

# GEOCHEMICAL DATA REPORT

WELL 30/4-1

ID: 01015103

## GEOLOGICAL TOPS

WELL 30/4-1

	Depth m (RKB)
Nordland Group	
Hordaland Group	1262 (?)
Rogaland Group	1919
Balder Fm	1919
Sele Fm	1969
Montrose Group	2011
Heimdal Fm	2144
Shetland Group	2232
Cromer Knoll Group	4061
Viking Group	4387
Draupne Fm	4387
Heather Fm	
Brent Group	5181
Tarbert Fm	5181
Ness Fm	5223
Etive Fm	5358
Rannoch Fm	5373
Broom Fm	5397
Dunlin Group	5400
Drake Fm	5400

TD = 5454

Well File W-3793



# Lithology and Total Organic Carbon measurements

 TABLE NO.: 30/4-1  
 WELL NO.:

Sample	Depth (m)	TOC	Lithology
M-5664	1500	1.22	100% Claystone, grey (slightly brownish), grading to very silty and sandy Sm.am. Sandstone, light grey/clear
M-5667	1530	0.75	100% Claystone, grey to slightly brownish grey Sm.am. Limestone, white
M-5670	1560	0.80	100% Claystone, grey, slightly brownish grey, partly very silty/sandy Sm.am. Limestone
M-5673	1590	1.05 0.64	70% Claystone, brown-grey 25% Claystone, grey to light light and slightly greenish 5% Sand, clear, medium Sm.am. Limestone, white, grey
M-5676	1620	1.16 0.32	60% Claystone, brown-grey 35% Claystone, grey to light and greenish 5% Sandstone, medium - coarse, clear/light grey, completely cemented by silica, glauconitic
M-5679	1650	0.68	93% Claystone, grey to slightly brownish 7% Sandstone, hard, tight, light grey/clear Sm.am. Limestone, light yellow-brown; Dolomite/Siderite, hard, grey
M-5689	1680	0.68	75% Claystone, grey, brown-grey 17% Sand and Sandstone, light to clear, medium - very coarse, grading to well rounded, glauconitic in Sandstone 8% Dolomite/Siderite, as above, partly brownish



# Lithology and Total Organic Carbon measurements

TABLE NO.: 30/4-1  
WELL NO.:

Sample	Depth (m)	TOC	Lithology
M-5692	1710	0.55	90% Claystone, grey grading to light and brownish 10% Sand, medium to very coarse, mainly subrounded/rounded
M-5695	1740	0.46	95% Claystone, as above 5% Limestone, white
M-5698	1770	0.52	84% Claystone, as above 7% Sand, glauconitic 7% Limestone
M-5701	1800	0.72	80% Claystone, grey grading to light and brownish 20% Sand, coarse - very coarse, subangular - rounded, light to clear Sm.am. Siderite/Dolomite
M-5704	1830	0.62	85% Claystone, grey grading to light, brown-grey 15% Silica-cemented Sandstone, hard/light, grey, and Sand Sm.am. Limestone, white; Siderite/Dolomite
M-5707	1860	0.44	83% Claystone, grey grading to brownish and light 5% Sand/Sandstone 10% Limestone, white, grey
M-5711	1890	0.38	100% Claystone, grey to greenish light grey and brownish Sm.am. Claystone, red-brown; Sand/Sandstone; Limestone



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-5714	1920	0.59	100% Claystone, grey to greenish, some brownish, obs. red-brown
M-5719	1951	0.91 0.20	40% Claystone, brownish grey to grey 60% Claystone, greenish grey to light Sm.am. Claystone, dark grey/black; light Limestone; brown ? Siderite
M-5728	1978	0.55	100% Claystone, grey to light greenish and brownish grey Sm.am. Limestone; Siderite; Sand
M-5739	2011	1.15	100% Claystone, grey to light green and brownish, some dark grey
M-5748	2038	0.20 1.17	55% Claystone, greenish grey (light) to grey 30% Claystone, grading to very silty, mottled, tuffaceous, dark grey/black to grey, some fissile 10% Claystone, brownish grey Sand and Sandstone, angular, glassy, pyritic Sm.am. Claystone, red-brown; Siderite
M-5758	2068	0.58	100% Claystone, grey to greenish and light, brownish
M-5769	2105	0.50	100% Claystone, as above, sm.am. dark grey/black shaly Sm.am. Sandstone; Siderite, brown



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-5774	2130	0.53	75% Claystone, grey (light) to greenish 10% Claystone, brownish grey 15% Sand, medium - coarse, clear
M-5780	2160	0.48	40% Claystone, grey - greenish 60% Sand, clear, fine - coarse, subangular to rounded
M-5786	2190	0.38	90% Claystone, greenish grey, 5% Claystone, dark grey 5% Sand Sm.am. Coaly particles
M-5792	2220	0.48	80% Claystone, grey to greenish and light 20% Sand Sm.am. Coaly particles, black
M-5797	2250	0.47	95% Claystone, grey, grading to greenish and light grey 5% Sand
M-5803	2280	0.54	100% Claystone, as above Sm.am. Limestone, brownish light grey, white
M-5809	2310	0.57	97% Claystone, grey, greenish partly some calcareous 5% Limestone, white, yellow-brown, hard Sm.am. Claystone, dark grey/black
M-5815	2340		95% Claystone, grey to greenish, occasionally white mottled and very silty, partly some calcareous 5% Limestone, white, yellow-brown, hard Sm.am. Claystone, dark grey/black



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology	
M-5821	2370	0.61	80%	Claystone, as above
			5%	Limestone, white to brownish
			15%	Sand, clear
			3%	Coaly particles (additive)
M-5827	2400	0.70	75%	Claystone, grey, greenish, occasionally mottled, partly some calcareous
			15%	red-brown, rusty additive
			10%	Sand
M-5833	2430	0.75	95%	Claystone, as above
			5%	Rusty additive
M-5862	2460	0.93	100%	Claystone, grey, calcareous
M-5868	2490	1.52	100%	Claystone, as above
M-5873	2515	0.83	90%	Claystone, grey, occasionally some calcareous
			10%	Siderite, brown; Limestone, white
M-5881	2555	0.76	92%	Claystone, as above
			5%	Siderite, brown
			3%	Limestone, white
M-5887	2585	0.56	60%	Claystone, grey, greenish grey, occasionally some calcareous
		0.93	40%	Limestone, white
			Sm.am.	Siderite
M-5892	2610	0.63	75%	Claystone, as above
			15%	Limestone
			10%	Sand



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-5899	2645	0.54	90% Claystone, as above 10% Limestone, white Sm.am. Siderite
M-5904	2670	0.52	75% Claystone, grey, silty 25% Sand Sm.am. Limestone
M-5910	2700	0.65	95% Claystone, grey, grading to very silty 5% Limestone and Siderite
M-5916	2730	0.52	90% Claystone, as above 10% Limestone, white Sm.am. Siderite
M-5922	2760	0.46	95% Claystone, as above 5% Limestone; Marl; Siderite
M-5928	2790	0.44	100% Claystone, as above, some greenish
M-5934	2820	0.46	100% Claystone, as above Sm.am. Siderite and Limestone
M-5939	2845	0.50	100% Claystone, grey, some grading to light grey Marl, grading to very silty
M-5946	2880	0.50	100% Claystone, grading to very silty, grey, sm.am. red-brown Sm.am. white rack with abundant spherites and silt; Siderite



# Lithology and Total Organic Carbon measurements

TABLE NO.: 30/4-1  
WELL NO.:

Sample	Depth (m)	TOC	Lithology
M-5952	2910	0.59	100% Claystone, as above, and dark grey altered by turbodrill
M-5958	2940	0.68	100% Claystone, dark grey to black turbodrilled and grey, silty to very silty
M-5964	2970	0.77	100% Claystone, as above Sm.am. Sand
M-5970	3000	0.77	85% Claystone, as above 15% Coal, black, shiny, additive Sm.am. Sand
M-5976	3030	0.63	93% Claystone, grey to dark grey, deformed by turbodrill 7% Coal, black
M-5982	3060	0.65	93% Claystone, grey, some deformed by turbodrill 7% Coal (additive)
M-5988	3090	1.74	50% Claystone, silty to very silty, grey 50% Coal, black (additive) Sm.am. Limestone, white; Sand, clear
M-5994	3120	0.54	100% Claystone, as above, some deformation due to turbodrill





# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6000	3150	0.66	100% Claystone, as above Sm.am. Limestone, grey-white, with spherules
M-6006	3180	0.59	100% Claystone, dark grey turbodrilled and some grey to greenish, grading to very silty Sm.am. Limestone, white
M-6012	3210	0.70	100% Claystone, as above
M-6018	3240	0.93	100% Claystone, as above Sm.am. Limestone
M-6024	3270	0.70	100% Claystone, grey to dark grey, deformed by turbodrill Sm.am. Marl, light grey
M-6030	3300	0.69	100% Claystone, as above
M-6036	3330	0.66	100% Claystone, as above, completely altered by turbodrill
M-6042	3360	0.59	100% Claystone, light grey to grey, some dark, completely altered by turbodrill, some calcareous
M-6048	3390	0.60	100% Claystone, as above
M-6054	3420	0.67	100% Claystone, as above



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6060	3450	0.56	100% Claystone, grey to light grey, some dark, as above, laminated
M-6066	3480	0.87	100% Claystone, as above
M-6072	3510	0.55	100% Claystone, as above, completely altered by turbodrill
M-6074	3520	0.63	100% Claystone, as above Sm.am. Siltstone, light brownish grey, calcareous
M-6076	3530	0.62	100% Claystone, as above Sm.am. Limestone, brown-white
M-6078	3540	0.58	100% Claystone, as above, laminated
M-6080	3550	0.69	100% Claystone, as above Sm.am. Limestone, light brown
M-6082	3560	0.60	100% Claystone, as above Sm.am. Siderite, brown; Limestone, light brown; Coal, black
M-6084	3570	0.61	100% Claystone, as above Sm.am. Siderite
M-6086	3580	0.61	100% Claystone, as above Sm.am. Pyrite



# Lithology and Total Organic Carbon measurements

TABLE NO.: 30/4-1  
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Sample	Depth (m)	TOC	Lithology
M-6088	3590	0.51	75% Claystone, silty, grey 5% Limestone, brownish - pinkish white Sm.am. Marl, light grey/white 20% Additives and Cement
M-6090	3600	0.49	90% Claystone, grey, some greenish and red-brown, non-calcareous - calcareous 10% Marl, light grey, silty Sm.am. Limestone, white to brownish
M-6092	3610	0.51	70% Claystone, grey grading to dark, partly some calcareous 15% Marl, light grey 15% Limestone, white (brownish), occasionally sandy
M-6094	3620	0.44 0.63	80% Marl, light grey to grey, silty 20% Claystone, grey to dark grey, sm.am. red-brown and green, some calcareous Sm.am. Limestone
M-6096	3630	0.39 0.65	50% Marl, as above 50% Claystone, as above Sm.am. Limestone, pinkish; Siderite
M-6098	3640	0.56	100% Claystone, grey to dark grey, partly altered by turbodrill, some calcareous Sm.am. Limestone, white to brownish
M-6100	3650	0.56	100% Claystone, as above, but mostly affected by turbodrill, some green Sm.am. Marl



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6102	3660	0.60	100% Claystone, as above, but completely altered by turbodrill
M-6104	3670	0.65	100% Claystone, as above Sm.am. Limestone, white
M-6106	3680	0.69	100% Claystone, as above, sm.am. green
M-6108	3690	0.69	100% Claystone, as above, sm.am. green
M-6110	3700	0.71	100% Claystone, as above Sm.am. Marl, light grey
M-6112	3710	0.80	100% Claystone, light to dark grey, rare black, but completely altered by turbo-drill, partly some calcareous
M-6114	3720	0.62	100% Claystone, as above, but mostly turbodrill affected Sm.am. Limestone, brown
M-6116	3730	0.57	100% Claystone, light grey - grey, almost completely altered by turbodrill, some calcareous
M-6118	3740	0.64	100% Claystone, as above, sm.am. non-altered grey and some green
M-6120	3750	0.61	95% Claystone, as above, occasionally black 5% Claystone, not turbo-affected, caved, grey, green
M-6122	3760	0.64	85% Claystone, as above, turbo
		0.62	15% Claystone, as above



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6124	3770	0.63	60% Claystone, as above, turbo
		0.64	40% Claystone, grey to dark grey, green, obs. red-brown, not affected by turbo Sm.am. Siderite and Limestone; black Claystone
M-6126	3780	0.54	70% Claystone, as above, turbo
		1.16	30% Claystone, grey, green, partly some calcareous Sm.am. Claystone, black
M-6128	3790	0.65	75% Claystone, turbo-affected, as above
		0.64	25% Claystone, grey grading to dark, some greenish, partly some calcareous Sm.am. Claystone, black
M-6130	3800	0.55	85% Claystone, turbo affected, as above
		0.70	15% Claystone, grey, some greenish as above, some very dark grey (black)
M-6132	3810	0.63	60% Claystone, turbo-affected, as above
		0.54	40% Claystone, grey, some greenish, as above
M-6134	3820		40% Claystone, light grey/grey, turbo as above
		0.71	60% Claystone, grey grading to dark grey, some green as above Sm.am. Claystone, black
M-6136	3830		20% Claystone, turbo-affected, as above
		0.62	75% Claystone, grey, some light sandy
		2.25	5% Claystone, dark grey/black



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6138	3840	0.62	85% Claystone, turbo-affected, as above 15% Claystone, grey, partly some calcareous, some grading to dark
M-6140	3850	0.57 0.60	50% Claystone, as above, turbo 50% Claystone, grey, as above
M-6142	3860	0.57	20% Claystone, turbo-affected, as above 80% Claystone, grey as above Sm.am. Limestone, light brownish grey; dark grey Claystone
M-6144	3870	0.62	50% Claystone, turbo-affected, as above 50% Claystone, grey, some greenish and dark grey to black
M-6146	3880	0.52	100% Claystone, turbo-affected, (60%) as above, and grey, dark and greenish (40%) Sm.am. Limestone
M-6148	3890	0.54	50% Claystone, turbo-affected, as above 50% Claystone, grey - dark, some greenish as above Sm.am. Siderite/Calcite, brown; Claystone, black, shaly
M-6150	3900	0.56	100% Claystones, as above (very small sample)
M-6152	3910	1.16	95% Claystones as above 5% Limestone, brownish white (very small sample, contaminated by additives, nut shells)



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6154	3920	0.68	90% Claystone, grey some grading to dark 10% Claystone, turbo-affected Sm.am. Limestone to Siderite, yellowish
M-6156	3930	0.69	90% Claystone, grey 10% Marl, light grey
M-6158	3940	0.76	100% Claystone, grey to dark grey, occasionally some calcareous Sm.am. Marl; Limestone; white
M-6160	3950	0.68	100% Claystone, as above
M-6162	3960	0.70	100% Claystone, as above
M-6164	3970	0.89	100% Claystone, as above
M-6166	3980	0.84	100% Claystone, grey/dark grey, mostly turbodrill-affected
M-6168	3990	0.66 0.62	60% Claystone, turbo-affected as above 40% Claystone, grey to dark grey as above
M-6170	4000	0.64	100% Claystone, grey to dark grey, some grading to black, some turbo-affected
M-6172	4010	0.65	100% Claystone, altered by turbodrilling, grey to light and dark, some (15%) not affected
M-6174	4020	0.65 0.70	70% Claystone, turbo-affected, as above 30% Claystone, grey, some dark grey



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6176	4030	1.04	50% Claystone, turbo-affected, as above
		0.77	50% Claystone, grey, some dark, as above Sm.am. Claystone, black
M-6178	4040	1.02	15% Claystone, turbo-affected, as above 85% Claystone, grey grading to dark grey Sm.am. Claystone, black
M-6180	4050	1.38	90% Claystone, grey
		1.53	10% Claystone, dark grey to black, as lamina in grey Claystone
M-6182	4060	0.74	80% Claystone, grey grading to dark
		1.70	20% Claystone, dark grey to black, some fissile
M-6184	4070	0.55	90% Claystone, grey, grading to dark 10% Claystone, dark grey to black
M-6186	4080		50% Claystone, grey to dark grey
			50% Cement (very small sample)
M-6188	4082	0.86	55% Claystone, as above
			45% Cement, light grey/white
			5% Coal (additive), black
M-6190	4088	0.93	60% Claystone, dark grey to grey and black
			30% Cement
			10% Coal, additive
M-6194	4100	0.78	92% Claystone, grey, grading to dark, slightly brownish
			5% Shale, black
			3% Coal





# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6198	4112	0.81  35.07	70% Claystone, dark grey, grey 20% Cement, light grey 10% Coal
M-6201	4121	1.03  36.37	85% Claystone, grey to dark grey, slightly brownish 15% Coal Sm.am. Claystone/Shale, black
M-6204	4130	0.83  41.31	40% Claystone, dark grey to grey, occasionally black 35% Claystone, turbo-affected, light grey/grey 25% Coal, additive, black
M-6207	4139	0.54 22.97 <del>25.98</del>	90% Claystones, as above, but mainly turbodrill-affected 10% Coal
M-6211	4151	1.06  40.25	60% Claystone, grey to dark grey 15% Claystone, turbo-affected 25% Coal Additive
M-6214	4160	0.58  26.11	90% Claystone, completely turbo-affected, light to dark grey 10% Coal, additive
M-6217	4169	0.64 39.31	90% Claystone, as above 10% Coal
M-6221	4181	0.83 39.70	80% Claystone, mostly turbo-affected 20% Coal



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC		Lithology
M-6224	4190	0.54	95%	Claystone, as above
			5%	Coal
M-6227	4199	0.68	90%	Claystone, as above, but half turbo-affected
		37.44	10%	Coal
M-6230	4211	0.63	85%	Claystone, grey, dark brownish, some light grey, silty calcareous
			10%	Claystone, turbo-affected, as above
			5%	Coal
M-6234	4223	0.67	98%	Claystone, grey, some dark
			2%	Coal
M-6236	4229	0.74	97%	Claystone, grey to dark grey, some light calcareous, some turbo-affected
			3%	Coal
M-6240	4241	0.61	97%	Claystone, grey, some dark and light, some turbo-affected
			3%	Coal
M-6243	4250	0.63	100%	Claystone, grey, some dark and light calcareous, partly turbo-affected
			Sm.am.	Coal
M-6246	4259	0.64	97%	Claystone, as above
			3%	Coal
M-6251	4274	0.60	95%	Claystone, grey, partly turbo-affected
			5%	Coal



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC		Lithology
M-6253	4280	0.62 39.09	90% 10%	Claystone, grey, largely turbo-affected Coal
M-6256	4289	0.63 42.63	85% 15%	Claystone, grey, some light (calcareous), and dark, largely turbo-affected Coal, additive, black
M-6259	4298	0.71 43.63	85% 15%	Claystone, grey, light grey (calcareous), partly turbo-affected Coal
M-6262	4310	1.11 38.27	85% 15%	Claystone, some turbo-affected, grey, some light calcareous Coal
M-6266	4322	0.59	70% 25% 5%	Claystone, grey, some dark and light, obs. black shaly Claystone, turbo-affected Coal
M-6268	4328	0.55	97% 3%	Claystone, partly some calcareous, grey, some grading to light Coal
M-6272	4340	0.52 43.87	80% 20%	Claystone, mostly turbo-affected Coal, additive
M-6275	4349		98% 2%	Claystone, grey, some light Coal additive
M-6279	4360		95% 5%	Claystone, as above Coal additive



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6282	4370	0.75	85% Claystone, grey, some dark grey, light calcareous
		40.55	15% Coal additive
M-6285	4379	0.60	90% Claystone, grey some calcareous, some light grey calcareous, some dark grey (some turbo-affected)
		38.74	10% Coal additive
M-6289	4391	0.65	85% Claystone, grey grading light and dark, (non-calcareous), some calcareous
			3% Claystone, very dark grey
		45.77	15% Coal additive
M-6292	4400	0.57	87% Claystone, grey, grading to light grey, some calcareous
M-6295	4409	0.56	95% Claystone, grey variably silty with light grey, very silty parts or lamina, calcareous, obs. bluish light grey, very pyritic
		9.09	5% Coal additive and ligno-sulphonate.
			Sm.am. Claystone, dark grey
M-6299	4421	0.70	75% Claystone, grey to light grey, variably silty and calcareous
		5.50	25% Coal and ligno-sulphonate, dark grey - black, additive
			Sm.am. Claystone, very dark grey
M-6302	4430	0.63	100% Claystone, grey, some light grey silty, very slightly calcareous to calcareous Sm.am. Coal additives



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6304	4439	0.61	100% Claystone, as above Sm.am. Claystone, dark grey
M-6308	4451	0.67	75% Claystone, grey and light/white as above
		<del>3.88</del>	25% Ligno-sulphonate, dark grey - black
M-6311	4460	0.62	100% Claystone, as above Sm.am. Claystone, very dark grey; Ligno-sulphonate; ?Siderite
M-6314	4469	0.66	95% Claystone, grey, grading to very light grey lamina, very slightly calcareous to calcareous
		4.57	5% Ligno-sulphonate; very dark grey Claystone
M-6318	4481	0.69	94% Claystone, as above
		9.33 (with 6321)	3% Coal and Ligno-sulphonate
			3% Claystone, very dark grey, grey-black
M-6321	4490	0.58	95% Claystone, grey to light grey, as above
		9.33 (with 6318)	5% Coal and Ligno-sulphonate
			Sm.am. Claystone, very dark
M-6324	4499	0.68	100% Claystone, grey to light grey (partly very silty), slightly calcareous to calcareous
M-6328	4511	0.65	95% Claystone, as above
		3.32	5% Coal and Ligno-sulphonate



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
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Sample	Depth (m)	TOC	Lithology
M-6331	4520	0.54	97% Claystone, as above
		3.71 (with 6334)	3% Black, hard material; very dark grey Silt/Clay-stone Sm.am. Limestone, hard, brown
M-6334	4529	0.62	98% Claystone, as above
		5.71 (with 6331)	2% Dark/black material
M-6338	4541	0.60	40% Claystone, light grey (whitish), (very silty), to grey
		2.22	60% Dark/black material, hard, calcareous ?carbonate/pyrite cemented Clay/Silt
			Sm.am. Limestone, hard, grey-brown
M-6342	4553	0.44	40% Silt/Claystone, light grey (whitish), very calcareous
		0.80	40% Claystone, grey, silty, some calcareous, grading to the other Claystone
		3.35	20% Dark/black material, as above
			Sm.am. Limestone, very hard, dark grey-brown
M-6345	4562	0.55	60% Claystone, grey to light as above
		0.66	15% Silt/Claystone, whitish light grey as above
		3.41	15% Dark/black material, as above
M-6348	4571	0.62	85% Claystone, grey to light grey (very silty/calcareous), some calcareous to very slightly calcareous
		2.21	15% Dark/black material, as above
M-6351	4580	0.56	85% Claystone, as above
		3.01	15% Dark/black material, hard, as above
			Sm.am. Limestone, brown, hard



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6354	4589	0.65 2.34	75% Claystone, as above 25% Silt/Claystone, very silty and micromicaceous, dark grey to greyish black
M-6357	4598	0.64	100% Claystone, grey to light grey as above Sm.am. Dark Claystone; Coal
M-6360	4610	0.62 →	85% Claystone, grey to light grey as above 15% Dark/black hard material, as above, and dark-black Clay/Siltstone Sm.am. Limestone, light yellow-grey; Pyrite
M-6363	4619	0.51	98% Claystone, grey to light grey as above, sm.am. dark grey, laminated 2% Black hard material and Coal Sm.am. Limestone, dark brown-grey; Pyrite
M-6367	4631	0.35 1.79	75% Claystone, as above 25% Silt/Claystone, dark grey-black, partly → carbonate - cemented? Sm.am. Limestone, dark brownish black; Coal
M-6370	4640	0.49  26.36 (with 6373)	85% Claystone, light grey - grey as above 12% Clay/Siltstone, dark grey/black, occasionally calcareous/carbonate-cemented, hard sometimes Sm.am. ?Sideritic Limestone, grey-brown; Pyrite 3% Coal



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6373	4649	0.58	77% Claystone, grey to light grey silty, variably calcareous to very slightly
		1.40	20% Silt/Claystone, dark grey/black, micromicaceous, brittle to hard and friable, occasionally slightly calcareous
		26.36 (with 6370)	3% Coal Sm.am. Siderite?, brown-grey; Pyrite
M-6377	4661	0.51	30% Claystone, light grey - grey, as above, silty
		2.43	70% Silt/Claystone, dark grey/black, dark brownish inclusions (sideritic?)
			Sm.am. ?Siderite, dark grey-brown; Coal, shiny
M-6380	4670	0.40	40% Claystone, light grey, silty
		0.59	20% Claystone, grey
		2.98	40% Silty Claystone, dark grey/black Sm.am. Pyrite
M-6383	4679	0.48	35% Claystone, light grey to grey, slightly to very calcareous
		2.10	65% Silt/Claystone, dark grey/black, turbodrill-affected, partly slightly calcareous
M-6387	4691	0.47	70% Claystone, light grey to grey, as above
		2.69	30% Silty Claystone, dark grey, black as above, hard Sm.am. Pyrite





# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6390	4700	0.56 2.12	70% Claystone, as above, light grey, grey 30% Silty Claystone, as above
M-6393	4709	0.54 2.22	65% Claystone, grey to light grey as above 35% Silty Claystone, dark grey/black, as above Sm.am. Pyrite; Coal
M-6396	4718	0.56 1.94	50% Claystone, light grey to grey, as above 50% Silty Claystone, dark grey/black as above, turbo-affected Sm.am. Coal; Pyrite
M-6399	4730	0.38 2.38	70% Claystone, grey to light grey, calcareous 30% Silty Claystone, dark grey/black Sm.am. Pyrite
M-6402	4739	0.48 2.01	70% Claystone, light grey to grey as above 30% Silty Claystone, dark grey/black, partly slightly calcareous, partly micromicaceous
M-6406	4751	0.52 2.19	60% Claystone, light grey to grey as above, calcareous to very calcareous 40% Silty Claystone, dark grey/black, ?small siderite - nodilic lamina
M-6409	4760	0.49 2.47	80% Claystone, as above, light grey, grey 20% Silty Claystone, dark grey/black



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6412	4769	0.47	30% Claystone, light grey (whitish), silty, very calcareous
		0.72	30% Claystone, grey, calcareous
		3.17	35% Silty Claystone, dark grey/black, as above 2% Siderite, light brown
M-6416	4781	0.52	70% Claystone, light grey to grey as above
		3.52	30% Silty Claystone, dark grey/black, as above, Additives (rubber)
M-6419	4790	0.53	20% Claystone, light grey/white, very calcareous, silty
		0.15	45% Claystone, grey, calcareous
		2.78	35% Silty Claystone, dark grey/black as above, turbo-affected Sm.am. Coal; Pyrite; Siderite; Limestone
M-6422	4799	0.56	75% Claystone, light grey, (very silty/calcareous) grey as above
		3.05	25% Silty Claystone, dark grey/black as above, turbo-affected Sm.am. Siderite; Coal (Additives, rubber)
M-6426	4811	0.74	100% Claystone, grey, light grey, very slightly calcareous to calcareous, some dark grey
M-6429	4820	0.52	25% Claystone
		2.90	75% Claystone, dark grey/black, occasionally slightly calcareous, some micromicaceous Sm.am. Siderite, brown-grey



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC		Lithology	
M-6432	4829	0.56	20%	Claystone, grey, light grey, as above	
		3.22	80%	Claystone, silty, dark grey to grey-black, sometimes fissile, as above	
M-6435	4841	0.65	15%	Claystone, grey, light grey (whitish very calcareous and silty), as above	
			85%	Claystone, as above, turbo-affected	
M-6437	4850	3.04	70%	Claystone, very silty, dark grey - grey/black, as above	
			0.54	25%	Claystone, grey, light grey, as above
			5%	Siderite/Limestone, grey-brown	
M-6440	4859	2.03	60%	Silty Claystone, dark grey - grey/black, as above	
		0.55	37%	Claystone, light grey - grey, as above	
M-6443	4868	2.02	80%	Claystone, to very silty, as above, dark grey - grey-black, strongly turbo-affected	
		0.65	20%	Claystone, light grey to grey, as above	
M-6447	4880	2.94	85%	Claystone, to very silty, dark grey - grey-black, as above	
		0.66	15%	Claystone, light grey to grey, very slightly calcareous	
M-6450	4889	2.57	85%	Silty Claystone, as above, dark grey/black	
		0.86	15%	Claystone, light grey to grey as above	



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6453	4898	3.22	85% Silty Claystone, dark grey/black, as above, turbo-affected
		0.80	15% Claystone, light grey (whitish silty) to grey as above
M-6457	4913	2.45	90% Silty Claystone, dark grey/black, as above
		0.73	10% Claystone, light grey to grey as above, strongly turbo-affected
M-6459	4919	2.86	85% Silty Claystone, dark grey/black, as above, occasionally strongly calcareous, turbo-affected
		0.60	15% Claystone, light grey - grey as above Sm.am. Coal; Siderite
M-6463	4931	2.57	95% Silty Claystone, dark grey/black, as above, strongly turbo-affected 5% Claystone, light grey/grey, as above
M-6466	4940	2.24	90% Silty Claystone, dark grey/black, as above, strongly turbo-affected
			10% Claystone, light grey, very calcareous to grey, as above
M-6469	4949	3.19	40% Claystone, dark grey/black, as above
		0.66	60% Claystone; grey to light grey, very slightly to very calcareous
M-6472	4961	2.33	85% Silty Claystone, dark grey/black, as above strongly turbo-affected
			15% Claystone, grey - light grey, as above



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6475	4970	2.81	90% Silty Claystone, dark grey/black, as above 10% Claystone, partly silty, light grey to grey as above
M-6479	4982	2.43	90% Silty Claystone, dark grey/black as above, strongly turbo-affected 10% Claystone, silty, light grey to grey as above Sm.am. ?Siderite, light grey-brown
M-6482	4991	2.08	90% Claystone, dark as above 10% Claystone, light as above
M-6485	5003	2.71 0.71	85% Silty Claystone, dark as above 15% Claystone, light as above Sm.am. Limestone, very dark grey-brown
M-6488	5012	2.15	95% Silty Claystone, dark/black as above, occasionally calcareous, strongly turbo-affected 5% Claystone, light grey - grey, slightly to very calcareous Sm.am. Pyrite; Coal
M-6491	5021	2.50	100% Silty Claystone, as above Sm.am. Claystone, light as above; Calcareous Sandstone, dark grey-brown, fine - medium
M-6494	5030	2.86 0.81	85% Claystone, dark/black as above, micromicaceous 15% Claystone, light grey to grey and brownish, calcareous



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6497	5039	2.53	90% Silty Claystone, dark as above, strongly turbo-affected 10% Claystone, light as above Sm.am. Siderite?, sucrosic; brownish secondary calcite 2% Coal, black shiny
M-6500	5048	3.50	805 Silty Claystone, dark grey to greyish black, micromicaceous
		0.57	20% Claystone, light grey to grey and brownish 2% Claystone/Limestone, light grey-brown
M-6504	5060	2.46	85% Claystone, dark as above
		0.71	15% Claystone, light as above
M-6507	5069	3.06	85% Claystone, dark as above, subfissile
		0.56	15% Claystone, light as above, subfissile Sm.am. Pyrite; brownish Sandstone
M-6511	5081	2.87	90% Silty Claystone, dark as above, turbo-affected 10% Claystone, light as above obs. Pyrite



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6514	5090	2.21	85% Claystone, silty, dark grey to greyish black, micromicaceous, occasionally some calcareous, partly turbo-affected, occasionally fissile, obs. lenses of Sandstone with secondary crystal growth
		0.54	15% Claystone, light grey to grey, brownish, as above Sm.am. Limestone/Claystone, light brown-grey; light yellow-brown Siderite
M-6518	5102	2.10	85% Claystone, dark as above 15% Claystone, light as above Sm.am. Pyrite
M-6521	5111	2.55	80% Claystone, dark as above, partly turbo-affected
		0.56	20% Claystone, light as above Sm.am. Coal
M-6524	5120	2.26	85% Claystone, dark as above, partly turbo-affected
			15% Claystone, light grey - grey, as above, calcareous Sm.am. Pyrite
M-6527	5129	2.14	85% Claystone, dark as above
		0.48	15% Claystone, light grey to grey, as above Dark brown secondary Calcite; Pyrite



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6530	5138	2.16	85% Claystone, dark as above, some turbo-affected 15% Claystone, light as above Sm.am. Coal; brown-grey Limestone
M-6534	5150	2.38 0.49	85% Claystone, dark as above 15% Claystone, light grey to grey, as above Sm.am. Limestone, dark grey-brown, hard
M-6537	5159	2.78	85% Claystone, dark as above 15% Claystone, light as above
M-6541	5171	3.35	85% Silty Claystone, dark/black as above, occasionally brownish, occasionally fissile, some turbo-affected 15% Claystone, light as above
M-6544	5180	2.59 0.55	80% Silty Claystone, dark as above 20% Claystone, light grey to grey, silty, as above
M-6547	5189	3.25 0.42	75% Silty Claystone, dark grey to grey-black, occasionally slightly calcareous, micromicaceous 25% Claystone, silty, light grey to grey, some to very calcareous, slightly brownish Sm.am. Limestone, very dark brown-grey, hard





# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6550	5198	2.77	80% Sand and Sandstone, brownish clear, subangular, medium
			13% Claystone, dark as above, obs. slightly greenish grey silt/claystone laminae in dark Claystone (non-calcareous)
			2% Claystone, light as above
M-6553	5207		92% Sand, as above, seems to contain oil on the surface
			8% Claystone, dark as above
			Sm.am. Claystone, light as above; Coal
M-6557	5219	2.78	30% Sand and Sandstone, as above but medium to coarse
			65% Silty Claystone, dark as above
			5% Claystone, light grey calcareous (slightly brownish)
M-6561	5231	2.49	50% Silty Claystone, dark grey, partly slightly calcareous, micromicaceous
			50% Sand and Sandstone, as above
M-6564	5240	2.68	75% Silty Claystone, as above, obs. grey-green laminae
			25% Sand/Sandstone, as above, some grading to very coarse
			2% Claystone, grey to light grey
M-6567	5249	2.25	40% Sand/Sandstone, medium to coarse and fine, as above
			60% Silty Claystone, dark grey as above



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6570	5258	2.42	70% Sand/Sandstone, as above 25% Silty Claystone, dark as above 5% Claystone, light grey - grey, as above
M-6573	5267	2.72	50% Sand/Sandstone, as above 50% Silty Claystone, dark as above, obs. dark brown filling of Calcite in fissures 3% Claystone, light grey, calcareous
M-6577	5279	2.31	80% Sand/Sandstone, medium to coarse, clear, with dark patches of organic material 20% Silty Claystone, dark as above Sm.am. Claystone, light as above; grey-brown ?Siderite
M-6580	5288	3.21	90% Sand and Sandstone, as above 10% Silty Claystone, dark as above Sm.am. Coal; Pyrite
M-6584	5300	2.12	85% Sand/Sandstone 15% Silty Claystone, dark grey to grey as above Sm.am. Claystone, light grey to grey as above
M-6587	5309	2.05	80% Sand/Sandstone, as above 17% Silty Claystone, dark as above 3% Coal Sm.am. Claystone, light grey, grey



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6590	5318	1.73	60% Silt/Claystone, dark grey grading to greyish black, micromicaceous 30% Sand/Sandstone 10% Coal, black, shiny
M-6594	5330	1.87	33% Silt/Claystone, as above 60% Sand/Sandstone 7% Coal
M-6597	5339	1.84 12.54	15% Silt/Claystone, as above, partly carbonaceous 15% Coal, black, shiny 70% Sandstone and Sand, as above, obs. dark claystone clasts, calcareous cemented Sm.am. Limestone, hard, brown, tight, grey - light grey Claystone Obs. Claystone, green
M-6600	5348	2.44	50% Sand/Sandstone, as above 15% Silty Claystone, as above 35% Coal, black, shiny
M-6604	5360	2.04	30% Sand/Sandstone, as above 55% Silty Claystone, as above 15% Coal Sm.am. Claystone, grey - light grey; grey-brown Limestone; dark yellowish brown Limestone
M-6607	5369	2.47	75% Sand/Sandstone, as above 25% Silt/Claystone, as above Sm.am. Coal; Claystone, grey - light grey, calcareous



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6610	5378	2.05	75% Sand/Sandstone, as above, calcareous 15% Silt/Claystone as above, partly carbonaceous 10% Coal Sm.am. Claystone, grey, light brownish
M-6614	5390	1.87	80% Sandstone, fine - coarse, variably calcareous 13% Silt/Claystone, as above 2% Coal Sm.am. Claystone, grey, greenish; Pyrite; ?Siderite, grey-brown
M-6617	5399	1.71	75% Sandstone, as above 20% Silt/Claystone, as above 5% Coal Sm.am. Limestone, dark brown
M-6620	5408	2.10	60% Sand/Sandstone 35% Silt/Claystone, as above 5% Coal Sm.am. Limestone, hard, dark brownish grey
M-6624	5420	2.34	50% Sandstone, fine - medium, some coarse sand, white with brown staining 50% Silt/Claystone, dark grey to greyish black as above 3% Coal Sm.am. Claystone, grey and light grey; hard dark brown-grey Limestone



# Lithology and Total Organic Carbon measurements

TABLE NO.:  
WELL NO.: 30/4-1

Sample	Depth (m)	TOC	Lithology
M-6627	5429	2.09	15% Sandstone, as above 75% Silt/Claystone, as above 10% Coal Sm.am. Claystone, light grey - grey
M-6630	5441	2.40	80% Silt/Claystone, as above 5% Sandstone, as above 5% Coal 10% Claystone, grey - light grey, calcareous Sm.am. ?Siderite, yellow-brown
M-6633	5450	2.20	58% Silt/Claystone, as above 35% Sand/Sandstone, as above 7% Coal Sm.am. Claystone, light grey to grey

F/O-nr.. P-410.....Stikkord:....30/4-1.....

Dato:.....Operatør:.....

EXTRE LST; 166

I	IKU-No:	DEPTH	ROCK- EXTR.:	EDM	V	SAT	ARO	TOC
1	M-6066	3480	2.83	2.1		1008 <del>114</del>	1108 <del>156</del>	1.05
2	M-6096	3630	2.28	3.7		112 <del>168</del>	2320 <del>264</del>	0.93
3	M-6122+24	3760+ 3770	5.75	7.0		2.16	0.72	0.78
4	M-6166	3980	20.08	28.6		6.6	2.76	1.15
5	M-6178	4040	24.25	45.1		5.16	3.48	1.17
6	M-6194	4100	7.75	15.7		2.16	2.88	3.29
7	M-6234	4223	13.77	10.3		2.16	2.28	3.01
8	M-6268	4328	22.08	08.3		6.96	3.24	2.07
9	M-6292	4400	8.13	4.9		1.44	2.28	1.21
10	M-6338	4541	3.01	2.9		1.08	1.2	2.06
11	M-6367	4631	9.94	10.9		3.36	1.92	2.13
12	M-6377	4661	5.2	13.7		2.4	2.04	3.26
13	M-6396	4718	4.69	12.7		1.92	1.32	2.76
14	M-6432	4829	3.45	5.4		1.32	2.16	2.39
15	M-6437	4850	7.82	10.5		2.76	6.6	2.22
16	M-6453	4898	6.4	16.4		2.04	2.76	2.74
17	M-6459	4919	12.1	18.0		3.16	1.56	2.66
18	M-6472	4961	16.4	30.2		4.44	2.64	2.13
19	M-6485	5003	16.6	38.6		4.56	3.6	3.55
20	M-6497	5039	24.52	49.8		5.88	4.56	3.16
21	M-6511	5081	17.48	32.8		6.36	3.96	3.29
22	M-6537	5159	12.68	10.9		3.24	2.16	2.67
23	M-6557	5219	15.04	14.7		2.4	1.68	2.29
24	M-6573	5267	6.53	15.2		1.2	2.04	2.65
25	M-6607+10	5369+ 5378	8.98	16.7		2.04	2.4	2.44

F/O-nr... P-410 ..... Stikkord: ... 20/4-1 .....

Date: ..... Operatoer: .....

I	IKU-No:	DEPTH	ROCK-EXTR.:	EOM	V	SAT	ARO	TOC
I 1	M-6630	5441	5.15	3.4		1.6 <del>1.8</del>	1.3 <del>1.6</del>	2.65
I 2	M-6443	4868	25.45	43.4		6.24	0.72	1.73
I 3	M-6447	4880	11.1	8.0		3.12	0.72	2.05
I 4								
I 5								
I 6								
I 7								
I 8								
I 9								
I 10								
I 11								
I 12								
I 13								
I 14								
I 15								
I 16								
I 17								
I 18								
I 19								
I 20								
I 21								
I 22								
I 23								
I 24								
I 25								

T A B L E : 3.

CONCENTRATION OF EDM AND CHROMATOGRAPHIC FRACTIONS

I	:	:	Rock	:	:	:	:	Non	:	:
I	IKU-No	DEPTH	Extr.	EDM	Sat.	Are.	HC	HC	TOC	
I	:	(m)	(g)	(mg)	(mg)	(mg)	(mg)	(mg)	(%)	
I	:	:	:	:	:	:	:	:	:	
I	M 6066	3480.00	2.8	2.1	0.8	0.9	1.7	0.4	1.05	
I	M 6096	3630.00	3.3	3.7	1.2	2.0	3.2	0.5	0.93	
I	M 6122	3760.00	5.7	7.0	2.2	0.7	2.9	4.1	0.78	
I	+24	+3770.00								
I	M 6166	3980.00	20.1	28.6	6.6	2.8	9.4	19.2	1.15	
I	M 6178	4040.00	24.2	45.1	5.2	3.5	8.6	36.5	1.17	
I	M 6194	4100.00	7.7	15.7	2.2	2.9	5.0	10.7	3.29	
I	M 6234	4223.00	13.8	10.3	2.2	1.3	3.4	6.9	3.01	
I	M 6268	4328.00	22.1	58.3	7.0	3.2	10.2	48.1	2.07	
I	M 6292	4400.00	8.1	4.9	1.4	2.3	3.7	1.2	1.21	
I	M 6338	4541.00	3.0	2.9	1.1	1.2	2.3	0.6	2.06	
I	M 6367	4631.00	9.9	10.9	3.4	1.9	5.3	5.6	2.13	
I	M 6377	4661.00	5.2	13.7	2.4	2.0	4.4	9.3	3.26	
I	M 6396	4718.00	4.7	12.7	1.9	1.3	3.2	9.5	2.76	
I	M 6432	4829.00	3.4	5.4	1.3	2.2	3.5	1.9	2.39	
I	M 6437	4850.00	7.8	10.5	2.8	6.6	9.4	1.1	2.22	
I	M 6443	4868.00	25.4	43.4	6.2	0.7	7.0	36.4	1.73	
I	M 6447	4880.00	11.1	8.0	3.1	0.7	3.8	4.2	2.05	
I	M 6453	4898.00	6.4	16.4	2.0	2.8	4.8	11.6	2.74	
I	M 6459	4919.00	12.1	18.0	5.2	1.6	6.7	11.3	2.66	
I	M 6472	4961.00	16.4	30.2	4.4	2.6	7.1	23.1	2.13	
I	M 6485	5003.00	16.6	38.6	4.6	3.6	8.2	30.4	3.55	
I	M 6497	5039.00	24.5	49.8	5.9	4.6	10.4	39.4	3.16	



T A B L E : 3.

CONCENTRATION OF EDM AND CHROMATOGRAPHIC FRACTIONS

I	:	:	Rock	:	:	:	:	:	Non	:	:						
I	IKU-No	:	DEPTH	:	Extr.	:	EDM	:	Satr.	:	Aro.	:	HC	:	HC	:	TOC
I	:	:	(m)	:	(g)	:	(mg)	:	(mg)	:	(mg)	:	(mg)	:	(mg)	:	(%)
I	M 6511	:	5081.00	:	17.5	:	32.8	:	6.4	:	4.0	:	10.3	:	22.5	:	3.29
I	M 6537	:	5159.00	:	12.7	:	10.9	:	3.2	:	2.2	:	5.4	:	5.5	:	2.67
I	M 6557	:	5219.00	:	15.0	:	14.7	:	2.4	:	1.7	:	4.1	:	10.6	:	2.29
I	M 6573	:	5267.00	:	6.5	:	15.2	:	1.2	:	2.0	:	3.2	:	12.0	:	2.65
I	M 6607	:	5369.00	:	9.0	:	16.7	:	2.0	:	2.4	:	4.4	:	12.3	:	2.44
I	+10	:	+5378.00	:	:	:	:	:	:	:	:	:	:	:	:	:	:
I	M 6630	:	5441.00	:	5.1	:	3.4	:	1.6	:	1.3	:	2.9	:	0.5	:	2.65

DATE : 28 - 2 - 83.

T A B L E : 4.

WEIGHT OF EDM AND CHROMATOGRAPHIC FRACTIONS

(Weight ppm OF rock)

I	I	I	I	I	I	I	I	I	I
I	IKU-No	DEPTH	EDM	Sat.	Aro.	HC	Non	HC	I
I		(m)							I
I	M 6066	3480.00	742	283	318	601	141		I
I	M 6096	3630.00	1128	366	610	976	152		I
I	M 6122	3760.00	1217	376	125	501	717		I
I	+24	+3770.00							I
I	M 6166	3980.00	1424	329	137	466	958		I
I	M 6178	4040.00	1860	213	144	356	1504		I
I	M 6194	4100.00	2026	279	372	650	1375		I
I	M 6234	4223.00	748	157	93	250	498		I
I	M 6268	4328.00	2640	315	147	462	2178		I
I	M 6292	4400.00	603	177	280	458	145		I
I	M 6338	4541.00	963	359	399	757	206		I
I	M 6367	4631.00	1097	338	193	531	565		I
I	M 6377	4661.00	2635	462	392	854	1781		I
I	M 6396	4718.00	2708	409	281	691	2017		I
I	M 6432	4829.00	1565	383	626	1009	557		I
I	M 6437	4850.00	1343	353	844	1197	146		I
I	M 6443	4868.00	1705	245	28	273	1432		I
I	M 6447	4880.00	721	281	65	346	375		I
I	M 6453	4898.00	2563	319	431	750	1813		I
I	M 6459	4919.00	1488	426	129	555	932		I
I	M 6472	4961.00	1841	271	161	432	1410		I
I	M 6485	5003.00	2325	275	217	492	1834		I
I	M 6497	5039.00	2031	240	186	426	1605		I

T A B L E 4.

WEIGHT OF EOM AND CHROMATOGRAPHIC FRACTIONS

(Weight ppm OF rock)

I	IKU-No	DEPTH	EOM	Sat.	Aro.	HC	Non	I
I	:	(m)	:	:	:	:	HC	I
I	M 6511	5081.00	1876	364	227	590	1286	I
I	M 6537	5159.00	860	256	170	426	434	I
I	M 6557	5219.00	977	160	112	271	706	I
I	M 6573	5267.00	2328	184	312	496	1832	I
I	M 6607	5369.00	1860	227	267	494	1365	I
I	+10	+5378.00	:	:	:	:	:	I
I	M 6630	5441.00	660	311	252	563	97	I

DATE : 28 - 2 - 83.

TABLE : 5.

CONCENTRATION OF EOM AND CHROMATOGRAPHIC FRACTIONS

(mg/g TOC)

JKU-No	DEPTH (m)	EOM	Sat.	Aro.	HC	Non HC
M 6066	3480.00	70.7	26.9	30.3	57.2	13.5
M 6096	3630.00	121.3	39.3	65.6	104.9	16.4
M 6122	3760.00	156.1	48.2	16.1	64.2	91.9
+24	+3770.00					
M 6166	3980.00	123.9	28.6	12.0	40.5	83.3
M 6178	4040.00	159.0	18.2	12.3	30.5	128.5
M 6194	4100.00	61.6	8.5	11.3	19.8	41.8
M 6234	4223.00	24.9	5.2	3.1	8.3	16.6
M 6268	4328.00	127.6	15.2	7.1	22.3	105.2
M 6292	4400.00	49.8	14.6	23.2	37.8	12.0
M 6338	4541.00	46.8	17.4	19.4	36.8	10.0
M 6367	4631.00	51.5	15.9	9.1	24.9	26.5
M 6377	4661.00	80.8	14.2	12.0	26.2	54.6
M 6396	4718.00	98.1	14.8	10.2	25.0	73.1
M 6432	4829.00	65.5	16.0	26.2	42.2	23.3
M 6437	4850.00	60.5	15.9	38.0	53.9	6.6
M 6443	4868.00	98.6	14.2	1.6	15.8	82.8
M 6447	4880.00	35.2	13.7	3.2	16.9	18.3
M 6453	4898.00	93.5	11.6	15.7	27.4	66.1
M 6459	4919.00	55.9	16.0	4.8	20.9	35.0
M 6472	4961.00	86.5	12.7	7.6	20.3	66.2
M 6485	5003.00	65.5	7.7	6.1	13.8	51.7
M 6497	5039.00	64.3	7.6	5.9	13.5	50.8

## T A B L E : 5.

### CONCENTRATION OF EOM AND CHROMATOGRAPHIC FRACTIONS

(mg/g TOC)

I	I	I	I	I	I	I	I	I	I					
I	IKU-No	I	DEPTH	I	EOM	I	Sat.	I	Aro.	I	HC	I	Non	I
I	I	I	(m)	I	I	I	I	I	I	I	I	I	HC	I
I	M 6511	I	5081.00	I	57.0	I	11.1	I	6.9	I	17.9	I	39.1	I
I	M 6537	I	5159.00	I	32.2	I	9.6	I	6.4	I	16.0	I	16.2	I
I	M 6557	I	5219.00	I	42.7	I	7.0	I	4.9	I	11.8	I	30.8	I
I	M 6573	I	5267.00	I	87.8	I	6.9	I	11.8	I	18.7	I	69.1	I
I	M 6607	I	5369.00	I	76.2	I	9.3	I	11.0	I	20.3	I	56.0	I
I	+10	I	+5378.00	I	I	I	I	I	I	I	I	I	I	I
I	M 6630	I	5441.00	I	24.9	I	11.7	I	9.5	I	21.2	I	3.7	I

DATE : 28 - 2 - 83.

T A B L E : 6.

COMPOSITION IN % OF MATERIAL EXTRACTED FROM THE ROCK

I I I I I	IKU-No	DEPTH (m)	Sat --- EOM	Aro --- EOM	HC --- EOM	SAT --- Aro	Non HC --- EOM	HC --- Non HC
I	M 6066	3480.00	38.1	42.9	81.0	88.9	19.0	425.0
I	M 6096	3630.00	32.4	54.1	86.5	60.0	13.5	640.0
I	M 6122	3760.00	30.9	10.3	41.1	300.0	58.9	69.9
I	+24	+3770.00						
I	M 6166	3980.00	23.1	9.7	32.7	239.1	67.3	48.6
I	M 6178	4040.00	11.4	7.7	19.2	148.3	80.8	23.7
I	M 6194	4100.00	13.8	18.3	32.1	75.0	67.9	47.3
I	M 6234	4223.00	21.0	12.4	33.4	168.8	66.6	50.1
I	M 6268	4328.00	11.9	5.6	17.5	214.8	82.5	21.2
I	M 6292	4400.00	29.4	46.5	75.9	63.2	24.1	315.3
I	M 6338	4541.00	37.2	41.4	78.6	90.0	21.4	367.7
I	M 6367	4631.00	30.8	17.6	48.4	175.0	51.6	94.0
I	M 6377	4661.00	17.5	14.9	32.4	117.6	67.6	47.9
I	M 6396	4718.00	15.1	10.4	25.5	145.5	74.5	34.2
I	M 6432	4829.00	24.4	40.0	64.4	61.1	35.6	181.2
I	M 6437	4850.00	26.3	62.9	89.1	41.8	10.9	821.1
I	M 6443	4868.00	14.4	1.7	16.0	866.7	84.0	19.1
I	M 6447	4880.00	39.0	9.0	48.0	433.3	52.0	92.3
I	M 6453	4898.00	12.4	16.8	29.3	73.9	70.7	41.4
I	M 6459	4919.00	28.7	8.7	37.3	330.8	62.7	59.6
I	M 6472	4961.00	14.7	8.7	23.4	168.2	76.6	30.6
I	M 6485	5003.00	11.8	9.3	21.1	126.7	78.9	26.8
I	M 6497	5039.00	11.8	9.2	21.0	128.9	79.0	26.5

T A B L E : 6.

COMPOSITION IN % OF MATERIAL EXTRACTED FROM THE ROCK

I	IKU-No	DEPTH	Sat	Aro	HC	SAT	Non HC	HC
I		(m)	EOM	EOM	EOM	Aro	EOM	Non HC
I	M 6511	5081.00	19.4	12.1	31.5	160.6	68.5	45.9
I	M 6537	5159.00	29.7	19.8	49.5	150.0	50.5	98.2
I	M 6557	5219.00	16.3	11.4	27.8	142.9	72.2	38.4
I	M 6573	5267.00	7.9	13.4	21.3	58.8	78.7	27.1
I	M 6607	5369.00	12.2	14.4	26.6	85.0	73.4	36.2
I	+10	+5378.00						
I	M 6630	5441.00	47.1	38.2	85.3	123.1	14.7	580.0

DATE : 28 - 2 - 83.

## T A B L E 7

### TABULATION OF DATAS FROM THE GASCHROMATOGRAMS

I	I	I	I	I	I	I	I
I	IKU No.	I	DEPTH	I	PRISTANE	I	PRISTANE
I	I	I	(m)	I	n-C17	I	PHYTANE
I	I	I	I	I	I	I	CPI
I	I	I	I	I	I	I	I
I	M 6066	I	3480	I	0.6	I	1.2
I	I	I	I	I	I	I	0.9
I	M 6096	I	3630	I	0.5	I	1.5
I	I	I	I	I	I	I	1.1
I	M 6122	I	3760	I	0.6	I	1.2
I	+24	I	+3770	I	I	I	0.8
I	M 6166	I	3980	I	0.6	I	1.2
I	I	I	I	I	I	I	0.8
I	M 6178	I	4040	I	0.7	I	1.5
I	I	I	I	I	I	I	1.0
I	M 6194	I	4100	I	0.5	I	1.6
I	I	I	I	I	I	I	1.1
I	M 6234	I	4223	I	0.5	I	1.9
I	I	I	I	I	I	I	1.1
I	M 6268	I	4328	I	0.6	I	1.6
I	I	I	I	I	I	I	1.1
I	M 6292	I	4400	I	0.4	I	2.4
I	I	I	I	I	I	I	0.9
I	M 6338	I	4541	I	0.5	I	1.7
I	I	I	I	I	I	I	1.0
I	M 6367	I	4631	I	0.5	I	2.2
I	I	I	I	I	I	I	1.1
I	M 6377	I	4661	I	0.5	I	1.5
I	I	I	I	I	I	I	0.7
I	M 6396	I	4718	I	0.5	I	1.7
I	I	I	I	I	I	I	1.2
I	M 6432	I	4829	I	0.5	I	2.2
I	I	I	I	I	I	I	1.2
I	M 6437	I	4850	I	0.5	I	1.4
I	I	I	I	I	I	I	0.9
I	M 6443	I	4868	I	0.6	I	2.4
I	I	I	I	I	I	I	1.7
I	M 6447	I	4880	I	0.5	I	1.8
I	I	I	I	I	I	I	1.1
I	M 6453	I	4898	I	0.5	I	2.3
I	I	I	I	I	I	I	1.1
I	M 6459	I	4919	I	0.6	I	2.1
I	I	I	I	I	I	I	0.9
I	M 6472	I	4961	I	0.5	I	2.3
I	I	I	I	I	I	I	1.1
I	M 6485	I	5003	I	0.5	I	2.5
I	I	I	I	I	I	I	0.9
I	M 6497	I	5039	I	0.5	I	2.4
I	I	I	I	I	I	I	0.7
I	M 6511	I	5081	I	0.5	I	2.4
I	I	I	I	I	I	I	1.2



## T A B L E 7

### TABULATION OF DATAS FROM THE GASCHROMATOGRAMS

I	I	I	I	I	I	I
I	IKU No.	DEPTH	PRISTANE	PRISTANE	CPI	I
I	I	(m)	n-C17	PHYTANE	I	I
I	I	I	I	I	I	I
I	M 6537	5159	0.5	2.0	0.7	I
I	I	I	I	I	I	I
I	M 6557	5219	0.5	2.3	1.2	I
I	I	I	I	I	I	I
I	M 6573	5267	0.5	2.7	1.0	I
I	I	I	I	I	I	I
I	M 6607	5369	0.5	2.4	0.7	I
I	+10	+5378	I	I	I	I
I	M 6630	5441	0.5	2.3	1.1	I
I	I	I	I	I	I	I

DATE : 11 - 3 - 83.

## Examination in Reflected Light

Twenty-two samples were examined in reflected light. Vitrinite reflectance measurements are poor and very variable probably due to the effect of turbo-drilling noted in several samples. The samples are dominated by reworked material and inertinite. Due to low populations suspected reworked material has occasionally been included. The samples are described below.

### Sample M-5664, 1500m: Claystone, No Determination Possible

The sample is very soft (poorly lithified) and gives a poor polish. The organic content is low to moderate but is dominantly bitumen wisps with a trace of inertinite and reworked vitrinite. No primary vitrinite was observed. The reworked vitrinite has a reflectance of approximately 0.77%. A trace of mineral fluorescence is observed under ultra violet light.

### Sample M-5676, 1620m: Claystone, $R_o=0.40(1)$

The sample has a low to moderate organic content. This is dominantly bitumen wisps with a trace of reworked vitrinite and small, rounded inertinite fragments. There is one possible primary vitrinite fragment. Reworked vitrinite has a reflectance of approximately 0.80% or higher. Very faint mineral fluorescence is observed under ultra-violet light.

### Sample M-5739, 2011m: Claystone, $R_o=0.36(6)$ and $0.63(3)$

The sample is poorly lithified and takes a bad polish. The organic content is low to moderate and is dominantly composed of bitumen wisps, inertinite and reworked vitrinite. There is very little primary vitrinite but many variable populations of reworked material. No fluorescence is observed.

### Sample M-5868, 2490m: Claystone with lignite (additive?), $R_o=0.69(3)$

The claystone has a low organic content which is dominantly inertinite. A few clasts are rich in bitumen wisps and lignitic/bituminitic material. Lignite additive is observed. There is a poor content of possible primary vitrinite and the result seems high. No fluorescence is observed.

Sample M-5928, 2790m: Silty claystone, No Determination Possible

The sample contains dominantly inertinite with reworked vitrinite second in abundance. There is a trace of bitumen blobs and wisps. There is a poor vitrinite content which could be affected by oxidation or is reworked ( $R_o=1.16(5)$ ). No fluorescence is observed.

Sample M-5952, 2910m: Claystone,  $R_o=0.62(6)$  and  $1.00(6)$

The sample has a low organic content. This is dominantly inertinite and reworked vitrinite with some bitumen. The sample appears to have been turbo drilled resulting in a wide range of values possibly falling into two populations - the lower being most representative. No fluorescence is observed.

Sample M-6018, 3240m: Claystone, No Determination Possible

The sample has a low organic content which includes a trace of very small inertinite particles plus very gnarled vitrinite. The sample is affected by turbo-drilling but one apparently unaffected clast has vitrinite with a reflectance of 1.13%(3). This is probably reworked. No fluorescence is observed.

Sample M-6030, 3300m: Claystone,  $R_o=0.71(4)$  and  $0.98(2)$

The sample is very poor. It appears badly affected by turbo-drilling. Only a few clasts appear less affected and these contain dominantly very small inertinite fragments. It is difficult to assess if the recorded populations are from primary or reworked vitrinite. No fluorescence is observed.

Sample M-6048, 3390m: Claystone, No Determination Possible

The sample is badly affected by turbo-drilling. No organic material is recognisable. No fluorescence is observed.

Sample M-6066, 3480m: Claystone, No Determination Possible

The sample contains some lignite additive but no other organic material is recognisable. No fluorescence is observed.

Sample M-6112, 3710m: Claystone,  $R_o=0.87(1)$

The sample shows signs of turbo-drilling. There is a trace of possible inertinite and one possible primary vitrinite fragment - this could be contaminant/reworked. No fluorescence is observed.

Sample M-6126, 3780m: Claystone, Ro=0.63(2), 0.93(6) and 1.25(6)

The sample has a moderate organic content but this is very dominantly inertinite and reworked material. All of the material is gnarled and possibly affected by turbo drilling. The vitrinite is poor. No fluorescence is observed.

Sample M-6136, 3830m: Claystone and drilling mud, Ro=0.59(1) and 1.28(8)

The sample is affected by turbo-drilling. There is a moderate organic content which is very dominantly inertinite and reworked vitrinite. The highest value recorded is probably reworked or affected material. It is a bad sample. No fluorescence is observed.

Sample M-6180, 4050m: Varied claystone, Ro=0.91(2) and 1.28(10)

Some of the sample appears turbo-drilled. There is an overall moderate organic content but this is dominantly inertinite and reworked material. The values seem high but the sample is better than most. No fluorescence is observed.

Sample M-6236, 4229m: Claystone and lignite additive, Ro=0.67(2) and 1.46(1)

This is a poor sample. It appears to have been partially affected by turbo-drilling. There is a poor organic content which is very variable from clast to clast. This is dominantly inertinite and reworked material. The upper value is probably reworked. No fluorescence is observed.

Sample M-6282, 4370m: Varied claystones and lignite additive, Ro=1.48(12)

The sample has a low to moderate organic content but this is dominantly inertinite then reworked material. The measured vitrinite appears primary but has a very high reflectance and due to other samples in this well reworking must be suspected. No fluorescence is observed.

Sample M-6318, 4481m: Varied claystone and lignite additive, Ro=1.08(5) and 1.43(12)

This is a very poor sample. There is a low to moderate organic content which is dominantly inertinite and reworked inertinite. The vitrinite present is very variable and rather high Ro. No fluorescence is observed.

Sample M-6367, 4631m: Claystone and siltstone,  $R_o=0.87(6)$ ,  $1.20(3)$  and  $1.48(3)$

This is a very poor sample. There is a moderate organic content which is very dominantly inertinite together with reworked material. It is difficult to distinguish possible caving and reworking. No fluorescence is observed.

Sample M-6416, 4731m: Claystone and siltstone,  $R_o=0.97(11)$

The sample has a moderate organic content. The claystone contains only inertinite and reworked vitrinite but the siltstone has some good primary vitrinite. There is a trace of (caved?) turbo-drilled material. No fluorescence is observed.

Sample M-6453, 4898m: Siltstone and claystone,  $R_o=1.05(9)$

The siltstone is much richer but both lithologies contain dominantly inertinite and reworked vitrinite. There is a very broad (poor) range of values. No fluorescence is observed.

Sample M-6494, 5030m: Claystone with lignite additive,  $R_o=0.94(8)$  and  $1.39(3)$

This is a poor sample. There is a low to moderate organic content which is dominantly inertinite and reworked material. The material is very gnarled and pitted and distinction is difficult. No fluorescence is observed.

Sample M-6541, 5171m: Varied claystones,  $R_o=1.36(20)$

This is a poor sample. Some of the clasts appear to be affected by turbo-drilling (caved/contaminant?). The organic material is very variable but there is generally a high content. This is dominantly inertinite with reworked vitrinite. The possible primary vitrinite has a very broad distribution of values. No fluorescence is observed.



## Vitrinite Reflectance measurements

TABLE NO.: 8  
WELL NO.: 30/4-1

Sample	Depth	Vitrinite reflectance	Fluorescence in UV light	Exinite content
M-5664	1500	N.D.P. (rew=0.77 (3))	Trace of faint mineral fluorescence	Nil
M-5676	1620	0.40 (1) (rew=>0.8)	Very faint mineral fluorescence	Nil
M-5739	2011	0.36 (6) and 0.64 (3)	Nil	Nil
M-5868	2490	0.69 (3)	Nil	Nil
M-5928	2790	N.D.P.? (rew=1.16 (5))	Nil	Nil
M-5952	2920	0.62 (6) (rew=1.00 (6))	Nil	Nil
M-6018	3240	N.D.P.? (rew=1.13 (3))	Nil	Nil
M-6030	3300	0.71 (4) and 0.98 (2)	Nil	Nil
M-6048	3390	N.D.P.	Green spores in lignite additive	Trace
M-6066	3480	N.D.P.	Nil	Nil
M-6112	3710	0.87 (1) (rew?)	Nil	Nil
M-6126	3780	0.63 (2), 0.93 (6) and 1.25 (6)	Nil	Nil



## Vitrinite Reflectance measurements

TABLE NO.: 8  
WELL NO.: 30/4-1

Sample	Depth	Vitrinite reflectance	Fluorescence in UV light	Exinite content
M-6136	3830	0.59 (1) and 1.28 (8) (rew?)	Nil	Nil
M-6180	4050	0.91 (2) and 1.28 (10) (rew?)	Nil	Nil
M-6236	4229	0.67 (2) and 1.46 (1) (rew?)	Nil	Nil
M-6282	4370	1.48 (12) (rew?)	Nil	Nil
M-6318	4481	1.08 (5) and 1.43 (12) (rew?)	Nil	Nil
M-6367	4631	0.87 (6), 1.20 (3) and 1.48 (3) (rew?)	Nil	Nil
M-6416	4781	0.97 (11)	Nil	Nil
M-6453	4898	1.05 (9)	Nil	Nil
M-6494	5030	0.94 (8) and 1.39 (3) (rew?)	Trace of mineral fluorescence	Nil
M-6541	5171	1.36 (20) (rew?)	Nil	Nil

rew?= Possible reworked or contaminated material

## Analyses in Transmitted Light

The sedimentary organic matter of well 30/4-1 was investigated on the basis of 21 samples, selected lithologies from ditch cuttings. The samples range from 1500m to 5440m and are spaced at 100m to 300m intervals between 2490m and 5440m.

Terrestrial material apparently was the main source of organic matter, but the texture and colour in most samples seem changed under influence of high temperatures. There is a partial break down of the wall material, and a darkening of the colour tones but no increase in opacity. The phenomenon is ascribed to tectonic activity or to the drilling process. For these reasons the lower values were chosen as maturity parameters. The material above 3480m was considered as immature.

1500m - 2645m	Colour index 1/1+	Immature
2910m - 3480m	Colour index 1+/2-	Immature
3620m - 4229m	Colour index 2-/2	Top oil window
4370m - 4631m	Colour index 2-/2	Top oil window
4670m - 5030m	Colour index 2	Mature
5171m - 5288m	Colour index 2	Mature
5441m - ? TD	Colour index 2	Mature

### 1500m

Pyritic loose aggregates that mostly consist of sapropelised terrestrial remains, of probable woody origin. The woody fragments partly have etched surfaces. The rich and varied cysts are well preserved. True amorphous material seems subordinate. A marine environment with carbonate formation. Colour index: 1/1+.

### 2490m

Strongly degraded, sapropelised woody material dominates completely. The number of cysts are strongly reduced. True amorphous material seems subordinate. A probably marine environment with quiet bottom conditions. Closer proximity to the shore line than above. Colour index: 1+.

### 2645m

Woody material of variable preservation dominates the residue which is a mixture of disperse fragments and loose aggregates as above. The palyno-



morphs are of variable quality, but cysts are generally well preserved. True amorphous material seems subordinate. Shifting, but marine conditions. Colour index: 1/1+, 1+.

2910m - 3480m

Dense aggregates of granular texture and composed mostly of strongly degraded material. True amorphous material, if present, is very difficult to distinguish. The main source seems to be woody (vitrinite). The large woody fragments show variable preservation. Palynomorphs were difficult to distinguish and are of poor preservation. Marine, quiet bottom conditions, probably shallow and with strong biological activity.

Colour index: 1+/2-, 2-, 2.

3620m

Vitrinite and inertinite dominate, amorphous material is subordinate. Palynomorphs (cysts mainly) are fairly well preserved and variably coloured. A marine mildly oxidative environment with stagnant bottom conditions.

Colour index: 2-/2, 2.

3780m

A very small residue that mostly consists of greyish aggregates, probably of woody origin. Material from an area with carbonate formation.

Colour index: No determination possible.

4050m - 4229m

Dense aggregates of strongly degraded material, believed to be mostly of woody origin. The colour is greyish. Occasional bright-coloured yellow-brown vitrinite fragments (?caved material). As above probably an area with carbonate formation.

Colour index: 2-/2, 2 (Somewhat doubtful based on rare pollen and supported by the fairly light-coloured vitrinite which both may represent caved material).

4370m - 4631m

Residues of woody material, well dispersed fragments of vitrinite/inertinite and semifusinite/fusinite dominate. Amorphous material is subordinate. The only palynomorphs observed were dinoflagellate cysts apparently of Early Cretaceous affinity and reflecting a marine environment. The

cysts are darkly stained, fairly well preserved and not suitable for evaluation of colour index.

4670m - 5030m

Pyritic, dense aggregates, dominantly of degraded woody material with admixtures of cuticles from leaves. Primary structures have been lost partly because of crystals formed within the organic aggregates. Some increase in better preserved vitrinite at 5030m. A probable marine environment, in close proximity to vegetated land areas and with quiet stagnant bottom conditions.

Colour index: 2, 2+, 3/3+.

5171m - 5288m

More well dispersed particles. More of semifusinite/fusinite than in the interval above. Amorphous material seems present but the origin is difficult to determine. Although poorly preserved, pollen grains are richly represented, along with some cuticles. As above probably a marine environment close to vegetated land areas but with more oxidative conditions.

Colour index: 2, 3/3+, 3+.

5441m

A residue of pyritic aggregates. The material was evaluated as composed mostly of strongly degraded cuticles, pollen and spores. There is some semifusinite/fusinite. Close proximity to vegetation. A quiet, shallow ?marine area with biological activity.

Colour index: 2, 3+.

**IKU**

# Visual Kerogen Analysis

TABLE NO.: 9  
 WELL NO.: 30/4-1

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
M-5664	1500	W, P, S, Cut, WR!/Am, Cy	F-M	good	1/1+	Pyritic residue, loose aggregates of sapropel/sapropelised material. Particles larger than 15 include rich and varied cysts. Etched woody fragments. Remains of fungi.
M-5868	2490	W	F-M	good	1+	As above, but the relative proportion of degraded woody material (vitrinite) is increased. Cysts are reduced.
M-5899	2645	W, WR!, P/Am, Cy	F-M	good	1/1+, 1+	Mostly fine-grained material, dispersed and as aggregates
M-5952	2910	?Am/?He	F-M	poor	2-/2	Dense granular often rounded aggregates of strongly degraded or amorphous material.
M-5988	3090	?Am/?He/W, WR!	F-M	poor	1+/2-, 2-	As 2910m but relative increase in woody material (vitrinite).

## ABBREVIATIONS

**Am** Amorphous  
**He** Herbaceous  
**Cut** Cuticles

**Cy** Cysts, algae  
**P** Pollen grains  
**S** Spores

**W** Woody material  
**C** Coal  
**R!** Reworked

**F** Fine  
**M** Medium  
**L** Large

**IKU**

# Visual Kerogen Analysis

TABLE NO.: 9  
 WELL NO.: 30/4-1

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
M-6018	3240	Am/?He/W, WR!	F-M	poor	2	As 2910m and 3090m, dense granular aggregates of strongly degraded material. Some reddish vitrinite fragments and fusinite, but mainly material of greyish colour.
M-6066	3480	W, ?He, WR!	F-M-L	poor	(2)	Strongly degraded material mostly. A woody origin is suggested.
M-6094	3620	W, WR!, P/Am, Cy	F-M	fair to good	2-/2, 2	Pyritic residue dominated by vitrinite and inertinite.
M-6126	3780	*W, ?He	F-M	poor	N.D.P	*A very small residue. Aggregates of grey ?amorphous, degraded material of probably woody origin.
M-6180	4050	W, WR!/Am, Cy		poor	2-/2, 2	Dense aggregates of strongly degraded material, mostly of woody origin.

## ABBREVIATIONS

**Am** Amorphous  
**He** Herbaceous  
**Cut** Cuticles

**Cy** Cysts, algae  
**P** Pollen grains  
**S** Spores

**W** Woody material  
**C** Coal  
**R!** Reworked

**F** Fine  
**M** Medium  
**L** Large

**IKU**

# Visual Kerogen Analysis

TABLE NO.: 9  
 WELL NO.: 30/4-1

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
M-6236	4229	W, (?Am)	F-M	good	N.D.P	Strongly degraded grey aggregates as above, mixed with bright yellow-brown vitrinite (coaly) fragments. Probably derived from two different lithologies.
M-6282	4370	W, WR!, /Am, Cy	F-M	good to fair	N.D.P	Early Cretaceous, stained dinocysts in a fairly small, well dispersed residue. The woody material is mainly inertinite/vitrinite and fusinite/semifusinite. The colours are fresher than above.
M-6318	4481	W, WR!/Am, Cy	F-M	good to fair	N.D.P	As above with admixtures of greyish degraded material.
M-6367	4631	WR!, W, /Am, Cy	F-M	good to fair	N.D.P	As the two above, but relative increase of woody/coaly material in a smaller residue.

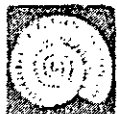
## ABBREVIATIONS

**Am** Amorphous  
**He** Herbaceous  
**Cut** Cuticles

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**S** Spores

**W** Woody material  
**C** Coal  
**R!** Reworked

**F** Fine  
**M** Medium  
**L** Large

**IKU**

# Visual Kerogen Analysis

TABLE NO.: 9  
 WELL NO.: 30/4-1

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
M-6380	4670	W, WR!, Cut, P/Am, Cy	F-M	poor	2, 2+	A pyritic residue with material mainly as aggregates. Degraded woody material seems to dominate.
M-6416	4781	W, WR!, Cut, P/Am	F-M	poor	2	Dense aggregates, mainly of degraded woody material. Pyrite and other minerals formed within the material have damaged structures.
M-6453	4898	W, WR!, Cut, P/Am	F-M	poor	2, 3/3+	As above.
M-6594	5030	W, WR!, Cut, P/Am	F-M	poor	2, 3/3+	As above, but also some vitrinite/coaly fragments of red-brown colour.
M-6541	5171	W, WR!, P, Cut/Am	F-M	poor	2, 3/3+	Dispersed material, richer in semifusinite/fusinite. Fine fraction contains more amorphous material.
M-6580	5288	W, WR!, P, Cut/Am	F-M	poor	3+	

## ABBREVIATIONS

Am Amorphous  
 He Herbaceous  
 Cut Cuticles

Cy Cysts, algae  
 P Pollen grains  
 S Spores

W Woody material  
 C Coal  
 R! Reworked

F Fine  
 M Medium  
 L Large

**IKU**

# Visual Kerogen Analysis

TABLE NO.: 9  
 WELL NO.: 30/4-1

Sample	Depth (m)	Composition of residue	Particle size	Preservation palynomorphs	Thermal maturation index	Remarks
M-6630	5441	Cut, P, S, W/?Am	F-M	poor	2, 3+	Pyritic residue, partly aggregates of crisp looking, strongly degraded, former structured material (pollen, spores, cuticles and semifusinite/fusinite). Traces of fungi.

## ABBREVIATIONS

Am Amorphous  
 He Herbaceous  
 Cut Cuticles

Cy Cysts, algae  
 P Pollen grains  
 S Spores

W Woody material  
 C Coal  
 R! Reworked

F Fine  
 M Medium  
 L Large

What is this?



Sample! sst?

TABLE 9.

ROCK EVAL PYROLYSES

IKU No.	DEPTH m/ft	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT S1+S2	PROD. INDEX S1+S2	TEMP. MAX (C)
M 6282	4370	1.11	14.09	37.51	40.55	35	93	15.20	0.07	413
M 6285	4379	0.84	12.53	18.68	38.74	32	306	13.37	0.06	419
● 6295	4409	1.45	1.59	18.92	9.09	17	208	3.04	0.48	431
M 6299	4421	0.69	0.38	12.50	5.50	7	227	1.07	0.64	420
M 6308	4451	0.98	0.57	3.93	3.88	15	101	1.55	0.63	430
M 6314	4469	1.12	0.78	5.02	4.57	17	110	1.90	0.59	439
M 6318	4481	1.14	2.30	17.15	9.33	25	184	3.44	0.33	438
+21 +90 M 6328	4511	0.67	0.47	4.25	3.32	14	128	1.14	0.59	447
M 6331	4520	0.59	0.45	3.94	3.71	12	106	1.04	0.57	459
+34 +29 M 6342	4553	0.70	0.22	2.78	3.35	7	83	0.92	0.76	415
M 6345	4562	0.65	0.29	2.74	3.41	9	80	0.94	0.69	421
● 6351	4580	0.82	0.39	3.25	3.01	13	108	1.21	0.68	418
M 6360	4610	0.94	2.67	25.84	9.02	30	286	3.61	0.26	436
M 6370	4640	0.81	4.26	79.34	26.36	16	301	5.07	0.16	437

DATE : 22 - 4 - 83.



TABLE 10

R O C K E V A L P Y R O L Y S E S

IKU No.	DEPTH m/ft	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT S1+S2	PROD. INDEX S1 S1+S2	TEMP. MAX (C)
I M 6018	3240	0.45	0.28	0.76	0.93	30	82	0.73	0.62	432
I M 6024	3270	0.38	0.11	0.10	0.70	16	14	0.49	0.78	342
I M 6030	3300	0.30	0.10	0.32	0.69	14	46	0.40	0.75	282
I M 6036	3330	0.31	0.09	0.26	0.66	14	39	0.40	0.77	279
I M 6042	3360	0.28	0.07	0.24	0.59	12	41	0.35	0.80	282
I M 6048	3390	0.28	0.08	0.15	0.60	13	25	0.36	0.78	370
I M 6054	3420	0.29	0.03	0.05	0.67	4	7	0.32	0.91	274
I M 6060	3450	0.29	0.06	0.13	0.56	11	23	0.35	0.83	321
I M 6066	3480	0.37	0.17	0.51	0.87	20	59	0.54	0.69	346
I M 6072	3510	0.23	0.05	0.05	0.55	9	9	0.28	0.82	330
I M 6074	3520	0.32	0.11	0.21	0.63	17	33	0.43	0.74	273
I M 6076	3530	0.36	0.06	0.29	0.62	10	47	0.42	0.86	309
I M 6078	3540	0.21	0.03	0.25	0.58	5	43	0.24	0.88	263
I M 6080	3550	0.33	0.10	0.21	0.69	14	30	0.43	0.77	288
I M 6082	3560	0.27	0.12	0.24	0.60	20	40	0.39	0.69	324
I M 6084	3570	0.24	0.10	0.15	0.61	16	25	0.34	0.71	282
I M 6086	3580	0.34	0.13	0.72	0.61	21	118	0.47	0.72	376
I M 6088	3590	0.32	0.21	0.00	0.51	41	0	0.53	0.60	402
I M 6092	3610	0.30	0.19	0.11	0.51	37	22	0.49	0.61	371
I M 6094	3620	0.98	0.40	0.00	0.63	63	0	1.38	0.71	359
I M 6096	3630	0.52 C1st	0.33	0.00	0.65	51	0	0.85	0.61	422
I M 6098	3640	0.33 C1st	0.18	0.30	0.56	32	54	0.51	0.65	345
I M 6100	3650	0.29	0.10	0.25	0.56	18	45	0.39	0.74	316



TABLE 10

R O C K   E V A L   P Y R O L Y S E S

IKU No.	DEPTH (m)	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT S1+S2	PROD. INDEX S1+S2	TEMP. MAX (C)
M 6136	3830	0.31	0.43	0.59	0.62	69	95	0.74	0.42	417
		Clst, sv								
M 6136	3830	1.62	2.04	0.60	2.25	91	27	3.66	0.44	439
		Clst, dk sv								
M 6138	3840	0.35	0.11	0.62	0.62	18	100	0.46	0.76	446
M 6140	3850	0.66	0.43	1.30	0.57	75	228	1.09	0.61	369
		Clst, turbo								
M 6140	3850	0.21	0.16	0.74	0.60	27	123	0.37	0.57	368
		Clst								
M 6142	3860	0.25	0.21	0.59	0.57	37	104	0.46	0.54	409
M 6144	3870	0.29	0.25	0.82	0.62	40	132	0.54	0.54	441
M 6146	3880	0.37	0.24	0.96	0.52	46	135	0.61	0.61	438
M 6148	3890	0.25	0.22	1.05	0.54	41	194	0.47	0.53	425
M 6150	3900	0.53	0.30	1.01	0.56	54	180	0.83	0.64	399
M 6152	3910	1.05	0.90	2.54	1.16	78	219	1.95	0.54	403
M 6154	3920	0.25	0.19	0.52	0.68	28	76	0.44	0.57	402
M 6156	3930	0.26	0.23	0.75	0.69	33	109	0.49	0.53	434
6158	3940	0.31	0.39	1.10	0.76	51	145	0.70	0.44	422
M 6160	3950	0.33	0.22	0.74	0.68	32	109	0.55	0.60	355
M 6162	3960	0.23	0.18	0.69	0.70	26	99	0.41	0.56	431
M 6164	3970	0.35	0.36	0.37	0.89	40	42	0.71	0.49	443
M 6166	3980	0.41	0.13	0.81	0.84	15	96	0.54	0.76	364
M 6168	3990	0.29	0.08	0.33	0.66	12	50	0.37	0.78	355
		Clst, turbo								
M 6168	3990	0.19	0.14	0.54	0.62	23	87	0.33	0.58	368
		Clst								
M 6170	4000	0.30	0.21	0.66	0.64	33	103	0.51	0.59	398
M 6172	4010	0.25	0.13	0.55	0.65	20	85	0.38	0.66	378

TABLE 10

ROCK EVAL PYROLYSES

I	I	I	I	I	I	I	I	I	I	I	I	
I	IKU	DEPTH	:	S1	S2	S3	TOC	HYDR.	OXYGEN	OIL OF	PROD. TEMP.	
I	No.	(m)	:	(%)			(%)	INDEX	INDEX	GAS	INDEX	
I			:							CONTENT	MAX	
I			:							S1+82	(C)	
I			:							S1		
I			:							-----		
I			:							S1+82		
I	M 6174	4020	:	0.27	0.06	0.25	0.65	9	38	0.33	0.82	317
I			:	Clst,	turbo							
I	M 6174	4020	:	0.32	0.18	0.23	0.70	26	40	0.50	0.64	373
I			:	Clst,	sv							
I	M 6176	4030	:	0.44	0.13	0.35	1.04	13	34	0.57	0.77	349
I			:	Clst,	turbo							
I	M 6176	4030	:	0.35	0.26	0.26	0.77	34	34	0.61	0.57	467
I			:	Clst,	sv							
I	6178	4040	:	0.44	0.28	0.31	1.02	27	30	0.72	0.61	450
I			:									
I	M 6180	4050	:	0.39	0.20	0.50	1.38	14	36	0.59	0.66	451
I			:	Clst,	sv							
I	M 6180	4050	:	0.68	0.41	0.33	1.53	27	22	1.09	0.62	458
I			:	Clst,	dk sv							
I	M 6182	4060	:	0.39	0.24	0.39	0.74	32	53	0.63	0.62	430
I			:	Clst,	sv							
I	M 6182	4060	:	0.64	0.38	0.38	1.40	27	27	1.02	0.63	465
I			:	Clst,	dk sv							
I	M 6184	4070	:	0.22	0.17	0.32	0.55	31	58	0.39	0.56	445
I			:									
I	M 6188	4082	:	0.55	0.47	0.34	0.86	55	40	1.02	0.54	467
I			:									
I	M 6190	4088	:	0.48	0.59	0.45	0.93	63	48	1.07	0.45	447
I			:									
I	M 6194	4100	:	0.35	0.33	0.34	0.78	42	44	0.68	0.51	474
I			:									
I	6198	4112	:	0.33	0.30	0.39	0.81	37	48	0.63	0.52	473
I			:									
I	M 6201	4121	:	0.44	0.42	0.53	1.03	41	51	0.86	0.51	458
I			:									
I	M 6204	4130	:	0.38	0.35	0.29	0.83	42	35	0.73	0.52	473
I			:									
I	M 6207	4139	:	0.72	4.21	5.12	0.54	780	948	4.93	0.15	429
I			:									
I	M 6211	4151	:	0.35	0.32	0.76	1.06	30	72	0.67	0.52	468
I			:									
I	M 6214	4160	:	0.26	0.10	0.88	0.58	17	152	0.36	0.72	392
I			:									
I	M 6217	4169	:	0.31	0.17	0.82	0.64	27	128	0.48	0.65	356
I			:									
I	M 6221	4181	:	0.54	0.22	0.98	0.83	27	118	0.76	0.71	432
I			:									
I	M 6224	4190	:	0.61	0.25	0.62	0.54	46	115	0.86	0.71	428
I			:									
I	M 6227	4199	:	0.63	0.30	0.66	0.68	44	97	0.93	0.68	475
I			:									



TABLE 10

R O C K   E V A L   P Y R O L Y S E S

IKU No.	DEPTH (m)	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT S1+S2	PROD. INDEX S1	TEMP. MAX (C)
I M 6304	4439	0.42	0.28	0.69	0.61	46	113	0.70	0.60	419
I M 6308	4451	0.34	0.27	0.61	0.67	40	121	0.61	0.56	424
I M 6311	4460	0.45	0.34	0.46	0.62	55	74	0.79	0.57	420
I M 6314	4469	0.32	0.28	0.73	0.66	42	111	0.60	0.53	419
I M 6318	4481	0.36	0.34	0.74	0.69	49	107	0.70	0.51	427
I M 6321	4490	0.35	0.32	0.75	0.58	55	129	0.67	0.52	429
I M 6324	4499	0.33	0.24	0.55	0.68	35	81	0.57	0.58	390
I M 6328	4511	0.26	0.24	0.87	0.65	37	134	0.50	0.52	423
I M 6331	4520	0.29	0.20	0.47	0.54	37	87	0.49	0.59	428
I M 6334	4529	0.31	0.26	0.54	0.62	42	87	0.57	0.54	475
I M 6338	4541	0.53	0.35	0.56	0.60	58	93	0.88	0.60	414
I M 6338	4541	0.83	0.30	1.09	2.22	14	49	1.13	0.73	354
I M 6342	4553	1.04	0.62	0.65	0.80	77	81	1.66	0.63	370
I M 6345	4562	0.49	0.36	0.56	0.55	65	102	0.85	0.58	417
I M 6345	4562	0.29	0.22	0.46	0.66	33	70	0.51	0.57	477
I M 6348	4571	0.19	0.18	0.57	0.62	29	92	0.37	0.51	450
I M 6348	4571	1.26	0.84	1.03	2.21	38	47	2.10	0.60	398
I M 6351	4580	0.29	0.15	0.47	0.56	27	84	0.44	0.66	459
I M 6354	4589	0.30	0.45	0.54	0.65	69	83	0.75	0.40	466
I M 6354	4589	1.24	1.18	0.63	2.34	50	27	2.42	0.51	459
I M 6357	4598	0.27	0.35	0.49	0.64	55	77	0.62	0.44	470
I M 6360	4610	0.29	0.26	0.46	0.62	42	74	0.55	0.53	477
I M 6363	4619	0.41	0.60	0.68	0.51	118	133	1.01	0.41	384

TABLE 10

ROCK EVAL PYROLYSES

IKU No.	DEPTH (m)	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT	PROD. INDEX S1	TEMP. MAX (C)	
M 6367	4631	1.13	0.98	0.56	1.79	55	31	2.11	0.54	454	
		Silt/Clst dk gy									
M 6373	4649	0.61	0.54	0.53	0.58	93	91	1.15	0.53	473	
		Clst, lt gy									
M 6373	4649	0.70	0.69	0.53	1.40	49	38	1.39	0.50	450	
		Silt/Clst dk gy									
M 6377	4661	0.41	0.45	0.55	0.51	88	108	0.86	0.48	382	
		Clst, lt gy									
M 6377	4661	1.15	0.94	0.82	2.43	39	34	2.09	0.55	450	
		Silt/Clst dk gy									
M 6380	4670	0.37	0.32	0.52	0.59	54	88	0.69	0.54	419	
		Clst, gy									
M 6380	4670	1.37	1.28	0.82	2.98	43	28	2.65	0.52	445	
		Silty Clst, dk gy									
M 6383	4679	1.00	0.92	0.71	2.10	44	34	1.92	0.52	456	
		Silty Clst, dk gy									
M 6387	4691	0.85	0.96	0.84	2.69	36	31	1.81	0.47	445	
		Silty Clst, dk gy									
M 6390	4700	0.42	0.37	0.40	0.56	66	71	0.79	0.53	419	
		Clst, lt gy									
M 6390	4700	0.97	1.01	0.61	2.21	46	28	1.98	0.49	455	
		Silty Clst, dk gy									
M 6393	4709	0.26	0.28	0.47	0.54	52	87	0.54	0.48	421	
		Clst, lt gy									
M 6393	4709	0.92	0.89	0.71	2.22	40	32	1.81	0.51	451	
		Silty Clst, dk gy									
M 6396	4718	0.37	0.32	0.53	0.56	57	95	0.69	0.54	418	
		Clst, lt gy									
M 6396	4718	0.94	0.73	0.69	1.94	38	36	1.67	0.56	446	
		Silty Clst, dk gy									
M 6399	4730	0.85	0.87	0.59	2.38	37	25	1.72	0.49	457	
		Silty Clst, dk gy									
M 6402	4739	0.89	0.89	0.86	2.01	44	43	1.78	0.50	458	
		Silty Clst, dk gy									
M 6406	4751	0.20	0.15	0.36	0.52	29	69	0.35	0.57	475	
		Clst, lt gy									
M 6406	4751	0.84	0.98	0.50	2.19	45	23	1.82	0.46	454	
		Silty Clst, dk gy									
M 6409	4760	1.08	0.99	0.63	2.47	40	26	2.07	0.52	450	
		Silty Clst, dk gy									
M 6412	4769	0.35	0.33	0.44	0.72	46	61	0.68	0.51	471	
		Clst, gy									
M 6412	4769	1.20	1.04	0.76	3.17	33	24	2.24	0.54	442	
		Silty Clst, dk gy									
M 6416	4781	0.33	0.36	0.53	0.52	69	102	0.69	0.48	375	
		Clst, lt gy									









TABLE 10

R O C K   E V A L   P Y R O L Y S E S

IKU No.	DEPTH (m)	S1	S2	S3	TOC (%)	HYDR. INDEX	OXYGEN INDEX	OIL OF GAS CONTENT S1+S2	PROD. INDEX S1+S2	TEMP. MAX (C)
M 6573	5267	0.69	0.59	0.35	2.72	22	13	1.28	0.54	456
M 6577	5279	0.70	0.37	0.54	2.31	16	23	1.07	0.65	486
M 6580	5288	0.82	0.37	0.44	3.21	12	14	1.19	0.69	521
M 6584	5300	0.64	0.31	0.55	2.12	15	26	0.95	0.67	474
M 6587	5309	0.60	0.26	0.42	2.05	13	20	0.86	0.70	434
M 6590	5318	0.34	0.16	0.41	1.73	9	24	0.50	0.68	445
M 6594	5330	0.44	0.31	0.68	1.87	17	36	0.75	0.59	493
M 6597	5339	0.53	0.37	0.26	1.84	20	14	0.90	0.59	486
M 6597	5339	1.10	3.43	6.70	12.54	27	53	4.53	0.24	417
M 6600	5348	0.62	0.90	0.39	2.44	37	16	1.52	0.41	447
M 6604	5360	0.62	0.70	0.24	2.04	34	12	1.32	0.47	445
M 6607	5369	0.58	0.86	0.37	2.47	35	15	1.44	0.40	466
M 6610	5378	0.59	0.51	0.52	2.05	25	25	1.10	0.54	483
M 6614	5390	0.51	0.37	0.36	1.87	20	19	0.88	0.58	498
M 6617	5399	0.57	0.48	0.36	1.71	28	21	1.05	0.54	479
M 6620	5408	0.51	0.50	0.35	2.10	24	17	1.01	0.50	492
M 6624	5420	0.67	0.63	0.46	2.34	27	20	1.30	0.52	473
M 6627	5429	0.68	0.64	0.61	2.09	31	29	1.32	0.52	485
M 6630	5441	0.92	0.79	0.28	2.40	33	12	1.71	0.54	465
M 6633	5450	0.70	0.50	0.47	2.20	23	21	1.20	0.58	486

DATE : 31 - 1 - 83.

3480

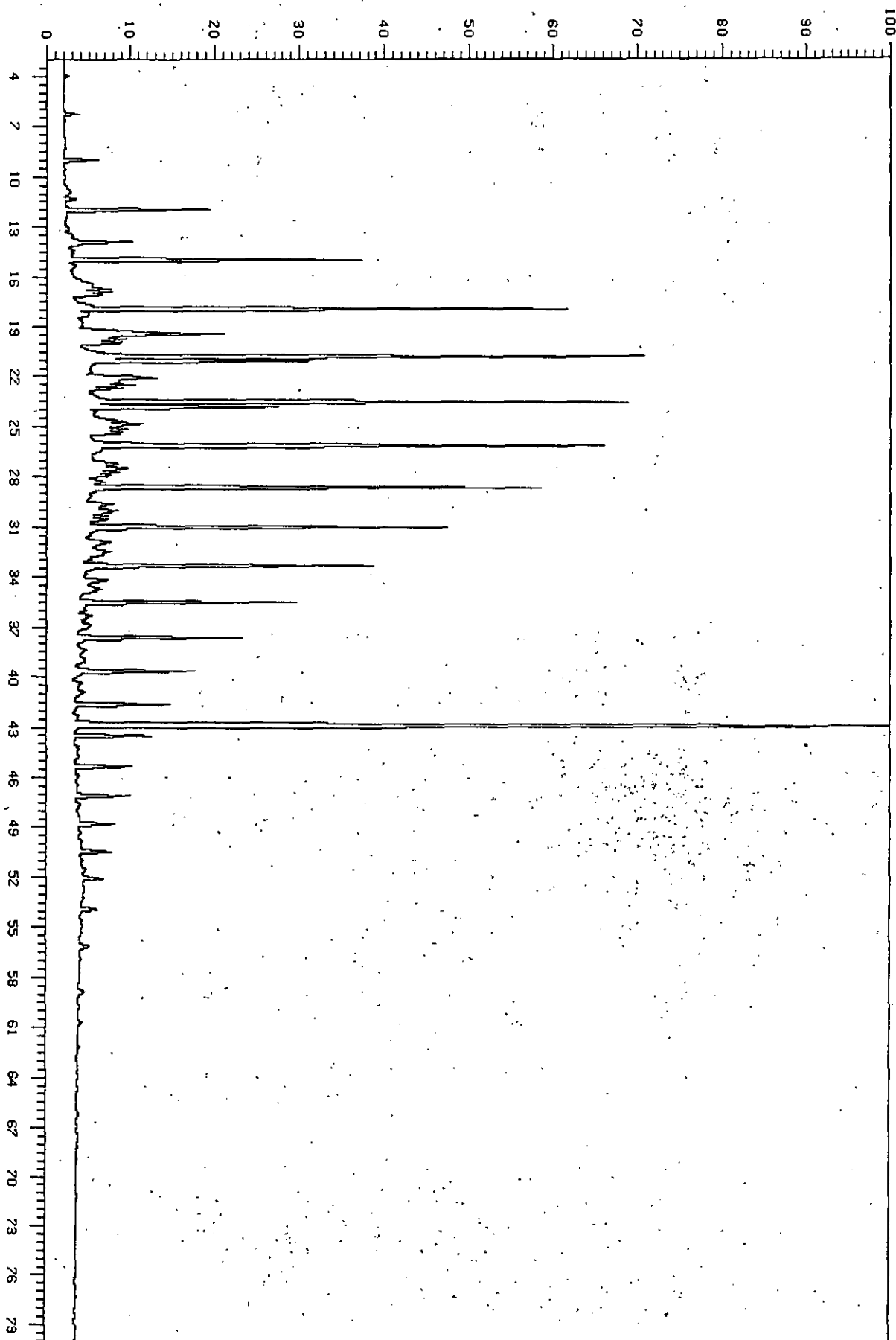
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M6066S1. Sample #: 1 Injection #: 1

Sample Name :M-6066,S,30/4-1,AD

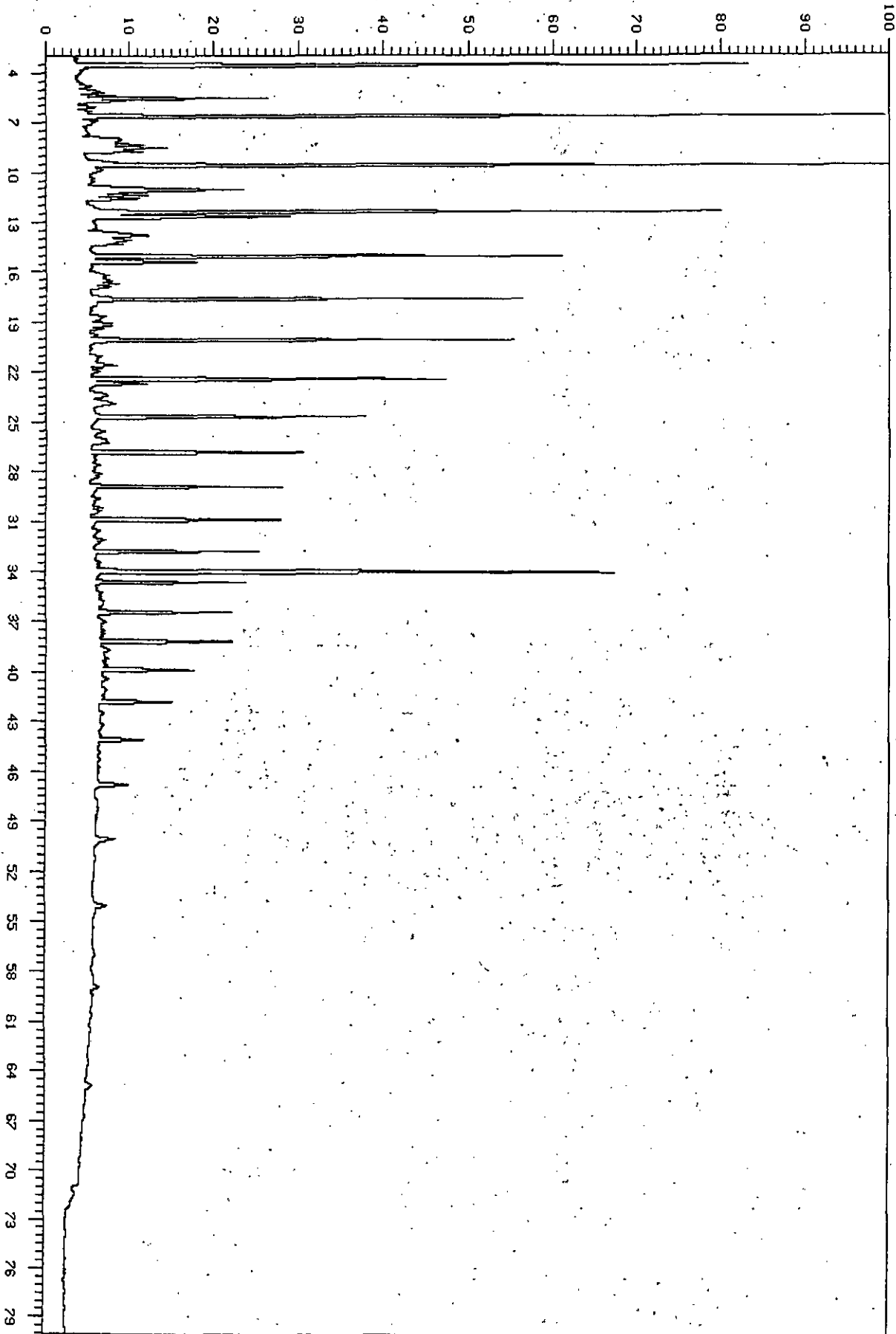
Maximum signal (%): 26.44



Analysis : 6410M6096S1 Sample #: 1 Injection #: 1

Sample Name : M-6096,S,30/4-1,AD

Maximum signal (%): 12.15



Printed at 13:33 on 28/Feb/83

RAW DATA PLOT-CHANNEL 5

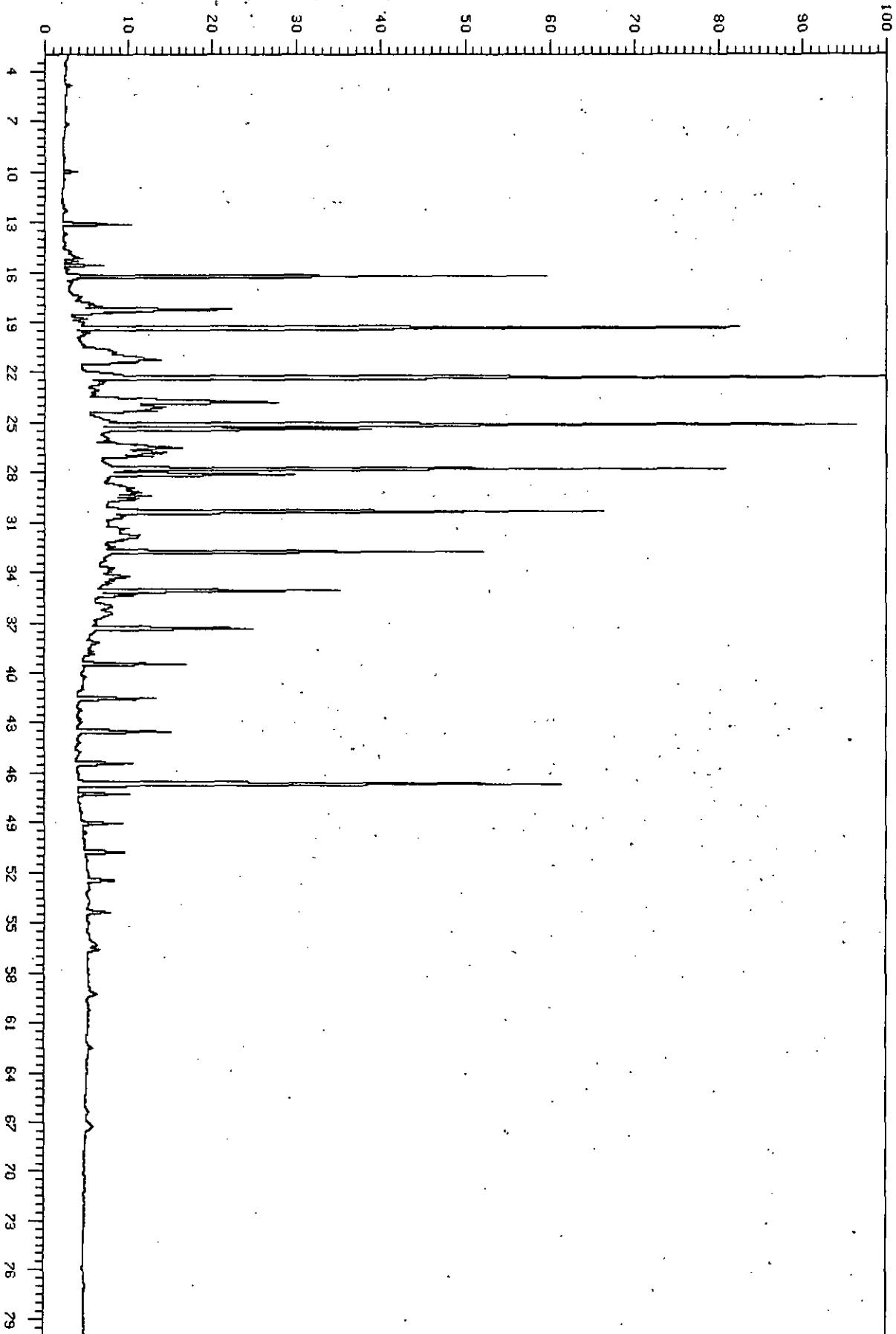
376.0  
+ 377.0

Box 1 of 1

Analysis :6410M6122S1 Sample #: 1 Injection #: 1

Sample Name :M-6122,S,30/4-1,AD

Maximum signal (%): 19.76



3980

Printed at 08:04 on 25/Feb/83

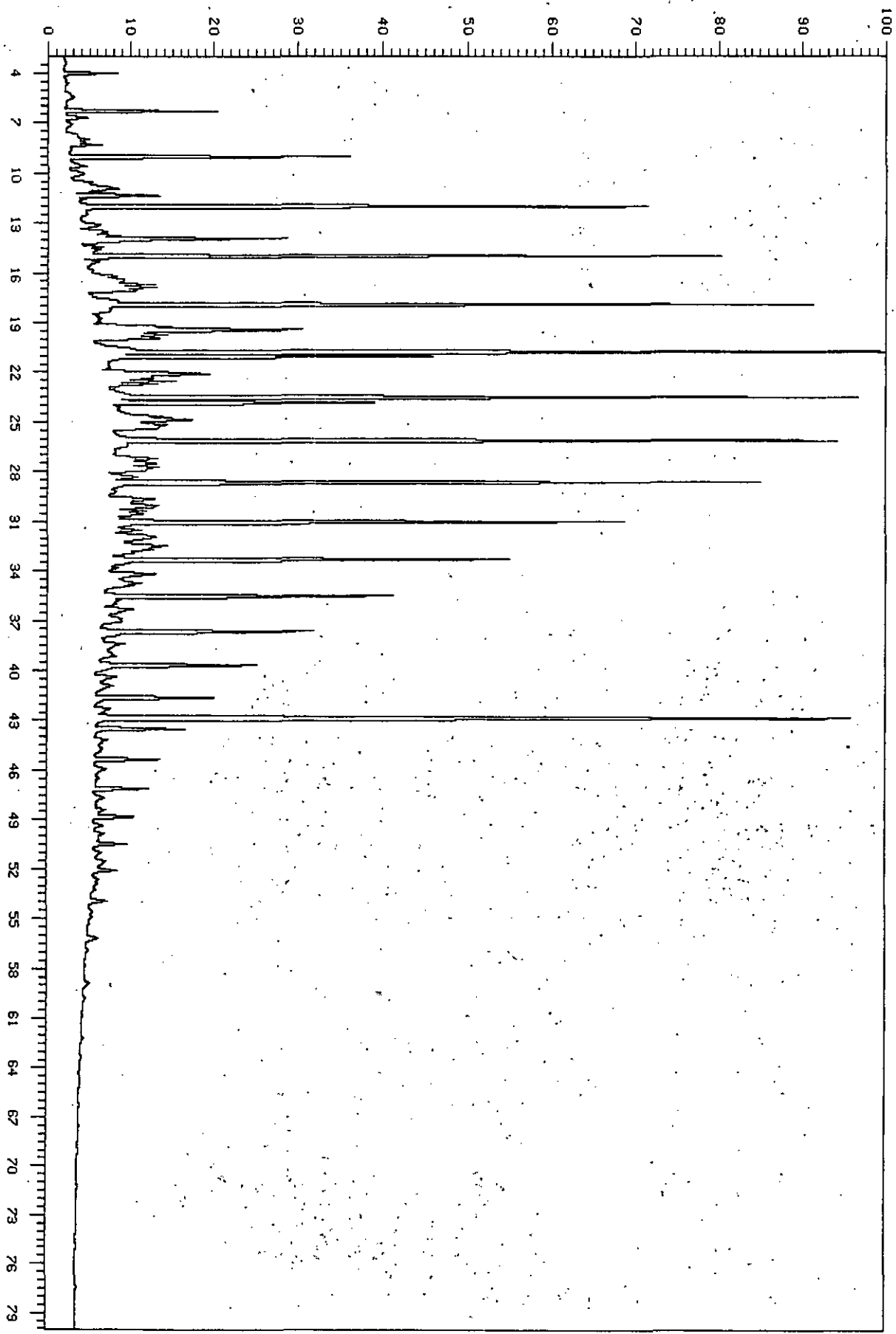
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M6166S1 Sample #: 1 Injection #: 1

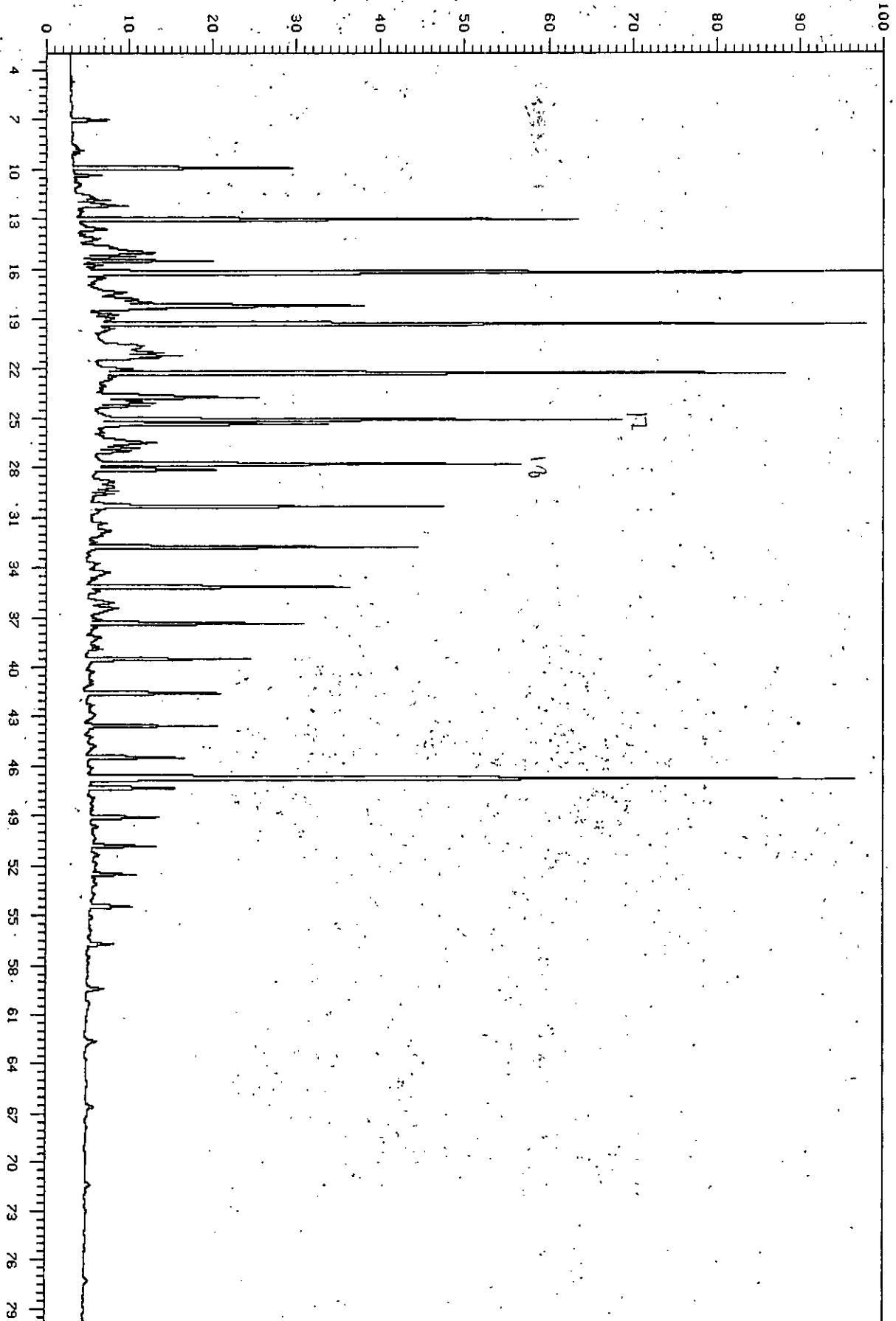
Sample Name :M-6166,S,30/4-1,AD

Maximum signal (%): 29.66



4040

Analysis : 6410M6178S1 Sample #: 1 Injection #: 1  
Sample Name : M-6178,S,30/4-1,AD Maximum signal (%): 24.97





Printed at 13:34 on 25/Feb/83

4100

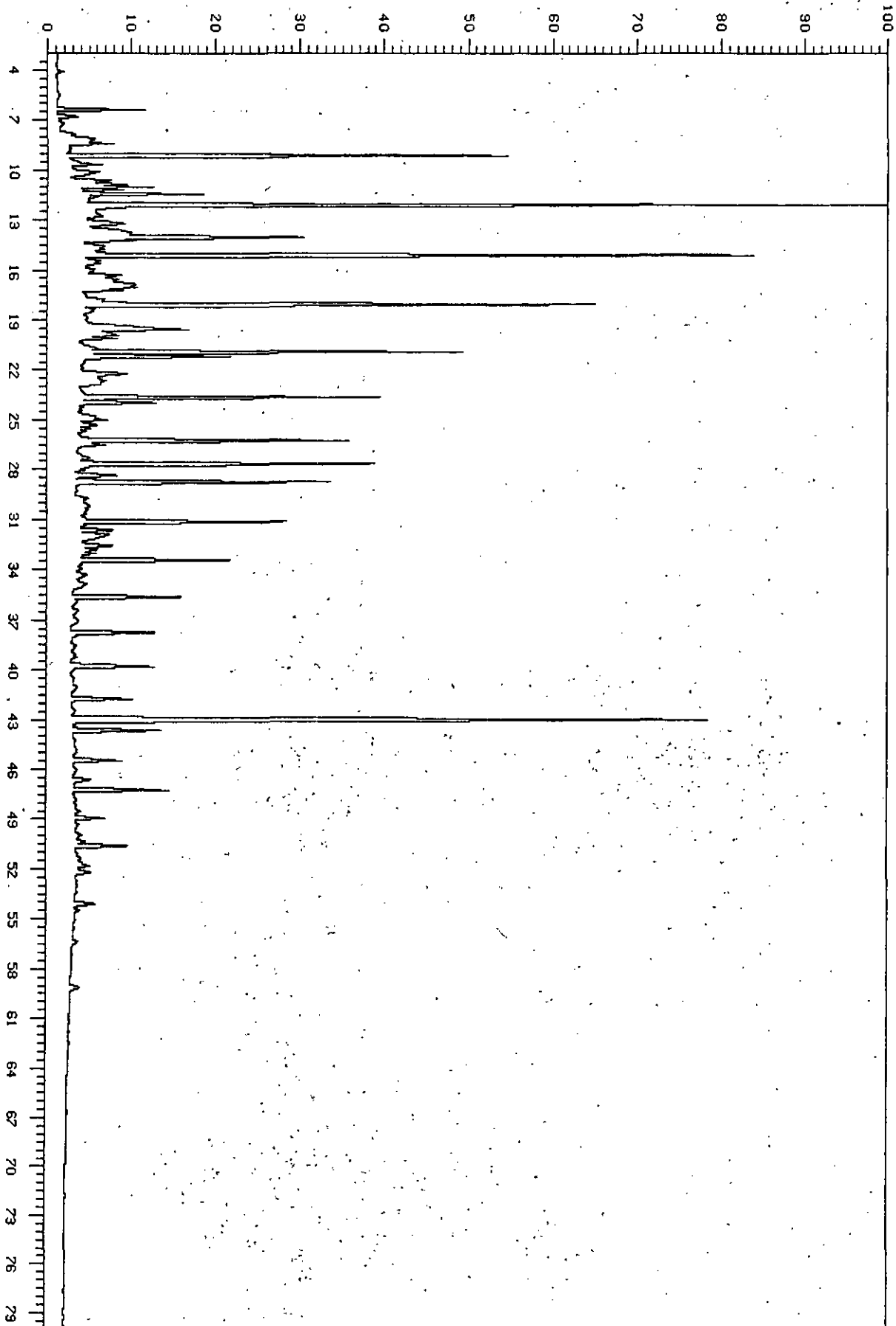
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M6194S1 Sample #: 1 Injection #: 1

Sample Name :M-6194,S,30/4-1,AD

Maximum signal (%): 46.39



Printed at 14:53 on 25/Feb/83

4223

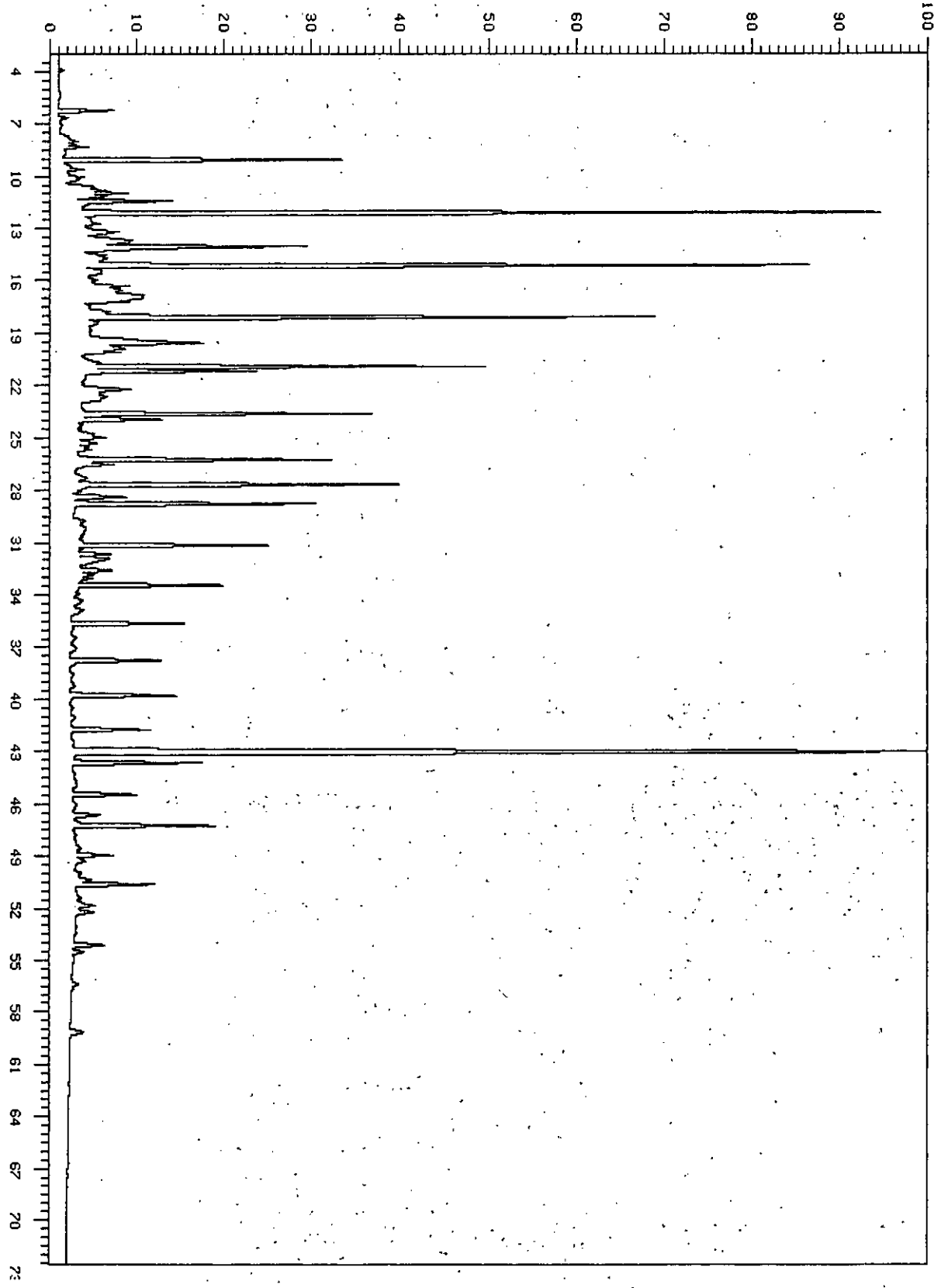
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M6234S1 Sample #: 1 Injection #: 1

Sample Name :M-6234,S,30/4-1,AD

Maximum signal (%): 52.57

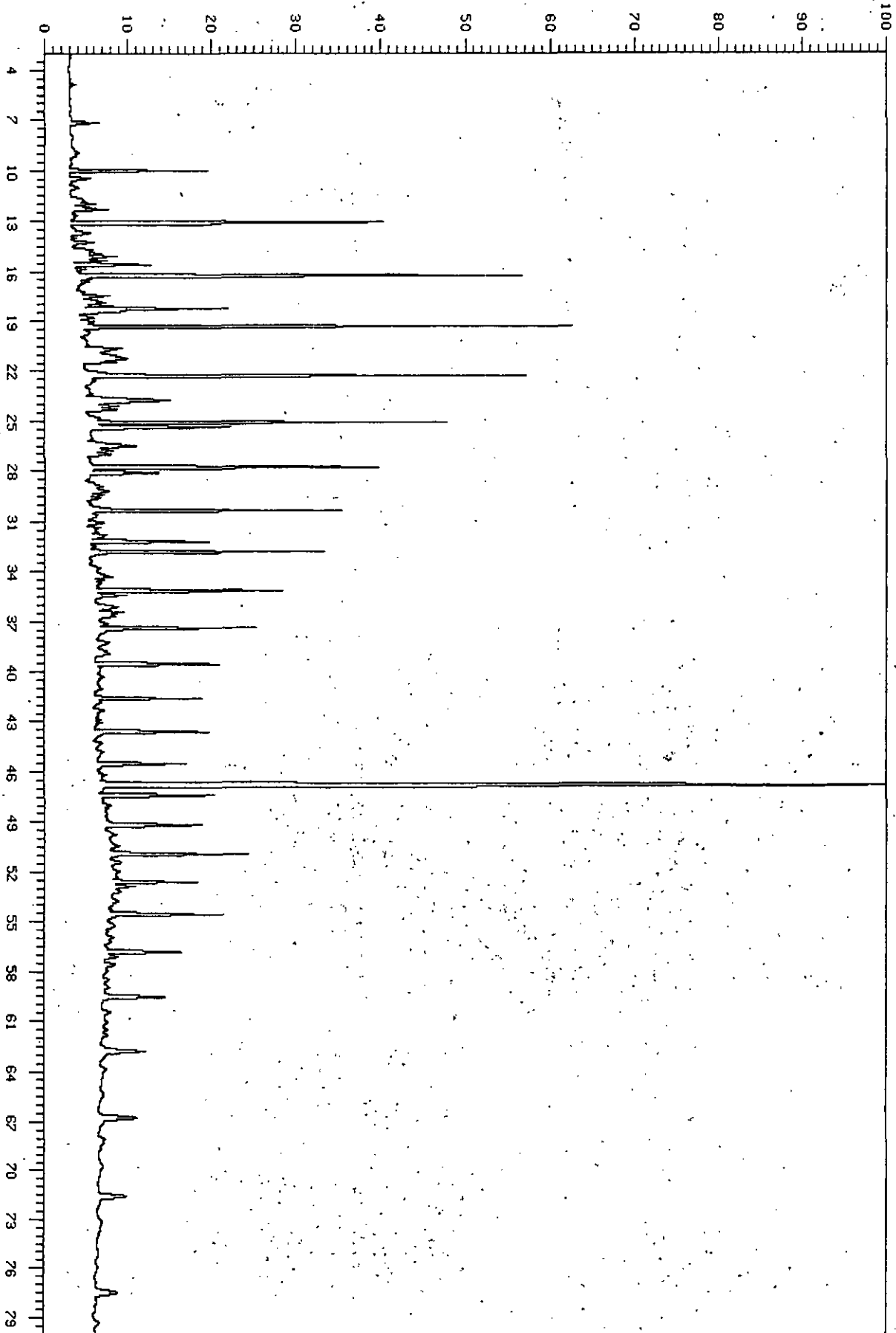


4328

RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis : 6410M6268S1 Sample #: 1 Injection #: 1  
Sample Name : M-6268,S,30/4-1,AD Maximum signal (%): 15.15



Printed at 11:23 on 28/Feb/83

44.00

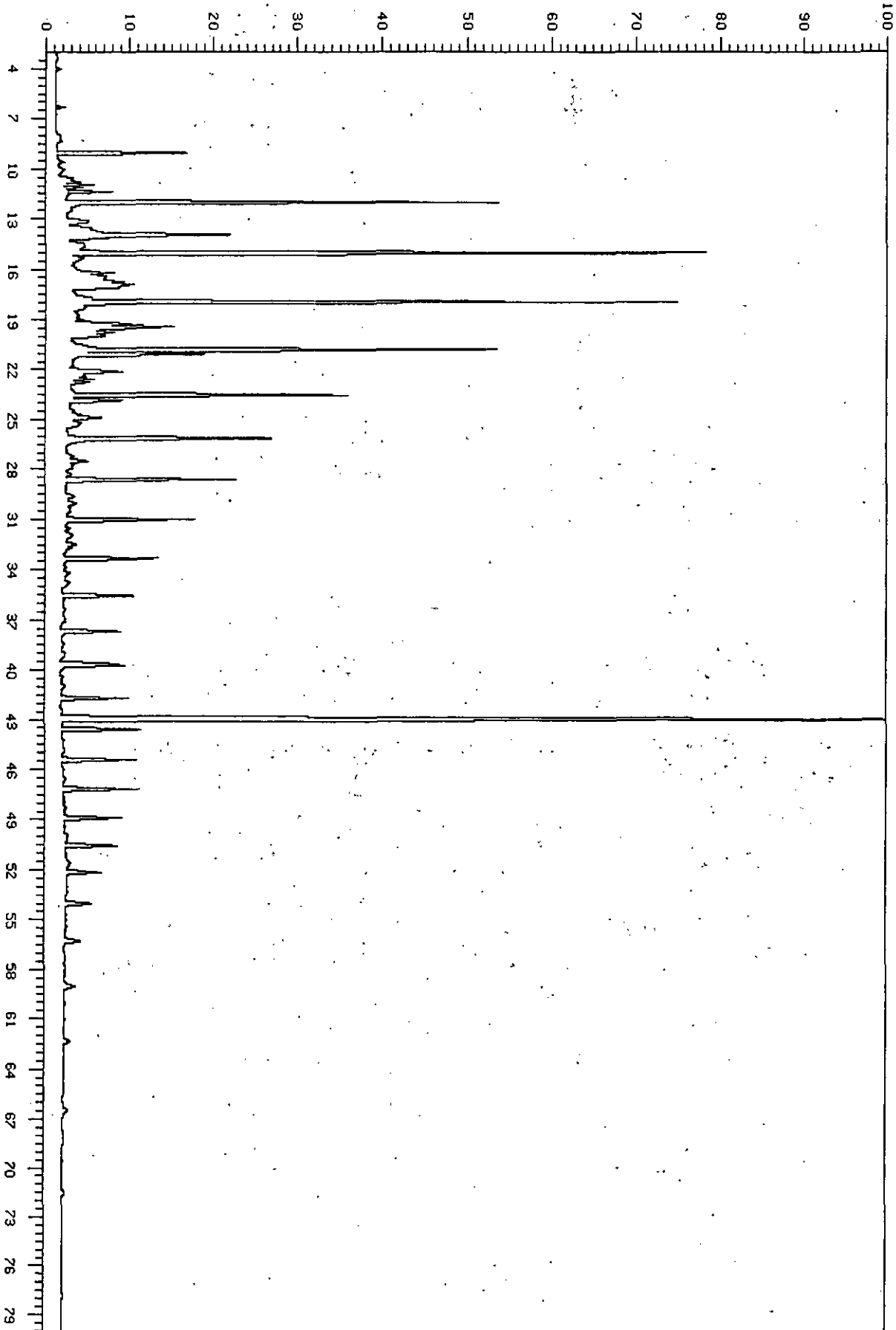
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M629251 Sample #: 1 Injection #: 1

Sample Name :M-6292,S,30/4-1,AD

Maximum signal (%): 45.11



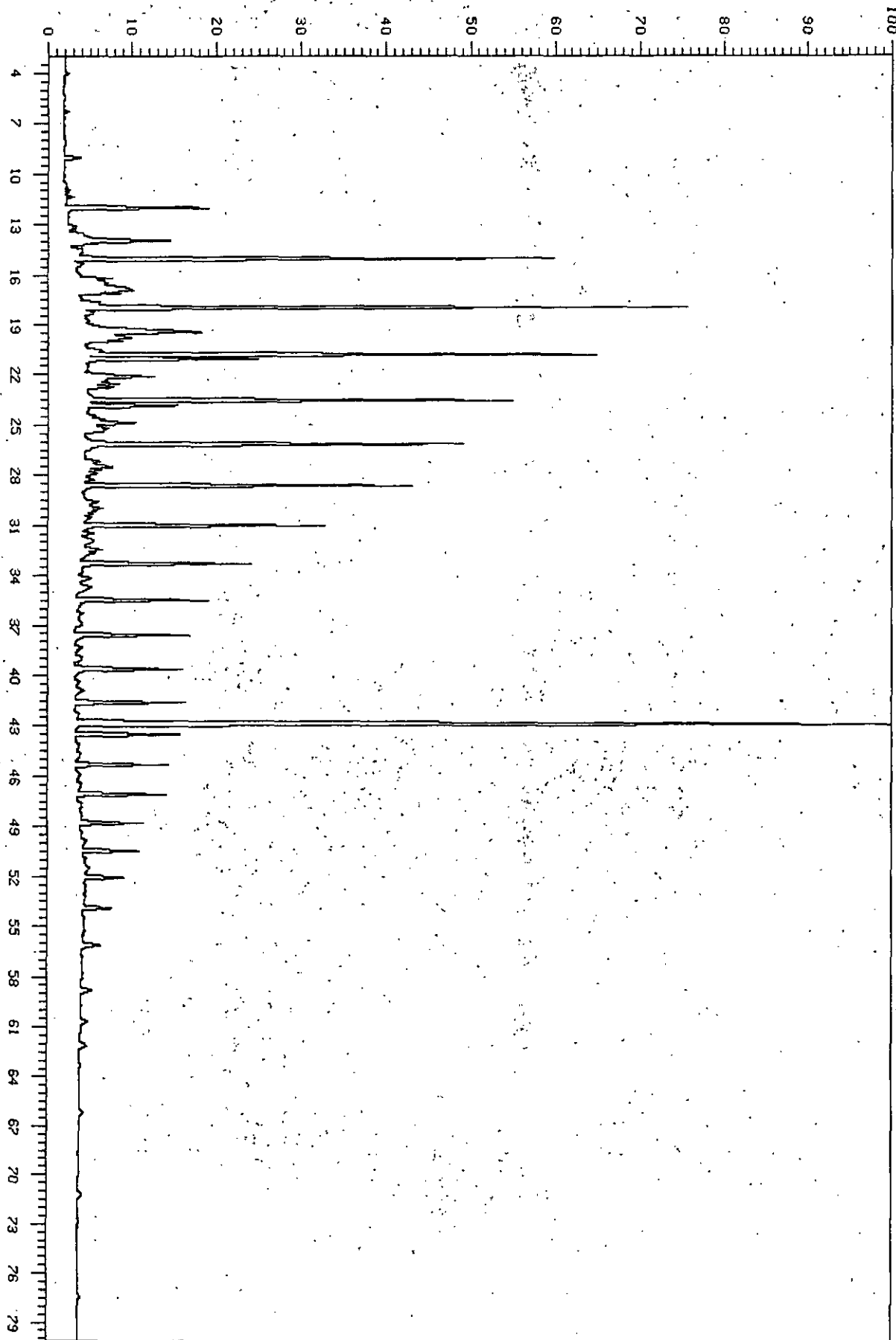
4541

Printed at 13:35 on 28/Feb/83

RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6338S1 Sample #: 1 Injection #: 1  
Sample Name : M-6338,S,30/4-1,AD Maximum signal (%): 27.61



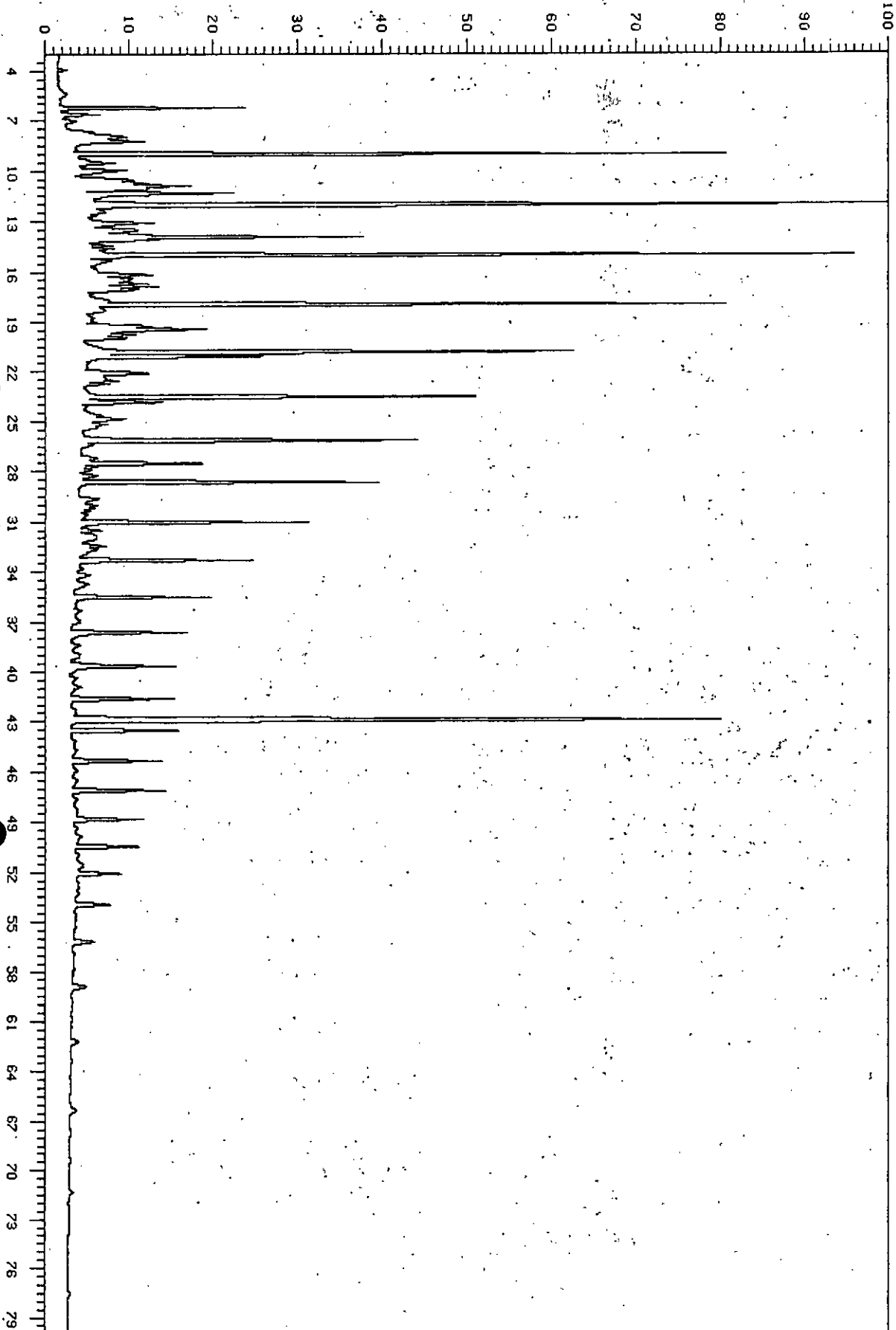
Printed at 15:20 on 28/Feb/83

4631

RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6367S1 Sample #: -1 Injection #: 1  
Sample Name : M-6367,S,30/4-1,AD Maximum signal (%): 40.18



Printed at 08:36 on 29/Feb/83

4661

RAW DATA PLOT-CHANNEL 5

Box 1 of 1

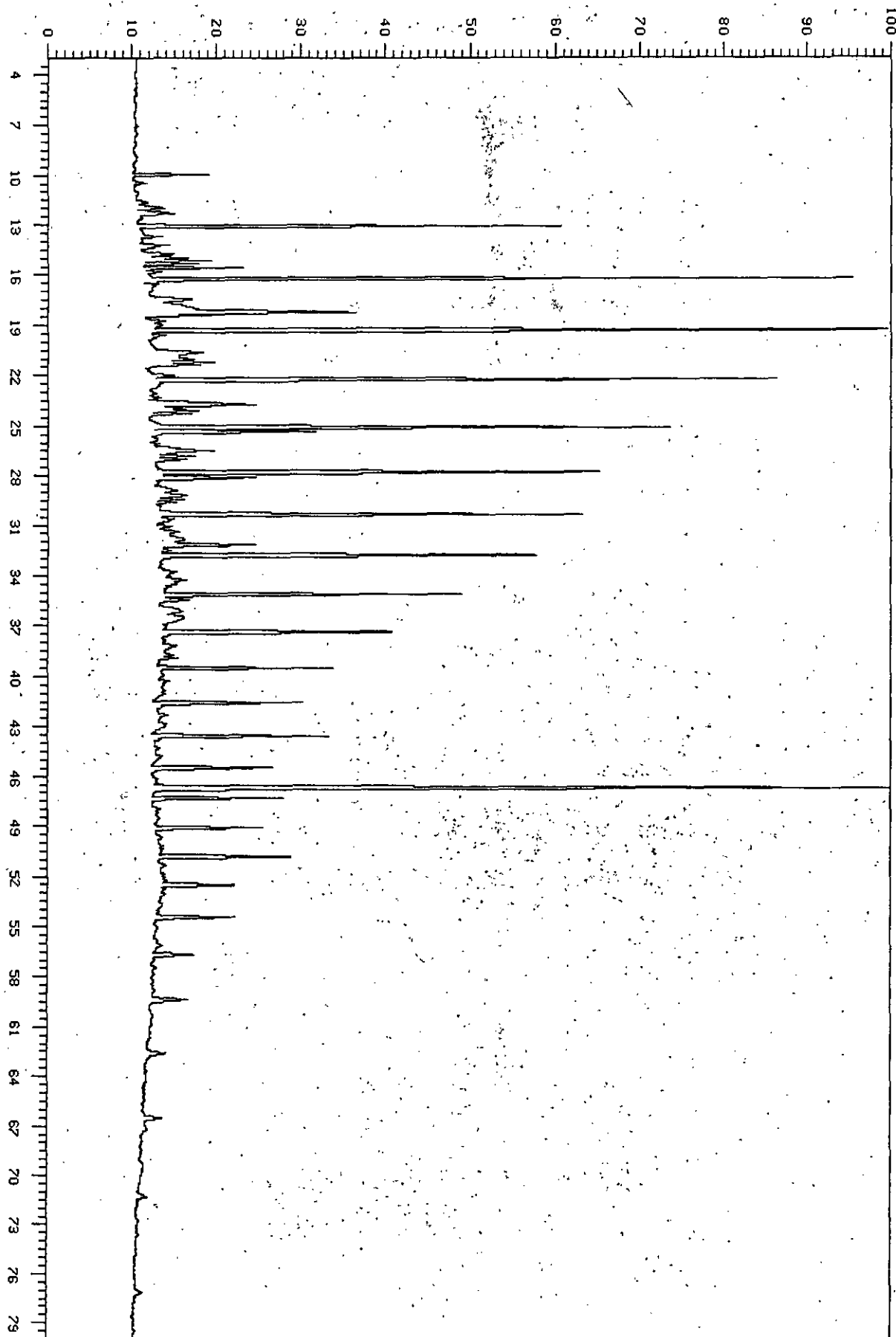
Analysis :6410M6377S1

Sample #: 1

Injection #: 1

Sample Name :M-6377,S,30/4-1,AD

Maximum signal (%): 8.61



Printed at 08:38 on 29/Feb/83

718

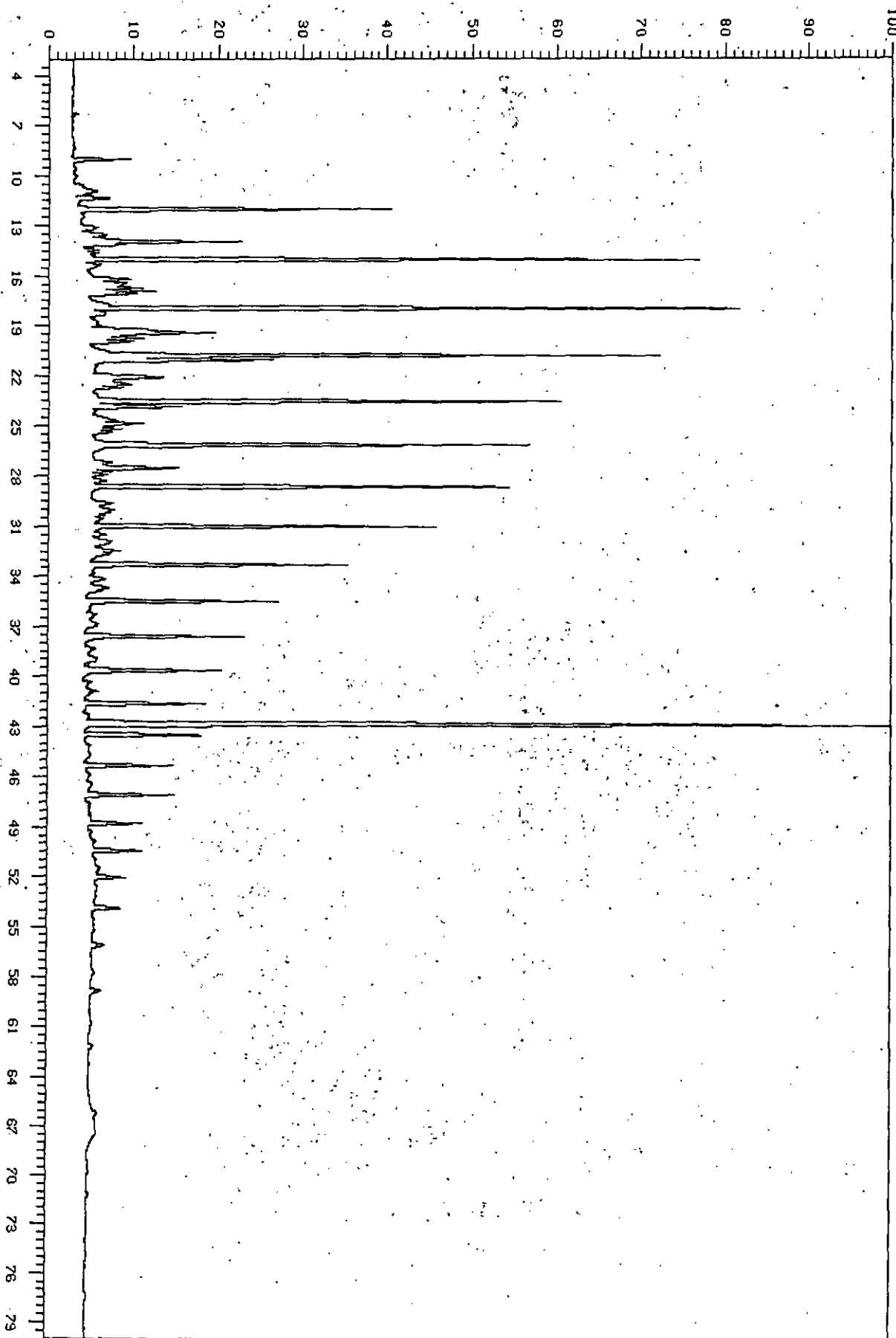
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6396S1 , Sample #: 1 Injection #: 1

Sample Name : M-6396,S,30/4-1,AD

Maximum signal (%): 21.41





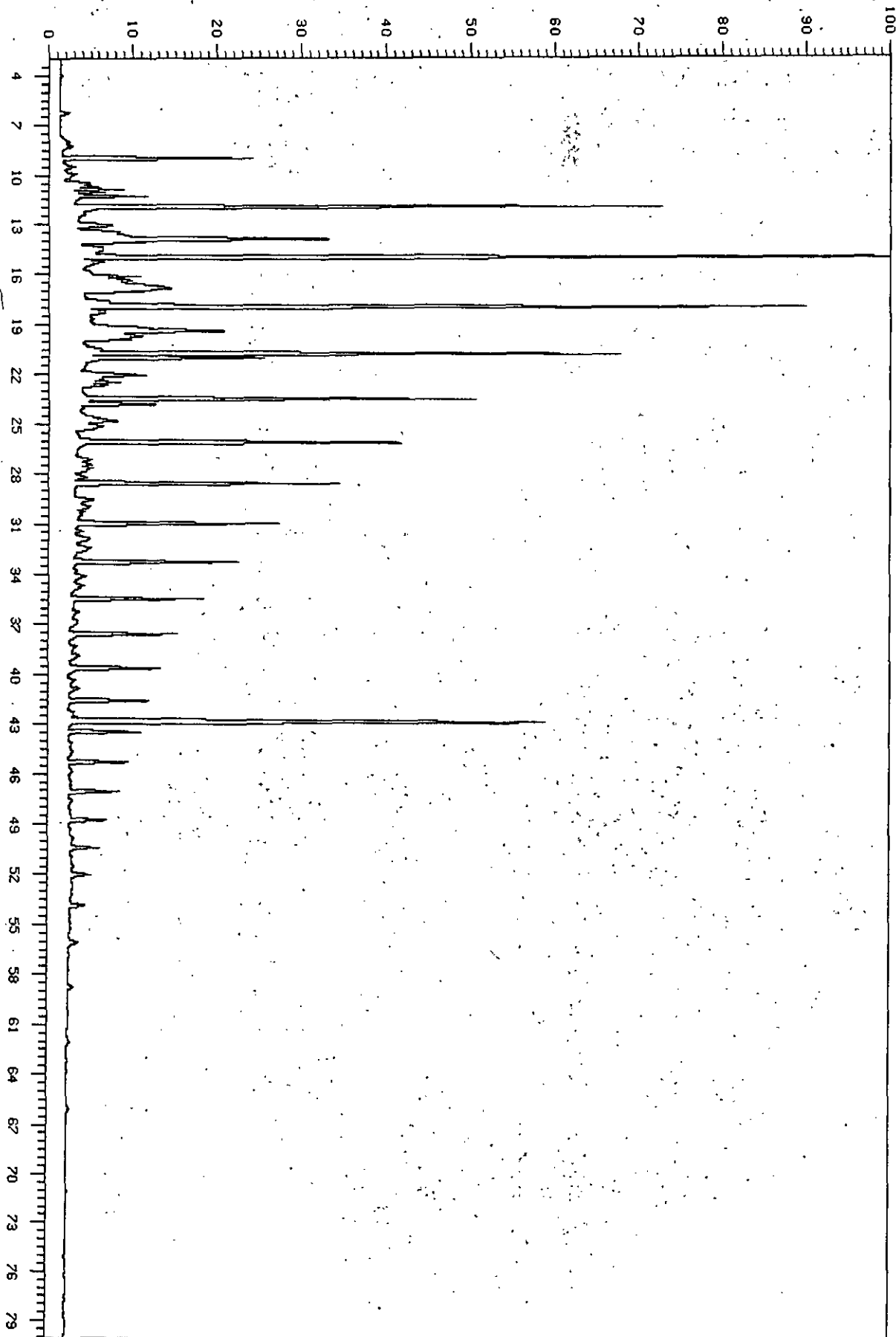
Printed at 10:39 on 01/Mar/83

48.29

RAW DATA PLOT-CHANNEL 6

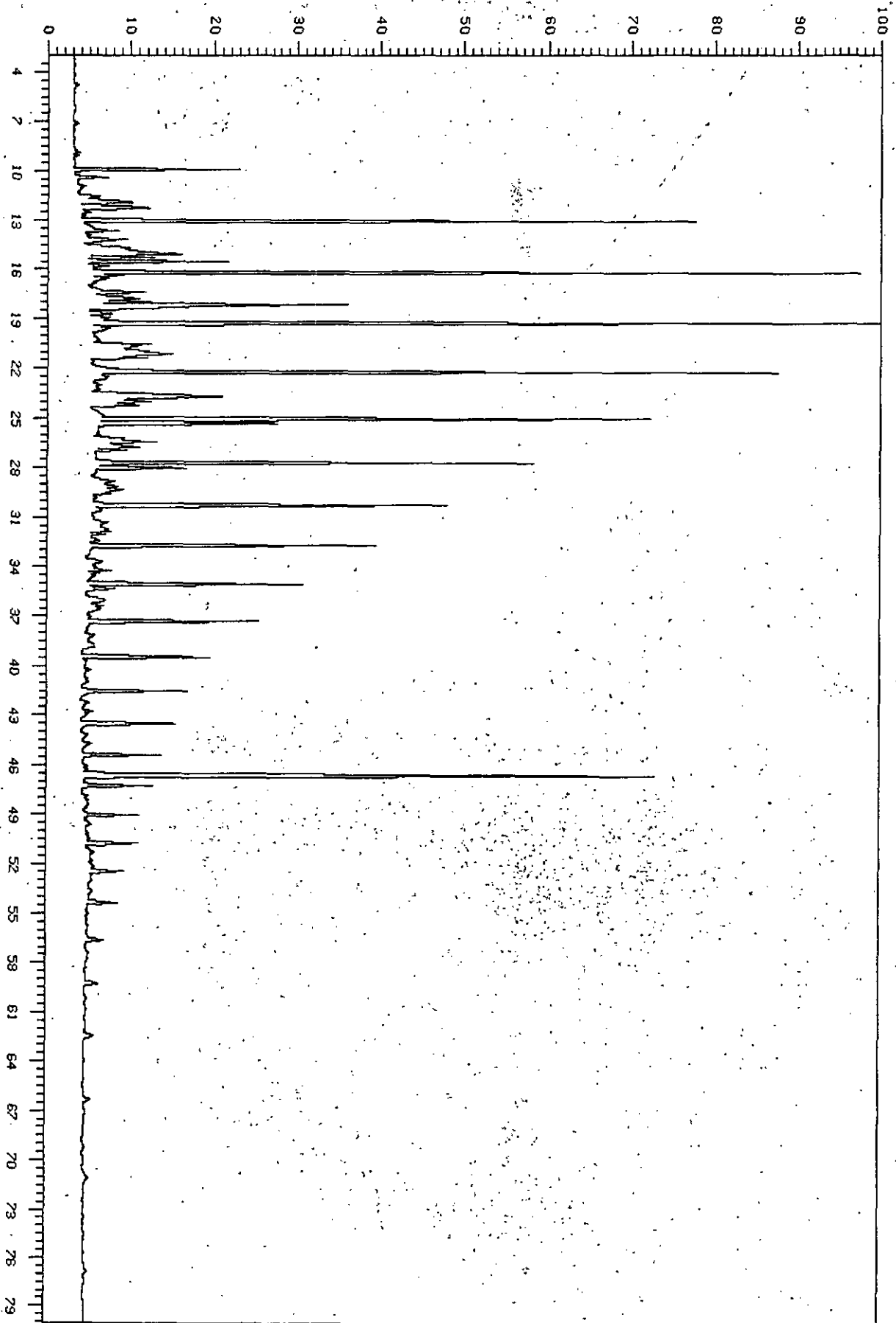
Box 1 of 1

Analysis : 6410M6432S1 Sample #: 1 Injection #: 1  
Sample Name : M-6432, S, 30/4-1, AD Maximum signal (%): 44.67



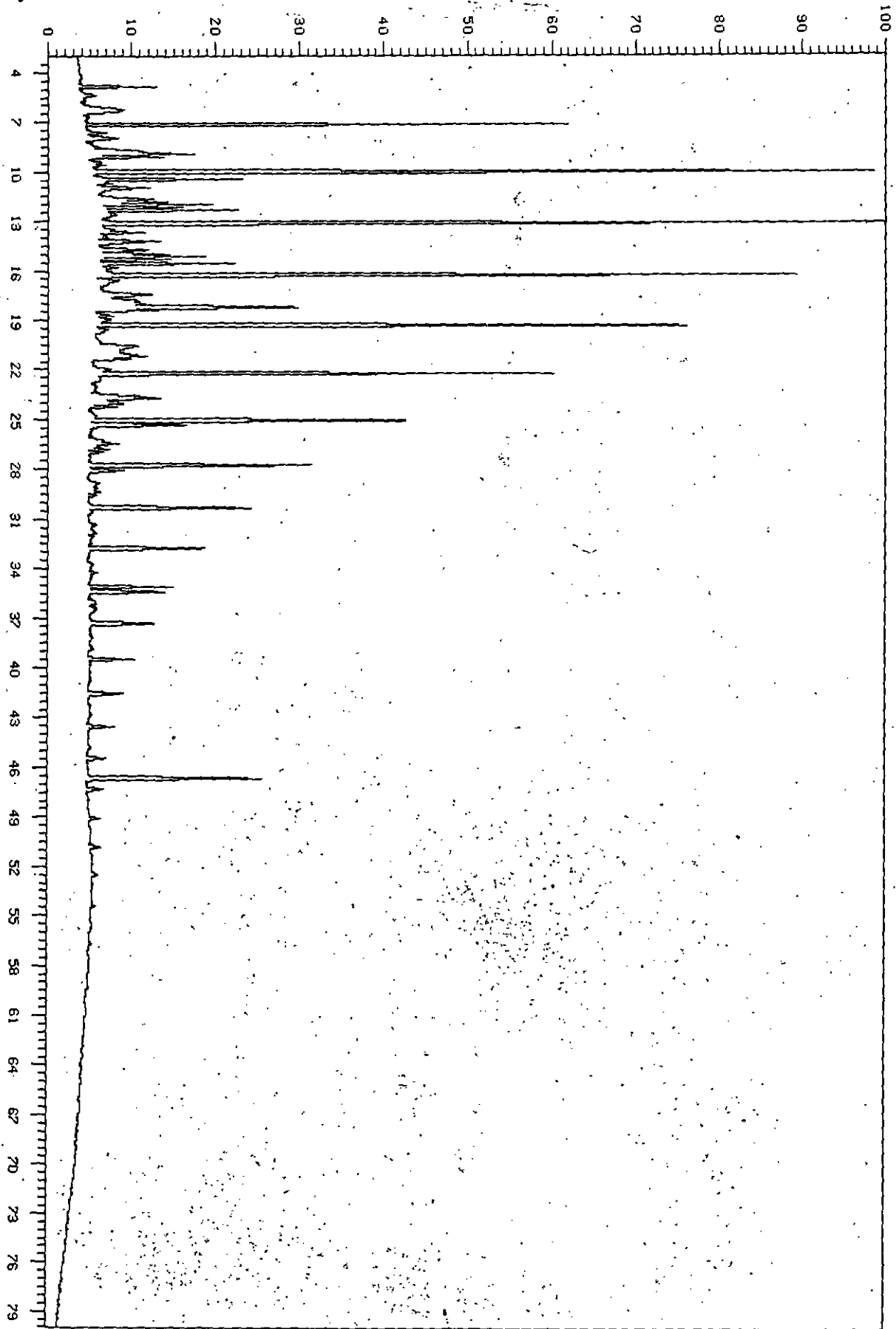
4850

Analysis : 6410M6437S1 Sample #: 1 Injection #: 1  
Sample Name : M-6437,S,30/4-1,AD Maximum signal (%): 14.86.



4868

Analysis : 6410M6443S1 Sample #: 1 Injection #: 1  
Sample Name : M-6443,S,30/4-1,AD Maximum signal (%): 16.84

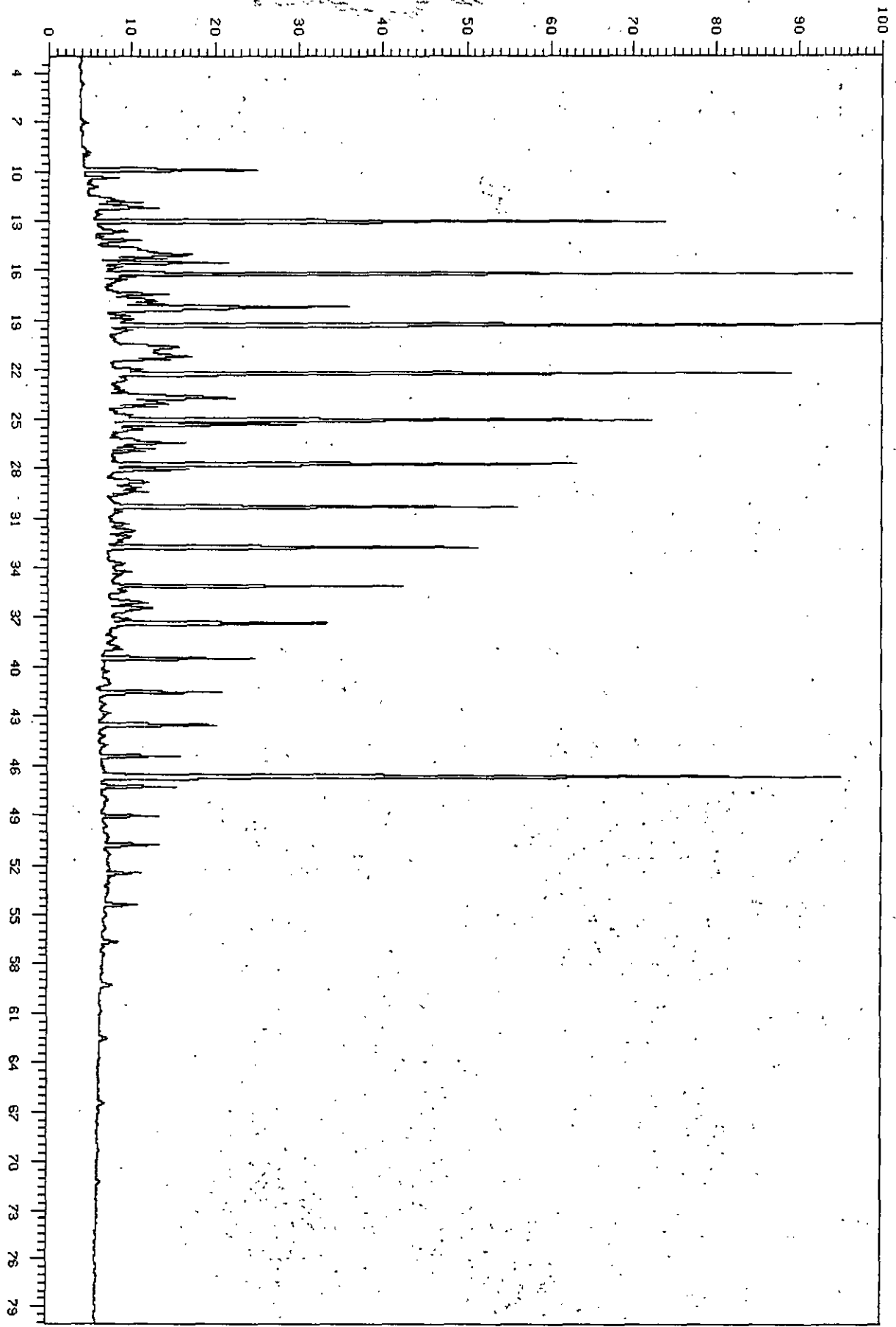


4880

RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis : 6410M6447S1 Sample #: 1 Injection #: 1  
Sample Name : M-6447,S,3074-1,AD Maximum signal (%): 13.48

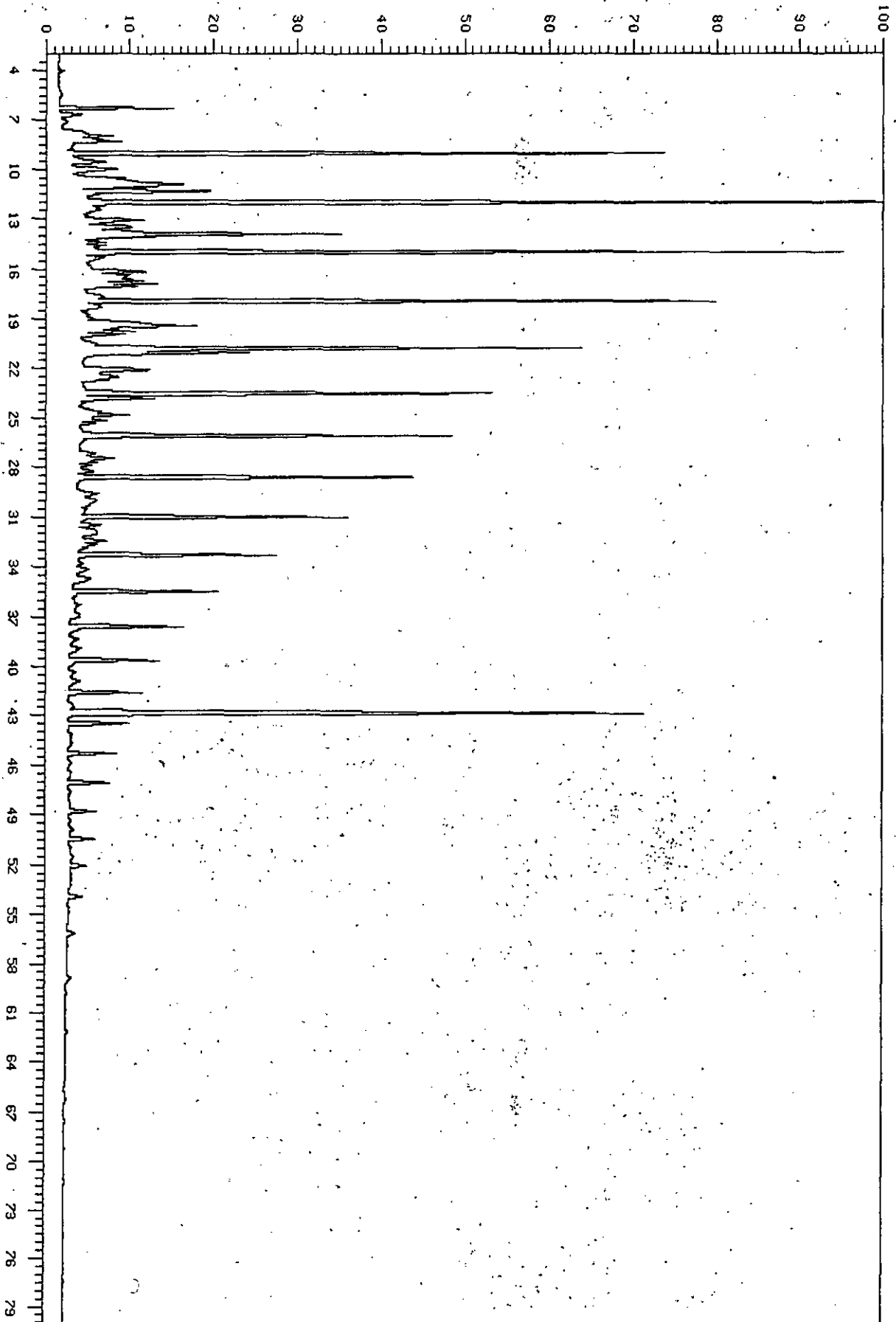


4898

Analysis :6410M645351 Sample #: 1 Injection #: 1

Sample Name :M-6453,S,30/4-1,AD

Maximum signal (%): 44.52



49.9

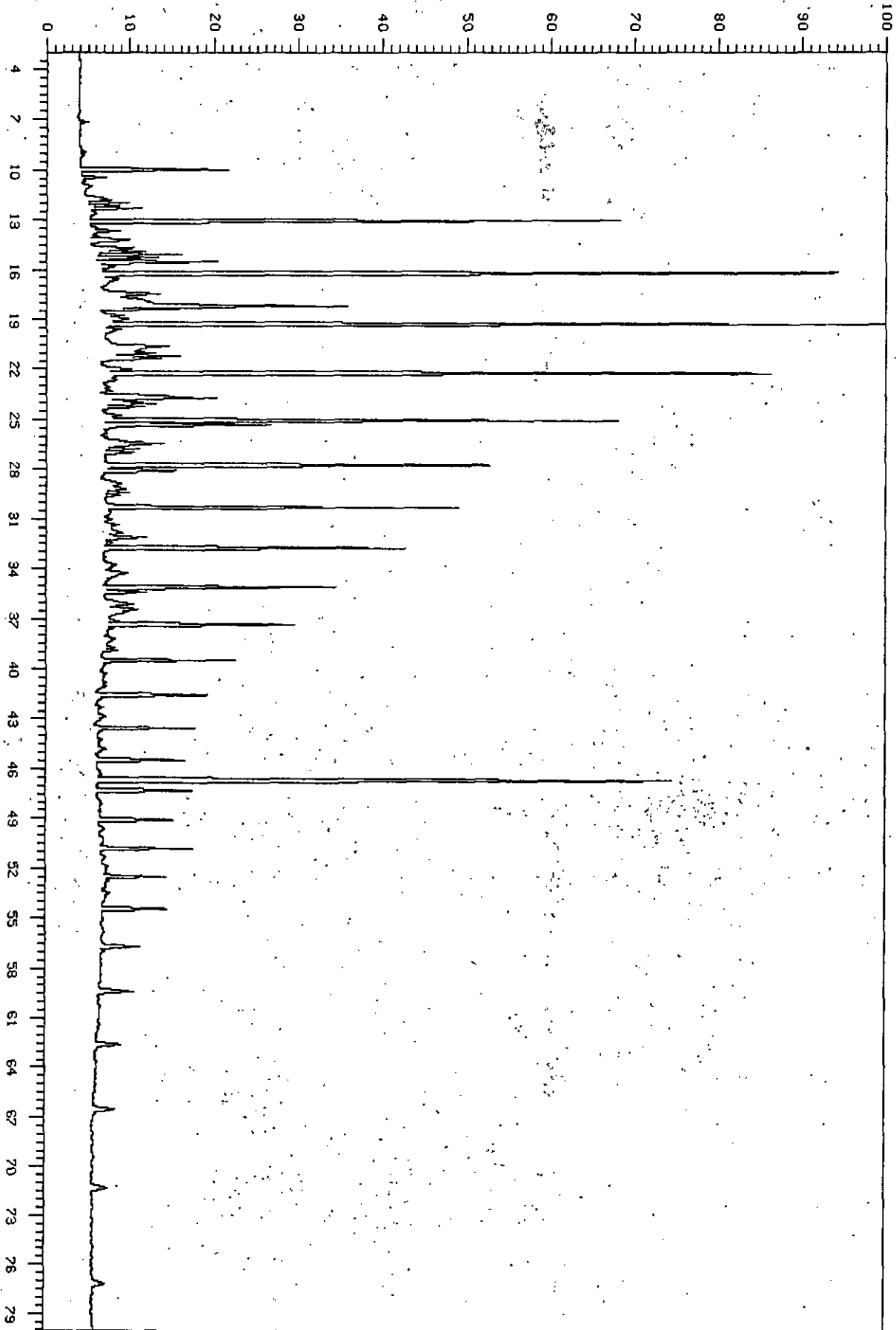
RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis: 6410M6459S1 Sample #: 1 Injection #: 1

Sample Name: M-6459,S,30/4-1,AD

Maximum signal (%): 14.15



4961

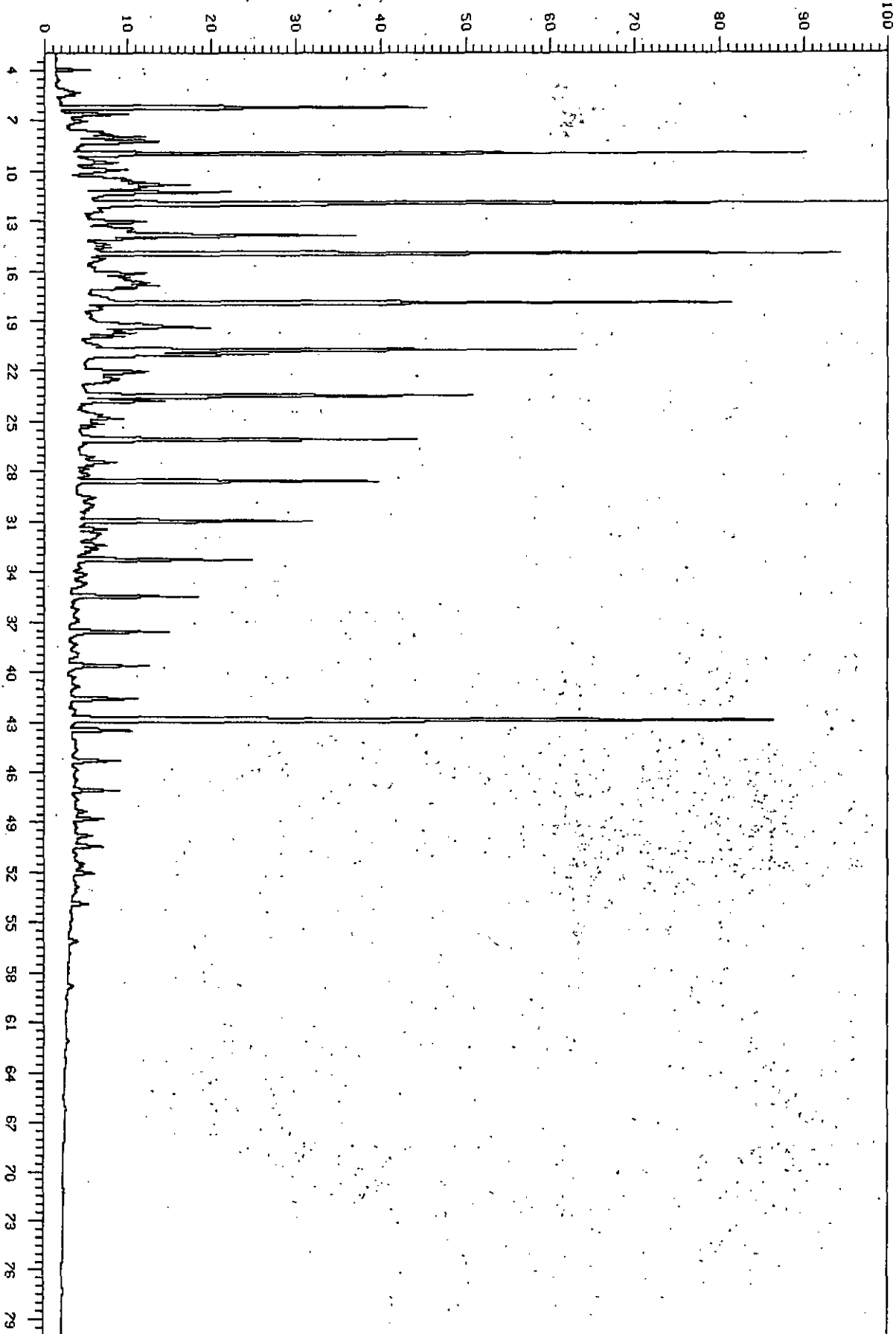
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6472S1 Sample #: 1 Injection #: 1

Sample Name : M-6472,S,30/4-1,AD

Maximum signal (%): 48.97



Printed at 15:55 on 01/Mar/83

5003

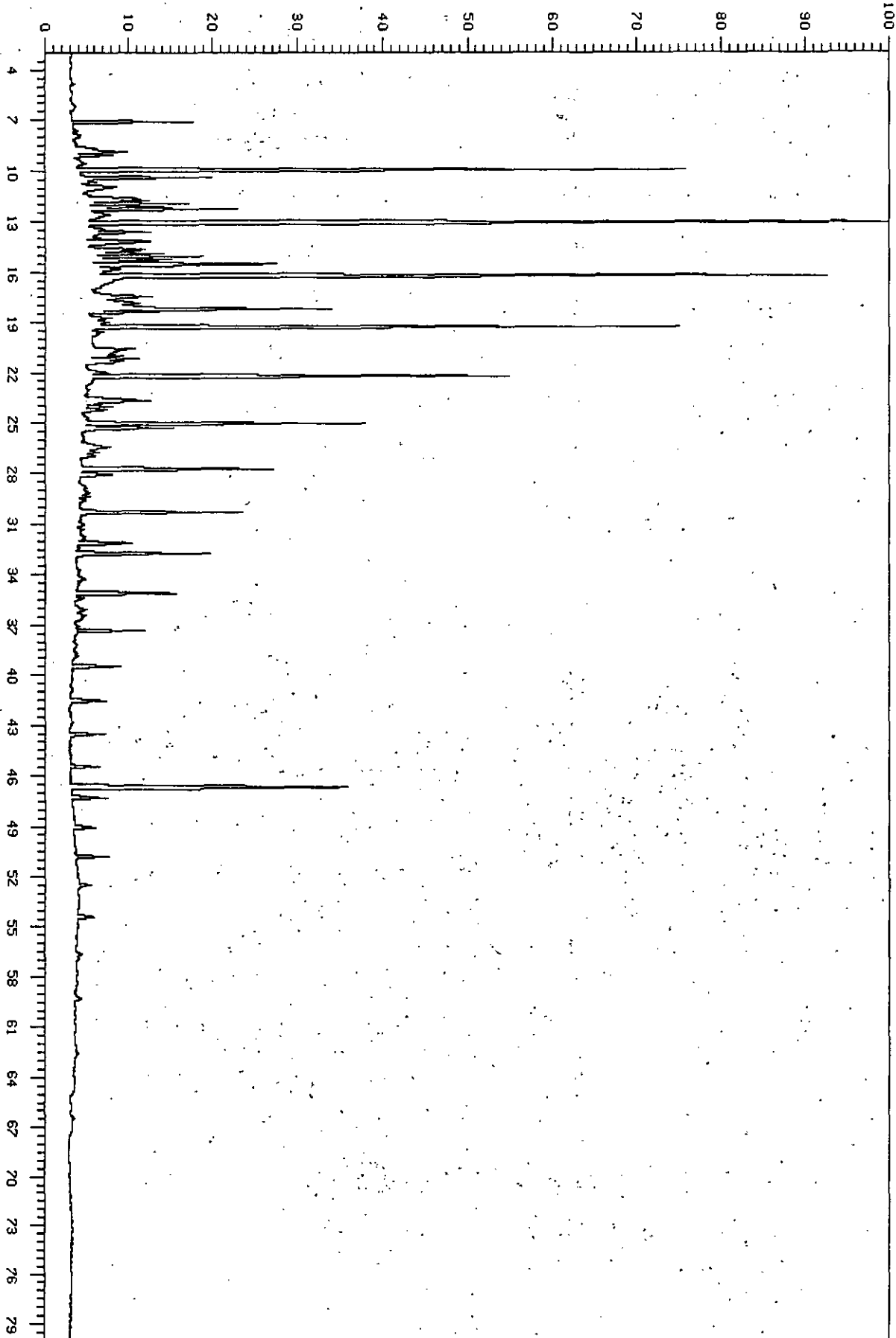
RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis :6410M6485S1 Sample #: 1 Injection #: 1

Sample Name :M-6485,S,30/4-1,AD

Maximum signal (%): 22.48





5039

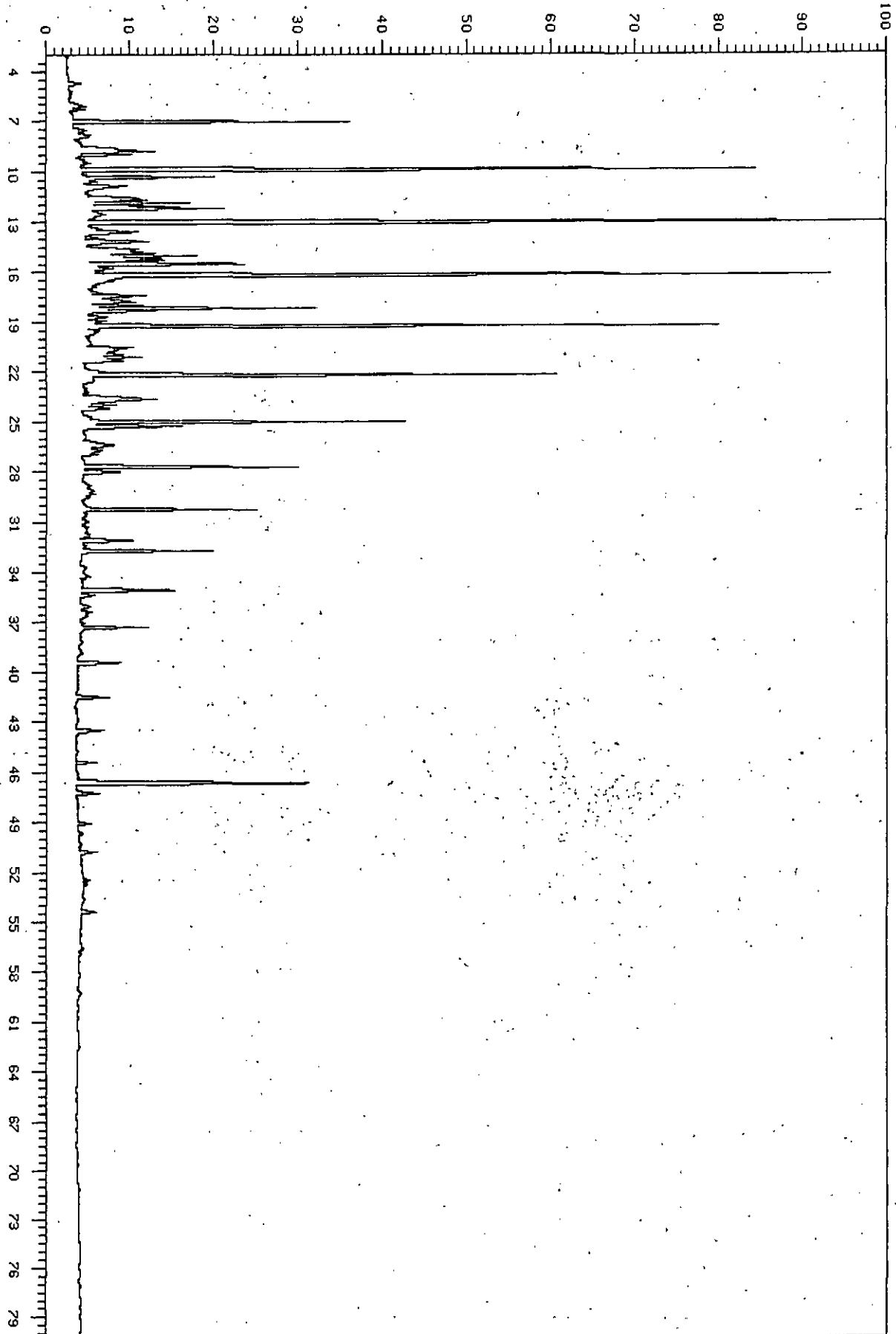
RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis : 6410M6497S1 Sample #: 1 Injection #: 1

Sample Name : M-6497,S,30/4-1,AD

Maximum signal (%): 20.14



5081

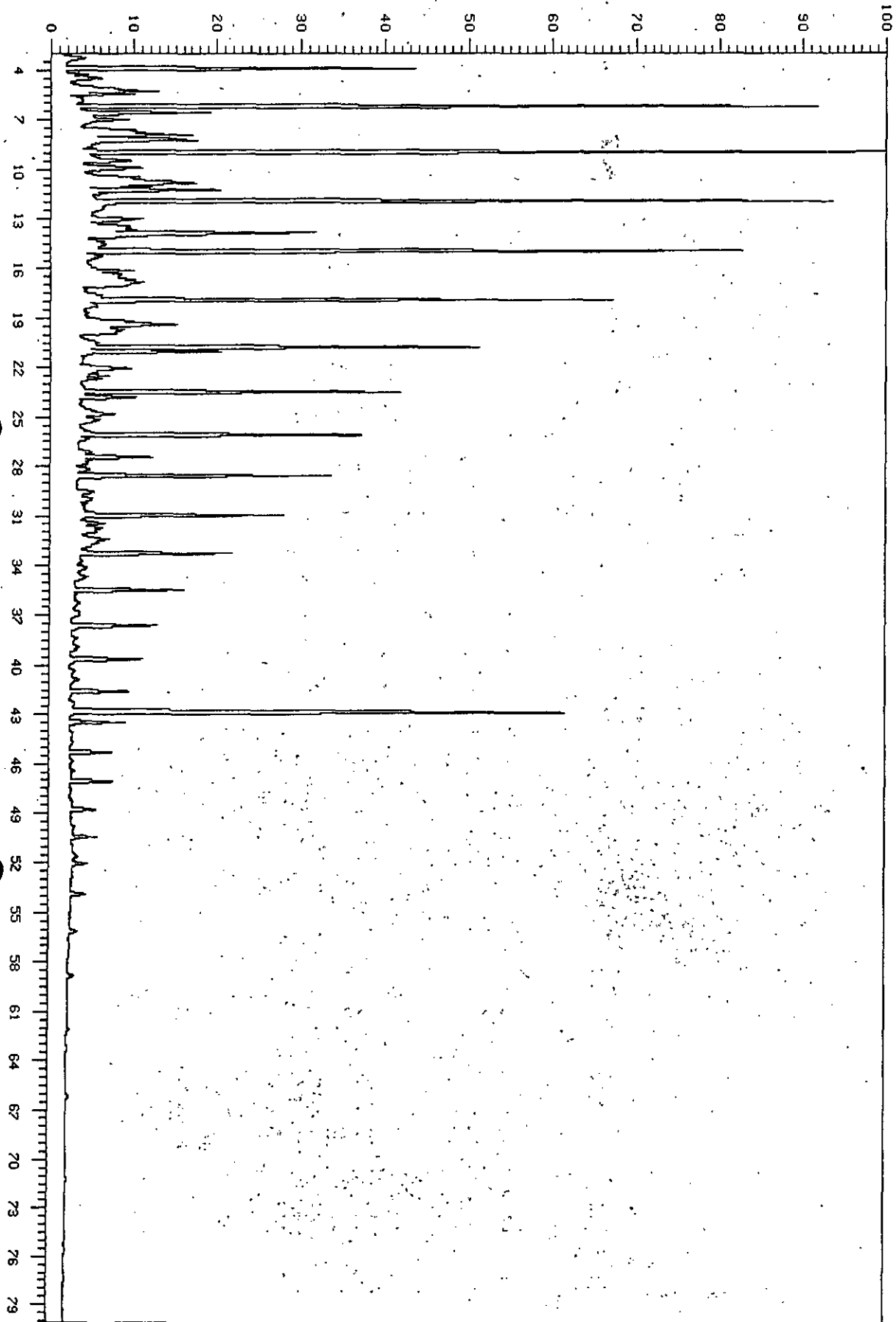
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6511S1 Sample #: 1 Injection #: 1

Sample Name : M-6511, S, 30/4-1, AD

Maximum signal (%): 50.56



5/59

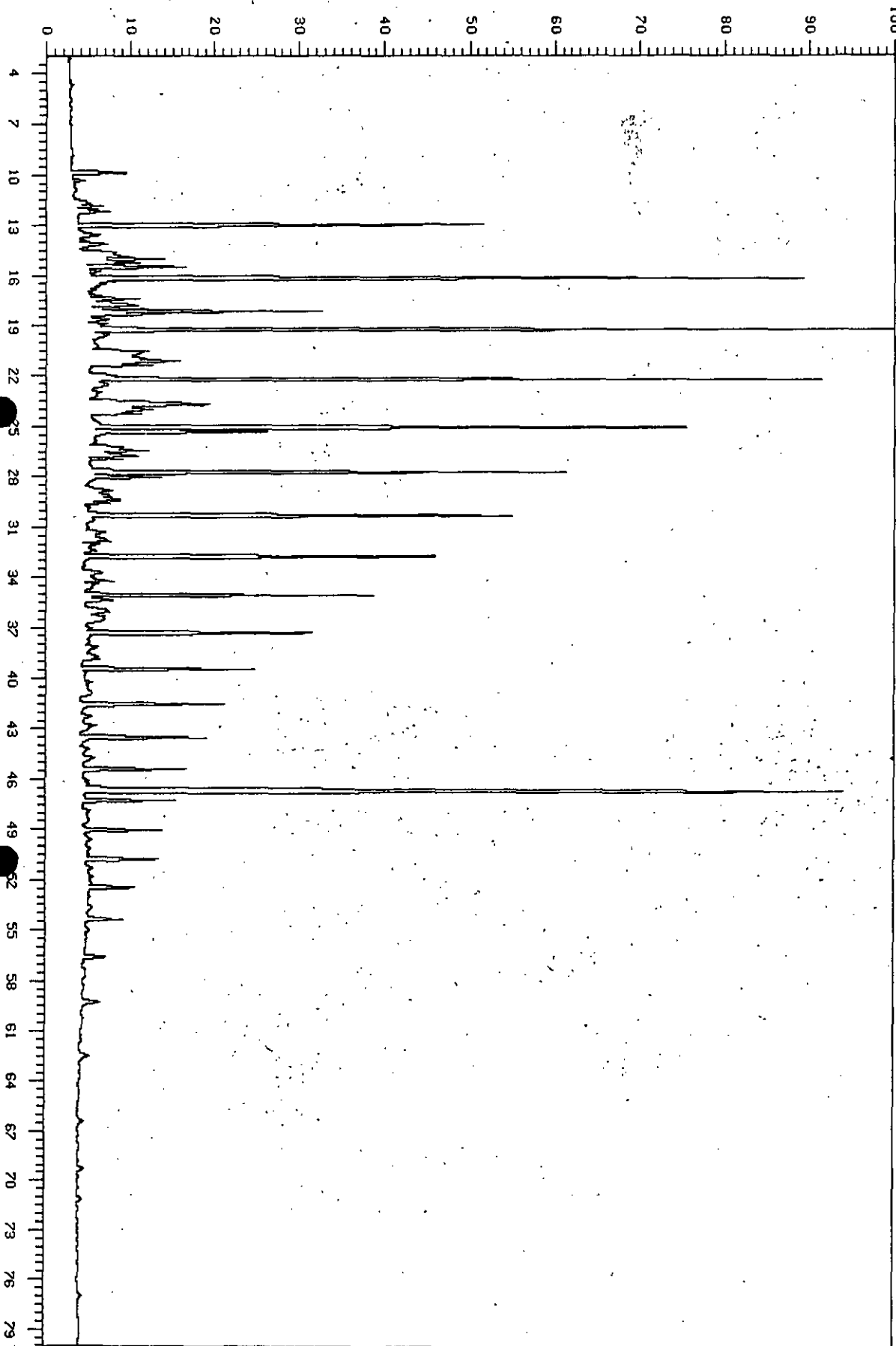
RAW DATA PLOT-CHANNEL 5

Box 1 of 1

Analysis :6410M8537S1 Sample #: 1 Injection #: 1

Sample Name :M-6537,S,30/4-1,AD

Maximum signal (%): 16.11



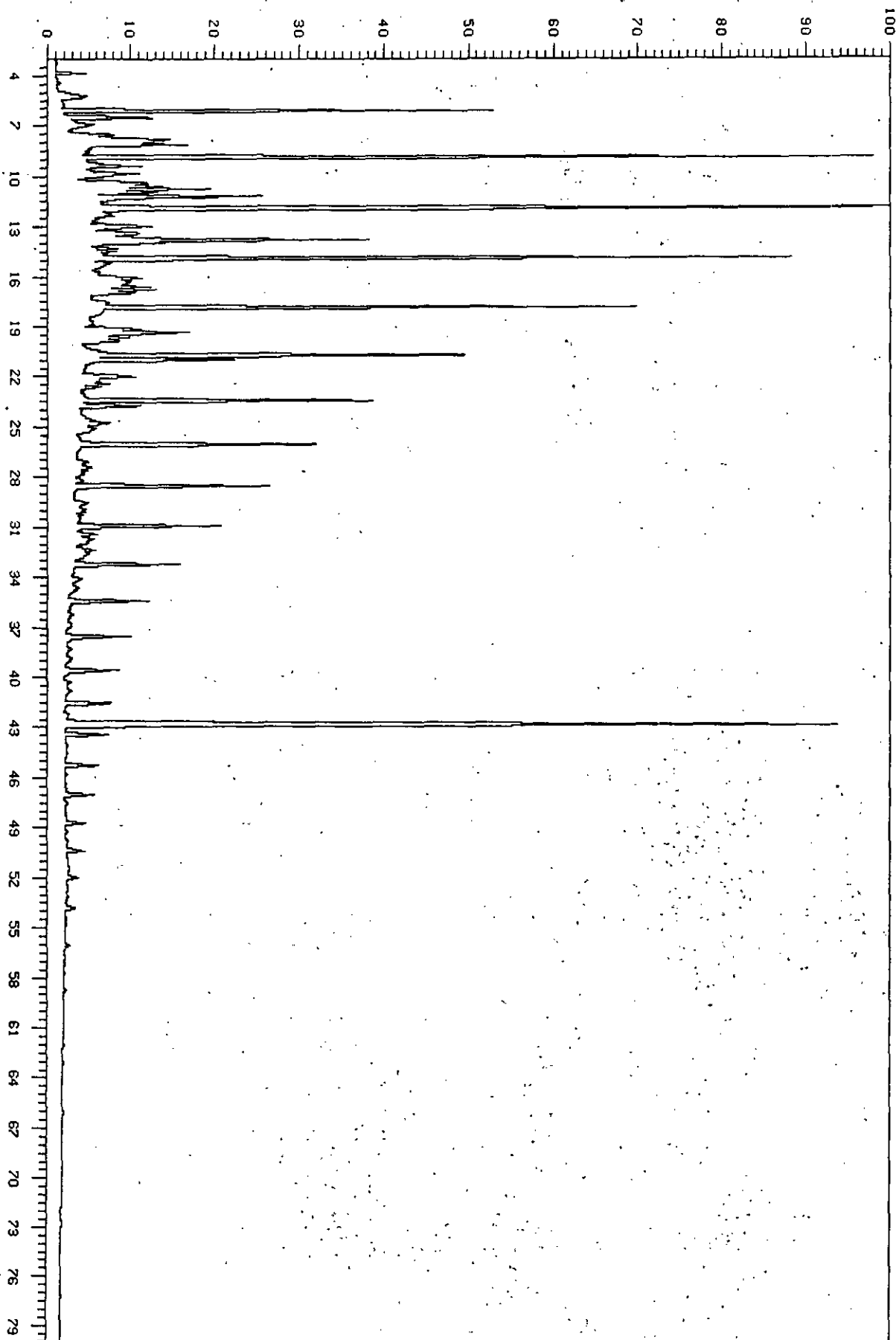
5219

RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis : 6410M6557S1 Sample #: 1 Injection #: 1

Sample Name : M-6557, S, 30/4-1, AD Maximum signal (%): 58.74



5267

Printed at 14:39 on 02/Mar/83

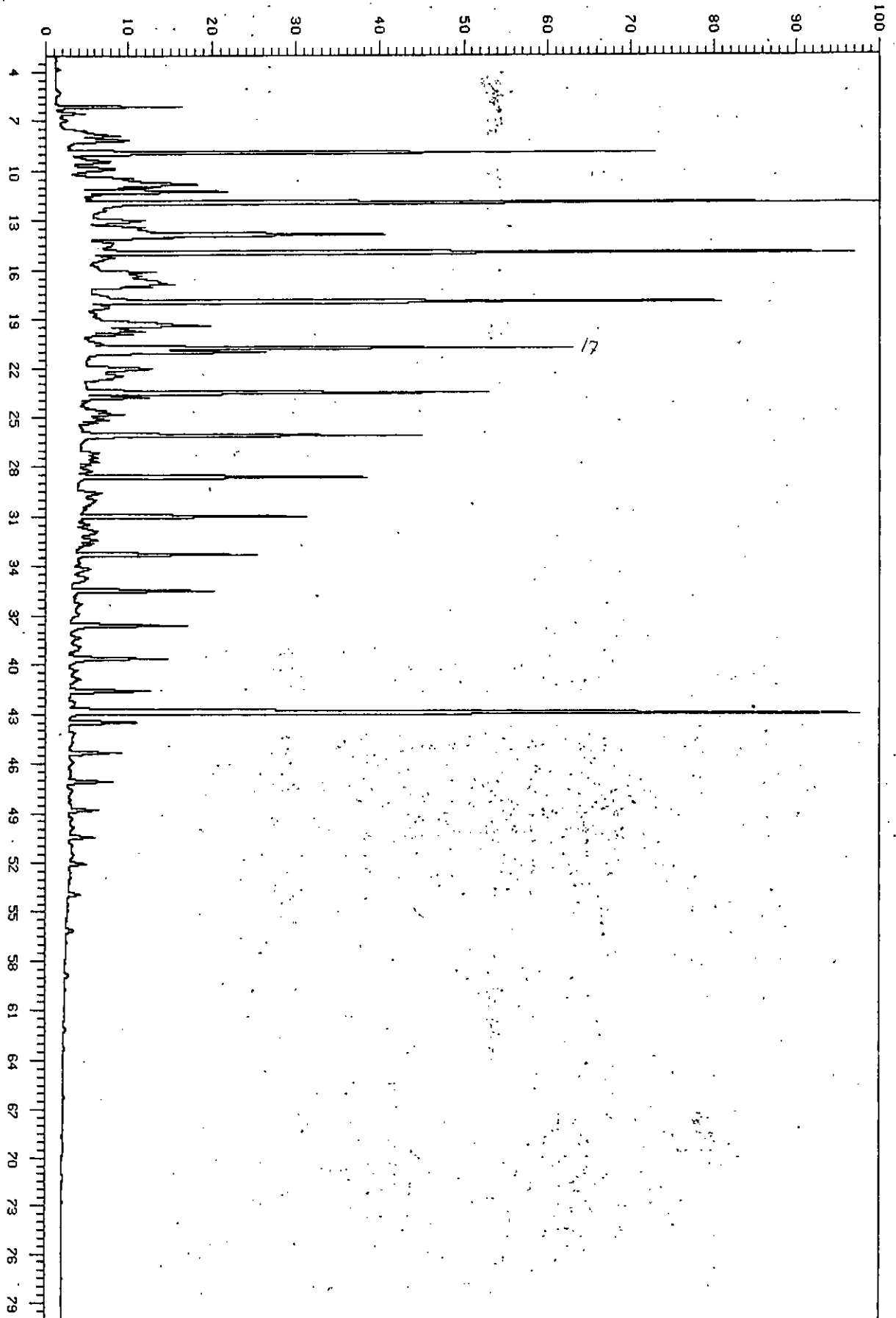
RAW DATA PLOT-CHANNEL 6

Box 1 of 1

Analysis :6410M6573S1 Sample #: 1 Injection #: 1

Sample Name :M-6573,S,30/4-1,AD

Maximum signal (%): 51.13



Printed at 14:41 on 02/Mar/83

S369

RAW DATA PLOT-CHANNEL 5

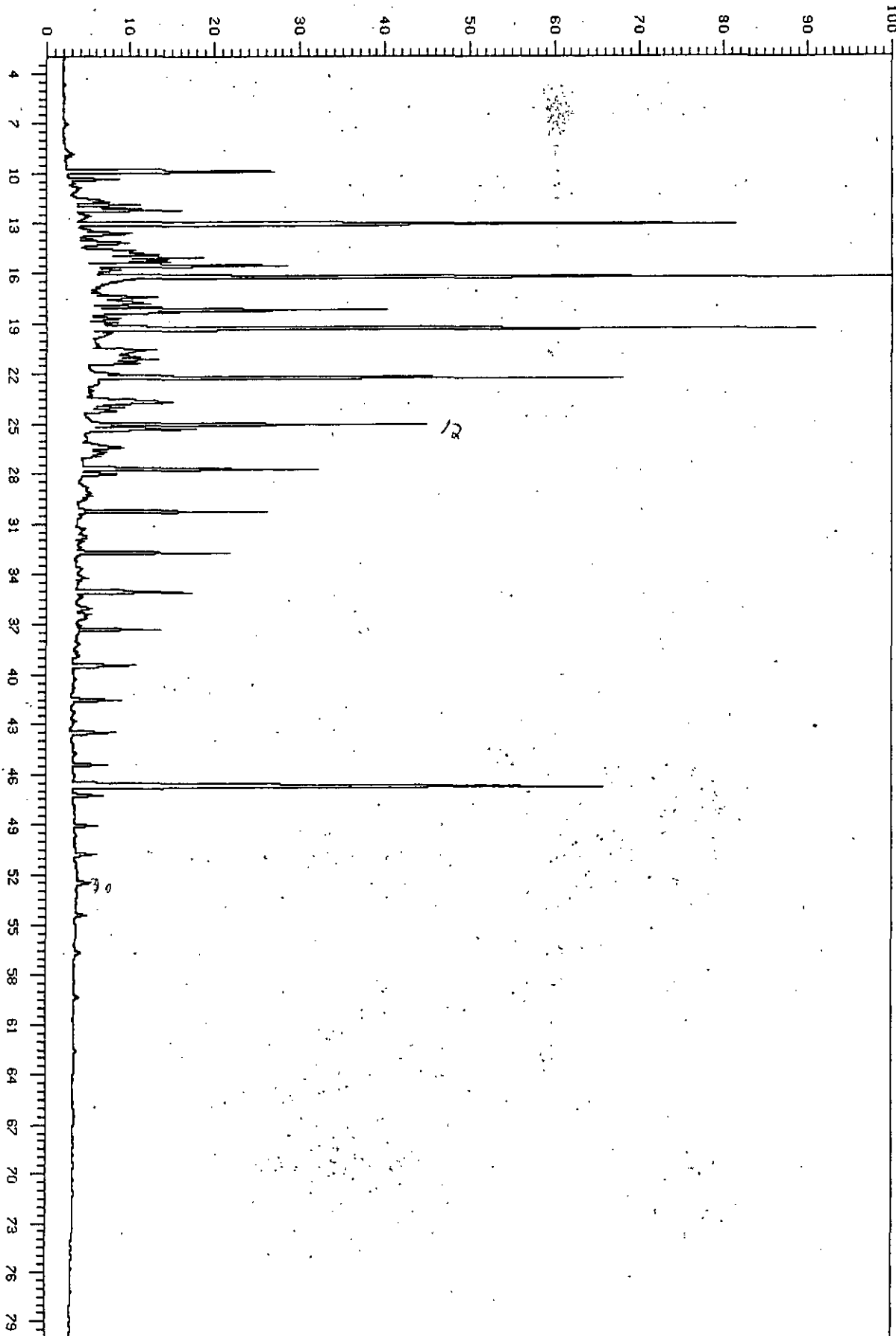
T 5378

Box 1 of 1

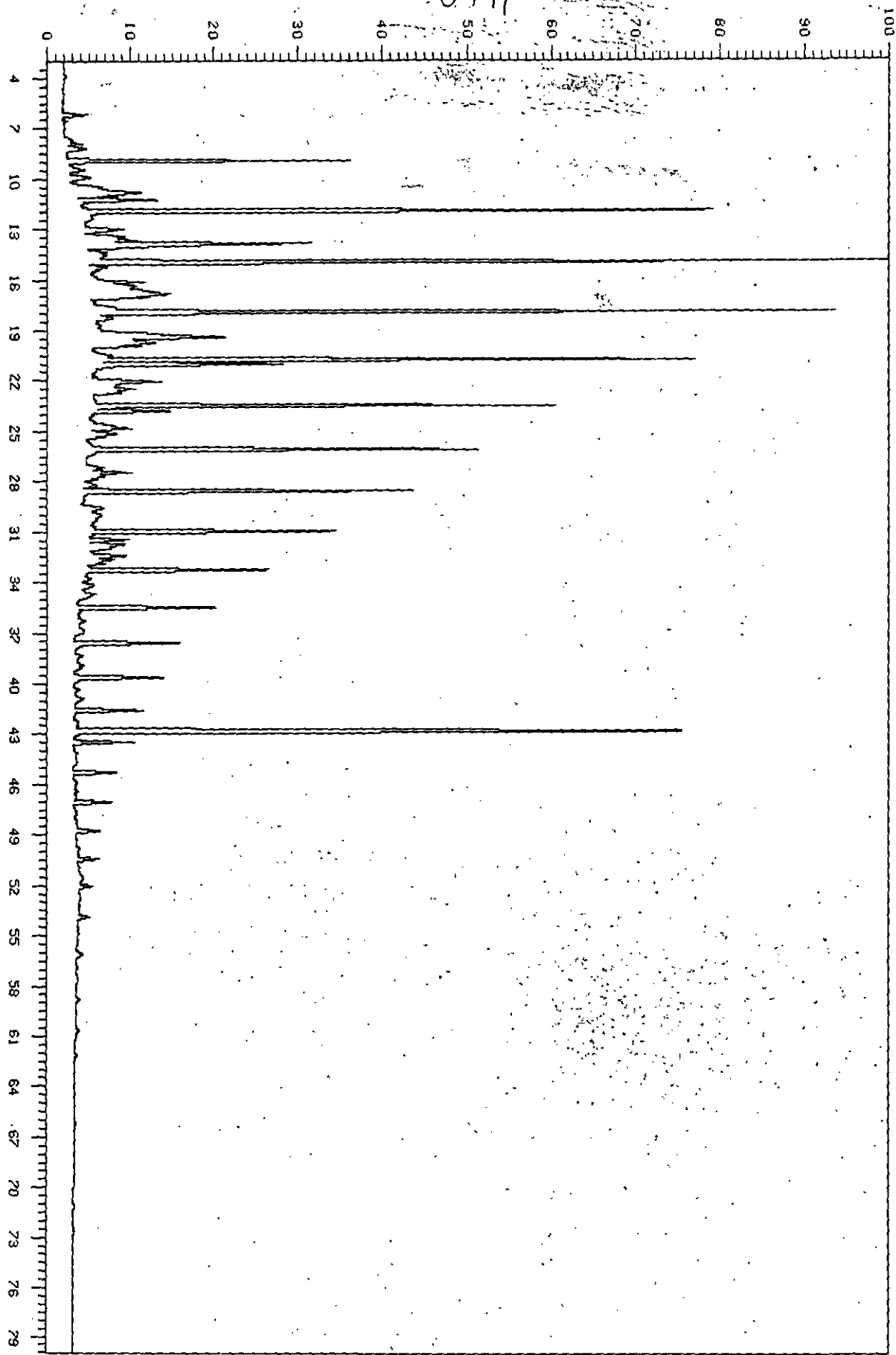
Analysis : 6410M6607S1 Sample #: 1 Injection #: 1

Sample Name : M-6607,S30/4-1,AD

Maximum signal (%): 23.02



5441



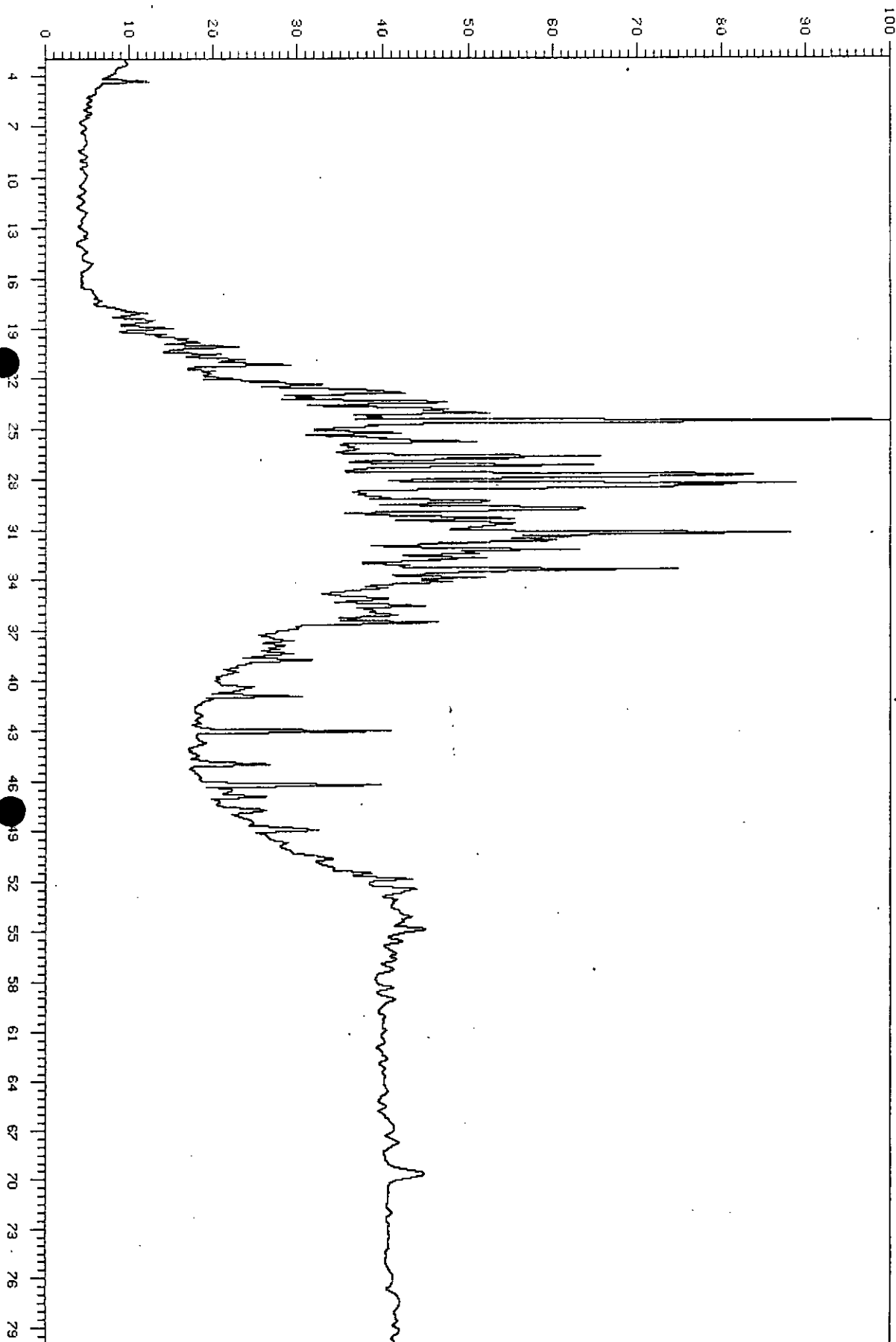
34.80

Printed at 16:51 on 24/Feb/83

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6066R1 Sample #: 1 Injection #: 1  
Sample Name : M-6066, R, 30//4-1, RD Maximum signal (%): 3.27





363.0

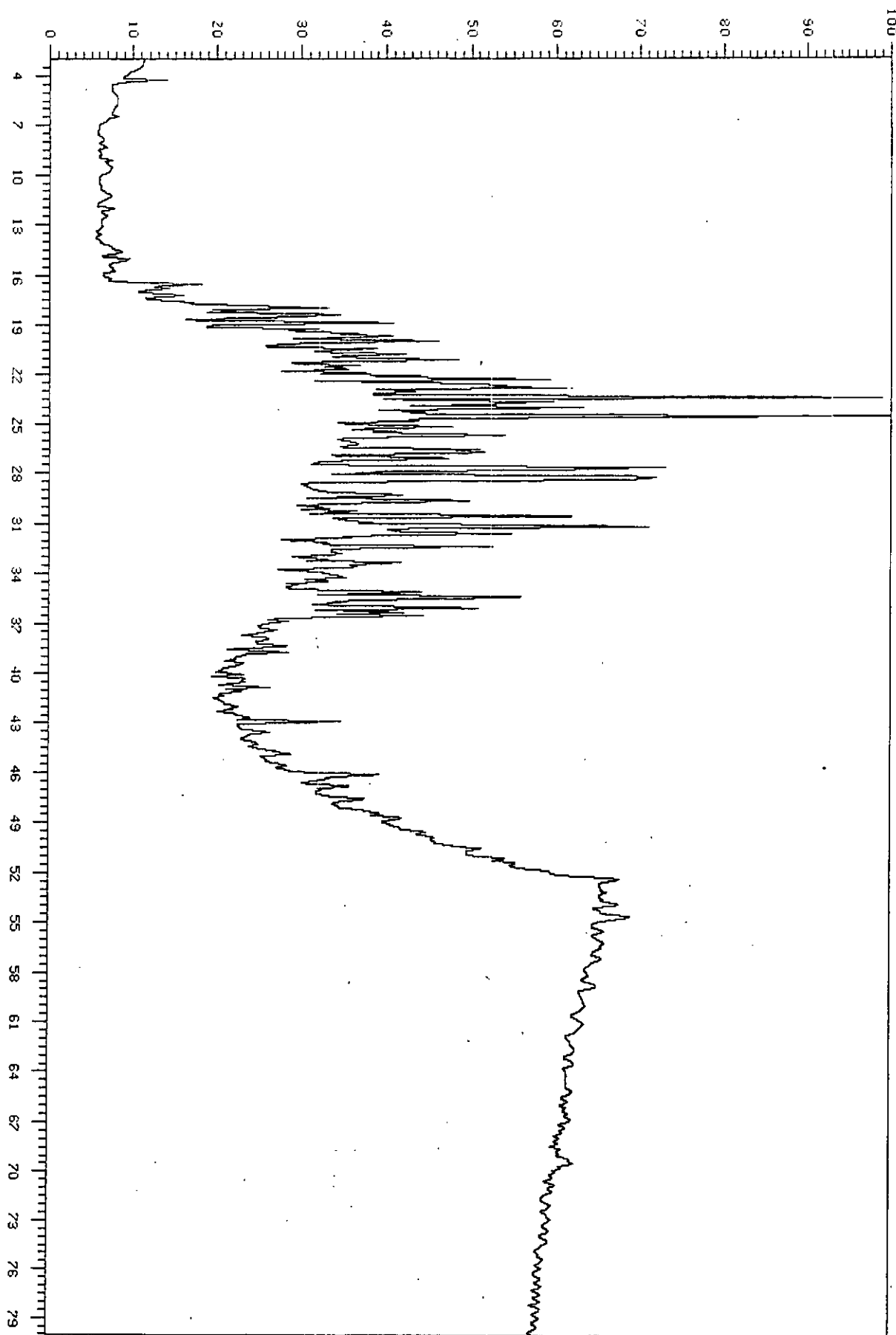
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6096A1 Sample #: 1 Injection #: 1

Sample Name :M-6096,A,30/4-1,AD

Maximum signal (%): 2.62



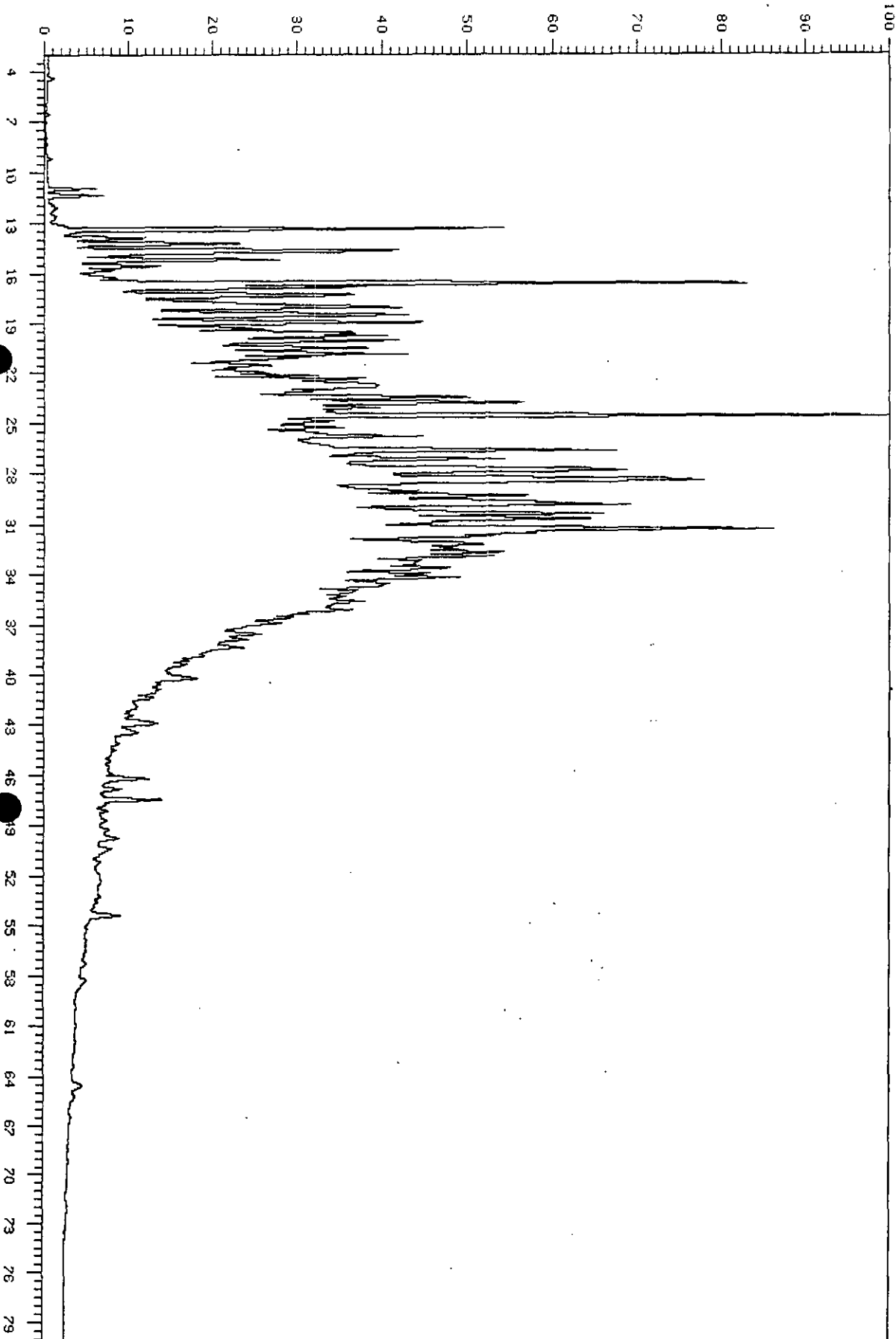
Printed at 19:31 on 24/Feb/83

3760  
3770

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6122R1 Sample #: 1 Injection #: 1  
Sample Name : M-6122, R, 30/4-1, AD Maximum signal (%): 71.51



3980

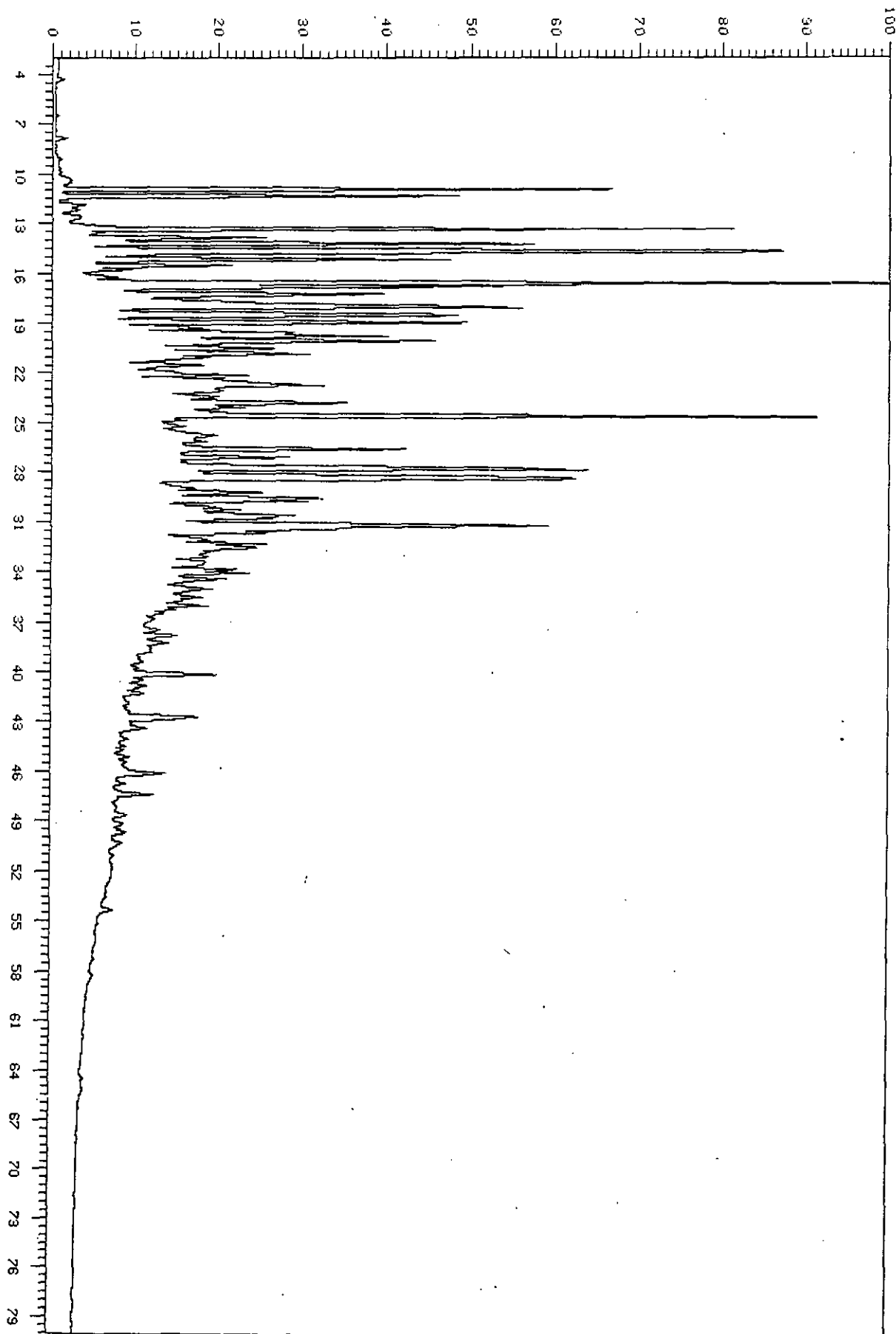
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6166R1 Sample #: 1 Injection #: 1

Sample Name :M-6166,A,30/4-1,AD

Maximum signal (%): 71.79



Printed at 12:14 on 25/Feb/83

40.40

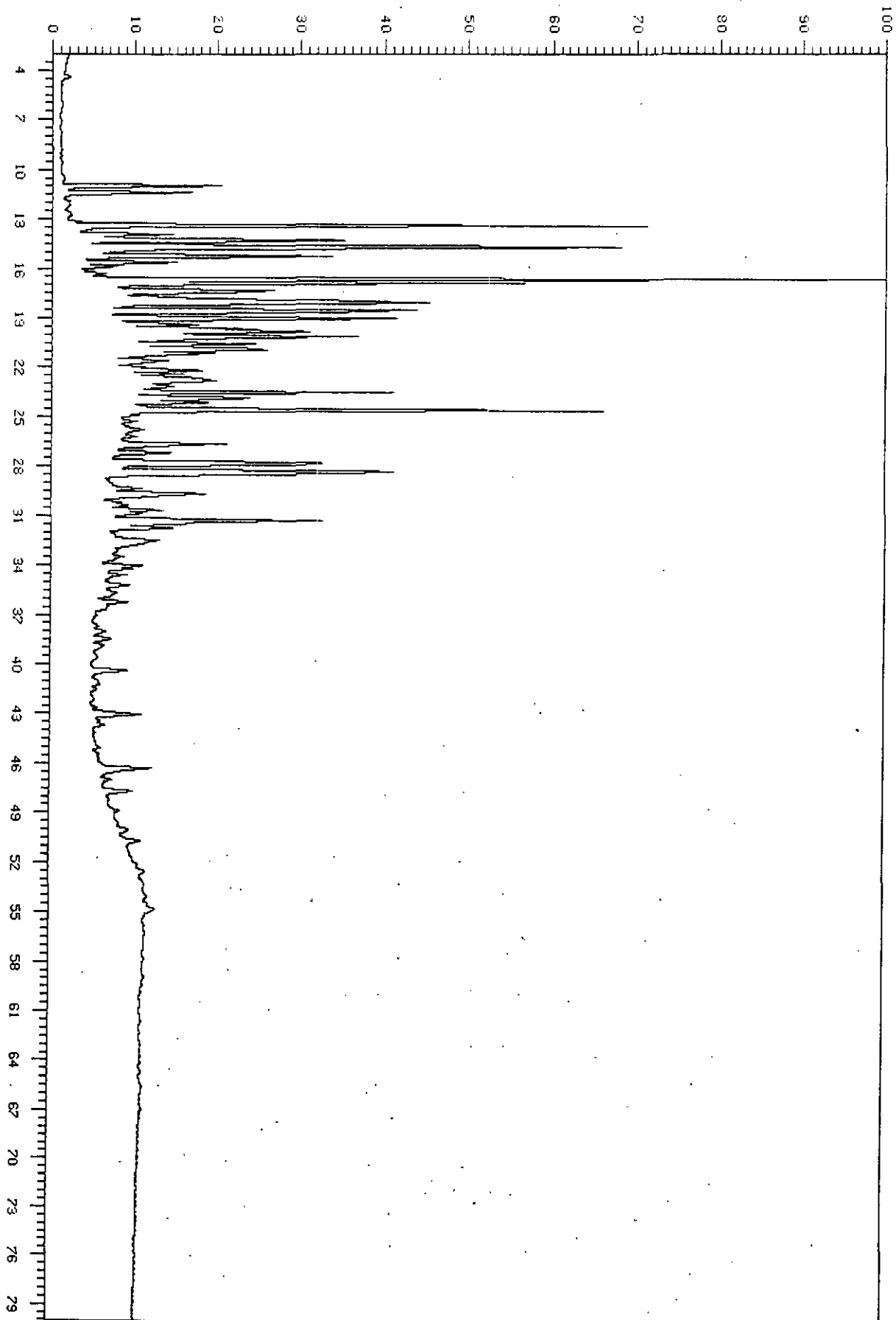
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6178A1 Sample #: 1 Injection #: 1

Sample Name : M-6178A, 30/4-1, AD

Maximum signal (%): 16.60



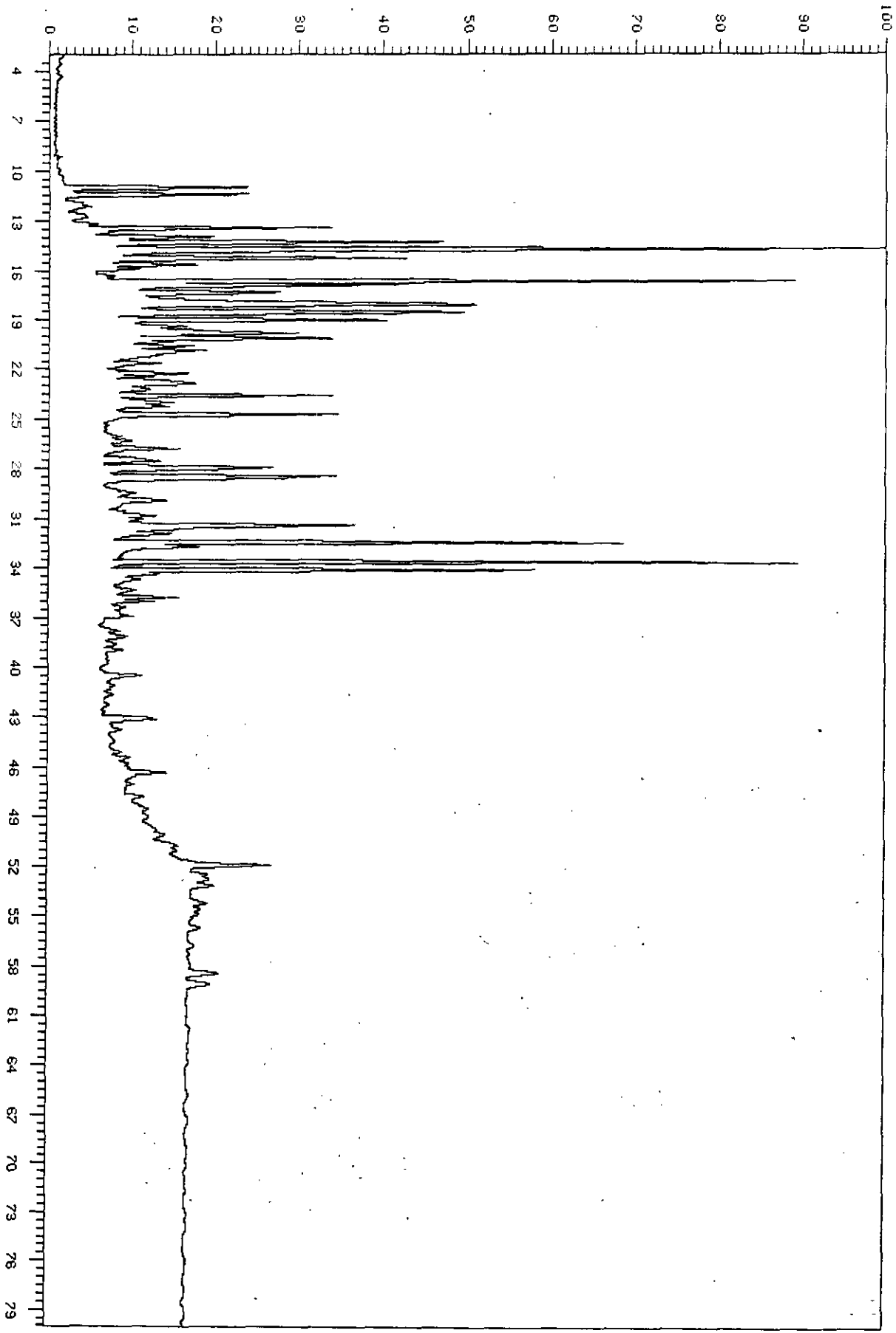
Printed at 14:43 on 25/Feb/83

41100

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6194R1 Sample #: 1 Injection #: 1  
Sample Name : M-6194, R, 30/4-1, AD Maximum signal (%): 10.29



Printed at 11:21 on 28/Feb/83

4223

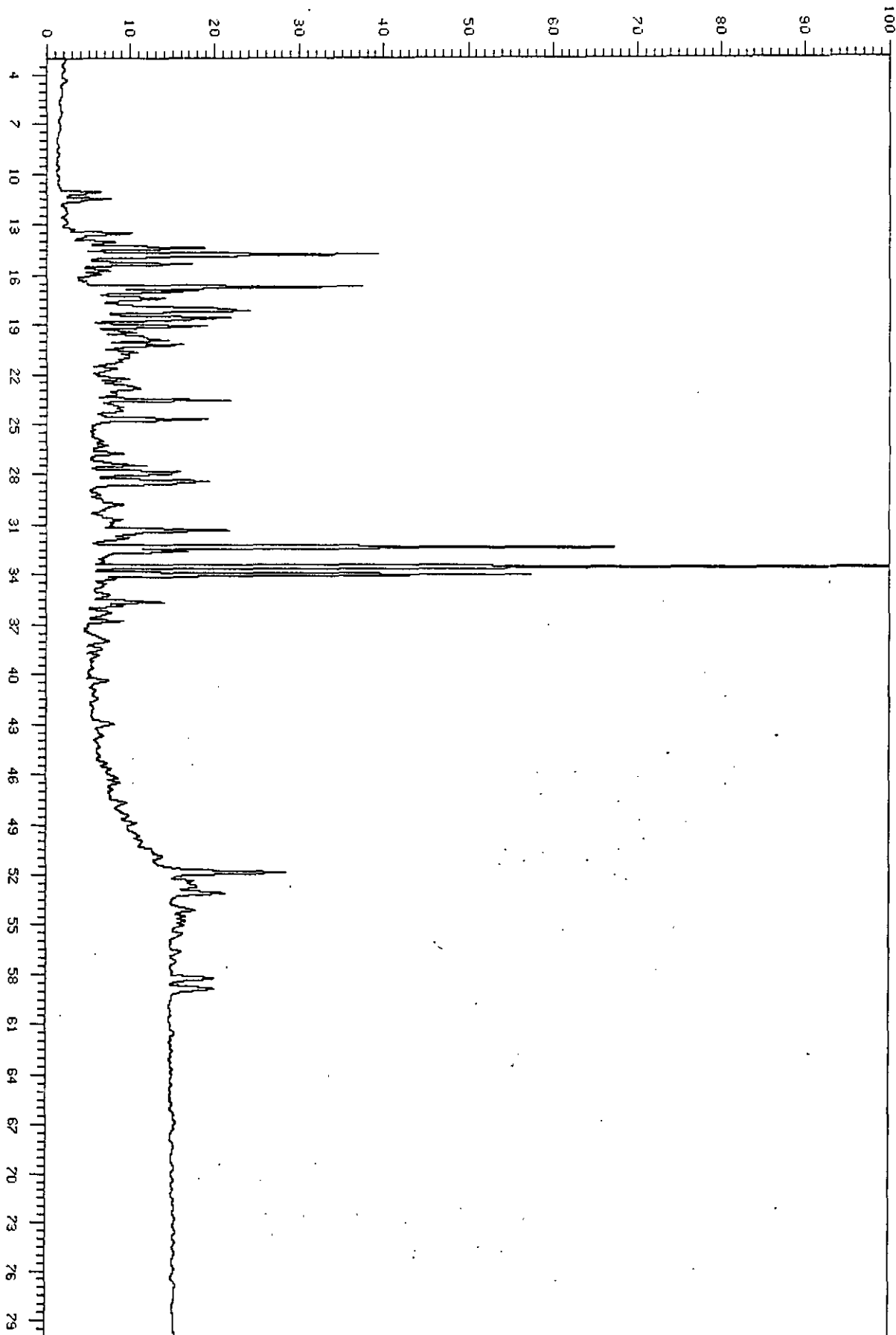
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6234R1 Sample #: 1 Injection #: 1

Sample Name :M-6234,R,30/4-1,AD

Maximum signal (%): 10.23



Printed at 13:37 on 28/Feb/83

43.28

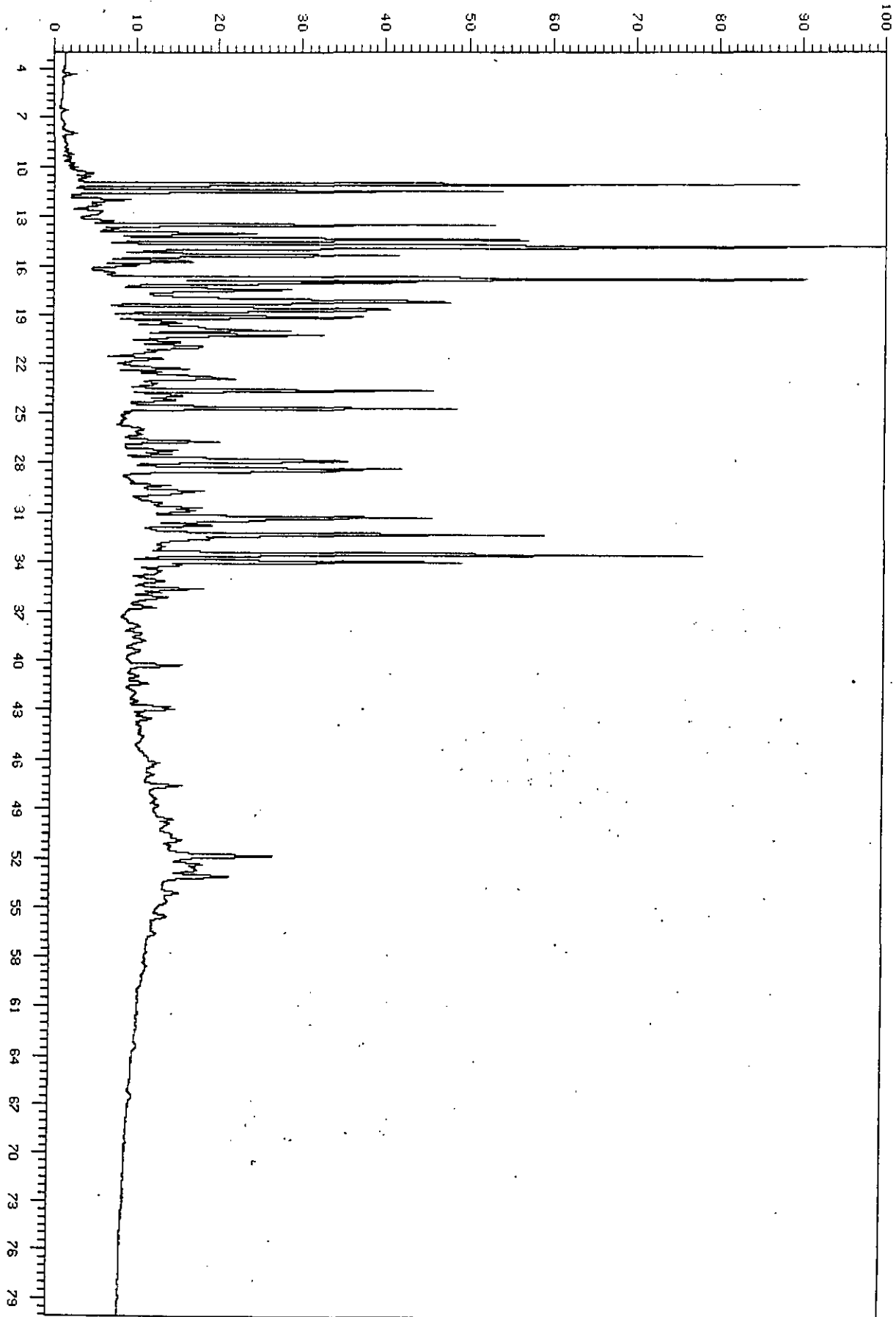
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6268A1 Sample #: 1 Injection #: 1

Sample Name :M-6268,A,30//4-1,AD

Maximum signal (%): 28.72



Printed at 15:31 on 28/Feb/83

4400

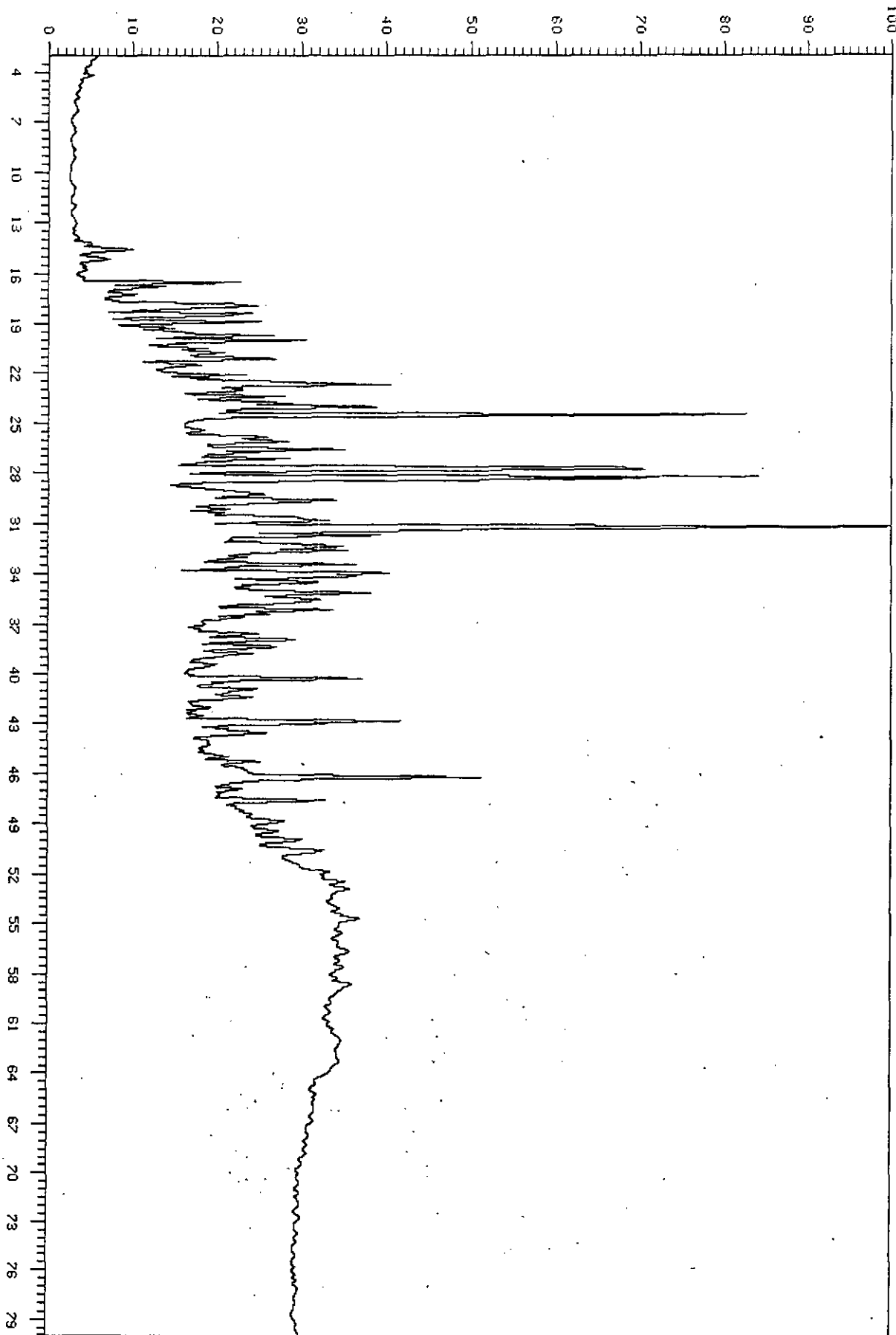
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6292A1 Sample #: 1 Injection #: 1

Sample Name :M-6292,A,30/4-1,AD

Maximum signal (%): 6.33





4541

Printed at 08:34 on 29/Feb/83

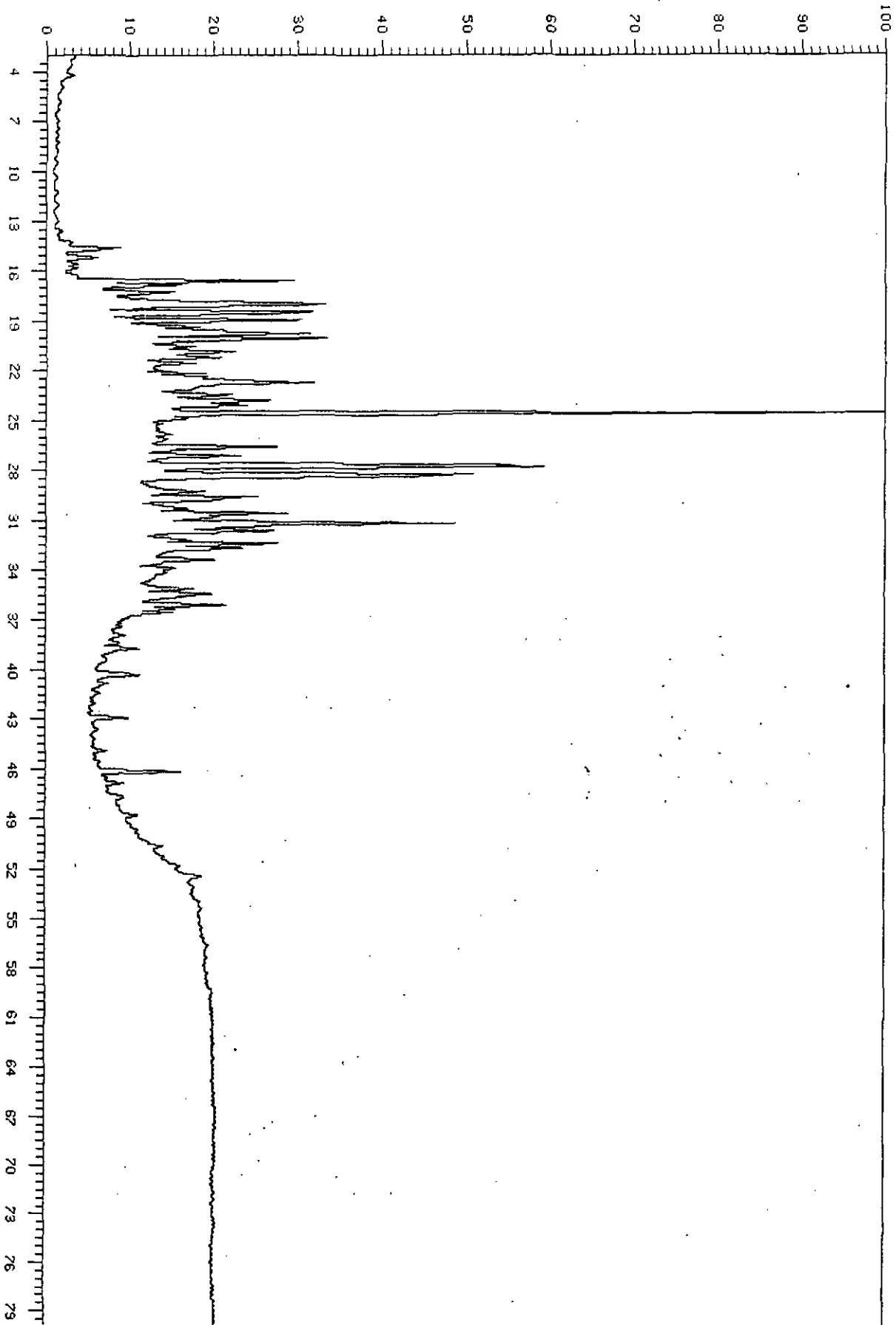
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6338A1 Sample #: 1 Injection #: 1

Sample Name :M-6338,A,30/4-1,AD

Maximum signal (%): 7.89



Printed at 10:34 on 01/Mar/83

463

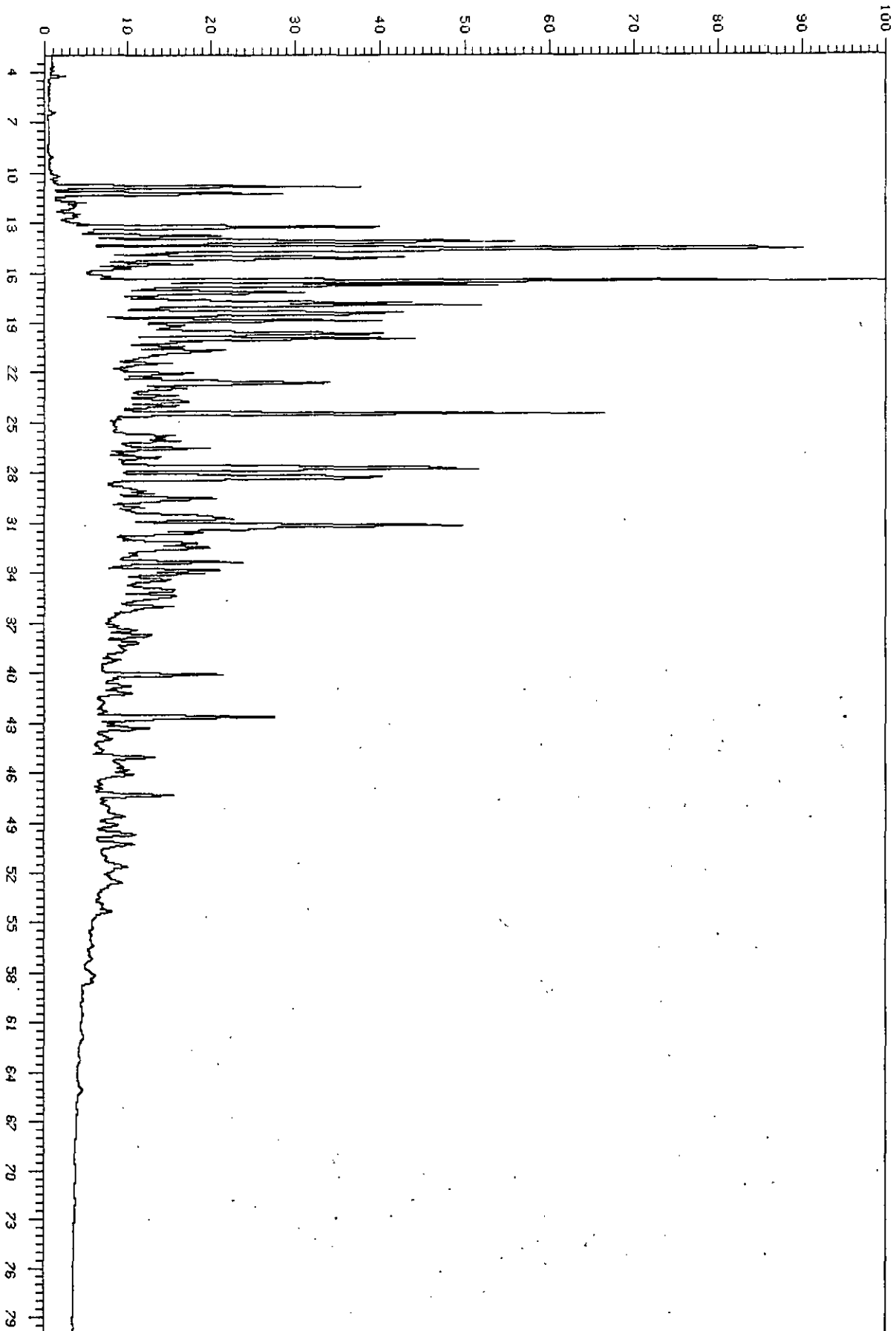
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6367R1 Sample #: 1 Injection #: 1

Sample Name : M-6367, A, 30/4-1, AD

Maximum signal (%): 56.39



Printed at 13:03 on 01/Mar/83

4661

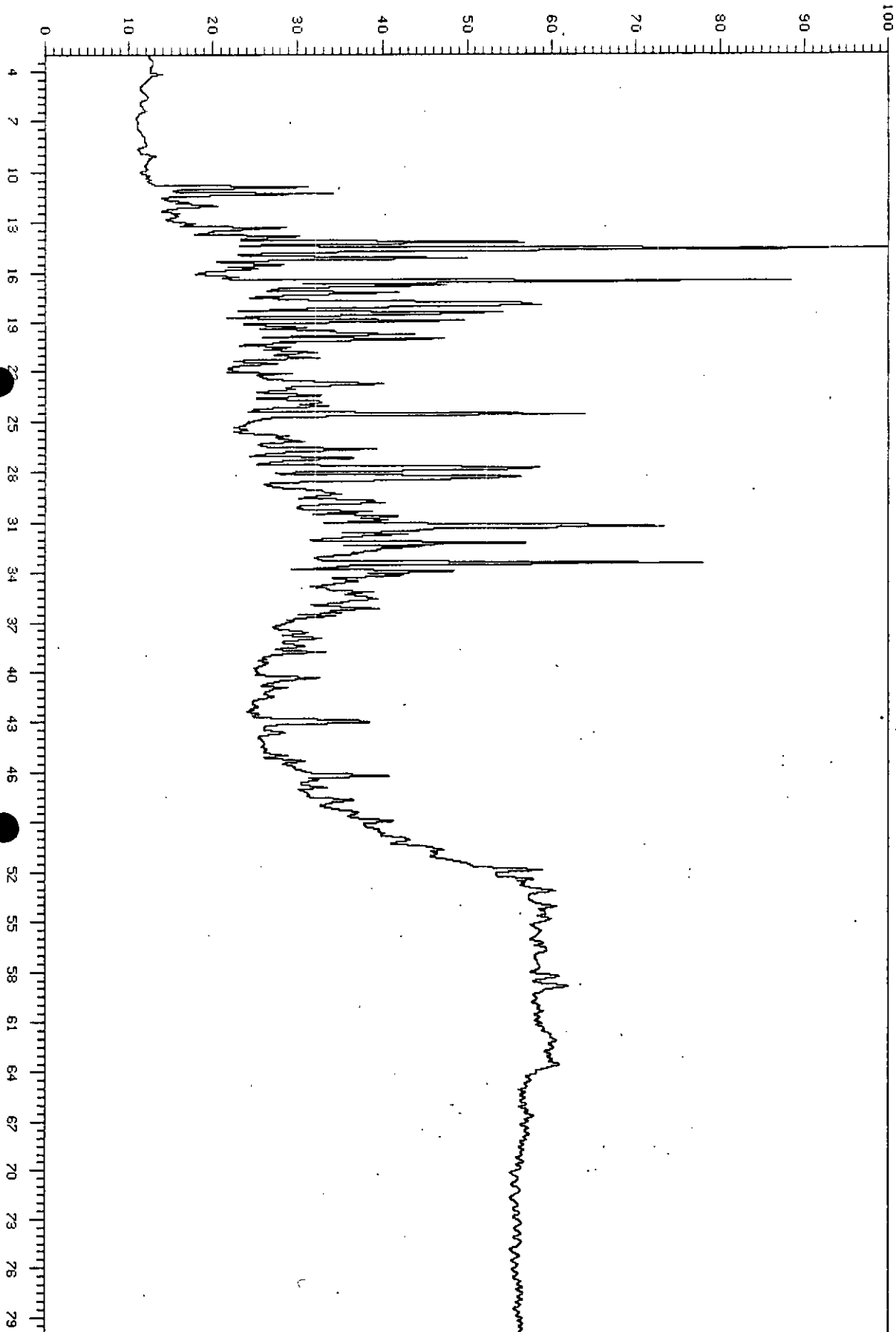
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6377A1 Sample #: 1 Injection #: 1

Sample Name :M-6377,A,30/4-1,AD

Maximum signal (%): 3.52



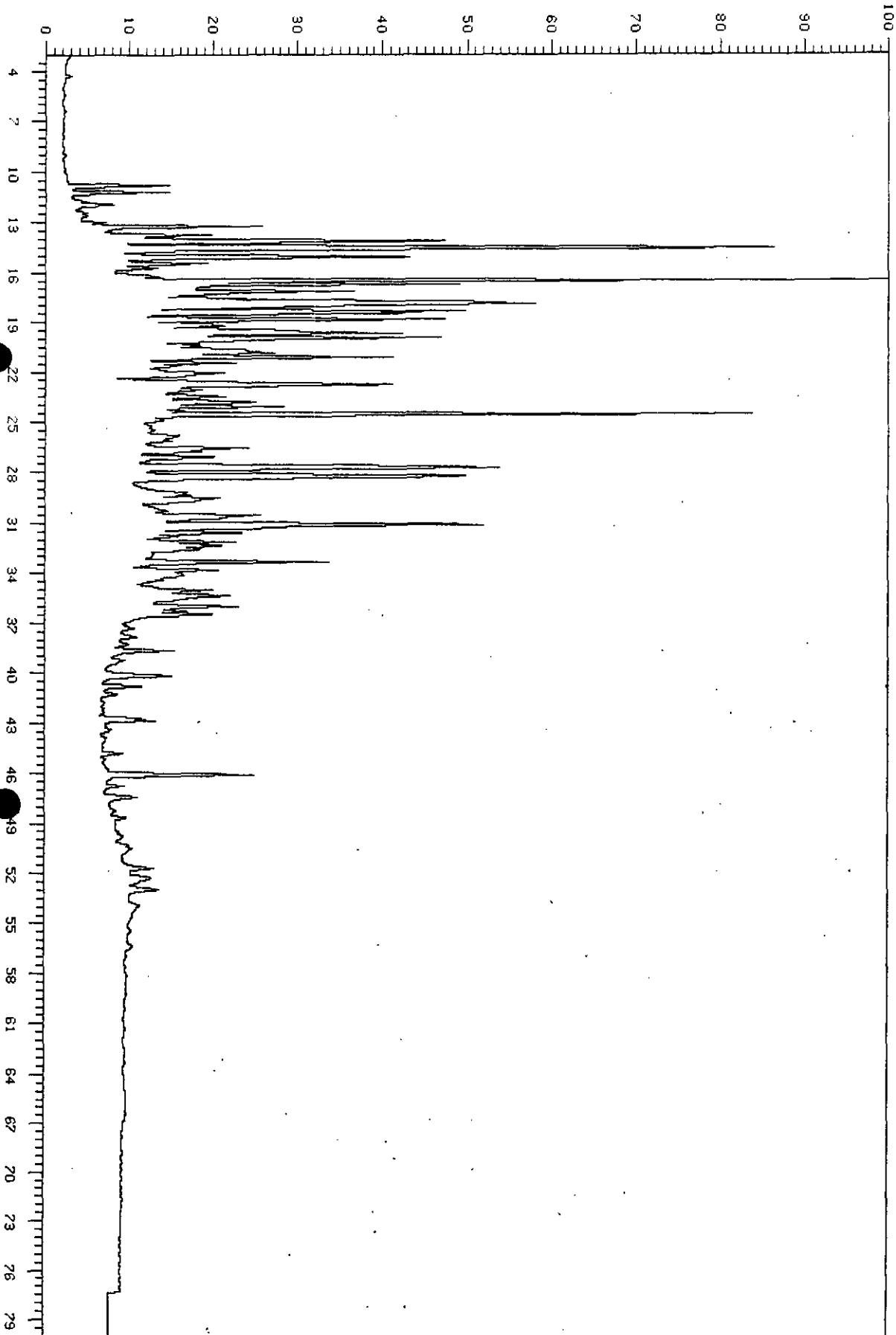
Printed at 15:53 on 01/Mar/83

4718

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6396A1 Sample #: 1 Injection #: 1  
Sample Name :M-6396,A,30/4-1,AD Maximum signal (%): 20.12

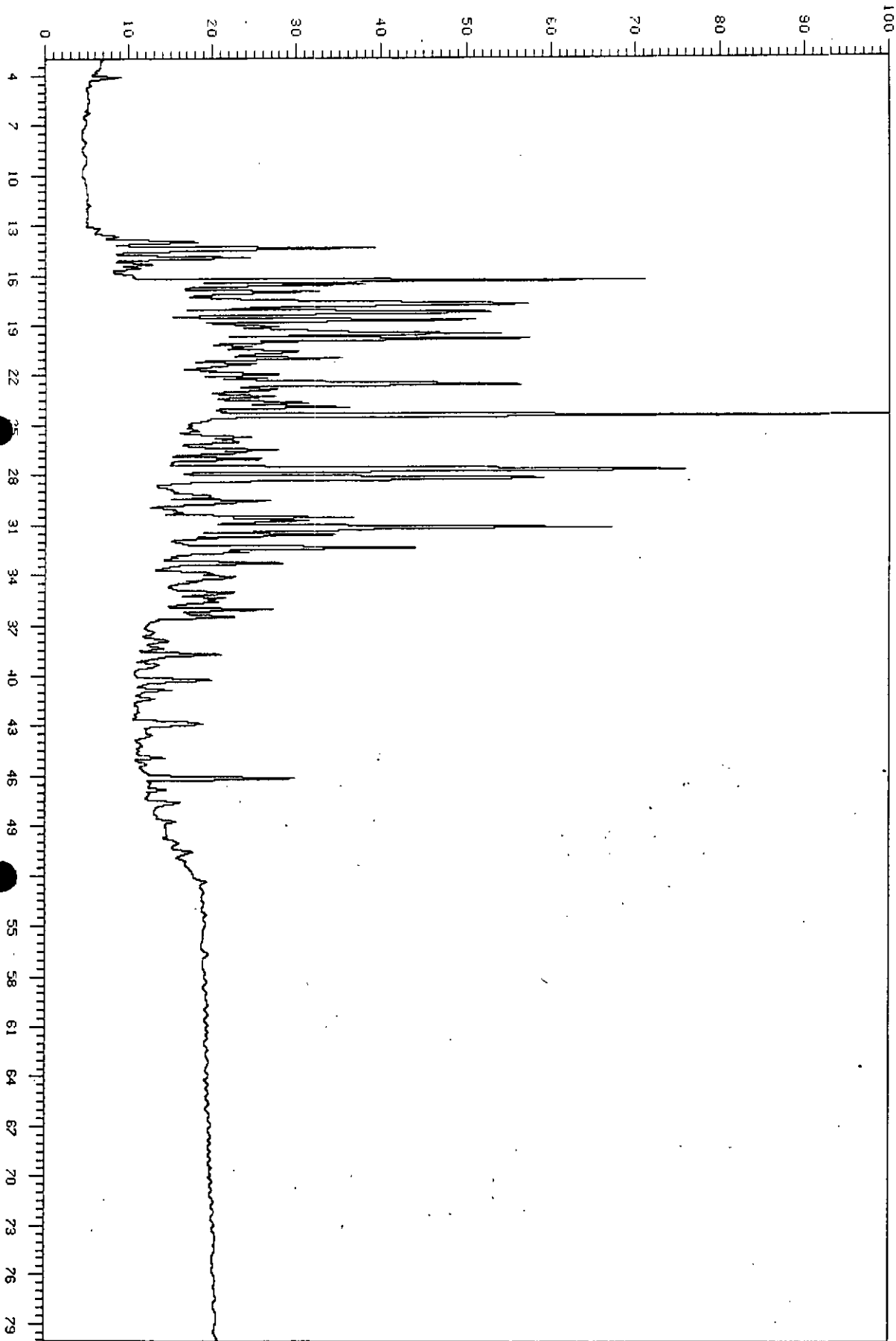


4829

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6432R1 Sample #: 1 Injection #: 1  
Sample Name :M-6432,A,30/4-1,AD Maximum signal (%): 7.41



4850

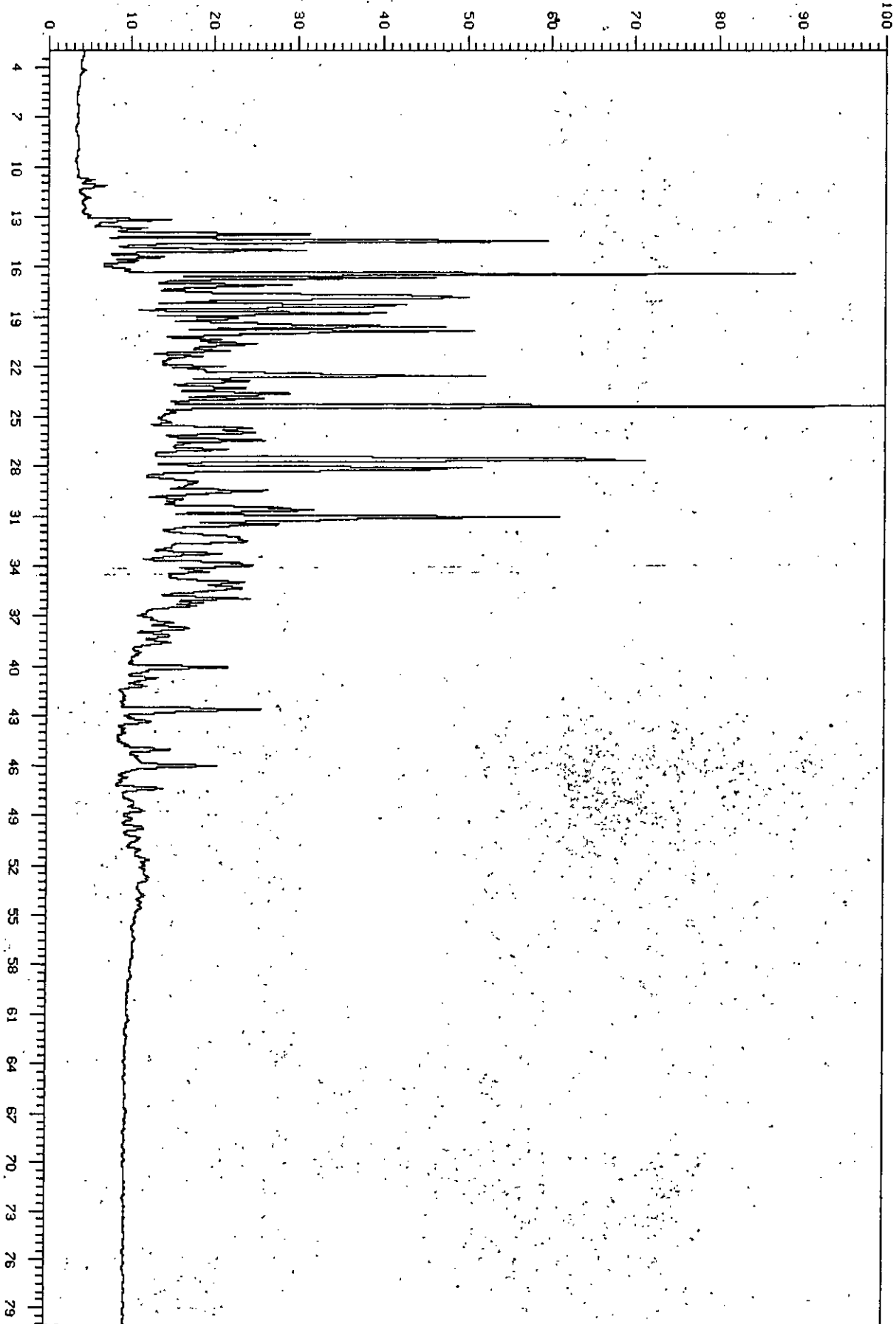
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6453R1 Sample #: 1 Injection #: 1

Sample Name :M-6453,A,30/4-1,AD

Maximum signal (%): 14.64



4868 see next

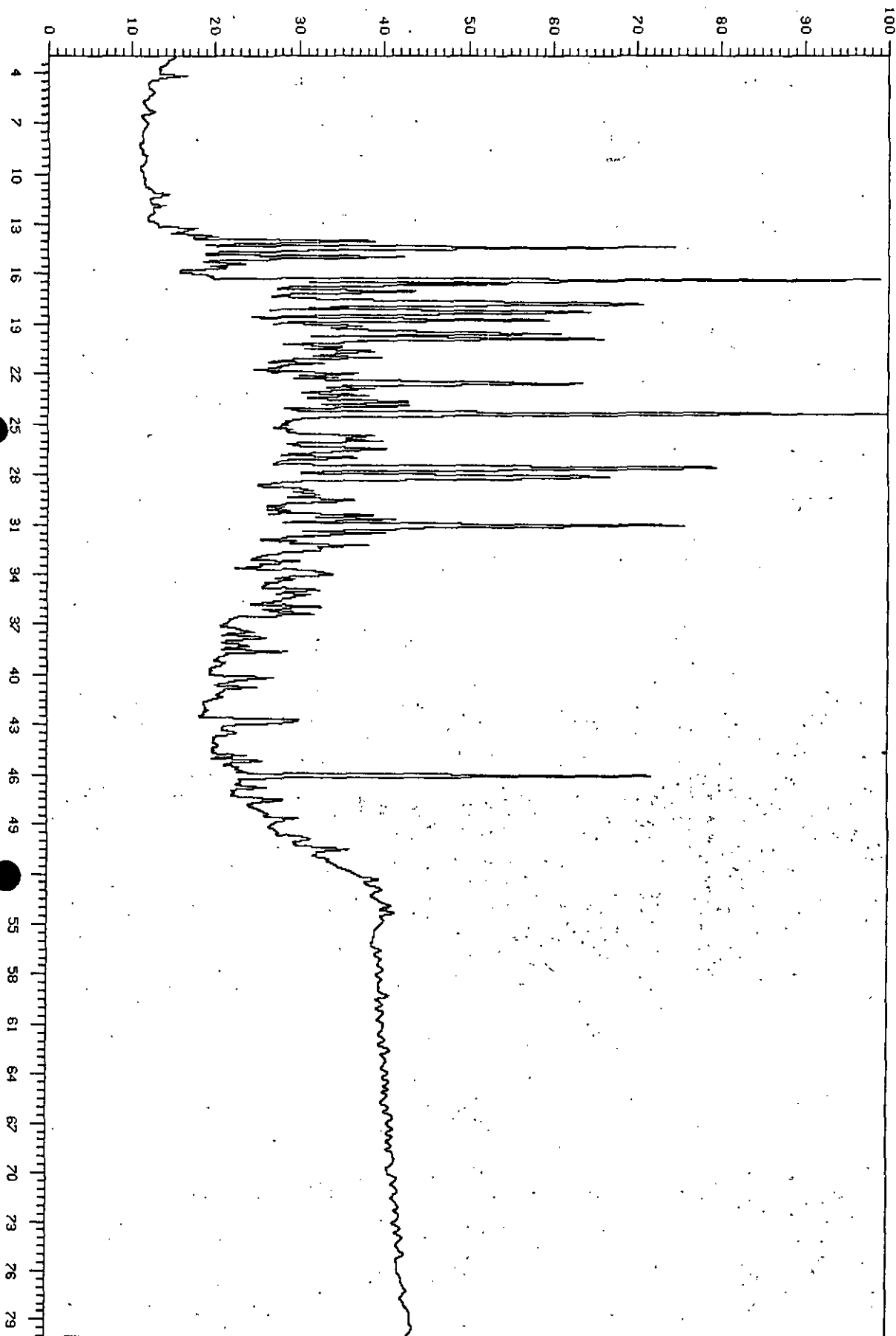
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6437R1 Sample #: 1 Injection #: 1

Sample Name : M-6437, A, 30/4-1, AD

Maximum signal (%): 3.71



486.6 Rerun

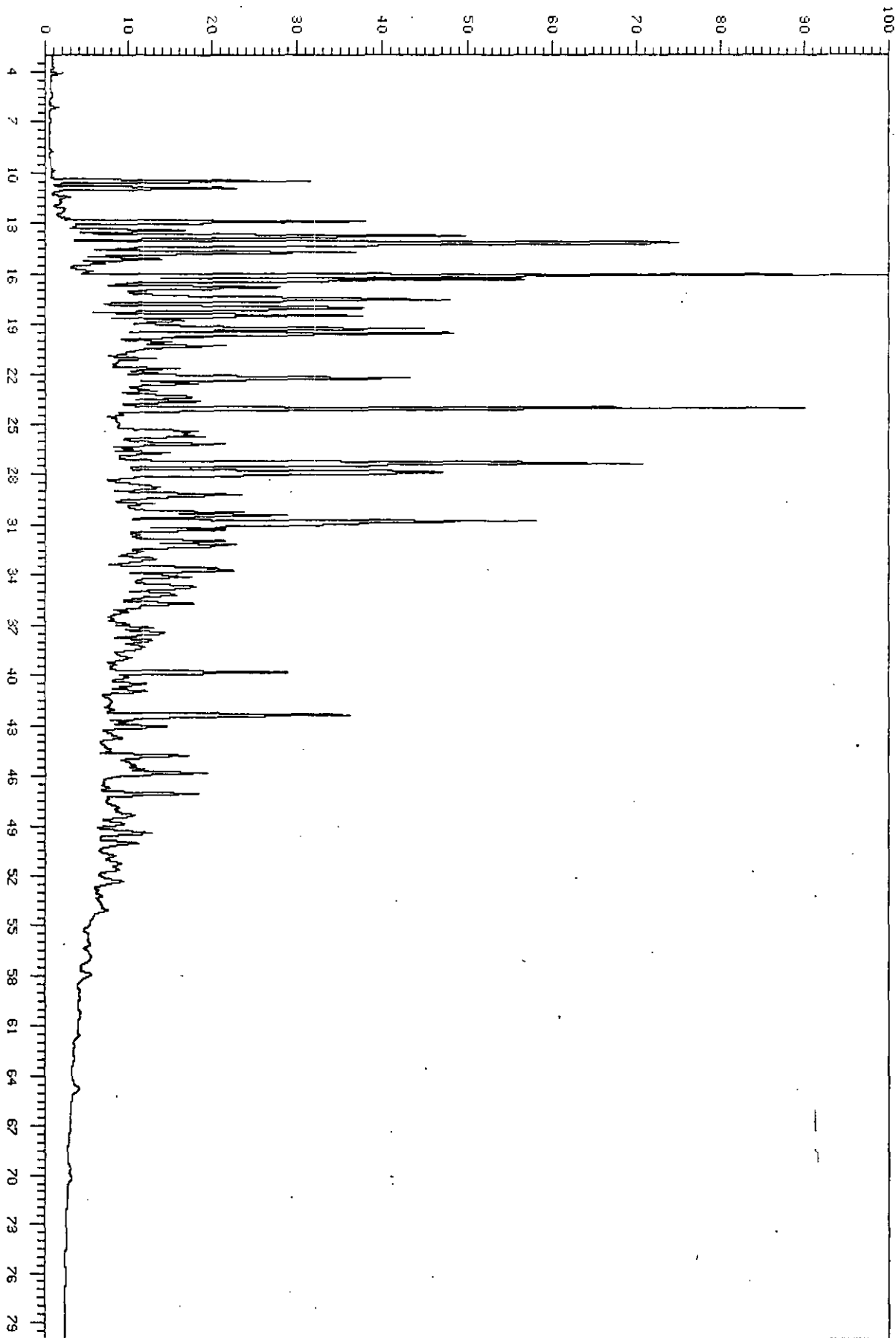
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6443R1 Sample #: 1 Injection #: 1

Sample Name : M-6443, R, 30/4-1, AD

Maximum signal (%): 76.55





Printed at 12:09 on 08/Mar/83

48.80

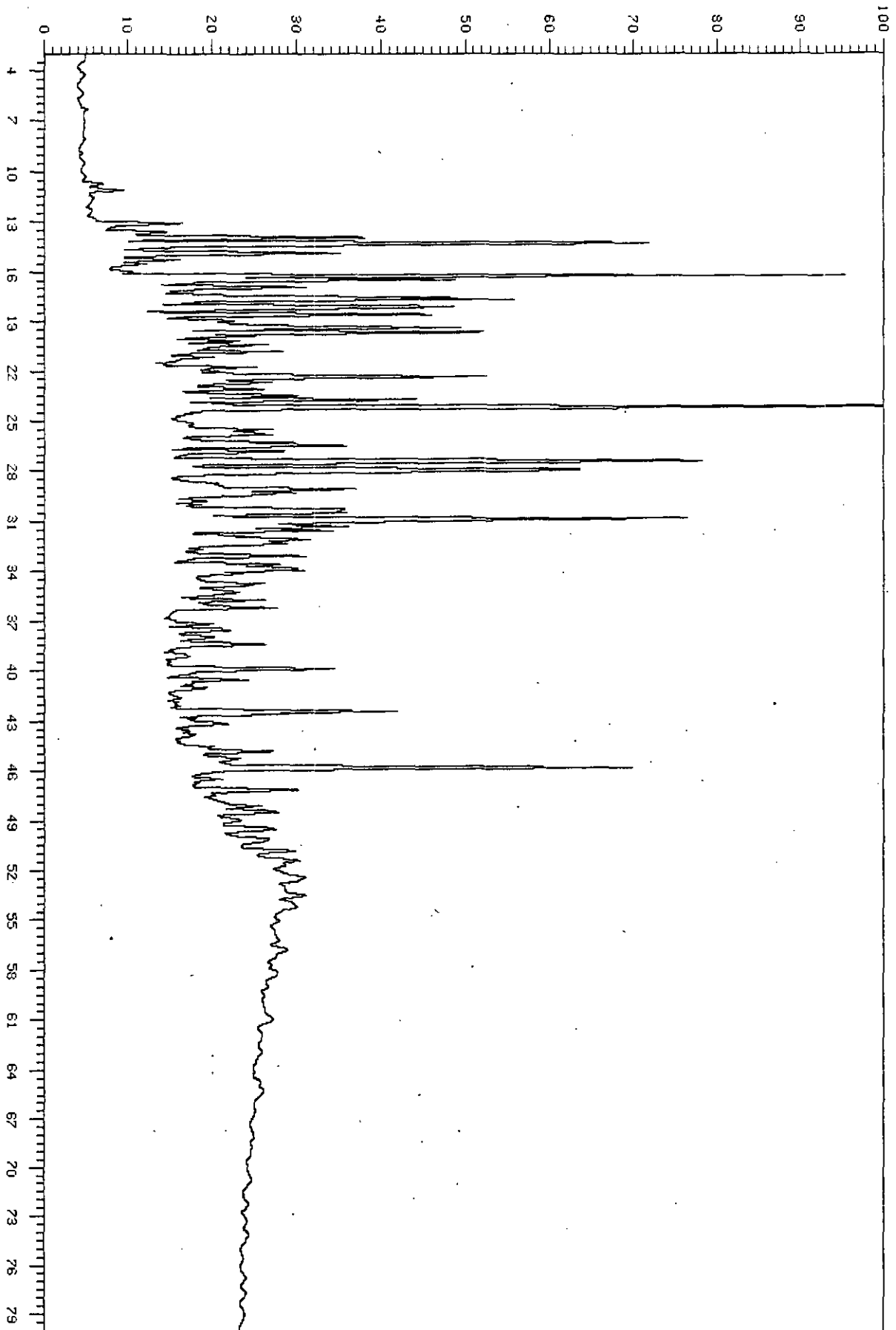
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6447A1 Sample #: 1 Injection #: 1

Sample Name :M-6447,A,30/4-1,AD

Maximum signal (%): 7.03



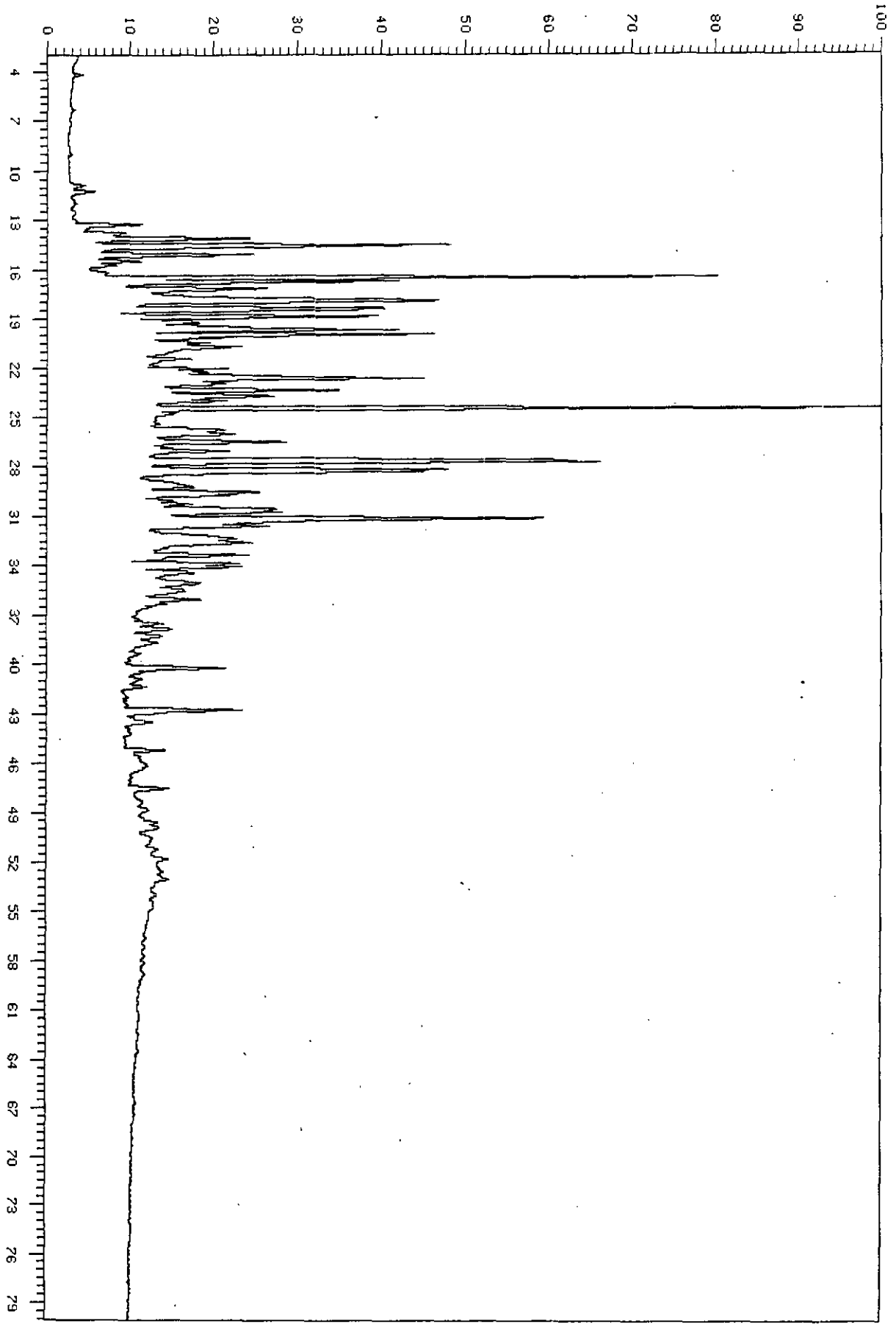
4.9.61-m

Printed at 13:03 on 03/Mar/83

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6472A1 Sample #: 1 Injection #: 1  
Sample Name : M-6472, R, 30/4-1, AD Maximum signal (%): 15.24

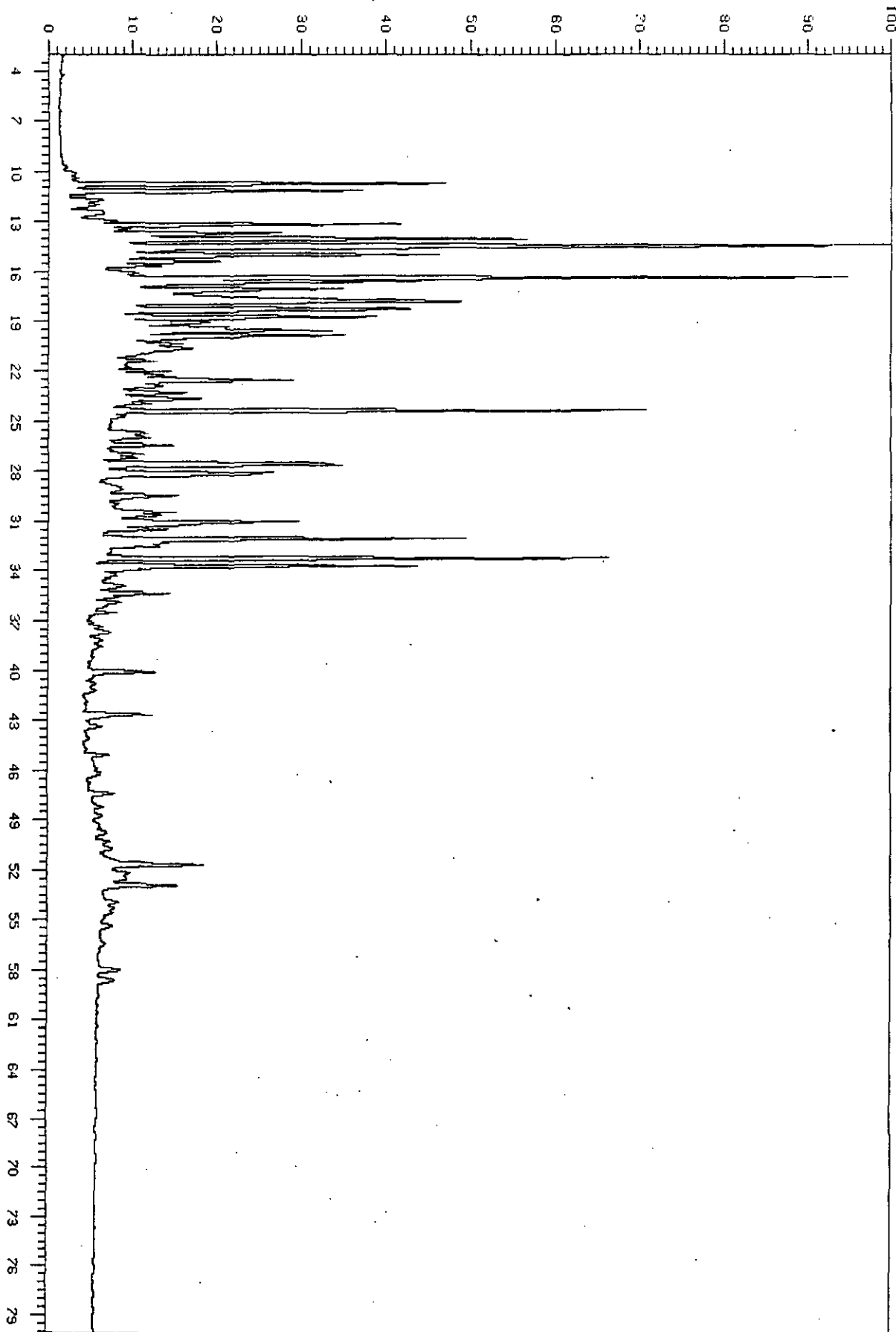


5003

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6485A1 Sample #: 1 Injection #: 1  
Sample Name :M-6485,A,30/4-1,AD Maximum signal (%): 30.69



5039

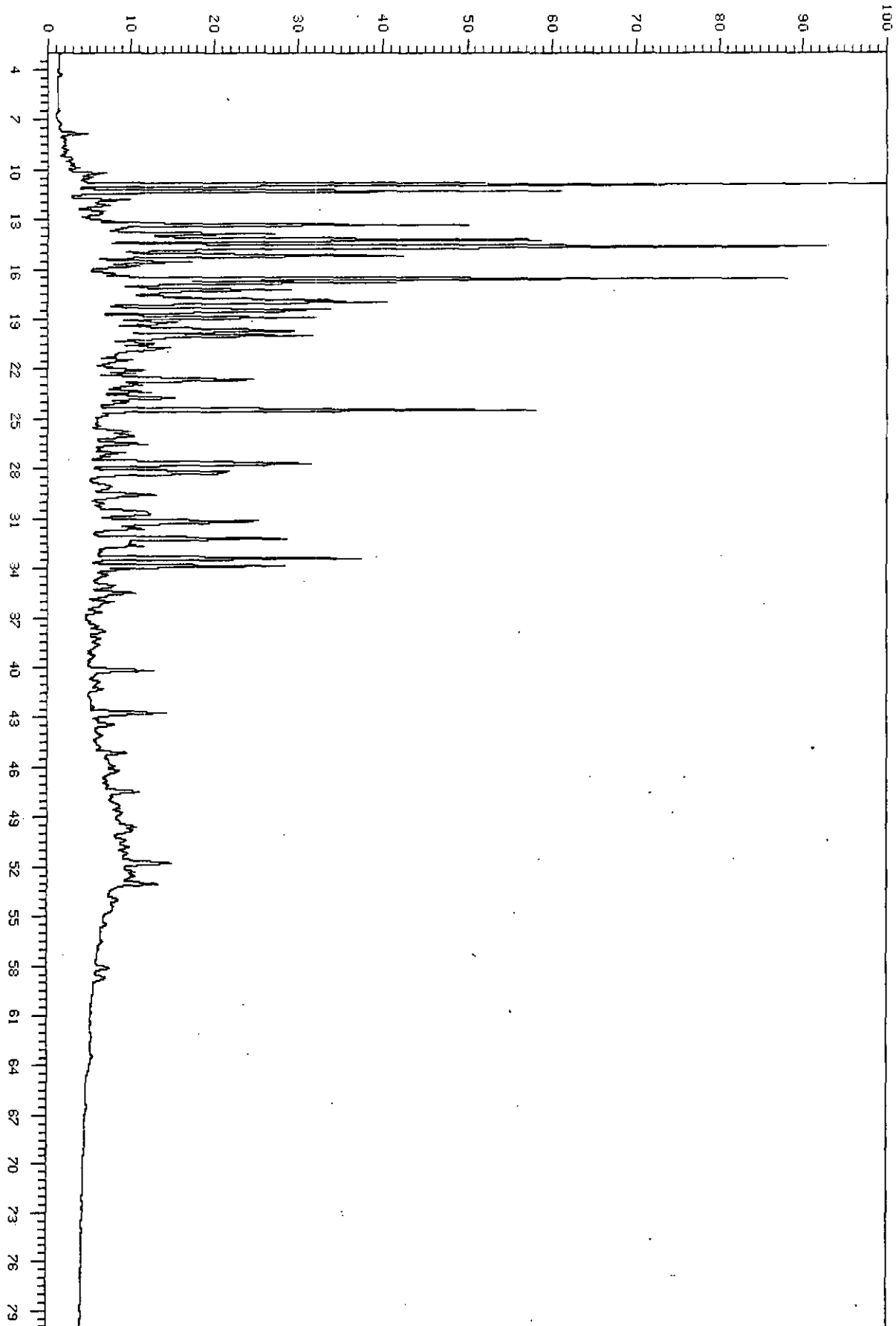
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6497A1 Sample #: 1 Injection #: 1

Sample Name :M-6497,A,30/4-1,AD

Maximum signal (%): 45.46



5081

Printed at 10:42 on 04/Mar/83

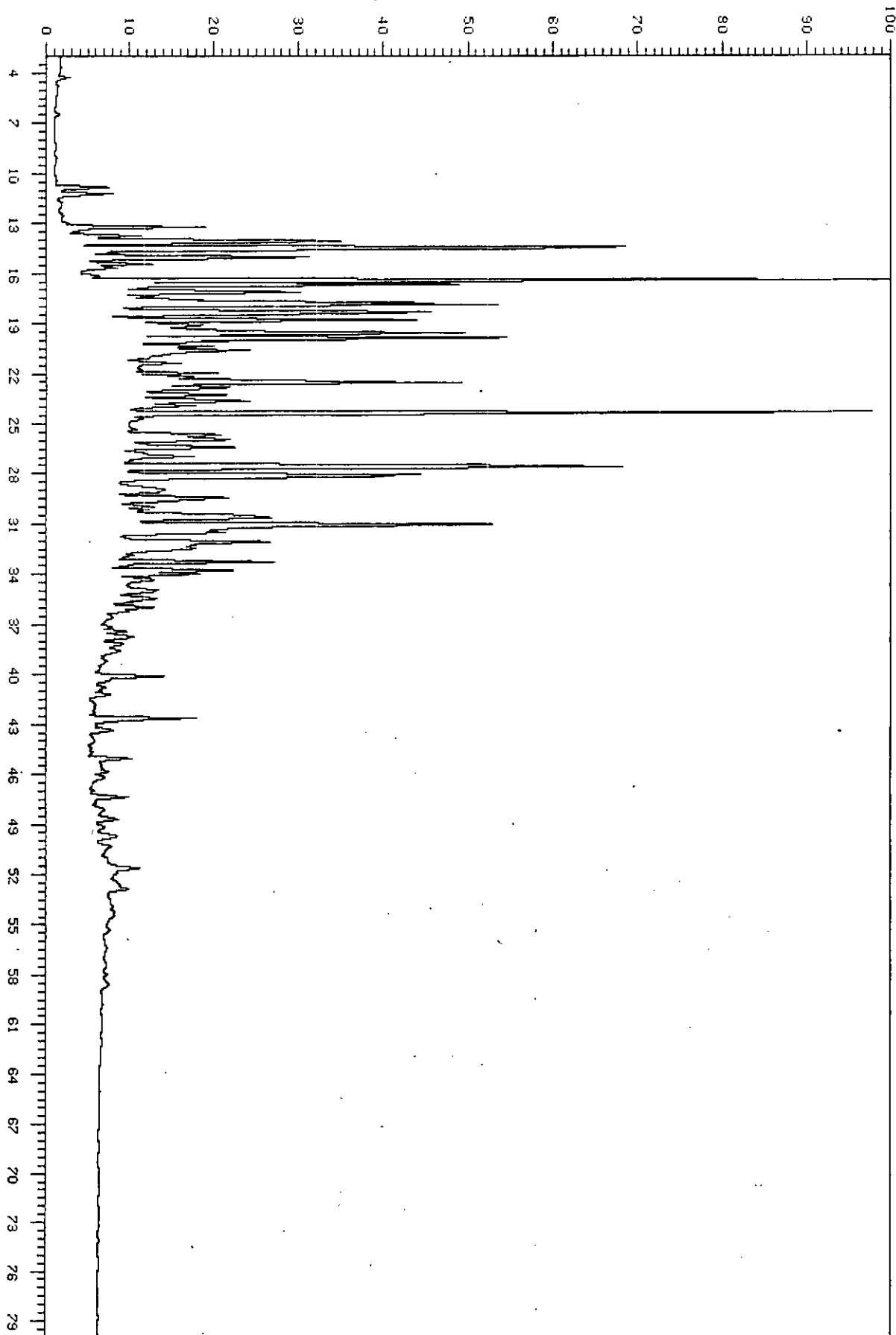
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6511A1 Sample #: 1 Injection #: 1

Sample Name : M-6511,A,30/4-1,AD

Maximum signal (%): 23.92

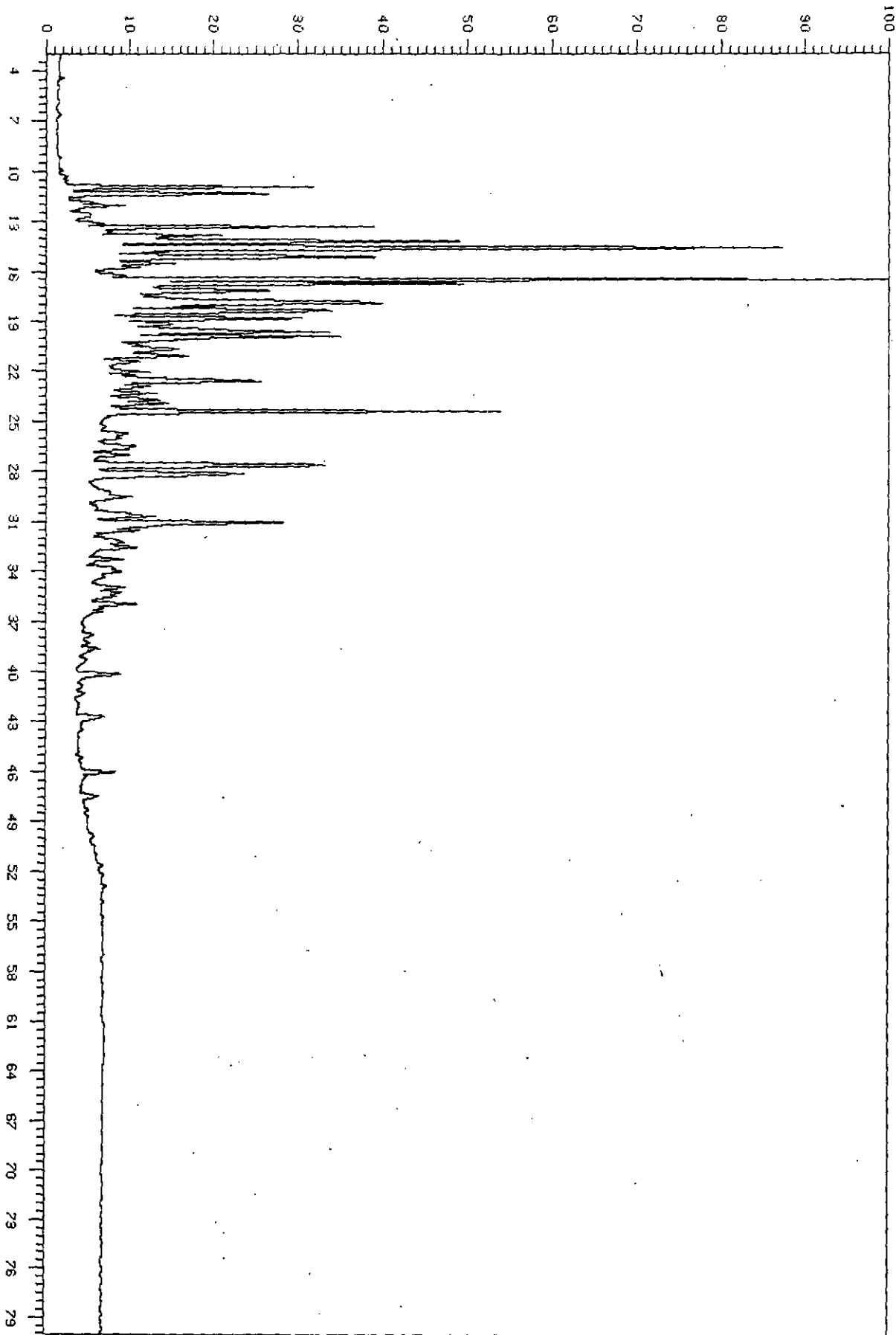


5159

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6537A1 Sample #: 1 Injection #: 1  
Sample Name : M-6537, A, 30/4-1, AD Maximum signal (%): 22.75

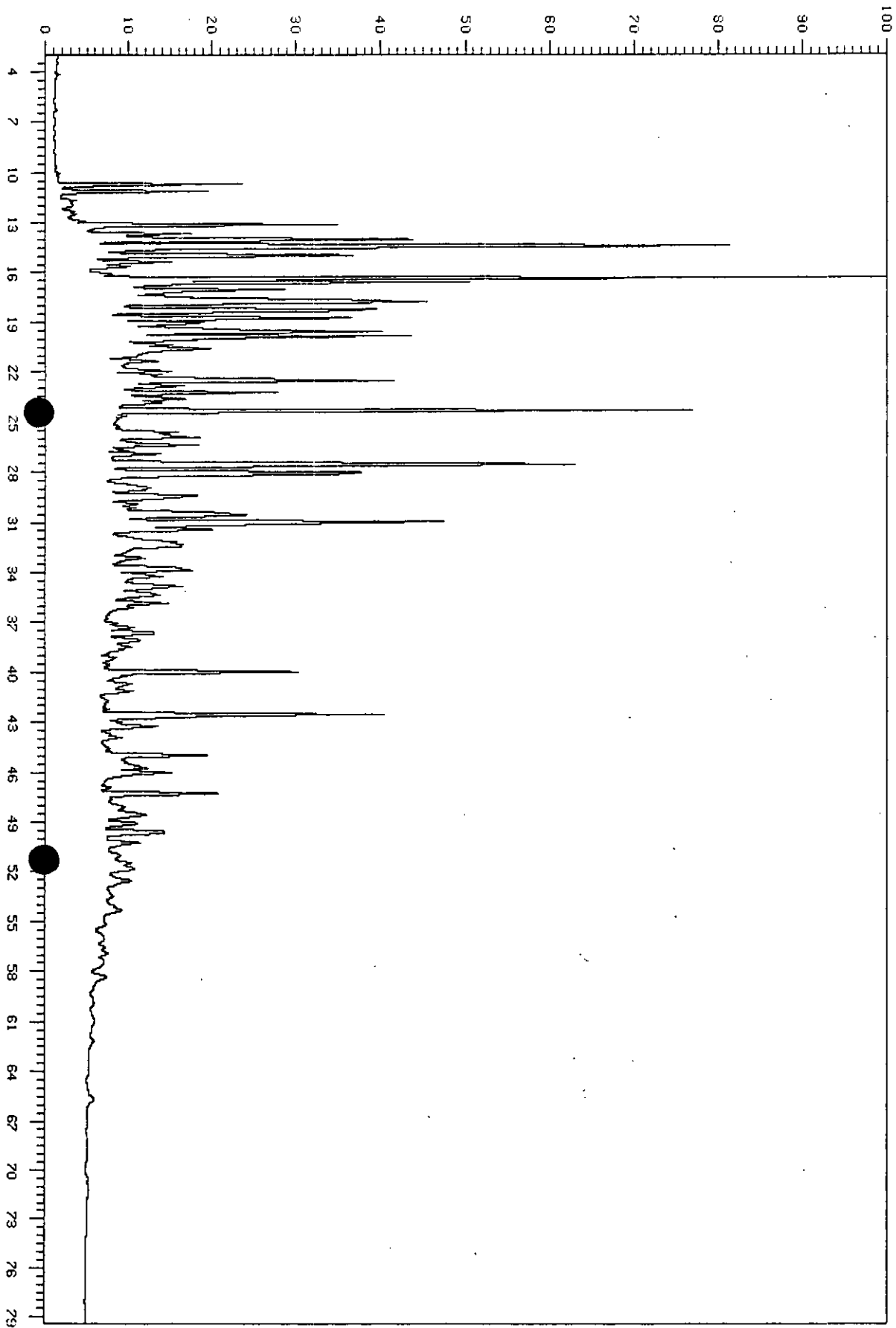


5219

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis : 6410M6557R1 Sample #: 1 Injection #: 1  
Sample Name : M-6557,R,30/4-1,AD Maximum signal (%): 33.98

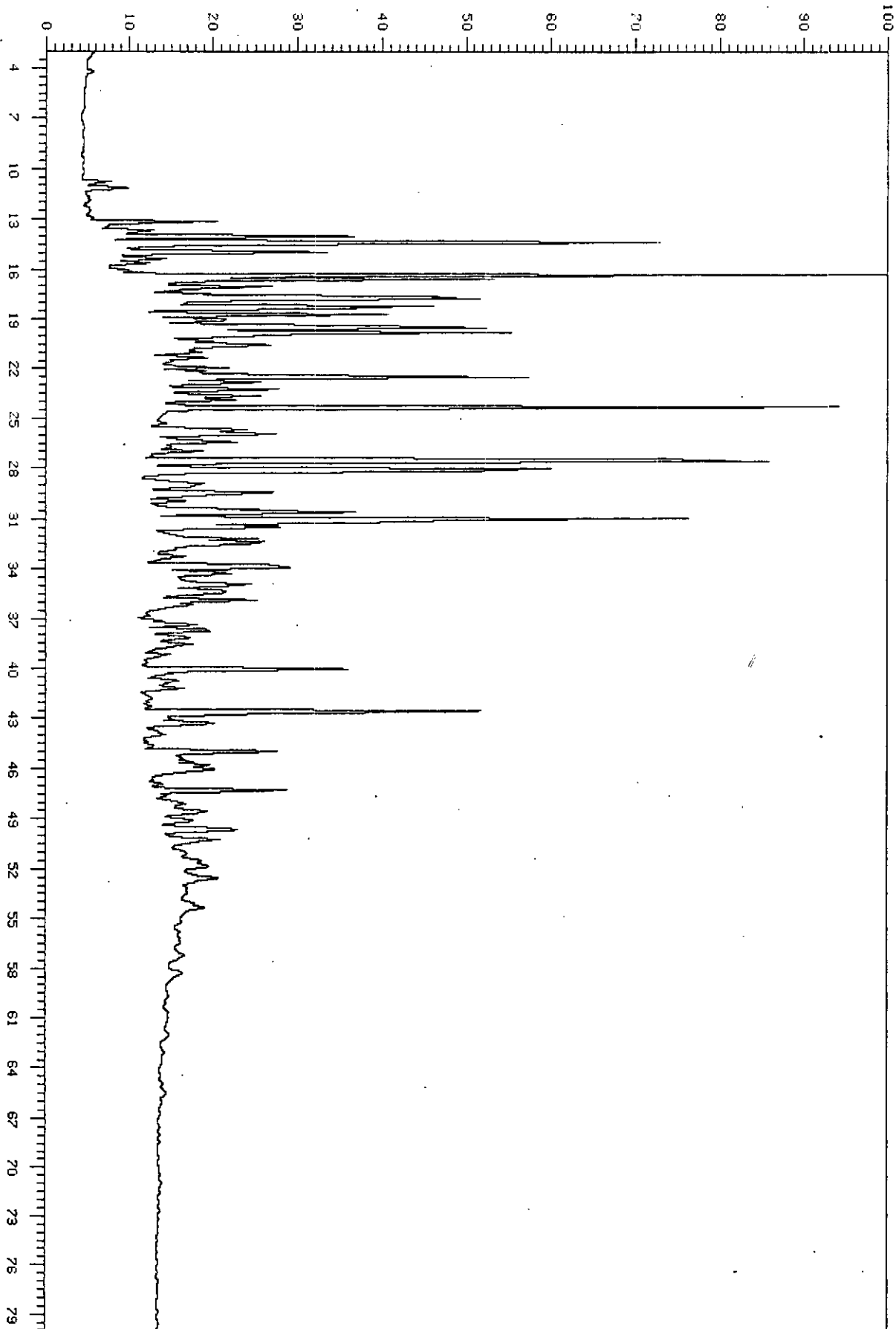


5267 m

RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6573R1 Sample #: 1 Injection #: 1  
Sample Name :M-6573,A,30/4-1,AD Maximum signal (%): 12.67





5369

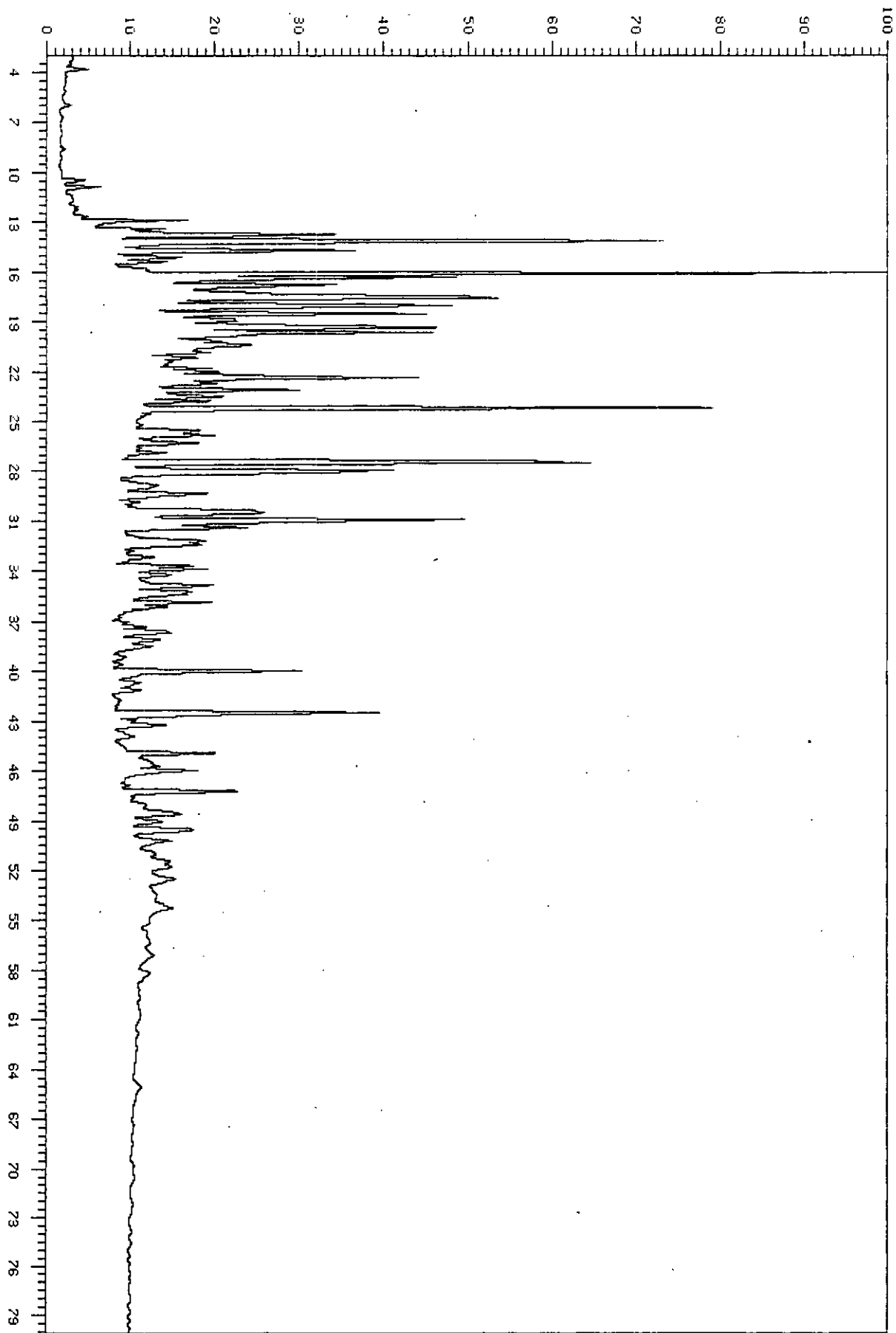
RAW DATA PLOT-CHANNEL 7

Box 1 of 1

Analysis :6410M6607A1 Sample #: 1 Injection #: 1

Sample Name :M-6607,A,30/4-1,AD

Maximum signal (%): 15.37



Printed at 22:05 on 07/Mar/83

RAW DATA PLOT-CHANNEL 7

544.1 m

Box 1 of 1

Analysis : 6410M6630A1 Sample #: 1 Injection #: 1

Sample Name : M-6630, R, 30/4-1, RD

Maximum signal (%): 19.58

