

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031725\
 Data File : VY021548.D
 Acq On : 17 Mar 2025 14:03
 Operator : SY/MD
 Sample : Q1581-01
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 18 01:27:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

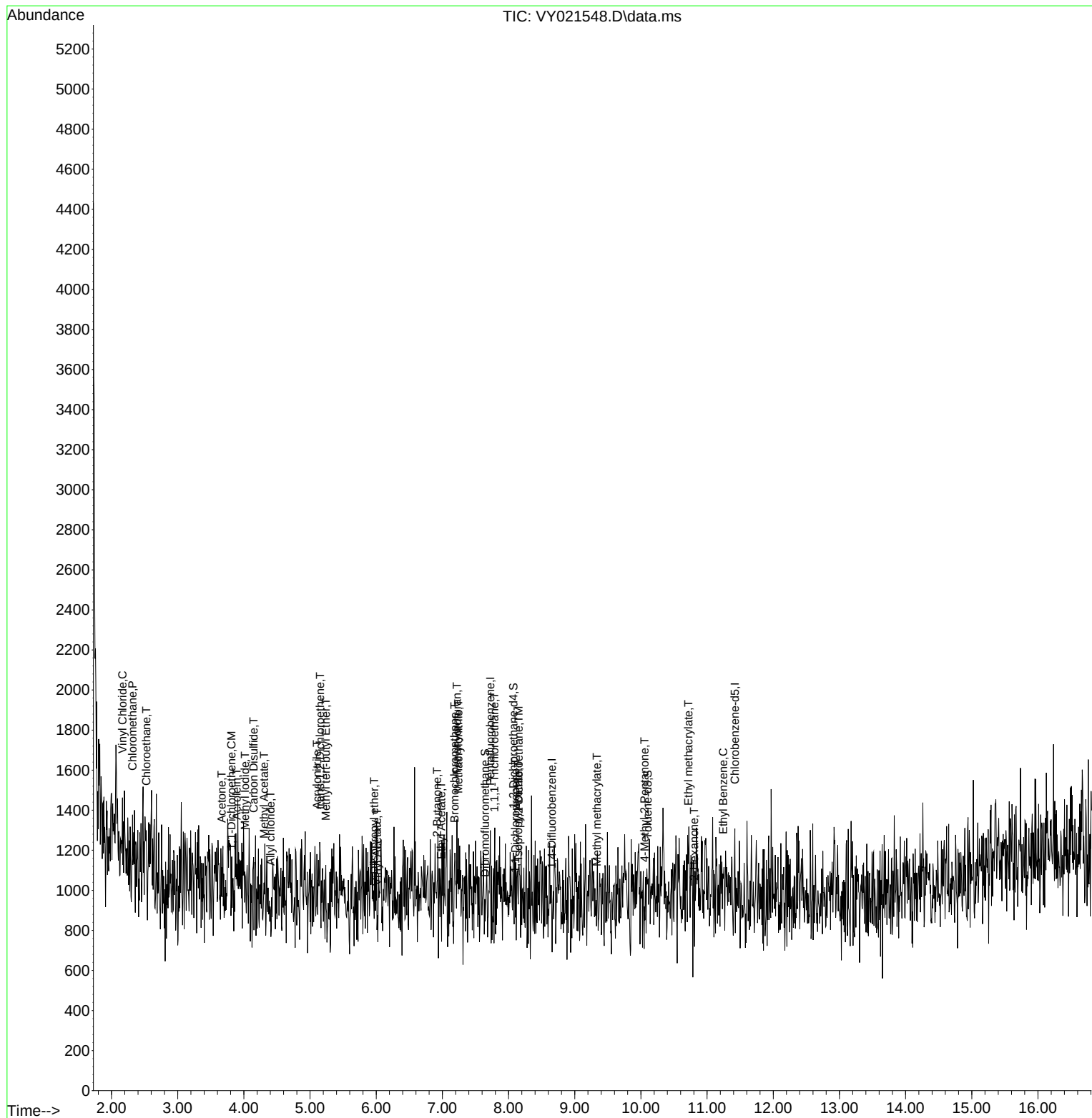
Internal Standards						
1) Pentafluorobenzene	7.725	168	133	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.652	114	19	50.000	ug/l	0.03
63) Chlorobenzene-d5	11.420	117	22	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ug/l	-13.35
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	147	104.572	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 209.140%#	
35) Dibromofluoromethane	7.646	113	50	400.353	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 800.700%#	
50) Toluene-d8	10.103	98	187	395.455	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 790.920%#	
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount	50.000	Range	30 - 143	Recovery	= 0.000%#	
Target Compounds						Qvalue
3) Chloromethane	2.318	50	39	22.665	ug/l #	42
4) Vinyl Chloride	2.165	62	44	23.399	ug/l #	42
6) Chloroethane	2.525	64	19	15.290	ug/l #	41
10) Methyl Iodide	4.019	142	122	80.092	ug/l #	37
12) 1,1-Dichloroethene	3.811	96	45	32.938	ug/l #	1
13) Acrolein	3.891	56	25	349.647	ug/l #	10
14) Allyl chloride	4.403	41	20	9.059	ug/l #	59
15) Acrylonitrile	5.104	53	48	155.023	ug/l #	17
16) Acetone	3.665	43	29	94.585	ug/l #	47
17) Carbon Disulfide	4.147	76	21	4.905	ug/l #	75
18) Methyl Acetate	4.305	43	56	82.317	ug/l #	51
19) Methyl tert-butyl Ether	5.238	73	22	6.353	ug/l #	53
21) trans-1,2-Dichloroethene	5.152	96	21	13.725	ug/l #	1
22) Diisopropyl ether	5.969	45	60	12.610	ug/l #	33
23) Vinyl Acetate	6.012	43	23	8.470	ug/l #	72
25) 2-Butanone	6.920	43	20	47.156	ug/l #	48
28) Bromochloromethane	7.183	49	45	38.222	ug/l #	14
29) Tetrahydrofuran	7.219	42	23	87.842	ug/l #	33
32) 1,1,1-Trichloroethane	7.786	97	26	9.738	ug/l #	23
36) 1,1-Dichloropropene	8.103	75	27	138.113	ug/l #	41
37) Ethyl Acetate	6.981	43	27	312.482	ug/l #	68
41) Methacrylonitrile	7.244	41	20	425.102	ug/l #	1
42) 1,2-Dichloroethane	8.152	62	22	136.558	ug/l #	75
43) Isopropyl Acetate	8.146	43	20	119.237	ug/l #	52
48) Methyl methacrylate	9.335	41	61	791.978	ug/l #	13
51) 4-Methyl-2-Pentanone	10.054	43	30	346.640	ug/l #	36
56) Ethyl methacrylate	10.719	69	42	330.123	ug/l #	1
59) 2-Hexanone	10.804	43	20	349.493	ug/l #	24
67) Ethyl Benzene	11.243	91	20	21.933	ug/l #	44

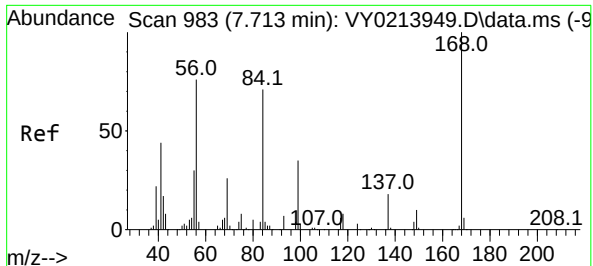
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

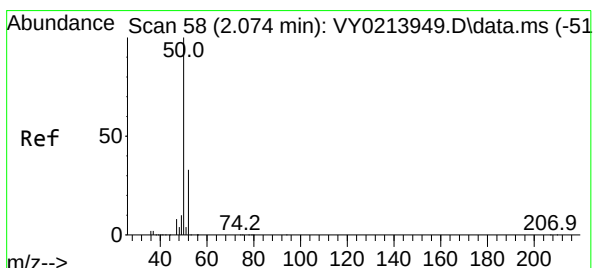
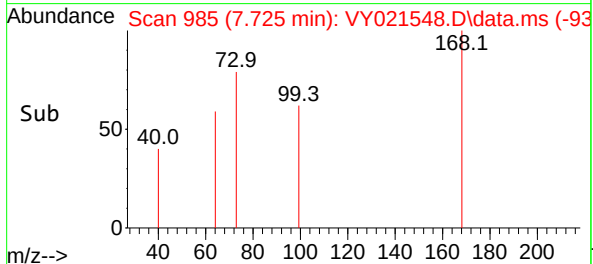
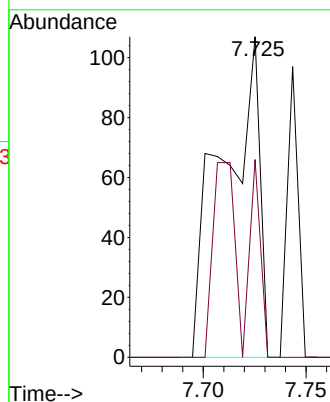
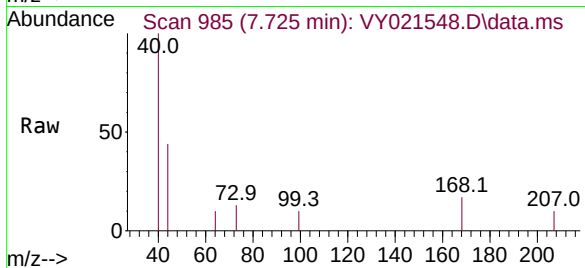




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.725 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

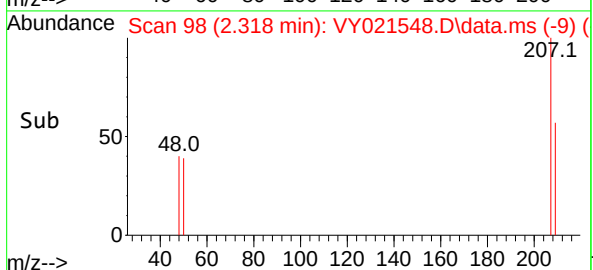
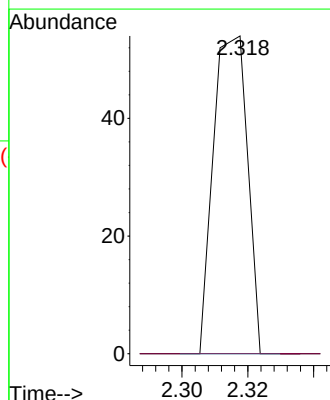
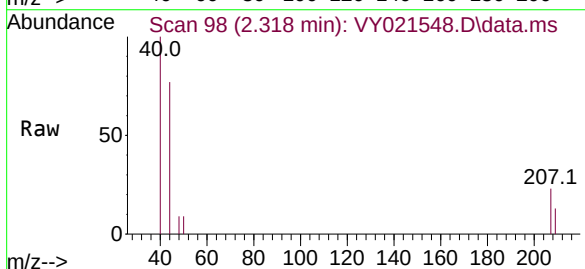
Instrument :
MSVOA_Y
ClientSampleId :

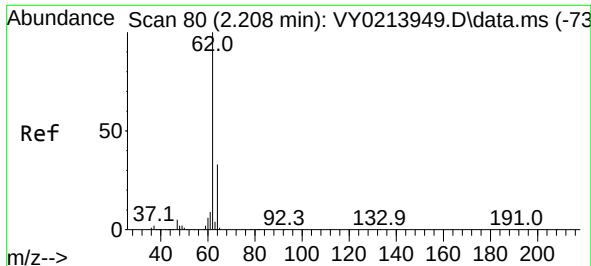
Tgt Ion:168 Resp: 133
Ion Ratio Lower Upper
168 100
99 61.7 46.0 69.0



#3
Chloromethane
Concen: 22.665 ug/l
RT: 2.318 min Scan# 98
Delta R.T. 0.244 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 50 Resp: 39
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

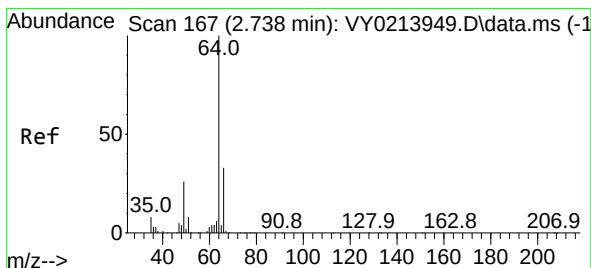
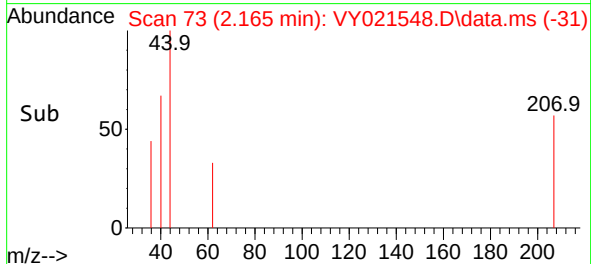
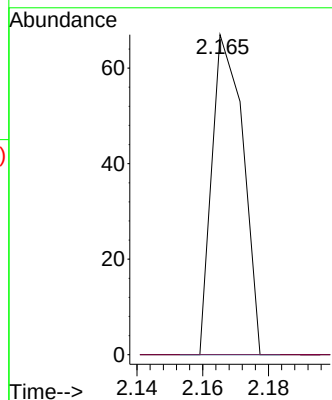
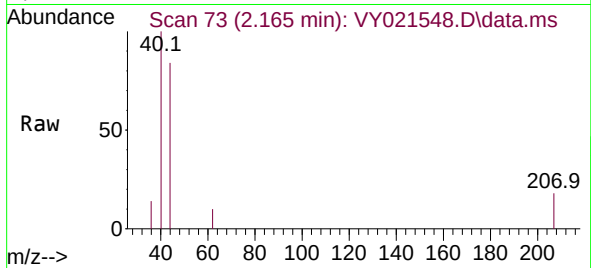




#4
 Vinyl Chloride
 Concen: 23.399 ug/l
 RT: 2.165 min Scan# 71
 Delta R.T. -0.043 min
 Lab File: VY021548.D
 Acq: 17 Mar 2025 14:03

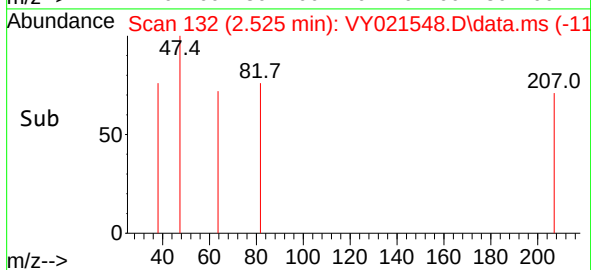
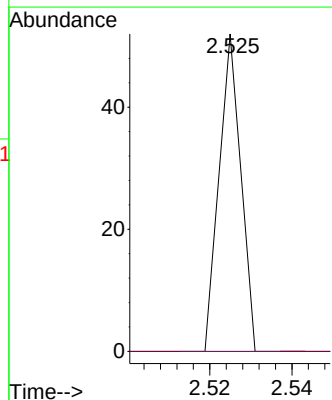
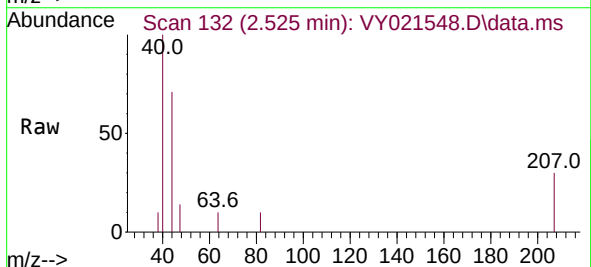
Instrument :
 MSVOA_Y
 ClientSampleId :

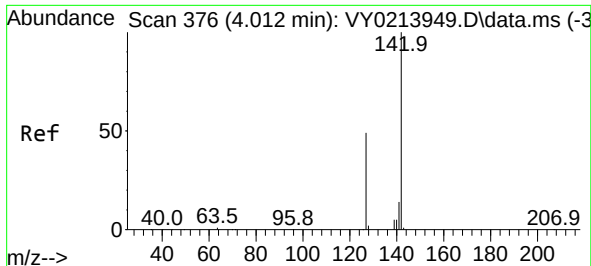
Tgt Ion: 62 Resp: 44
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.2#



#6
 Chloroethane
 Concen: 15.290 ug/l
 RT: 2.525 min Scan# 132
 Delta R.T. -0.213 min
 Lab File: VY021548.D
 Acq: 17 Mar 2025 14:03

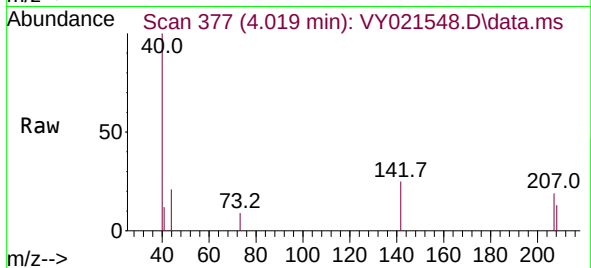
Tgt Ion: 64 Resp: 19
 Ion Ratio Lower Upper
 64 100
 66 0.0 26.7 40.1#



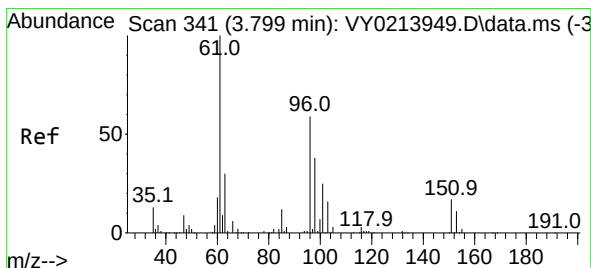
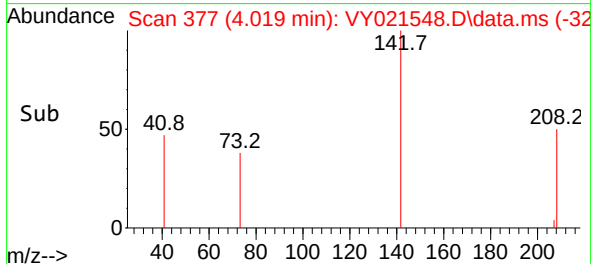
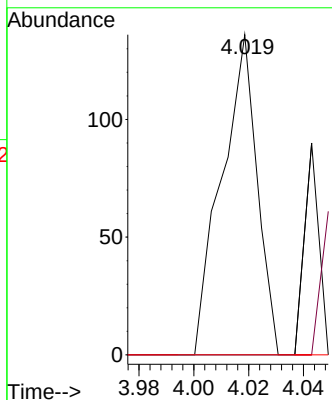


#10
Methyl Iodide
Concen: 80.092 ug/l
RT: 4.019 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

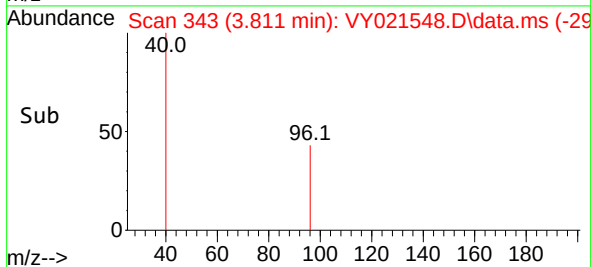
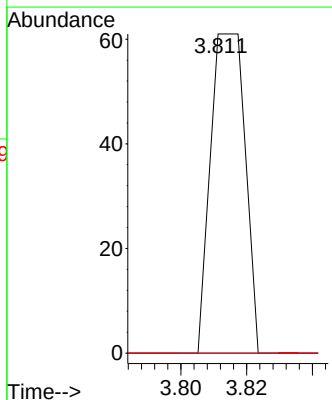
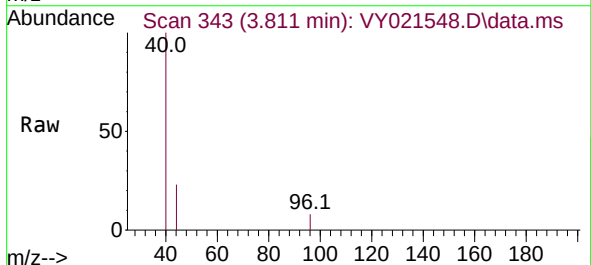


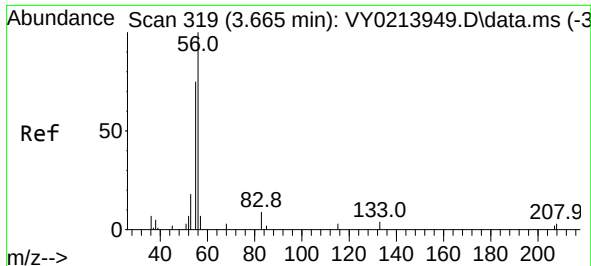
Tgt Ion:142 Resp: 122
Ion Ratio Lower Upper
142 100
127 0.0 39.1 58.7#
141 0.0 11.8 17.6#



#12
1,1-Dichloroethene
Concen: 32.938 ug/l
RT: 3.811 min Scan# 343
Delta R.T. 0.012 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

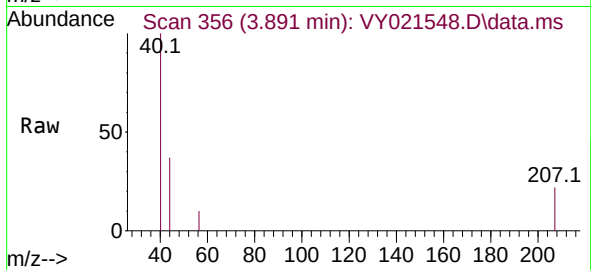
Tgt Ion: 96 Resp: 45
Ion Ratio Lower Upper
96 100
61 0.0 135.2 202.8#
98 0.0 51.4 77.2#



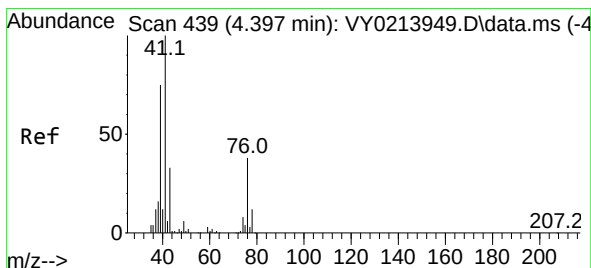
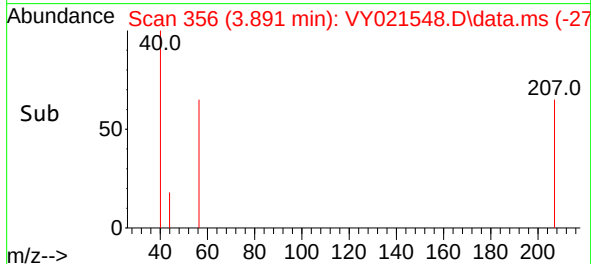
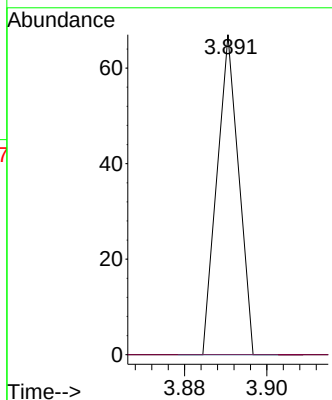


#13
Acrolein
Concen: 349.647 ug/l
RT: 3.891 min Scan# 319
Delta R.T. 0.226 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

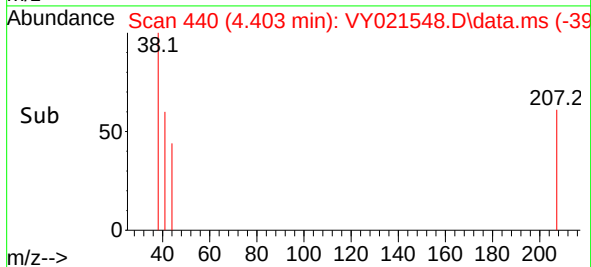
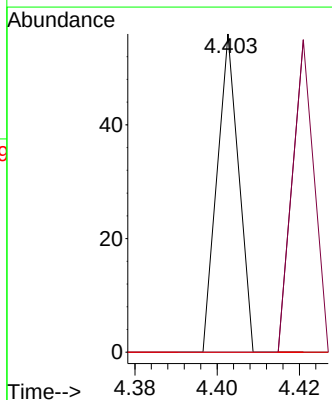
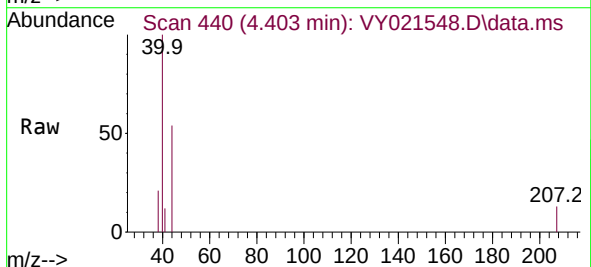


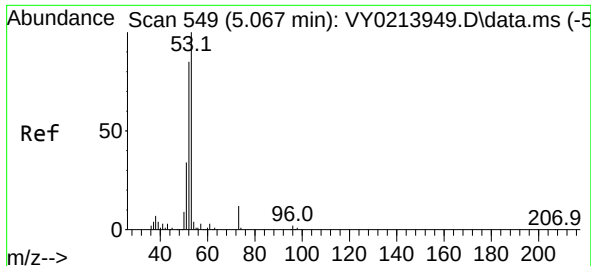
Tgt Ion: 56 Resp: 25
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#



#14
Allyl chloride
Concen: 9.059 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.006 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 41 Resp: 20
Ion Ratio Lower Upper
41 100
39 100.0 59.3 88.9#
76 0.0 29.8 44.8#





#15

Acrylonitrile

Concen: 155.023 ug/l

RT: 5.104 min Scan# 51

Delta R.T. 0.037 min

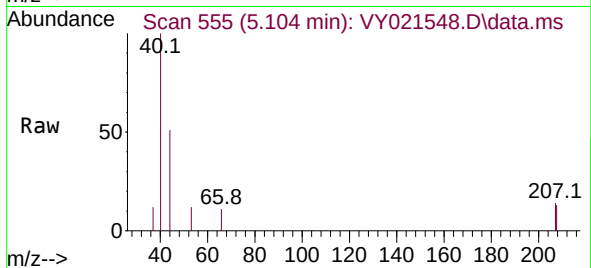
Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Instrument :

MSVOA_Y

ClientSampleId :



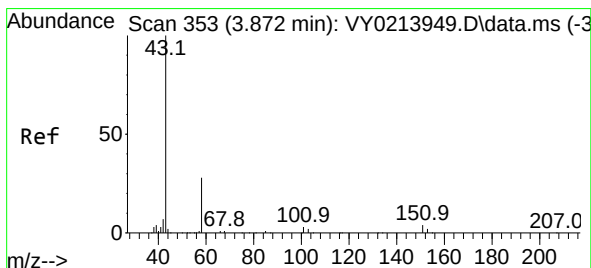
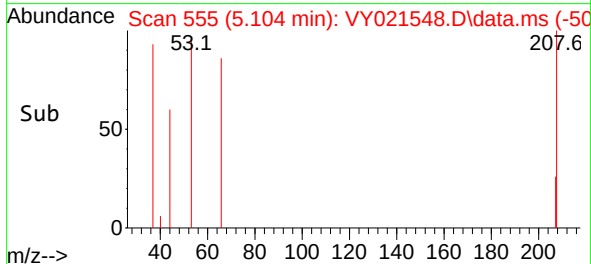
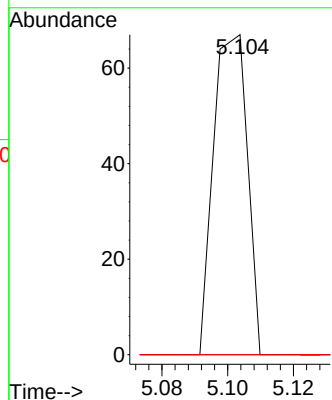
Tgt Ion: 53 Resp: 48

Ion Ratio Lower Upper

53 100

52 0.0 66.3 99.5#

51 0.0 30.3 45.5#



#16

Acetone

Concen: 94.585 ug/l

RT: 3.665 min Scan# 319

Delta R.T. -0.207 min

Lab File: VY021548.D

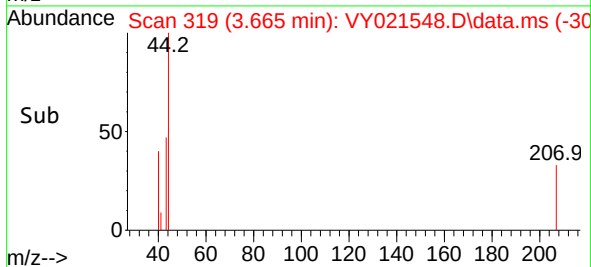
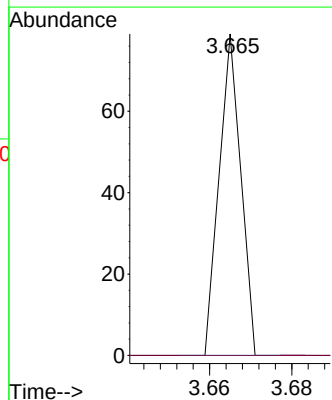
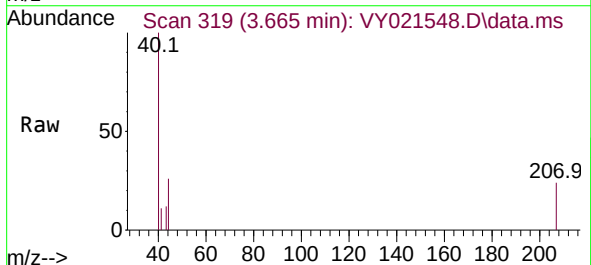
Acq: 17 Mar 2025 14:03

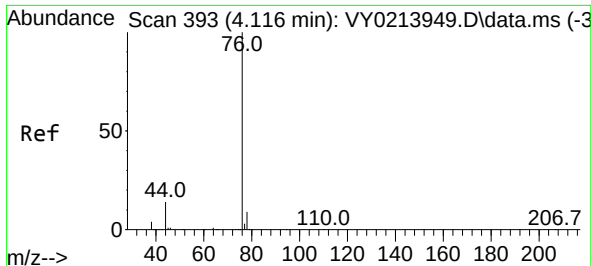
Tgt Ion: 43 Resp: 29

Ion Ratio Lower Upper

43 100

58 0.0 22.1 33.1#

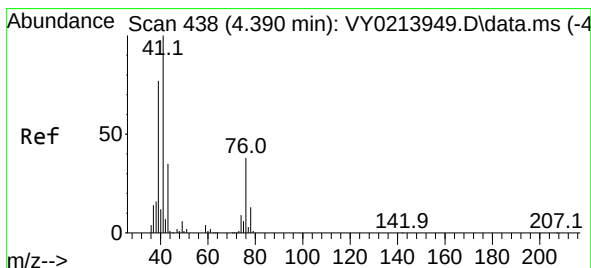
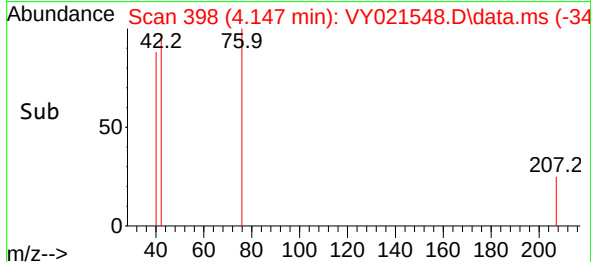
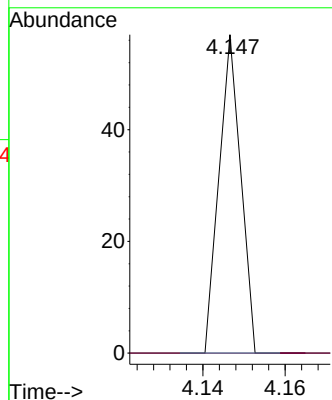
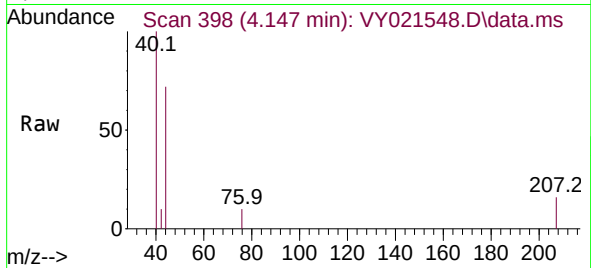




#17
Carbon Disulfide
Concen: 4.905 ug/l
RT: 4.147 min Scan# 393
Delta R.T. 0.030 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

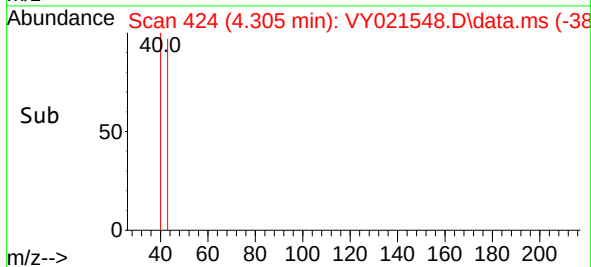
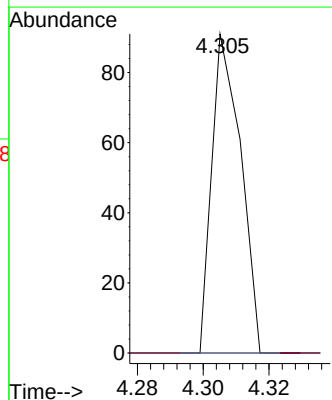
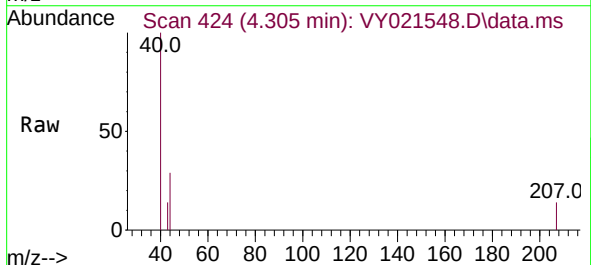
Instrument :
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ClientSampleId :

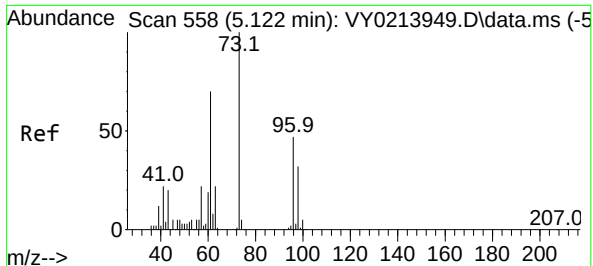
Tgt Ion: 76 Resp: 21
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 82.317 ug/l
RT: 4.305 min Scan# 424
Delta R.T. -0.085 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#





#19

Methyl tert-butyl Ether

Concen: 6.353 ug/l

RT: 5.238 min Scan# 51

Delta R.T. 0.116 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Instrument :

MSVOA_Y

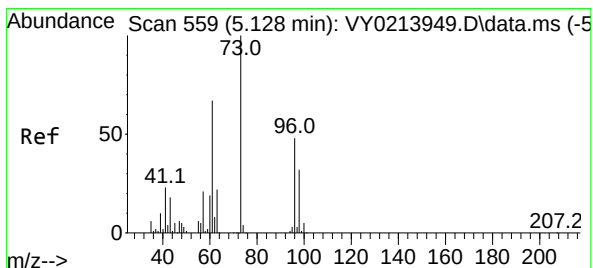
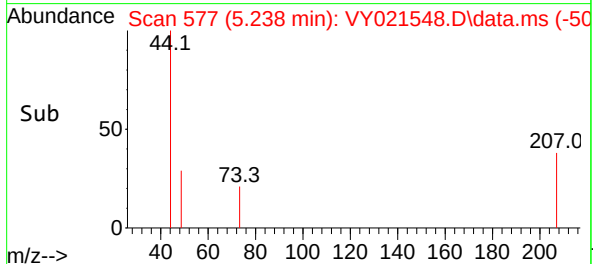
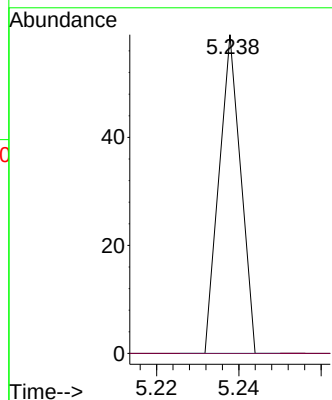
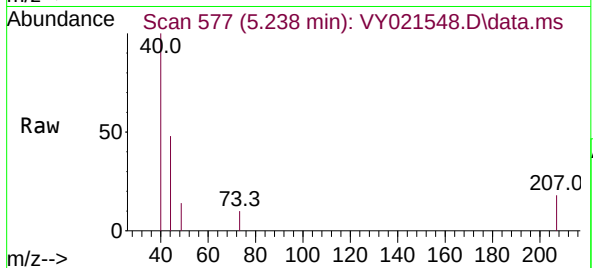
ClientSampleId :

Tgt Ion: 73 Resp: 22

Ion Ratio Lower Upper

73 100

57 0.0 17.9 26.9#



#21

trans-1,2-Dichloroethene

Concen: 13.725 ug/l

RT: 5.152 min Scan# 563

Delta R.T. 0.024 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

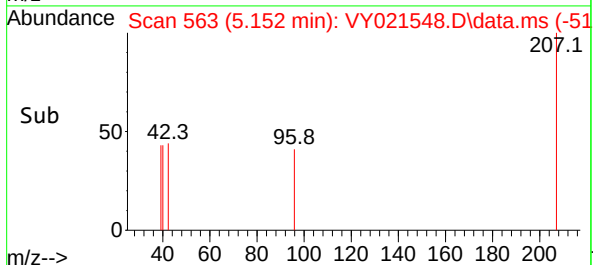
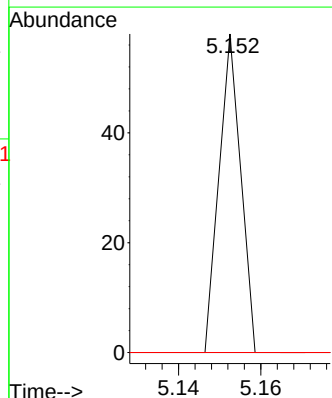
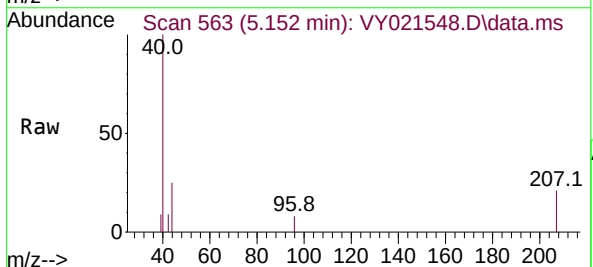
Tgt Ion: 96 Resp: 21

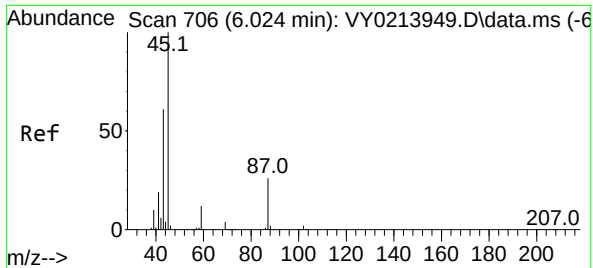
Ion Ratio Lower Upper

96 100

61 0.0 111.5 167.3#

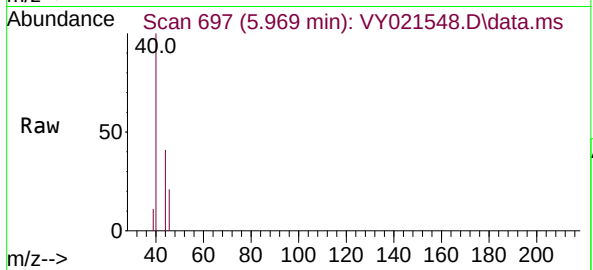
98 0.0 53.8 80.8#



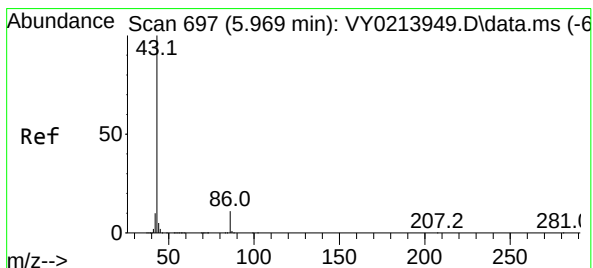
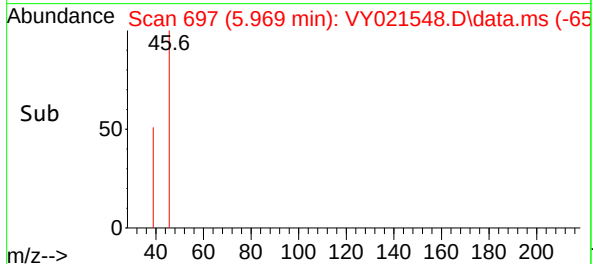
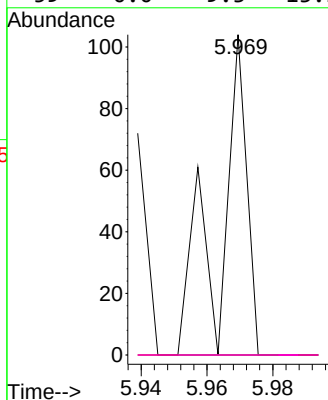


#22
Diisopropyl ether
Concen: 12.610 ug/l
RT: 5.969 min Scan# 61
Delta R.T. -0.055 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

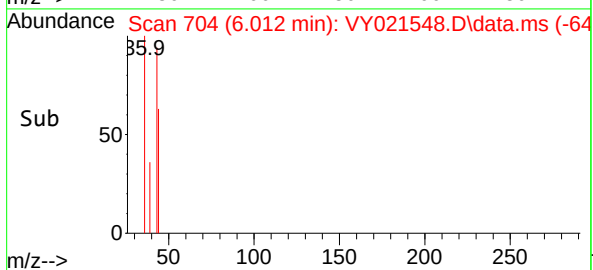
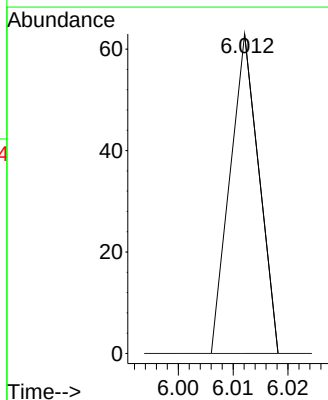
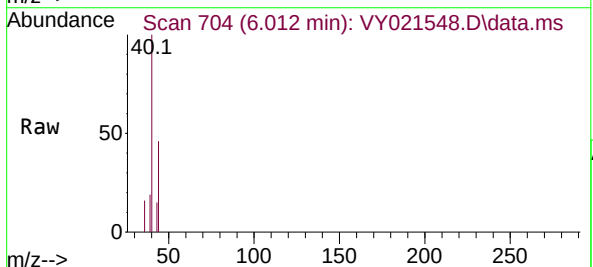


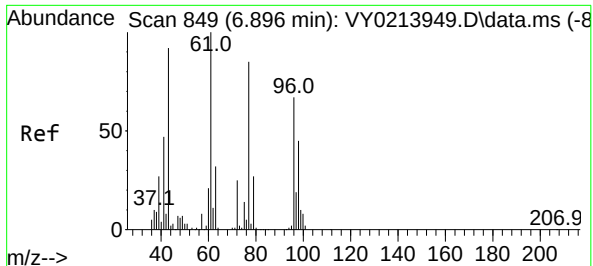
Tgt Ion:	45	Resp:	60
Ion	Ratio	Lower	Upper
45	100		
43	0.0	48.7	73.1#
87	0.0	21.5	32.3#
59	0.0	9.3	13.9#



#23
Vinyl Acetate
Concen: 8.470 ug/l
RT: 6.012 min Scan# 704
Delta R.T. 0.043 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion:	43	Resp:	23
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.5	12.7#





#25

2-Butanone

Concen: 47.156 ug/l

RT: 6.920 min Scan# 81

Delta R.T. 0.024 min

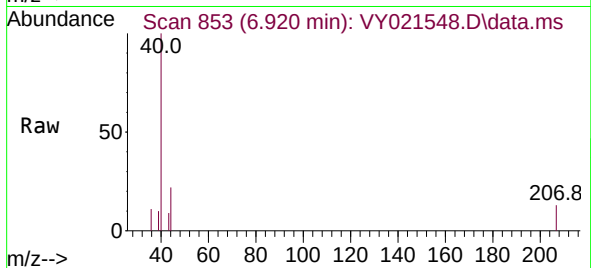
Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Instrument :

MSVOA_Y

ClientSampleId :

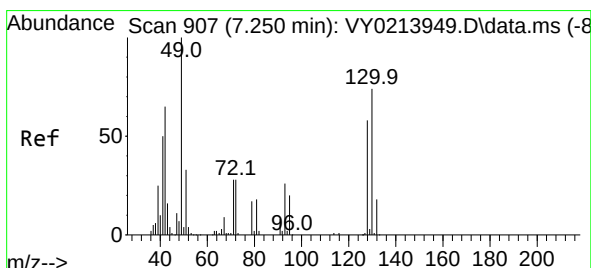
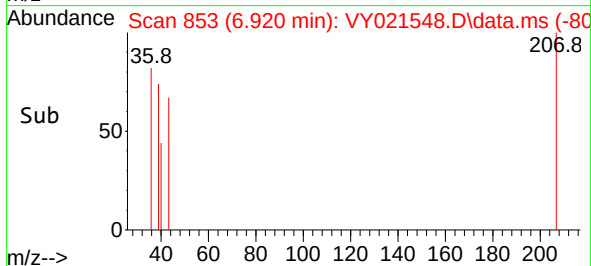
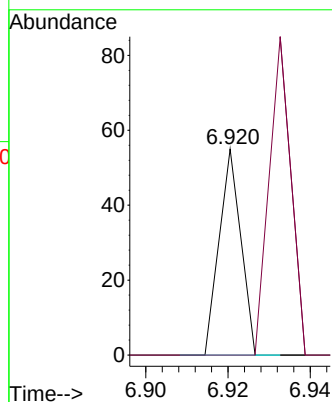


Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#28

Bromochloromethane

Concen: 38.222 ug/l

RT: 7.183 min Scan# 896

Delta R.T. -0.067 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

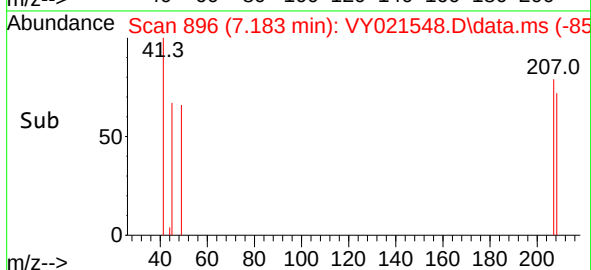
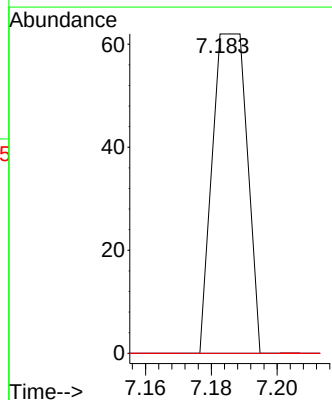
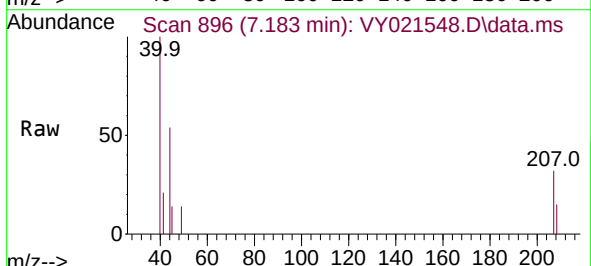
Tgt Ion: 49 Resp: 45

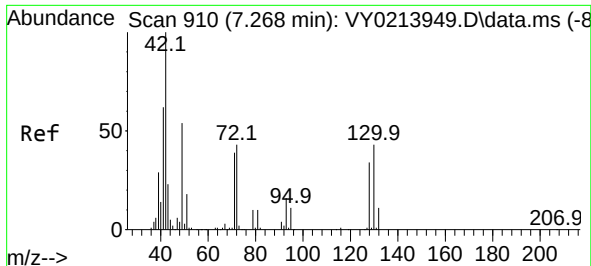
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 59.6 89.4#





#29

Tetrahydrofuran

Concen: 87.842 ug/l

RT: 7.219 min Scan# 90

Delta R.T. -0.049 min

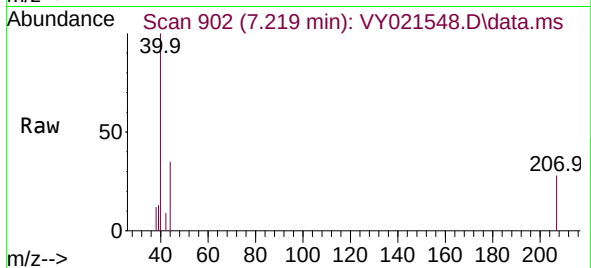
Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

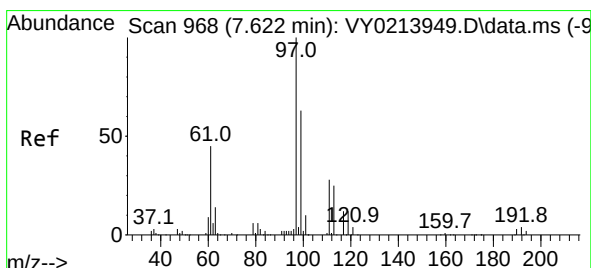
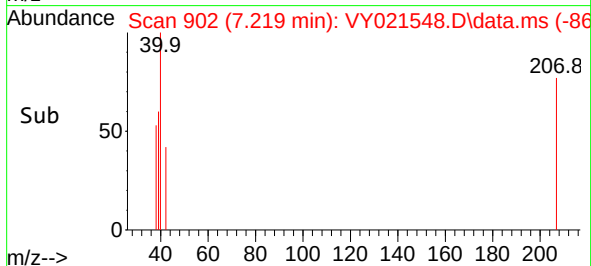
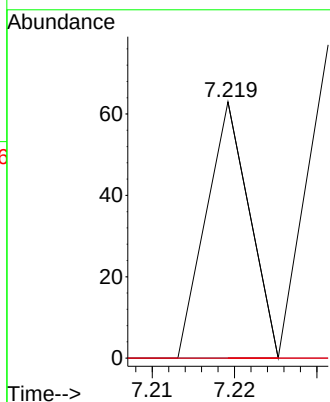
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	23
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.8	52.2#
71	0.0	32.6	48.8#



#32

1,1,1-Trichloroethane

Concen: 9.738 ug/l

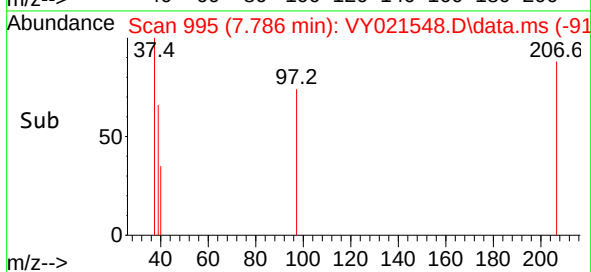
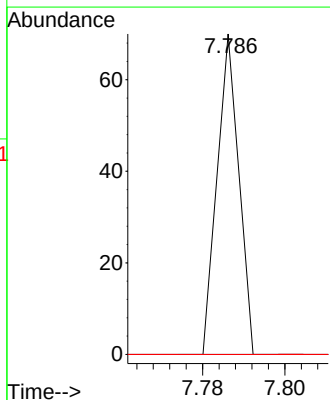
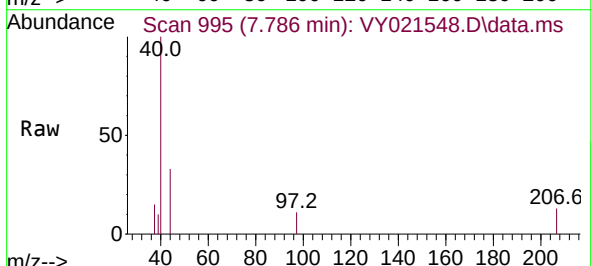
RT: 7.786 min Scan# 995

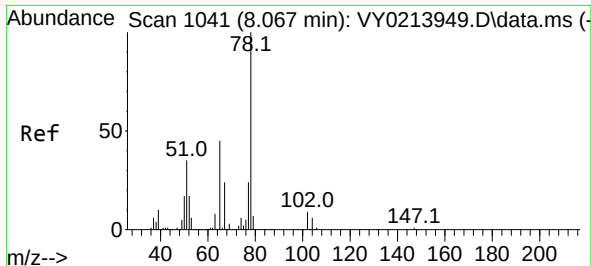
Delta R.T. 0.165 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Tgt Ion:	97	Resp:	26
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	0.0	35.7	53.5#





#33

1,2-Dichloroethane-d4

Concen: 104.572 ug/l

RT: 8.073 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Instrument :

MSVOA_Y

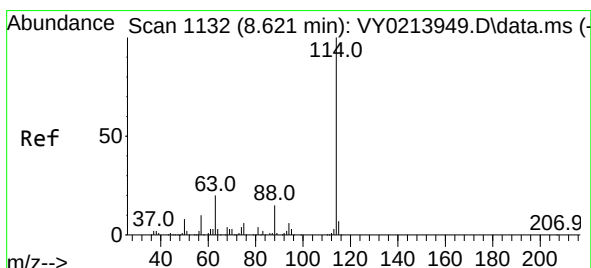
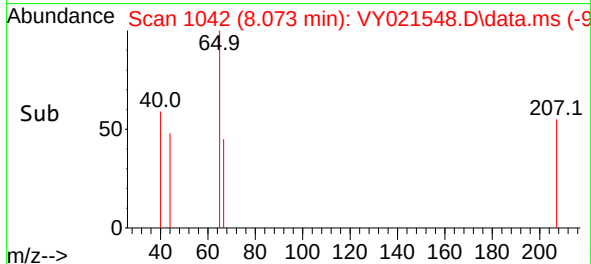
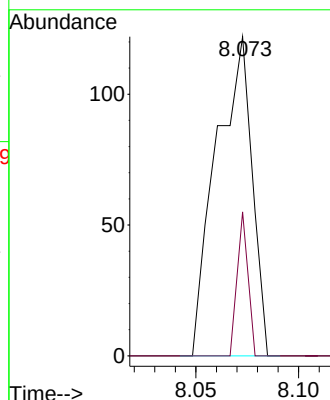
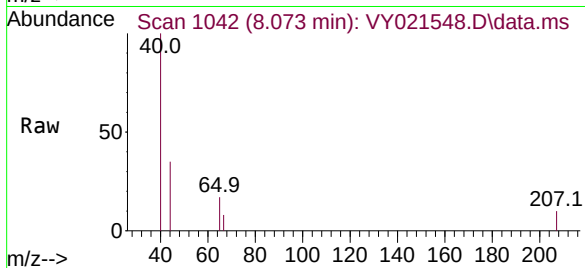
ClientSampleId :

Tgt Ion: 65 Resp: 147

Ion Ratio Lower Upper

65 100

67 13.6 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.652 min Scan# 1137

Delta R.T. 0.030 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

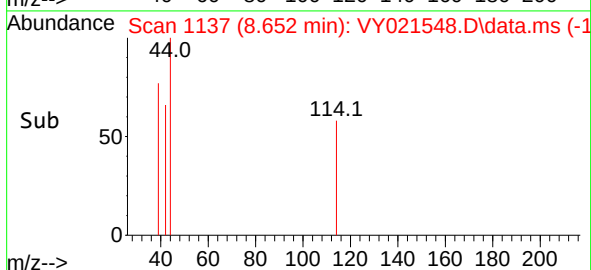
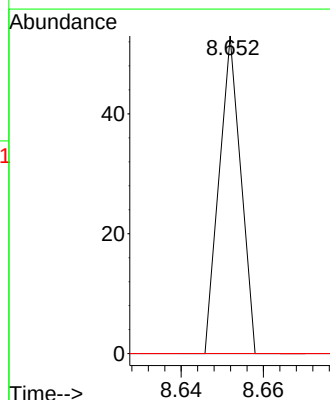
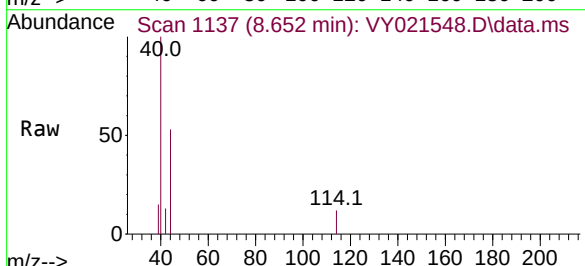
Tgt Ion: 114 Resp: 19

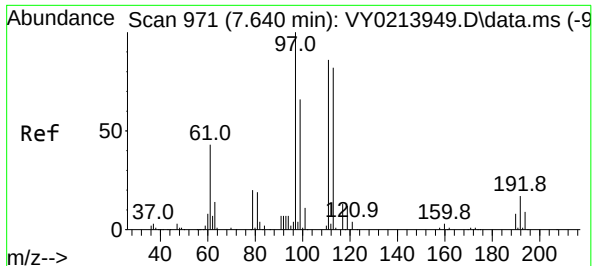
Ion Ratio Lower Upper

114 100

63 0.0 0.0 40.8

88 0.0 0.0 30.8





#35

Dibromofluoromethane

Concen: 400.353 ug/l

RT: 7.646 min Scan# 91

Delta R.T. 0.006 min

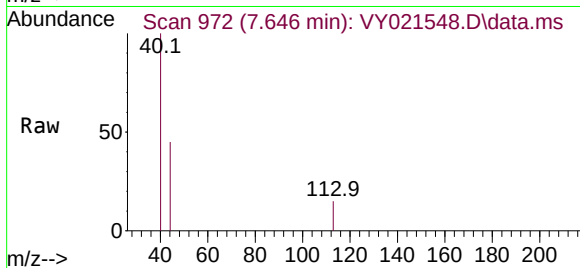
Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

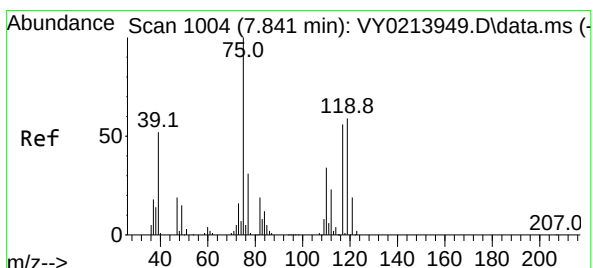
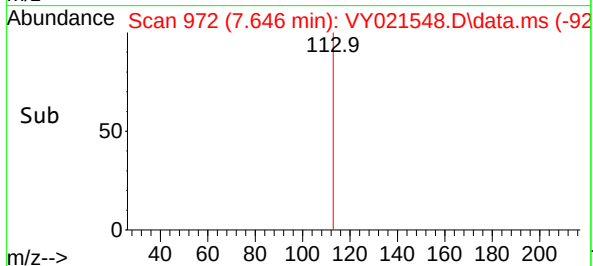
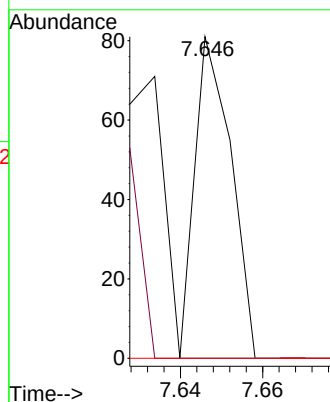
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	113	Resp:	50
Ion	Ratio	Lower	Upper
113	100		
111	0.0	82.0	123.0#
192	0.0	15.9	23.9#



#36

1,1-Dichloropropene

Concen: 138.113 ug/l

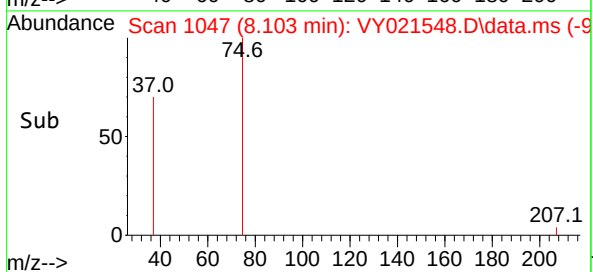
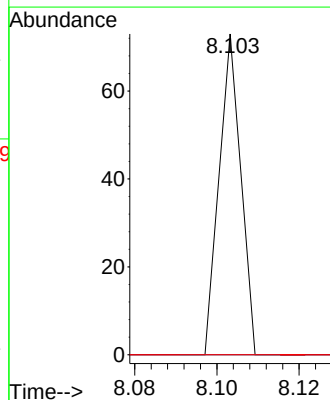
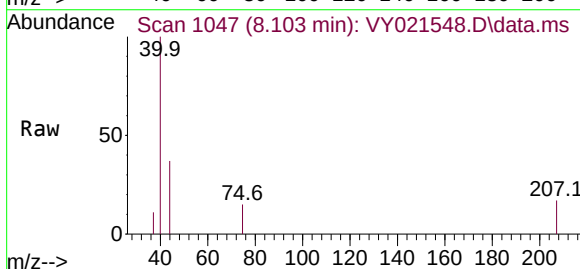
RT: 8.103 min Scan# 1047

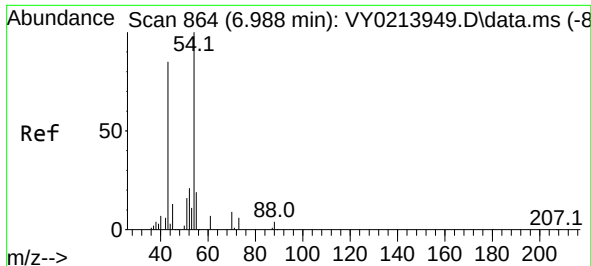
Delta R.T. 0.262 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

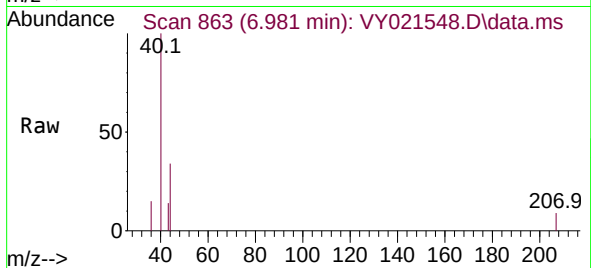
Tgt Ion:	75	Resp:	27
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.3	51.7#
77	0.0	25.4	38.2#



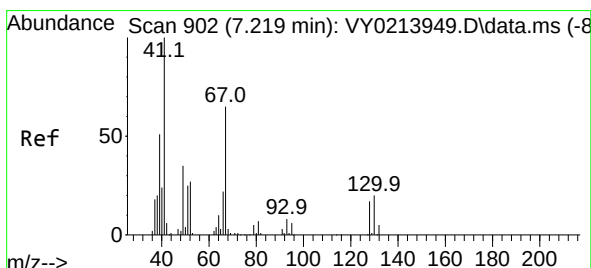
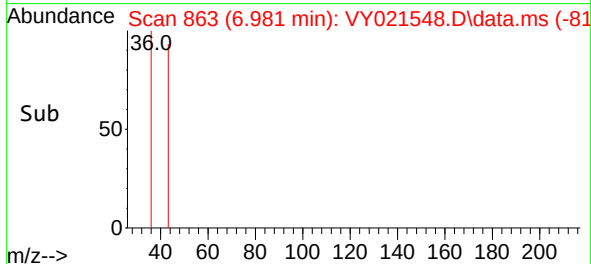
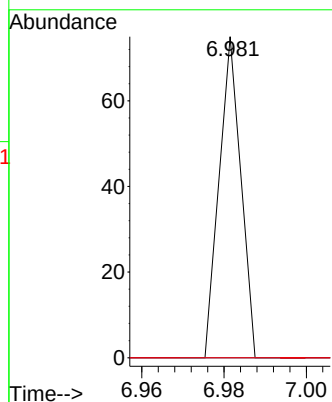


#37
Ethyl Acetate
Concen: 312.482 ug/l
RT: 6.981 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

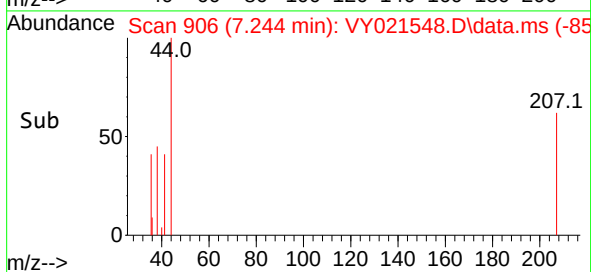
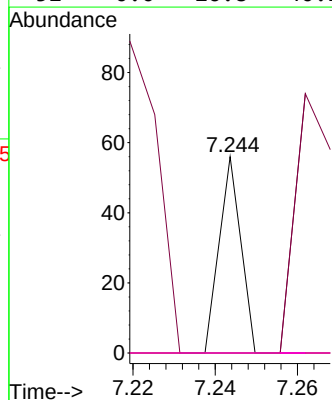
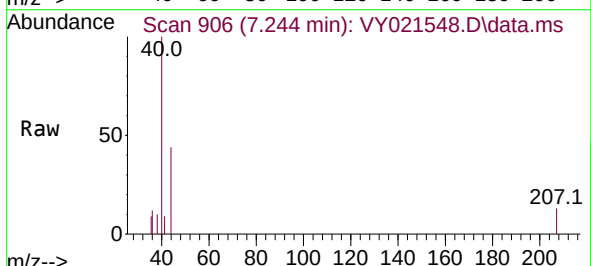


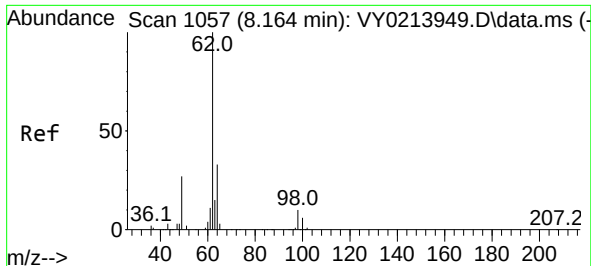
Tgt Ion: 43 Resp: 27
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.0#
70 0.0 8.2 12.2#



#41
Methacrylonitrile
Concen: 425.102 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.024 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 41 Resp: 20
Ion Ratio Lower Upper
41 100
39 365.0 35.0 52.6#
67 0.0 61.2 91.8#
52 0.0 26.8 40.2#





#42

1,2-Dichloroethane

Concen: 136.558 ug/l

RT: 8.152 min Scan# 1055

Delta R.T. -0.012 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

Instrument :

MSVOA_Y

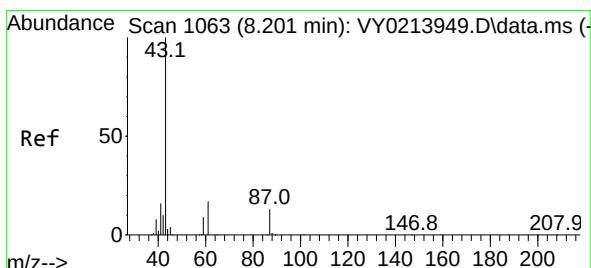
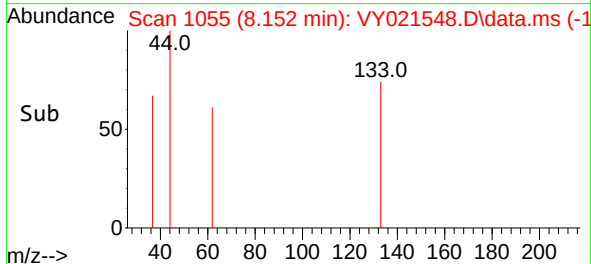
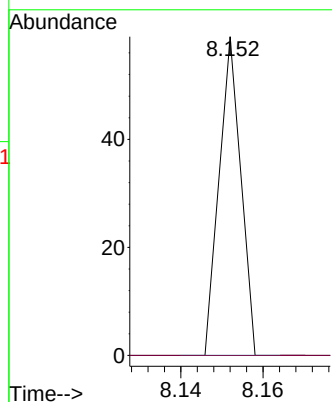
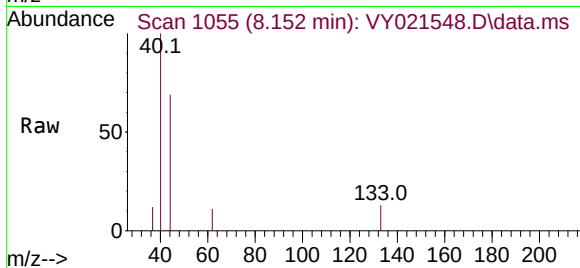
ClientSampleId :

Tgt Ion: 62 Resp: 22

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 119.237 ug/l

RT: 8.146 min Scan# 1054

Delta R.T. -0.055 min

Lab File: VY021548.D

Acq: 17 Mar 2025 14:03

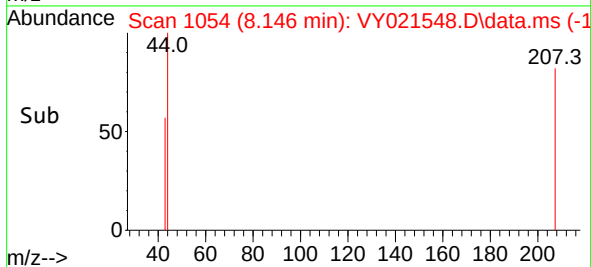
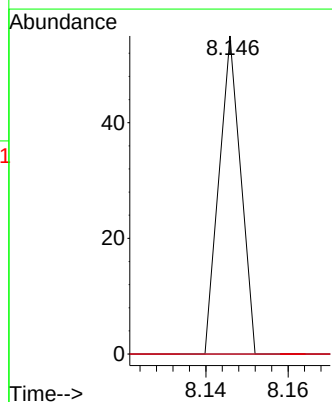
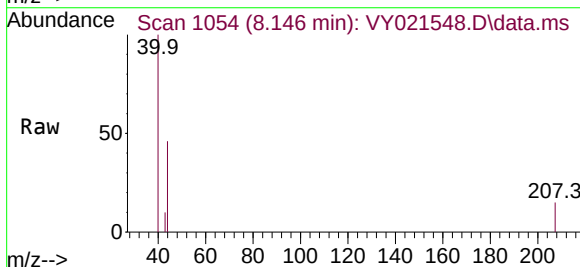
Tgt Ion: 43 Resp: 20

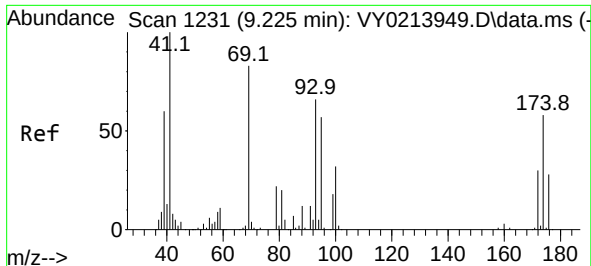
Ion Ratio Lower Upper

43 100

61 0.0 23.4 35.0#

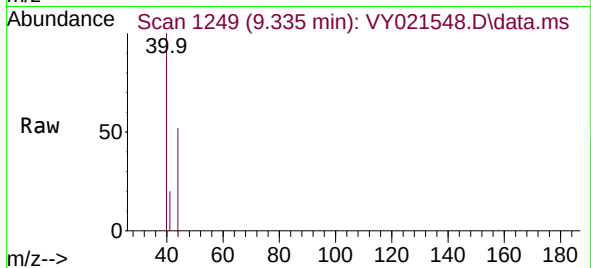
87 0.0 10.5 15.7#



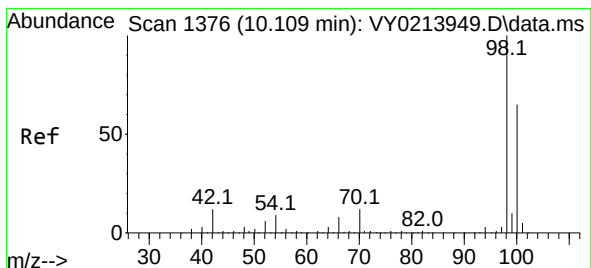
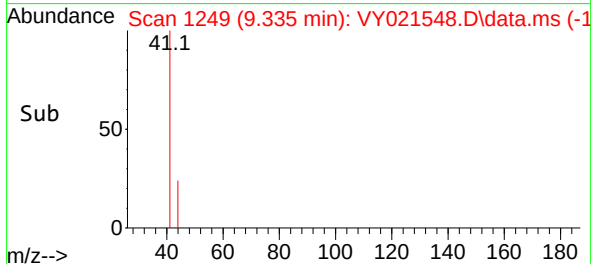
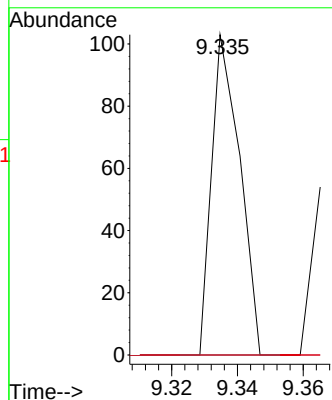


#48
Methyl methacrylate
Concen: 791.978 ug/l
RT: 9.335 min Scan# 1249
Delta R.T. 0.110 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

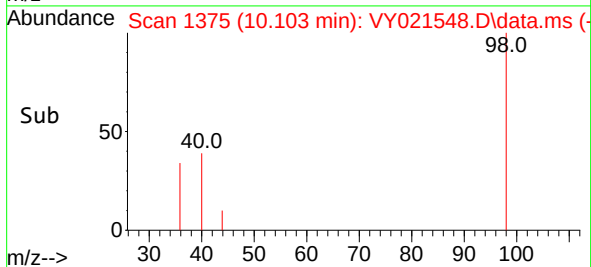
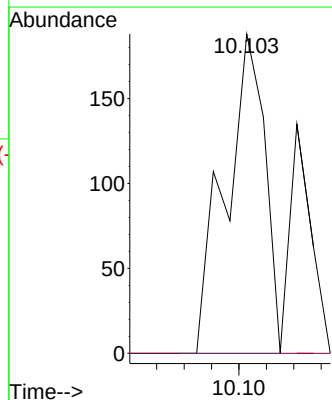
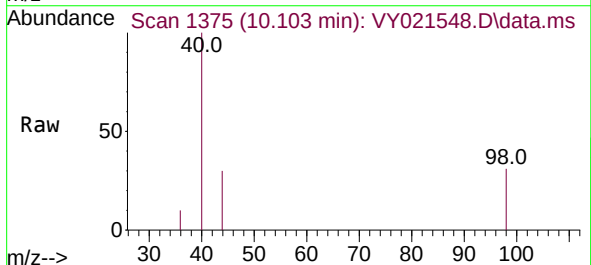


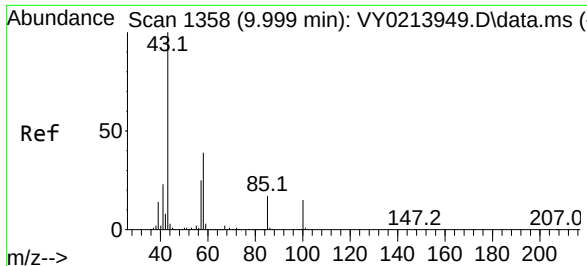
Tgt Ion: 41 Resp: 61
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.8#
39 0.0 46.4 69.6#



#50
Toluene-d8
Concen: 395.455 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

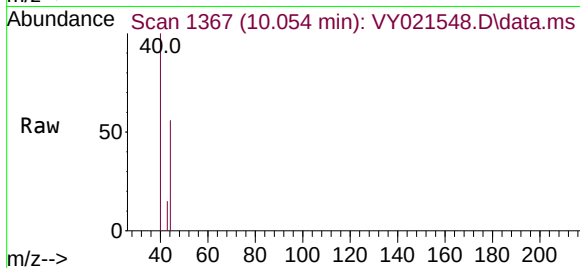
Tgt Ion: 98 Resp: 187
Ion Ratio Lower Upper
98 100
100 0.0 52.1 78.1#



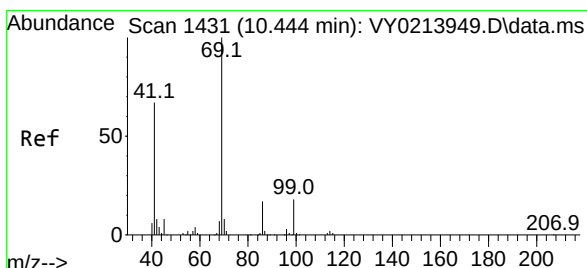
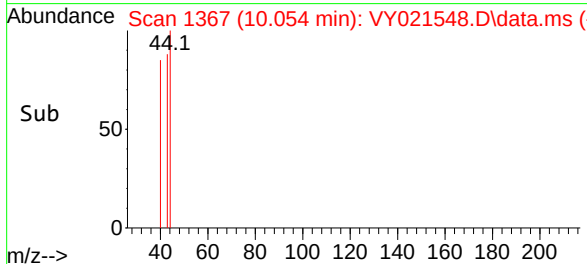
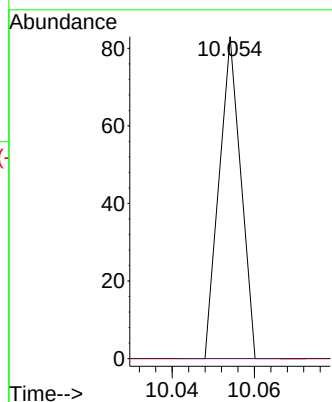


#51
4-Methyl-2-Pentanone
Concen: 346.640 ug/l
RT: 10.054 min Scan# 11
Delta R.T. 0.055 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

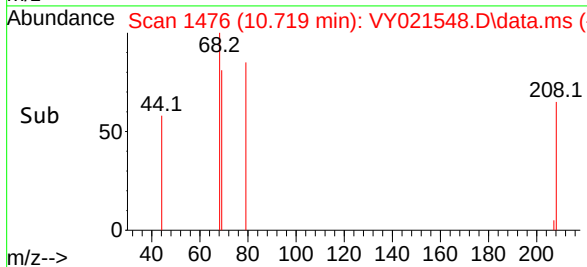
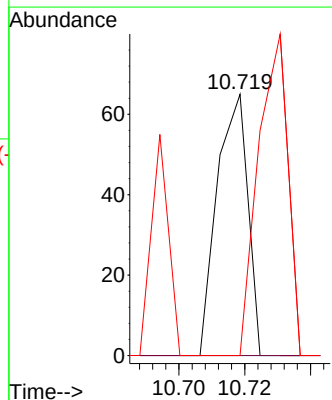
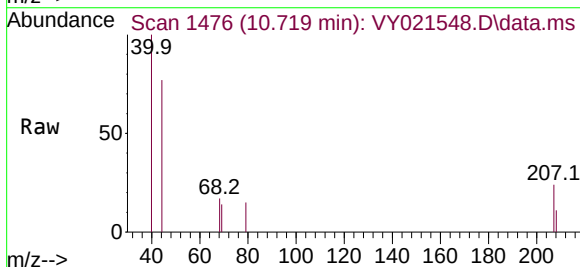


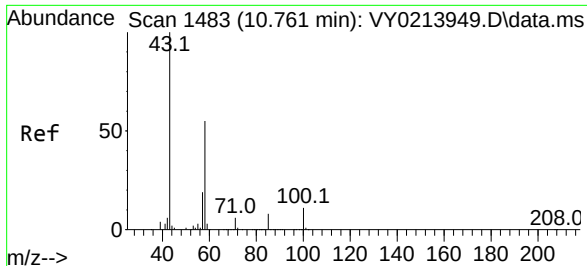
Tgt Ion: 43 Resp: 30
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#56
Ethyl methacrylate
Concen: 330.123 ug/l
RT: 10.719 min Scan# 1476
Delta R.T. 0.274 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 69 Resp: 42
Ion Ratio Lower Upper
69 100
41 0.0 53.3 79.9#
39 119.0 31.0 46.6#

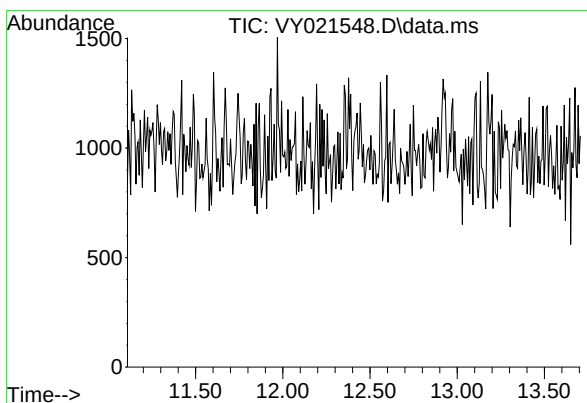
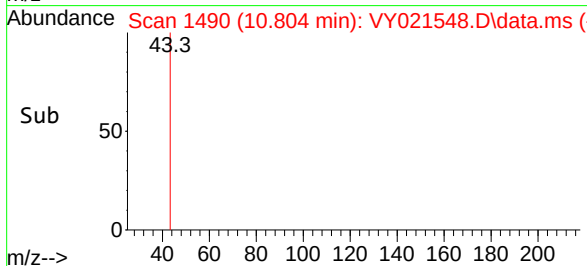
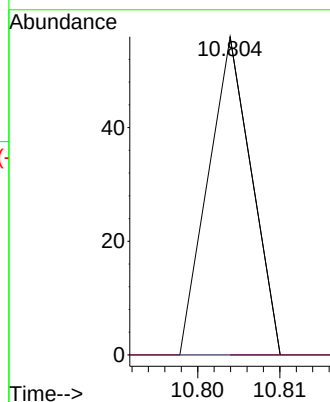
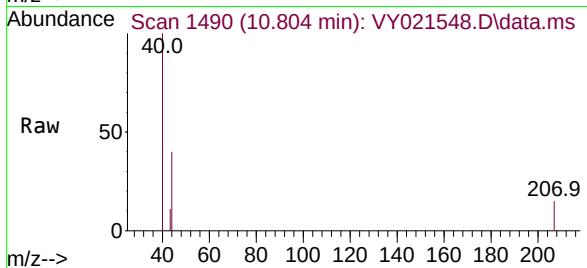




#59
2-Hexanone
Concen: 349.493 ug/l
RT: 10.804 min Scan# 14
Delta R.T. 0.043 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

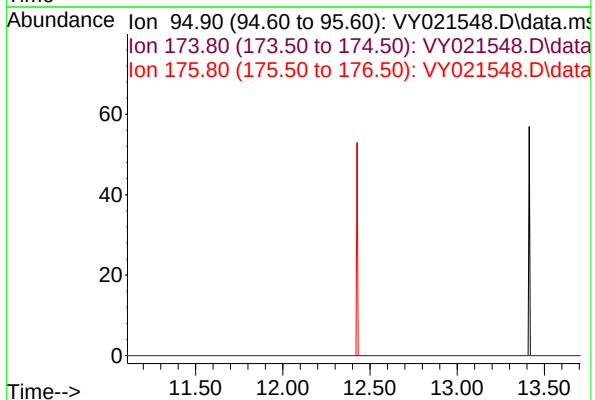
Tgt Ion: 43 Resp: 20
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

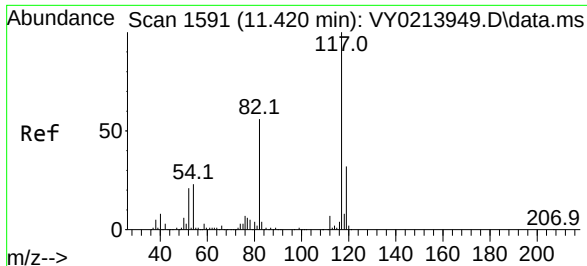


#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.41 min

Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 95
Sig Exp Ratio
95 100
174 82.5
176 80.0

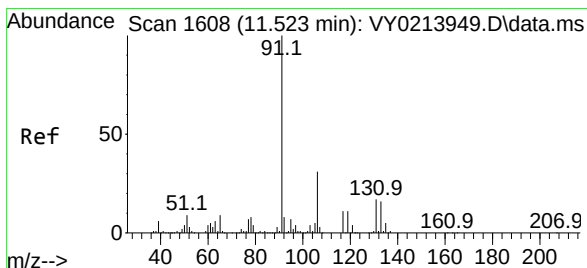
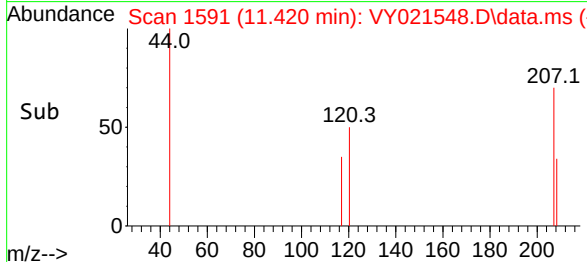
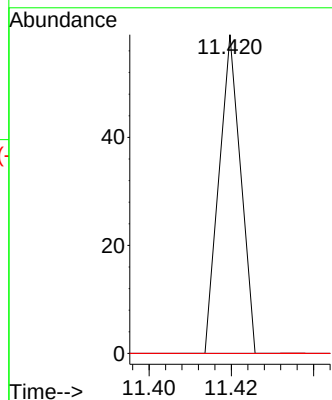
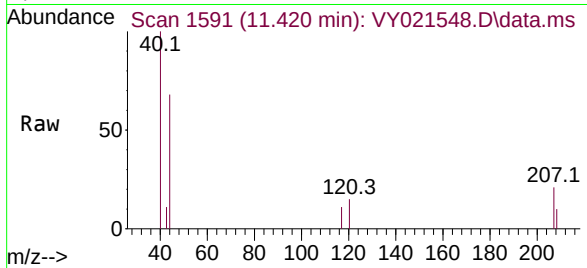




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

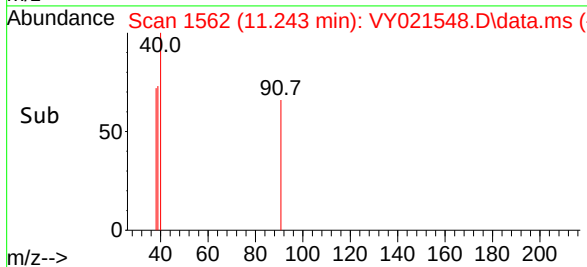
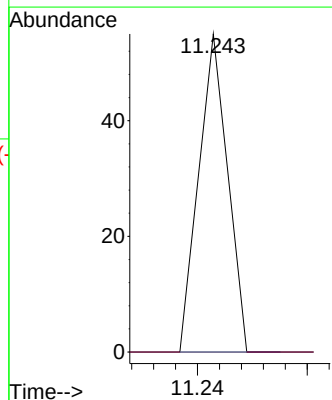
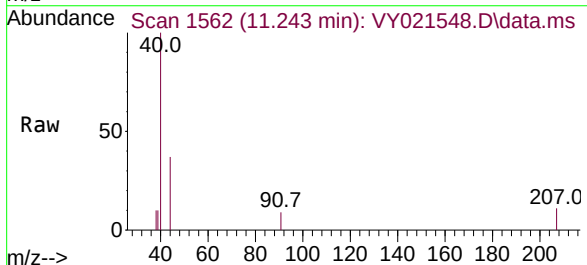
Instrument :
MSVOA_Y
ClientSampleId :

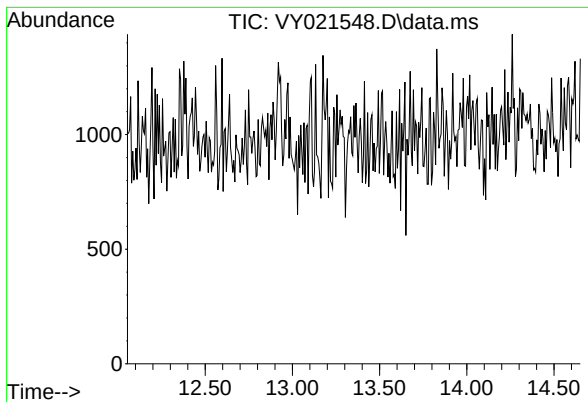
Tgt Ion:117 Resp: 22
Ion Ratio Lower Upper
117 100
82 0.0 44.6 67.0#
119 0.0 25.4 38.0#



#67
Ethyl Benzene
Concen: 21.933 ug/l
RT: 11.243 min Scan# 1562
Delta R.T. -0.280 min
Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Tgt Ion: 91 Resp: 20
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 13.35 min

Lab File: VY021548.D
Acq: 17 Mar 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 152		
Sig	Exp Ratio	
152	100	
115	58.0	
150	173.6	

