

**THE CONTEXT OF ORGANIC RESIDUES IN ARCHAEOLOGICAL VESSELS
OF CERAMIC AND BRONZE**

PART 2: CATALOGUE OF SAMPLES AND RESULTS

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Submitted according to the requirements for:
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List of Samples by Site and Area

A2 Project	047	097	084
(Bronzes)	053	098	085
146	054	099	086
147	057	100	087
148	059	101	088
149	060	102	089
450	061	103	090
151	062	104	091
152	Kabri: DS-2	106	Megiddo: Q
153	004	107	133
154	020	108	134
155	021	109	135
156	040	110	136
157	041	111	137
158	045	112	138
159	048	114	139
160	Kabri: DW-W	115	140
161	003	116	141
162	005	117	142
163	006	119	143
164	008	120	144
165	009	121	145
166	014	122	
167	015	Lefkandi: Q-NE	
Modern	017	113	
001	018	123	
002	019	Megiddo: H	
011	022	092	
016	023	093	
027	024	094	
125	025	095	
126	026	Megiddo: J	
127	028	063	
128	029	064	
129	030	065	
130	031	066	
131	032	067	
132	034	Megiddo: K	
168	036	012	
169	037	013	
170	038	068	
171	042	069	
172	043	070	
173	046	071	
174	049	072	
175	050	073	
	051	074	
	052	075	
	055	076	
Kabri: DS-1	056	077	
007	058	078	
010	Lefkandi: T-N	079	
033	105	080	
035	118	081	
039	Lefkandi: T-S	082	
044	096	083	

KRM 001

Modern terra cotta plant pot (made in Italy), saturated in commercial olive oil at room temperature.

Sherd Weight: 4.77040g $\pm$ 0.00001g

Saturated Weight: 5.31697g $\pm$ 0.00005g

Absorbed Olive Oil: 0.54567g $\pm$ 0.00005g

Chloroform & Methanol Extracted Residue: 0.15052g $\pm$ 0.00001g (96.28%)

Potassium Hydroxide Extracted Residue: 0.00582g $\pm$ 0.00001g (3.72%)

Total Extracted Residue: 0.15634g $\pm$ 0.00001g

Chloroform & Methanol Extraction Yield: 28.31 mg/g

Potassium Hydroxide Extraction Yield: 1.16 mg/g

Total Yield: 29.41 mg/g

Total Extraction Efficiency: 28.651%

Major Peak: Octadecenoic Acid, Methyl Ester (C_{18:1}, Methyl Oleate)

Secondary Peak: Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Other peaks of note:

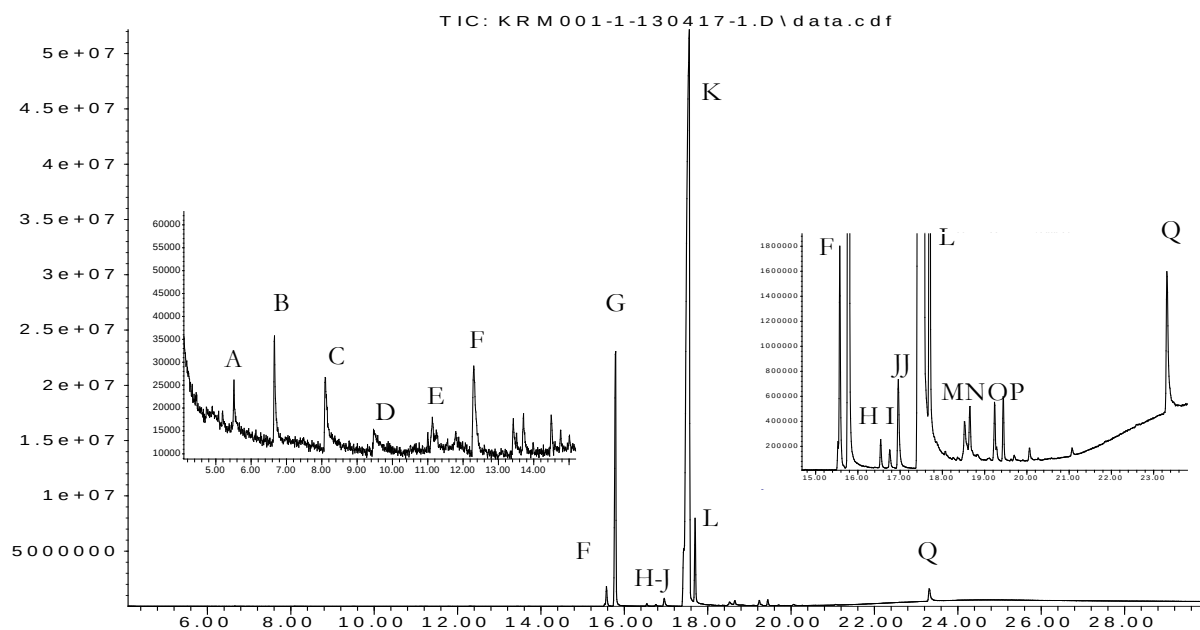
- Squalene (biomarker for olive oil)
- Series of n-alkanes
- Dicarboxylic acids
- Two trimethylsilyl derivatives appear in the GC-MS results for KRM001-1. These derivatives may be caused by additional derivatisation of the sample by BTSEA that was previously used to condition the column.

Cross References:

Olive Oil on Ceramic: 002

Olive Oil: 171

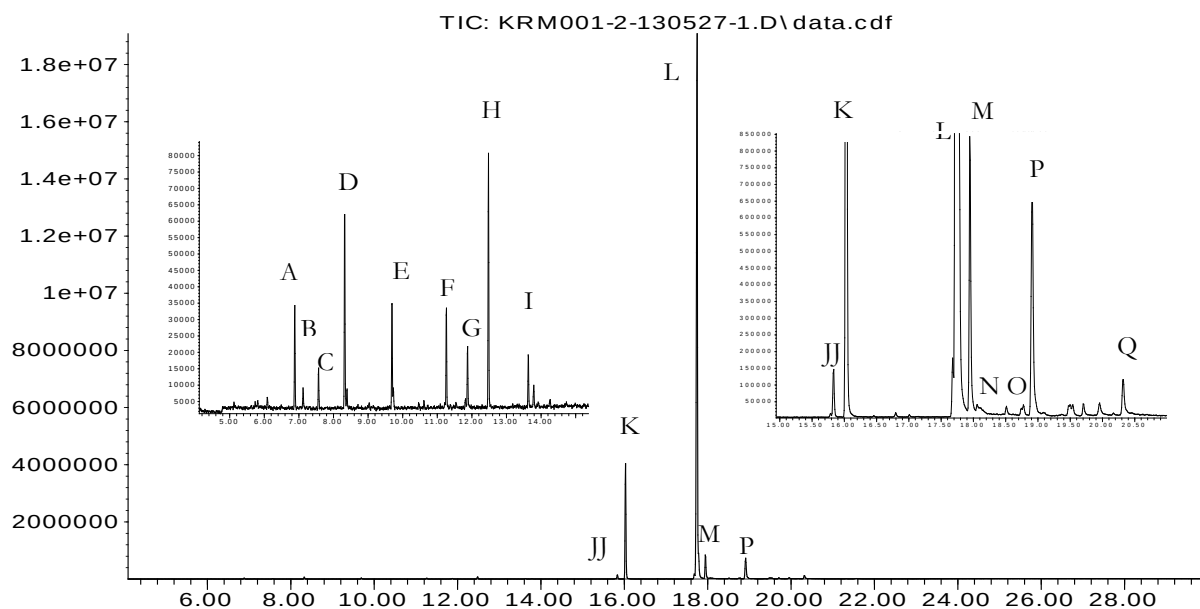
Abundance



SAMPLE KRM001-1: Chloroform/Methanol Extraction and FAME Derivatisation

- A) Undecane. B) Nonane. C) Dodecane. D) Heptane. E) Hexadecane. F) 9-Hexadecenoic Acid, Methyl Ester. G) Hexadecanoic Acid, Methyl Ester. H) Cis-10-Heptadecenoic Acid, Methyl Ester. I) Nonadecanoic Acid, Methyl Ester. J) Hexadecanoic Acid, Trimethylsilyl Ester. K) Octadecenoic Acid, Methyl Ester. L) Octadecanoic Acid, Methyl Ester. M) Octadecenoic Acid, TMS. N)? O) Cis-11-Eicosenoic Acid, Methyl Ester. P) Eicosanoic Acid, Methyl Ester. Q) Squalene.

Abundance



B)

SAMPLE KRM001-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

- A) Decane. B) 2-Decanone. C) Nonanoic Acid, Methyl Ester. D) Nonane. E) Hexane. F) Octanoic Acid, 6, 6 Dimethoxy, Methyl Ester. G) Nonanedioic Acid, Dimethyl Ester. H) Butanedioic Acid, Methoxy, Dimethyl Ester. I) Dodecane. J) 9-Hexadecenoic Acid, Methyl Ester. K) Hexadecanoic Acid, Methyl Ester. L) 9-Octadecenoic Acid, Methyl Ester. M) Octadecanoic Acid, Methyl Ester. N)? O)? P) Eicosanoic Acid, Methyl Ester. Q)?

KRM 002

Modern terra cotta plant pot (made in Italy), saturated in commercial olive oil at room temperature.

Sherd Weight: $8.94220\text{g} \pm 0.00001\text{g}$

Saturated Weight: $9.96494\text{g} \pm 0.00002\text{g}$

Absorbed Olive Oil: $1.02230\text{g} \pm 0.00002\text{g}$

Chloroform & Methanol Extracted Residue: $0.15461\text{g} \pm 0.00001\text{g}$ (96.86%)

Potassium Hydroxide Extracted Residue: $0.00502\text{g} \pm 0.00001\text{g}$ (3.14%)

Total Extracted Residue: $0.15963\text{g} \pm 0.00001\text{g}$

Chloroform & Methanol Extraction Yield: 15.52 mg/g

Potassium Hydroxide Extraction Yield: 0.51 mg/g

Total Yield: 16.02 mg/g

Total Extraction Efficiency: 15.61%

Major Peak: Octadecenoic Acid, Methyl Ester ($\text{C}_{18:1}$, Methyl Oleate)

Secondary Peak: Hexadecanoic Acid, Methyl Ester ($\text{C}_{16:0}$, Methyl Palmitate)

Other Peaks of Note:

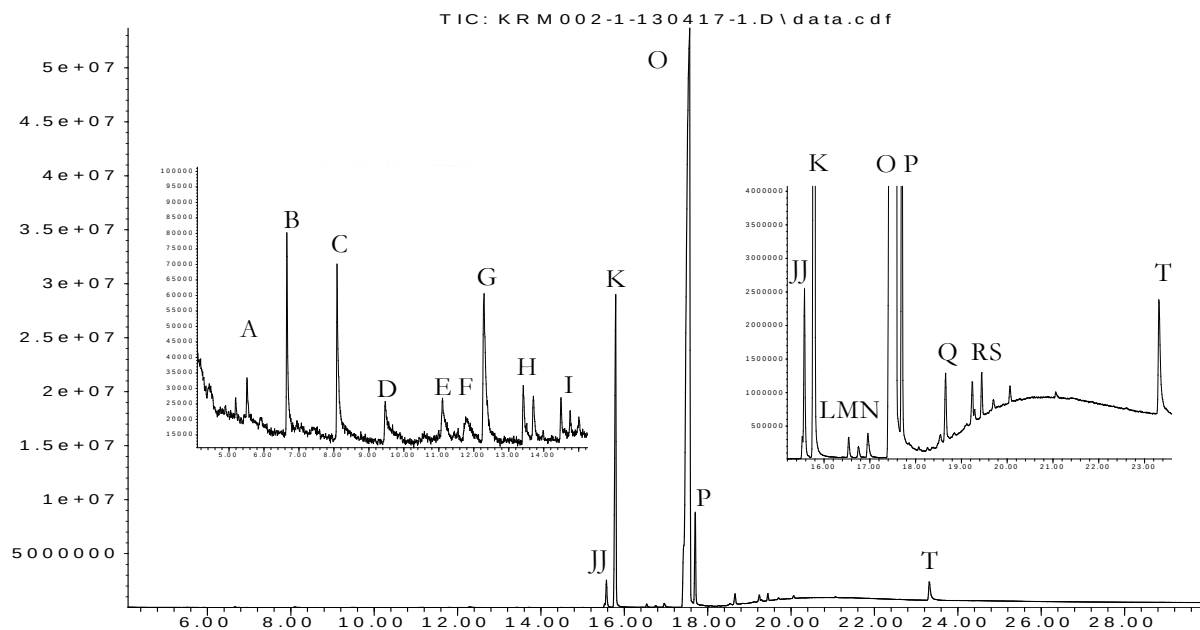
- Squalene (biomarker for olive oil)
- Series of n-alkanes
- Fatty Acids: 9,14,16, 18, and 20 carbon length
- 1 TMS derivative that may be caused by previous column conditioning with BTSEFA
- 1 Dimethoxy acid and 1 diacid representing degradation products.

Cross References:

Olive Oil on Ceramic: 001

Olive Oil: 171

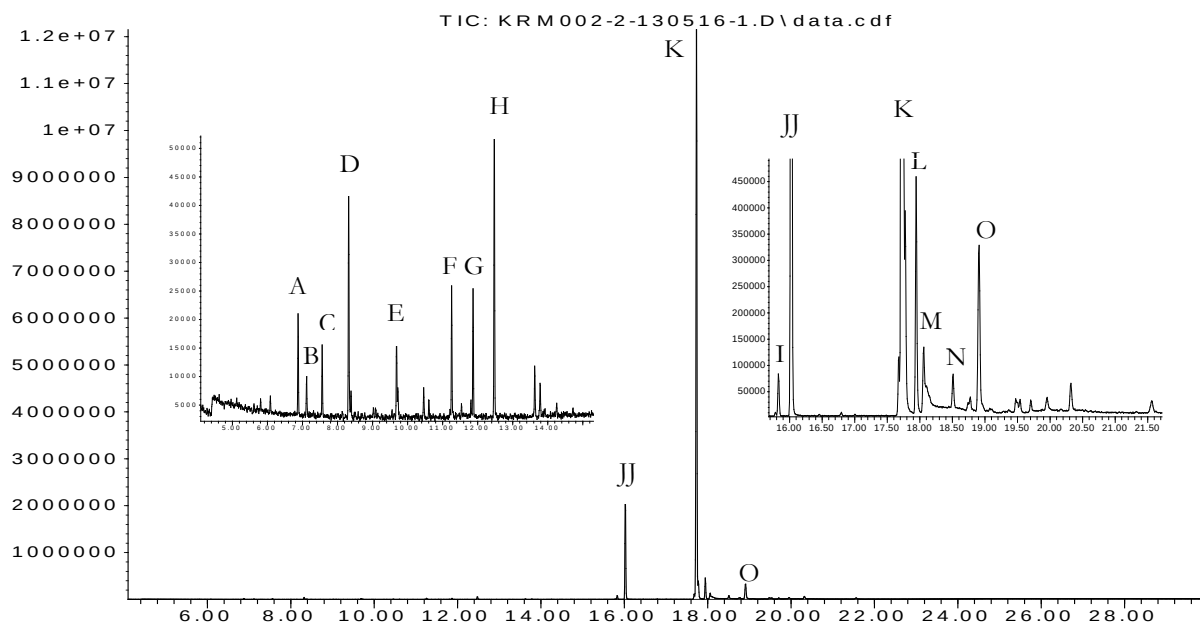
Abundance



SAMPLE KRM 002-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Nonane. C) Dodecane. D) Dimethoxy-Dodecane. E) Octadecane. F) Nonanedioic Acid, Dimethyl Ester. G) Dimethoxy-Octanoic Acid, Methyl Ester. H) Tetradecanoic Acid, Methyl Ester. I) Tetradecenoic Acid, Methyl Ester. J) 9-Hexadecenoic Acid, Methyl Ester. K) Hexadecanoic Acid, Methyl Ester. L) cis-10-Heptadecenoic Acid, Methyl Ester. M) Heptadecanoic Acid, Methyl Ester. N) Hexadecanoic Acid, TMS. O) Octadecenoic Acid, Methyl Ester. P) Octadecanoic Acid, Methyl Ester. Q) trans-Butenedioic Acid, Methyl Ester. R) cis-11-Eicosenoic Acid, Methyl Ester. S) Eicosanoic Acid, Methyl Ester. T) Squalene.

Abundance



SAMPLE KRM002-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Nonane. B) 2-Decanone. C) Nonanoic Acid, Methyl Ester. D) Decane. E) Dodecane, 1,1 dimethoxy. F) Octanoic Acid, 6,6, dimethoxy methyl ester. G) Nonanedioic, Dimethyl Ester H) Dodecane, 1,1, dimethoxy. I) 9-Hexadecenoic Acid, Methyl Ester. J) Hexadecanoic Acid, Methyl Ester. K) Octadecenoic Acid, Methyl Ester. L) Octadecanoic Acid, Methyl Ester. M) Octadecenoic Acid, Methyl Ester. N) 9,11-Octadecadienoic Acid, Methyl Ester. O) trans-Butanedioic Acid, Methyl Ester.

KRM 003

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-8, fine grid 7, lab 17.
Occupational debris, palatial context. Body sherd. Thick red ware, stored in plastic and paper post-excavation.

Sherd Weight: 11.83000g $\pm$ 0.00001g
Sherd Thickness: 13.32mm $\pm$ 0.01mm

Chloroform & Methanol Extracted Residue: 0.00628g $\pm$ 0.00001g
Potassium Hydroxide Extracted Residue: undetermined
Total Extracted Residue: undetermined

Chloroform & Methanol Extraction Yield: 0.531mg/g
Potassium Hydroxide Extraction Yield: undetermined
Total Yield: undetermined

Major Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Undecane is the primary peak in KRM003-1, but this may be increased by contamination/solvent.

Secondary Peak(s):

Nonanoic Acid, Methyl Ester (C_{9:0})

Octadecanoic Acid, Methyl Ester (C_{18:0}, Methyl Stearate)

Other Peaks of Note:

- Noteworthy that the saturated and unsaturated C₁₈ fatty acids are almost equal in concentration.
- Mostly shows column degradation in the form of cyclosiloxanes.

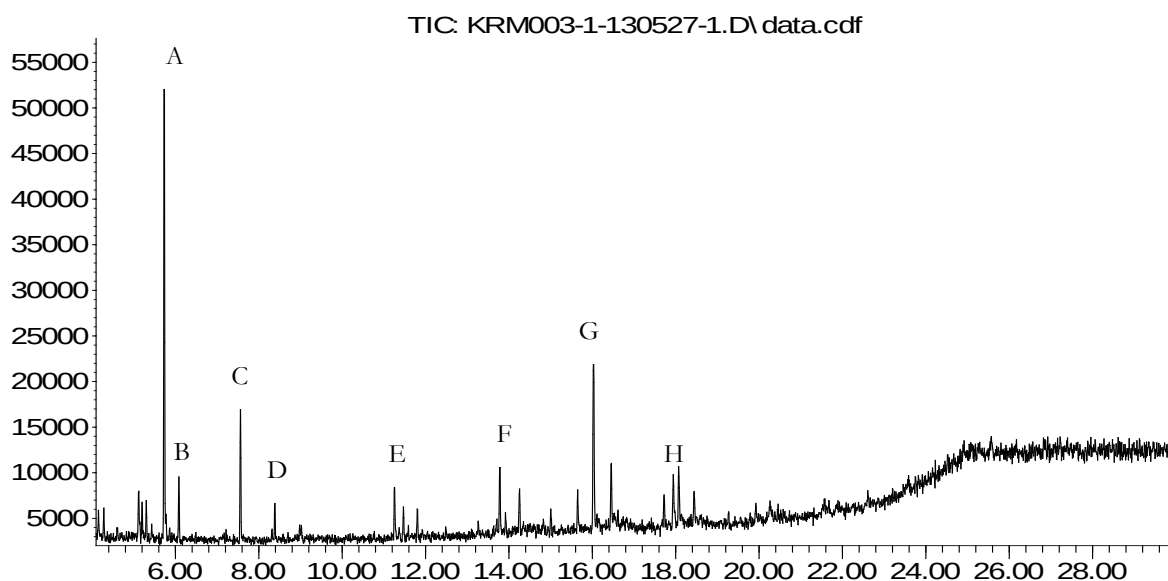
Plant oil? C₁₆>>C₁₈

Cross-References:

Fine Grid: 005, 006

Locus: 008, 018, 022, 023, 025, 028, 029, 031, 046, 050

Abundance

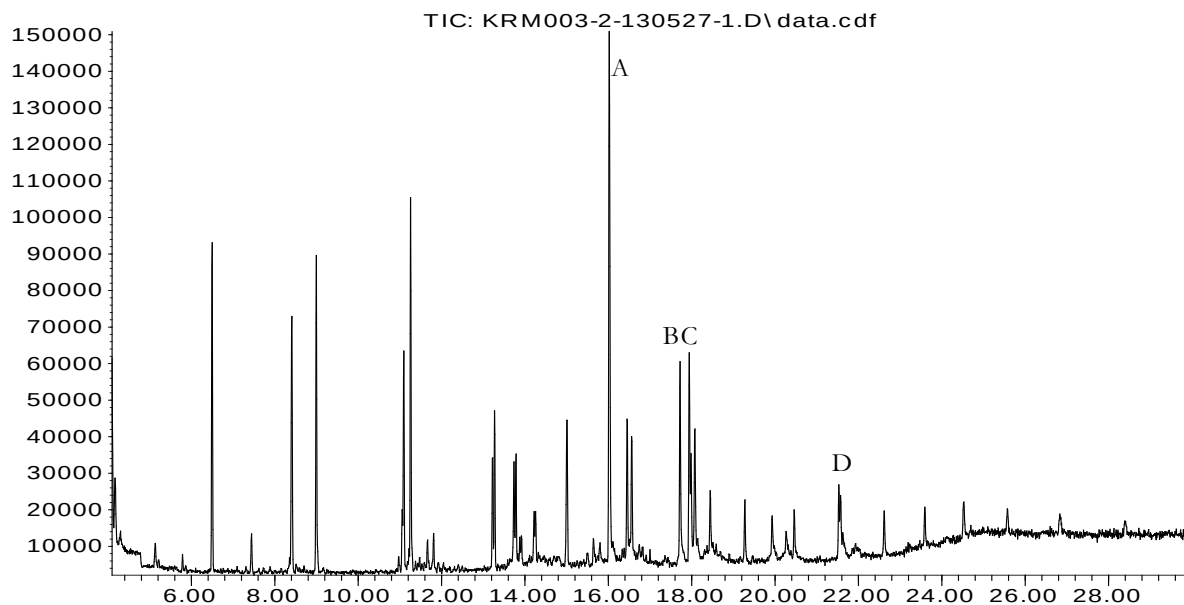


SAMPLE KRM003-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D) Hexadecane. E) Heptadecane. F) Octadecane. G) Hexadecanoic Acid, Methyl Ester. H) Octadecanoic Acid, Methyl Ester.

SAMPLE KRM003-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

Abundance



A) Hexadecanoic Acid, Methyl Ester. B) Octadecenoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester D) Plasticiser. All other unlabelled peaks correspond to cyclosiloxanes from the gas chromatography column.

KRM 004

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3060-11, fine grid 19, lab 11. Small rim fragment. Stored in plastic and paper post-excavation.

Sherd Weight: $3.22250\text{g} \pm 0.00001\text{g}$

Chloroform & Methanol Extracted Residue:	undetermined
Potassium Hydroxide Extracted Residue:	undetermined
Total Extracted Residue:	undetermined

Chloroform & Methanol Extraction Yield:	undetermined
Potassium Hydroxide Extraction Yield:	undetermined
Total Yield:	undetermined

Major Peak:

Octadecenoic Acid, Methyl Ester ($\text{C}_{18:1}$, Methyl Oleate)

Secondary Peak:

Hexadecanoic Acid, Methyl Ester ($\text{C}_{16:0}$, Methyl Palmitate)

Other Peaks of Note:

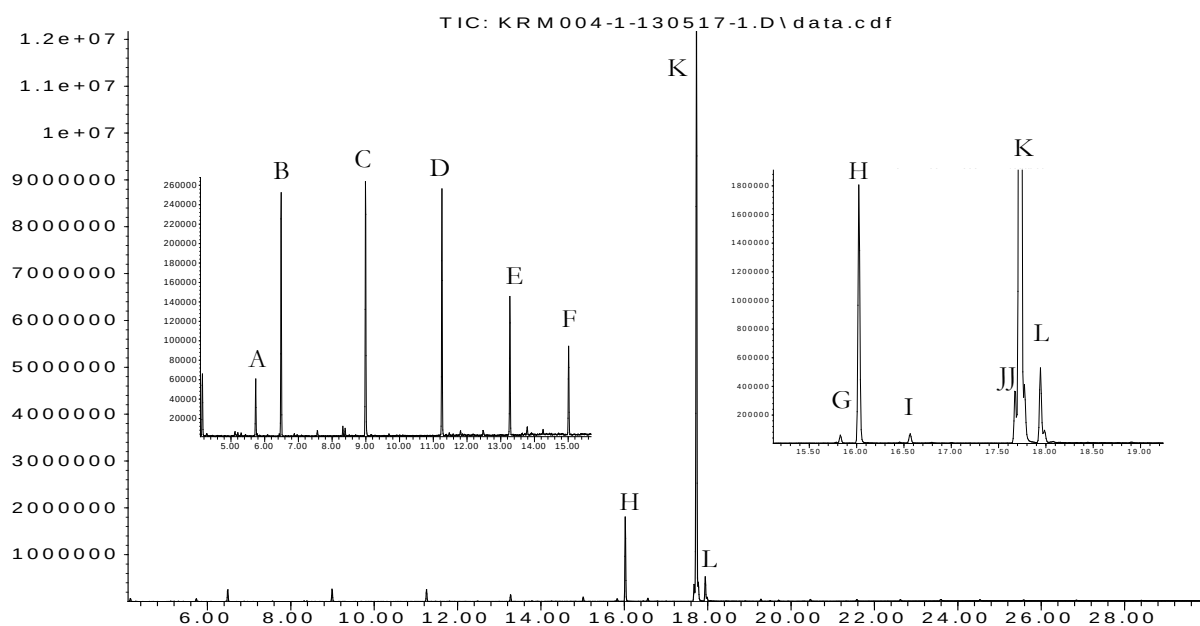
- Diacylglycerides: distearin mixture
- Fatty Acids: $\text{C}_{16:0}$, $\text{C}_{16:1}$, $\text{C}_{18:0}$, $\text{C}_{18:1}$, and $\text{C}_{18:2}$
- Contaminants: Cyclosiloxanes and Plasticisers

Cross-References:

Deposit: 040, 041, 045

Locus: 021, 048

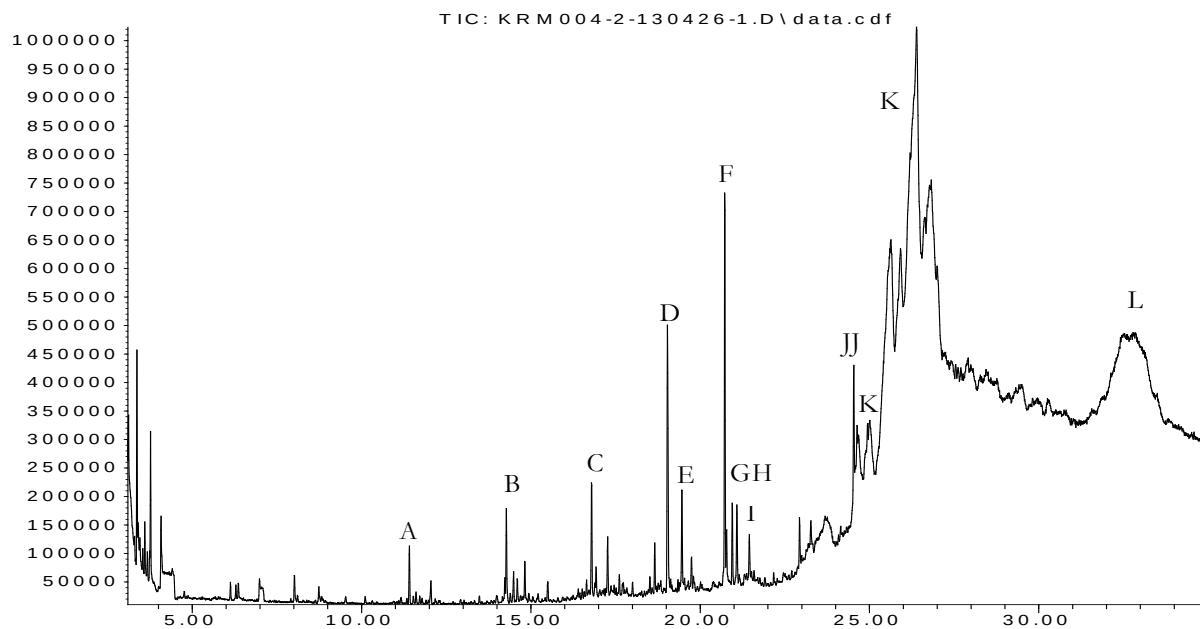
Abundance



SAMPLE KRM004-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B-F) Cyclosiloxanes. G) 9-Hexadecenoic Acid, Methyl Ester. H) Hexadecanoic Acid, Methyl Ester. I) 7-Hexadecenoic Methyl Ester. J) 9,12- Octadecadienoic Acid, Methyl Ester. K) 9-Octadecenoic Acid. L) Octadecanoic Acid, Methyl Ester.

Abundance



SAMPLE KRM004-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Dodecane. B) Heptadecane. C) Octadecane. D) Hexadecanoic Acid, Methyl Ester. E) Phthalic Acid. F) Octadecenoic Acid. G) Octadecanoic Acid. H) Eicosane. I) Tetracosane. J) A phthalate. K) Distearin (several peaks correspond to different structural isomers). L) A diacylglyceride.

KRM 005

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-8, fine grid 7, lab 24. Occupational debris, palatial context. Rounded rim fragment. Stored in paper and plastic post-excavation.

Sherd Weight: 6.70281g $\pm$ 0.00001g
 Sherd Thickness: 7.47mm $\pm$ 0.01mm

Chloroform & Methanol Extracted Residue:	0.00840g $\pm$ 0.00004g	(67.69%)
Potassium Hydroxide Extracted Residue:	0.00401g $\pm$ 0.00002g	(32.31%)
Total Extracted Residue:	0.01241g $\pm$ 0.00004g	

Chloroform & Methanol Extraction Yield:	1.25 mg/g
Potassium Hydroxide Extraction Yield:	0.68 mg/g
Total Yield:	1.85 mg/g

Major Peak:

Phthalate Plasticiser

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Other Peaks of Note:

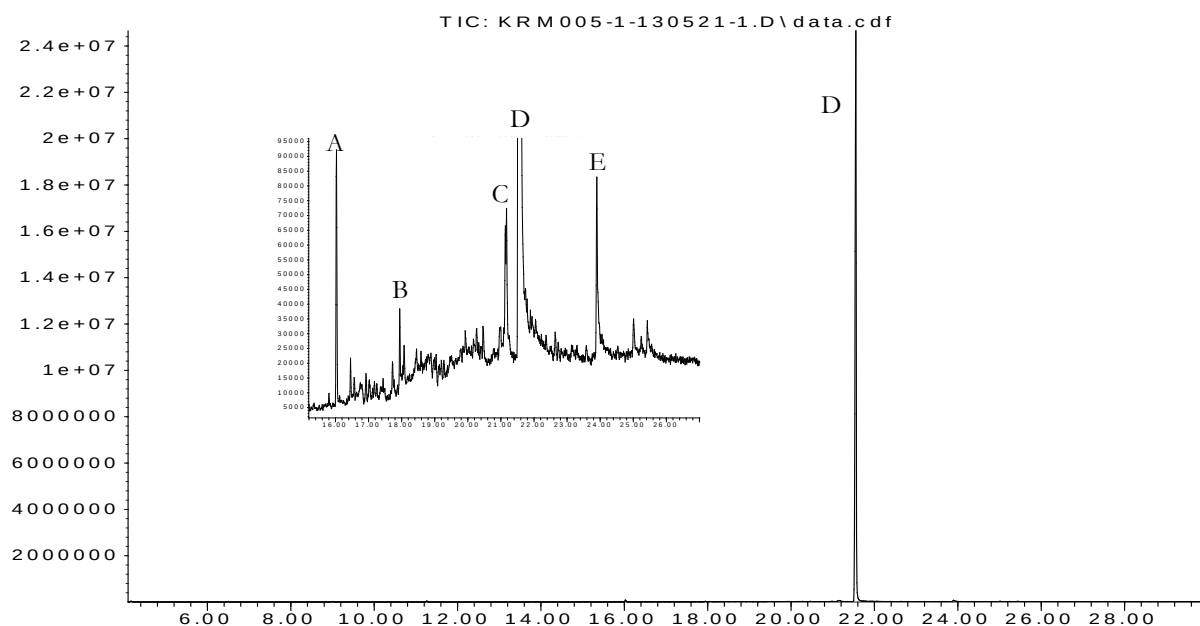
- Only Plastics, C_{16:0}, and C_{18:0}. As these two fatty acids can originate from most anything, a conclusion on identity is impossible. Though if the ratio of the two fatty acids is taken into account (1.53 calculated on the basis of peak areas) a plant origin would be most likely.

Cross References:

Fine Grid: 003, 006

Locus: 008, 018, 022, 023, 025, 028, 029, 031, 046, 050

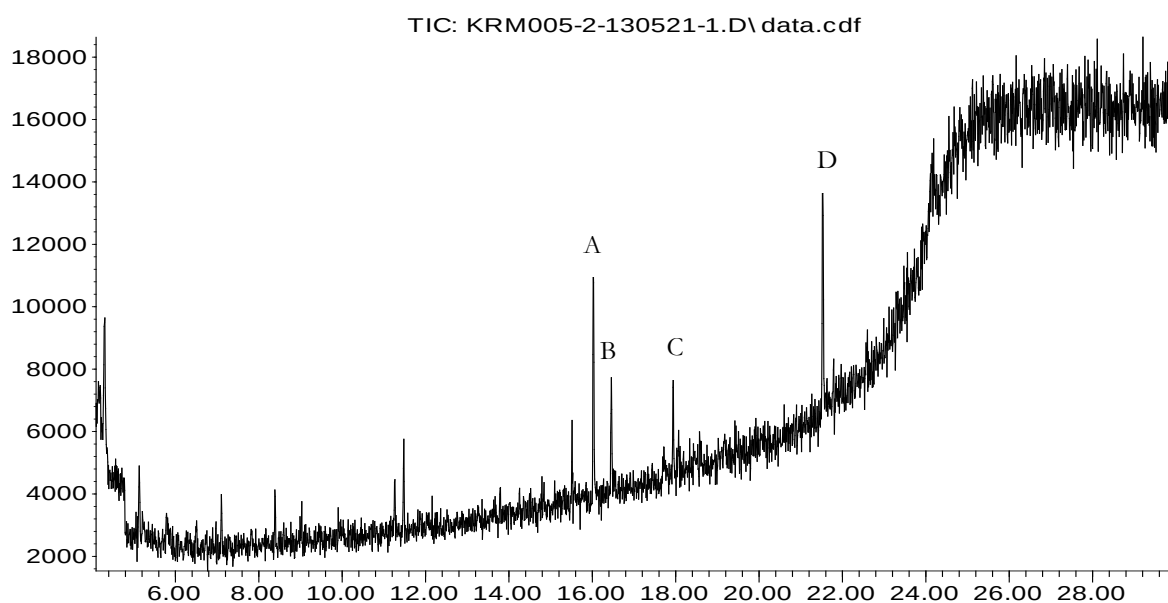
Abundance



SAMPLE KRM005-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid. B) Octadecanoic Acid, Methyl Ester. C & D) Phthalate Plasticisers. E)?

Abundance



SAMPLE KRM005-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) Phthalate Plasticiser. C) Octadecanoic Acid, Methyl Ester. D)
Phthalate Plasticiser

KRM 006

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-8, fine grid 7, lab 28.
Occupational debris, palatial context. Rim fragment, stored in plastic and paper.

Sherd Weight: 4.55701g $\pm$ 0.00003g
Sherd Thickness: 8.26mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.04022g $\pm$ 0.00001g	(54.95%)
Potassium Hydroxide Extracted Residue:	0.03297g $\pm$ 0.00004g	(45.05%)
Total Extracted Residue:	0.07319g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	8.83 mg/g
Potassium Hydroxide Extraction Yield:	7.41 mg/g
Total Yield:	16.06 mg/g

Major Peak:

Plasticiser

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Plasticiser

Other Peaks of Note:

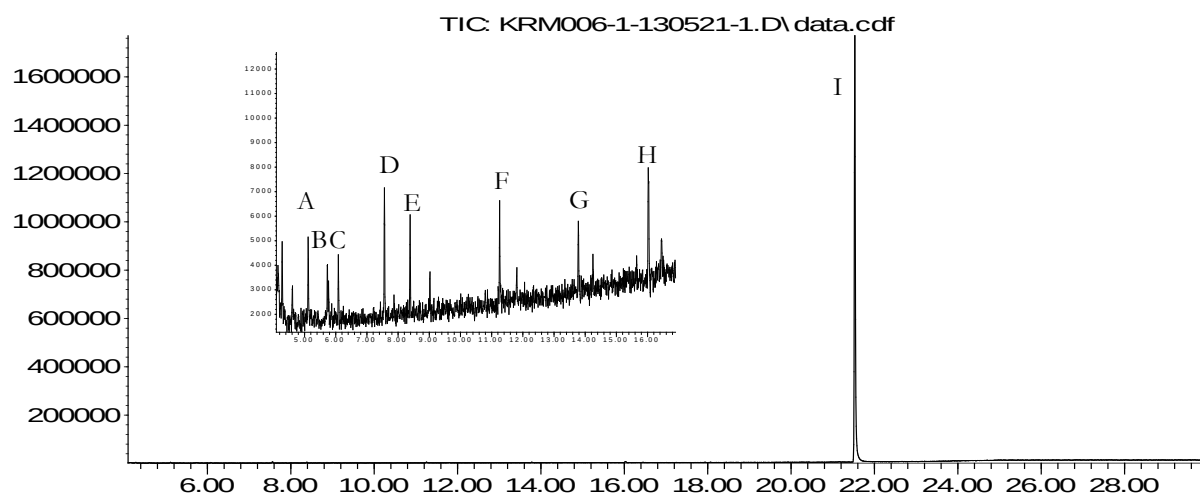
- A few n-alkanes appear in the first chloroform extracted sample
- Fatty acids C₈ and C₉ in the first, but only C₁₆ and C₁₈ in the second.

Cross-References:

Fine Grid: 003, 005

Locus: 008, 018, 022, 023, 025, 028, 029, 031, 046, 050

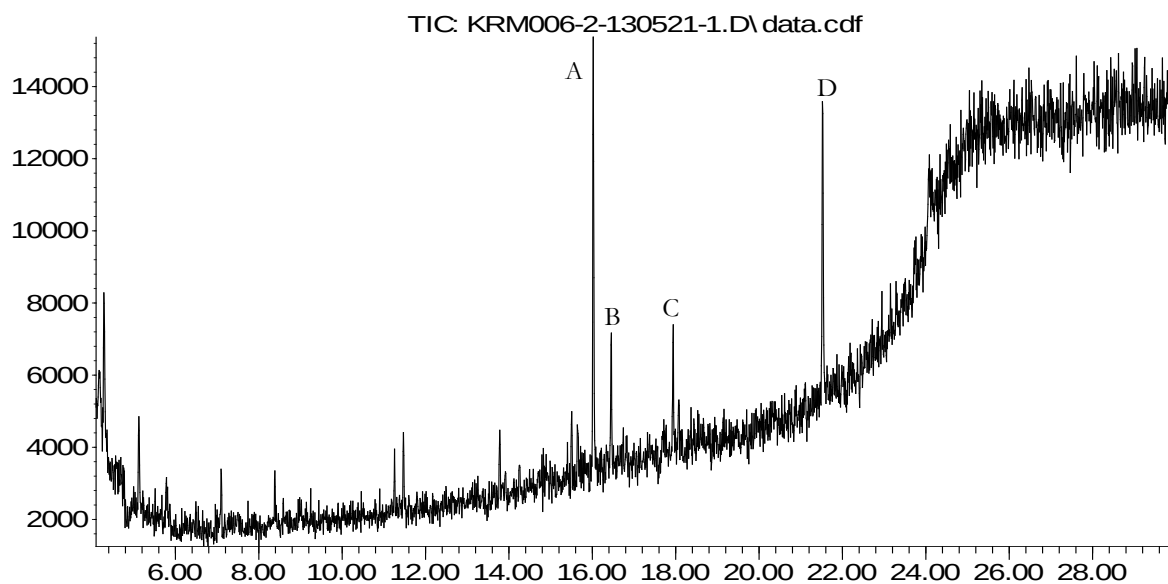
Abundance



SAMPLE KRM006-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Eicosane. B) Undecane. C) Octanoic Acid, Methyl Ester. D) Nonanoic Acid, Methyl Ester. E) Dodecane. F) Hexadecane. G) Heneicosane. H) Heptadecanoic Acid, Methyl Ester. I) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM006-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) A phthalate plasticiser. C) Octadecanoic Acid, Methyl Ester. D) Bis(2-ethylhexyl)phthalate.

KRM 007

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3033-6, lab 1. Accumulation on a floor. Body fragment. Thick coarse ware, stored in plastic and paper post-excavation.

Sherd Weight: 25.37618g $\pm$ 0.00020g

Sherd Thickness: 17.12mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.03132g $\pm$ 0.00002g (93.72%)

Potassium Hydroxide Extracted Residue: 0.00021g $\pm$ 0.00002g (6.28%)

Total Extracted Residue: 0.03153g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 1.20 mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.20 mg/g

Major Peak:

Plasticiser

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Secondary Peak:

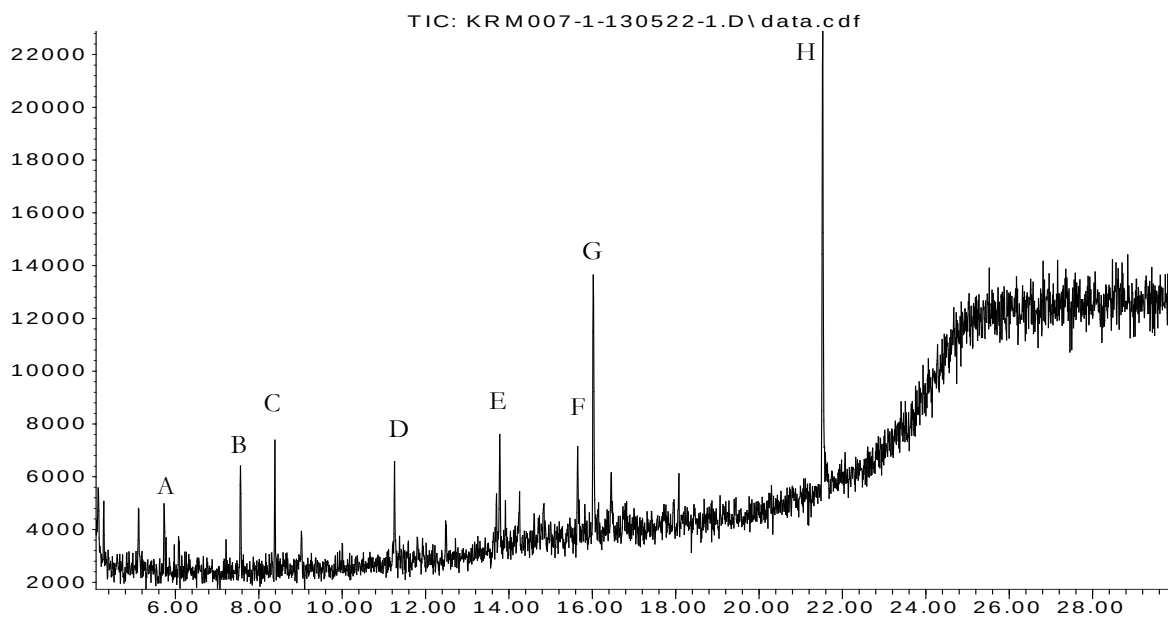
Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Plasticiser

Cross-Reference:

Locus: 044

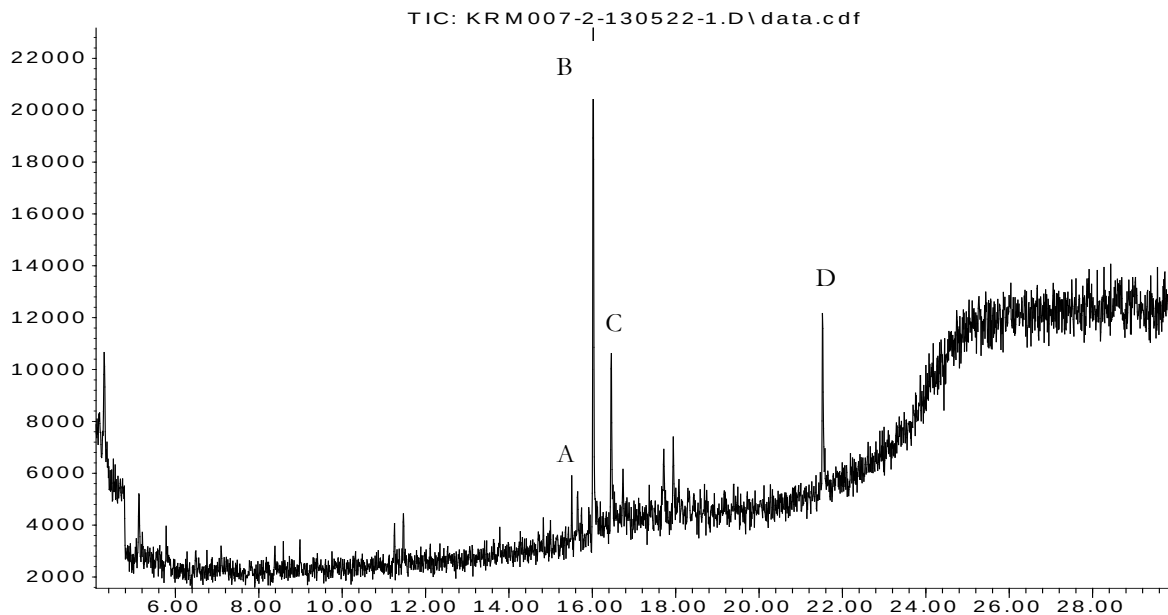
Abundance



SAMPLE KRM007-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Decane. B) Nonanoic Acid, Methyl Ester. C) Nonadecane. D) A n-alkane. E) Octadecane. F) Heptadecanoic acid, Dimethyl Ester. G) Hexadecanoic Acid, Methyl Ester. H) Phthalate Plasticiser.

Abundance



SAMPLE KRM007-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Phthalate Plasticiser. B) Hexadecanoic Acid, Methyl Ester. C) Phthalate Plasticiser. D) Bis(2-ethylhexyl)phthalate.

KRM 008

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2126-6, fine grid 3. Destruction debris on a floor, palatial context. 2 base sherds. Fine ware, stored in plastic and paper post-excavation.

Sherd Weight: 3.27733g $\pm$ 0.00003g (1 sherd for analysis)
 Sherd Thickness: 7.15mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00745g $\pm$ 0.00001g	(96.38%)
Potassium Hydroxide Extracted Residue:	0.00028g $\pm$ 0.00002g	(3.62%)
Total Extracted Residue:	0.00773g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	2.20 mg/g
Potassium Hydroxide Extraction Yield:	insignificant
Total Yield:	2.30 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Secondary Peak:

Siloxane/Plasticiser

Other Peaks of Note:

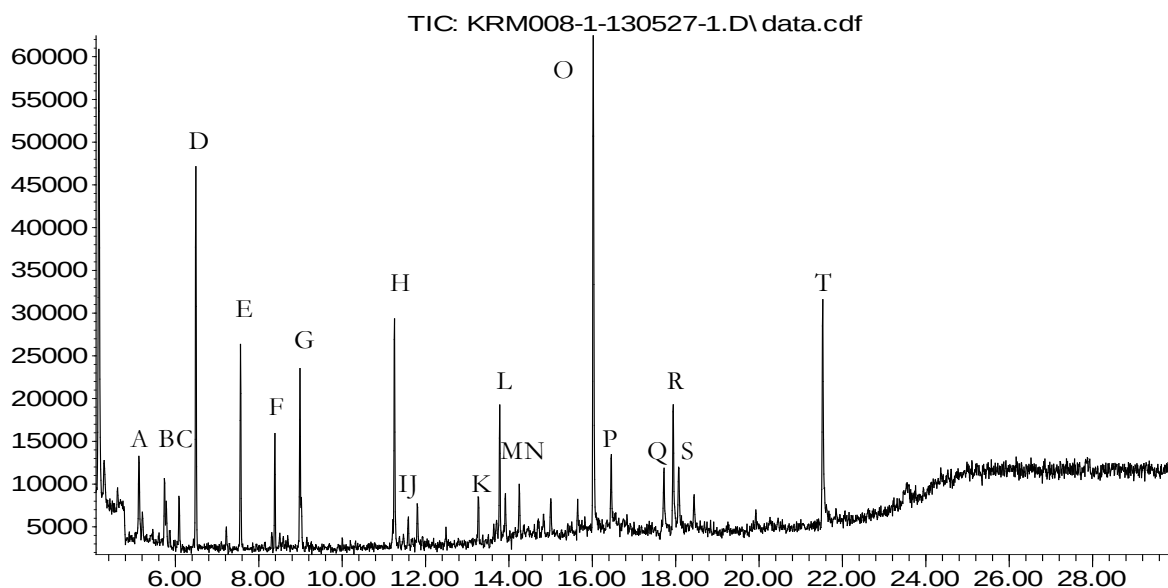
- Large amount of contamination from siloxanes and plasticisers.

Cross References:

Fine Grid: 018, 022, 025, 028, 029

Locus: 003, 005, 006, 023, 031, 046, 050

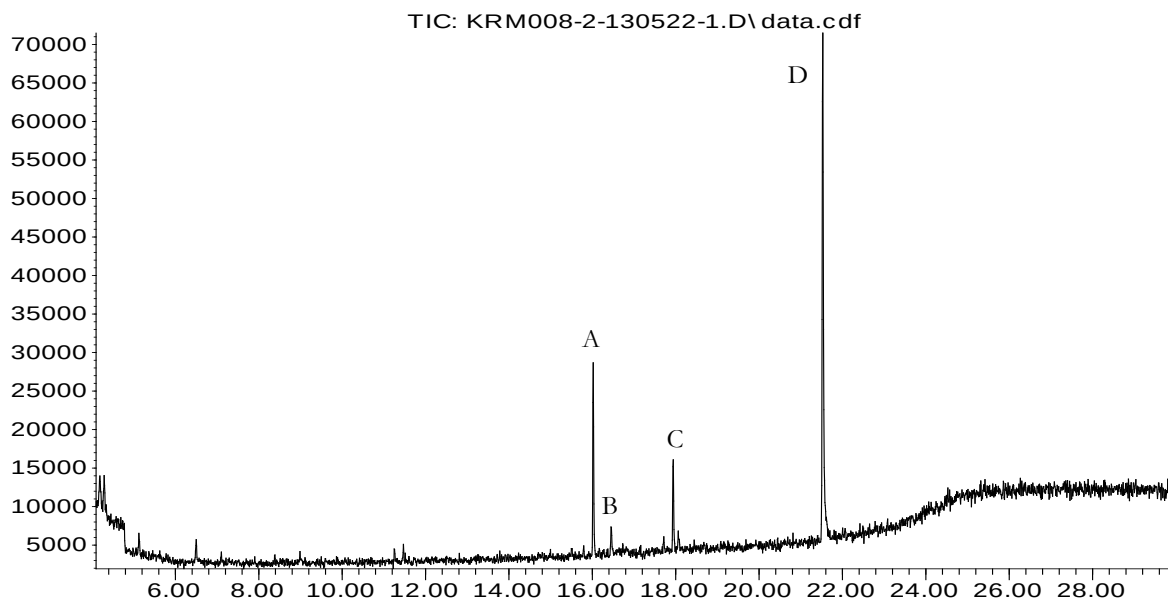
Abundance



SAMPLE KRM008-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Dodecane. B) Undecane. C) Octanoic Acid, Methyl Ester. D) A cyclopentasiloxane. E) Nonanoic Acid, Methyl Ester. F) Hexadecane. G) A cyclopentasiloxane. H) A cyclopentasiloxane. I) Dodecanoic Acid, Methyl Ester. J) Hexacosane. K) A cyclopentasiloxane. L) Hexadecane. M) Tridecanoic Acid. N) Heptadecane. O) Hexadecanoic Acid, Methyl Ester. P) a phthalate plasticiser. Q) Octadecenoic Acid, Methyl Ester. R) Octadecanoic Acid, Methyl Ester. S) Octadecane. T) Bis(2-ethylhexyl)phthalate.

Abundance



SAMPLE KRM008-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) a phthalate plasticiser. C) Octadecanoic Acid. D) Bis(2-ethylhexyl)phthalate.

KRM 009

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197-1. Drainage deposit, collapse above a floor, palatial context. 2 body fragments, stored in plastic and paper post-excavation.

Sherd Weight: 1.81442g $\pm$ 0.00001g (1 sherd for analysis)
 Sherd Thickness: 4.96mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.03194g $\pm$ 0.00004g	(88.16%)
Potassium Hydroxide Extracted Residue:	0.00429g $\pm$ 0.00001g	(11.84%)
Total Extracted Residue:	0.03623g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	17.60 mg/g
Potassium Hydroxide Extraction Yield:	2.4 mg/g
Total Yield:	19.97 mg/g

Major Peak:

Plasticiser

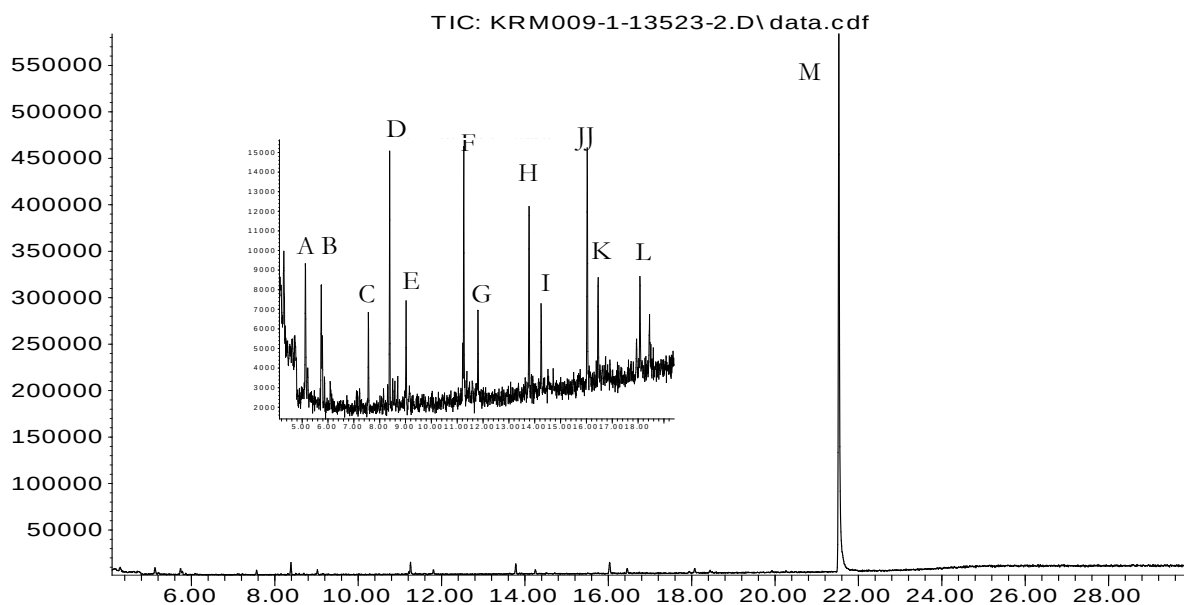
Other Peaks of Note:

- Mostly contamination from plastics. The n-alkanes present can also most likely be attributed to this.

Cross-References:

Locus: 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

Abundance

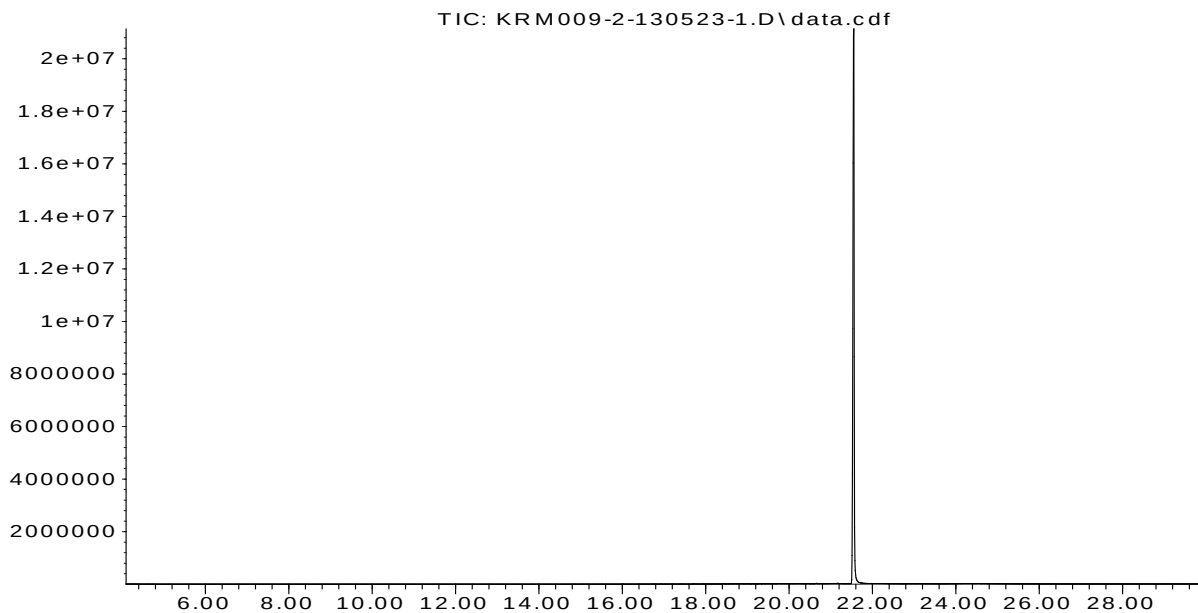


Time-->

SAMPLE KRM009-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Tridecane. B) Undecane. C) Nonanoic Acid, Methyl Ester. D) Hexadecane. E-F) unidentified alkanes. G) Octacosane. H) Octadecane. I) Heptacosane. J) Hentriacontane. K) a phthalate plasticiser. L) Tetracontane. M) Bis(2-ethylhexyl) phthalate.

Abundance



Time-->

SAMPLE KRM009-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

Bis(2-ethylhexyl)phthalate

KRM 010

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3039-2, lab 3. Within plastered installation. Tabun Fragment. Stored in plastic and paper post-excavation.

Sherd Weight: $13.59826\text{g} \pm 0.00001\text{g}$

Chloroform Methanol Extracted Residue:	$0.05167\text{g} \pm 0.00002\text{g}$	(99.63%)
Potassium Hydroxide Extracted Residue:	$0.00019\text{g} \pm 0.00003\text{g}$	(3.81%)
Total Extracted Residue:	$0.05186\text{g} \pm 0.00004\text{g}$	

Chloroform Methanol Extraction Yield:	3.79 mg/g
Potassium Hydroxide Extraction Yield:	0.02 mg/g
Total Yield:	3.81 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester ($\text{C}_{16:0}$, Methyl Palmitate)

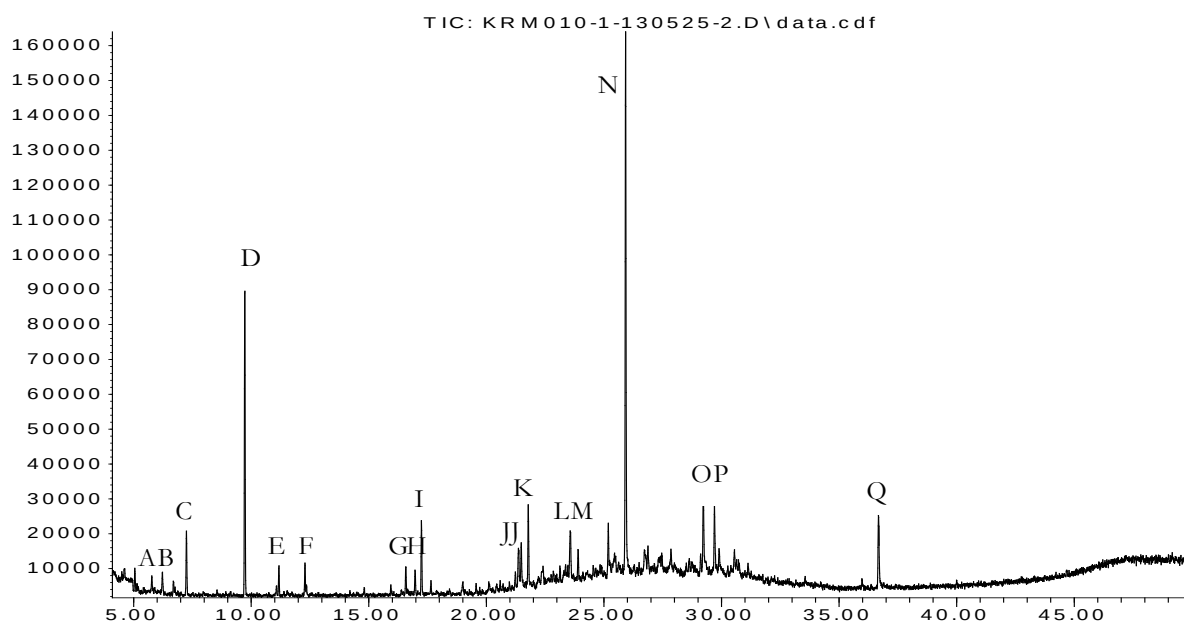
Secondary Peak:

Nonanoic Acid, Methyl Ester ($\text{C}_9:0$)

Other Peaks of Note:

- Robust set of fatty acids ranging from C_8 to C_{18})
- N-alkanes
- Contaminants: Plasticisers

Abundance

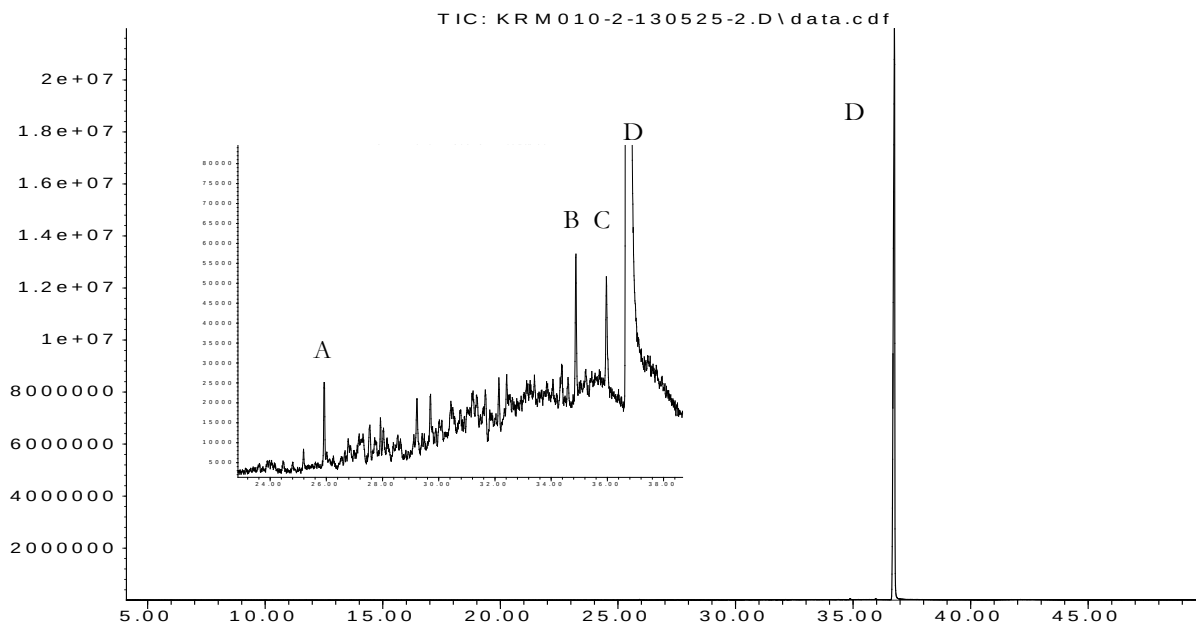


Time-->

SAMPLE KRM 010-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Heptanoic Acid, Methyl Ester. B) Decane. C) Octanoic Acid, Methyl Ester. D) Nonanoic Acid, Methyl Ester. E) Pentadecane. F) Decanoic Acid, Methyl Ester. G) Hexadecane. H) Heptadecane. I) Dodecanoic Acid, Methyl Ester. J) a n-alkane. K) Tetradecanoic Acid, Methyl Ester. L) Octacosane. M) Pentadecanoic Acid, Methyl Ester. N) Hexadecanoic Acid, Methyl Ester. O) Octadecenoic Acid, Methyl Ester. P) Octadecanoic Acid, Methyl Ester. Q) Bis(2-ethylhexyl)phthalate.

Abundance



Time-->

SAMPLE KRM010-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid. B-C) plasticisers. D) Bis(2-ethylhexyl)phthalate.

KRM 011

Commercial Lard. Modern

Sample Weight: 0.00419g $\pm$ 0.00002g

Major Peak:

Octadecenoic Acid, Methyl Ester (C_{18:1}, Methyl Oleate)

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

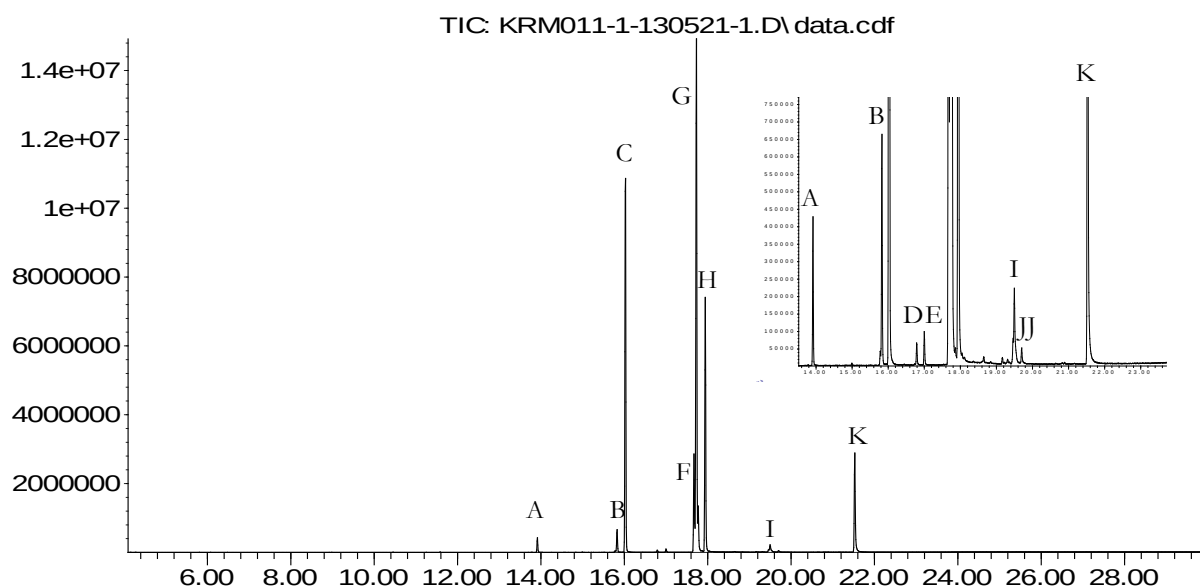
Other Peaks of Note:

- Range of saturated and unsaturated fatty acids containing C_{14:0}, C_{16:0}, C_{16:1}, C_{17:0}, C_{17:1}, C_{18:0}, C_{18:1}, C_{18:2}, C_{20:0}, C_{20:1}
- Contaminant: Plasticiser.

Cross-References:

Lard: 172

Abundance



SAMPLE KRM011-1: Modern Oil/Fat, FAME Derivatisation

- A) Tetradecanoic Acid, Methyl Ester. B) 9-Hexadecenoic Acid, Methyl Ester. C) Hexadecanoic Acid, Methyl Ester. D) Cis-10-Heptadecenoic Acid, Methyl Ester. E) Heptadecanoic Acid, Methyl Ester. F) 9,12-Octadecadienoic Acid, Methyl Ester. G) Octadecenoic Acid, Methyl ester. H) Octadecanoic Acid, Methyl Ester. I) 11-Eicosenoic Acid, Methyl Ester. J) Eicosanoic Acid, Methyl Ester. K) Bis(2-ethylhexyl)phthalate.

KRM 012

Megiddo, Israel. 2010. Late Bronze Age I. Area K, locus 093-006. Burial in a domestic context. Base sherd of a storage jar.

Sherd Weight: 4.16631g $\pm$ 0.00003g (piece broken off)

Sherd Thickness: 5.43mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00067g $\pm$ 0.00005g (80.72%)

Potassium Hydroxide Extracted Residue: 0.00016g $\pm$ 0.00004g (19.28%)

Total Extracted Residue: 0.00083g $\pm$ 0.00007g

Chloroform Methanol Extraction Yield: 0.16 mg/g

Potassium Hydroxide Extraction Yield: 0.04 mg/g

Total Yield: 0.20 mg/g

Major Peak:

Plasticiser

Secondary Peak:

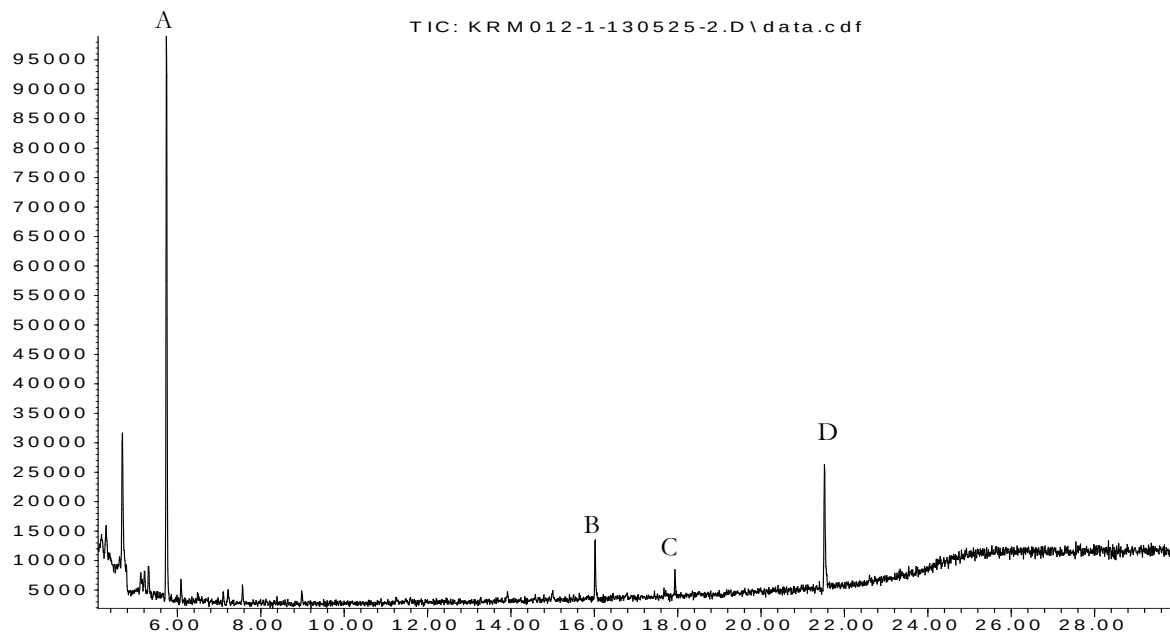
Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Other Peaks of Note:

Too heavily contaminated with plasticisers to make any determination of vessel use.

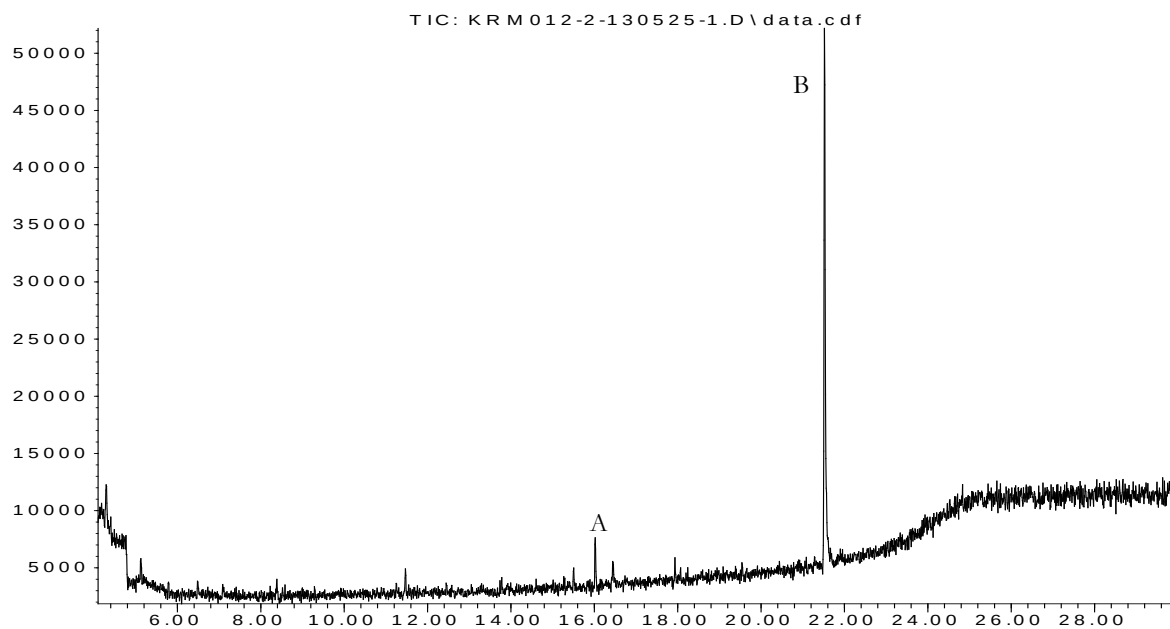
N-alkanes and Hexadecanoic acid could come from the contaminant or the residue, if any.

Abundance

**SAMPLE KRM012-1: Chloroform/Methanol Extraction and FAME Derivatisation**

A) Undecane. B) Hexadecanoic Acid, Methyl Ester. C) Methyl Stearate. D) Bis(2-ethylhexyl) phthalate.

Abundance

**SAMPLE KRM012-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation**

A) Hexadecanoic Acid. B) Bis(2-ethylhexyl)Phthalate.

KRM 013

Megiddo, Israel. 2009. Late Bronze Age II. Area K, locus 002, vessel 002, lab 029.
 Pit/pottery cached in domestic context. Sherds from a restorable bowl.

Sherd Weight: 5.62466g $\pm$ 0.00001g (sample broken off)
 Sherd Thickness: 7.73mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.06635g $\pm$ 0.00004g	(99.71%)
Potassium Hydroxide Extracted Residue:	0.00019g $\pm$ 0.00002g	(0.29%)
Total Extracted Residue:	0.06654g $\pm$ 0.00005g	

Chloroform Methanol Extraction Yield:	1.12 mg/g
Potassium Hydroxide Extraction Yield:	0.03 mg/g
Total Yield:	1.18 mg/g

Major Peak:

Octadecanoic Acid, Methyl Ester (C_{18:0}, Methyl Stearate)

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

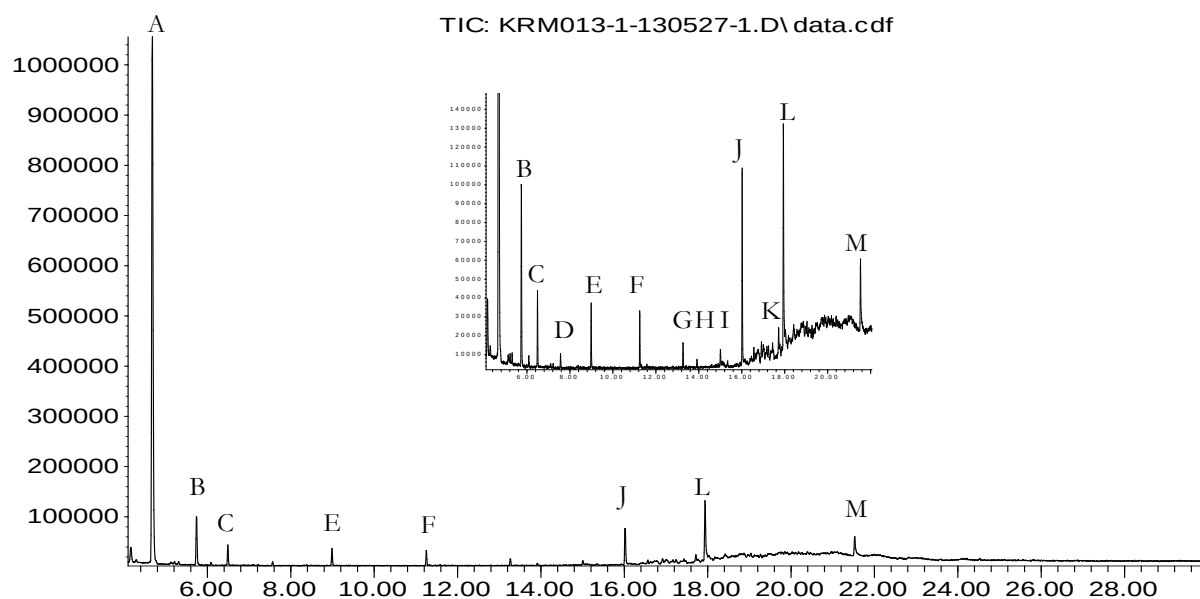
Other Peaks of Note:

- Very little octadecenoic acid and the concentrations of Octadecanoic and hexadecanoic acids are much closer in value than in other samples.
- Contaminant: plasticiser

Cross-References:

Locus: 068, 069, 070, 071, 074, 075, 077, 078, 079

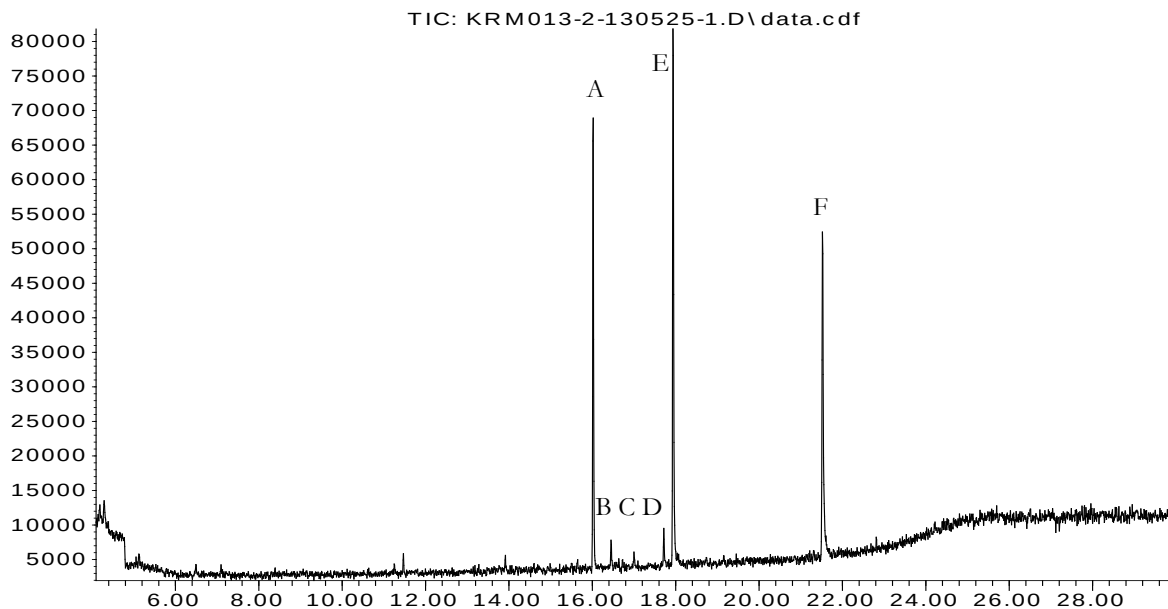
Abundance



SAMPLE KRM013-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) 1-Hexanol. B) Undecane. C) a cyclopentasiloxane. D) Nonanoic Acid, Methyl Ester. E,F) a cyclopentasiloxane. G) ? H) Tetradecanoic Acid, Methyl Ester. I) a cyclopentasiloxane. J) Hexadecanoic Acid, Methyl Ester. K) Octadecenoic Acid, Methyl Ester. L) Octadecanoic Acid, Methyl Ester. M) Bis(2-ethylhexyl)phthalate.

Abundance



SAMPLE KRM013-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) a phthalate plasticiser. C) Heptadecanoic Acid, Methyl Ester. D) Octadecenoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester. F) Bis (2-ethylhexyl)phthalate.

KRM 014

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2167-1, lab 30. Collapse south of wall 2129, palatial context. Rim fragment. Stored in plastic and paper post-excavation.

Sherd Weight: 6.12719g $\pm$ 0.00003g

Sherd Thickness: 9.40mm $\pm$ 0.01mm

Chloroform & Methanol Extracted Residue: 0.01321g $\pm$ 0.00005g (98.58%)

Potassium Hydroxide Extracted Residue: 0.00019g $\pm$ 0.00001g (1.42%)

Total Extracted Residue: 0.01340g $\pm$ 0.00006g

Chloroform Methanol Extraction Yield: 2.16 mg/g

Potassium Hydroxide Extraction Yield: 0.03 mg/g

Total Yield: 2.19 mg/g

Major Peak:

Plasticiser/Hexanol

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

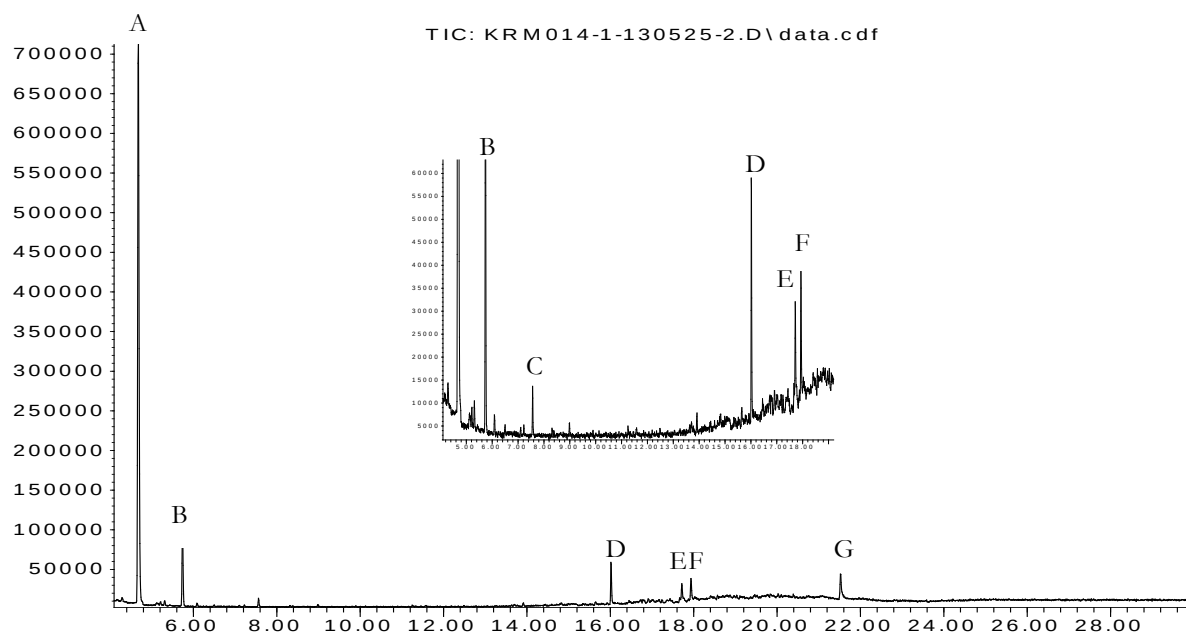
Other Peaks of Note:

- Fatty Acids: C_{14:0}, C_{16:0}, C_{18:0}, C_{18:1}
- Contaminants: Plasticiser

Cross-References:

Locus: 015, 024, 026

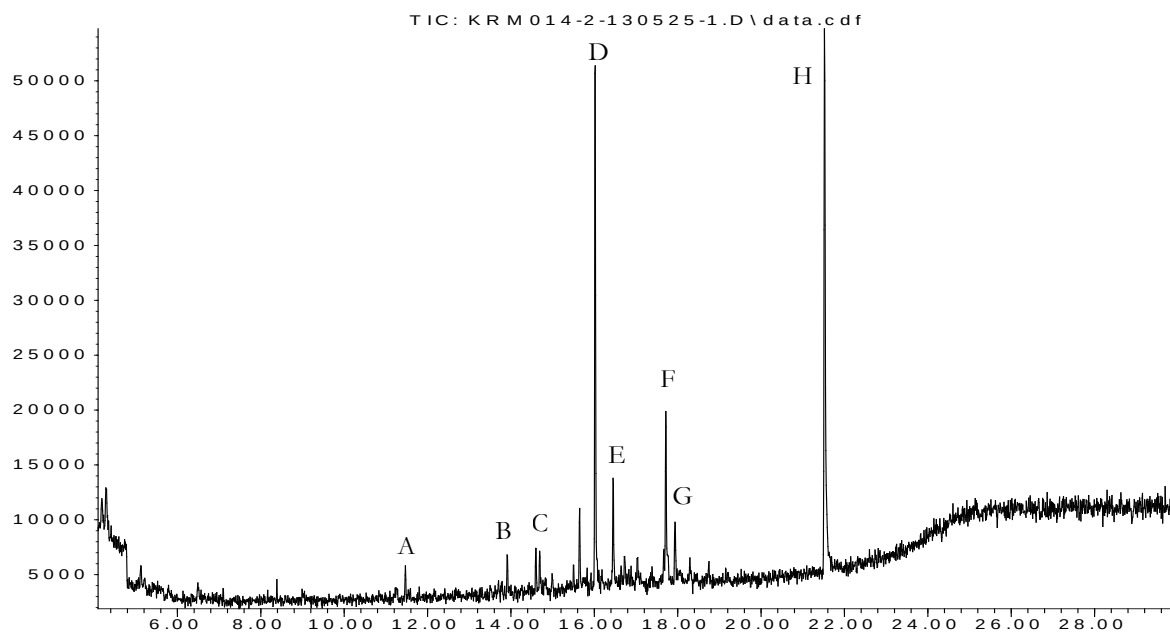
Abundance



SAMPLE KRM014-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) 1-hexanol. B) Undecane. C) Nonanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Octadecenoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester. G) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM014-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Decanoic Acid, Methyl Ester. B) an alkanolic acid methyl ester. C) Tetradecanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) a phthalate plasticiser. F) Octadecenoic Acid, Methyl Ester. G) Octadecanoic Acid, Methyl Ester. H) Bis(2-ethylhexyl)phthalate.

KRM 015

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2167-1, lab 25. Occupational debris, palatial context. Base sherd. Stored in plastic and paper post-excavation.

Sherd Weight: 7.70208g $\pm$ 0.00002g (piece broken off)
 Sherd Thickness: 12.54mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00770g $\pm$ 0.00005g	(73.19%)
Potassium Hydroxide Extracted Residue:	0.00282g $\pm$ 0.00001g	(26.81%)
Total Extracted Residue:	0.01052g $\pm$ 0.00005g	

Chloroform Methanol Extraction Yield:	1.00 mg/g
Potassium Hydroxide Extraction Yield:	0.37 mg/g
Total Yield:	1.37 mg/g

Major Peak:

Plasticiser

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (C_{16:0}, Methyl Palmitate)

Other Peaks of Note:

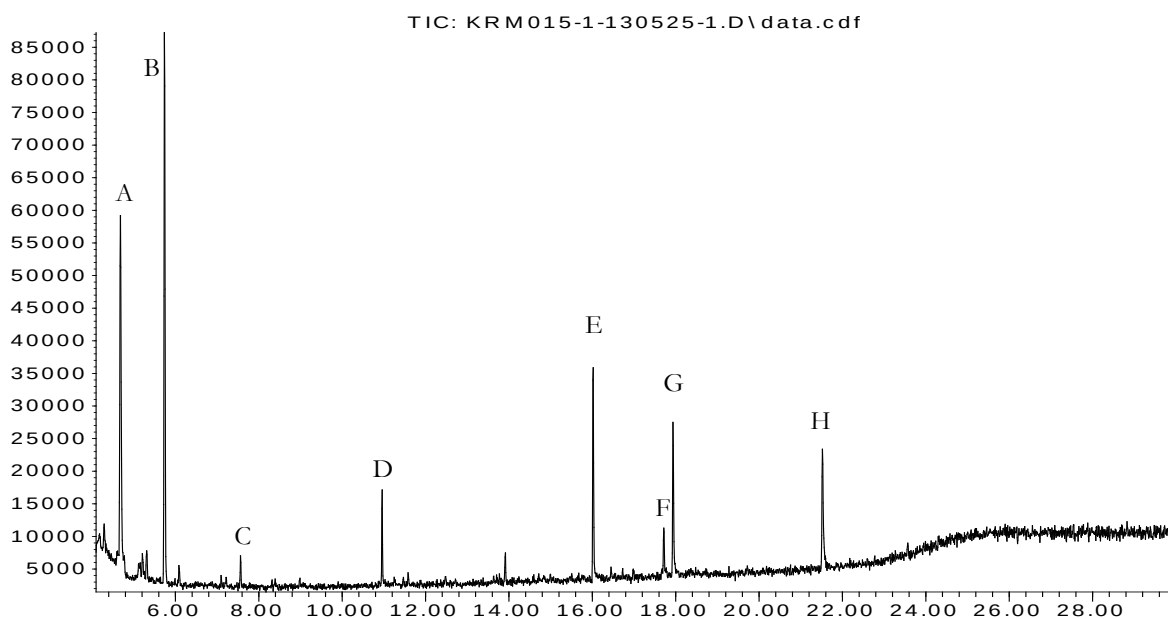
Nonanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

Cross-References:

Locus: 014, 024, 026

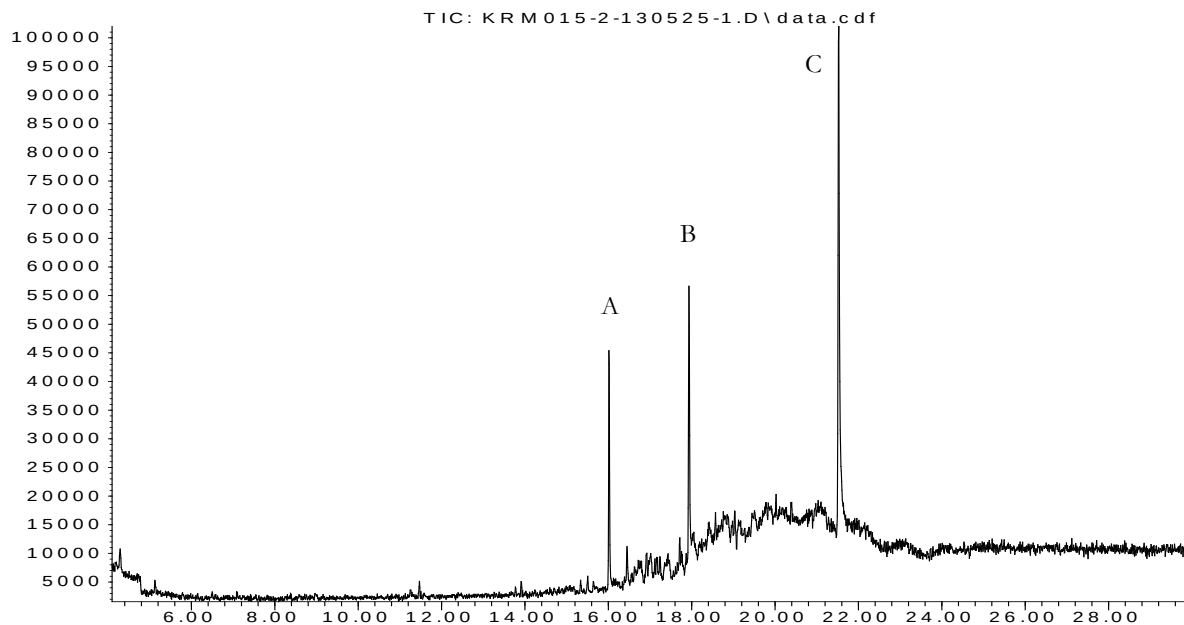
Abundance



SAMPLE KRM015-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) 1-Hexanol. B) Undecane. C) Nonanoic Acid Methyl Ester. D)? n-alkane. E) Hexadecanoic acid methyl ester F) Octadecenoic Acid Methyl Ester. G) Octadecanoic Acid Methyl Ester. H) Bis (2-ethylhexyl)phthalate.

Abundance



SAMPLE KRM015-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid Methyl Ester. B) Octadecanoic Acid Methyl Ester. C) Bis(2-ethylhexyl)phthalate.

KRM 016

Commercial grapeseed oil. Modern.

Sample Weight: 0.00528g $\pm$ 0.00005g

Major Peak:

Octadecadienoic Acid, Methyl Ester (C_{18:2}, Methyl Linoleate)

Secondary Peak:

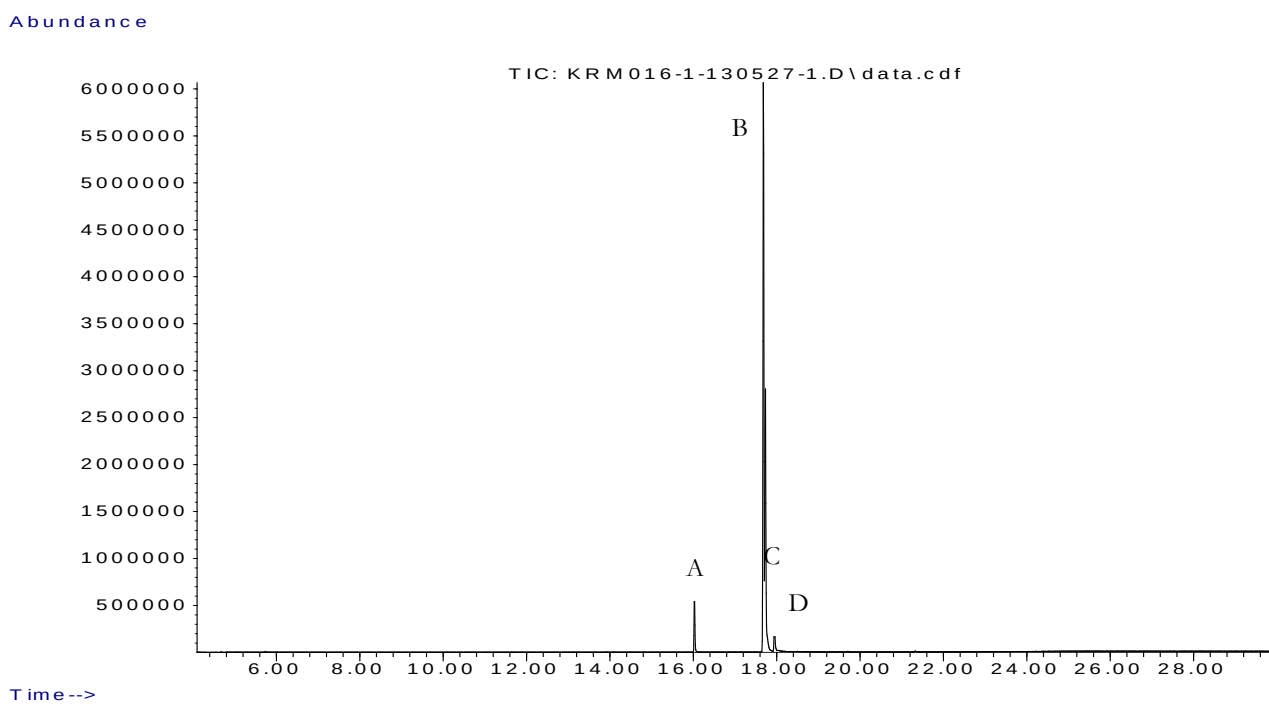
Octadecenoic Acid, Methyl Ester (C_{18:1}, Methyl Oleate)

Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester

Cross-References:

Grapeseed Oil: 170



SAMPLE KRM0016-1: Modern Oil, FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) 9,12 Octadecadienoic Acid, Methyl Ester. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester.

KRM 017

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197-1, lab 40. Drainage deposit, collapse above floor, palatial context. Base fragment. Stored in plastic and paper post-excavation.

Sherd Weight: 6.46795g $\pm$ 0.00001g
 Sherd Thickness: 11.70mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.01518g $\pm$ 0.00003g	(99.61%)
Potassium Hydroxide Extracted Residue:	0.00006g $\pm$ 0.00002g	(0.39%)
Total Extracted Residue:	0.01524g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	2.35 mg/g
Potassium Hydroxide Extraction Yield:	0.01 mg/g
Total Yield:	2.36 mg/g

Major Peak:

Undecane

Secondary Peak:

Nonanoic Acid, Methyl Ester

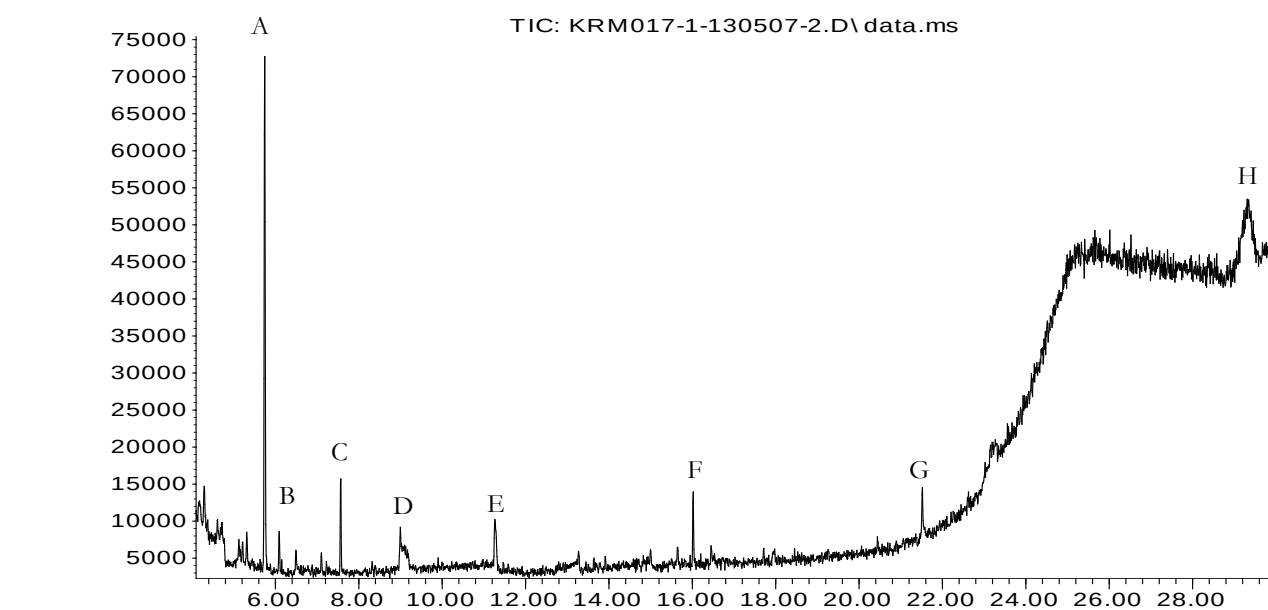
Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester

Cross-References:

Locus: 009, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

Abundance



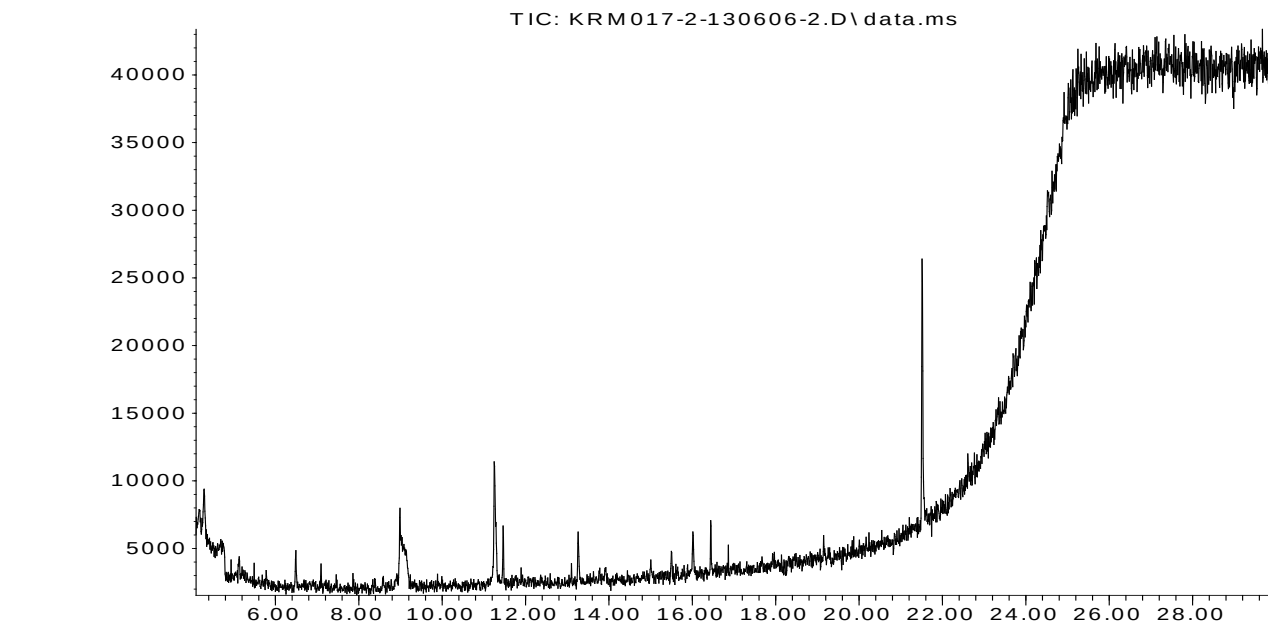
Time-->

0

SAMPLE KRM017-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D-E) siloxanes. F) Hexadecanoic Acid, Methyl Ester. G) a phthalate plasticiser. H) ?

Abundance



Time-->

SAMPLE KRM017-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and phthalate plasticisers.

KRM 018

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-6, fine grid 3. Occupational debris above floor, palatial context. Base sherd. Stored in plastic and paper post-excavation.

Sherd Weight: 3.02668g $\pm$ 0.00002g

Sherd Thickness: 5.61mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00863g $\pm$ 0.00003g (78.96%)

Potassium Hydroxide Extracted Residue: 0.00230g $\pm$ 0.00005g (21.04%)

Total Extracted Residue: 0.01093g $\pm$ 0.00006g

Chloroform Methanol Extraction Yield: 2.85 mg/g

Potassium Hydroxide Extraction Yield: 0.78 mg/g

Total Yield: 3.61 mg/g

Major Peak:

Undecane

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

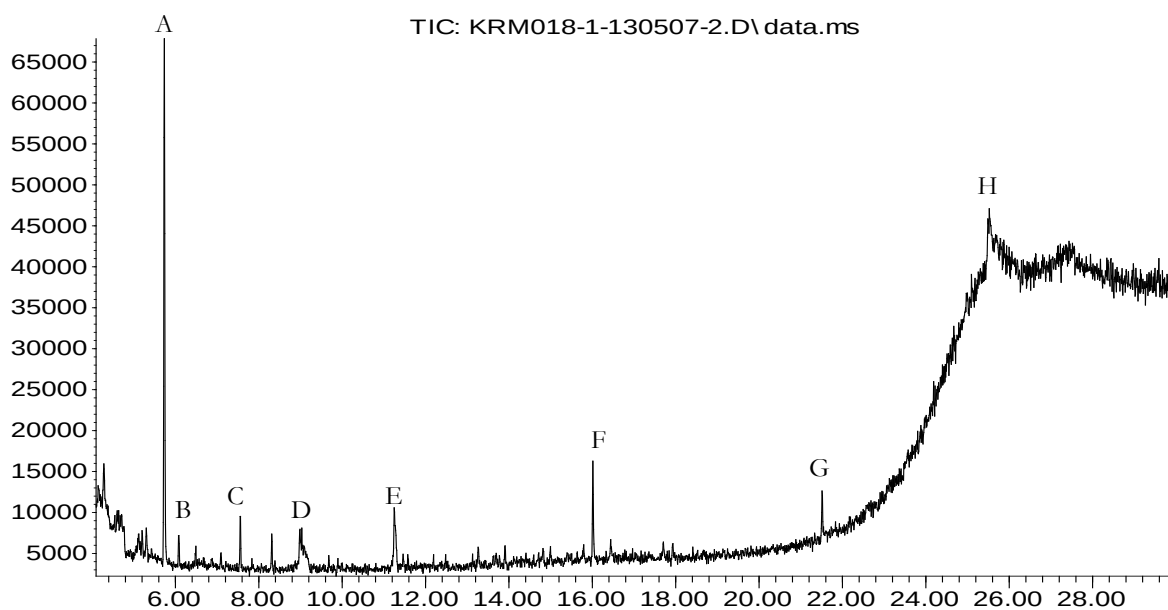
Other Peaks of Note:

Cross-References:

Fine Grid: 008, 022, 025, 028, 029

Locus: 003, 005, 006, 023, 031, 046, 050

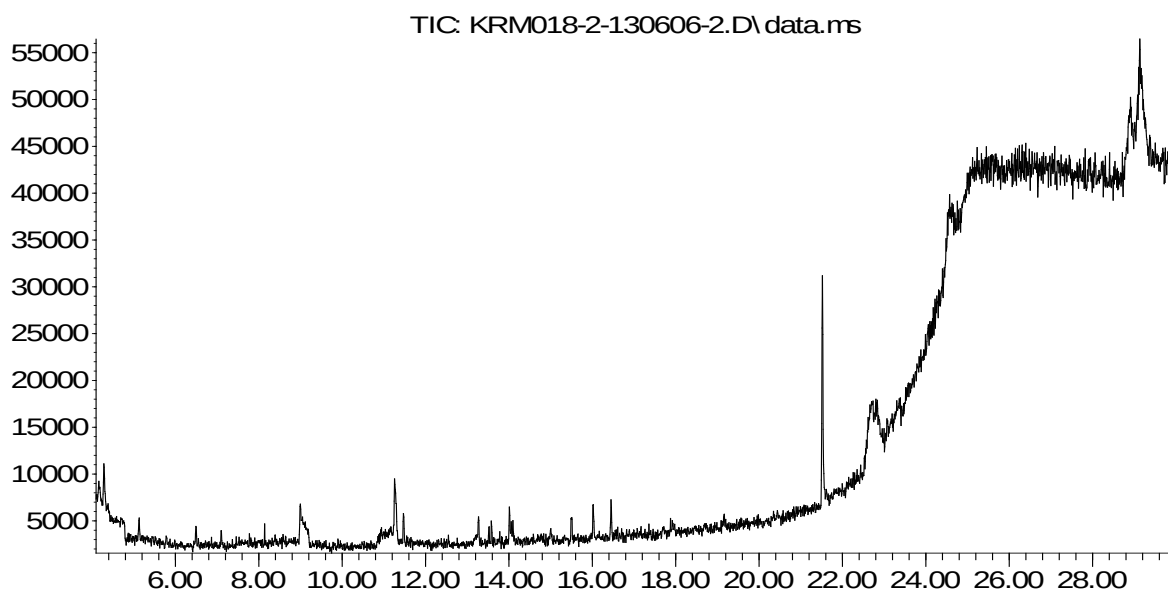
Abundance



SAMPLE KRM018-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Decanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D-E) cyclosiloxanes. F) Hexadecanoic Acid, Methyl Ester. G) Bis-(2ethylhexyl)phthalate. H) ?

Abundance



SAMPLE KRM018-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All phthalates and siloxanes.

KRM 019

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197-8. Palatial context. Kabri Cup, sherd. Stored in plastic and paper post-excavation.

Sherd Weight: $1.85117\text{g} \pm 0.00001\text{g}$

Sherd Thickness: $4.41\text{mm} \pm 0.01\text{mm}$

Chloroform Methanol Extracted Residue: $0.00914\text{g} \pm 0.00001\text{g}$ (99.02%)

Potassium Hydroxide Extracted Residue: $0.00009\text{g} \pm 0.00001\text{g}$ (0.98%)

Total Extracted Residue: $0.00923\text{g} \pm 0.00001\text{g}$

Chloroform Methanol Extraction Yield: 4.94 mg/g

Potassium Hydroxide Extraction Yield: 0.05 mg/g

Total Yield: 4.99 mg/g

Major Peak:

Undecane

Secondary Peak:

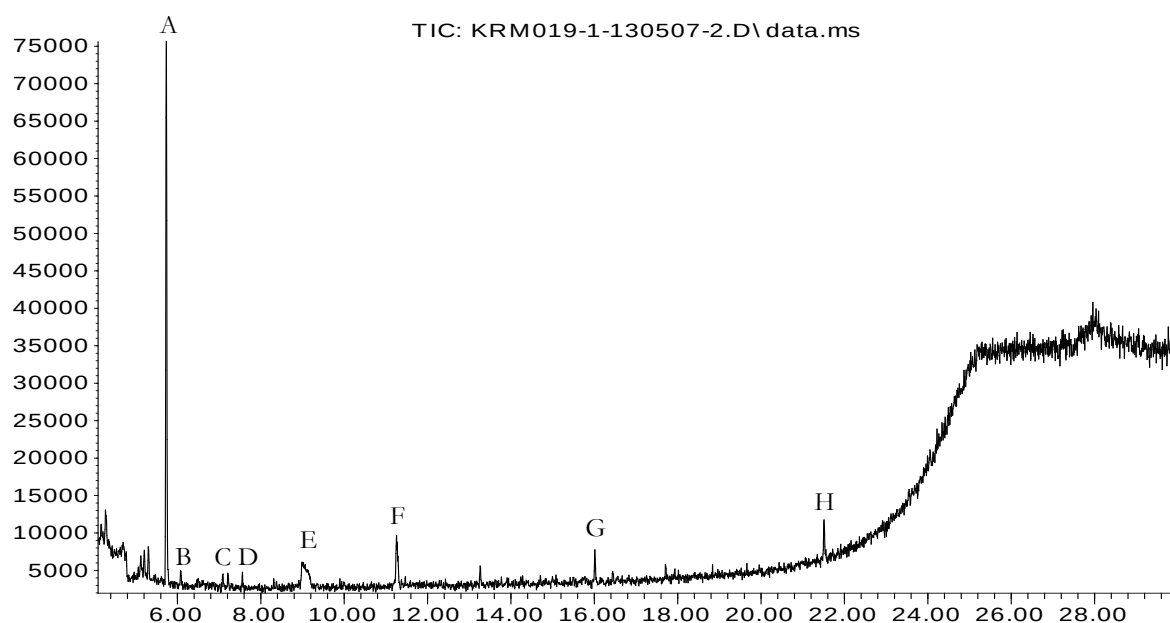
Hexadecanoic Acid Methyl Ester and Bis (2-ethylhexyl)phthalate.

Other Peaks of Note:

Cross-References:

Locus: 009, 017, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

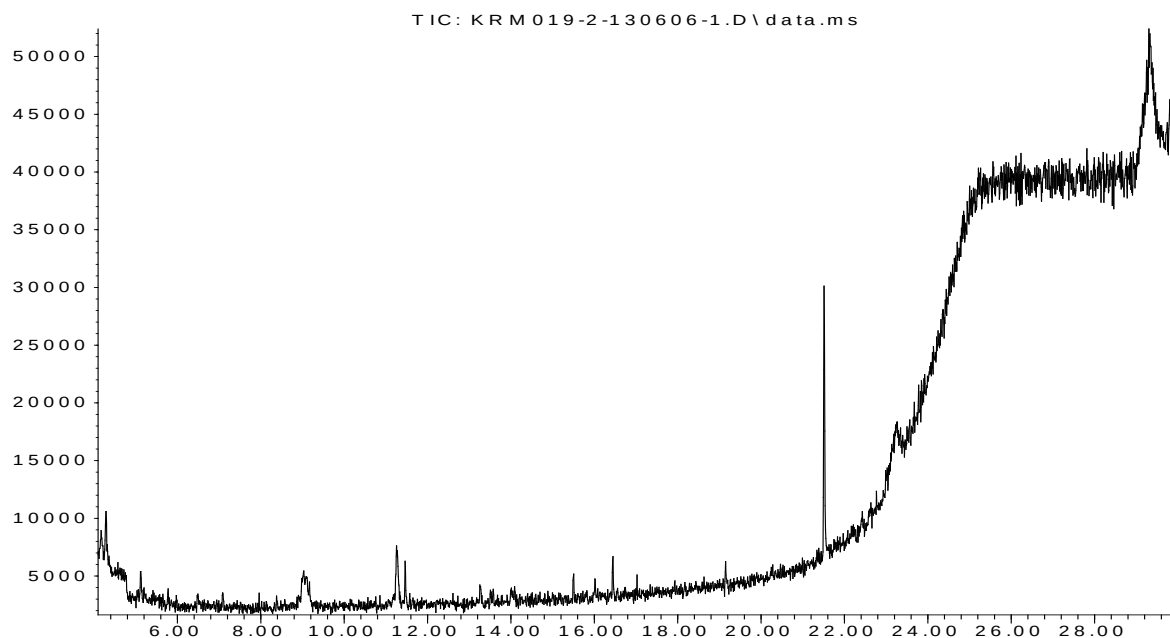
Abundance



SAMPLE KRM019-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) 10-Undecenoic Acid, Methyl Ester. C) Decane. D) Nonanoic Acid, Methyl Ester. E-F) siloxanes. G) Hexadecanoic Acid, Methyl Ester. H) Bis (2-ethylhexyl)phthalate.

Abundance



SAMPLE KRM019-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All plasticisers and siloxanes.

KRM 020

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3054-2. Body sherd from a Cypriot vessel. Stored in paper and plastic post-excavation.

Sherd Weight: 10.37091g $\pm$ 0.00001g

Sherd Thickness: 5.40mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.01578g $\pm$ 0.00004g (99.56%)

Potassium Hydroxide Extracted Residue: 0.00007g $\pm$ 0.00002g (0.44%)

Total Extracted Residue: 0.01585g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 1.52 mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.53 mg/g

Major Peak:

Undecane

Secondary Peak:

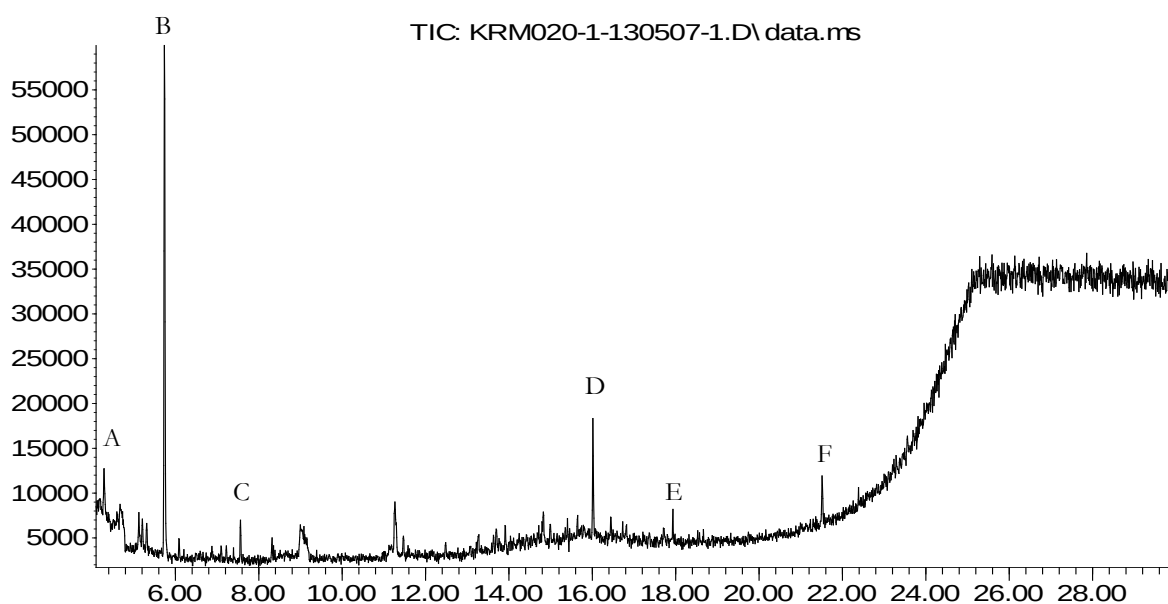
Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester (Methyl Stearate)

Octadecenoic Acid, Methyl Ester (Methyl Oleate)

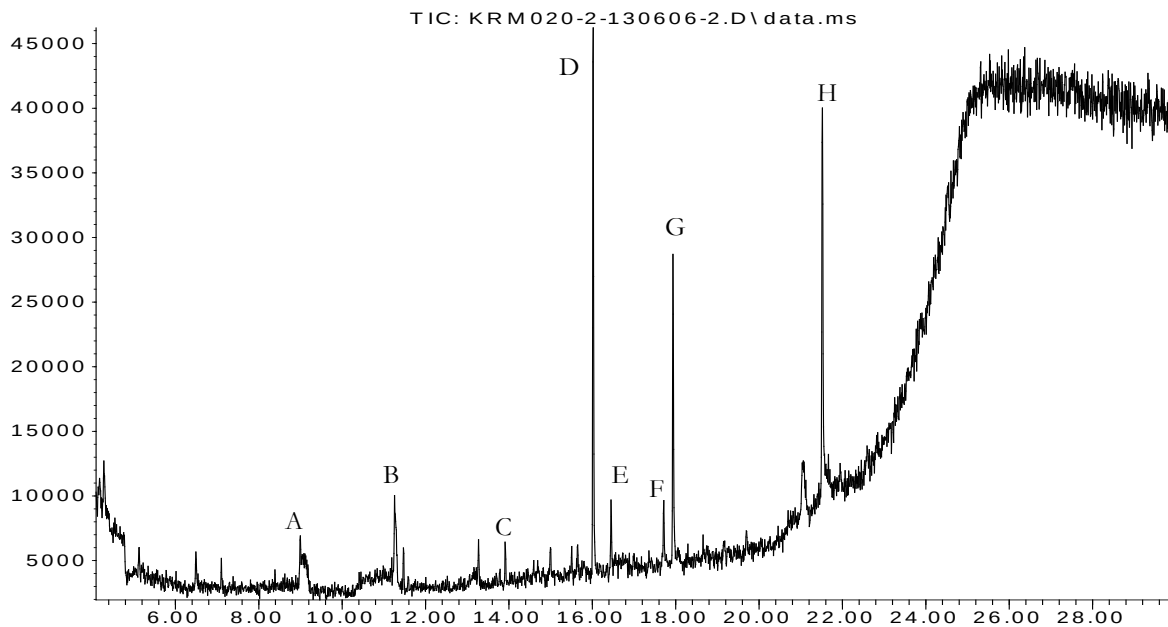
Abundance



SAMPLE KRM020-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Benzene. B) Undecane. C) Nonanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Heptadecanoic Acid, 16-methyl, Methyl Ester. F) Bis(2-ethylhexyl) phthalate.

Abundance



A-B) Siloxanes. C) Tridecanoic Acid, 12-Methyl, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Phthalate Plasticiser. F) 5-Octadecenoic Acid, Methyl Ester. G) Octadecanoic Acid, Methyl Ester. H) Bis(2-ethylhexyl) phthalate.

KRM 021

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3060-11, lab 9. Rim sherd from a carinated bowl. Stored in plastic and paper post-excavation.

Sherd Weight: 6.17337g $\pm$ 0.00002g

Sherd Thickness: 5.84mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00635g $\pm$ 0.00003g (99.06%)

Potassium Hydroxide Extracted Residue: 0.00006g $\pm$ 0.00003g (0.94%)

Total Extracted Residue: 0.00641g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 1.03 mg/g

Potassium Hydroxide Extraction Yield: 0.01 mg/g

Total Yield: 1.04 mg/g

Major Peak:

Undecane

Phthalate Plasticiser

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

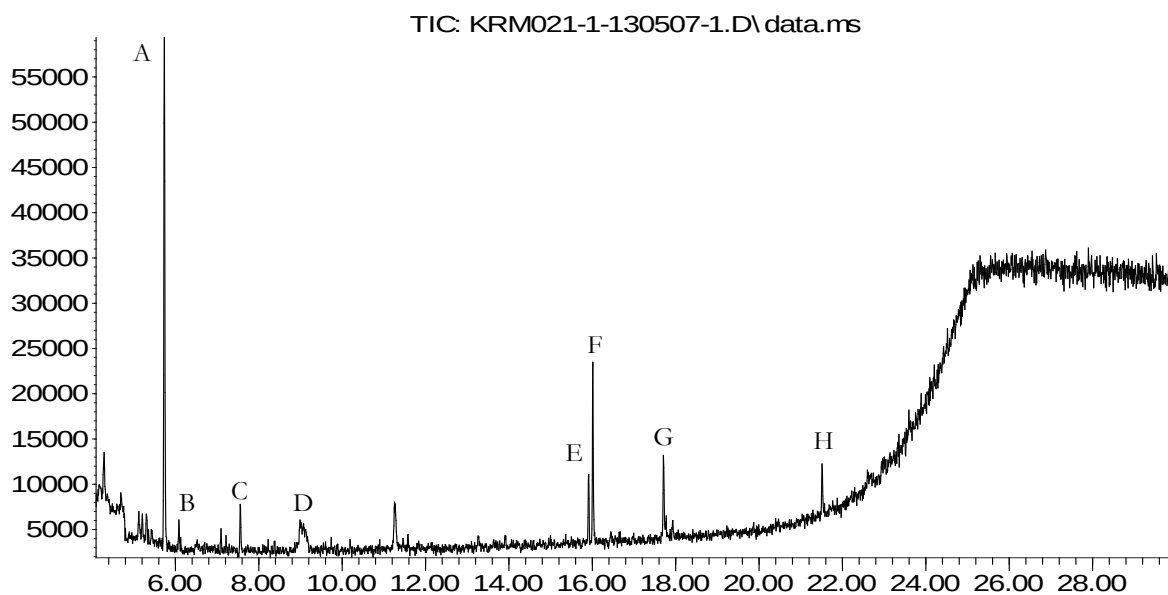
Octadecenoic Acid (Methyl Oleate)

Hexadecenoic Acid, Methyl Ester

Cross-References:

Locus: 004, 040, 041, 045, 048

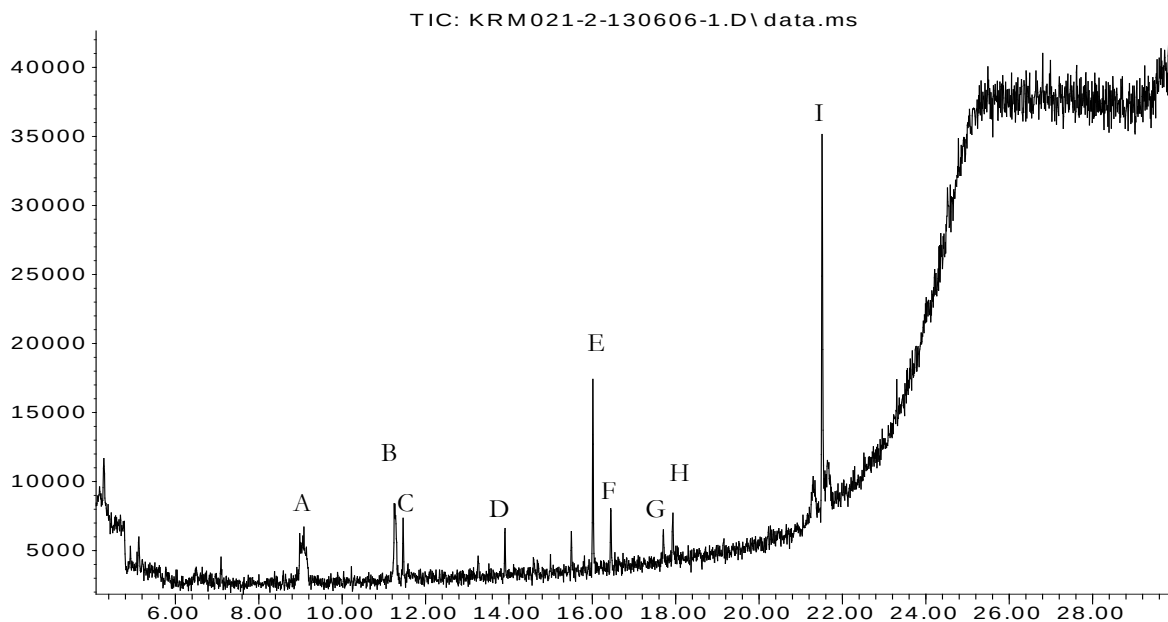
Abundance



SAMPLE KRM021-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D) Siloxanes. E) 7-Hexadecenoic Acid, Methyl Ester. F) Hexadecanoic Acid, Methyl Ester. G) Octadecenoic Acid, Methyl Ester. H) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM021-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A-B) Siloxanes. C) A Phenol. D) Decanoic Acid, Methyl Ester. E) Hexadecanoic Acid, Methyl Ester. F) A Plasticiser. G) 9-Octadecenoic Acid, Methyl Ester. H) Heptadecanoic Acid, 16-methyl, Methyl Ester. I) Bis(2-ethylhexyl)phthalate.

KRM 022

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-6, fine grid 3, lab 33.
Occupational debris, palatial context. Rim fragment, stored in plastic and paper.

Sherd Weight: 1.63117g $\pm$ 0.00001g
Sherd Thickness: 5.35mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.03475g $\pm$ 0.00001g
Potassium Hydroxide Extracted Residue: insignificant
Total Extracted Residue: 0.03475g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 2.13 mg/g
Potassium Hydroxide Extraction Yield: insignificant
Total Yield: 2.13 mg/g

Major Peak:

Undecane

Secondary Peak(s):

Nonanoic Acid, Methyl Ester

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

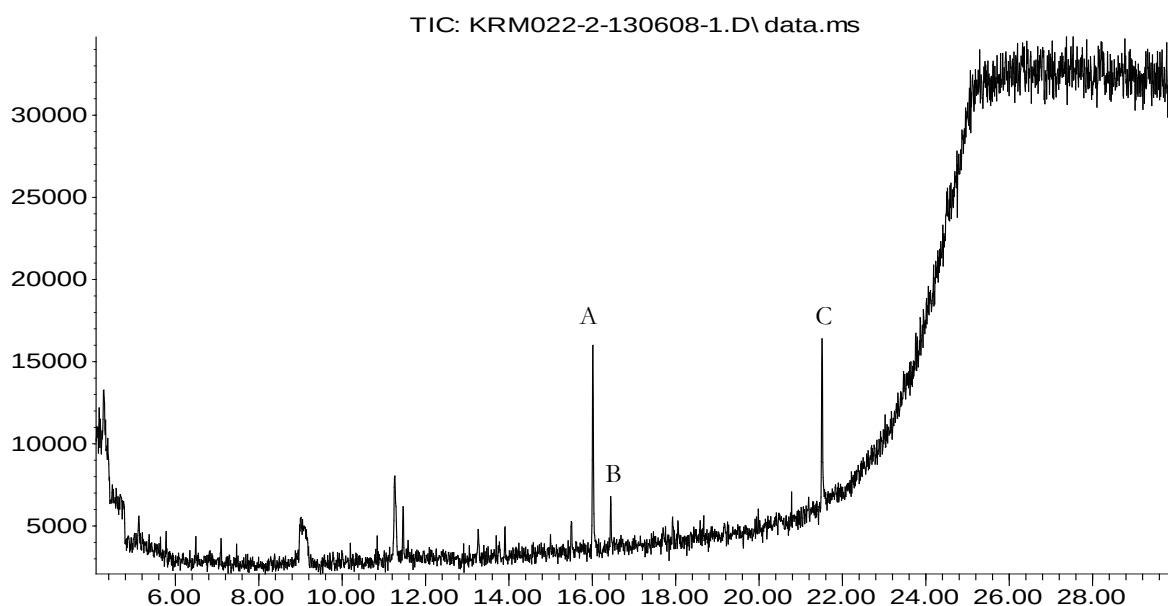
Series of alkanoic acids: C₆, C₇, C₈, C₉, C₁₀, C₁₄, C₁₆, C₁₈.

Cross-References:

Fine Grid: 008, 018, 025, 028, 029

Locus: 003, 005, 006, 023, 031, 046, 050

Abundance

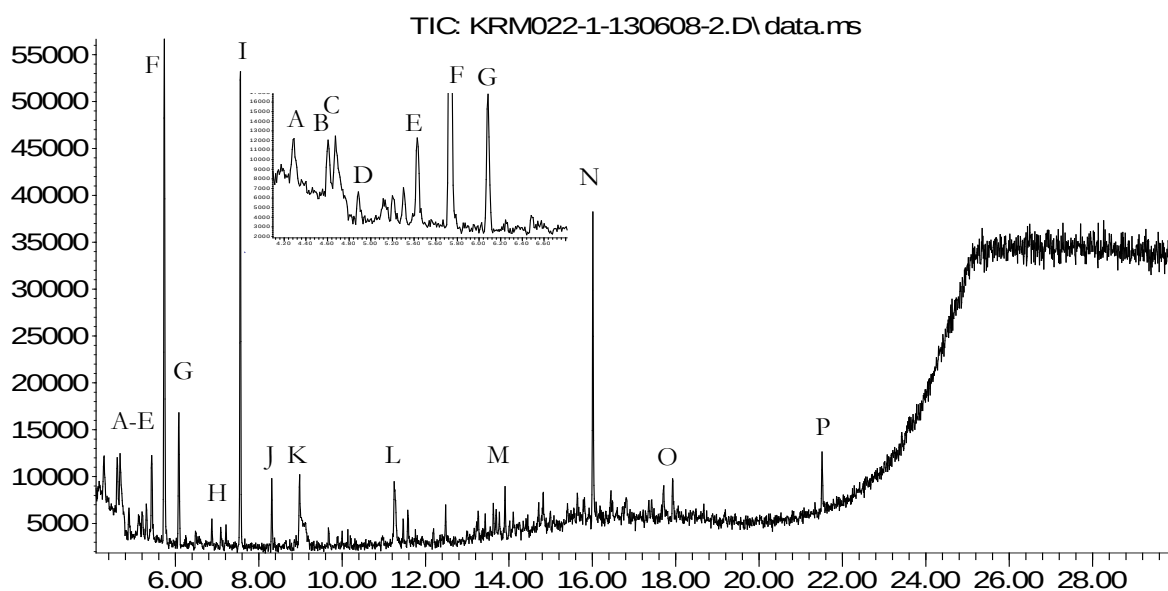


Time-->

SAMPLE KRM022-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Heptanoic Acid, Methyl Ester. C) 2-ethyl, 1-Hexanol (?) D) Hexanoic Acid, 2-ethyl, Methyl Ester. E)? Fatty acid, methyl ester. F) Undecane. G) Octanoic Acid, Methyl Ester. H). Octanal Dimethyl Acetal. I) Nonanoic Acid, Methyl Ester. J) Nonanal Dimethyl Acetal. K) Decanoic Acid, Methyl Ester. L) Siloxane M) Methyl Tetradecanoate. N) Hexadecanoic Acid, Methyl Ester. O) Octadecanoic Acid, Methyl Ester. P) Bis(2-ethylhexyl) Phthalate.

Abundance



Time-->

SAMPLE KRM022-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) A Plasticiser. C) Bis(2-ethylhexyl) Phthalate.

KRM 023

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-10, fine grid 6, lab 21.
Palatial context, occupational debris above floor. Body sherd. Stored in plastic and paper
post-excavation.

Sherd Weight: 8.54733g $\pm$ 0.00004g
Sherd Thickness: 10.16mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.03097g $\pm$ 0.00003g	(99.58%)
Potassium Hydroxide Extracted Residue:	0.00013g $\pm$ 0.00002g	(0.42%)
Total Extracted Residue:	0.03110g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	3.62 mg/g
Potassium Hydroxide Extraction Yield:	0.02 mg/g
Total Yield:	3.64 mg/g

Major Peak:

Undecane

Secondary Peak:

Nonanoic Acid, Methyl Ester

Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Series of alkanoic acids: C₇, C₈, C₉, C₁₀, C₁₃, C₁₄, C₁₆, C₁₈

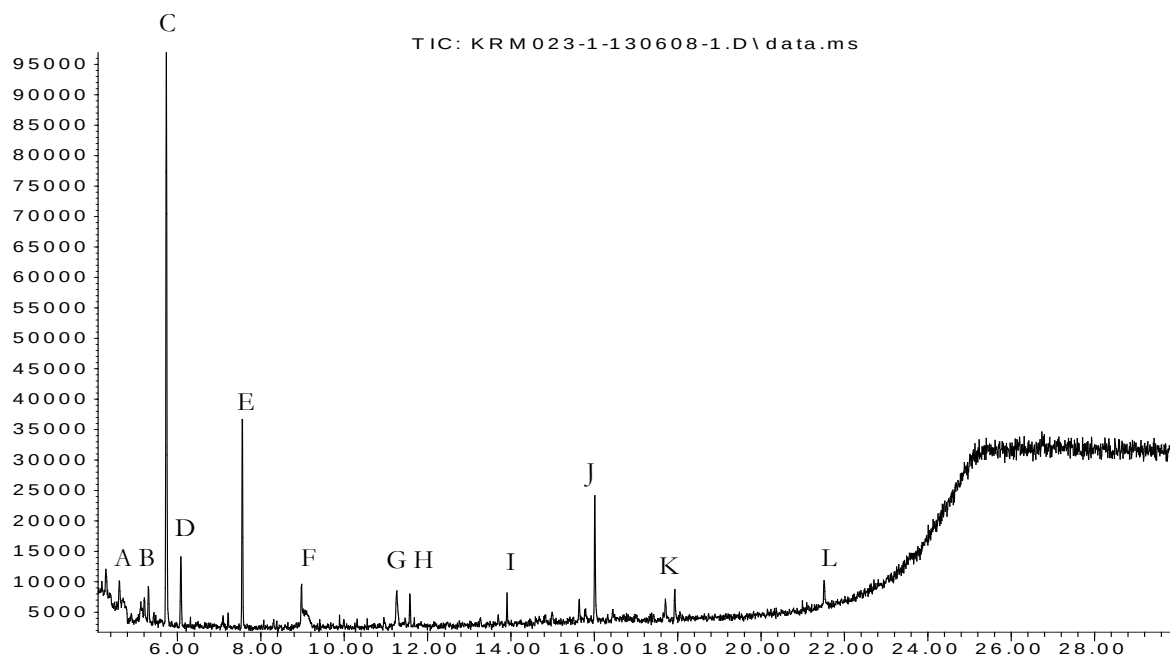
Phthalate Plasticisers

Cross References:

Fine Grid: 031

Locus: 003, 005, 006, 008, 018, 022, 025, 028, 029, 046, 050

Abundance

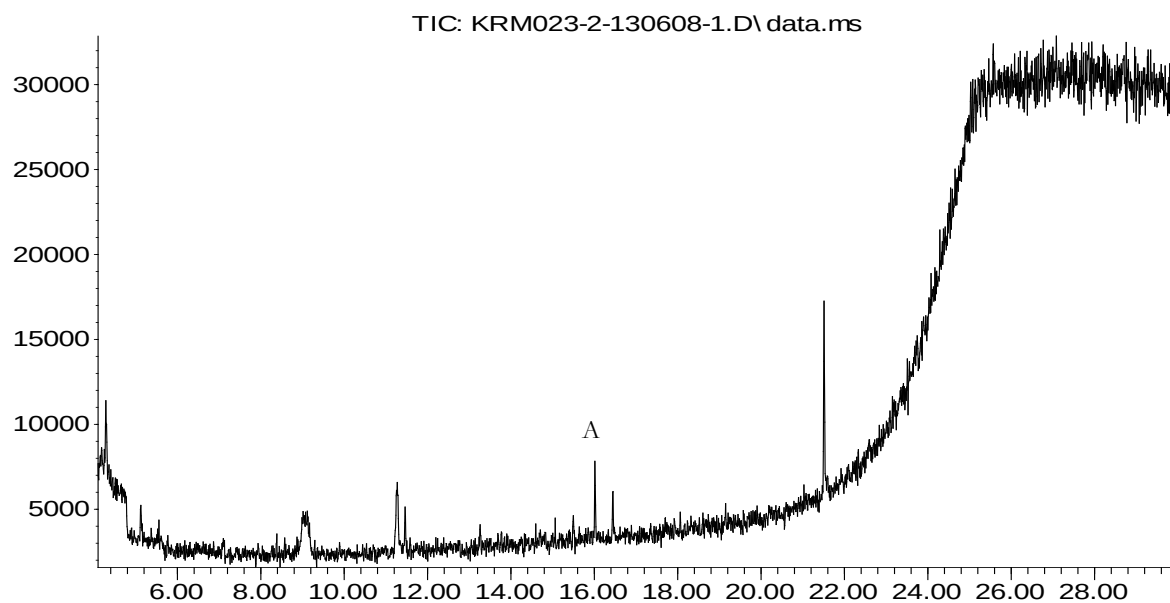


Time-->

SAMPLE KRM023-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Heptanoic Acid, Methyl Ester. B) Eicosane. C) Undecane D) Octanoic Acid, Methyl Ester. E) Nonanoic Acid, Methyl Ester. F) Decanoic Acid. G) A Siloxane. H) Tridecanoic Acid, Methyl Ester. I) Methyl Tetradecanoate. J) Hexadecanoic Acid, Methyl Ester. K) Octadecanoic Acid. L) Bis(2-ethylhexyl) Phthalate.

Abundance



Time-->

SAMPLE KRM023-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester.
All other peaks are either siloxanes or plasticisers

KRM 024

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2167-2. Palatial context, occupational debris. Rim fragment, stored in plastic and paper.

Sherd Weight: 7.40579g $\pm$ 0.00004g
 Sherd Thickness: 10.42mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.03275g $\pm$ 0.00005g
 Potassium Hydroxide Extracted Residue: insignificant
 Total Extracted Residue: 0.03275g $\pm$ 0.00005g

Chloroform Methanol Extraction Yield: 4.42 mg/g
 Potassium Hydroxide Extraction Yield: insignificant
 Total Yield: 4.42 mg/g

Major Peak:

Undecane

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Secondary Peak:

Octadecenoic Acid, Methyl Ester (Methyl Oleate)

Octadecanoic Acid, Methyl Ester (Methyl Stearate)

Nonanoic Acid, Methyl Ester

Other Peaks of Note:

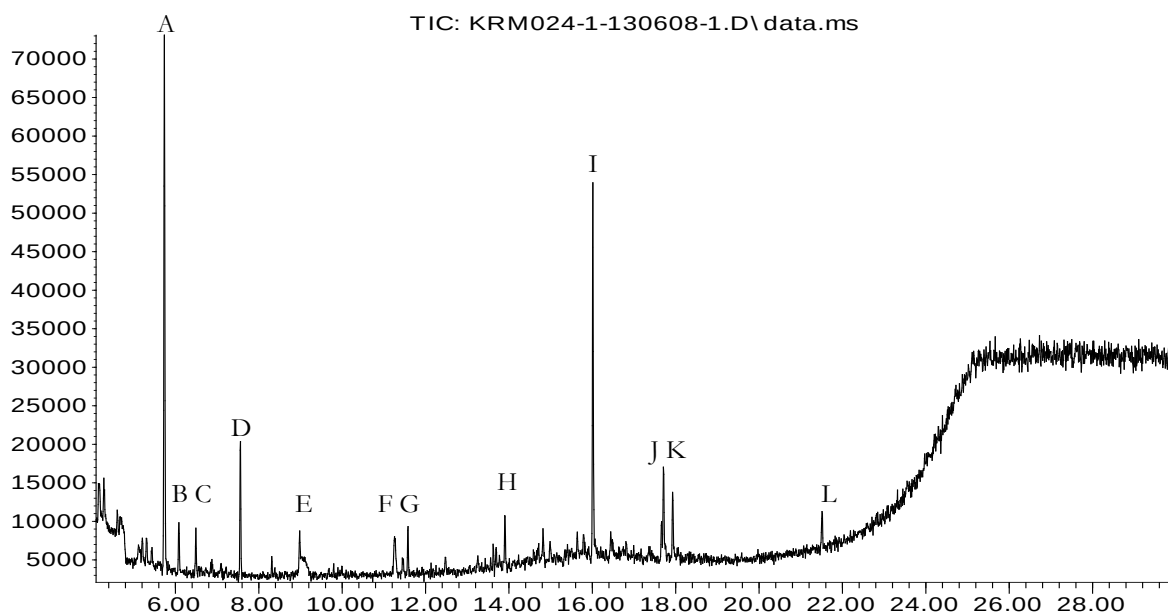
Series of Alkanoic Acids: C₈, C₉, C₁₀, C₁₃, C₁₆, C₁₈

Phthalate Plasticisers

Cross-References:

Locus: 014, 015, 026

Abundance

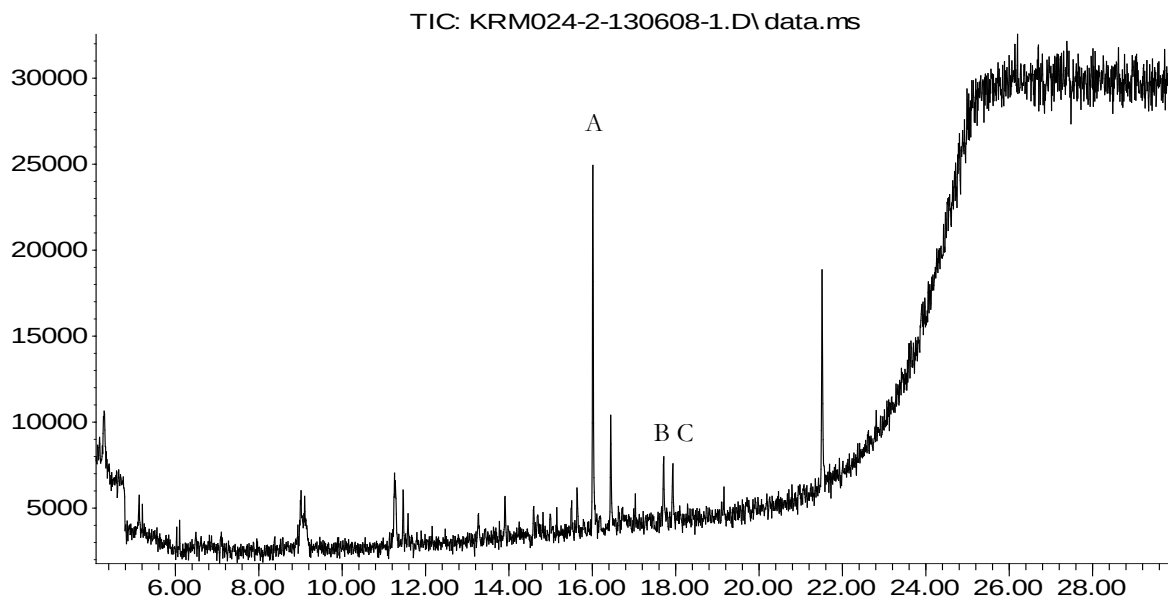


Time-->

SAMPLE KRM024-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Octanoic Acid, Methyl Ester. C) A Siloxane D) Nonanoic Acid, Methyl Ester. E)? alkanoic acid. F) A Siloxane. G) Dodecanoic Acid, Methyl Ester. H) Tridecanoic Acid, Methyl Ester. I) Hexadecanoic Acid, Methyl Ester. J) Octadecenoic Acid, Methyl Ester. K) Octadecanoic Acid, Methyl Ester. L) Bis(2-ethylhexyl) Phthalate.

Abundance



Time-->

SAMPLE KRM024-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Ester. B) Octadecenoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester.

All other peaks are siloxanes and plasticisers.

KRM 025

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-6, fine grid 3, lab 31.
 Palatial context, occupational debris above floor. Red slip, rim fragment. Stored in plastic
 and paper post-excavation.

Sherd Weight: 4.14700g $\pm$ 0.00001g
 Sherd Thickness: 7.18mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.02317g $\pm$ 0.00001g	(99.83%)
Potassium Hydroxide Extracted Residue:	0.00004g $\pm$ 0.00001g	(0.17%)
Total Extracted Residue:	0.02321g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	5.59 mg/g
Potassium Hydroxide Extraction Yield:	0.01 mg/g
Total Yield:	5.60 mg/g

Major Peak:

Undecane

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Secondary Peak:

Nonanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester (Methyl Stearate)

Other Peaks of Note:

Octadecenoic Acid, Methyl Ester (Methyl Oleate)

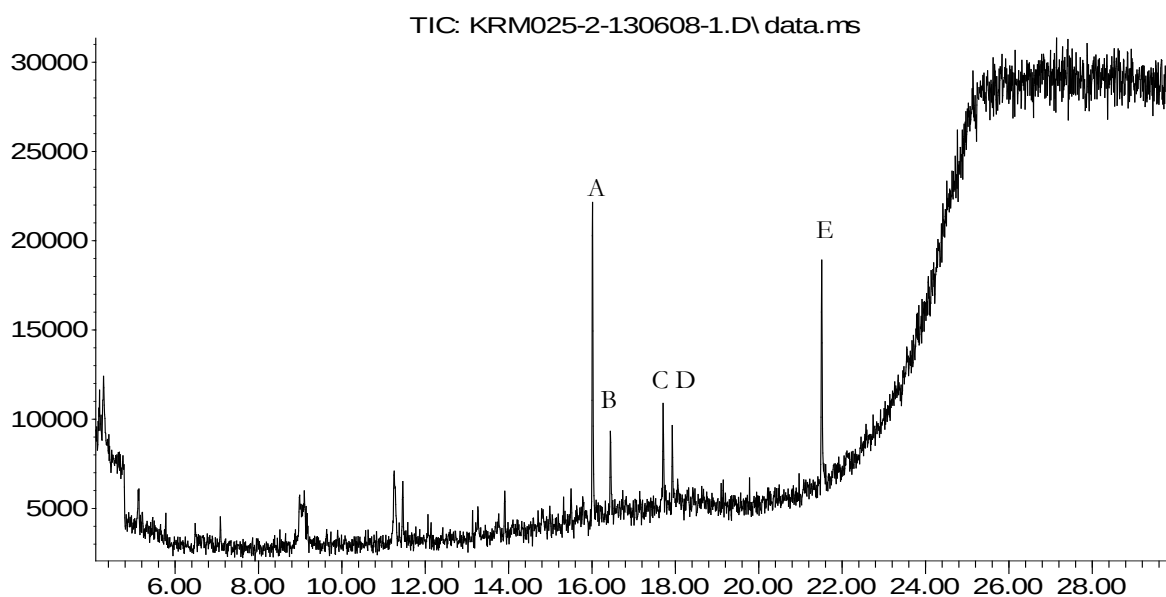
C₇, C₈, C₉, C₁₆, C₁₈

Cross-References:

Fine Grid: 008, 018, 022, 028, 029

Locus: 003, 005, 006, 023, 031, 046, 050

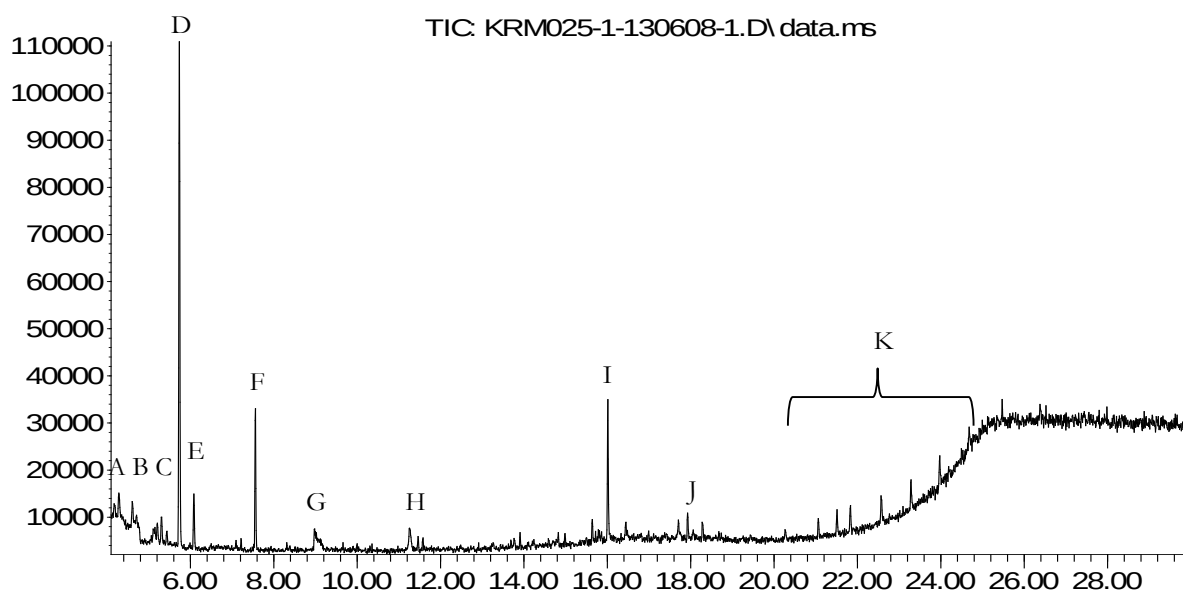
Abundance



SAMPLE KRM025-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Heptanoic Acid, Methyl Ester. C) Eicosane. D) Undecane. E) Octanoic Acid, Methyl Ester.
F) Nonanoic Acid, Methyl Ester. G-H) Siloxanes. I) Hexadecanoic Acid, Methyl Ester. J) Octadecanoic Acid,
Methyl Ester. K) Series of cosanes.

Abundance



SAMPLE KRM025-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Hexadecanoic Acid, Methyl Acid. B) a phthalate. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic
Acid, Methyl Ester. E) Bis (2-ethylhexyl) Phthalate.

KRM 026

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2167-1. Palatial context, occupational debris. Rim fragment. Stored in plastic and paper post-excavation.

Sherd Weight: 2.99558g $\pm$ 0.00004g

Sherd Thickness: 9.15mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.02886g $\pm$ 0.00001g (99.93%)

Potassium Hydroxide Extracted Residue: 0.00002g $\pm$ 0.00001g (0.07%)

Total Extracted Residue: 0.02888g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 9.63 mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 9.64 mg/g

Major Peak:

Bis(2-ethylhexyl) Phthalate

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester (methyl Stearate)

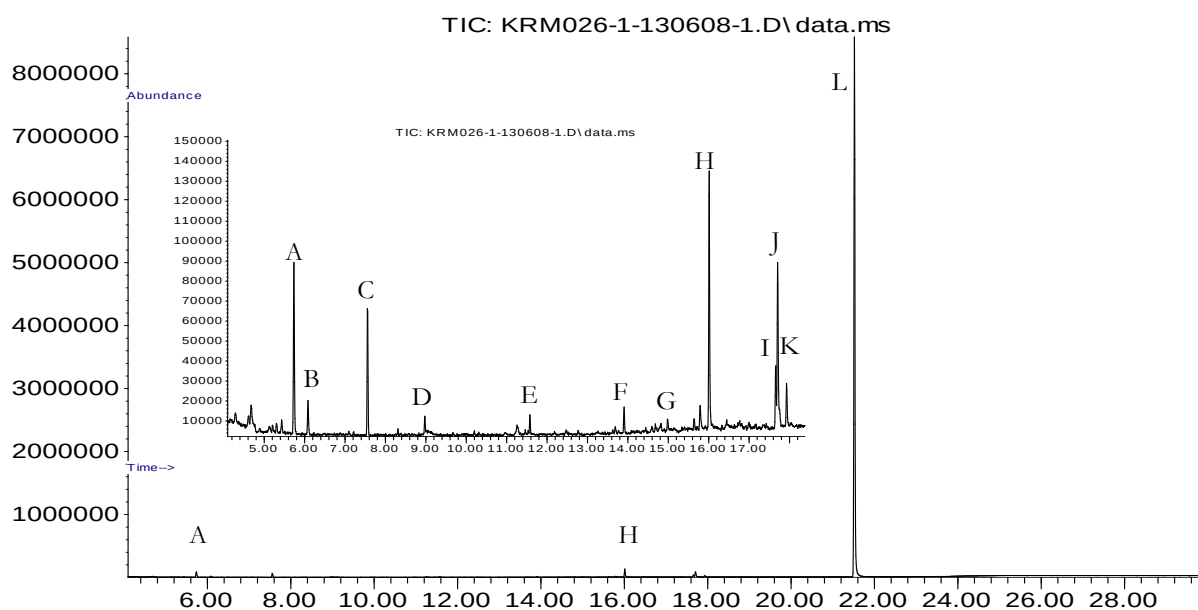
Octadecenoic Acid, Methyl Ester (Methyl Oleate)

Octadecadienoic Acid, Methyl Ester

Cross-References:

Locus: 014, 015, 026

Abundance

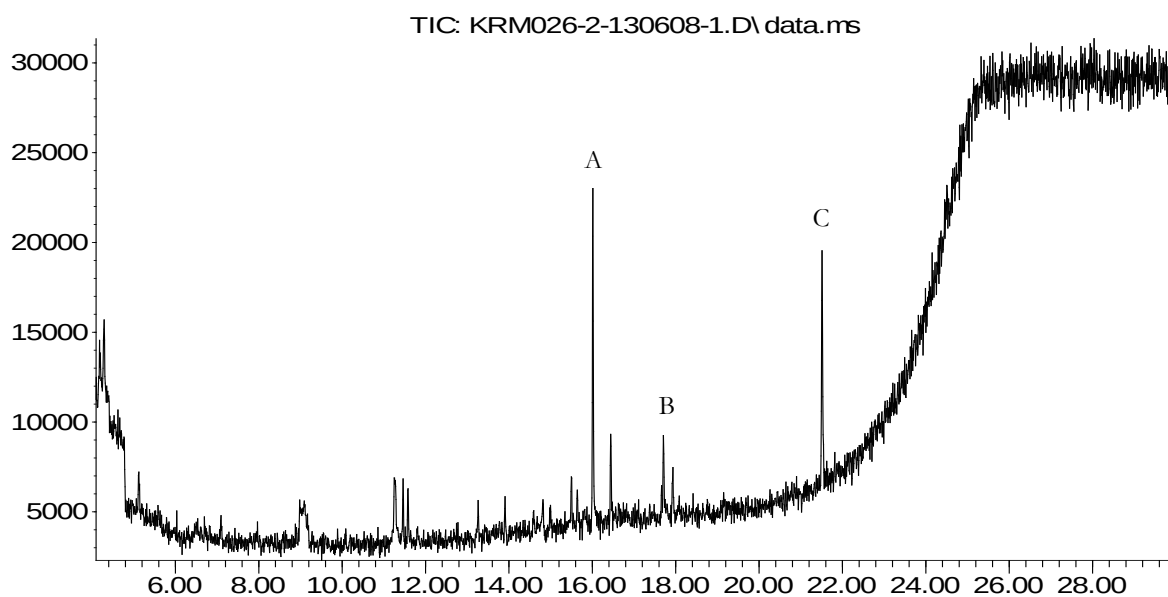


Time-->

SAMPLE KRM026-1: Chloroform/Methanol Extraction and FAME Derivatisation

- A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D) Decanoic Acid, Methyl Ester. E) Dodecanoic Acid, Methyl Ester. F) Tetradecanoic Acid, Methyl Ester. G) Pentadecanoic Acid, Methyl Ester. H) Hexadecanoic Acid, Methyl Ester. I) 9,15-Octadecadienoic Acid, Methyl Ester. J) 9-Octadecenoic Acid, Methyl Ester. K) Octadecanoic Acid, Methyl Ester. L) Bis(2-ethylhexyl) Phthalate.

Abundance



Time-->

SAMPLE KRM026-2: Potassium Hydroxide Extraction and FAME Derivatisation

- A) Hexadecanoic Acid, Methyl Ester. B) Octadecenoic Acid, Methyl Ester. C) Bis (2-ethylhexyl) Phthalate.

KRM 027

Modern Burt's Bees.

Sample Weight: 0.01071g $\pm$ 0.00006g

Extract Weight: 0.00625g $\pm$ 0.00001g

Lipid Content: 58.357%

Major Peaks:

Dodecanoic Acid, Methyl Ester

Octadecenoic Acid, Methyl Ester (Methyl Oleate)

Secondary Peak:

Tetradecanoic Acid, Methyl Ester

Other Peaks of Note:

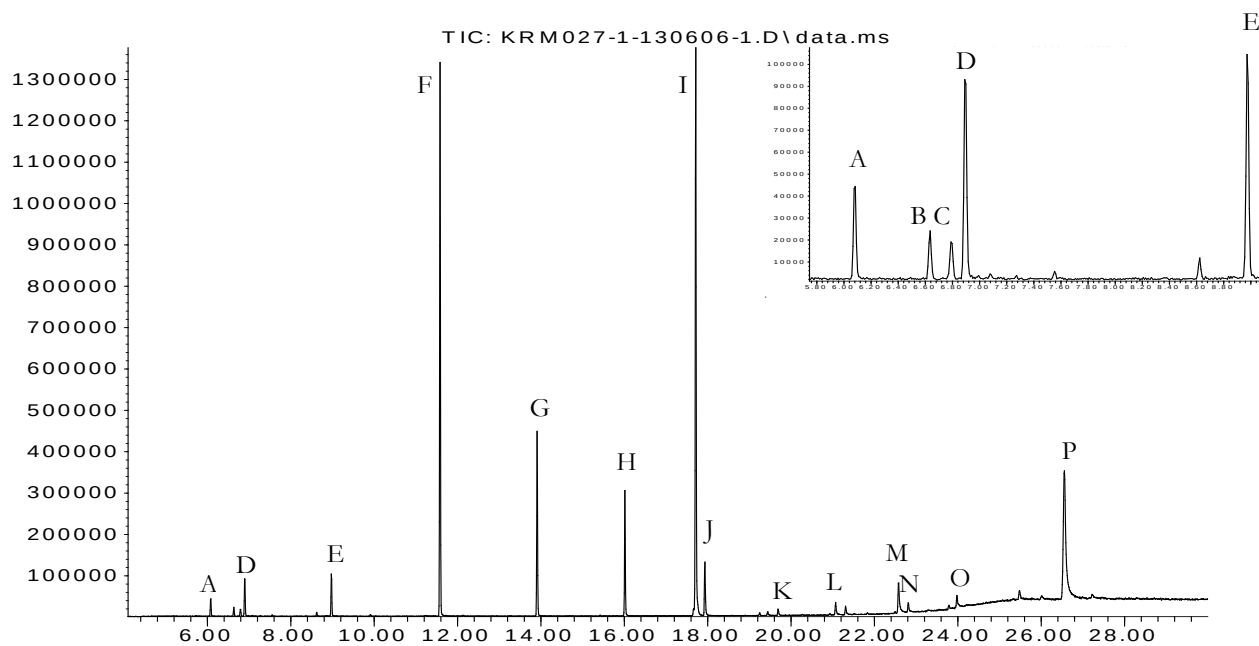
Alkanoic Acids: C_{8:0}, C_{10:0}, C_{12:0}, C_{14:0}, C_{16:0}, C_{18:0}, C_{20:0}, C_{24:0}

Menthone

Levomenthol

Vitamin E

Abundance



SAMPLE 027: Modern Fat/Oil, FAME Derivatisation

A) Octanoic Acid, Methyl Ester. B) I-Menthone. C) a Menthone derivative. D) Levomenthol. E) Decanoic Acid, Methyl Ester. F) Dodecanoic Acid, Methyl Ester. G) Tetradecanoic Acid, Methyl Ester. H) Hexadecanoic Acid, Methyl Ester. I) 9-Octadecenoic Acid, Methyl Ester. J) Octadecanoic Acid, Methyl Ester. K) Eicosanoic Acid, Methyl Ester. L) Hexacosane. M) Eicosane. N) Tetracosanoic Acid, Methyl Ester. O) Tetracosane. P) Vitamin E.

KRM 028

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-6, fine grid 3, lab 23.
 Palatial context, occupational debris above floor. Body Sherd. Stored in plastic and paper
 post-excavation.

Sherd Weight: 4.55058g $\pm$ 0.00001g
 Sherd Thickness: 17.23mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00913 g $\pm$ 0.00001g	(97.23%)
Potassium Hydroxide Extracted Residue:	0.00026 g $\pm$ 0.00001g	(2.77%)
Total Extracted Residue:	0.00939 g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	2.01 mg/g
Potassium Hydroxide Extraction Yield:	0.06 mg/g
Total Yield:	2.06 mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Bis(2-ethylhexyl) Phthalate

Other Peaks of Note:

Octanoic Acid, Methyl Ester

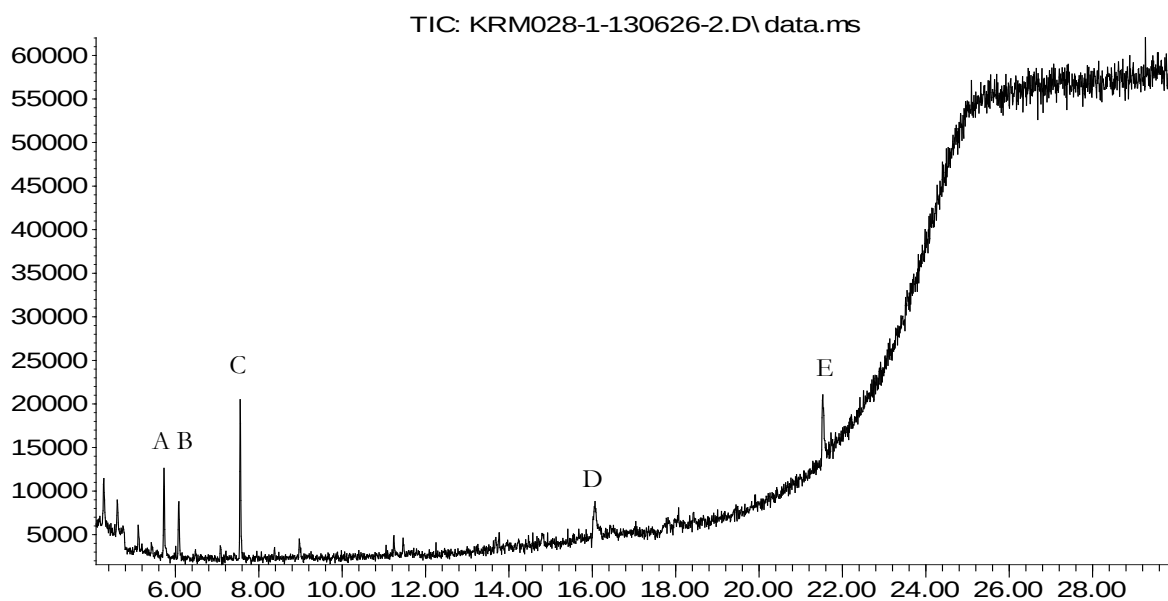
Hexadecanoic Acid, Methyl Ester

Cross-References:

Fine Grid: 008, 018, 022, 025, 029

Locus: 003, 005, 006, 023, 031, 046, 050

Abundance

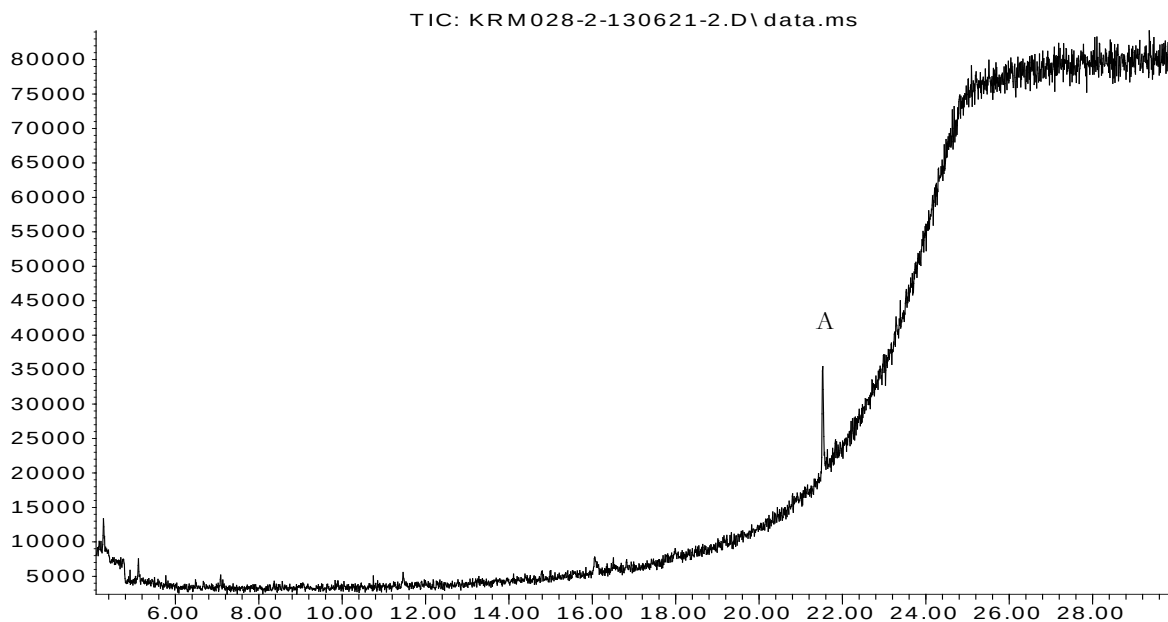


Time-->

SAMPLE KRM028-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Bis(2-ethylhexyl) Phthalate.

Abundance



Time-->

SAMPLE KRM 028-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

A) Bis(2-ethylhexyl) Phthalate.

KRM 029

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-6, fine grid 3, lab 29. Palatial context, occupational debris above a floor. Rim sherd. Stored in plastic and paper post-excavation.

Sherd Weight: 3.09418g $\pm$ 0.00002g
 Sherd Thickness: 8.01mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00384g $\pm$ 0.00002g	(96.24%)
Potassium Hydroxide Extracted Residue:	0.00015g $\pm$ 0.00001g	(3.76%)
Total Extracted Residue:	0.00399g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	1.24 mg/g
Potassium Hydroxide Extraction Yield:	0.05 mg/g
Total Yield:	1.29 mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Bis(2-ethylhexyl) Phthalate

Other Peaks of Note:

Undecane

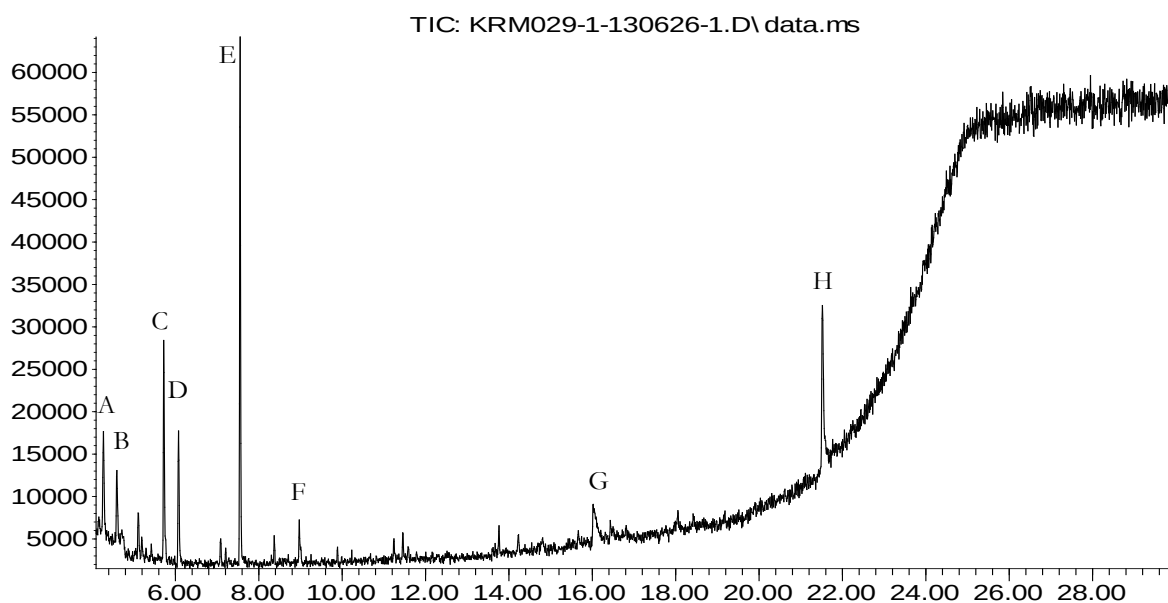
Alkanoic Acids: C_{7:0}, C_{8:0}, C_{9:0}, C_{10:0}, C_{16:0}

Cross-References:

Fine Grid: 008, 018, 022, 025, 028

Locus: 003, 005, 006, 023, 031, 046, 050

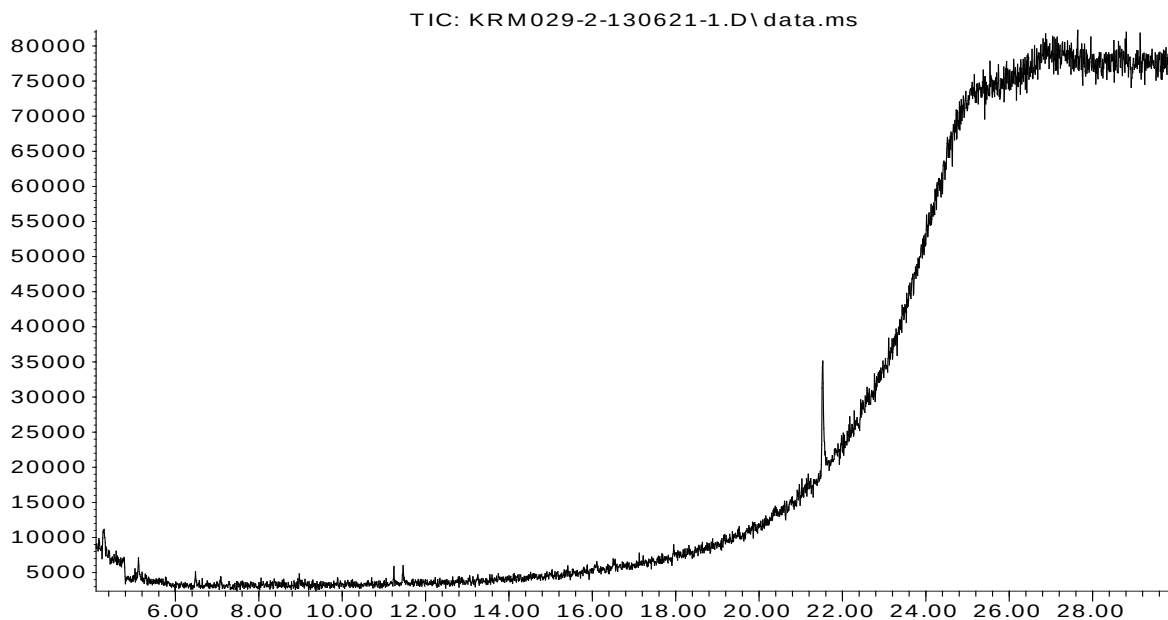
Abundance



SAMPLE KRM029-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Heptanoic Acid, Methyl Ester. C) Undecane D) Octanoic Acid, Methyl Ester. E) Nonanoic Acid, Methyl Ester. F) Decanoic Acid, Methyl Ester. G) Hexadecanoic Acid, Methyl Ester. H) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM029-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation
Plasticiser.

KRM 030

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, Locus 2173-2, Lab 16. Palatial context.
Chocolate on White.

Sherd Weight: 5.11714g $\pm$ 0.00001g

Sherd Thickness: 6.98mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00861g $\pm$ 0.00001g (99.31%)

Potassium Hydroxide Extracted Residue: 0.00006g $\pm$ 0.00001g (0.69%)

Total Extracted Residue: 0.00867g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.68mg/g

Potassium Hydroxide Extraction Yield: 0.01mg/g

Total Yield: 1.69mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

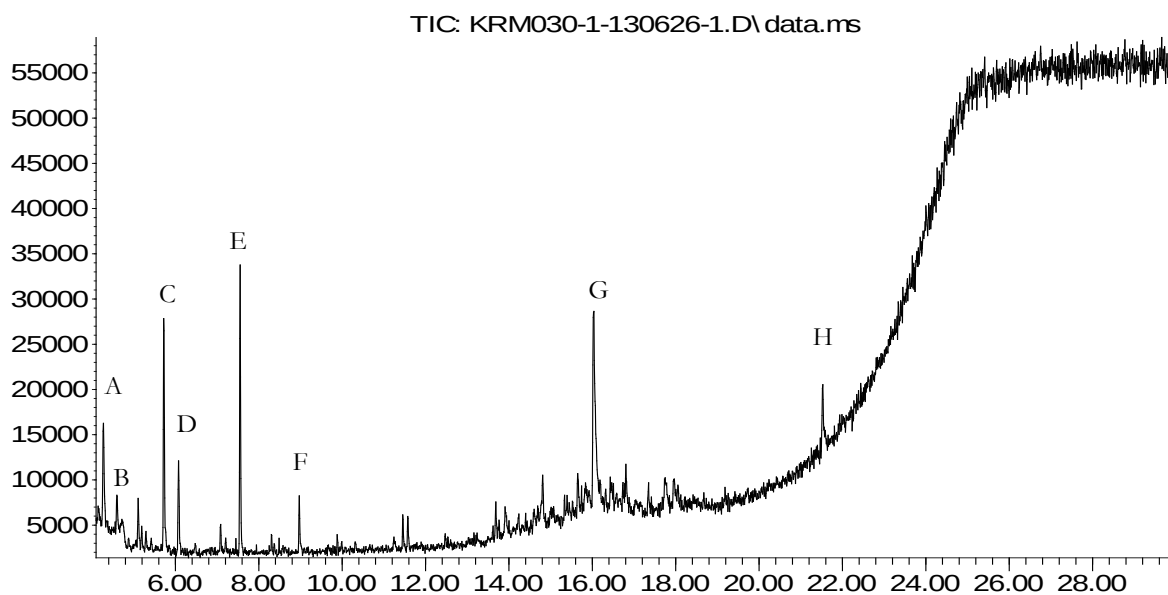
Secondary Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

Alkanoic Acids: C_{7:0}, C_{8:0}, C_{9:0}, C_{14:0}, C_{16:0}

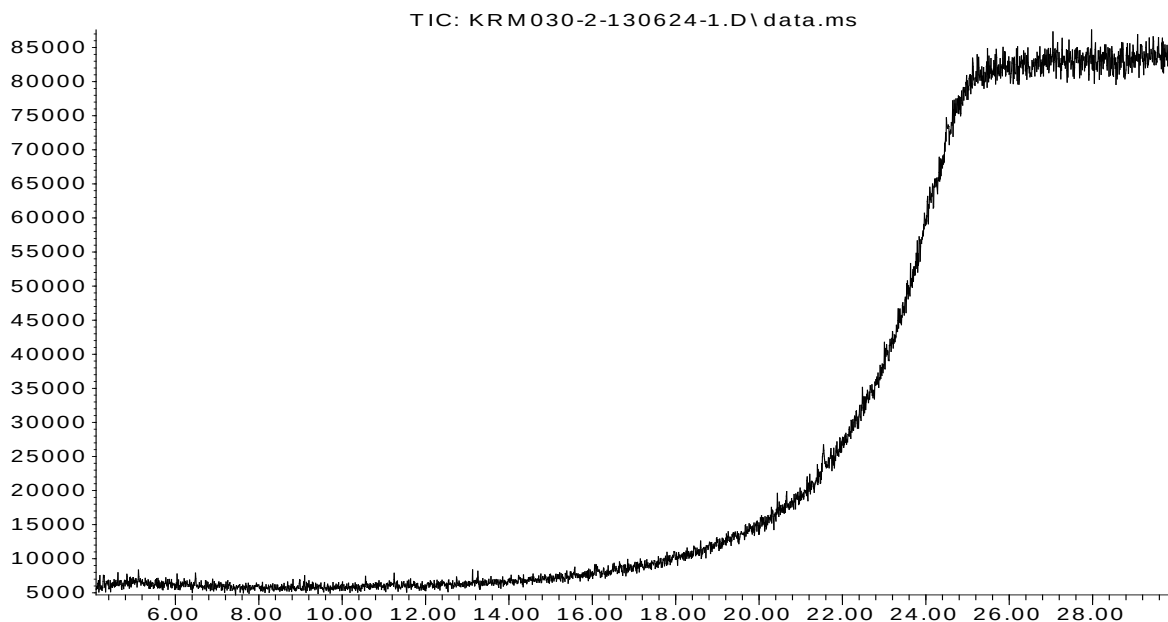
Abundance



SAMPLE KRM030-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Methyl Substituted Benzene. B) Heptanoic Acid, Methyl Ester. C) Undecane. D) Octanoic Acid, Methyl Ester. E) Nonanoic Acid, Methyl Ester. F) Tetradecanoic Acid, Methyl Ester. G) Hexadecanoic Acid, Methyl Ester. H) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM030-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

KRM 031

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2616-10, fine grid 6, lab 19. Occupational debris above a floor, palatial context. Rim sherd. Stored in plastic and paper post excavation.

Sherd Weight: 11.08077g $\pm$ 0.00003g
 Sherd Thickness: 14.14mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00585g $\pm$ 0.00001g	(66.10%)
Potassium Hydroxide Extracted Residue:	0.00300g $\pm$ 0.00002g	(33.90%)
Total Extracted Residue:	0.00885g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	0.53mg/g
Potassium Hydroxide Extraction Yield:	0.27mg/g
Total Yield:	0.80mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

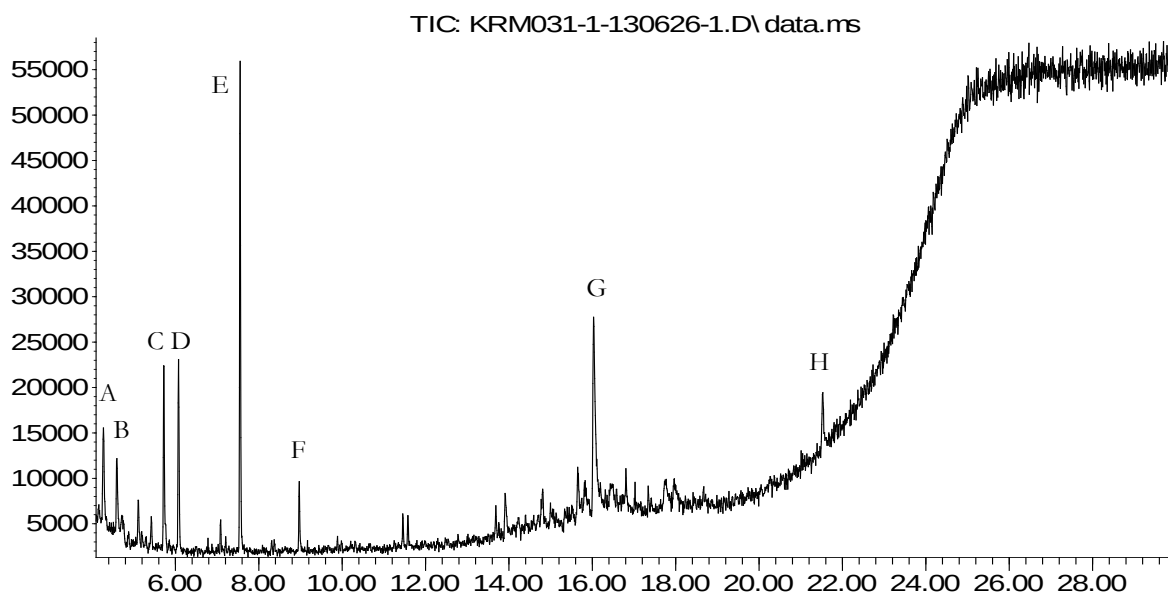
Alkanoic Acids: C_{7:0}, C_{8:0}, C_{9:0}, C_{10:0}, C_{16:0}

Cross-References:

Fine Grid: 031

Locus: 003, 005, 006, 008, 018, 022, 025, 028, 029, 046, 050

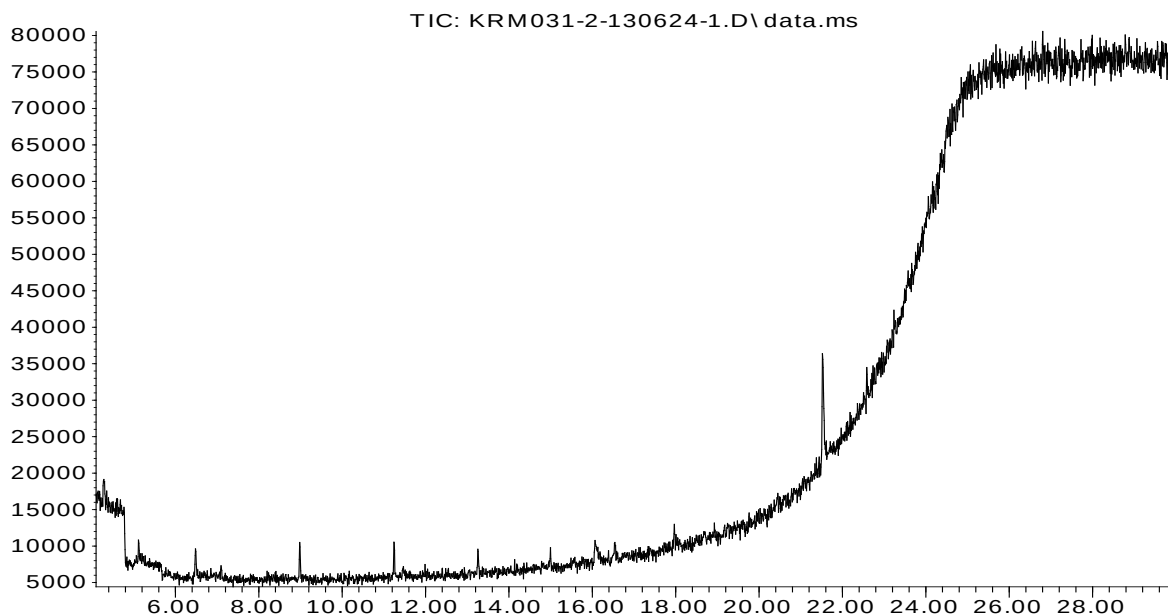
Abundance



SAMPLE KRM 031-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Heptanoic Acid, Methyl Ester. C) Undecane. D) Octanoic Acid, Methyl Ester. E) Nonanoic Acid, Methyl Ester. F) Decanoic Acid, Methyl Ester G) Hexadecanoic Acid, Methyl Ester. H) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM 031-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and plasticisers.

KRM 032

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 61. Drainage deposit, palatial context.

Sherd Weight: 6.79094g $\pm$ 0.00004g

Sherd Thickness: 9.89mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00946g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00946g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.39mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.39mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid

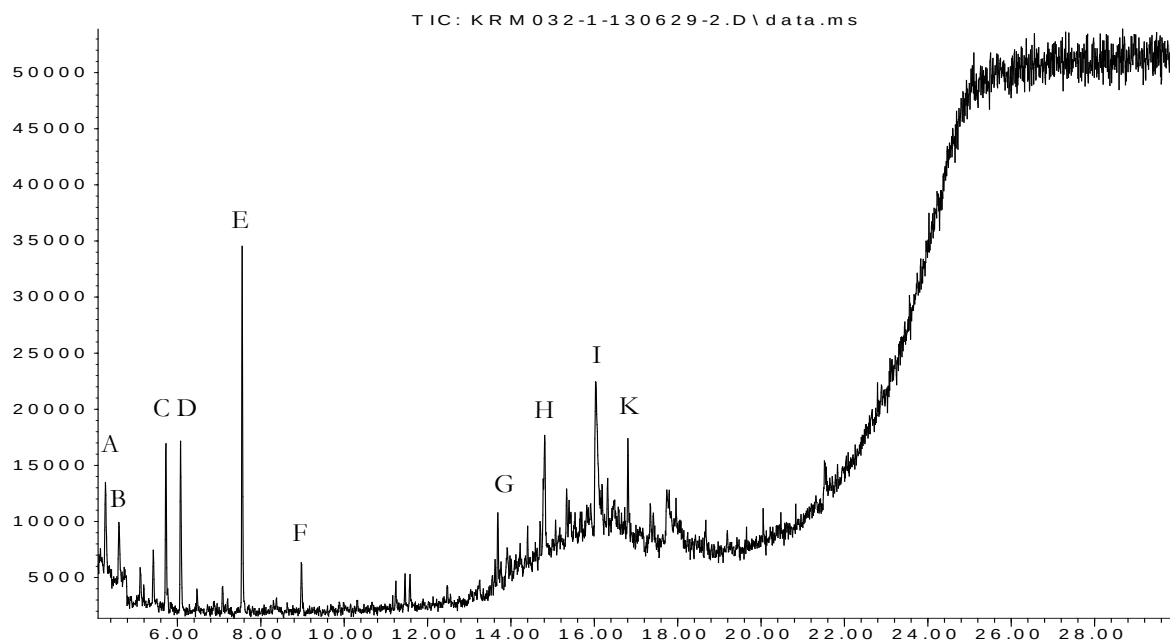
Other Peaks of Note:

Alkanoic Acids: C_{7:0}, C_{8:0}, C_{9:0}, C₁₆:

Cross-References:

Locus: 009, 017, 019, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

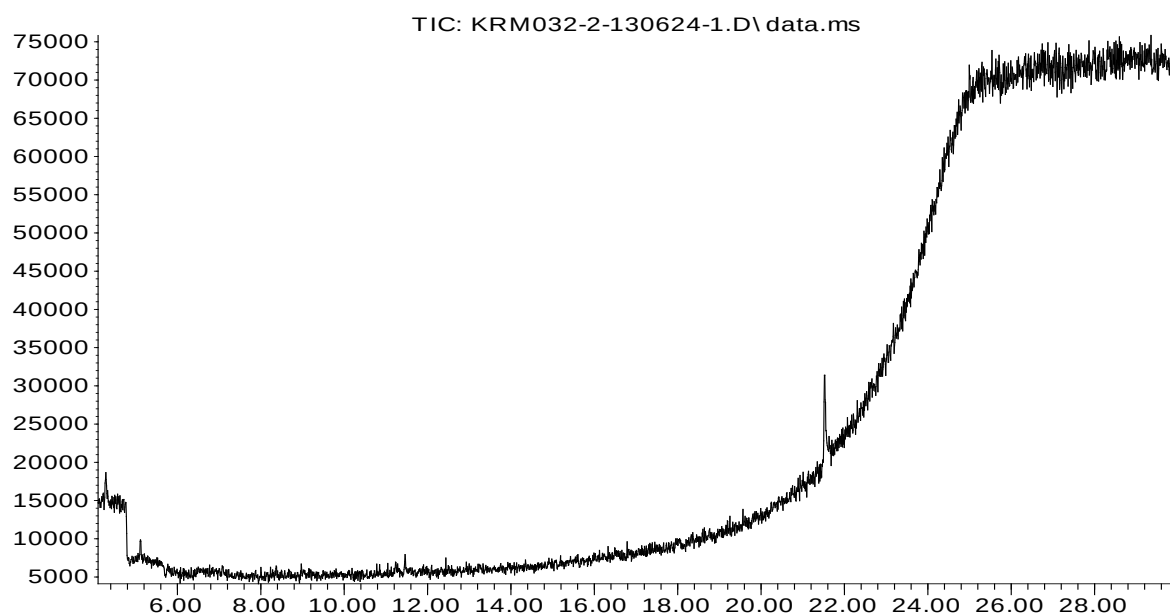
Abundance



SAMPLE KRM032-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Heptanoic Acid, Methyl Ester. C) Undecane. D) Octanoic Acid. E) Nonanoic Acid, Methyl Ester. F) A Cyclosiloxane. G, H, K) unspecified hydrocarbons. I) Hexadecanoic Acid, Methyl Ester.

Abundance



KRM 032-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation
Plasticiser.

KRM 033

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3061-2, lab 49. Base sherd.

Sherd Weight: 2.52146g $\pm$ 0.00001g
 Sherd Thickness: 6.73mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00521g $\pm$ 0.00001g
 Potassium Hydroxide Extracted Residue: insignificant
 Total Extracted Residue: 0.00521g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 2.07mg/g
 Potassium Hydroxide Extraction Yield: insignificant
 Total Yield: 2.07mg/g

Major Peak:

Undecane

Secondary Peak:

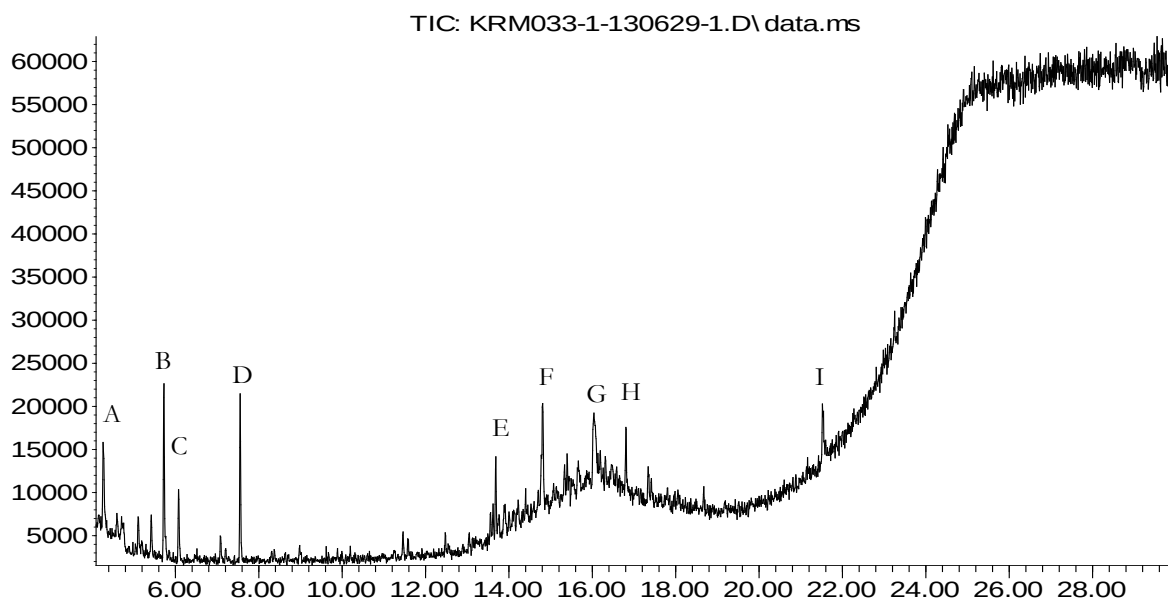
Nonanoic Acid

Other Peaks of Note:

Cross-References:

Locus: 035, 039, 061

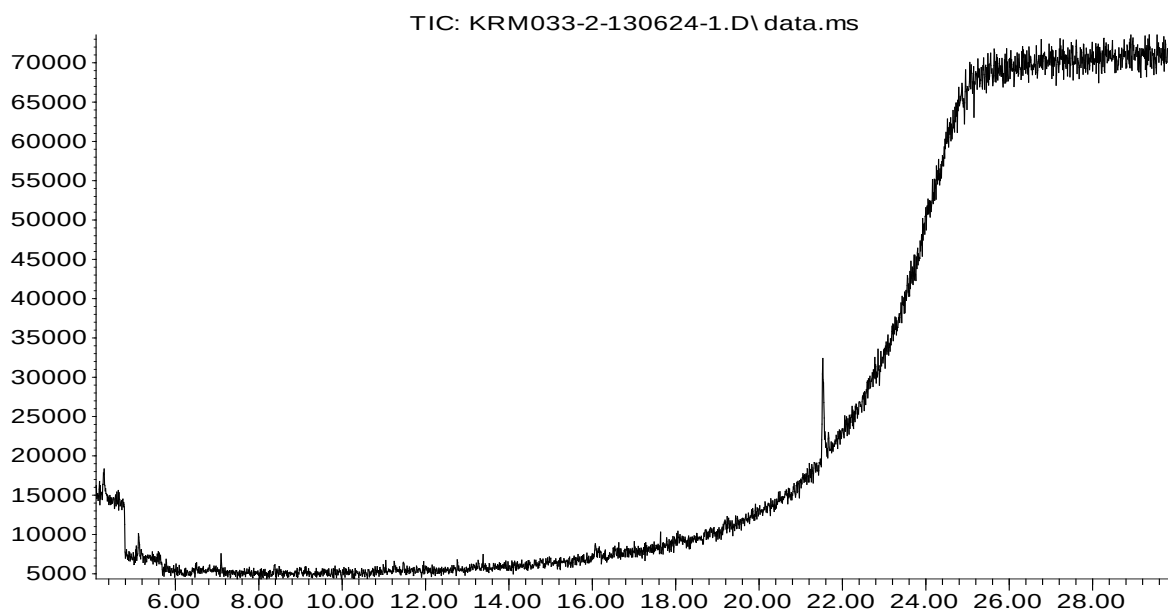
Abundance



SAMPLE KRM033-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Mesitylene. B) Undecane. C) Octanoic Acid, Methyl Ester. D) Nonanoic Acid, Methyl Ester. E-F, H) unspecified hydrocarbons. G) Hexadecanoic Acid, Methyl Ester. I) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM033-2: Potassium Hydroxide/Methanol and FAME Derivatisation

Phthalate Plasticiser.

KRM 034

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 62. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 6.00319g $\pm$ 0.00003g
 Sherd Thickness: 10.93mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00746g $\pm$ 0.00001g	(42.10%)
Potassium Hydroxide Extracted Residue:	0.01026g $\pm$ 0.00002g	(57.90%)
Total Extracted Residue:	0.01772g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	1.24mg/g
Potassium Hydroxide Extraction Yield:	1.74mg/g
Total Yield:	2.95mg/g

Major Peak:

Undecane

Secondary Peak:

Nonanoic Acid, Methyl Ester

Other Peaks of Note:

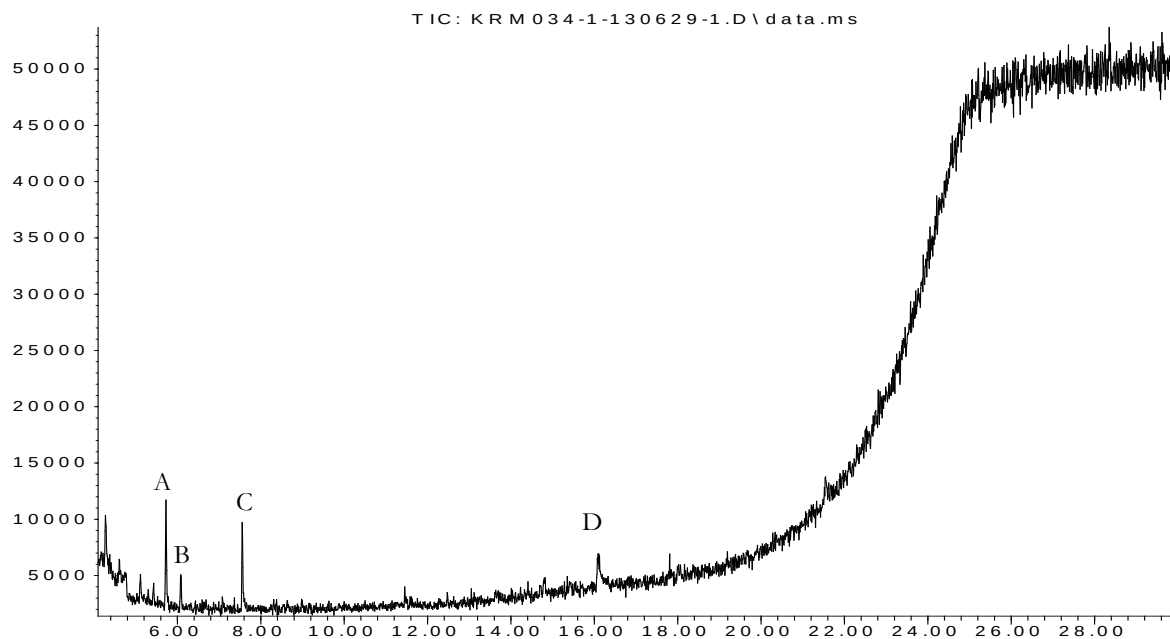
Hexadecanoic Acid, Methyl Ester

Phthalate Plasticiser

Cross-References:

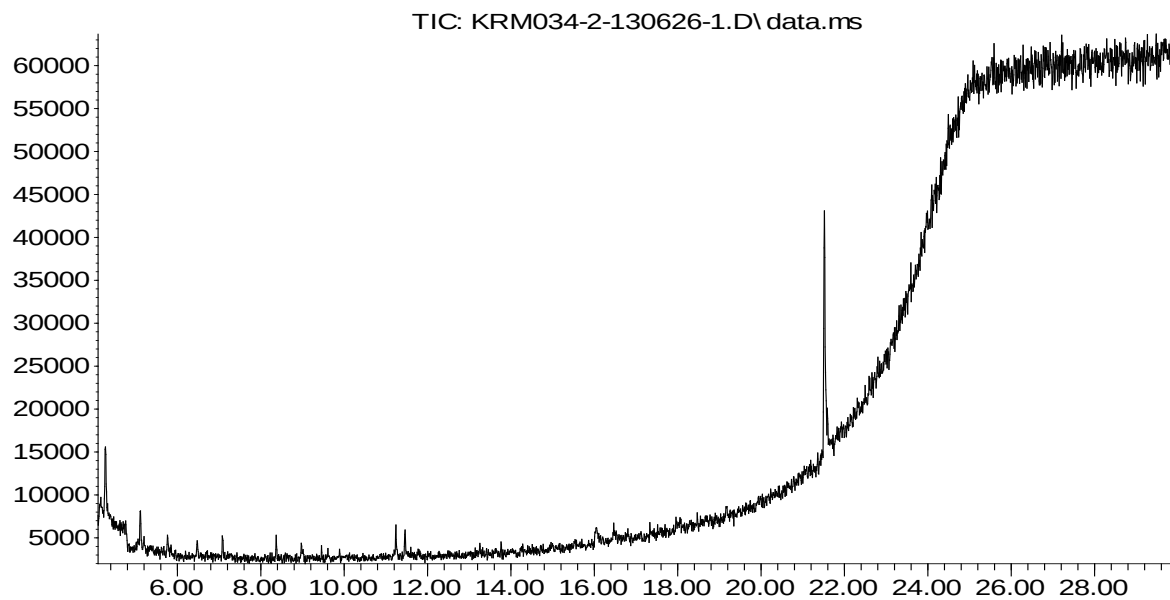
Locus: 009, 017, 019, 032, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

Abundance

**SAMPLE KRM034-1: Chloroform/Methanol Extraction and FAME Derivatisation**

A) Undecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester.

Abundance

**SAMPLE KRM034-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation**

Phthalate Plasticiser and siloxanes.

KRM 035

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3061-1, lab 37. Destruction on a floor. Body Sherd.

Sherd Weight: 6.56752g $\pm$ 0.00004g

Sherd Thickness: 12.97mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.01491g $\pm$ 0.00003g (94.37%)

Potassium Hydroxide Extracted Residue: 0.00089g $\pm$ 0.00001g (5.63%)

Total Extracted Residue: 0.01580g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 2.27mg/g

Potassium Hydroxide Extraction Yield: 0.14mg/g

Total Yield: 2.41mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

Dicarboxylic Acid: C₇

Alkanoic Acids: C_{7:0}, C_{8:0}, C_{9:0}, C_{10:0}, C_{12:0}, C_{16:0}

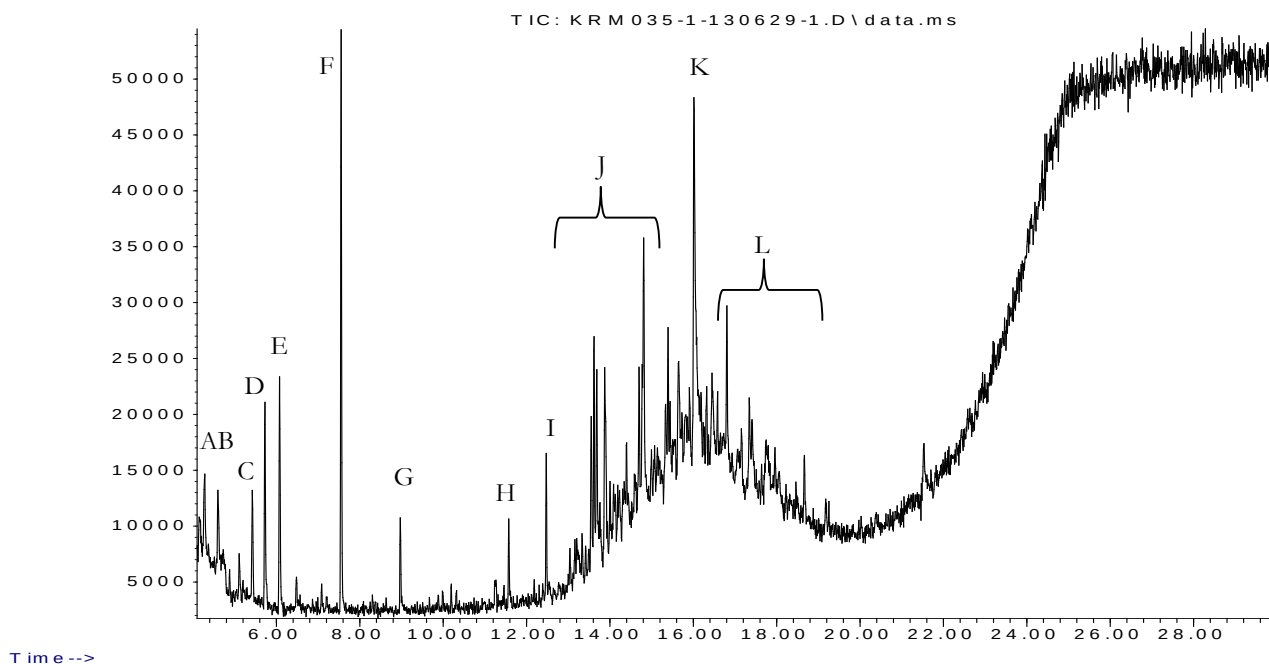
Mixture of hydrocarbons

Cross-References:

Pottery Bucket: 039

Locus: 033, 061

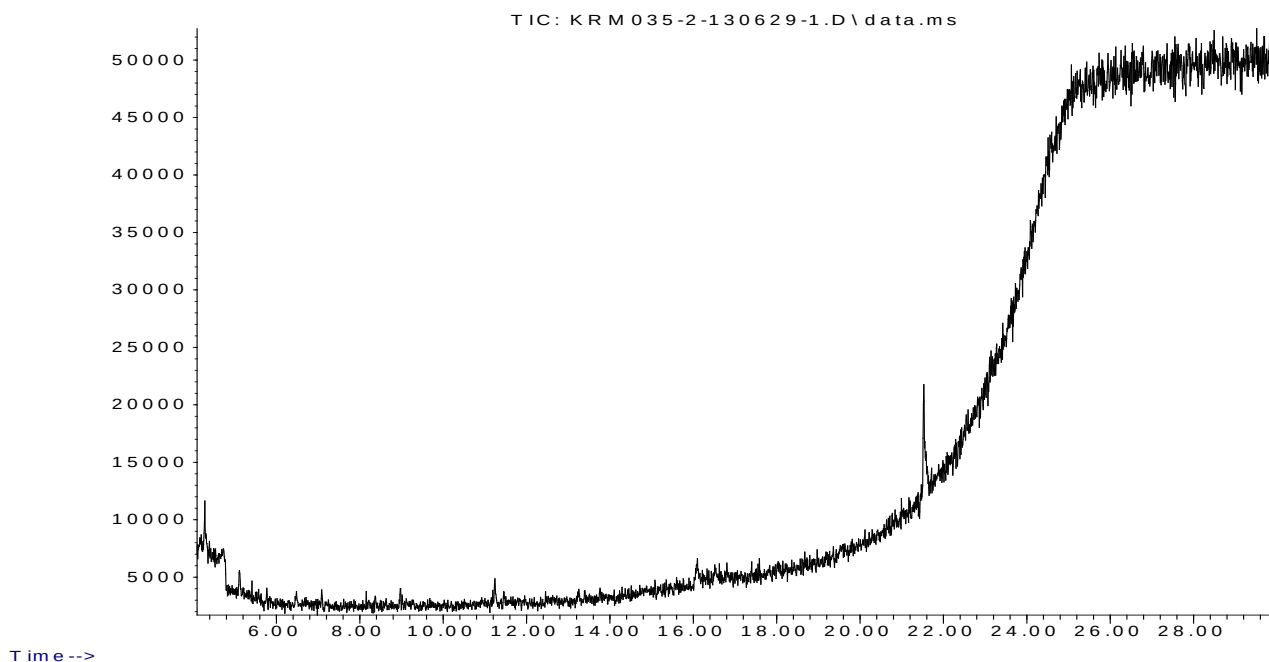
Abundance



SAMPLE KRM035-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) a Methyl-Substituted Benzene. B) Heptanoic Acid, Methyl Ester. C) Heptandioic Acid, Methyl Ester. D) Undecane. E) Octanoic Acid, Methyl Ester. F) Nonanoic Acid, Methyl Ester. G) Decanoic Acid, Methyl Ester. H) Dodecanoic Acid, Methyl Ester. I) Hexacosane. J, L) A mixture of substituted and un-substituted hydrocarbons. K) Hexadecanoic Acid, Methyl Ester.

Abundance



KRM 035-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation
Phthalate Plasticiser.

KRM 036

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, Locus 2197, lab 58. Drainage deposit, palatial context. Rim sherd.

Sherd Weight: 4.57848g $\pm$ 0.00002g

Sherd Thickness: 8.73mm $\pm$ 0.01

Chloroform Methanol Extracted Residue: 0.01206g $\pm$ 0.00003g (98.45%)

Potassium Hydroxide Extracted Residue: 0.00019g $\pm$ 0.00002g (1.55%)

Total Extracted Residue: 0.01225g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 2.63mg/g

Potassium Hydroxide Extraction Yield: 0.04mg/g

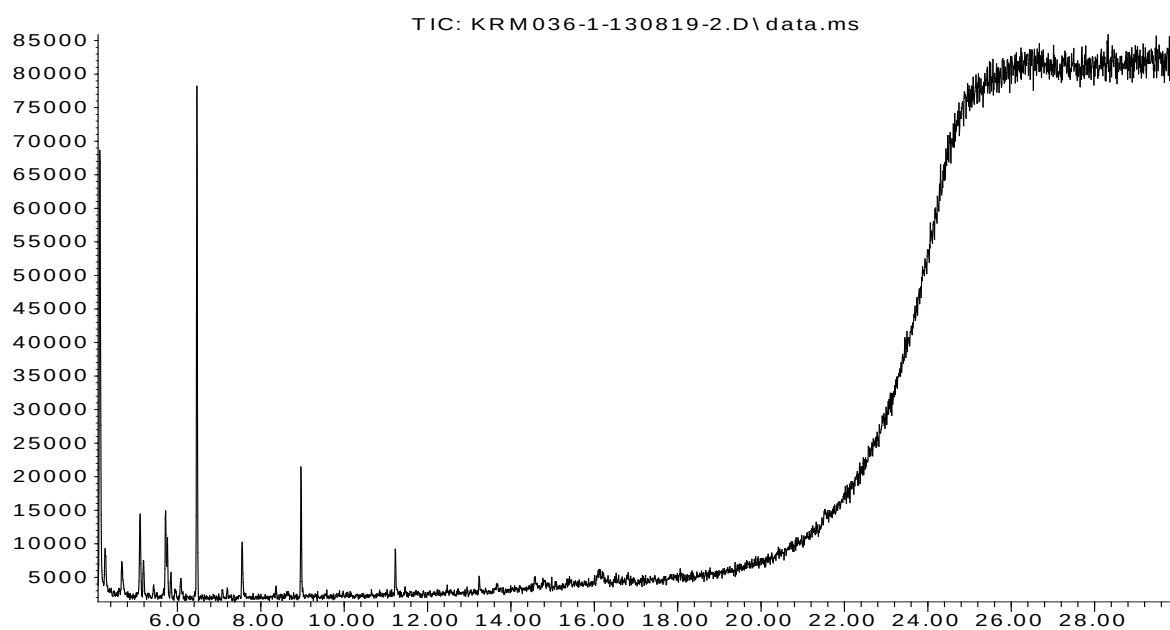
Total Yield: 2.68mg/g

All siloxanes and phthalate plasticiser contamination.

Cross-References:

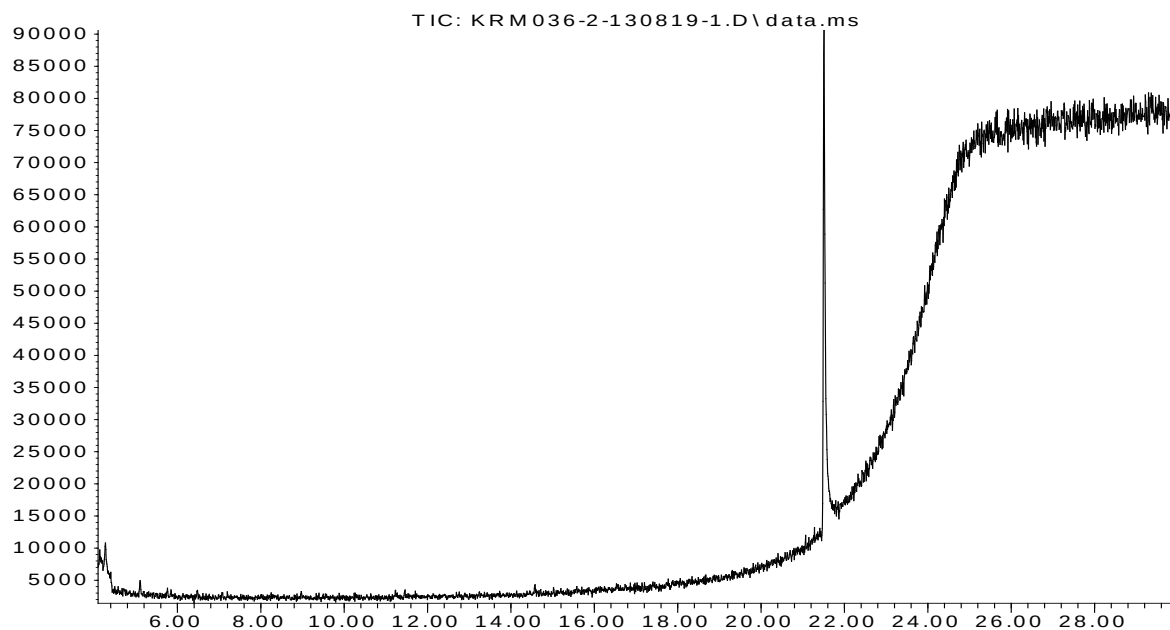
Locus: 009, 017, 019, 032, 034, 037, 038, 042, 043, 049, 051, 052, 055, 056, 058

Abundance



SAMPLE KRM036-1: Chloroform/Methanol Extraction and FAME Derivatisation
All siloxanes.

Abundance



SAMPLE KRM036-3: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation
Bis(2-ethylhexyl) Phthalate.

KRM 037

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 56. Drainage deposit, palatial context.

Sherd Weight: 7.19211g $\pm$ 0.00002g
 Sherd Thickness: 11.51mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.03831g $\pm$ 0.00007g	(99.69%)
Potassium Hydroxide Extracted Residue:	0.00012g $\pm$ 0.00003g	(0.31%)
Total Extracted Residue:	0.03843g $\pm$ 0.00008g	

Chloroform Methanol Extraction Yield:	5.33mg/g
Potassium Hydroxide Extraction Yield:	0.02mg/g
Total Yield:	5.34mg/g

Major Peak:

Tetradecane

Bis(2-ethylhexyl)Phthalate

Secondary Peak:

Nonanoic Acid, Methyl Ester

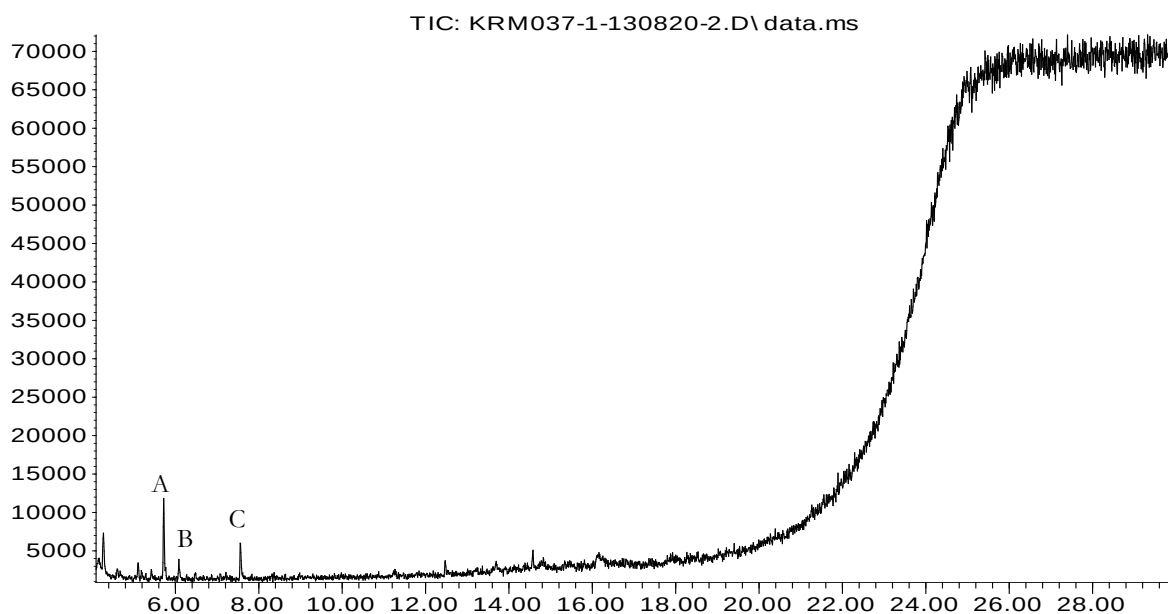
Other Peaks of Note:

Octanoic Acid, Methyl Ester

Cross-References:

Locus: 009, 017, 019, 032, 034, 036, 038, 042, 043, 049, 051, 052, 055, 056, 058

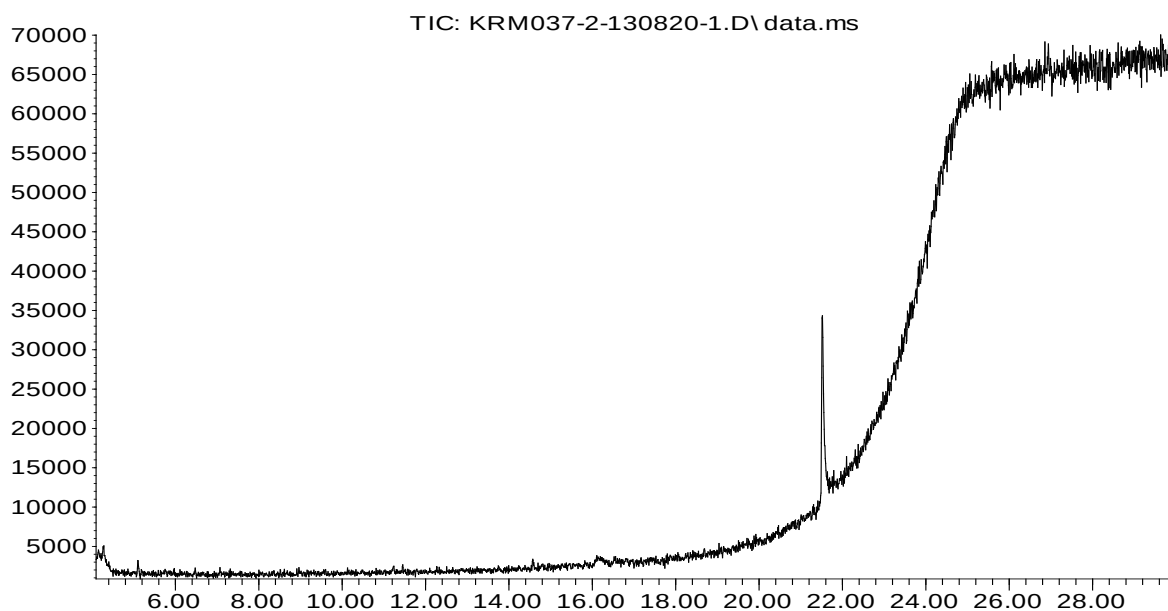
Abundance



SAMPLE KRM037-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Tetradecane. B) Octanoic Acid, Methyl Ester. C) Nonanoic Acid, Methyl Ester.

Abundance



SAMPLE KRM037-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

Bis(2-ethylhexyl) Phthalate

KRM 038

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 52. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 12.29261g $\pm$ 0.00001g

Sherd Thickness: 11.02mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.05479g $\pm$ 0.00001g (99.53%)

Potassium Hydroxide Extracted Residue: 0.00026g $\pm$ 0.00001g (0.47%)

Total Extracted Residue: 0.05505g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 4.46mg/g

Potassium Hydroxide Extraction Yield: 0.02mg/g

Total Yield: 4.48mg/g

Major Peak:

Cyclosiloxanes and Phthalate Plasticisers

Secondary Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

Other Peaks of Note:

Alkanoic Acids: C_{8:0}, C_{9:0}, C_{16:0}, C_{18:0}, C_{20:0}, C_{24:0}

Alkanes: C₉, C₁₁ and others

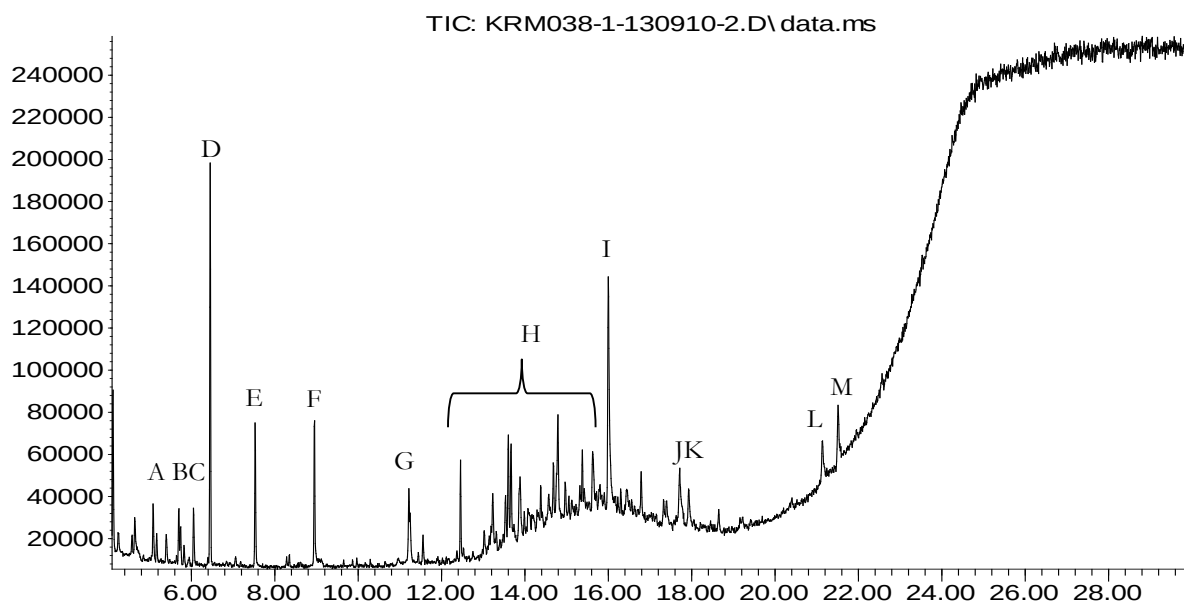
Octadecenoic Acid, Methyl Ester

Docosenoic Acid, Methyl Ester (Euric Acid)

Cross-References:

Locus: 009, 017, 019, 032, 034, 036, 037, 042, 043, 049, 051, 052, 055, 056, 058

Abundance

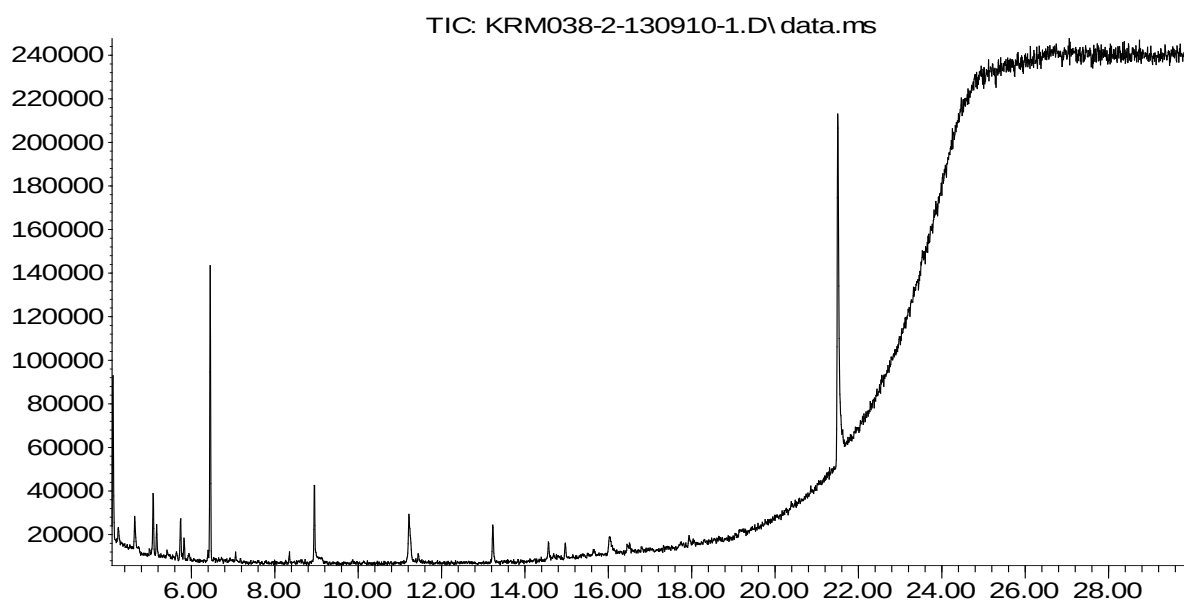


SAMPLE KRM038-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Nonadecane. B) Undecane .C) Octanoic Acid, Methyl Ester. E) Nonanoic Acid, Methyl Ester. D, F, G) cyclosiloxanes. H) a mixture of alkanes. I) Hexadecanoic Acid, Methyl Ester. J) Octadecenoic Acid, Methyl Ester. K) Octadecanoic Acid, Methyl Ester. L) Docosenoic Acid (Euric Acid). M) Bis(2-ethylhexyl) Phthalate.

SAMPLE KRM038-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

Abundance



All siloxanes and phthalate plasticisers.

KRM 039

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3061-1, lab 36. Destruction on a floor. Body sherd.

Sherd Weight: 3.99201g $\pm$ 0.00002g

Sherd Thickness: 13.31mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.02019g $\pm$ 0.00006g (97.16%)

Potassium Hydroxide Extracted Residue: 0.00059g $\pm$ 0.00001g (2.84%)

Total Extracted Residue: 0.02078g $\pm$ 0.00006g

Chloroform Methanol Extraction Yield: 5.06mg/g

Potassium Hydroxide Extraction Yield: 0.15mg/g

Total Yield: 5.21mg/g

Major Peak:

Cyclosiloxane

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{9:0}, C_{16:0}, C_{18:0}

Alkanes: C_{11:0}, C_{16:0}, C_{17:0}, C_{18:0}

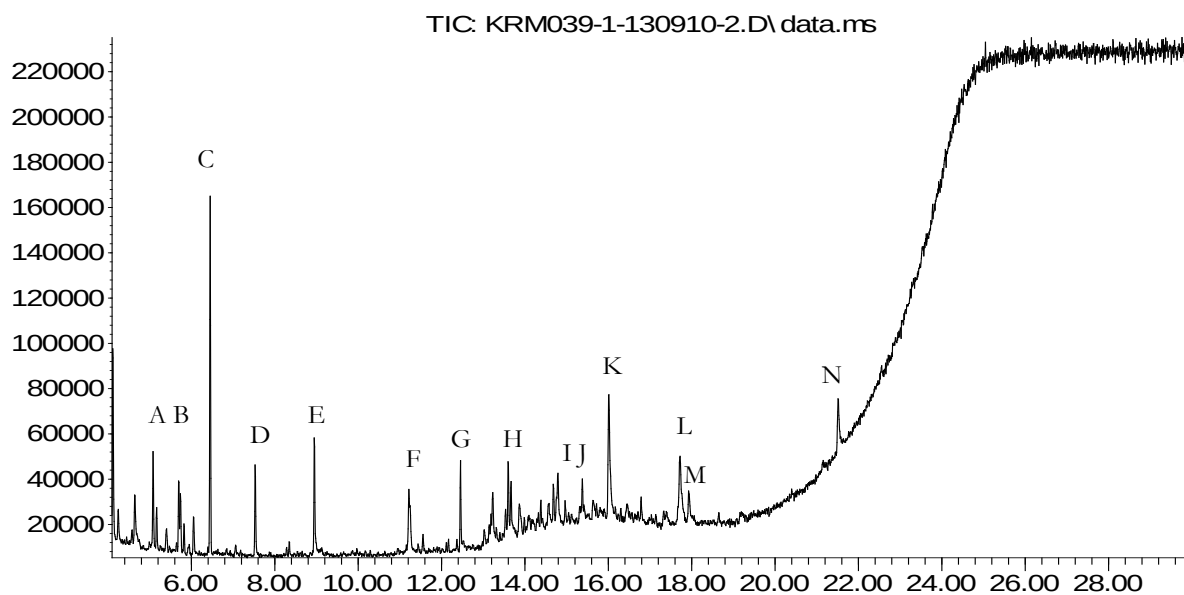
Octadecenoic Acid, Methyl Ester

Cross-References:

Pottery Bucket: 035

Locus: 033, 061

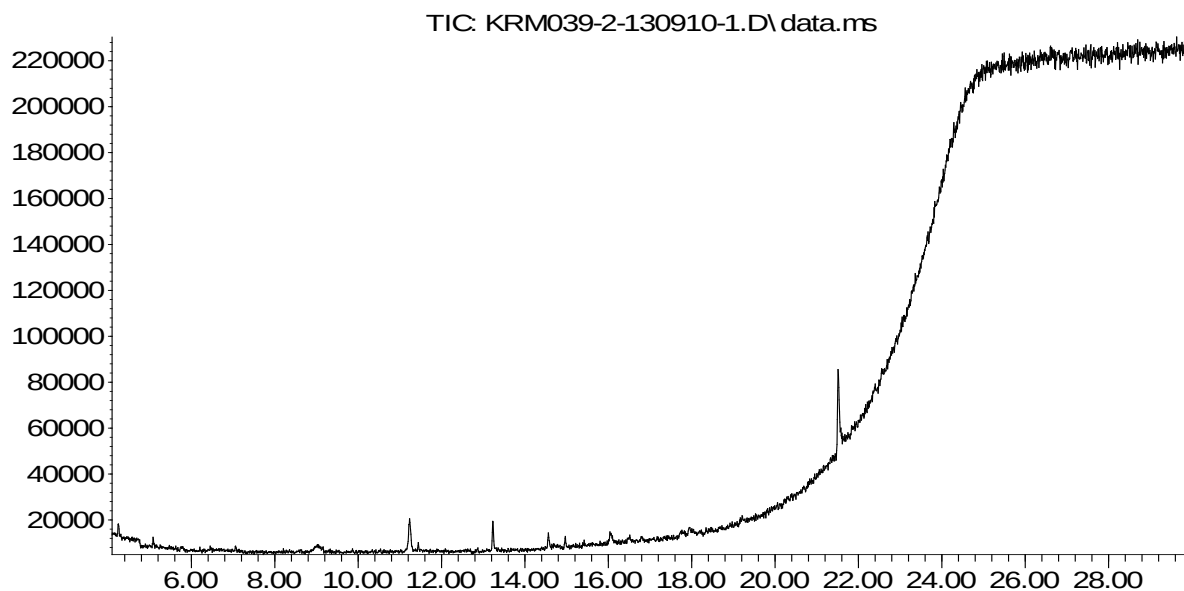
Abundance



SAMPLE KRM039-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Unidentified alkane. B) Undecane. C) a Cyclosiloxane (decamethyl cyclopentasiloxane). D) Nonanoic Acid. E, F) a Cyclosiloxane. G) Hexadecane. H) Heptadecane. I) Octadecane. J) Octadecene. K) Hexadecanoic Acid, Methyl Ester. L) Octadecenoic Acid, Methyl Ester. M) Octadecanoic Acid, Methyl Ester. N) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM039-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and phthalate plasticisers.

KRM 040

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3060-11, fine grid 19, lab 10. Rim sherd.

Sherd Weight: 4.86526g $\pm$ 0.00003g

Sherd Thickness: 8.83mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00847g $\pm$ 0.00002g (76.65%)

Potassium Hydroxide Extracted Residue: 0.00258g $\pm$ 0.00003g (23.35%)

Total Extracted Residue: 0.01105g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 1.74mg/g

Potassium Hydroxide Extraction Yield: 0.53mg/g

Total Yield: 2.27mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Cyclosiloxanes and Plasticisers

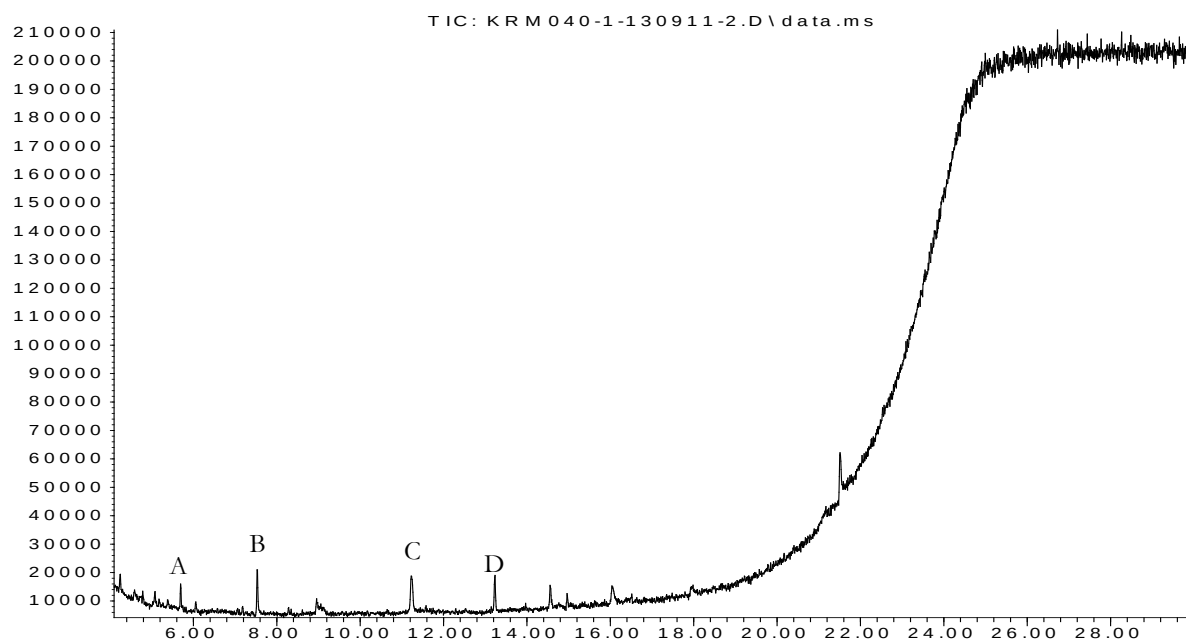
Other Peaks of Note:

Cross-References:

Deposit: 004, 041, 045

Locus: 021, 048

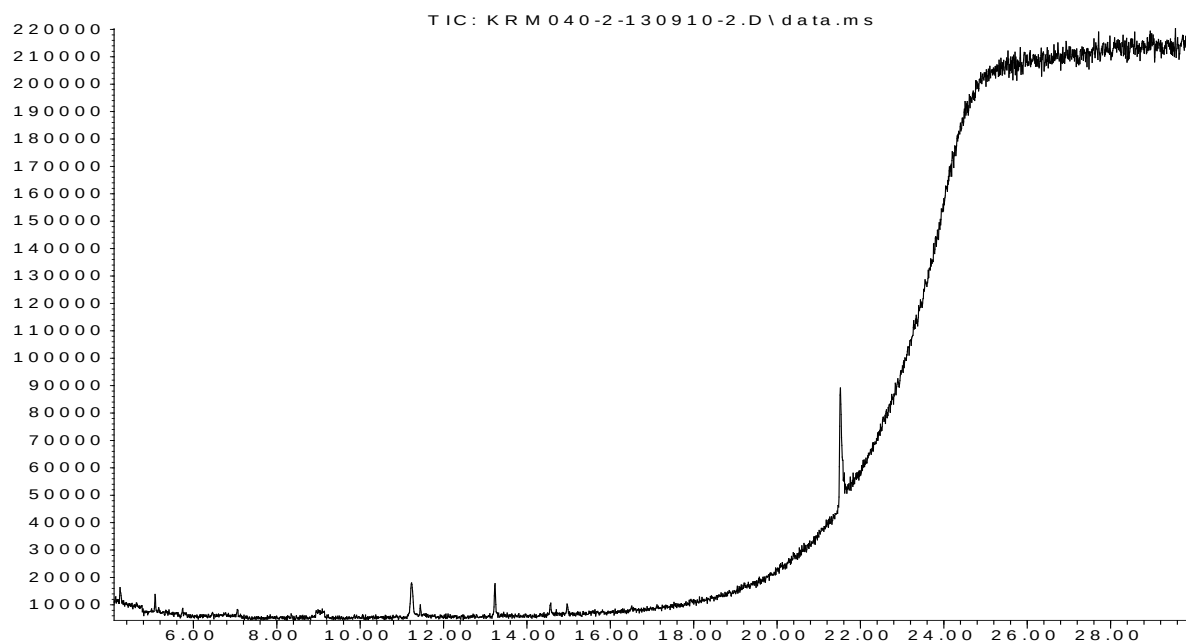
Abundance



SAMPLE KRM040-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Nonanoic Acid, Methyl Ester. C,D) Cyclosiloxanes

Abundance



SAMPLE KRM040-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All Siloxanes and Plasticisers.

KRM 041

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3060-11, fine grid 19, lab 12. Rim sherd.

Sherd Weight: 4.17315g $\pm$ 0.00001g

Sherd Thickness: 5.81mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00847g $\pm$ 0.00005g (99.18%)

Potassium Hydroxide Extracted Residue: 0.00007g $\pm$ 0.00003g (0.82%)

Total Extracted Residue: 0.00854g $\pm$ 0.00006g

Chloroform Methanol Extraction Yield: 2.03mg/g

Potassium Hydroxide Extraction Yield: 0.02mg/g

Total Yield: 2.04mg/g

Major Peaks:

Cyclosiloxanes and plasticisers

Secondary Peaks:

Nonanoic Acid, Methyl Ester.

Hexadecanoic Acid, Methyl Ester

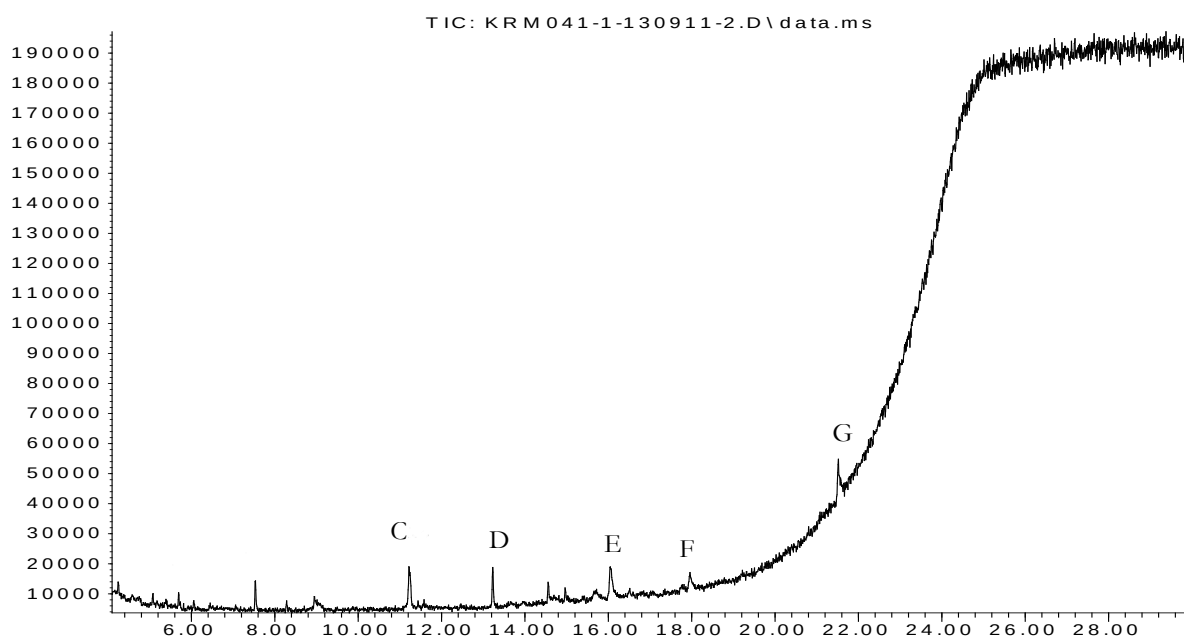
Octadecanoic Acid, Methyl Ester

Cross-References:

Deposit: 004, 040, 045

Locus: 021, 048

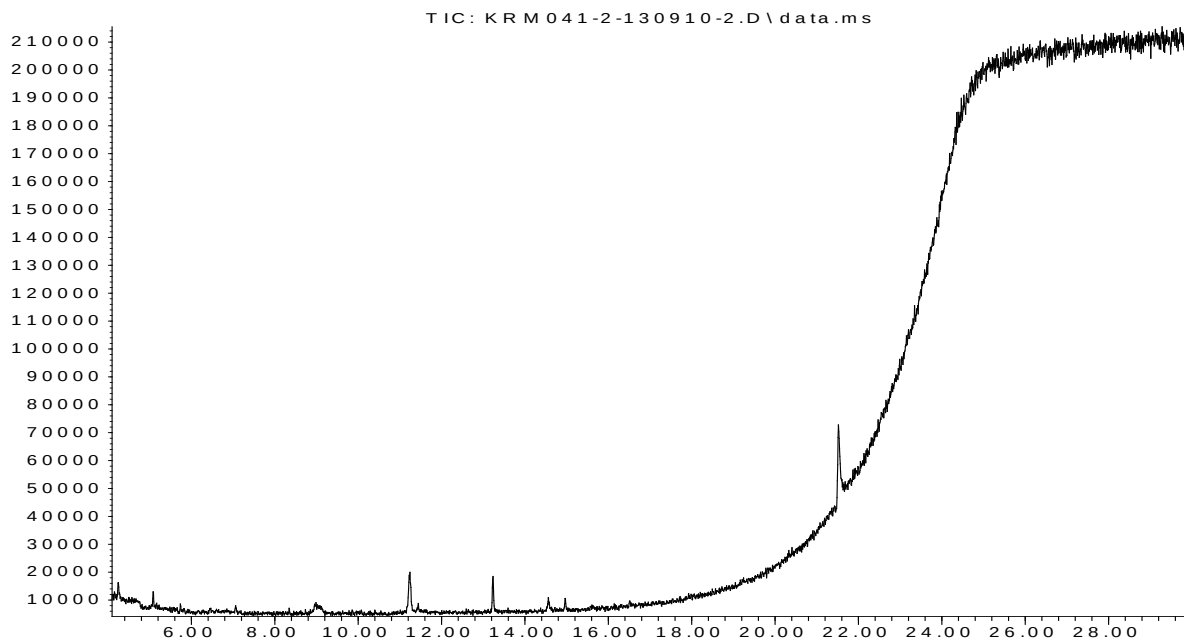
Abundance



SAMPLE KRM041-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. C) Nonanoic Acid, Methyl Ester. C, D) Cyclosiloxanes. E) Hexadecanoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester. G) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM41-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and phthalate plasticisers.

KRM 042

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 53. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 6.43243g $\pm$ 0.00002g

Sherd Thickness: 9.94mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00710g $\pm$ 0.00002g (99.16%)

Potassium Hydroxide Extracted Residue: 0.00006g $\pm$ 0.00002g (0.84%)

Total Extracted Residue: 0.00716g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.10mg/g

Potassium Hydroxide Extraction Yield: 0.01mg/g

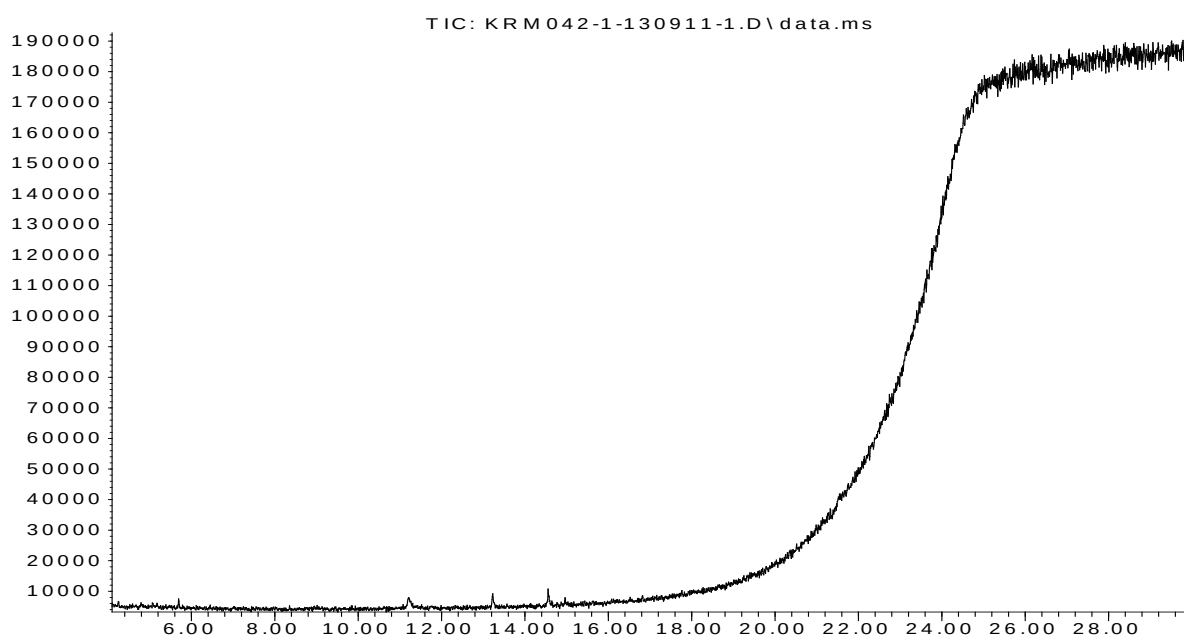
Total Yield: 1.11mg/g

All siloxanes.

Cross-References:

Locus: 009, 017, 019, 032, 034, 036, 037, 038, 043, 049, 051, 052, 055, 056, 058

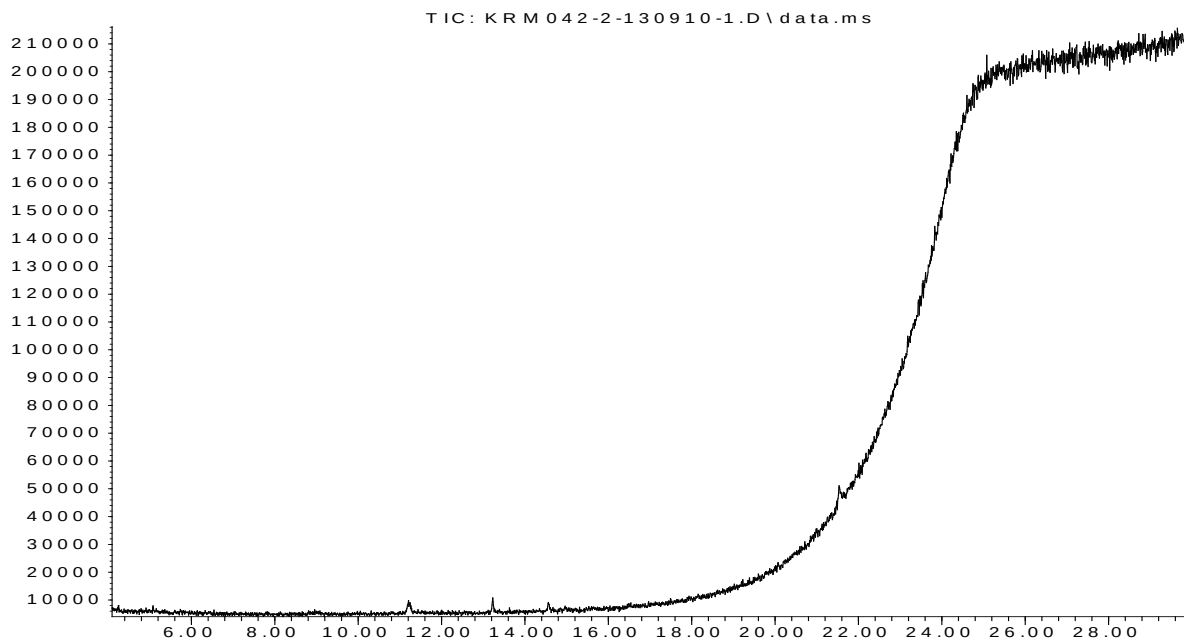
Abundance



Time-->

SAMPLE KRM042-1: Chloroform/Methanol and FAME Derivatisation
All siloxanes.

Abundance



Time-->

SAMPLE KRM42-2: Potassium Hydroxide/Methanol and FAME Derivatisation
All siloxanes.

KRM 043

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 54. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 3.26929g $\pm$ 0.00002g

Sherd Thickness: 6.27mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.000889g $\pm$ 0.00005g (99.00%)

Potassium Hydroxide Extracted Residue: 0.000009g $\pm$ 0.00001g (1.00%)

Total Extracted Residue: 0.000898g $\pm$ 0.00005g

Chloroform Methanol Extraction Yield: 2.72mg/g

Potassium Hydroxide Extraction Yield: 0.03mg/g

Total Yield: 2.75mg/g

Major Peaks:

Siloxanes and plasticisers

Secondary Peak:

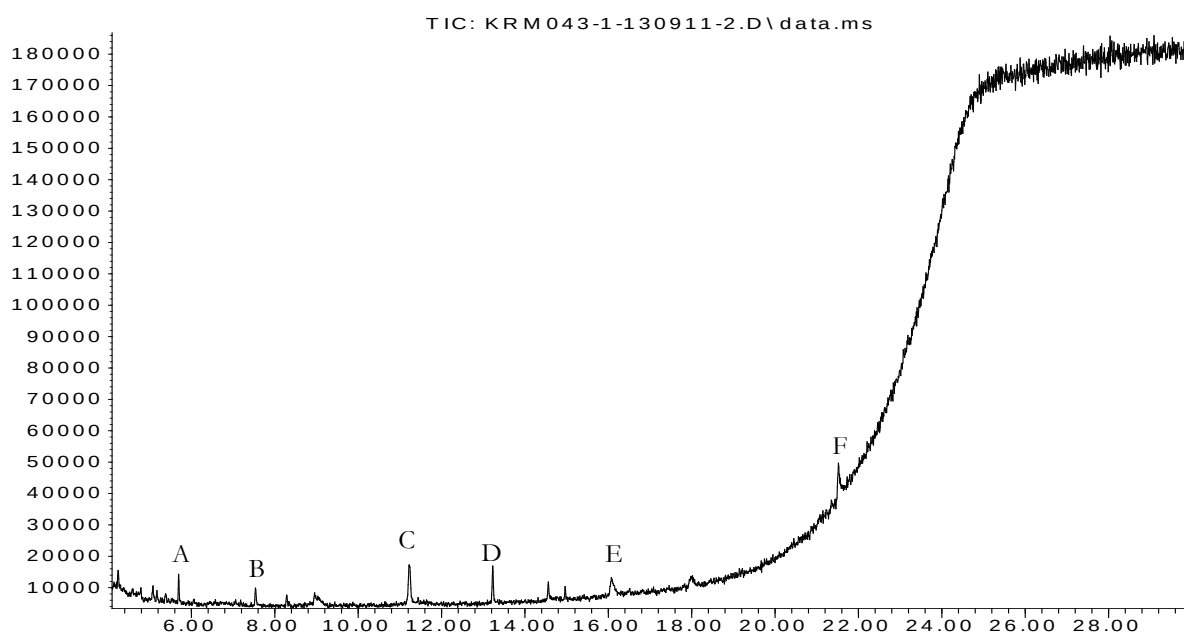
Nonanoic Acid, Methyl Ester

Hexadecanoic Acid, Methyl Ester

Cross-References:

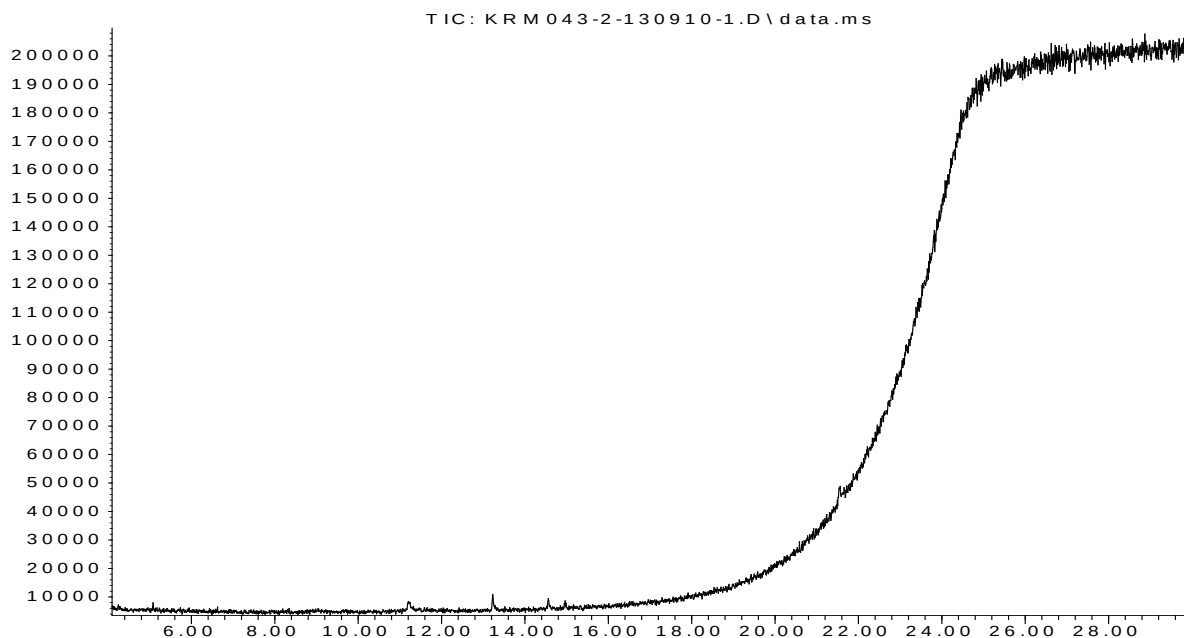
Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 049, 051, 052, 055, 056, 058

Abundance

**SAMPLE KRM043-1: Chloroform/Methanol Extraction and FAME Derivatisation**

A) Undecane. B) Nonanoic Acid, Methyl Ester. C) a cyclosiloxanes. D)? E) Hexadecanoic Acid, Methyl Ester.
F) Bis(2-ethylhexyl) Phthalate.

Abundance

**SAMPLE KRM043-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation**

Siloxanes.

KRM 044

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3033-6, lab 8. Body sherd.

Sherd Weight: 13.67025g $\pm$ 0.00001g

Sherd Thickness: 13.53mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.01044g $\pm$ 0.00001g (97.48%)

Potassium Hydroxide Extracted Residue: 0.00027g $\pm$ 0.00001g (2.25%)

Total Extracted Residue: 0.01071g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.76mg/g

Potassium Hydroxide Extraction Yield: 0.02mg/g

Total Yield: 0.78mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Cyclosiloxanes

Other Peaks of Note:

Undecane

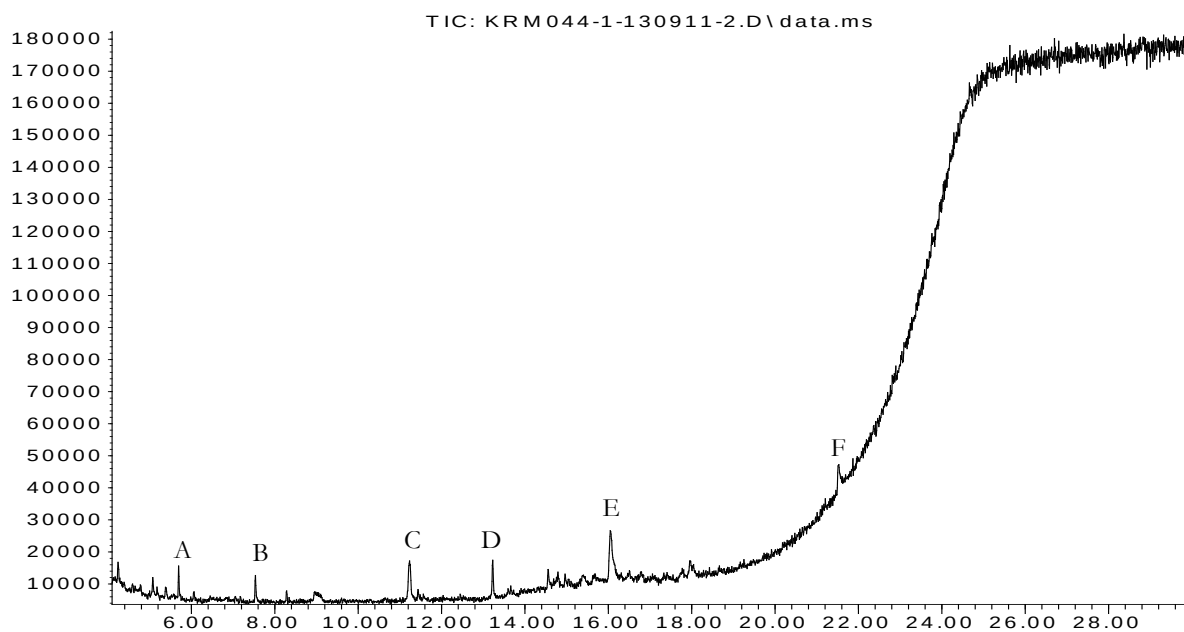
Nonanoic Acid

Bis(2-ethylhexyl) Phthalate

Cross Reference:

Locus: 007

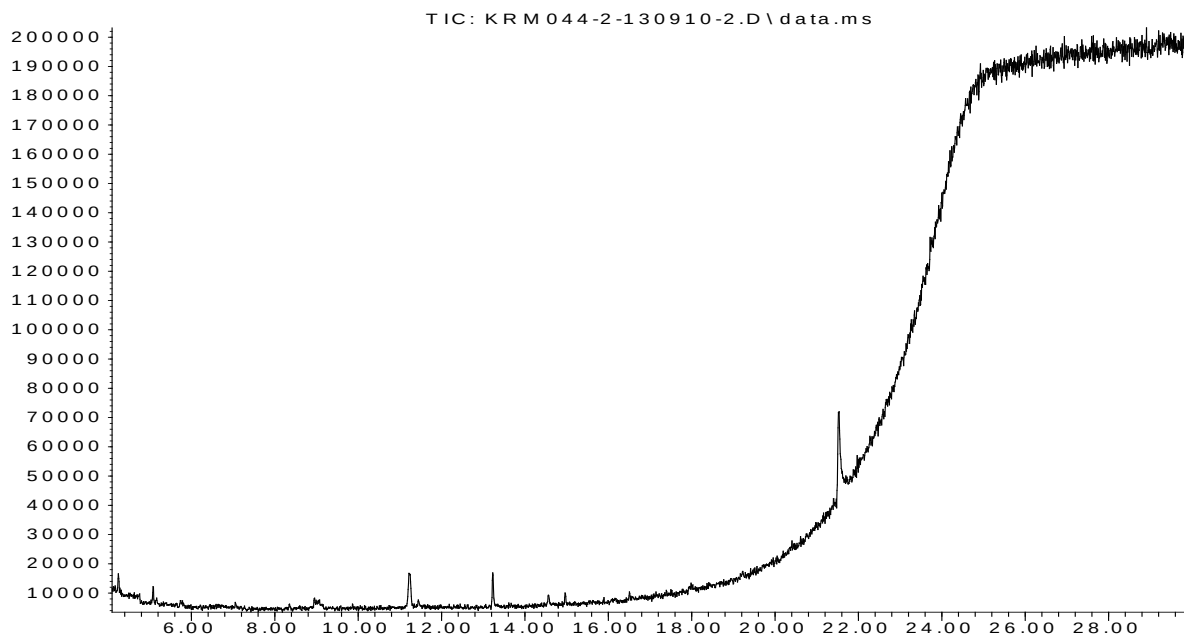
Abundance



SAMPLE KRM044-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Nonanoic Acid, Methyl Ester. C,D) Cyclosiloxanes. E) Hexadecanoic Acid, Methyl Ester. F) Bis(2-ethylhexyl) Phthalate.

Abundance



SAMPLE KRM044-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and phthalate plasticiser.

KRM 045

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3060-11, fine grid 19, lab 13. Rim sherd.

Sherd Weight: 2.55724g $\pm$ 0.00002g

Sherd Thickness: 8.77mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00570g $\pm$ 0.00004g (98.79%)

Potassium Hydroxide Extracted Residue: 0.00007g $\pm$ 0.00002g (1.21%)

Total Extracted Residue: 0.00577g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 2.23mg/g

Potassium Hydroxide Extraction Yield: 0.03mg/g

Total Yield: 2.26mg/g

Major Peak:

Cyclosiloxanes

Secondary Peak:

Undecane

Other Peaks of Note:

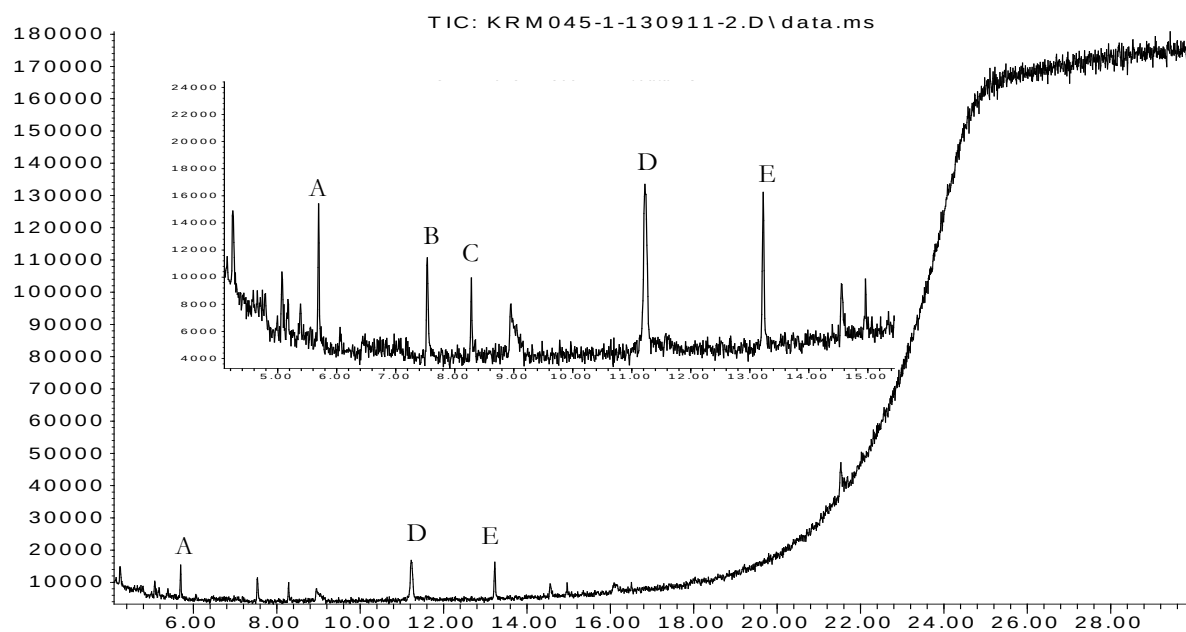
Nonanoic Acid, Methyl Ester.

Cross-References:

Deposit: 004, 040, 041

Locus: 021, 048

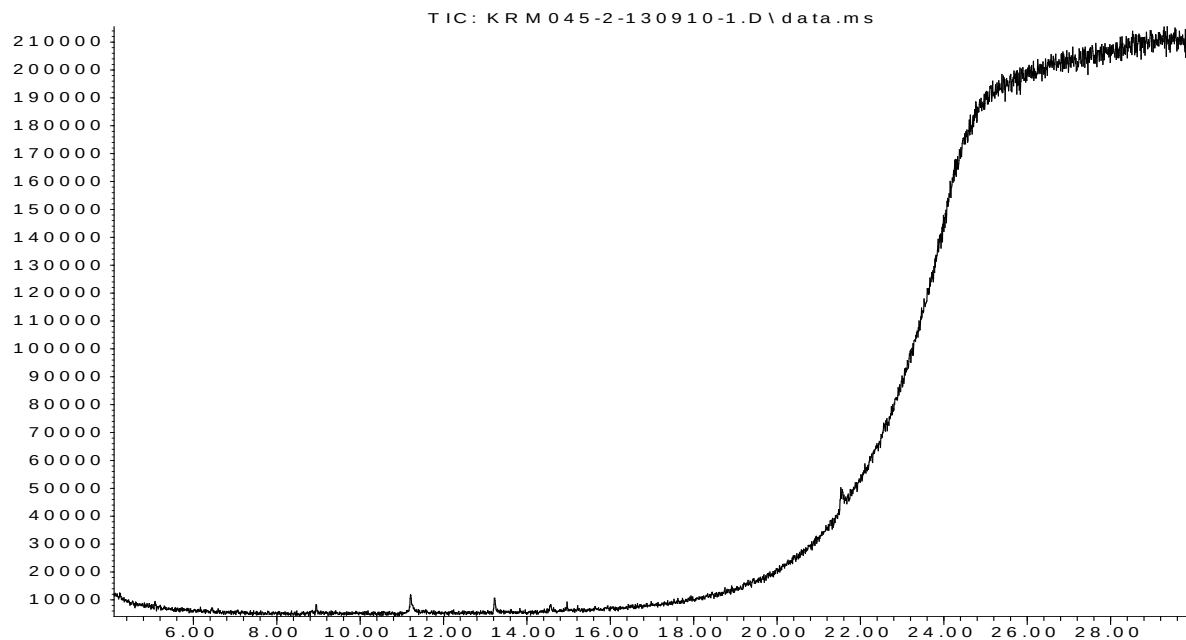
Abundance



SAMPLE KRM045-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) Undecane. B) Nonanoic Acid, Methyl Ester. C, D, E) Cyclosiloxanes

Abundance



Time-->

SAMPLE KRM045-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation

All siloxanes and plasticisers.

KRM 046

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-9, fine grid 2. Palatial context. Body sherd.

Sherd Weight: 2.91959g $\pm$ 0.00001g

Sherd Thickness: 8.10mm $\pm$ 0.01

Chloroform Methanol Extracted Residue: 0.00440g $\pm$ 0.00002g (78.99%)

Potassium Hydroxide Extracted Residue: 0.00117g $\pm$ 0.00003g (21.01%)

Total Extracted Residue: 0.00557g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 1.15mg/g

Potassium Hydroxide Extraction Yield: 0.40mg/g

Total Yield: 1.91mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peaks:

Cyclosiloxanes

Other Peaks of Note:

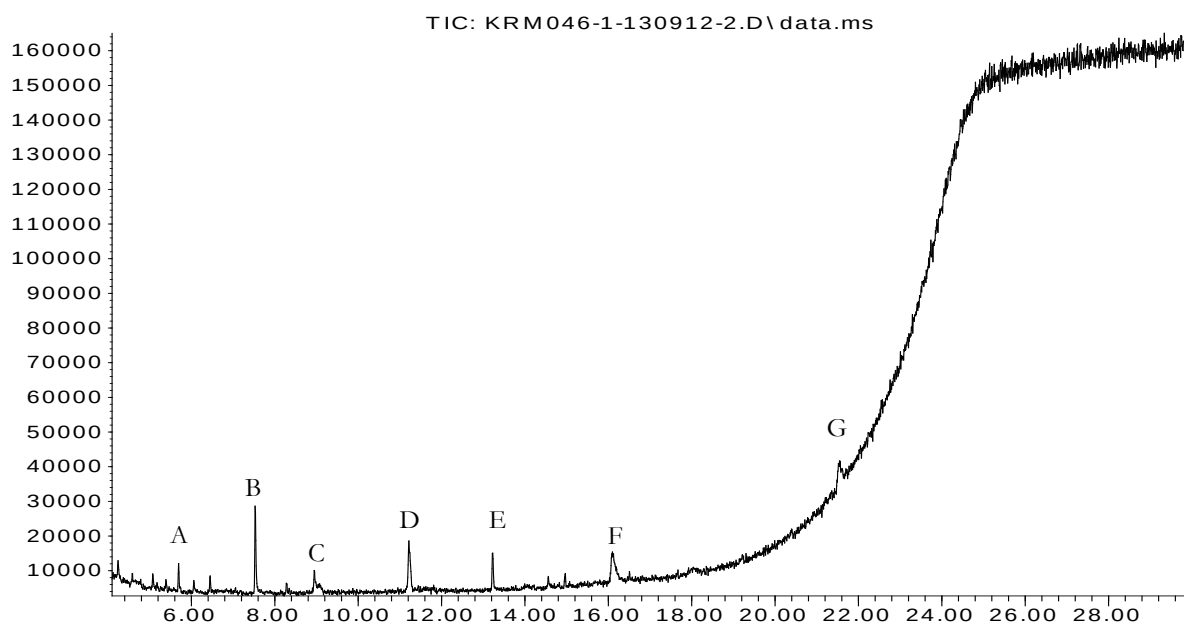
Hexadecanoic Acid, Methyl Ester

Phthalate Plasticisers

Cross-References:

Locus: 003, 005, 006, 008, 018, 022, 023, 025, 028, 029, 031, 050

Abundance

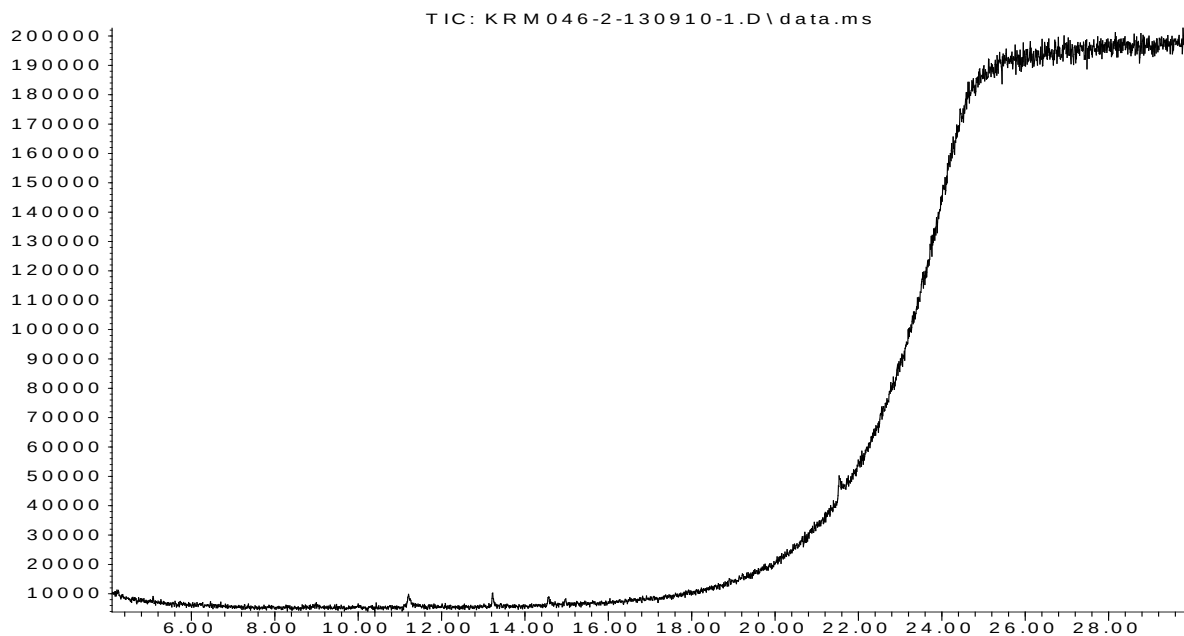


SAMPLE KRM046-1: Chloroform/Methanol Extraction and FAME Derivatisation

A) an alkane. B) Nonanoic Acid, Methyl Ester. C, D, E) Cyclosiloxane. F) Hexadecanoic Acid, Methyl Ester. G) Bis(2-ethylhexyl) Phthalate.

SAMPLE KRM046-2: Potassium Hydroxide/Methanol and FAME Derivatisation

Abundance



Siloxanes and phthalate plasticisers.

KRM 047

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3049-16, fine grid 10, lab 38.
Collapse above a floor. Body Sherd

Sherd Weight: 8.62229g $\pm$ 0.00001g
Sherd Thickness: 13.82mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00840g $\pm$ 0.00001g	(99.06%)
Potassium Hydroxide Extracted Residue:	0.00008g $\pm$ 0.00001g	(0.94%)
Total Extracted Residue:	0.00848g $\pm$ 0.00001g	

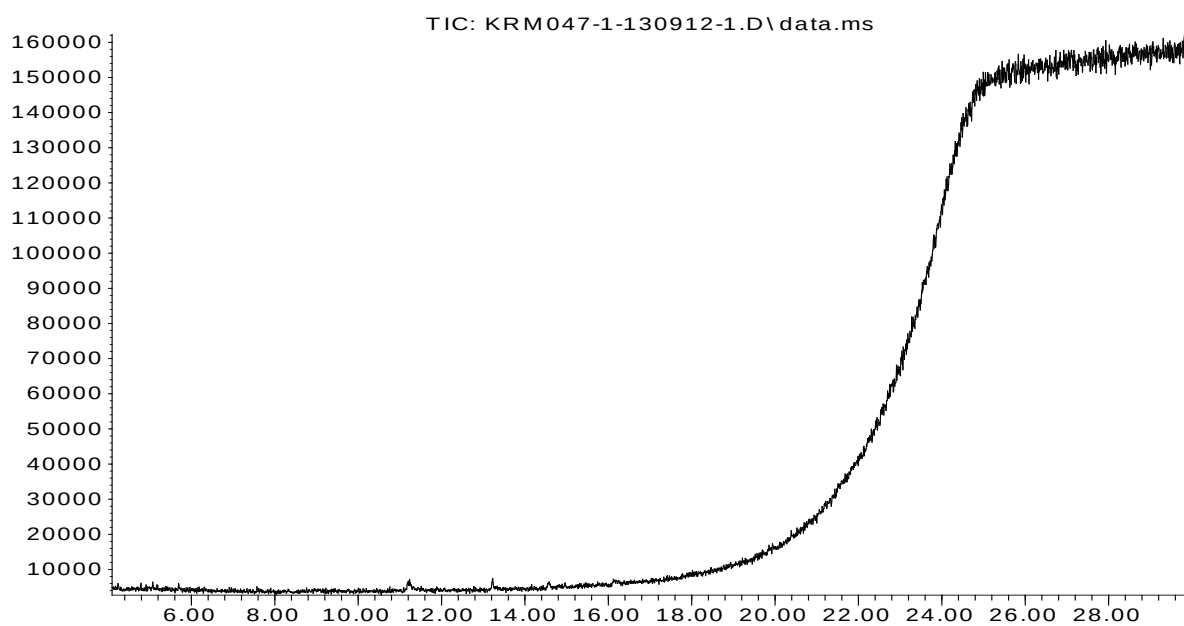
Chloroform Methanol Extraction Yield:	0.97mg/g
Potassium Hydroxide Extraction Yield:	0.01mg/g
Total Yield:	0.98mg/g

Cyclosiloxanes

Cross-References:

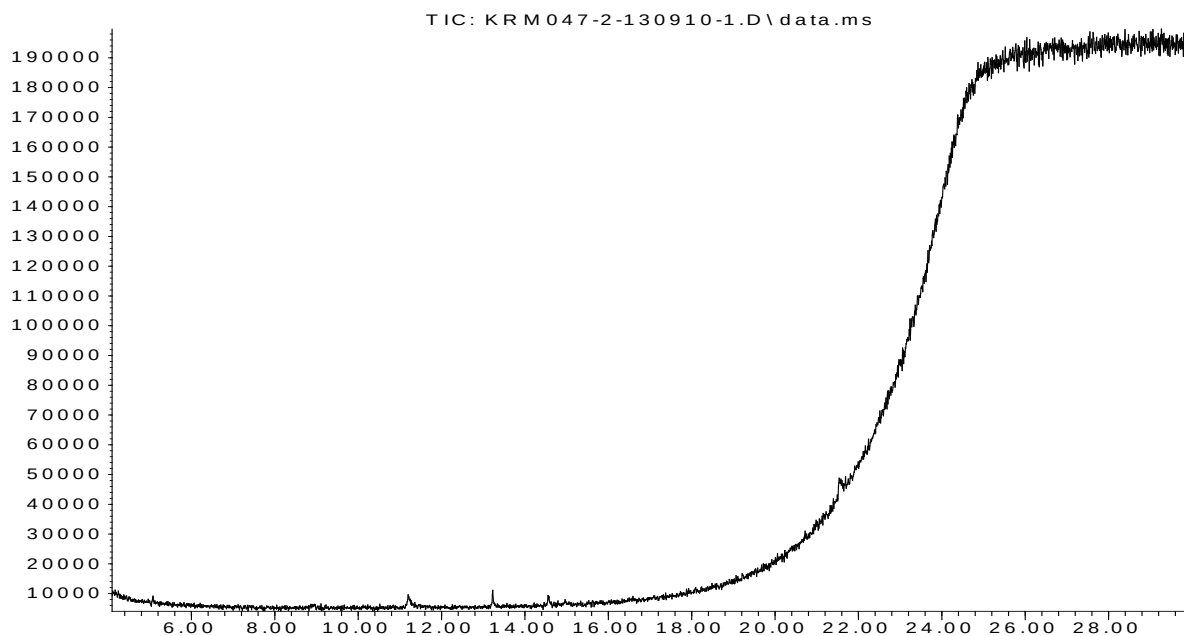
Locus: 057, 060, 062

Abundance



SAMPLE KRM047-1: Chloroform/Methanol Extraction and FAME Derivatisation
Nothing

Abundance



SAMPLE KRM047-2: Potassium Hydroxide/Methanol Extraction and FAME Derivatisation
All cyclosiloxanes

KRM 048

Kabri, Israel. 2009. Middle Bronze Age II. DS-2, locus 3060-15, fine grid 25, lab 14. Base sherd.

Sherd Weight: 7.41653g $\pm$ 0.00001g

Sherd Thickness: 8.19mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00192g $\pm$ 0.00001g (50.39%)

Potassium Hydroxide Extracted Residue: 0.00189g $\pm$ 0.00002g (49.61%)

Total Extracted Residue: 0.00381g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.26mg/g

Potassium Hydroxide Extraction Yield: 0.26mg/g

Total Yield: 0.51mg/g

Major Peak:

Undecane

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

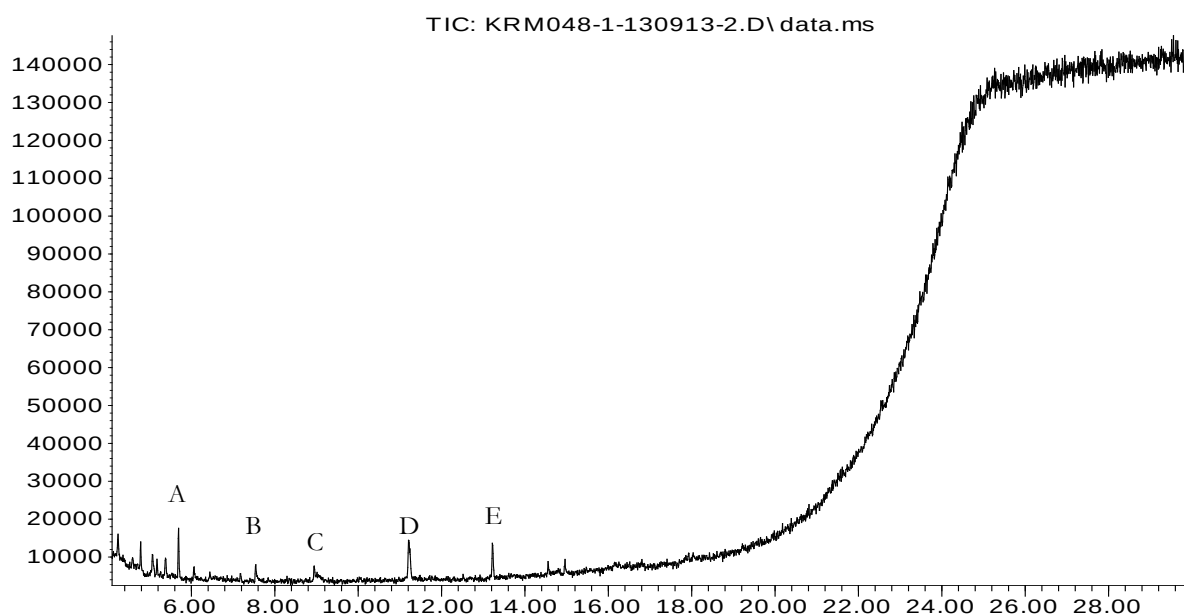
Nonanoic Acid, Methyl Ester

Cyclosiloxanes

Cross-References:

Locus: 004, 021, 040, 041, 045

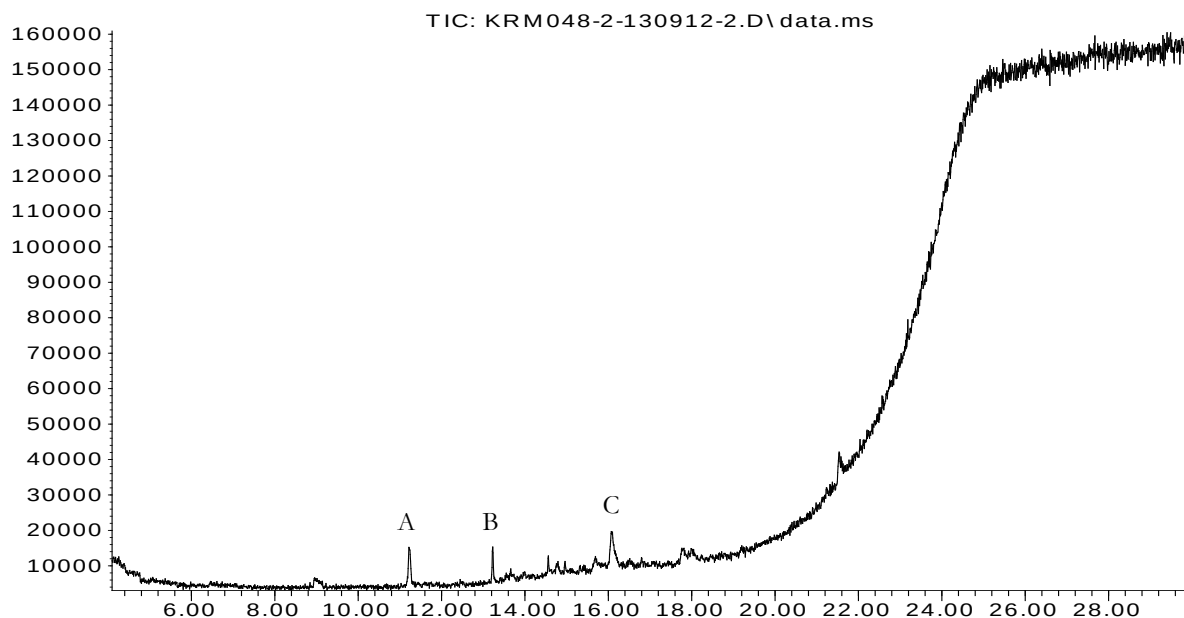
Abundance



SAMPLE KRM048-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Nonanoic Acid, Methyl Ester C,D, E) siloxanes

Abundance



SAMPLE KRM048-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A, B) siloxanes C) Hexadecanoic acid, methyl ester.

KRM 049

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 51. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 4.40243g $\pm$ 0.00001g

Sherd Thickness: 9.12mm $\pm$ 0.01

Chloroform Methanol Extracted Residue: 0.00528g $\pm$ 0.00001g (68.39%)

Potassium Hydroxide Extracted Residue: 0.00244g $\pm$ 0.00003g (31.61%)

Total Extracted Residue: 0.00772g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.20mg/g

Potassium Hydroxide Extraction Yield: 0.57mg/g

Total Yield: 1.75mg/g

Major Peak:

Cyclosiloxanes

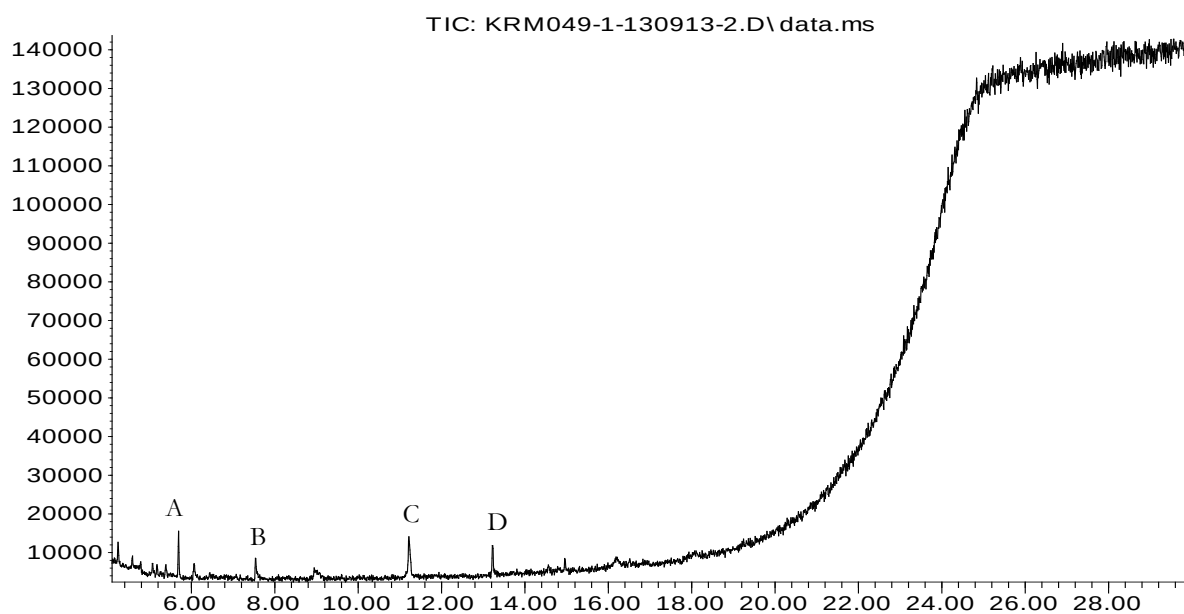
Secondary Peak:

Undecane

Cross-References:

Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 051, 052, 055, 056, 058

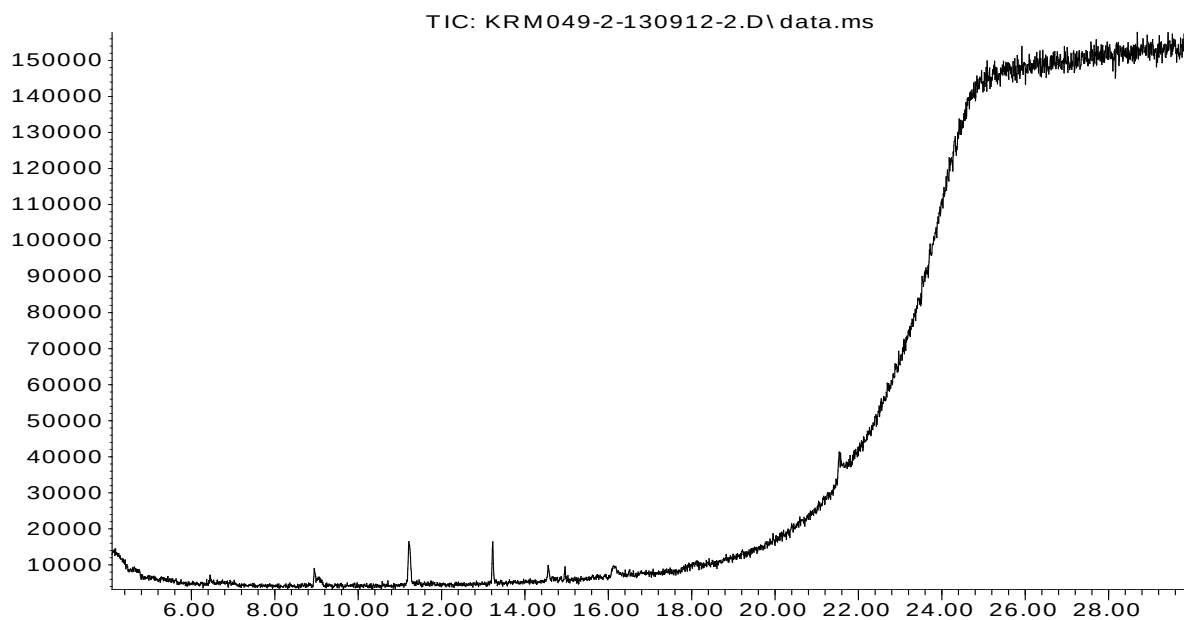
Abundance



SAMPLE KRM049-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Nonanoic Acid, Methyl Ester C,D) cyclosiloxanes.

Abundance



SAMPLE KRM049-002: Potassium Hydroxide Extraction and FAME Derivatistaion

Siloxanes and phthalate plasticisers

KRM 050

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2161-7, fine grid 5, lab 18.
Occupational debris, palatial context. Body sherd.

Sherd Weight: 6.25263g $\pm$ 0.00001g
Sherd Thickness: 15.62mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00350g $\pm$ 0.00001g	(87.72%)
Potassium Hydroxide Extracted Residue:	0.00049g $\pm$ 0.00003g	(12.28%)
Total Extracted Residue:	0.00399g $\pm$ 0.00003g	

Chloroform Methanol Extraction Yield:	0.56mg/g
Potassium Hydroxide Extraction Yield:	0.08mg/g
Total Yield:	0.64mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Undecane

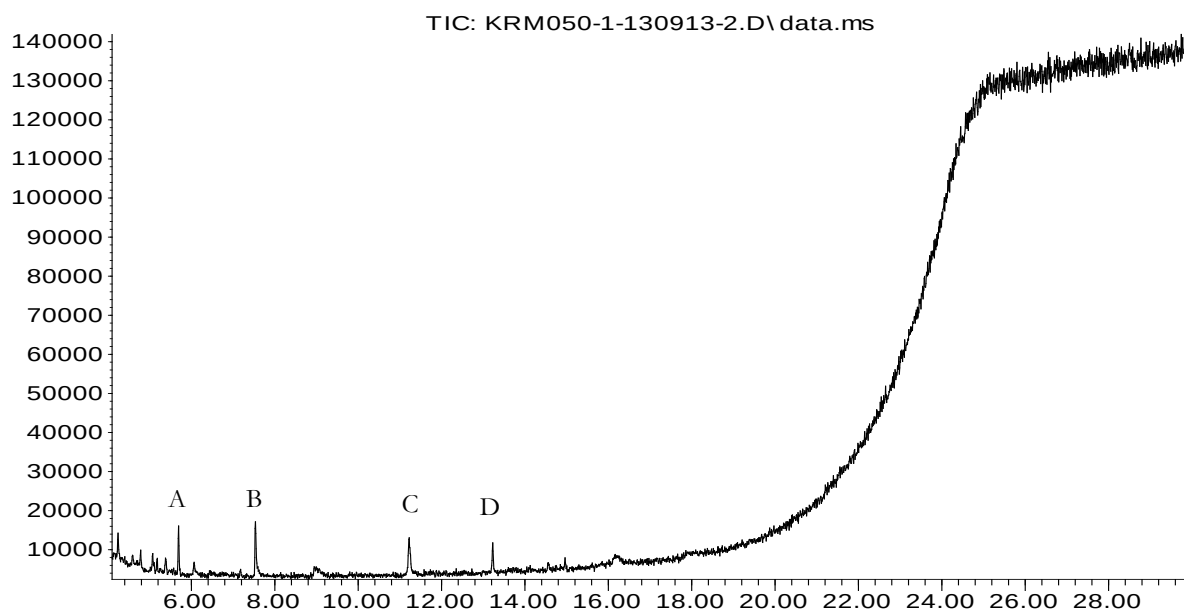
Other Peaks of Note:

Cyclosiloxanes

Cross References:

Locus: 003, 005, 006, 008, 018, 022, 023, 025, 028, 029, 031, 046

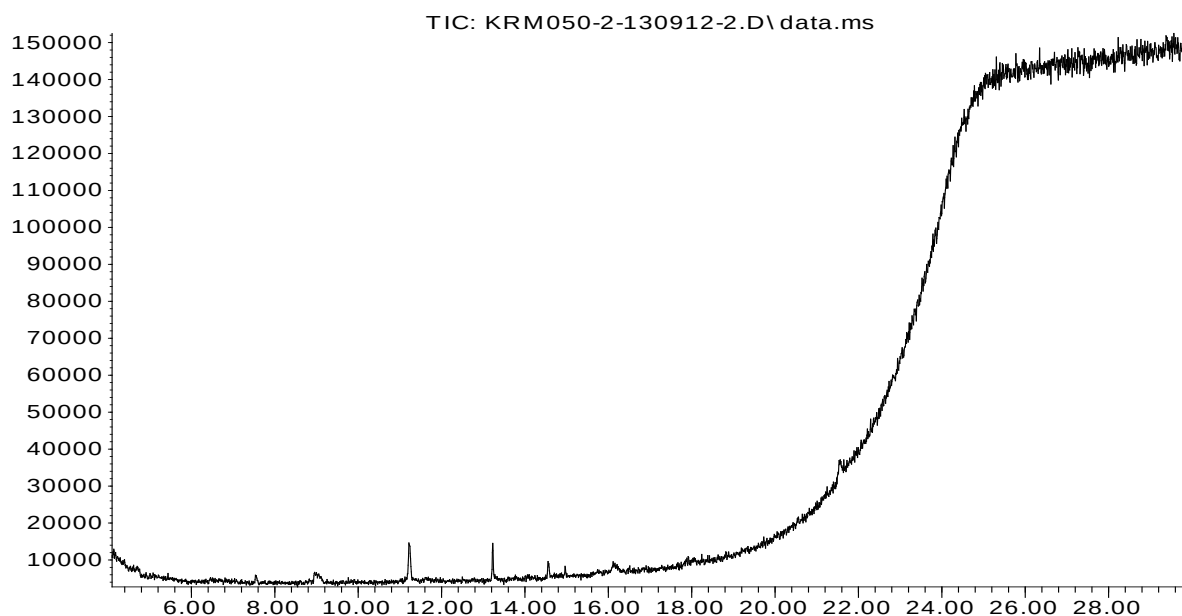
Abundance



SAMPLE KRM050-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Nonanoic Acid, Methyl Ester. C, D) cyclosiloxanes

Abundance



SAMPLE KRM050-002: Potassium Hydroxide Extraction and FAME Derivatistaion

siloxanes

KRM 051

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 60. Drainage deposit, palatial context.

Sherd Weight: 6.02838g $\pm$ 0.00001g

Sherd Thickness: 8.22mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00483g $\pm$ 0.00001g (74.31%)

Potassium Hydroxide Extracted Residue: 0.00167g $\pm$ 0.00002g (25.69%)

Total Extracted Residue: 0.00650g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.80mg/g

Potassium Hydroxide Extraction Yield: 0.28mg/g

Total Yield: 1.08mg/g

Major Peak:

Cyclosiloxanes

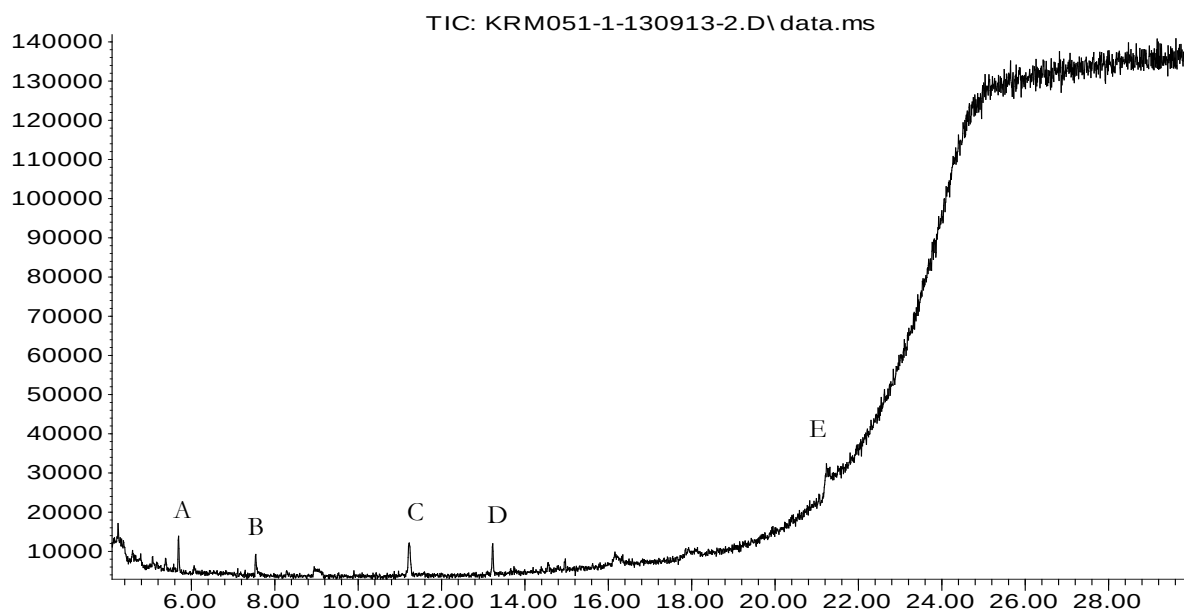
Secondary Peak:

Nonanoic Acid, Methyl Ester

Cross-References:

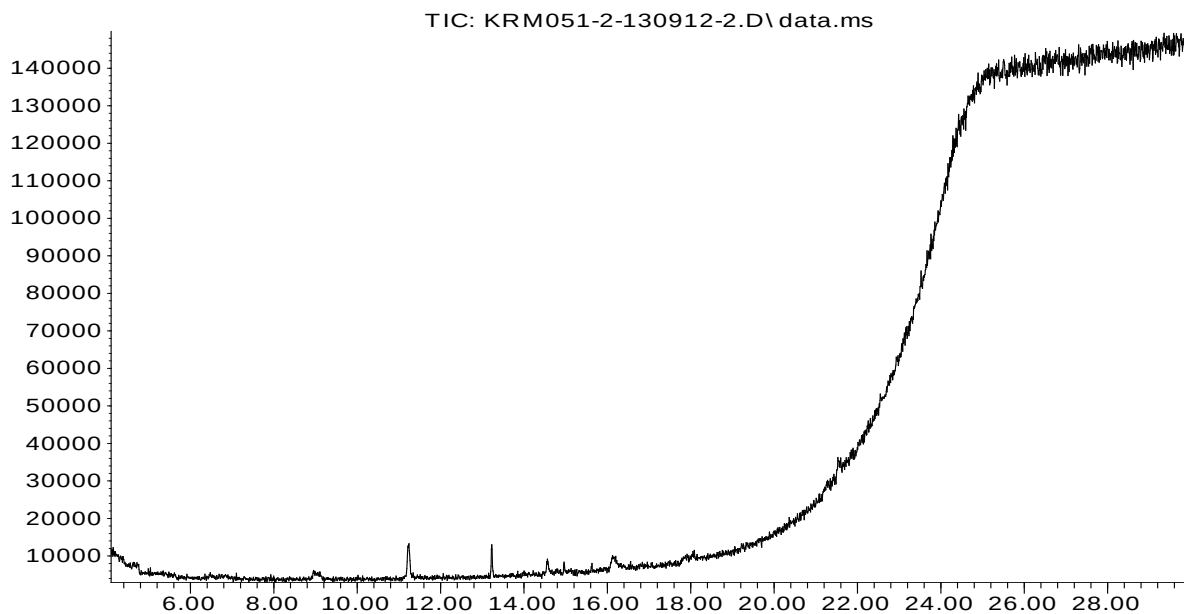
Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 052, 055, 056, 058

Abundance



SAMPLE KRM051-001: Chloroform/Methanol Extraction and FAME Derivatistation
A)Undecane B) Nonanoic Acid, Methyl Ester. C,D) cyclosiloxanes. E) Bis(2-ethylhexyl) phthalate

Abundance



SAMPLE KRM051-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All cyclosiloxanes

KRM 052

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 60. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 2.91826g $\pm$ 0.00001g

Sherd Thickness: 7.59mm $\pm$ 0.01

Chloroform Methanol Extracted Residue: 0.00370g $\pm$ 0.00001g (87.26%0

Potassium Hydroxide Extracted Residue: 0.00054g $\pm$ 0.00003g (12.74%)

Total Extracted Residue: 0.00424g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.27mg/g

Potassium Hydroxide Extraction Yield: 0.19mg/g

Total Yield: 1.45mg/g

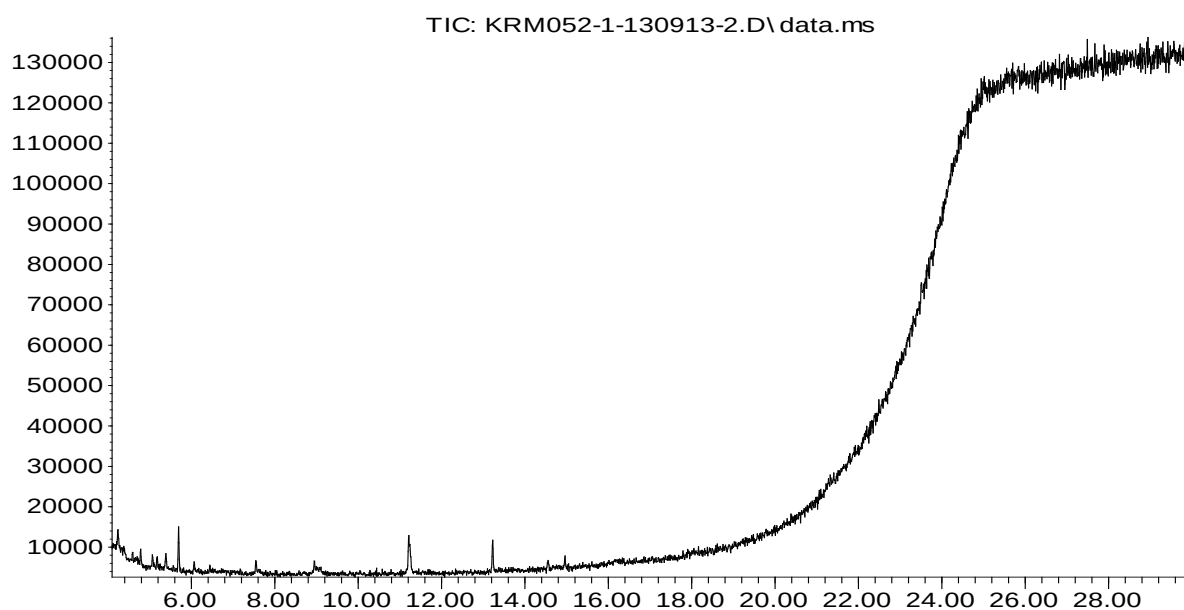
Major Peak:

Cyclosiloxanes

Cross-References:

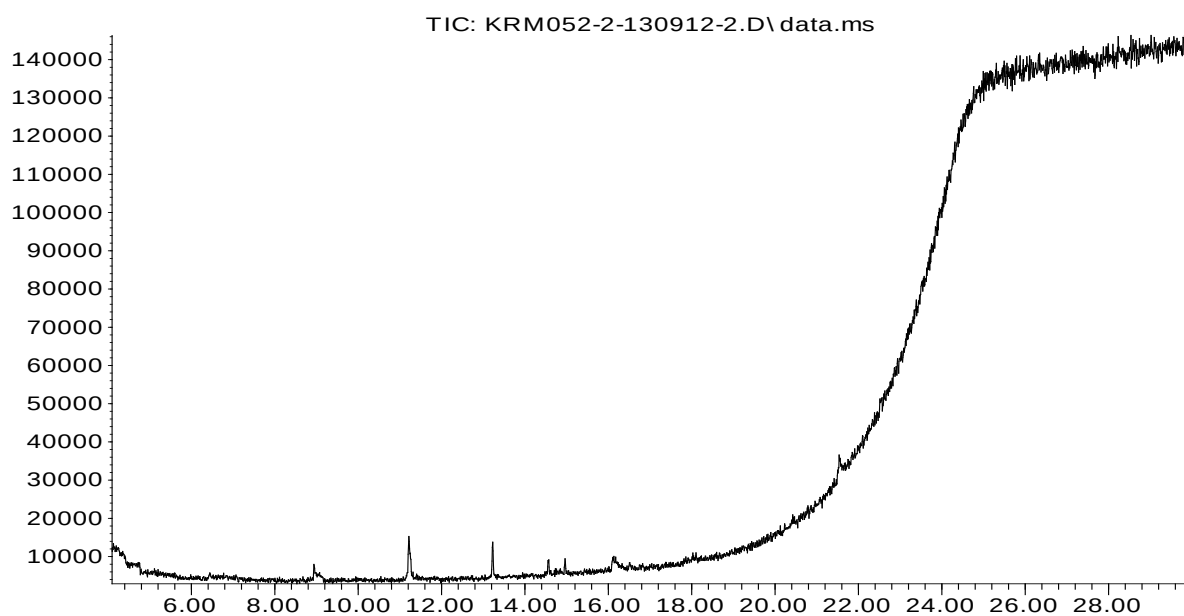
Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 055, 056, 058

Abundance



SAMPLE KRM052-001: Chloroform/Methanol Extraction and FAME Derivatistation
All cyclosiloxanes.

Abundance



SAMPLE KRM052-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All cyclosiloxanes.

KRM 053

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3019-8, fine grid 20/25, lab 5. Rim sherd.

Sherd Weight: $10.81980\text{g} \pm 0.00001\text{g}$
 Sherd Thickness: $13.00\text{mm} \pm 0.01\text{mm}$

Chloroform Methanol Extracted Residue:	$0.00136\text{g} \pm 0.00002\text{g}$	(3.23%)
Potassium Hydroxide Extracted Residue:	$0.04070\text{g} \pm 0.00001\text{g}$	(96.77%)
Total Extracted Residue:	$0.04206\text{g} \pm 0.00002\text{g}$	

Chloroform Methanol Extraction Yield:	0.13mg/g
Potassium Hydroxide Extraction Yield:	3.85mg/g
Total Yield:	3.89mg/g

Major Peak:

Nonanoic Acid, Methyl Ester

Secondary Peak:

Octanoic Acid, Methyl Ester

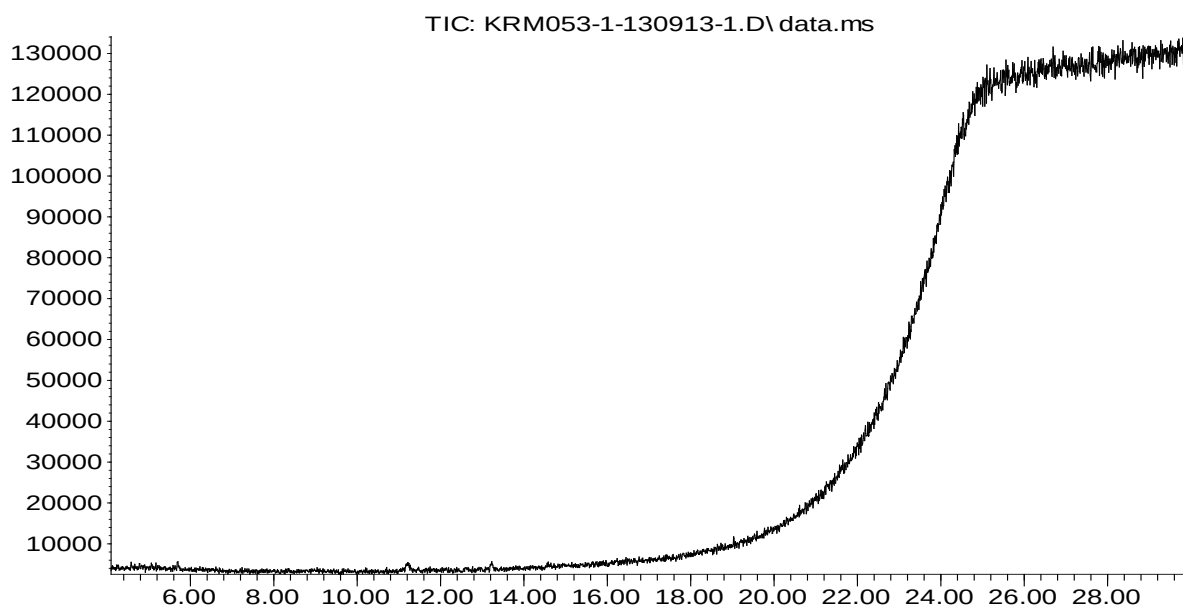
Other Peaks of Note:

Alkanoic Acid Methyl Esters: $\text{C}_{7:0}$, $\text{C}_{8:0}$, $\text{C}_{9:0}$, $\text{C}_{16:0}$

Cross-Reference:

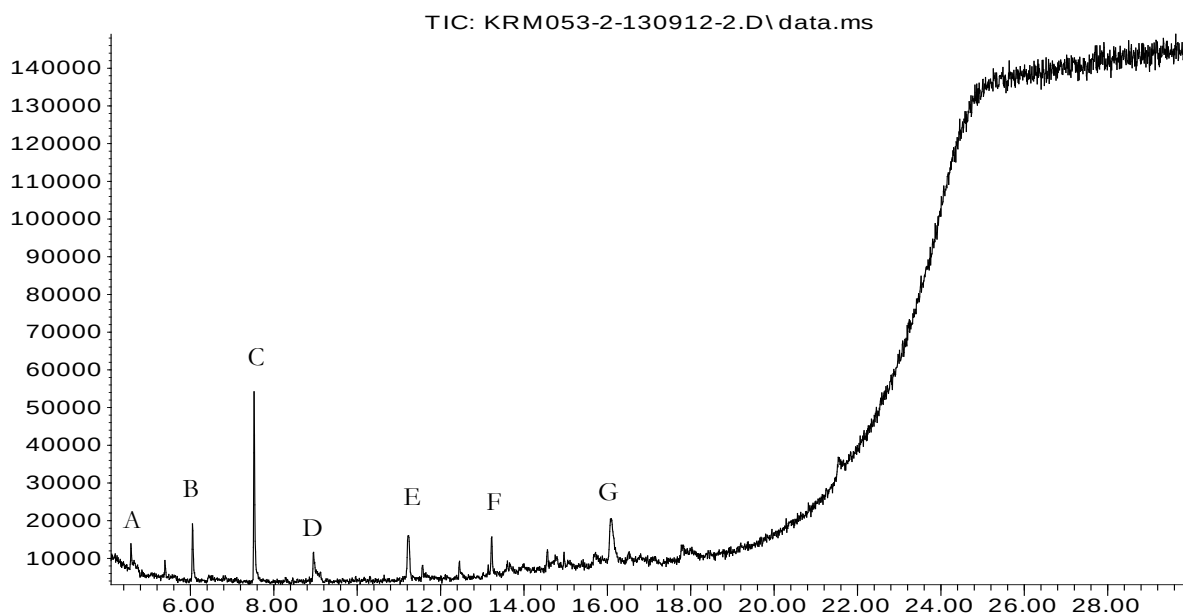
Locus: 054

Abundance



SAMPLE KRM053-001: Chloroform/Methanol Extraction and FAME Derivatistation
Nothing.

Abundance



SAMPLE KRM053-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Heptanoic Acid, Methyl Ester. B) Octanoic Acid, Methyl Ester C) Nonanoic Acid, Methyl Ester D-F) cyclosiloxanes G) Hexadecanoic Acid, Methyl Ester.

KRM 054

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 30197, lab 7. Deposit above floor.
Rim sherd.

Sherd Weight: 4.52960g $\pm$ 0.00001g

Sherd Thickness: 9.21mm $\pm$ 0.01

Chloroform Methanol Extracted Residue: 0.00280g $\pm$ 0.00002g (75.07%)

Potassium Hydroxide Extracted Residue: 0.00093g $\pm$ 0.00001g (24.93%)

Total Extracted Residue: 0.00373g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.62mg/g

Potassium Hydroxide Extraction Yield: 0.21mg/g

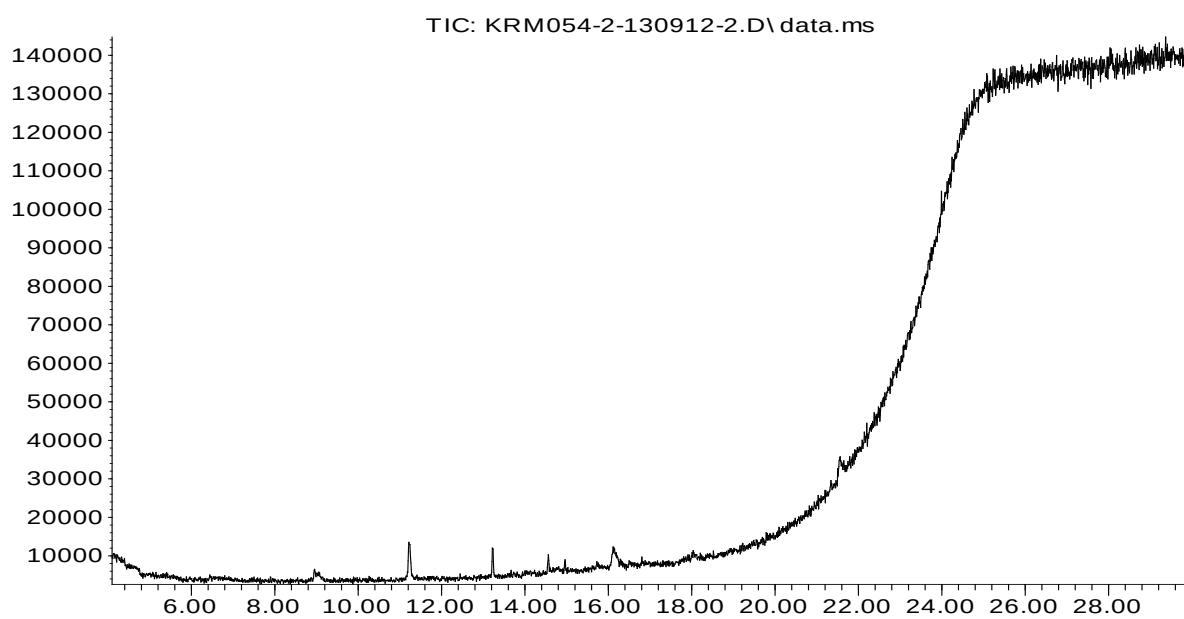
Total Yield: 0.82mg/g

All siloxanes

Cross-Reference:

Locus: 053

Abundance



SAMPLE KRM054-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes

KRM 055

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 59. Drainage deposit, palatial context.

Sherd Weight: 11.90259g $\pm$ 0.00001g

Sherd Thickness: 10.42mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00339g $\pm$ 0.00002g	(9.41%)
Potassium Hydroxide Extracted Residue:	0.03265g $\pm$ 0.00001g	(90.59%)
Total Extracted Residue:	0.03604g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield: 0.28mg/g

Potassium Hydroxide Extraction Yield: 2.78mg/g

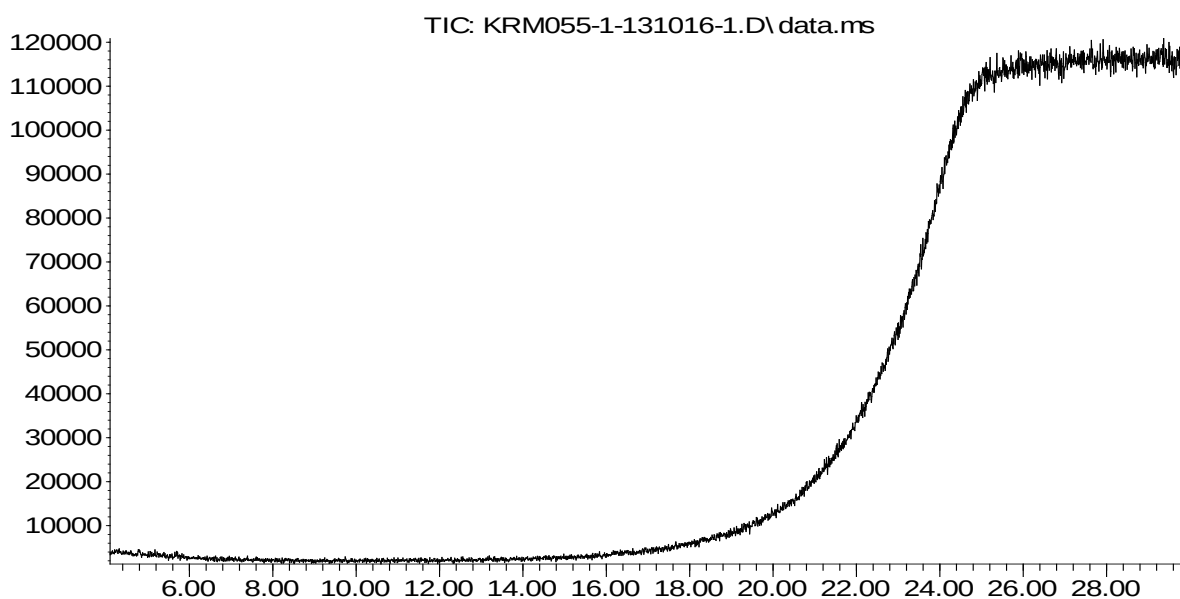
Total Yield: 3.03mg/g

All siloxanes.

Cross-References:

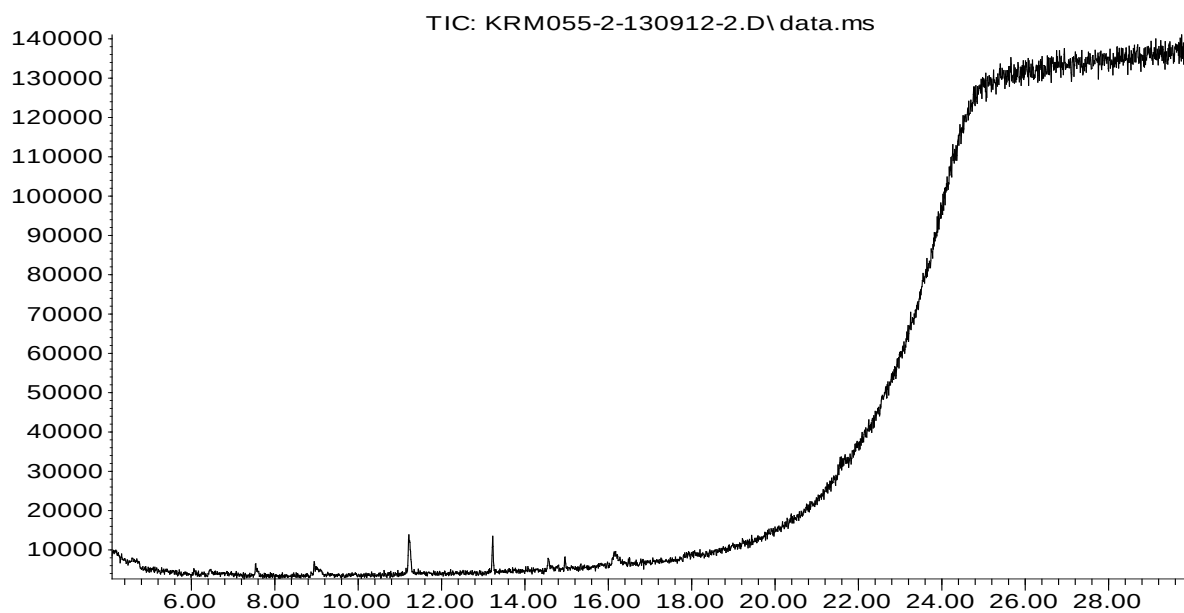
Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 056, 058

Abundance



SAMPLE KRM055-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM055-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Siloxanes

KRM 056

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 55. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 8.38687g $\pm$ 0.00002g
 Sherd Thickness: 12.18mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.01061g $\pm$ 0.00002g	(91.94%)
Potassium Hydroxide Extracted Residue:	0.00093g $\pm$ 0.00001g	(8.06%)
Total Extracted Residue:	0.01154g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	1.27mg/g
Potassium Hydroxide Extraction Yield:	0.11mg/g
Total Yield:	1.38mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester (Methyl Palmitate)

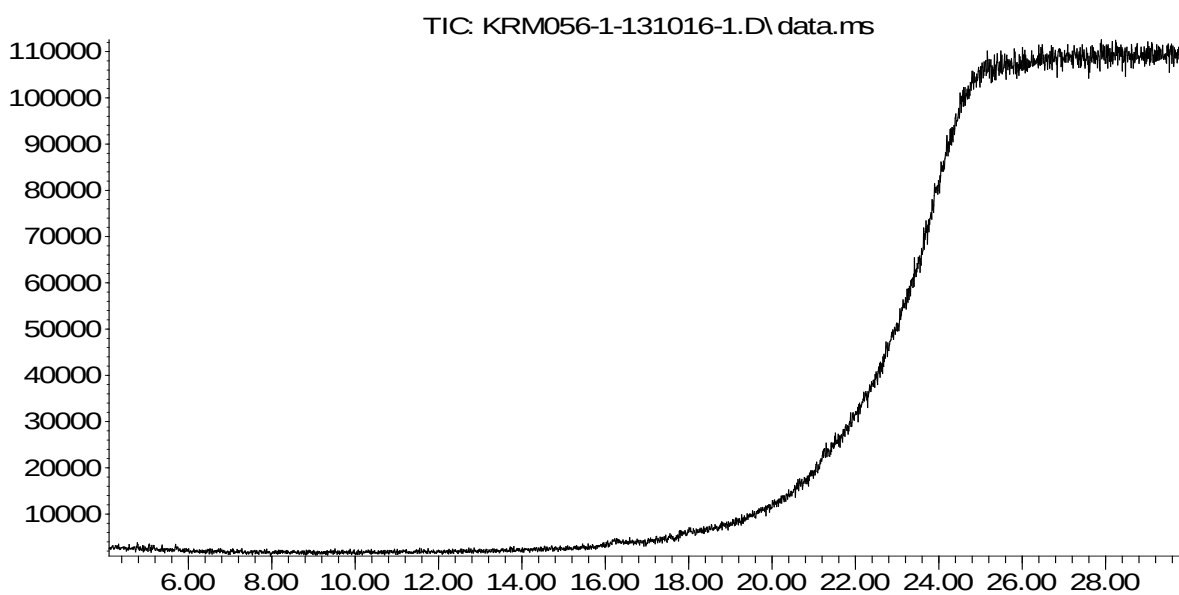
Secondary Peaks:

Cyclosiloxanes

Cross-References:

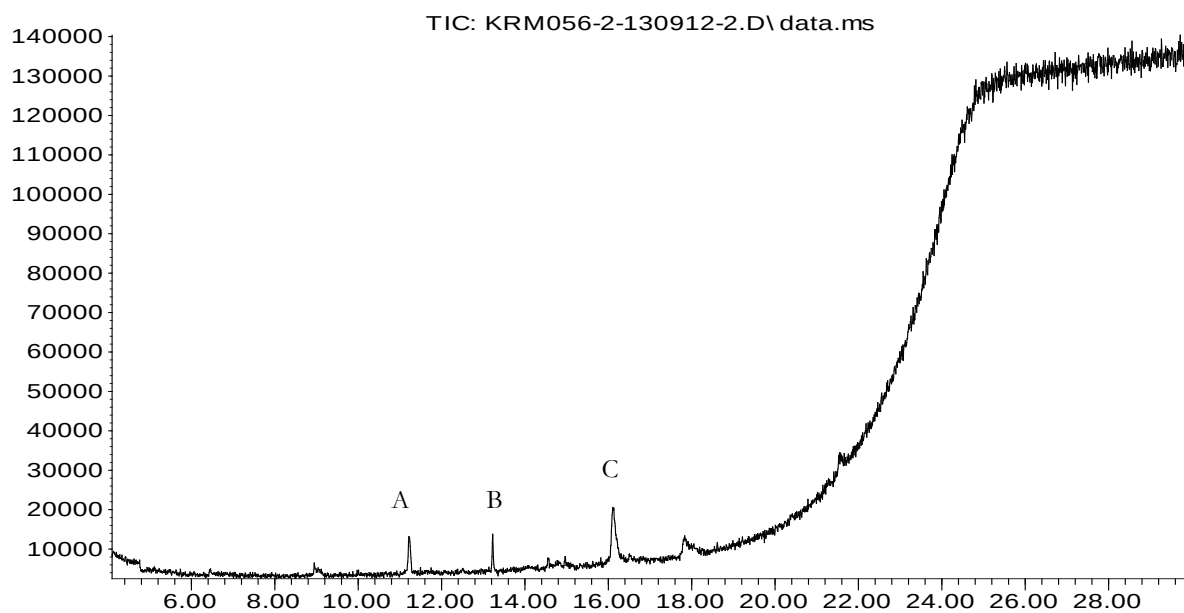
Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 058

Abundance



SAMPLE KRM056-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM056-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A, B) Cyclosiloxanes C) Hexadecanoic Acid, Methyl Ester

KRM 057

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3049-1, lab 2. Deposit above floor.
Cooking pot, body sherd.

Sherd Weight: 6.25093g $\pm$ 0.00001g

Sherd Thickness: 11.91mm $\pm$ 0.01m

Chloroform Methanol Extracted Residue: 0.00486g $\pm$ 0.00001g (89.83%)

Potassium Hydroxide Extracted Residue: 0.00055g $\pm$ 0.00001g (10.17%)

Total Extracted Residue: 0.00541g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.78mg/g

Potassium Hydroxide Extraction Yield: 0.09mg/g

Total Yield: 0.87mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

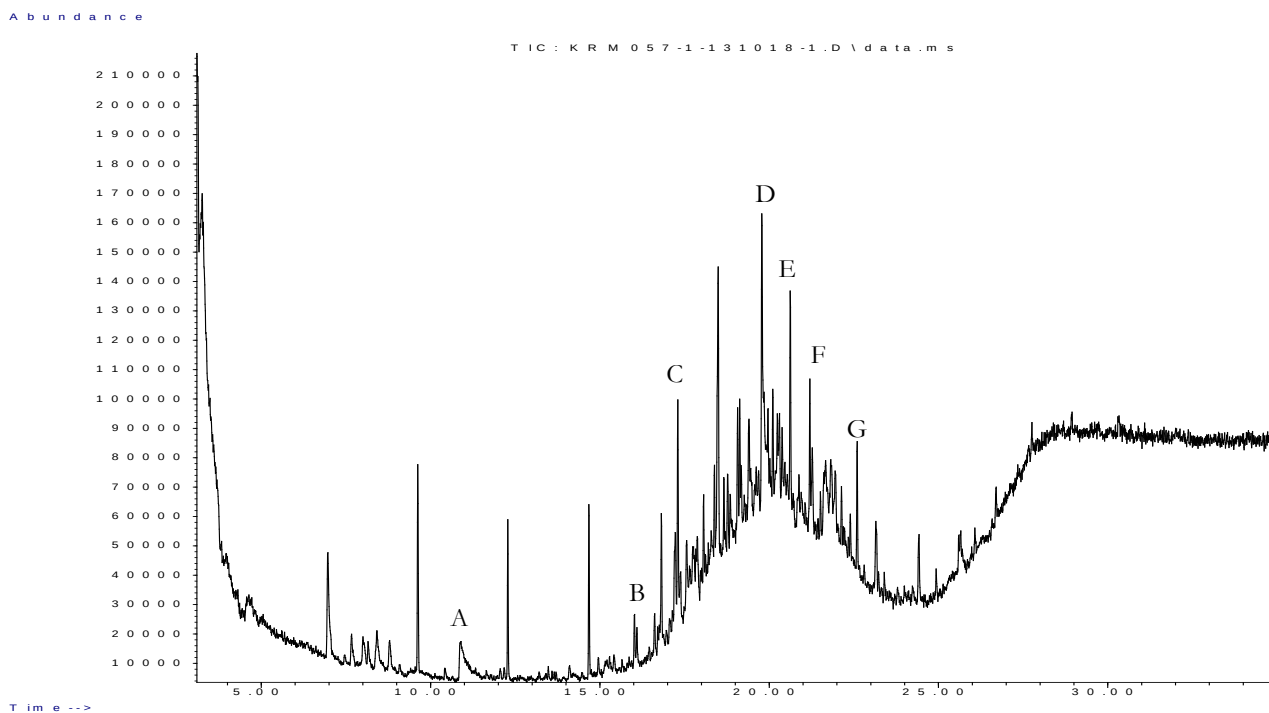
Secondary Peak:

Alkanes

Other Peaks of Note:

Cross-References:

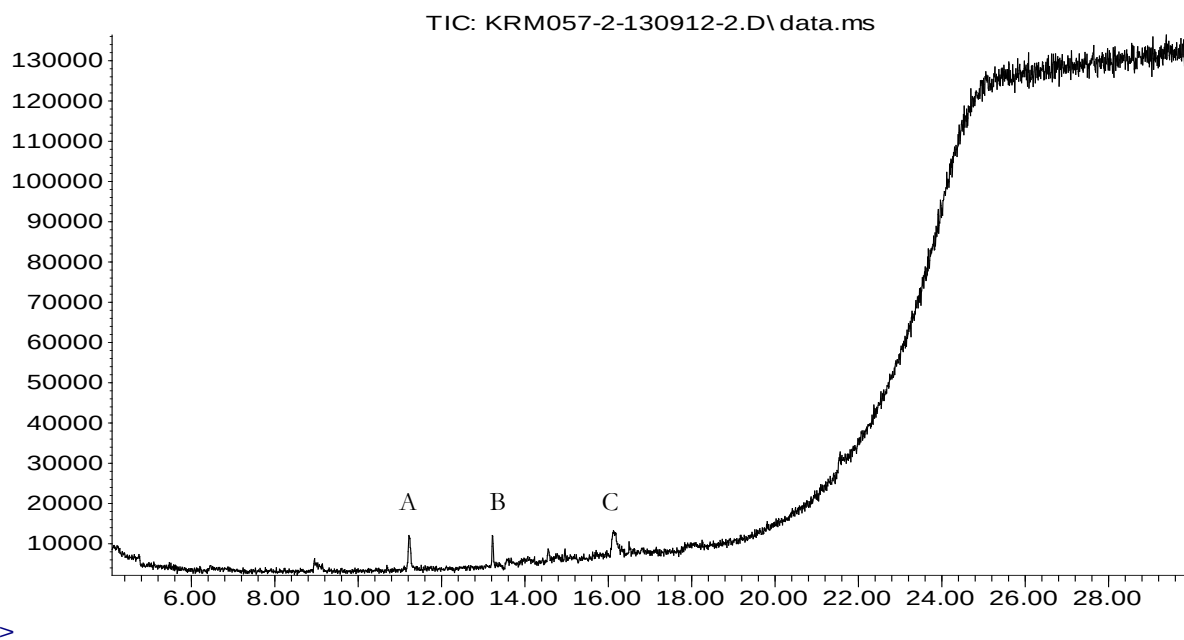
Locus: 047, 060, 062



SAMPLE KRM057-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Nonanoic Acid, Methyl Ester. B) Hexadecane. C) Heptadecane. D) Hexadecanoic Acid, Methyl Ester. E) Octadecane F) Eicosane G) Heneicosane.

Abundance



SAMPLE KRM057-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A, B) Cyclosiloxanes C) Hexadecanoic Acid, Methyl Ester

KRM 058

Kabri, Israel. 2009. Middle Bronze Age II. DW-W, locus 2197, lab 57. Drainage deposit, palatial context. Body sherd.

Sherd Weight: 5.95928g $\pm$ 0.00001g

Sherd Thickness: 8.02mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00616g $\pm$ 0.00003g (70.72%)

Potassium Hydroxide Extracted Residue: 0.00255g $\pm$ 0.00002g (29.28%)

Total Extracted Residue: 0.00871g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 1.03mg/g

Potassium Hydroxide Extraction Yield: 0.43mg/g

Total Yield: 1.46mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Nonanoic Acid, Methyl Ester

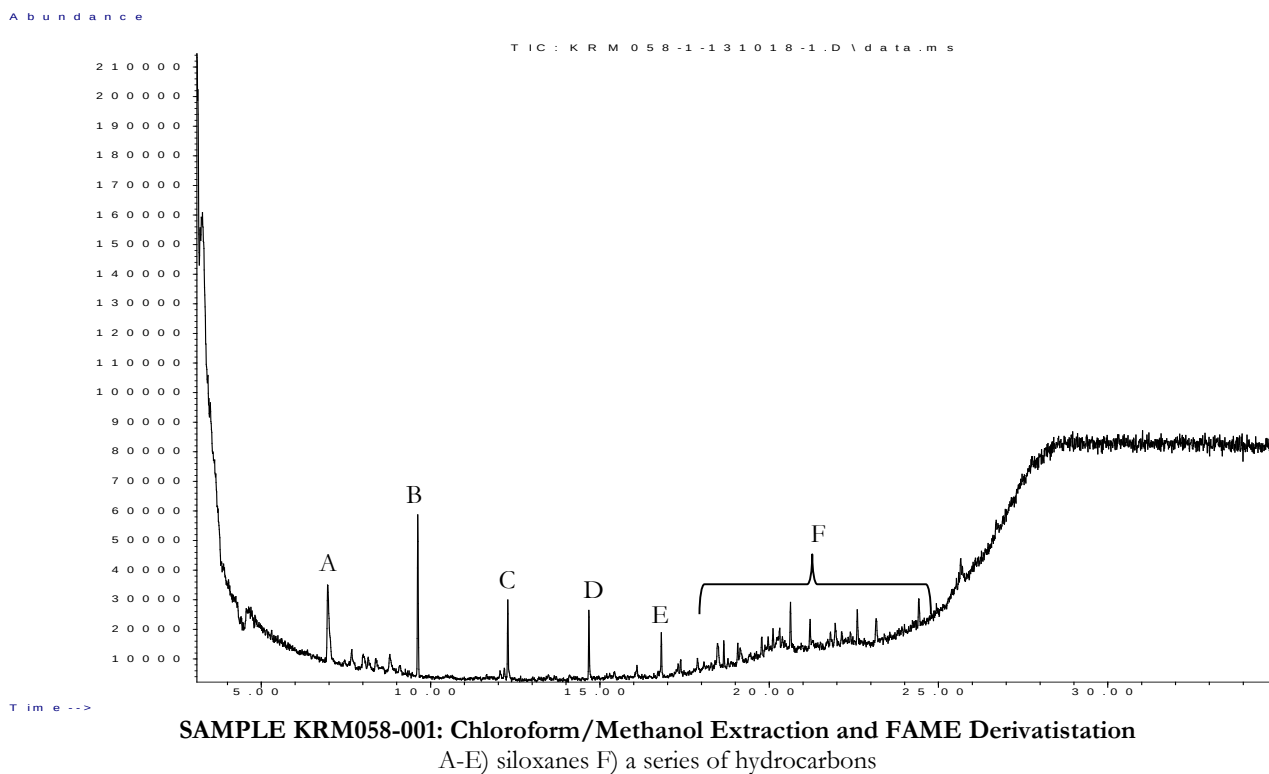
Other Peaks of Note:

Series of hydrocarbons

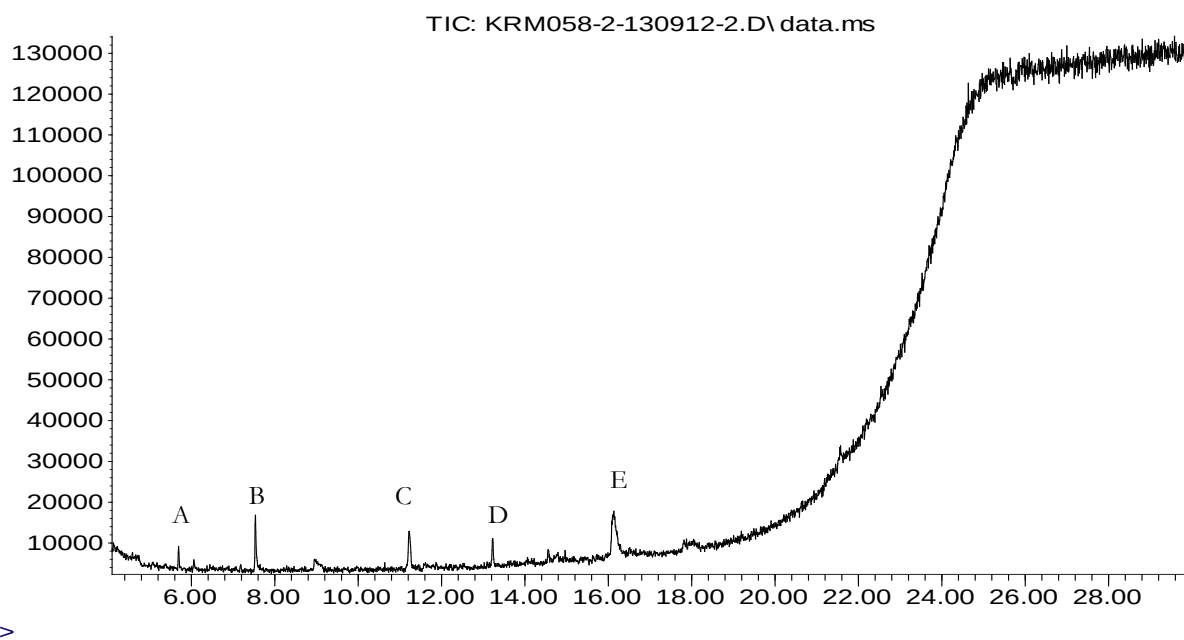
Siloxanes

Cross-References:

Locus: 009, 017, 019, 032, 034, 036, 037, 038, 042, 043, 049, 051, 052, 055, 056



Abundance



KRM 059

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3055-6, lab 39. Collapse above a floor. Body sherd.

Sherd Weight: 9.33507g $\pm$ 0.00002g

Sherd Thickness: 12.07mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00424g $\pm$ 0.00004g (21.50%)

Potassium Hydroxide Extracted Residue: 0.01548g $\pm$ 0.00002g (78.50%)

Total Extracted Residue: 0.01972g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 0.45mg/g

Potassium Hydroxide Extraction Yield: 1.70mg/g

Total Yield: 2.11mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

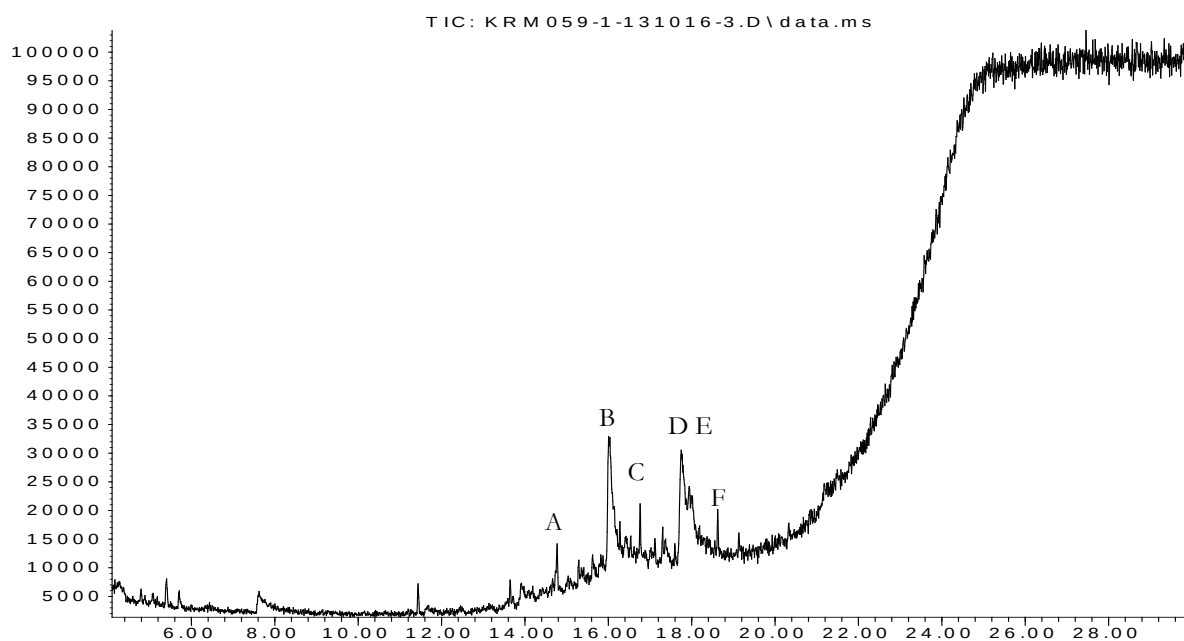
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

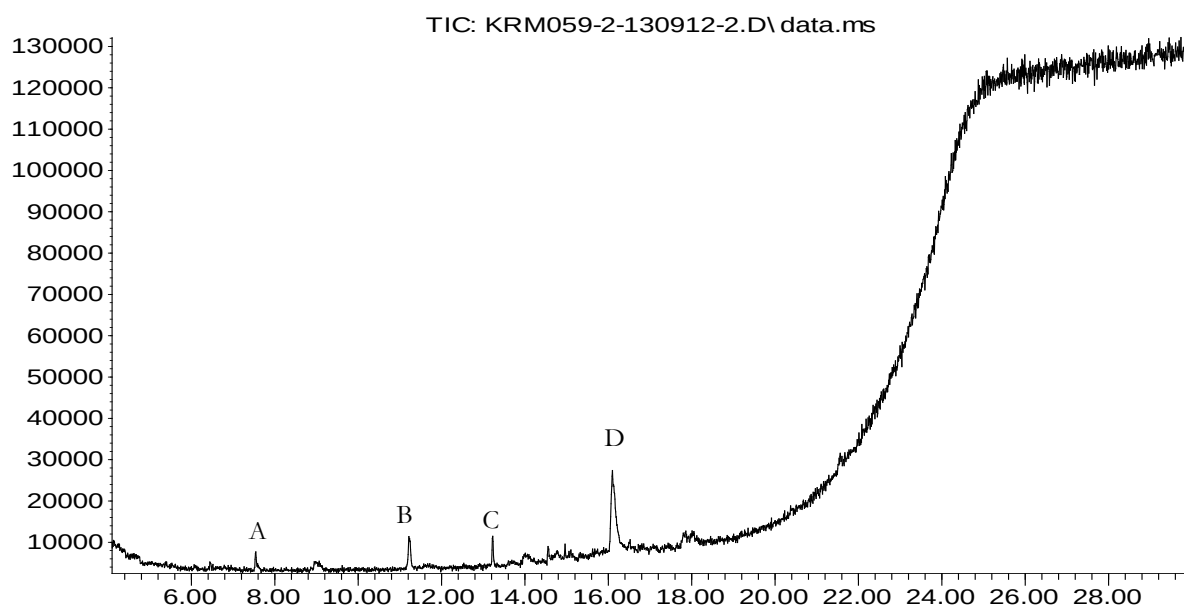
Abundance



SAMPLE KRM059-001: Chloroform/Methanol Extraction and FAME Derivatistation

A, C, F) alkanes. B) Hexadecanoic Acid, Methyl Ester D) Octadecenoic Acid, Methyl Ester E) Octadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM059-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Nonanoic Acid, Methyl Ester B,C) siloxane D) Hexadecanoic Acid, Methyl Ester.

KRM 060

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3049-4, fine grid 14, lab 4.
Plastered installation in a deposit above a floor. Body fragment. Extremely coarse.

Sherd Weight: 9.77168g $\pm$ 0.00004g

Chloroform Methanol Extracted Residue:	0.00319g $\pm$ 0.00004g	(90.88%)
Potassium Hydroxide Extracted Residue:	0.00032g $\pm$ 0.00001g	(9.12%)
Total Extracted Residue:	0.00351g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	0.33mg/g
Potassium Hydroxide Extraction Yield:	0.03mg/g
Total Yield:	0.36mg/g

Major Peak:

Siloxanes

Secondary Peak:

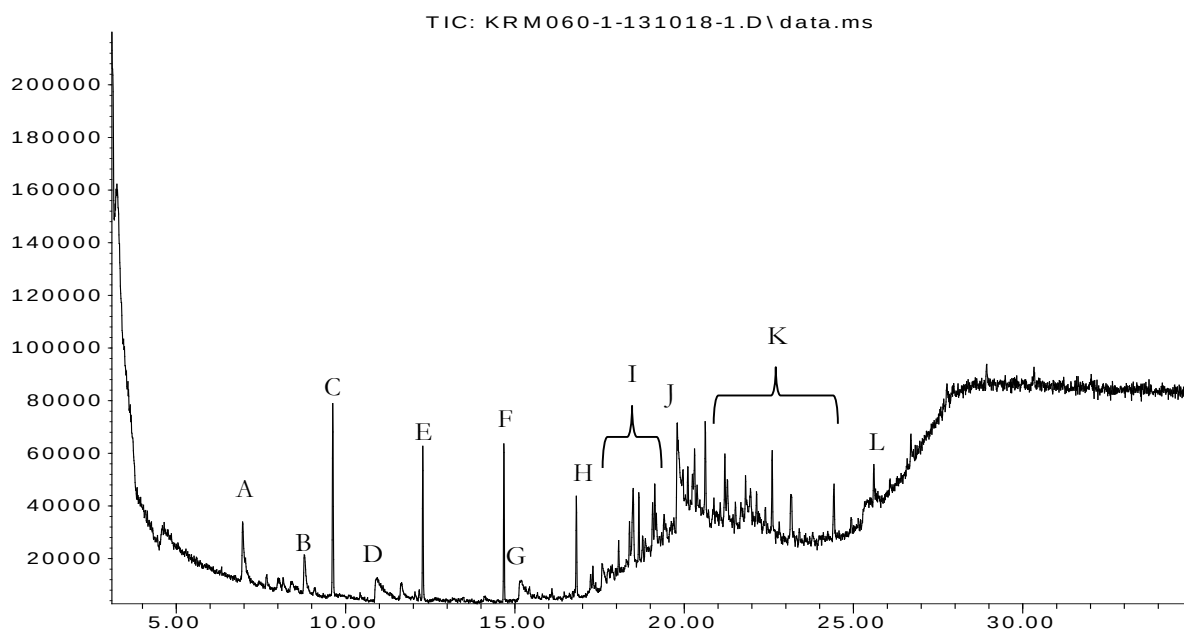
Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Cross References:

Locus: 047, 057, 062

Abundance

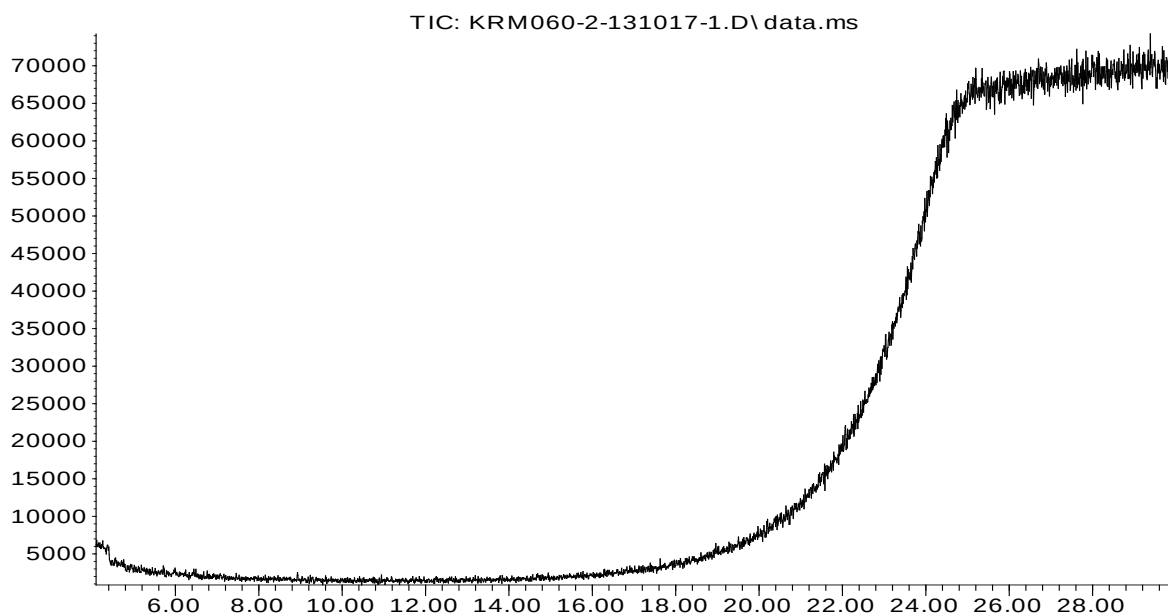


Time-->

SAMPLE KRM060-001: Chloroform/Methanol Extraction and FAME Derivatistation

A, C, E, F, H) siloxane B) Undecane D) Nonanoic Acid, Methyl Ester G) dimethyl nonanoate I, K) series of hydrocarbons J) Hexadecanoic Acid, Methyl Ester L) Bis(e-ethylhexyl) Phthalate

Abundance



Time-->

SAMPLE KRM060-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 061

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3061-1. Body Sherd.

Sherd Weight: 4.39800g $\pm$ 0.00001g

Sherd Thickness: 11.65mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00369g $\pm$ 0.00002g (85.22%)

Potassium Hydroxide Extracted Residue: 0.00064g $\pm$ 0.00001g (14.78%)

Total Extracted Residue: 0.00433g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.84mg/g

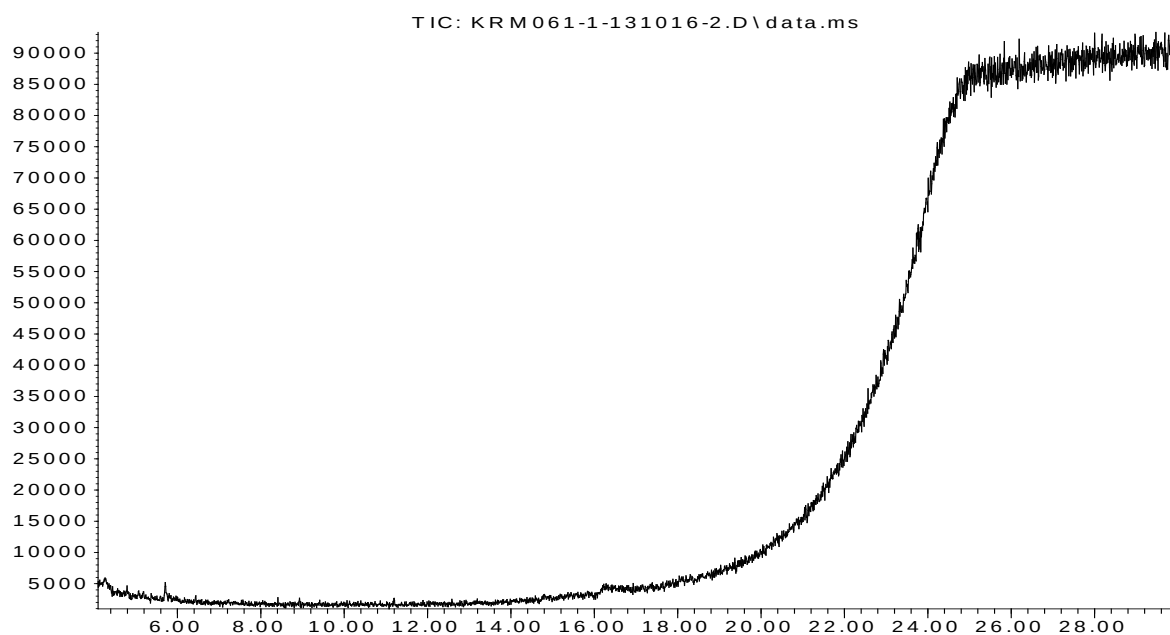
Potassium Hydroxide Extraction Yield: 0.15mg/g

Total Yield: 0.94mg/g

Cross-References:

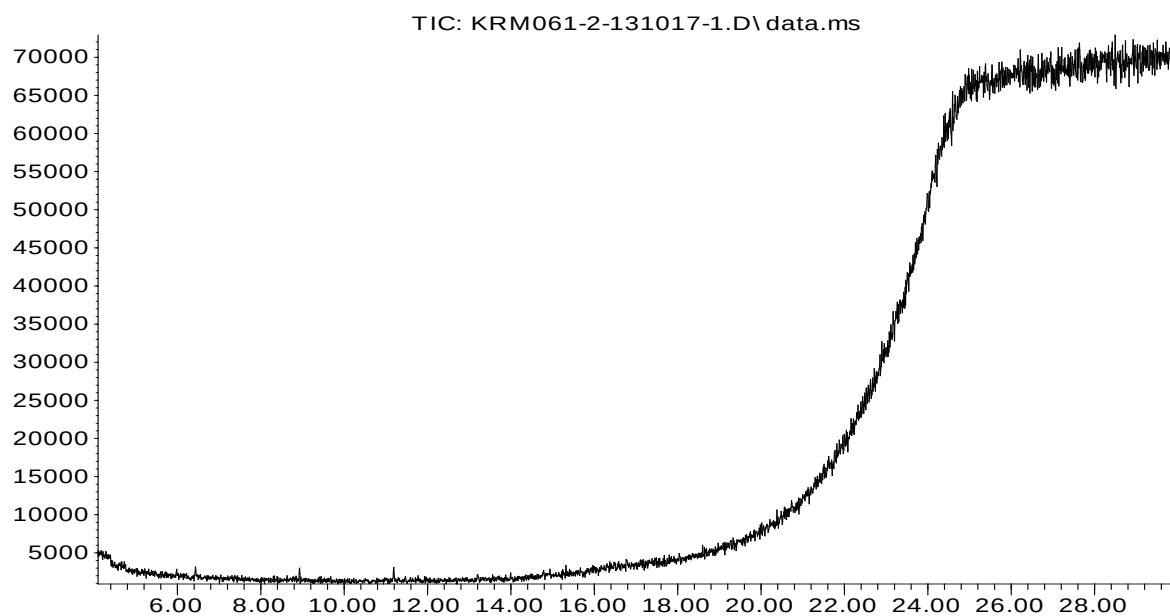
Locus: 033, 035, 039

Abundance



SAMPLE KRM061-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM061-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 062

Kabri, Israel. 2009. Middle Bronze Age II. DS-1, locus 3049-1, lab 6. Plastered installation in a deposit above a floor. Tabun material. Extremely coarse

Sherd Weight: 15.38765g $\pm$ 0.00004g

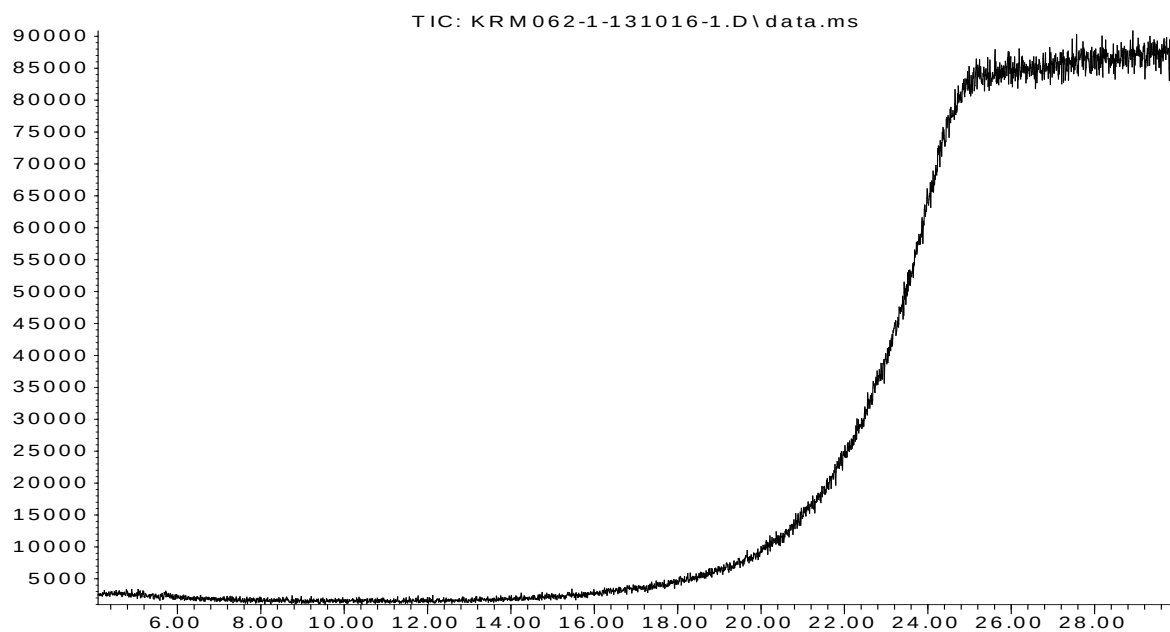
Chloroform Methanol Extracted Residue:	0.00284g $\pm$ 0.00001g	(91.91%)
Potassium Hydroxide Extracted Residue:	0.00025g $\pm$ 0.00004g	(8.09%)
Total Extracted Residue:	0.00309g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	0.18mg/g
Potassium Hydroxide Extraction Yield:	0.02mg/g
Total Yield:	0.20mg/g

Cross-References:

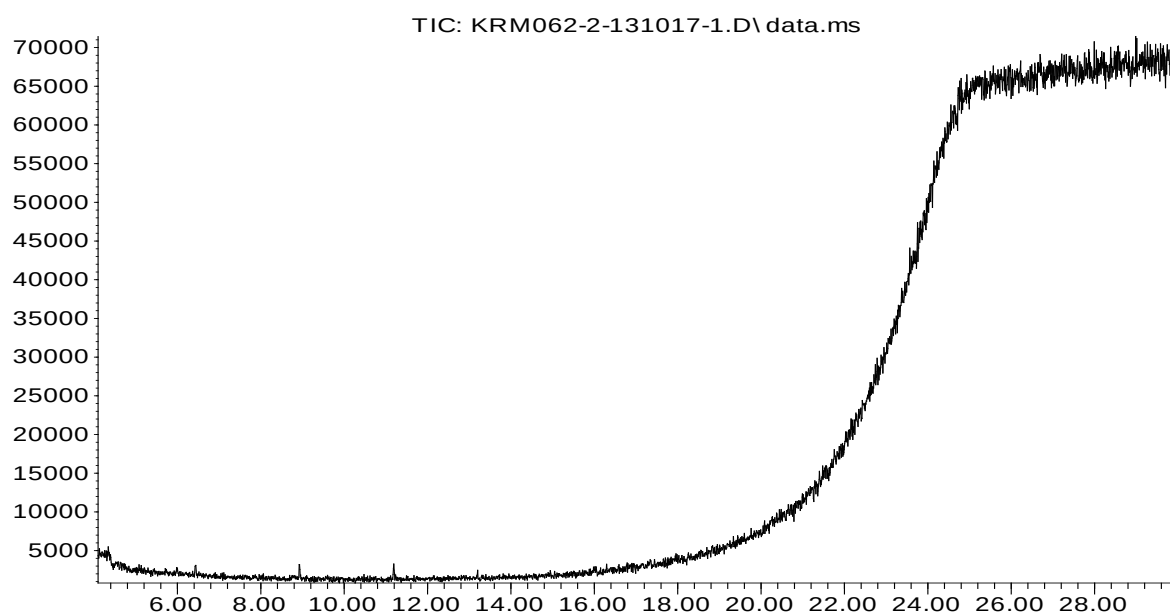
Locus: 047, 057, 060

Abundance



SAMPLE KRM062-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM062-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 063

Megiddo, Israel. 2010. Early Bronze Age. Area J, locus 10/J/113, pottery bucket 5, lab 12.
Burial in temple complex. Sherd from a small juglet.

Sherd Weight: $2.46233\text{g} \pm 0.00001\text{g}$

Sherd Thickness: $4.25\text{mm} \pm 0.01\text{mm}$

Chloroform Methanol Extracted Residue: $0.00551\text{g} \pm 0.00002\text{g}$ (20.58%)

Potassium Hydroxide Extracted Residue: $0.02127\text{g} \pm 0.00001\text{g}$ (79.42%)

Total Extracted Residue: $0.02678\text{g} \pm 0.00002\text{g}$

Chloroform Methanol Extraction Yield: 2.24mg/g

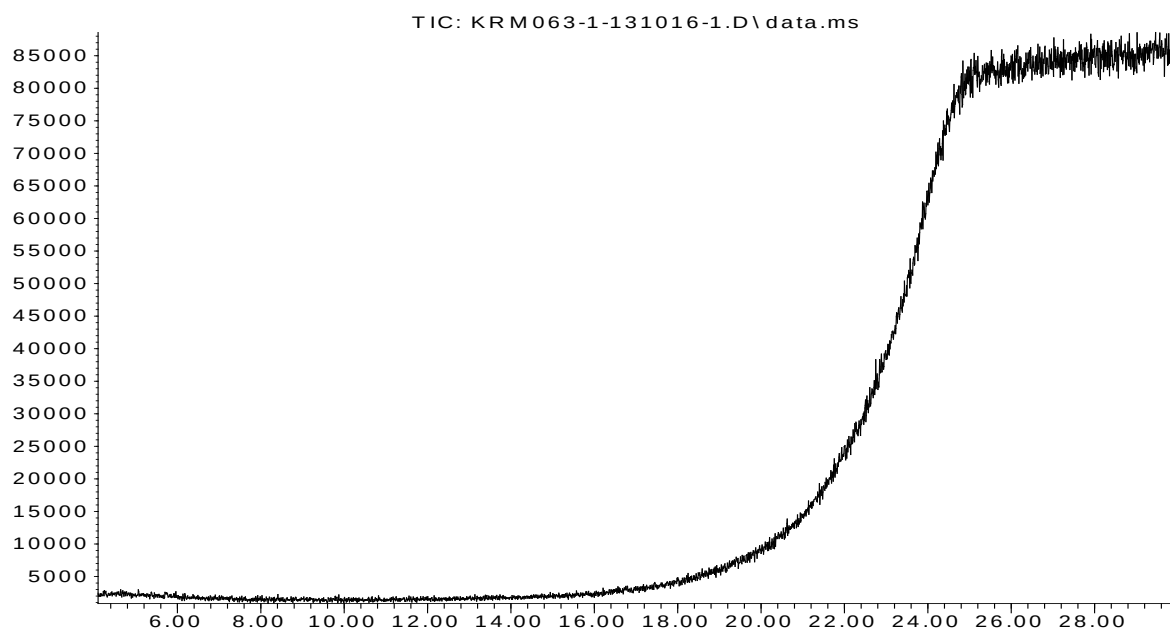
Potassium Hydroxide Extraction Yield: 8.75mg/g

Total Yield: 10.88mg/g

Cross-Reference:

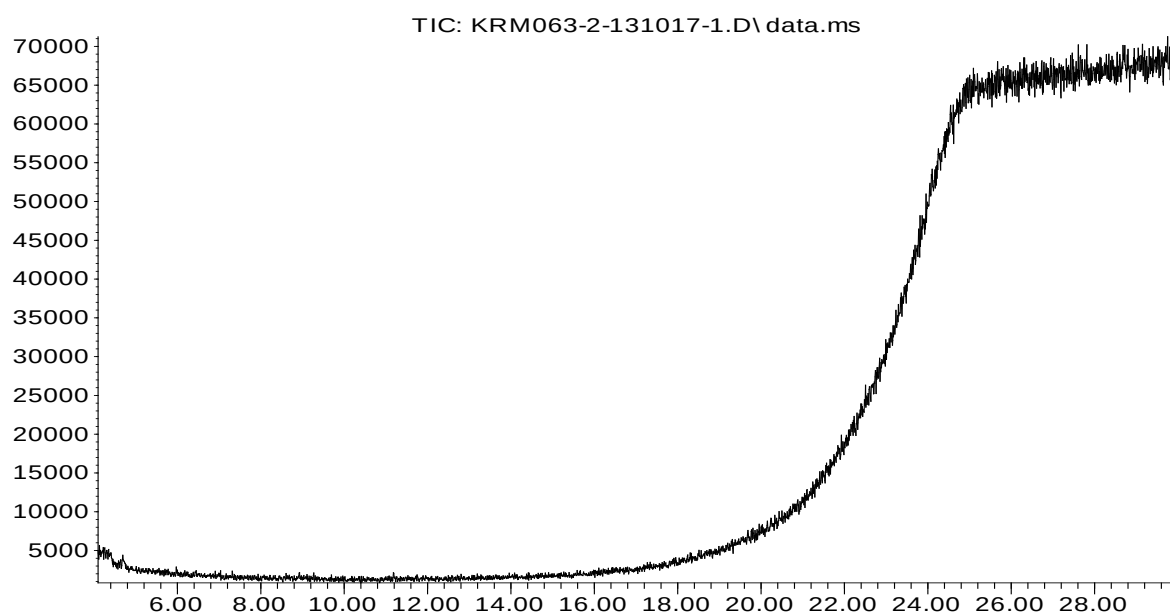
Locus: 066 (associated vessel)

Abundance



SAMPLE KRM063-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM063-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 064

Megiddo, Israel. 2010. Early Bronze Age. Area J, locus 10/J/069, pottery bucket 2, lab 7.
Burial in the temple complex. Sherd from juglet.

Sherd Weight: $6.12834\text{g} \pm 0.00001\text{g}$

Sherd Thickness: $5.42\text{mm} \pm 0.01\text{mm}$

Chloroform Methanol Extracted Residue: $0.00543\text{g} \pm 0.00001\text{g}$ (99.09%)

Potassium Hydroxide Extracted Residue: $0.00005\text{g} \pm 0.00001\text{g}$ (0.91%)

Total Extracted Residue: $0.00548\text{g} \pm 0.00001\text{g}$

Chloroform Methanol Extraction Yield: 0.89mg/g

Potassium Hydroxide Extraction Yield: insignificant

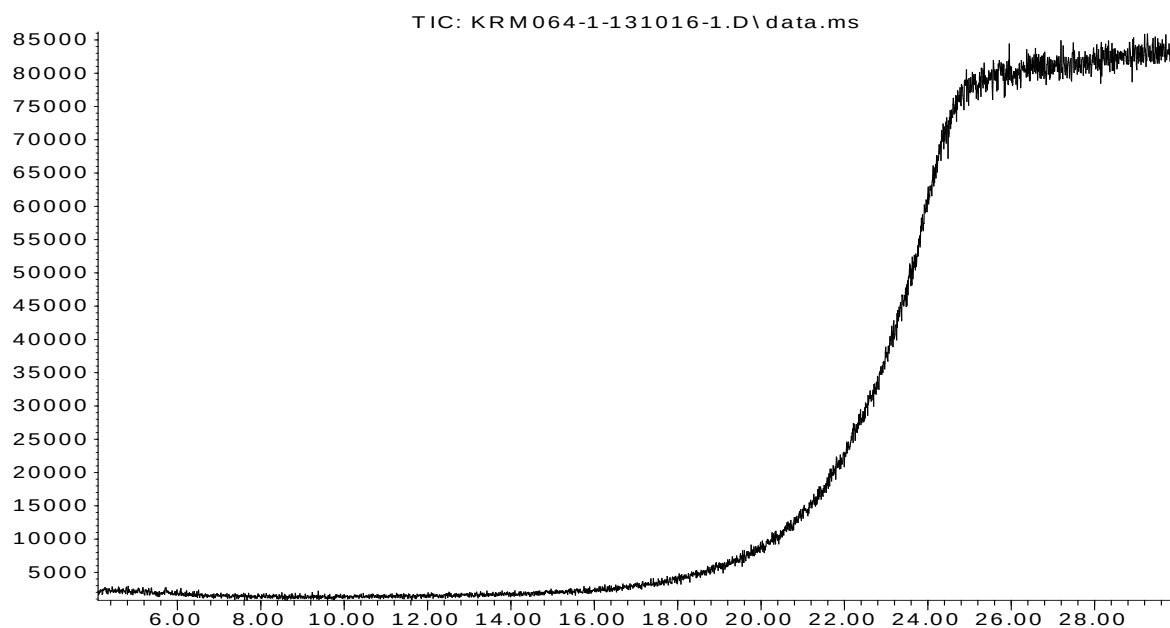
Total Yield: 0.89mg/g

Cyclosiloxanes

Cross-Reference:

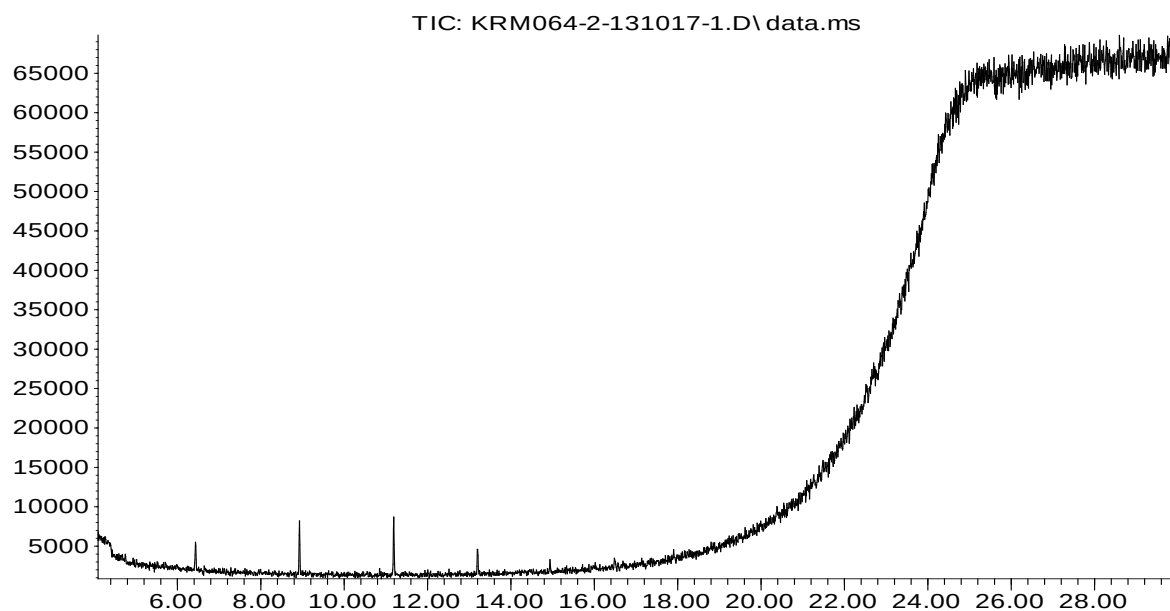
Locus: 065 (associated vessel)

Abundance



SAMPLE KRM064-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM064-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes

KRM 065

Megiddo, Israel. 2010. Early Bronze Age. Area J, locus 10/J/069, pottery bucket 3, lab 8.
Burial in the temple complex. Sherd from juglet.

Sherd Weight: 6.05411g $\pm$ 0.00001g

Sherd Thickness: 8.98mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00591g $\pm$ 0.00001g (98.83%)

Potassium Hydroxide Extracted Residue: 0.00007g $\pm$ 0.00001g (1.17%)

Total Extracted Residue: 0.00598g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.98mg/g

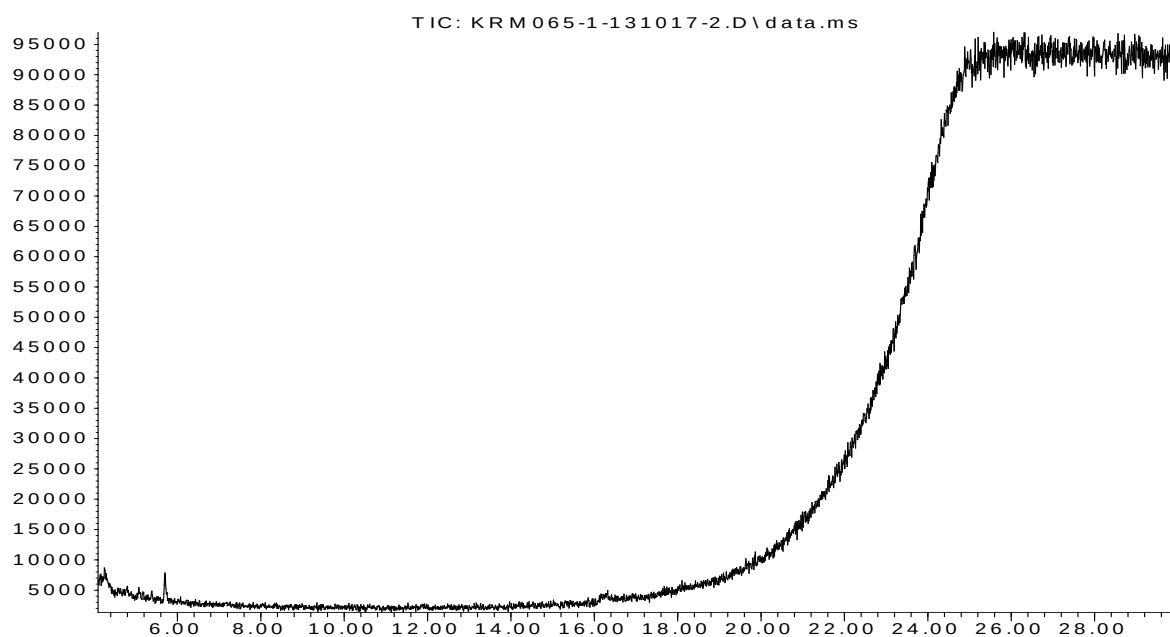
Potassium Hydroxide Extraction Yield: 0.01mg/g

Total Yield: 0.99mg/g

Cross Reference:

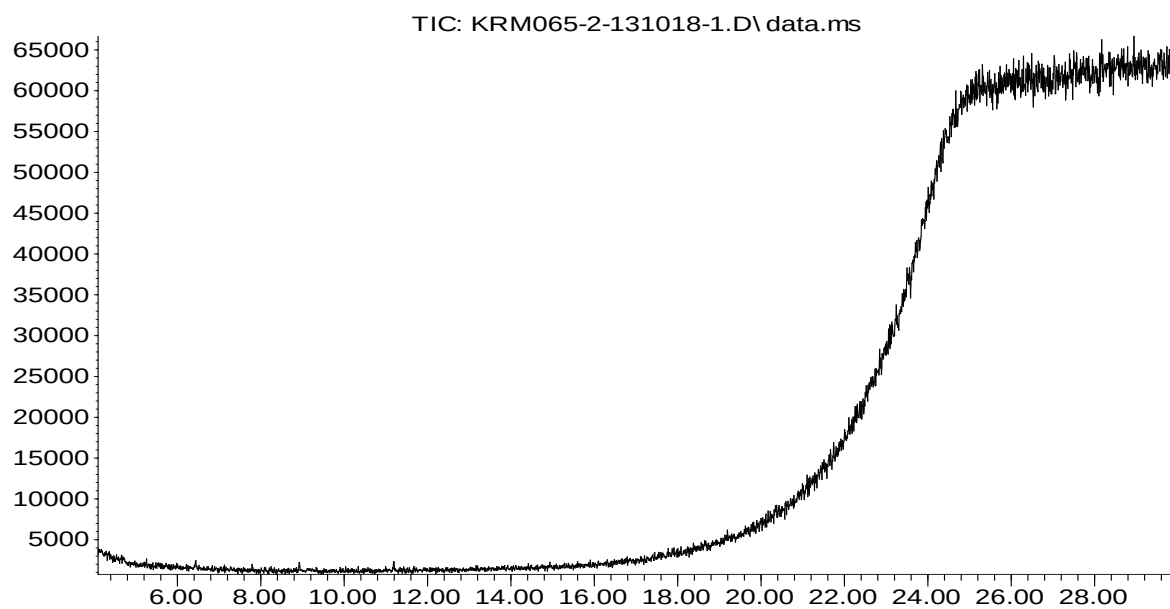
Locus: 064 (associated vessel)

Abundance



SAMPLE KRM065-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM065-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 066

Megiddo, Israel. 2010. Early Bronze Age. Area J, locus 10/J/113, pottery bucket 4, lab 14.
Burial in the temple complex. Sherd from a globular juglet.

Sherd Weight: 4.88163g $\pm$ 0.00001g

Sherd Thickness: 4.49mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00273g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00273g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.56mg/g

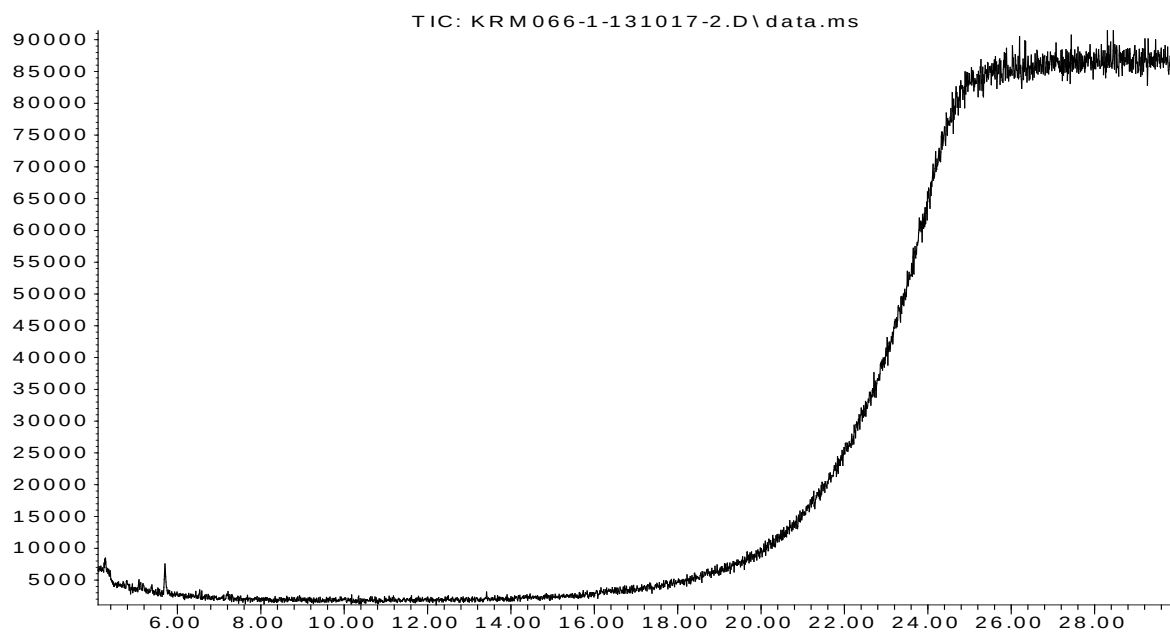
Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.56mg/g

Cross Reference:

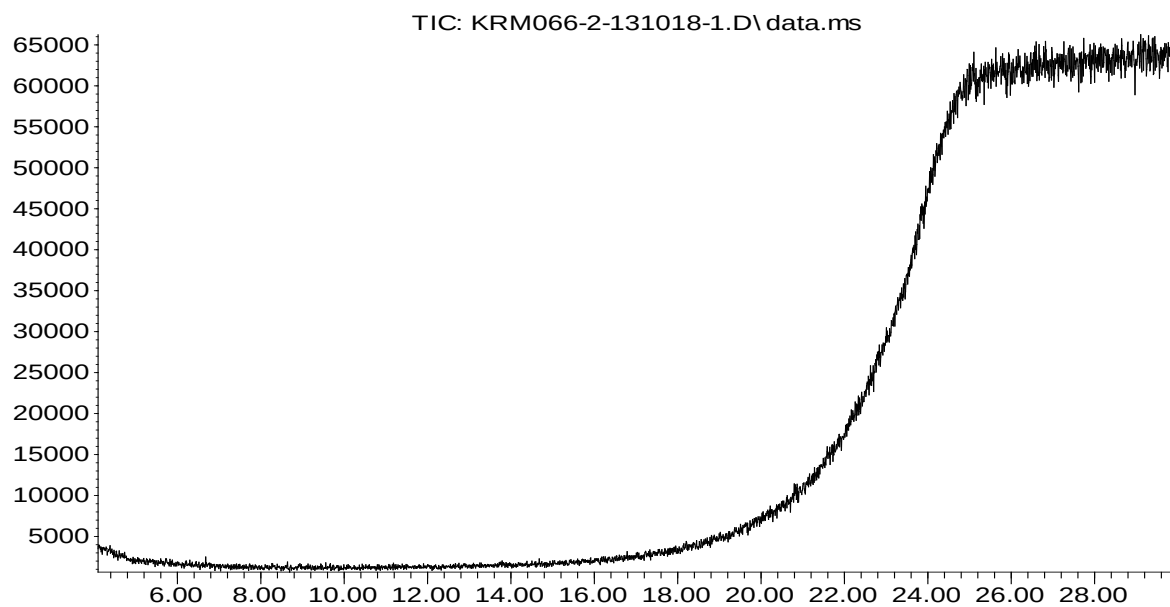
Locus: 063 (associated vessel)

Abundance



SAMPLE KRM066-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM066-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 067

Megiddo, Israel. 2010. Early Bronze Age. Area J, locus 10/J/025, pottery bucket 6, lab 10.
Burial in the temple complex. Sherd from a juglet.

Sherd Weight: 13.54453g $\pm$ 0.00001g

Sherd Thickness: 9.76mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00503g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

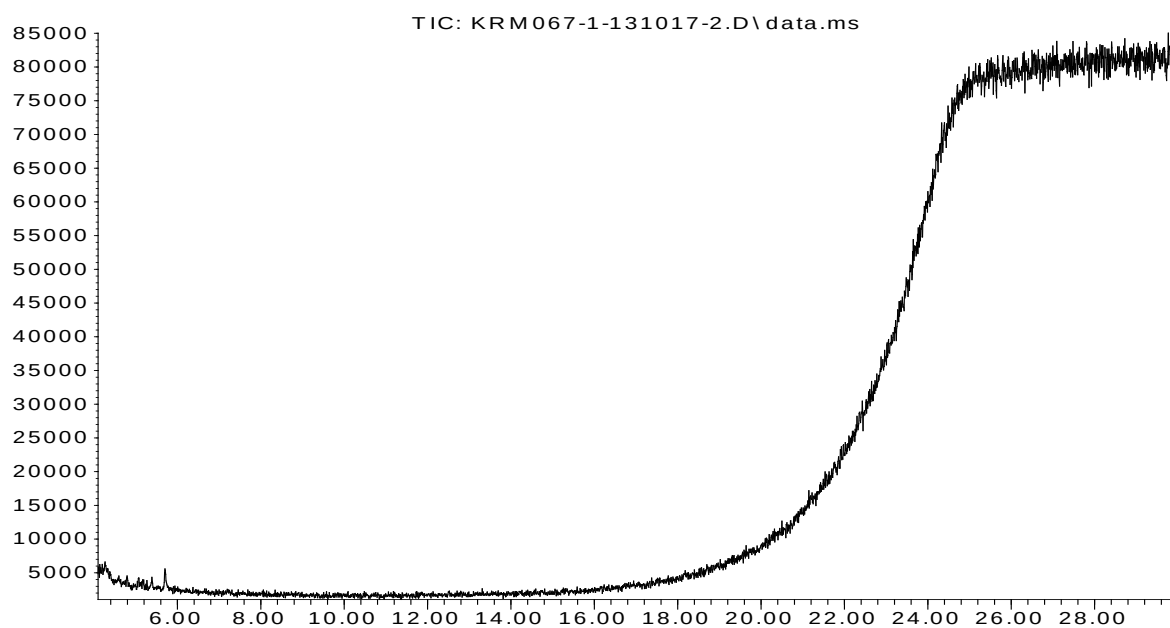
Total Extracted Residue: 0.00503g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.37mg/g

Potassium Hydroxide Extraction Yield: insignificant

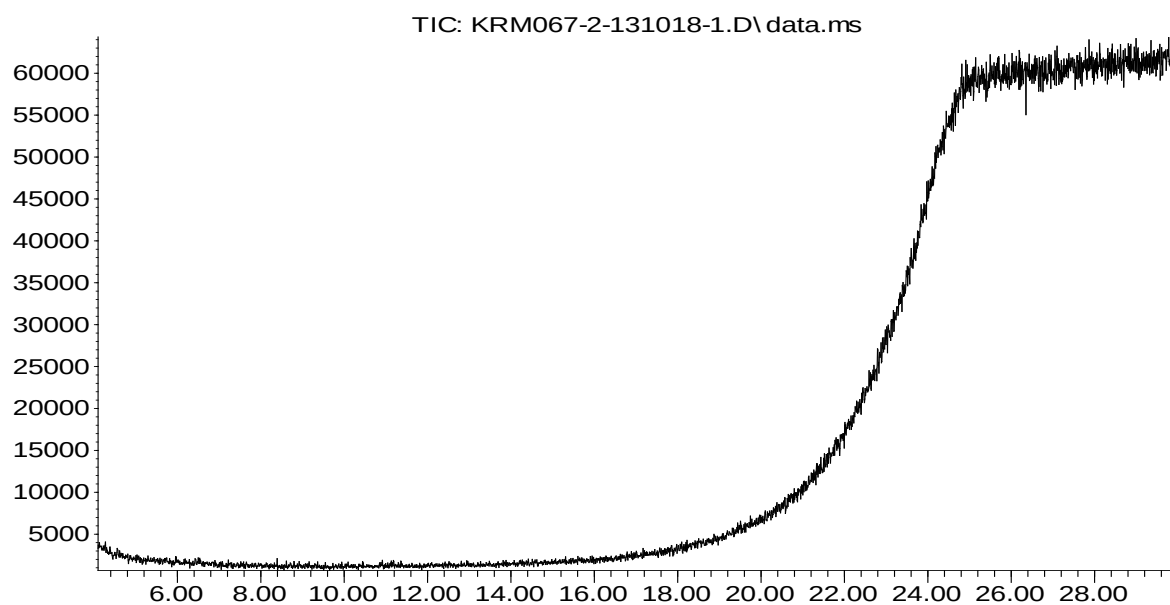
Total Yield: 0.37mg/g

Abundance



SAMPLE KRM067-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM067-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 068

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 16, lab 35. Pottery cache/pit in a domestic context. Painted body sherd.

Sherd Weight: 7.57228g $\pm$ 0.00001g

Sherd Thickness: 5.13mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00685g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00685g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.90mg/g

Potassium Hydroxide Extraction Yield: insignificant

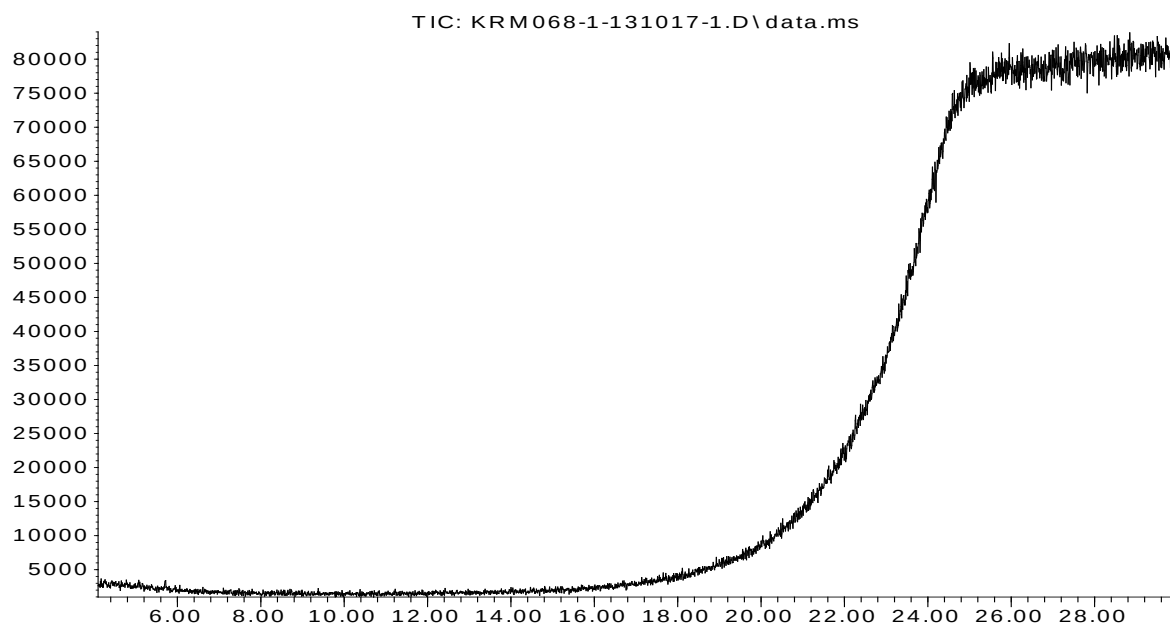
Total Yield: 0.90mg/g

Cross References:

Vessel: 069, 070, 071

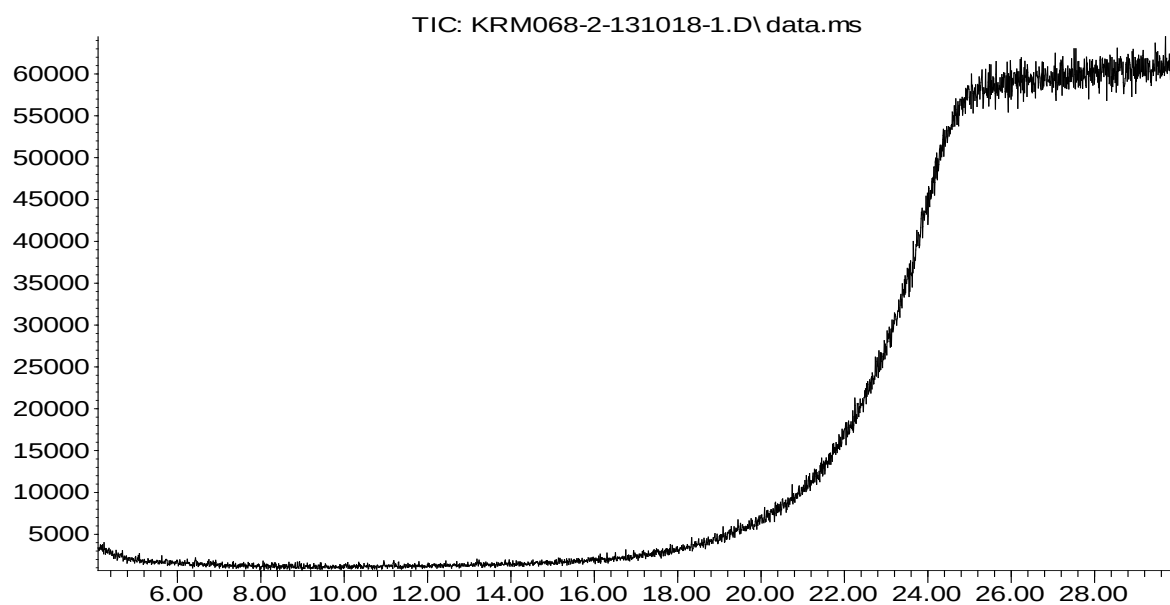
Locus: 013, 074, 075, 077, 078, 079

Abundance



SAMPLE KRM068-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM068-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 069

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 16, lab 35. Pottery cache/pit in a domestic context. Painted body sherds.

Sherd Weight: 9.89539g $\pm$ 0.00001g

Sherd Thickness: 7.27mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00331g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00331g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.33mg/g

Potassium Hydroxide Extraction Yield: insignificant

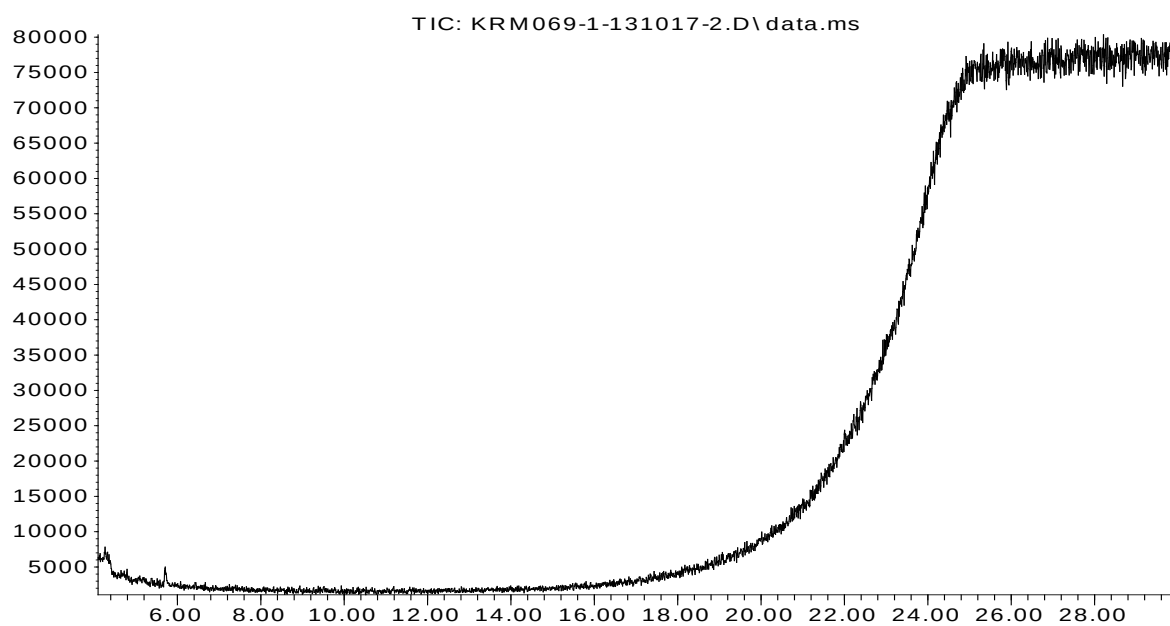
Total Yield: 0.33mg/g

Cross-References:

Vessel: 068, 070, 071

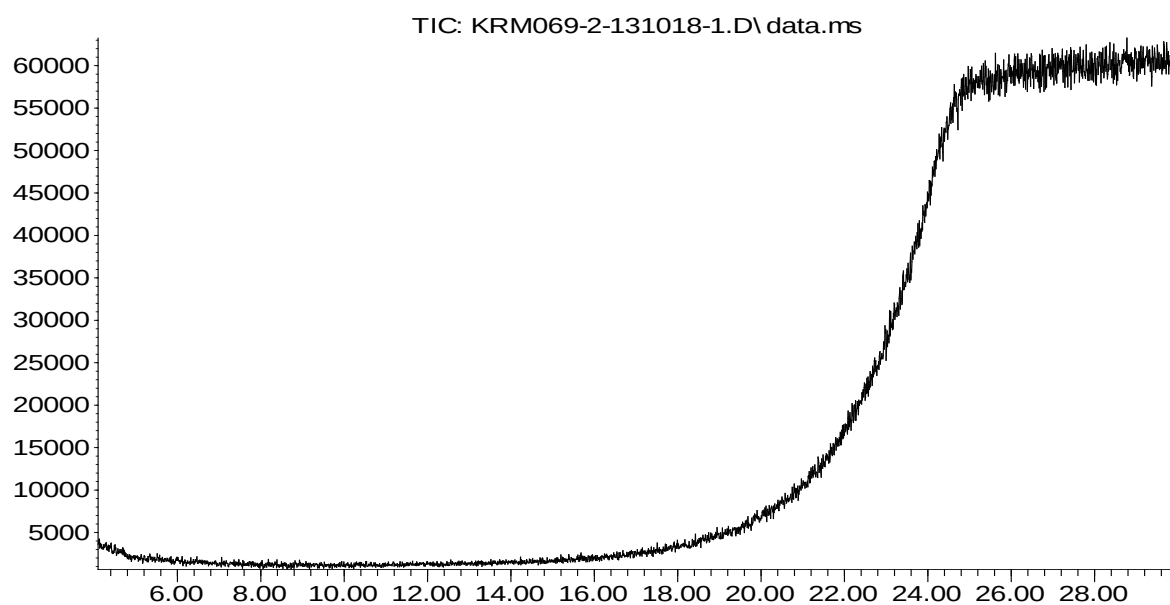
Locus: 013, 074, 075, 077, 078, 079

Abundance



SAMPLE KRM069-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM069-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 070

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 16, lab 35. Pottery cache/pit in a domestic context. Painted rim sherds.

Sherd Weight: 17.81692g $\pm$ 0.00001g

Sherd Thickness: 7.56mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00660g $\pm$ 0.00003g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00660g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 0.37mg/g

Potassium Hydroxide Extraction Yield: insignificant

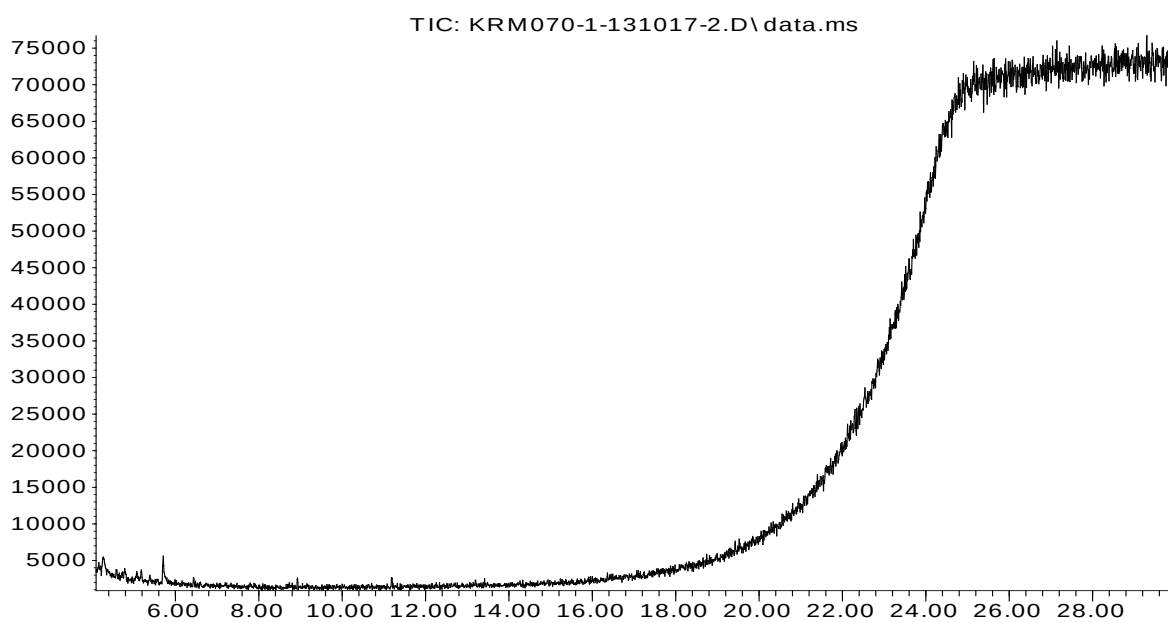
Total Yield: 0.37mg/g

Cross-References:

Vessel: 068, 069, 071

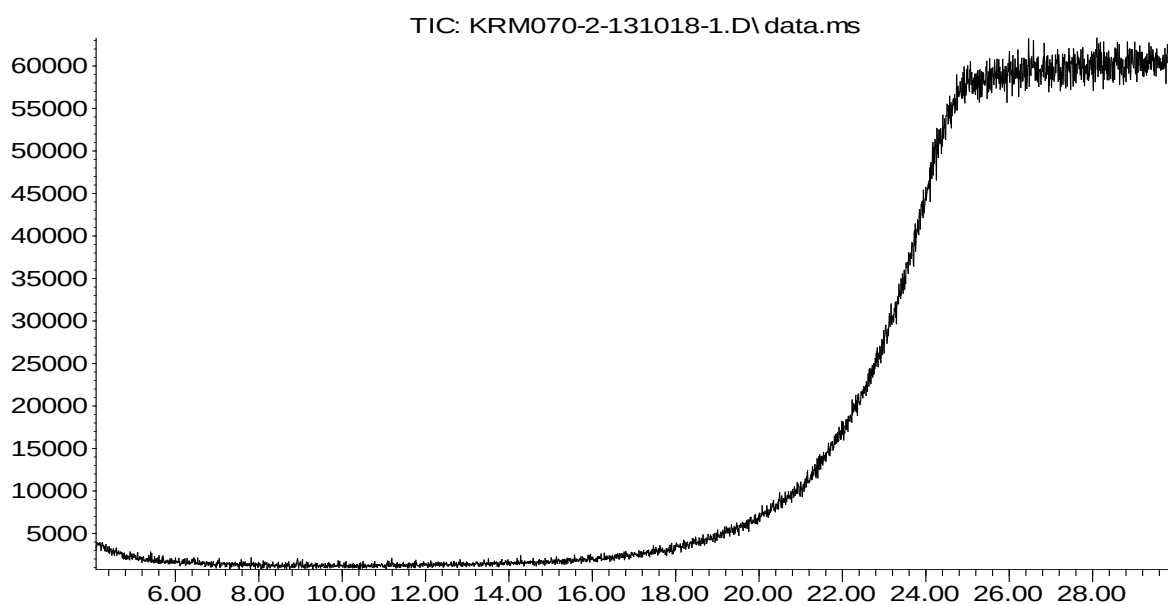
Locus: 013, 074, 075, 077, 078, 079

Abundance



SAMPLE KRM070-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM070-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 071

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 16, lab 35. Pottery cache/pit in a domestic context. Painted shoulder sherd.

Sherd Weight: 10.58348g $\pm$ 0.00002g

Sherd Thickness: 7.15mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00223g $\pm$ 0.00002g (38.18%)

Potassium Hydroxide Extracted Residue: 0.00361g $\pm$ 0.00001g (61.82%)

Total Extracted Residue: 0.00584g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.21mg/g

Potassium Hydroxide Extraction Yield: 0.34mg/g

Total Yield: 0.55mg/g

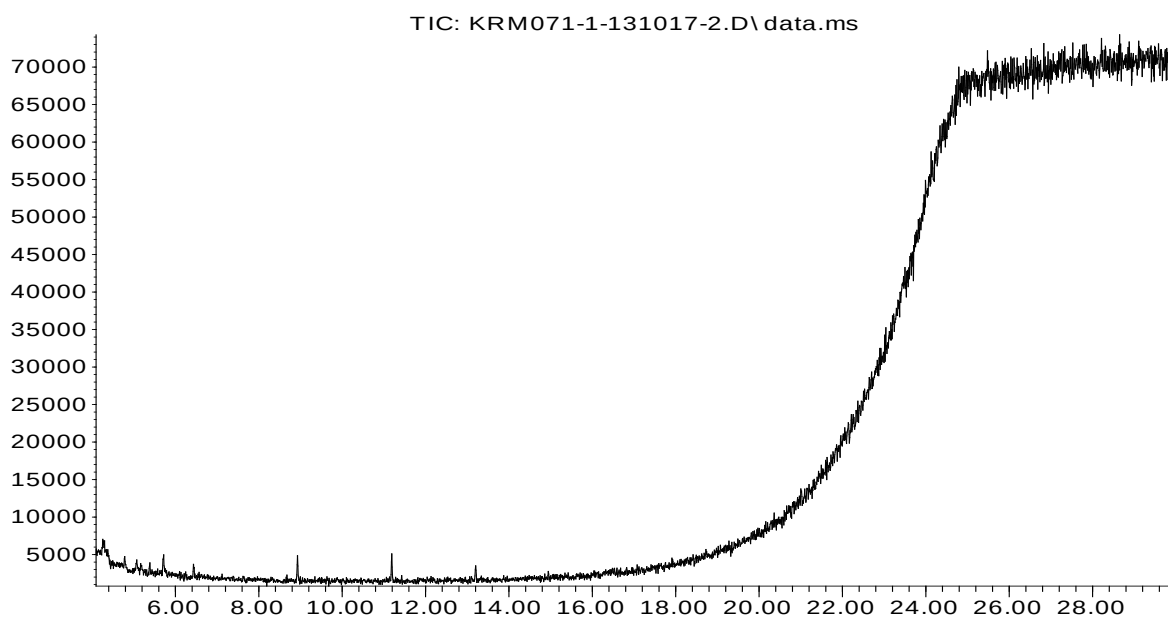
Siloxanes

Cross-References:

Vessel: 068, 069, 070

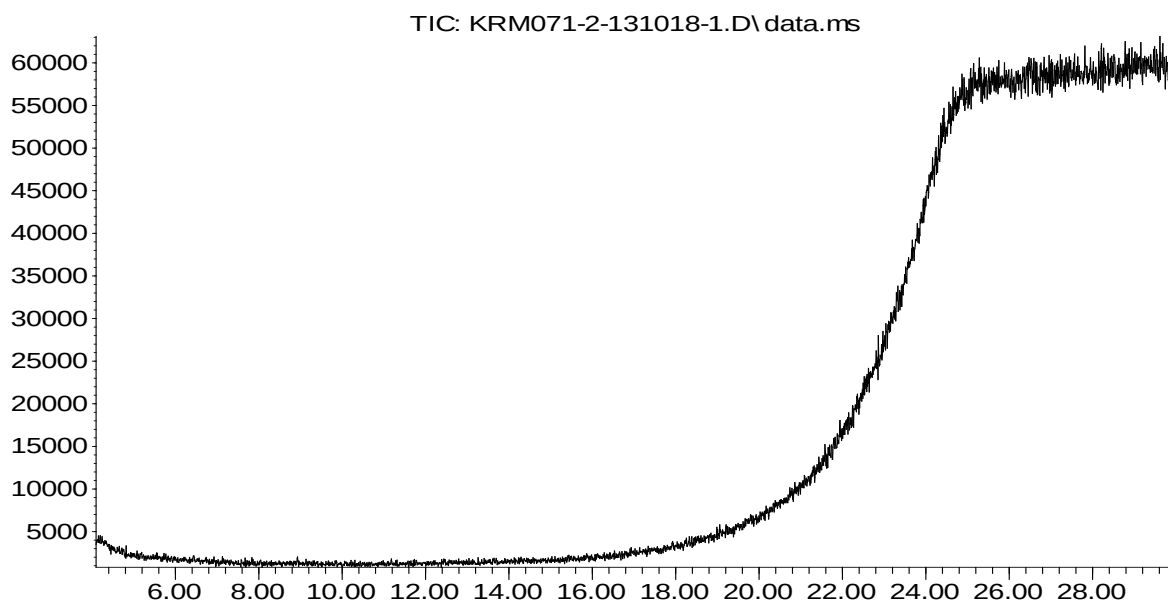
Locus: 013, 074, 075, 077, 078, 079

Abundance



SAMPLE KRM071-001: Chloroform/Methanol Extraction and FAME Derivatistation
All Siloxanes

Abundance



SAMPLE KRM071-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 072

Megiddo, Israel. 2010. Middle Bronze Age II. Area K, locus 10/K/118, pottery bucket 2, lab 4. Burial in a domestic context. Shoulder sherd of a pithos.

Sherd Weight: 5.04850g $\pm$ 0.00001g

Sherd Thickness: 7.20mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00386g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00386g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.76mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.76mg/g

Major Peak:

Siloxanes

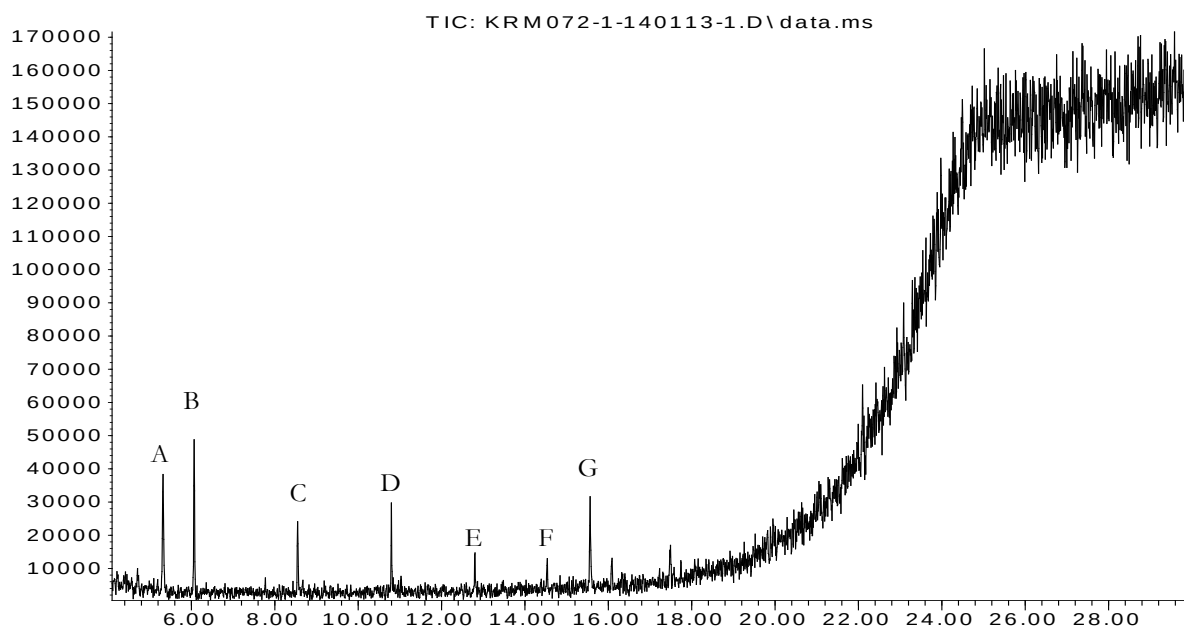
Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

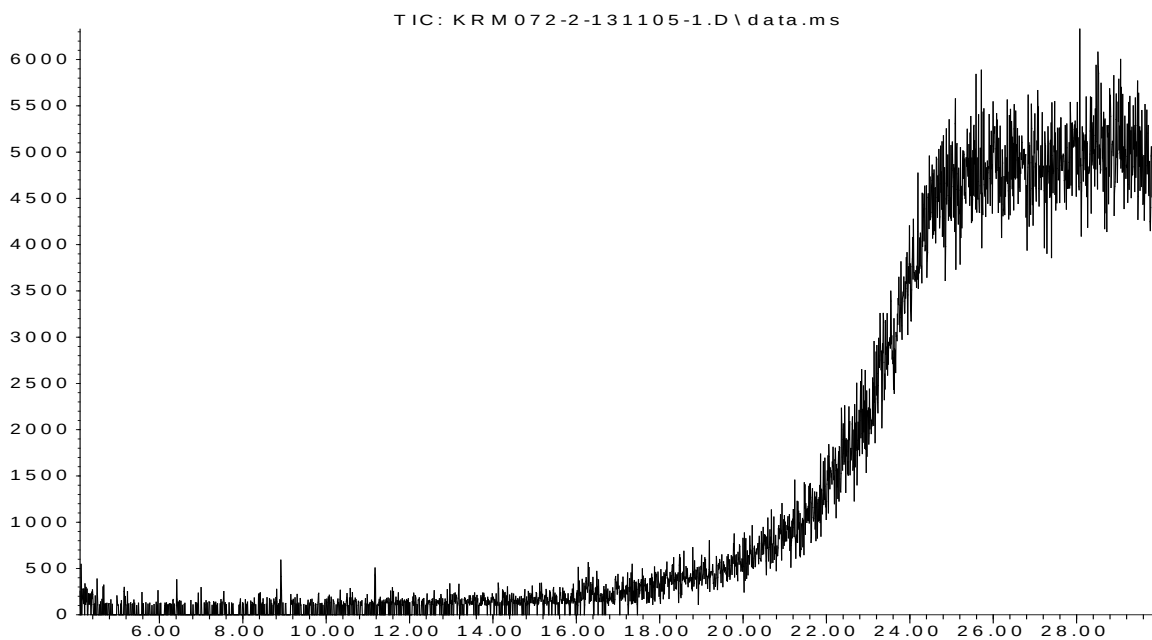
Undecane

Abundance

**SAMPLE KRM072-001: Chloroform/Methanol Extraction and FAME Derivatistation**

A) Undecane B-F) Siloxanes G) Hexadecanoic Acid, Methyl Ester

Abundance

**SAMPLE KRM072-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

KRM 073

Megiddo, Israel. 2010. Late Bronze Age I. Area K, locus 10/K/029, pottery bucket 10.
Domestic context. Body sherd.

Sherd Weight: 15.88996g $\pm$ 0.00001g

Sherd Thickness: 10.48mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00763g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

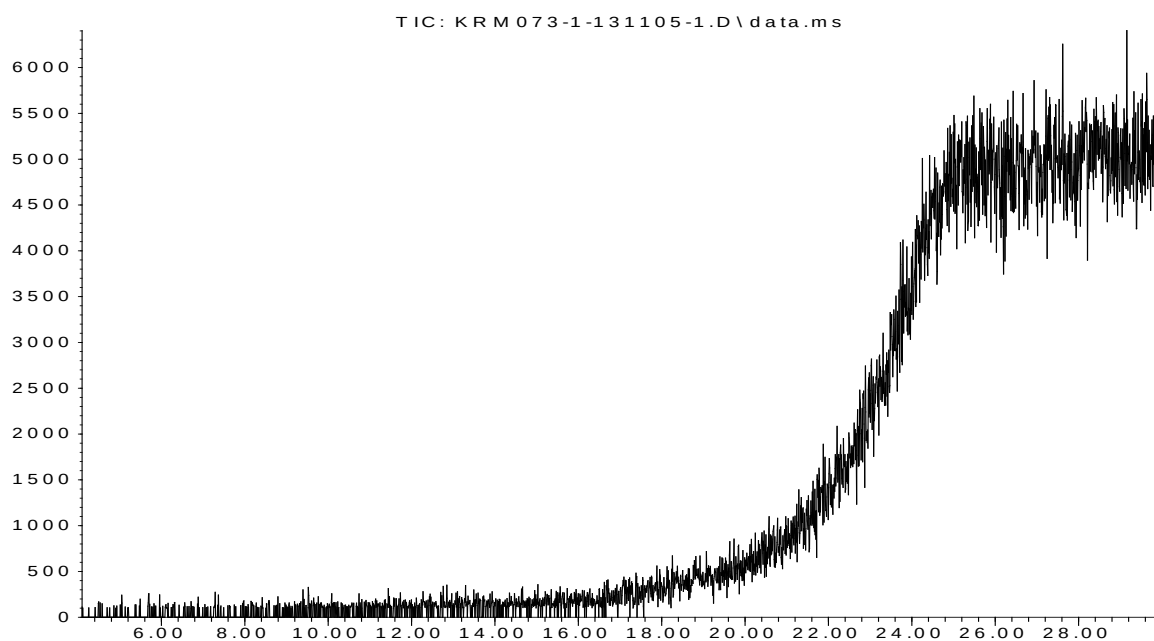
Total Extracted Residue: 0.00763g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.48mg/g

Potassium Hydroxide Extraction Yield: insignificant

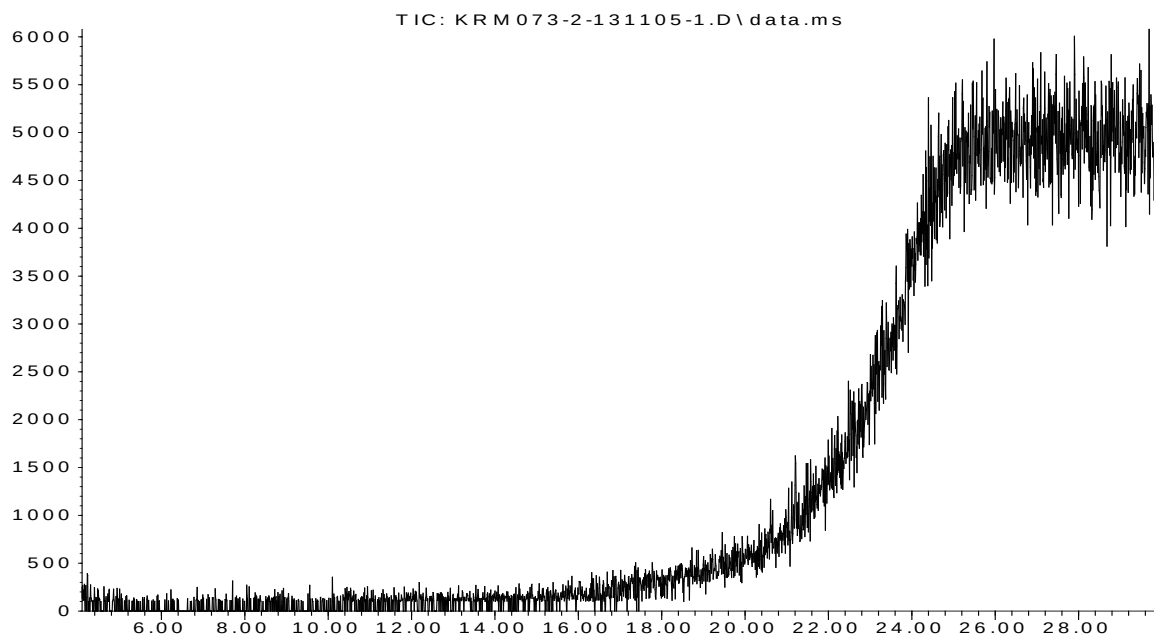
Total Yield: 0.48mg/g

Abundance



SAMPLE KRM073-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM073-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 074

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 11, lab 31, vessel 4. Pottery cache/pit in a domestic context. Body sherd of a painted jar.

Sherd Weight: 7.56089g $\pm$ 0.00001g

Sherd Thickness: 4.58mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00379g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00379g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.50mg/g

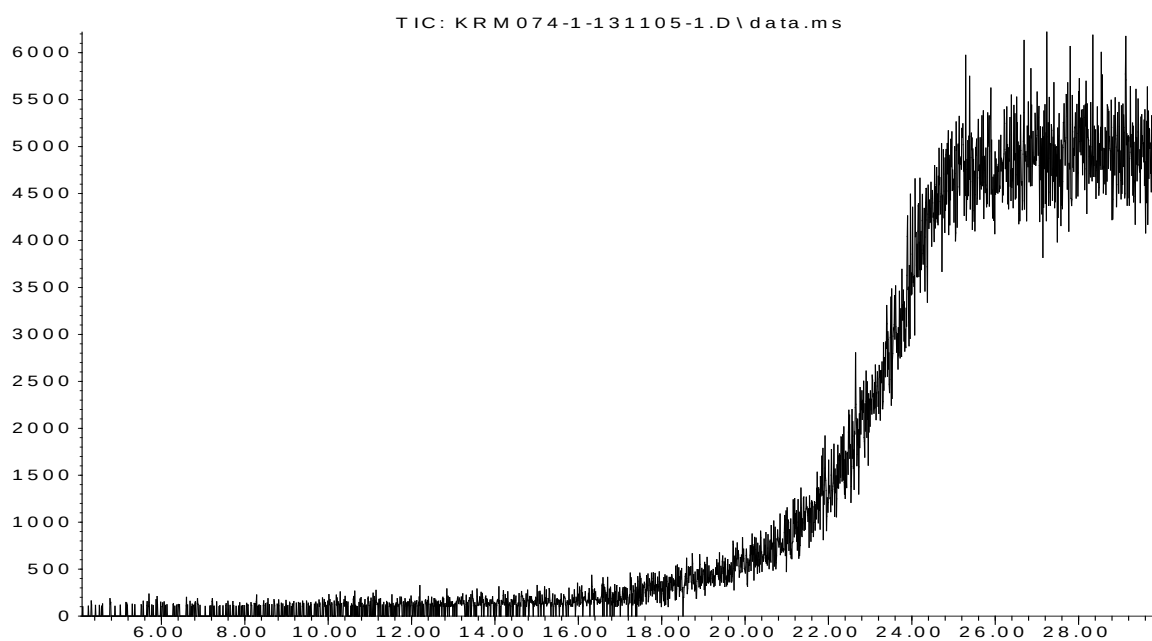
Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.50mg/g

Cross-References:

Locus: 013, 068, 069, 070, 071, 074, 075, 077, 078, 079

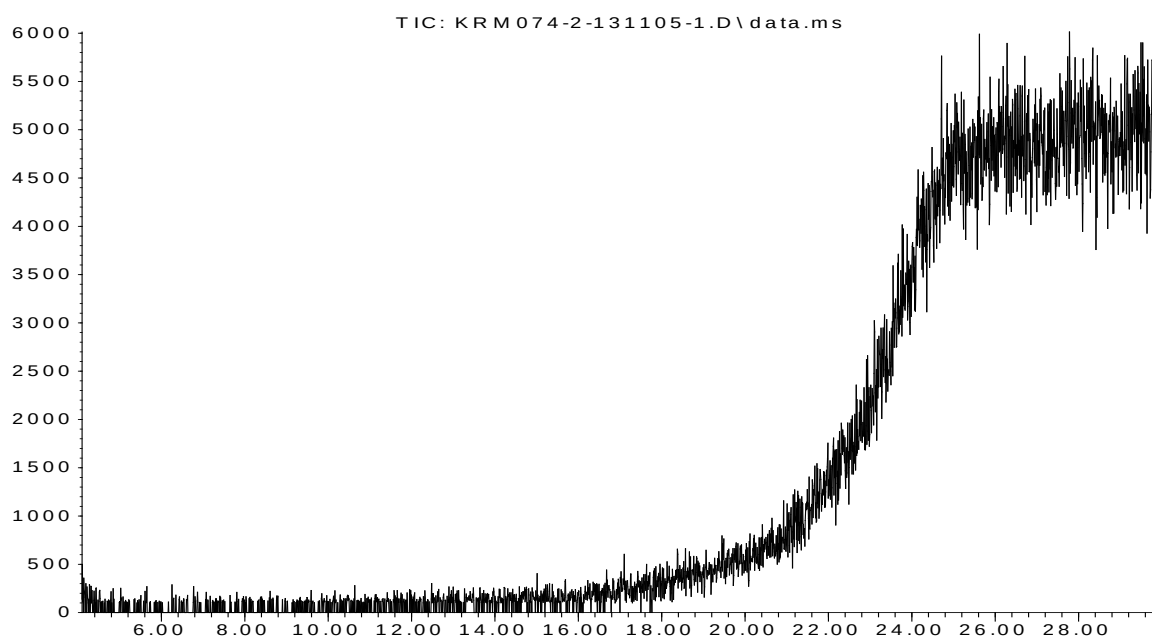
Abundance



Time-->

SAMPLE KRM074-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



Time-->

SAMPLE KRM074-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 075

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 13, lab 34, vessel 14. Pottery cache/pit in a domestic context. Rim of a storage jar.

Sherd Weight: 13.52360g $\pm$ 0.00001g

Sherd Thickness: 5.94mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00637g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00637g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.47mg/g

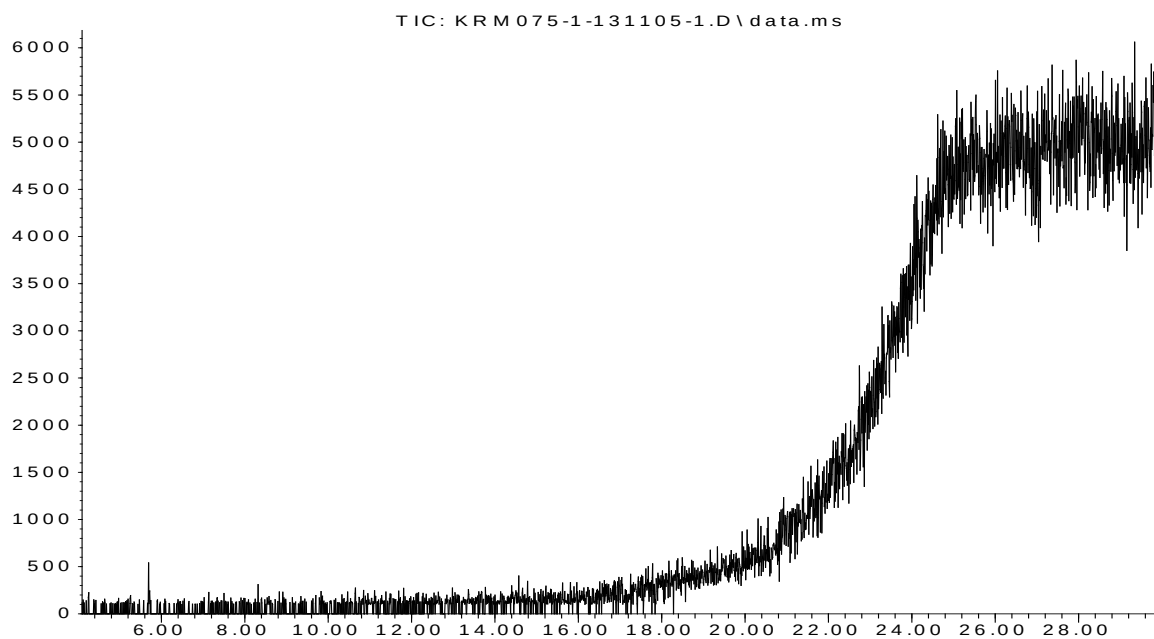
Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.47mg/g

Cross-References:

Locus: 013, 068, 069, 070, 071, 074, 077, 078, 079

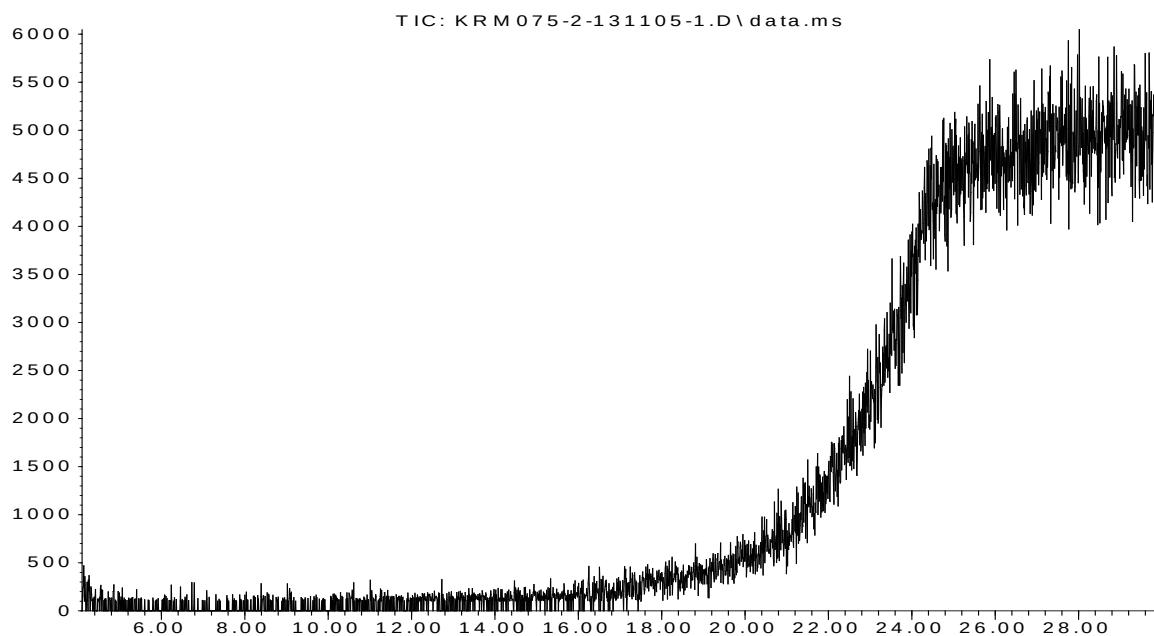
Abundance



Time-->

SAMPLE KRM075-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



Time-->

SAMPLE KRM075-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 076

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 7, lab 28. Burial in a domestic context. Body sherd.

Sherd Weight: 4.12619g $\pm$ 0.00001g

Sherd Thickness: 4.24mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00743g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00743g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.80mg/g

Potassium Hydroxide Extraction Yield: insignificant

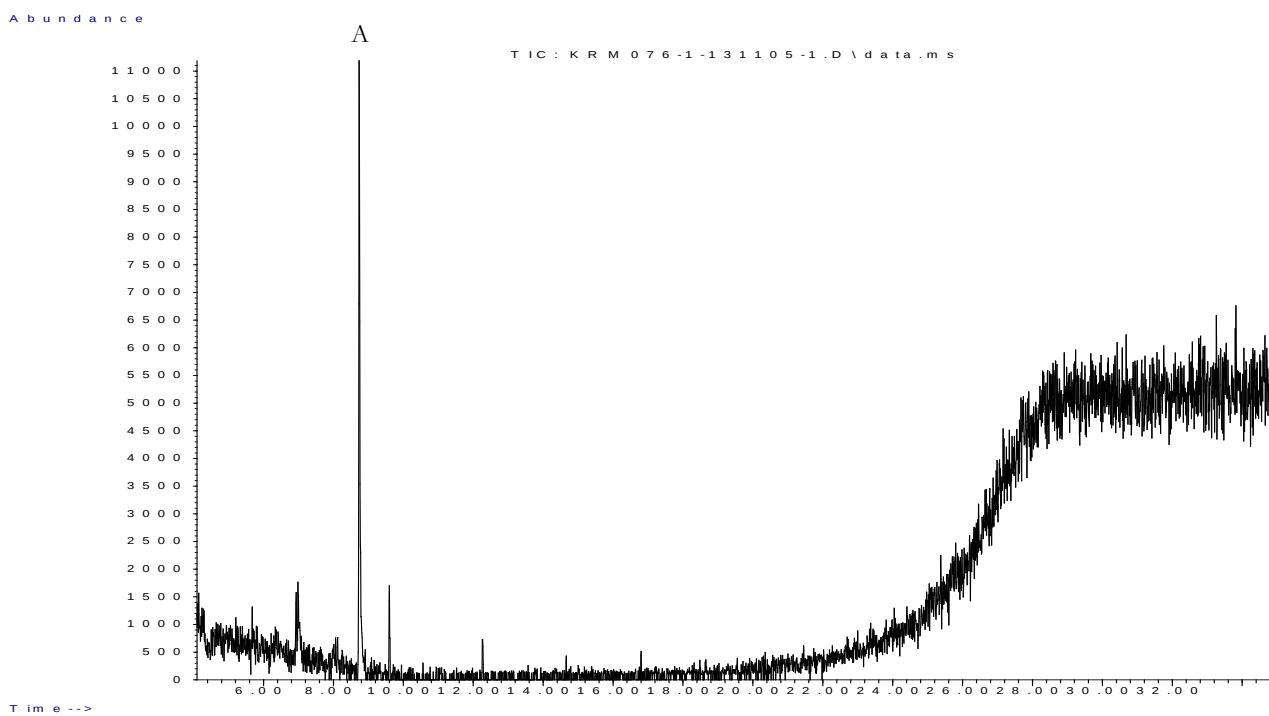
Total Yield: 1.80mg/g

Major Peak:

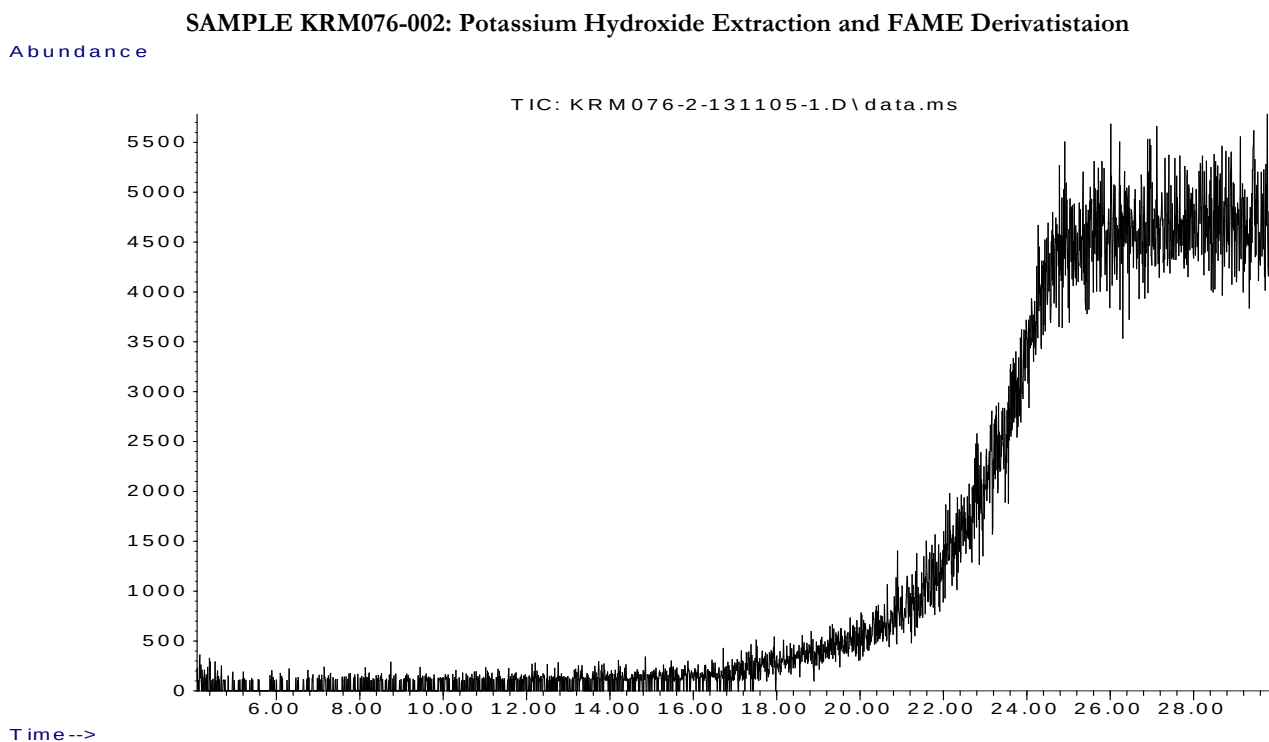
Undecane

Cross-References:

Locus: 080, 081, 082, 083, 084, 085, 086, 087, 088, 089



SAMPLE KRM076-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) undecane. All others siloxane



SAMPLE KRM076-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 077

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 11, lab 030, vessel 3. Pottery cache/pit in a domestic context. Rim from a storage jar.

Sherd Weight: 11.66030g $\pm$ 0.00001g

Sherd Thickness: 6.38mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00359g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00359g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.31mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.31mg/g

Major Peak:

Undecane

Secondary Peak:

Siloxanes

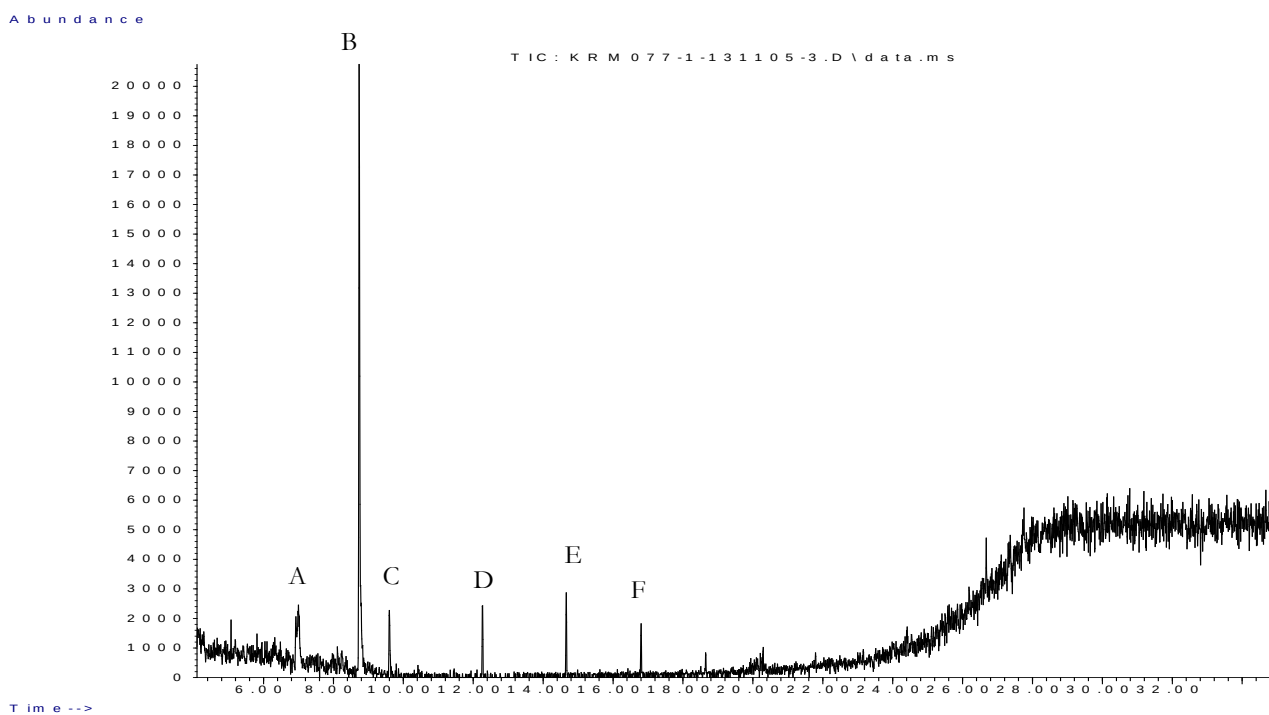
Other Peaks of Note:

Decane

Cross-References:

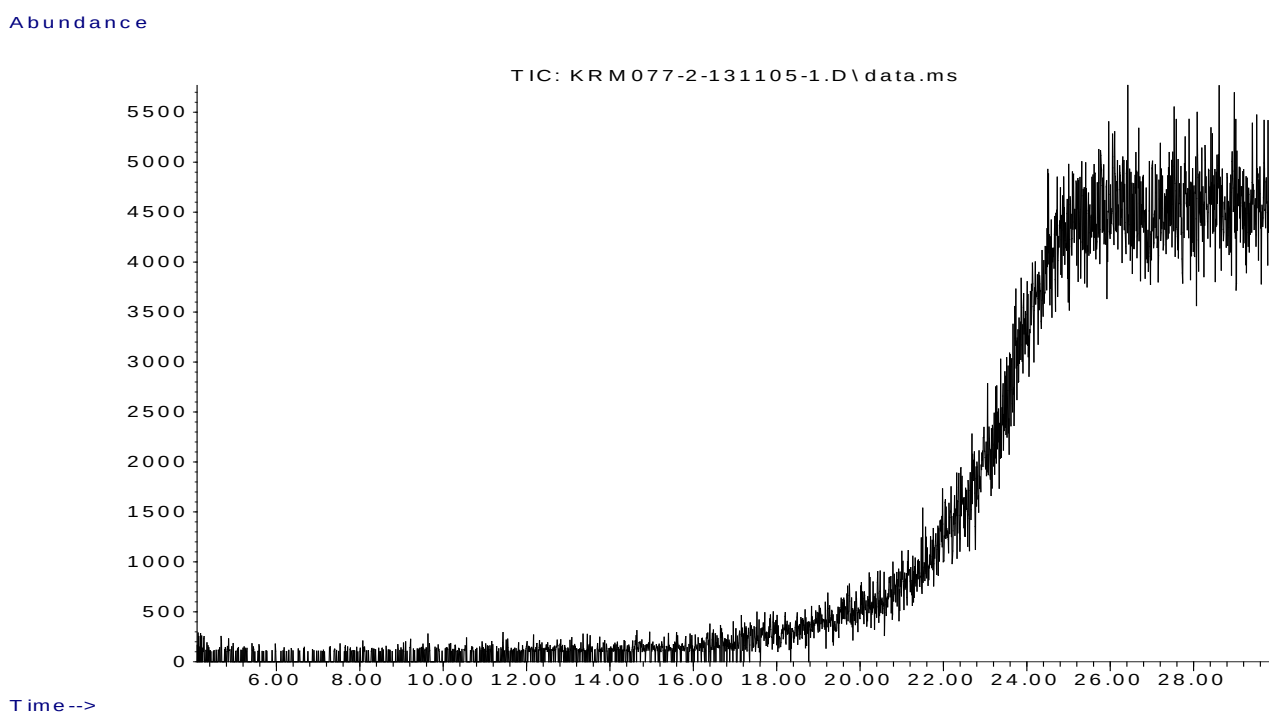
Vessel: 078, 079

Locus: 013, 068, 069, 070, 071, 074, 075



SAMPLE KRM077-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane B) Undecane C) a siloxane



SAMPLE KRM077-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 078

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 11, lab 30, vessel 3. Pottery cache/pit in a domestic context. Body sherd of a storage jar.

Sherd Weight: 9.51652g $\pm$ 0.00001g

Sherd Thickness: 7.80mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00716g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00716g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.75mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.75mg/g

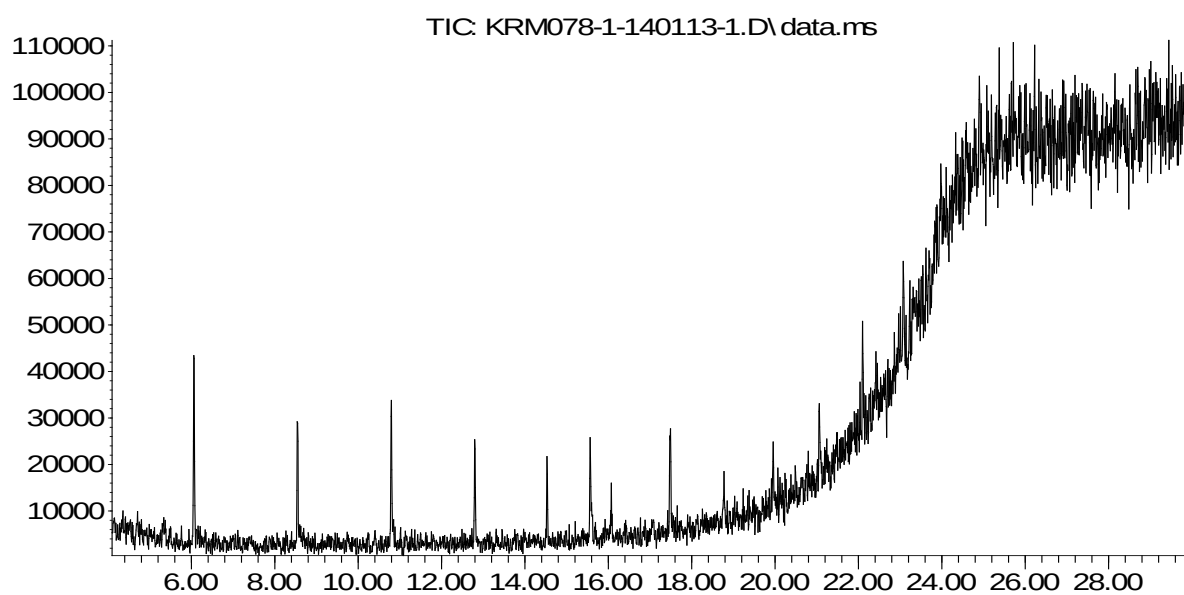
Siloxanes

Cross-References:

Vessel: 077, 079

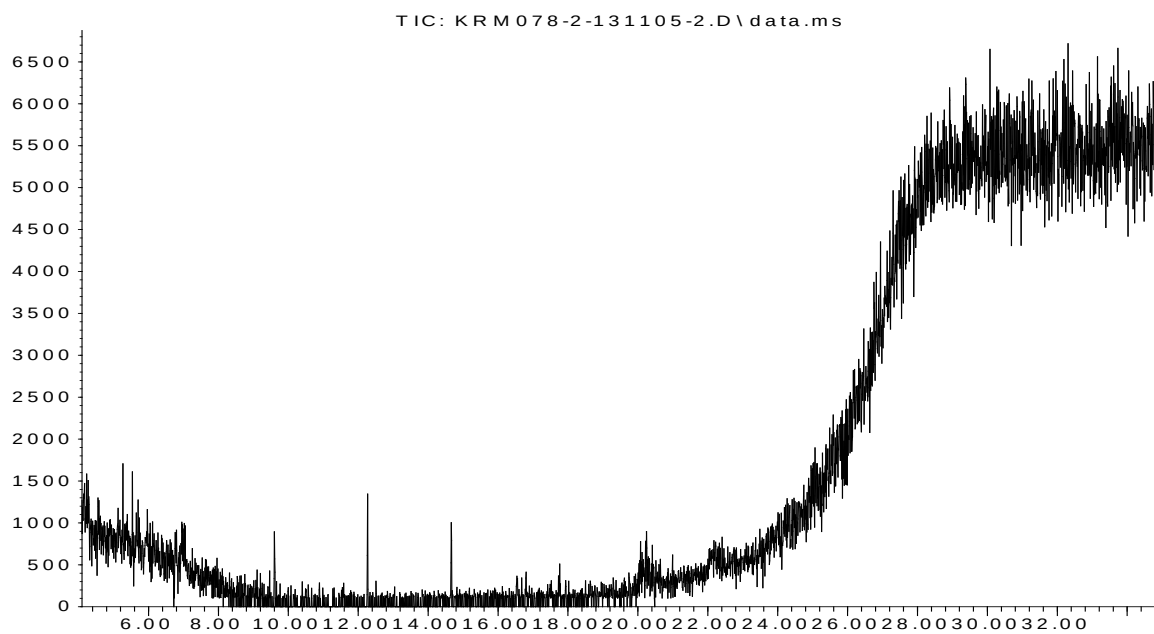
Locus: 013, 068, 069, 070, 071, 074, 075, 077, 079

Abundance



SAMPLE KRM078-001: Chloroform/Methanol Extraction and FAME Derivatistation
Series of siloxanes

Abundance



SAMPLE KRM078-002: Potassium Hydroxide Extraction and FAME Derivatistaion
siloxanes

KRM 079

Megiddo, Israel. 2010. Late Bronze Age II. Area K, locus 10/K/002, pottery bucket 11, lab 30, vessel 3. Pottery cache/pit in a domestic context. Base sherd from a storage jar.

Sherd Weight: 12.13899g $\pm$ 0.00002g

Sherd Thickness: 10.28mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00492g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00492g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.41mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.41mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

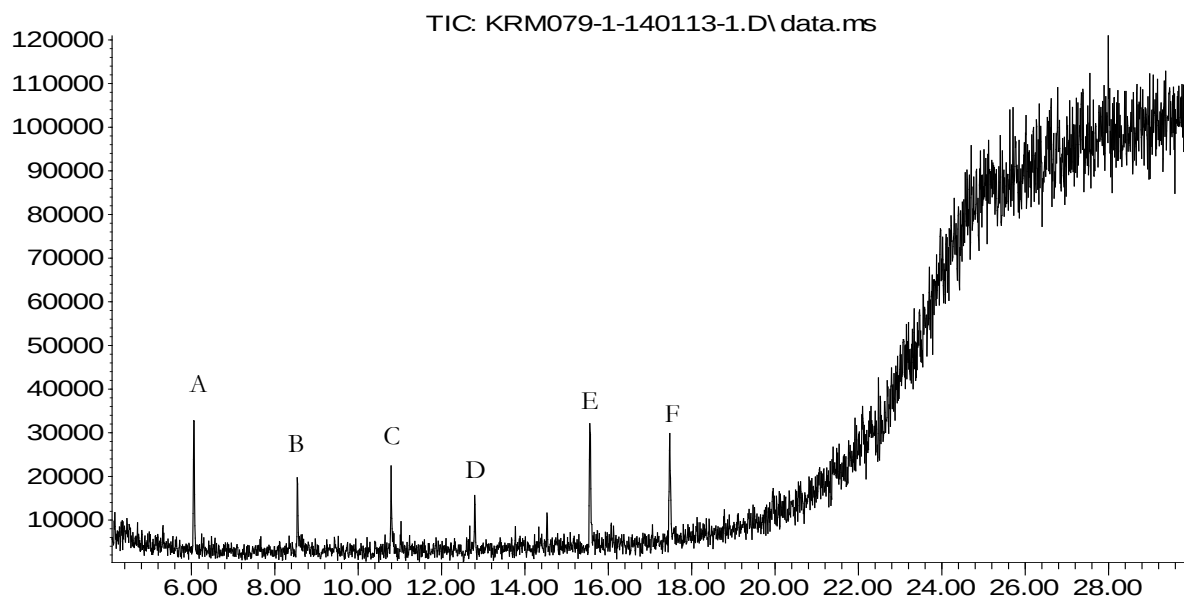
Other Peaks of Note:

Cross-References:

Vessel: 077, 078

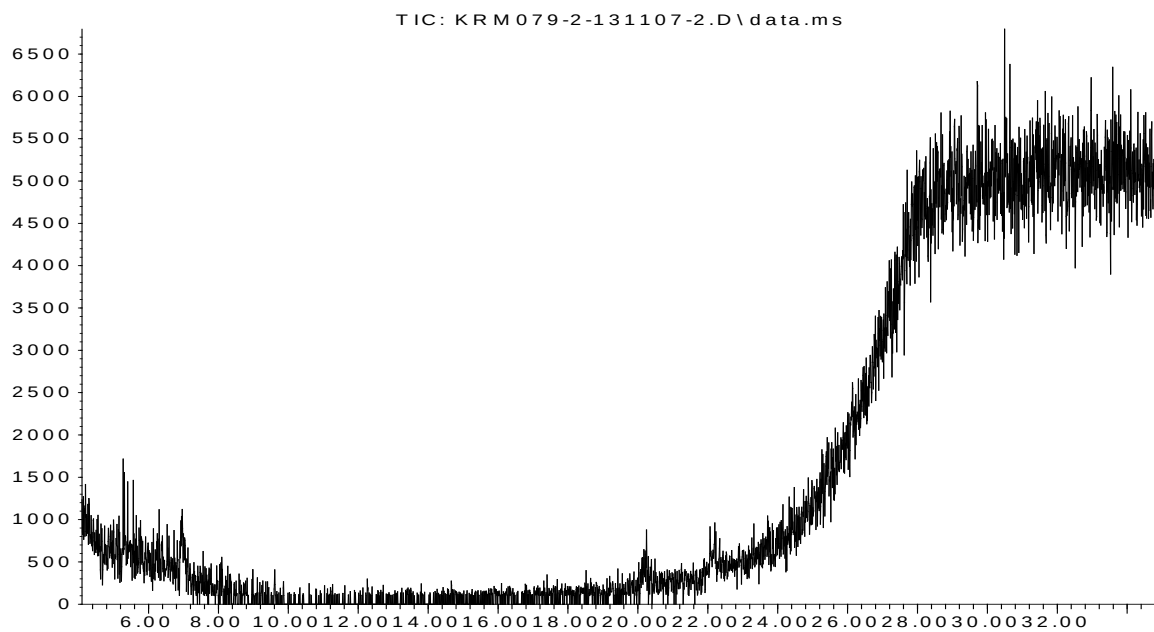
Locus: 013, 068, 069, 070, 071, 074, 075, 077, 078

Abundance



SAMPLE KRM079-001: Chloroform/Methanol Extraction and FAME Derivatistation
A—D) Cyclosiloxanes E) Hexadecanoic Acid, Methyl Ester F) Octadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM079-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 080

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from the southeast corner. .

Sherd Weight: 4.59253g $\pm$ 0.00001g

Sherd Thickness: 4.60mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.02089g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: sample lost

Total Extracted Residue: 0.02089g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 4.55mg/g

Potassium Hydroxide Extraction Yield: sample lost

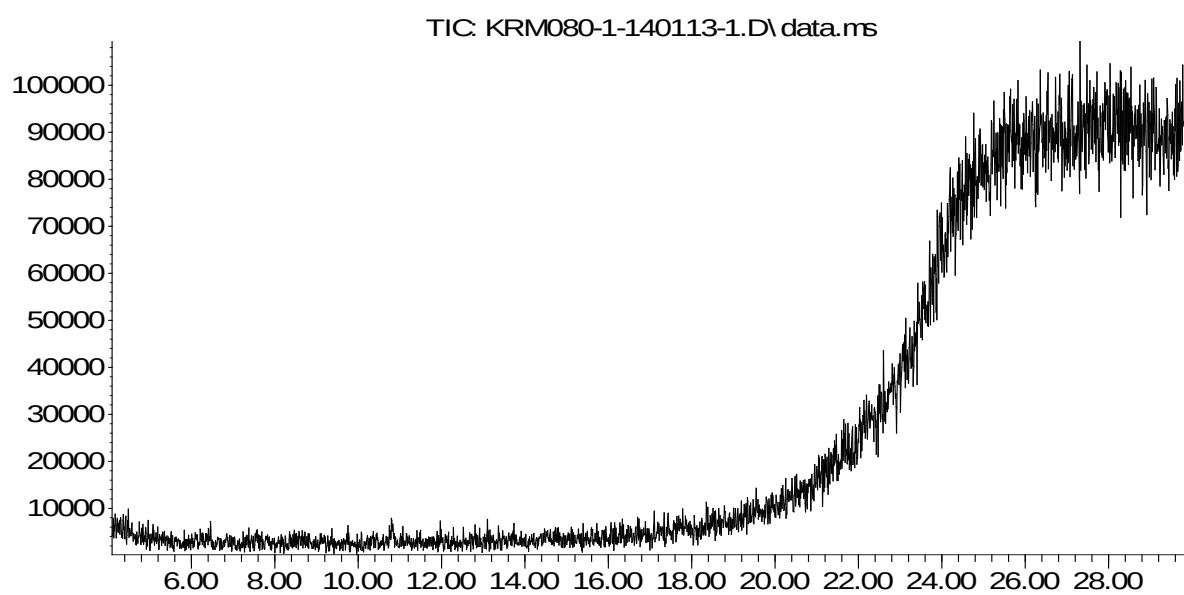
Total Yield: 4.55mg/g

Cross-References:

Vessel: 081, 082, 083, 084, 085, 086

Locus: 076, 087, 088, 089

Abundance



SAMPLE KRM080-001: Chloroform/Methanol Extraction and FAME Derivatistation

KRM 081

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from the south east corner.

Sherd Weight: 3.66947g $\pm$ 0.00001g

Sherd Thickness: 5.00mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00899g $\pm$ 0.00001g (93.84%)

Potassium Hydroxide Extracted Residue: 0.00059g $\pm$ 0.00001g (6.16%)

Total Extracted Residue: 0.00958g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 2.45mg/g

Potassium Hydroxide Extraction Yield: 0.17mg/g

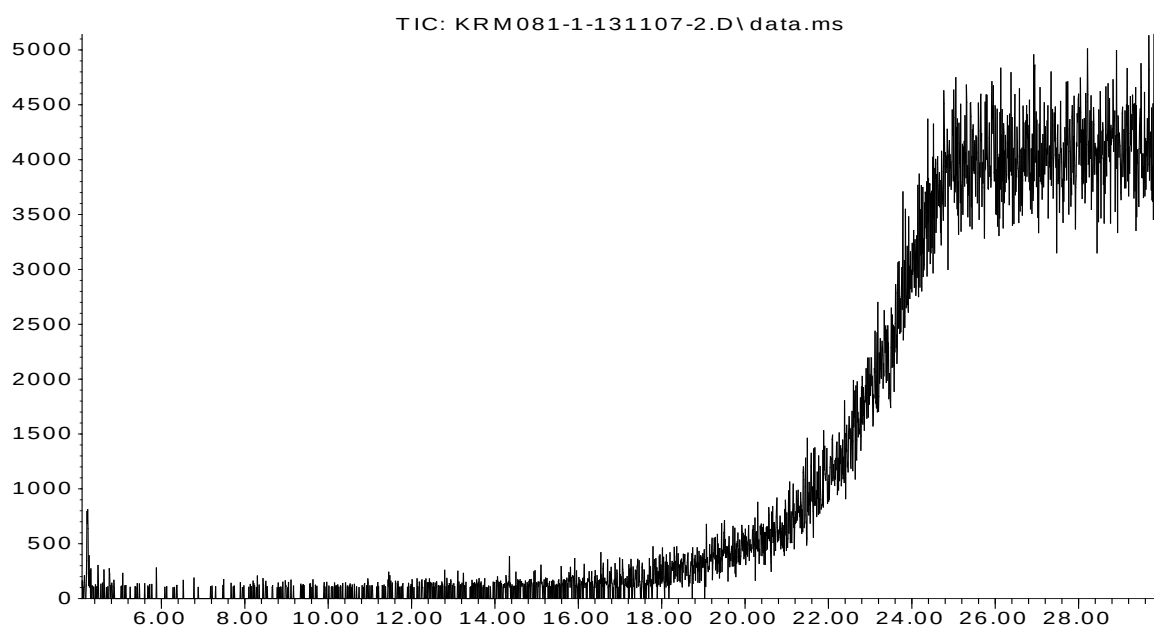
Total Yield: 2.61mg/g

Cross-References:

Vessel: 080, 082, 083, 084, 085, 086

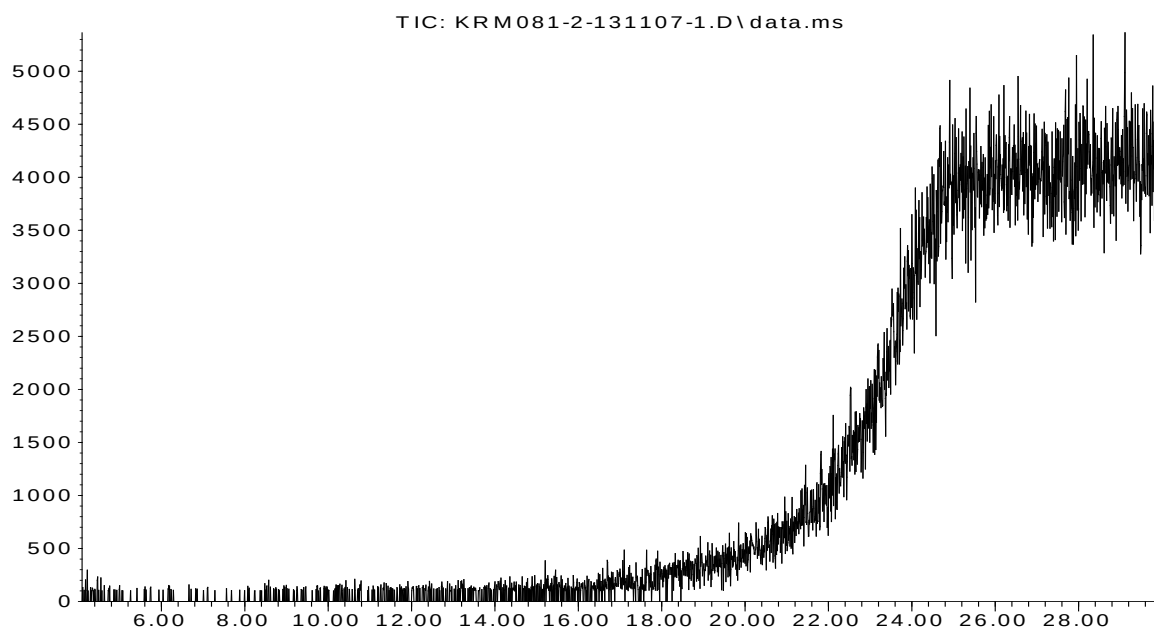
Locus: 076, 087, 088, 089

Abundance



SAMPLE KRM081-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM081-002: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 082

Megiddo, Israel. 2010. Middle Bronze Age II/ Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from southeast corner.

Sherd Weight: 7.49489g $\pm$ 0.00001g
 Sherd Thickness: 5.24mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00865g $\pm$ 0.00002g
 Potassium Hydroxide Extracted Residue: insignificant
 Total Extracted Residue: 0.00865g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 1.15mg/g
 Potassium Hydroxide Extraction Yield: insignificant
 Total Yield: 1.15mg/g

Major Peaks:

Siloxanes

Other Peaks of Note:

Decane

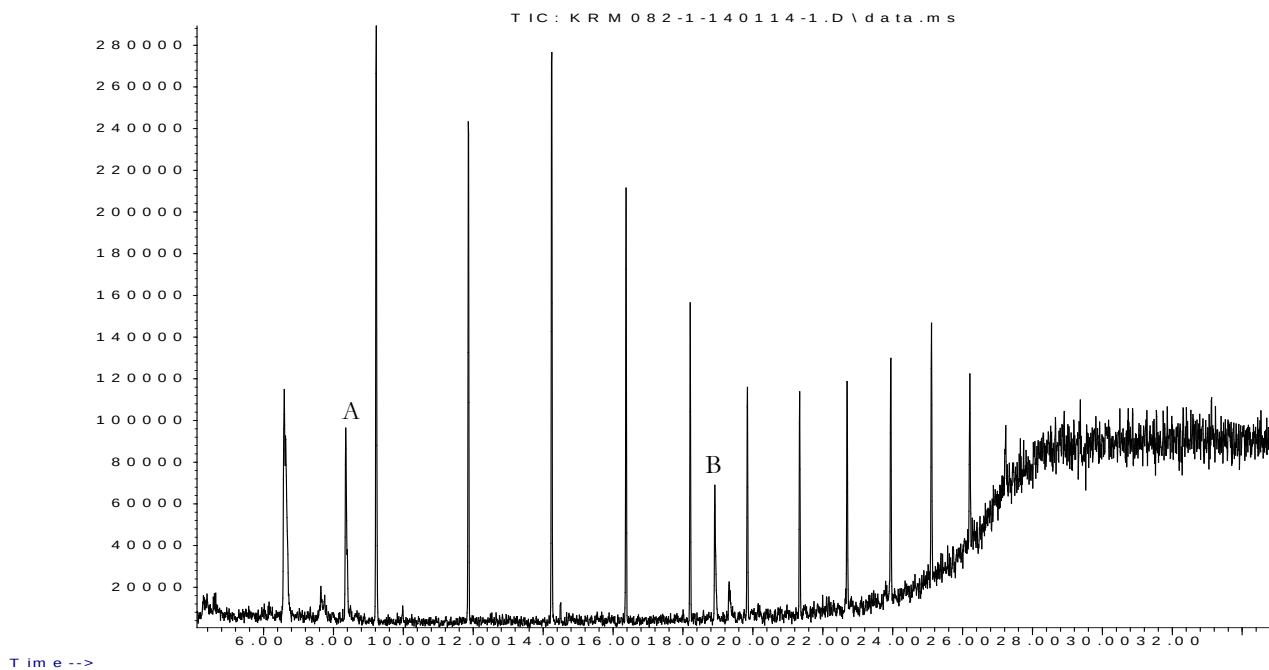
Hexadecanoic Acid, Methyl Ester

Cross-References:

Vessel: 080, 081, 083, 084, 085, 086

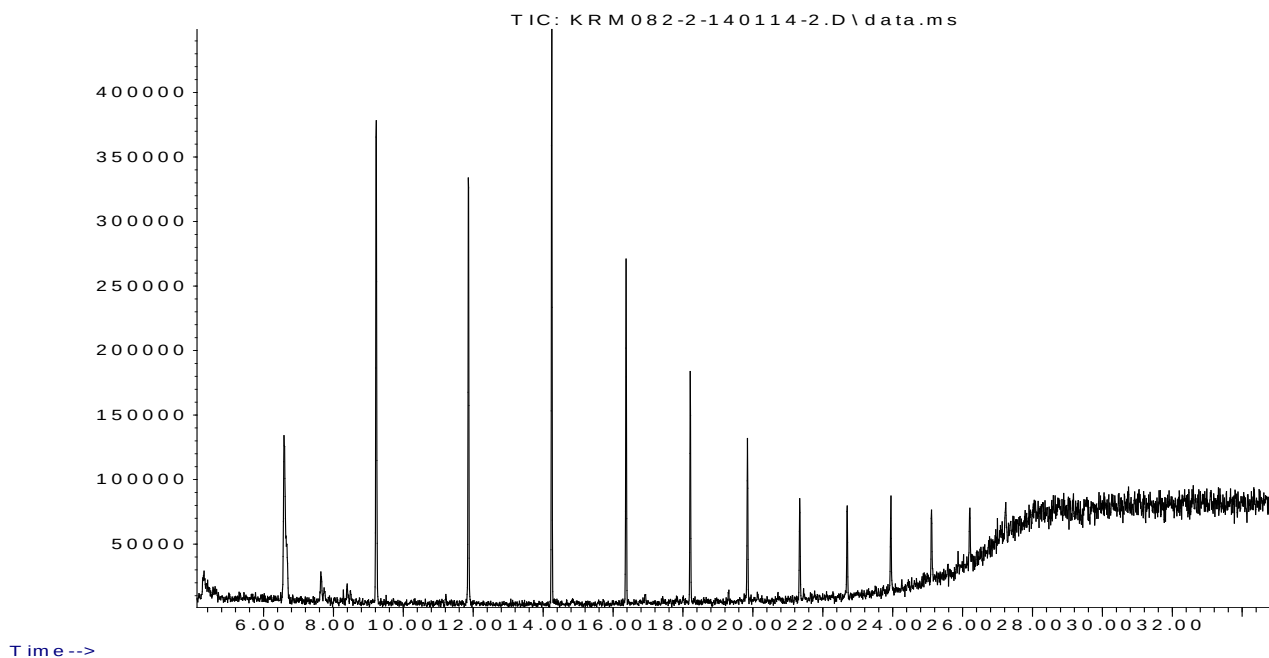
Locus: 076, 087, 088, 089

Abundance

**SAMPLE KRM082-001: Chloroform/Methanol Extraction and FAME Derivatistation**

A) Decane B) Hexadecanoic Methyl Ester

Abundance

**SAMPLE KRM082-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

All siloxanes

KRM 083

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from southeast corner.

Sherd Weight: 5.84587g $\pm$ 0.00001g

Sherd Thickness: 6.87mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00363g $\pm$ 0.00002g (17.49%)

Potassium Hydroxide Extracted Residue: 0.01713g $\pm$ 0.00001g (82.51%)

Total Extracted Residue: 0.02076g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.62mg/g

Potassium Hydroxide Extraction Yield: 2.98mg/g

Total Yield: 3.55mg/g

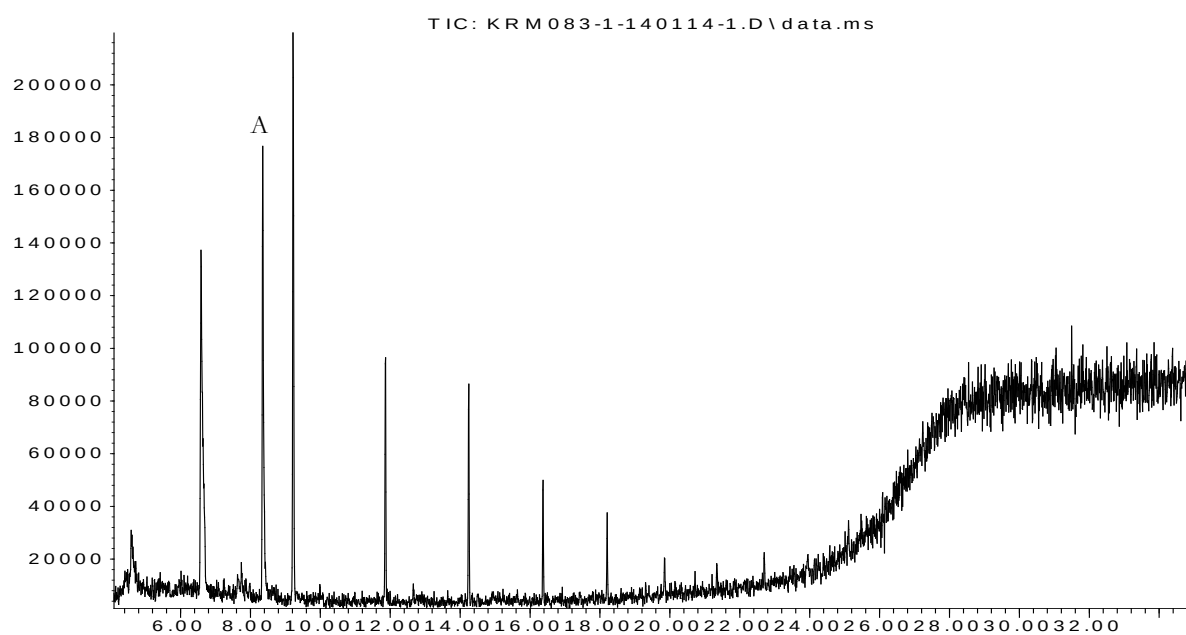
Siloxanes and phthalate plasticisers.

Cross-References:

Vessel: 080, 081, 082, 084, 085, 086

Locus: 076, 087, 088, 089

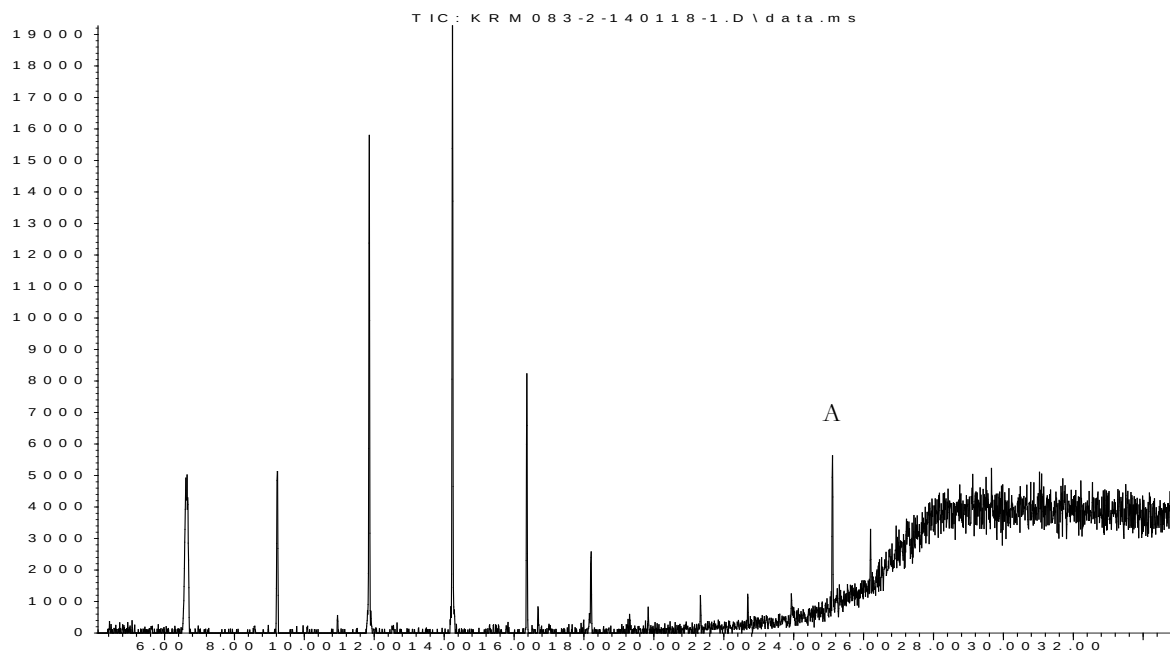
Abundance



SAMPLE KRM083-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes.

Abundance



SAMPLE KRM083-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Phthalate Plasticiser. All others siloxanes.

KRM 084

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from southeast corner.

Sherd Weight: 7.03429g $\pm$ 0.00001g

Sherd Thickness: 8.69mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00449g $\pm$ 0.00003g (23.83%)

Potassium Hydroxide Extracted Residue: 0.01435g $\pm$ 0.00001g (76.17%)

Total Extracted Residue: 0.01884g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 0.64mg/g

Potassium Hydroxide Extraction Yield: 2.08mg/g

Total Yield: 2.68mg/g

Major Peak:

Decane

Secondary Peak:

Undecane

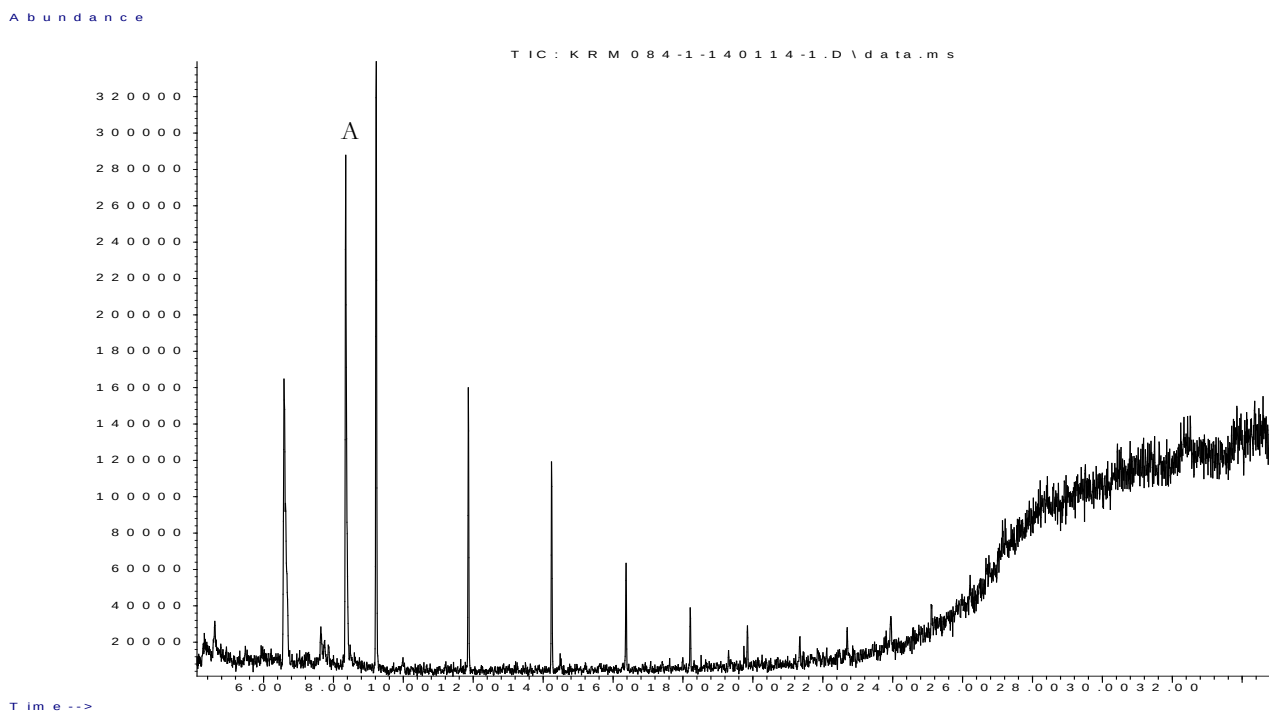
Other Peaks of Note:

Cyclosiloxanes

Cross-References:

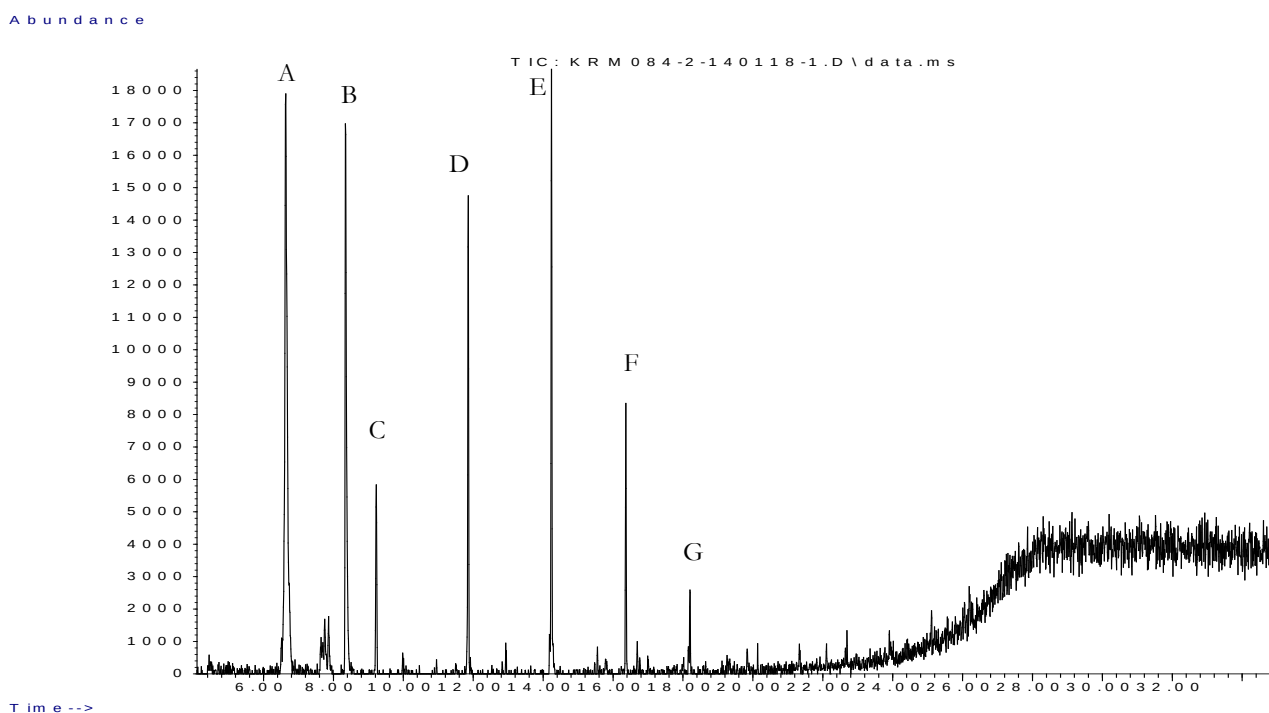
Vessel: 080, 081, 082, 083, 085, 086

Locus: 076, 087, 088, 089



SAMPLE KRM084-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes



SAMPLE KRM084-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Decane B) Undecane C-G) cyclosiloxanes.

KRM 085

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from southeast corner.

Sherd Weight: 4.97594g $\pm$ 0.00001g

Sherd Thickness: 8.03mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00150g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00150g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.30mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.30mg/g

Major Peak:

Cyclosiloxanes

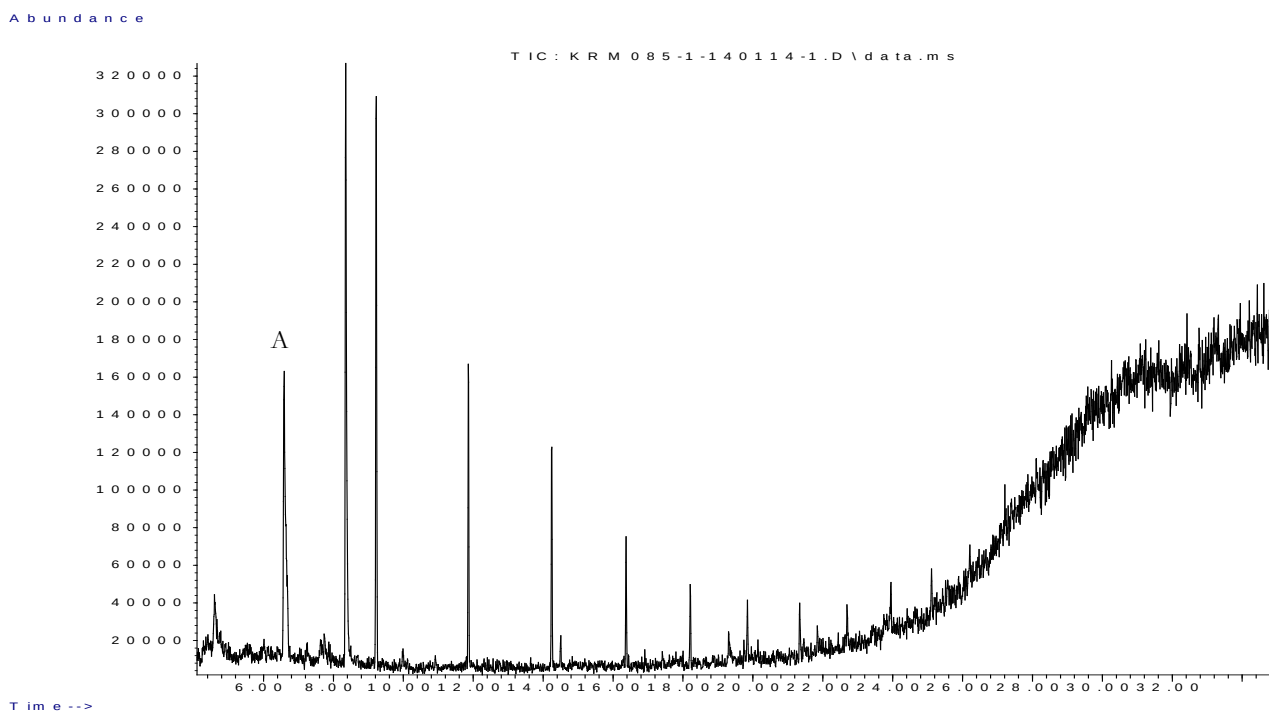
Secondary Peak:

Undecane

Cross-References:

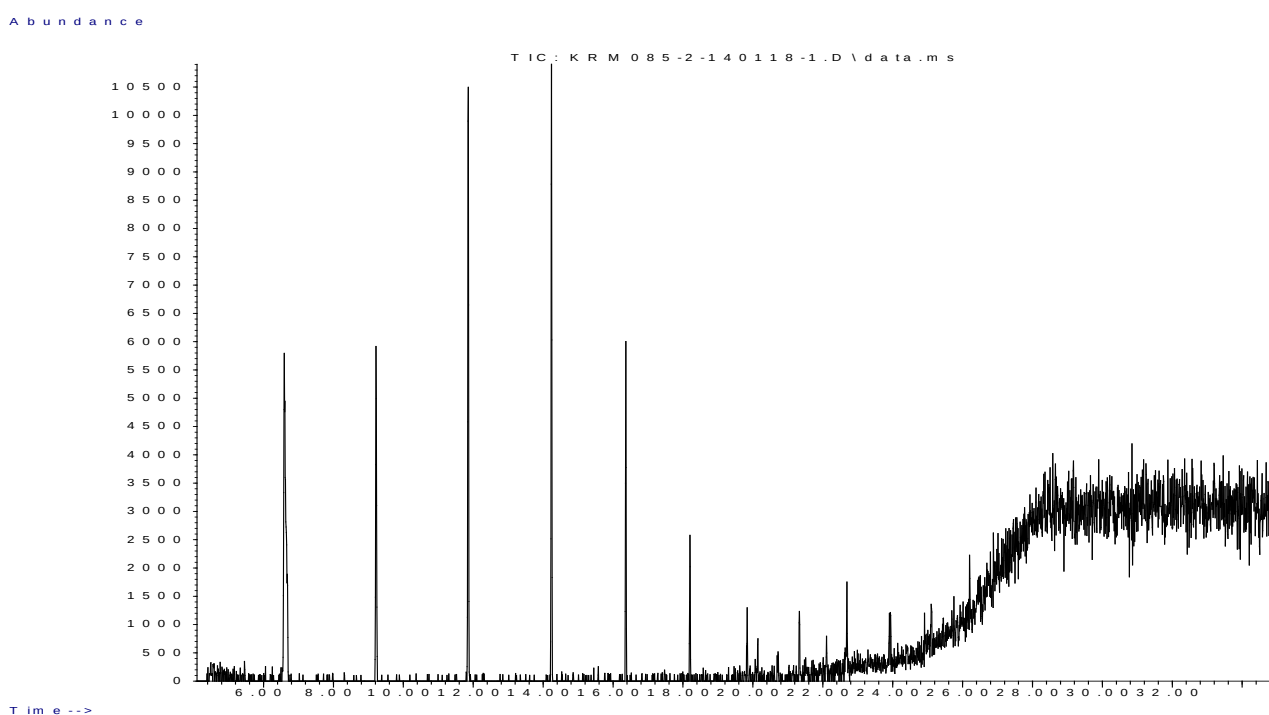
Vessel: 080, 081, 082, 083, 084, 086

Locus: 076, 087, 088, 089



SAMPLE KRM085-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes



SAMPLE KRM085-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 086

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 4. Tomb in a domestic area. Sherd from southeast corner.

Sherd Weight: 5.36721g $\pm$ 0.00002g

Sherd Thickness: 8.03mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00382g $\pm$ 0.00002g (93.63%)

Potassium Hydroxide Extracted Residue: 0.00026g $\pm$ 0.00001g (6.37%)

Total Extracted Residue: 0.00408g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.71mg/g

Potassium Hydroxide Extraction Yield: 0.05mg/g

Total Yield: 0.76mg/g

Major Peak:

Undecane

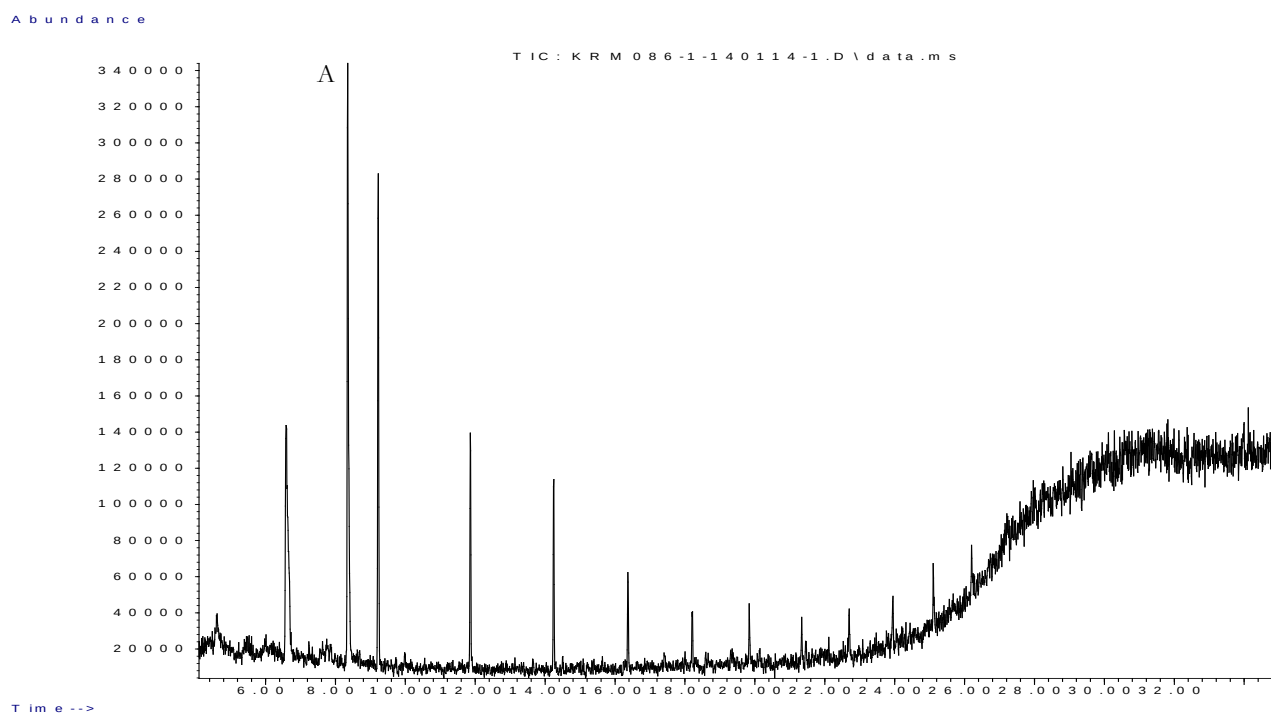
Secondary Peak:

Cyclosiloxanes

Cross-References:

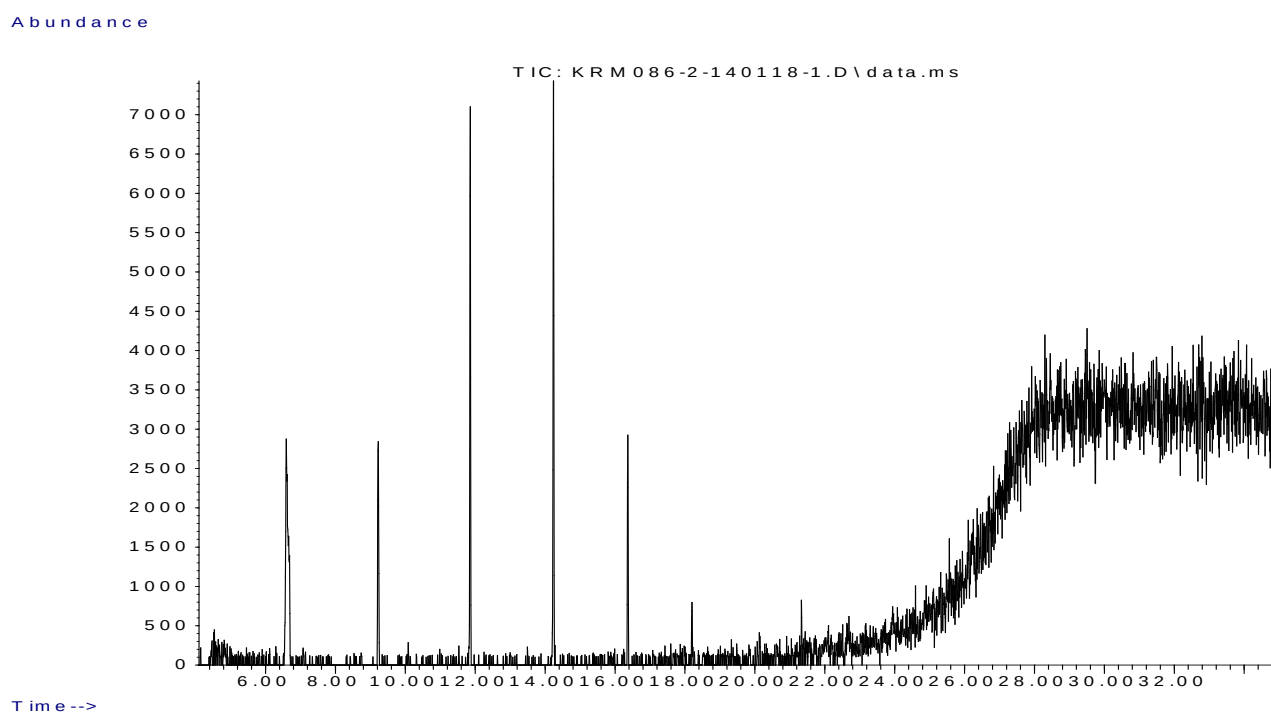
Vessel: 080, 081, 082, 083, 084, 085

Locus: 076, 087, 088, 089



SAMPLE KRM086-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others cyclosiloxanes.



SAMPLE KRM086-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All cyclosiloxanes

KRM 087

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 9, vessel 32. Tomb in a domestic area. Sherd from a storage jar.

Sherd Weight: 5.09054g $\pm$ 0.00001g

Sherd Thickness: 6.15mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00233g $\pm$ 0.00003g (93.57%)

Potassium Hydroxide Extracted Residue: 0.00016g $\pm$ 0.00001g (6.43%)

Total Extracted Residue: 0.00249g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 0.46mg/g

Potassium Hydroxide Extraction Yield: 0.03mg/g

Total Yield: 0.49mg/g

Major Peak:

Cyclosiloxanes

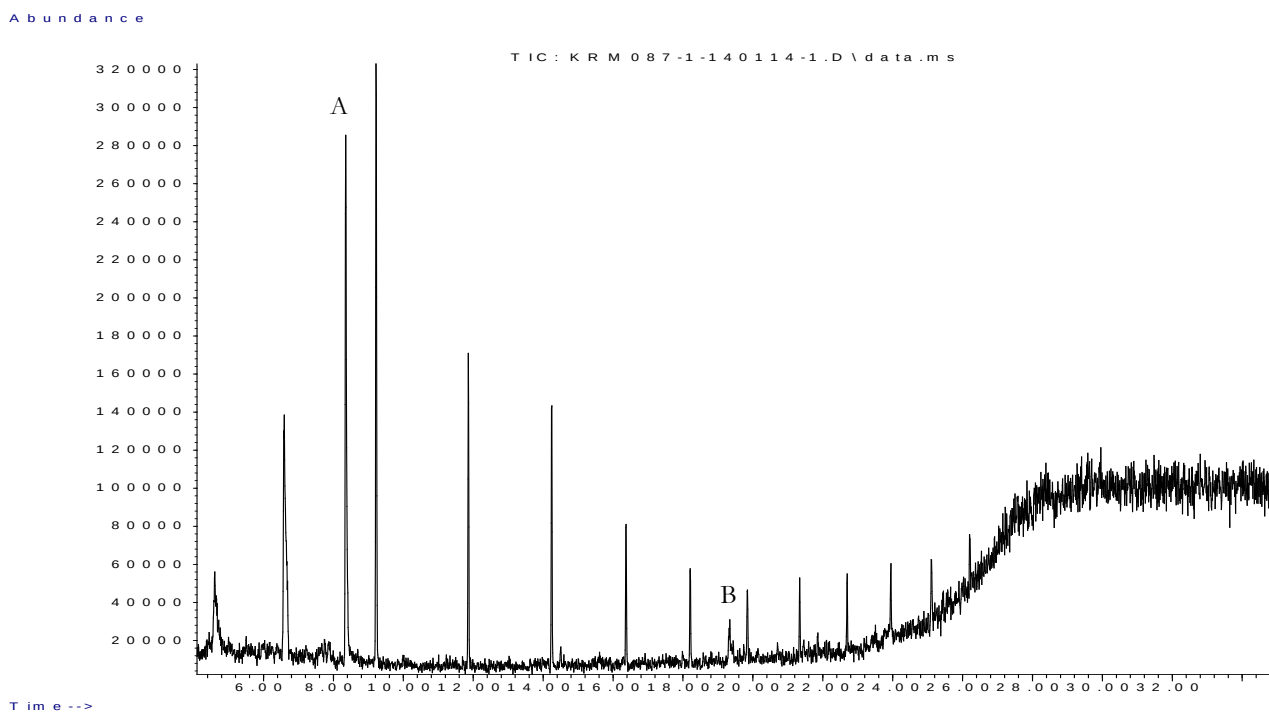
Secondary Peak:

Undecane

Cross-References:

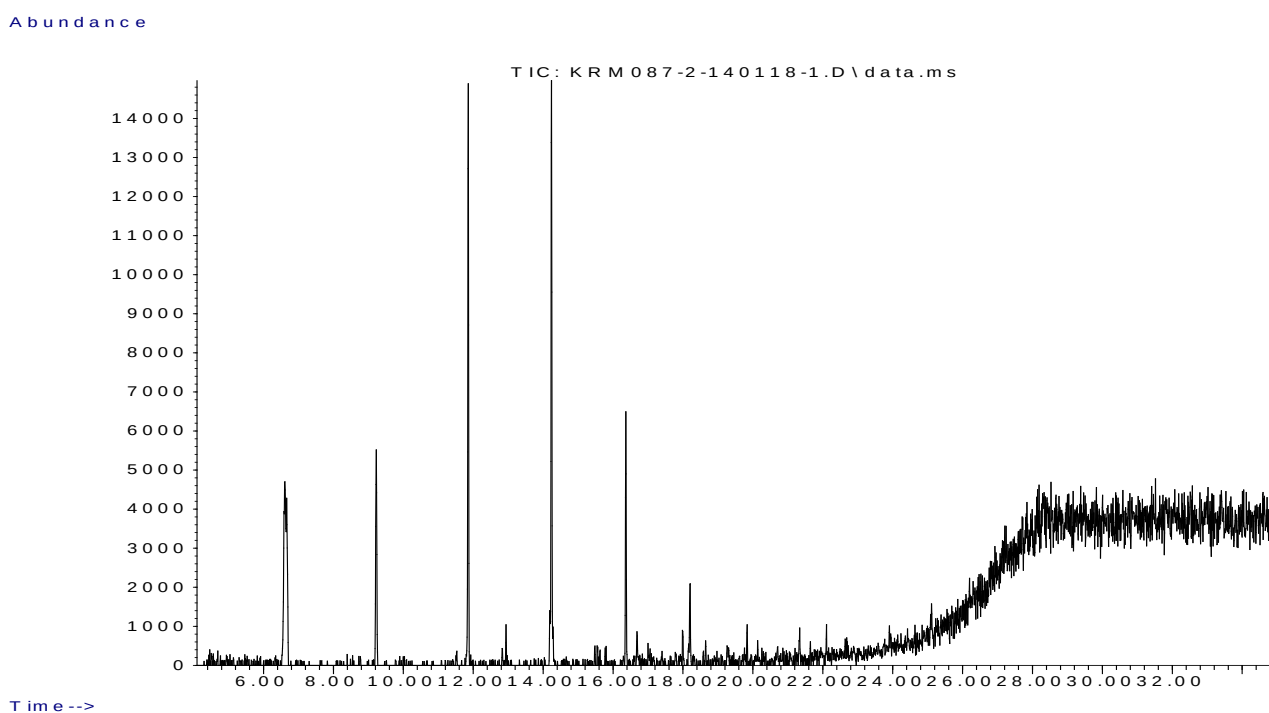
Vessel: 088, 089

Locus: 076, 080, 081, 082, 083, 084, 085, 086



SAMPLE KRM087-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Hexadecanoic Acid, Methyl Ester. All others cyclosiloxanes.



SAMPLE KRM087-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 088

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 9, vessel 32. Tomb in a domestic area. Sherd from a storage jar.

Sherd Weight: 7.15927g $\pm$ 0.00003g

Sherd Thickness: 5.43mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00140g $\pm$ 0.00002g	(8.41%)
Potassium Hydroxide Extracted Residue:	0.01525g $\pm$ 0.00001g	(91.59%)
Total Extracted Residue:	0.01665g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield: 0.20mg/g

Potassium Hydroxide Extraction Yield: 2.16mg/g

Total Yield: 2.33mg/g

Major Peak:

Undecane

Secondary Peak:

Cyclosiloxanes

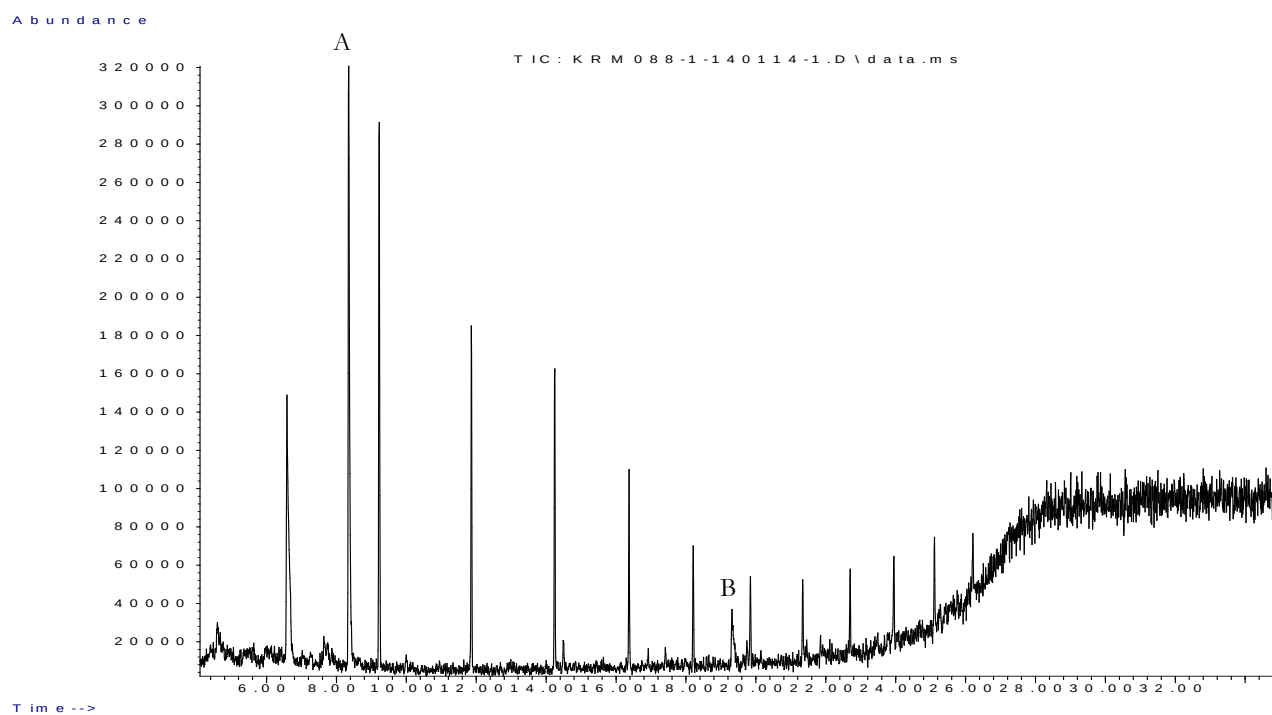
Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester

Cross-References:

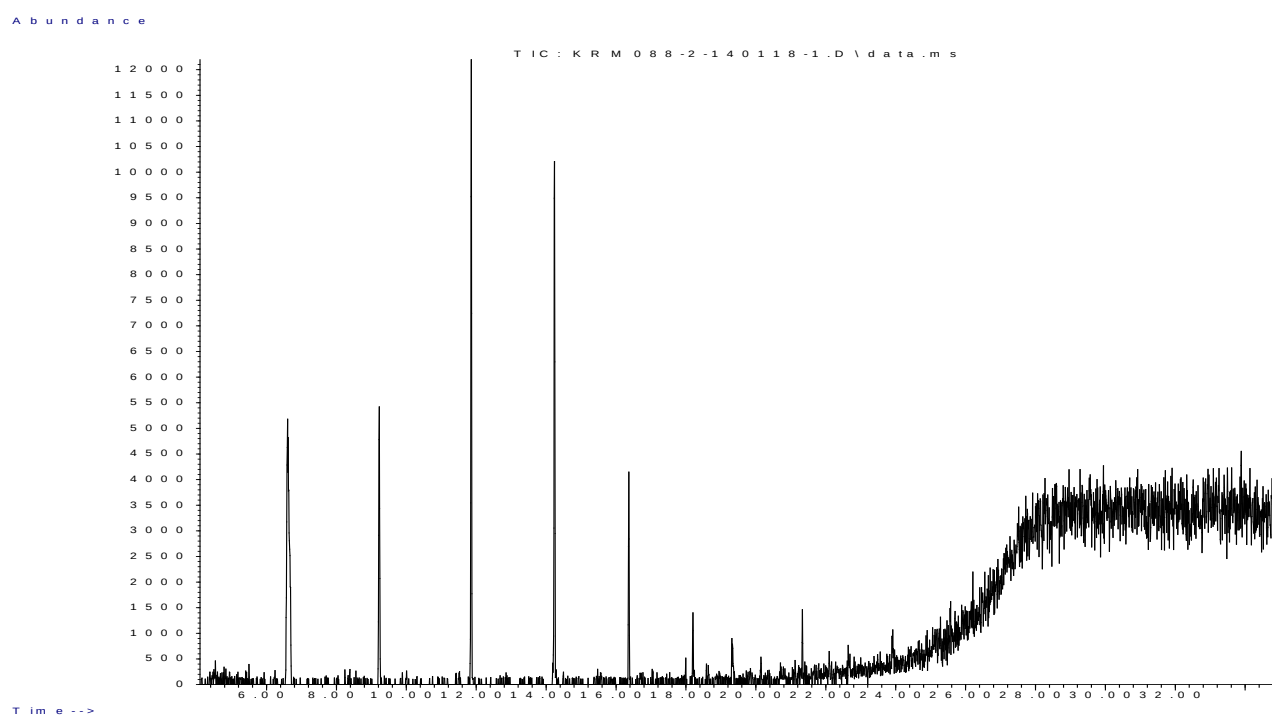
Vessel: 087, 089

Locus: 076, 080, 081, 082, 083, 084, 085, 086



SAMPLE KRM088-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Hexadecanoic Acid, Methyl Ester



SAMPLE KRM088-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 089

Megiddo, Israel. 2010. Middle Bronze Age II/Late Bronze Age I. Area K, locus 10/K/102, pottery bucket 9, vessel 32. Tomb in a domestic area. Sherd from a storage jar.

Sherd Weight: 5.68315g $\pm$ 0.00001g

Sherd Thickness: 5.04mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00458g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00458g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.81mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.81mg/g

Cyclosiloxanes

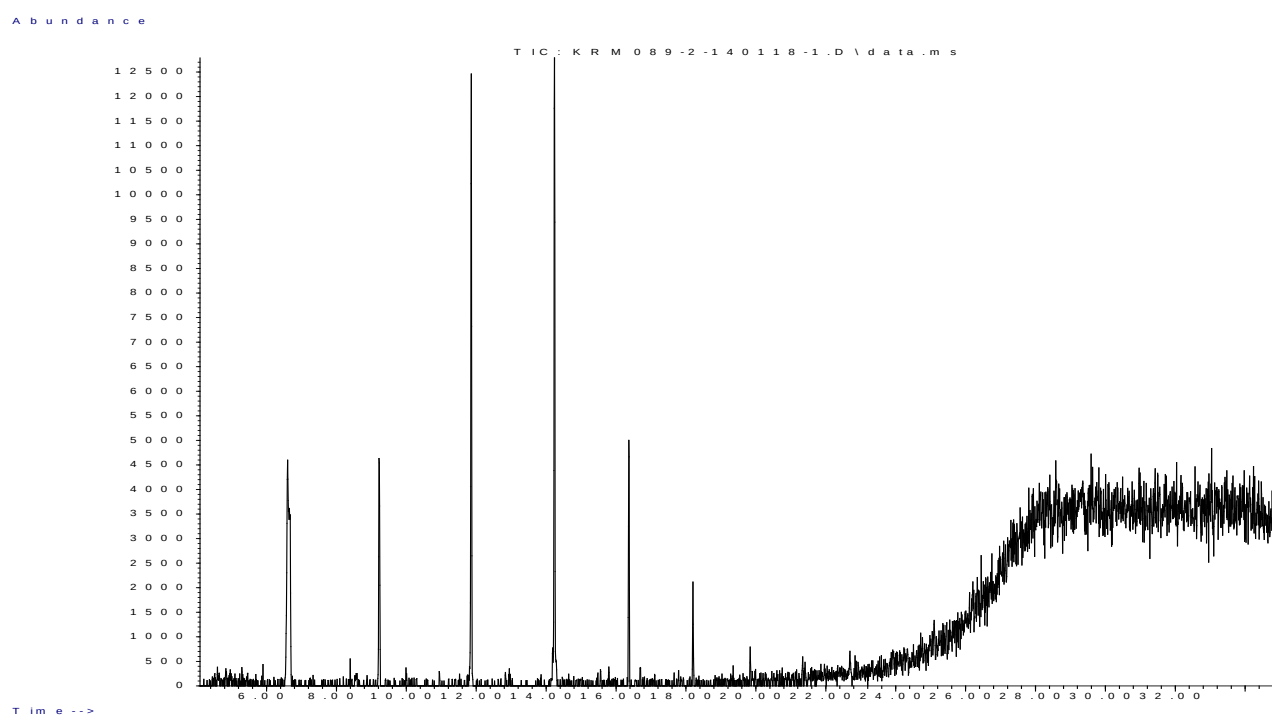
Cross-References:

Vessel: 087, 088

Locus: 076, 080, 081, 082, 083, 084, 085, 086

SAMPLE KRM089-001: Chloroform/Methanol Extraction and FAME Derivatistation

Sample lost

**SAMPLE KRM089-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

All cyclosiloxanes

KRM 090

Megiddo, Israel. 2010. Late Bronze Age I. Area K, locus 10/K/112, pottery bucket 2, lab 5. Burial in a domestic area. Residue sample.

Sample Weight: 0.88442g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.01170g $\pm$ 0.00002g	(80.75%)
Potassium Hydroxide Extracted Residue:	0.00279g $\pm$ 0.00001g	(19.25%)
Total Extracted Residue:	0.01449g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	13.23mg/g
Potassium Hydroxide Extraction Yield:	3.15mg/g
Total Yield:	16.38mg/g

Major Peak:

Siloxanes

Secondary Peak:

Undecane

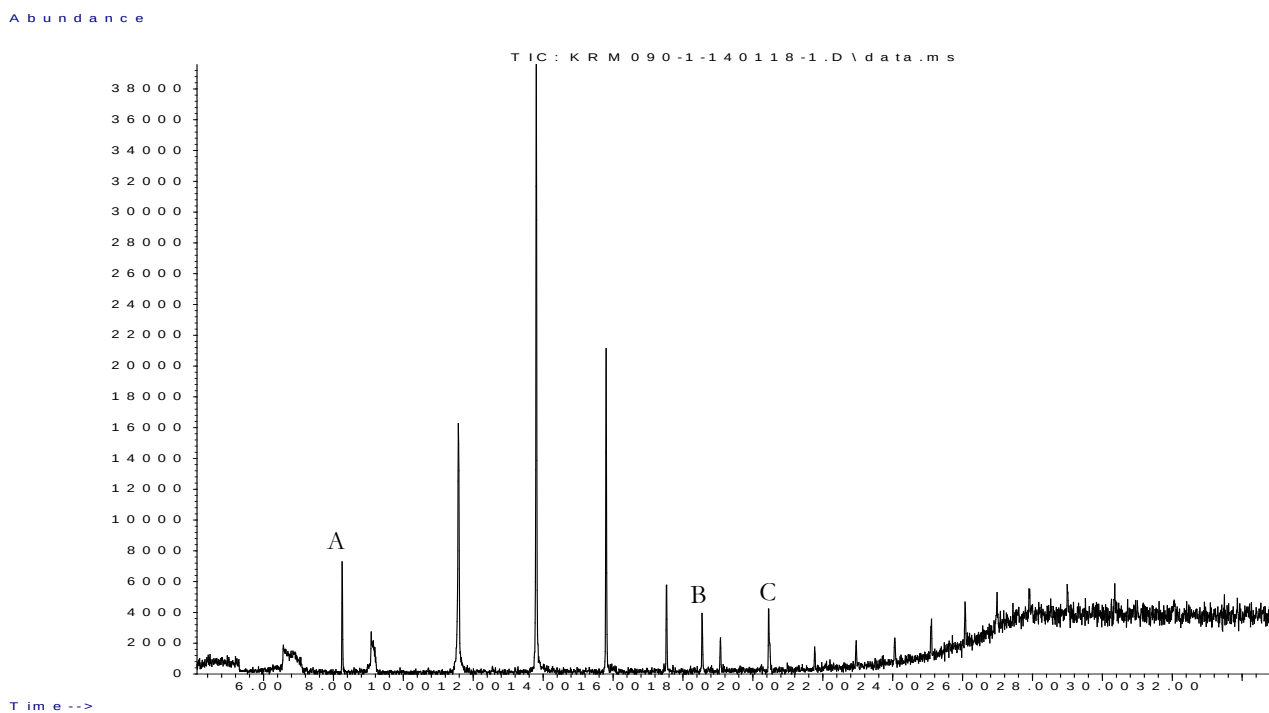
Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

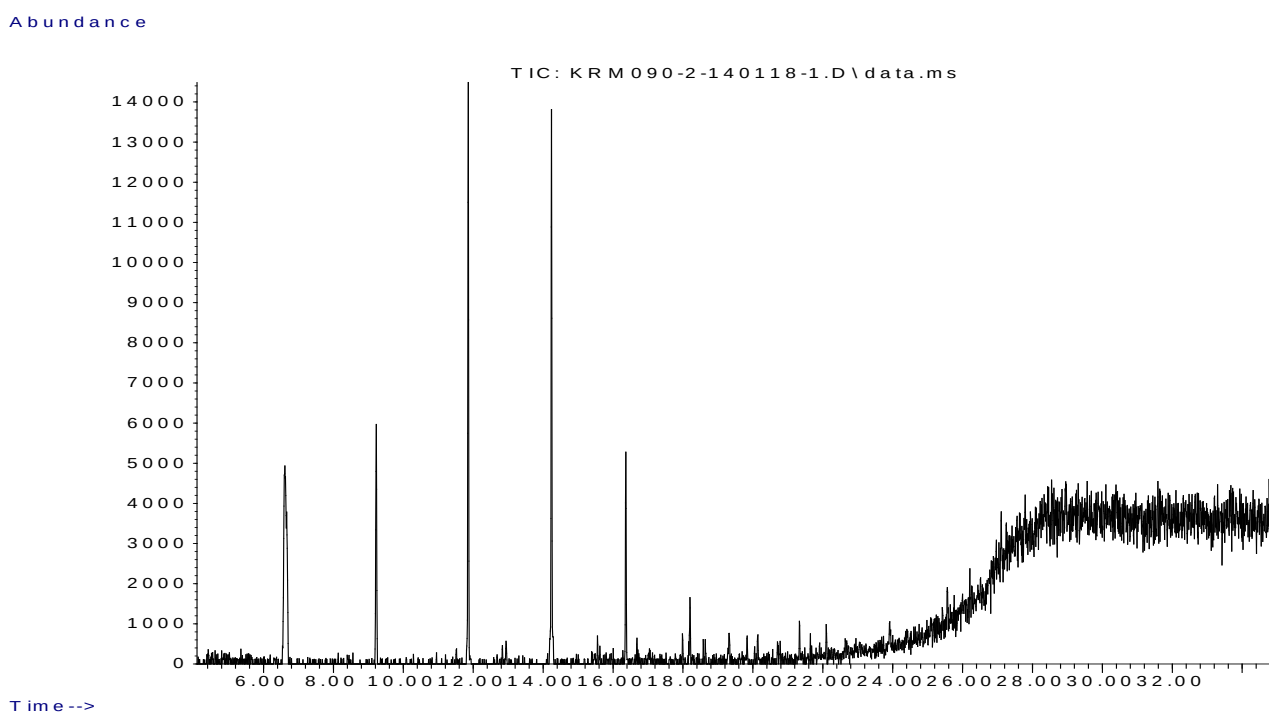
Cross-References:

Vessel: 091



SAMPLE KRM090-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Hexadecanoic Acid, Methyl Ester Octadecanoic Acid, Methyl Ester. All others siloxanes.



SAMPLE KRM090-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 091

Megiddo, Israel. 2010. Late Bronze Age I. Area K, locus 10/K/112, pottery bucket 2, lab 5. Burial in a domestic area. Body sherd.

Sherd Weight: 5.46084g $\pm$ 0.00001g

Sherd Thickness: 4.56mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00196g $\pm$ 0.00002g (79.03%)

Potassium Hydroxide Extracted Residue: 0.00052g $\pm$ 0.00002g (20.97%)

Total Extracted Residue: 0.00248g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 0.36mg/g

Potassium Hydroxide Extraction Yield: 0.10mg/g

Total Yield: 0.45mg/g

Major Peak:

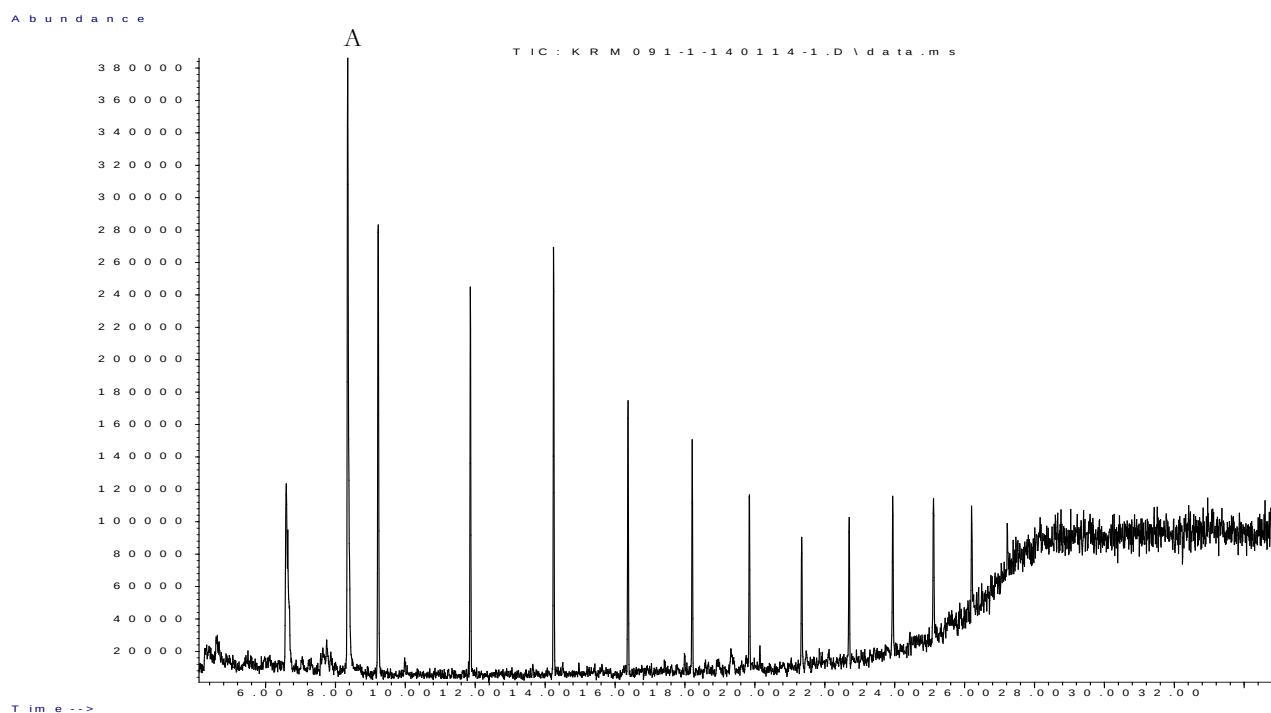
Undecane

Secondary Peak:

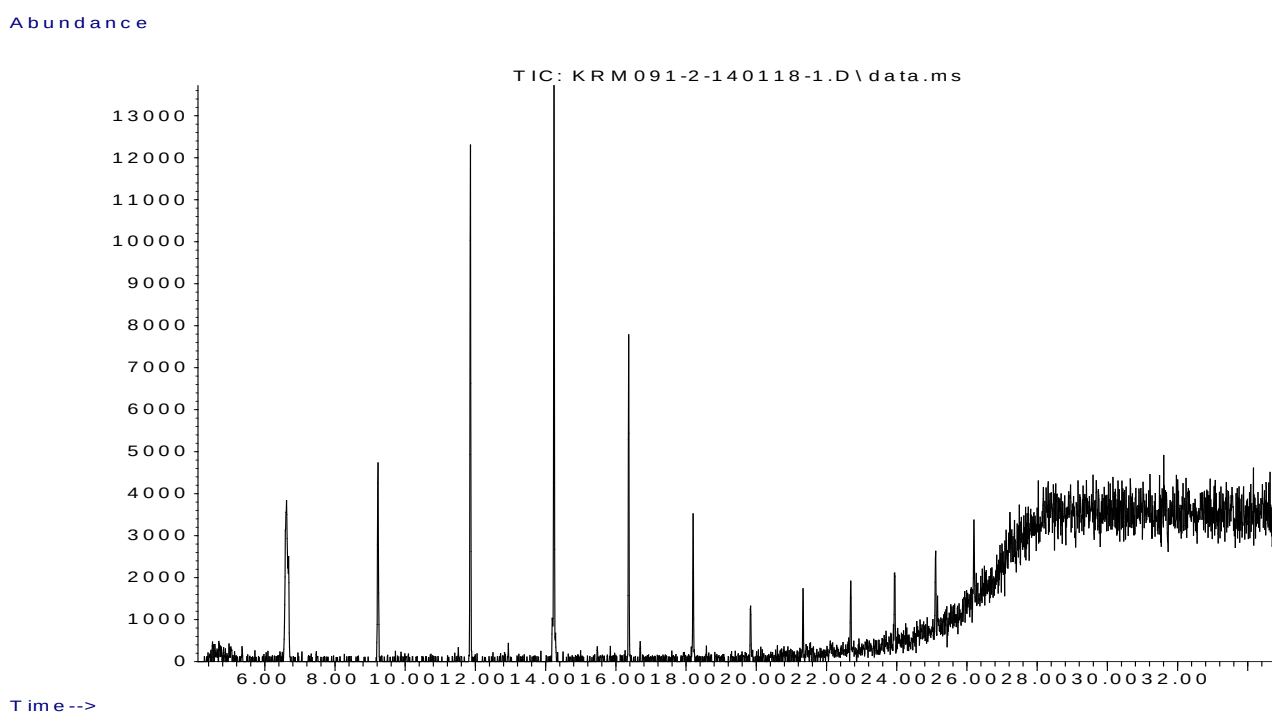
Cyclosiloxanes

Cross-References:

Vessel: 090



SAMPLE KRM091-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) Undecane. All others siloxanes.



SAMPLE KRM091-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes

KRM 092

Megiddo, Israel. 2010. Late Bronze Age II. Area H, locus 10/H/034, pottery bucket 2, vessel 1. Elite domestic context. Body sherd.

Sherd Weight: 5.04447g $\pm$ 0.00003g

Sherd Thickness: 5.44mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00232g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00232g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.46mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.46mg/g

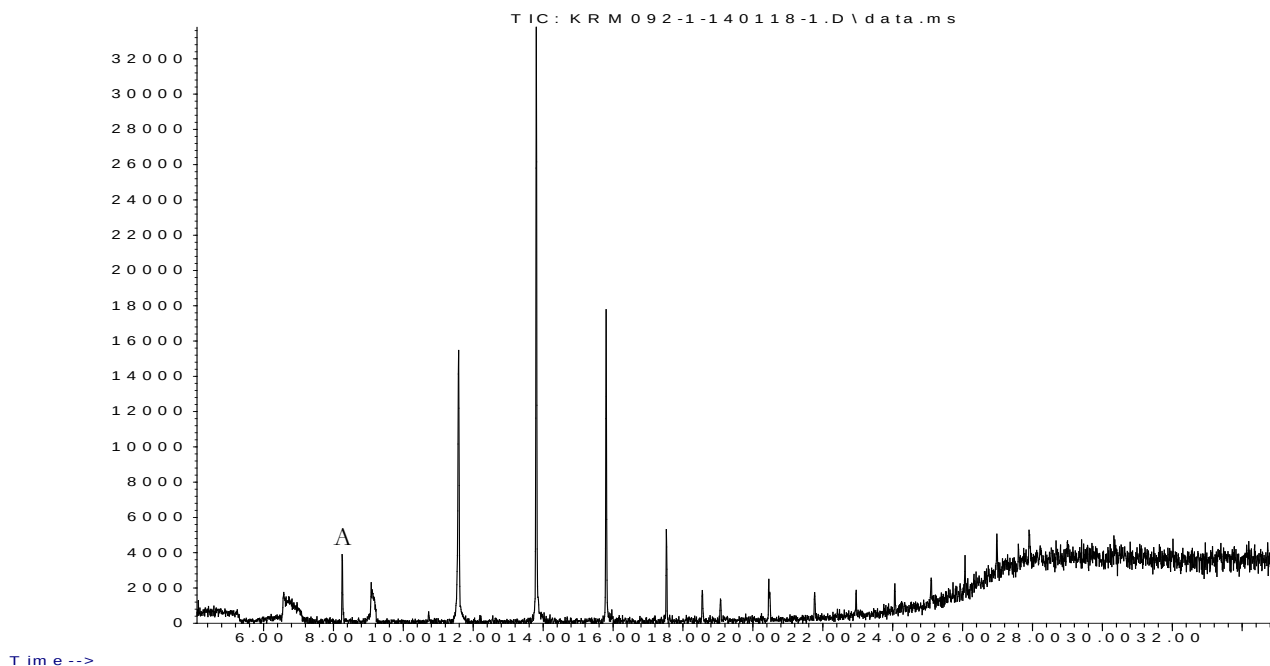
Major Peak:

Cyclosiloxanes

Secondary Peak:

Undecane

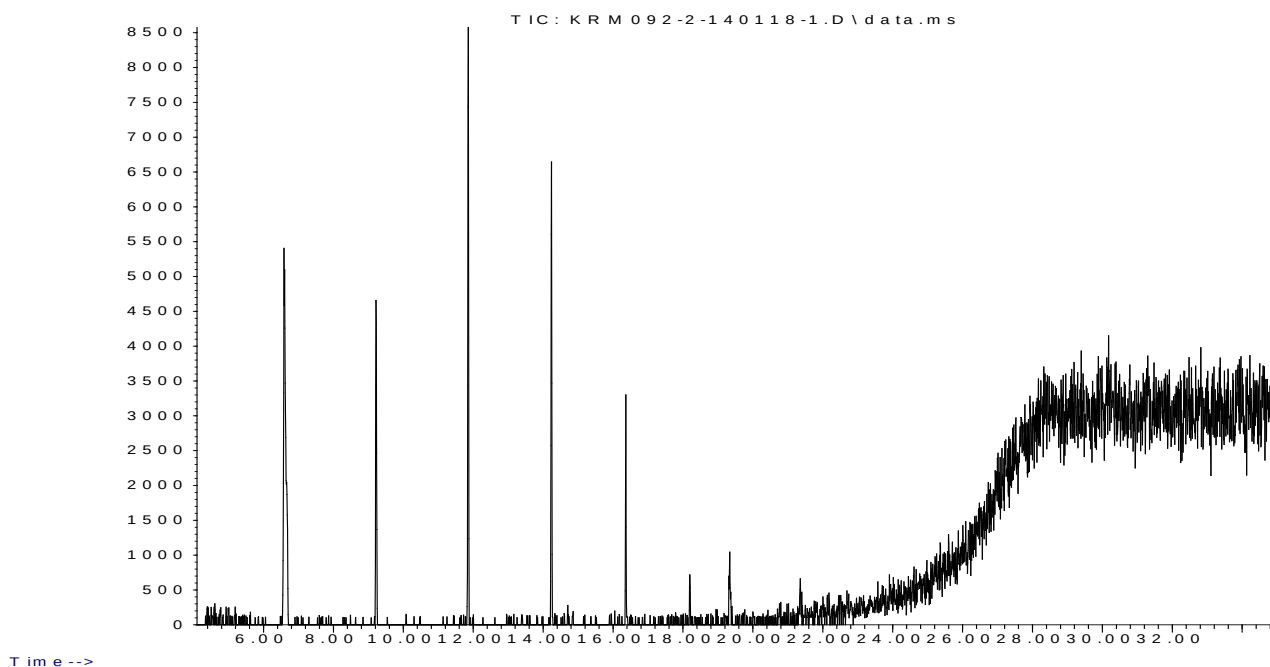
Abundance



SAMPLE KRM092-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes

Abundance



SAMPLE KRM092-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 093

Megiddo, Israel. 2010. Late Bronze Age II. Area H, locus 10/H/036, pottery bucket 12, vessel 3. Elite domestic context. Bowl with a beer jug inside.

Sherd Weight: 8.79593g $\pm$ 0.00002g

Sherd Thickness: 5.55mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.02257g $\pm$ 0.00003g (96.45%)

Potassium Hydroxide Extracted Residue: 0.00083g $\pm$ 0.00001g (3.55%)

Total Extracted Residue: 0.02340g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 2.57mg/g

Potassium Hydroxide Extraction Yield: 0.10mg/g

Total Yield: 2.66mg/g

Major Peak:

Undecane

Hexadecanoic Acid, Methyl Este

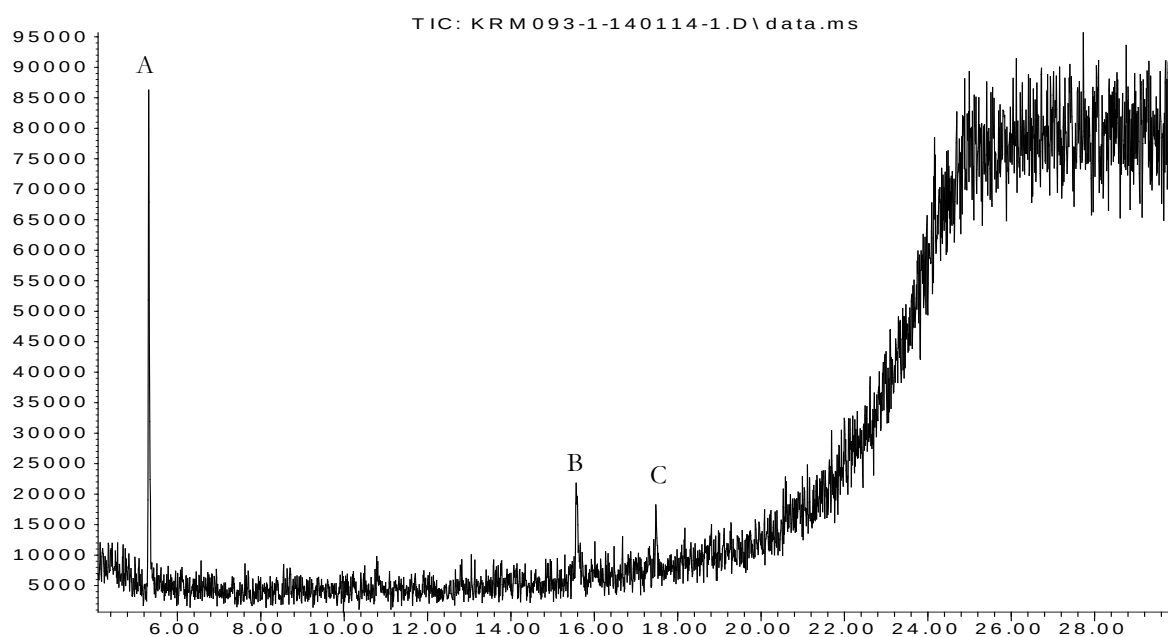
Secondary Peak:

Octadecanoic Acid, Methyl Ester

Cross-References:

Locus: 094 (associated vessel)

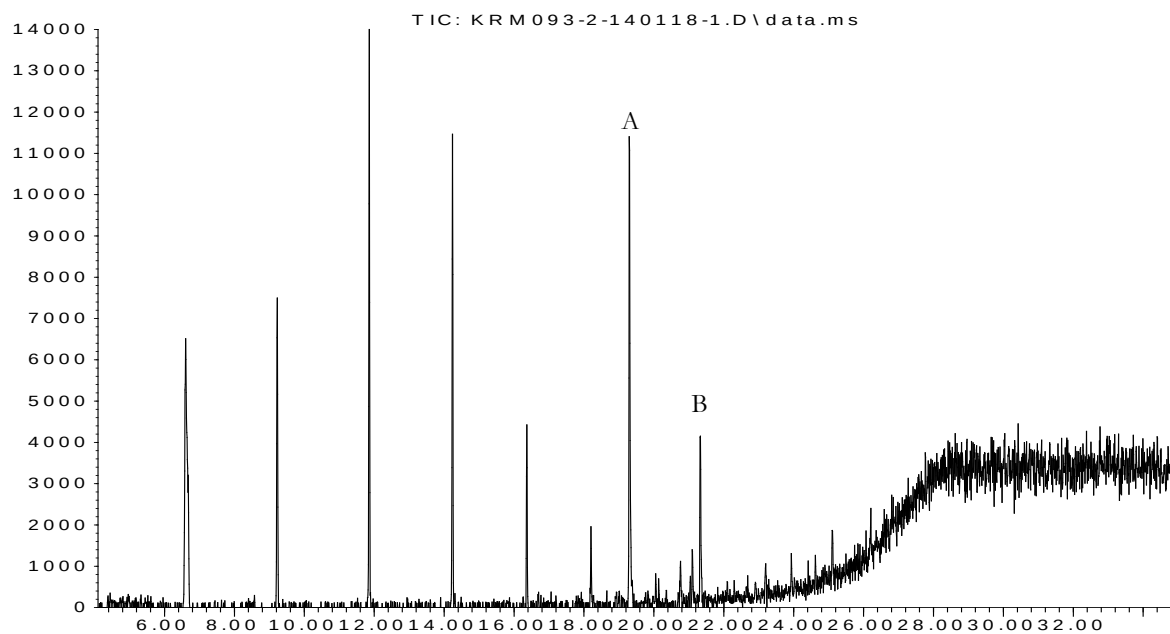
Abundance



SAMPLE KRM093-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) C) Hexadecanoic Acid Methyl Ester. C) Octadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM093-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester B) Octadecadoic Acid, Methyl Ester. All others siloxanes.

KRM 094

Megiddo, Israel. 2010. Late Bronze Age II. Area H, locus 10/H/036, pottery bucket 12, vessel 3. Elite domestic context. Bowl used as a cover for a “beer” jar.

Sherd Weight: 7.46469g $\pm$ 0.00001g

Sherd Thickness: 8.07mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00092g $\pm$ 0.00001g (54.44%)

Potassium Hydroxide Extracted Residue: 0.00077g $\pm$ 0.00001g (45.56%)

Total Extracted Residue: 0.00169g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.12mg/g

Potassium Hydroxide Extraction Yield: 0.10mg/g

Total Yield: 0.22mg/g

Major Peak:

Cyclosiloxanes

Secondary Peak:

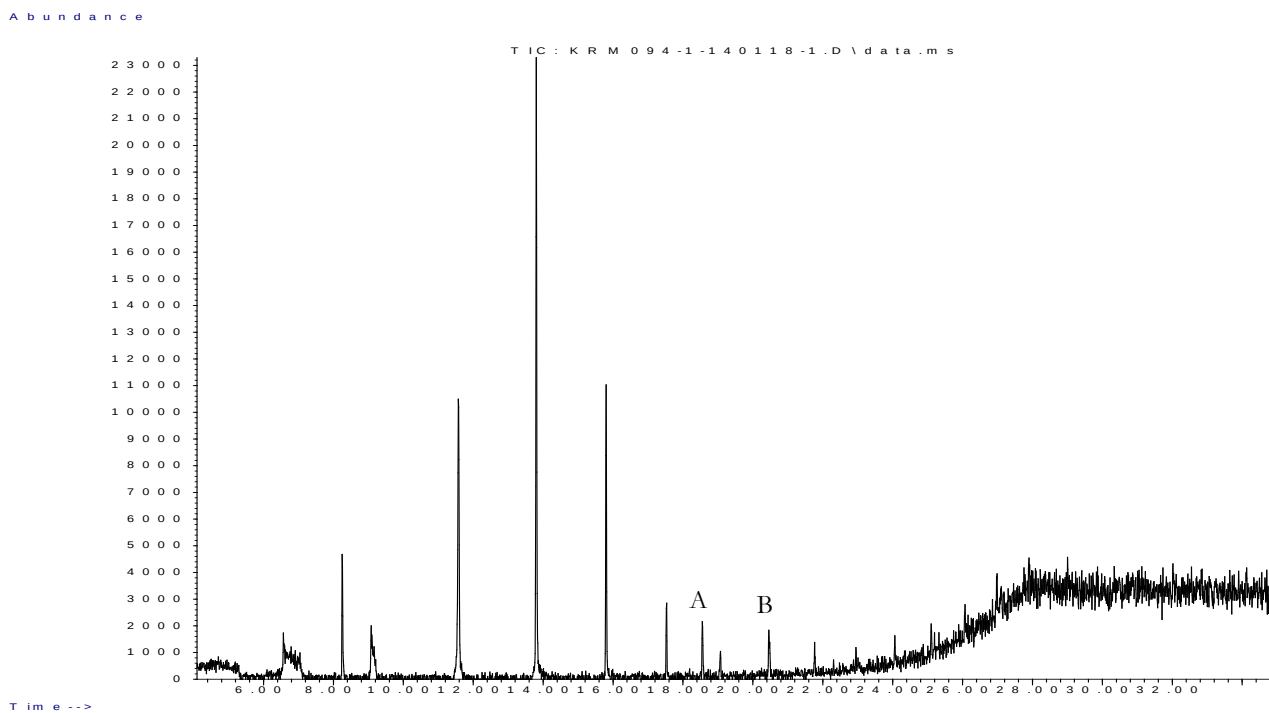
Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

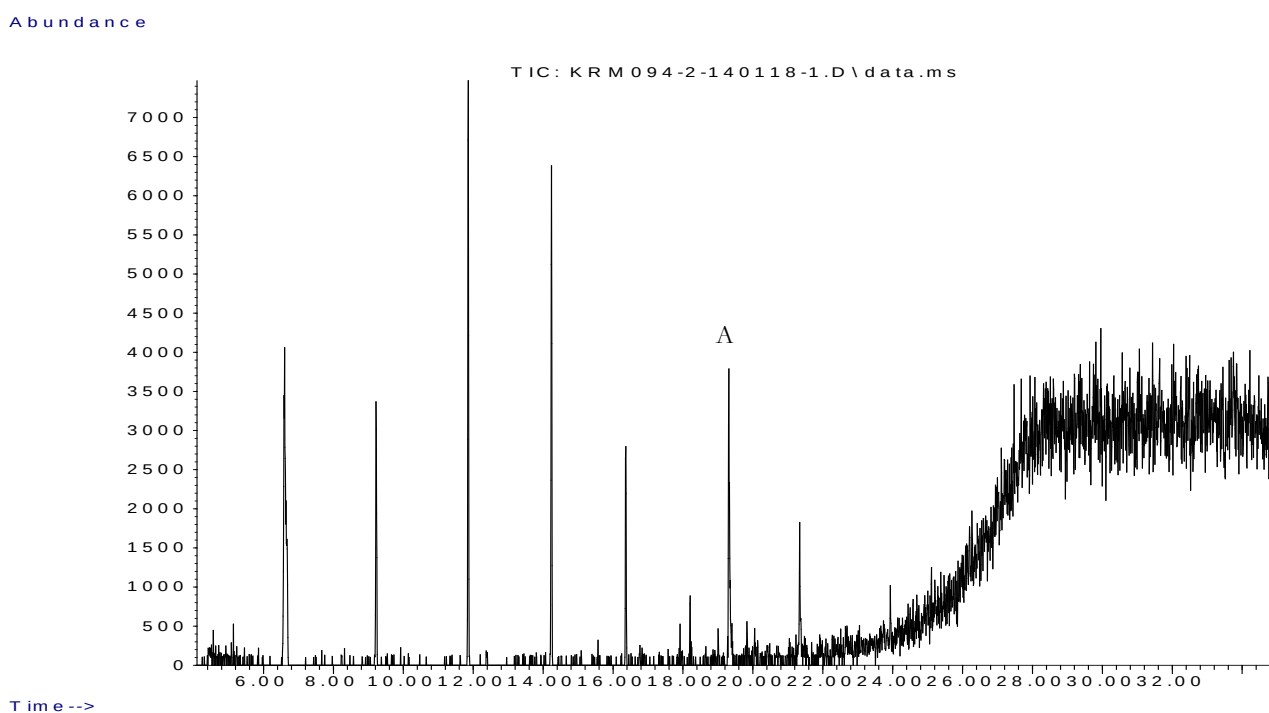
Cross-References:

Locus: 093 (associated vessel)



SAMPLE KRM094-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Hexadecanoic Acid, Methyl Ester B) Octadecanoic Acid, Methyl Ester



SAMPLE KRM094-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. All others siloxanes

KRM 095

Megiddo, Israel. 2010. Late Bronze Age II. Area H, locus 10/H/097, pottery bucket 1, vessel 1. Elite domestic context. “Beer” jar.

Sherd Weight: 3.58000g $\pm$ 0.00003g

Sherd Thickness: 11.23mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00390g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00390g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.09mg/g

Potassium Hydroxide Extraction Yield: insignificant

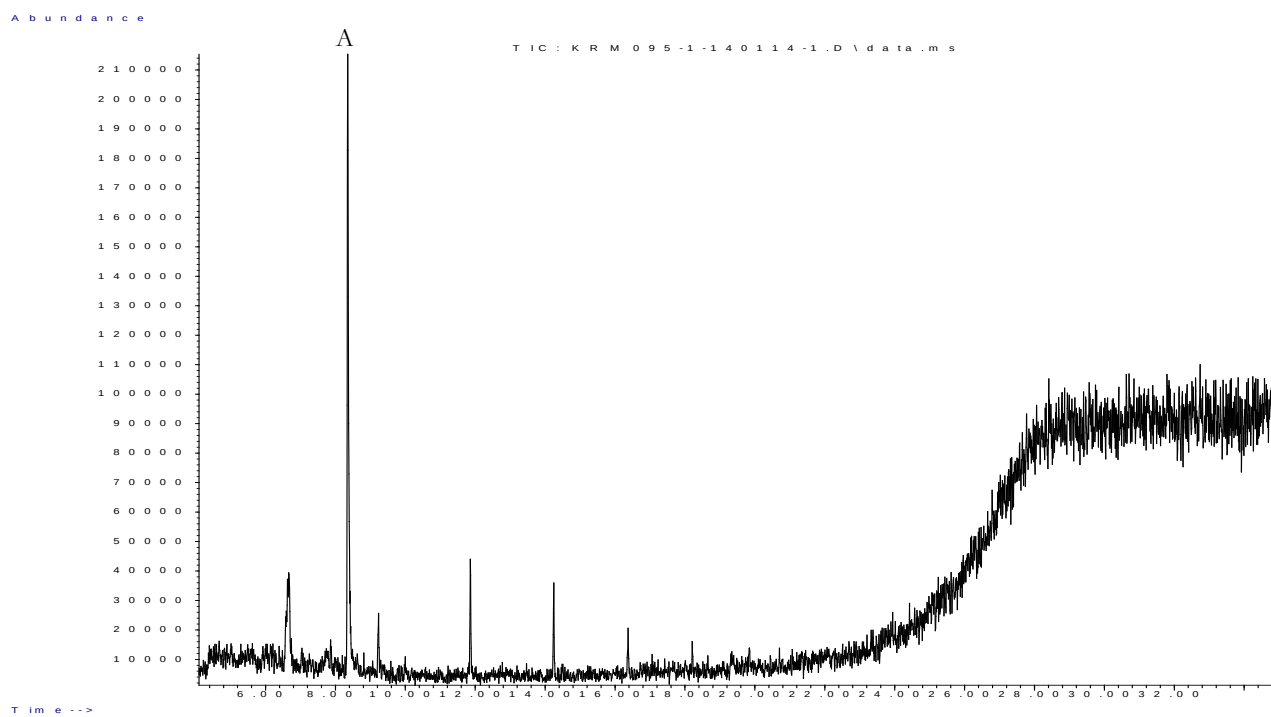
Total Yield: 1.09mg/g

Major Peak:

Undecane

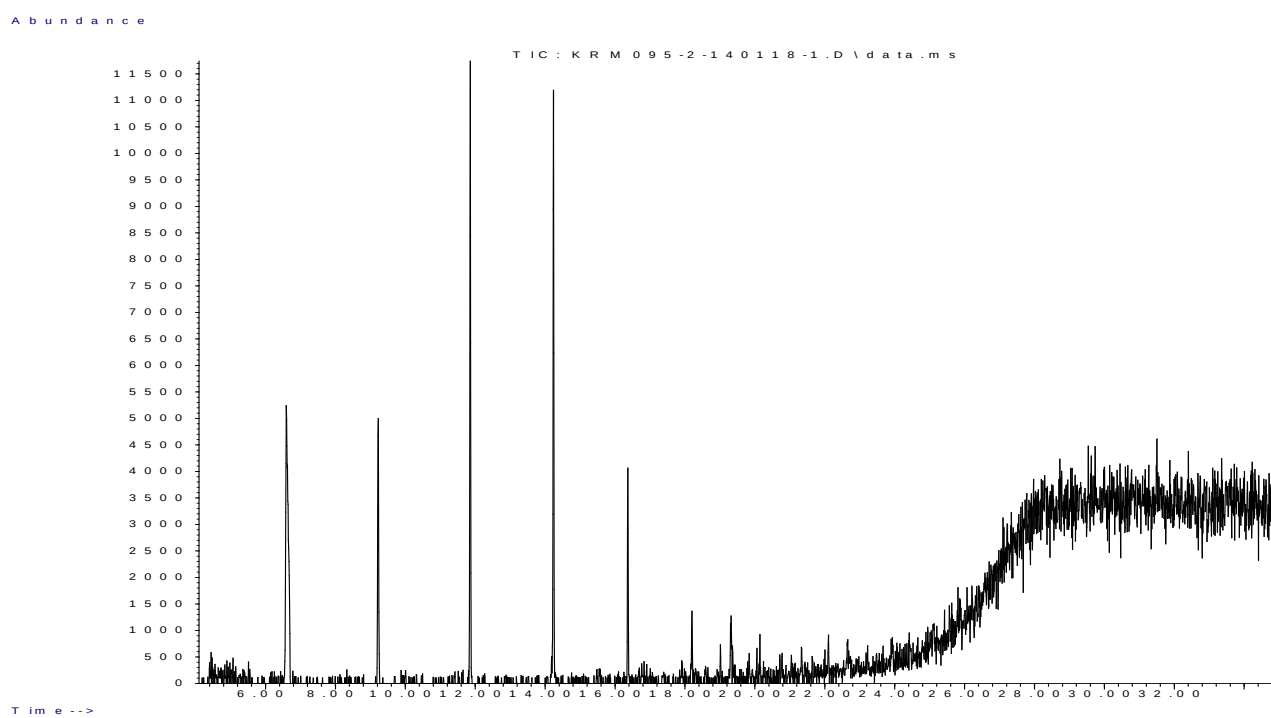
Secondary Peaks:

Siloxanes



SAMPLE KRM095-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. Al other siloxanes



SAMPLE KRM095-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 096

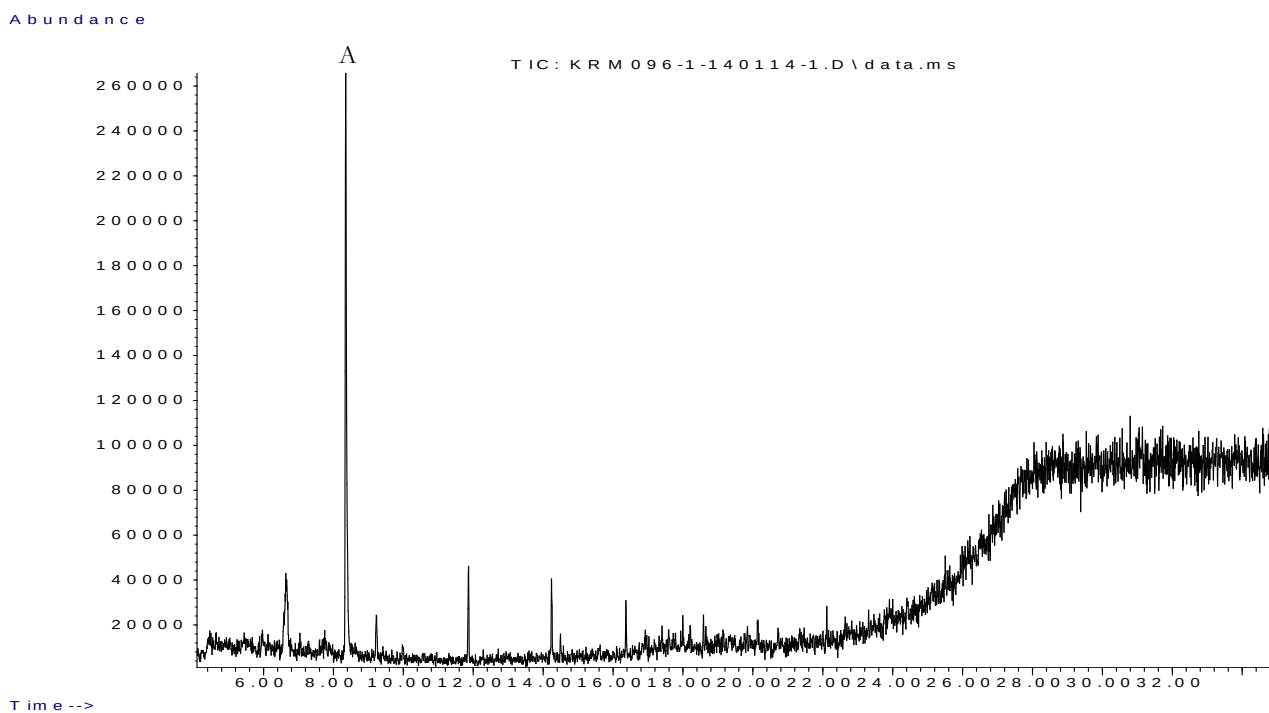
Lefkandi, Greece. 2008. Late Helladic III, Iron Age. Area T-S, locus 56, pottery bucket 267, reference Nb55 p181. Sample drilled from shoulder/rim sherd with handle.

Sample Weight: 1.22760g $\pm$ 0.00001g

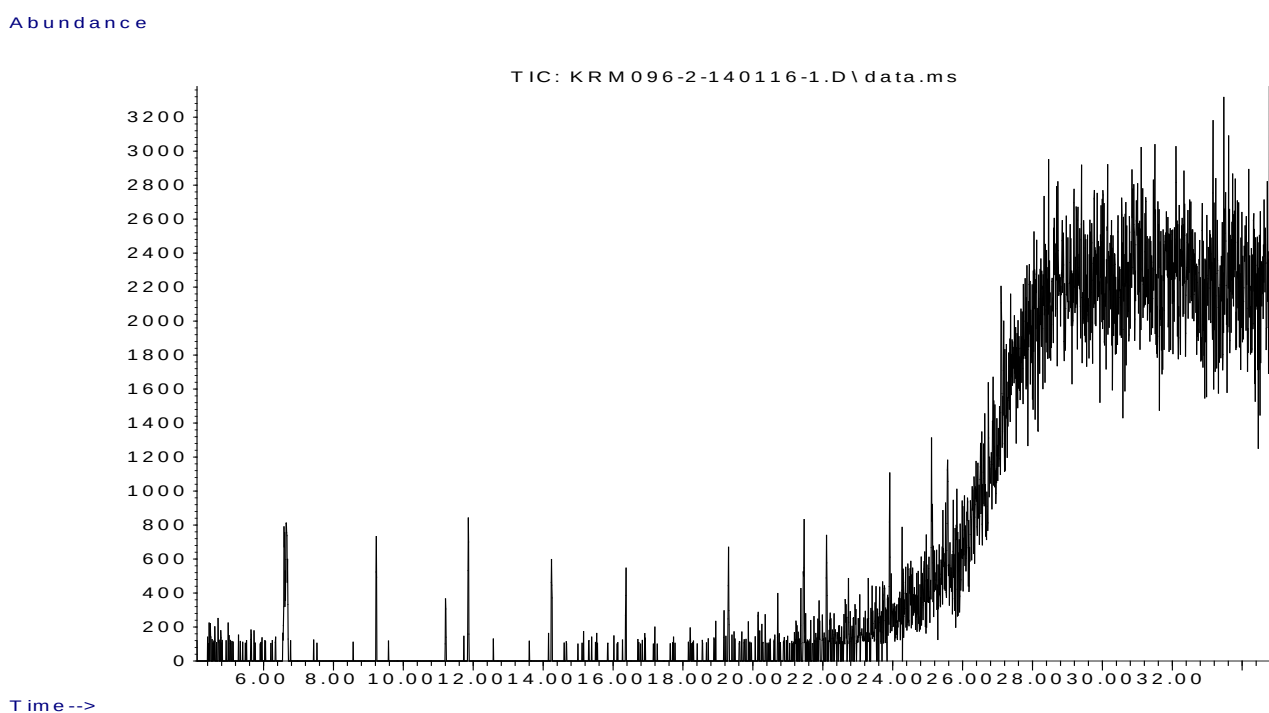
Chloroform Methanol Extracted Residue:	0.00182g $\pm$ 0.00001g	(92.39%)
Potassium Hydroxide Extracted Residue:	0.00015g $\pm$ 0.00001g	(7.61%)
Total Extracted Residue:	0.00197g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	1.48mg/g
Potassium Hydroxide Extraction Yield:	0.12mg/g
Total Yield:	1.60mg/g

Major Peak:
Undecane



SAMPLE KRM096-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) Undecane. All others siloxanes



SAMPLE KRM096-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All background noise.

KRM 097

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 3668, reference Nb55 p175. Sample drilled from base sherd.

Sample Weight: 1.32787g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00288g $\pm$ 0.00003g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00288g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 2.17mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 2.17mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

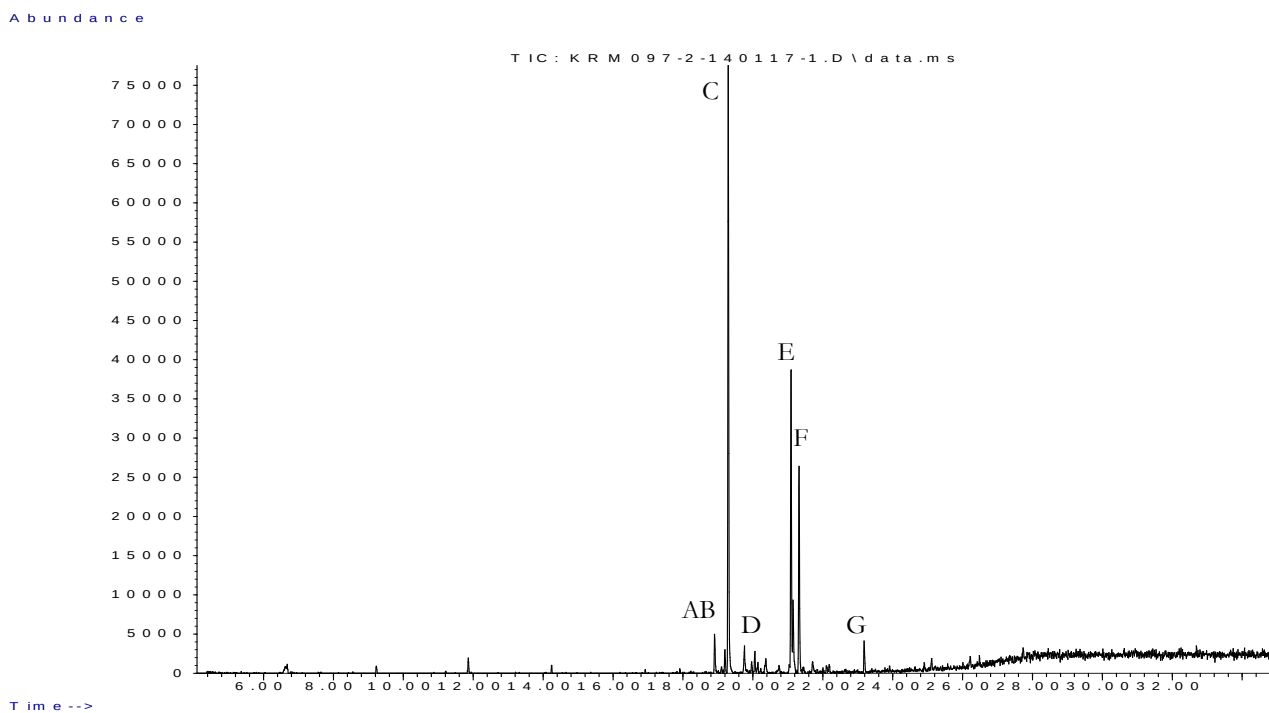
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

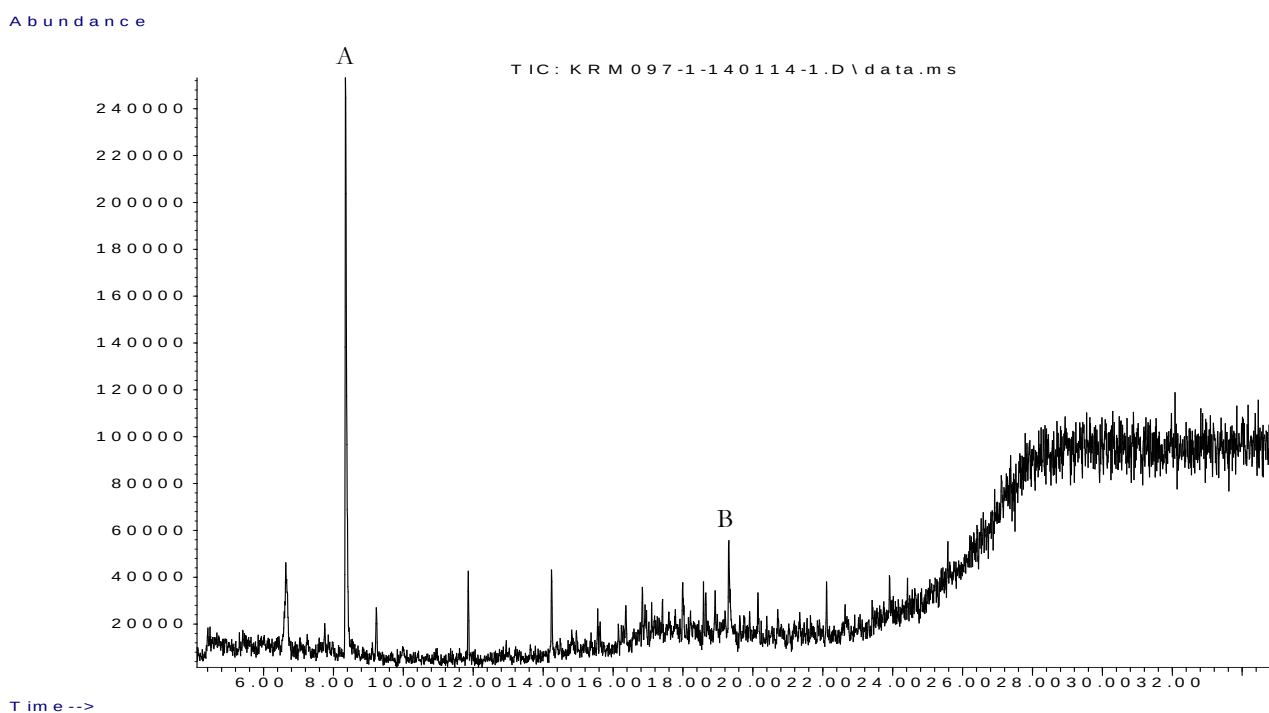
Alkanoic Acid Methyl Esters: C_{11:0}, C_{16:0}, C_{17:0}, C_{18:0}, C_{20:0}

Alkenoic Acid Methyl Esters: C_{16:1}, C_{18:1}



SAMPLE KRM097-001: Chloroform/Methanol Extraction and FAME Derivatistation

- A) Undecanoic Acid, Methyl Ester B) Hexadecenoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester
 D) Heptadecanoic Acid, Methyl Ester E) Octadecenoic Acid, Methyl Ester F) Octadecanoic Acid, Methyl Ester
 G) Eicosanoic Acid, Methyl Ester.



SAMPLE KRM097-002: Potassium Hydroxide Extraction and FAME Derivatistaion

- A) Undecane B) Hexadecanoic Acid, Methyl Ester

KRM 098

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 2667, reference Nb55 p174. Sample drilled from rim and handle attachment of a krater.

Sample Weight: 1.17075g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00612g $\pm$ 0.00003g	(99.35%)
Potassium Hydroxide Extracted Residue:	0.00004g $\pm$ 0.00001g	(0.65%)
Total Extracted Residue:	0.00616g $\pm$ 0.00003g	

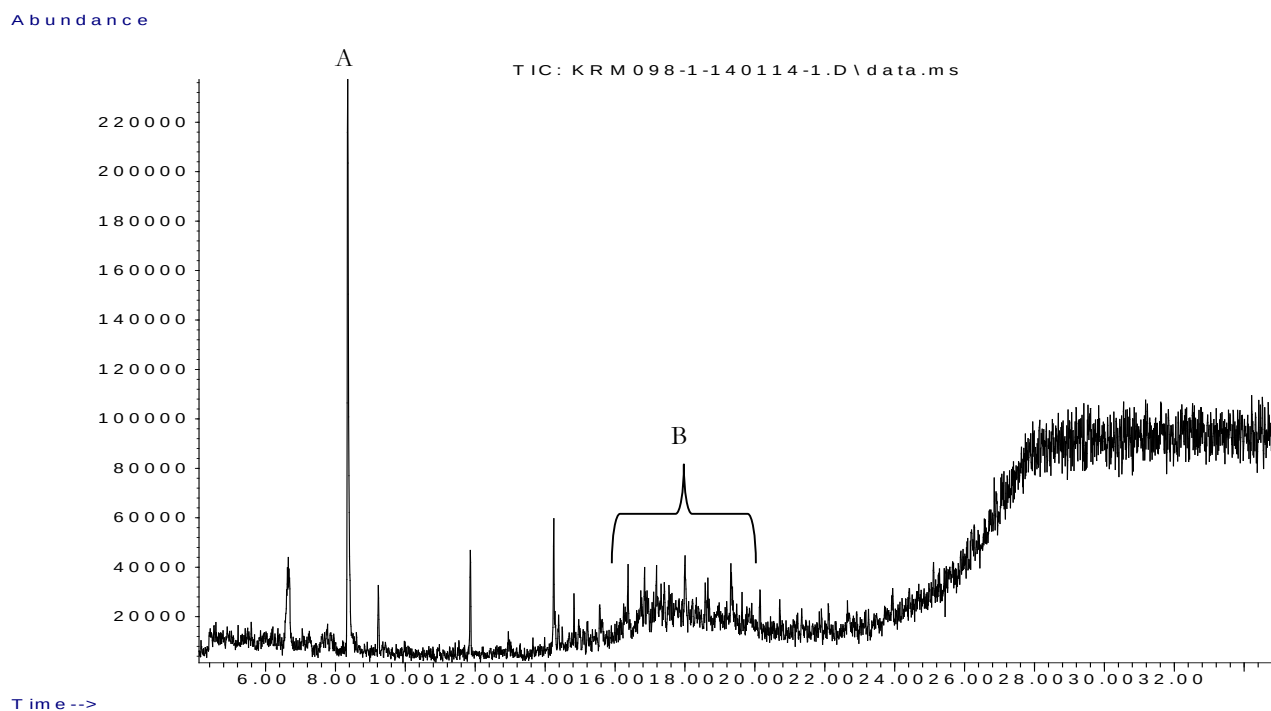
Chloroform Methanol Extraction Yield:	5.23mg/g
Potassium Hydroxide Extraction Yield:	0.03mg/g
Total Yield:	5.26mg/g

Major Peak:

Undecane

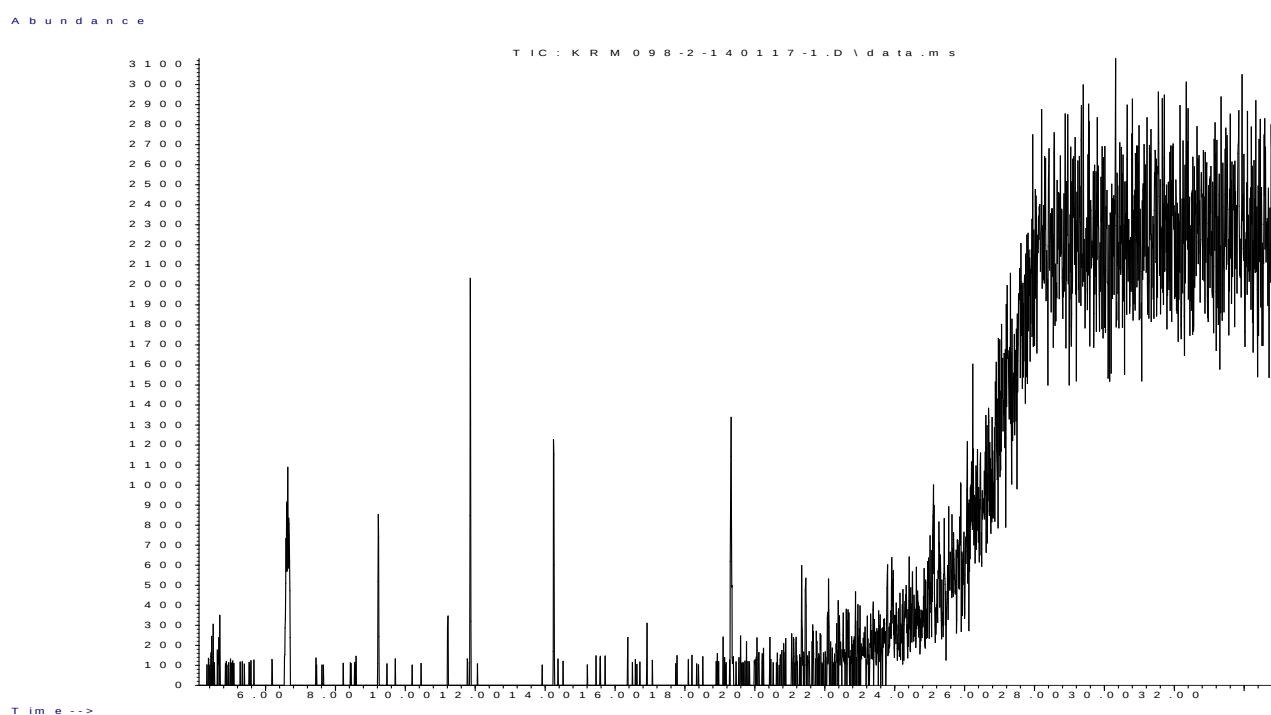
Secondary Peak:

Unidentified hydrocarbons



SAMPLE KRM098-001: Ioroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) a mixture of hydrocarbons. All others cyclosiloxanes.



SAMPLE KRM098-002: Potassium Hydroxide Extraction and FAME Derivatistaion
contaminants

KRM 099

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 3668, reference Nb55 p175. Sample drilled from handle sherd.

Sample Weight: 0.34194g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue: 0.00343g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00343g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 10.03mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 10.03mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

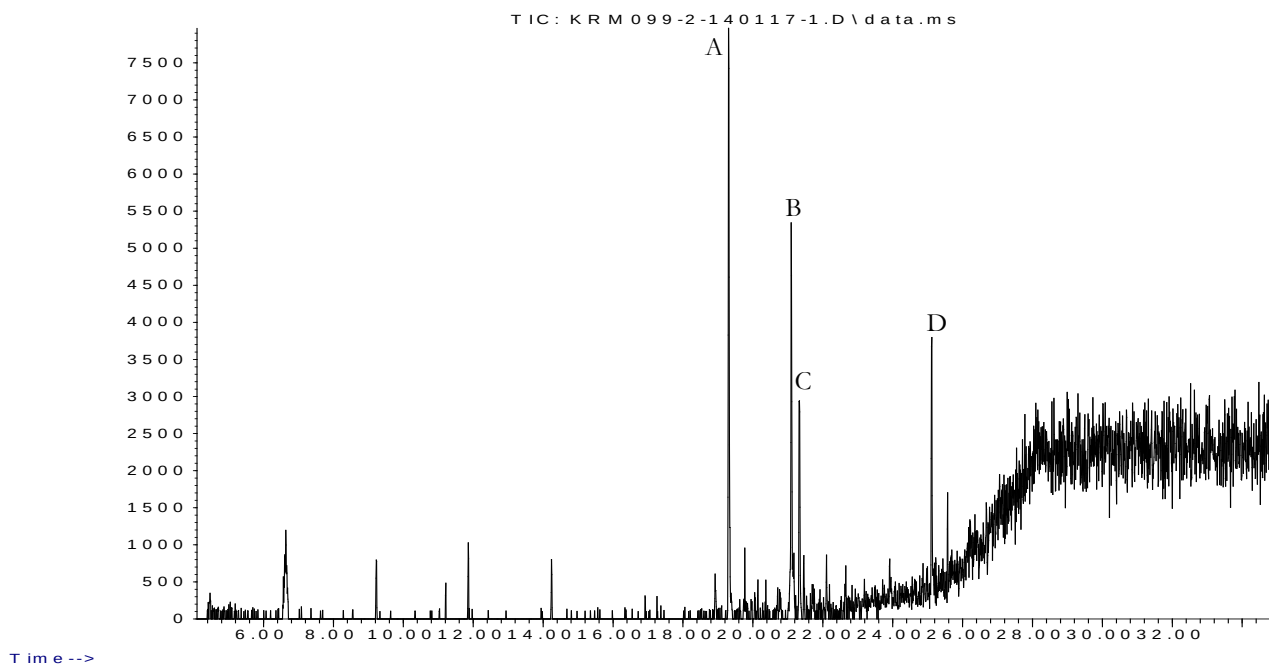
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

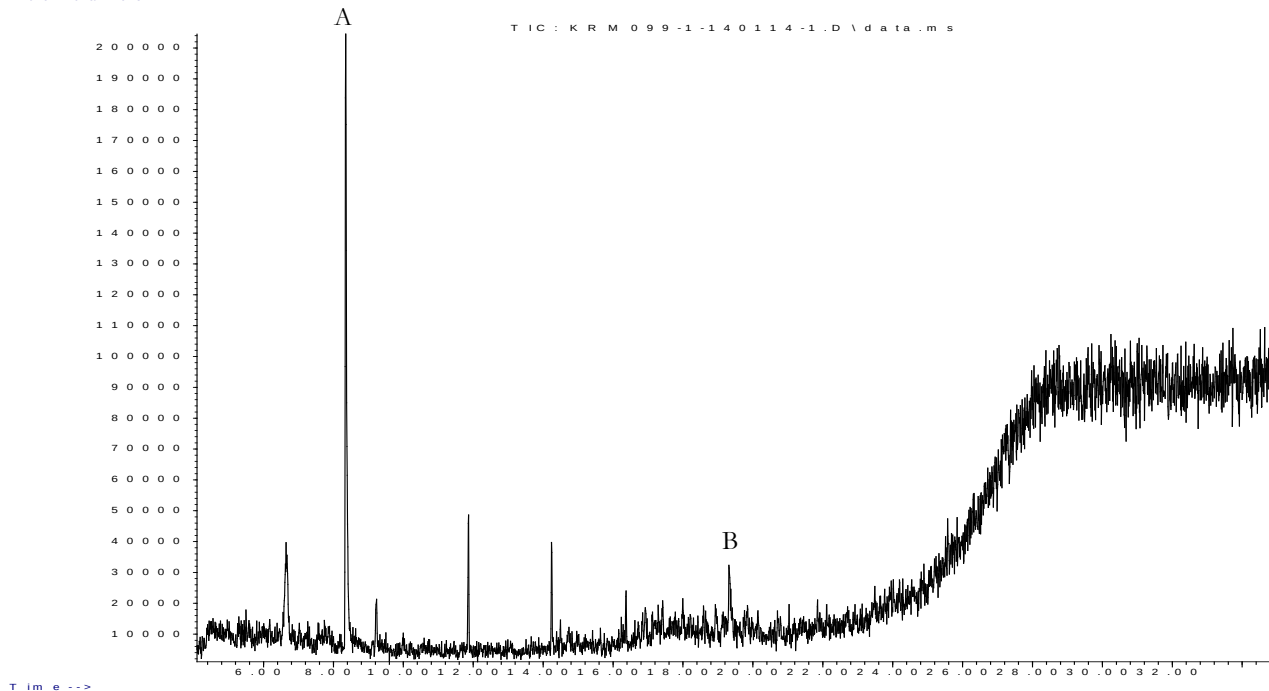
Abundance



SAMPLE KRM099-001: Chloroform/Methanol Extraction and FAME Derivatistation

- A) Hexadecanoic Acid, Methyl Ester B) Octadecenoic Acid, Methyl Ester C) Octadecanoic Acid, Methyl Ester.
D) Bis(2-ethylhexyl)Phthalate

Abundance



SAMPLE KRM099-002: Potassium Hydroxide Extraction and FAME Derivatistaion

- A) Undecane. B) Hexadecanoic Acid, Methyl Ester

KRM 100

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2662, reference Nb55 p169. Sample drilled from base sherd.

Sample Weight: 1.15720g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00208g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00208g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.80mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.80mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

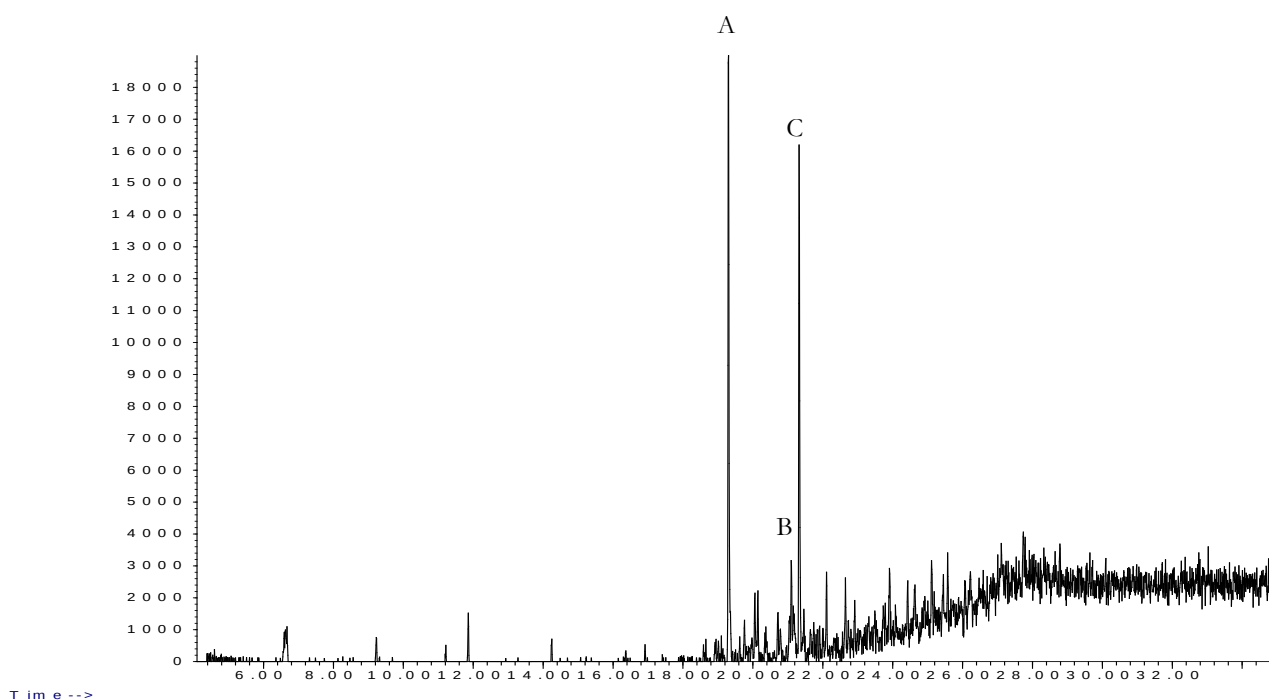
Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecenoic Acid, Methyl Ester

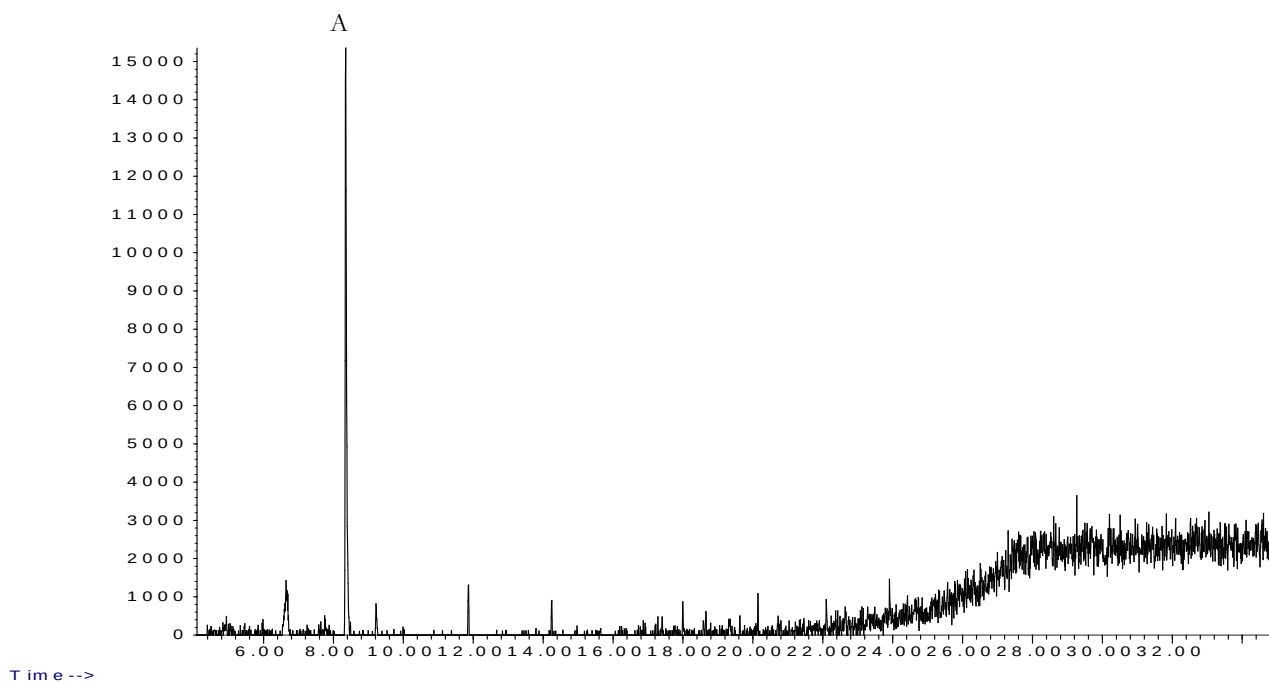
Undecane



SAMPLE KRM100-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Hexadecanoic Acid, Methyl Ester B) Octadecenoic Acid, Methyl Ester C) Octadecanoic Acid, Methyl Ester

SAMPLE KRM100-002: Potassium Hydroxide Extraction and FAME Derivatistaion



A) Undecane

KRM 101

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2662, reference Nb55 p169. Sample drilled from base sherd.

Sample Weight: 0.79063g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.00266g $\pm$ 0.00003g	(96.03%)
Potassium Hydroxide Extracted Residue:	0.00011g $\pm$ 0.00001g	(3.97%)
Total Extracted Residue:	0.00277g $\pm$ 0.00003g	

Chloroform Methanol Extraction Yield:	3.36mg/g
Potassium Hydroxide Extraction Yield:	0.14mg/g
Total Yield:	3.50mg/g

Major Peak:

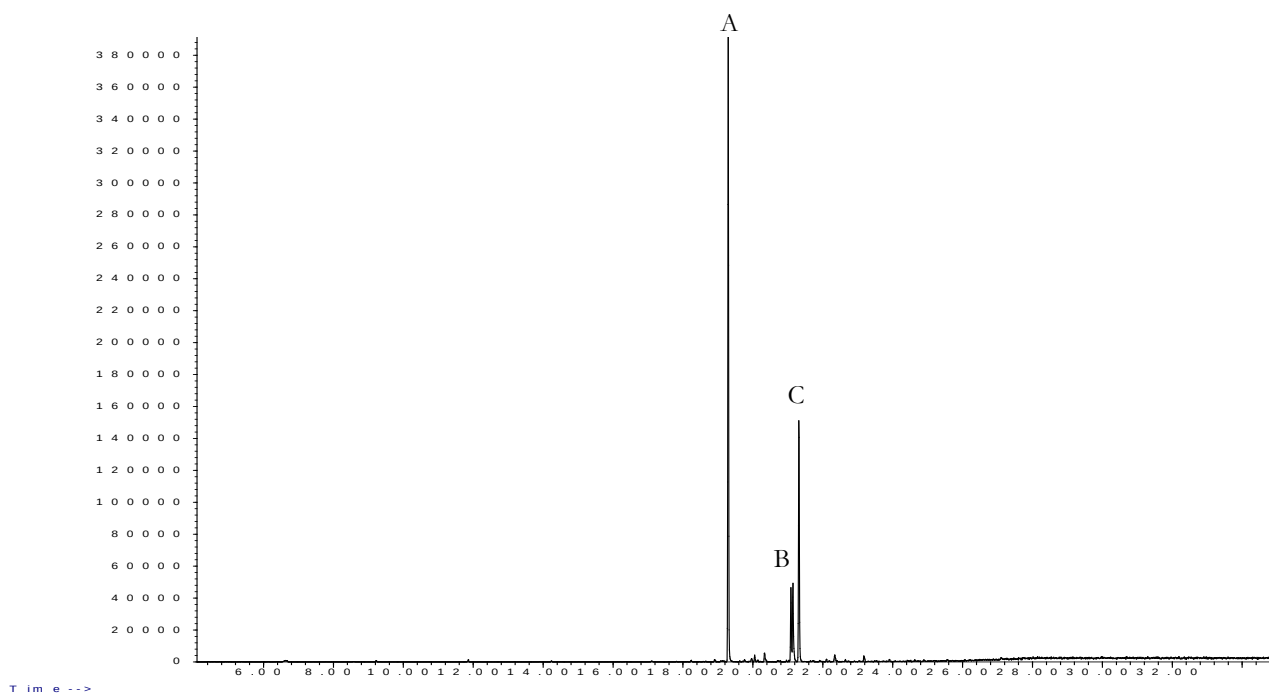
Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

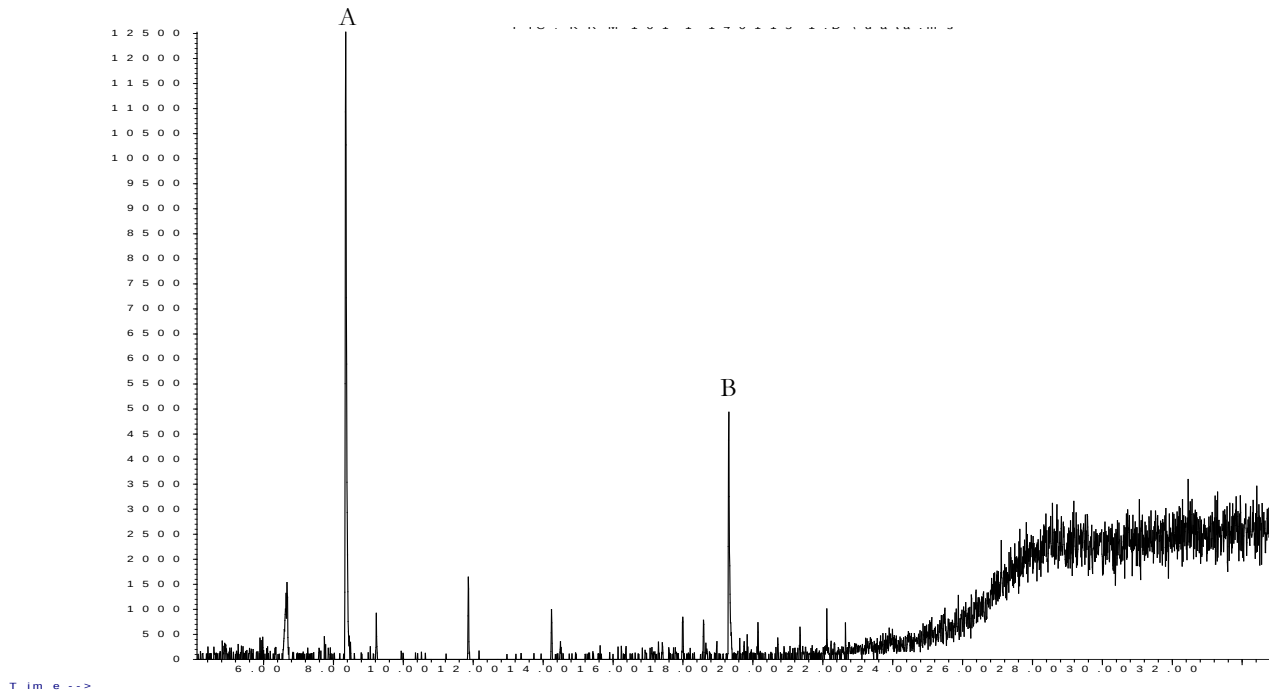
Other Peaks of Note:

Octadecenoic Acid, Methyl Ester (both 9 and 11 isomers)



SAMPLE KRM101-001: Chloroform/Methanol Extraction and FAME Derivatistation
 A) Hexadecanoic Acid, Methyl Ester. B) 9-Octadecenoic and 11-Octadecenoic Acid Methyl Esters, C)
 Octadecanoic Acid Methyl Ester

SAMPLE KRM101-002: Potassium Hydroxide Extraction and FAME Derivatistaion



A) Undecane B) Hexadecanoic Acid, Methyl Ester

KRM 102

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2659, reference Nb55 p165. Sample drilled from base sherd.

Sample Weight: $0.57776\text{g} \pm 0.00002\text{g}$

Chloroform Methanol Extracted Residue:	$0.00461\text{g} \pm 0.00003\text{g}$	(99.35%)
Potassium Hydroxide Extracted Residue:	$0.00003\text{g} \pm 0.00001\text{g}$	(0.65%)
Total Extracted Residue:	$0.00464\text{g} \pm 0.00003\text{g}$	

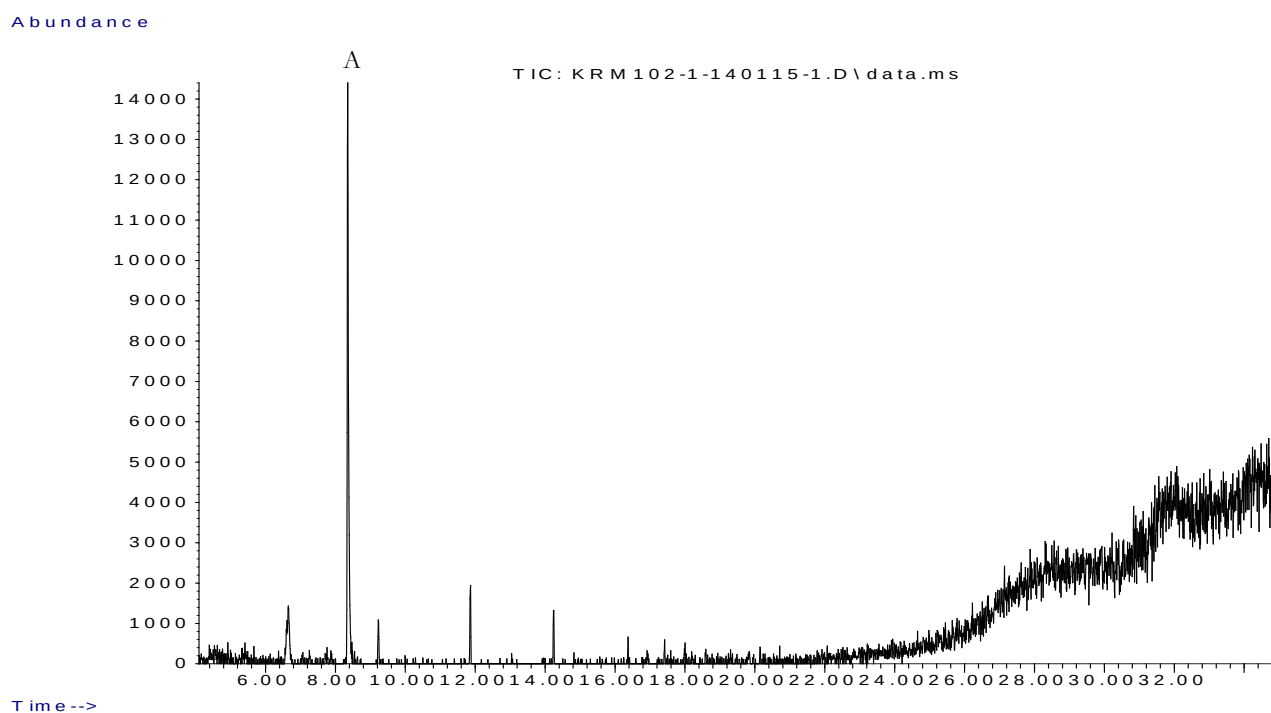
Chloroform Methanol Extraction Yield:	7.98mg/g
Potassium Hydroxide Extraction Yield:	0.05mg/g
Total Yield:	8.03mg/g

Major Peak:

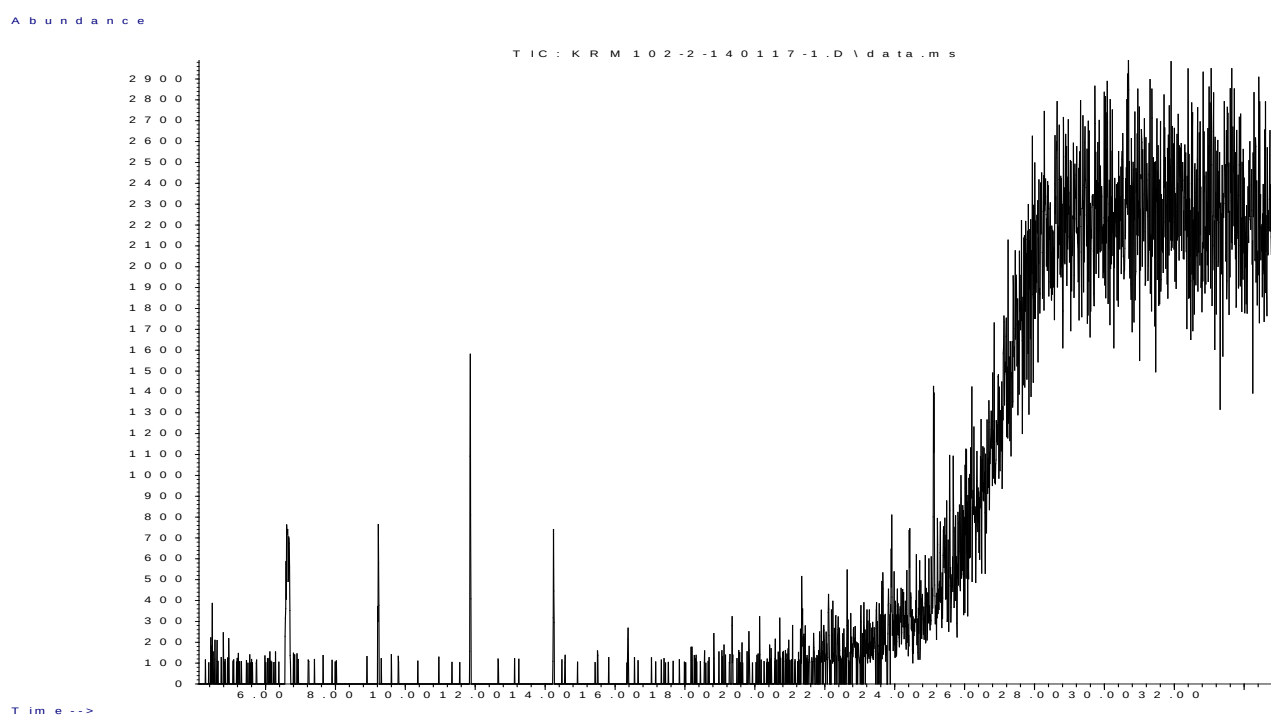
Undecane

Secondary Peak:

Siloxanes



SAMPLE KRM102-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) Undecane



SAMPLE KRM102-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes and phthaltes.

KRM 103

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2674, reference Nb55 p181. Sample drilled from base sherd.

Sample Weight: 0.94163g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00128g $\pm$ 0.00003g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00128g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.36mg/g

Potassium Hydroxide Extraction Yield: insignificant

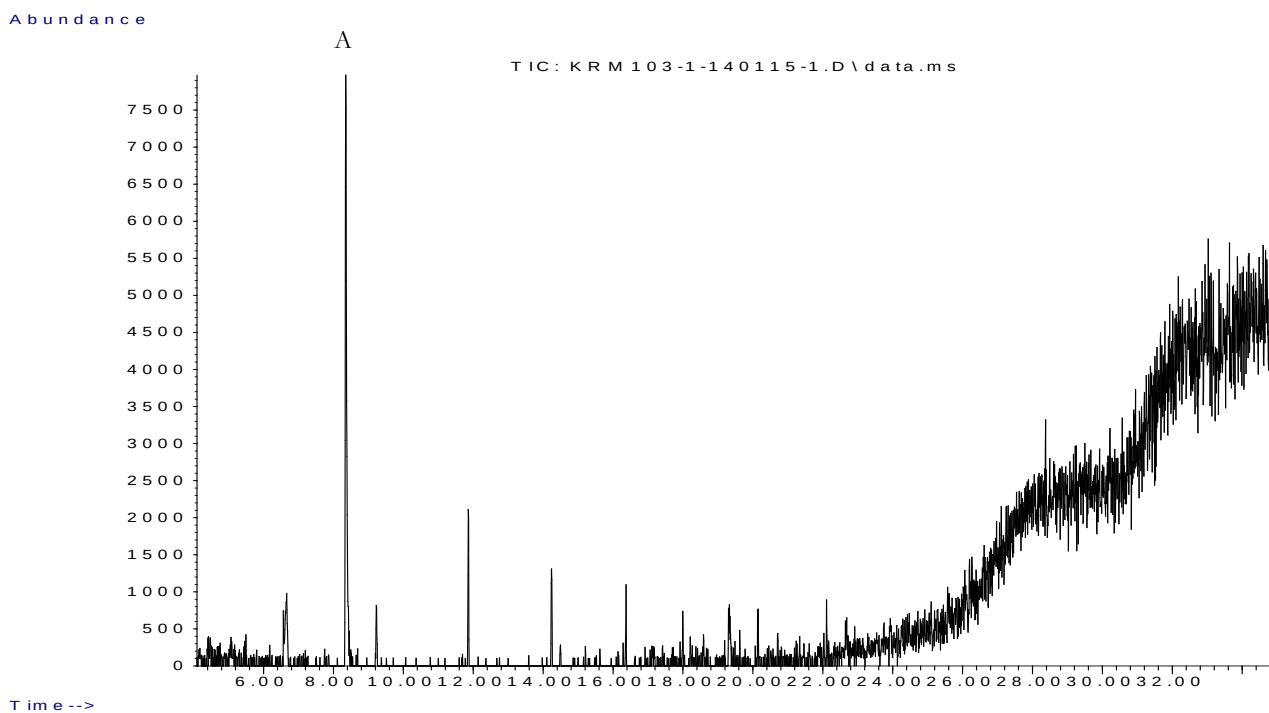
Total Yield: 1.36mg/g

Major Peak:

Undecane

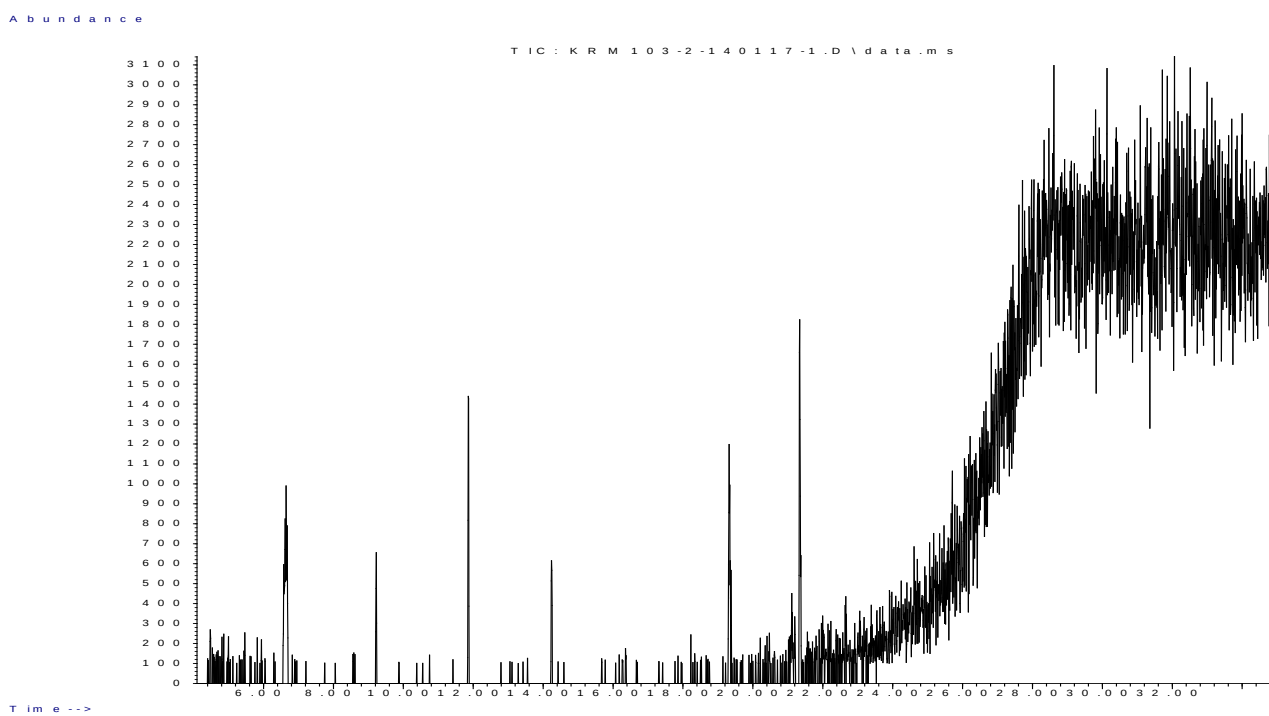
Secondary Peak:

Siloxanes



SAMPLE KRM103-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes.



SAMPLE KRM103-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All contaminants

KRM 104

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2662, reference Nb55 p169. Sample drilled from sherd from a storage jar.

Sample Weight: 1.39141g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00034g $\pm$ 0.00004g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00034g $\pm$ 0.00004g

Chloroform Methanol Extraction Yield: 0.24mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.24mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

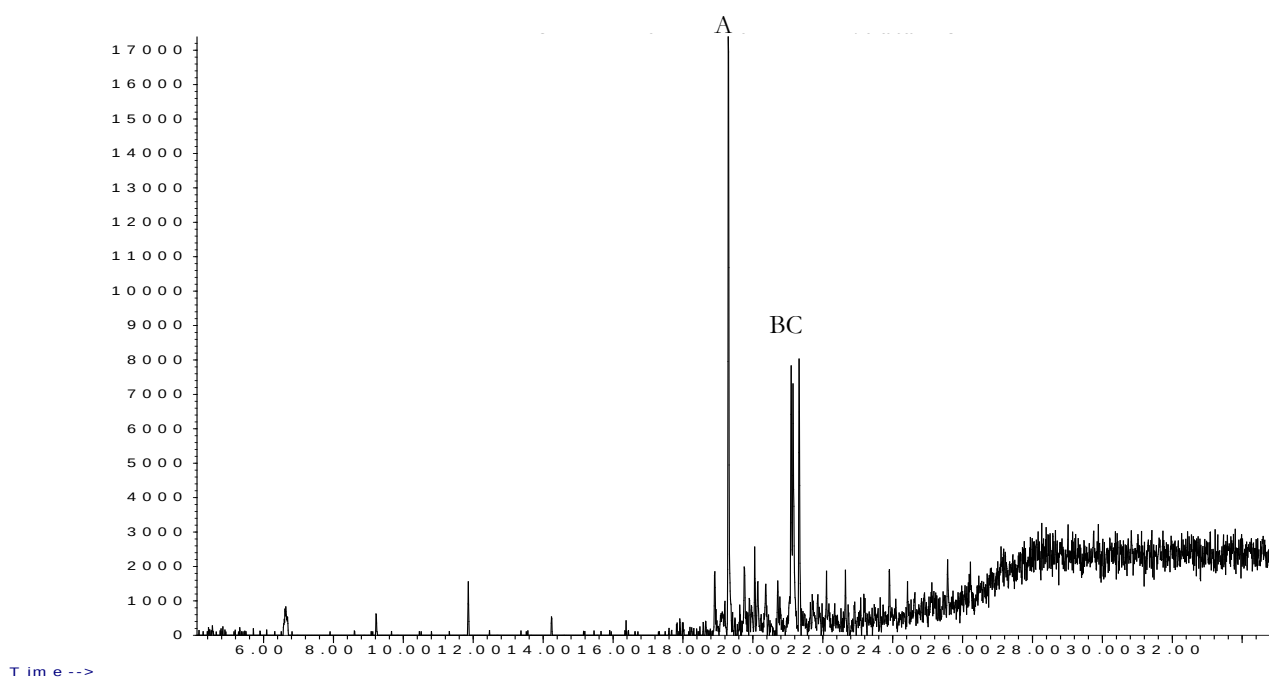
Secondary Peak:

Octadecenoic Acid Methyl Ester (9 and 11 isomers)

Octadecanoic Acid, Methyl Ester

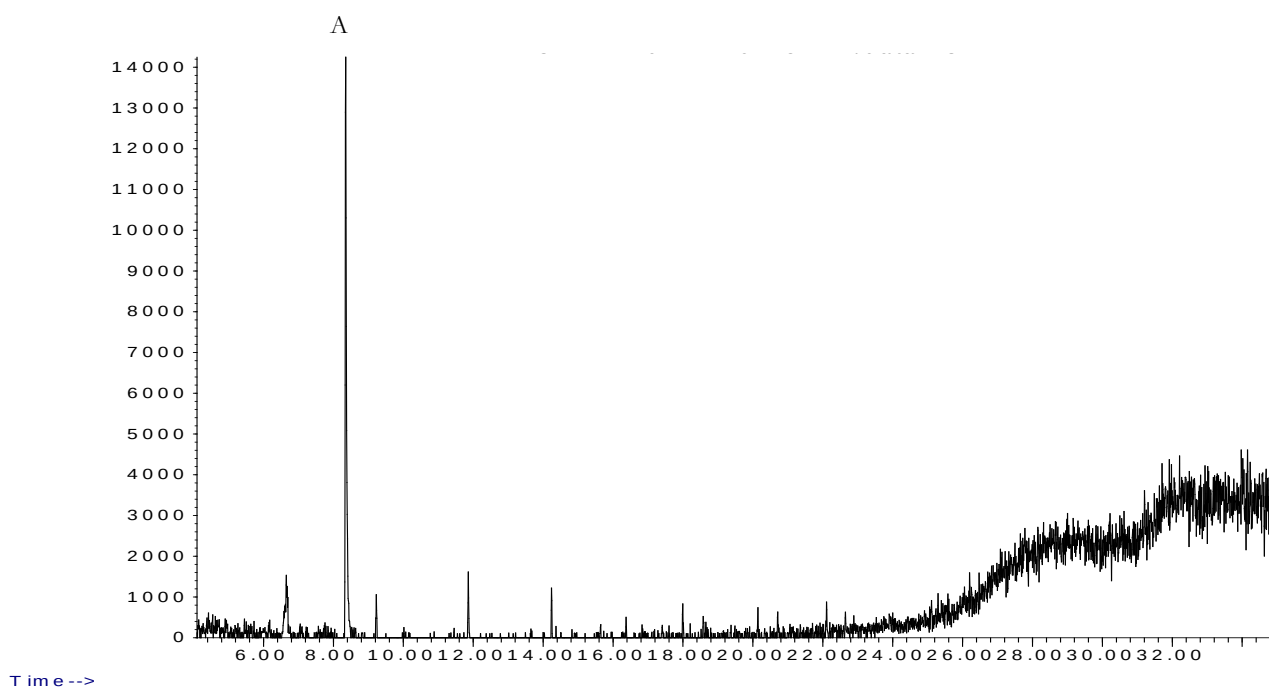
Other Peaks of Note:

Undecane



SAMPLE KRM104-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Hexadecanoic Acid, Methyl Ester B) Octadecenoic Acid, Methyl Ester. C) Octadecanoic Scid, Methyl Ester



SAMPLE KRM104-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Undecane. All others siloxanes

KRM 105

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-N, locus 11, pottery bucket 956, vessel P.956.3, reference Nb59 p245. Sample drilled from a bowl.

Sample Weight: 1.48051g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00310g $\pm$ 0.00003g	(98.10%)
Potassium Hydroxide Extracted Residue:	0.00006g $\pm$ 0.00001g	(1.90%)
Total Extracted Residue:	0.00316g $\pm$ 0.00003g	

Chloroform Methanol Extraction Yield:	2.09mg/g
Potassium Hydroxide Extraction Yield:	0.04mg/g
Total Yield:	2.13mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

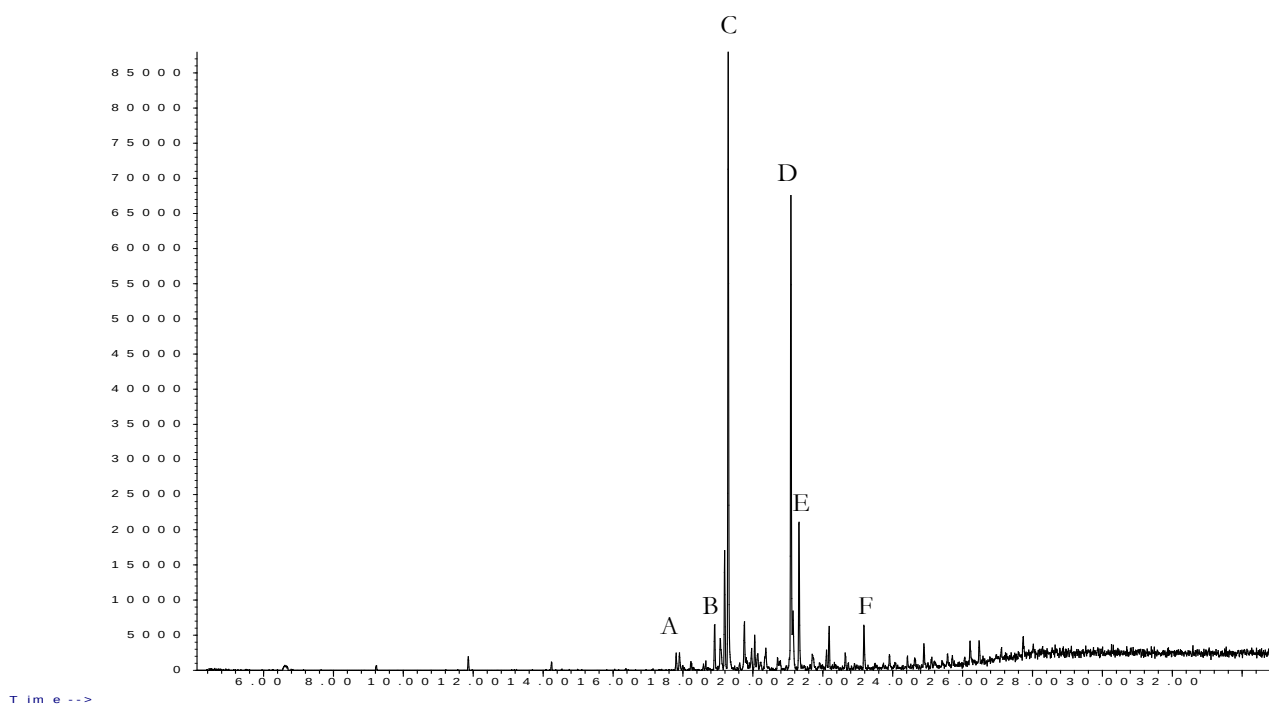
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

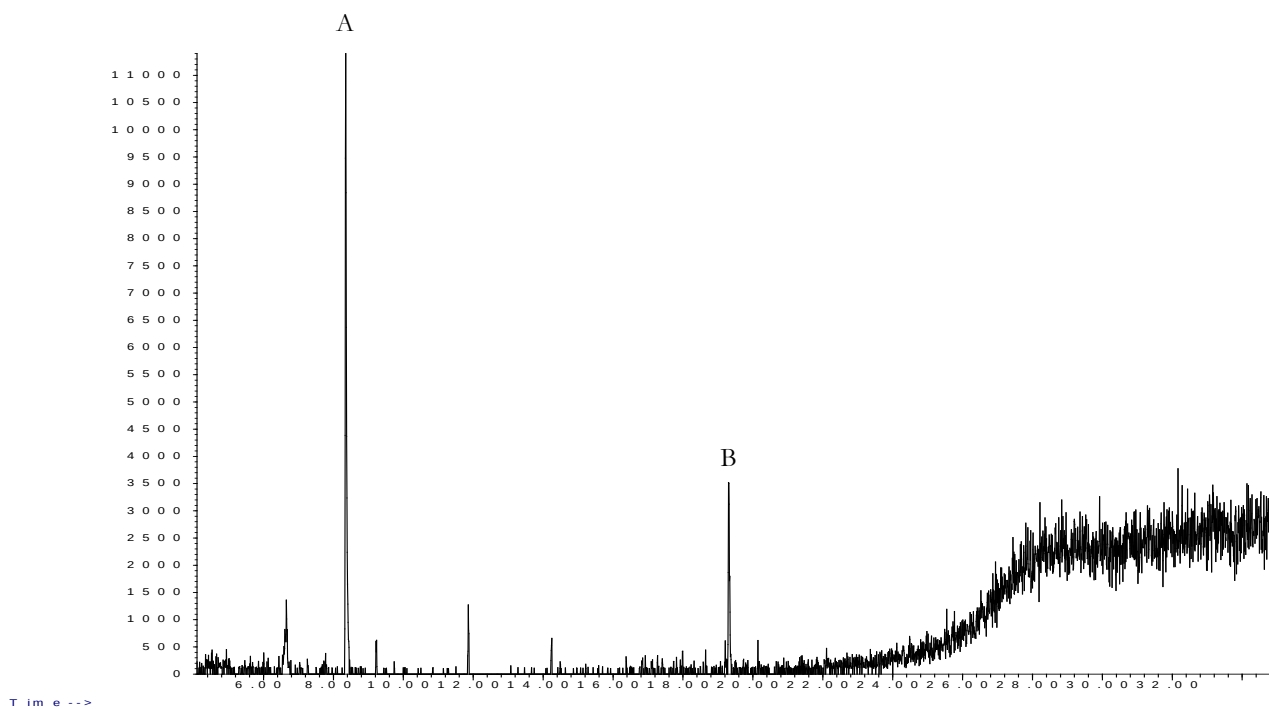
Alkanoic Acid Methyl Esters: C_{16:0}, C_{17:0} (?), C_{18:0}, C_{20:0}

Alkenoic Acid Methyl Esters: C_{16:1}, C_{18:1}



SAMPLE KRM105-001: roform/Methanol Extraction and FAME Derivatistation

A) an alkanolic acid, methyl ester B) Hexadecenoic Acid, Methyl Ester. C) Hexadecanoic acid, Methyl Ester D) Octadecenoic Acid, Methyl Ester E) Octadecanoic Acid Methyl Ester F) Eicosanoic Acid, Methyl Ester



SAMPLE KRM105-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Undecane. B) Hexadecanoic Acid, Methyl Ester

KRM 106

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 3668, reference Nb55 p175. Sample drilled from a body sherd.

Sample Weight: 1.35067g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue: 0.00125g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00125g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.25mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.25mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

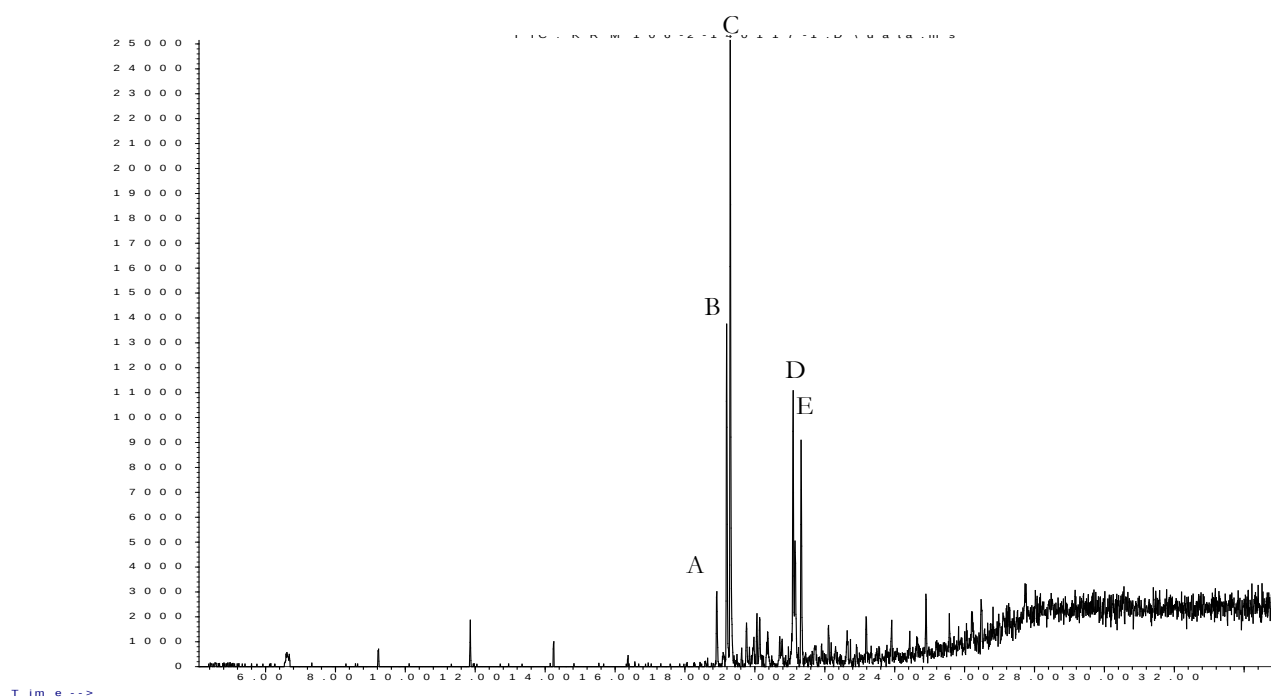
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

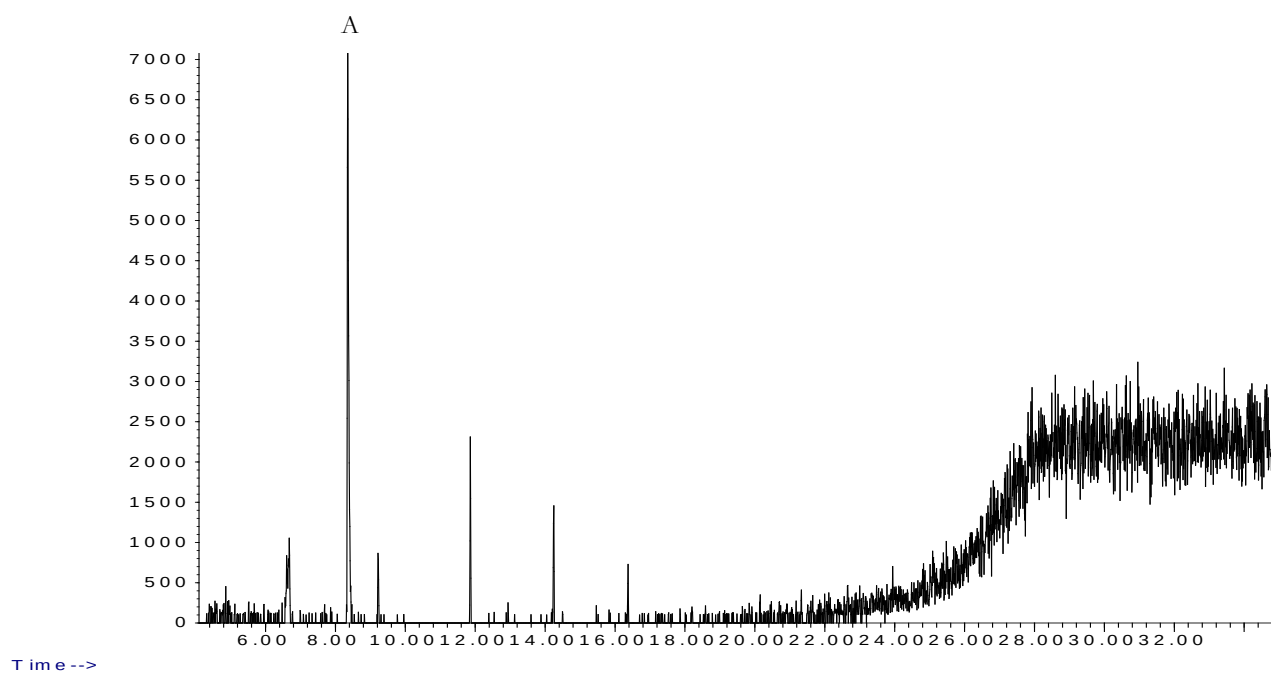
Octadecanoic Acid, Methyl Ester

Hexadecenoic Acid, Methyl Ester



SAMPLE KRM106-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) an alkanolic acid(?) B) Hexadecenoic acid methyl ester C) hexadecanoic Acid, Methyl Ester D) Octadecenoic Acid (9 and 11 isomers) E) Octadecanoic Acid, Methyl Ester



SAMPLE KRM106-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Undecane

KRM 107

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2659, reference Nb55 p165. Sample drilled from a bowl/juglet (?) sherd.

Sample Weight: 1.18091g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00230g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00230g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.95mg/g

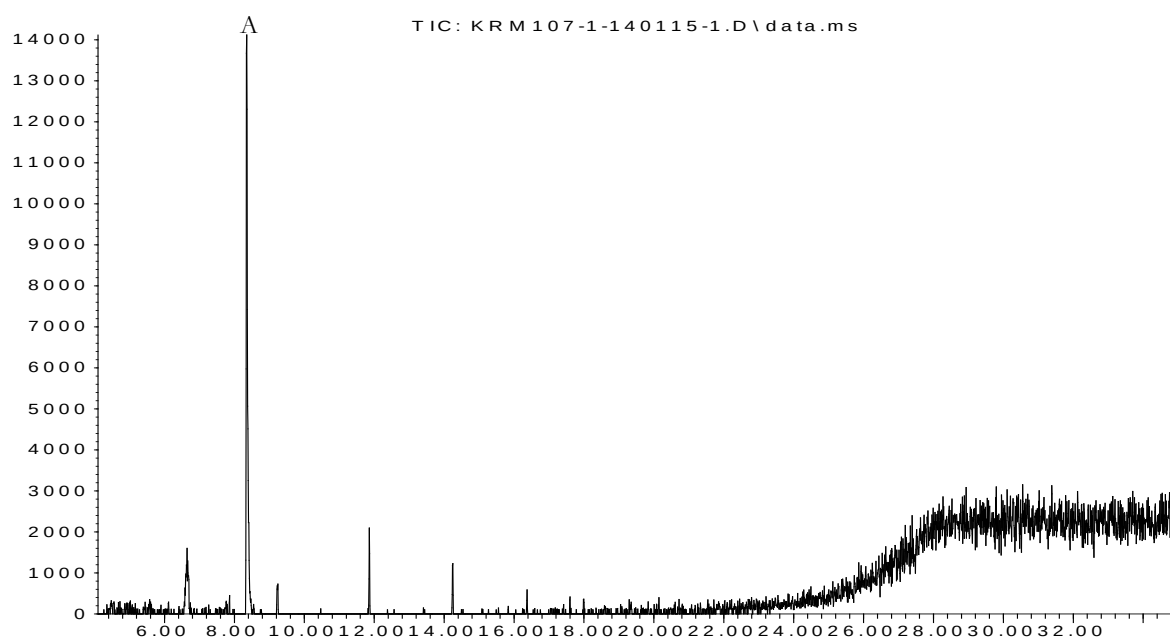
Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.95mg/g

Major Peak:

Undecane

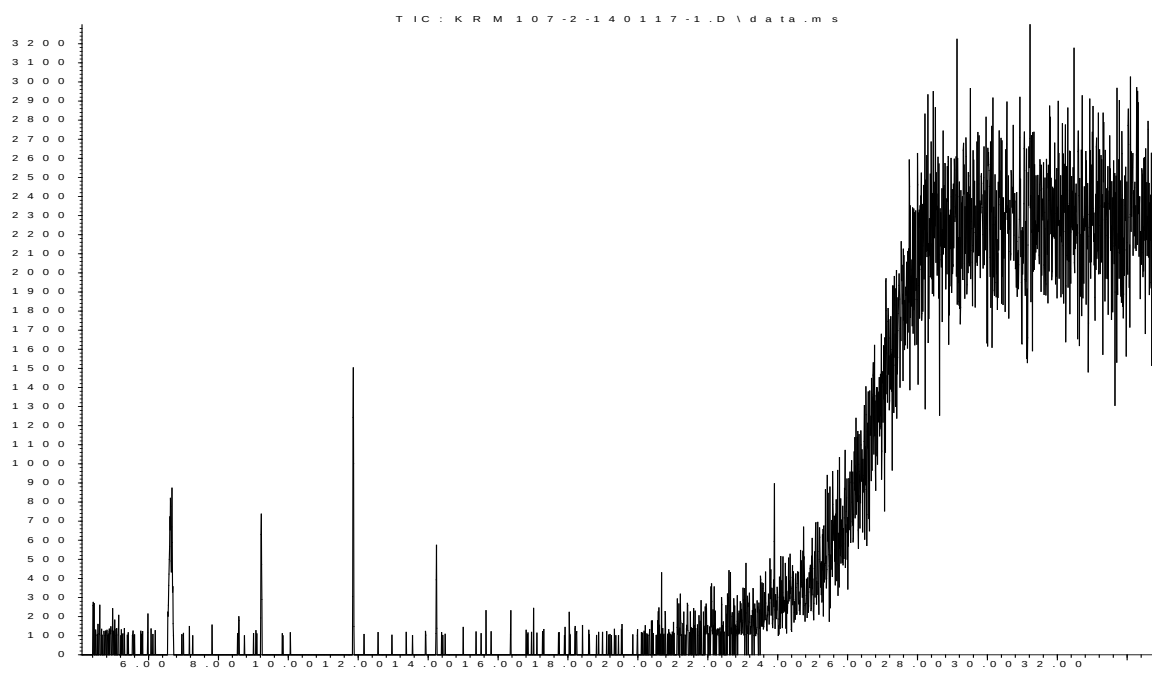
Abundance



SAMPLE KRM107-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane

Abundance



SAMPLE KRM107-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 108

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2662, reference Nb55 p169. Sample drilled from sherd.

Sample Weight: 0.86889g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.01048g $\pm$ 0.00001g	(99.34%)
Potassium Hydroxide Extracted Residue:	0.00007g $\pm$ 0.00001g	(0.66%)
Total Extracted Residue:	0.01055g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	12.06mg/g
Potassium Hydroxide Extraction Yield:	0.08mg/g
Total Yield:	12.14mg/g

Major Peak:

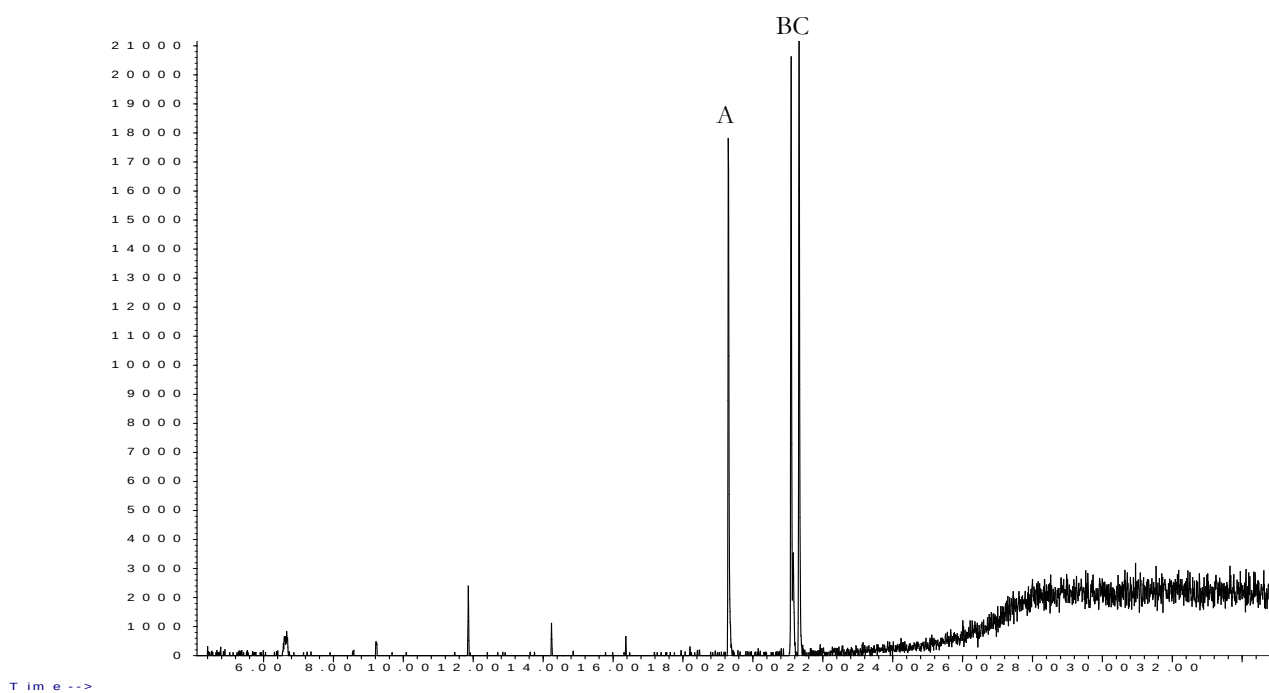
Octadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecenoic Acid, Methyl Ester

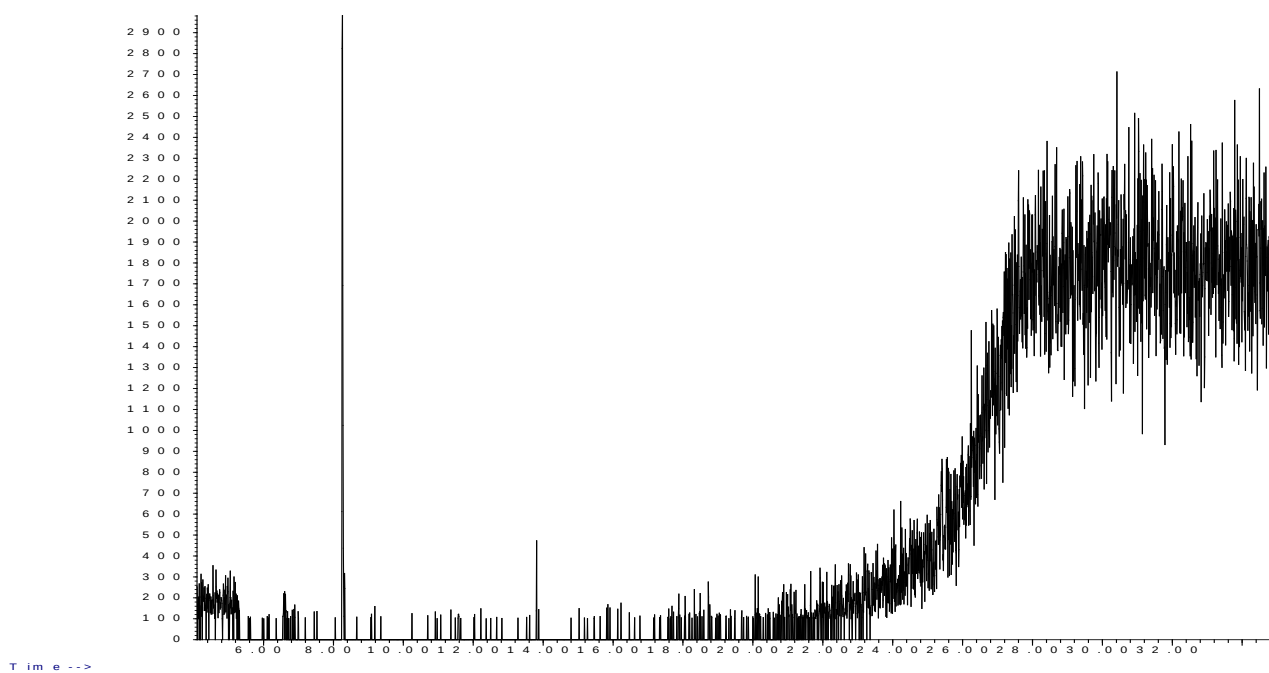
Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester



SAMPLE KRM108-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Hexadecanoic Acid, Methyl Ester B) Octadecenoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester



SAMPLE KRM108-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Undecane

KRM 109

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 3668, reference Nb55 p175. Sample drilled from base sherd.

Sample Weight: $0.54363\text{g} \pm 0.00002\text{g}$

Chloroform Methanol Extracted Residue: $0.00110\text{g} \pm 0.00001\text{g}$

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: $0.00110\text{g} \pm 0.00001\text{g}$

Chloroform Methanol Extraction Yield: 2.02mg/g

Potassium Hydroxide Extraction Yield: insignificant

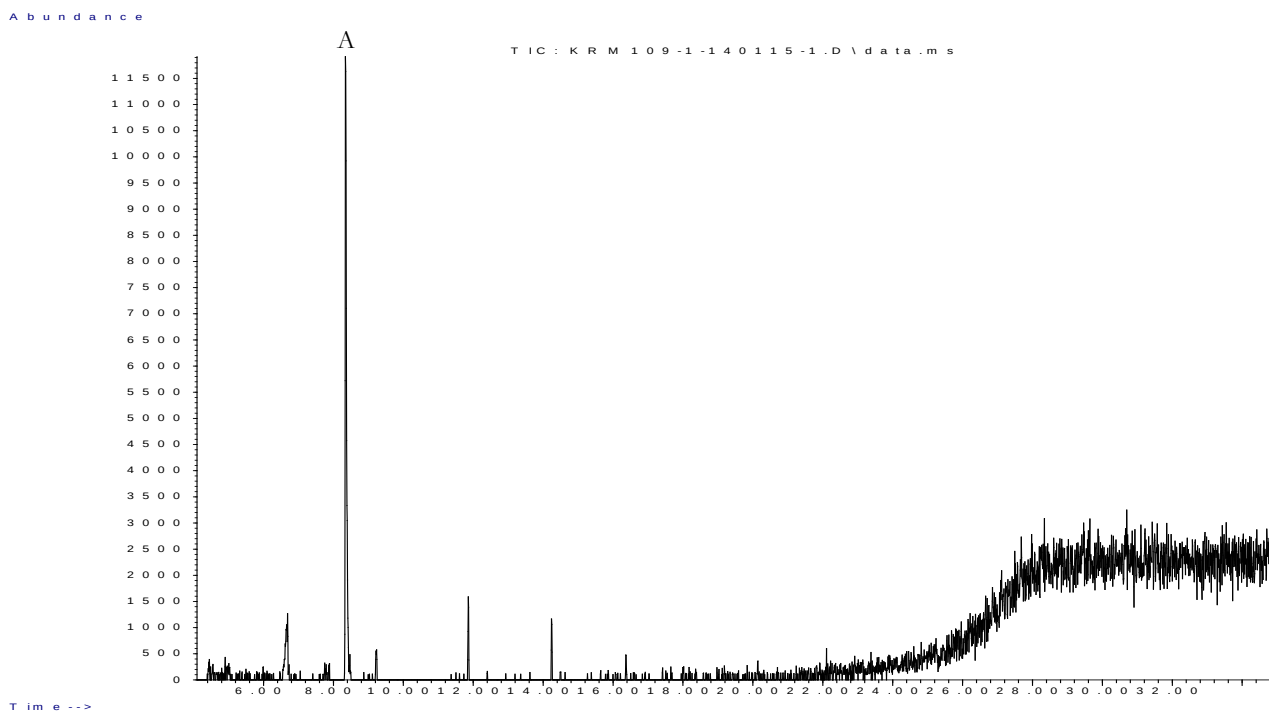
Total Yield: 2.02mg/g

Major Peak:

Undecane

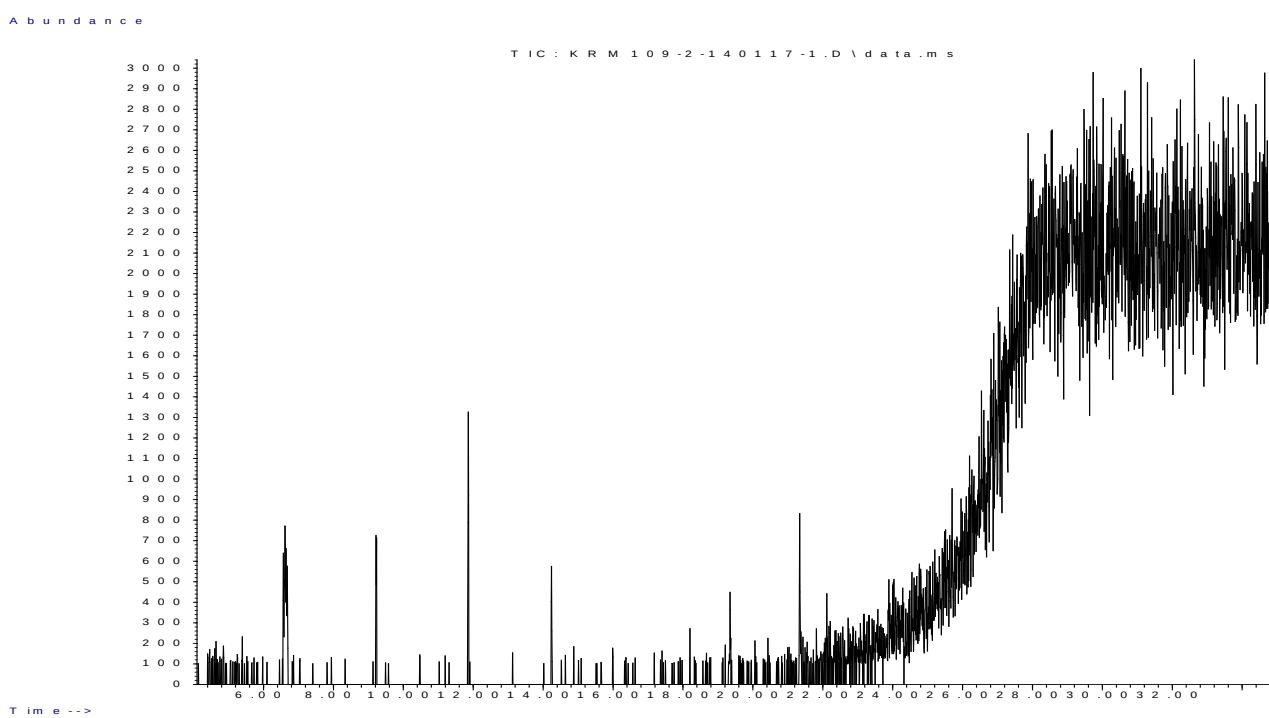
Secondary Peak:

Siloxanes



SAMPLE KRM109-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes



SAMPLE KRM109-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All siloxanes

KRM 110

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2659, reference Nb55 p165. Sample drilled from a base sherd of a jar.

Sample Weight: 1.37661g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00263g $\pm$ 0.00003g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00263g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.91mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.91mg/g

Major Peak:

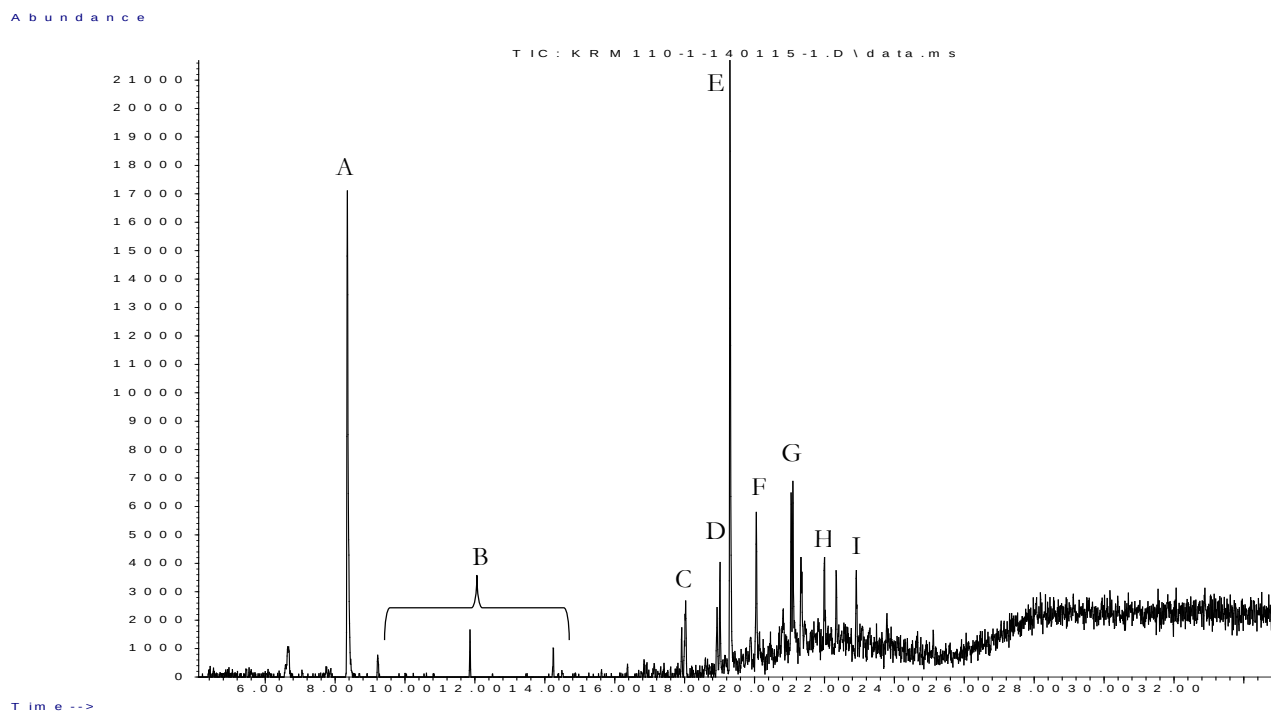
Octadecenoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

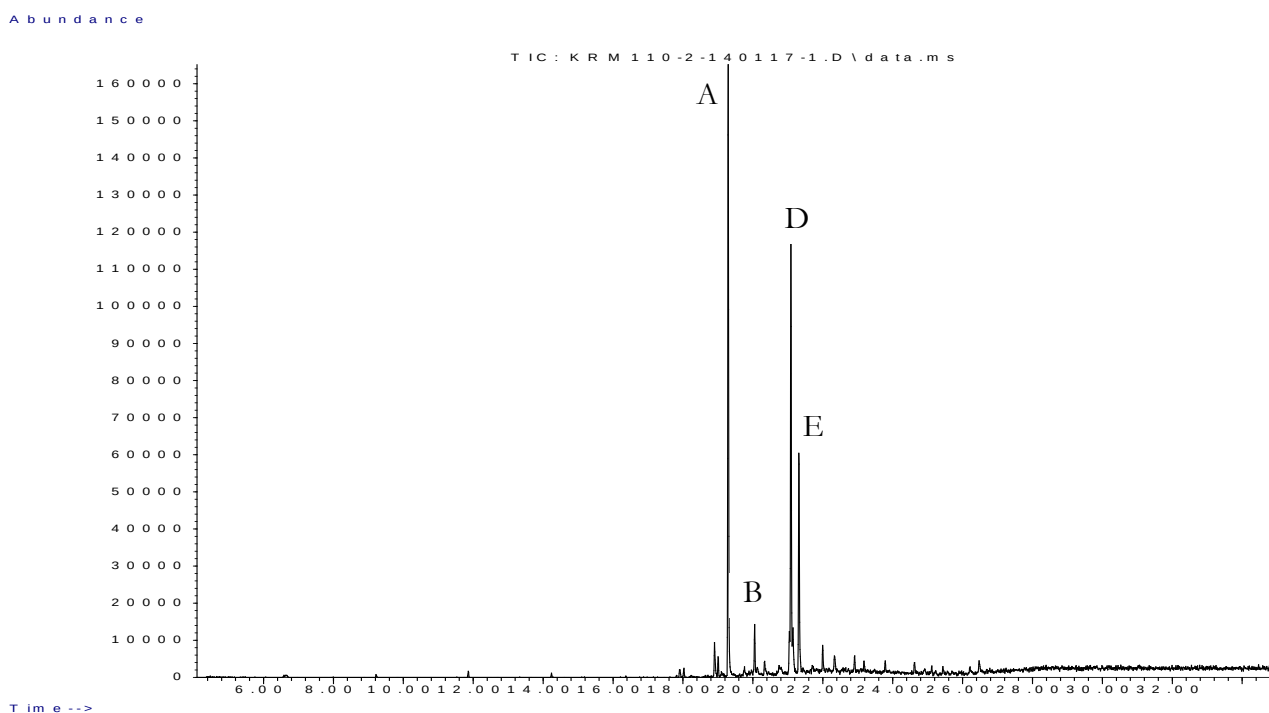
Other Peaks of Note:

Cosanes



SAMPLE KRM110-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) siloxanes. C) Hexadecanoic Acid, Methyl Ester. D) Heptadecanoic Acid, Methyl Ester. E) Octadecenoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester. G) Heptacosane. H) Octacosane. I) Nonacosane.



SAMPLE KRM110-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Heptadecane. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester.

KRM 111

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 57, pottery bucket 2675, reference Nb55 p182. Sample drilled from a dot-decorated sherd.

Sample Weight: 1.39171g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00403g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00403g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 2.90mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 2.90mg/g

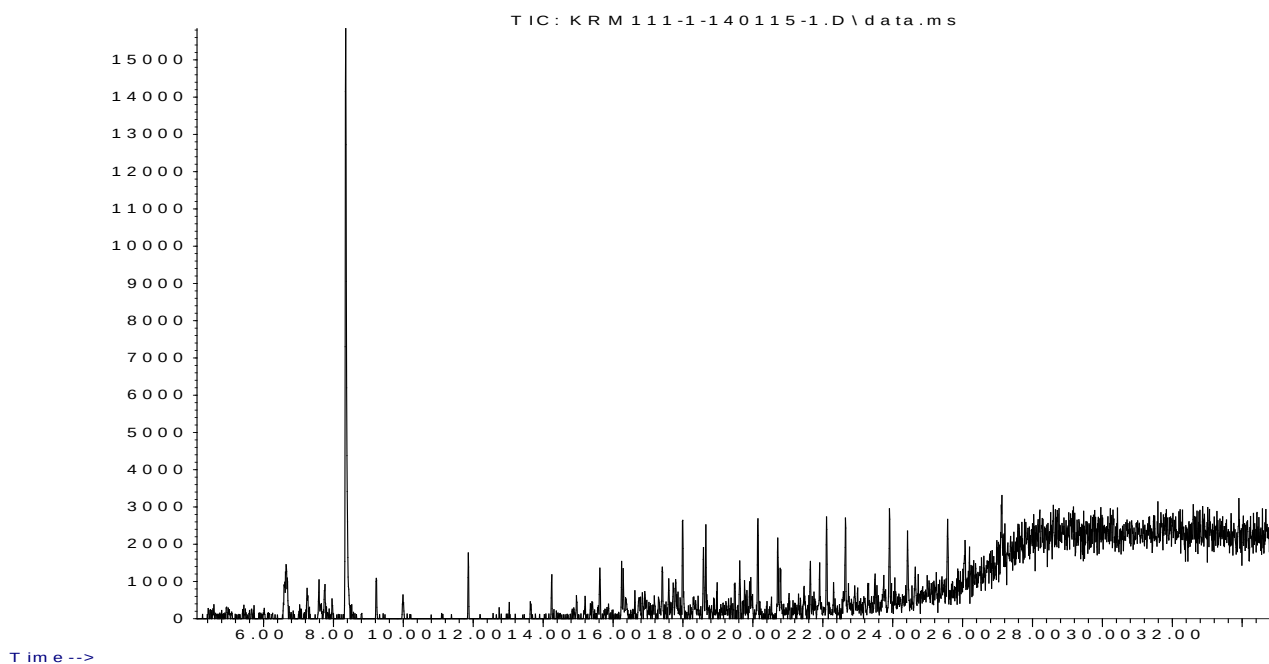
Major Peak:

Undecane

Secondary Peak:

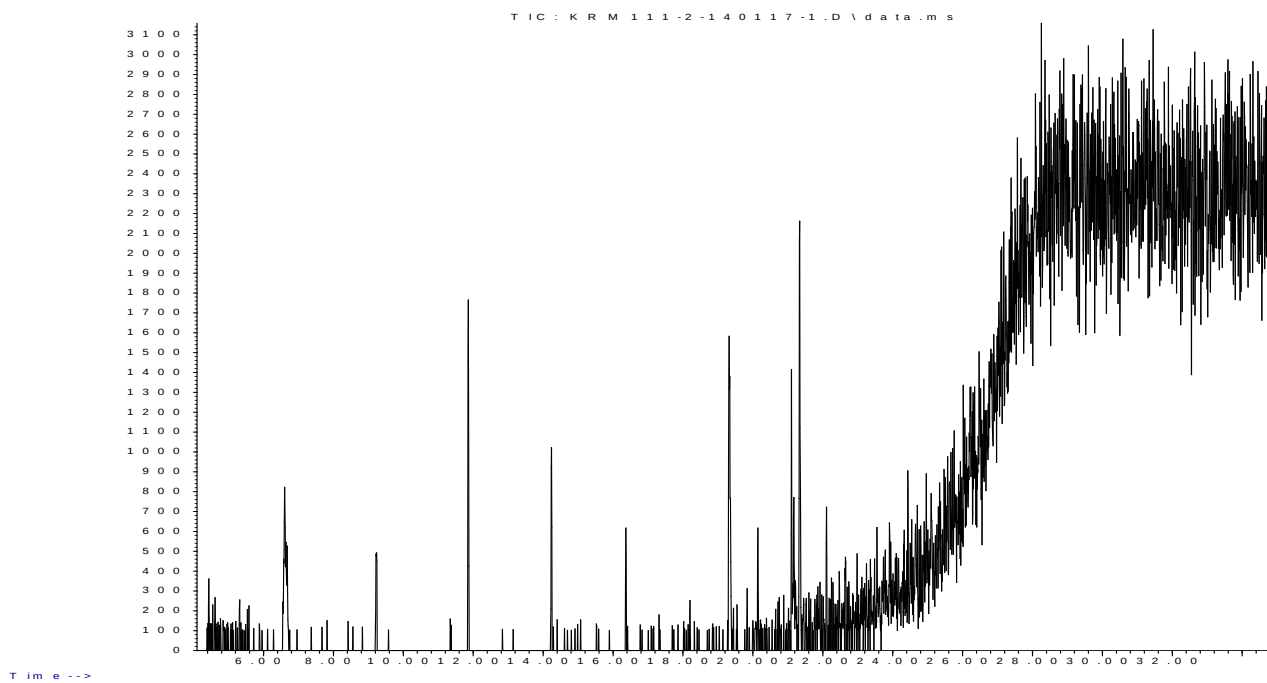
Siloxanes and phthalate plasticisers

Abundance



SAMPLE KRM111-001: oroform/Methanol Extraction and FAME Derivatistation
Undecane

Abundance



SAMPLE KRM111-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Siloxanes and phthalate plasticisers.

KRM 112

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2669, reference Nb55 p180. Sample drilled from a sherd from a juglet/jar.

Sample Weight: $0.52849\text{g} \pm 0.00001\text{g}$

Chloroform Methanol Extracted Residue: $0.00214\text{g} \pm 0.00003\text{g}$

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: $0.00214\text{g} \pm 0.00003\text{g}$

Chloroform Methanol Extraction Yield: 4.05mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 4.05mg/g

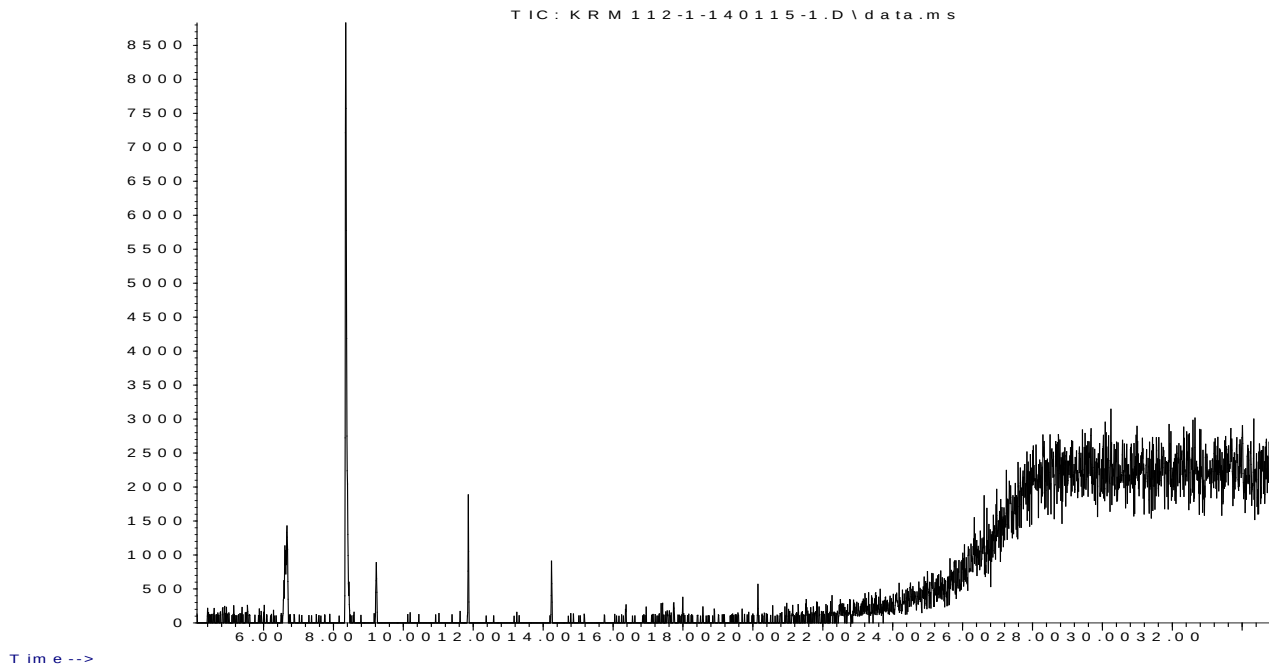
Major Peak:

Undecane

Secondary Peak:

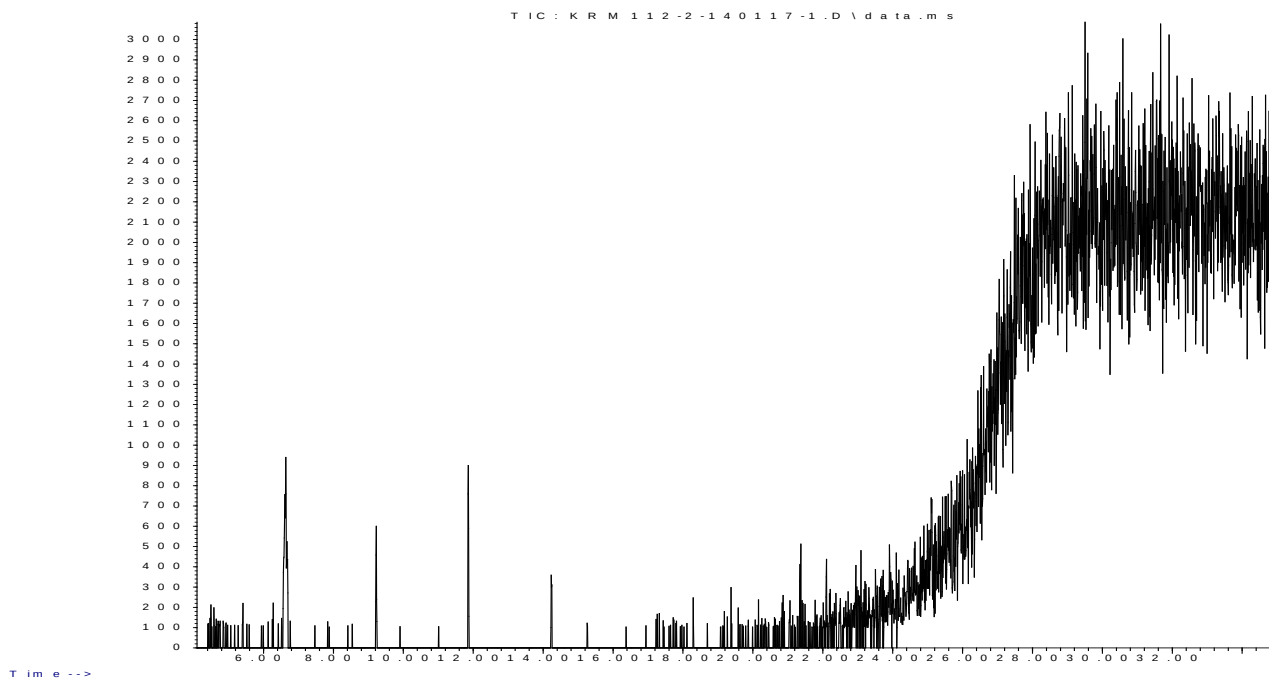
Siloxanes

Abundance



SAMPLE KRM112-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane and siloxanes

Abundance



SAMPLE KRM112-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes

KRM 113

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area Q-NE, locus 58, pottery bucket 4600, vessel P.4600.10, reference Nb51 p47. Sample drilled from base of 2-handled jug.

Sample Weight: 1.83874g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.00112g $\pm$ 0.00001g	(82.96%)
Potassium Hydroxide Extracted Residue:	0.00023g $\pm$ 0.00001g	(17.04%)
Total Extracted Residue:	0.00135g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	0.61mg/g
Potassium Hydroxide Extraction Yield:	0.13mg/g
Total Yield:	0.73mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

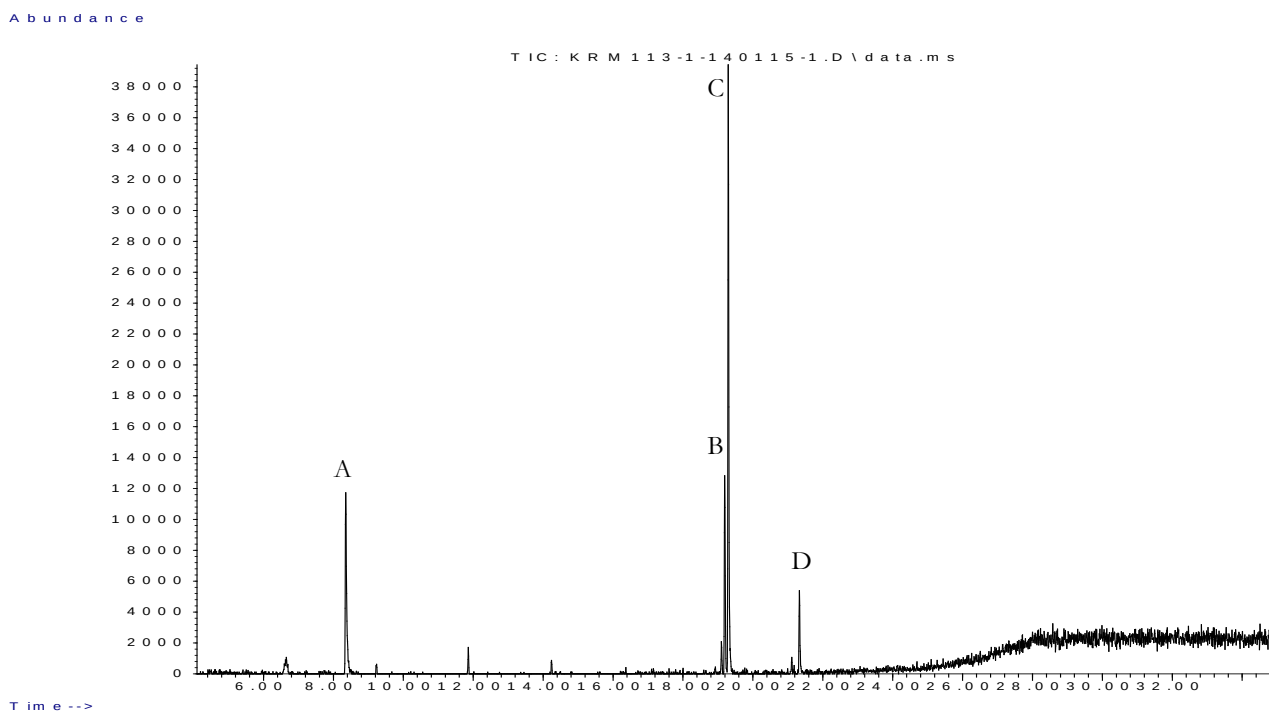
Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

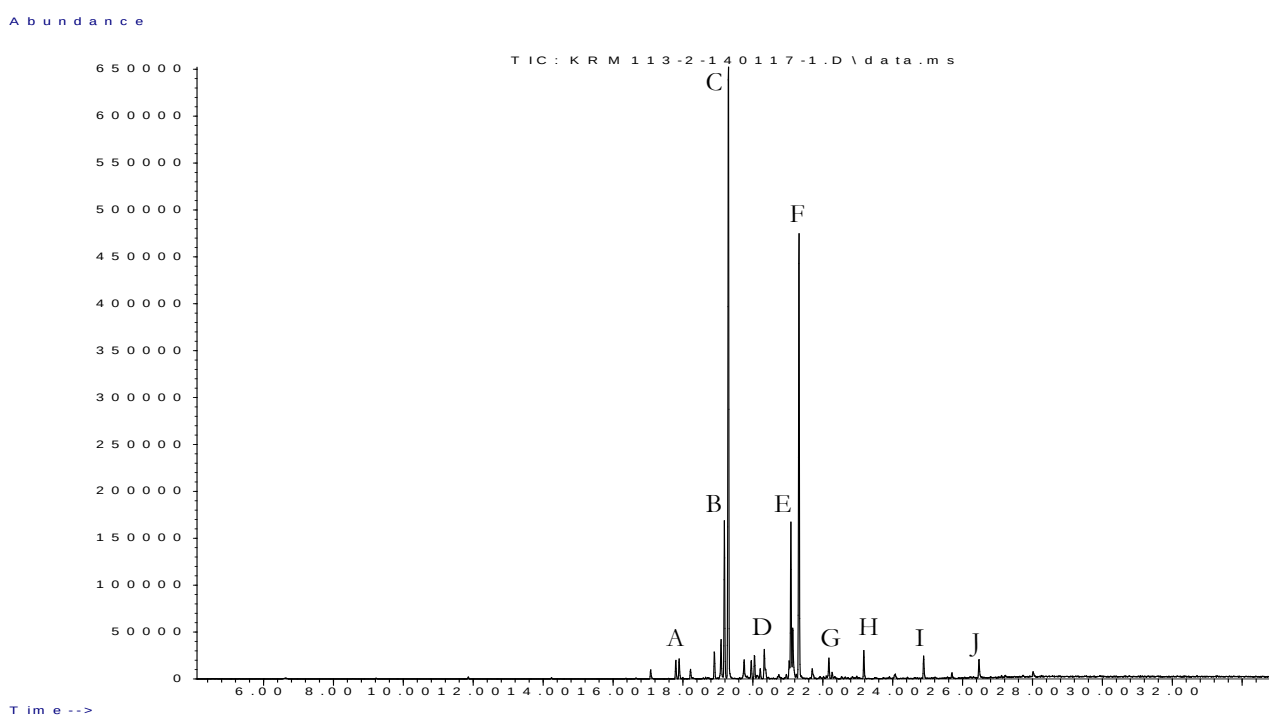
Alkanoic Acid Methyl Esters: C_{14:0}, C_{16:0}, C_{17:0}, C_{18:0}, C_{19:0}, C_{20:0}, C_{22:0} C_{24:0}

Alkenoic Acids: C_{16:1}, C_{18:1}



SAMPLE KRM113-001: Ioroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Hexadecenoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester D) Octadecanoic Acid, Methyl Ester



SAMPLE KRM113-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester B) Hexadecenoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester
D) Heptadecanoic Acid, Methyl Ester E) Octadecenoic Acid, Methyl Ester F) Octadecanoic Acid, M ethyl
Ester G) Nonadecanoic Acid, Methyl Ester H) Eicosanoic Acid, Methyl Ester I) Docosanoic Acid, Methyl
Ester J) Tetracosanoic Acid, Methyl Ester

KRM 114

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2665, reference Nb55 p172. Sample drilled from base sherd.

Sample Weight: 0.63102g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00055g $\pm$ 0.00001g	(88.71%)
Potassium Hydroxide Extracted Residue:	0.00007g $\pm$ 0.00001g	(11.29%)
Total Extracted Residue:	0.00062g $\pm$ 0.00001g	

Chloroform Methanol Extraction Yield:	0.87mg/g
Potassium Hydroxide Extraction Yield:	0.11mg/g
Total Yield:	0.98mg/g

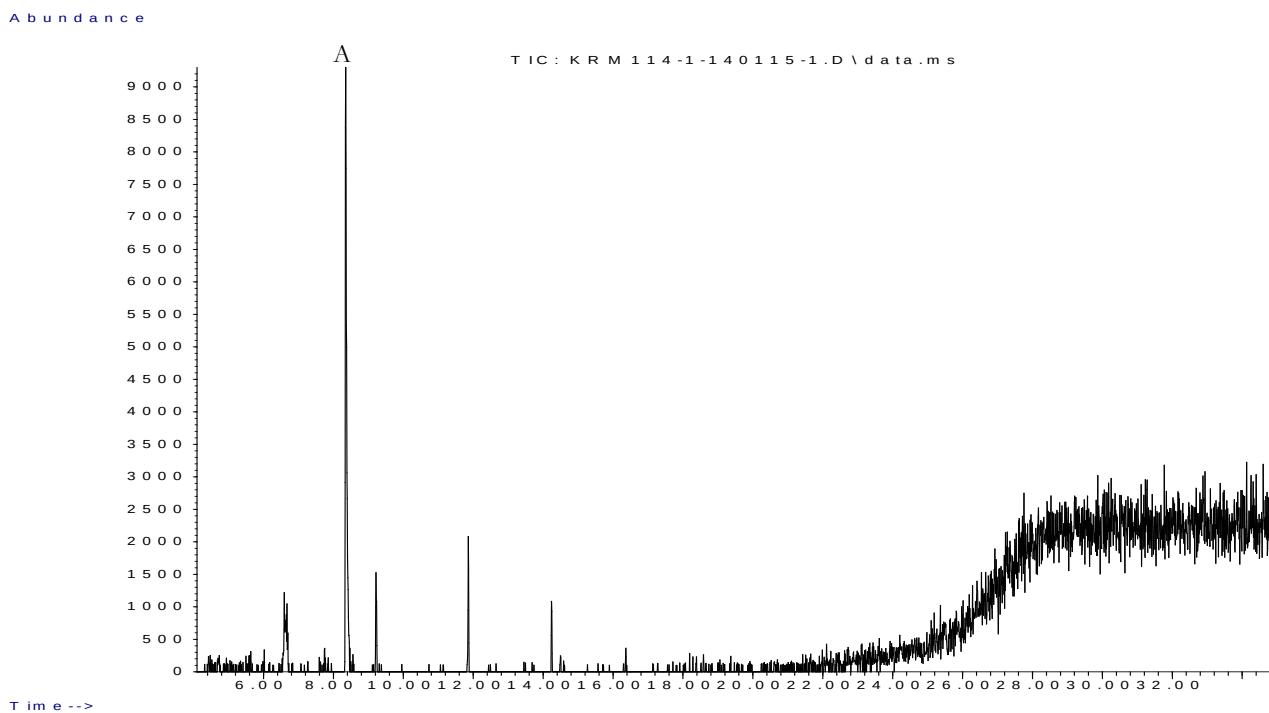
Major Peak:

Undecane

Secondary Peak:

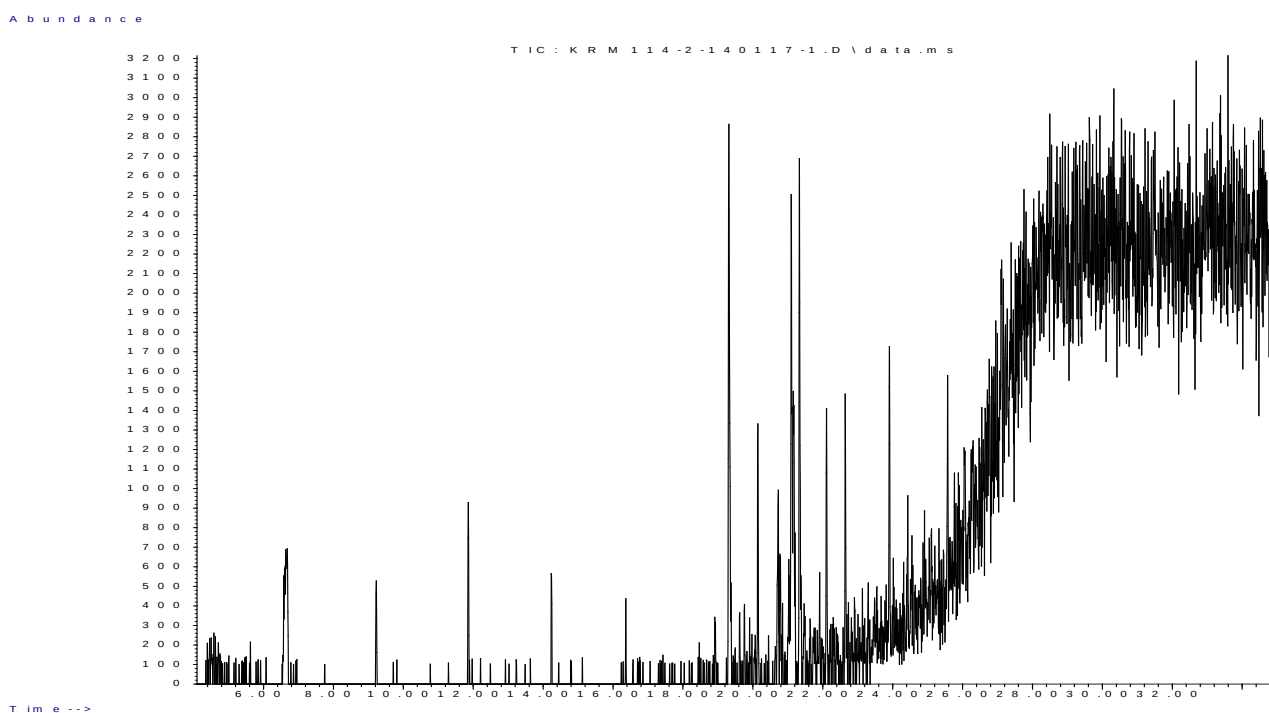
Siloxanes

Other Peaks of Note:



SAMPLE KRM114-001: hloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. All others siloxanes.



SAMPLE KRM114-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All contaminants.

KRM 115

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2666, reference Nb55 p173. Sample drilled from krater rim.

Sample Weight: 1.59097g $\pm$ 0.00003g

Chloroform Methanol Extracted Residue:	0.00173g $\pm$ 0.00004g	(92.51%)
Potassium Hydroxide Extracted Residue:	0.00014g $\pm$ 0.00003g	(7.49%)
Total Extracted Residue:	0.00187g $\pm$ 0.00005g	

Chloroform Methanol Extraction Yield:	1.09mg/g
Potassium Hydroxide Extraction Yield:	0.09mg/g
Total Yield:	1.18mg/g

Major Peak:

Undecane

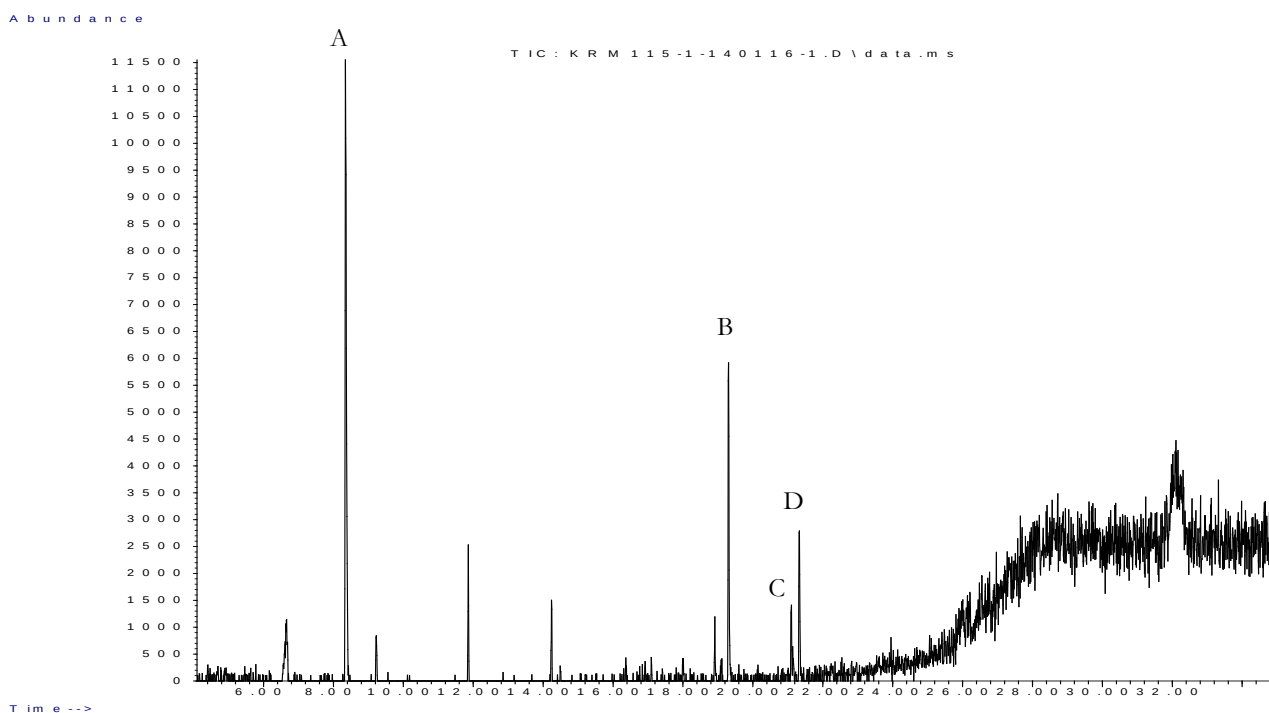
Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

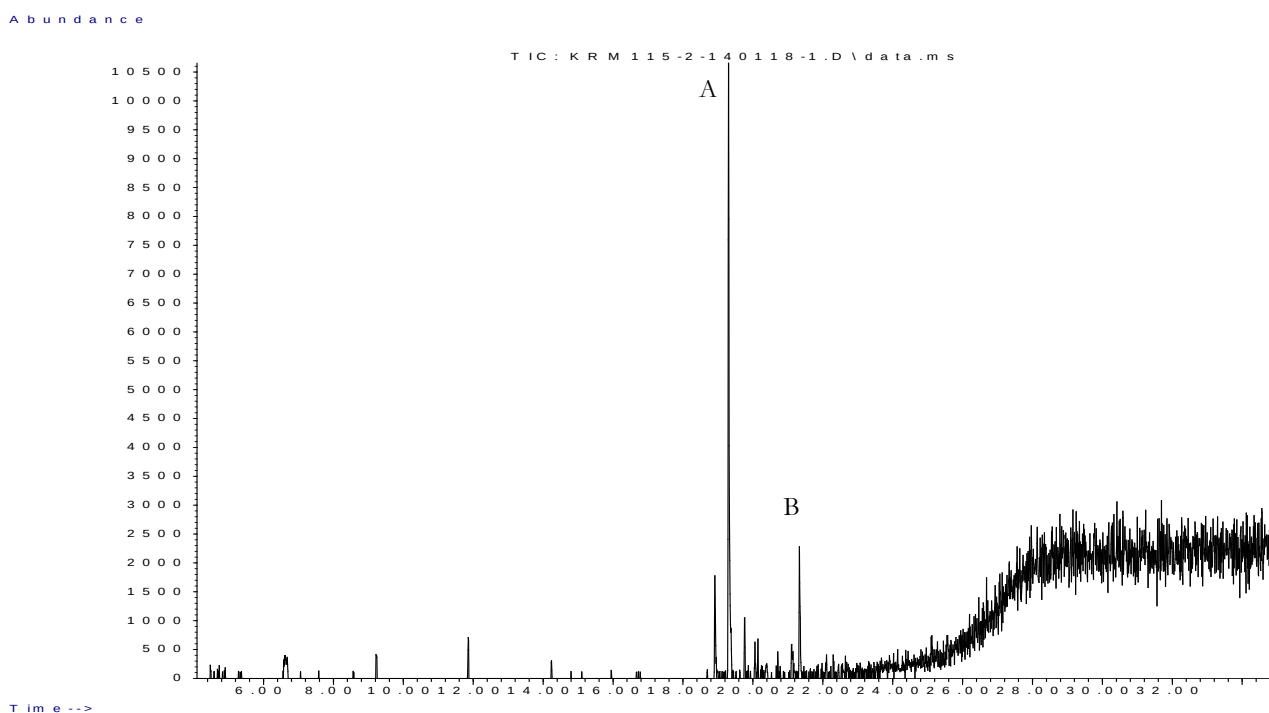
Other Peaks of Note:

Octadecenoic Acid, Methyl Ester



SAMPLE KRM115-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane/ B) Hexadecanoic Acid, Methy Ester. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester.



SAMPLE KRM115-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester

KRM 116

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2661, reference Nb55 p168. Sample drilled from sherd.

Sample Weight: 1.30998g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00079g $\pm$ 0.00002g	(25.08%)
Potassium Hydroxide Extracted Residue:	0.00236g $\pm$ 0.00001g	(74.94%)
Total Extracted Residue:	0.00315g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	0.60mg/g
Potassium Hydroxide Extraction Yield:	1.81mg/g
Total Yield:	2.40mg/g

Major Peak:

Undecane

Secondary Peak:

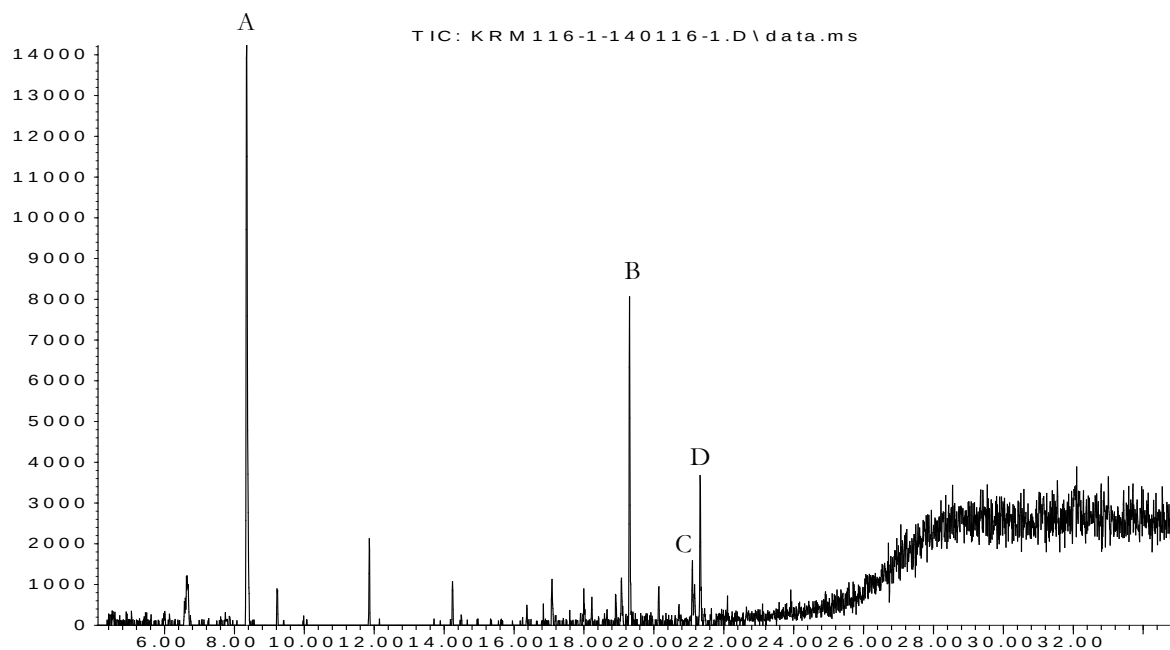
Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

Methyl Myristoleate (?) (Tetradecanoic Acid, Methyl Ester – uncommon, but main constituent of nutmeg**) logically, it should have eluted faster

Abundance

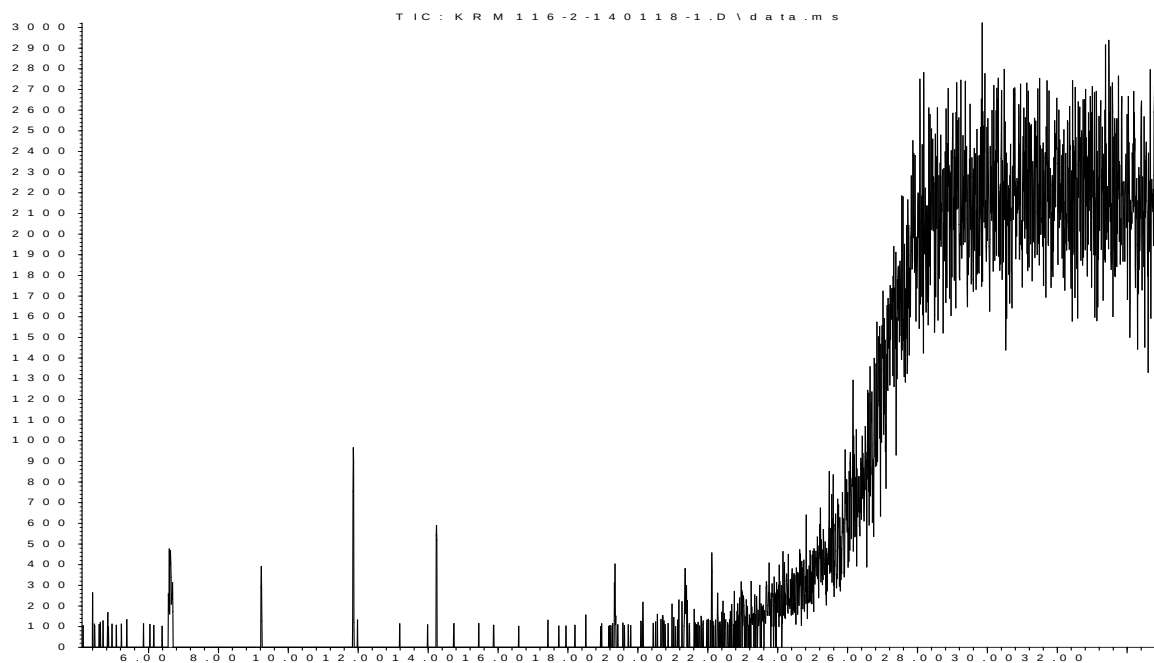


Time -->

SAMPLE KRM116-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Hexadecanoic Acid, Methyl Ester C) Tetradecanoic Acid (?) D) Octadecanoic Acid, Methyl Ester.

Abundance



Time -->

SAMPLE KRM116-002: Potassium Hydroxide Extraction and FAME Derivatistaion

All Siloxanes

KRM 117

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2665, reference Nb55 p172. Sample drilled from sherd.

Sample Weight: 1.36980g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00090g $\pm$ 0.00001g	(84.71%)
Potassium Hydroxide Extracted Residue:	0.00015g $\pm$ 0.00002g	(14.29%)
Total Extracted Residue:	0.00150g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	0.66mg/g
Potassium Hydroxide Extraction Yield:	0.11mg/g
Total Yield:	0.77mg/g

Major Peak:

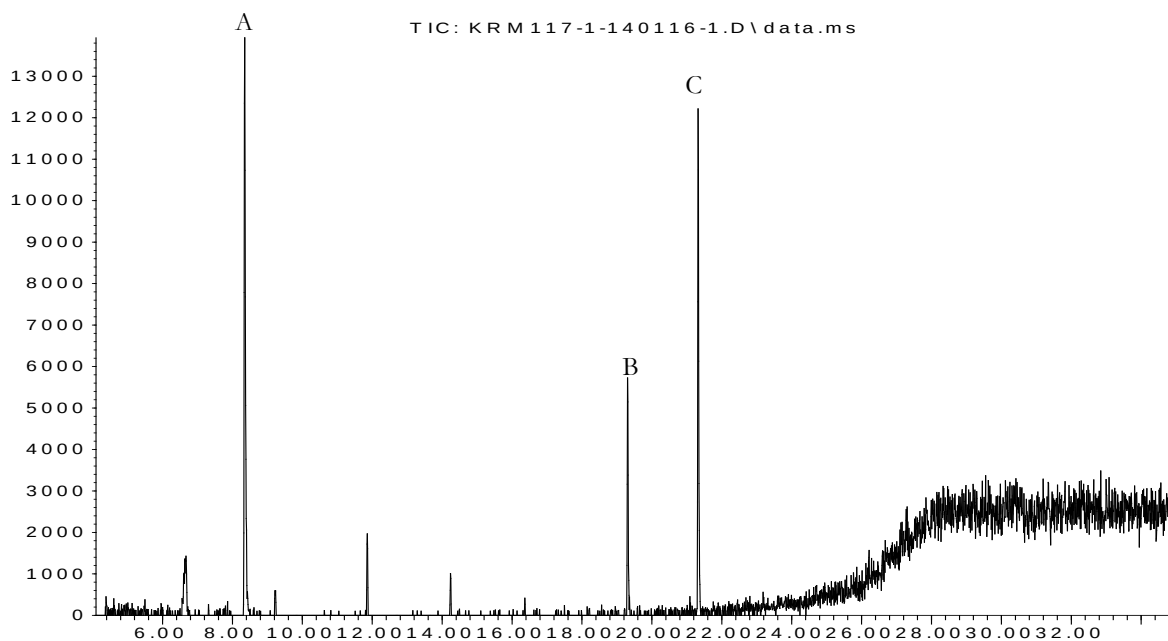
Undecane

Octadecanoic Acid, Methyl Ester

Secondary Peak:

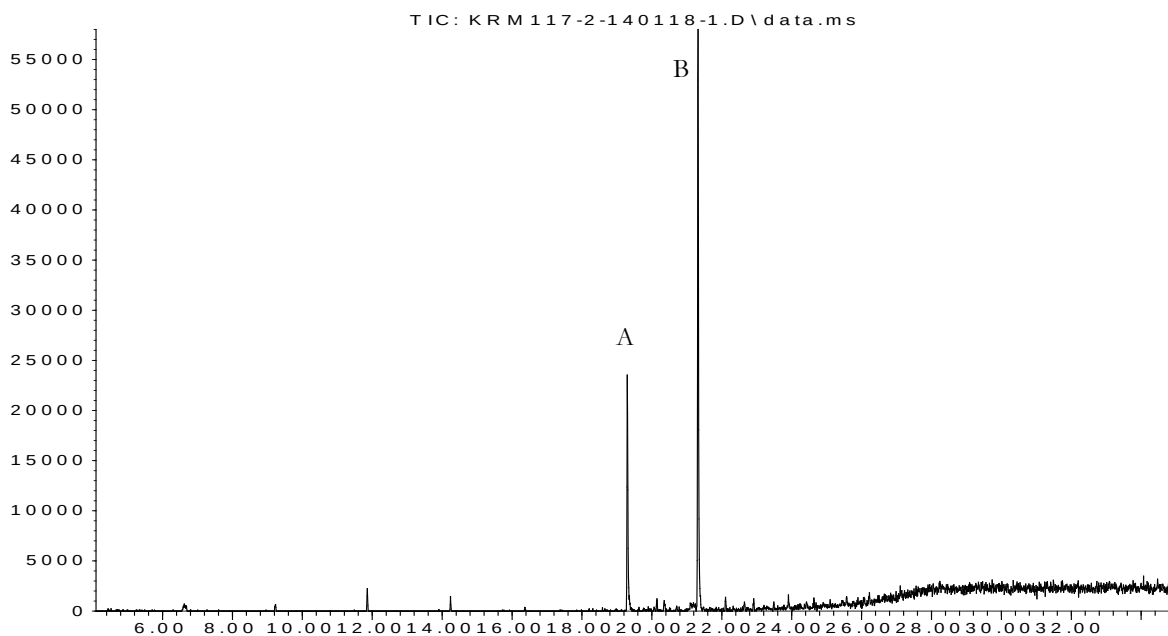
Hexadecanoic Acid, Methyl Ester

Abundance

**SAMPLE KRM117-001: Chloroform/Methanol Extraction and FAME Derivatistation**

A) Undecane. B) Hexadecanoic Acid, Methyl Ester, C) Octadecanoic Acid, Methyl Ester

Abundance

**SAMPLE KRM117-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester.

KRM 118

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-N, locus 11, pottery bucket 883, vessel P.883.2, reference Nb 59 p129. Sample drilled from a decorated sherd.

Sample Weight: 1.88509g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.00095g $\pm$ 0.00004g	(83.33%)
Potassium Hydroxide Extracted Residue:	0.00019g $\pm$ 0.00001g	(16.67%)
Total Extracted Residue:	0.00114g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	0.50mg/g
Potassium Hydroxide Extraction Yield:	0.10mg/g
Total Yield:	0.60mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

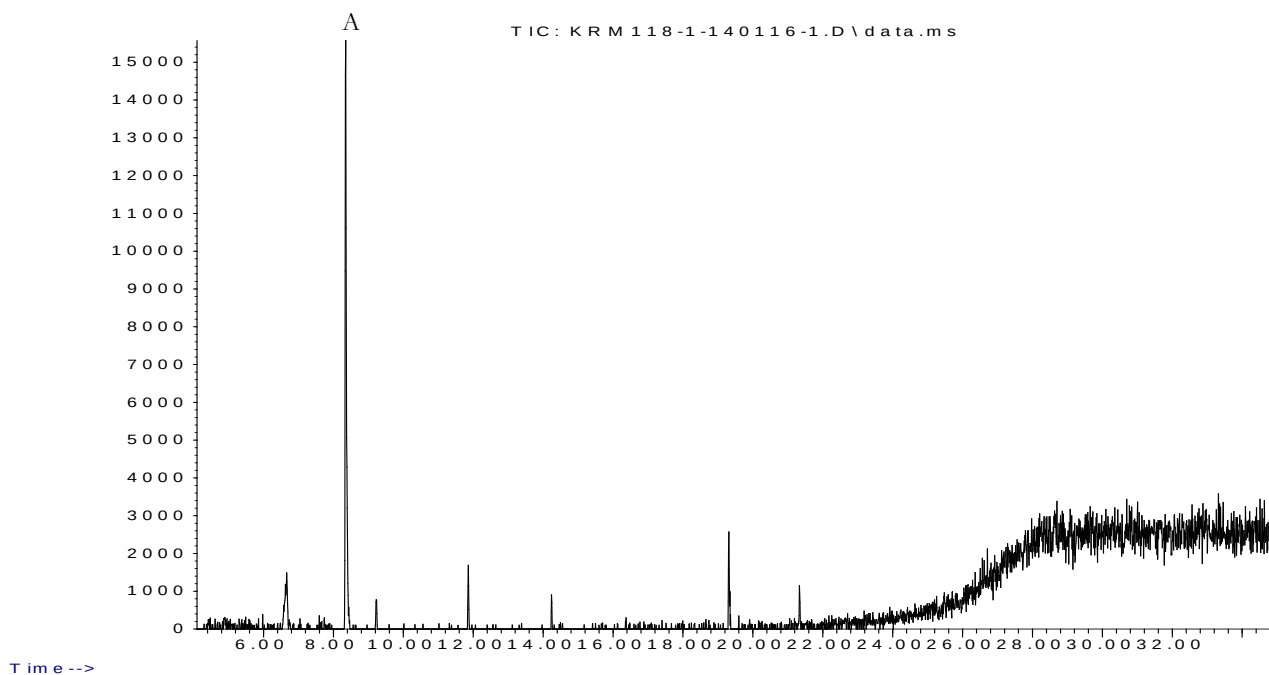
Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecenoic Acid, Methyl Ester

Eicosanoic Acid, Methyl Ester

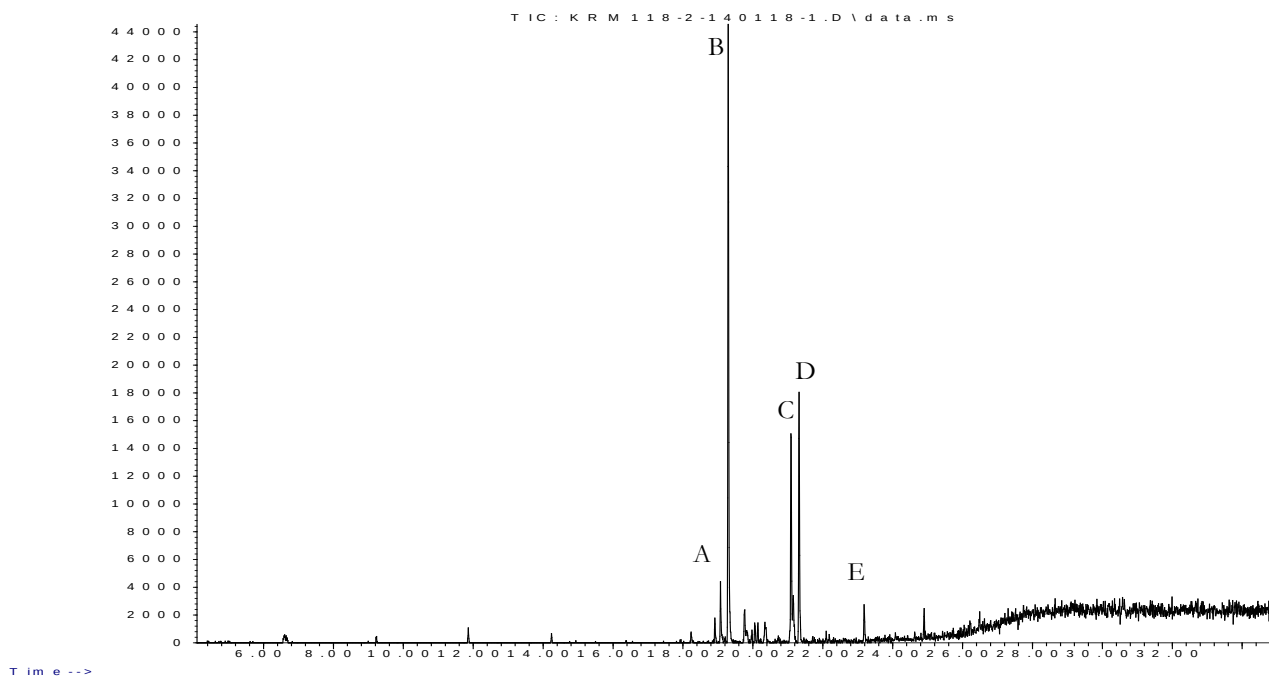
Abundance



SAMPLE KRM118-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane

Abundance



SAMPLE KRM118-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Hexadecanoic Acid, Methyl Ester. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester E) Eicosanoic Acid, Methyl Ester

KRM 119

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 55, pottery bucket 2667, reference Nb55 p174. Sample drilled from ledge handle.

Sample Weight: 0.67819g $\pm$ 0.00002g

Chloroform Methanol Extracted Residue:	0.00247g $\pm$ 0.00002g	(93.21%)
Potassium Hydroxide Extracted Residue:	0.00018g $\pm$ 0.00003g	(6.79%)
Total Extracted Residue:	0.00265g $\pm$ 0.00004g	

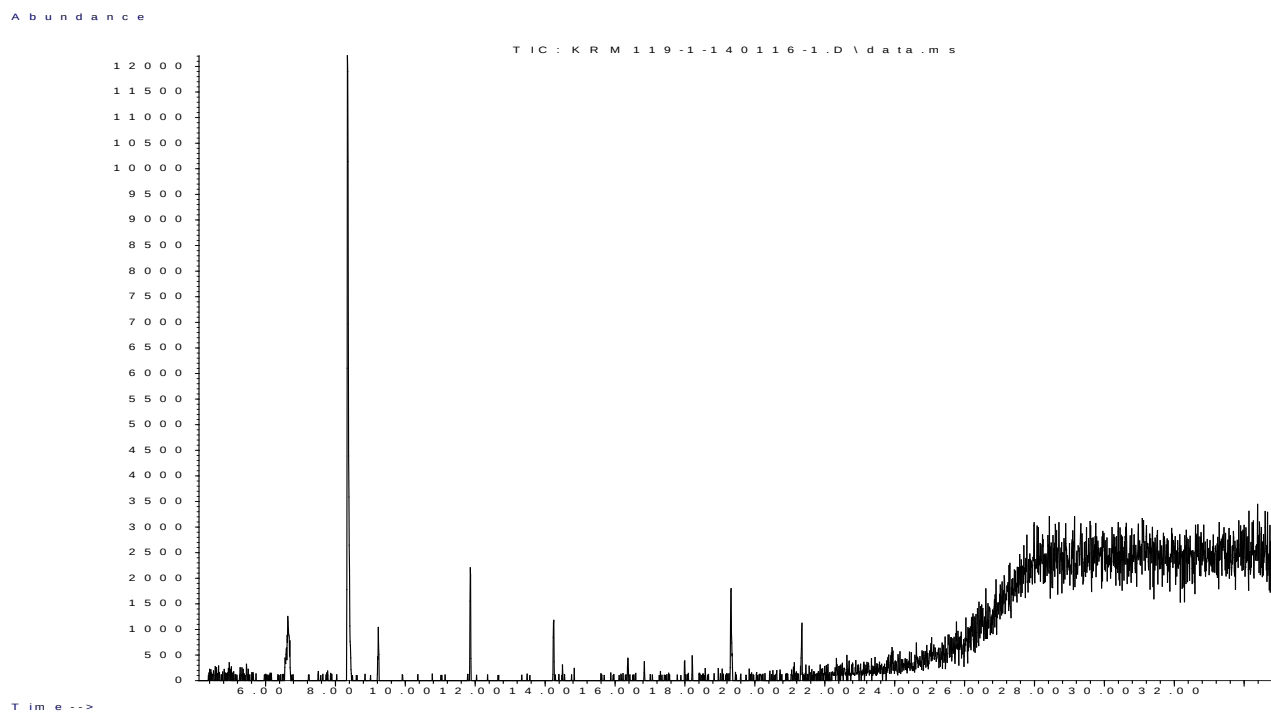
Chloroform Methanol Extraction Yield:	3.64mg/g
Potassium Hydroxide Extraction Yield:	0.27mg/g
Total Yield:	3.91mg/g

Major Peak:

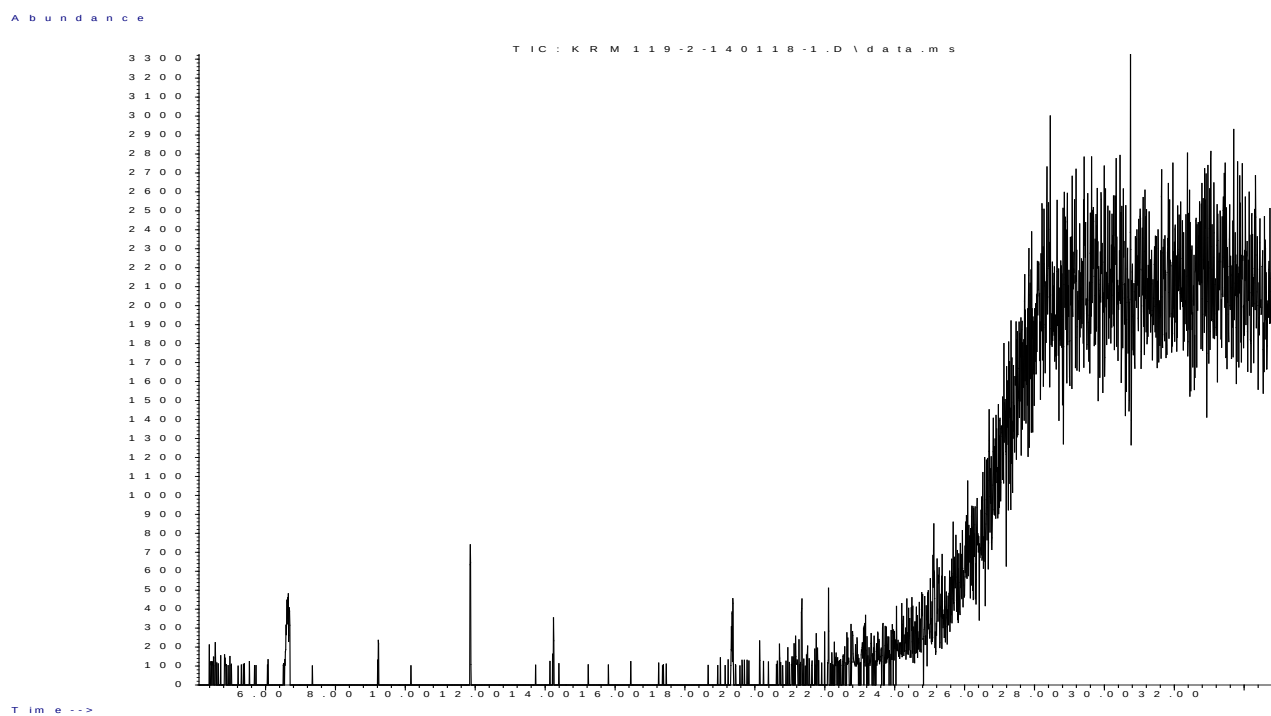
Undecane

Secondary Peak:

Siloxanes



SAMPLE KRM119-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane and siloxanes



SAMPLE KRM119-002: Potassium Hydroxide Extraction and FAME Derivatistaion
All siloxanes

KRM 120

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, pottery bucket 2666, reference Nb55 p173. Sample drilled from sherd of juglet.

Sample Weight: 1.19734g $\pm$ 0.00004g

Chloroform Methanol Extracted Residue:	0.00157g $\pm$ 0.00002g	(74.76%)
Potassium Hydroxide Extracted Residue:	0.00053g $\pm$ 0.00001g	(25.24%)
Total Extracted Residue:	0.00210g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	1.31mg/g
Potassium Hydroxide Extraction Yield:	0.44mg/g
Total Yield:	1.75mg/g

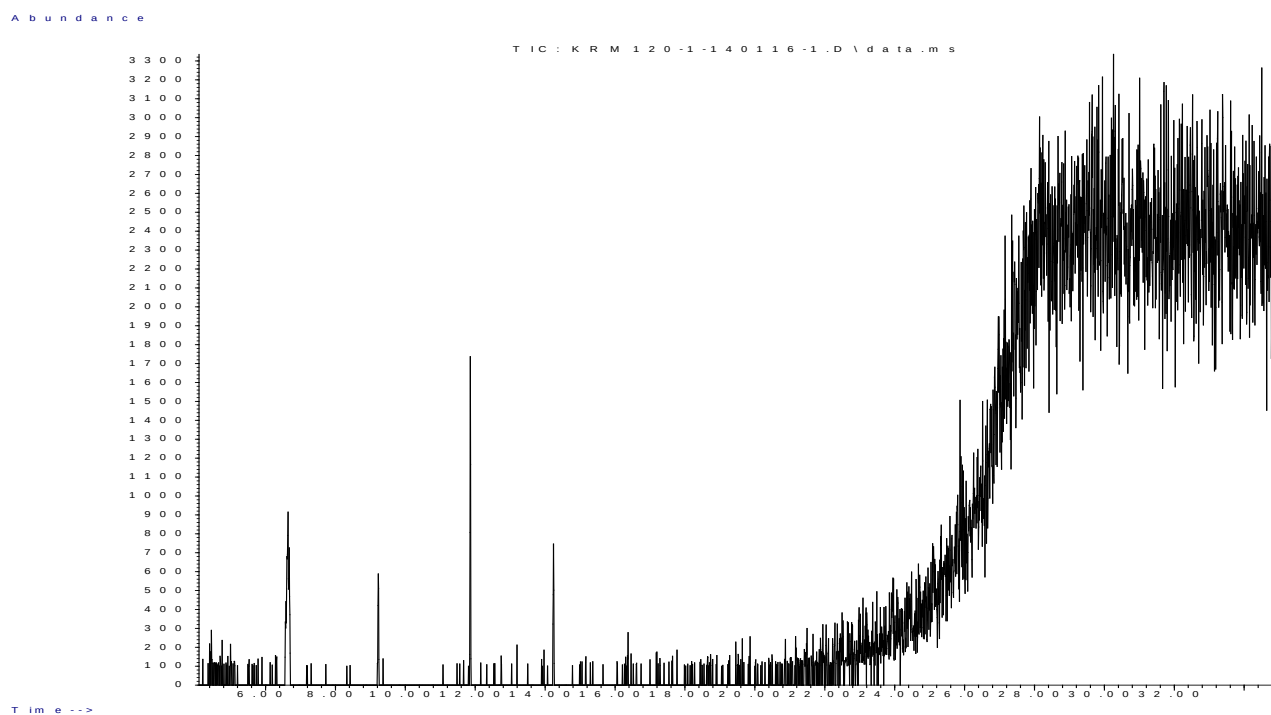
Major Peak:

Siloxanes

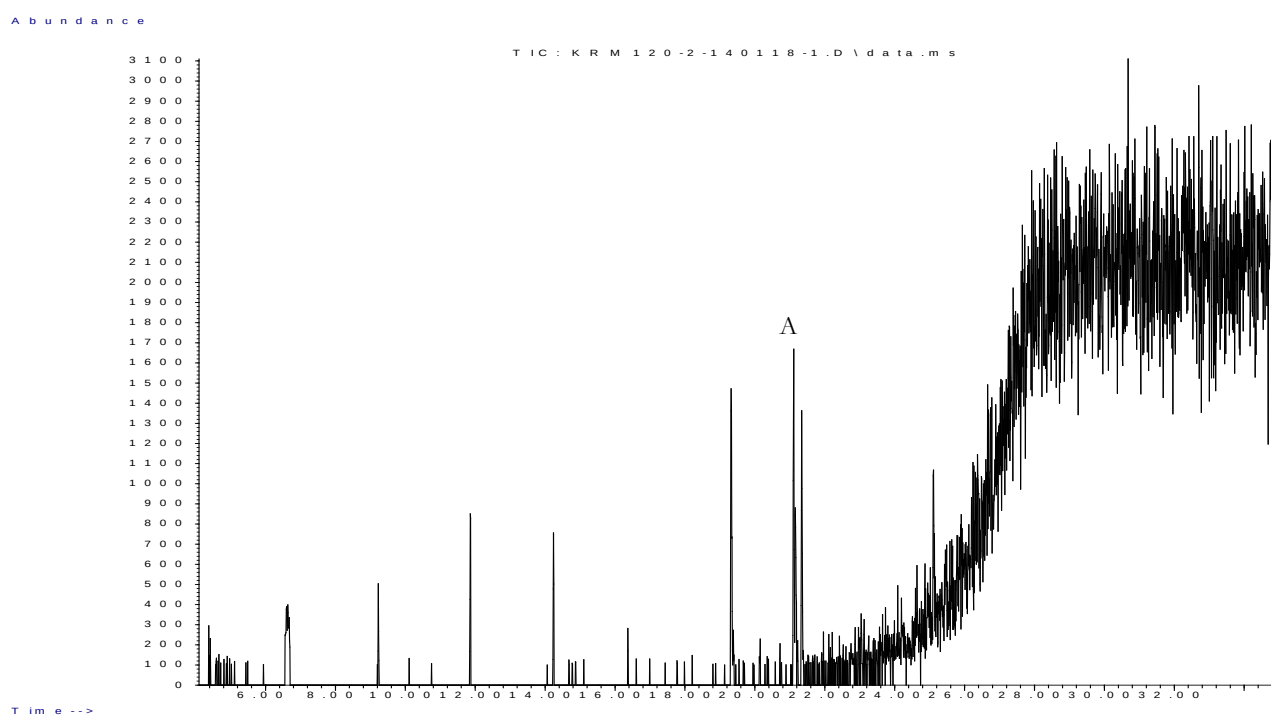
Secondary Peak:

Hexadecenoic Acid, Methyl Ester (?)

Other Peaks of Note:



SAMPLE KRM120-001: Chloroform/Methanol Extraction and FAME Derivatistation
siloxanes



SAMPLE KRM120-002: Potassium Hydroxide Extraction and FAME Derivatistaion
A) Hexadecenoic Acid, Methyl Ester (?)

KRM 121

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2665, reference Nb55 p172. Sample drilled from the base sherd of a juglet.

Sample Weight: 1.04780g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00168g $\pm$ 0.00002g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00168g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 1.60mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 1.60mg/g

Major Peak:

Undecane

Hexadecanoic acid, Methyl Ester

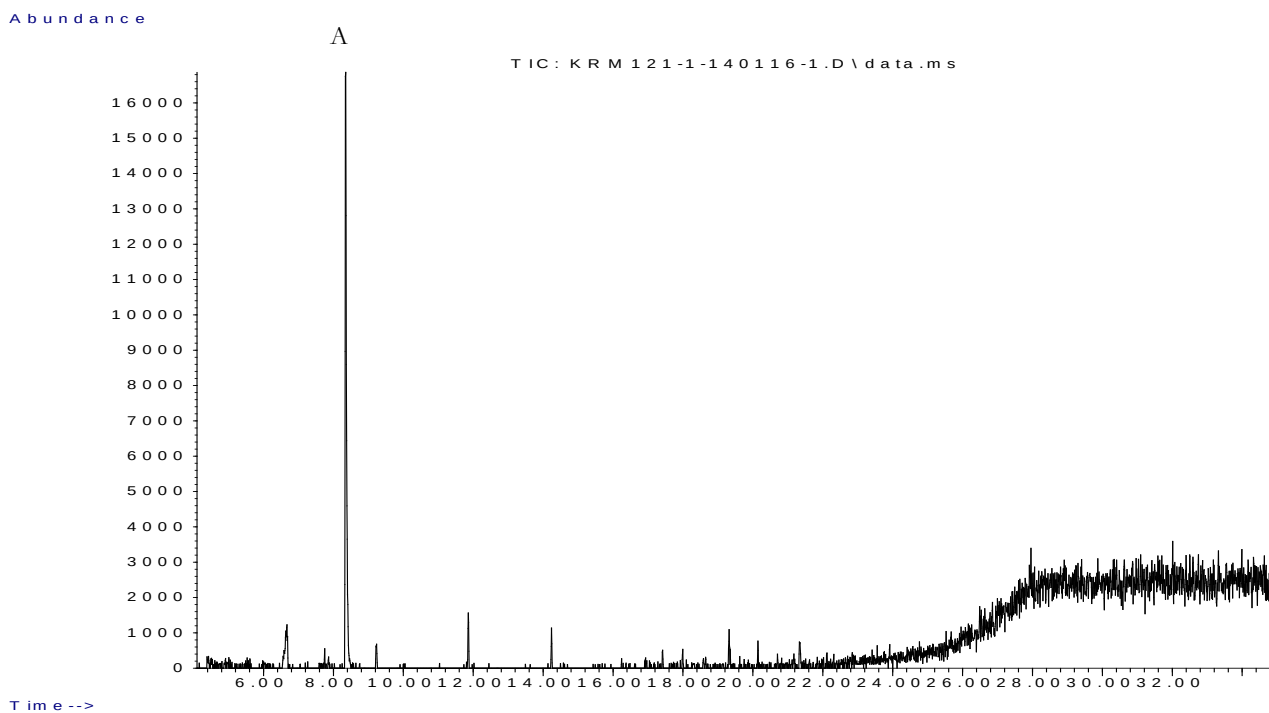
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

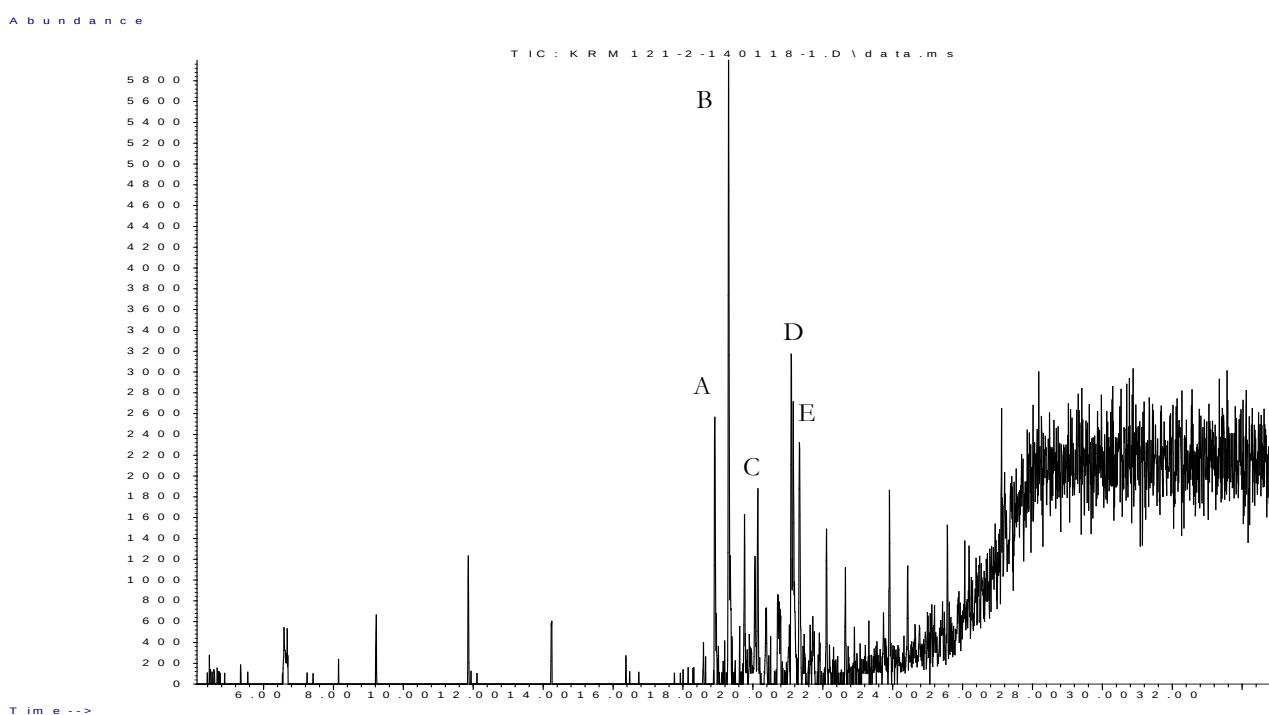
Octadecanoic Acid Methyl Ester

Heptanoic Acid, Methyl Ester



SAMPLE KRM121-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane



SAMPLE KRM121-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) an alkane (?) B) Hexadecanoic Acid, Methyl Ester C) Heptadecanoic Acid, Methyl Ester D) Octadecenoic Acid, Methyl Ester E) Octadecanoic Acid Methyl Ester

KRM 122

Lefkandi, Greece. 2007. Late Helladic III/Iron Age. Area T-S, loci 1 and 2, pottery bucket 2533, vessel P.2533.1, reference Nb34 p175. Sample drilled from the base of a crucible/votive/lamp/cup.

Sample Weight: 1.91830g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00069g $\pm$ 0.00001g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00069g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.36mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.36mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

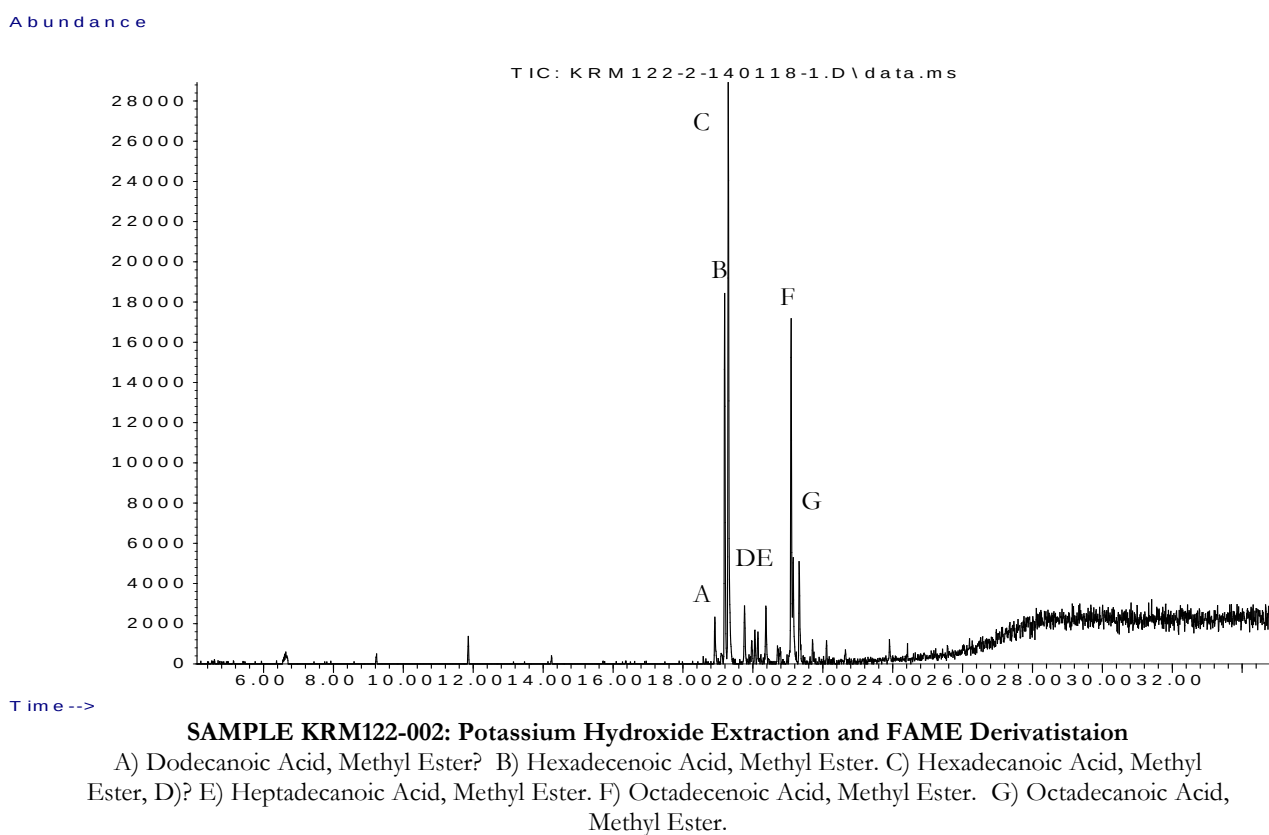
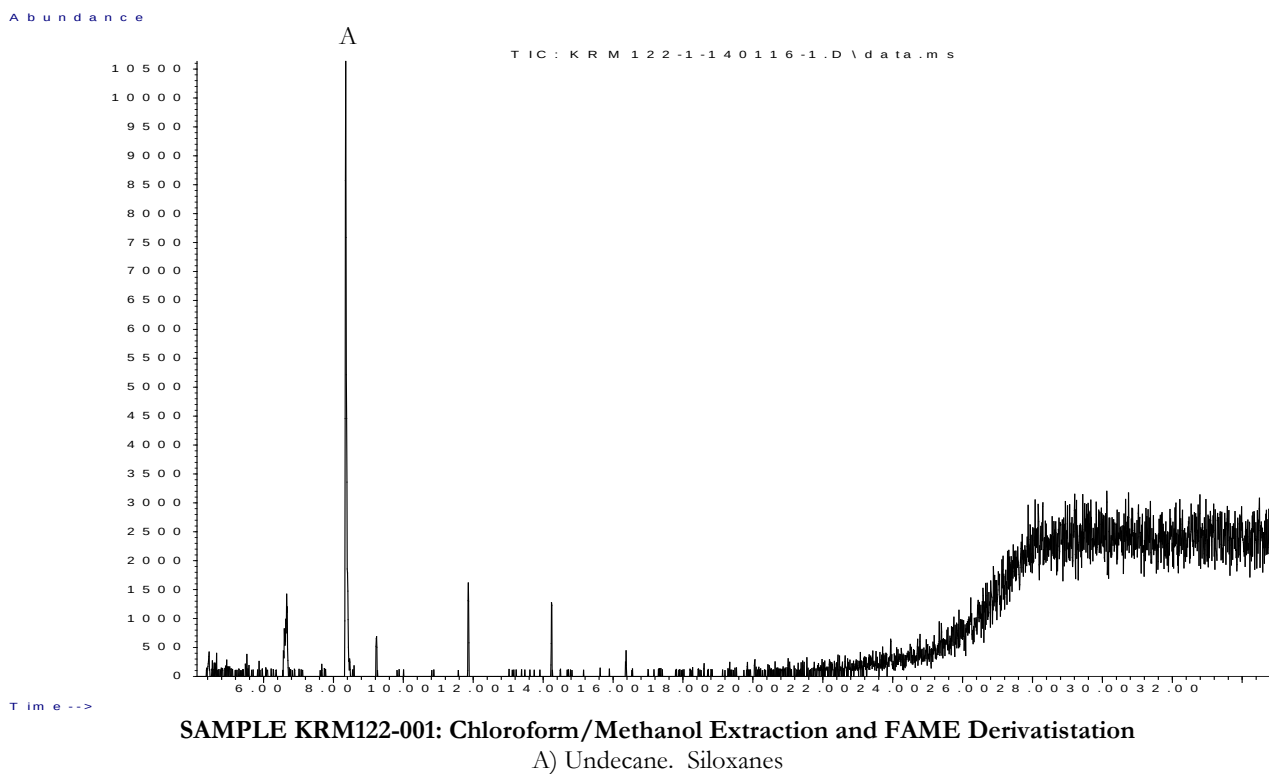
Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{12:0}, C_{16:0}, C_{17:0}, C_{18:0}

Alkenoic Acid Methyl Esters: C_{16:1}, C_{18:1}



KRM 123

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area Q-NE, locus 58, pottery bucket 4600, vessel P.4600.9, reference Nb51 p47. Sample drilled from near base of small cup/bowl.

Sample Weight: 1.77592g $\pm$ 0.00003g

Chloroform Methanol Extracted Residue:	0.00246g $\pm$ 0.00002g	(92.48%)
Potassium Hydroxide Extracted Residue:	0.00020g $\pm$ 0.00001g	(7.52%)
Total Extracted Residue:	0.00266g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	1.39mg/g
Potassium Hydroxide Extraction Yield:	0.11mg/g
Total Yield:	1.50mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

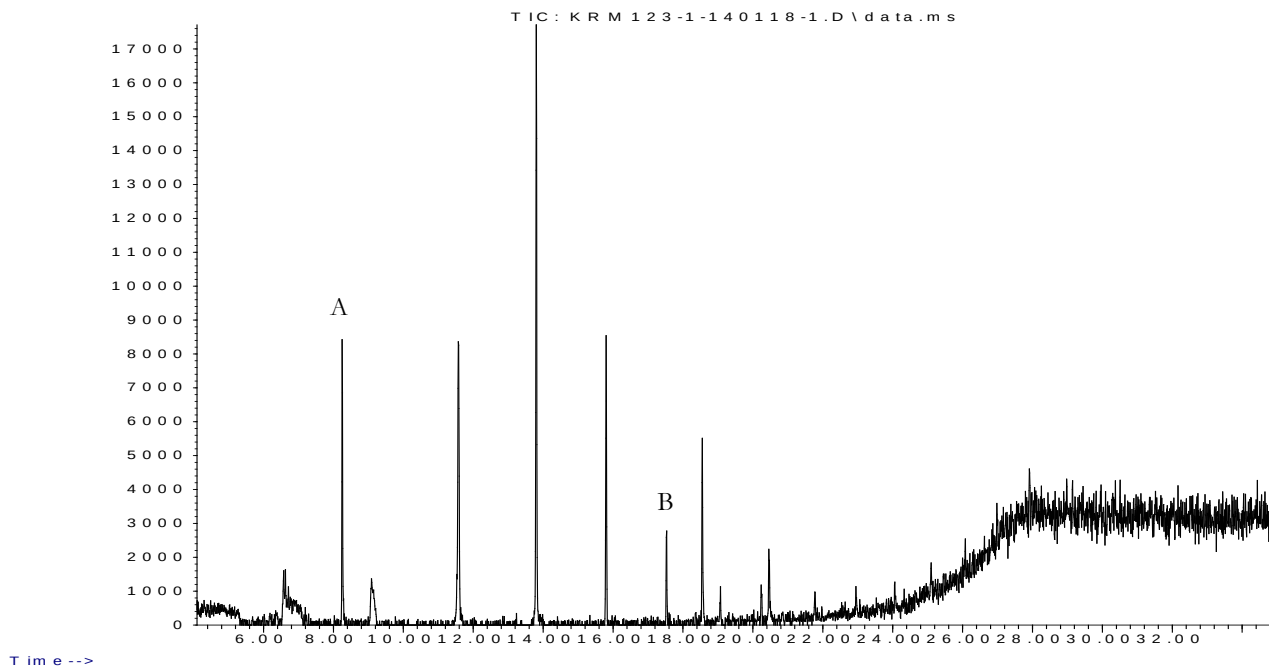
Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{14:0}, C_{15:0}, C_{16:0}, C_{17:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{23:0}, C_{24:0}, C_{26:0}

Alkenoic Acid, Methyl Esters: C_{16:1}, C_{18:1}

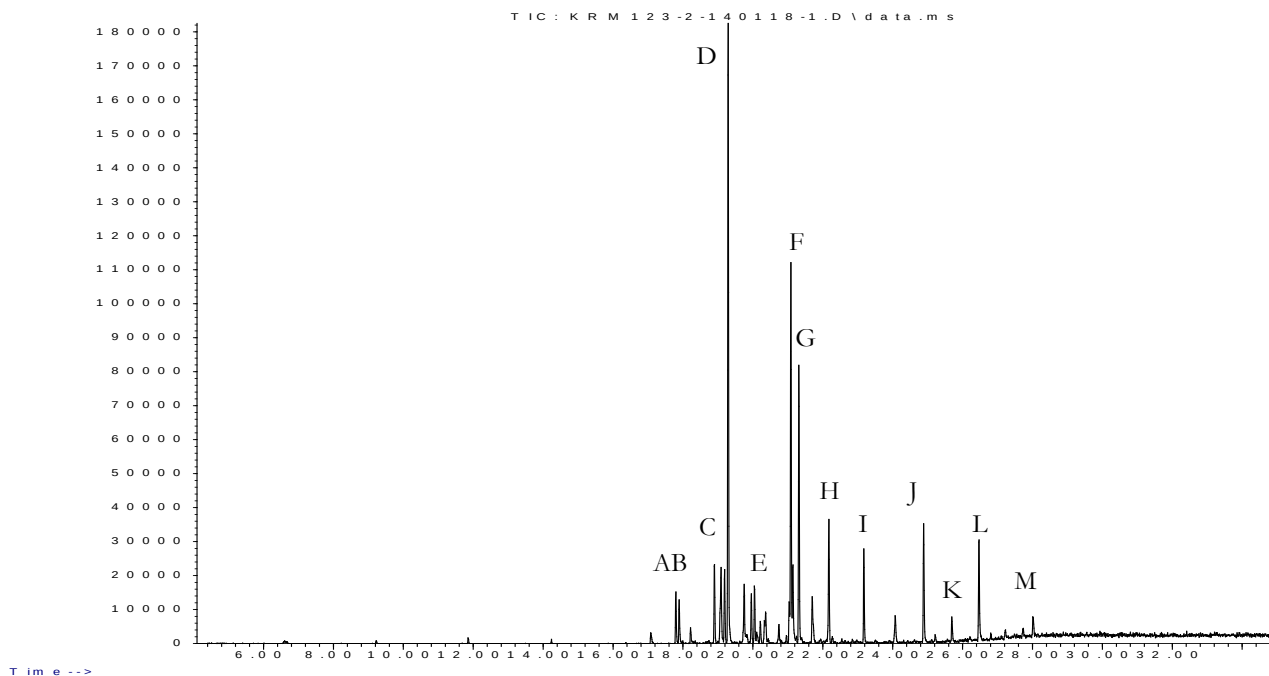
Abundance



SAMPLE KRM123-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Hexadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM123-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester. B) Pentadecanoic Acid, Methyl Ester C) Hexadecenoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester E) Heptadecanoic Acid, Methyl Ester F) Octadecenoic Acid, Methyl Ester. G) Octadecanoic Acid, Methyl Ester H)? I) Eicosanoic Acid, Methyl Ester J) Docosanoic Acid, Methyl Ester K) Tricosanoic Acid, Methyl Ester L) Tetracosanoic Acid, Methyl Ester M) Hexacosanoic Acid, Methyl Ester.

KRM 124

Lefkandi, Greece. 2008. Late Helladic III/Iron Age. Area T-S, locus 56, pottery bucket 2673, reference Nb55 p180. Sample drilled from base sherd.

Sample Weight: 0.41267g $\pm$ 0.00003g

Chloroform Methanol Extracted Residue:	0.00152g $\pm$ 0.00002g	(93.25%)
Potassium Hydroxide Extracted Residue:	0.00011g $\pm$ 0.00002g	(6.75%)
Total Extracted Residue:	0.00163g $\pm$ 0.00002g	

Chloroform Methanol Extraction Yield:	3.68mg/g
Potassium Hydroxide Extraction Yield:	0.27mg/g
Total Yield:	3.95mg/g

Major Peak:

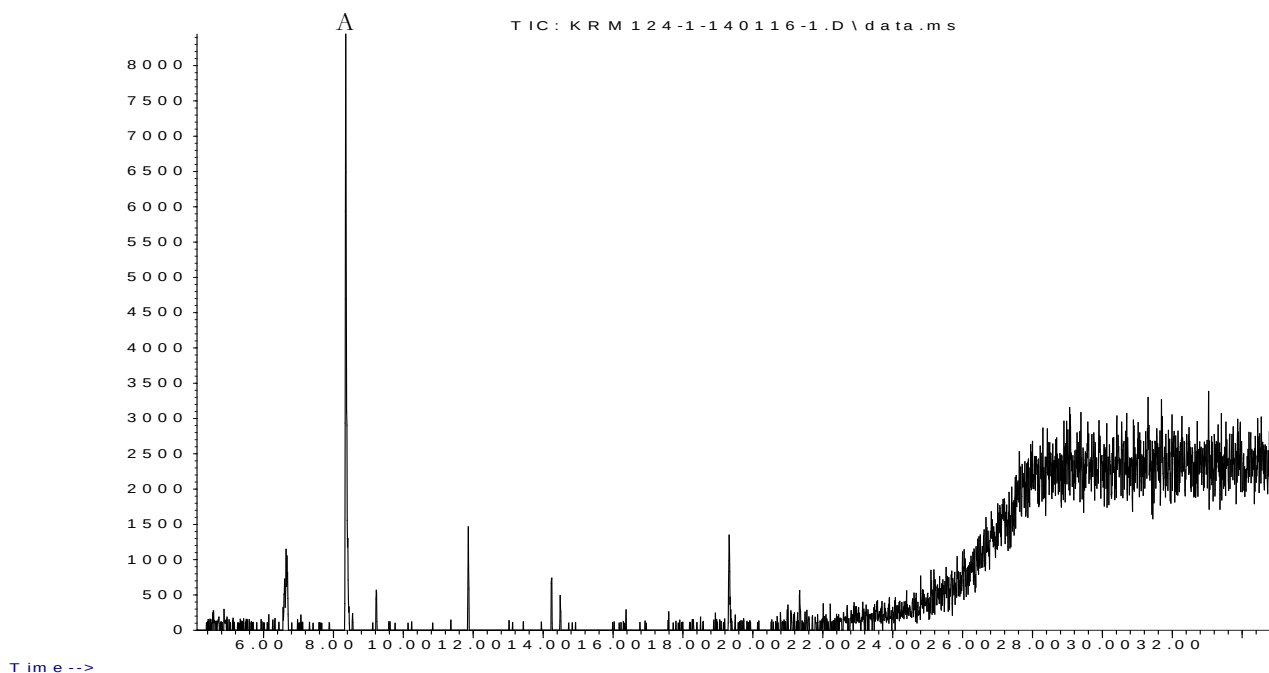
Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid Methyl Ester

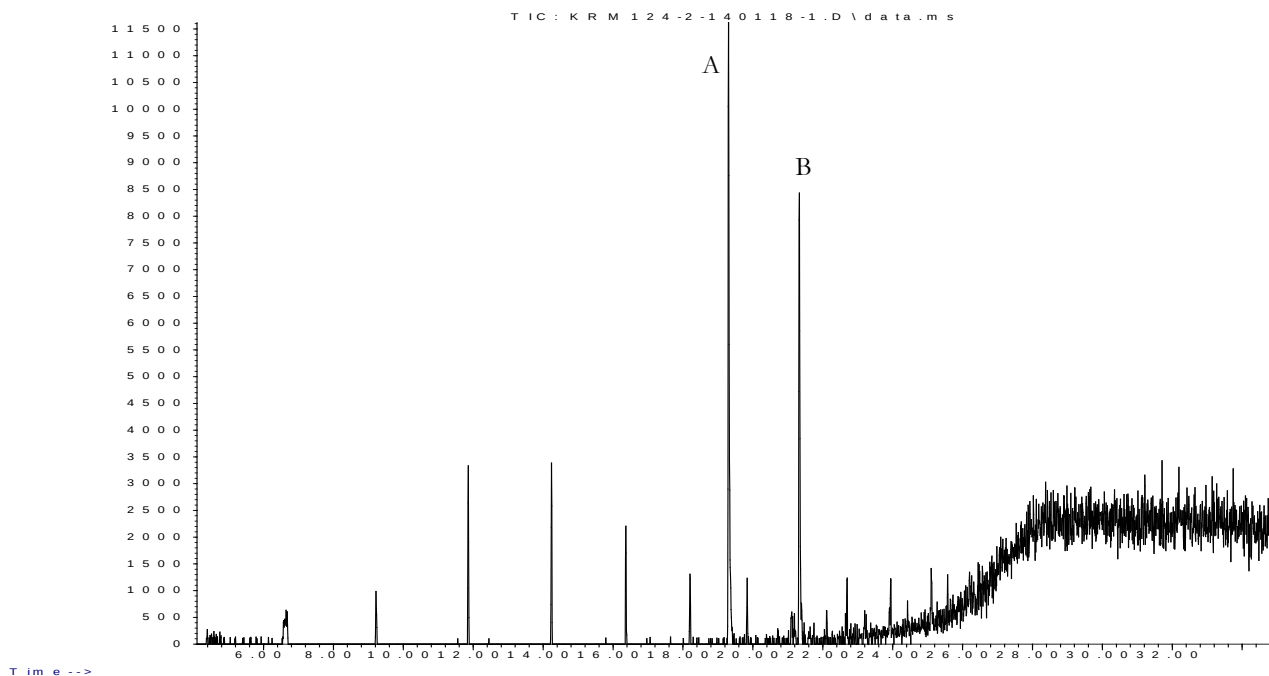
Other Peaks of Note:

Abundance



SAMPLE KRM124-001: Chloroform/Methanol Extraction and FAME Derivatistation
 Undecane and siloxanes

Abundance



SAMPLE KRM124-002: Potassium Hydroxide Extraction and FAME Derivatistaion
 A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester. All other siloxanes

KRM 125

Buffalo Trace Bourbon. Modern.

KRM 125-001

Sample Weight: $0.16187\text{g} \pm 0.00001\text{g}$

KRM 125-002 – Underivatised, Dissolved Hexane

Sample Weight: $0.15994\text{g} \pm 0.00001\text{g}$

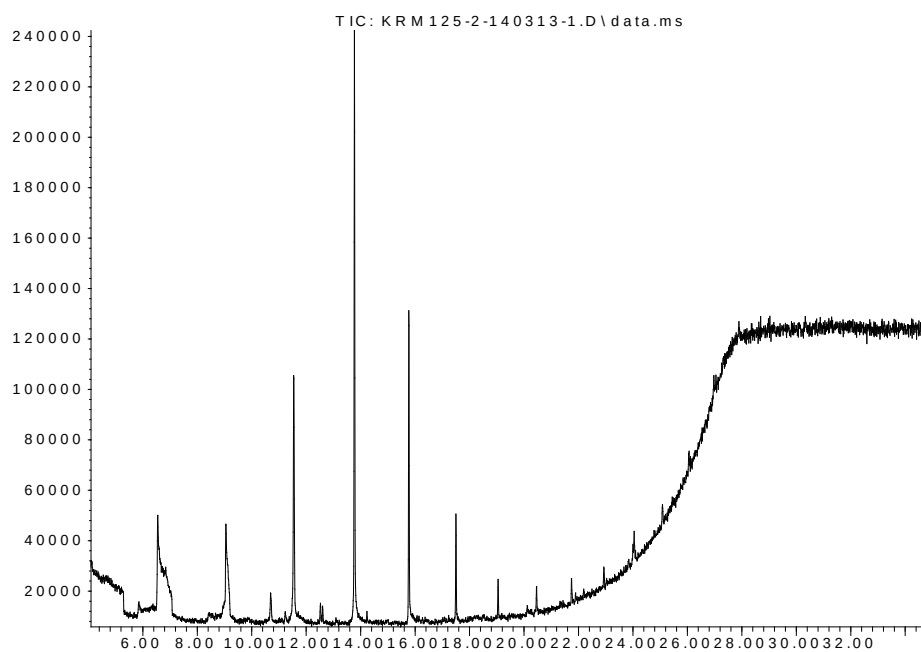
KRM 125-003 – Potassium Hydroxide/Methanol Fame Derivatisation

Sample Weight: $0.16710\text{g} \pm 0.00001\text{g}$

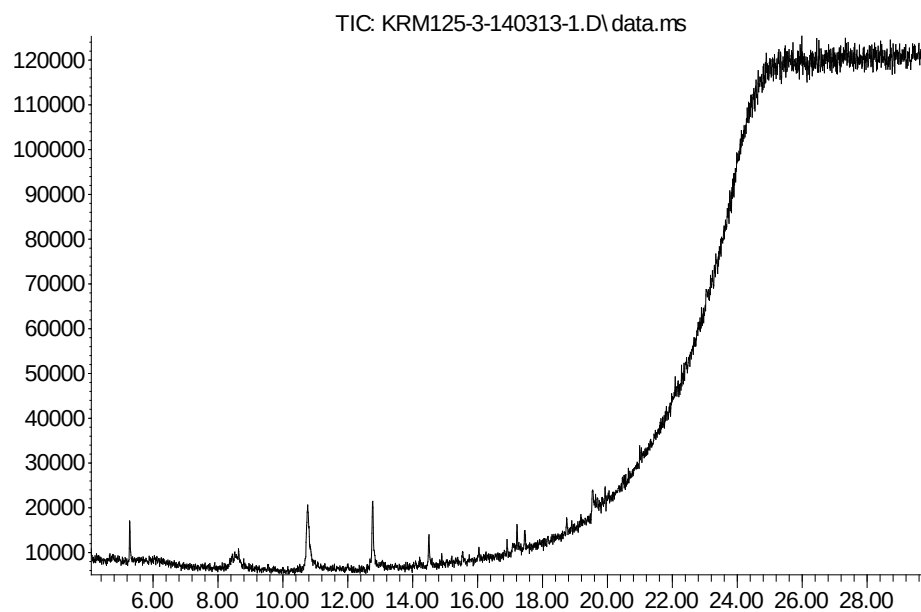
No lipid fractions -- L Poisson and P Schieberle, *J. Agric. Food. Chem.*, 2008, **56**, 5813-5819.
DOI: 10.1021/jf800382m ... distillates

SAMPLE KRM125-001: oform/Methanol Extraction and FAME Derivatistation

Abundance

**SAMPLE KRM125-002: Proportion soluble in hexane**
All siloxanes.

Abundance

**SAMPLE KRM126-003: Potassium Hydroxide Extraction and FAME Derivatisation**
Siloxanes

KRM 126

White Wine. Isla Negra Reserva Sauvignon Blanc, Chile, 2012.

KRM126-001

Sample Weight: $0.15463\text{g} \pm 0.00001\text{g}$

KRM126-002 – dissolved in hexane

Sample Weight: $0.16777\text{g} \pm 0.00001\text{g}$

KRM126-003

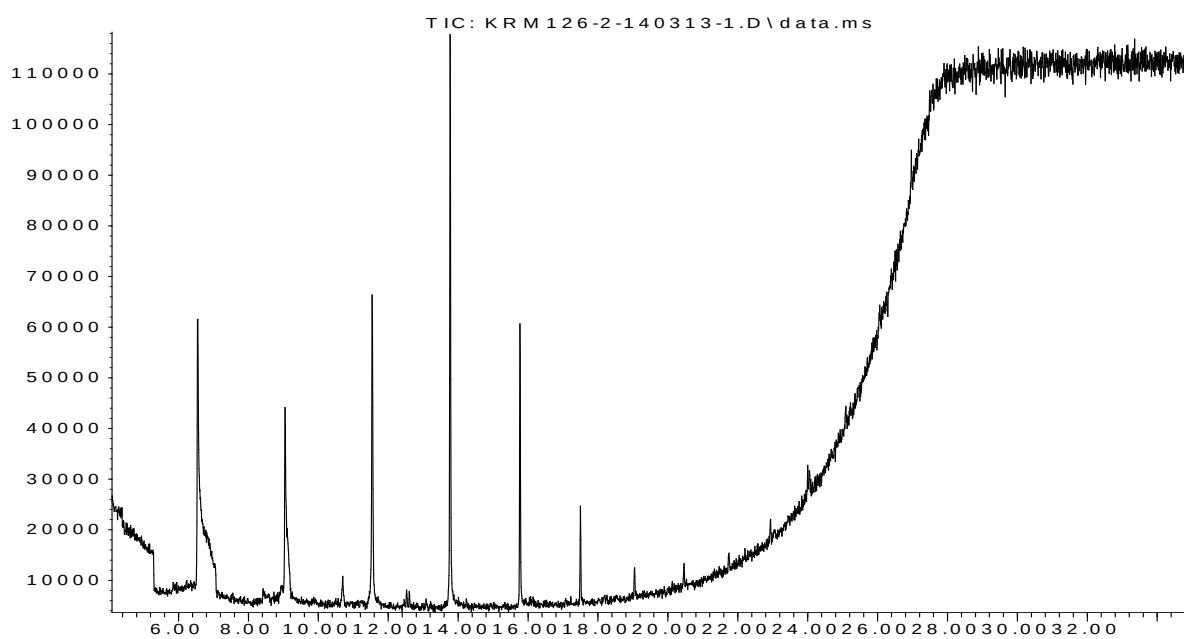
Sample Weight: $0.17787\text{g} \pm 0.00001\text{g}$

Major Peak:

Secondary Peak:

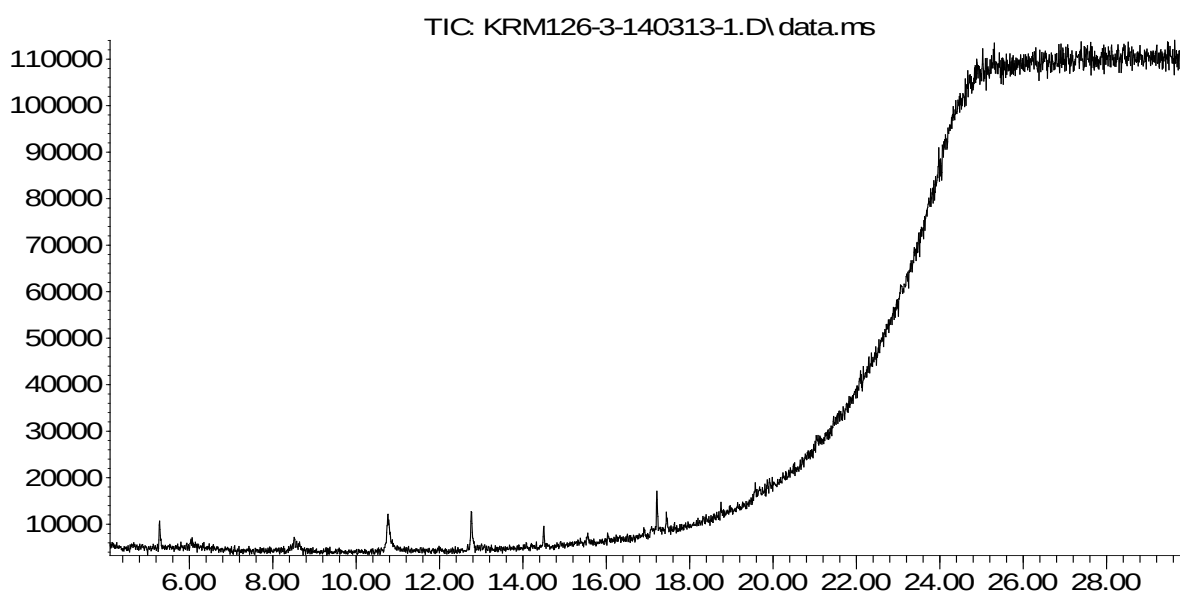
Other Peaks of Note:

Abundance



SAMPLE KRM126-002: Hexane soluble fraction
siloxanes

Abundance



SAMPLE KRM 126-003: FAME Derivatisation

KRM 127

Elderflower liqueur. Chase Distillery.

KRM127-001

Sample Weight: $0.17346\text{g} \pm 0.00001\text{g}$

KRM127-002 – Dissolved in Hexane

Sample Weight: $0.15703\text{g} \pm 0.00001\text{g}$

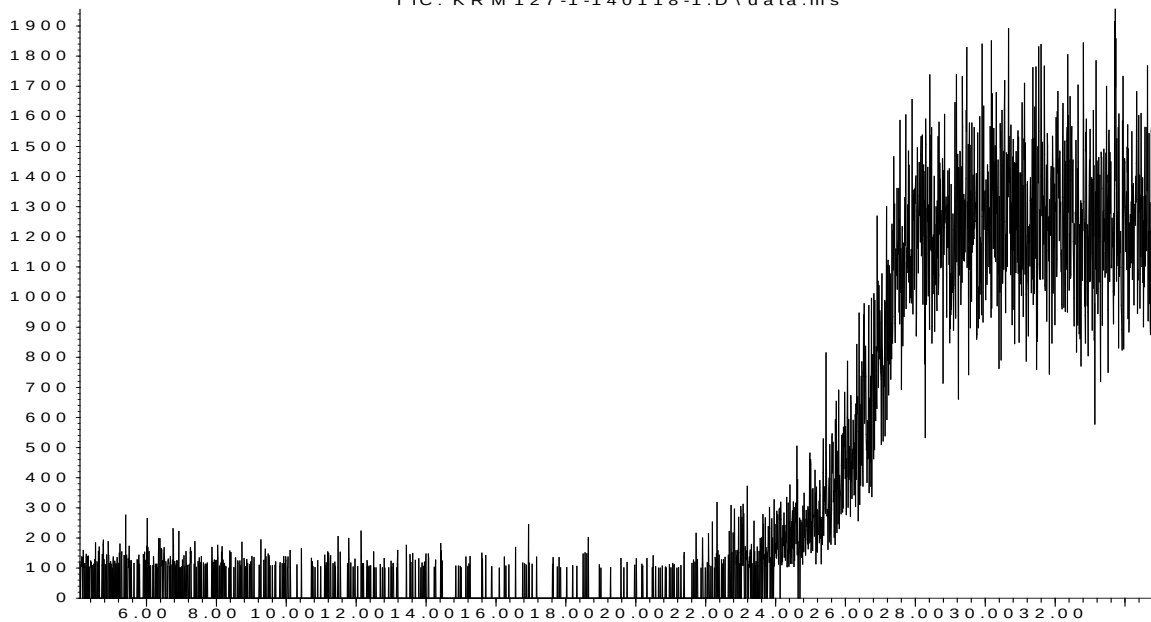
KRM127-003 - Fame Derivatisation

Sample Weight: $0.16500\text{g} \pm 0.00001\text{g}$

No peaks

Abundance

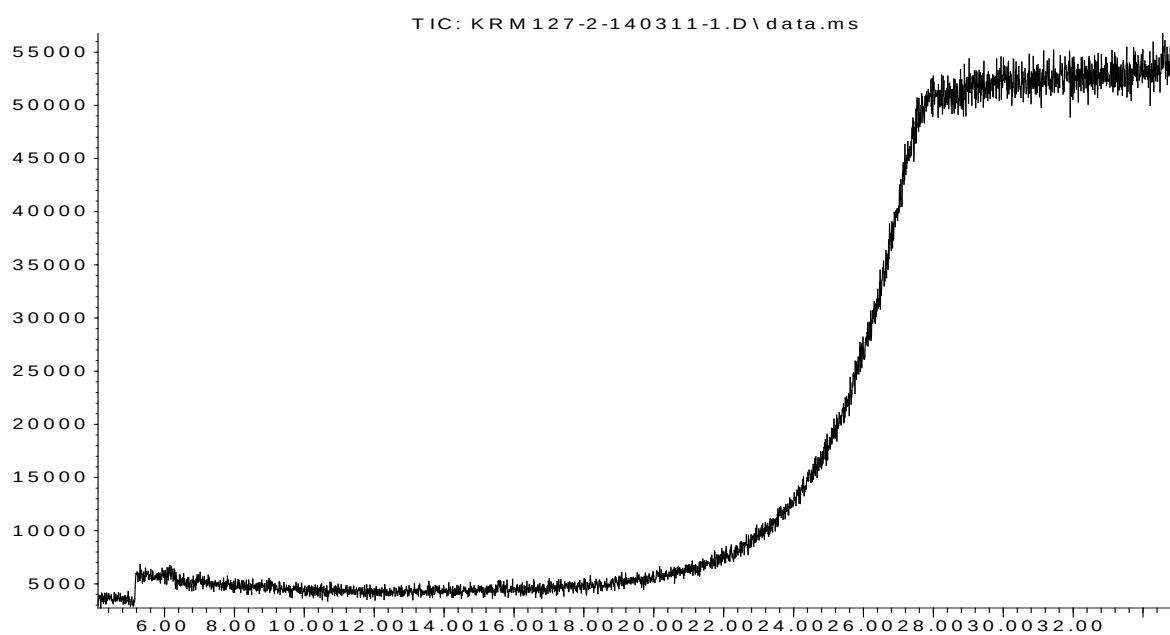
TIC: KRM127-1-140118-1.D\data.ms



Time-->

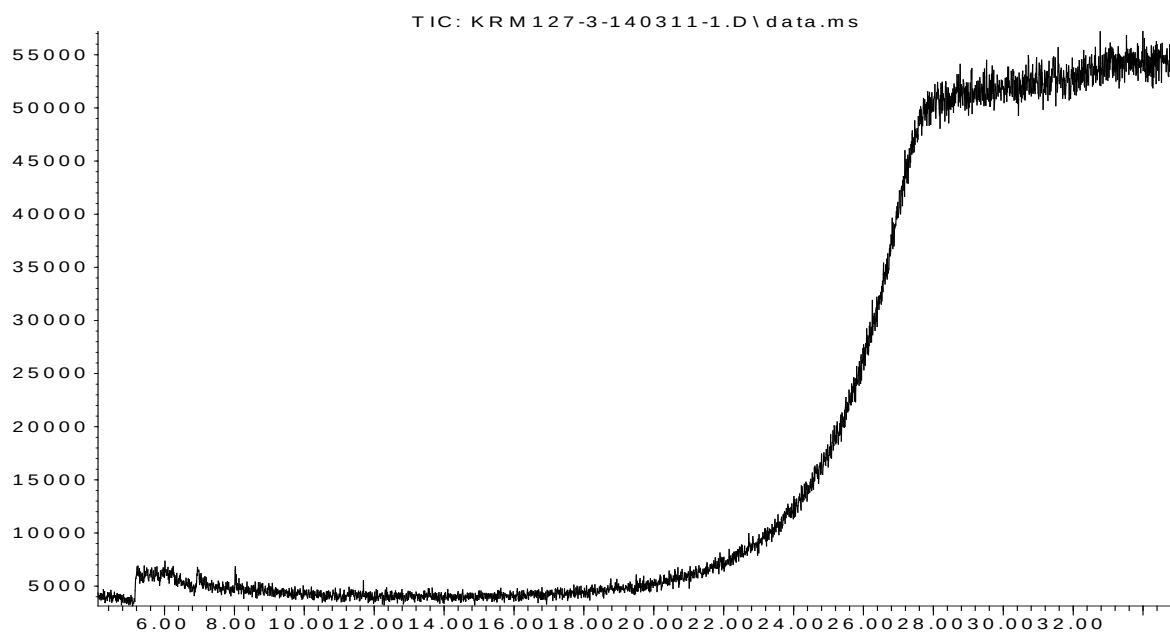
SAMPLE KRM127-001: Pure

Abundance



SAMPLE KRM127-002: Dissolved in Hexane

Abundance



SAMPLE KRM127-003: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 128

Whisky. Talisker.

KRM128-001

Sample Weight: $0.17752\text{g} \pm 0.00003\text{g}$

KRM128-002 – Dissolved in Hexane

Sample Weight: $0.15147\text{g} \pm 0.00002\text{g}$

No peaks

KRM128-003 – FAME Derivatisation

Sample Weight: $0.16292\text{g} \pm 0.00002\text{g}$

Major Peak:

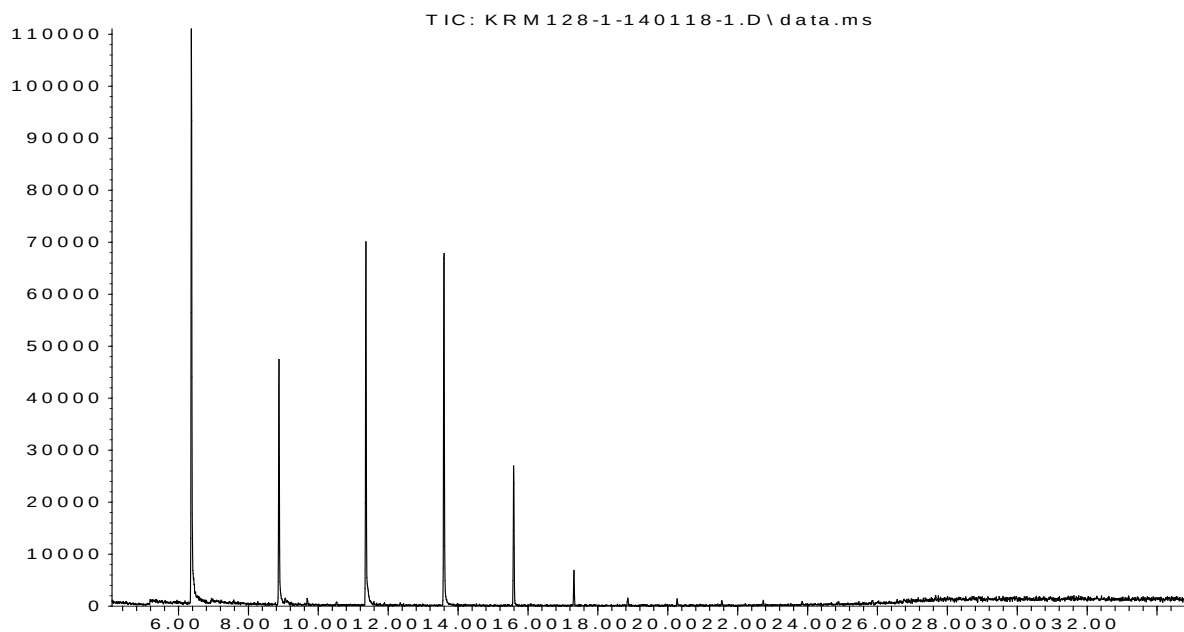
Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{10:0}, C_{11:0}, C_{16:0}, C_{18:0}

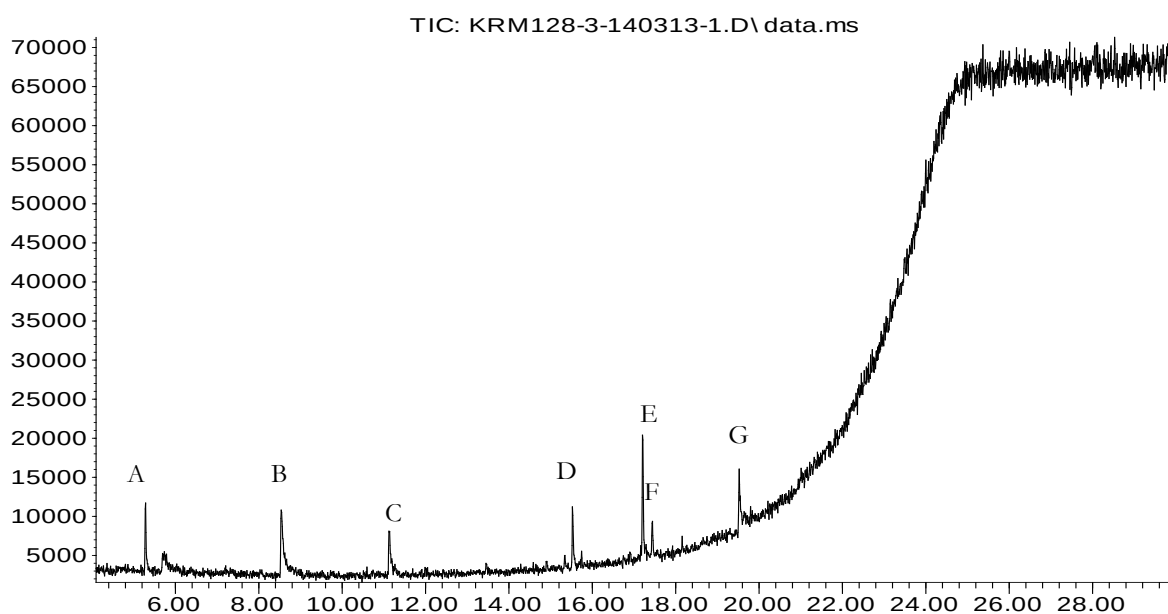
Octadecanamide

Abundance



SAMPLE KRM128-001: Chloroform/Methanol Extraction and FAME Derivatistation
siloxanes

Abundance



SAMPLE KRM128-003: FAME Derivatisation

A) Undecane. B) Decanoic Acid, Methyl Ester C) Undecanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester E) Octadecenoic Acid, Methyl Ester F) Octadecanoic Acid, Methyl Ester. G) Octadecanamide.

KRM 129

Red Wine. McGuigen Estate Shiraz, Southern Australia, 2012.

KRM 129-001

Sample Weight: $0.17940\text{g} \pm 0.00002\text{g}$

KRM 129-002 – dissolved in hexane

Sample Weight: $0.18159\text{g} \pm 0.00001\text{g}$

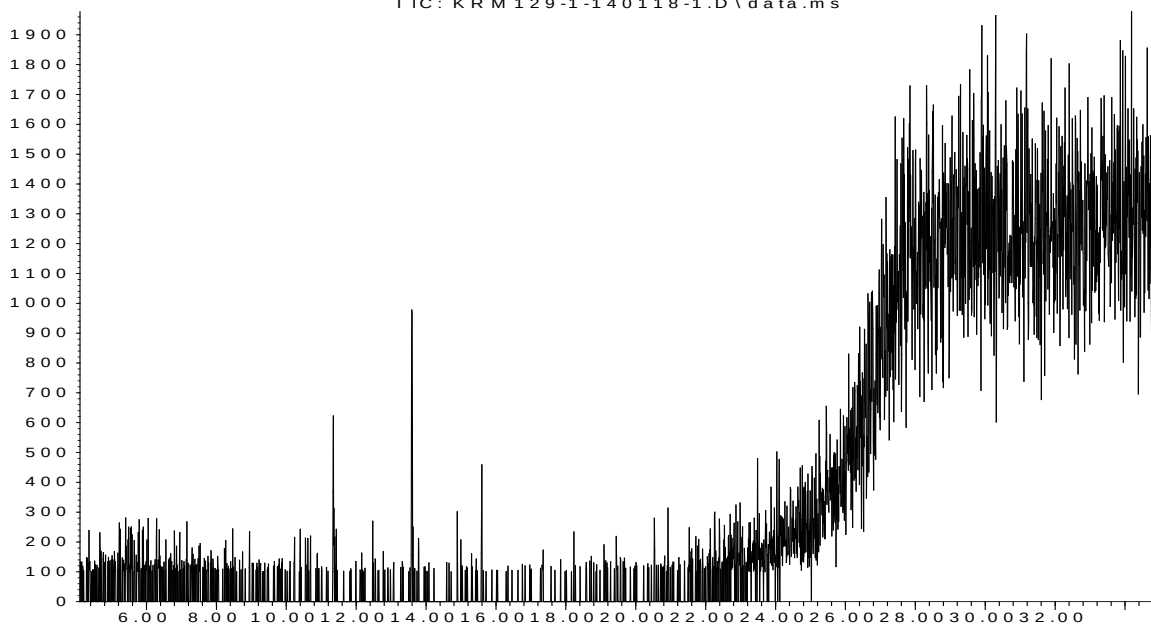
KRM 129-003 - FAME derivatisation

Sample Weight: $0.15929\text{g} \pm 0.00001\text{g}$

No peaks

Abundance

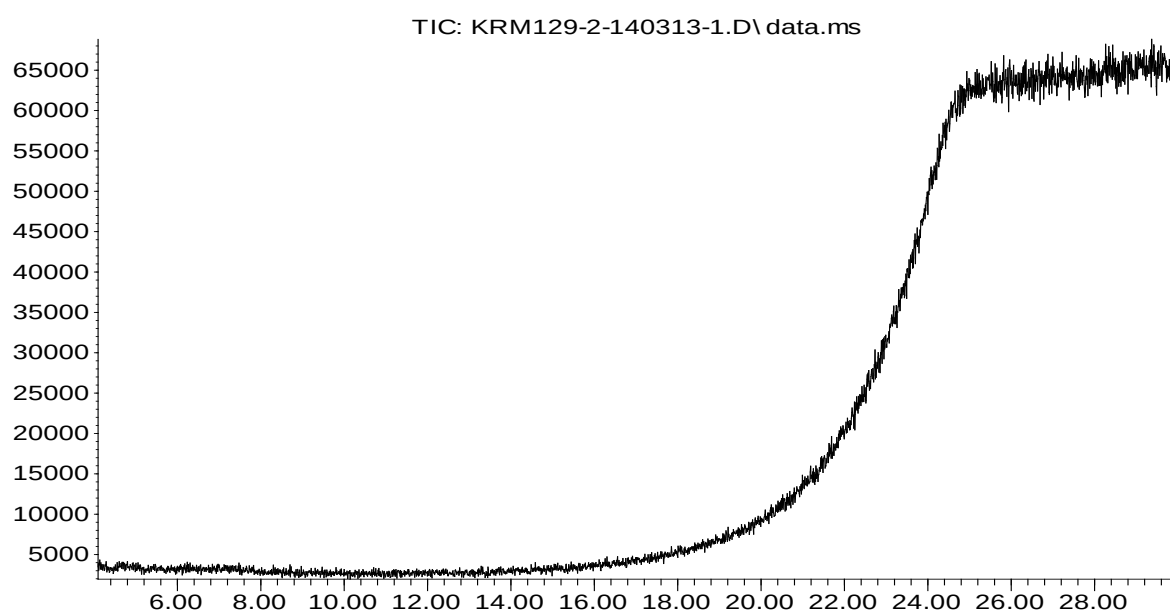
TIC: KRM 129-1-140118-1.D\data.ms



Time-->

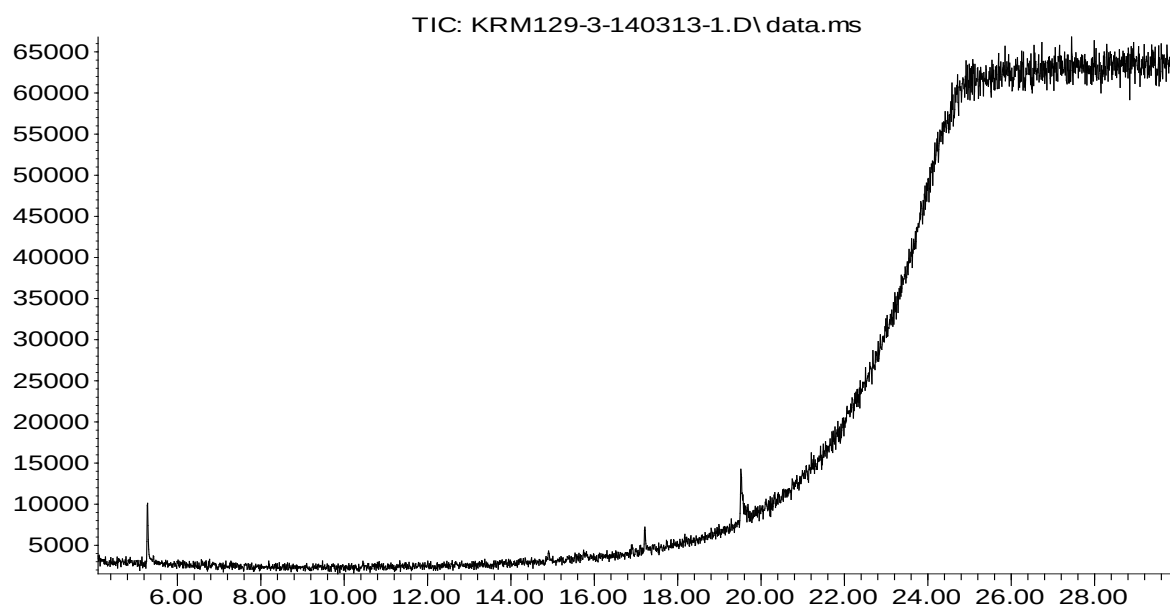
SAMPLE KRM129-001: Pure

Abundance



SAMPLE KRM129-002: Dissolved in Hexane

Abundance



SAMPLE KRM129-003: Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 130

Mayonnaise. Kraft.

KRM 130-001

Sample Weight: 0.15513g $\pm$ 0.00001g

KRM 130-002

Sample Weight: 0.11518g $\pm$ 0.00001g

Major Peak:

Octadecenoic Acid, Methyl Ester

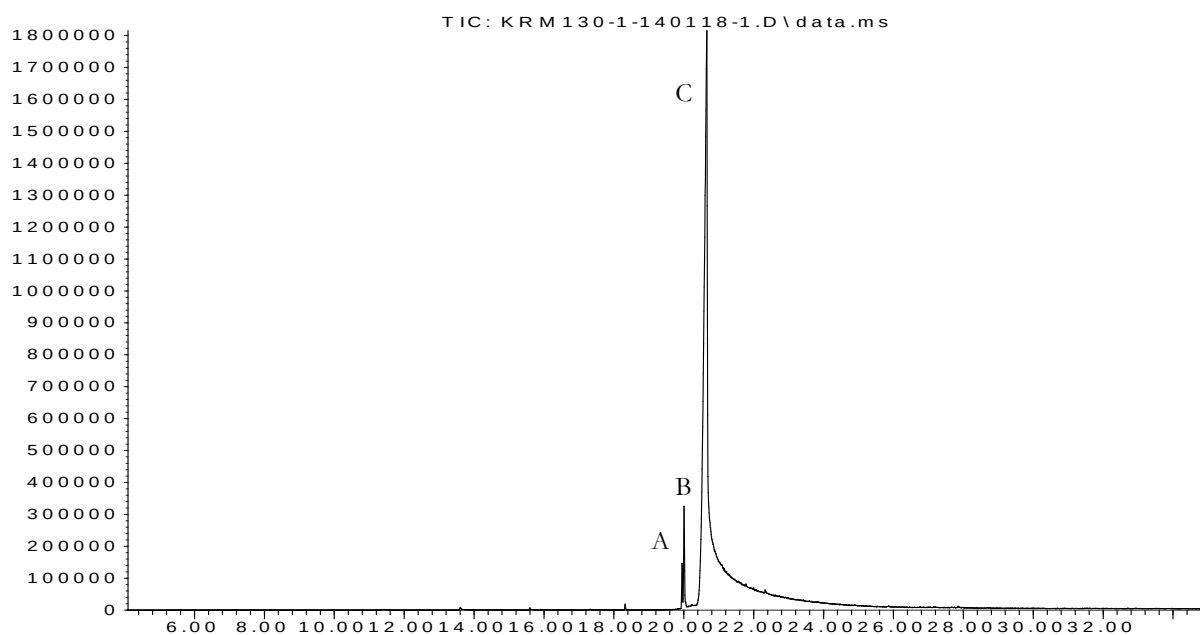
Octadecadienoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

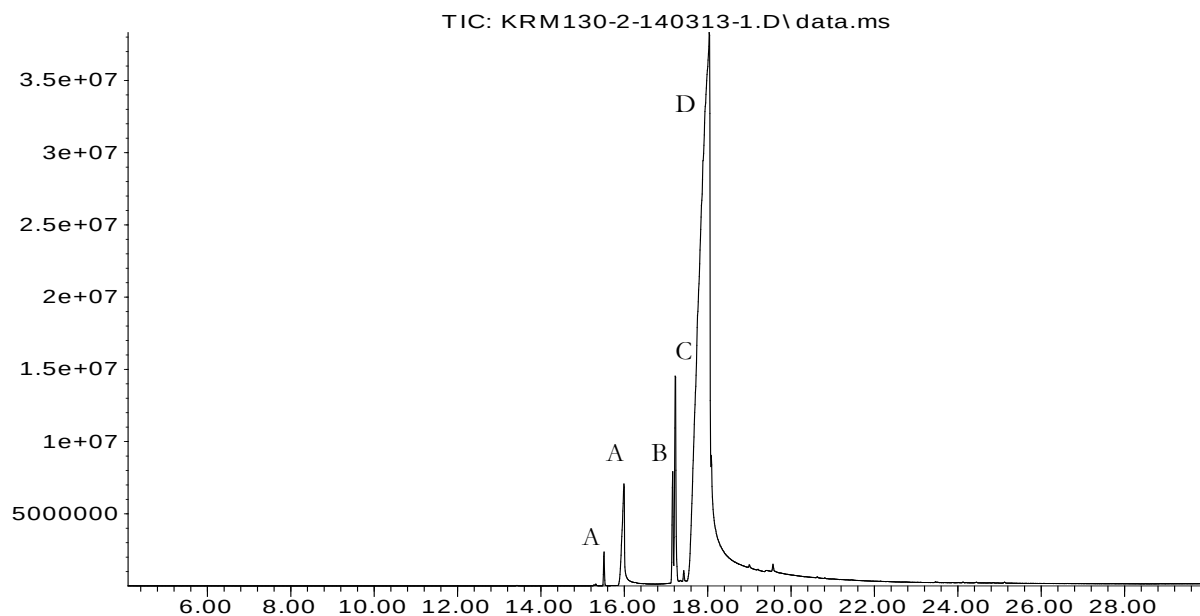
Abundance



SAMPLE KRM130-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Octadecadienoic Acid, Methyl Ester B) Octadecenoic Acid, Methyl Ester. C) Mixture of C_{18:1} and C_{18:2}

Abundance



SAMPLE KRM130-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester B) Octadecadienoic Acid, Methyl Ester C) Octadecenoic Acids, D)
Mixture of C_{18:1} and C_{18:2}

KRM 131

Butter. Tesco, English Salted Butter.

KRM 131-002

Sample Weight: $0.12614\text{g} \pm 0.00001\text{g}$

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

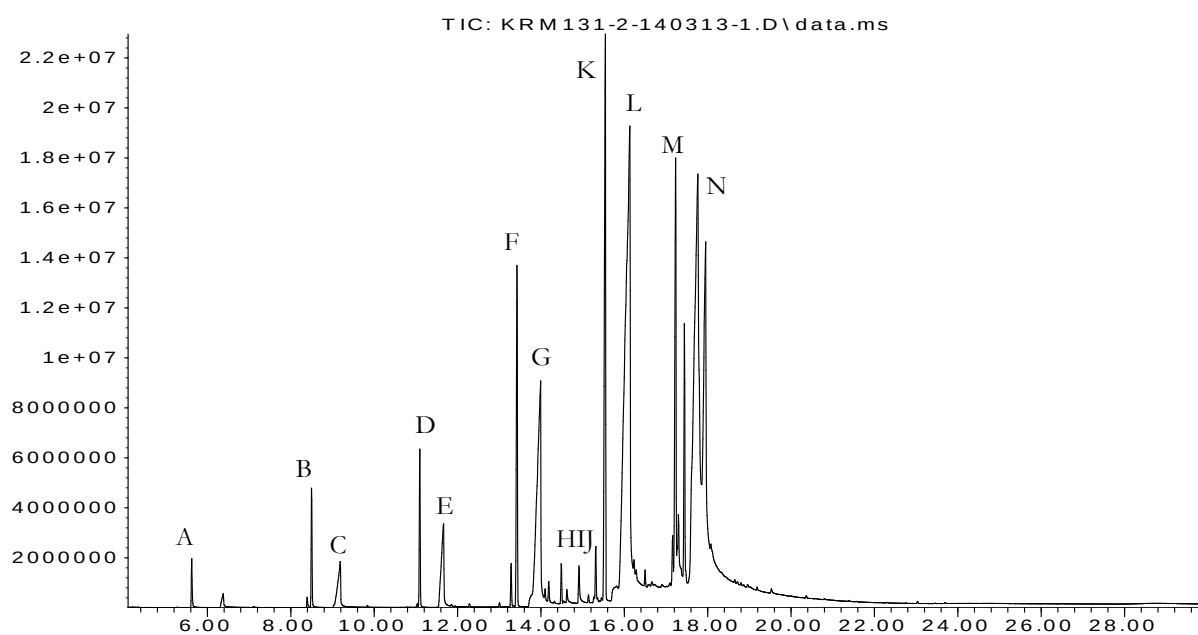
Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acids and their Methyl Esters: $\text{C}_{8:0}$, $\text{C}_{10:0}$, $\text{C}_{12:0}$, $\text{C}_{14:0}$, $\text{C}_{15:0}$, $\text{C}_{16:0}$, $\text{C}_{18:0}$

Alkenoic Acids and their Methyl Esters: $\text{C}_{16:1}$, $\text{C}_{18:1}$

Abundance



SAMPLE KRM131-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Octanoic Acid, Methyl Ester B) Decanoic Acid, Methyl Ester C) Decanoic Acid. D) Dodecanoic Acid, Methyl Ester E) Dodecanoic Acid. F)Tetradecanoic Acid, Methyl Ester. G) Tetradecanoic Acid. H) Pentadecanoic Acid, Methyl Ester I) Pentadecanoic Acid. J) Hexadecenoic Acid, Methyl Ester. K) Hexadecanoic Acid, Methyl Ester L) Hexadecanoic Acid M) Octadecenoic Acid, Methyl Ester. N)Octadecanoic Methyl Ester.

KRM 132

Lurpak Spreadable Butter.

KRM 132-001

Sample Weight: 0.18674g $\pm$ 0.00001g

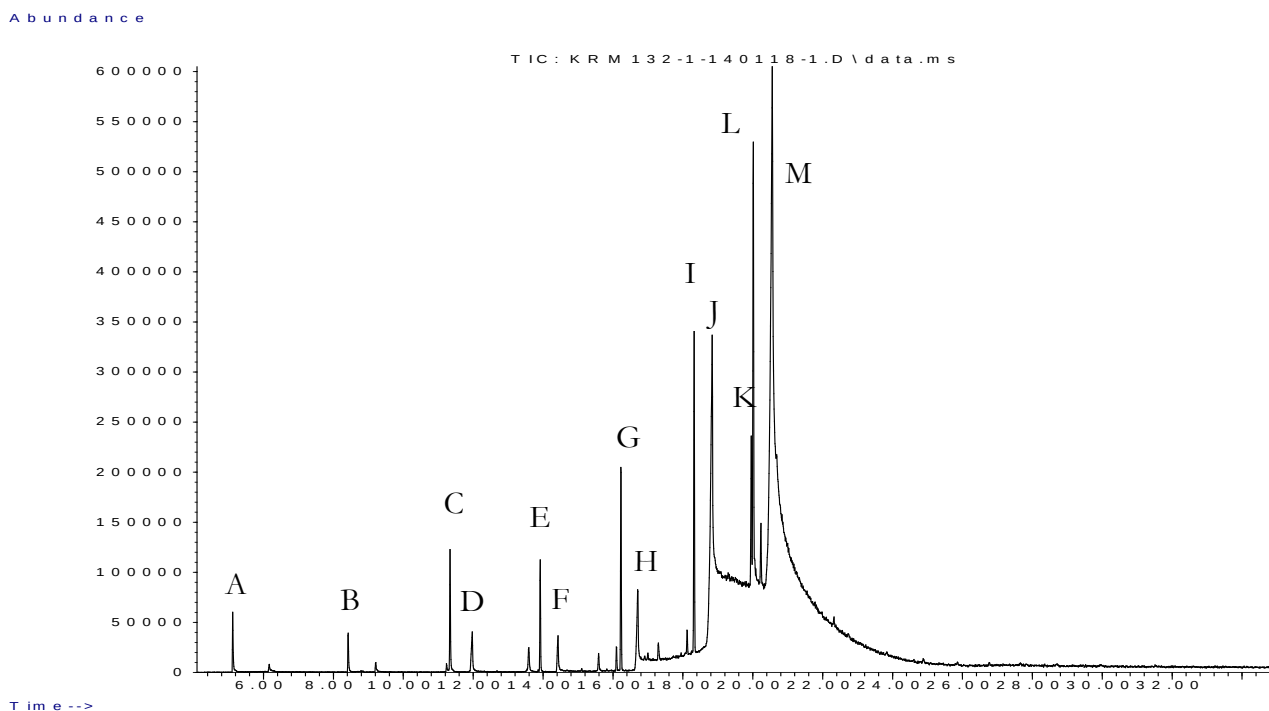
KRM 132-002

Sample Weight: 0.14956g $\pm$ 0.00001g

Major Peak:

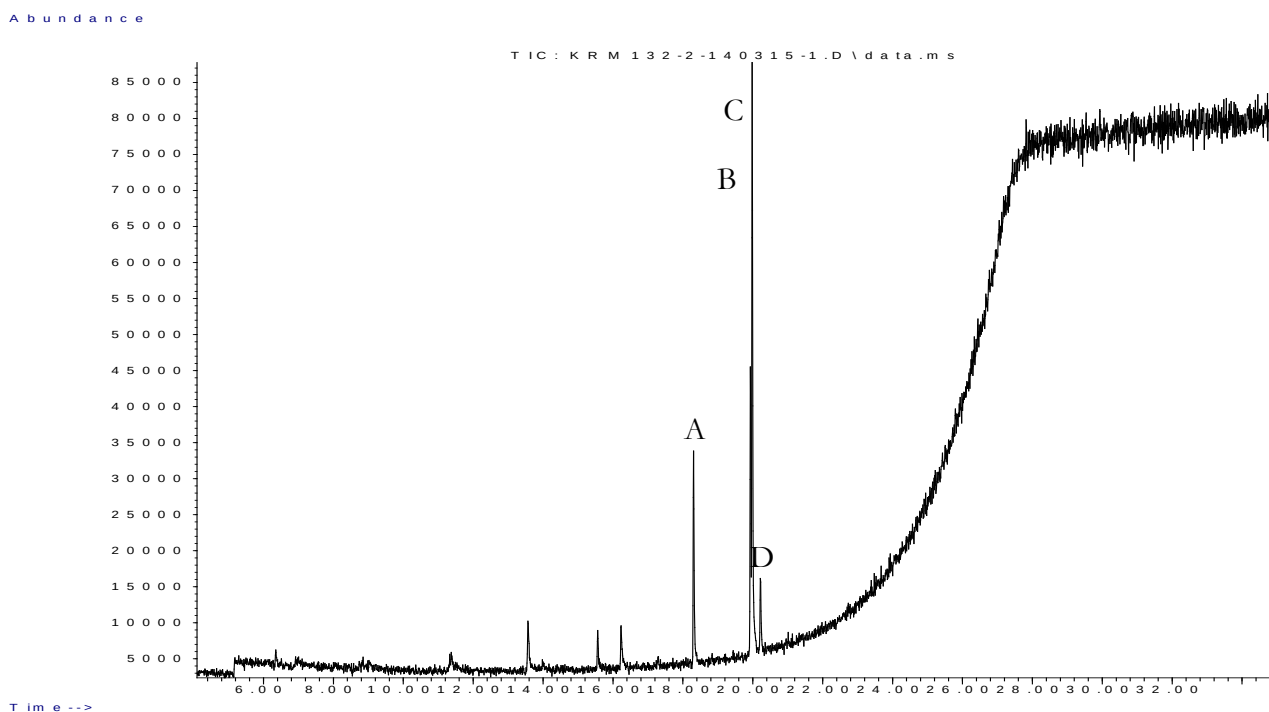
Secondary Peak:

Other Peaks of Note:



SAMPLE KRM132-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Hexanoic Acid, Methyl Ester. B) Octanoic Acid, Methyl Ester. C) Decanoic Acid, Methyl Ester. D) Decanoic Acid. E) Dodecanoic Acid, Methyl Ester. F) Dodecanoic Acid. G) Tetradecanoic Acid, Methyl Ester. H) Tetradecanoic Acid. I) Hexadecanoic Acid, Methyl Ester. J) Hexadecanoic Acid. K) Octadecadienoic Acid, Methyl Ester L) Octadecenoic Acid, Methyl Ester. M) Octadecenoic Acid.



SAMPLE KRM132-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecadienoic Acid, Dimethyl Ester. C) Octadecenoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester.

KRM 133

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/026, pottery bucket 12, lab 2. Cultic context (?). Cult stand (?).

KRM 133-001/002

Sherd Weight: 2.90698g $\pm$ 0.00002g

Sherd Thickness: 4.14mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00312g $\pm$ 0.00001g (50.49%)

Potassium Hydroxide Extracted Residue: 0.00306g $\pm$ 0.00003g (49.51%)

Total Extracted Residue: 0.00618g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.07mg/g

Potassium Hydroxide Extraction Yield: 1.06mg/g

Total Yield: 2.13mg/g

Major Peak:

Decane

Secondary Peak:

Undecane

Other Peaks of Note:

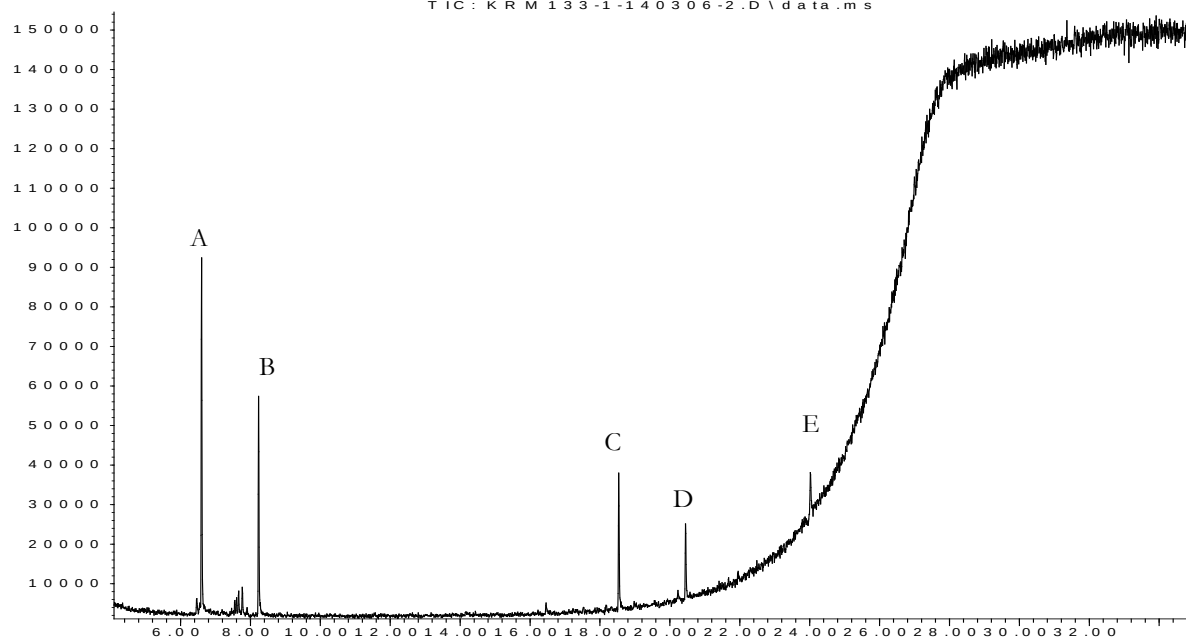
Hexadecanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

Phthalate Plasticisers

Abundance

TIC: KRM133-1-140306-2.D\data.ms



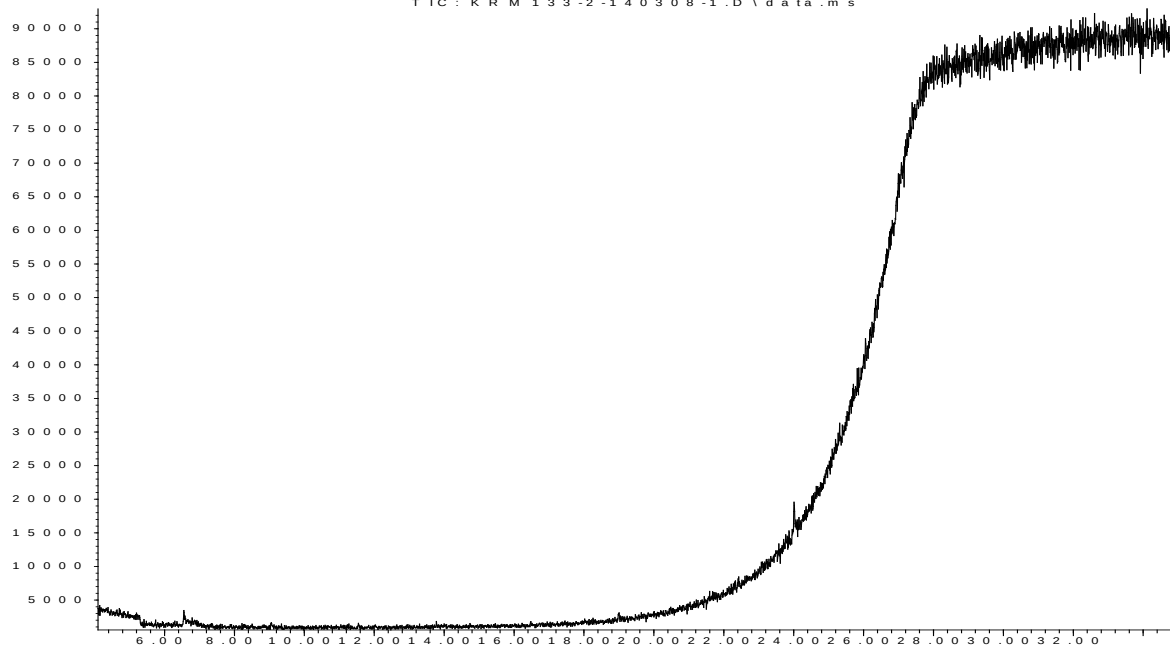
Time -->

SAMPLE KRM133-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Phthalate Plasticiser.

Abundance

TIC: KRM133-2-140308-1.D\data.ms



Time -->

SAMPLE KRM133-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Plasticiser

KRM 133-003/004Sherd Weight: 0.99393g $\pm$ 0.00001gSherd Thickness: 3.18mm $\pm$ 0.01mmChloroform Methanol Extracted Residue: 0.00145g $\pm$ 0.00001g (1.32%)Potassium Hydroxide Extracted Residue: 0.10815g $\pm$ 0.00001g (98.68%)Total Extracted Residue: 0.10960g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 1.46mg/g

Potassium Hydroxide Extraction Yield: 108.81mg/g

Total Yield: 116.68mg/g

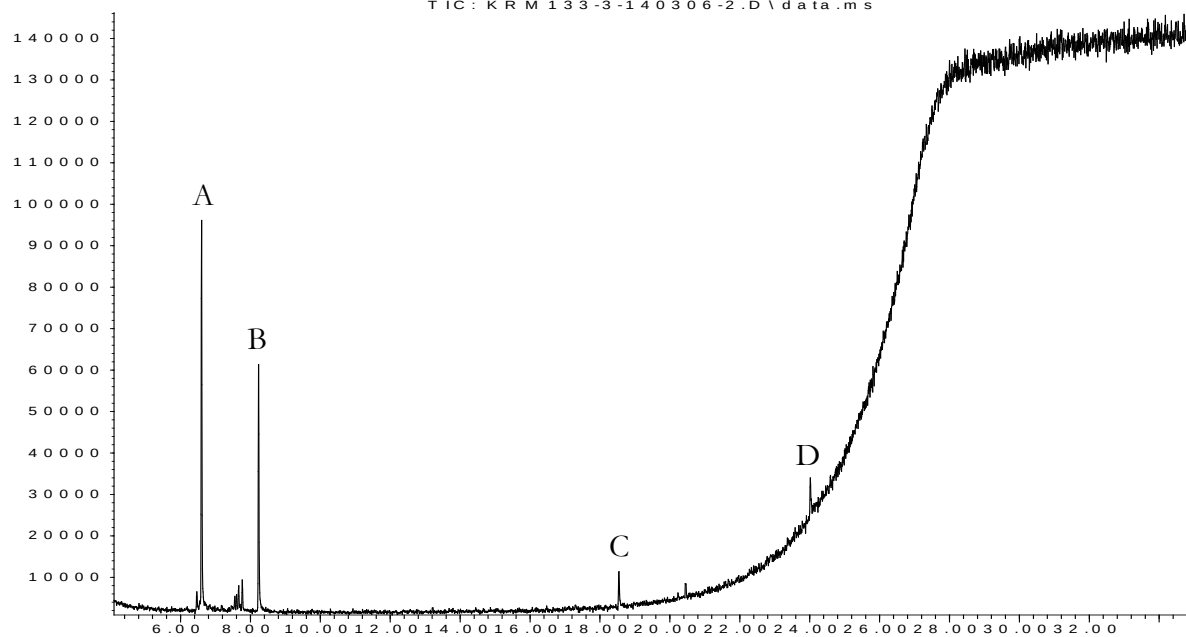
Major Peak:

Secondary Peak:

Other Peaks of Note:

Abundance

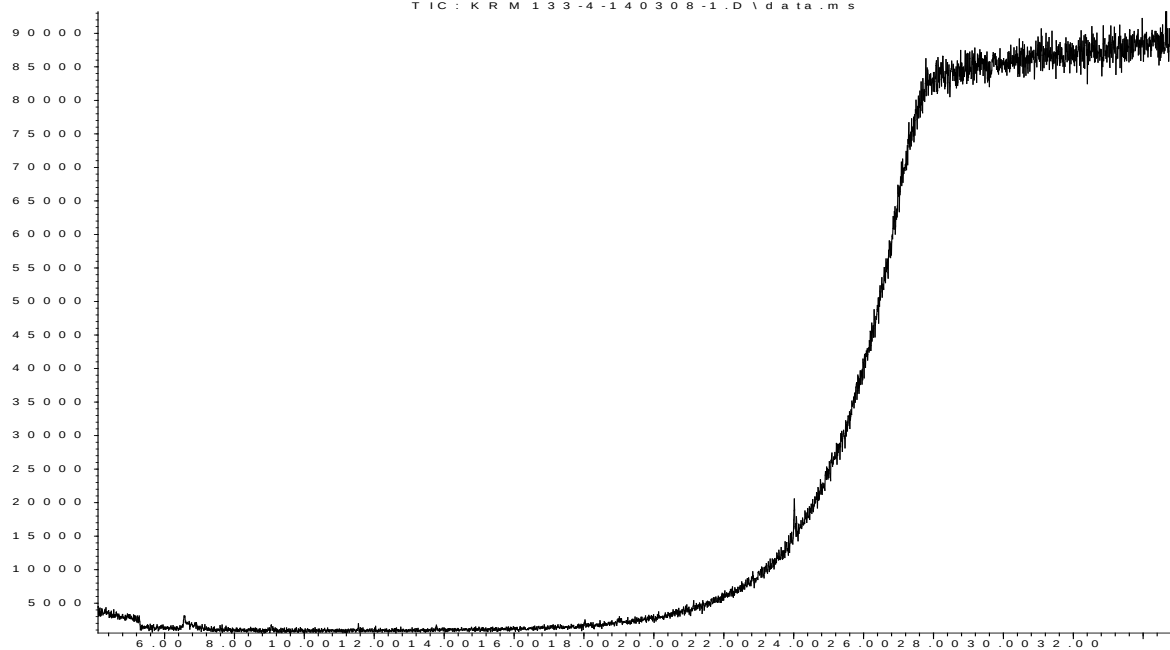
TIC: KRM133-3-140306-2.D\data.ms

**SAMPLE KRM133-003: Chloroform/Methanol Extraction and FAME Derivatisation**

A)Decane. B)Undeane. C) Hexadecanoic Acid, Methyl Ester. D)plasticiser.

Abundance

TIC: KRM133-4-140308-1.D\data.ms

**SAMPLE KRM133-004: Potassium Hydroxide Extraction and FAME Derivatisation**

KRM 134

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/037, pottery bucket 28, lab 35, vessel 2. Cultic context (?). Body sherd.

Sherd Weight: 6.51496g $\pm$ 0.00001g

Sherd Thickness: 5.38mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00308g $\pm$ 0.00002 g (26.01%)

Potassium Hydroxide Extracted Residue: 0.00876g $\pm$ 0.00001g (73.99%)

Total Extracted Residue: 0.01184g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 0.47mg/g

Potassium Hydroxide Extraction Yield: 1.35mg/g

Total Yield: 1.82mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanes: C10 C11

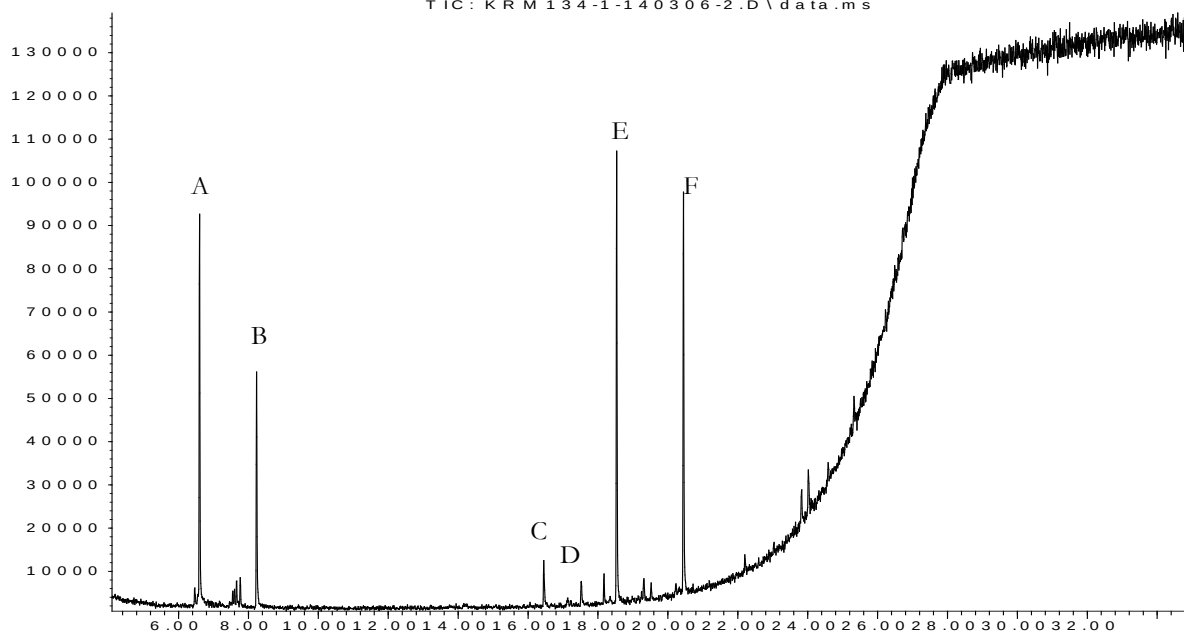
Alkanoic Acid Methyl Esters: C_{12:0}, C_{15:0}, C_{16:0}, C_{18:0}, C_{20:0}

Cross References:

Vessel: 135, 136

Abundance

TIC: KRM134-1-140306-2.D\data.ms



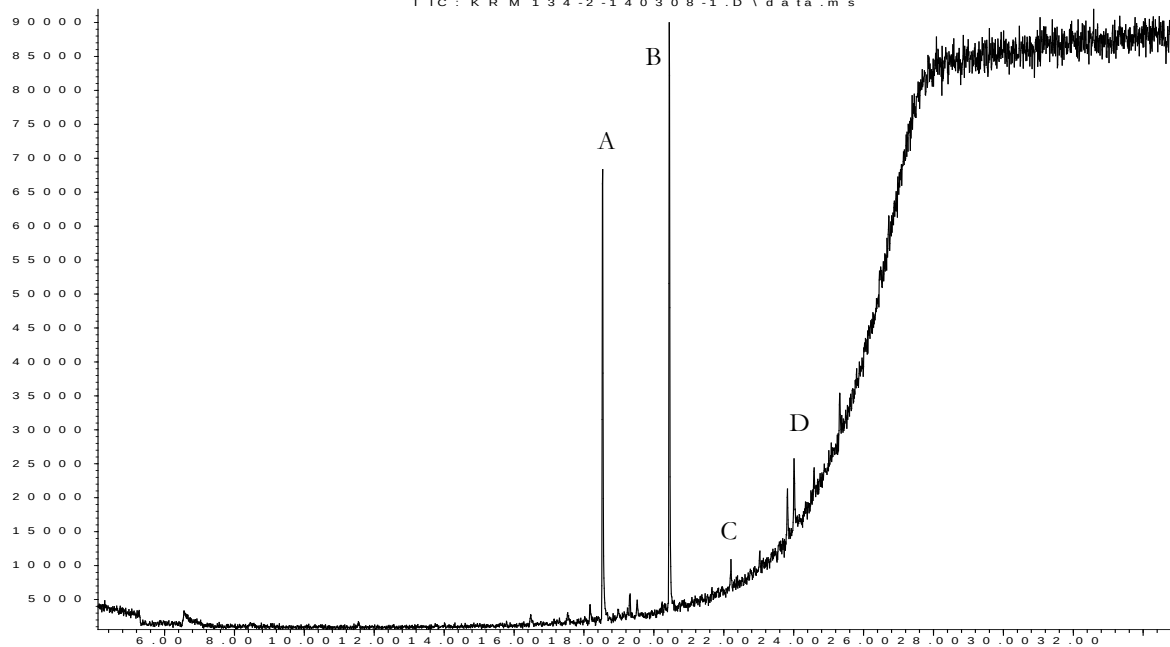
Time -->

SAMPLE KRM134-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane. C) Dodecanoic Acid, Methyl Ester D) Pentadecanoic Acid, Methyl Ester E) Hexadecanoic Acid, Methyl Ester F) Octadecanoic Acid, Methyl Ester

Abundance

TIC: KRM134-2-140308-1.D\data.ms



Time -->

SAMPLE KRM134-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester, B) Octadecanoic Acid, Methyl Ester. C) Eicosanoic Acid, Methyl Ester D) Bis(2-ethylhexyl)Phthalate.

KRM 135

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/037, pottery bucket 28, lab 35, vessel 2. Cultic context (?). Base sherd.

Sherd Weight: $2.87625\text{g} \pm 0.00001\text{g}$

Sherd Thickness: $3.18\text{mm} \pm 0.01\text{mm}$

Chloroform Methanol Extracted Residue: $0.00636\text{g} \pm 0.00002\text{g}$ (1.32%)

Potassium Hydroxide Extracted Residue: $0.01830\text{g} \pm 0.00001\text{g}$ (98.68%)

Total Extracted Residue: $0.02466\text{g} \pm 0.00002\text{g}$

Chloroform Methanol Extraction Yield: 2.21mg/g

Potassium Hydroxide Extraction Yield: 6.43mg/g

Total Yield: 8.57mg/g

Major Peak:

Decane

Secondary Peak:

Undecane

Other Peaks of Note:

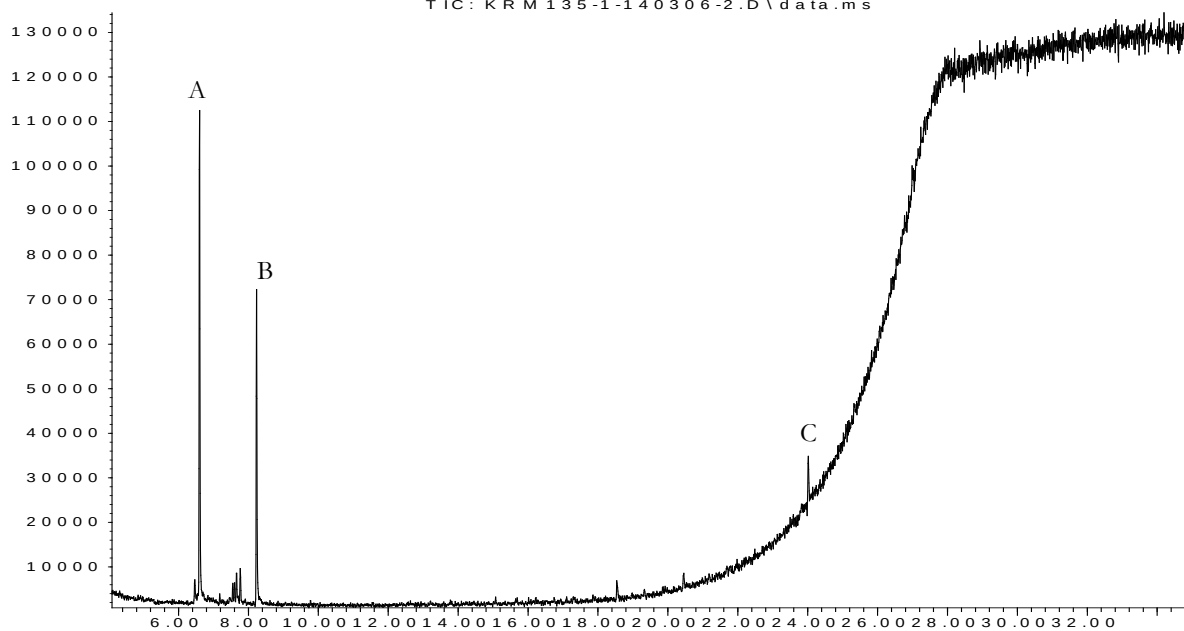
Phthalate Plasticiser

Cross References:

Vessel: 134, 136

Abundance

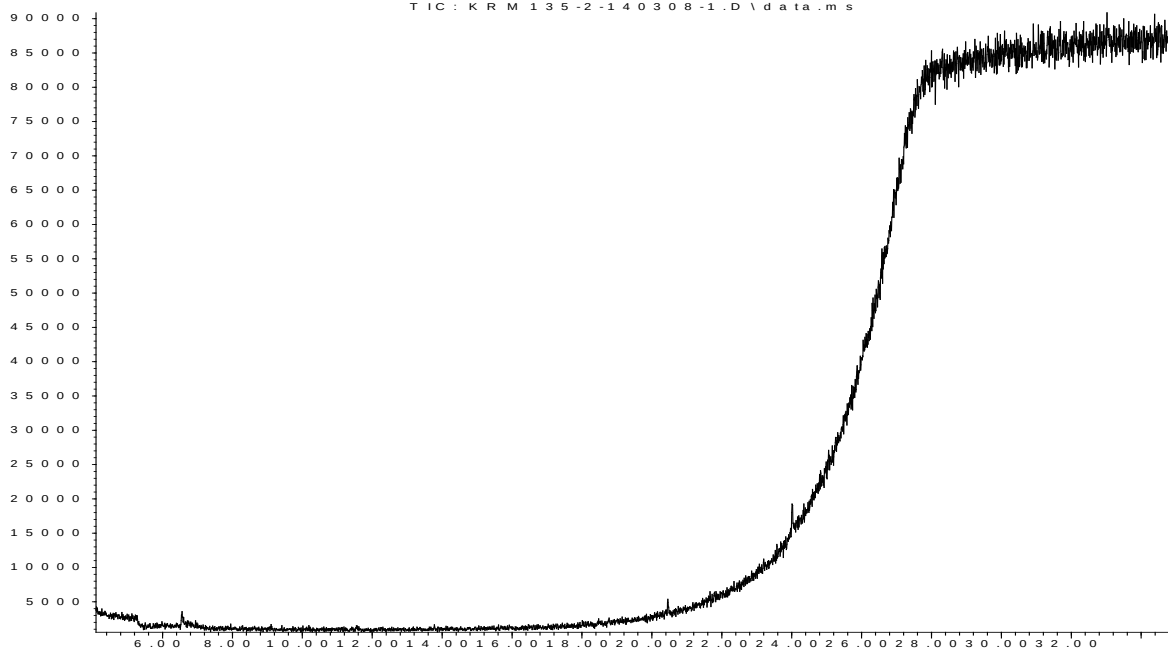
TIC: KRM135-1-140306-2.D\data.ms

**SAMPLE KRM135-001: Chloroform/Methanol Extraction and FAME Derivatistation**

A) Decane. B)Undecane C) Bis(2-ethylhexyl) Phthalate

Abundance

TIC: KRM135-2-140308-1.D\data.ms

**SAMPLE KRM135-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

KRM 136

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/037, pottery bucket 28, lab 35, vessel 2. Cultic context (?). Rim sherd.

Sherd Weight: 5.00637g $\pm$ 0.00001g
 Sherd Thickness: 22mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue:	0.00688g $\pm$ 0.00001g	(99.42%)
Potassium Hydroxide Extracted Residue:	0.00004g $\pm$ 0.00004g	(0.58%)
Total Extracted Residue:	0.00692g $\pm$ 0.00004g	

Chloroform Methanol Extraction Yield:	1.37mg/g
Potassium Hydroxide Extraction Yield:	insignificant
Total Yield:	1.38mg/g

Major Peak:

Decane

Secondary Peak:

Undecane

Other Peaks of Note:

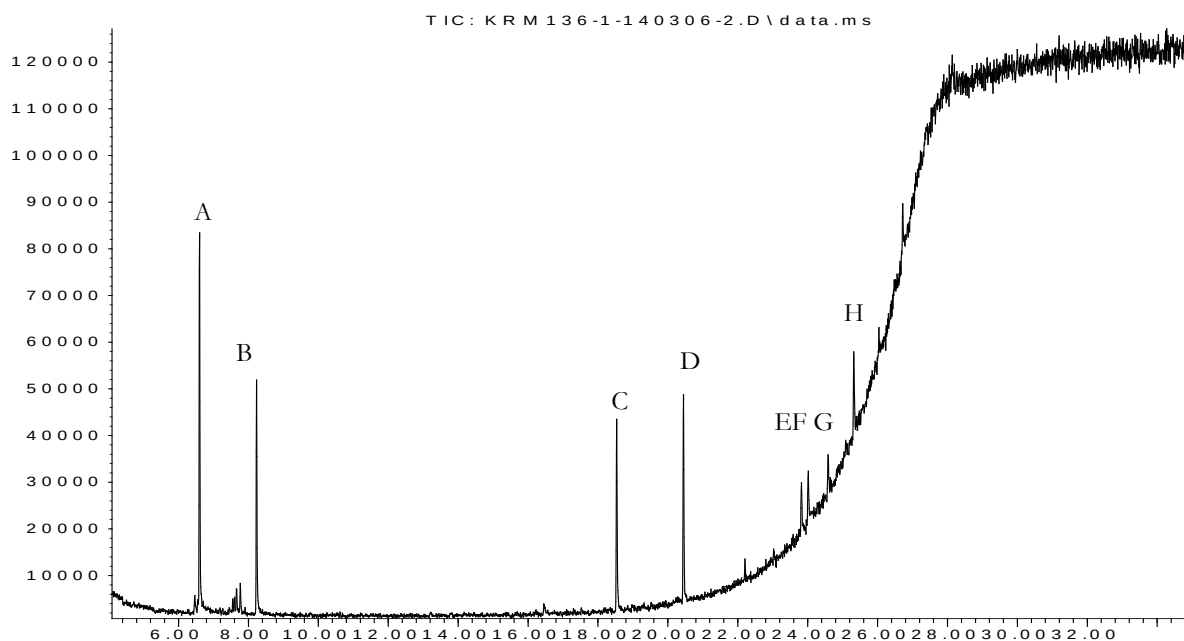
Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}, C_{22:0}, C_{23:0} C_{24:0}

Plasticiser

Cross-References:

Vessel: 134, 135

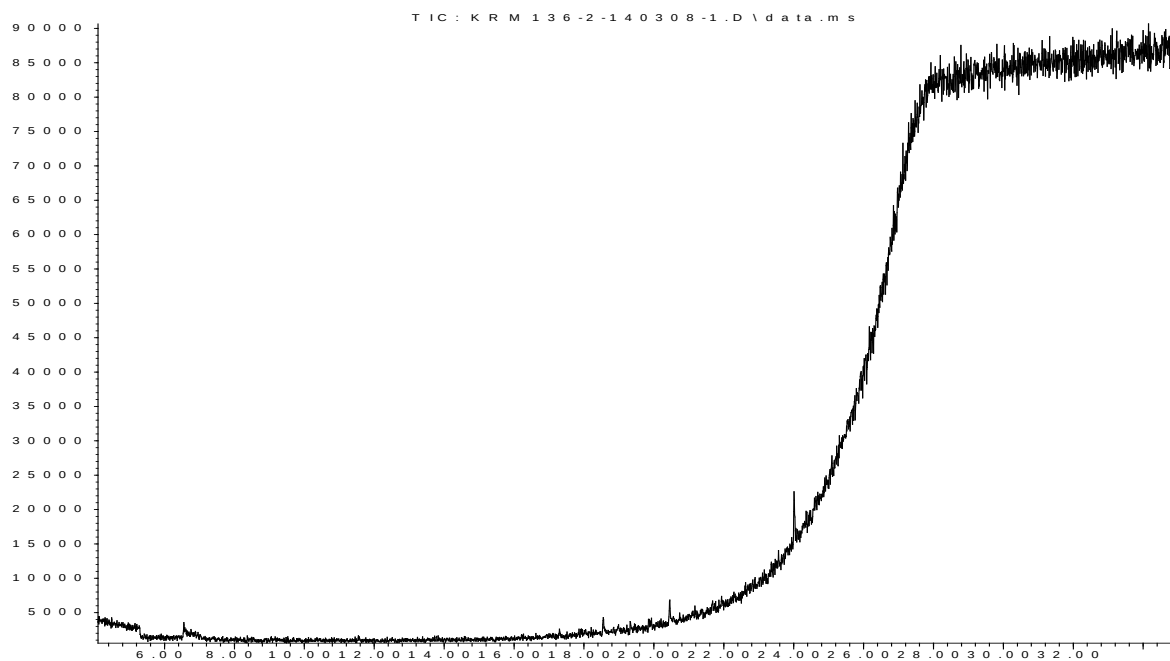
Abundance



SAMPLE KRM136-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Docosenoic Acid, Methyl Ester F) Phthalate Plasticiser G) Tricosanoic Acid, Methyl Ester H) Tetracosanoic Acid, Methyl Ester.

Abundance



SAMPLE KRM136-002: Potassium Hydroxide Extraction and FAME Derivatistaion

Phthalate platiciser.

KRM 137

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/091, pottery bucket 3. Cultic context (?). Cult stand sherd.

Sherd Weight: 8.77450g $\pm$ 0.00003g

Sherd Thickness: 8.01mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00597g $\pm$ 0.00001g (56.11%)

Potassium Hydroxide Extracted Residue: 0.00467g $\pm$ 0.00001g (43.89%)

Total Extracted Residue: 0.01064g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.68mg/g

Potassium Hydroxide Extraction Yield: 0.54mg/g

Total Yield: 1.21mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

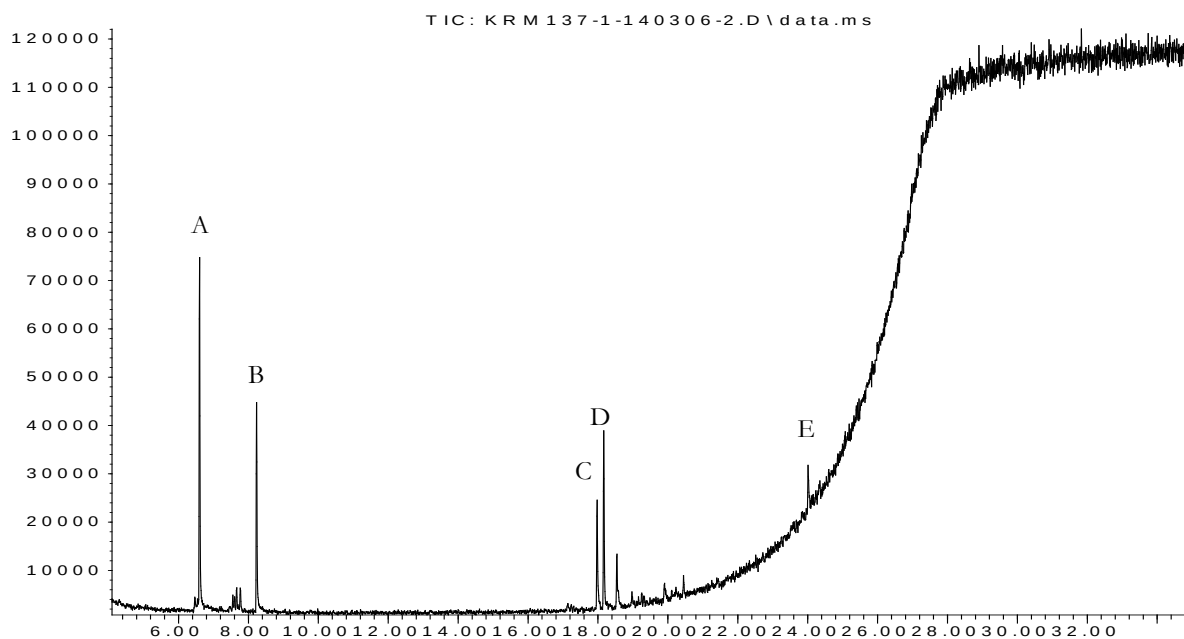
Plasticiser

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{15:0}, C_{16:0}, C_{17:0}, C_{18:0}

Alkenoic Acid Methyl Esters: C_{16:1}, C_{18:1}

Abundance

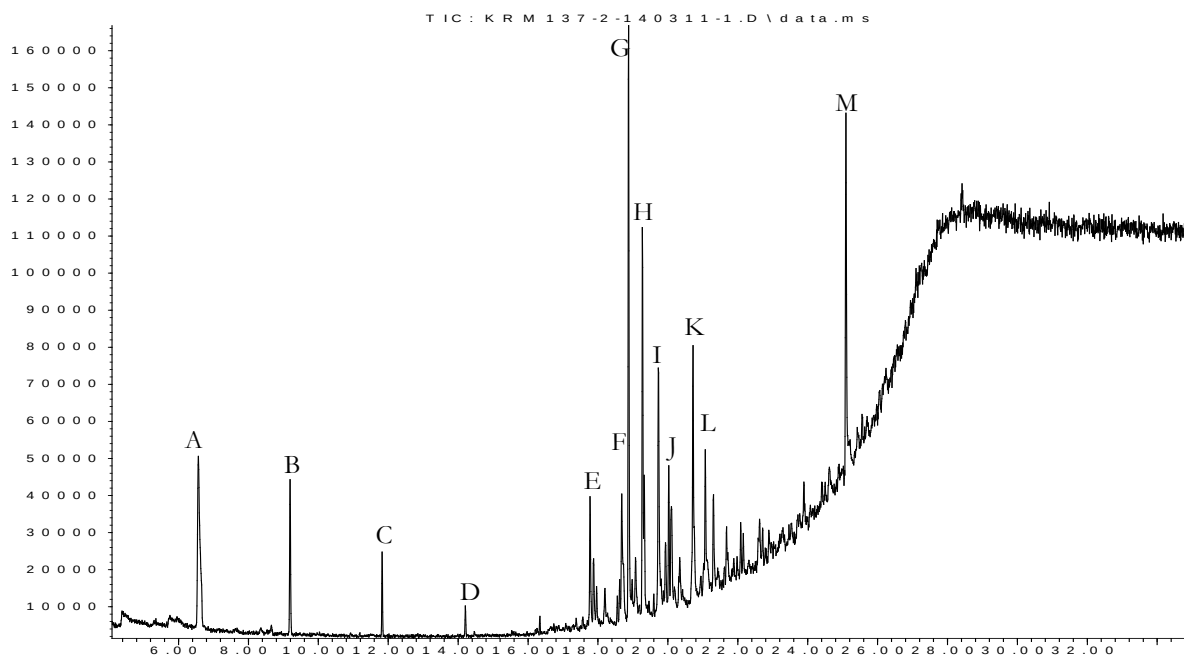


Time -->

SAMPLE KRM137-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane. C) Hexadecenoic Acid, Methyl Ester D) Hexadecanoic Acid, Methyl Ester E) Phthalate Plasticiser

Abundance



Time -->

SAMPLE KRM137-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A-D) cyclosiloxanes. E) Pentadecanoic Acid, Methyl Ester F) Hexadecenoic Acid, Methyl Ester G, H) Hexadecanoic Acid, Methyl Ester isomers. I) Phthalate J) Heptadecanoic Acidi, Methyl Ester. K) Octadecenoic Acid, Methyl Ester. L) Octadecanoic Acid, Methyl Ester M) Bis(2-ethylhexyl)Phthalate.

KRM 138

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/094, pottery bucket 2. Pit in cultic context (?). Sherd from bowl.

Sherd Weight: 4.85218g $\pm$ 0.00002g

Sherd Thickness: 8.78mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00564g $\pm$ 0.00002g (85.33%)

Potassium Hydroxide Extracted Residue: 0.00097g $\pm$ 0.00001g (14.67%)

Total Extracted Residue: 0.00661g $\pm$ 0.00002g

Chloroform Methanol Extraction Yield: 1.16mg/g

Potassium Hydroxide Extraction Yield: 0.20mg/g

Total Yield: 1.36mg/g

Major Peak:

Decane

Phthalate Plasticiser

Secondary Peak:

Hexadecanoic Acid Methyl Ester

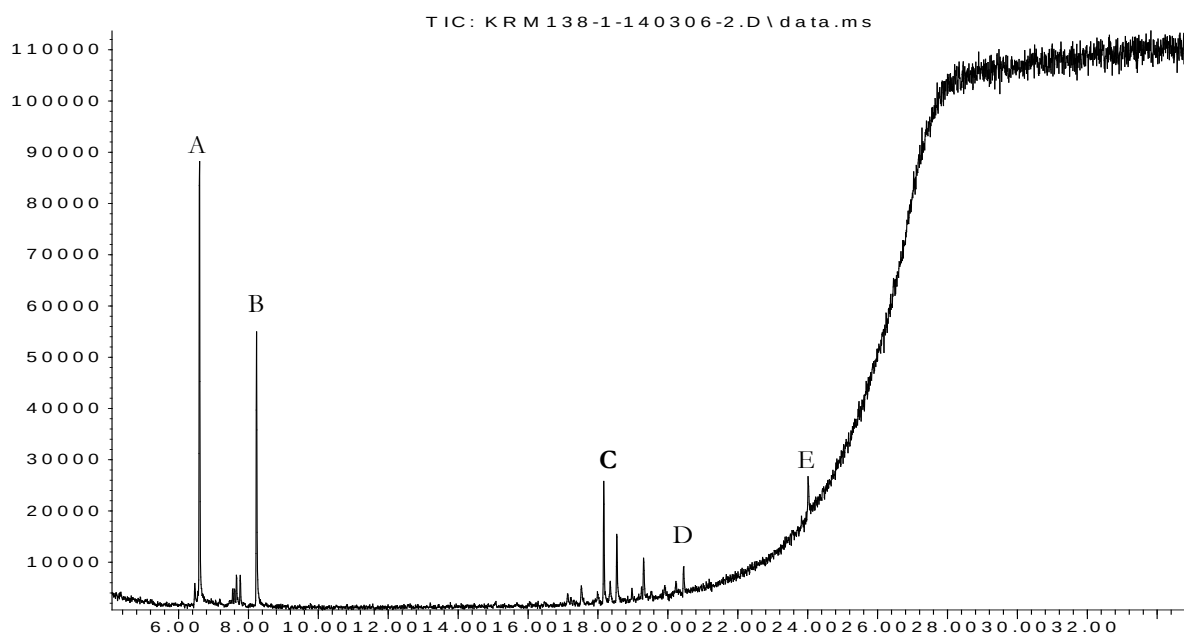
Other Peaks of Note:

Alkanoic Acids Methyl Esters: C_{15:0}, C_{16:0}, C_{18:0}

Cross-Reference:

Vessel: 139

Abundance

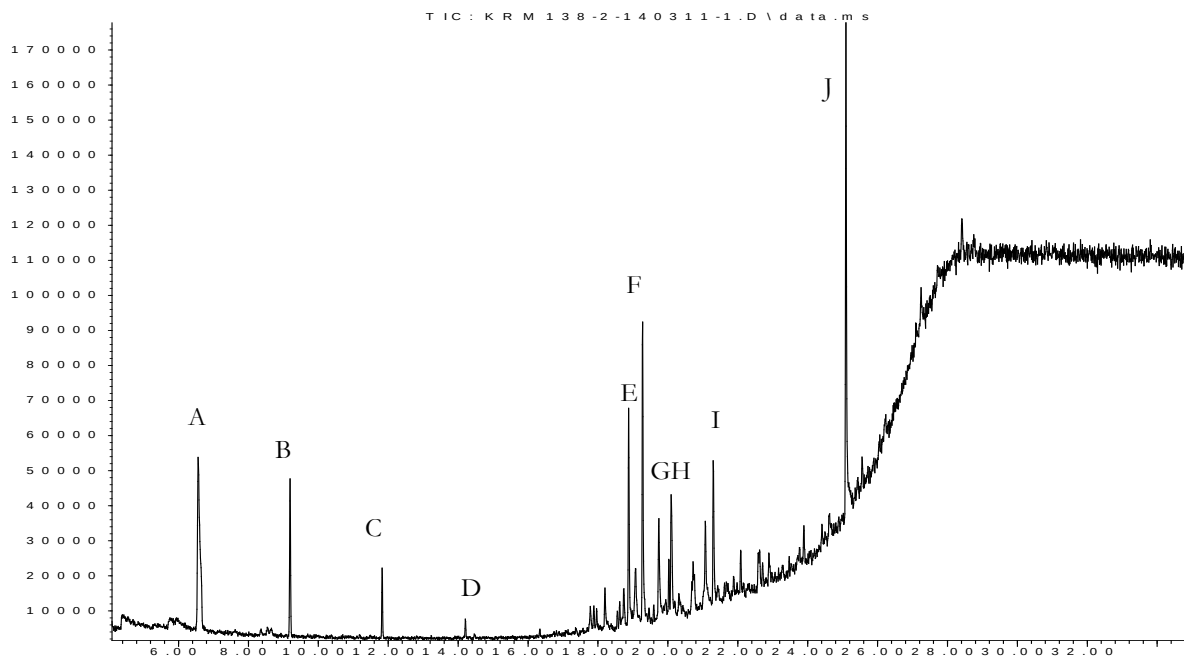


Time -->

SAMPLE KRM138-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Bis(2-ethylhexyl) Phthalte

Abundance



Time -->

SAMPLE KRM138-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A-D) siloxanes. E) Pentadecanoic Acid, Methyl Ester. F) Hexadecanoic Acid, Methyl Ester. G) Pthalate, H) Heptadecanoic Acid Methyl Ester. I) Octadecanoic Acid, Methyl Ester. J) Bis(2-ethylhyexy) Pthalate.

KRM 139

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/094, pottery bucket 2. Pit in cultic context (?). Sherds from bowl.

Sherd Weight: 4.99244g $\pm$ 0.00001g
 Sherd Thickness: 9.01mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.01266g $\pm$ 0.00001g
 Potassium Hydroxide Extracted Residue: insignificant
 Total Extracted Residue: 0.01266g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 2.54mg/g
 Potassium Hydroxide Extraction Yield: insignificant
 Total Yield: 2.54mg/g

Major Peak:

Decane

Secondary Peak:

Undecane

Other Peaks of Note:

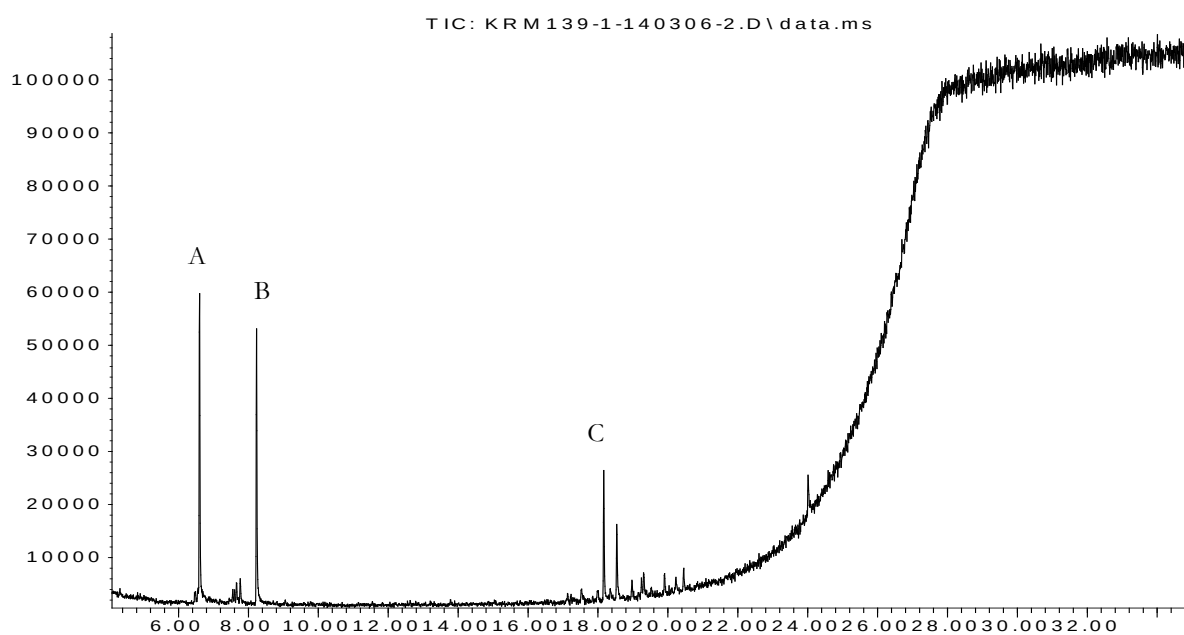
Hexadecanoic Acid, Methyl Ester

Phthalate Plasticisers

Cross-Reference:

Vessel: 138

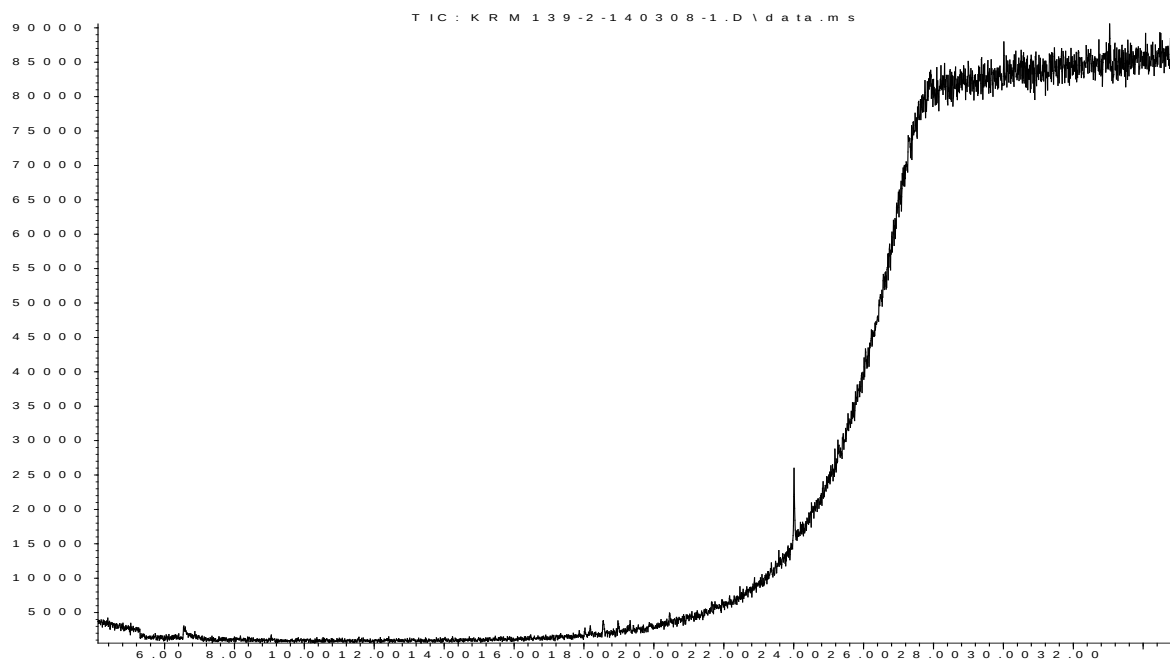
Abundance



SAMPLE KRM139-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane C) Hexadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM139-002: Potassium Hydroxide Extraction and FAME Derivatistaion

Phthalate Plasticiser

KRM 140

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/033, pottery bucket 9, vessel 1.
Cultic context (?). Rim sherd.

Sherd Weight: 10.36457g $\pm$ 0.00001g

Sherd Thickness: 9.64mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00787g $\pm$ 0.00001g (98.62%)

Potassium Hydroxide Extracted Residue: 0.00011g $\pm$ 0.00001g (1.38%)

Total Extracted Residue: 0.00798g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.76mg/g

Potassium Hydroxide Extraction Yield: 0.01mg/g

Total Yield: 0.77mg/g

Major Peak:

Decane

Secondary Peak:

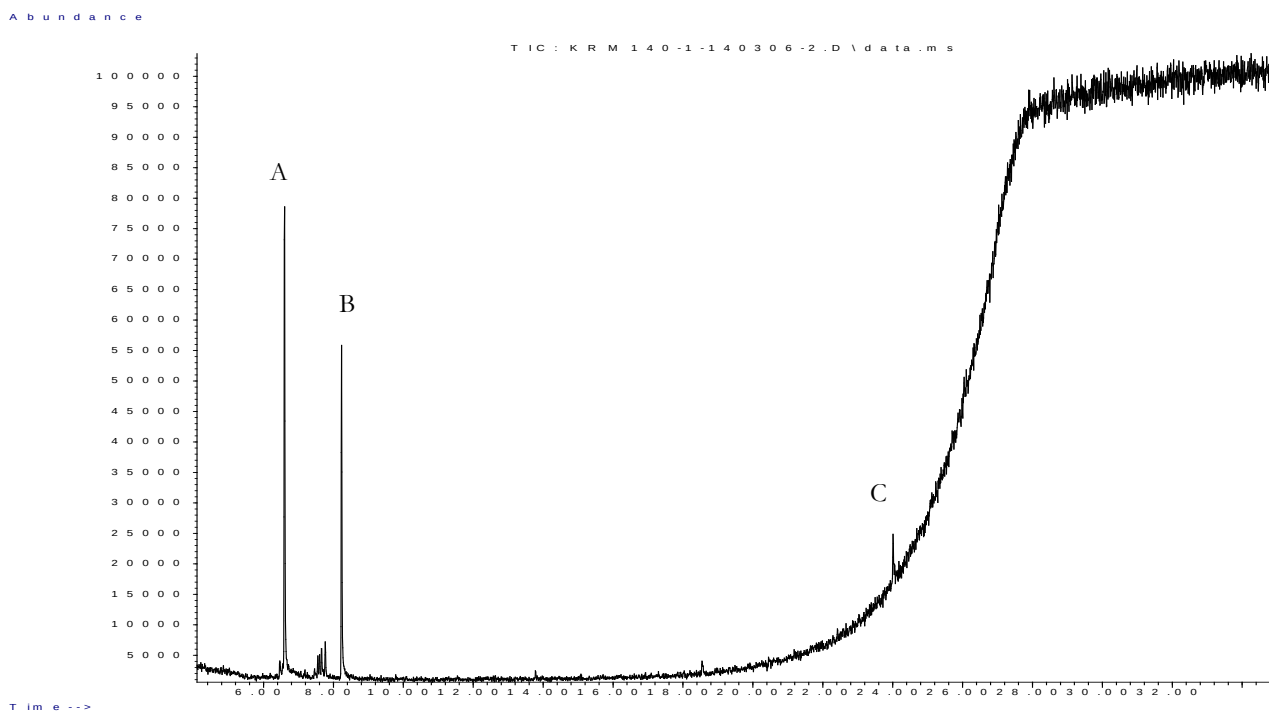
Undecane

Other Peaks of Note:

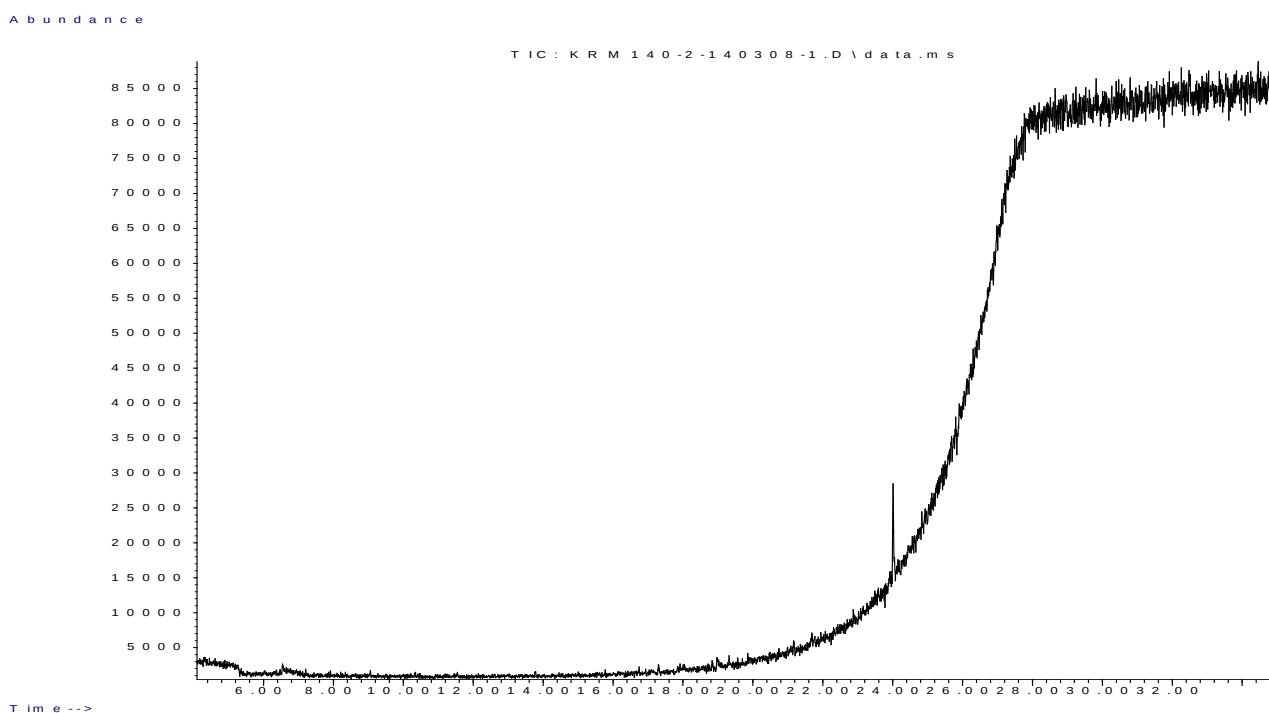
Phthalate Plasticiser

Cross References:

Vessel: 141, 142, 145



SAMPLE KRM140-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) Decane. B) Undecane. C) Bis(2-ethylhexyl)Phthalte.



SAMPLE KRM140-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Bis(2-ethylhexyl) Phthalate

KRM 141

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/033, pottery bucket 9, vessel 1.
Cultic context (?). Body sherd.

Sherd Weight: 9.46037g $\pm$ 0.00002g
Sherd Thickness: 8.09mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00711g $\pm$ 0.00001g
Potassium Hydroxide Extracted Residue: insignificant
Total Extracted Residue: 0.00711g $\pm$ 0.00001g

Chloroform Methanol Extraction Yield: 0.75mg/g
Potassium Hydroxide Extraction Yield: insignificant
Total Yield: 0.75mg/g

Major Peak:

Undecane

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

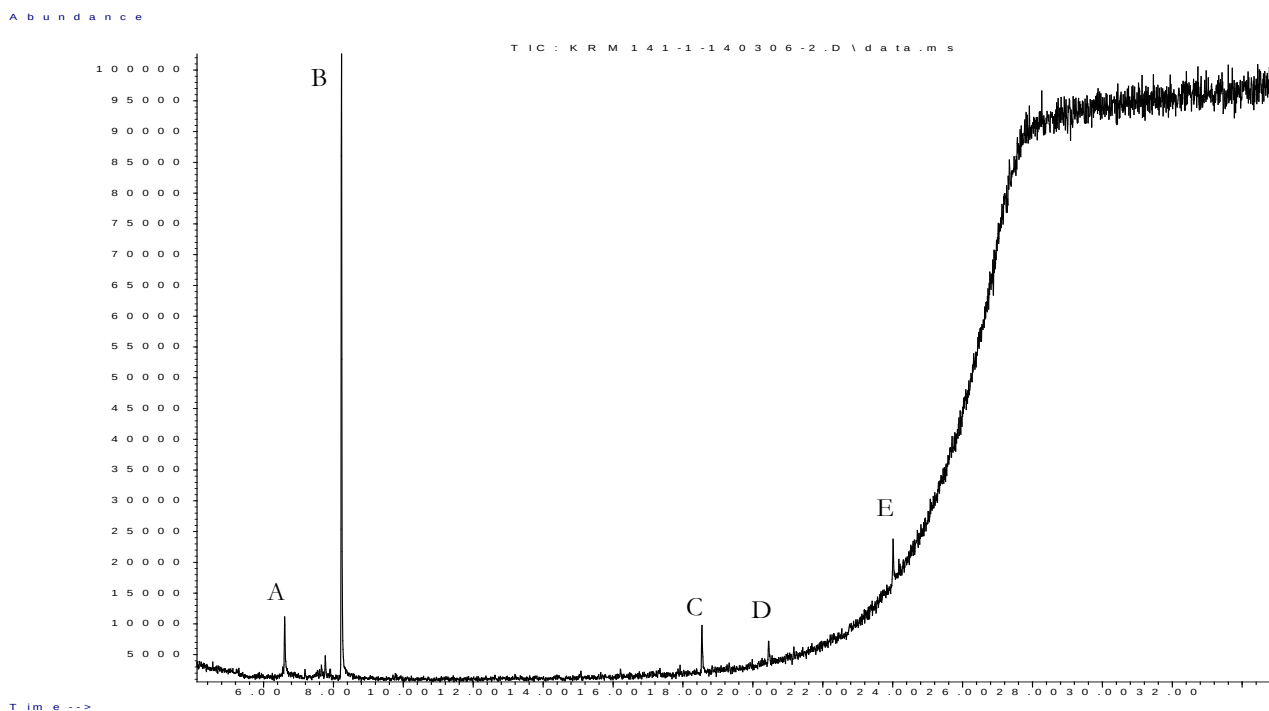
Decane

Octadecanoic Acid, Methyl Ester

Plasticiser

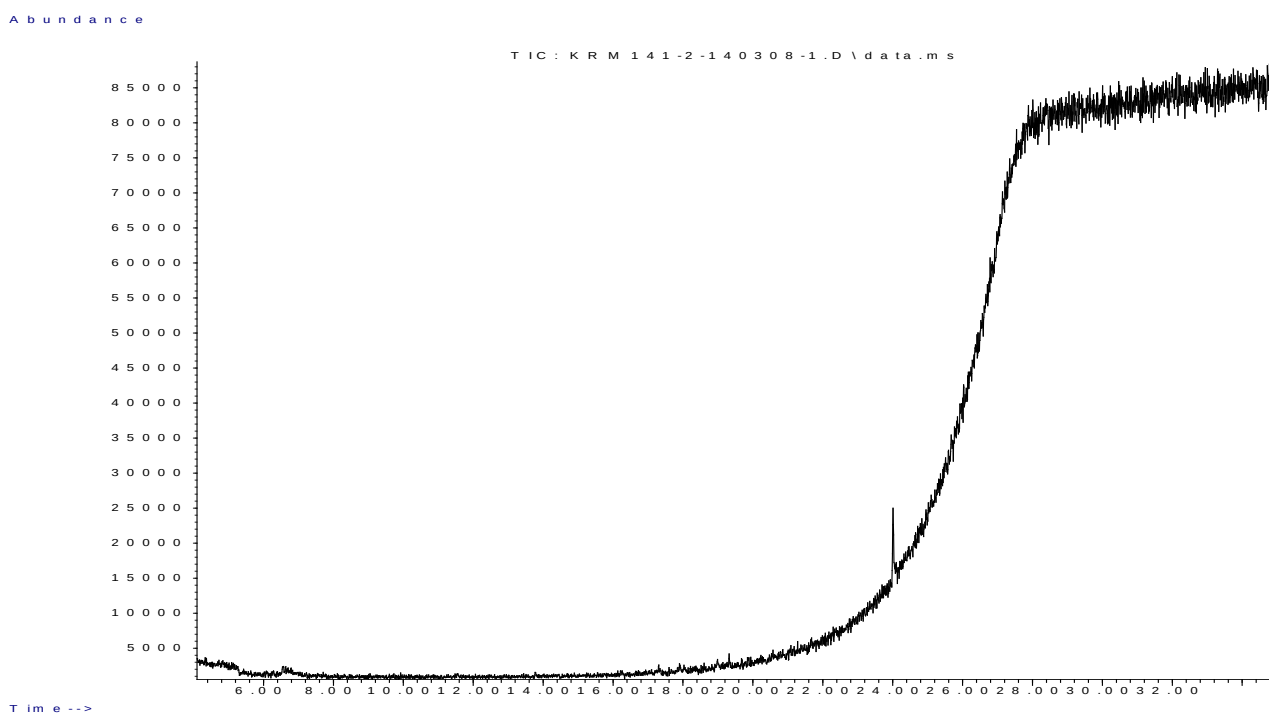
Cross References:

Vessel: 140, 142, 145



SAMPLE KRM141-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Decane. B) Undecane C) Hexadecanoic Acid Methyl Ester D) Octadecanoic Acid Methyl Ester E) Bis*2-ethylhexyl) Phthalte



SAMPLE KRM141-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Phthalate Plasticiser.

KRM 142

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/033, pottery bucket 9, vessel 1.
Cultic context (?). Body sherd.

Sherd Weight: 4.89936g $\pm$ 0.00001g
Sherd Thickness: 9.69mm $\pm$ 0.01mm

Chloroform Methanol Extracted Residue: 0.00686g $\pm$ 0.00003g
Potassium Hydroxide Extracted Residue: insignificant
Total Extracted Residue: 0.00686g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 1.40mg/g
Potassium Hydroxide Extraction Yield: insignificant
Total Yield: 1.40mg/g

Major Peak:

Undecane

Secondary Peak:

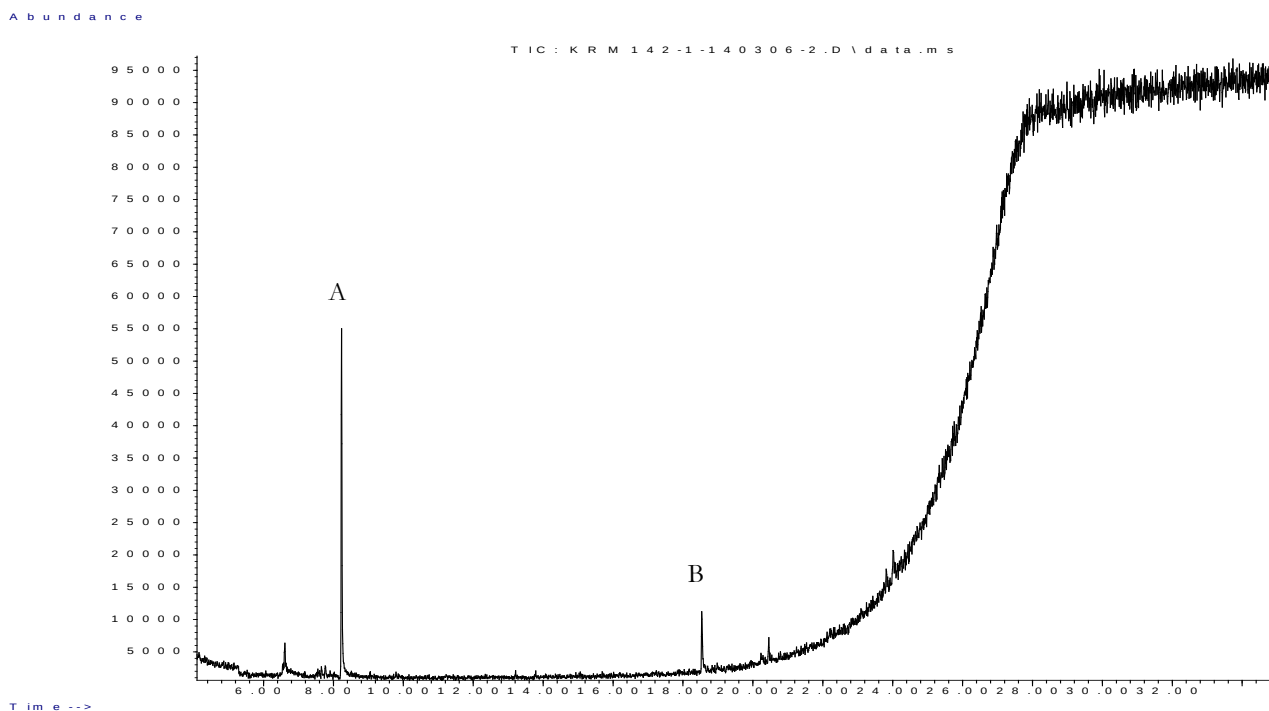
Hexadecanoic Acid Methyl Ester

Other Peaks of Note:

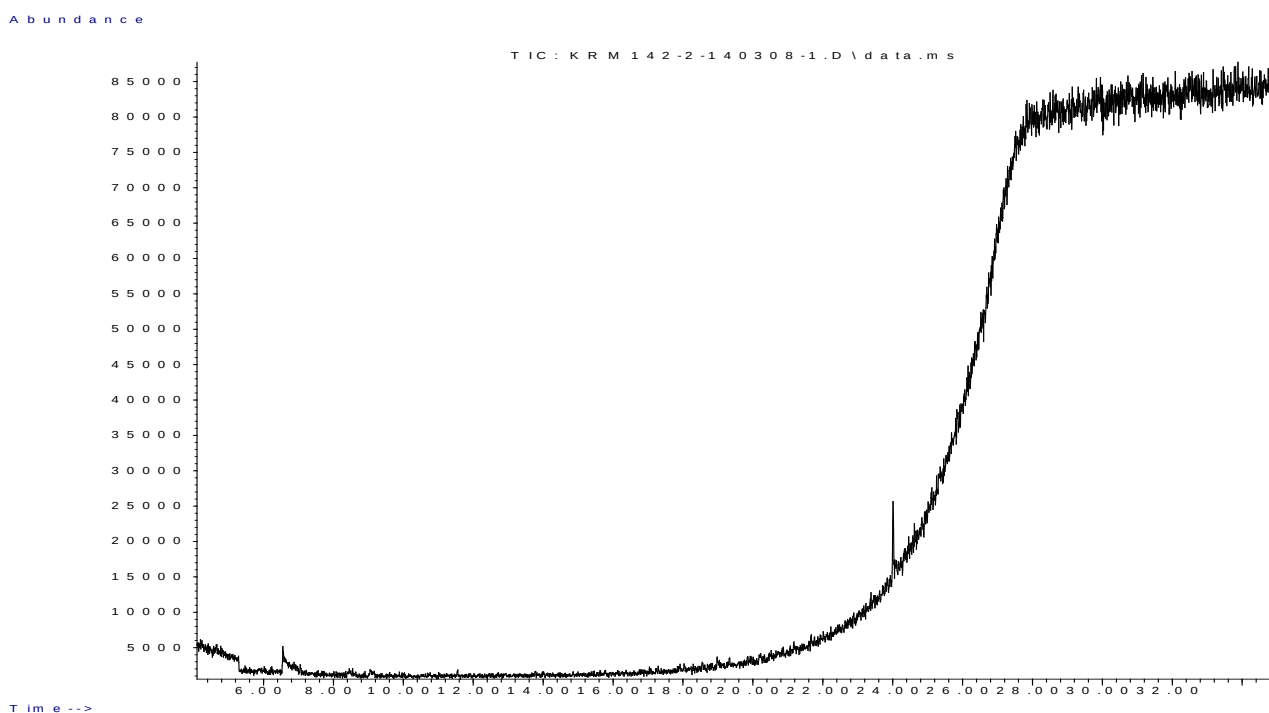
Plasticiser

Cross References:

Vessel: 140, 141, 145



SAMPLE KRM142-001: Chloroform/Methanol Extraction and FAME Derivatistation
A) Undecane. B) Hexadecanoic Acid, Methyl Ester



SAMPLE KRM142-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Phthalate Platicser

KRM 143

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/050, pottery bucket 1, lab 2. Cultic context (?) material from inside wall 10/10. Sherd.

Sherd Weight: $4.24406\text{g} \pm 0.00002\text{g}$

Chloroform Methanol Extracted Residue:	$0.00642\text{g} \pm 0.00002\text{g}$	(65.71%)
Potassium Hydroxide Extracted Residue:	$0.00335\text{g} \pm 0.00002\text{g}$	(34.29%)
Total Extracted Residue:	$0.00977\text{g} \pm 0.00003\text{g}$	

Chloroform Methanol Extraction Yield:	1.51mg/g
Potassium Hydroxide Extraction Yield:	0.82mg/g
Total Yield:	2.30mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Undecane

Other Peaks of Note:

Alkanoic Acid Methyl Esters: $\text{C}_{14:0}$, $\text{C}_{15:0}$, $\text{C}_{16:0}$, $\text{C}_{17:0}$, $\text{C}_{18:0}$, $\text{C}_{19:0}$, $\text{C}_{20:0}$, $\text{C}_{22:0}$, $\text{C}_{24:0}$, $\text{C}_{26:0}$, $\text{C}_{28:0}$

Squalene

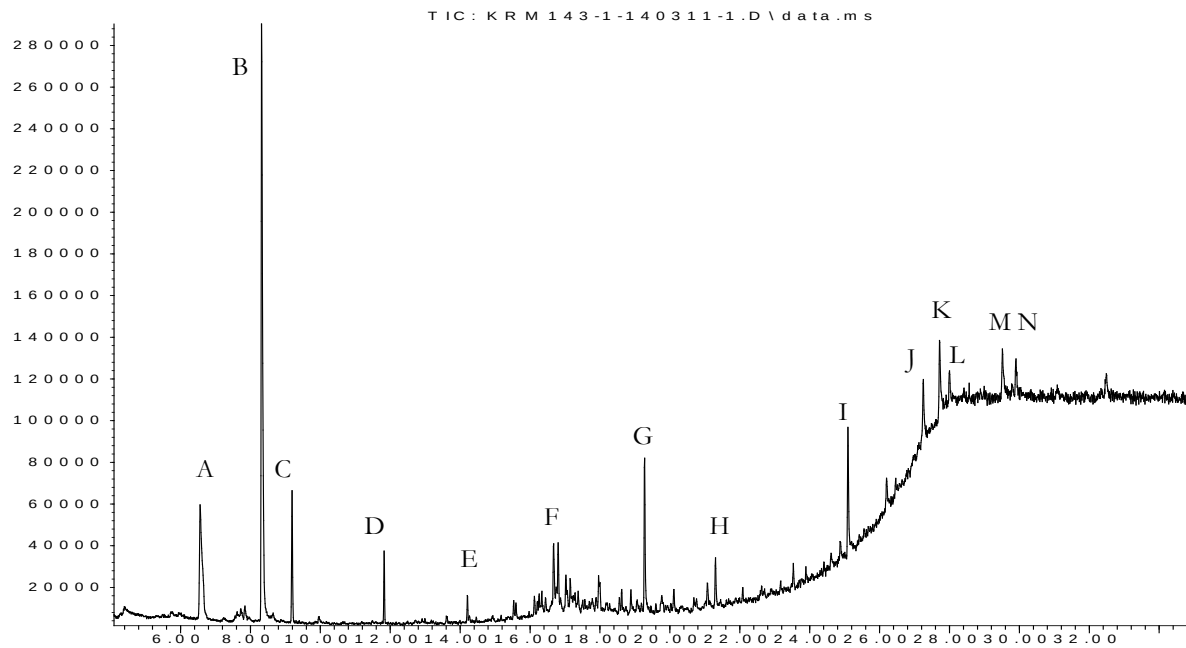
Phenolic Compound

Phthalate Plasticisers

Cross Reference:

Vessel: 144

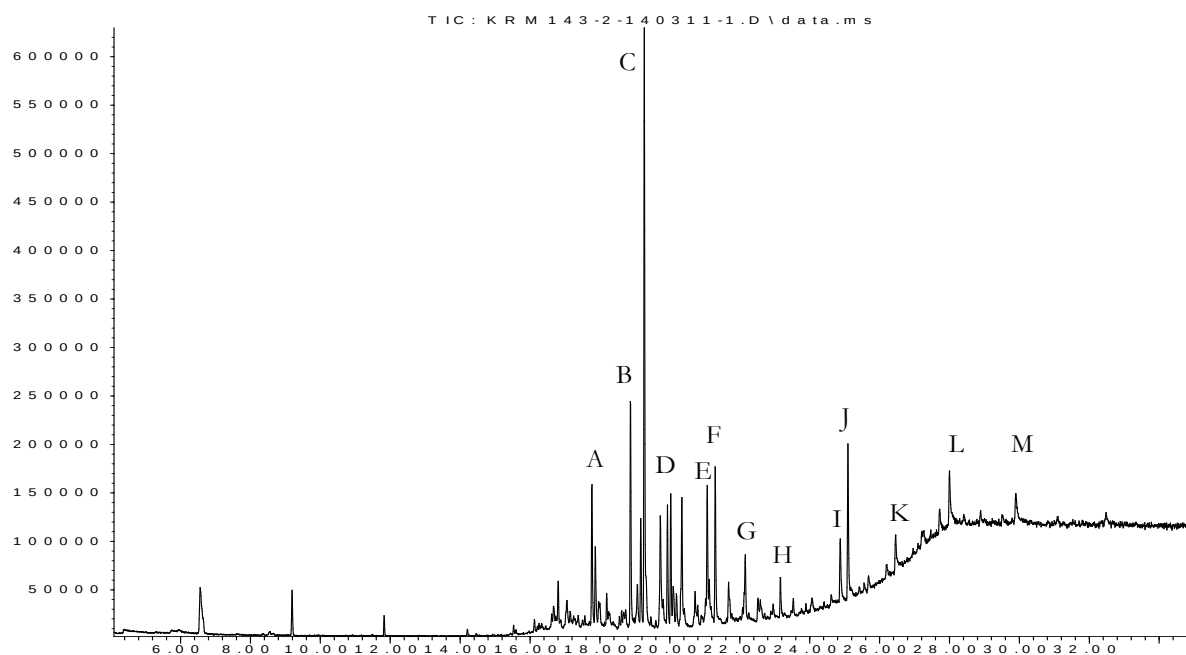
Abundance



SAMPLE KRM143-001: Chloroform/Methanol Extraction and FAME Derivatistation

A, C-E) siloxanes. B) Undecane F) phenolic compound G) Hexadecanoic Acid, Methyl Ester H) Octadecanoic Acid, Methyl Ester I) Bis(2-ethylhexyl)Phthalate. J) Squalene K) Eicosane L) Hexacosanoic Acid, Methyl Ester M) Heineicosane N) Octacosanoic Acid, Methyl Ester

Abundance



SAMPLE KRM143-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester. B) Pentadecanoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester D) Heptadecanoic Acid, Methyl Ester. E) Octadecenoic Acid, Ester. F) Octadecanoic Acid, Methyl Ester G) Nonadecanoic Acid, Methyl Ester H) Eicosanoic Acid, Methyl Ester I) Docosanoic Acid, Methyl Ester J) Bis(2-ethylhexyl) Phthalate K) Tetracosanoic Acid, Methyl Ester L) Hexacosanoic Acid, Methyl Ester M) Octacosanoic Acid, Methyl Ester.

KRM 144

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/050, pottery 1, lab 2. Cultic context (?), material from inside wall 10/10. Soil.

Sample Weight: 2.27911g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue: 0.00037g $\pm$ 0.00003g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00037g $\pm$ 0.00003g

Chloroform Methanol Extraction Yield: 0.16mg/g

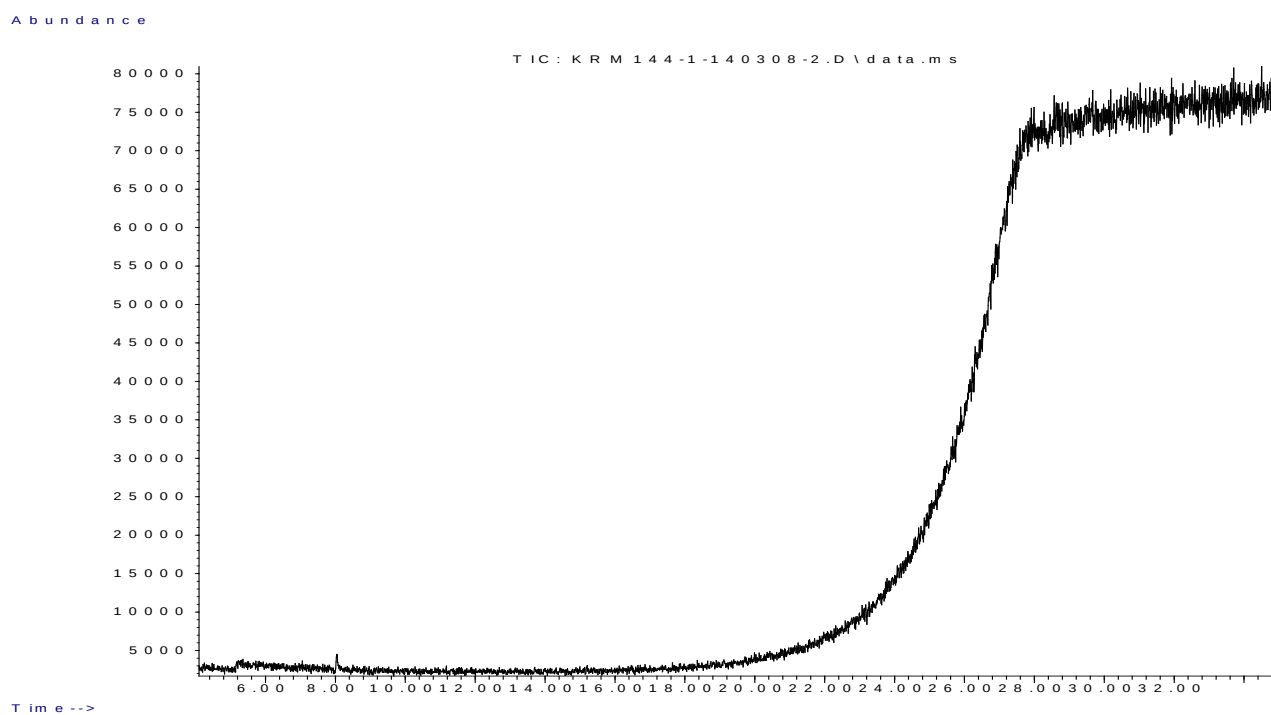
Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 0.16mg/g

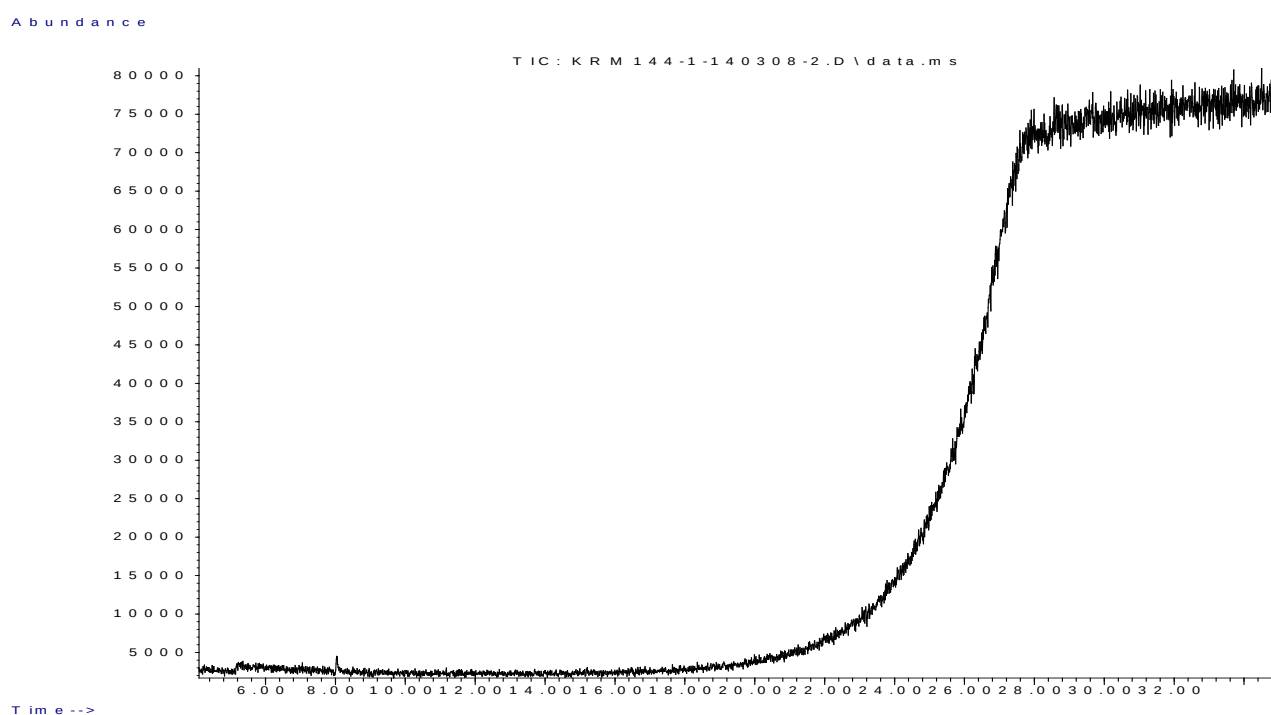
No peaks

Cross-Reference:

Vessel: 143



SAMPLE KRM144-001 Chloroform/Methanol Extraction and FAME Derivatistation



SAMPLE KRM144-002: Potassium Hydroxide Extraction and FAME Derivatisation

KRM 145

Megiddo, Israel. 2010. Iron Age. Area Q, locus 10/Q/033, pottery bucket 9, lab 1, vessel 1.
Cultic context. Soil from inside vessel.

Sample Weight: 4.80279g $\pm$ 0.00001g

Chloroform Methanol Extracted Residue:	0.00039g $\pm$ 0.00003g	(90.70%)
Potassium Hydroxide Extracted Residue:	0.00004g $\pm$ 0.00001g	(9.30%)
Total Extracted Residue:	0.00043g $\pm$ 0.00003g	

Chloroform Methanol Extraction Yield:	0.08mg/g
Potassium Hydroxide Extraction Yield:	0.01mg/g
Total Yield:	0.09mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Pentadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{14:0}, C_{15:0}, C_{16:0}, C_{17:0}, C_{18:0}, C_{20:0}, C_{22:0}

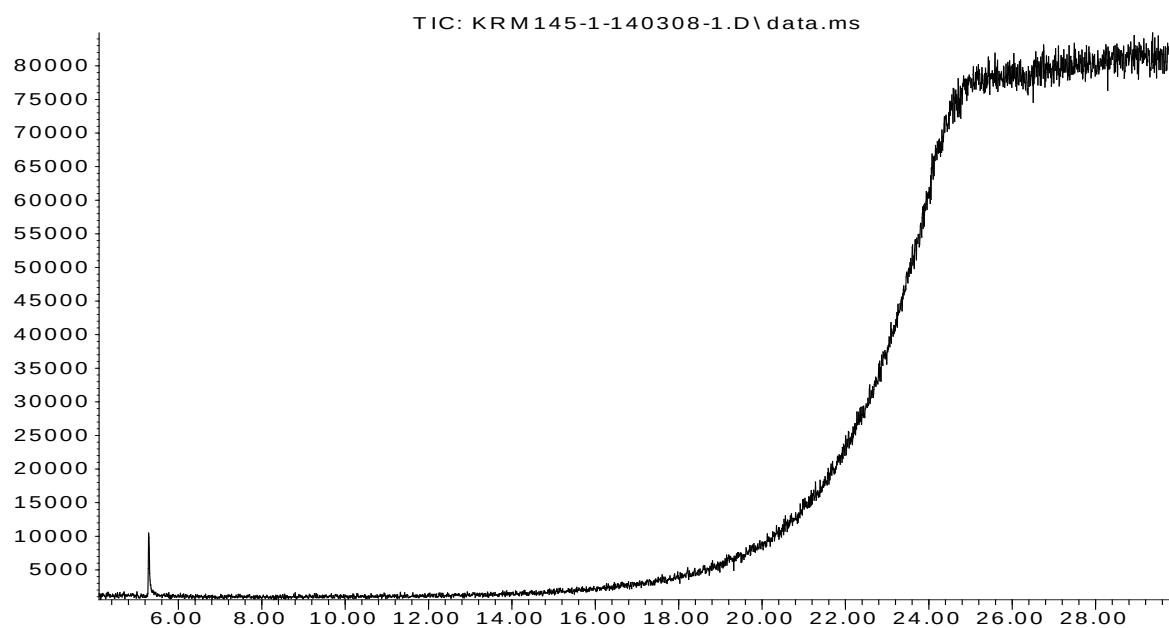
Octadecenoic Acid, Methyl Ester

Phthalate Plasticiser

Cross References:

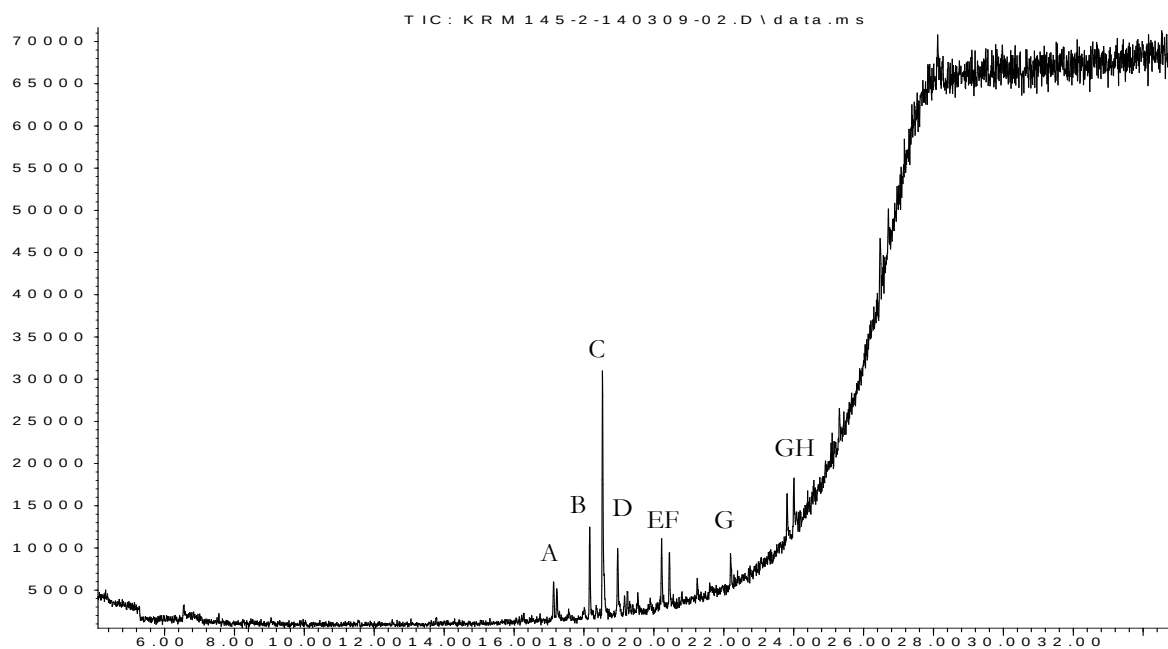
Vessel: 140, 141, 142

Abundance



SAMPLE KRM145-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane

Abundance



SAMPLE KRM145-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester. B) Pentadecanoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester. D) Heptadecanoic Acid, Methyl Ester E) Octadecenoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester G) Eicosanoic Acid, Methyl Ester H) Docosanoic Acid, Methyl Ester. I) Bis(2-ethylhexyl) Phthalate.

KRM 146

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6231, vessel 681, sample 114. Burial. Corrosion sample from interior of a copper alloy cauldron.

Sample Weight: 0.06010 g $\pm$ 0.00002 g

Chloroform Methanol Extracted Residue: 0.00029 g $\pm$ 0.00001 g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00029 g $\pm$ 0.00001 g

Chloroform Methanol Extraction Yield: 4.83 mg/g

Potassium Hydroxide Extraction Yield: insignificant

Total Yield: 4.83 mg/g

Major Peak:

Hexadecanoic Acid Ester

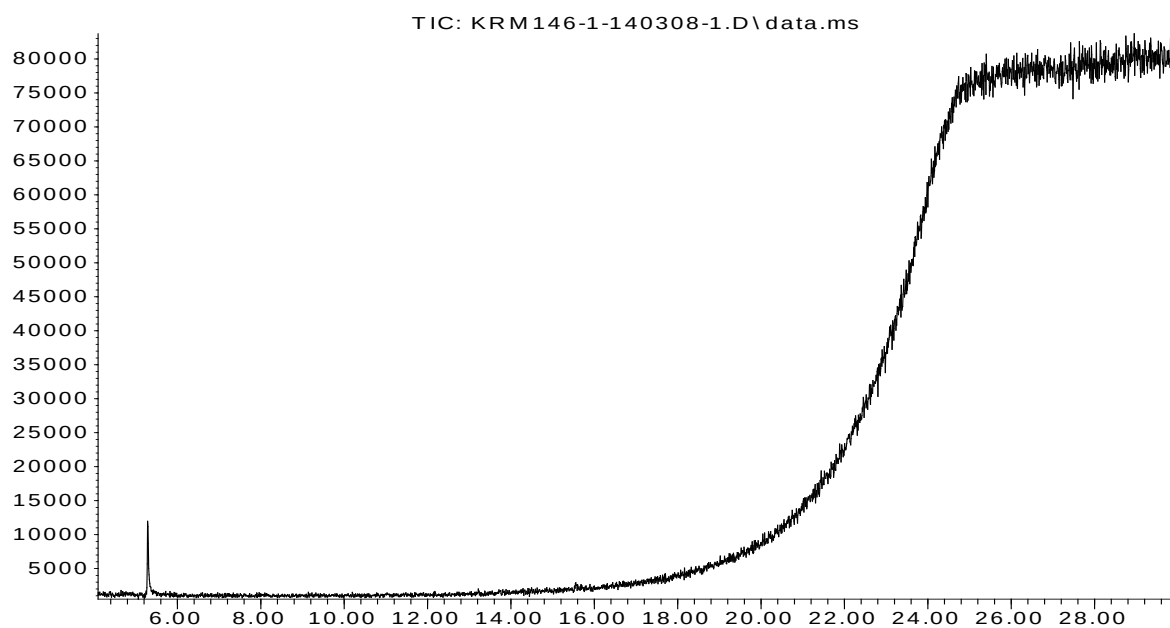
Conclusion:

Residue of insignificant weight (<0.00030 g). Hexadecanoic acid peak corresponds to contamination.

Cross Reference:

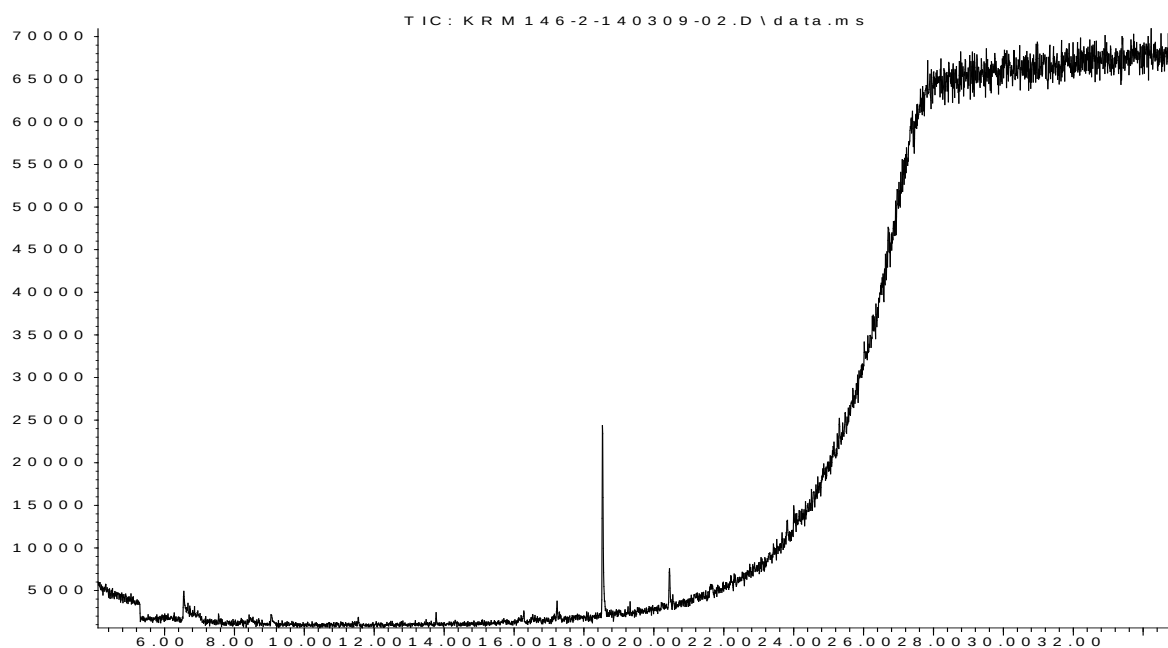
Vessel: 147 (exterior)

Abundance



SAMPLE KRM146-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane

Abundance



SAMPLE KRM146-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Hexadecanoic Acid Methyl Ester

KRM 147

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6231, vessel 681, sample 115. Burial. Corrosion and consolidant sample from the exterior of a copper alloy cauldron.

Sample Weight: 0.00741 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00021 g $\pm$ 0.00001 g	(85.00%)
Potassium Hydroxide Extracted Residue:	0.00004 g $\pm$ 0.00001 g	(16.00%)
Total Extracted Residue:	0.00025 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	28.34 mg/g
Potassium Hydroxide Extraction Yield:	5.45 mg/g
Total Yield:	33.74 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Bis(2-ethylhexyl)Phthalate

Other Peaks of Note:

Octadecenoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

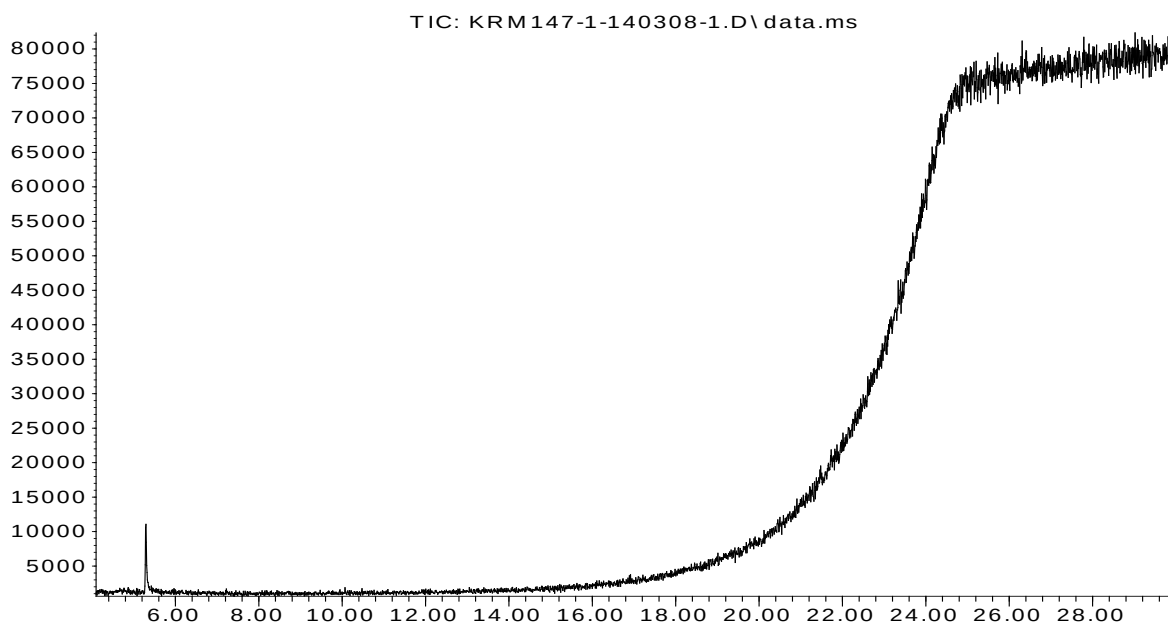
Conclusion:

Residue of insignificant weight (<0.00030 g). Lack of CDD suggests that all peaks are methodological contaminants.

Cross Reference:

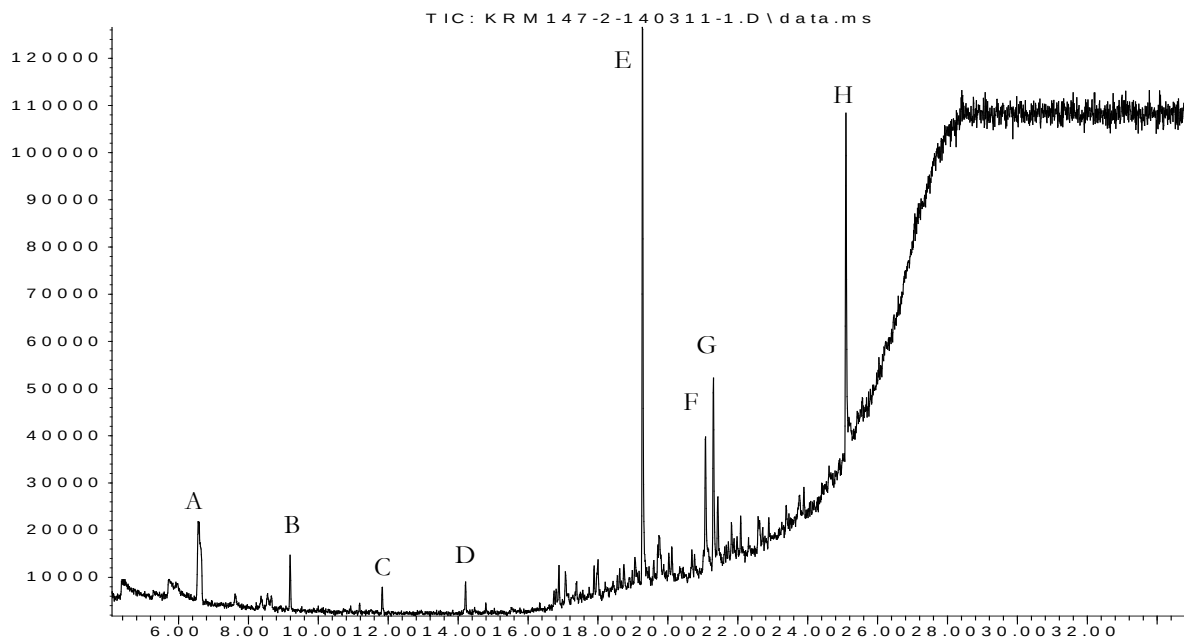
Vessel: 146 (interior)

Abundance



SAMPLE KRM147-001: Chloroform/Methanol Extraction and FAME Derivatistation

Abundance



SAMPLE KRM147-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A-D) siloxanes, E) Hexadecanoic Acid Methyl Ester, F) Octadecenoic Acid Methyl Ester. G) Octadecanoic Acid Methyl Ester. H) Bis(2-ethylhexyl)Phthalate

KRM 148

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 54. Burial. Corrosion sample from a copper alloy patera, inside, zone C.

Sample Weight: 0.03280 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.01366 g $\pm$ 0.00001 g	(99.35%)
Potassium Hydroxide Extracted Residue:	0.00009 g $\pm$ 0.00001 g	(0.65%)
Total Extracted Residue:	0.01375 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	416.46 mg/g
Potassium Hydroxide Extraction Yield:	2.83 mg/g
Total Yield:	419.21 mg/g

Major Peak:

Hexadecanoic Acid Methyl Ester

Secondary Peak:

Octadecanoic Acid Methyl Ester

Other Peaks of Note:

Alkanes: C_{20:0}, C_{24:0}, C_{25:0}, C_{26:0}, C_{27:0}, C_{28:0}, C_{29:0}, C_{30:0}, C_{31:0}

Plasticiser

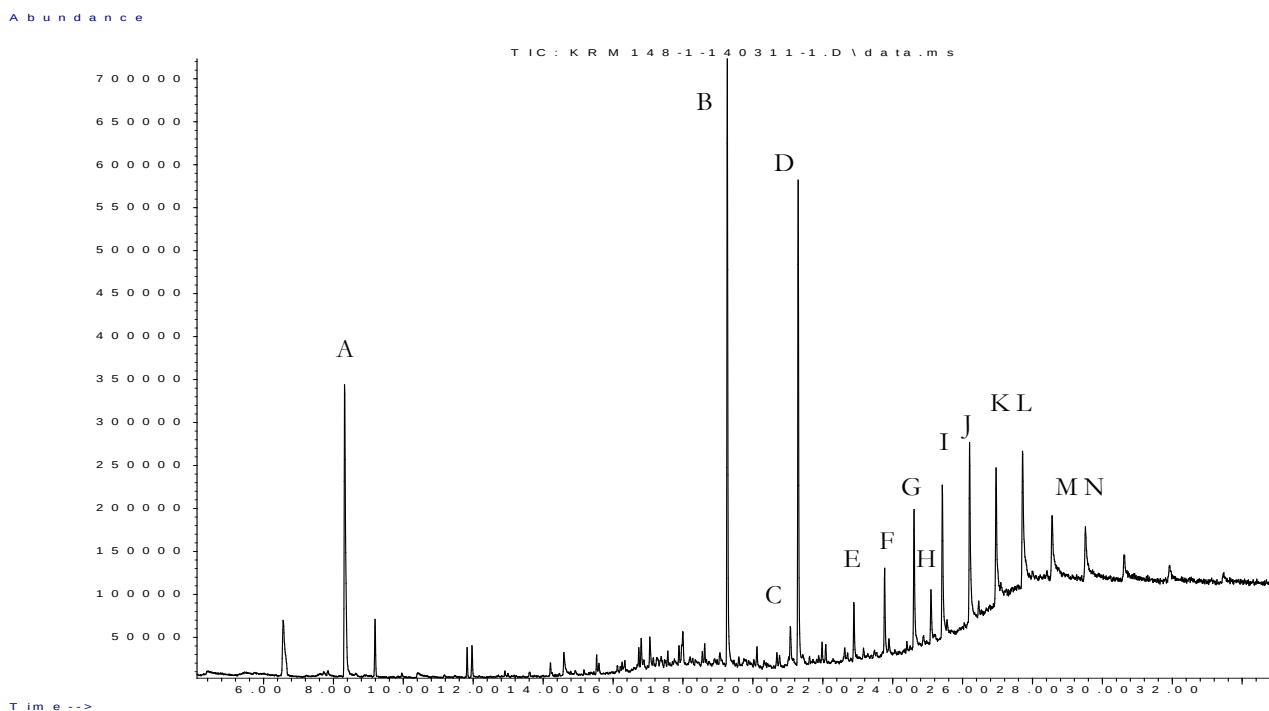
Cross-References:

Vessel (interior): 149

Vessel (exterior): 150, 151, 164, 165

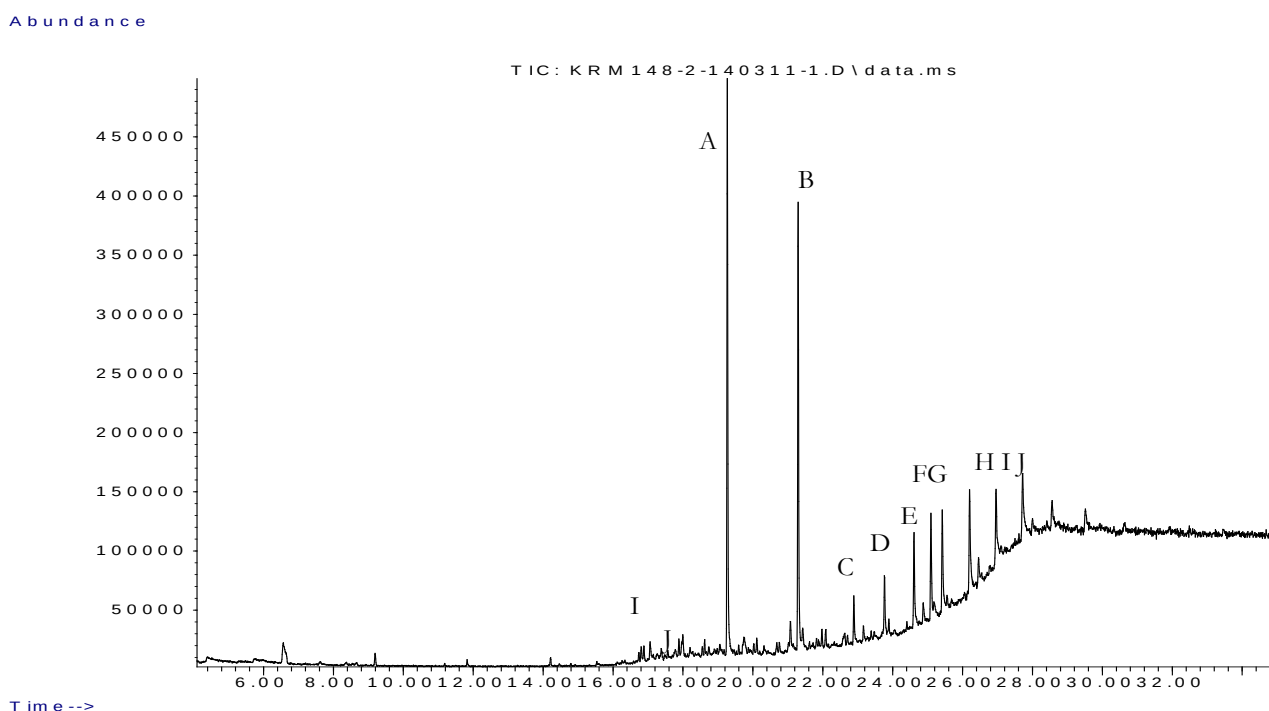
Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166



SAMPLE KRM148-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Hexadecanoic Acid, Methyl Ester. C) Octadecenoic Acid, Methyl Ester D) Octadecanoic Acid, Methyl Ester. E) Eicosane F) Tetracosane G) Pentacosane. H) Bis(2-ethylhexyl) Phthalate I) Hexacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane. N) Henatriacontane.



SAMPLE KRM148-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester. C) Eicosane D)Tetracosane E) Pentacosane. F) Bis(2-ethylhexyl) Phthalate G) Hexacosane H) Heptacosane I) Octacosane. J) Nonacosane

KRM 149

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 56. Burial. Corrosion sample from a copper alloy patera, inside, zone D.

Sample Weight: 0.05667 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00178 g $\pm$ 0.00001 g	(97.27%)
Potassium Hydroxide Extracted Residue:	0.00005 g $\pm$ 0.00001 g	(2.73%)
Total Extracted Residue:	0.00183 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	31.41 mg/g
Potassium Hydroxide Extraction Yield:	0.89 mg/g
Total Yield:	32.29 mg/g

Major Peak:

Hexadecenoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Long chain alkanes

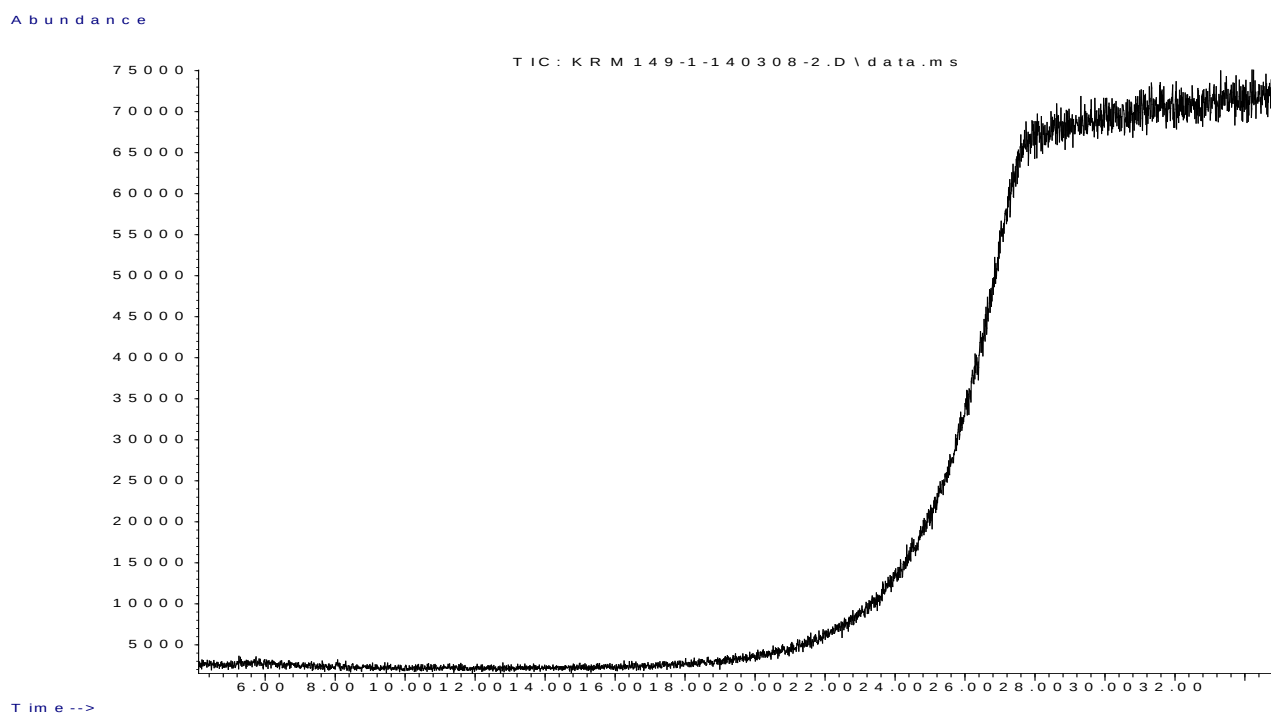
Cross-References:

Vessel (interior): 148

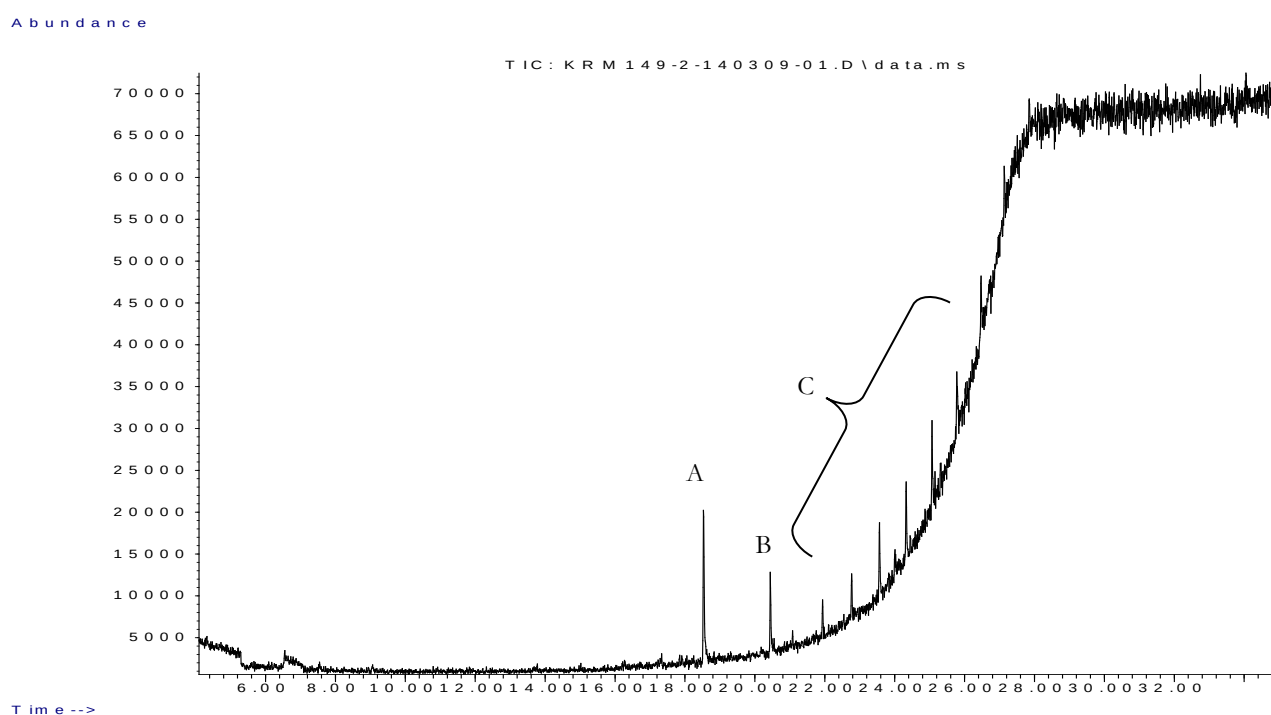
Vessel (exterior): 150, 151, 164, 165

Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166



SAMPLE KRM149-001: Chloroform/Methanol Extraction and FAME Derivatistation



SAMPLE KRM149-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester B) Octadecanoic Acid, Methyl ester C) long chain alkanes

KRM 150

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 46. Burial. Corrosion sample from a copper alloy patera, from the bottom of the handle touching the plate underneath.

Sample Weight: 0.00006 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue: 0.00020 g $\pm$ 0.00001 g

Potassium Hydroxide Extracted Residue: 0.00004 g $\pm$ 0.00001 g

Total Extracted Residue: 0.00024 g $\pm$ 0.00001 g

Conclusion:

Sample failure. All constituents are contamination - extracted weight is larger than sample weight.

Contamination: Undecane.

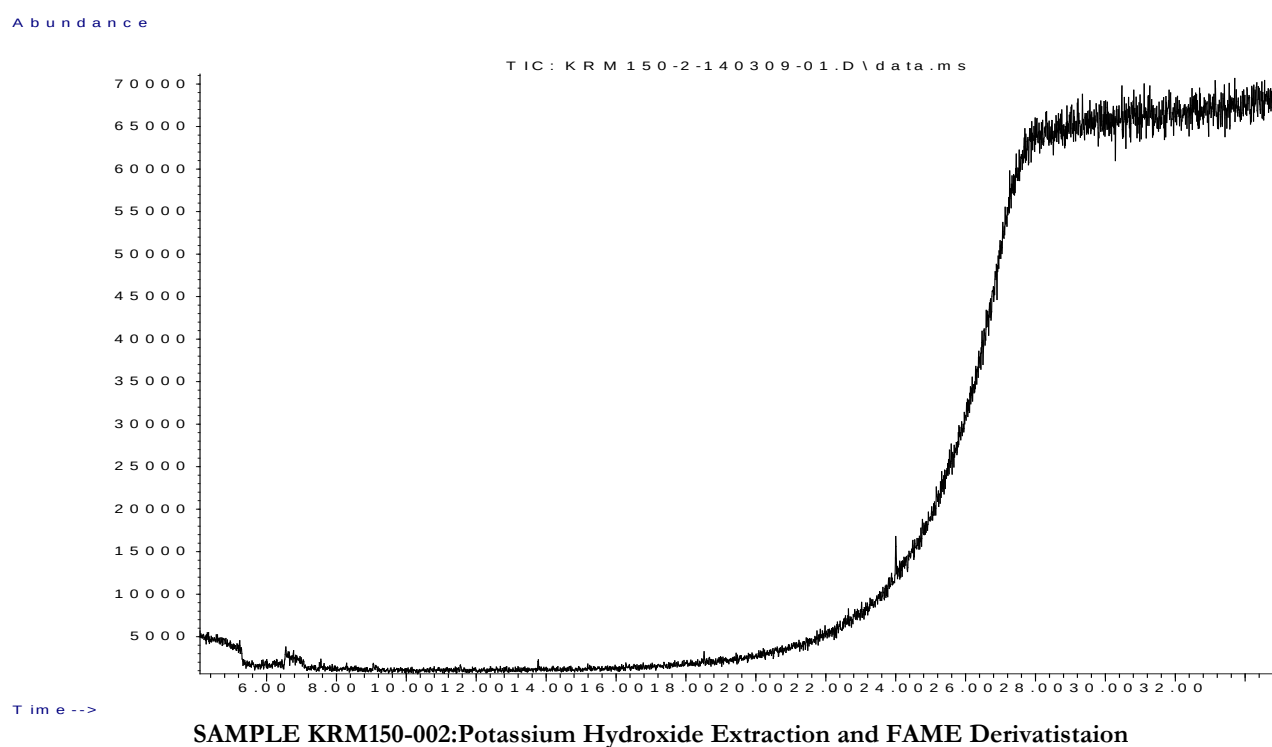
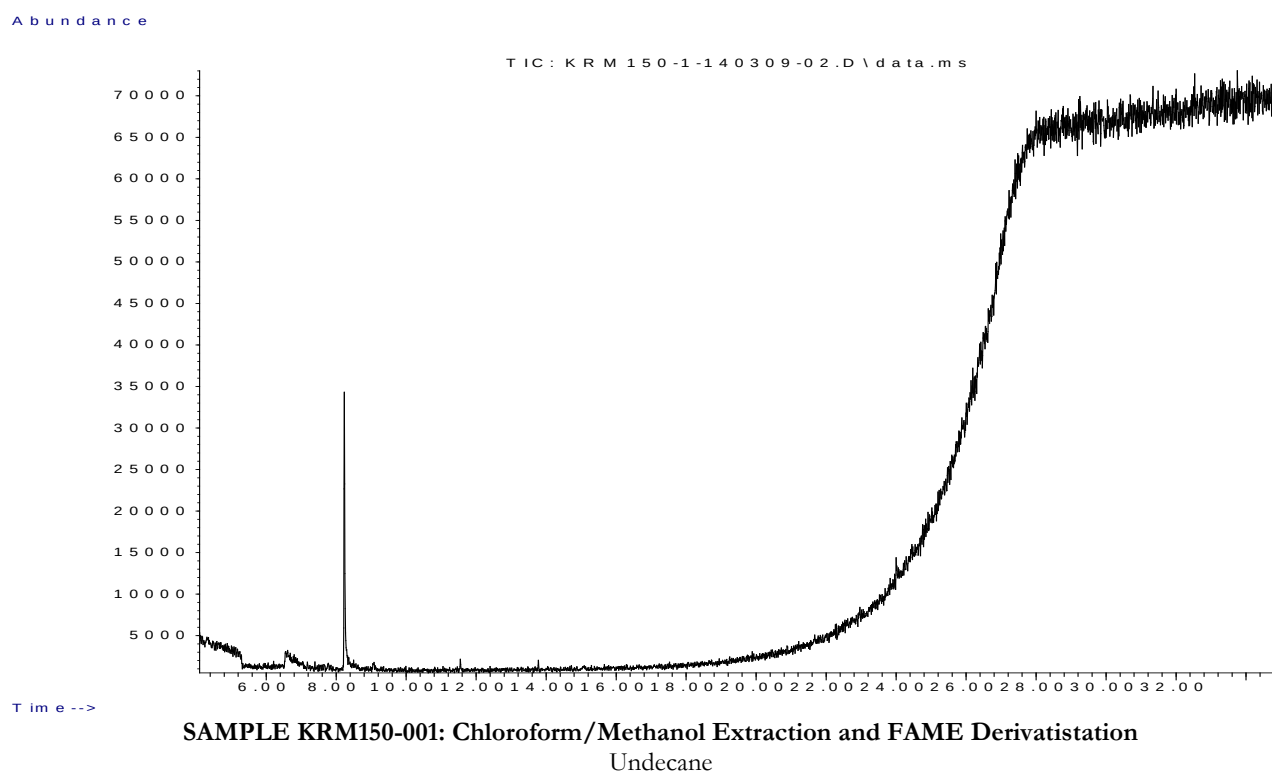
Cross-References:

Vessel (interior): 148, 149

Vessel (exterior): 151, 164, 165

Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166



KRM 151

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 44. Burial. Corrosion sample with brown deposit from a copper alloy patera, near the handle.

Sample Weight: 0.00486 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00062 g $\pm$ 0.00002 g	(21.60%)
Potassium Hydroxide Extracted Residue:	0.00225 g $\pm$ 0.00002 g	(78.40%)
Total Extracted Residue:	0.00287 g $\pm$ 0.00002 g	

Chloroform Methanol Extraction Yield:	127.57 mg/g
Potassium Hydroxide Extraction Yield:	475.68 mg/g
Total Yield:	590.53 mg/g

Undecane

Cross-References:

Vessel (interior): 148, 149

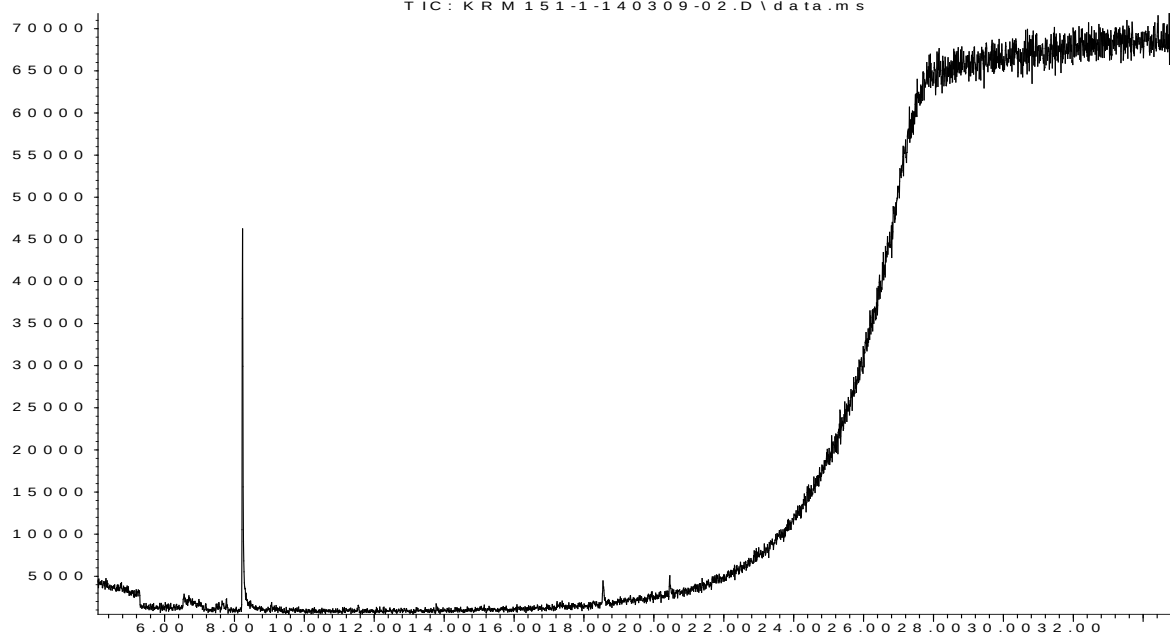
Vessel (exterior): 150, 164, 165

Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166

Abundance

TIC: KRM151-1-140309-02.D\data.ms

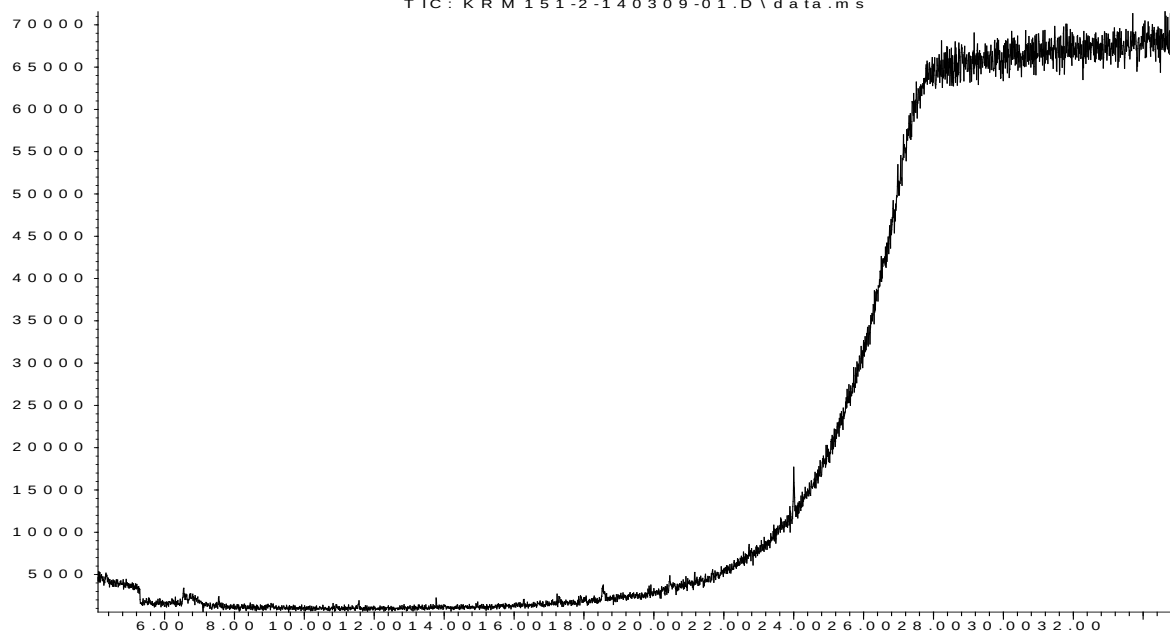


Time-->

SAMPLE KRM151-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane

Abundance

TIC: KRM151-2-140309-01.D\data.ms



Time-->

SAMPLE KRM151-002:Potassium Hydroxide Extraction and FAME Derivatistaion

KRM 152

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6262, vessel 689, sample 112. Soil and consolidant sample from the interior of a copper alloy patera, interface with ewer.

Sample Weight: 2.77373 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00205 g $\pm$ 0.00001 g	(54.96%)
Potassium Hydroxide Extracted Residue:	0.00168 g $\pm$ 0.00001 g	(45.04%)
Total Extracted Residue:	0.00373 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	0.74 mg/g
Potassium Hydroxide Extraction Yield:	0.64 mg/g
Total Yield:	1.34 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters:

C_{12:0}, C_{14:0}, C_{15:0}, C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{23:0}, C_{24:0}, C_{26:0}, C_{28:0}

Alkenoic Acids: C_{18:1}, C_{18:2}

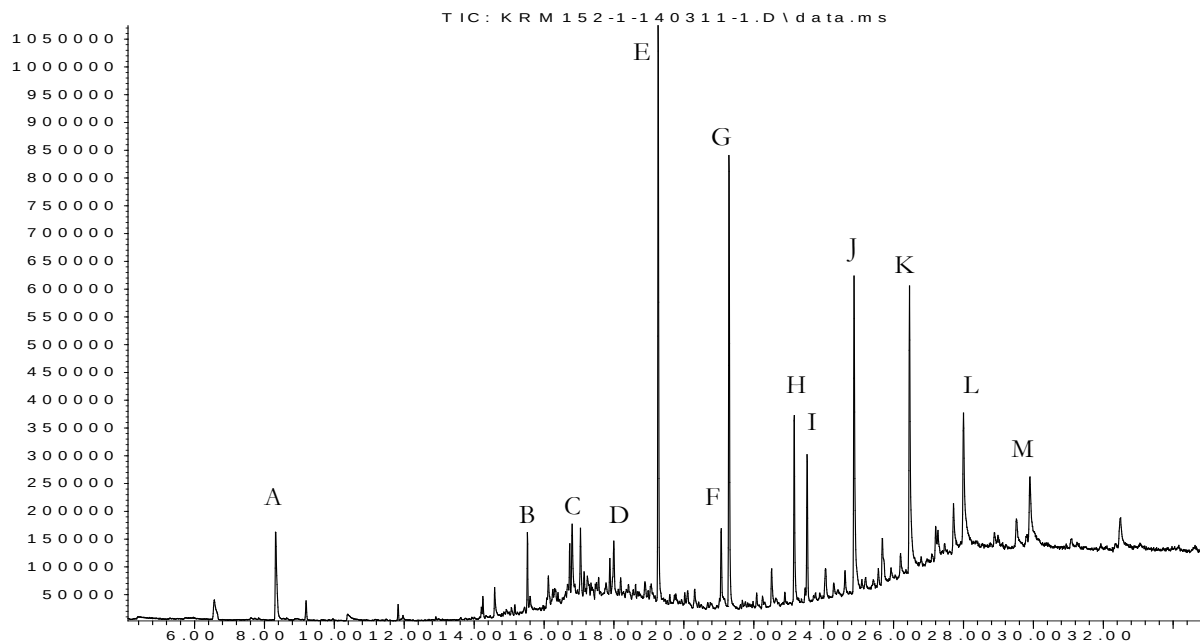
Diacids: C₁₆, C₁₈, C₂₀, C₂₂

Methyl Dehydroabietate – resin biomarker

Cross-References:

Vessel: 153 (interior), 154 (exterior)

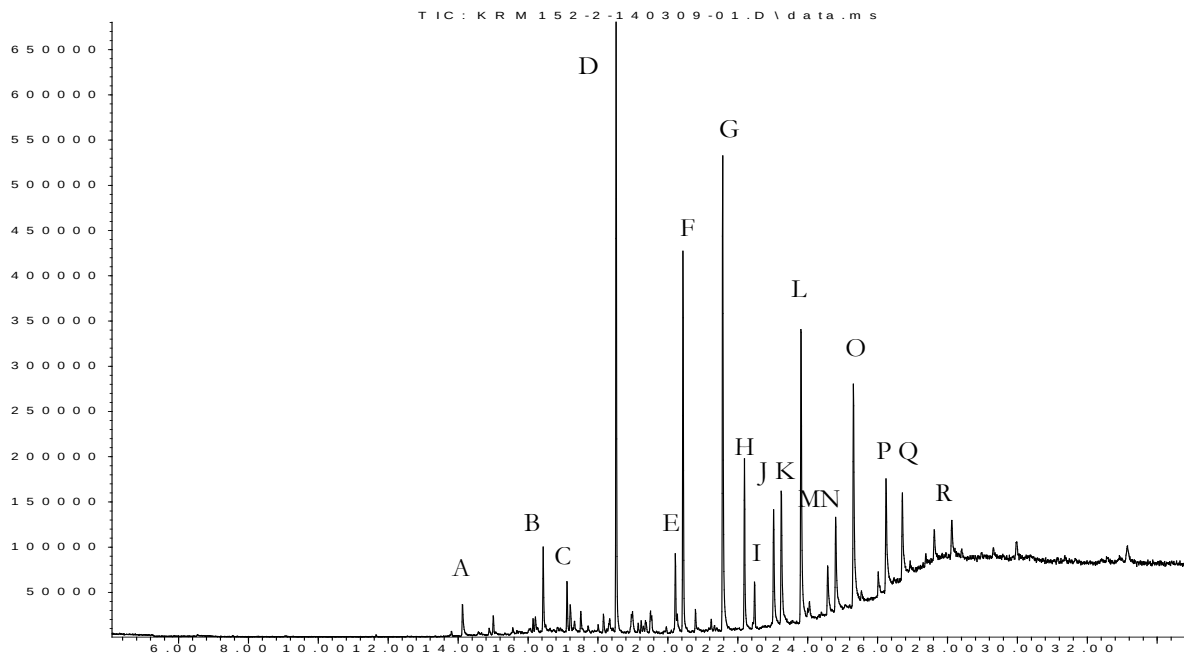
Abundance



SAMPLE KRM152-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Hexadecane C)Tetradecaonic Acid, Methyl Ester D)? E) Hexadecanoic Acid, Methyl Ester.
 F) Octadecenoic Acid, Methyl Ester G) Octadecanoic Acid, Methyl Ester. H) Eicosanoic Acid, Methyl Ester I)
 Methyl Dehydroabietate. J) Docosenoic Acid, Methyl Ester K) Tetracosanoic Acid, Methyl Ester L)
 Hexacosanoic Acid, Methyl Ester M) Octacosanoic Acid Methyl Ester.

Abundance



SAMPLE KRM152-002:Potassium Hydroxide Extraction and FAME Derivatistaion

A) Dodecanoic Acid, Methyl Ester B) Tetradecanoic Acid, Methyl Ester C)Pentadecanoic Acid, Methyl Ester.
 D) Hexadecanoic Acid, Methyl Ester. E) Octadecenoic Acid, Methyl Ester F) Octadecanoic Acid, Methyl Ester.
 G)Hexadecanedioic Acid, Dimethyl Ester (?) H) Eicosanoic Acid, Methyl Ester I) Methyl Dehydroabietate. J)
 Octadecadienoic acid, Methyl Ester K) Octadecanedioic Acid, Dimethyl Ester L) Docosenoic Acid, Methyl
 Ester M) Tricosanoic Acid, Methyl Ester N)Eicosandioic Acid, Dimethyl Ester O) Tetracosanoic Acid, Methyl
 Ester P) Docosanedioic Acid, Dimethyl Ester Q) Hexacosanoic Acid, Methyl Ester R) Octacosanoic Acid
 Methyl Ester.

KRM 153

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6262, vessel 689, sample 111. Burial. Corrosion and soil sample from a copper alloy patera, inside.

Sample Weight: 0.53361 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00923 g $\pm$ 0.00001 g	(99.03%)
Potassium Hydroxide Extracted Residue:	0.00009 g $\pm$ 0.00001 g	(0.97%)
Total Extracted Residue:	0.00932 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	17.30 mg/g
Potassium Hydroxide Extraction Yield:	0.17 mg/g
Total Yield:	17.47 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters:

C_{14:0}, C_{15:0}, C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{24:0}

Alkenoic Acid Methyl Esters: C_{18:1}

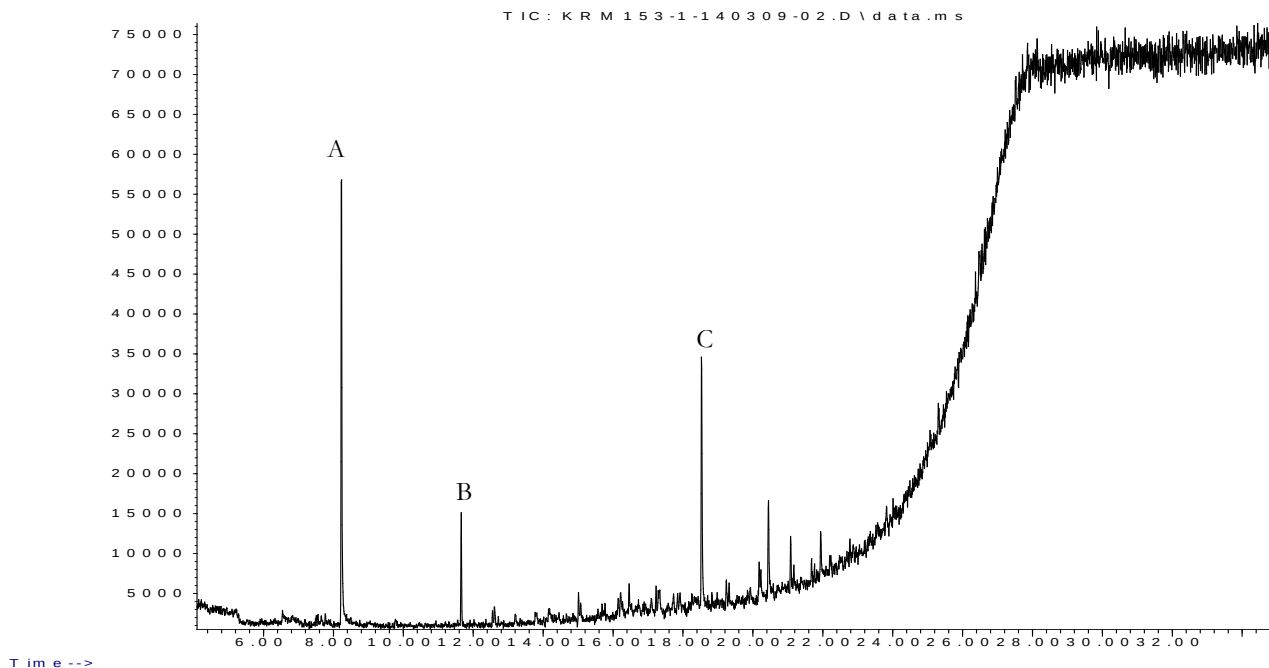
Diacids: C₁₆

Consolidant: Cyclododecane

Cross-References:

Vessel: 152 (interior), 154 (exterior)

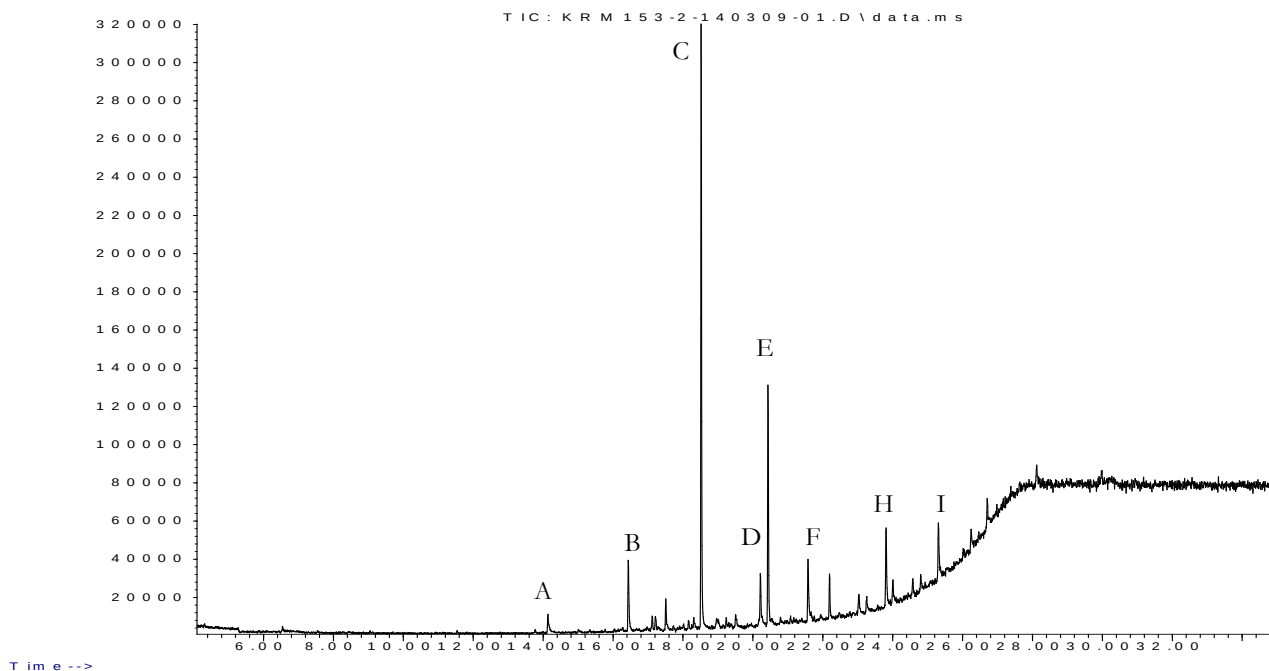
Abundance



SAMPLE KRM153-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Cyclododecane. C) Hexadecanoic Acid, Methyl Ester

Abundance



SAMPLE KRM153-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester. B) Pentadecanoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester. D) Octadecenoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester F) Hexadecanedioic Acid, Dimethyl Ester G) Eicosanoic Acid, Methyl Ester H) Docosanoic Acid, Methyl Ester I) Tetracosanoic Acid, Methyl Ester

KRM 154

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6262, vessel 689, sample 113. Burial. Corrosion sample from a copper alloy patera, outside.

Sample Weight: 0.00416 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00096 g $\pm$ 0.00001 g	(81.36%)
Potassium Hydroxide Extracted Residue:	0.00022 g $\pm$ 0.00001 g	(18.64%)
Total Extracted Residue:	0.00118 g $\pm$ 0.00001 g	

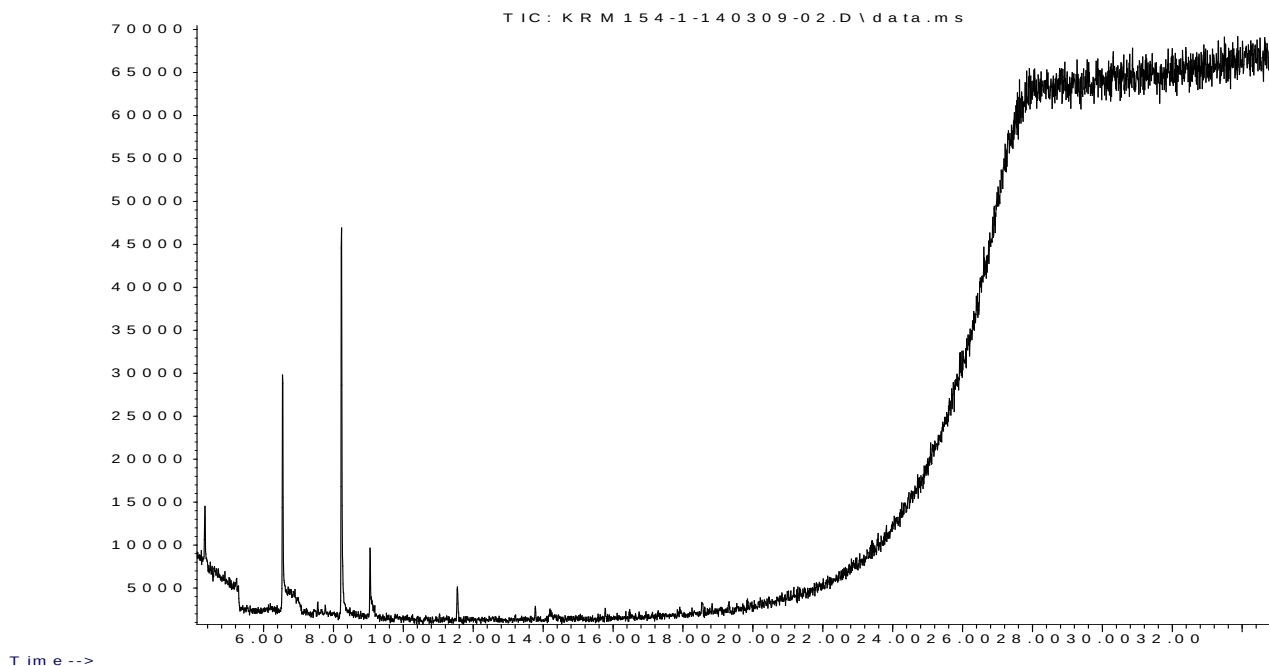
Chloroform Methanol Extraction Yield:	230.77 mg/g
Potassium Hydroxide Extraction Yield:	52.88 mg/g
Total Yield:	283.65 mg/g

Siloxanes and plasticisers

Cross-References:

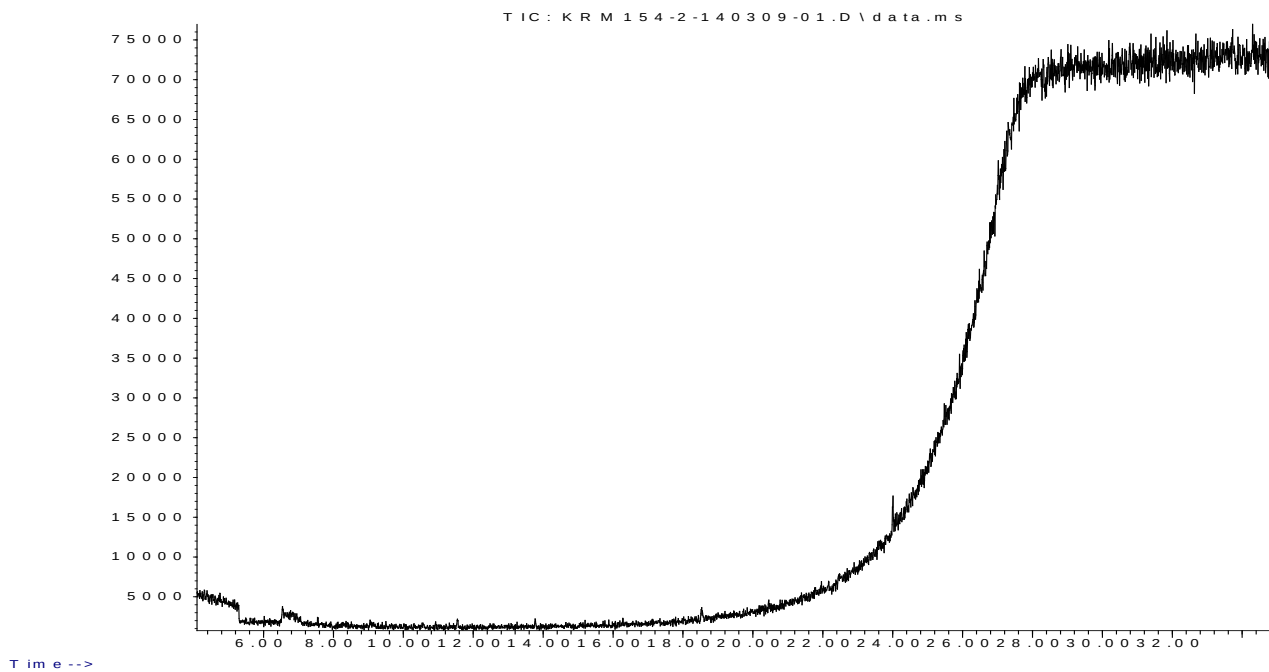
Vessel: 152, 153 (interior)

Abundance



SAMPLE KRM154-001: Chloroform/Methanol Extraction and FAME Derivatistation
Siloxanes

Abundance



SAMPLE KRM154-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Phthalate Plasticiser

KRM 155

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6663, vessel 1550, sample 116. Burial. Soil from copper alloy ewer, inside.

Sample Weight: 0.15555 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00049 g $\pm$ 0.00001 g	(87.50%)
Potassium Hydroxide Extracted Residue:	0.00007 g $\pm$ 0.00001 g	(12.50%)
Total Extracted Residue:	0.00065 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	3.15 mg/g
Potassium Hydroxide Extraction Yield:	0.45 mg/g
Total Yield:	3.60 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{24:0}, C_{26:0}

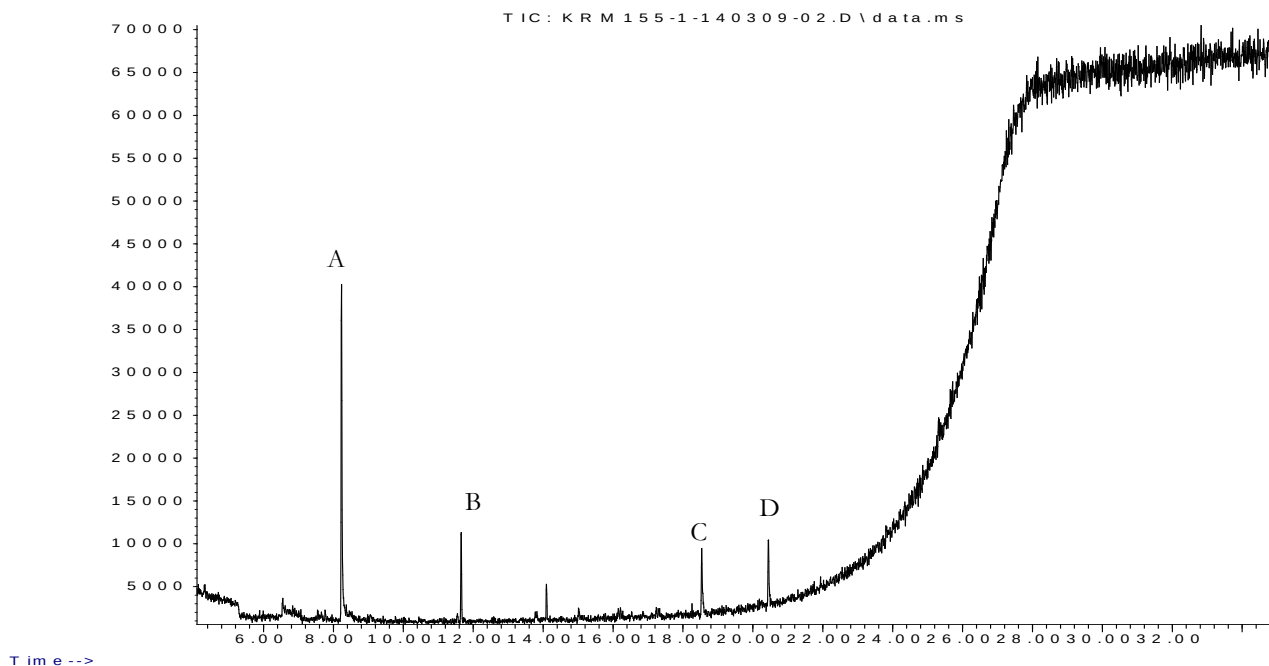
Consolidant:

Cyclododecane.

Cross-Reference:

Vessel (Exterior): 156

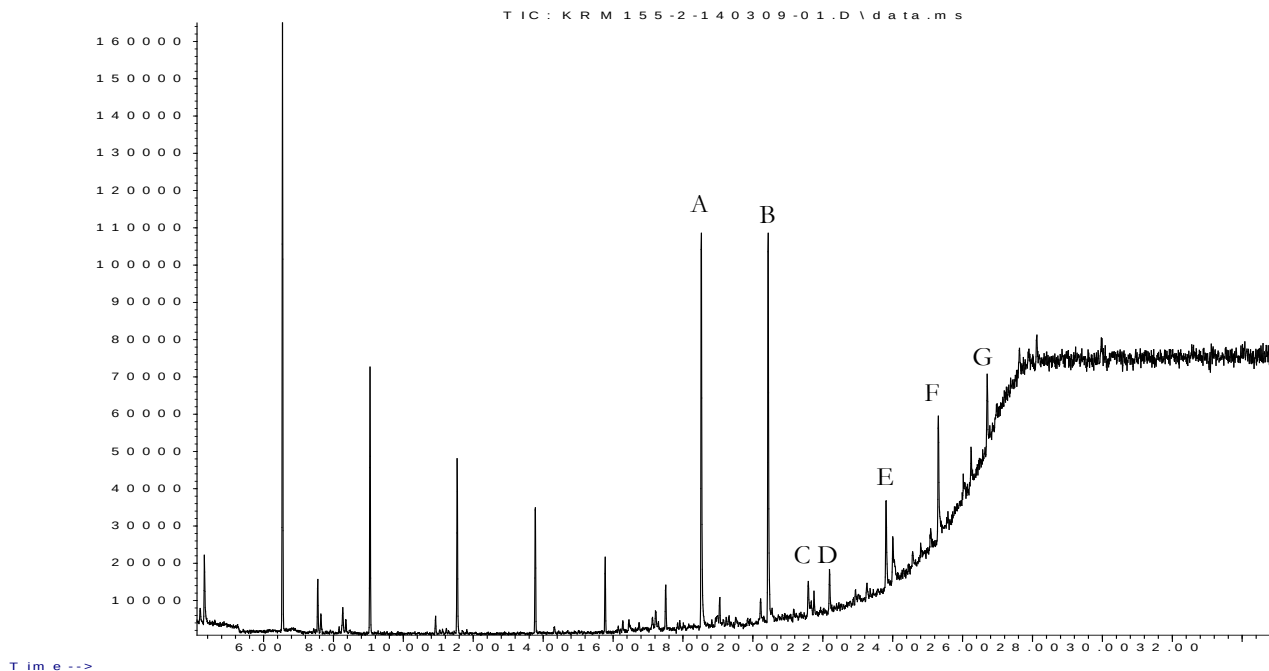
Abundance



SAMPLE KRM155-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Cyclododecane C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid Methyl Ester

Abundance



SAMPLE KRM155-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester, B) Octadecanoic Acid, Methyl Ester. C) Hexadecanedioic Acid, Dimethyl Ester. D) Eicosanoic Acid, Methyl Ester E) Docosanoic Acid, Methyl Ester F) Tetracosanoic Acid, Methyl Ester G) Hexacosanoic Acid, Methyl Ester. All others siloxanes

KRM 156

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6663, vessel 1550, sample 117. Corrosion sample from copper alloy ewer, outside.

Sample Weight: 0.03934 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00008 g $\pm$ 0.00001 g	(72.27%)
Potassium Hydroxide Extracted Residue:	0.00003 g $\pm$ 0.00001 g	(27.27%)
Total Extracted Residue:	0.00011 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	2.03 mg/g
Potassium Hydroxide Extraction Yield:	0.79 mg/g
Total Yield:	2.80 mg/g

Major Peak:

Undecane

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

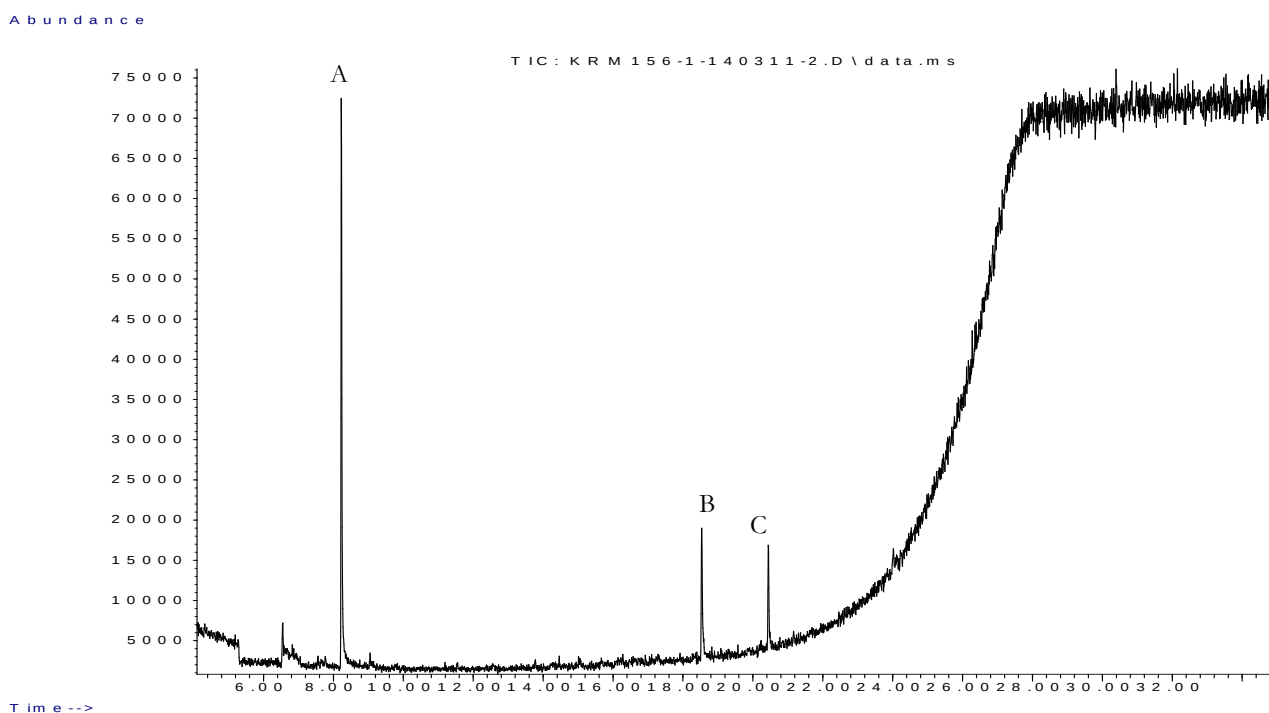
Octadecanoic Acid, Methyl Ester

Conclusion:

Sample insignificant, <0.00030g. All contaminants.

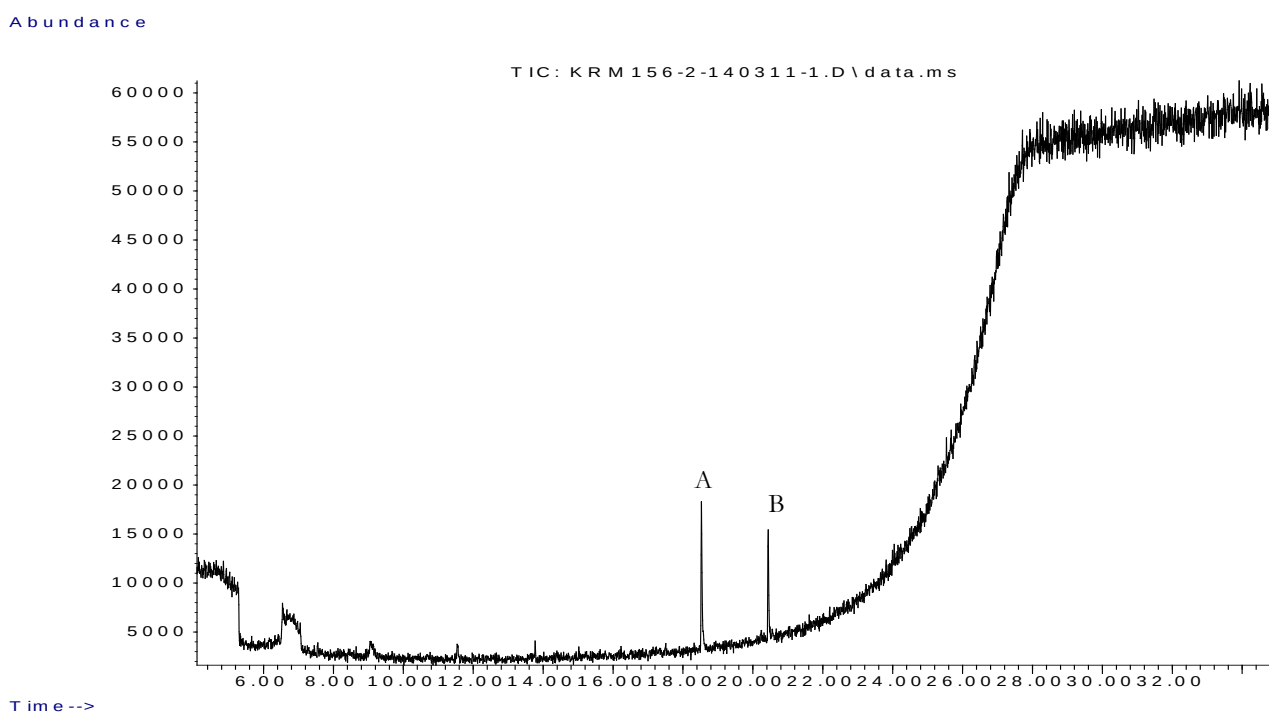
Cross-Reference:

Vessel (interior): 155



SAMPLE KRM156-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Hexadecanoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester



SAMPLE KRM156-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester.

KRM 157

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6232, vessel 683, sample 110. Corrosion sample from copper alloy ewer, outside surface near brass base.

Sample Weight: 0.01835 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00015 g $\pm$ 0.00001 g	(3.94%)
Potassium Hydroxide Extracted Residue:	0.00366 g $\pm$ 0.00002 g	(96.06%)
Total Extracted Residue:	0.00381 g $\pm$ 0.00002 g	

Chloroform Methanol Extraction Yield:	8.17 mg/g
Potassium Hydroxide Extraction Yield:	204.01 mg/g
Total Yield:	207.63 mg/g

Major Peak:

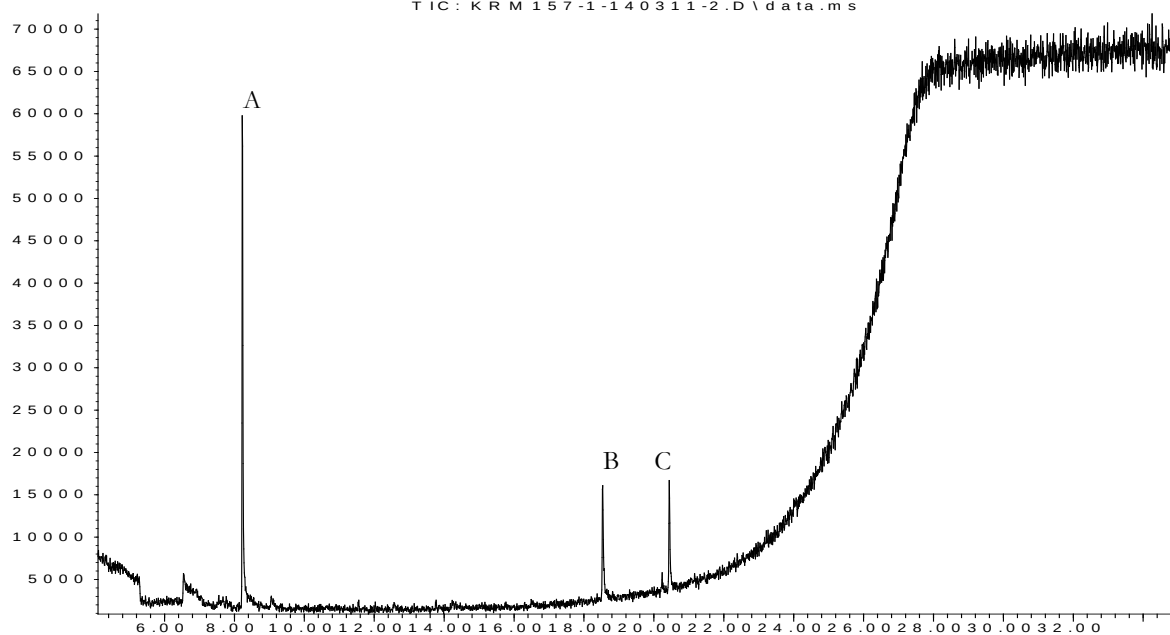
Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Abundance

TIC: KRM157-1-140311-2.D\data.ms



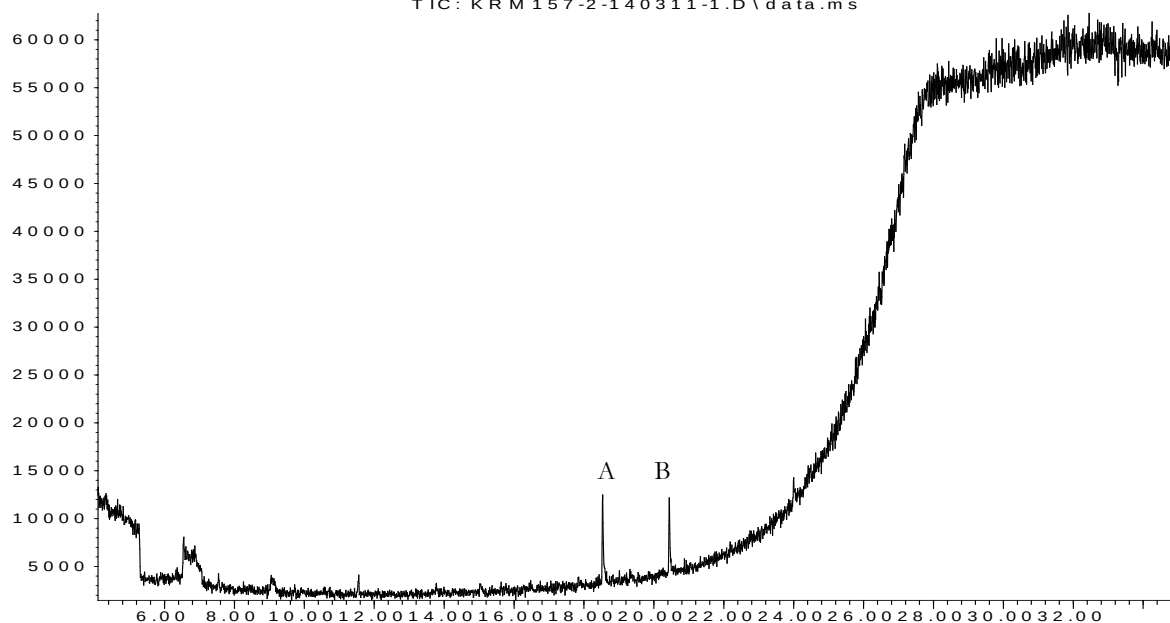
Time -->

SAMPLE KRM157-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Hexadecanoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester

Abundance

TIC: KRM157-2-140311-1.D\data.ms



Time -->

SAMPLE KRM157-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester, B) Octadecanoic Acid, Methyl Ester

KRM 158

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 57. Burial. Soil sample from inside a copper ewer, zone D.

Sample Weight: 0.53938 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00534 g $\pm$ 0.00002 g	(92.39%)
Potassium Hydroxide Extracted Residue:	0.00044 g $\pm$ 0.00001 g	(7.61%)
Total Extracted Residue:	0.00578 g $\pm$ 0.00002 g	

Chloroform Methanol Extraction Yield:	9.90 mg/g
Potassium Hydroxide Extraction Yield:	0.82 mg/g
Total Yield:	10.72 mg/g

Major Peak:

Heptacosane

Secondary Peak:

Octacosane

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{12:0}, C_{14:0}, C_{16:0}, C_{18:0}

Alkanes: C₁₉, C₂₀, C₂₄, C₂₅, C₂₆, C₂₇, C₂₈, C₂₉, C₃₀, C₃₁, C₃₄, C₃₆

Consolidant:

Cyclododecane

Cross-References:

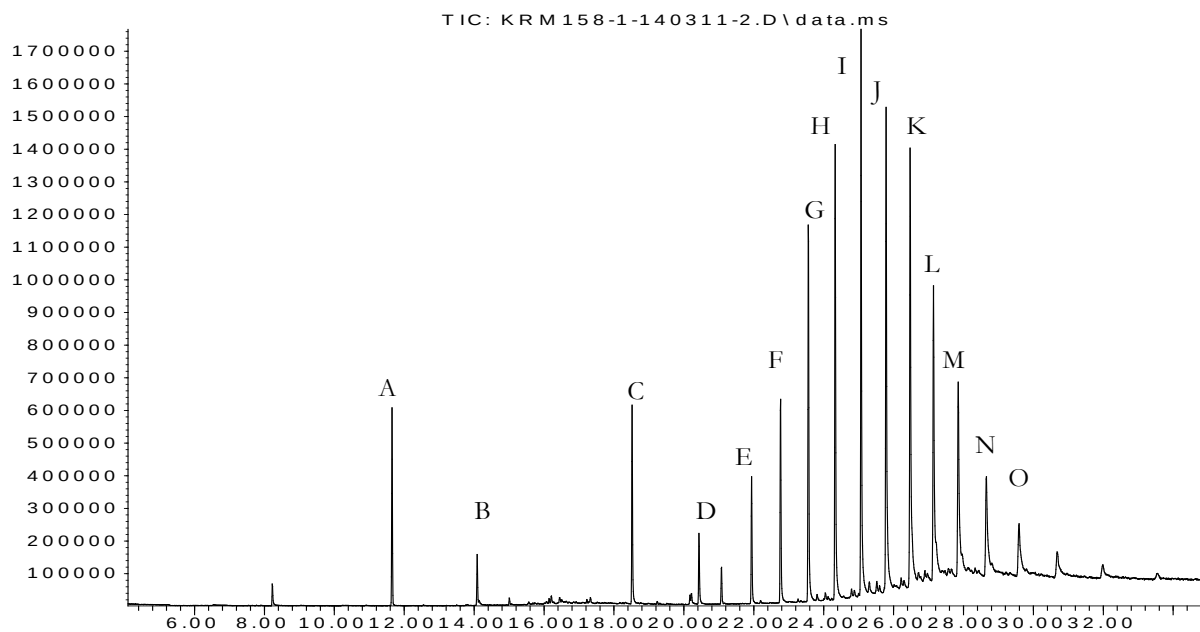
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

Soil (interior): 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166

Abundance

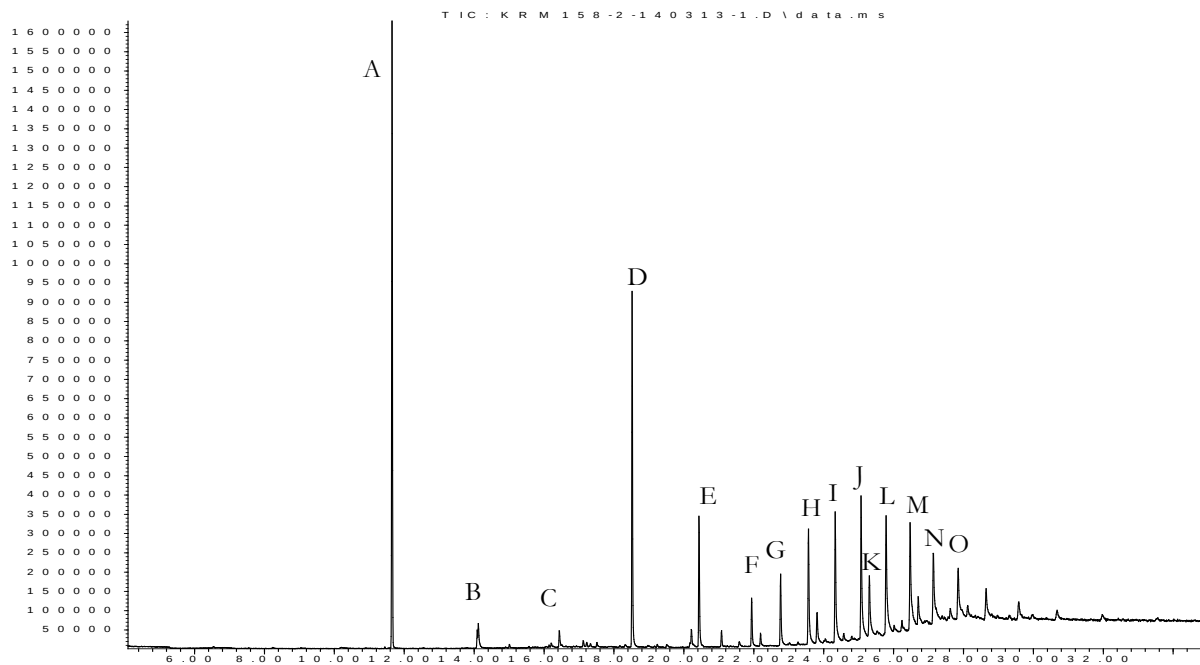


Time-->

SAMPLE KRM158-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Cyclododecane. B) cycododecanone. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Nonadecane. F) Tetracosane G) Pentacosane. H)Hexacosane I) Heptacosane J) Octacosane. K) Nonacosane. L) Triacontane. M) Henatriacontane. N) Tetratracontane O)Hexatriacontane

Abundance



Time-->

SAMPLE KRM158-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Cyclododecane B) Dodecanoic Acid, Methyl Ester C) Tetradecanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester. F) Eicosane G) Tetracosane H) Pentacosane. I) Hexacosane J) Heptacosane K) Phthalate plasticiser L) Octacosane. M) Nonacosane. L) Triacontane. M) Henatriacontane.

KRM 159

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 52. Burial. Soil from inside a copper alloy patera, zone B.

Sample Weight: 2.44891 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00866 g $\pm$ 0.00002 g	(48.11%)
Potassium Hydroxide Extracted Residue:	0.00934 g $\pm$ 0.00002 g	(51.89%)
Total Extracted Residue:	0.01800 g $\pm$ 0.00003 g	

Chloroform Methanol Extraction Yield:	3.54 mg/g
Potassium Hydroxide Extraction Yield:	3.81 mg/g
Total Yield:	7.35 mg/g

Major Peak:

Heptacosane

Secondary Peak:

Octacosane

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}

Alkanes: C₂₀, C₂₁, C₂₄, C₂₅, C₂₆, C₂₇, C₂₈, C₂₉, C₃₀, C₃₁, C₃₂, C₃₄, C₃₆

Consolidant: Cyclododecane

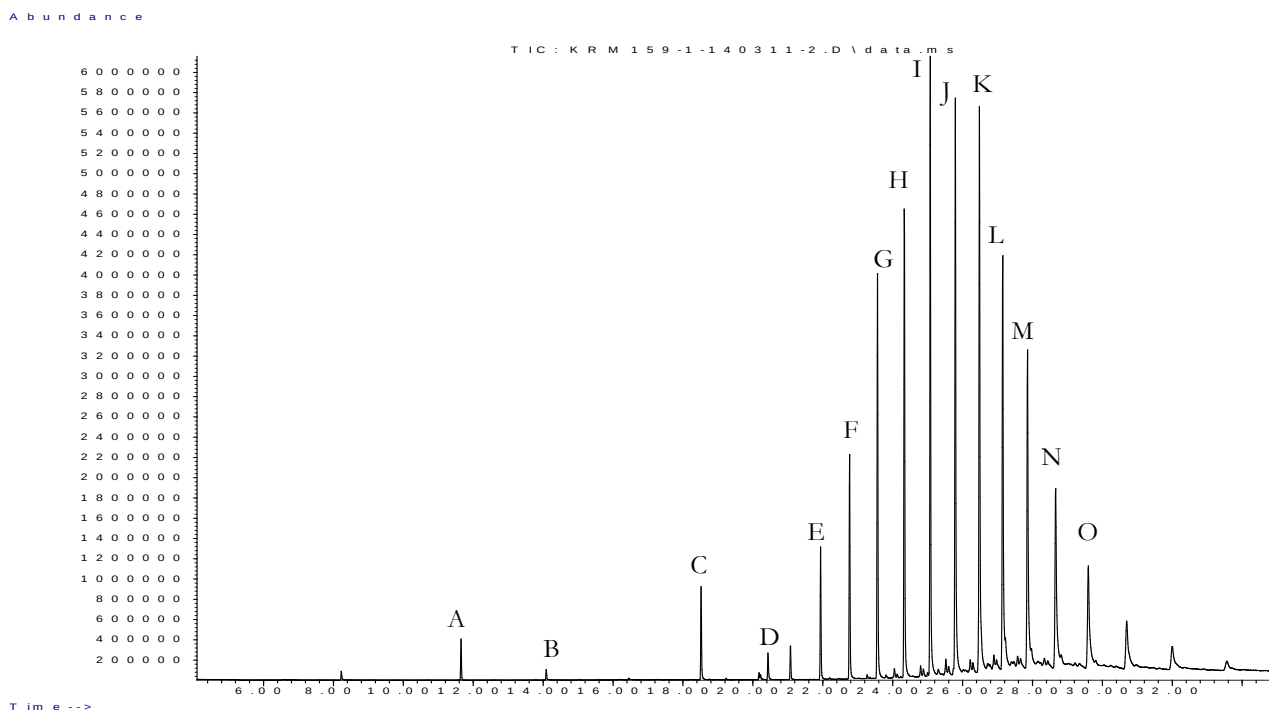
Cross-References:

Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

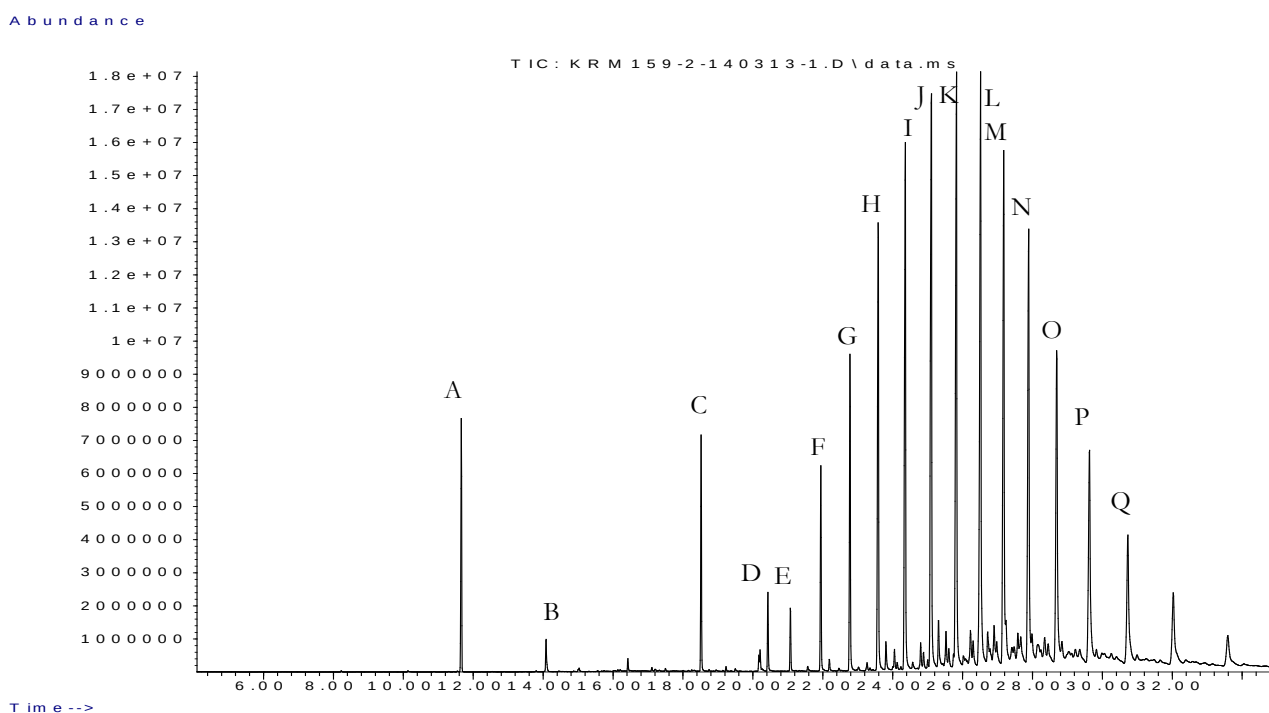
Soil (interior): 158, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166



SAMPLE KRM159-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Cyclododecane. B) Cyclododecanone. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Eicosane. F) Tetracosane G) Pentacosane. H)Hexacosane I) Heptacosane J) Octacosane. K) Nonacosane. L) Triacontane. M) Henatriacontane. N) Tetratracontane O)Hexatriacontane



SAMPLE KRM159-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Cyclododecane. B) Cyclododecanone. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Eicosane. F) Heneicosane. G) Tetracosane H) Pentacosane. I)Hexacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane. M) Henatriacontane. O) Dotriacontane. P) Tetratracontane Q) Hexatriacontane

KRM 160

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 55. Burial. Soil sample from inside a copper alloy patera, zone C.

Sample Weight: 0.36184 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00683 g $\pm$ 0.00001 g	(96.33%)
Potassium Hydroxide Extracted Residue:	0.00026 g $\pm$ 0.00001 g	(3.67%)
Total Extracted Residue:	0.00709 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	18.88 mg/g
Potassium Hydroxide Extraction Yield:	0.72 mg/g
Total Yield:	19.59 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{12:0}, C_{14:0}, C_{16:0}, C_{18:0}

Alkanes: C₂₀, C₂₄, C₂₅, C₂₆, C₂₇, C₂₈, C₂₉, C₃₀, C₃₁, C₃₄, C₃₆

Consolidant:

Cyclododecane

Cross-References:

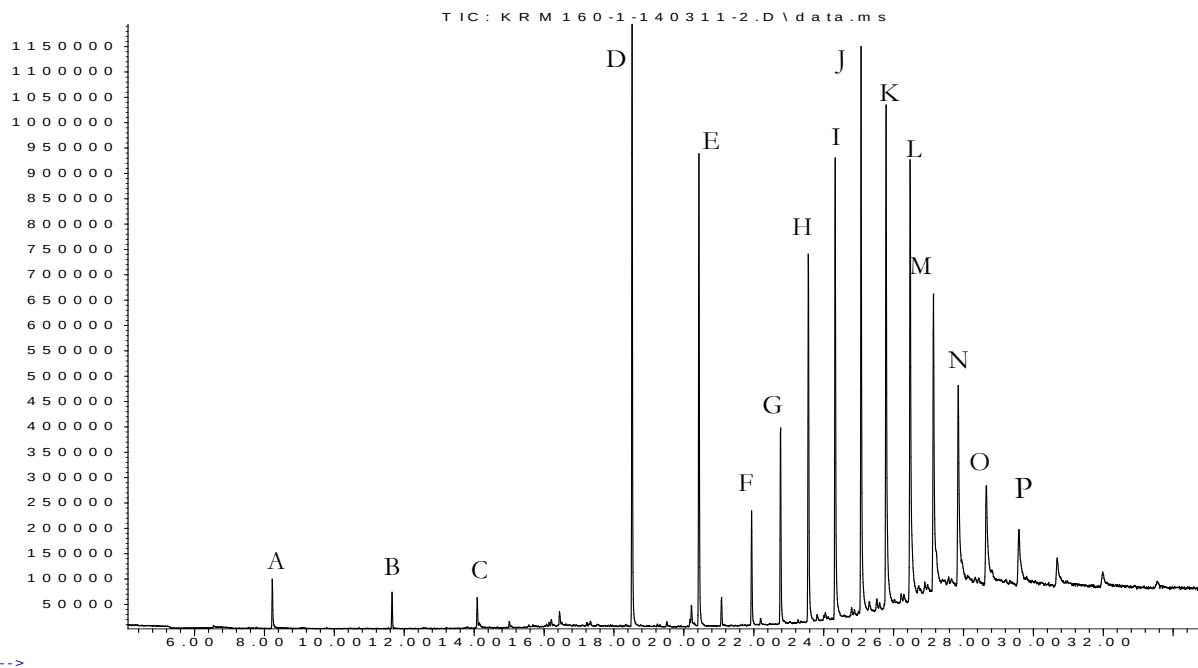
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

Soil (interior): 158, 159, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166

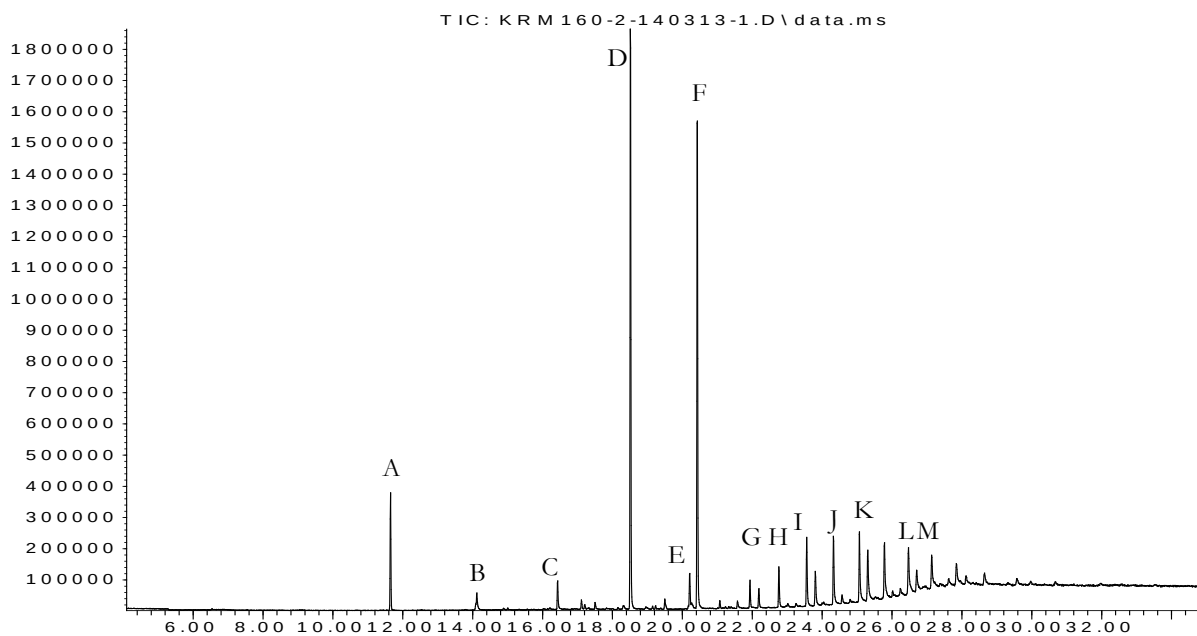
Abundance



SAMPLE KRM160-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Cyclododecane C) Cyclododecanone. D) Hexadecanoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester. F) Eicosane. G) Tetracosane H) Pentacosane. I) Hexacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane. N) Henatriacontane. O) Tetratracontane P) Hexatriacontane

Abundance



SAMPLE KRM160-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Cyclododecane. B) Dodecanoic Acidi, Methyl Ester. C) Tetradeconoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Ocadecenoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester. G) Eicosane. H) Tetracosane I) Pentacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane.

KRM 161

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 51. Burial. Soil sample from inside a copper alloy patera, zone A.

Sample Weight: 1.19642 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00936 g $\pm$ 0.00001 g	(71.17%)
Potassium Hydroxide Extracted Residue:	0.00361 g $\pm$ 0.00001 g	(27.83%)
Total Extracted Residue:	0.01297 g $\pm$ 0.00002 g	

Chloroform Methanol Extraction Yield:	7.82 mg/g
Potassium Hydroxide Extraction Yield:	3.03 mg/g
Total Yield:	10.84 mg/g

Major Peak:

Heptacosane

Secondary Peak:

Octacosane

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}

Alkanes: C₂₀, C₂₁, C₂₄, C₂₅, C₂₆, C₂₇, C₂₈, C₂₉, C₃₀, C₃₁, C₃₂, C₃₄, C₃₆

Cyclododecane

Cross-References:

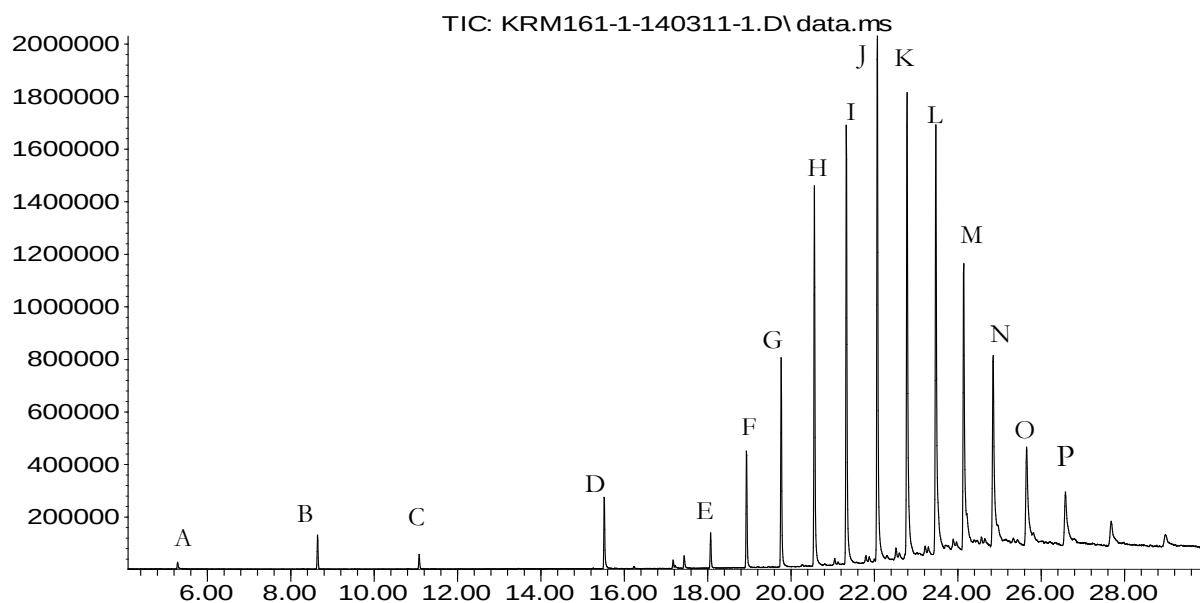
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

Soil (interior): 158, 159, 160, 167

Soil (outside between patera and ceramic vessels): 162, 163, 166

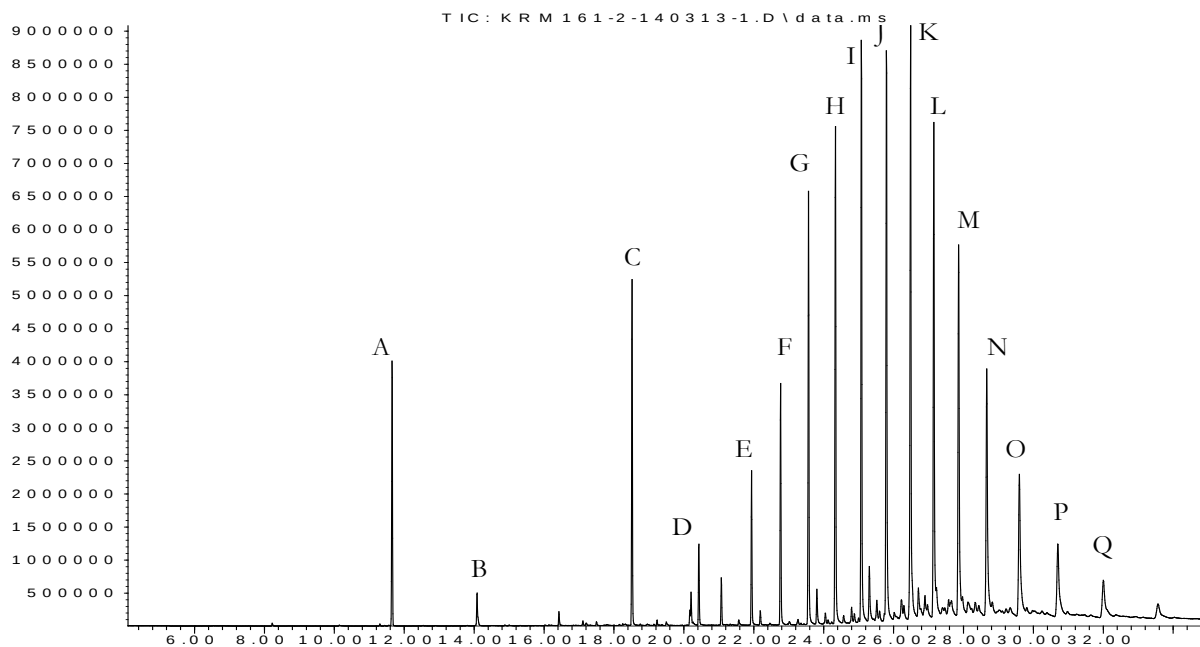
Abundance



SAMPLE KRM161-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane B) Cyclododecane. C) Cyclododecanone. D) Hexadecanoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester. F) Eicosane. G) Tetracosane H) Pentacosane. I)Hexacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane. N) Henatriacontane. O) Tetratracontane P)Hexatriacontane

Abundance



SAMPLE KRM161-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Cyclododecane. B) Cyclododecanone. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Eicosane. F) Heneicosane. G) Tetracosane H) Pentacosane. I)Hexacosane J) Heptacosane K) Octacosane. L) Nonacosane. M) Triacontane. N) Henatriacontane. O) Dotriacontane. P) Tetratracontane Q) Hexatriacontane

KRM 162

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 40. Burial. Soil sample from inside a pot beneath a copper alloy patera.

Sample Weight: 0.19477 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.01111 g $\pm$ 0.00001 g	(97.54%)
Potassium Hydroxide Extracted Residue:	0.00028 g $\pm$ 0.00001 g	(2.46%)
Total Extracted Residue:	0.01139 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	57.04 mg/g
Potassium Hydroxide Extraction Yield:	1.45 mg/g
Total Yield:	58.48 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters:

C_{12:0}, C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{23:0}, C_{24:0}, C_{25:0}, C_{26:0}, C_{27:0}, C_{28:0}

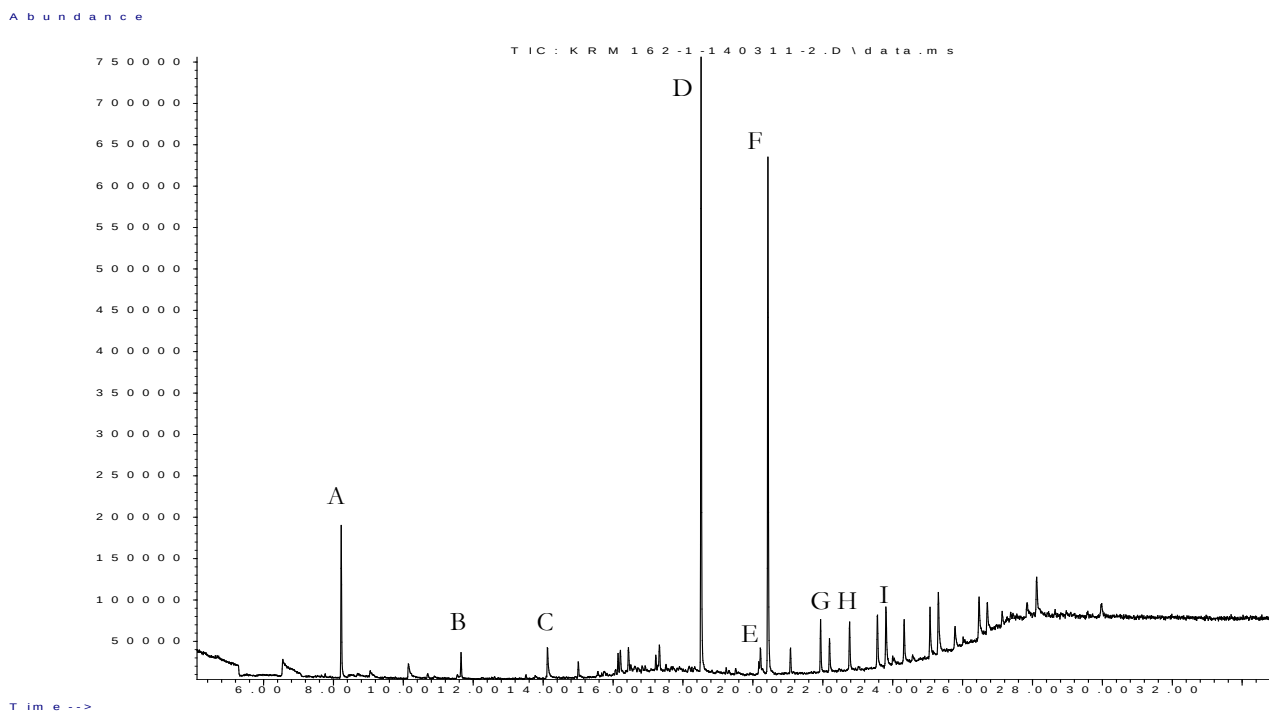
Cross-References:

Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

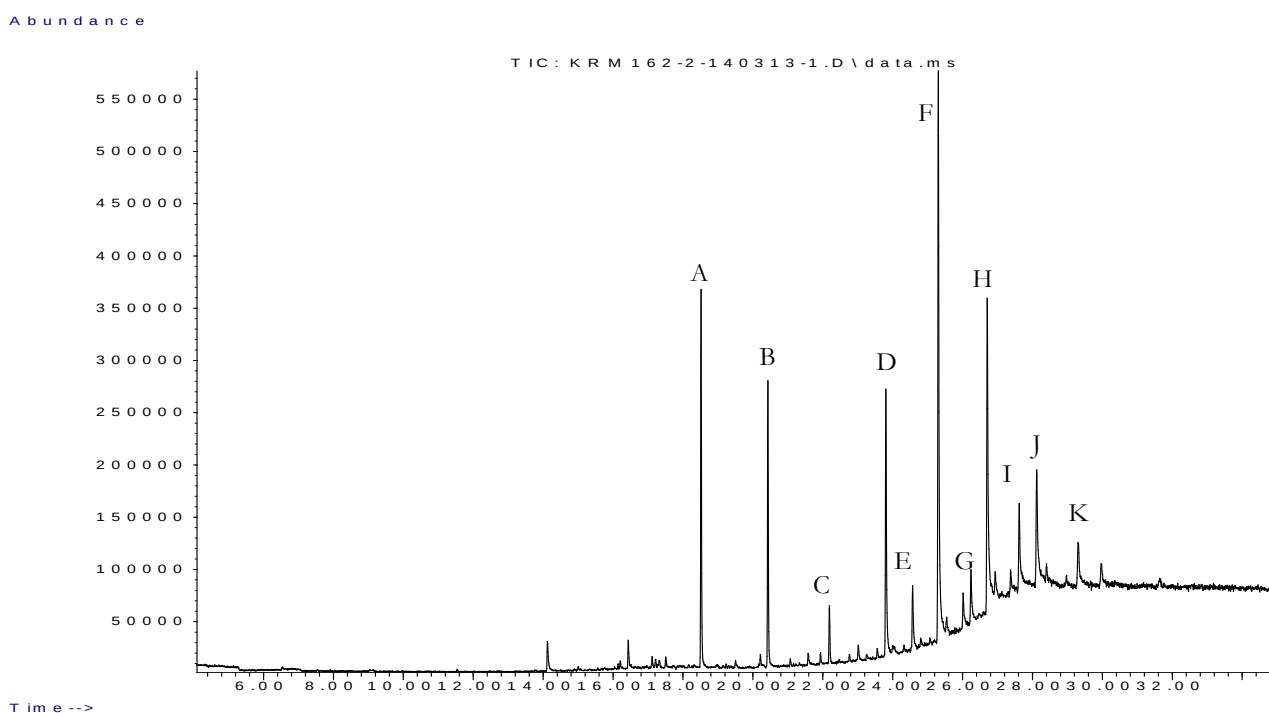
Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 163, 166



SAMPLE KRM162-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Cyclododecane. C) Dodecanoic Acid, Methyl Ester. D) Hexadecanoic Acid, Methyl Ester. E) Octadecenoic Acid, Methyl Ester. F) Octadecanoic Acid, Methyl Ester. G) Eicosanoic Acid, Methyl Ester. H) Docosanoic Acid, Methyl Ester. I) Tetracosanoic Acid, Methyl Ester.



SAMPLE KRM162-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic acid, Methyl Ester. C) Eicosanoic Acid, Methyl Ester. D) Docosanoic Acid, Methyl Ester. E) Tricosanoic Acid, Methyl Ester. F) Tetracosanoic Acid, Methyl Ester. G) Pentacosanoic Acid, Methyl Ester. H) Hexacosanoic Acid, Methyl Ester. I) Heptacosanoic Acid, Methyl Ester. J) Octacosanoic Acid, Methyl Ester.

KRM 163

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 39.

Sample Weight: 0.91464 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00846 g $\pm$ 0.00001 g	(90.58%)
Potassium Hydroxide Extracted Residue:	0.00088 g $\pm$ 0.00001 g	(9.42%)
Total Extracted Residue:	0.00934 g $\pm$ 0.00001 g	

Chloroform Methanol Extraction Yield:	9.25 mg/g
Potassium Hydroxide Extraction Yield:	0.97mg/g
Total Yield:	10.21 mg/g

Major Peak:

Hexacosanoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters:

C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{23:0}, C_{24:0}, C_{25:0}, C_{26:0}, C_{27:0}, C_{28:0}

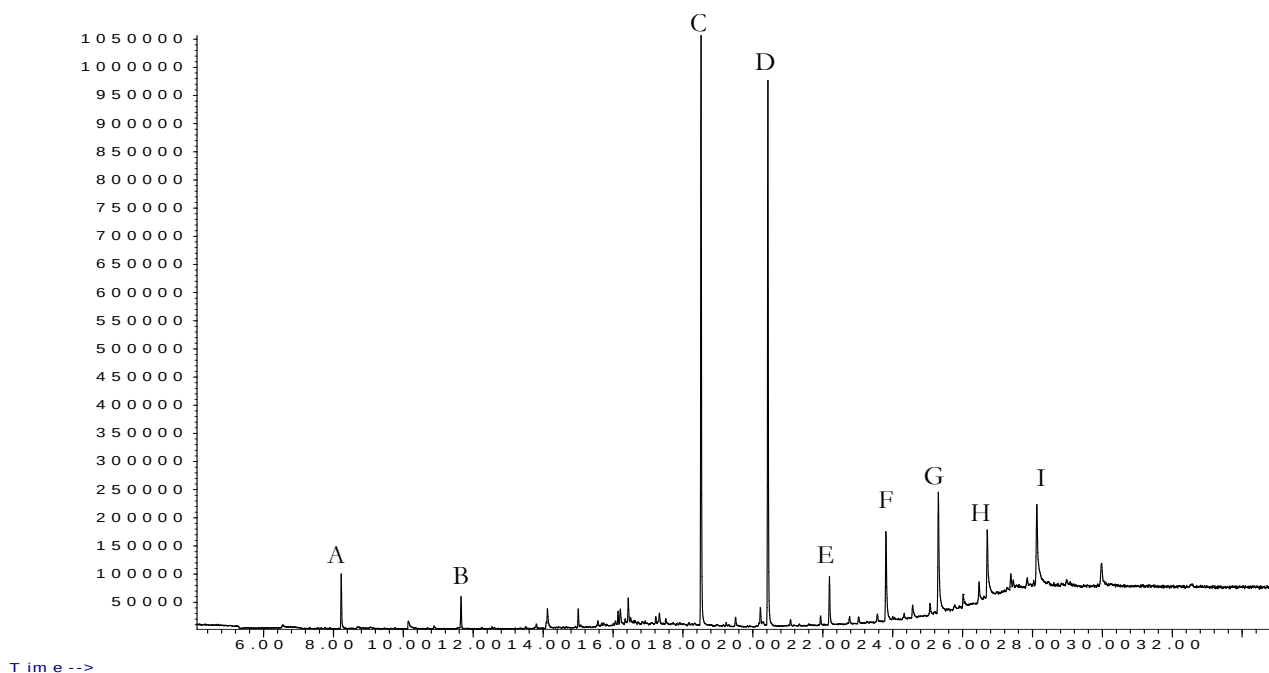
Cross-References:

Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

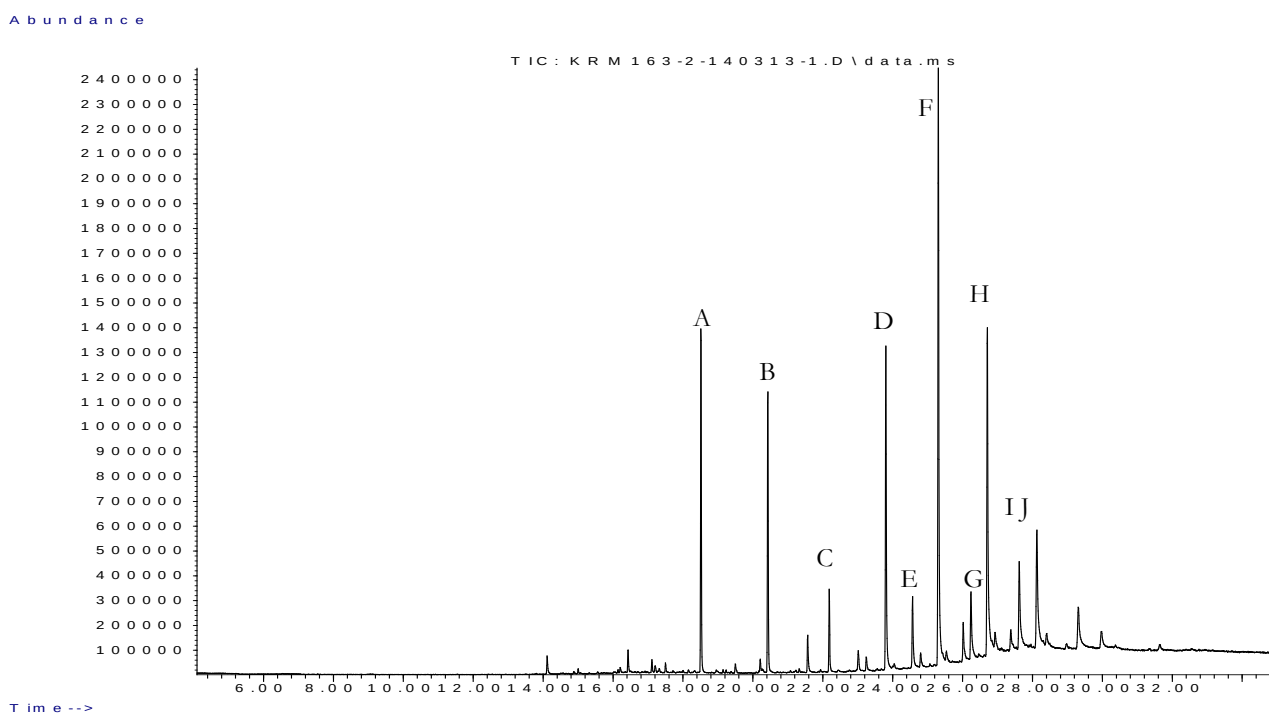
Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 166



SAMPLE KRM163-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Cyclododecane. C) Hexadecanoic Acid, Methyl Ester. D) Octadecanoic Acid, Methyl Ester. E) Eicosanoic Acid, Methyl Ester. F) Docosanoic Acid, Methyl Ester. G) Tetracosanoic Acid, Methyl Ester. H) Hexacosanoic Acid, Methyl Ester. I) Octacosanoic Acid, Methyl Ester.



SAMPLE KRM163-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecanoic Acid, Methyl Ester. C) Eicosanoic Acid, Methyl Ester. D) Docosanoic Acid, Methyl Ester. E) Tricosanoic Acid, Methyl Ester. F) Tetracosanoic Acid, Methyl Ester. G) Pentacosanoic Acid, Methyl Ester. H) Hexacosanoic Acid, Methyl Ester. I) Heptacosanoic Acid, Methyl Ester. J) Octacosanoic Acid, Methyl Ester.

KRM 164

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 41. Ultramarine corrosion from rim between the handles of a copper alloy patera.

Sample Weight: 0.00065 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00019 g $\pm$ 0.00003 g	(76.00%)
Potassium Hydroxide Extracted Residue:	0.00006 g $\pm$ 0.00001 g	(24.00%)
Total Extracted Residue:	0.00025 g $\pm$ 0.00003 g	

Chloroform Methanol Extraction Yield:	292.31 mg/g
Potassium Hydroxide Extraction Yield:	113.21 mg/g
Total Yield:	384.62 mg/g

Major Peak:

Undecane

Secondary Peak:

Plasticisers

Cross-References:

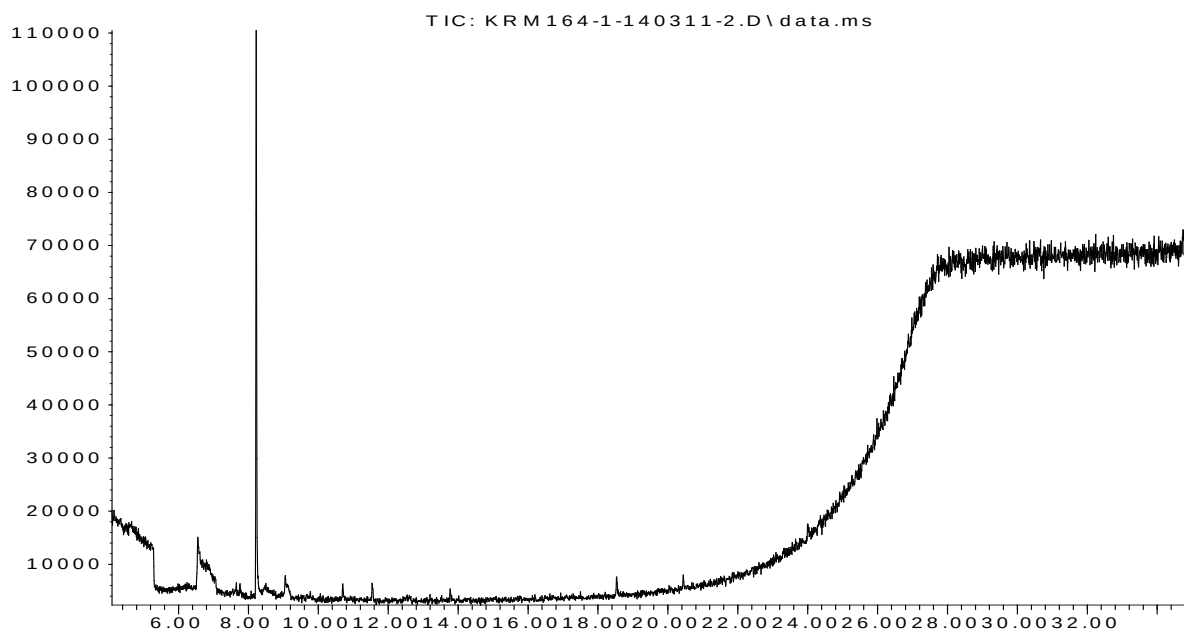
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 165

Soil (interior): 158, 159, 160, 161, 167

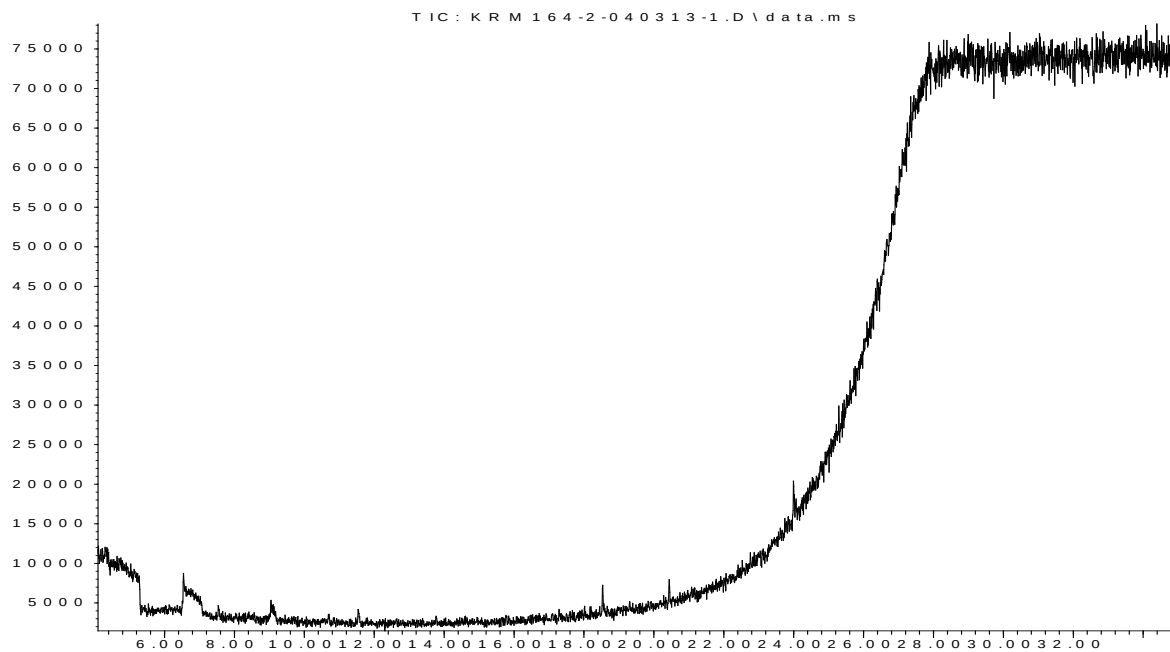
Soil (outside between patera and ceramic vessels): 162, 163, 166

Abundance



SAMPLE KRM164-001: Chloroform/Methanol Extraction and FAME Derivatistation
Undecane

Abundance



SAMPLE KRM164-002: Potassium Hydroxide Extraction and FAME Derivatistaion
Phthalate plasticisers

KRM 165

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 42. White stain from between the handle of a copper alloy patera and its iron fitting.

Sample Weight: 0.00649 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue: 0.00703 g $\pm$ 0.00001 g

Potassium Hydroxide Extracted Residue: insignificant

Total Extracted Residue: 0.00703 g $\pm$ 0.00001 g

The sample must have picked up some contamination in the process as residue is larger than sample.

Major Peak:

Undecane

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

Cross-References:

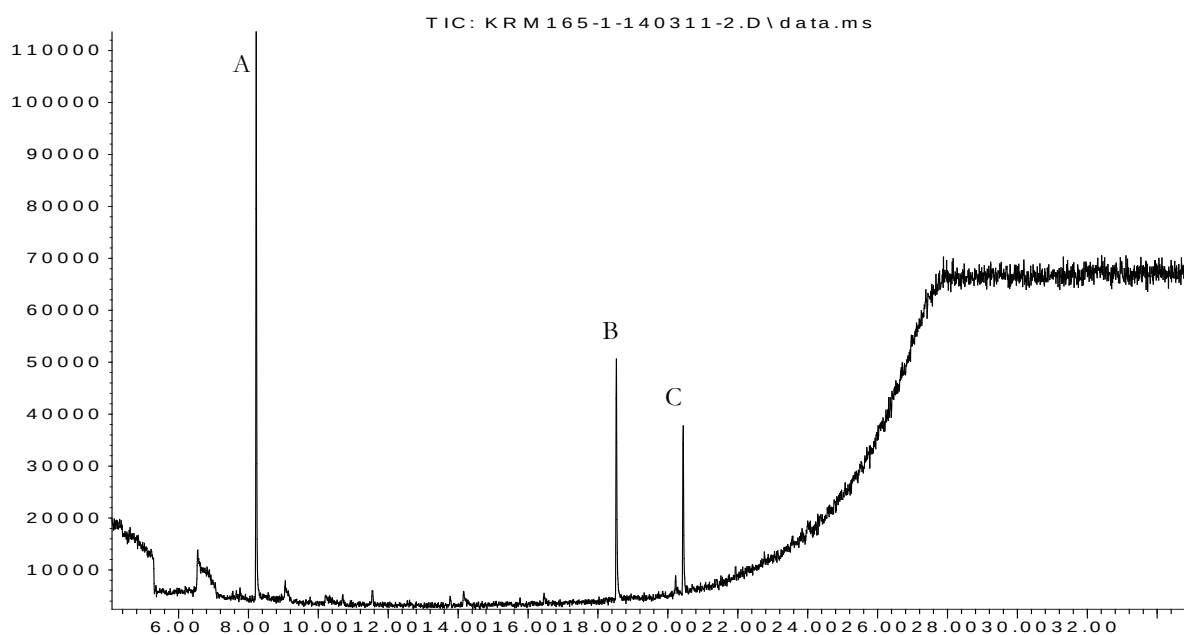
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164

Soil (interior): 158, 159, 160, 161, 167

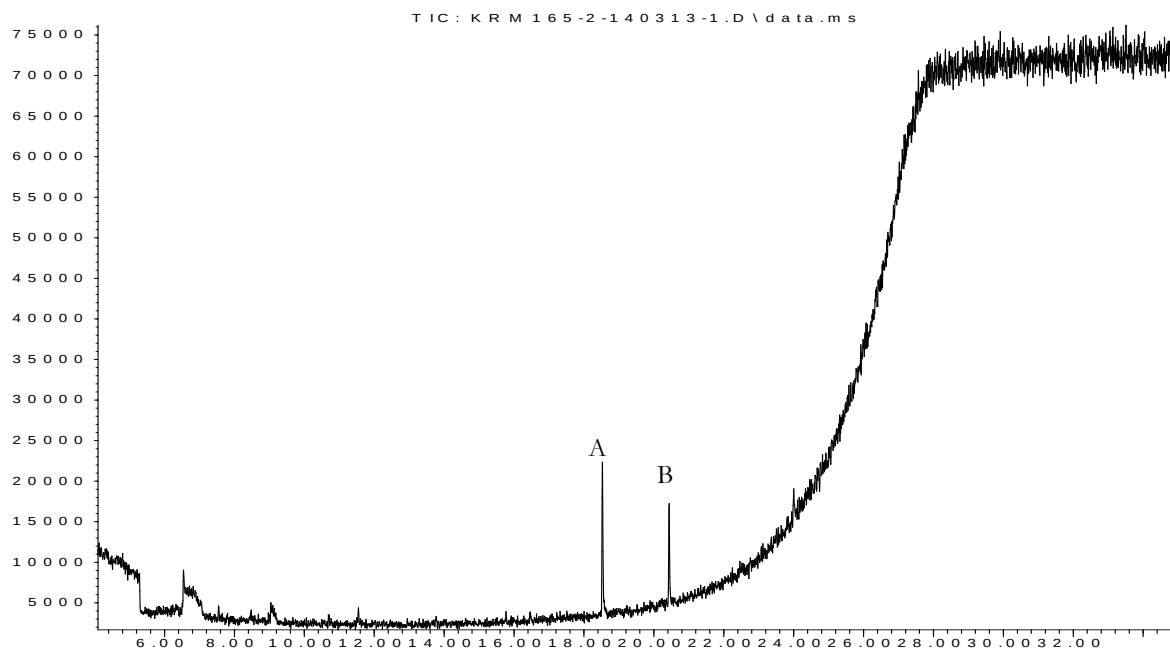
Soil (outside between patera and ceramic vessels): 162, 163, 166

Abundance

**SAMPLE KRM165-001: Chloroform/Methanol Extraction and FAME Derivatistation**

A) Undecane, B) Hexadecanoic Acid, Methyl Ester, C) Octadecanoic Acid, Methyl Ester

Abundance

**SAMPLE KRM165-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

A) Hexadecanoic Acid, Methyl Ester, B) Octadecanoic Acid, Methyl Ester.

KRM 166

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 43. Burial. Soil around Iron fitting of a copper alloy patera.

Sample Weight: 2.24249 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00075 g $\pm$ 0.00001 g	(80.65%)
Potassium Hydroxide Extracted Residue:	0.00018 g $\pm$ 0.00002 g	(19.35%)
Total Extracted Residue:	0.00093 g $\pm$ 0.00002 g	

Chloroform Methanol Extraction Yield:	0.33 mg/g
Potassium Hydroxide Extraction Yield:	0.08 mg/g
Total Yield:	0.41 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecenoic Acid, Methyl Ester

Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{24:0}, C_{26:0}

Cross-References:

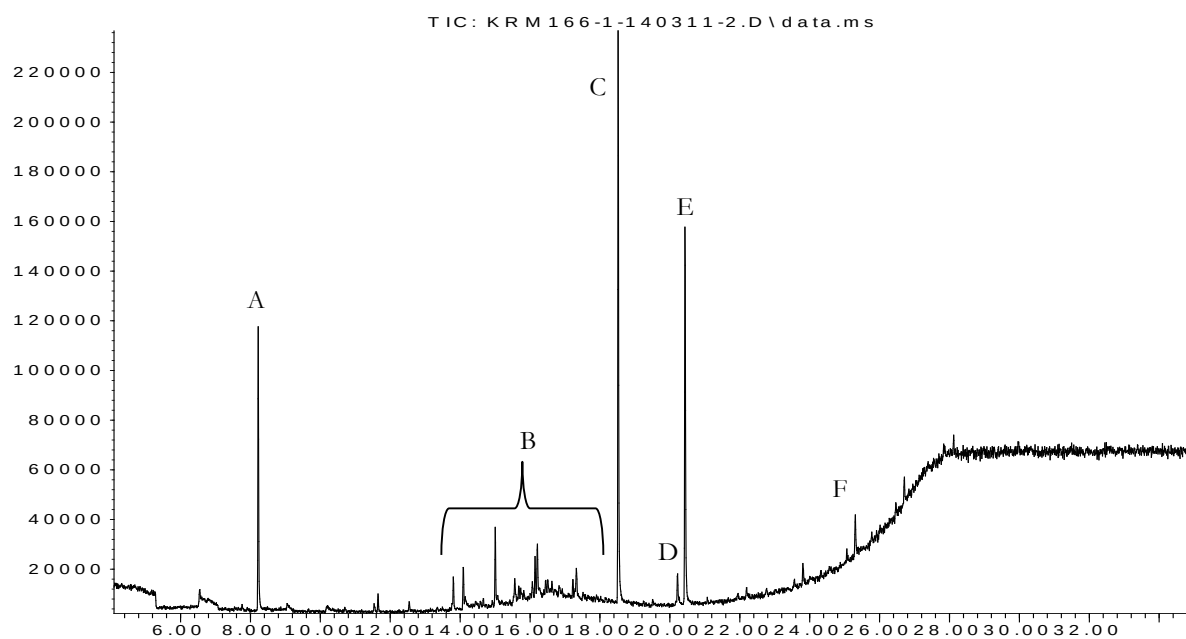
Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

Soil (interior): 158, 159, 160, 161, 167

Soil (outside between patera and ceramic vessels): 162, 163

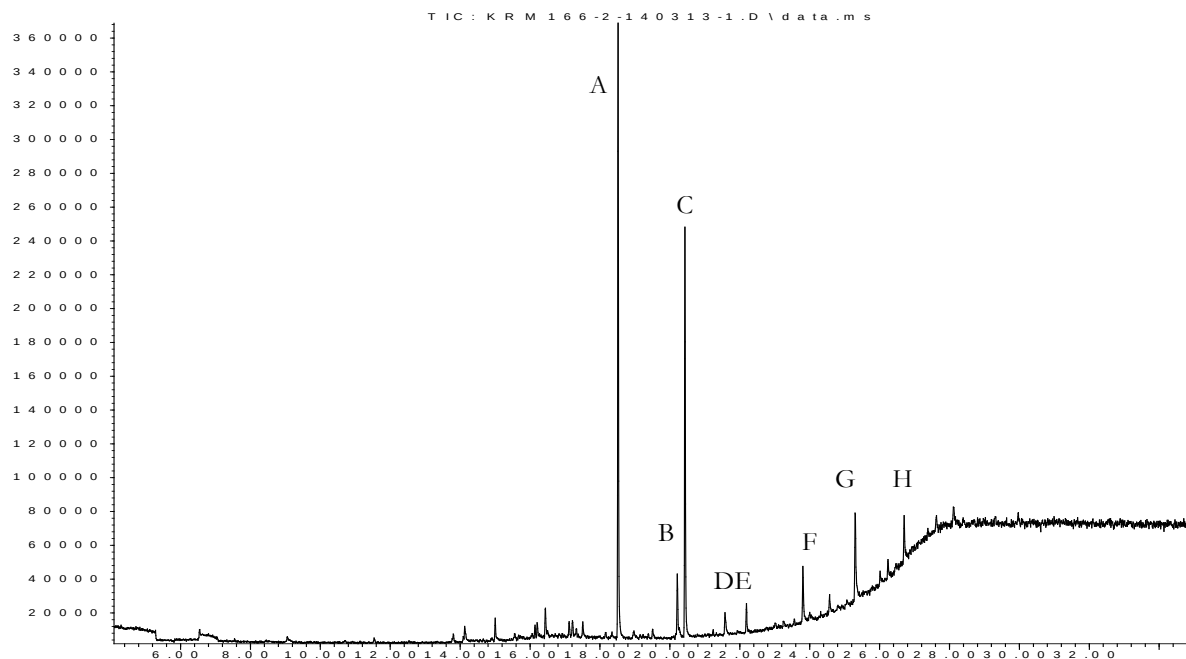
Abundance



SAMPLE KRM166-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B)unidentified hydrocarbons C) Hexadecanoic Acid, Methyl Ester. D) Octadecenoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester F) plasticiser.

Abundance



SAMPLE KRM166-002: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecenoic Acid, Methyl Ester. C) Octadecanoic Acid, Methyl Ester. D) Hexadecanedioic Acid, Dimethyl Ester. E) Eicosanoic Acid, Methyl Ester F) Docosanoic Acid, Methyl Ester G) Tetracosanoic Acid, Methyl Ester. H) Hexacosanoic Acid, Methyl Ester.

KRM 167

A2 Pepperhill to Cobham, Kent, United Kingdom. 2006. Roman. Locus 6661, vessel 1549, sample 58. Soil from inside copper alloy patera.

Sample Weight: 1.42412 g $\pm$ 0.00001 g

Chloroform Methanol Extracted Residue:	0.00288 g $\pm$ 0.00003 g	(82.52%)
Potassium Hydroxide Extracted Residue:	0.00061 g $\pm$ 0.00001 g	(17.48%)
Total Extracted Residue:	0.00349 g $\pm$ 0.00003 g	

Chloroform Methanol Extraction Yield:	2.02 mg/g
Potassium Hydroxide Extraction Yield:	0.43 mg/g
Total Yield:	2.45 mg/g

Major Peak:

Hexadecanoic Acid, Methyl Ester

Secondary Peak:

Octadecanoic Acid Methyl Ester

Other Peaks of Note:

Alkanoic Acid Methyl Esters: C_{16:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{24:0}, C_{26:0}

Diacids: Hexanedioic Acid, Dimethyl Ester

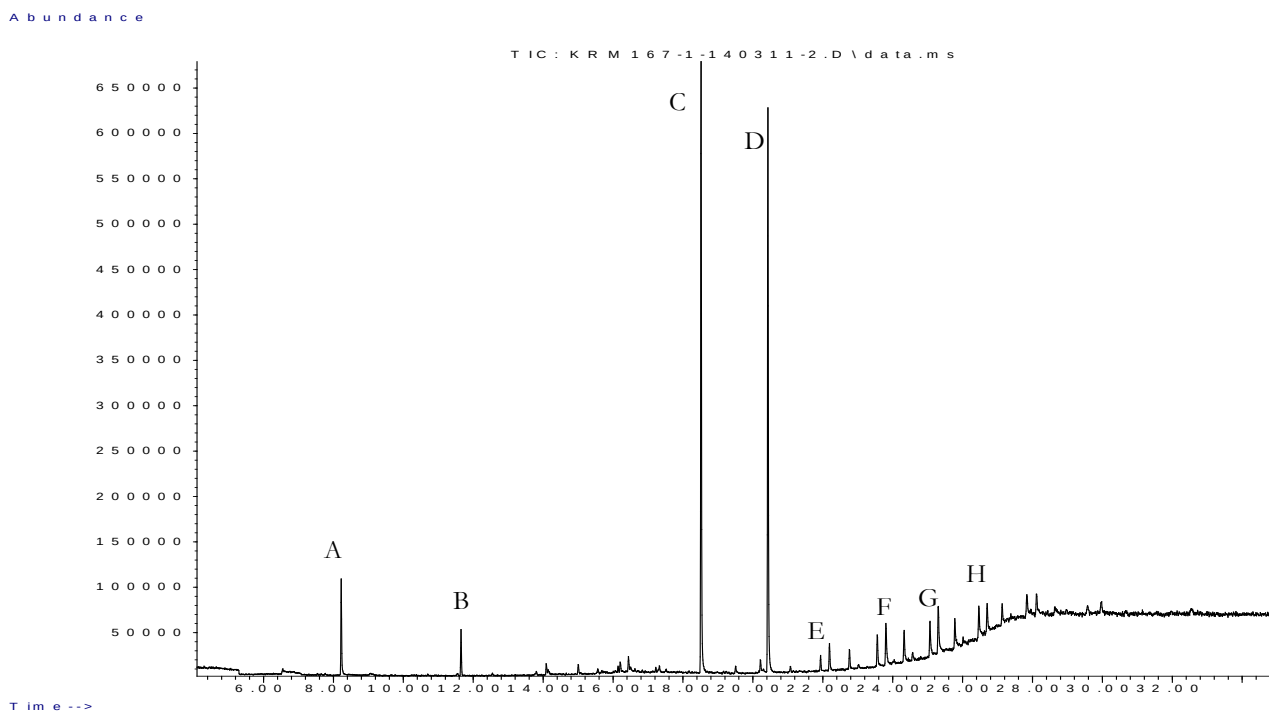
Cross-References:

Vessel (interior): 148, 149

Vessel (exterior): 150, 151, 164, 165

Soil (interior): 158, 159, 160, 161

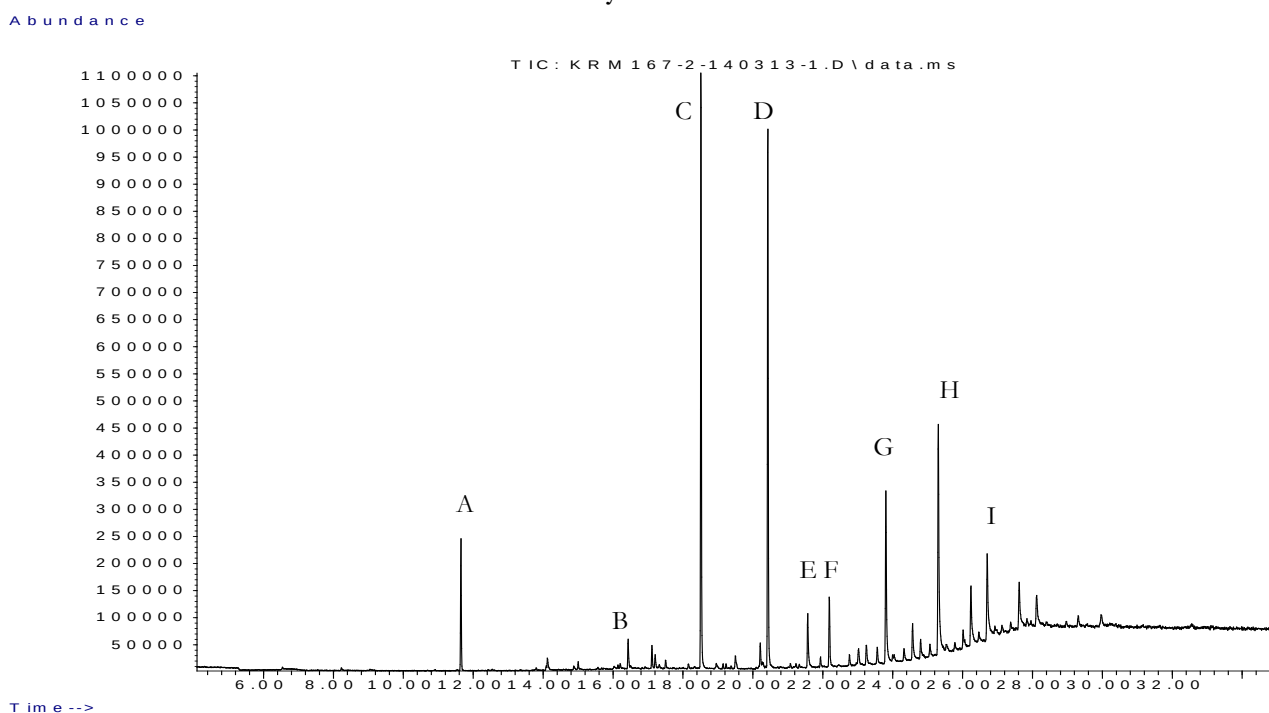
Soil (outside between patera and ceramic vessels): 162, 163, 166



SAMPLE KRM167-001: Chloroform/Methanol Extraction and FAME Derivatistation

A) Undecane. B) Cyclododecane. C) Hexadecanoic Acid, Methyl Ester D) Octadecanoic Acid, Methyl Ester E) Eicosanoic Acid, Methyl Ester. F) Docosanoic Acid, Methyl Ester. G) Tetracosanoic Acid, Methyl Ester. H) Hexacosanoic Acid, Methyl Ester.

SAMPLE KRM167-002: Potassium Hydroxide Extraction and FAME Derivatistaion



A) Cyclododecane B) Tetradecanoic Acid, Methyl Ester, C) Hexadecanoic Acid, Methyl Ester D) Octadecanoic Acid, Methyl Ester E) Hexadecanedioic Acid, Dimethyl Ester. F) Eicosanoic Acid, Methyl Ester. G) Docosanoic Acid, Methyl Ester. H) Tetracosanoic Acid, Methyl Ester. I) Hexacosanoic Acid, Methyl Ester.

KRM 168

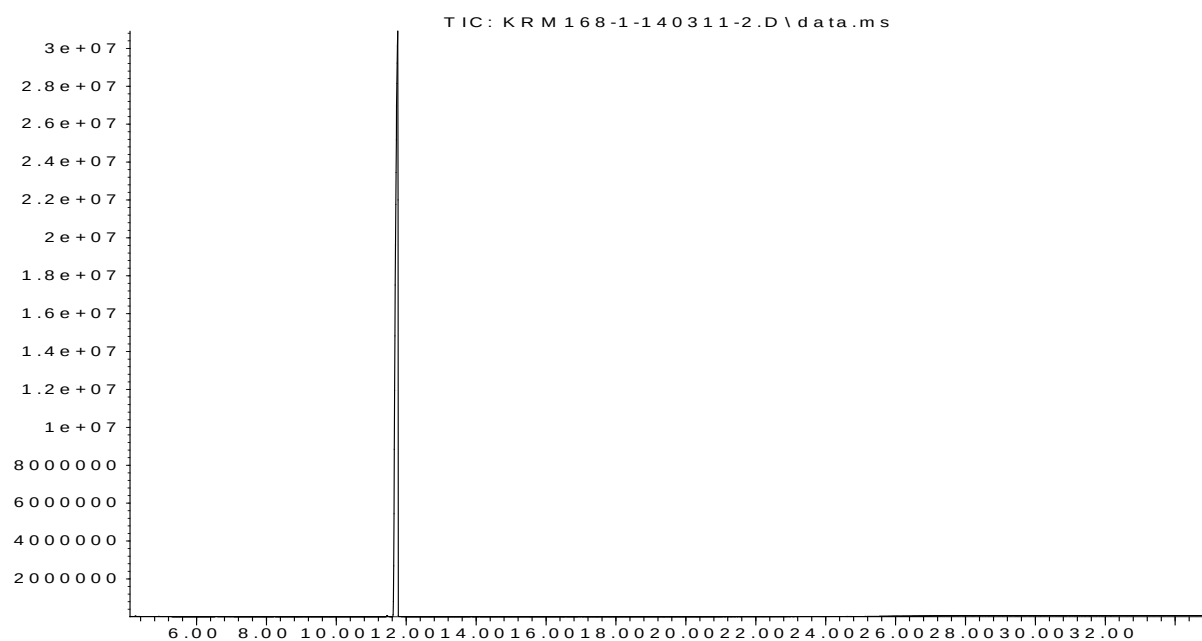
CDD Sample (Consolidant for copper alloy vessels from A2 project)

Sample Weight: $0.04971\text{g} \pm 0.00001\text{g}$

Major Peak:

Cyclododecane.

Abundance



Time -->

SAMPLE KRM168-001: Potassium Hydroxide Extraction and FAME Derivatistaion
Cyclododecane.

KRM 169

Commercial sunflower oil. Flora.

Sample Weight: 0.19358g $\pm$ 0.00001g

Major Peak:

Octadecadienoic Acid, Methyl Ester

Secondary Peak:

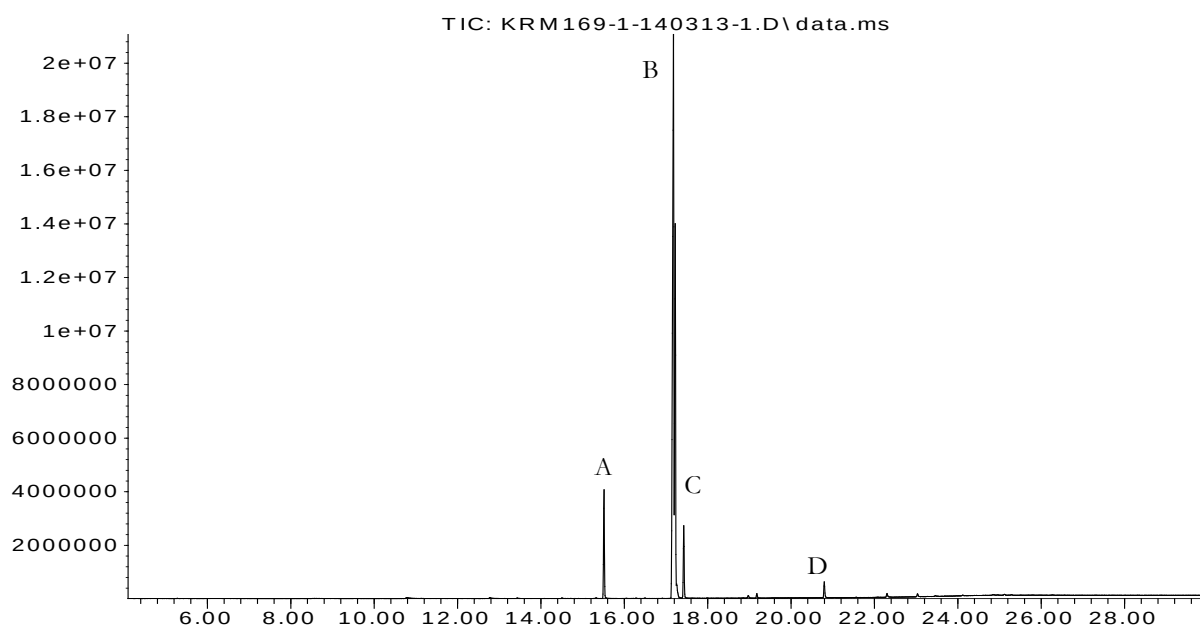
Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Octadecanoic Acid, Methyl Ester

Docosanoic Acid, Methyl Ester

Abundance



Time-->

SAMPLE KRM169-001: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Octadecadienoic Acid, Methyl Ester C) Octadecanoic Acid, Methyl Ester D) Docosanoic Acid, Methyl Ester.

KRM 170

Commercial Grapeseed Oil.

Sherd Weight: $0.17575\text{g} \pm 0.00001\text{g}$

Major Peak:

Octadecadienoic Acid Methyl Ester

Secondary Peak:

Octadecenoic Acid, Methyl Ester

Other Peaks of Note:

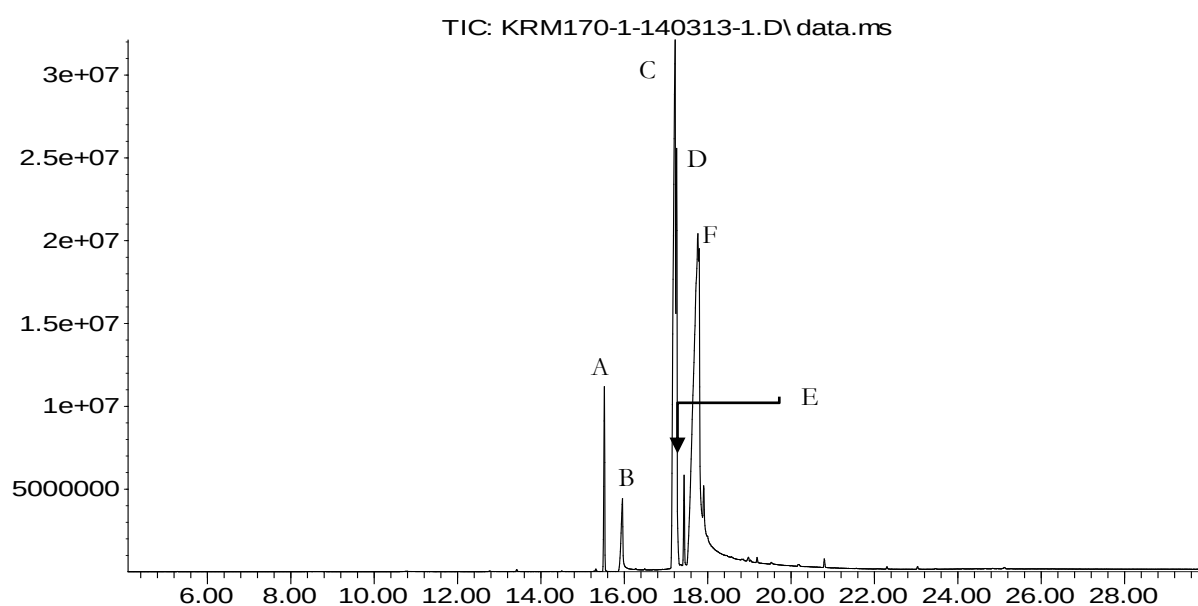
Hexadecanoic Acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

Cross-References:

Grapeseed Oil: 016

Abundance



SAMPLE KRM170-001: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecenoic Acid, Methyl Ester B) Hexadecanoic Acid. C) Octadecadienoic Acid, Methyl Ester D) Octadecenoic Acid, Methyl Ester E) Octadecanoic Acid, Methyl Ester F) a mixture of C₁₈ hydrocarbons

KRM 171

Commercial Olive Oil.

Sample Weight: 0.17099g $\pm$ g

Major Peak:

Octadecenoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

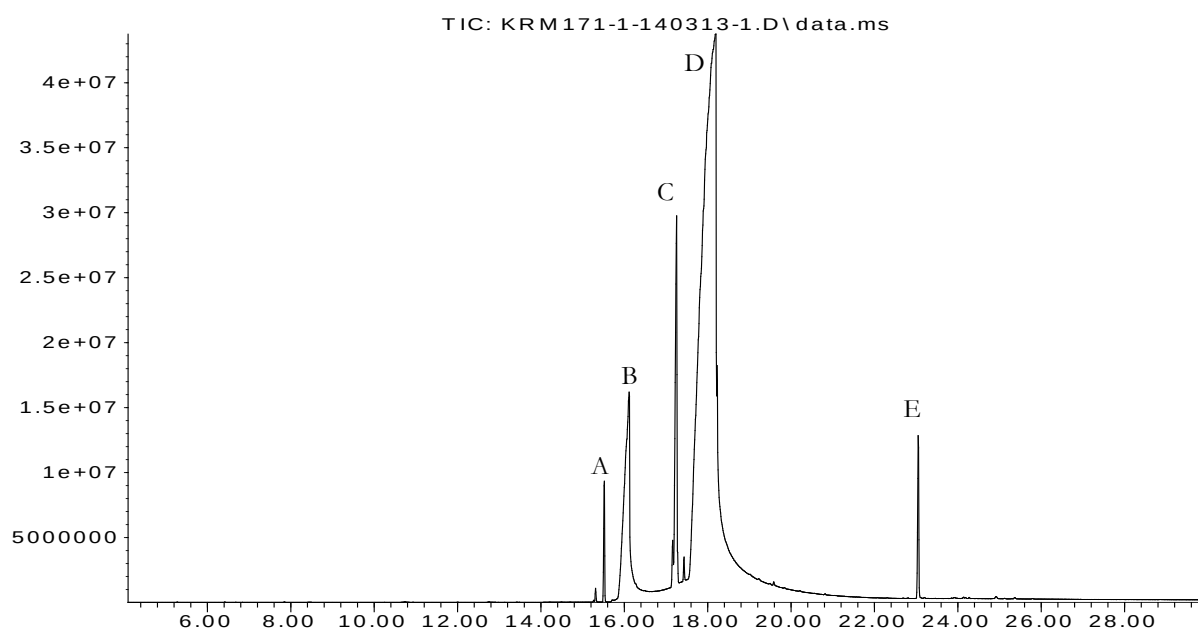
Other Peaks of Note:

Squalene

Cross-References:

Olive Oil on Ceramic: 001, 002

Abundance



Time-->

SAMPLE KRM171-001: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Hexadecanoic Acid, Methyl Ester. B) Hexadecanoic Acid. C) Octadecenoic Acid, Methyl Ester. D) Octadecenoic Acid E) Squalene.

KRM 172

Commercial lard.

Sample Weight: 0.15698g $\pm$ 0.00001g

Major Peak:

Octadecenoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

Other Peaks of Note:

Tetradecanoic acid, Methyl Ester

Hexadecenoic Acid, Methyl Ester

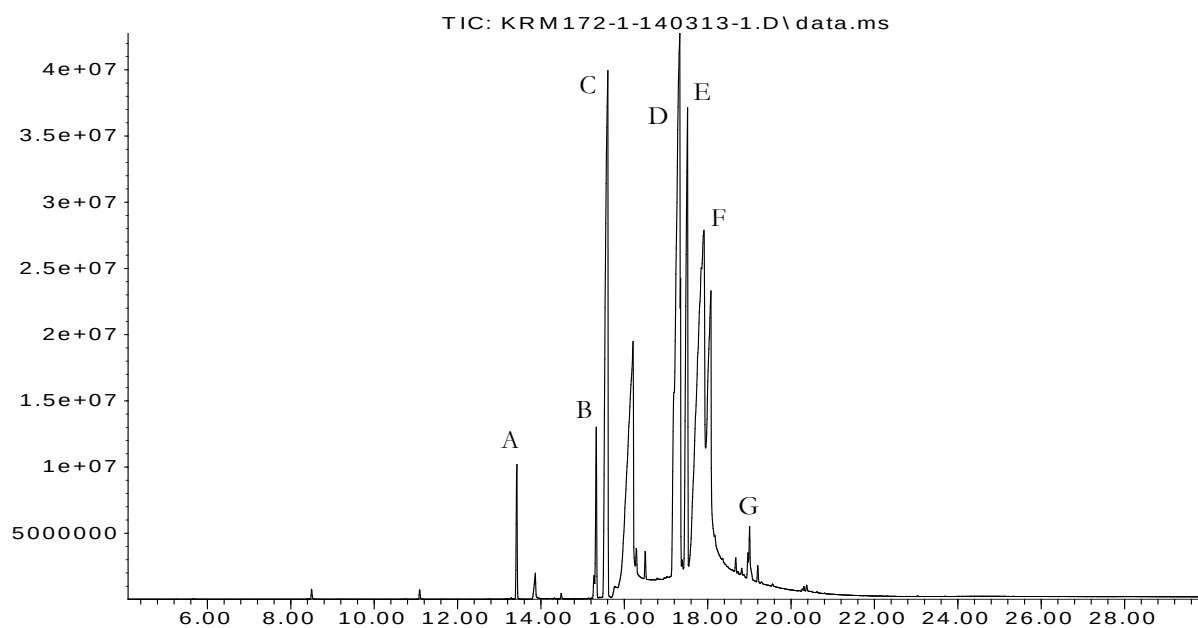
Octadecanoic Acid, Methyl Ester

Eicosanoic Acid, Methyl Ester

Cross-References:

Lard: 172

Abundance



SAMPLE KRM172-001: Potassium Hydroxide Extraction and FAME Derivatistaion

A) Tetradecanoic Acid, Methyl Ester. B) Hexadecenoic Acid, Methyl Ester C) Hexadecanoic Acid, Methyl Ester. D) Octadecenoic Acid, Methyl Ester. E) Octadecanoic Acid, Methyl Ester. F) a fatty acid methyl ester. C18? G) Eicsosenoic Acid, Methyl Ester

KRM 173

Commercial Milk. Tesco, semi-skimmed.

Sample Weight: 0.17085g $\pm$ g

Major Peak:

Octadecenoic Acid, Methyl Ester

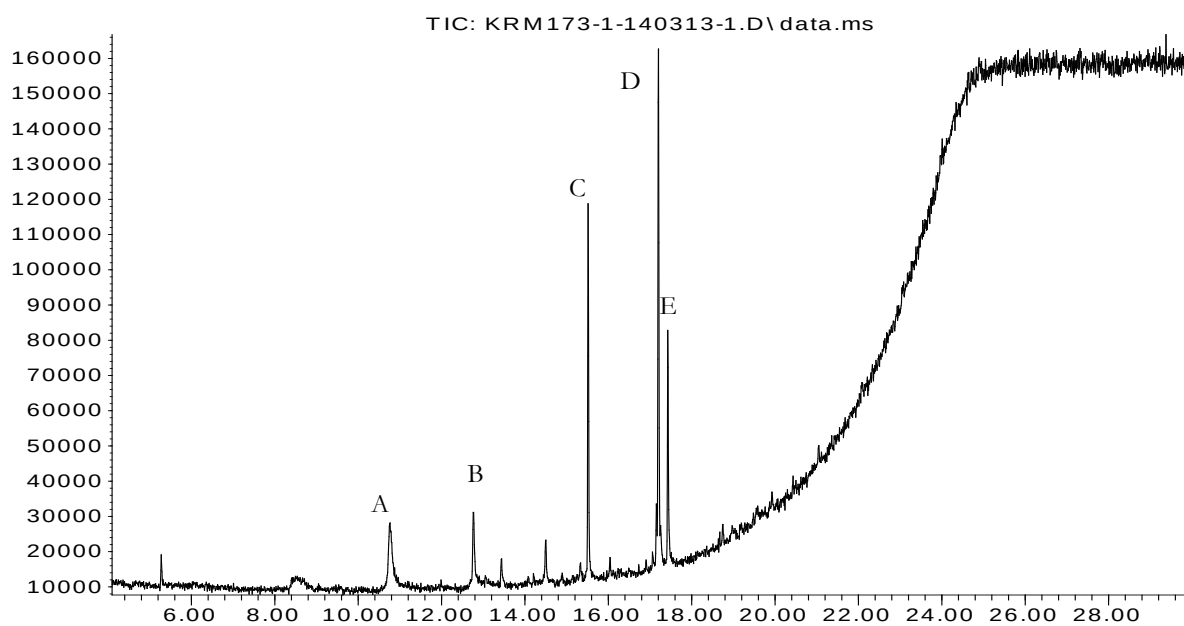
Secondary Peak:

Hexadecanoic acid, Methyl Ester

Octadecanoic Acid, Methyl Ester

Other Peaks of Note:

Abundance

**SAMPLE KRM173-001: Potassium Hydroxide Extraction and FAME Derivatistaion**

A, B) siloxanes. C) Hexadecanoic Acid, Methyl Ester. D) Octadecenoic Acid, Methyl Ester E) Octadecanoic Acid, Methyl Ester.

KRM 174

Gin. Hendrik's.

KRM 174-001

Sample Weight: 0.18030g $\pm$ 0.00001g

KRM 174-002

Sample Weight: 0.17631g $\pm$ 0.00001g

Major Peak:

Octadecadienoic Acid, Methyl Ester

Secondary Peak:

Octadecenoic Acid, Methyl Ester

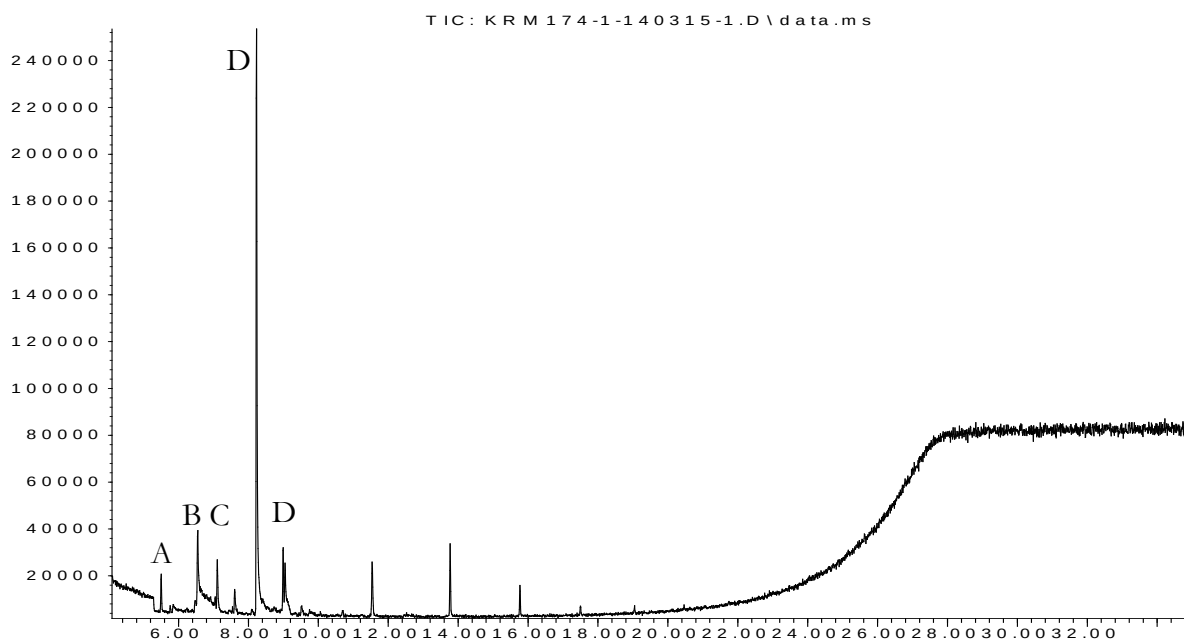
Other Peaks of Note:

Hexadecanoic Acid, Methyl Ester

Octadecanoic acid, Methyl Ester

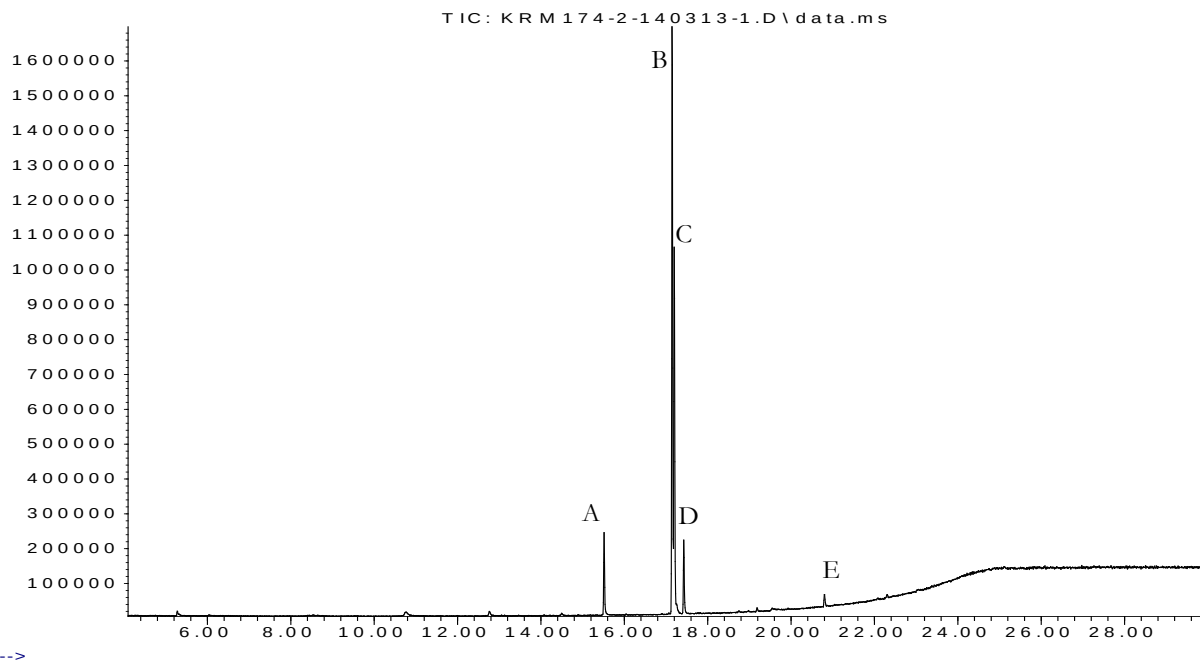
Docosanoic acid, Methyl Ester

Abundance

**SAMPLE KRM174-001: Underivatised**

A) Pinene. B) Limonene. C) Terpinene. D) Ocadienol. E) 2- Bornanone.

Abundance

**SAMPLE KRM174-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

A) Hexadecanoic Acid, Methyl Ester B) Octadecadienoic Acid, Methyl Ester. C) Octadecenoic Acid, Methyl Ester D) Octadecanoic Acid, Methyl Ester E) Docosanoic Acid, Methyl Ester.

KRM 175

Gin, Tanqueray.

KRM 175-001

Sample Weight: 0.15335g $\pm$ 0.00001g

KRM 175-002

Sample Weight: 0.15999g $\pm$ 0.00001g

Major Peak:

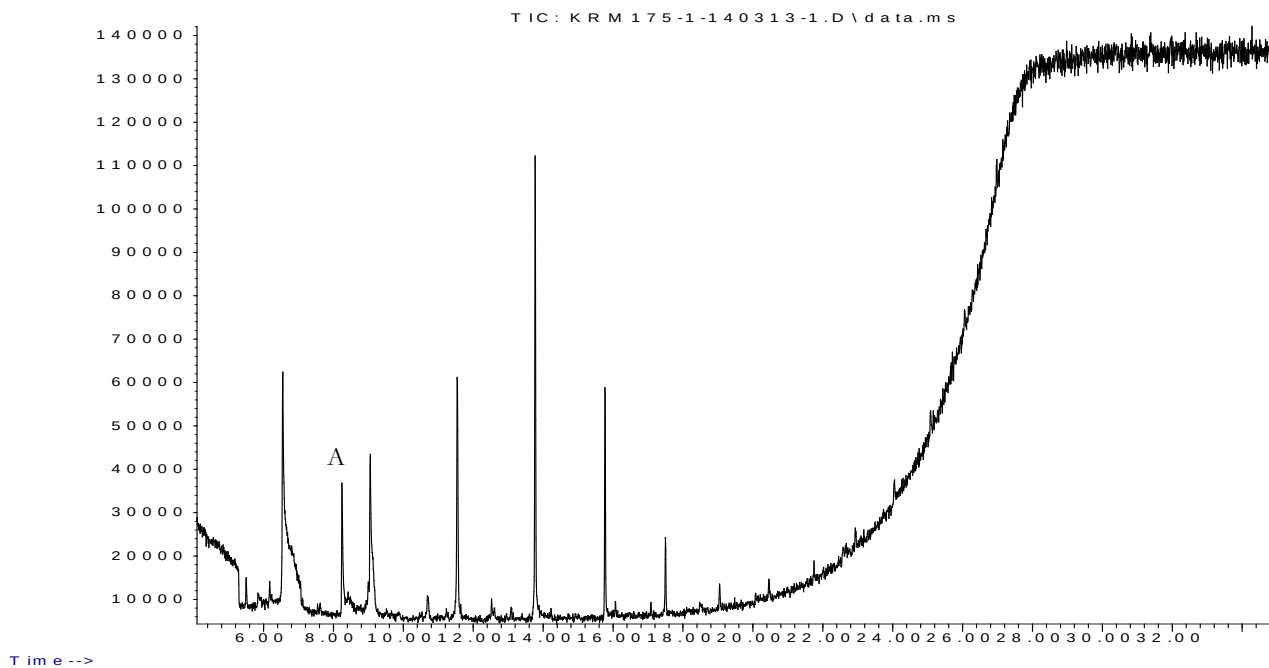
Octadecenoic Acid, Methyl Ester

Secondary Peak:

Hexadecanoic Acid, Methyl Ester

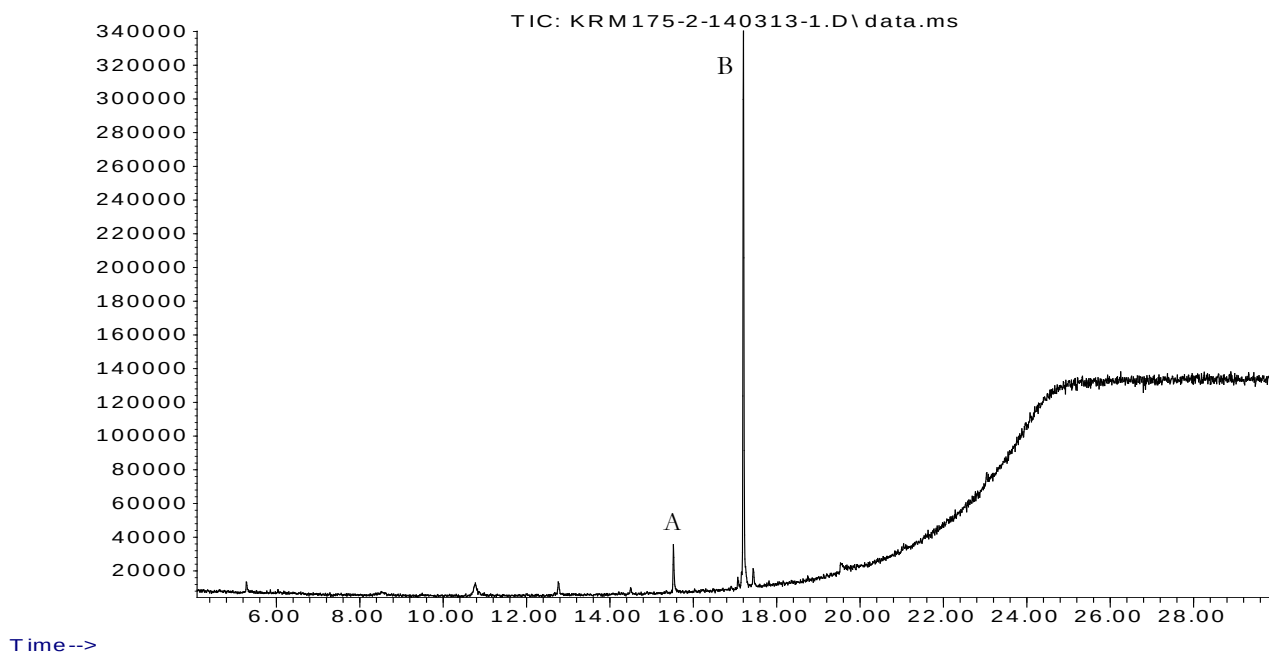
Other Peaks of Note:

Abundance

**SAMPLE KRM175-001: Underivatised**

A) Dimethyl- octadeienol. siloxanes.

Abundance

**SAMPLE KRM175-002: Potassium Hydroxide Extraction and FAME Derivatistaion**

A) Hexadecanoic Acid, Methyl Ester. B) Octadecenoic Acid, Methyl Ester