

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086604.D
 Acq On : 13 May 2025 16:12
 Operator : JC\MD
 Sample : PB167964ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#02

Quant Time: May 14 01:46:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	167122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324215	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	319280	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135672	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121706	50.221	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.440%
35) Dibromofluoromethane	8.165	113	96306	64.002	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	128.000%#
50) Toluene-d8	10.565	98	417086	51.864	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.720%
62) 4-Bromofluorobenzene	12.847	95	149308	50.902	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.800%

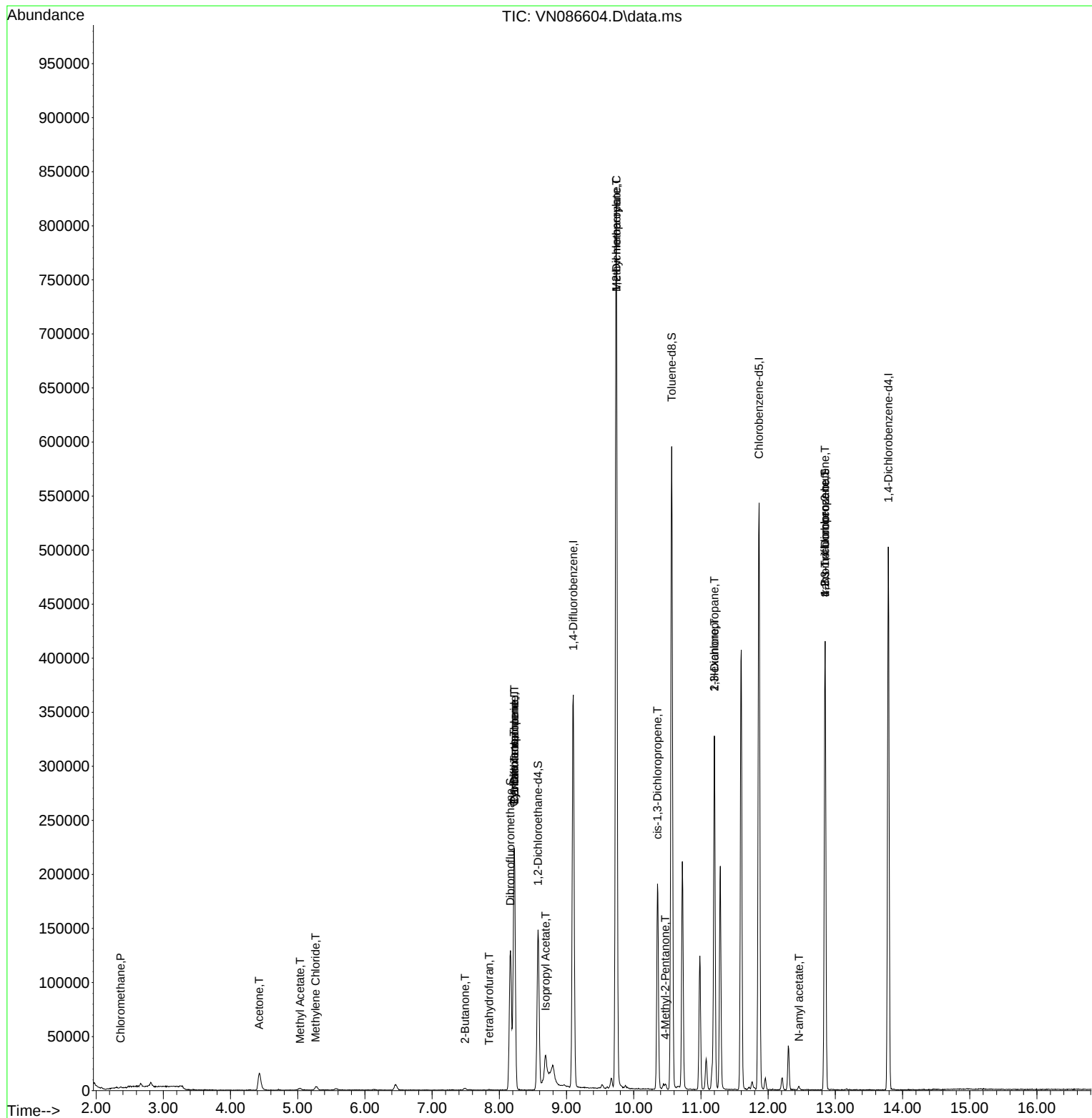
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	722	0.251	ug/l #	42
16) Acetone	4.424	43	31095	32.138	ug/l	98
18) Methyl Acetate	5.036	43	3471	1.193	ug/l	92
20) Methylene Chloride	5.265	84	2748	1.227	ug/l #	87
25) 2-Butanone	7.489	43	3291	2.182	ug/l #	78
29) Tetrahydrofuran	7.847	42	290	0.287	ug/l #	32
31) Cyclohexane	8.218	56	3688	0.939	ug/l #	19
36) 1,1-Dichloropropene	8.224	75	13967	4.647	ug/l #	48
38) Carbon Tetrachloride	8.224	117	17082	5.968	ug/l #	17
43) Isopropyl Acetate	8.688	43	50640	7.183	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	1065	0.452	ug/l #	43
48) Methyl methacrylate	9.741	41	73277	26.372	ug/l #	44
51) 4-Methyl-2-Pentanone	10.471	43	4105	1.267	ug/l #	35
54) cis-1,3-Dichloropropene	10.353	75	35800	9.002	ug/l #	57
57) 1,3-Dichloropropane	11.200	76	3297	0.860	ug/l #	43
59) 2-Hexanone	11.200	43	60251	25.070	ug/l #	43
74) N-amyl acetate	12.459	43	3392	0.614	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	75860	23.694	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75860	56.904	ug/l #	10

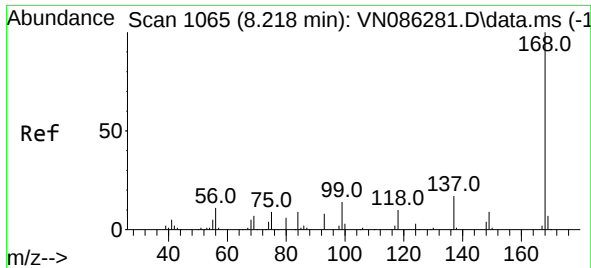
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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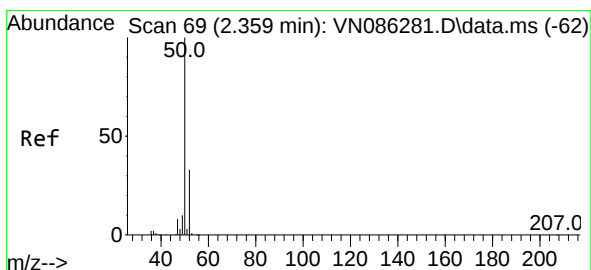
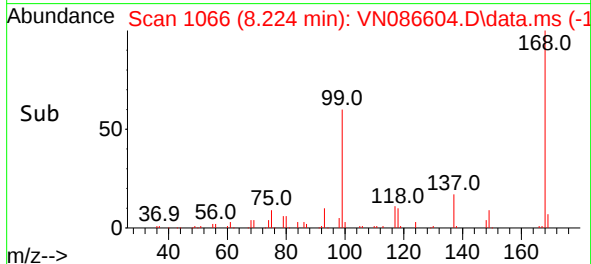
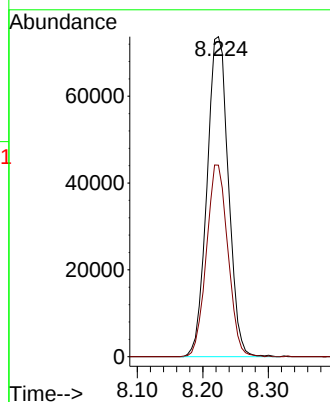
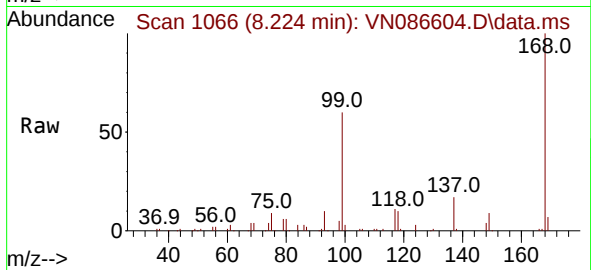




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

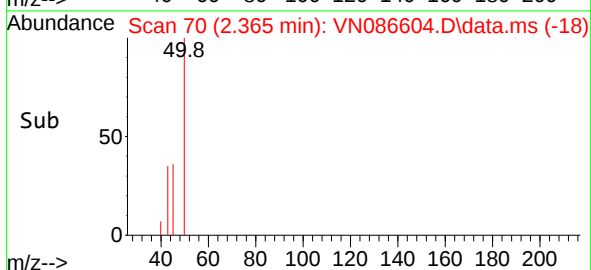
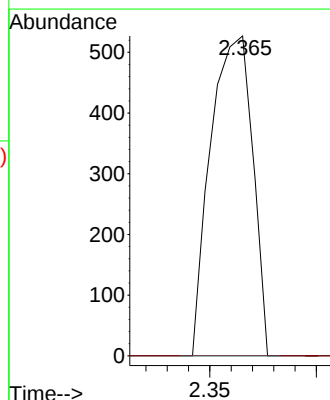
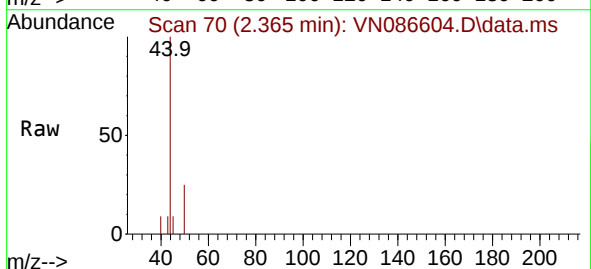
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

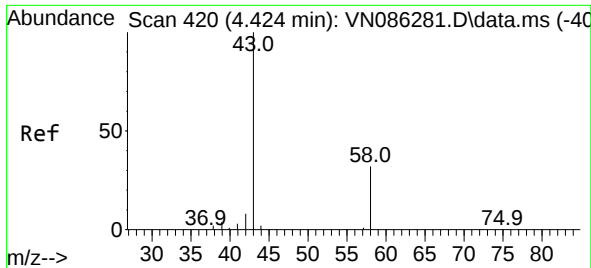
Tgt Ion:168 Resp: 167122
Ion Ratio Lower Upper
168 100
99 59.9 52.5 78.7



#3
Chloromethane
Concen: 0.251 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion: 50 Resp: 722
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

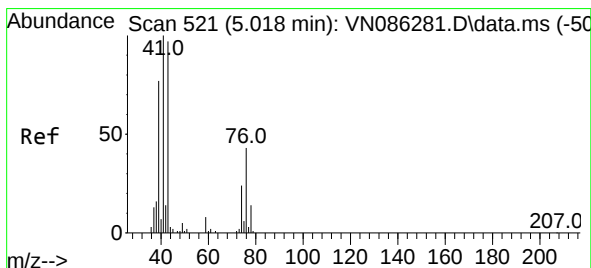
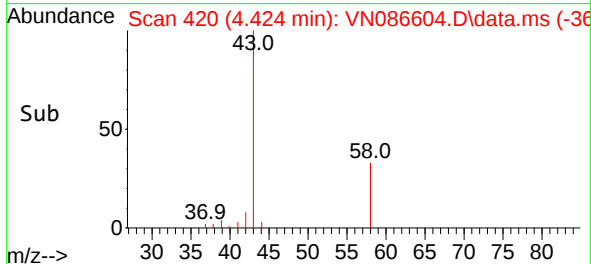
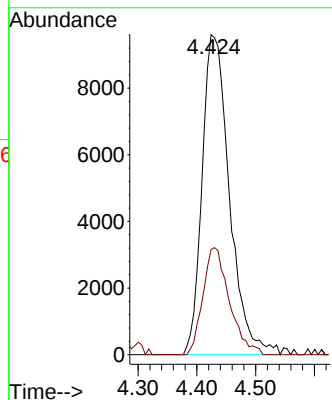
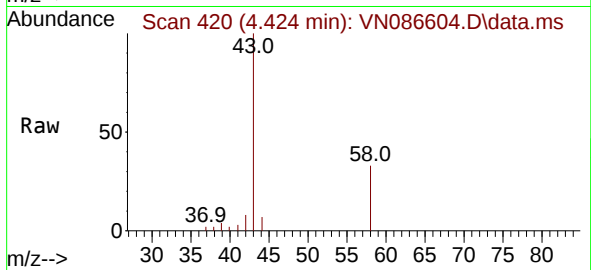




#16
Acetone
Concen: 32.138 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

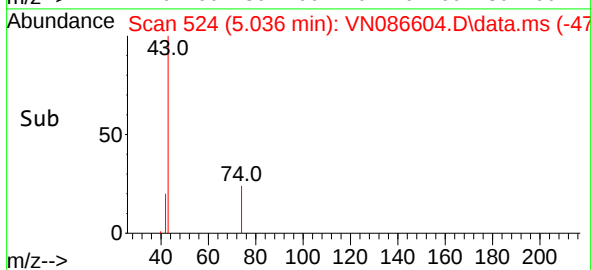
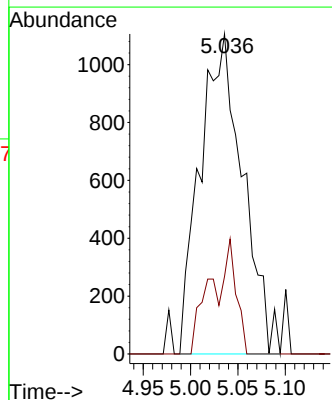
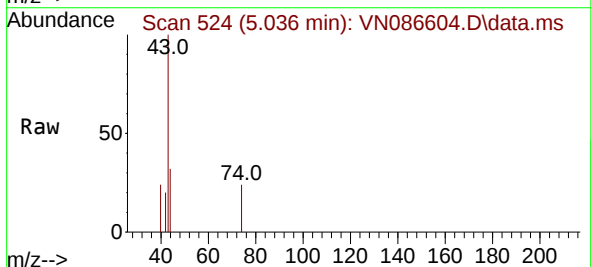
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

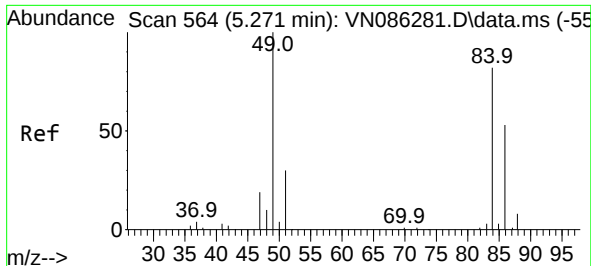
Tgt Ion: 43 Resp: 31095
Ion Ratio Lower Upper
43 100
58 32.9 25.3 37.9



#18
Methyl Acetate
Concen: 1.193 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

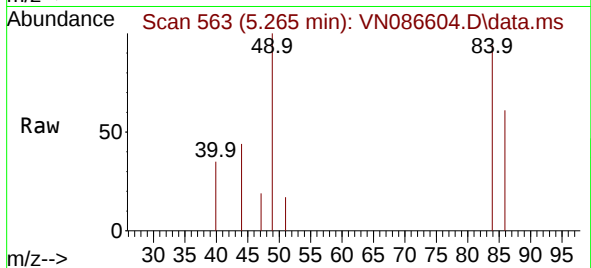
Tgt Ion: 43 Resp: 3471
Ion Ratio Lower Upper
43 100
74 20.8 19.8 29.6



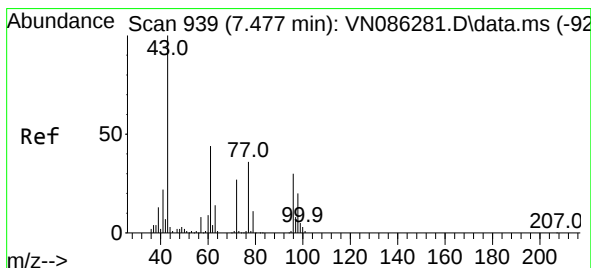
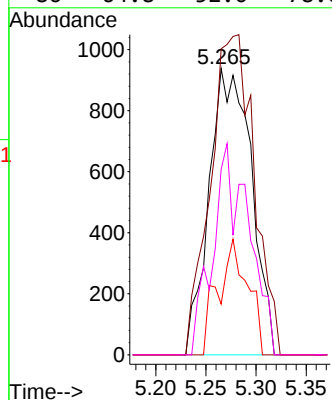


#20
Methylene Chloride
Concen: 1.227 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

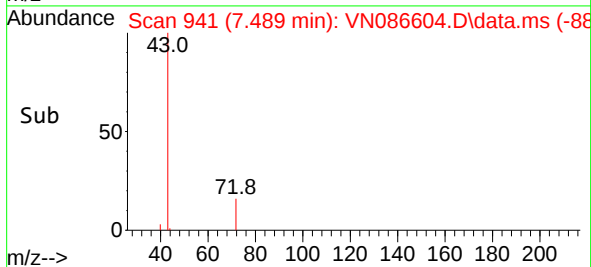
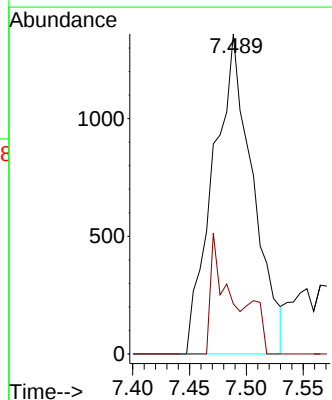
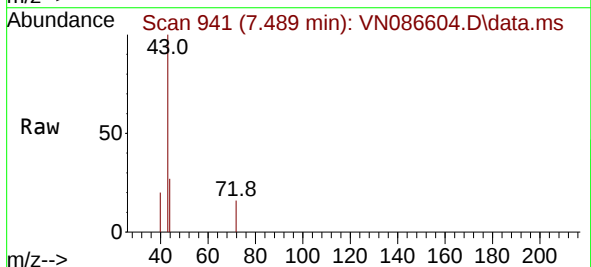


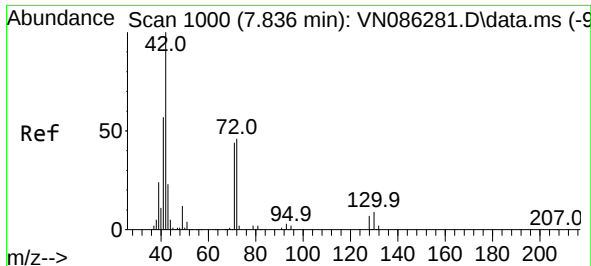
Tgt Ion:	84	Resp:	2748
Ion	Ratio	Lower	Upper
84	100		
49	106.9	98.2	147.2
51	17.7	29.8	44.6#
86	64.8	52.0	78.0



#25
2-Butanone
Concen: 2.182 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion:	43	Resp:	3291
Ion	Ratio	Lower	Upper
43	100		
72	15.7	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 7.847 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN086604.D

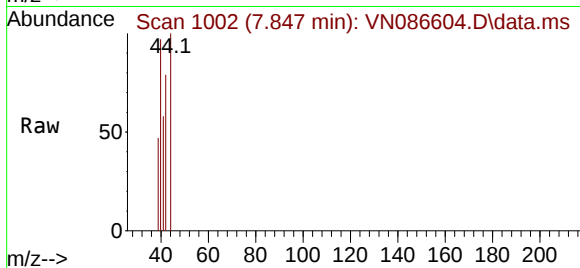
Acq: 13 May 2025 16:12

Instrument :

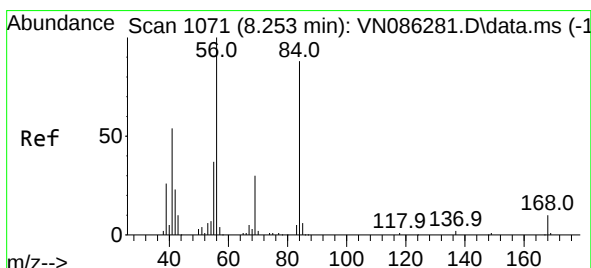
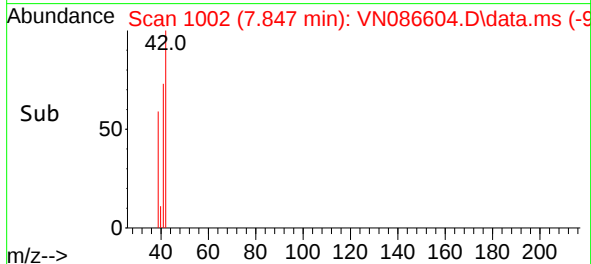
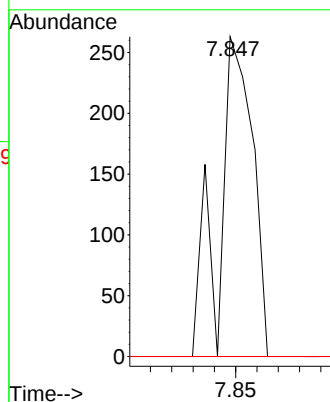
MSVOA_N

ClientSampleId :

PB167964ZHE#02



Tgt Ion:	42	Resp:	290
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.939 ug/l

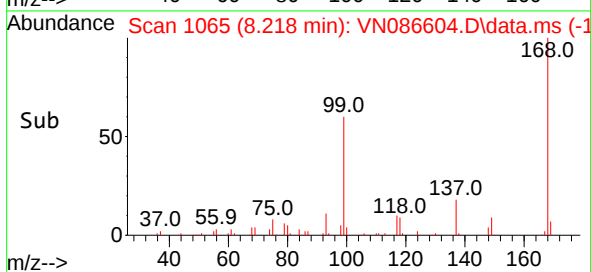
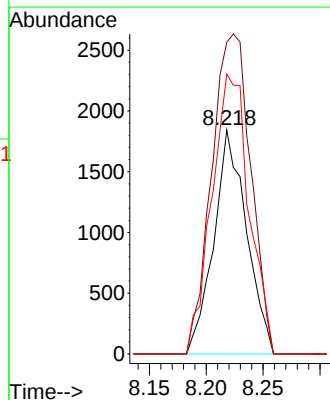
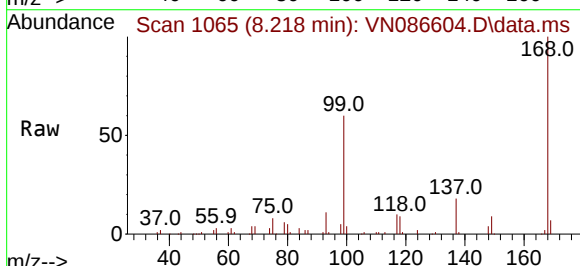
RT: 8.218 min Scan# 1065

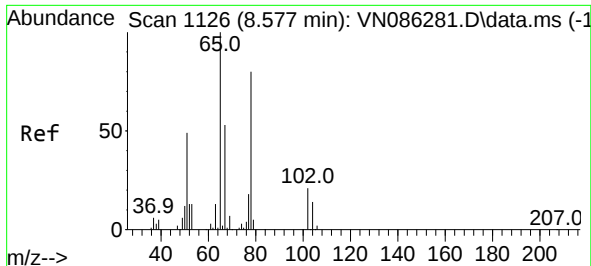
Delta R.T. -0.035 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

Tgt Ion:	56	Resp:	3688
Ion	Ratio	Lower	Upper
56	100		
69	139.1	24.2	36.2#
84	124.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.221 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

Instrument :

MSVOA_N

ClientSampleId :

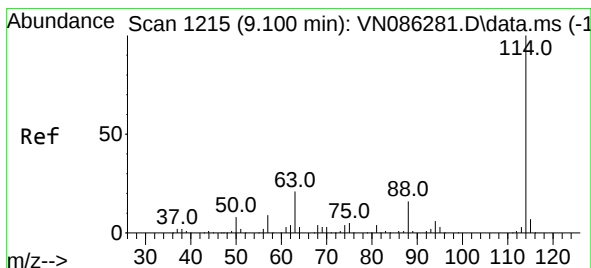
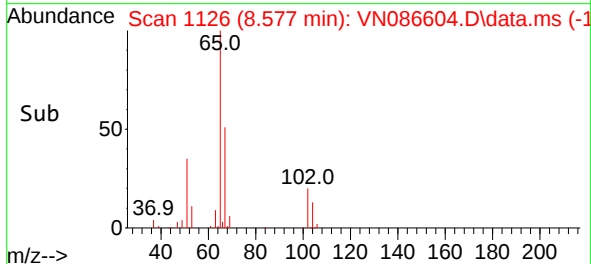
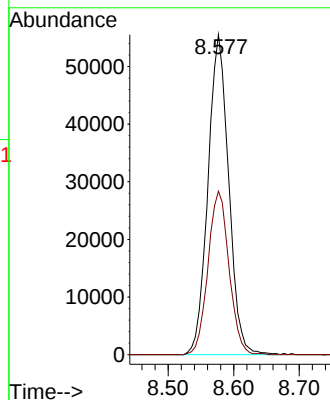
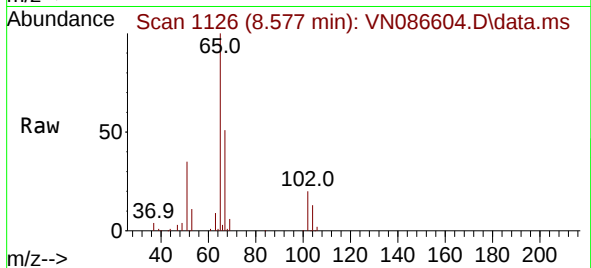
PB167964ZHE#02

Tgt Ion: 65 Resp: 121706

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

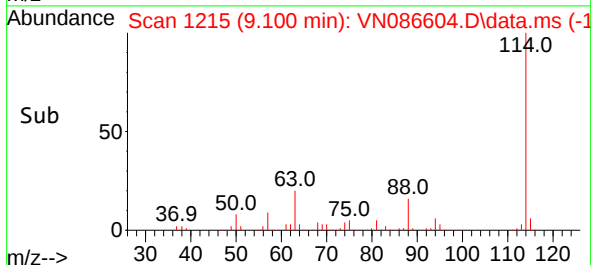
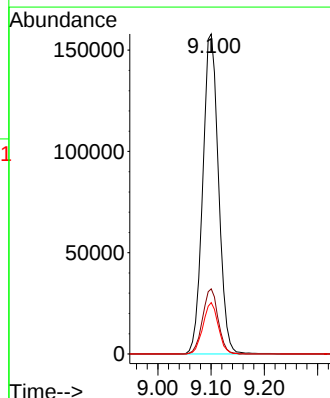
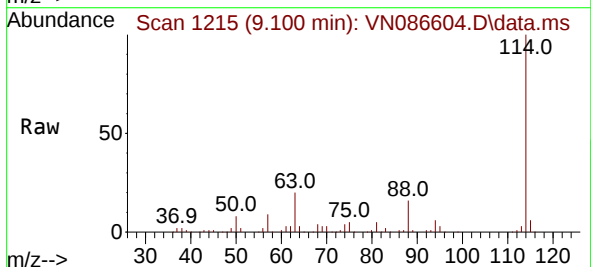
Tgt Ion: 114 Resp: 324215

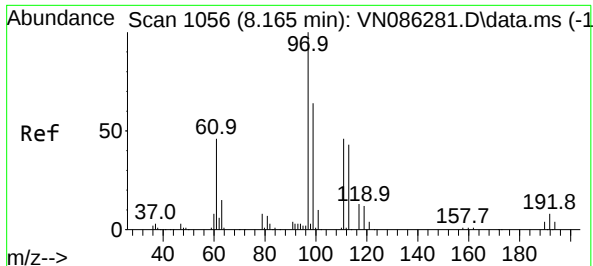
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 64.002 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#02

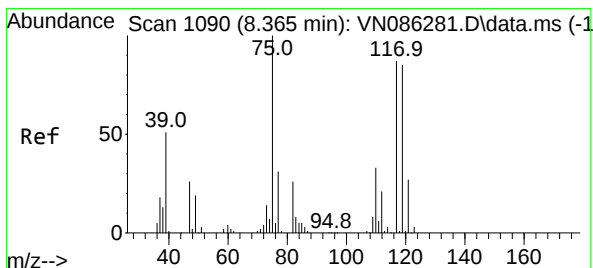
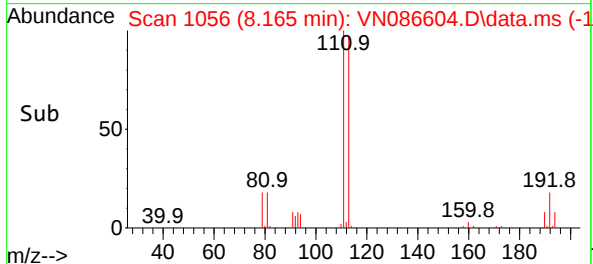
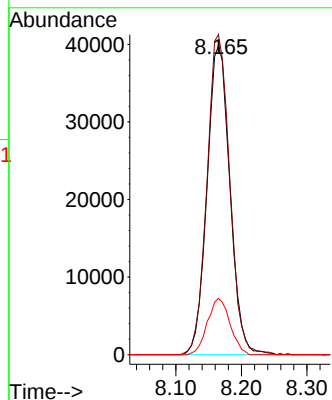
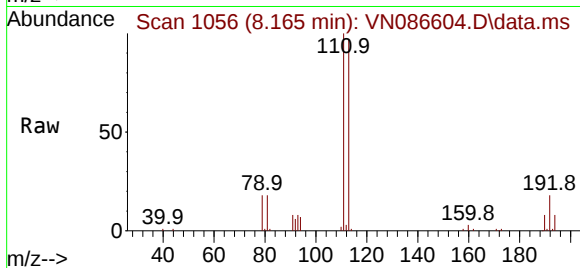
Tgt Ion:113 Resp: 96306

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.0

192 18.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.647 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

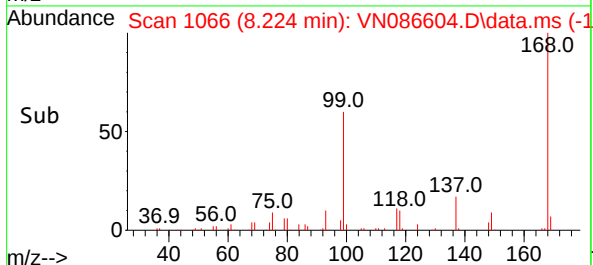
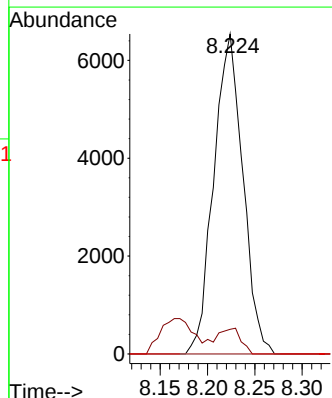
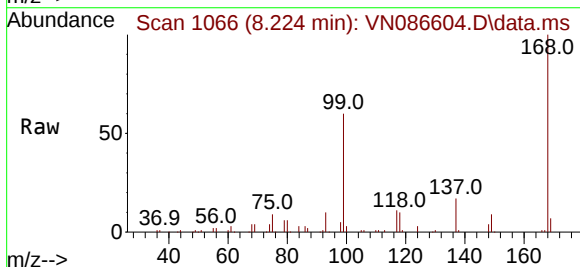
Tgt Ion: 75 Resp: 13967

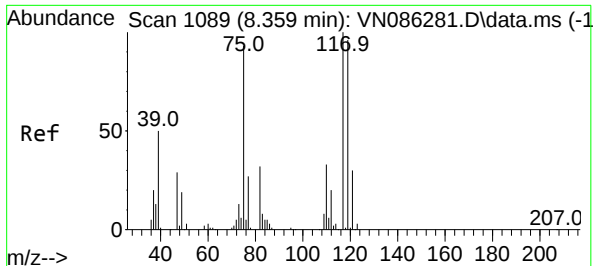
Ion Ratio Lower Upper

75 100

110 5.9 16.8 50.4#

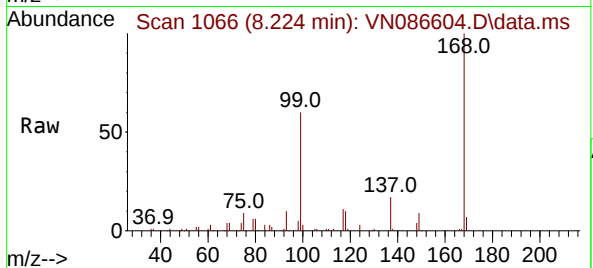
77 0.0 24.9 37.3#



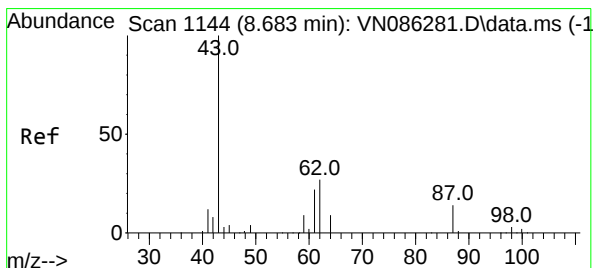
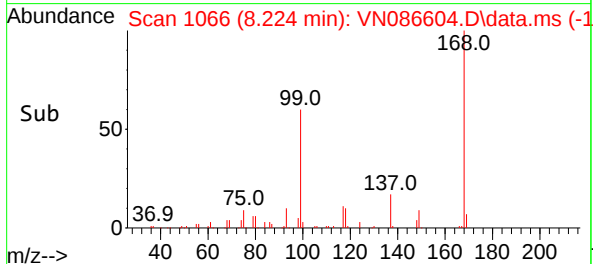
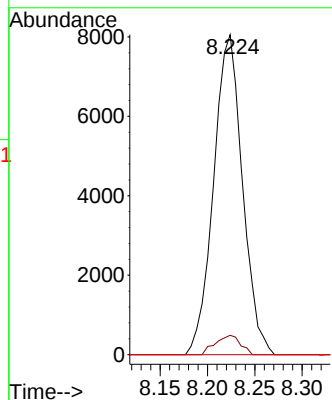


#38
Carbon Tetrachloride
Concen: 5.968 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

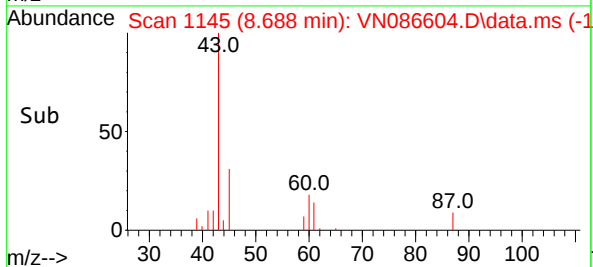
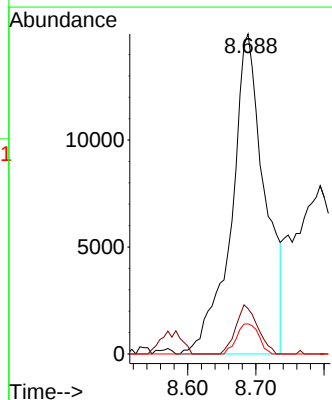
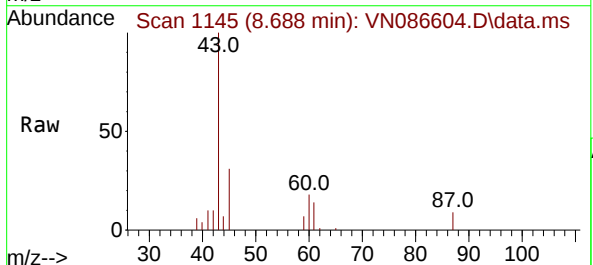


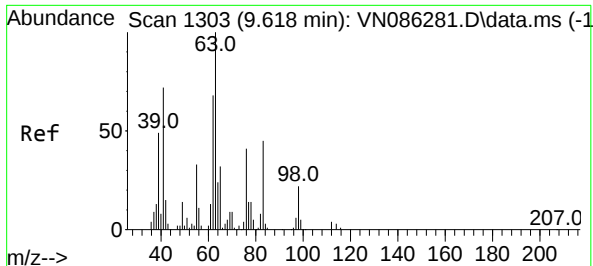
Tgt Ion:117 Resp: 17082
Ion Ratio Lower Upper
117 100
119 6.1 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.183 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion: 43 Resp: 50640
Ion Ratio Lower Upper
43 100
61 10.1 20.5 30.7#
87 6.2 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.452 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

Instrument :

MSVOA_N

ClientSampleId :

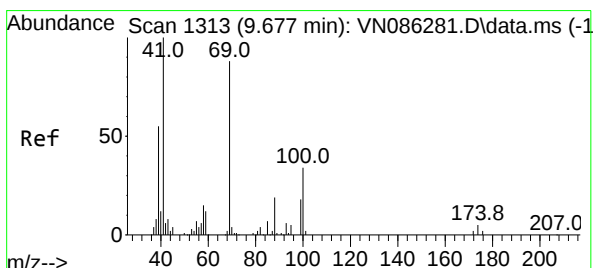
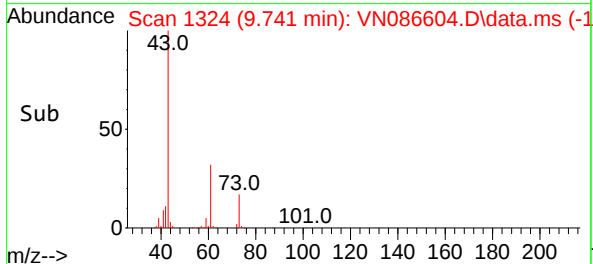
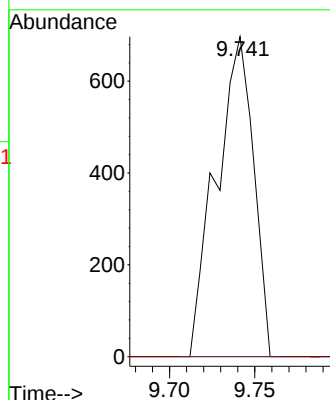
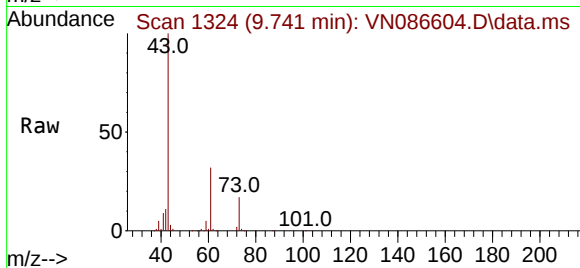
PB167964ZHE#02

Tgt Ion: 63 Resp: 1065

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 26.372 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086604.D

Acq: 13 May 2025 16:12

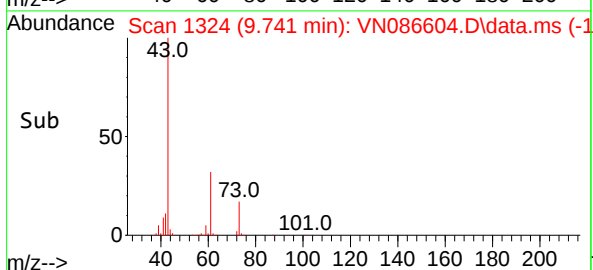
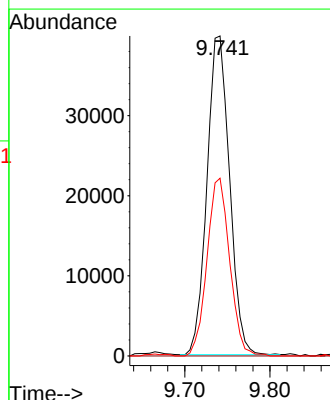
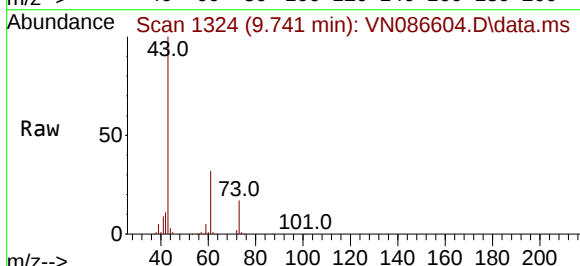
Tgt Ion: 41 Resp: 73277

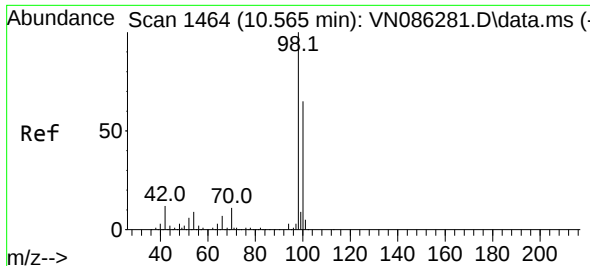
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 56.1 45.2 67.8

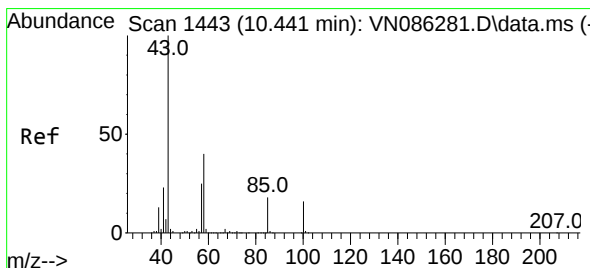
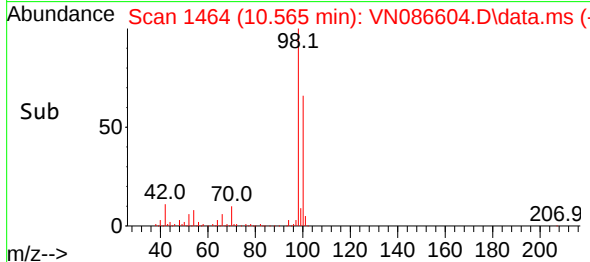
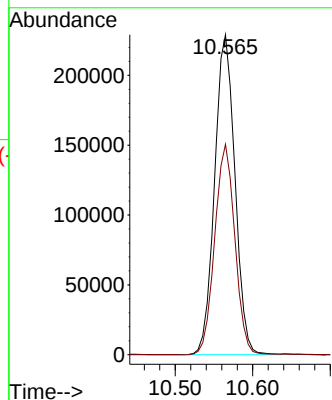
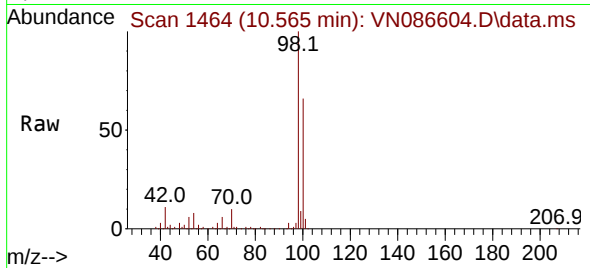




#50
Toluene-d8
Concen: 51.864 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

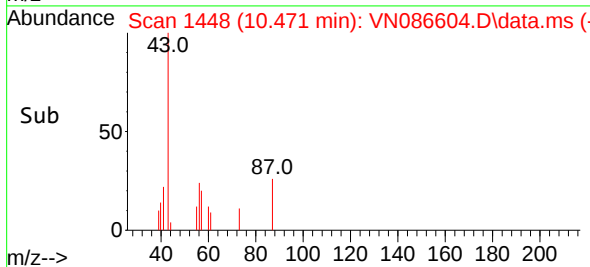
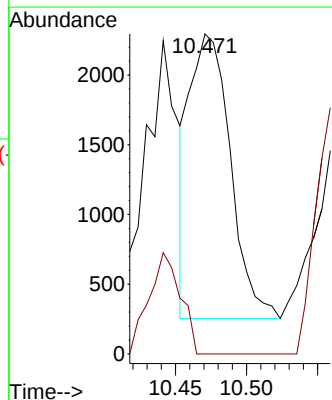
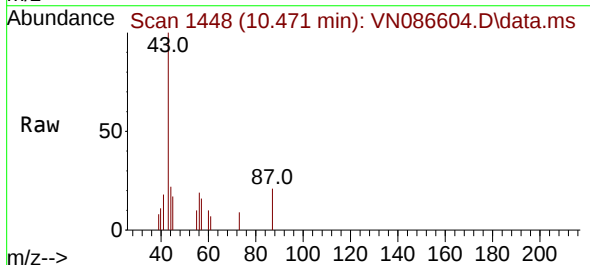
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

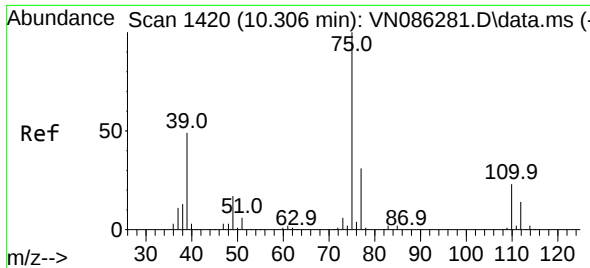
Tgt Ion: 98 Resp: 417086
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.267 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion: 43 Resp: 4105
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#

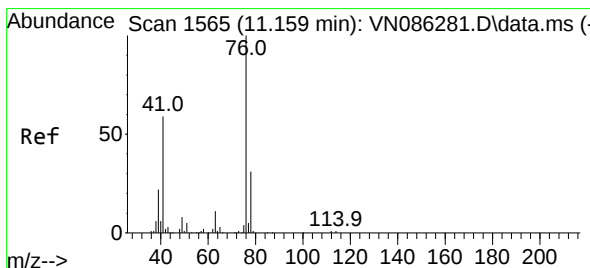
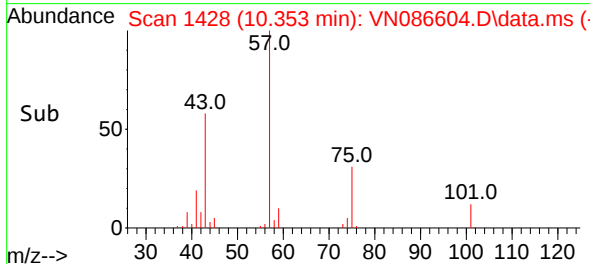
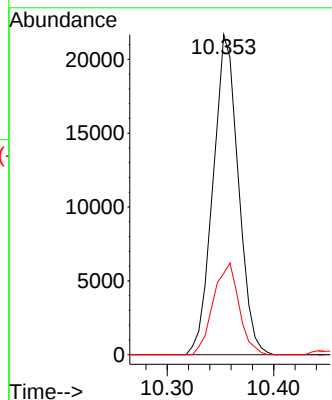
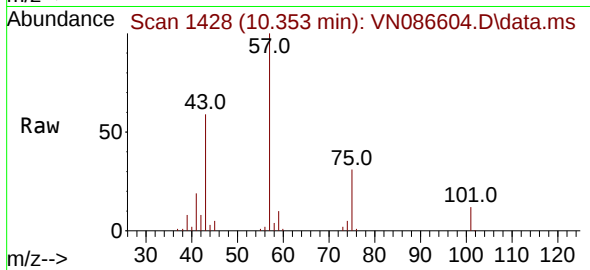




#54
cis-1,3-Dichloropropene
Concen: 9.002 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

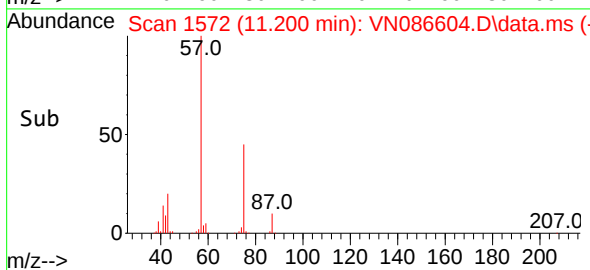
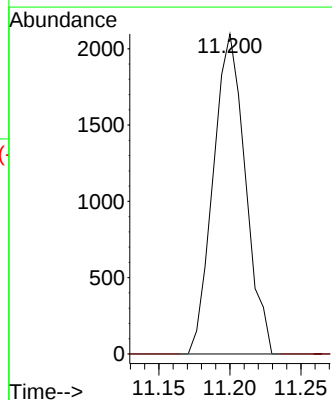
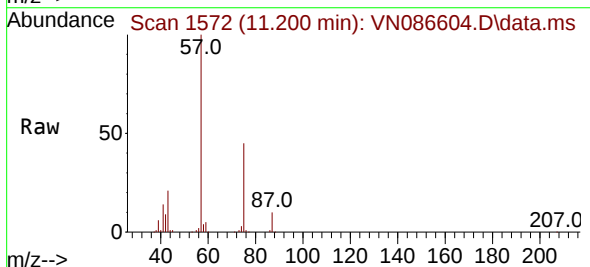
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

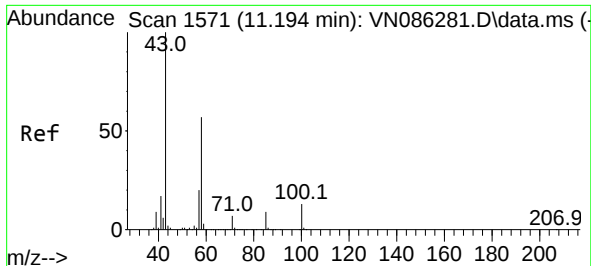
Tgt Ion: 75 Resp: 35800
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 25.4 39.3 58.9#



#57
1,3-Dichloropropane
Concen: 0.860 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion: 76 Resp: 3297
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

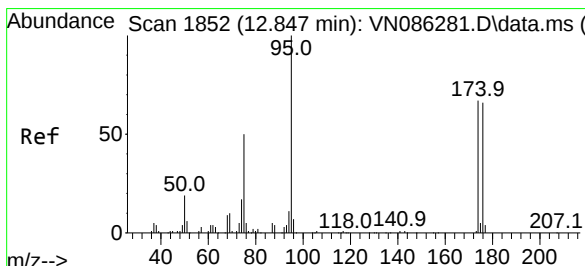
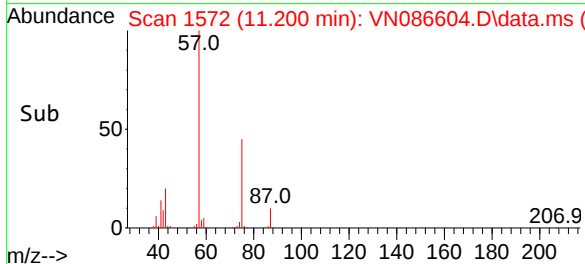
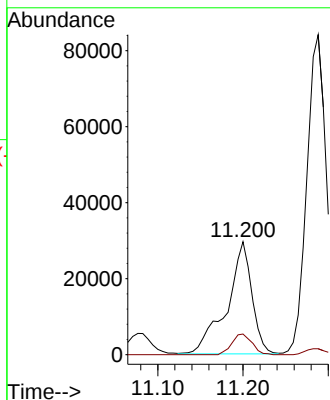
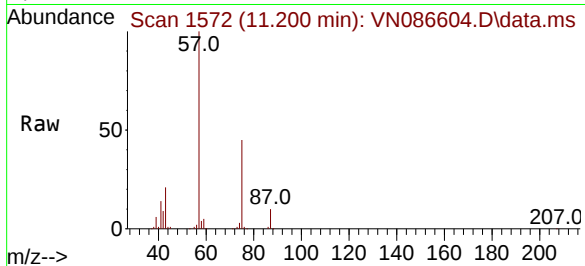




#59
2-Hexanone
Concen: 25.070 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

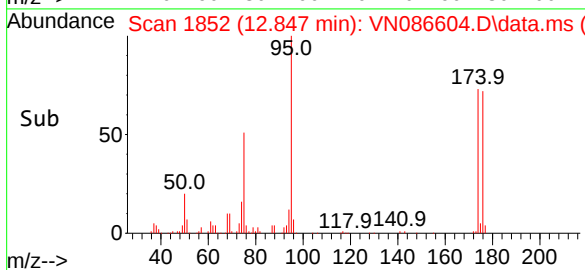
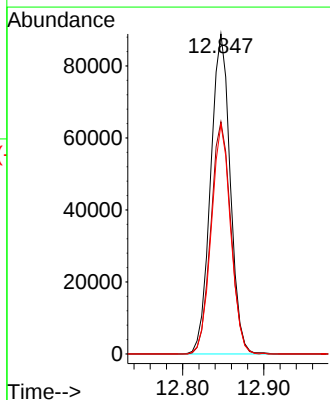
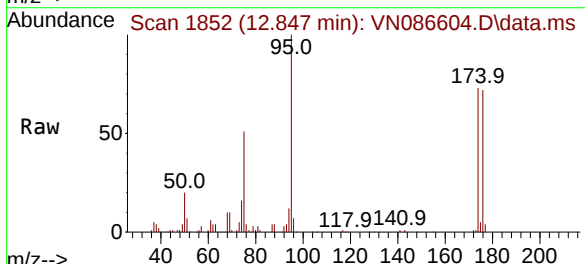
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

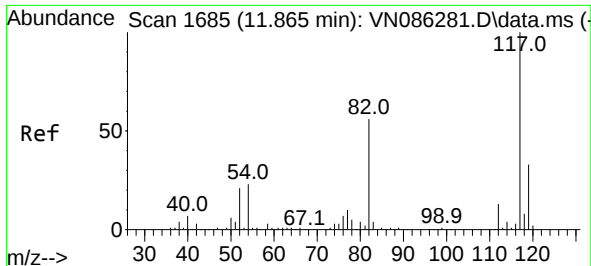
Tgt Ion: 43 Resp: 60251
Ion Ratio Lower Upper
43 100
58 14.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.902 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion: 95 Resp: 149308
Ion Ratio Lower Upper
95 100
174 73.8 0.0 133.4
176 70.9 0.0 129.2

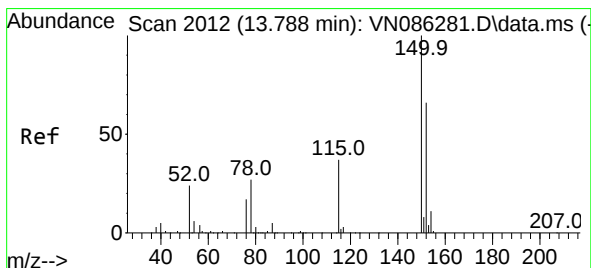
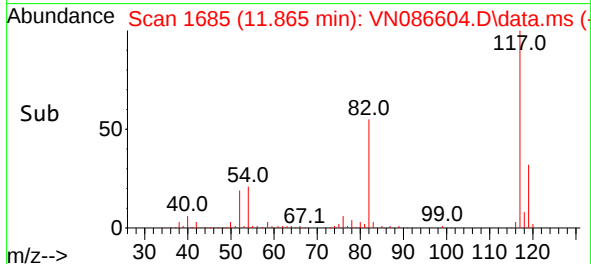
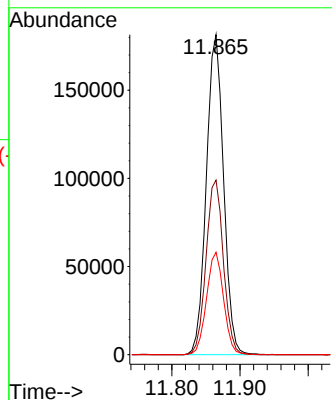
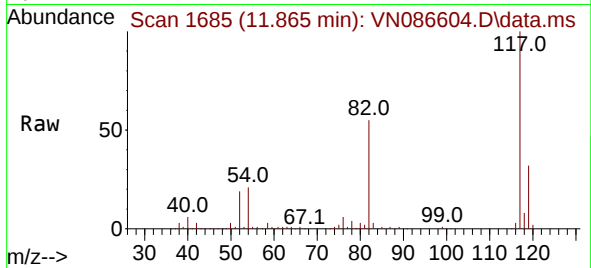




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

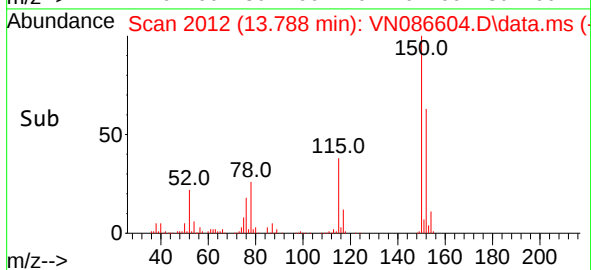
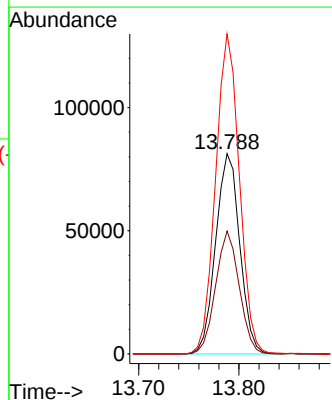
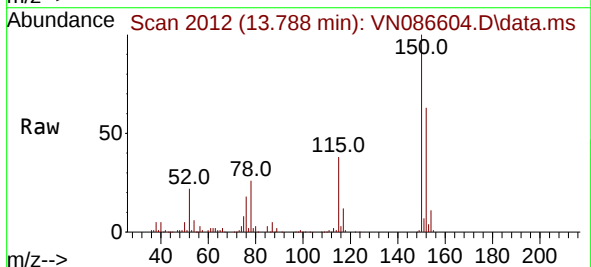
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

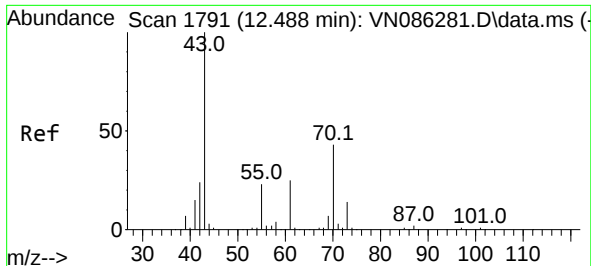
Tgt Ion:117 Resp: 319280
Ion Ratio Lower Upper
117 100
82 54.6 44.7 67.1
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

Tgt Ion:152 Resp: 135672
Ion Ratio Lower Upper
152 100
115 60.1 31.9 95.9
150 157.8 0.0 352.0

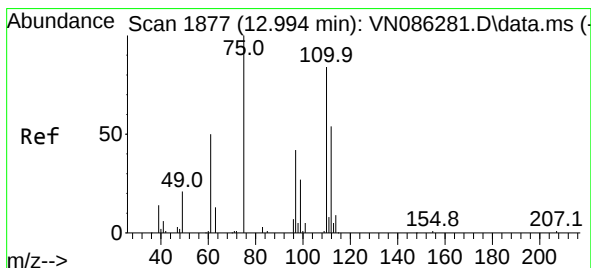
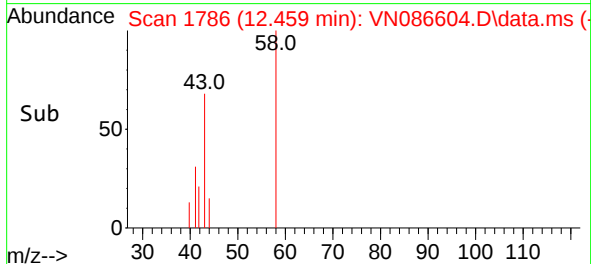
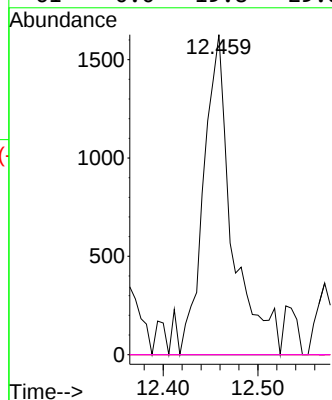
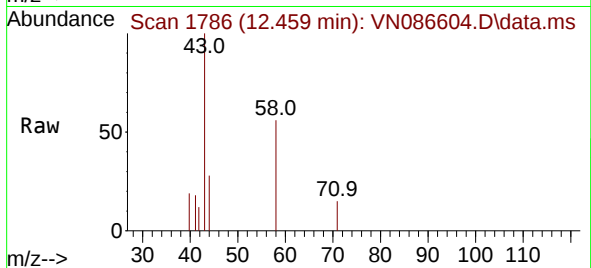




#74
N-amy1 acetate
Concen: 0.614 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

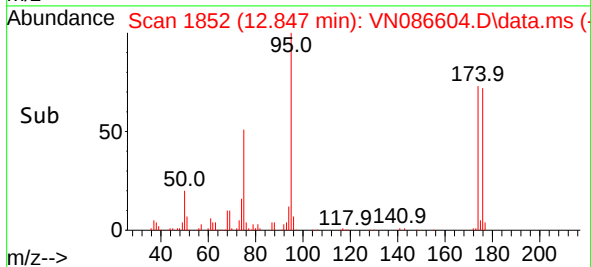
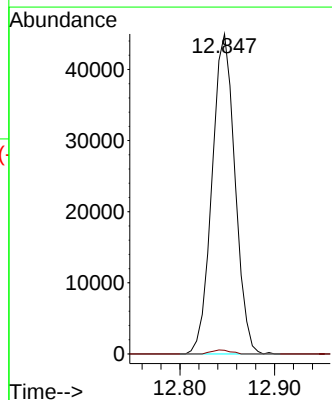
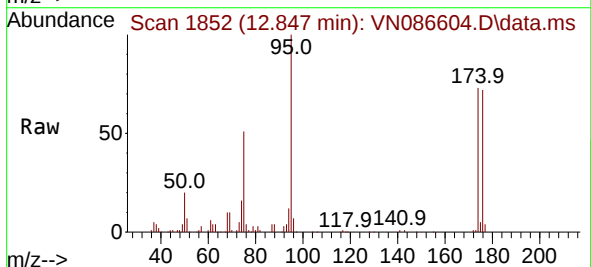
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#02

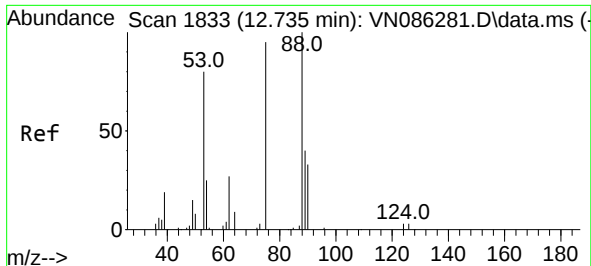
Tgt Ion: 43	Resp:	3392
Ion Ratio	Lower	Upper
43 100		
70 0.0	35.0	52.4#
55 0.0	19.0	28.4#
61 0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.694 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086604.D
Acq: 13 May 2025 16:12

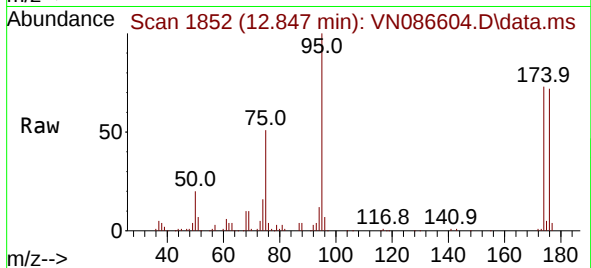
Tgt Ion: 75	Resp:	75860	
Ion Ratio	Lower	Upper	
75 100			
77 1.0	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.904 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086604.D
 Acq: 13 May 2025 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#02



Tgt Ion: 75 Resp: 75860
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

