

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086605.D
 Acq On : 13 May 2025 16:36
 Operator : JC\MD
 Sample : PB167964ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#03

Quant Time: May 14 01:47:09 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)

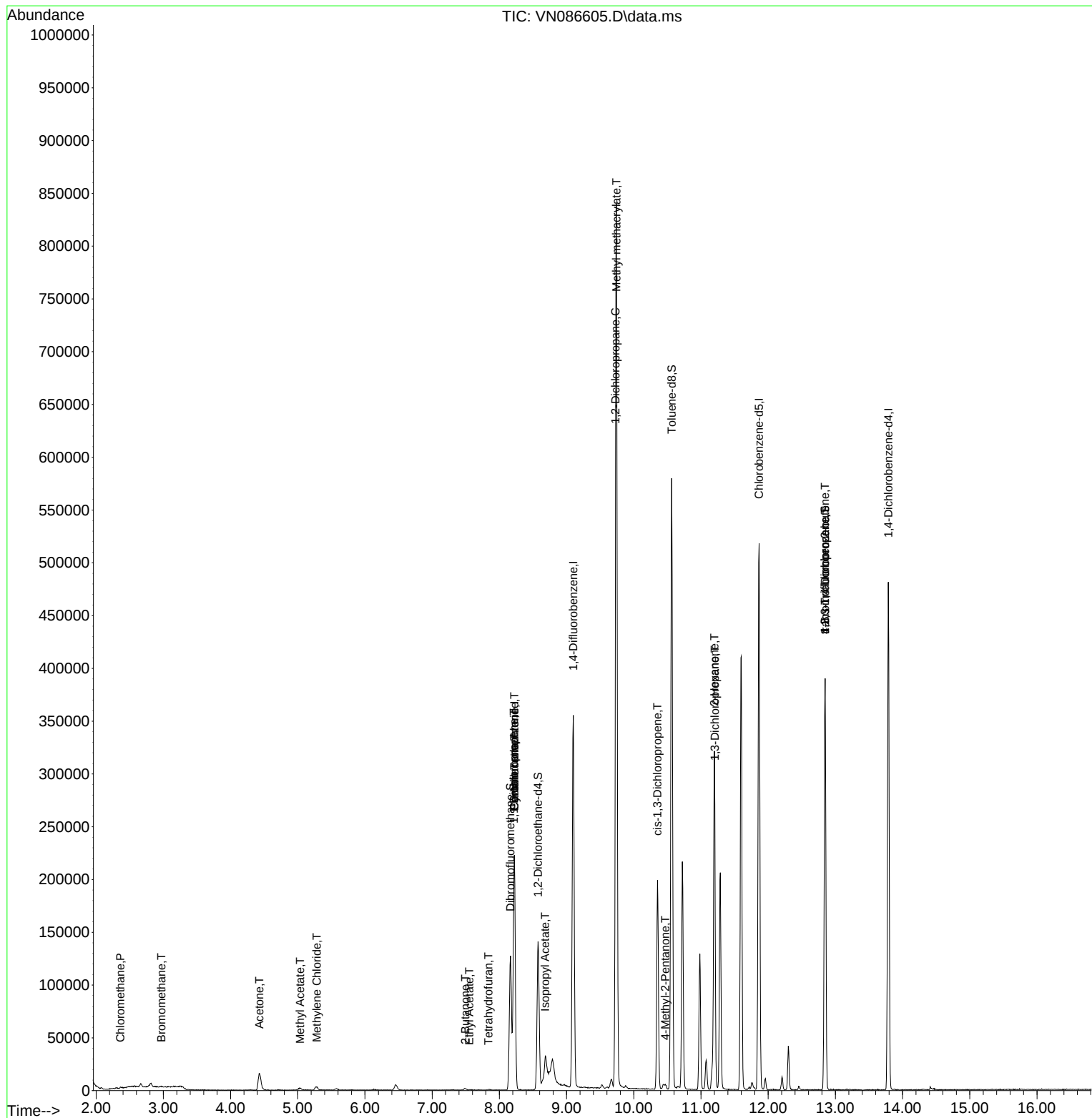
Internal Standards						
1) Pentafluorobenzene	8.224	168	160860	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	310136	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306509	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128783	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	115742	49.619	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.240%
35) Dibromofluoromethane	8.165	113	92859	64.513	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	129.020%#
50) Toluene-d8	10.565	98	401210	52.154	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.300%
62) 4-Bromofluorobenzene	12.847	95	143278	51.064	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.120%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	796	0.287	ug/l #	82
5) Bromomethane	2.971	94	263	0.221	ug/l	96
13) Acrolein	4.194	56	60	Below Cal	#	13
16) Acetone	4.430	43	31606	34.265	ug/l	95
18) Methyl Acetate	5.036	43	4031	1.440	ug/l	92
20) Methylene Chloride	5.283	84	2619	1.214	ug/l #	81
25) 2-Butanone	7.494	43	2803	1.931	ug/l	100
29) Tetrahydrofuran	7.835	42	419	0.432	ug/l #	32
31) Cyclohexane	8.224	56	3627	0.959	ug/l #	8
36) 1,1-Dichloropropene	8.218	75	13278	4.619	ug/l #	50
37) Ethyl Acetate	7.553	43	819	0.271	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16410	5.994	ug/l #	16
43) Isopropyl Acetate	8.682	43	50913	7.648	ug/l #	74
45) 1,2-Dichloropropane	9.729	63	1105	0.490	ug/l #	43
48) Methyl methacrylate	9.741	41	76188	28.664	ug/l #	42
51) 4-Methyl-2-Pentanone	10.471	43	7179	2.316	ug/l #	35
54) cis-1,3-Dichloropropene	10.353	75	37016	9.730	ug/l #	59
57) 1,3-Dichloropropane	11.206	76	3624	0.988	ug/l #	43
59) 2-Hexanone	11.200	43	60195	26.184	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	73324	24.127	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73324	57.944	ug/l #	10

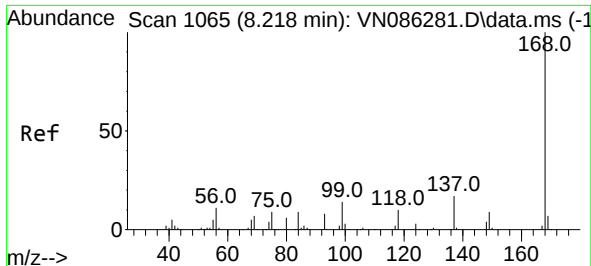
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
Data File : VN086605.D
Acq On : 13 May 2025 16:36
Operator : JC\MD
Sample : PB167964ZHE#03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

Quant Time: May 14 01:47:09 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

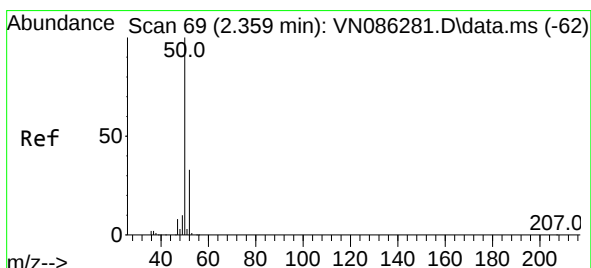
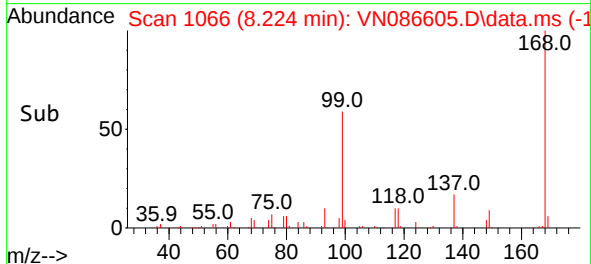
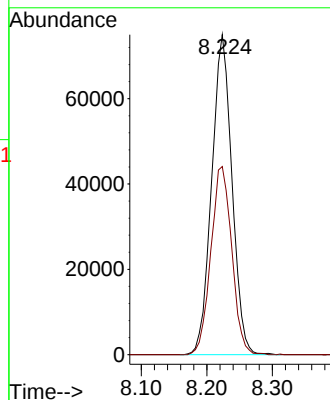
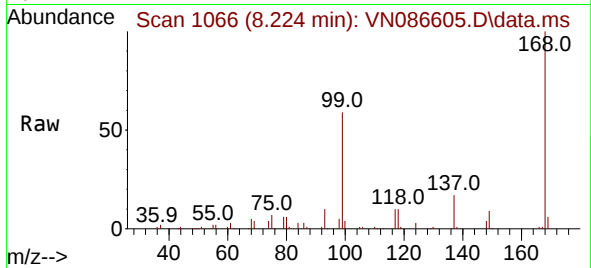




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

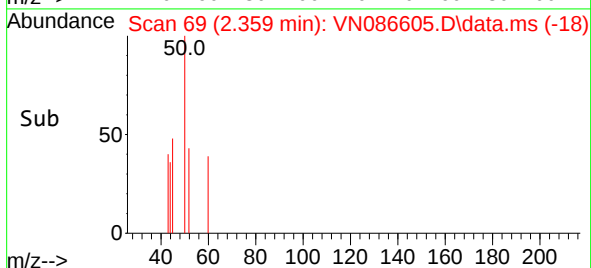
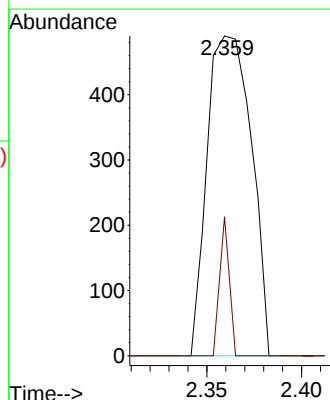
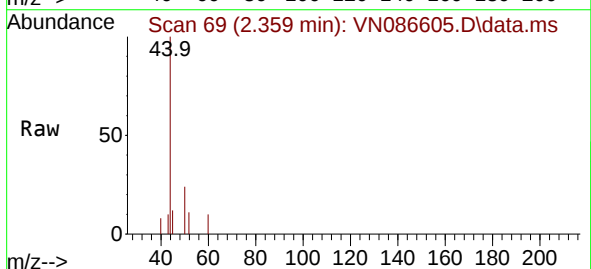
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

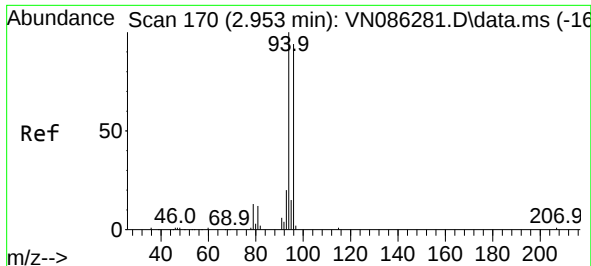
Tgt Ion:168 Resp: 160860
Ion Ratio Lower Upper
168 100
99 58.8 52.5 78.7



#3
Chloromethane
Concen: 0.287 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion: 50 Resp: 796
Ion Ratio Lower Upper
50 100
52 43.5 26.5 39.7#

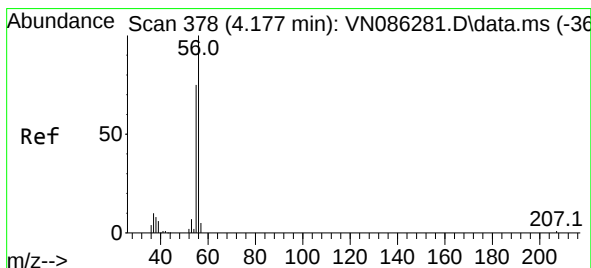
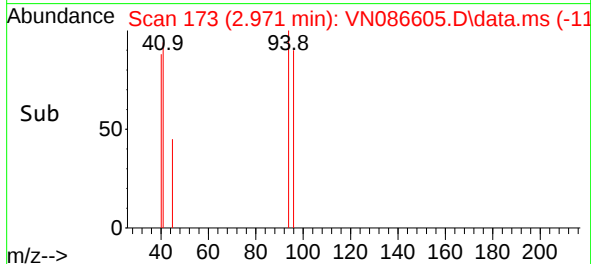
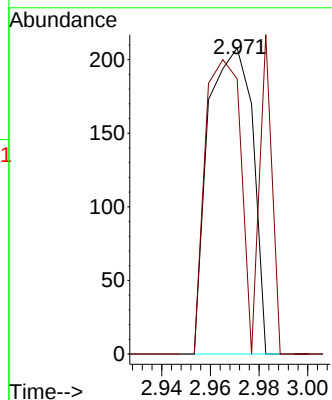
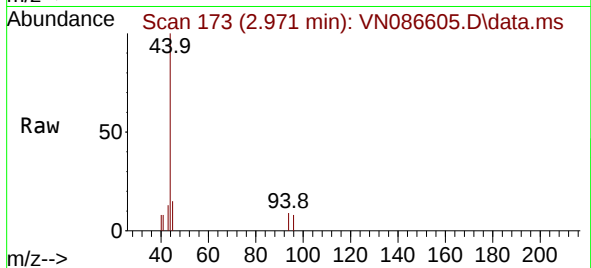




#5
Bromomethane
Concen: 0.221 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

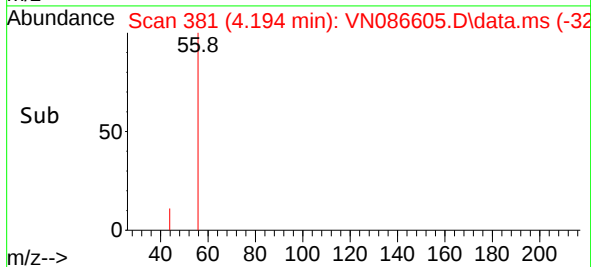
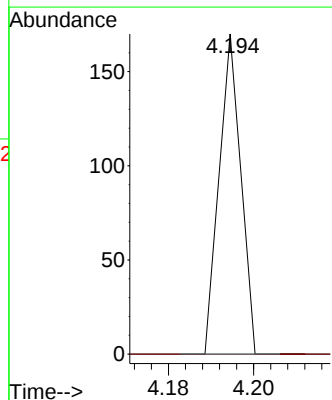
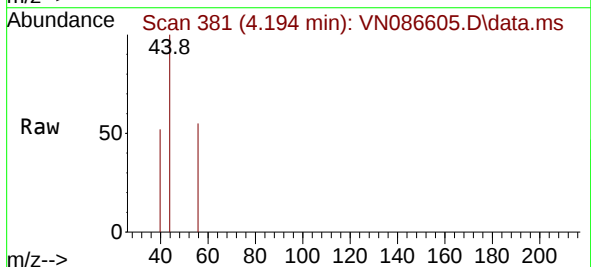
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

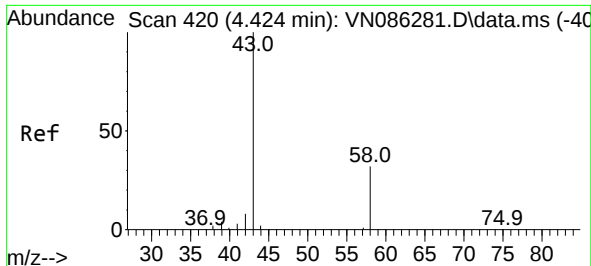
Tgt Ion: 94 Resp: 263
Ion Ratio Lower Upper
94 100
96 89.9 75.2 112.8



#13
Acrolein
Concen: Below Cal
RT: 4.194 min Scan# 381
Delta R.T. 0.017 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

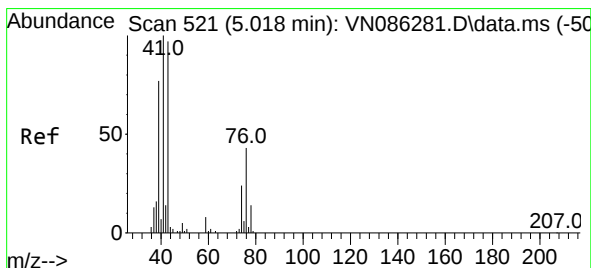
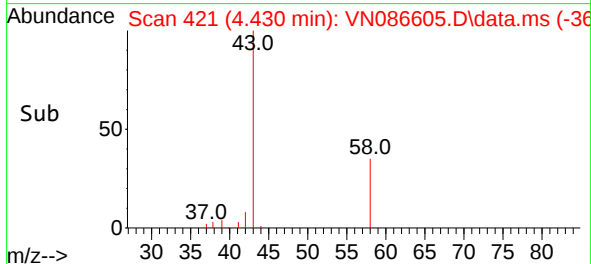
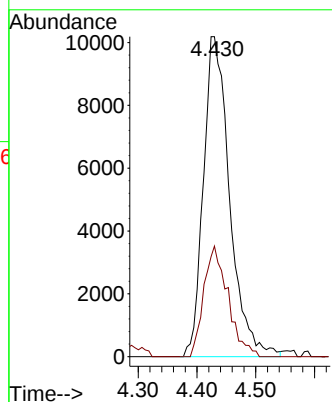
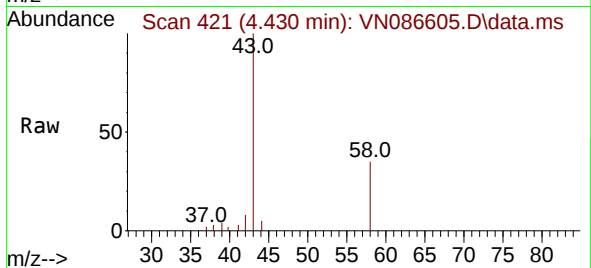




#16
Acetone
Concen: 34.265 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

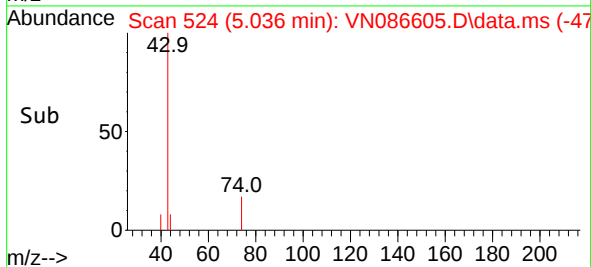
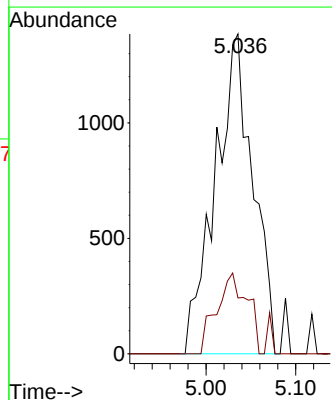
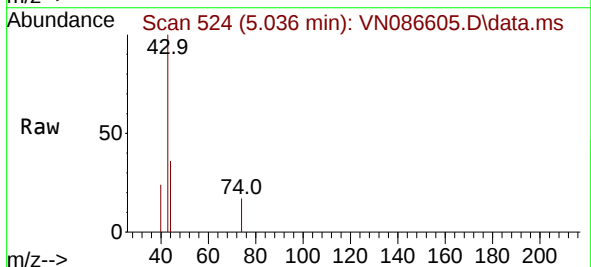
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

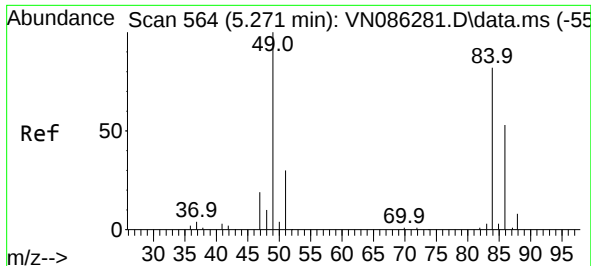
Tgt Ion: 43 Resp: 31606
Ion Ratio Lower Upper
43 100
58 34.5 25.3 37.9



#18
Methyl Acetate
Concen: 1.440 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

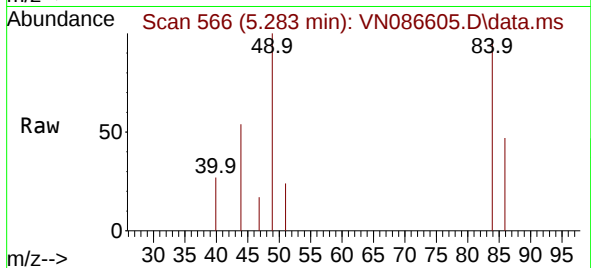
Tgt Ion: 43 Resp: 4031
Ion Ratio Lower Upper
43 100
74 20.6 19.8 29.6



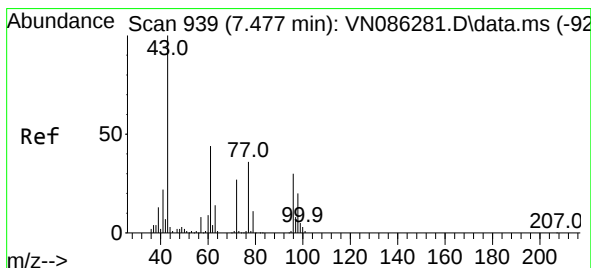
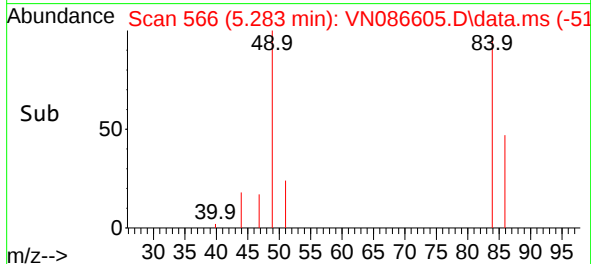
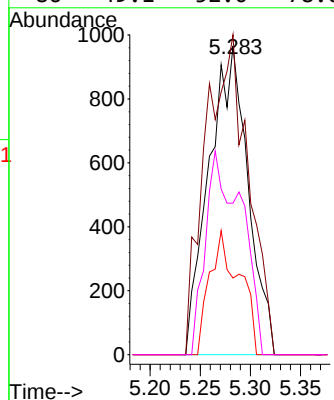


#20
Methylene Chloride
Concen: 1.214 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

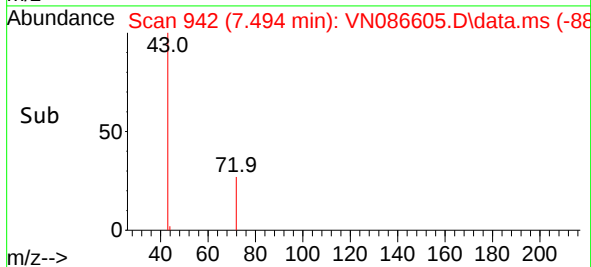
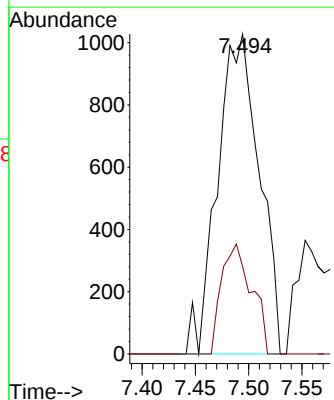
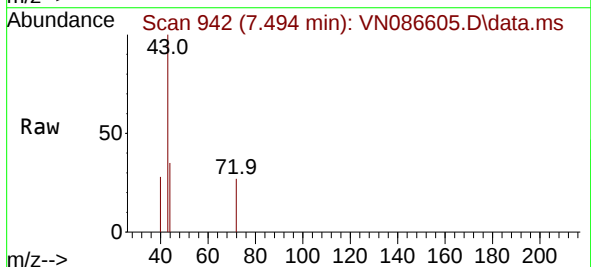


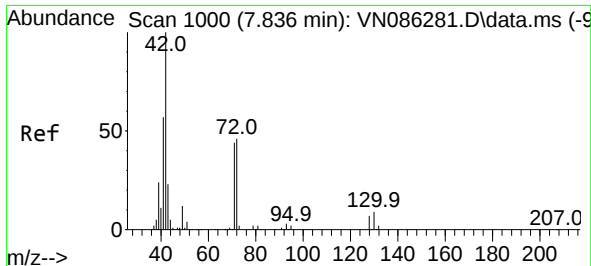
Tgt Ion:	84	Resp:	2619
Ion	Ratio	Lower	Upper
84	100		
49	103.6	98.2	147.2
51	24.8	29.8	44.6#
86	49.1	52.0	78.0#



#25
2-Butanone
Concen: 1.931 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion:	43	Resp:	2803
Ion	Ratio	Lower	Upper
43	100		
72	27.3	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#03

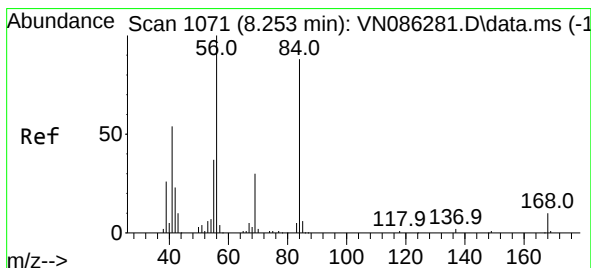
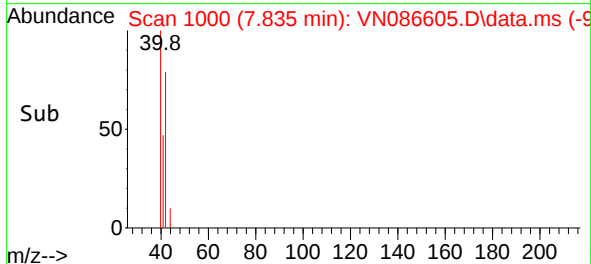
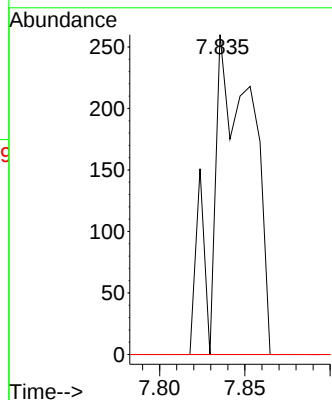
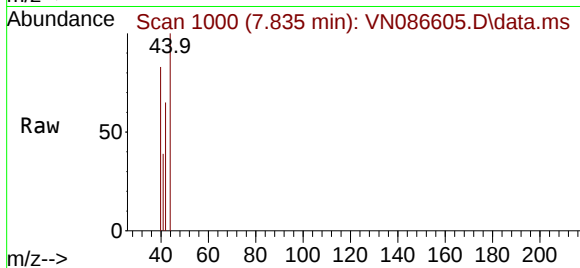
Tgt Ion: 42 Resp: 419

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 0.959 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

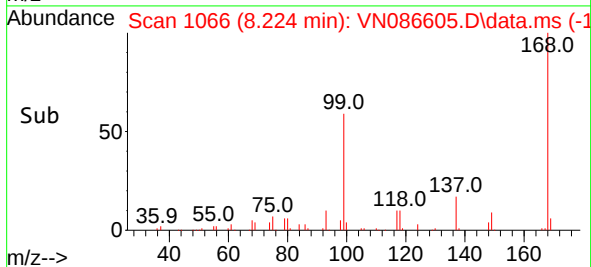
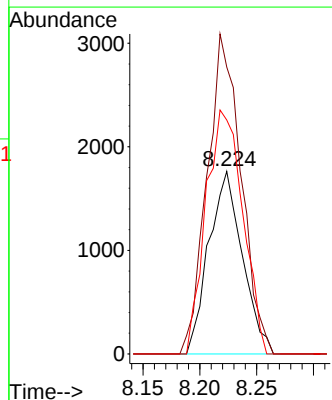
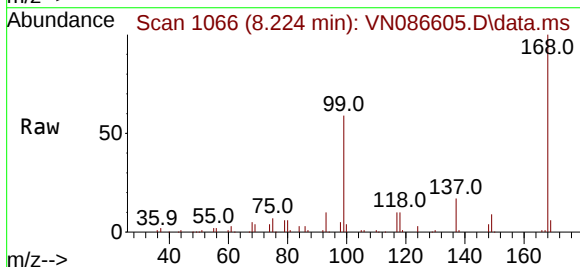
Tgt Ion: 56 Resp: 3627

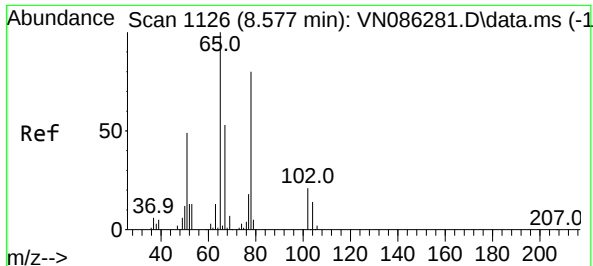
Ion Ratio Lower Upper

56 100

69 157.1 24.2 36.2#

84 128.1 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.619 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

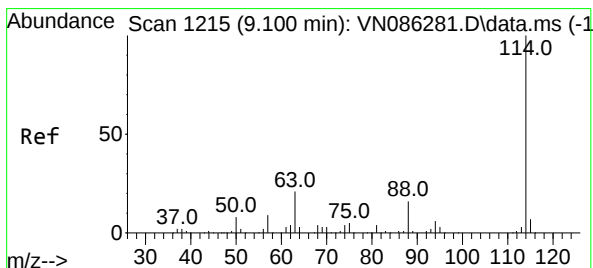
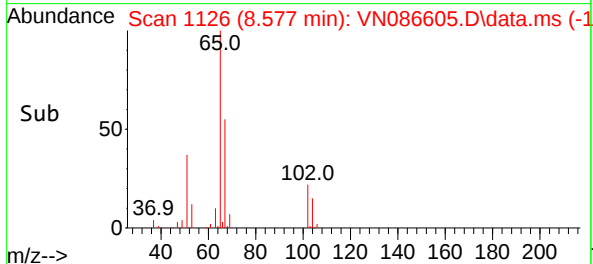
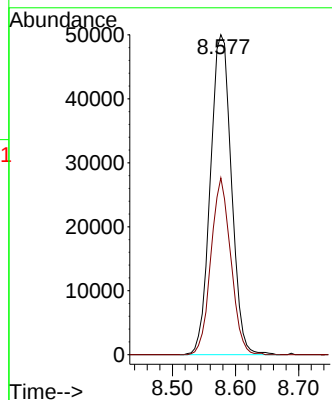
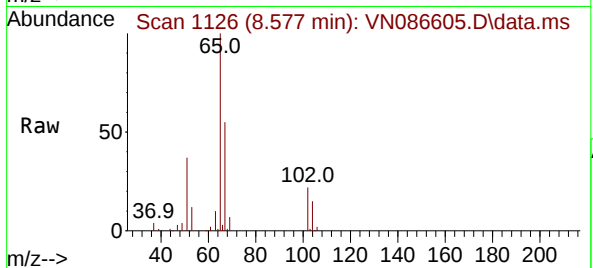
PB167964ZHE#03

Tgt Ion: 65 Resp: 115742

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: VN086605.D

Acq: 13 May 2025 16:36

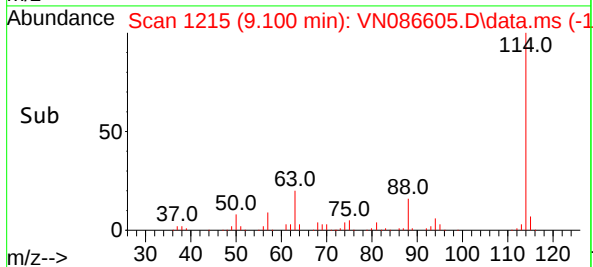
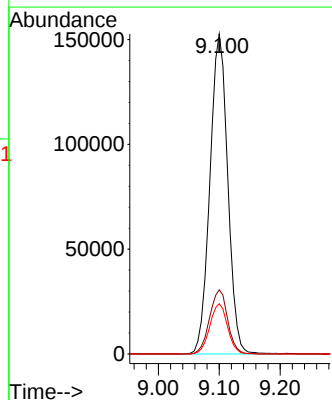
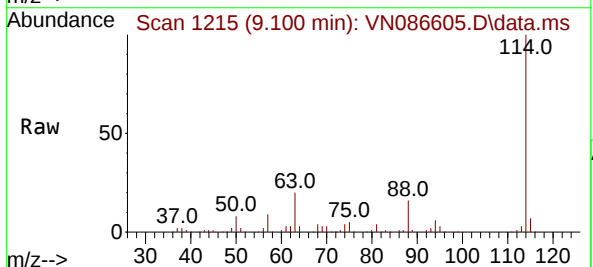
Tgt Ion: 114 Resp: 310136

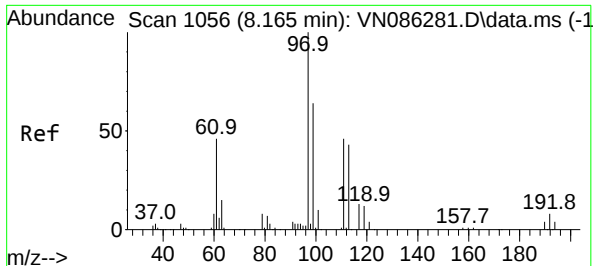
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.7 0.0 31.8





#35

Dibromofluoromethane

Concen: 64.513 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#03

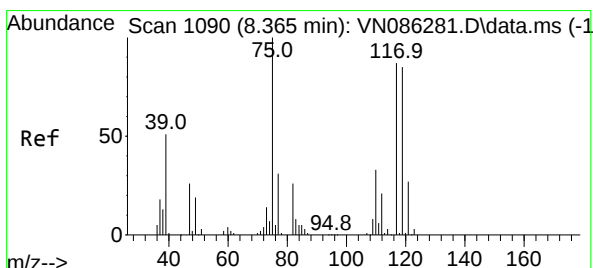
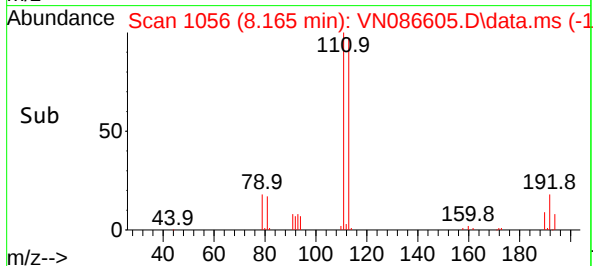
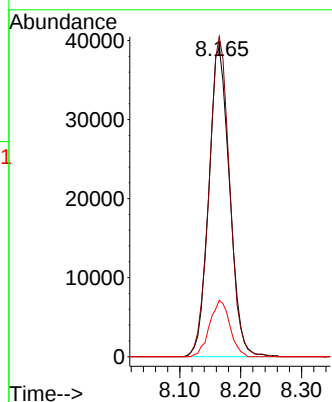
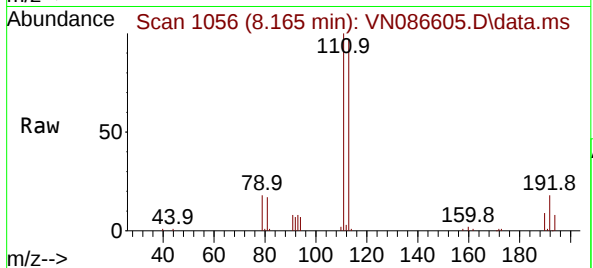
Tgt Ion:113 Resp: 92859

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.0

192 17.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

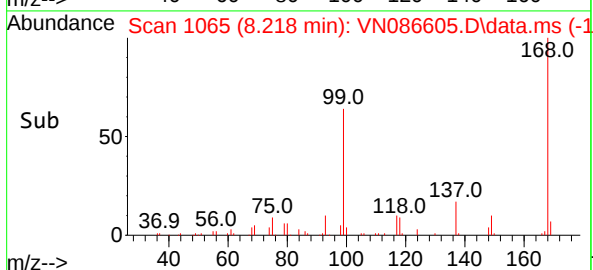
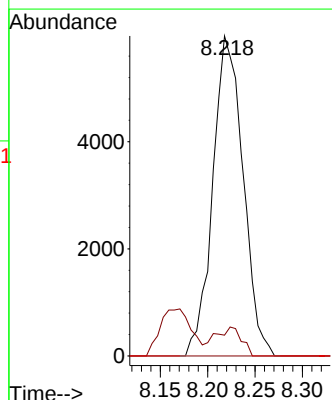
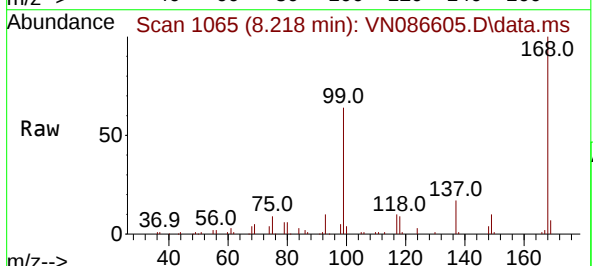
Tgt Ion: 75 Resp: 13278

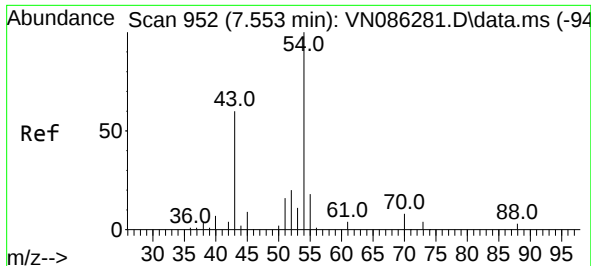
Ion Ratio Lower Upper

75 100

110 8.1 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.271 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#03

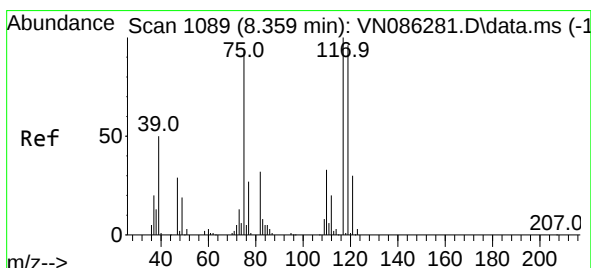
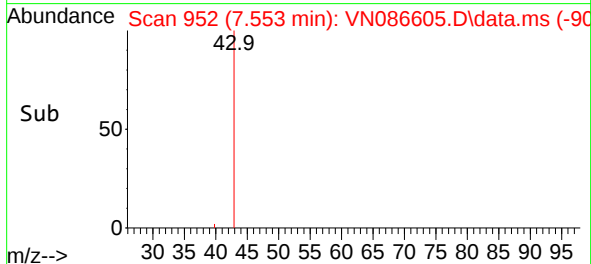
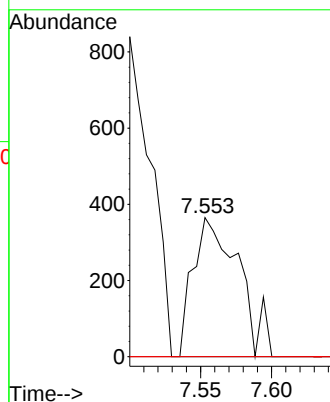
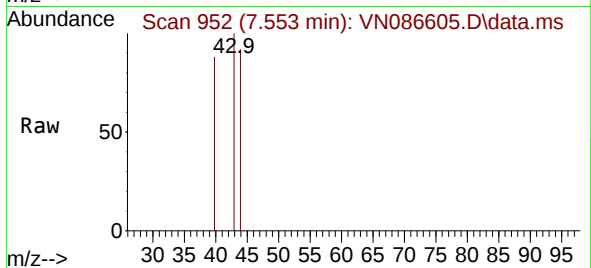
Tgt Ion: 43 Resp: 819

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 5.994 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

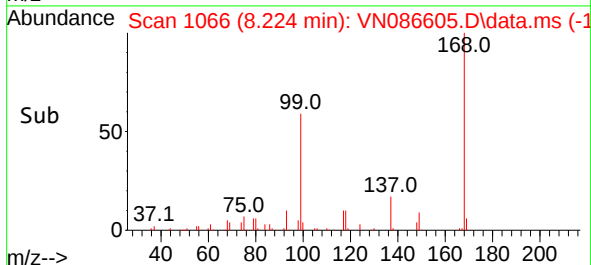
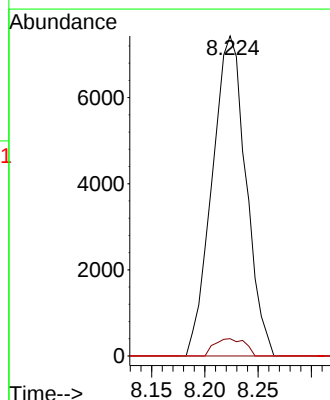
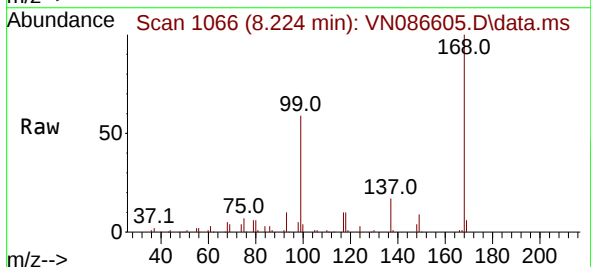
Tgt Ion: 117 Resp: 16410

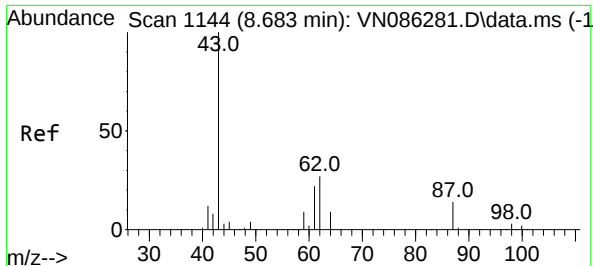
Ion Ratio Lower Upper

117 100

119 5.4 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 7.648 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.001 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#03

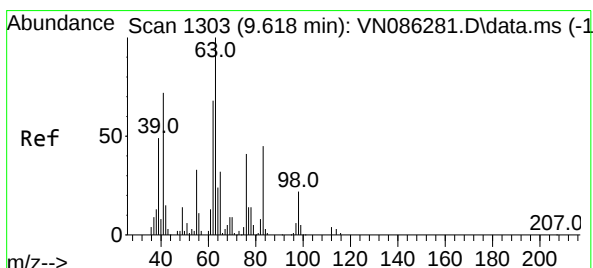
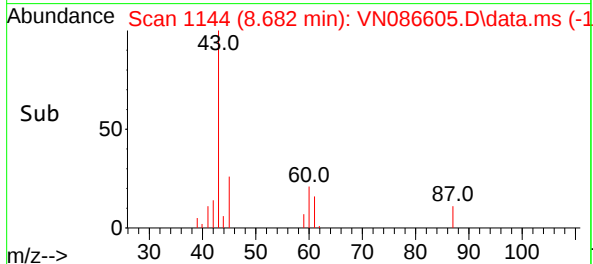
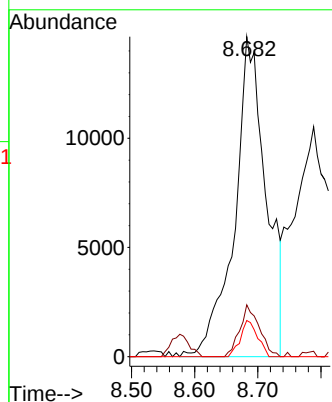
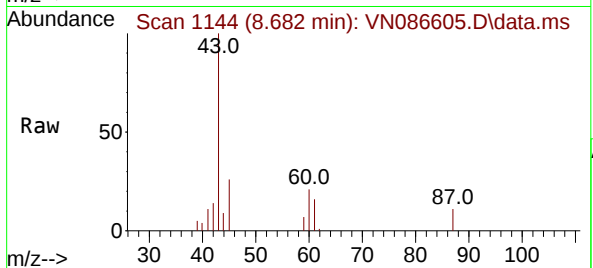
Tgt Ion: 43 Resp: 50913

Ion Ratio Lower Upper

43 100

61 10.0 20.5 30.7#

87 6.1 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.490 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.112 min

Lab File: VN086605.D

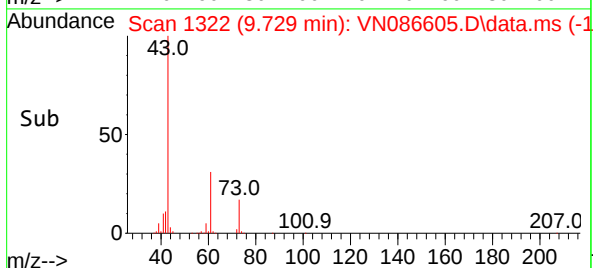
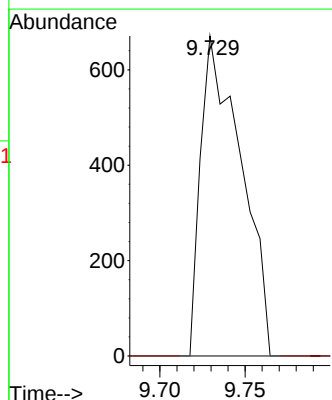
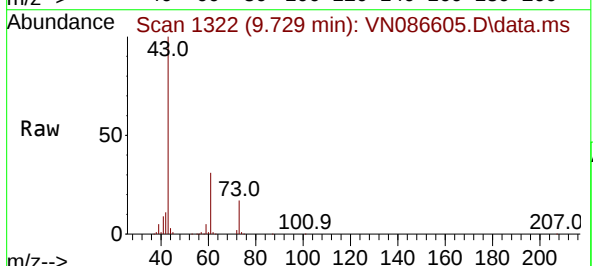
Acq: 13 May 2025 16:36

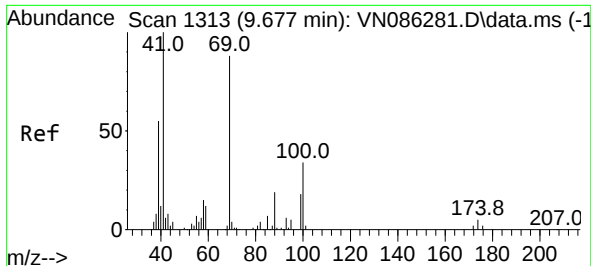
Tgt Ion: 63 Resp: 1105

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

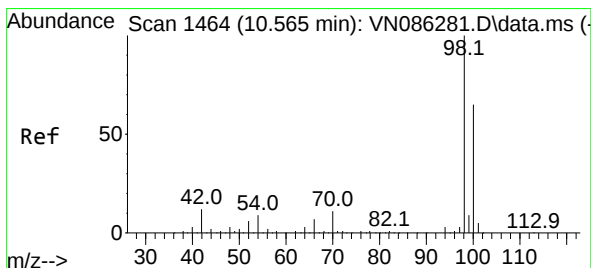
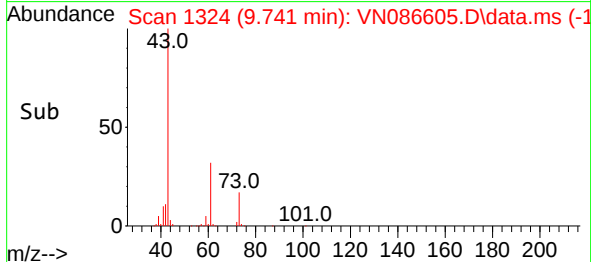
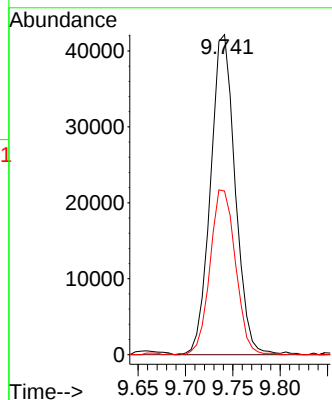
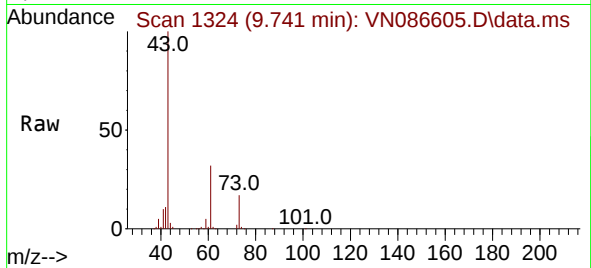




#48
Methyl methacrylate
Concen: 28.664 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

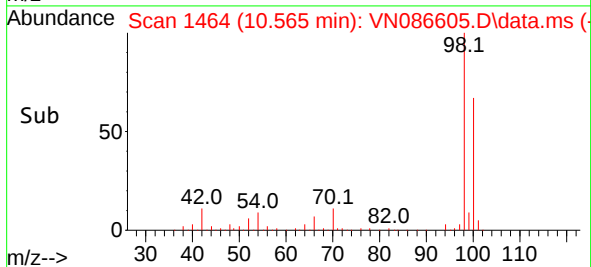
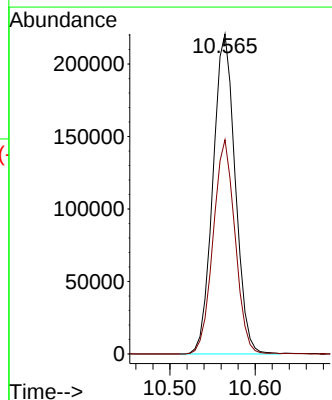
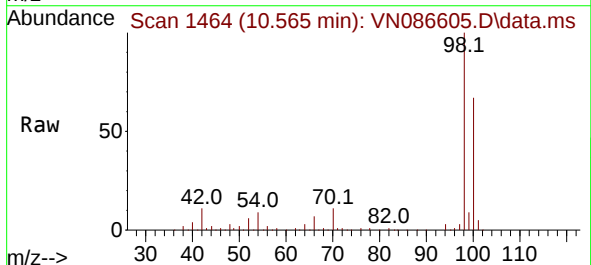
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

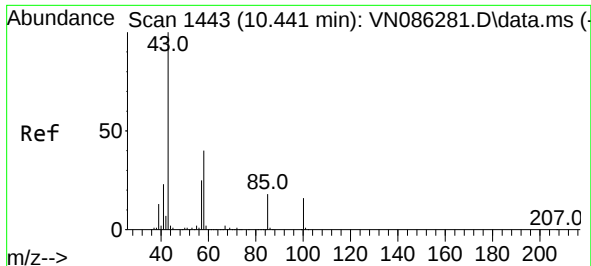
Tgt Ion: 41 Resp: 76188
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.3 45.2 67.8



#50
Toluene-d8
Concen: 52.154 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion: 98 Resp: 401210
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7

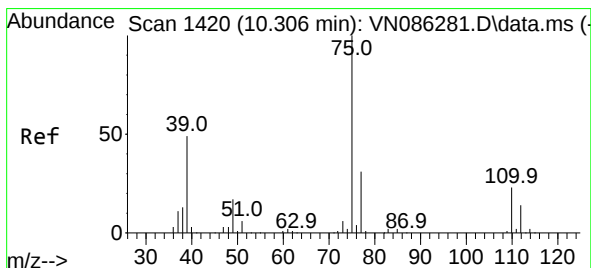
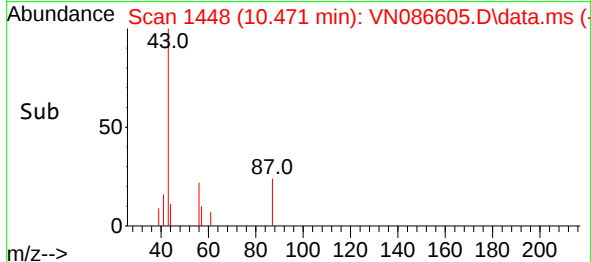
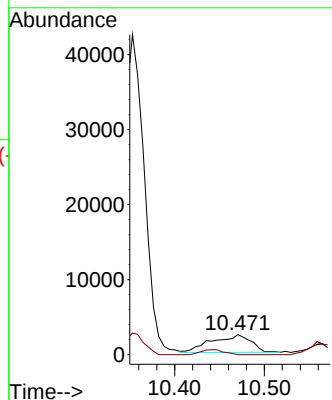
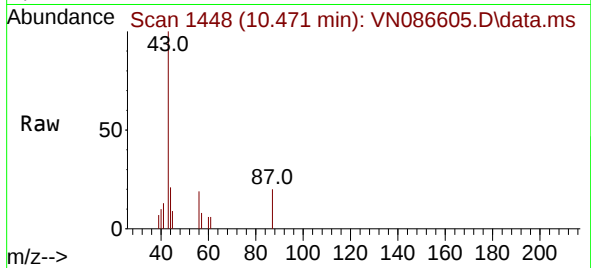




#51
4-Methyl-2-Pentanone
Concen: 2.316 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

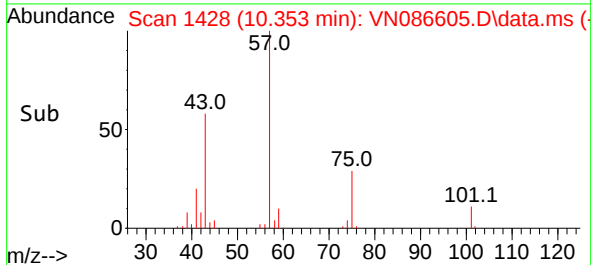
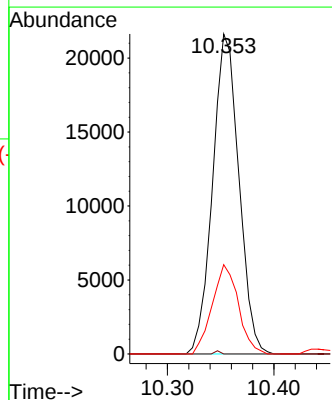
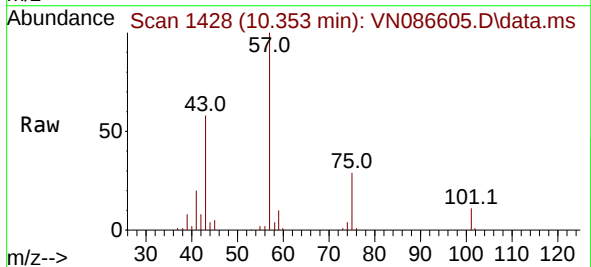
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

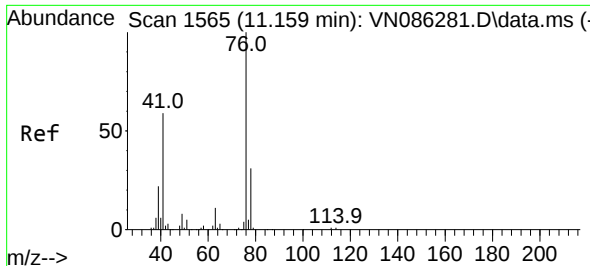
Tgt Ion: 43 Resp: 7179
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion: 75 Resp: 37016
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 27.9 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.988 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086605.D

Acq: 13 May 2025 16:36

Instrument :

MSVOA_N

ClientSampleId :

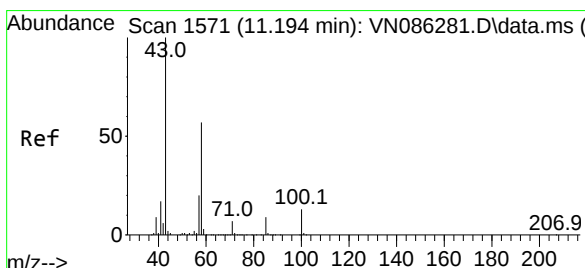
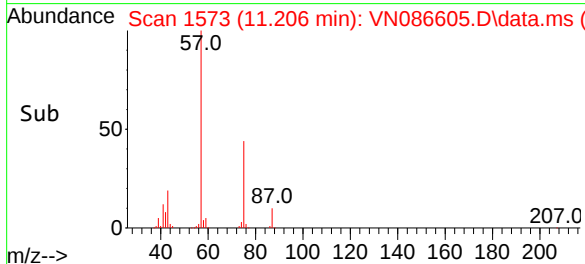
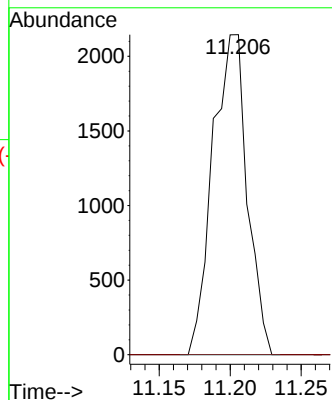
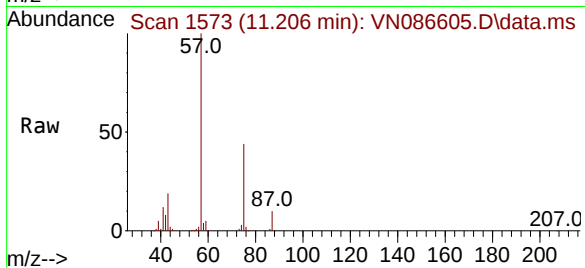
PB167964ZHE#03

Tgt Ion: 76 Resp: 3624

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 26.184 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086605.D

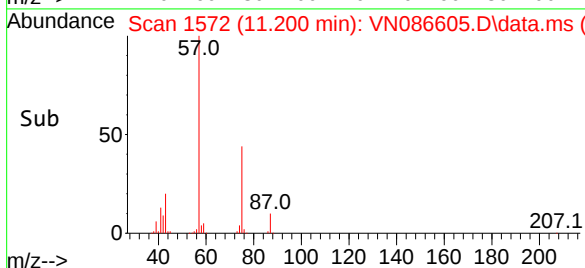
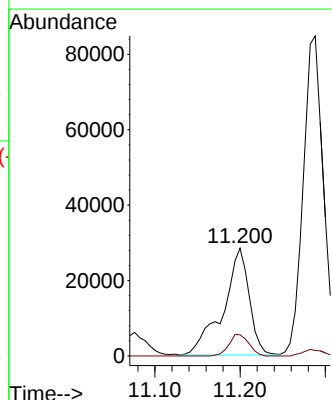
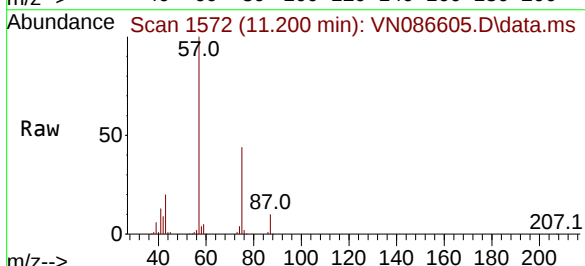
Acq: 13 May 2025 16:36

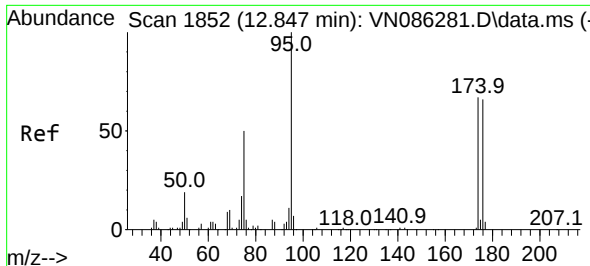
Tgt Ion: 43 Resp: 60195

Ion Ratio Lower Upper

43 100

58 15.5 28.3 85.0#

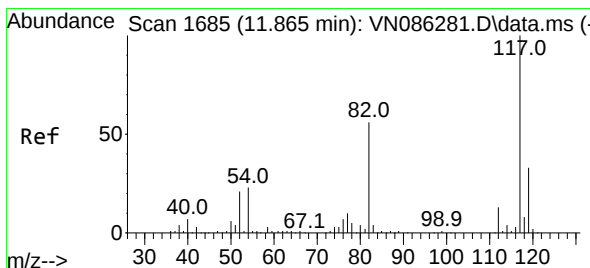
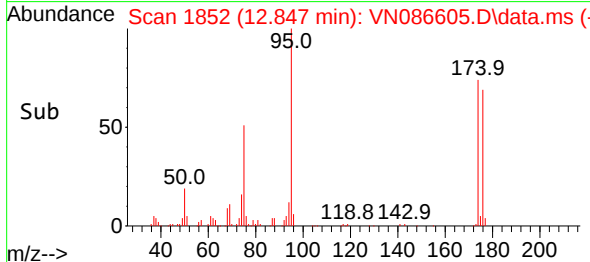
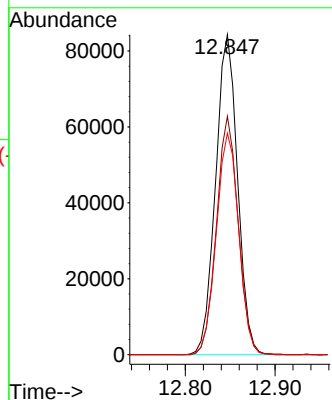
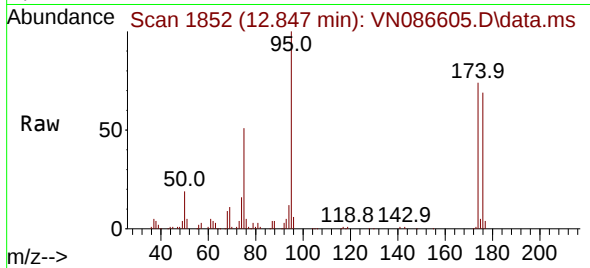




#62
4-Bromofluorobenzene
Concen: 51.064 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

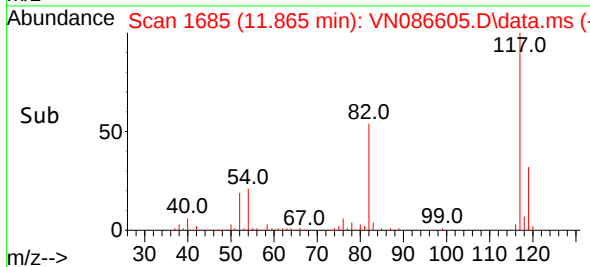
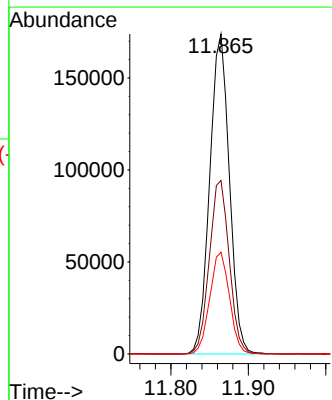
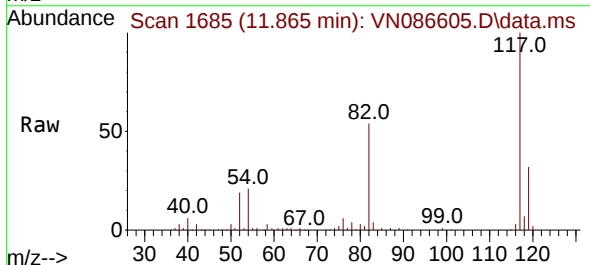
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#03

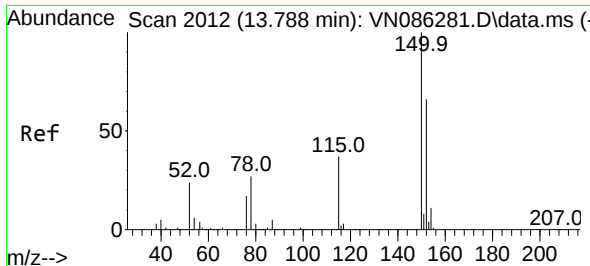
Tgt Ion: 95 Resp: 143278
Ion Ratio Lower Upper
95 100
174 73.6 0.0 133.4
176 70.7 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086605.D
Acq: 13 May 2025 16:36

Tgt Ion: 117 Resp: 306509
Ion Ratio Lower Upper
117 100
82 54.2 44.7 67.1
119 31.8 26.4 39.6

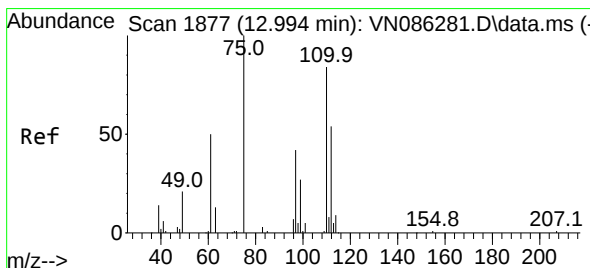
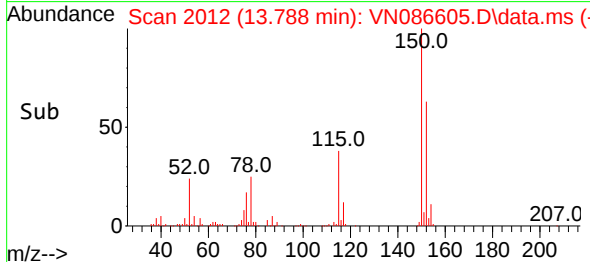
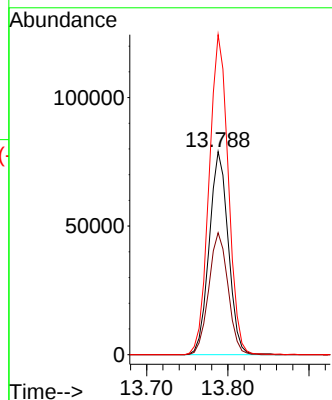
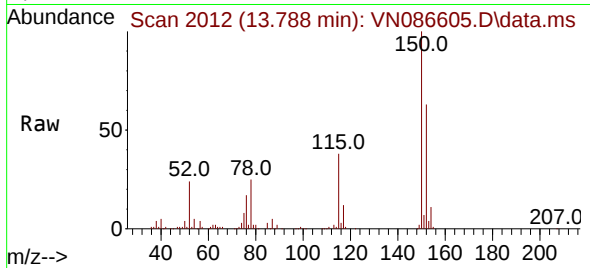




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086605.D
 Acq: 13 May 2025 16:36

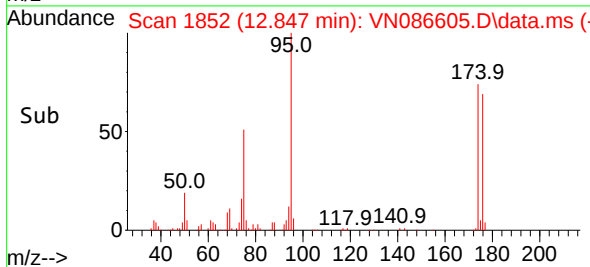
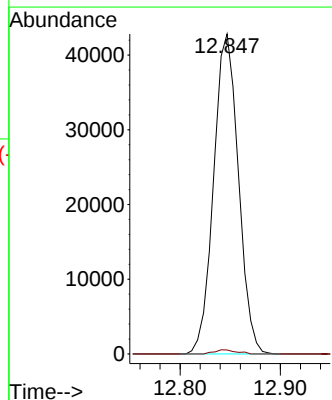
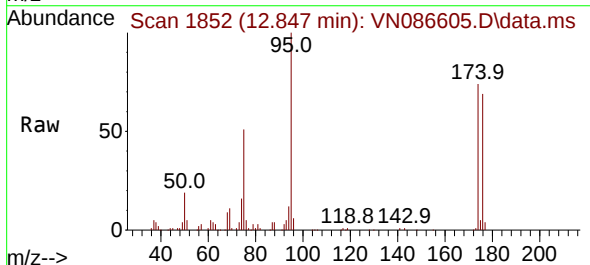
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#03

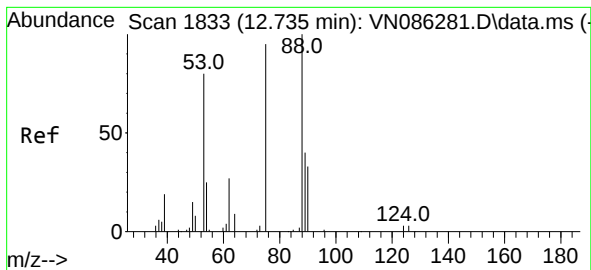
Tgt Ion:152 Resp: 128783
 Ion Ratio Lower Upper
 152 100
 115 60.4 31.9 95.9
 150 158.7 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.127 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086605.D
 Acq: 13 May 2025 16:36

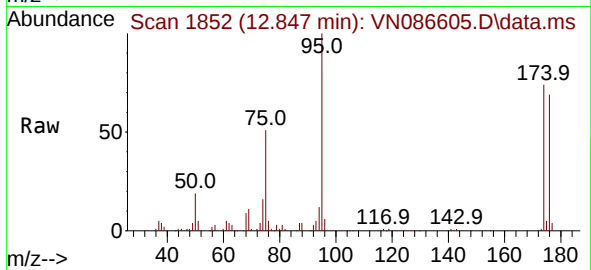
Tgt Ion: 75 Resp: 73324
 Ion Ratio Lower Upper
 75 100
 77 1.2 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.944 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086605.D
 Acq: 13 May 2025 16:36

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#03



Tgt Ion: 75 Resp: 73324
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

