

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051225\
 Data File : VN086586.D
 Acq On : 12 May 2025 17:17
 Operator : JC\MD
 Sample : PB167932ZHE#11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#11

Quant Time: May 13 01:55:50 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

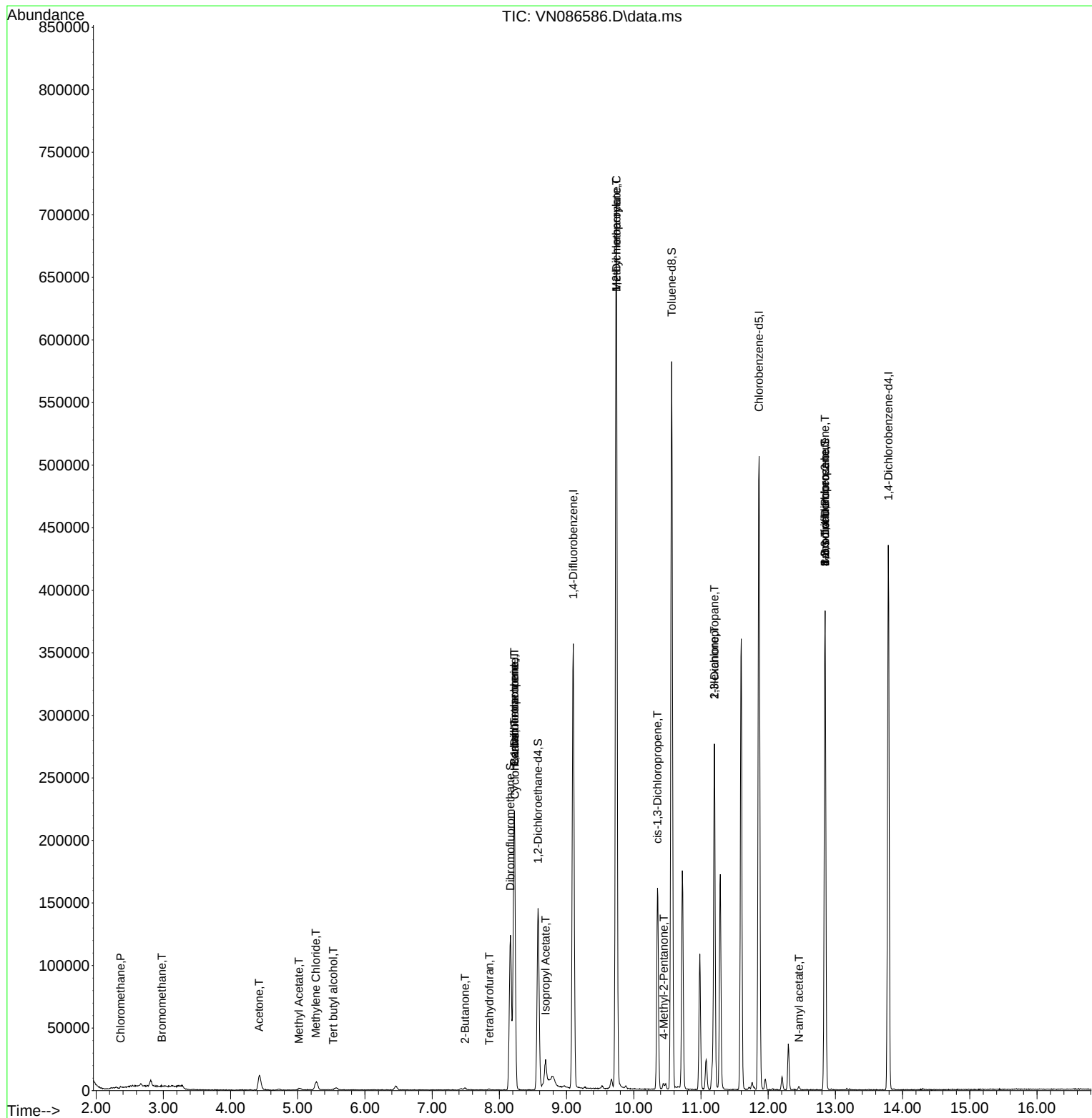
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	165622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	313891	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	304252	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118685	49.418	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.840%
35) Dibromofluoromethane	8.165	113	90993	62.460	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	124.920%#
50) Toluene-d8	10.565	98	406416	52.199	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.400%
62) 4-Bromofluorobenzene	12.847	95	140072	49.324	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	842	0.295	ug/l	93
5) Bromomethane	2.977	94	309	0.252	ug/l #	3
11) Tert butyl alcohol	5.530	59	263	0.600	ug/l #	72
16) Acetone	4.424	43	23352	22.940	ug/l	98
18) Methyl Acetate	5.018	43	3030	1.051	ug/l #	63
20) Methylene Chloride	5.271	84	5955	2.682	ug/l #	86
25) 2-Butanone	7.488	43	3261	2.181	ug/l	92
29) Tetrahydrofuran	7.853	42	592	0.592	ug/l #	58
31) Cyclohexane	8.230	56	3700	0.951	ug/l #	24
36) 1,1-Dichloropropene	8.224	75	13625	4.683	ug/l #	50
38) Carbon Tetrachloride	8.224	117	17113	6.176	ug/l #	14
43) Isopropyl Acetate	8.688	43	31362	3.911	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	874	0.383	ug/l #	43
48) Methyl methacrylate	9.741	41	63326	23.540	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	3187	1.016	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	30833	8.008	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	2682	0.722	ug/l #	43
59) 2-Hexanone	11.200	43	50811	21.838	ug/l #	42
71) Bromoform	12.847	173	627	0.372	ug/l #	1
74) N-amyl acetate	12.459	43	2908	0.590	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69865	24.474	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69865	58.776	ug/l #	10

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

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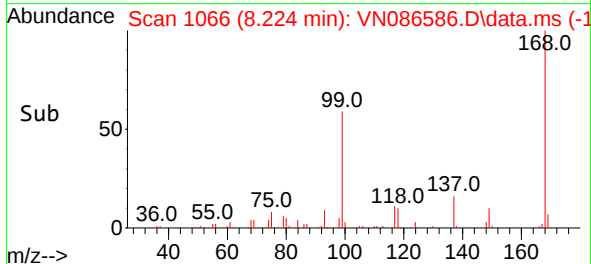
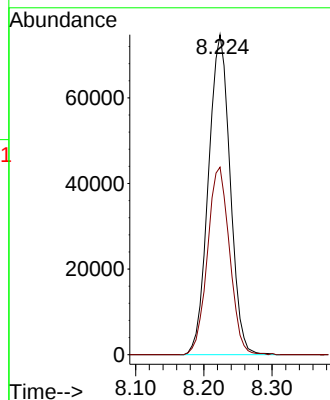
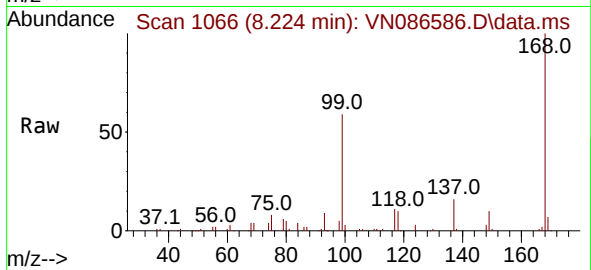




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

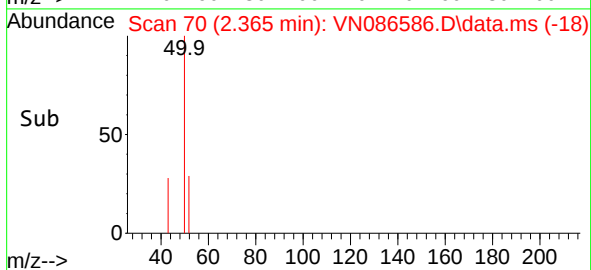
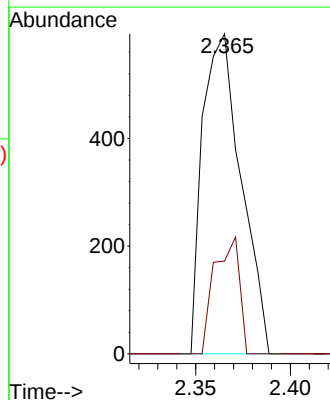
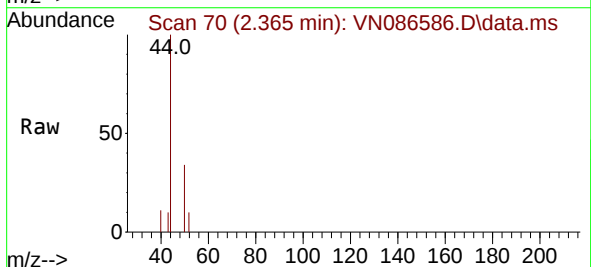
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

Tgt Ion:168 Resp: 165622
Ion Ratio Lower Upper
168 100
99 58.6 52.5 78.7



#3
Chloromethane
Concen: 0.295 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 50 Resp: 842
Ion Ratio Lower Upper
50 100
52 29.0 26.5 39.7

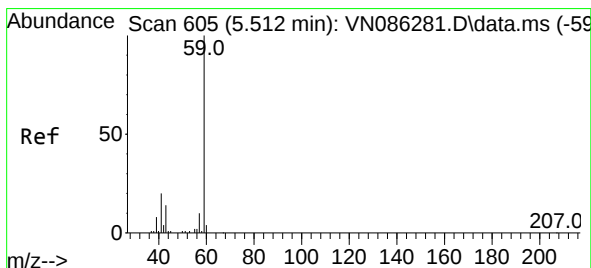
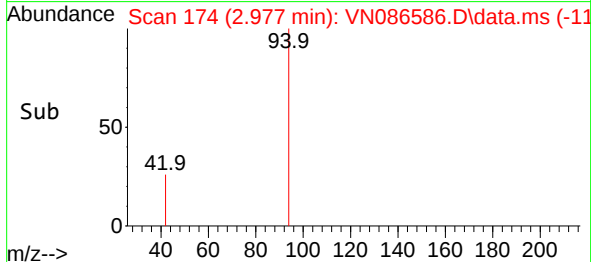
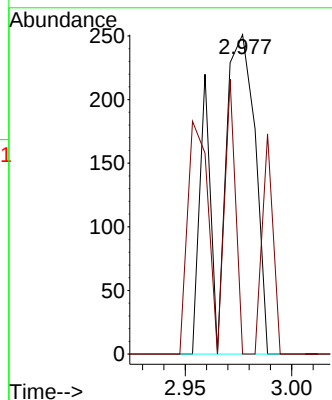
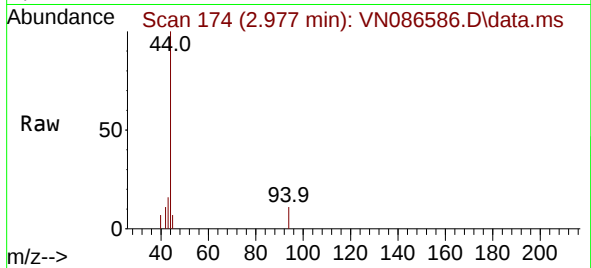




#5
Bromomethane
Concen: 0.252 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

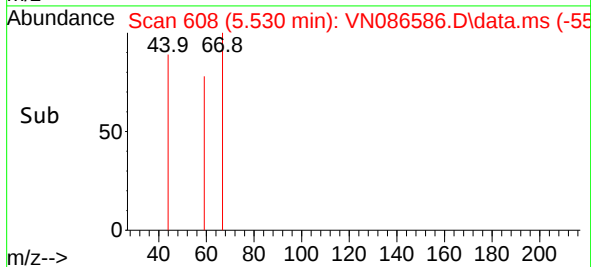
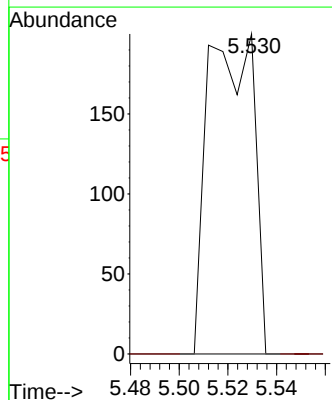
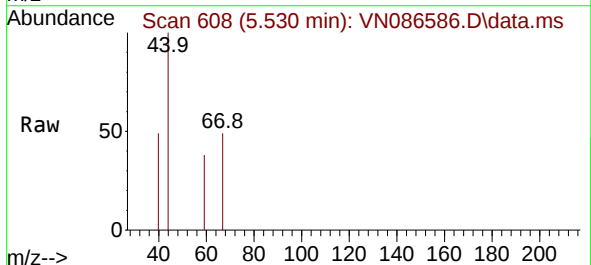
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

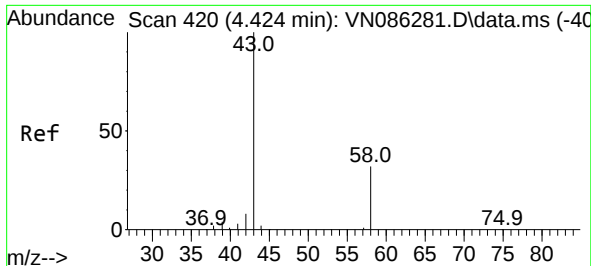
Tgt Ion: 94 Resp: 309
Ion Ratio Lower Upper
94 100
96 0.0 75.2 112.8#



#11
Tert butyl alcohol
Concen: 0.600 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.018 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 59 Resp: 263
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

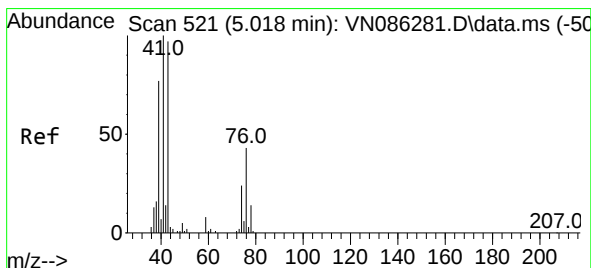
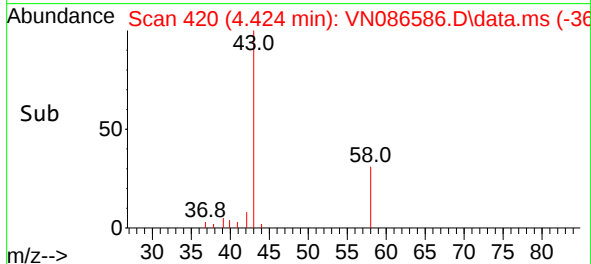
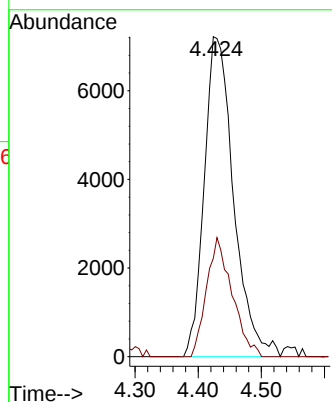
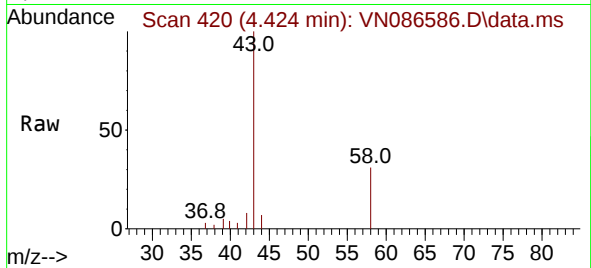




#16
Acetone
Concen: 22.940 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

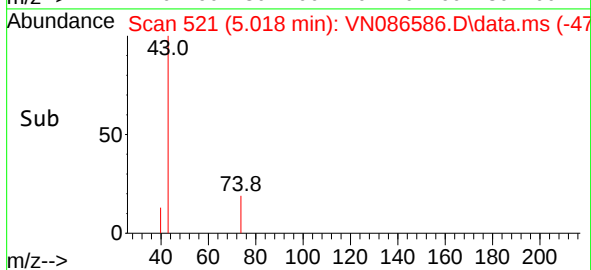
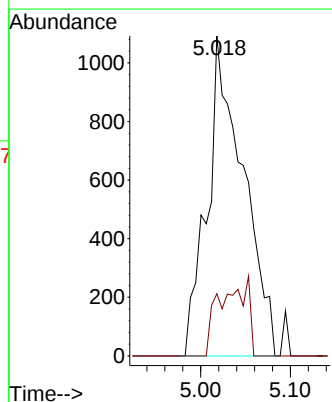
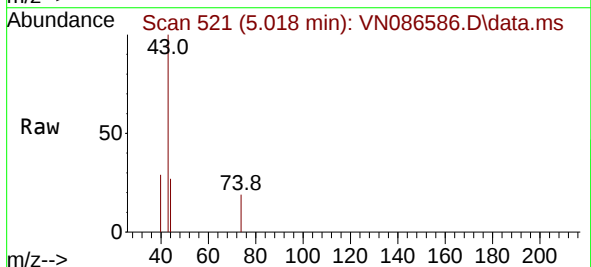
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

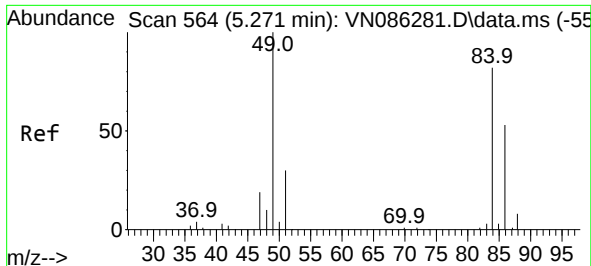
Tgt Ion: 43 Resp: 23352
Ion Ratio Lower Upper
43 100
58 30.7 25.3 37.9



#18
Methyl Acetate
Concen: 1.051 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

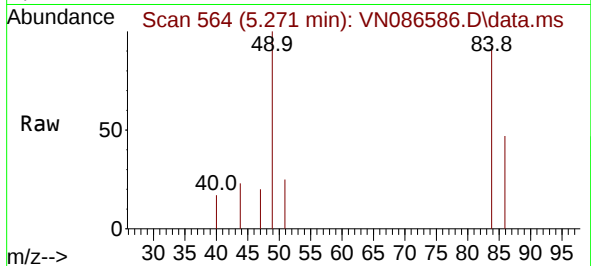
Tgt Ion: 43 Resp: 3030
Ion Ratio Lower Upper
43 100
74 6.4 19.8 29.6#



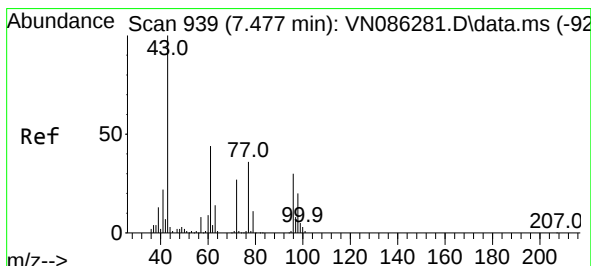
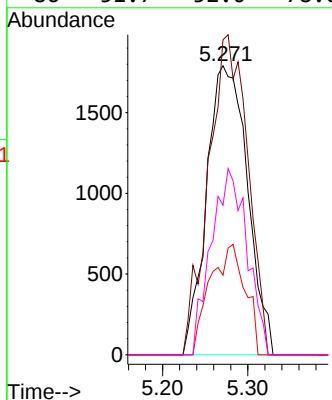
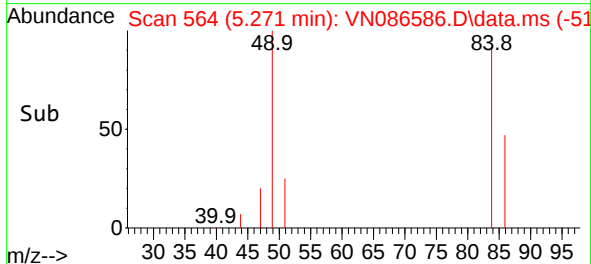


#20
Methylene Chloride
Concen: 2.682 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

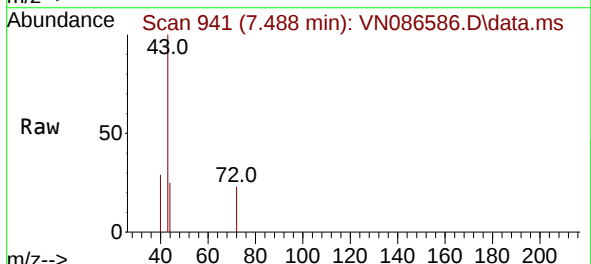
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11



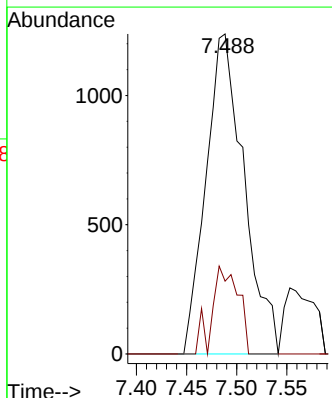
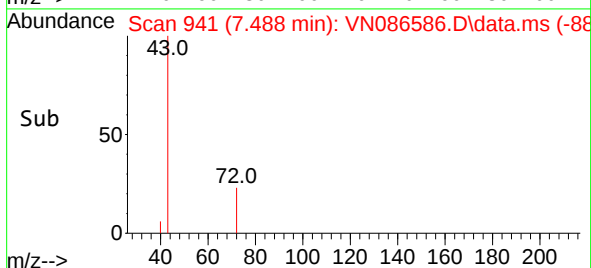
Tgt Ion: 84	Resp: 5955
Ion Ratio	Lower Upper
84	100
49	108.9 98.2 147.2
51	27.5 29.8 44.6#
86	51.7 52.0 78.0#

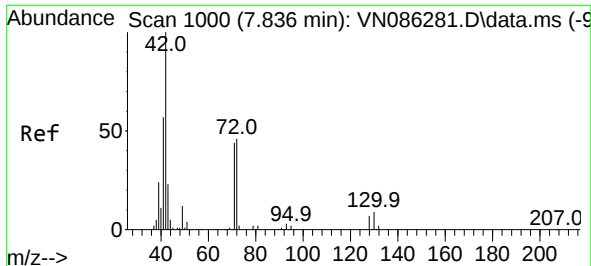


#25
2-Butanone
Concen: 2.181 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17



Tgt Ion: 43	Resp: 3261
Ion Ratio	Lower Upper
43	100
72	22.8 21.7 32.5





#29

Tetrahydrofuran

Concen: 0.592 ug/l

RT: 7.853 min Scan# 1067

Delta R.T. 0.018 min

Lab File: VN086586.D

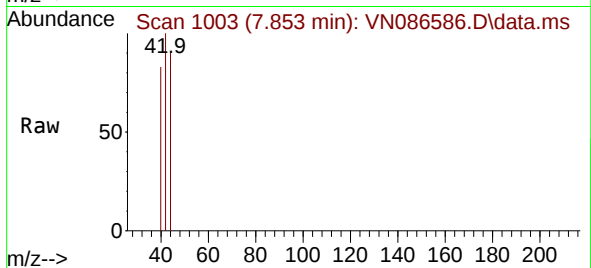
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Instrument :

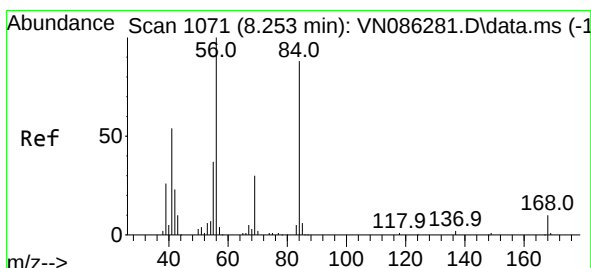
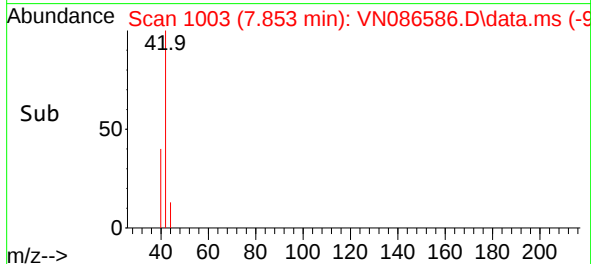
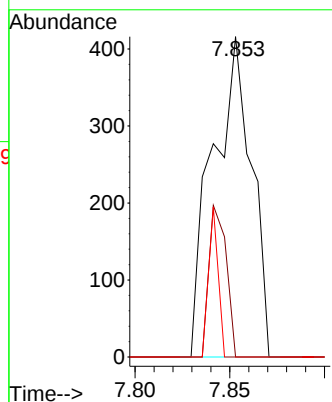
MSVOA_N

ClientSampleId :

PB167932ZHE#11



Tgt Ion:	42	Resp:	592
Ion	Ratio	Lower	Upper
42	100		
72	21.1	36.2	54.4#
71	11.7	34.0	51.0#



#31

Cyclohexane

Concen: 0.951 ug/l

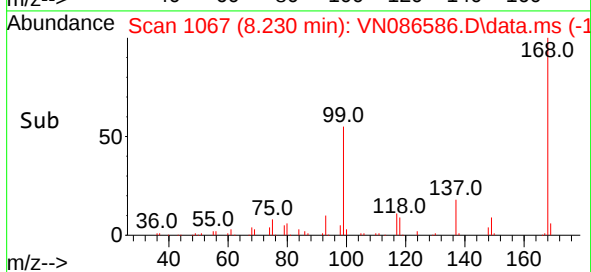
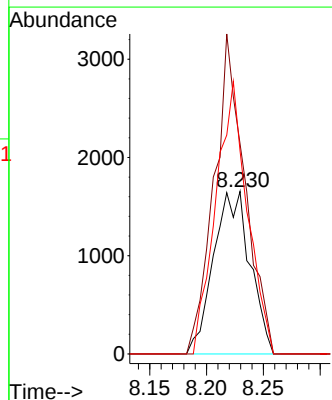
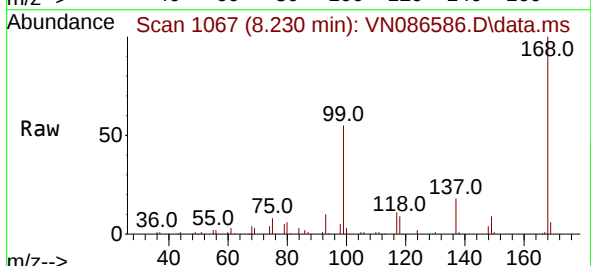
RT: 8.230 min Scan# 1067

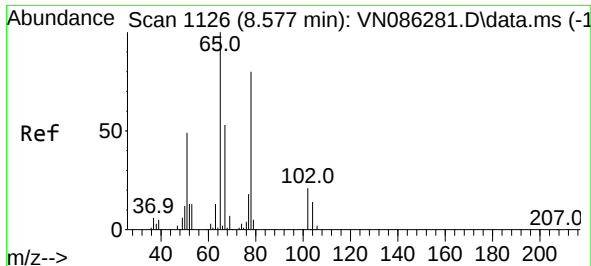
Delta R.T. -0.024 min

Lab File: VN086586.D

Acq: 12 May 2025 17:17

Tgt Ion:	56	Resp:	3700
Ion	Ratio	Lower	Upper
56	100		
69	129.3	24.2	36.2#
84	125.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.418 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086586.D

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Instrument :

MSVOA_N

ClientSampleId :

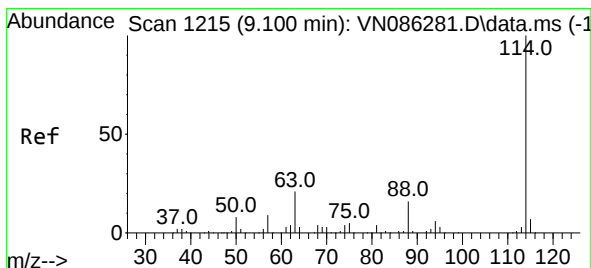
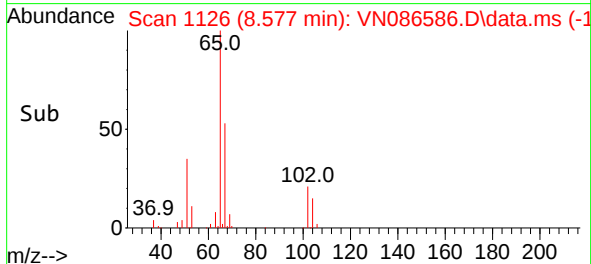
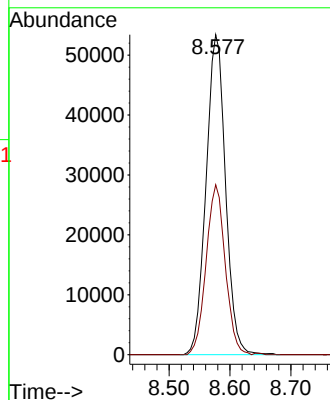
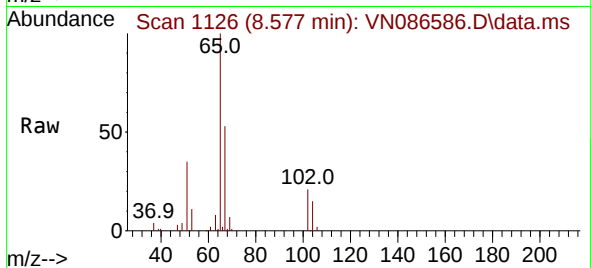
PB167932ZHE#11

Tgt Ion: 65 Resp: 118685

Ion Ratio Lower Upper

65 100

67 52.1 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: VN086586.D

Acq: 12 May 2025 17:17

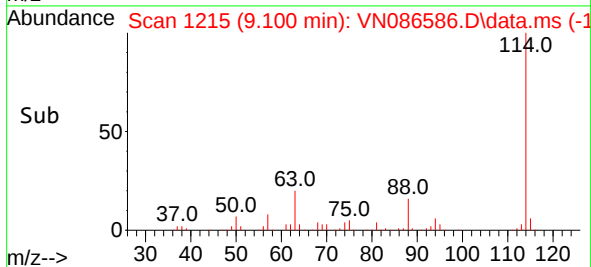
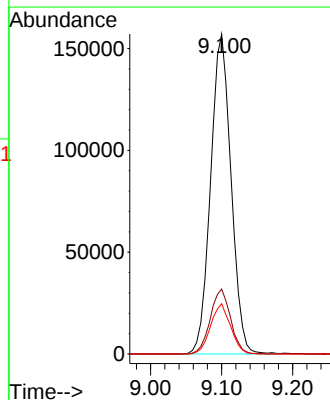
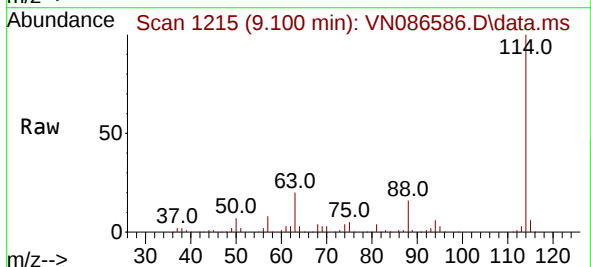
Tgt Ion: 114 Resp: 313891

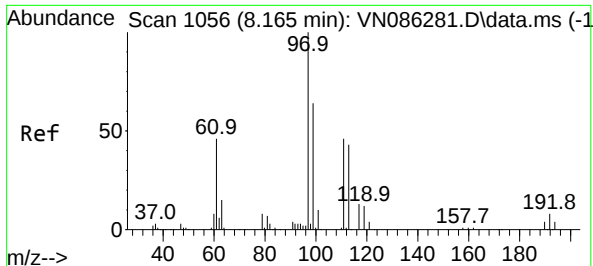
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 62.460 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086586.D

Acq: 12 May 2025 17:17

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#11

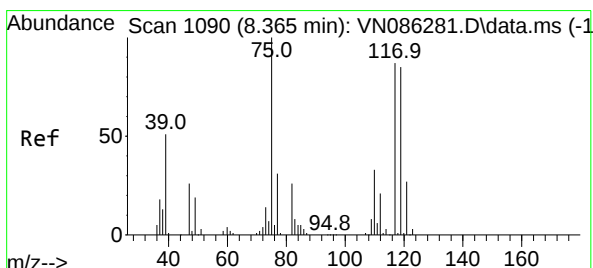
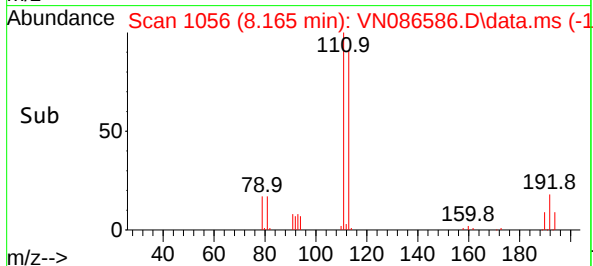
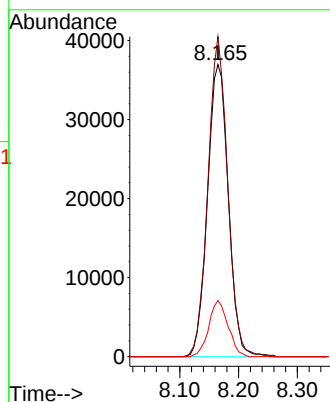
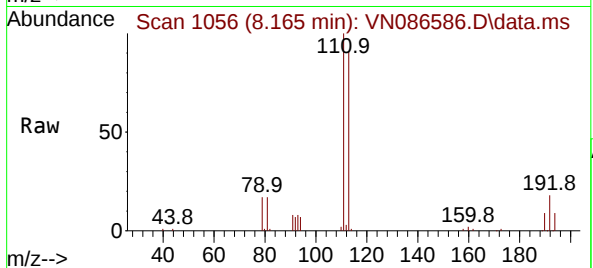
Tgt Ion:113 Resp: 90993

Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.0

192 17.8 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.683 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086586.D

Acq: 12 May 2025 17:17

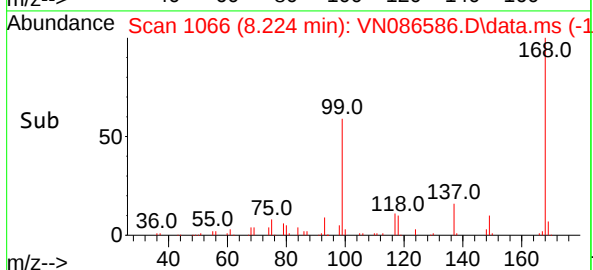
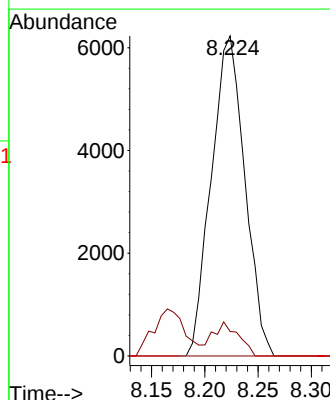
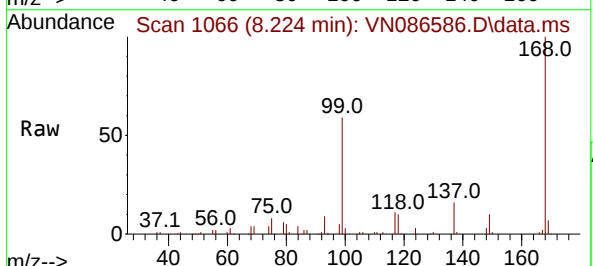
Tgt Ion: 75 Resp: 13625

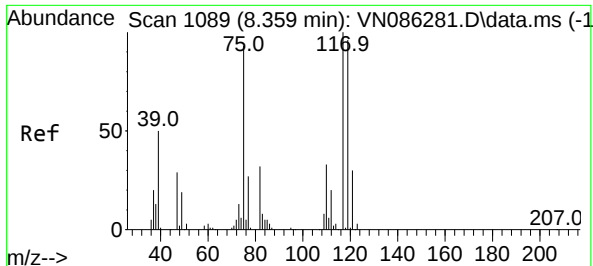
Ion Ratio Lower Upper

75 100

110 8.3 16.8 50.4#

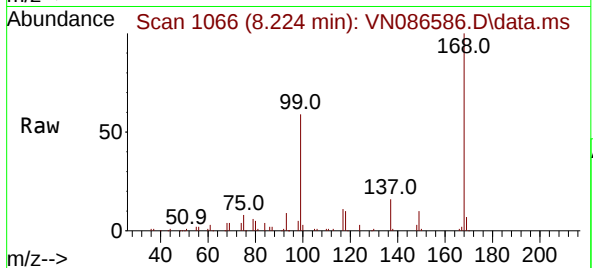
77 0.0 24.9 37.3#



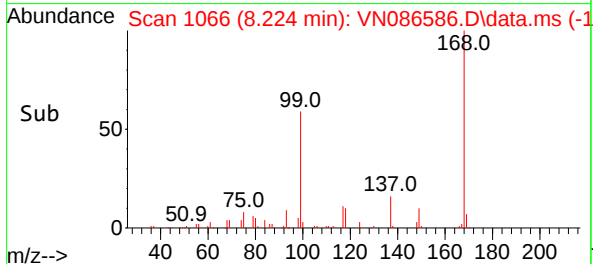
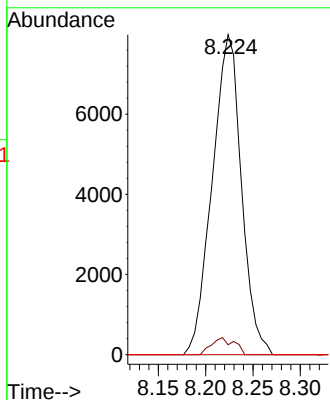


#38
Carbon Tetrachloride
Concen: 6.176 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

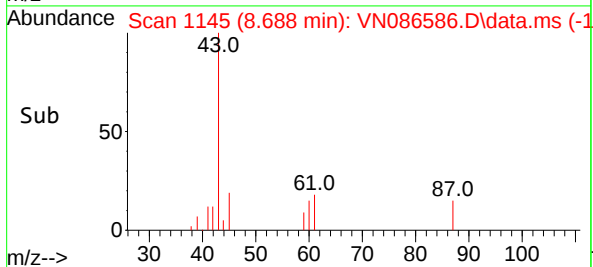
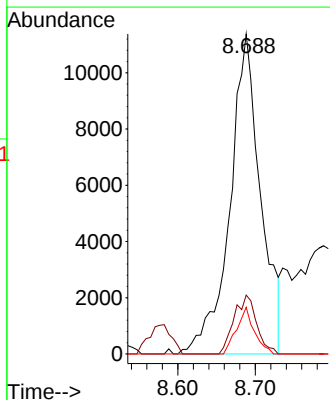
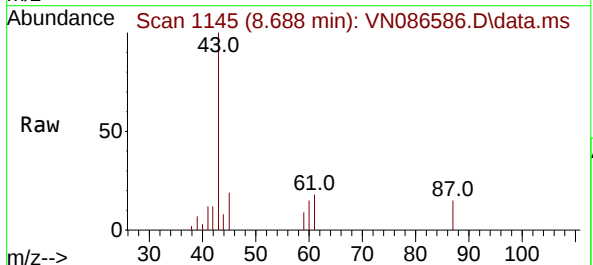


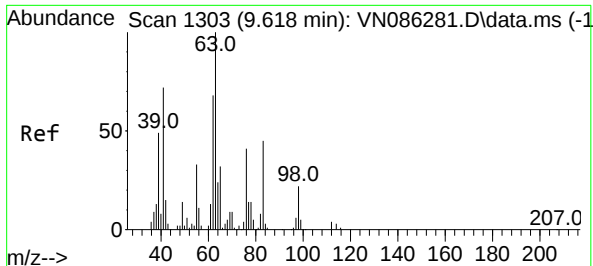
Tgt Ion:117 Resp: 17113
Ion Ratio Lower Upper
117 100
119 3.1 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.911 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 43 Resp: 31362
Ion Ratio Lower Upper
43 100
61 13.5 20.5 30.7#
87 8.4 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.383 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086586.D

Acq: 12 May 2025 17:17

Instrument :

MSVOA_N

ClientSampleId :

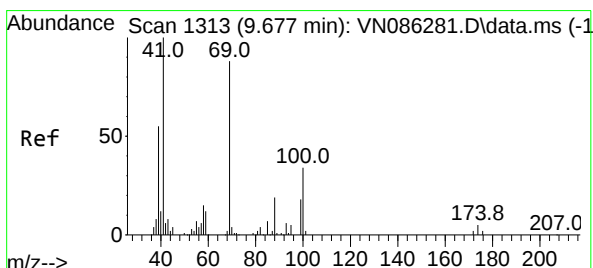
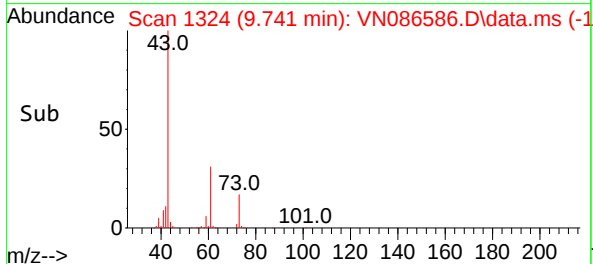
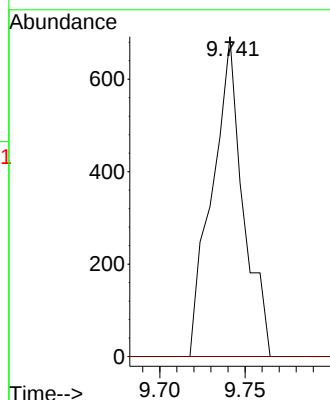
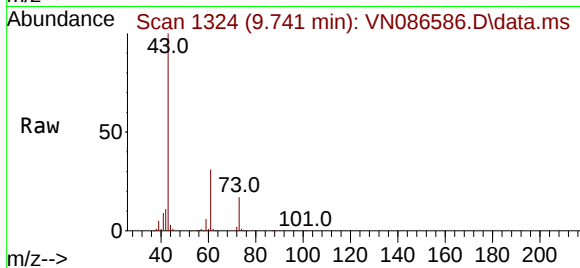
PB167932ZHE#11

Tgt Ion: 63 Resp: 874

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 23.540 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086586.D

Acq: 12 May 2025 17:17

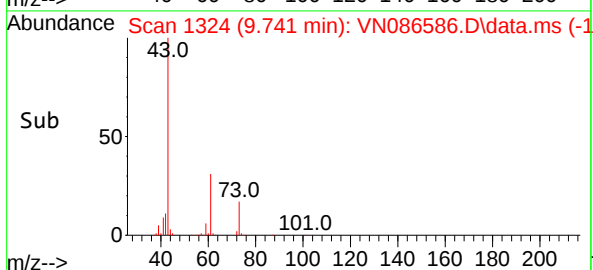
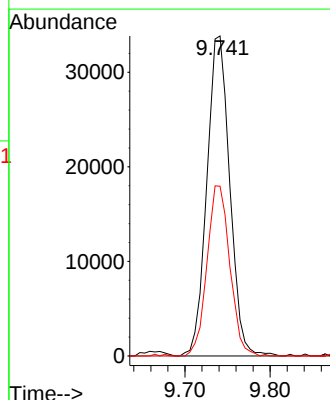
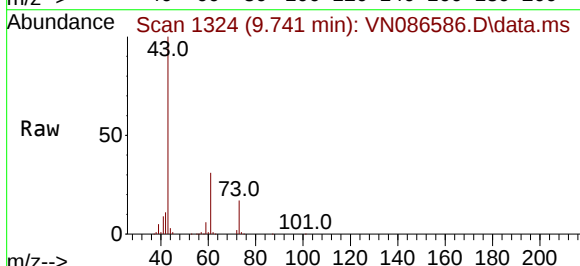
Tgt Ion: 41 Resp: 63326

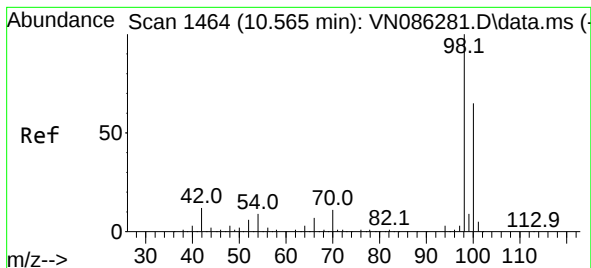
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.0 45.2 67.8

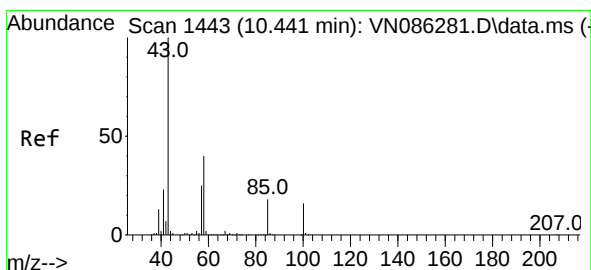
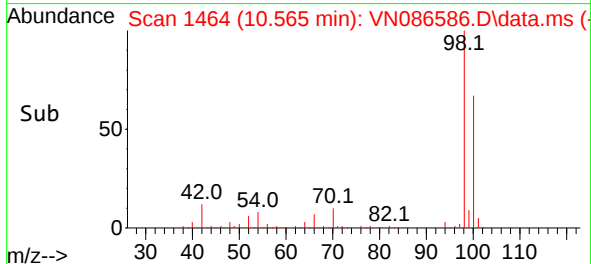
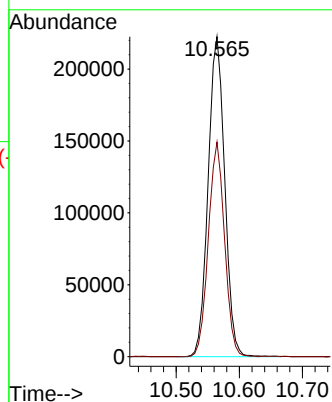
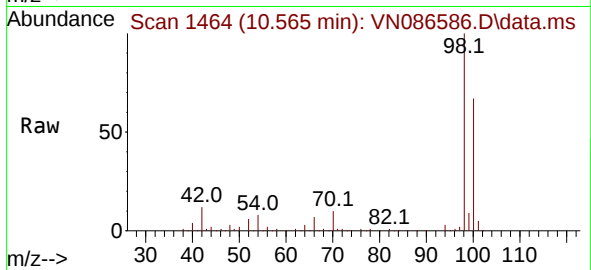




#50
Toluene-d8
Concen: 52.199 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

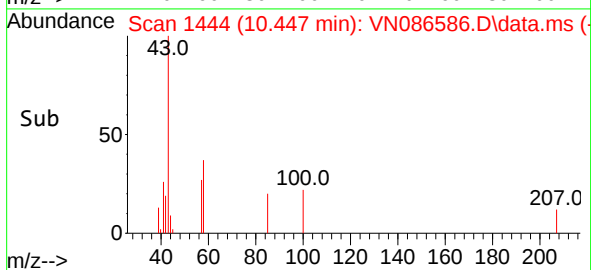
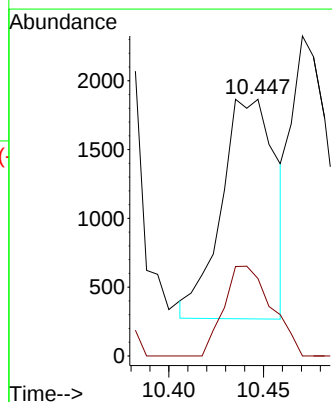
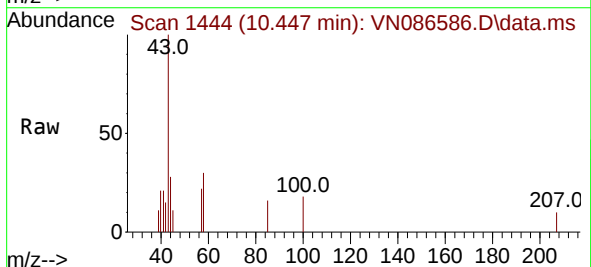
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

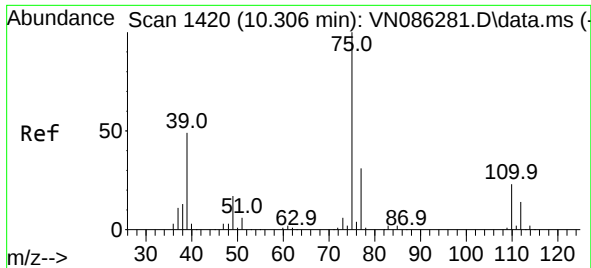
Tgt Ion: 98 Resp: 406416
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.016 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 43 Resp: 3187
Ion Ratio Lower Upper
43 100
58 35.7 32.2 48.4

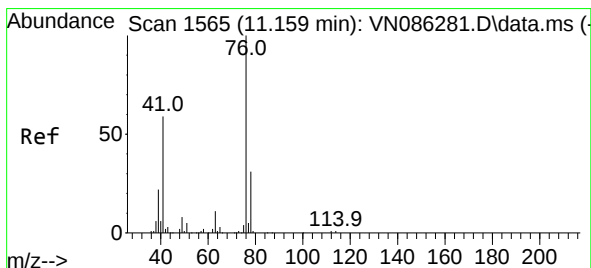
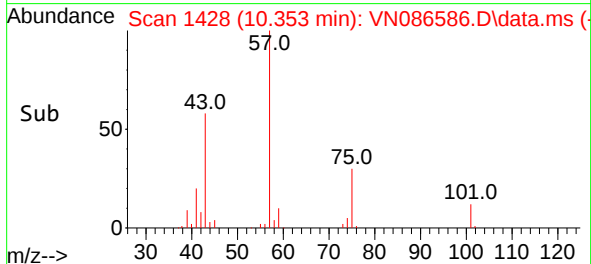
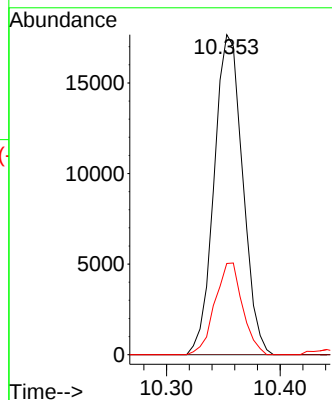
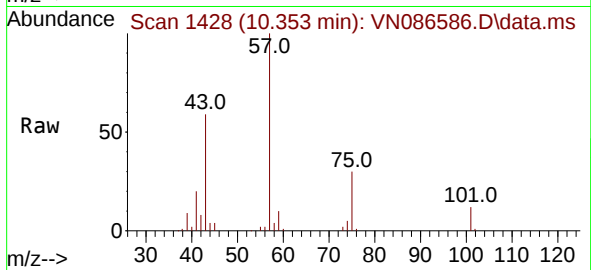




#54
 cis-1,3-Dichloropropene
 Concen: 8.008 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086586.D
 Acq: 12 May 2025 17:17

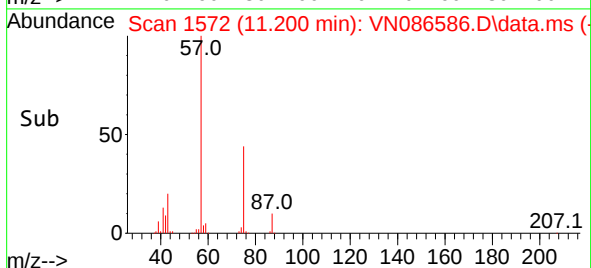
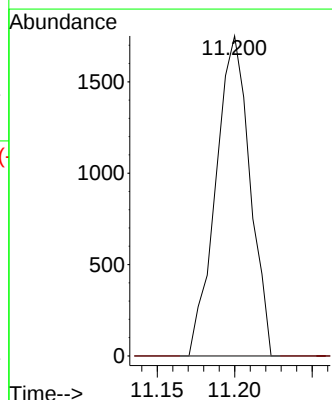
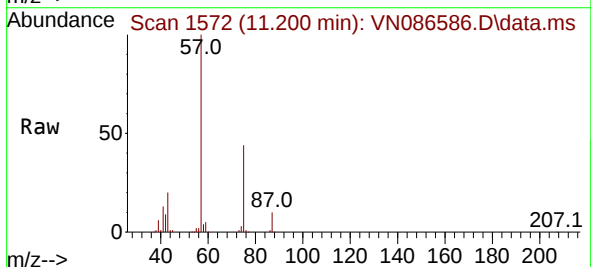
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#11

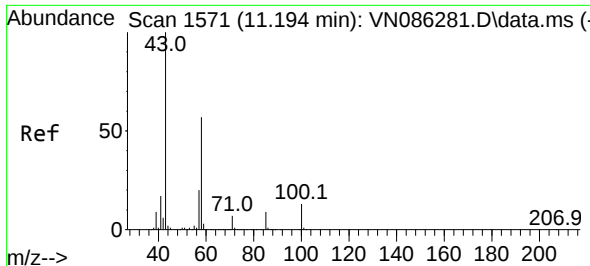
Tgt Ion: 75 Resp: 30833
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 28.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.722 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086586.D
 Acq: 12 May 2025 17:17

Tgt Ion: 76 Resp: 2682
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

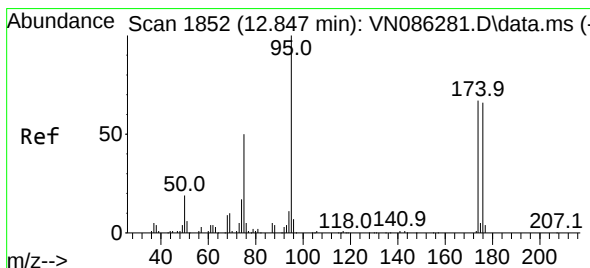
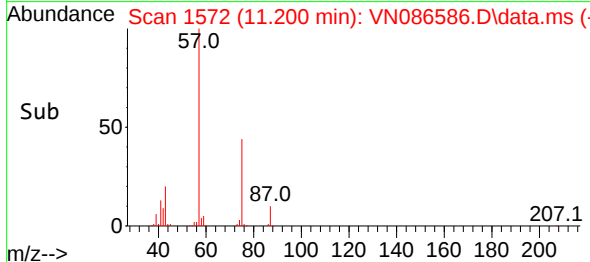
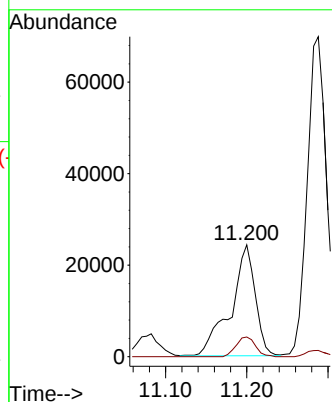
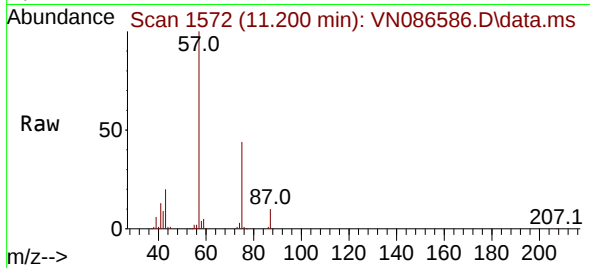




#59
2-Hexanone
Concen: 21.838 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

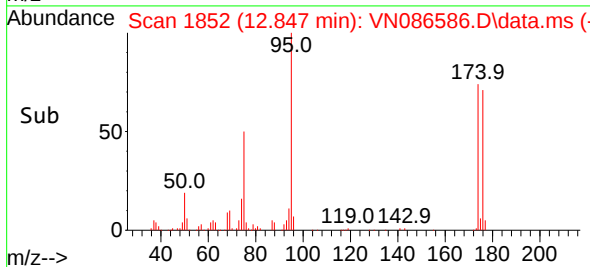
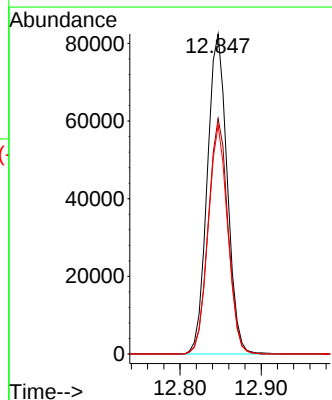
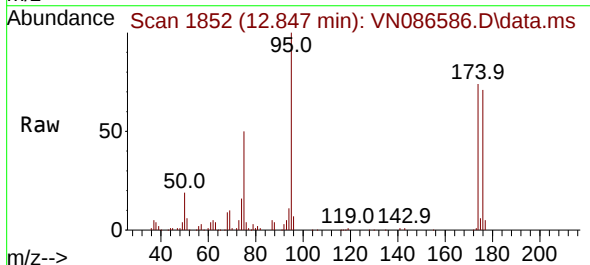
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

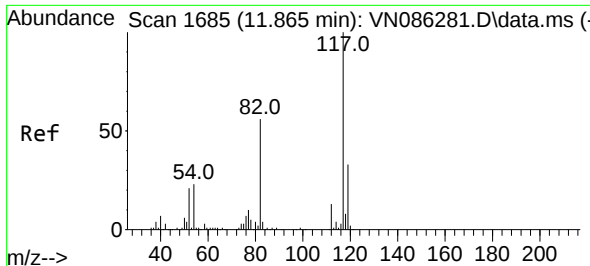
Tgt Ion: 43 Resp: 50811
Ion Ratio Lower Upper
43 100
58 14.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.324 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 95 Resp: 140072
Ion Ratio Lower Upper
95 100
174 72.8 0.0 133.4
176 70.1 0.0 129.2

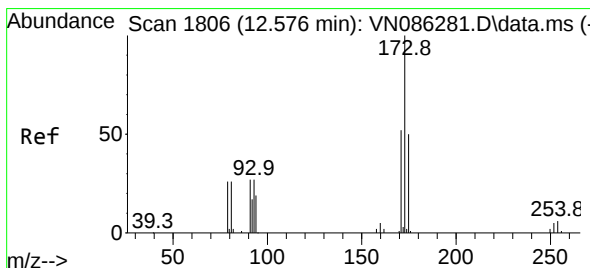
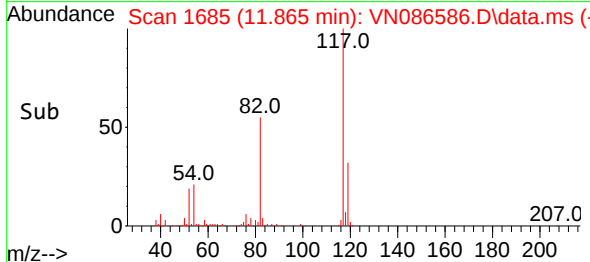
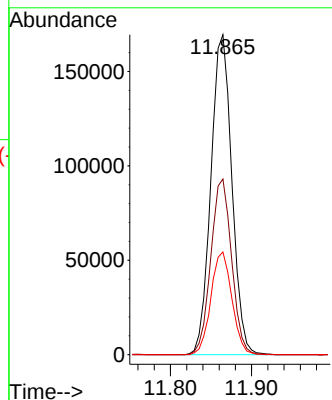
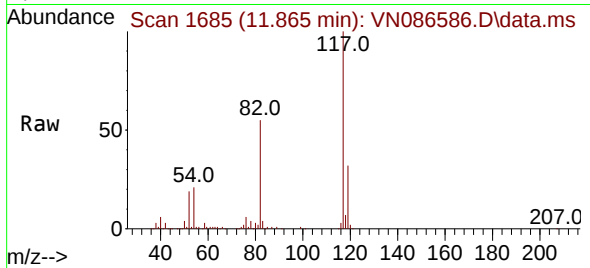




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

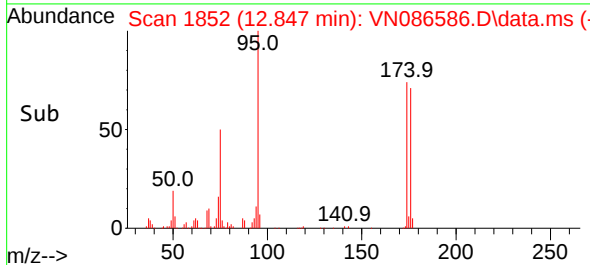
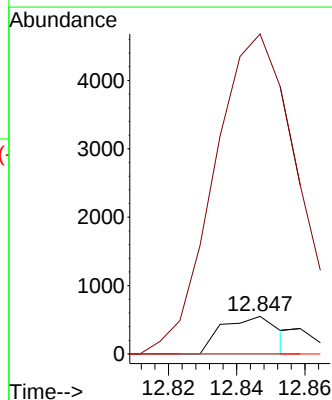
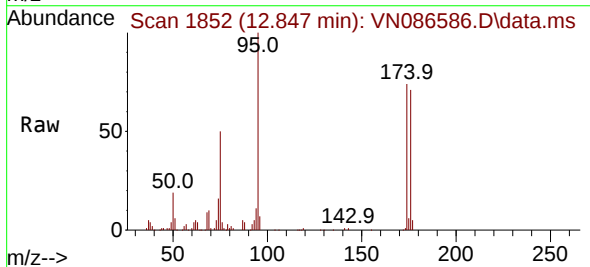
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

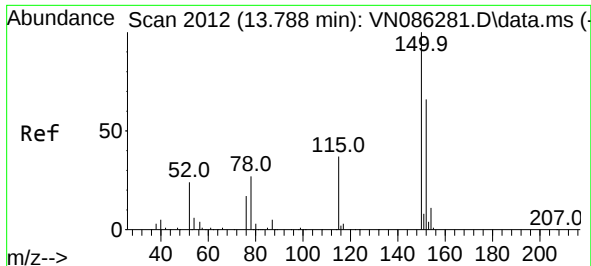
Tgt Ion:117 Resp: 304252
Ion Ratio Lower Upper
117 100
82 54.9 44.7 67.1
119 32.1 26.4 39.6



#71
Bromoform
Concen: 0.372 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion:173 Resp: 627
Ion Ratio Lower Upper
173 100
175 1034.6 24.6 73.6#
254 0.0 0.0 0.0

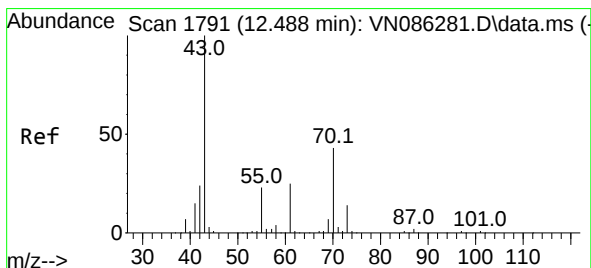
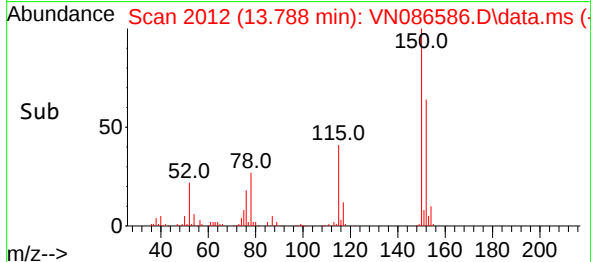
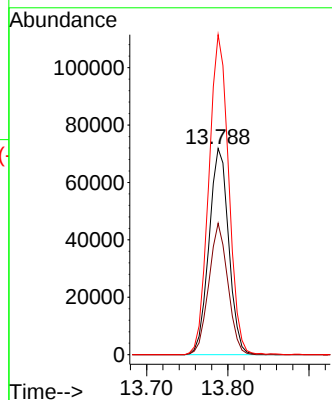
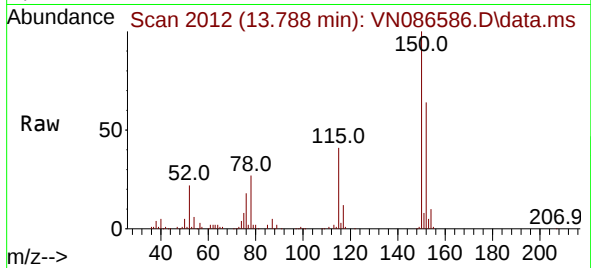




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

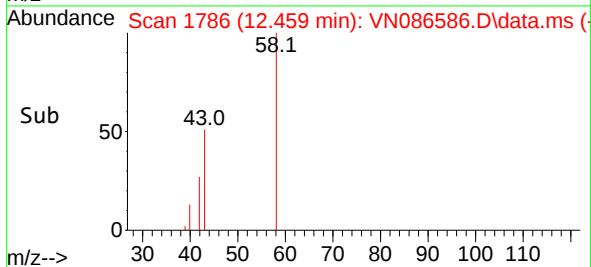
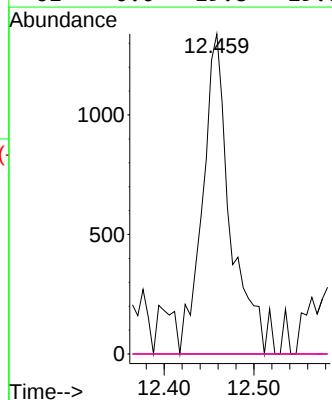
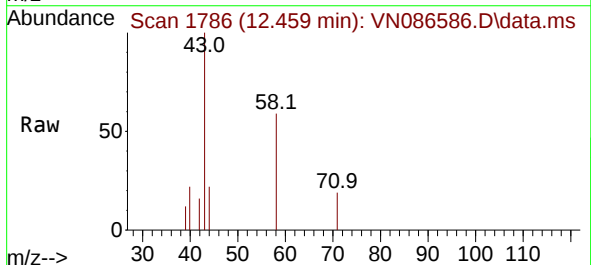
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

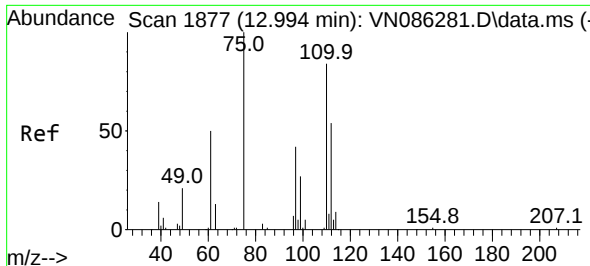
Tgt Ion:152 Resp: 120970
Ion Ratio Lower Upper
152 100
115 61.4 31.9 95.9
150 156.5 0.0 352.0



#74
N-ethyl acetate
Concen: 0.590 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 43 Resp: 2908
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#

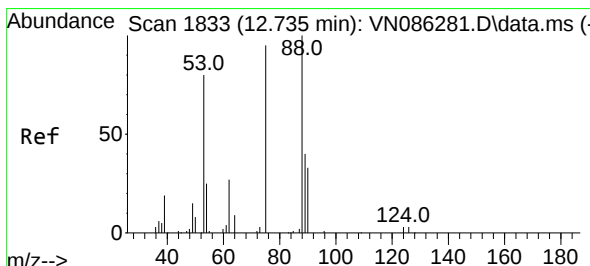
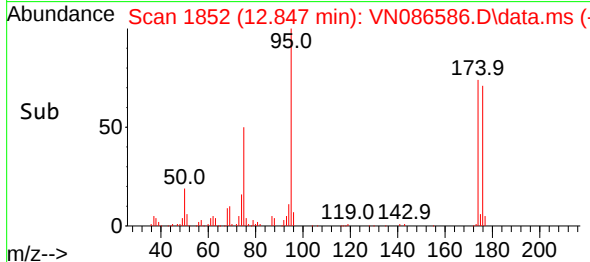
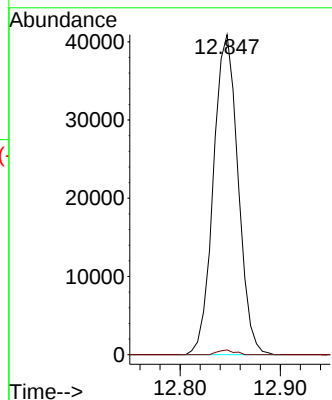
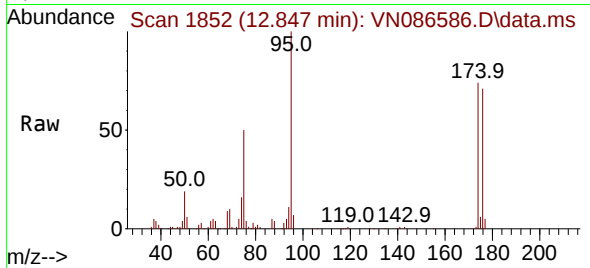




#76
1,2,3-Trichloropropane
Concen: 24.474 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#11

Tgt Ion: 75 Resp: 69865
Ion Ratio Lower Upper
75 100
77 1.0 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.776 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086586.D
Acq: 12 May 2025 17:17

Tgt Ion: 75 Resp: 69865
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

