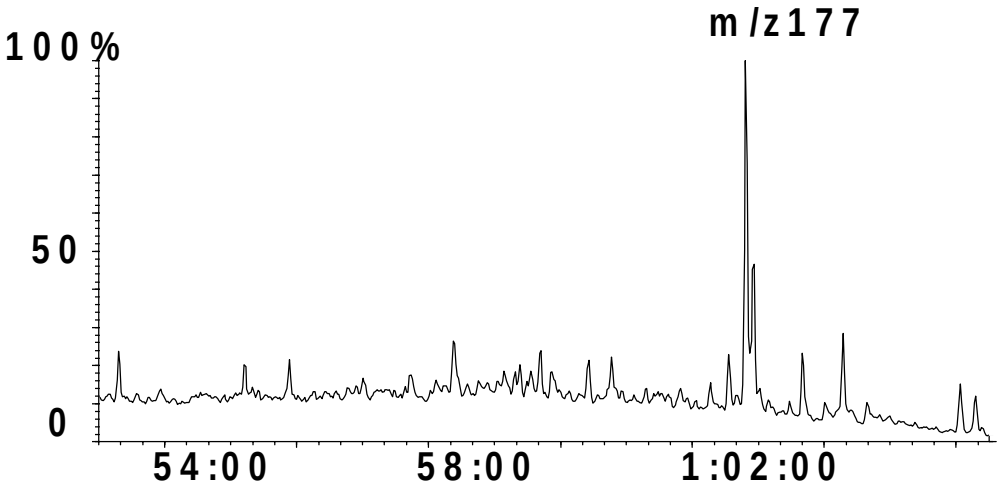
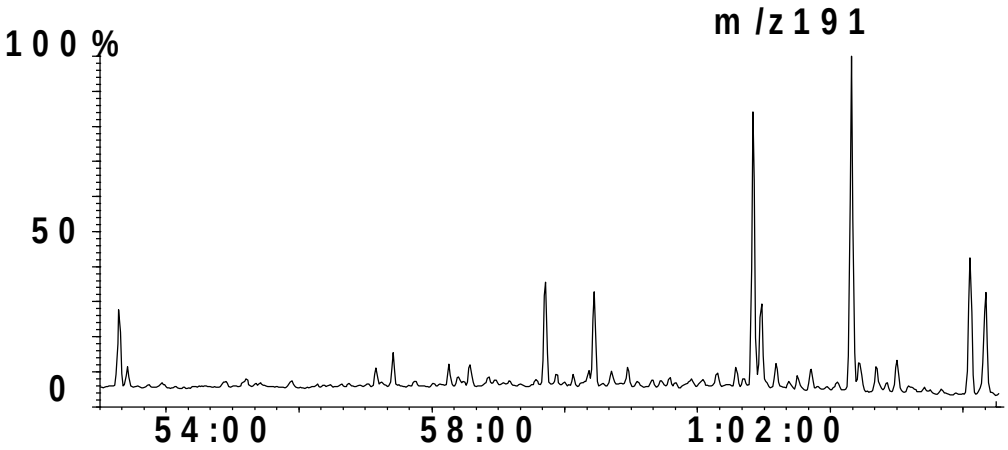
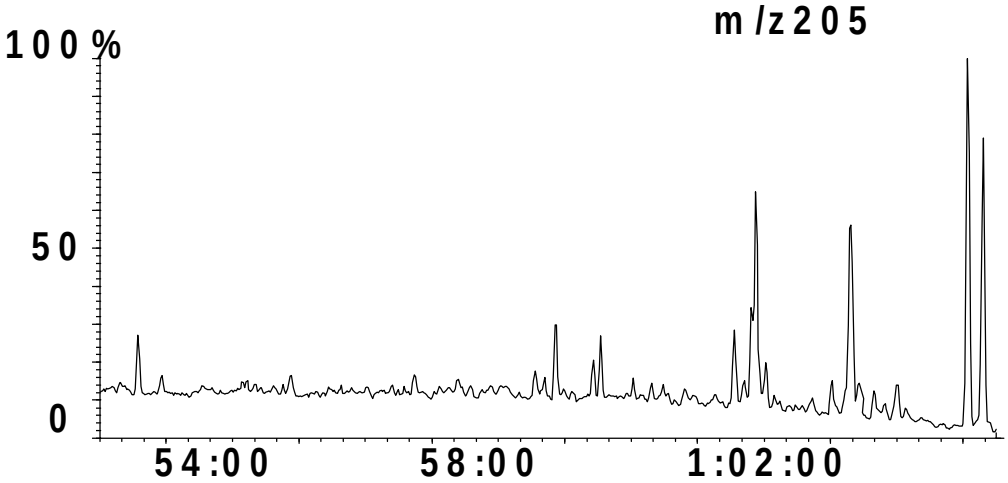
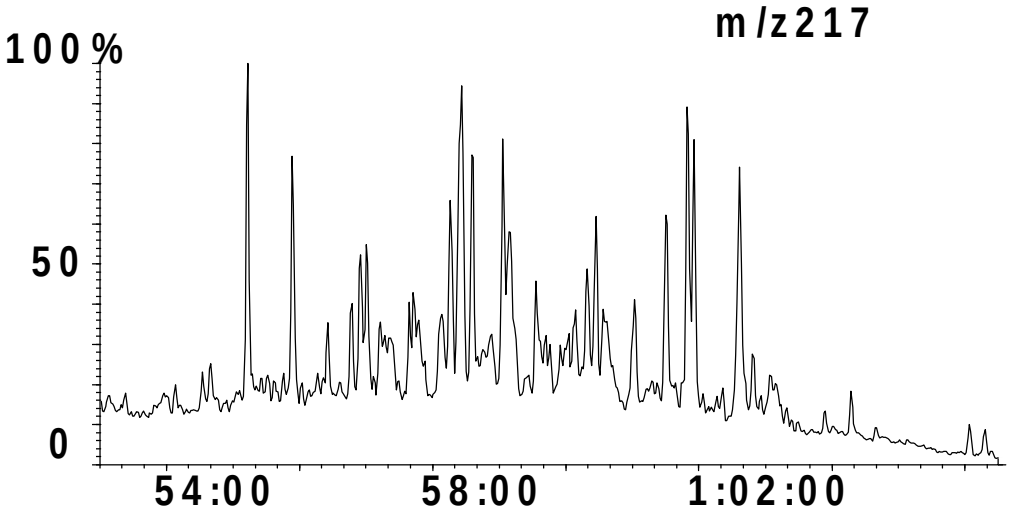
Country: **Australia**	Depth: **4350-4355m**	05-Jun-98
Basin: **Browse**	Age: **133** **(Ma)**	Sample ID: **9558**
Well: **Caswell 2**	Formation:	Lat: **-14.242528**
Test:		Long: **122.469522**

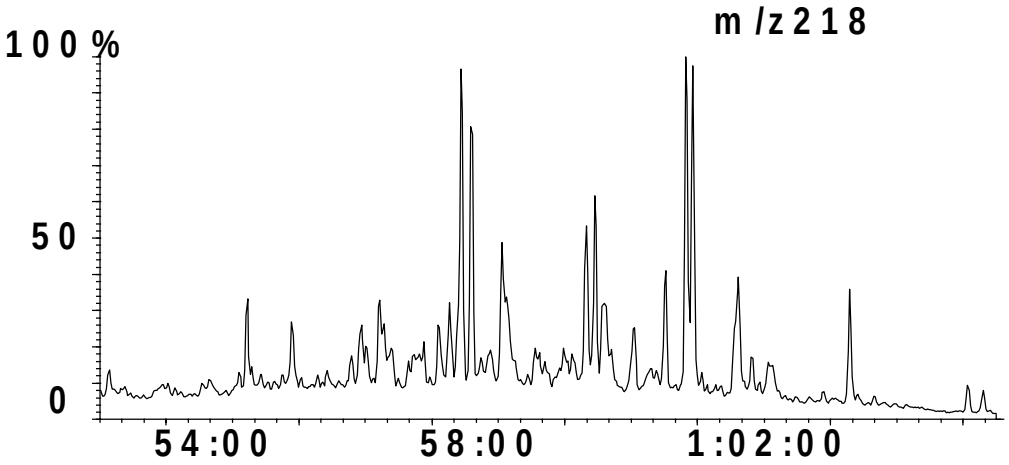


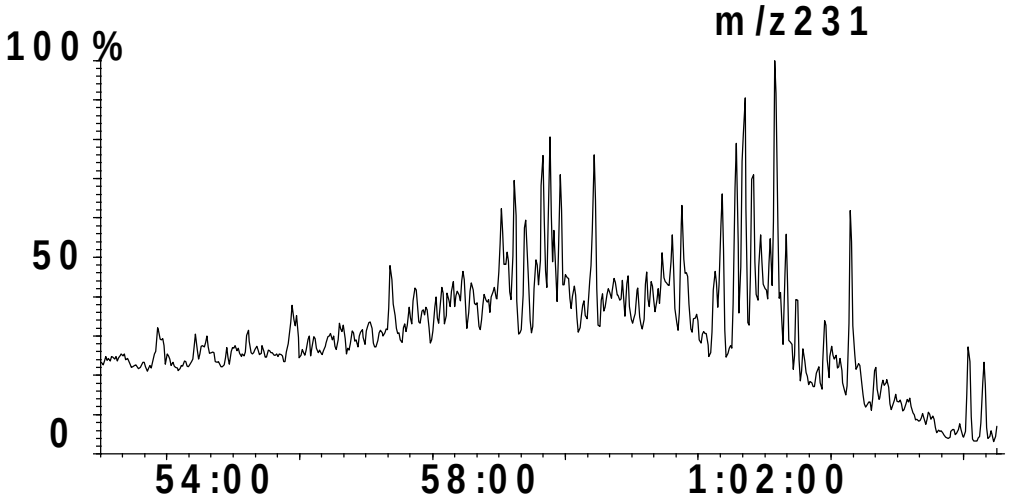




Country: **Australia**	Depth: **4350-4355m**	05-Jun-98
Basin: **Browse**	Age: **133** **(Ma)**	Sample ID: **9558**
Well: **Caswell 2**	Formation:	Lat: **-14.242528**
Test:		Long: **122.469522**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Discorbis 1**
Test:

Depth: **3888-3891m**
Age: **138** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9559**
Lat: **-12.882497**
Long: **123.812888**

BULK PROPERTIES:

Rock Eval:

Tmax	**438**
S1:	**0.48**
S2:	**1.74**
S3:	**2.67**
TOC	**0.216**
HI:	**131.8**
OI:	**202.2**
PI:	**0.651**
PC:	**1.32**
S2/S3:	**0.18**

C15+ Composition

EOM ppm:	**2376**
HC ppm:	**1443**
mgHC/gTOC	**667.6**
% Sat:	**38.8**
% Aro:	**16.5**
% NSO:	**44.6**
% Asph:	**0.0**
Sats/Aro	**2.35**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-29.11**
C15+ Aromatic:	**-28.36**
kerogen:	
Canonical Variable	**-0.96**

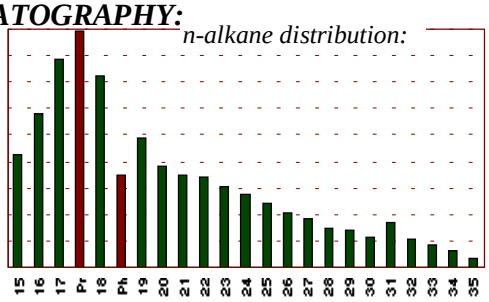
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

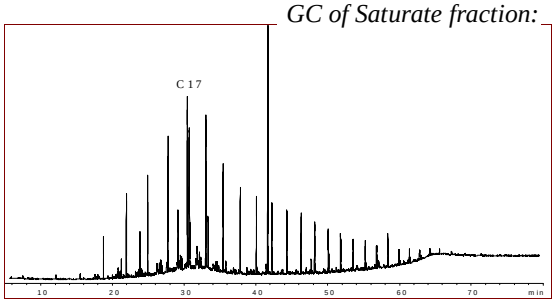
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.58**
Pr/n-C17:	**1.13**
Ph/n-C18:	**0.48**
n-C27/n-C17:	**0.23**
CPI 1:	**1.02**

n-alkane distribution:



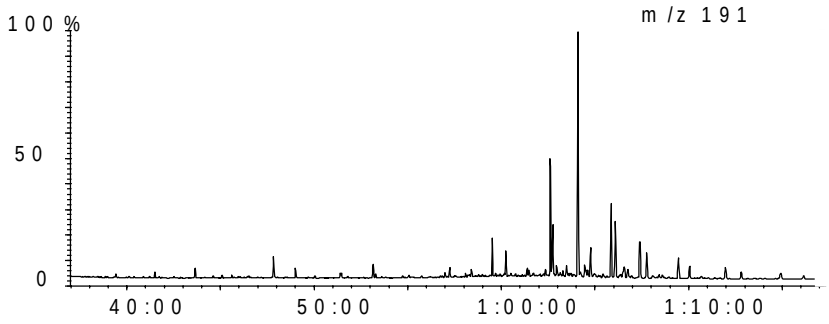
GC of Saturate fraction:



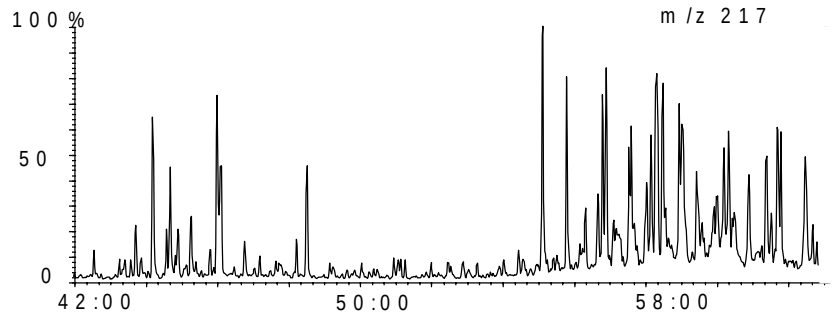
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.16**
C22/C21=	**0.28**
C24/C23=	**0.44**
C26/C25=	**0.81**
Tet/C23=	**0.63**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.48**
C30X/H=	**0.04**
Ol/H=	**0.01**
C31R/H=	**0.23**
GA/C31R=	**0.19**
C35S/C34S=	**0.50**
Ster/Terp=	**0.16**
Rearr/Reg=	**1.63**
%C27=	**44.14**
%C28=	**24.35**
%C29=	**31.51**
C29 20S/R=	**0.96**
Ts/Tm=	**1.50**
C29D/H=	**0.44**
DM/H=	**0.00**

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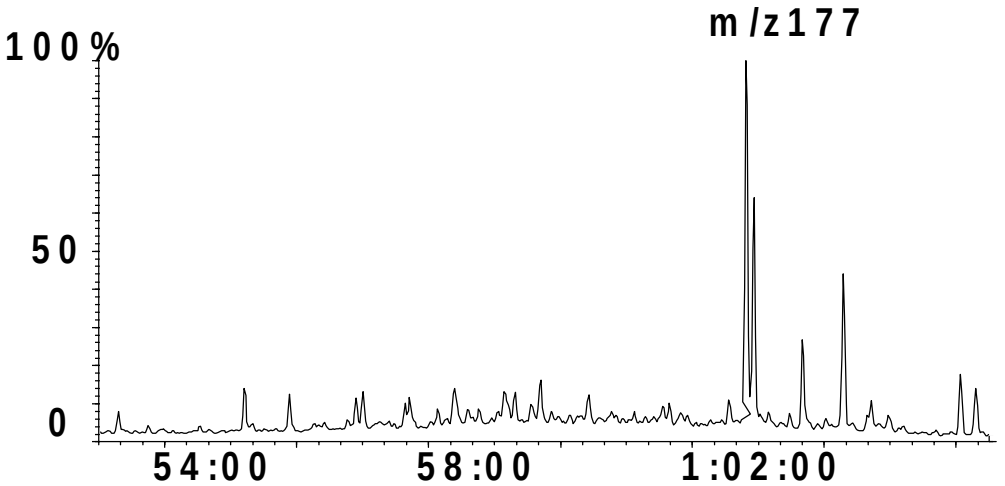
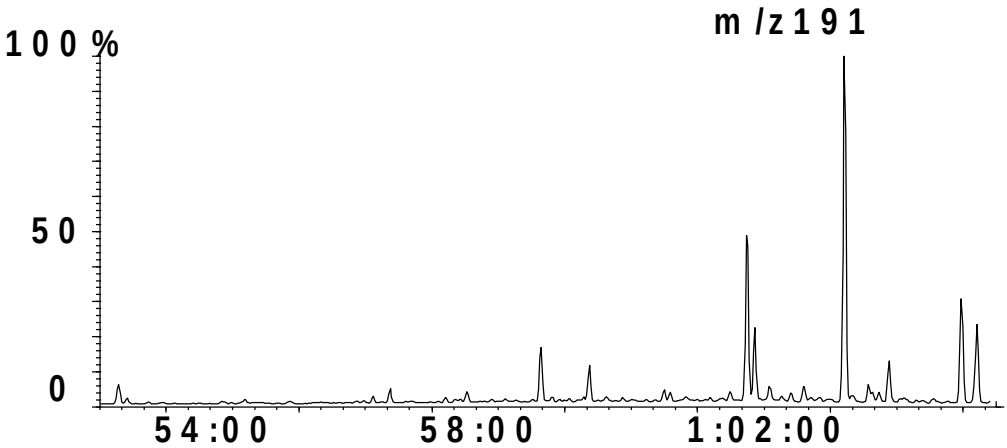
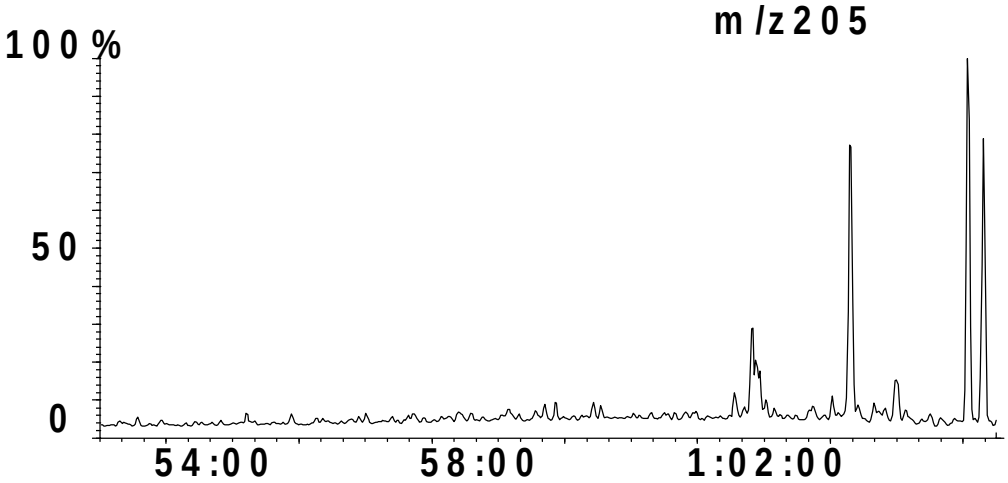
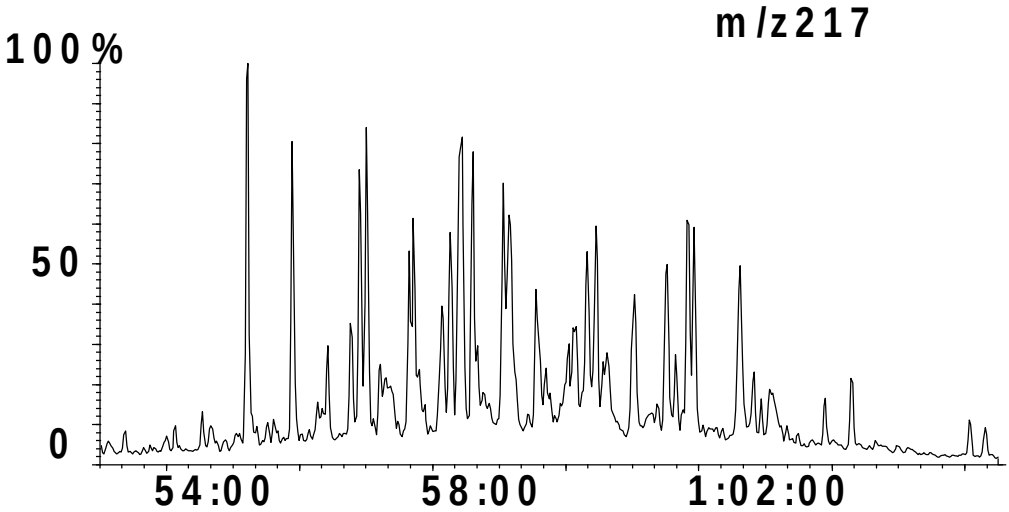
Country: **Australia**	Depth: **3888-3891m**	05-Jun-98
Basin: **Browse**	Age: **138** **(Ma)**	Sample ID: **9559**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**

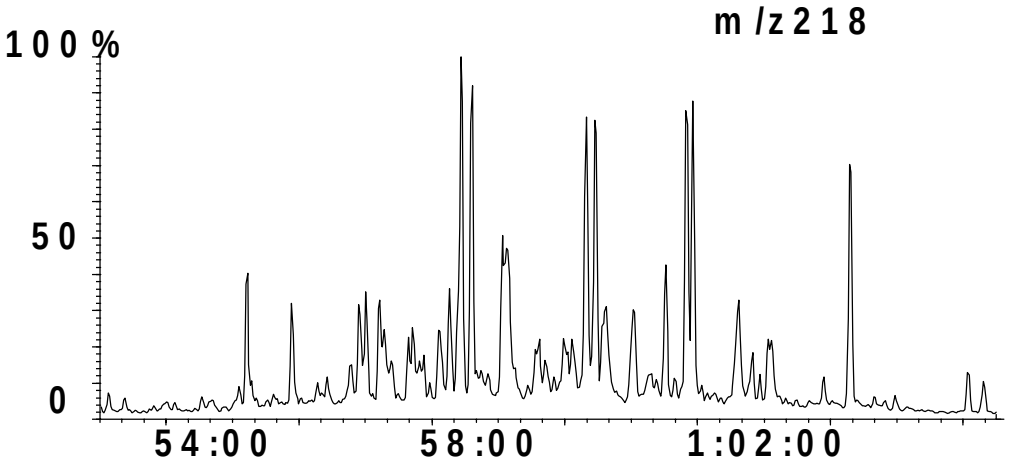


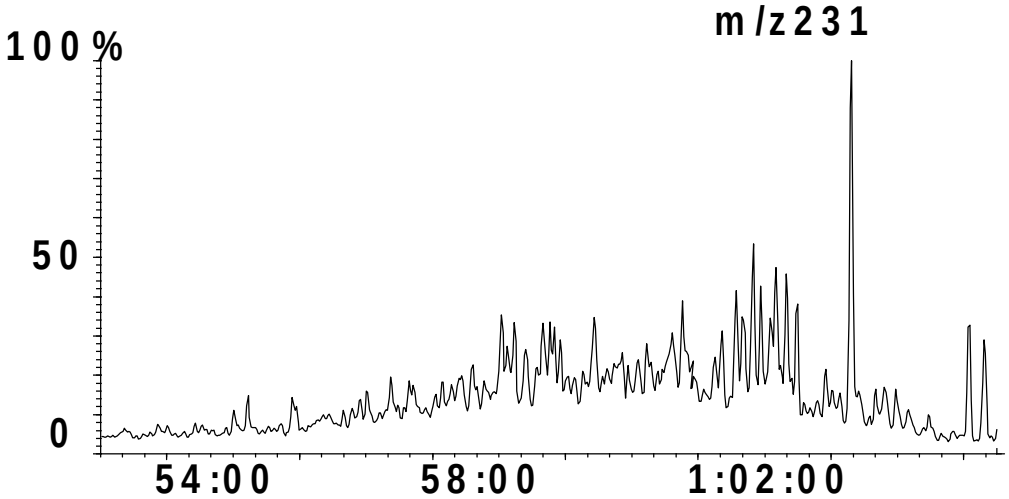




Country: **Australia**	Depth: **3888-3891m**	05-Jun-98
Basin: **Browse**	Age: **138** **(Ma)**	Sample ID: **9559**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Discorbis 1**
Test:

Depth: **3963-3966m**
Age: **138.1** **(Ma)**
Formation:

05-Jun-98
Sample ID: **9560**
Lat: **-12.882497**
Long: **123.812888**

BULK PROPERTIES:

Rock Eval:

Tmax	**436**
S1:	**0.97**
S2:	**3.15**
S3:	**5.11**
TOC	**0.235**
HI:	**132.9**
OI:	**215.6**
PI:	**0.616**
PC:	**2.37**
S2/S3:	**0.34**

C15+ Composition

EOM ppm:	**4572**
HC ppm:	**1492**
mgHC/gTOC	**633.9**
% Sat:	**18.4**
% Aro:	**24.7**
% NSO:	**57.0**
% Asph:	**0.0**
Sats/Aro	**0.74**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-28.68**
C15+ Aromatic:	**-27.23**
kerogen:	
Canonical Variable	**0.46**

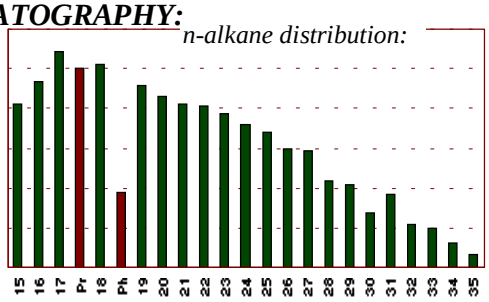
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

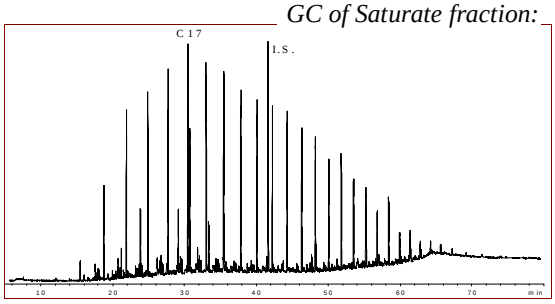
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.68**
Pr/n-C17:	**0.93**
Ph/n-C18:	**0.37**
n-C27/n-C17:	**0.54**
CPI 1:	**1.07**

n-alkane distribution:



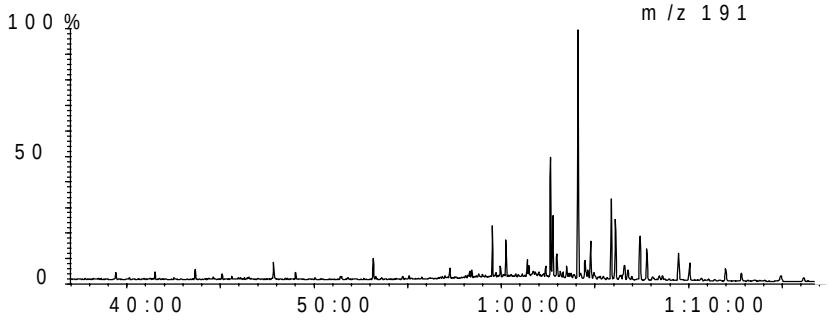
GC of Saturate fraction:



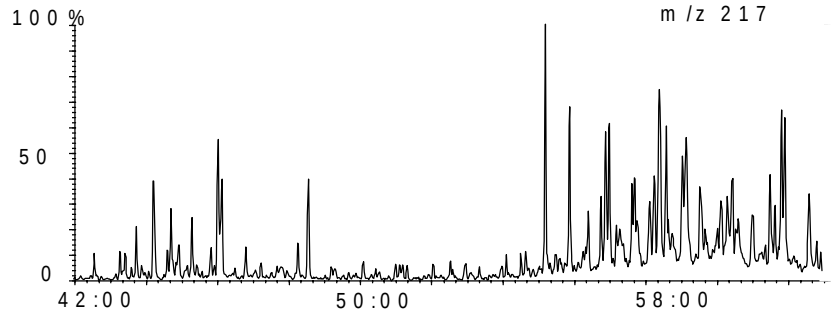
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.41**
C22/C21=	**0.30**
C24/C23=	**0.41**
C26/C25=	**0.86**
Tet/C23=	**1.23**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.48**
C30X/H=	**0.09**
Ol/H=	**0.01**
C31R/H=	**0.24**
GA/C31R=	**0.23**
C35S/C34S=	**0.47**
Ster/Terp=	**0.16**
Rearr/Reg=	**2.47**
%C27=	**46.57**
%C28=	**20.42**
%C29=	**33.00**
C29 20S/R=	**1.20**
Ts/Tm=	**1.41**
C29D/H=	**0.51**
DM/H=	**0.00**

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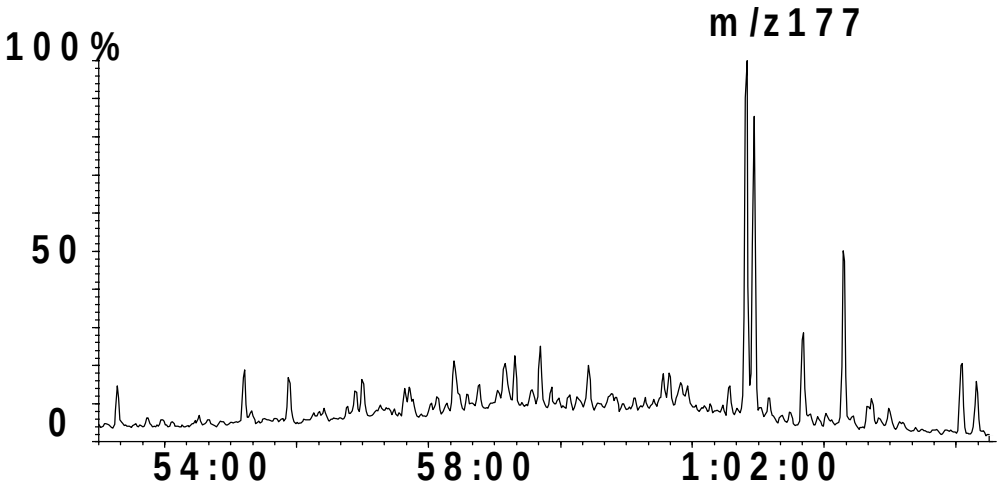
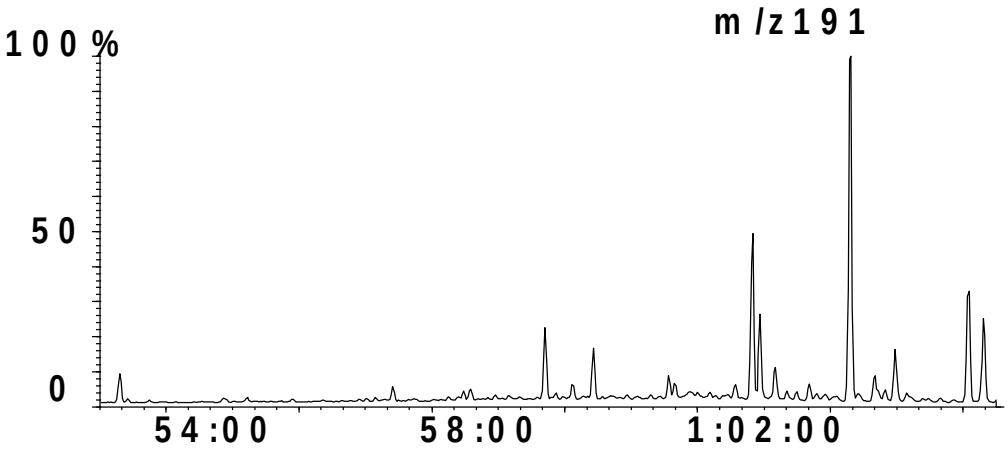
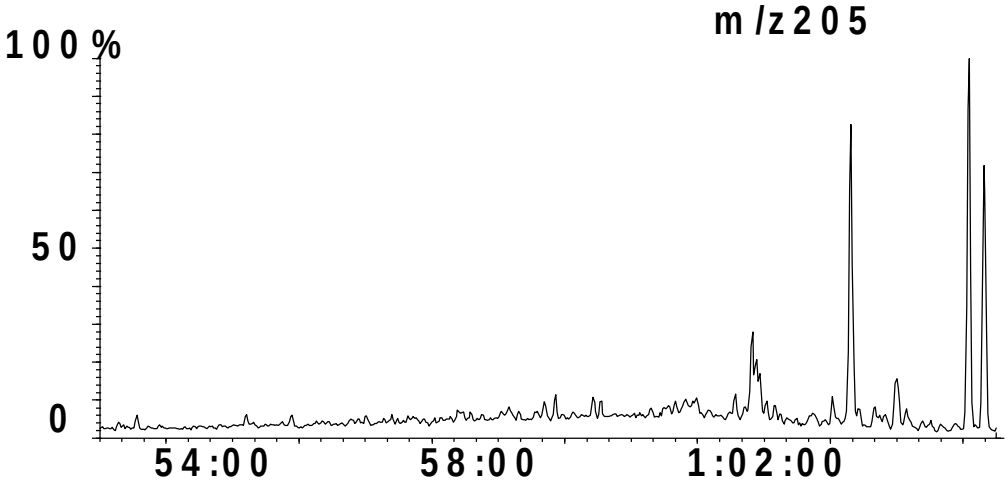
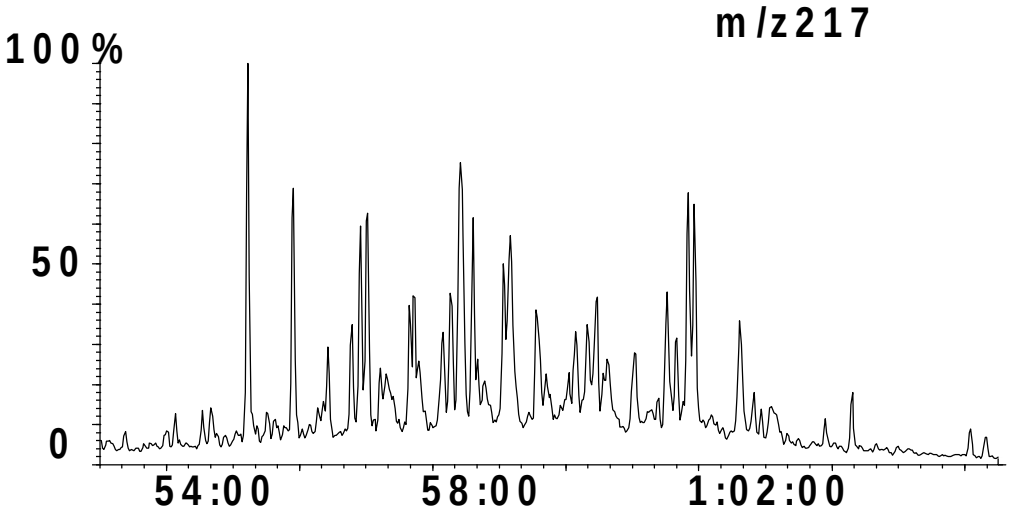
Country: **Australia**	Depth: **3963-3966m**	05-Jun-98
Basin: **Browse**	Age: **138.1** **(Ma)**	Sample ID: **9560**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**

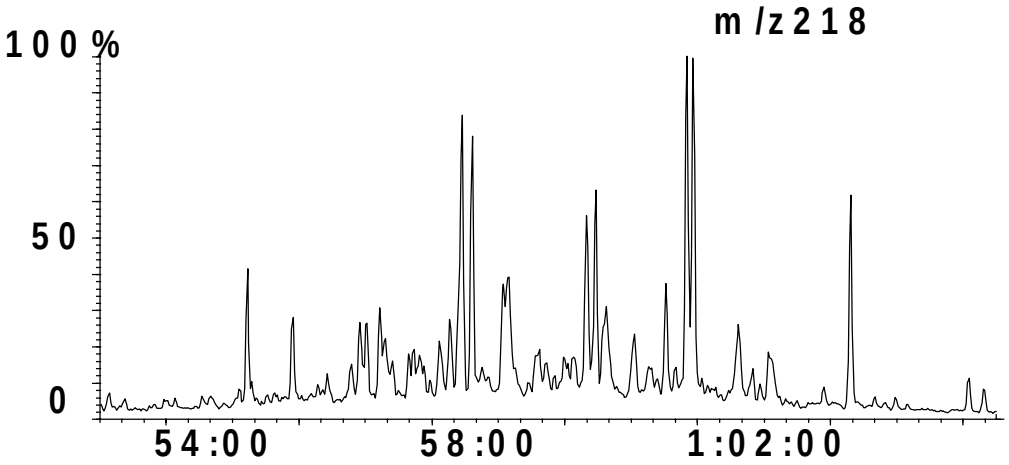


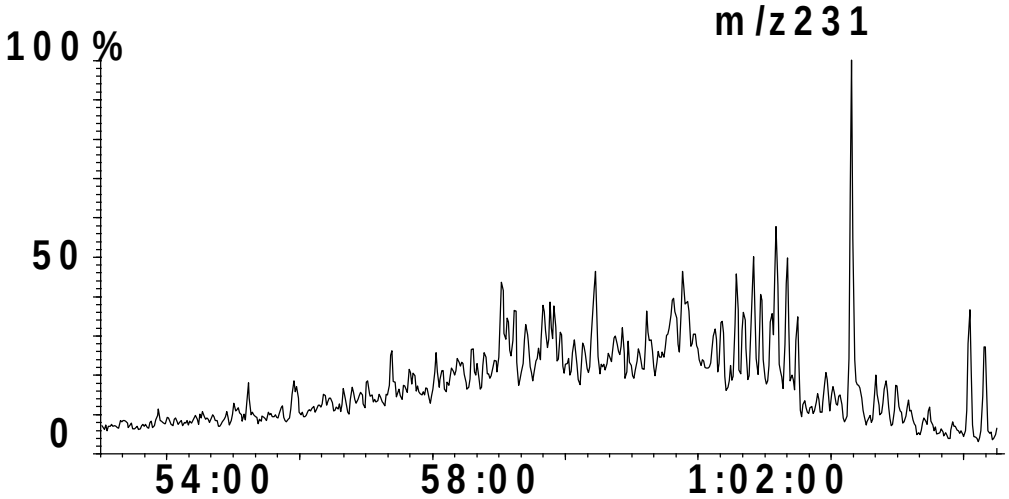




Country: **Australia**	Depth: **3963-3966m**	05-Jun-98
Basin: **Browse**	Age: **138.1** **(Ma)**	Sample ID: **9560**
Well: **Discorbis 1**	Formation:	Lat: **-12.882497**
Test:		Long: **123.812888**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4257-4260m**
Age: **129.5** **(Ma)**
Formation:

10-Jun-98
Sample ID: **9561**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**444**
S1:	**1.36**
S2:	**2.83**
S3:	**1.75**
TOC	**0.324**
HI:	**114.1**
OI:	**70.56**
PI:	**1.617**
PC:	**2.48**
S2/S3:	**0.35**

C15+ Composition

EOM ppm:	**3917**
HC ppm:	**1856**
mgHC/gTOC	**571.9**
% Sat:	**36.4**
% Aro:	**28.1**
% NSO:	**35.5**
% Asph:	**0.0**
Sats/Aro	**1.30**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-28.92**
C15+ Aromatic:	**-27.28**
kerogen:	
Canonical Variable	**0.96**

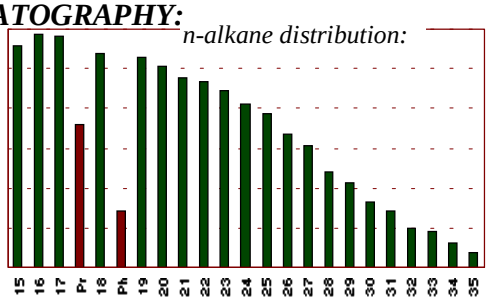
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

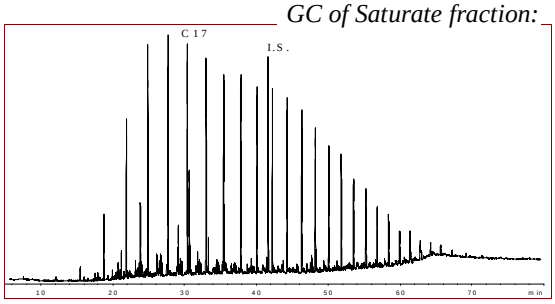
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.58**
Pr/n-C17:	**0.62**
Ph/n-C18:	**0.26**
n-C27/n-C17:	**0.53**
CPI 1:	**1.04**

n-alkane distribution:



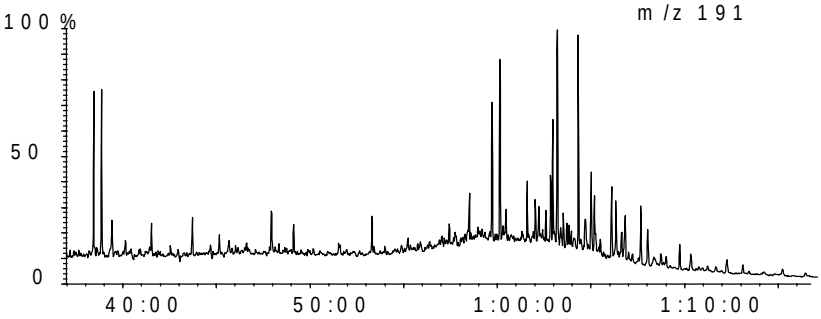
GC of Saturate fraction:



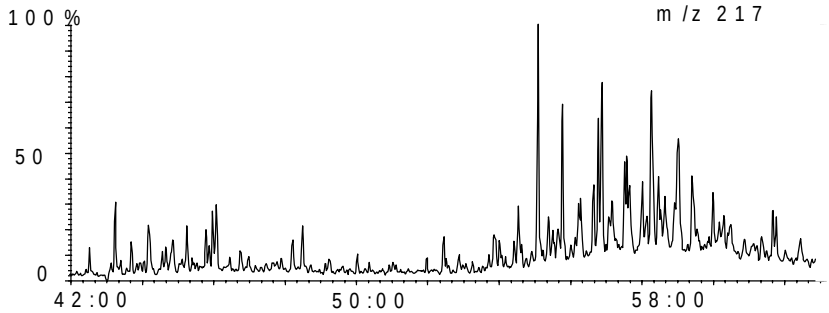
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.83**
C22/C21=	**0.33**
C24/C23=	**0.69**
C26/C25=	**0.62**
Tet/C23=	**0.91**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.31**
C30X/H=	**1.01**
Ol/H=	**0.04**
C31R/H=	**0.26**
GA/C31R=	**0.78**
C35S/C34S=	**0.50**
Ster/Terp=	**0.48**
Rearr/Reg=	**5.50**
%C27=	**53.89**
%C28=	**17.37**
%C29=	**28.75**
C29 20S/R=	**0.81**
Ts/Tm=	**4.90**
C29D/H=	**1.85**
DM/H=	**0.00**

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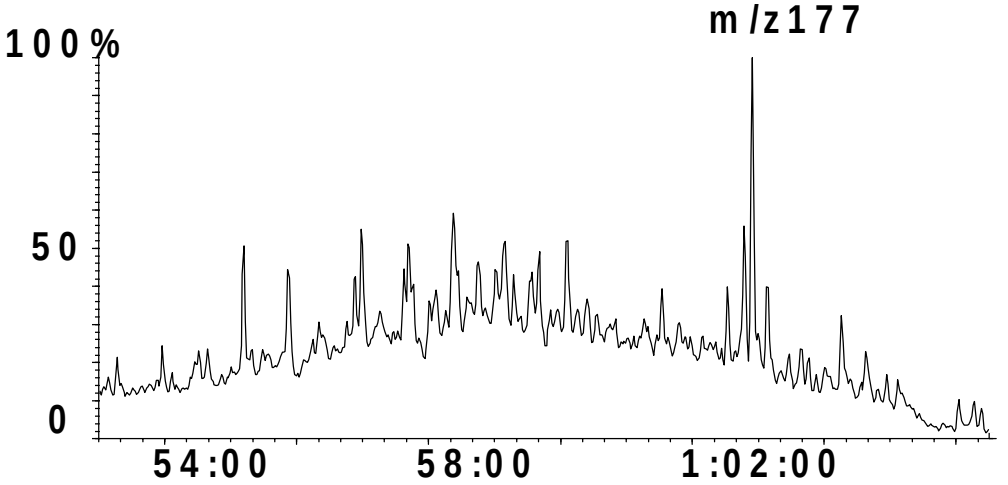
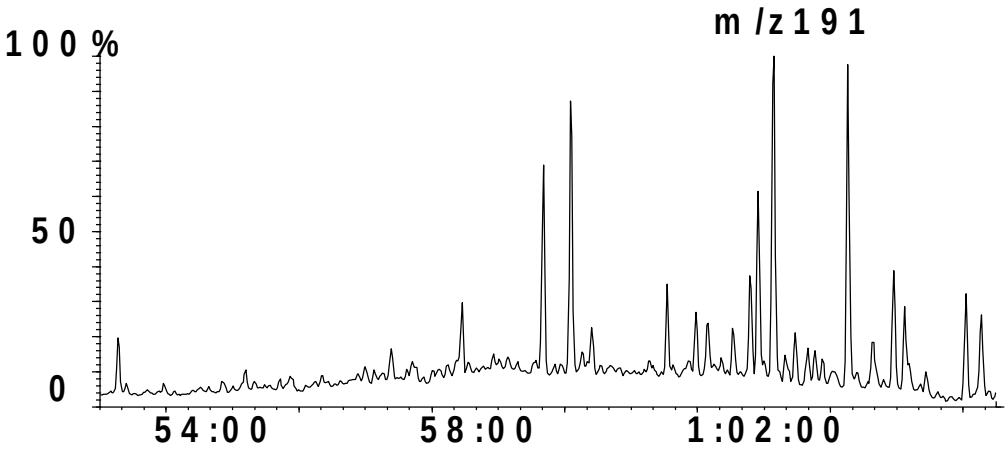
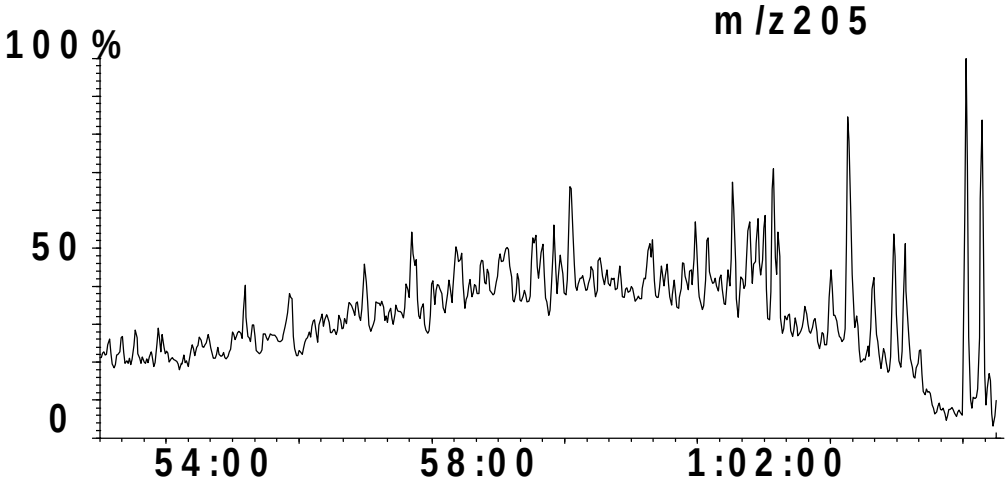
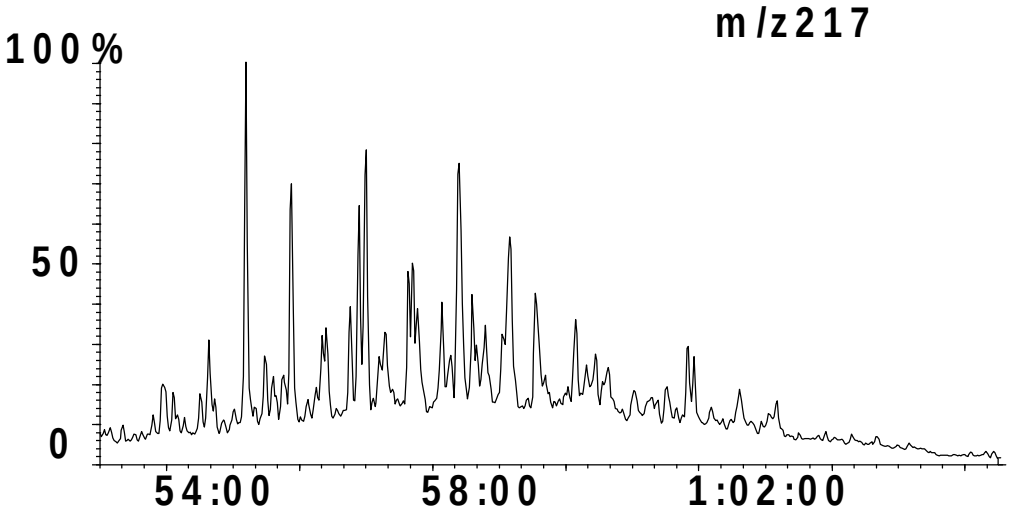
Country: **Australia**	Depth: **4257-4260m**	10-Jun-98
Basin: **Browse**	Age: **129.5** **(Ma)**	Sample ID: **9561**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**

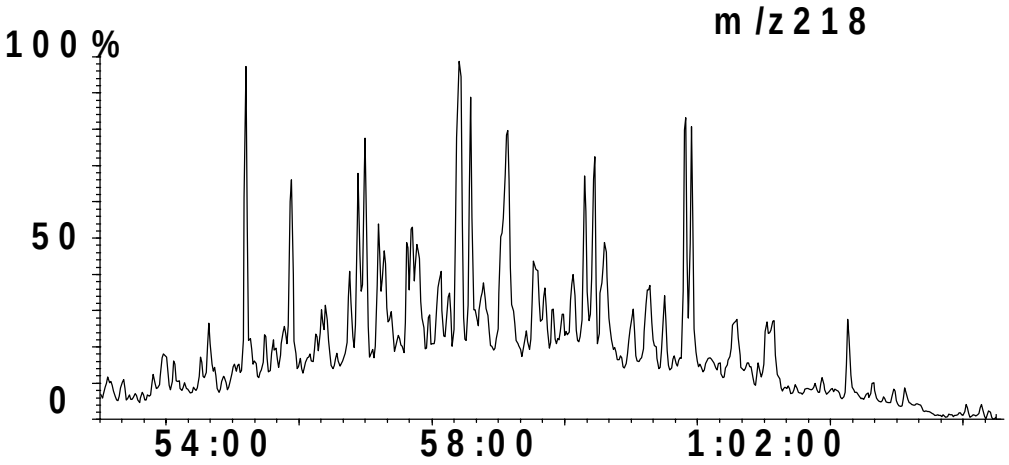


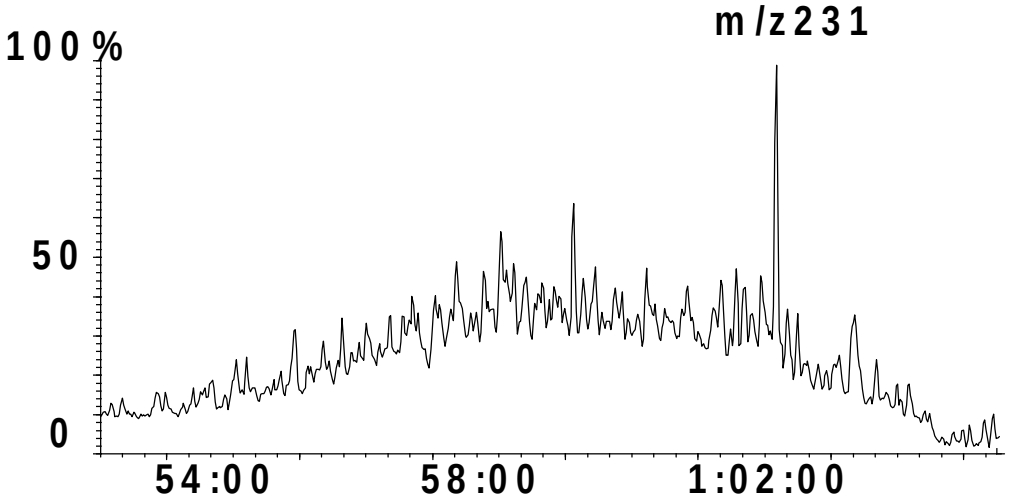




Country: **Australia**	Depth: **4257-4260m**	10-Jun-98
Basin: **Browse**	Age: **129.5** **(Ma)**	Sample ID: **9561**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**1844.04-1847.09m**		10-Jun-98
Basin:	**Browse**	Age:	**191.9** **(Ma)**	Sample ID:	**9629**
Well:	**Lynher 1**	Formation:		Lat:	**-15.9401**
Test:				Long:	**121.083065**

BULK PROPERTIES:

Rock Eval:

Tmax	**433**
S1:	**0.24**
S2:	**2.69**
S3:	**6.78**
TOC	**8.191**
HI:	**120.0**
OI:	**302.6**
PI:	**0.396**
PC:	**2.24**
S2/S3:	**0.24**

C15+ Composition

EOM ppm:	**3531**
HC ppm:	**479**
mgHC/gTOC	**584.2**
% Sat:	**8.0**
% Aro:	**16.4**
% NSO:	**75.6**
% Asph:	**0.0**
Sats/Aro	**0.49**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.89**
C15+ Aromatic:	**-25.24**
kerogen:	
Canonical Variable	**2.88**

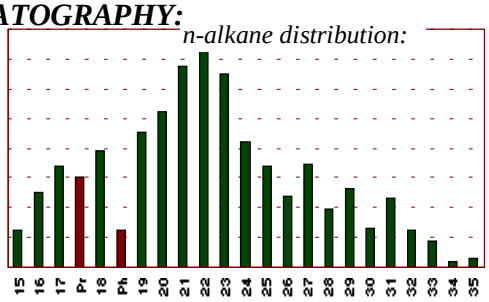
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

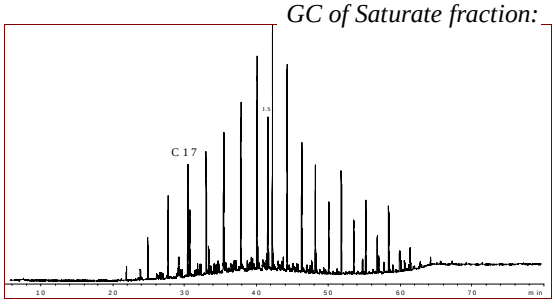
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.41**
Pr/n-C17:	**0.89**
Ph/n-C18:	**0.32**
n-C27/n-C17:	**1.01**
CPI 1:	**1.23**

n-alkane distribution:



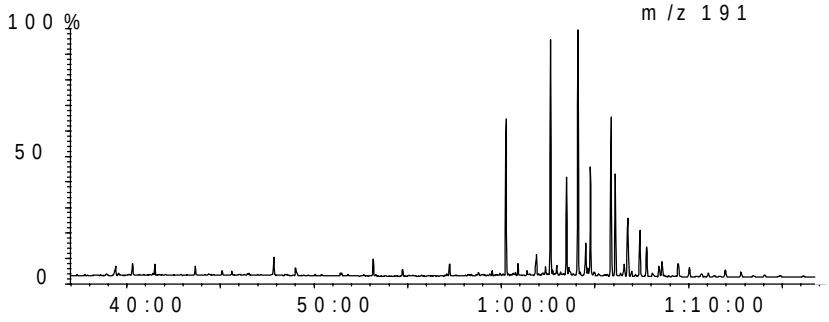
GC of Saturate fraction:



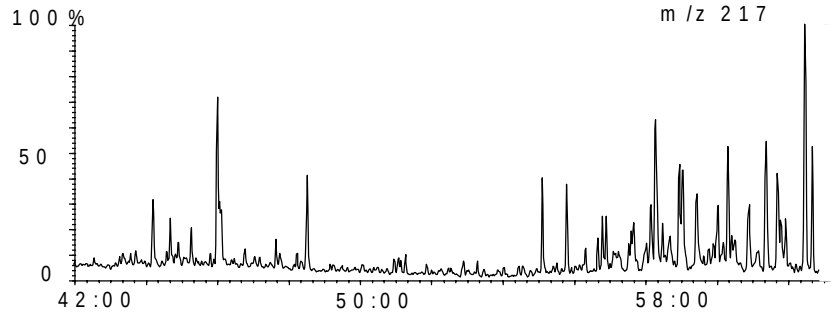
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.53**
C22/C21=	**0.43**
C24/C23=	**0.40**
C26/C25=	**0.62**
Tet/C23=	**0.95**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.96**
C30X/H=	**0.04**
Ol/H=	**0.01**
C31R/H=	**0.42**
GA/C31R=	**0.11**
C35S/C34S=	**0.24**
Ster/Terp=	**0.04**
Rearr/Reg=	**0.95**
%C27=	**24.60**
%C28=	**15.03**
%C29=	**60.38**
C29 20S/R=	**0.51**
Ts/Tm=	**0.03**
C29D/H=	**0.02**
DM/H=	**0.00**

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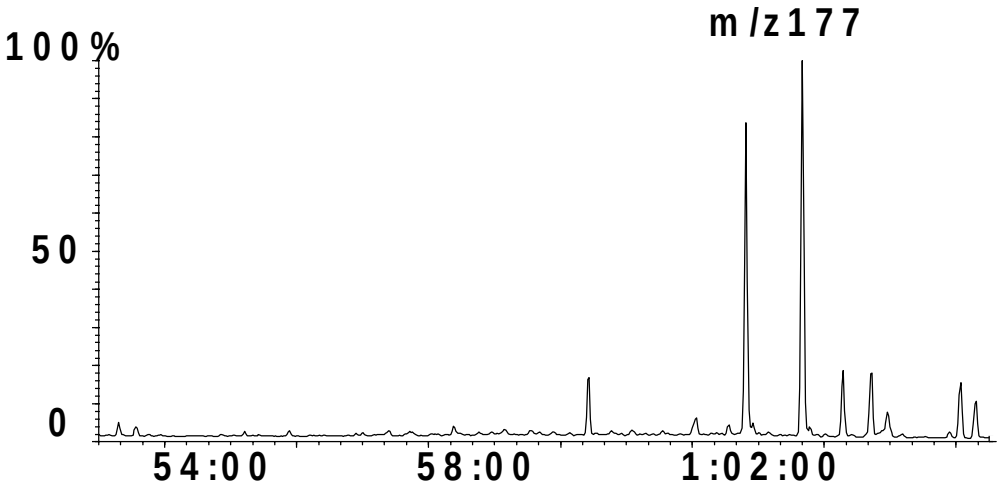
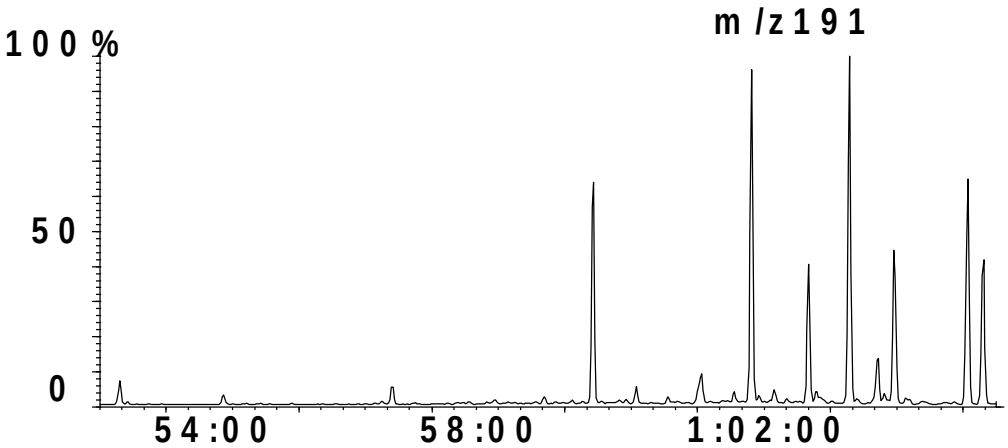
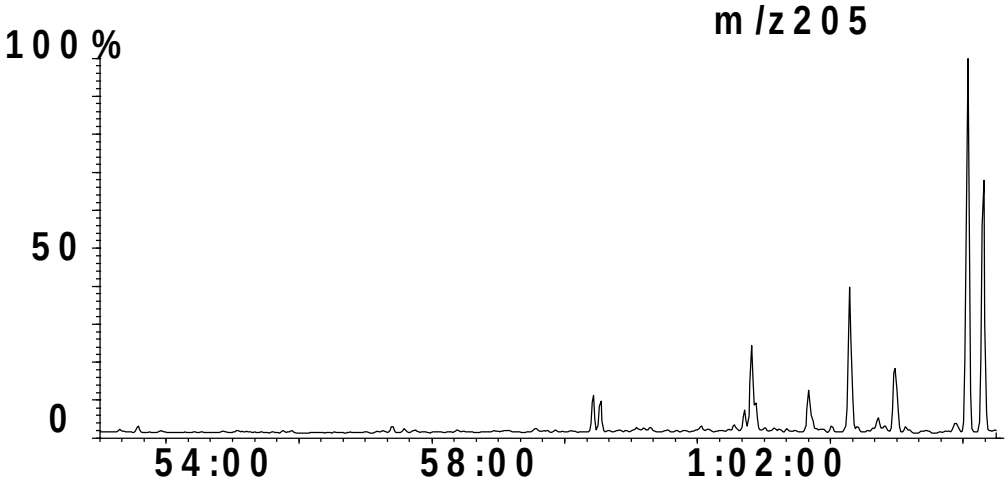
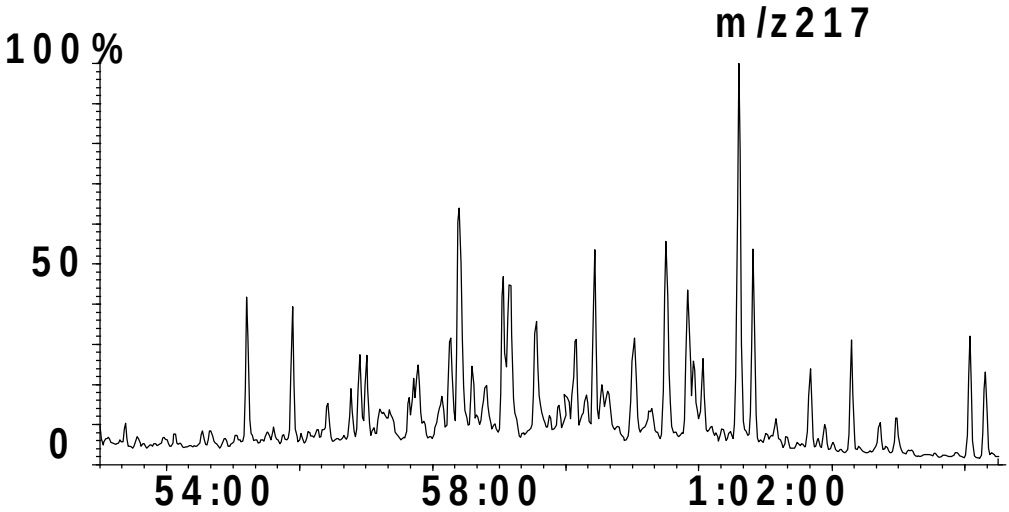
Country: **Australia**	Depth: **1844.04-1847.09m**	10-Jun-98
Basin: **Browse**	Age: **191.9** **(Ma)**	Sample ID: **9629**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**

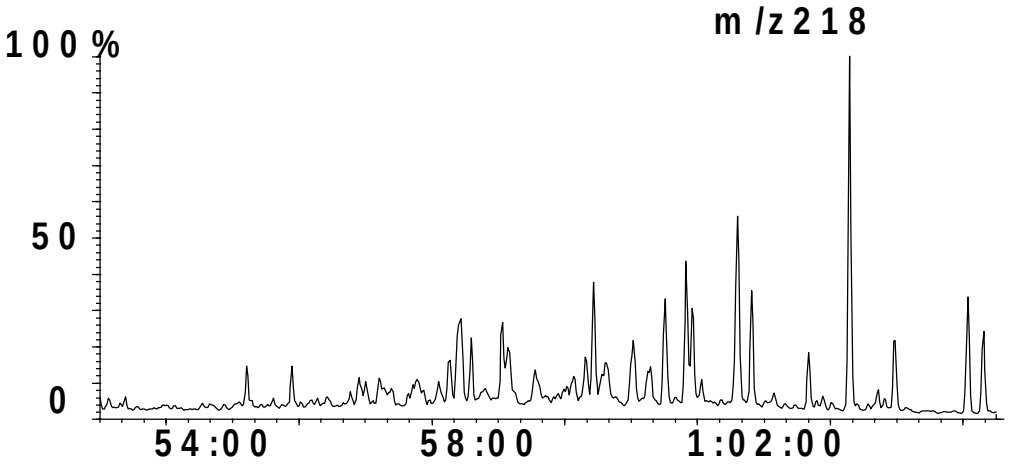


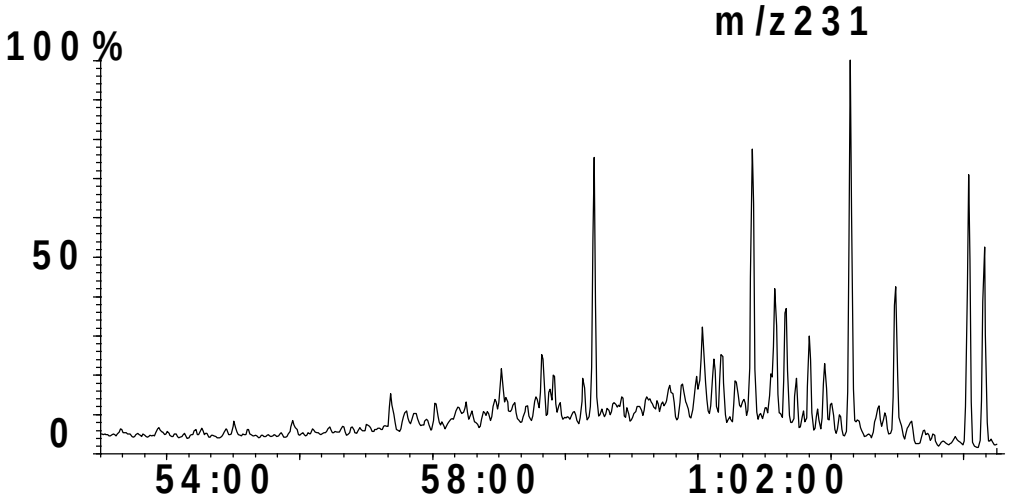




Country: **Australia**	Depth: **1844.04-1847.09m**	10-Jun-98
Basin: **Browse**	Age: **191.9** **(Ma)**	Sample ID: **9629**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**2389.63-2392.68m**		10-Jun-98
Basin:	**Browse**	Age:	**205.1** **(Ma)**	Sample ID:	**9631**
Well:	**Lynher 1**	Formation:		Lat:	**-15.9401**
Test:				Long:	**121.083065**

BULK PROPERTIES:

Rock Eval:

Tmax	**429**
S1:	**0.03**
S2:	**0.28**
S3:	**0**
TOC	**9.677**
HI:	**44.44**
OI:	**0**
PI:	**0**
PC:	**0.63**
S2/S3:	**0.03**

C15+ Composition

EOM ppm:	**736**
HC ppm:	**356**
mgHC/gTOC	**367.9**
% Sat:	**38.5**
% Aro:	**1.8**
% NSO:	**59.6**
% Asph:	**0.0**
Sats/Aro	**21.00**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.54**
C15+ Aromatic:	
kerogen:	
Canonical Variable	

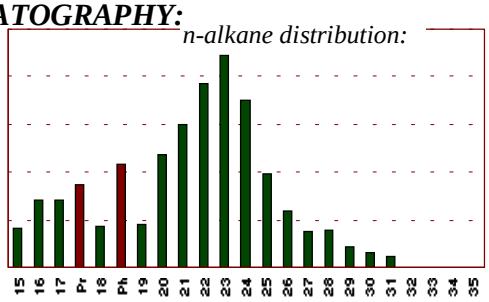
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

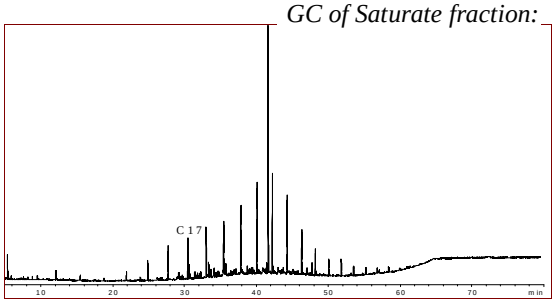
GAS CHROMATOGRAPHY:

Pr/Ph:	**0.81**
Pr/n-C17:	**1.24**
Ph/n-C18:	**2.49**
n-C27/n-C17:	**0.54**
CPI 1:	**1.01**

n-alkane distribution:



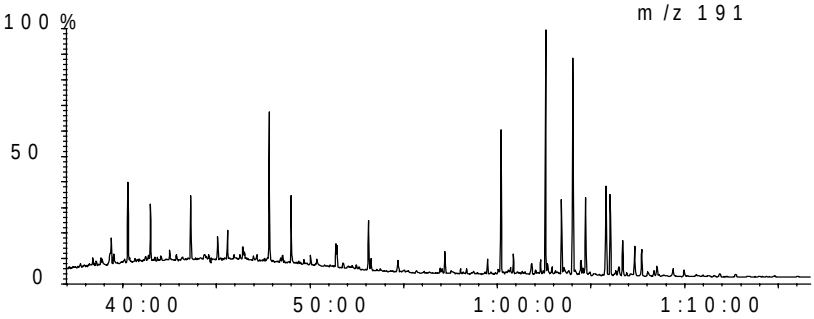
GC of Saturate fraction:



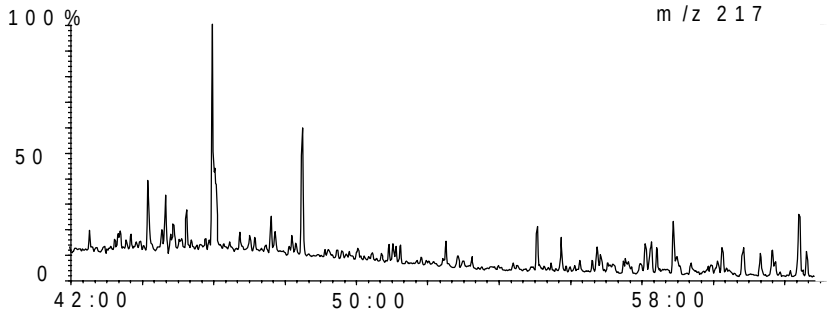
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.17**
C22/C21=	**0.45**
C24/C23=	**0.45**
C26/C25=	**0.51**
Tet/C23=	**0.33**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**1.13**
C30X/H=	**0.03**
Ol/H=	**0.01**
C31R/H=	**0.37**
GA/C31R=	**0.10**
C35S/C34S=	**0.41**
Ster/Terp=	**0.08**
Rearr/Reg=	**0.84**
%C27=	**36.23**
%C28=	**19.14**
%C29=	**44.62**
C29 20S/R=	**0.35**
Ts/Tm=	**0.10**
C29D/H=	**0.04**
DM/H=	**0.00**

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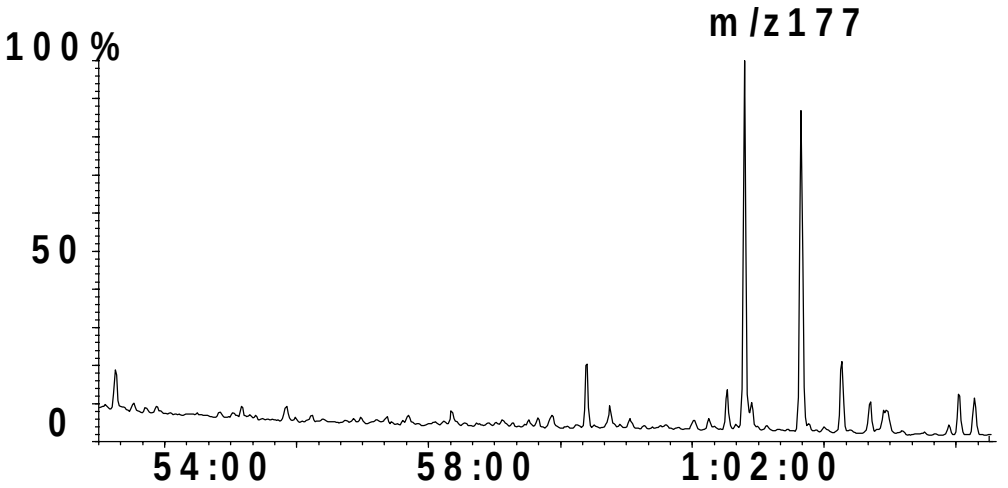
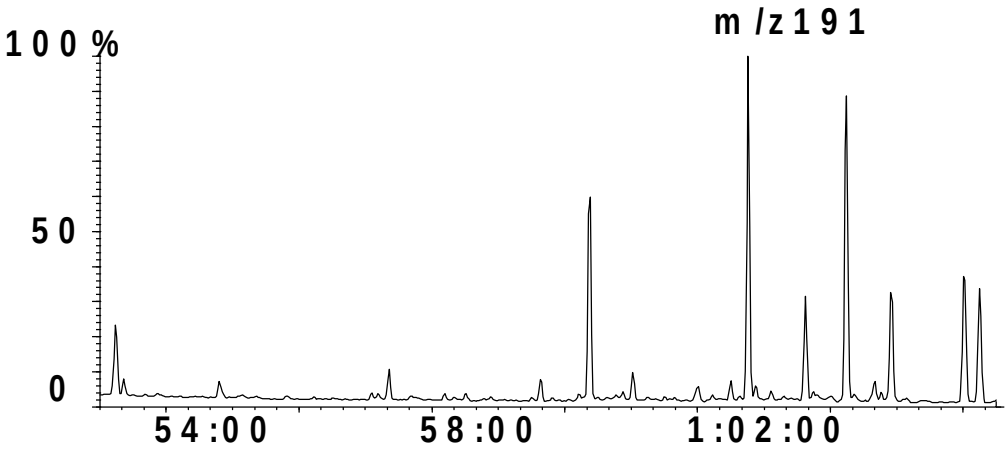
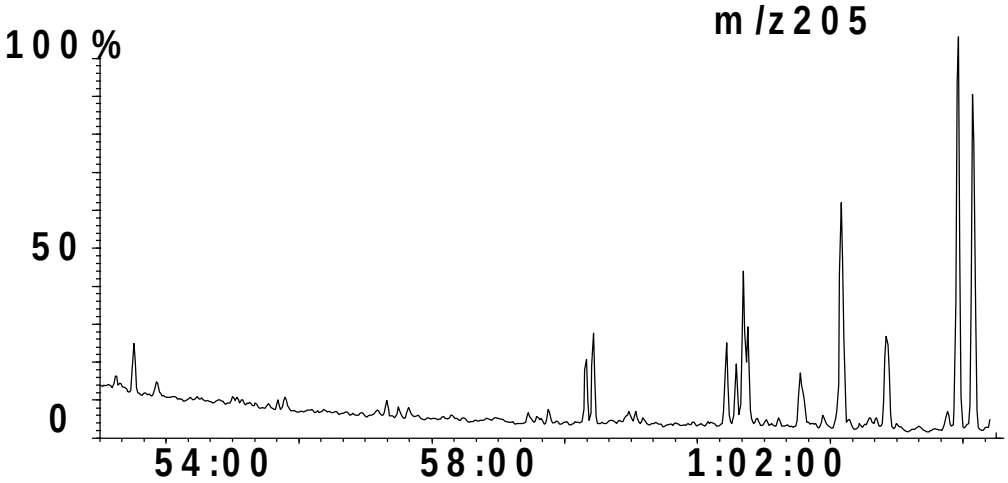
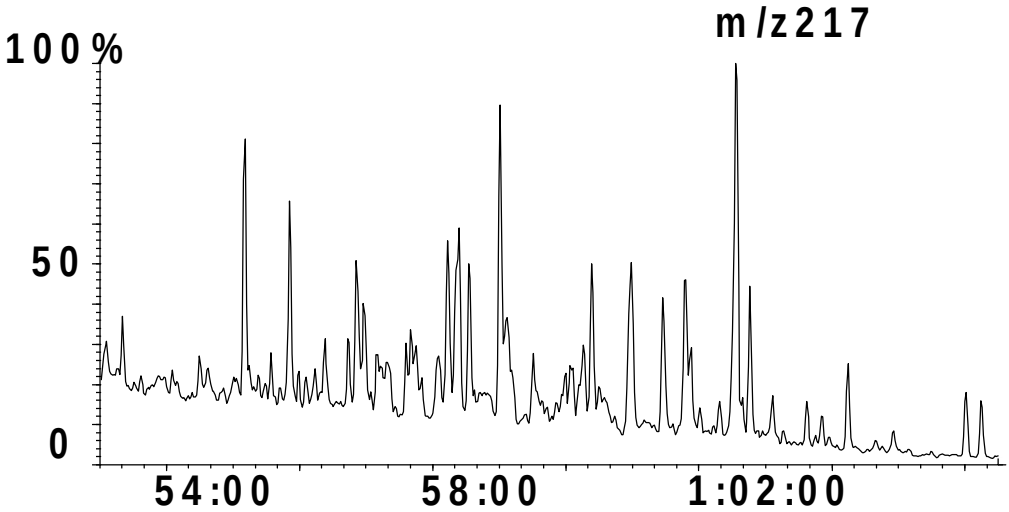
Country: **Australia**	Depth: **2389.63-2392.68m**	10-Jun-98
Basin: **Browse**	Age: **205.1** **(Ma)**	Sample ID: **9631**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**

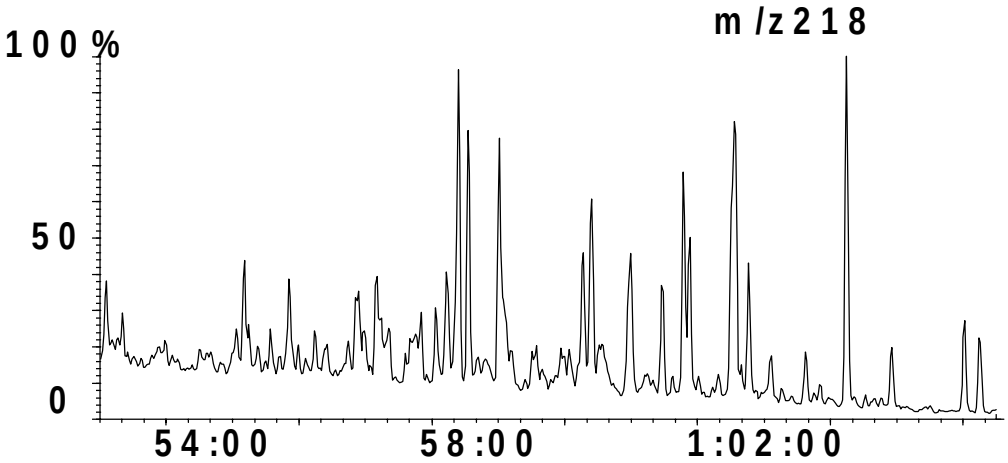


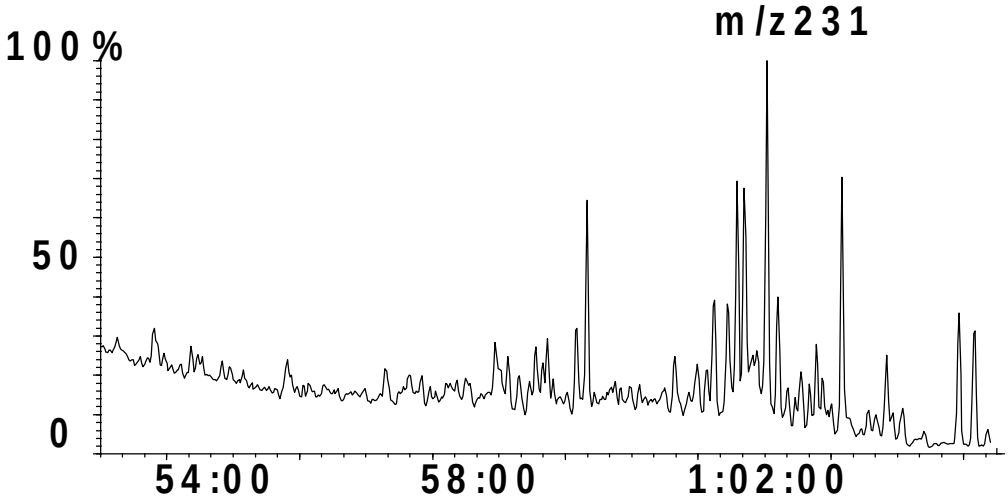




Country: **Australia**	Depth: **2389.63-2392.68m**	10-Jun-98
Basin: **Browse**	Age: **205.1** **(Ma)**	Sample ID: **9631**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Lynher 1**
Test:

Depth: **2679.19-2682.24m**
Age: **233** **(Ma)**
Formation:

10-Jun-98
Sample ID: **9633**
Lat: **-15.9401**
Long: **121.083065**

BULK PROPERTIES:

Rock Eval:

Tmax	**427**
S1:	**0.05**
S2:	**0.39**
S3:	**0.86**
TOC	**0.11**
HI:	**38.61**
OI:	**85.14**
PI:	**0.453**
PC:	**1.01**
S2/S3:	**0.04**

C15+ Composition

EOM ppm:	**751**
HC ppm:	**188**
mgHC/gTOC	**170.7**
% Sat:	**29.6**
% Aro:	**2.8**
% NSO:	**67.6**
% Asph:	**0.0**
Sats/Aro	**10.50**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.55**
C15+ Aromatic:	
kerogen:	
Canonical Variable	

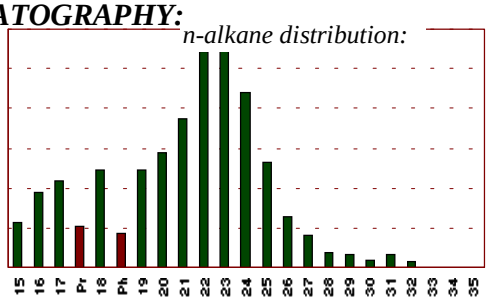
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

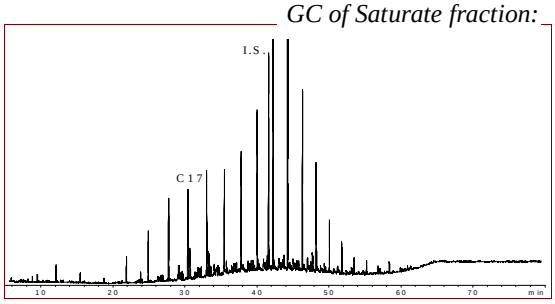
GAS CHROMATOGRAPHY:

Pr/Ph:	**1.20**
Pr/n-C17:	**0.47**
Ph/n-C18:	**0.34**
n-C27/n-C17:	**0.38**
CPI 1:	**1.10**

n-alkane distribution:



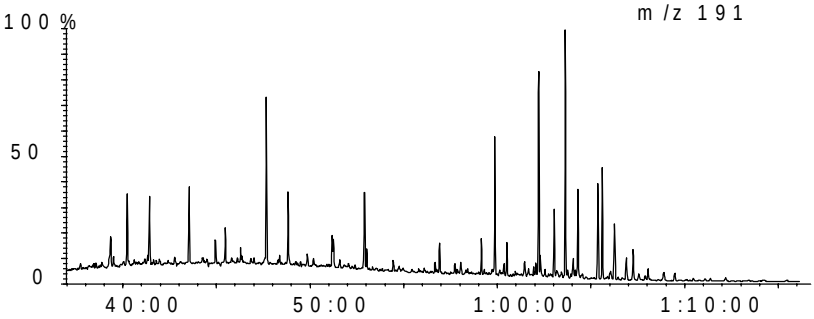
GC of Saturate fraction:



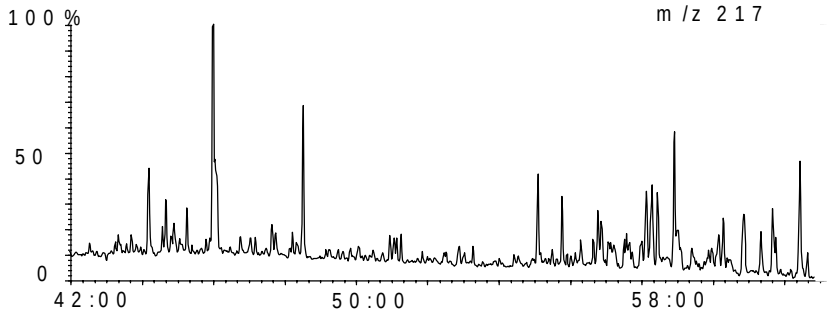
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.18**
C22/C21=	**0.46**
C24/C23=	**0.43**
C26/C25=	**0.67**
Tet/C23=	**0.46**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.83**
C30X/H=	**0.02**
Ol/H=	**0.01**
C31R/H=	**0.45**
GA/C31R=	**0.07**
C35S/C34S=	**0.46**
Ster/Terp=	**0.17**
Rearr/Reg=	**0.69**
%C27=	**43.62**
%C28=	**18.34**
%C29=	**38.04**
C29 20S/R=	**0.35**
Ts/Tm=	**0.26**
C29D/H=	**0.10**
DM/H=	**0.00**

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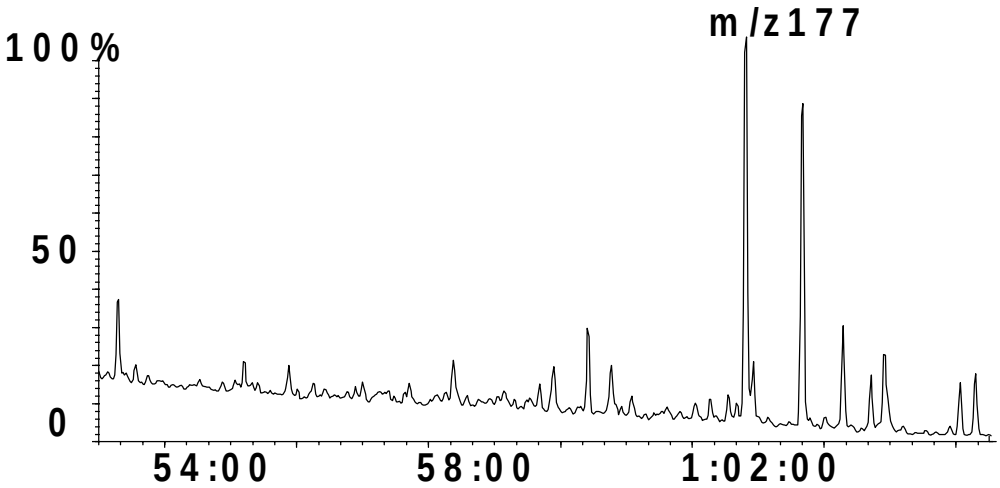
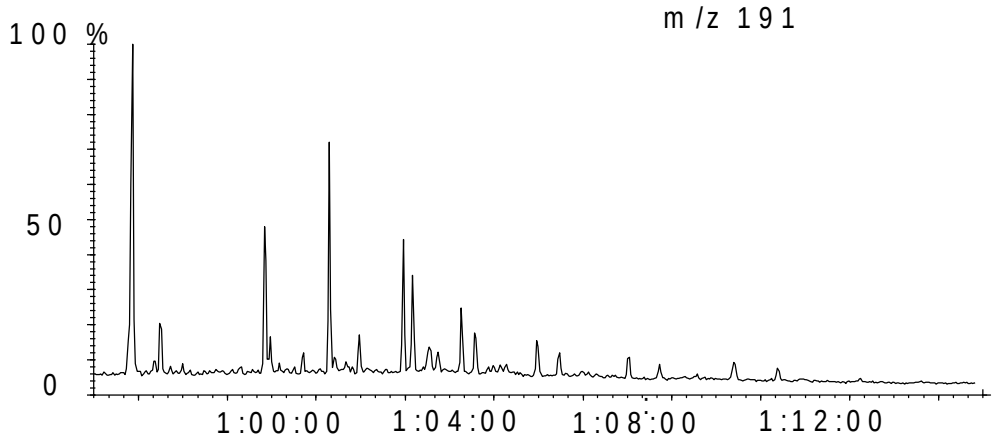
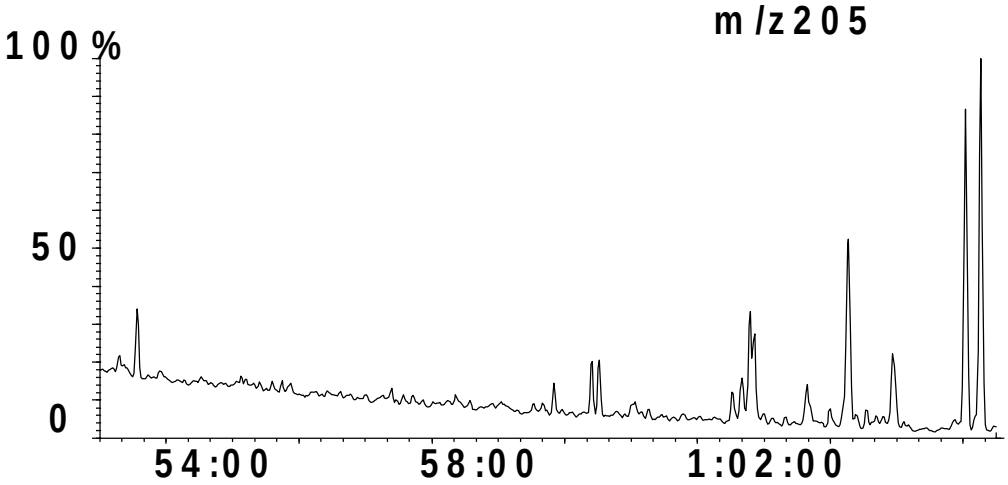
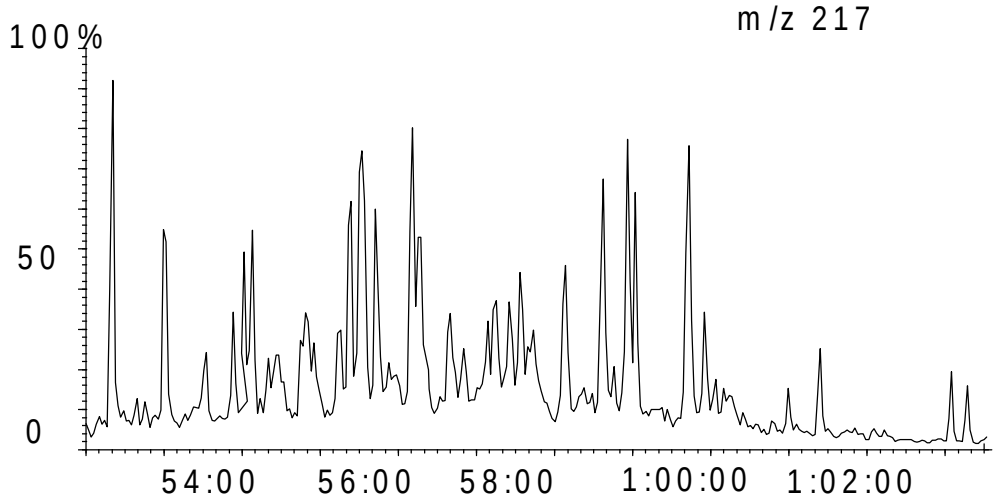
Country: **Australia**	Depth: **2679.19-2682.24m**	10-Jun-98
Basin: **Browse**	Age: **233** **(Ma)**	Sample ID: **9633**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**

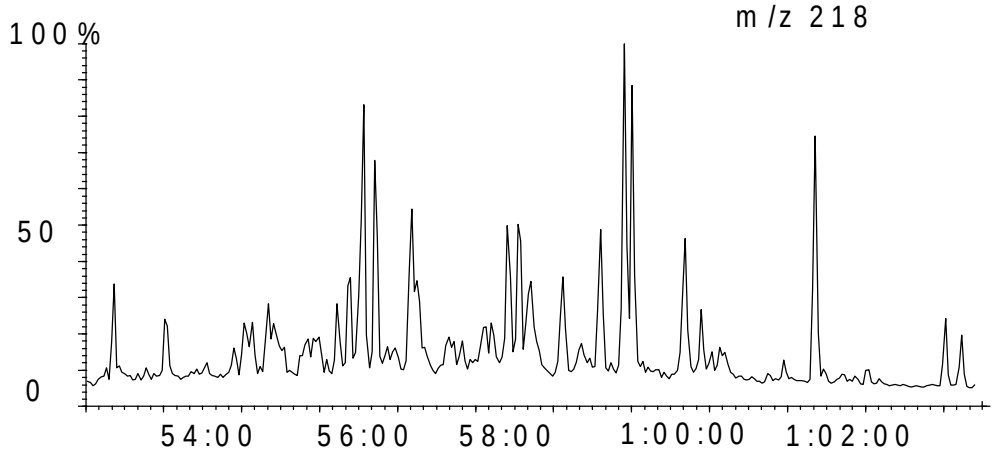


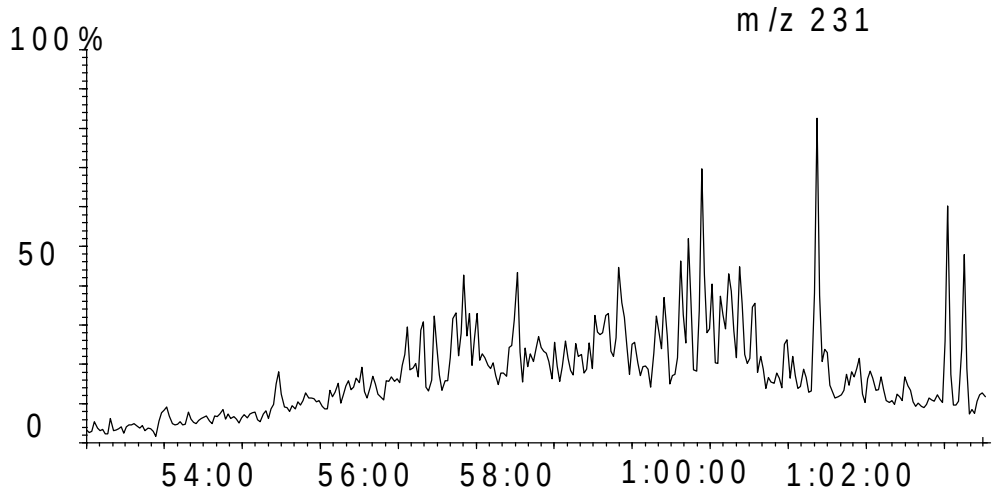




Country: **Australia**	Depth: **2679.19-2682.24m**	10-Jun-98
Basin: **Browse**	Age: **233** **(Ma)**	Sample ID: **9633**
Well: **Lynher 1**	Formation:	Lat: **-15.9401**
Test:		Long: **121.083065**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Yampi 2**
Test:

Depth: **3104-3107m**
Age: **147.1** **(Ma)**
Formation:

10-Jun-98
Sample ID: **9636**
Lat: **-14.566519**
Long: **123.278578**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**0.27**
S2:	**0.9**
S3:	**2.47**
TOC	**0.23**
HI:	**105.8**
OI:	**290.5**
PI:	**0.364**
PC:	**0.85**
S2/S3:	**0.10**

C15+ Composition

EOM ppm:	**2315**
HC ppm:	**432**
mgHC/gTOC	**187.8**
% Sat:	**24.6**
% Aro:	**21.9**
% NSO:	**53.5**
% Asph:	**0.0**
Sats/Aro	**1.12**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.62**
C15+ Aromatic:	**-26.79**
kerogen:	
Canonical Variable	**-1.25**

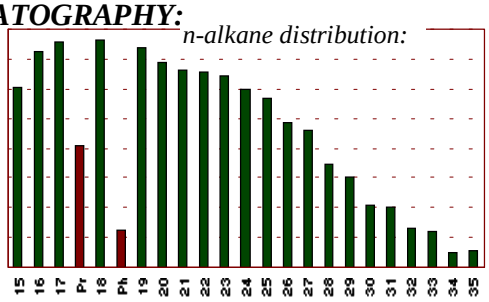
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

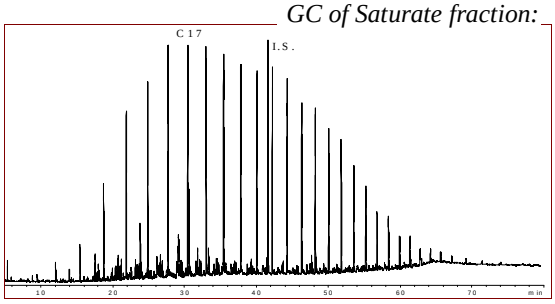
GAS CHROMATOGRAPHY:

Pr/Ph:	**3.26**
Pr/n-C17:	**0.55**
Ph/n-C18:	**0.17**
n-C27/n-C17:	**0.61**
CPI 1:	**1.06**

n-alkane distribution:



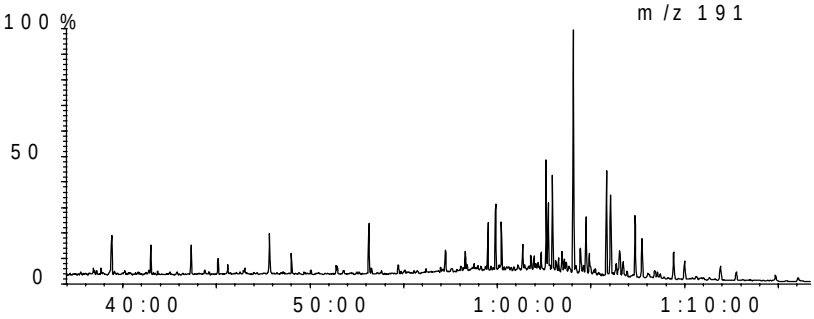
GC of Saturate fraction:



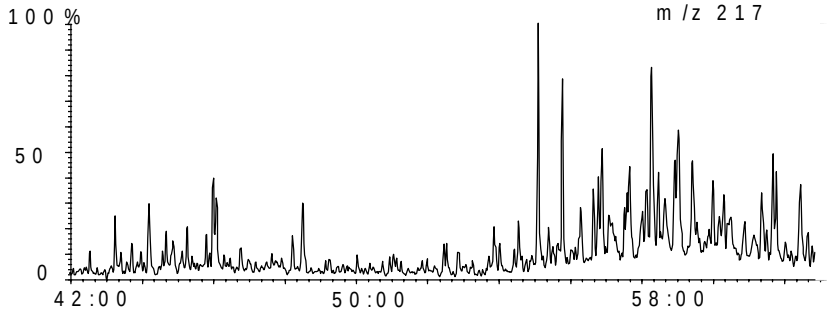
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.96**
C22/C21=	**0.31**
C24/C23=	**0.50**
C26/C25=	**0.68**
Tet/C23=	**1.26**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.45**
C30X/H=	**0.39**
Ol/H=	**0.02**
C31R/H=	**0.33**
GA/C31R=	**0.31**
C35S/C34S=	**0.44**
Ster/Terp=	**0.12**
Rearr/Reg=	**2.95**
%C27=	**44.22**
%C28=	**14.73**
%C29=	**41.05**
C29 20S/R=	**0.77**
Ts/Tm=	**1.00**
C29D/H=	**0.61**
DM/H=	**0.00**

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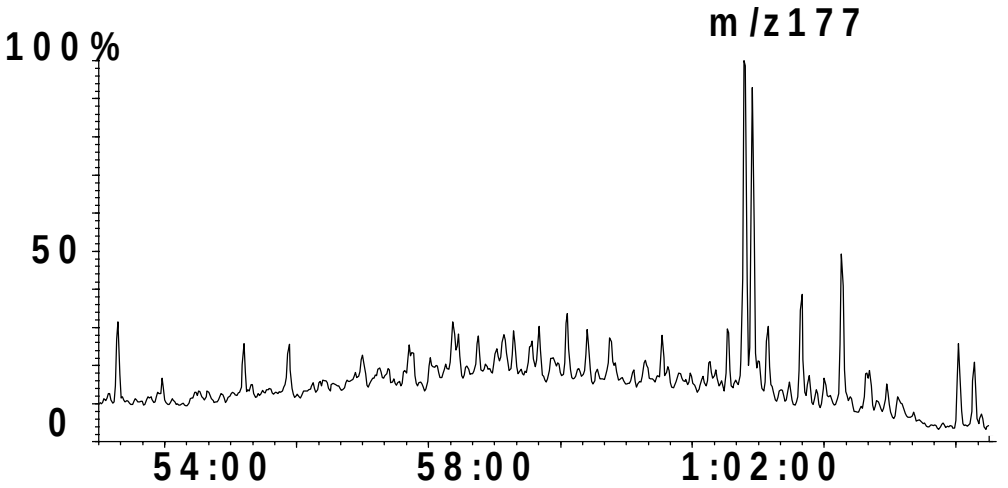
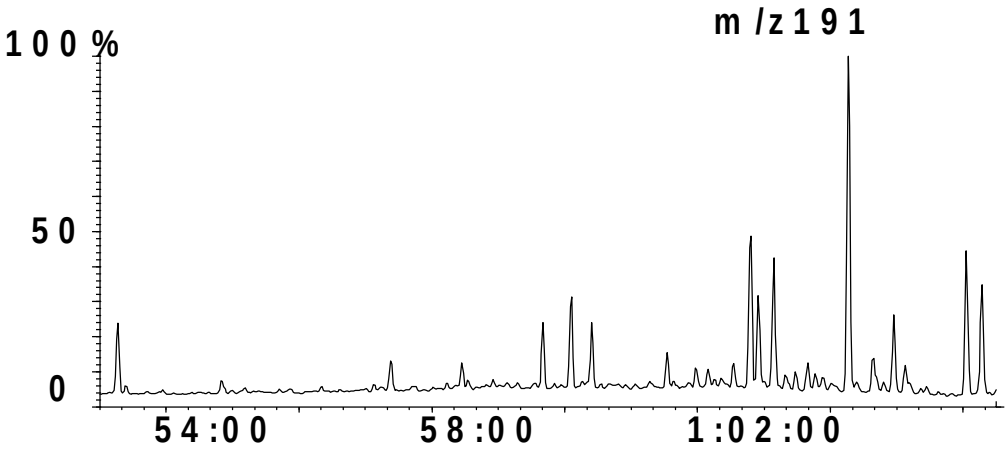
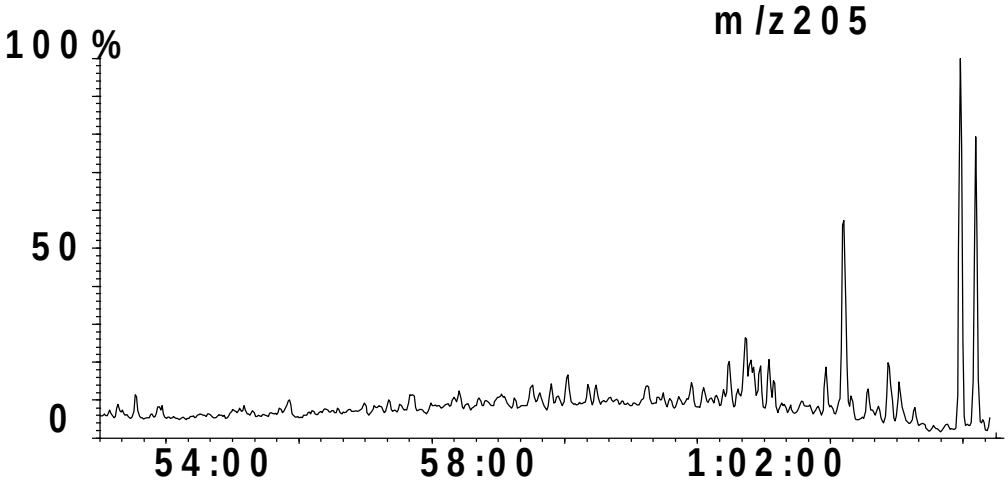
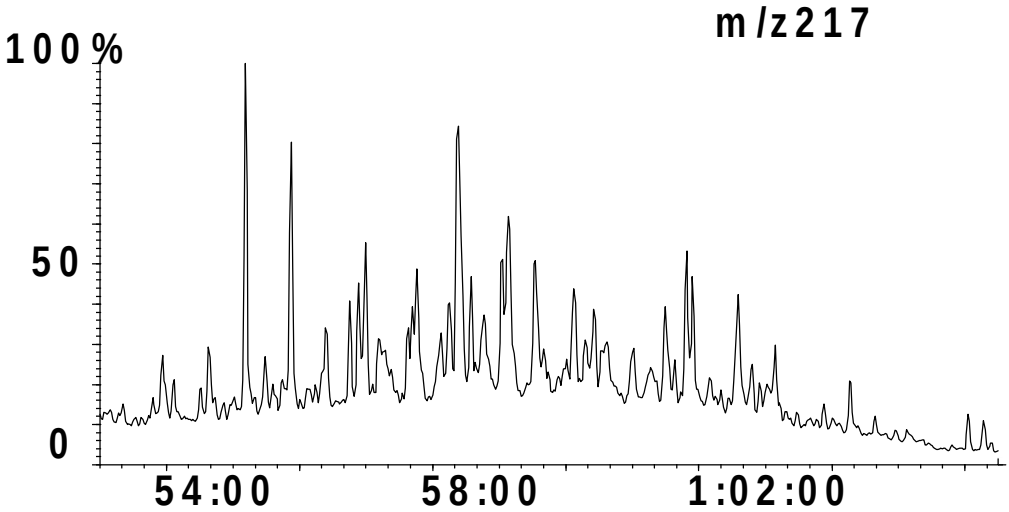
Country: **Australia**	Depth: **3104-3107m**	10-Jun-98
Basin: **Browse**	Age: **147.1** **(Ma)**	Sample ID: **9636**
Well: **Yampi 2**	Formation:	Lat: **-14.566519**
Test:		Long: **123.278578**

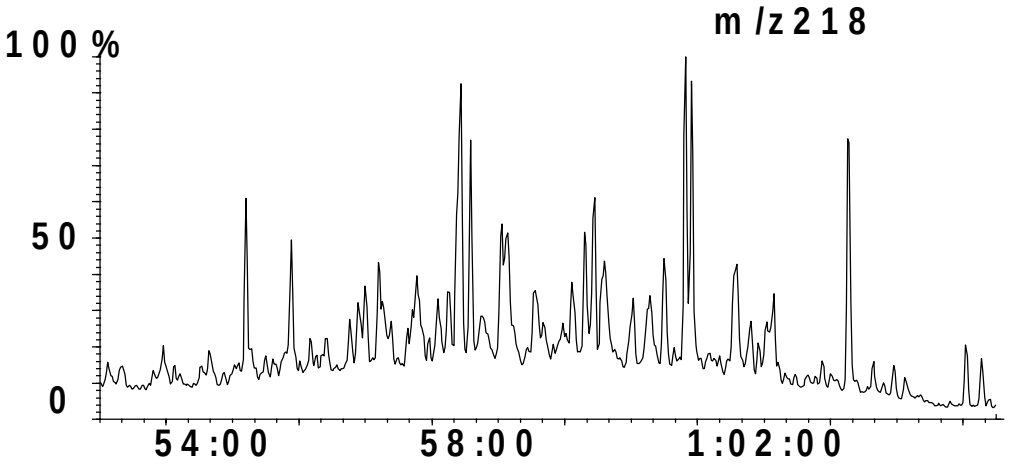


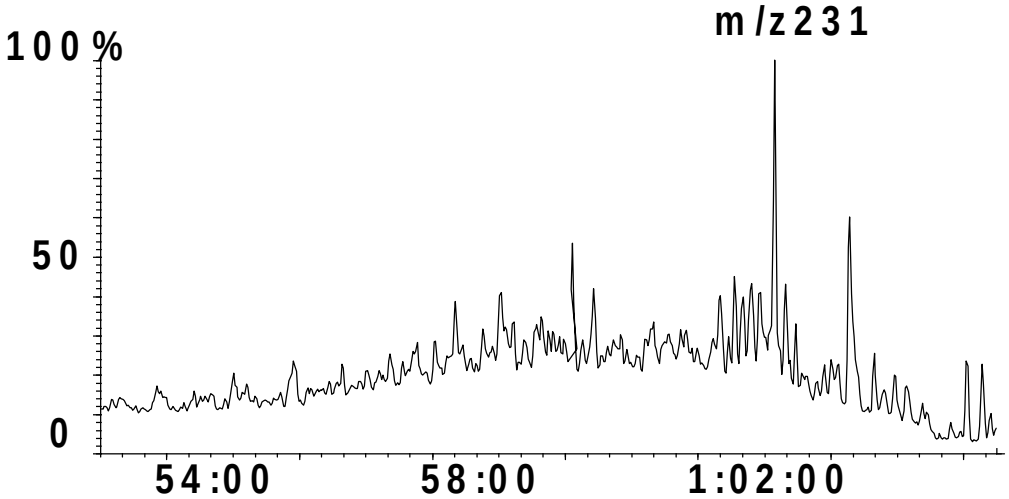




Country: **Australia**	Depth: **3104-3107m**	10-Jun-98
Basin: **Browse**	Age: **147.1** **(Ma)**	Sample ID: **9636**
Well: **Yampi 2**	Formation:	Lat: **-14.566519**
Test:		Long: **123.278578**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country:	**Australia**	Depth:	**3119-3122m**		10-Jun-98
Basin:	**Browse**	Age:	**153.9** **(Ma)**	Sample ID:	**9637**
Well:	**Yampi 2**	Formation:		Lat:	**-14.566519**
Test:				Long:	**123.278578**

BULK PROPERTIES:

Rock Eval:

Tmax	**435**
S1:	**0.28**
S2:	**0.99**
S3:	**4.56**
TOC	**0.220**
HI:	**96.11**
OI:	**442.7**
PI:	**0.217**
PC:	**1.03**
S2/S3:	**0.11**

C15+ Composition

EOM ppm:	**1521**
HC ppm:	**559**
mgHC/gTOC	**253.6**
% Sat:	**26.7**
% Aro:	**18.7**
% NSO:	**54.7**
% Asph:	**0.0**
Sats/Aro	**1.43**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-27.73**
C15+ Aromatic:	**-26.82**
kerogen:	
Canonical Variable	**-1.03**

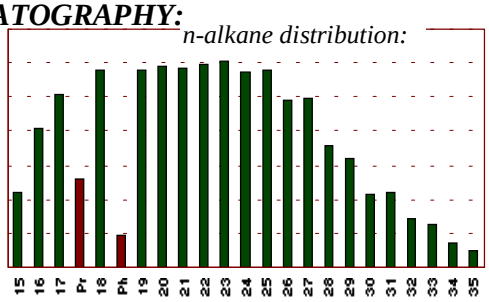
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

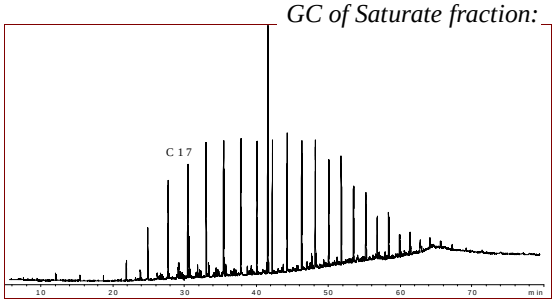
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.81**
Pr/n-C17:	**0.51**
Ph/n-C18:	**0.16**
n-C27/n-C17:	**0.97**
CPI 1:	**1.09**

n-alkane distribution:



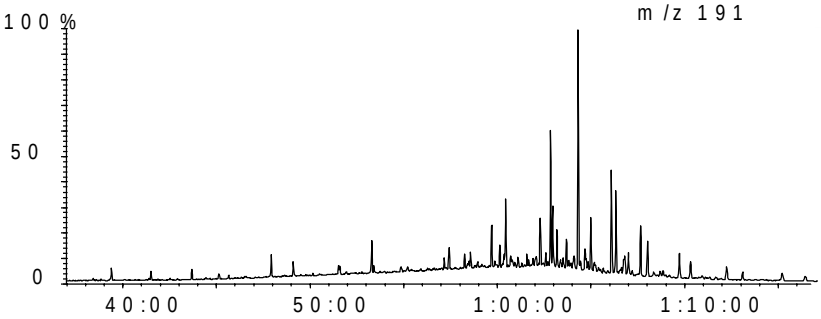
GC of Saturate fraction:



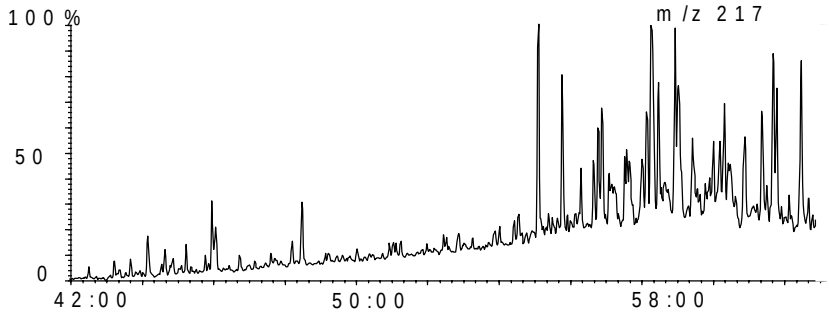
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.54**
C22/C21=	**0.35**
C24/C23=	**0.63**
C26/C25=	**0.86**
Tet/C23=	**1.42**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.57**
C30X/H=	**0.15**
Ol/H=	**0.05**
C31R/H=	**0.34**
GA/C31R=	**0.22**
C35S/C34S=	**0.61**
Ster/Terp=	**0.18**
Rearr/Reg=	**1.20**
%C27=	**43.05**
%C28=	**17.69**
%C29=	**39.26**
C29 20S/R=	**0.63**
Ts/Tm=	**0.61**
C29D/H=	**0.44**
DM/H=	**0.00**

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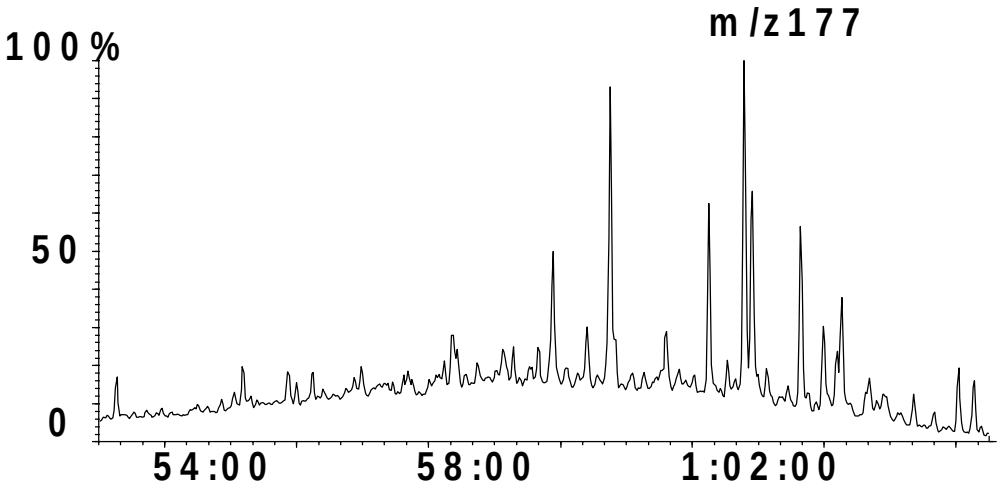
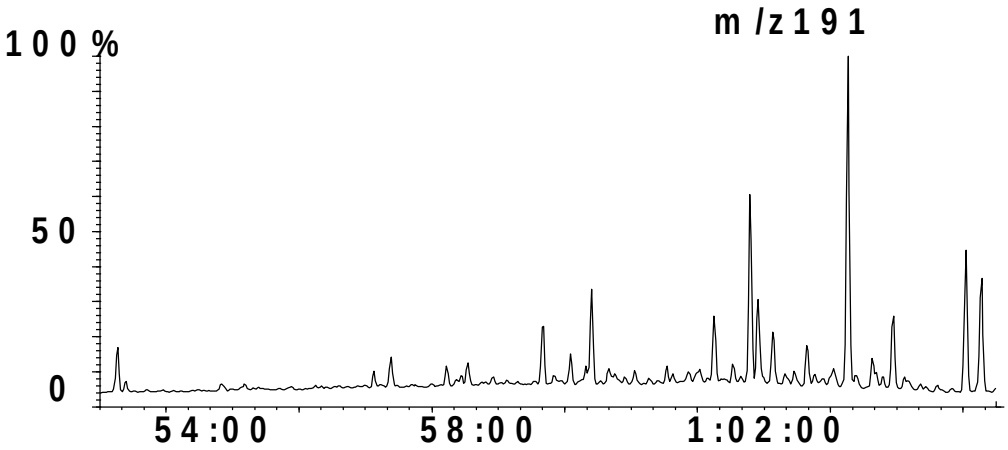
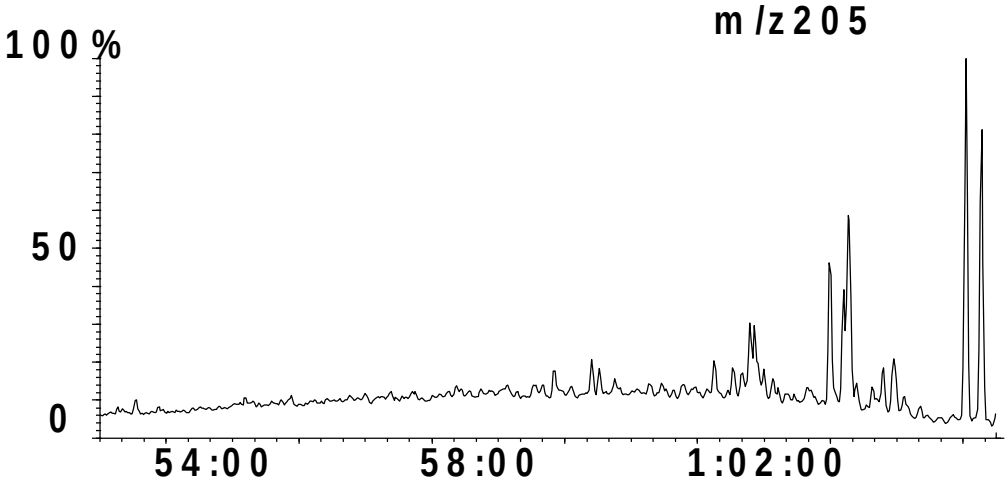
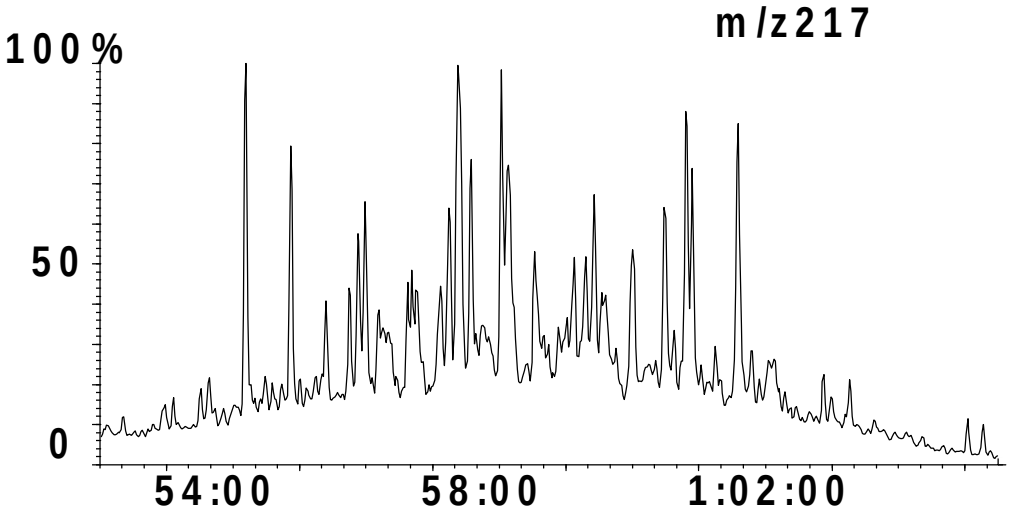
Country: **Australia**	Depth: **3119-3122m**	10-Jun-98
Basin: **Browse**	Age: **153.9** **(Ma)**	Sample ID: **9637**
Well: **Yampi 2**	Formation:	Lat: **-14.566519**
Test:		Long: **123.278578**

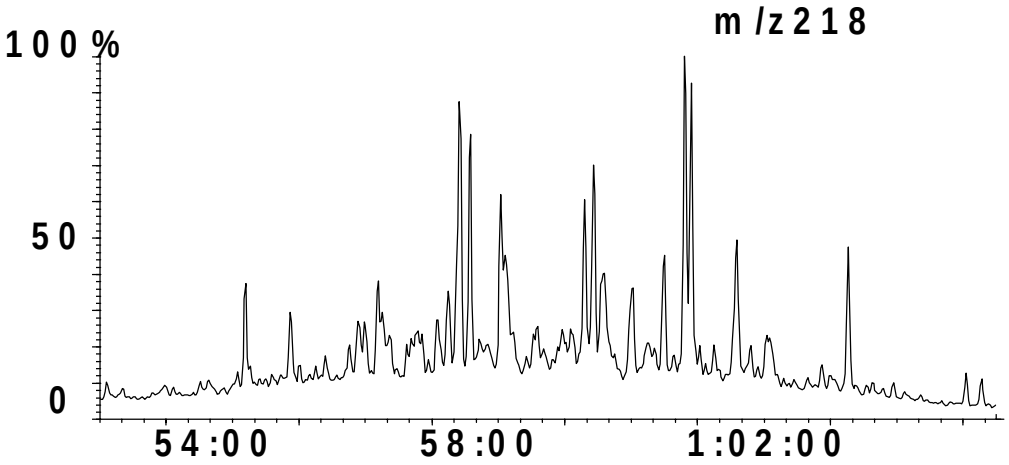


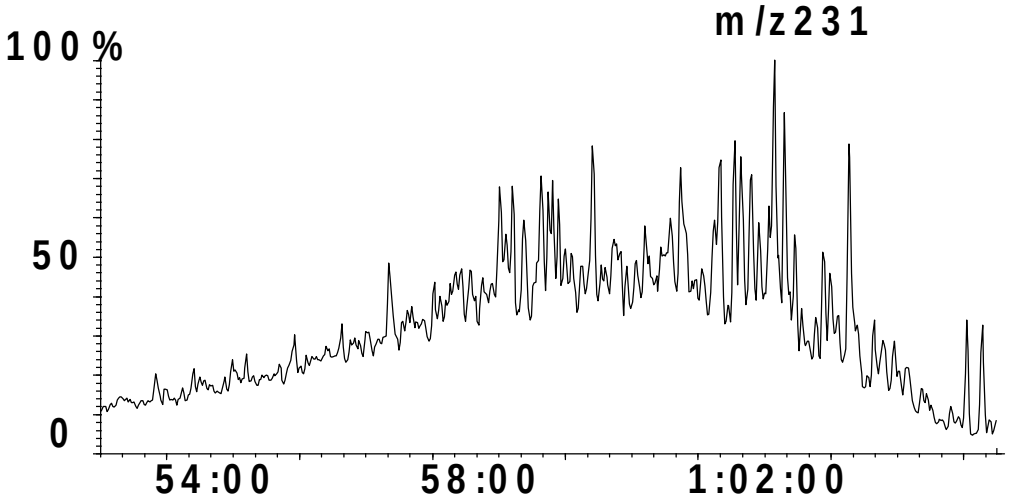




Country: **Australia**	Depth: **3119-3122m**	10-Jun-98
Basin: **Browse**	Age: **153.9** **(Ma)**	Sample ID: **9637**
Well: **Yampi 2**	Formation:	Lat: **-14.566519**
Test:		Long: **123.278578**







NWShelf Source Rock Study

GEOCHEMICAL SUMMARY SHEET

Australian Geological Survey Organisation

Country: **Australia**
Basin: **Browse**
Well: **Kalyptea 1/ST1**
Test:

Depth: **4281-4284m**
Age: **131.5** **(Ma)**
Formation:

10-Jun-98
Sample ID: **9638**
Lat: **-13.033205**
Long: **123.872319**

BULK PROPERTIES:

Rock Eval:

Tmax	**446**
S1:	**1.27**
S2:	**2.72**
S3:	**0.8**
TOC	**2.62**
HI:	**103.8**
OI:	**30.53**
PI:	**0.32**
PC:	**0.33**
S2/S3:	**3.40**

C15+ Composition

EOM ppm:	**4582**
HC ppm:	**1801**
mgHC/gTOC	**68.7**
% Sat:	**34.2**
% Aro:	**23.8**
% NSO:	**42.0**
% Asph:	**0.0**
Sats/Aro	**1.43**

Stable Carbon Isotope Composition,

δ per mil PDB

C15+ Saturate:	**-28.70**
C15+ Aromatic:	**-27.00**
kerogen:	
Canonical Variable	**1.02**

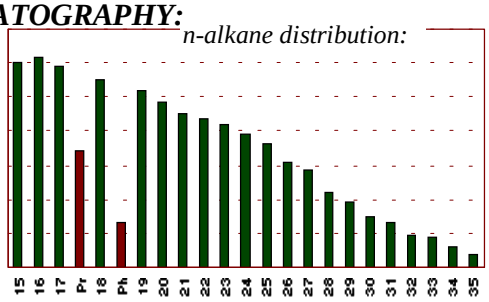
Elemental Composition

	C%	H%	N%	O%	S%
extract					
kerogen					

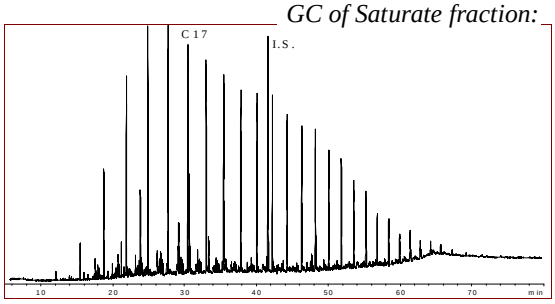
GAS CHROMATOGRAPHY:

Pr/Ph:	**2.58**
Pr/n-C17:	**0.58**
Ph/n-C18:	**0.24**
n-C27/n-C17:	**0.48**
CPI 1:	**1.04**

n-alkane distribution:



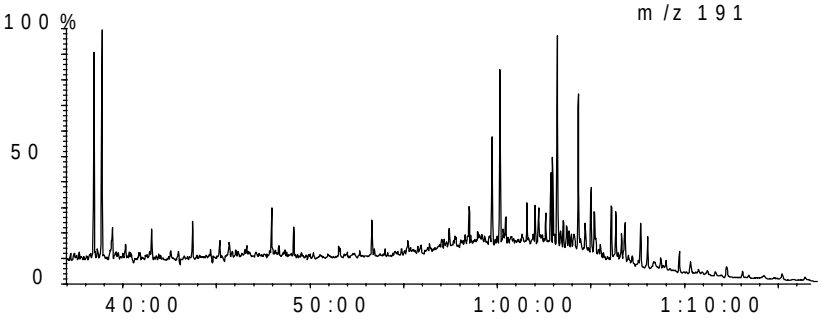
GC of Saturate fraction:



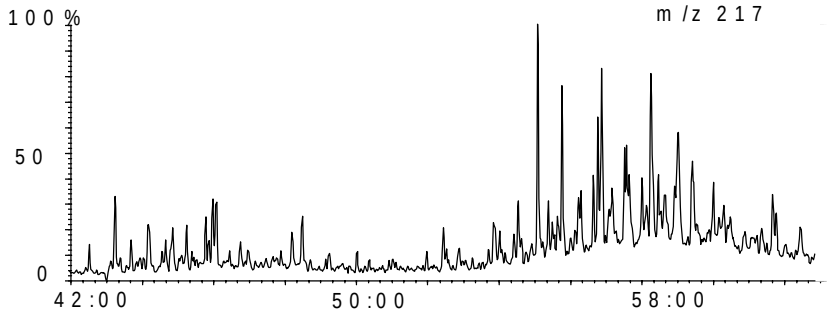
BIOMARKERS:

Comments: % Sterane based on 20R homologues derived from m/z 217

Terpanes



Steranes



OilMod Ratios

C19/C23=	**0.63**
C22/C21=	**0.36**
C24/C23=	**0.60**
C26/C25=	**0.67**
Tet/C23=	**0.76**
C27T/C27=	**0.00**
C28/H=	**0.00**
C29/H=	**0.45**
C30X/H=	**1.35**
Ol/H=	**0.09**
C31R/H=	**0.30**
GA/C31R=	**0.83**
C35S/C34S=	**0.58**
Ster/Terp=	**0.49**
Rearr/Reg=	**4.62**
%C27=	**54.38**
%C28=	**14.84**
%C29=	**30.77**
C29 20S/R=	**0.69**
Ts/Tm=	**4.66**
C29D/H=	**1.23**
DM/H=	**0.00**

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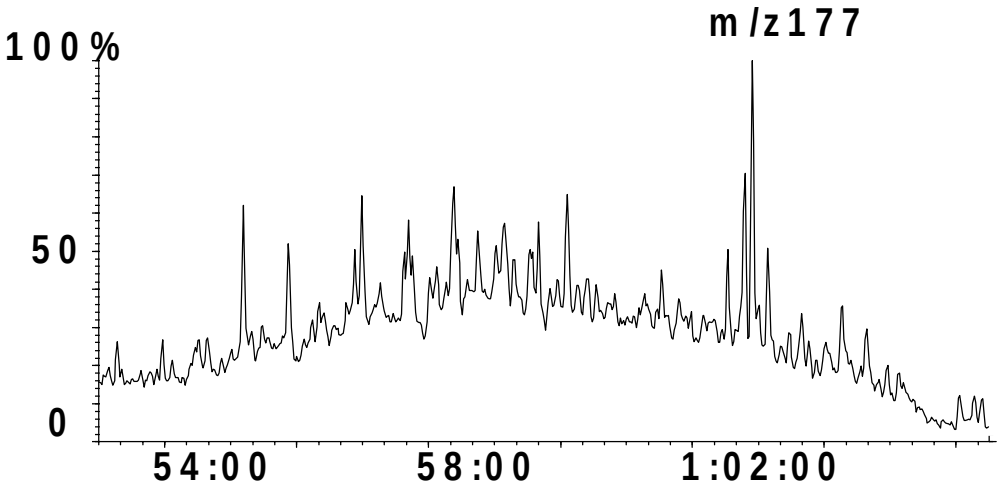
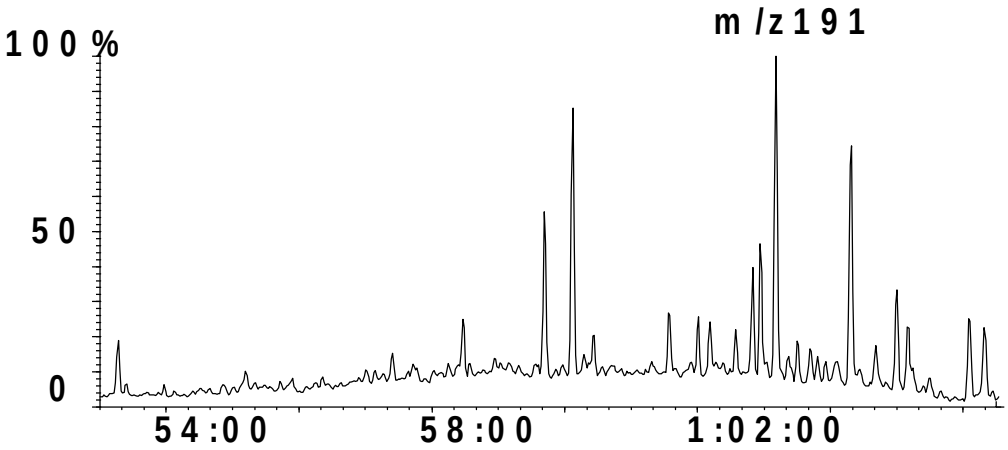
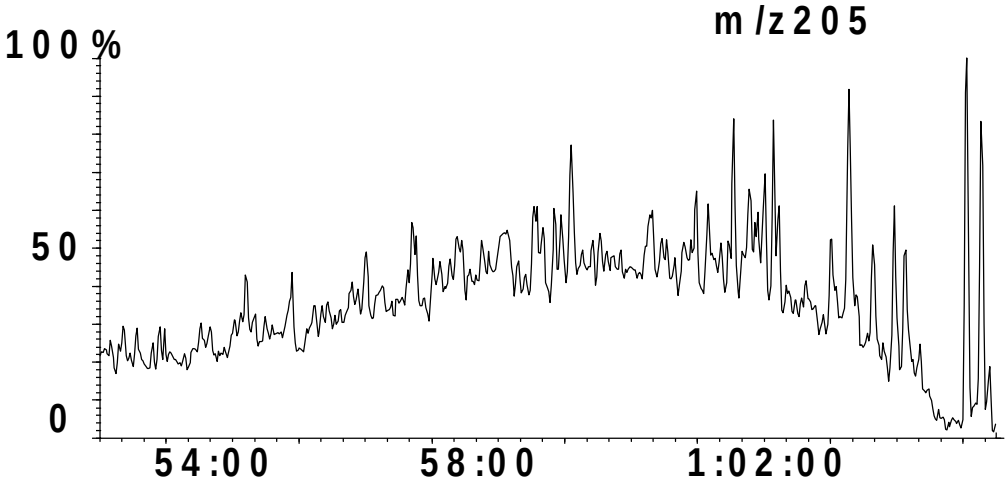
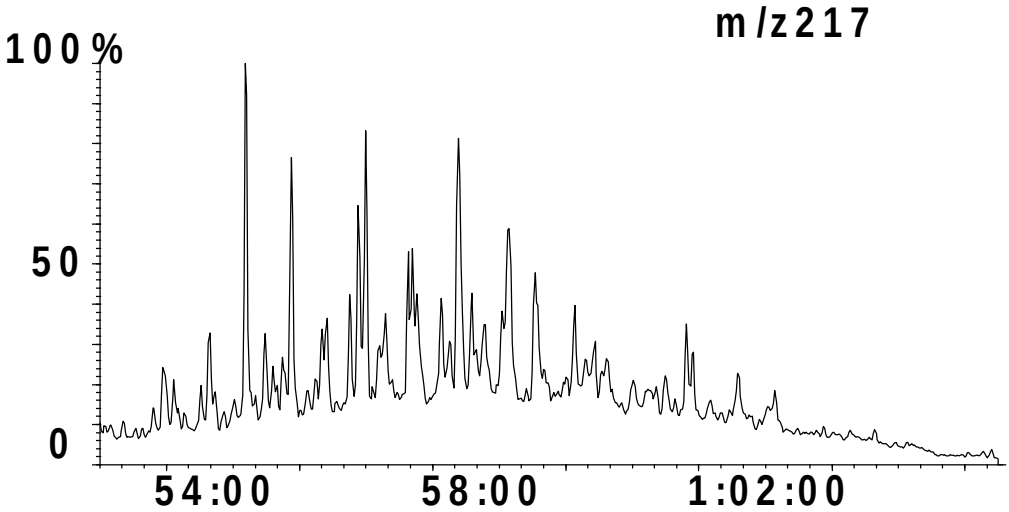
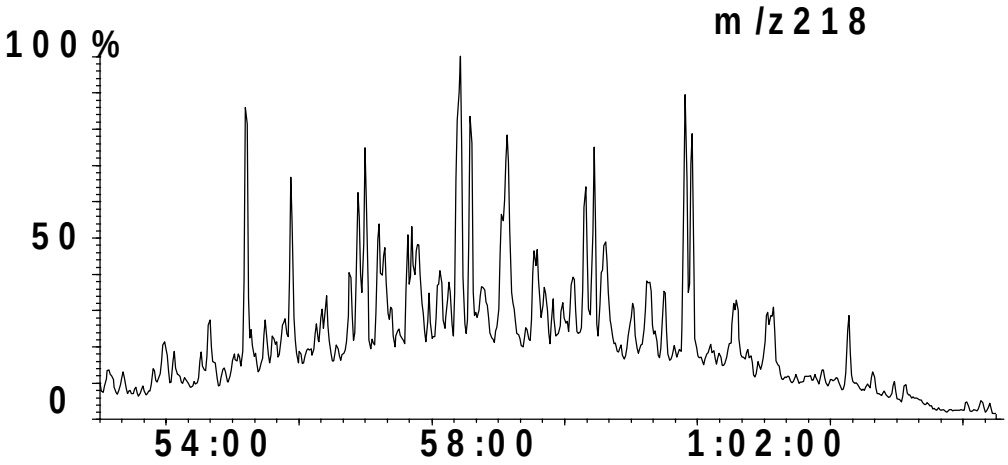
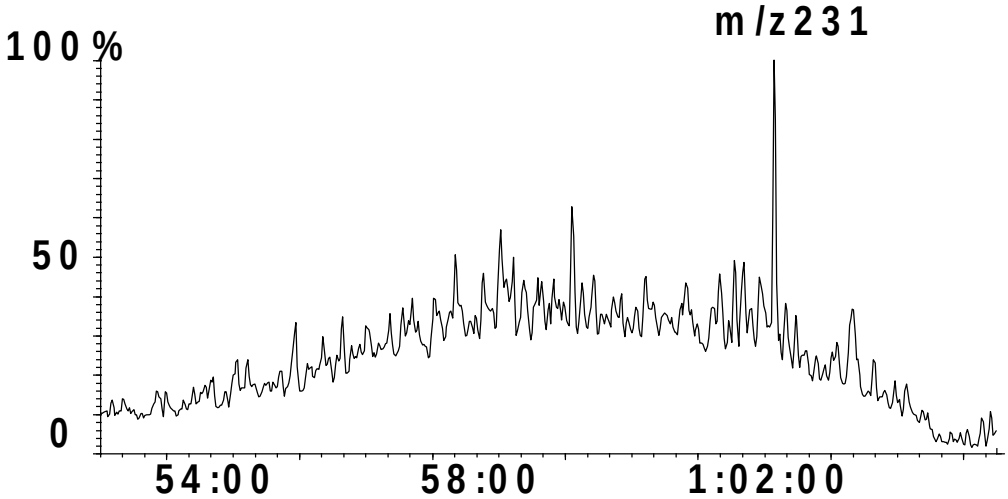
Country: **Australia**	Depth: **4281-4284m**	10-Jun-98
Basin: **Browse**	Age: **131.5** **(Ma)**	Sample ID: **9638**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**







Country: **Australia**	Depth: **4281-4284m**	10-Jun-98
Basin: **Browse**	Age: **131.5** **(Ma)**	Sample ID: **9638**
Well: **Kalyptea 1/ST1**	Formation:	Lat: **-13.033205**
Test:		Long: **123.872319**