

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088517.D
 Acq On : 16 Dec 2025 11:03
 Operator : JC\MD
 Sample : VN1216MBL01
 Misc : 5.00g/10.0mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBL01

Quant Time: Dec 17 01:36:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

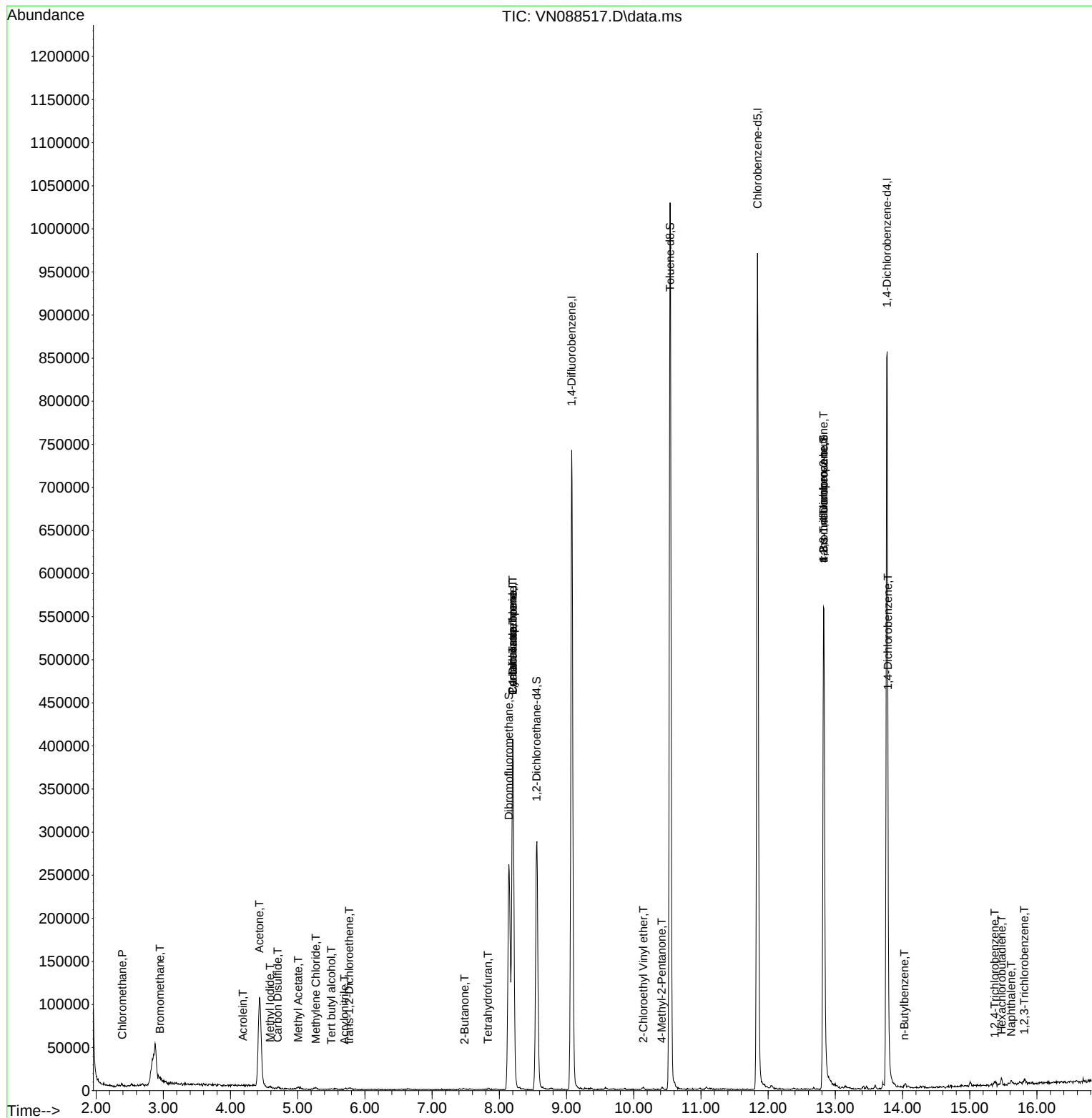
Internal Standards						
1) Pentafluorobenzene	8.200	168	274477	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	607567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	547726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	244367	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	255888	49.489	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	98.980%	
35) Dibromofluoromethane	8.141	113	196123	46.580	ug/l	-0.01
Spiked Amount	50.000	Range 75 - 124	Recovery	=	93.160%	
50) Toluene-d8	10.541	98	688544	43.951	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	87.900%	
62) 4-Bromofluorobenzene	12.824	95	227342	42.294	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	84.580%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	4402	0.994	ug/l #	82
5) Bromomethane	2.948	94	3849	1.775	ug/l	90
10) Methyl Iodide	4.589	142	4392	1.316	ug/l #	89
11) Tert butyl alcohol	5.500	59	379	0.459	ug/l #	72
13) Acrolein	4.183	56	447	0.566	ug/l #	43
15) Acrylonitrile	5.695	53	1404	0.589	ug/l #	19
16) Acetone	4.430	43	8646	4.624	ug/l	98
17) Carbon Disulfide	4.701	76	2847	0.260	ug/l #	76
18) Methyl Acetate	5.006	43	4136	0.743	ug/l #	79
20) Methylene Chloride	5.271	84	918	0.229	ug/l #	42
21) trans-1,2-Dichloroethene	5.765	96	880	0.237	ug/l #	81
25) 2-Butanone	7.483	43	1150	0.383	ug/l #	49
29) Tetrahydrofuran	7.830	42	1101	0.511	ug/l #	56
31) Cyclohexane	8.200	56	8858	1.303	ug/l #	1
36) 1,1-Dichloropropene	8.200	75	26495	4.077	ug/l #	52
38) Carbon Tetrachloride	8.200	117	32775	5.067	ug/l #	14
51) 4-Methyl-2-Pentanone	10.418	43	2563	0.333	ug/l #	83
58) 2-Chloroethyl Vinyl ether	10.141	63	1133	0.292	ug/l #	84
76) 1,2,3-Trichloropropane	12.824	75	124113	21.685	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.824	75	124113	61.518	ug/l #	1
88) 1,4-Dichlorobenzene	13.782	146	1826	0.217	ug/l #	1
89) n-Butylbenzene	14.029	91	3610	0.248	ug/l	94
93) 1,2,4-Trichlorobenzene	15.370	180	1800	0.400	ug/l #	87
94) Hexachlorobutadiene	15.476	225	1366	0.845	ug/l	93
95) Naphthalene	15.617	128	4945	0.317	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.812	180	1905	0.435	ug/l #	74

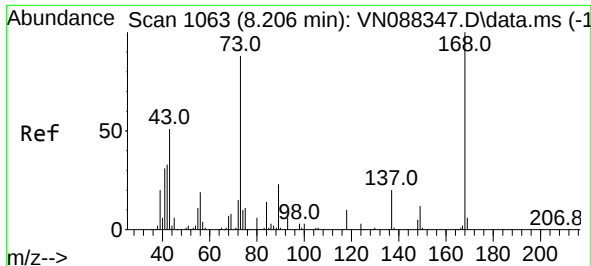
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
Data File : VN088517.D
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Sample : VN1216MBL01
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Instrument :
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Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

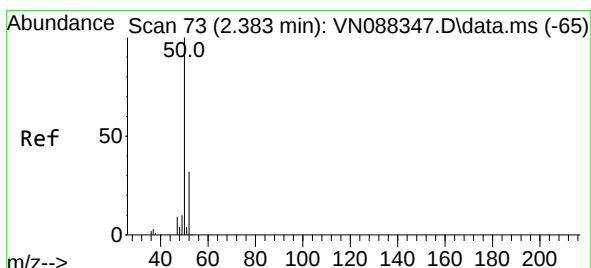
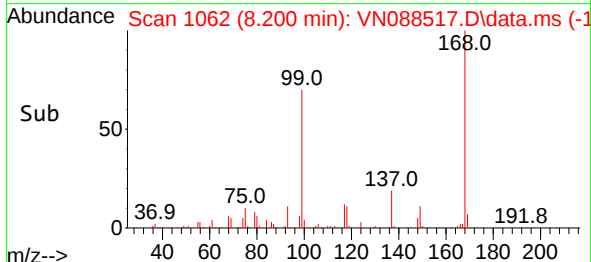
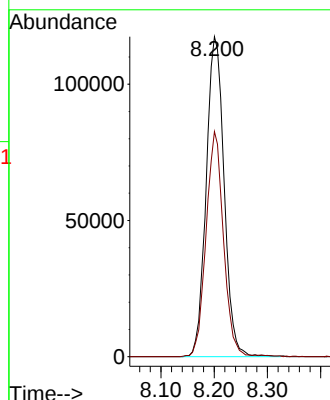
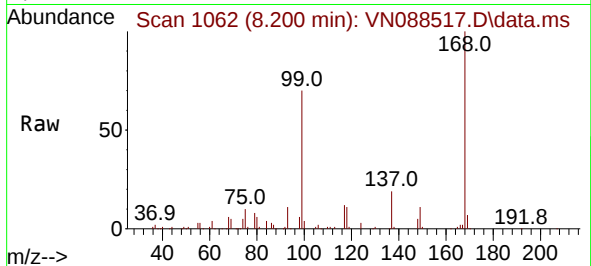




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

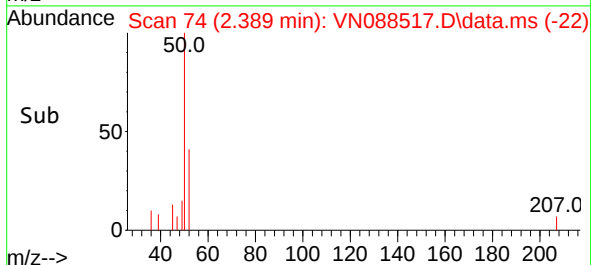
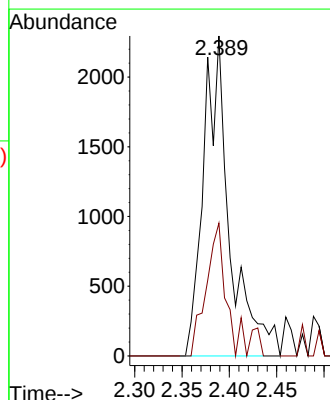
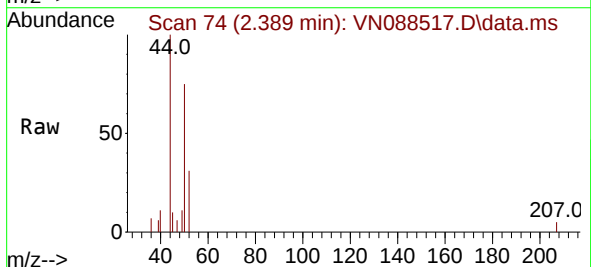
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

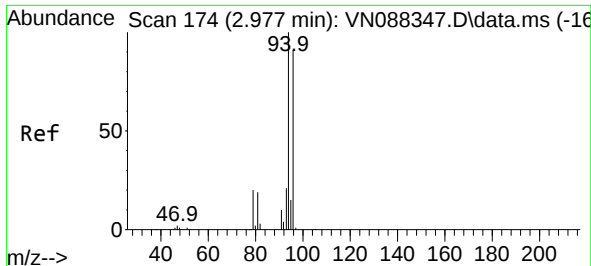
Tgt Ion:168 Resp: 274477
Ion Ratio Lower Upper
168 100
99 70.3 57.1 85.7



#3
Chloromethane
Concen: 0.994 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 50 Resp: 4402
Ion Ratio Lower Upper
50 100
52 41.5 25.2 37.8#

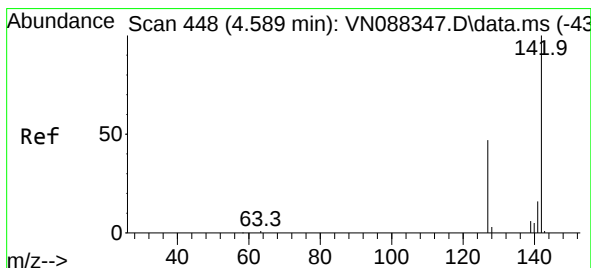
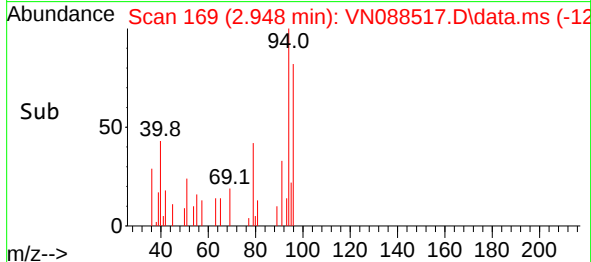
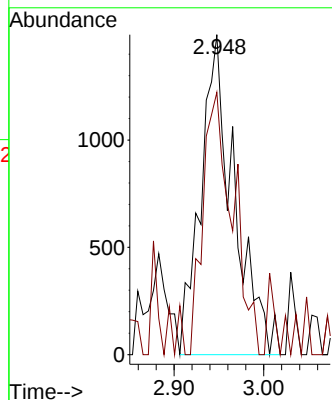
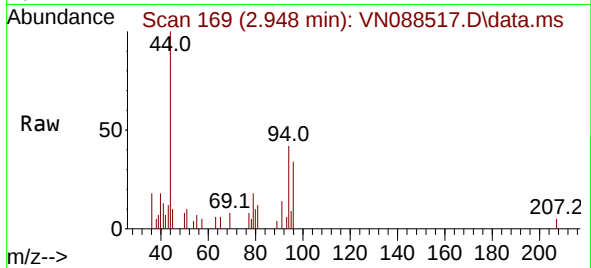




#5
Bromomethane
Concen: 1.775 ug/l
RT: 2.948 min Scan# 169
Delta R.T. -0.029 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

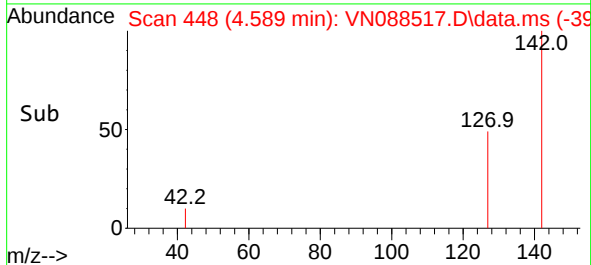
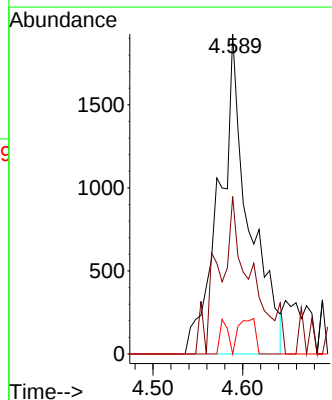
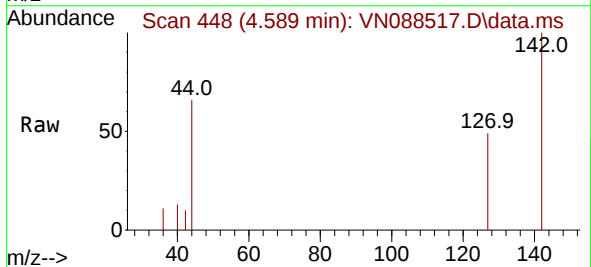
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

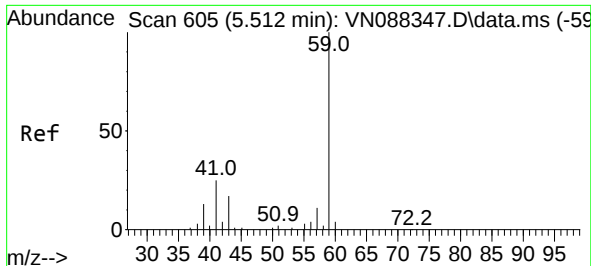
Tgt Ion: 94 Resp: 3849
Ion Ratio Lower Upper
94 100
96 82.0 73.2 109.8



#10
Methyl Iodide
Concen: 1.316 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 142 Resp: 4392
Ion Ratio Lower Upper
142 100
127 49.2 37.9 56.9
141 0.0 12.4 18.6#

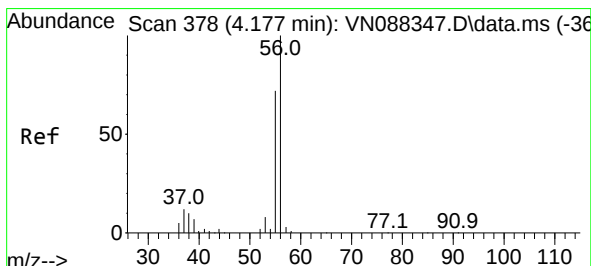
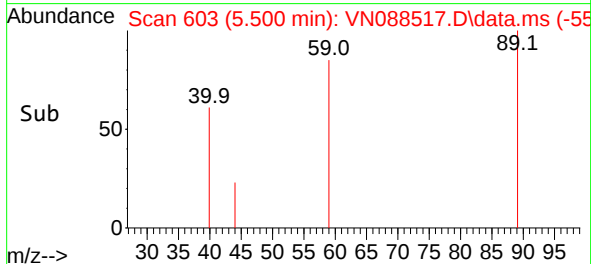
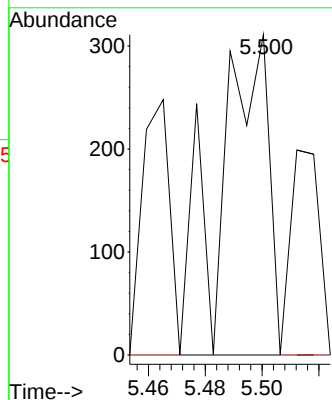
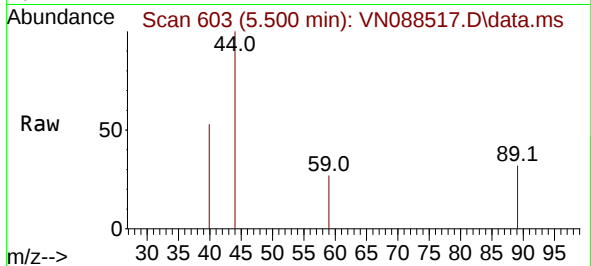




#11
Tert butyl alcohol
Concen: 0.459 ug/l
RT: 5.500 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

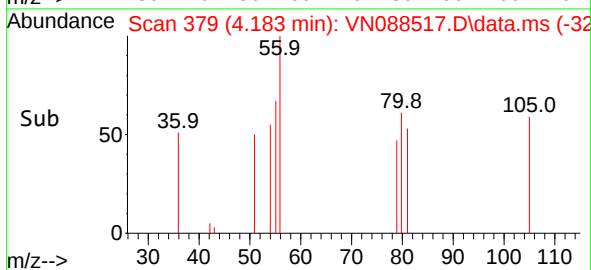
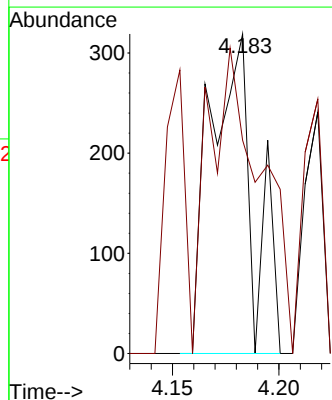
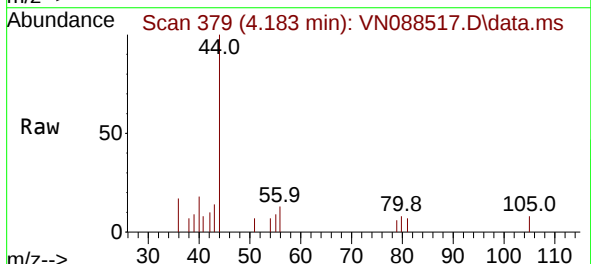
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

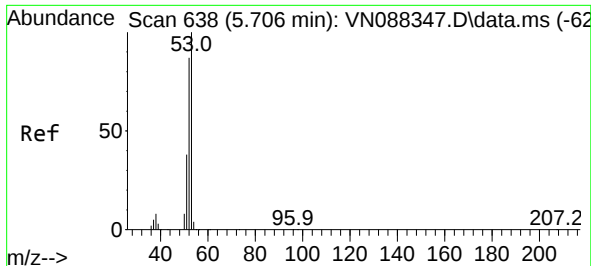
Tgt Ion: 59 Resp: 379
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.566 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 56 Resp: 447
Ion Ratio Lower Upper
56 100
55 117.4 56.3 84.5#

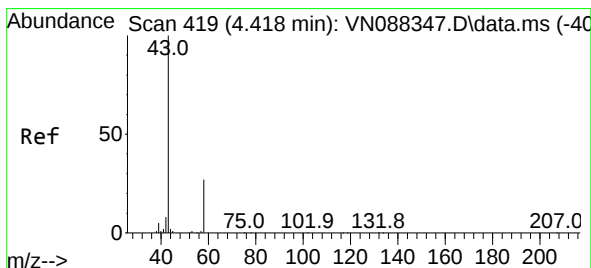
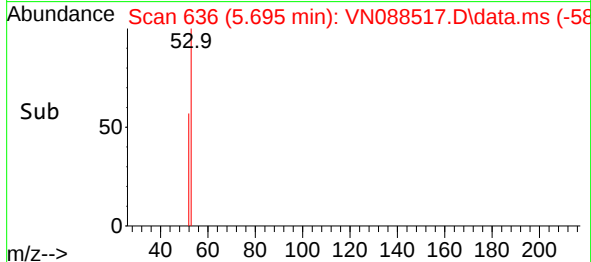
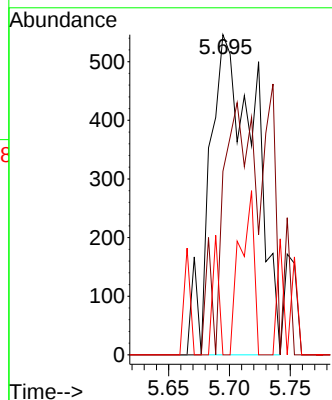
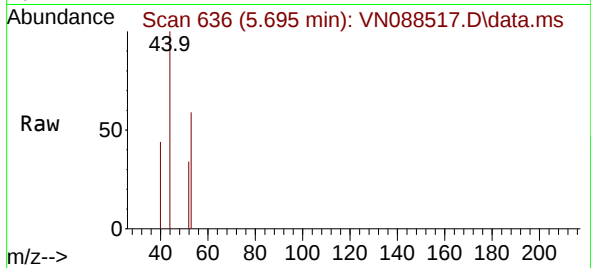




#15
Acrylonitrile
Concen: 0.589 ug/l
RT: 5.695 min Scan# 61
Delta R.T. -0.012 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

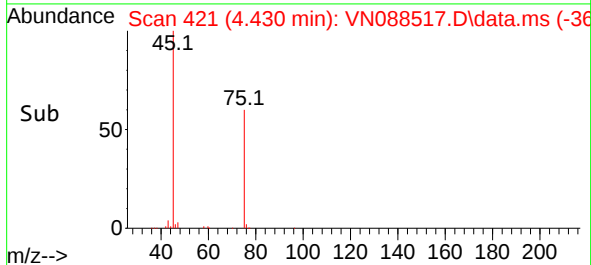
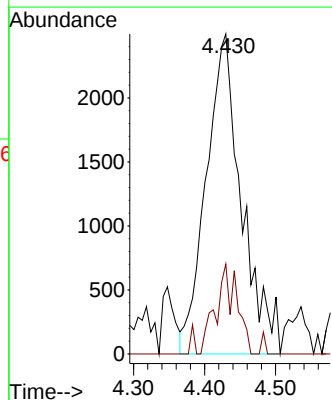
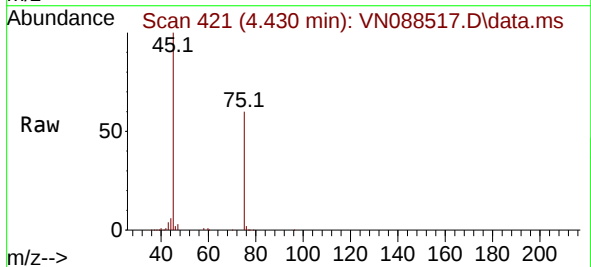
Instrument :
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ClientSampleId :
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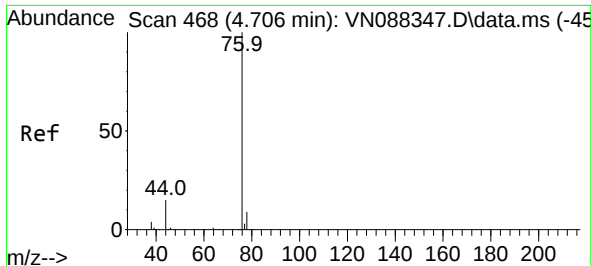
Tgt Ion: 53 Resp: 1404
Ion Ratio Lower Upper
53 100
52 0.0 67.8 101.6#
51 5.1 29.8 44.8#



#16
Acetone
Concen: 4.624 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 43 Resp: 8646
Ion Ratio Lower Upper
43 100
58 28.1 21.7 32.5

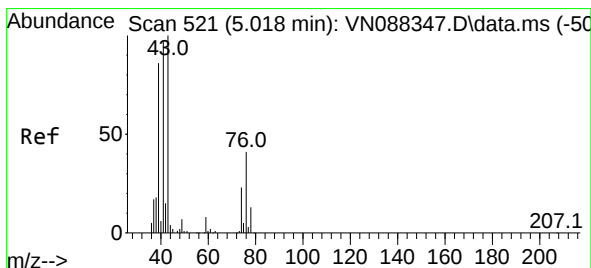
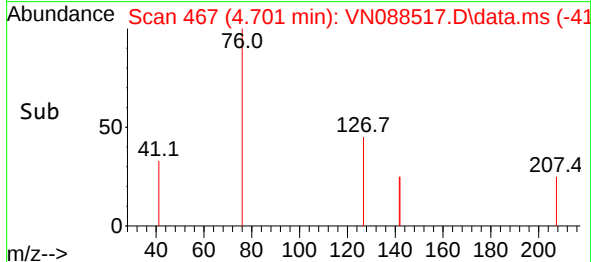
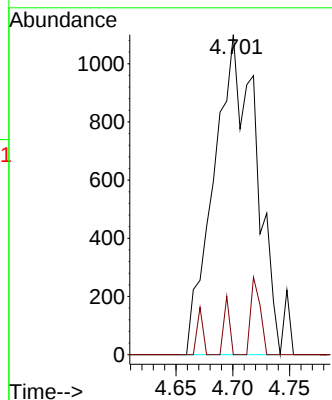
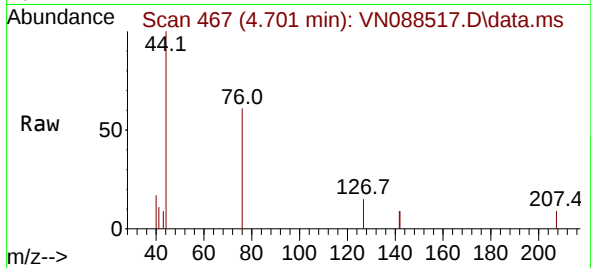




#17
Carbon Disulfide
Concen: 0.260 ug/l
RT: 4.701 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

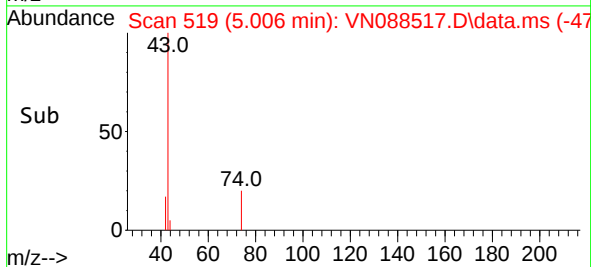
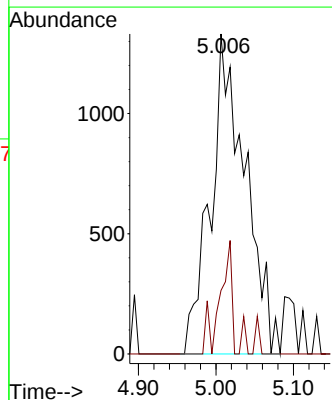
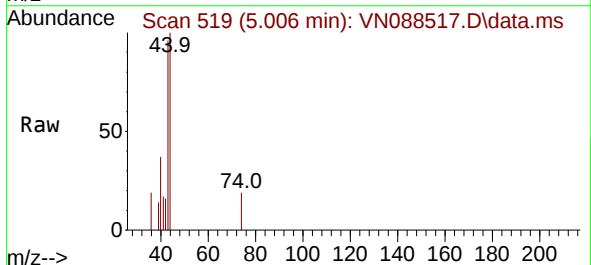
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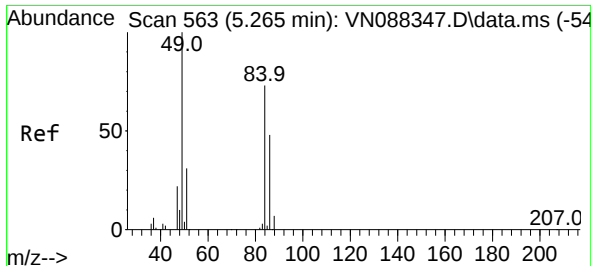
Tgt Ion: 76 Resp: 2847
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 0.743 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.012 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

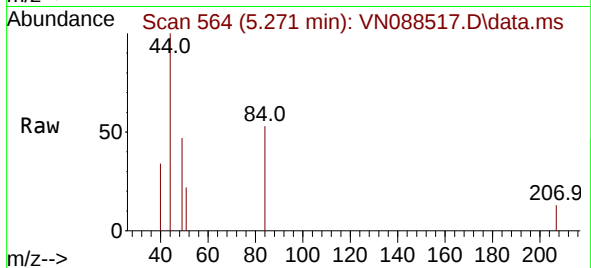
Tgt Ion: 43 Resp: 4136
Ion Ratio Lower Upper
43 100
74 12.2 17.9 26.9#



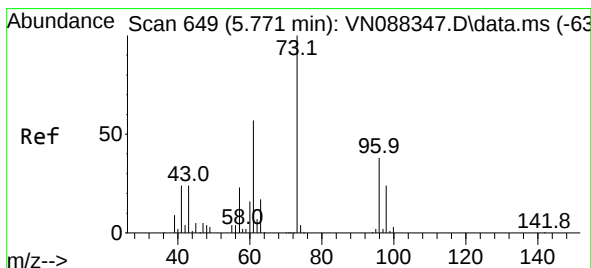
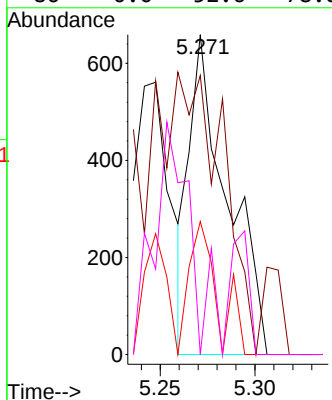
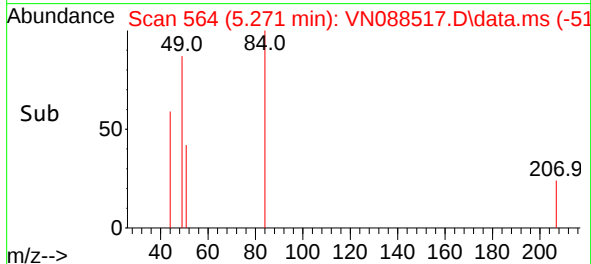


#20
Methylene Chloride
Concen: 0.229 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

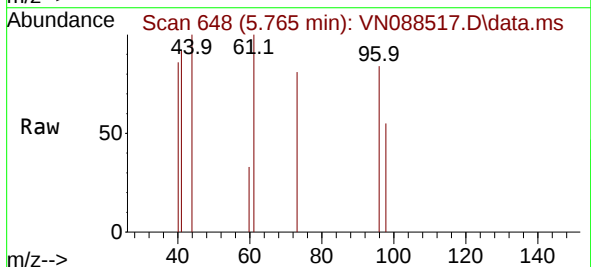
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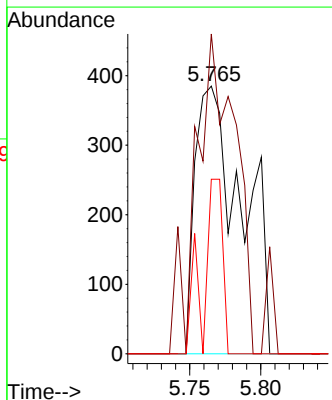
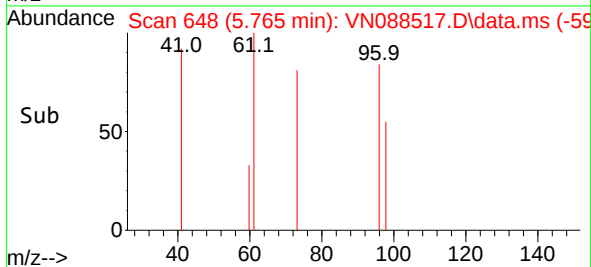
Tgt Ion: 84 Resp: 918
Ion Ratio Lower Upper
84 100
49 60.8 110.2 165.2#
51 41.6 34.1 51.1
86 0.0 52.6 78.8#

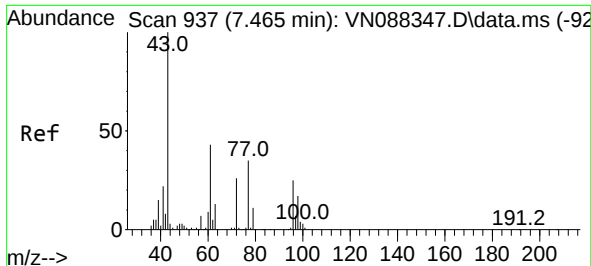


#21
trans-1,2-Dichloroethene
Concen: 0.237 ug/l
RT: 5.765 min Scan# 648
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03



Tgt Ion: 96 Resp: 880
Ion Ratio Lower Upper
96 100
61 119.5 122.4 183.6#
98 65.2 50.9 76.3

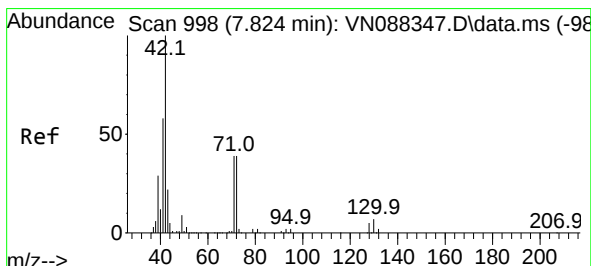
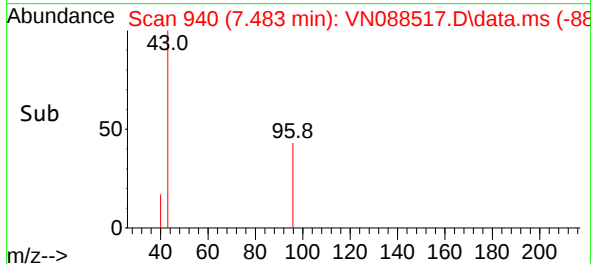
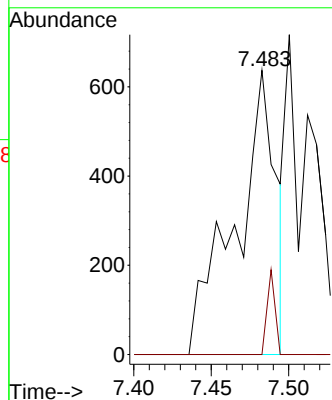
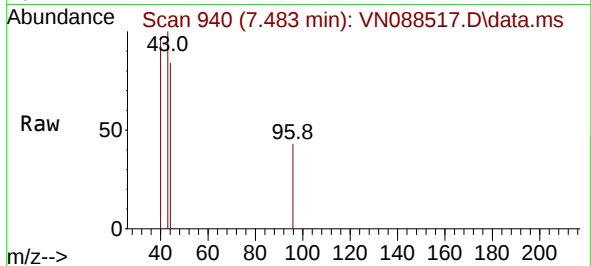




#25
2-Butanone
Concen: 0.383 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.018 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

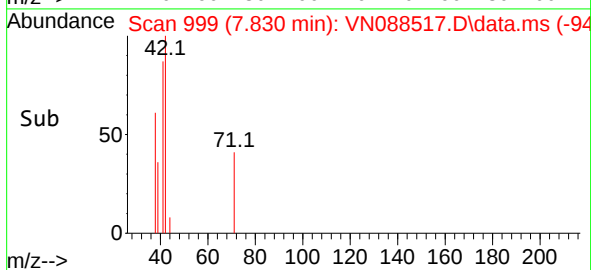
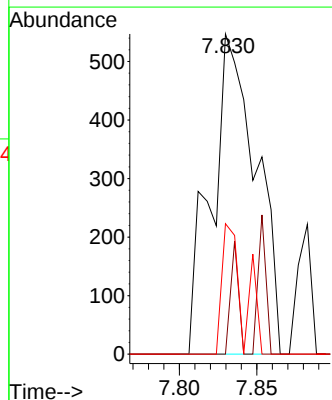
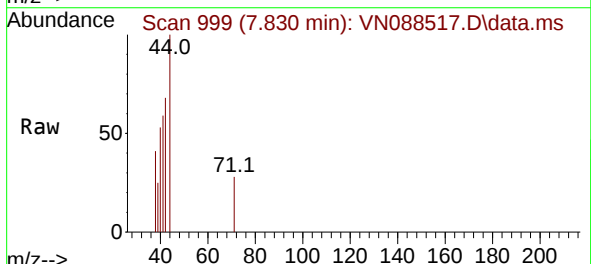
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

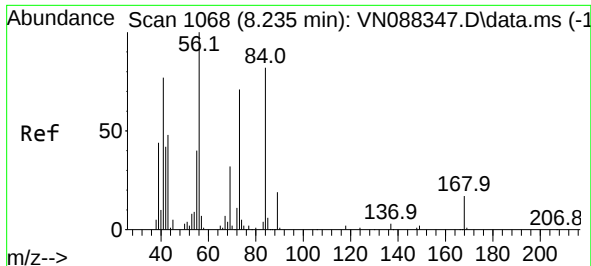
Tgt Ion: 43 Resp: 1150
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#



#29
Tetrahydrofuran
Concen: 0.511 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 42 Resp: 1101
Ion Ratio Lower Upper
42 100
72 6.2 32.2 48.4#
71 19.2 31.1 46.7#

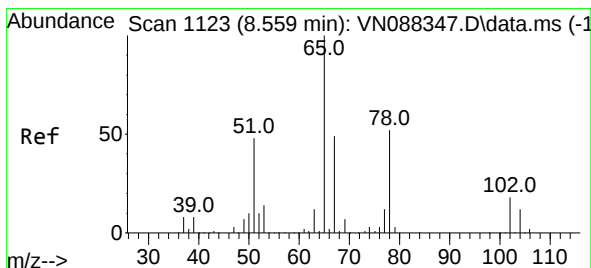
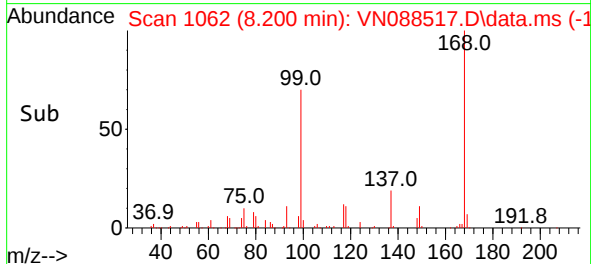
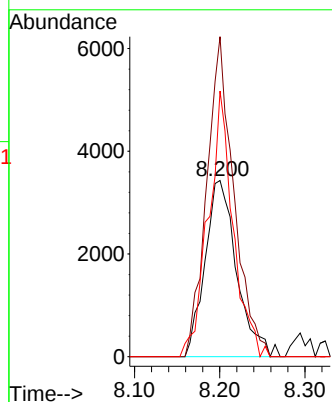
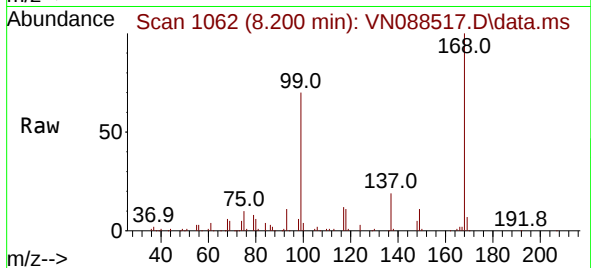




#31
Cyclohexane
Concen: 1.303 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

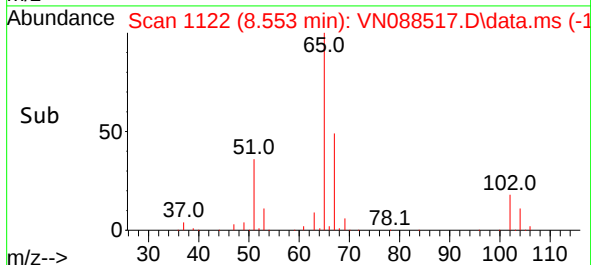
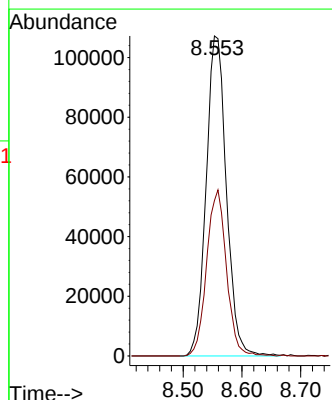
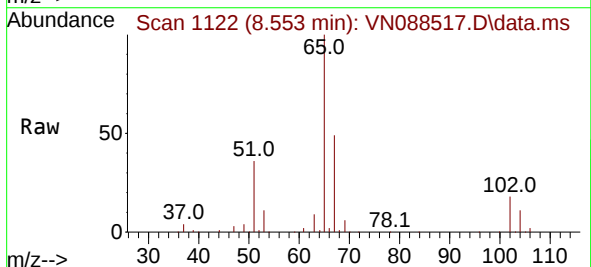
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

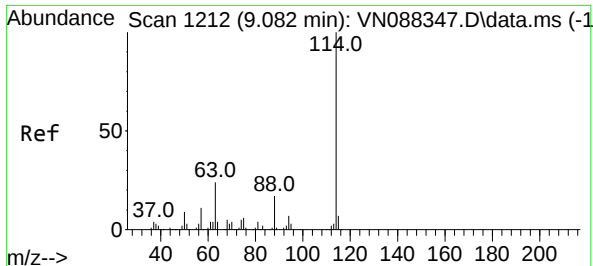
Tgt Ion: 56 Resp: 8858
Ion Ratio Lower Upper
56 100
69 181.6 25.3 37.9#
84 150.8 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 49.489 ug/l
RT: 8.553 min Scan# 1122
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 65 Resp: 255888
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8

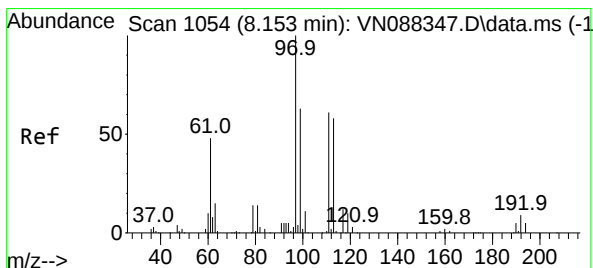
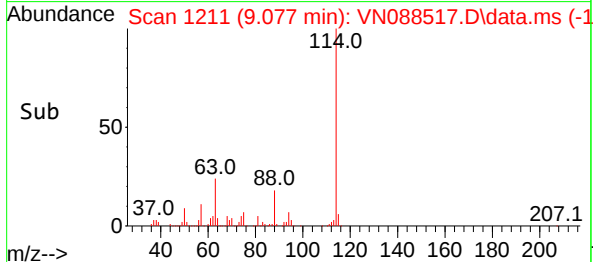
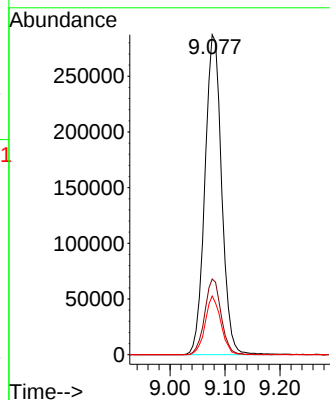
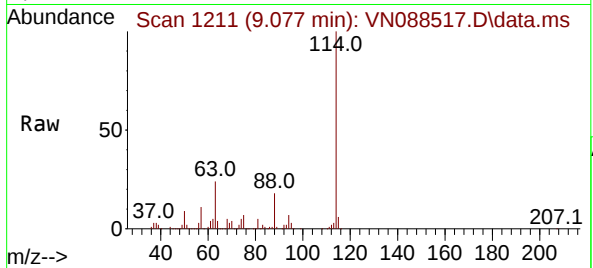




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.077 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

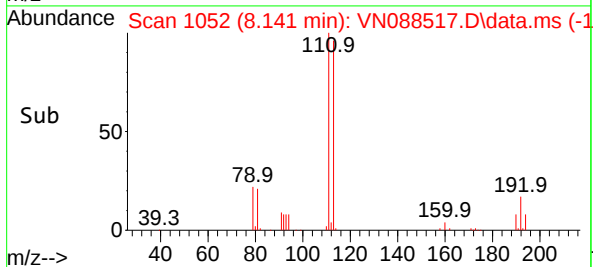
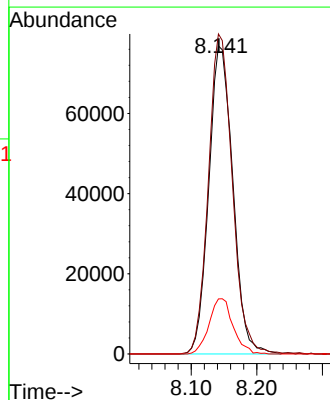
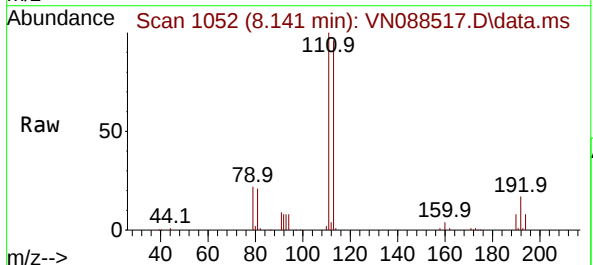
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

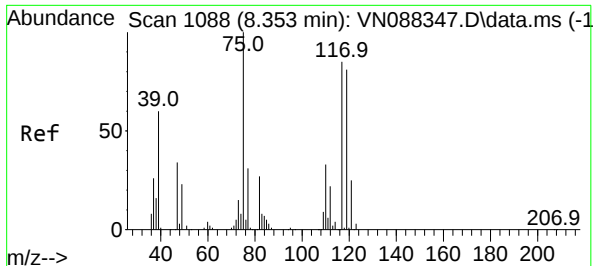
Tgt Ion:114 Resp: 607567
Ion Ratio Lower Upper
114 100
63 23.6 0.0 49.0
88 18.4 0.0 34.0



#35
Dibromofluoromethane
Concen: 46.580 ug/l
RT: 8.141 min Scan# 1052
Delta R.T. -0.012 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion:113 Resp: 196123
Ion Ratio Lower Upper
113 100
111 103.0 82.5 123.7
192 17.9 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.077 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBL01

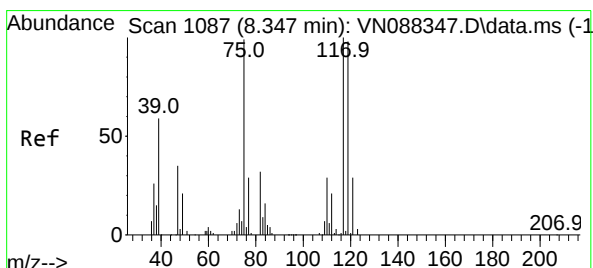
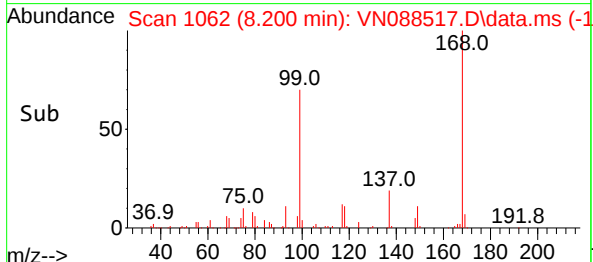
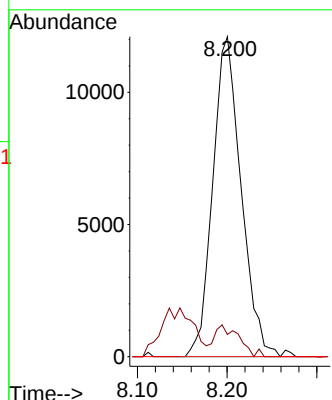
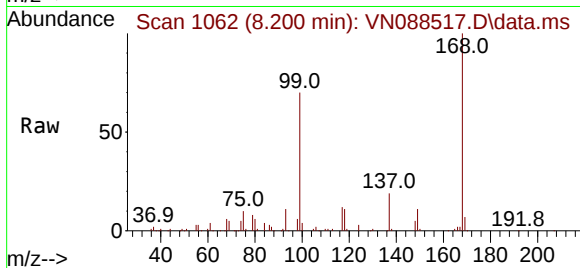
Tgt Ion: 75 Resp: 26495

Ion Ratio Lower Upper

75 100

110 8.7 15.8 47.4#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.067 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.147 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

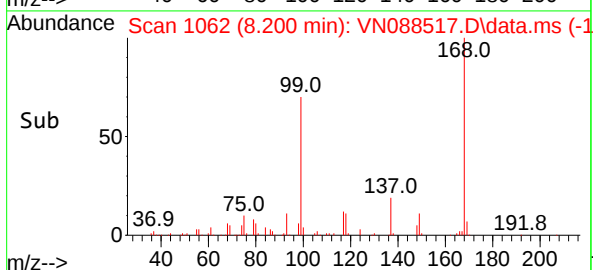
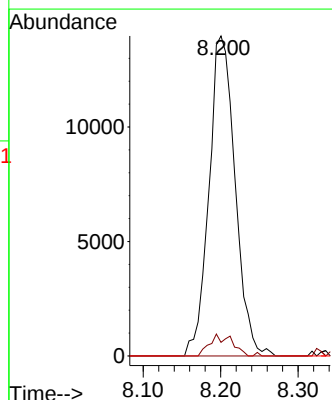
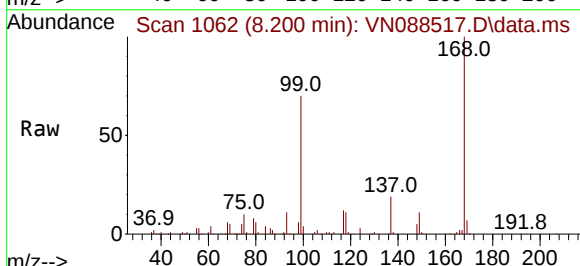
Tgt Ion: 117 Resp: 32775

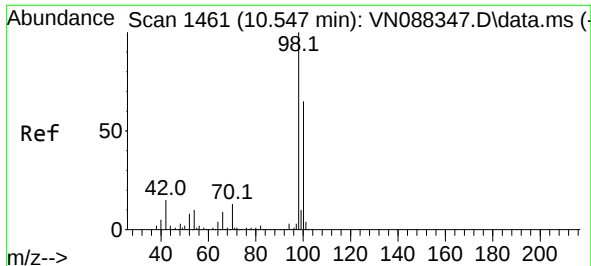
Ion Ratio Lower Upper

117 100

119 4.2 78.2 117.4#

121 0.0 23.4 35.2#

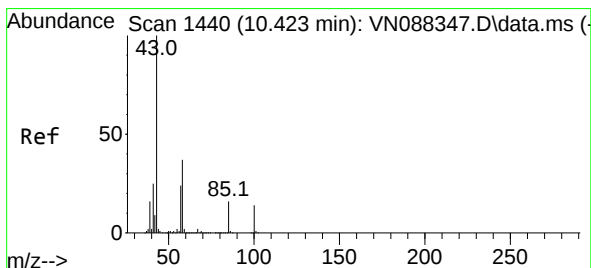
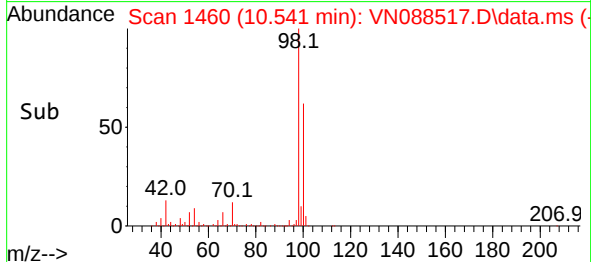
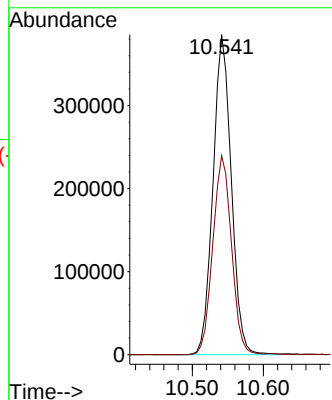
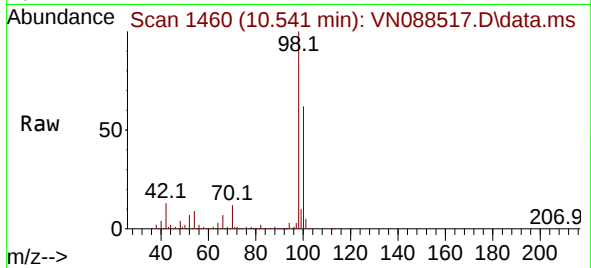




#50
Toluene-d8
Concen: 43.951 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

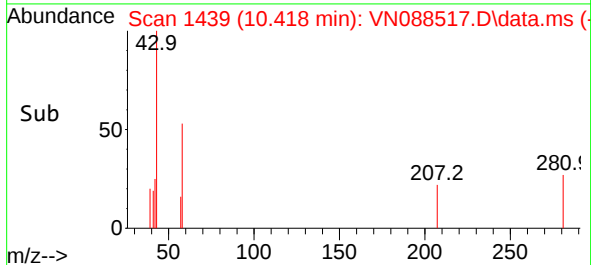
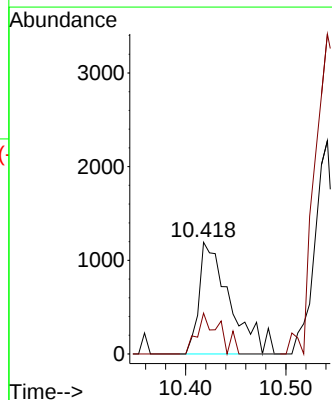
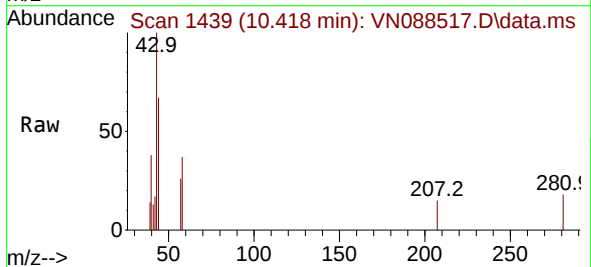
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

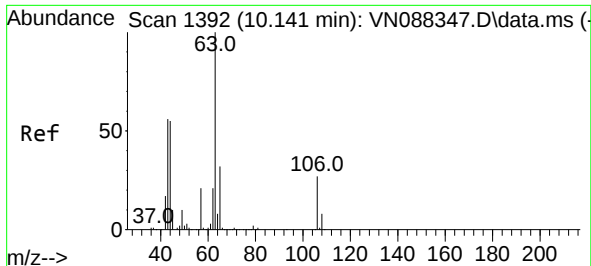
Tgt Ion: 98 Resp: 688544
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.333 ug/l
RT: 10.418 min Scan# 1439
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 43 Resp: 2563
Ion Ratio Lower Upper
43 100
58 26.5 29.1 43.7#

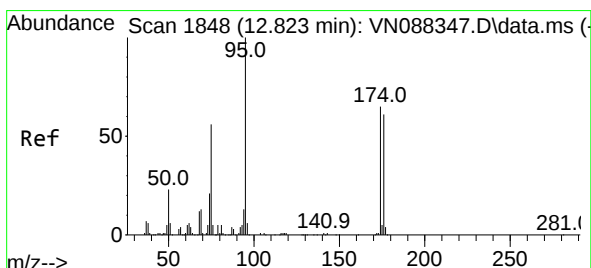
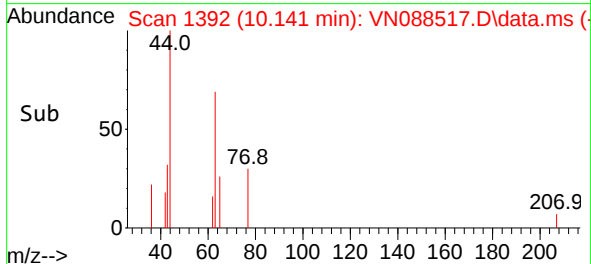
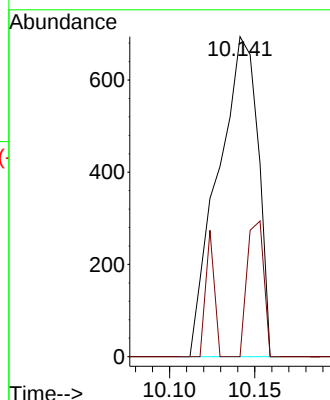
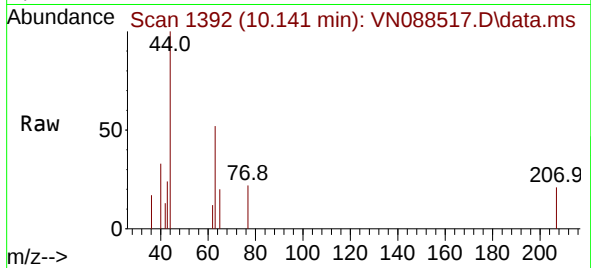




#58
2-Chloroethyl Vinyl ether
Concen: 0.292 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

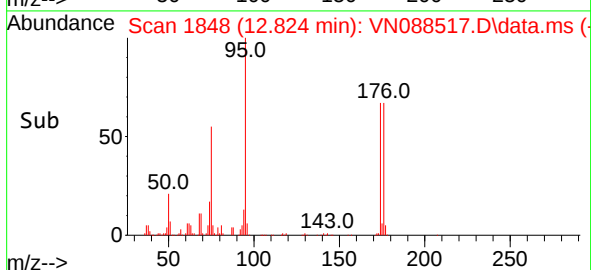
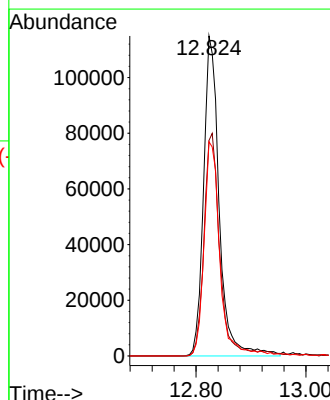
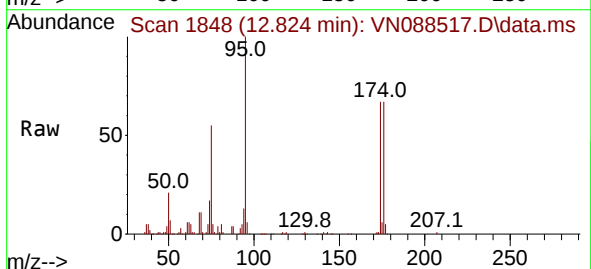
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

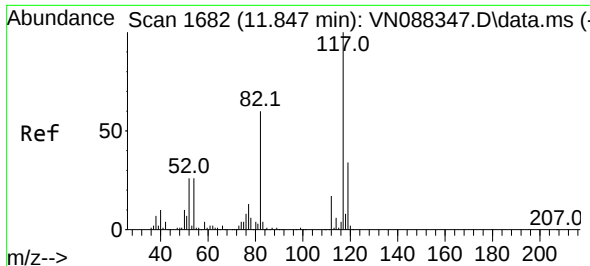
Tgt Ion: 63 Resp: 1133
Ion Ratio Lower Upper
63 100
106 17.7 20.5 30.7#



#62
4-Bromofluorobenzene
Concen: 42.294 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 95 Resp: 227342
Ion Ratio Lower Upper
95 100
174 70.8 0.0 139.0
176 67.8 0.0 132.4

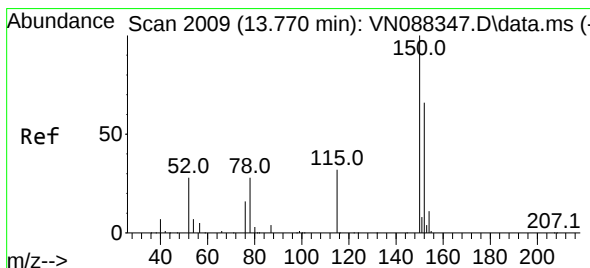
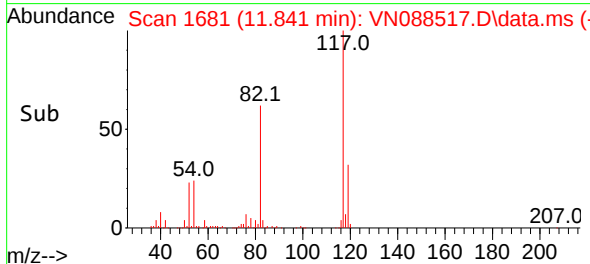
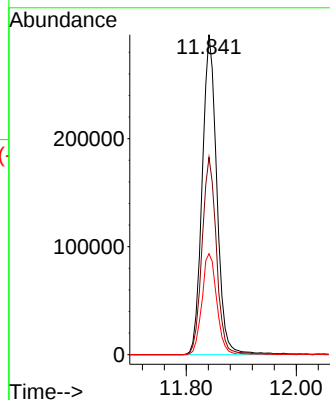
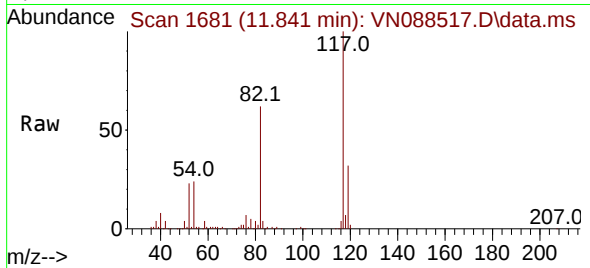




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

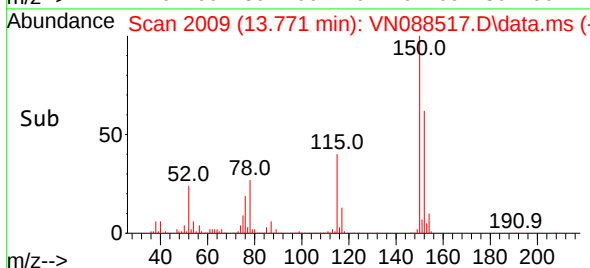
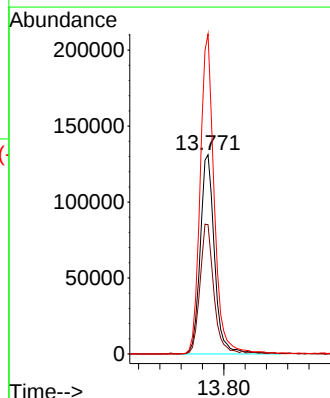
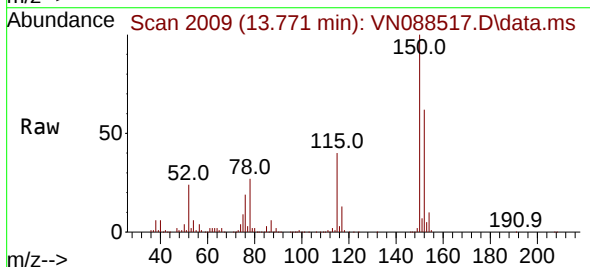
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

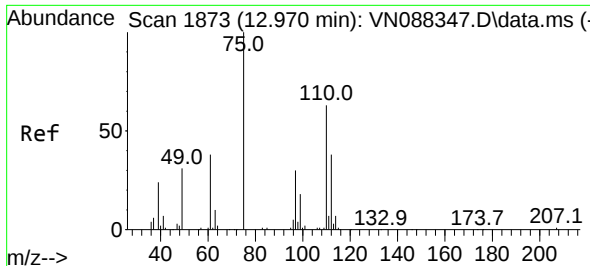
Tgt Ion:117 Resp: 547726
Ion Ratio Lower Upper
117 100
82 61.7 47.8 71.8
119 31.6 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion:152 Resp: 244367
Ion Ratio Lower Upper
152 100
115 63.0 33.0 98.9
150 157.8 0.0 349.0

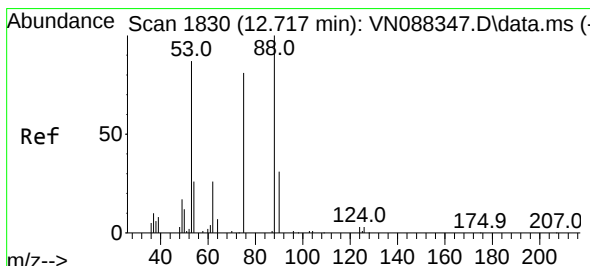
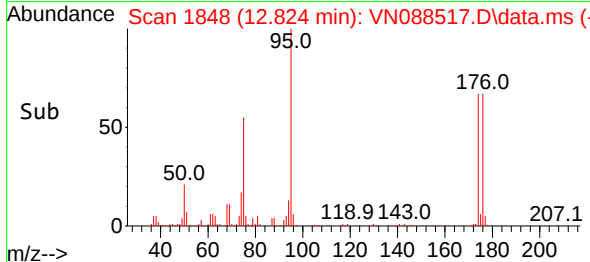
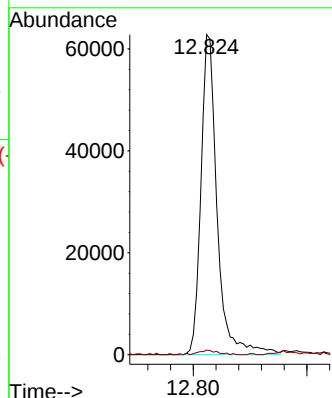
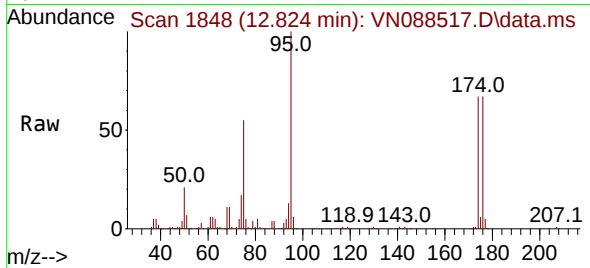




#76
1,2,3-Trichloropropane
Concen: 21.685 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

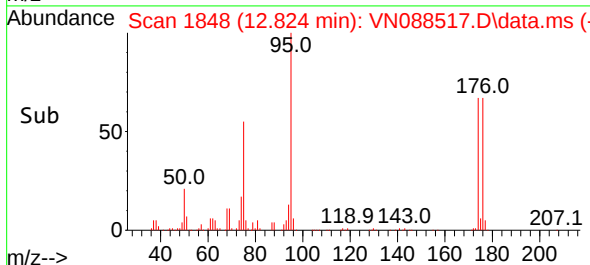
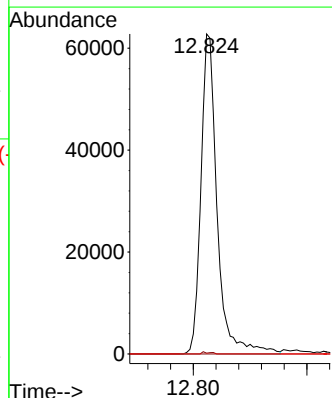
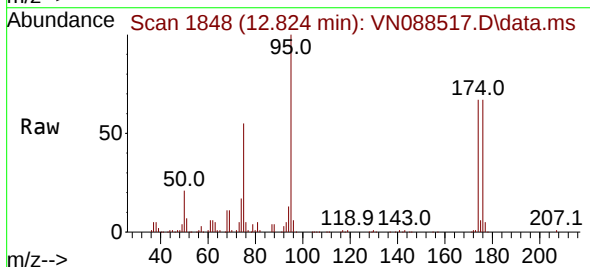
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

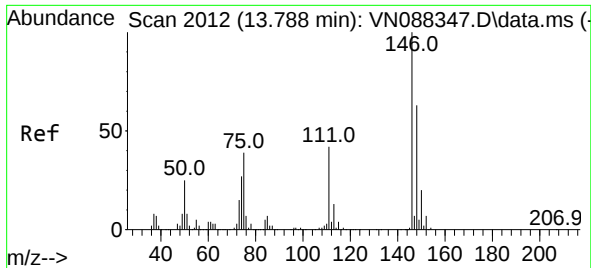
Tgt Ion: 75 Resp: 124113
Ion Ratio Lower Upper
75 100
77 1.6 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.518 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 75 Resp: 124113
Ion Ratio Lower Upper
75 100
53 0.3 92.2 138.4#
89 0.0 0.0 0.0

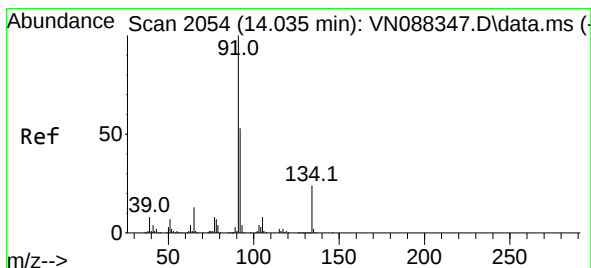
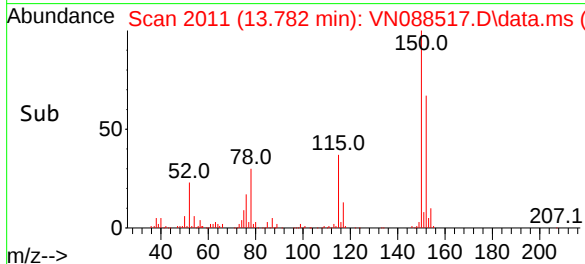
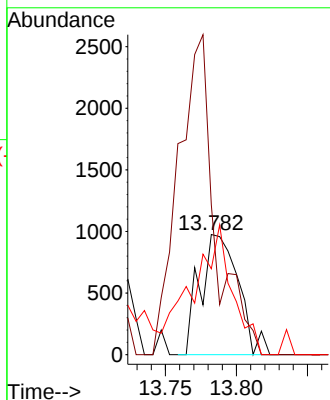
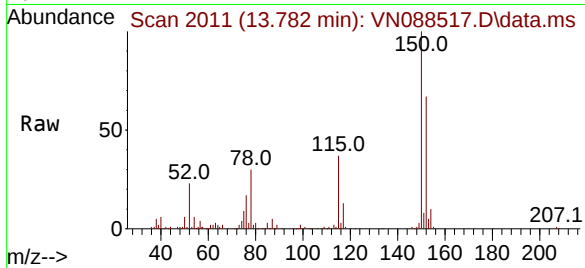




#88
1,4-Dichlorobenzene
Concen: 0.217 ug/l
RT: 13.782 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

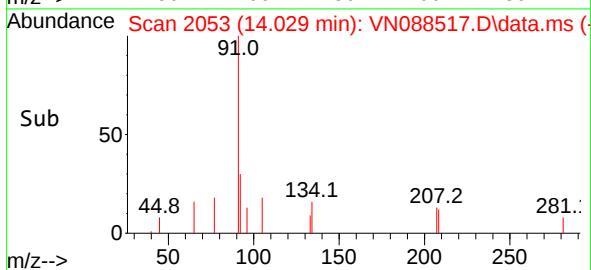
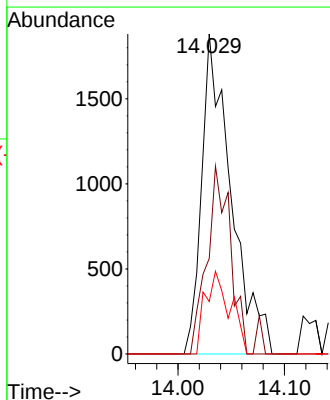
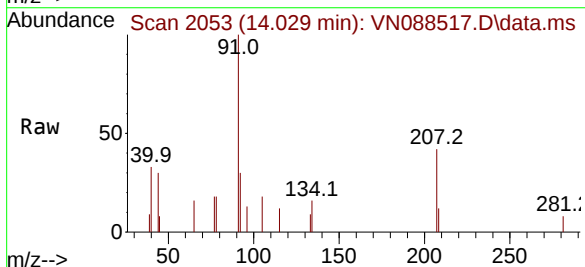
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

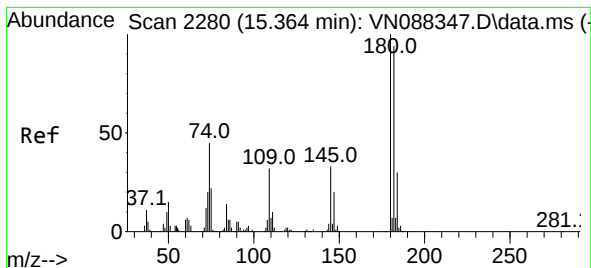
Tgt Ion	Ratio	Lower	Upper
146	100		
111	255.1	21.6	64.6#
148	111.9	31.0	93.0#



#89
n-Butylbenzene
Concen: 0.248 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	46.8	26.1	78.3
134	21.9	11.7	35.1





#93

1,2,4-Trichlorobenzene

Concen: 0.400 ug/l

RT: 15.370 min Scan# 2280

Delta R.T. 0.006 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBL01

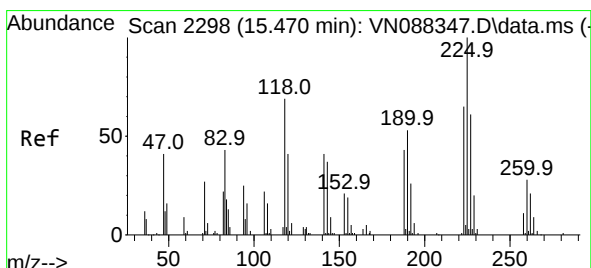
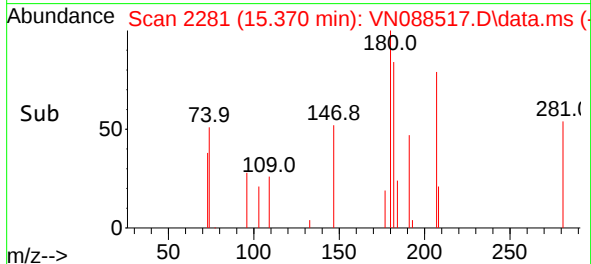
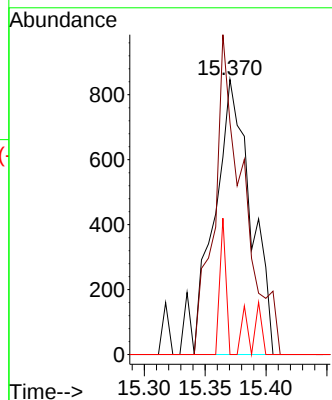
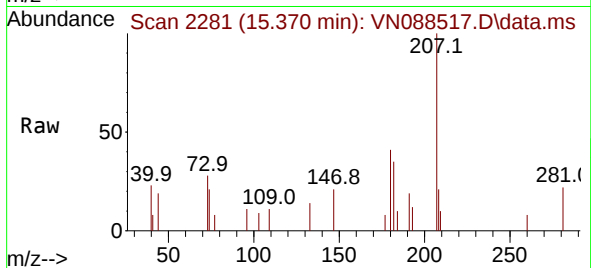
Tgt Ion:180 Resp: 1800

Ion Ratio Lower Upper

180 100

182 90.8 46.1 138.2

145 8.2 16.7 50.1#



#94

Hexachlorobutadiene

Concen: 0.845 ug/l

RT: 15.476 min Scan# 2299

Delta R.T. 0.006 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

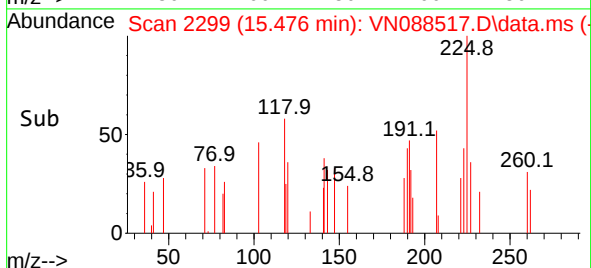
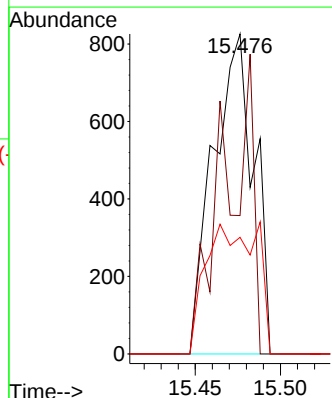
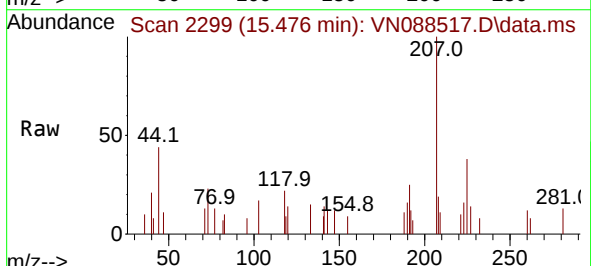
Tgt Ion:225 Resp: 1366

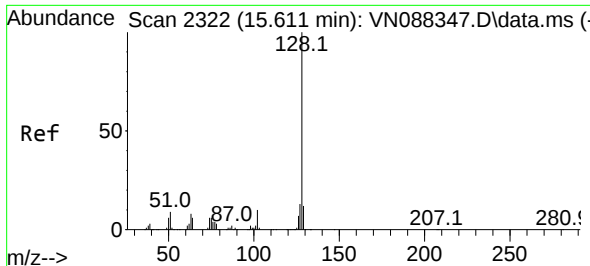
Ion Ratio Lower Upper

225 100

223 66.8 32.3 96.8

227 50.9 29.9 89.8

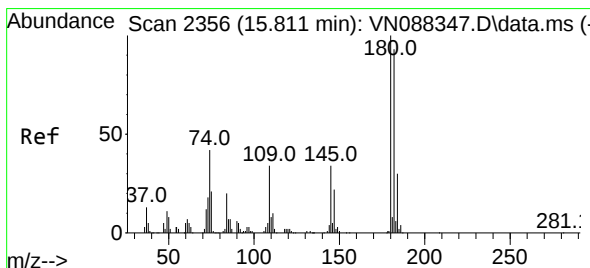
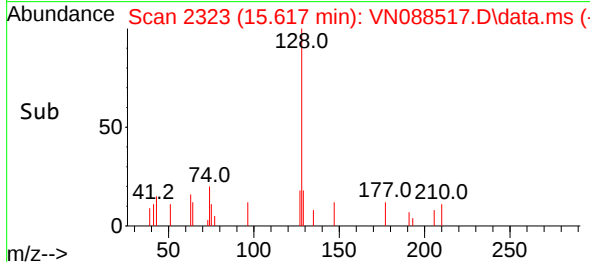
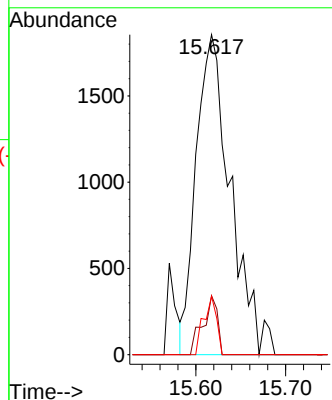
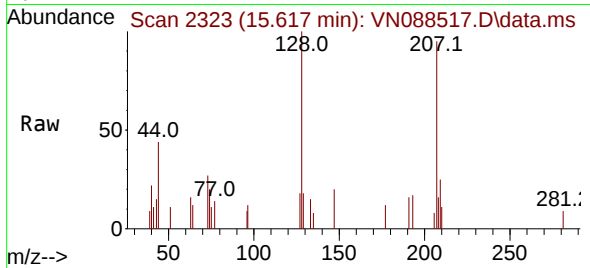




#95
Naphthalene
Concen: 0.317 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

Tgt Ion:128 Resp: 4945
Ion Ratio Lower Upper
128 100
127 7.8 10.4 15.6#
129 6.9 9.0 13.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.435 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion:180 Resp: 1905
Ion Ratio Lower Upper
180 100
182 80.3 45.9 137.7
145 0.0 17.8 53.4#

