

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086598.D
 Acq On : 13 May 2025 13:46
 Operator : JC\MD
 Sample : PB167932ZHE#17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#17

Quant Time: May 14 01:43:36 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)

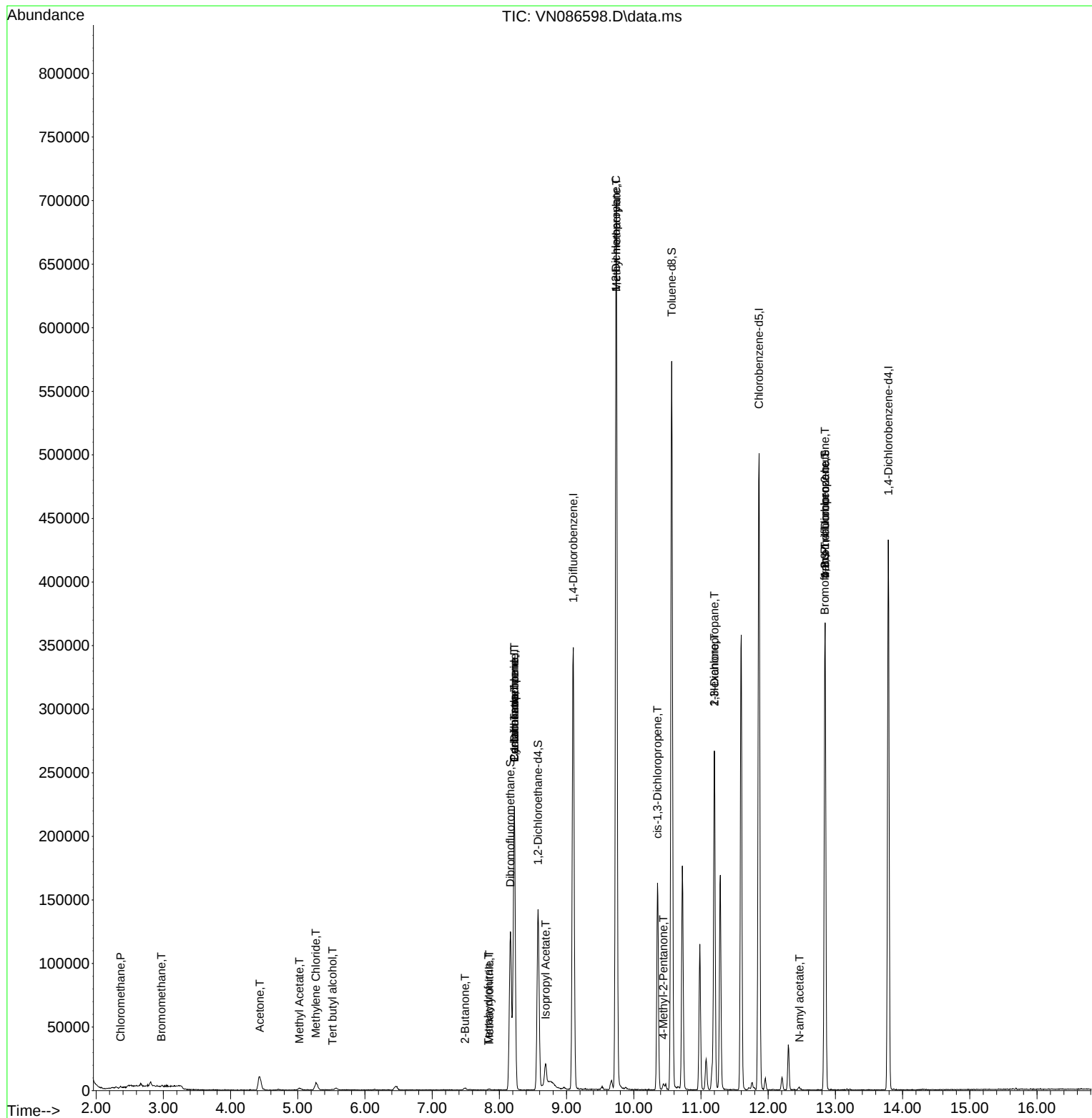
Internal Standards						
1) Pentafluorobenzene	8.224	168	162419	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312925	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119052	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	117539	49.906	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.820%		
35) Dibromofluoromethane	8.165	113	92047	63.379	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	126.760%#		
50) Toluene-d8	10.565	98	398681	51.364	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.720%		
62) 4-Bromofluorobenzene	12.847	95	134424	47.481	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.960%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	842	0.301	ug/l	93
5) Bromomethane	2.971	94	370	0.308	ug/l	84
11) Tert butyl alcohol	5.518	59	312	0.726	ug/l #	72
16) Acetone	4.436	43	22565	22.518	ug/l	93
18) Methyl Acetate	5.024	43	3143	1.112	ug/l #	80
20) Methylene Chloride	5.271	84	4464	2.050	ug/l	95
25) 2-Butanone	7.488	43	3269	2.230	ug/l #	79
29) Tetrahydrofuran	7.835	42	800	0.816	ug/l #	32
31) Cyclohexane	8.224	56	3710	0.972	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13065	4.504	ug/l #	50
38) Carbon Tetrachloride	8.224	117	16455	5.957	ug/l #	16
41) Methacrylonitrile	7.853	41	363	0.205	ug/l #	23
43) Isopropyl Acetate	8.688	43	28412	3.382	ug/l #	82
45) 1,2-Dichloropropane	9.735	63	754	0.331	ug/l #	43
48) Methyl methacrylate	9.741	41	63530	23.689	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4284	1.370	ug/l #	76
54) cis-1,3-Dichloropropene	10.353	75	29999	7.815	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2897	0.783	ug/l #	43
59) 2-Hexanone	11.200	43	51038	22.003	ug/l #	43
71) Bromoform	12.841	173	522	0.320	ug/l #	1
74) N-amyl acetate	12.465	43	2351	0.485	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	68554	24.401	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68554	58.603	ug/l #	10

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

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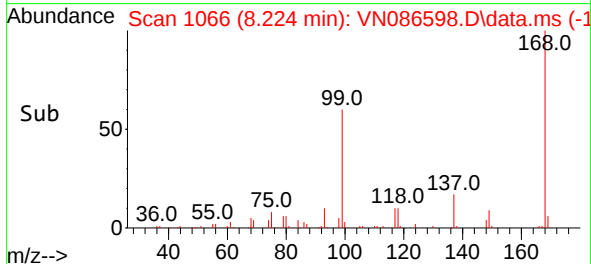
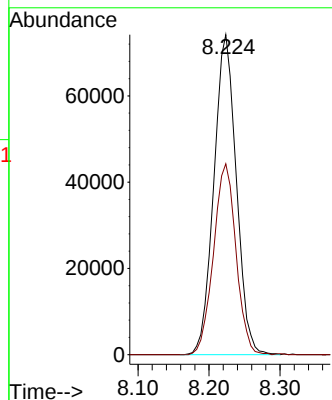
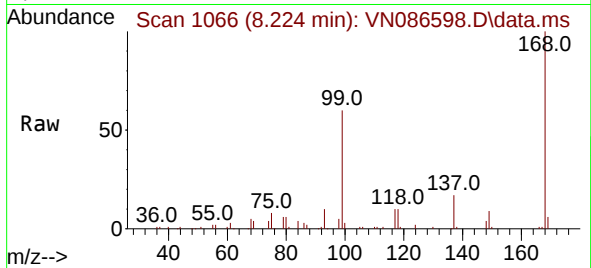




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

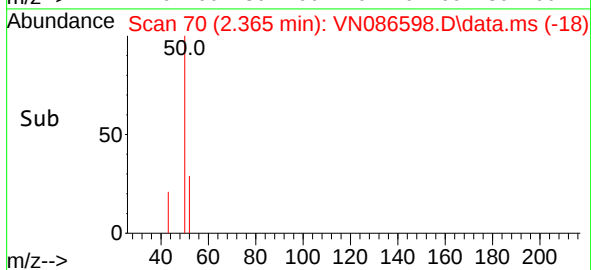
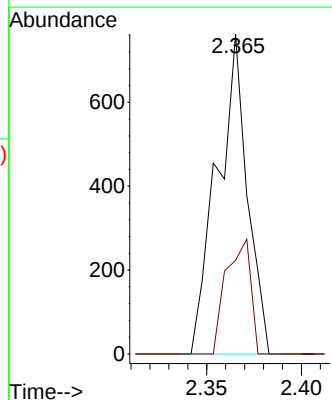
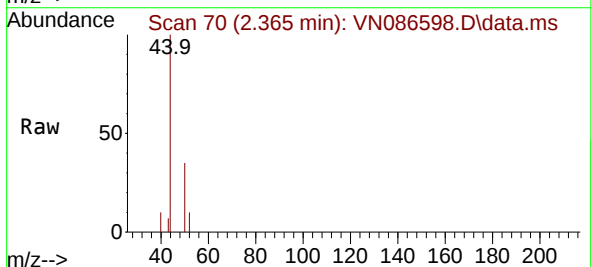
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

Tgt Ion:168 Resp: 162419
Ion Ratio Lower Upper
168 100
99 59.6 52.5 78.7



#3
Chloromethane
Concen: 0.301 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

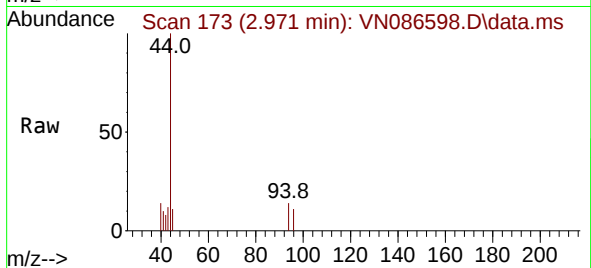
Tgt Ion: 50 Resp: 842
Ion Ratio Lower Upper
50 100
52 29.2 26.5 39.7



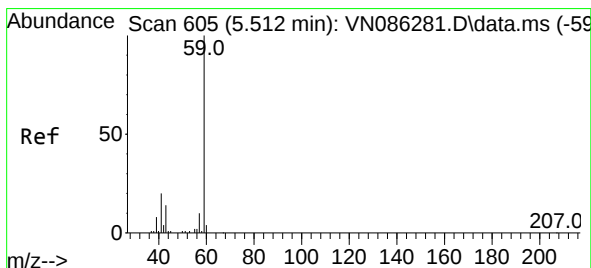
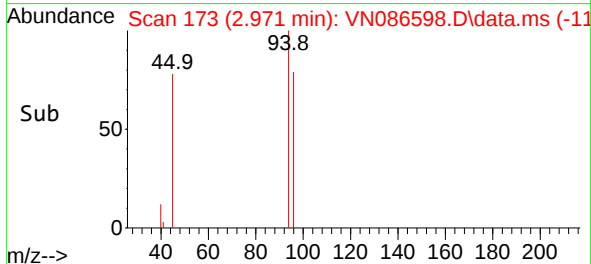
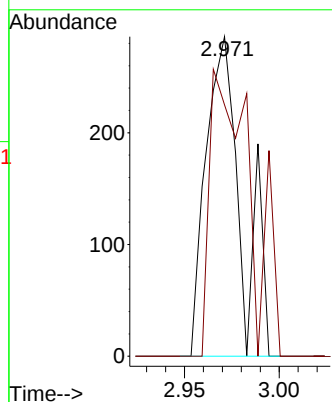


#5
Bromomethane
Concen: 0.308 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

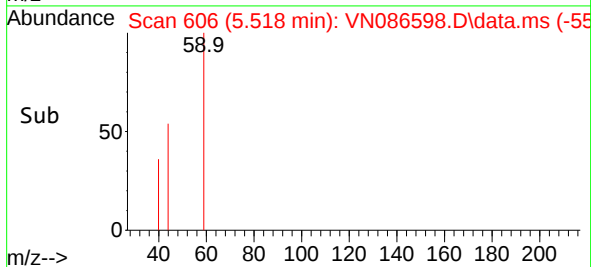
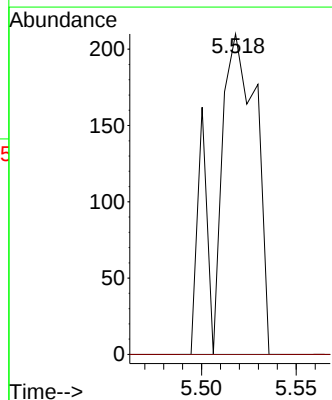
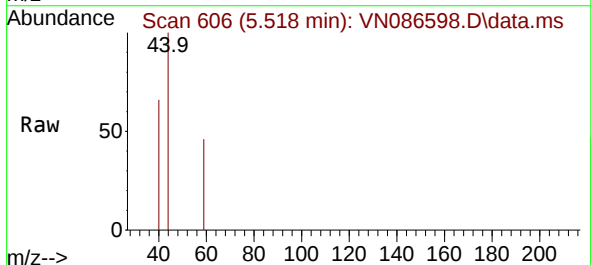


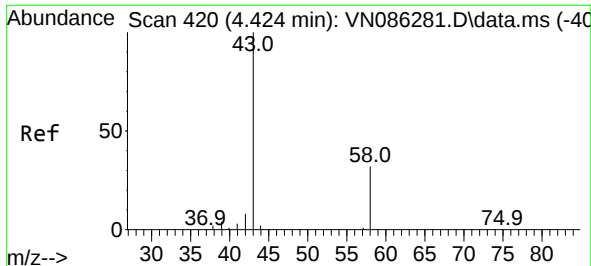
Tgt Ion: 94 Resp: 370
Ion Ratio Lower Upper
94 100
96 78.7 75.2 112.8



#11
Tert butyl alcohol
Concen: 0.726 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion: 59 Resp: 312
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

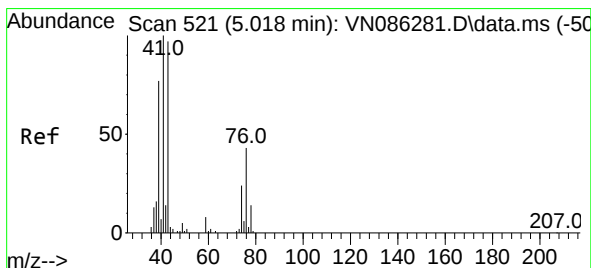
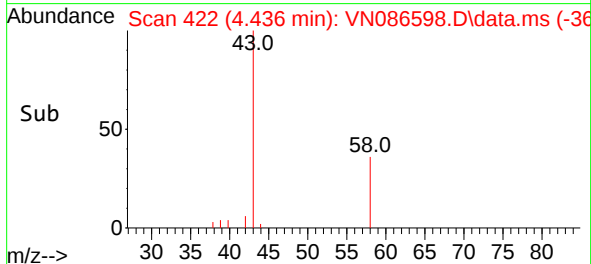
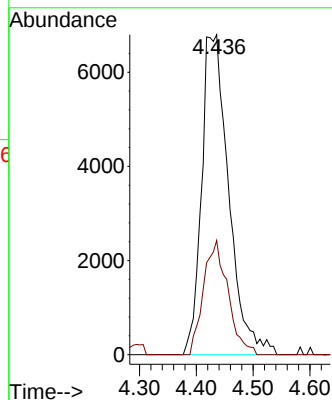
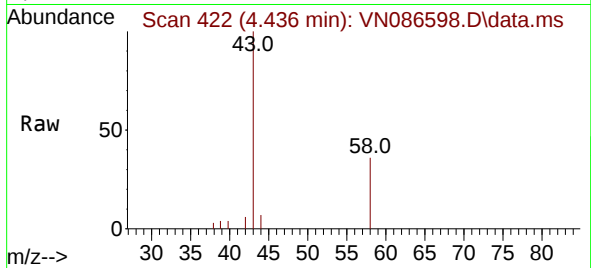




#16
Acetone
Concen: 22.518 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

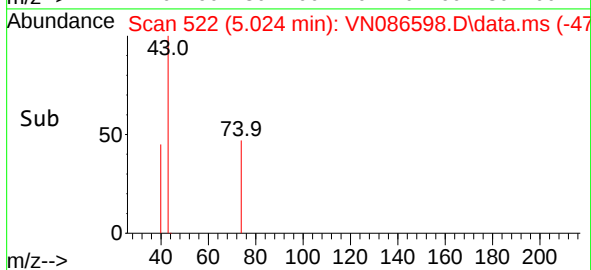
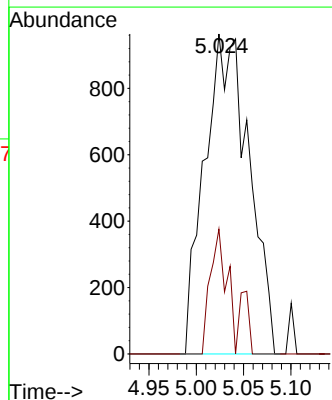
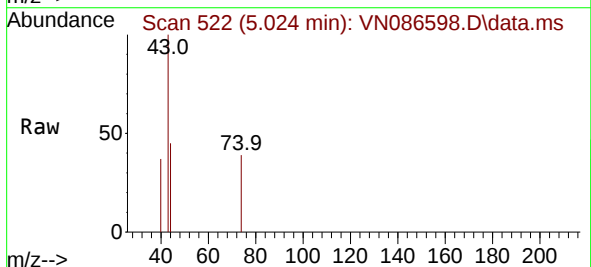
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

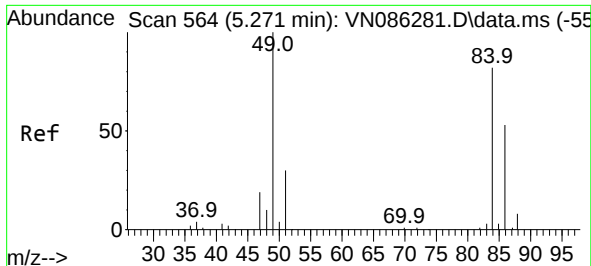
Tgt Ion: 43 Resp: 22565
Ion Ratio Lower Upper
43 100
58 35.7 25.3 37.9



#18
Methyl Acetate
Concen: 1.112 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

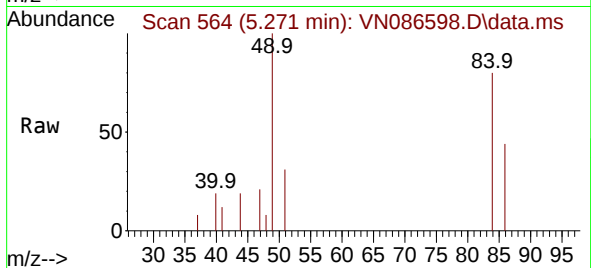
Tgt Ion: 43 Resp: 3143
Ion Ratio Lower Upper
43 100
74 14.7 19.8 29.6#



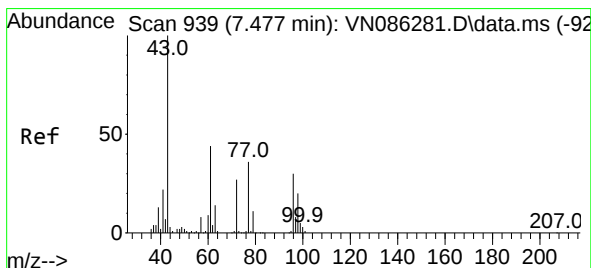
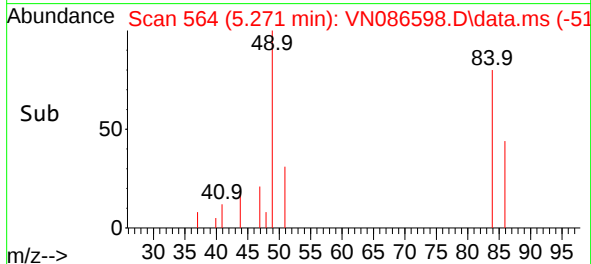
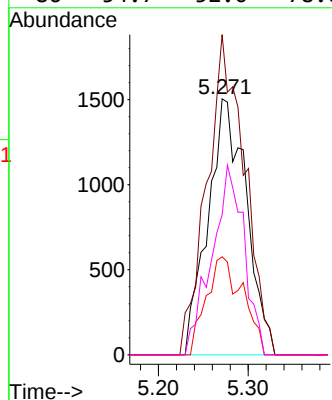


#20
Methylene Chloride
Concen: 2.050 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

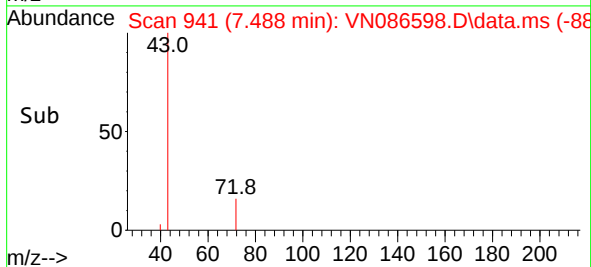
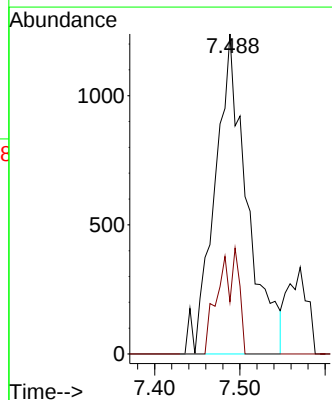
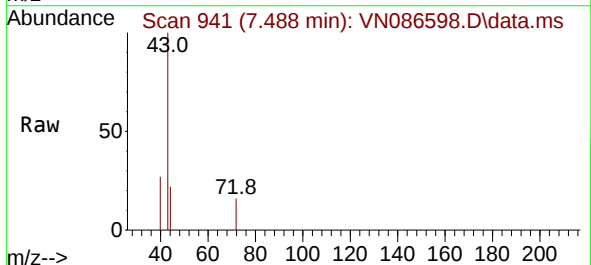


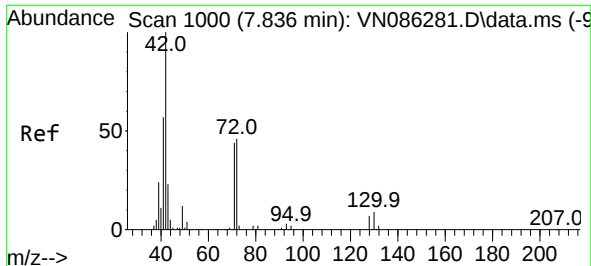
Tgt Ion:	84	Resp:	4464
Ion	Ratio	Lower	Upper
84	100		
49	125.0	98.2	147.2
51	38.3	29.8	44.6
86	54.7	52.0	78.0



#25
2-Butanone
Concen: 2.230 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion:	43	Resp:	3269
Ion	Ratio	Lower	Upper
43	100		
72	16.3	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.816 ug/l

RT: 7.835 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN086598.D

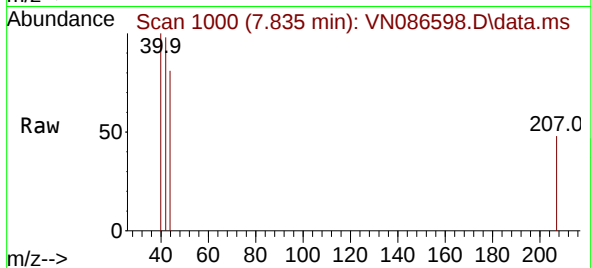
Acq: 13 May 2025 13:46

Instrument :

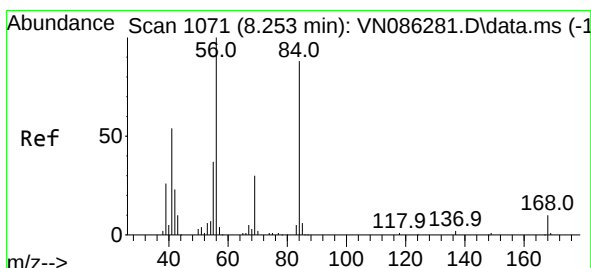
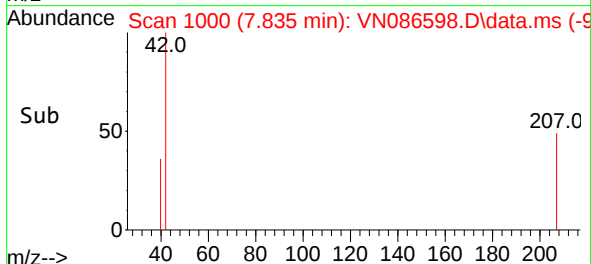
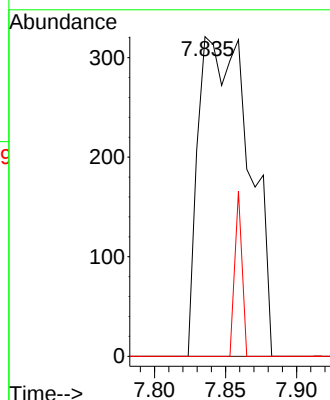
MSVOA_N

ClientSampleId :

PB167932ZHE#17



Tgt Ion:	42	Resp:	800
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.972 ug/l

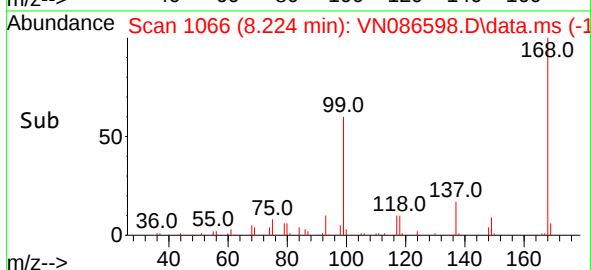
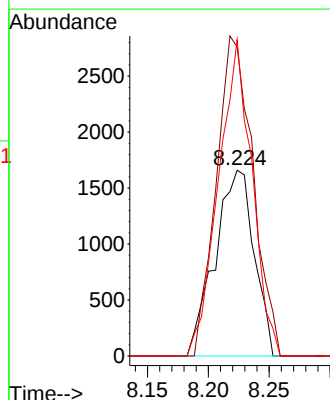
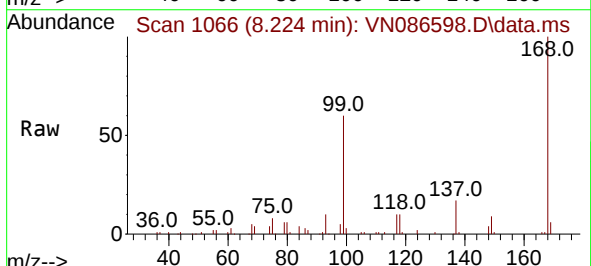
RT: 8.224 min Scan# 1066

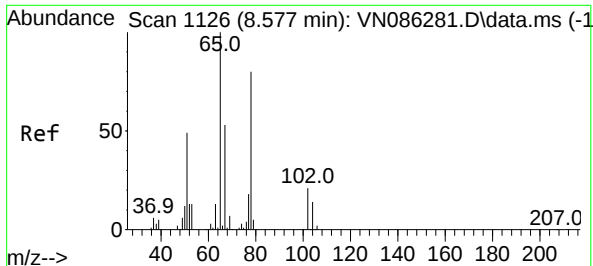
Delta R.T. -0.029 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Tgt Ion:	56	Resp:	3710
Ion Ratio	Lower	Upper	
56	100		
69	166.4	24.2	36.2#
84	170.3	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.906 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

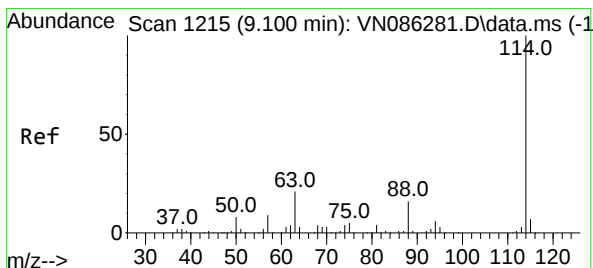
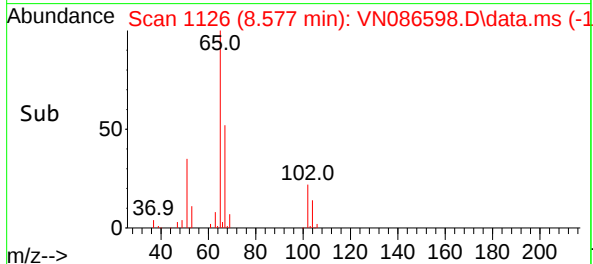
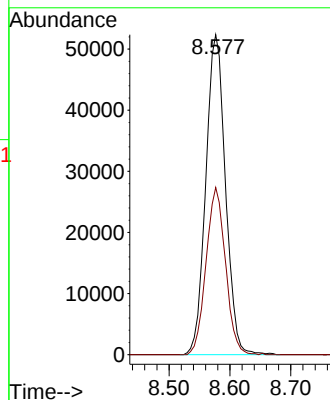
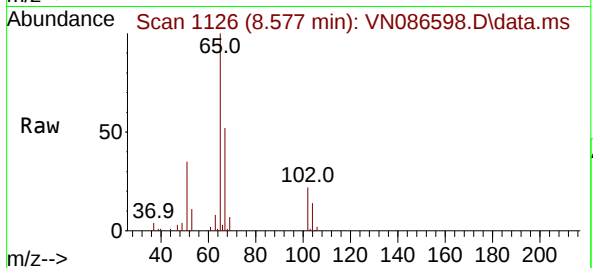
PB167932ZHE#17

Tgt Ion: 65 Resp: 117539

Ion Ratio Lower Upper

65 100

67 51.5 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: VN086598.D

Acq: 13 May 2025 13:46

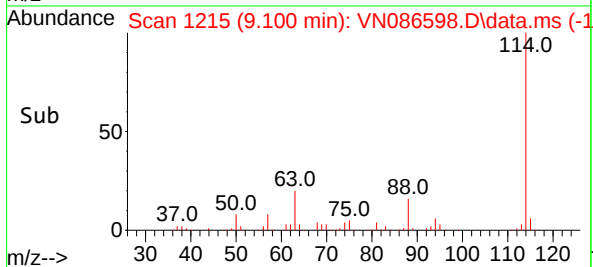
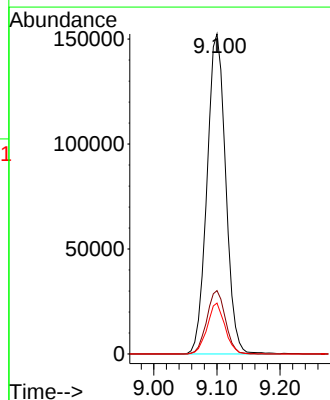
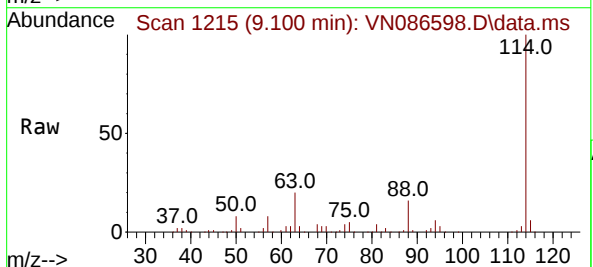
Tgt Ion: 114 Resp: 312925

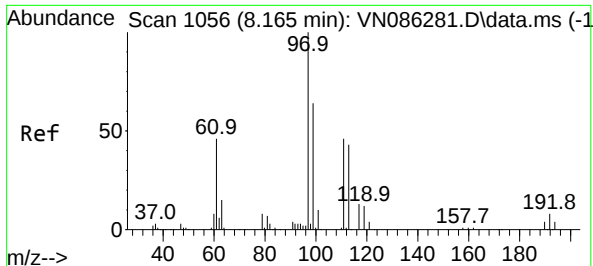
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.379 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#17

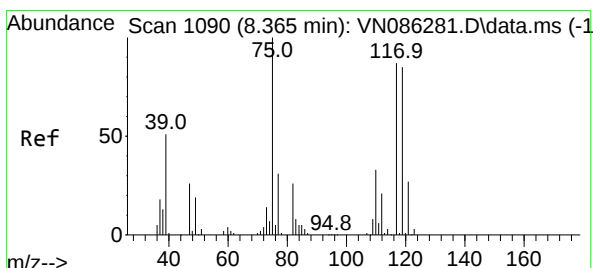
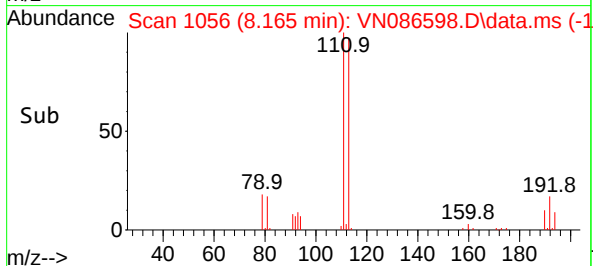
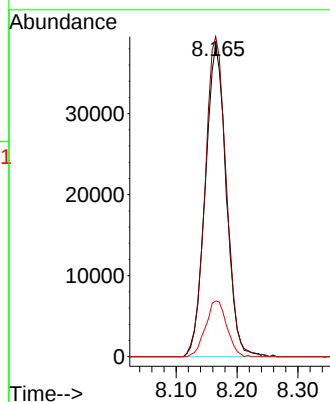
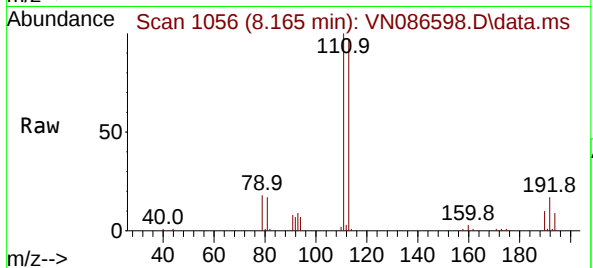
Tgt Ion:113 Resp: 92047

Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.0

192 18.1 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.504 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

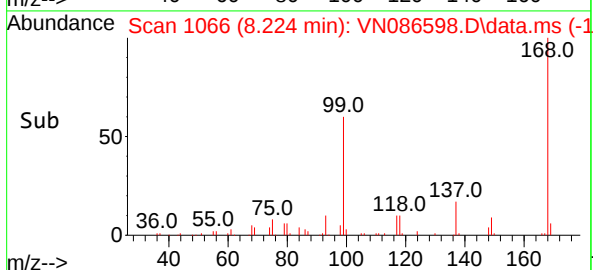
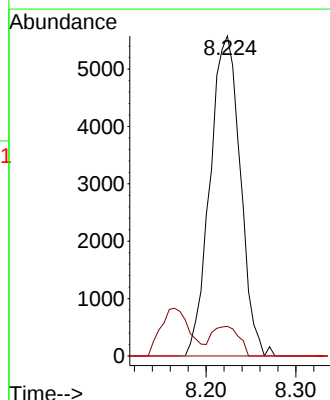
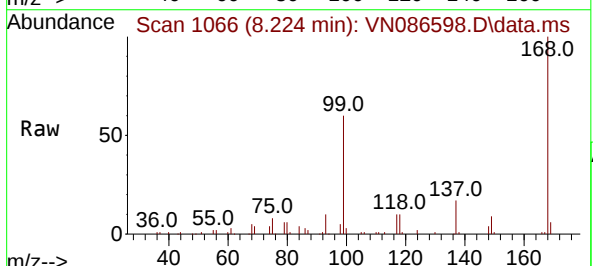
Tgt Ion: 75 Resp: 13065

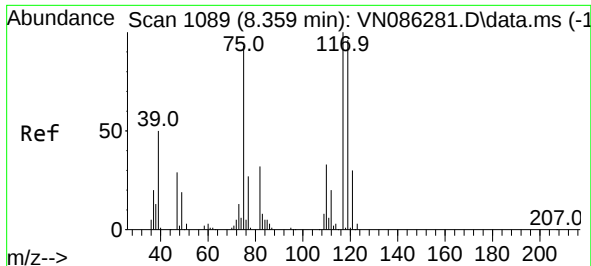
Ion Ratio Lower Upper

75 100

110 8.1 16.8 50.4#

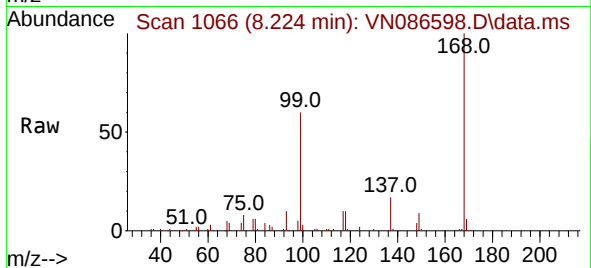
77 0.0 24.9 37.3#



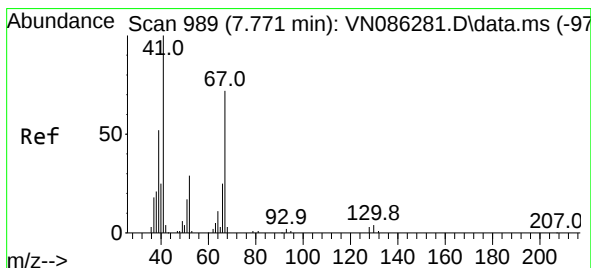
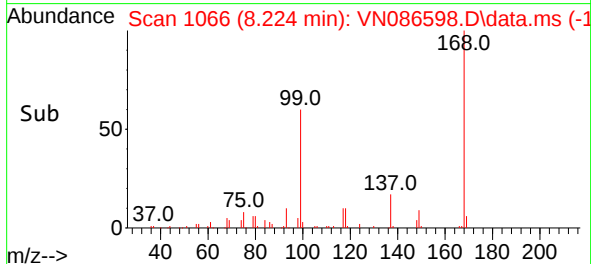
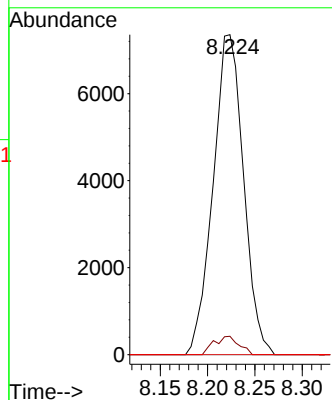


#38
Carbon Tetrachloride
Concen: 5.957 ug/l
RT: 8.224 min Scan# 1000
Delta R.T. -0.135 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

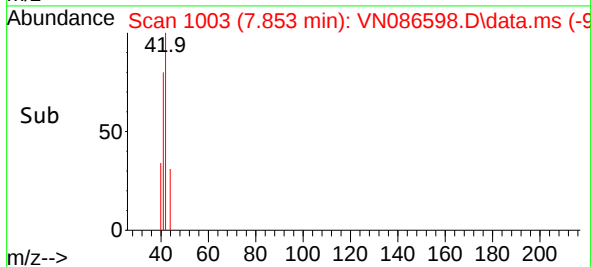
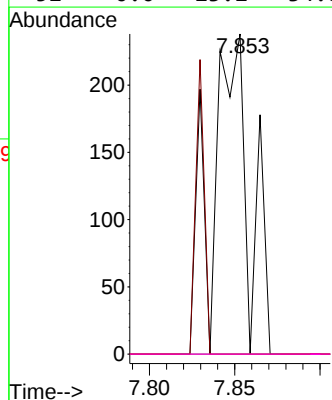
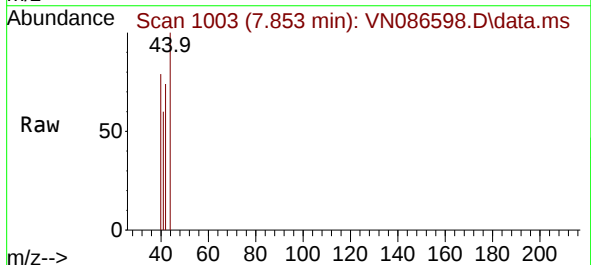


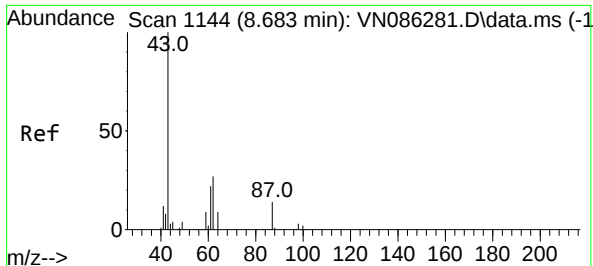
Tgt Ion:117 Resp: 16455
Ion Ratio Lower Upper
117 100
119 5.8 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.082 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion: 41 Resp: 363
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#





#43

Isopropyl Acetate

Concen: 3.382 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.005 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#17

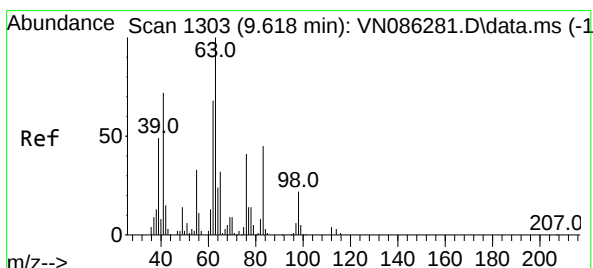
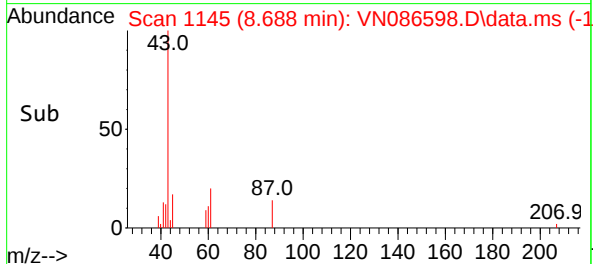
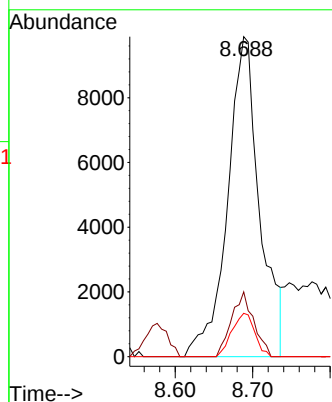
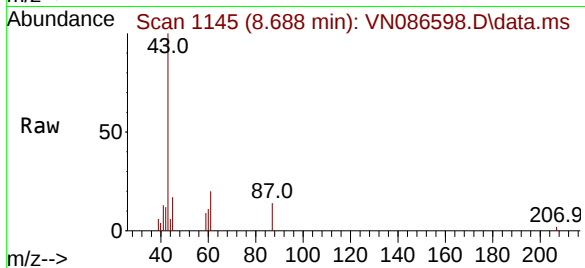
Tgt Ion: 43 Resp: 28412

Ion Ratio Lower Upper

43 100

61 14.1 20.5 30.7#

87 9.6 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.331 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086598.D

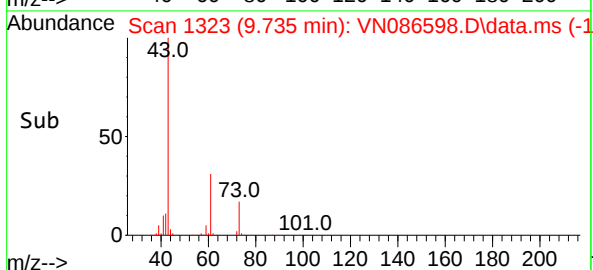
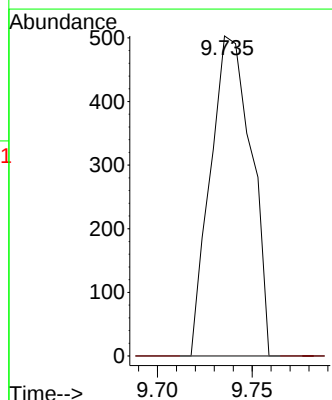
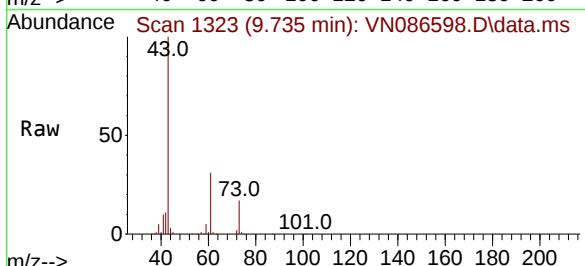
Acq: 13 May 2025 13:46

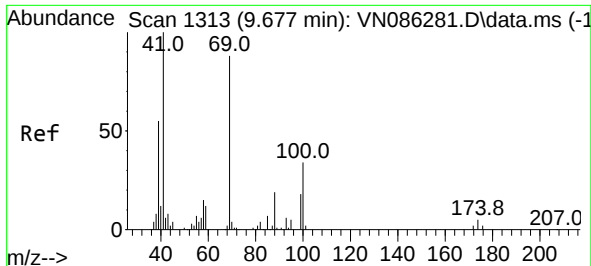
Tgt Ion: 63 Resp: 754

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#

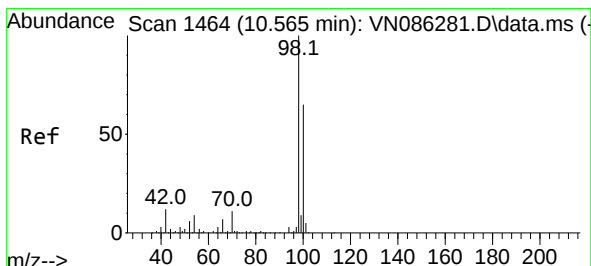
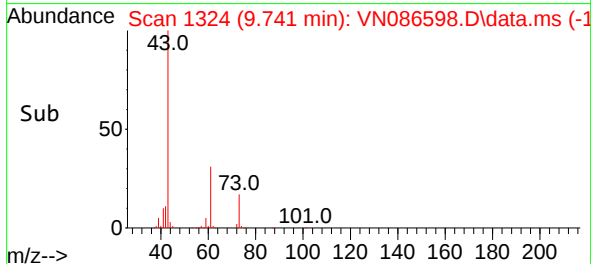
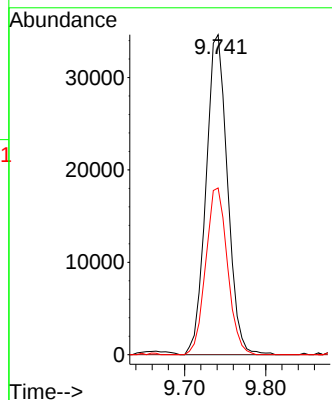
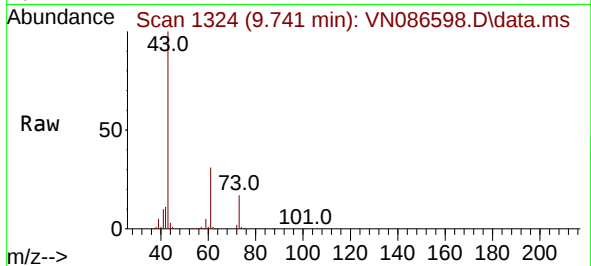




#48
Methyl methacrylate
Concen: 23.689 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

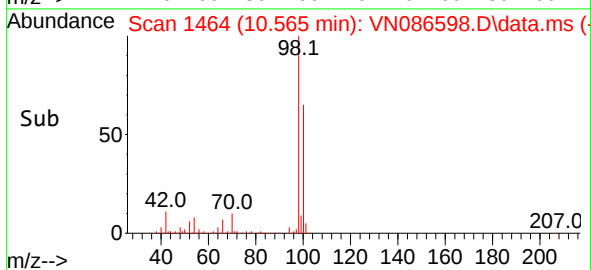
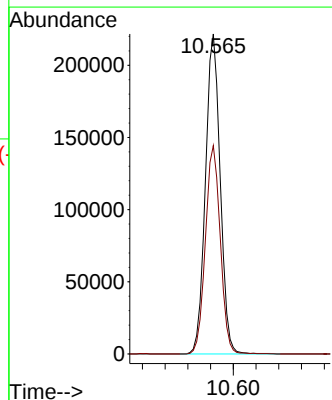
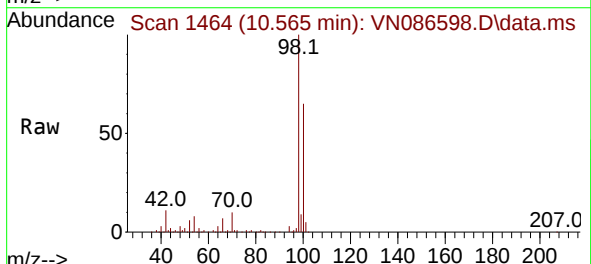
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

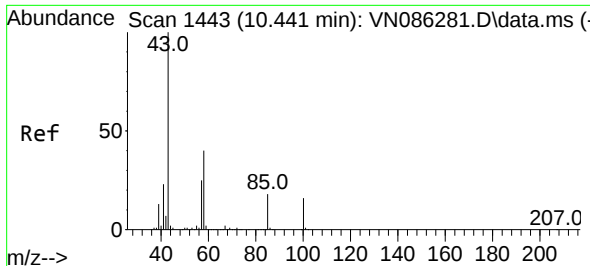
Tgt Ion: 41 Resp: 63530
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 52.8 45.2 67.8



#50
Toluene-d8
Concen: 51.364 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion: 98 Resp: 398681
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7

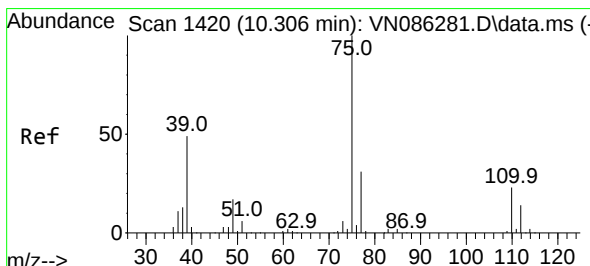
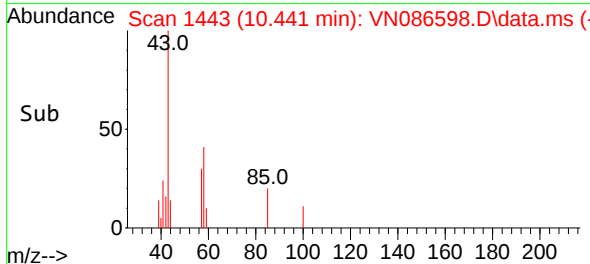
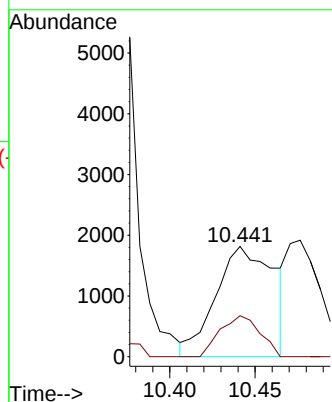
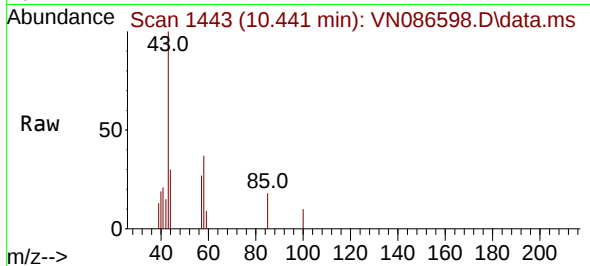




#51
4-Methyl-2-Pentanone
Concen: 1.370 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

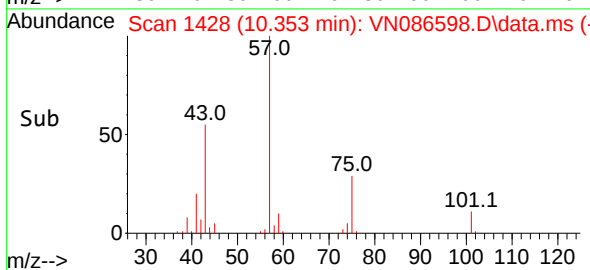
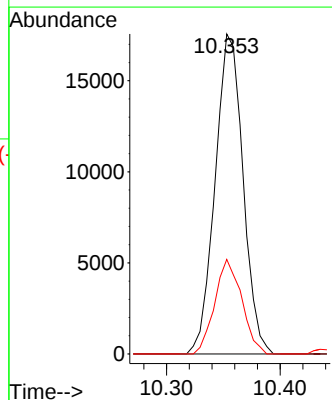
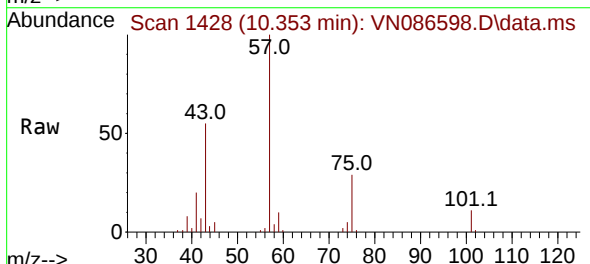
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

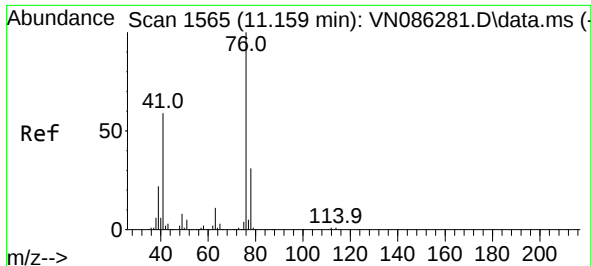
Tgt Ion: 43 Resp: 4284
Ion Ratio Lower Upper
43 100
58 25.6 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 7.815 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion: 75 Resp: 29999
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 29.5 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.783 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Instrument :

MSVOA_N

ClientSampleId :

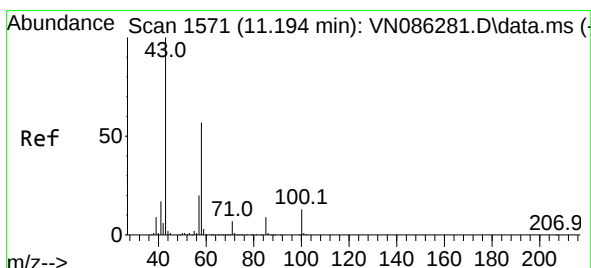
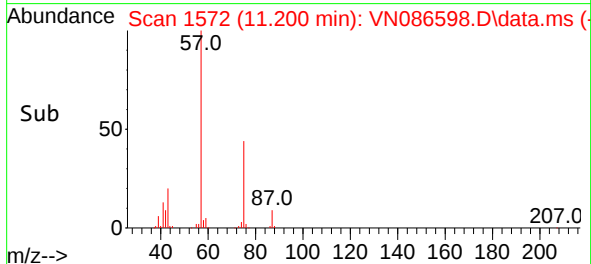
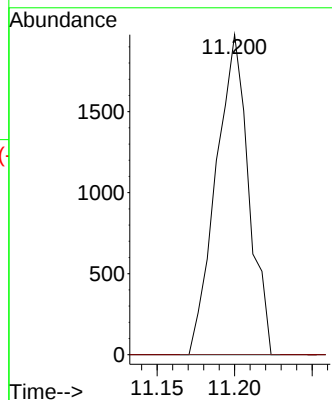
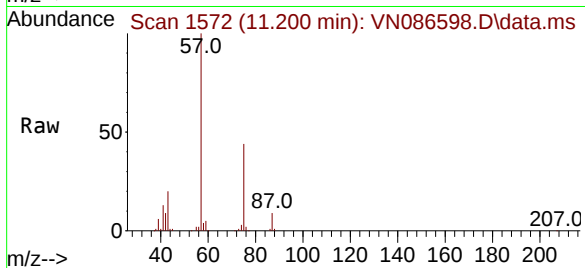
PB167932ZHE#17

Tgt Ion: 76 Resp: 2897

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.003 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086598.D

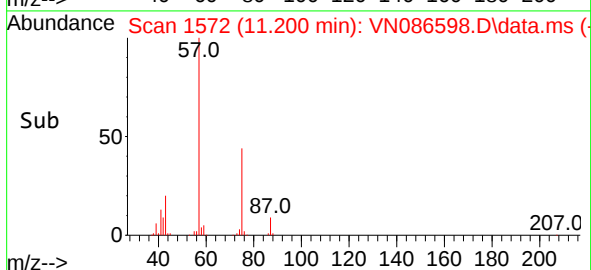
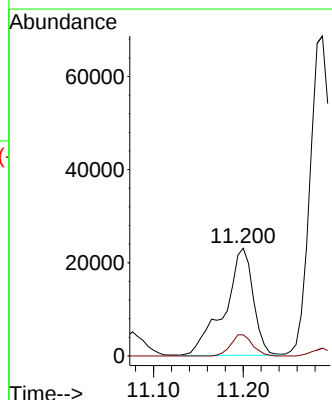
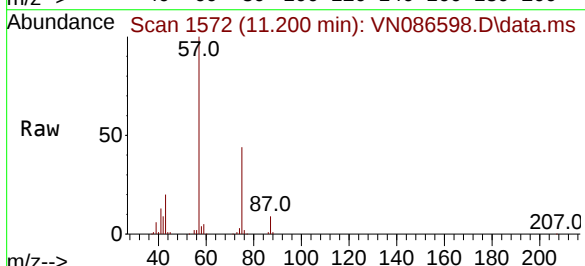
Acq: 13 May 2025 13:46

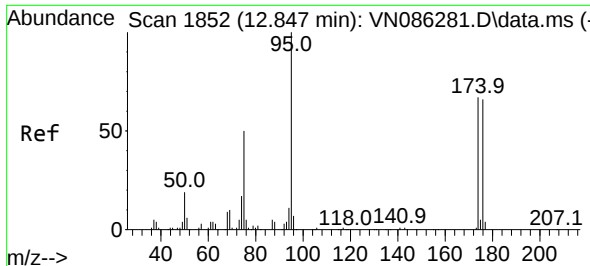
Tgt Ion: 43 Resp: 51038

Ion Ratio Lower Upper

43 100

58 15.1 28.3 85.0#

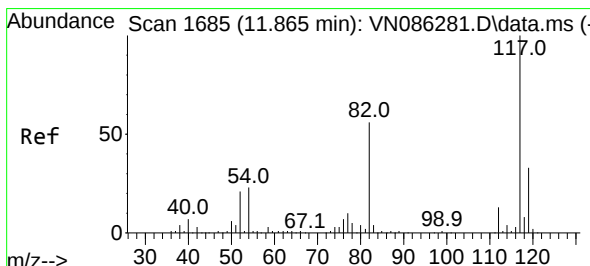
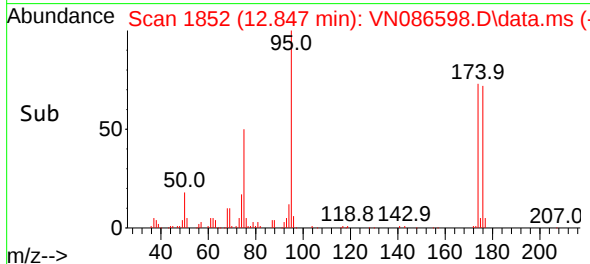
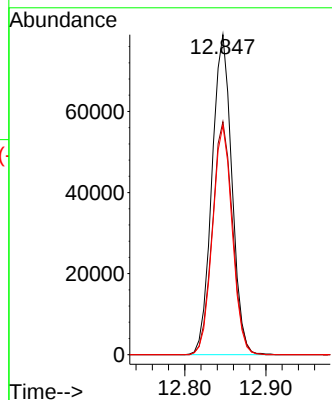
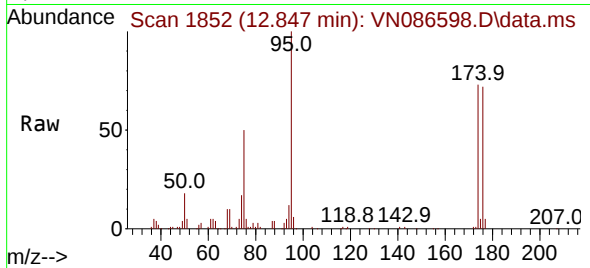




#62
4-Bromofluorobenzene
Concen: 47.481 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

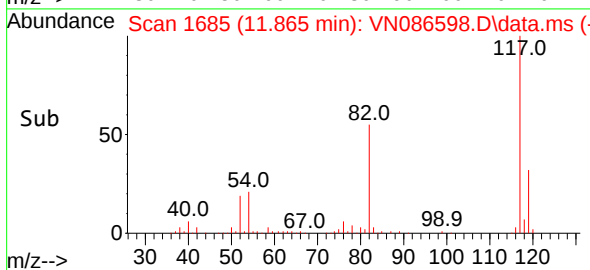
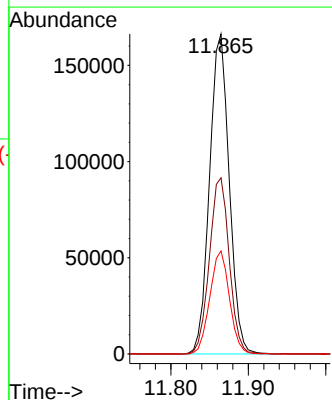
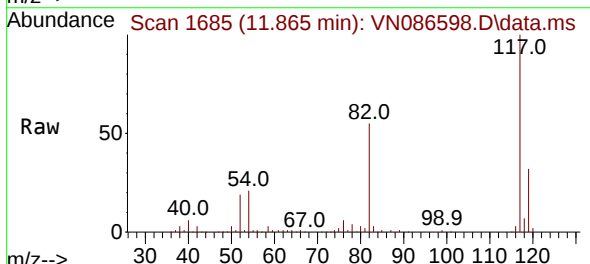
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

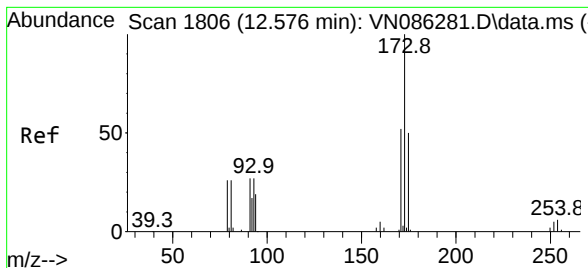
Tgt Ion: 95 Resp: 134424
Ion Ratio Lower Upper
95 100
174 73.9 0.0 133.4
176 70.6 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Tgt Ion: 117 Resp: 293939
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 32.2 26.4 39.6





#71

Bromoform

Concen: 0.320 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

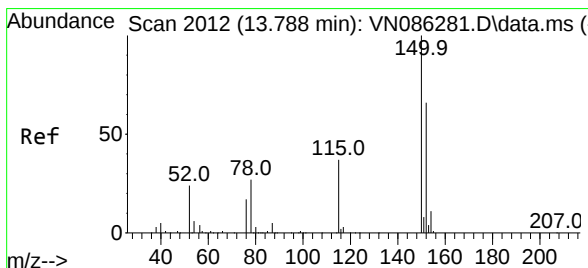
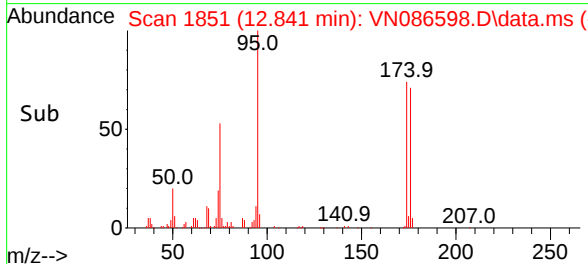
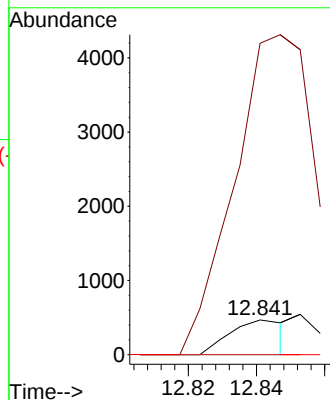
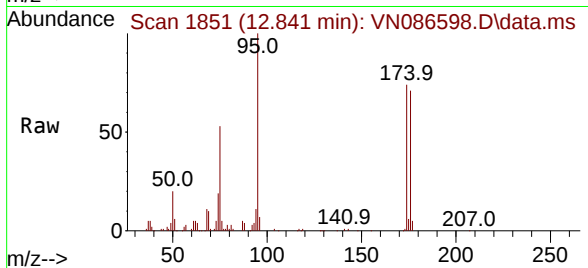
Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#17

Tgt Ion:	173	Resp:	522
Ion Ratio	Lower	Upper	
173	100		
175	1176.8	24.6	73.6#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

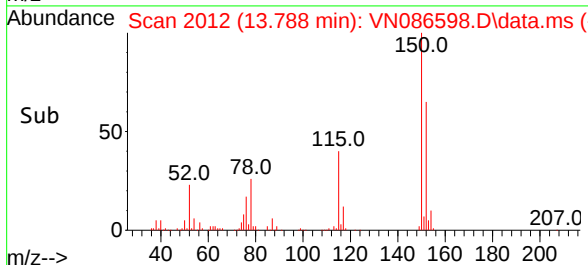
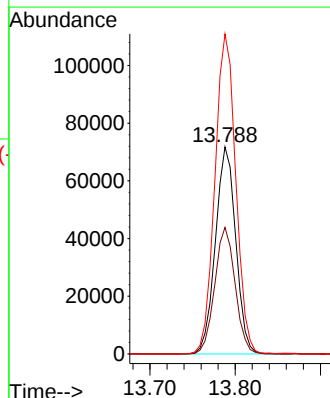
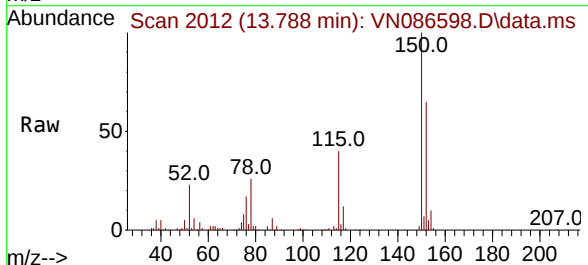
RT: 13.788 min Scan# 1212

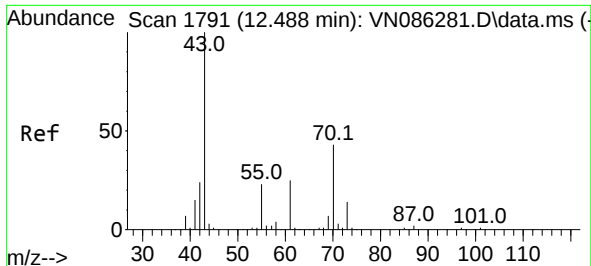
Delta R.T. -0.000 min

Lab File: VN086598.D

Acq: 13 May 2025 13:46

Tgt Ion:	152	Resp:	119052
Ion Ratio	Lower	Upper	
152	100		
115	61.1	31.9	95.9
150	158.3	0.0	352.0

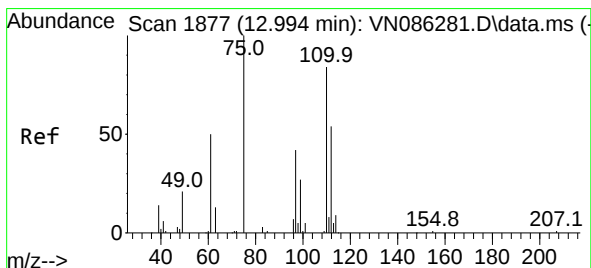
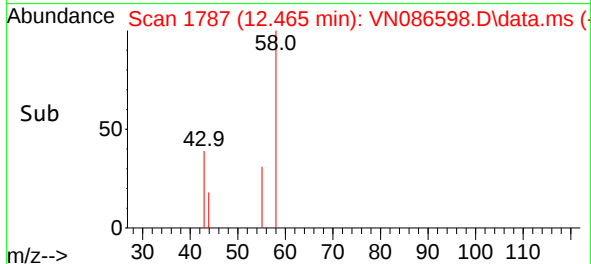
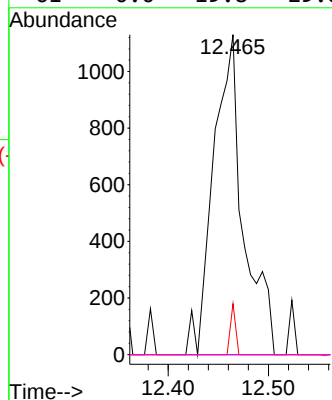
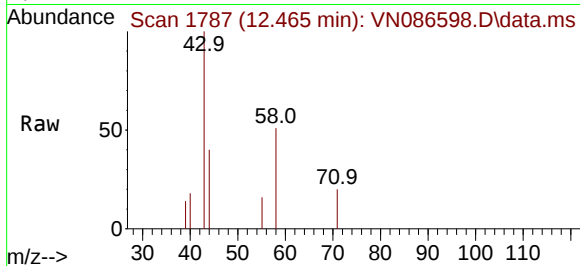




#74
N-amy1 acetate
Concen: 0.485 ug/l
RT: 12.465 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

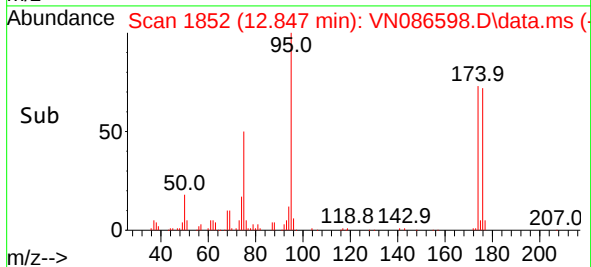
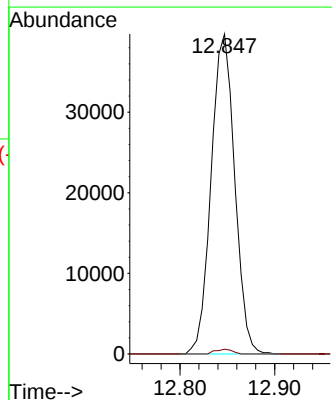
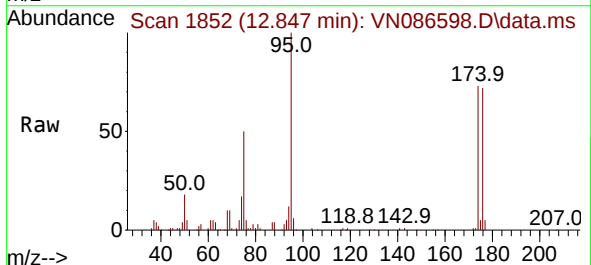
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17

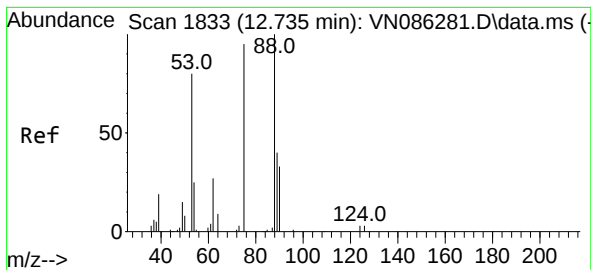
Tgt Ion: 43	Resp: 2351
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.7	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.401 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

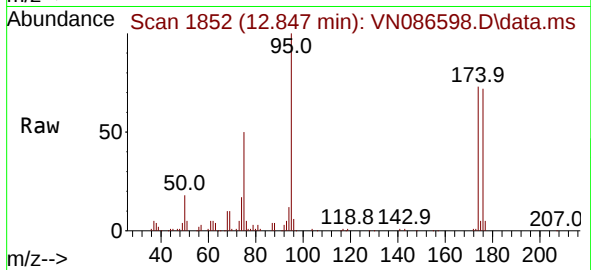
Tgt Ion: 75	Resp: 68554
Ion Ratio	Lower Upper
75 100	
77 1.1	98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 58.603 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086598.D
Acq: 13 May 2025 13:46

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#17



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

