

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052225\
 Data File : VY022401.D
 Acq On : 22 May 2025 17:16
 Operator : SY/MD
 Sample : Q2112-01
 Misc : 5.72g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-03-05222025

Quant Time: May 23 03:40:35 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	7.720	168	31870	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	49512	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	33671	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.353	152	10706	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	13674	39.258	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	78.520%
35) Dibromofluoromethane	7.640	113	13460	45.547	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	91.100%
50) Toluene-d8	10.115	98	55485	45.844	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.680%
62) 4-Bromofluorobenzene	12.408	95	11691	30.475	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	60.940%

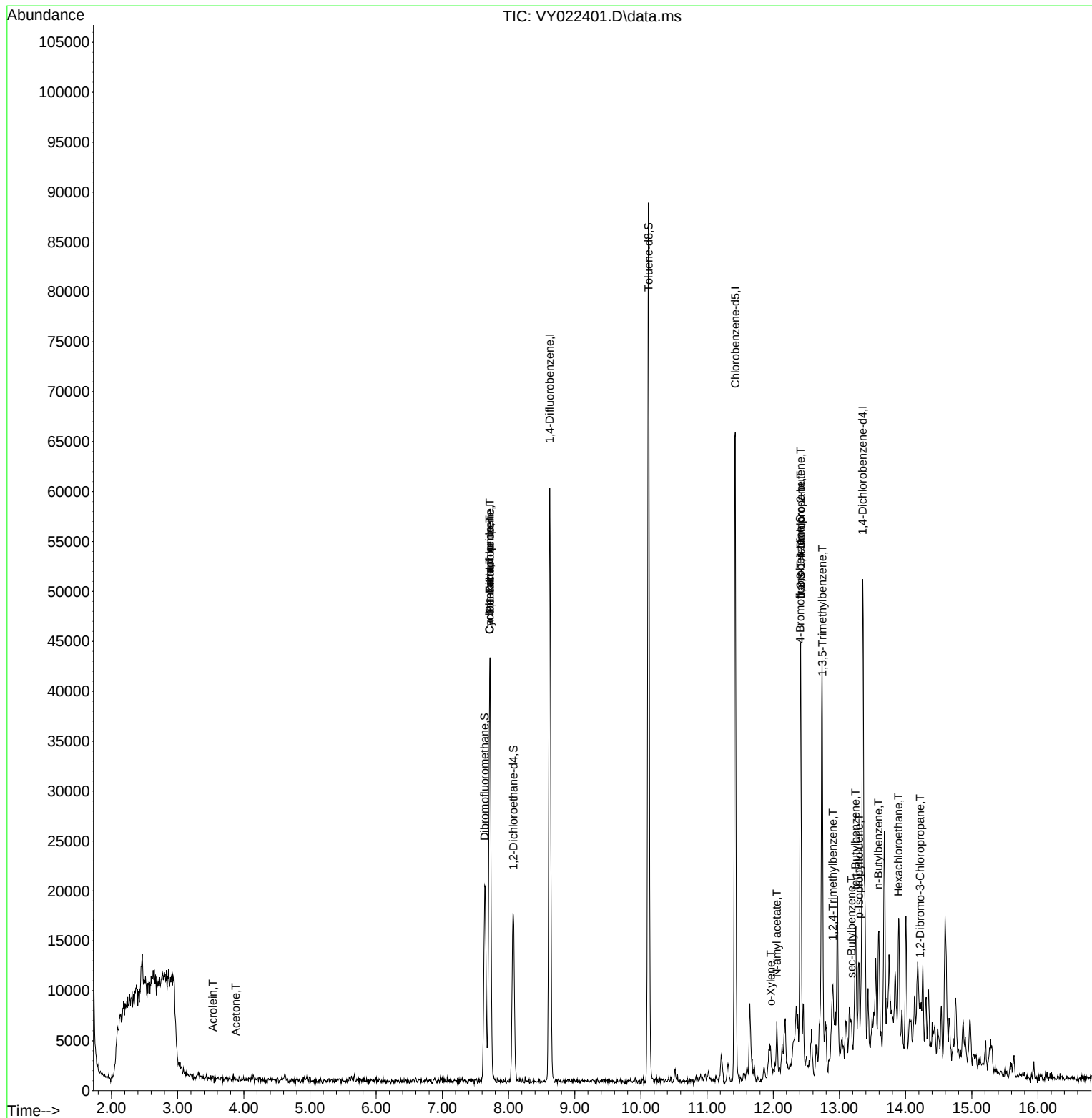
Target Compounds			Qvalue			
13) Acrolein	3.531	56	42	1.080	ug/l #	82
16) Acetone	3.879	43	184	2.817	ug/l #	45
31) Cyclohexane	7.713	56	1057	1.500	ug/l #	50
36) 1,1-Dichloropropene	7.720	75	2574	5.288	ug/l #	51
38) Carbon Tetrachloride	7.713	117	3376	6.700	ug/l #	13
69) o-Xylene	11.963	106	606	1.195	ug/l	99
74) N-amyl acetate	12.054	43	988	3.895	ug/l #	63
76) 1,2,3-Trichloropropane	12.414	75	6825	62.925	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.743	105	4513	6.303	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.414	75	6825	127.469	ug/l #	12
83) tert-Butylbenzene	13.243	119	2334	3.668	ug/l #	68
84) 1,2,4-Trimethylbenzene	12.902	105	4051	5.700	ug/l	85
85) sec-Butylbenzene	13.182	105	1194	1.264	ug/l	95
86) p-Isopropyltoluene	13.298	119	1226	1.543	ug/l	87
89) n-Butylbenzene	13.590	91	927	1.233	ug/l #	1
90) Hexachloroethane	13.889	117	568	3.542	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.218	75	55	2.501	ug/l #	1

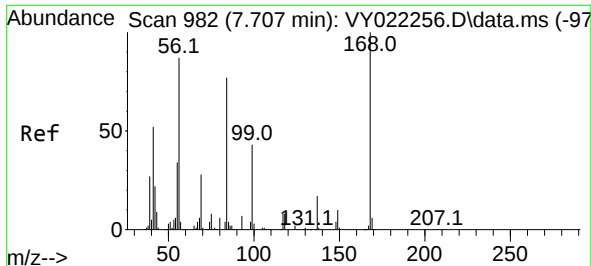
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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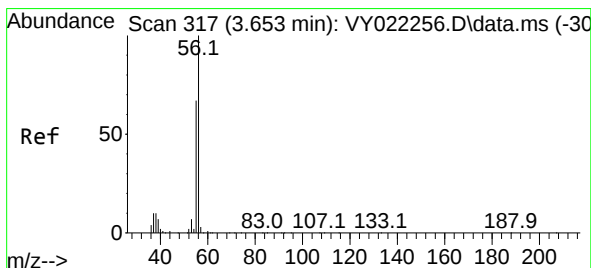
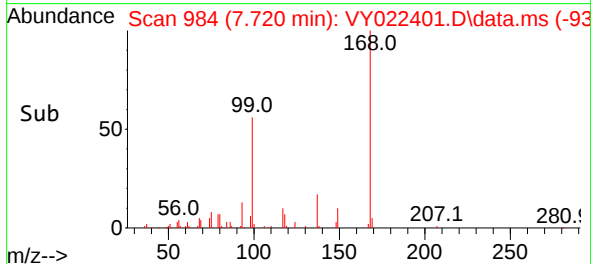
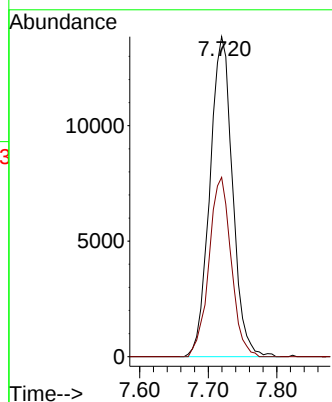
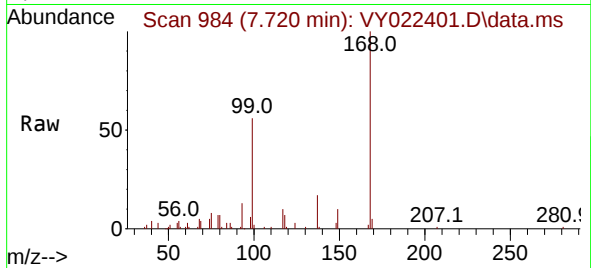




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

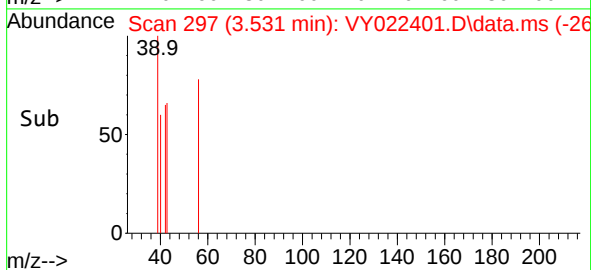
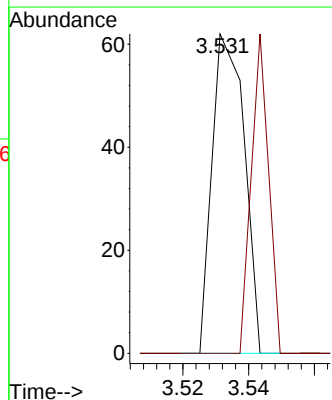
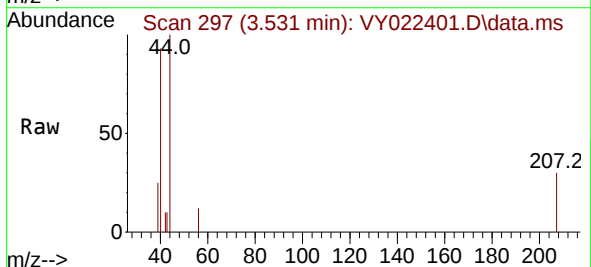
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

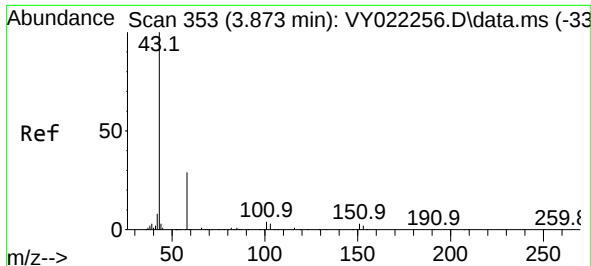
Tgt Ion:168 Resp: 31870
Ion Ratio Lower Upper
168 100
99 56.1 44.2 66.4



#13
Acrolein
Concen: 1.080 ug/l
RT: 3.531 min Scan# 297
Delta R.T. -0.122 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 54.8 55.6 83.4#

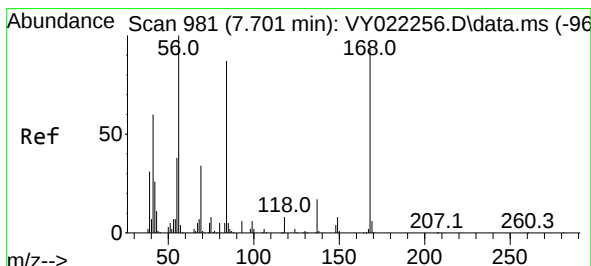
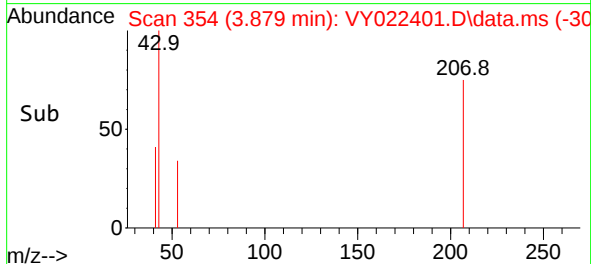
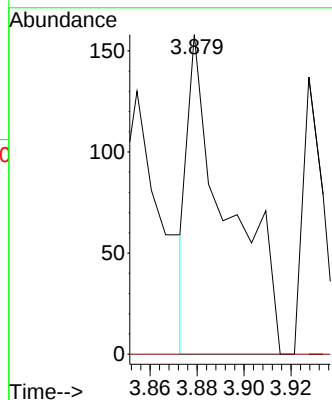
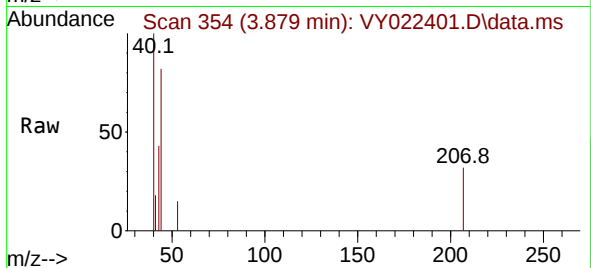




#16
Acetone
Concen: 2.817 ug/l
RT: 3.879 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

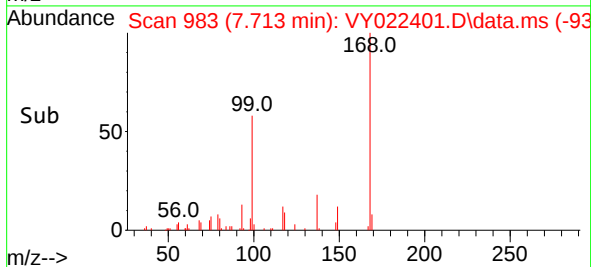
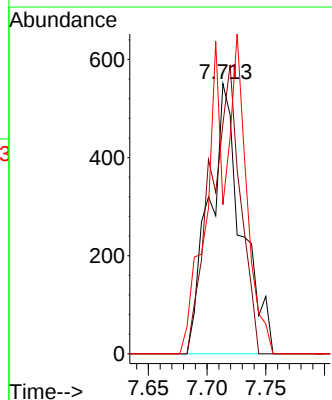
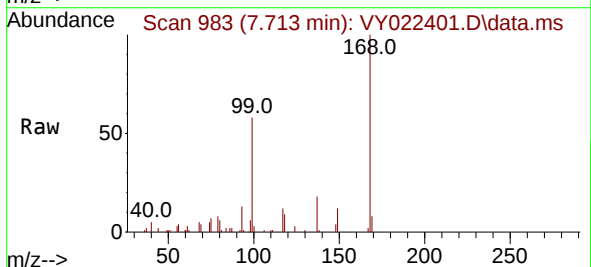
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

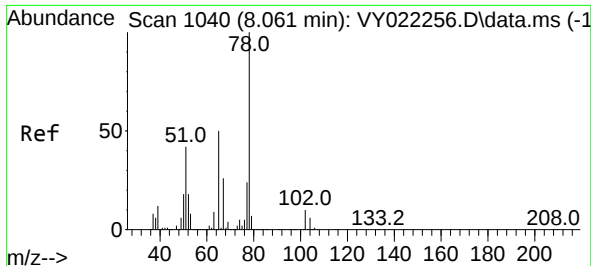
Tgt Ion: 43 Resp: 184
Ion Ratio Lower Upper
43 100
58 0.0 23.6 35.4#



#31
Cyclohexane
Concen: 1.500 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 56 Resp: 1057
Ion Ratio Lower Upper
56 100
69 85.1 27.4 41.2#
84 55.2 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 39.258 ug/l

RT: 8.073 min Scan# 110

Delta R.T. 0.012 min

Lab File: VY022401.D

Acq: 22 May 2025 17:16

Instrument :

MSVOA_Y

ClientSampleId :

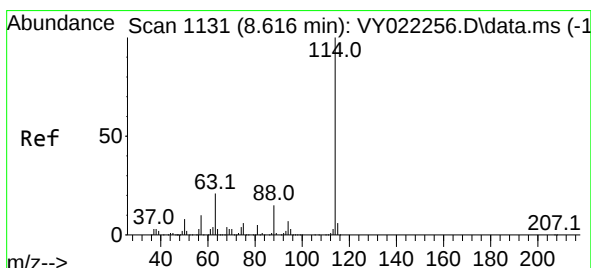
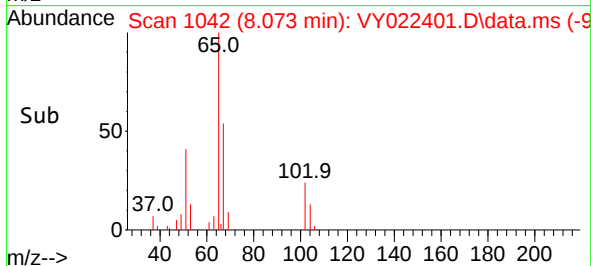
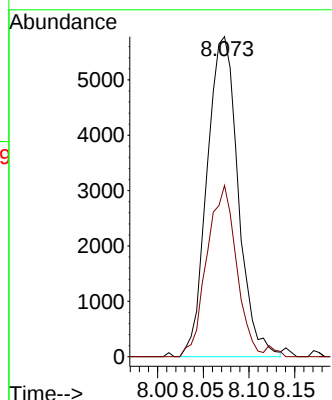
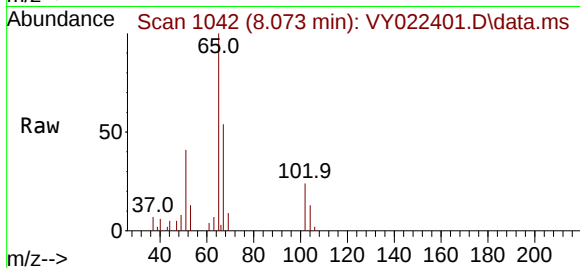
EO-03-05222025

Tgt Ion: 65 Resp: 13674

Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022401.D

Acq: 22 May 2025 17:16

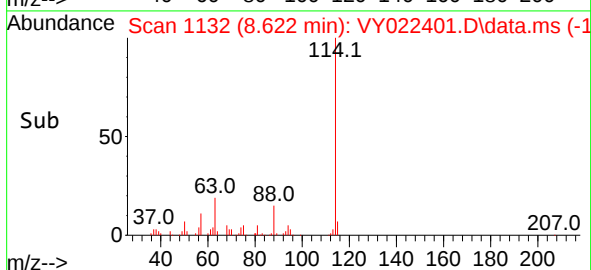
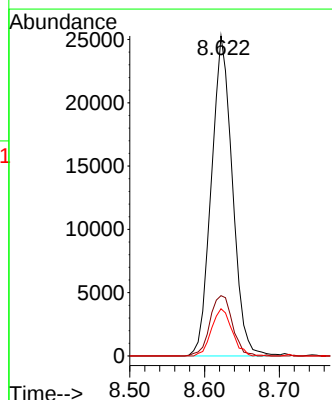
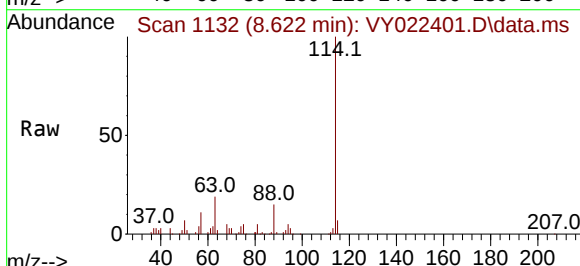
Tgt Ion: 114 Resp: 49512

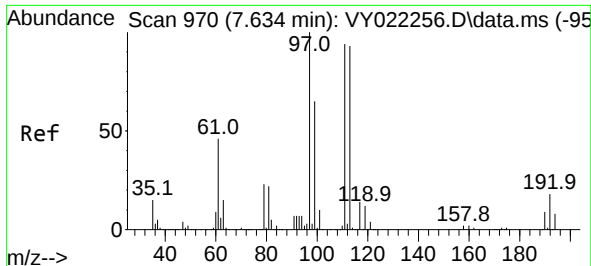
Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.0

88 14.7 0.0 29.4

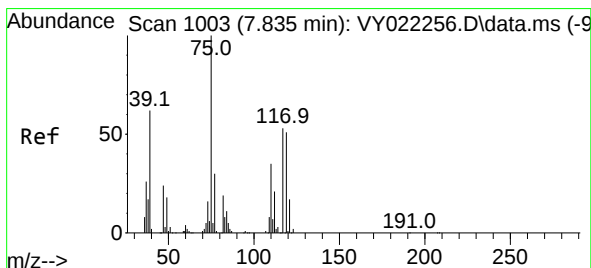
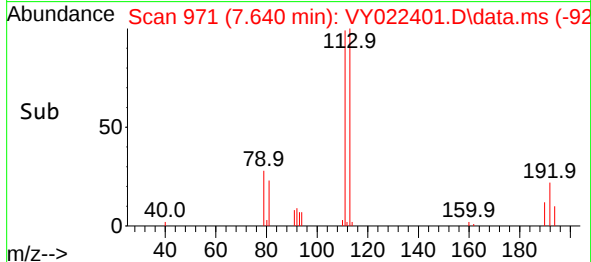
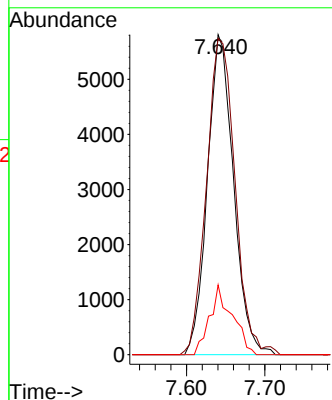
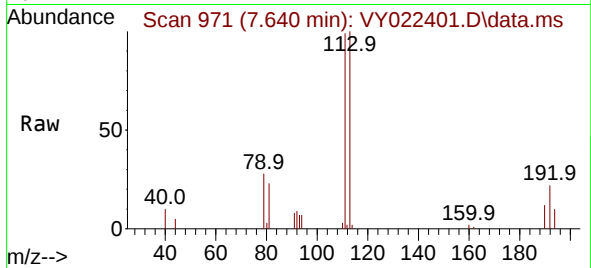




#35
Dibromofluoromethane
Concen: 45.547 ug/l
RT: 7.640 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

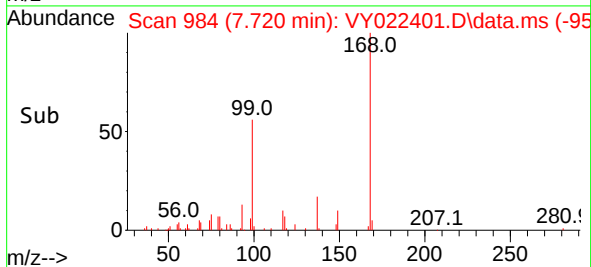
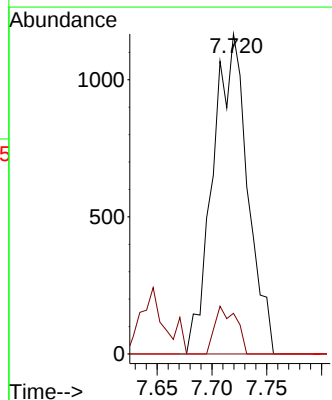
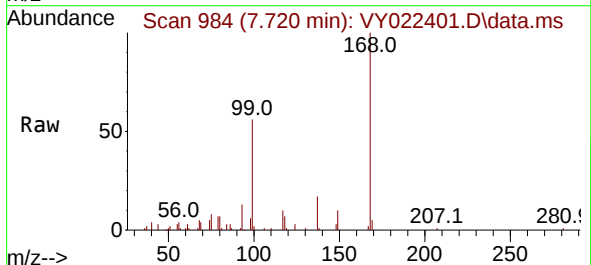
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

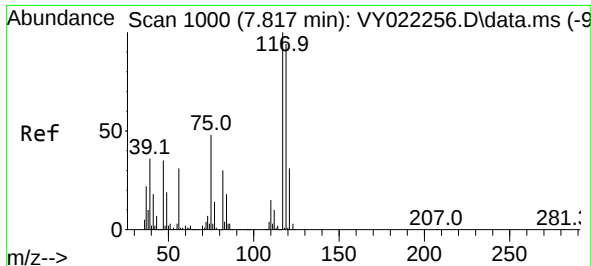
Tgt Ion:113 Resp: 13460
Ion Ratio Lower Upper
113 100
111 108.0 82.6 123.8
192 18.8 15.2 22.8



#36
1,1-Dichloropropene
Concen: 5.288 ug/l
RT: 7.720 min Scan# 984
Delta R.T. -0.116 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 75 Resp: 2574
Ion Ratio Lower Upper
75 100
110 9.2 16.6 49.8#
77 0.0 24.6 37.0#

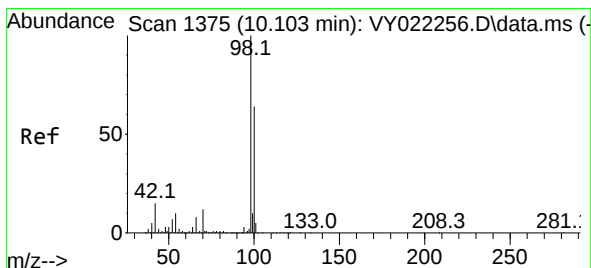
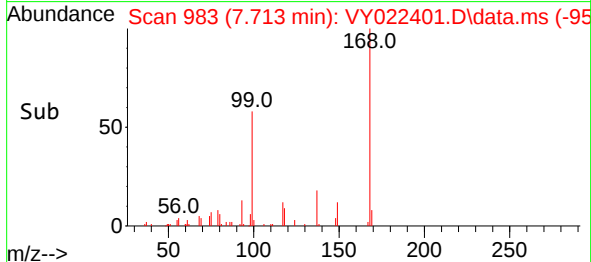
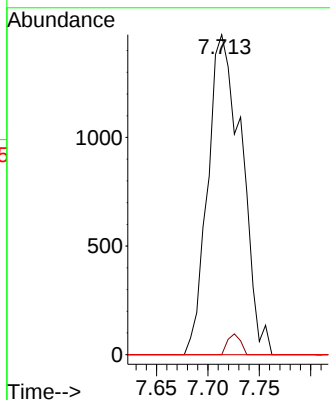
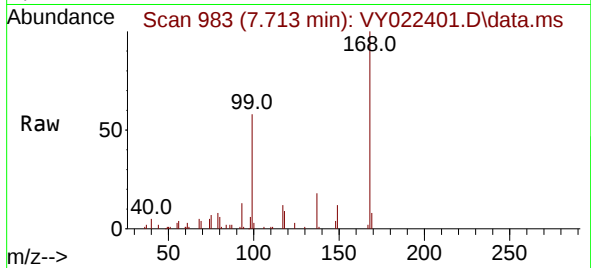




#38
Carbon Tetrachloride
Concen: 6.700 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

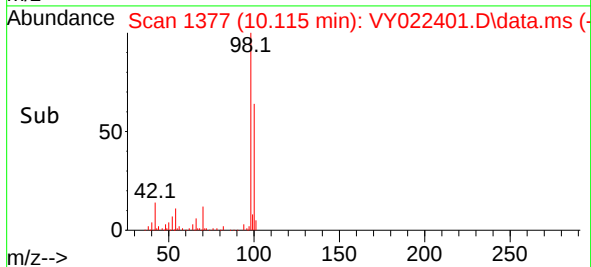
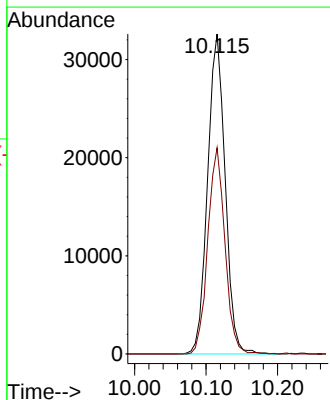
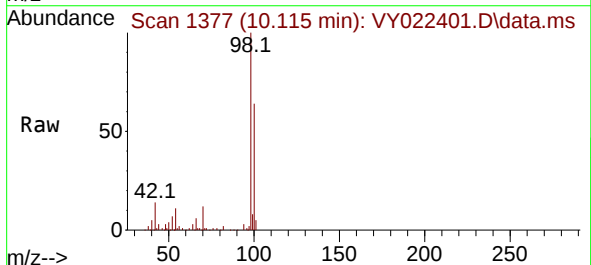
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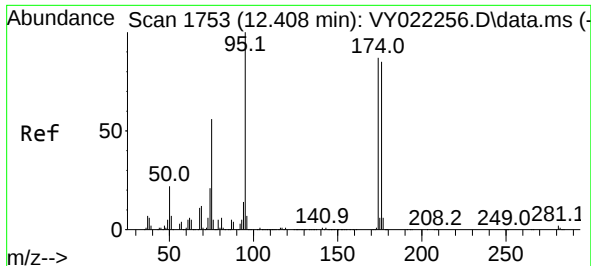
Tgt Ion:117 Resp: 3376
Ion Ratio Lower Upper
117 100
119 0.0 75.3 112.9#
121 0.0 24.7 37.1#



#50
Toluene-d8
Concen: 45.844 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 98 Resp: 55485
Ion Ratio Lower Upper
98 100
100 63.1 51.8 77.8

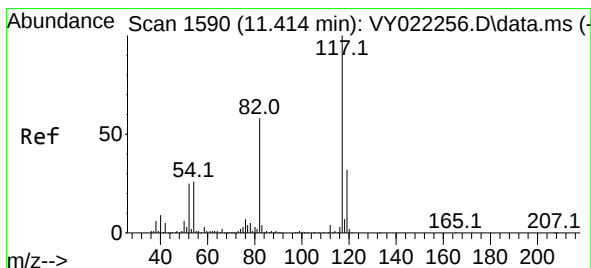
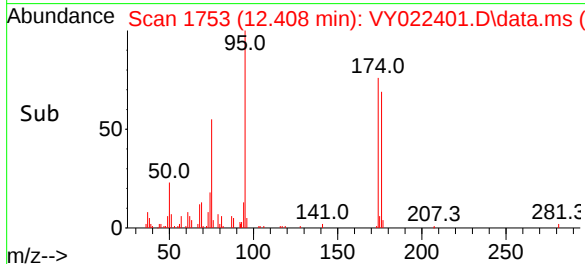
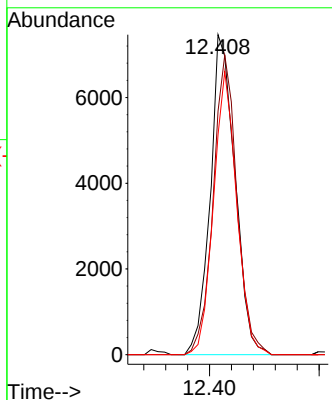
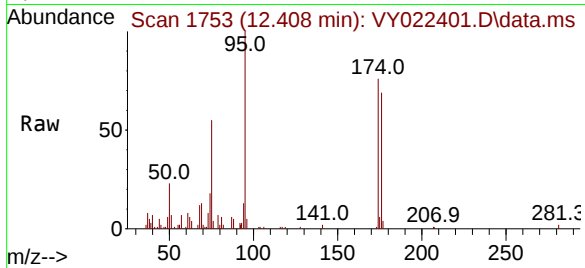




#62
4-Bromofluorobenzene
Concen: 30.475 ug/l
RT: 12.408 min Scan# 11691
Delta R.T. 0.000 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

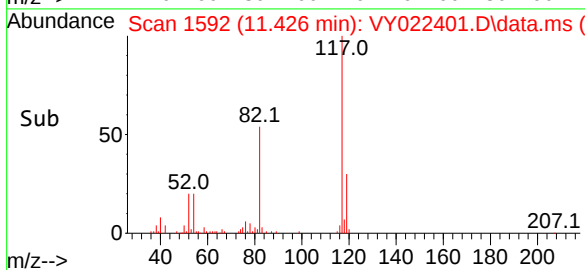
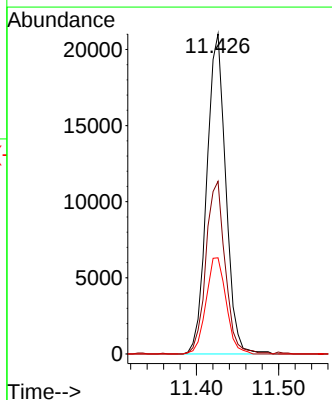
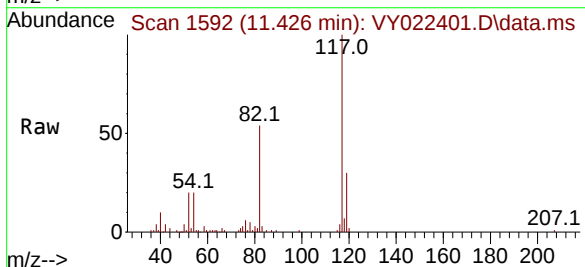
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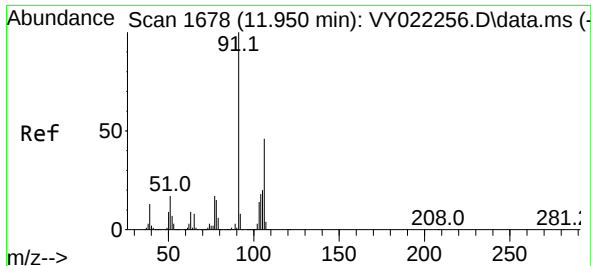
Tgt Ion:	95	Resp:	11691
Ion Ratio	Lower	Upper	
95	100		
174	90.1	0.0	166.8
176	83.1	0.0	160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion:	117	Resp:	33671
Ion Ratio	Lower	Upper	
117	100		
82	54.0	46.6	70.0
119	30.0	25.8	38.6

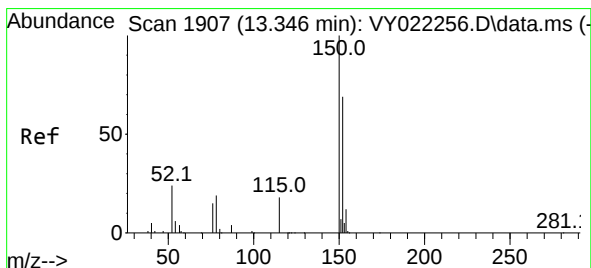
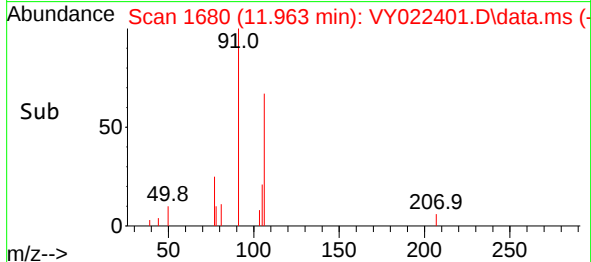
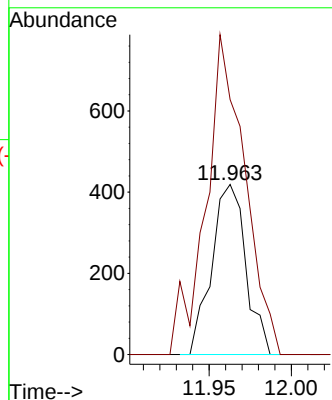
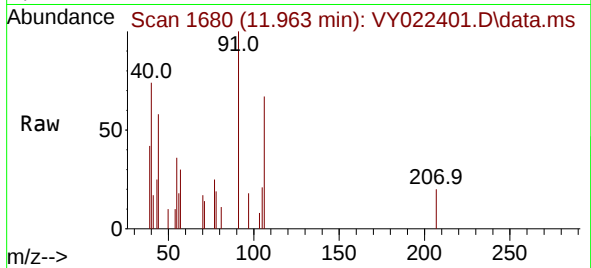




#69
o-Xylene
Concen: 1.195 ug/l
RT: 11.963 min Scan# 1196
Delta R.T. 0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

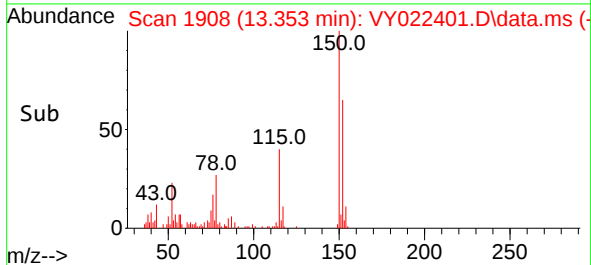
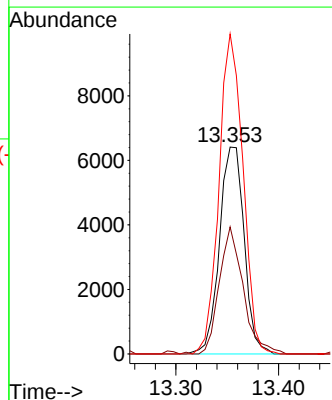
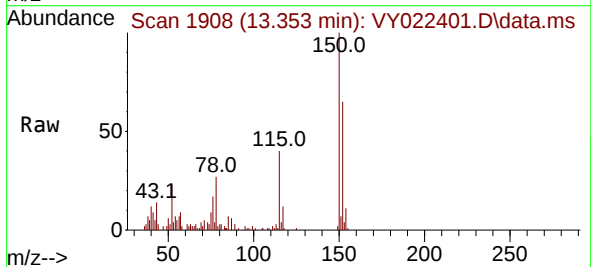
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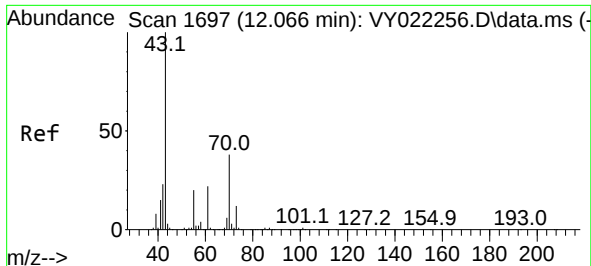
Tgt Ion:106 Resp: 606
Ion Ratio Lower Upper
106 100
91 214.5 108.3 324.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion:152 Resp: 10706
Ion Ratio Lower Upper
152 100
115 59.3 29.4 88.2
150 150.0 0.0 353.8

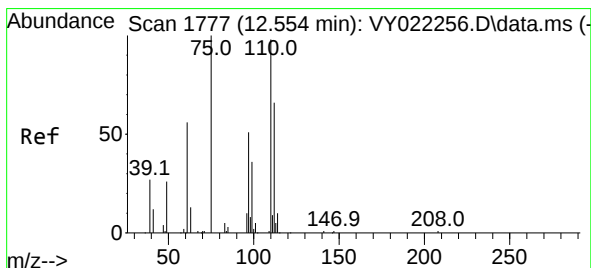
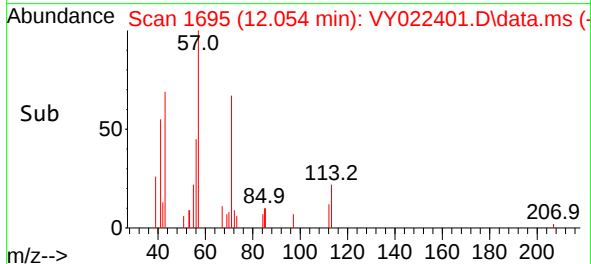
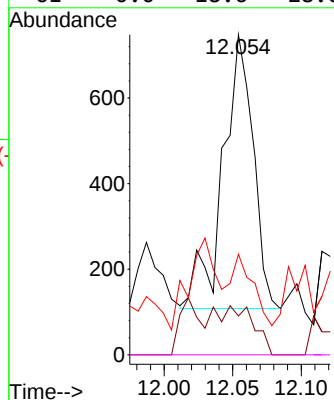
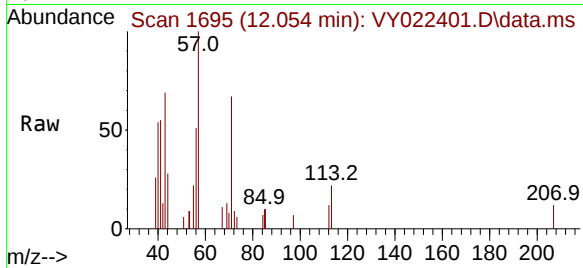




#74
N-amy1 acetate
Concen: 3.895 ug/l
RT: 12.054 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

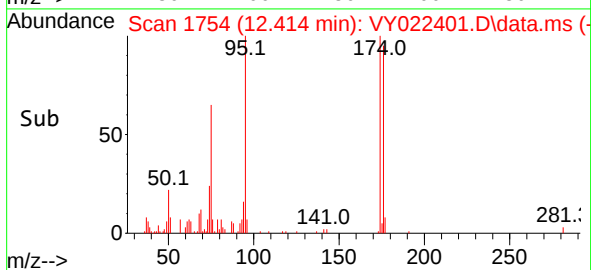
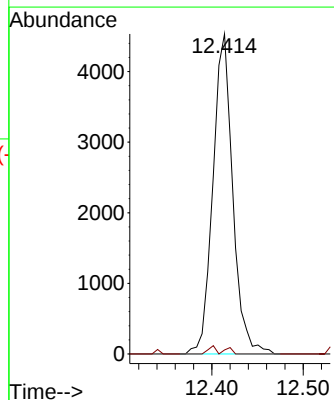
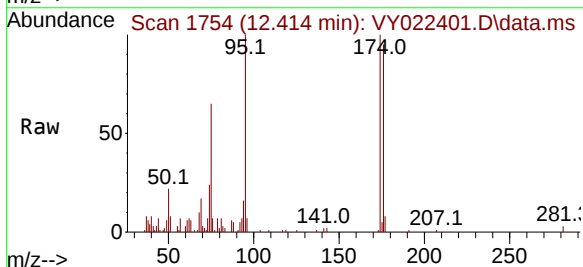
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

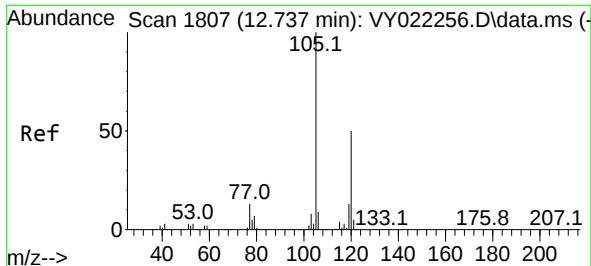
Tgt Ion:	43	Resp:	988
Ion	Ratio	Lower	Upper
43	100		
70	22.9	31.4	47.0#
55	0.0	17.0	25.6#
61	0.0	18.6	28.0#



#76
1,2,3-Trichloropropane
Concen: 62.925 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.140 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion:	75	Resp:	6825
Ion	Ratio	Lower	Upper
75	100		
77	0.9	0.0	0.0#

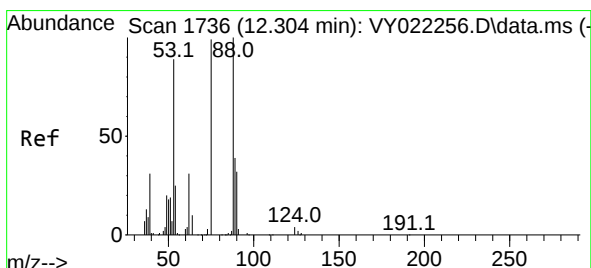
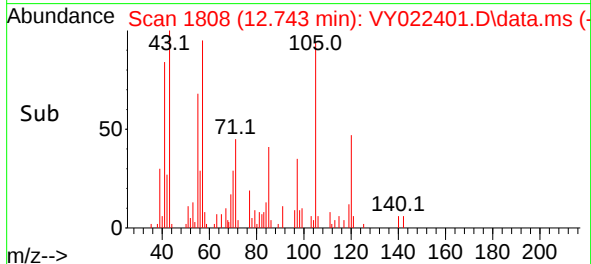
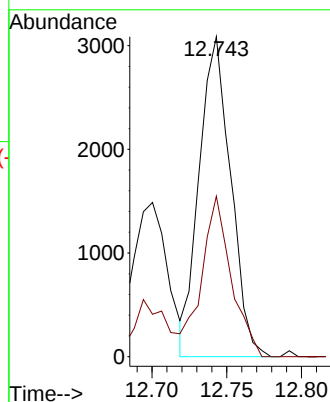
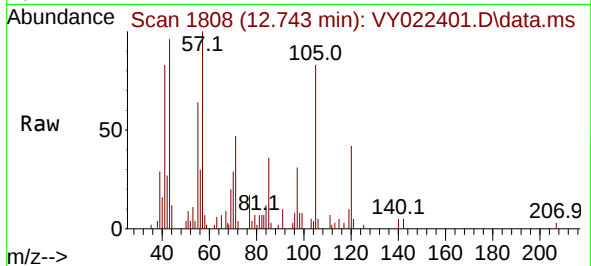




#80
1,3,5-Trimethylbenzene
Concen: 6.303 ug/l
RT: 12.743 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

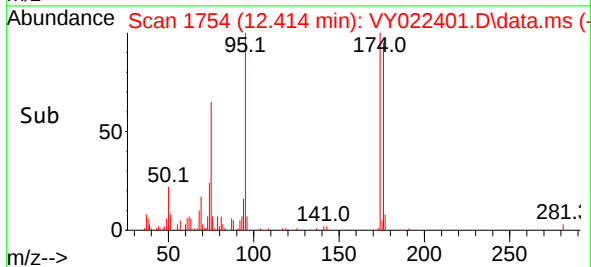
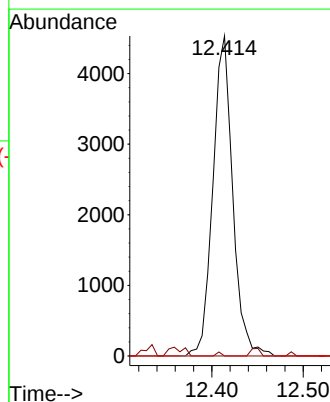
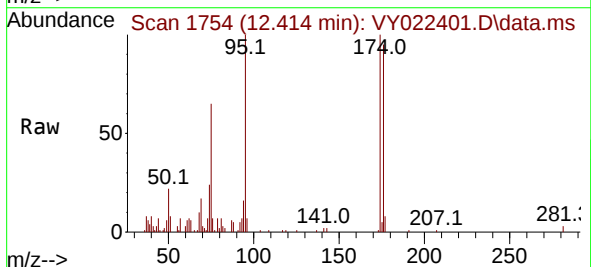
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

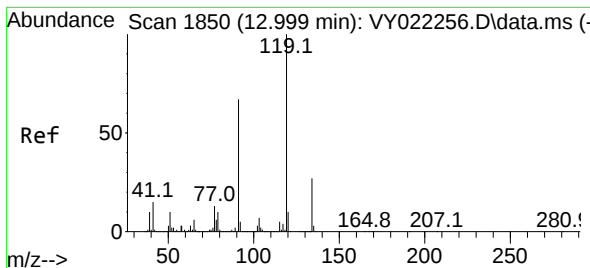
Tgt Ion:105 Resp: 4513
Ion Ratio Lower Upper
105 100
120 46.7 24.2 72.6



#81
trans-1,4-Dichloro-2-butene
Concen: 127.469 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.110 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 75 Resp: 6825
Ion Ratio Lower Upper
75 100
53 0.3 75.8 113.8#
89 0.0 36.2 54.2#





#83

tert-Butylbenzene

Concen: 3.668 ug/l

RT: 13.243 min Scan# 119

Delta R.T. 0.244 min

Lab File: VY022401.D

Acq: 22 May 2025 17:16

Instrument :

MSVOA_Y

ClientSampleId :

EO-03-05222025

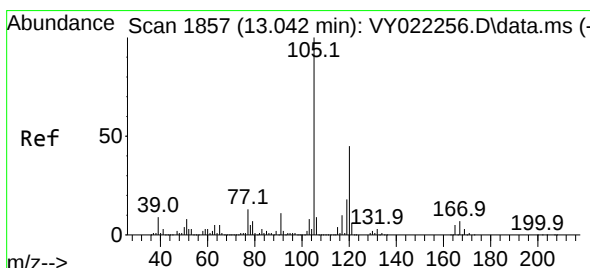
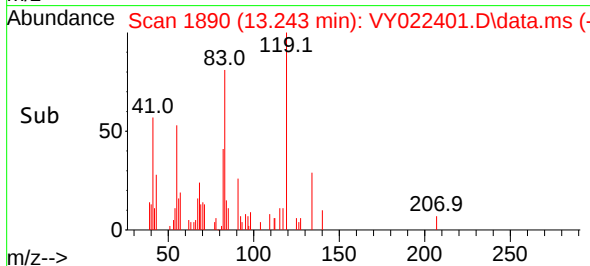
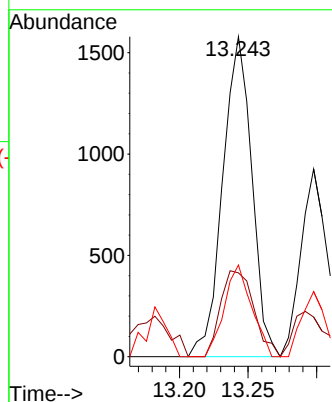
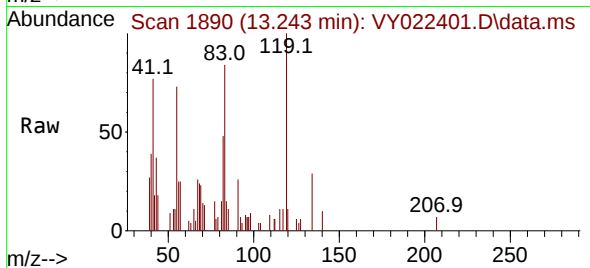
Tgt Ion:119 Resp: 2334

Ion Ratio Lower Upper

119 100

91 30.7 32.8 98.3#

134 26.8 12.9 38.6



#84

1,2,4-Trimethylbenzene

Concen: 5.700 ug/l

RT: 12.902 min Scan# 1834

Delta R.T. -0.140 min

Lab File: VY022401.D

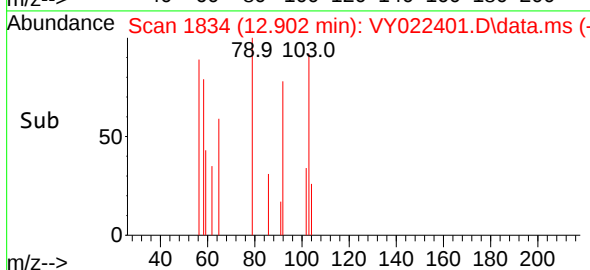
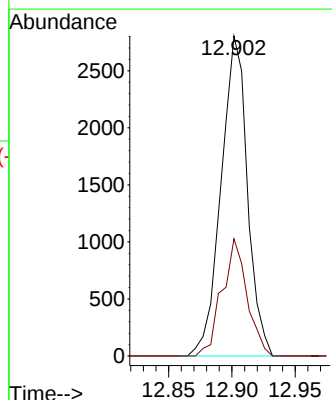
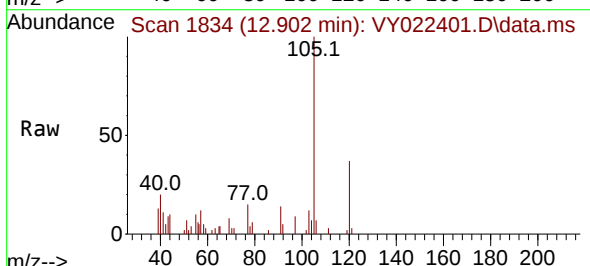
Acq: 22 May 2025 17:16

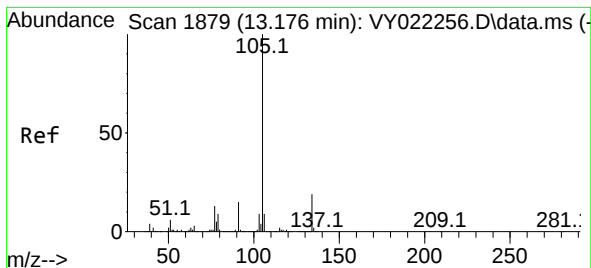
Tgt Ion:105 Resp: 4051

Ion Ratio Lower Upper

105 100

120 34.8 22.3 66.9





#85

sec-Butylbenzene

Concen: 1.264 ug/l

RT: 13.182 min Scan# 1880

Delta R.T. 0.006 min

Lab File: VY022401.D

Acq: 22 May 2025 17:16

Instrument :

MSVOA_Y

ClientSampleId :

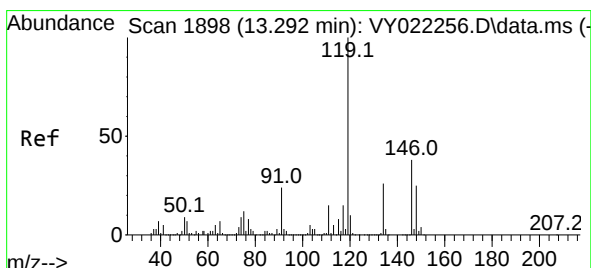
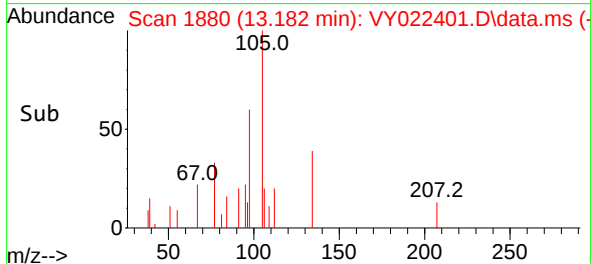
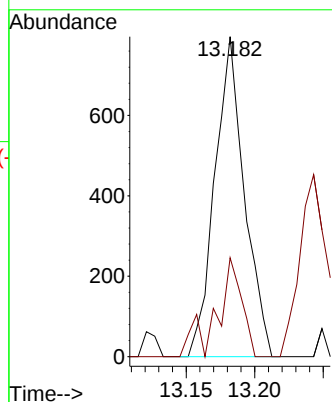
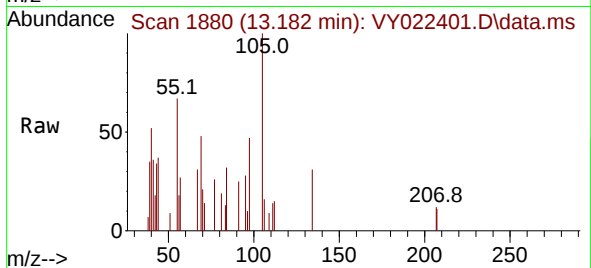
EO-03-05222025

Tgt Ion:105 Resp: 1194

Ion Ratio Lower Upper

105 100

134 21.8 9.8 29.5



#86

p-Isopropyltoluene

Concen: 1.543 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.006 min

Lab File: VY022401.D

Acq: 22 May 2025 17:16

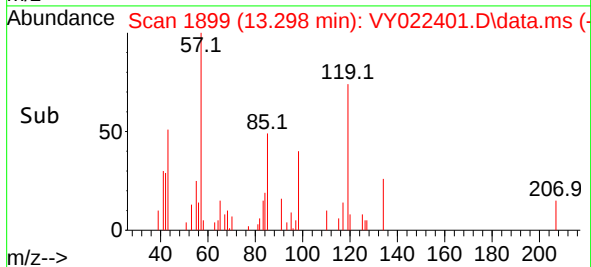
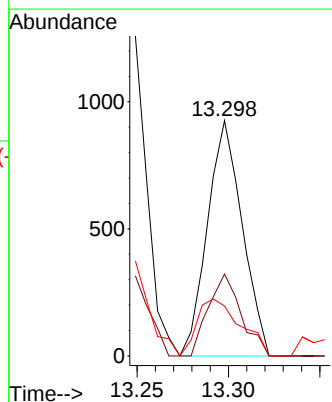
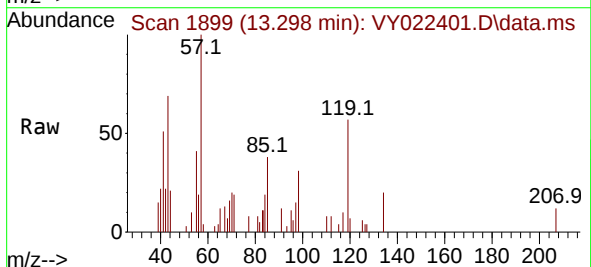
Tgt Ion:119 Resp: 1226

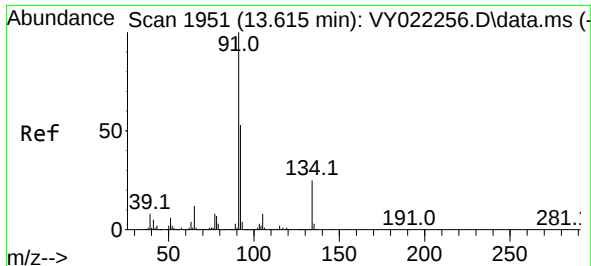
Ion Ratio Lower Upper

119 100

134 32.8 12.9 38.6

91 30.0 12.1 36.3

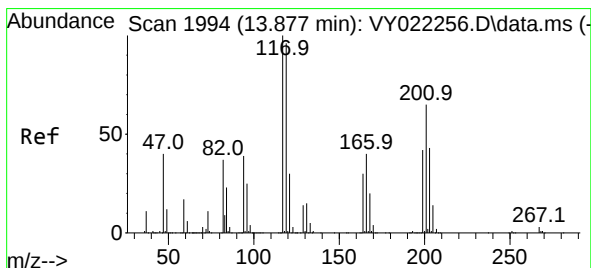
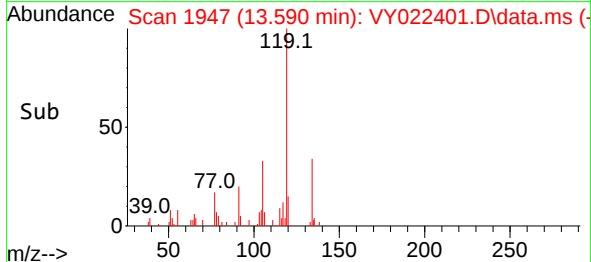
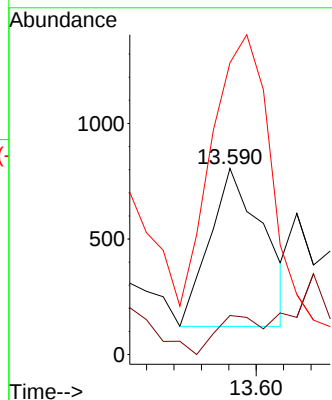
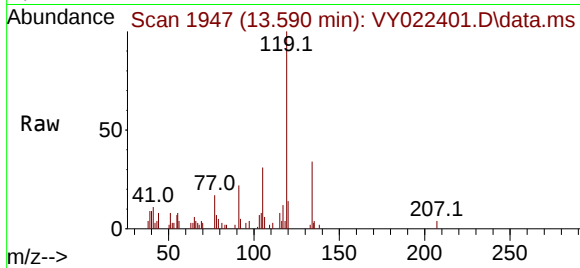




#89
n-Butylbenzene
Concen: 1.233 ug/l
RT: 13.590 min Scan# 1947
Delta R.T. -0.024 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

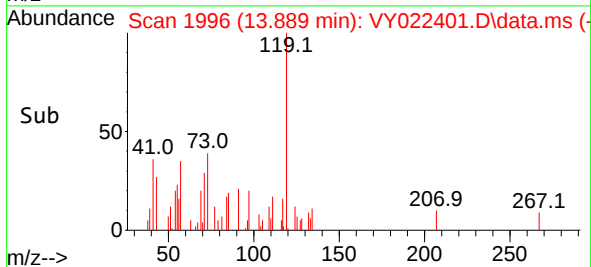
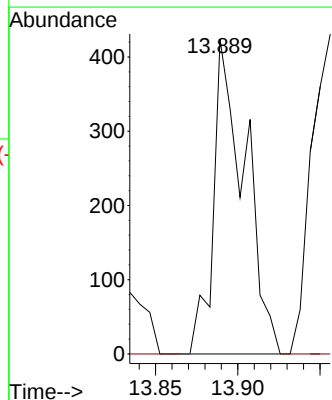
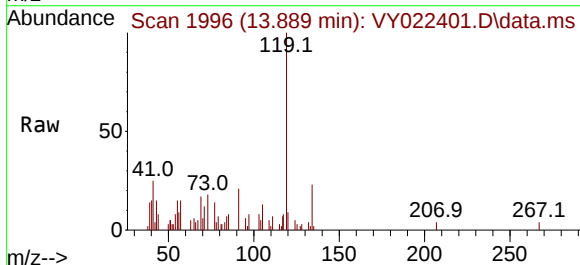
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

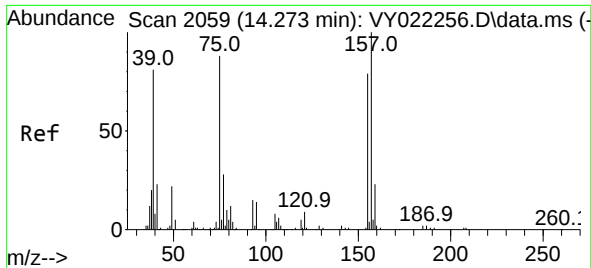
Tgt Ion: 91 Resp: 927
Ion Ratio Lower Upper
91 100
92 21.0 26.3 78.9#
134 251.1 12.4 37.4#



#90
Hexachloroethane
Concen: 3.542 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.012 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Tgt Ion: 117 Resp: 568
Ion Ratio Lower Upper
117 100
201 0.0 35.2 105.6#





#92
1,2-Dibromo-3-Chloropropane
Concen: 2.501 ug/l
RT: 14.218 min Scan# 2050
Delta R.T. -0.055 min
Lab File: VY022401.D
Acq: 22 May 2025 17:16

Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.4	130.1#
157	0.0	54.6	163.9#

