

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
 Data File : VY021483.D
 Acq On : 11 Mar 2025 13:58
 Operator : SY/MD
 Sample : Q1515-02
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 12 01:24:52 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)

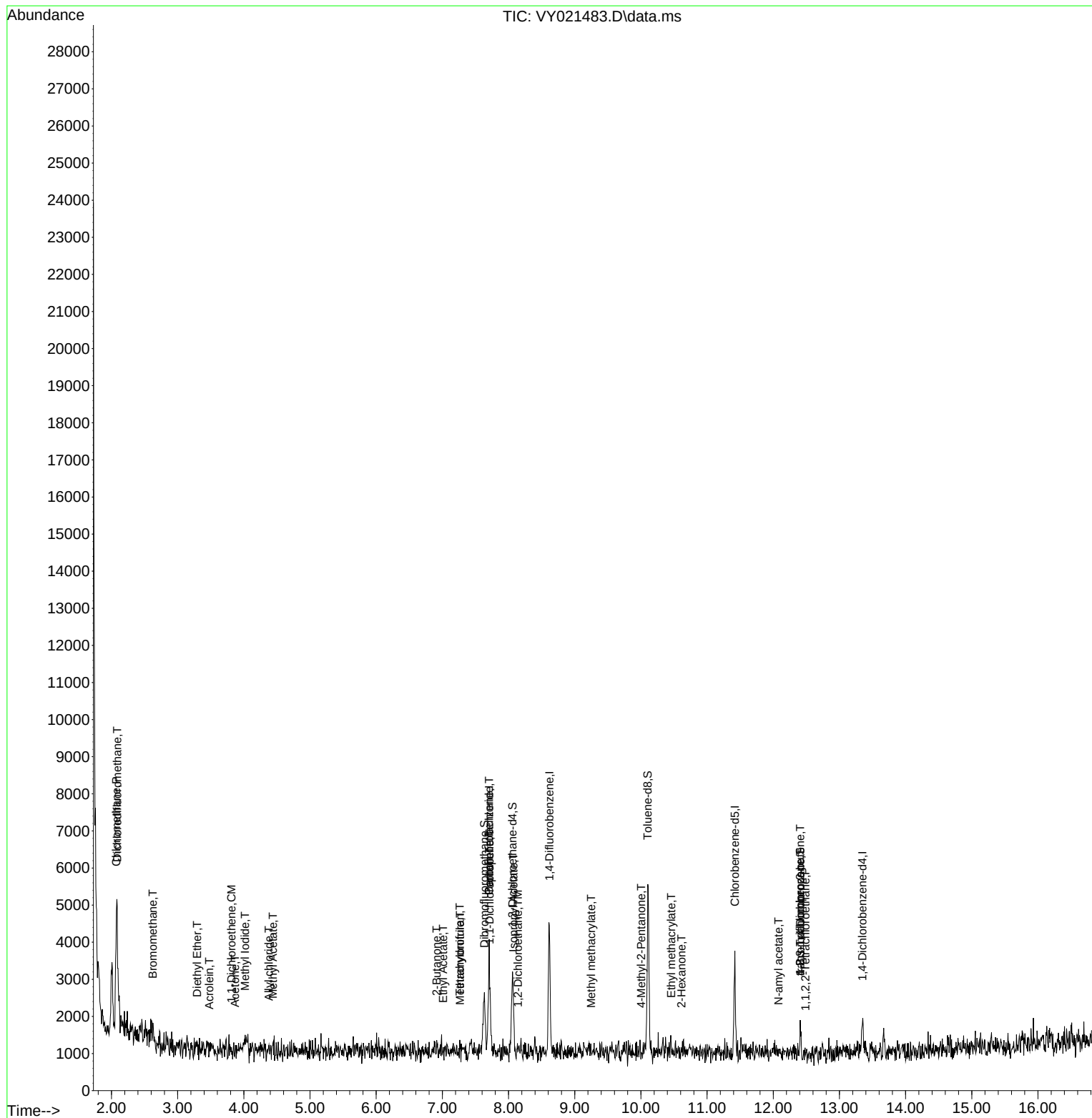
Internal Standards						
1) Pentafluorobenzene	7.707	168	2245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	3265	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1479	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	1620	68.273	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 136.540%	
35) Dibromofluoromethane	7.634	113	1229	57.266	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.540%	
50) Toluene-d8	10.103	98	3193	39.294	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 78.580%	
62) 4-Bromofluorobenzene	12.408	95	330	11.939	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 23.880%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.086	85	26	1.262	ug/l #	1
3) Chloromethane	2.074	50	334	11.499	ug/l #	56
5) Bromomethane	2.623	94	237	10.331	ug/l	82
8) Diethyl Ether	3.293	74	22	1.792	ug/l #	1
10) Methyl Iodide	4.019	142	356	13.846	ug/l #	76
11) Tert butyl alcohol	4.848	59	20	Below Cal	#	72
12) 1,1-Dichloroethene	3.812	96	25	1.084	ug/l #	1
13) Acrolein	3.476	56	46	38.114	ug/l #	76
14) Allyl chloride	4.379	41	127	3.408	ug/l #	21
16) Acetone	3.867	43	28	5.410	ug/l #	47
18) Methyl Acetate	4.440	43	21	1.829	ug/l #	51
25) 2-Butanone	6.915	43	56	7.822	ug/l #	48
29) Tetrahydrofuran	7.262	42	21	4.751	ug/l #	33
36) 1,1-Dichloropropene	7.713	75	63	1.875	ug/l #	32
37) Ethyl Acetate	7.012	43	58	3.906	ug/l #	68
38) Carbon Tetrachloride	7.707	117	117	3.028	ug/l #	12
41) Methacrylonitrile	7.268	41	55	6.803	ug/l #	44
42) 1,2-Dichloroethane	8.140	62	57	2.059	ug/l #	75
43) Isopropyl Acetate	8.073	43	42	1.457	ug/l #	2
48) Methyl methacrylate	9.250	41	108	8.160	ug/l #	33
51) 4-Methyl-2-Pentanone	10.006	43	22	1.479	ug/l #	36
56) Ethyl methacrylate	10.457	69	23	1.052	ug/l #	1
59) 2-Hexanone	10.615	43	25	2.542	ug/l #	24
74) N-amyl acetate	12.079	43	24	3.473	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.487	83	22	3.917	ug/l #	26
76) 1,2,3-Trichloropropane	12.408	75	233	57.233	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	233	130.110	ug/l #	9

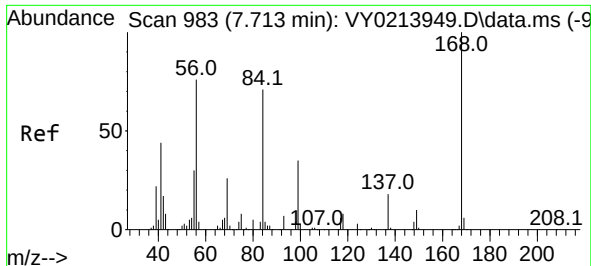
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031125\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
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QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration

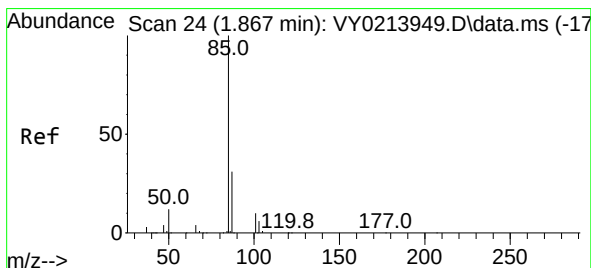
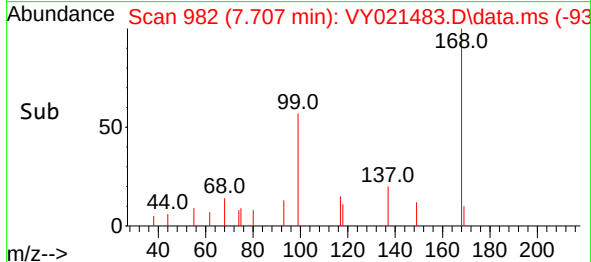
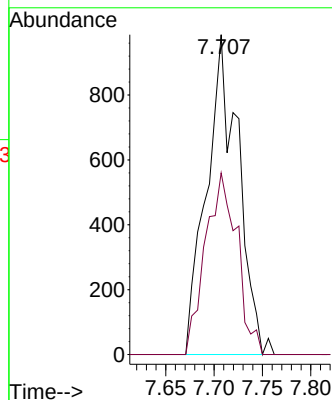
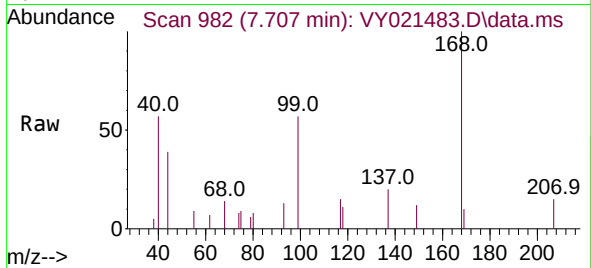




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

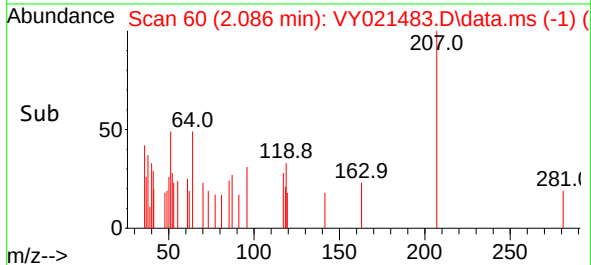
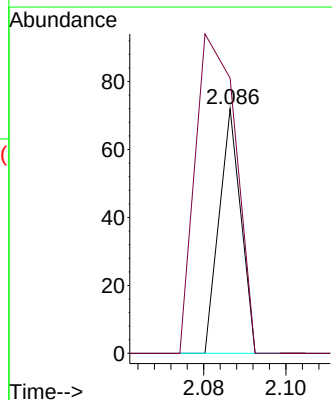
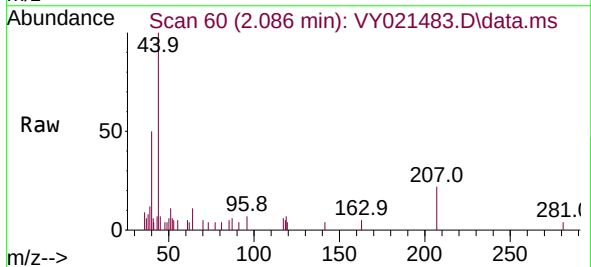
Instrument :
MSVOA_Y
ClientSampleId :

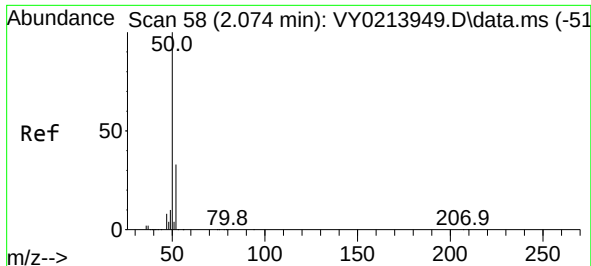
Tgt Ion:168 Resp: 2245
Ion Ratio Lower Upper
168 100
99 56.8 46.0 69.0



#2
Dichlorodifluoromethane
Concen: 1.262 ug/l
RT: 2.086 min Scan# 60
Delta R.T. 0.220 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 85 Resp: 26
Ion Ratio Lower Upper
85 100
87 112.5 15.7 47.0#

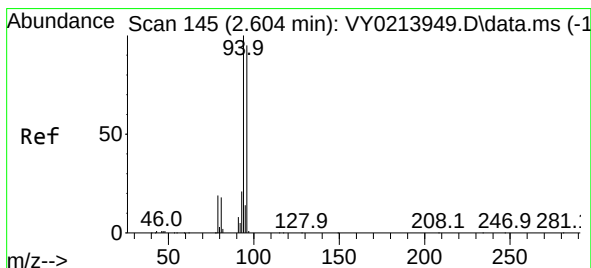
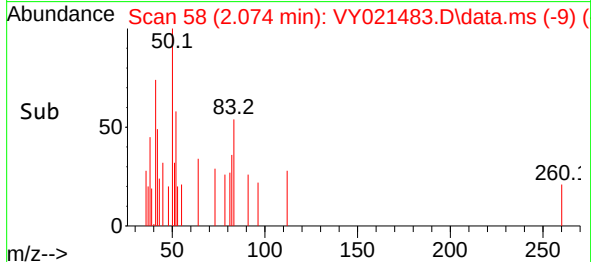
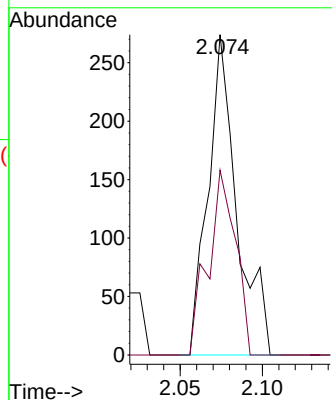
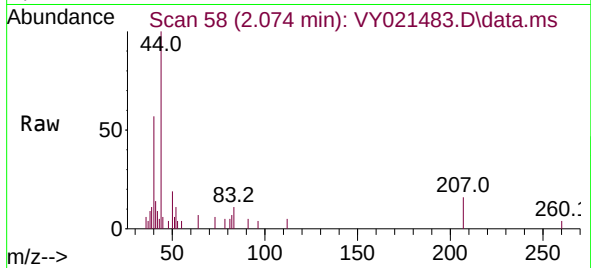




#3
Chloromethane
Concen: 11.499 ug/l
RT: 2.074 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

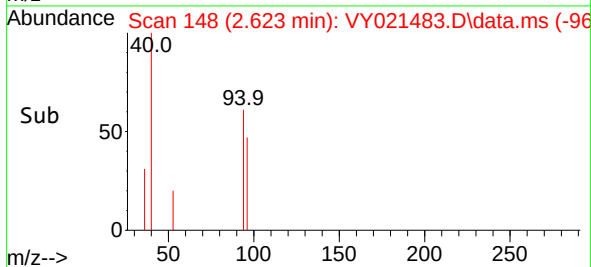
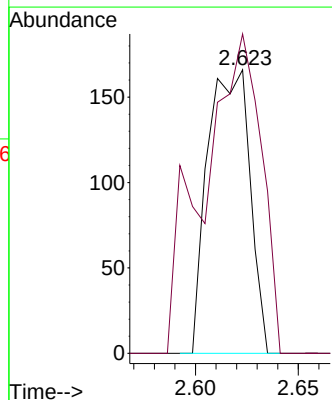
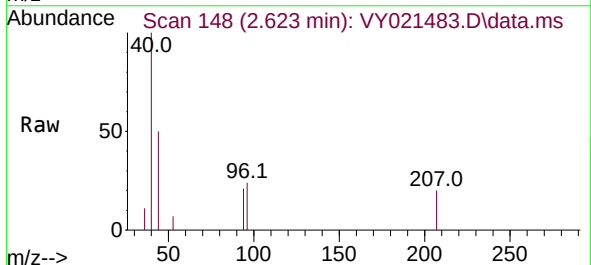
Instrument :
MSVOA_Y
ClientSampleId :

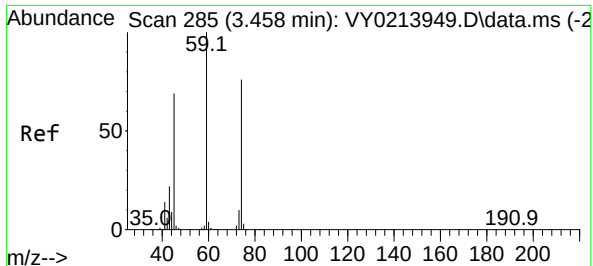
Tgt Ion: 50 Resp: 334
Ion Ratio Lower Upper
50 100
52 57.7 26.2 39.2#



#5
Bromomethane
Concen: 10.331 ug/l
RT: 2.623 min Scan# 148
Delta R.T. 0.019 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 94 Resp: 237
Ion Ratio Lower Upper
94 100
96 112.7 76.3 114.5

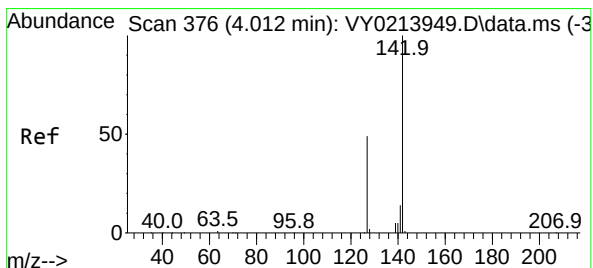
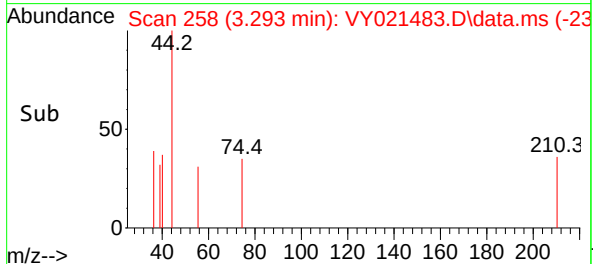
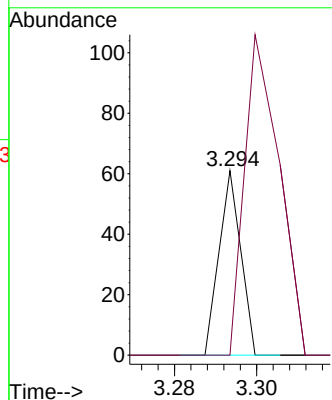
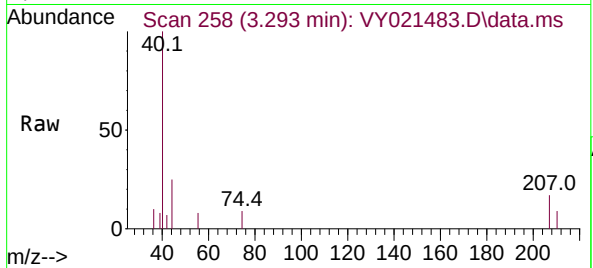




#8
Diethyl Ether
Concen: 1.792 ug/l
RT: 3.293 min Scan# 21
Delta R.T. -0.164 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

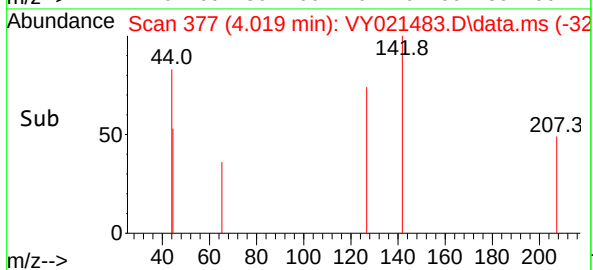
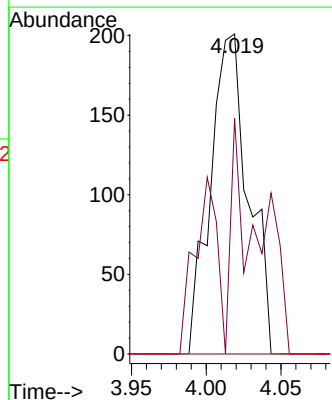
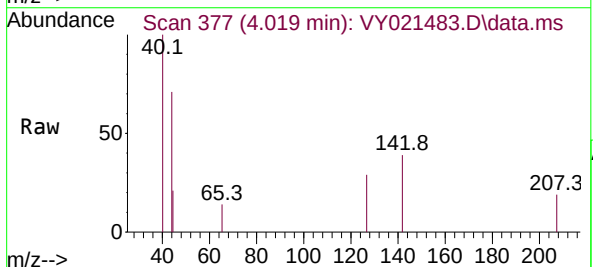
Instrument :
MSVOA_Y
ClientSampleId :

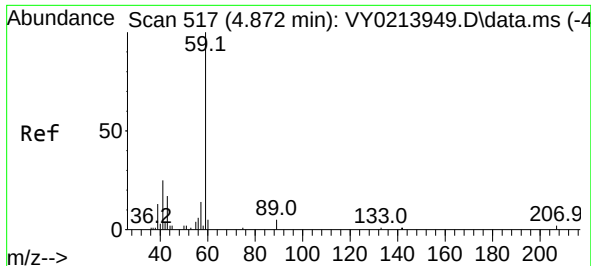
Tgt Ion: 74 Resp: 22
Ion Ratio Lower Upper
74 100
45 281.8 49.7 149.1#



#10
Methyl Iodide
Concen: 13.846 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.007 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

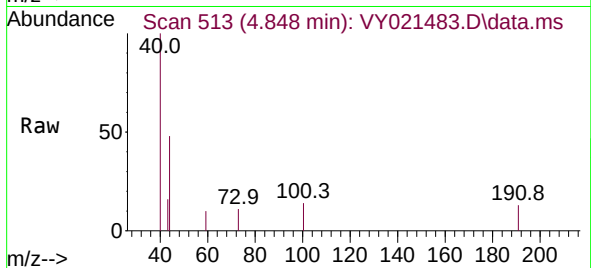
Tgt Ion:142 Resp: 356
Ion Ratio Lower Upper
142 100
127 35.1 39.1 58.7#
141 0.0 11.8 17.6#



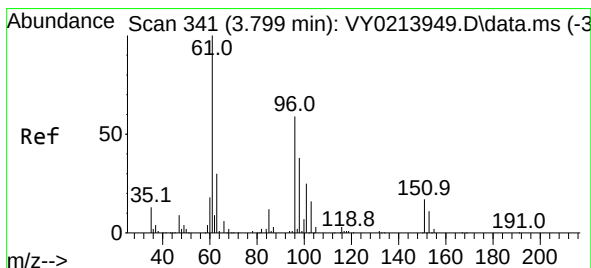
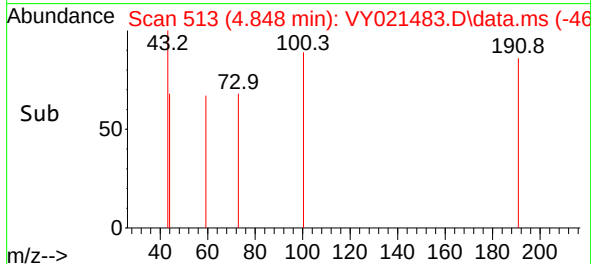
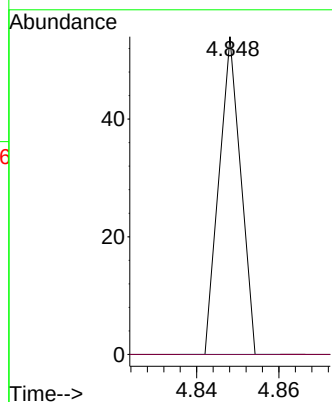


#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.848 min Scan# 51
Delta R.T. -0.024 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

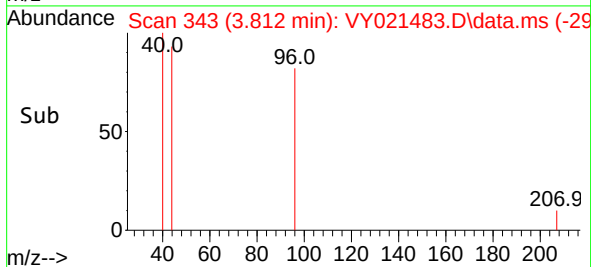
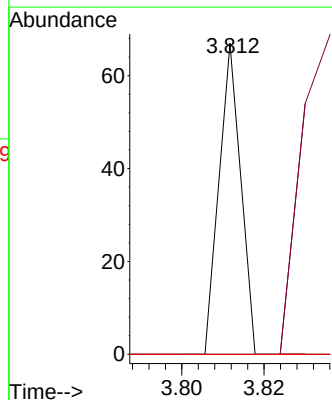
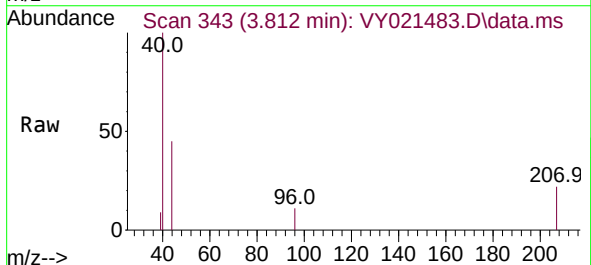


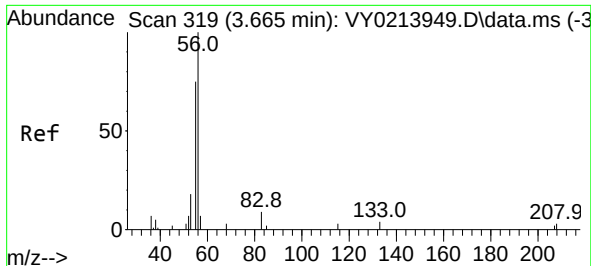
Tgt Ion: 59 Resp: 20
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 1.084 ug/l
RT: 3.812 min Scan# 343
Delta R.T. 0.013 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

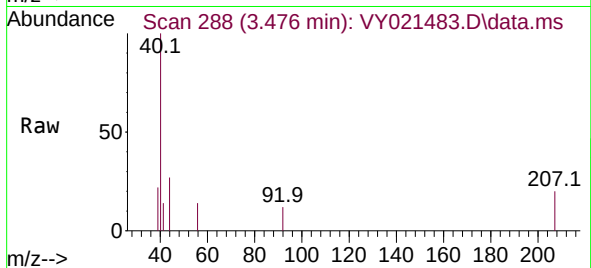
Tgt Ion: 96 Resp: 25
Ion Ratio Lower Upper
96 100
61 0.0 135.2 202.8#
98 0.0 51.4 77.2#



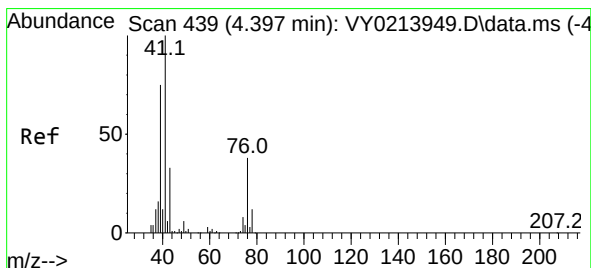
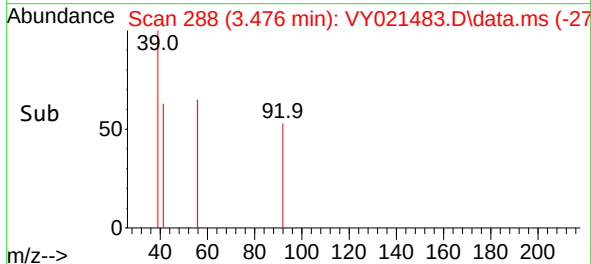
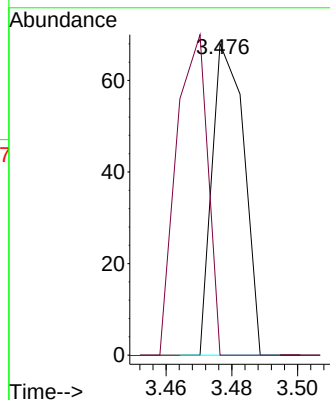


#13
Acrolein
Concen: 38.114 ug/l
RT: 3.476 min Scan# 21
Delta R.T. -0.189 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

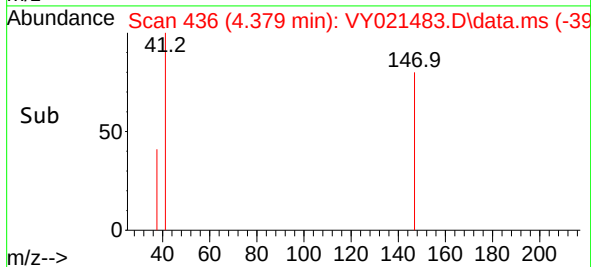
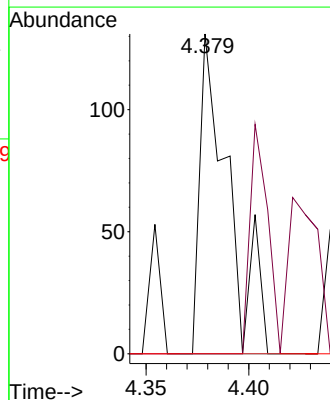
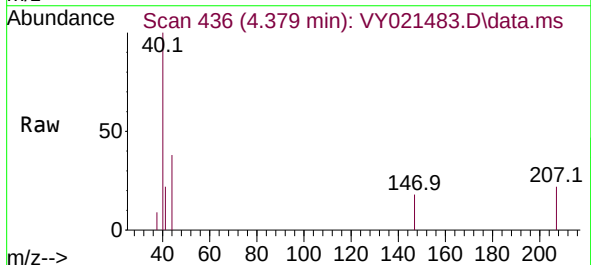


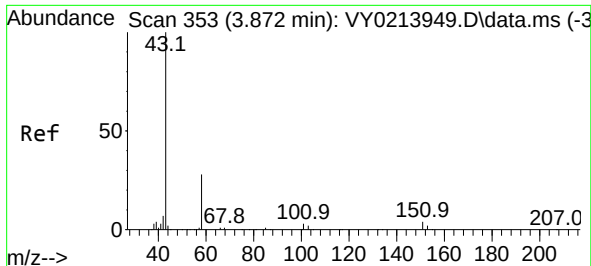
Tgt Ion: 56 Resp: 46
Ion Ratio Lower Upper
56 100
55 100.0 63.4 95.2#



#14
Allyl chloride
Concen: 3.408 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.018 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

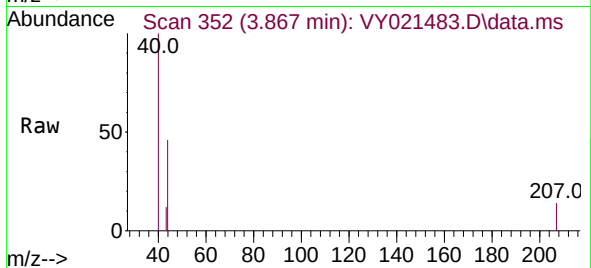
Tgt Ion: 41 Resp: 127
Ion Ratio Lower Upper
41 100
39 0.0 59.3 88.9#
76 0.0 29.8 44.8#



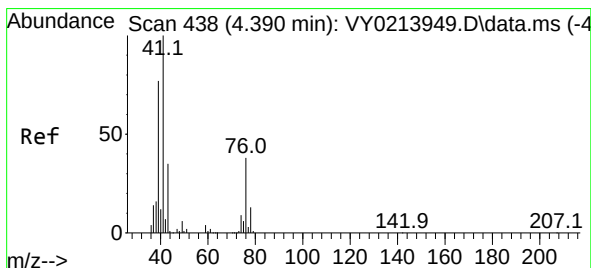
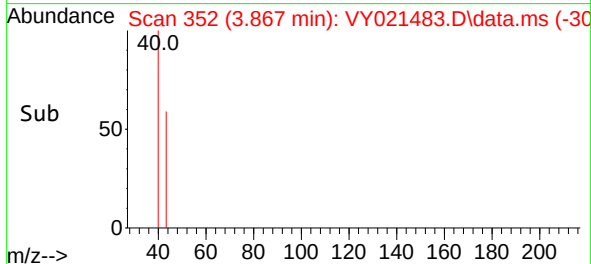
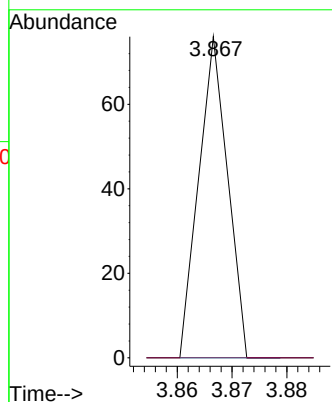


#16
Acetone
Concen: 5.410 ug/l
RT: 3.867 min Scan# 31
Delta R.T. -0.005 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

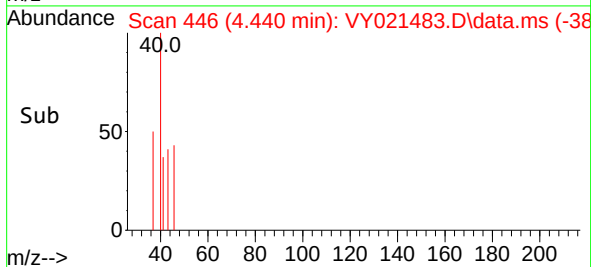
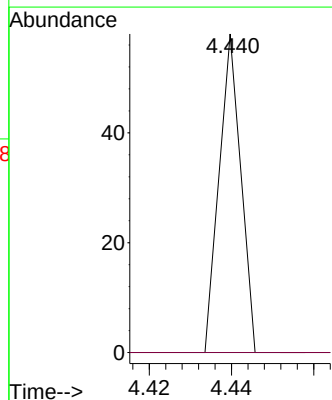
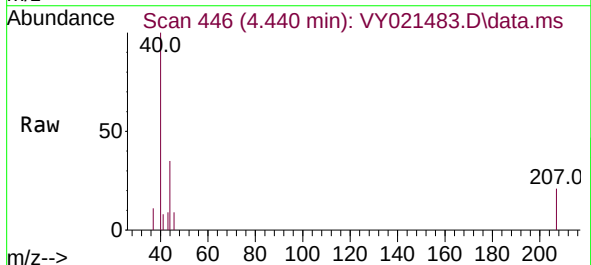


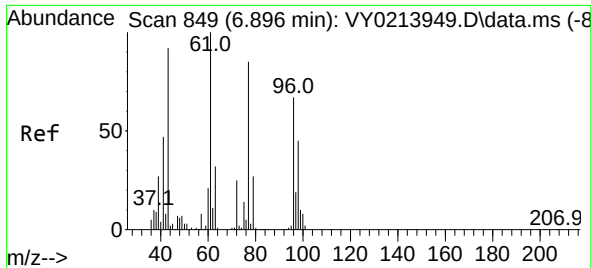
Tgt Ion: 43 Resp: 28
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#18
Methyl Acetate
Concen: 1.829 ug/l
RT: 4.440 min Scan# 446
Delta R.T. 0.049 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

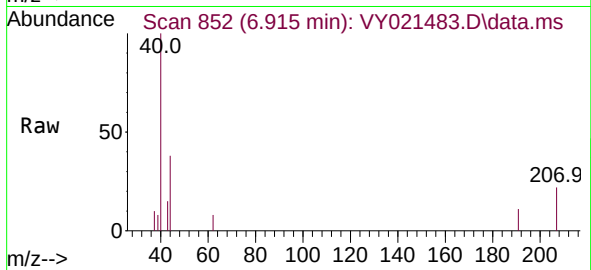
Tgt Ion: 43 Resp: 21
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



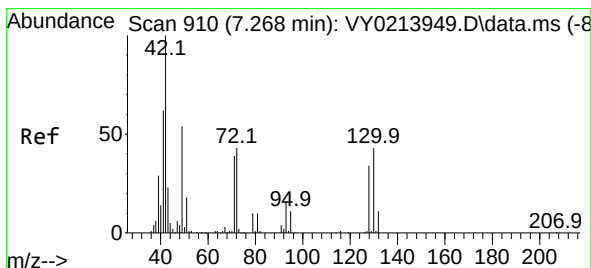
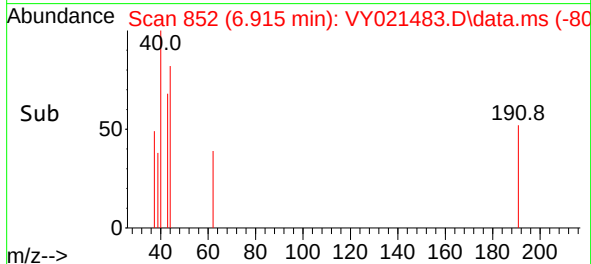
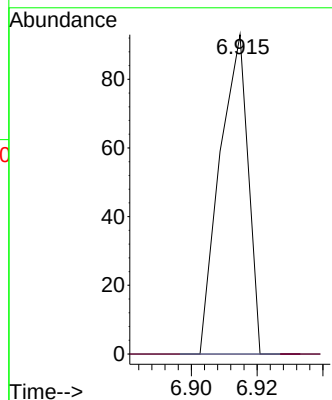


#25
2-Butanone
Concen: 7.822 ug/l
RT: 6.915 min Scan# 81
Delta R.T. 0.019 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

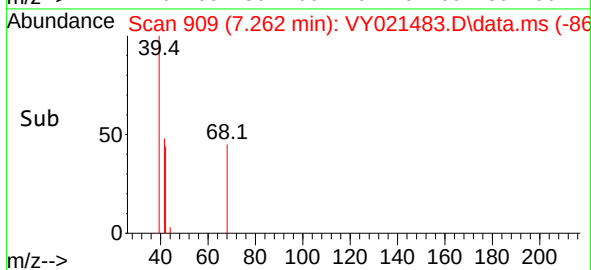
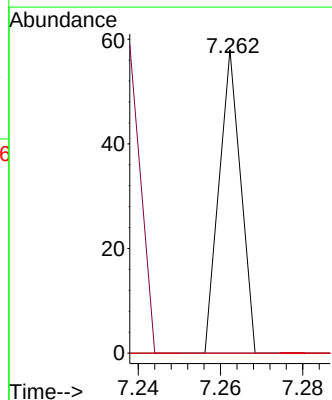
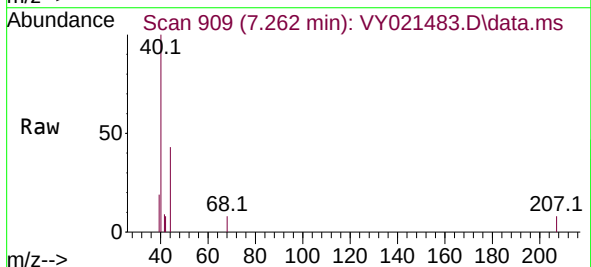


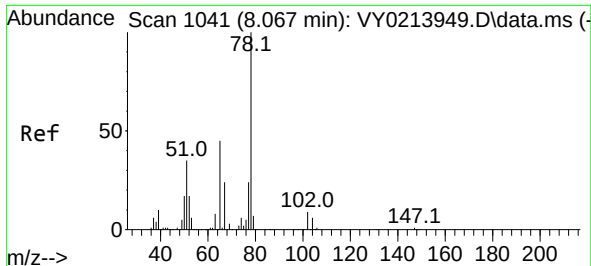
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#



#29
Tetrahydrofuran
Concen: 4.751 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.006 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 42 Resp: 21
Ion Ratio Lower Upper
42 100
72 0.0 34.8 52.2#
71 0.0 32.6 48.8#





#33

1,2-Dichloroethane-d4

Concen: 68.273 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

Instrument :

MSVOA_Y

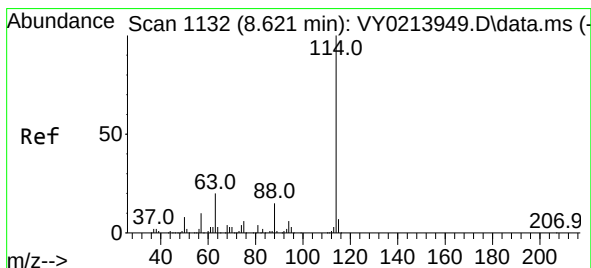
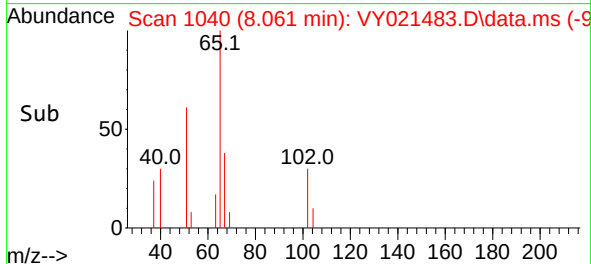
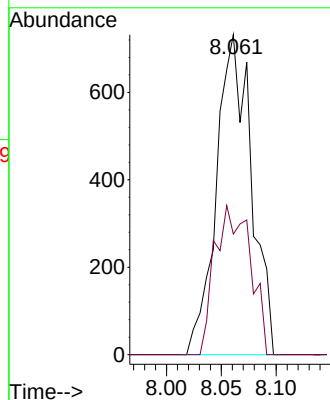
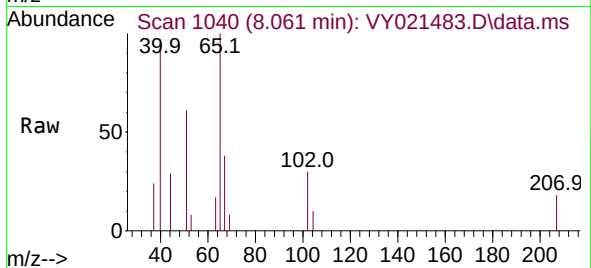
ClientSampleId :

Tgt Ion: 65 Resp: 1620

Ion Ratio Lower Upper

65 100

67 47.5 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

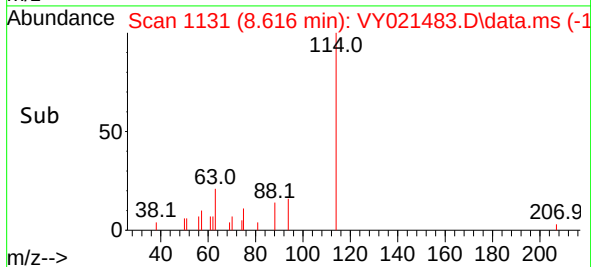
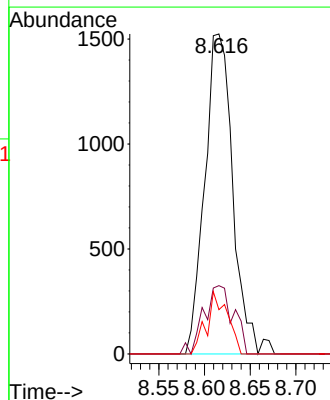
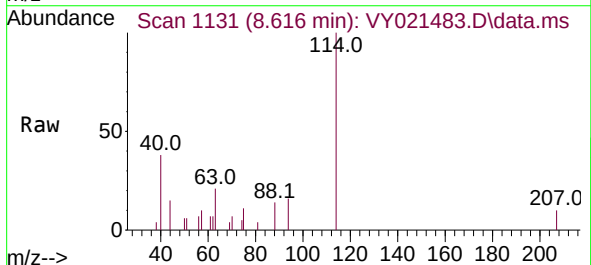
Tgt Ion: 114 Resp: 3265

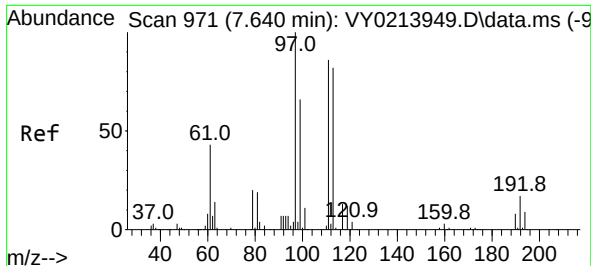
Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.8

88 13.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 57.266 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

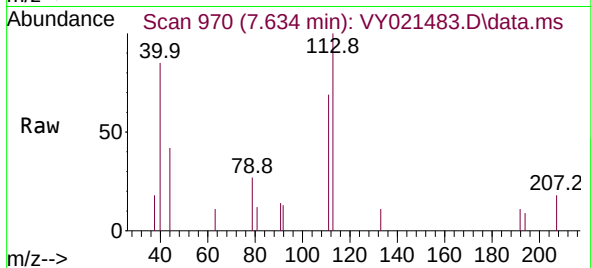
Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

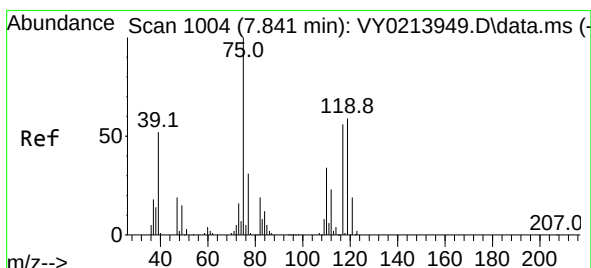
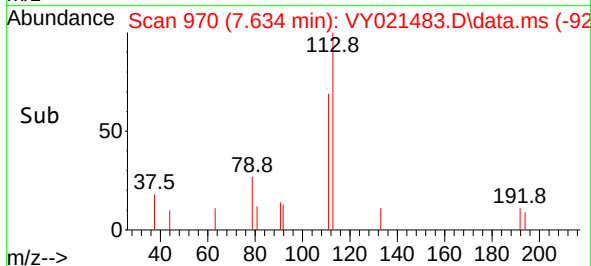
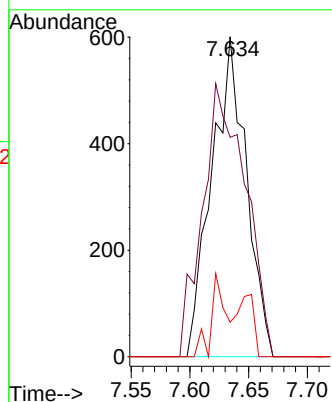
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	113	Resp:	1229
Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.0	123.0
192	10.8	15.9	23.9#



#36

1,1-Dichloropropene

Concen: 1.875 ug/l

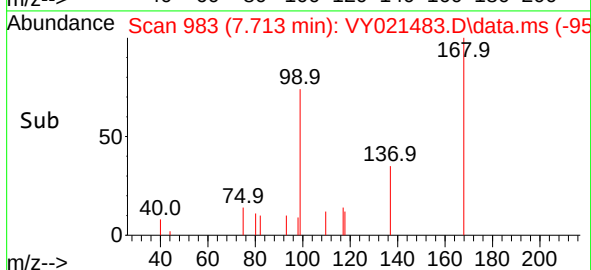
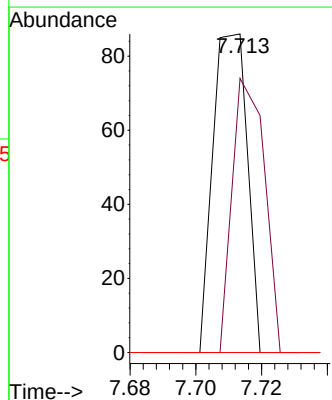
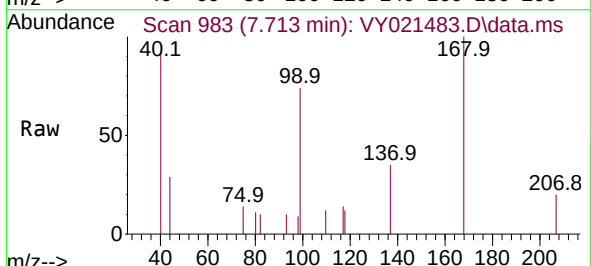
RT: 7.713 min Scan# 983

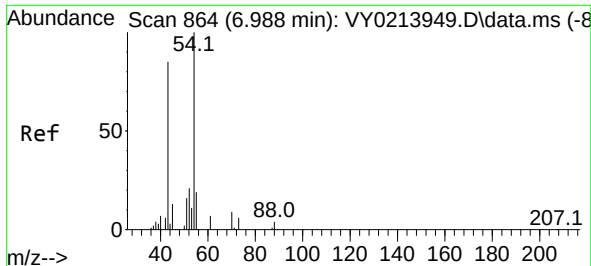
Delta R.T. -0.128 min

Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

Tgt Ion:	75	Resp:	63
Ion	Ratio	Lower	Upper
75	100		
110	79.4	17.3	51.7#
77	0.0	25.4	38.2#





#37

Ethyl Acetate

Concen: 3.906 ug/l

RT: 7.012 min Scan# 80

Delta R.T. 0.025 min

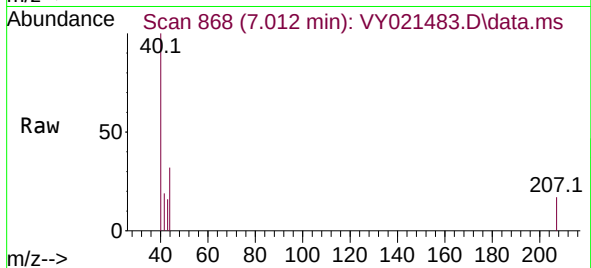
Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

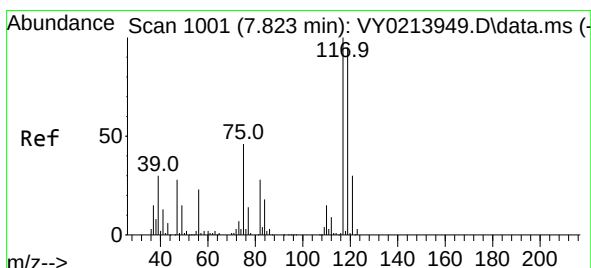
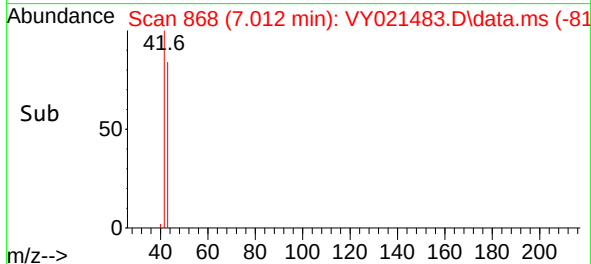
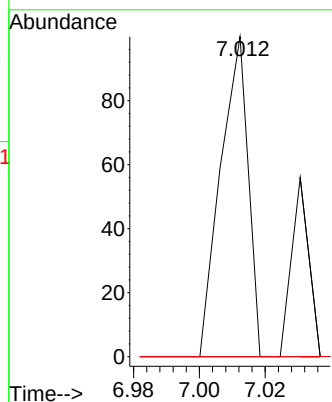
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	58
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.4	17.0#
70	0.0	8.2	12.2#



#38

Carbon Tetrachloride

Concen: 3.028 ug/l

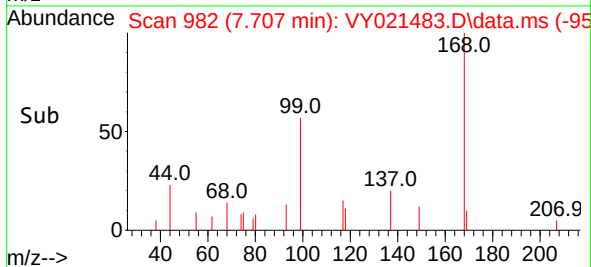
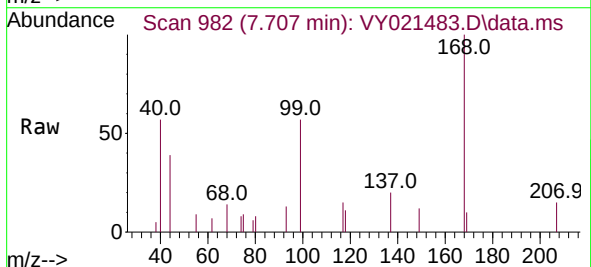
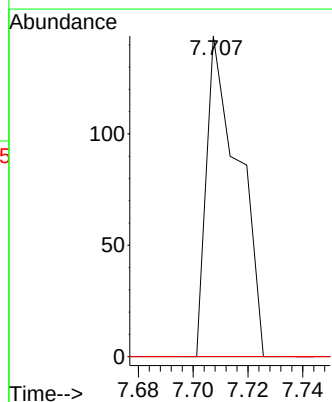
RT: 7.707 min Scan# 982

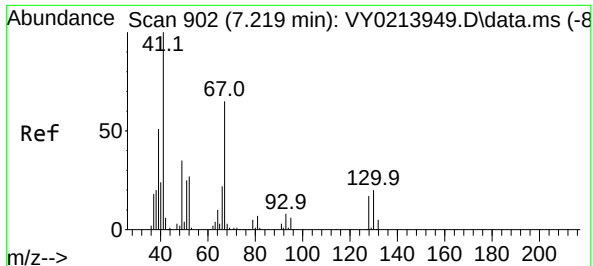
Delta R.T. -0.115 min

Lab File: VY021483.D

Acq: 11 Mar 2025 13:58

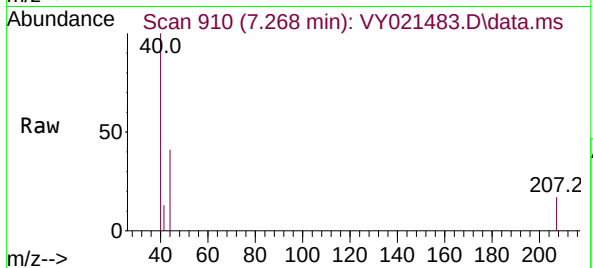
Tgt Ion:	117	Resp:	117
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.8#
121	0.0	23.9	35.9#



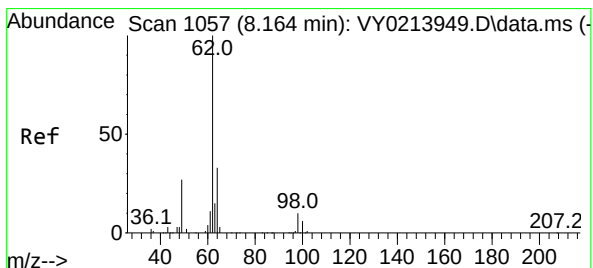
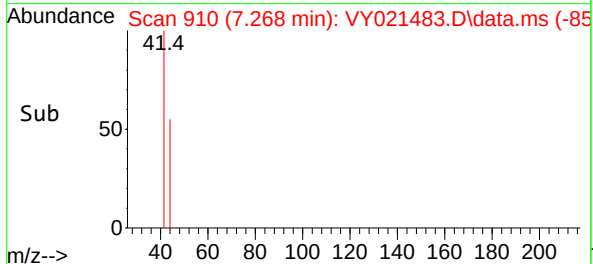
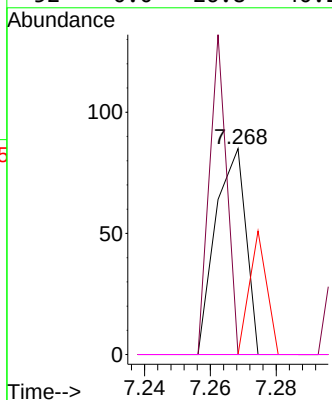


#41
Methacrylonitrile
Concen: 6.803 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.049 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

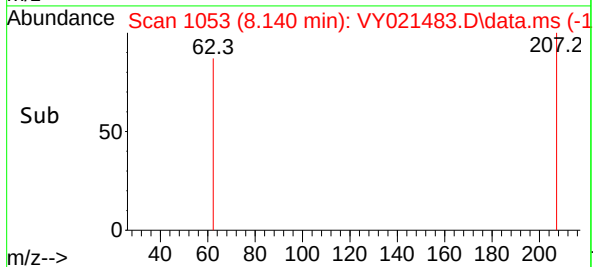
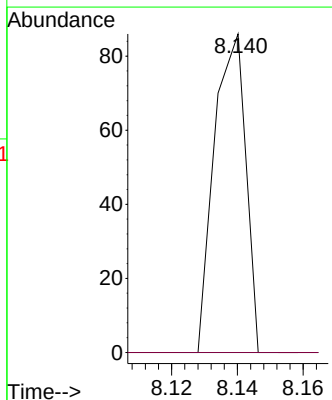
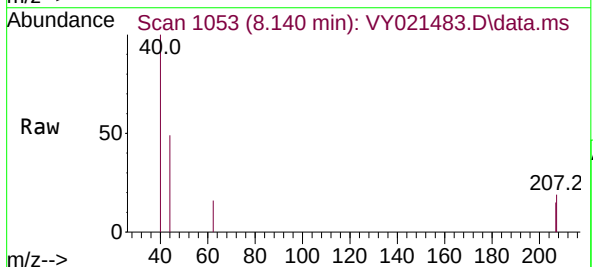


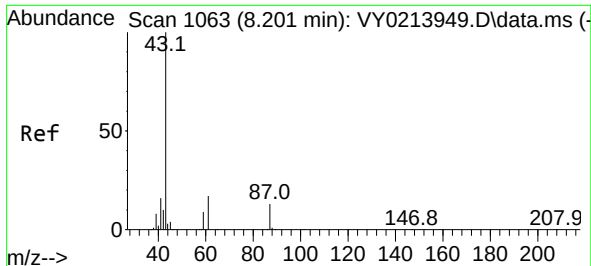
Tgt Ion:	41	Resp:	55
Ion	Ratio	Lower	Upper
41	100		
39	87.3	35.0	52.6#
67	34.5	61.2	91.8#
52	0.0	26.8	40.2#



#42
1,2-Dichloroethane
Concen: 2.059 ug/l
RT: 8.140 min Scan# 1053
Delta R.T. -0.024 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

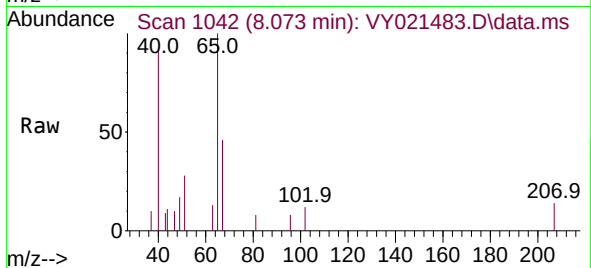
Tgt Ion:	62	Resp:	57
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	18.2



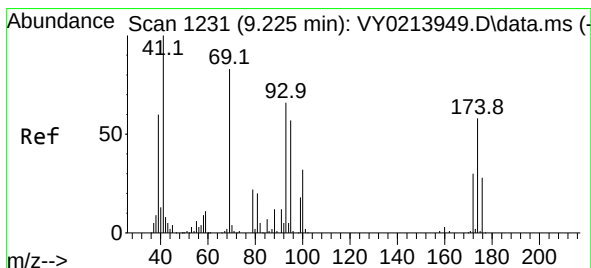
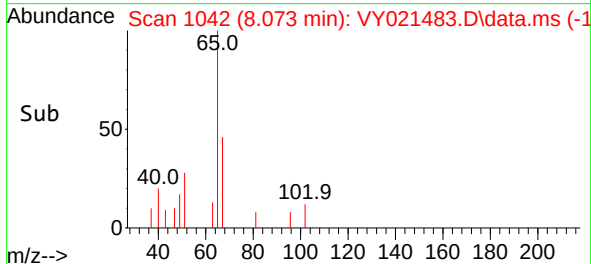
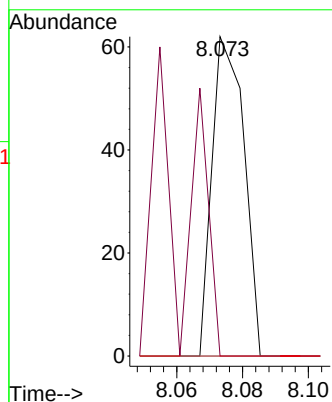


#43
Isopropyl Acetate
Concen: 1.457 ug/l
RT: 8.073 min Scan# 1063
Delta R.T. -0.128 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Instrument :
MSVOA_Y
ClientSampleId :

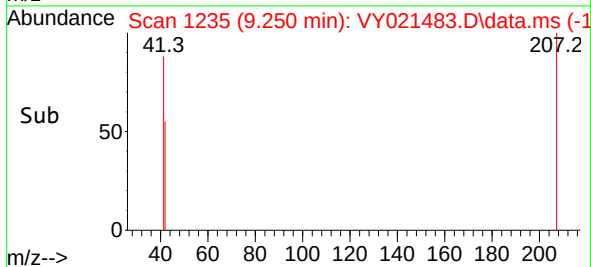
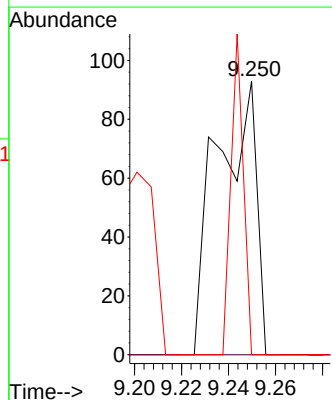
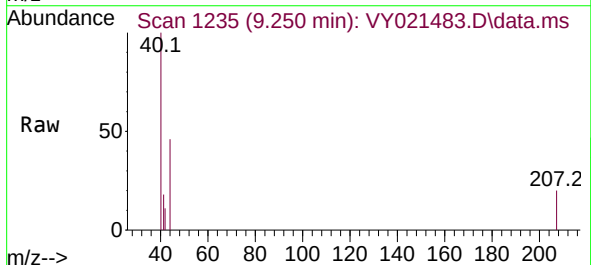


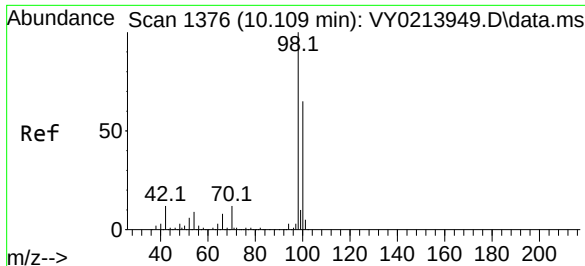
Tgt Ion: 43 Resp: 42
Ion Ratio Lower Upper
43 100
61 97.6 23.4 35.0#
87 0.0 10.5 15.7#



#48
Methyl methacrylate
Concen: 8.160 ug/l
RT: 9.250 min Scan# 1235
Delta R.T. 0.025 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 41 Resp: 108
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.8#
39 37.0 46.4 69.6#

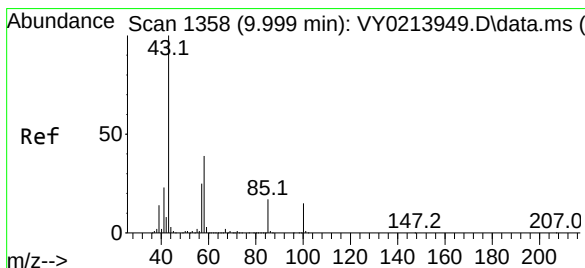
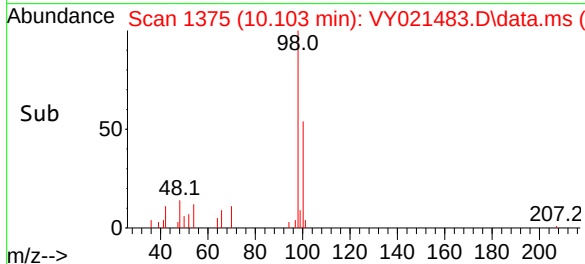
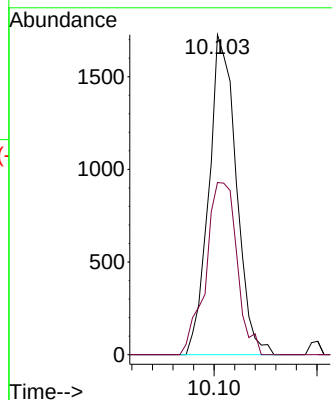
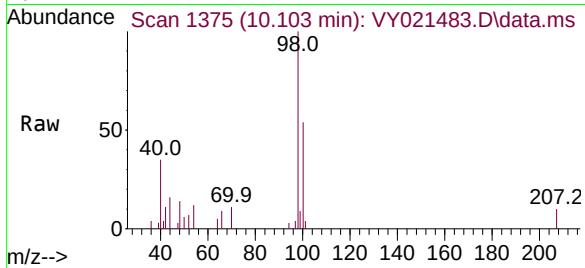




#50
Toluene-d8
Concen: 39.294 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

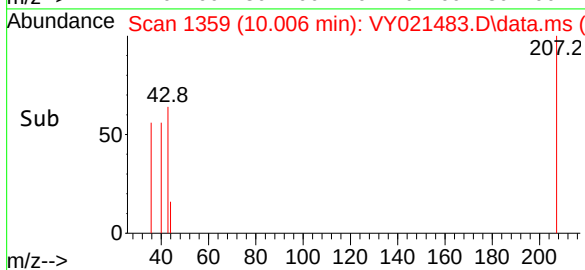
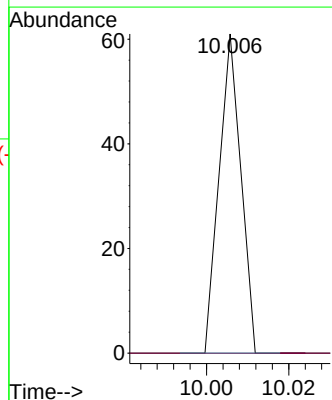
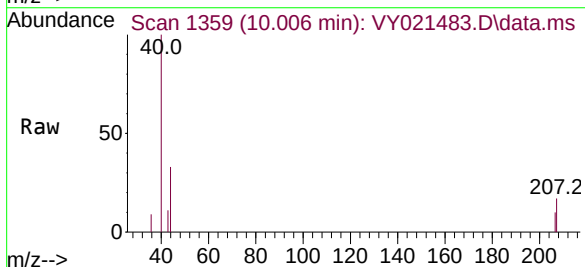
Instrument :
MSVOA_Y
ClientSampleId :

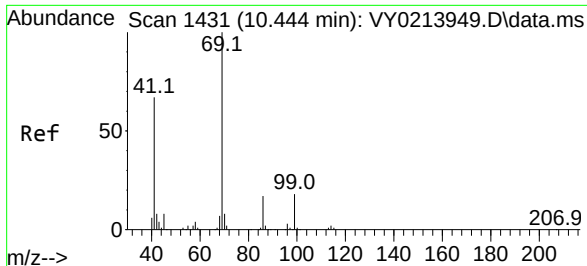
Tgt Ion: 98 Resp: 3193
Ion Ratio Lower Upper
98 100
100 61.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.479 ug/l
RT: 10.006 min Scan# 1359
Delta R.T. 0.007 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 43 Resp: 22
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#

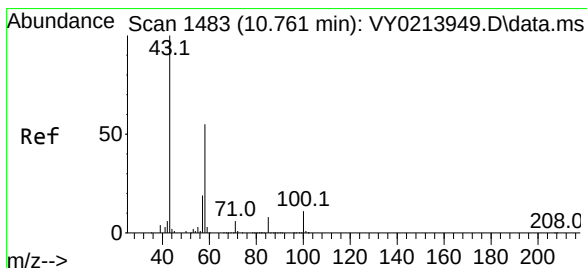
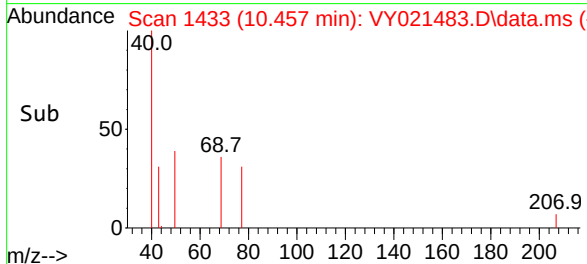
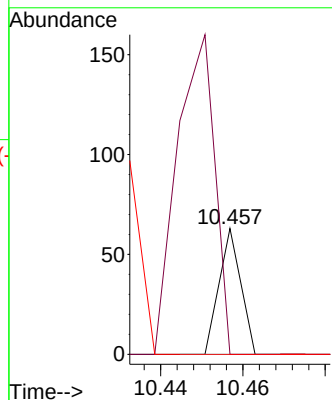
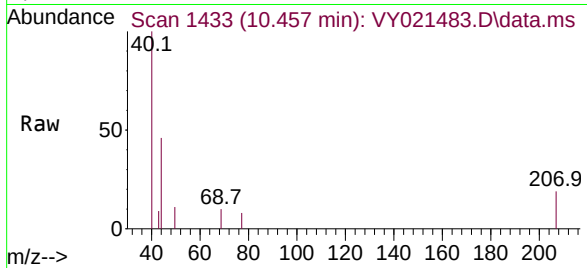




#56
Ethyl methacrylate
Concen: 1.052 ug/l
RT: 10.457 min Scan# 1431
Delta R.T. 0.013 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

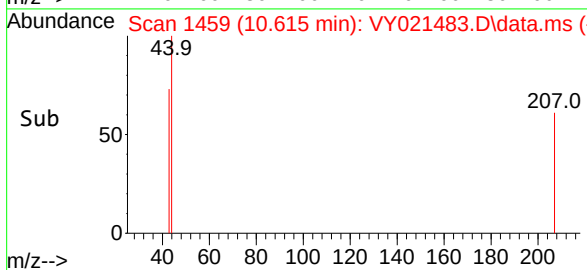
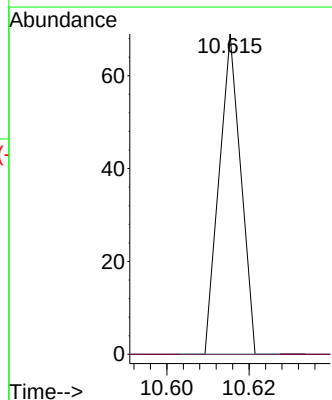
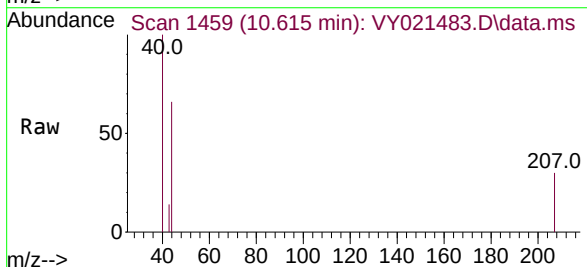
Instrument :
MSVOA_Y
ClientSampleId :

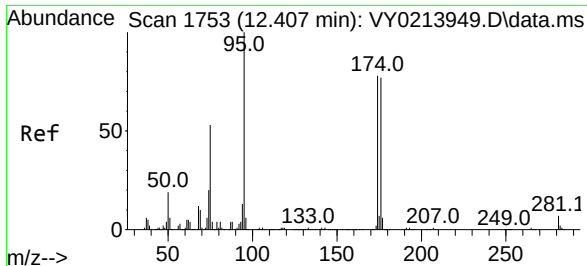
Tgt Ion: 69 Resp: 23
Ion Ratio Lower Upper
69 100
41 439.1 53.3 79.9#
39 0.0 31.0 46.6#



#59
2-Hexanone
Concen: 2.542 ug/l
RT: 10.615 min Scan# 1459
Delta R.T. -0.146 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

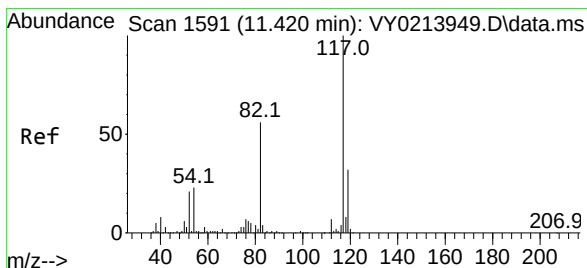
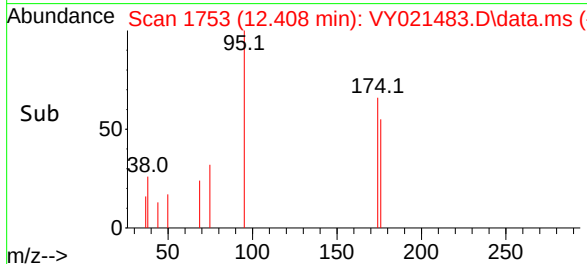
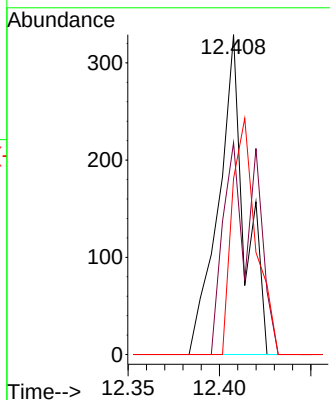
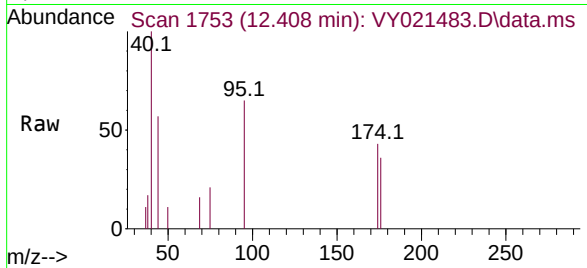




#62
4-Bromofluorobenzene
Concen: 11.939 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

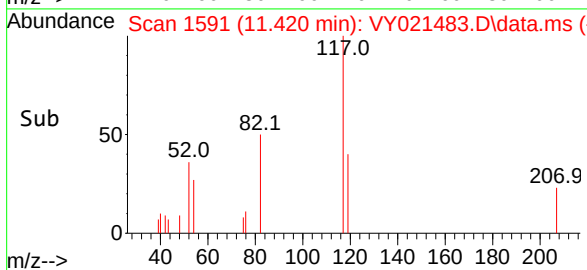
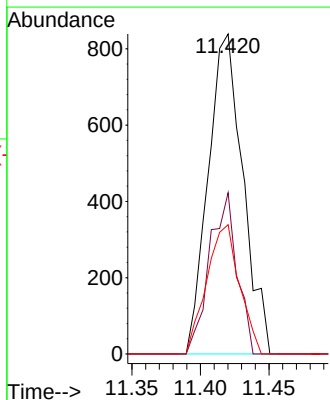
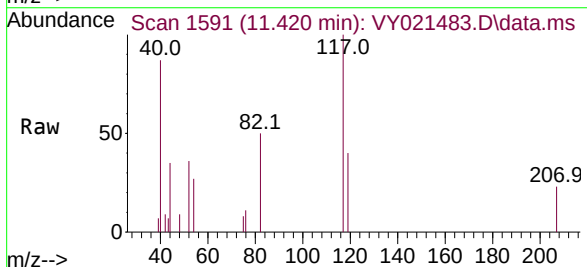
Instrument :
MSVOA_Y
ClientSampleId :

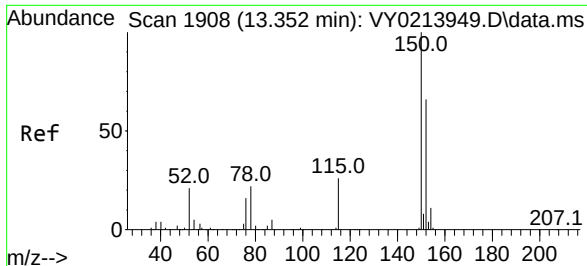
Tgt Ion: 95 Resp: 330
Ion Ratio Lower Upper
95 100
174 78.5 0.0 165.0
176 66.7 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021483.D
Acq: 11 Mar 2025 13:58

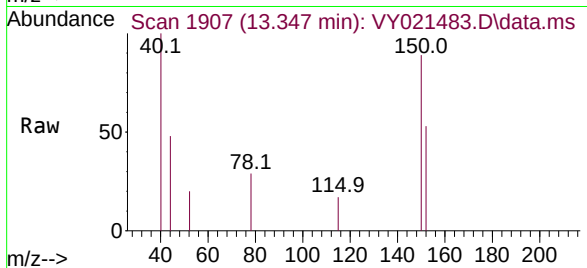
Tgt Ion: 117 Resp: 1479
Ion Ratio Lower Upper
117 100
82 50.4 44.6 67.0
119 40.4 25.4 38.0#



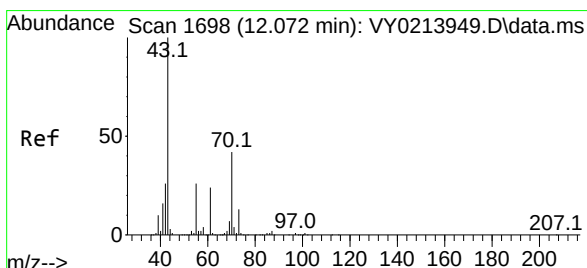
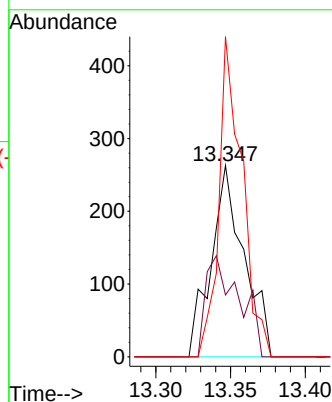
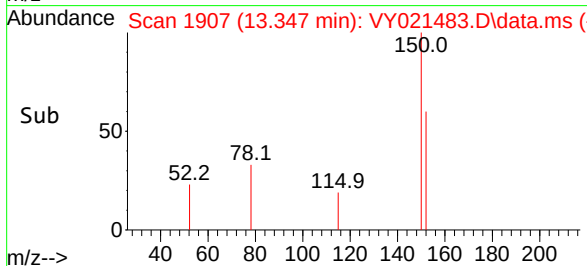


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021483.D
 Acq: 11 Mar 2025 13:58

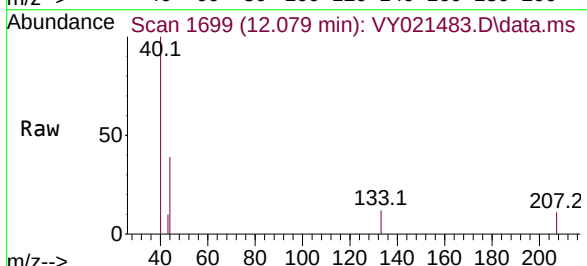
Instrument :
 MSVOA_Y
 ClientSampleId :



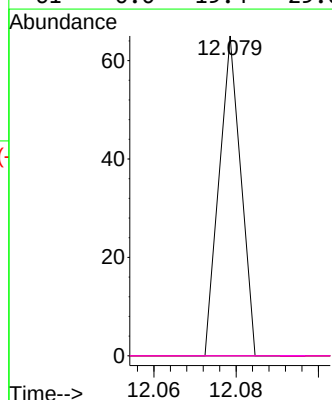
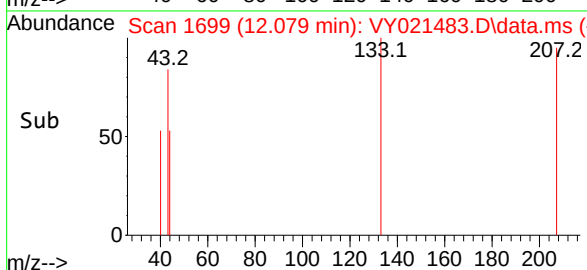
Tgt Ion:152 Resp: 404
 Ion Ratio Lower Upper
 152 100
 115 53.5 29.0 87.0
 150 117.3 0.0 347.2

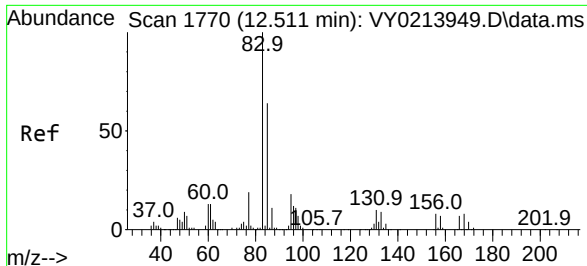


#74
 N-ethyl acetate
 Concen: 3.473 ug/l
 RT: 12.079 min Scan# 1699
 Delta R.T. 0.007 min
 Lab File: VY021483.D
 Acq: 11 Mar 2025 13:58



Tgt Ion: 43 Resp: 24
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 51.8#
 55 0.0 21.1 31.7#
 61 0.0 19.4 29.0#

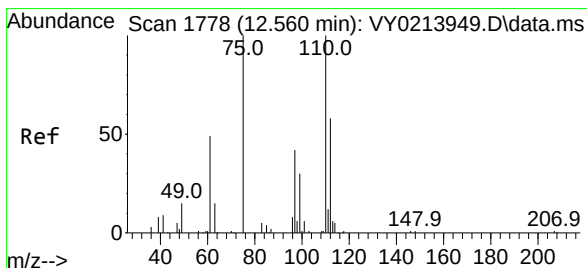
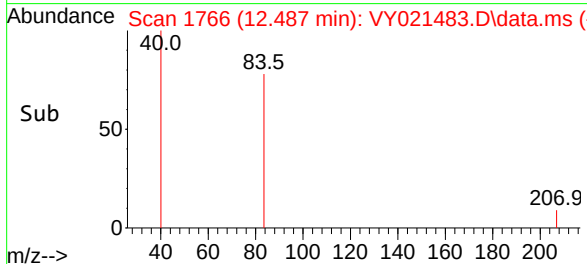
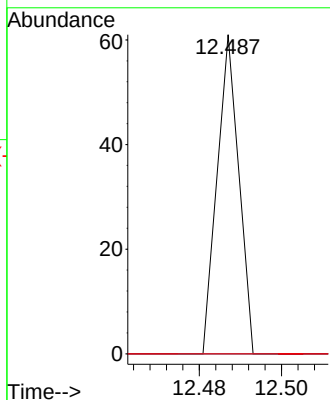
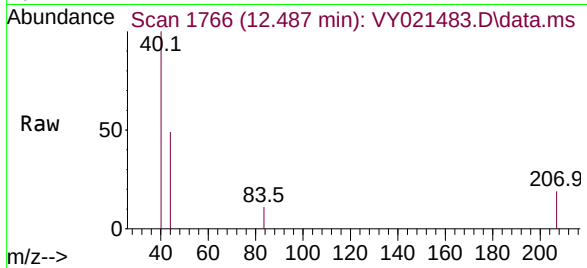




#75
 1,1,2-Tetrachloroethane
 Concen: 3.917 ug/l
 RT: 12.487 min Scan# 1766
 Delta R.T. -0.024 min
 Lab File: VY021483.D
 Acq: 11 Mar 2025 13:58

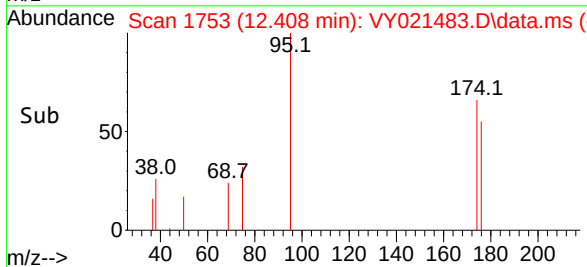
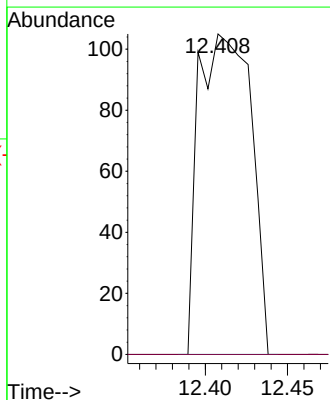
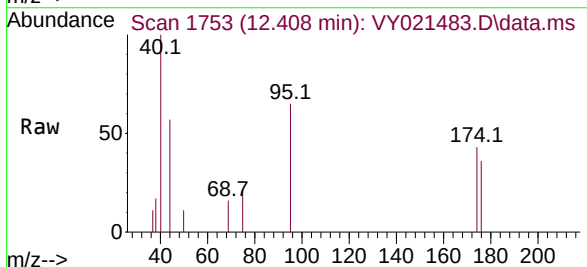
Instrument :
 MSVOA_Y
 ClientSampleId :

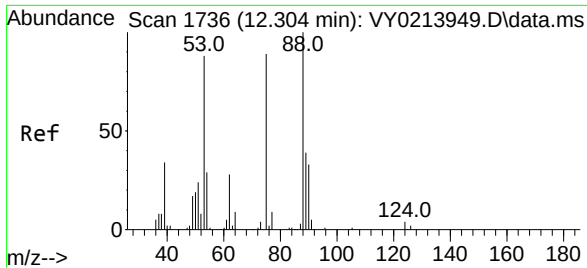
Tgt Ion: 83 Resp: 22
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 31.9 95.5#



#76
 1,2,3-Trichloropropane
 Concen: 57.233 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021483.D
 Acq: 11 Mar 2025 13:58

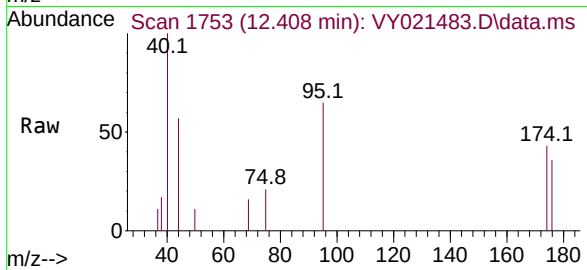
Tgt Ion: 75 Resp: 233
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 130.110 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY021483.D
 Acq: 11 Mar 2025 13:58

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 233

Ion	Ratio	Lower	Upper
75	100		
53	0.0	81.0	121.4#
89	0.0	36.9	55.3#

