

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052424\
 Data File : VY018369.D
 Acq On : 24 May 2024 16:44
 Operator : SY/MD
 Sample : P2580-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 25 03:26:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052224S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 23 01:40:36 2024
 Response via : Initial Calibration

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

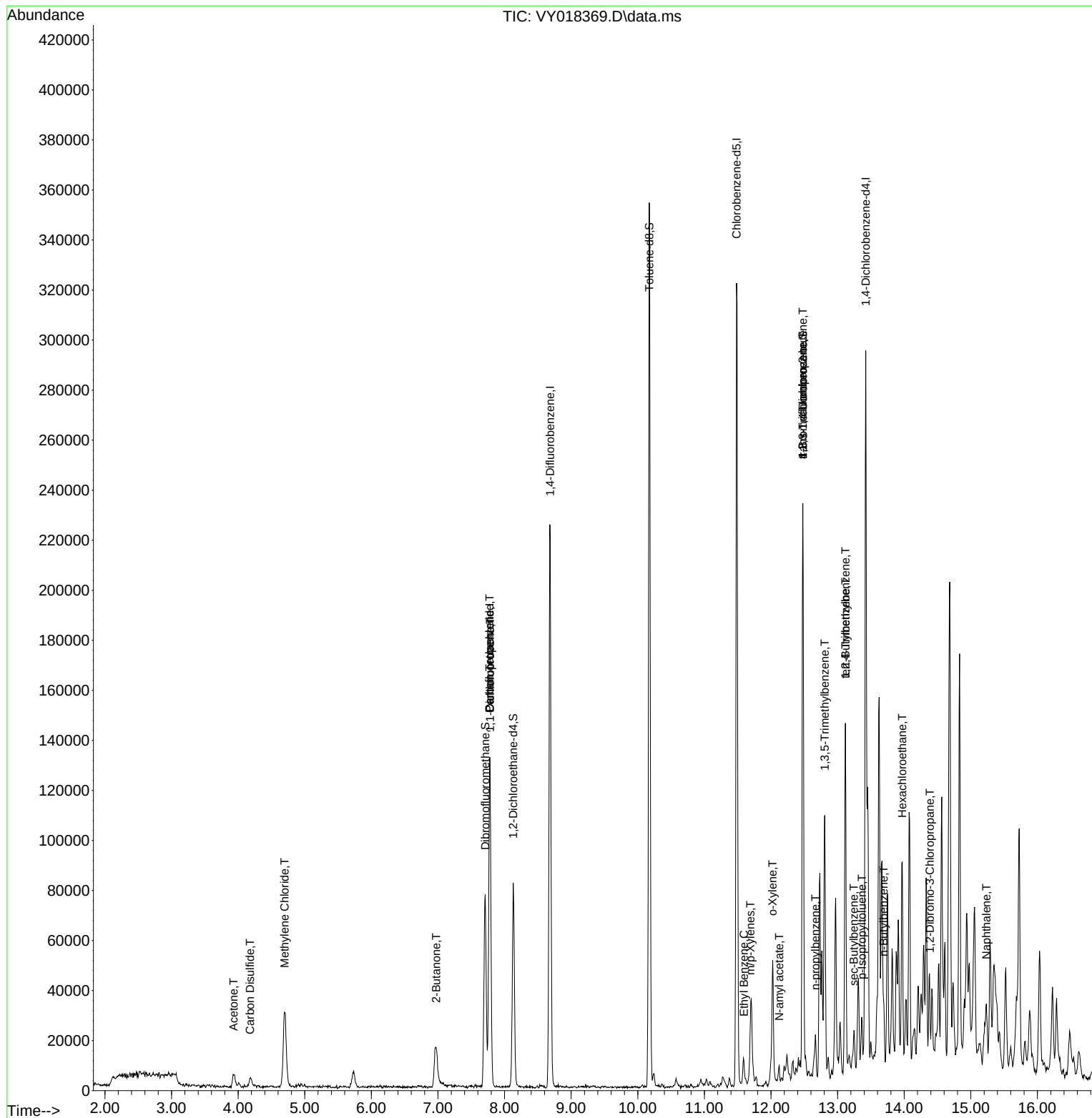
Internal Standards						
1) Pentafluorobenzene	7.777	168	96180	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.685	114	193276	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	173211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	65942	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	56073	61.536	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.080%	
35) Dibromofluoromethane	7.710	113	53666	47.615	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 95.220%	
50) Toluene-d8	10.173	98	226473	51.538	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.080%	
62) 4-Bromofluorobenzene	12.477	95	70435	51.874	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 103.740%	
Target Compounds						Qvalue
11) Tert butyl alcohol	4.942	59	463	Below Cal	#	88
13) Acrolein	3.717	56	157	Below Cal	#	36
16) Acetone	3.930	43	9733	51.932	ug/l	90
17) Carbon Disulfide	4.180	76	3341	1.176	ug/l	# 83
20) Methylene Chloride	4.698	84	23738	18.996	ug/l	96
25) 2-Butanone	6.972	43	1994	6.714	ug/l	99
31) Cyclohexane	7.783	56	2463	Below Cal	#	53
36) 1,1-Dichloropropene	7.783	75	8581	5.250	ug/l	# 48
38) Carbon Tetrachloride	7.777	117	10561	6.308	ug/l	# 17
67) Ethyl Benzene	11.593	91	6972	1.110	ug/l	100
68) m/p-Xylenes	11.691	106	8041	3.326	ug/l	97
69) o-Xylene	12.026	106	11620	5.093	ug/l	87
74) N-amyl acetate	12.124	43	1914	1.583	ug/l	# 49
76) 1,2,3-Trichloropropane	12.477	75	37143	62.670	ug/l	# 100
78) n-propylbenzene	12.666	91	13010	2.096	ug/l	98
80) 1,3,5-Trimethylbenzene	12.806	105	29214	7.173	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.477	75	37143	128.944	ug/l	# 16
83) tert-Butylbenzene	13.117	119	8758	2.326	ug/l	# 69
84) 1,2,4-Trimethylbenzene	13.117	105	70392	17.574	ug/l	98
85) sec-Butylbenzene	13.245	105	8246	1.481	ug/l	90
86) p-Isopropyltoluene	13.367	119	6287	1.380	ug/l	94
89) n-Butylbenzene	13.690	91	11453	2.676	ug/l	# 75
90) Hexachloroethane	13.971	117	3566	4.240	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.385	75	246	2.031	ug/l	# 1
95) Naphthalene	15.233	128	12610	5.804	ug/l	95

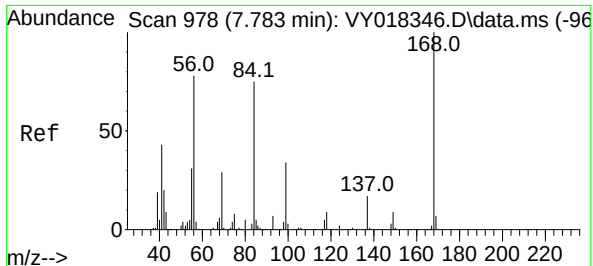
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

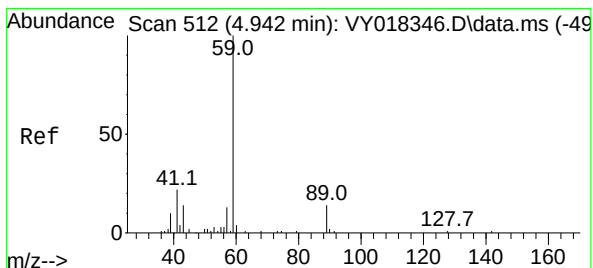
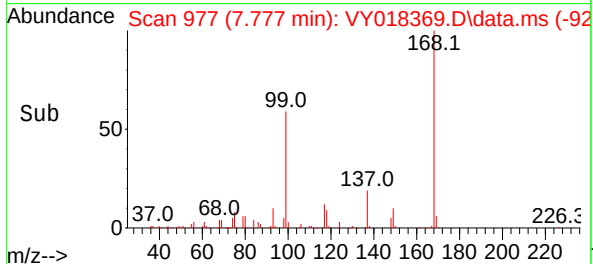
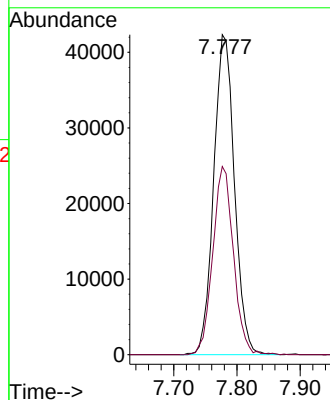
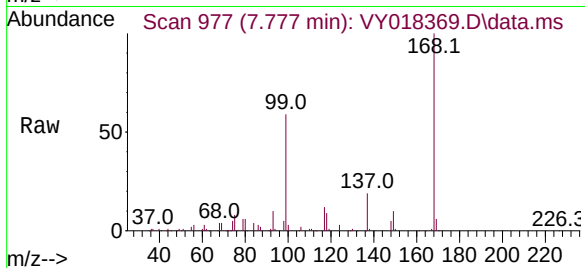




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

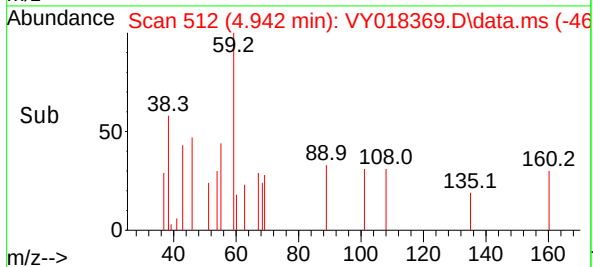
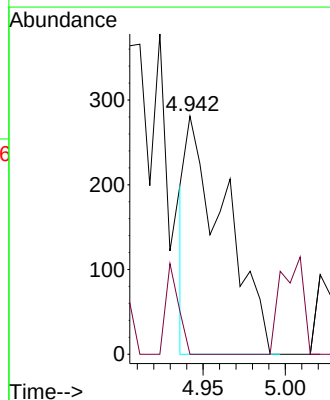
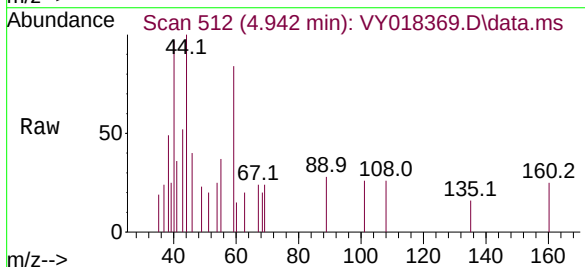
Instrument :
MSVOA_Y
ClientSampleId :

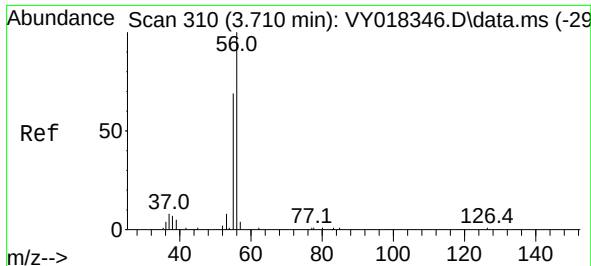
Tgt Ion:168 Resp: 96180
Ion Ratio Lower Upper
168 100
99 58.8 39.1 58.7#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 512
Delta R.T. -0.000 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Tgt Ion: 59 Resp: 463
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#





#13

Acrolein

Concen: Below Cal

RT: 3.717 min Scan# 311

Delta R.T. 0.007 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

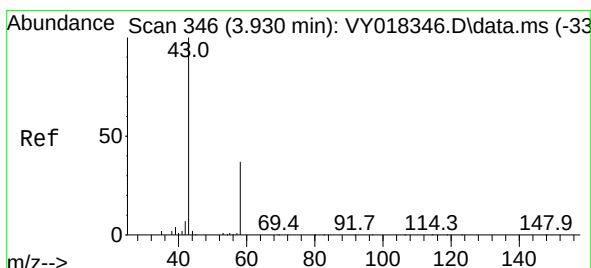
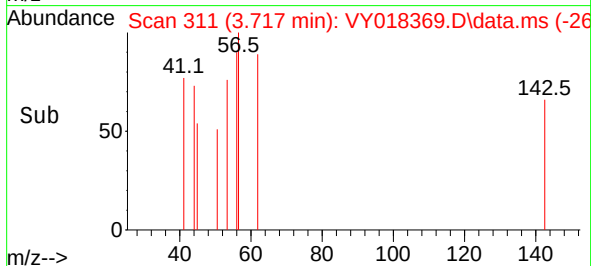
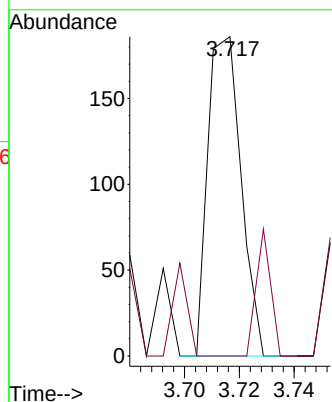
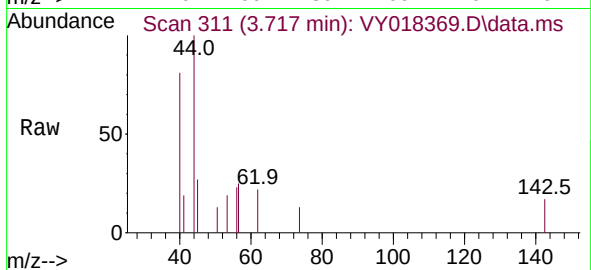
ClientSampleId :

Tgt Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 17.2 55.7 83.5#



#16

Acetone

Concen: 51.932 ug/l

RT: 3.930 min Scan# 346

Delta R.T. 0.000 min

Lab File: VY018369.D

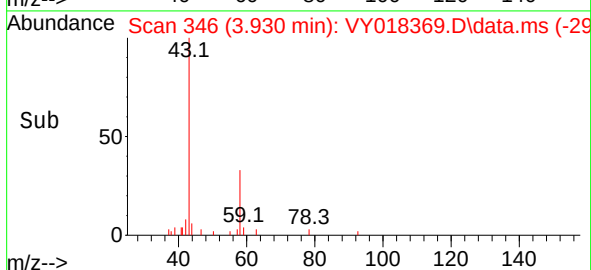
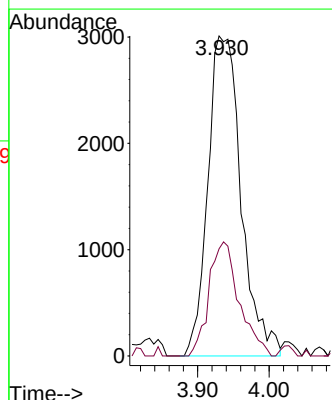
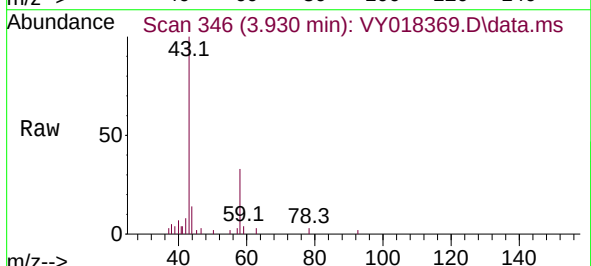
Acq: 24 May 2024 16:44

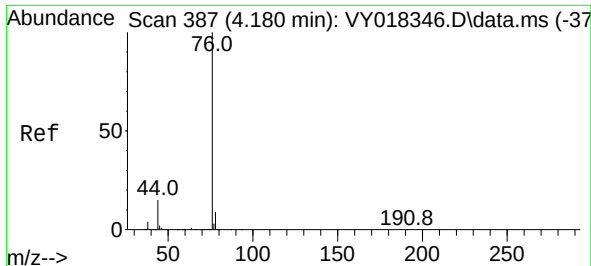
Tgt Ion: 43 Resp: 9733

Ion Ratio Lower Upper

43 100

58 33.5 31.7 47.5





#17

Carbon Disulfide

Concen: 1.176 ug/l

RT: 4.180 min Scan# 387

Delta R.T. 0.000 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

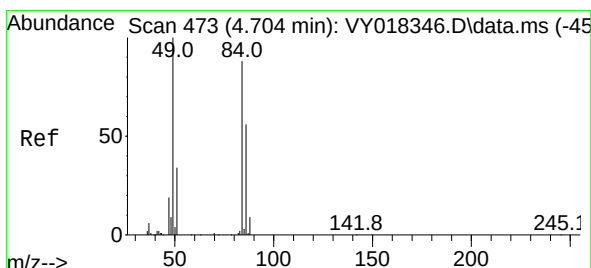
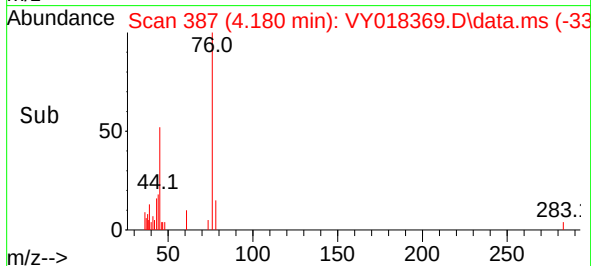
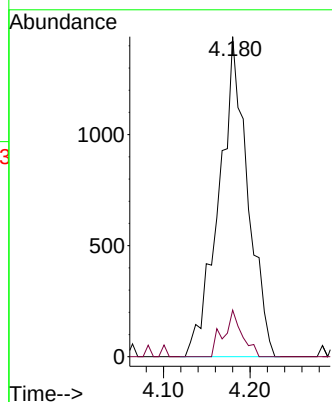
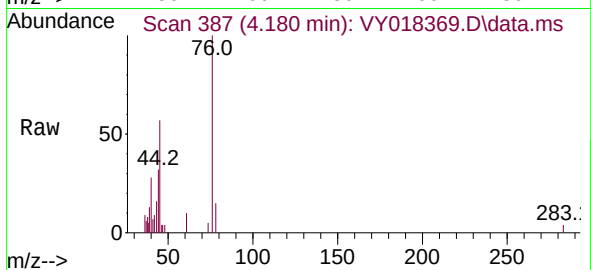
ClientSampleId :

Tgt Ion: 76 Resp: 3341

Ion Ratio Lower Upper

76 100

78 14.6 6.8 10.2#



#20

Methylene Chloride

Concen: 18.996 ug/l

RT: 4.698 min Scan# 472

Delta R.T. -0.006 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Tgt Ion: 84 Resp: 23738

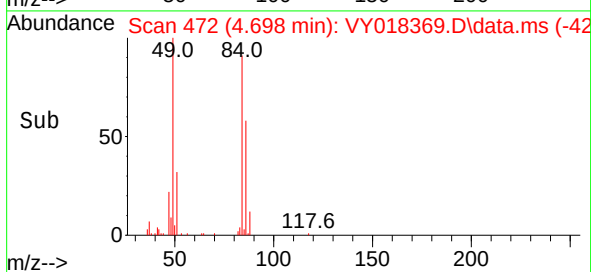
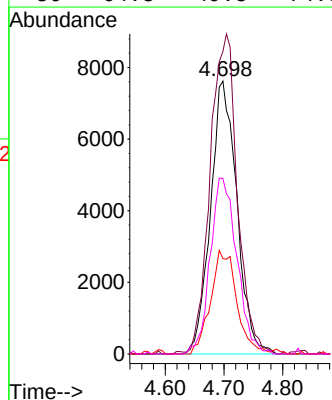
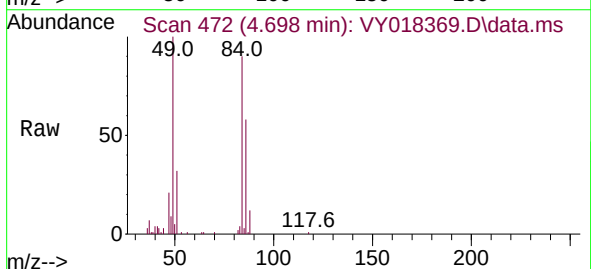
Ion Ratio Lower Upper

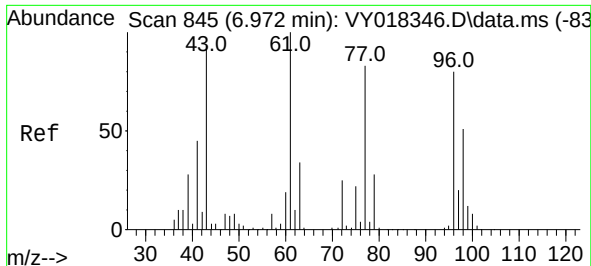
84 100

49 110.9 84.4 126.6

51 35.0 26.0 39.0

86 64.3 49.5 74.3





#25

2-Butanone

Concen: 6.714 ug/l

RT: 6.972 min Scan# 845

Delta R.T. 0.000 min

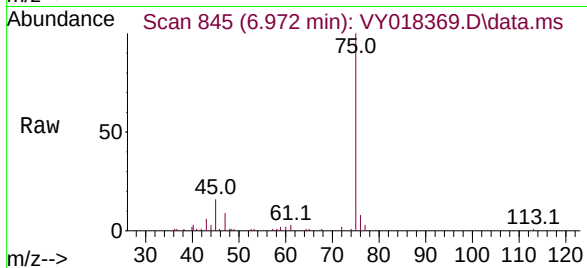
Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

ClientSampleId :

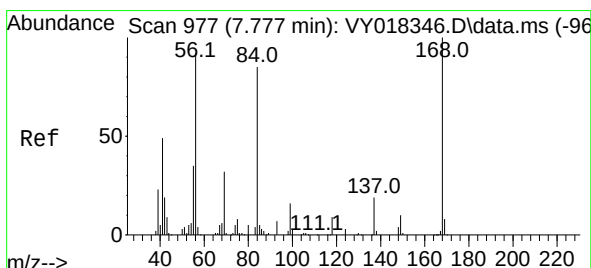
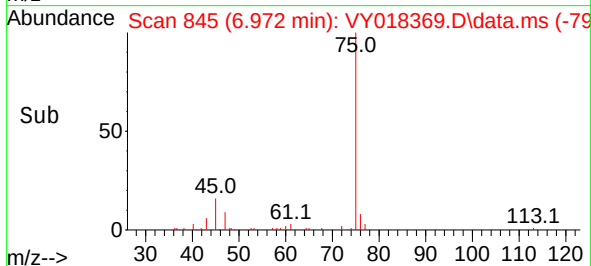
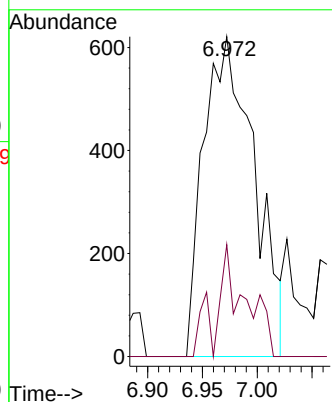


Tgt Ion: 43 Resp: 1994

Ion Ratio Lower Upper

43 100

72 34.9 27.3 40.9



#31

Cyclohexane

Concen: Below Cal

RT: 7.783 min Scan# 978

Delta R.T. 0.006 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

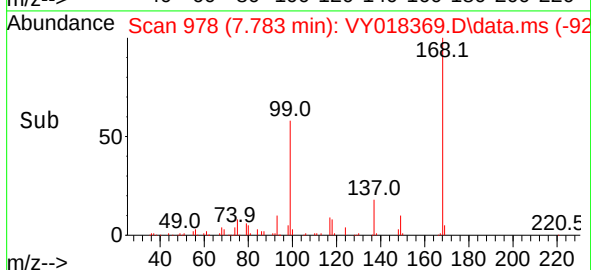
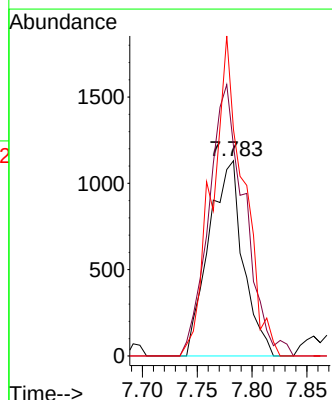
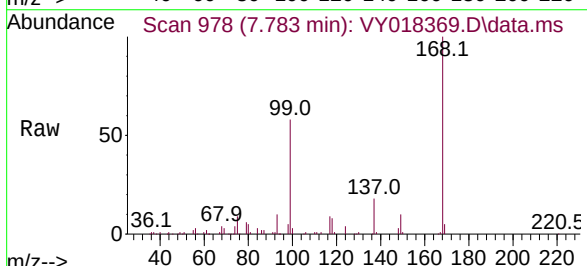
Tgt Ion: 56 Resp: 2463

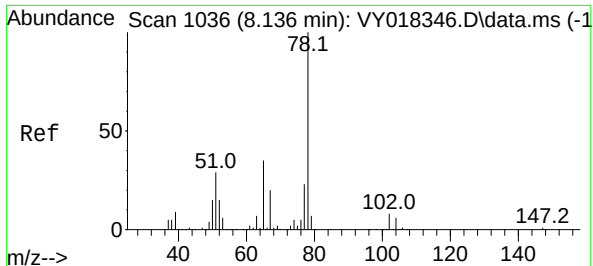
Ion Ratio Lower Upper

56 100

69 107.5 28.7 43.1#

84 116.0 77.7 116.5





#33

1,2-Dichloroethane-d4

Concen: 61.536 ug/l

RT: 8.130 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

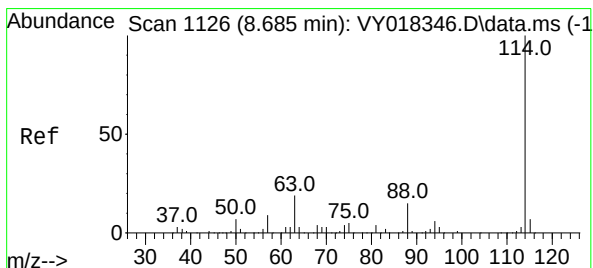
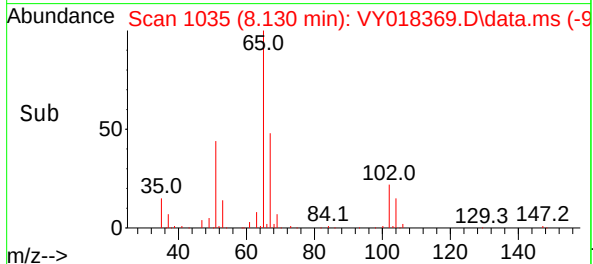
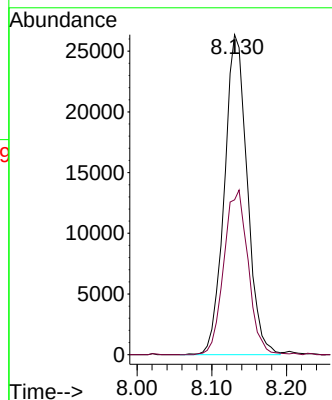
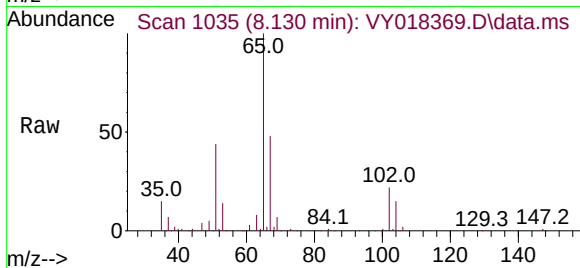
ClientSampleId :

Tgt Ion: 65 Resp: 56073

Ion Ratio Lower Upper

65 100

67 54.8 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: VY018369.D

Acq: 24 May 2024 16:44

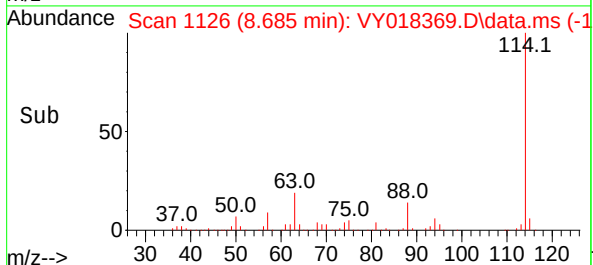
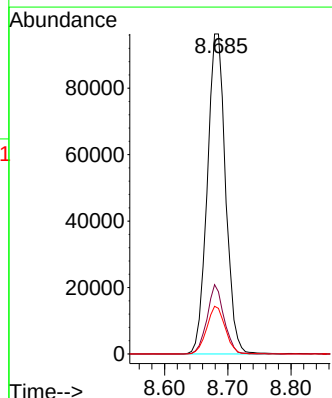
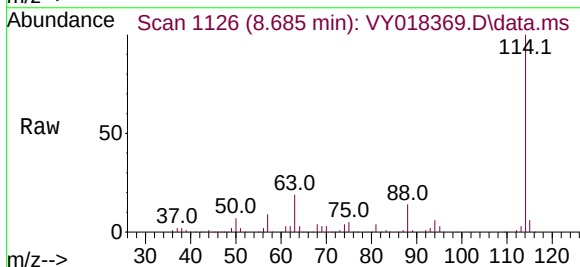
Tgt Ion:114 Resp: 193276

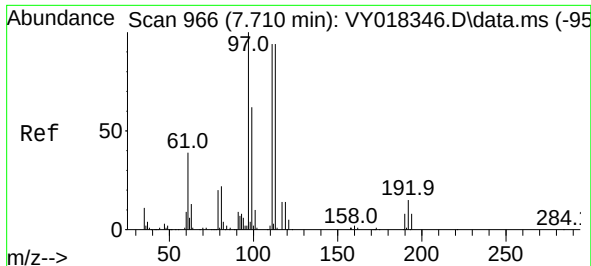
Ion Ratio Lower Upper

114 100

63 19.5 0.0 35.0

88 14.2 0.0 27.2





#35

Dibromofluoromethane

Concen: 47.615 ug/l

RT: 7.710 min Scan# 9

Delta R.T. 0.000 min

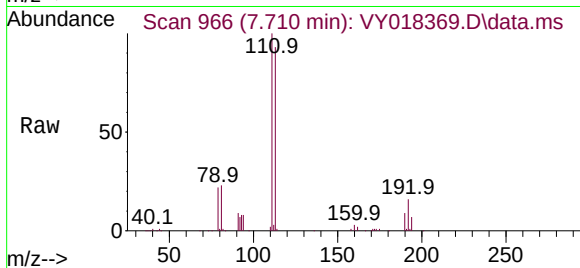
Lab File: VY018369.D

Acq: 24 May 2024 16:44

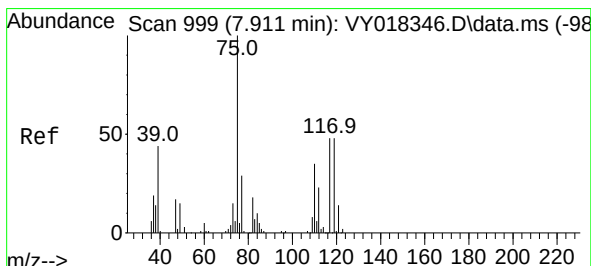
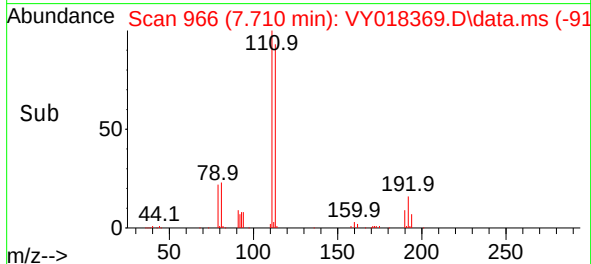
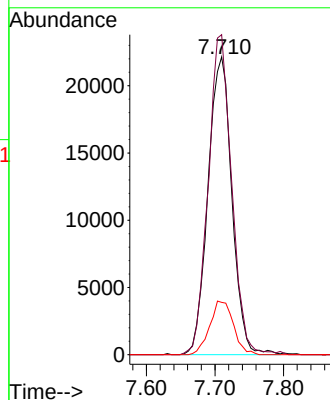
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	113	Resp:	53666
Ion	Ratio	Lower	Upper
113	100		
111	105.6	82.2	123.4
192	17.8	15.9	23.9



#36

1,1-Dichloropropene

Concen: 5.250 ug/l

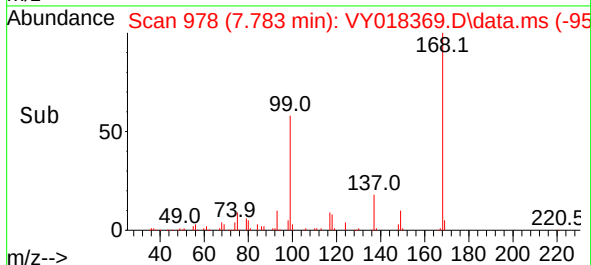
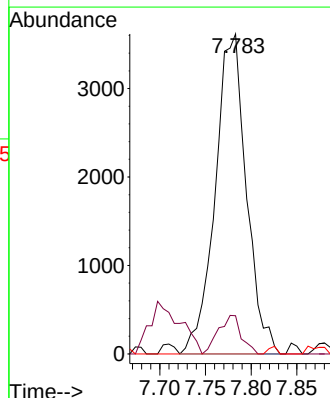
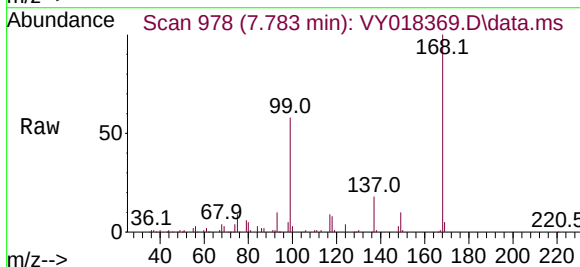
RT: 7.783 min Scan# 978

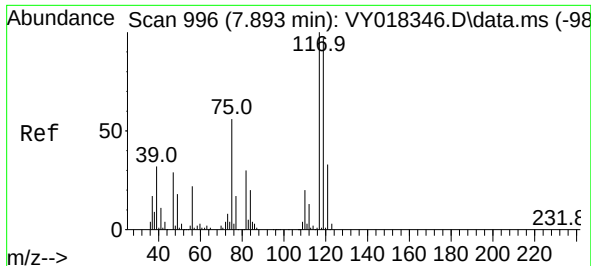
Delta R.T. -0.128 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

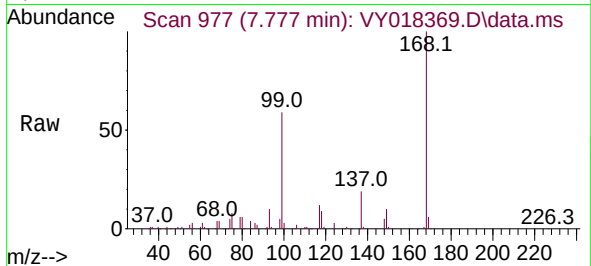
Tgt Ion:	75	Resp:	8581
Ion	Ratio	Lower	Upper
75	100		
110	8.8	19.0	57.0#
77	0.0	25.3	37.9#



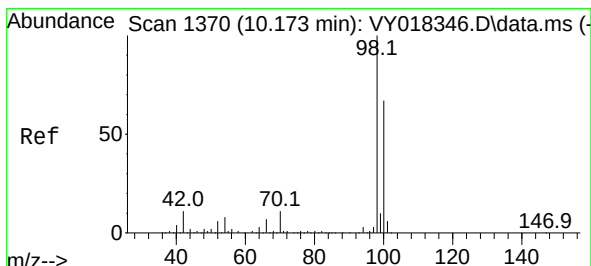
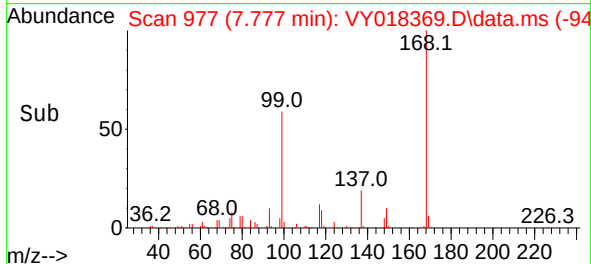
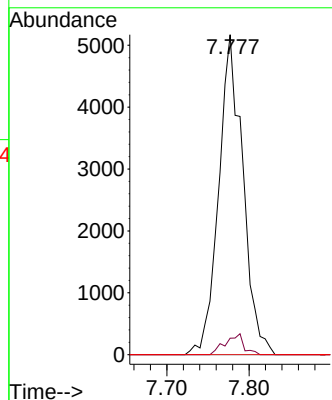


#38
Carbon Tetrachloride
Concen: 6.308 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :

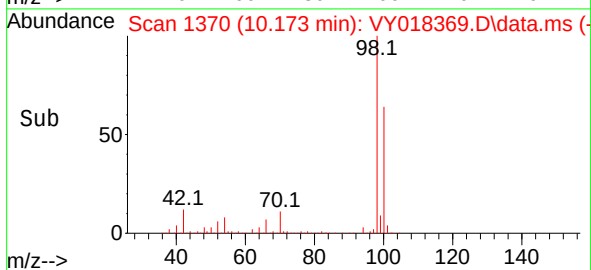
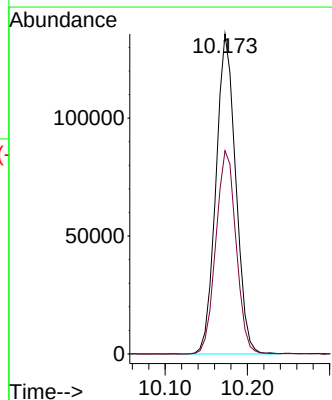
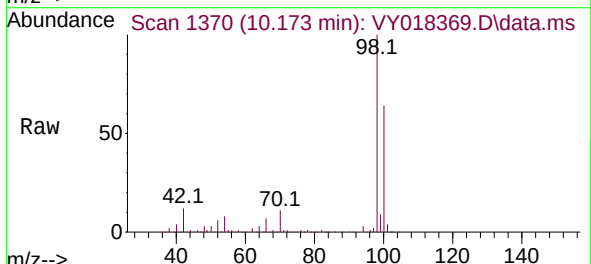


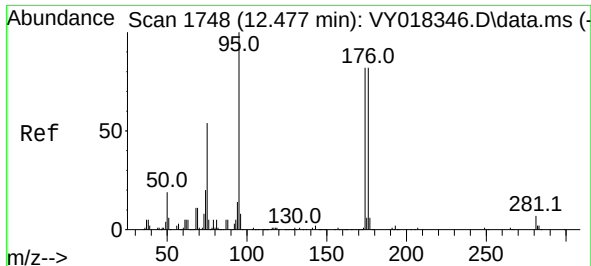
Tgt Ion:117 Resp: 10561
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 51.538 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. 0.000 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Tgt Ion: 98 Resp: 226473
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 51.874 ug/l

RT: 12.477 min Scan# 1

Delta R.T. 0.000 min

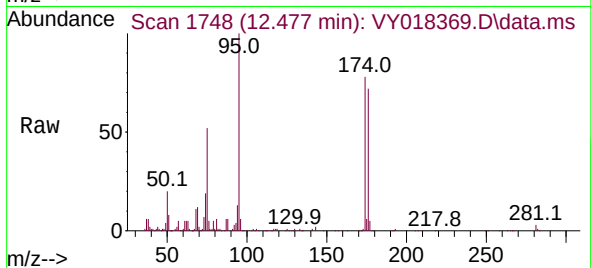
Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

ClientSampleId :



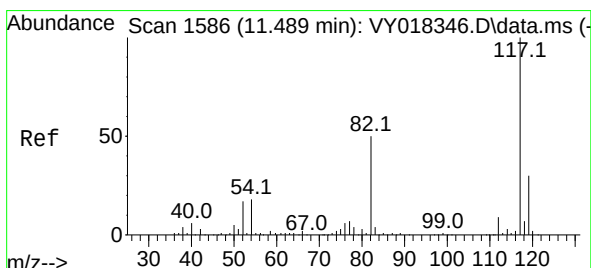
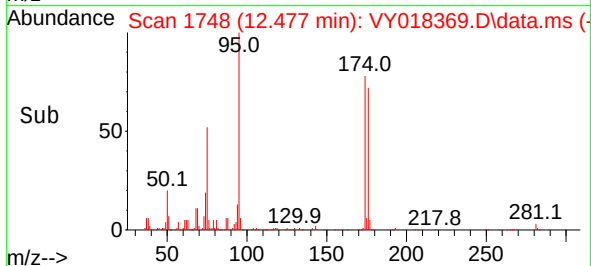
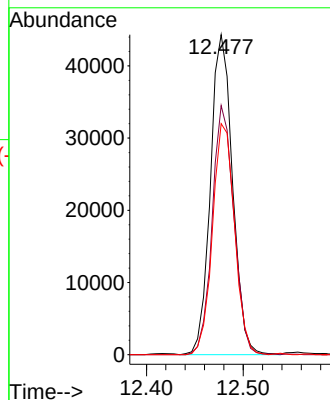
Tgt Ion: 95 Resp: 70435

Ion Ratio Lower Upper

95 100

174 76.1 0.0 175.6

176 72.0 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.483 min Scan# 1585

Delta R.T. -0.006 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

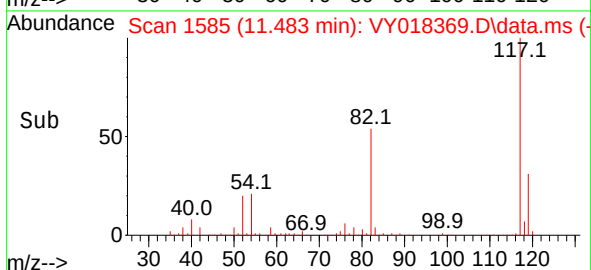
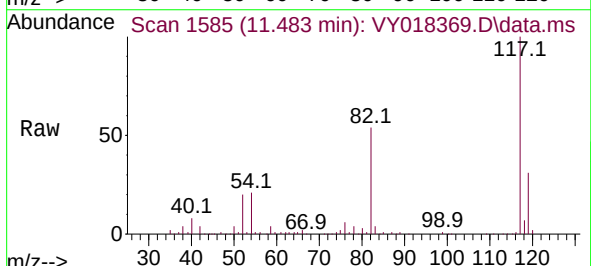
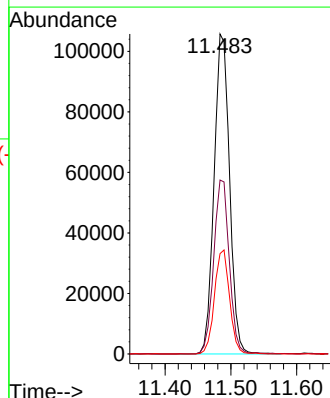
Tgt Ion: 117 Resp: 173211

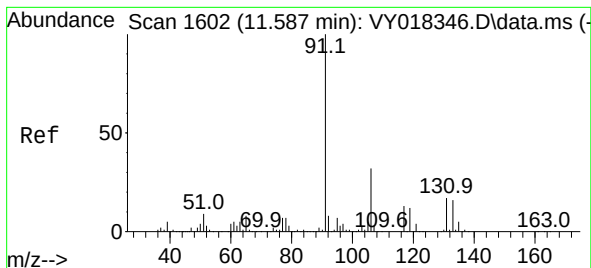
Ion Ratio Lower Upper

117 100

82 54.3 42.4 63.6

119 31.3 25.9 38.9





#67

Ethyl Benzene

Concen: 1.110 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.006 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

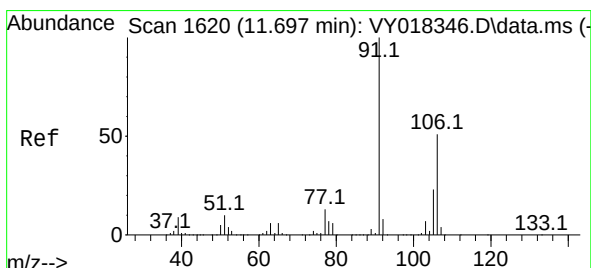
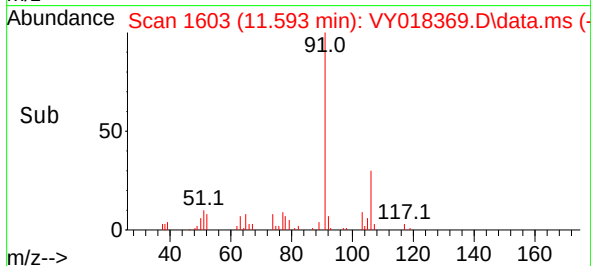
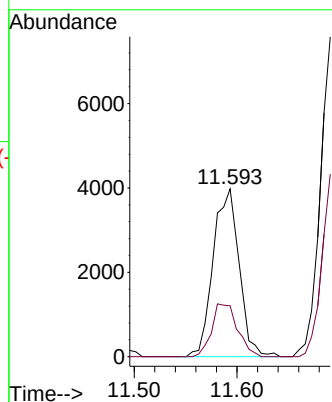
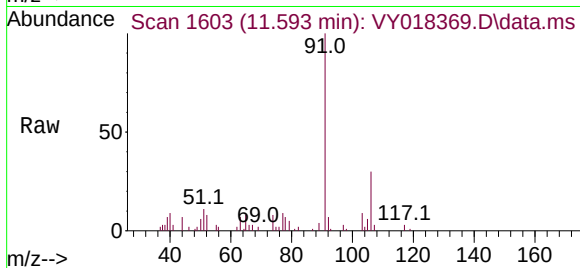
ClientSampleId :

Tgt Ion: 91 Resp: 6972

Ion Ratio Lower Upper

91 100

106 30.3 24.5 36.7



#68

m/p-Xylenes

Concen: 3.326 ug/l

RT: 11.691 min Scan# 1619

Delta R.T. -0.006 min

Lab File: VY018369.D

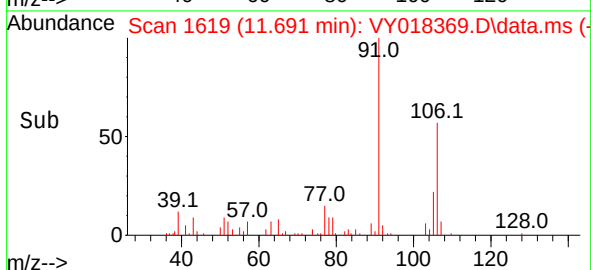
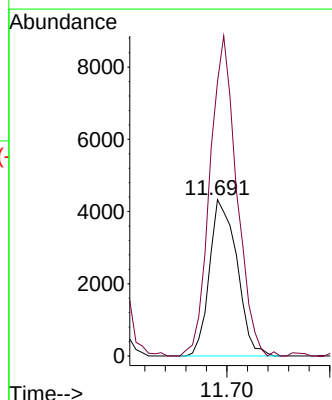
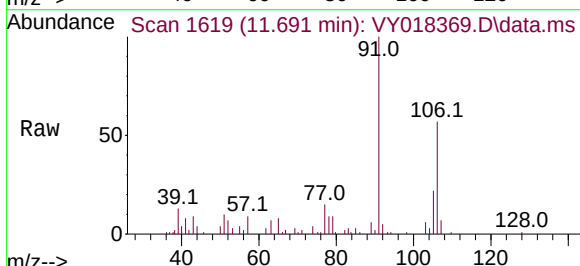
Acq: 24 May 2024 16:44

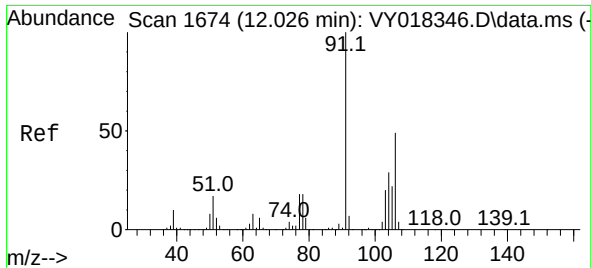
Tgt Ion: 106 Resp: 8041

Ion Ratio Lower Upper

106 100

91 199.7 156.0 234.0





#69

o-Xylene

Concen: 5.093 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

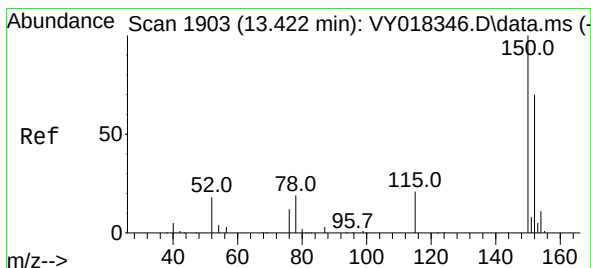
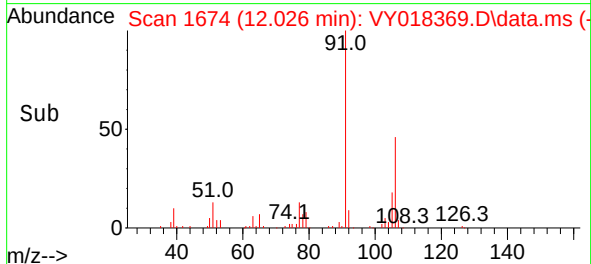
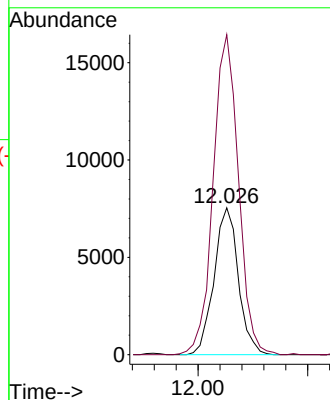
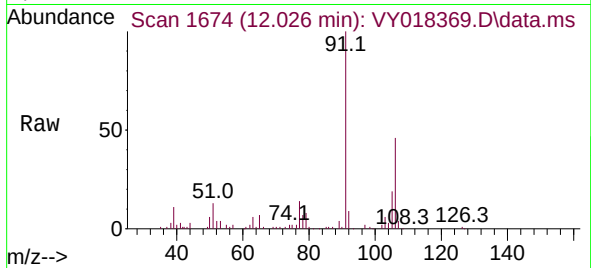
ClientSampleId :

Tgt Ion:106 Resp: 11620

Ion Ratio Lower Upper

106 100

91 226.7 103.6 310.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

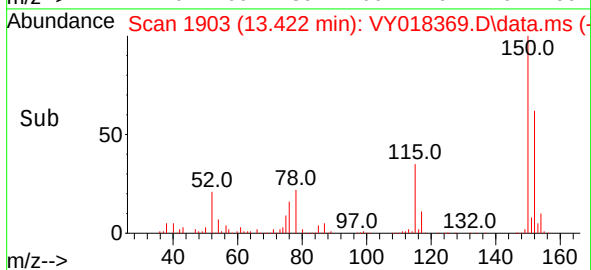
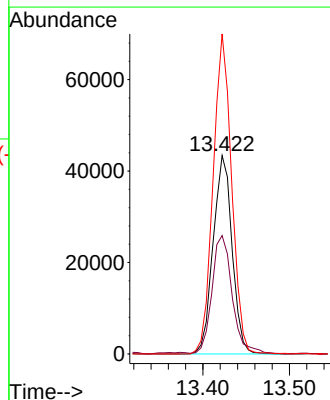
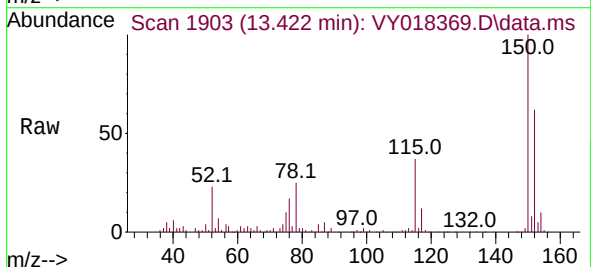
Tgt Ion:152 Resp: 65942

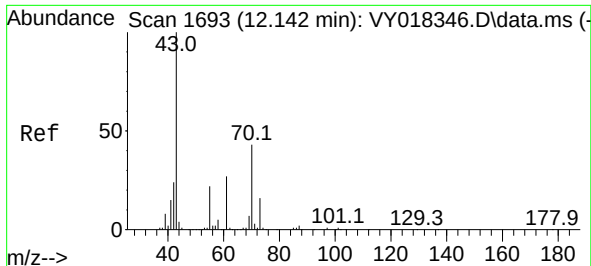
Ion Ratio Lower Upper

152 100

115 63.9 28.2 84.7

150 157.5 0.0 345.6

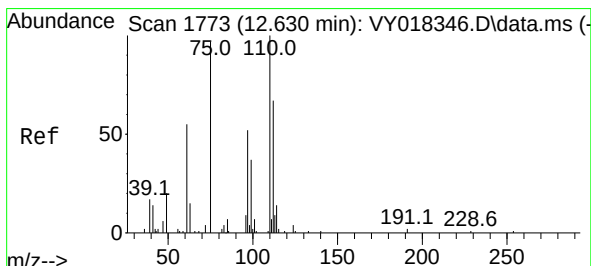
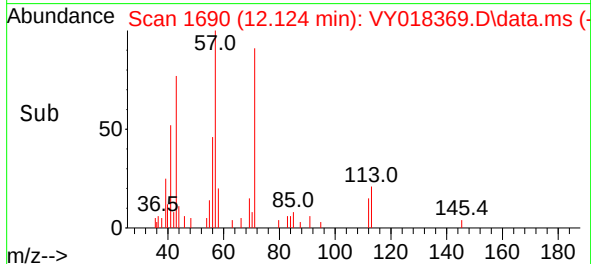
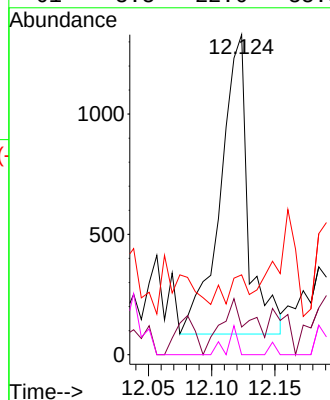
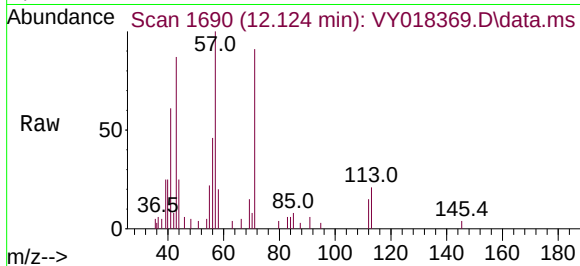




#74
N-amyI acetate
Concen: 1.583 ug/l
RT: 12.124 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

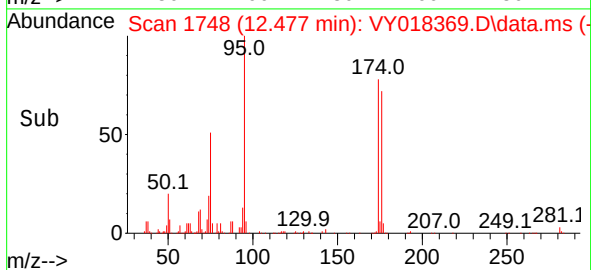
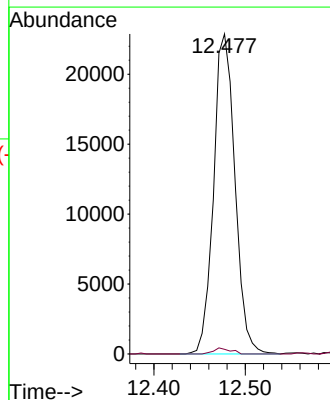
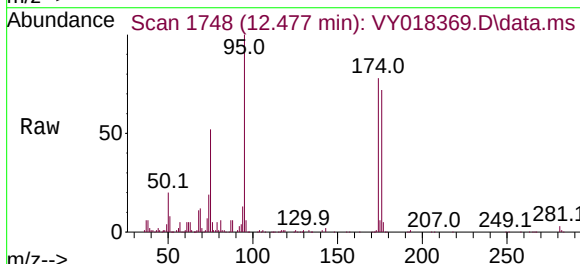
Instrument :
MSVOA_Y
ClientSampleId :

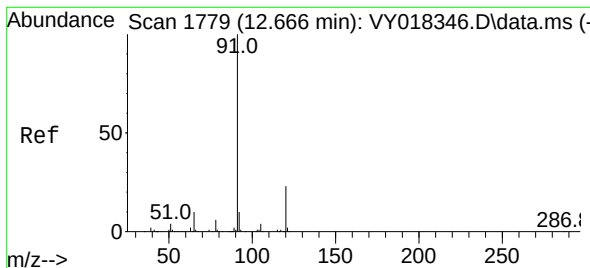
Tgt Ion: 43 Resp: 1914
Ion Ratio Lower Upper
43 100
70 15.7 41.4 62.2#
55 0.0 23.3 34.9#
61 3.3 22.6 33.8#



#76
1,2,3-Trichloropropane
Concen: 62.670 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Tgt Ion: 75 Resp: 37143
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#





#78

n-propylbenzene

Concen: 2.096 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

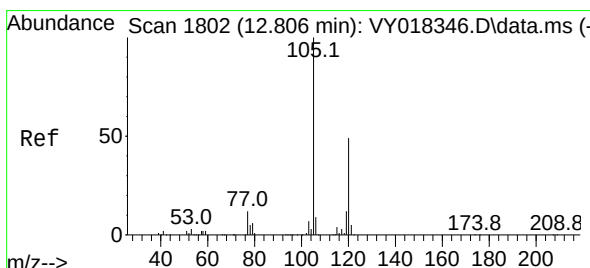
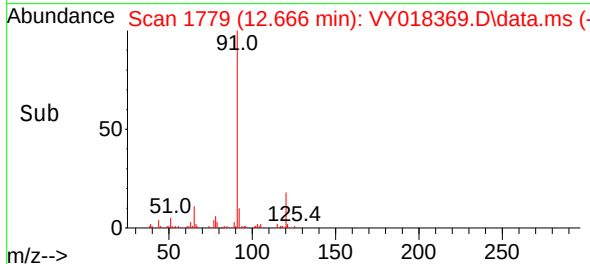
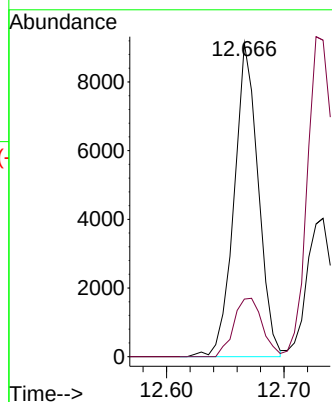
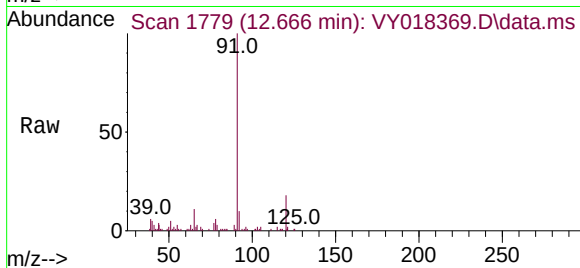
ClientSampleId :

Tgt Ion: 91 Resp: 13010

Ion Ratio Lower Upper

91 100

120 22.0 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 7.173 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. 0.000 min

Lab File: VY018369.D

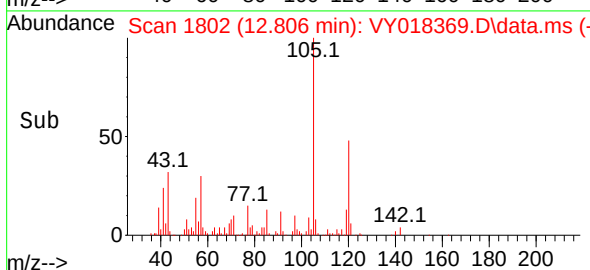
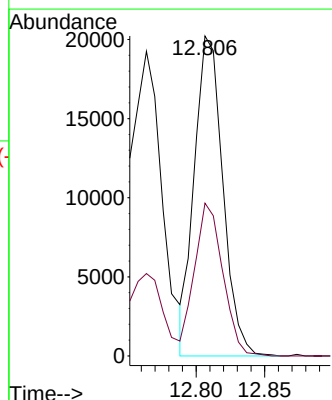
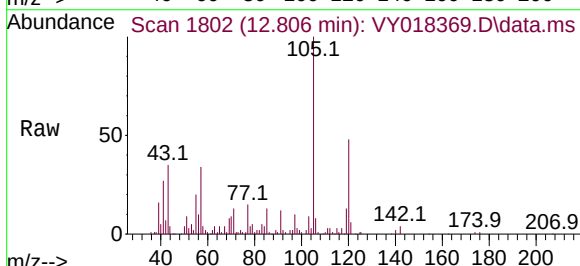
Acq: 24 May 2024 16:44

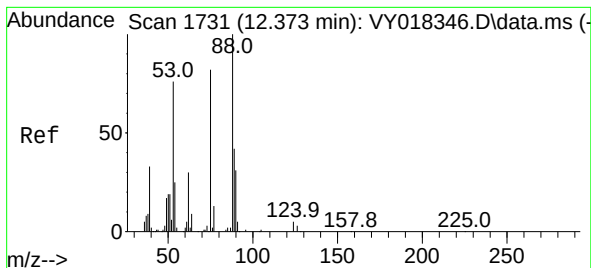
Tgt Ion: 105 Resp: 29214

Ion Ratio Lower Upper

105 100

120 47.4 25.1 75.2

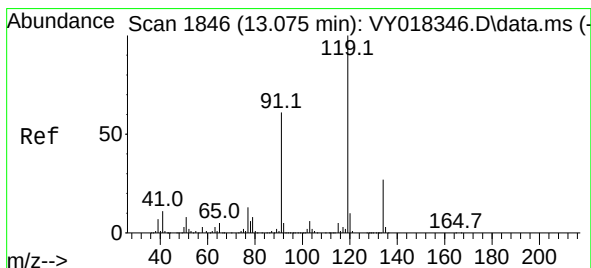
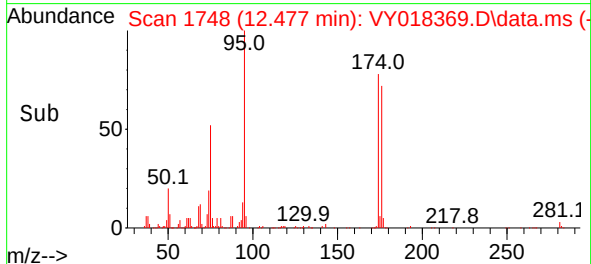
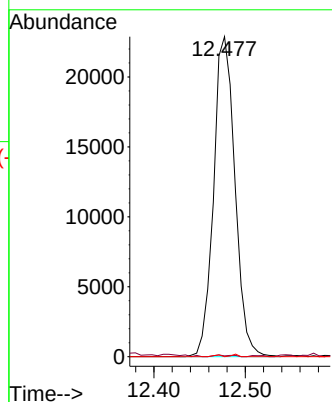
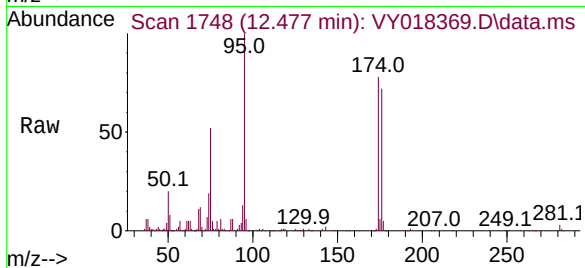




#81
trans-1,4-Dichloro-2-butene
Concen: 128.944 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

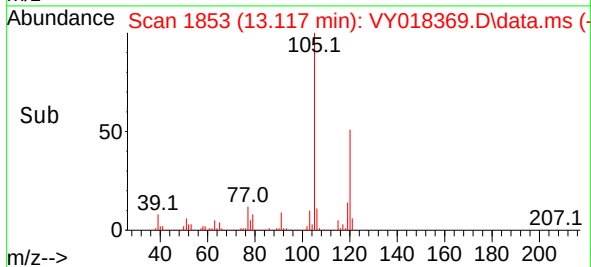
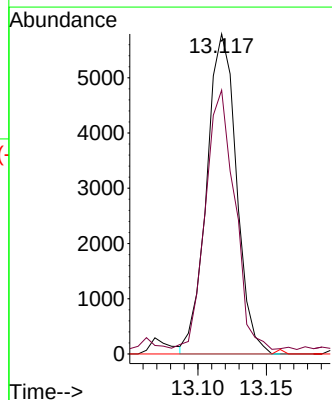
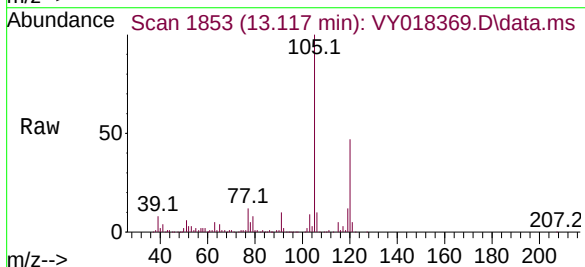
Instrument :
MSVOA_Y
ClientSampleId :

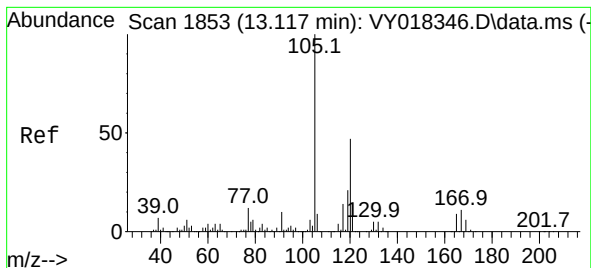
Tgt Ion: 75 Resp: 37143
Ion Ratio Lower Upper
75 100
53 0.4 66.8 100.2#
89 0.2 35.8 53.6#



#83
tert-Butylbenzene
Concen: 2.326 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Tgt Ion: 119 Resp: 8758
Ion Ratio Lower Upper
119 100
91 79.6 31.3 93.8
134 0.0 13.4 40.1#





#84

1,2,4-Trimethylbenzene

Concen: 17.574 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

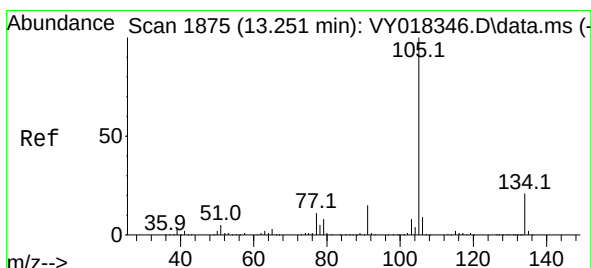
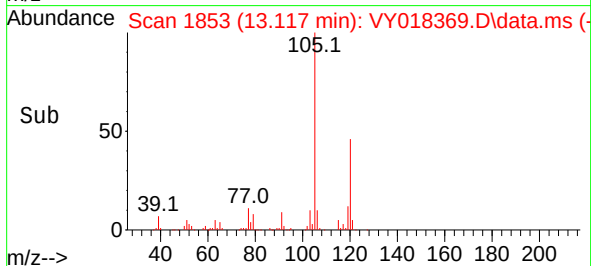
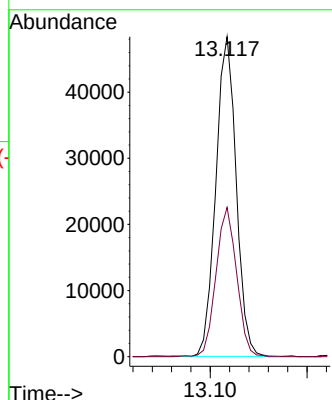
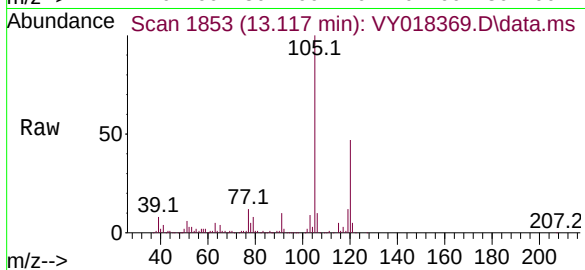
ClientSampleId :

Tgt Ion:105 Resp: 70392

Ion Ratio Lower Upper

105 100

120 47.5 23.2 69.6



#85

sec-Butylbenzene

Concen: 1.481 ug/l

RT: 13.245 min Scan# 1874

Delta R.T. -0.006 min

Lab File: VY018369.D

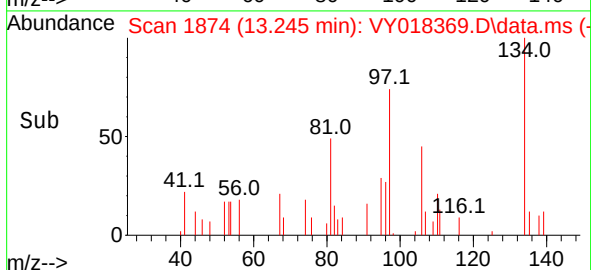
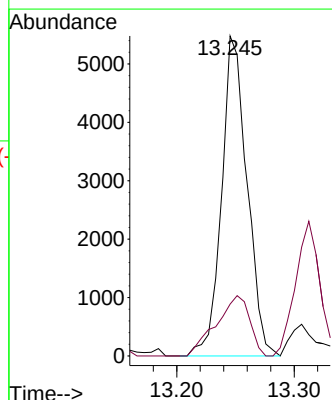
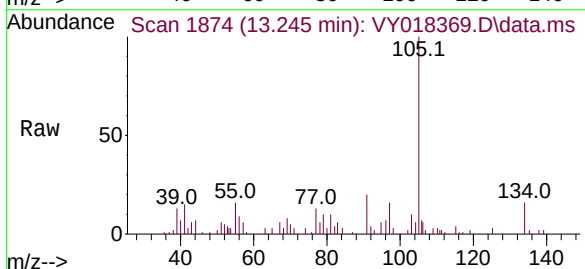
Acq: 24 May 2024 16:44

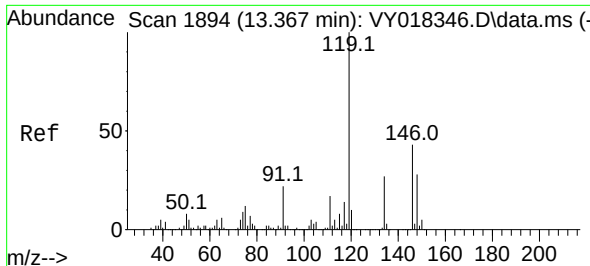
Tgt Ion:105 Resp: 8246

Ion Ratio Lower Upper

105 100

134 24.8 10.1 30.1

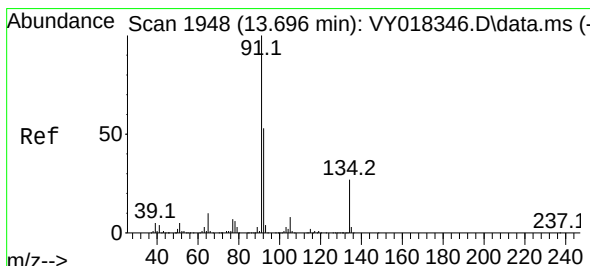
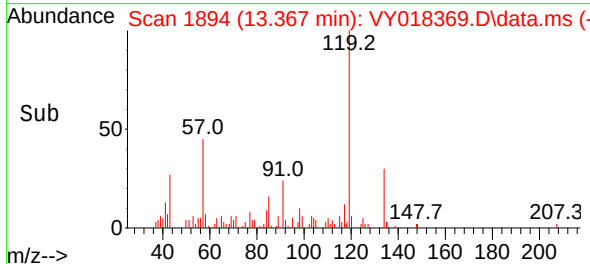
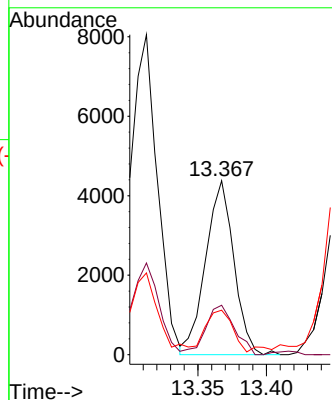
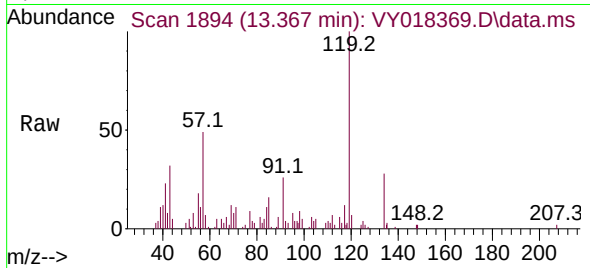




#86
p-Isopropyltoluene
Concen: 1.380 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

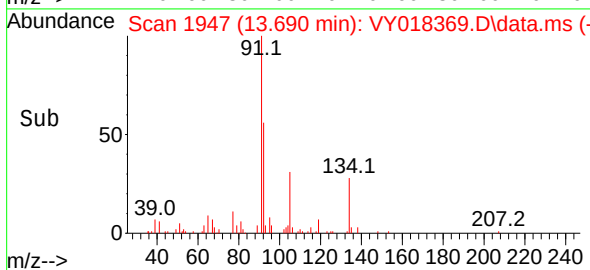
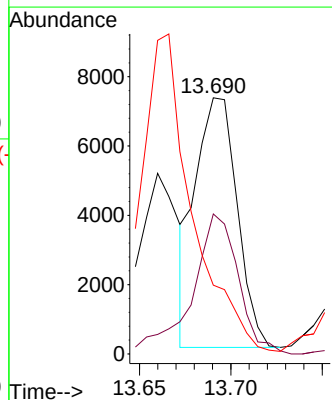
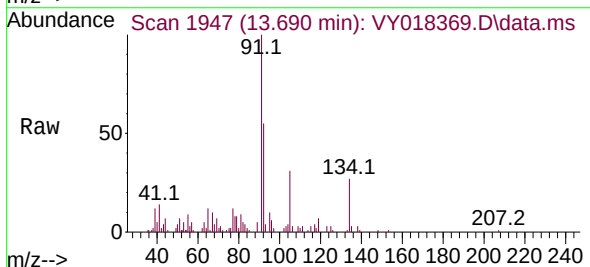
Instrument :
MSVOA_Y
ClientSampleId :

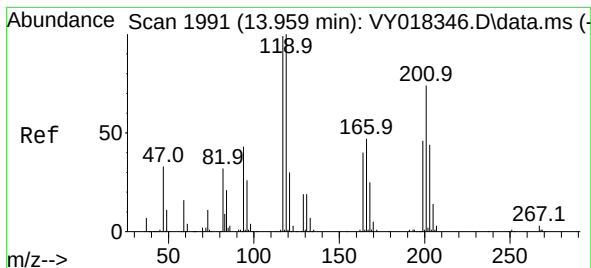
Tgt Ion:119 Resp: 6287
Ion Ratio Lower Upper
119 100
134 29.0 13.1 39.3
91 17.9 10.7 32.1



#89
n-Butylbenzene
Concen: 2.676 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. -0.006 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Tgt Ion: 91 Resp: 11453
Ion Ratio Lower Upper
91 100
92 61.6 26.6 79.7
134 0.0 12.9 38.7#





#90

Hexachloroethane

Concen: 4.240 ug/l

RT: 13.971 min Scan# 1991

Delta R.T. 0.012 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

Instrument :

MSVOA_Y

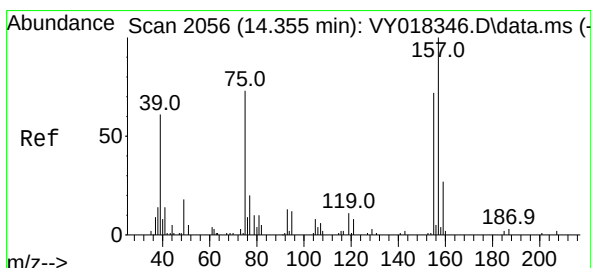
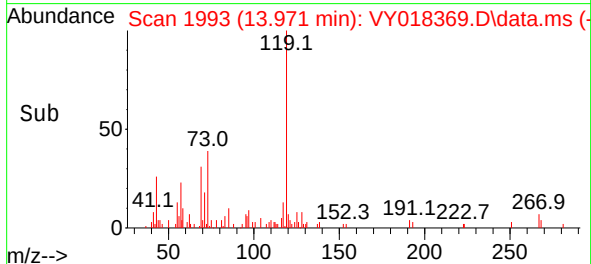
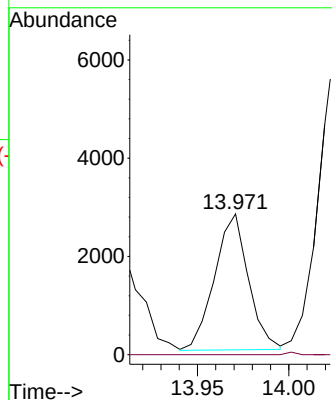
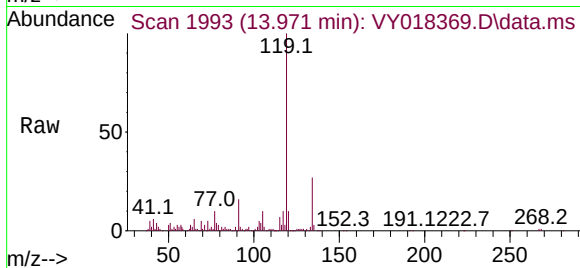
ClientSampleId :

Tgt Ion:117 Resp: 3566

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.031 ug/l

RT: 14.385 min Scan# 2061

Delta R.T. 0.031 min

Lab File: VY018369.D

Acq: 24 May 2024 16:44

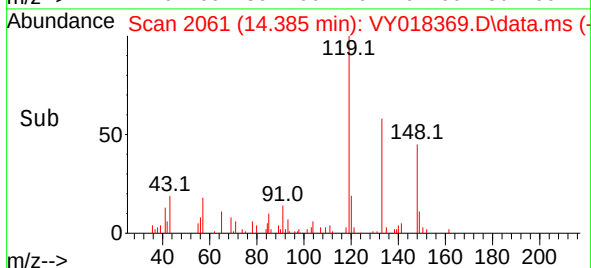
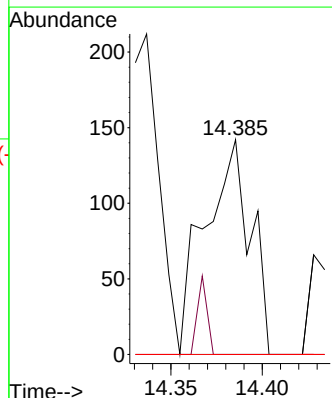
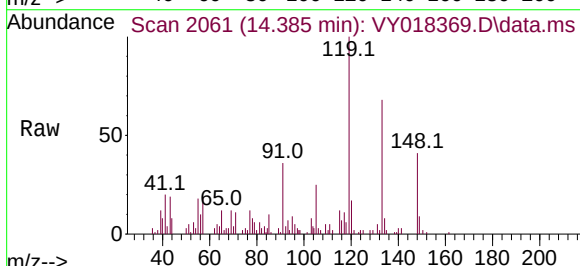
Tgt Ion: 75 Resp: 246

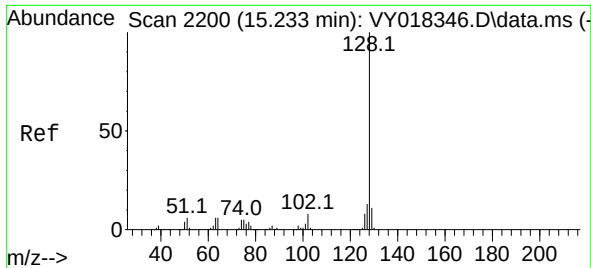
Ion Ratio Lower Upper

75 100

155 7.7 48.6 145.8#

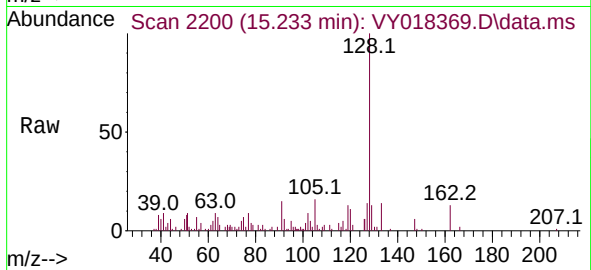
157 0.0 62.7 188.2#





#95
Naphthalene
Concen: 5.804 ug/l
RT: 15.233 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY018369.D
Acq: 24 May 2024 16:44

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:	128	Resp:	12610
Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.6	16.0
129	12.4	8.6	13.0

