

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051524\
 Data File : VY018271.D
 Acq On : 15 May 2024 14:39
 Operator : SY/MD
 Sample : P2482-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-01-229

Quant Time: May 16 03:06:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y050724S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 08 01:40:14 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

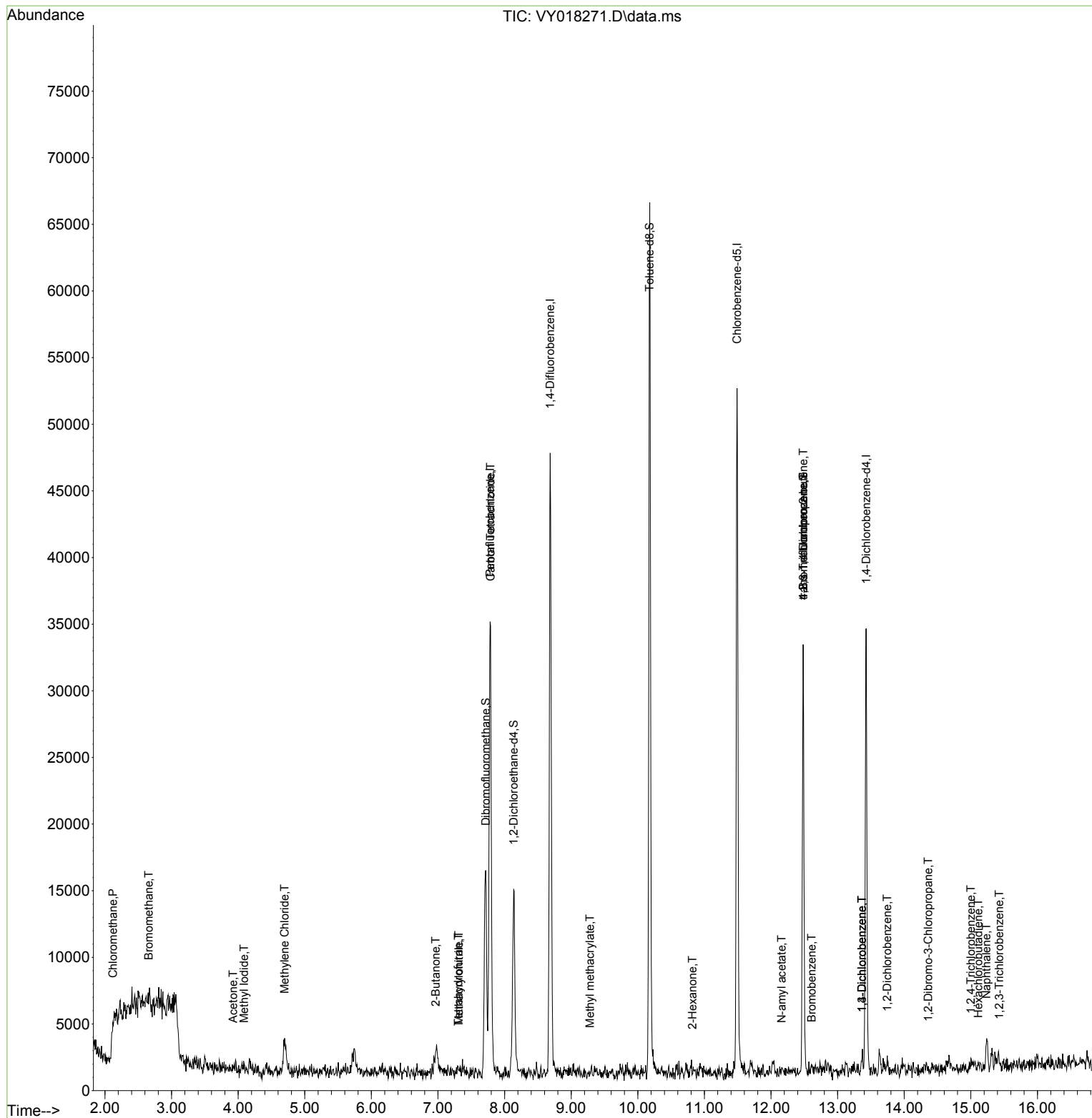
Internal Standards						
1) Pentafluorobenzene	7.783	168	26133	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	42347	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	30477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	8673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	9690	50.402	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.800%	
35) Dibromofluoromethane	7.716	113	11301	50.779	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.560%	
50) Toluene-d8	10.179	98	45054	51.373	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.740%	
62) 4-Bromofluorobenzene	12.483	95	10071	35.559	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 71.120%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	463	1.669	ug/l #	46
5) Bromomethane	2.656	94	488	2.089	ug/l #	59
10) Methyl Iodide	4.088	142	404	1.378	ug/l #	75
11) Tert butyl alcohol	4.936	59	80	Below Cal	#	1
13) Acrolein	3.723	56	82	Below Cal	#	81
16) Acetone	3.924	43	800	20.852	ug/l #	36
20) Methylene Chloride	4.698	84	1924	7.095	ug/l #	95
25) 2-Butanone	6.966	43	260	4.240	ug/l #	41
29) Tetrahydrofuran	7.307	42	390	9.634	ug/l #	38
31) Cyclohexane	7.777	56	746	Below Cal	#	42
38) Carbon Tetrachloride	7.789	117	2561	7.346	ug/l #	19
41) Methacrylonitrile	7.313	41	140	1.805	ug/l #	37
48) Methyl methacrylate	9.283	41	311	2.465	ug/l #	13
59) 2-Hexanone	10.819	43	119	1.230	ug/l	85
74) N-amyl acetate	12.160	43	297	2.200	ug/l #	69
76) 1,2,3-Trichloropropane	12.483	75	5374	77.411	ug/l #	100
77) Bromobenzene	12.611	156	214	1.433	ug/l #	36
81) trans-1,4-Dichloro-2-b...	12.483	75	5374	149.145	ug/l #	17
87) 1,3-Dichlorobenzene	13.367	146	374	1.296	ug/l	79
88) 1,4-Dichlorobenzene	13.367	146	374	1.330	ug/l	77
91) 1,2-Dichlorobenzene	13.745	146	326	1.315	ug/l	88
92) 1,2-Dibromo-3-Chloropr...	14.361	75	23	1.628	ug/l #	35
93) 1,2,4-Trichlorobenzene	15.001	180	316	2.267	ug/l	76
94) Hexachlorobutadiene	15.111	225	122	1.586	ug/l #	19
95) Naphthalene	15.233	128	1973	7.724	ug/l	97
96) 1,2,3-Trichlorobenzene	15.428	180	157	1.372	ug/l #	26

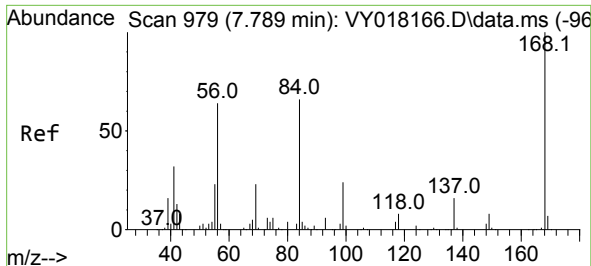
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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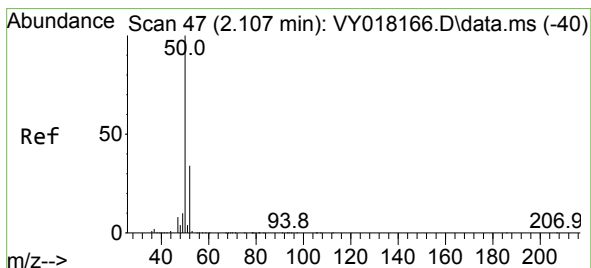
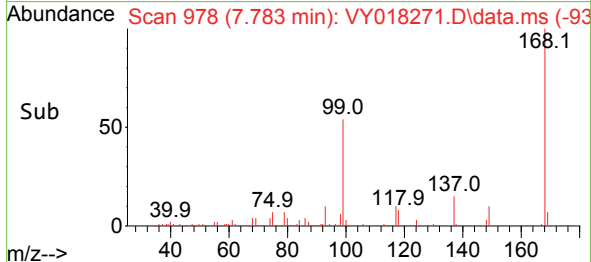
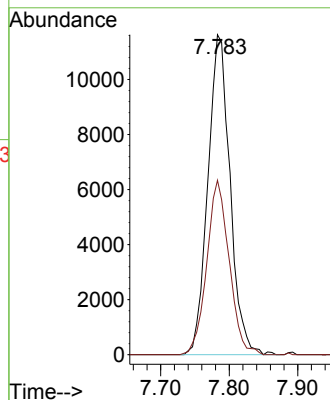
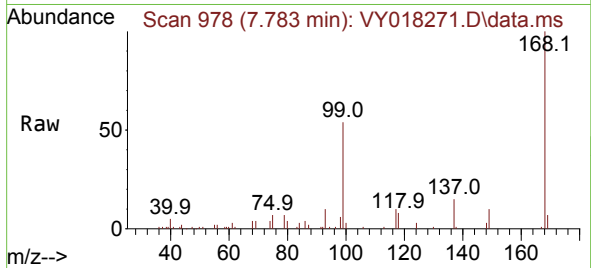




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

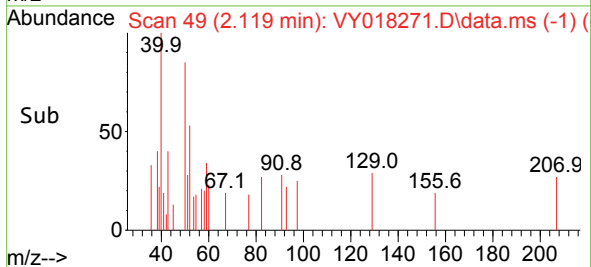
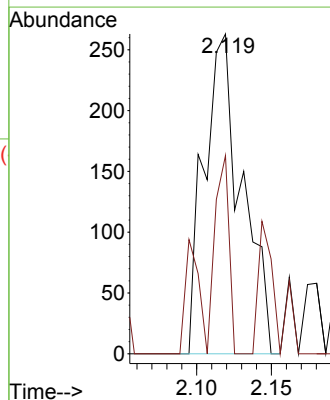
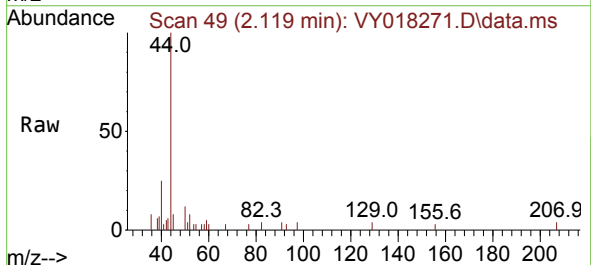
Instrument :
MSVOA_Y
ClientSampleId :
B-01-229

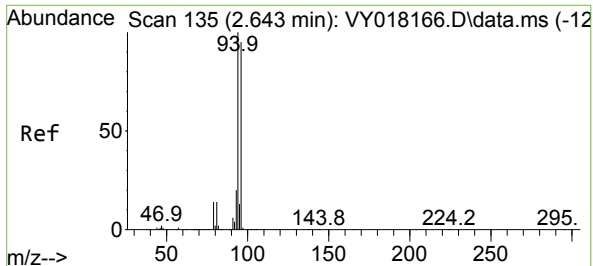
Tgt Ion:168 Resp: 26133
Ion Ratio Lower Upper
168 100
99 54.5 39.1 58.7



#3
Chloromethane
Concen: 1.669 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.012 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion: 50 Resp: 463
Ion Ratio Lower Upper
50 100
52 62.0 25.6 38.4#

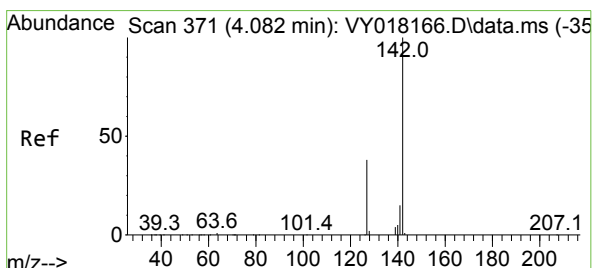
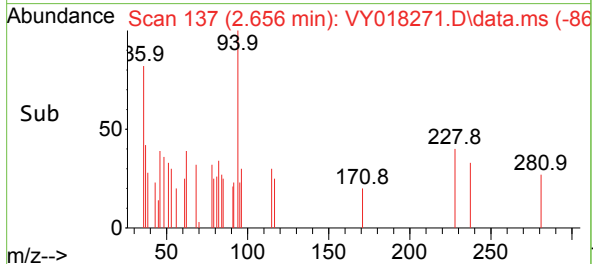
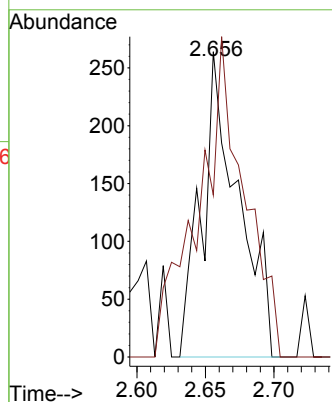
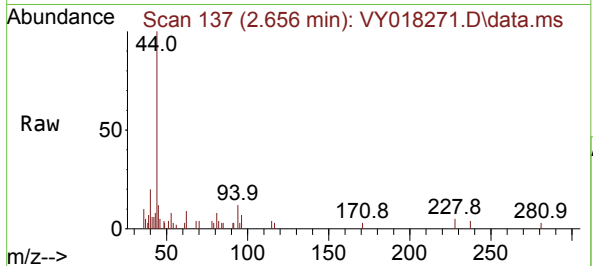




#5
Bromomethane
Concen: 2.089 ug/l
RT: 2.656 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

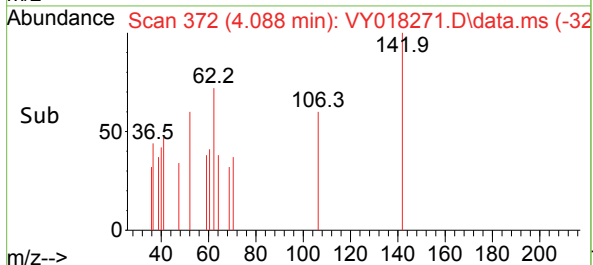
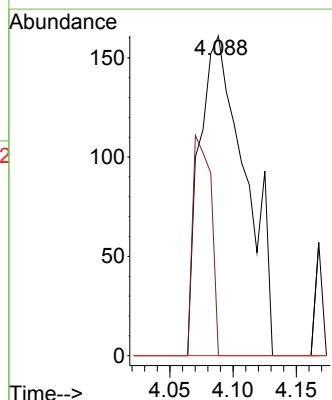
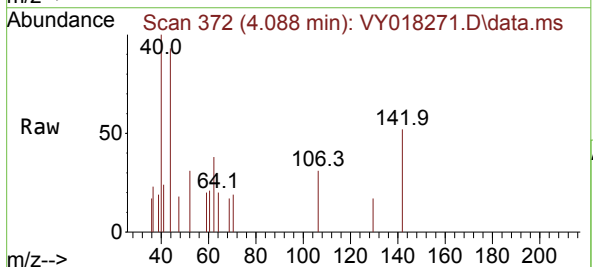
Instrument :
MSVOA_Y
ClientSampleId :
B-01-229

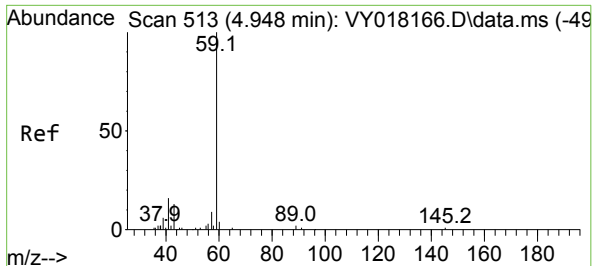
Tgt Ion: 94 Resp: 488
Ion Ratio Lower Upper
94 100
96 53.0 74.1 111.1#



#10
Methyl Iodide
Concen: 1.378 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion:142 Resp: 404
Ion Ratio Lower Upper
142 100
127 27.7 32.8 49.2#
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.936 min Scan# 513

Delta R.T. -0.012 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

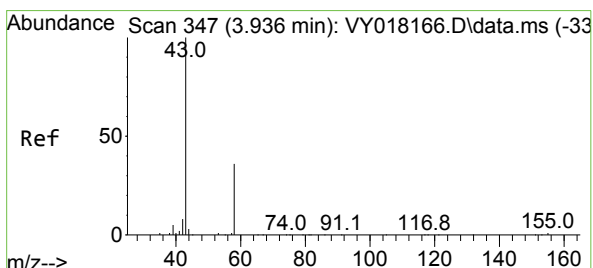
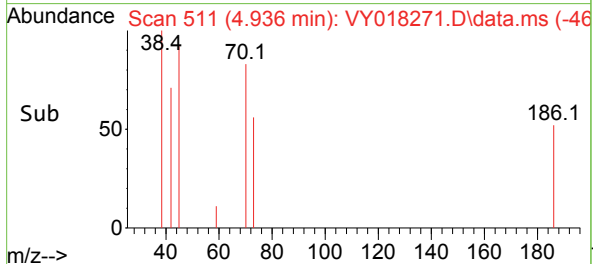
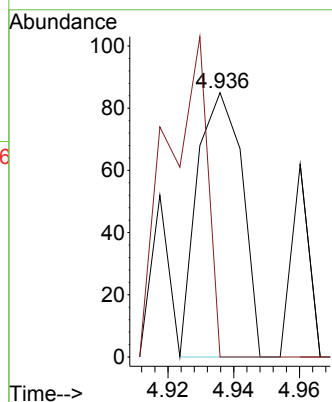
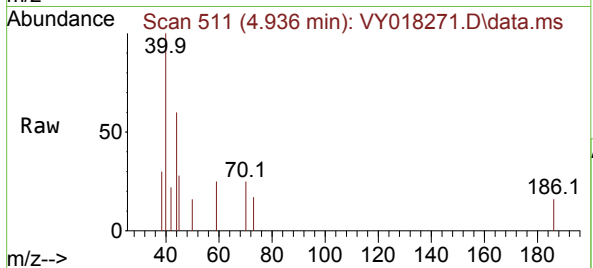
B-01-229

Tgt Ion: 59 Resp: 80

Ion Ratio Lower Upper

59 100

57 108.7 3.0 4.6#



#16

Acetone

Concen: 20.852 ug/l

RT: 3.924 min Scan# 345

Delta R.T. -0.012 min

Lab File: VY018271.D

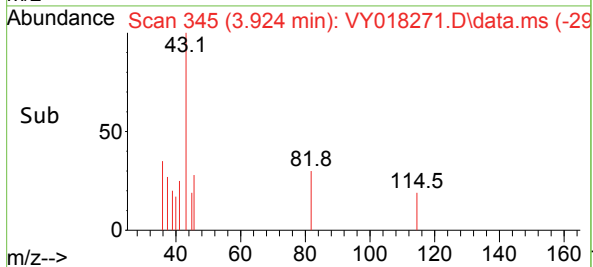
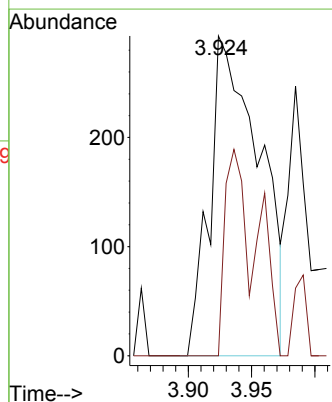
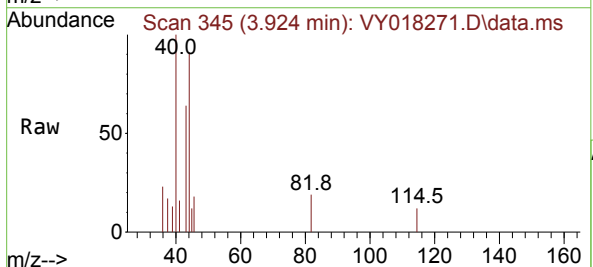
Acq: 15 May 2024 14:39

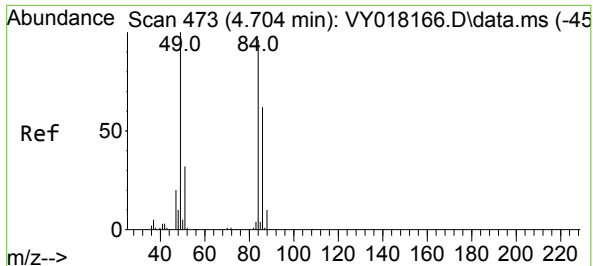
Tgt Ion: 43 Resp: 800

Ion Ratio Lower Upper

43 100

58 0.0 31.7 47.5#

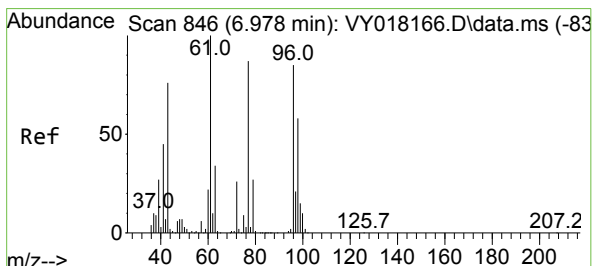
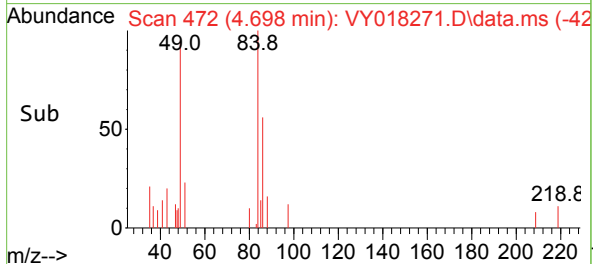
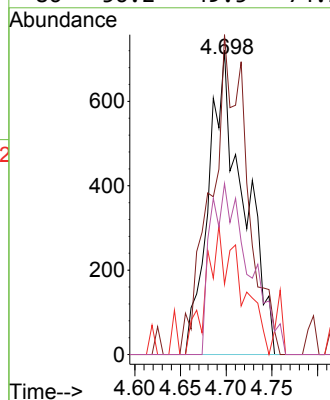
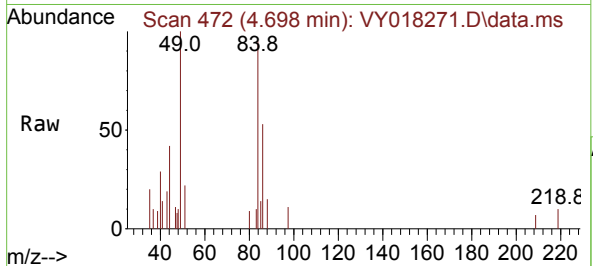




#20
Methylene Chloride
Concen: 7.095 ug/l
RT: 4.698 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

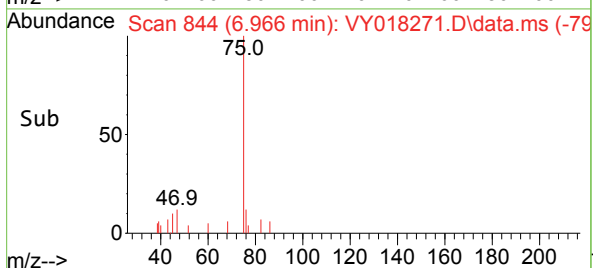
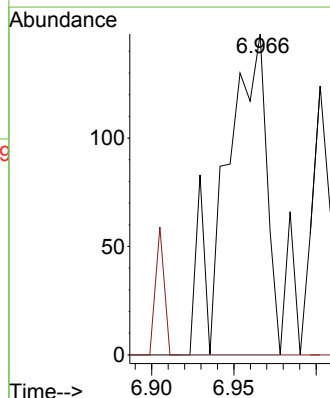
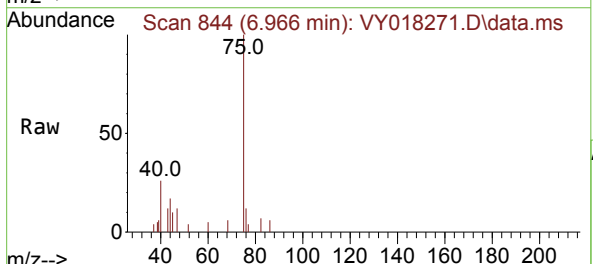
Instrument :
MSVOA_Y
ClientSampleId :
B-01-229

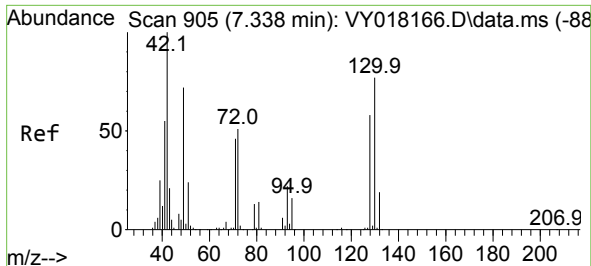
Tgt Ion: 84	Resp:	1924	
Ion	Ratio	Lower	Upper
84	100		
49	105.1	84.4	126.6
51	23.2	26.0	39.0#
86	56.2	49.5	74.3



#25
2-Butanone
Concen: 4.240 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion: 43	Resp:	260	
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.3	40.9#





#29

Tetrahydrofuran

Concen: 9.634 ug/l

RT: 7.307 min Scan# 905

Delta R.T. -0.030 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

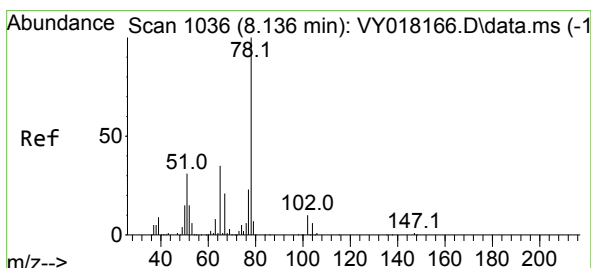
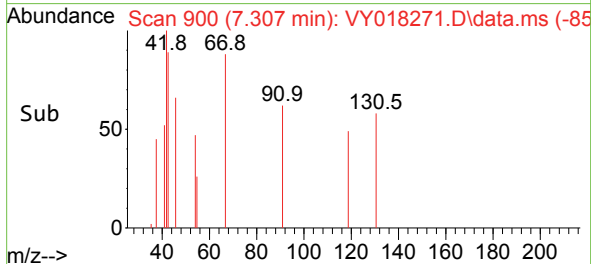
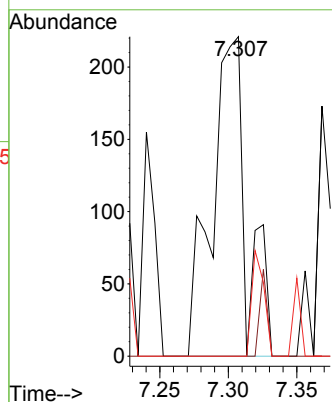
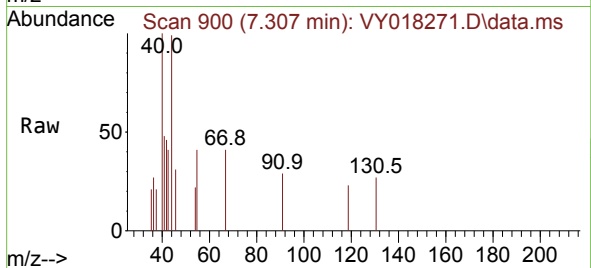
Tgt Ion: 42 Resp: 390

Ion Ratio Lower Upper

42 100

72 5.6 43.0 64.4#

71 11.5 40.8 61.2#



#33

1,2-Dichloroethane-d4

Concen: 50.402 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY018271.D

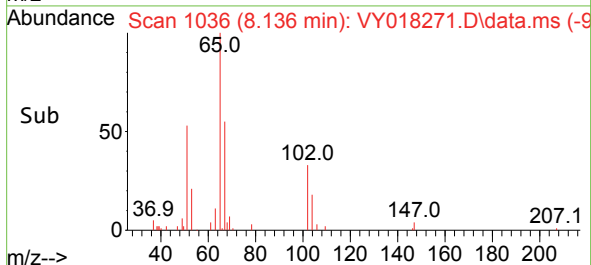
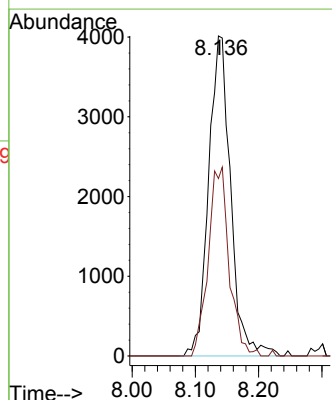
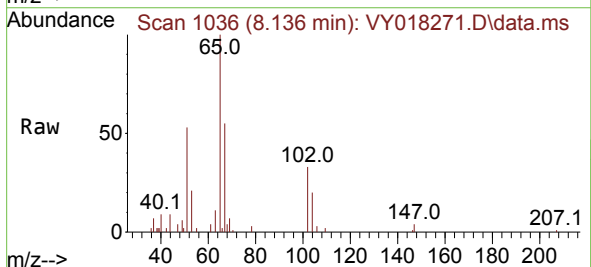
Acq: 15 May 2024 14:39

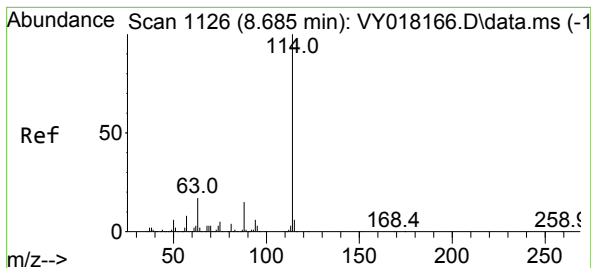
Tgt Ion: 65 Resp: 9690

Ion Ratio Lower Upper

65 100

67 56.4 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY018271.D

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B-01-229

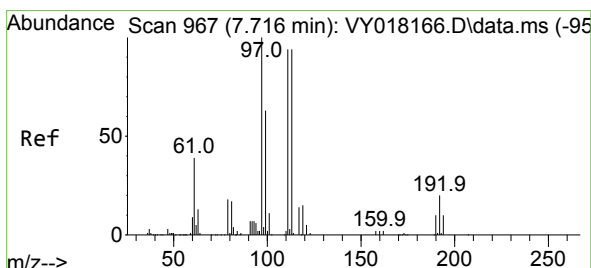
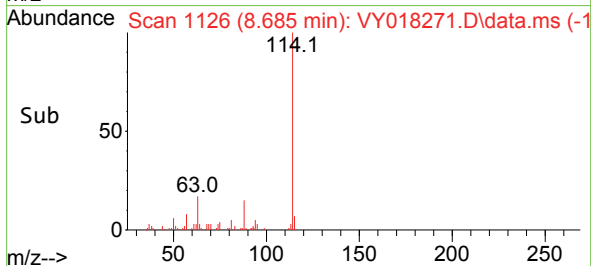
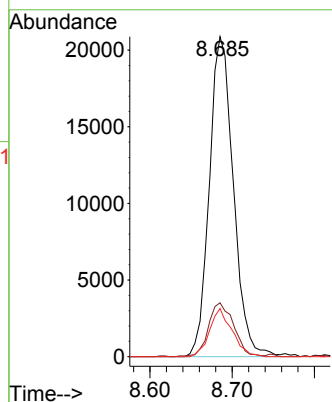
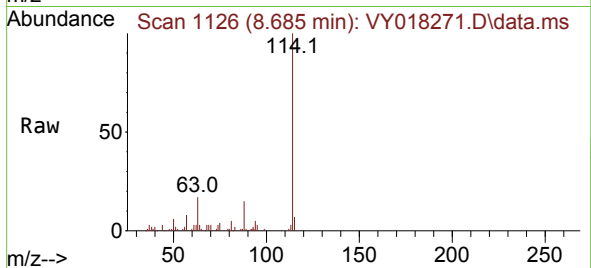
Tgt Ion:114 Resp: 42347

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.0

88 15.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 50.779 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

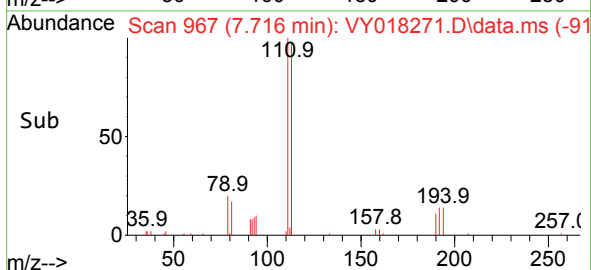
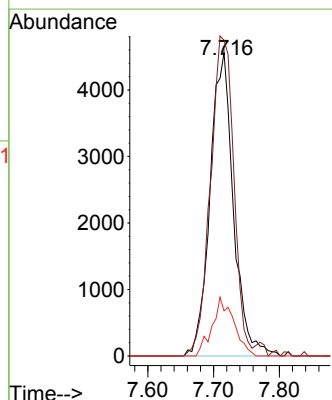
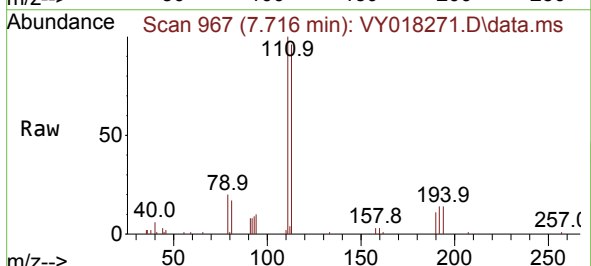
Tgt Ion:113 Resp: 11301

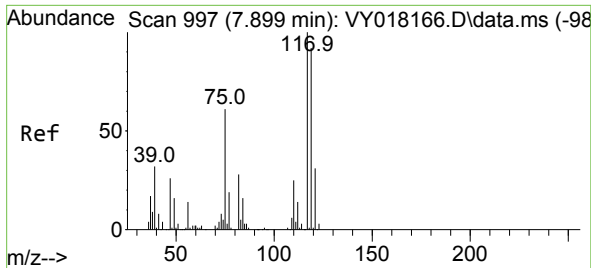
Ion Ratio Lower Upper

113 100

111 105.0 82.2 123.4

192 18.0 15.9 23.9

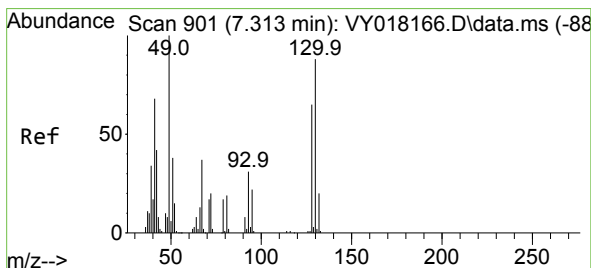
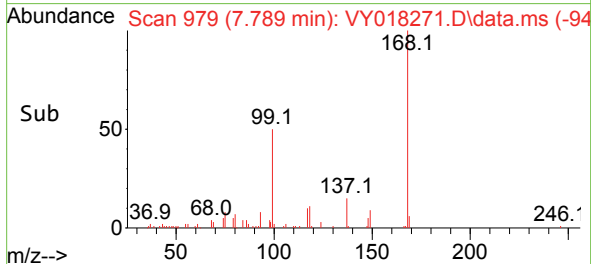
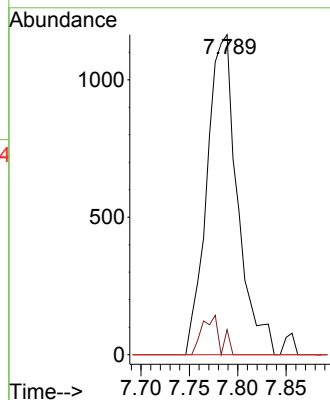
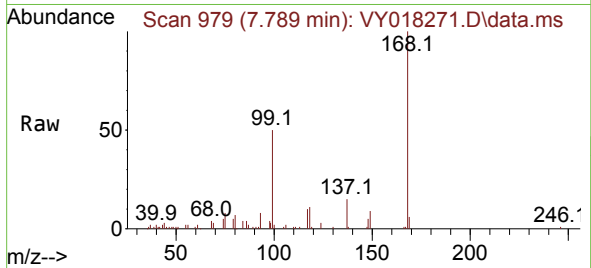




#38
Carbon Tetrachloride
Concen: 7.346 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

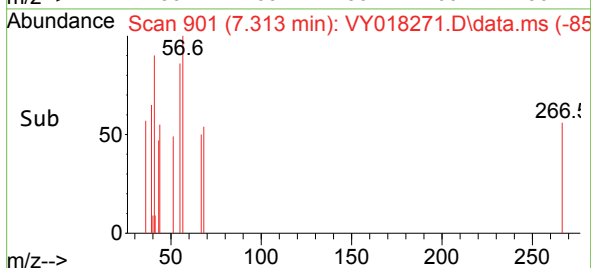
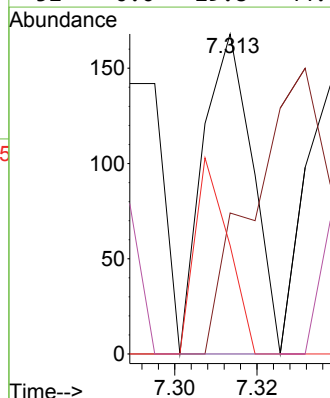
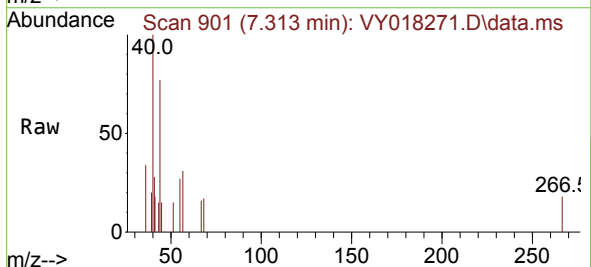
Instrument :
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B-01-229

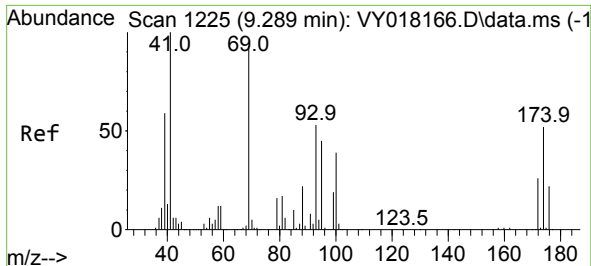
Tgt Ion:117 Resp: 2561
Ion Ratio Lower Upper
117 100
119 7.8 75.8 113.6#
121 0.0 24.0 36.0#



#41
Methacrylonitrile
Concen: 1.805 ug/l
RT: 7.313 min Scan# 901
Delta R.T. 0.000 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion: 41 Resp: 140
Ion Ratio Lower Upper
41 100
39 0.0 48.0 72.0#
67 42.1 75.1 112.7#
52 0.0 29.8 44.6#

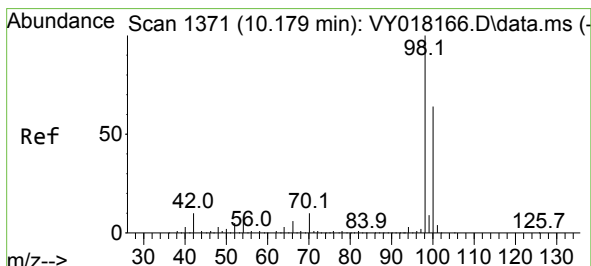
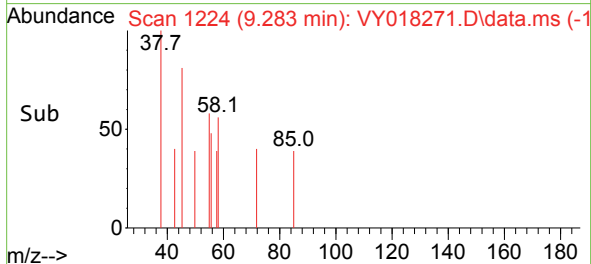
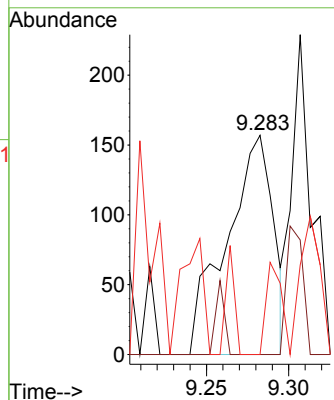
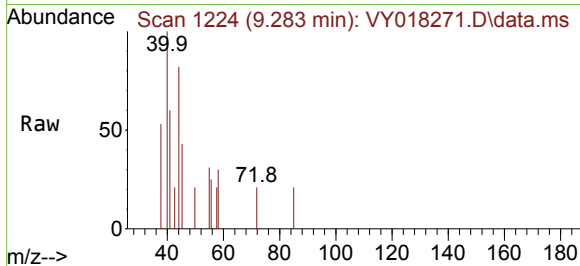




#48
Methyl methacrylate
Concen: 2.465 ug/l
RT: 9.283 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

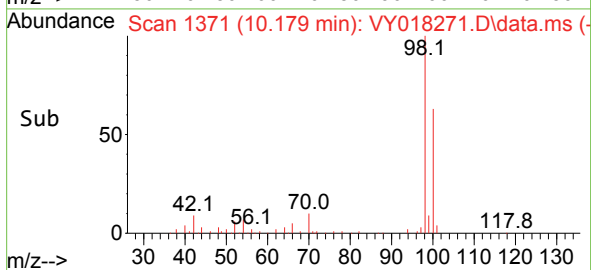
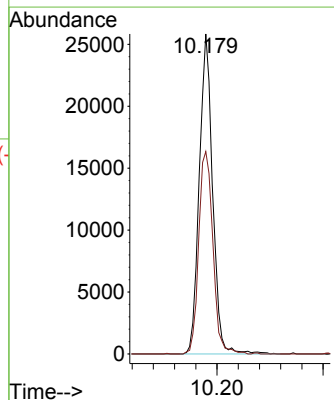
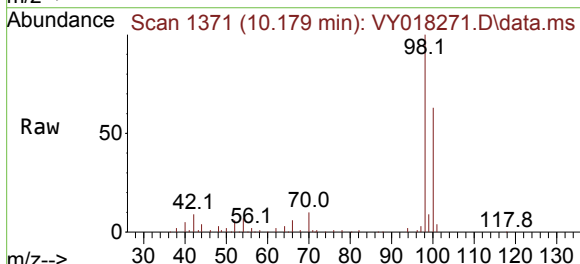
Instrument :
MSVOA_Y
ClientSampleId :
B-01-229

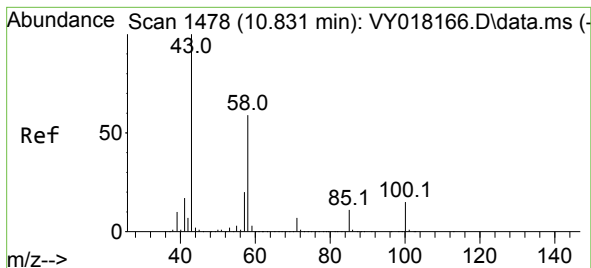
Tgt Ion: 41 Resp: 311
Ion Ratio Lower Upper
41 100
69 0.0 84.1 126.1#
39 13.8 43.6 65.4#



#50
Toluene-d8
Concen: 51.373 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion: 98 Resp: 45054
Ion Ratio Lower Upper
98 100
100 67.1 52.0 78.0

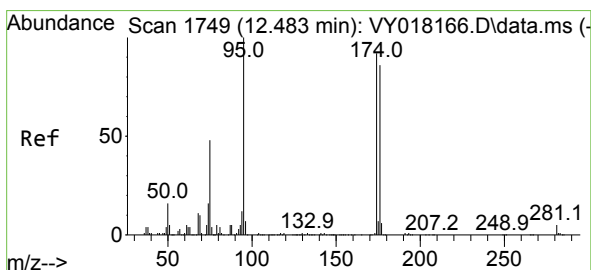
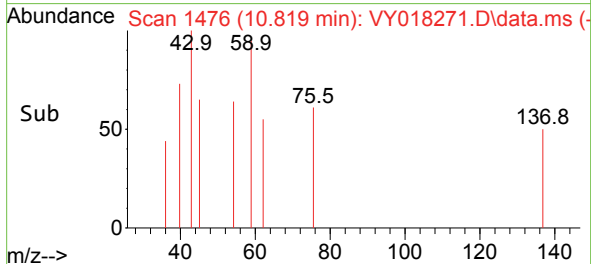
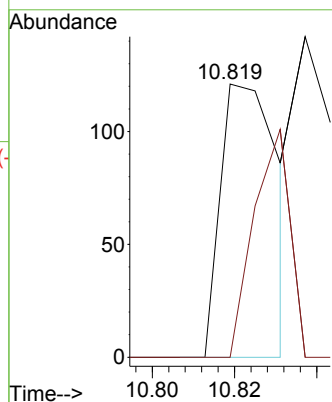
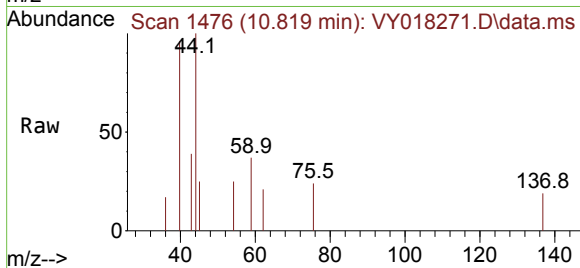




#59
2-Hexanone
Concen: 1.230 ug/l
RT: 10.819 min Scan# 1476
Delta R.T. -0.012 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

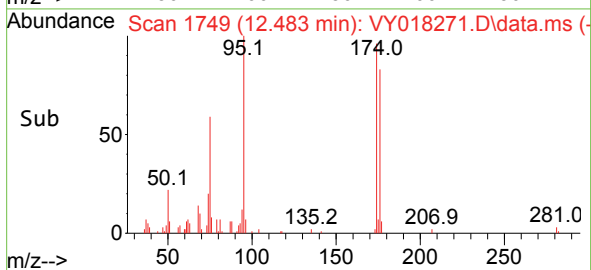
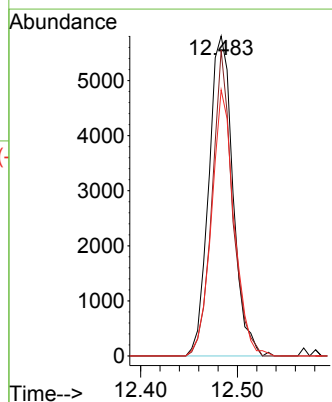
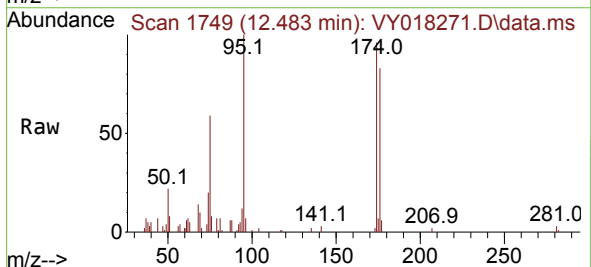
Instrument :
MSVOA_Y
ClientSampleId :
B-01-229

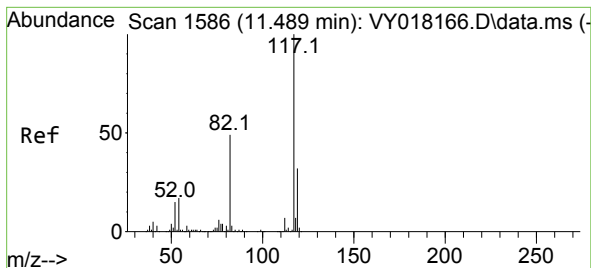
Tgt Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
58 51.3 31.4 94.0



#62
4-Bromofluorobenzene
Concen: 35.559 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY018271.D
Acq: 15 May 2024 14:39

Tgt Ion: 95 Resp: 10071
Ion Ratio Lower Upper
95 100
174 80.9 0.0 175.6
176 77.9 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

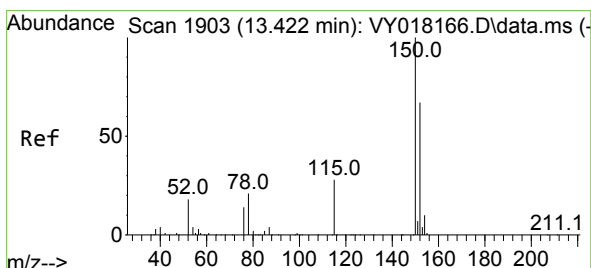
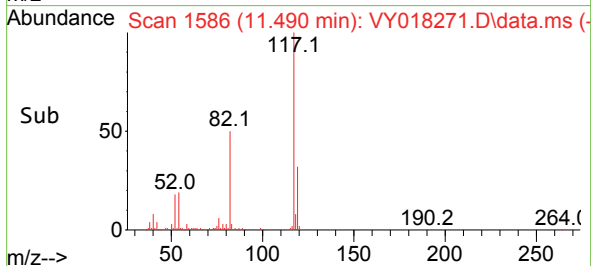
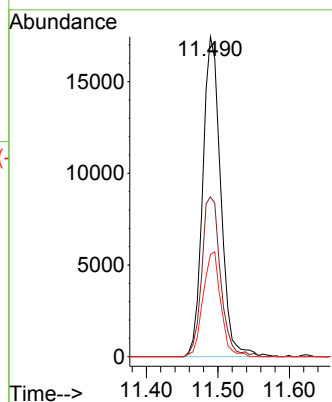
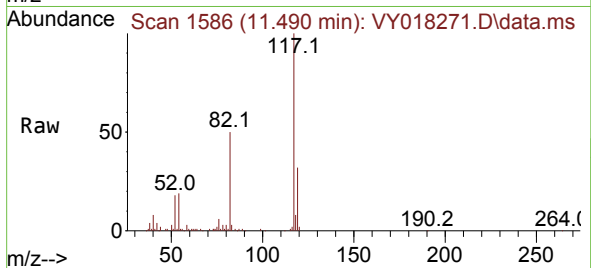
Tgt Ion:117 Resp: 30477

Ion Ratio Lower Upper

117 100

82 49.9 42.4 63.6

119 31.9 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

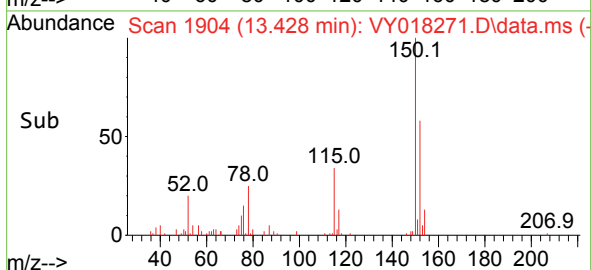
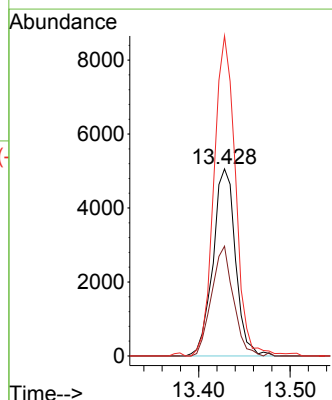
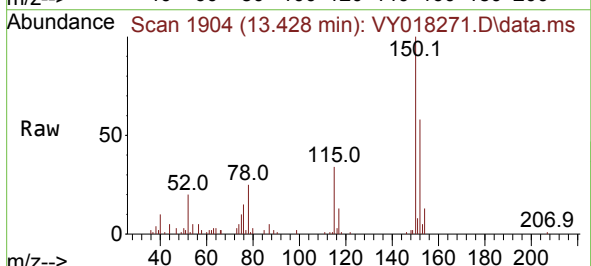
Tgt Ion:152 Resp: 8673

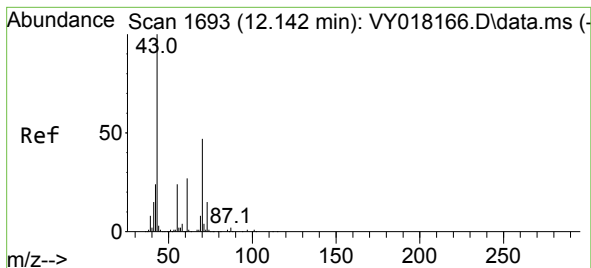
Ion Ratio Lower Upper

152 100

115 56.5 28.2 84.7

150 163.6 0.0 345.6





#74

N-amy1 acetate

Concen: 2.200 ug/l

RT: 12.160 min Scan# 1

Delta R.T. 0.018 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

Tgt Ion: 43 Resp: 297

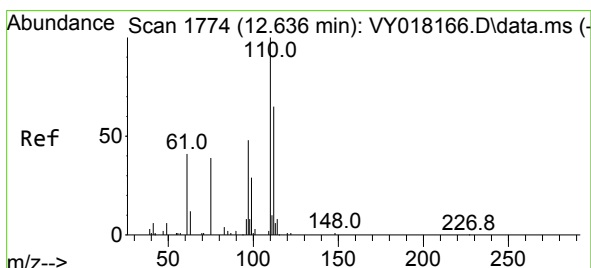
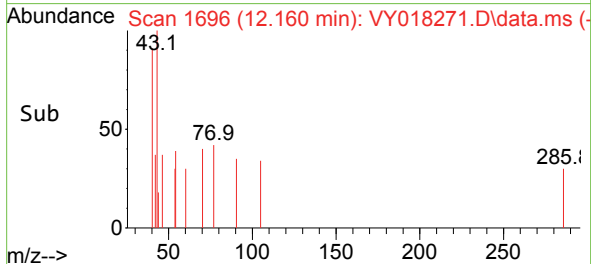
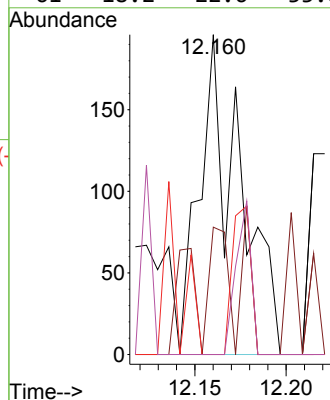
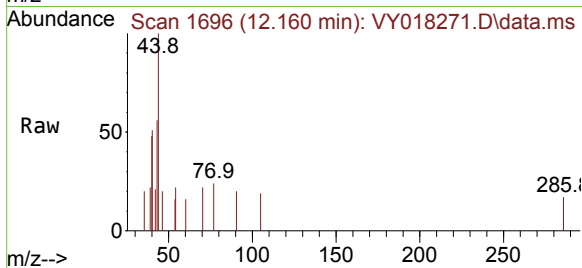
Ion Ratio Lower Upper

43 100

70 18.9 41.4 62.2#

55 21.5 23.3 34.9#

61 18.2 22.6 33.8#



#76

1,2,3-Trichloropropane

Concen: 77.411 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY018271.D

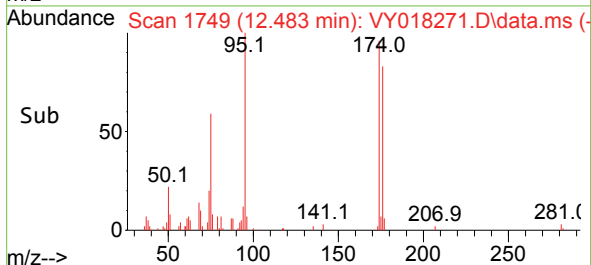
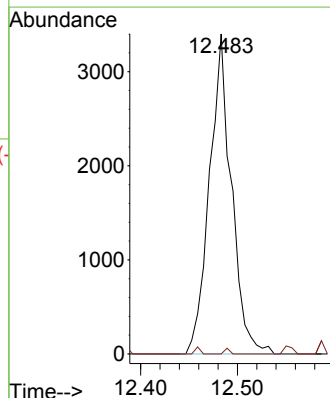
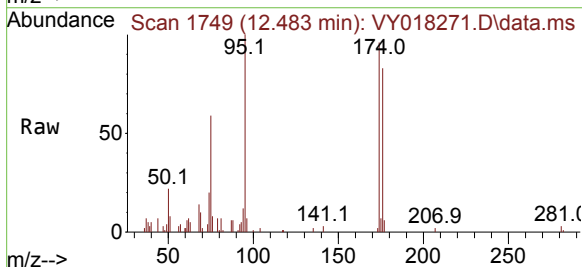
Acq: 15 May 2024 14:39

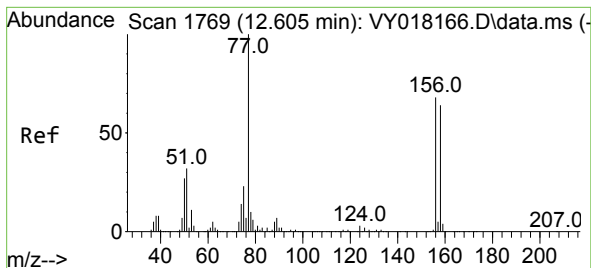
Tgt Ion: 75 Resp: 5374

Ion Ratio Lower Upper

75 100

77 0.4 0.0 0.0#





#77

Bromobenzene

Concen: 1.433 ug/l

RT: 12.611 min Scan# 1770

Delta R.T. 0.006 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

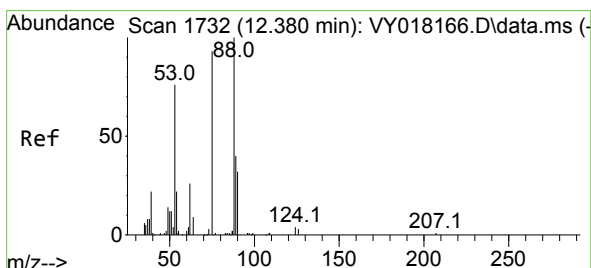
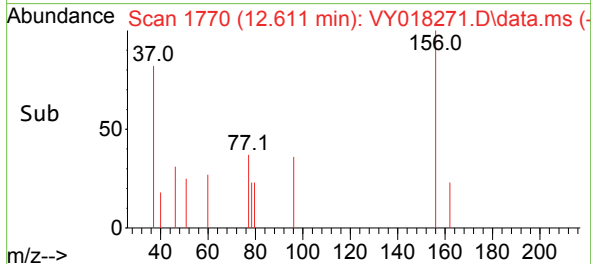
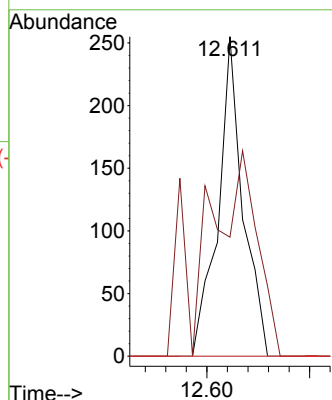
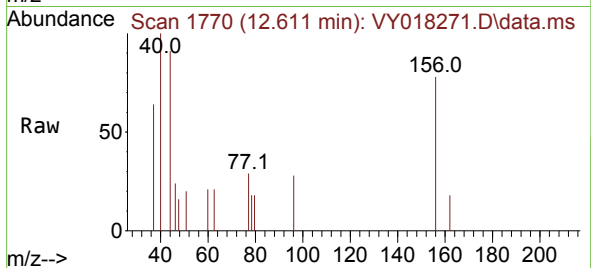
Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

Tgt Ion:	156	Resp:	214
Ion	Ratio	Lower	Upper
156	100		
77	112.1	87.1	261.3
158	0.0	48.6	145.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 149.145 ug/l

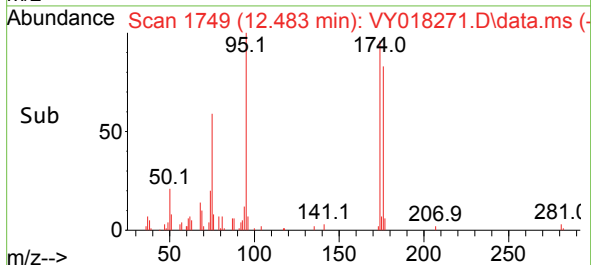
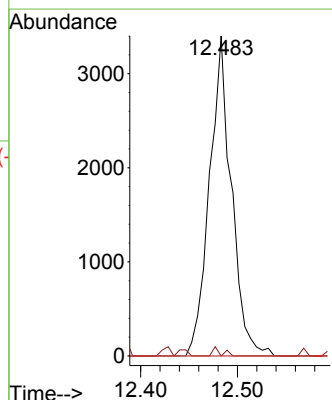
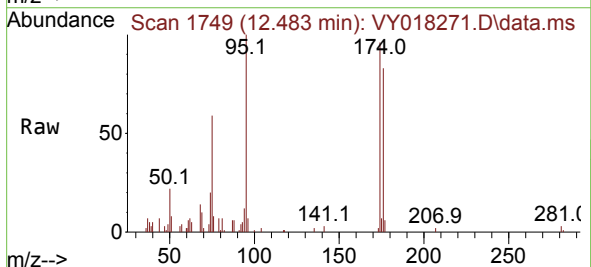
RT: 12.483 min Scan# 1749

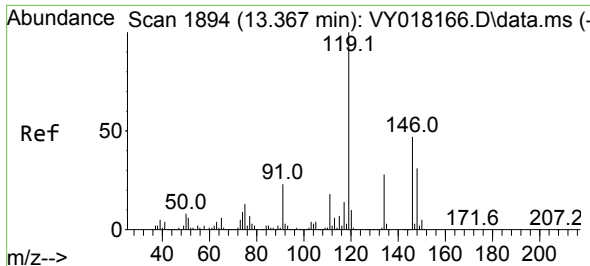
Delta R.T. 0.104 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Tgt Ion:	75	Resp:	5374
Ion	Ratio	Lower	Upper
75	100		
53	1.1	66.8	100.2#
89	0.0	35.8	53.6#

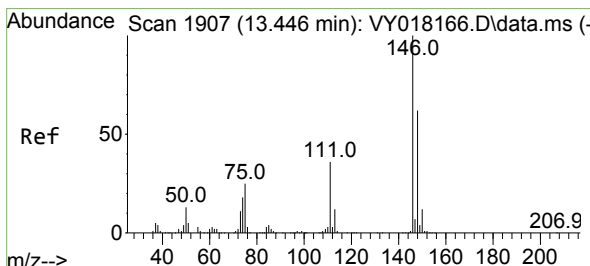
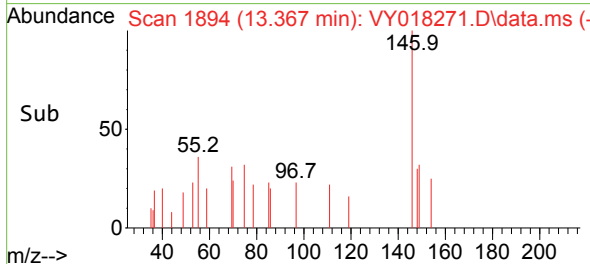
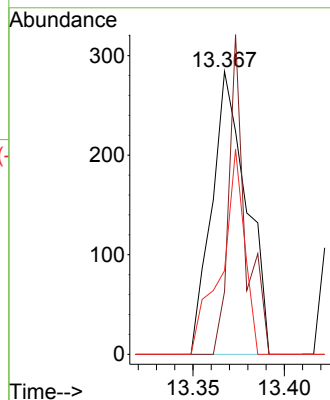
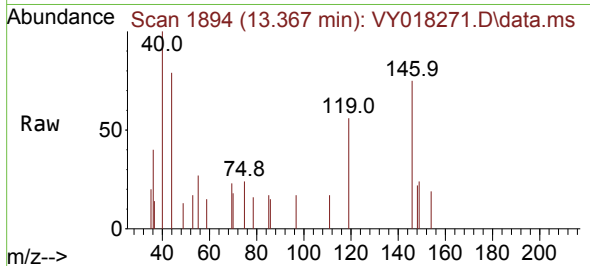




#87
 1,3-Dichlorobenzene
 Concen: 1.296 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. 0.000 min
 Lab File: VY018271.D
 Acq: 15 May 2024 14:39

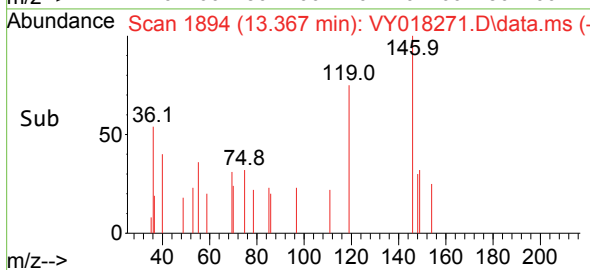
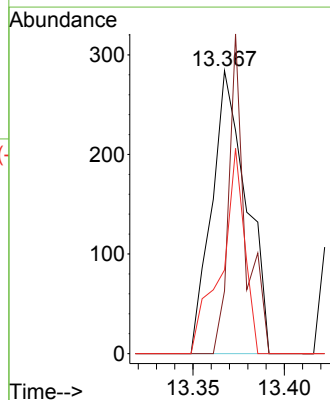
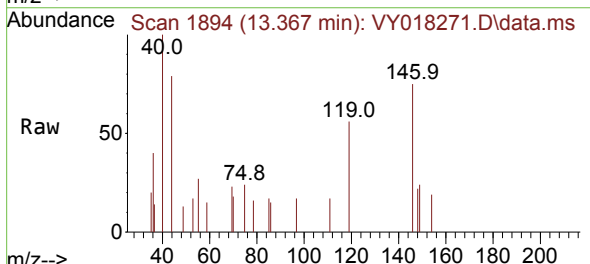
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-01-229

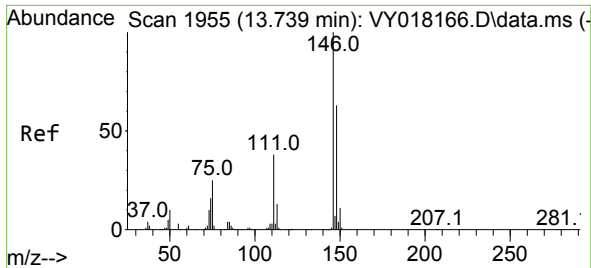
Tgt Ion:146	Resp:	374
Ion	Ratio	Lower Upper
146	100	
111	53.7	19.0 57.0
148	48.9	31.7 95.1



#88
 1,4-Dichlorobenzene
 Concen: 1.330 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. -0.079 min
 Lab File: VY018271.D
 Acq: 15 May 2024 14:39

Tgt Ion:146	Resp:	374
Ion	Ratio	Lower Upper
146	100	
111	53.7	18.4 55.4
148	48.9	32.4 97.2

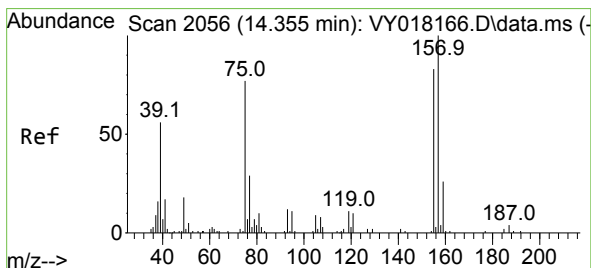
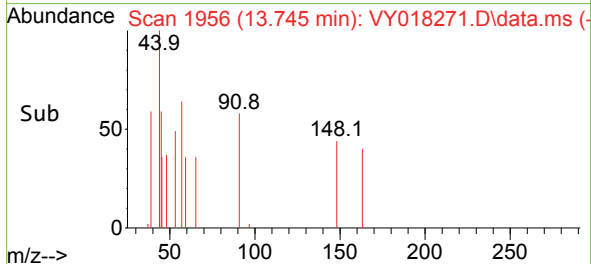
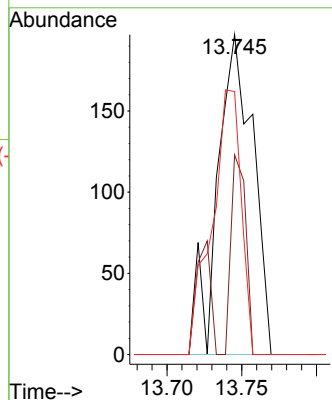
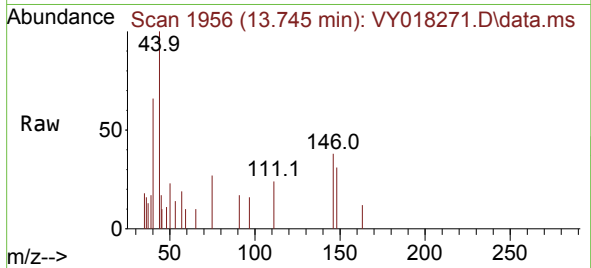




#91
 1,2-Dichlorobenzene
 Concen: 1.315 ug/l
 RT: 13.745 min Scan# 1956
 Delta R.T. 0.006 min
 Lab File: VY018271.D
 Acq: 15 May 2024 14:39

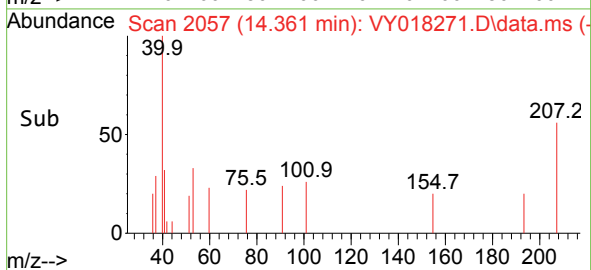
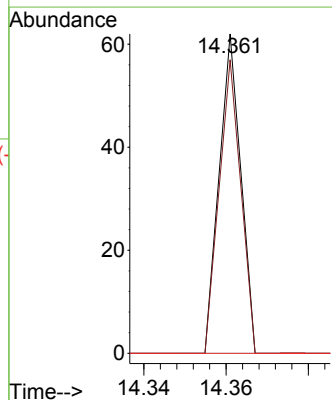
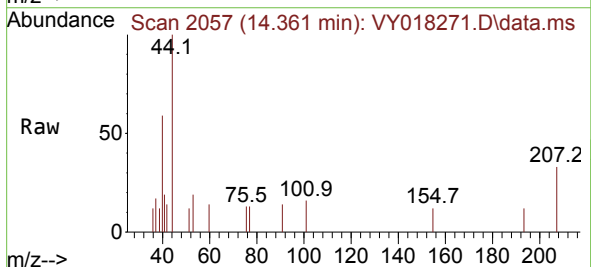
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-01-229

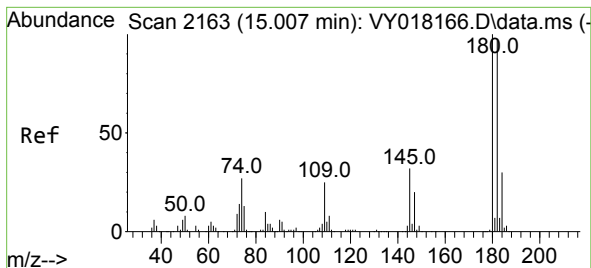
Tgt Ion:146 Resp: 326
 Ion Ratio Lower Upper
 146 100
 111 25.8 19.9 59.7
 148 68.1 31.8 95.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.628 ug/l
 RT: 14.361 min Scan# 2057
 Delta R.T. 0.006 min
 Lab File: VY018271.D
 Acq: 15 May 2024 14:39

Tgt Ion: 75 Resp: 23
 Ion Ratio Lower Upper
 75 100
 155 91.3 48.6 145.8
 157 0.0 62.7 188.2#





#93

1,2,4-Trichlorobenzene

Concen: 2.267 ug/l

RT: 15.001 min Scan# 2162

Delta R.T. -0.006 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

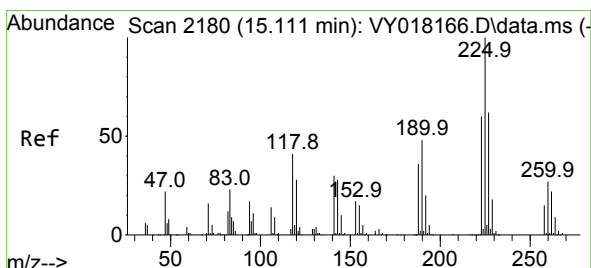
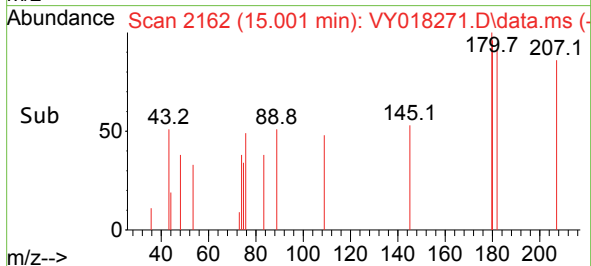
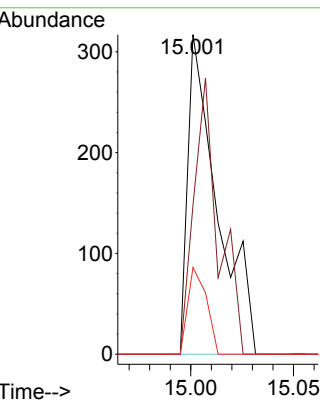
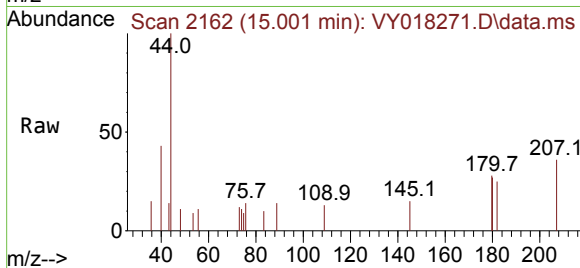
Tgt Ion:180 Resp: 316

Ion Ratio Lower Upper

180 100

182 71.8 47.9 143.8

145 17.1 14.2 42.6



#94

Hexachlorobutadiene

Concen: 1.586 ug/l

RT: 15.111 min Scan# 2180

Delta R.T. 0.000 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

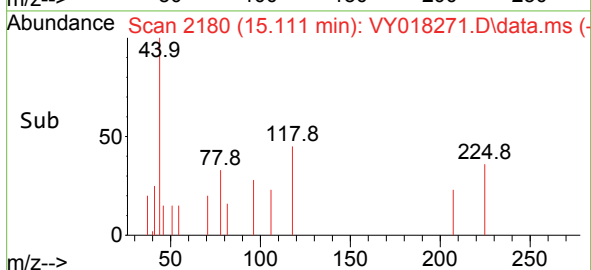
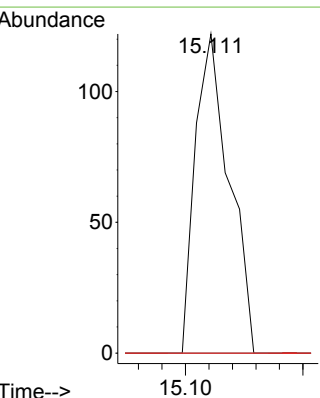
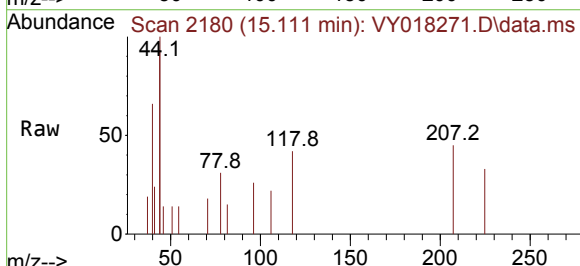
Tgt Ion:225 Resp: 122

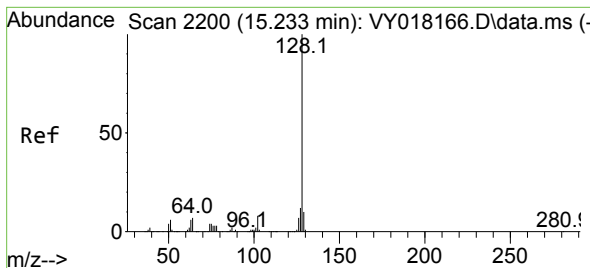
Ion Ratio Lower Upper

225 100

223 0.0 30.4 91.2#

227 0.0 31.9 95.9#





#95

Naphthalene

Concen: 7.724 ug/l

RT: 15.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Instrument :

MSVOA_Y

ClientSampleId :

B-01-229

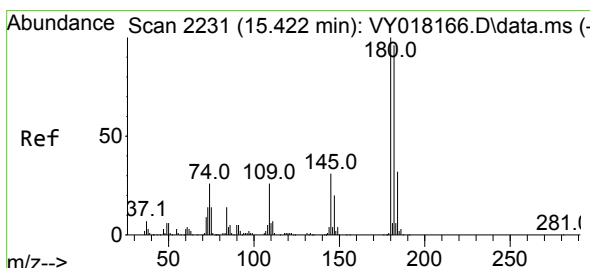
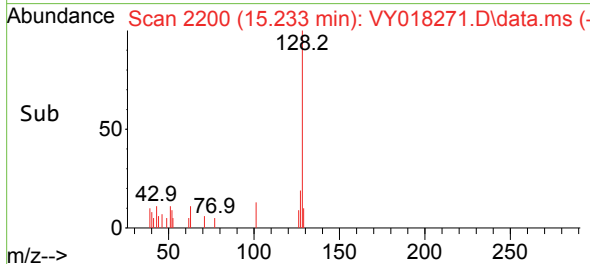
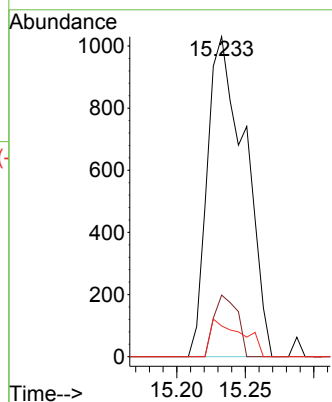
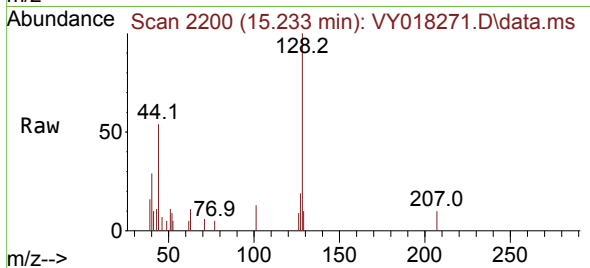
Tgt Ion:128 Resp: 1973

Ion Ratio Lower Upper

128 100

127 11.9 10.6 16.0

129 9.8 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 1.372 ug/l

RT: 15.428 min Scan# 2232

Delta R.T. 0.006 min

Lab File: VY018271.D

Acq: 15 May 2024 14:39

Tgt Ion:180 Resp: 157

Ion Ratio Lower Upper

180 100

182 180.9 47.6 142.9#

145 14.6 15.4 46.1#

