



# Curie Point Injector JCI-22

## Acrylic acid polymer, SBR

JCI-22	Pre-heater	ON
	Purge gas	ON
	Pyrofoil	F590°C
	Pyrolysis time	5sec

M S	Mass range	33~550
	EM gain	1.75 kv
	Solvent cut	0 min
	Scan time	0.2~40 min

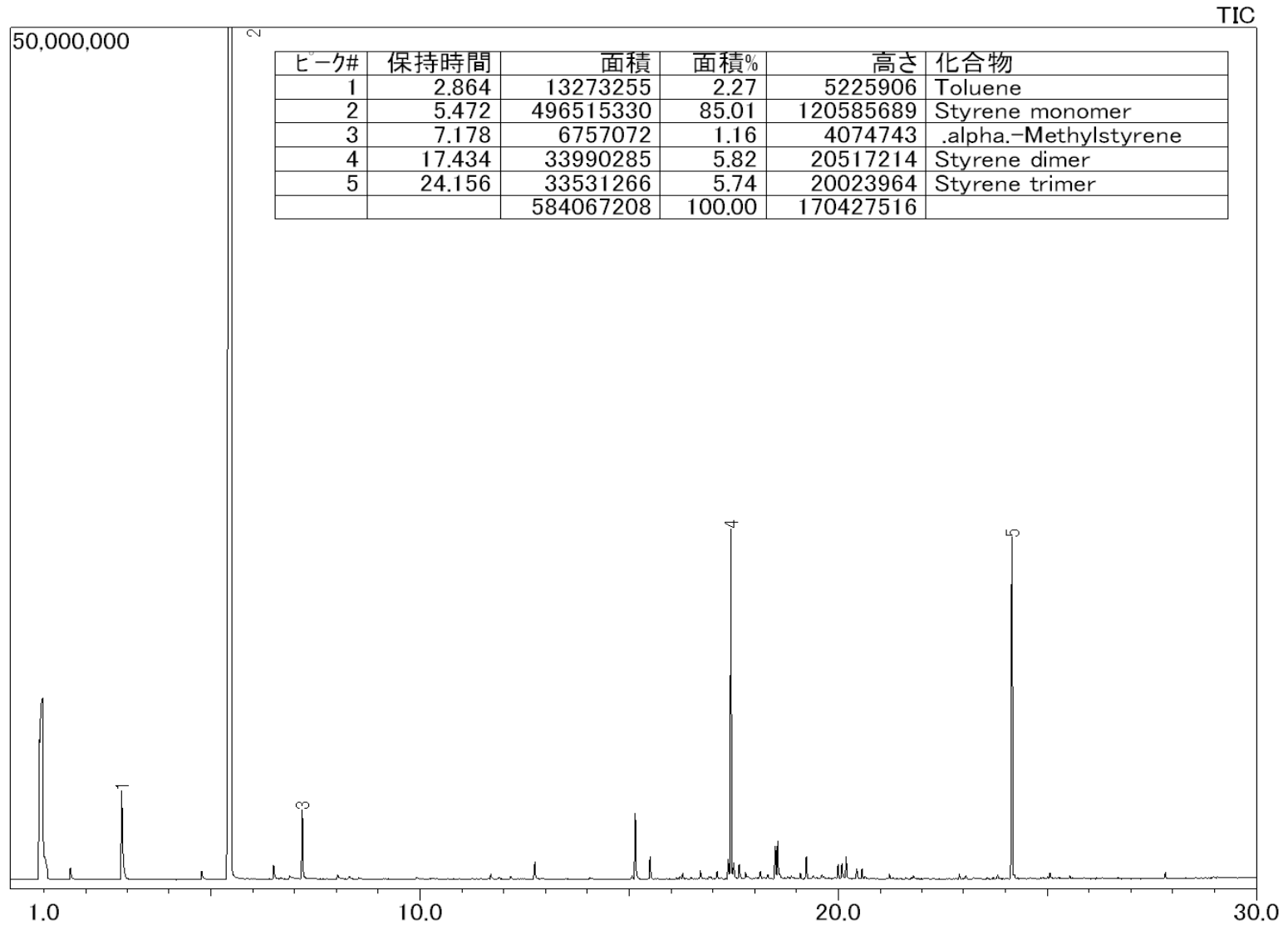
Column	DB-5MS	Inside diameter: 0.25 mm
		Length: 30 m
		Film thickness: 0.25 um

GC	Constant flow mode	
	Column flow rate	1.0 ml/min (He)
	Velocity	36.1 cm/sec
	Oven temperature	Initial: 40°C(3 min)
		Rate: 10°C/min
		Final: 320°C(9 min)
	Head pressure	Initial: 48.9 kpa (3 min)
		Rate: 3.8 kpa/min
		Final: 155.3 kpa (9 min)
	Analysis time	40 min
	Injector temperature	320°C
	Detector temperature	320°C
	Equivalent time	3 min
Split ratio	1/100	
Total flow rate	103 ml/min	
Purge gas flow rate	5.0 ml/min (at 100 kpa)	



# JCI-22 Evaluation

## Standard Polystyrene (M/W13,000) ■■■0.1 to 0.5mg



# Material Characterization

## Unknown samples Analysis with JCI-22s

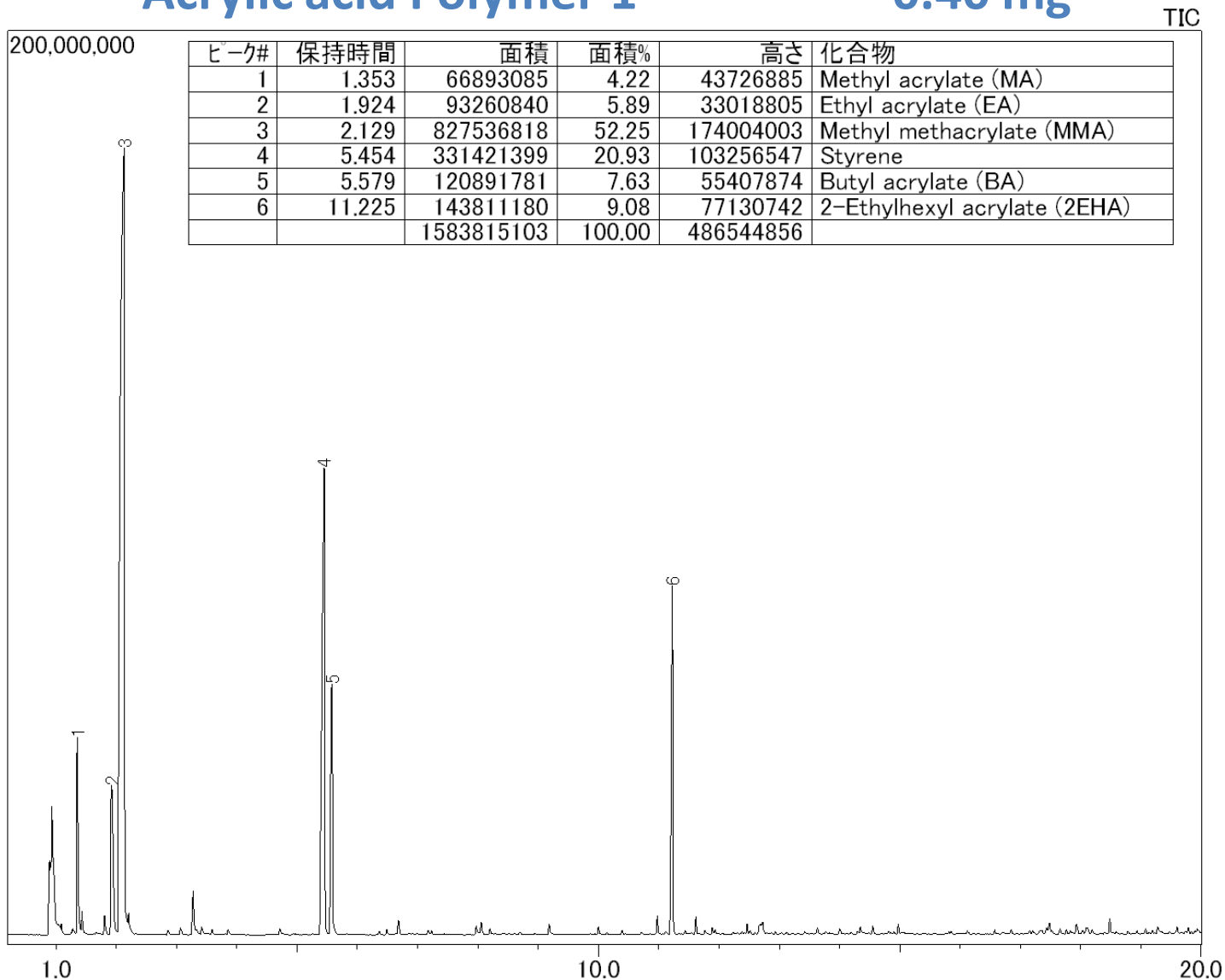
I.	Acrylic acid Polymer 1	0.40 mg
II.	Acrylic acid Polymer 2	0.37 mg
III.	Tire	0.47 mg
IV.	SBR (a)	0.30 mg
V.	SBR (b)	0.20 mg
VI.	SBR (c)	0.44 mg
VII.	SBR (St 23%)	0.43 mg
VIII.	SBR (St 43%)	0.47 mg
IX.	SBR (St 60%)	0.31 mg

# Material Characterization

## Unknown samples Analysis with JCI-22s

### Acrylic acid Polymer 1

0.40 mg



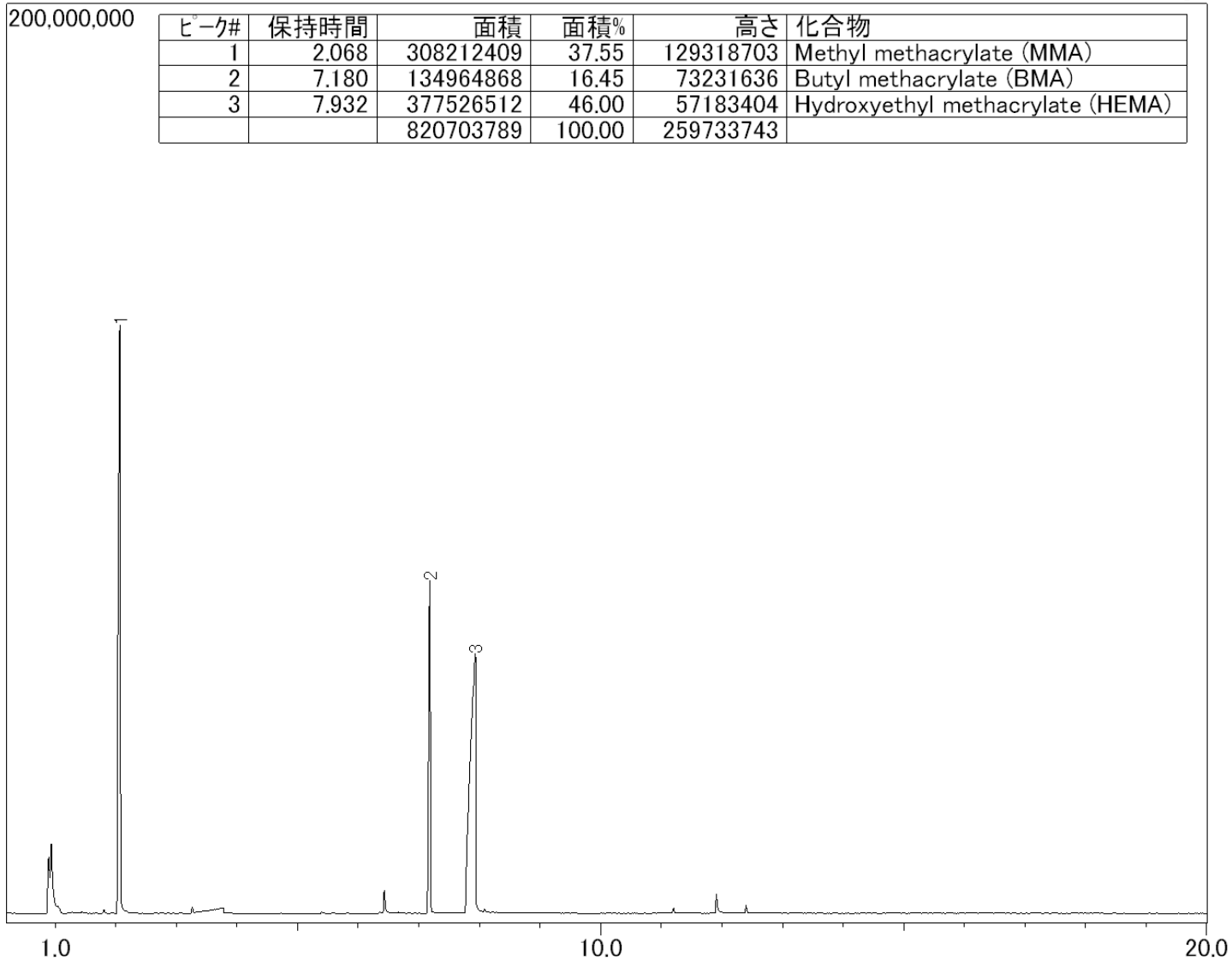
# Material Characterization

## Unknown samples Analysis with JCI-22s

### Acrylic acid Polymer 2 0.37 mg

TIC

ピーク#	保持時間	面積	面積%	高さ	化合物
1	2.068	308212409	37.55	129318703	Methyl methacrylate (MMA)
2	7.180	134964868	16.45	73231636	Butyl methacrylate (BMA)
3	7.932	377526512	46.00	57183404	Hydroxyethyl methacrylate (HEMA)
		820703789	100.00	259733743	



# Material Characterization

## Unknown samples Analysis with JCI-22s

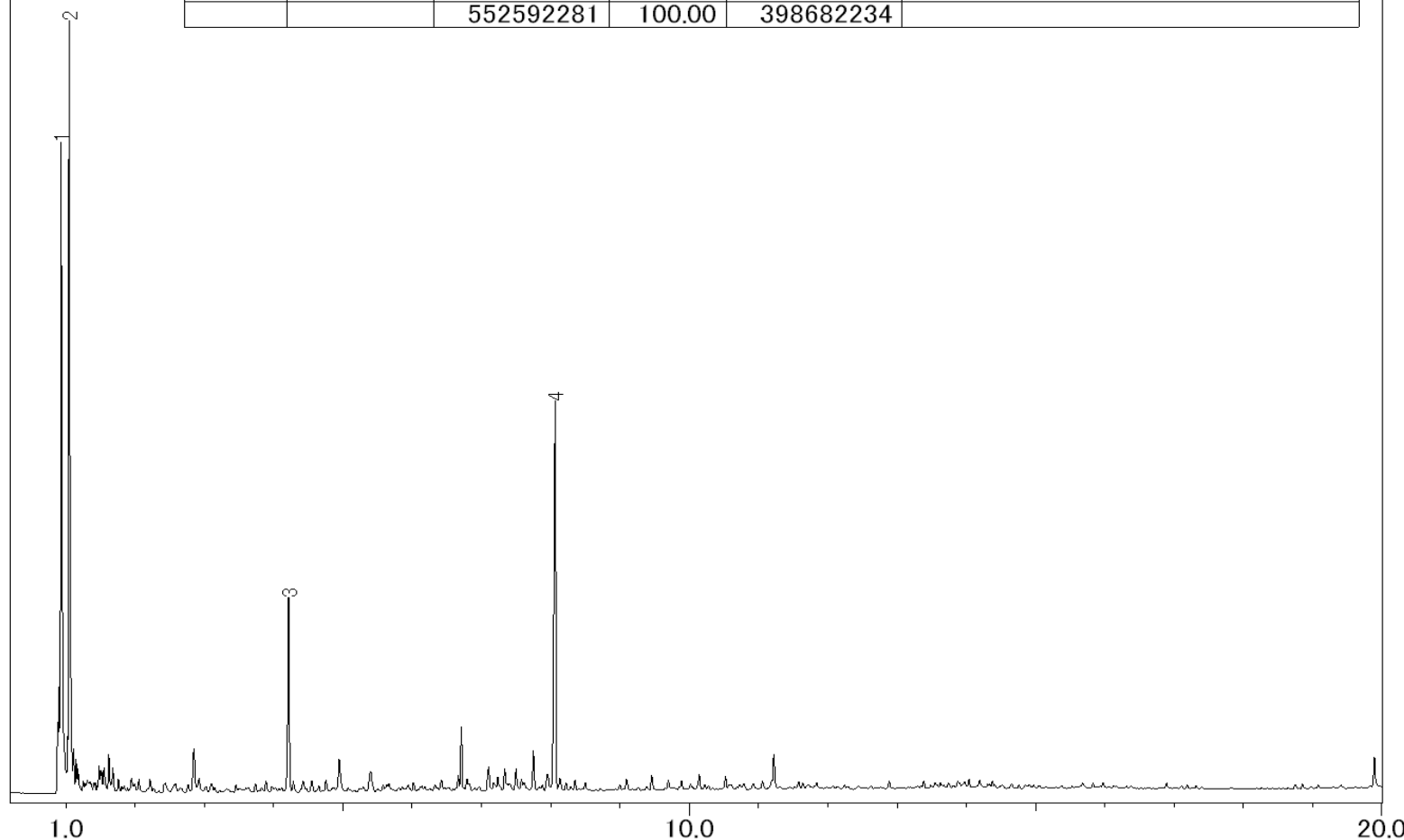
Tire

... 0.47 mg

TIC

200,000,000

ピーク#	保持時間	面積	面積%	高さ	化合物
1	0.935	145758216	26.38	125143322	1,3-Butadiene
2	1.049	177513983	32.12	149758944	Isoprene
3	4.218	67886651	12.29	41219211	4-Vinylcyclohexene
4	8.065	161433431	29.21	82560757	Limonene
		552592281	100.00	398682234	



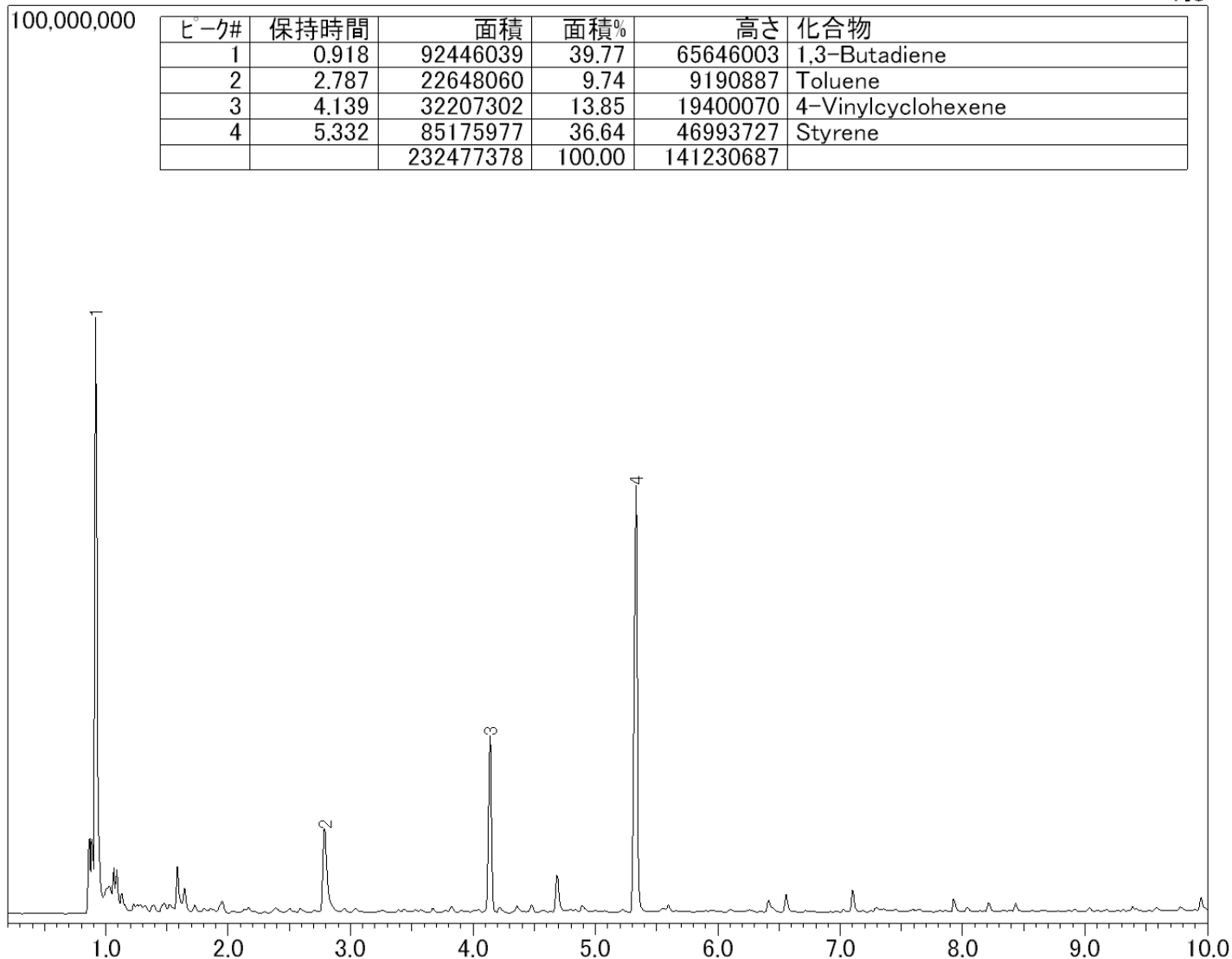
# Material Characterization

## Unknown samples Analysis with JCI-22s

SBR (a) ■■■ 0.30 mg

TIC

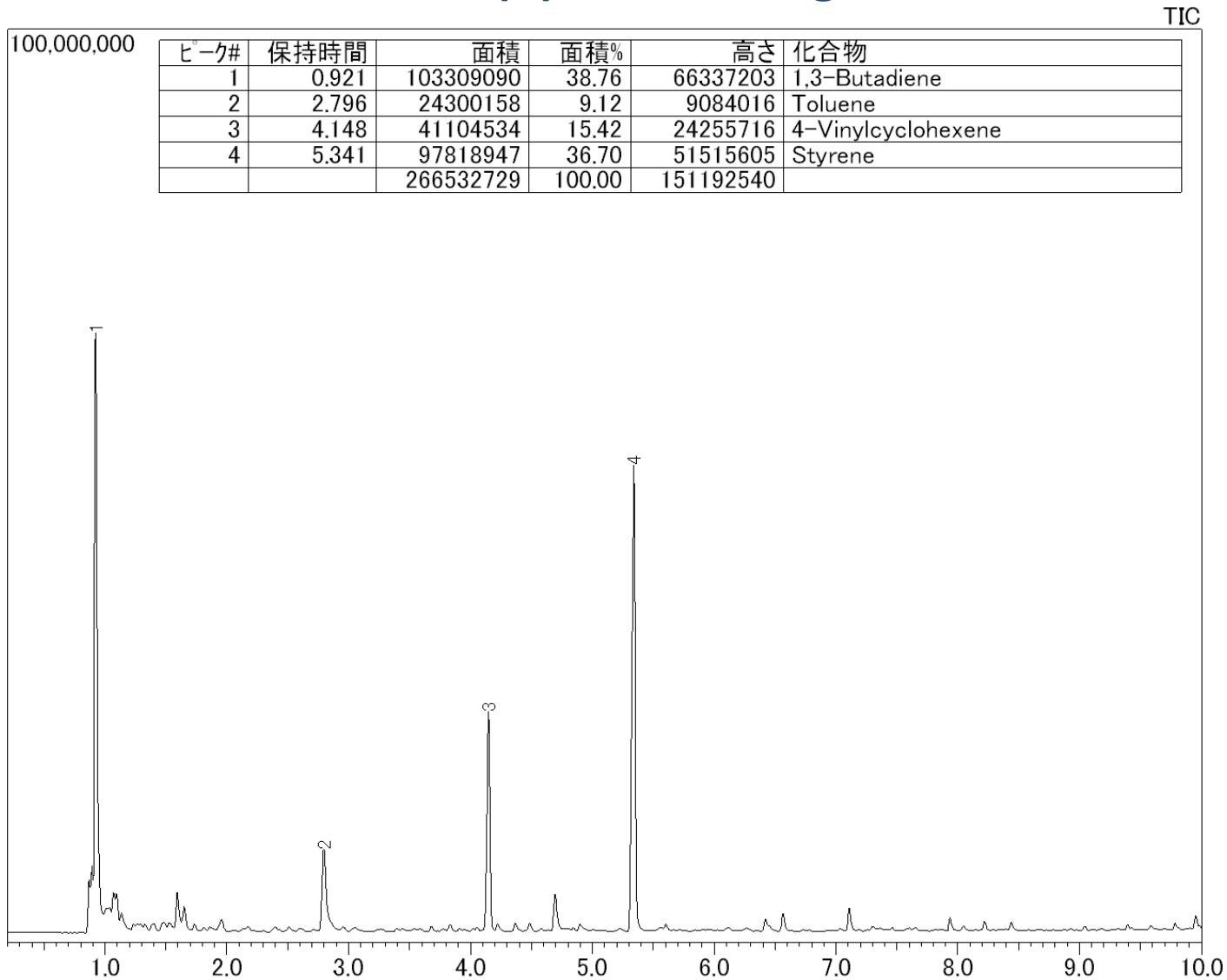
ピーク#	保持時間	面積	面積%	高さ	化合物
1	0.918	92446039	39.77	65646003	1,3-Butadiene
2	2.787	22648060	9.74	9190887	Toluene
3	4.139	32207302	13.85	19400070	4-Vinylcyclohexene
4	5.332	85175977	36.64	46993727	Styrene
		232477378	100.00	141230687	



# Material Characterization

## Unknown samples Analysis with JCI-22s

SBR (b) ··· 0.20 mg

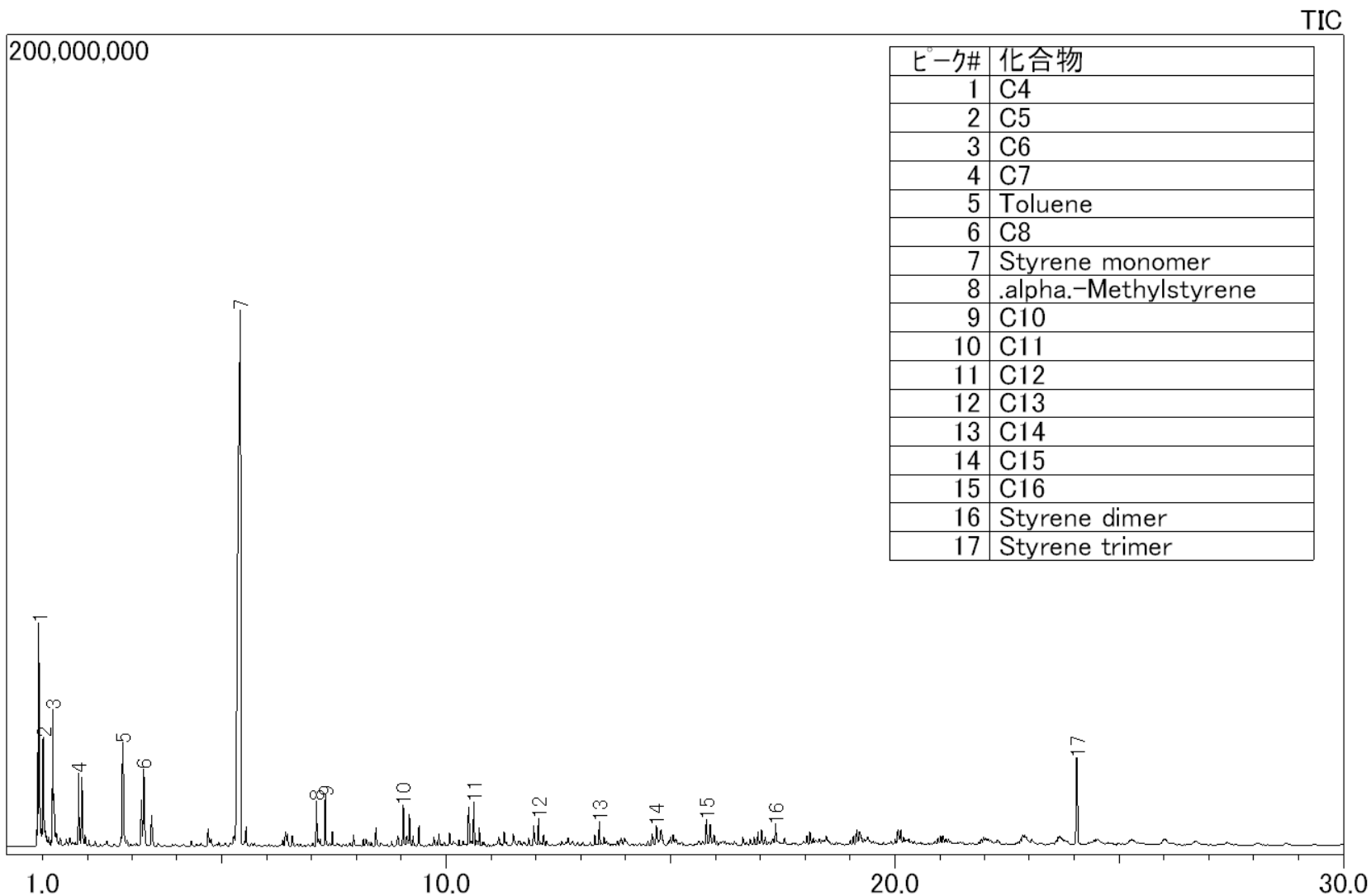




# Material Characterization

## Unknown samples Analysis with JCI-22s

### SBR (c) ··· 0.44 mg



# Material Characterization

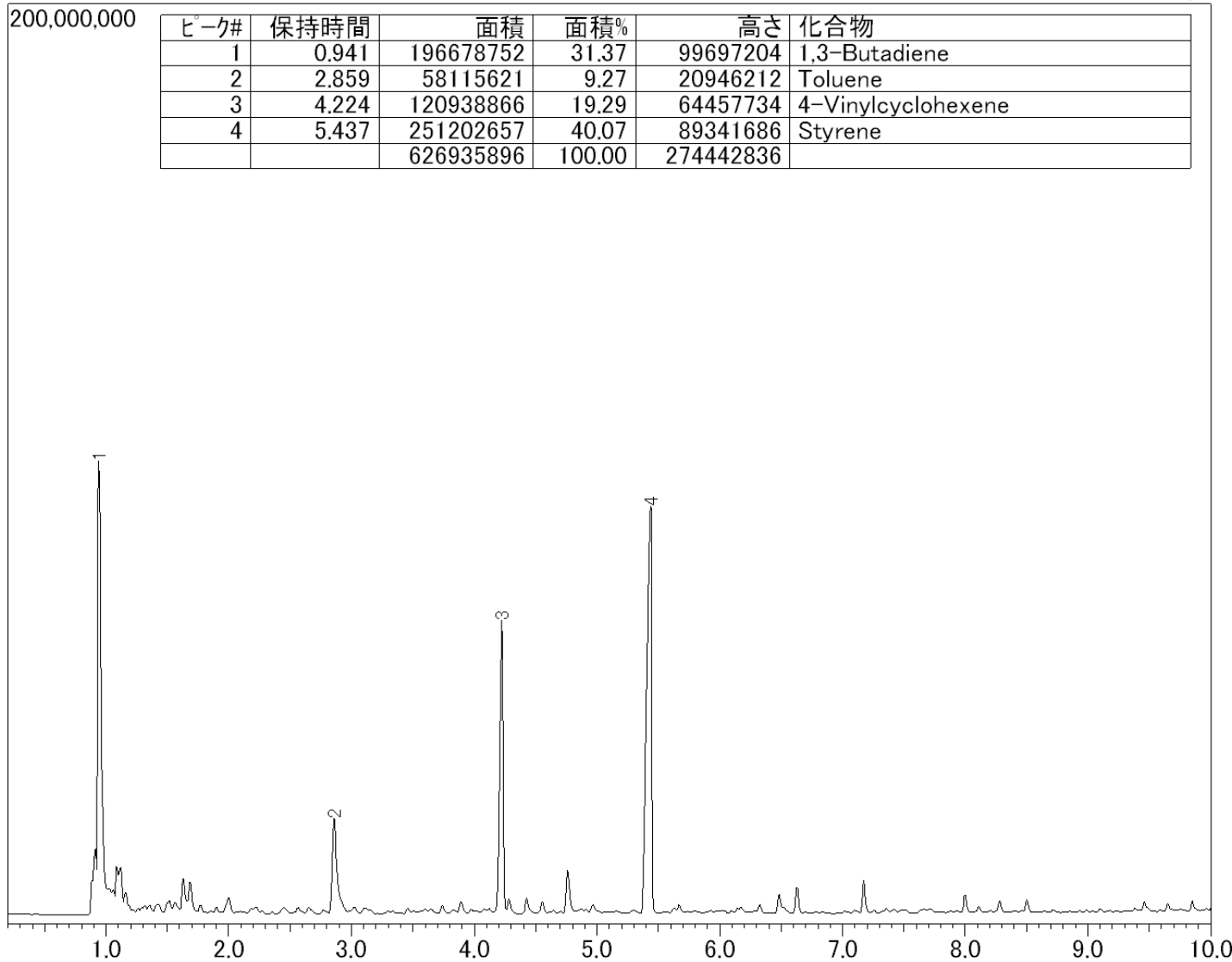
## Unknown samples Analysis with JCI-22s

SBR (St 23%)

0.43 mg

TIC

ピーク#	保持時間	面積	面積%	高さ	化合物
1	0.941	196678752	31.37	99697204	1,3-Butadiene
2	2.859	58115621	9.27	20946212	Toluene
3	4.224	120938866	19.29	64457734	4-Vinylcyclohexene
4	5.437	251202657	40.07	89341686	Styrene
		626935896	100.00	274442836	



# Material Characterization

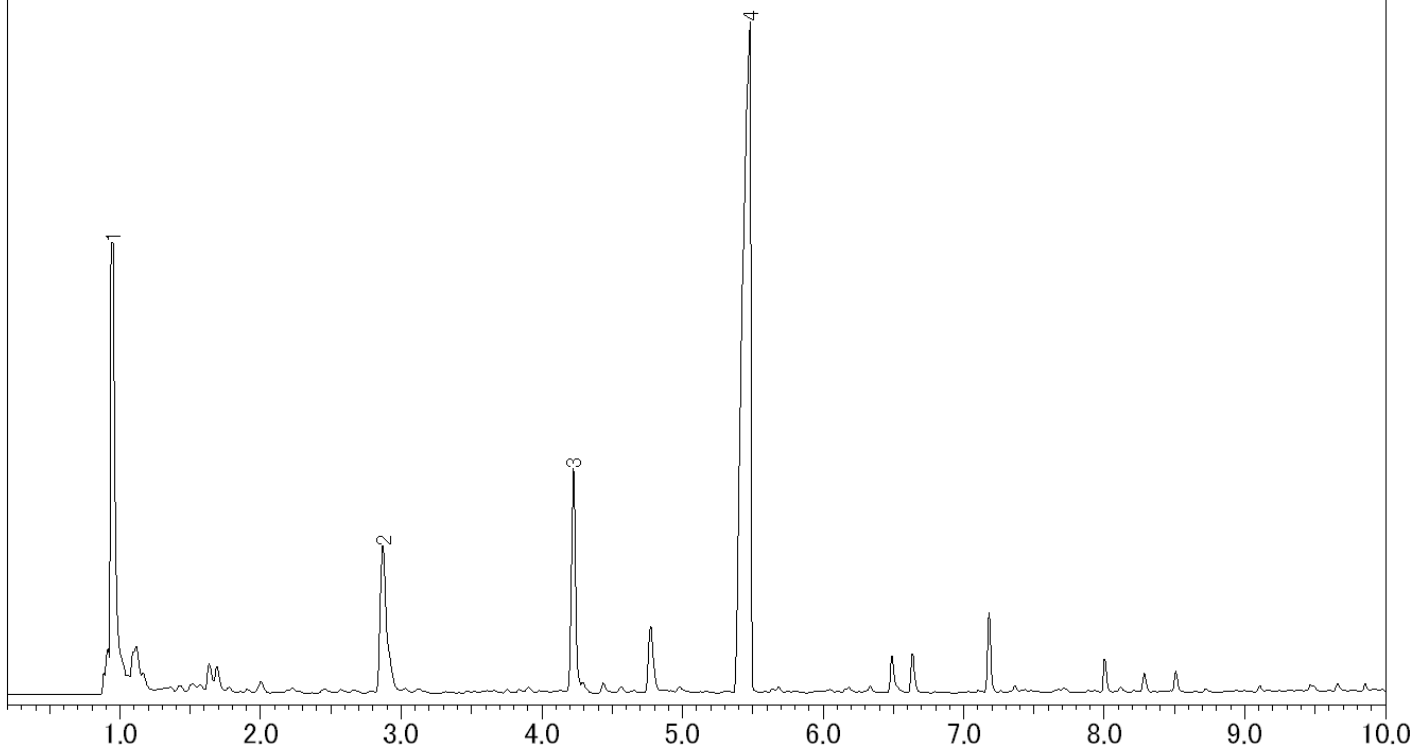
## Unknown samples Analysis with JCI-22s

SBR (St 43%)

... 0.47 mg

TIC

ピーク#	保持時間	面積	面積%	高さ	化合物
1	0.946	194324087	21.53	86605657	1,3-Butadiene
2	2.869	92908292	10.29	28271534	Toluene
3	4.226	87853179	9.73	43060279	4-Vinylcyclohexene
4	5.479	527560552	58.45	128574757	Styrene
		902646110	100.00	286512227	



# Material Characterization

## Unknown samples Analysis with JCI-22s

SBR (St 60%)

... 0.31 mg

TIC

ピーク#	保持時間	面積	面積%	高さ	化合物
1	0.948	105386128	11.22	82609412	1,3-Butadiene
2	2.871	64283274	6.84	29260043	Toluene
3	4.231	41652978	4.43	25005532	4-Vinylcyclohexene
4	5.513	728045892	77.50	140832207	Styrene
		939368272	100.00	277707194	

