

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086608.D
 Acq On : 13 May 2025 17:49
 Operator : JC\MD
 Sample : PB167964ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#06

Quant Time: May 14 01:48:33 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)

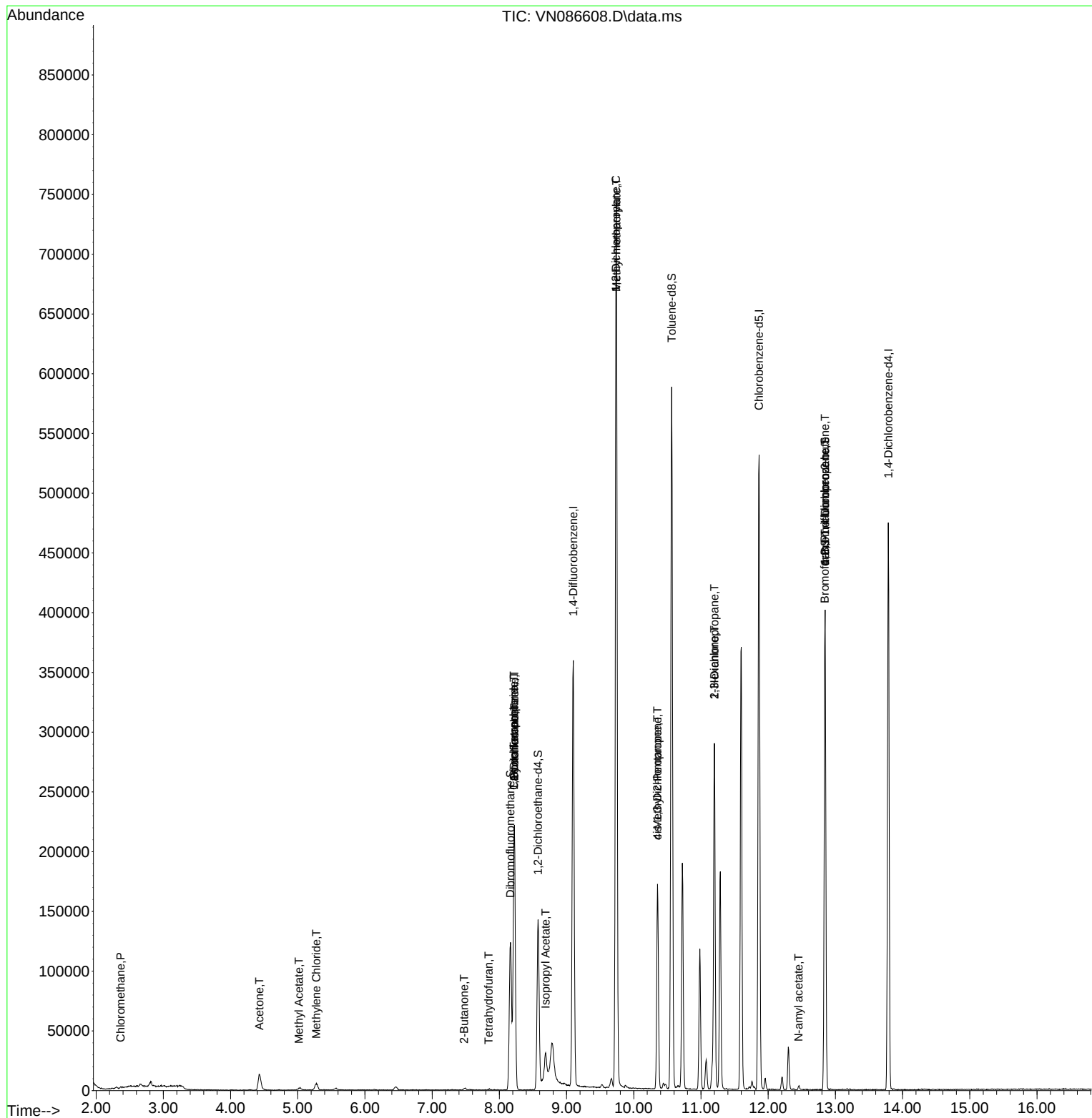
Internal Standards						
1) Pentafluorobenzene	8.224	168	162871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127388	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117525	49.761	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.520%		
35) Dibromofluoromethane	8.165	113	93804	63.661	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	127.320%#		
50) Toluene-d8	10.565	98	412345	52.361	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	104.720%		
62) 4-Bromofluorobenzene	12.847	95	144846	50.427	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.860%		
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	577	0.206	ug/l #	42
16) Acetone	4.430	43	26516	27.391	ug/l	96
18) Methyl Acetate	5.018	43	3830	1.351	ug/l	91
20) Methylene Chloride	5.277	84	4473	2.049	ug/l #	86
25) 2-Butanone	7.477	43	3304	2.247	ug/l	92
29) Tetrahydrofuran	7.841	42	492	0.500	ug/l #	41
31) Cyclohexane	8.224	56	3617	0.945	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13992	4.754	ug/l #	48
38) Carbon Tetrachloride	8.218	117	16356	5.836	ug/l #	16
43) Isopropyl Acetate	8.688	43	47595	6.817	ug/l #	74
45) 1,2-Dichloropropane	9.735	63	901	0.390	ug/l #	43
48) Methyl methacrylate	9.741	41	67927	24.964	ug/l #	42
51) 4-Methyl-2-Pentanone	10.353	43	63301	19.951	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	32124	8.249	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	2935	0.781	ug/l #	43
59) 2-Hexanone	11.200	43	53607	22.779	ug/l #	44
71) Bromoform	12.841	173	755	0.434	ug/l #	1
74) N-amyl acetate	12.453	43	2843	0.548	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	74363	24.737	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74363	59.409	ug/l #	10

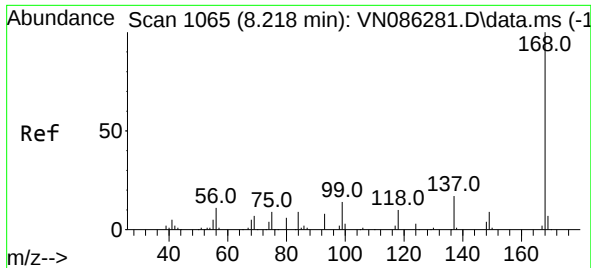
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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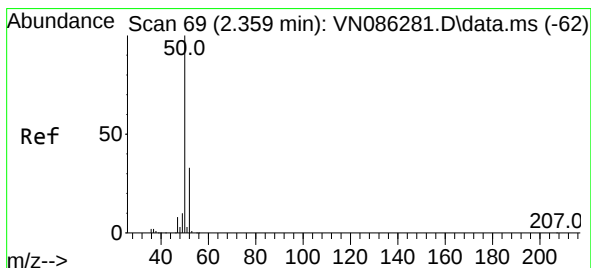
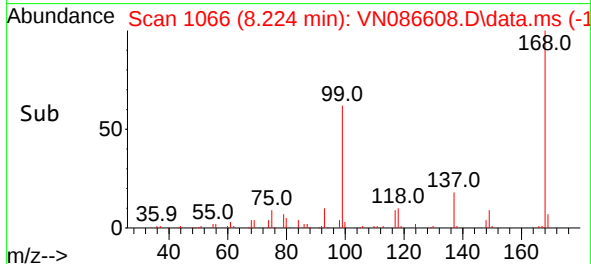
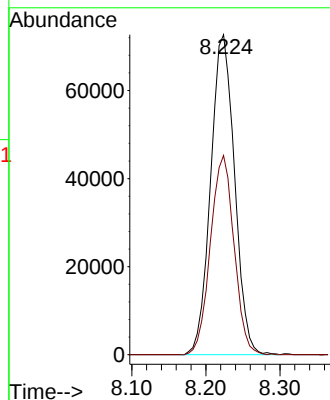
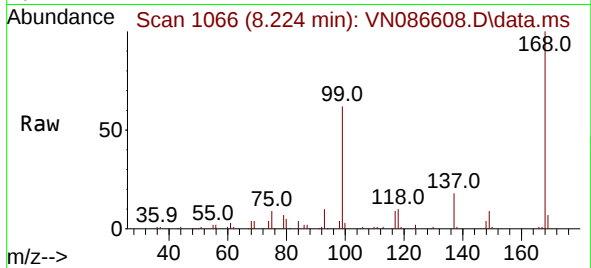




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

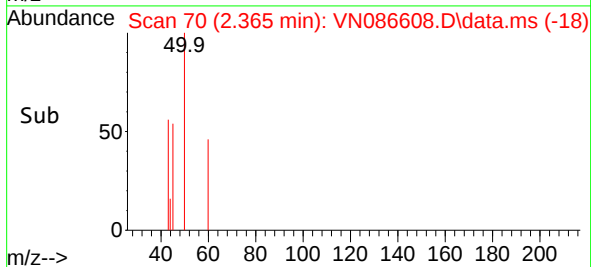
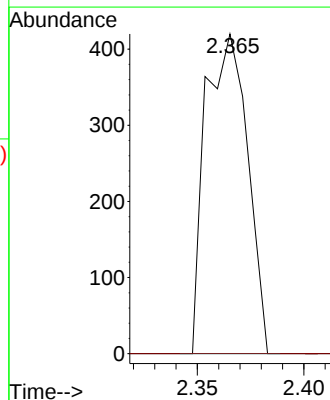
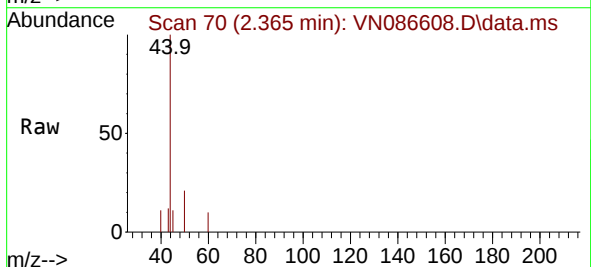
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

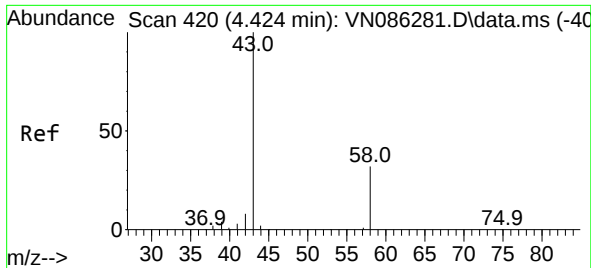
Tgt Ion:168 Resp: 162871
Ion Ratio Lower Upper
168 100
99 62.2 52.5 78.7



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 50 Resp: 577
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

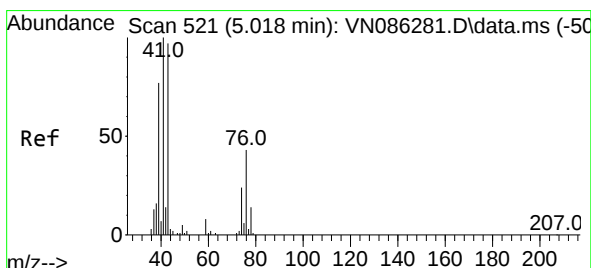
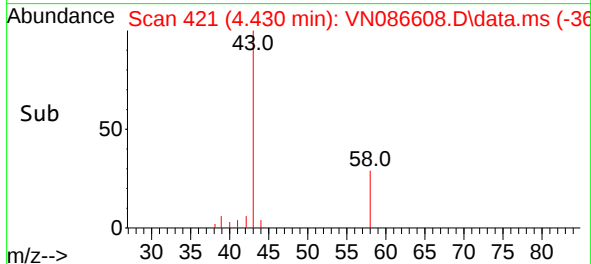
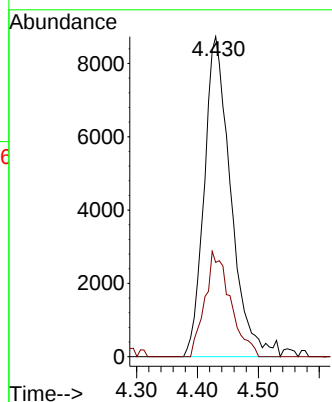
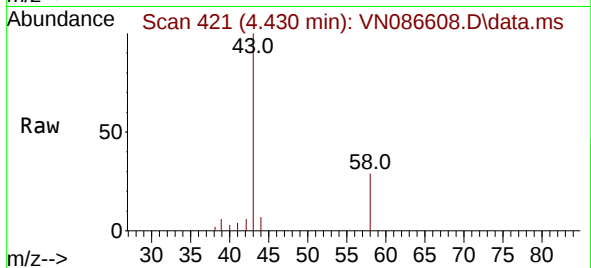




#16
Acetone
Concen: 27.391 ug/l
RT: 4.430 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

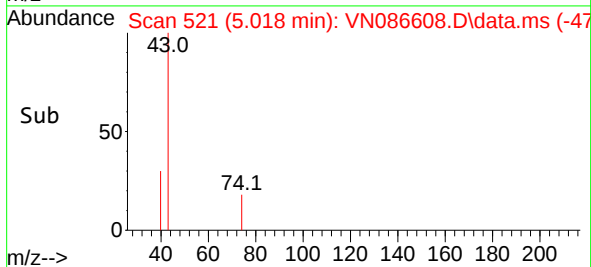
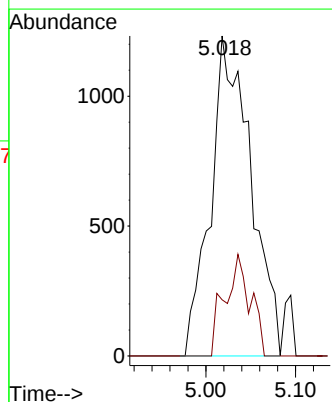
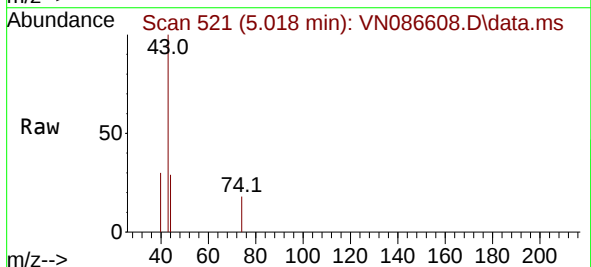
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

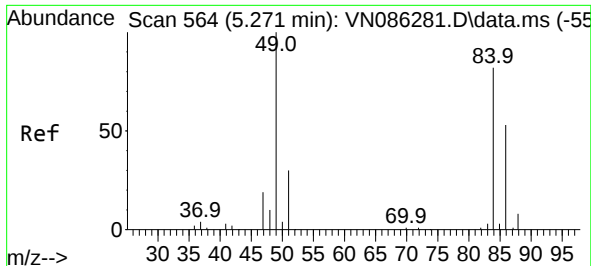
Tgt Ion: 43 Resp: 26516
Ion Ratio Lower Upper
43 100
58 29.5 25.3 37.9



#18
Methyl Acetate
Concen: 1.351 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

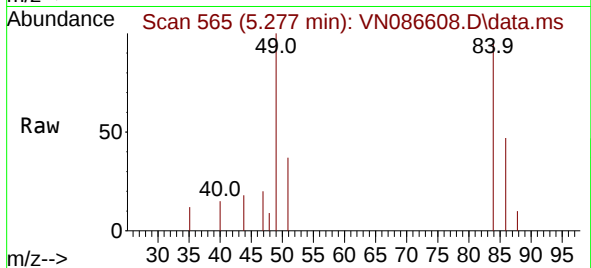
Tgt Ion: 43 Resp: 3830
Ion Ratio Lower Upper
43 100
74 20.2 19.8 29.6



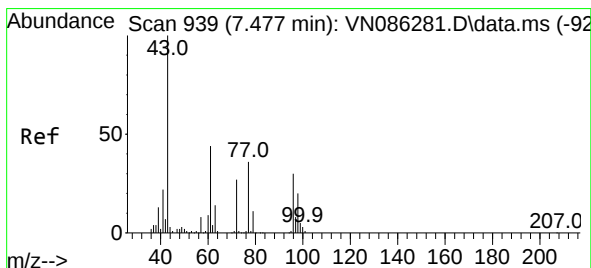
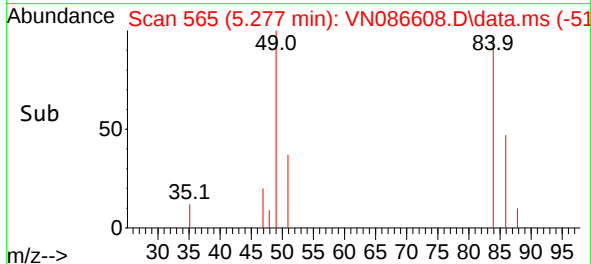
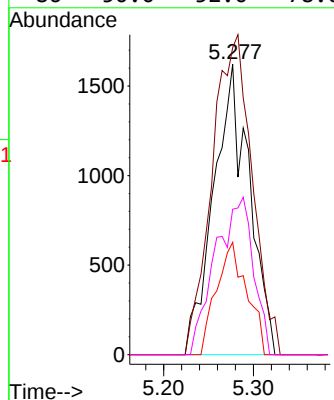


#20
Methylene Chloride
Concen: 2.049 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

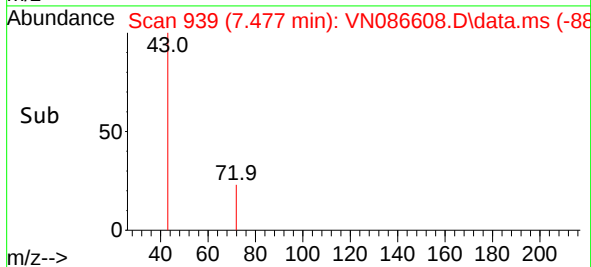
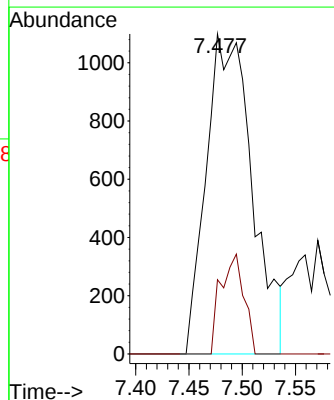
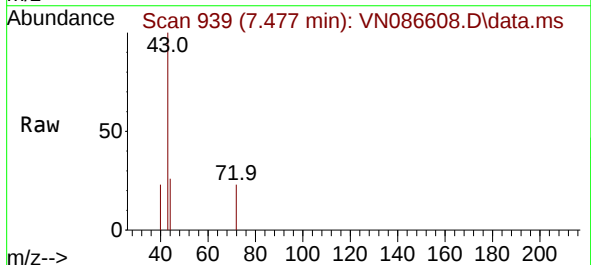


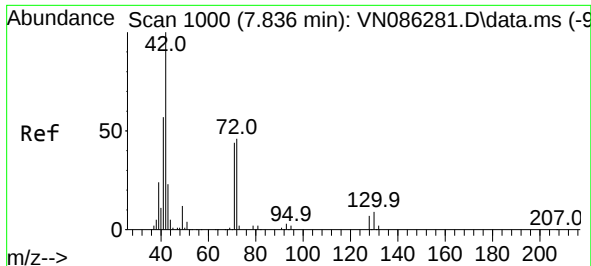
Tgt Ion:	84	Resp:	4473
Ion	Ratio	Lower	Upper
84	100		
49	105.7	98.2	147.2
51	38.6	29.8	44.6
86	50.0	52.0	78.0



#25
2-Butanone
Concen: 2.247 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion:	43	Resp:	3304
Ion	Ratio	Lower	Upper
43	100		
72	23.2	21.7	32.5

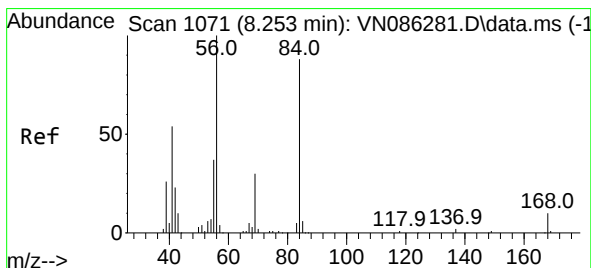
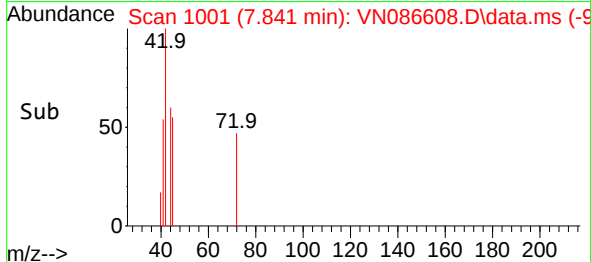
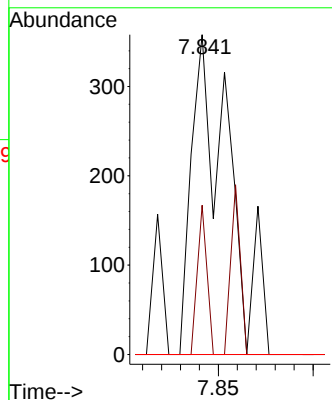
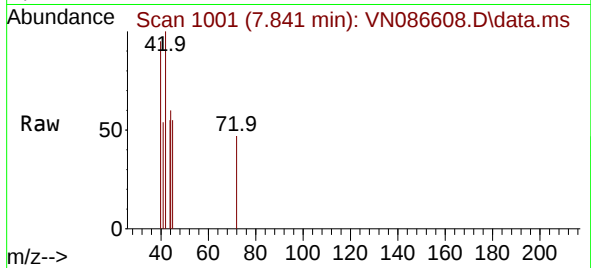




#29
Tetrahydrofuran
Concen: 0.500 ug/l
RT: 7.841 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

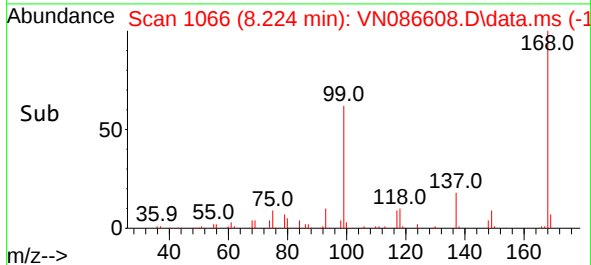
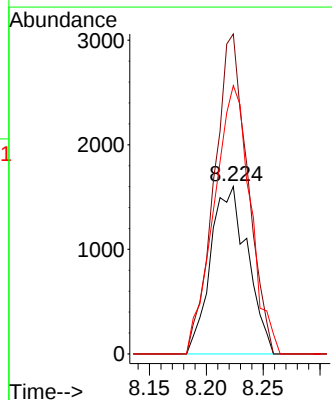
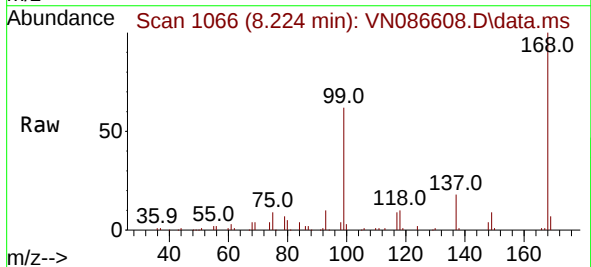
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

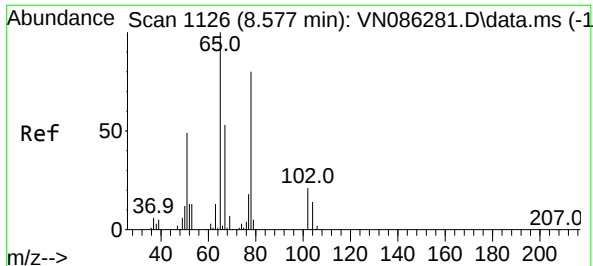
Tgt Ion: 42 Resp: 492
Ion Ratio Lower Upper
42 100
72 12.0 36.2 54.4#
71 0.0 34.0 51.0#



#31
Cyclohexane
Concen: 0.945 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 56 Resp: 3617
Ion Ratio Lower Upper
56 100
69 191.0 24.2 36.2#
84 160.2 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.761 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086608.D

Acq: 13 May 2025 17:49

Instrument :

MSVOA_N

ClientSampleId :

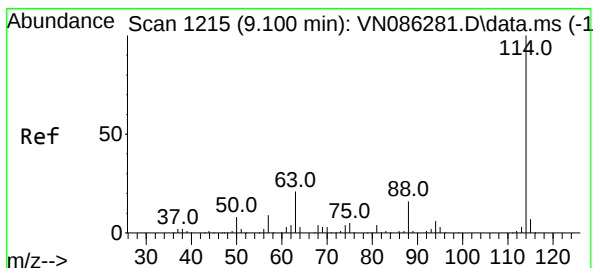
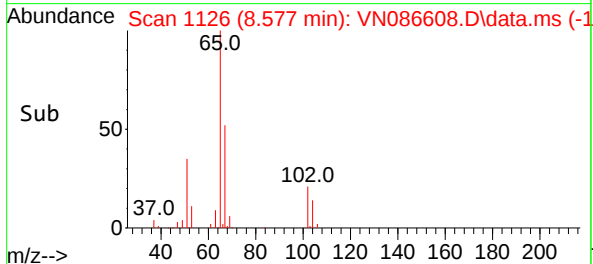
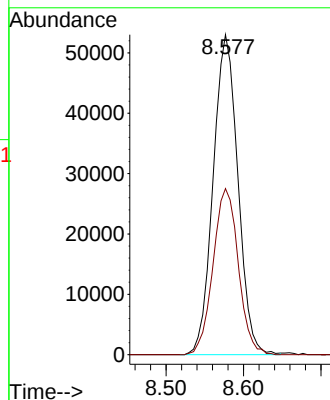
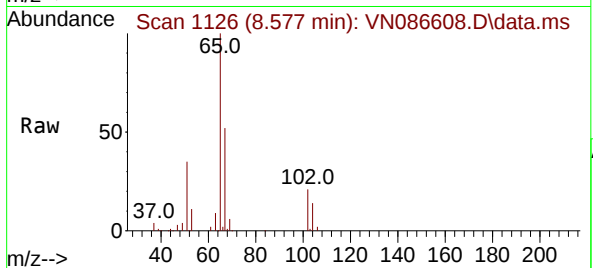
PB167964ZHE#06

Tgt Ion: 65 Resp: 117525

Ion Ratio Lower Upper

65 100

67 53.0 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: VN086608.D

Acq: 13 May 2025 17:49

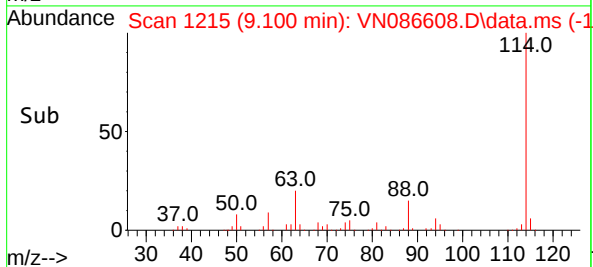
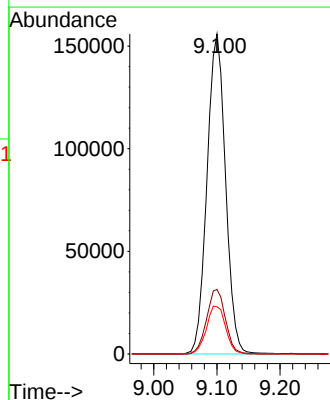
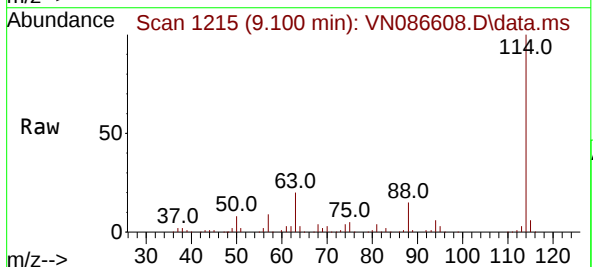
Tgt Ion: 114 Resp: 317488

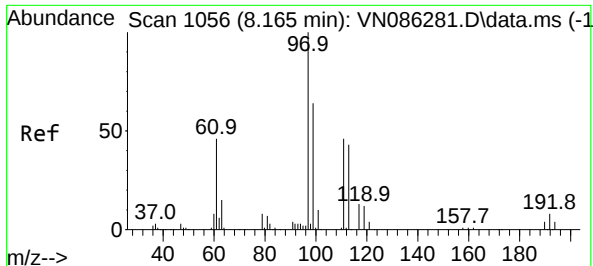
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 14.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.661 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086608.D

Acq: 13 May 2025 17:49

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#06

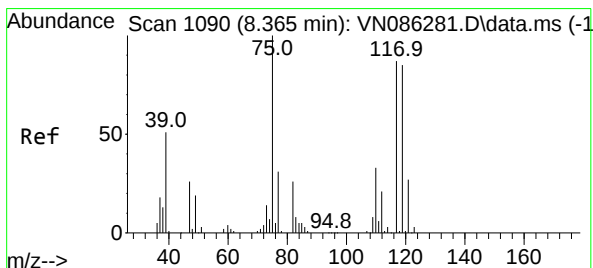
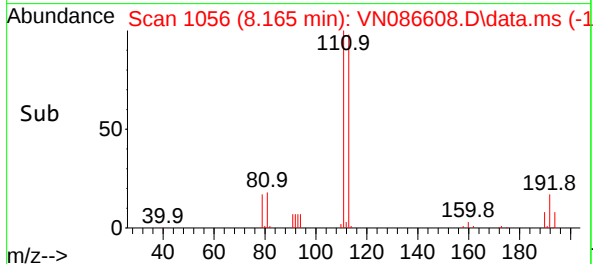
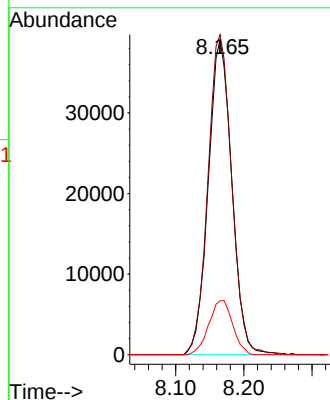
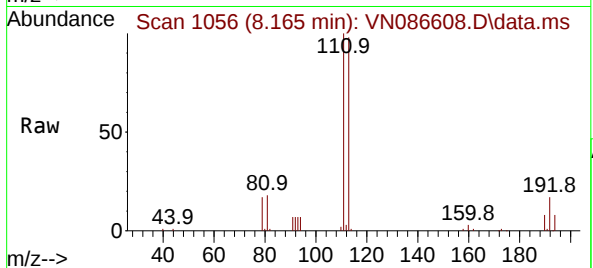
Tgt Ion:113 Resp: 93804

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.0

192 17.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.754 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086608.D

Acq: 13 May 2025 17:49

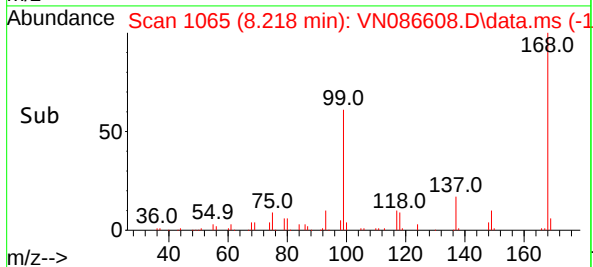
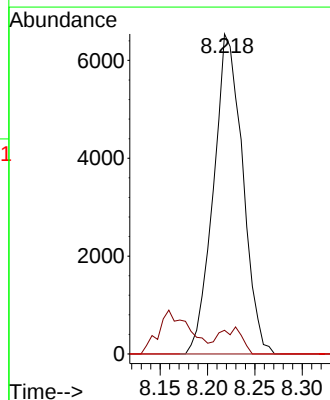
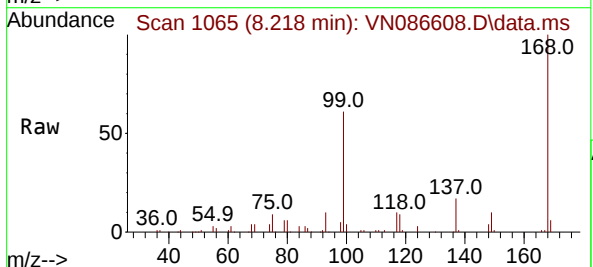
Tgt Ion: 75 Resp: 13992

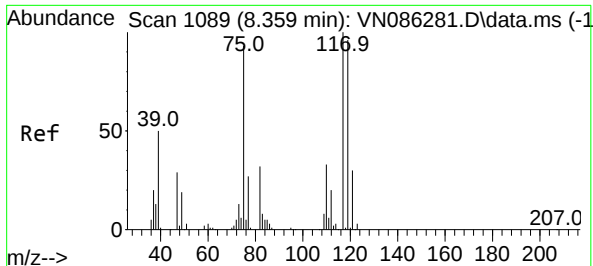
Ion Ratio Lower Upper

75 100

110 6.7 16.8 50.4#

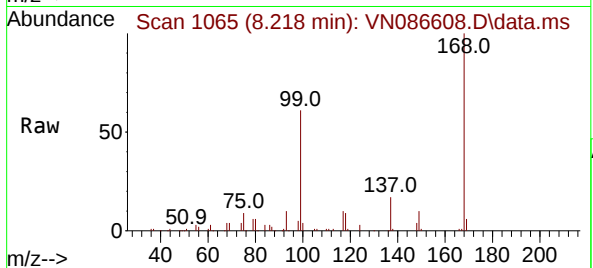
77 0.0 24.9 37.3#



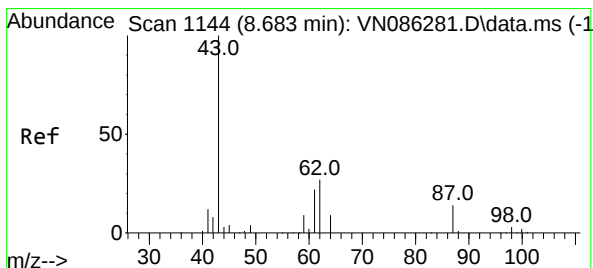
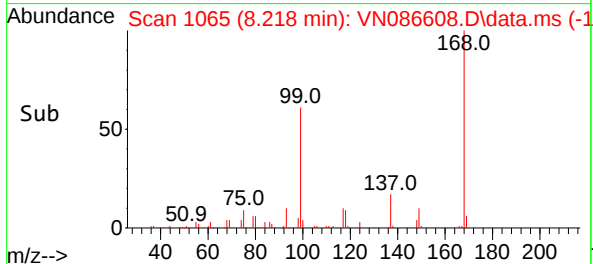
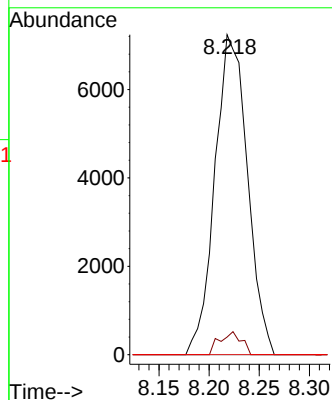


#38
Carbon Tetrachloride
Concen: 5.836 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

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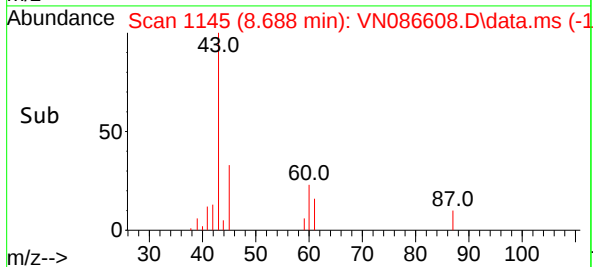
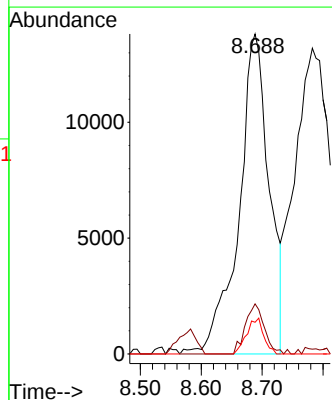
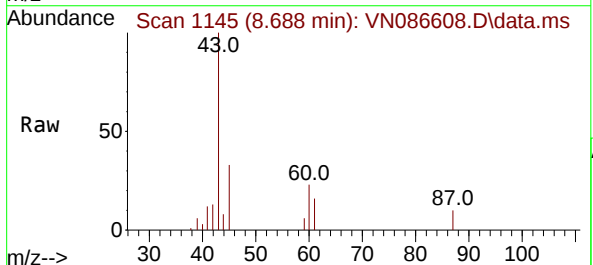


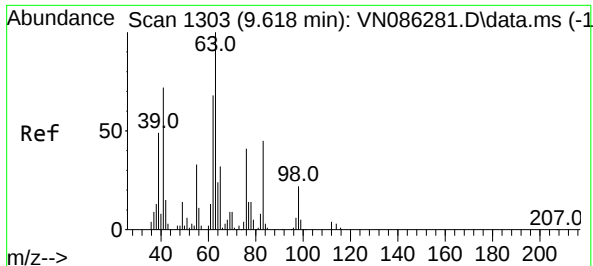
Tgt Ion:117 Resp: 16356
Ion Ratio Lower Upper
117 100
119 5.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.817 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 43 Resp: 47595
Ion Ratio Lower Upper
43 100
61 9.9 20.5 30.7#
87 6.3 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.390 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086608.D

Acq: 13 May 2025 17:49

Instrument :

MSVOA_N

ClientSampleId :

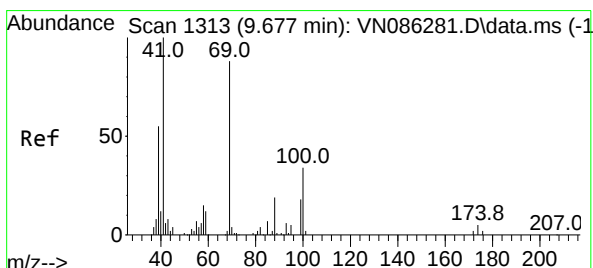
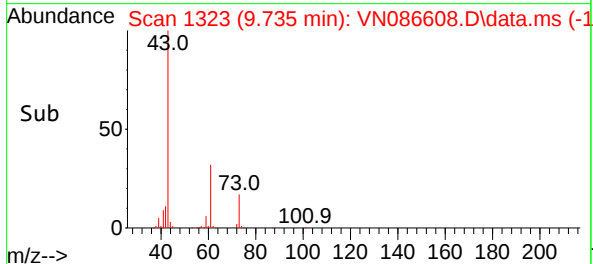
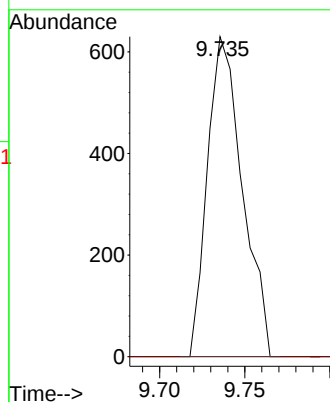
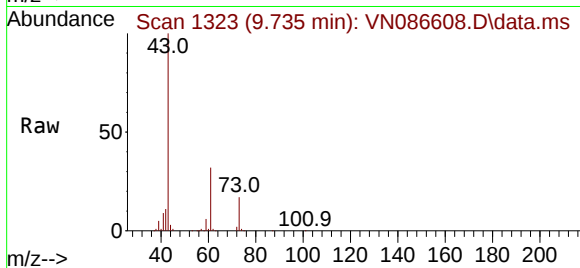
PB167964ZHE#06

Tgt Ion: 63 Resp: 901

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.964 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086608.D

Acq: 13 May 2025 17:49

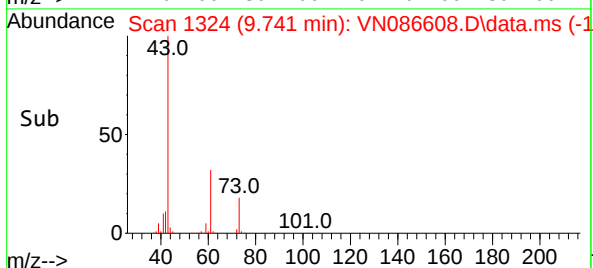
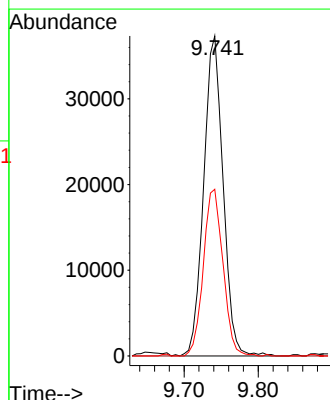
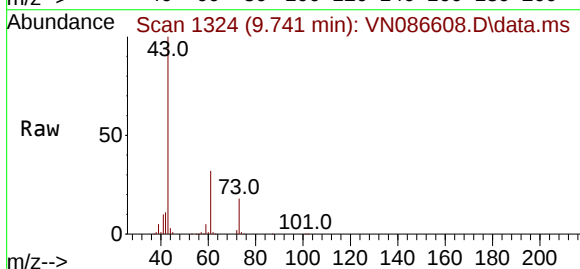
Tgt Ion: 41 Resp: 67927

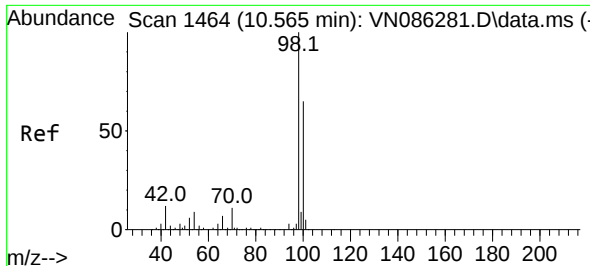
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 52.7 45.2 67.8

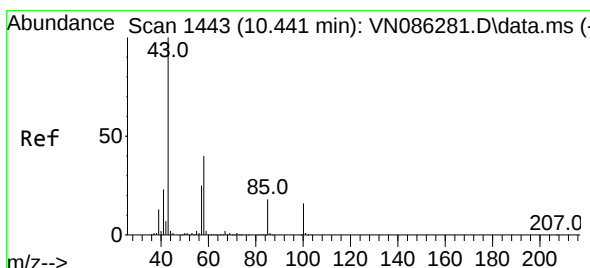
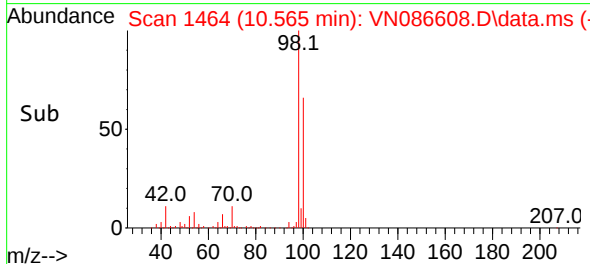
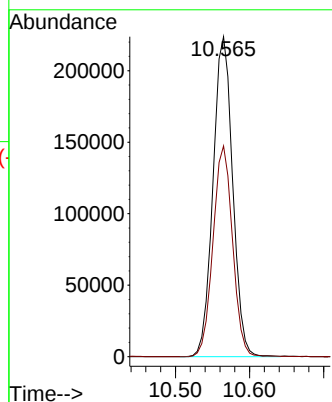
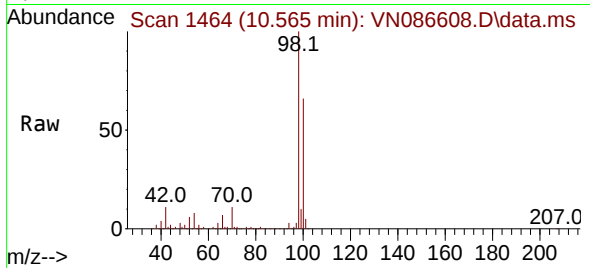




#50
Toluene-d8
Concen: 52.361 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

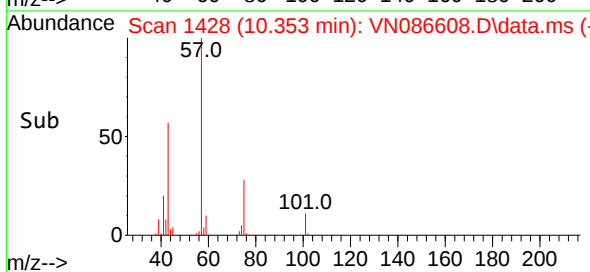
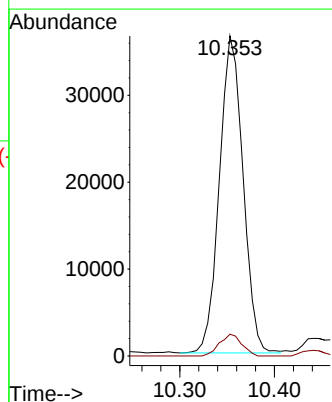
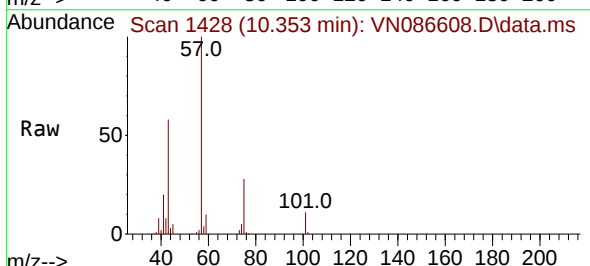
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

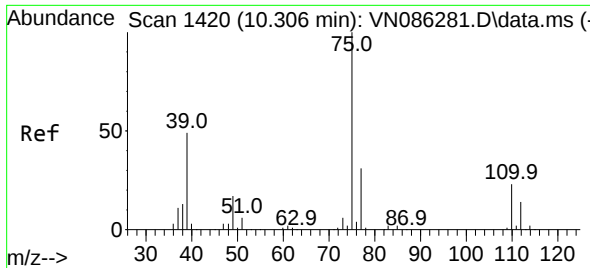
Tgt Ion: 98 Resp: 412345
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 19.951 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. -0.088 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 43 Resp: 63301
Ion Ratio Lower Upper
43 100
58 6.4 32.2 48.4#

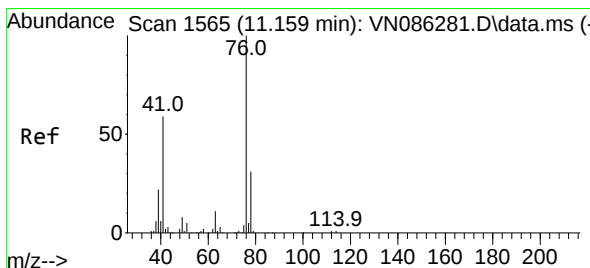
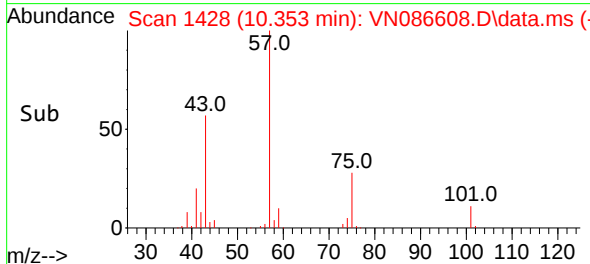
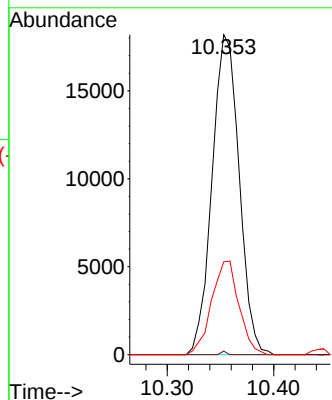
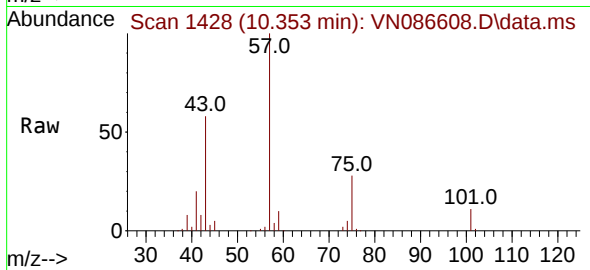




#54
 cis-1,3-Dichloropropene
 Concen: 8.249 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086608.D
 Acq: 13 May 2025 17:49

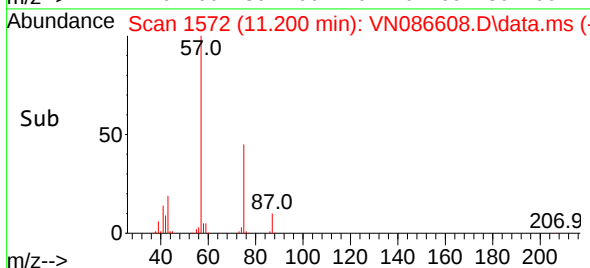
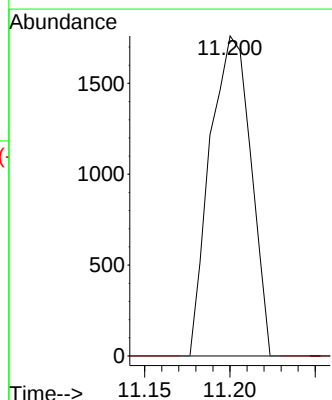
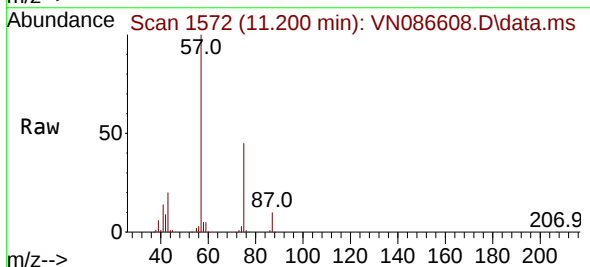
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#06

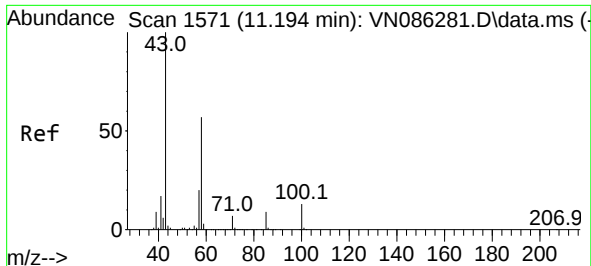
Tgt Ion: 75 Resp: 32124
 Ion Ratio Lower Upper
 75 100
 77 1.1 25.2 37.8#
 39 29.0 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.781 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086608.D
 Acq: 13 May 2025 17:49

Tgt Ion: 76 Resp: 2935
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

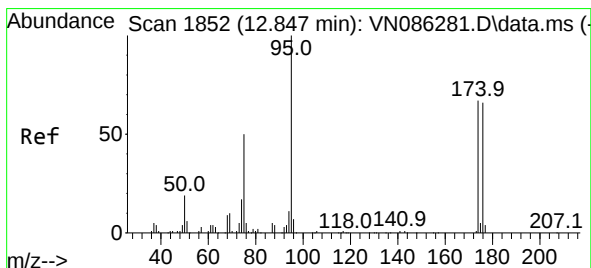
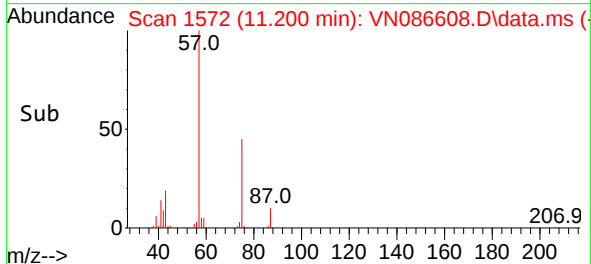
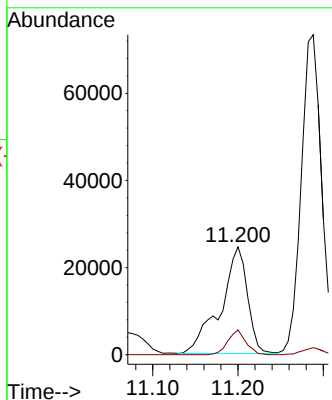
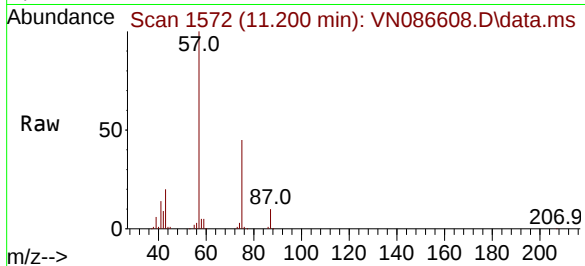




#59
2-Hexanone
Concen: 22.779 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

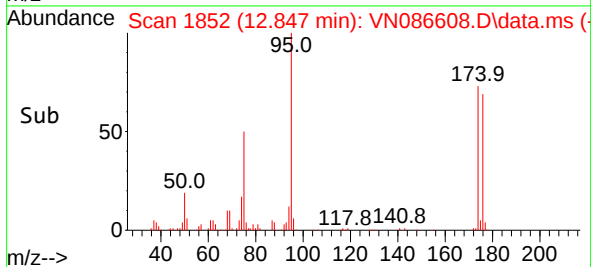
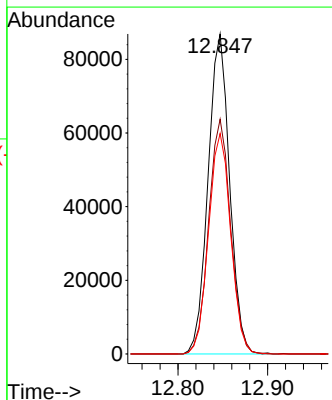
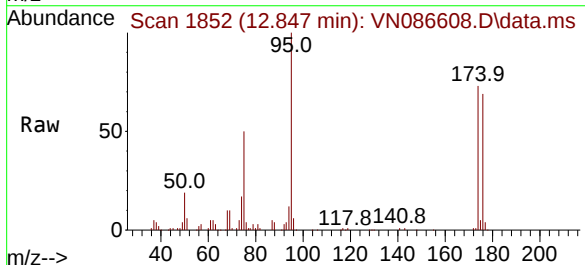
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

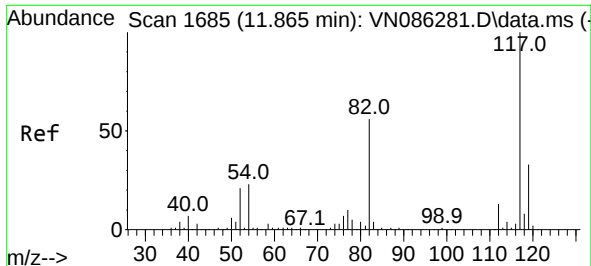
Tgt Ion: 43 Resp: 53607
Ion Ratio Lower Upper
43 100
58 15.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.427 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 95 Resp: 144846
Ion Ratio Lower Upper
95 100
174 74.9 0.0 133.4
176 70.8 0.0 129.2

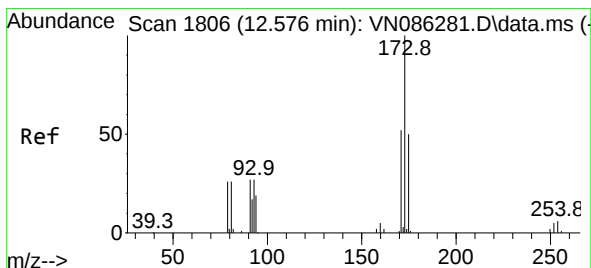
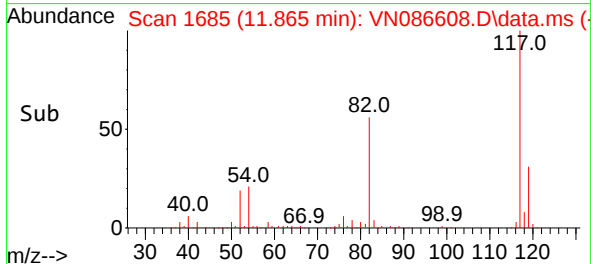
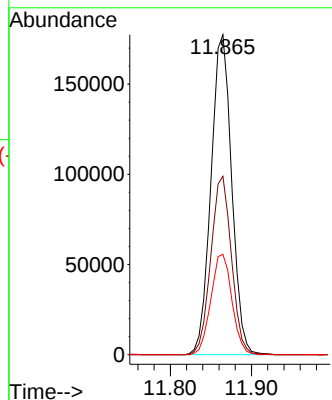
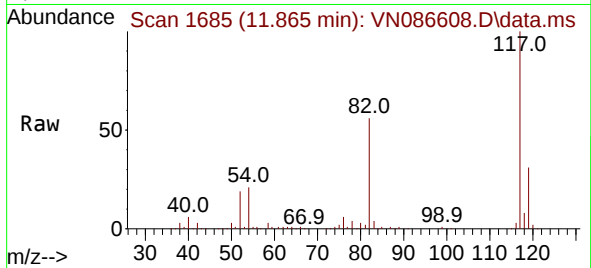




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

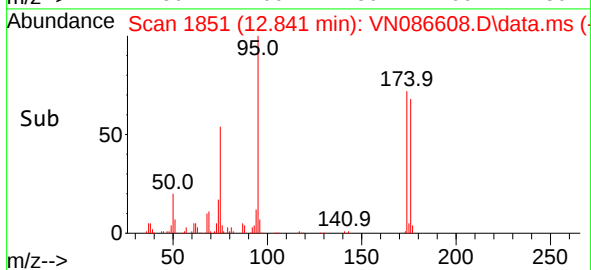
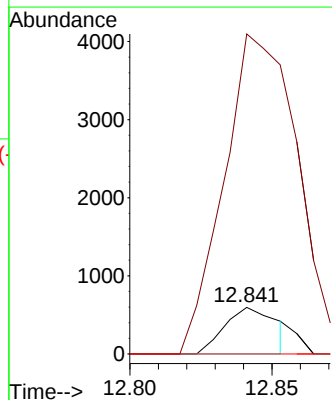
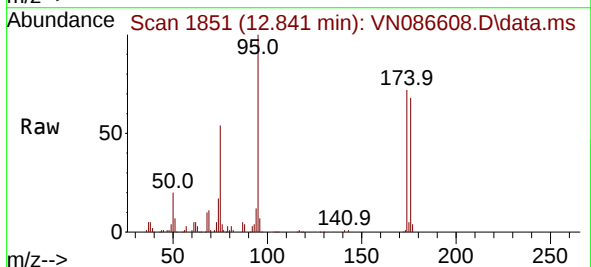
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

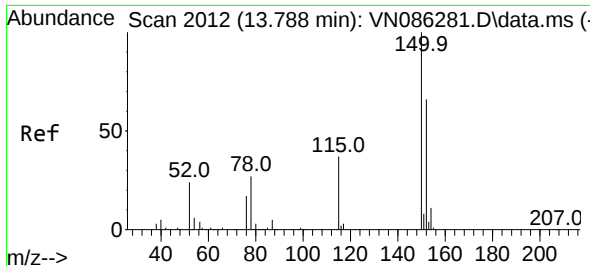
Tgt Ion:117 Resp: 313995
Ion Ratio Lower Upper
117 100
82 55.7 44.7 67.1
119 31.3 26.4 39.6



#71
Bromoform
Concen: 0.434 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion:173 Resp: 755
Ion Ratio Lower Upper
173 100
175 770.7 24.6 73.6#
254 0.0 0.0 0.0

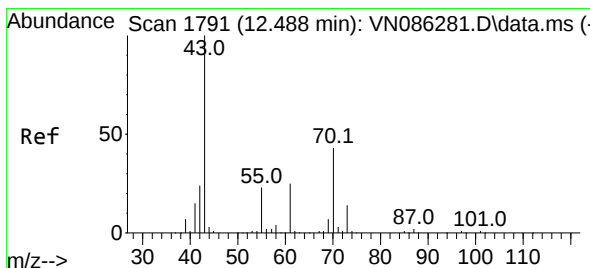
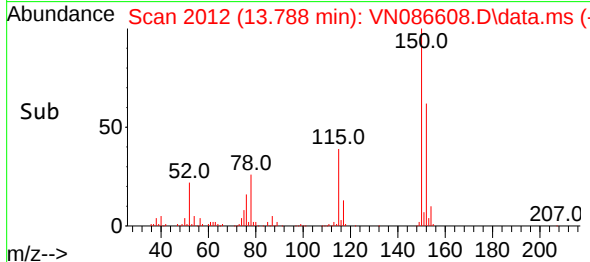
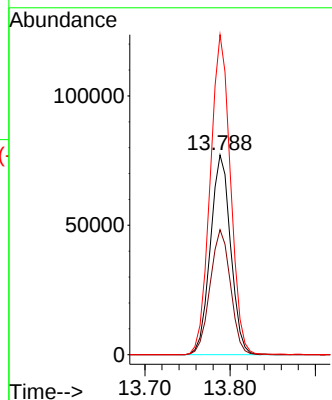
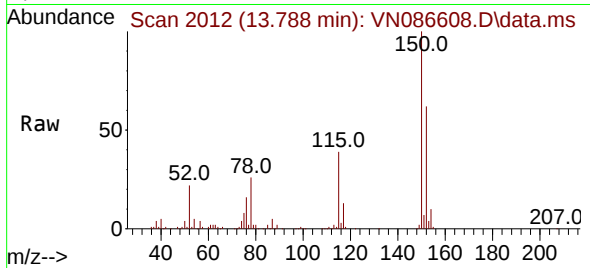




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

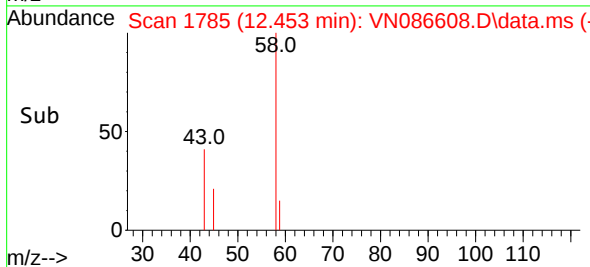
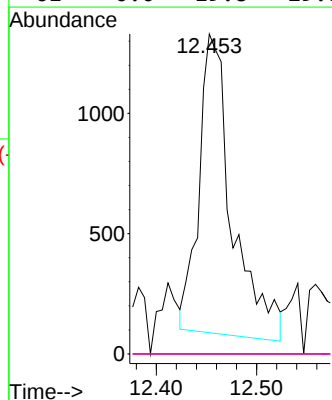
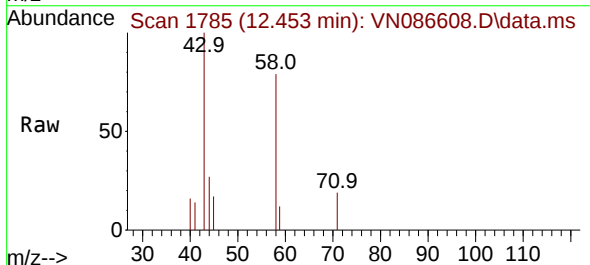
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ClientSampleId :
PB167964ZHE#06

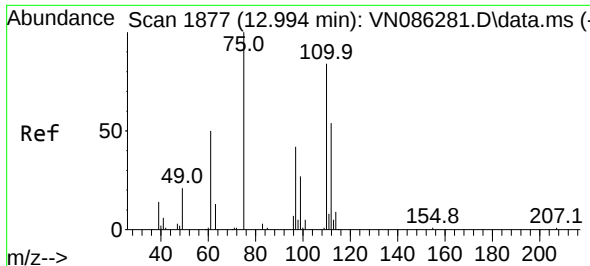
Tgt Ion:152 Resp: 127388
Ion Ratio Lower Upper
152 100
115 62.9 31.9 95.9
150 160.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.548 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 43 Resp: 2843
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#

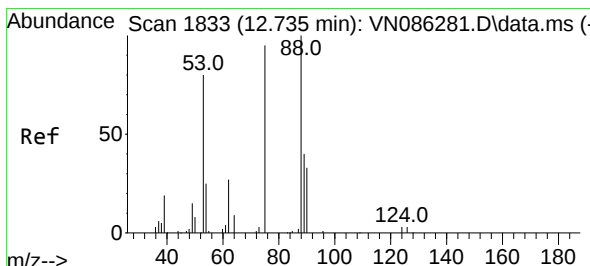
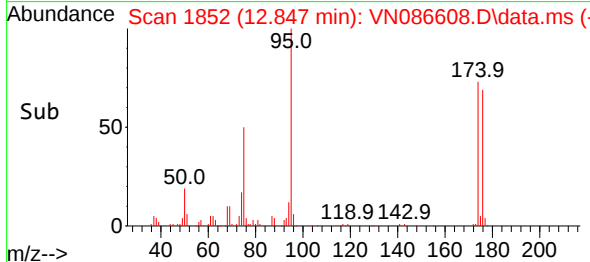
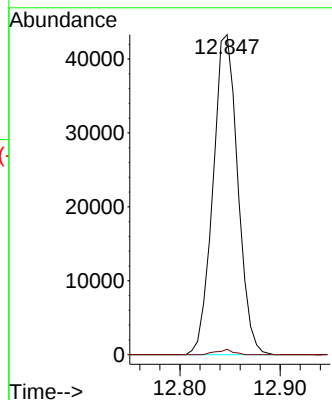
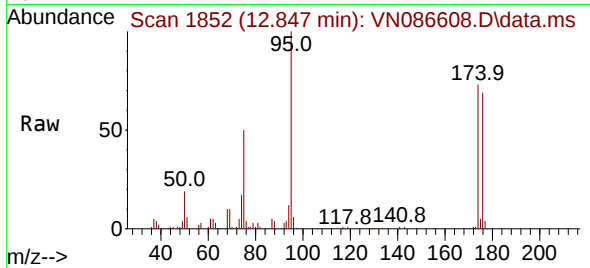




#76
1,2,3-Trichloropropane
Concen: 24.737 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#06

Tgt Ion: 75 Resp: 74363
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.409 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086608.D
Acq: 13 May 2025 17:49

Tgt Ion: 75 Resp: 74363
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

