

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020625\
 Data File : VY021112.D
 Acq On : 06 Feb 2025 15:35
 Operator : SY/MD
 Sample : Q1288-02
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 07 02:33:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

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

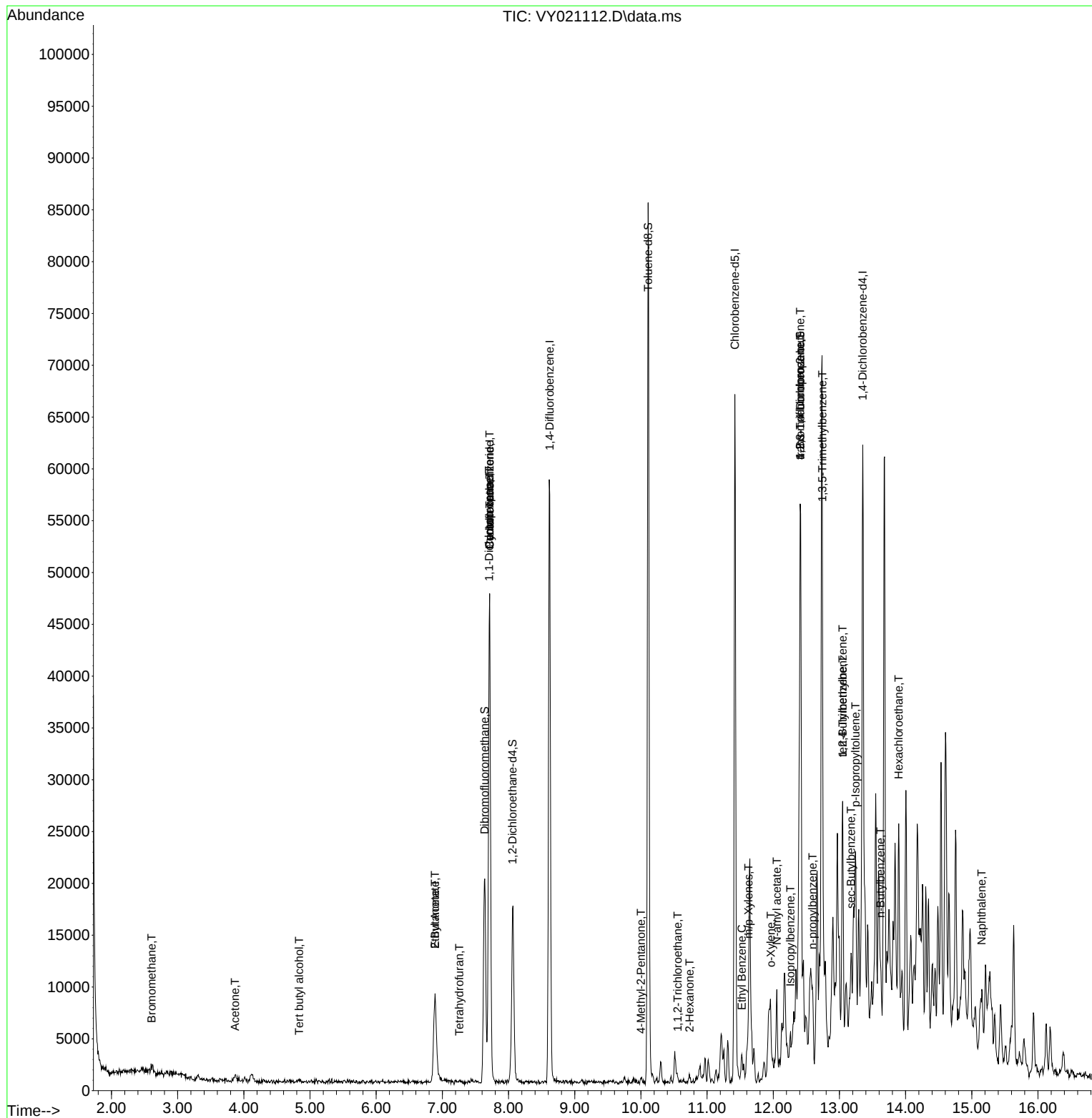
Internal Standards						
1) Pentafluorobenzene	7.713	168	35273	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	49467	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	35601	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	12551	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	13075	36.179	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	72.360%		
35) Dibromofluoromethane	7.640	113	14350	45.266	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.540%		
50) Toluene-d8	10.109	98	54315	45.003	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	90.000%		
62) 4-Bromofluorobenzene	12.408	95	14067	35.677	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	71.360%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.604	94	291	1.508	ug/l	97
11) Tert butyl alcohol	4.836	59	330	13.475	ug/l #	75
16) Acetone	3.866	43	1058	18.772	ug/l	94
25) 2-Butanone	6.890	43	549	5.928	ug/l #	48
29) Tetrahydrofuran	7.256	42	81	1.293	ug/l #	32
31) Cyclohexane	7.713	56	769	1.248	ug/l #	19
36) 1,1-Dichloropropene	7.707	75	2942	6.265	ug/l #	48
37) Ethyl Acetate	6.890	43	549	2.665	ug/l #	68
38) Carbon Tetrachloride	7.713	117	3498	6.376	ug/l #	18
51) 4-Methyl-2-Pentanone	9.999	43	442	2.147	ug/l #	67
55) 1,1,2-Trichloroethane	10.554	97	349	1.488	ug/l #	15
59) 2-Hexanone	10.737	43	339	2.558	ug/l #	23
67) Ethyl Benzene	11.524	91	1701	1.213	ug/l	98
68) m/p-Xylenes	11.627	106	1518	2.894	ug/l	82
69) o-Xylene	11.963	106	1322	2.703	ug/l	96
73) Isopropylbenzene	12.261	105	1192	1.216	ug/l	89
74) N-amyl acetate	12.054	43	1884	8.790	ug/l #	68
76) 1,2,3-Trichloropropane	12.408	75	7634	67.051	ug/l #	100
78) n-propylbenzene	12.597	91	3771	3.229	ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	4674	5.880	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.408	75	7634	136.817	ug/l #	12
83) tert-Butylbenzene	13.048	119	1587	2.197	ug/l #	54
84) 1,2,4-Trimethylbenzene	13.048	105	11666	15.010	ug/l	99
85) sec-Butylbenzene	13.176	105	3179	3.057	ug/l	96
86) p-Isopropyltoluene	13.243	119	3662	4.239	ug/l	89
89) n-Butylbenzene	13.621	91	1955	2.480	ug/l #	64
90) Hexachloroethane	13.895	117	857	4.755	ug/l #	17
95) Naphthalene	15.151	128	3550	10.514	ug/l #	90

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

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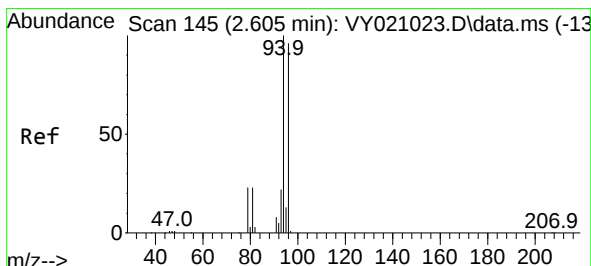
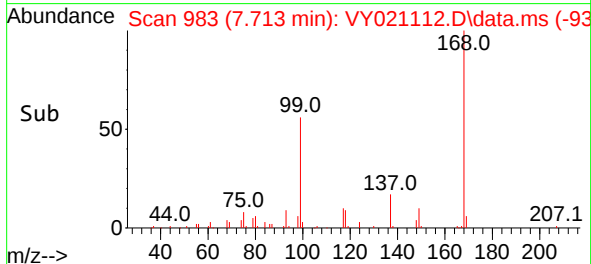
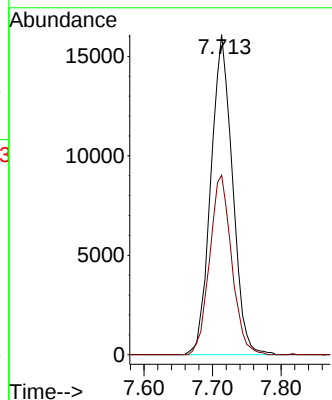
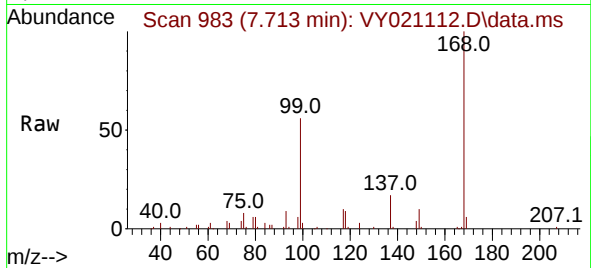




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

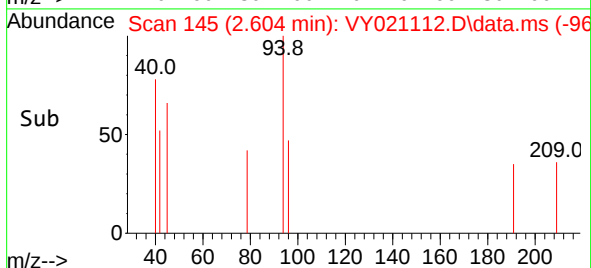
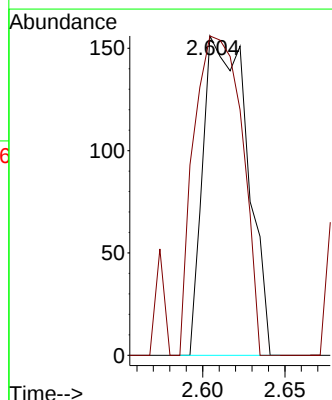
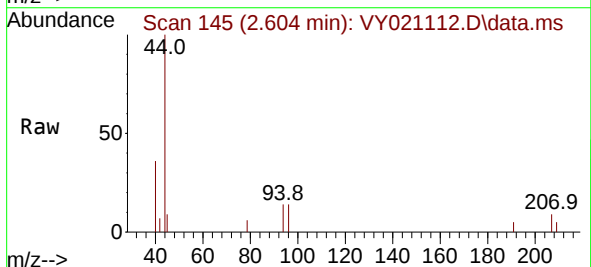
Instrument :
MSVOA_Y
ClientSampleId :

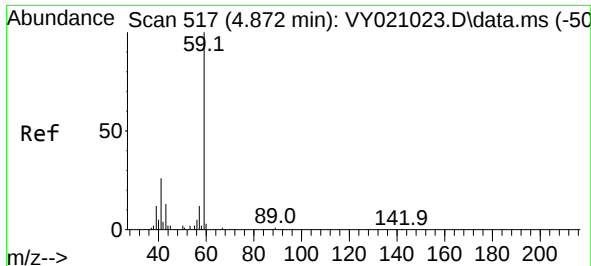
Tgt Ion:168 Resp: 35273
Ion Ratio Lower Upper
168 100
99 56.1 44.2 66.4



#5
Bromomethane
Concen: 1.508 ug/l
RT: 2.604 min Scan# 145
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 94 Resp: 291
Ion Ratio Lower Upper
94 100
96 100.0 77.3 115.9





#11

Tert butyl alcohol

Concen: 13.475 ug/l

RT: 4.836 min Scan# 511

Delta R.T. -0.037 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Instrument :

MSVOA_Y

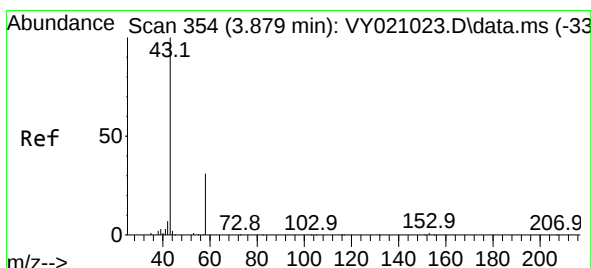
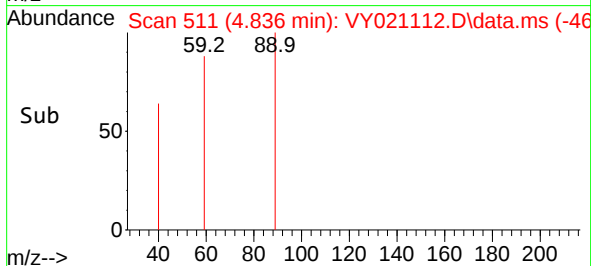
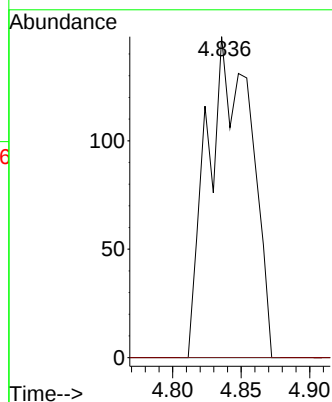
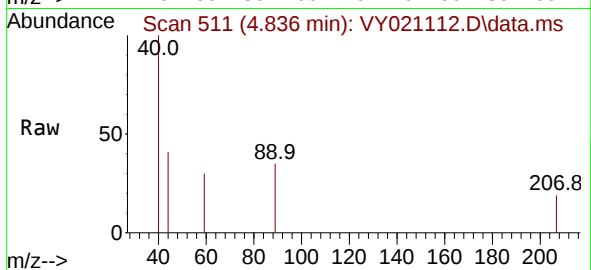
ClientSampleId :

Tgt Ion: 59 Resp: 330

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



#16

Acetone

Concen: 18.772 ug/l

RT: 3.866 min Scan# 352

Delta R.T. -0.012 min

Lab File: VY021112.D

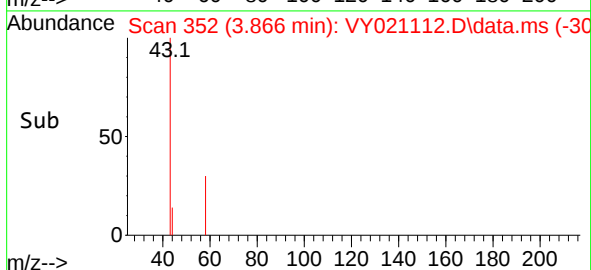
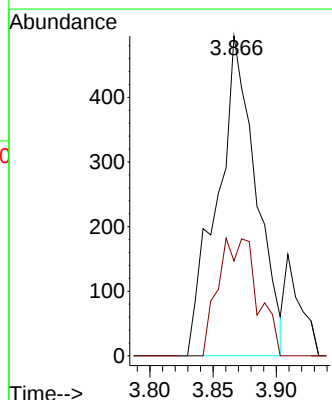
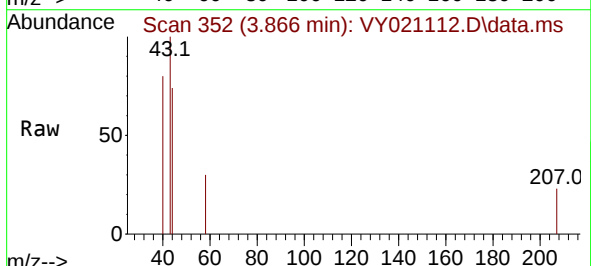
Acq: 06 Feb 2025 15:35

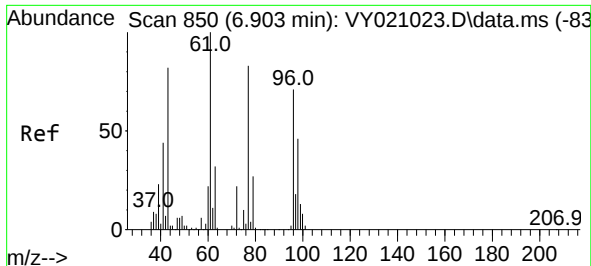
Tgt Ion: 43 Resp: 1058

Ion Ratio Lower Upper

43 100

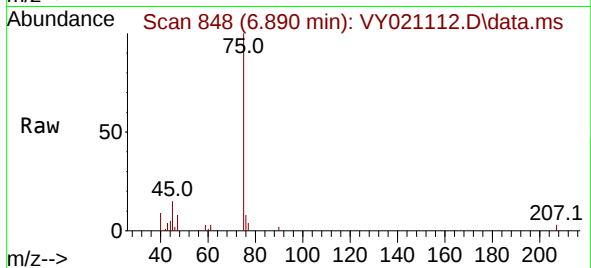
58 29.7 26.6 39.8



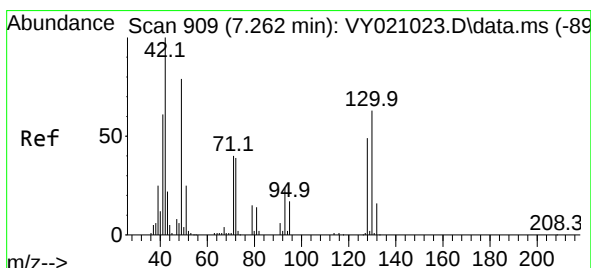
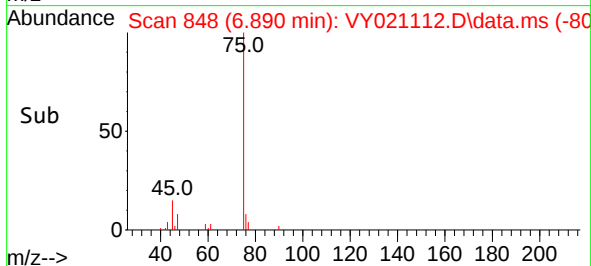
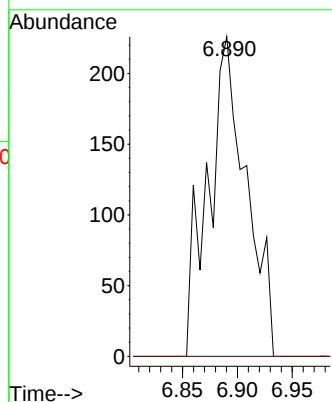


#25
2-Butanone
Concen: 5.928 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Instrument :
MSVOA_Y
ClientSampleId :

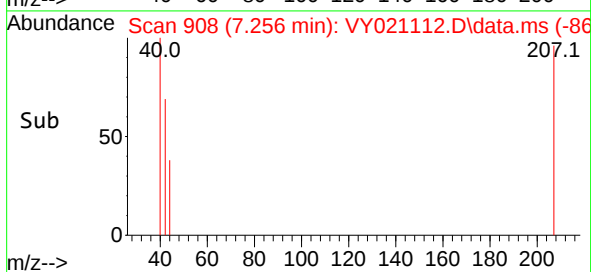
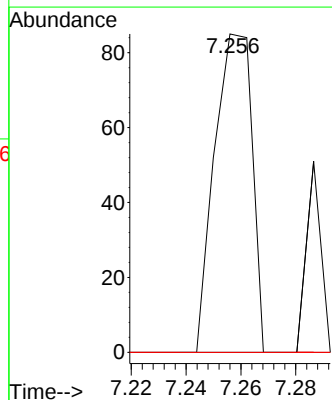
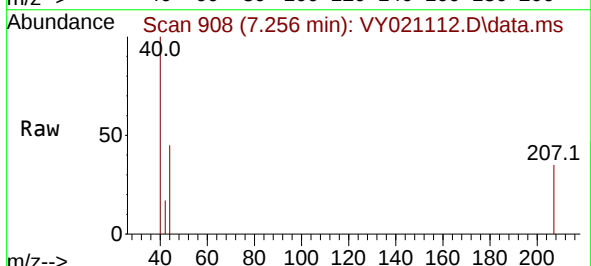


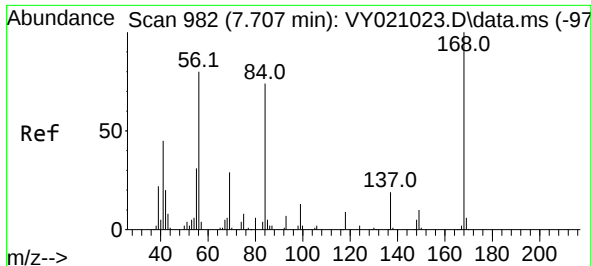
Tgt Ion: 43 Resp: 549
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#29
Tetrahydrofuran
Concen: 1.293 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY021112.D
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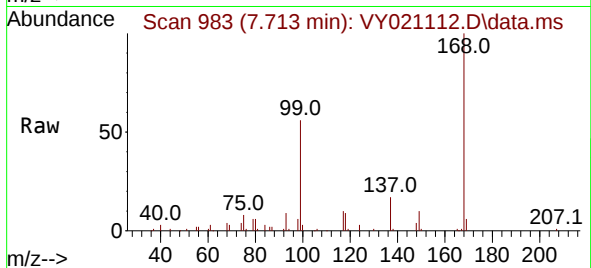
Tgt Ion: 42 Resp: 81
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 0.0 33.8 50.6#



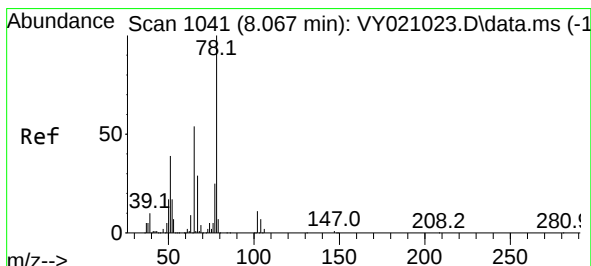
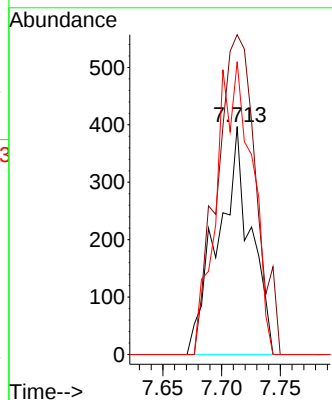
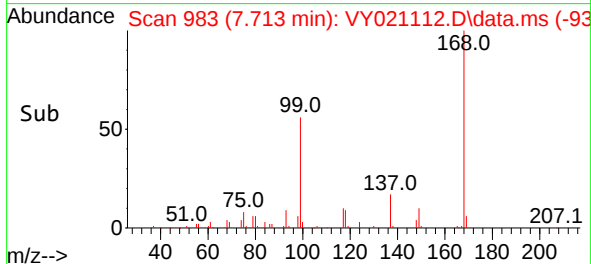


#31
Cyclohexane
Concen: 1.248 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

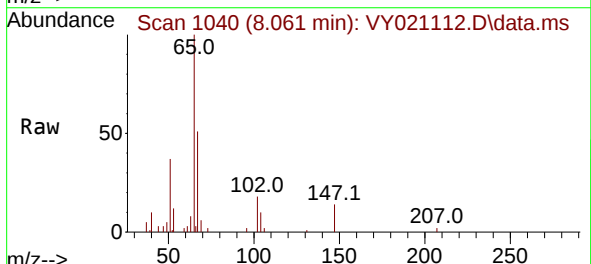
Instrument :
MSVOA_Y
ClientSampleId :



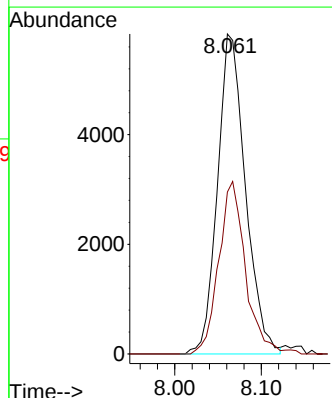
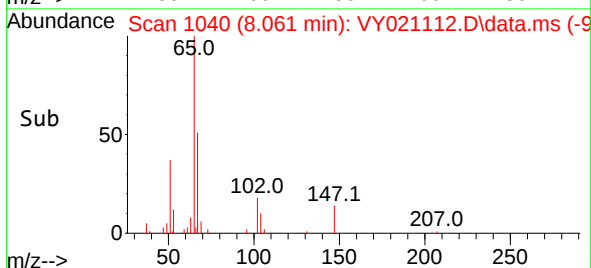
Tgt Ion: 56 Resp: 769
Ion Ratio Lower Upper
56 100
69 140.3 27.0 40.6#
84 128.5 71.8 107.6#

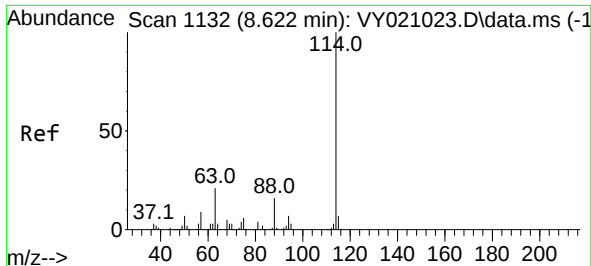


#33
1,2-Dichloroethane-d4
Concen: 36.179 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35



Tgt Ion: 65 Resp: 13075
Ion Ratio Lower Upper
65 100
67 51.9 0.0 109.0

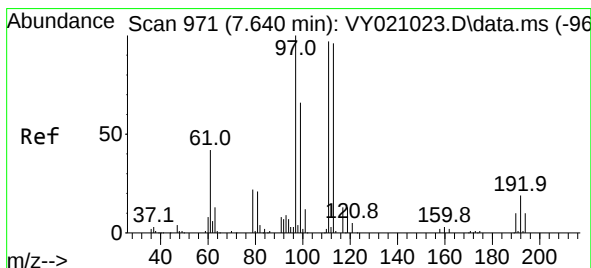
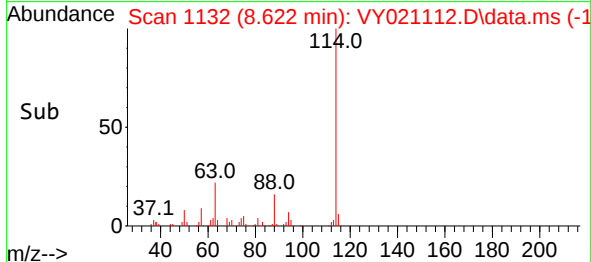
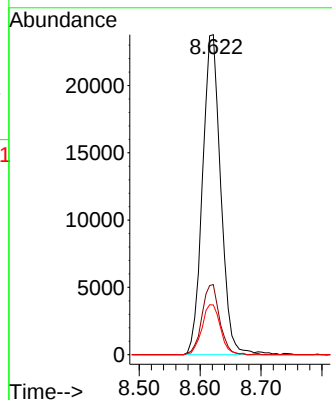
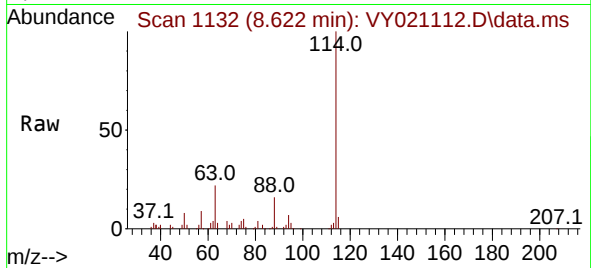




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

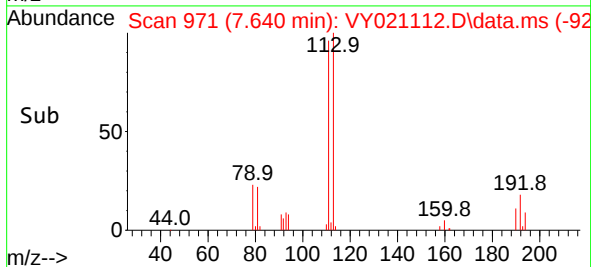
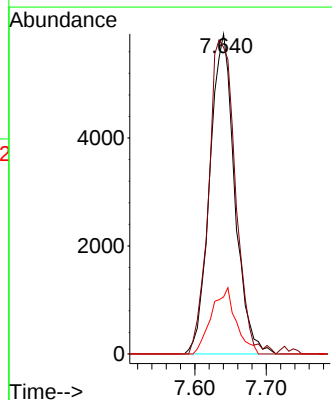
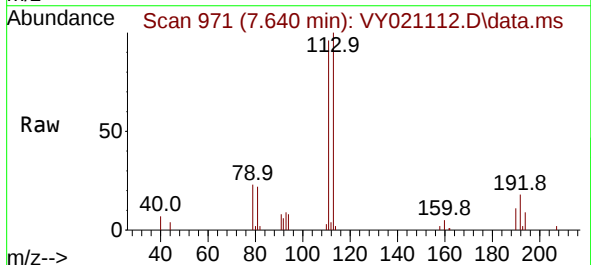
Instrument :
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ClientSampleId :

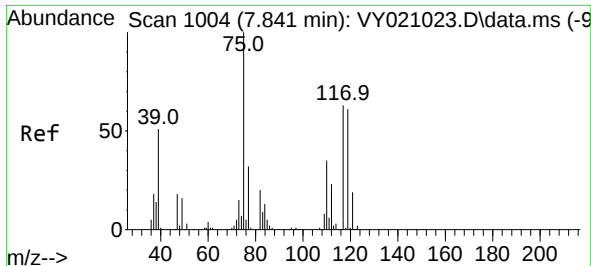
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	37.4
88	15.5	0.0	29.0



#35
Dibromofluoromethane
Concen: 45.266 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

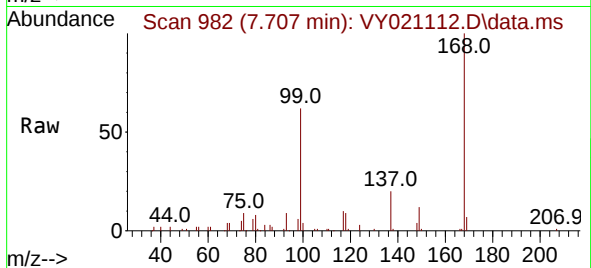
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.1	83.8	125.6
192	20.4	14.5	21.7



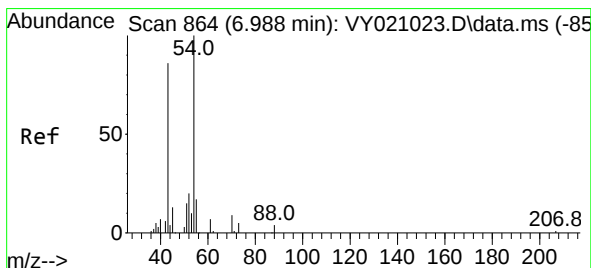
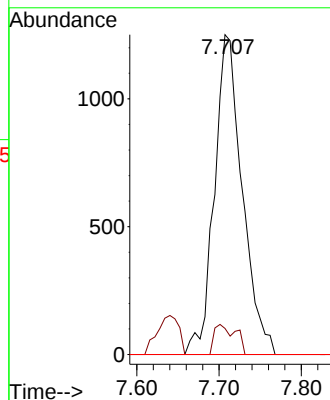
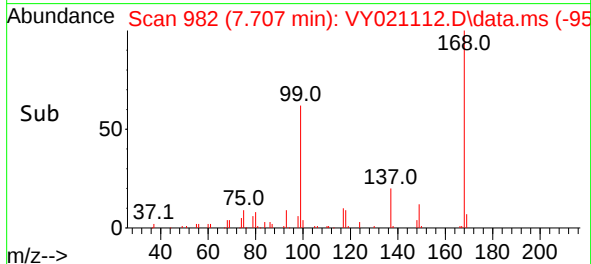


#36
1,1-Dichloropropene
Concen: 6.265 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

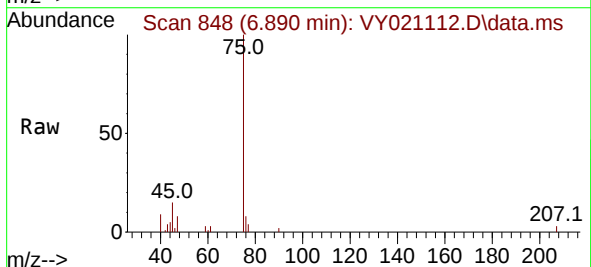
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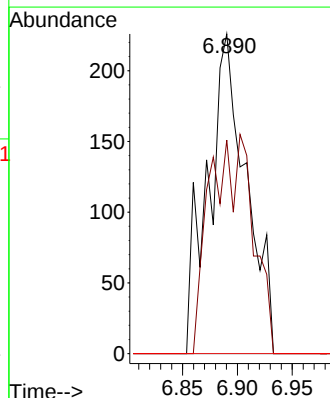
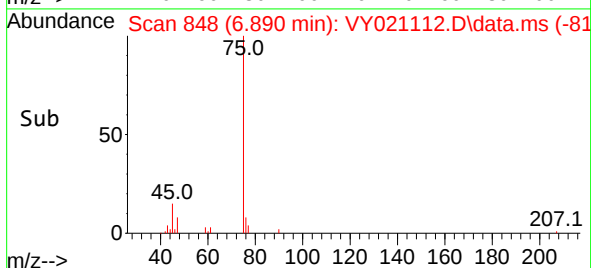
Tgt Ion: 75 Resp: 2942
Ion Ratio Lower Upper
75 100
110 7.2 17.4 52.3#
77 0.0 24.7 37.1#

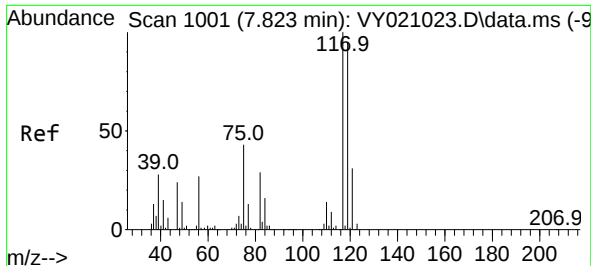


#37
Ethyl Acetate
Concen: 2.665 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.098 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35



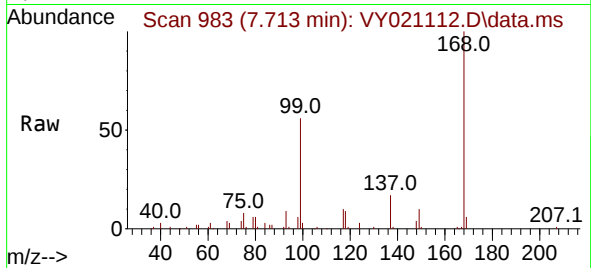
Tgt Ion: 43 Resp: 549
Ion Ratio Lower Upper
43 100
61 28.1 11.0 16.6#
70 0.0 8.1 12.1#



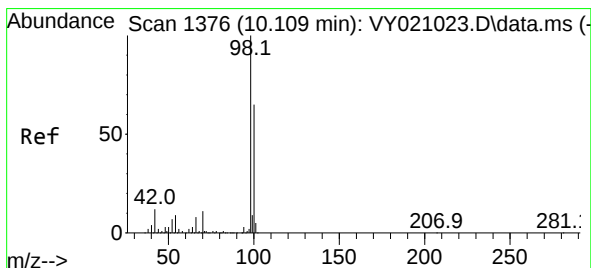
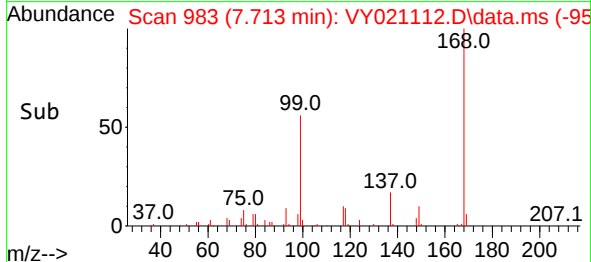
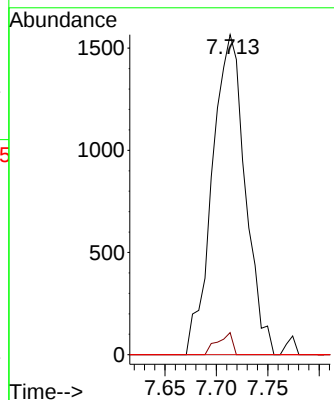


#38
Carbon Tetrachloride
Concen: 6.376 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Instrument :
MSVOA_Y
ClientSampleId :

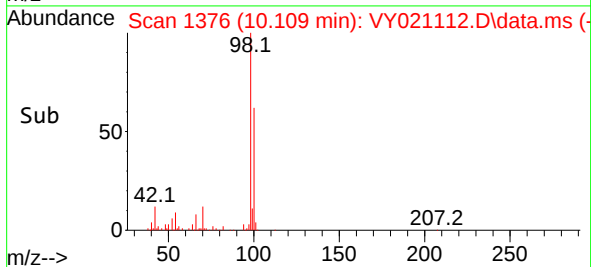
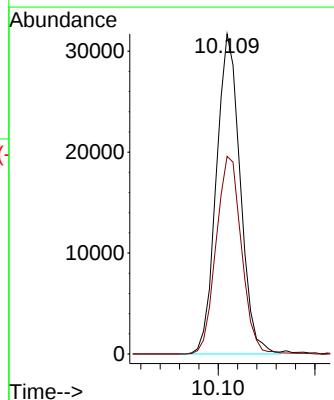
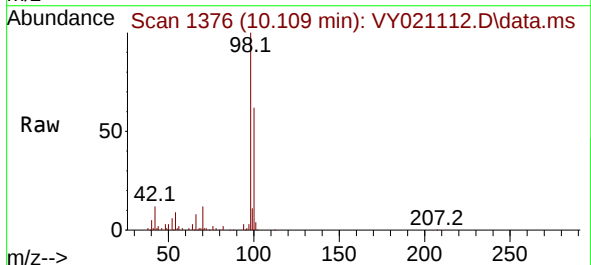


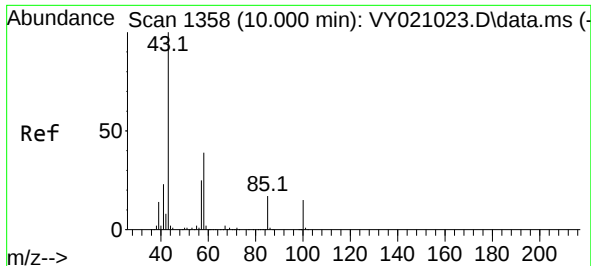
Tgt Ion:117 Resp: 3498
Ion Ratio Lower Upper
117 100
119 6.9 76.0 114.0#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 45.003 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 98 Resp: 54315
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5

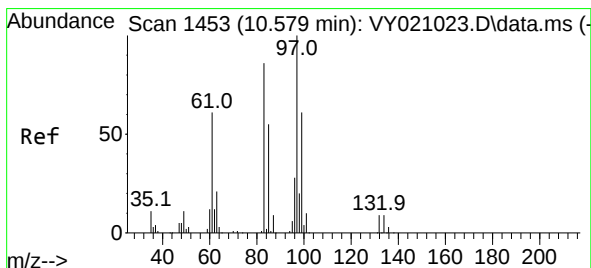
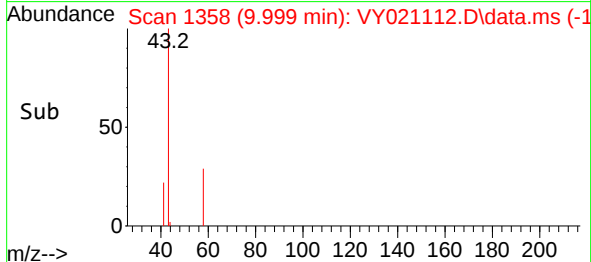
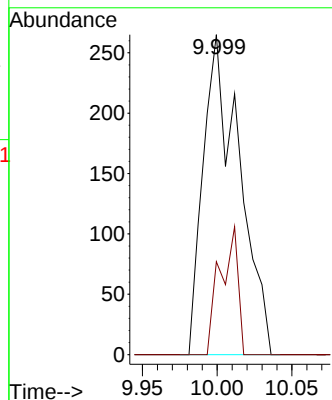
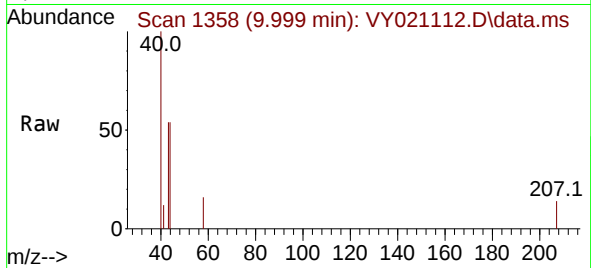




#51
4-Methyl-2-Pentanone
Concen: 2.147 ug/l
RT: 9.999 min Scan# 1449
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

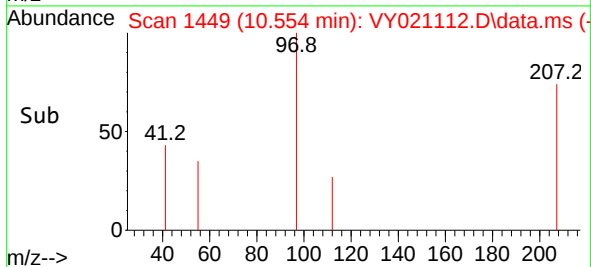
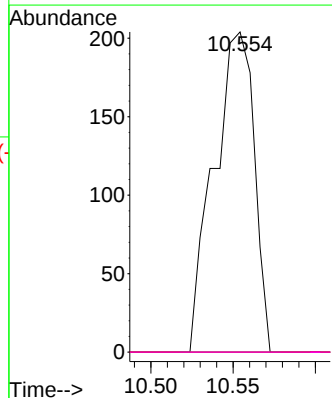
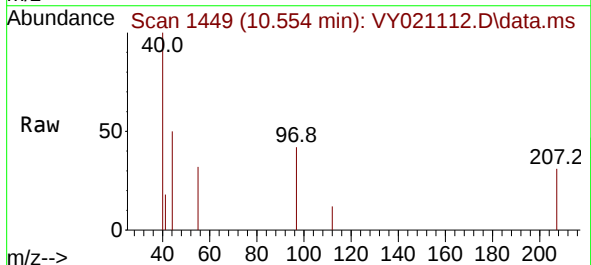
Instrument :
MSVOA_Y
ClientSampleId :

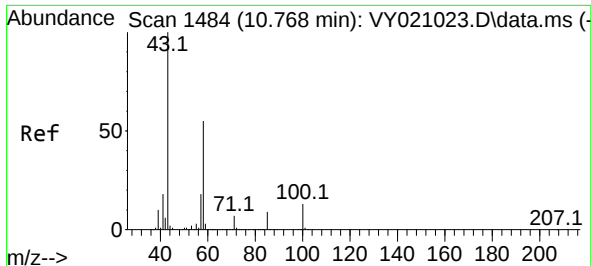
Tgt Ion: 43 Resp: 442
Ion Ratio Lower Upper
43 100
58 19.9 32.2 48.2#



#55
1,1,2-Trichloroethane
Concen: 1.488 ug/l
RT: 10.554 min Scan# 1449
Delta R.T. -0.025 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 97 Resp: 349
Ion Ratio Lower Upper
97 100
83 0.0 69.4 104.2#
85 0.0 43.9 65.9#
99 0.0 48.6 73.0#

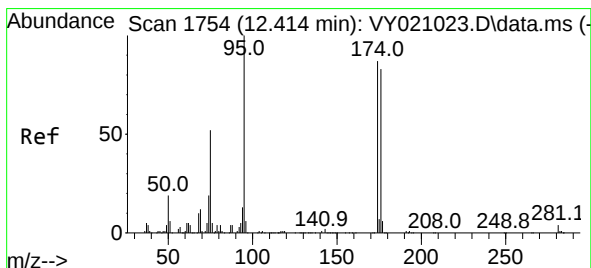
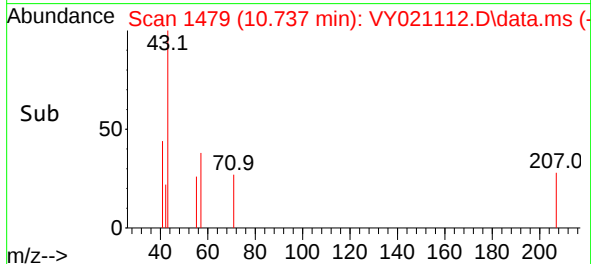
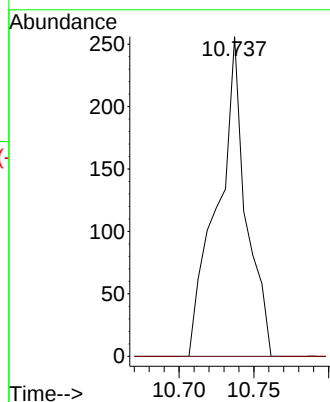
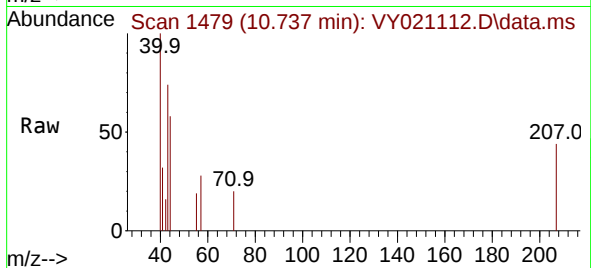




#59
2-Hexanone
Concen: 2.558 ug/l
RT: 10.737 min Scan# 1484
Delta R.T. -0.031 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

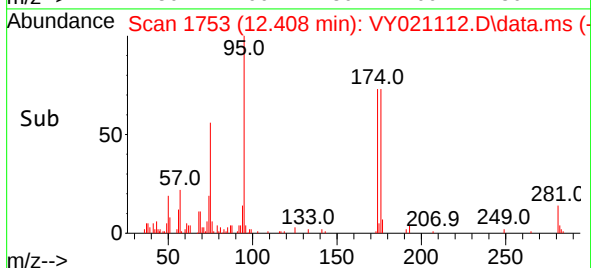
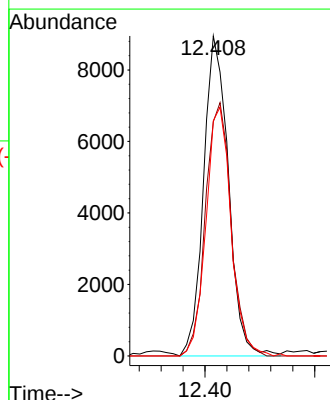
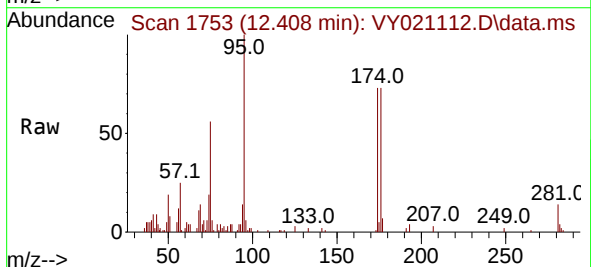
Instrument :
MSVOA_Y
ClientSampleId :

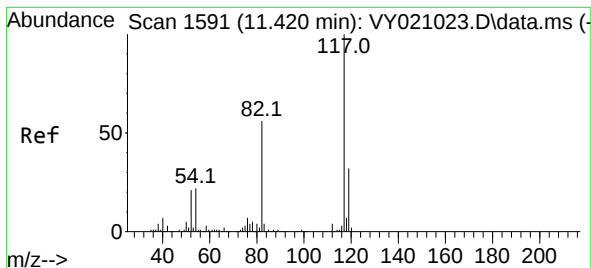
Tgt Ion: 43 Resp: 339
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 35.677 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 95 Resp: 14067
Ion Ratio Lower Upper
95 100
174 81.7 0.0 160.0
176 78.7 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021112.D

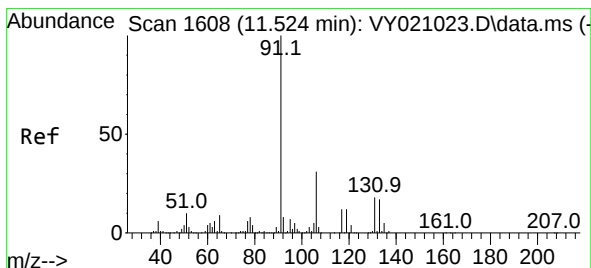
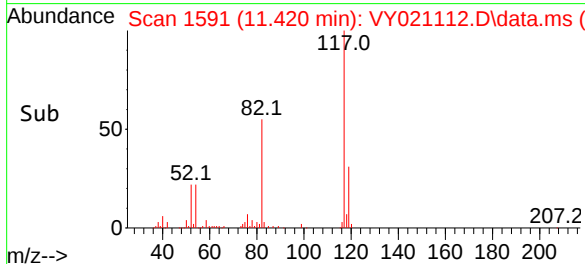
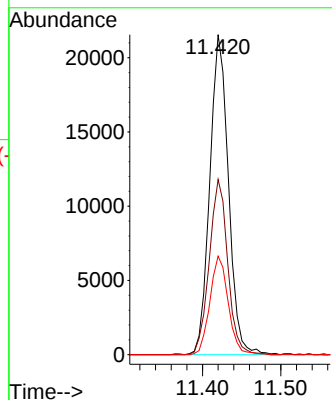
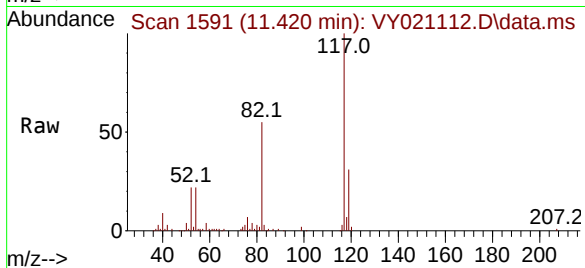
Acq: 06 Feb 2025 15:35

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	35601
Ion Ratio	Lower	Upper
117	100	
82	54.8	43.8 65.8
119	30.8	26.5 39.7



#67

Ethyl Benzene

Concen: 1.213 ug/l

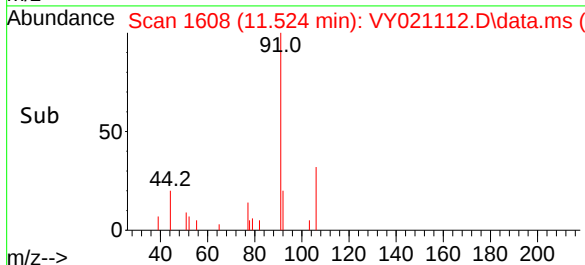
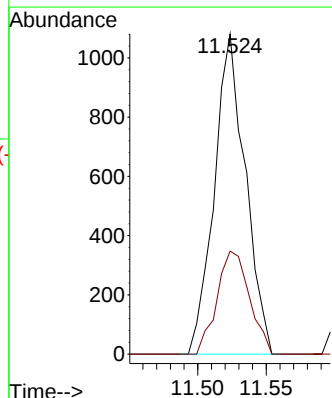
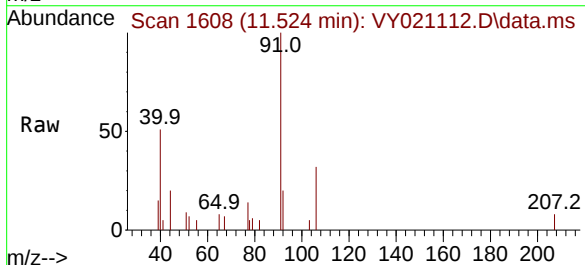
RT: 11.524 min Scan# 1608

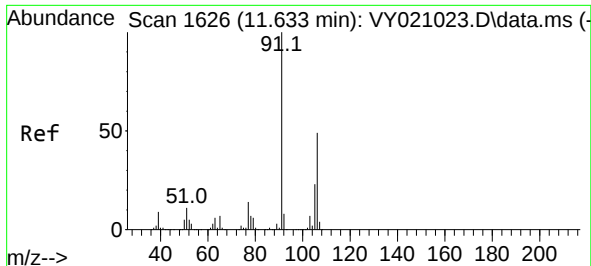
Delta R.T. -0.000 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Tgt Ion: 91	Resp:	1701
Ion Ratio	Lower	Upper
91	100	
106	32.2	25.0 37.4

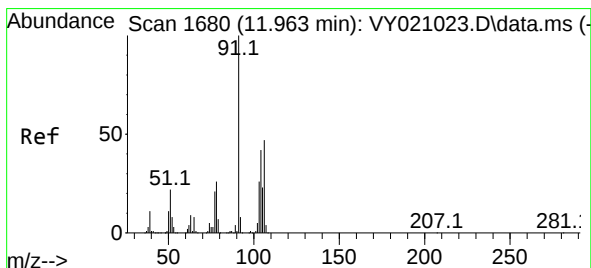
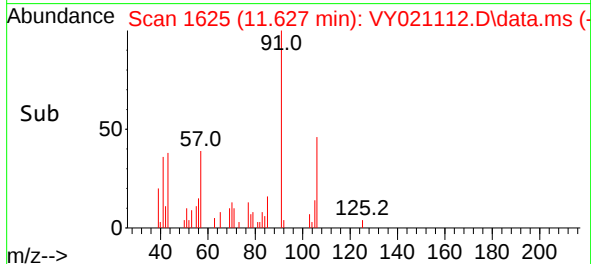
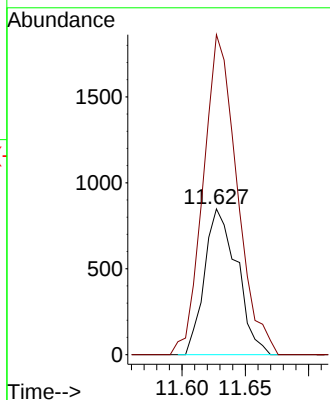
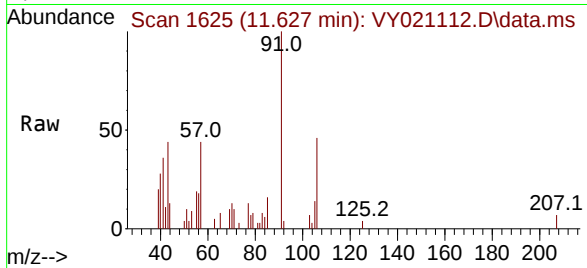




#68
m/p-Xylenes
Concen: 2.894 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

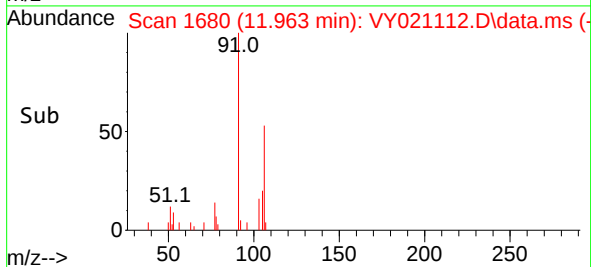
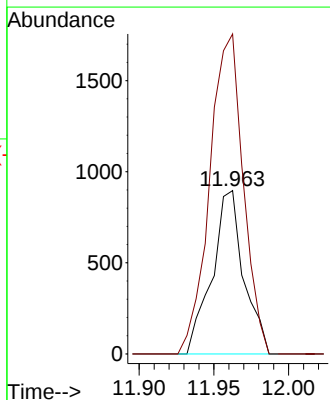
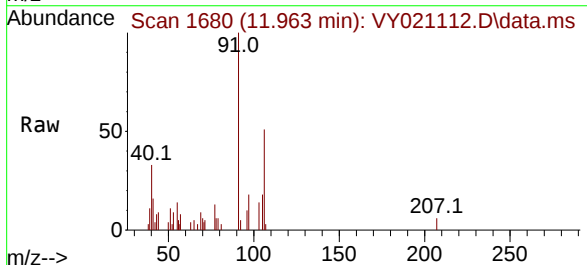
Instrument :
MSVOA_Y
ClientSampleId :

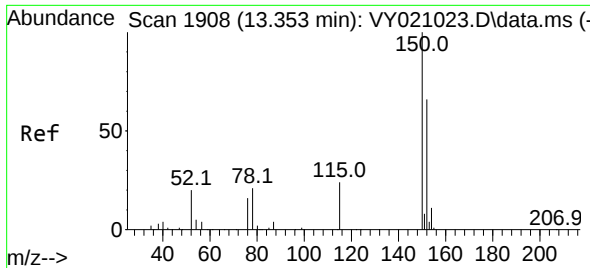
Tgt Ion:106 Resp: 1518
Ion Ratio Lower Upper
106 100
91 227.8 160.7 241.1



#69
o-Xylene
Concen: 2.703 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

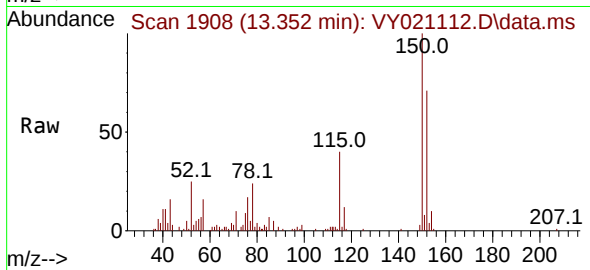
Tgt Ion:106 Resp: 1322
Ion Ratio Lower Upper
106 100
91 207.3 106.5 319.5



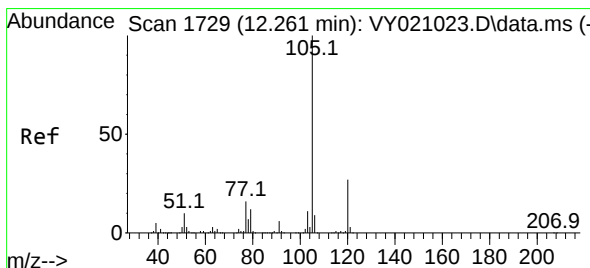
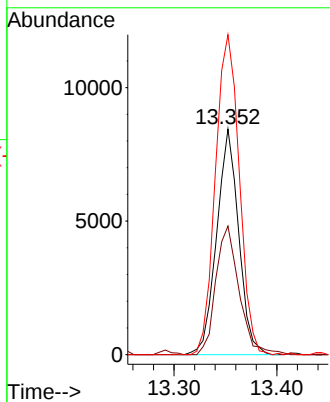
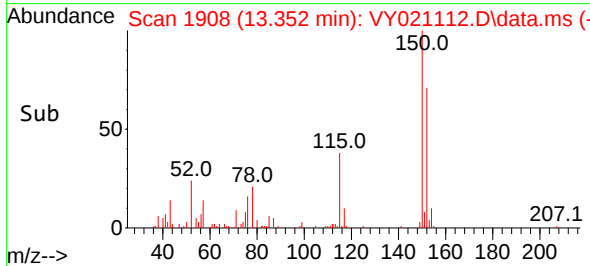


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Instrument :
MSVOA_Y
ClientSampleId :

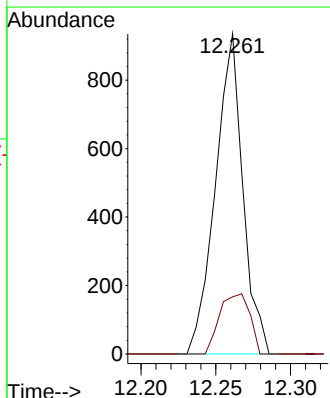
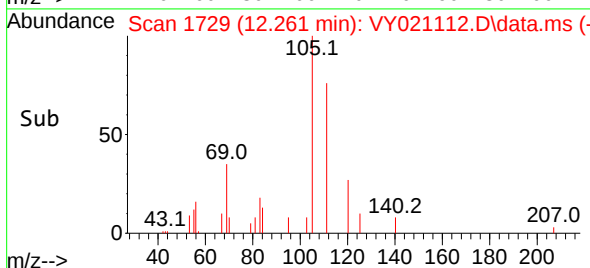
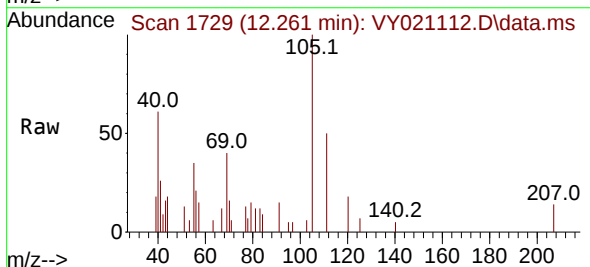


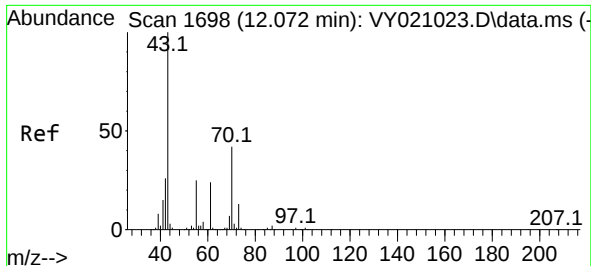
Tgt Ion:152 Resp: 12551
Ion Ratio Lower Upper
152 100
115 60.2 30.0 90.0
150 153.6 0.0 344.6



#73
Isopropylbenzene
Concen: 1.216 ug/l
RT: 12.261 min Scan# 1729
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

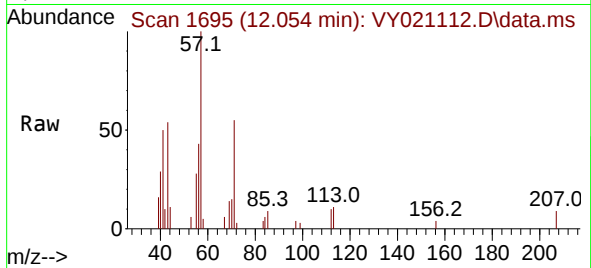
Tgt Ion:105 Resp: 1192
Ion Ratio Lower Upper
105 100
120 20.6 13.0 39.0



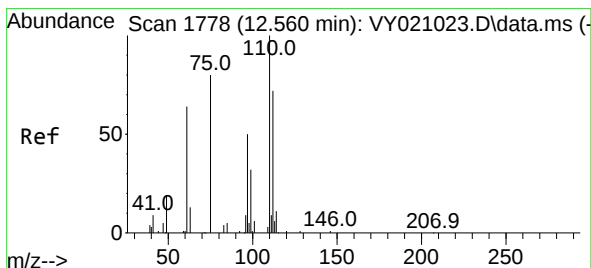
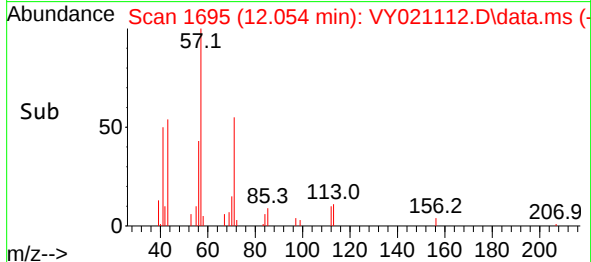
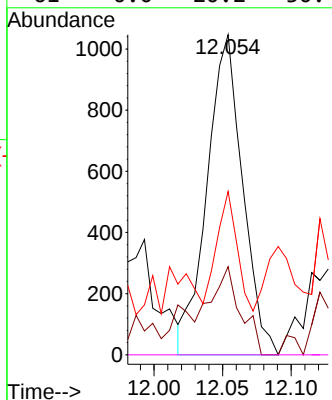


#74
N-amy1 acetate
Concen: 8.790 ug/l
RT: 12.054 min Scan# 1753
Delta R.T. -0.018 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Instrument :
MSVOA_Y
ClientSampleId :

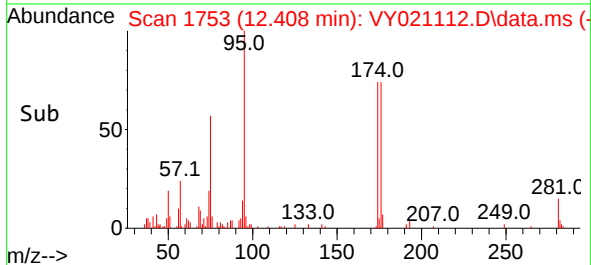
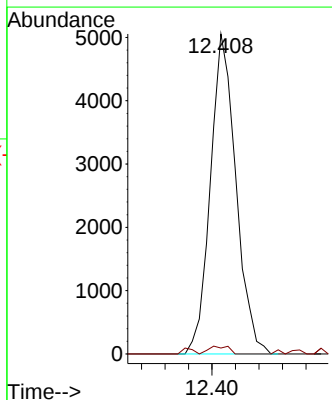
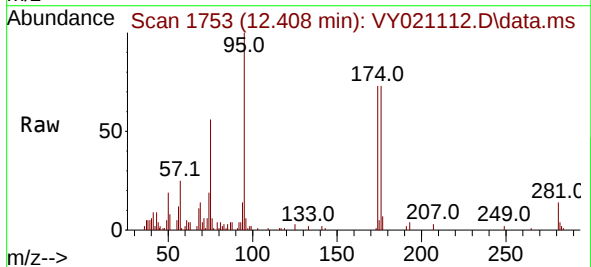


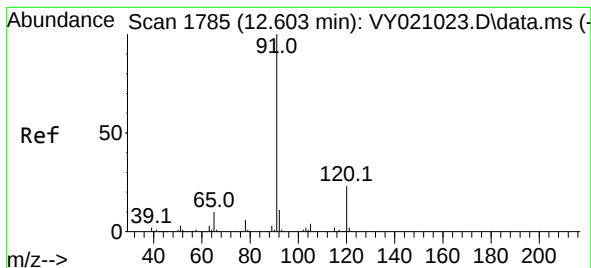
Tgt Ion: 43 Resp: 1884
Ion Ratio Lower Upper
43 100
70 24.0 36.6 55.0#
55 21.0 22.2 33.4#
61 0.0 20.2 30.4#



#76
1,2,3-Trichloropropane
Concen: 67.051 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.153 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 75 Resp: 7634
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#





#78

n-propylbenzene

Concen: 3.229 ug/l

RT: 12.597 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Instrument :

MSVOA_Y

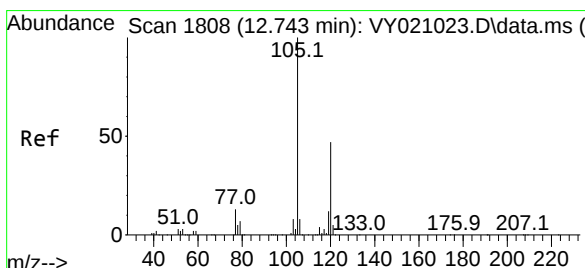
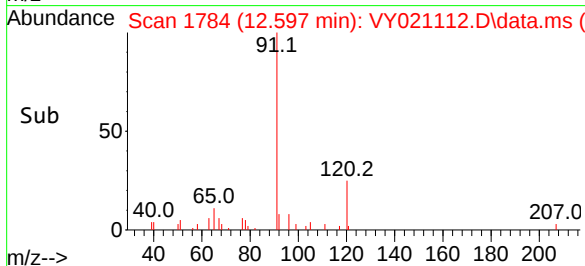
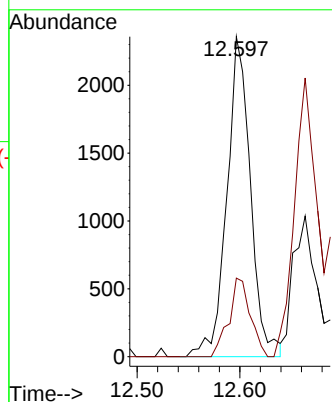
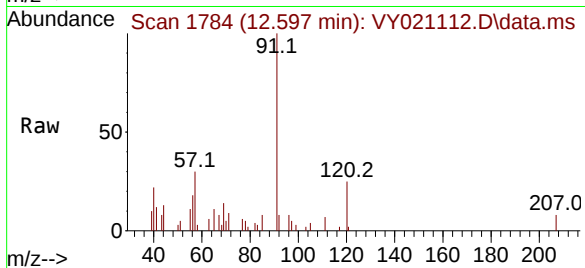
ClientSampleId :

Tgt Ion: 91 Resp: 3771

Ion Ratio Lower Upper

91 100

120 22.3 11.0 33.0



#80

1,3,5-Trimethylbenzene

Concen: 5.880 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VY021112.D

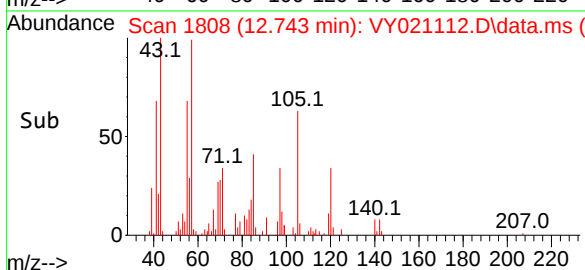
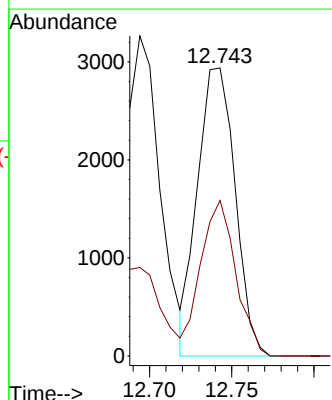
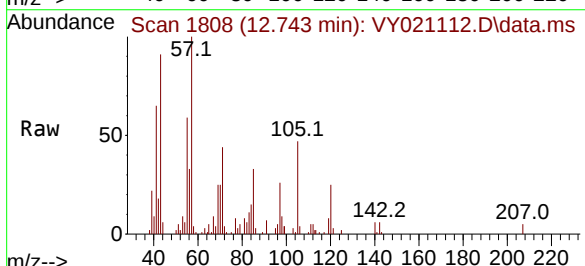
Acq: 06 Feb 2025 15:35

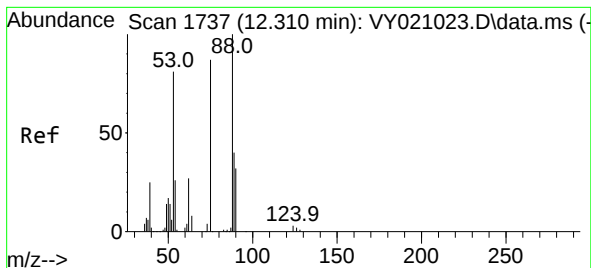
Tgt Ion: 105 Resp: 4674

Ion Ratio Lower Upper

105 100

120 50.6 24.3 72.8

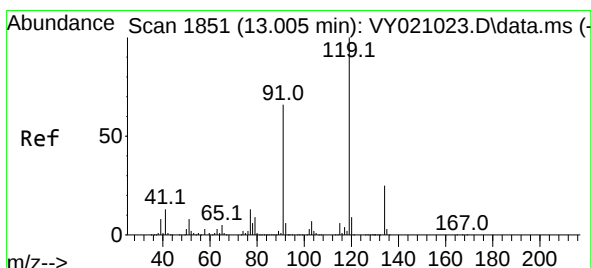
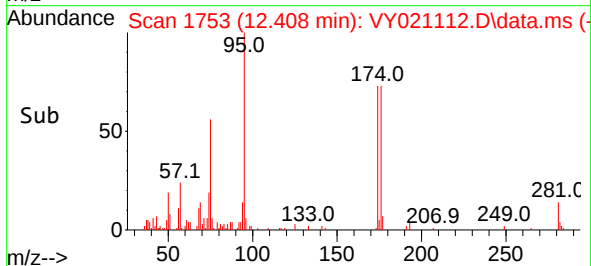
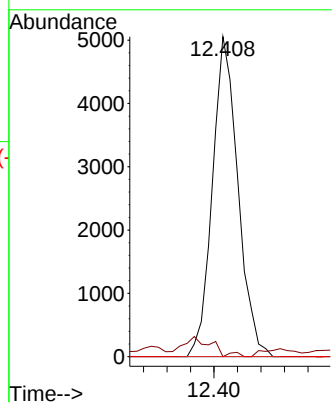
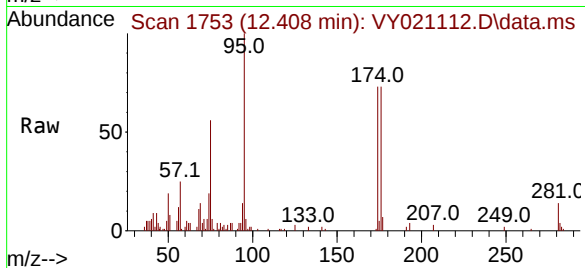




#81
 trans-1,4-Dichloro-2-butene
 Concen: 136.817 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.097 min
 Lab File: VY021112.D
 Acq: 06 Feb 2025 15:35

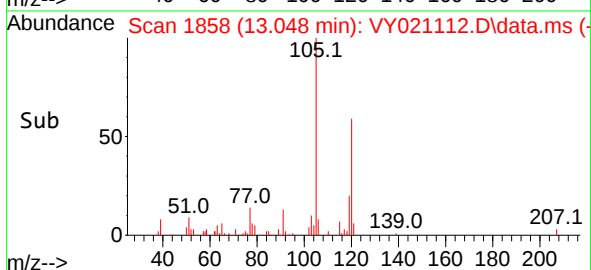
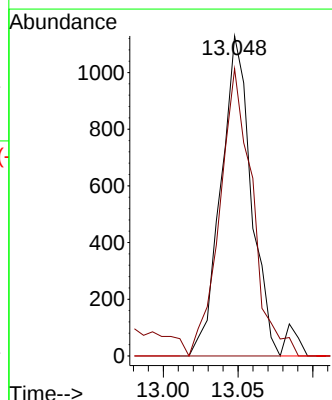
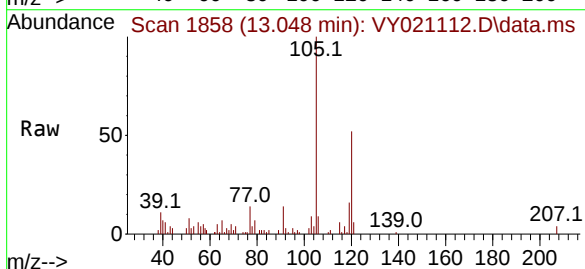
Instrument :
 MSVOA_Y
 ClientSampleId :

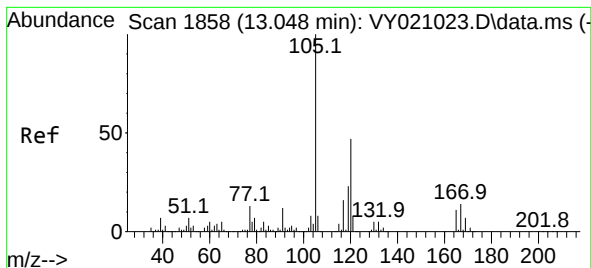
Tgt Ion: 75 Resp: 7634
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.0 111.0#
 89 0.0 36.5 54.7#



#83
 tert-Butylbenzene
 Concen: 2.197 ug/l
 RT: 13.048 min Scan# 1858
 Delta R.T. 0.042 min
 Lab File: VY021112.D
 Acq: 06 Feb 2025 15:35

Tgt Ion: 119 Resp: 1587
 Ion Ratio Lower Upper
 119 100
 91 96.7 31.5 94.5#
 134 0.0 13.1 39.3#





#84

1,2,4-Trimethylbenzene

Concen: 15.010 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Instrument :

MSVOA_Y

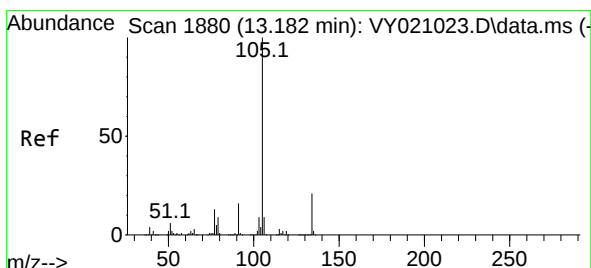
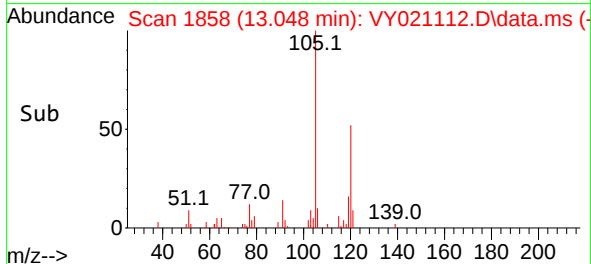
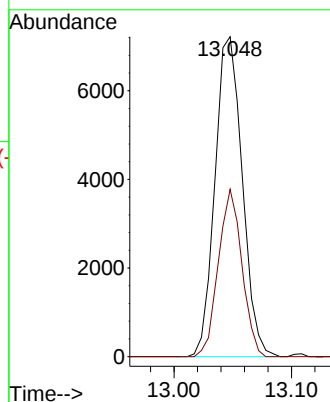
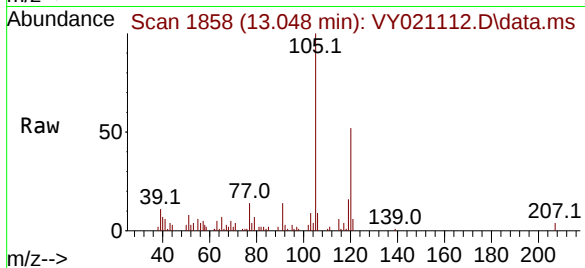
ClientSampleId :

Tgt Ion:105 Resp: 11666

Ion Ratio Lower Upper

105 100

120 45.1 22.1 66.3



#85

sec-Butylbenzene

Concen: 3.057 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.006 min

Lab File: VY021112.D

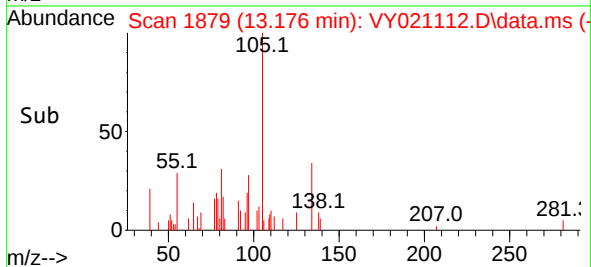
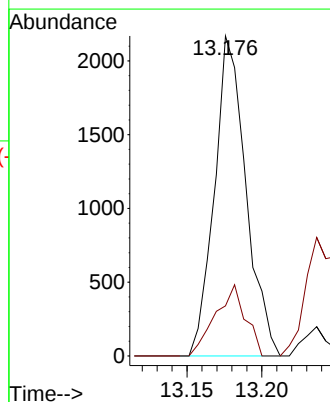
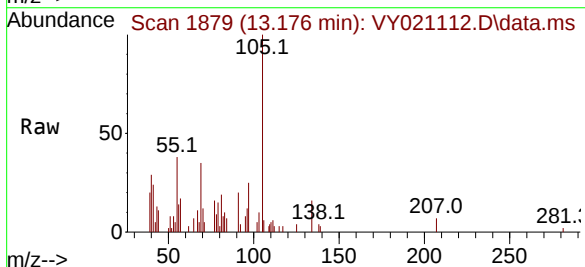
Acq: 06 Feb 2025 15:35

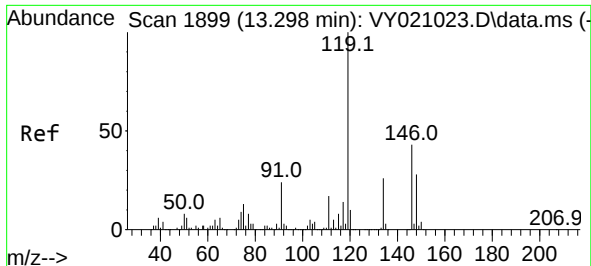
Tgt Ion:105 Resp: 3179

Ion Ratio Lower Upper

105 100

134 21.2 9.7 28.9

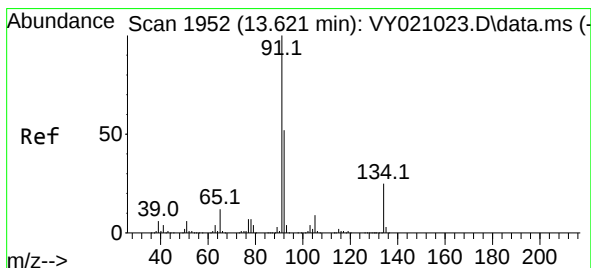
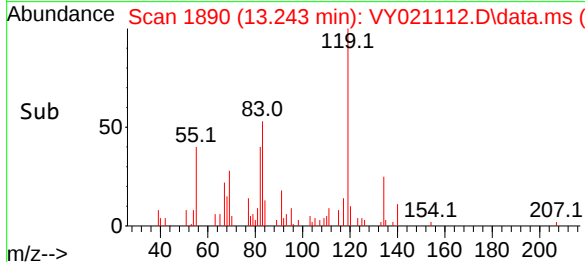
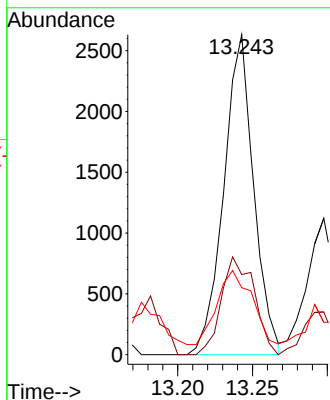
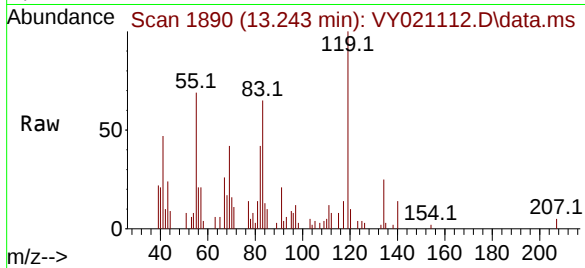




#86
p-Isopropyltoluene
Concen: 4.239 ug/l
RT: 13.243 min Scan# 1890
Delta R.T. -0.055 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

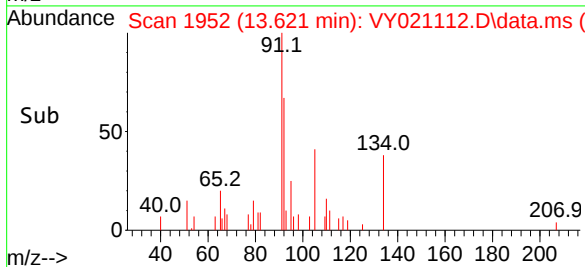
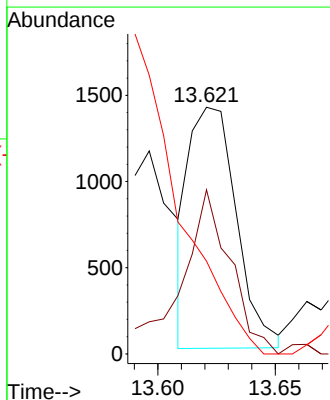
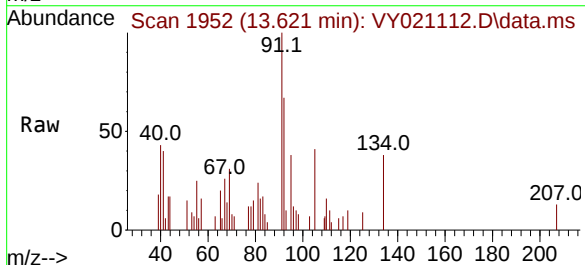
Instrument :
MSVOA_Y
ClientSampleId :

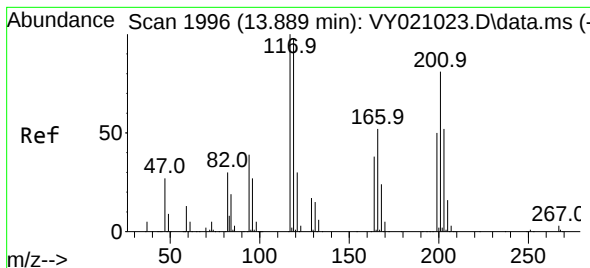
Tgt Ion:119 Resp: 3662
Ion Ratio Lower Upper
119 100
134 33.4 13.1 39.1
91 26.6 11.7 35.0



#89
n-Butylbenzene
Concen: 2.480 ug/l
RT: 13.621 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VY021112.D
Acq: 06 Feb 2025 15:35

Tgt Ion: 91 Resp: 1955
Ion Ratio Lower Upper
91 100
92 73.5 26.4 79.2
134 0.0 12.3 36.8#





#90

Hexachloroethane

Concen: 4.755 ug/l

RT: 13.895 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Instrument :

MSVOA_Y

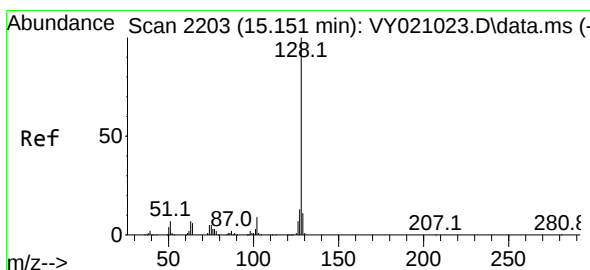
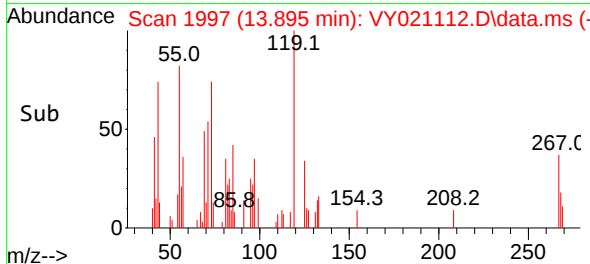
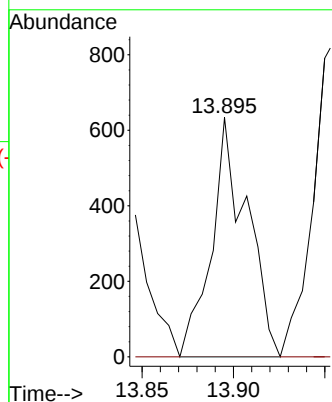
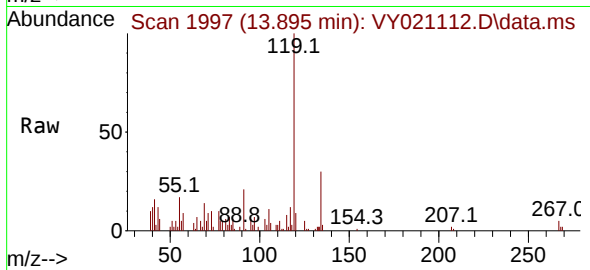
ClientSampleId :

Tgt Ion:117 Resp: 857

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.1#



#95

Naphthalene

Concen: 10.514 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021112.D

Acq: 06 Feb 2025 15:35

Tgt Ion:128 Resp: 3550

Ion Ratio Lower Upper

128 100

127 15.4 10.2 15.4

129 16.2 8.6 12.8#

