

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
 Data File : VN087291.D
 Acq On : 07 Jul 2025 13:47
 Operator : JC\MD
 Sample : Q2493-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G1(4.5)

Quant Time: Jul 08 01:34:01 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

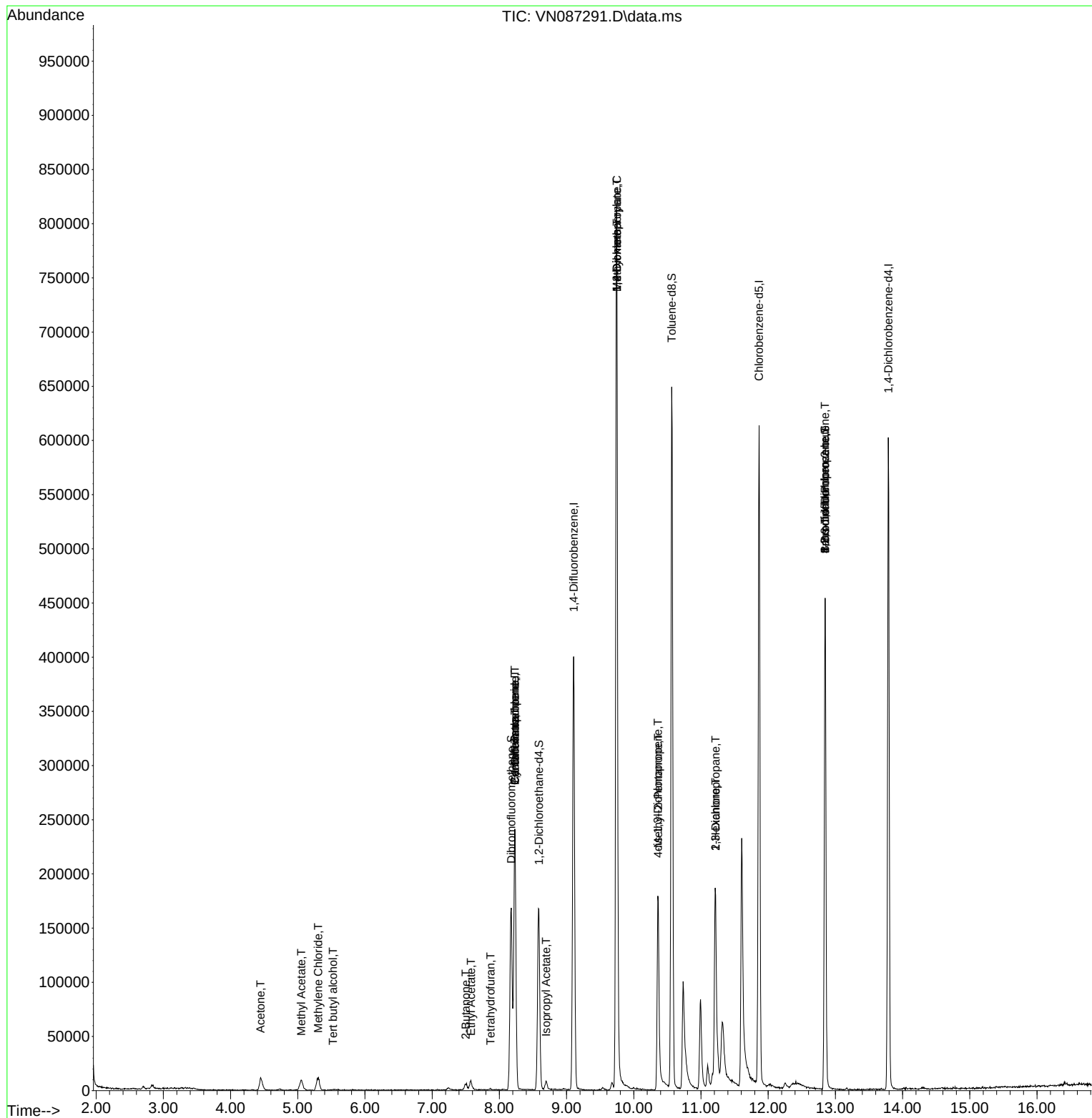
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	191828	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	366774	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	365232	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	175013	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	141139	58.623	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 117.240%	
35) Dibromofluoromethane	8.177	113	125584	53.475	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.940%	
50) Toluene-d8	10.565	98	463524	50.637	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.280%	
62) 4-Bromofluorobenzene	12.847	95	158798	48.755	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 97.520%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.524	59	605	1.379	ug/l #	72
16) Acetone	4.448	43	21815	23.700	ug/l	96
18) Methyl Acetate	5.053	43	19821	9.407	ug/l	95
20) Methylene Chloride	5.306	84	10048	4.928	ug/l	92
25) 2-Butanone	7.500	43	9909	6.889	ug/l	94
29) Tetrahydrofuran	7.871	42	639	0.689	ug/l #	45
31) Cyclohexane	8.230	56	3462	1.056	ug/l #	23
36) 1,1-Dichloropropene	8.230	75	13438	4.208	ug/l #	49
37) Ethyl Acetate	7.577	43	12867	3.748	ug/l	98
38) Carbon Tetrachloride	8.230	117	18755	5.183	ug/l #	16
43) Isopropyl Acetate	8.694	43	8541	1.604	ug/l #	89
45) 1,2-Dichloropropane	9.747	63	975	0.452	ug/l #	45
48) Methyl methacrylate	9.747	41	78210	34.854	ug/l #	35
49) 1,4-Dioxane	9.747	88	58	17.925	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	74445	22.853	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	42723	11.170	ug/l #	63
57) 1,3-Dichloropropane	11.218	76	2433	0.608	ug/l #	41
59) 2-Hexanone	11.218	43	29303	12.558	ug/l	60
71) Bromoform	12.847	173	1480	0.678	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	77704	23.342	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77704	54.829	ug/l #	14

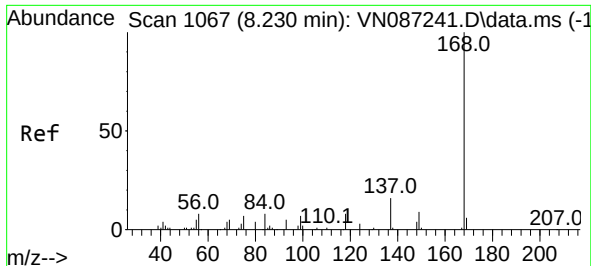
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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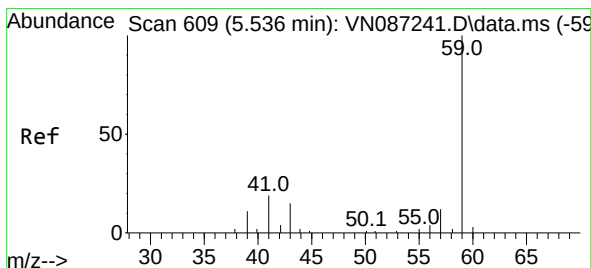
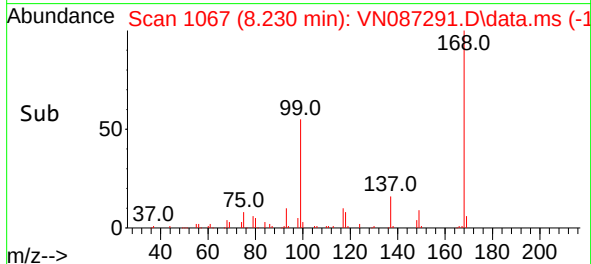
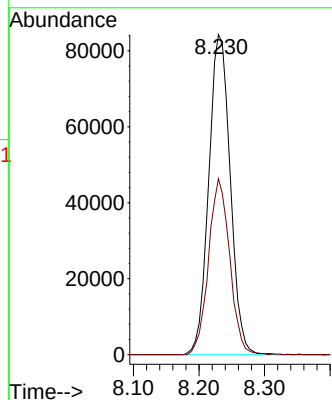
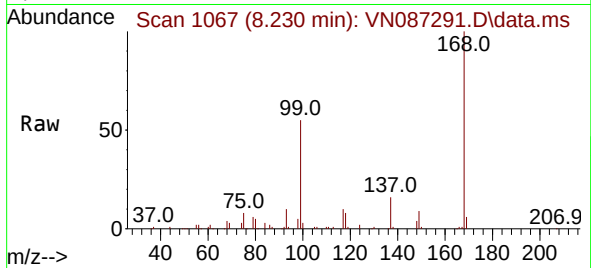




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

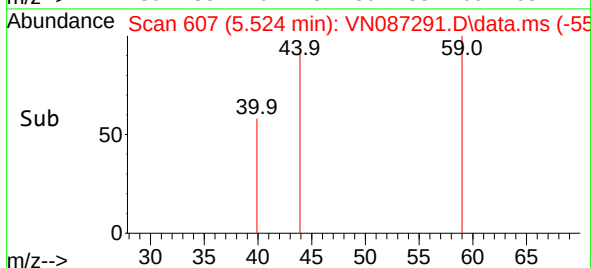
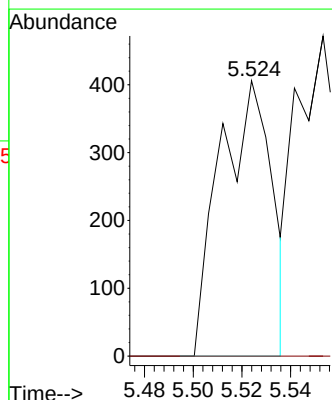
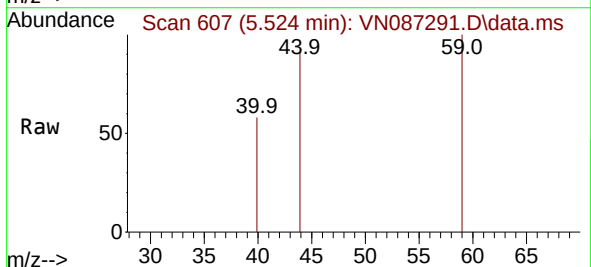
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

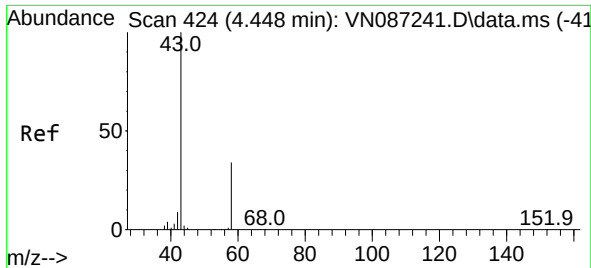
Tgt Ion:168 Resp: 191828
Ion Ratio Lower Upper
168 100
99 55.0 42.6 64.0



#11
Tert butyl alcohol
Concen: 1.379 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion: 59 Resp: 605
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 23.700 ug/l

RT: 4.448 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087291.D

Acq: 07 Jul 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

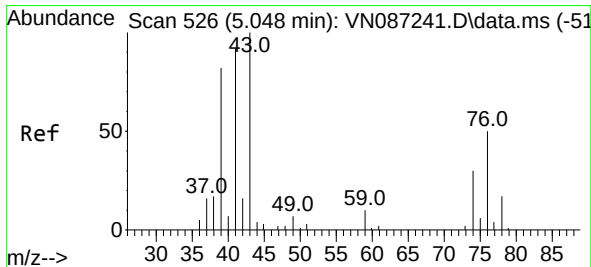
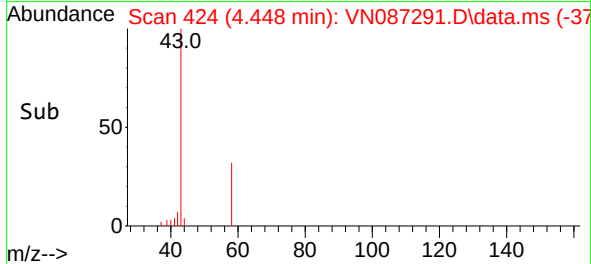
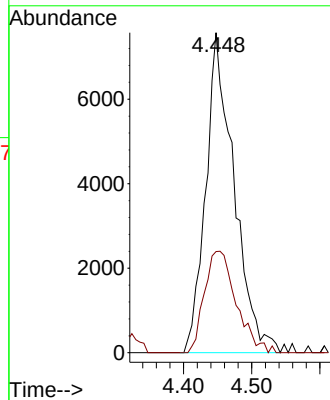
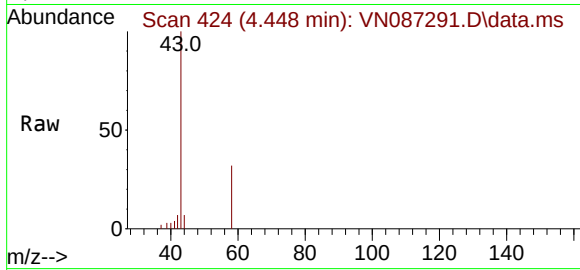
G1(4.5)

Tgt Ion: 43 Resp: 21815

Ion Ratio Lower Upper

43 100

58 31.6 27.1 40.7



#18

Methyl Acetate

Concen: 9.407 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.006 min

Lab File: VN087291.D

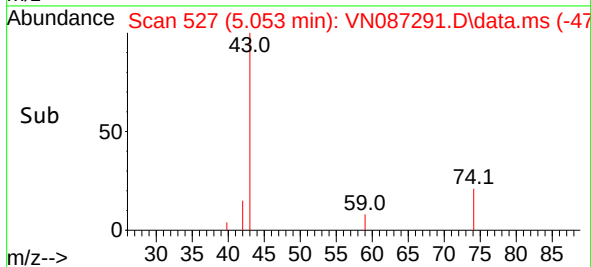
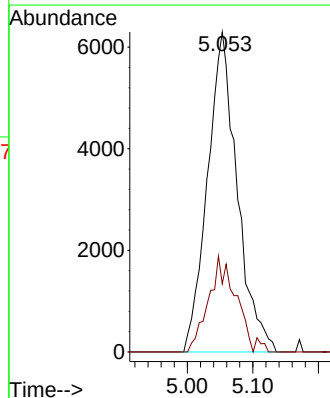
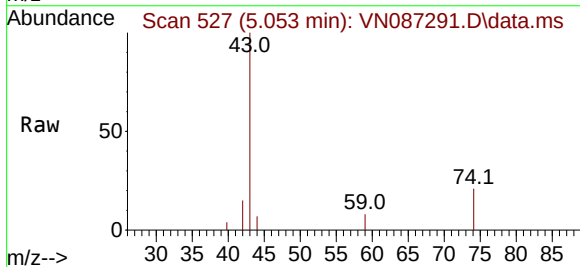
Acq: 07 Jul 2025 13:47

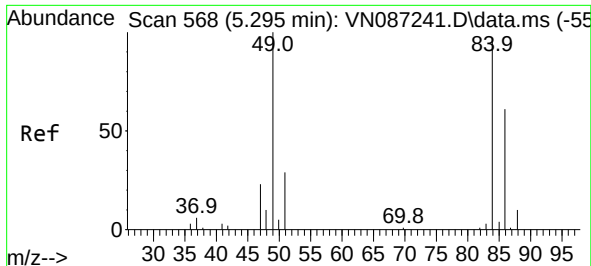
Tgt Ion: 43 Resp: 19821

Ion Ratio Lower Upper

43 100

74 27.0 23.8 35.6

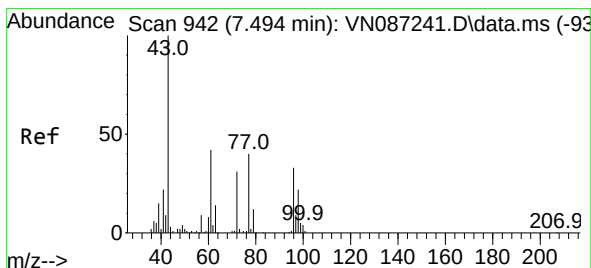
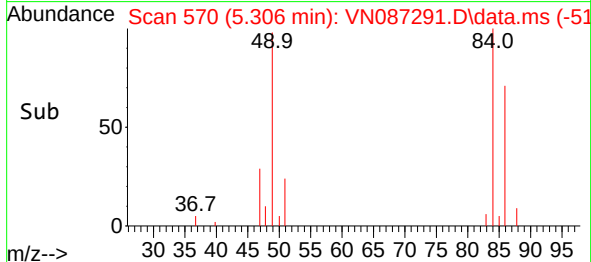
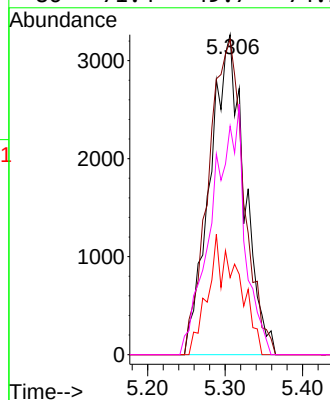
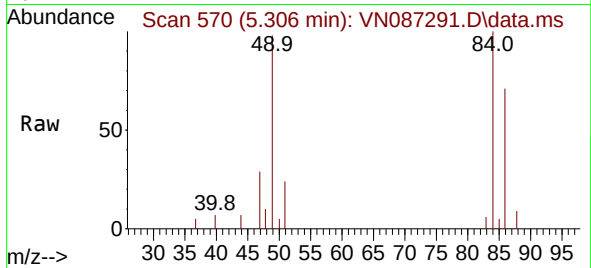




#20
Methylene Chloride
Concen: 4.928 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

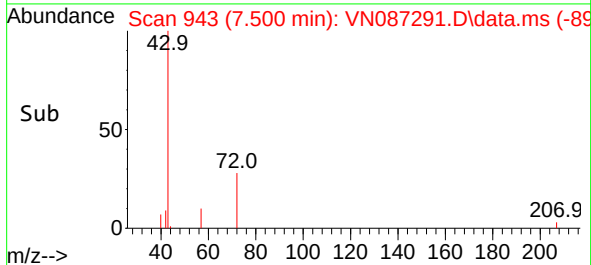
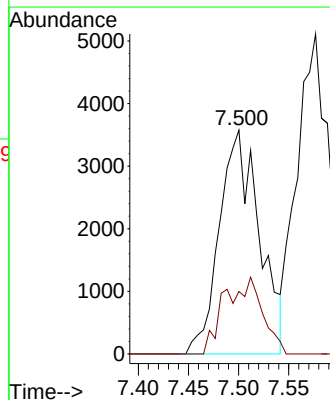
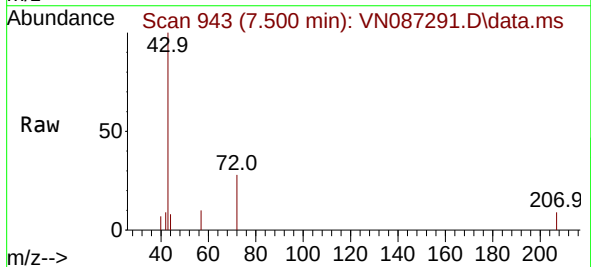
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

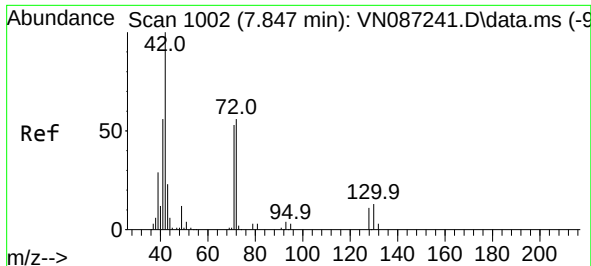
Tgt Ion:	84	Resp:	10048
Ion	Ratio	Lower	Upper
84	100		
49	98.5	82.1	123.1
51	24.1	23.5	35.3
86	71.4	49.7	74.5



#25
2-Butanone
Concen: 6.889 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion:	43	Resp:	9909
Ion	Ratio	Lower	Upper
43	100		
72	27.9	24.8	37.2





#29

Tetrahydrofuran

Concen: 0.689 ug/l

RT: 7.871 min Scan# 1067

Delta R.T. 0.023 min

Lab File: VN087291.D

Acq: 07 Jul 2025 13:47

Instrument :

MSVOA_N

ClientSampleId :

G1(4.5)

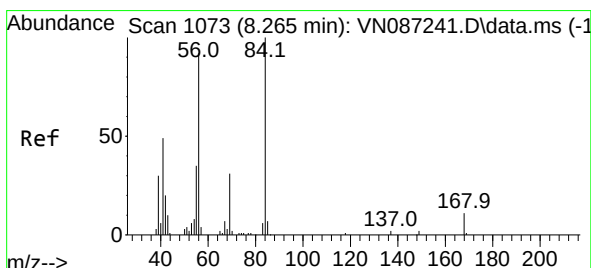
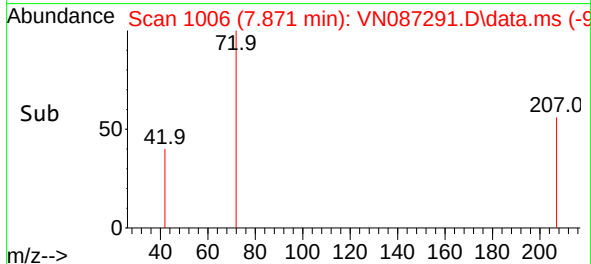
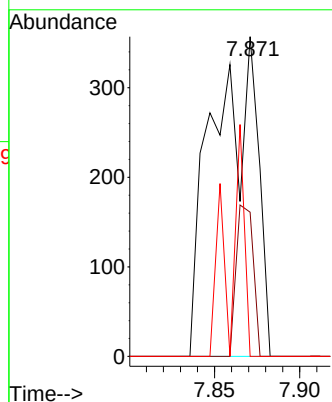
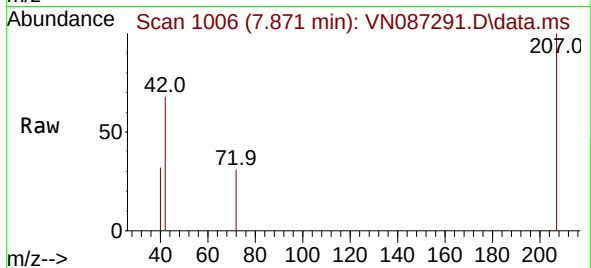
Tgt Ion: 42 Resp: 639

Ion Ratio Lower Upper

42 100

72 18.2 44.2 66.4#

71 10.6 41.1 61.7#



#31

Cyclohexane

Concen: 1.056 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN087291.D

Acq: 07 Jul 2025 13:47

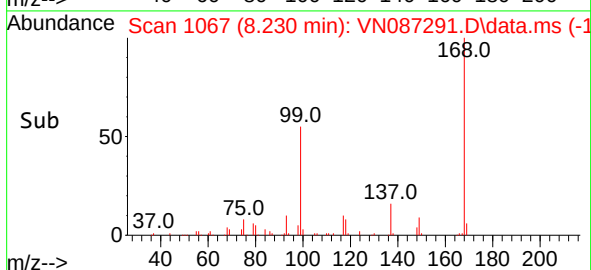
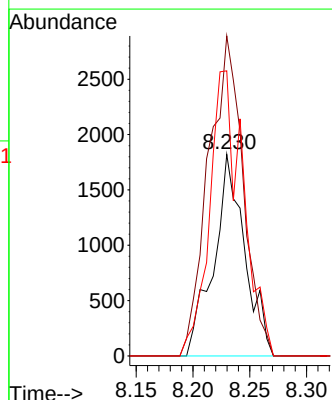
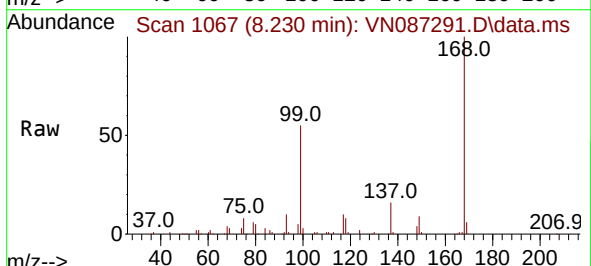
Tgt Ion: 56 Resp: 3462

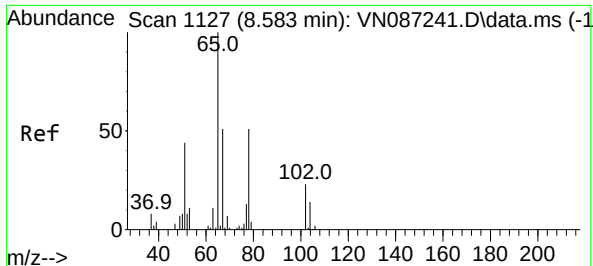
Ion Ratio Lower Upper

56 100

69 158.7 27.0 40.6#

84 141.4 86.2 129.4#





#33

1,2-Dichloroethane-d4

Concen: 58.623 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN087291.D

Acq: 07 Jul 2025 13:47

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ClientSampleId :

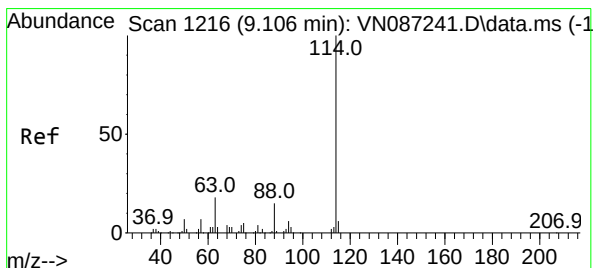
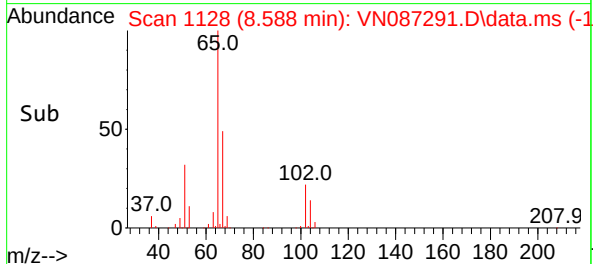
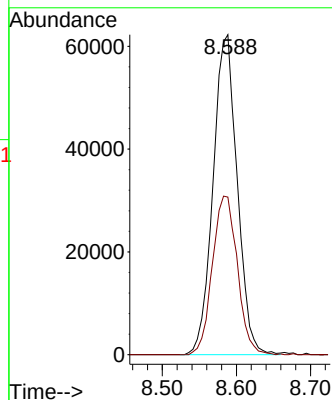
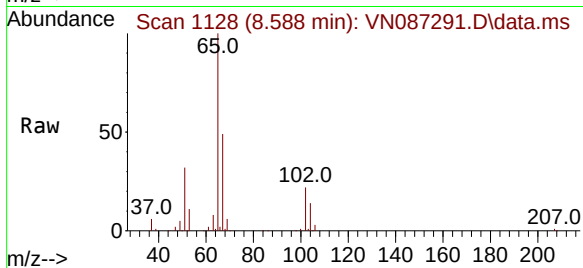
G1(4.5)

Tgt Ion: 65 Resp: 141139

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087291.D

Acq: 07 Jul 2025 13:47

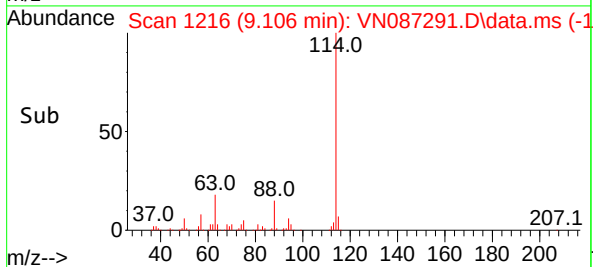
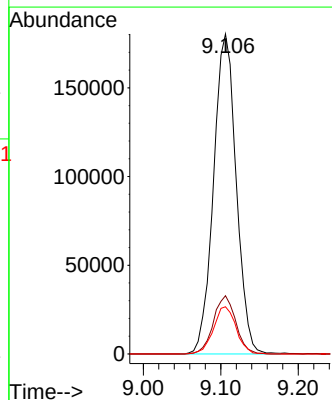
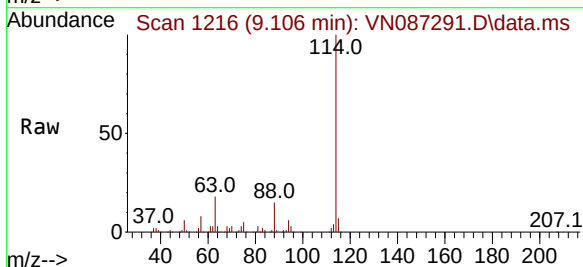
Tgt Ion: 114 Resp: 366774

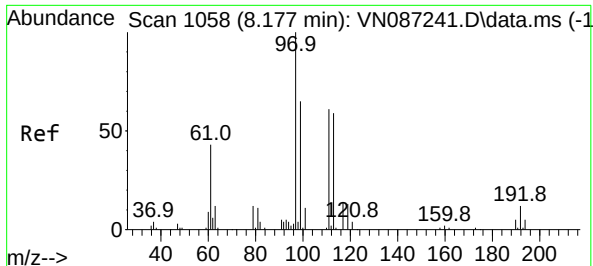
Ion Ratio Lower Upper

114 100

63 18.2 0.0 36.6

88 14.8 0.0 29.6

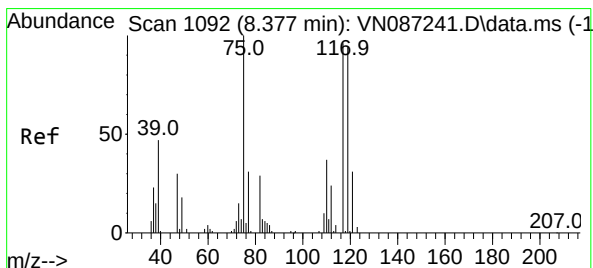
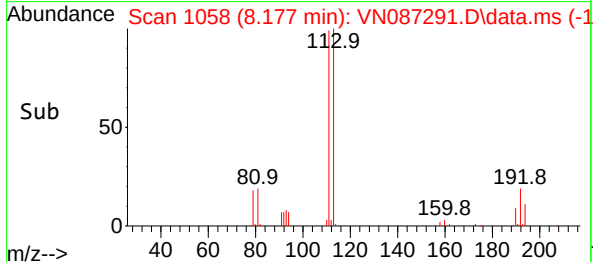
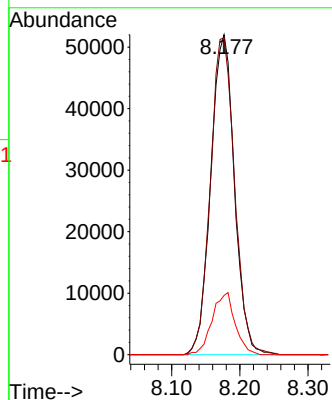
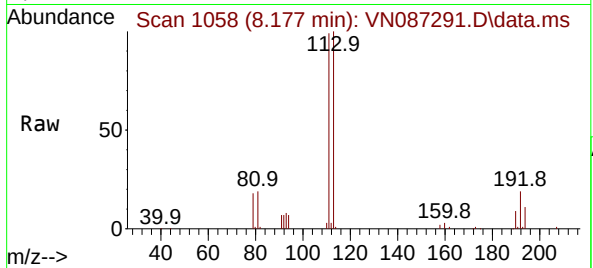




#35
Dibromofluoromethane
Concen: 53.475 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

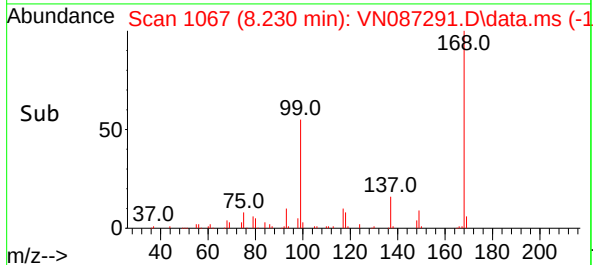
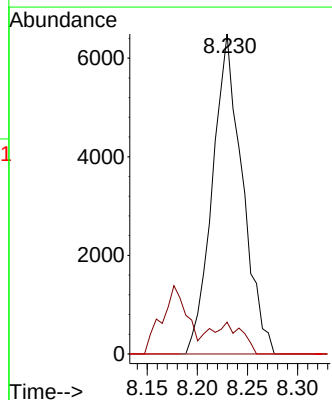
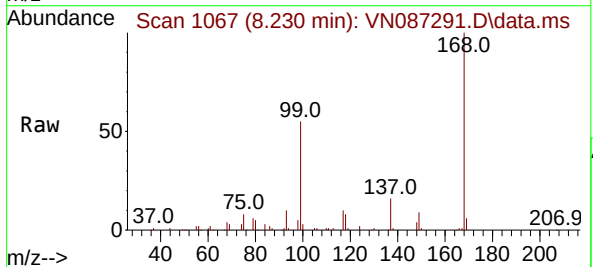
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

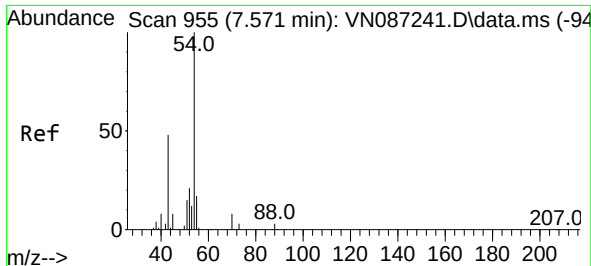
Tgt Ion:113 Resp: 125584
Ion Ratio Lower Upper
113 100
111 101.3 81.4 122.2
192 18.8 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.208 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

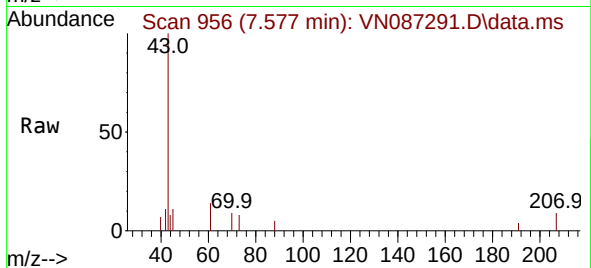
Tgt Ion: 75 Resp: 13438
Ion Ratio Lower Upper
75 100
110 9.7 18.7 56.1#
77 0.0 24.5 36.7#



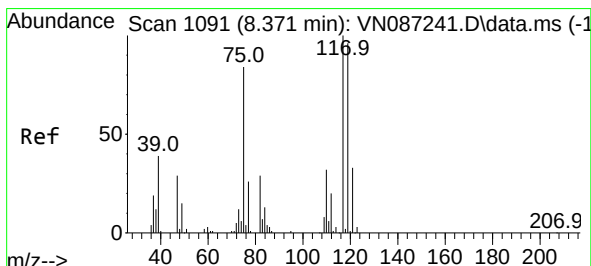
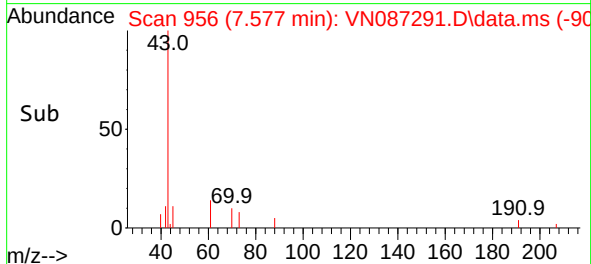
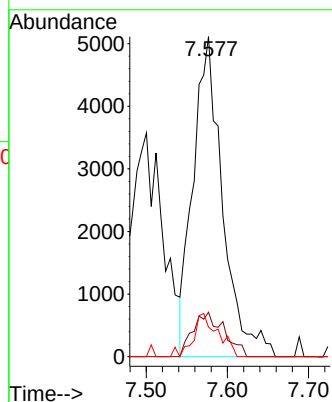


#37
Ethyl Acetate
Concen: 3.748 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

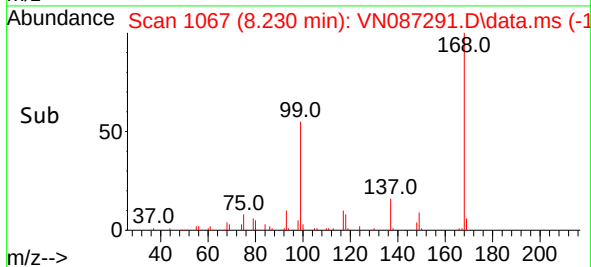
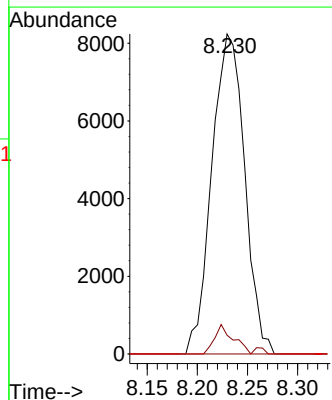
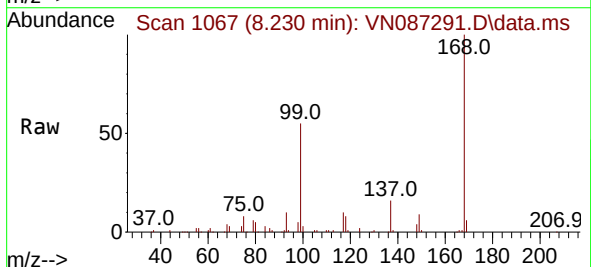


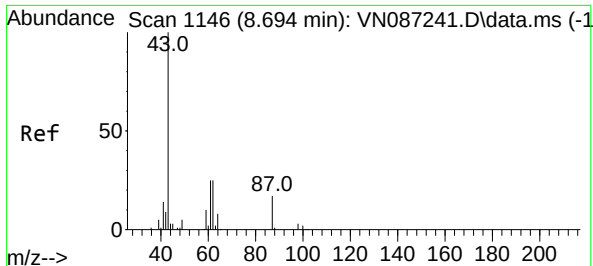
Tgt Ion: 43 Resp: 12867
Ion Ratio Lower Upper
43 100
61 14.6 11.3 16.9
70 11.3 9.9 14.9



#38
Carbon Tetrachloride
Concen: 5.183 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion: 117 Resp: 18755
Ion Ratio Lower Upper
117 100
119 5.9 77.2 115.8#
121 0.0 26.6 39.8#

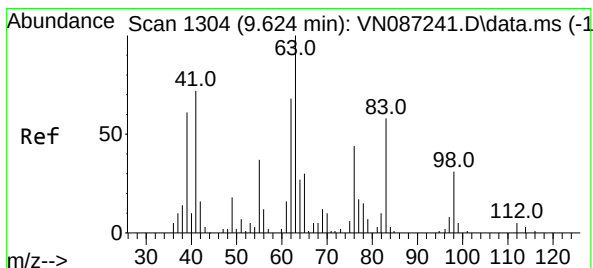
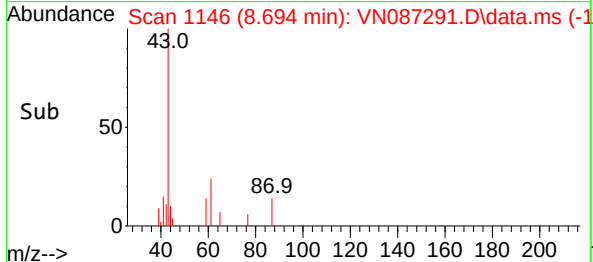
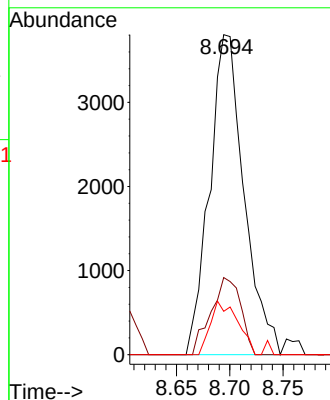
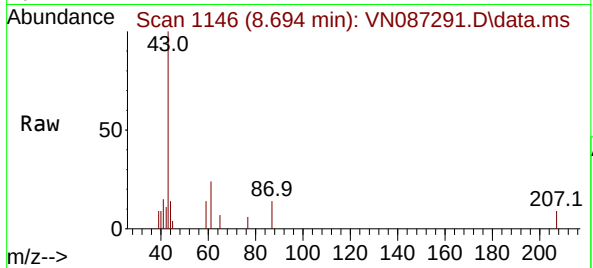




#43
Isopropyl Acetate
Concen: 1.604 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

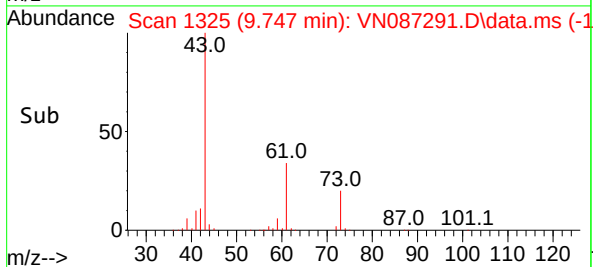
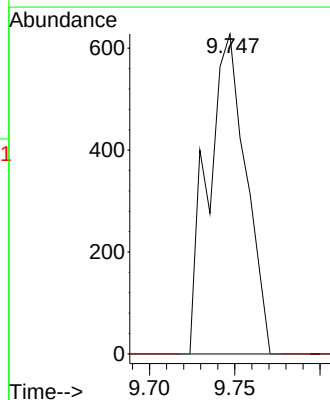
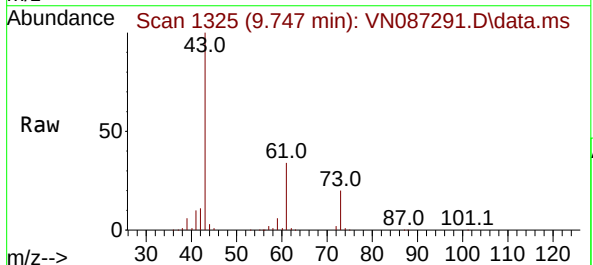
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

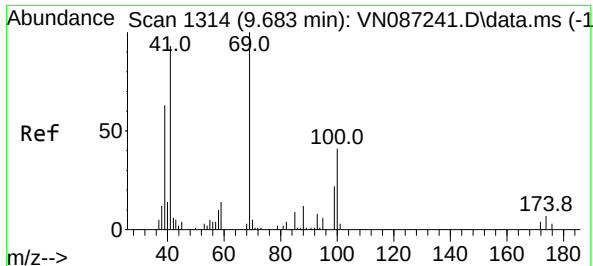
Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.9	22.4	33.6#
87	13.3	12.8	19.2



#45
1,2-Dichloropropane
Concen: 0.452 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.8	35.8#

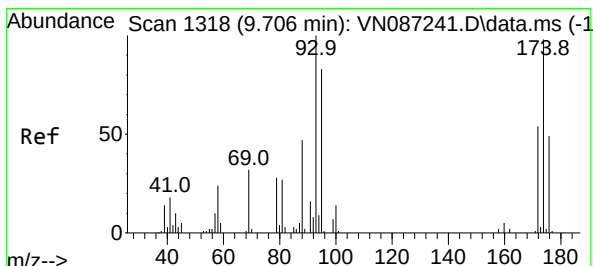
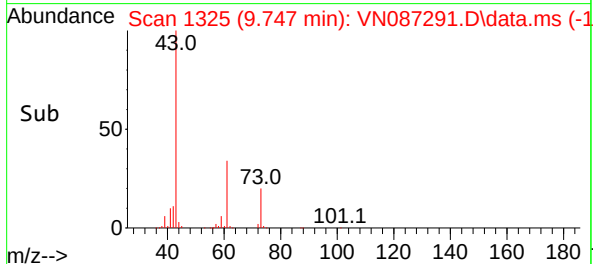
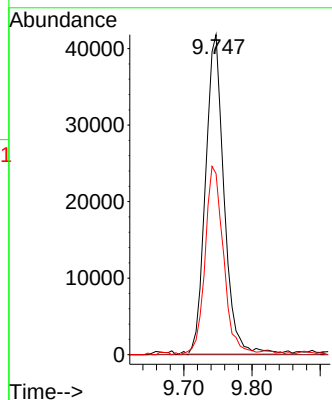
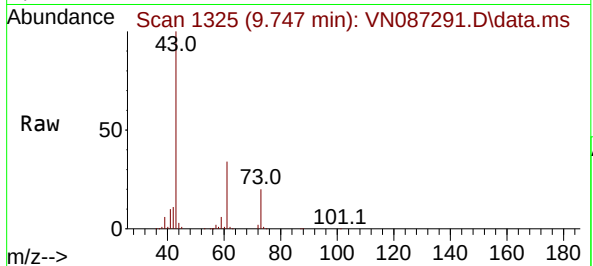




#48
Methyl methacrylate
Concen: 34.854 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

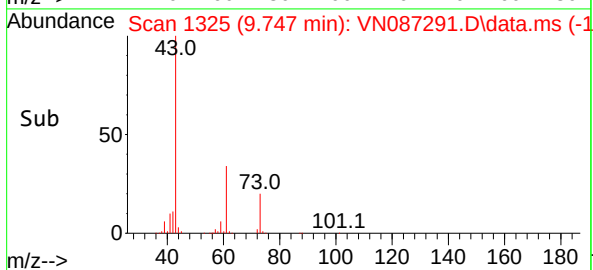
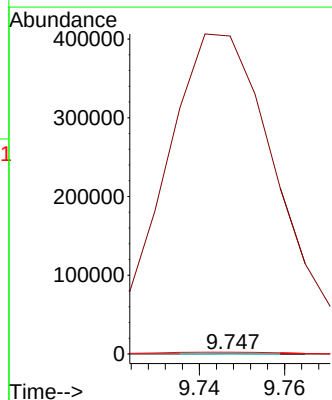
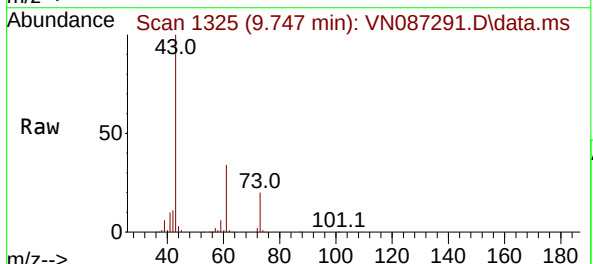
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

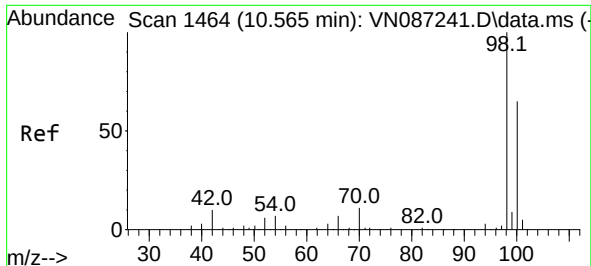
Tgt Ion: 41 Resp: 78210
Ion Ratio Lower Upper
41 100
69 0.0 81.4 122.2#
39 59.4 56.9 85.3



#49
1,4-Dioxane
Concen: 17.925 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.041 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 1367184.5 0.0 0.0#
58 8143.1 47.8 71.8#

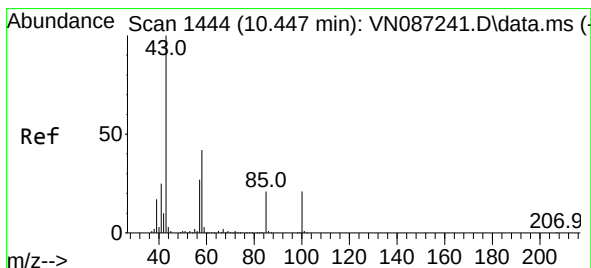
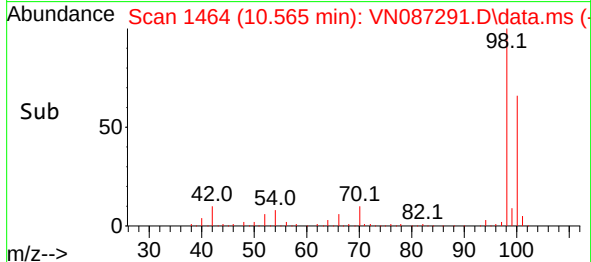
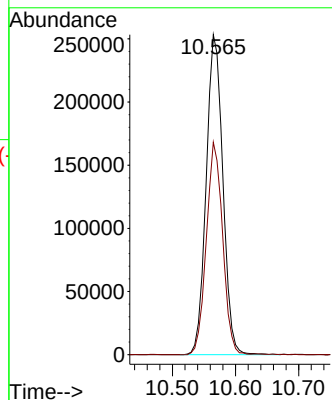
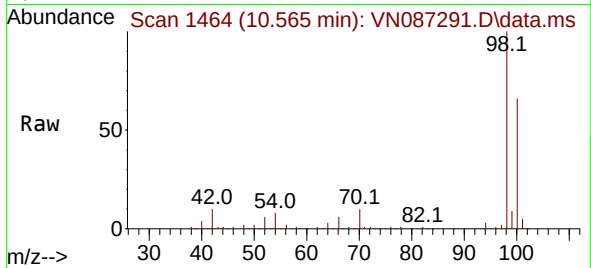




#50
Toluene-d8
Concen: 50.637 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

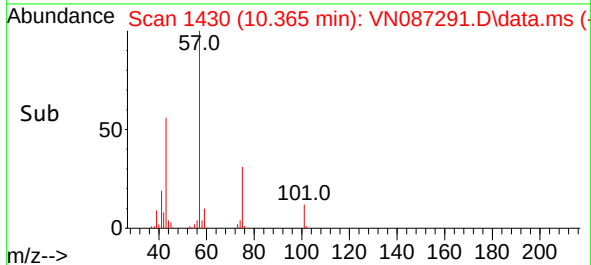
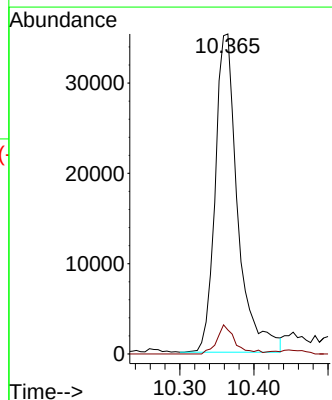
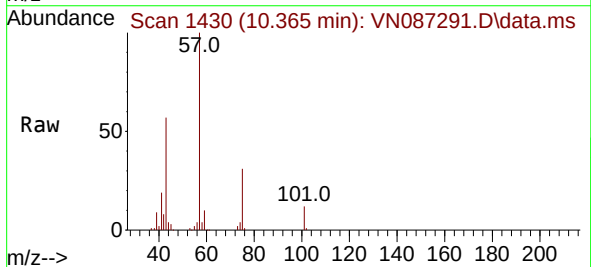
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

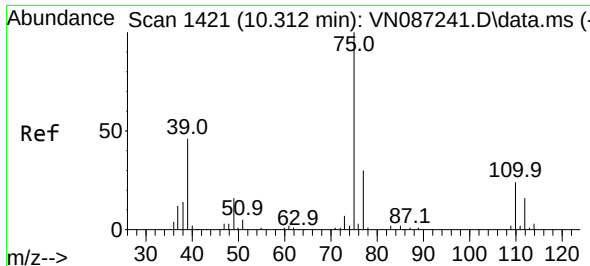
Tgt Ion: 98 Resp: 463524
Ion Ratio Lower Upper
98 100
100 65.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 22.853 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion: 43 Resp: 74445
Ion Ratio Lower Upper
43 100
58 7.4 34.2 51.2#

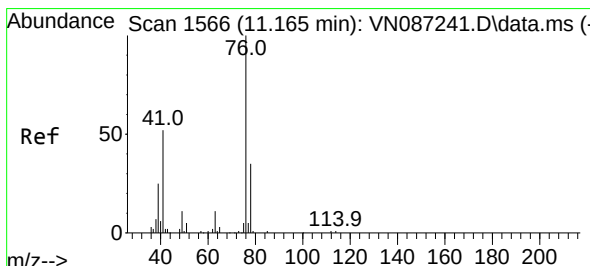
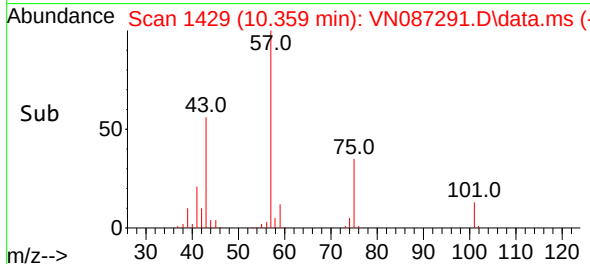
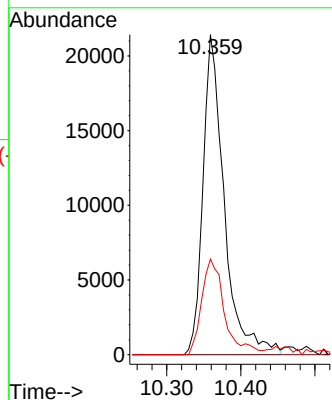
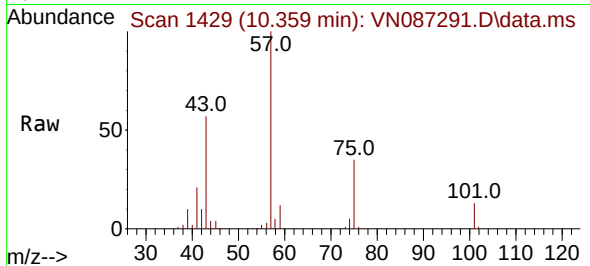




#54
 cis-1,3-Dichloropropene
 Concen: 11.170 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087291.D
 Acq: 07 Jul 2025 13:47

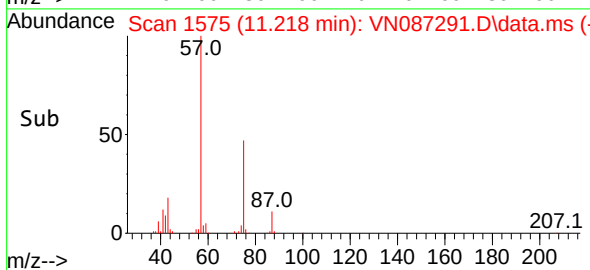
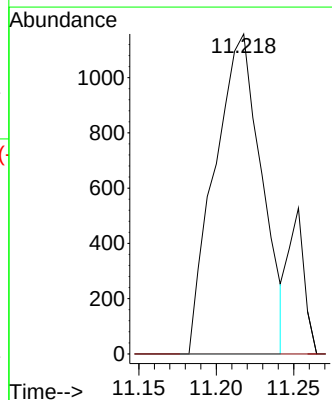
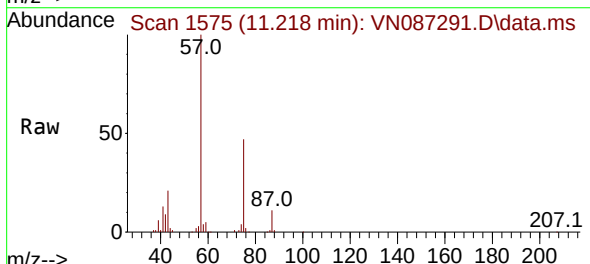
Instrument :
 MSVOA_N
 ClientSampleId :
 G1(4.5)

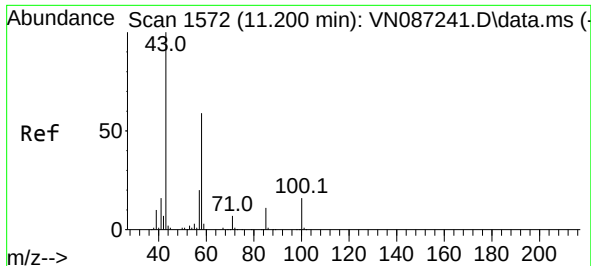
Tgt Ion: 75 Resp: 42723
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.1 36.1#
 39 29.9 36.7 55.1#



#57
 1,3-Dichloropropane
 Concen: 0.608 ug/l
 RT: 11.218 min Scan# 1575
 Delta R.T. 0.053 min
 Lab File: VN087291.D
 Acq: 07 Jul 2025 13:47

Tgt Ion: 76 Resp: 2433
 Ion Ratio Lower Upper
 76 100
 78 0.0 27.1 40.7#

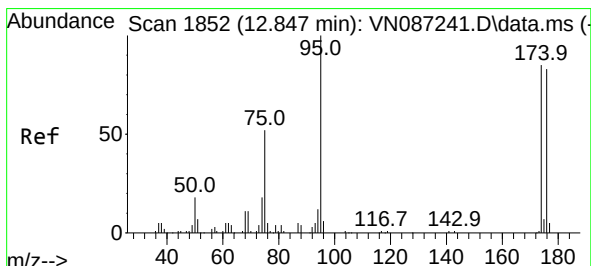
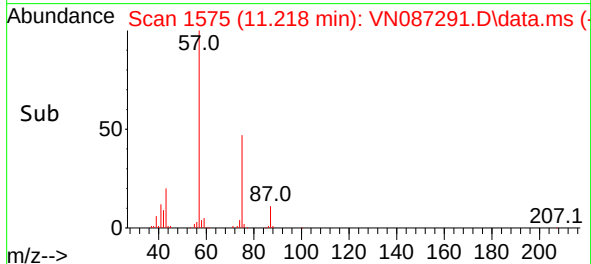
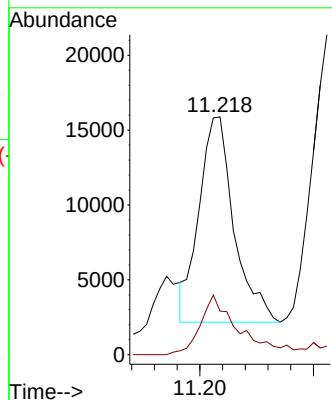
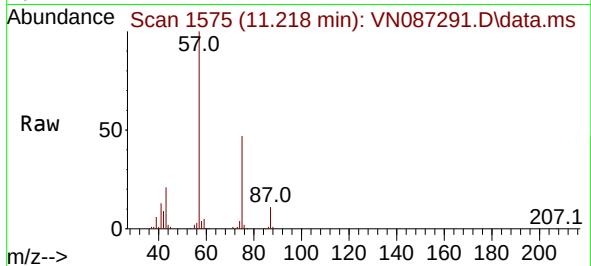




#59
2-Hexanone
Concen: 12.558 ug/l
RT: 11.218 min Scan# 1157
Delta R.T. 0.018 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

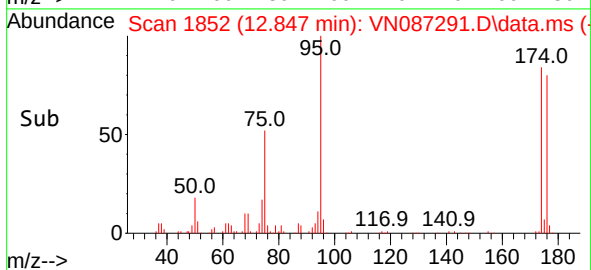
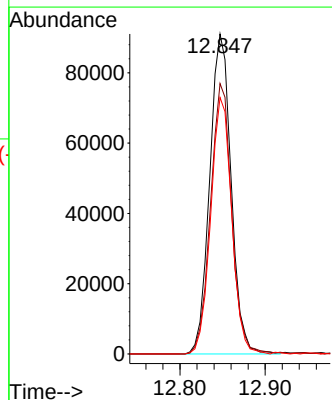
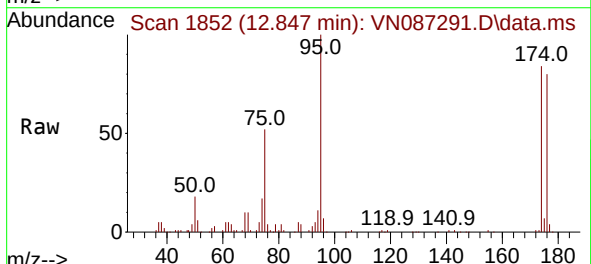
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

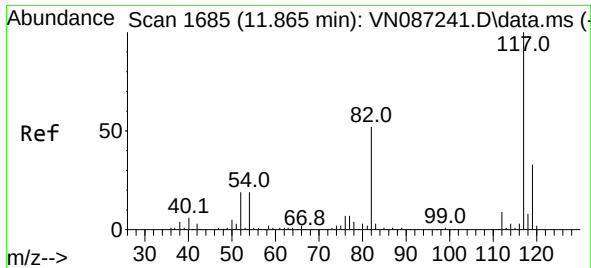
Tgt Ion: 43 Resp: 29303
Ion Ratio Lower Upper
43 100
58 31.5 31.1 93.3



#62
4-Bromofluorobenzene
Concen: 48.755 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion: 95 Resp: 158798
Ion Ratio Lower Upper
95 100
174 83.7 0.0 169.6
176 78.4 0.0 161.6

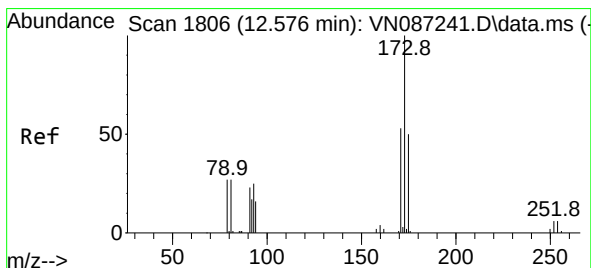
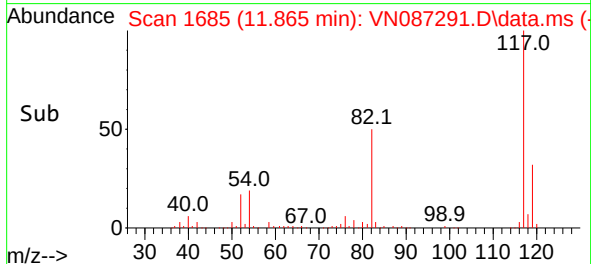
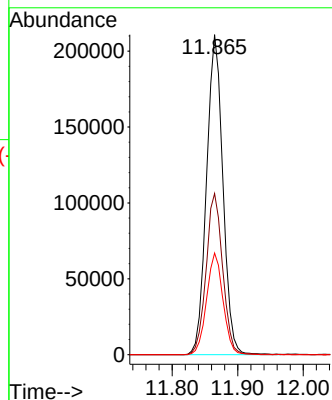
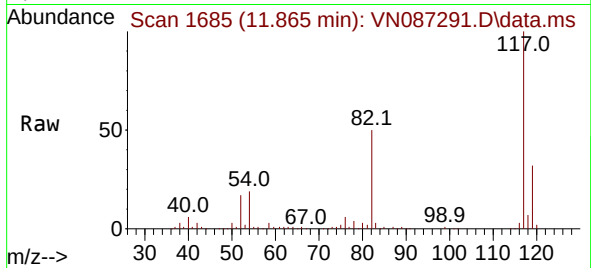




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

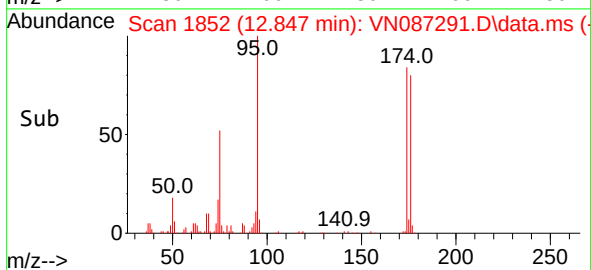
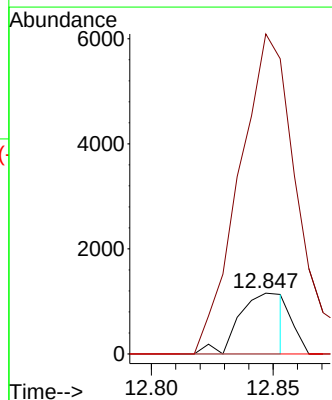
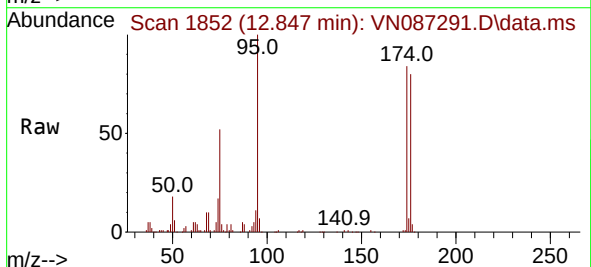
Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

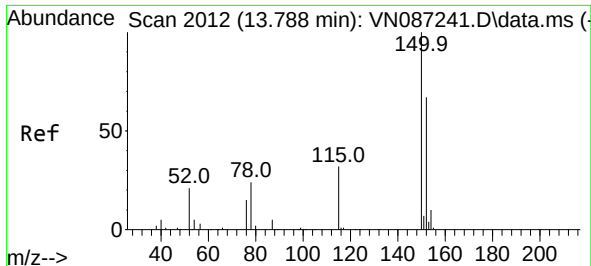
Tgt Ion:117 Resp: 365232
Ion Ratio Lower Upper
117 100
82 50.3 41.9 62.9
119 31.8 26.2 39.4



#71
Bromoform
Concen: 0.678 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Tgt Ion:173 Resp: 1480
Ion Ratio Lower Upper
173 100
175 521.3 24.6 73.6#
254 0.0 0.0 0.0

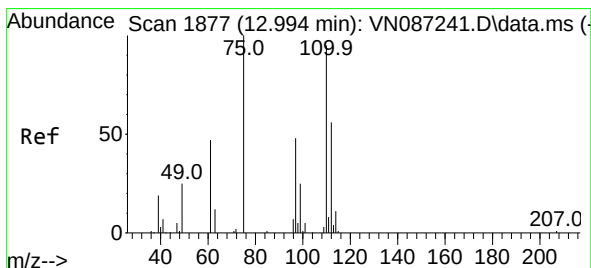
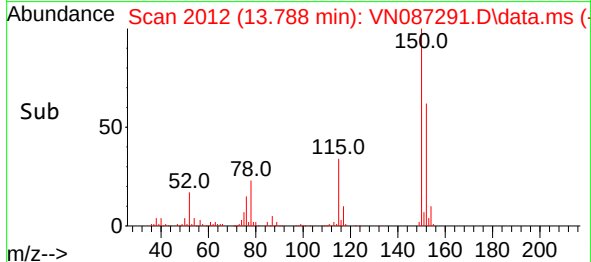
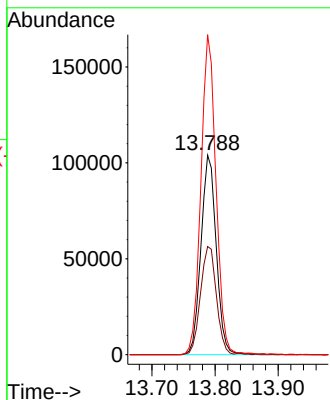
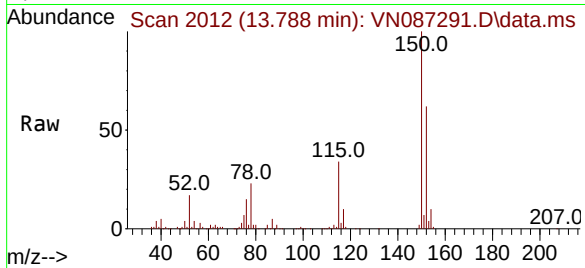




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN087291.D
 Acq: 07 Jul 2025 13:47

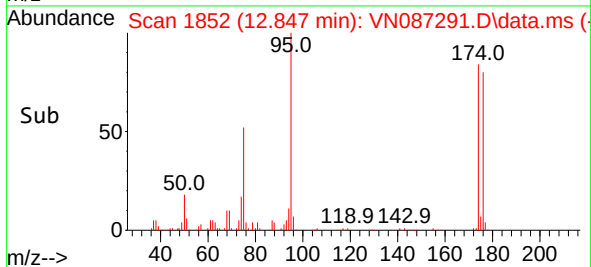
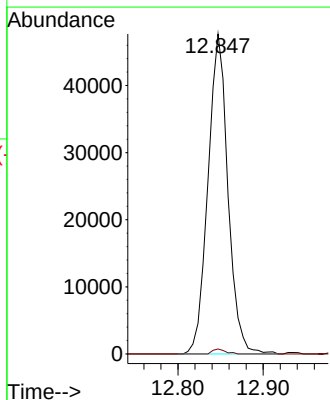
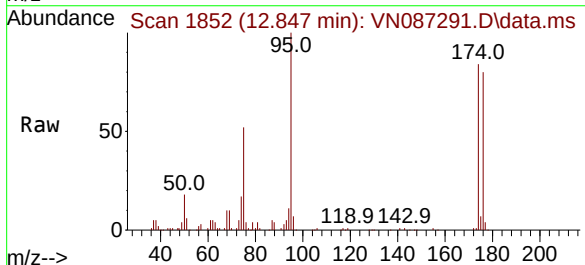
Instrument :
 MSVOA_N
 ClientSampleId :
 G1(4.5)

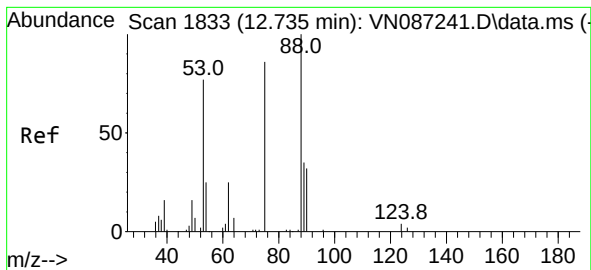
Tgt Ion:152 Resp: 175013
 Ion Ratio Lower Upper
 152 100
 115 56.2 28.3 84.9
 150 157.7 0.0 344.6



#76
 1,2,3-Trichloropropane
 Concen: 23.342 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087291.D
 Acq: 07 Jul 2025 13:47

Tgt Ion: 75 Resp: 77704
 Ion Ratio Lower Upper
 75 100
 77 1.0 82.0 245.8#





#81
trans-1,4-Dichloro-2-butene
Concen: 54.829 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087291.D
Acq: 07 Jul 2025 13:47

Instrument :
MSVOA_N
ClientSampleId :
G1(4.5)

Tgt Ion: 75 Resp: 77704
Ion Ratio Lower Upper
75 100
53 0.1 70.6 105.8#
89 0.1 36.1 54.1#

