

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
 Data File : VN087290.D
 Acq On : 07 Jul 2025 13:26
 Operator : JC\MD
 Sample : Q2487-24
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G1(10)

Quant Time: Jul 08 01:33:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

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

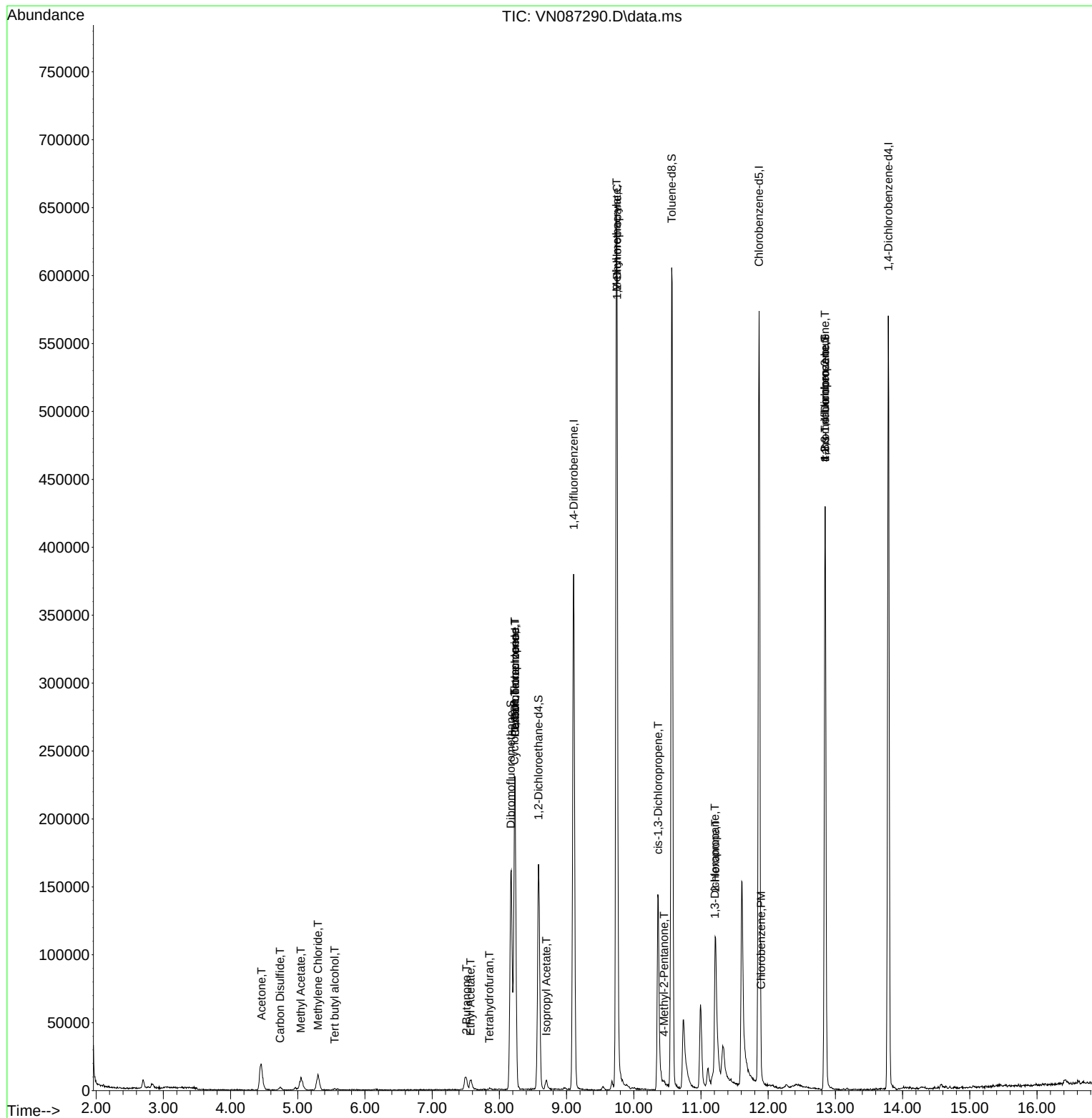
Internal Standards						
1) Pentafluorobenzene	8.235	168	183726	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	344094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	347071	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162085	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	135111	58.594	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 117.180%	
35) Dibromofluoromethane	8.171	113	118472	53.771	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.540%	
50) Toluene-d8	10.565	98	435637	50.727	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.460%	
62) 4-Bromofluorobenzene	12.847	95	149744	49.006	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.020%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.547	59	870	2.070	ug/l #	72
16) Acetone	4.459	43	39002	44.242	ug/l	99
17) Carbon Disulfide	4.736	76	2786	0.544	ug/l #	76
18) Methyl Acetate	5.047	43	18885	9.358	ug/l	95
20) Methylene Chloride	5.300	84	9016	4.617	ug/l #	89
25) 2-Butanone	7.512	43	16504	11.980	ug/l #	75
29) Tetrahydrofuran	7.853	42	602	0.678	ug/l #	32
31) Cyclohexane	8.224	56	3376	1.075	ug/l #	20
36) 1,1-Dichloropropene	8.229	75	12889	4.302	ug/l #	49
37) Ethyl Acetate	7.571	43	13513	4.195	ug/l #	89
38) Carbon Tetrachloride	8.235	117	17508	5.157	ug/l #	15
43) Isopropyl Acetate	8.700	43	8184	1.638	ug/l #	85
45) 1,2-Dichloropropane	9.753	63	801	0.396	ug/l #	45
48) Methyl methacrylate	9.747	41	65018	30.884	ug/l #	35
51) 4-Methyl-2-Pentanone	10.453	43	2913	0.953	ug/l	88
54) cis-1,3-Dichloropropene	10.365	75	32595	9.083	ug/l #	60
57) 1,3-Dichloropropane	11.206	76	1832	0.488	ug/l #	41
59) 2-Hexanone	11.212	43	19450	8.885	ug/l	64
65) Chlorobenzene	11.894	112	2060	0.265	ug/l	93
76) 1,2,3-Trichloropropane	12.847	75	75164	24.380	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75164	57.267	ug/l #	14

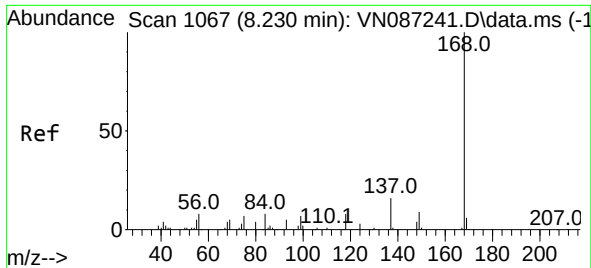
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

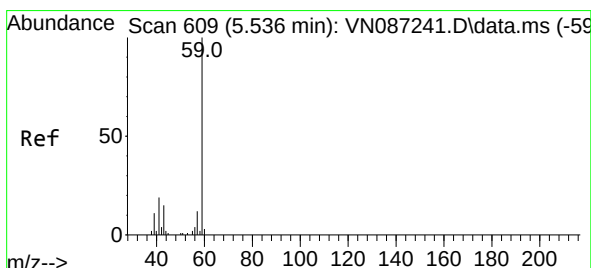
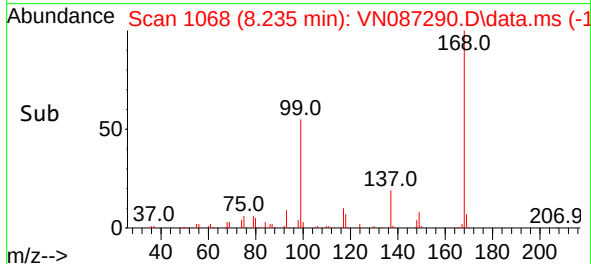
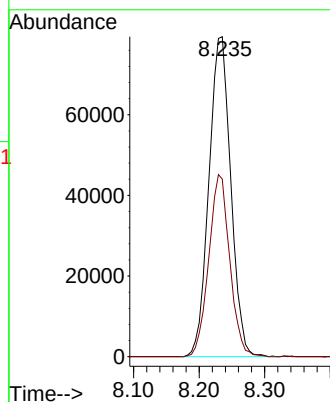
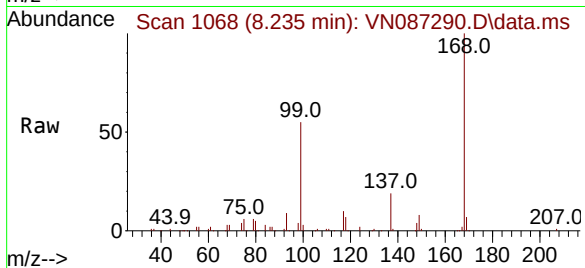




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

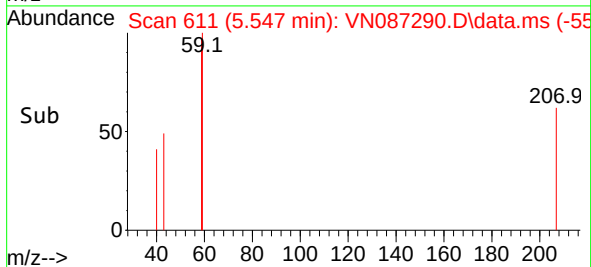
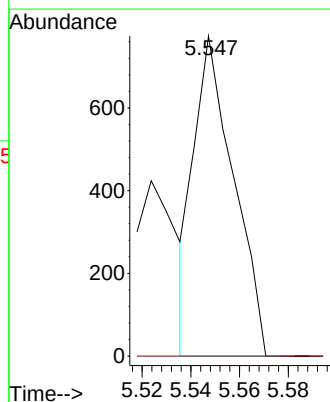
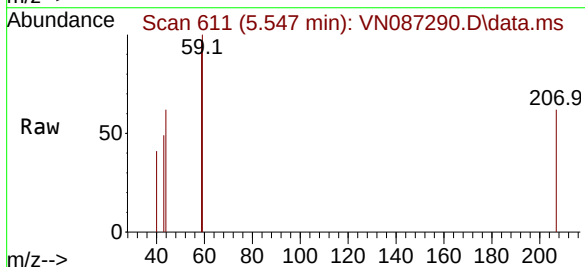
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

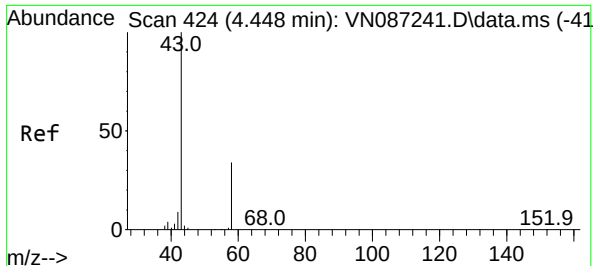
Tgt Ion:168 Resp: 183726
Ion Ratio Lower Upper
168 100
99 55.5 42.6 64.0



#11
Tert butyl alcohol
Concen: 2.070 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 59 Resp: 870
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

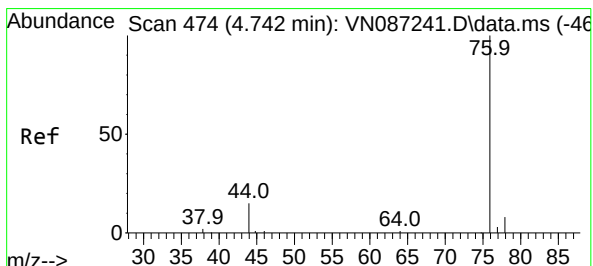
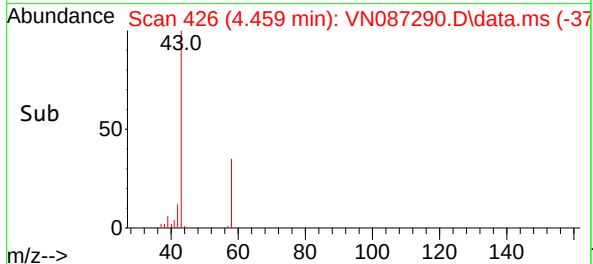
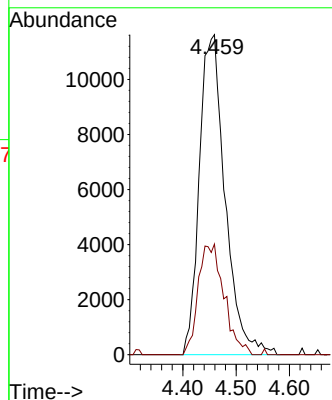
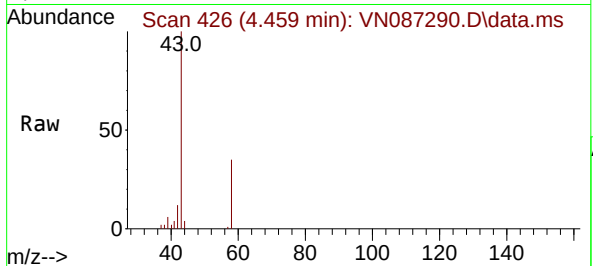




#16
Acetone
Concen: 44.242 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

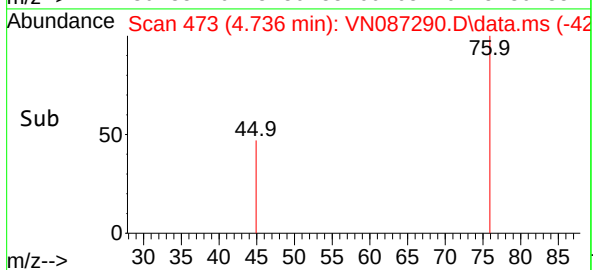
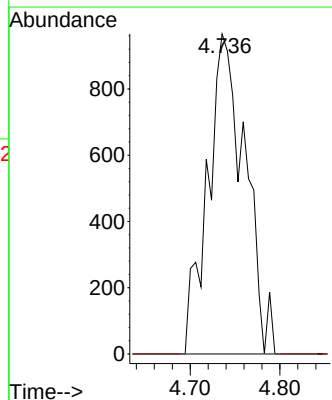
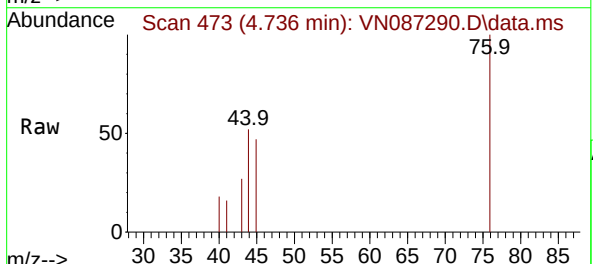
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

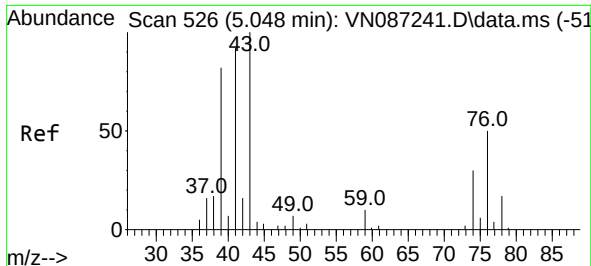
Tgt Ion: 43 Resp: 39002
Ion Ratio Lower Upper
43 100
58 34.5 27.1 40.7



#17
Carbon Disulfide
Concen: 0.544 ug/l
RT: 4.736 min Scan# 473
Delta R.T. -0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 76 Resp: 2786
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

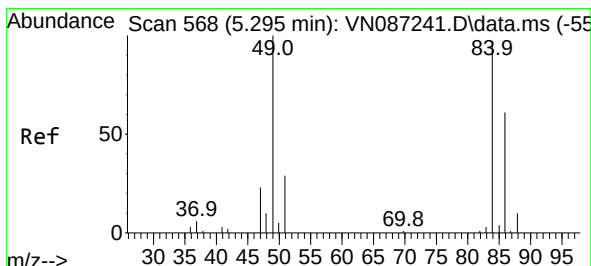
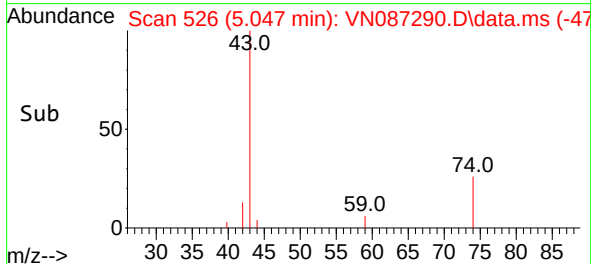
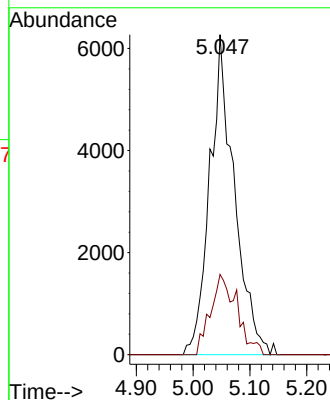
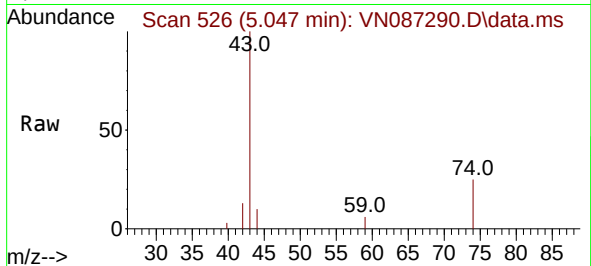




#18
Methyl Acetate
Concen: 9.358 ug/l
RT: 5.047 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

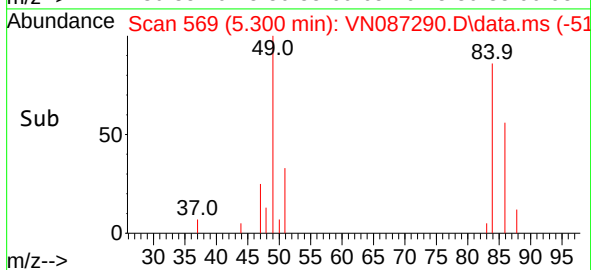
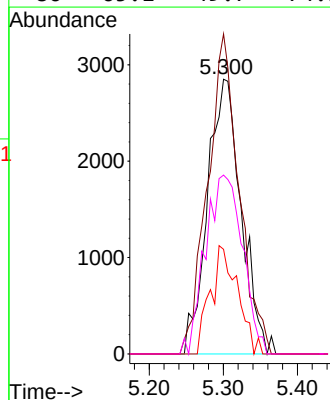
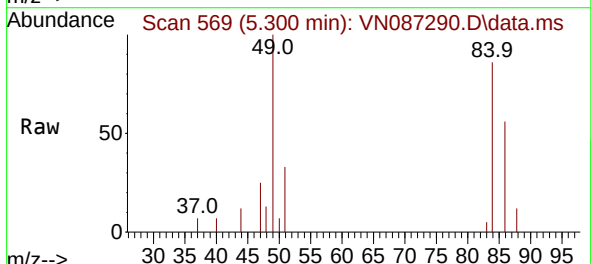
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

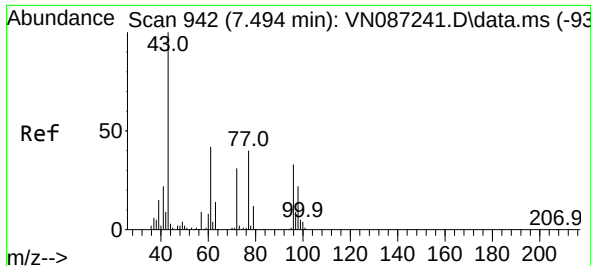
Tgt Ion: 43 Resp: 18885
Ion Ratio Lower Upper
43 100
74 27.0 23.8 35.6



#20
Methylene Chloride
Concen: 4.617 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 84 Resp: 9016
Ion Ratio Lower Upper
84 100
49 116.5 82.1 123.1
51 38.1 23.5 35.3#
86 65.1 49.7 74.5

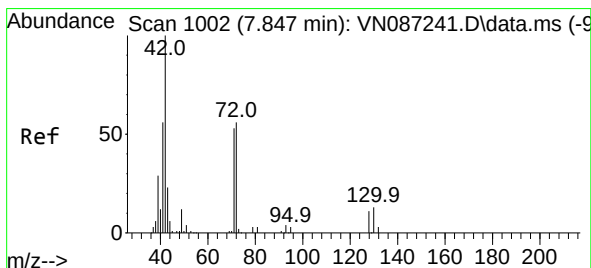
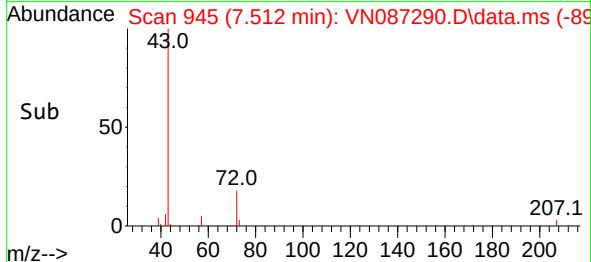
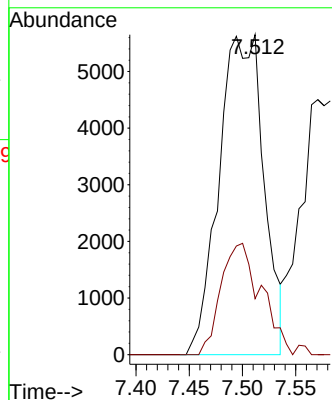
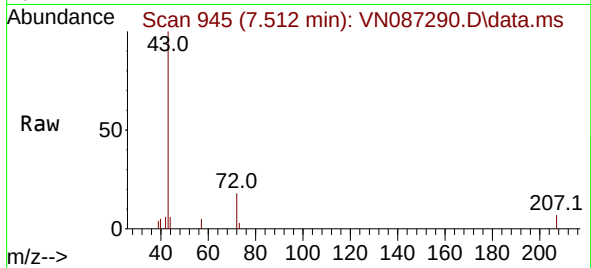




#25
2-Butanone
Concen: 11.980 ug/l
RT: 7.512 min Scan# 94
Delta R.T. 0.017 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

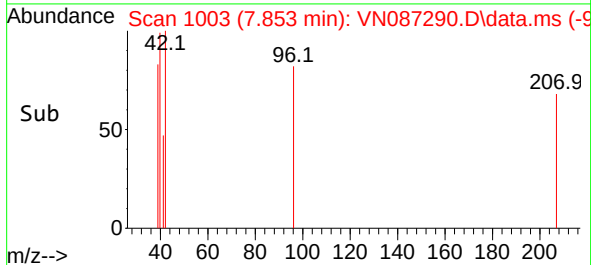
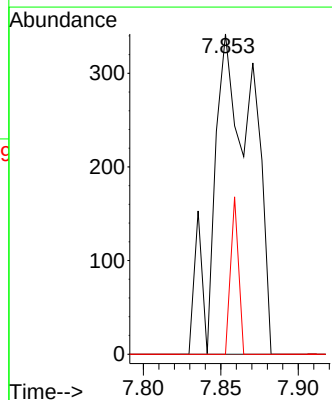
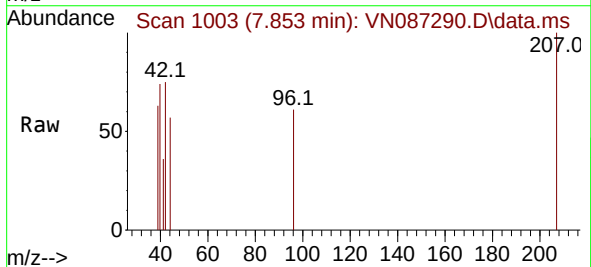
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

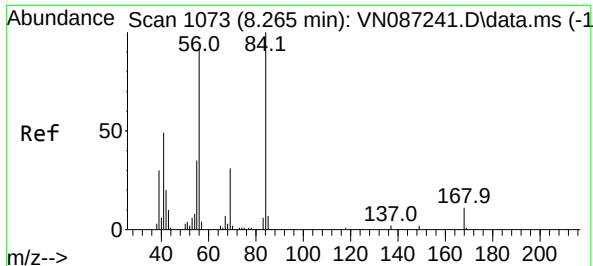
Tgt Ion: 43 Resp: 16504
Ion Ratio Lower Upper
43 100
72 17.5 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.678 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 42 Resp: 602
Ion Ratio Lower Upper
42 100
72 0.0 44.2 66.4#
71 9.8 41.1 61.7#

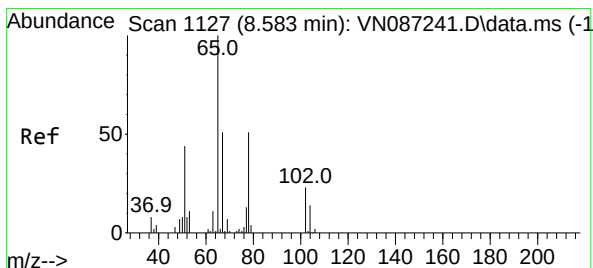
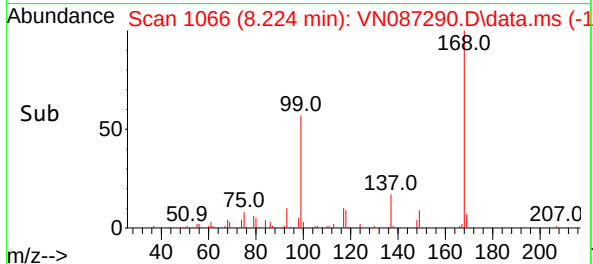
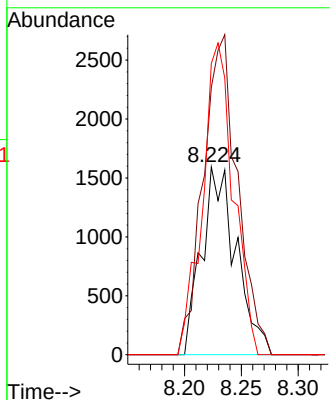
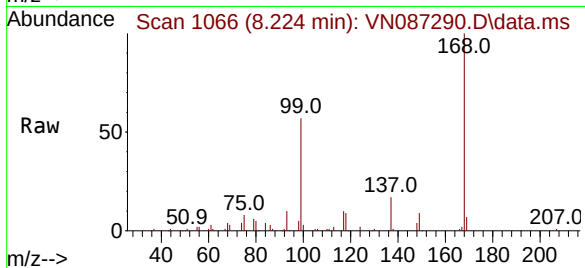




#31
Cyclohexane
Concen: 1.075 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

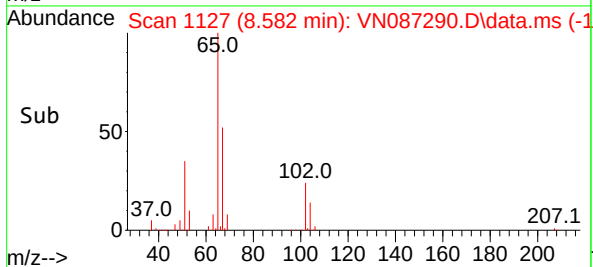
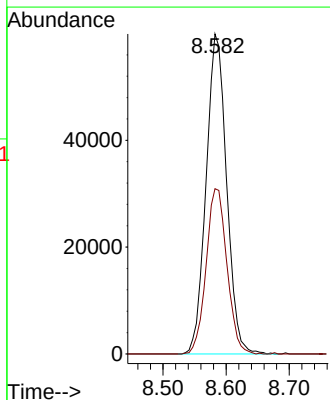
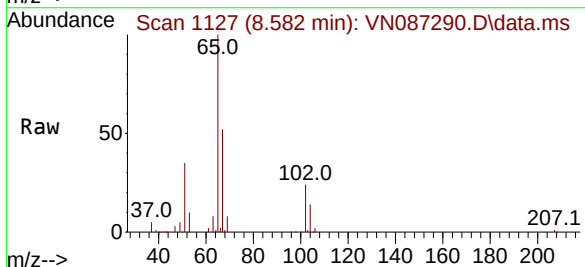
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

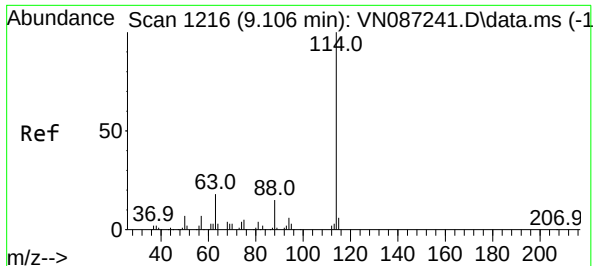
Tgt Ion: 56 Resp: 3376
Ion Ratio Lower Upper
56 100
69 142.4 27.0 40.6#
84 155.1 86.2 129.4#



#33
1,2-Dichloroethane-d4
Concen: 58.594 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 65 Resp: 135111
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.6

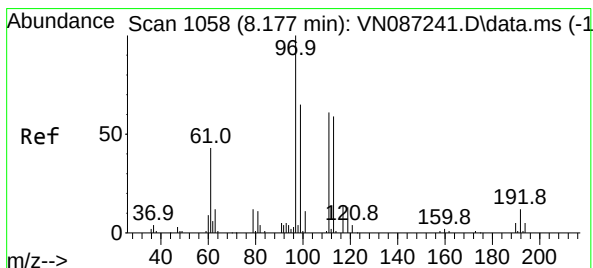
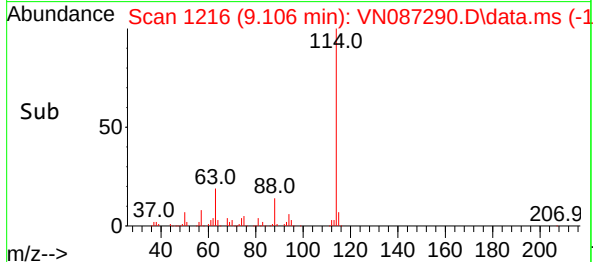
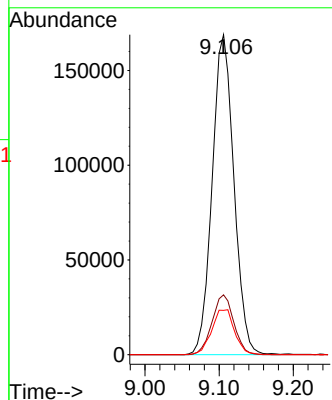
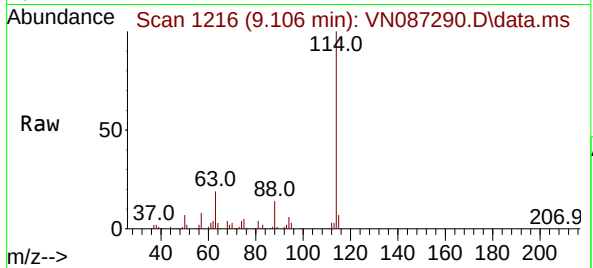




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

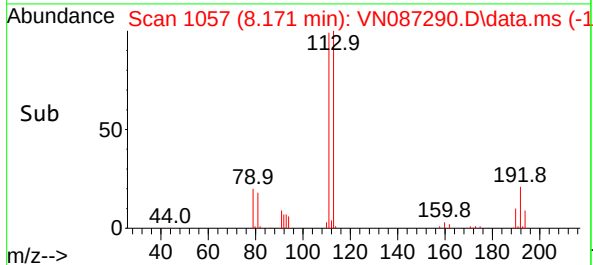
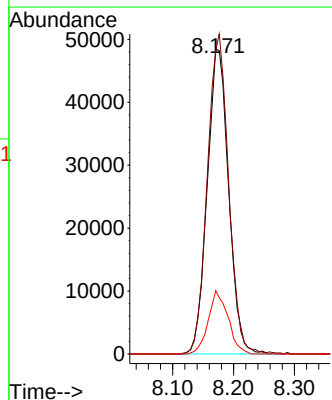
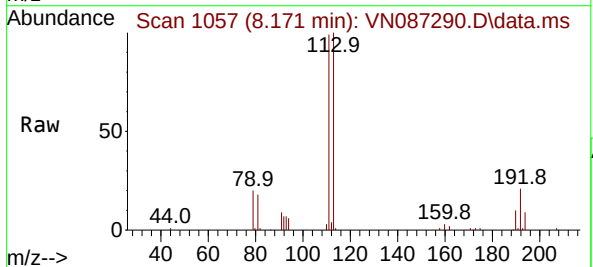
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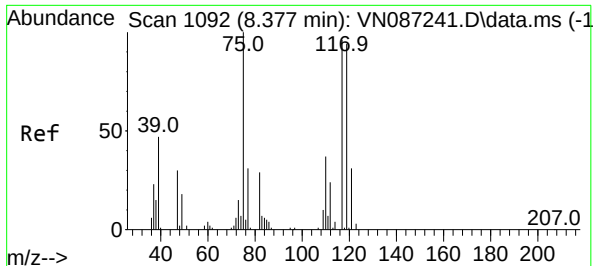
Tgt Ion:114 Resp: 344094
Ion Ratio Lower Upper
114 100
63 18.7 0.0 36.6
88 13.9 0.0 29.6



#35
Dibromofluoromethane
Concen: 53.771 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion:113 Resp: 118472
Ion Ratio Lower Upper
113 100
111 103.8 81.4 122.2
192 19.2 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.302 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087290.D

Acq: 07 Jul 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

G1(10)

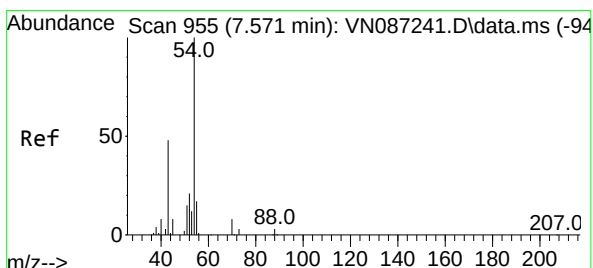
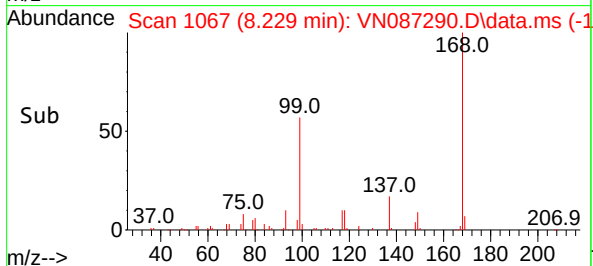
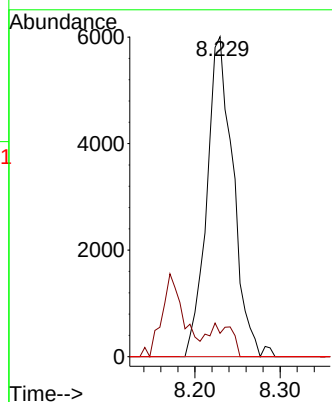
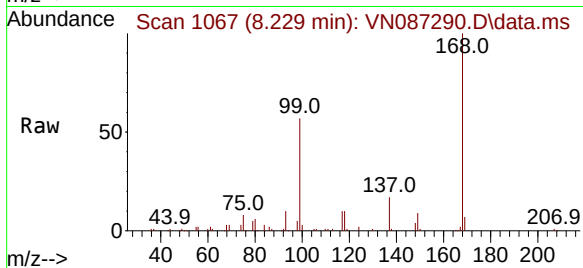
Tgt Ion: 75 Resp: 12889

Ion Ratio Lower Upper

75 100

110 9.3 18.7 56.1#

77 0.0 24.5 36.7#



#37

Ethyl Acetate

Concen: 4.195 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN087290.D

Acq: 07 Jul 2025 13:26

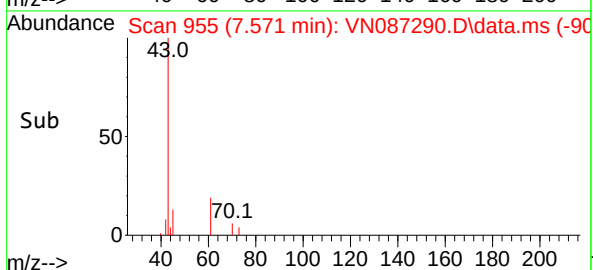
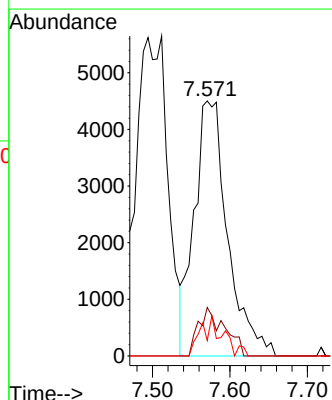
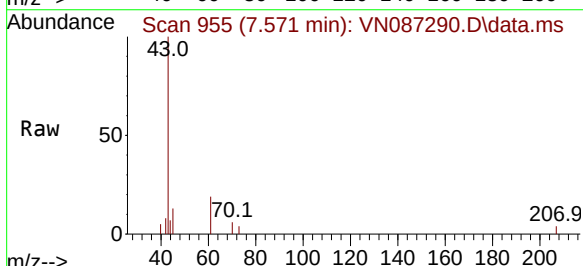
Tgt Ion: 43 Resp: 13513

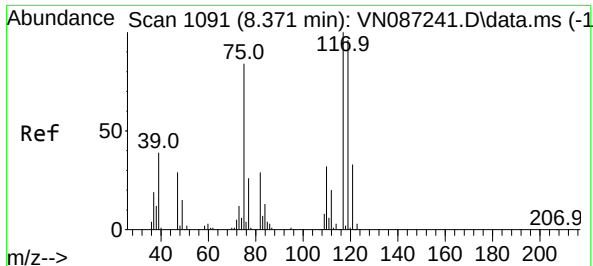
Ion Ratio Lower Upper

43 100

61 14.8 11.3 16.9

70 3.9 9.9 14.9#

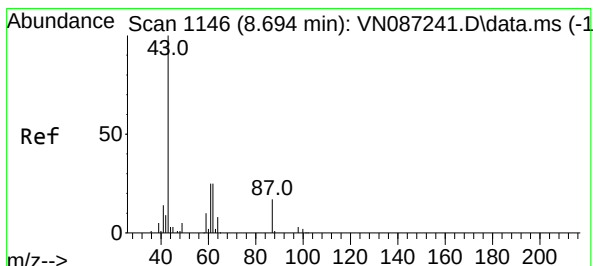
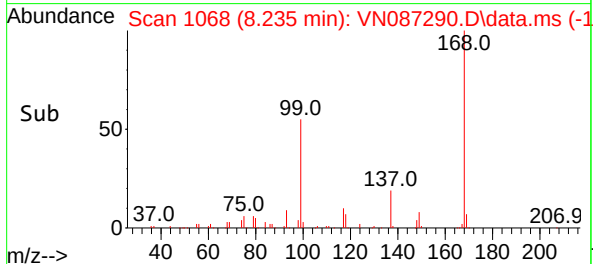
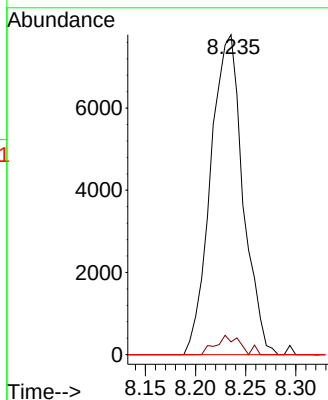
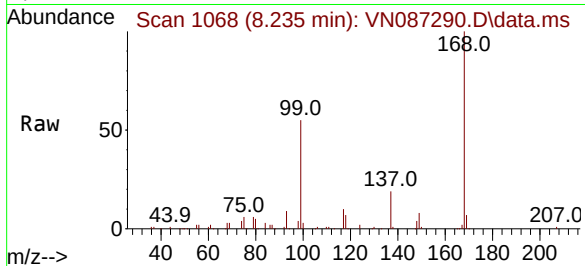




#38
Carbon Tetrachloride
Concen: 5.157 ug/l
RT: 8.235 min Scan# 1106
Delta R.T. -0.136 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

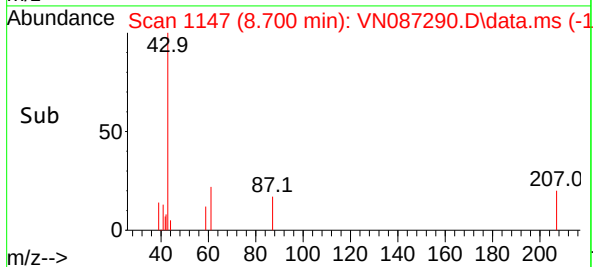
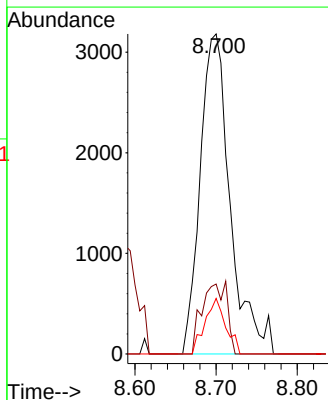
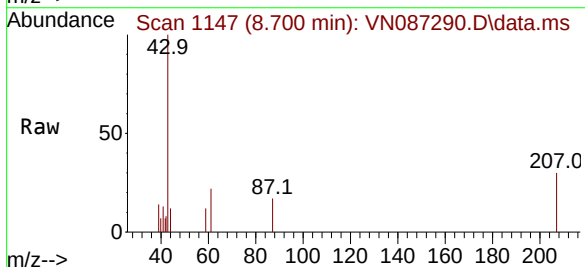
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

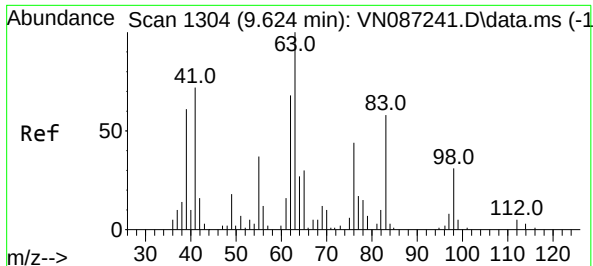
Tgt Ion:117 Resp: 17508
Ion Ratio Lower Upper
117 100
119 4.0 77.2 115.8#
121 0.0 26.6 39.8#



#43
Isopropyl Acetate
Concen: 1.638 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 43 Resp: 8184
Ion Ratio Lower Upper
43 100
61 18.5 22.4 33.6#
87 12.0 12.8 19.2#





#45

1,2-Dichloropropane

Concen: 0.396 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN087290.D

Acq: 07 Jul 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

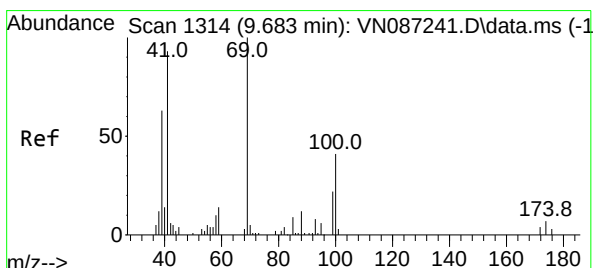
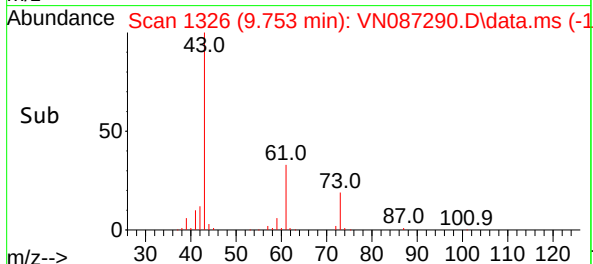
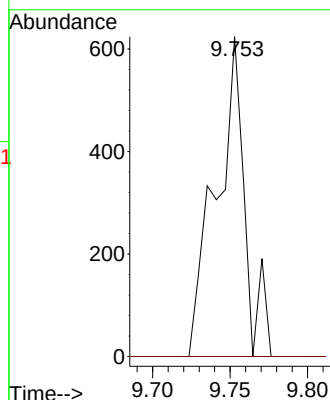
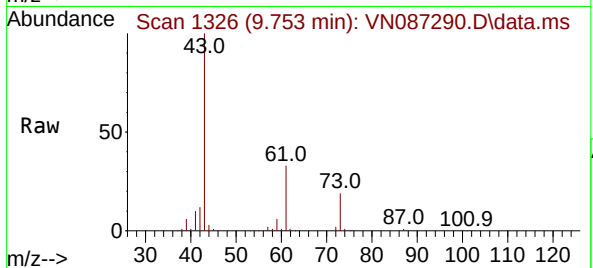
G1(10)

Tgt Ion: 63 Resp: 801

Ion Ratio Lower Upper

63 100

65 0.0 23.8 35.8#



#48

Methyl methacrylate

Concen: 30.884 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.064 min

Lab File: VN087290.D

Acq: 07 Jul 2025 13:26

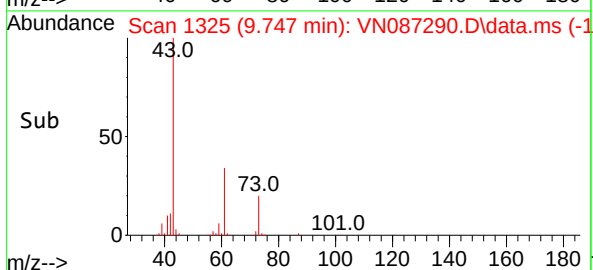
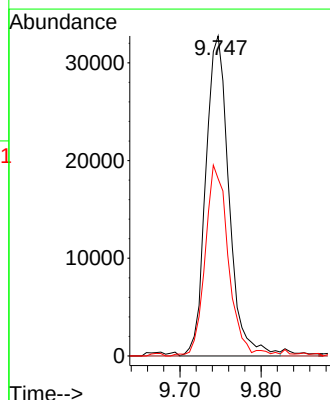
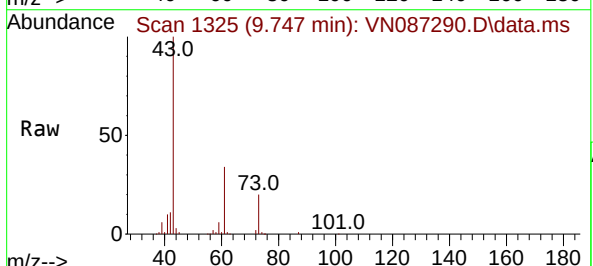
Tgt Ion: 41 Resp: 65018

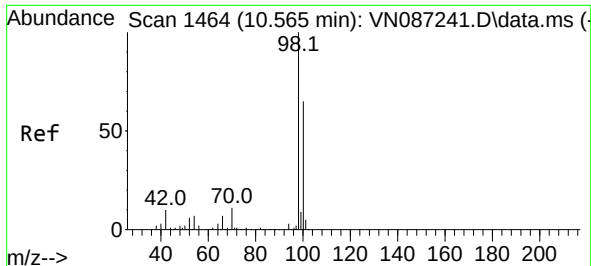
Ion Ratio Lower Upper

41 100

69 0.0 81.4 122.2#

39 59.6 56.9 85.3

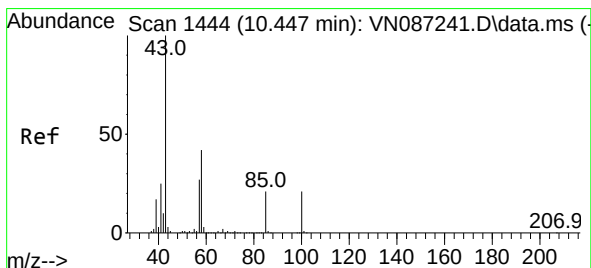
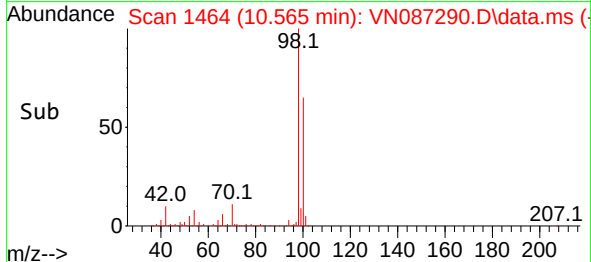
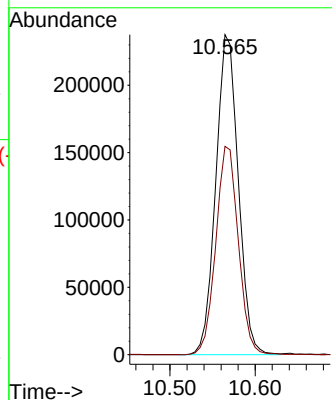
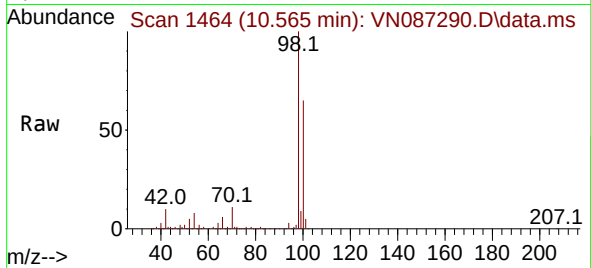




#50
Toluene-d8
Concen: 50.727 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

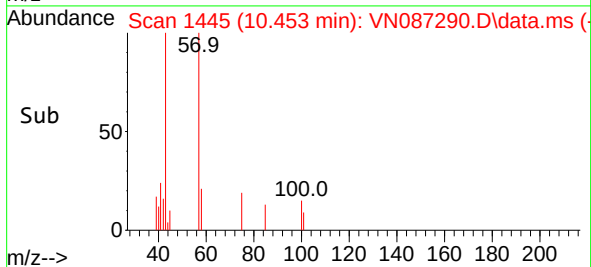
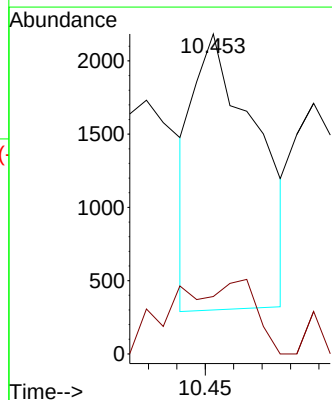
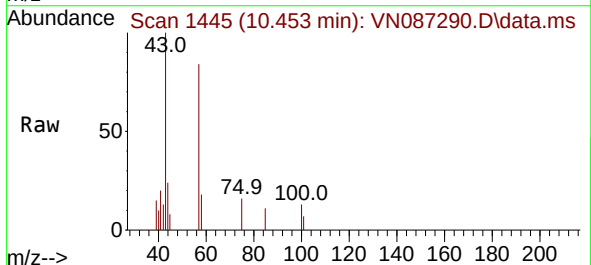
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

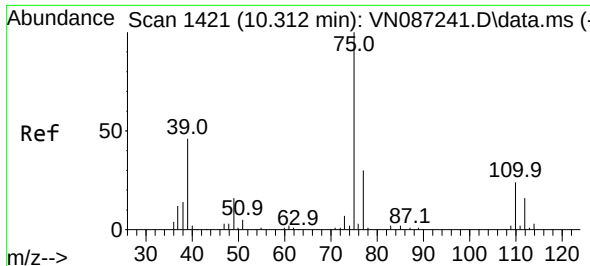
Tgt Ion: 98 Resp: 435637
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.953 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 43 Resp: 2913
Ion Ratio Lower Upper
43 100
58 35.1 34.2 51.2

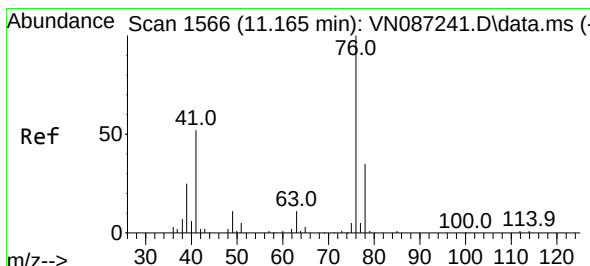
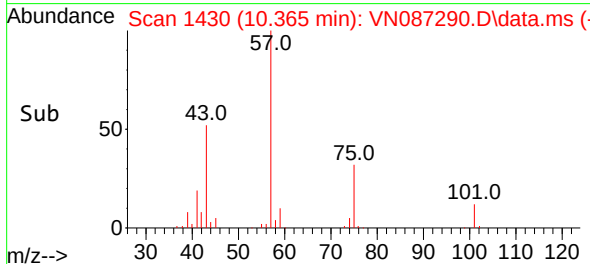
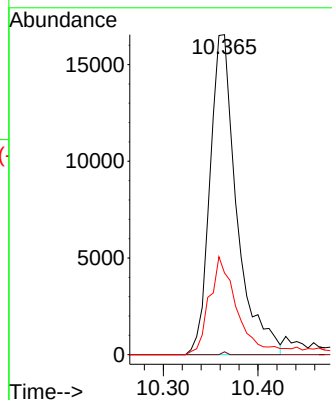
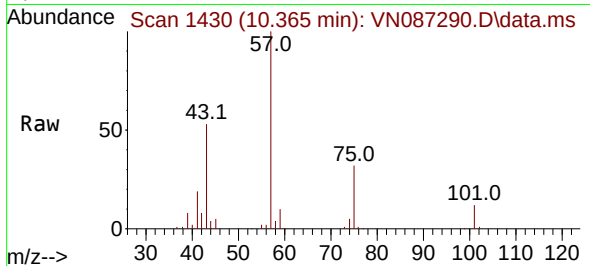




#54
 cis-1,3-Dichloropropene
 Concen: 9.083 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN087290.D
 Acq: 07 Jul 2025 13:26

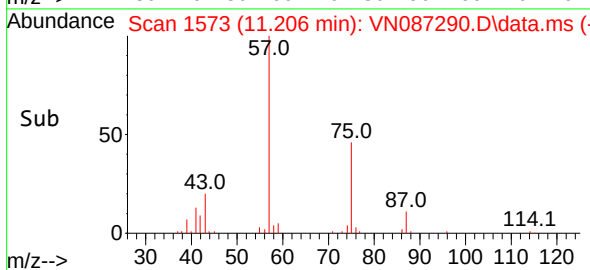
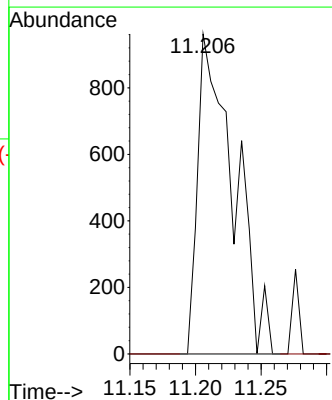
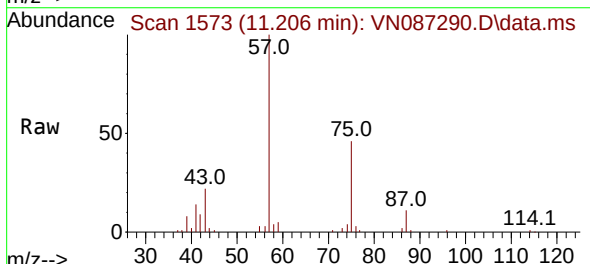
Instrument :
 MSVOA_N
 ClientSampleId :
 G1(10)

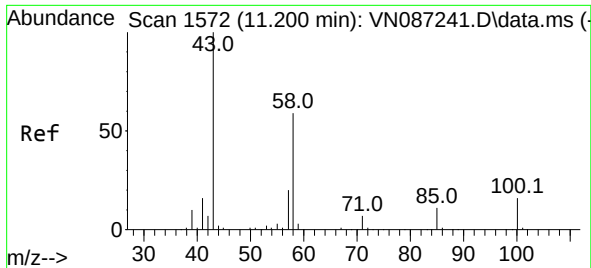
Tgt Ion: 75 Resp: 32595
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.1 36.1#
 39 25.5 36.7 55.1#



#57
 1,3-Dichloropropane
 Concen: 0.488 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN087290.D
 Acq: 07 Jul 2025 13:26

Tgt Ion: 76 Resp: 1832
 Ion Ratio Lower Upper
 76 100
 78 0.0 27.1 40.7#

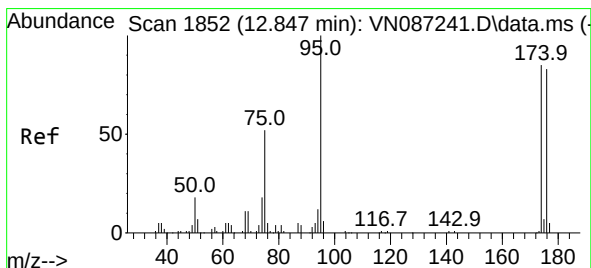
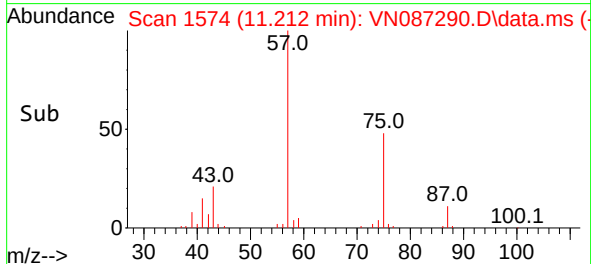
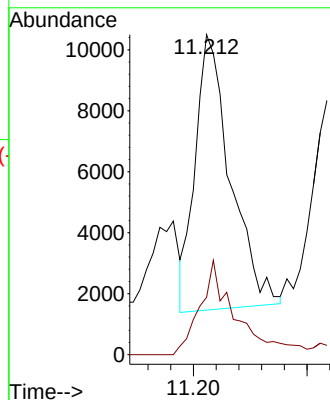
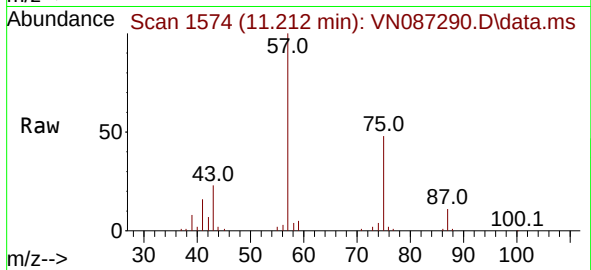




#59
2-Hexanone
Concen: 8.885 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

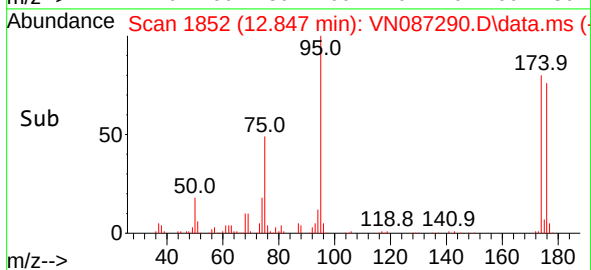
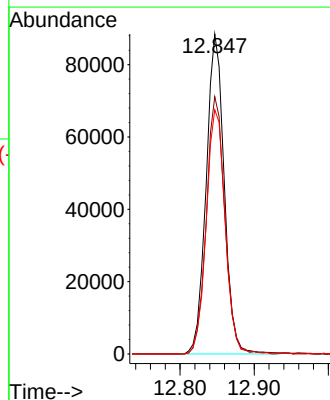
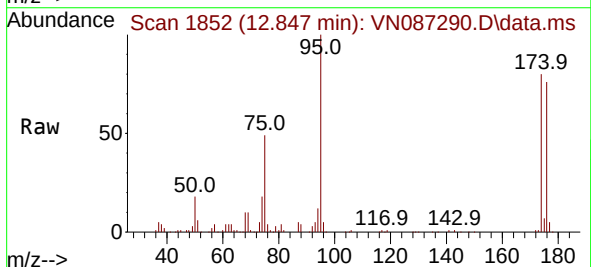
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

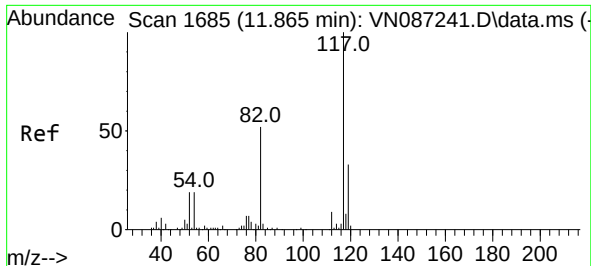
Tgt Ion: 43 Resp: 19450
Ion Ratio Lower Upper
43 100
58 34.7 31.1 93.3



#62
4-Bromofluorobenzene
Concen: 49.006 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion: 95 Resp: 149744
Ion Ratio Lower Upper
95 100
174 82.8 0.0 169.6
176 79.6 0.0 161.6

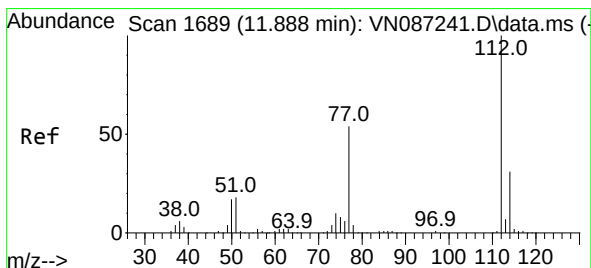
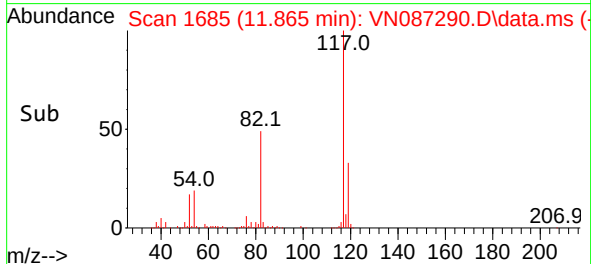
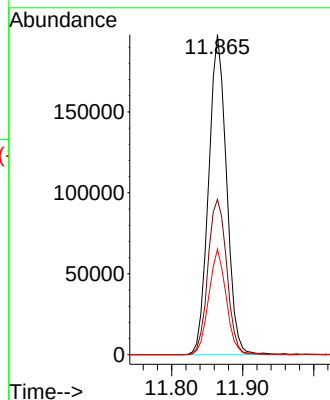
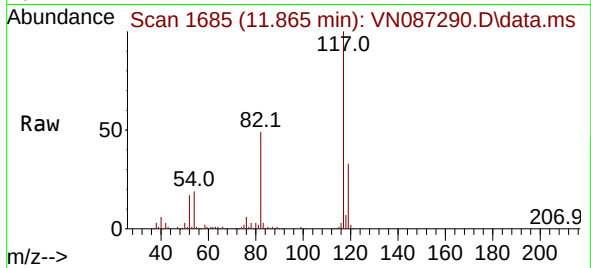




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

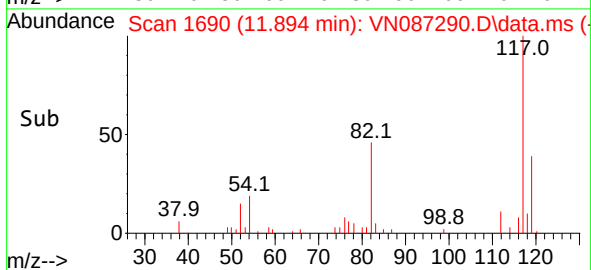
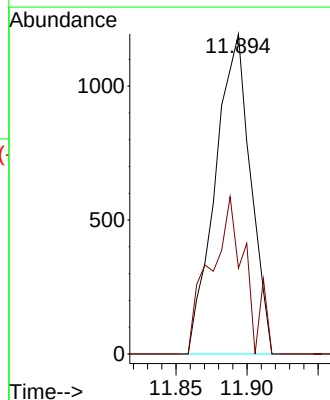
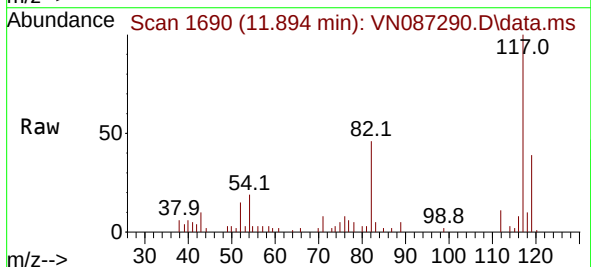
Instrument :
MSVOA_N
ClientSampleId :
G1(10)

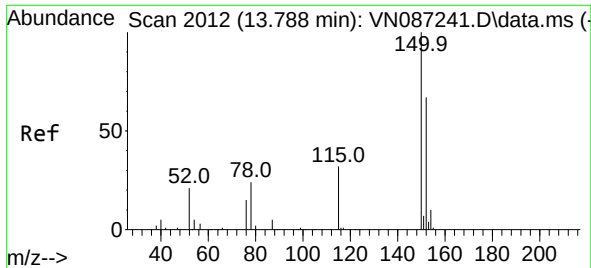
Tgt Ion:117 Resp: 347071
Ion Ratio Lower Upper
117 100
82 48.5 41.9 62.9
119 33.0 26.2 39.4



#65
Chlorobenzene
Concen: 0.265 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.006 min
Lab File: VN087290.D
Acq: 07 Jul 2025 13:26

Tgt Ion:112 Resp: 2060
Ion Ratio Lower Upper
112 100
114 26.8 24.4 36.6

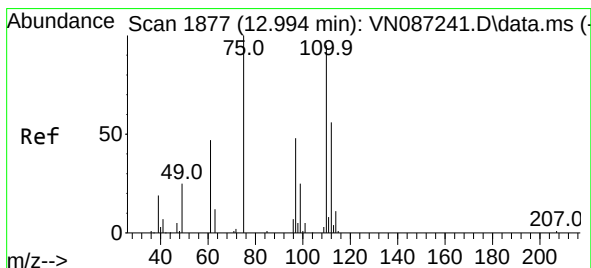
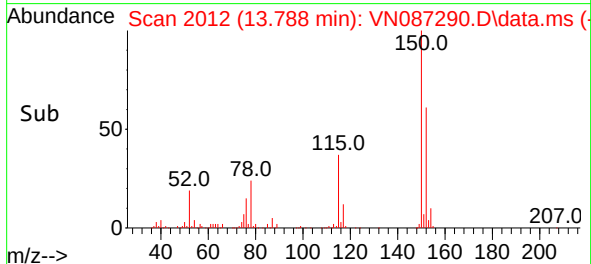
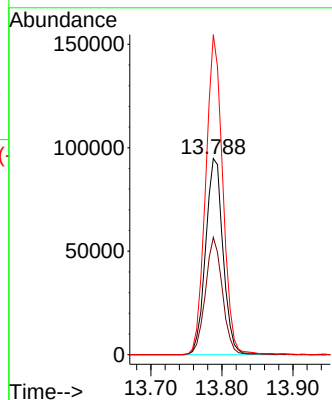
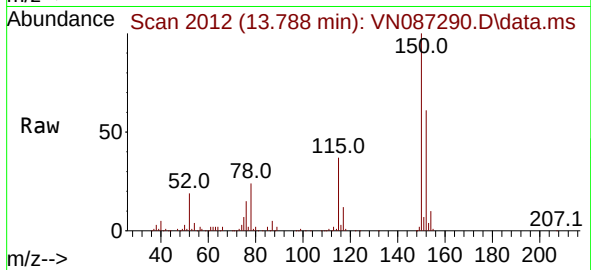




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN087290.D
 Acq: 07 Jul 2025 13:26

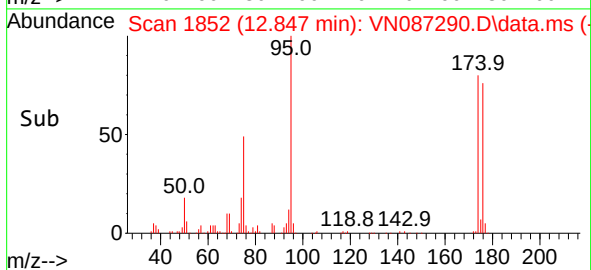
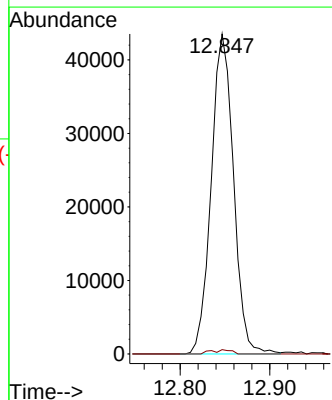
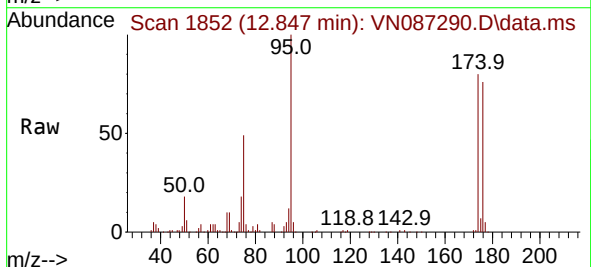
Instrument :
 MSVOA_N
 ClientSampleId :
 G1(10)

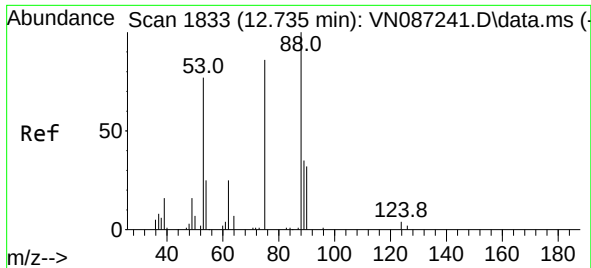
Tgt Ion:152 Resp: 162085
 Ion Ratio Lower Upper
 152 100
 115 58.4 28.3 84.9
 150 159.5 0.0 344.6



#76
 1,2,3-Trichloropropane
 Concen: 24.380 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087290.D
 Acq: 07 Jul 2025 13:26

Tgt Ion: 75 Resp: 75164
 Ion Ratio Lower Upper
 75 100
 77 0.7 82.0 245.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.267 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087290.D
 Acq: 07 Jul 2025 13:26

Instrument :
 MSVOA_N
 ClientSampleId :
 G1(10)

Tgt Ion: 75 Resp: 75164
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.6 105.8#
 89 0.0 36.1 54.1#

