

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080725\
 Data File : VN087490.D
 Acq On : 07 Aug 2025 13:31
 Operator : JC\MD
 Sample : Q2790-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250806078-01 VOA

Quant Time: Aug 08 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

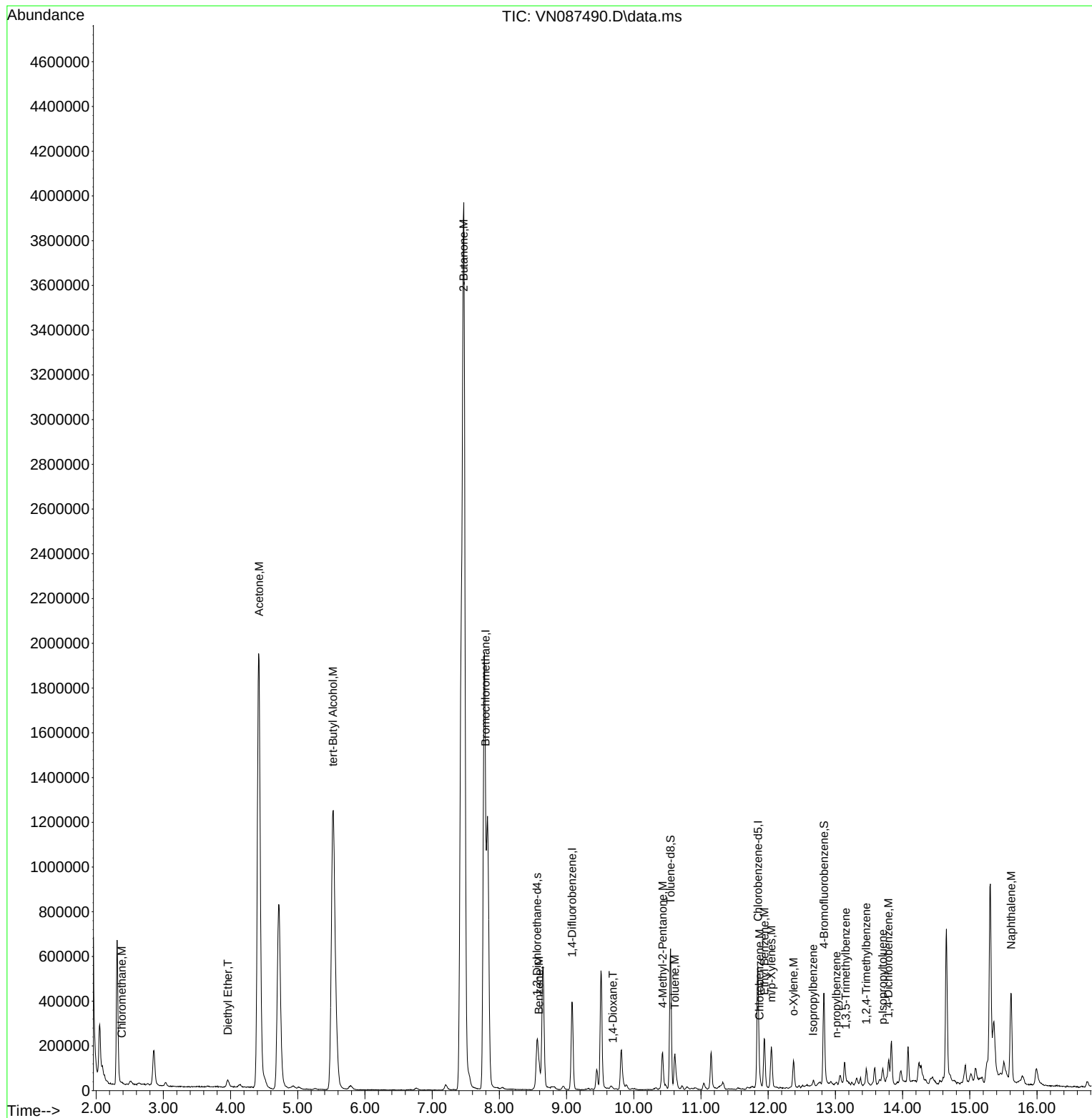
Internal Standards						
1) Bromochloromethane	7.794	128	54560	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	316057	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	290299	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	175250	34.825	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 116.067%#			
60) 4-Bromofluorobenzene	12.829	95	142539	28.531	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.100%			
63) Toluene-d8	10.547	98	394535	29.537	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds					Qvalue	
3) Chloromethane	2.383	50	7409	2.027	ug/l #	84
8) Diethyl Ether	3.959	74	19618	8.441	ug/l	93
15) Acetone	4.424	58	1097746	1595.548	ug/l	97
23) tert-Butyl Alcohol	5.524	59	2498873	2442.223	ug/l #	100
30) 2-Butanone	7.471	43	6387497	1681.023	ug/l	99
34) Benzene	8.588	78	61173	3.759	ug/l #	91
45) 1,4-Dioxane	9.688	88	3952	49.820	ug/l #	80
58) 4-Methyl-2-Pentanone	10.429	43	126204	16.900	ug/l	95
62) Toluene	10.612	91	108992	6.083	ug/l	97
64) Chlorobenzene	11.870	112	14952	1.358	ug/l	100
66) Ethyl Benzene	11.947	91	158840	7.954	ug/l	98
67) m/p-Xylenes	12.047	106	50207	6.849	ug/l	100
68) o-Xylene	12.376	106	29183	4.047	ug/l	96
70) Isopropylbenzene	12.670	105	15753	0.860	ug/l	95
74) n-propylbenzene	13.017	91	12020	0.525	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	8878	0.566	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	40682	2.595	ug/l	99
82) p-Isopropyltoluene	13.706	119	28809	1.802	ug/l	91
84) 1,4-Dichlorobenzene	13.788	146	27512	3.355	ug/l	91
91) Naphthalene	15.617	128	366881	20.854	ug/l	100

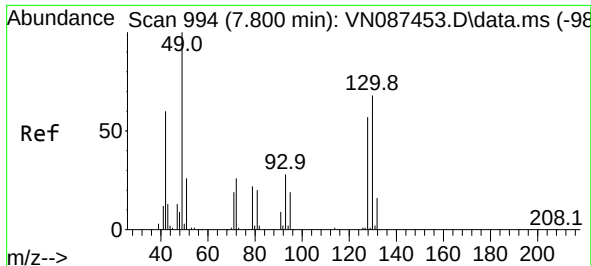
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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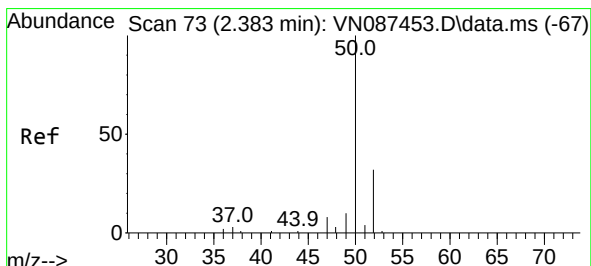
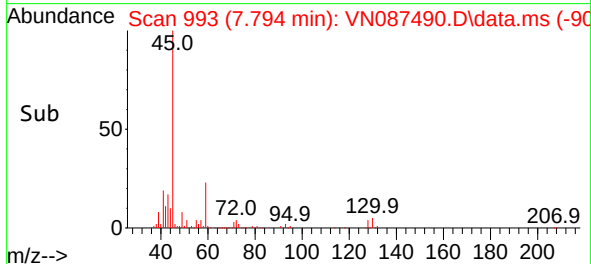
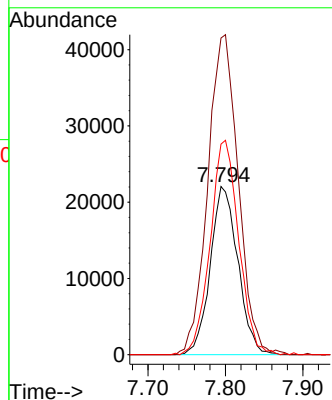
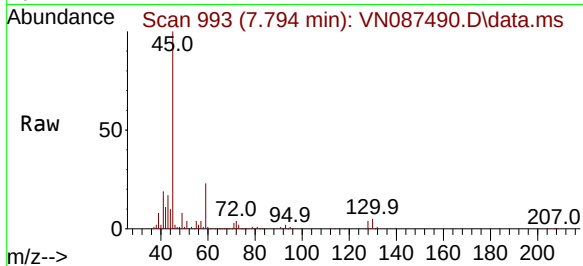




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

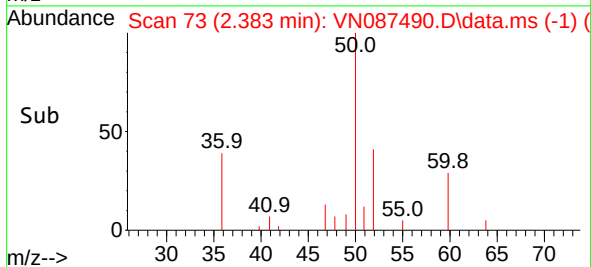
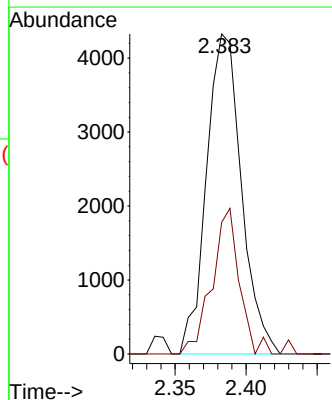
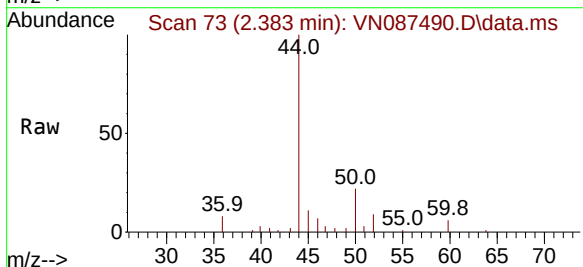
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

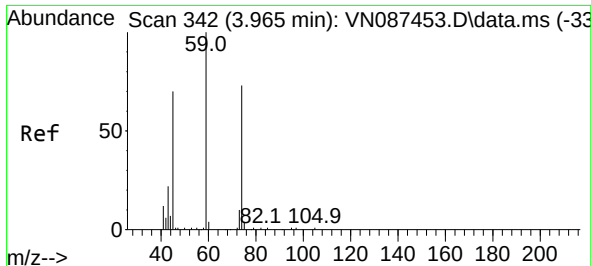
Tgt Ion:128 Resp: 54560
Ion Ratio Lower Upper
128 100
49 209.4 0.0 494.8
130 131.7 0.0 321.5



#3
Chloromethane
Concen: 2.027 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 50 Resp: 7409
Ion Ratio Lower Upper
50 100
52 41.1 25.8 38.6#

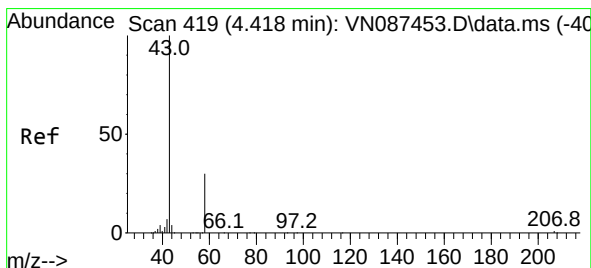
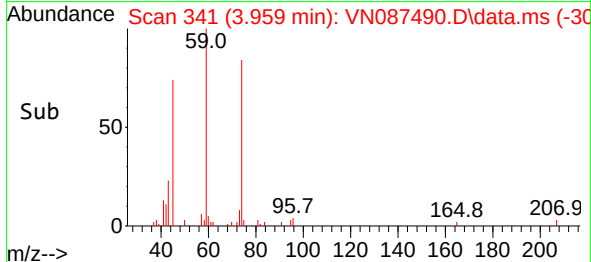
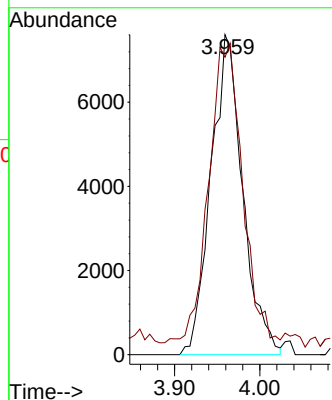
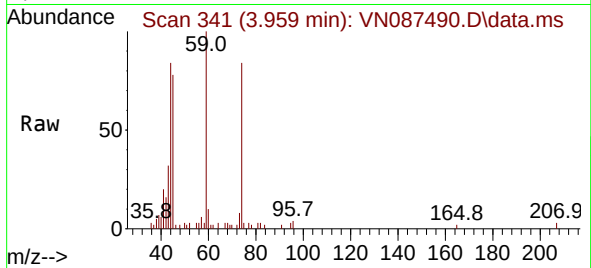




#8
Diethyl Ether
Concen: 8.441 ug/l
RT: 3.959 min Scan# 34
Delta R.T. -0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

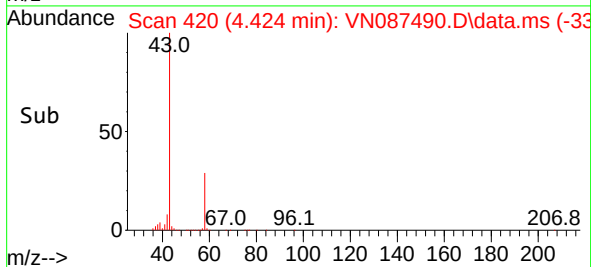
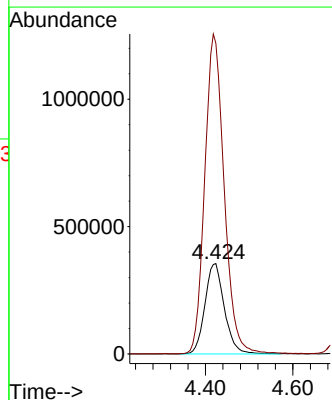
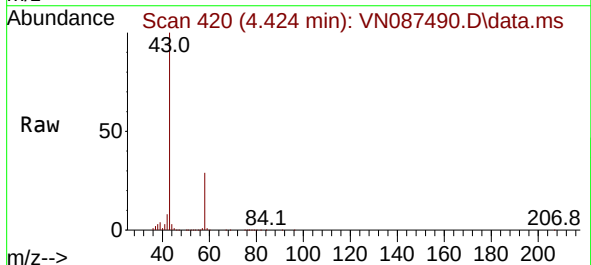
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

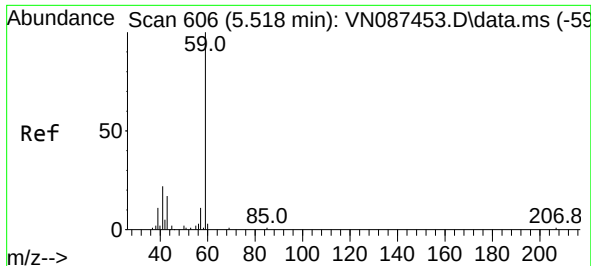
Tgt Ion: 74 Resp: 19618
Ion Ratio Lower Upper
74 100
45 93.9 20.1 180.9



#15
Acetone
Concen: 1595.548 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 58 Resp: 1097746
Ion Ratio Lower Upper
58 100
43 343.4 268.9 403.3

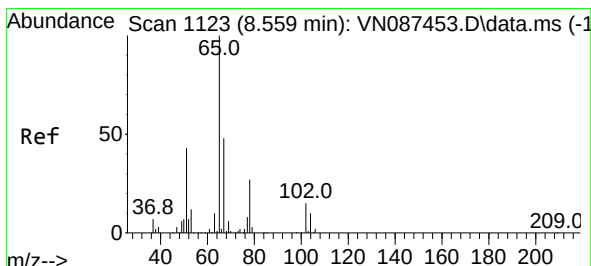
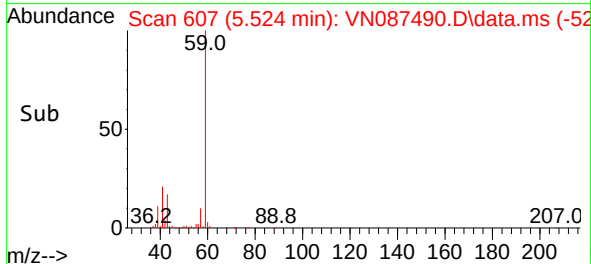
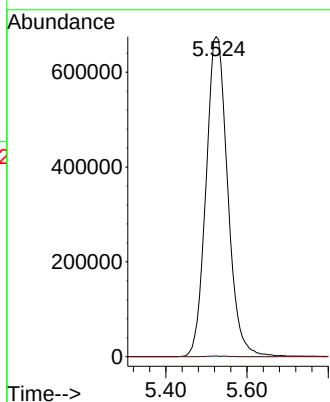
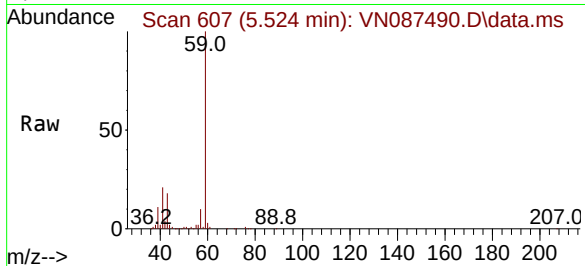




#23
tert-Butyl Alcohol
Concen: 2442.223 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

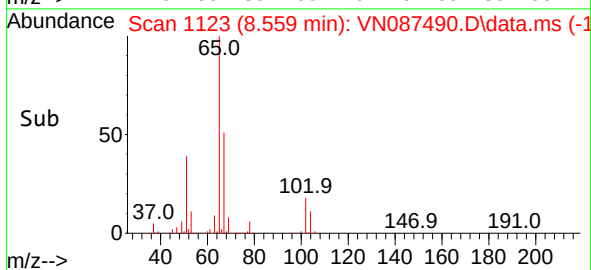
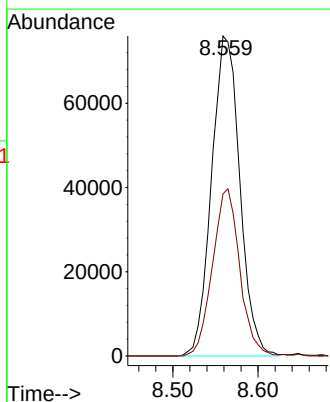
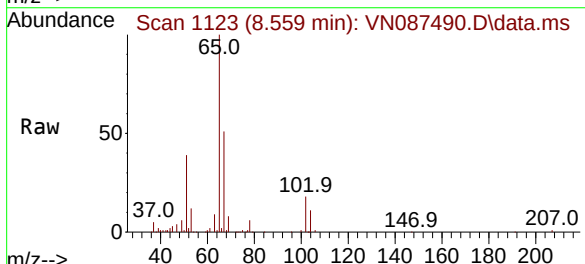
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

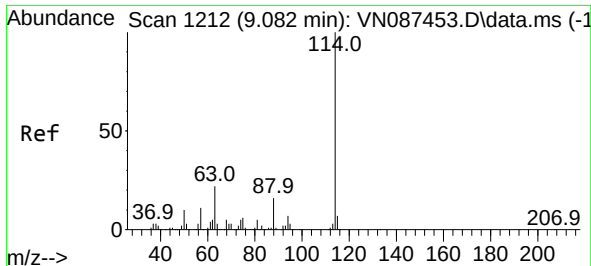
Tgt Ion: 59 Resp: 2498873
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#



#27
1,2-Dichloroethane-d4
Concen: 34.825 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 65 Resp: 175250
Ion Ratio Lower Upper
65 100
67 50.3 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087490.D

Acq: 07 Aug 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

250806078-01 VOA

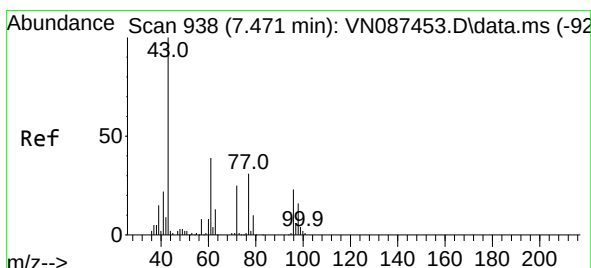
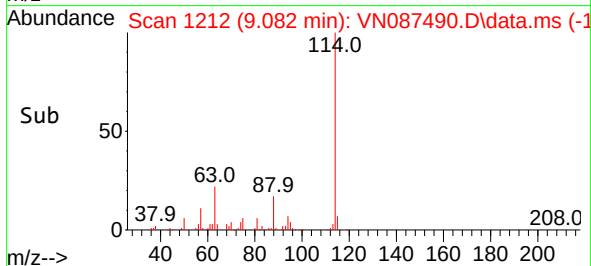
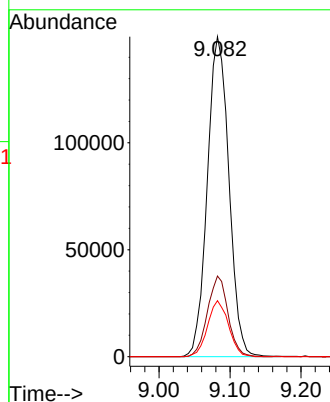
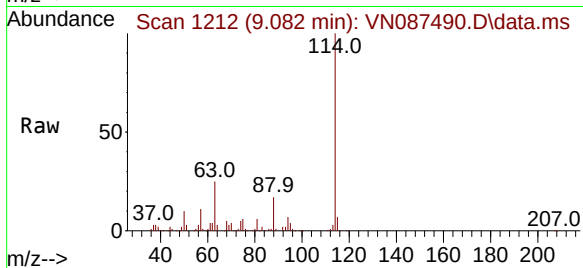
Tgt Ion:114 Resp: 316057

Ion Ratio Lower Upper

114 100

63 24.0 18.9 28.3

88 17.0 13.1 19.7



#30

2-Butanone

Concen: 1681.023 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087490.D

Acq: 07 Aug 2025 13:31

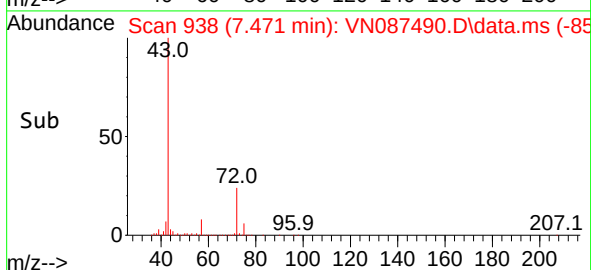
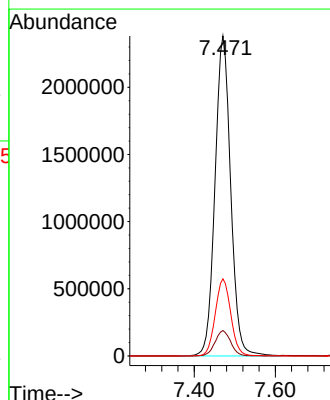
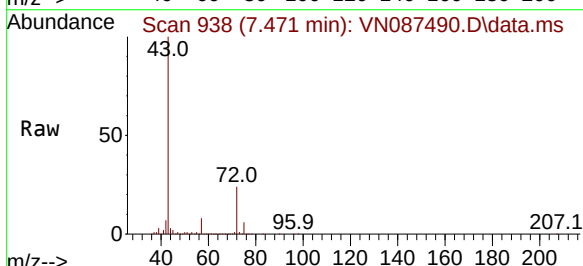
Tgt Ion: 43 Resp: 6387497

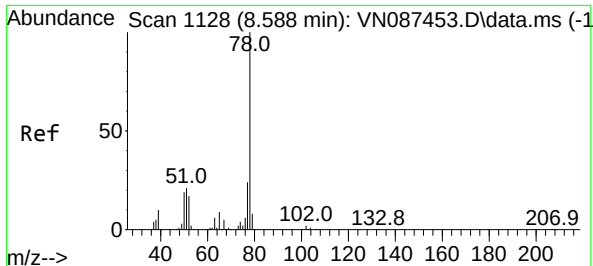
Ion Ratio Lower Upper

43 100

57 8.0 6.6 9.8

72 23.9 19.7 29.5

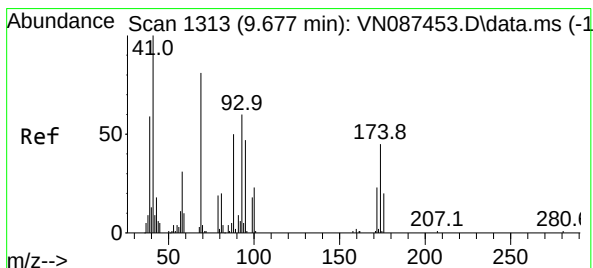
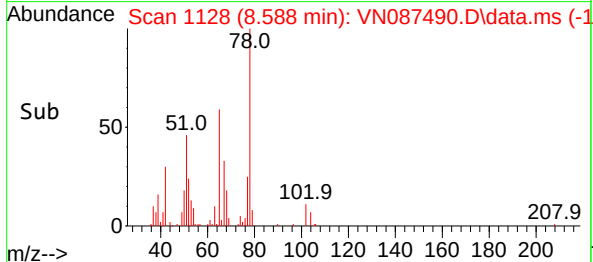
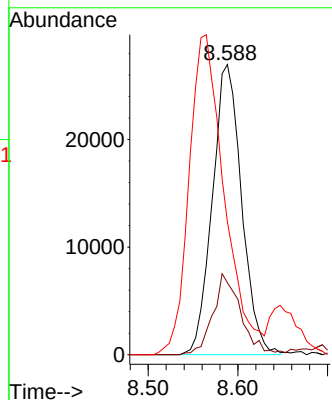
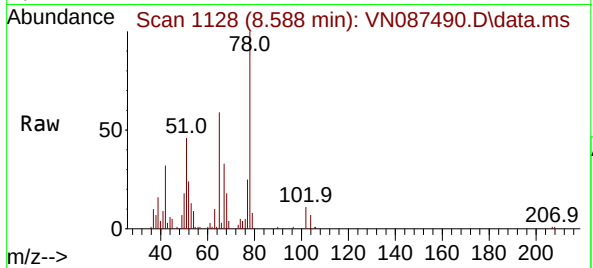




#34
Benzene
Concen: 3.759 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

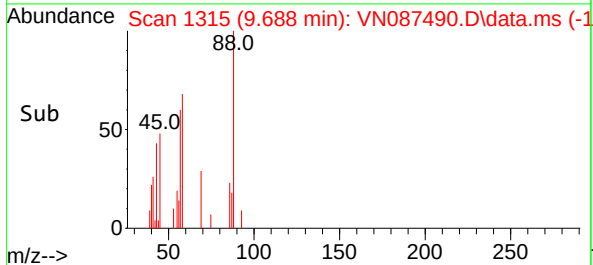
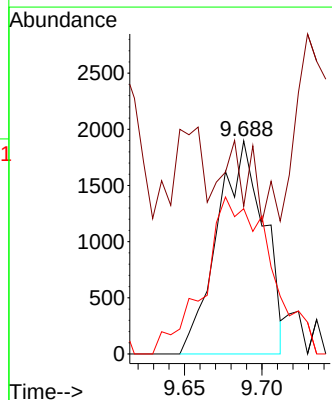
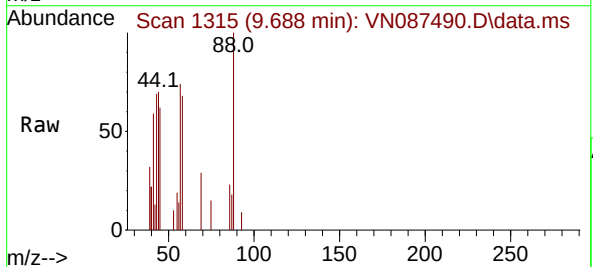
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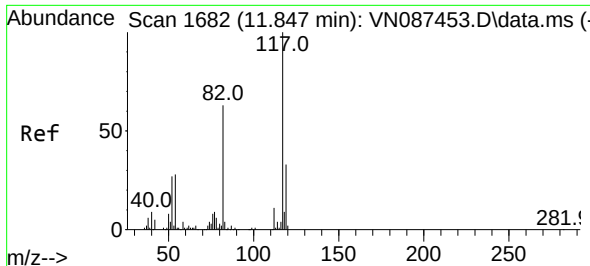
Tgt Ion: 78 Resp: 61173
Ion Ratio Lower Upper
78 100
77 24.8 19.2 28.8
51 28.8 16.9 25.3#



#45
1,4-Dioxane
Concen: 49.820 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.012 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

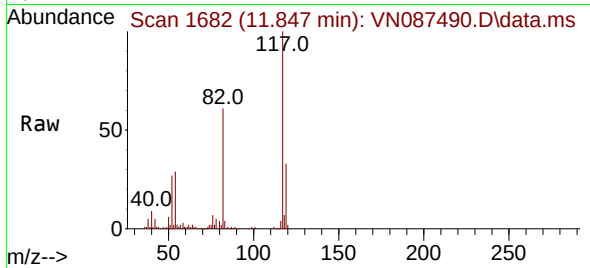
Tgt Ion: 88 Resp: 3952
Ion Ratio Lower Upper
88 100
43 46.2 24.1 36.1#
58 85.3 57.2 85.8



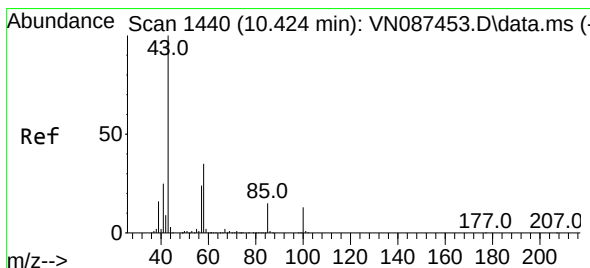
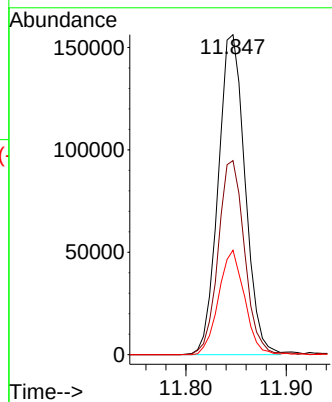
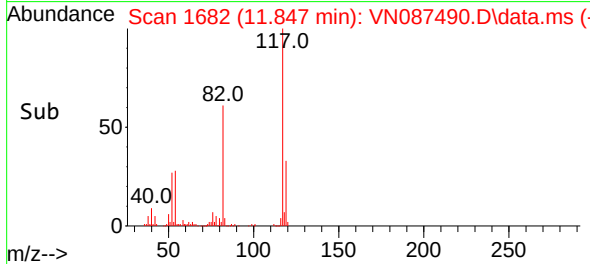


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Instrument :
MSVOA_N
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250806078-01 VOA

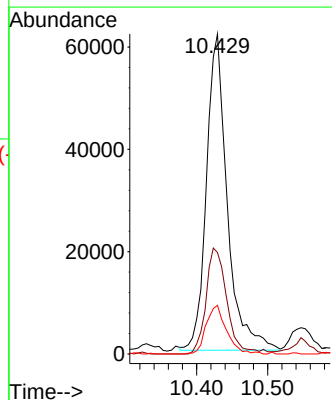
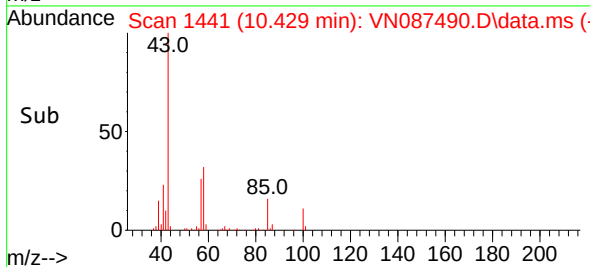
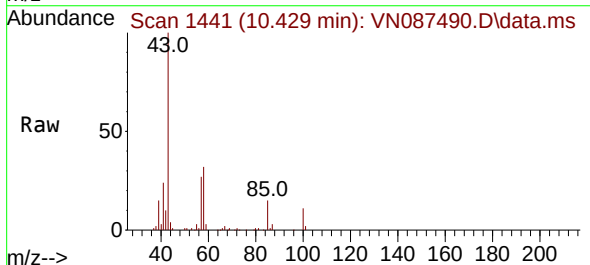


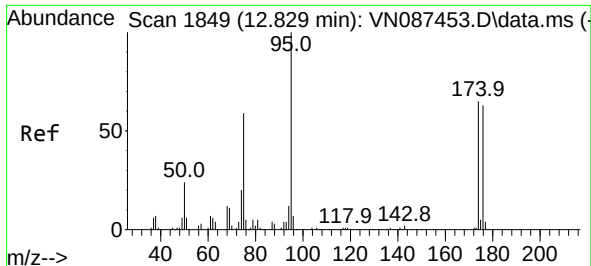
Tgt Ion:117 Resp: 290299
Ion Ratio Lower Upper
117 100
82 59.7 49.2 73.8
119 31.4 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 16.900 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 43 Resp: 126204
Ion Ratio Lower Upper
43 100
58 33.1 29.0 43.6
85 14.8 12.7 19.1

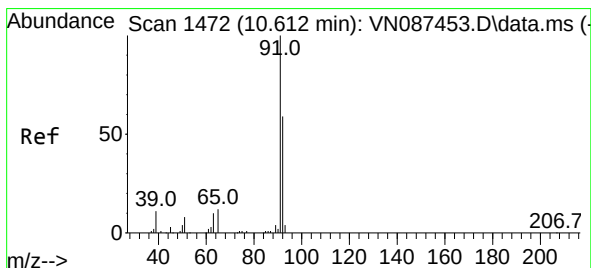
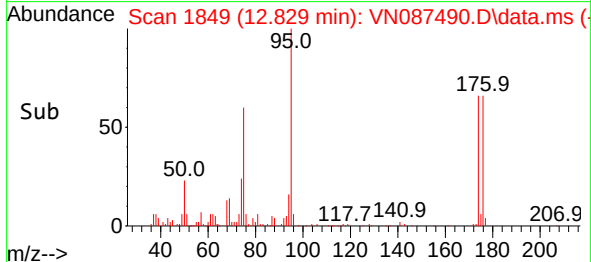
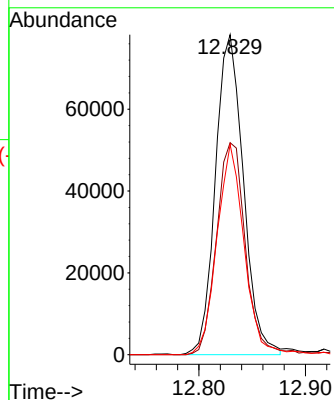
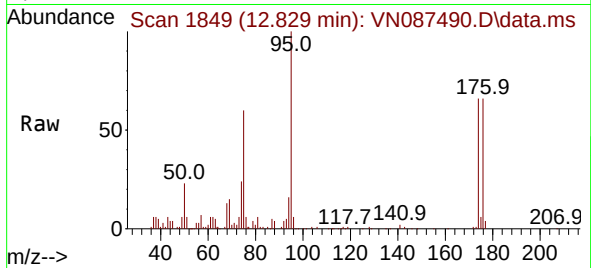




#60
4-Bromofluorobenzene
Concen: 28.531 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

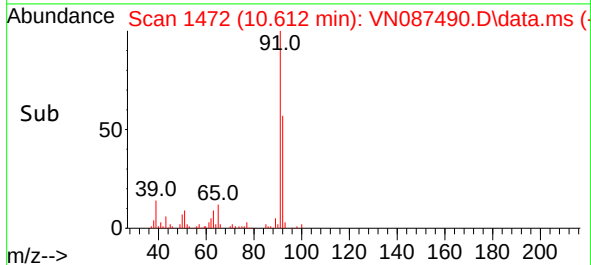
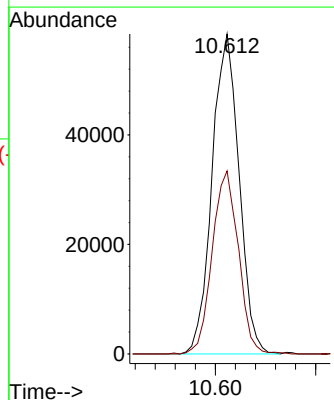
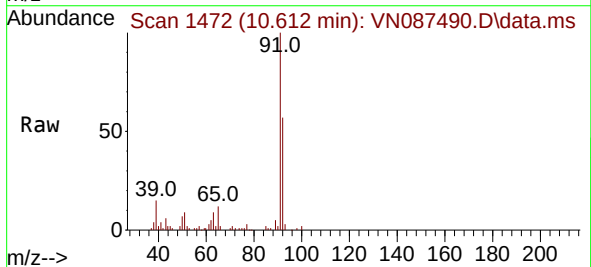
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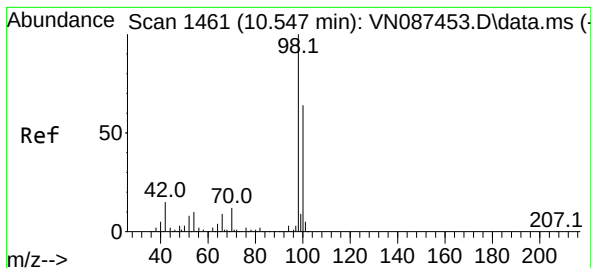
Tgt Ion: 95 Resp: 142539
Ion Ratio Lower Upper
95 100
174 68.1 52.3 78.5
176 63.3 49.8 74.8



#62
Toluene
Concen: 6.083 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 91 Resp: 108992
Ion Ratio Lower Upper
91 100
92 55.3 45.8 68.6





#63

Toluene-d8

Concen: 29.537 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087490.D

Acq: 07 Aug 2025 13:31

Instrument :

MSVOA_N

ClientSampleId :

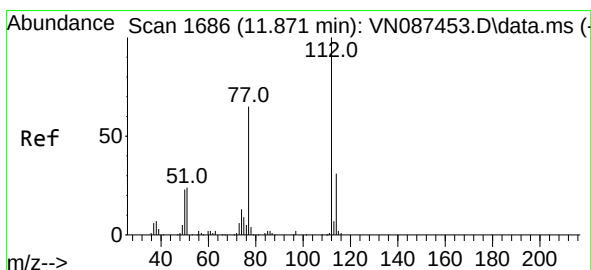
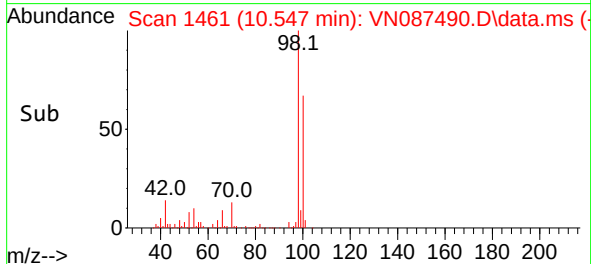
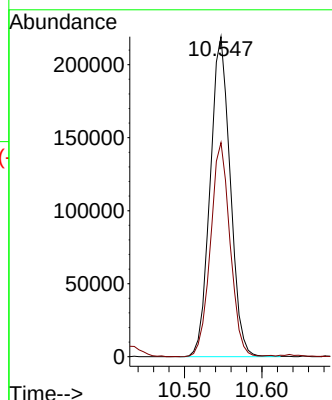
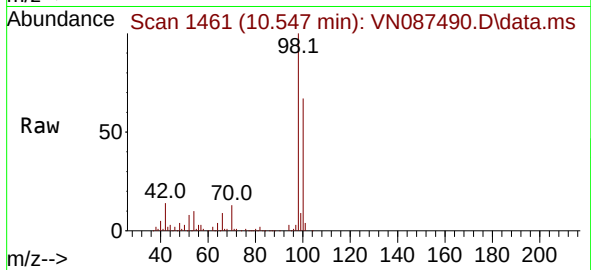
250806078-01 VOA

Tgt Ion: 98 Resp: 394535

Ion Ratio Lower Upper

98 100

100 65.1 50.5 75.7



#64

Chlorobenzene

Concen: 1.358 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN087490.D

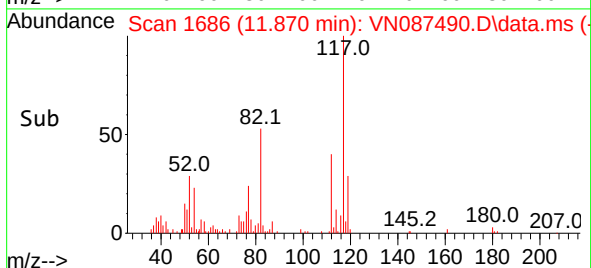
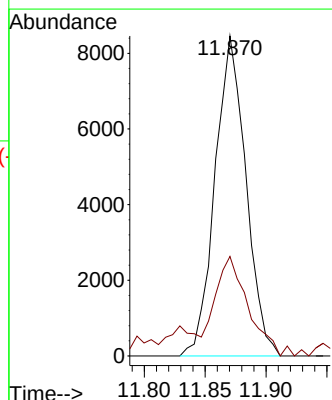
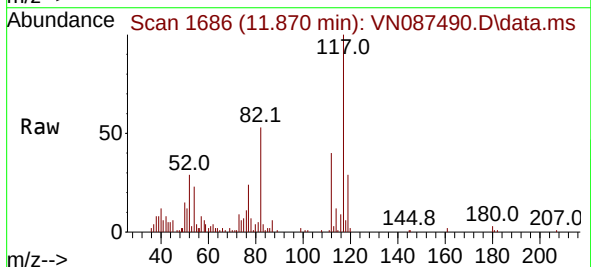
Acq: 07 Aug 2025 13:31

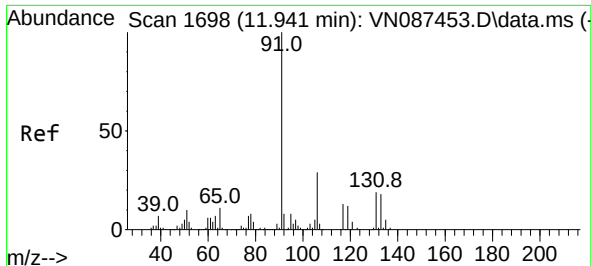
Tgt Ion: 112 Resp: 14952

Ion Ratio Lower Upper

112 100

114 31.1 24.7 37.1

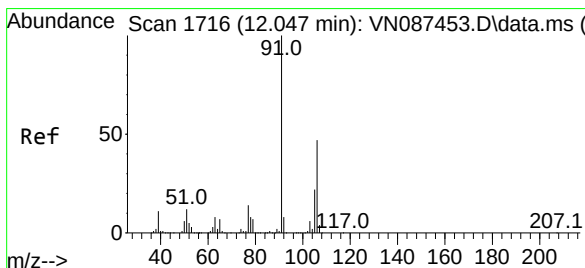
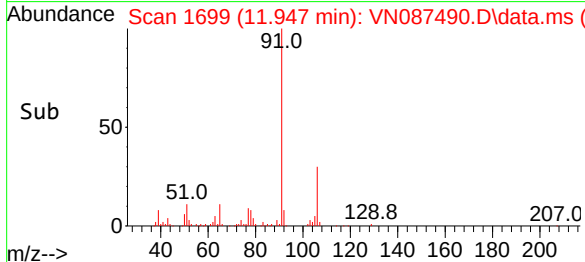
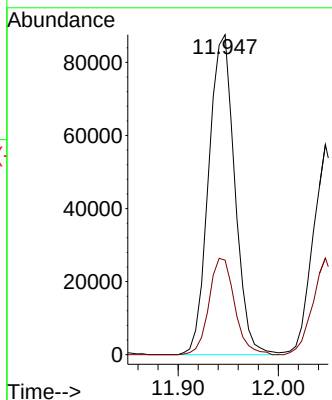
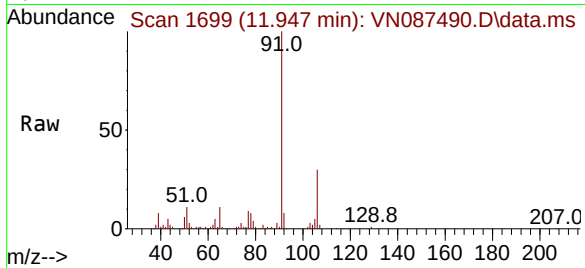




#66
Ethyl Benzene
Concen: 7.954 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

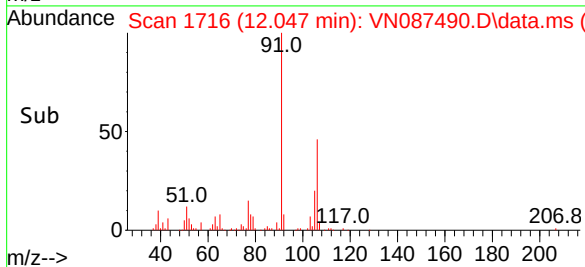
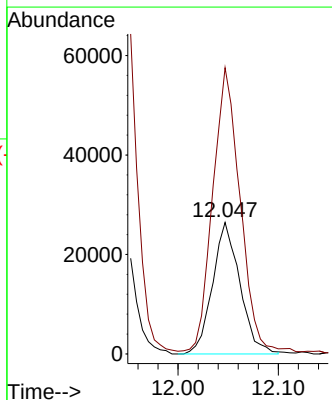
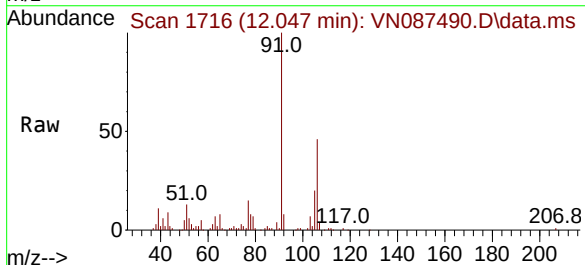
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

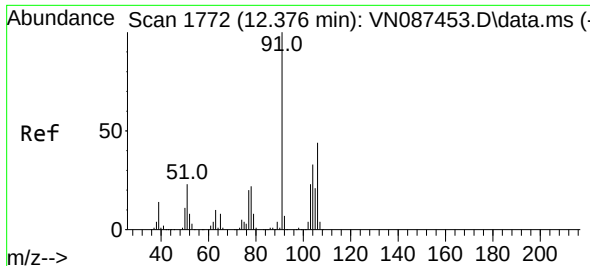
Tgt Ion: 91 Resp: 158840
Ion Ratio Lower Upper
91 100
106 29.6 22.9 34.3



#67
m/p-Xylenes
Concen: 6.849 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion: 106 Resp: 50207
Ion Ratio Lower Upper
106 100
91 218.1 174.2 261.2

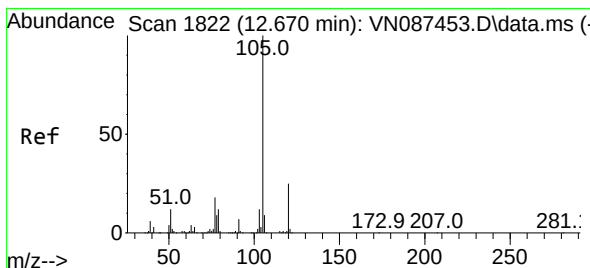
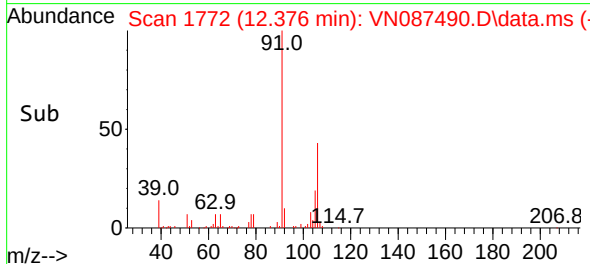
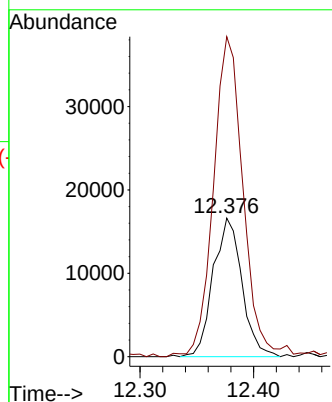
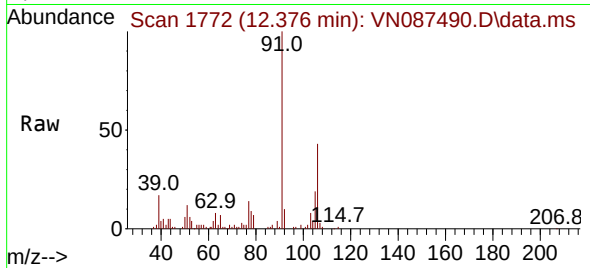




#68
o-Xylene
Concen: 4.047 ug/l
RT: 12.376 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

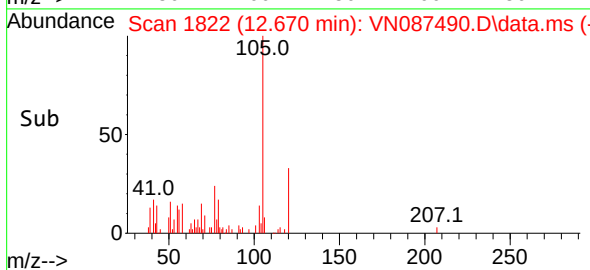
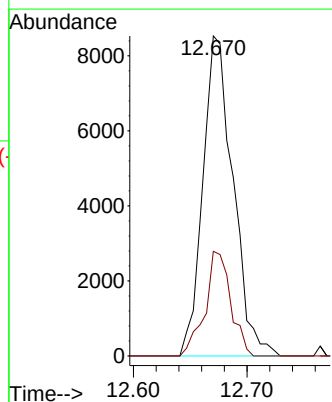
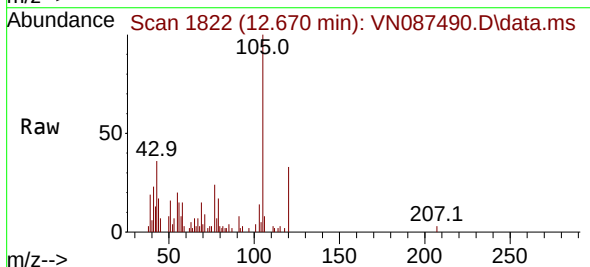
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

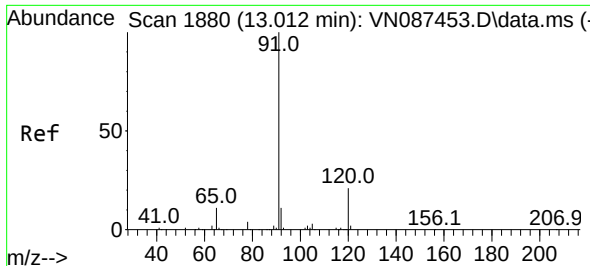
Tgt Ion:106 Resp: 29183
Ion Ratio Lower Upper
106 100
91 235.5 114.5 343.5



#70
Isopropylbenzene
Concen: 0.860 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion:105 Resp: 15753
Ion Ratio Lower Upper
105 100
120 27.7 17.5 32.5

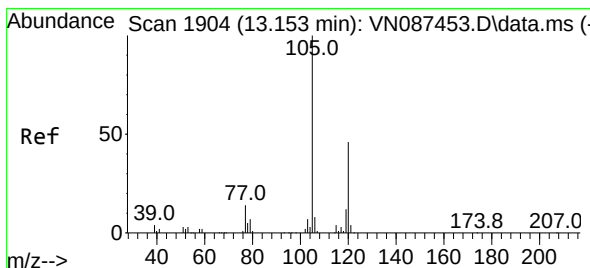
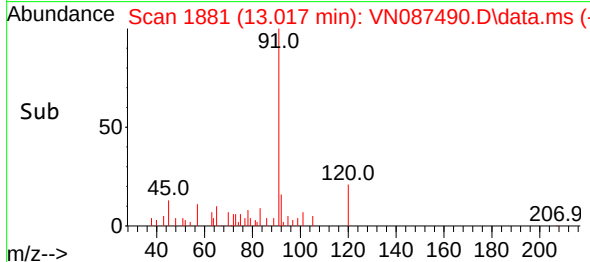
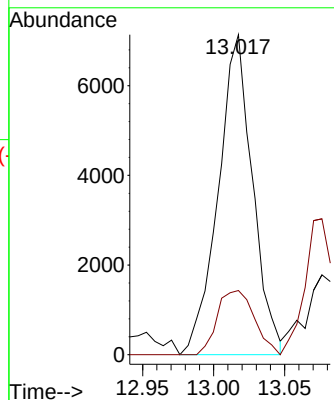
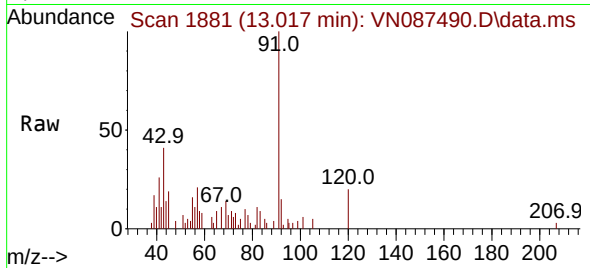




#74
n-propylbenzene
Concen: 0.525 ug/l
RT: 13.017 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

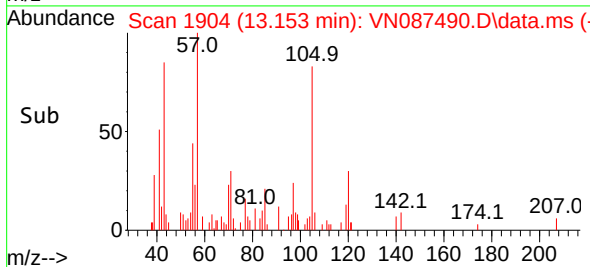
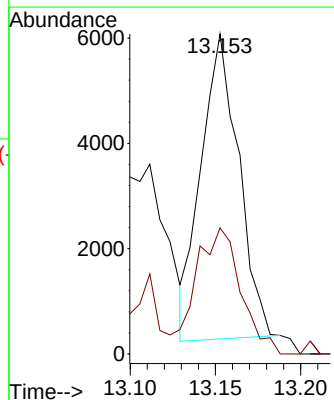
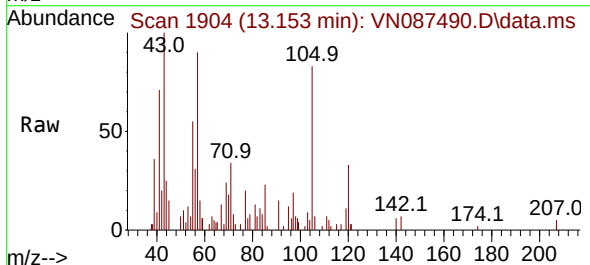
Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

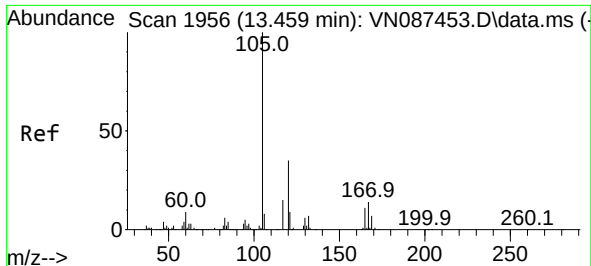
Tgt Ion: 91 Resp: 12020
Ion Ratio Lower Upper
91 100
120 21.6 0.0 41.8



#76
1,3,5-Trimethylbenzene
Concen: 0.566 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion:105 Resp: 8878
Ion Ratio Lower Upper
105 100
120 49.1 0.0 91.2

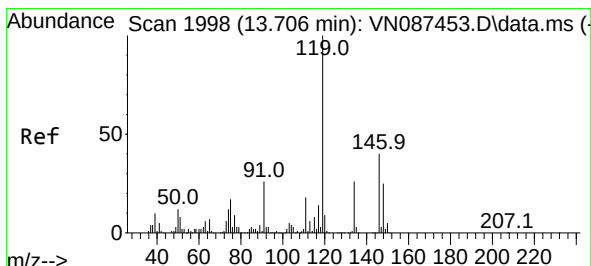
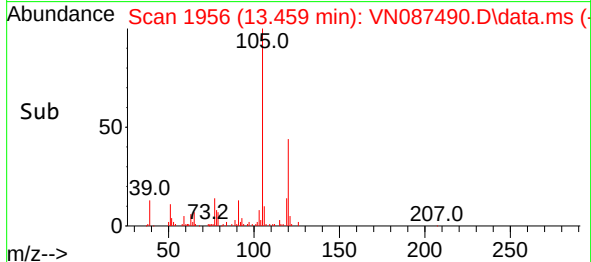
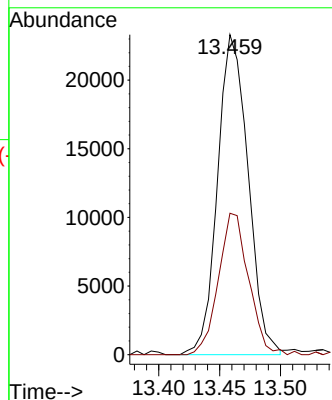
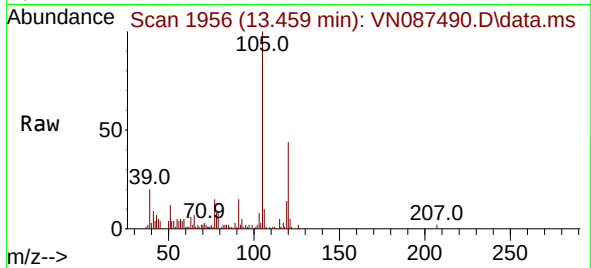




#80
 1,2,4-Trimethylbenzene
 Concen: 2.595 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.000 min
 Lab File: VN087490.D
 Acq: 07 Aug 2025 13:31

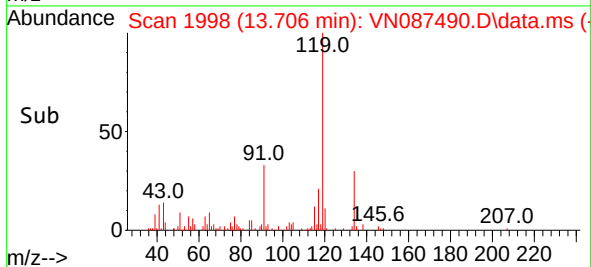
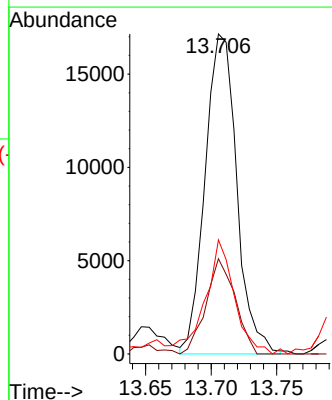
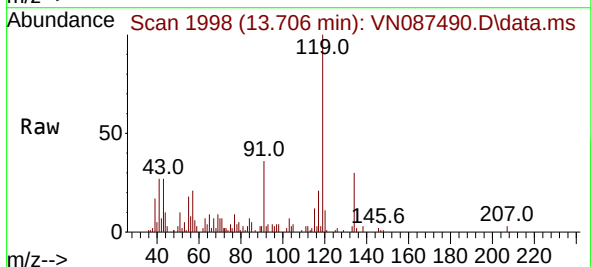
Instrument :
 MSVOA_N
 ClientSampleId :
 250806078-01 VOA

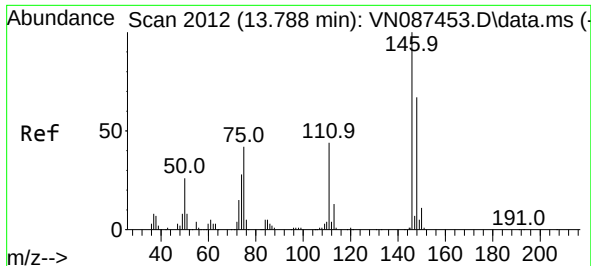
Tgt Ion:105 Resp: 40682
 Ion Ratio Lower Upper
 105 100
 120 43.3 0.0 87.2



#82
 p-Isopropyltoluene
 Concen: 1.802 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087490.D
 Acq: 07 Aug 2025 13:31

Tgt Ion:119 Resp: 28809
 Ion Ratio Lower Upper
 119 100
 134 27.4 0.0 51.4
 91 33.2 0.0 52.0

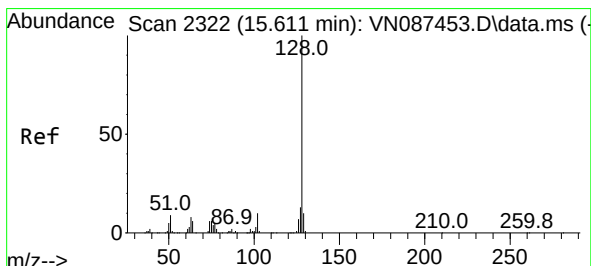
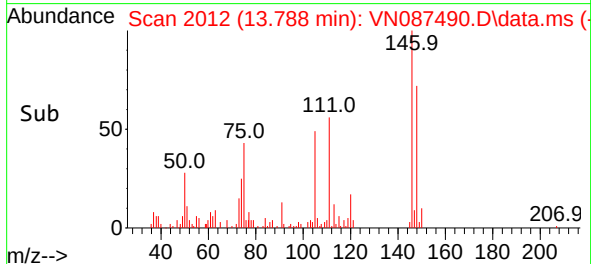
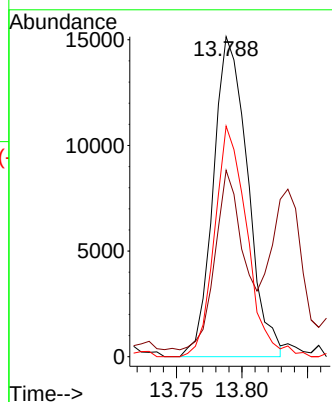
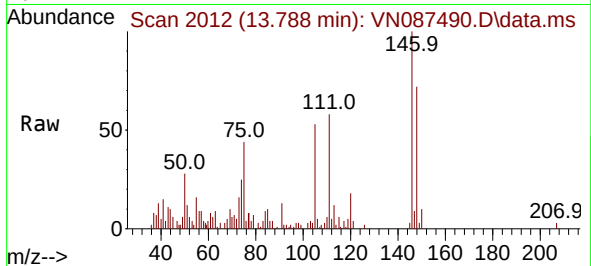




#84
1,4-Dichlorobenzene
Concen: 3.355 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Instrument :
MSVOA_N
ClientSampleId :
250806078-01 VOA

Tgt Ion:146 Resp: 27512
Ion Ratio Lower Upper
146 100
111 49.7 21.1 63.1
148 68.2 31.4 94.3



#91
Naphthalene
Concen: 20.854 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087490.D
Acq: 07 Aug 2025 13:31

Tgt Ion:128 Resp: 366881
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.9 8.9 13.3

