

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070325\
 Data File : VN087278.D
 Acq On : 03 Jul 2025 17:35
 Operator : JC\MD
 Sample : Q2487-19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 G3(9)

Quant Time: Jul 04 01:35:40 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)

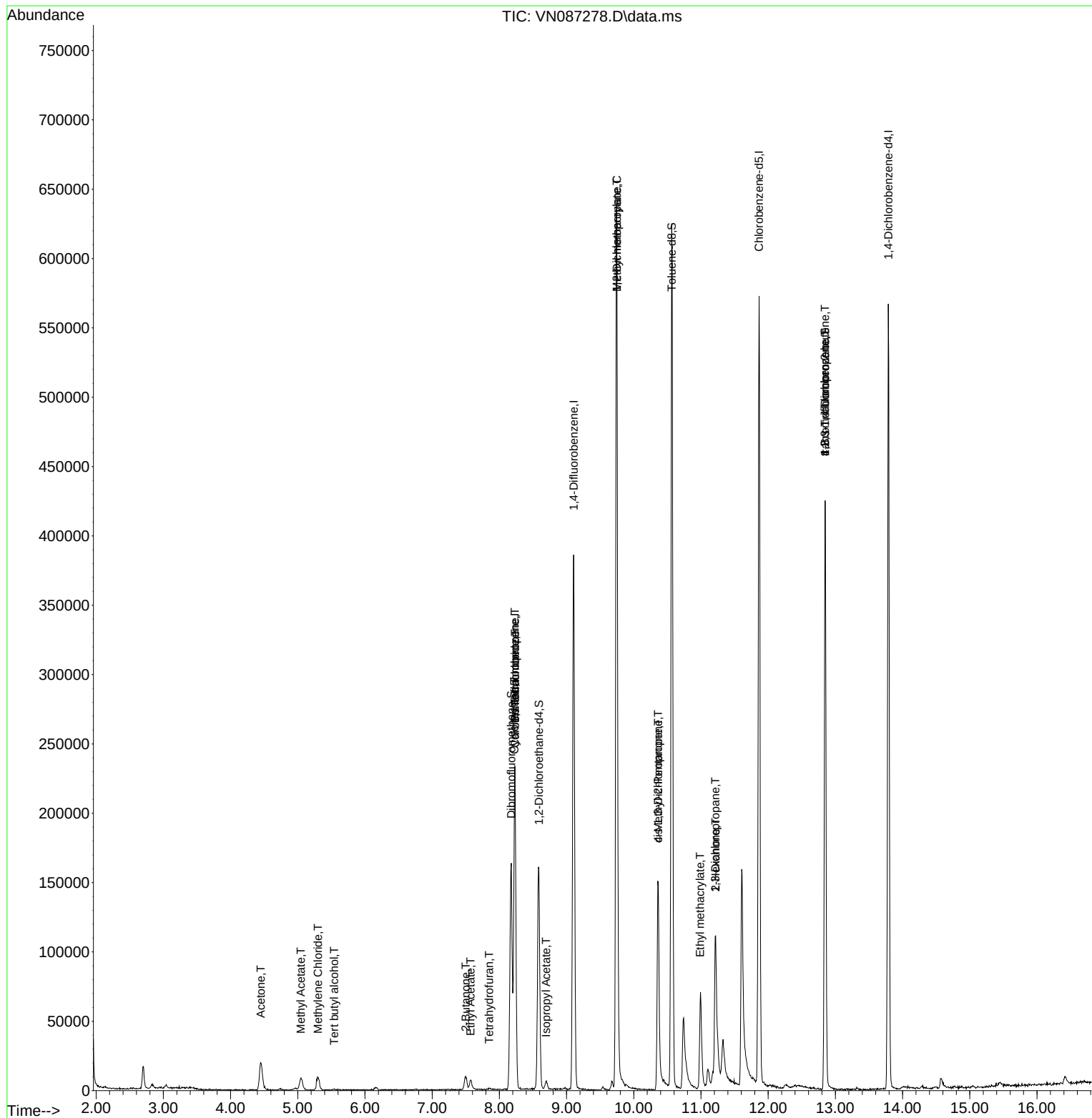
Internal Standards						
1) Pentafluorobenzene	8.230	168	180750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	348767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	343098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	135831	59.877	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.760%
35) Dibromofluoromethane	8.177	113	119454	53.491	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	106.980%
50) Toluene-d8	10.565	98	446088	51.248	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.500%
62) 4-Bromofluorobenzene	12.847	95	150843	48.704	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.400%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.542	59	1253	3.031	ug/l #	72
16) Acetone	4.448	43	40505	46.703	ug/l	98
18) Methyl Acetate	5.048	43	17746	8.938	ug/l	98
20) Methylene Chloride	5.300	84	8601	4.477	ug/l	92
25) 2-Butanone	7.500	43	16035	11.831	ug/l	98
29) Tetrahydrofuran	7.847	42	507	0.580	ug/l #	52
31) Cyclohexane	8.224	56	3350	1.084	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	13530	4.455	ug/l #	47
37) Ethyl Acetate	7.571	43	11732	3.594	ug/l	99
38) Carbon Tetrachloride	8.236	117	17822	5.179	ug/l #	15
43) Isopropyl Acetate	8.694	43	7260	1.434	ug/l	96
45) 1,2-Dichloropropane	9.747	63	723	0.352	ug/l #	45
48) Methyl methacrylate	9.747	41	63609	29.810	ug/l #	34
51) 4-Methyl-2-Pentanone	10.365	43	64834	20.930	ug/l #	43
54) cis-1,3-Dichloropropene	10.365	75	36130	9.934	ug/l #	63
56) Ethyl methacrylate	10.988	69	849	0.249	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	1521	0.400	ug/l #	41
59) 2-Hexanone	11.218	43	19065	8.592	ug/l	62
76) 1,2,3-Trichloropropane	12.847	75	74597	24.202	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74597	56.848	ug/l #	14

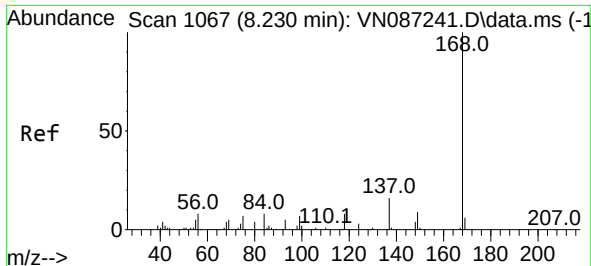
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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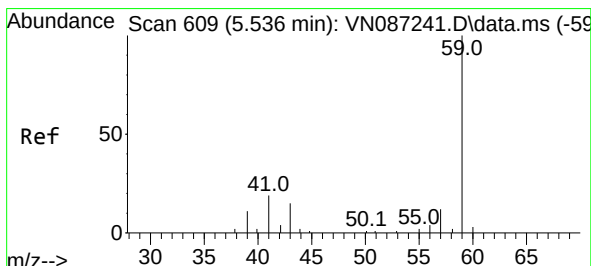
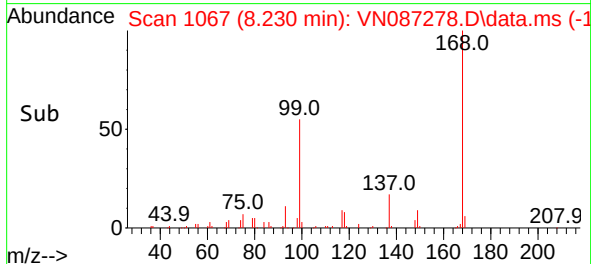
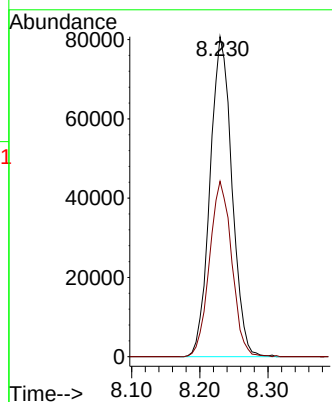
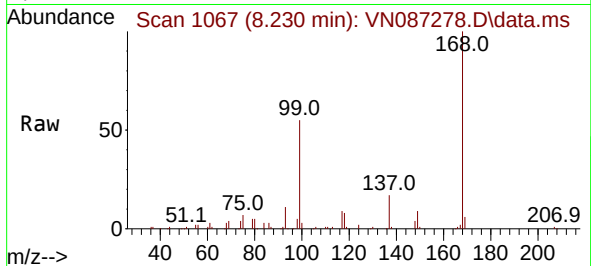




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

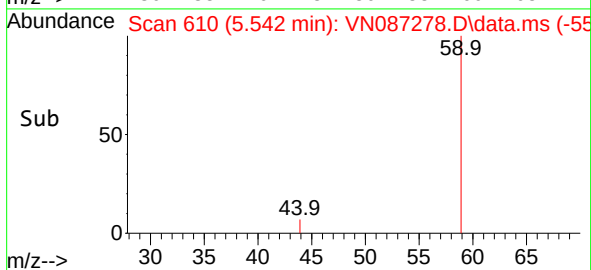
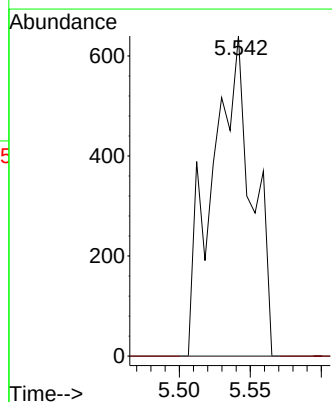
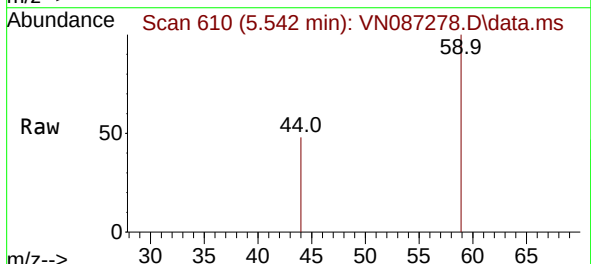
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

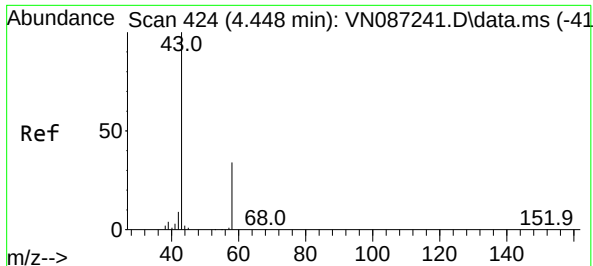
Tgt Ion:168 Resp: 180750
Ion Ratio Lower Upper
168 100
99 54.8 42.6 64.0



#11
Tert butyl alcohol
Concen: 3.031 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 59 Resp: 1253
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 46.703 ug/l

RT: 4.448 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

Instrument :

MSVOA_N

ClientSampleId :

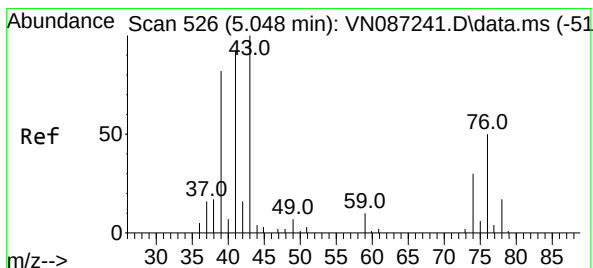
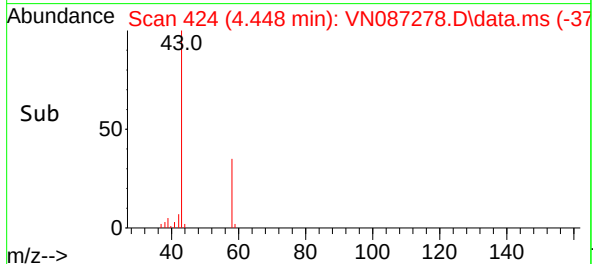
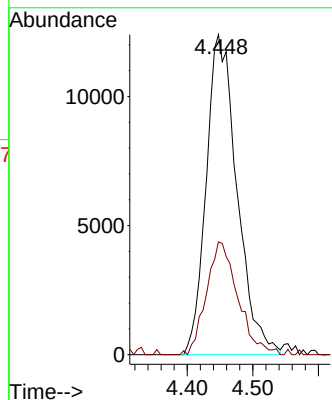
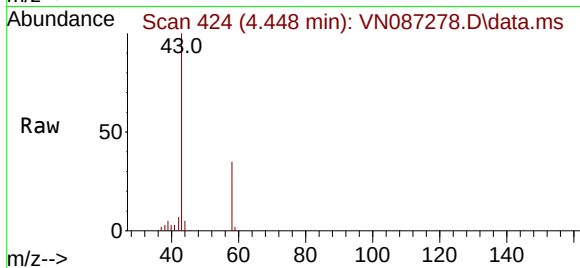
G3(9)

Tgt Ion: 43 Resp: 40505

Ion Ratio Lower Upper

43 100

58 35.2 27.1 40.7



#18

Methyl Acetate

Concen: 8.938 ug/l

RT: 5.048 min Scan# 526

Delta R.T. -0.000 min

Lab File: VN087278.D

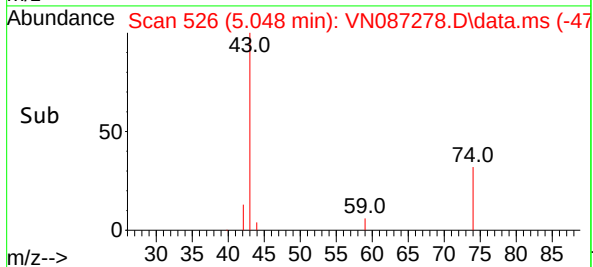
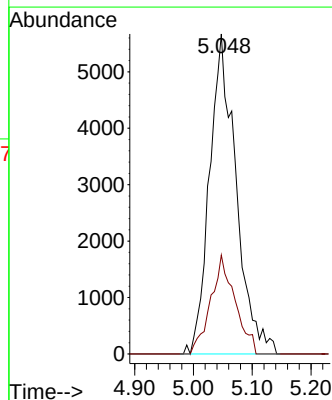
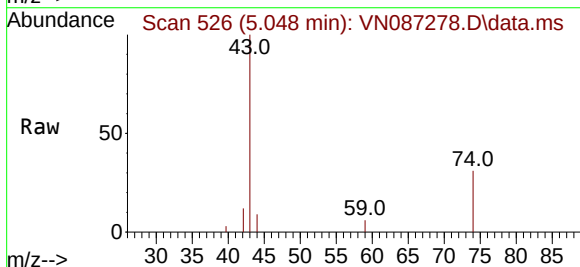
Acq: 03 Jul 2025 17:35

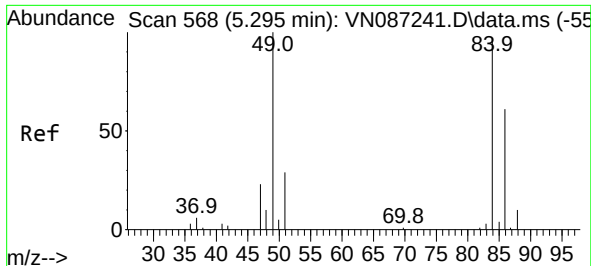
Tgt Ion: 43 Resp: 17746

Ion Ratio Lower Upper

43 100

74 28.4 23.8 35.6

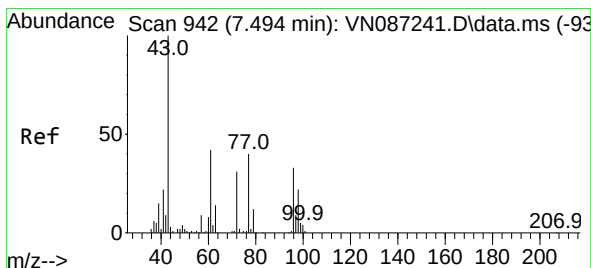
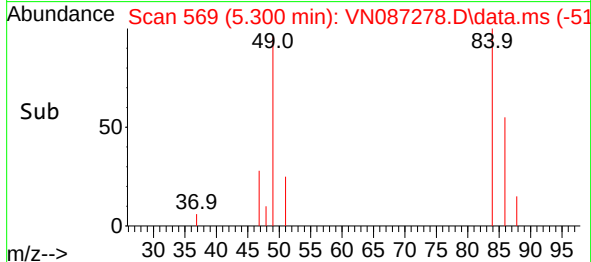
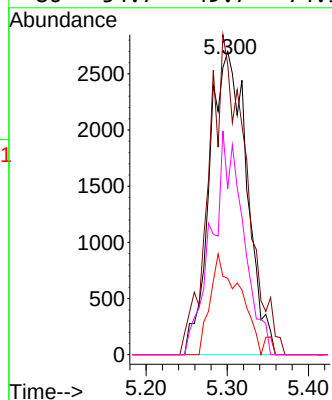
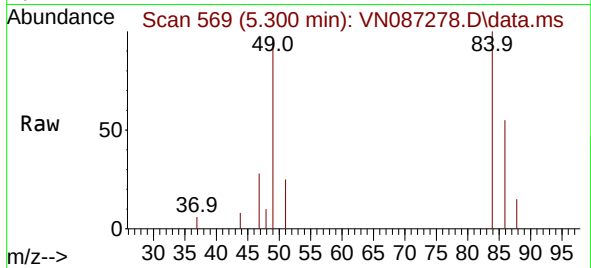




#20
Methylene Chloride
Concen: 4.477 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

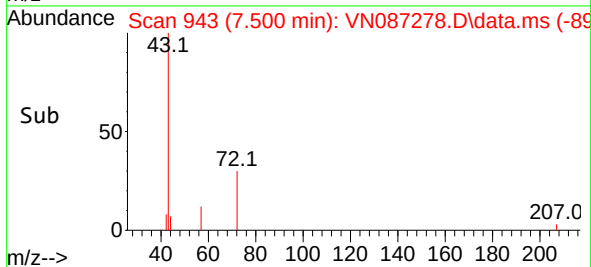
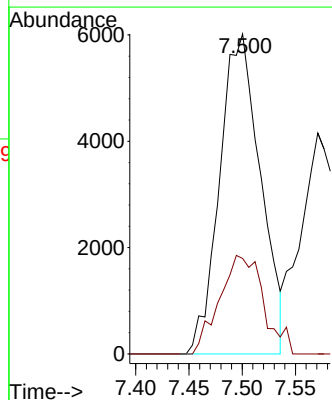
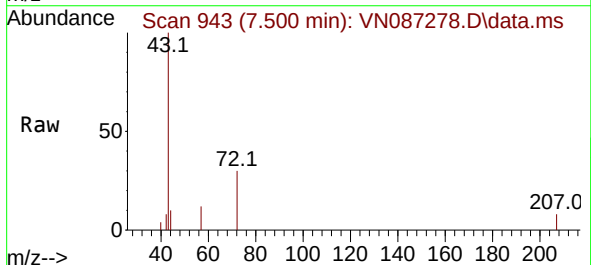
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

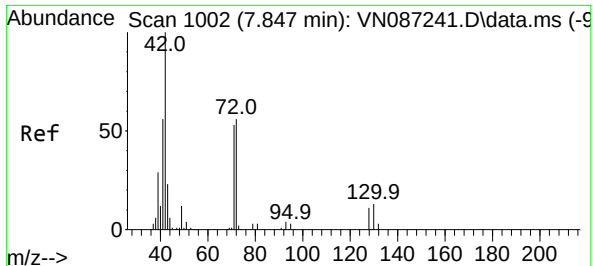
Tgt Ion:	84	Resp:	8601
Ion	Ratio	Lower	Upper
84	100		
49	95.7	82.1	123.1
51	25.2	23.5	35.3
86	54.7	49.7	74.5



#25
2-Butanone
Concen: 11.831 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion:	43	Resp:	16035
Ion	Ratio	Lower	Upper
43	100		
72	29.8	24.8	37.2





#29

Tetrahydrofuran

Concen: 0.580 ug/l

RT: 7.847 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

Instrument :

MSVOA_N

ClientSampleId :

G3(9)

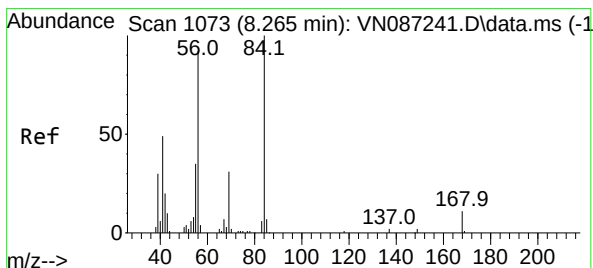
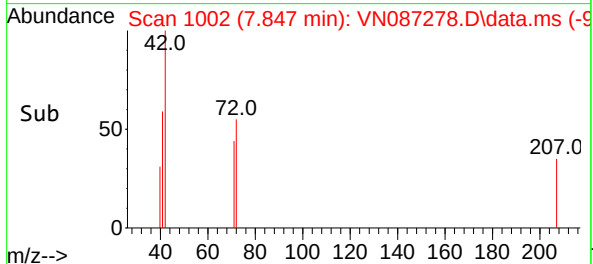
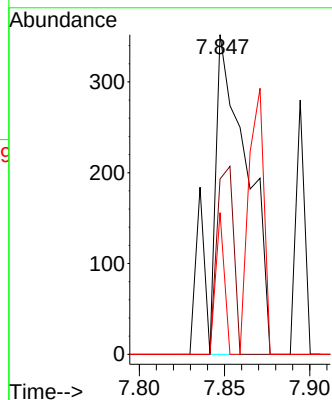
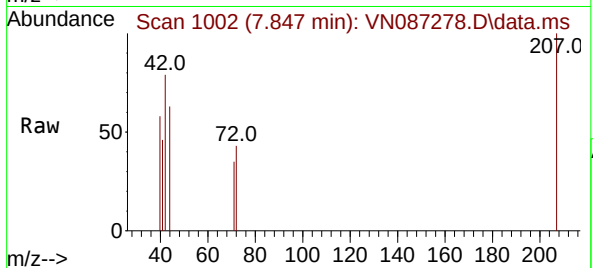
Tgt Ion: 42 Resp: 507

Ion Ratio Lower Upper

42 100

72 27.8 44.2 66.4#

71 10.8 41.1 61.7#



#31

Cyclohexane

Concen: 1.084 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

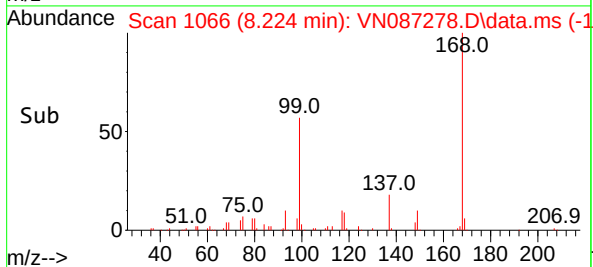
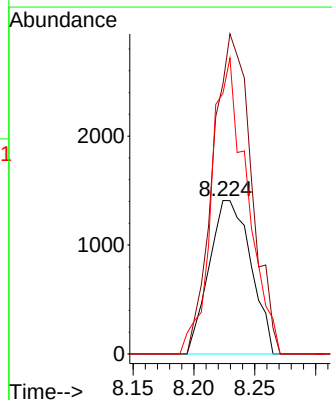
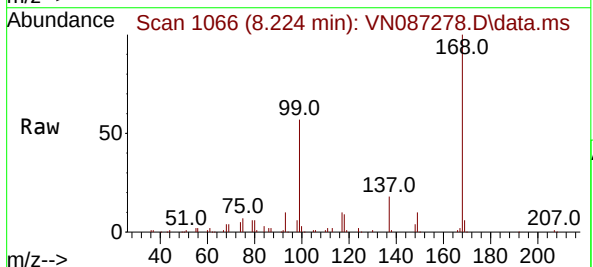
Tgt Ion: 56 Resp: 3350

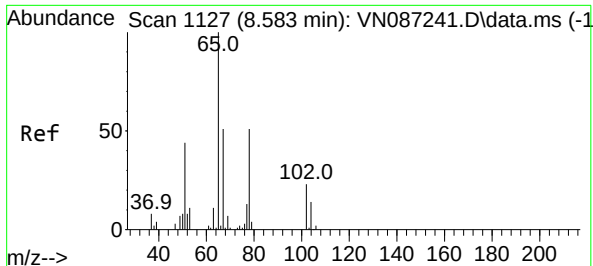
Ion Ratio Lower Upper

56 100

69 175.8 27.0 40.6#

84 169.8 86.2 129.4#





#33

1,2-Dichloroethane-d4

Concen: 59.877 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

Instrument :

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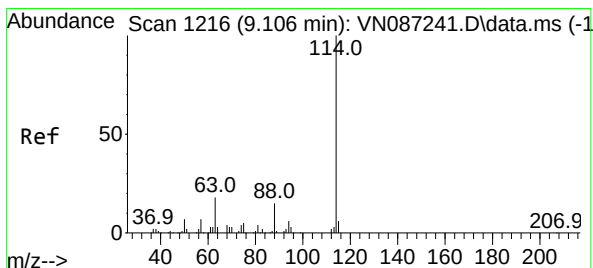
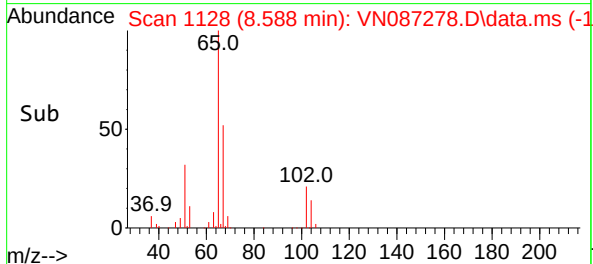
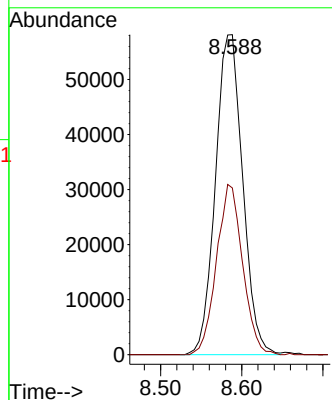
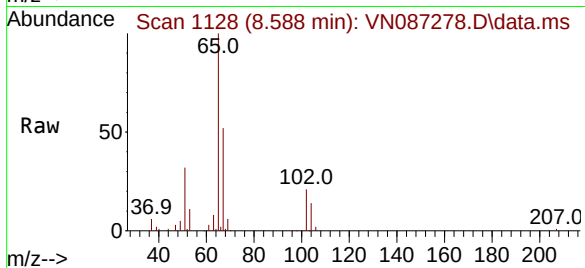
G3(9)

Tgt Ion: 65 Resp: 135831

Ion Ratio Lower Upper

65 100

67 50.9 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: VN087278.D

Acq: 03 Jul 2025 17:35

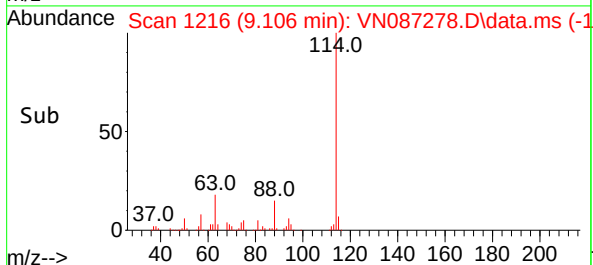
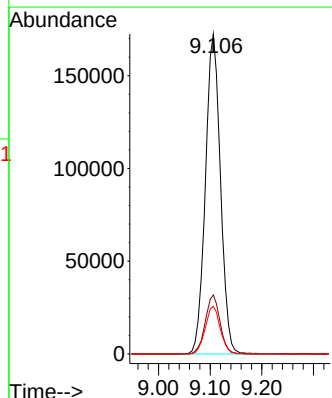
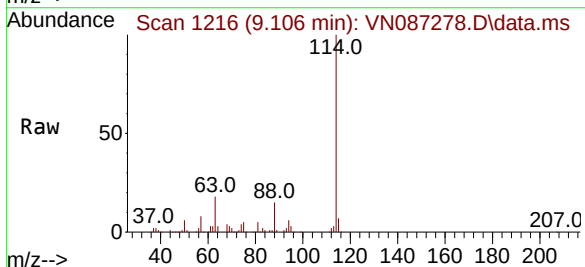
Tgt Ion: 114 Resp: 348767

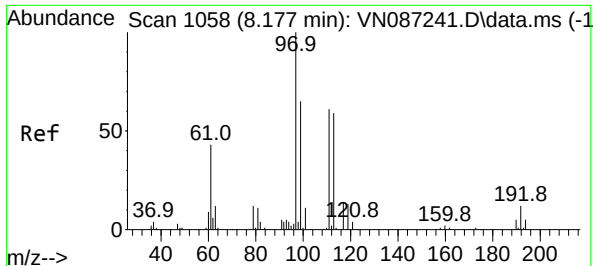
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.6

88 14.9 0.0 29.6





#35

Dibromofluoromethane

Concen: 53.491 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

Instrument :

MSVOA_N

ClientSampleId :

G3(9)

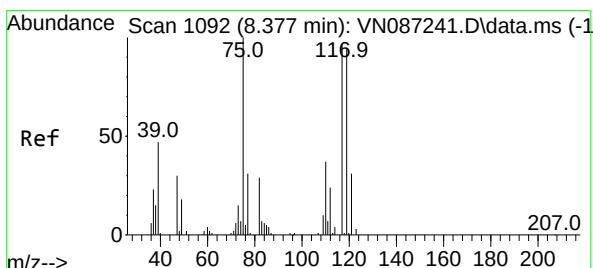
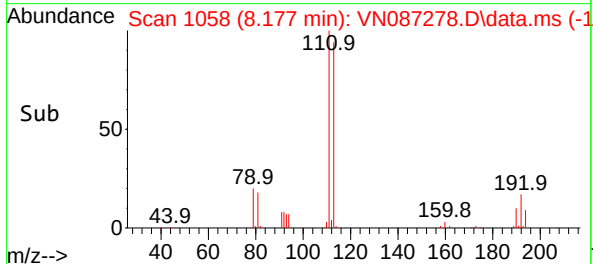
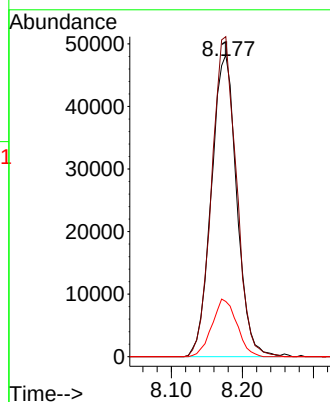
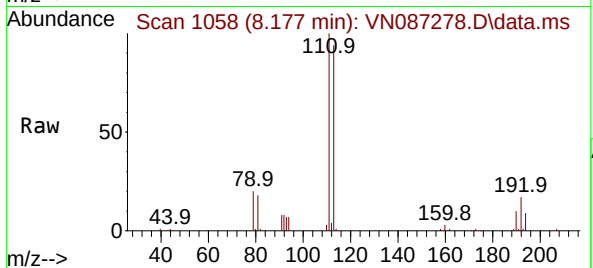
Tgt Ion:113 Resp: 119454

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.2

192 18.8 15.1 22.7



#36

1,1-Dichloropropene

Concen: 4.455 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087278.D

Acq: 03 Jul 2025 17:35

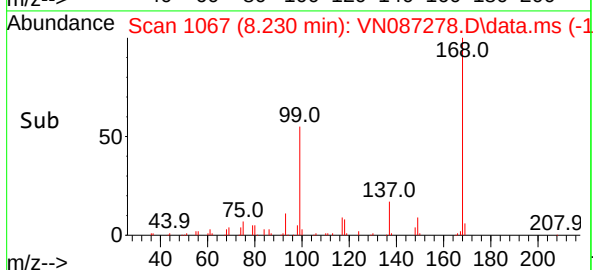
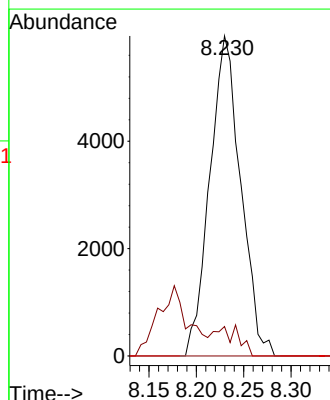
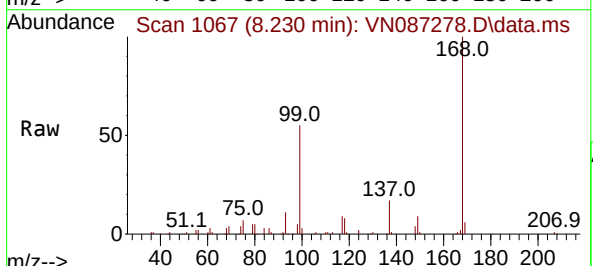
Tgt Ion: 75 Resp: 13530

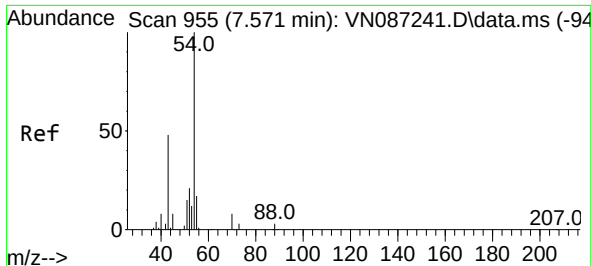
Ion Ratio Lower Upper

75 100

110 7.2 18.7 56.1#

77 0.0 24.5 36.7#

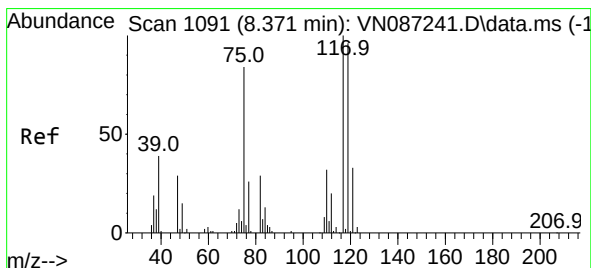
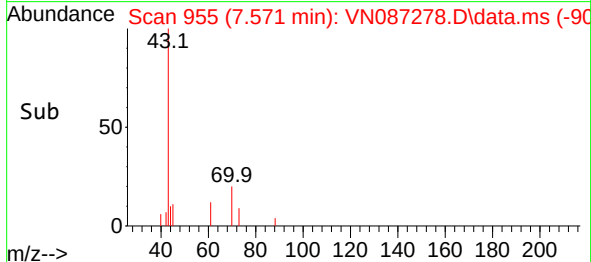
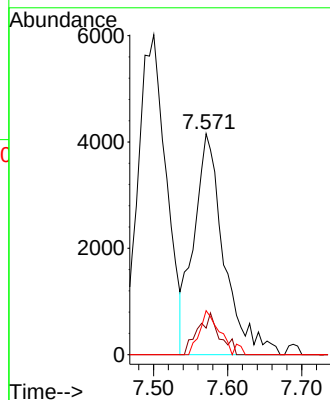
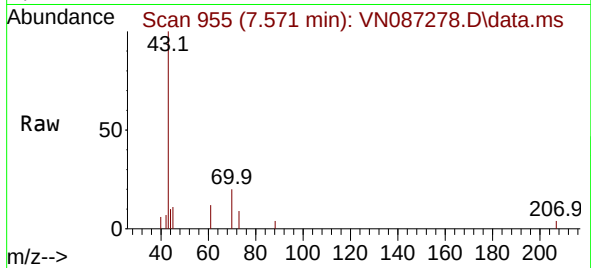




#37
Ethyl Acetate
Concen: 3.594 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

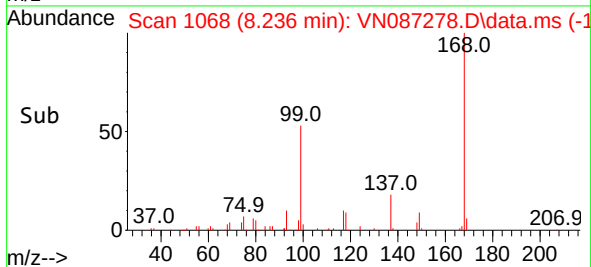
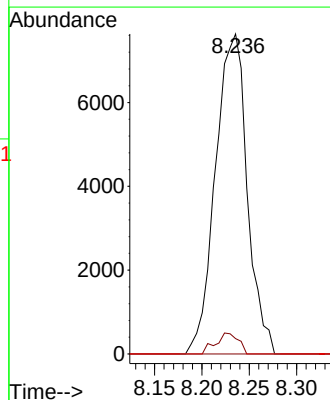
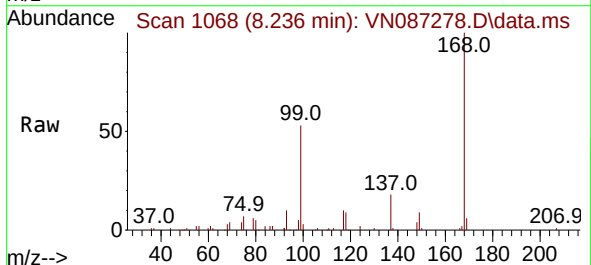
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

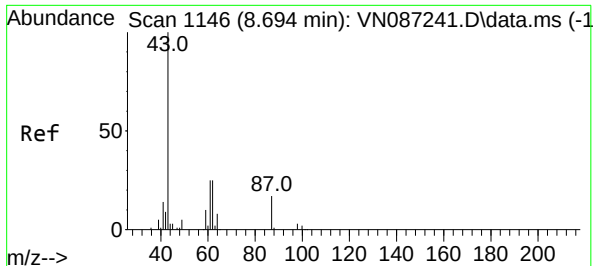
Tgt Ion:	43	Resp:	11732
Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.3	16.9
70	12.7	9.9	14.9



#38
Carbon Tetrachloride
Concen: 5.179 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion:	117	Resp:	17822
Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.2	115.8#
121	0.0	26.6	39.8#

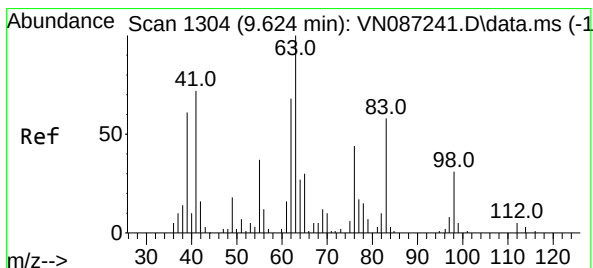
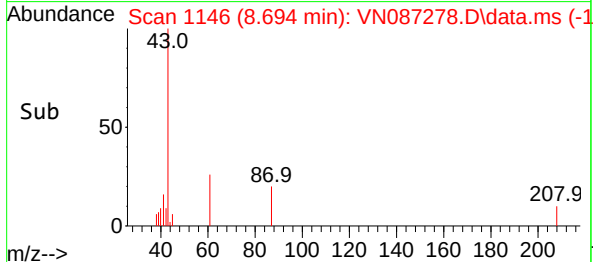
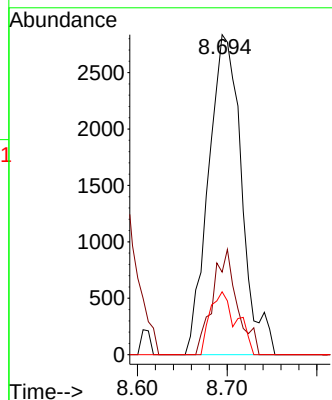
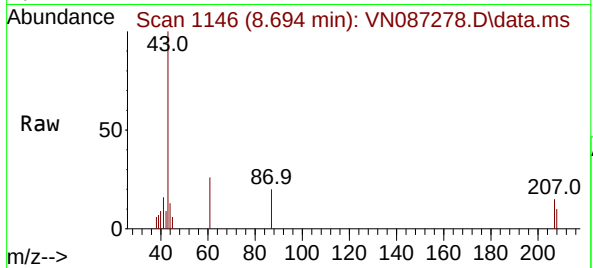




#43
Isopropyl Acetate
Concen: 1.434 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

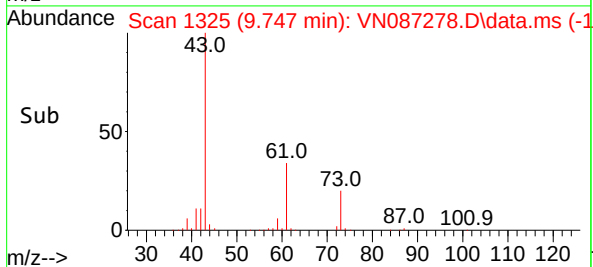
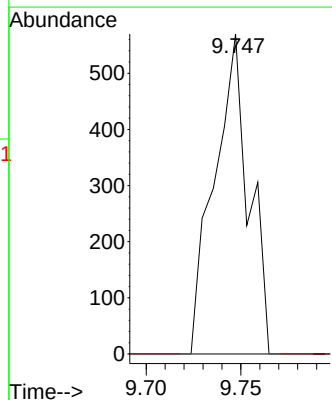
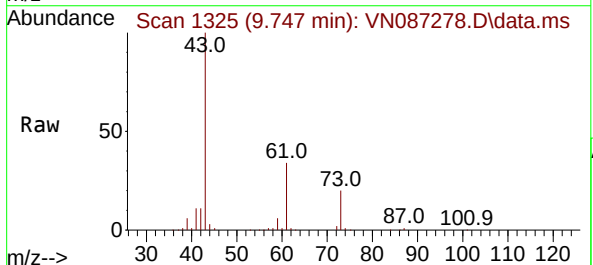
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

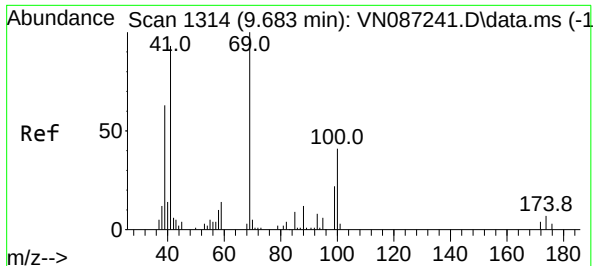
Tgt Ion:	43	Resp:	7260
Ion	Ratio	Lower	Upper
43	100		
61	24.5	22.4	33.6
87	15.9	12.8	19.2



#45
1,2-Dichloropropane
Concen: 0.352 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion:	63	Resp:	723
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.8	35.8#

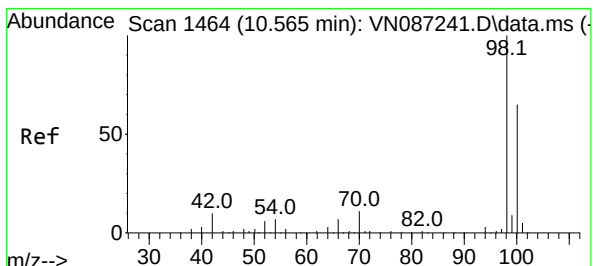
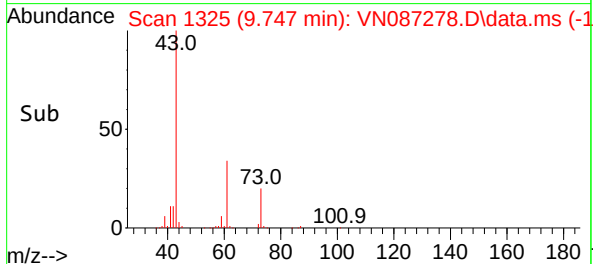
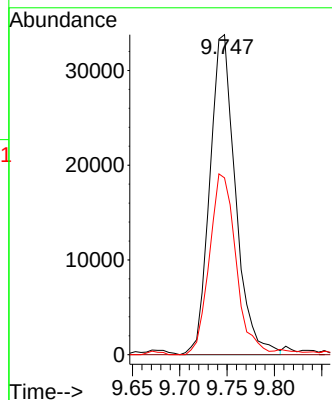
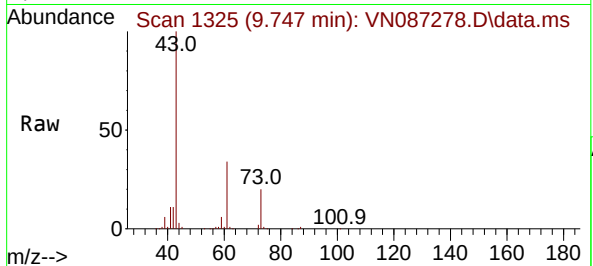




#48
Methyl methacrylate
Concen: 29.810 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

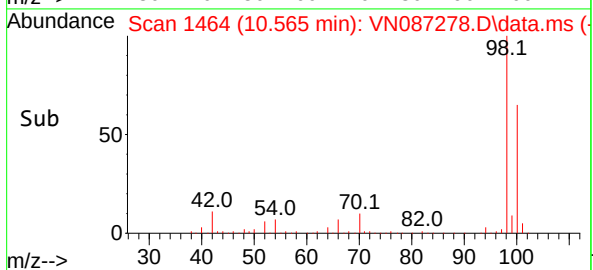
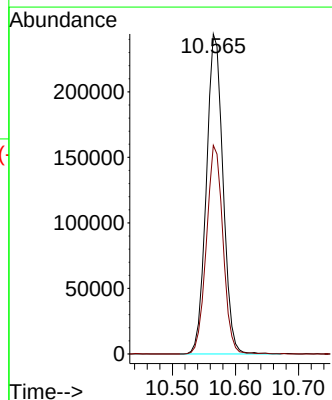
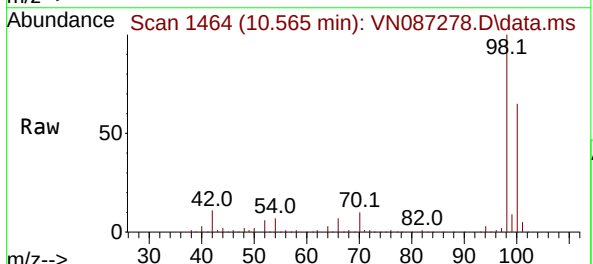
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

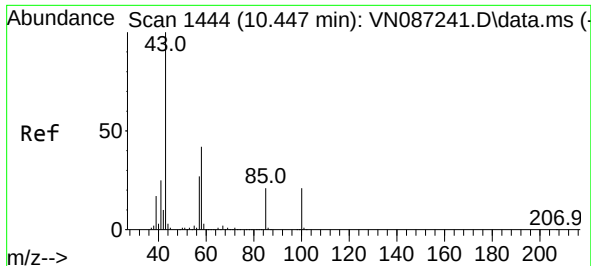
Tgt Ion: 41 Resp: 63609
Ion Ratio Lower Upper
41 100
69 0.0 81.4 122.2#
39 58.5 56.9 85.3



#50
Toluene-d8
Concen: 51.248 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 98 Resp: 446088
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1

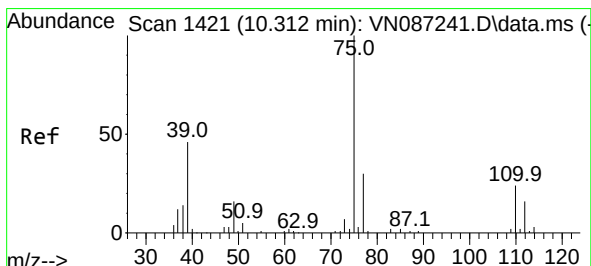
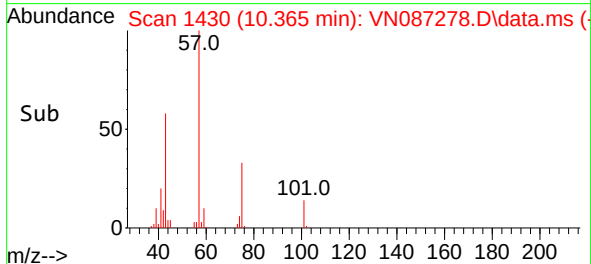
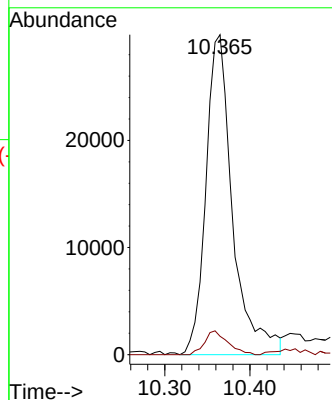
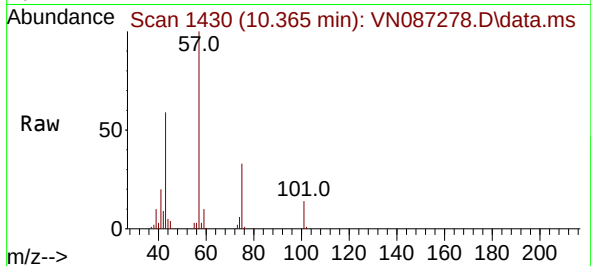




#51
4-Methyl-2-Pentanone
Concen: 20.930 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

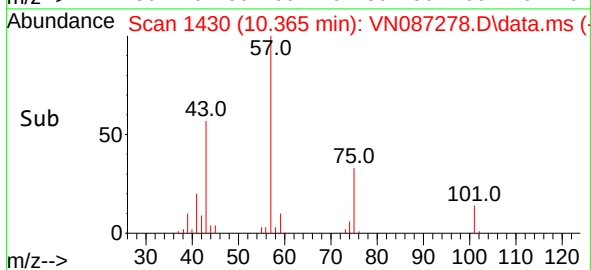
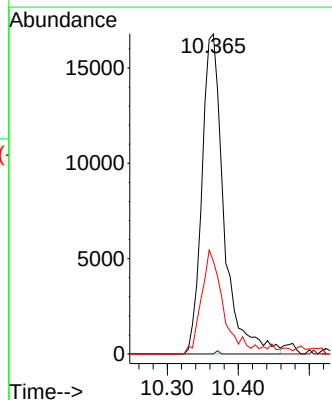
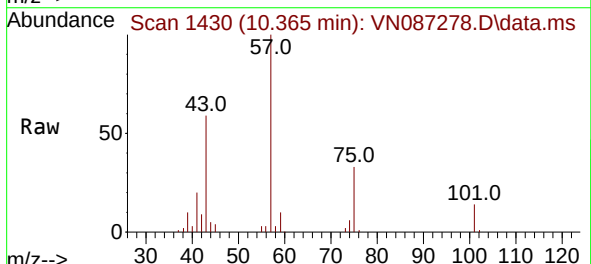
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

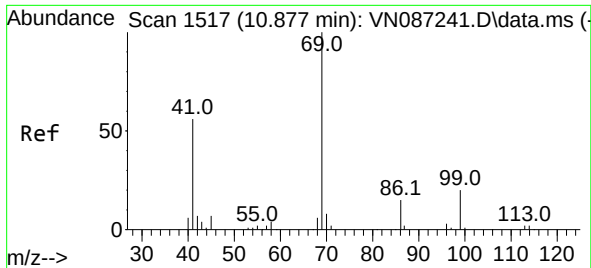
Tgt Ion: 43 Resp: 64834
Ion Ratio Lower Upper
43 100
58 6.5 34.2 51.2#



#54
cis-1,3-Dichloropropene
Concen: 9.934 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.053 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 75 Resp: 36130
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#
39 29.0 36.7 55.1#

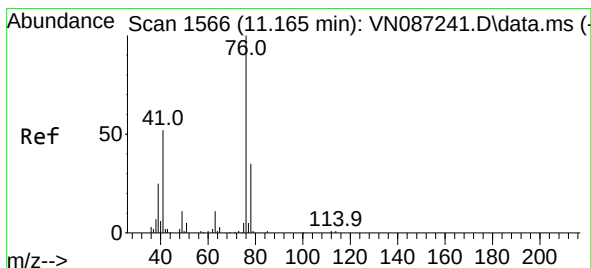
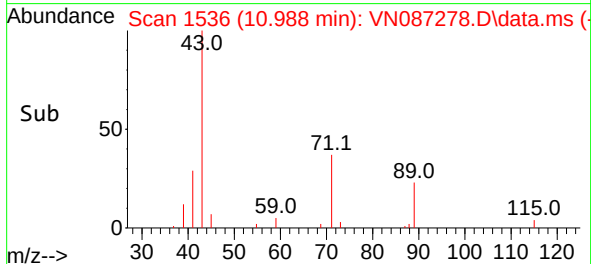
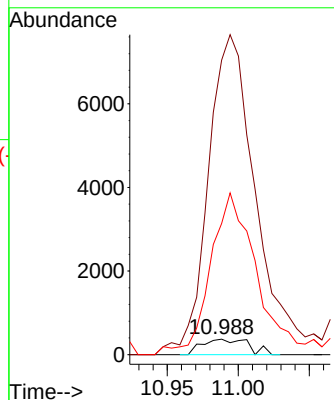
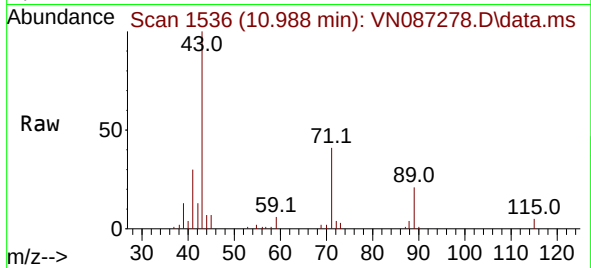




#56
Ethyl methacrylate
Concen: 0.249 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.111 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

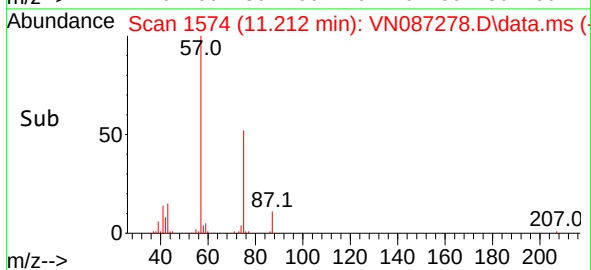
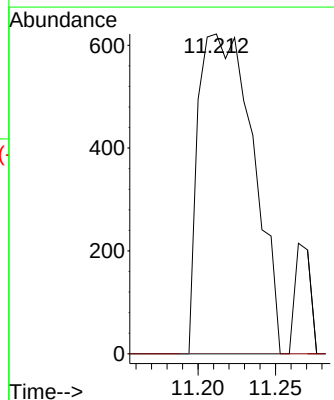
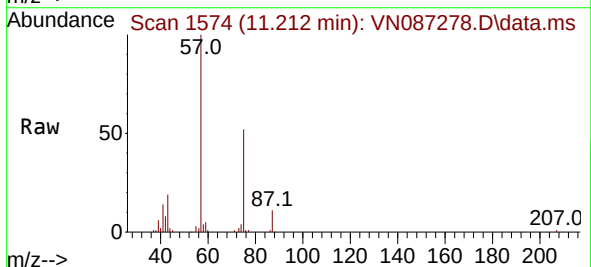
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

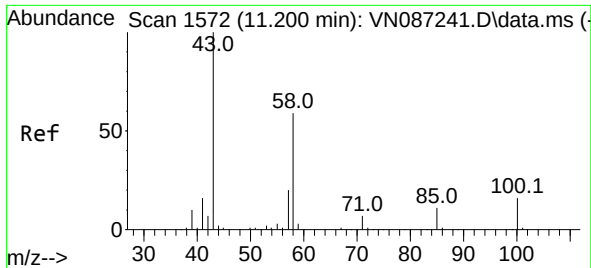
Tgt Ion: 69 Resp: 849
Ion Ratio Lower Upper
69 100
41 2086.0 44.2 66.4#
39 1022.4 29.5 44.3#



#57
1,3-Dichloropropane
Concen: 0.400 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 76 Resp: 1521
Ion Ratio Lower Upper
76 100
78 0.0 27.1 40.7#

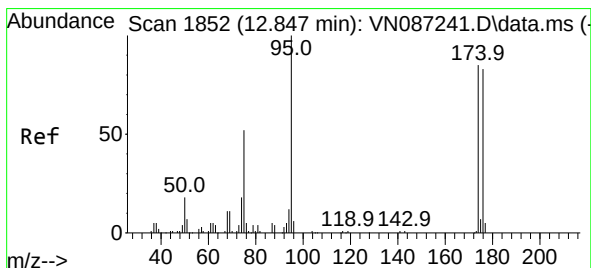
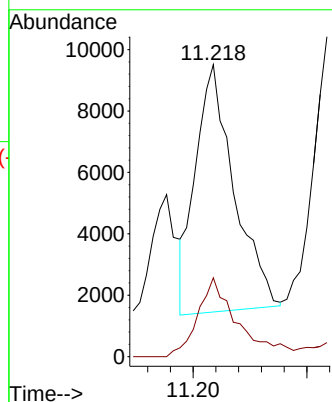
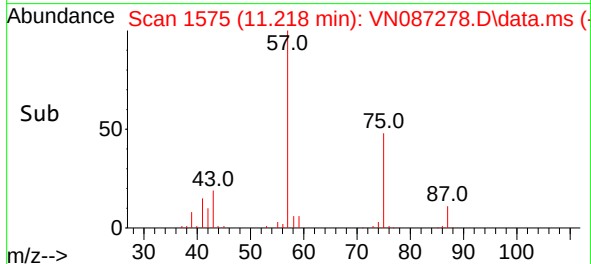
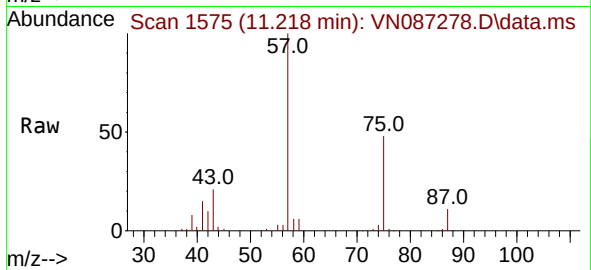




#59
2-Hexanone
Concen: 8.592 ug/l
RT: 11.218 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

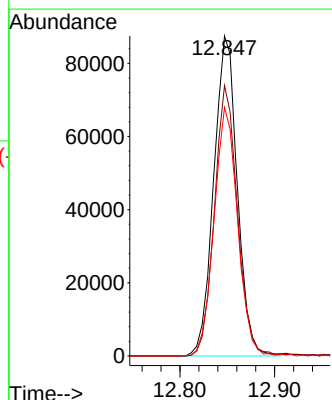
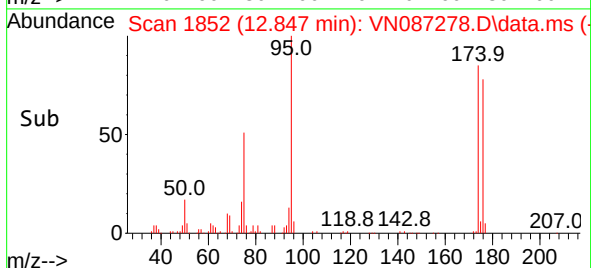
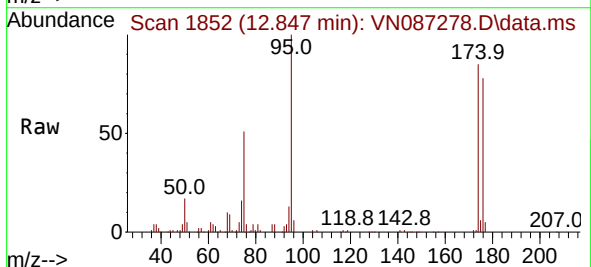
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

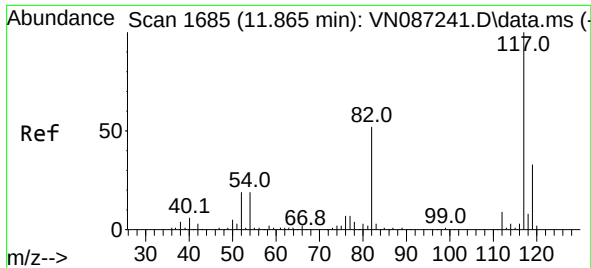
Tgt Ion: 43 Resp: 19065
Ion Ratio Lower Upper
43 100
58 32.6 31.1 93.3



#62
4-Bromofluorobenzene
Concen: 48.704 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 95 Resp: 150843
Ion Ratio Lower Upper
95 100
174 83.0 0.0 169.6
176 77.9 0.0 161.6

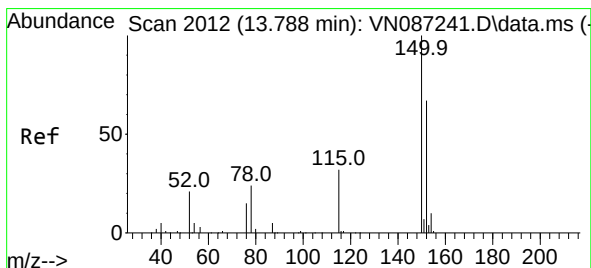
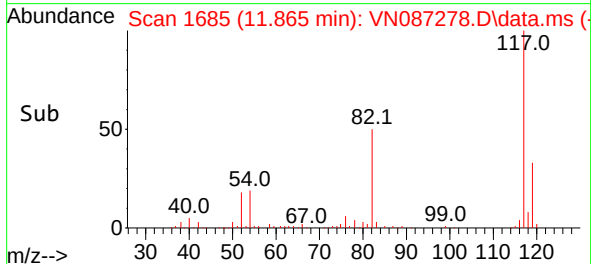
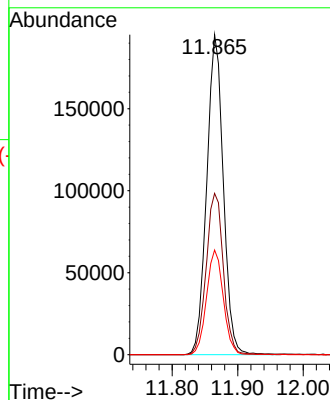
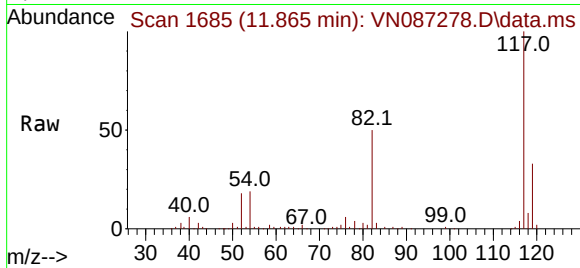




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

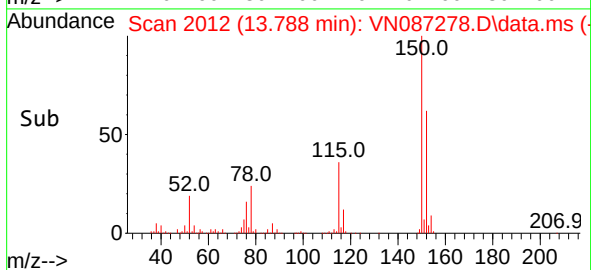
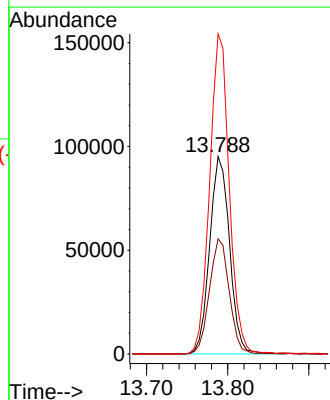
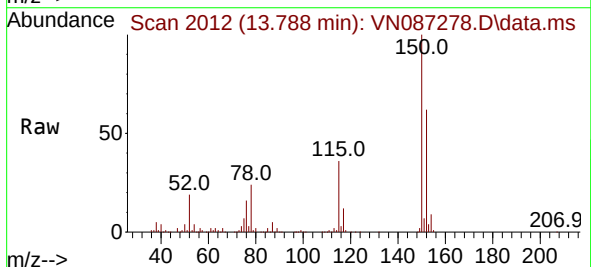
Instrument :
MSVOA_N
ClientSampleId :
G3(9)

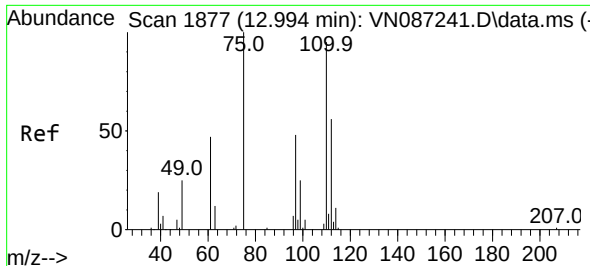
Tgt Ion:117 Resp: 343098
Ion Ratio Lower Upper
117 100
82 50.4 41.9 62.9
119 32.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion:152 Resp: 162048
Ion Ratio Lower Upper
152 100
115 58.0 28.3 84.9
150 159.1 0.0 344.6

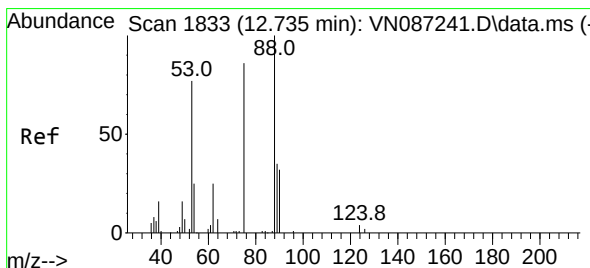
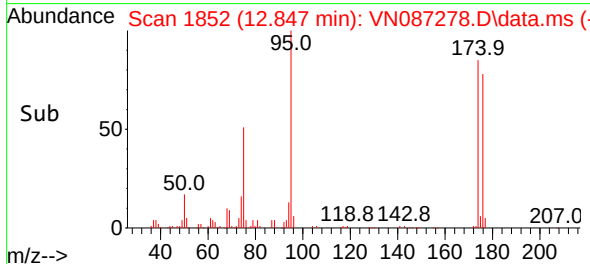
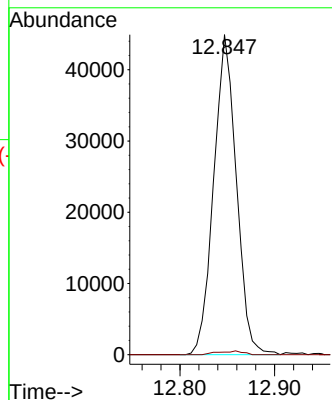
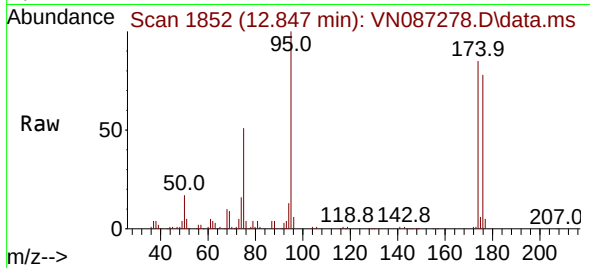




#76
1,2,3-Trichloropropane
Concen: 24.202 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Instrument :
MSVOA_N
ClientSampleId :
G3(9)

Tgt Ion: 75 Resp: 74597
Ion Ratio Lower Upper
75 100
77 1.3 82.0 245.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.848 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087278.D
Acq: 03 Jul 2025 17:35

Tgt Ion: 75 Resp: 74597
Ion Ratio Lower Upper
75 100
53 0.0 70.6 105.8#
89 0.0 36.1 54.1#

