

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
 Data File : VN086544.D
 Acq On : 08 May 2025 14:36
 Operator : JC\MD
 Sample : PB167895ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#02

Quant Time: May 09 01:52:09 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)

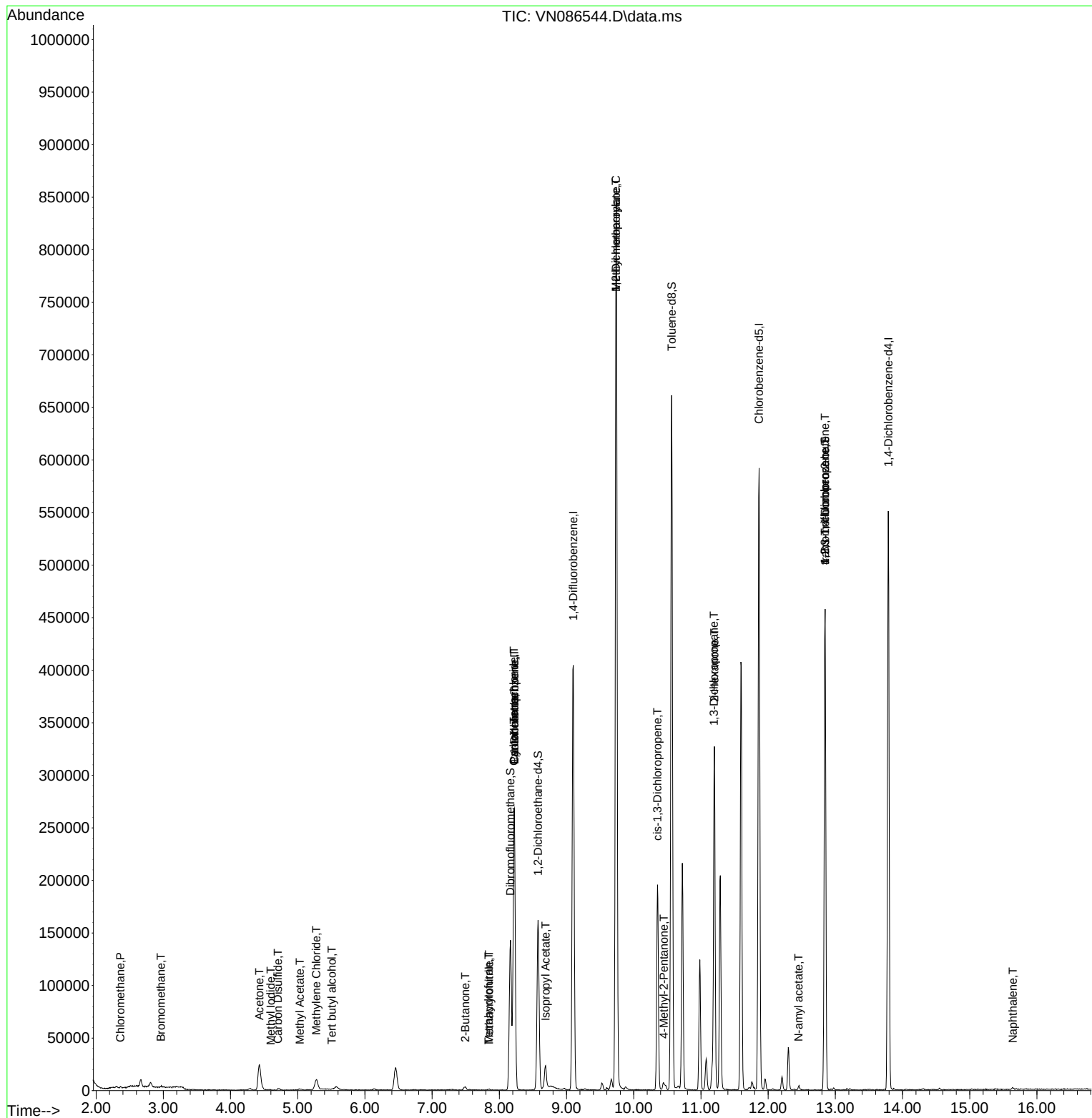
Internal Standards						
1) Pentafluorobenzene	8.224	168	202516	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	369362	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	351871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	153642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134814	45.907	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.820%		
35) Dibromofluoromethane	8.165	113	105631	61.619	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	123.240%		
50) Toluene-d8	10.565	98	466275	50.893	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.780%		
62) 4-Bromofluorobenzene	12.847	95	168476	50.416	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.840%		
Target Compounds						Qvalue
3) Chloromethane	2.360	50	1153	0.330	ug/l #	86
5) Bromomethane	2.965	94	737	0.492	ug/l #	78
10) Methyl Iodide	4.601	142	562	0.229	ug/l #	42
11) Tert butyl alcohol	5.506	59	545	1.017	ug/l #	72
16) Acetone	4.430	43	46813	41.343	ug/l	98
17) Carbon Disulfide	4.706	76	1878	0.263	ug/l #	74
18) Methyl Acetate	5.030	43	2680	0.760	ug/l #	64
20) Methylene Chloride	5.277	84	7925	2.919	ug/l	91
25) 2-Butanone	7.494	43	5636	3.083	ug/l	98
29) Tetrahydrofuran	7.841	42	770	0.630	ug/l #	51
31) Cyclohexane	8.224	56	4318	0.907	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15818	4.620	ug/l #	49
38) Carbon Tetrachloride	8.218	117	19765	6.062	ug/l #	16
41) Methacrylonitrile	7.847	41	433	0.207	ug/l #	29
43) Isopropyl Acetate	8.688	43	29755	2.788	ug/l #	86
45) 1,2-Dichloropropane	9.735	63	1137	0.423	ug/l #	43
48) Methyl methacrylate	9.735	41	75916	23.982	ug/l #	43
51) 4-Methyl-2-Pentanone	10.447	43	9438	2.557	ug/l #	69
54) cis-1,3-Dichloropropene	10.353	75	38325	8.459	ug/l #	59
57) 1,3-Dichloropropane	11.194	76	3473	0.795	ug/l #	43
59) 2-Hexanone	11.200	43	62539	22.842	ug/l #	43
74) N-amyl acetate	12.453	43	3068	0.490	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	83983	23.163	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	83983	55.629	ug/l #	10
95) Naphthalene	15.641	128	2491	0.289	ug/l #	84

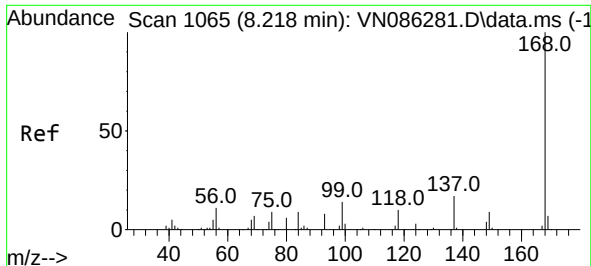
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
Data File : VN086544.D
Acq On : 08 May 2025 14:36
Operator : JC\MD
Sample : PB167895ZHE#02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

Quant Time: May 09 01:52:09 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

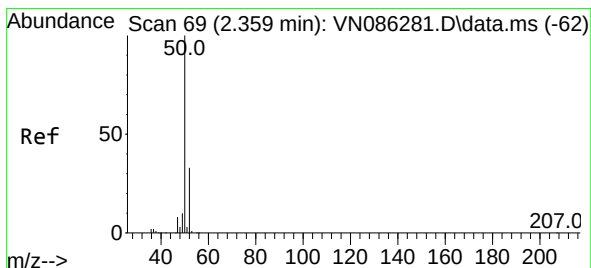
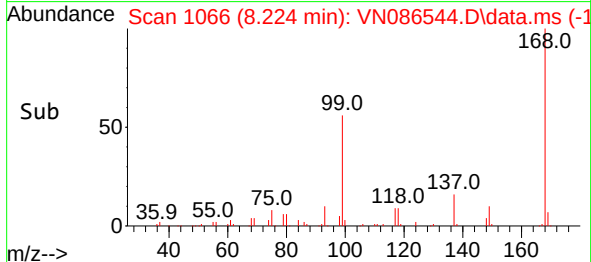
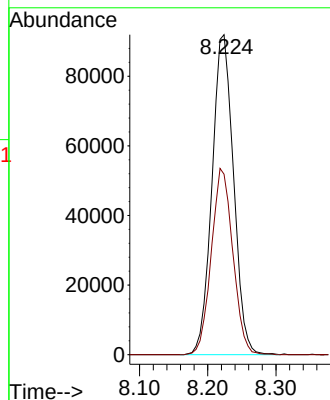
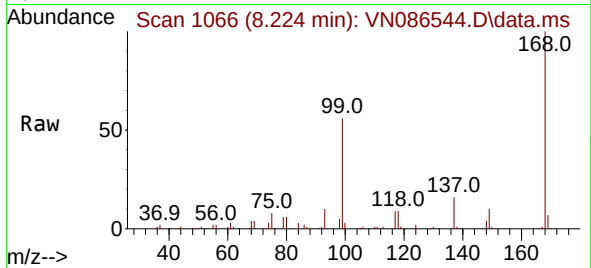




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

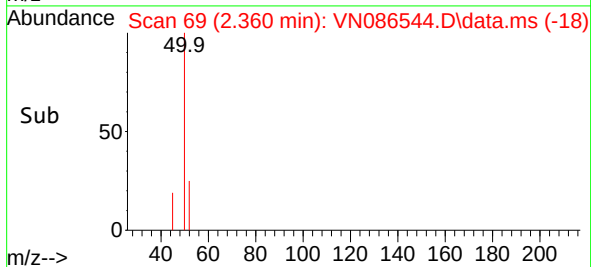
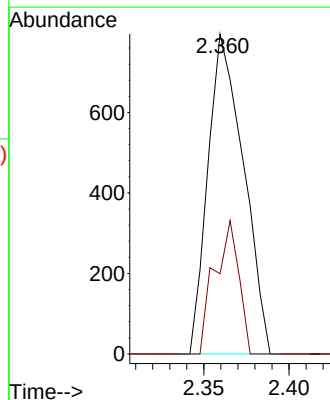
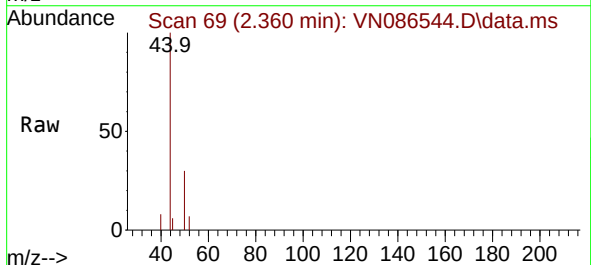
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

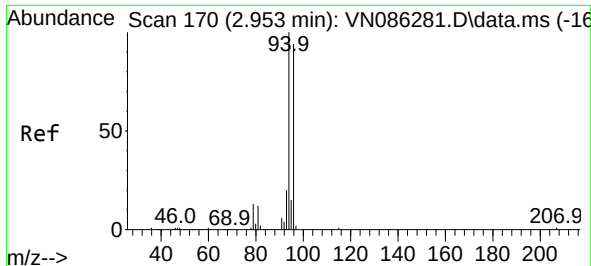
Tgt Ion:168 Resp: 202516
Ion Ratio Lower Upper
168 100
99 56.4 52.5 78.7



#3
Chloromethane
Concen: 0.330 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 50 Resp: 1153
Ion Ratio Lower Upper
50 100
52 25.0 26.5 39.7#

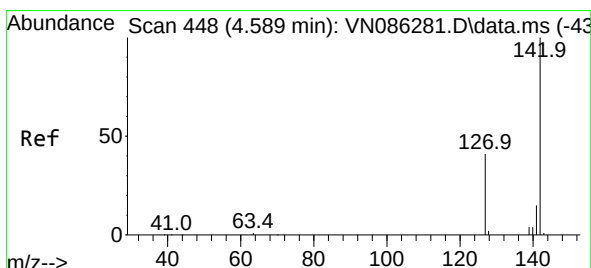
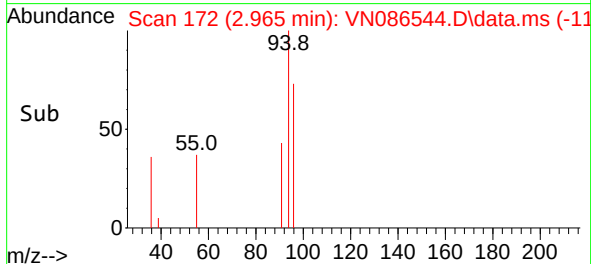
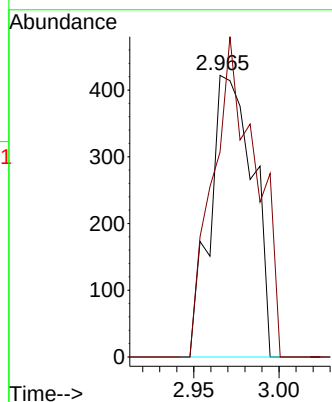
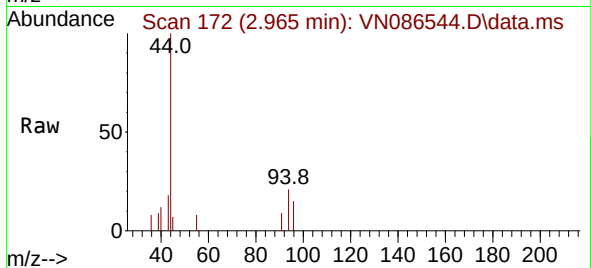




#5
Bromomethane
Concen: 0.492 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

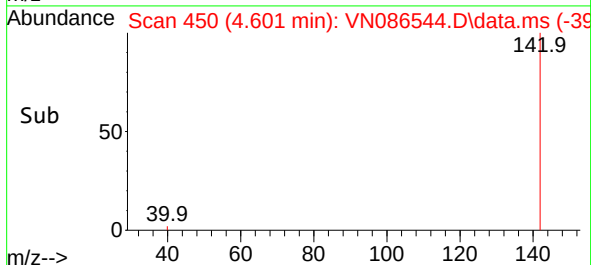
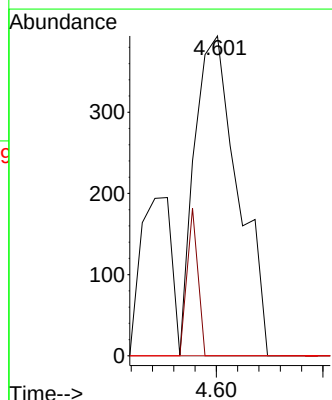
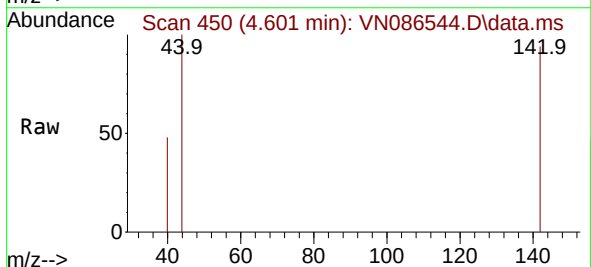
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

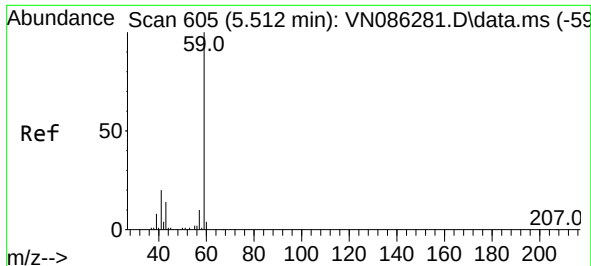
Tgt Ion: 94 Resp: 737
Ion Ratio Lower Upper
94 100
96 72.7 75.2 112.8#



#10
Methyl Iodide
Concen: 0.229 ug/l
RT: 4.601 min Scan# 450
Delta R.T. 0.012 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 142 Resp: 562
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.7 17.5#

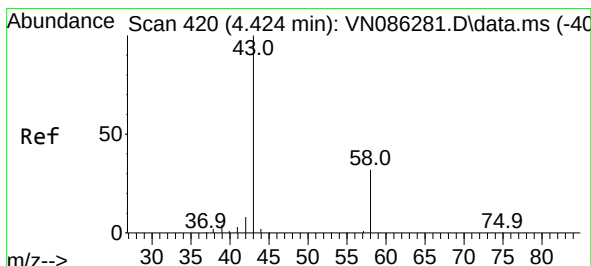
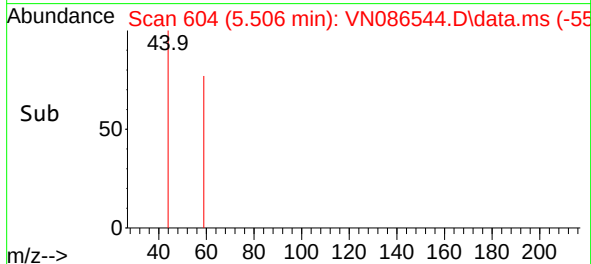
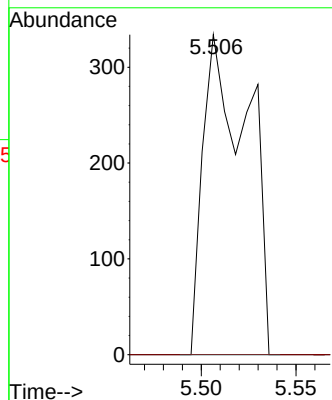
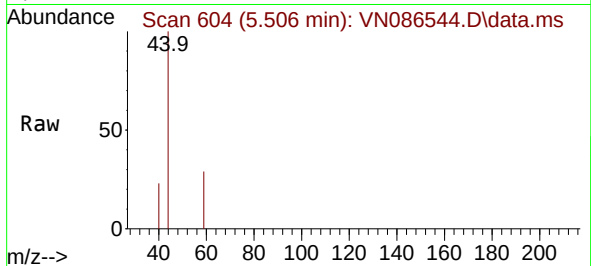




#11
Tert butyl alcohol
Concen: 1.017 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

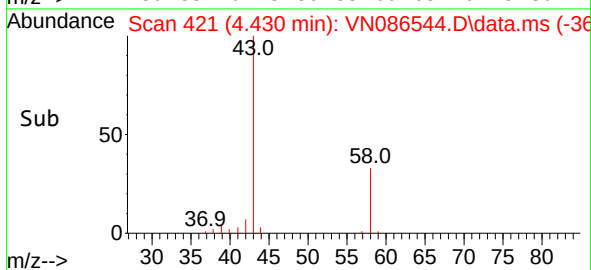
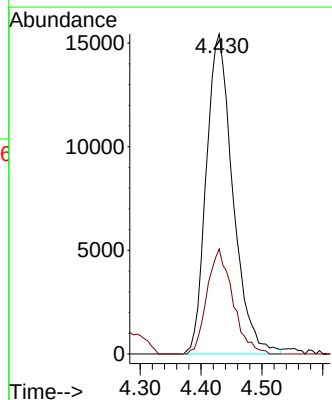
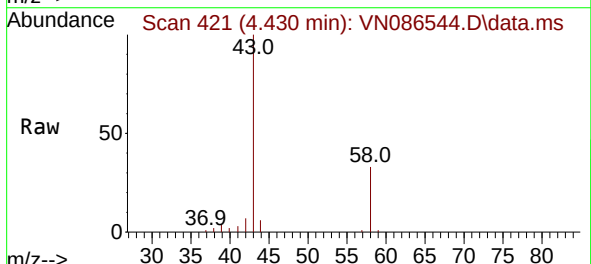
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

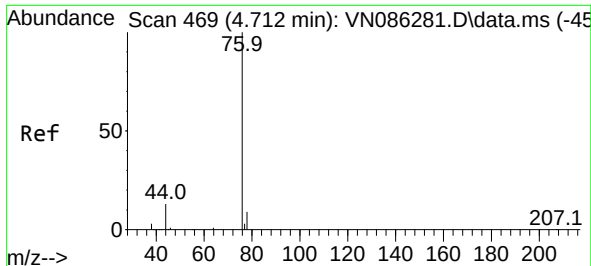
Tgt Ion: 59 Resp: 545
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 41.343 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 43 Resp: 46813
Ion Ratio Lower Upper
43 100
58 32.8 25.3 37.9

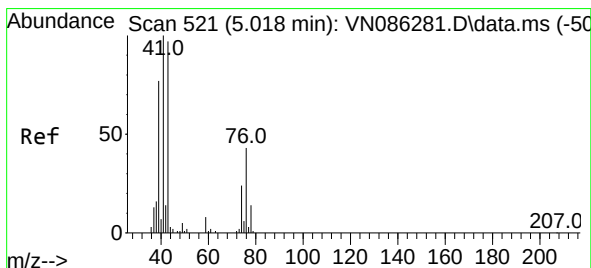
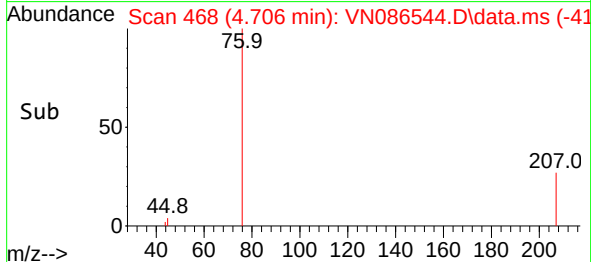
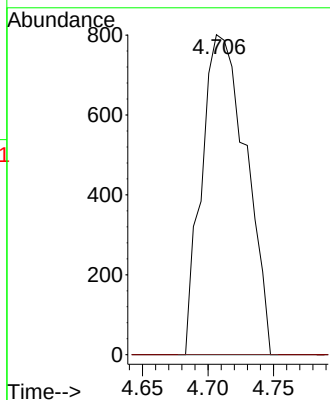
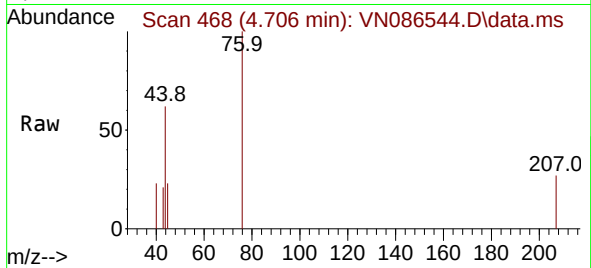




#17
Carbon Disulfide
Concen: 0.263 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

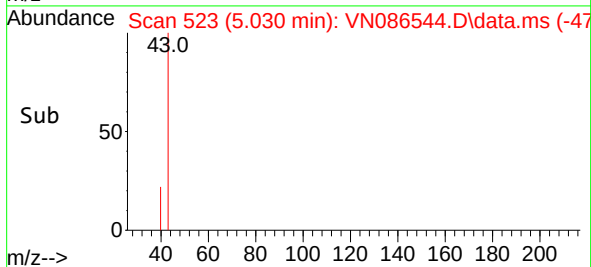
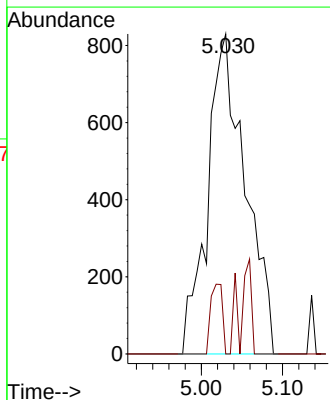
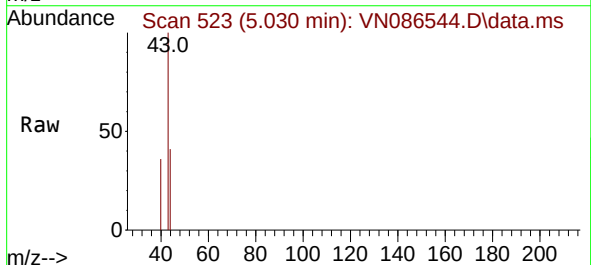
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

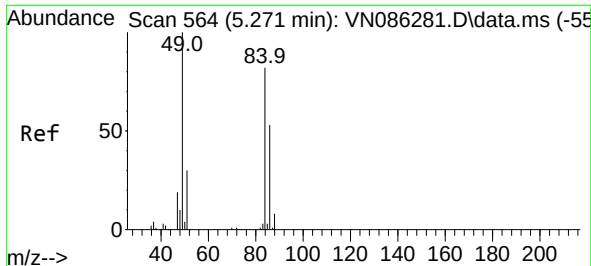
Tgt Ion: 76 Resp: 1878
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.760 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

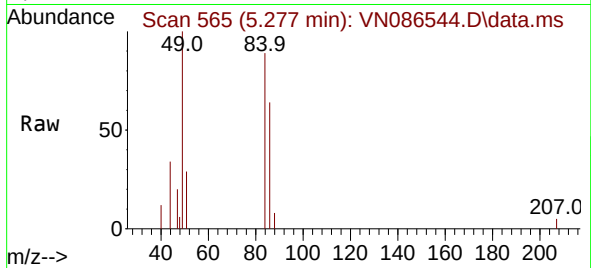
Tgt Ion: 43 Resp: 2680
Ion Ratio Lower Upper
43 100
74 6.7 19.8 29.6#



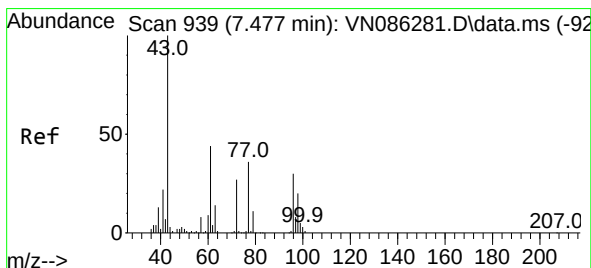
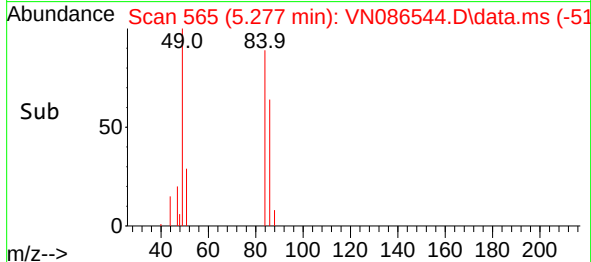
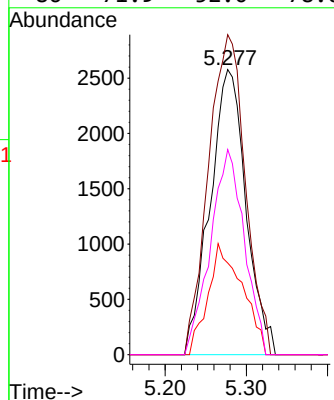


#20
Methylene Chloride
Concen: 2.919 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

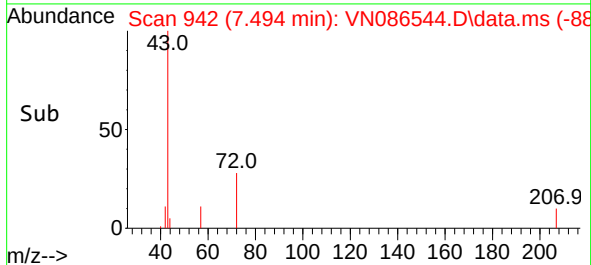
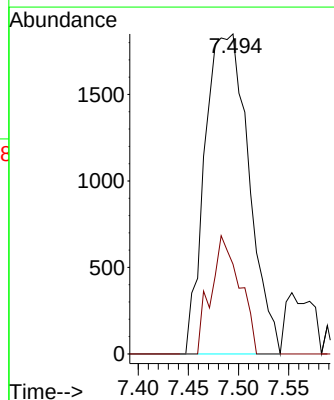
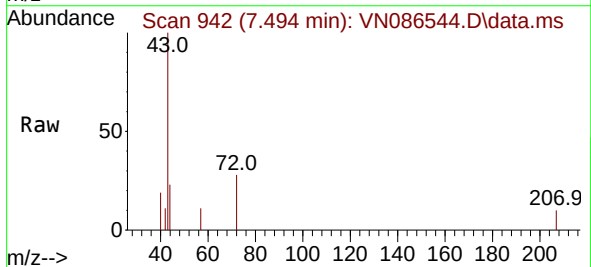


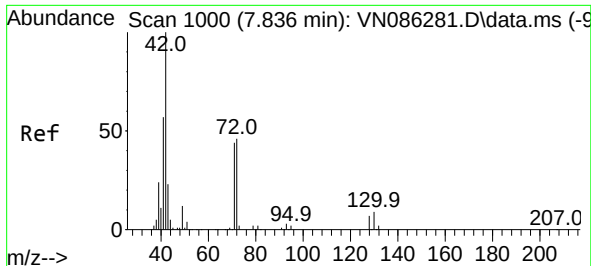
Tgt Ion:	84	Resp:	7925
Ion	Ratio	Lower	Upper
84	100		
49	112.3	98.2	147.2
51	32.2	29.8	44.6
86	71.9	52.0	78.0



#25
2-Butanone
Concen: 3.083 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion:	43	Resp:	5636
Ion	Ratio	Lower	Upper
43	100		
72	28.1	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.630 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086544.D

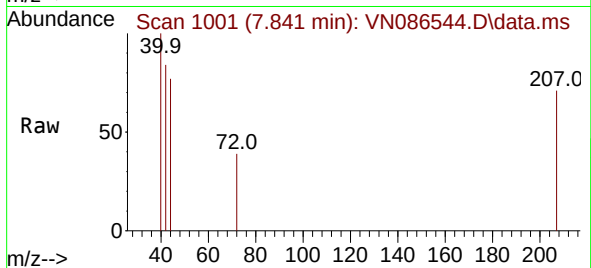
Acq: 08 May 2025 14:36

Instrument :

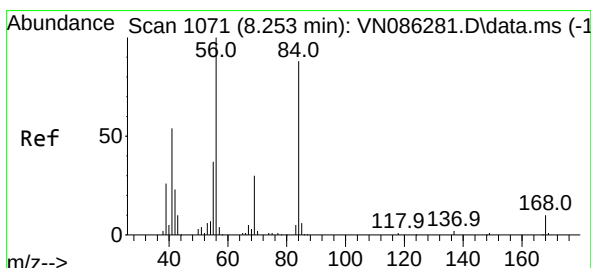
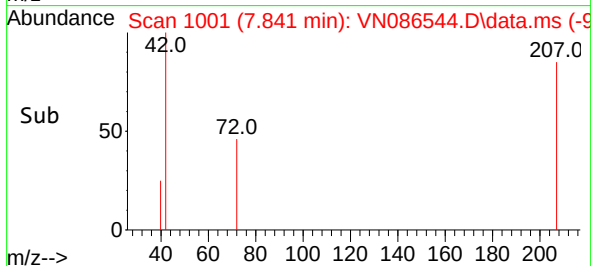
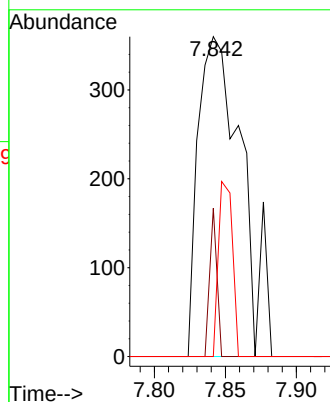
MSVOA_N

ClientSampleId :

PB167895ZHE#02



Tgt Ion:	42	Resp:	770
Ion	Ratio	Lower	Upper
42	100		
72	7.7	36.2	54.4#
71	17.4	34.0	51.0#



#31

Cyclohexane

Concen: 0.907 ug/l

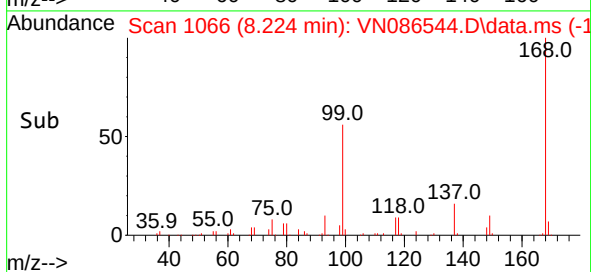
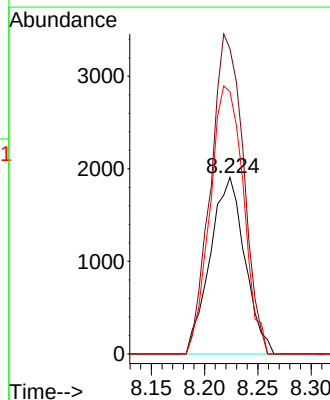
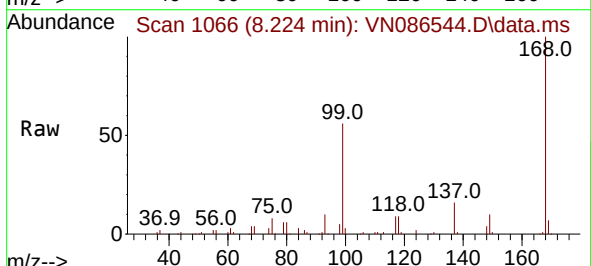
RT: 8.224 min Scan# 1066

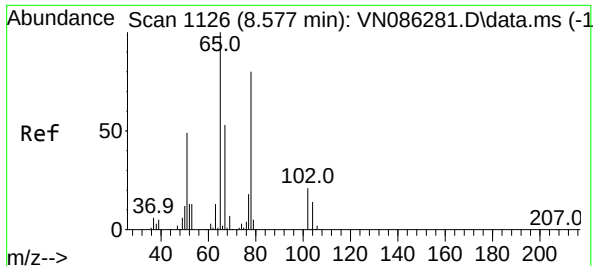
Delta R.T. -0.029 min

Lab File: VN086544.D

Acq: 08 May 2025 14:36

Tgt Ion:	56	Resp:	4318
Ion	Ratio	Lower	Upper
56	100		
69	172.9	24.2	36.2#
84	148.6	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 45.907 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086544.D

Acq: 08 May 2025 14:36

Instrument :

MSVOA_N

ClientSampleId :

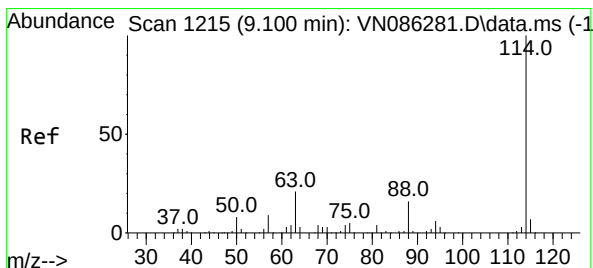
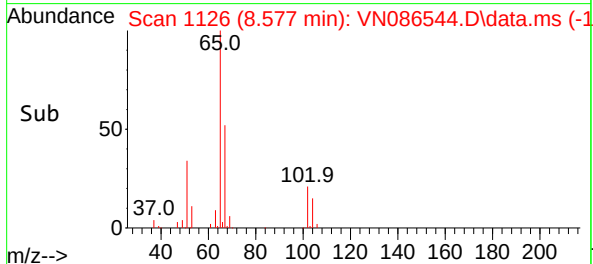
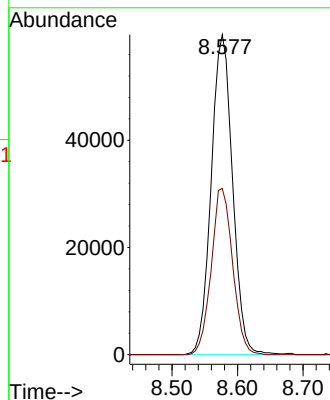
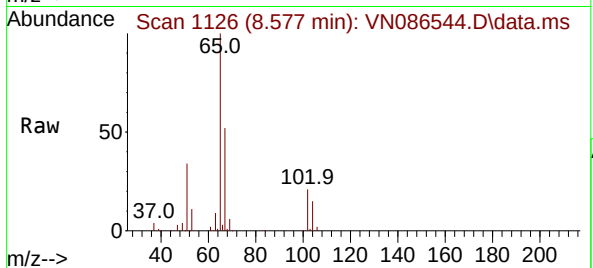
PB167895ZHE#02

Tgt Ion: 65 Resp: 134814

Ion Ratio Lower Upper

65 100

67 52.0 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: VN086544.D

Acq: 08 May 2025 14:36

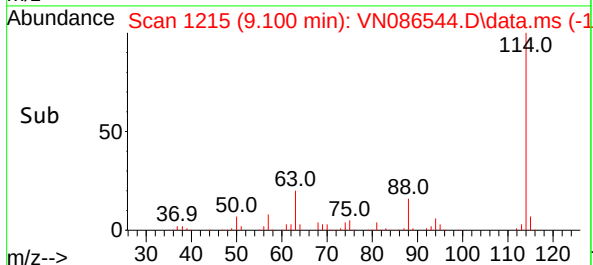
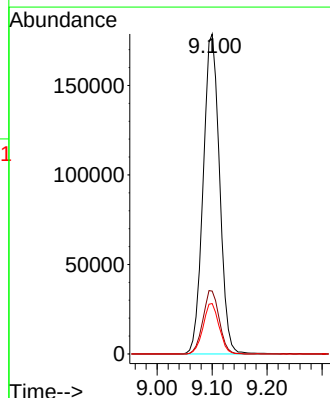
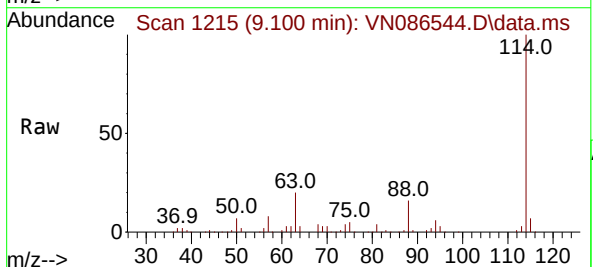
Tgt Ion: 114 Resp: 369362

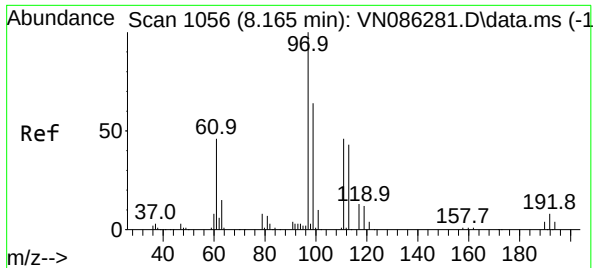
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

88 15.7 0.0 31.8

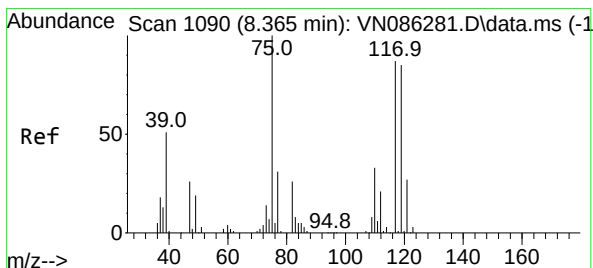
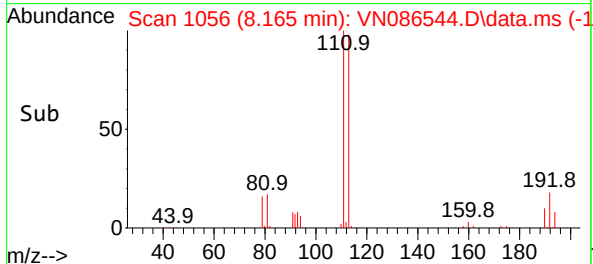
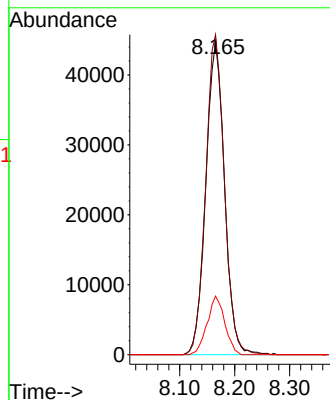
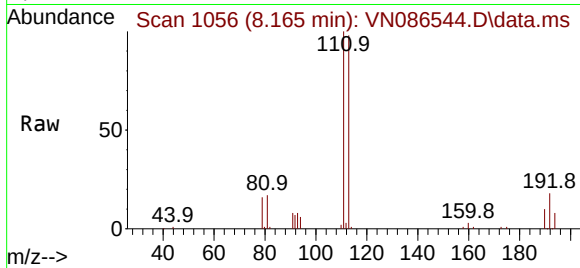




#35
Dibromofluoromethane
Concen: 61.619 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

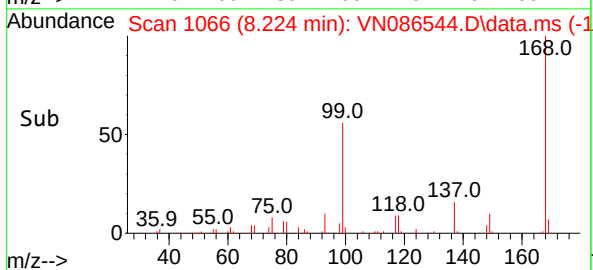
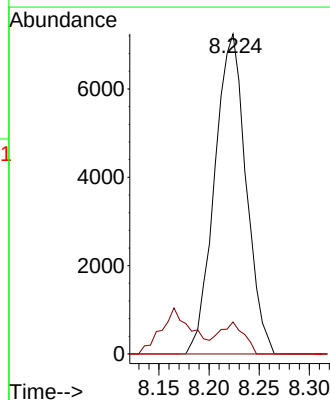
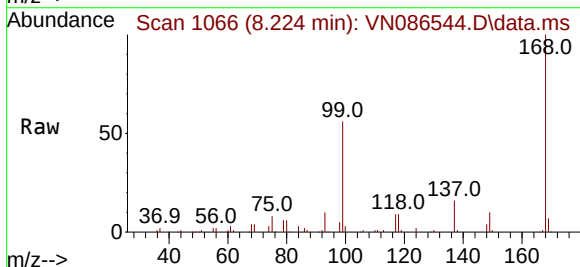
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

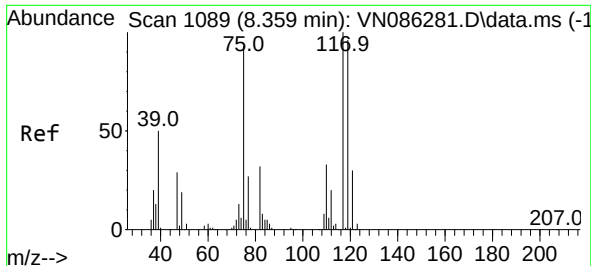
Tgt Ion:113 Resp: 105631
Ion Ratio Lower Upper
113 100
111 102.2 83.4 125.0
192 17.6 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.620 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

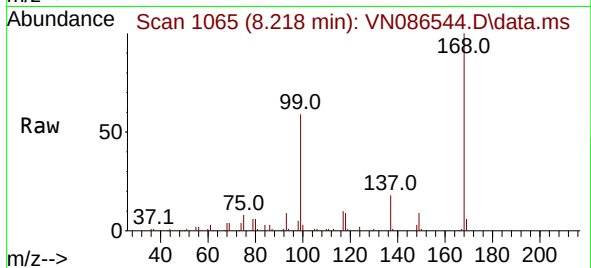
Tgt Ion: 75 Resp: 15818
Ion Ratio Lower Upper
75 100
110 7.8 16.8 50.4#
77 0.0 24.9 37.3#



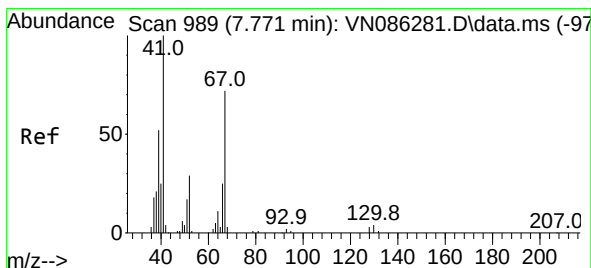
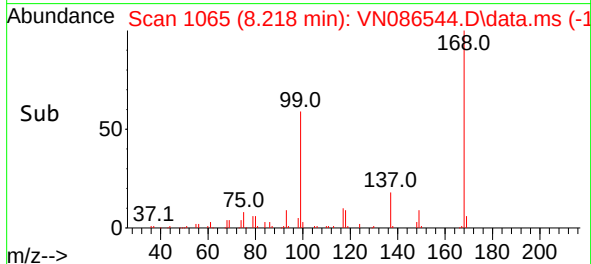
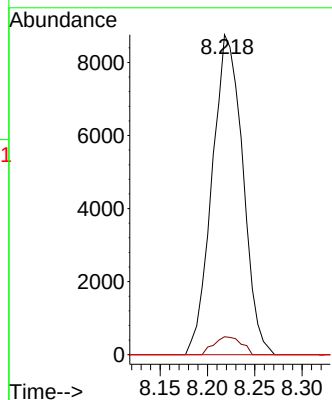


#38
Carbon Tetrachloride
Concen: 6.062 ug/l
RT: 8.218 min Scan# 1002
Delta R.T. -0.141 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

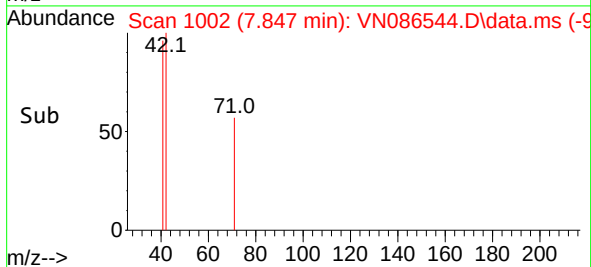
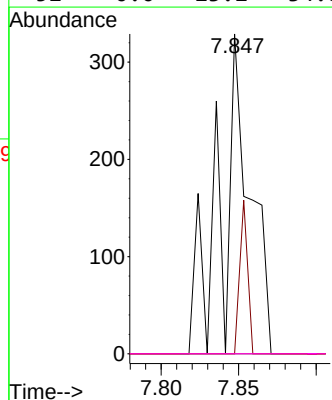
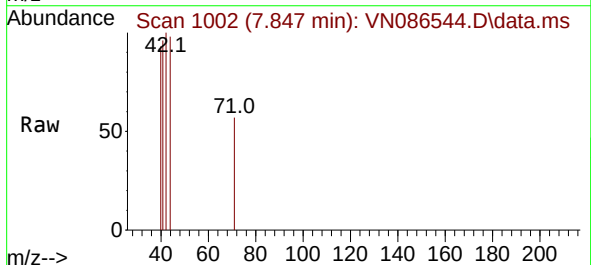


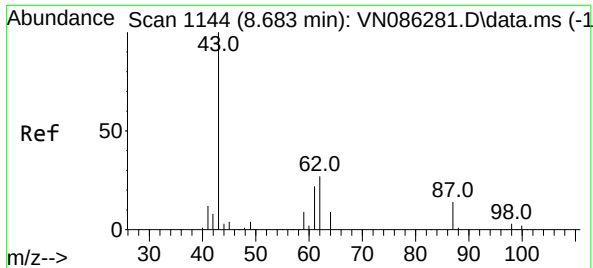
Tgt Ion:117 Resp: 19765
Ion Ratio Lower Upper
117 100
119 5.6 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.207 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.077 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 41 Resp: 433
Ion Ratio Lower Upper
41 100
39 12.9 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

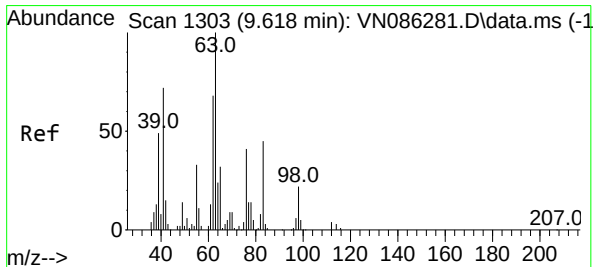
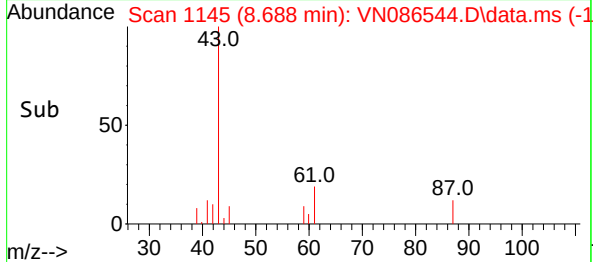
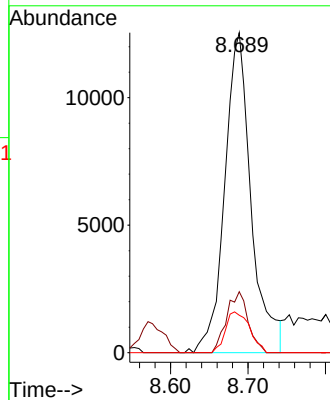
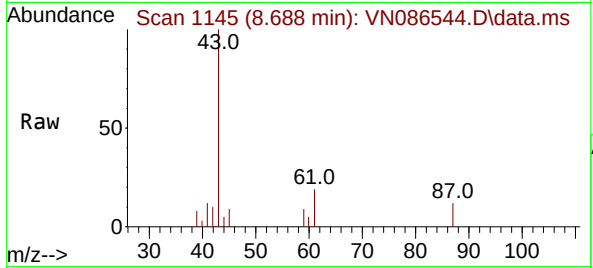




#43
Isopropyl Acetate
Concen: 2.788 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

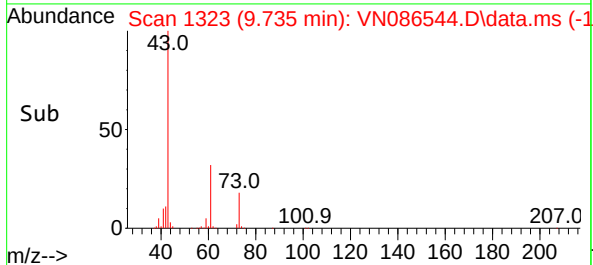
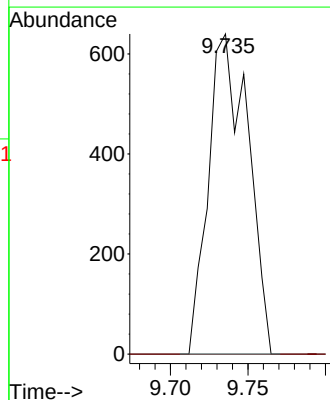
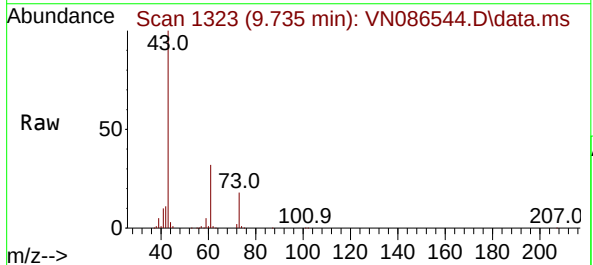
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

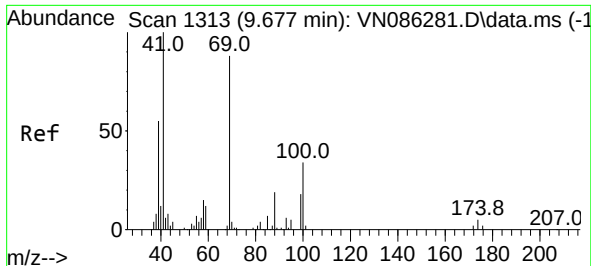
Tgt Ion: 43 Resp: 29755
Ion Ratio Lower Upper
43 100
61 15.6 20.5 30.7#
87 11.7 10.5 15.7



#45
1,2-Dichloropropane
Concen: 0.423 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 63 Resp: 1137
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

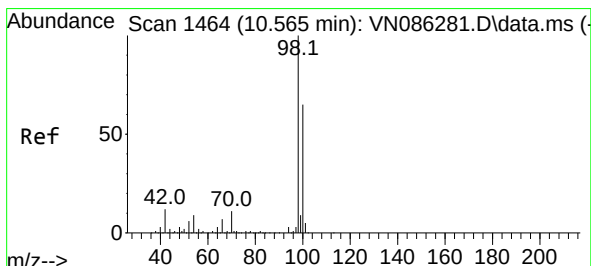
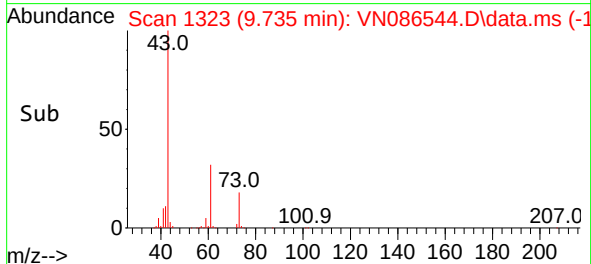
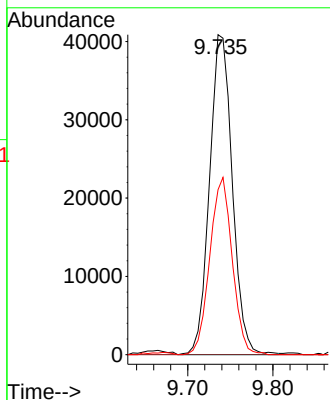
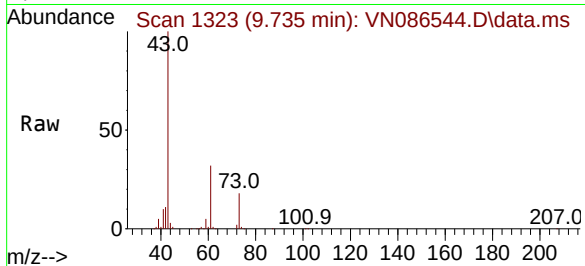




#48
Methyl methacrylate
Concen: 23.982 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

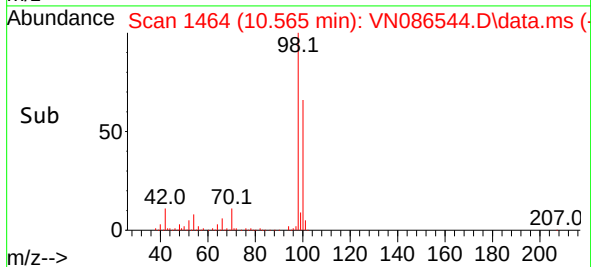
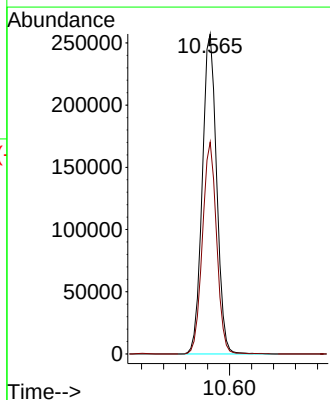
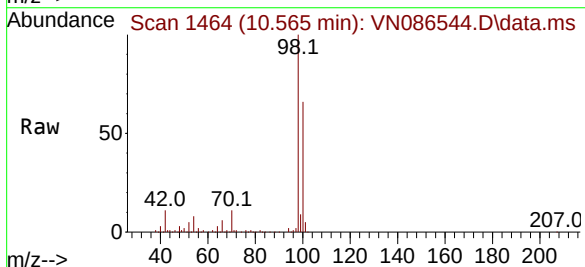
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

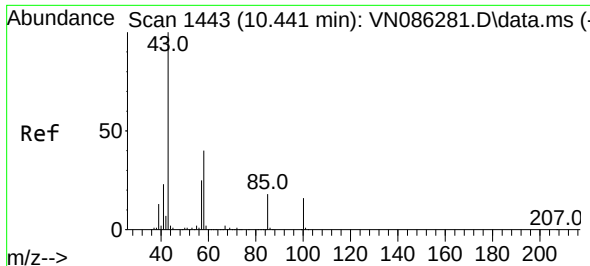
Tgt Ion: 41 Resp: 75916
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 54.5 45.2 67.8



#50
Toluene-d8
Concen: 50.893 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 98 Resp: 466275
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7

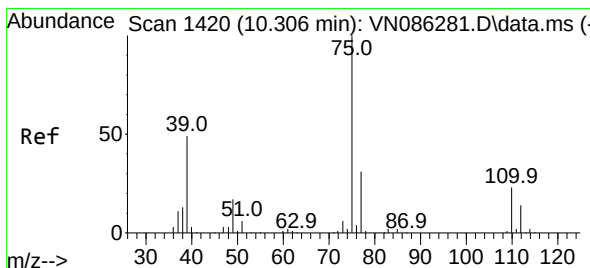
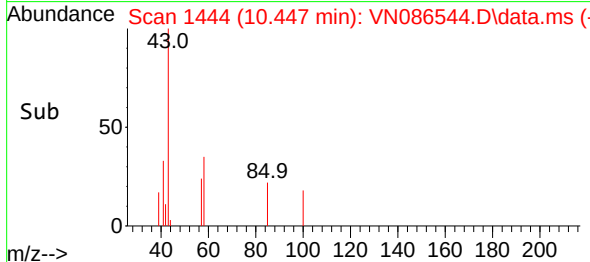
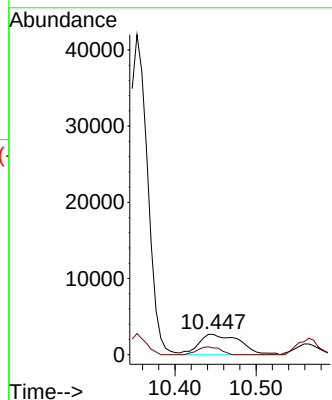
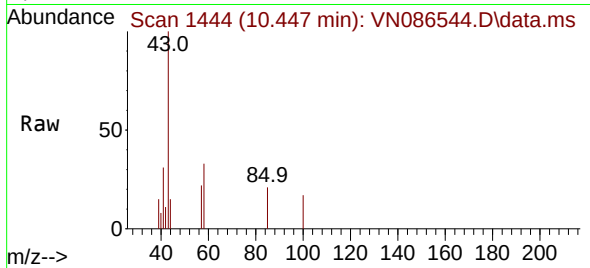




#51
4-Methyl-2-Pentanone
Concen: 2.557 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

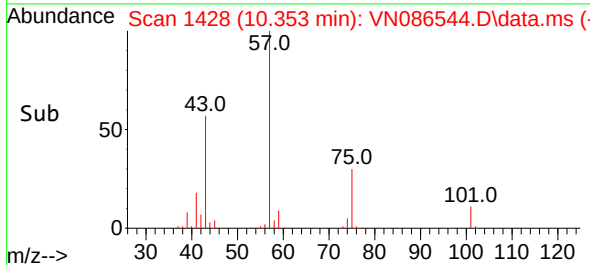
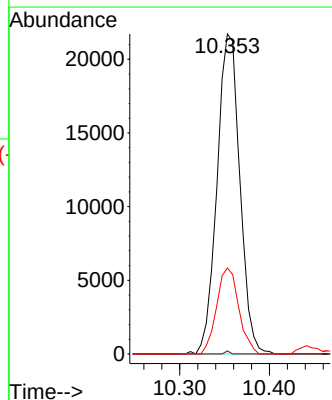
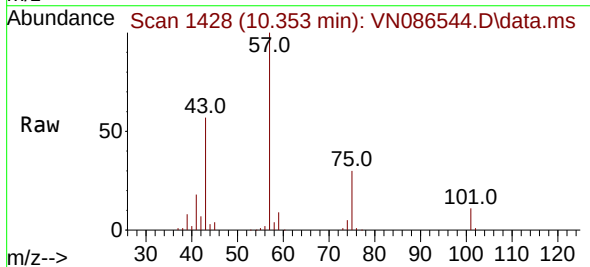
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

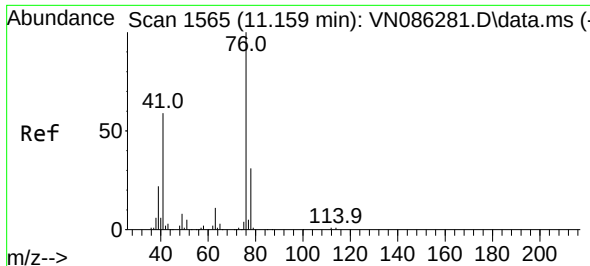
Tgt Ion: 43 Resp: 9438
Ion Ratio Lower Upper
43 100
58 21.4 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 8.459 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 75 Resp: 38325
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 26.9 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.795 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086544.D

Acq: 08 May 2025 14:36

Instrument :

MSVOA_N

ClientSampleId :

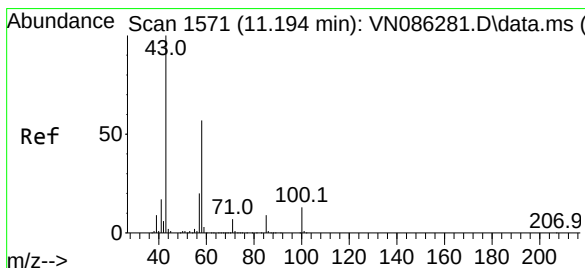
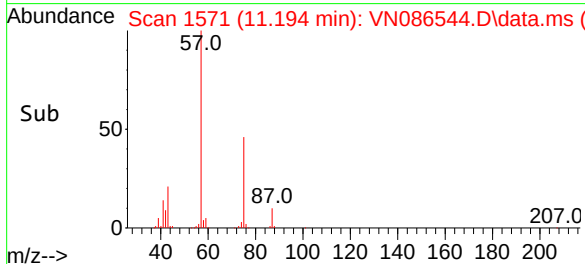
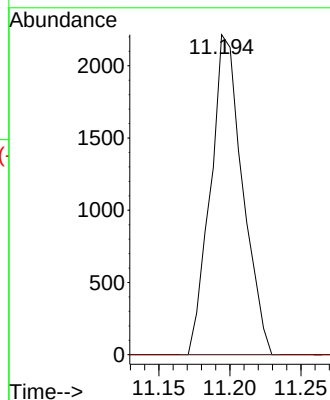
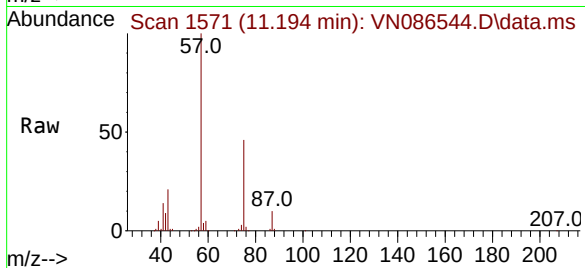
PB167895ZHE#02

Tgt Ion: 76 Resp: 3473

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.842 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086544.D

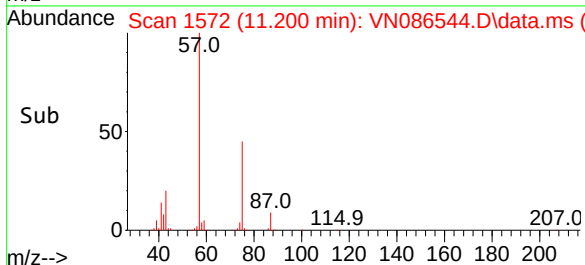
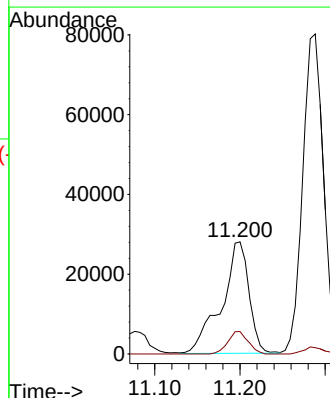
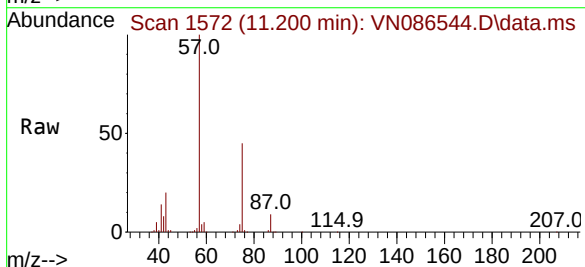
Acq: 08 May 2025 14:36

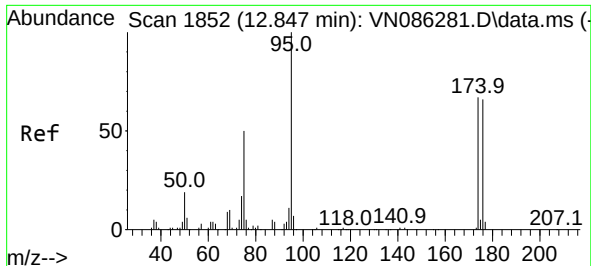
Tgt Ion: 43 Resp: 62539

Ion Ratio Lower Upper

43 100

58 14.9 28.3 85.0#

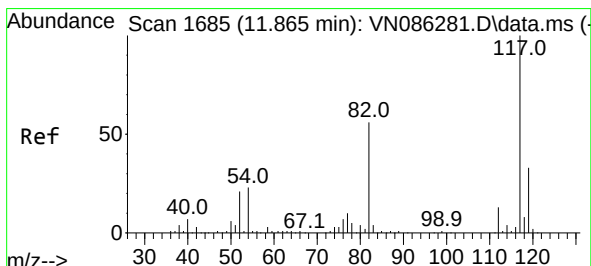
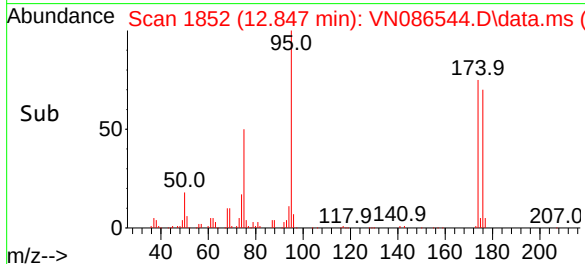
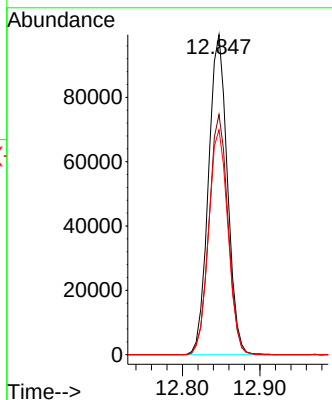
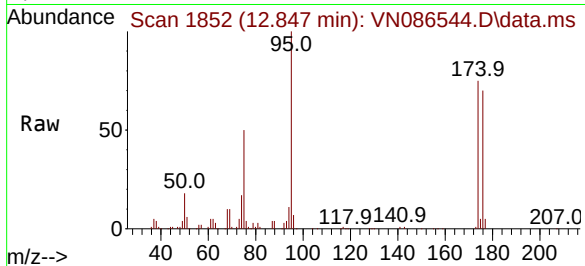




#62
4-Bromofluorobenzene
Concen: 50.416 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

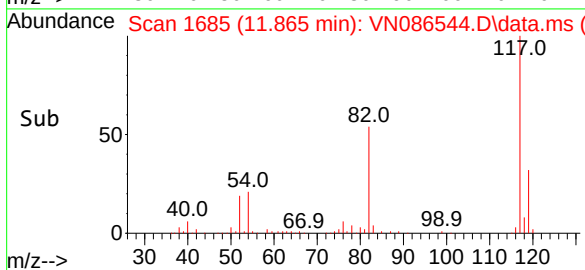
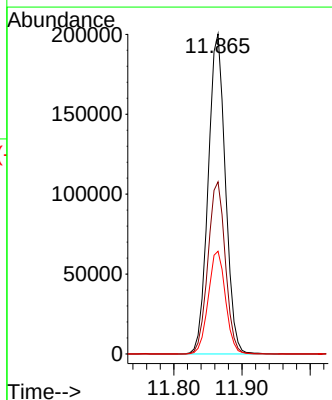
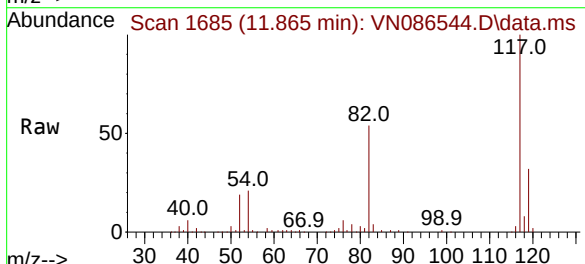
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

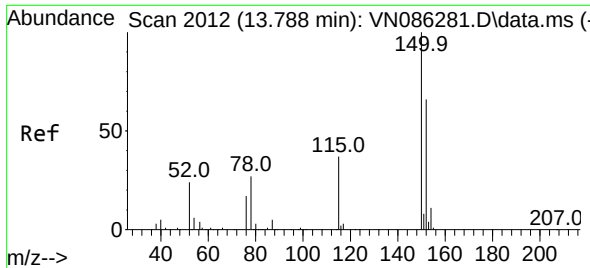
Tgt Ion: 95 Resp: 168476
Ion Ratio Lower Upper
95 100
174 75.3 0.0 133.4
176 71.8 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Tgt Ion: 117 Resp: 351871
Ion Ratio Lower Upper
117 100
82 53.8 44.7 67.1
119 32.1 26.4 39.6

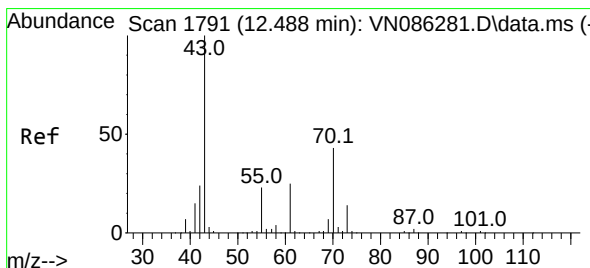
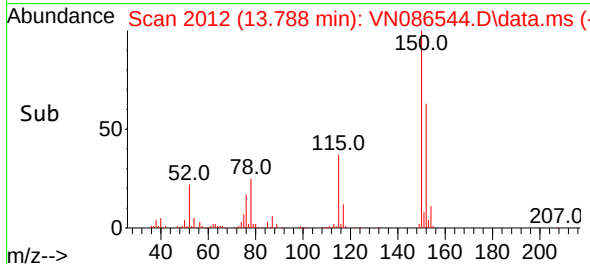
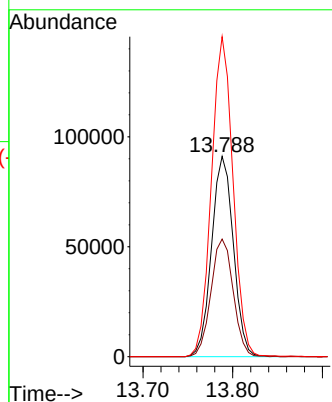
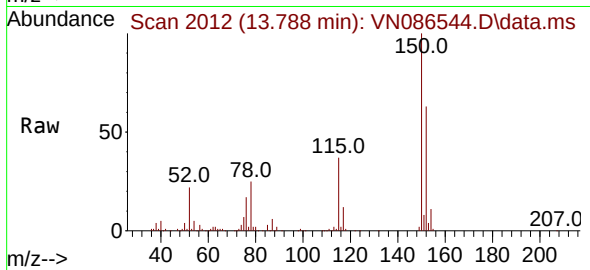




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN086544.D
 Acq: 08 May 2025 14:36

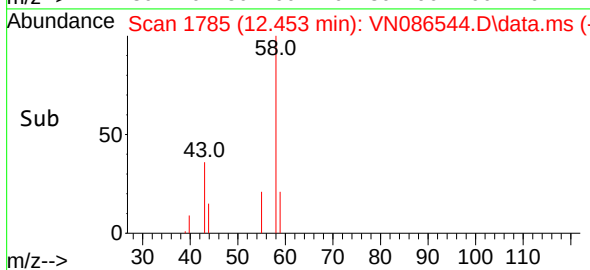
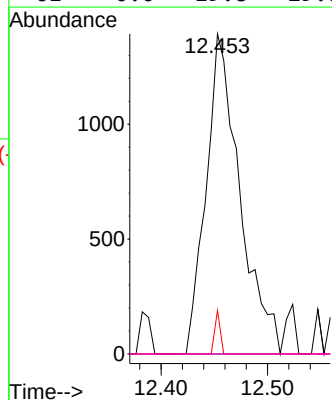
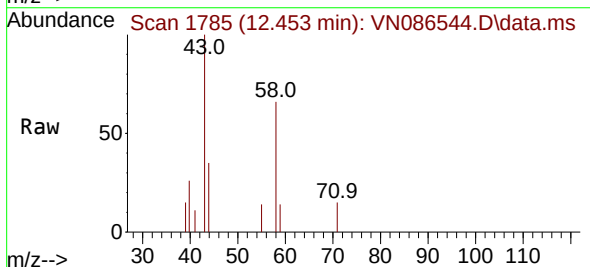
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#02

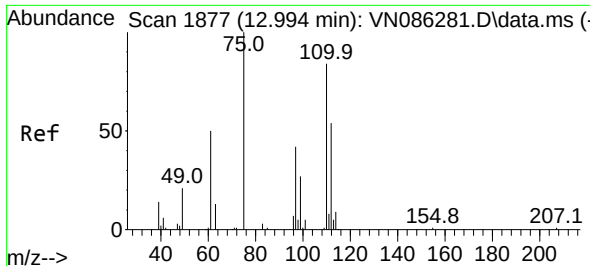
Tgt Ion:152 Resp: 153642
 Ion Ratio Lower Upper
 152 100
 115 60.0 31.9 95.9
 150 158.3 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.490 ug/l
 RT: 12.453 min Scan# 1785
 Delta R.T. -0.035 min
 Lab File: VN086544.D
 Acq: 08 May 2025 14:36

Tgt Ion: 43 Resp: 3068
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 2.2 19.0 28.4#
 61 0.0 19.8 29.8#

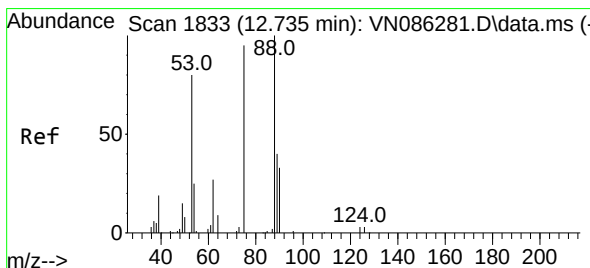
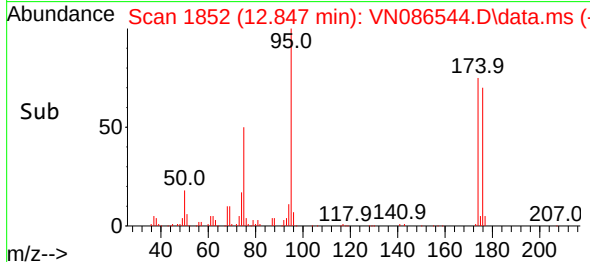
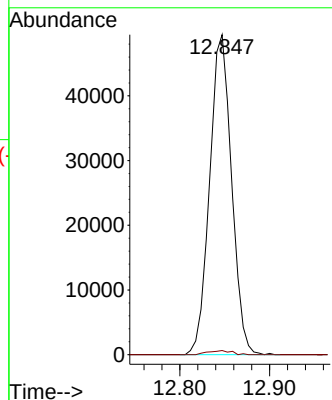
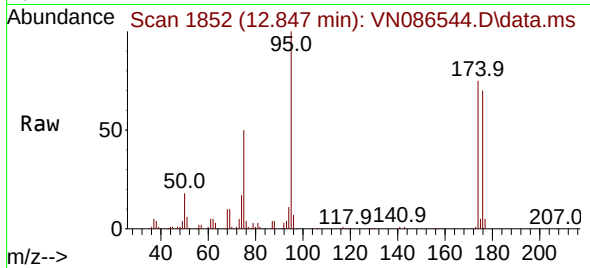




#76
1,2,3-Trichloropropane
Concen: 23.163 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

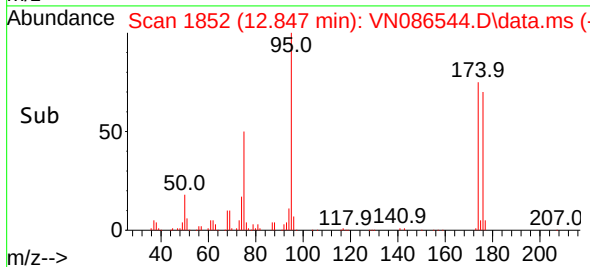
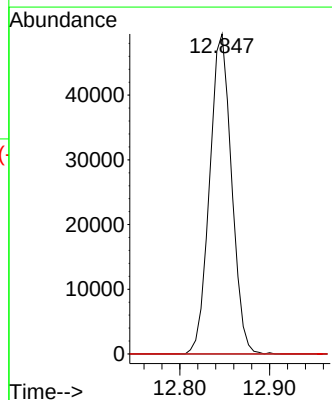
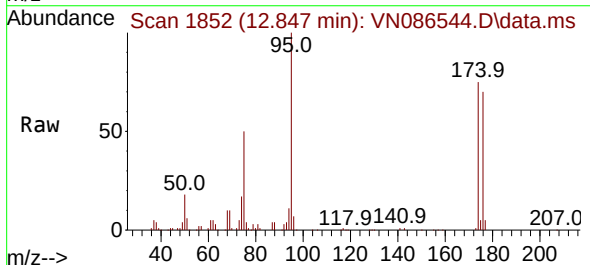
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02

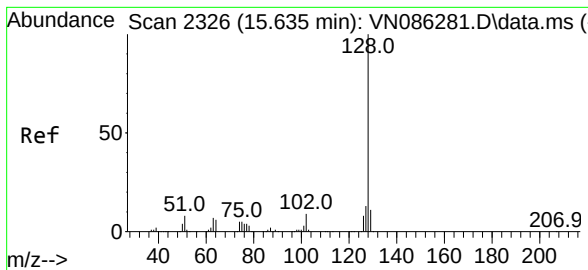
Tgt Ion: 75 Resp: 83983
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.629 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

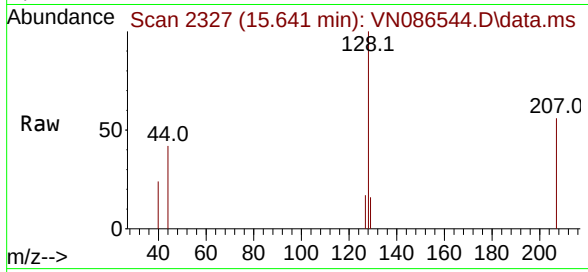
Tgt Ion: 75 Resp: 83983
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#





#95
Naphthalene
Concen: 0.289 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086544.D
Acq: 08 May 2025 14:36

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#02



Tgt Ion:128 Resp: 2491
Ion Ratio Lower Upper
128 100
127 6.1 10.2 15.4#
129 5.3 8.6 13.0#

