

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085604.D
 Acq On : 31 Jan 2025 16:04
 Operator : JC\MD
 Sample : PB166357ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#09

Quant Time: Jan 31 22:30:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

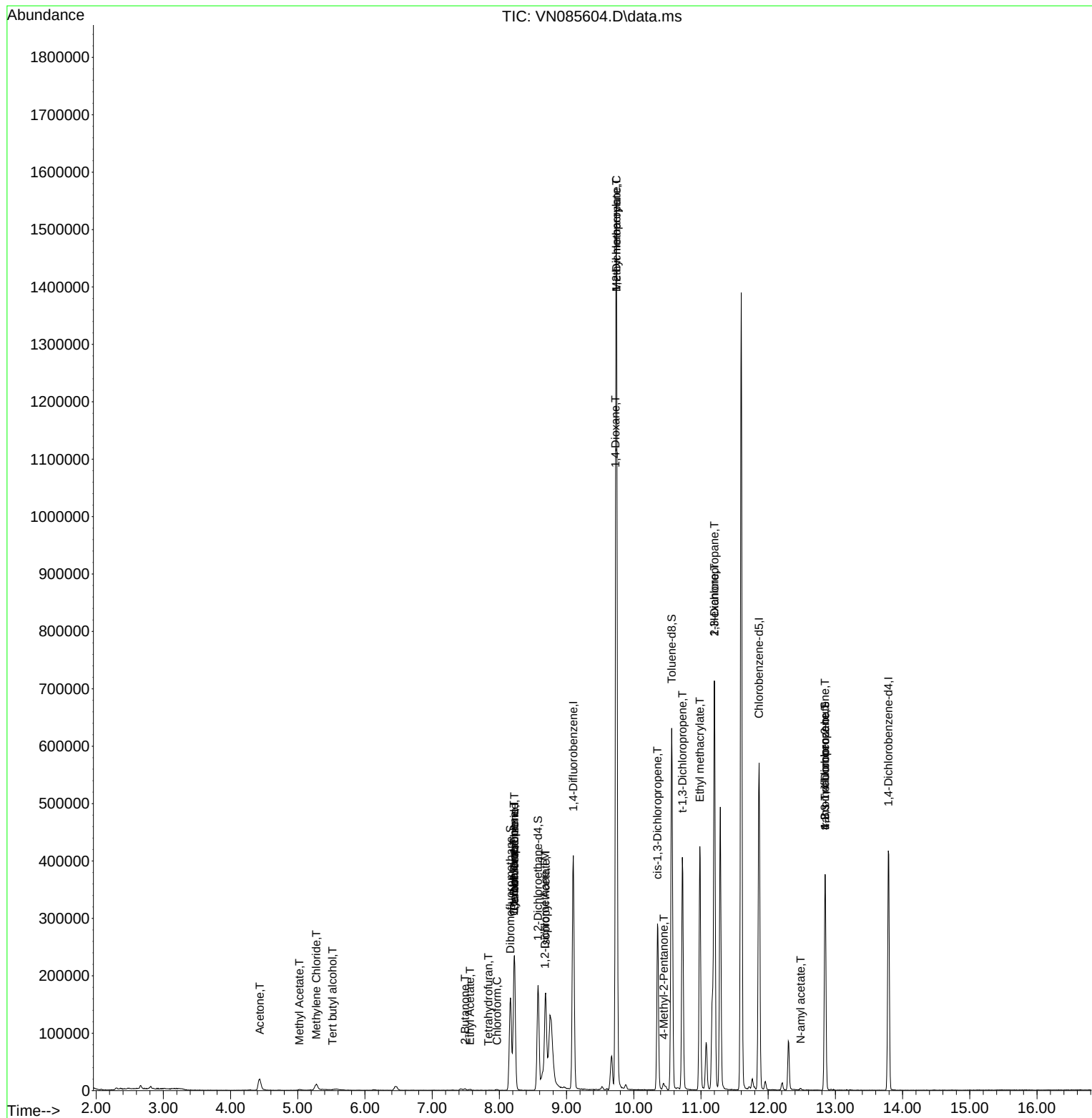
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

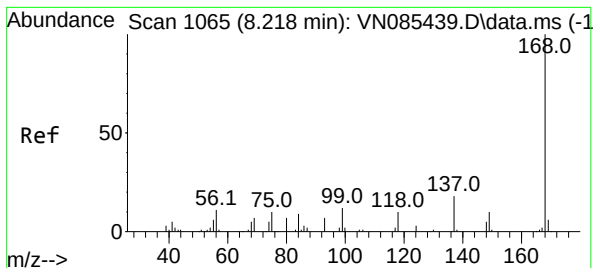
Internal Standards						
1) Pentafluorobenzene	8.224	168	155603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329201	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306076	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	153253	61.014	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.020%			
35) Dibromofluoromethane	8.165	113	114296	50.045	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.100%			
50) Toluene-d8	10.565	98	417653	51.470	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.940%			
62) 4-Bromofluorobenzene	12.847	95	123948	44.654	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.300%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	138	0.480	ug/l #	71
16) Acetone	4.436	43	38722	47.712	ug/l	99
18) Methyl Acetate	5.024	43	3162	1.281	ug/l #	79
20) Methylene Chloride	5.277	84	7192	3.580	ug/l	91
25) 2-Butanone	7.488	43	4131	3.459	ug/l	97
29) Tetrahydrofuran	7.836	42	190	0.251	ug/l #	34
30) Chloroform	7.965	83	1328	0.350	ug/l	90
31) Cyclohexane	8.218	56	4647	1.458	ug/l #	23
36) 1,1-Dichloropropene	8.218	75	15034	4.690	ug/l #	51
37) Ethyl Acetate	7.565	43	3271	1.011	ug/l #	76
38) Carbon Tetrachloride	8.224	117	18867	5.141	ug/l #	18
42) 1,2-Dichloroethane	8.677	62	1160	0.320	ug/l #	76
43) Isopropyl Acetate	8.688	43	215468	41.563	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	1759	0.715	ug/l #	43
48) Methyl methacrylate	9.741	41	148220	63.533	ug/l #	47
49) 1,4-Dioxane	9.729	88	56	1.425	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	7222	2.401	ug/l	98
53) t-1,3-Dichloropropene	10.724	75	914	0.267	ug/l #	79
54) cis-1,3-Dichloropropene	10.353	75	46133	12.638	ug/l #	68
56) Ethyl methacrylate	10.982	69	2308	2.528	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6834	1.780	ug/l #	43
59) 2-Hexanone	11.200	43	87903	41.528	ug/l #	58
74) N-amyl acetate	12.482	43	2023	0.613	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69448	31.409	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69448	84.980	ug/l #	3

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

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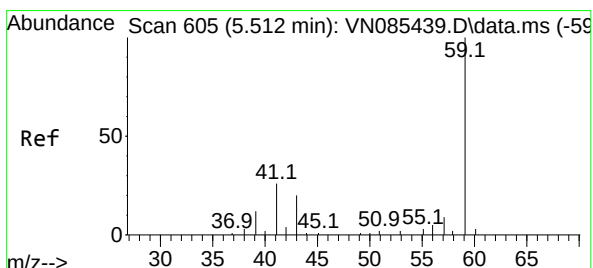
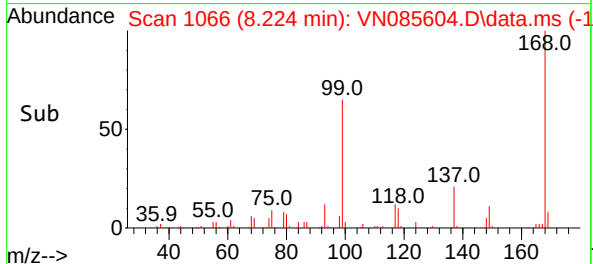
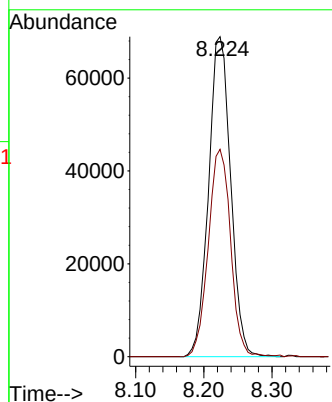
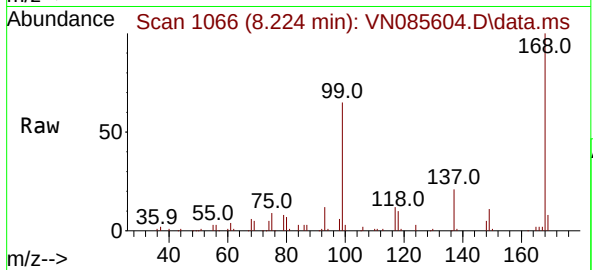




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

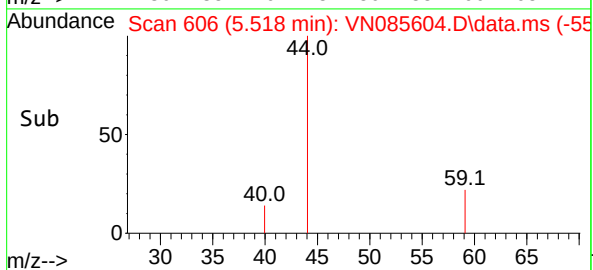
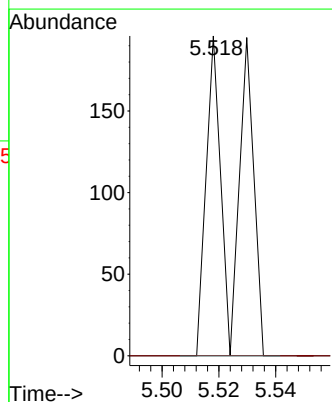
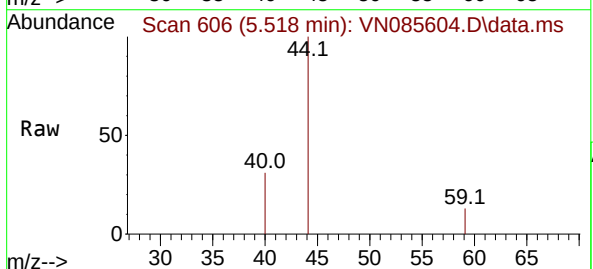
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

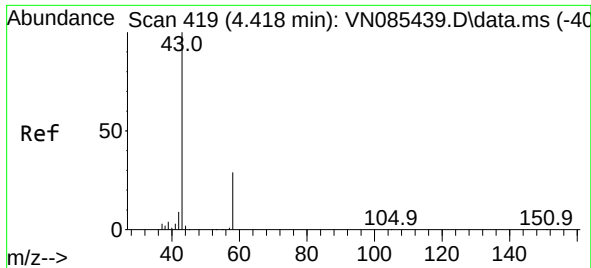
Tgt Ion:168 Resp: 155603
Ion Ratio Lower Upper
168 100
99 64.8 53.6 80.4



#11
Tert butyl alcohol
Concen: 0.480 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 59 Resp: 138
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

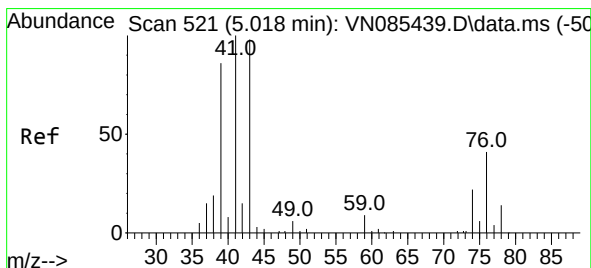
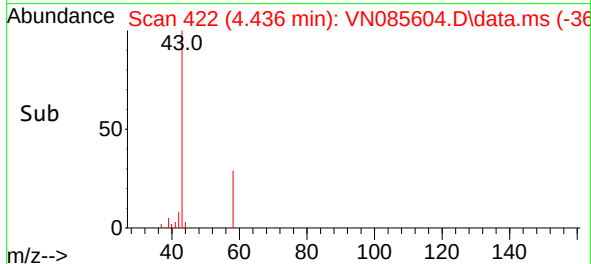
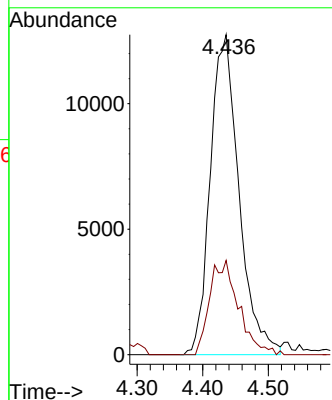
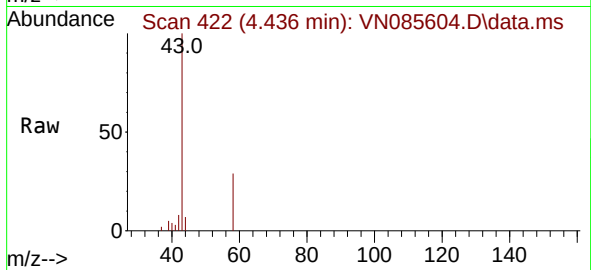




#16
Acetone
Concen: 47.712 ug/l
RT: 4.436 min Scan# 419
Delta R.T. 0.018 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

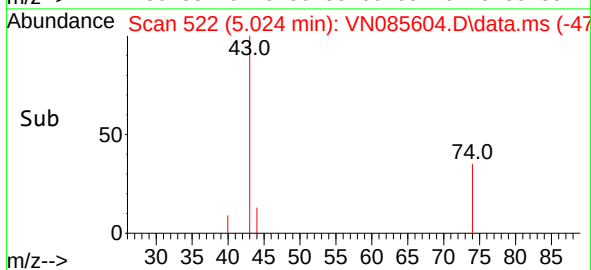
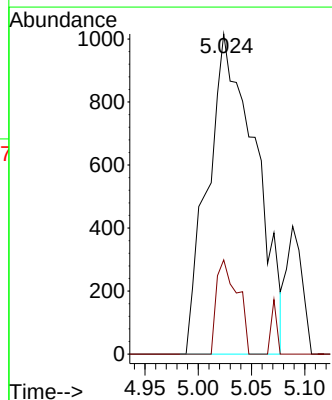
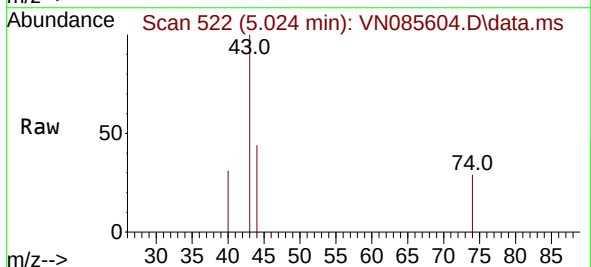
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

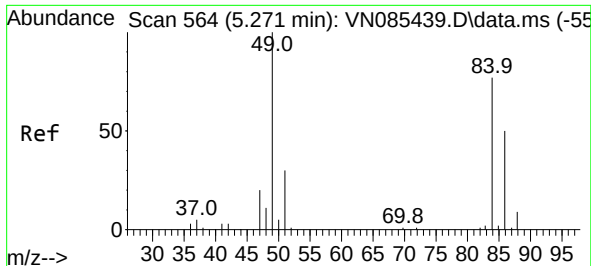
Tgt Ion: 43 Resp: 38722
Ion Ratio Lower Upper
43 100
58 29.4 23.8 35.6



#18
Methyl Acetate
Concen: 1.281 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 43 Resp: 3162
Ion Ratio Lower Upper
43 100
74 13.0 18.6 28.0#

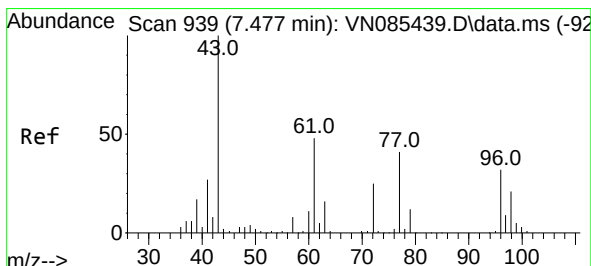
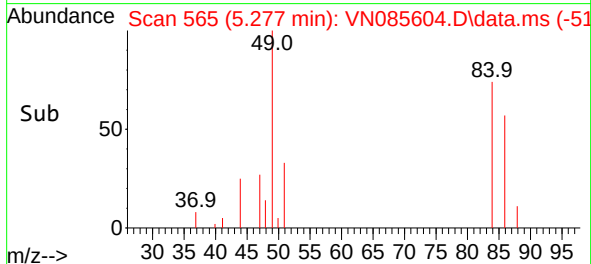
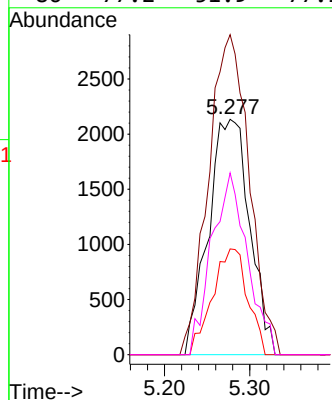
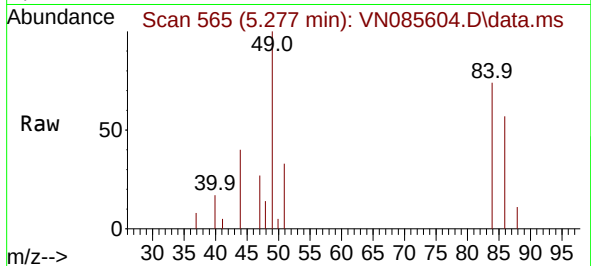




#20
Methylene Chloride
Concen: 3.580 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

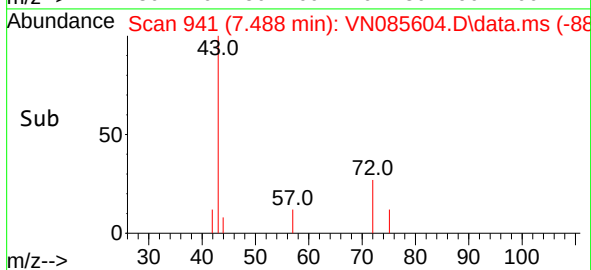
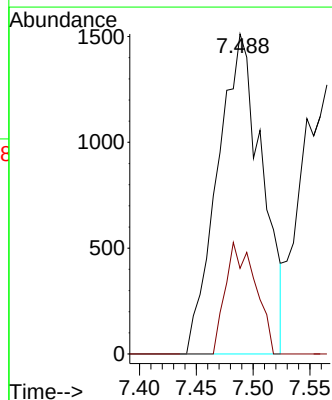
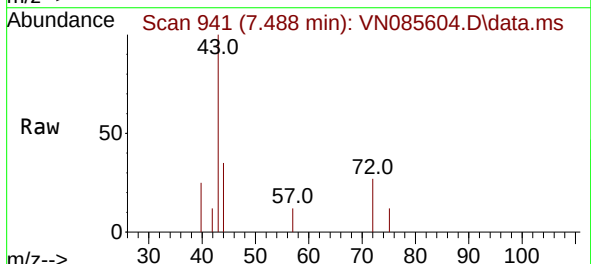
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

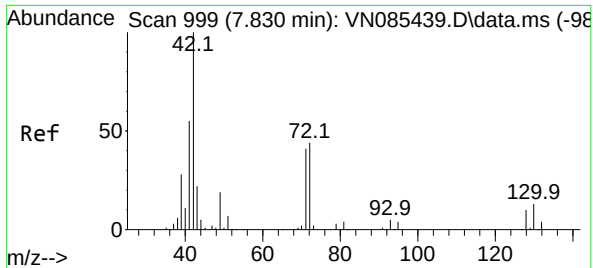
Tgt Ion:	84	Resp:	7192
Ion	Ratio	Lower	Upper
84	100		
49	135.9	104.1	156.1
51	44.9	31.0	46.4
86	77.2	51.9	77.9



#25
2-Butanone
Concen: 3.459 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion:	43	Resp:	4131
Ion	Ratio	Lower	Upper
43	100		
72	26.8	20.2	30.4

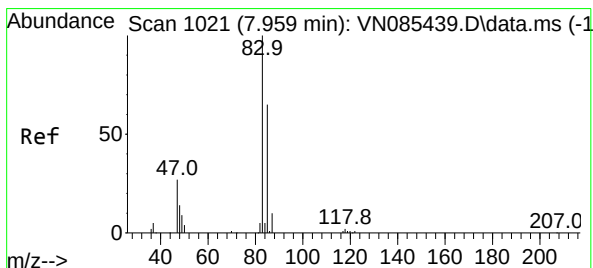
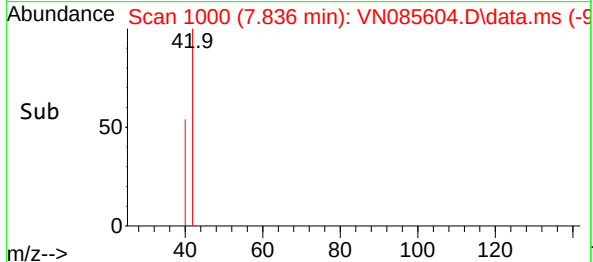
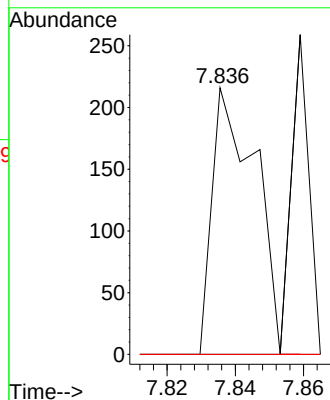
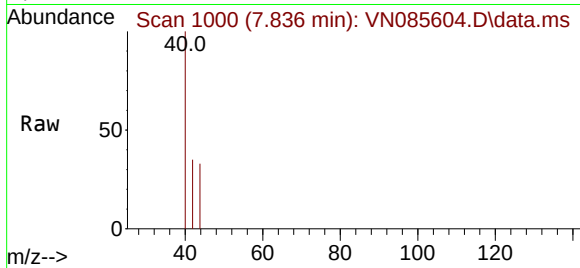




#29
Tetrahydrofuran
Concen: 0.251 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

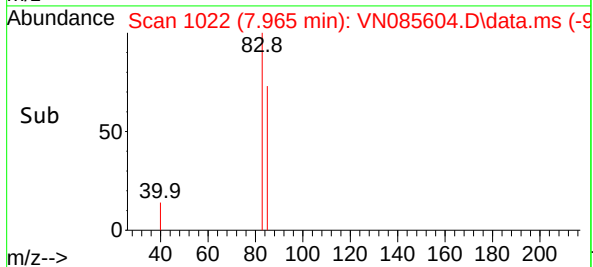
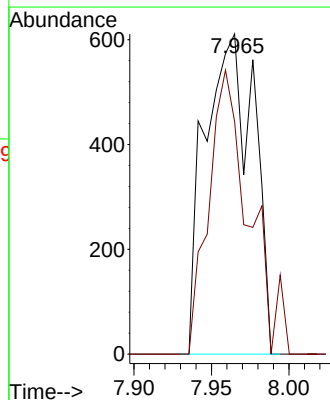
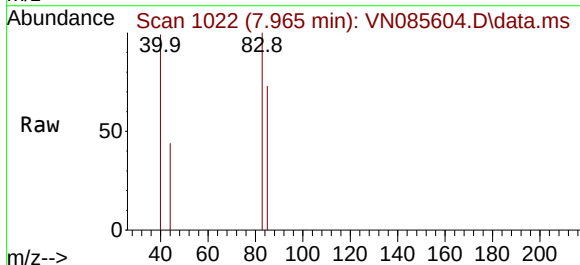
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

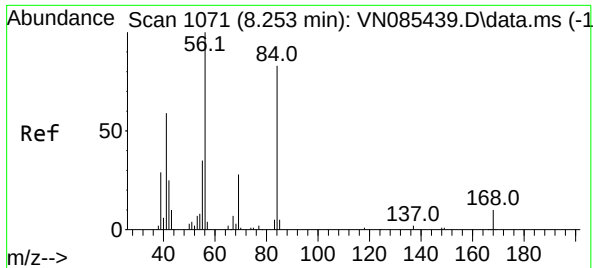
Tgt Ion: 42 Resp: 190
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#



#30
Chloroform
Concen: 0.350 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 83 Resp: 1328
Ion Ratio Lower Upper
83 100
85 72.7 51.8 77.6

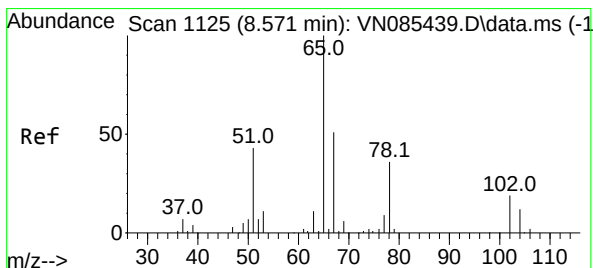
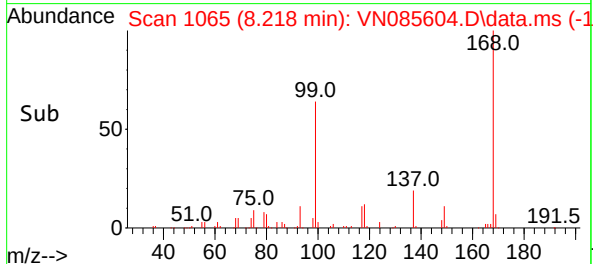
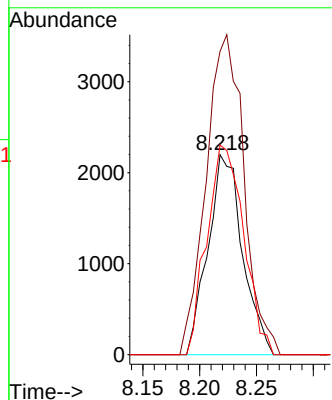
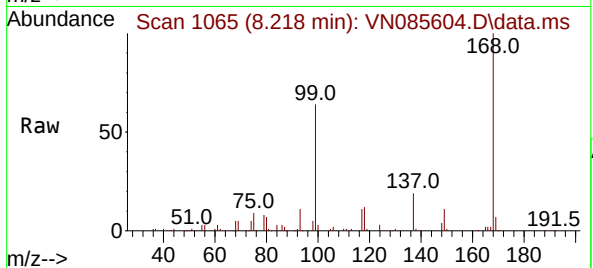




#31
Cyclohexane
Concen: 1.458 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

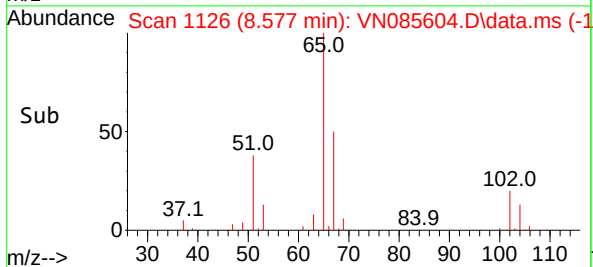
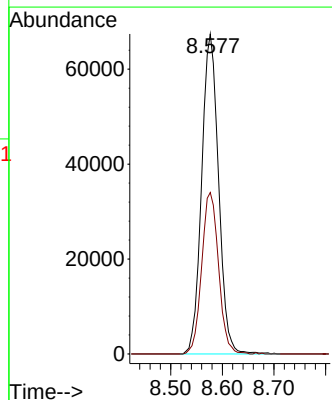
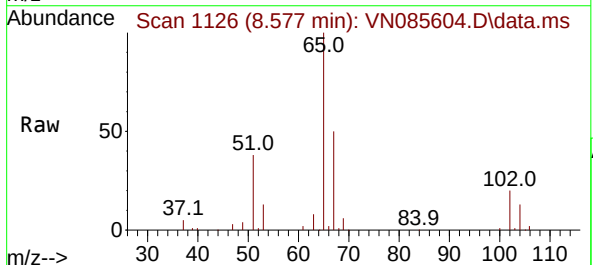
Instrument :
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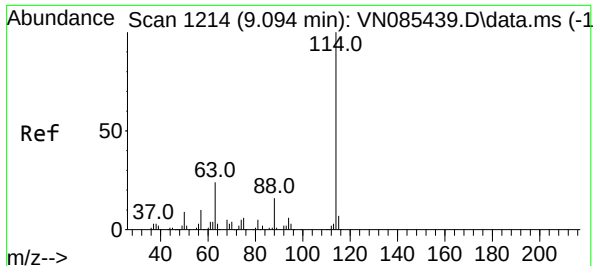
Tgt Ion: 56 Resp: 4647
Ion Ratio Lower Upper
56 100
69 151.6 22.2 33.4#
84 104.8 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 61.014 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 65 Resp: 153253
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085604.D

Acq: 31 Jan 2025 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB166357ZHE#09

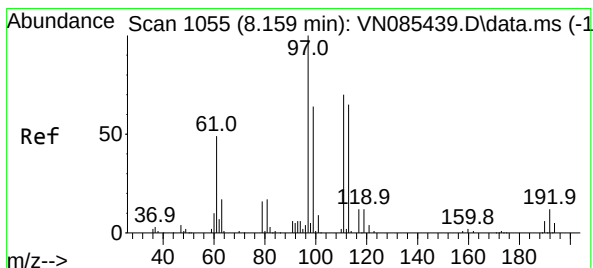
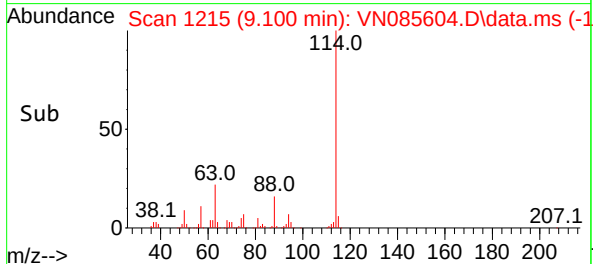
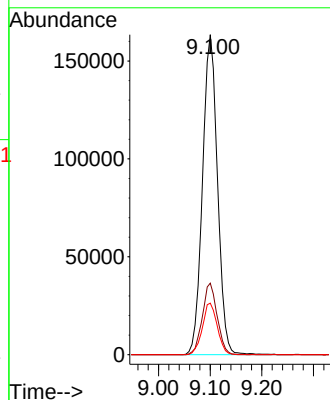
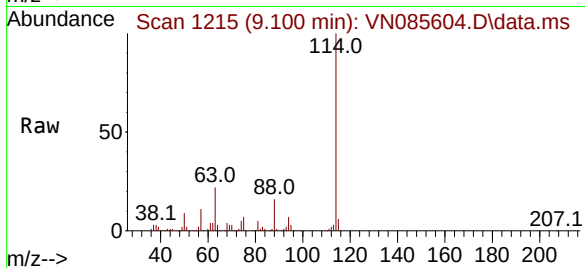
Tgt Ion:114 Resp: 329201

Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

88 16.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.045 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085604.D

Acq: 31 Jan 2025 16:04

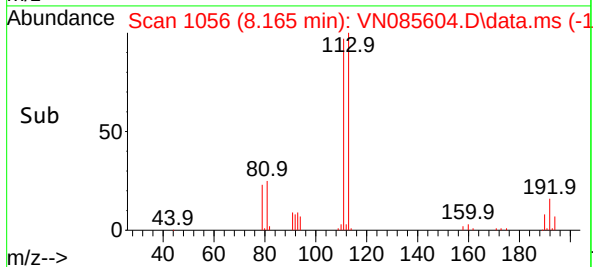
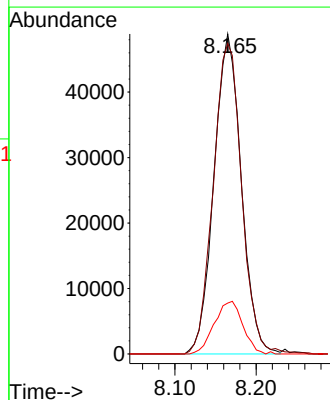
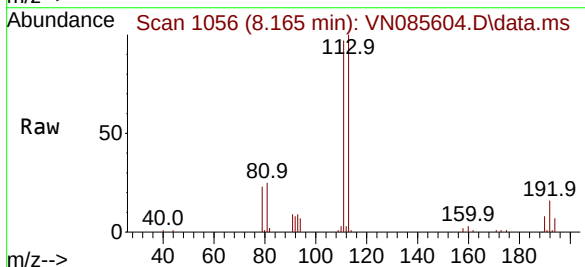
Tgt Ion:113 Resp: 114296

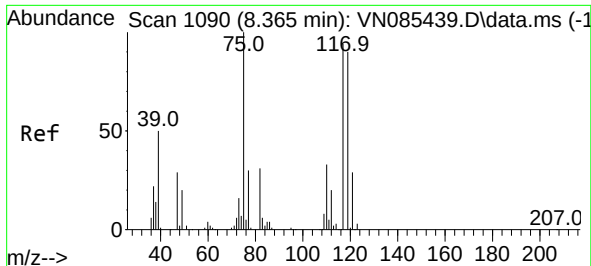
Ion Ratio Lower Upper

113 100

111 100.9 82.7 124.1

192 17.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.690 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN085604.D

Acq: 31 Jan 2025 16:04

Instrument :

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PB166357ZHE#09

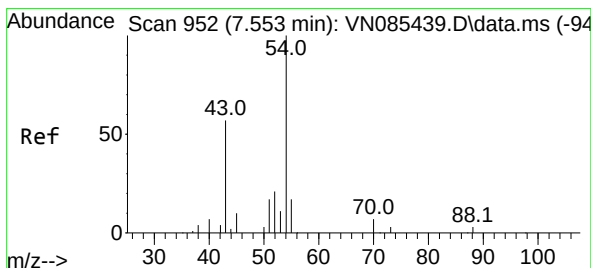
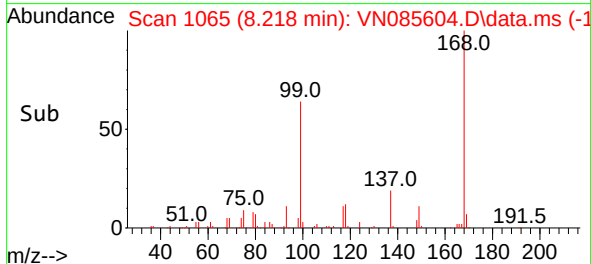
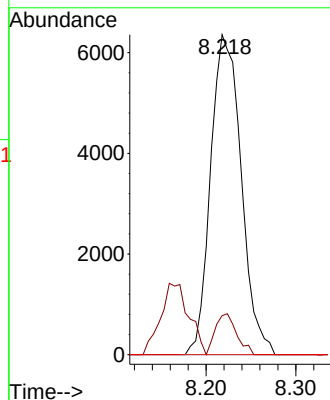
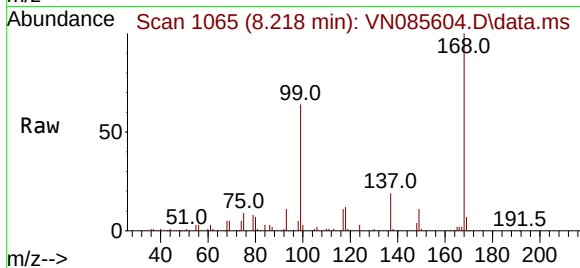
Tgt Ion: 75 Resp: 15034

Ion Ratio Lower Upper

75 100

110 8.9 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 1.011 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN085604.D

Acq: 31 Jan 2025 16:04

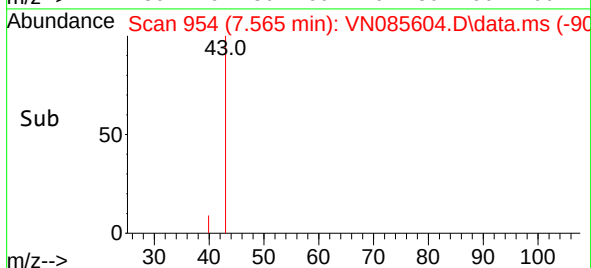
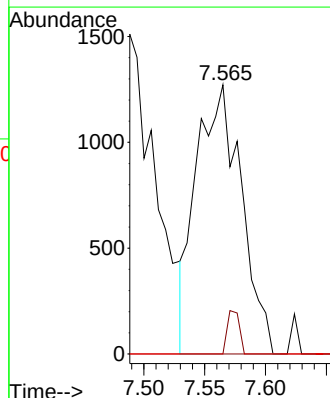
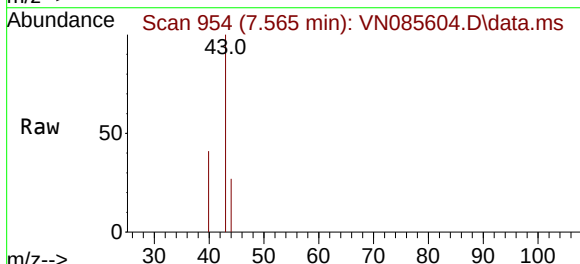
Tgt Ion: 43 Resp: 3271

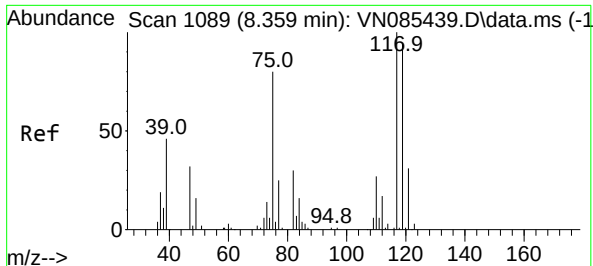
Ion Ratio Lower Upper

43 100

61 4.3 10.9 16.3#

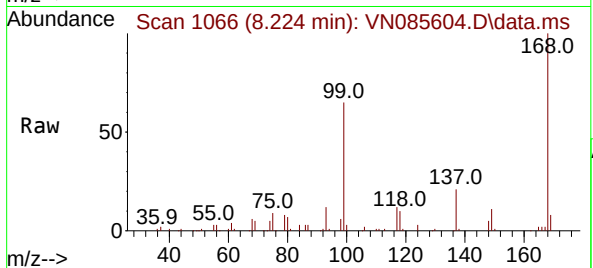
70 0.0 7.5 11.3#



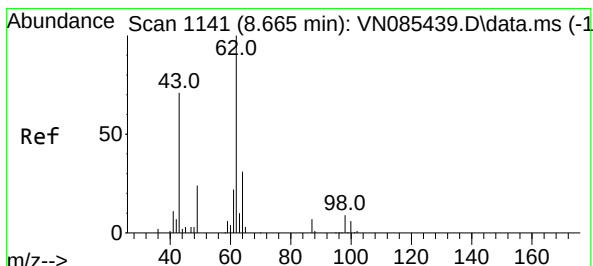
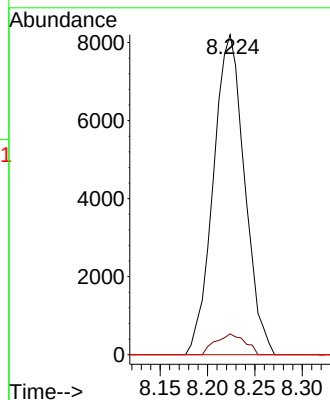
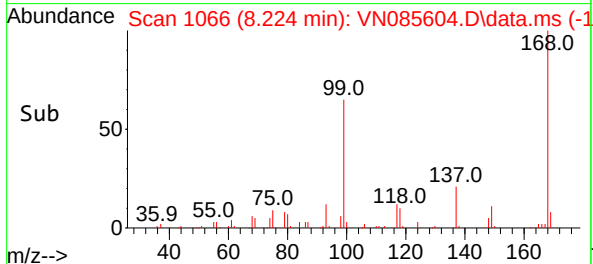


#38
Carbon Tetrachloride
Concen: 5.141 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

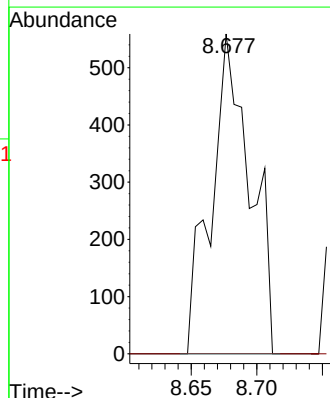
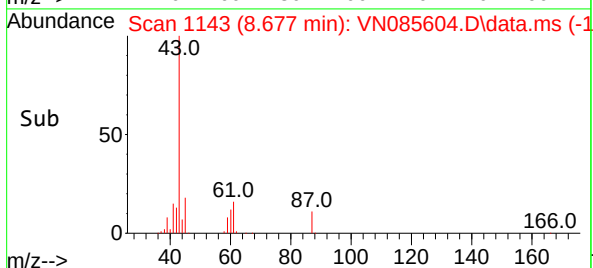
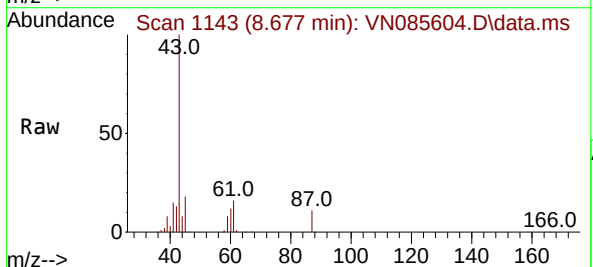


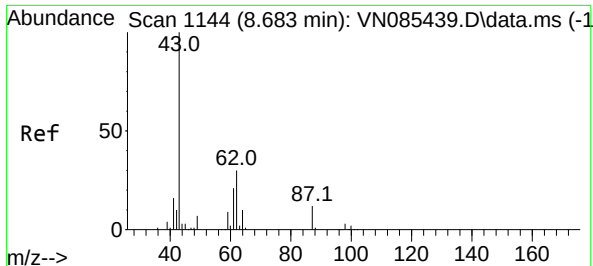
Tgt Ion:117 Resp: 18867
Ion Ratio Lower Upper
117 100
119 6.5 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.320 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.012 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

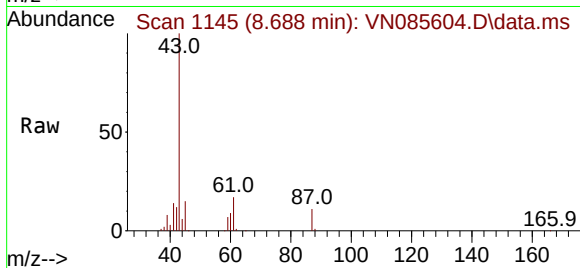
Tgt Ion: 62 Resp: 1160
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0



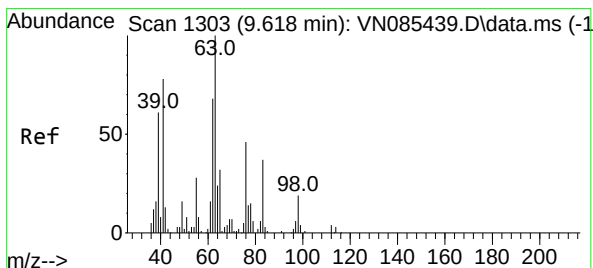
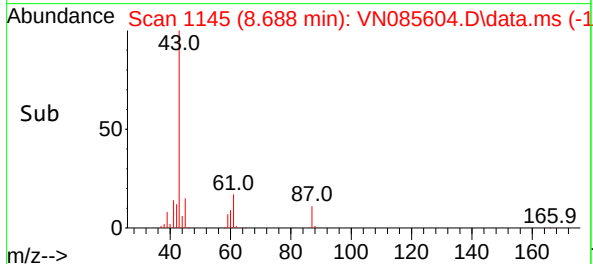
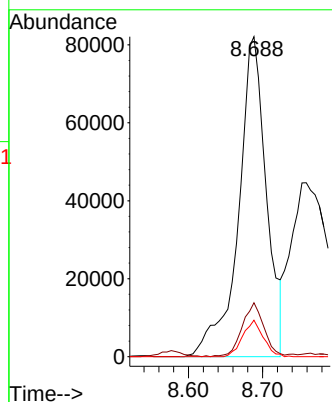


#43
Isopropyl Acetate
Concen: 41.563 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

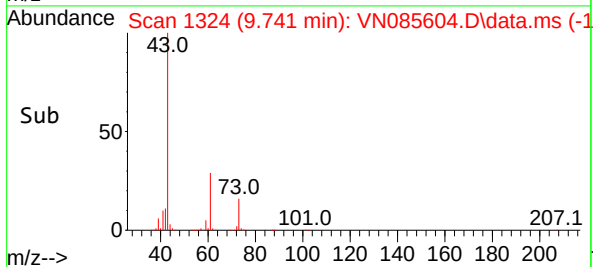
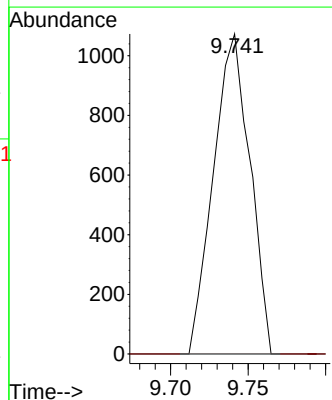
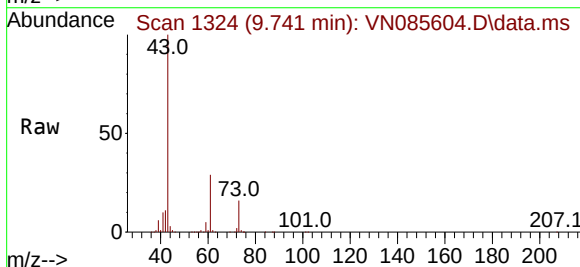


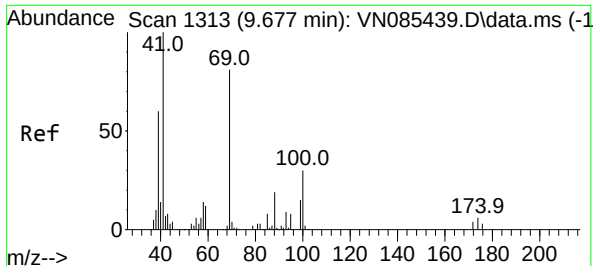
Tgt Ion: 43 Resp: 215468
Ion Ratio Lower Upper
43 100
61 13.2 20.7 31.1#
87 8.4 9.8 14.8#



#45
1,2-Dichloropropane
Concen: 0.715 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 63 Resp: 1759
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

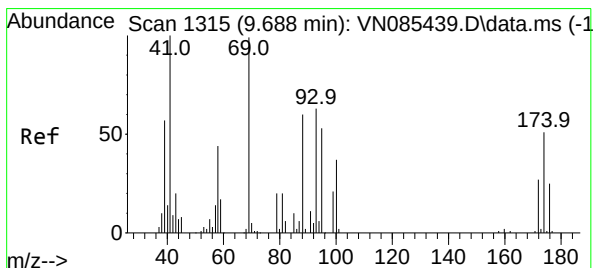
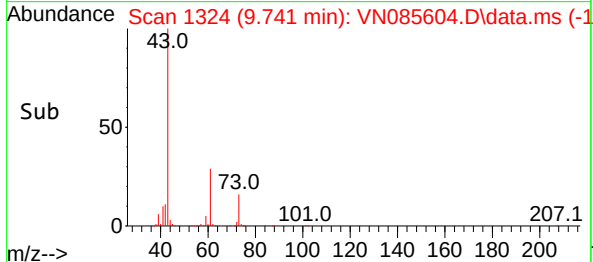
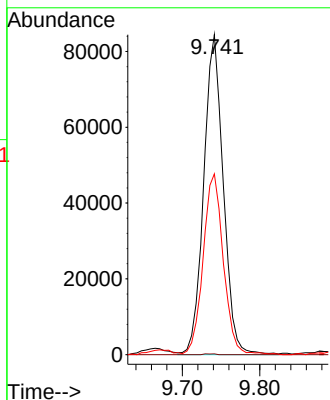
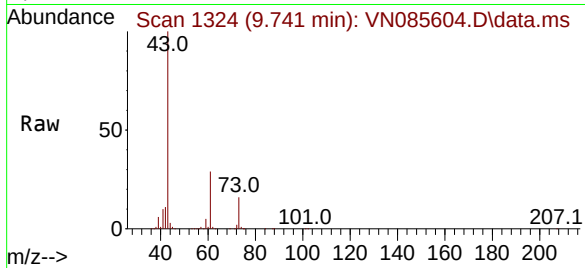




#48
Methyl methacrylate
Concen: 63.533 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.064 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

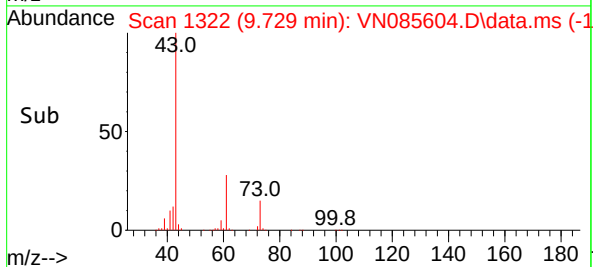
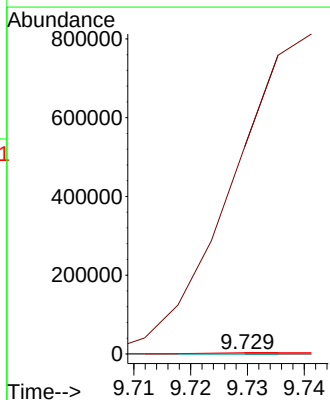
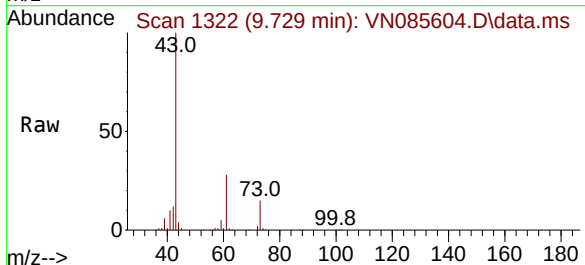
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

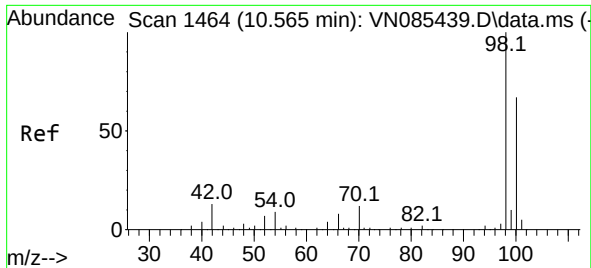
Tgt Ion: 41 Resp: 148220
Ion Ratio Lower Upper
41 100
69 0.1 64.7 97.1#
39 58.3 49.0 73.6



#49
1,4-Dioxane
Concen: 1.425 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.041 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 2570105.4 26.6 39.8#
58 13483.9 59.5 89.3#

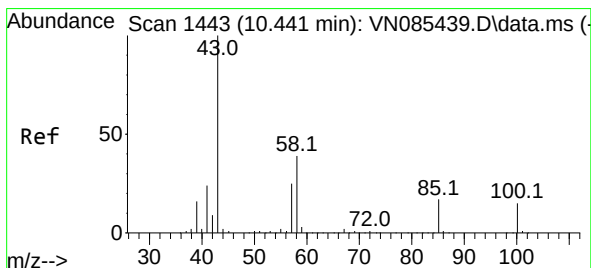
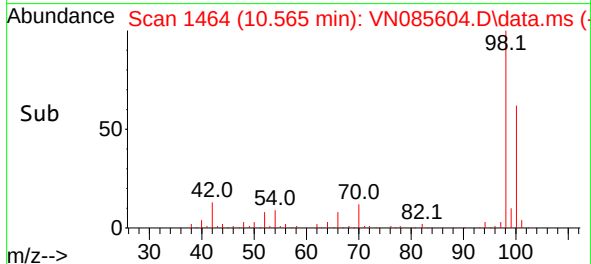
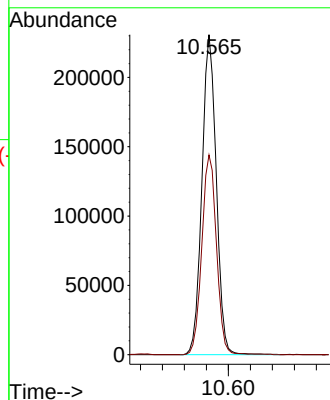
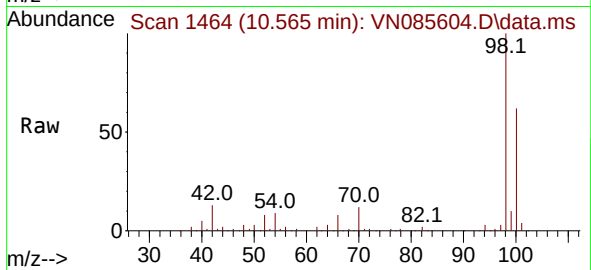




#50
Toluene-d8
Concen: 51.470 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

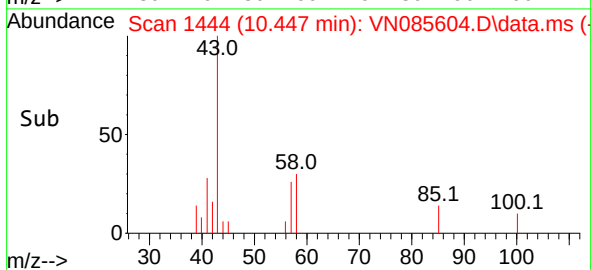
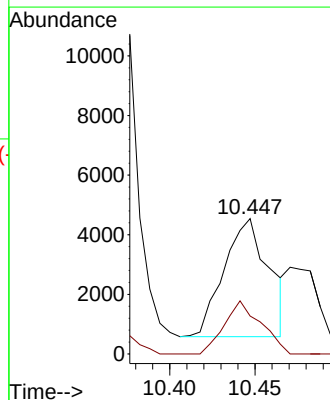
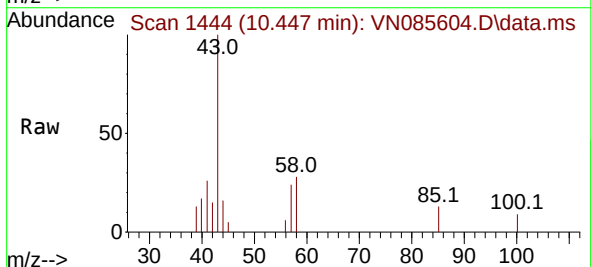
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

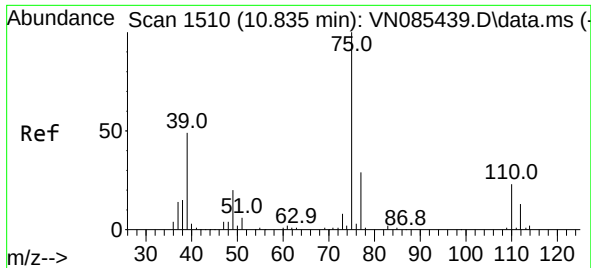
Tgt Ion: 98 Resp: 417653
Ion Ratio Lower Upper
98 100
100 63.9 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 2.401 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 43 Resp: 7222
Ion Ratio Lower Upper
43 100
58 37.1 30.5 45.7

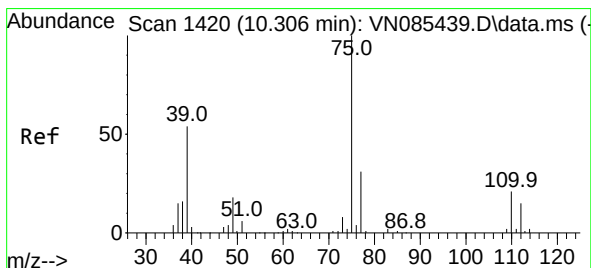
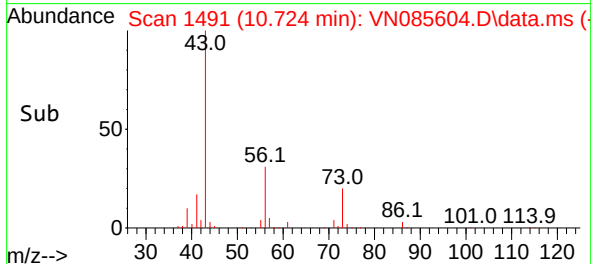
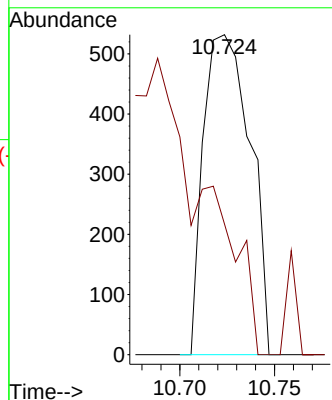
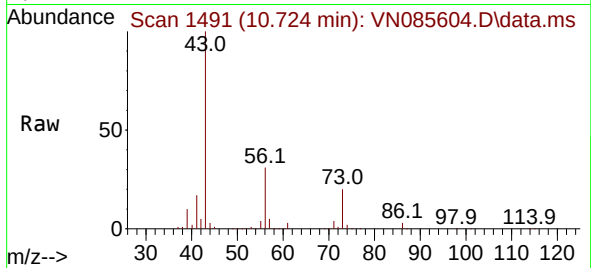




#53
 t-1,3-Dichloropropene
 Concen: 0.267 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.112 min
 Lab File: VN085604.D
 Acq: 31 Jan 2025 16:04

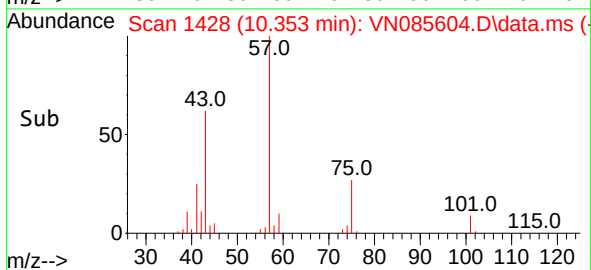
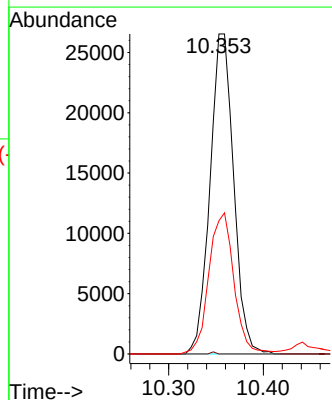
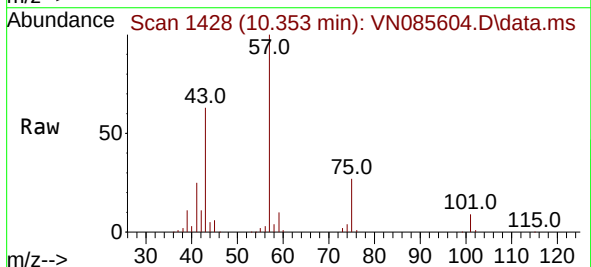
Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#09

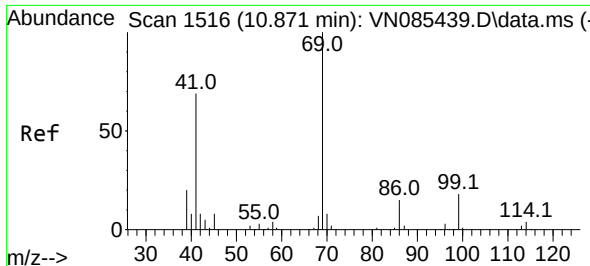
Tgt Ion: 75 Resp: 914
 Ion Ratio Lower Upper
 75 100
 77 40.8 23.5 35.3#



#54
 cis-1,3-Dichloropropene
 Concen: 12.638 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN085604.D
 Acq: 31 Jan 2025 16:04

Tgt Ion: 75 Resp: 46133
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 41.6 43.1 64.7#

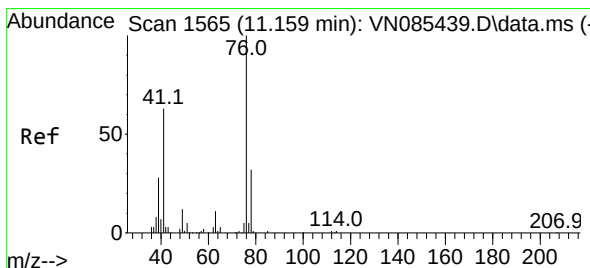
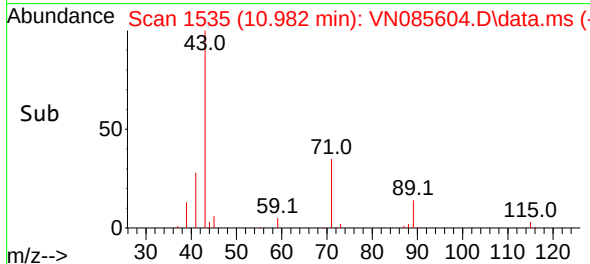
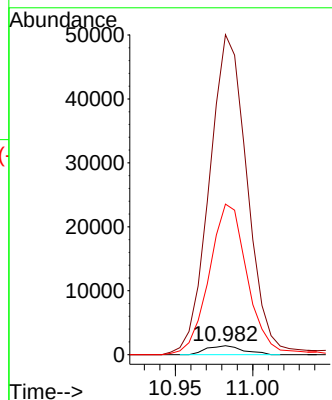
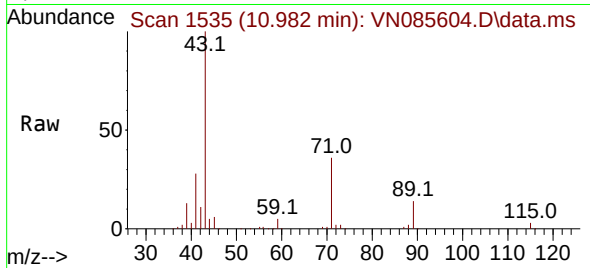




#56
Ethyl methacrylate
Concen: 2.528 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

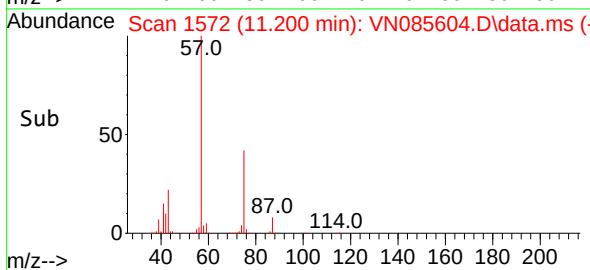
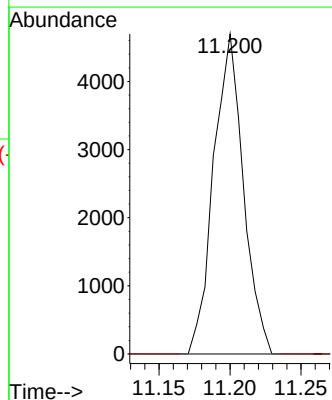
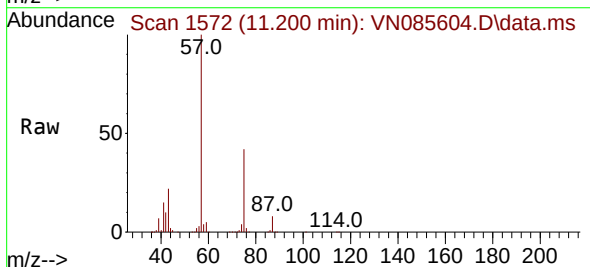
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

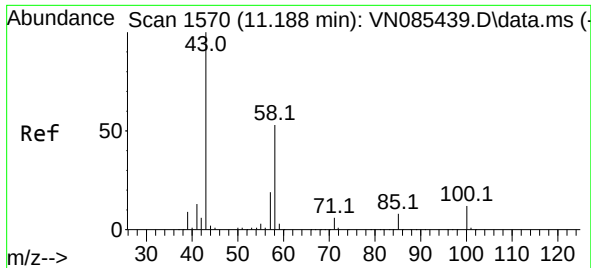
Tgt Ion: 69 Resp: 2308
Ion Ratio Lower Upper
69 100
41 3700.8 54.6 82.0#
39 1767.0 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.780 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 76 Resp: 6834
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

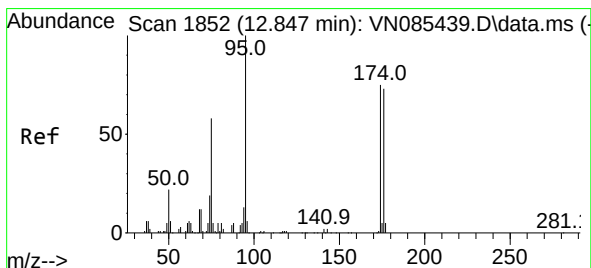
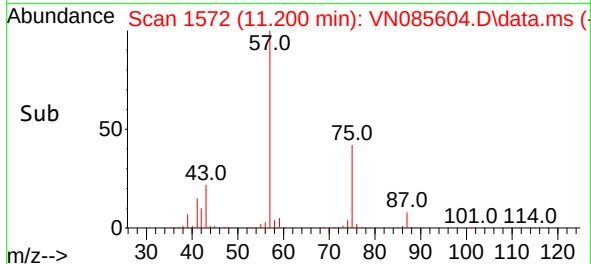
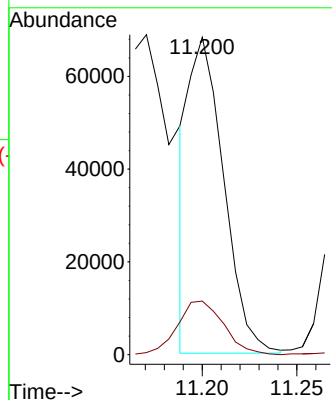
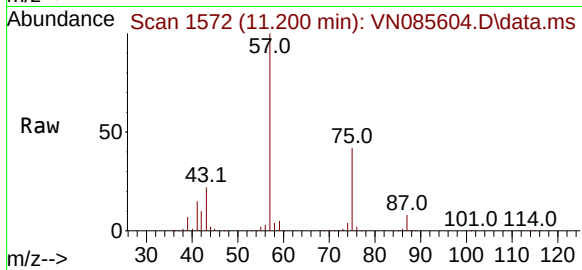




#59
2-Hexanone
Concen: 41.528 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

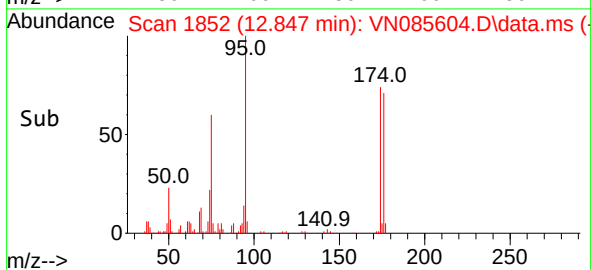
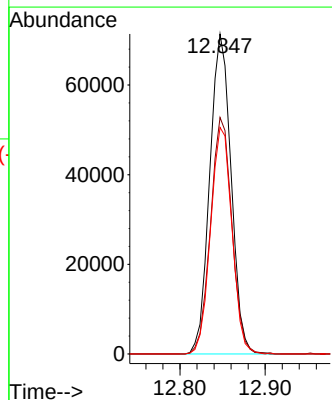
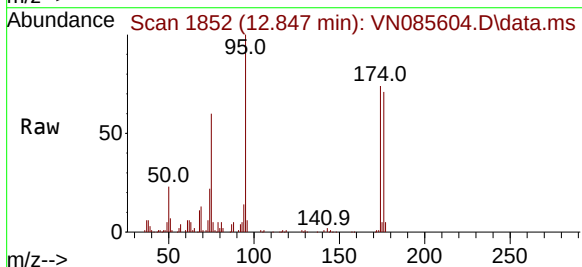
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

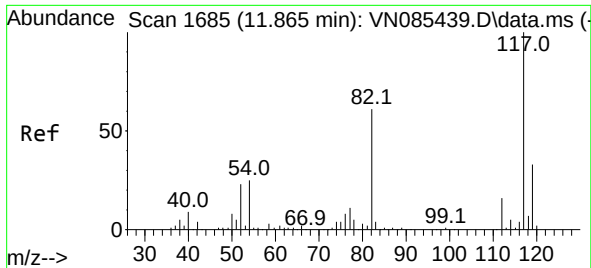
Tgt Ion: 43 Resp: 87903
Ion Ratio Lower Upper
43 100
58 22.4 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 44.654 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion: 95 Resp: 123948
Ion Ratio Lower Upper
95 100
174 74.2 0.0 145.0
176 70.9 0.0 142.4

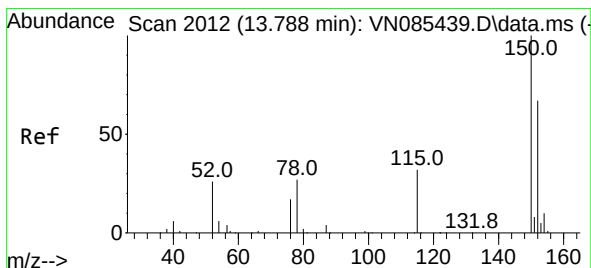
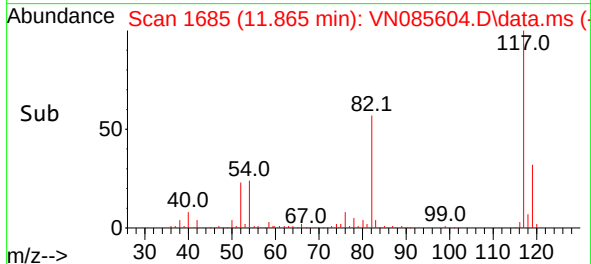
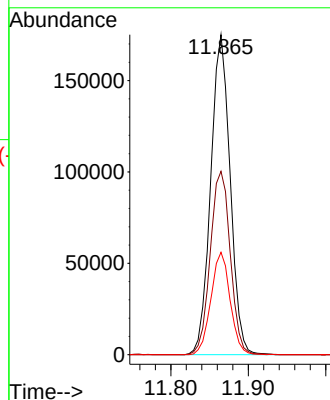
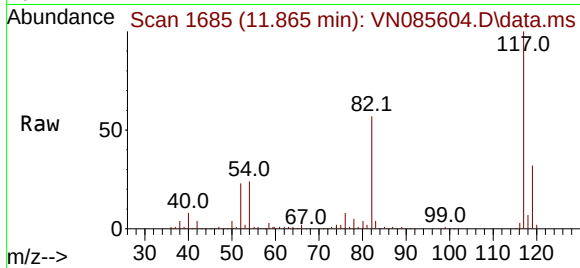




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

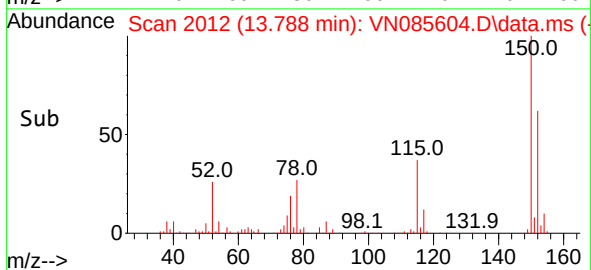
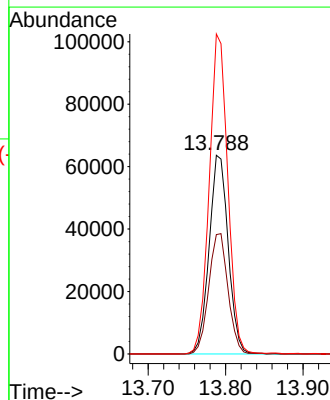
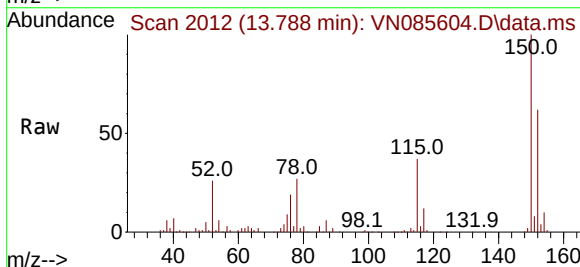
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

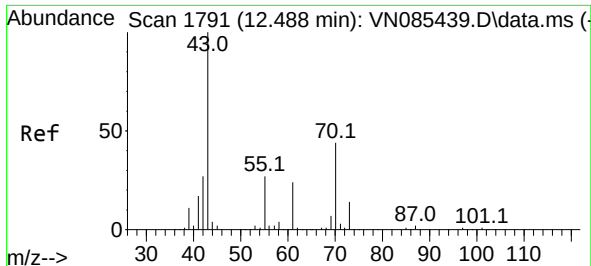
Tgt Ion:117 Resp: 306076
Ion Ratio Lower Upper
117 100
82 57.3 48.6 72.8
119 32.0 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

Tgt Ion:152 Resp: 108784
Ion Ratio Lower Upper
152 100
115 61.3 31.1 93.3
150 156.2 0.0 343.6

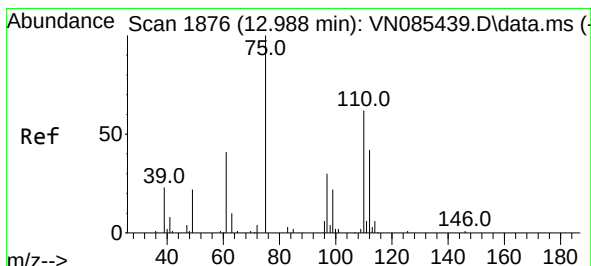
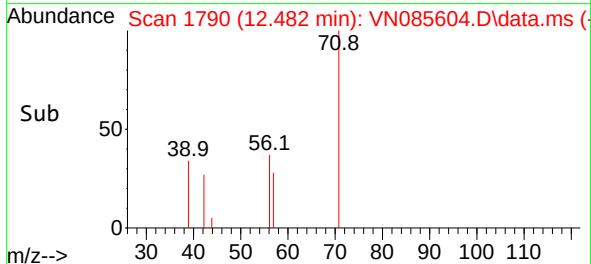
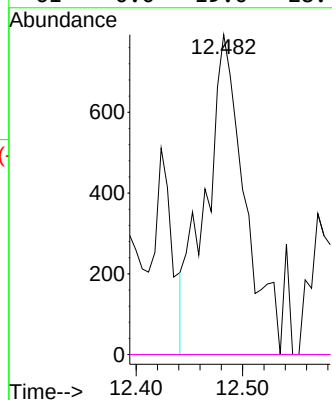
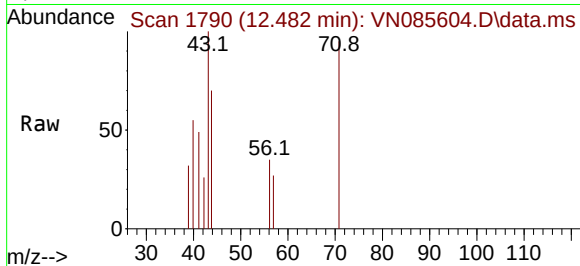




#74
N-amy1 acetate
Concen: 0.613 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

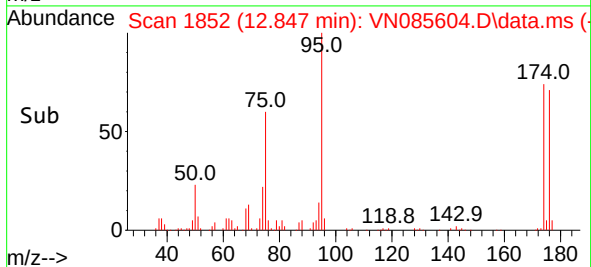
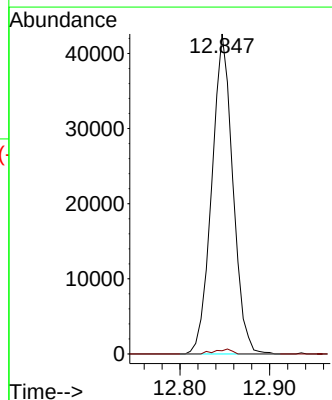
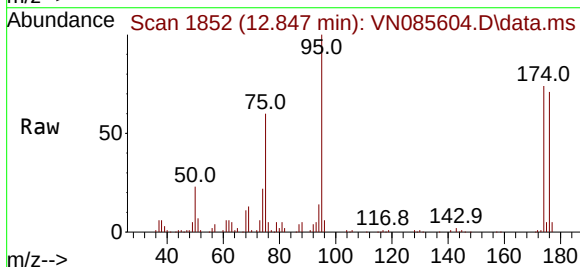
Instrument :
MSVOA_N
ClientSampleId :
PB166357ZHE#09

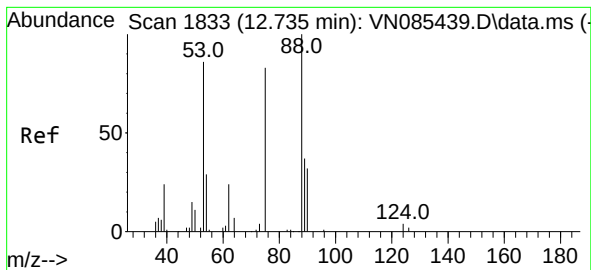
Tgt Ion: 43	Resp: 2023
Ion Ratio	Lower Upper
43 100	
70 0.0	34.0 51.0#
55 0.0	21.4 32.2#
61 0.0	19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.409 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085604.D
Acq: 31 Jan 2025 16:04

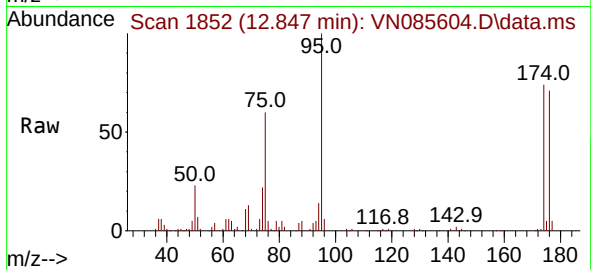
Tgt Ion: 75	Resp: 69448
Ion Ratio	Lower Upper
75 100	
77 1.2	109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 84.980 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085604.D
 Acq: 31 Jan 2025 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166357ZHE#09



Tgt Ion: 75 Resp: 69448
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 37.0 55.6#

