

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081525\
 Data File : VY023116.D
 Acq On : 15 Aug 2025 11:07
 Operator : SY/MD
 Sample : Q2877-01
 Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-02-08142025

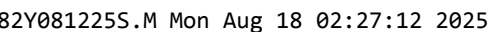
Quant Time: Aug 18 02:27:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	420885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	794068	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	740057	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	336966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	248987	62.071	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.140%			
35) Dibromofluoromethane	7.634	113	258233	54.348	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.700%			
50) Toluene-d8	10.103	98	981774	52.892	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.780%			
62) 4-Bromofluorobenzene	12.402	95	322697	54.058	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.120%			
Target Compounds					Qvalue	
16) Acetone	3.867	43	1348	1.551	ug/l #	70
20) Methylene Chloride	4.604	84	8725	Below Cal		93
31) Cyclohexane	7.707	56	9389	1.257	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	34200	4.843	ug/l #	49
38) Carbon Tetrachloride	7.707	117	42374	5.525	ug/l #	16
49) 1,4-Dioxane	9.225	88	47	1.395	ug/l #	1
55) 1,1,2-Trichloroethane	10.542	97	15203	3.953	ug/l #	20
59) 2-Hexanone	10.725	43	17837	8.470	ug/l #	27
67) Ethyl Benzene	11.518	91	34537	1.257	ug/l	96
68) m/p-Xylenes	11.621	106	64606	6.022	ug/l	98
69) o-Xylene	11.950	106	70985	7.064	ug/l	92
73) Isopropylbenzene	12.249	105	41632	1.751	ug/l	97
74) N-amyl acetate	12.048	43	123859	24.558	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.444	83	9484	2.335	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	167346	51.458	ug/l #	100
78) n-propylbenzene	12.591	91	120397	4.252	ug/l	99
79) 2-Chlorotoluene	12.688	91	24696	1.522	ug/l #	44
80) 1,3,5-Trimethylbenzene	12.731	105	472873	24.602	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.402	75	167346	124.564	ug/l #	14
82) 4-Chlorotoluene	12.731	91	51406	3.054	ug/l #	50
83) tert-Butylbenzene	13.036	119	102092	5.881	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.036	105	824297	43.081	ug/l	99
85) sec-Butylbenzene	13.170	105	122719	4.812	ug/l	87
86) p-Isopropyltoluene	13.286	119	92798	4.384	ug/l	97
89) n-Butylbenzene	13.615	91	69347	3.567	ug/l #	69
90) Hexachloroethane	13.889	117	26399	6.092	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.249	75	1857	2.937	ug/l #	1
95) Naphthalene	15.139	128	21618	2.185	ug/l #	82

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

Quant Time: Aug 18 02:27:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

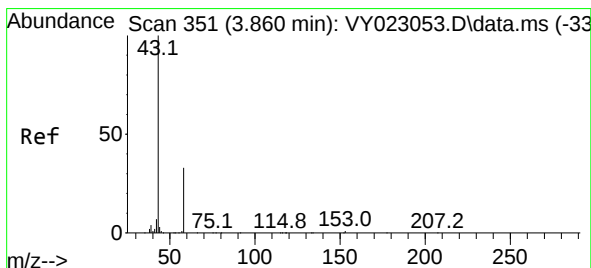
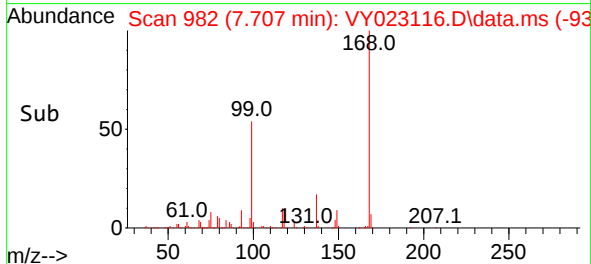
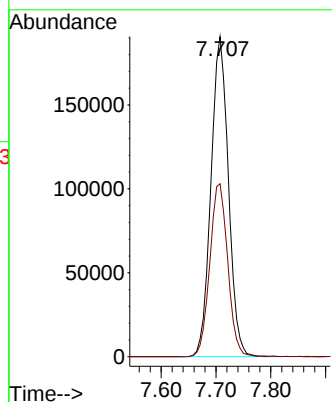
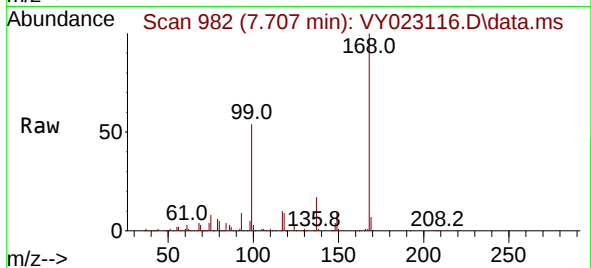




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

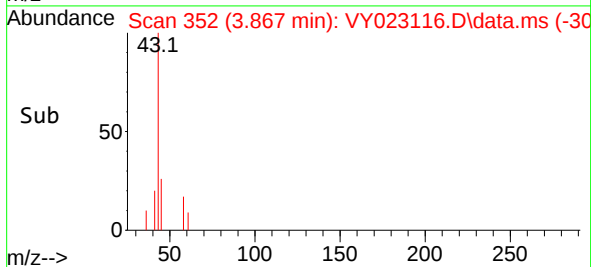
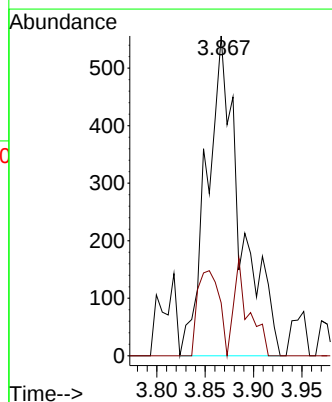
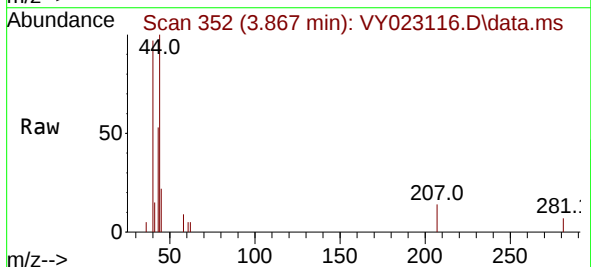
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

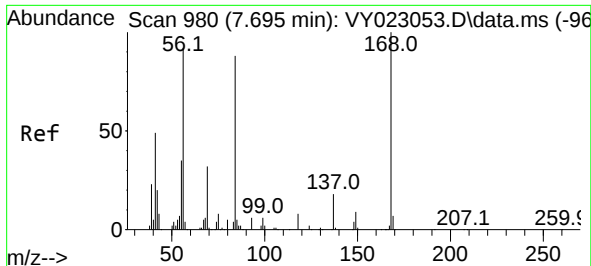
Tgt Ion:168 Resp: 420885
Ion Ratio Lower Upper
168 100
99 54.1 42.8 64.2



#16
Acetone
Concen: 1.551 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 43 Resp: 1348
Ion Ratio Lower Upper
43 100
58 16.5 27.1 40.7#

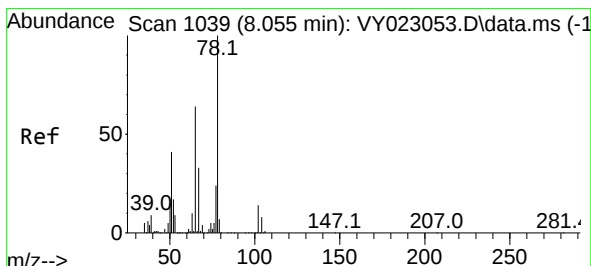
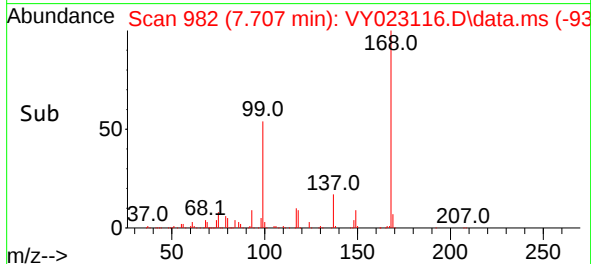
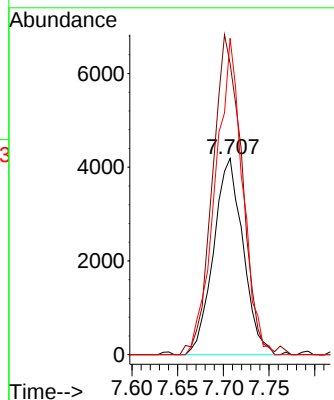
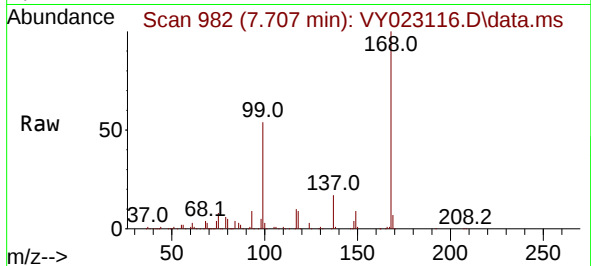




#31
Cyclohexane
Concen: 1.257 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

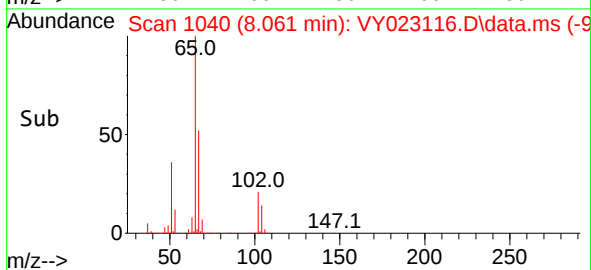
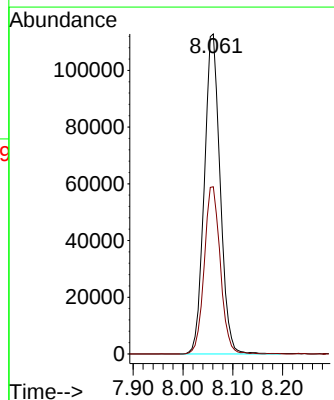
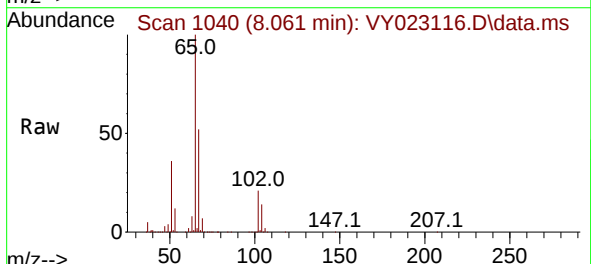
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MSVOA_Y
ClientSampleId :
EO-02-08142025

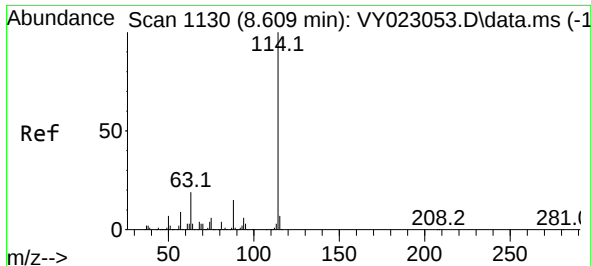
Tgt Ion: 56 Resp: 9389
Ion Ratio Lower Upper
56 100
69 148.3 28.2 42.2#
84 161.2 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 62.071 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 65 Resp: 248987
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8

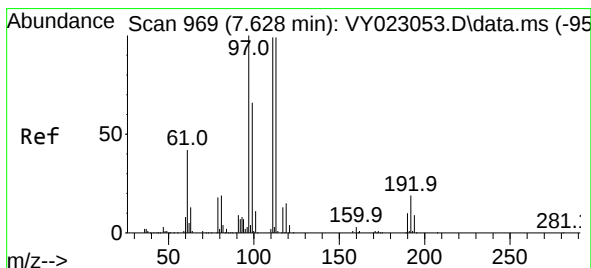
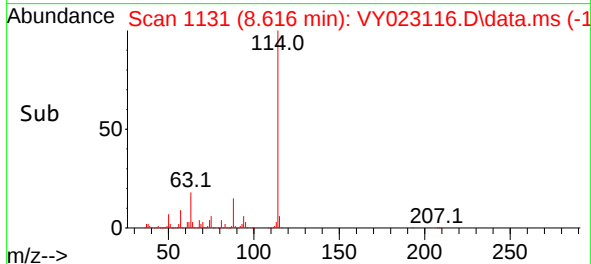
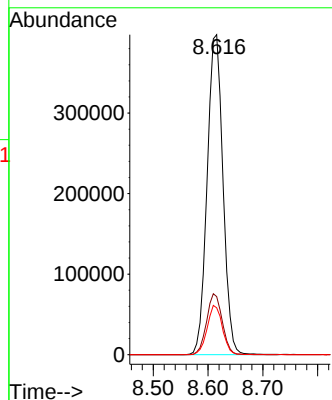
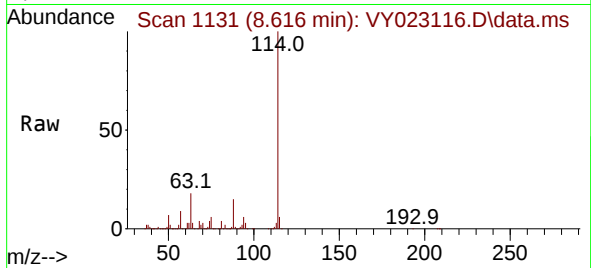




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

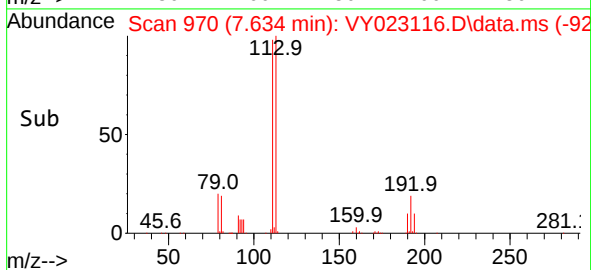
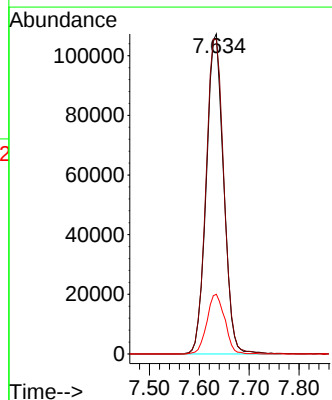
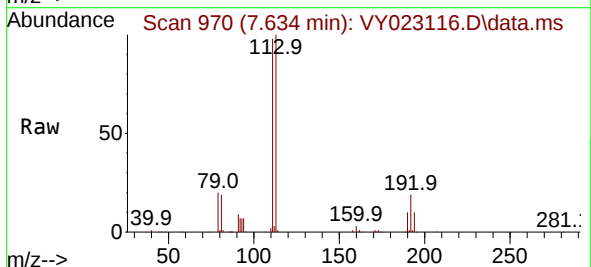
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

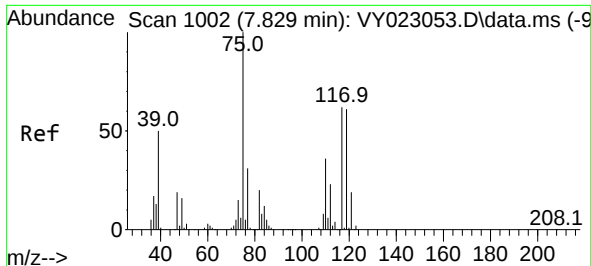
Tgt Ion:114 Resp: 794068
Ion Ratio Lower Upper
114 100
63 18.1 0.0 38.4
88 14.6 0.0 30.0



#35
Dibromofluoromethane
Concen: 54.348 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion:113 Resp: 258233
Ion Ratio Lower Upper
113 100
111 102.1 81.1 121.7
192 19.3 16.2 24.4

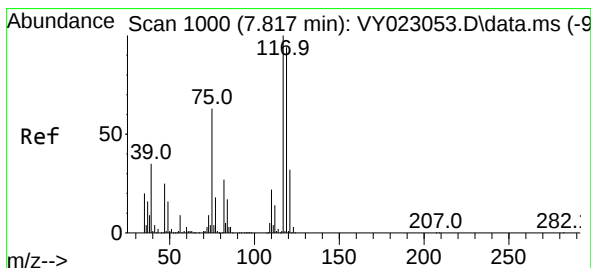
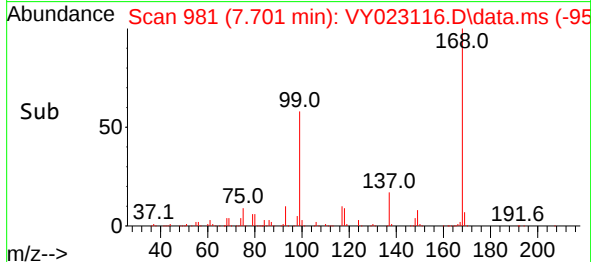
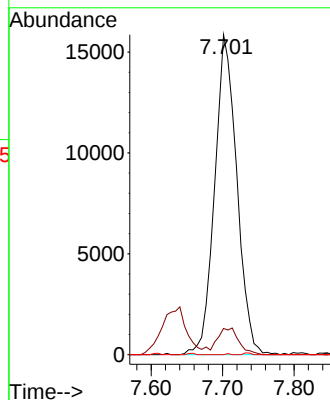
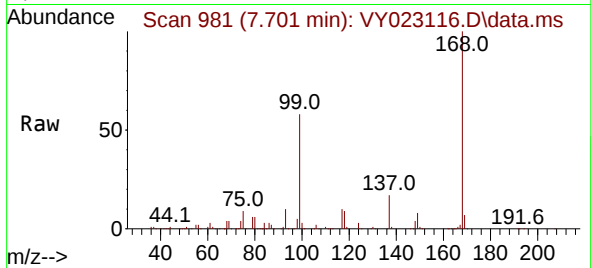




#36
1,1-Dichloropropene
Concen: 4.843 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

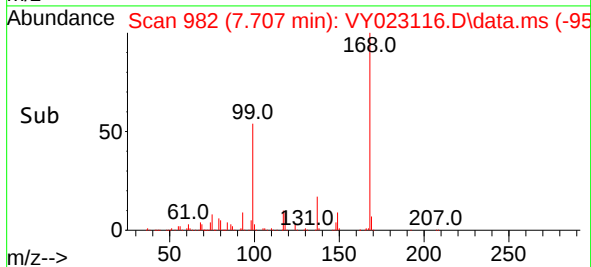
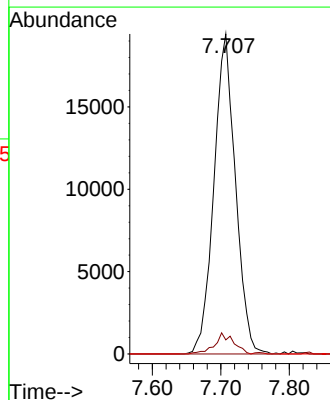
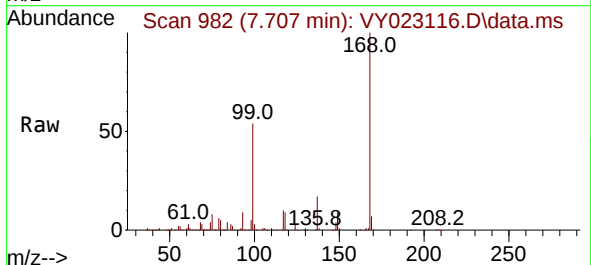
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

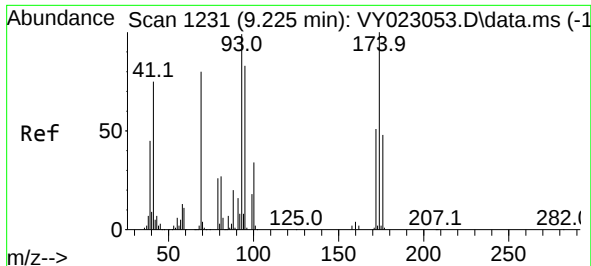
Tgt Ion: 75 Resp: 34200
Ion Ratio Lower Upper
75 100
110 8.5 18.1 54.4#
77 0.1 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 5.525 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 117 Resp: 42374
Ion Ratio Lower Upper
117 100
119 4.4 75.6 113.4#
121 0.0 25.8 38.8#





#49

1,4-Dioxane

Concen: 1.395 ug/l

RT: 9.225 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY023116.D

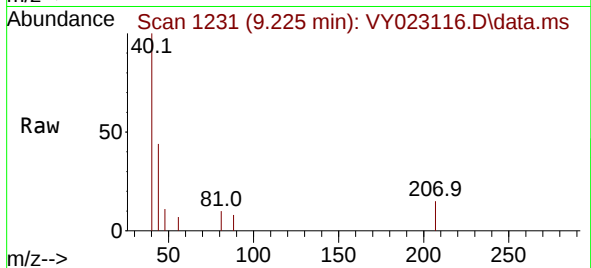
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Instrument :

MSVOA_Y

ClientSampleId :

EO-02-08142025



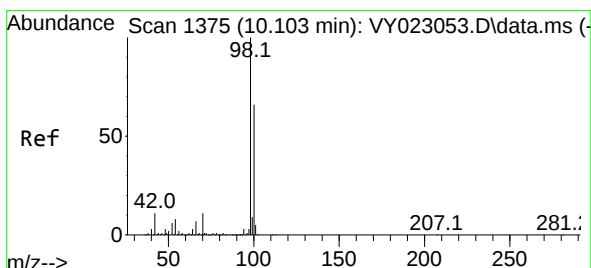
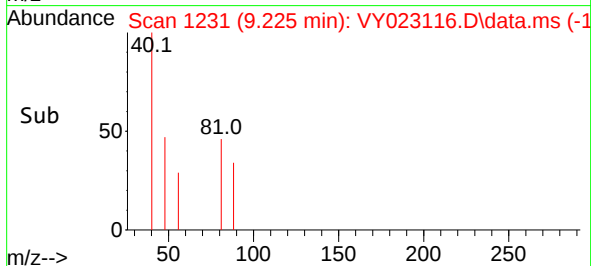
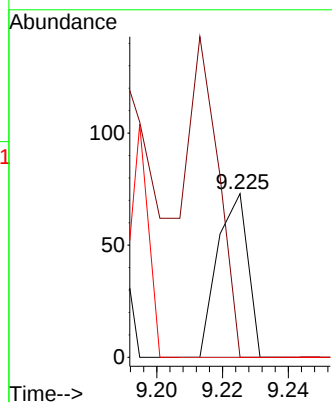
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 174.5 24.3 36.5#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 52.892 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY023116.D

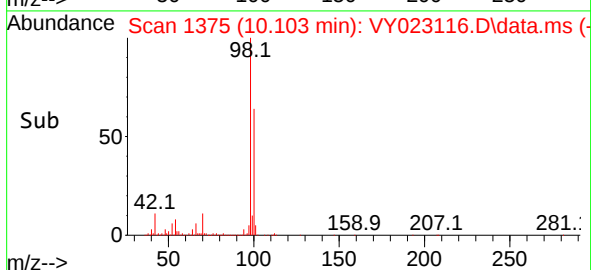
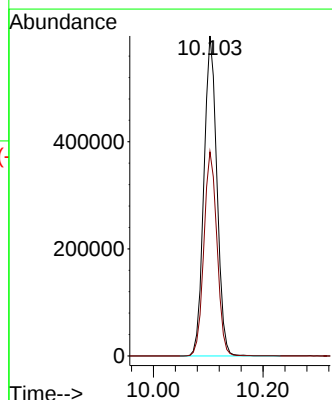
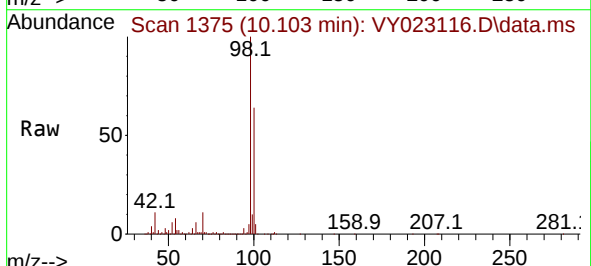
Acq: 15 Aug 2025 11:07

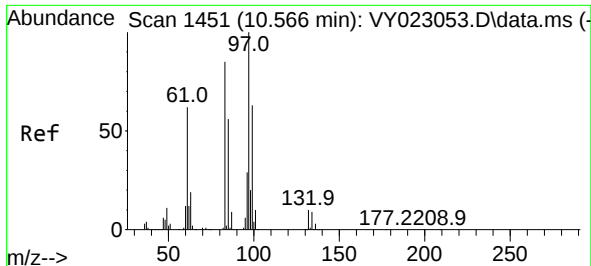
Tgt Ion: 98 Resp: 981774

Ion Ratio Lower Upper

98 100

100 64.2 52.3 78.5

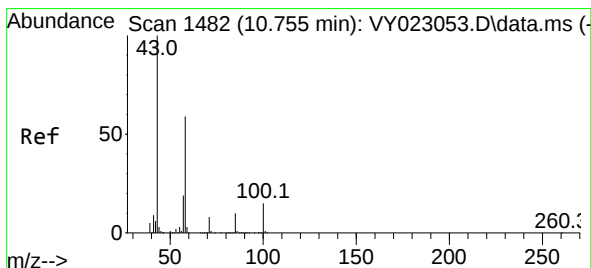
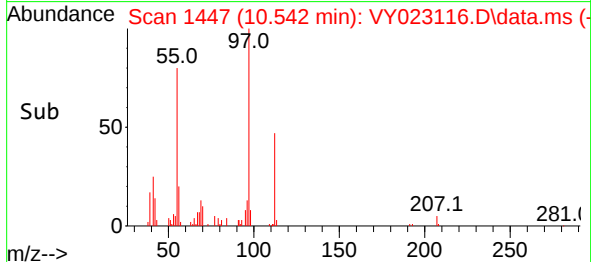
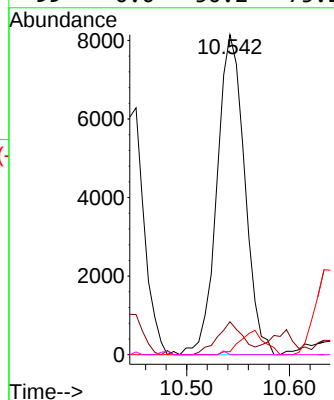
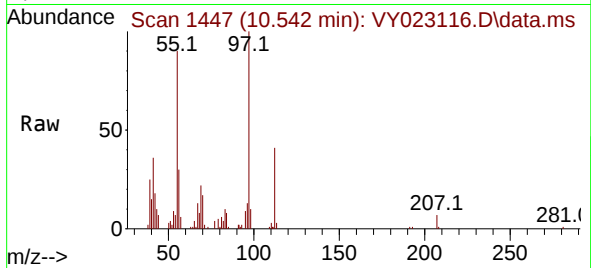




#55
1,1,2-Trichloroethane
Concen: 3.953 ug/l
RT: 10.542 min Scan# 1451
Delta R.T. -0.024 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

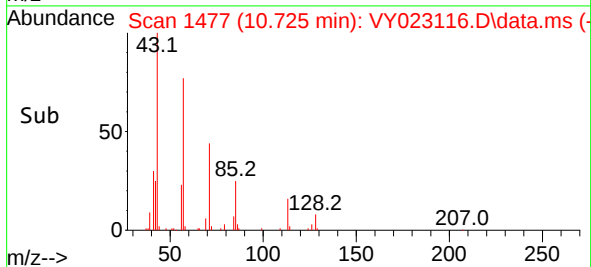
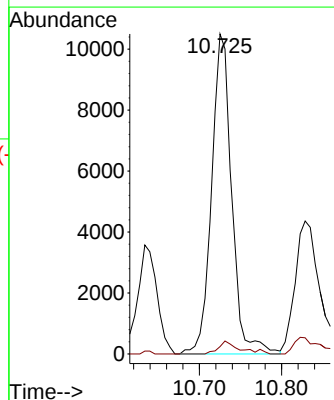
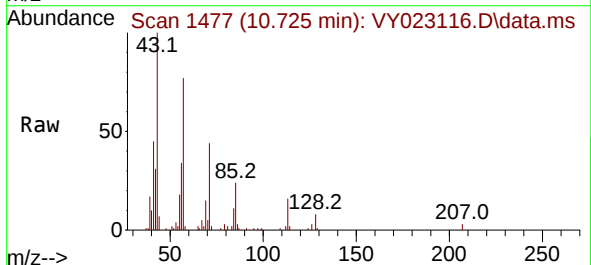
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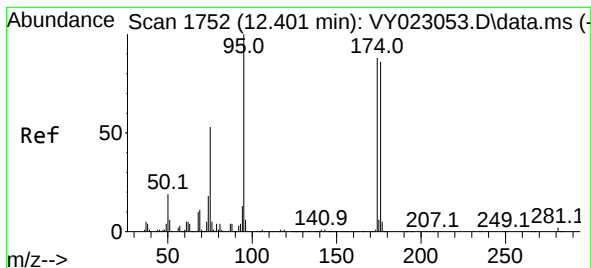
Tgt Ion: 97	Resp: 15203
Ion Ratio	Lower Upper
97 100	
83 10.3	67.7 101.5#
85 0.9	44.5 66.7#
99 0.0	50.2 75.2#



#59
2-Hexanone
Concen: 8.470 ug/l
RT: 10.725 min Scan# 1477
Delta R.T. -0.030 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 43	Resp: 17837
Ion Ratio	Lower Upper
43 100	
58 4.2	29.5 88.5#

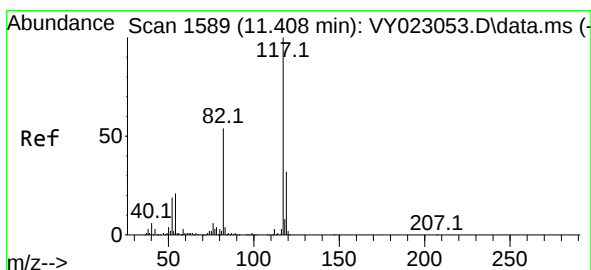
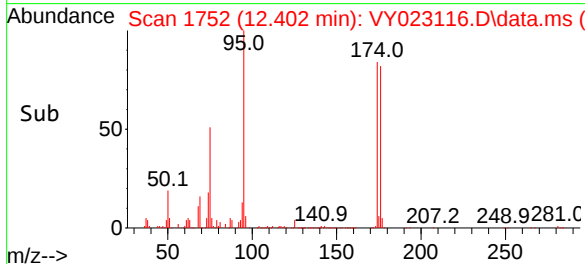
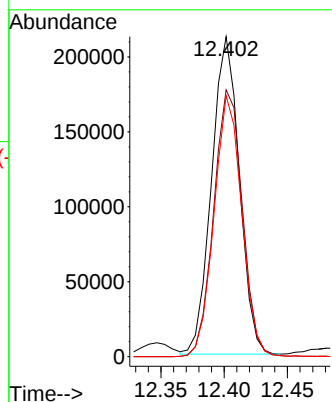
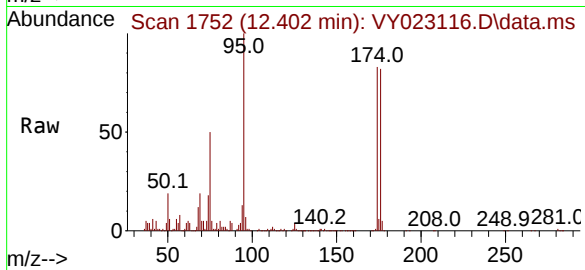




#62
4-Bromofluorobenzene
Concen: 54.058 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

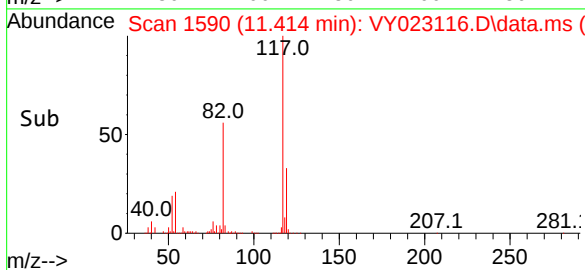
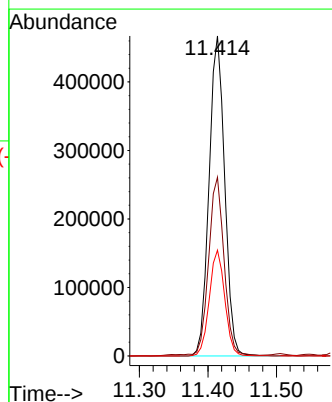
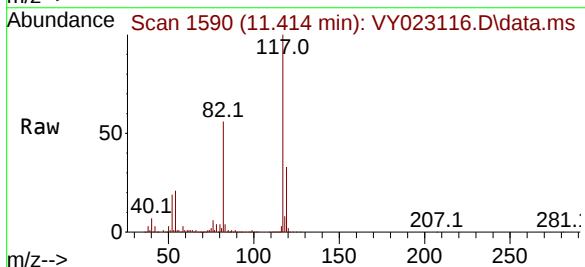
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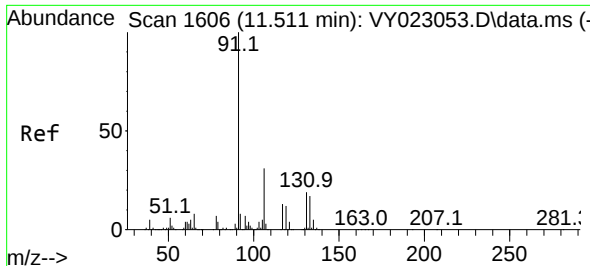
Tgt Ion: 95 Resp: 322697
Ion Ratio Lower Upper
95 100
174 86.6 0.0 171.6
176 82.3 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 117 Resp: 740057
Ion Ratio Lower Upper
117 100
82 55.4 43.4 65.0
119 33.0 25.6 38.4





#67

Ethyl Benzene

Concen: 1.257 ug/l

RT: 11.518 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

Instrument :

MSVOA_Y

ClientSampleId :

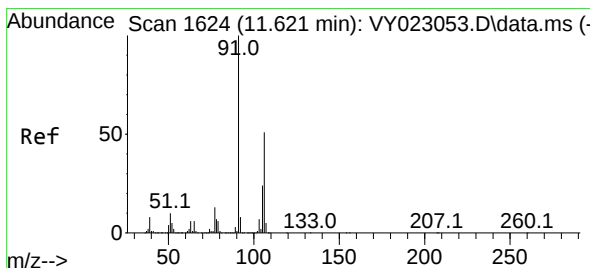
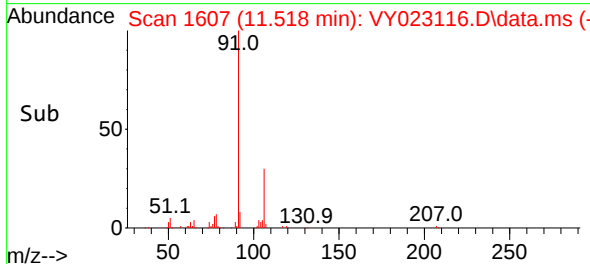
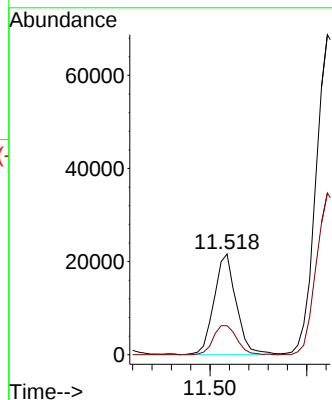
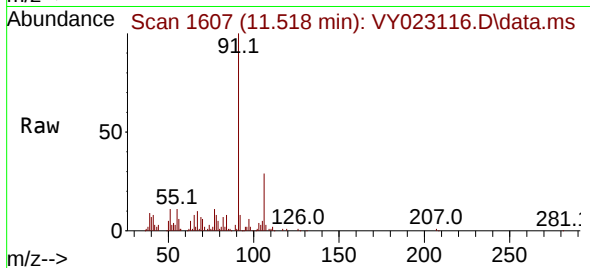
EO-02-08142025

Tgt Ion: 91 Resp: 34537

Ion Ratio Lower Upper

91 100

106 28.8 25.0 37.4



#68

m/p-Xylenes

Concen: 6.022 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. 0.000 min

Lab File: VY023116.D

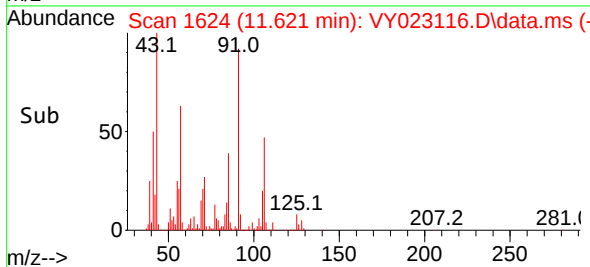
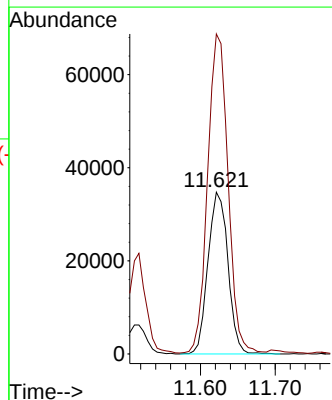
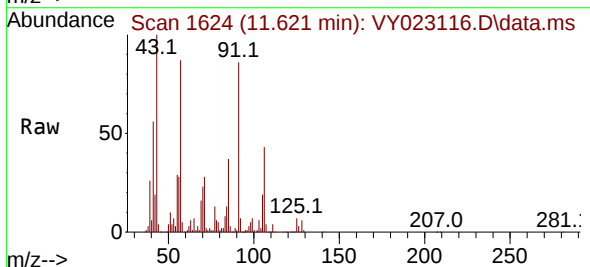
Acq: 15 Aug 2025 11:07

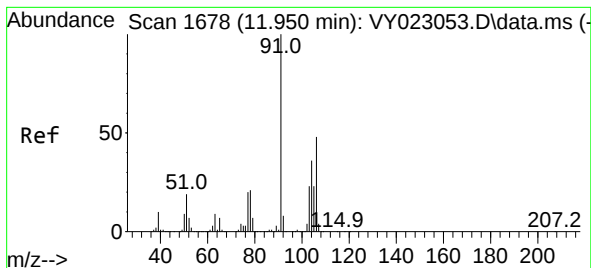
Tgt Ion:106 Resp: 64606

Ion Ratio Lower Upper

106 100

91 201.0 158.6 238.0





#69

o-Xylene

Concen: 7.064 ug/l

RT: 11.950 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

Instrument :

MSVOA_Y

ClientSampleId :

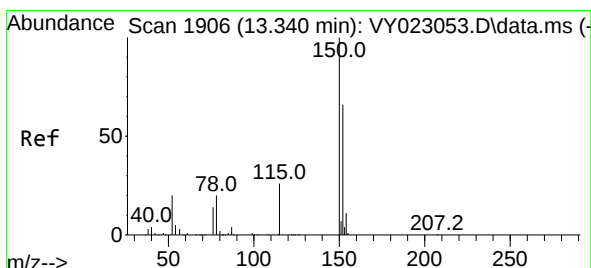
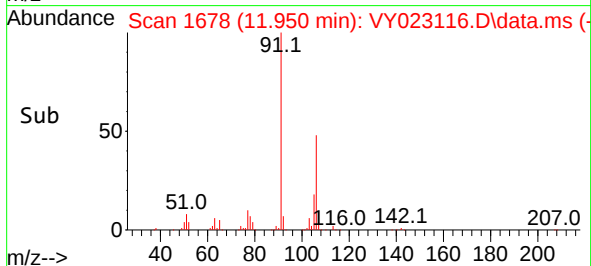
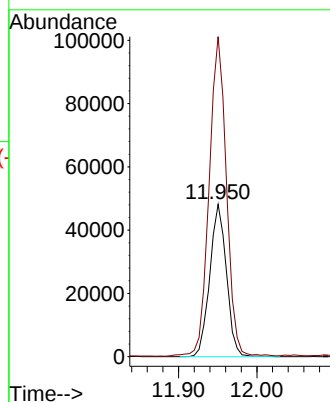
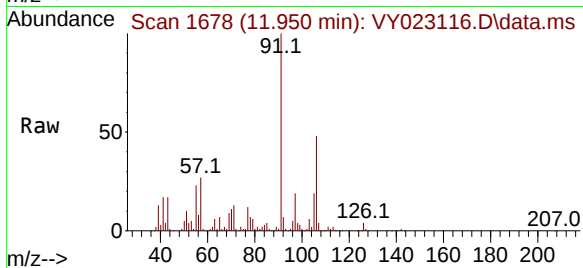
EO-02-08142025

Tgt Ion:106 Resp: 70985

Ion Ratio Lower Upper

106 100

91 218.0 103.2 309.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

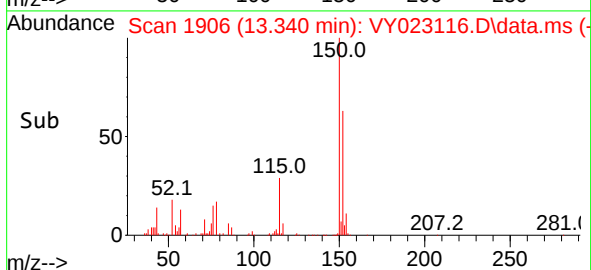
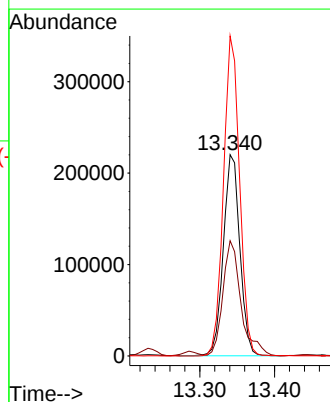
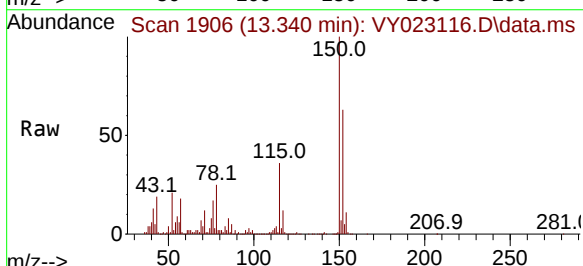
Tgt Ion:152 Resp: 336966

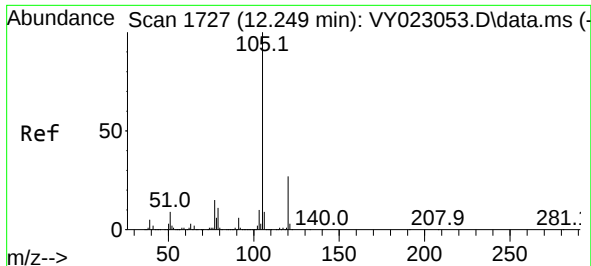
Ion Ratio Lower Upper

152 100

115 62.7 28.2 84.6

150 155.6 0.0 348.0

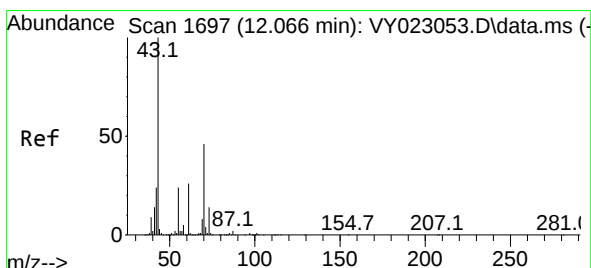
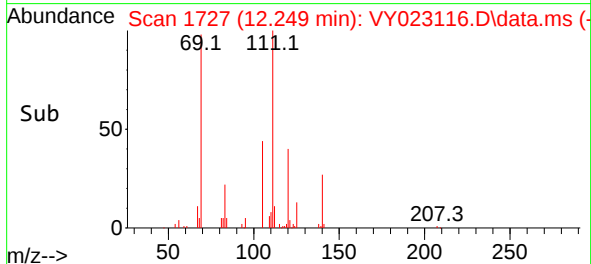
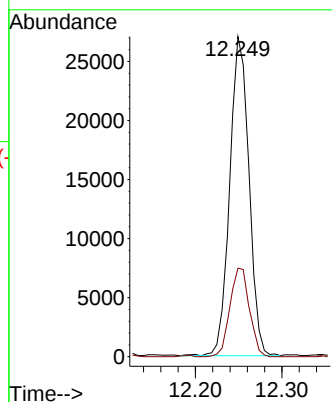
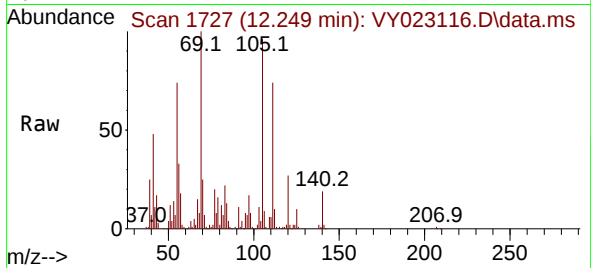




#73
Isopropylbenzene
Concen: 1.751 ug/l
RT: 12.249 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

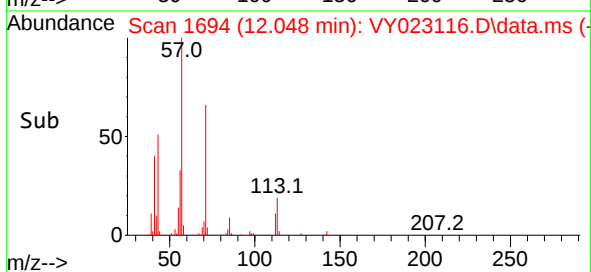
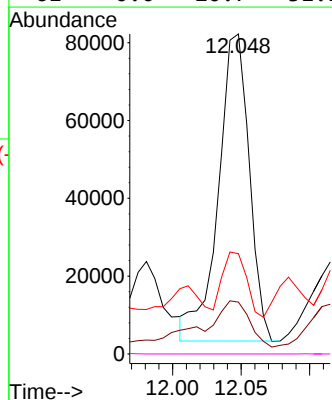
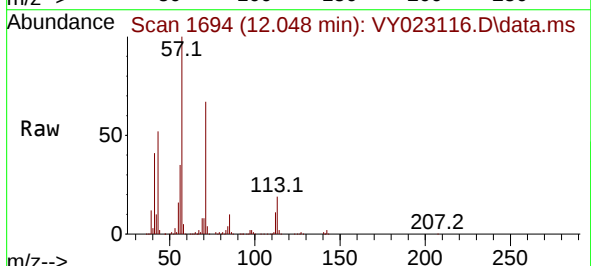
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

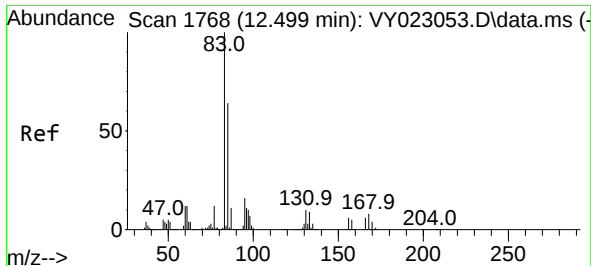
Tgt Ion:105 Resp: 41632
Ion Ratio Lower Upper
105 100
120 28.1 13.4 40.2



#74
N-ethyl acetate
Concen: 24.558 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.018 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 43 Resp: 123859
Ion Ratio Lower Upper
43 100
70 22.4 37.5 56.3#
55 16.3 20.7 31.1#
61 0.0 20.7 31.1#

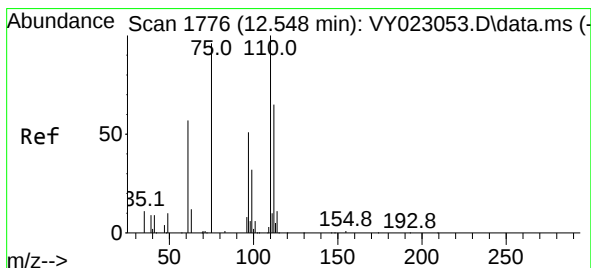
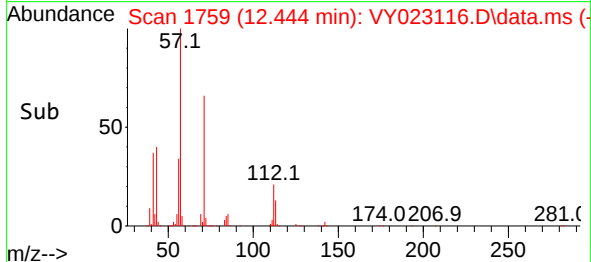
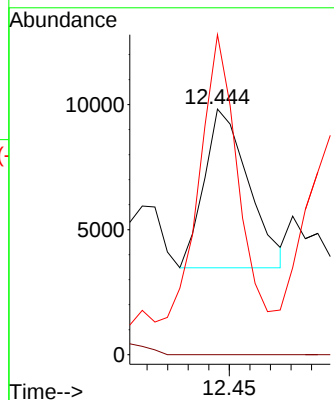
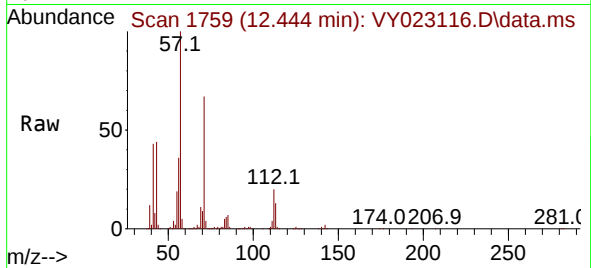




#75
 1,1,2-Tetrachloroethane
 Concen: 2.335 ug/l
 RT: 12.444 min Scan# 1752
 Delta R.T. -0.055 min
 Lab File: VY023116.D
 Acq: 15 Aug 2025 11:07

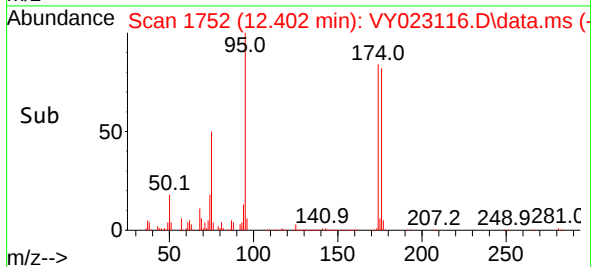
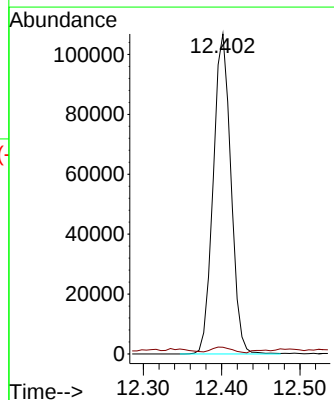
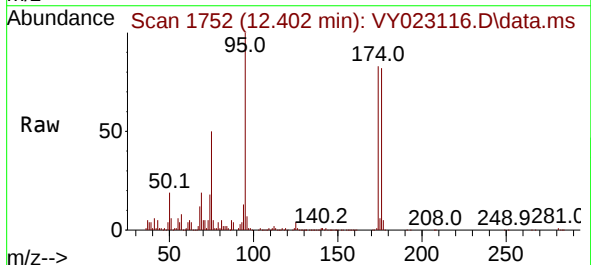
Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-02-08142025

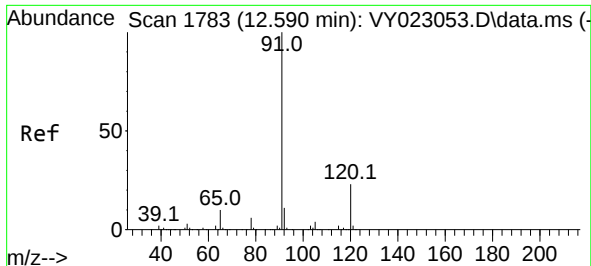
Tgt Ion: 83 Resp: 9484
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.3#
 85 181.0 31.8 95.3#



#76
 1,2,3-Trichloropropane
 Concen: 51.458 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.146 min
 Lab File: VY023116.D
 Acq: 15 Aug 2025 11:07

Tgt Ion: 75 Resp: 167346
 Ion Ratio Lower Upper
 75 100
 77 2.0 0.0 0.0#

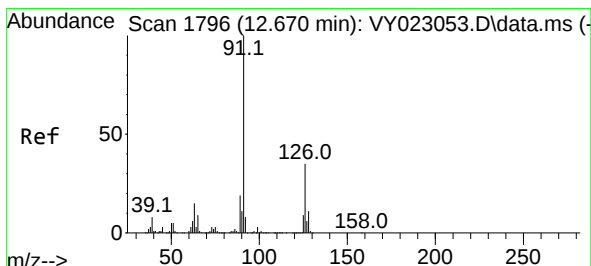
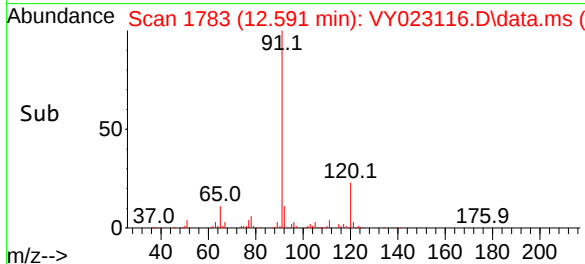
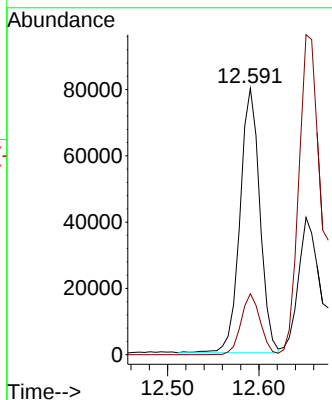
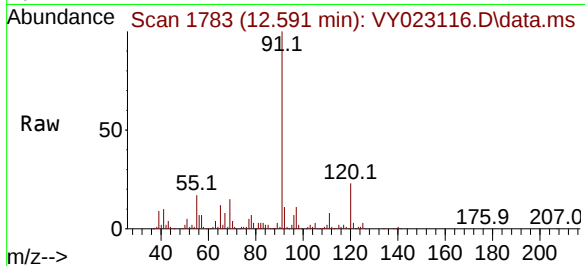




#78
n-propylbenzene
Concen: 4.252 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

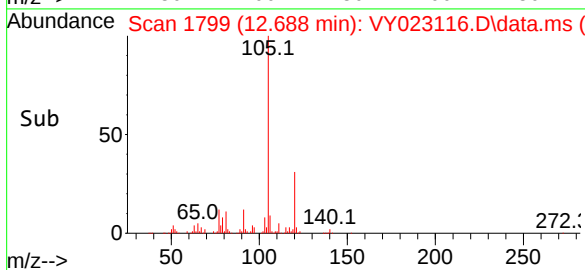
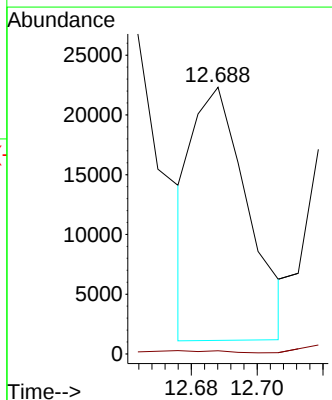
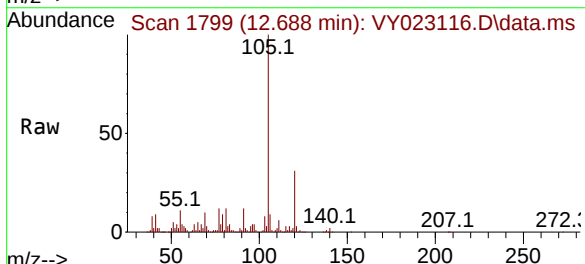
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

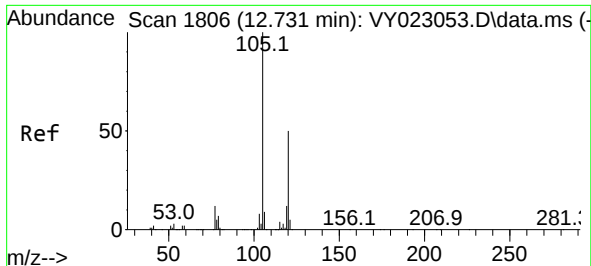
Tgt Ion: 91 Resp: 120397
Ion Ratio Lower Upper
91 100
120 22.3 11.5 34.5



#79
2-Chlorotoluene
Concen: 1.522 ug/l
RT: 12.688 min Scan# 1799
Delta R.T. 0.018 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 91 Resp: 24696
Ion Ratio Lower Upper
91 100
126 2.5 17.4 52.3#

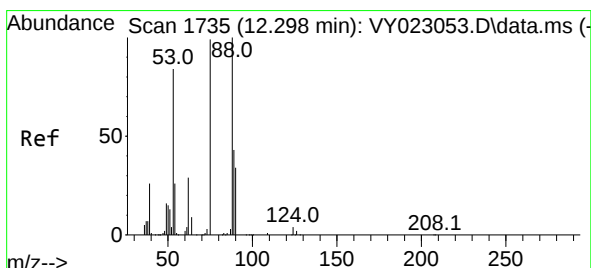
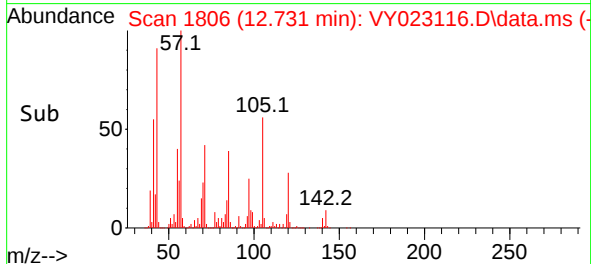
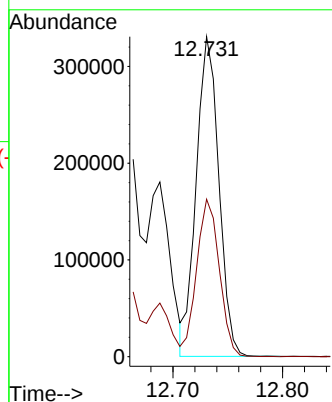
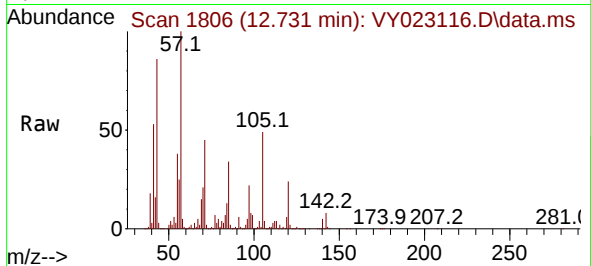




#80
 1,3,5-Trimethylbenzene
 Concen: 24.602 ug/l
 RT: 12.731 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY023116.D
 Acq: 15 Aug 2025 11:07

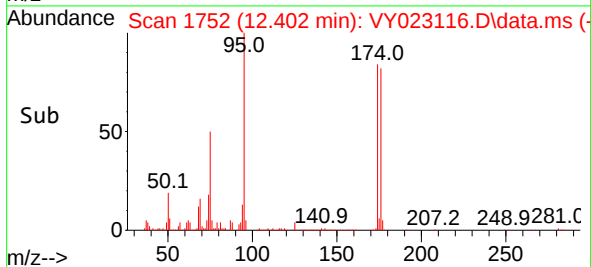
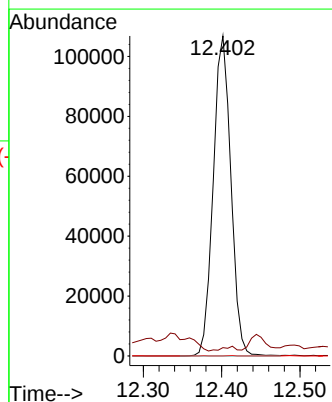
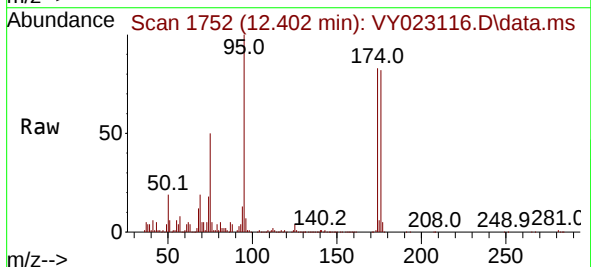
Instrument :
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 ClientSampleId :
 EO-02-08142025

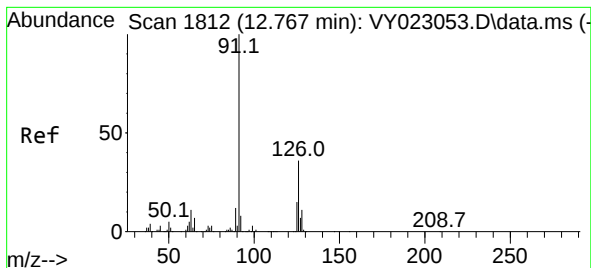
Tgt Ion:105 Resp: 472873
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.564 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023116.D
 Acq: 15 Aug 2025 11:07

Tgt Ion: 75 Resp: 167346
 Ion Ratio Lower Upper
 75 100
 53 1.1 70.8 106.2#
 89 0.0 38.1 57.1#

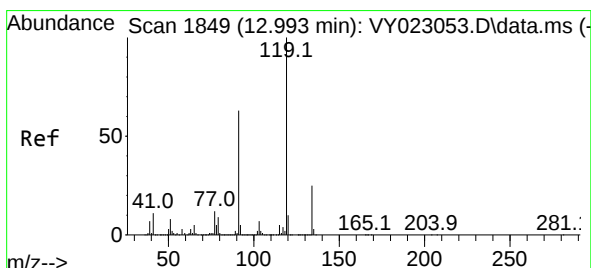
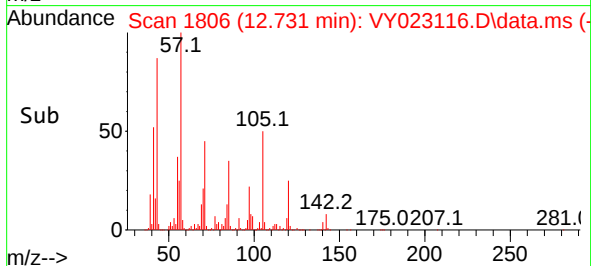
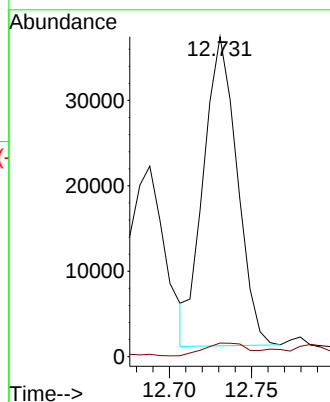
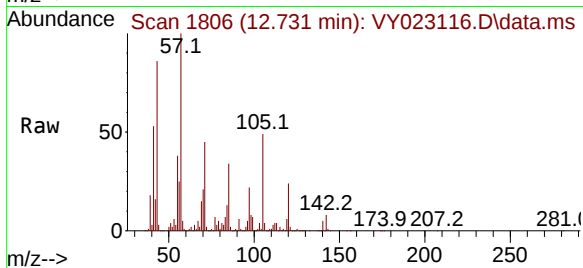




#82
4-Chlorotoluene
Concen: 3.054 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.036 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

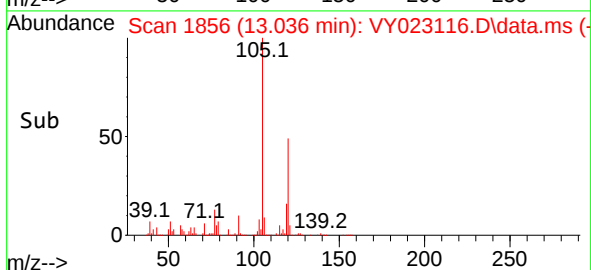
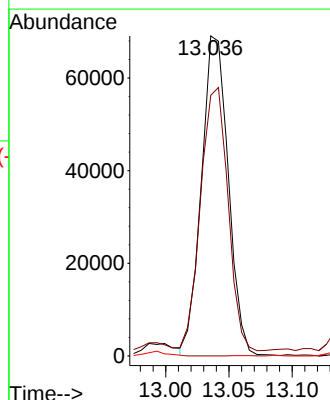
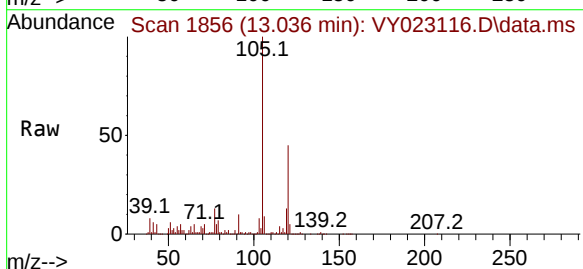
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

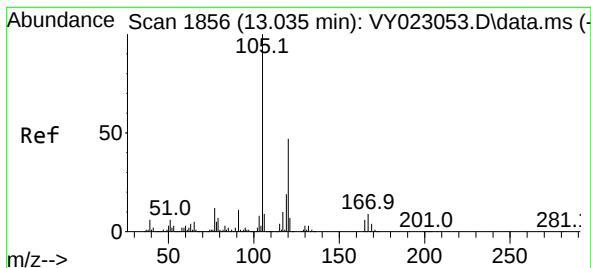
Tgt Ion: 91 Resp: 51406
Ion Ratio Lower Upper
91 100
126 5.5 17.3 52.0#



#83
tert-Butylbenzene
Concen: 5.881 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.043 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion: 119 Resp: 102092
Ion Ratio Lower Upper
119 100
91 83.6 31.6 94.8
134 0.0 12.9 38.7#





#84

1,2,4-Trimethylbenzene

Concen: 43.081 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. 0.000 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

Instrument :

MSVOA_Y

ClientSampleId :

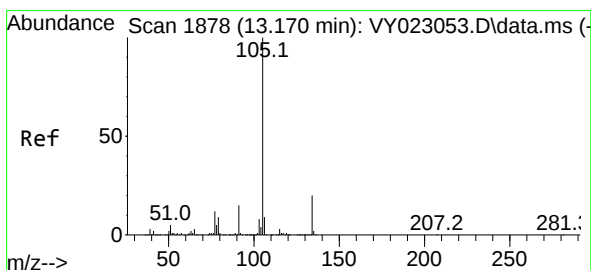
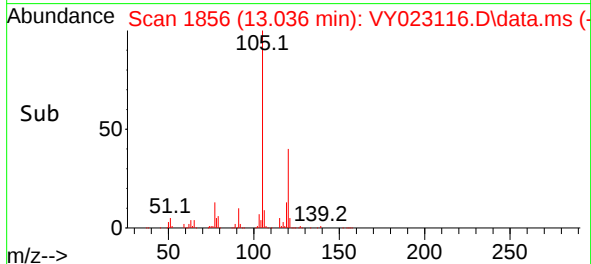
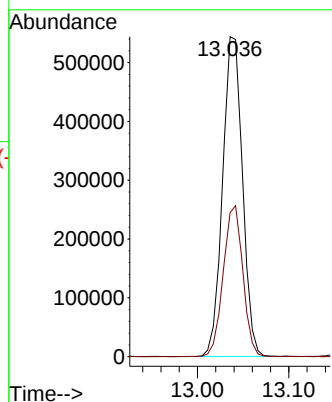
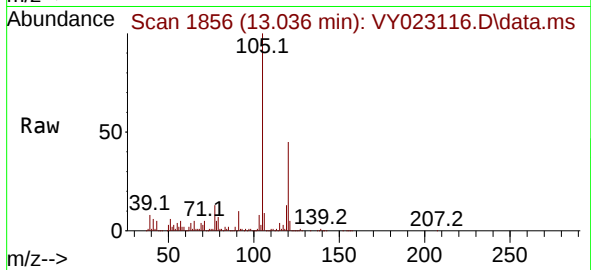
EO-02-08142025

Tgt Ion:105 Resp: 824297

Ion Ratio Lower Upper

105 100

120 46.6 23.0 69.0



#85

sec-Butylbenzene

Concen: 4.812 ug/l

RT: 13.170 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VY023116.D

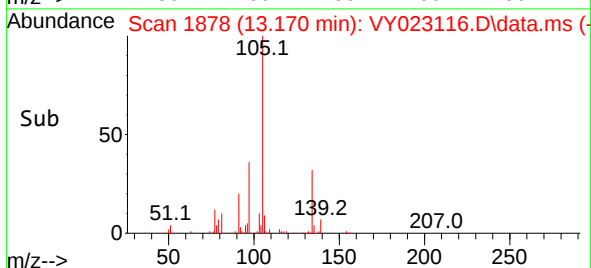
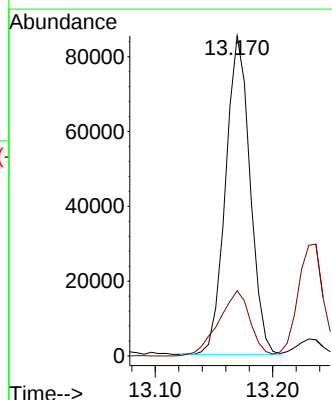
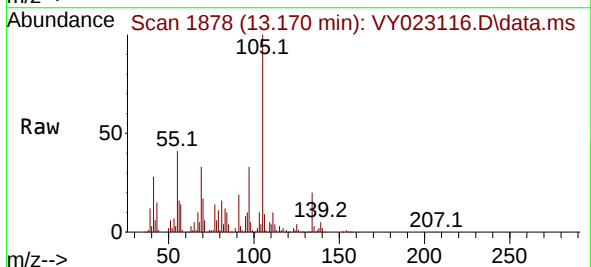
Acq: 15 Aug 2025 11:07

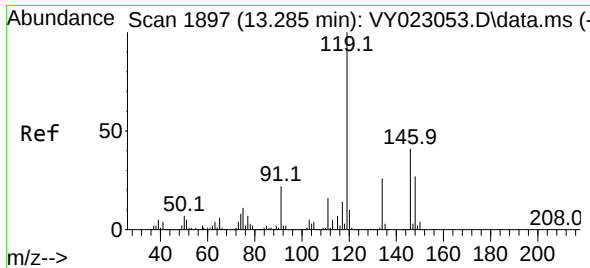
Tgt Ion:105 Resp: 122719

Ion Ratio Lower Upper

105 100

134 26.4 10.2 30.4

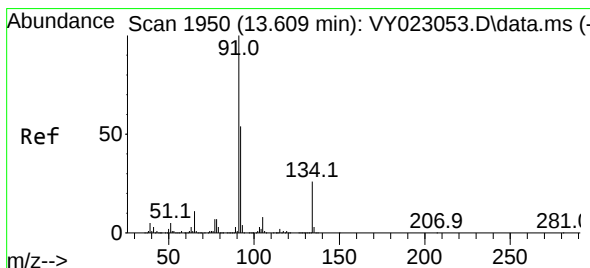
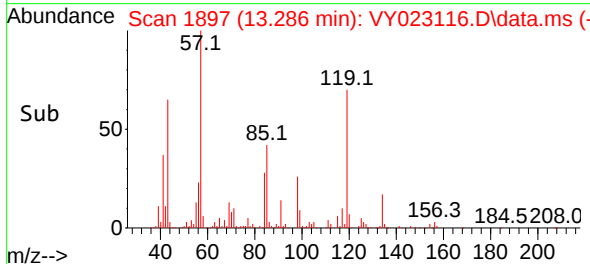
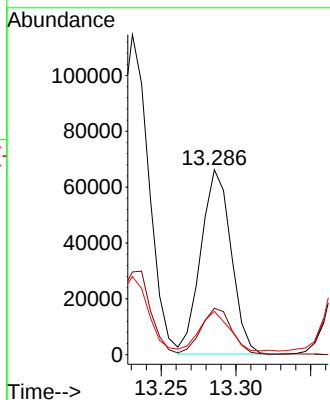
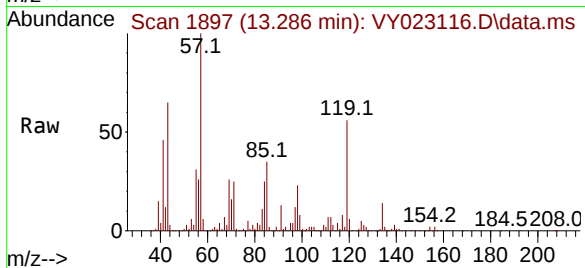




#86
p-Isopropyltoluene
Concen: 4.384 ug/l
RT: 13.286 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

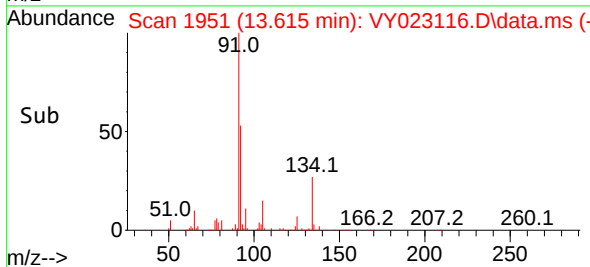
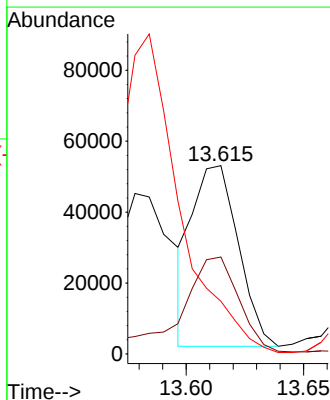
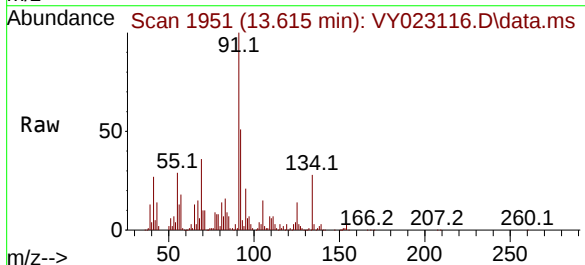
Instrument :
MSVOA_Y
ClientSampleId :
EO-02-08142025

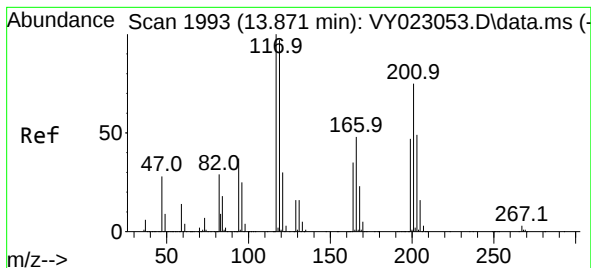
Tgt Ion:	119	Resp:	92798
Ion Ratio	Lower	Upper	
119	100		
134	25.3	13.2	39.6
91	20.5	11.3	33.8



#89
n-Butylbenzene
Concen: 3.567 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VY023116.D
Acq: 15 Aug 2025 11:07

Tgt Ion:	91	Resp:	69347
Ion Ratio	Lower	Upper	
91	100		
92	68.7	26.9	80.7
134	0.0	13.2	39.5





#90

Hexachloroethane

Concen: 6.092 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.018 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

Instrument :

MSVOA_Y

ClientSampleId :

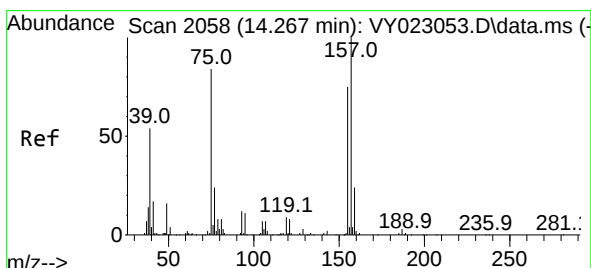
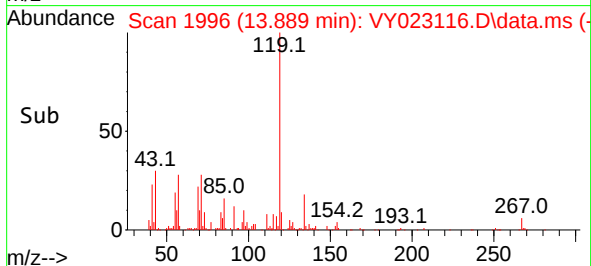
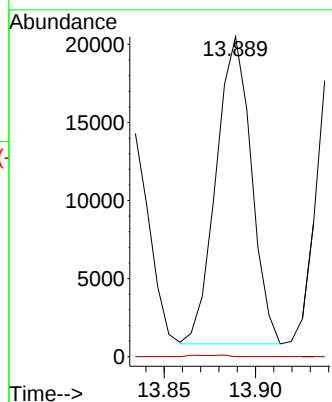
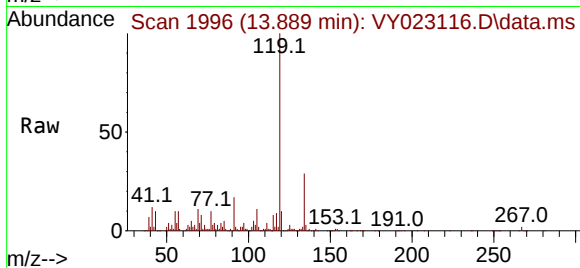
EO-02-08142025

Tgt Ion:117 Resp: 26399

Ion Ratio Lower Upper

117 100

201 0.5 38.4 115.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.937 ug/l

RT: 14.249 min Scan# 2055

Delta R.T. -0.018 min

Lab File: VY023116.D

Acq: 15 Aug 2025 11:07

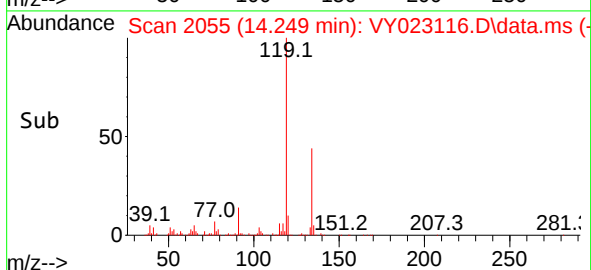
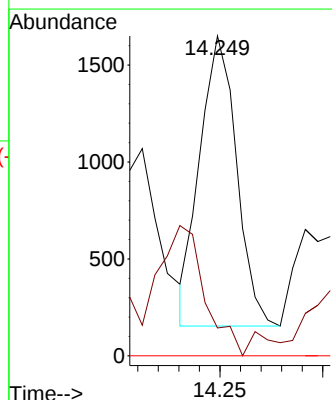
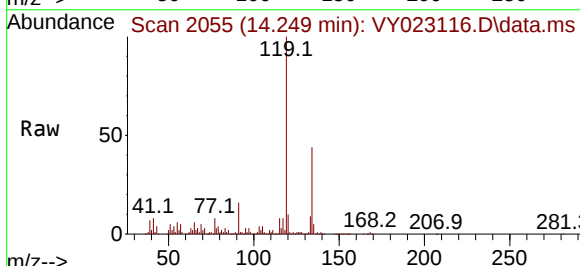
Tgt Ion: 75 Resp: 1857

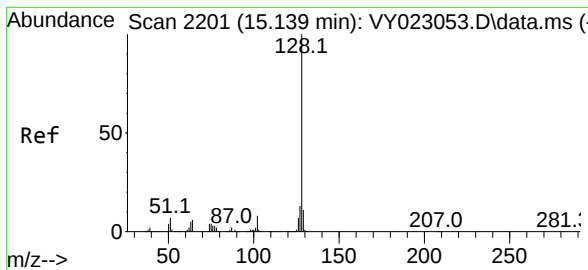
Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

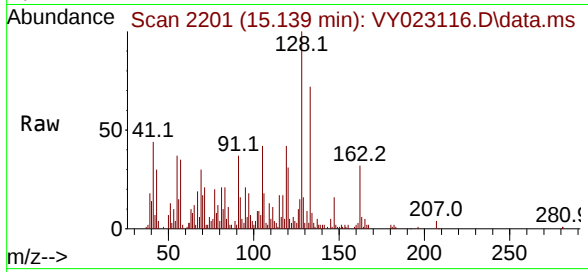
157 0.0 57.2 171.6#





#95
 Naphthalene
 Concen: 2.185 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023116.D
 Acq: 15 Aug 2025 11:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-02-08142025



Tgt Ion:	128	Resp:	21618
Ion	Ratio	Lower	Upper
128	100		
127	19.7	10.4	15.6#
129	19.0	9.0	13.4#

