

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022345.D
 Acq On : 20 May 2025 16:09
 Operator : SY/MD
 Sample : Q2075-03
 Misc : 5.75g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SS-11

Quant Time: May 21 01:51:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

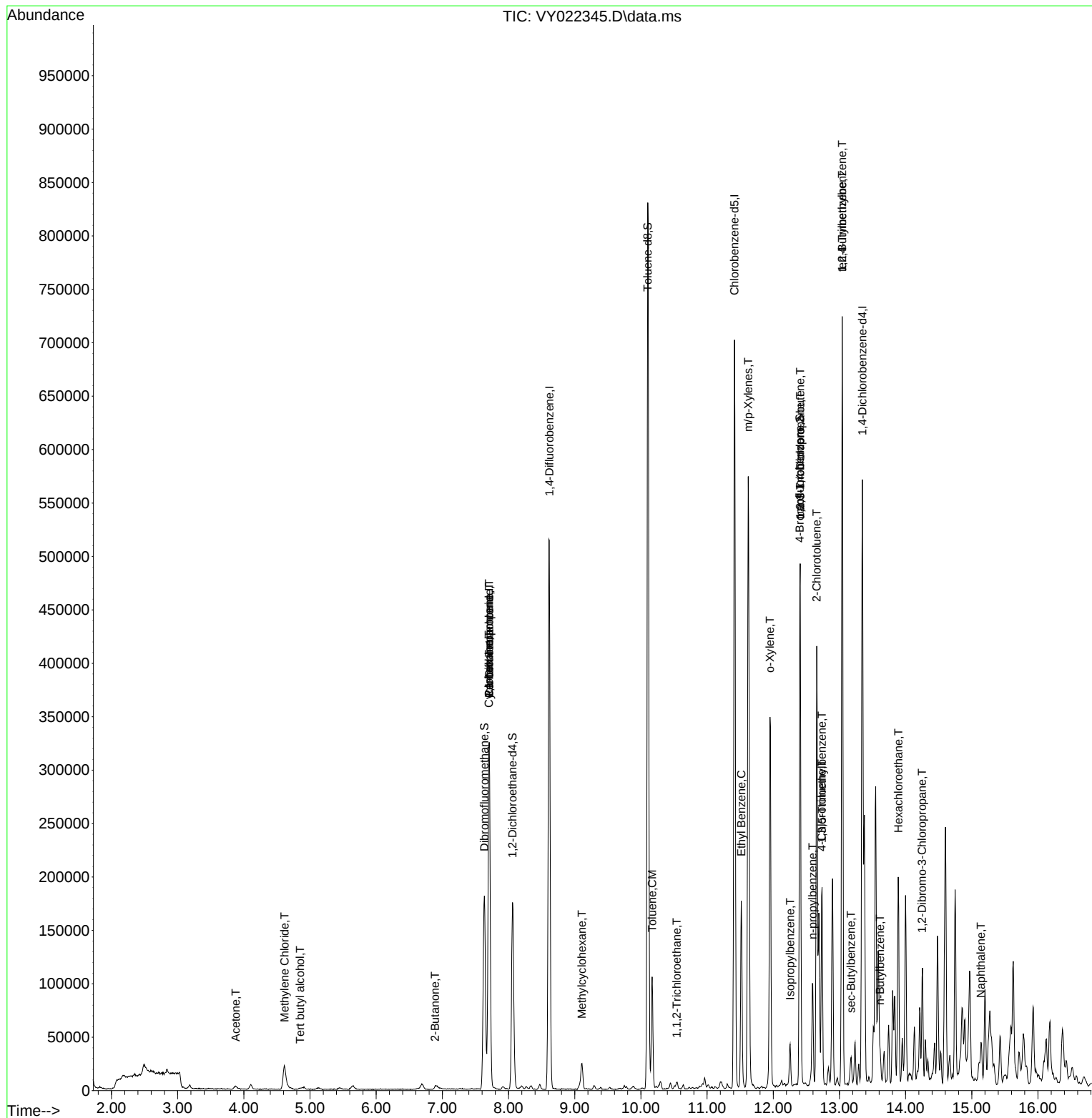
Internal Standards						
1) Pentafluorobenzene	7.707	168	239791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	432569	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	345893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	122461	46.729	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.460%		
35) Dibromofluoromethane	7.634	113	125981	48.795	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.600%		
50) Toluene-d8	10.103	98	514605	48.667	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.340%		
62) 4-Bromofluorobenzene	12.401	95	132386	39.499	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	79.000%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.848	59	924	4.617	ug/l #	100
16) Acetone	3.879	43	5473	11.138	ug/l #	89
20) Methylene Chloride	4.616	84	14696	4.628	ug/l	94
25) 2-Butanone	6.890	43	1067	1.298	ug/l #	82
31) Cyclohexane	7.701	56	10975	2.070	ug/l #	60
36) 1,1-Dichloropropene	7.707	75	21041	4.948	ug/l #	53
38) Carbon Tetrachloride	7.707	117	25312	5.750	ug/l #	16
39) Methylcyclohexane	9.109	83	10764	1.884	ug/l	88
52) Toluene	10.170	92	42034	5.265	ug/l	98
55) 1,1,2-Trichloroethane	10.542	97	2395	1.141	ug/l #	18
67) Ethyl Benzene	11.517	91	114266	7.819	ug/l	100
68) m/p-Xylenes	11.621	106	163448	29.680	ug/l	96
69) o-Xylene	11.950	106	87953	16.880	ug/l	100
73) Isopropylbenzene	12.255	105	23017	2.127	ug/l	94
76) 1,2,3-Trichloropropane	12.407	75	78072	58.986	ug/l #	100
78) n-propylbenzene	12.596	91	70774	5.421	ug/l	99
79) 2-Chlorotoluene	12.657	91	31108	4.336	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	86309	9.879	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.407	75	78072	119.491	ug/l #	12
82) 4-Chlorotoluene	12.731	91	10464	1.418	ug/l #	41
83) tert-Butylbenzene	13.041	119	44568	5.739	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.041	105	350537	40.417	ug/l	97
85) sec-Butylbenzene	13.176	105	16558	1.436	ug/l	87
89) n-Butylbenzene	13.615	91	13194	1.439	ug/l #	74
90) Hexachloroethane	13.889	117	5715	2.920	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.249	75	553	2.060	ug/l #	1
95) Naphthalene	15.139	128	28362	6.527	ug/l #	94

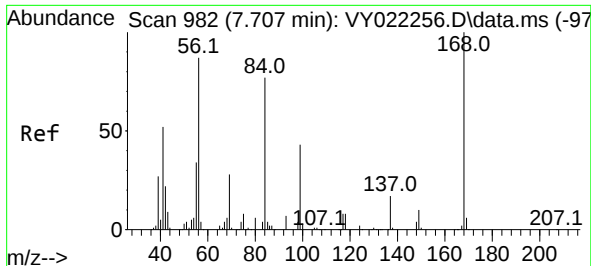
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
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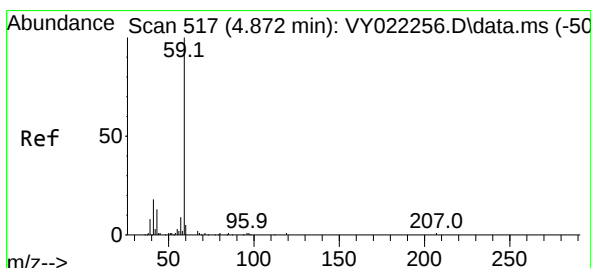
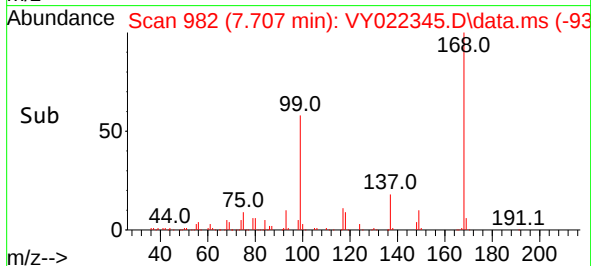
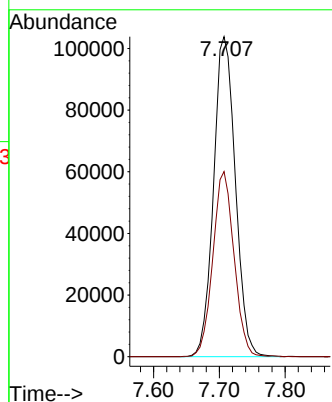
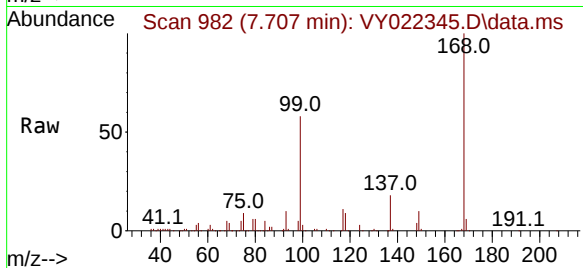




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

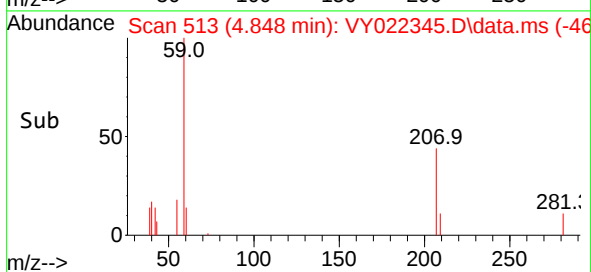
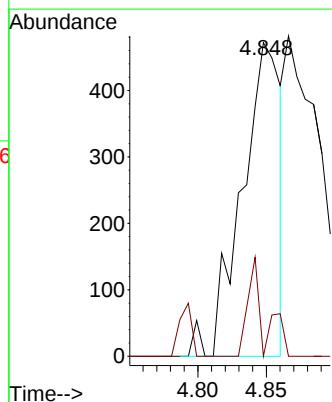
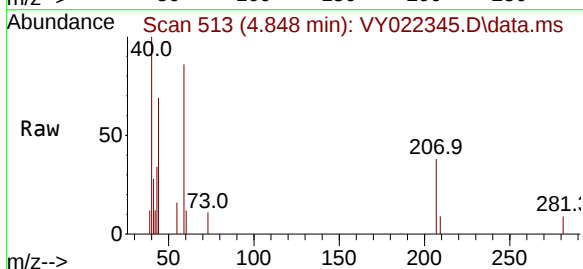
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

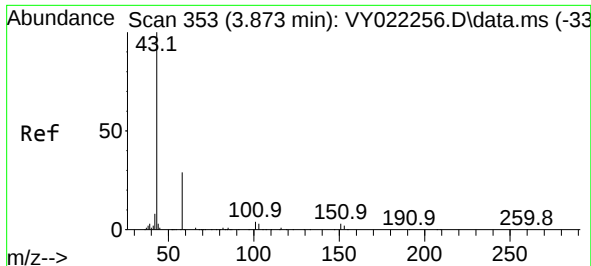
Tgt Ion:168 Resp: 239791
Ion Ratio Lower Upper
168 100
99 57.8 44.2 66.4



#11
Tert butyl alcohol
Concen: 4.617 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.024 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 59 Resp: 924
Ion Ratio Lower Upper
59 100
57 13.9 0.0 0.0#

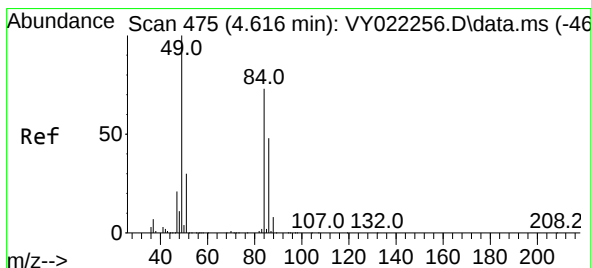
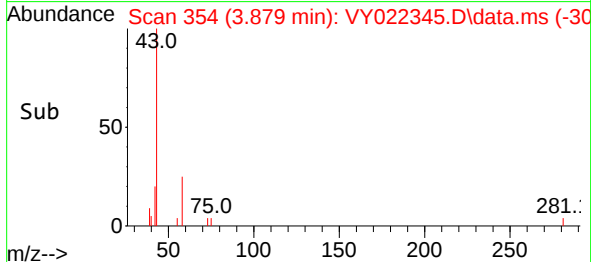
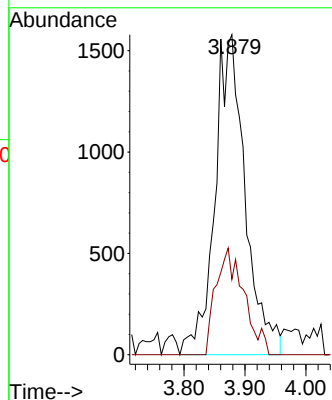
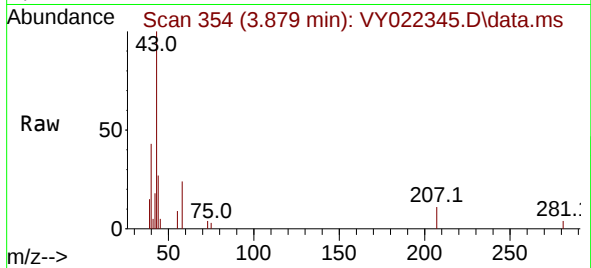




#16
Acetone
Concen: 11.138 ug/l
RT: 3.879 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

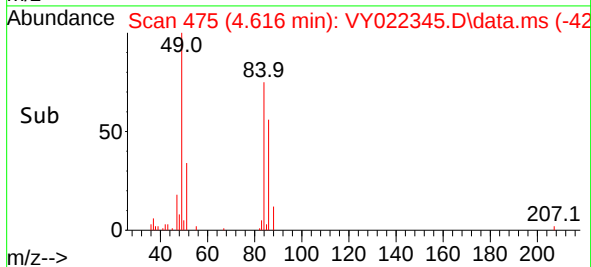
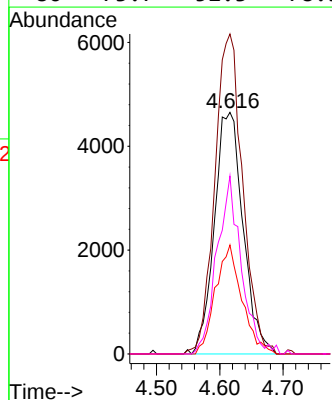
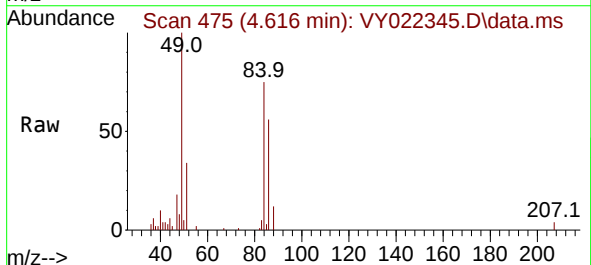
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

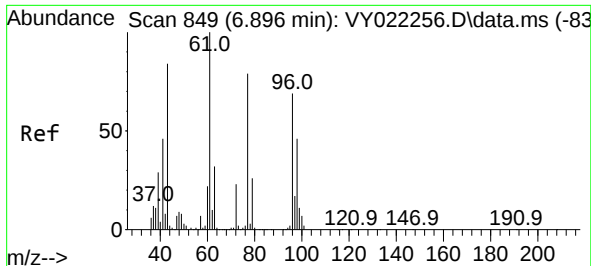
Tgt Ion: 43 Resp: 5473
Ion Ratio Lower Upper
43 100
58 23.6 23.6 35.4#



#20
Methylene Chloride
Concen: 4.628 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 84 Resp: 14696
Ion Ratio Lower Upper
84 100
49 132.5 109.6 164.4
51 45.1 32.4 48.6
86 73.7 52.3 78.5

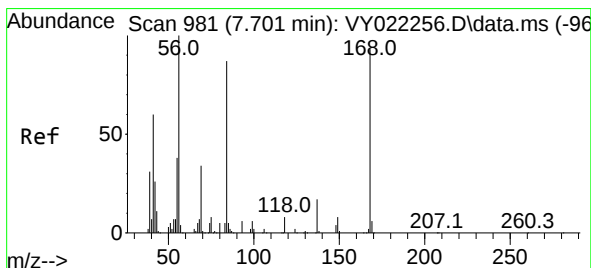
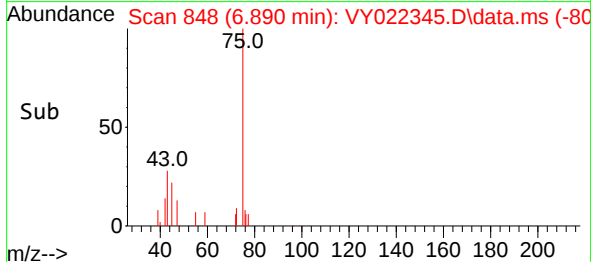
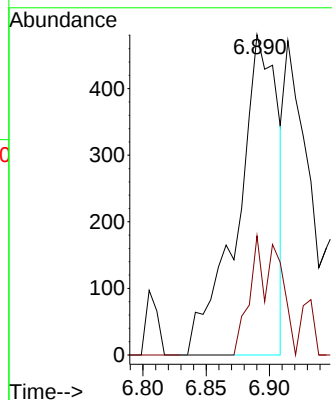
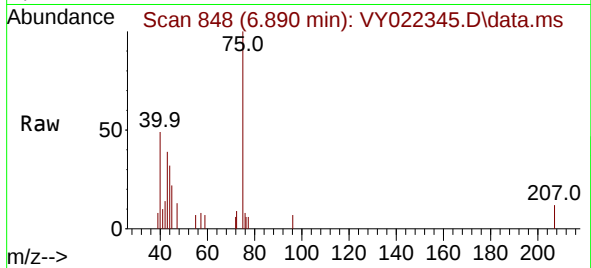




#25
2-Butanone
Concen: 1.298 ug/l
RT: 6.890 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

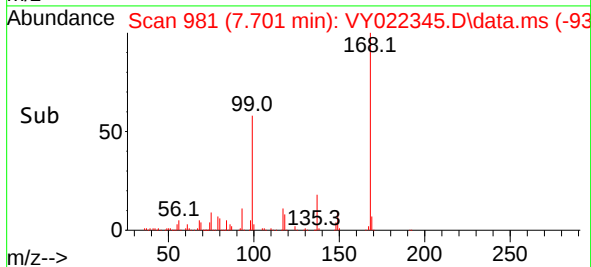
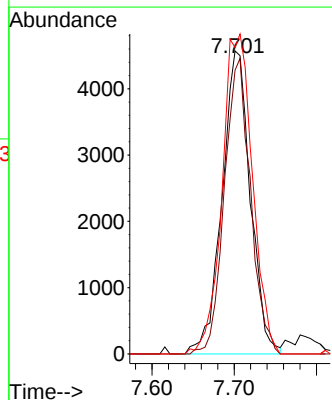
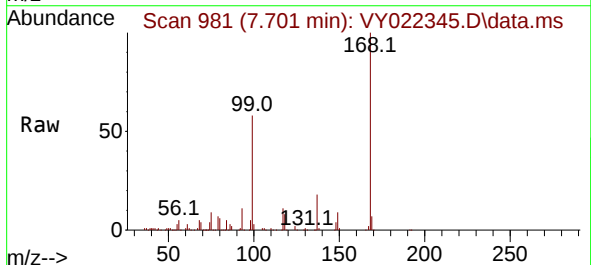
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

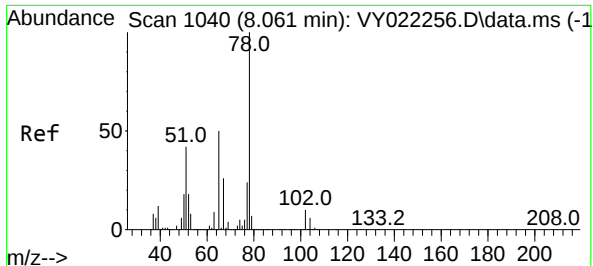
Tgt Ion: 43 Resp: 1067
Ion Ratio Lower Upper
43 100
72 37.2 22.1 33.1#



#31
Cyclohexane
Concen: 2.070 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 56 Resp: 10975
Ion Ratio Lower Upper
56 100
69 93.7 27.4 41.2#
84 101.2 70.0 105.0





#33

1,2-Dichloroethane-d4

Concen: 46.729 ug/l

RT: 8.061 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

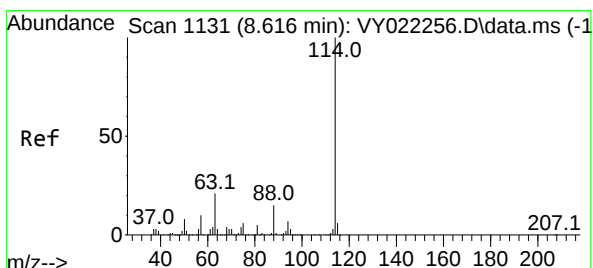
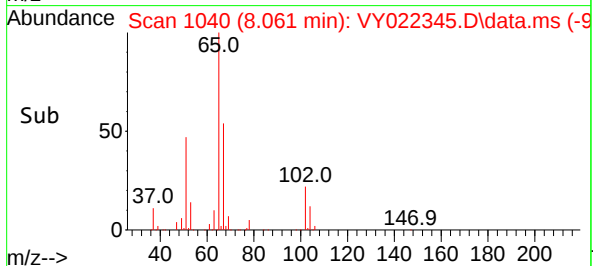
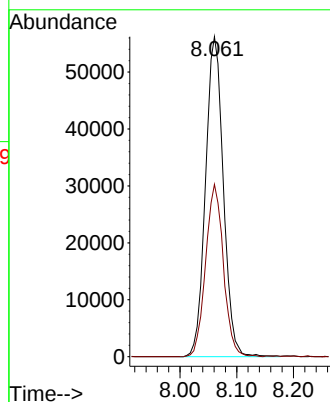
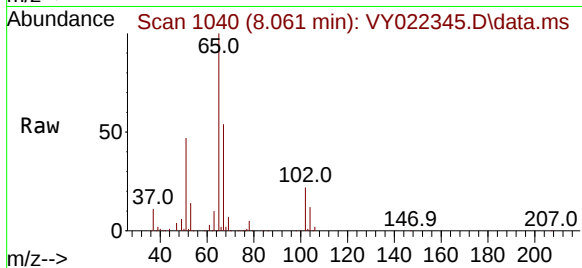
SS-11

Tgt Ion: 65 Resp: 122461

Ion Ratio Lower Upper

65 100

67 53.7 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

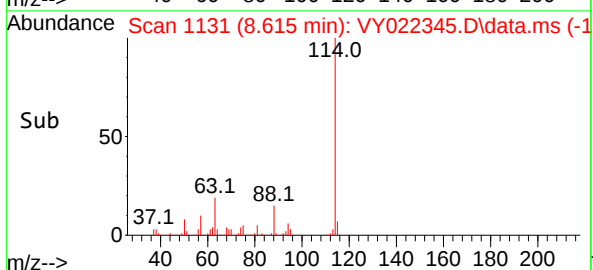
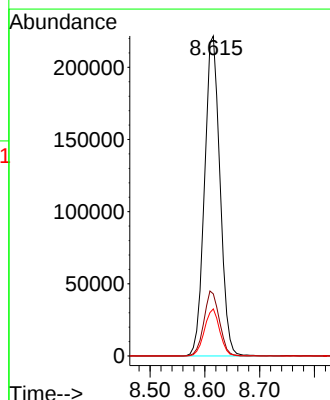
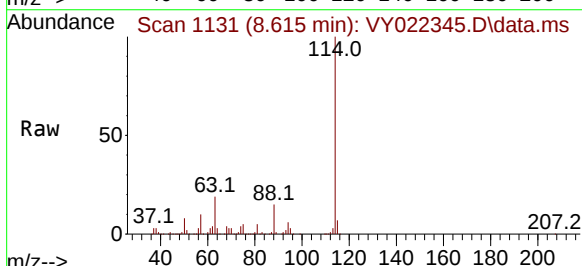
Tgt Ion:114 Resp: 432569

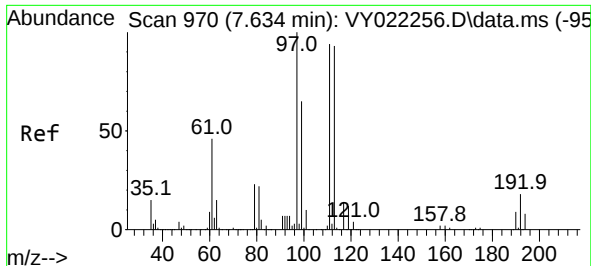
Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.0

88 14.7 0.0 29.4





#35

Dibromofluoromethane

Concen: 48.795 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY022345.D

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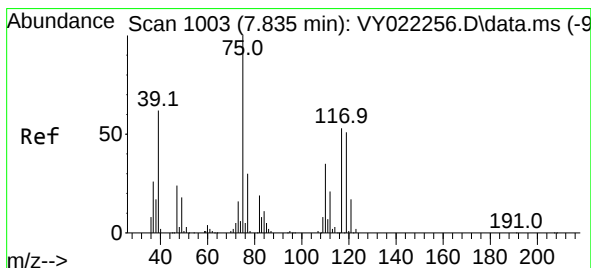
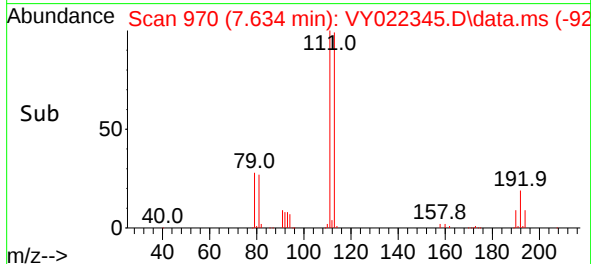
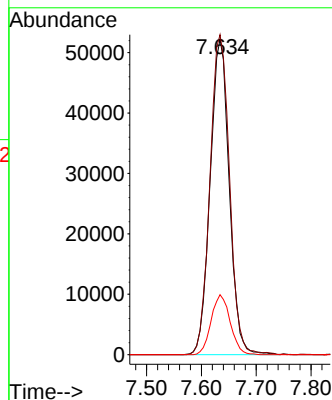
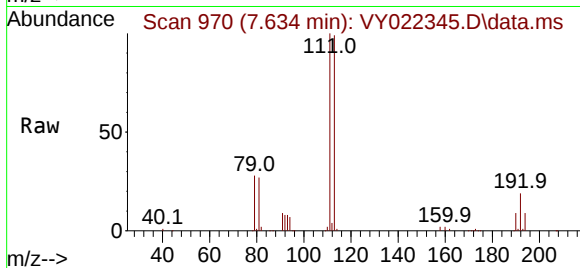
Tgt Ion:113 Resp: 125981

Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

192 19.0 15.2 22.8



#36

1,1-Dichloropropene

Concen: 4.948 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

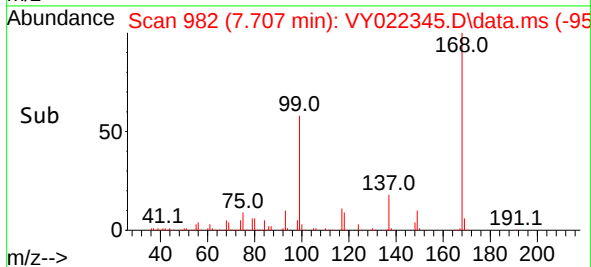
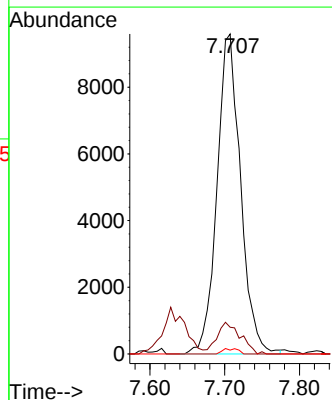
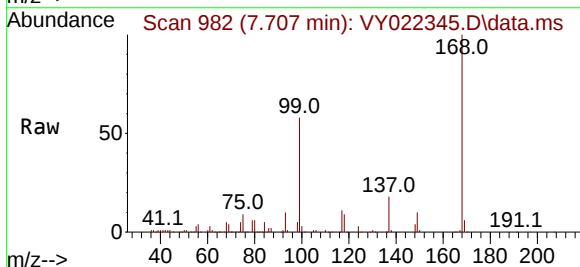
Tgt Ion: 75 Resp: 21041

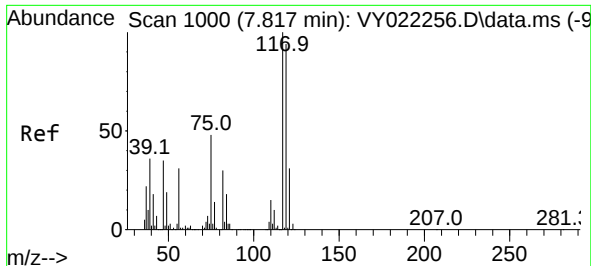
Ion Ratio Lower Upper

75 100

110 10.0 16.6 49.8#

77 1.1 24.6 37.0#

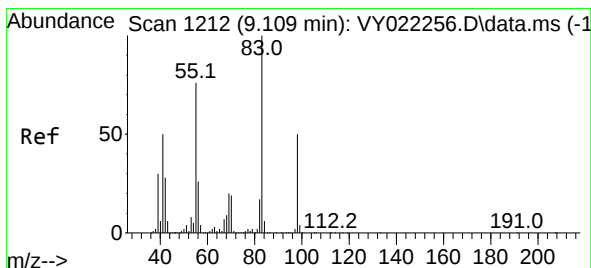
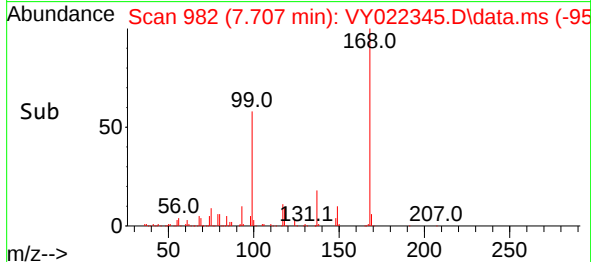
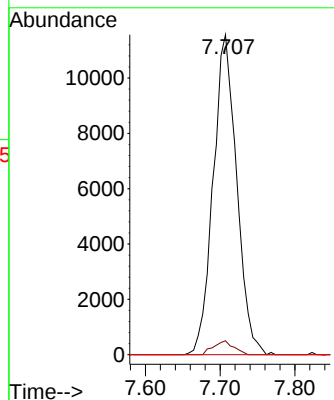
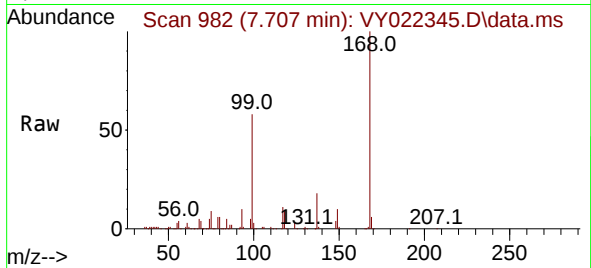




#38
Carbon Tetrachloride
Concen: 5.750 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

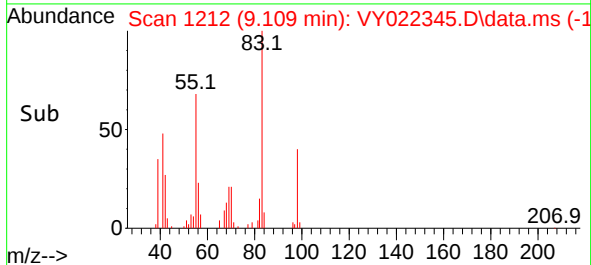
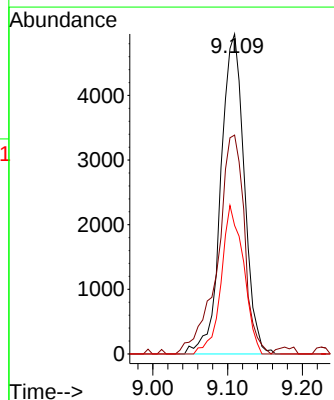
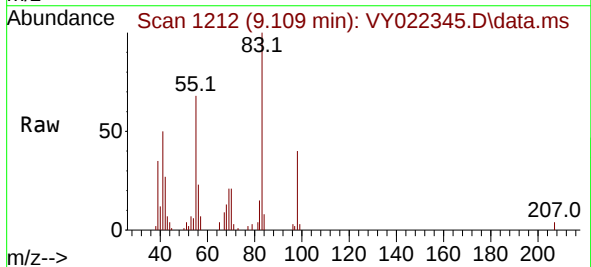
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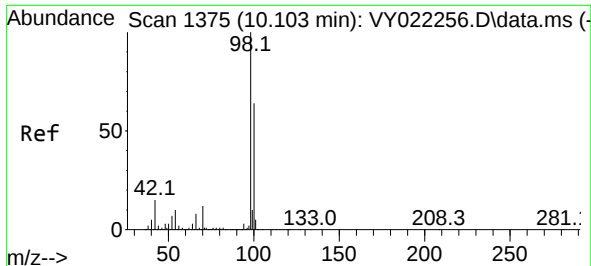
Tgt Ion:117 Resp: 25312
Ion Ratio Lower Upper
117 100
119 4.3 75.3 112.9#
121 0.0 24.7 37.1#



#39
Methylcyclohexane
Concen: 1.884 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 83 Resp: 10764
Ion Ratio Lower Upper
83 100
55 67.3 60.6 90.8
98 40.1 40.0 60.0

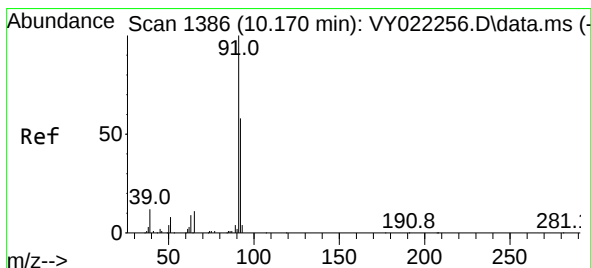
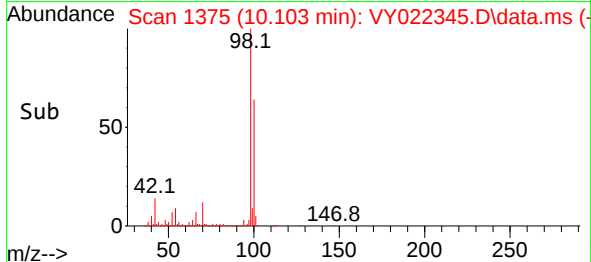
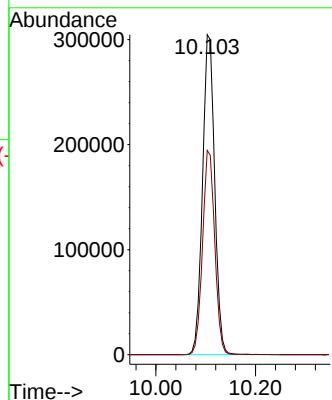
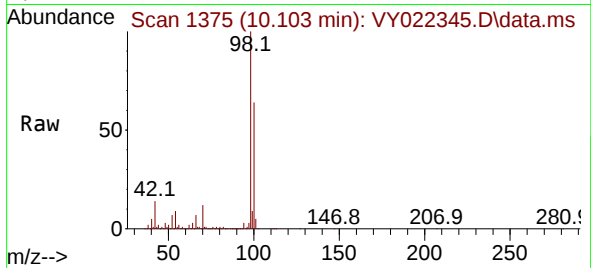




#50
Toluene-d8
Concen: 48.667 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

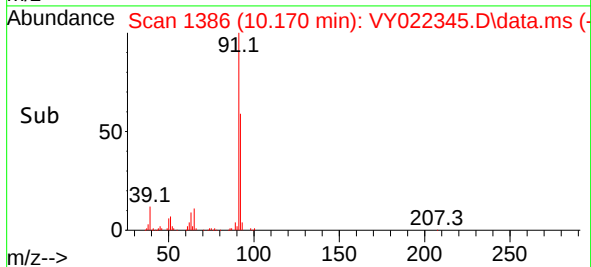
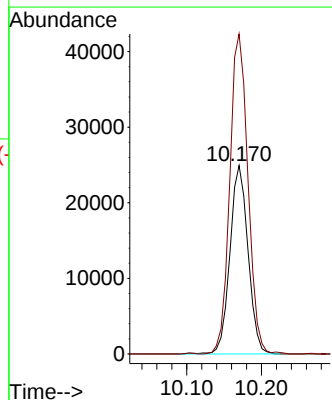
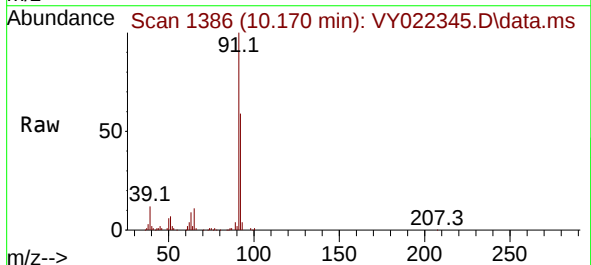
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

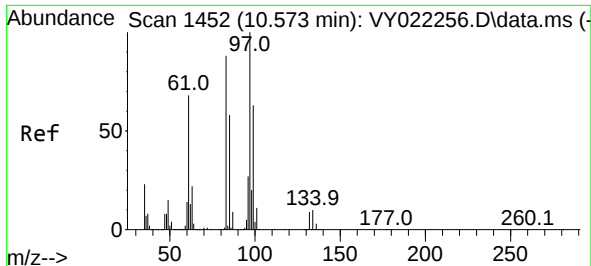
Tgt Ion: 98 Resp: 514605
Ion Ratio Lower Upper
98 100
100 64.1 51.8 77.8



#52
Toluene
Concen: 5.265 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 92 Resp: 42034
Ion Ratio Lower Upper
92 100
91 170.5 139.1 208.7

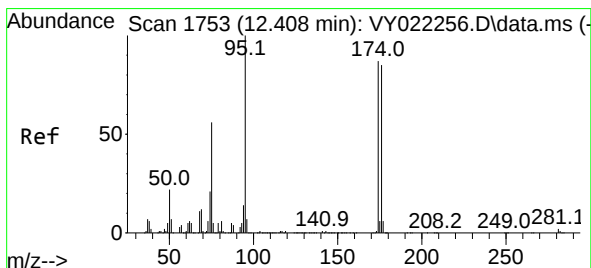
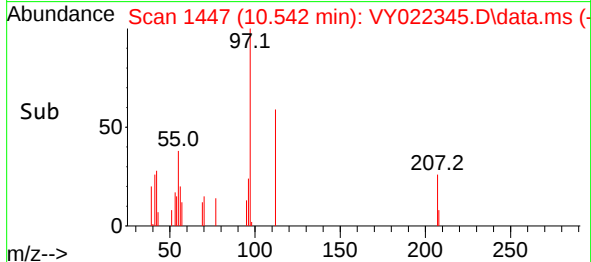
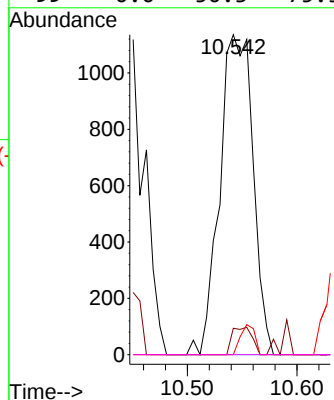
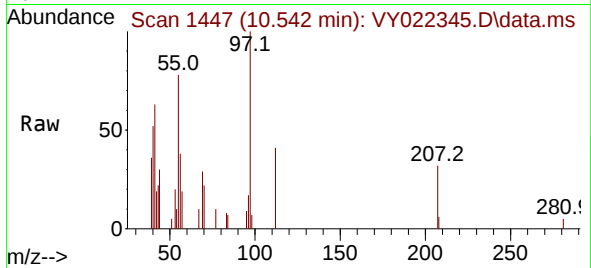




#55
1,1,2-Trichloroethane
Concen: 1.141 ug/l
RT: 10.542 min Scan# 1452
Delta R.T. -0.031 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

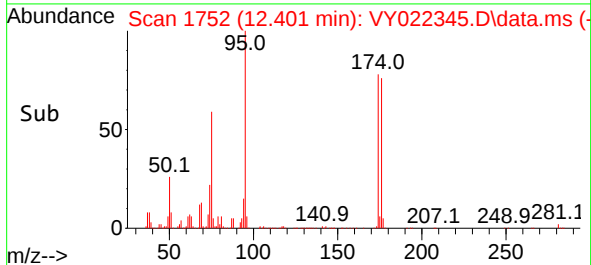
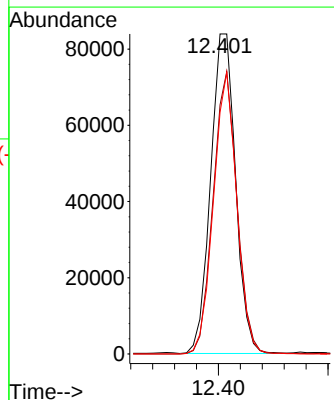
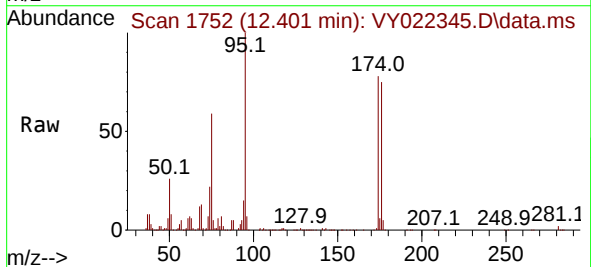
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

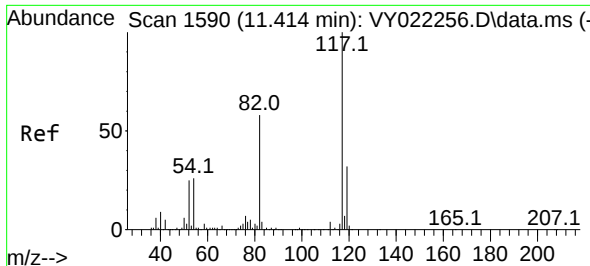
Tgt Ion:	97	Resp:	2395
Ion	Ratio	Lower	Upper
97	100		
83	8.3	70.3	105.5#
85	0.0	46.2	69.4#
99	0.0	50.3	75.5#



#62
4-Bromofluorobenzene
Concen: 39.499 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:	95	Resp:	132386
Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	166.8
176	82.3	0.0	160.8

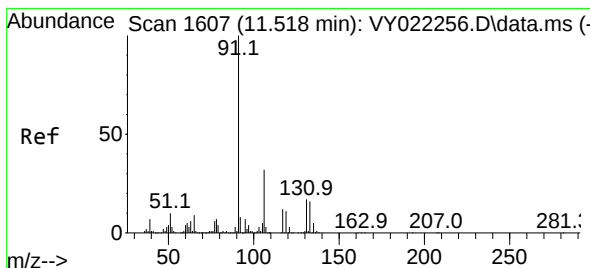
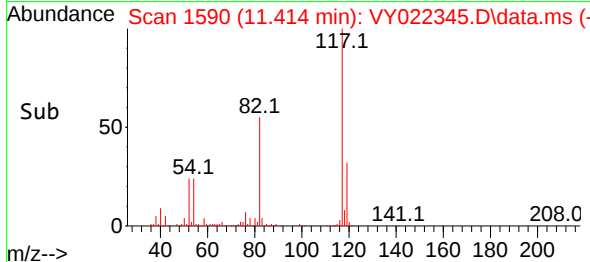
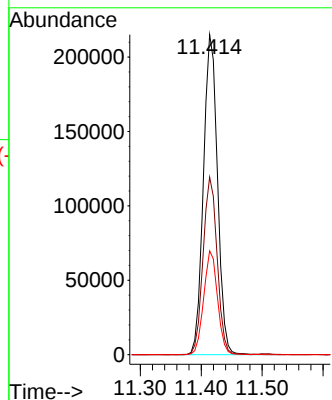
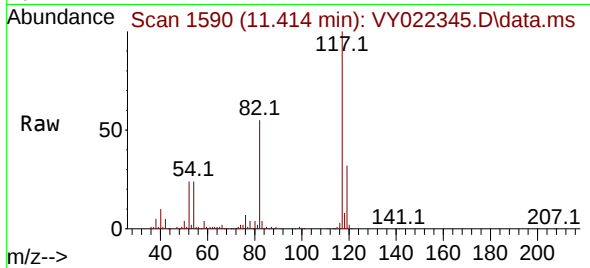




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

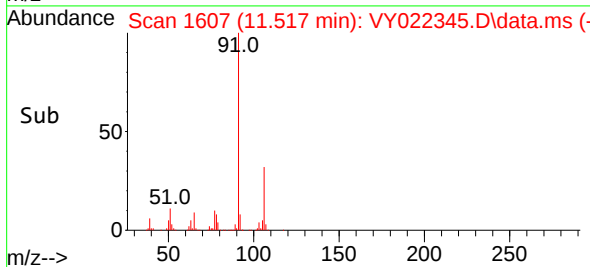
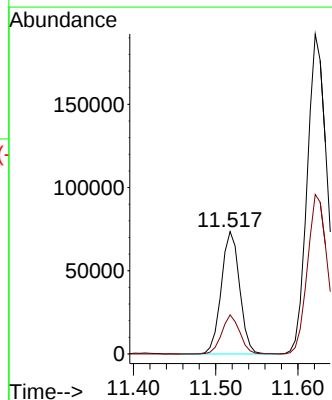
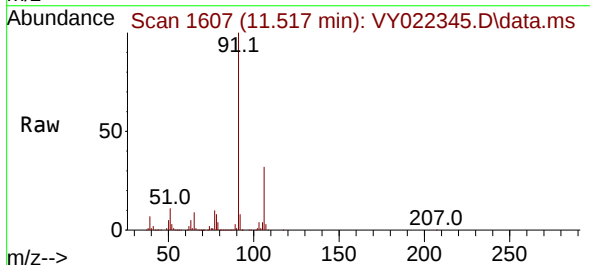
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

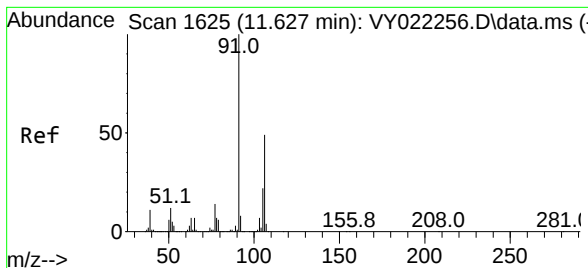
Tgt Ion:117 Resp: 345893
Ion Ratio Lower Upper
117 100
82 55.4 46.6 70.0
119 32.5 25.8 38.6



#67
Ethyl Benzene
Concen: 7.819 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 91 Resp: 114266
Ion Ratio Lower Upper
91 100
106 31.9 25.4 38.0

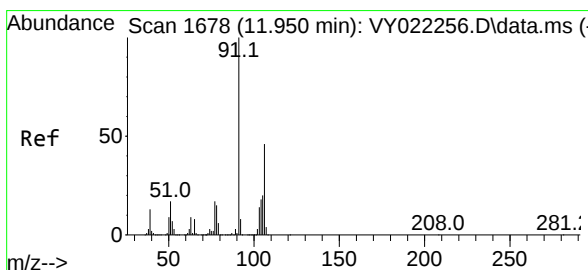
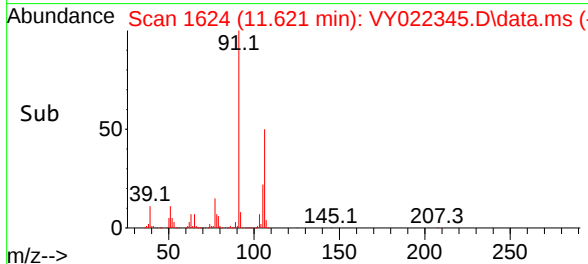
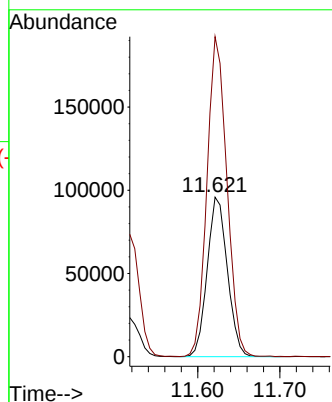
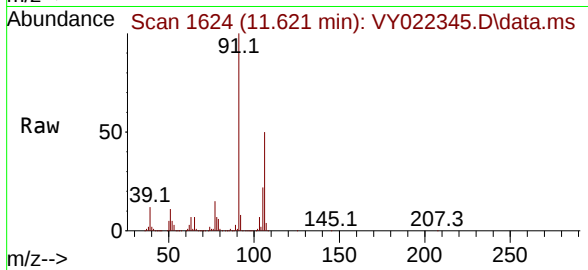




#68
m/p-Xylenes
Concen: 29.680 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

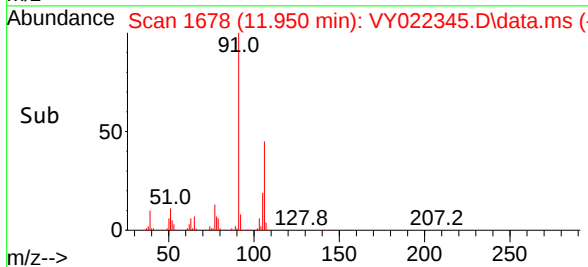
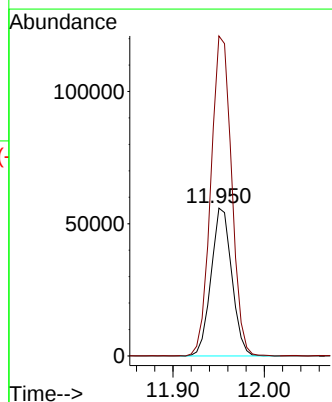
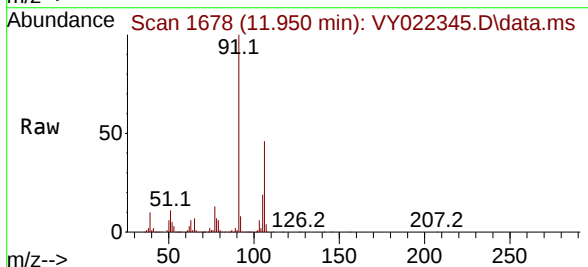
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

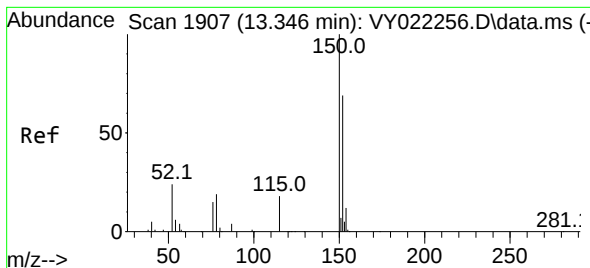
Tgt Ion:106 Resp: 163448
Ion Ratio Lower Upper
106 100
91 198.0 163.0 244.4



#69
o-Xylene
Concen: 16.880 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion:106 Resp: 87953
Ion Ratio Lower Upper
106 100
91 216.9 108.3 324.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

SS-11

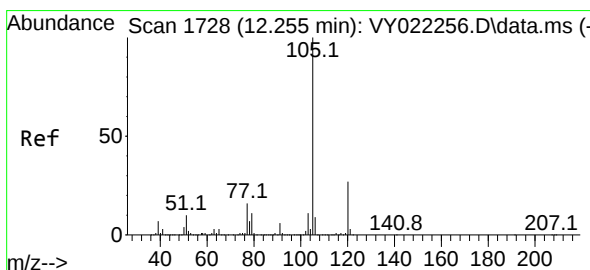
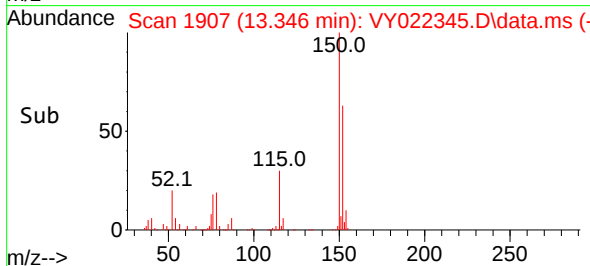
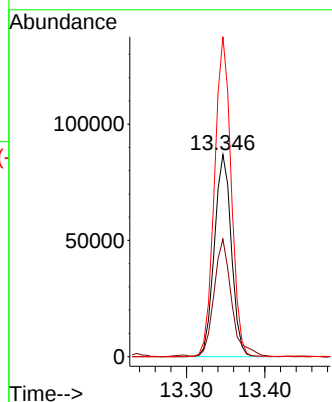
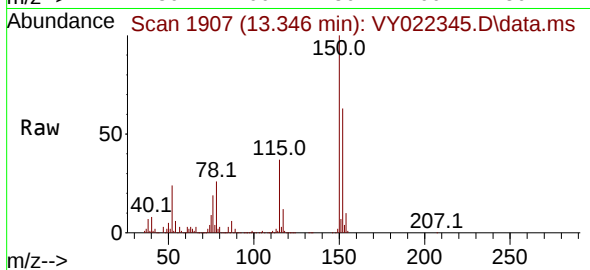
Tgt Ion:152 Resp: 130644

Ion Ratio Lower Upper

152 100

115 59.7 29.4 88.2

150 155.7 0.0 353.8



#73

Isopropylbenzene

Concen: 2.127 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY022345.D

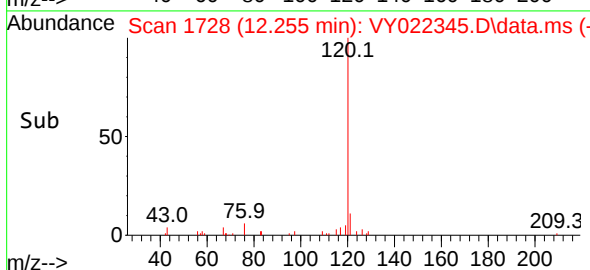
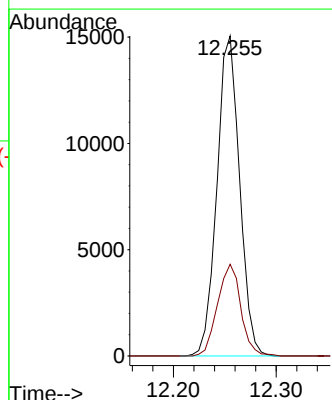
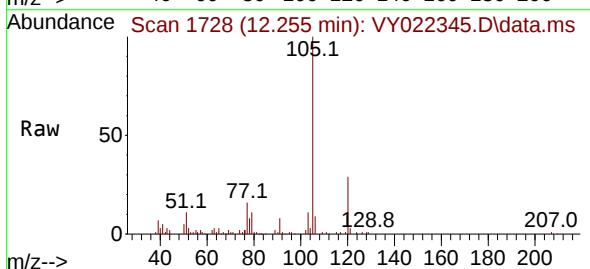
Acq: 20 May 2025 16:09

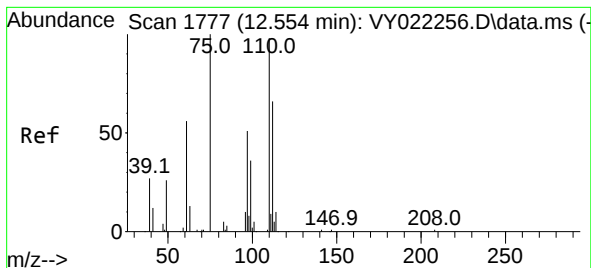
Tgt Ion:105 Resp: 23017

Ion Ratio Lower Upper

105 100

120 29.5 13.2 39.6





#76

1,2,3-Trichloropropane

Concen: 58.986 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

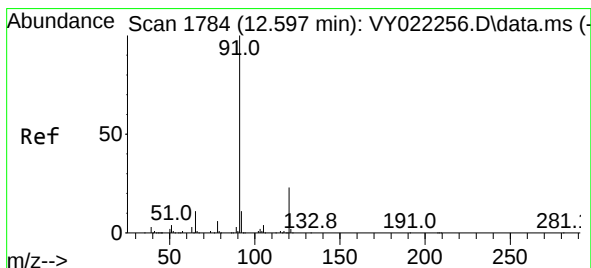
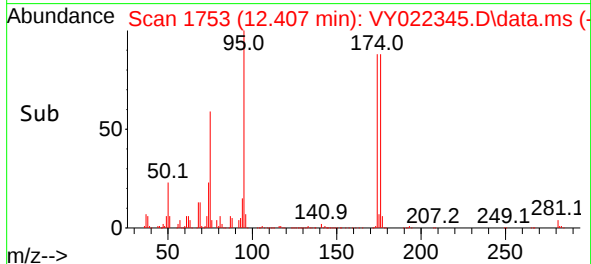
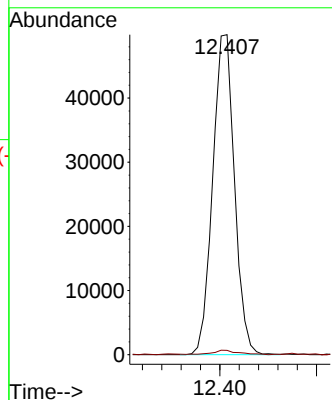
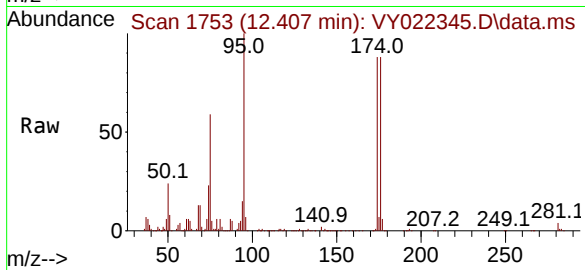
SS-11

Tgt Ion: 75 Resp: 78072

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#78

n-propylbenzene

Concen: 5.421 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY022345.D

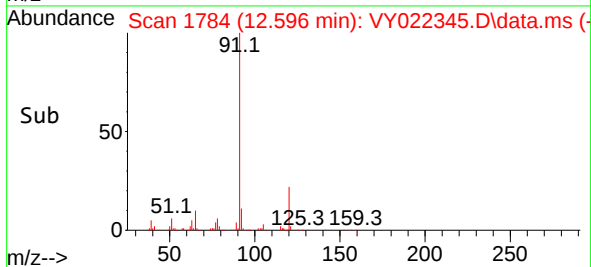
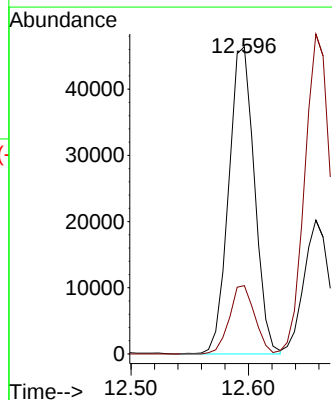
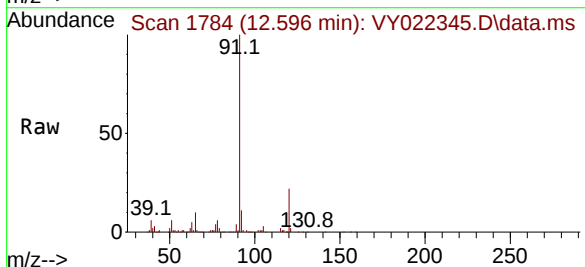
Acq: 20 May 2025 16:09

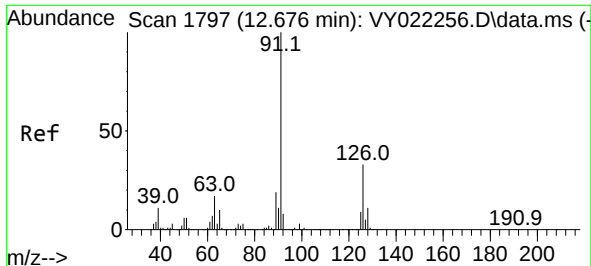
Tgt Ion: 91 Resp: 70774

Ion Ratio Lower Upper

91 100

120 21.8 11.1 33.3

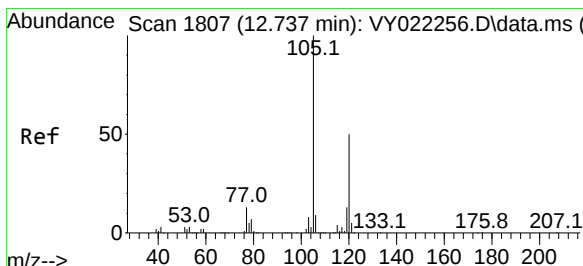
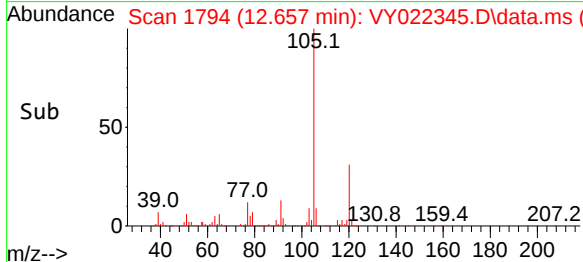
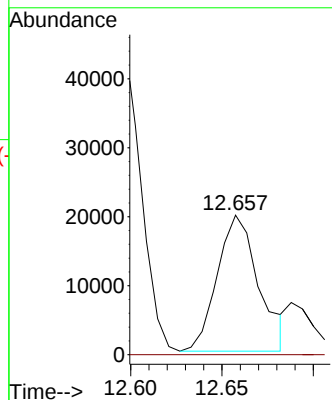
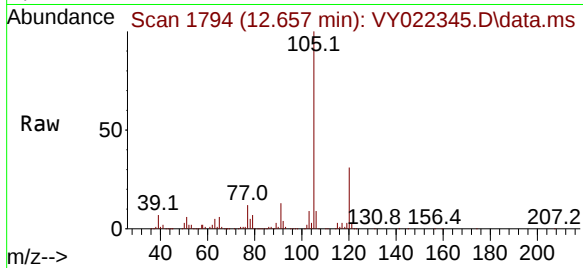




#79
2-Chlorotoluene
Concen: 4.336 ug/l
RT: 12.657 min Scan# 11
Delta R.T. -0.018 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

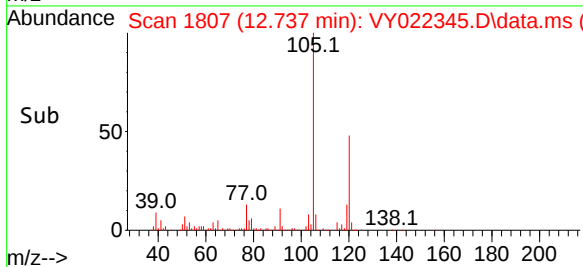
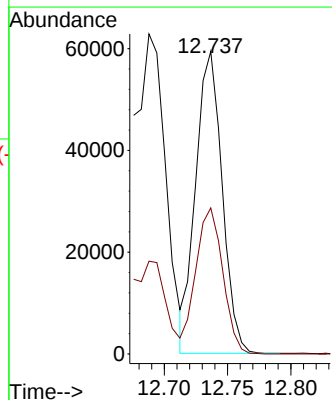
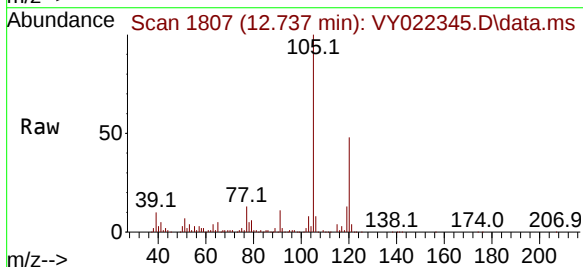
Instrument :
MSVOA_Y
ClientSampleId :
SS-11

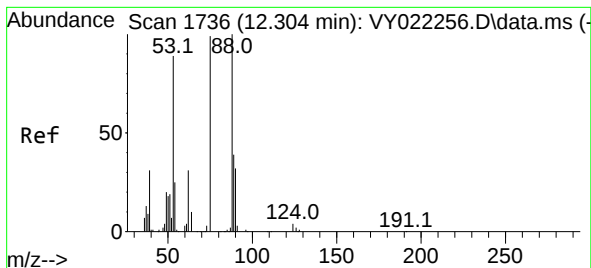
Tgt Ion: 91 Resp: 31108
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#80
1,3,5-Trimethylbenzene
Concen: 9.879 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022345.D
Acq: 20 May 2025 16:09

Tgt Ion: 105 Resp: 86309
Ion Ratio Lower Upper
105 100
120 49.5 24.2 72.6

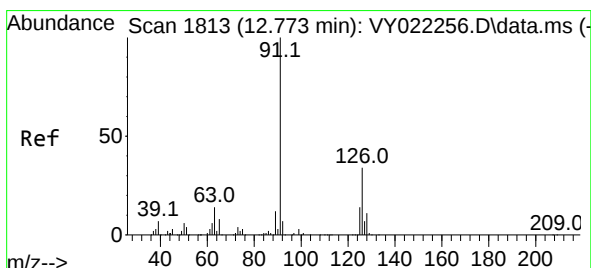
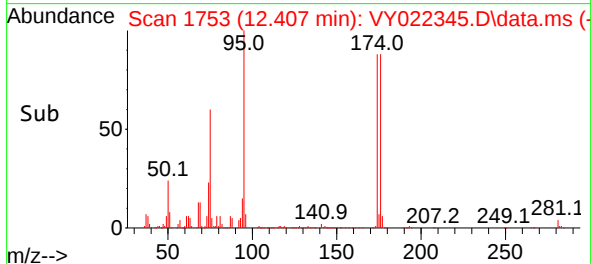
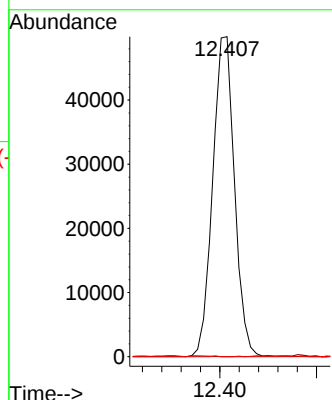
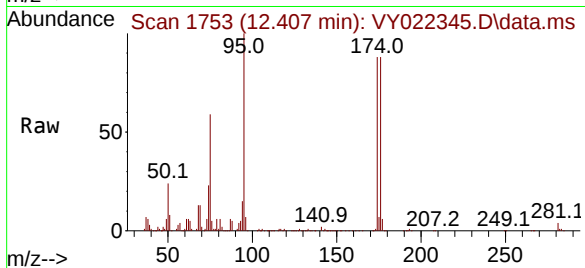




#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.491 ug/l
 RT: 12.407 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY022345.D
 Acq: 20 May 2025 16:09

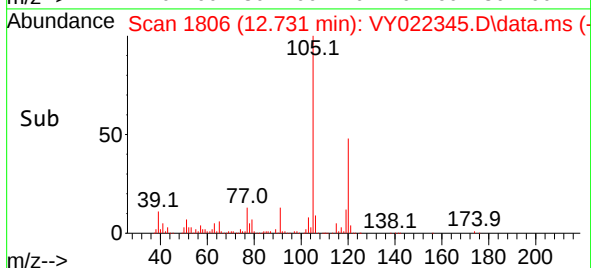
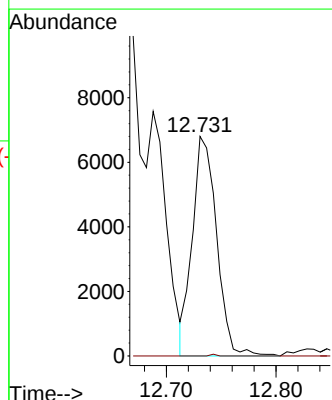
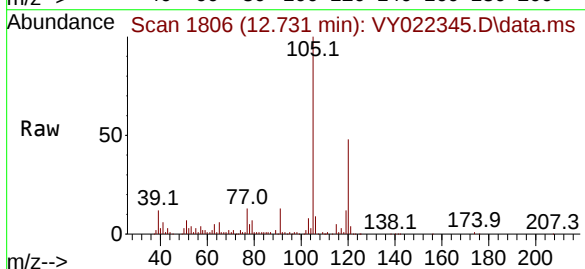
Instrument :
 MSVOA_Y
 ClientSampleId :
 SS-11

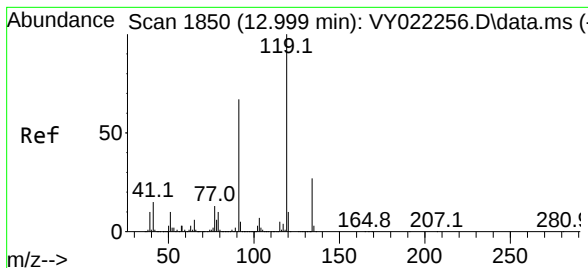
Tgt Ion: 75 Resp: 78072
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.8 113.8#
 89 0.0 36.2 54.2#



#82
 4-Chlorotoluene
 Concen: 1.418 ug/l
 RT: 12.731 min Scan# 1806
 Delta R.T. -0.043 min
 Lab File: VY022345.D
 Acq: 20 May 2025 16:09

Tgt Ion: 91 Resp: 10464
 Ion Ratio Lower Upper
 91 100
 126 0.2 16.8 50.4#





#83

tert-Butylbenzene

Concen: 5.739 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. 0.043 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

SS-11

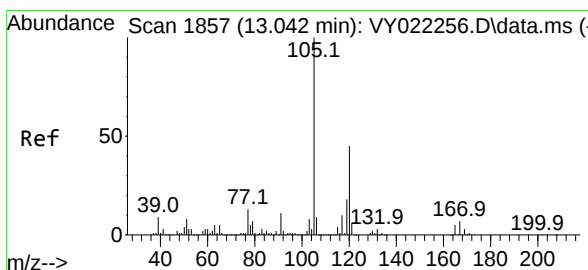
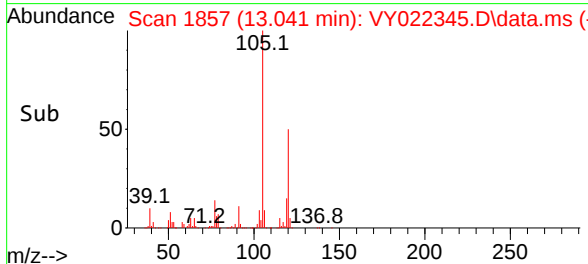
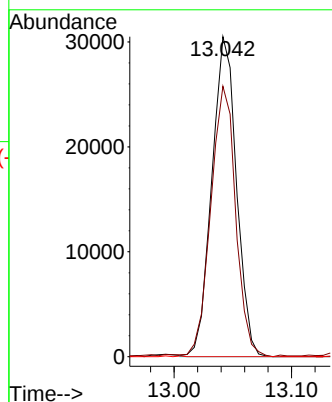
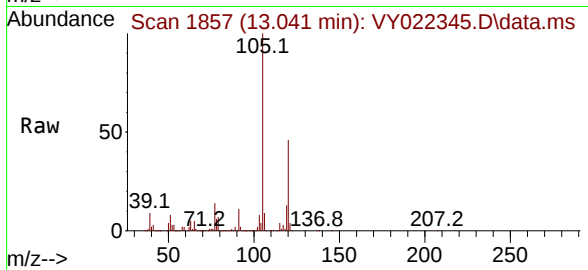
Tgt Ion:119 Resp: 44568

Ion Ratio Lower Upper

119 100

91 86.2 32.8 98.3

134 0.0 12.9 38.6#



#84

1,2,4-Trimethylbenzene

Concen: 40.417 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. -0.000 min

Lab File: VY022345.D

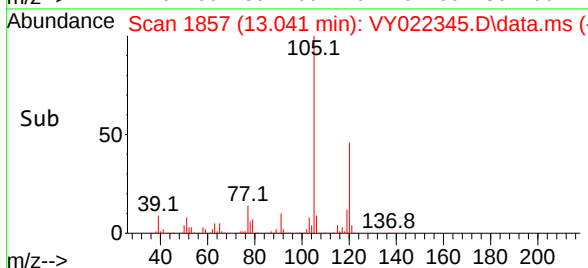
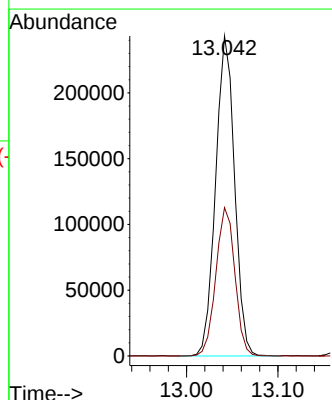
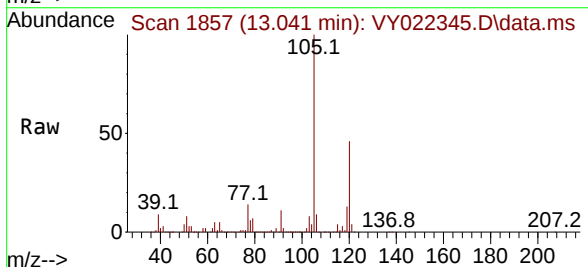
Acq: 20 May 2025 16:09

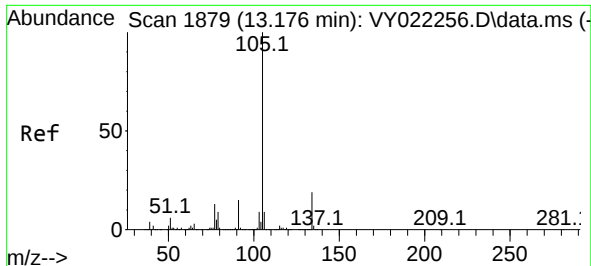
Tgt Ion:105 Resp: 350537

Ion Ratio Lower Upper

105 100

120 46.5 22.3 66.9

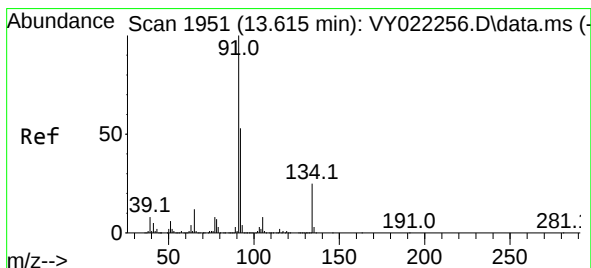
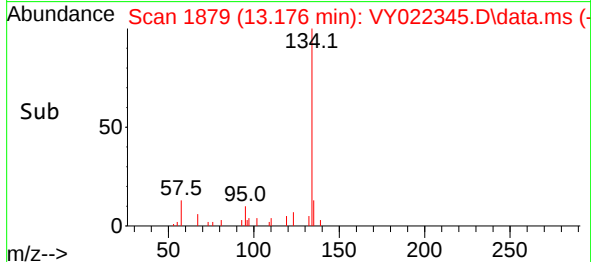
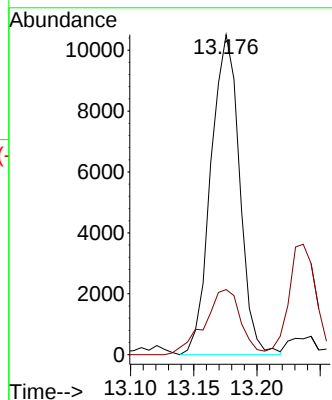
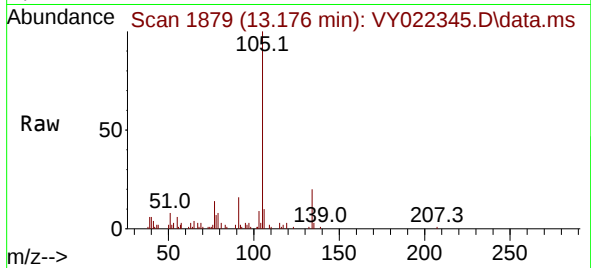




#85
 sec-Butylbenzene
 Concen: 1.436 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. -0.000 min
 Lab File: VY022345.D
 Acq: 20 May 2025 16:09

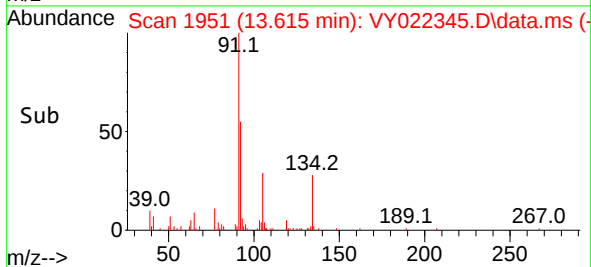
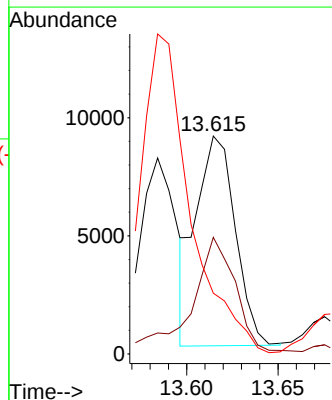
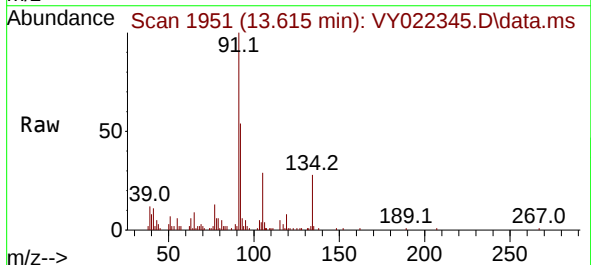
Instrument :
 MSVOA_Y
 ClientSampleId :
 SS-11

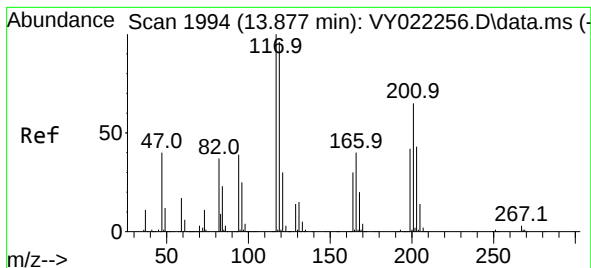
Tgt Ion:105 Resp: 16558
 Ion Ratio Lower Upper
 105 100
 134 25.8 9.8 29.5



#89
 n-Butylbenzene
 Concen: 1.439 ug/l
 RT: 13.615 min Scan# 1951
 Delta R.T. -0.000 min
 Lab File: VY022345.D
 Acq: 20 May 2025 16:09

Tgt Ion: 91 Resp: 13194
 Ion Ratio Lower Upper
 91 100
 92 62.9 26.3 78.9
 134 0.0 12.4 37.4#





#90

Hexachloroethane

Concen: 2.920 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.012 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

Instrument :

MSVOA_Y

ClientSampleId :

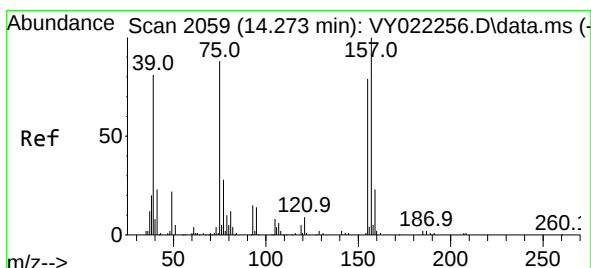
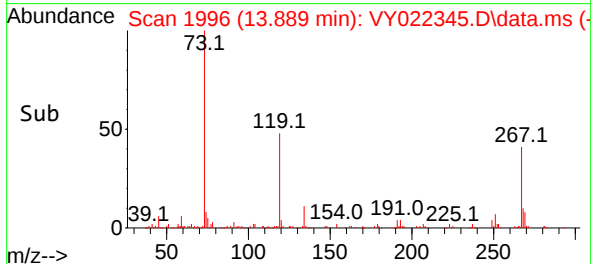
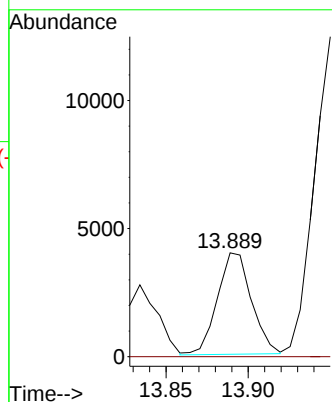
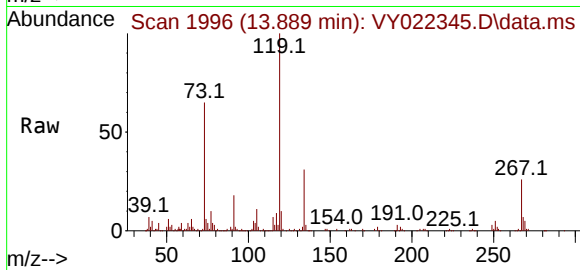
SS-11

Tgt Ion:117 Resp: 5715

Ion Ratio Lower Upper

117 100

201 0.0 35.2 105.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.060 ug/l

RT: 14.249 min Scan# 2055

Delta R.T. -0.024 min

Lab File: VY022345.D

Acq: 20 May 2025 16:09

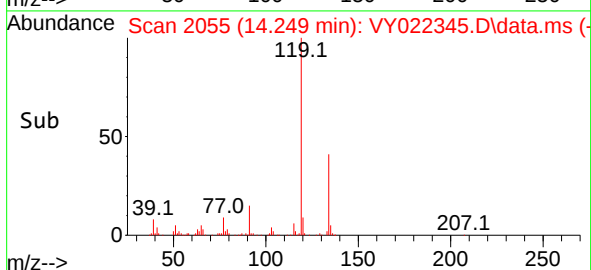
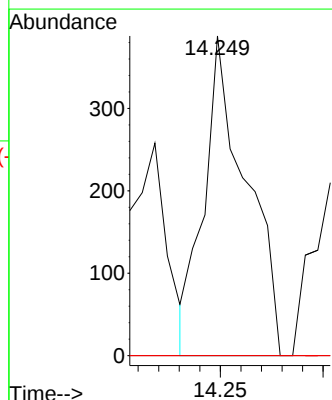
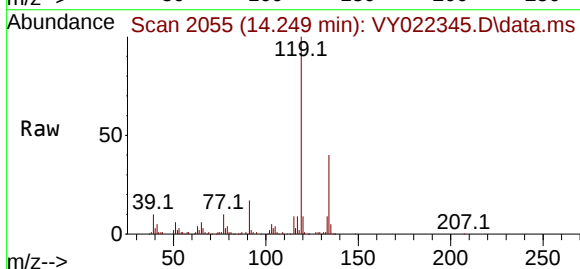
Tgt Ion: 75 Resp: 553

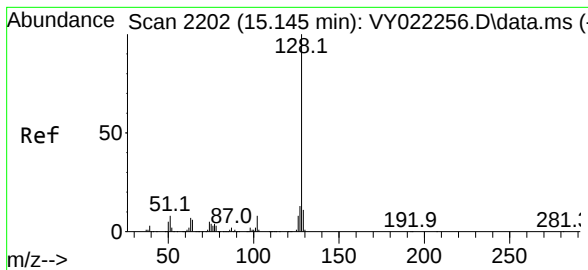
Ion Ratio Lower Upper

75 100

155 0.0 43.4 130.1#

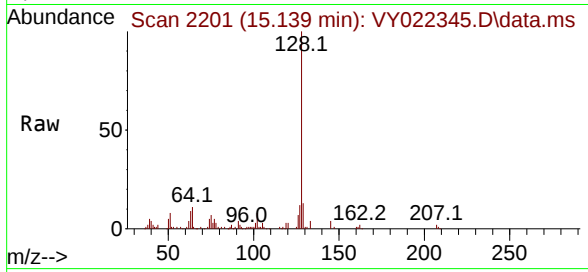
157 0.0 54.6 163.9#





#95
 Naphthalene
 Concen: 6.527 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VY022345.D
 Acq: 20 May 2025 16:09

Instrument :
 MSVOA_Y
 ClientSampleId :
 SS-11



Tgt Ion:128 Resp: 28362
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.2 15.2
 129 14.1 8.8 13.2#

