STATOIL

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Title AN APPRAISAL OF POSSIBLE OIL STAINING IN SAMPLES FROM DEPTH INTERVALS 2200-2315 AND 2672-2709.05 mRKB, WELL 6507/11-4

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Abstract

See p. ii.

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TABLE 1. DEPTHS FOR SAMPLES FROM WELL 6507/11-4

SAMPLE NO.	DEPTH (mRKB)
S6428	2200.00
S6429	2220.00
S6430	2230.00
S6431	2240.00
S6432	2315.00
S6433	2672.00
S6434	2675.00
S6435	2678.00
S6436	2681.00
S6437	2684.00
S6438	2688.12
S6439	2692.99
S6440	2697.05
S6441	2704.10
S6442	2709.05

TABLE 2. LITHOLOGICAL DESCRIPTION FOR SAMPLES FROM WELL 6507/11-4

CUTTINGS 125µ - 1mm.

SAMPLE NO.	DEPTH (mRKB)	LITHOLOGY
S6428	2200	100% Claystone, grey, mod.hard, occ. silty. Tr. Redbrown claystone, pyrite, glauconite. (Gypsum?)
S6429	2220	100% Claystone, as above. Tr. As above.
S6430	2230	100% Claystone, as above. Tr. As above.
S6431	2240	100% Claystone, light grey to grey, as above. Tr. As above.
S6432	2315	100% Claystone, grey, as above. Tr. As above.
S6433	2672	100% Claystone, grey - med.grey, mod.hard, silty. Tr. Quartz, mica.
S6434	2675	90% Claystone, as above. 10% Quartz, clear. Tr. Mica.
S6435	2678	90% Quartz, clear. 10% Claystone, as above. Tr. Mica.
S6436	2681	90% Quartz, clear. 10% Claystone, as above. Tr. Mica.
S6437	2684	80% Quartz, clear. 20% Claystone, as above. Tr. Mica.

TABLE 2. LITHOLOGICAL DESCRIPTION FOR SAMPLES FROM WELL 6507/11-4 (CONT.)

CORE

SAMPLE NO.	DEPTH (mRKB)	LITHOLOGY
S6438	2688.12	Sandstone, light grey - grey, mod.hard - loose, med.fine - fine, micaceous.
S6439	2692.99	Sandstone, light grey, mod.hard, fine, micaceous.
S6440	2697.05	Sandstone, light grey, mod.hard - loose, med.fine - fine, micaceous.
S6441	2704.10	Sandstone, light grey, mod.hard - loose, med.fine - fine, micaceous.
S6442	2709.05	Sandstone, light grey, mod.hard - loose, fine, micaceous.

TABLE 3. ROCK EVAL-TYPE DATA FOR SAMPLES FROM WELL 6507/11-4

DEPTH (mRKB)	SAMPLE NO.	S1[a]	S2[b]	PP[c]	PI[d]	Tmax[e]
2200.00	S6428	0.23	0.20	0.43	0.53	
2220.00	S6429	0.15	0.20	0.35	0.43	
2230.00	S6430	0.19	0.31	0.50	0.38	
2240.00	S6431	0.19	0.14	0.33	0.58	
2315.00	S6432	0.22	0.32	0.54	0.41	
2672.00	S6433	0.22	1.0	1.3	0.17	421
2675.00	S6434	0.43	1.7	2.1	0.20	420
2678.00	S6435	0.09	0.48	0.57	0.16	
2681.00	S6436	0.05	0.14	0.19	0.26	
2684.00	S6437	0.09	0.36	0.45	0.20	
2688.12	S6438	0.04	0.07	0.11	0.36	
2692.99	S6439	0.02	0.02	0.04	0.50	
2697.05	S6440	0.02	0.02	0.04	0.50	
2704.10	S6441	0.03	0.04	0.07	0.43	
2709.05	S6442	0.02	0.02	0.04	0.50	

a S1 = measure of thermally volatile organic material present (≡ "petroleum" or "bitumen") in mg hydrocarbons/g rock
b S2 = organic material liberated by pyrolysis (≡ "potential petroleum") in mg hydrocarbons/g rock
c Total petroleum potential (S1+S2)
d Production index, S1/(S1+S2)
e Peak temperature for generation of S2 in °C

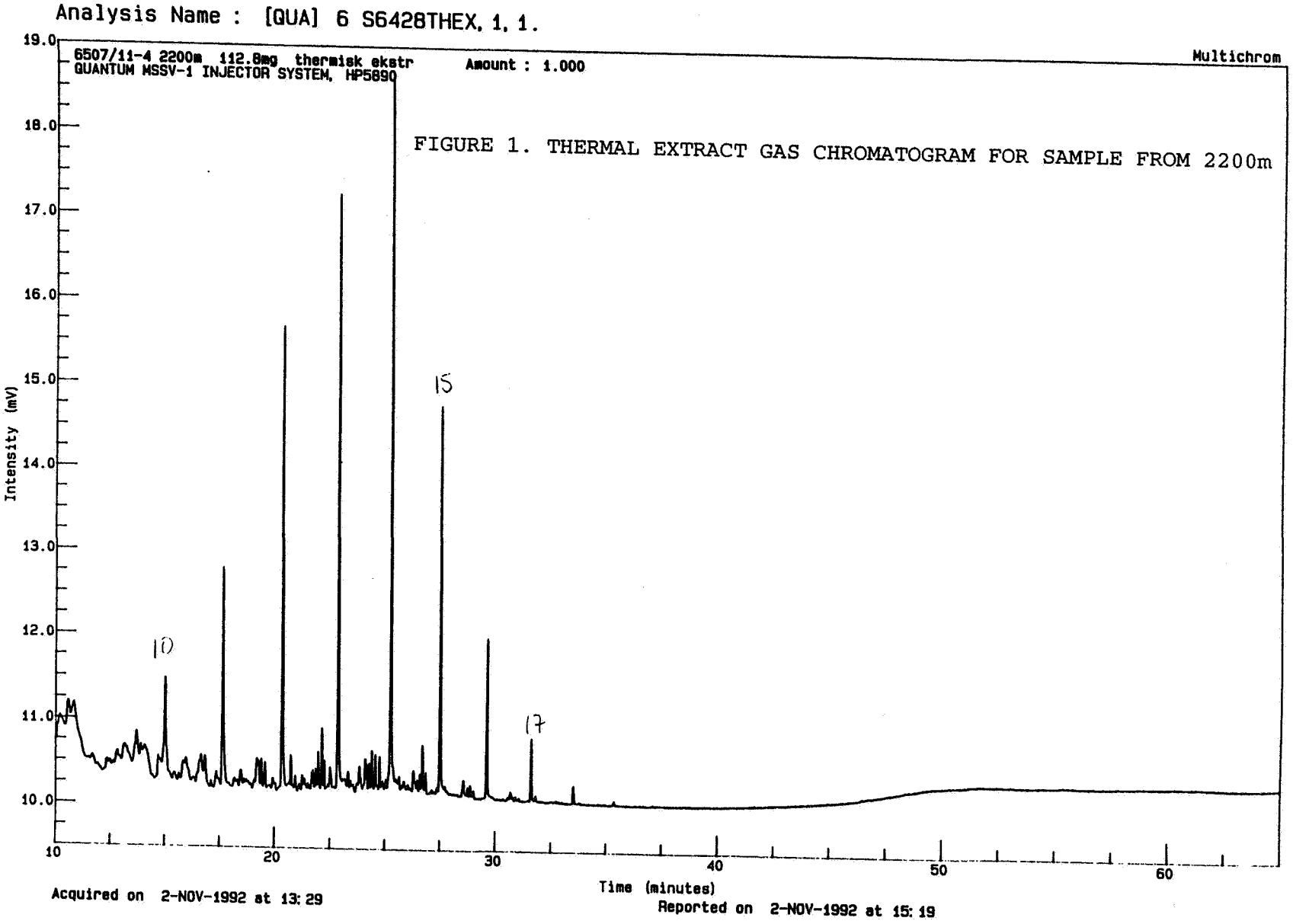


FIGURE 1. THERMAL EXTRACT GAS CHROMATOGRAM FOR SAMPLE FROM 2200m

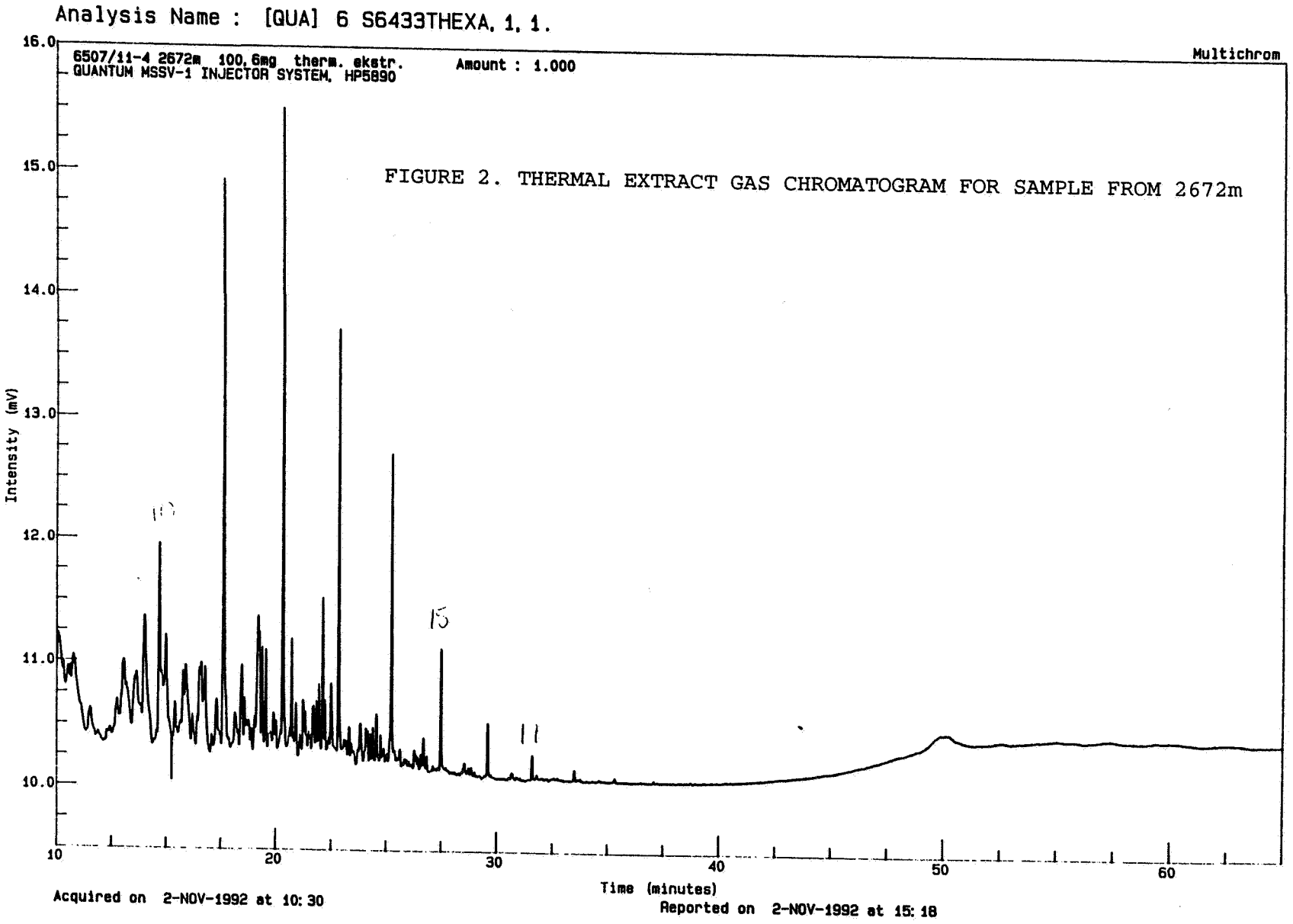
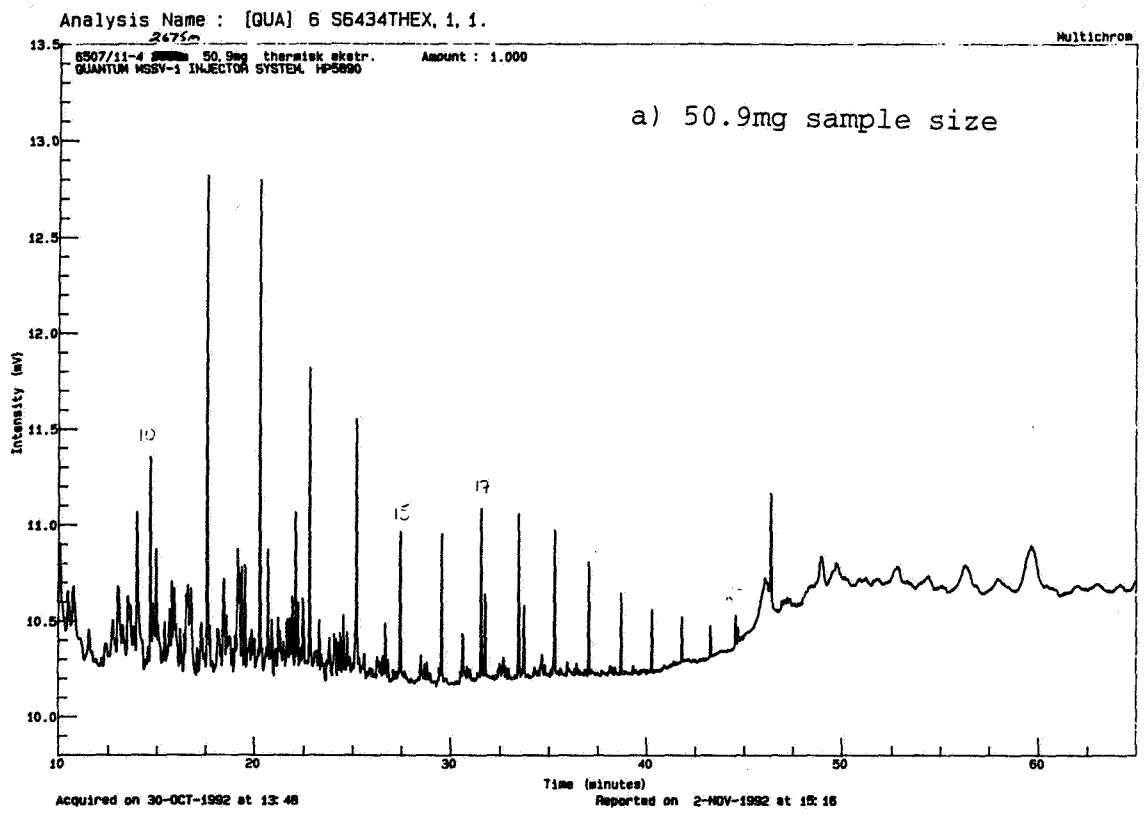


FIGURE 2. THERMAL EXTRACT GAS CHROMATOGRAM FOR SAMPLE FROM 2672m

FIGURE 3. THERMAL EXTRACT GAS CHROMATOGRAM FOR SAMPLE FROM 2675m



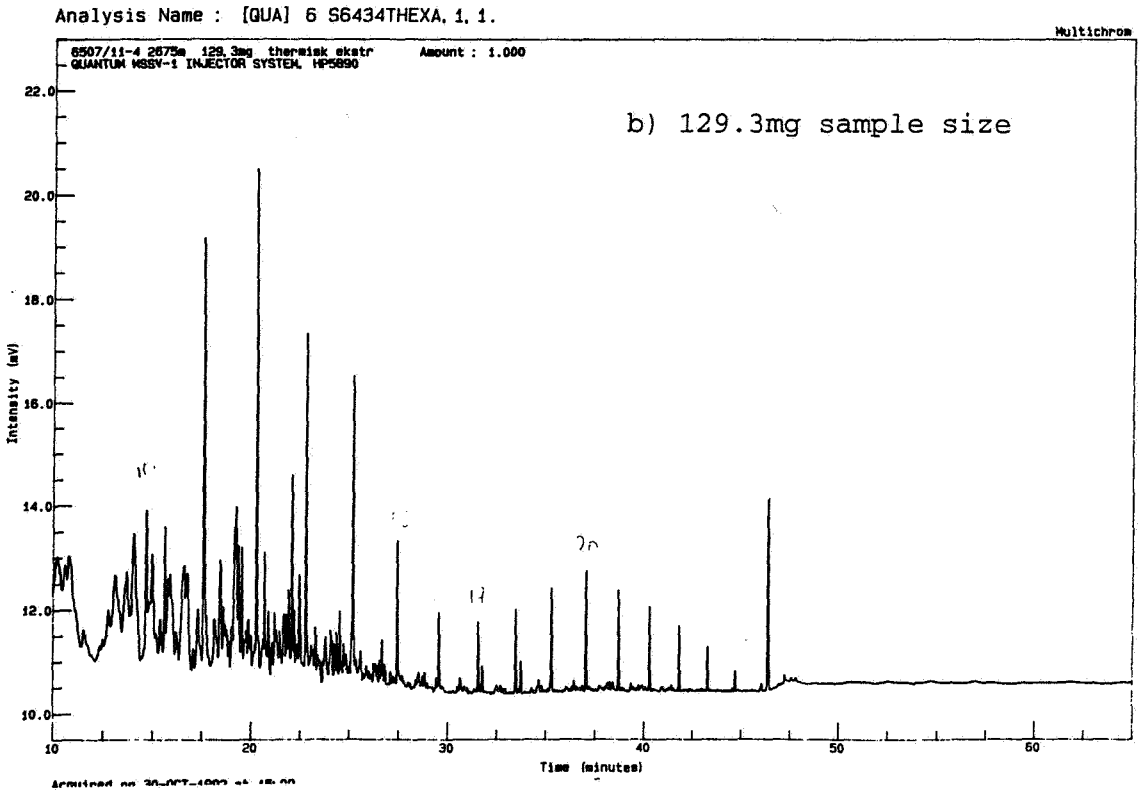
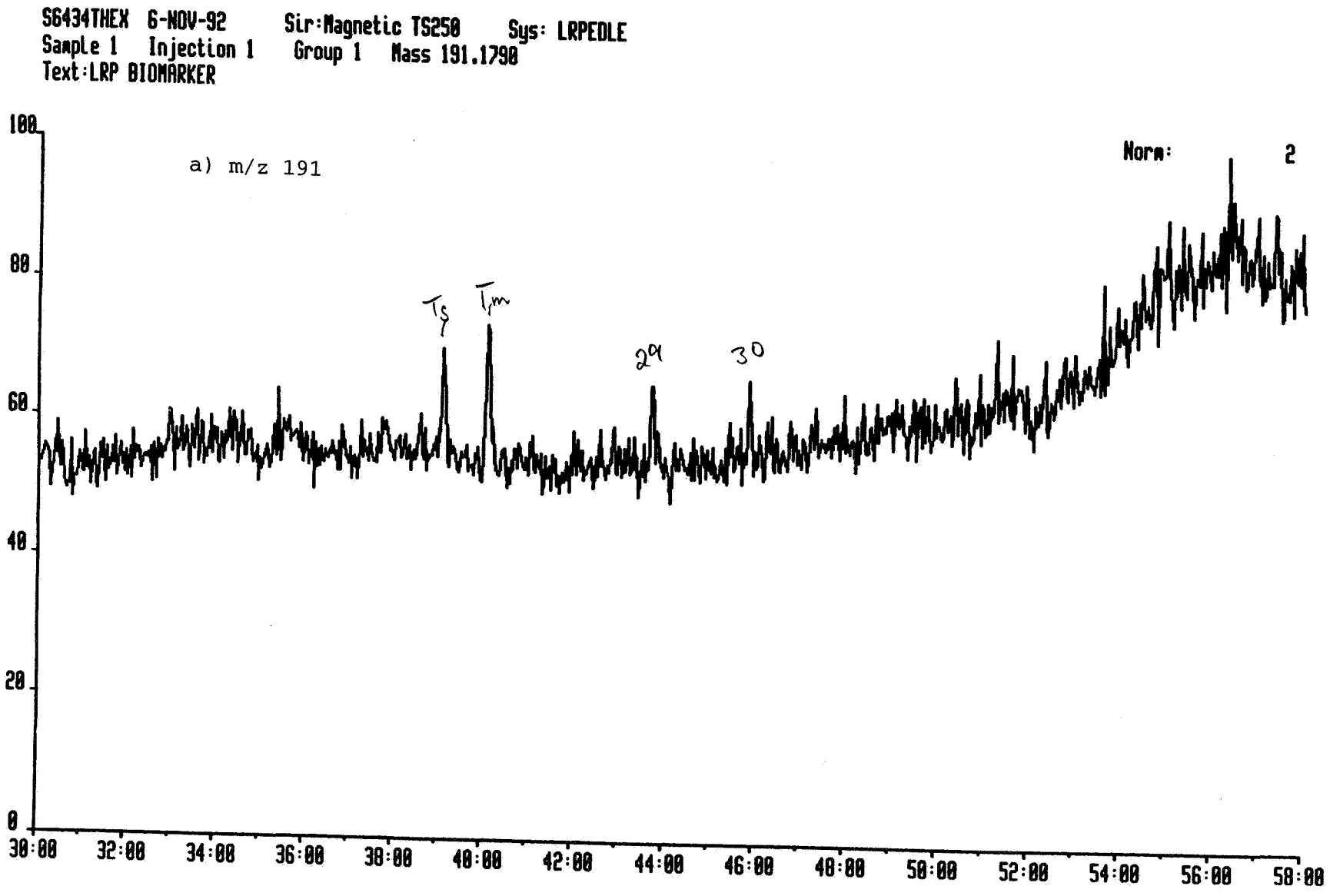


FIGURE 4. MASS FRAGMENTOGRAMS FROM THERMAL EXTRACT GAS CHROMATOGRAPHY-MASS SPECTROMETRY OF SAMPLE FROM 2675m



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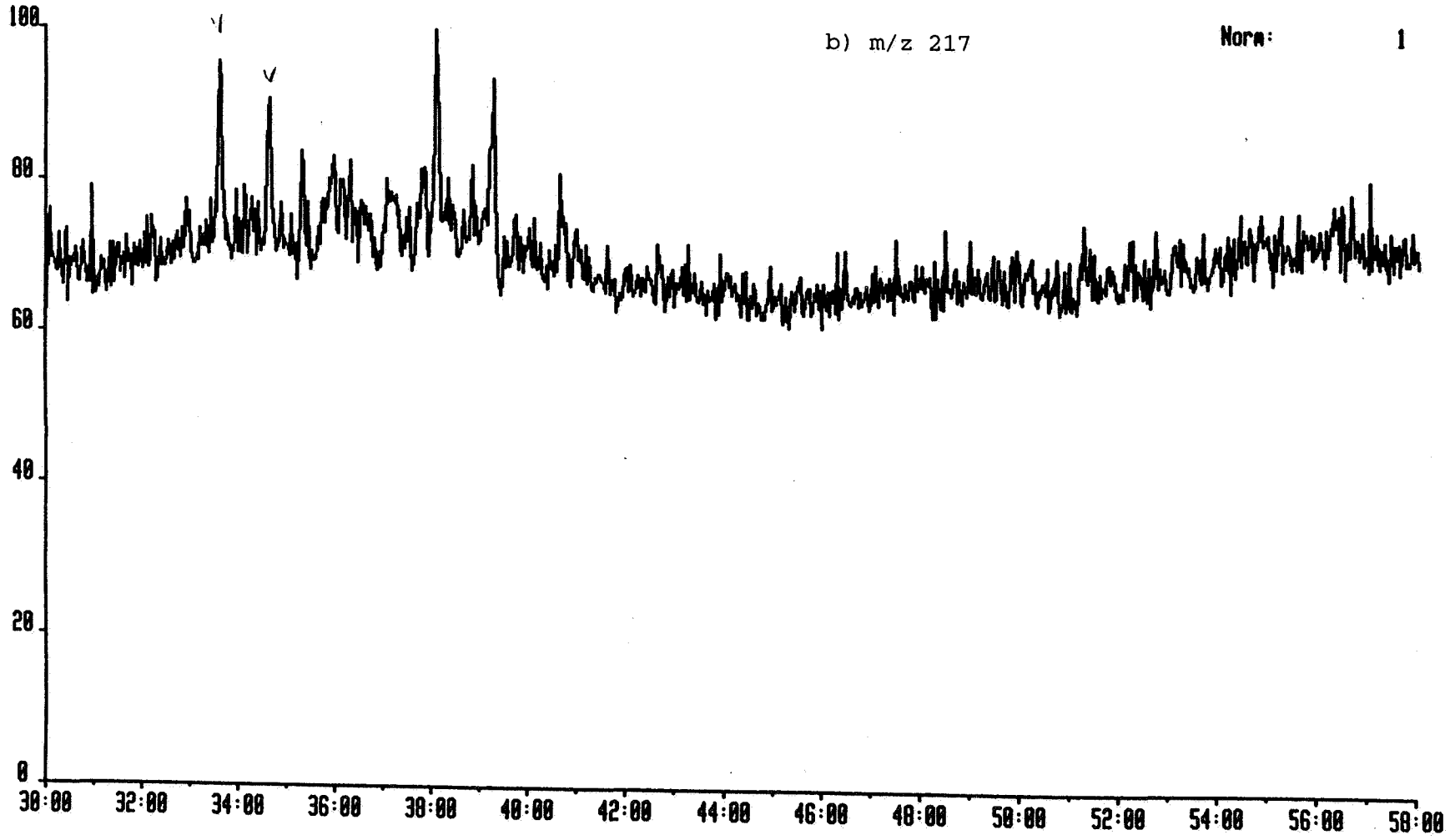

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