

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087386.D
 Acq On : 21 Jul 2025 17:29
 Operator : JC\MD
 Sample : Q2664-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GDW3

Quant Time: Jul 22 03:11:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

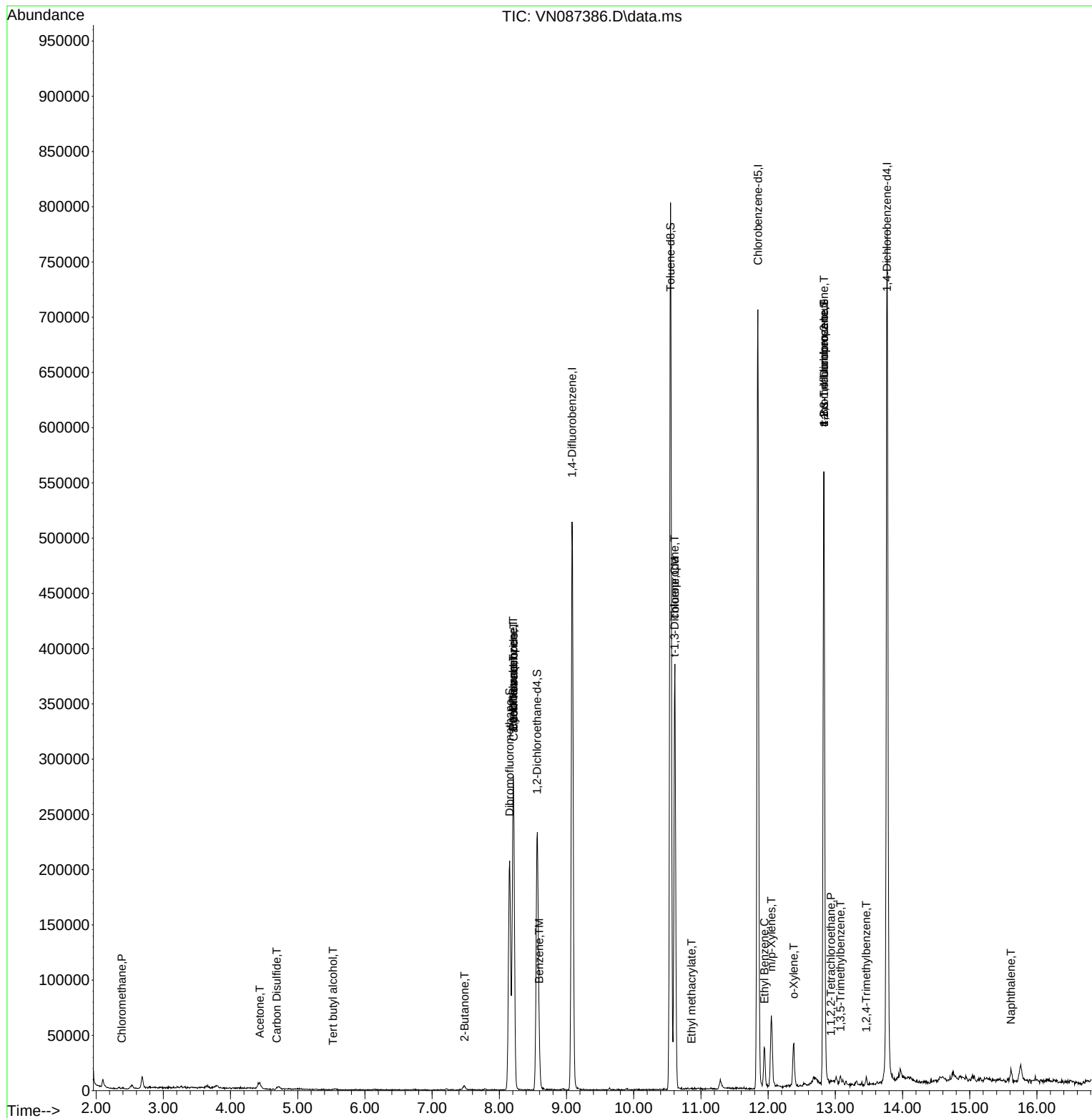
Internal Standards						
1) Pentafluorobenzene	8.206	168	203374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	426252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	398998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	197398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	193801	56.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.320%			
35) Dibromofluoromethane	8.154	113	146796	49.926	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.860%			
50) Toluene-d8	10.547	98	539733	51.460	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.920%			
62) 4-Bromofluorobenzene	12.830	95	195684	50.500	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.000%			
Target Compounds						Qvalue
3) Chloromethane	2.383	50	924	0.340	ug/l #	51
11) Tert butyl alcohol	5.524	59	523	0.798	ug/l #	72
16) Acetone	4.436	43	10329	6.384	ug/l	100
17) Carbon Disulfide	4.689	76	4408	0.640	ug/l #	71
20) Methylene Chloride	5.271	84	164	Below Cal	#	32
25) 2-Butanone	7.483	43	7512	3.005	ug/l #	88
31) Cyclohexane	8.206	56	5338	1.258	ug/l #	4
36) 1,1-Dichloropropene	8.206	75	17445	4.491	ug/l #	51
38) Carbon Tetrachloride	8.212	117	22258	5.201	ug/l #	15
40) Benzene	8.595	78	25936	2.066	ug/l	92
52) Toluene	10.612	92	160814	21.073	ug/l	95
53) t-1,3-Dichloropropene	10.606	75	2211	0.454	ug/l #	1
56) Ethyl methacrylate	10.859	69	54	0.645	ug/l #	1
67) Ethyl Benzene	11.947	91	26150	1.773	ug/l	100
68) m/p-Xylenes	12.047	106	20628	3.736	ug/l	98
69) o-Xylene	12.383	106	10584	2.007	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.936	83	980	0.210	ug/l #	34
76) 1,2,3-Trichloropropane	12.830	75	104602	23.631	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.077	105	5110	0.483	ug/l	77
81) trans-1,4-Dichloro-2-b...	12.830	75	104602	64.658	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.459	105	4473	0.414	ug/l	96
95) Naphthalene	15.612	128	9048	0.726	ug/l	97

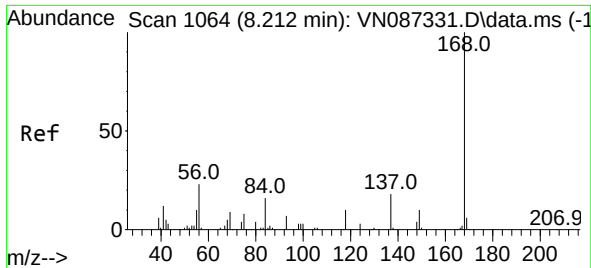
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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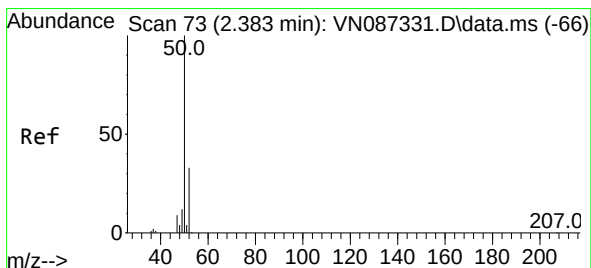
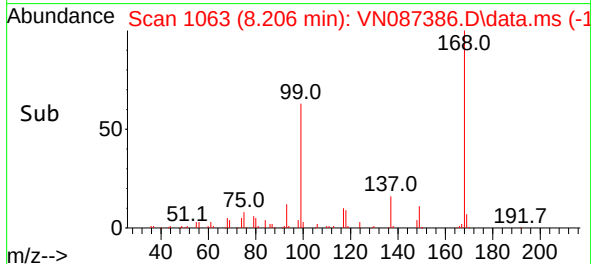
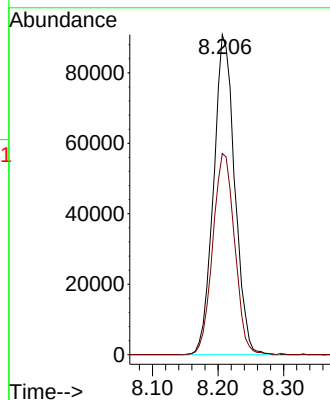
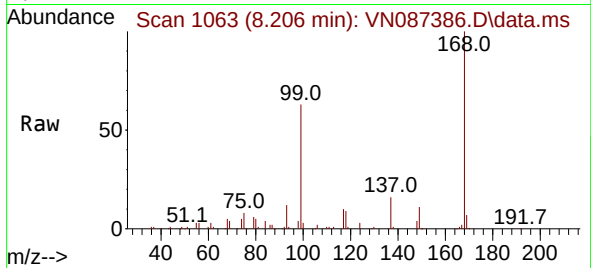




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

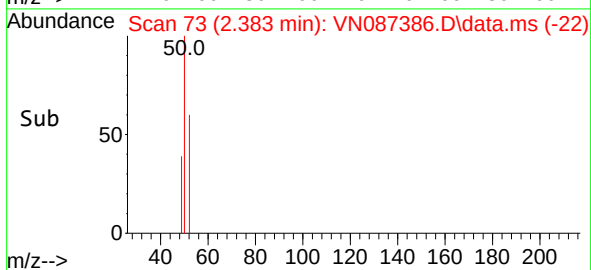
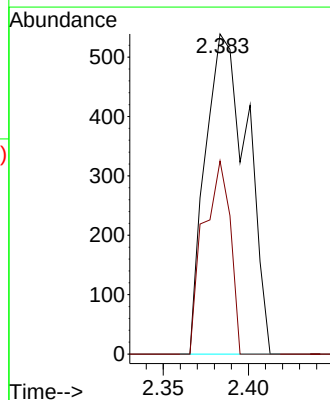
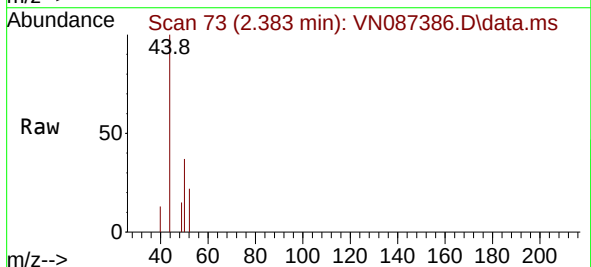
Instrument :
MSVOA_N
ClientSampleId :
GDW3

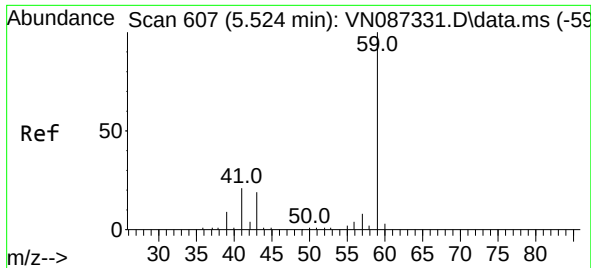
Tgt Ion:168 Resp: 203374
Ion Ratio Lower Upper
168 100
99 62.9 47.9 71.9



#3
Chloromethane
Concen: 0.340 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 50 Resp: 924
Ion Ratio Lower Upper
50 100
52 60.3 26.3 39.5#

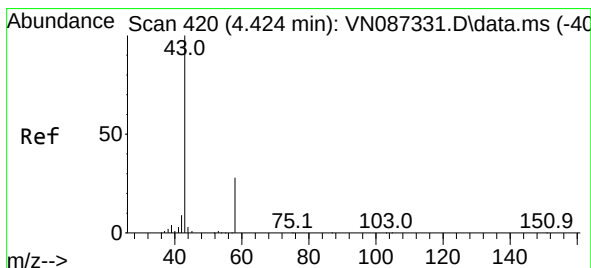
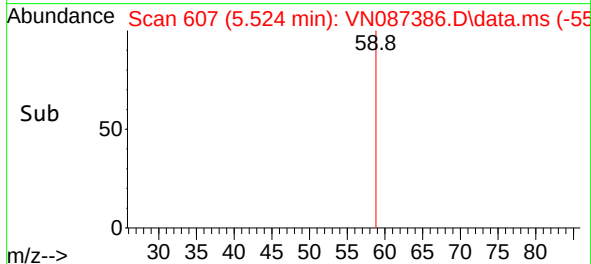
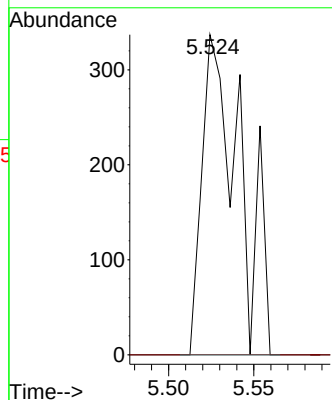
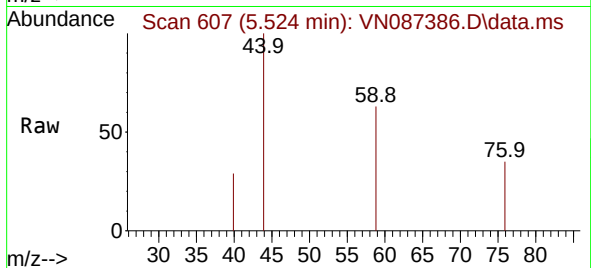




#11
Tert butyl alcohol
Concen: 0.798 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

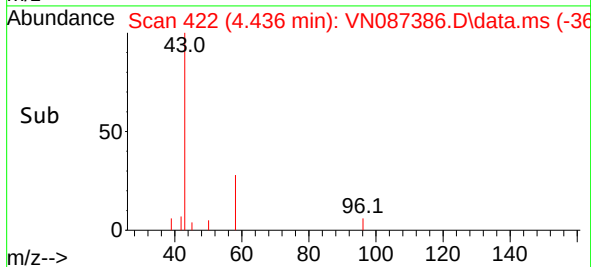
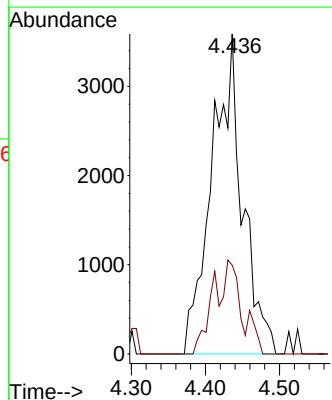
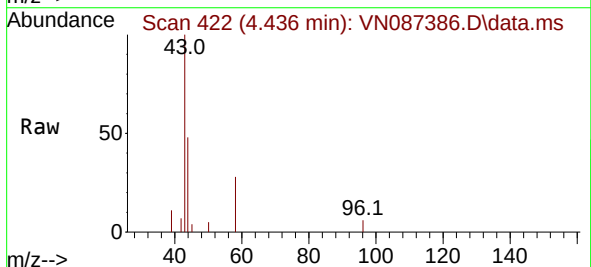
Instrument :
MSVOA_N
ClientSampleId :
GDW3

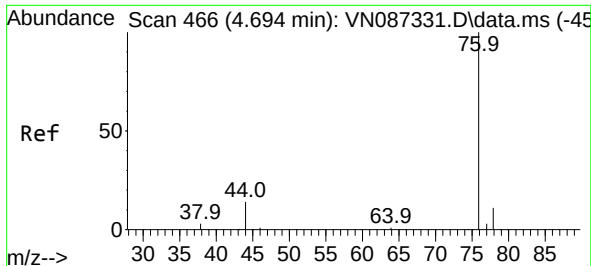
Tgt Ion: 59 Resp: 523
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 6.384 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 43 Resp: 10329
Ion Ratio Lower Upper
43 100
58 27.8 22.3 33.5

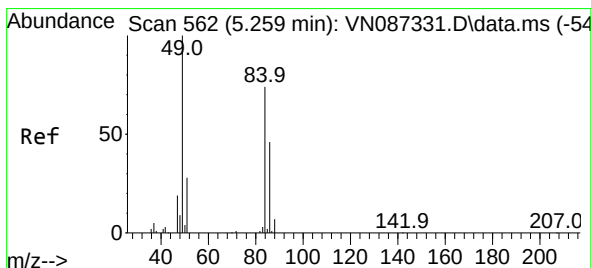
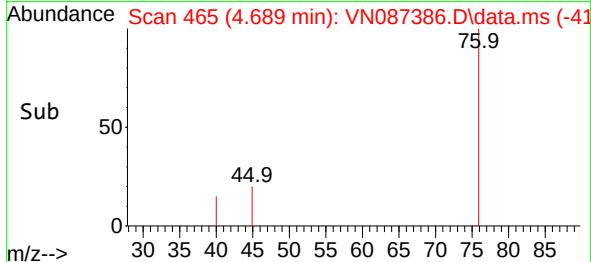
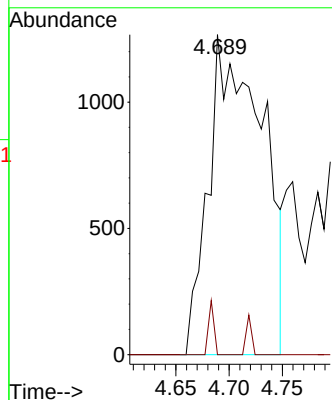
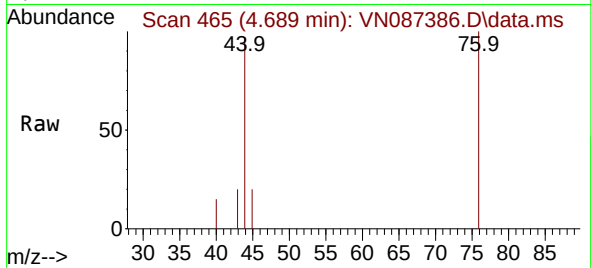




#17
Carbon Disulfide
Concen: 0.640 ug/l
RT: 4.689 min Scan# 41
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

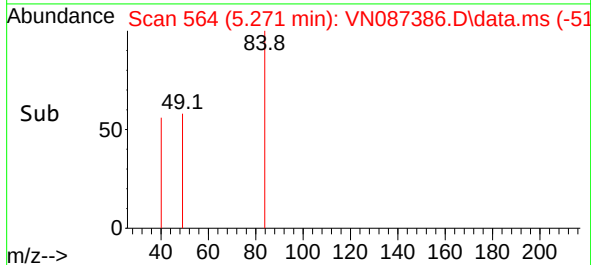
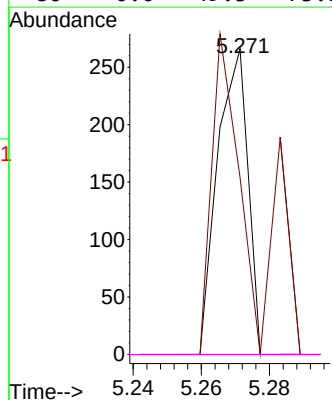
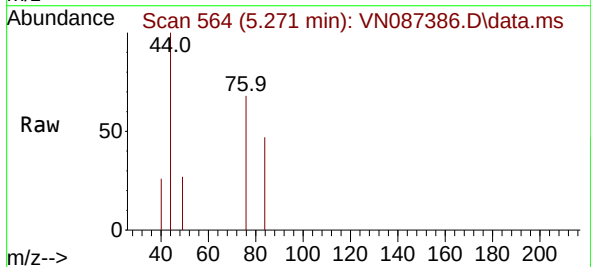
Instrument :
MSVOA_N
ClientSampleId :
GDW3

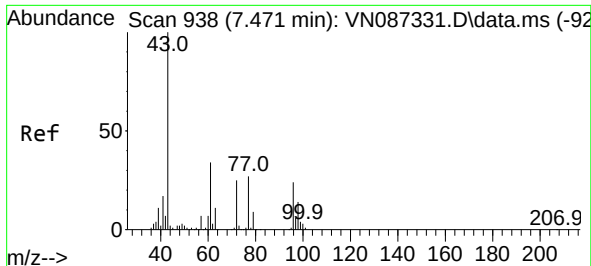
Tgt Ion: 76 Resp: 4408
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 564
Delta R.T. 0.012 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 84 Resp: 164
Ion Ratio Lower Upper
84 100
49 57.9 107.5 161.3#
51 0.0 30.2 45.2#
86 0.0 49.3 73.9#

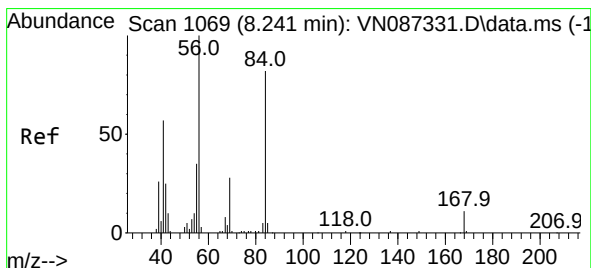
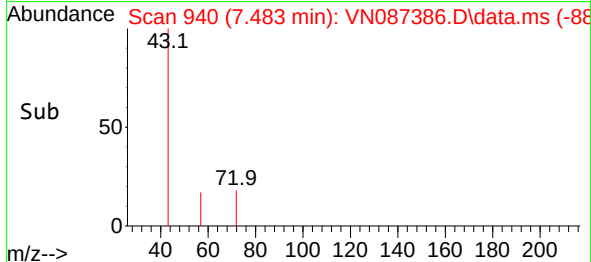
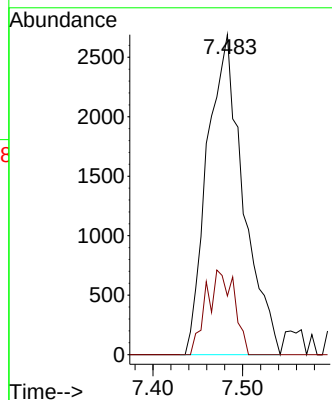
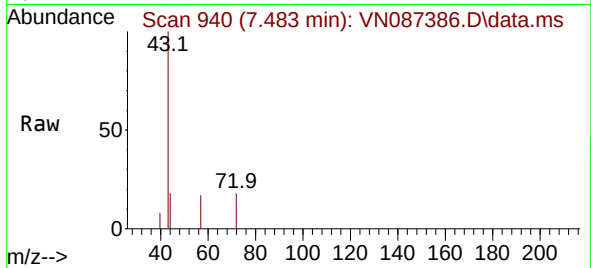




#25
2-Butanone
Concen: 3.005 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

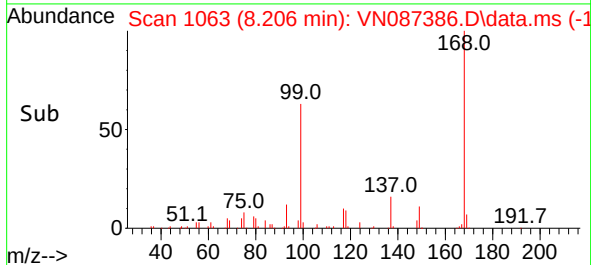
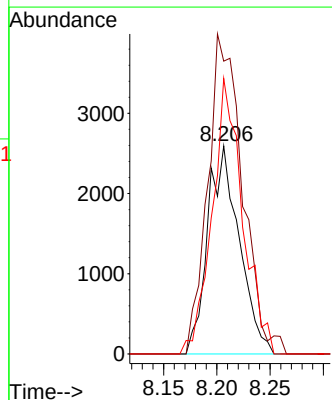
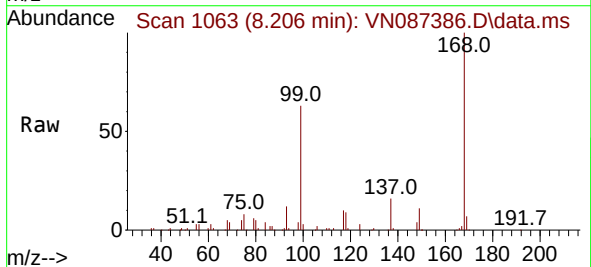
Instrument :
MSVOA_N
ClientSampleId :
GDW3

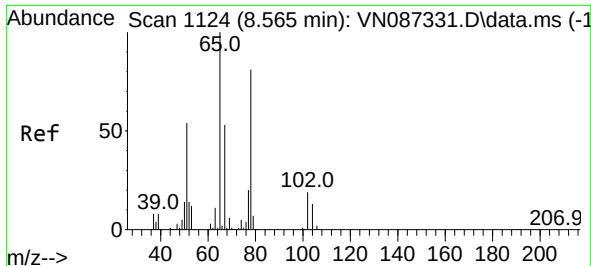
Tgt Ion: 43 Resp: 7512
Ion Ratio Lower Upper
43 100
72 18.4 19.6 29.4#



#31
Cyclohexane
Concen: 1.258 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 56 Resp: 5338
Ion Ratio Lower Upper
56 100
69 140.7 22.7 34.1#
84 132.5 65.8 98.6#





#33

1,2-Dichloroethane-d4

Concen: 56.161 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.005 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

Instrument :

MSVOA_N

ClientSampleId :

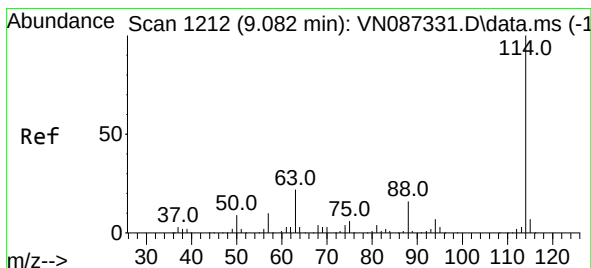
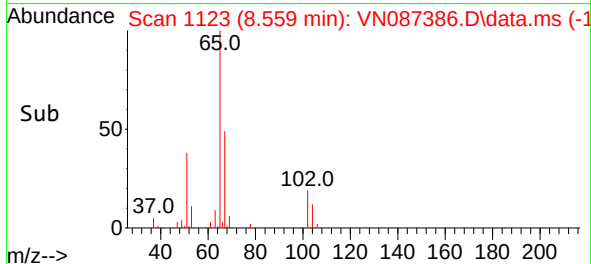
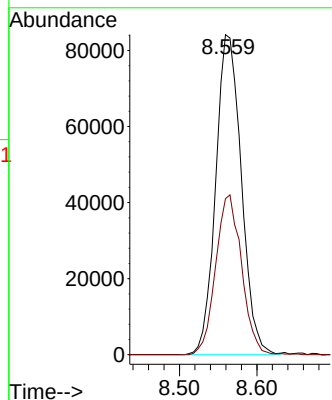
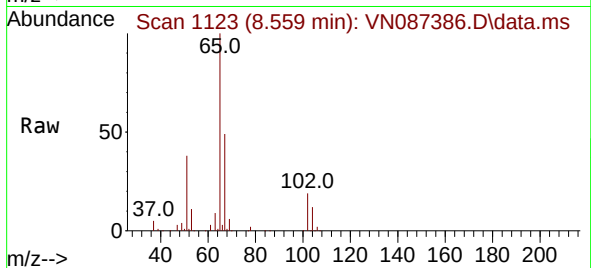
GDW3

Tgt Ion: 65 Resp: 193801

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.001 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

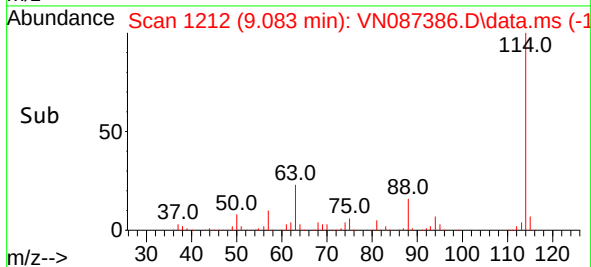
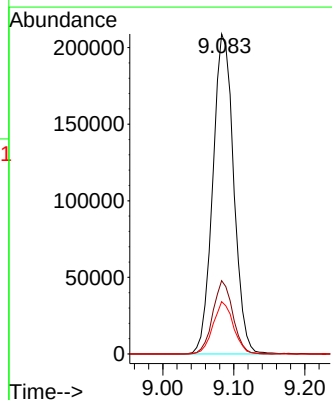
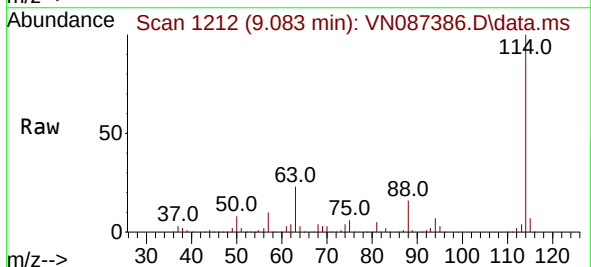
Tgt Ion: 114 Resp: 426252

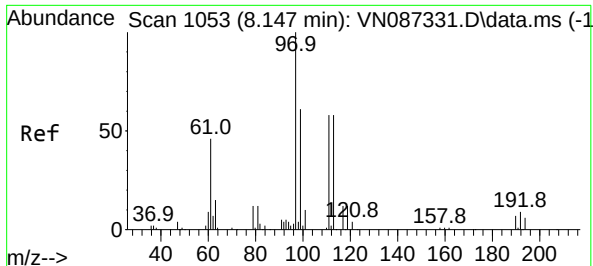
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.926 ug/l

RT: 8.154 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

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ClientSampleId :

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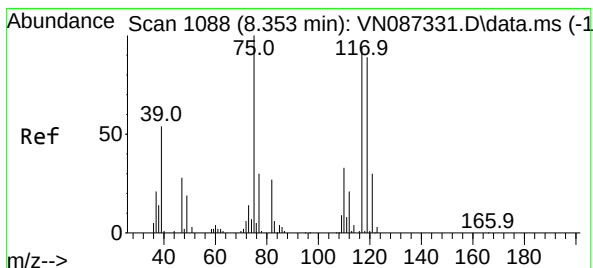
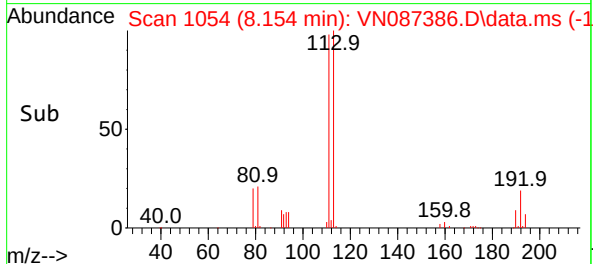
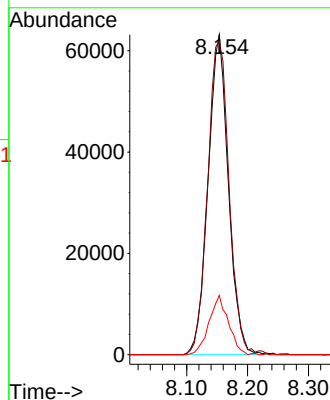
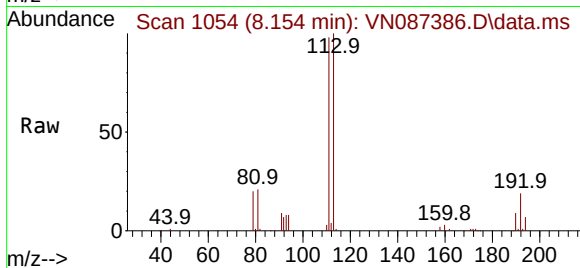
Tgt Ion:113 Resp: 146796

Ion Ratio Lower Upper

113 100

111 103.6 82.5 123.7

192 17.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.491 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

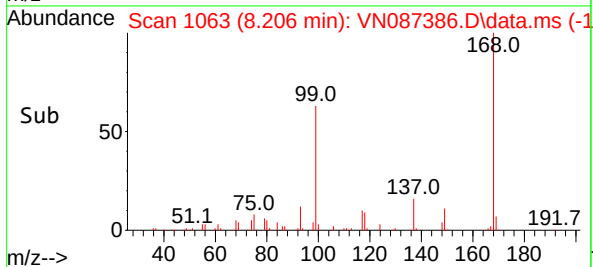
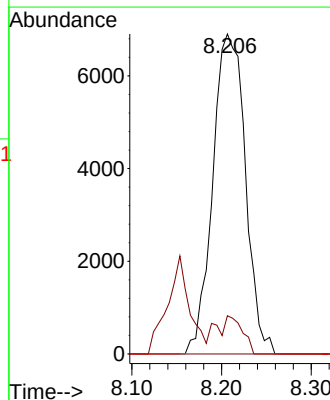
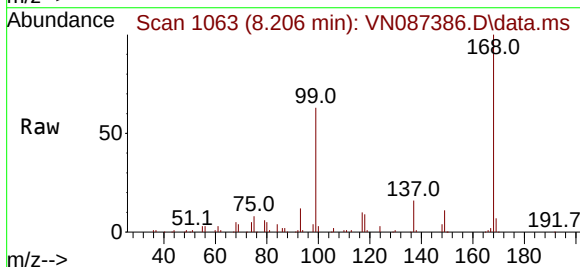
Tgt Ion: 75 Resp: 17445

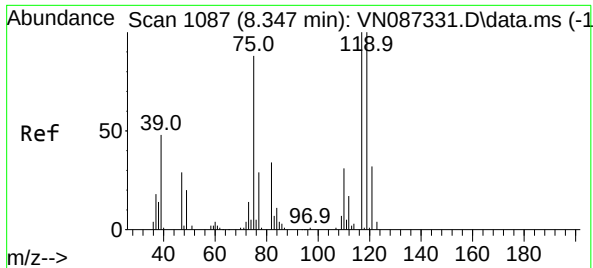
Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.1#

77 0.0 25.2 37.8#

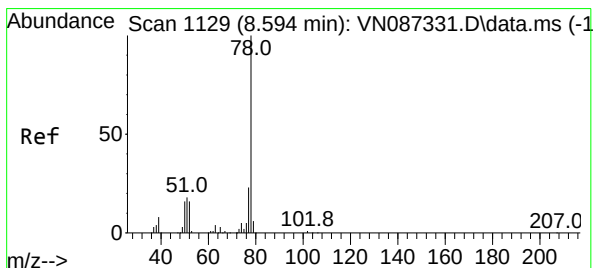
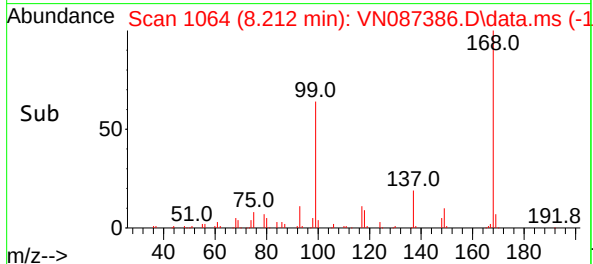
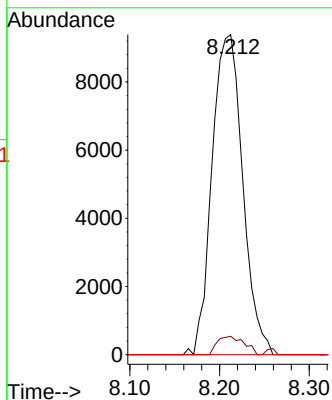
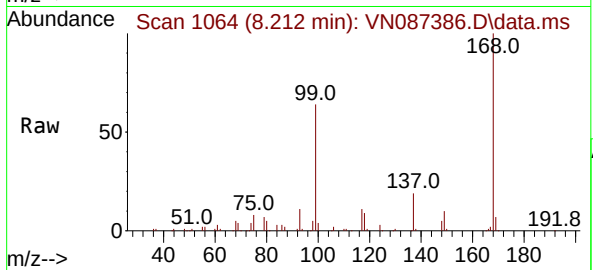




#38
Carbon Tetrachloride
Concen: 5.201 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

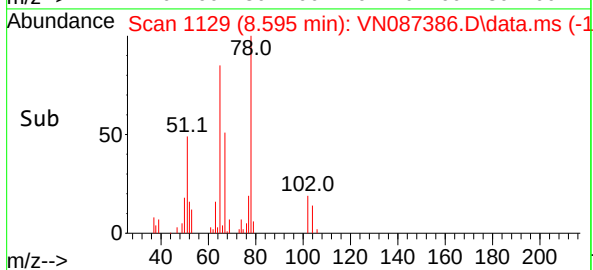
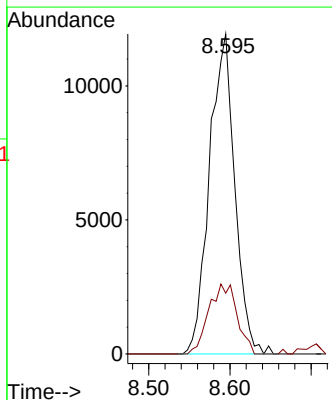
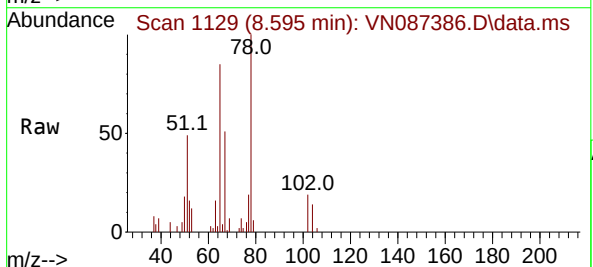
Instrument :
MSVOA_N
ClientSampleId :
GDW3

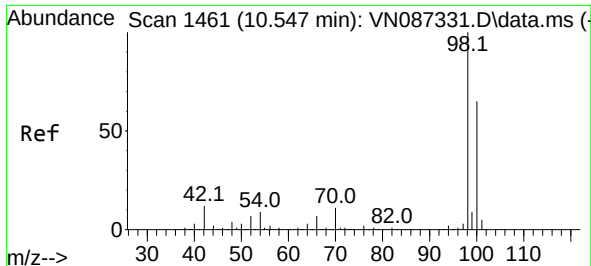
Tgt Ion:117 Resp: 22258
Ion Ratio Lower Upper
117 100
119 5.8 80.2 120.2#
121 0.0 25.4 38.2#



#40
Benzene
Concen: 2.066 ug/l
RT: 8.595 min Scan# 1129
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 78 Resp: 25936
Ion Ratio Lower Upper
78 100
77 19.0 18.2 27.2

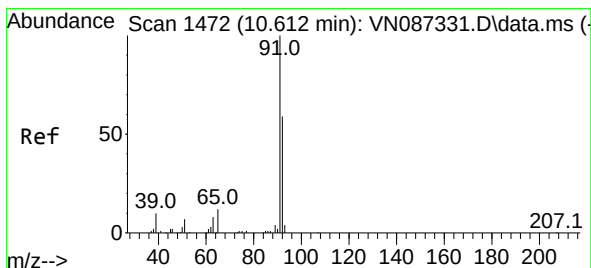
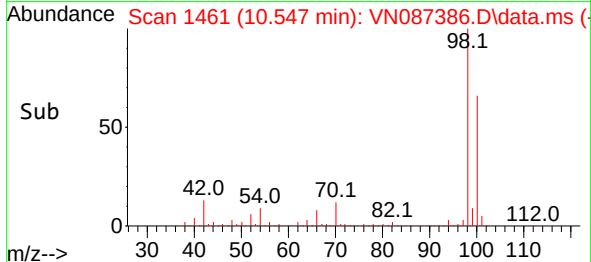
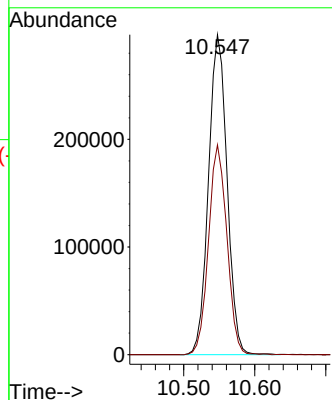
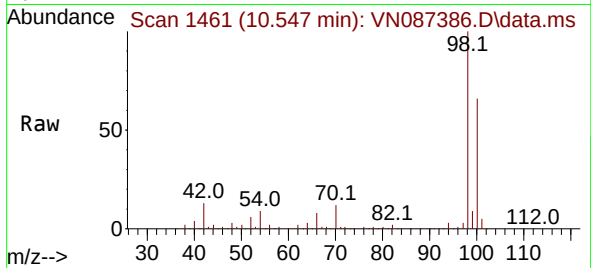




#50
Toluene-d8
Concen: 51.460 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

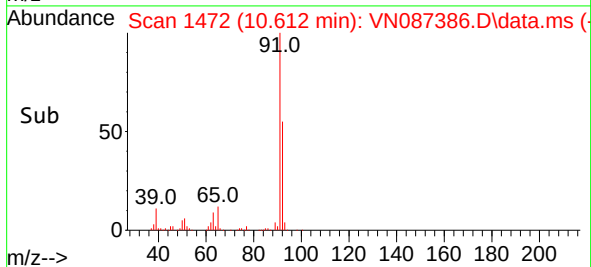
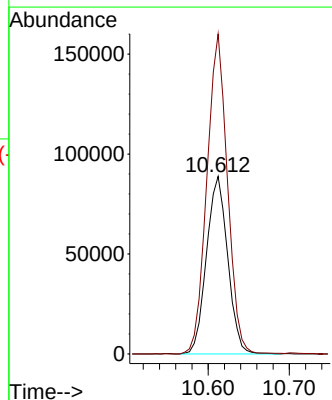
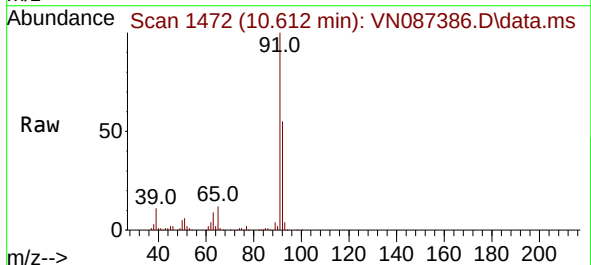
Instrument :
MSVOA_N
ClientSampleId :
GDW3

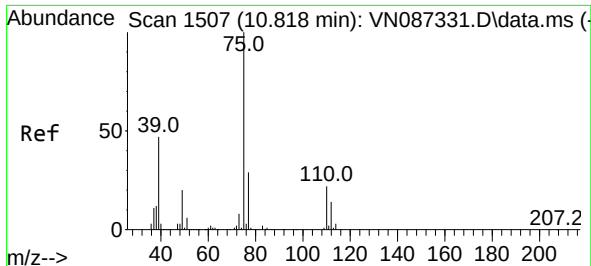
Tgt Ion: 98 Resp: 539733
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



#52
Toluene
Concen: 21.073 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 92 Resp: 160814
Ion Ratio Lower Upper
92 100
91 175.2 135.1 202.7

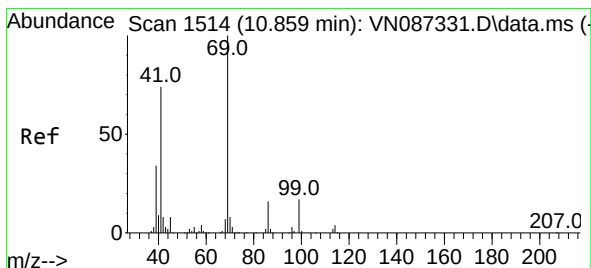
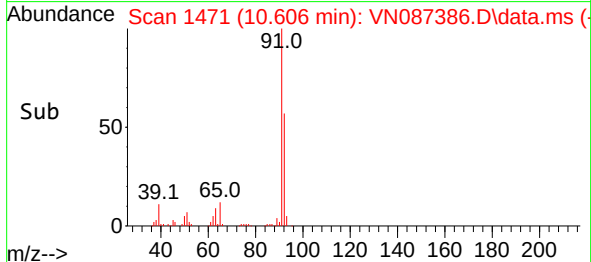
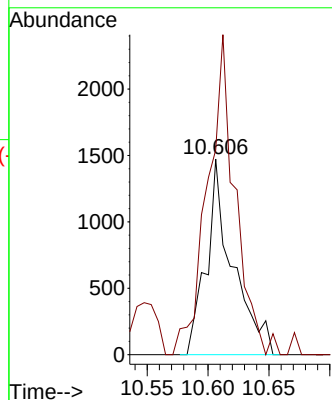
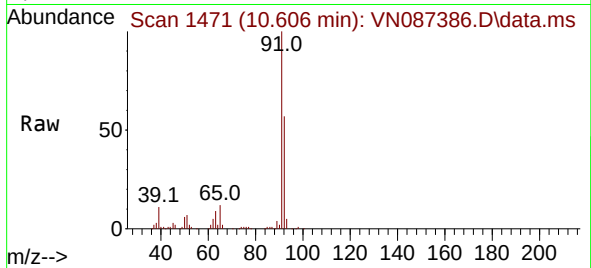




#53
t-1,3-Dichloropropene
Concen: 0.454 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.212 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

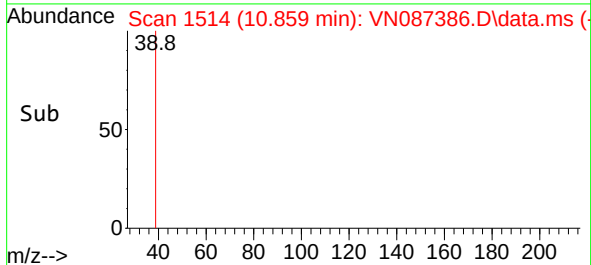
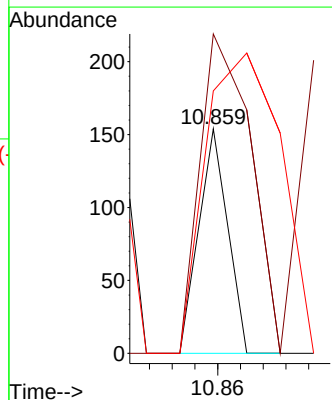
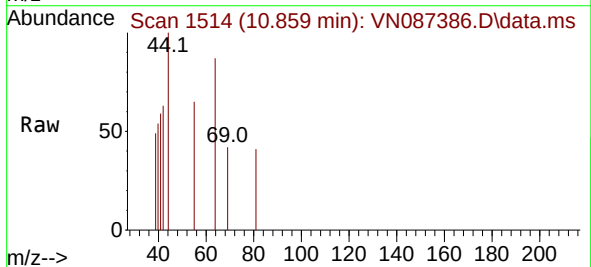
Instrument :
MSVOA_N
ClientSampleId :
GDW3

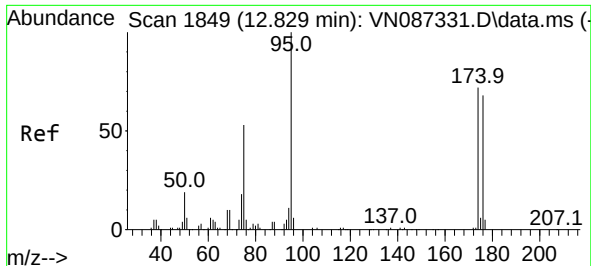
Tgt Ion: 75 Resp: 2211
Ion Ratio Lower Upper
75 100
77 104.7 23.6 35.4#



#56
Ethyl methacrylate
Concen: 0.645 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 69 Resp: 54
Ion Ratio Lower Upper
69 100
41 251.9 55.1 82.7#
39 0.0 27.9 41.9#

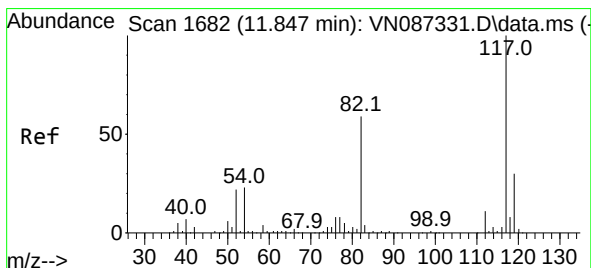
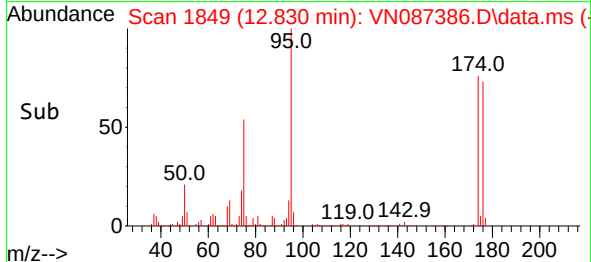
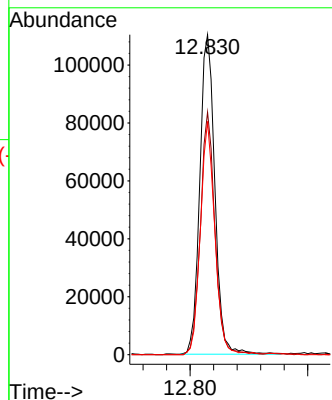
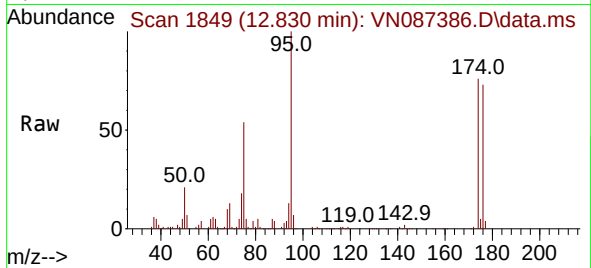




#62
4-Bromofluorobenzene
Concen: 50.500 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

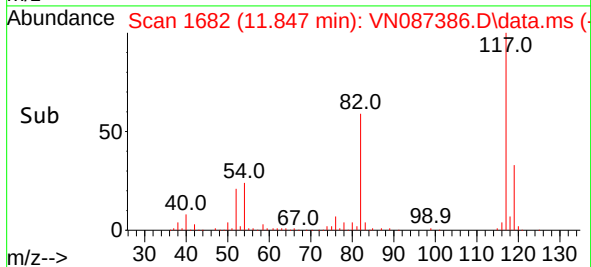
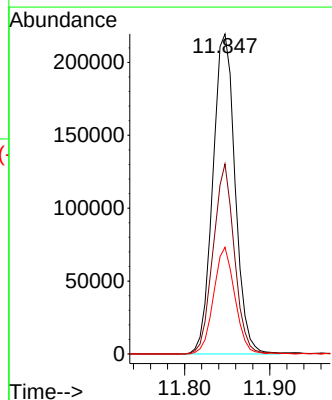
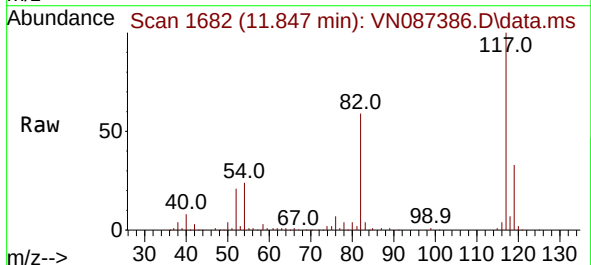
Instrument :
MSVOA_N
ClientSampleId :
GDW3

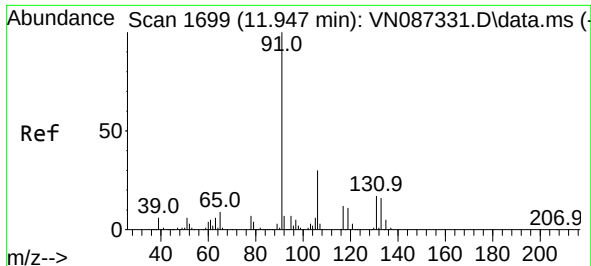
Tgt Ion: 95 Resp: 195684
Ion Ratio Lower Upper
95 100
174 73.4 0.0 149.4
176 70.0 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 117 Resp: 398998
Ion Ratio Lower Upper
117 100
82 59.4 47.4 71.2
119 33.4 23.8 35.8

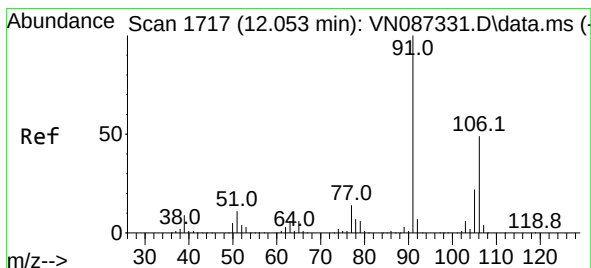
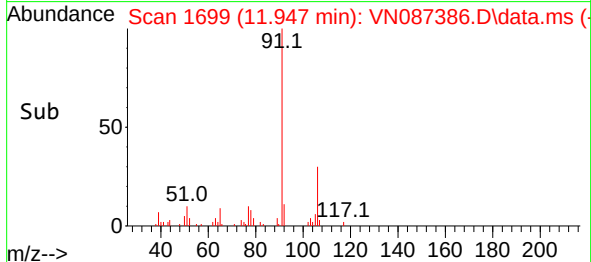
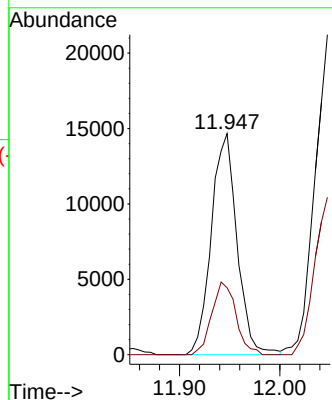
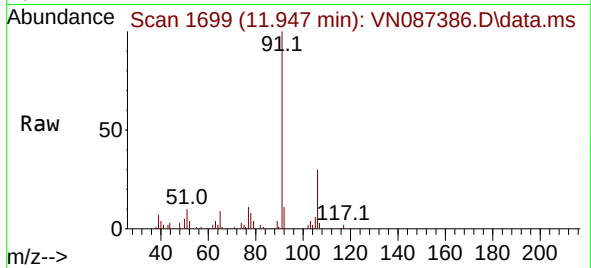




#67
Ethyl Benzene
Concen: 1.773 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

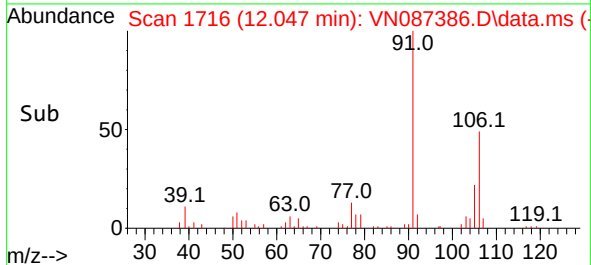
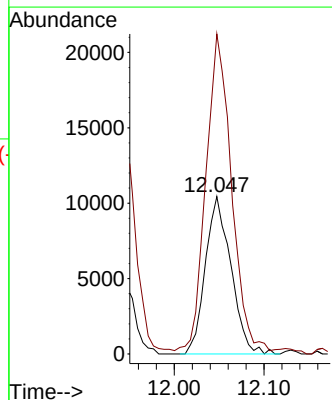
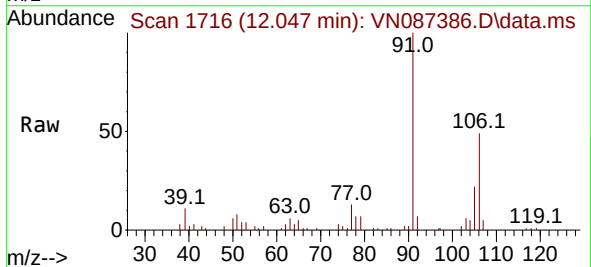
Instrument :
MSVOA_N
ClientSampleId :
GDW3

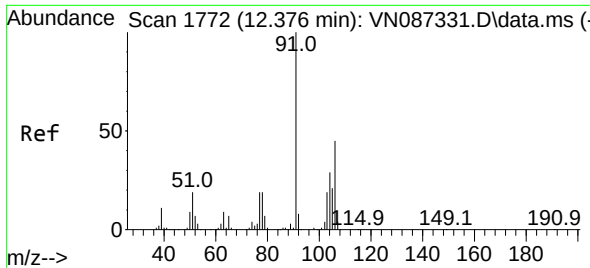
Tgt Ion: 91 Resp: 26150
Ion Ratio Lower Upper
91 100
106 30.2 24.3 36.5



#68
m/p-Xylenes
Concen: 3.736 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 106 Resp: 20628
Ion Ratio Lower Upper
106 100
91 199.9 162.0 243.0

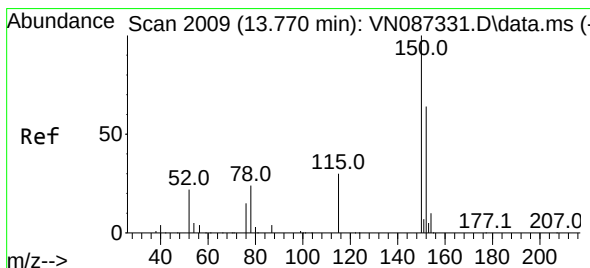
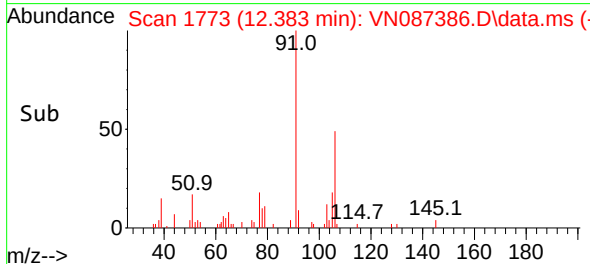
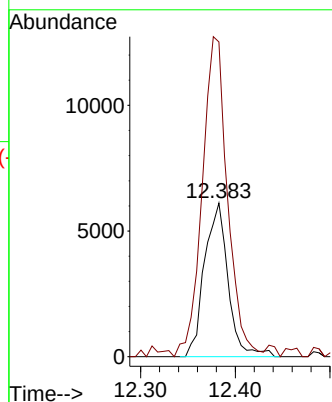
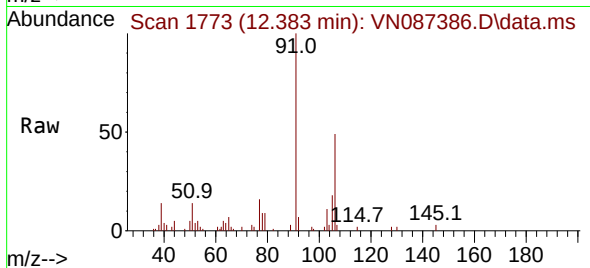




#69
o-Xylene
Concen: 2.007 ug/l
RT: 12.383 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

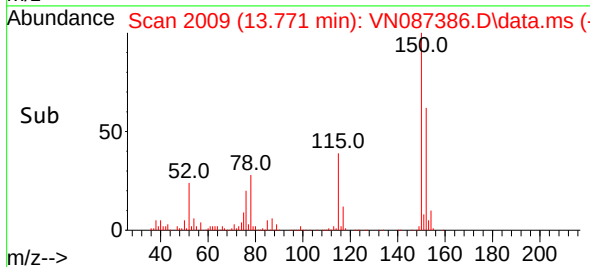
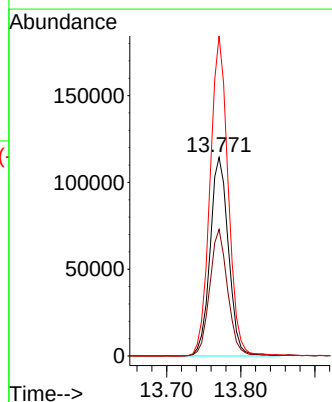
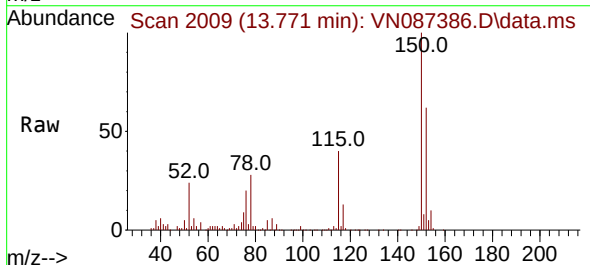
Instrument :
MSVOA_N
ClientSampleId :
GDW3

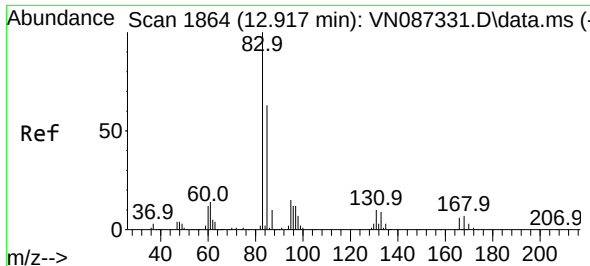
Tgt Ion:106 Resp: 10584
Ion Ratio Lower Upper
106 100
91 223.5 107.7 323.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion:152 Resp: 197398
Ion Ratio Lower Upper
152 100
115 62.4 31.1 93.5
150 158.8 0.0 349.0

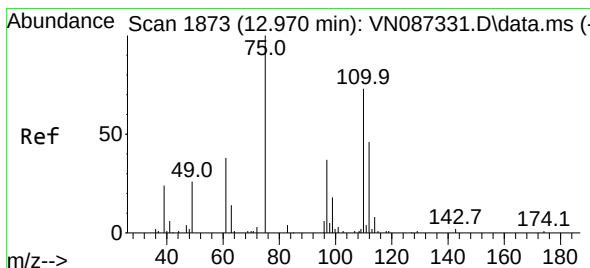
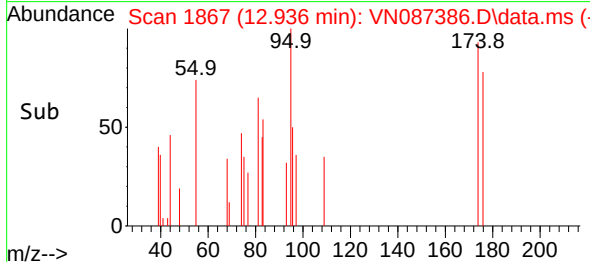
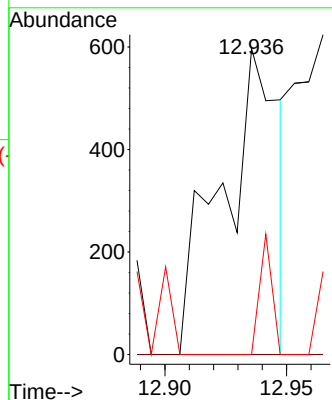
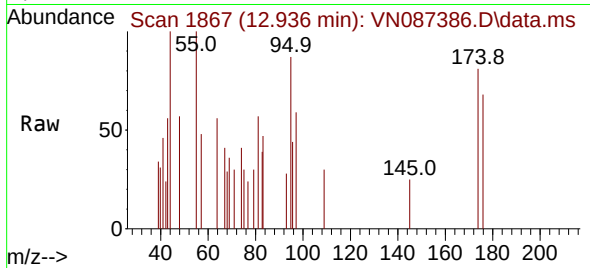




#75
1,1,2,2-Tetrachloroethane
Concen: 0.210 ug/l
RT: 12.936 min Scan# 1849
Delta R.T. 0.018 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

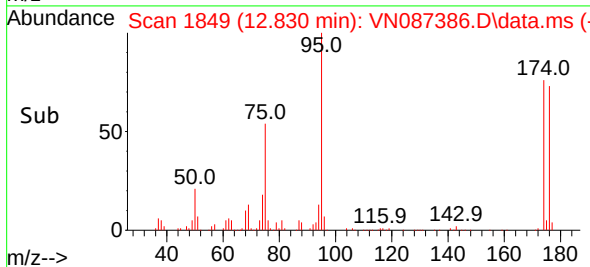
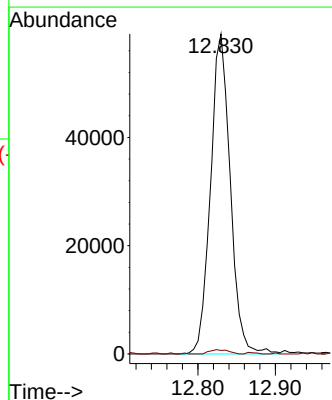
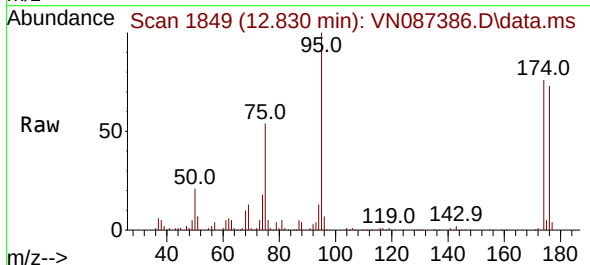
Instrument :
MSVOA_N
ClientSampleId :
GDW3

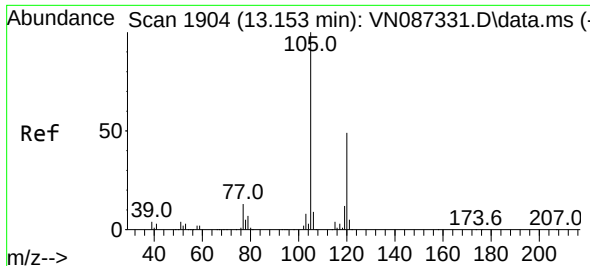
Tgt Ion: 83 Resp: 980
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 8.5 32.5 97.4#



#76
1,2,3-Trichloropropane
Concen: 23.631 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 75 Resp: 104602
Ion Ratio Lower Upper
75 100
77 1.3 94.5 283.6#

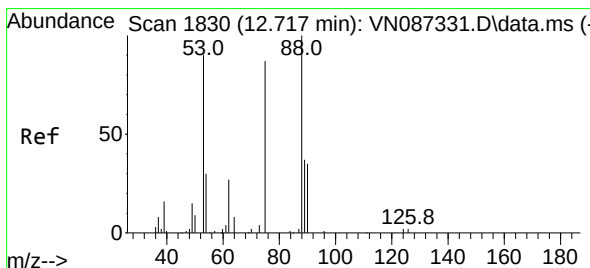
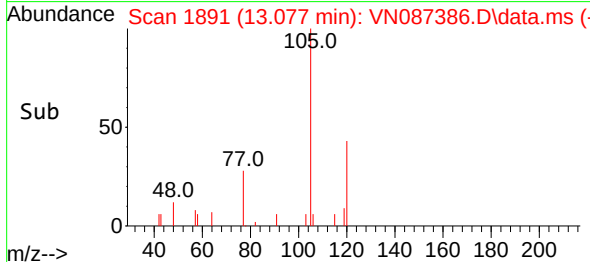
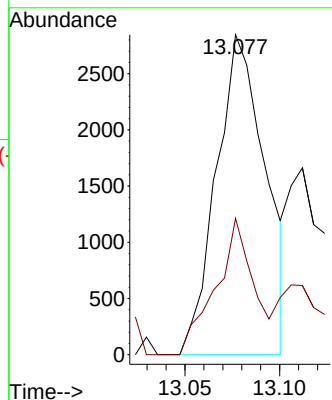
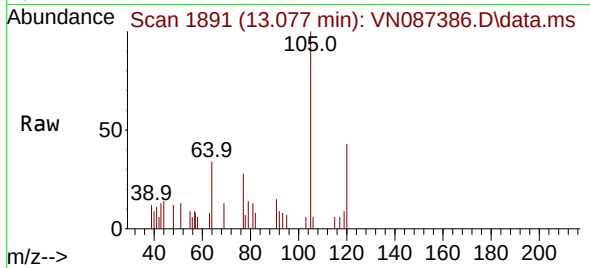




#80
1,3,5-Trimethylbenzene
Concen: 0.483 ug/l
RT: 13.077 min Scan# 1891
Delta R.T. -0.076 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

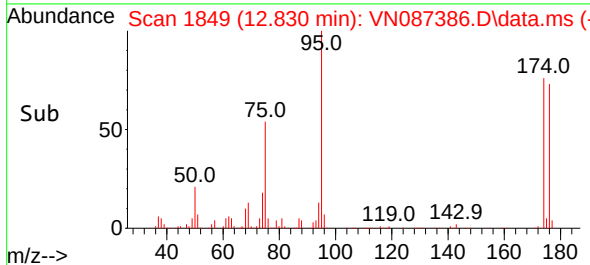
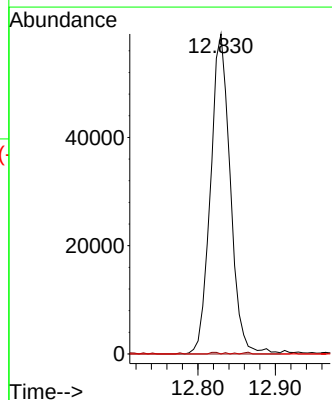
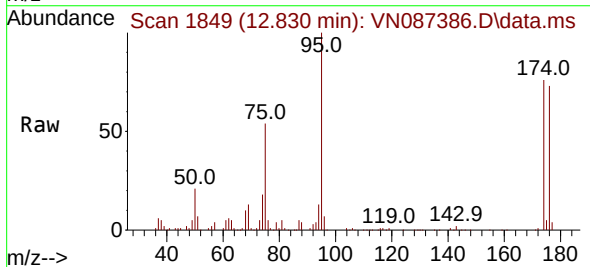
Instrument :
MSVOA_N
ClientSampleId :
GDW3

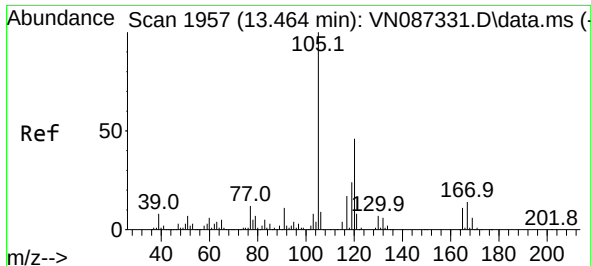
Tgt Ion:105 Resp: 5110
Ion Ratio Lower Upper
105 100
120 32.9 24.3 72.8



#81
trans-1,4-Dichloro-2-butene
Concen: 64.658 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 75 Resp: 104602
Ion Ratio Lower Upper
75 100
53 0.2 83.5 125.3#
89 0.0 38.4 57.6#

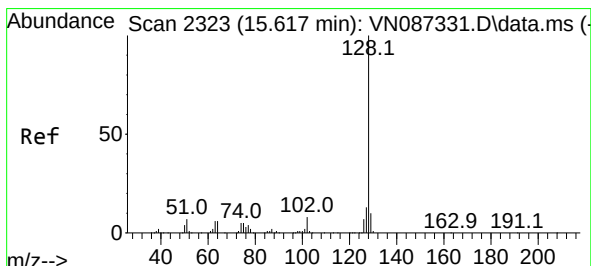
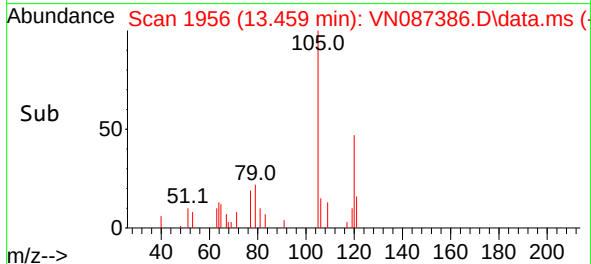
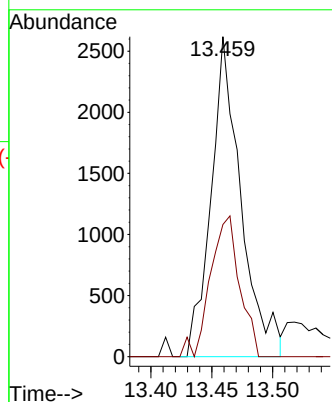
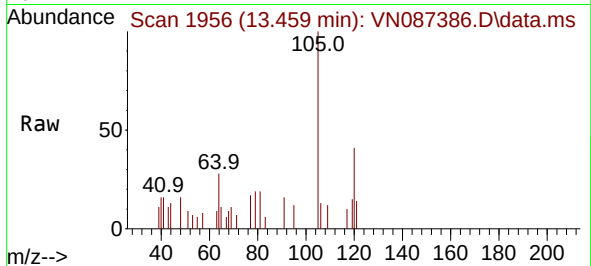




#84
1,2,4-Trimethylbenzene
Concen: 0.414 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Instrument :
MSVOA_N
ClientSampleId :
GDW3

Tgt Ion:105 Resp: 4473
Ion Ratio Lower Upper
105 100
120 43.0 22.8 68.3



#95
Naphthalene
Concen: 0.726 ug/l
RT: 15.612 min Scan# 2322
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion:128 Resp: 9048
Ion Ratio Lower Upper
128 100
127 12.3 10.5 15.7
129 12.0 8.4 12.6

