

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087227.D
 Acq On : 27 Jun 2025 17:00
 Operator : JC\MD
 Sample : Q2366-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250528063-02-VOA

Quant Time: Jun 27 23:47:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

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

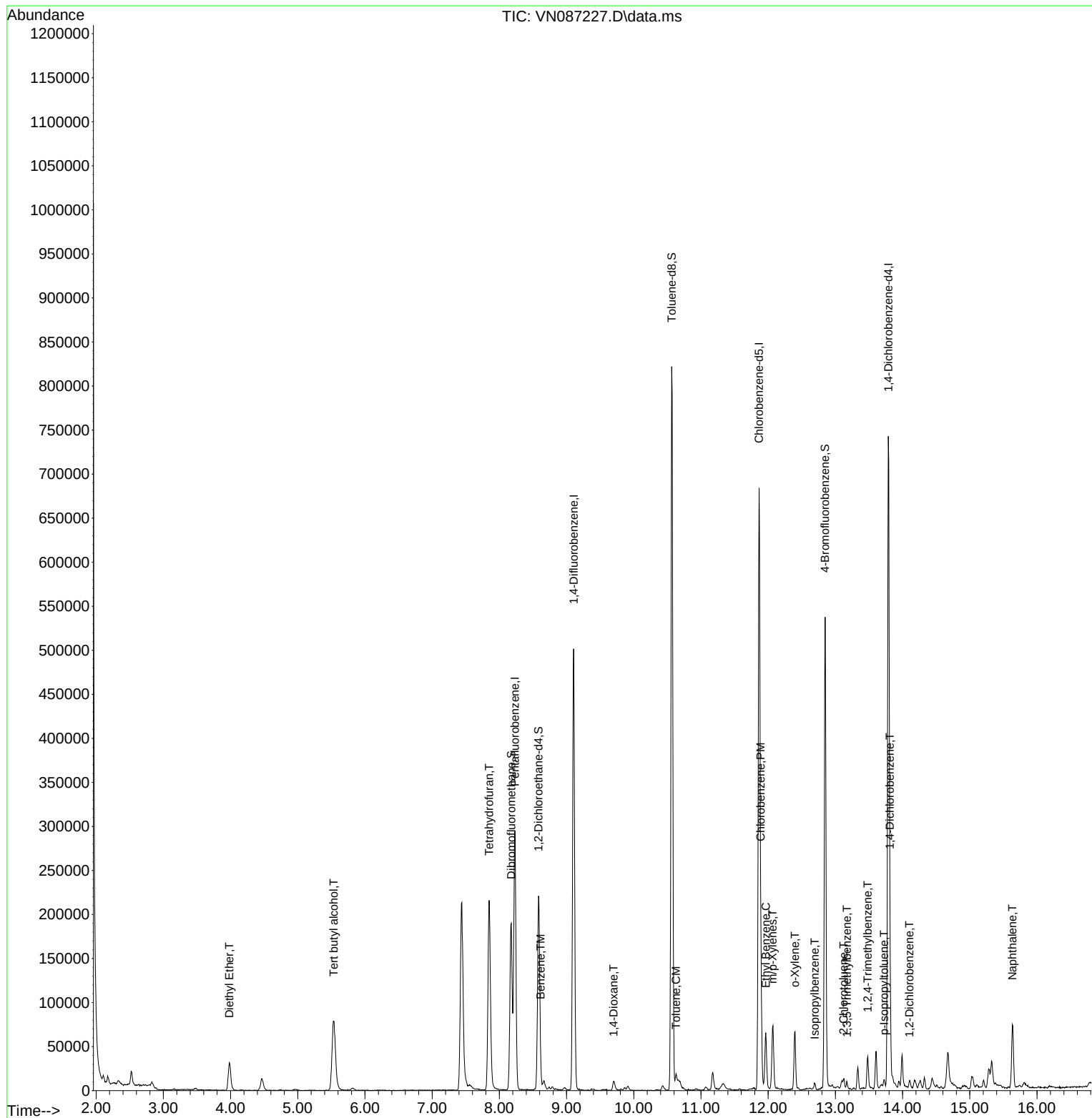
Internal Standards						
1) Pentafluorobenzene	8.230	168	223396	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	449735	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	404692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	201312	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	182551	56.783	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.560%
35) Dibromofluoromethane	8.177	113	145707	50.113	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.220%
50) Toluene-d8	10.565	98	587145	48.825	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.640%
62) 4-Bromofluorobenzene	12.847	95	206595	49.510	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.020%
Target Compounds						
						Qvalue
8) Diethyl Ether	3.983	74	18863	12.057	ug/l	95
11) Tert butyl alcohol	5.536	59	164809	232.666	ug/l	100
29) Tetrahydrofuran	7.847	42	163685	102.428	ug/l	95
40) Benzene	8.612	78	8982	0.683	ug/l	96
49) 1,4-Dioxane	9.700	88	9513	155.742	ug/l #	97
52) Toluene	10.629	92	6343	0.754	ug/l	98
65) Chlorobenzene	11.888	112	77053	8.584	ug/l	98
67) Ethyl Benzene	11.965	91	43116	2.880	ug/l	97
68) m/p-Xylenes	12.065	106	25206	4.400	ug/l	97
69) o-Xylene	12.400	106	18584	3.569	ug/l	93
73) Isopropylbenzene	12.694	105	4930	0.362	ug/l	96
79) 2-Chlorotoluene	13.123	91	7512	0.719	ug/l	89
80) 1,3,5-Trimethylbenzene	13.170	105	4383	0.390	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	21513	1.884	ug/l	97
86) p-Isopropyltoluene	13.723	119	5263	0.451	ug/l	90
88) 1,4-Dichlorobenzene	13.812	146	47130	6.878	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	2957	0.471	ug/l	99
95) Naphthalene	15.635	128	72078	5.437	ug/l	100

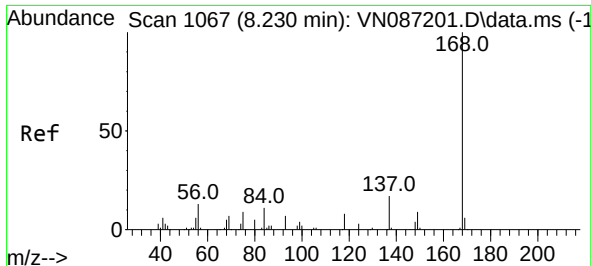
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
Data File : VN087227.D
Acq On : 27 Jun 2025 17:00
Operator : JC\MD
Sample : Q2366-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

Quant Time: Jun 27 23:47:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 27 05:55:21 2025
Response via : Initial Calibration

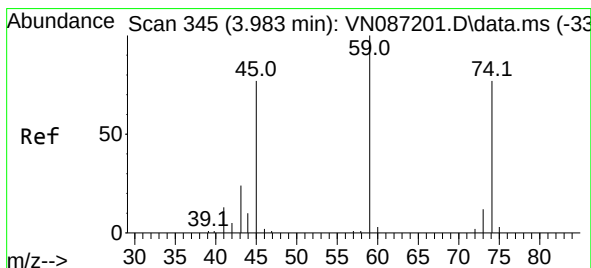
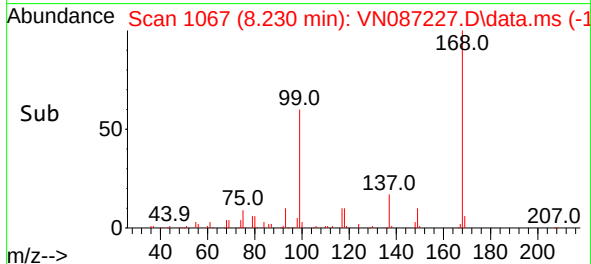
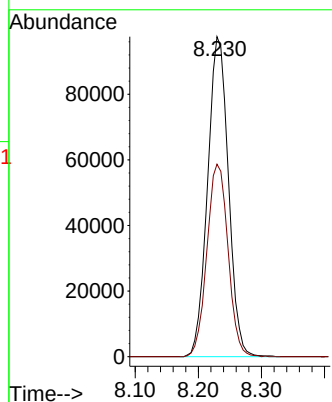
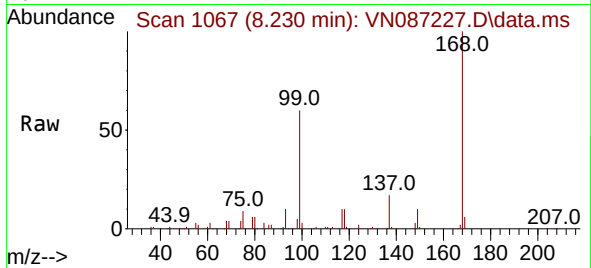




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

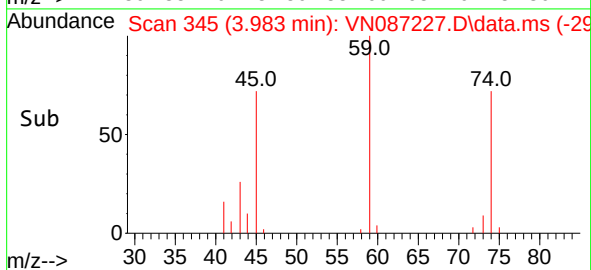
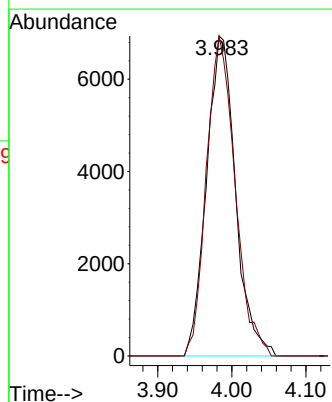
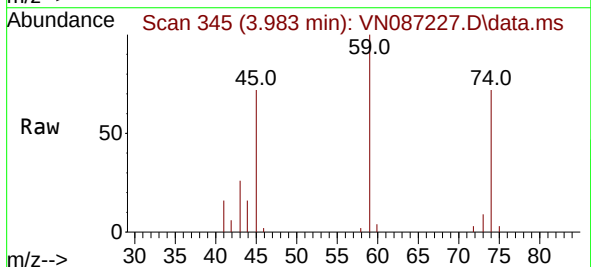
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

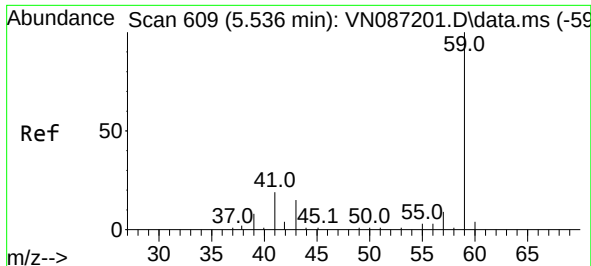
Tgt Ion:168 Resp: 223396
Ion Ratio Lower Upper
168 100
99 60.1 47.9 71.9



#8
Diethyl Ether
Concen: 12.057 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion: 74 Resp: 18863
Ion Ratio Lower Upper
74 100
45 98.7 47.0 141.2

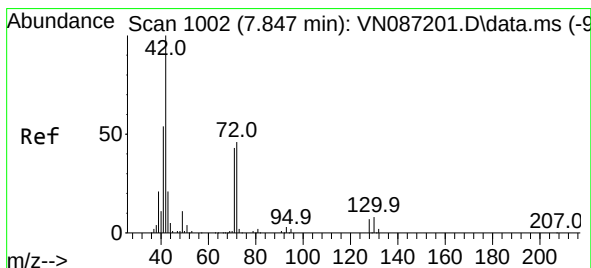
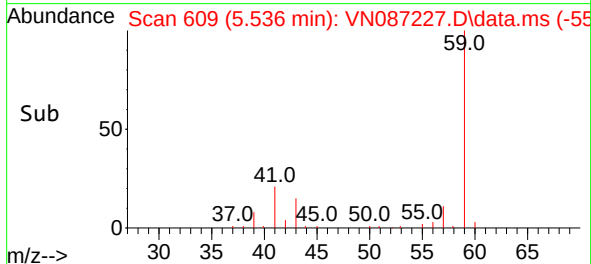
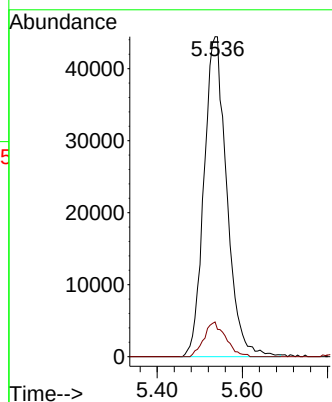
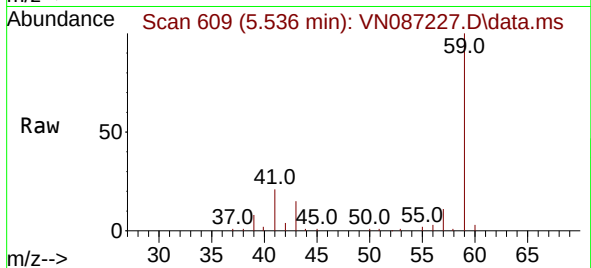




#11
Tert butyl alcohol
Concen: 232.666 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

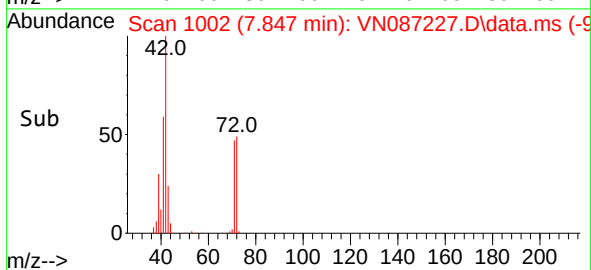
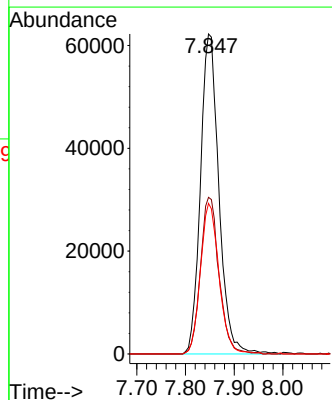
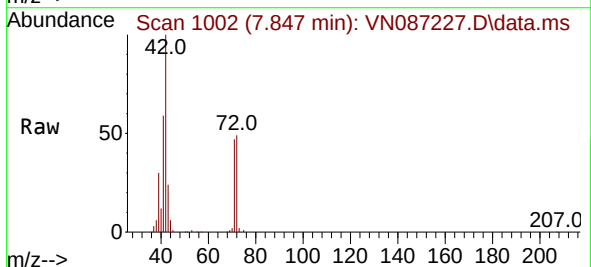
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

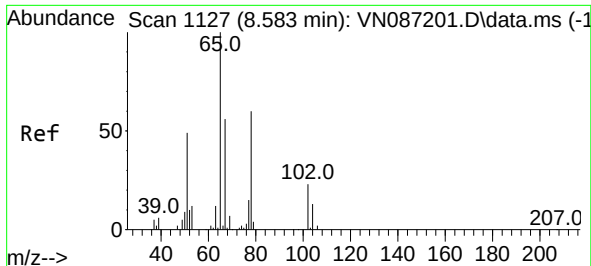
Tgt Ion: 59 Resp: 164809
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.2



#29
Tetrahydrofuran
Concen: 102.428 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion: 42 Resp: 163685
Ion Ratio Lower Upper
42 100
72 49.1 36.9 55.3
71 47.4 35.0 52.4





#33

1,2-Dichloroethane-d4

Concen: 56.783 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

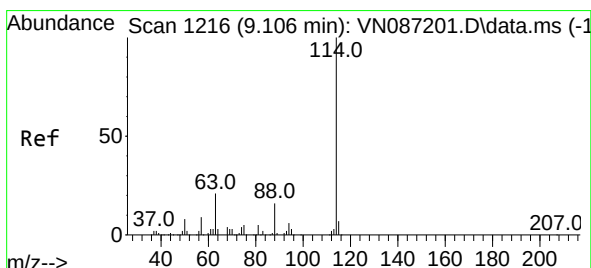
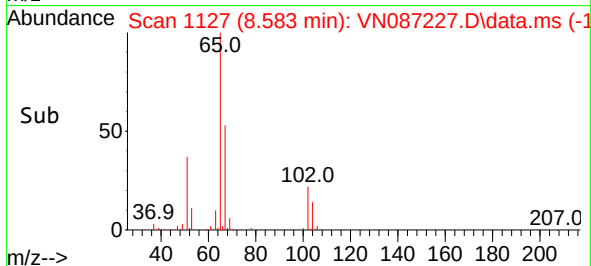
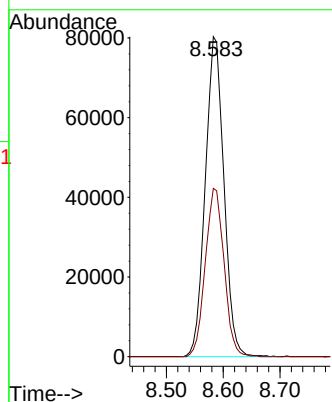
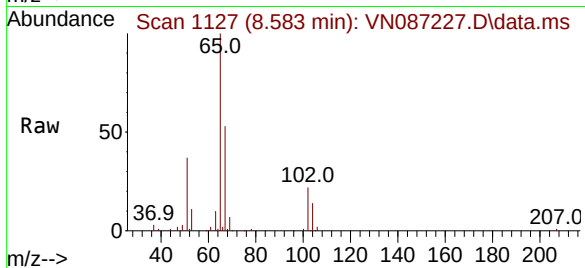
250528063-02-VOA

Tgt Ion: 65 Resp: 182551

Ion Ratio Lower Upper

65 100

67 53.1 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

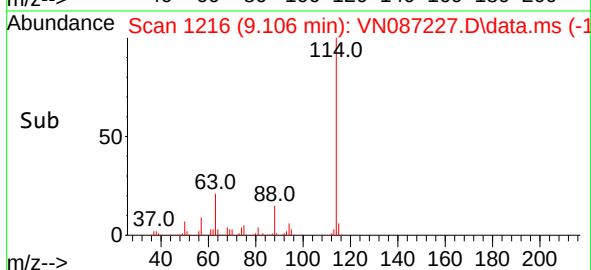
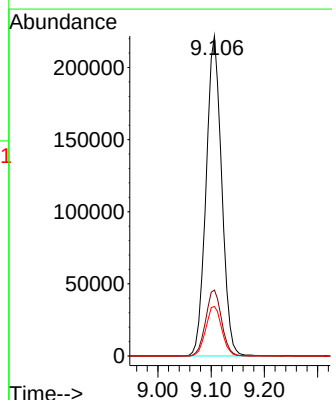
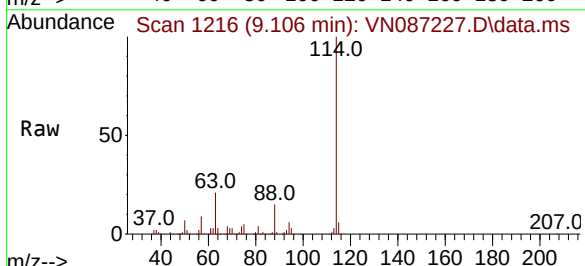
Tgt Ion: 114 Resp: 449735

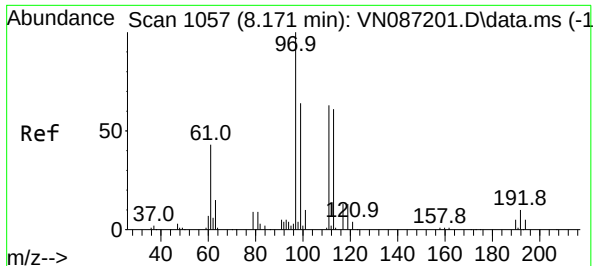
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.0

88 15.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 50.113 ug/l

RT: 8.177 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

250528063-02-VOA

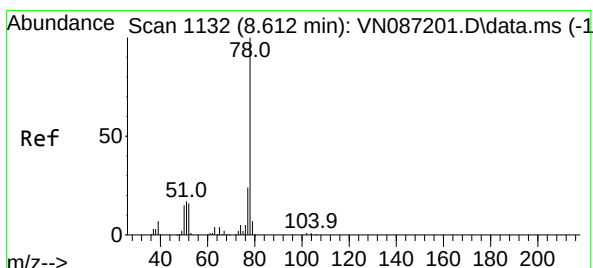
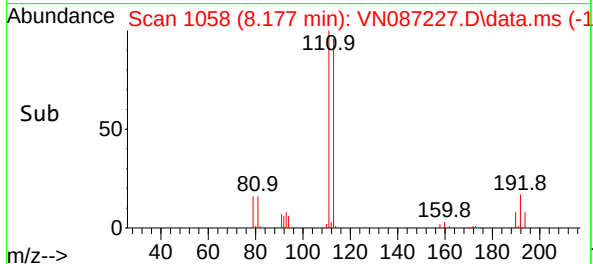
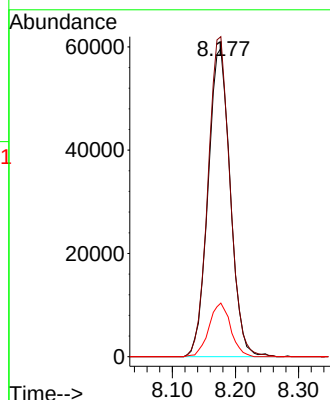
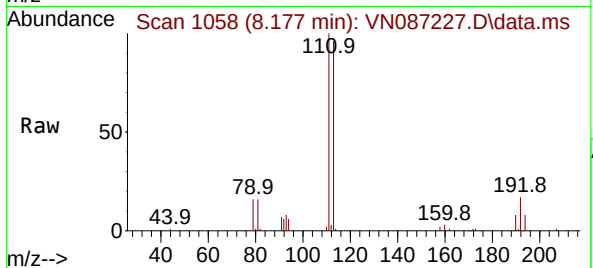
Tgt Ion:113 Resp: 145707

Ion Ratio Lower Upper

113 100

111 102.7 82.6 124.0

192 17.0 13.5 20.3



#40

Benzene

Concen: 0.683 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN087227.D

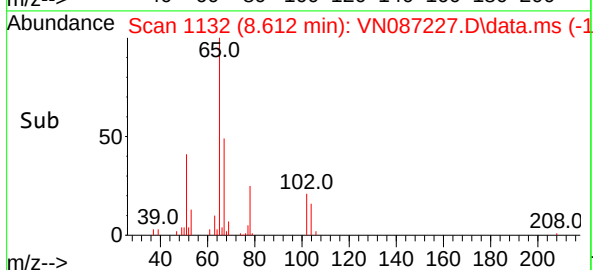
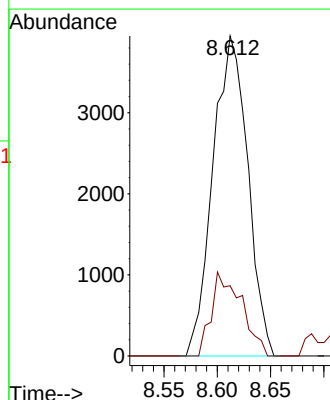
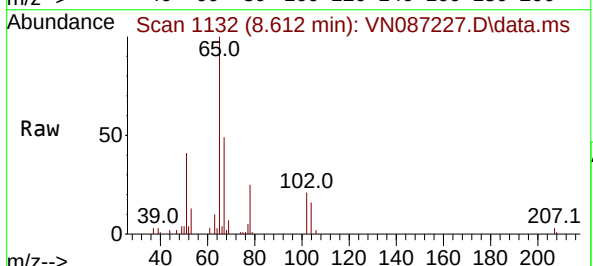
Acq: 27 Jun 2025 17:00

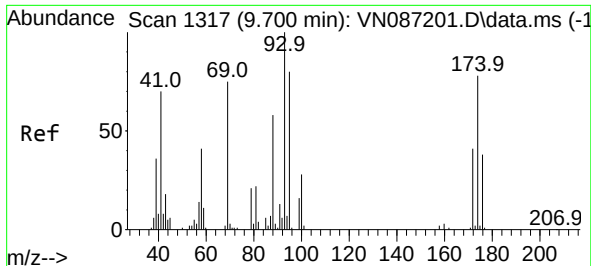
Tgt Ion: 78 Resp: 8982

Ion Ratio Lower Upper

78 100

77 22.0 19.0 28.6





#49

1,4-Dioxane

Concen: 155.742 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087227.D

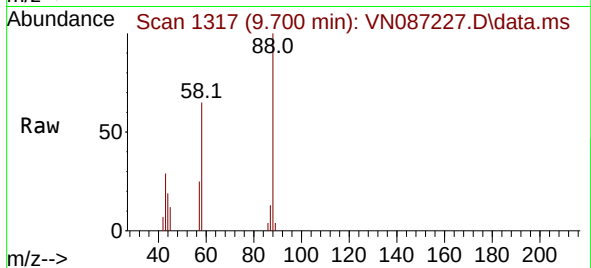
Acq: 27 Jun 2025 17:00

Instrument :

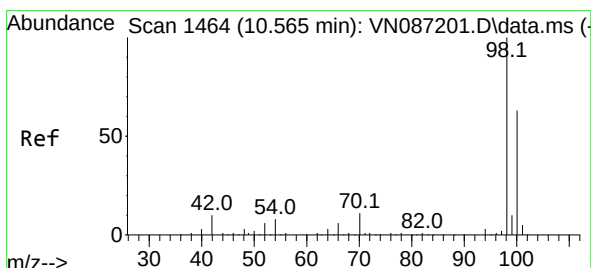
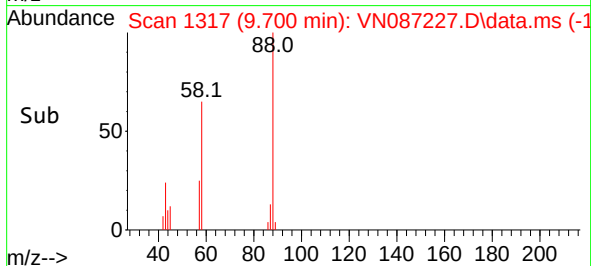
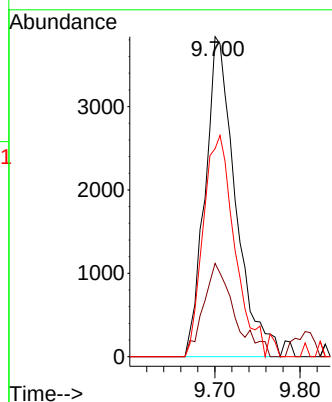
MSVOA_N

ClientSampleId :

250528063-02-VOA



Tgt Ion:	88	Resp:	9513
Ion Ratio	Lower	Upper	
88	100		
43	29.7	0.0	0.0#
58	71.1	59.2	88.8



#50

Toluene-d8

Concen: 48.825 ug/l

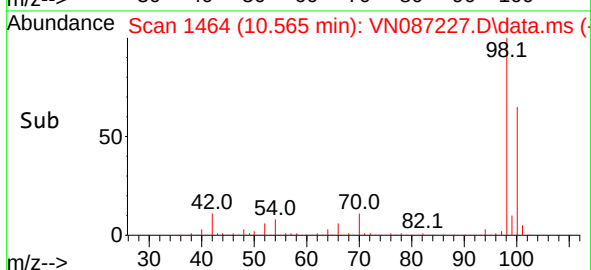
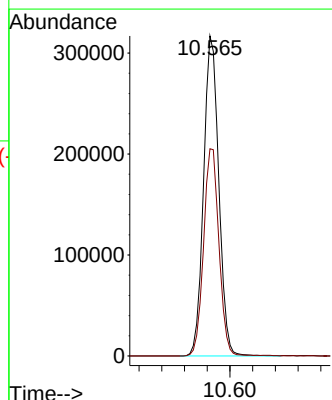
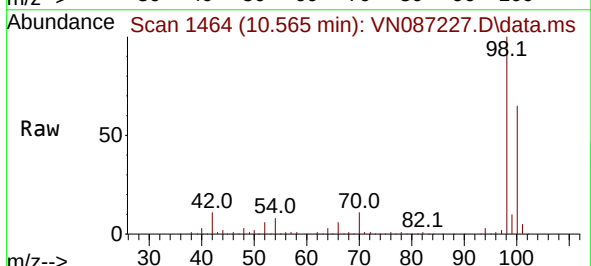
RT: 10.565 min Scan# 1464

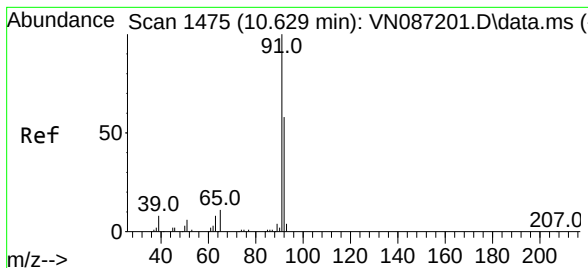
Delta R.T. -0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Tgt Ion:	98	Resp:	587145
Ion Ratio	Lower	Upper	
98	100		
100	65.4	52.7	79.1





#52

Toluene

Concen: 0.754 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

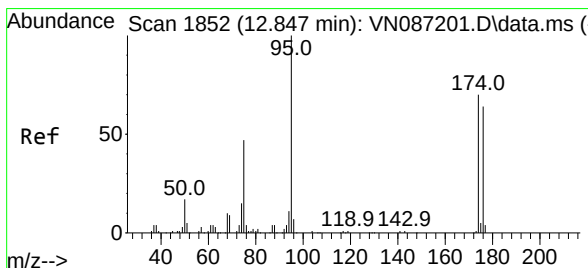
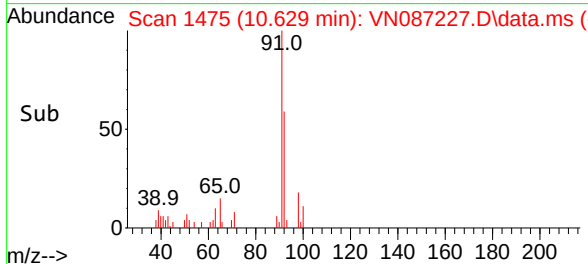
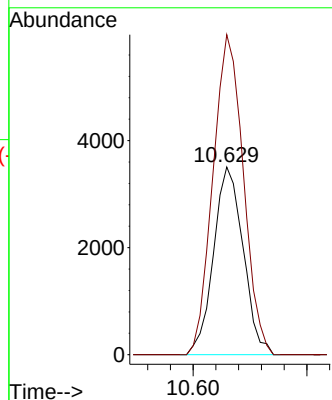
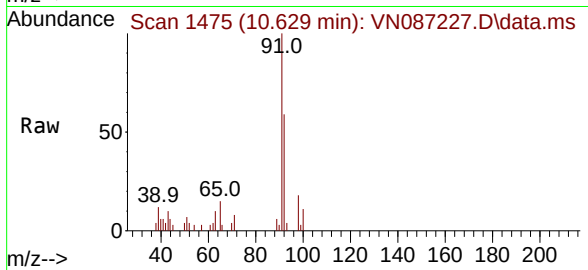
250528063-02-VOA

Tgt Ion: 92 Resp: 6343

Ion Ratio Lower Upper

92 100

91 175.2 138.2 207.2



#62

4-Bromofluorobenzene

Concen: 49.510 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

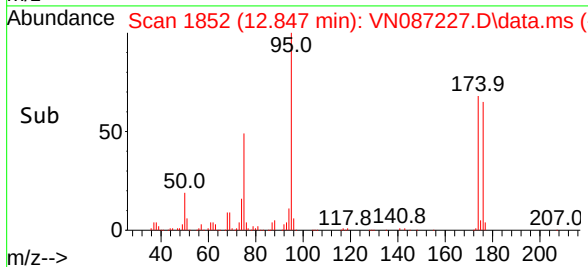
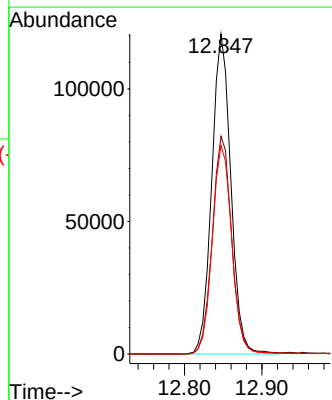
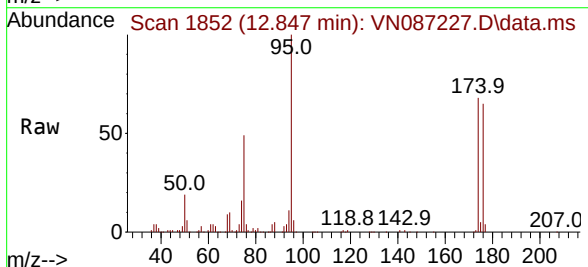
Tgt Ion: 95 Resp: 206595

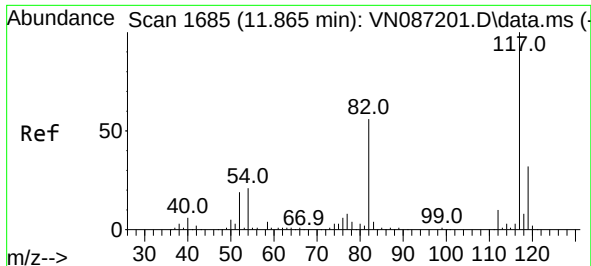
Ion Ratio Lower Upper

95 100

174 69.3 0.0 142.2

176 66.4 0.0 134.8

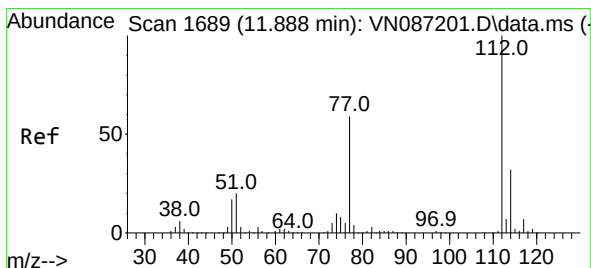
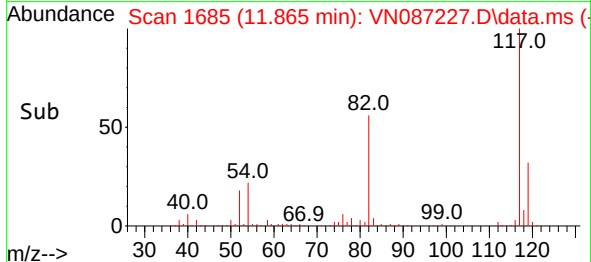
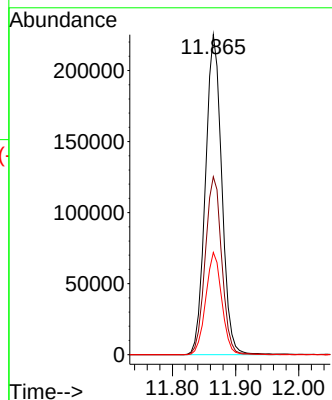
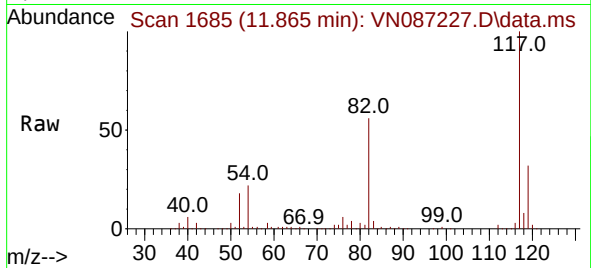




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

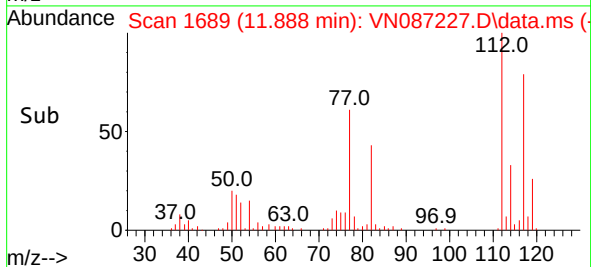
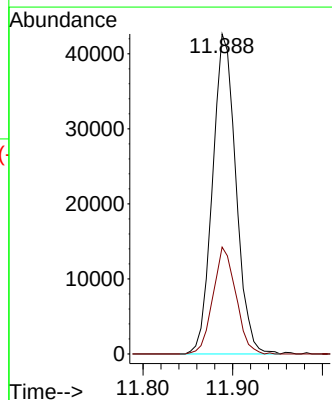
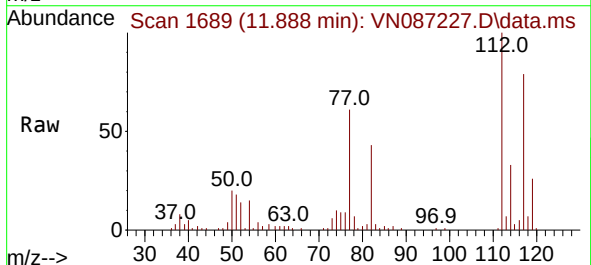
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

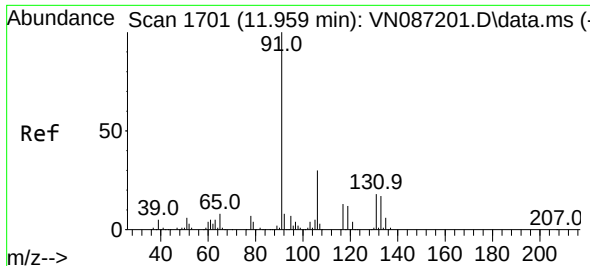
Tgt Ion:117 Resp: 404692
Ion Ratio Lower Upper
117 100
82 55.6 45.0 67.4
119 31.9 25.9 38.9



#65
Chlorobenzene
Concen: 8.584 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion:112 Resp: 77053
Ion Ratio Lower Upper
112 100
114 33.4 25.7 38.5

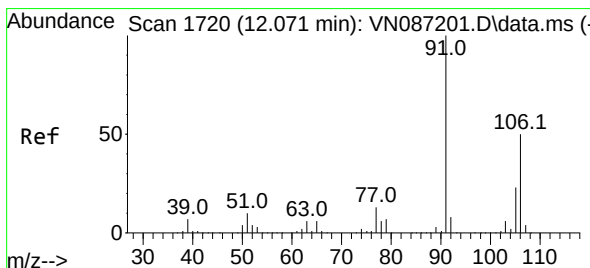
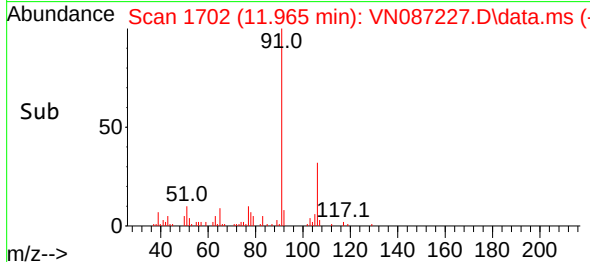
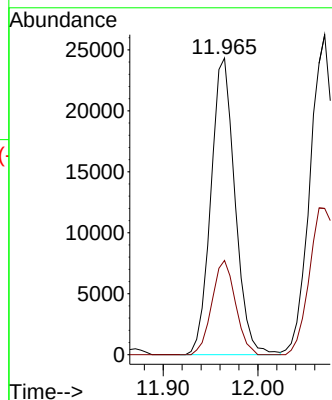
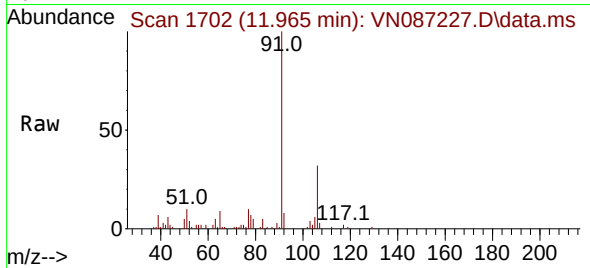




#67
Ethyl Benzene
Concen: 2.880 ug/l
RT: 11.965 min Scan# 1719
Delta R.T. 0.006 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

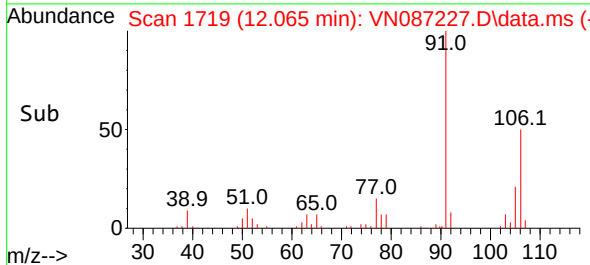
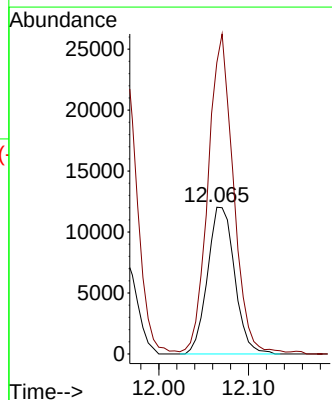
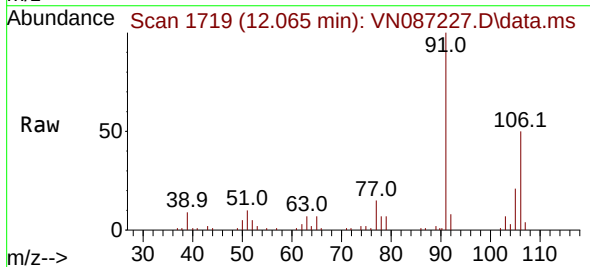
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

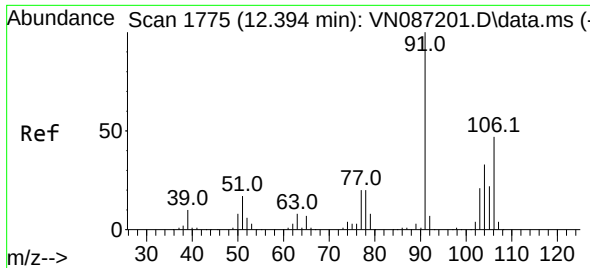
Tgt Ion: 91 Resp: 43116
Ion Ratio Lower Upper
91 100
106 31.8 24.2 36.2



#68
m/p-Xylenes
Concen: 4.400 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion:106 Resp: 25206
Ion Ratio Lower Upper
106 100
91 205.3 161.0 241.6

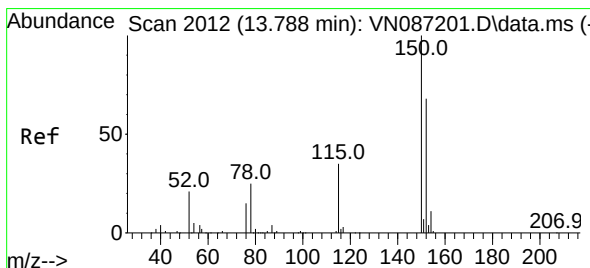
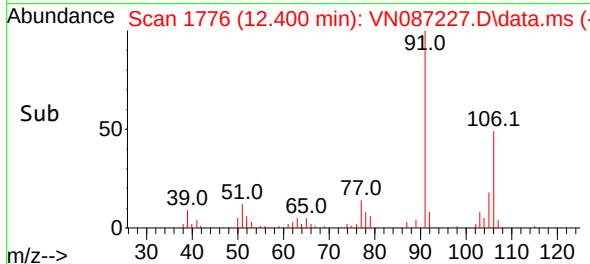
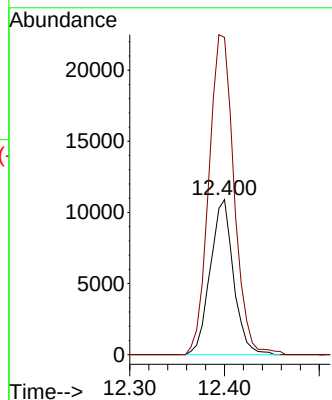
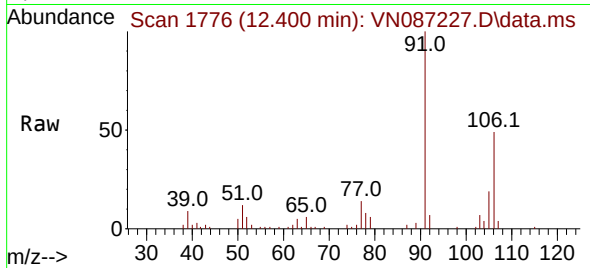




#69
o-Xylene
Concen: 3.569 ug/l
RT: 12.400 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

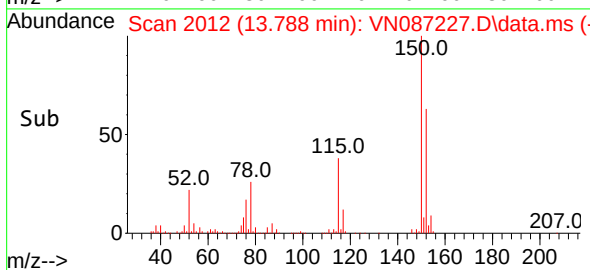
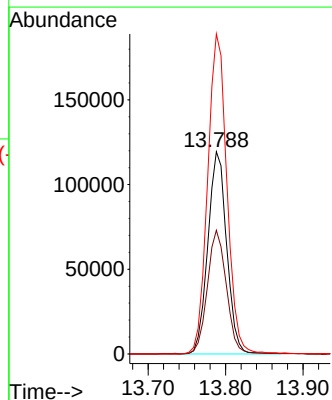
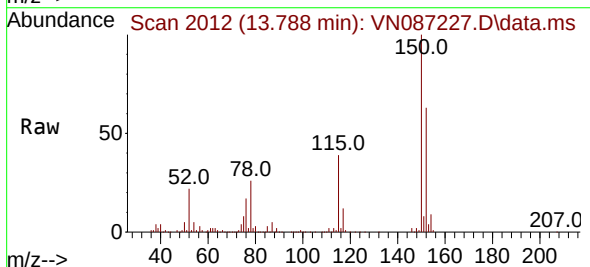
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

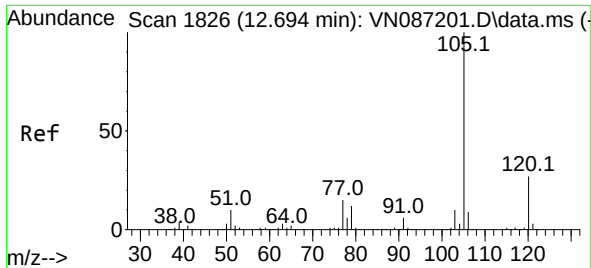
Tgt Ion:106 Resp: 18584
Ion Ratio Lower Upper
106 100
91 223.8 106.7 320.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion:152 Resp: 201312
Ion Ratio Lower Upper
152 100
115 62.2 30.6 91.8
150 162.1 0.0 347.8

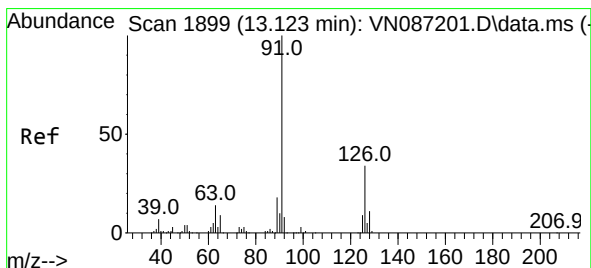
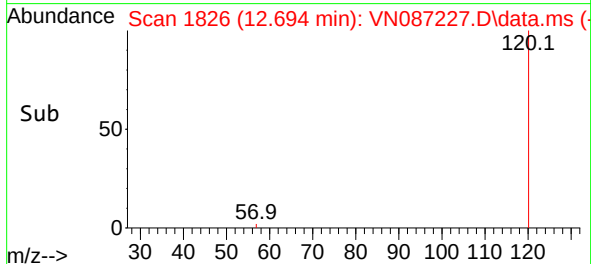
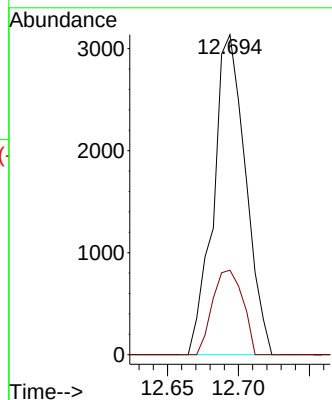
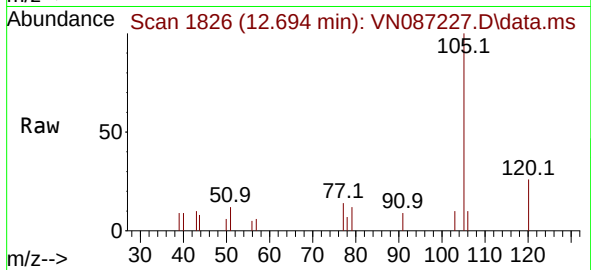




#73
Isopropylbenzene
Concen: 0.362 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

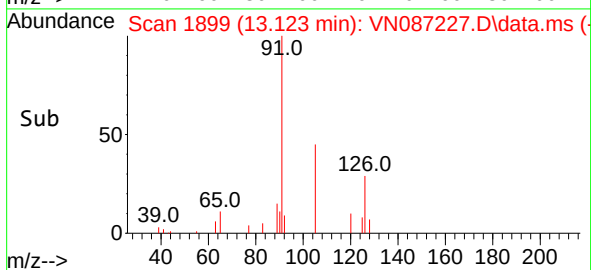
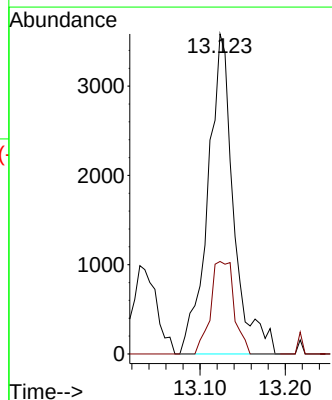
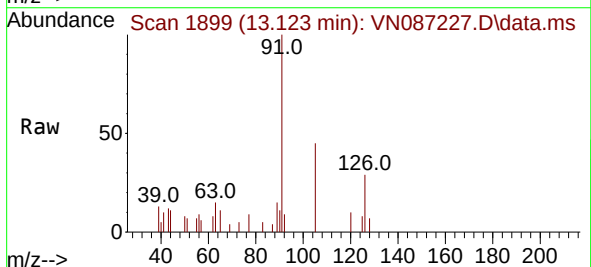
Instrument :
MSVOA_N
ClientSampleId :
250528063-02-VOA

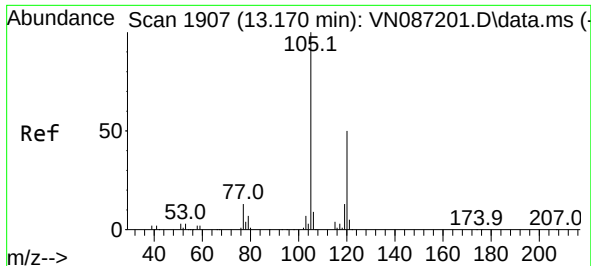
Tgt Ion:105 Resp: 4930
Ion Ratio Lower Upper
105 100
120 24.9 13.4 40.2



#79
2-Chlorotoluene
Concen: 0.719 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN087227.D
Acq: 27 Jun 2025 17:00

Tgt Ion: 91 Resp: 7512
Ion Ratio Lower Upper
91 100
126 26.5 16.4 49.4

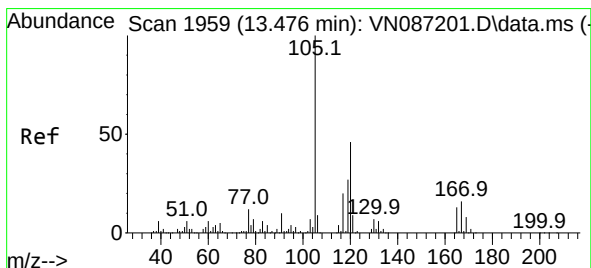
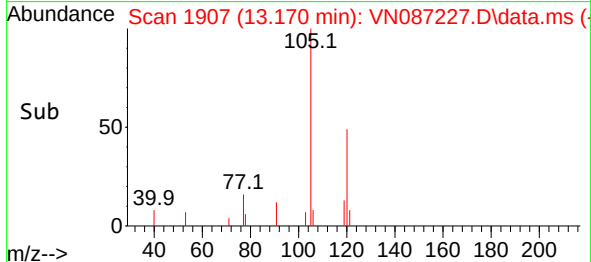
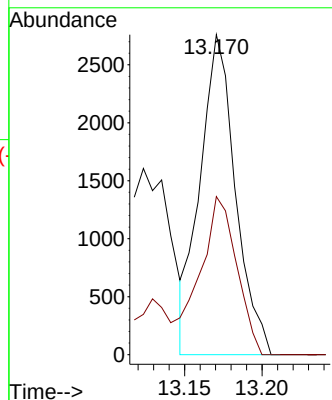
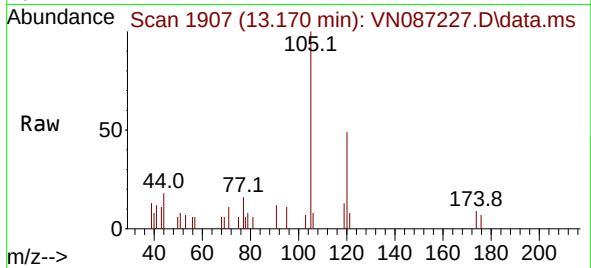




#80
 1,3,5-Trimethylbenzene
 Concen: 0.390 ug/l
 RT: 13.170 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VN087227.D
 Acq: 27 Jun 2025 17:00

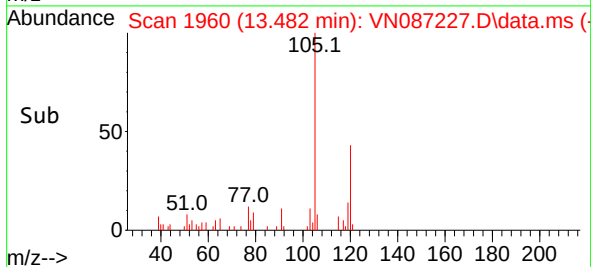
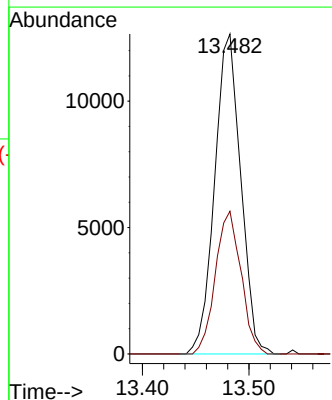
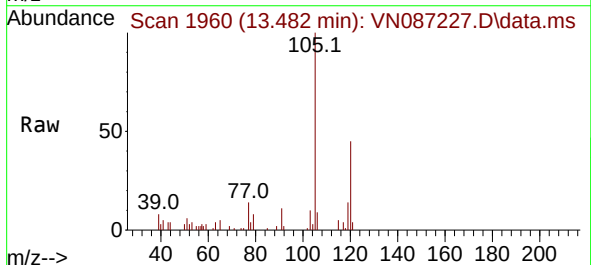
Instrument :
 MSVOA_N
 ClientSampleId :
 250528063-02-VOA

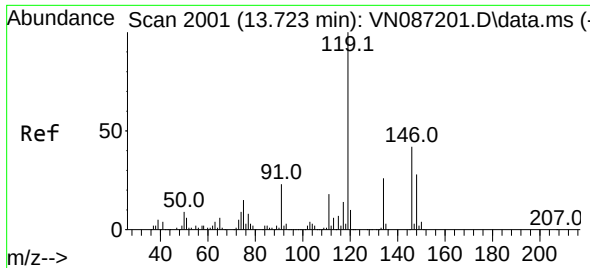
Tgt Ion:105 Resp: 4383
 Ion Ratio Lower Upper
 105 100
 120 52.1 25.1 75.3



#84
 1,2,4-Trimethylbenzene
 Concen: 1.884 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.006 min
 Lab File: VN087227.D
 Acq: 27 Jun 2025 17:00

Tgt Ion:105 Resp: 21513
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.9 68.8

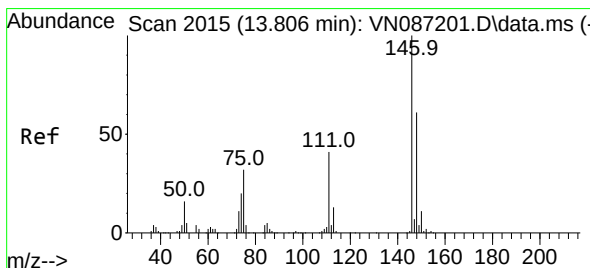
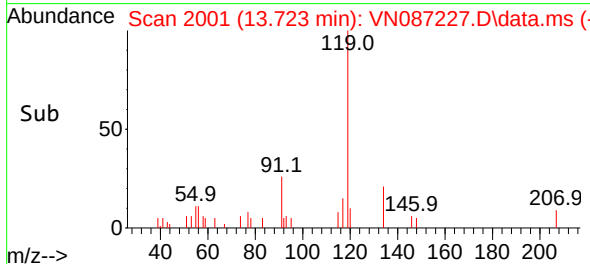
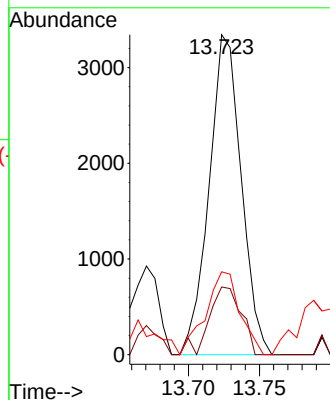
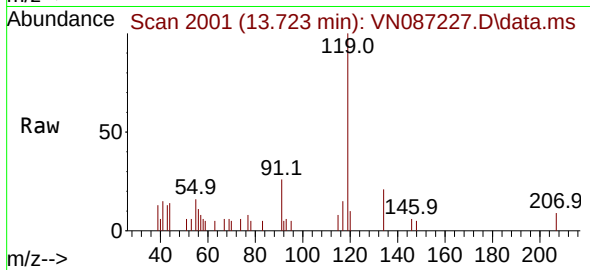




#86
 p-Isopropyltoluene
 Concen: 0.451 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN087227.D
 Acq: 27 Jun 2025 17:00

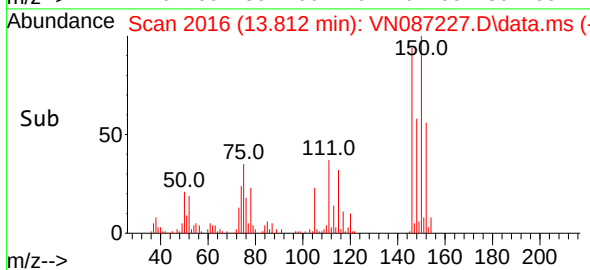
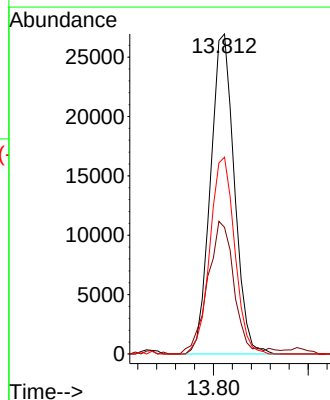
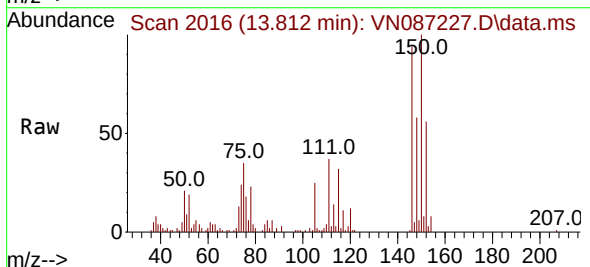
Instrument :
 MSVOA_N
 ClientSampleId :
 250528063-02-VOA

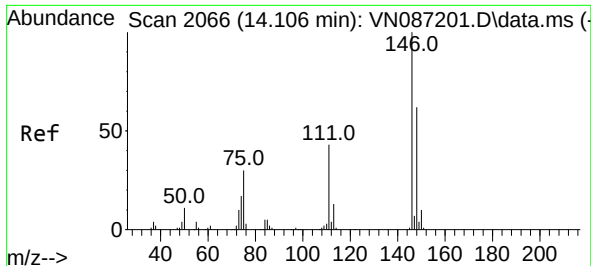
Tgt Ion:	119	Resp:	5263
Ion Ratio	Lower	Upper	
119	100		
134	21.3	13.4	40.1
91	27.7	11.5	34.4



#88
 1,4-Dichlorobenzene
 Concen: 6.878 ug/l
 RT: 13.812 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: VN087227.D
 Acq: 27 Jun 2025 17:00

Tgt Ion:	146	Resp:	47130
Ion Ratio	Lower	Upper	
146	100		
111	46.4	19.9	59.6
148	63.6	31.4	94.0





#91

1,2-Dichlorobenzene

Concen: 0.471 ug/l

RT: 14.100 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Instrument :

MSVOA_N

ClientSampleId :

250528063-02-VOA

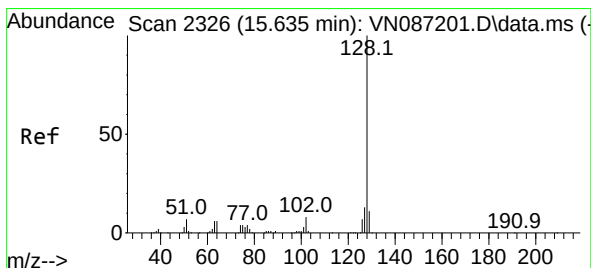
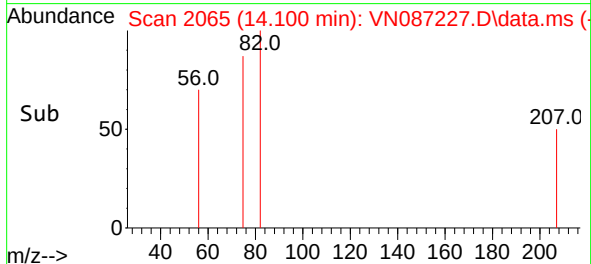
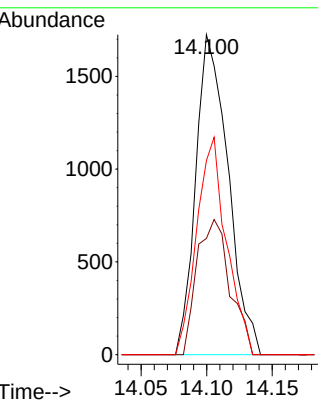
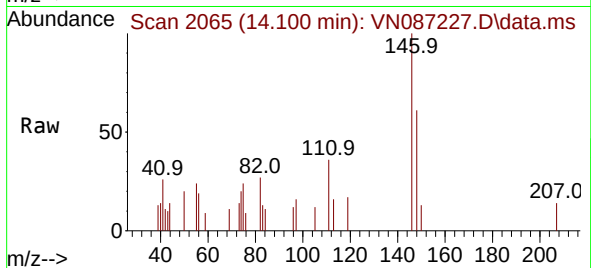
Tgt Ion:146 Resp: 2957

Ion Ratio Lower Upper

146 100

111 43.3 21.4 64.2

148 62.7 31.5 94.5



#95

Naphthalene

Concen: 5.437 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN087227.D

Acq: 27 Jun 2025 17:00

Tgt Ion:128 Resp: 72078

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

129 10.5 8.6 13.0

