

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088180.D
 Acq On : 31 Oct 2025 12:16
 Operator : JC\MD
 Sample : Q3447-05 20X
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW3-251023-01

Quant Time: Nov 01 00:30:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

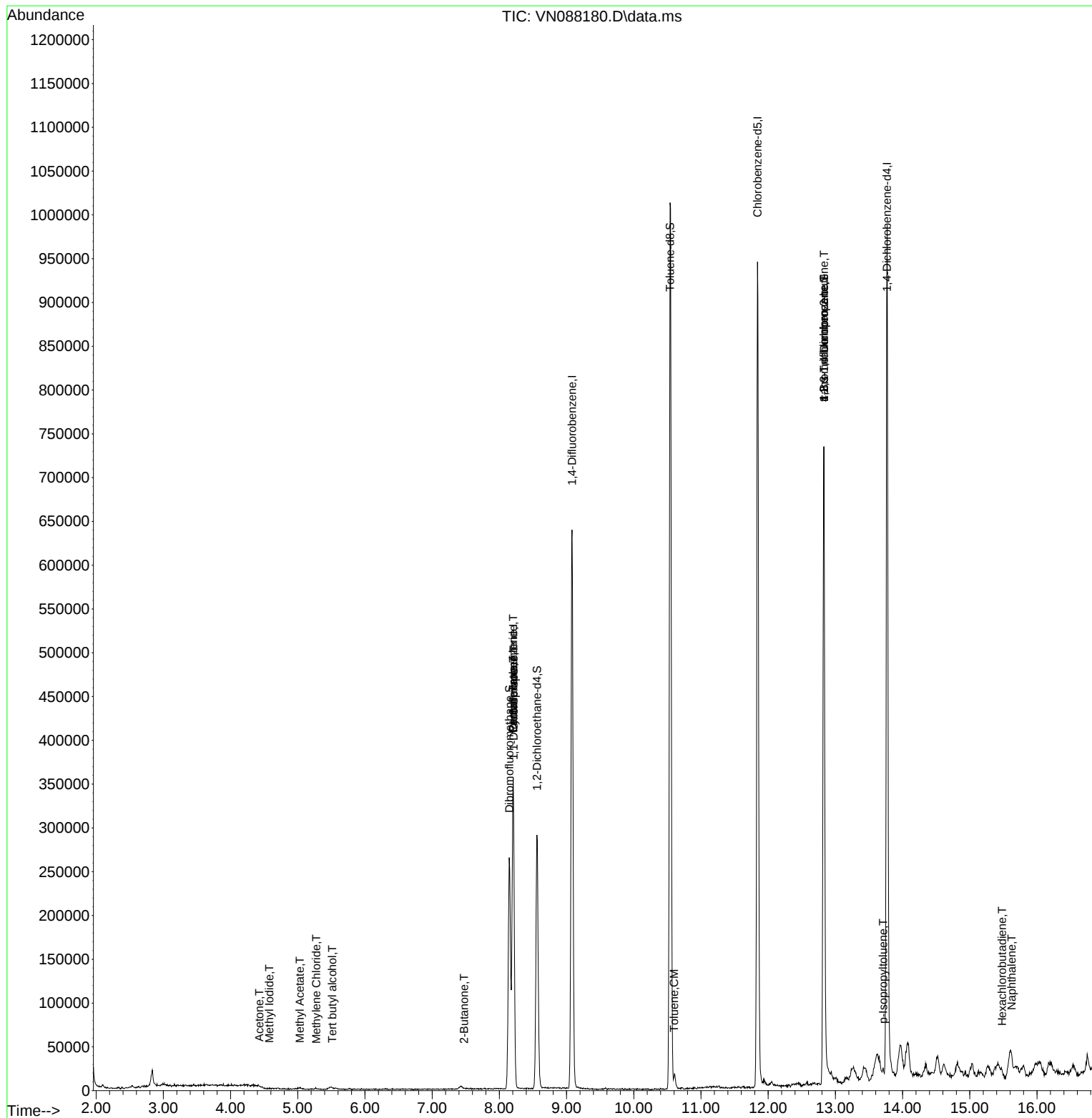
Internal Standards						
1) Pentafluorobenzene	8.206	168	239550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	534650	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	517307	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	247108	59.654	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.300%			
35) Dibromofluoromethane	8.147	113	185562	51.663	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.320%			
50) Toluene-d8	10.541	98	688807	49.770	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.540%			
62) 4-Bromofluorobenzene	12.829	95	283077	57.916	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 115.840%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.577	142	145	4.258	ug/l #	38
11) Tert butyl alcohol	5.512	59	797	1.117	ug/l #	71
16) Acetone	4.430	43	2404	1.155	ug/l #	84
18) Methyl Acetate	5.030	43	4292	1.007	ug/l #	77
20) Methylene Chloride	5.277	84	554	0.941	ug/l #	41
25) 2-Butanone	7.477	43	670	0.244	ug/l #	50
31) Cyclohexane	8.206	56	7374	1.272	ug/l #	25
36) 1,1-Dichloropropene	8.212	75	23157	4.416	ug/l #	53
38) Carbon Tetrachloride	8.206	117	28167	5.200	ug/l #	14
52) Toluene	10.600	92	5930	0.602	ug/l	80
76) 1,2,3-Trichloropropane	12.829	75	156239	26.439	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	156239	73.753	ug/l #	1
86) p-Isopropyltoluene	13.712	119	5571	0.320	ug/l	89
94) Hexachlorobutadiene	15.482	225	721	0.386	ug/l #	59
95) Naphthalene	15.623	128	8336	0.486	ug/l #	31

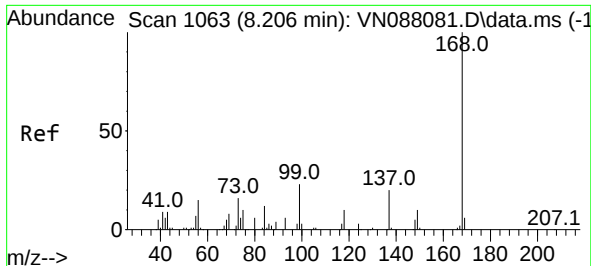
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 01 00:30:49 2025
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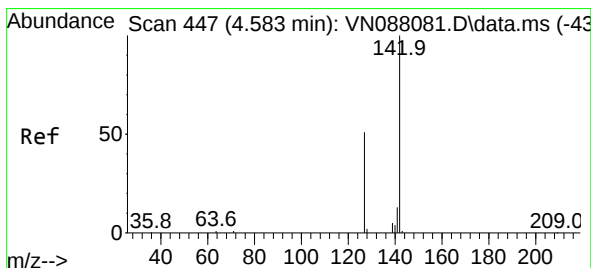
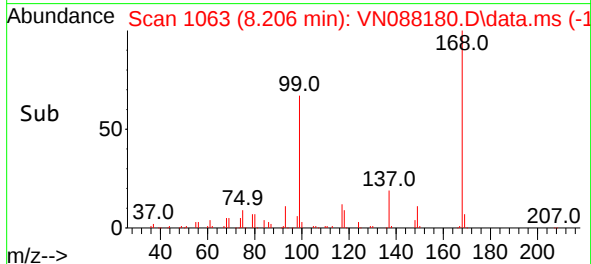
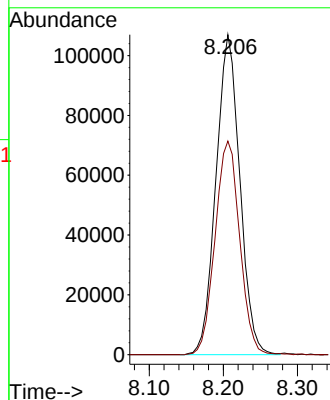
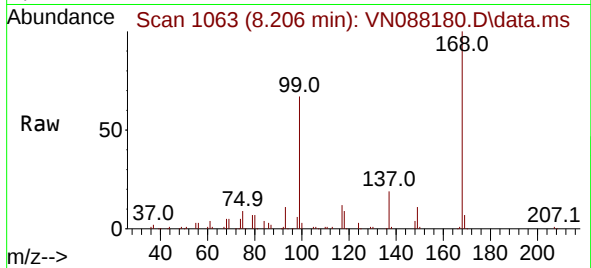




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

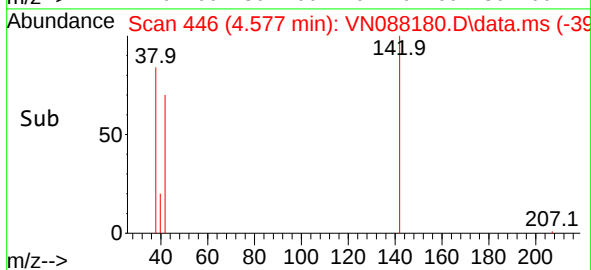
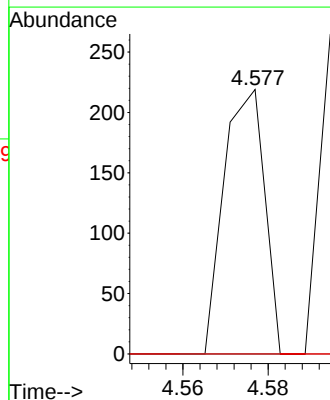
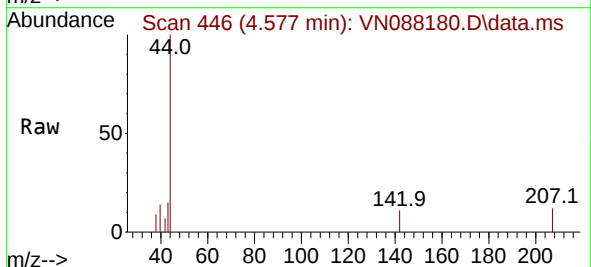
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

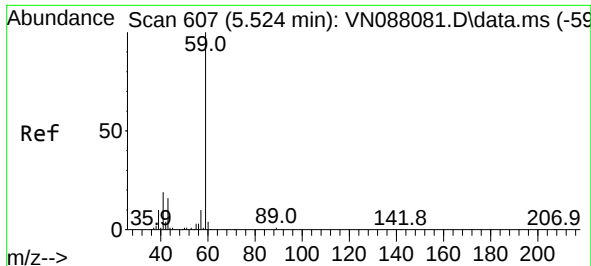
Tgt Ion:168 Resp: 239550
Ion Ratio Lower Upper
168 100
99 66.7 57.2 85.8



#10
Methyl Iodide
Concen: 4.258 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion:142 Resp: 145
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#

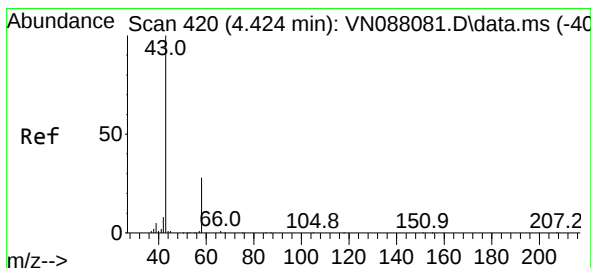
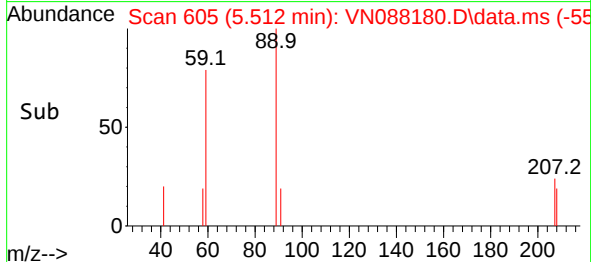
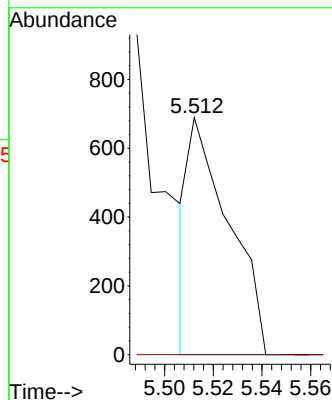
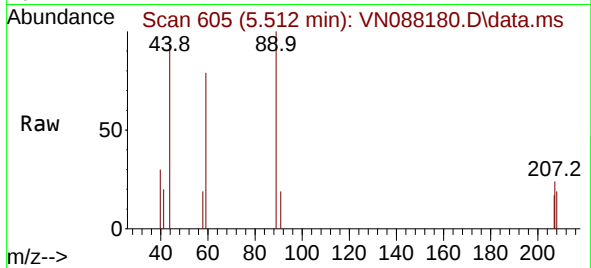




#11
Tert butyl alcohol
Concen: 1.117 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

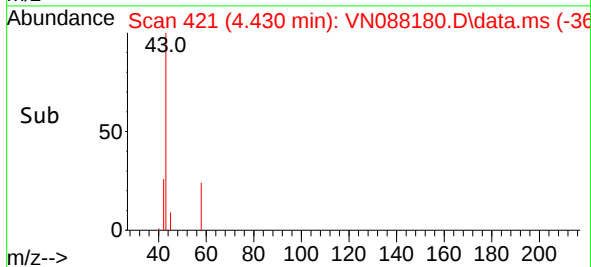
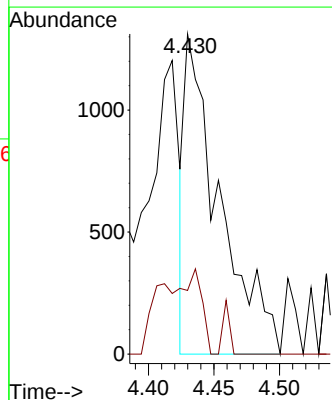
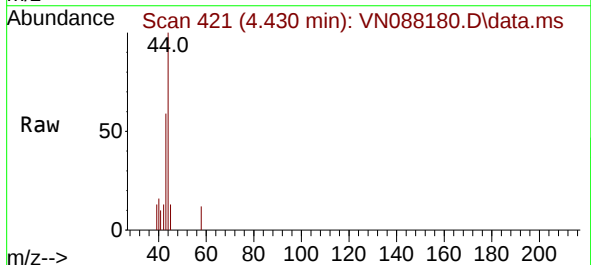
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

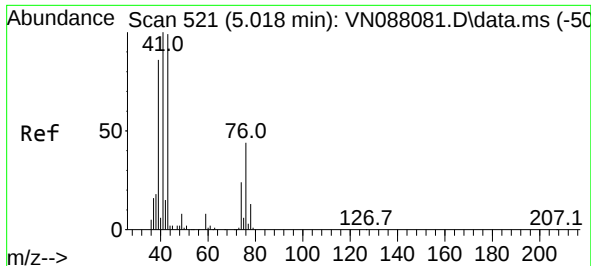
Tgt Ion: 59 Resp: 797
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 1.155 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

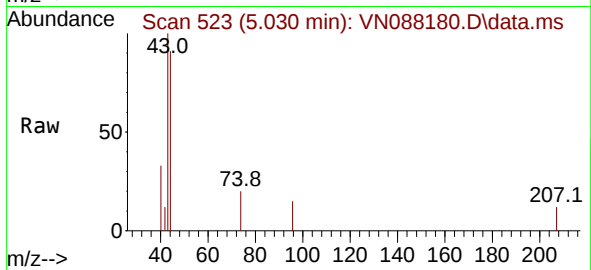
Tgt Ion: 43 Resp: 2404
Ion Ratio Lower Upper
43 100
58 19.9 22.6 33.8#



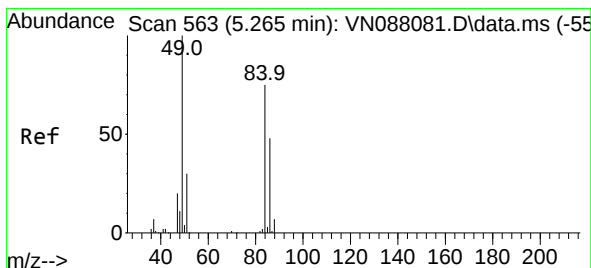
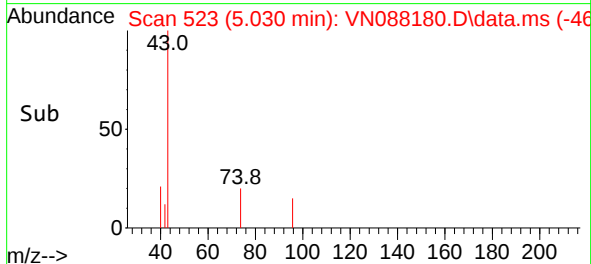
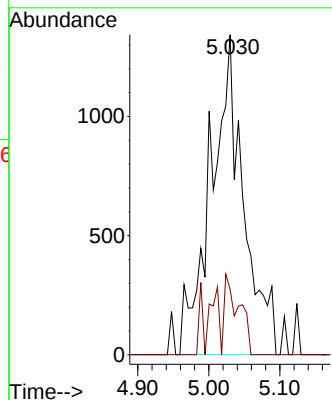


#18
Methyl Acetate
Concen: 1.007 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

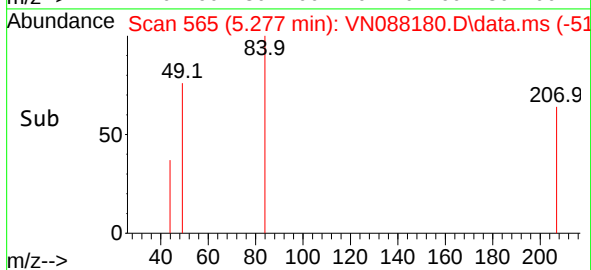
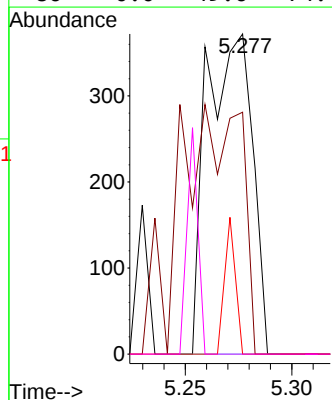
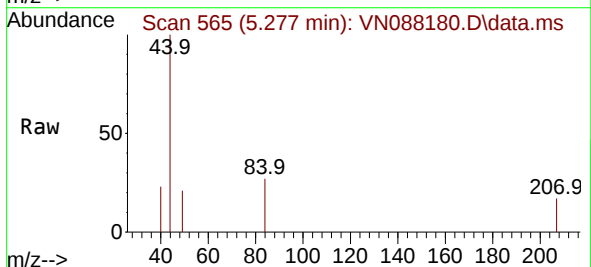


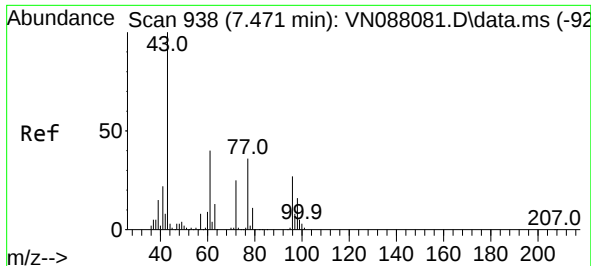
Tgt Ion: 43 Resp: 4292
Ion Ratio Lower Upper
43 100
74 11.2 17.6 26.4#



#20
Methylene Chloride
Concen: 0.941 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.012 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 84 Resp: 554
Ion Ratio Lower Upper
84 100
49 75.5 103.4 155.2#
51 0.0 33.8 50.8#
86 0.0 49.6 74.4#

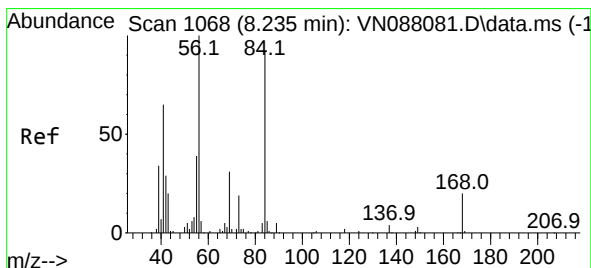
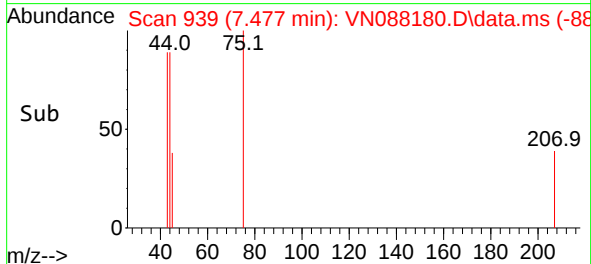
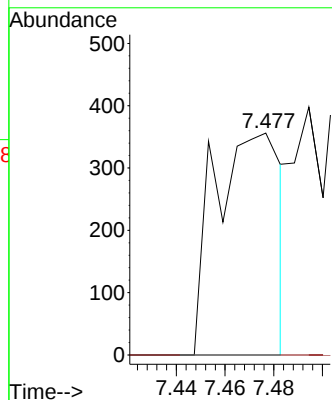
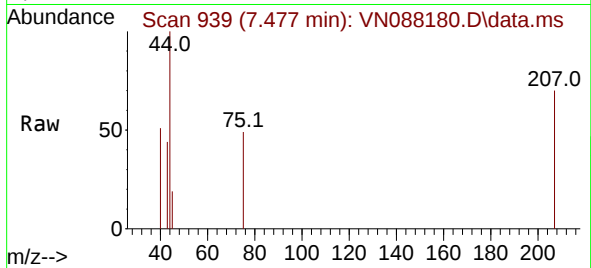




#25
2-Butanone
Concen: 0.244 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

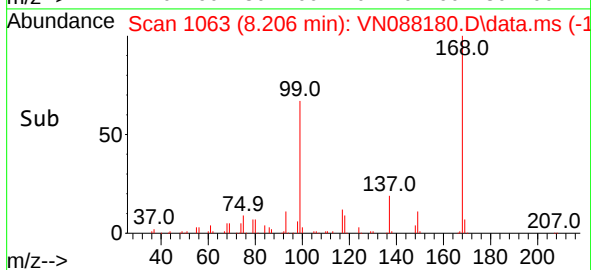
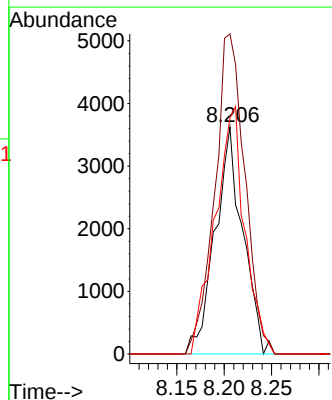
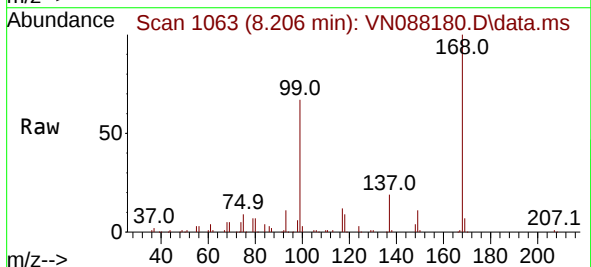
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

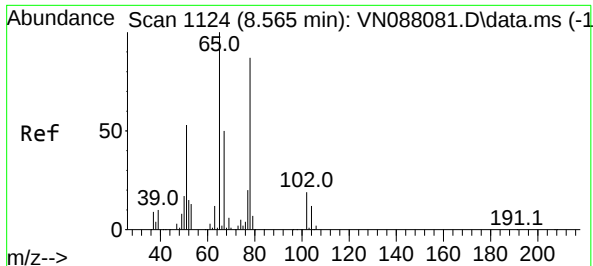
Tgt Ion: 43 Resp: 670
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.272 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 56 Resp: 7374
Ion Ratio Lower Upper
56 100
69 141.0 23.7 35.5#
84 104.1 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 59.654 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088180.D

Acq: 31 Oct 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

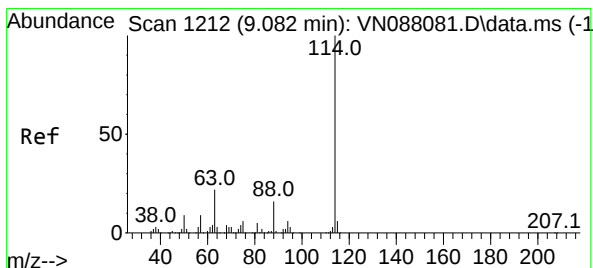
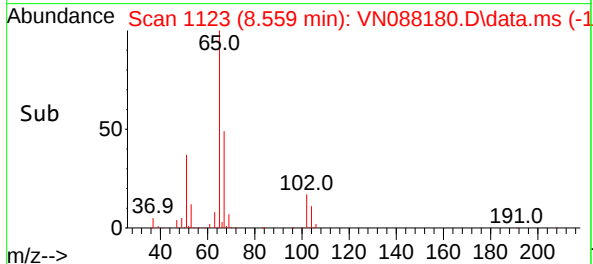
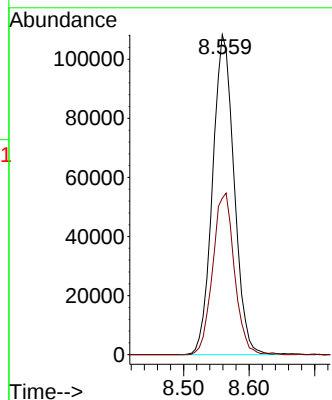
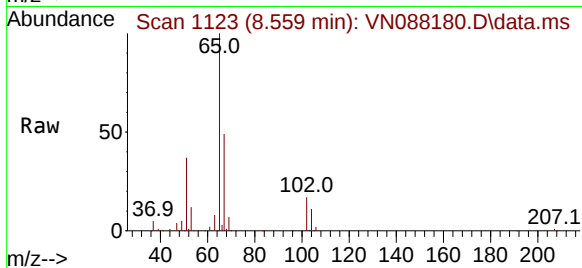
P001-TW3-251023-01

Tgt Ion: 65 Resp: 247108

Ion Ratio Lower Upper

65 100

67 50.8 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088180.D

Acq: 31 Oct 2025 12:16

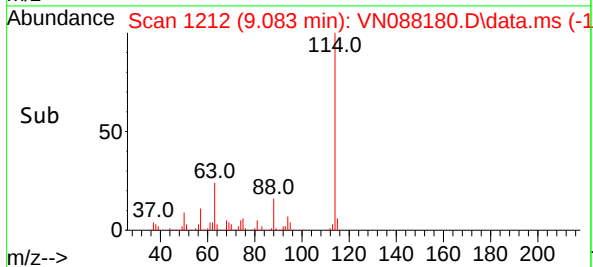
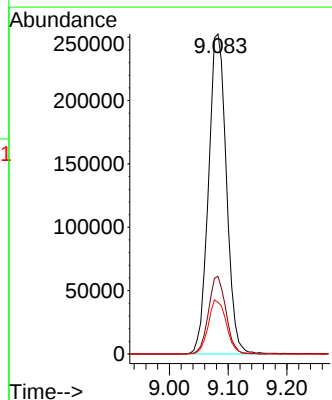
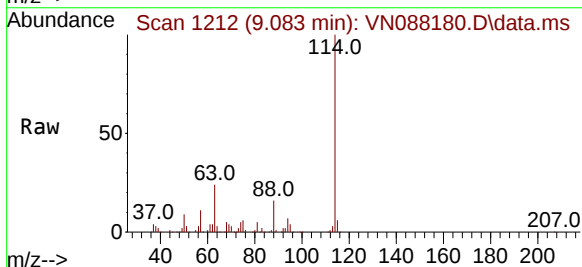
Tgt Ion: 114 Resp: 534650

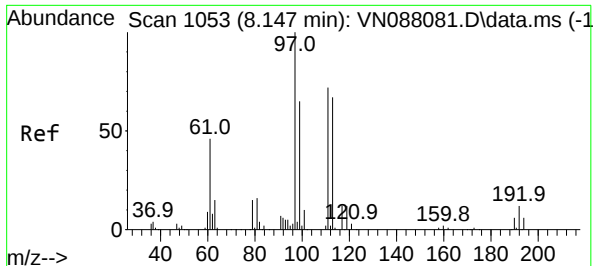
Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.2

88 16.1 0.0 33.4

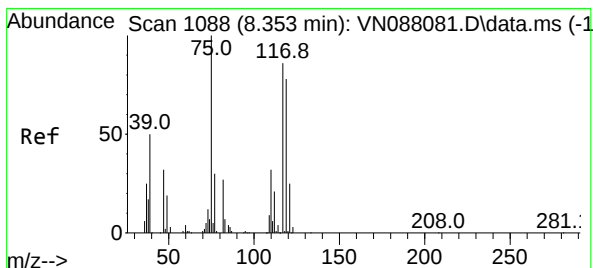
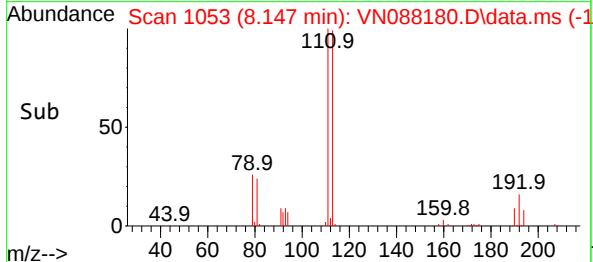
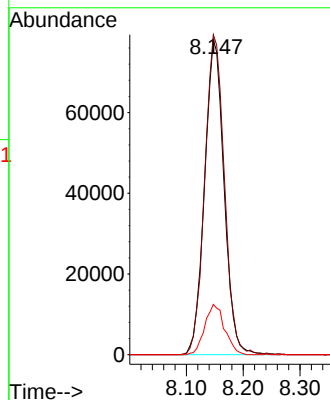
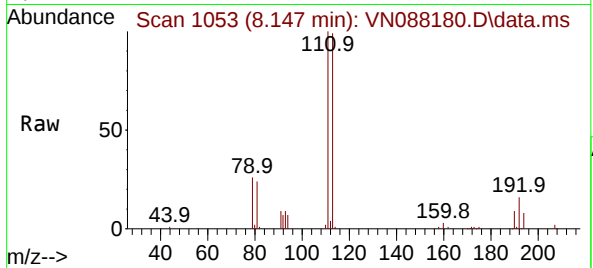




#35
Dibromofluoromethane
Concen: 51.663 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

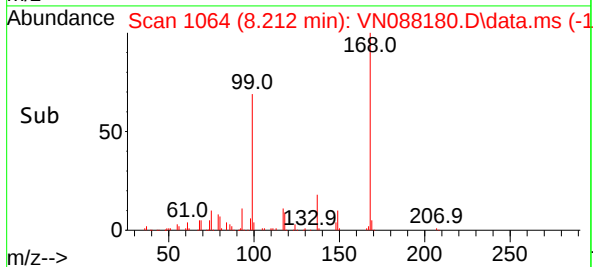
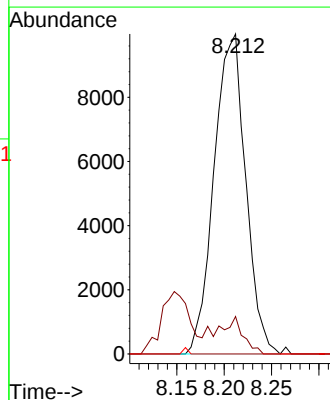
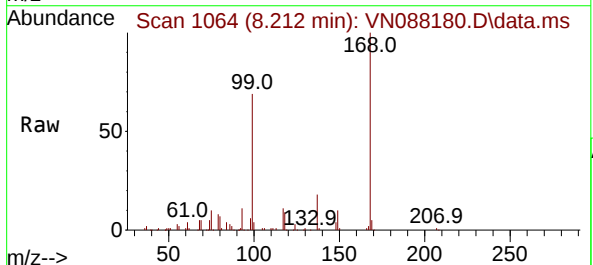
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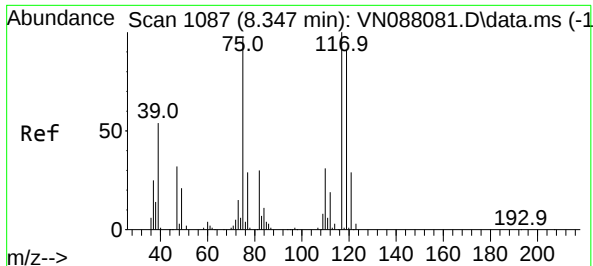
Tgt Ion:113 Resp: 185562
Ion Ratio Lower Upper
113 100
111 102.5 82.8 124.2
192 16.3 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.416 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.141 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 75 Resp: 23157
Ion Ratio Lower Upper
75 100
110 9.8 15.9 47.6#
77 0.0 24.4 36.6#

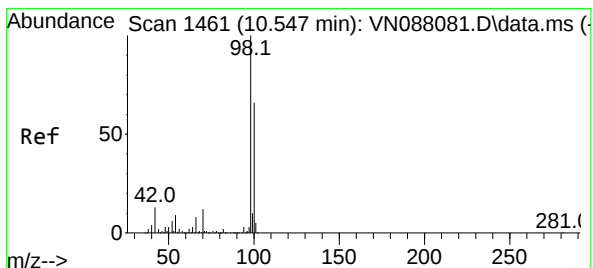
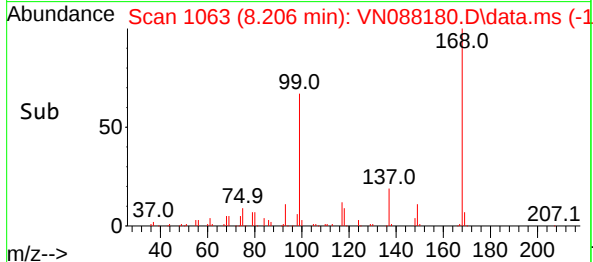
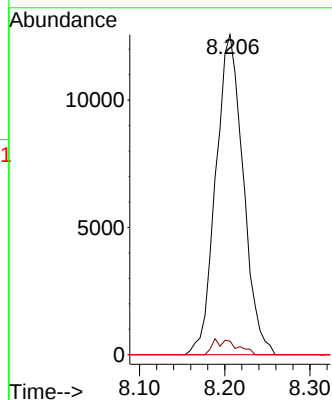
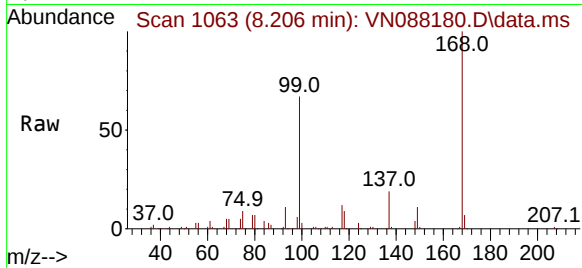




#38
Carbon Tetrachloride
Concen: 5.200 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

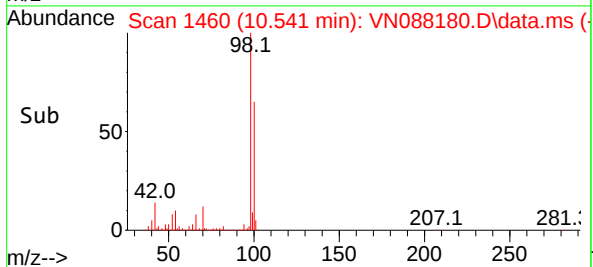
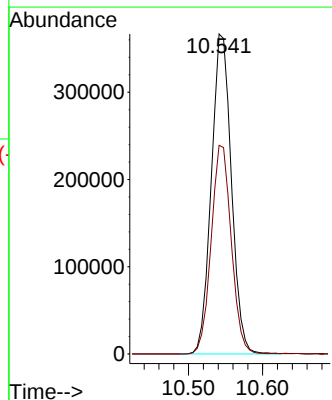
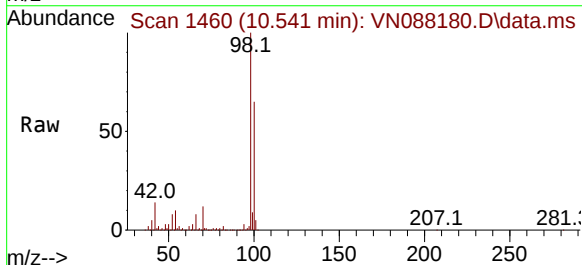
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

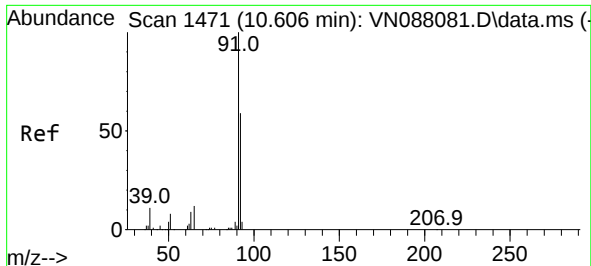
Tgt Ion:117 Resp: 28167
Ion Ratio Lower Upper
117 100
119 4.2 79.0 118.6#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 49.770 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 98 Resp: 688807
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2

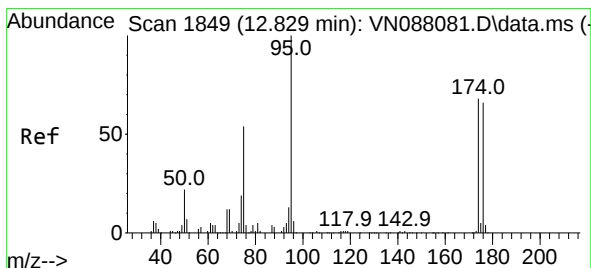
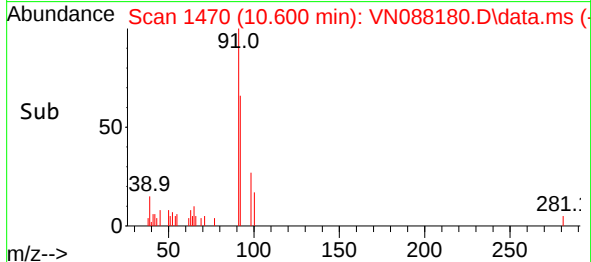
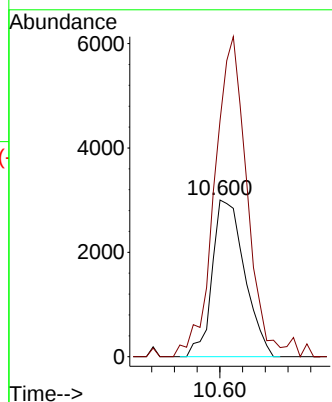
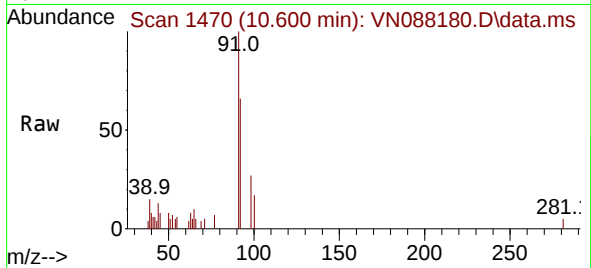




#52
Toluene
Concen: 0.602 ug/l
RT: 10.600 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

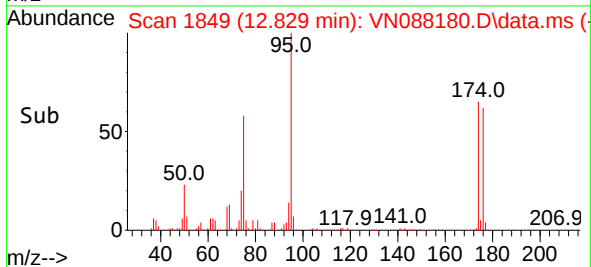
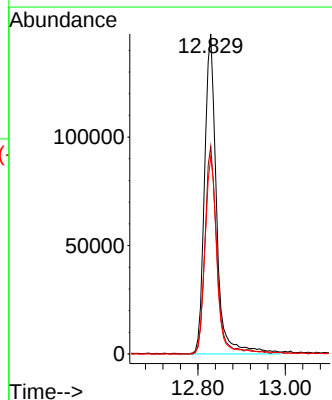
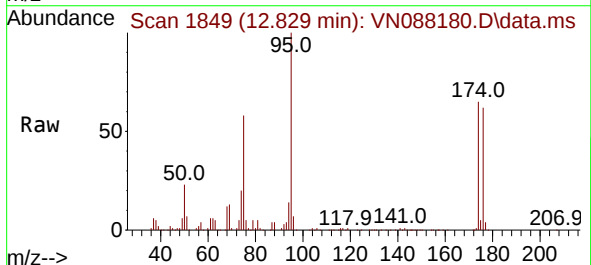
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

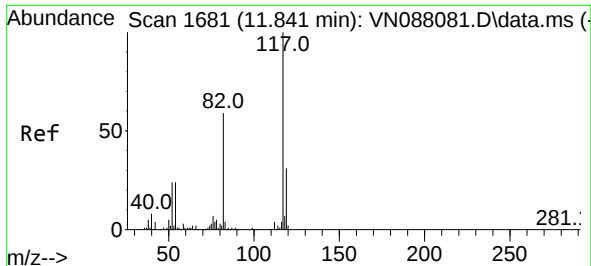
Tgt Ion: 92 Resp: 5930
Ion Ratio Lower Upper
92 100
91 203.9 140.4 210.6



#62
4-Bromofluorobenzene
Concen: 57.916 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 95 Resp: 283077
Ion Ratio Lower Upper
95 100
174 63.0 0.0 138.4
176 61.5 0.0 132.6

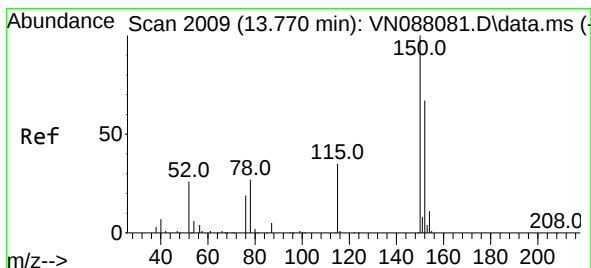
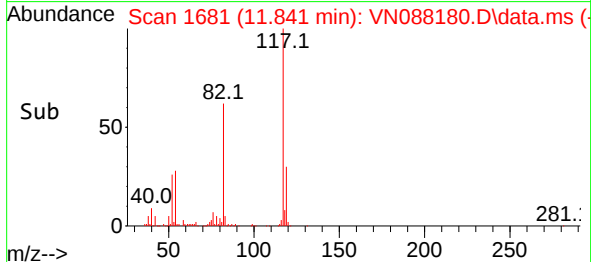
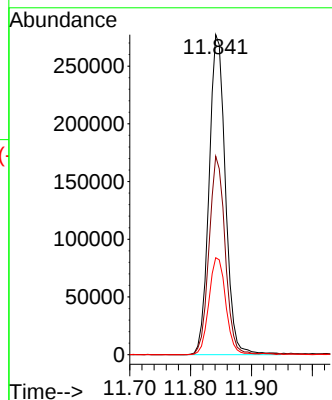
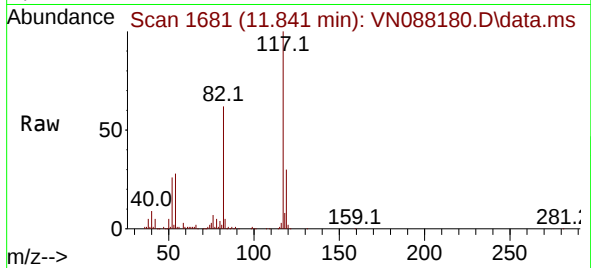




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

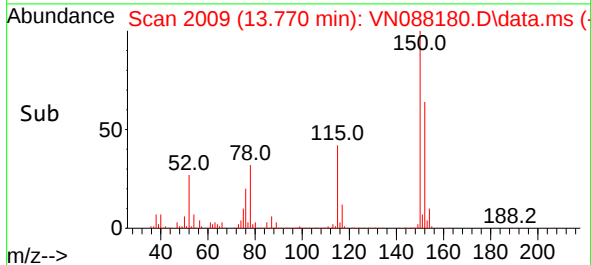
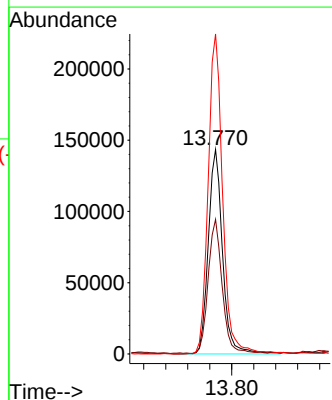
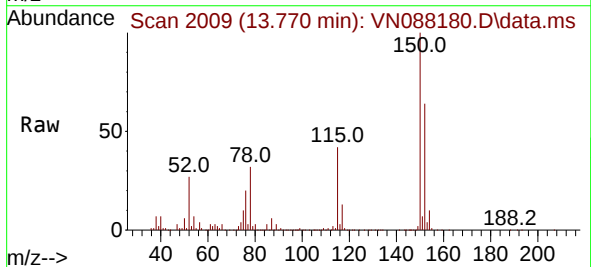
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

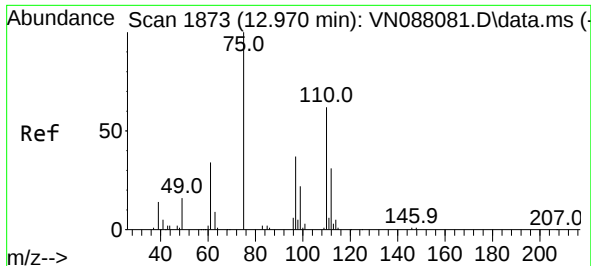
Tgt Ion:117 Resp: 517307
Ion Ratio Lower Upper
117 100
82 62.0 47.4 71.2
119 30.3 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion:152 Resp: 258469
Ion Ratio Lower Upper
152 100
115 64.4 32.3 96.8
150 158.9 0.0 351.0

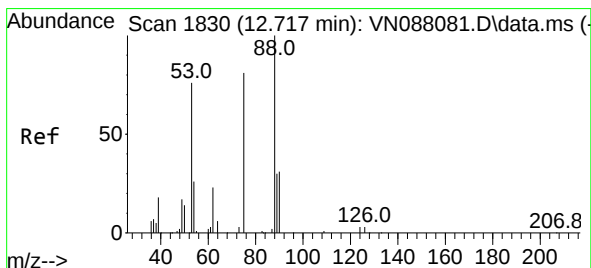
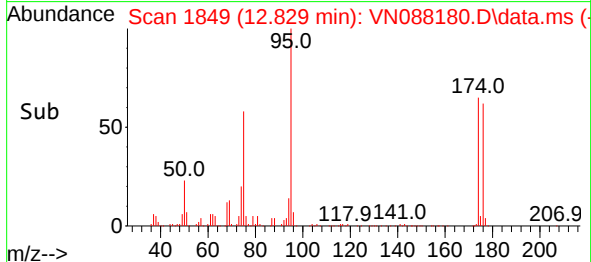
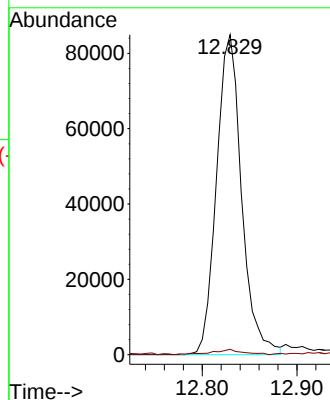
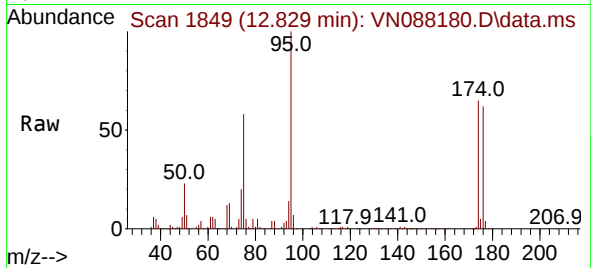




#76
1,2,3-Trichloropropane
Concen: 26.439 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

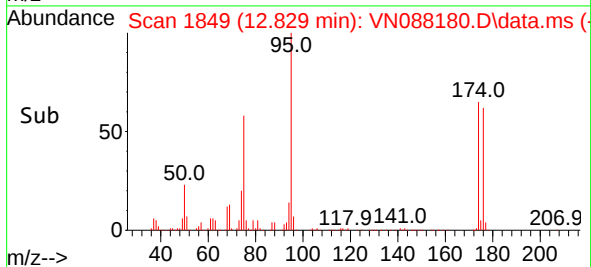
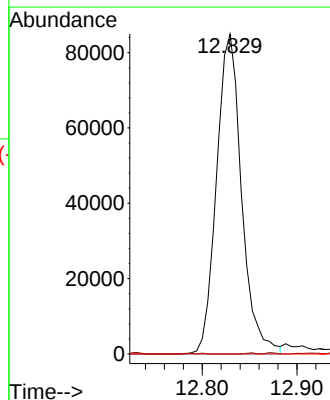
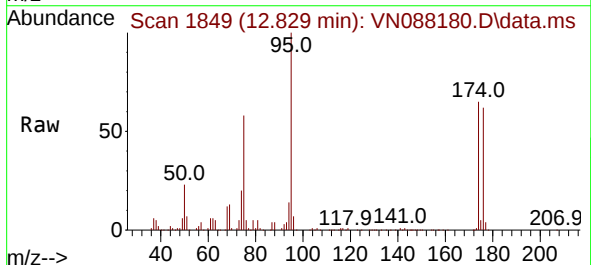
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

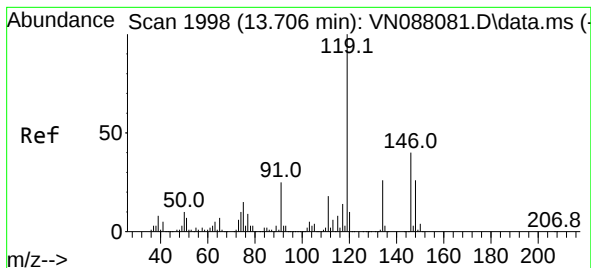
Tgt Ion: 75 Resp: 156239
Ion Ratio Lower Upper
75 100
77 2.1 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.753 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088180.D
Acq: 31 Oct 2025 12:16

Tgt Ion: 75 Resp: 156239
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

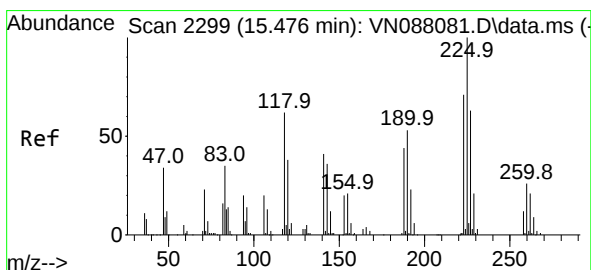
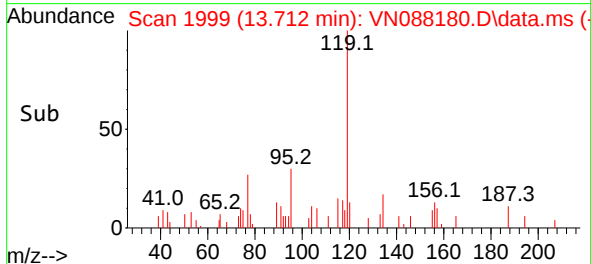
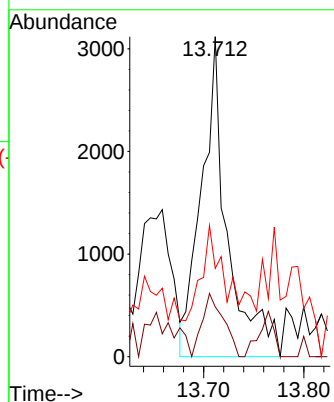
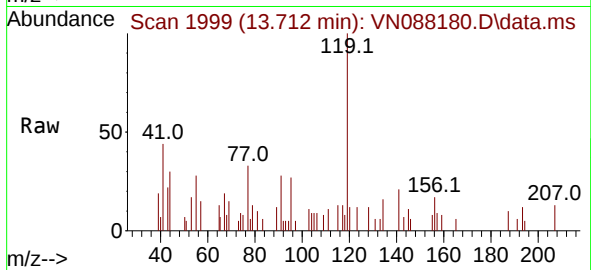




#86
 p-Isopropyltoluene
 Concen: 0.320 ug/l
 RT: 13.712 min Scan# 1999
 Delta R.T. 0.006 min
 Lab File: VN088180.D
 Acq: 31 Oct 2025 12:16

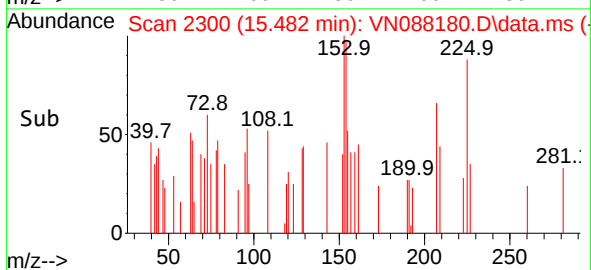
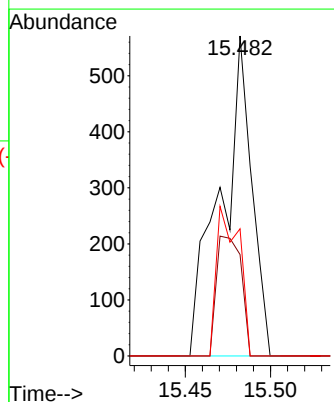
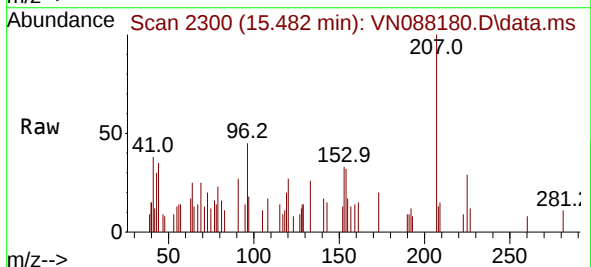
Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW3-251023-01

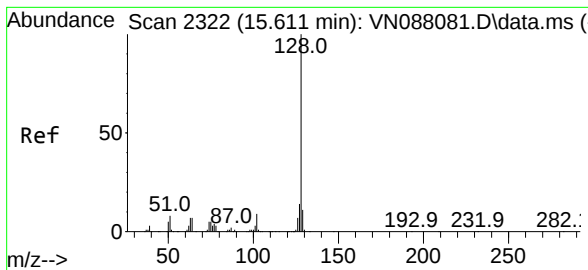
Tgt Ion:	119	Resp:	5571
Ion	Ratio	Lower	Upper
119	100		
134	16.3	12.7	38.0
91	27.1	12.5	37.5



#94
 Hexachlorobutadiene
 Concen: 0.386 ug/l
 RT: 15.482 min Scan# 2300
 Delta R.T. 0.006 min
 Lab File: VN088180.D
 Acq: 31 Oct 2025 12:16

Tgt Ion:	225	Resp:	721
Ion	Ratio	Lower	Upper
225	100		
223	29.5	32.0	96.2#
227	34.1	32.1	96.5





#95
 Naphthalene
 Concen: 0.486 ug/l
 RT: 15.623 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN088180.D
 Acq: 31 Oct 2025 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW3-251023-01

Tgt Ion:	128	Resp:	8336
Ion Ratio	Lower	Upper	
128	100		
127	32.8	10.6	15.8#
129	46.1	8.6	12.8#

