

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023917.D
 Acq On : 09 Dec 2025 18:37
 Operator : SY/MD
 Sample : Q3809-14
 Misc : 3.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B-4

Quant Time: Dec 10 02:33:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

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

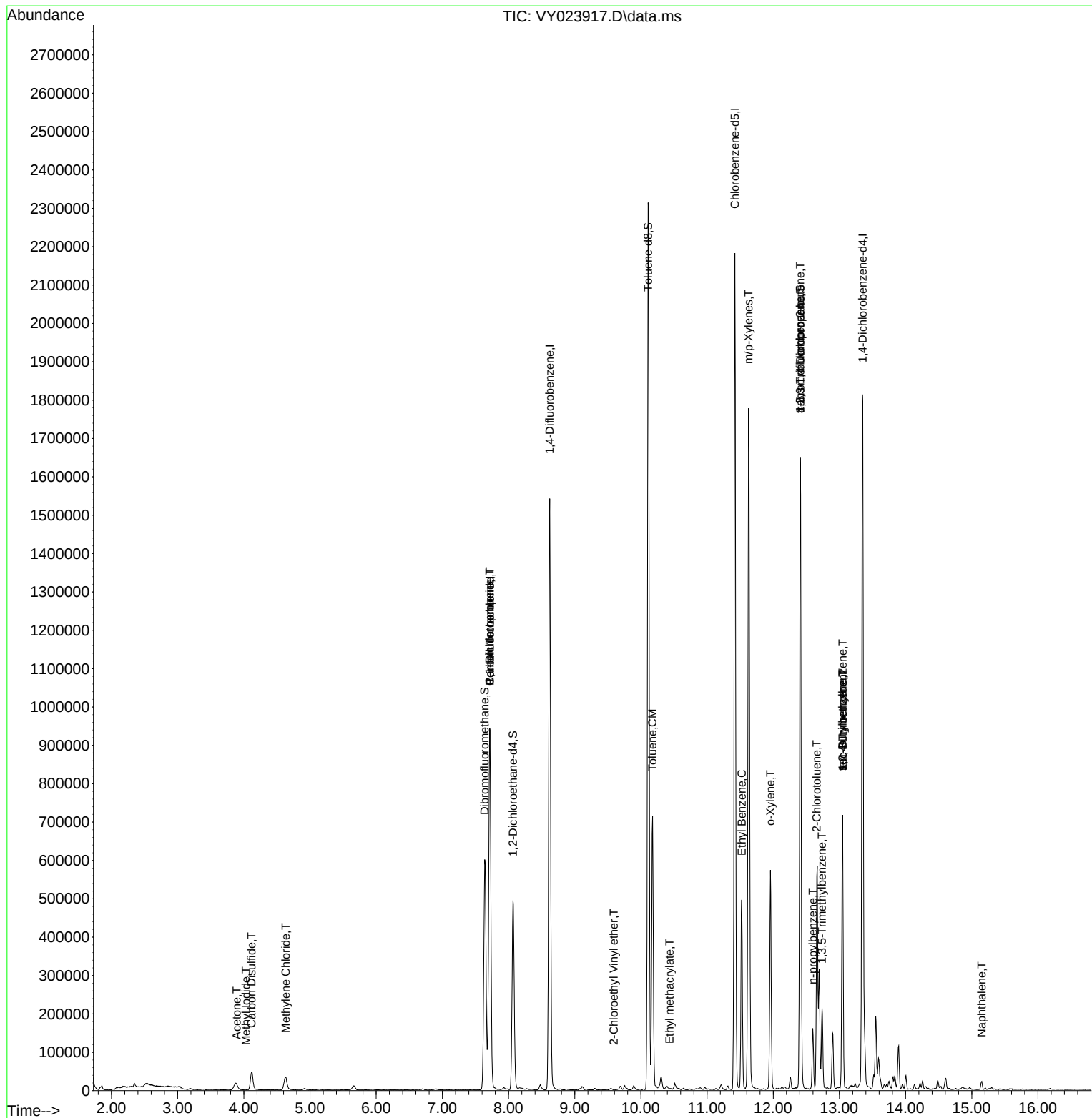
Internal Standards						
1) Pentafluorobenzene	7.719	168	804825	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1379198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1200410	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	507538	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	390592	48.514	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.020%
35) Dibromofluoromethane	7.640	113	436012	49.290	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.580%
50) Toluene-d8	10.109	98	1579476	45.885	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.780%
62) 4-Bromofluorobenzene	12.408	95	485231	41.329	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.660%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.031	142	505	2.493	ug/l #	60
11) Tert butyl alcohol	4.885	59	149	Below Cal	#	74
16) Acetone	3.891	43	25546	10.589	ug/l	90
17) Carbon Disulfide	4.116	76	96754	4.224	ug/l	100
20) Methylene Chloride	4.635	84	25353	1.090	ug/l #	84
36) 1,1-Dichloropropene	7.713	75	51785	3.970	ug/l #	50
38) Carbon Tetrachloride	7.719	117	74169	5.152	ug/l #	15
52) Toluene	10.176	92	303385	12.288	ug/l	100
56) Ethyl methacrylate	10.432	69	302	4.179	ug/l #	25
58) 2-Chloroethyl Vinyl ether	9.591	63	21	14.722	ug/l #	47
67) Ethyl Benzene	11.524	91	337192	7.119	ug/l	97
68) m/p-Xylenes	11.627	106	558976	30.875	ug/l	96
69) o-Xylene	11.956	106	154012	9.095	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	241808	48.058	ug/l #	100
78) n-propylbenzene	12.597	91	114436	2.536	ug/l	98
79) 2-Chlorotoluene	12.658	91	43061	1.680	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	101711	3.348	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	241808	115.103	ug/l #	14
83) tert-Butylbenzene	13.048	119	48474	1.770	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.048	105	381768	12.683	ug/l	95
85) sec-Butylbenzene	13.048	105	381768	9.369	ug/l #	56
95) Naphthalene	15.151	128	17731	1.192	ug/l	100

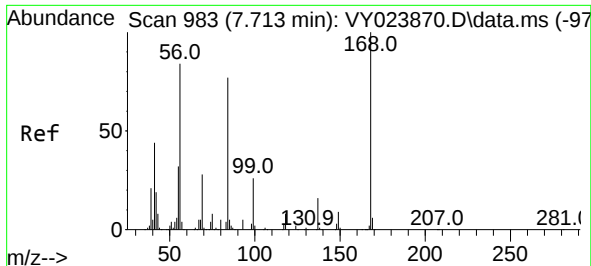
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 04 03:49:13 2025
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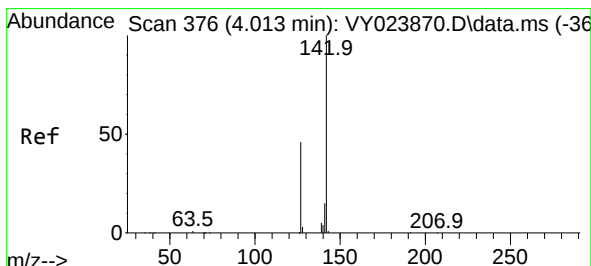
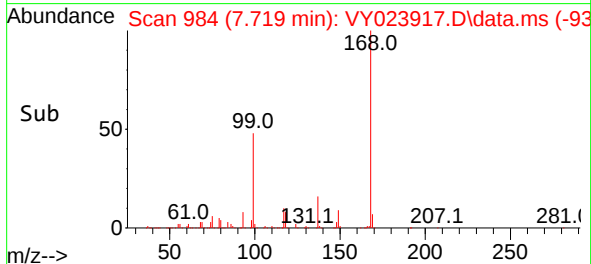
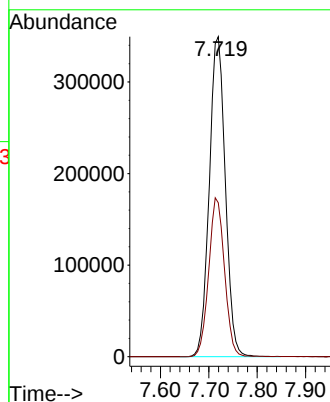
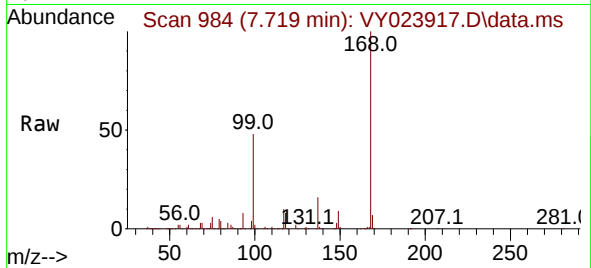




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

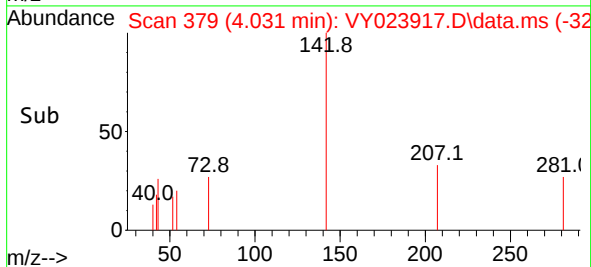
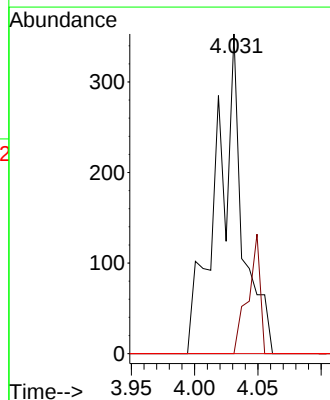
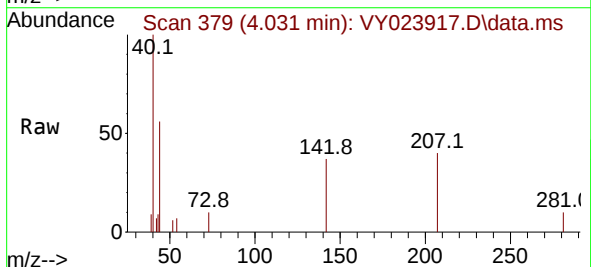
Instrument :
MSVOA_Y
ClientSampleId :
B-4

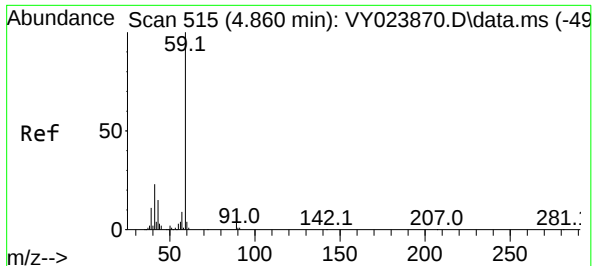
Tgt Ion:168 Resp: 804825
Ion Ratio Lower Upper
168 100
99 48.1 42.5 63.7



#10
Methyl Iodide
Concen: 2.493 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.018 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion:142 Resp: 505
Ion Ratio Lower Upper
142 100
127 17.6 36.1 54.1#
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.885 min Scan# 515

Delta R.T. 0.024 min

Lab File: VY023917.D

Acq: 09 Dec 2025 18:37

Instrument :

MSVOA_Y

ClientSampleId :

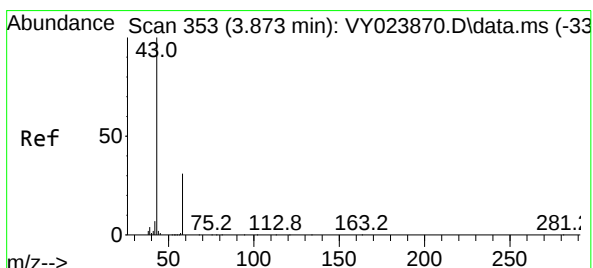
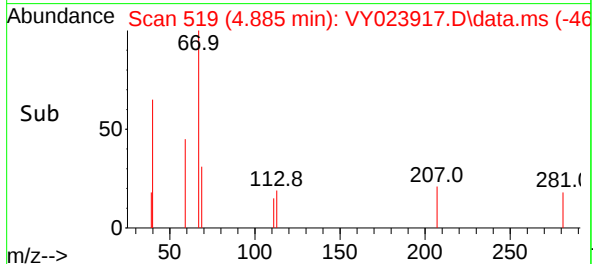
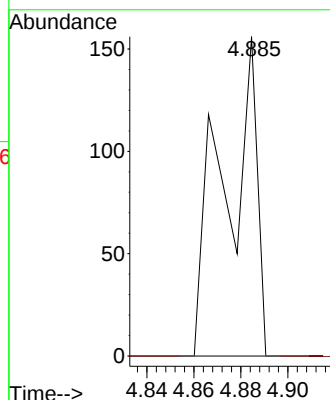
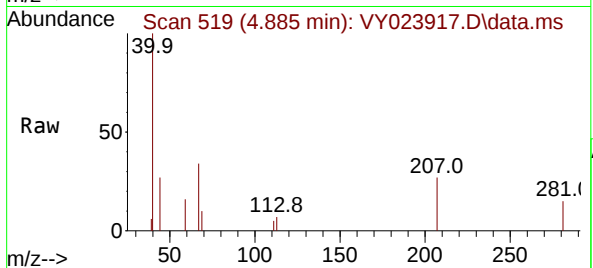
B-4

Tgt Ion: 59 Resp: 149

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#16

Acetone

Concen: 10.589 ug/l

RT: 3.891 min Scan# 356

Delta R.T. 0.018 min

Lab File: VY023917.D

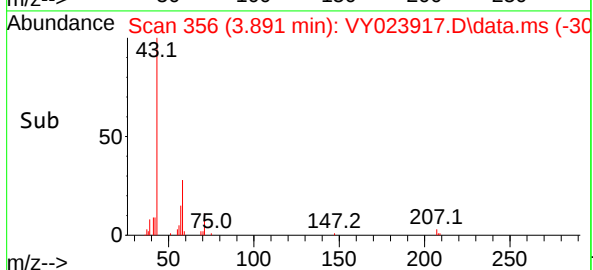
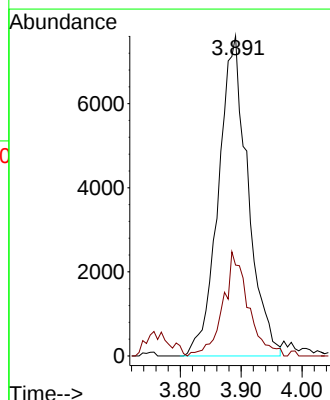
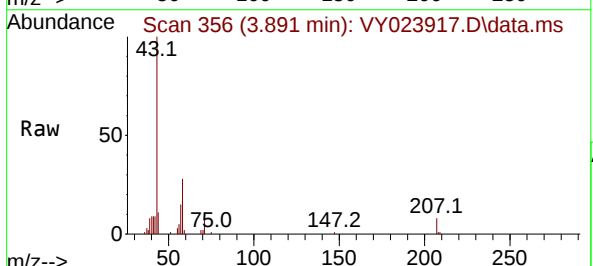
Acq: 09 Dec 2025 18:37

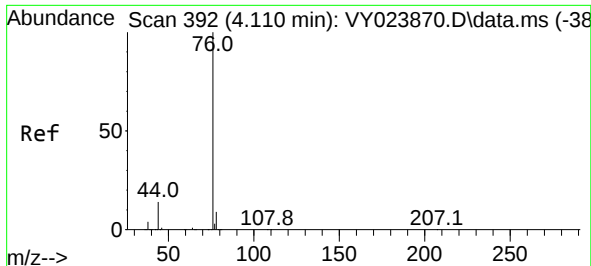
Tgt Ion: 43 Resp: 25546

Ion Ratio Lower Upper

43 100

58 26.0 25.1 37.7

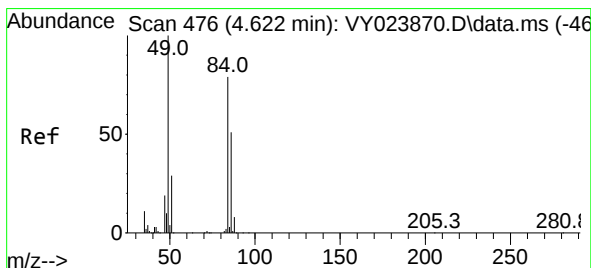
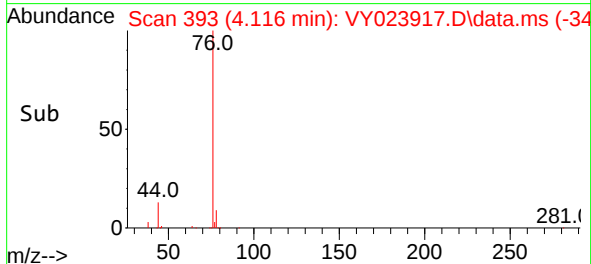
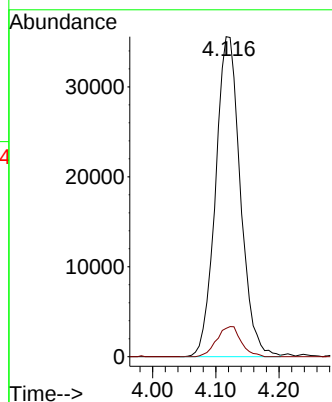
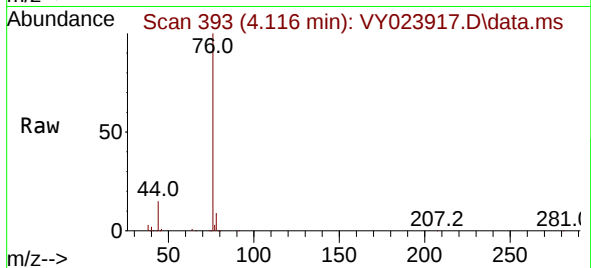




#17
Carbon Disulfide
Concen: 4.224 ug/l
RT: 4.116 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

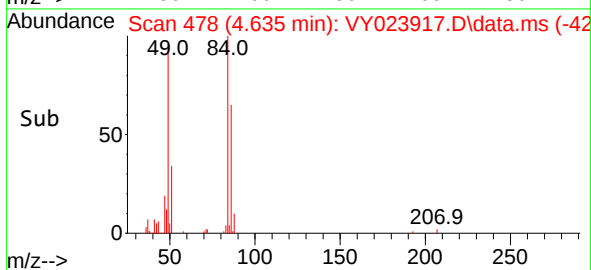
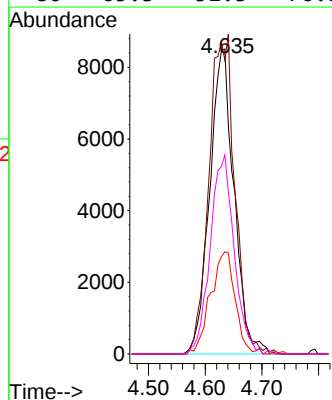
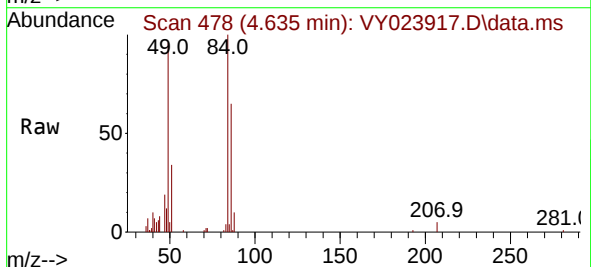
Instrument :
MSVOA_Y
ClientSampleId :
B-4

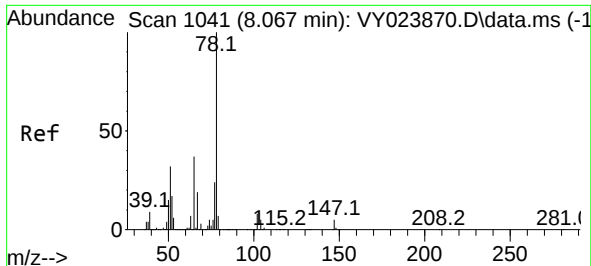
Tgt Ion: 76 Resp: 96754
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7



#20
Methylene Chloride
Concen: 1.090 ug/l
RT: 4.635 min Scan# 478
Delta R.T. 0.012 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 84 Resp: 25353
Ion Ratio Lower Upper
84 100
49 96.4 100.6 151.0#
51 33.5 29.0 43.6
86 65.3 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 48.514 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY023917.D

Acq: 09 Dec 2025 18:37

Instrument :

MSVOA_Y

ClientSampleId :

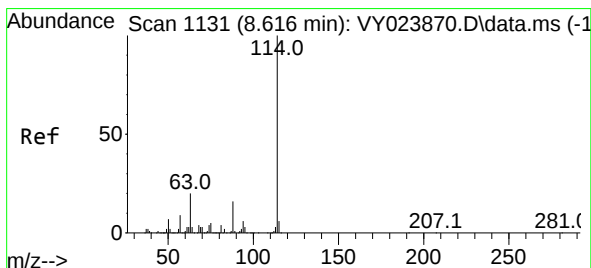
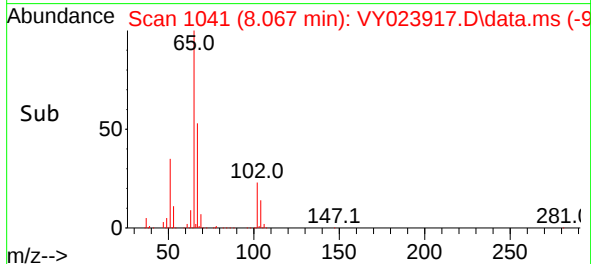
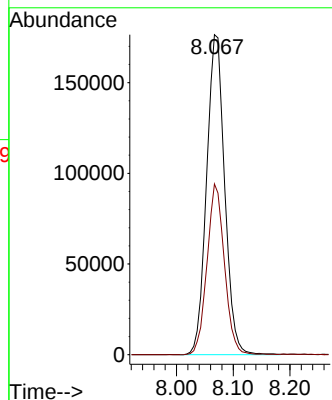
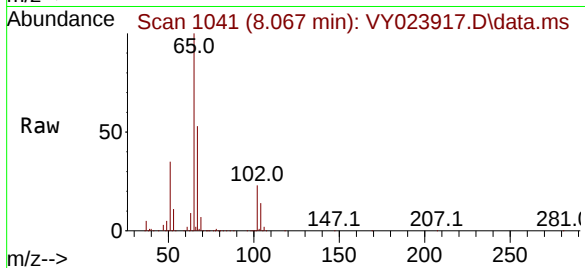
B-4

Tgt Ion: 65 Resp: 390592

Ion Ratio Lower Upper

65 100

67 51.4 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023917.D

Acq: 09 Dec 2025 18:37

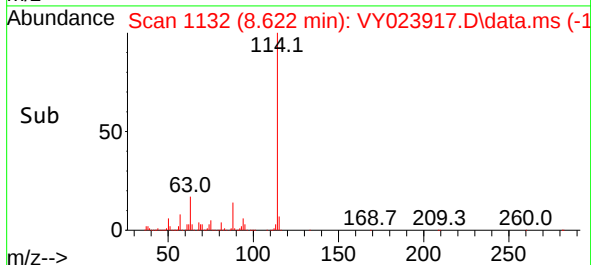
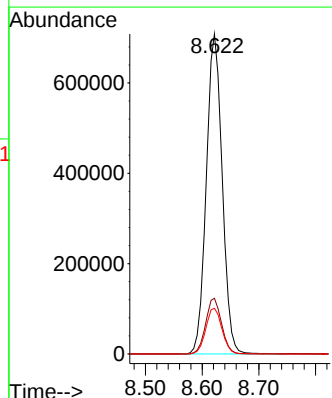
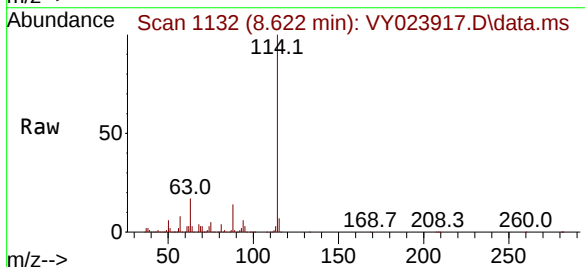
Tgt Ion:114 Resp: 1379198

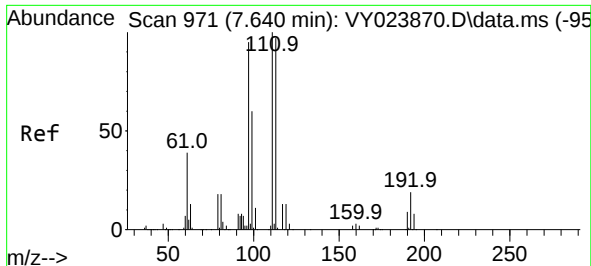
Ion Ratio Lower Upper

114 100

63 17.4 0.0 39.2

88 14.2 0.0 31.4

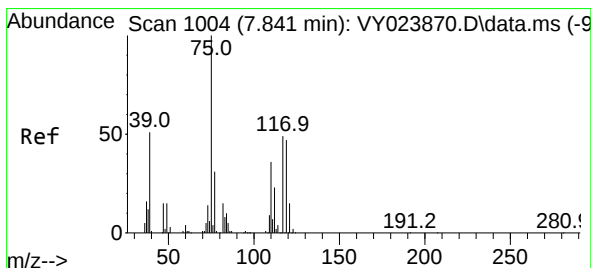
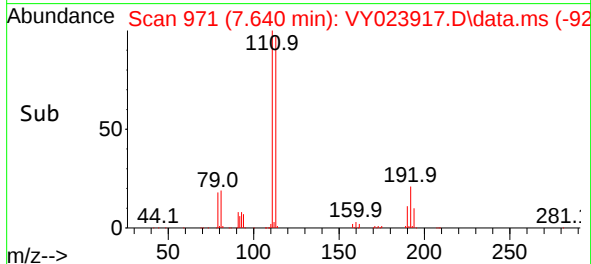
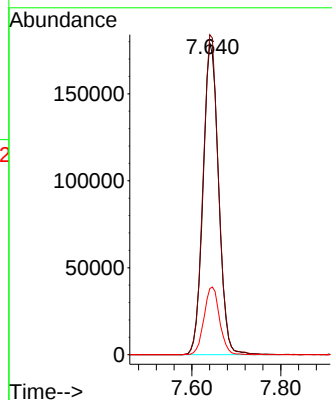
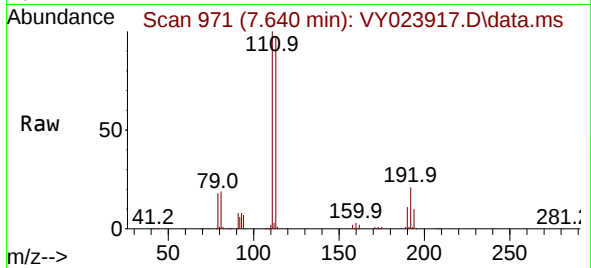




#35
Dibromofluoromethane
Concen: 49.290 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

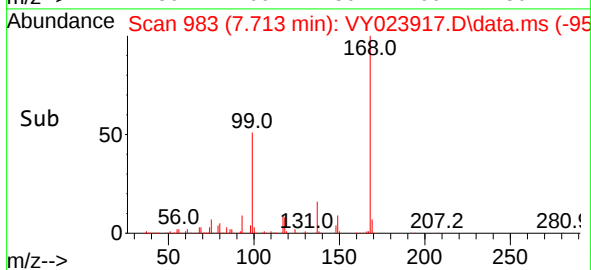
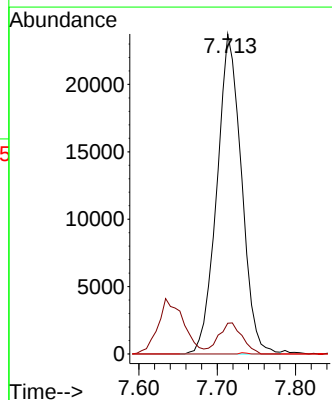
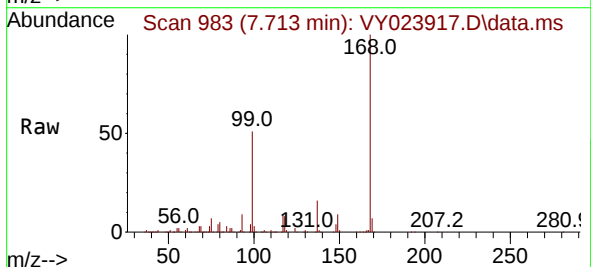
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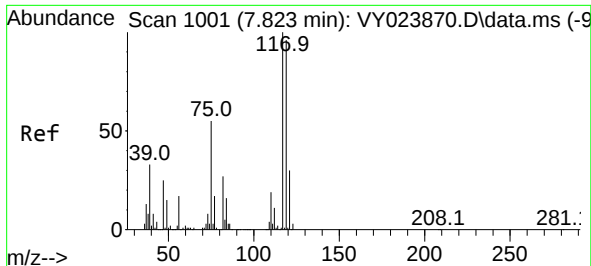
Tgt Ion:113 Resp: 436012
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.2
192 21.8 15.8 23.8



#36
1,1-Dichloropropene
Concen: 3.970 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 75 Resp: 51785
Ion Ratio Lower Upper
75 100
110 9.4 17.6 52.9#
77 0.1 24.6 37.0#

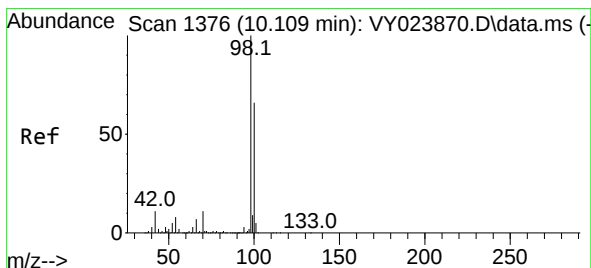
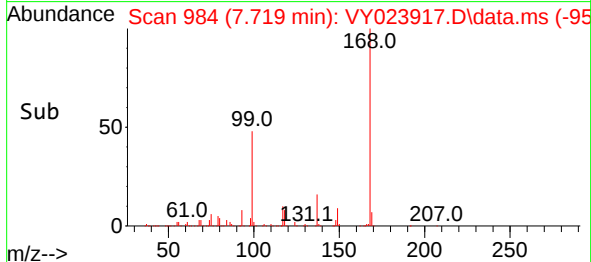
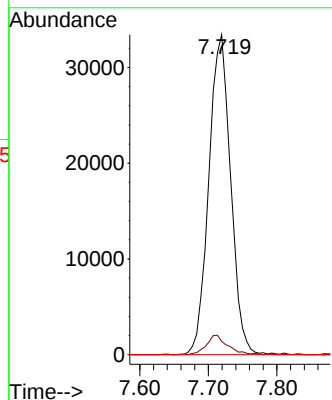
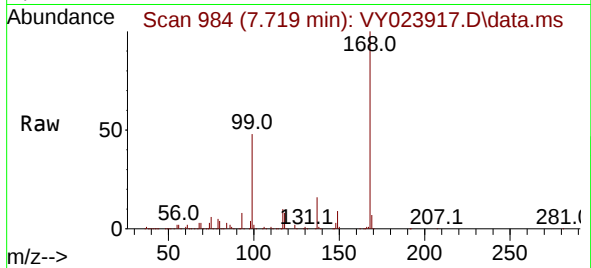




#38
Carbon Tetrachloride
Concen: 5.152 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

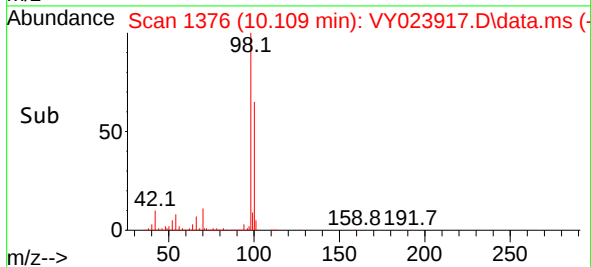
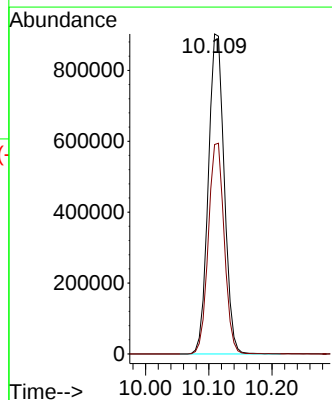
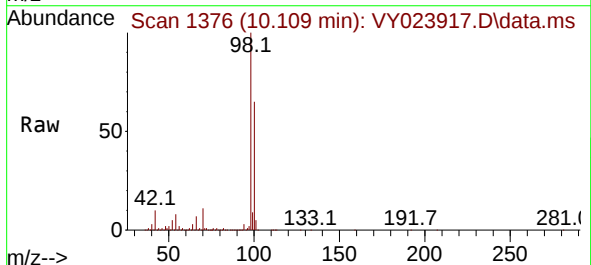
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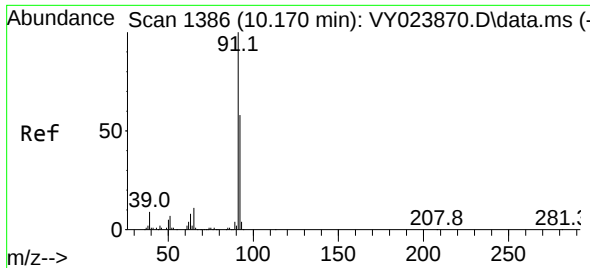
Tgt Ion:117 Resp: 74169
Ion Ratio Lower Upper
117 100
119 4.1 77.0 115.6#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 45.885 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 98 Resp: 1579476
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7

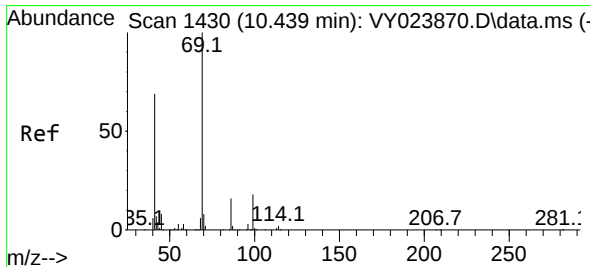
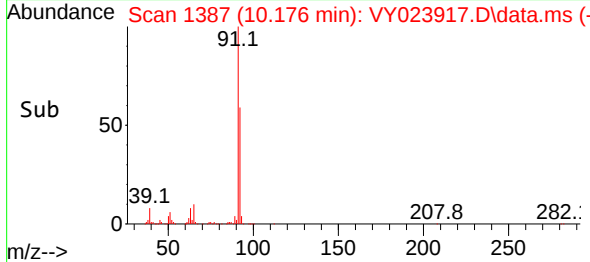
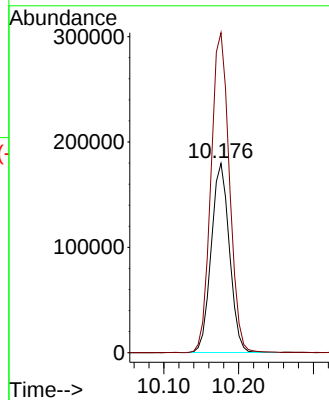
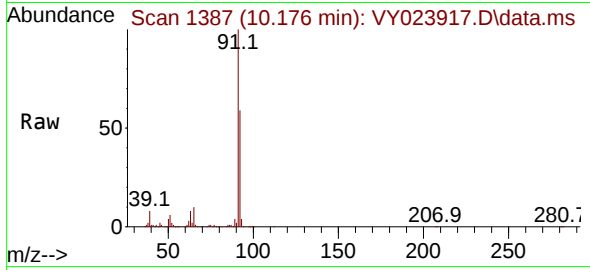




#52
Toluene
Concen: 12.288 ug/l
RT: 10.176 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

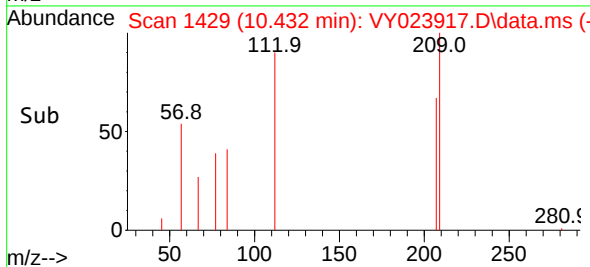
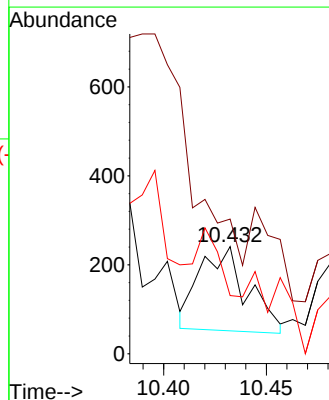
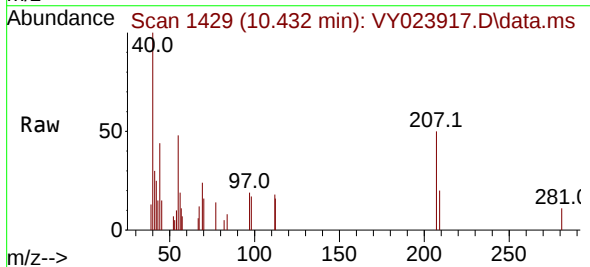
Instrument :
MSVOA_Y
ClientSampleId :
B-4

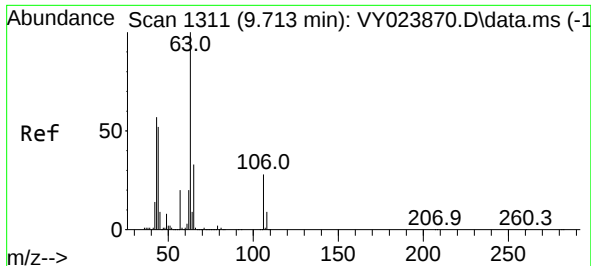
Tgt Ion: 92 Resp: 303385
Ion Ratio Lower Upper
92 100
91 171.8 137.3 205.9



#56
Ethyl methacrylate
Concen: 4.179 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. -0.006 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 69 Resp: 302
Ion Ratio Lower Upper
69 100
41 0.0 52.5 78.7#
39 0.0 27.1 40.7#

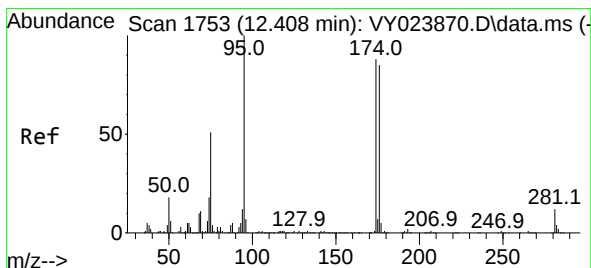
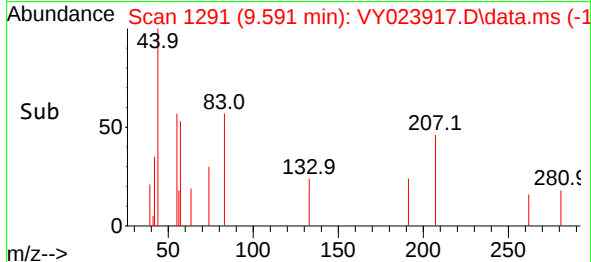
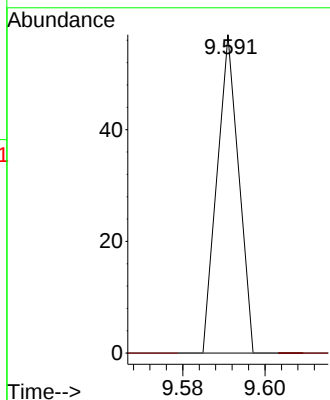
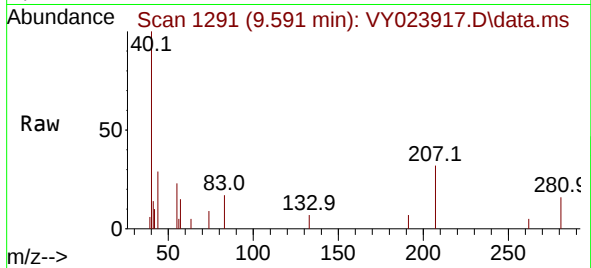




#58
2-Chloroethyl Vinyl ether
Concen: 14.722 ug/l
RT: 9.591 min Scan# 11
Delta R.T. -0.122 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

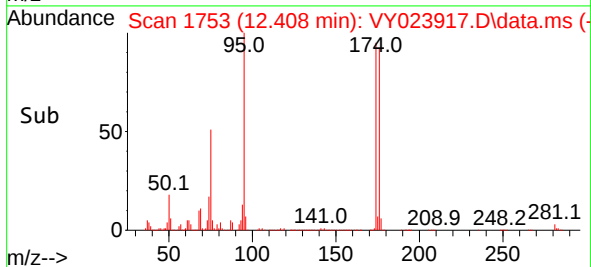
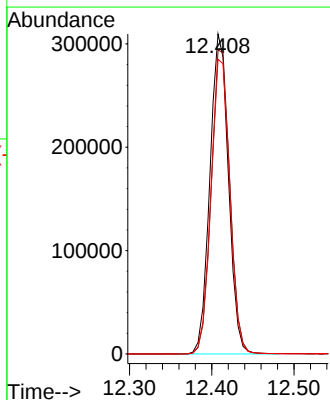
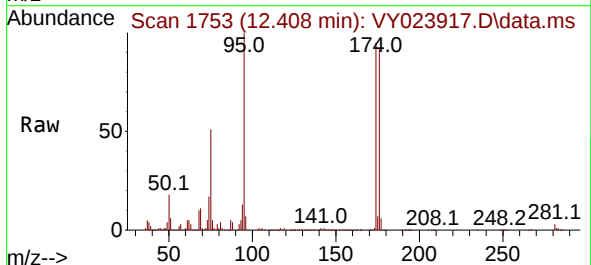
Instrument :
MSVOA_Y
ClientSampleId :
B-4

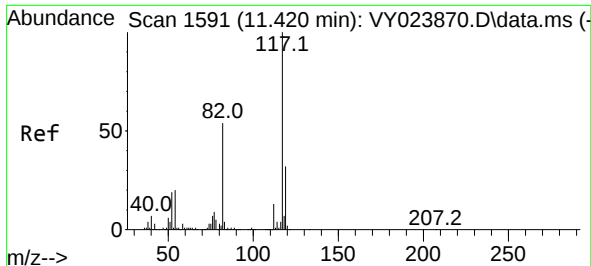
Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#



#62
4-Bromofluorobenzene
Concen: 41.329 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 95 Resp: 485231
Ion Ratio Lower Upper
95 100
174 96.1 0.0 169.6
176 93.4 0.0 164.4

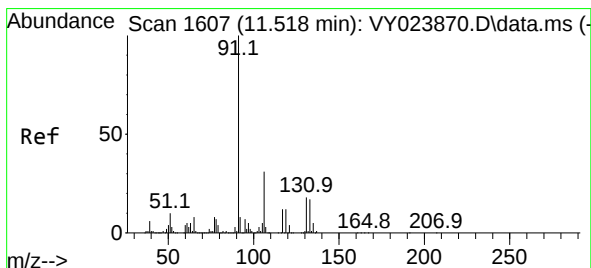
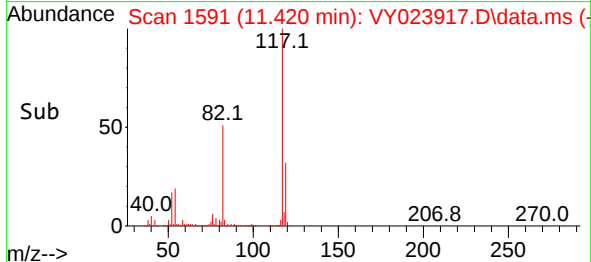
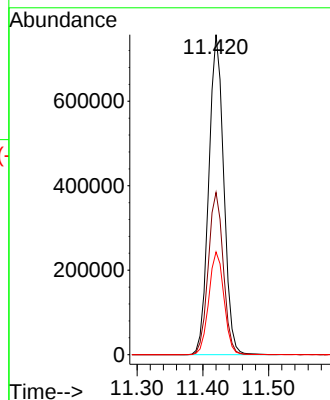
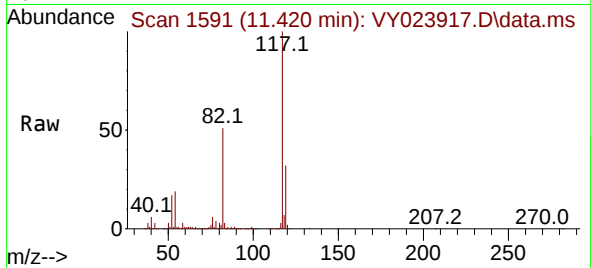




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

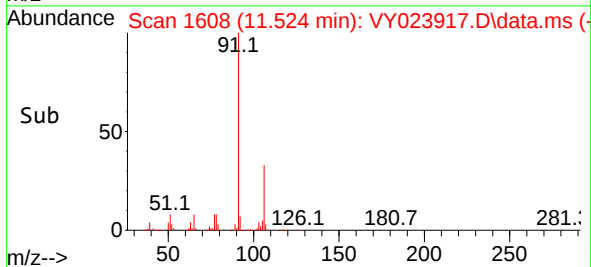
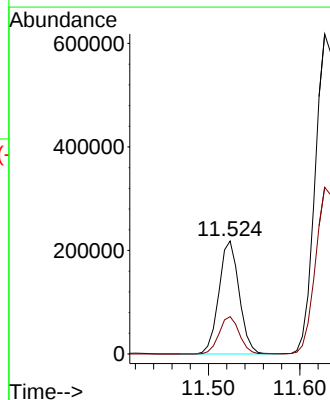
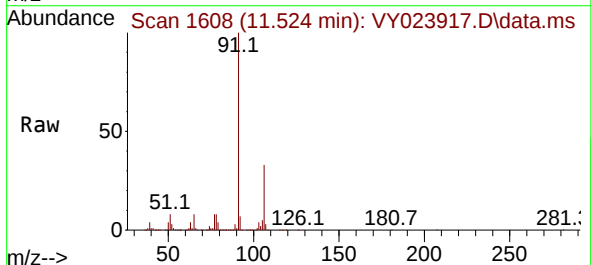
Instrument :
MSVOA_Y
ClientSampleId :
B-4

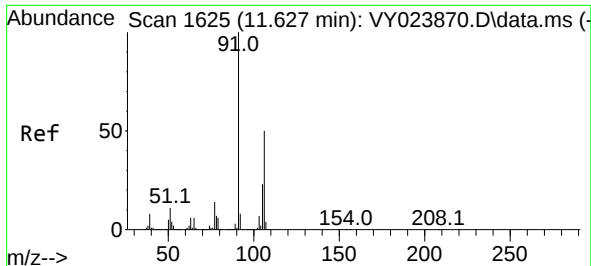
Tgt Ion:117 Resp: 1200410
Ion Ratio Lower Upper
117 100
82 50.7 43.1 64.7
119 32.1 26.0 39.0



#67
Ethyl Benzene
Concen: 7.119 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 91 Resp: 337192
Ion Ratio Lower Upper
91 100
106 33.0 25.0 37.6

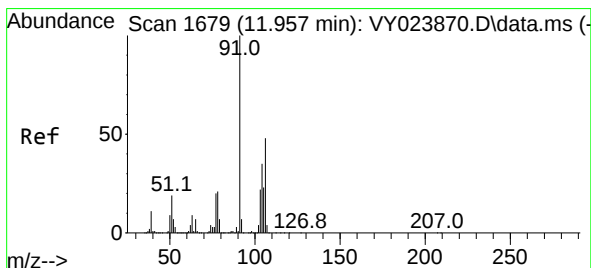
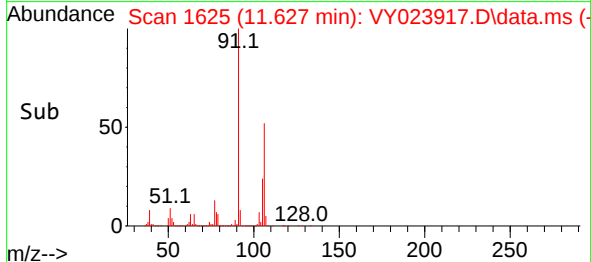
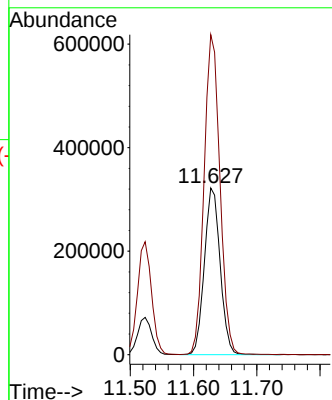
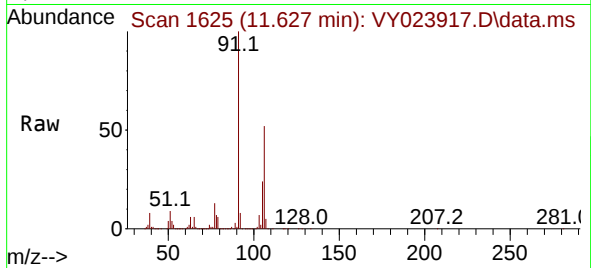




#68
m/p-Xylenes
Concen: 30.875 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

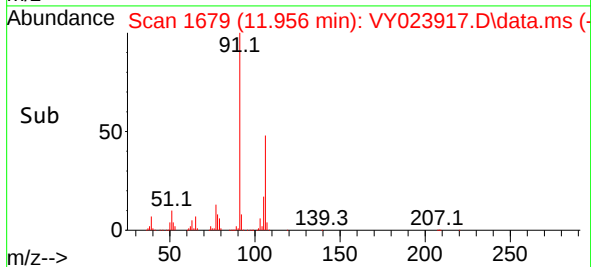
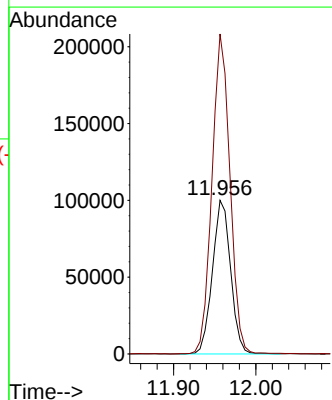
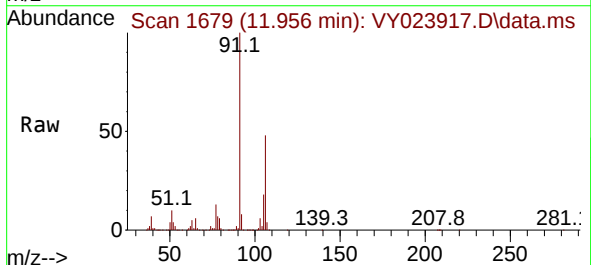
Instrument :
MSVOA_Y
ClientSampleId :
B-4

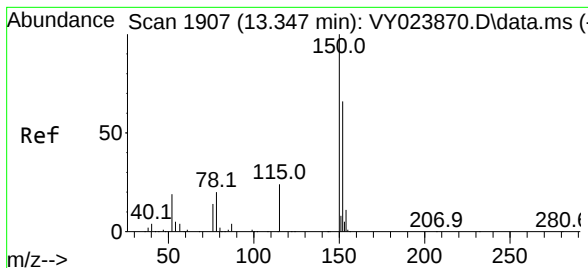
Tgt Ion:106 Resp: 558976
Ion Ratio Lower Upper
106 100
91 193.2 159.7 239.5



#69
o-Xylene
Concen: 9.095 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion:106 Resp: 154012
Ion Ratio Lower Upper
106 100
91 206.5 104.4 313.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023917.D

Acq: 09 Dec 2025 18:37

Instrument :

MSVOA_Y

ClientSampleId :

B-4

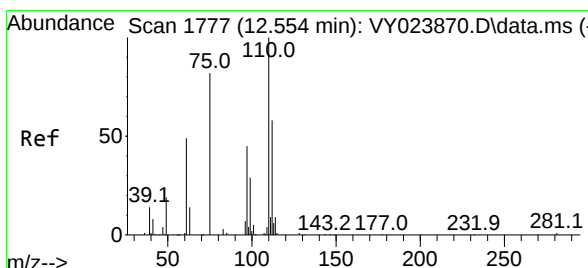
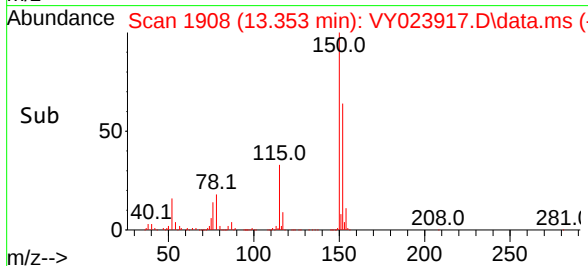
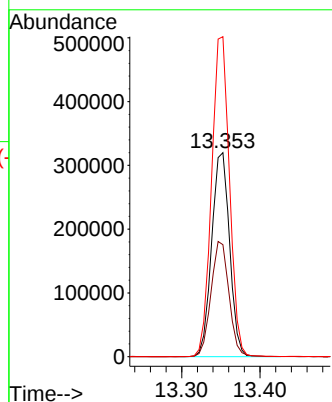
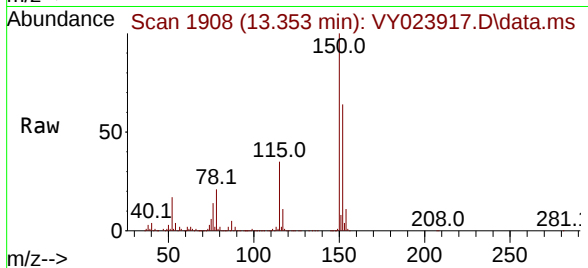
Tgt Ion:152 Resp: 507538

Ion Ratio Lower Upper

152 100

115 56.9 28.8 86.4

150 156.9 0.0 352.2



#76

1,2,3-Trichloropropane

Concen: 48.058 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023917.D

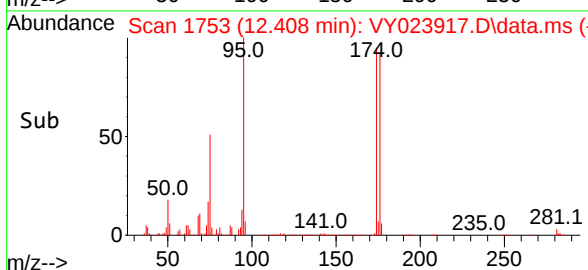
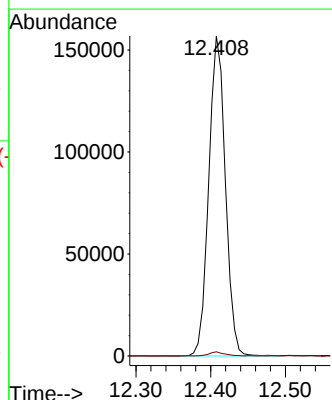
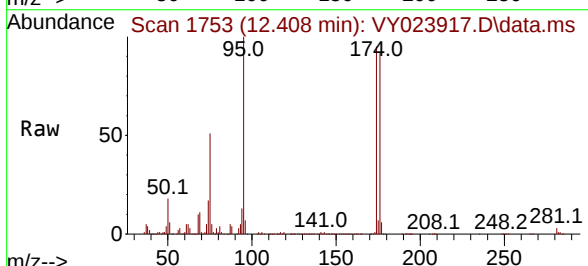
Acq: 09 Dec 2025 18:37

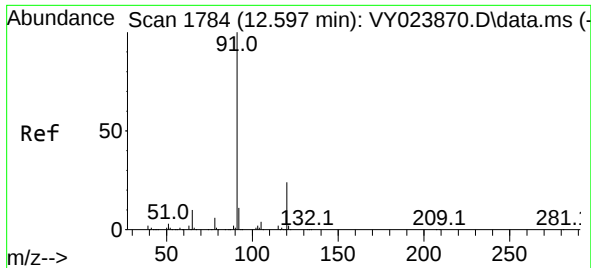
Tgt Ion: 75 Resp: 241808

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

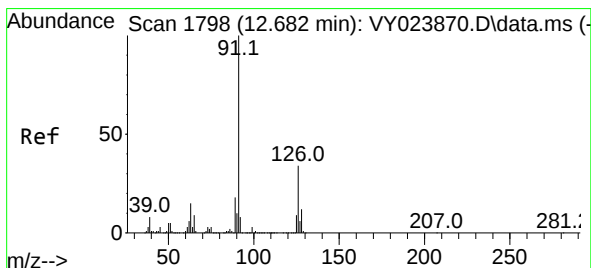
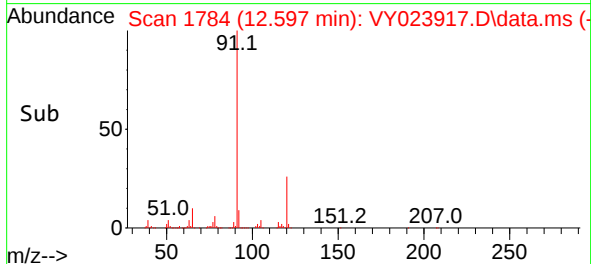
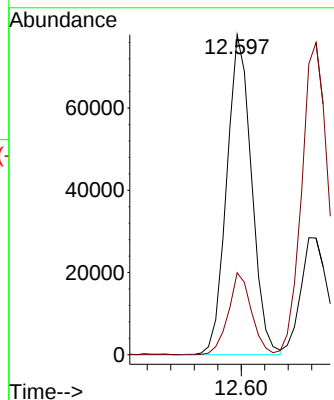
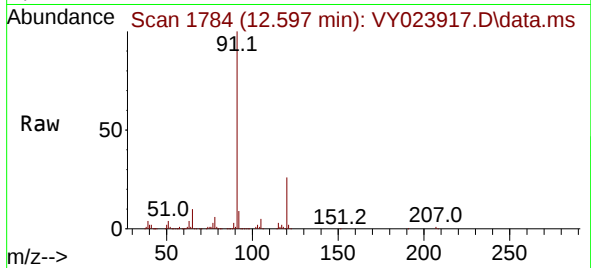




#78
n-propylbenzene
Concen: 2.536 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

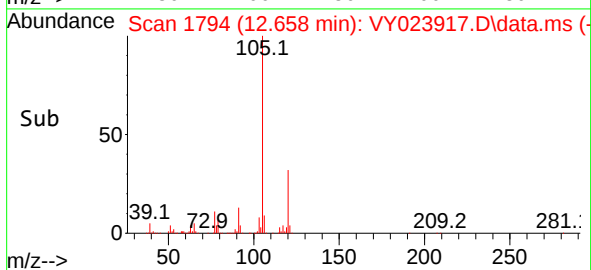
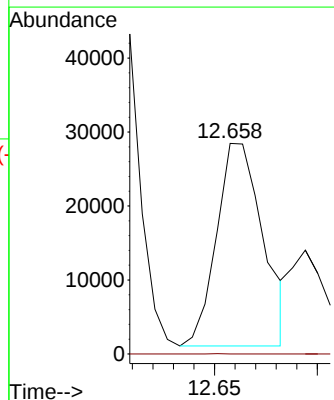
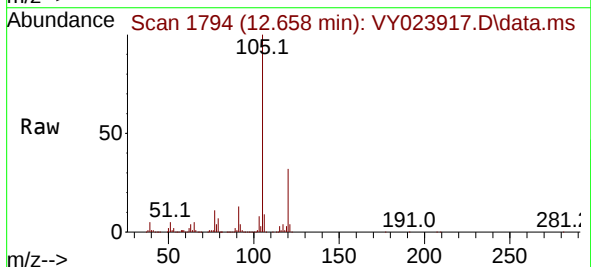
Instrument :
MSVOA_Y
ClientSampleId :
B-4

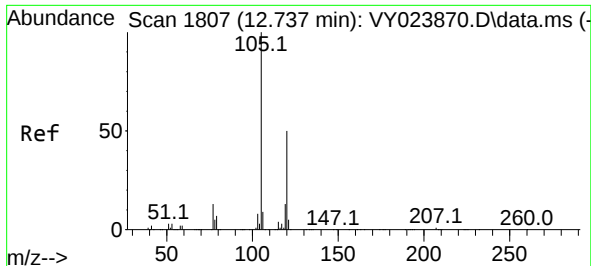
Tgt Ion: 91 Resp: 114436
Ion Ratio Lower Upper
91 100
120 23.8 11.5 34.5



#79
2-Chlorotoluene
Concen: 1.680 ug/l
RT: 12.658 min Scan# 1794
Delta R.T. -0.024 min
Lab File: VY023917.D
Acq: 09 Dec 2025 18:37

Tgt Ion: 91 Resp: 43061
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#

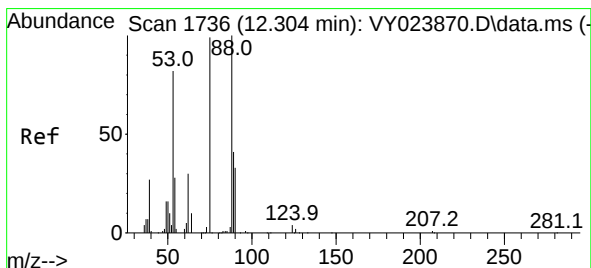
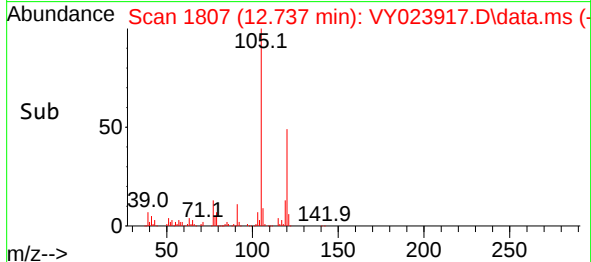
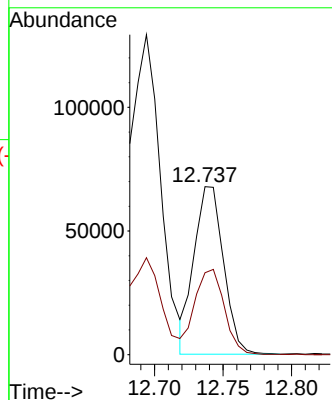
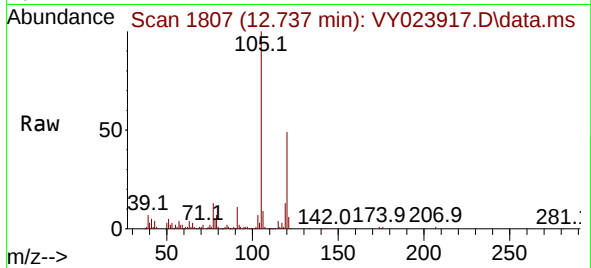




#80
 1,3,5-Trimethylbenzene
 Concen: 3.348 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VY023917.D
 Acq: 09 Dec 2025 18:37

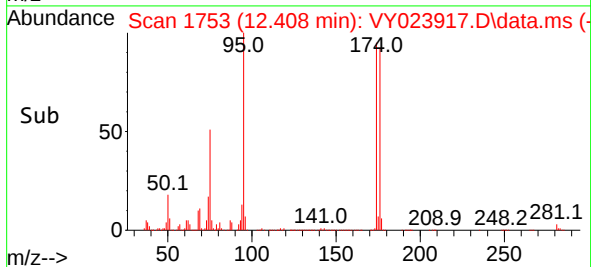
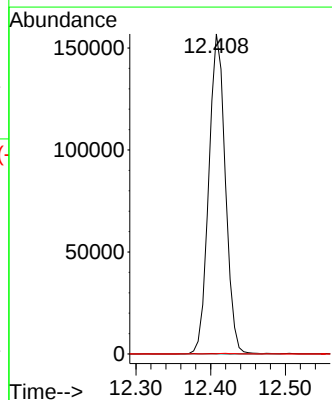
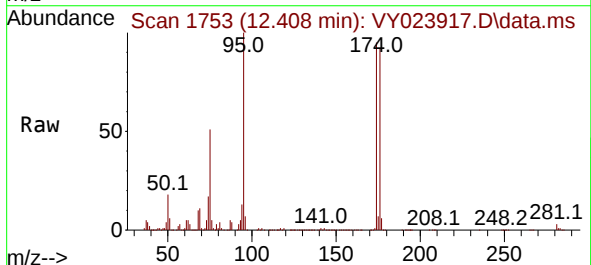
Instrument :
 MSVOA_Y
 ClientSampleId :
 B-4

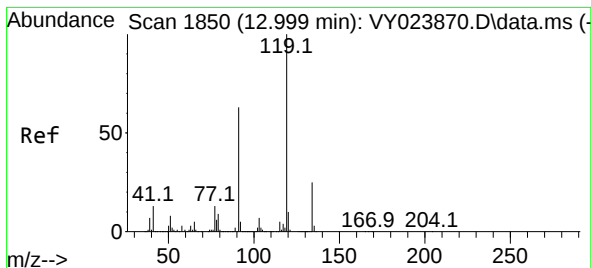
Tgt Ion:105 Resp: 101711
 Ion Ratio Lower Upper
 105 100
 120 50.6 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 115.103 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.104 min
 Lab File: VY023917.D
 Acq: 09 Dec 2025 18:37

Tgt Ion: 75 Resp: 241808
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.1 106.7#
 89 0.1 36.3 54.5#





#83

tert-Butylbenzene

Concen: 1.770 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.049 min

Lab File: VY023917.D

Acq: 09 Dec 2025 18:37

Instrument :

MSVOA_Y

ClientSampleId :

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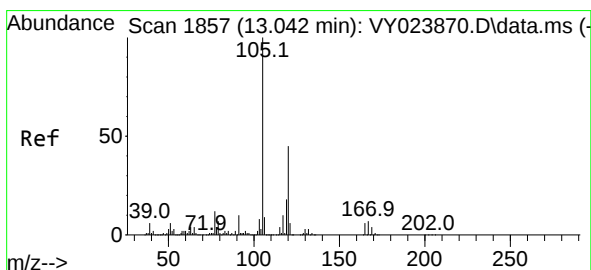
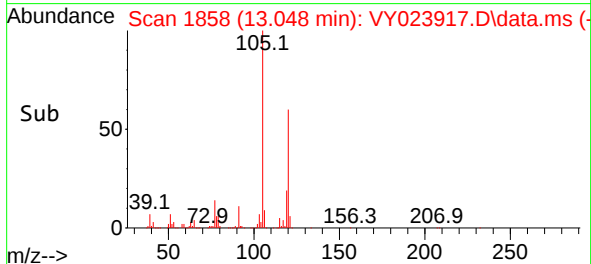
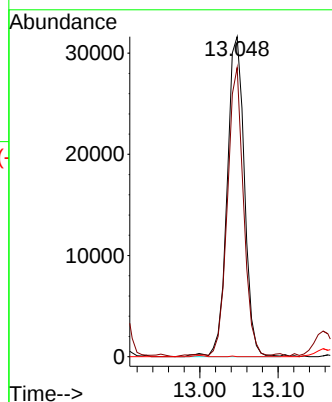
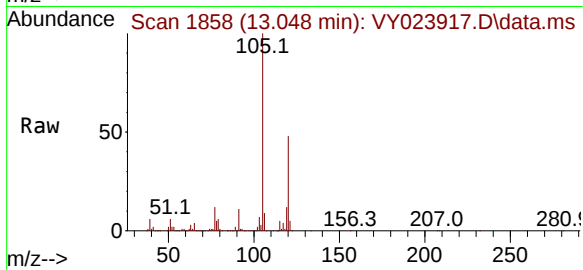
Tgt Ion:119 Resp: 48474

Ion Ratio Lower Upper

119 100

91 83.4 31.8 95.3

134 0.0 12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 12.683 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023917.D

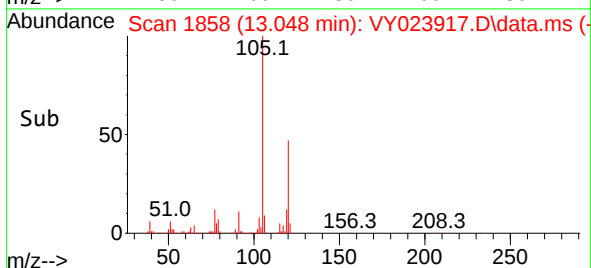
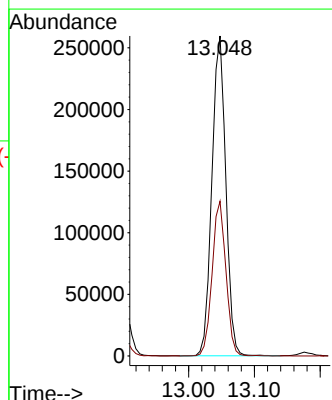
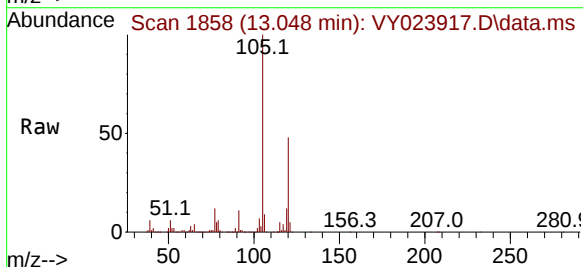
Acq: 09 Dec 2025 18:37

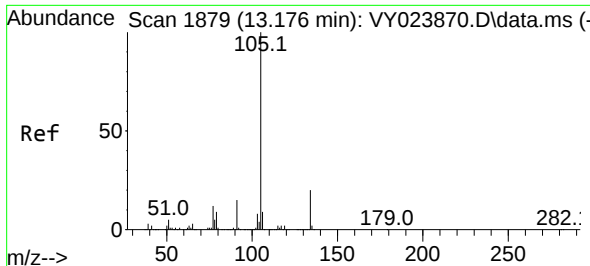
Tgt Ion:105 Resp: 381768

Ion Ratio Lower Upper

105 100

120 48.2 22.4 67.3

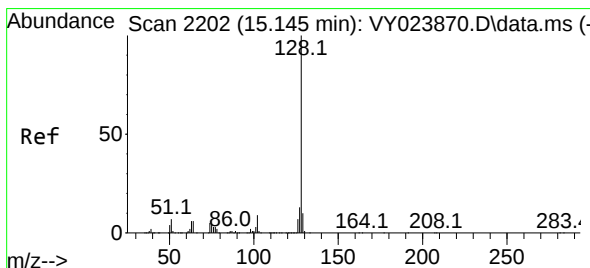
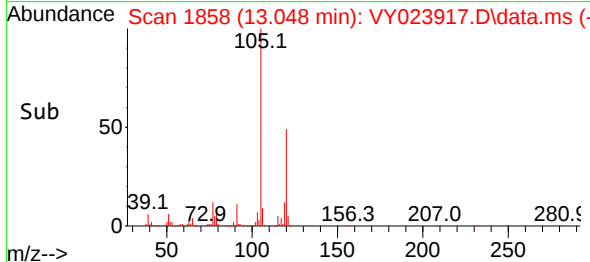
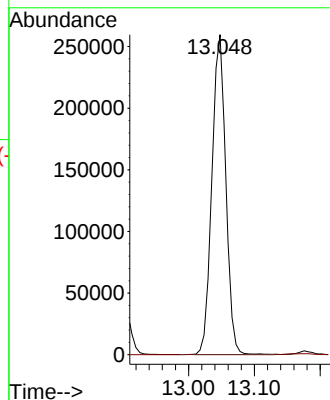
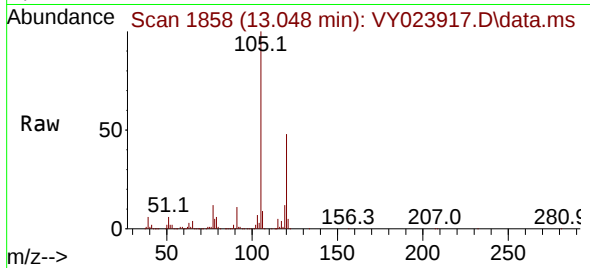




#85
 sec-Butylbenzene
 Concen: 9.369 ug/l
 RT: 13.048 min Scan# 1858
 Delta R.T. -0.128 min
 Lab File: VY023917.D
 Acq: 09 Dec 2025 18:37

Instrument :
 MSVOA_Y
 ClientSampleId :
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Tgt Ion:105 Resp: 381768
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.3#



#95
 Naphthalene
 Concen: 1.192 ug/l
 RT: 15.151 min Scan# 2203
 Delta R.T. 0.006 min
 Lab File: VY023917.D
 Acq: 09 Dec 2025 18:37

Tgt Ion:128 Resp: 17731
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.3 15.5
 129 10.9 8.7 13.1

