

1 = 30/6-10 Dst2 Oseberg Sample 14-0

2 = 30/6-13 Dst2 Oseberg Sample 15-0

3 = N.Ø.Frigg CV 213tep.2 Sample 16-0

4 = 25/1-1 Frigg Sample 17-0

BA-94-1575-1

	Rock Extracted (g)	EOM (mg)	Sat (mg)	Aro (mg)	Asph (mg)	NSO (mg)	HC (mg)	Non-HC (mg)	TOC(e) (%)	Sample
1.00	-	49.8	5.0	1.0	0.5	43.3	6.0	43.8	-	0014-0B
2.00	-	52.2	12.6	6.2	0.7	32.7	18.8	33.4	-	0015-0B
3.00	-	50.5	2.9	13.7	-	33.9	16.6	33.9	-	0016-0B
4.00	-	52.0	15.0	7.4	0.7	28.9	22.4	29.6	-	0017-0B

Table 1 b: Composition of material extracted from the rock (%) for well OILS

	<u>Sat</u>	<u>Aro</u>	<u>Asph</u>	<u>NSO</u>	<u>HC</u>	<u>Non-HC</u>	<u>Sat</u>	<u>HC</u>	
	<u>EOM</u>	<u>EOM</u>	<u>EOM</u>	<u>EOM</u>	<u>EOM</u>	<u>EOM</u>	<u>Aro</u>	<u>Non-HC</u>	<u>Sample</u>
1.00	10.04	2.01	1.00	86.95	12.05	87.95	500.00	13.70	0014-0B
2.00	24.14	11.88	1.34	62.64	36.02	63.98	203.23	56.29	0015-0B
3.00	5.74	27.13	-	67.13	32.87	67.13	21.17	48.97	0016-0B
4.00	28.85	14.23	1.35	55.58	43.08	56.92	202.70	75.68	0017-0B

Table 2 : Saturated Hydrocarbon Ratios for well OILS

	<u>Pristane</u> <u>nC17</u>	<u>Pristane</u> <u>Phytane</u>	<u>Pristane + Phytane</u> <u>nC17 + nC18</u>	<u>Phytane</u> <u>nC18</u>	<u>CPI</u>	<u>Sample</u>
1.00	0.58	1.87	0.51	0.42	1.27	0014-0B
2.00	0.52	1.68	0.46	0.38	1.08	0015-0B
3.00	1.00	-	-	-	-	0016-0B
4.00	1.14	1.91	0.78	0.49	1.31	0017-0B

Table 3 : Aromatic Hydrocarbon Ratios for well OILS STORD

	MNR	DMNR	BPhR	2/1MP	MPI1	MPI2	Rc	DBT/P	4/1MDBT	(3+2) /1MDBT	Sample
1.00	0.81	2.02	0.24	0.91	0.88	0.77	0.93	0.70	6.04	1.17	0014-0B
2.00	1.17	2.25	0.13	0.79	0.82	0.67	0.89	-	3.89	0.98	0015-0B
3.00	1.00	-	-	-	-	-	0.40	-	-	-	0016-0B
4.00	-	-	-	0.99	0.96	0.74	0.98	0.55	6.37	2.08	0017-0B

Table 4 : Tabulation of carbon isotope data for EOM/EOM - fractions or Oils

	<u>EOM/Oil</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
1.00	-	-29.77	-28.82	-25.70	-25.67	-	0014-0
2.00	-	-29.28	-28.11	-27.19	-26.64	-	0015-0
3.00	-	-27.53	-26.70	-26.66	-	-	0016-0
4.00	-	-28.59	-27.80	-27.64	-26.48	-	0017-0

Table 4B : Tabulation of cv values from carbon isotope data for well OILS

	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Interpretation</u>	<u>Sample</u>
1.00	-29.77	-28.82	-0.31	Marine	0014-0
2.00	-29.28	-28.11	0.02	Marine	0015-0
3.00	-27.53	-26.70	-1.27	Marine	0016-0
4.00	-28.59	-27.80	-1.03	Marine	0017-0

Table5A: Variation in Triterpane Distribution for Well OILS

	B/A	B/B+A	B		C/E	C/C+E	X/E	Z/E	Z/C	Z/Z+E	Q/E	E/E+F	C+D		J1		Sample
			B+E+F										C+D+E+F	D+F/C+E	J1+J2%		
1.00	1.09	0.52	0.24	0.55	0.35	0.09	-	-	-	0.18	0.85	0.37	0.22	-	-	0014-0	
2.00	0.90	0.47	0.18	0.54	0.35	0.10	-	-	-	0.06	0.91	0.38	0.15	61.11	-	0015-0	
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0016-0	
4.00	0.73	0.42	0.36	0.59	0.37	0.34	-	-	-	0.26	1.00	0.37	-	50.00	-	0017-0	

Table 5B: Variation in Sterane Distribution (peak height) for Well OILS

	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Ratio6	Ratio7	Ratio8	Ratio9	Ratio10	Sample
1.00	-	-	-	-	-	-	-	-	-	-	0014-0
2.00	1.00	60.98	75.45	0.64	0.72	0.25	0.20	0.61	1.56	3.94	0015-0
3.00	1.00	-	-	4.38	-	1.00	1.00	-	-	-	0016-0
4.00	1.00	55.00	70.59	0.85	0.69	0.40	0.32	0.55	1.22	2.67	0017-0

Ratio1: $a / a + j$
 Ratio2: $q / q + t * 100\%$
 Ratio3: $2(r + s) / (q + t + 2(r + s)) * 100\%$
 Ratio4: $a + b + c + d / h + k + l + n$
 Ratio5: $r + s / r + s + q$

Ratio6: $u + v / u + v + q + r + s + t$
 Ratio7: $u + v / u + v + i + m + n + q + r + s + t$
 Ratio8: $r + s / q + r + s + t$
 Ratio9: q / t
 Ratio10: $r + s / t$

Table 5c: Aromatisation of Steranes for Well OILS

	Ratio1	Ratio2	Sample
1.00	0.63	-	0014-0
2.00	0.52	0.78	0015-0
3.00	-	-	0016-0
4.00	0.40	0.87	0017-0

Ratio1:
$$\frac{C1+D1+E1+F1+G1+H1+I1}{C1+D1+E1+F1+G1+H1+I1 + c1+d1+e1+f1+g1}$$

Ratio2: $g1 / g1 + I1$

Table5D: Variation in Monoaromatic Sterane Distribution for Well OILS

	<u>Ratio1</u>	<u>Ratio2</u>	<u>Ratio3</u>	<u>Ratio4</u>	<u>Sample</u>
1.00	0.54	0.61	0.38	0.30	0014-0
2.00	0.52	0.50	0.36	0.32	0015-0
3.00	1.00	1.00	1.00	1.00	0016-0
4.00	0.74	0.65	0.58	0.50	0017-0

Ratio1: $A1 / A1 + E1$
 Ratio2: $B1 / B1 + E1$

Ratio3: $A1 / A1 + E1 + G1$
 Ratio4: $A1+B1 / A1+B1+C1+D1+E1+F1+G1+H1+I1$

Table 5E: Variation in Triaromatic Sterane Distribution for Well OILS

	Ratio1	Ratio2	Ratio3	Ratio4	Ratio5	Sample
1.00	1.00	1.00	0.40	0.39	0.38	0014-0
2.00	0.48	0.48	0.25	0.23	0.32	0015-0
3.00	1.00	1.00	1.00	1.00	1.00	0016-0
4.00	0.65	0.62	0.40	0.39	0.54	0017-0

Ratio1: $a1 / a1 + g1$

Ratio2: $b1 / b1 + g1$

Ratio3: $a1 + b1 / a1 + b1 + c1 + d1 + e1 + f1 + g1$

Ratio4: $a1 / a1 + e1 + f1 + g1$

Ratio5: $a1 / a1 + d1$

Table5F: Raw GCMS triterpane data (peak height) for Well OILS

	p	q	r	s	t	a	b	z	c	Sample
	x	d	e	f	g	h	i	j1		
	j2	k1	k2	l1	l2	m1	m2			
1.00	10.00 0.00	6.00 3.00 0.00	13.00 5.00 0.00	0.00 33.00 0.00	0.00 6.00 0.00	0.00 10.00 0.00	11.00 0.00 0.00	12.00 0.00 0.00	0.00 0.00 0.00	18.00 0014-0
2.00	6.00 7.00	5.00 8.00 0.00	4.00 10.00 0.00	5.00 80.00 0.00	0.00 8.00 0.00	0.00 19.00 0.00	21.00 15.00 0.00	19.00 0.00 0.00	0.00 0.00 0.00	43.00 0015-0
3.00	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0016-0
4.00	20.00 7.00	16.00 21.00 0.00	13.00 0.00 0.00	11.00 61.00 0.00	0.00 0.00 0.00	8.00 15.00 0.00	48.00 9.00 0.00	35.00 0.00 0.00	0.00 0.00 7.00	36.00 0017-0

	u	v	a	b	c	d	e	f	g	Sample
	h	i	j	k	l	m	n	o		
	p	q	r	s	t					
1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0014-0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00	23.00	12.00	46.00	34.00	15.00	30.00	33.00	29.00	34.00	0015-0
	73.00	0.00	0.00	57.00	27.00	0.00	38.00	32.00		
	14.00	25.00	31.00	32.00	16.00					
3.00	35.00	12.00	18.00	9.00	4.00	4.00	4.00	5.00	0.00	0016-0
	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00	0.00	0.00					
4.00	18.00	11.00	47.00	34.00	14.00	22.00	24.00	23.00	0.00	0017-0
	59.00	0.00	0.00	41.00	18.00	0.00	19.00	14.00		
	3.00	11.00	12.00	12.00	9.00					

Table 5H: Raw GCMS monoaromatic sterane data (peak height) for Well OILS

	a1	b1	c1	d1	e1	f1	g1	h1	i1	Sample
1.00	15.00	20.00	9.00	8.00	13.00	0.00	11.00	39.00	3.00	0014-0
2.00	55.00	50.00	35.00	32.00	50.00	14.00	48.00	36.00	11.00	0015-0
3.00	40.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0016-0
4.00	53.00	36.00	19.00	17.00	19.00	0.00	19.00	12.00	4.00	0017-0

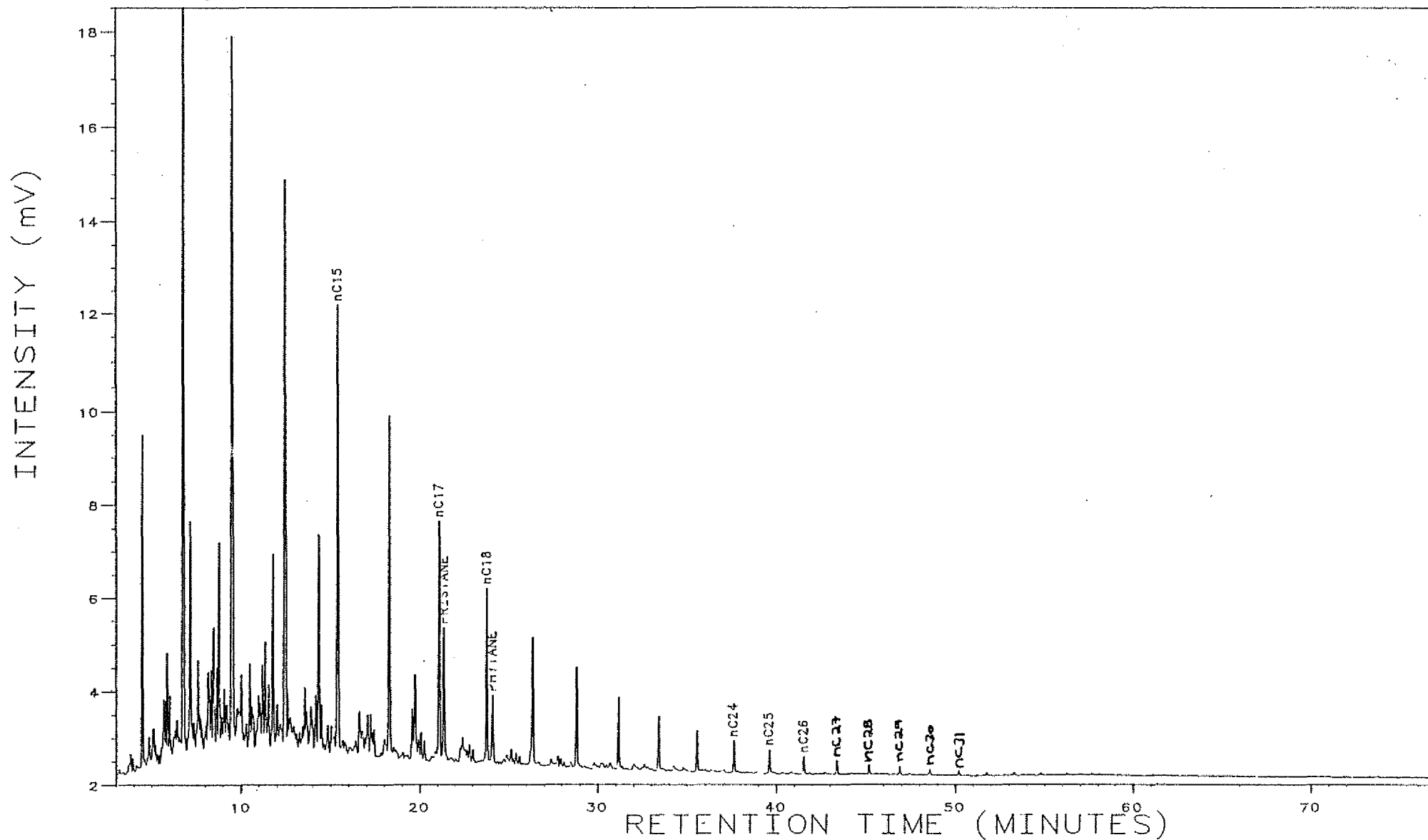
Table 5I: Raw GCMS trioaromatic sterane data (peak height) for Well OILS

	a1	b1	c1	d1	e1	f1	g1	Sample
1.00	15.00	17.00	0.00	25.00	15.00	8.00	0.00	0014-0
2.00	35.00	35.00	19.00	74.00	42.00	36.00	38.00	0015-0
3.00	15.00	7.00	0.00	0.00	0.00	0.00	0.00	0016-0
4.00	48.00	42.00	18.00	41.00	30.00	20.00	26.00	0017-0

Analysis SA30610

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30/6-10, DST2, SAT



NOCS 30/6-10
SATURATED GC

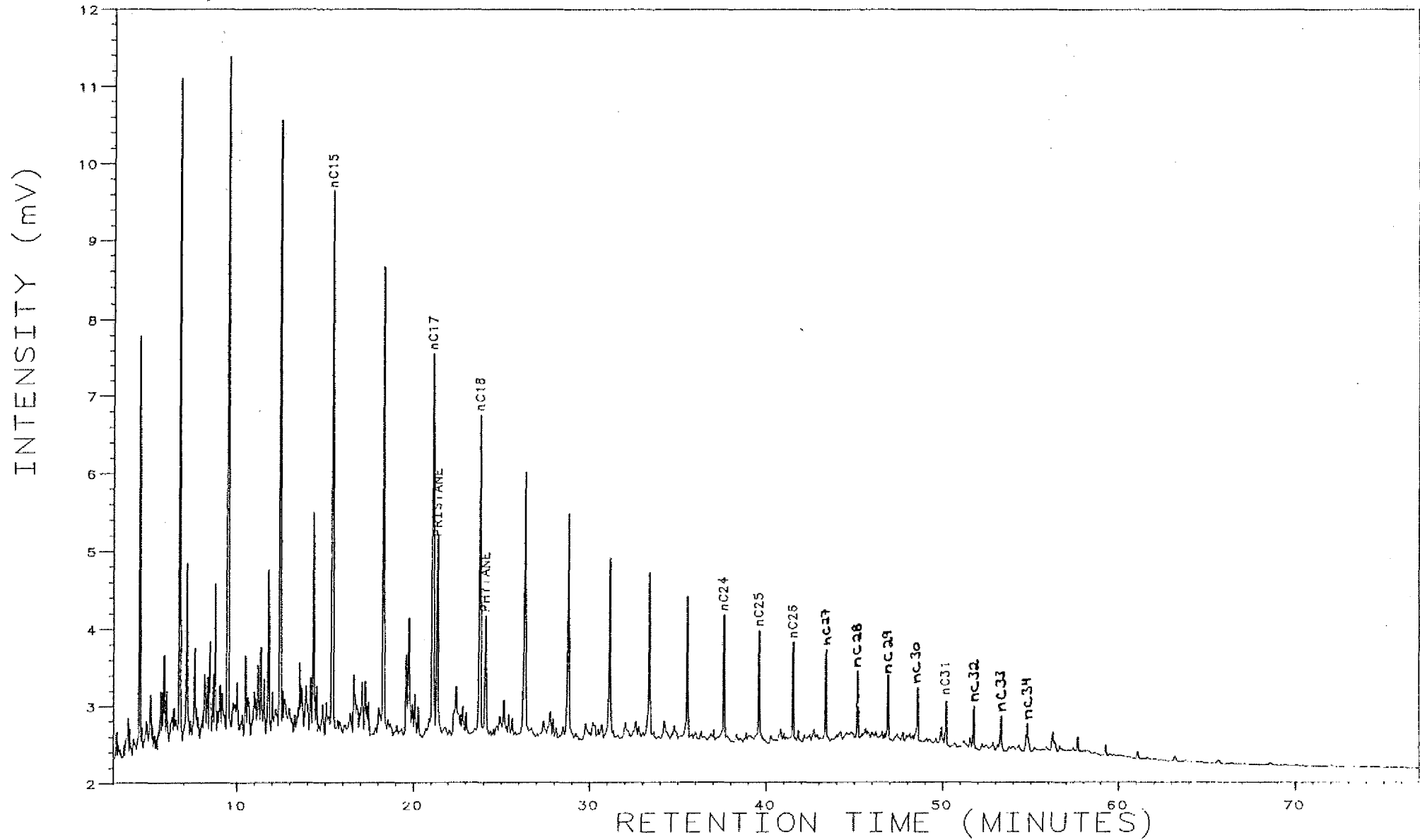
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DST 2

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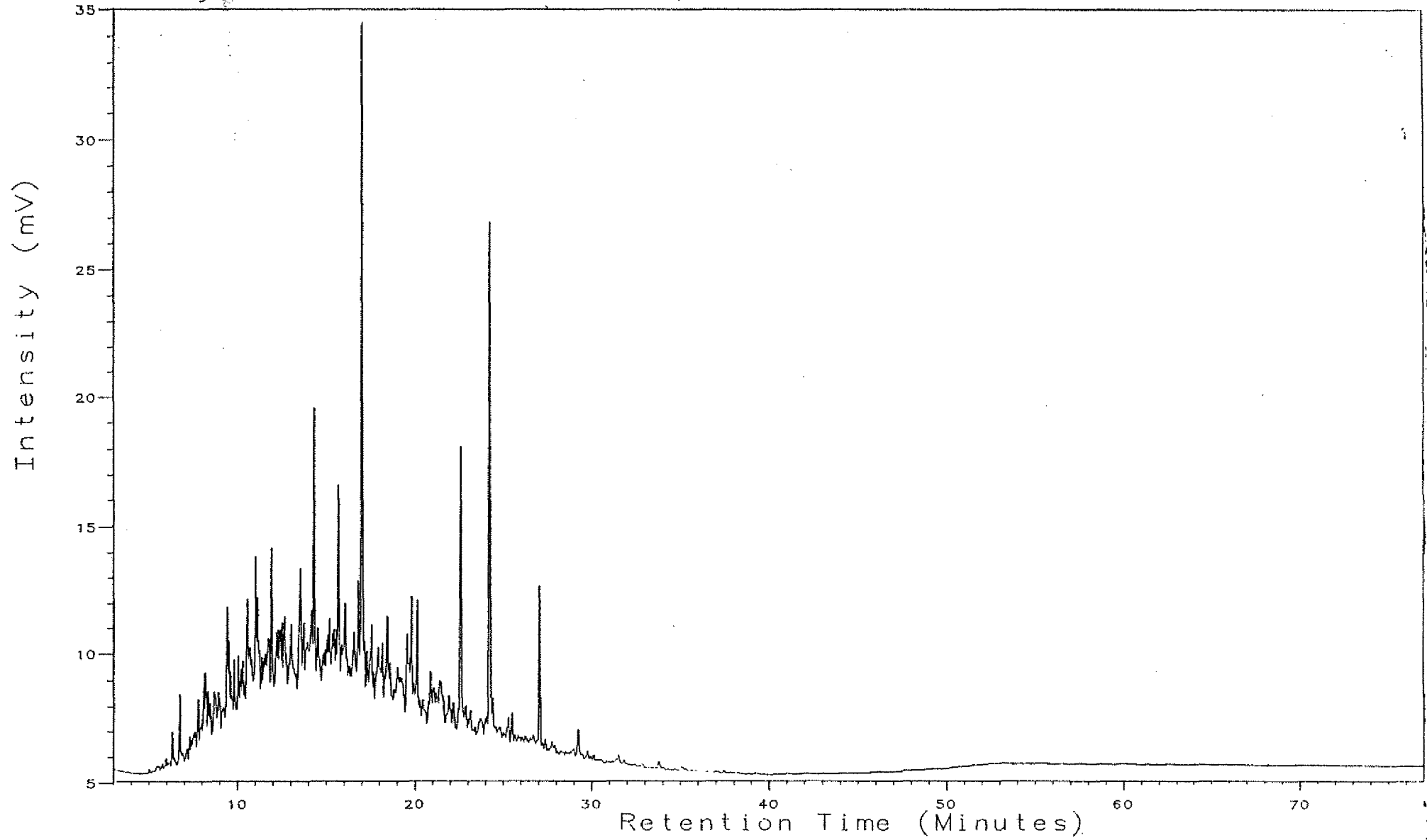
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DST 2

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GEOCHEMICAL LABORATORIES OF NORWAY AS

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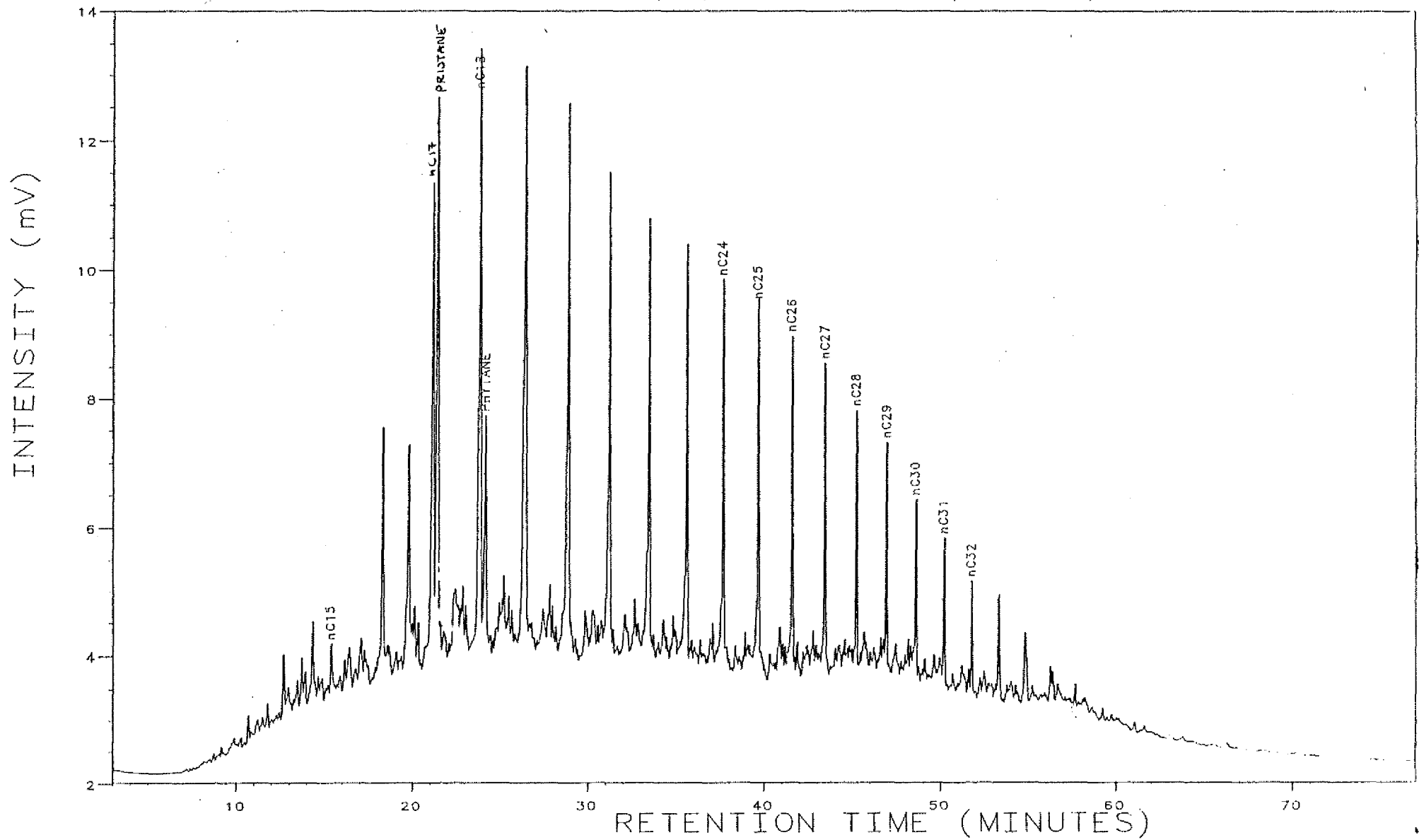
NOCS N.O.FRIGG
SATURATED GC

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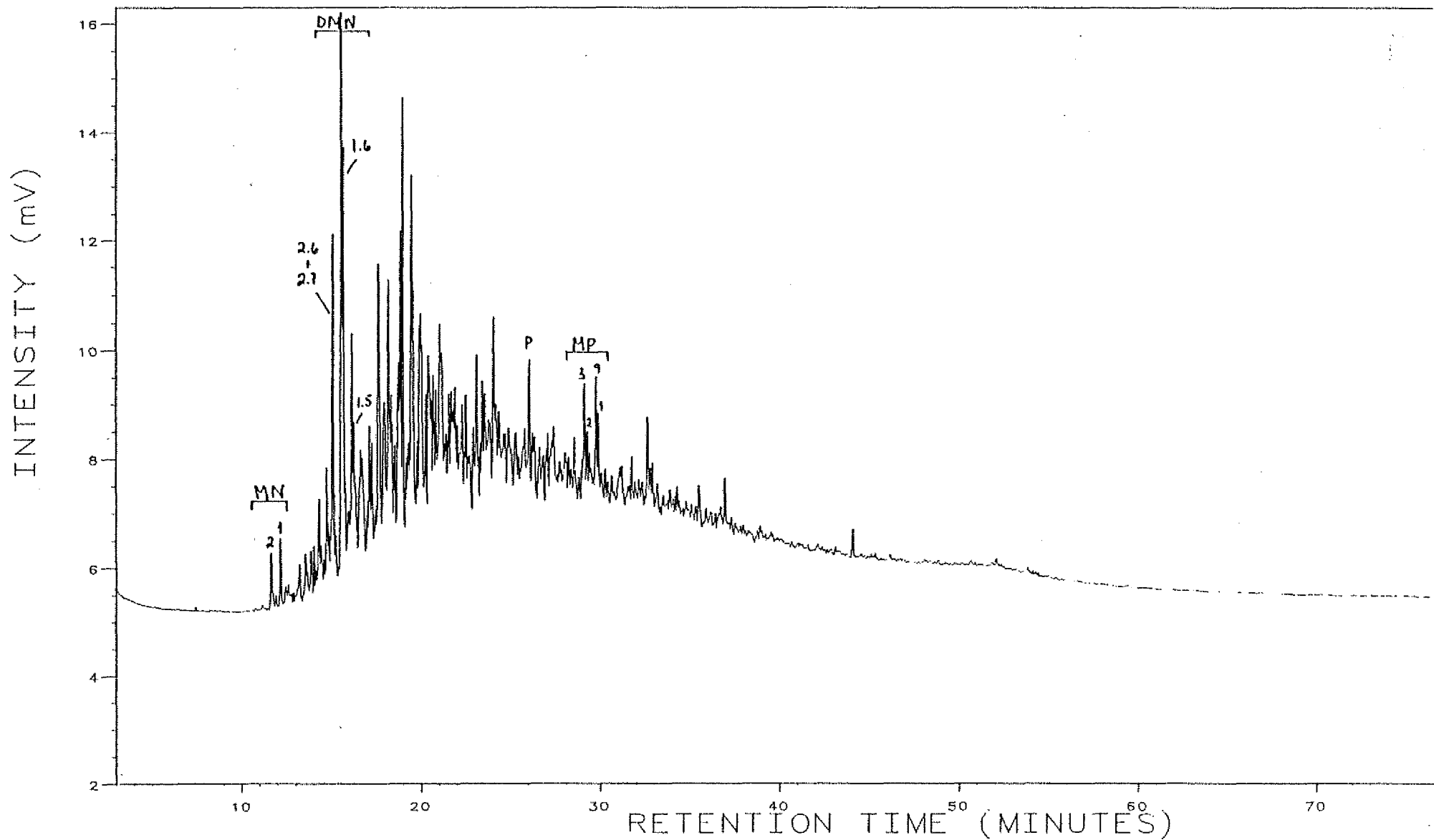


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SATURATED GC

Analysis AR30610

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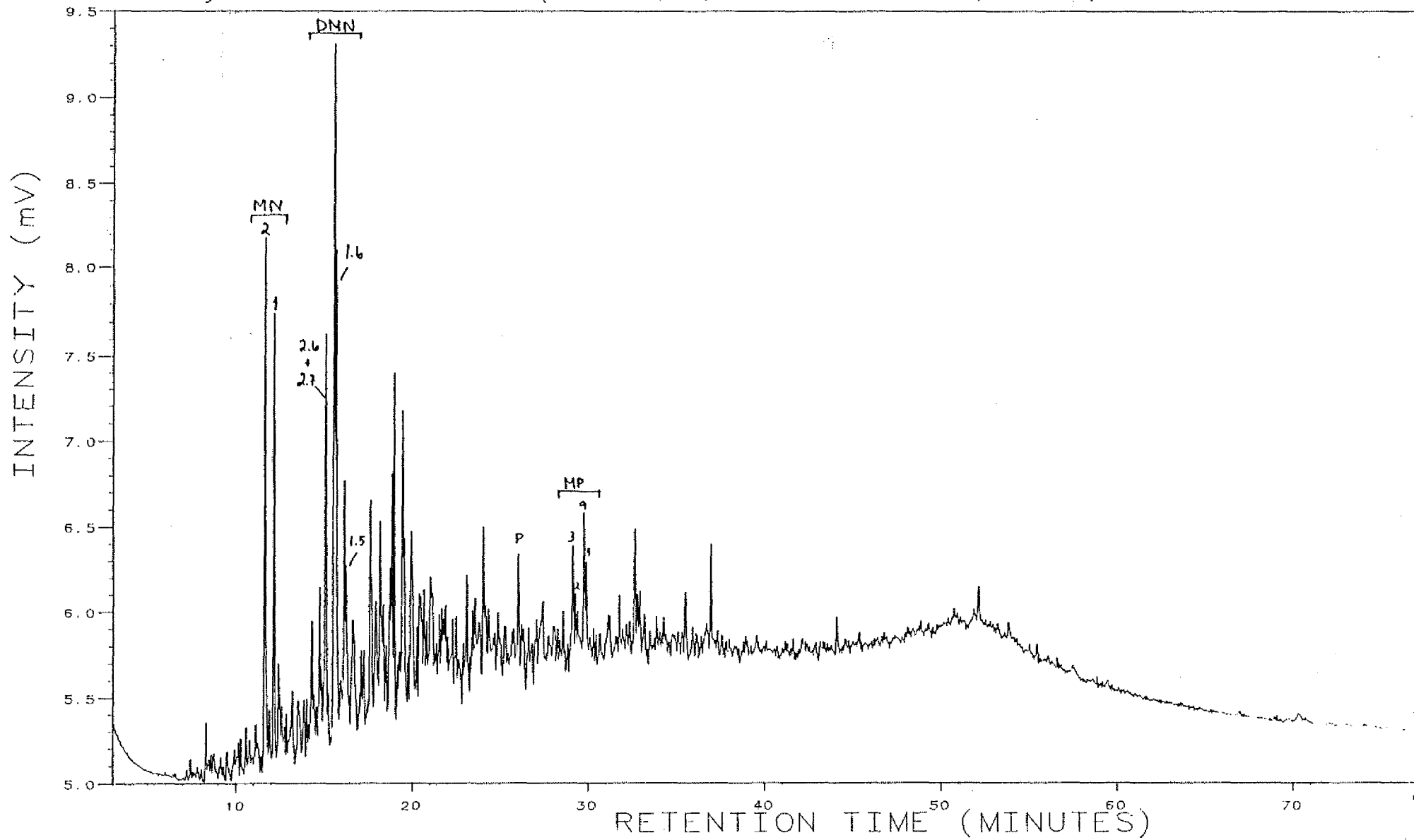


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AROMATIC GC (FID)

Analysis AR30613

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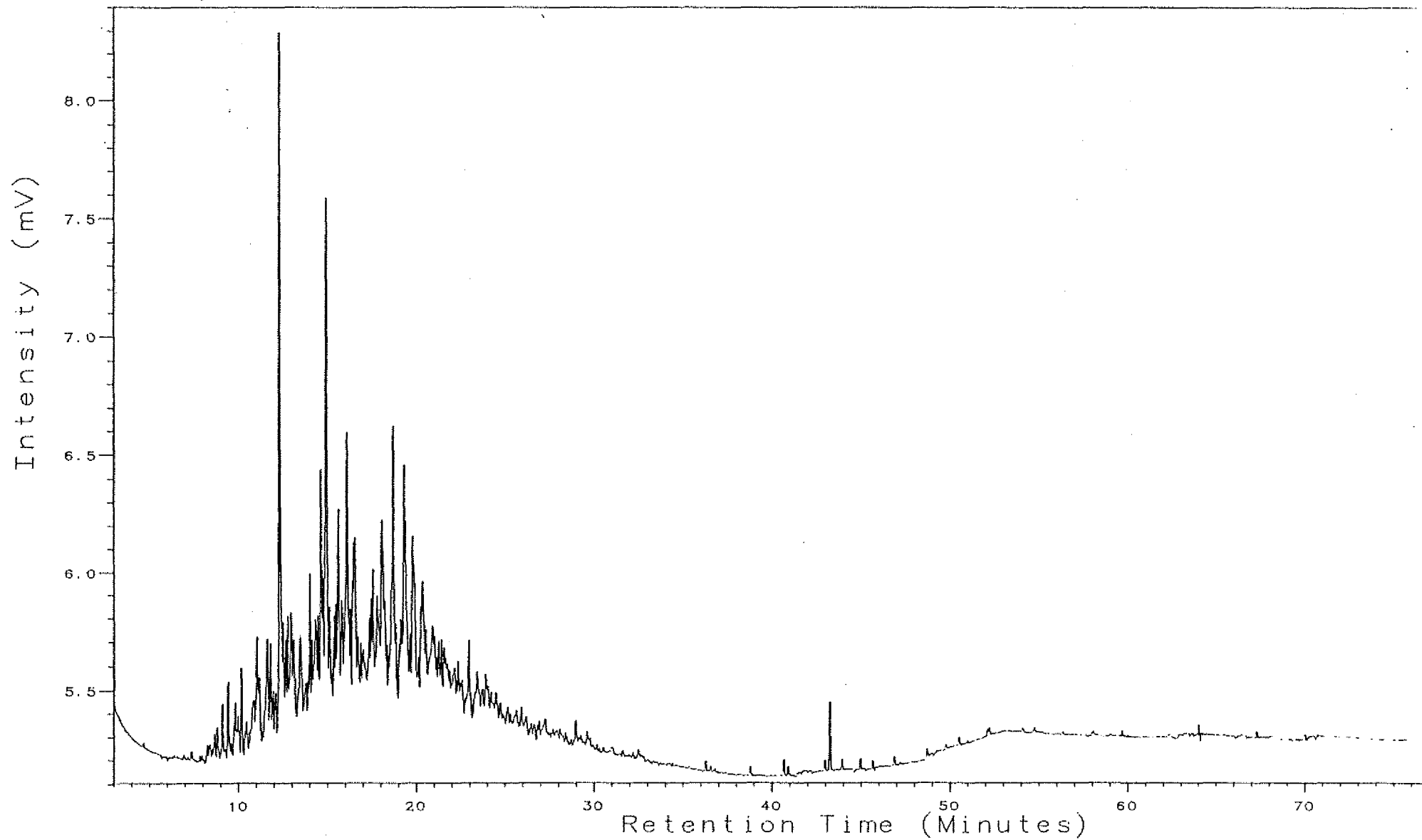


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Analysis SA200NOF

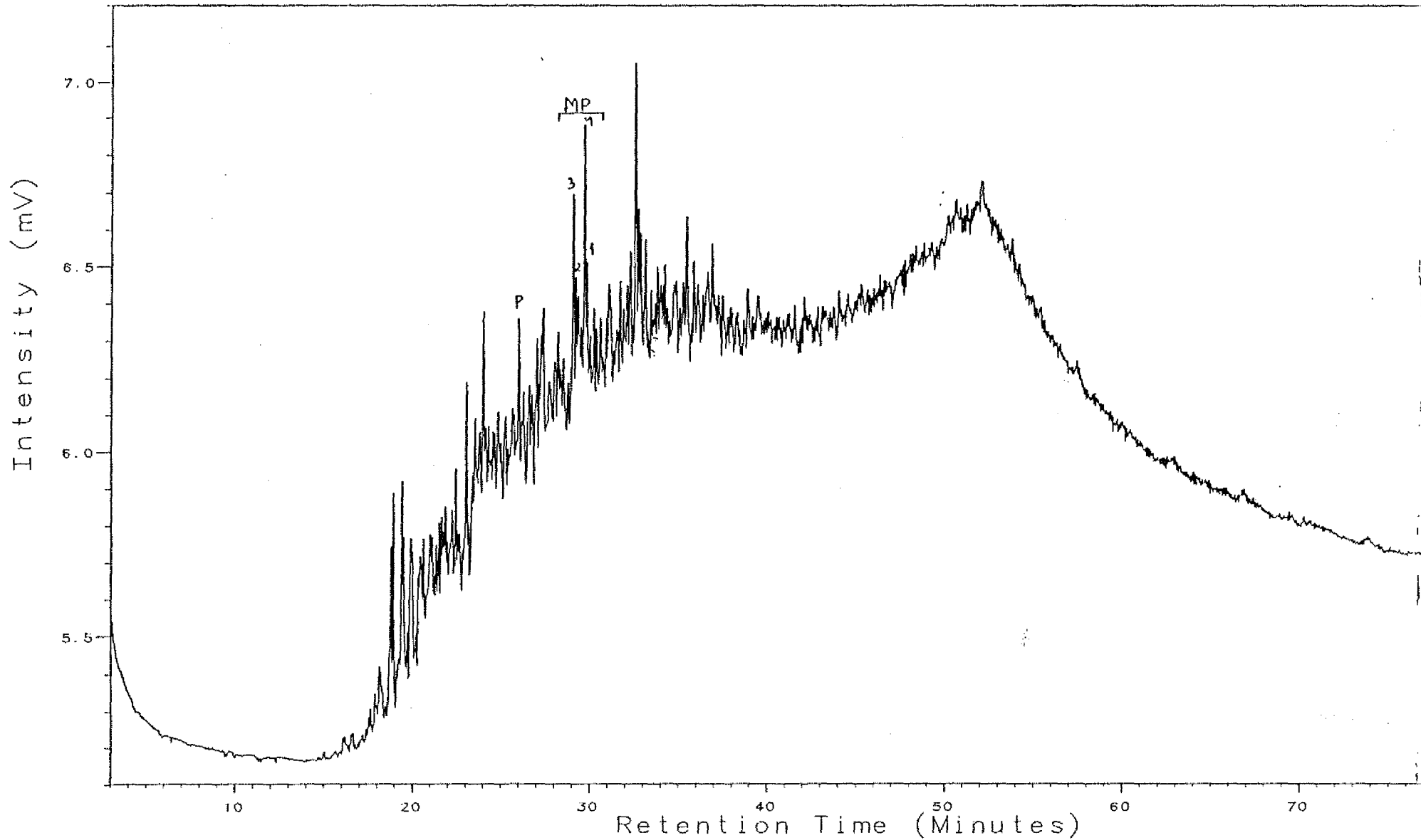
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NORD ØST FRIGG



NOCS NORD ØST FRIGG

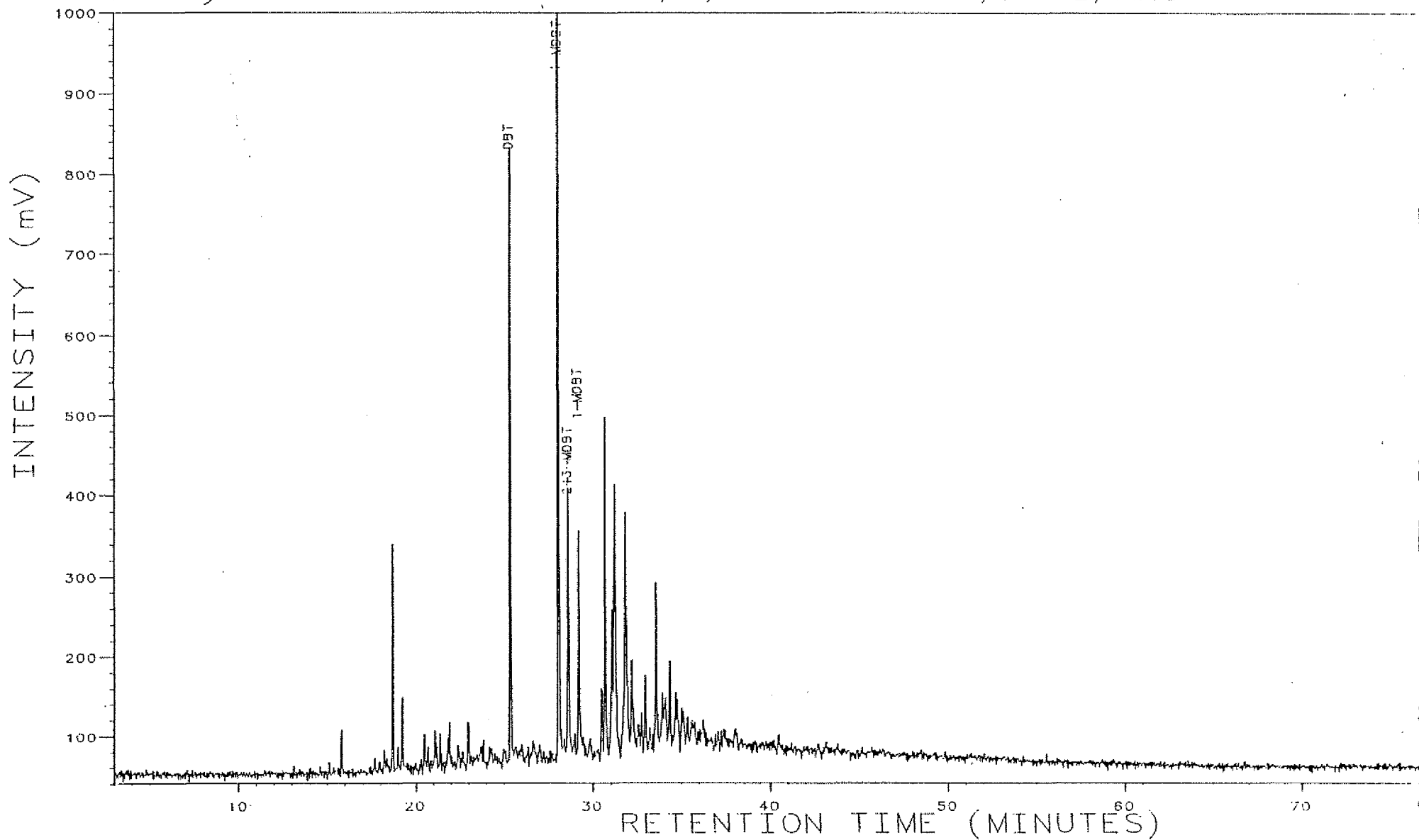
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Analysis AR30610

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30/6-10, DST2, ARO

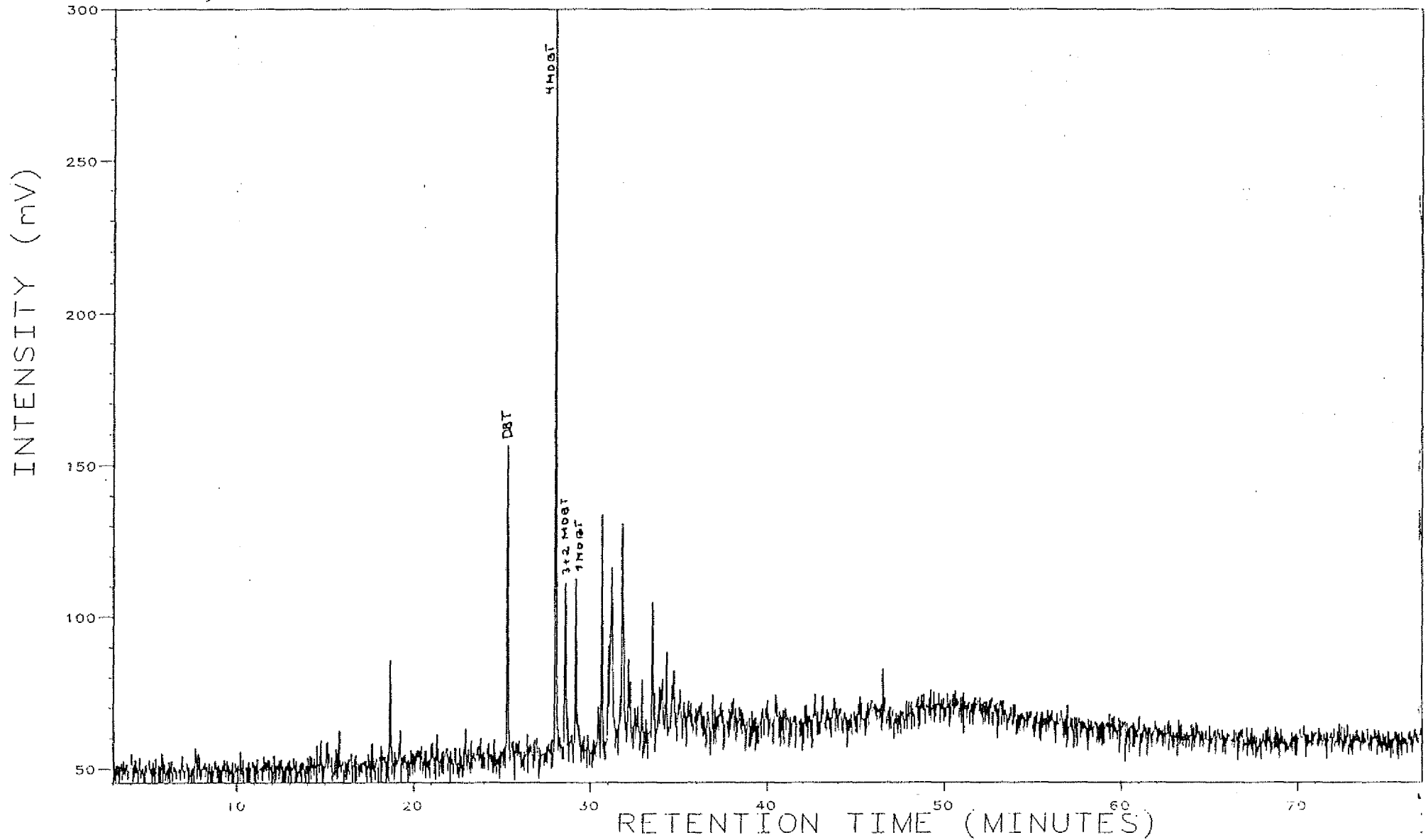


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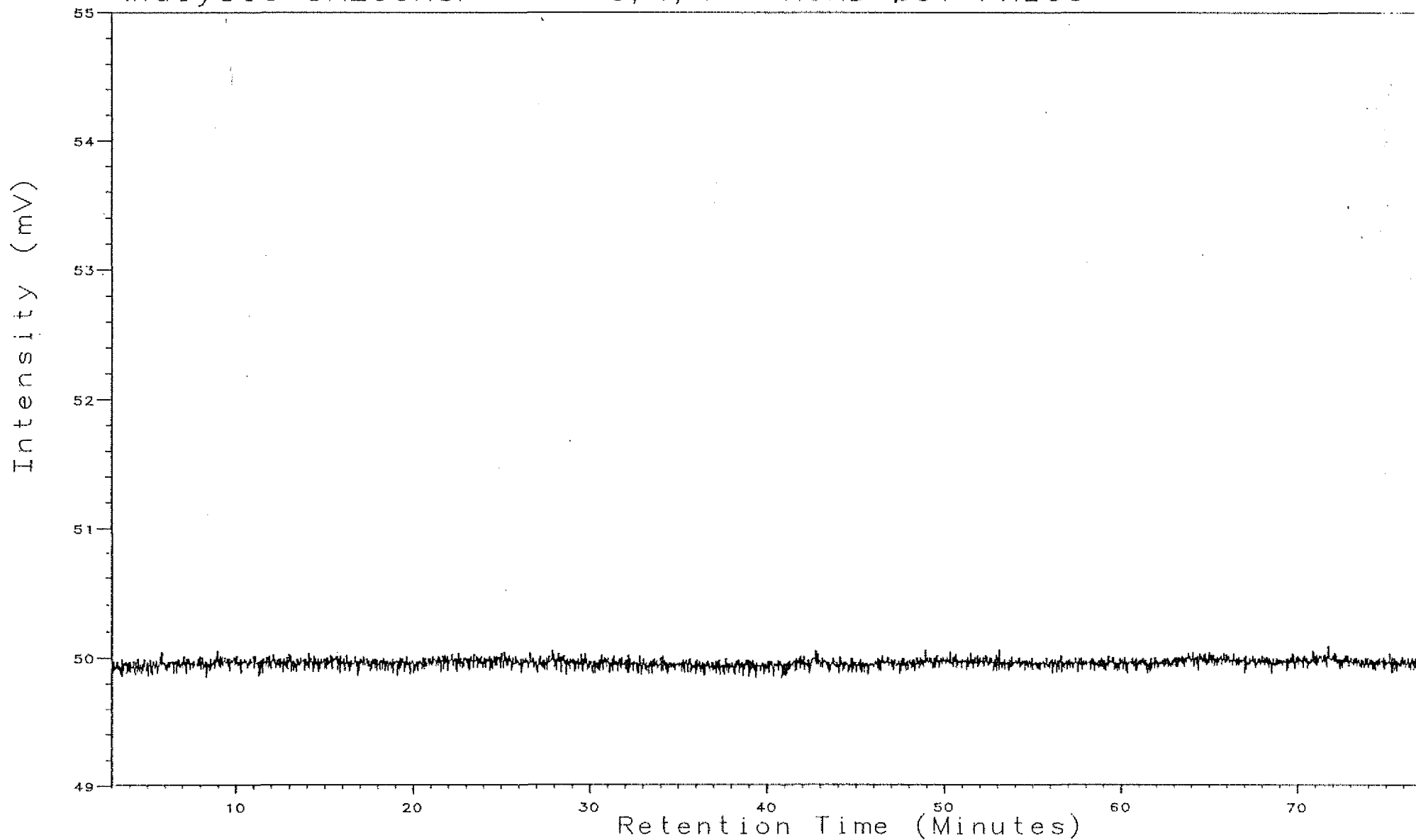


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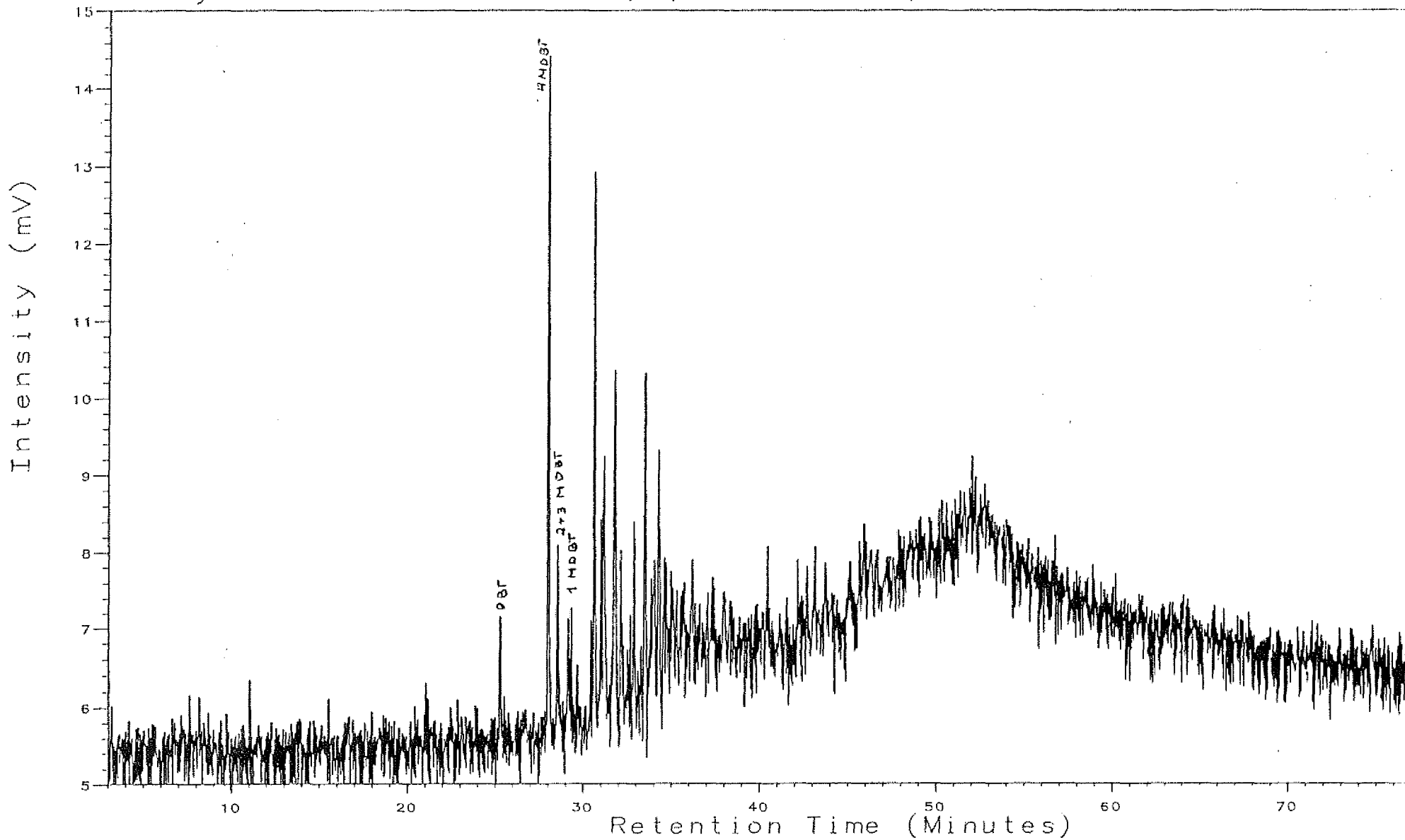
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NORD ØST FRIGG



NOCS NORD ØST FRIGG

AROMATIC GC (FPD)



NOCS 25/1-1 FRIGG
AROMATIC GC (FPD)