

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087520.D
 Acq On : 12 Aug 2025 17:19
 Operator : JC\MD
 Sample : Q2816-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1056-MW-02(23.8)

Quant Time: Aug 13 03:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

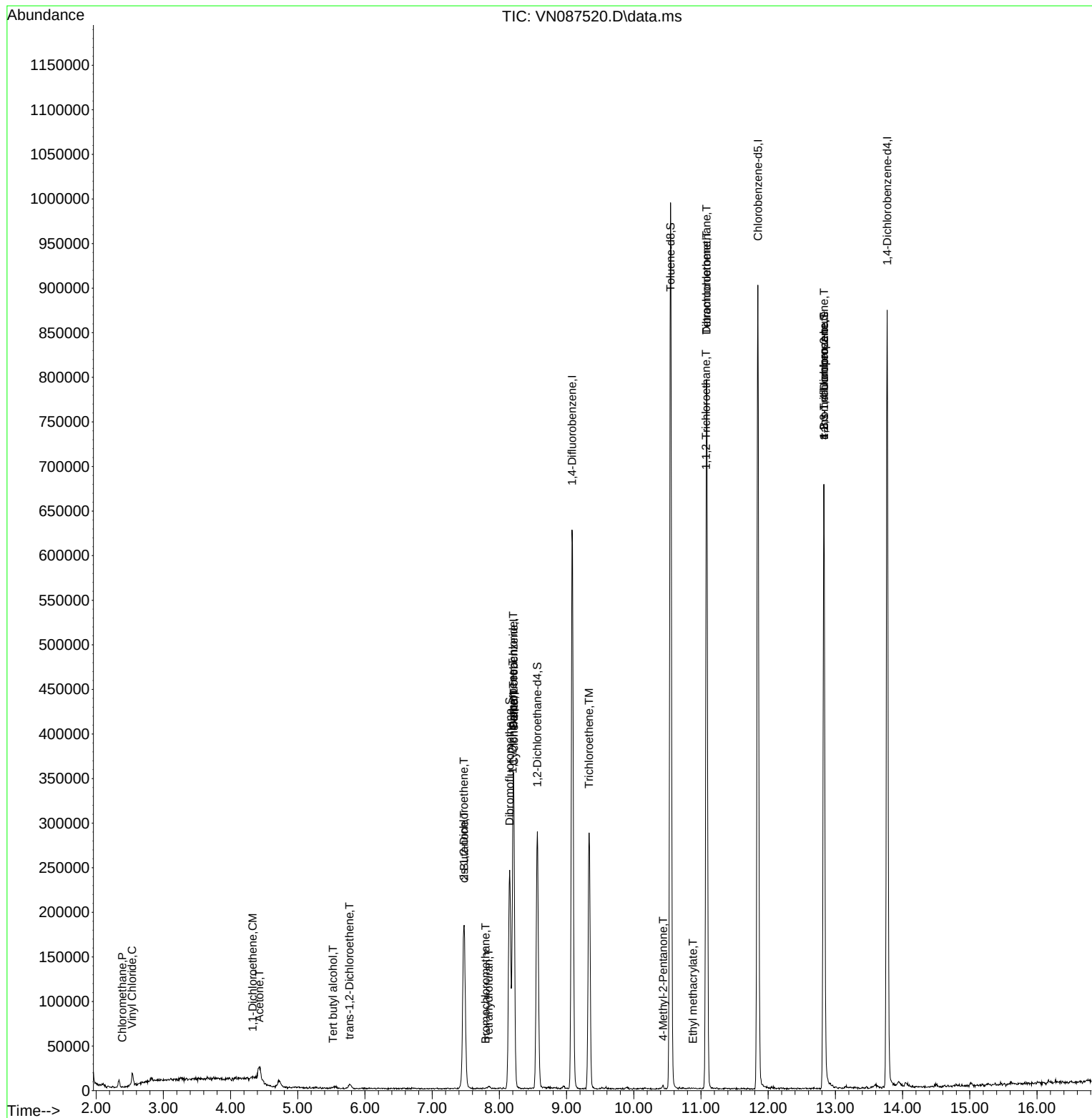
Internal Standards						
1) Pentafluorobenzene	8.212	168	238630	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	517594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	473697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	220538	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	244400	60.360	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.720%	
35) Dibromofluoromethane	8.153	113	176216	49.355	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.720%	
50) Toluene-d8	10.547	98	653820	51.337	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.680%	
62) 4-Bromofluorobenzene	12.829	95	239200	50.836	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 101.680%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	729	0.229	ug/l	97
4) Vinyl Chloride	2.536	62	7940	2.507	ug/l	92
11) Tert butyl alcohol	5.524	59	935	1.216	ug/l #	73
12) 1,1-Dichloroethene	4.330	96	1063	0.390	ug/l #	39
16) Acetone	4.430	43	28412	14.966	ug/l #	89
20) Methylene Chloride	5.271	84	267	Below Cal	#	53
21) trans-1,2-Dichloroethene	5.771	96	3503	1.140	ug/l #	80
25) 2-Butanone	7.477	43	7078	2.413	ug/l #	48
27) cis-1,2-Dichloroethene	7.471	96	106477	30.105	ug/l	93
28) Bromochloromethane	7.794	49	695	0.243	ug/l #	51
29) Tetrahydrofuran	7.841	42	2171	1.139	ug/l #	72
31) Cyclohexane	8.218	56	8480	1.704	ug/l #	48
36) 1,1-Dichloropropene	8.200	75	24746	5.246	ug/l #	51
38) Carbon Tetrachloride	8.206	117	28796	5.542	ug/l #	13
44) Trichloroethene	9.335	130	95371	26.475	ug/l	87
51) 4-Methyl-2-Pentanone	10.435	43	2672	0.399	ug/l #	85
55) 1,1,2-Trichloroethane	11.077	97	1906	0.508	ug/l #	28
56) Ethyl methacrylate	10.882	69	96	0.650	ug/l #	1
60) Dibromochloromethane	11.082	129	166169	38.838	ug/l #	10
64) Tetrachloroethene	11.082	164	164586	53.985	ug/l	93
76) 1,2,3-Trichloropropane	12.829	75	138110	27.927	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	138110	76.413	ug/l #	8

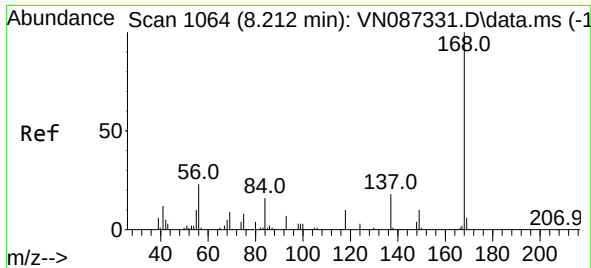
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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1056-MW-02(23.8)

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Response via : Initial Calibration

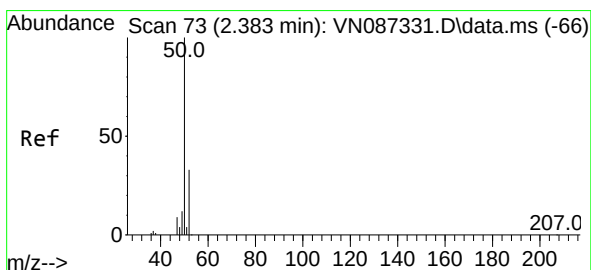
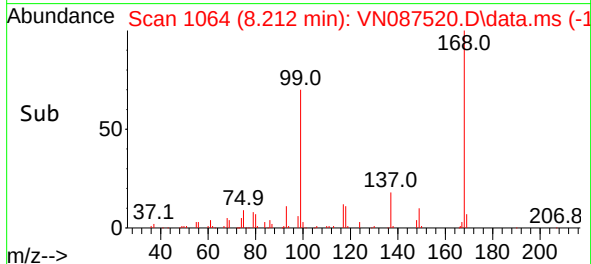
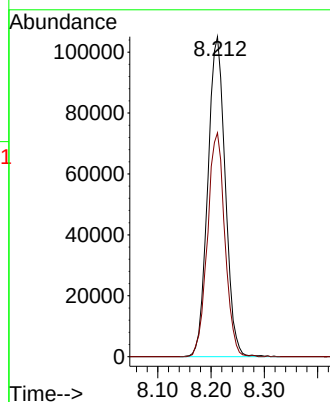
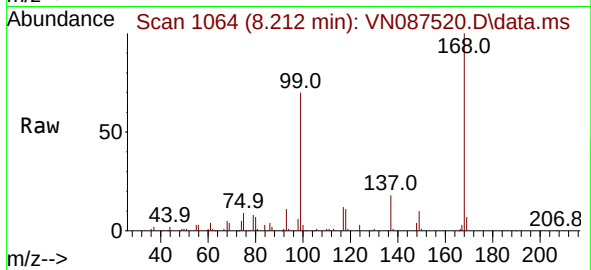




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

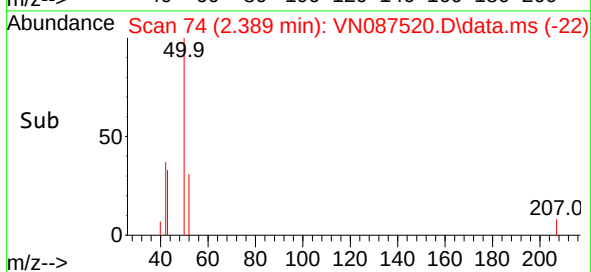
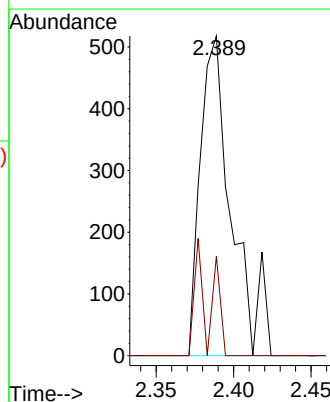
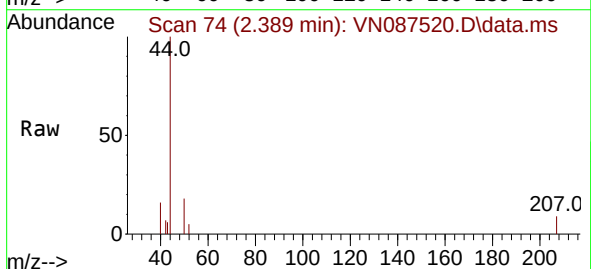
Instrument :
MSVOA_N
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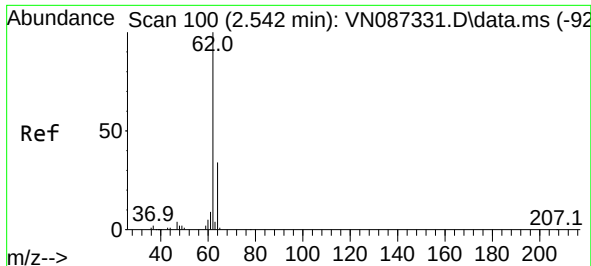
Tgt Ion:168 Resp: 238630
Ion Ratio Lower Upper
168 100
99 70.0 47.9 71.9



#3
Chloromethane
Concen: 0.229 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 50 Resp: 729
Ion Ratio Lower Upper
50 100
52 31.1 26.3 39.5

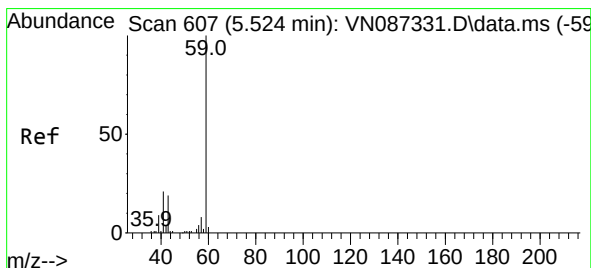
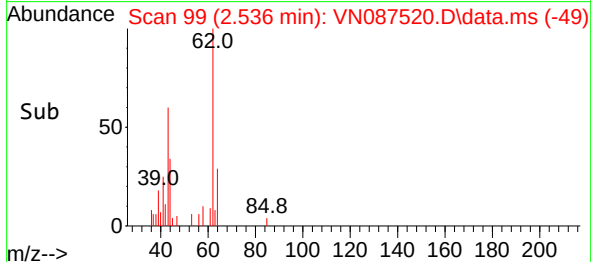
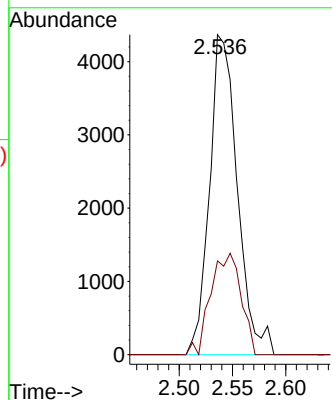
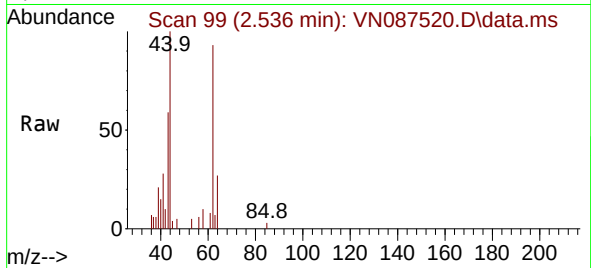




#4
 Vinyl Chloride
 Concen: 2.507 ug/l
 RT: 2.536 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

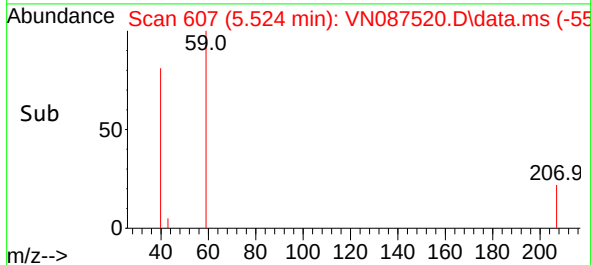
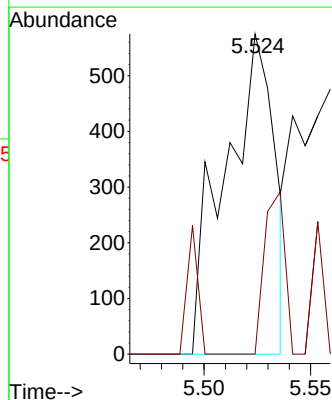
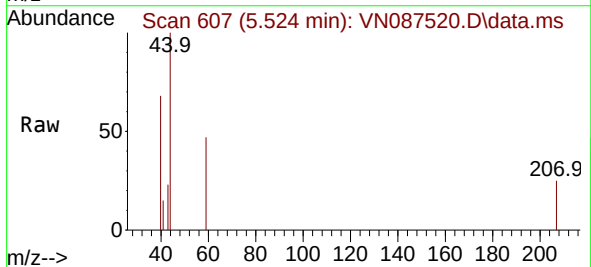
Instrument :
 MSVOA_N
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 1056-MW-02(23.8)

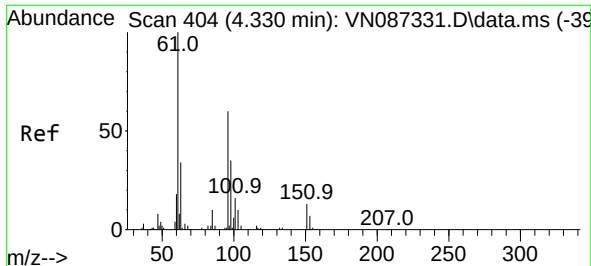
Tgt Ion: 62 Resp: 7940
 Ion Ratio Lower Upper
 62 100
 64 29.3 27.0 40.6



#11
 Tert butyl alcohol
 Concen: 1.216 ug/l
 RT: 5.524 min Scan# 607
 Delta R.T. 0.000 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

Tgt Ion: 59 Resp: 935
 Ion Ratio Lower Upper
 59 100
 57 20.6 8.3 12.5

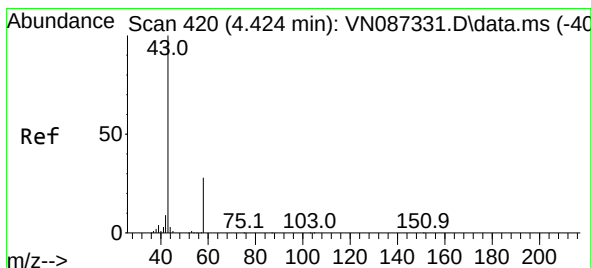
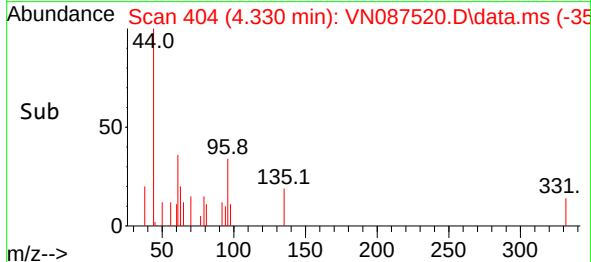
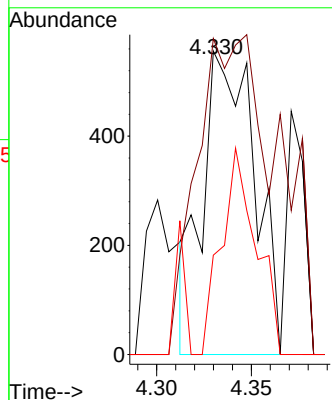
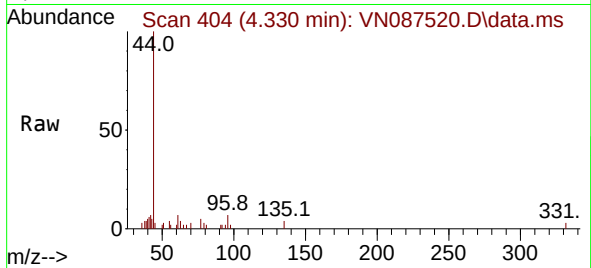




#12
 1,1-Dichloroethene
 Concen: 0.390 ug/l
 RT: 4.330 min Scan# 404
 Delta R.T. 0.000 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

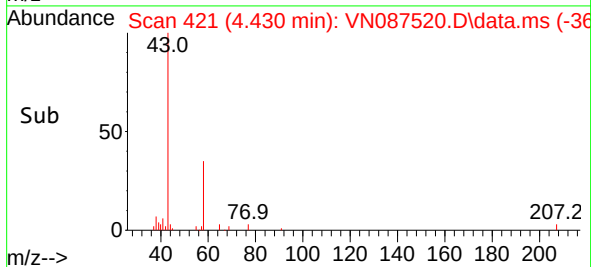
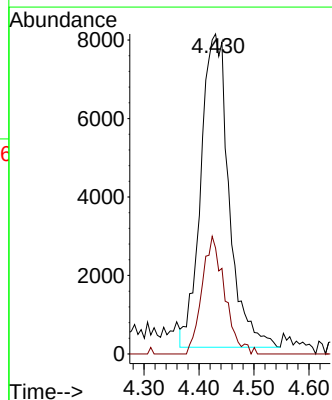
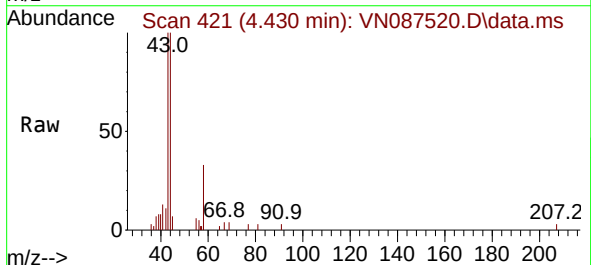
Instrument :
 MSVOA_N
 ClientSampleId :
 1056-MW-02(23.8)

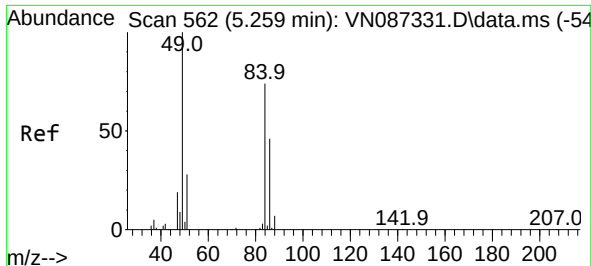
Tgt Ion: 96 Resp: 1063
 Ion Ratio Lower Upper
 96 100
 61 71.4 132.3 198.5#
 98 32.7 46.8 70.2#



#16
 Acetone
 Concen: 14.966 ug/l
 RT: 4.430 min Scan# 421
 Delta R.T. 0.006 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

Tgt Ion: 43 Resp: 28412
 Ion Ratio Lower Upper
 43 100
 58 33.8 22.3 33.5#

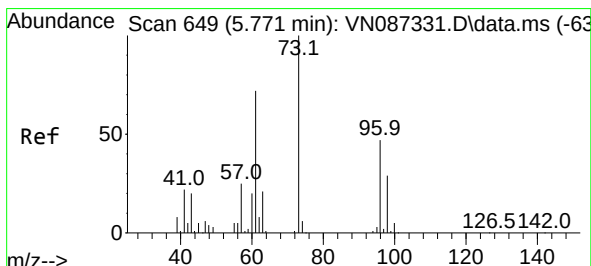
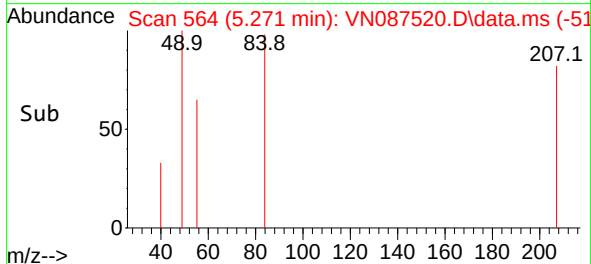
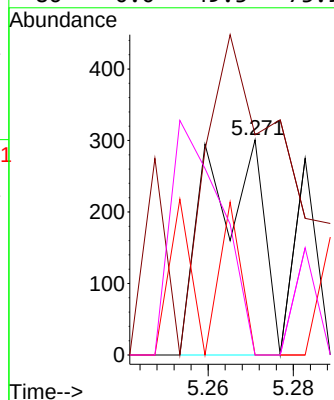
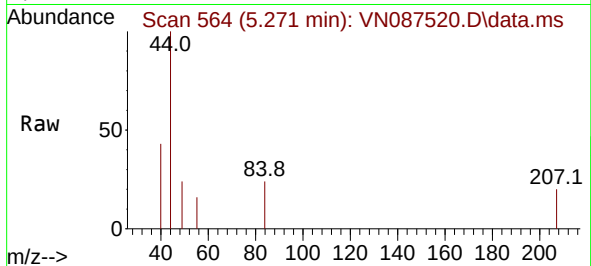




#20
Methylene Chloride
Concen: Below Cal
RT: 5.271 min Scan# 564
Delta R.T. 0.012 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

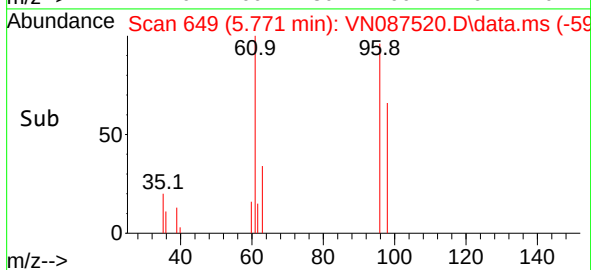
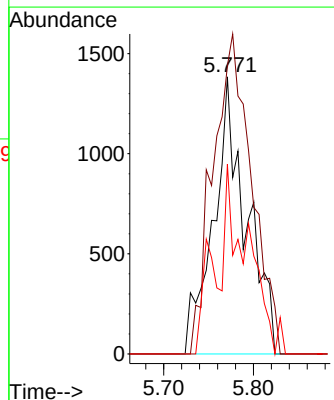
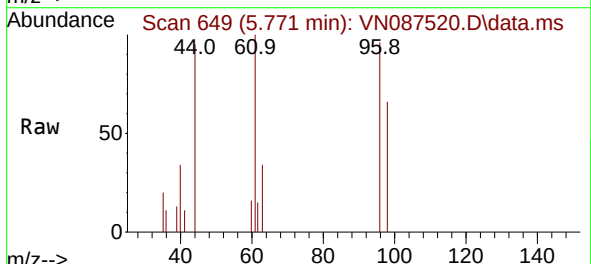
Instrument :
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ClientSampleId :
1056-MW-02(23.8)

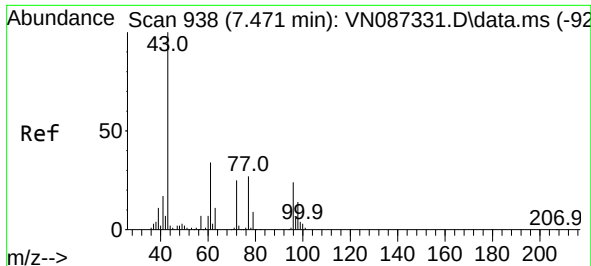
Tgt Ion:	84	Resp:	267
Ion	Ratio	Lower	Upper
84	100		
49	102.3	107.5	161.3#
51	0.0	30.2	45.2#
86	0.0	49.3	73.9#



#21
trans-1,2-Dichloroethene
Concen: 1.140 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion:	96	Resp:	3503
Ion	Ratio	Lower	Upper
96	100		
61	119.9	122.0	183.0#
98	68.5	50.0	75.0

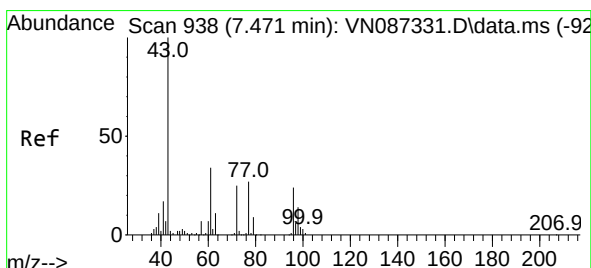
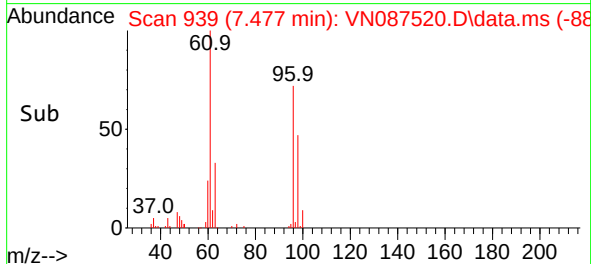
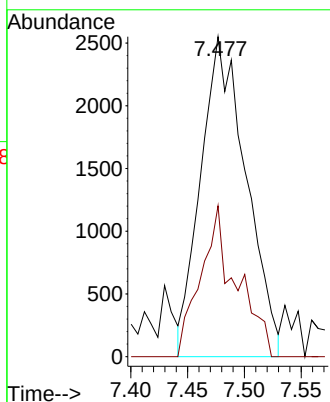
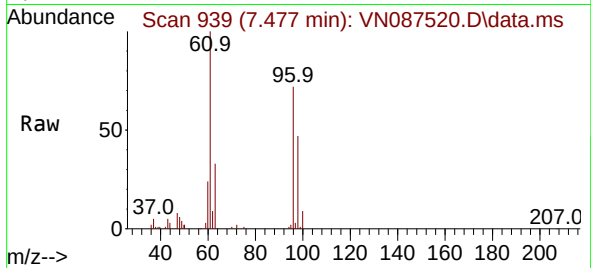




#25
2-Butanone
Concen: 2.413 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

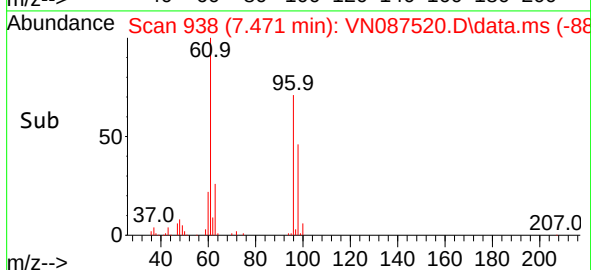
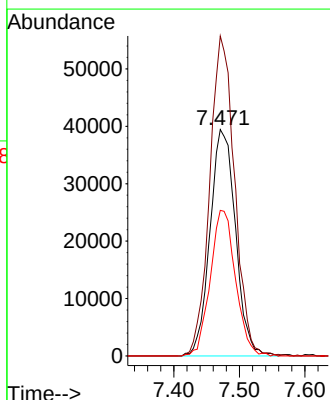
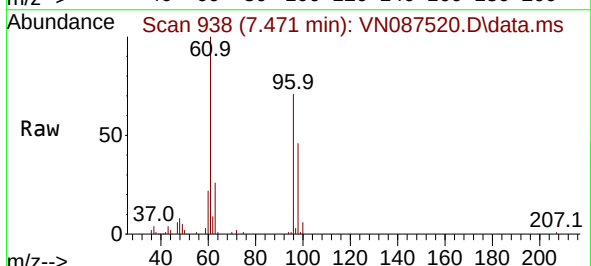
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1056-MW-02(23.8)

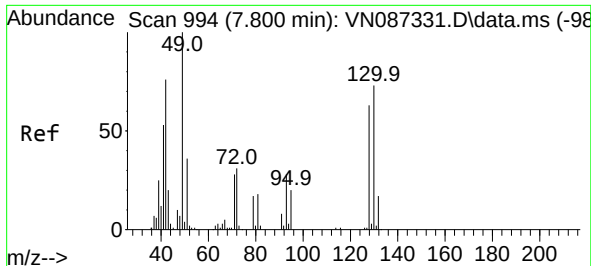
Tgt Ion: 43 Resp: 7078
Ion Ratio Lower Upper
43 100
72 50.6 19.6 29.4#



#27
cis-1,2-Dichloroethene
Concen: 30.105 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 96 Resp: 106477
Ion Ratio Lower Upper
96 100
61 138.0 0.0 297.8
98 63.7 0.0 132.4

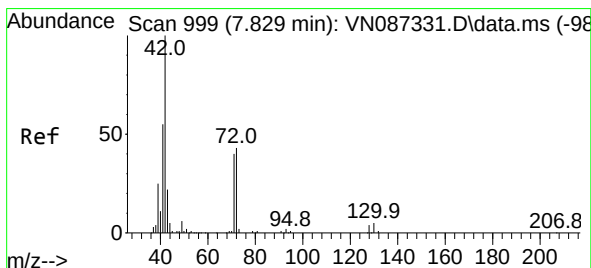
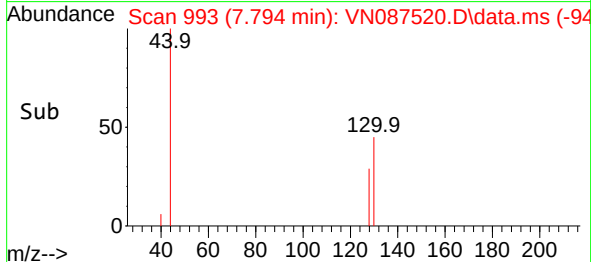
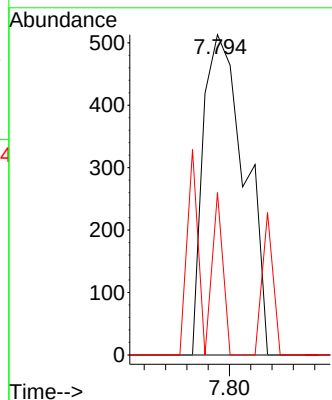
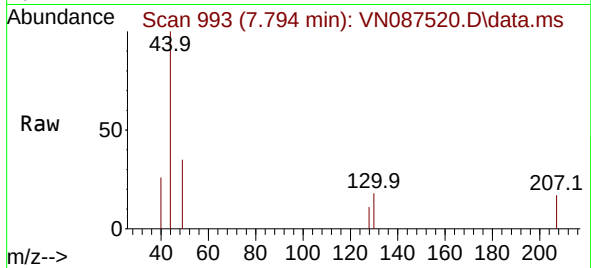




#28
Bromochloromethane
Concen: 0.243 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

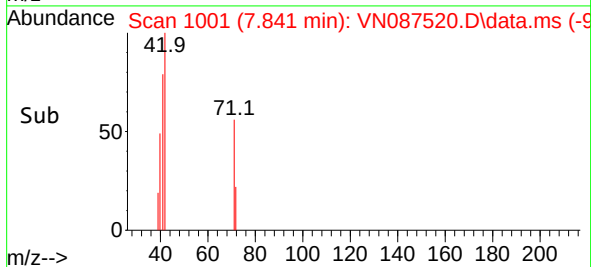
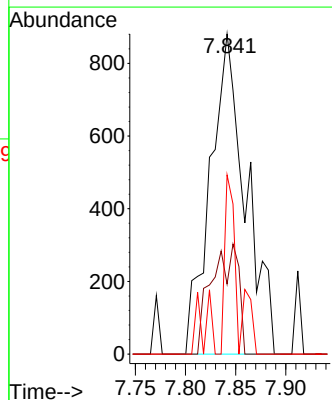
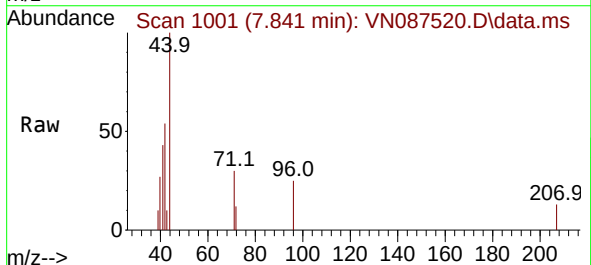
Instrument :
MSVOA_N
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1056-MW-02(23.8)

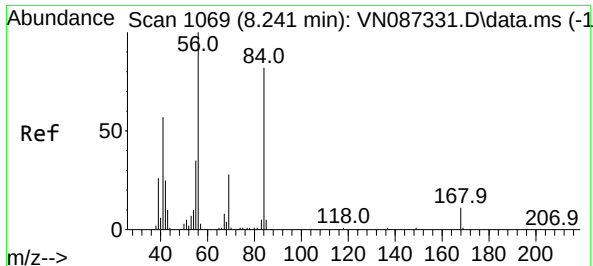
Tgt Ion: 49 Resp: 695
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 29.9 57.3 85.9#



#29
Tetrahydrofuran
Concen: 1.139 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 42 Resp: 2171
Ion Ratio Lower Upper
42 100
72 26.1 33.4 50.0#
71 20.0 31.2 46.8#

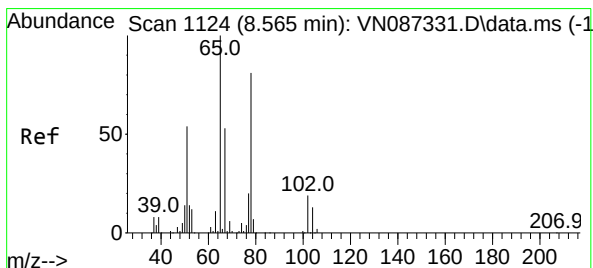
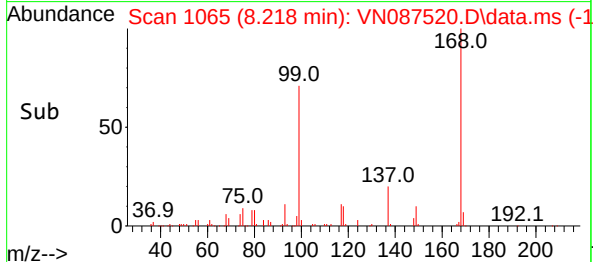
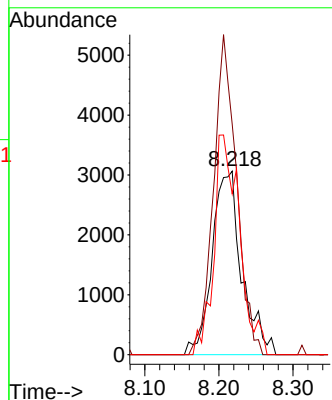
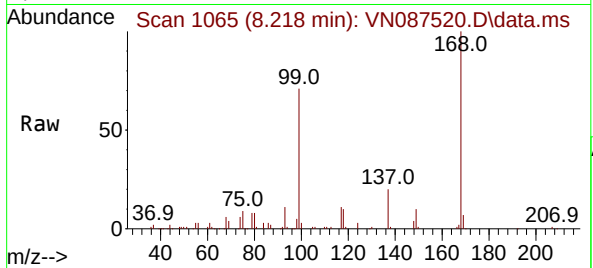




#31
Cyclohexane
Concen: 1.704 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.023 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

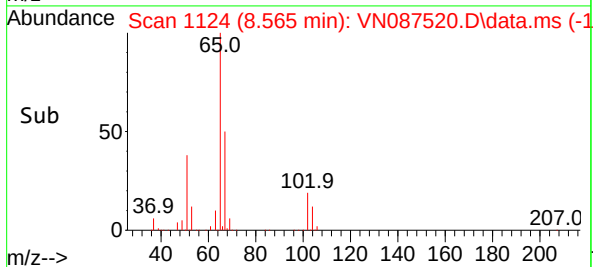
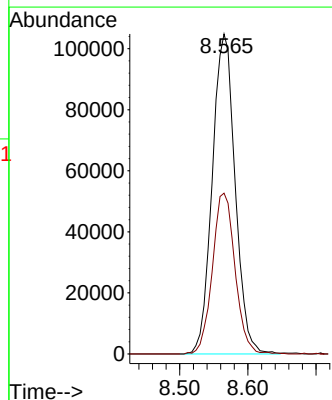
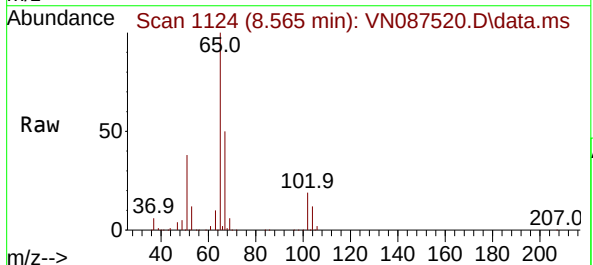
Instrument :
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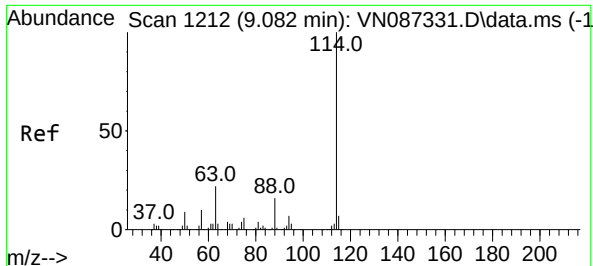
Tgt Ion: 56 Resp: 8480
Ion Ratio Lower Upper
56 100
69 125.6 22.7 34.1#
84 87.6 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 60.360 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 65 Resp: 244400
Ion Ratio Lower Upper
65 100
67 49.8 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.001 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

1056-MW-02(23.8)

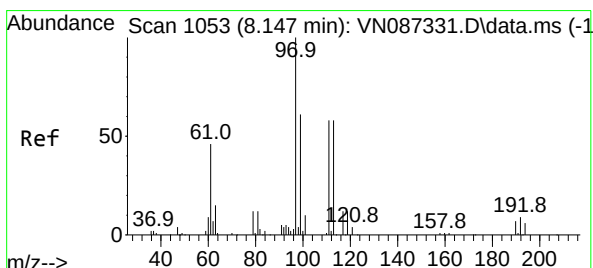
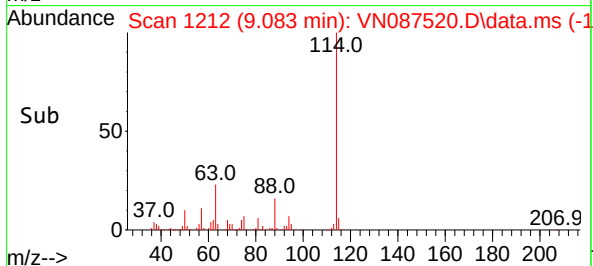
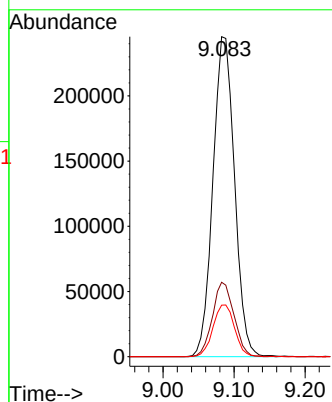
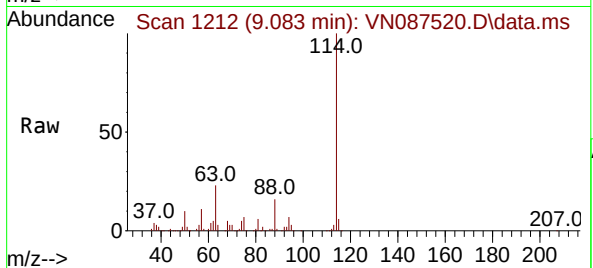
Tgt Ion:114 Resp: 517594

Ion Ratio Lower Upper

114 100

63 23.3 0.0 44.6

88 16.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.355 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

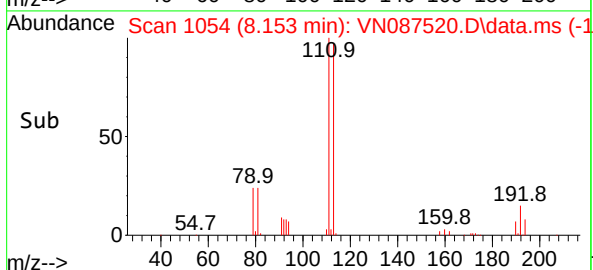
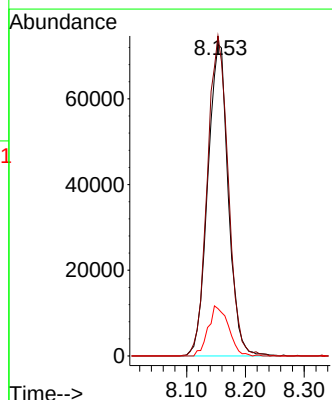
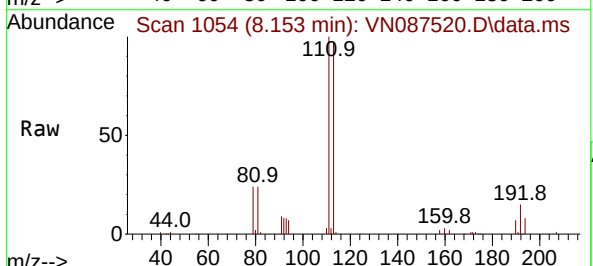
Tgt Ion:113 Resp: 176216

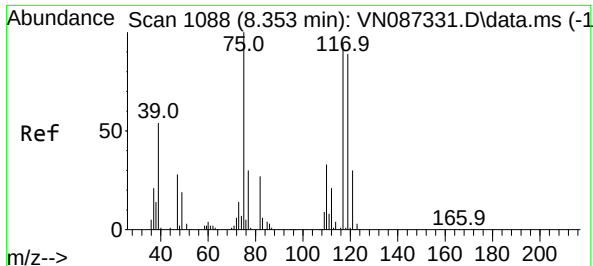
Ion Ratio Lower Upper

113 100

111 104.1 82.5 123.7

192 15.9 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.246 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

1056-MW-02(23.8)

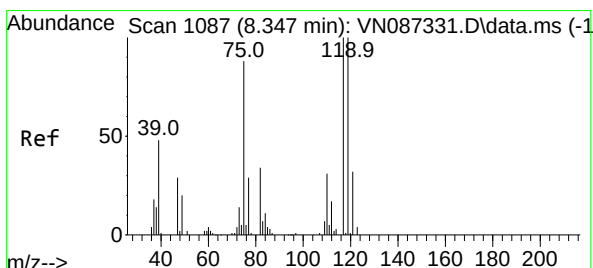
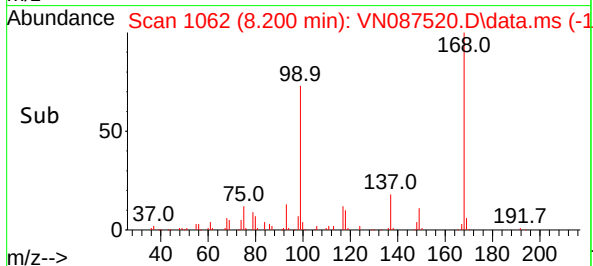
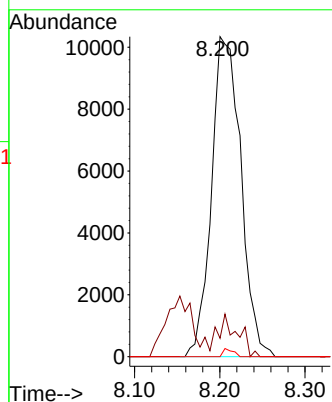
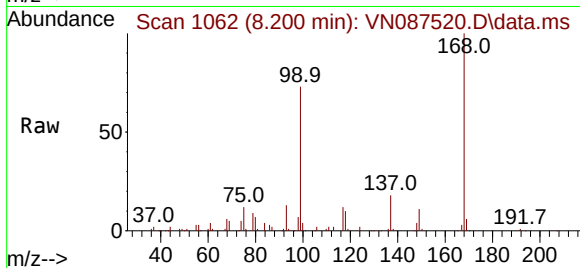
Tgt Ion: 75 Resp: 24746

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

77 0.9 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.542 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

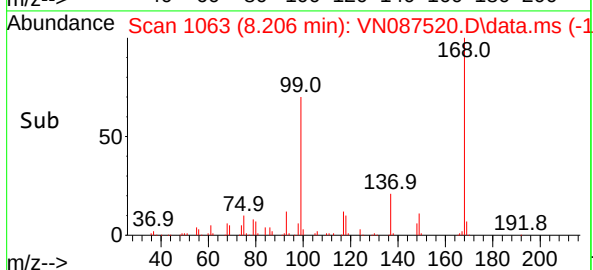
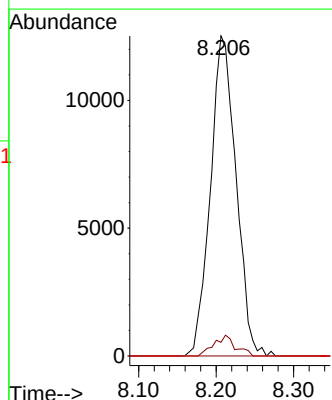
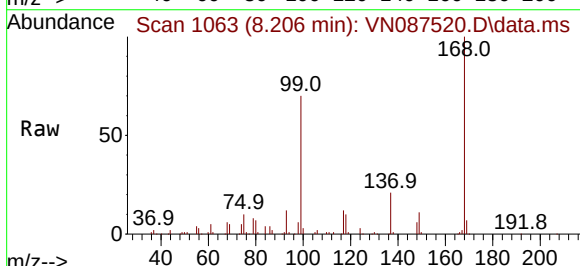
Tgt Ion: 117 Resp: 28796

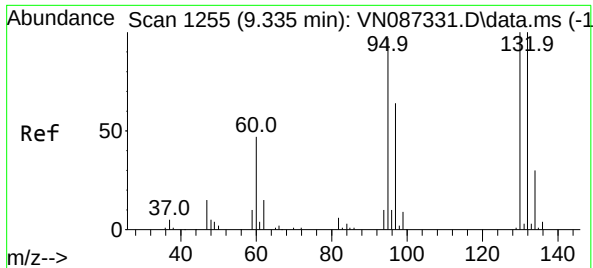
Ion Ratio Lower Upper

117 100

119 4.2 80.2 120.2#

121 0.0 25.4 38.2#

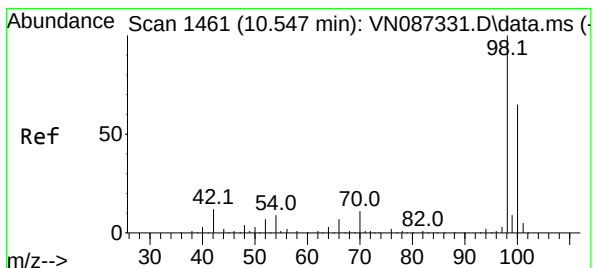
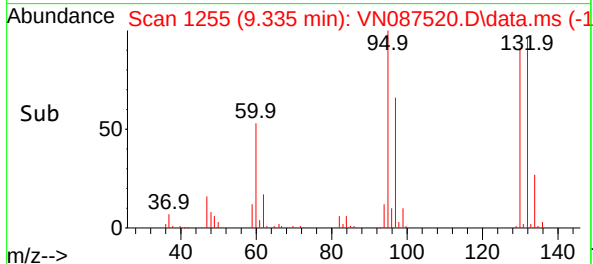
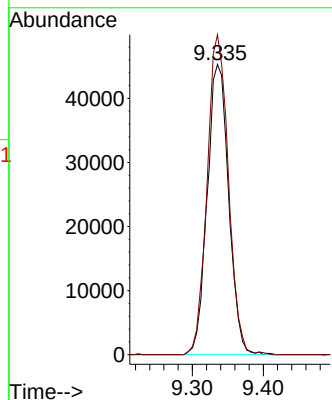
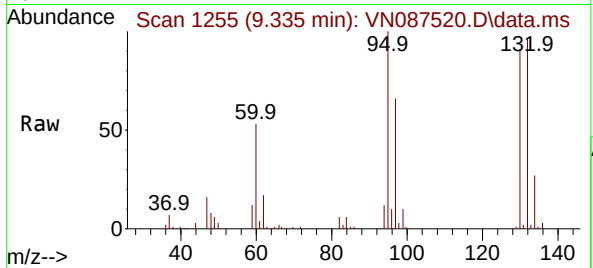




#44
Trichloroethene
Concen: 26.475 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

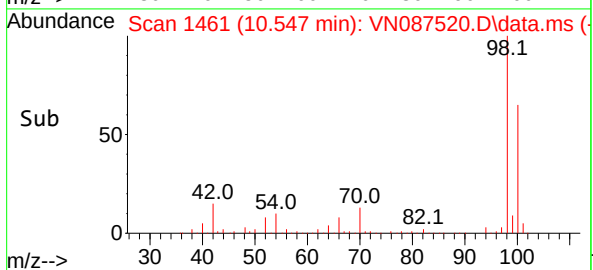
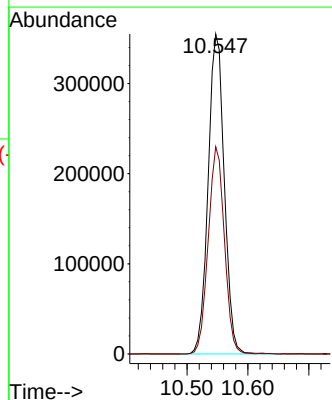
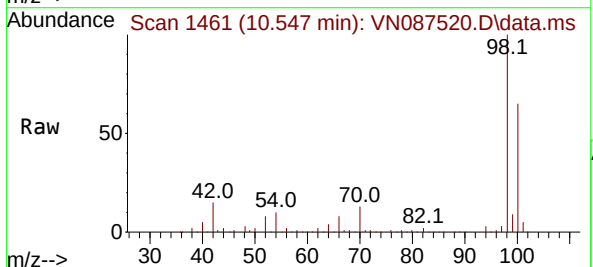
Instrument :
MSVOA_N
ClientSampleId :
1056-MW-02(23.8)

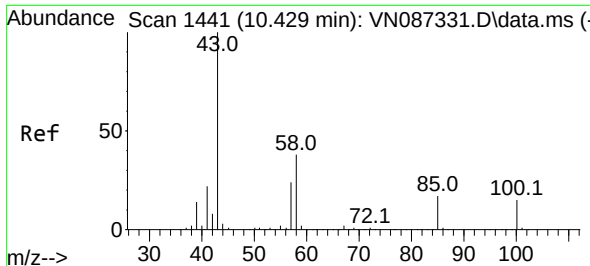
Tgt Ion:130 Resp: 95371
Ion Ratio Lower Upper
130 100
95 110.3 0.0 195.2



#50
Toluene-d8
Concen: 51.337 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 98 Resp: 653820
Ion Ratio Lower Upper
98 100
100 64.8 52.1 78.1

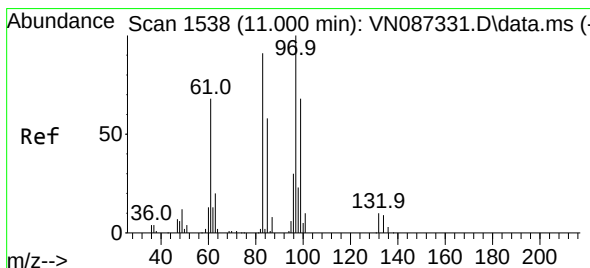
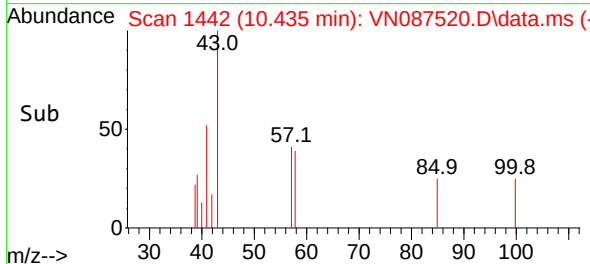
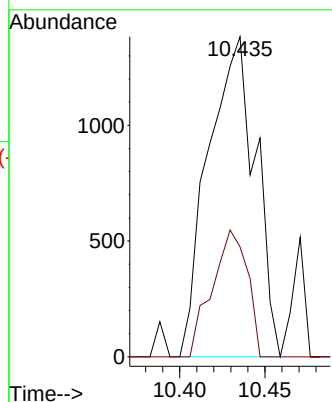
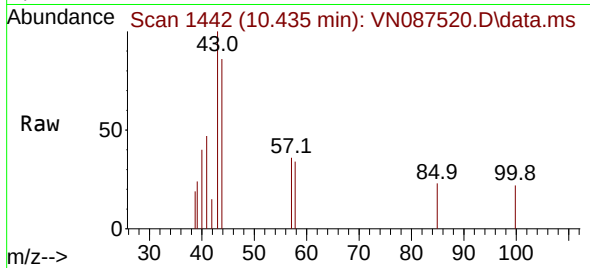




#51
4-Methyl-2-Pentanone
Concen: 0.399 ug/l
RT: 10.435 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

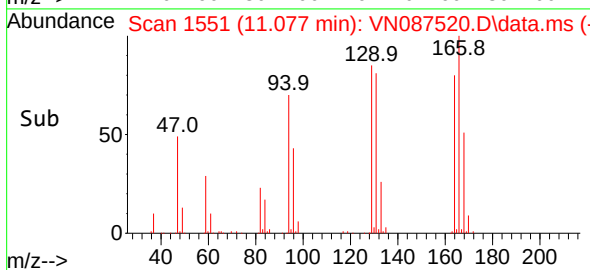
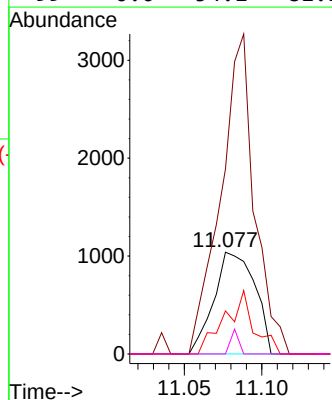
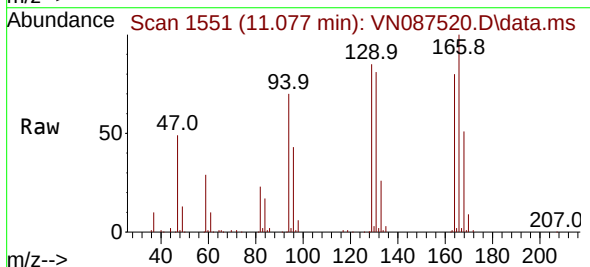
Instrument :
MSVOA_N
ClientSampleId :
1056-MW-02(23.8)

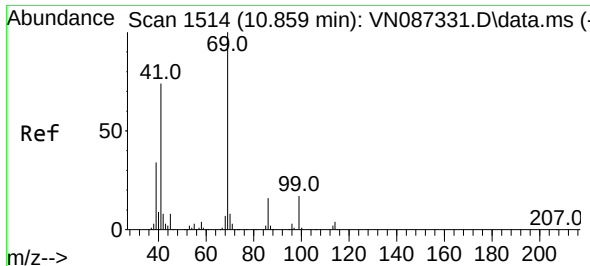
Tgt Ion: 43 Resp: 2672
Ion Ratio Lower Upper
43 100
58 29.6 30.8 46.2#



#55
1,1,2-Trichloroethane
Concen: 0.508 ug/l
RT: 11.077 min Scan# 1551
Delta R.T. 0.077 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 97 Resp: 1906
Ion Ratio Lower Upper
97 100
83 182.1 72.6 109.0#
85 42.3 46.7 70.1#
99 0.0 54.1 81.1#

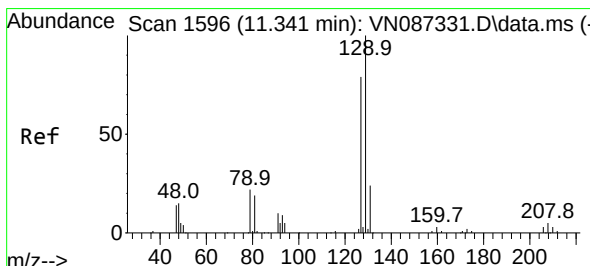
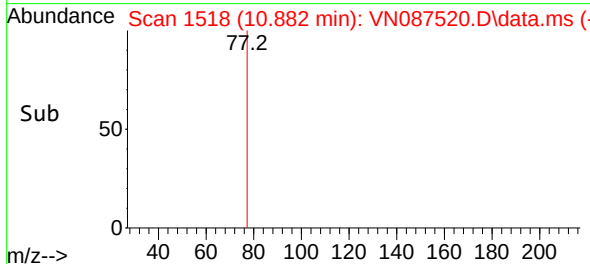
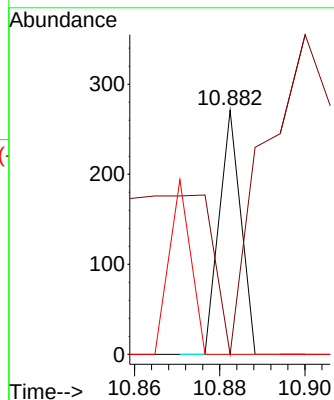
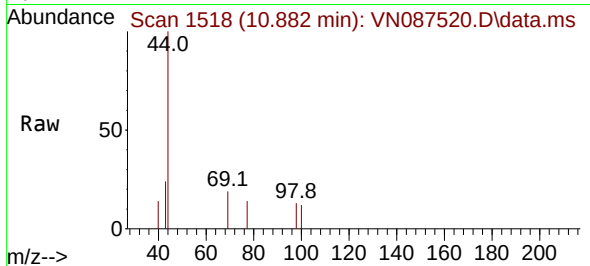




#56
 Ethyl methacrylate
 Concen: 0.650 ug/l
 RT: 10.882 min Scan# 11
 Delta R.T. 0.023 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

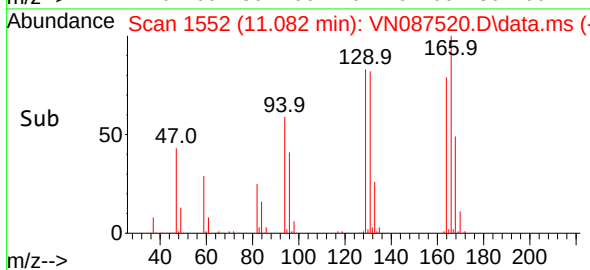
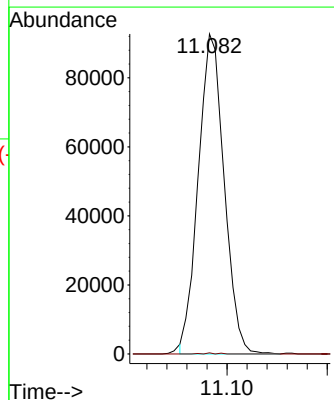
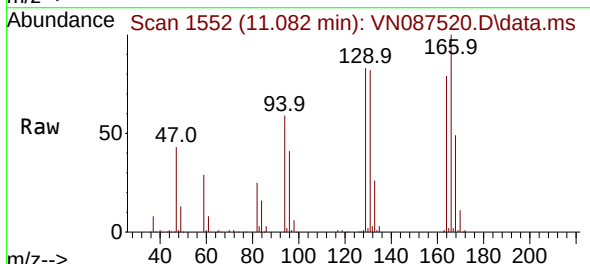
Instrument :
 MSVOA_N
 ClientSampleId :
 1056-MW-02(23.8)

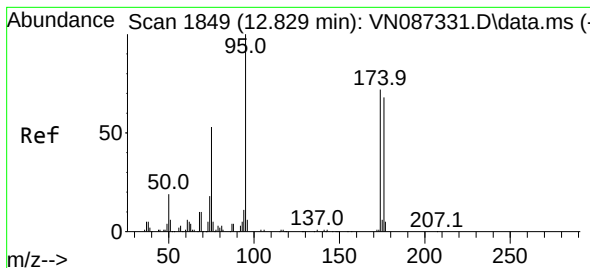
Tgt Ion: 69 Resp: 96
 Ion Ratio Lower Upper
 69 100
 41 258.3 55.1 82.7#
 39 70.8 27.9 41.9#



#60
 Dibromochloromethane
 Concen: 38.838 ug/l
 RT: 11.082 min Scan# 1552
 Delta R.T. -0.259 min
 Lab File: VN087520.D
 Acq: 12 Aug 2025 17:19

Tgt Ion: 129 Resp: 166169
 Ion Ratio Lower Upper
 129 100
 127 0.2 39.1 117.5#

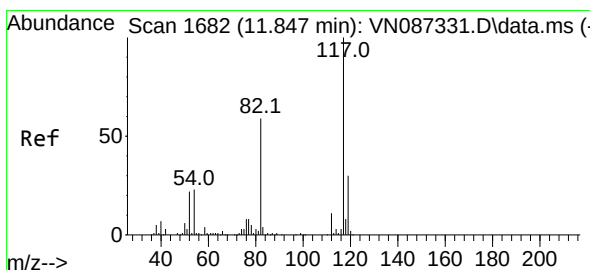
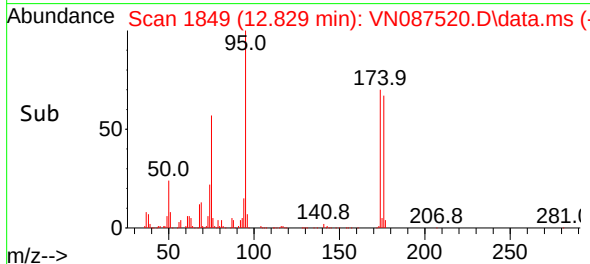
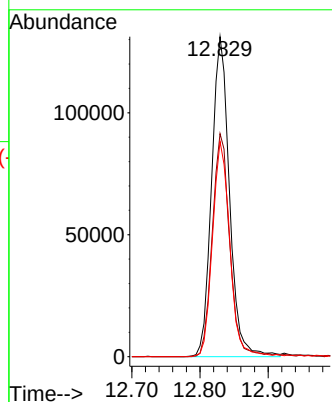
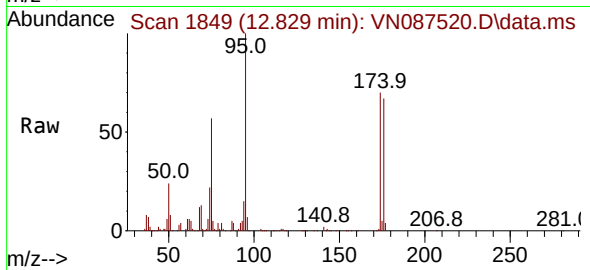




#62
4-Bromofluorobenzene
Concen: 50.836 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

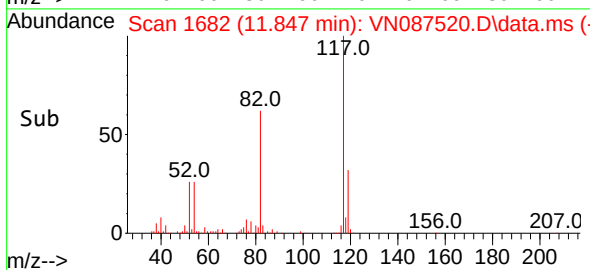
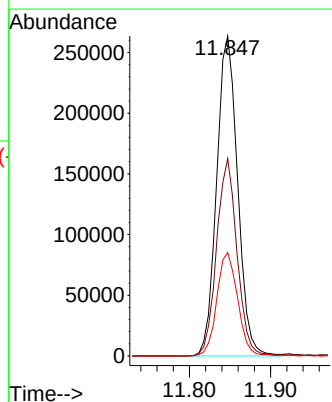
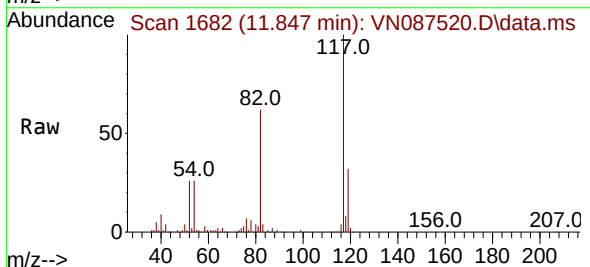
Instrument :
MSVOA_N
ClientSampleId :
1056-MW-02(23.8)

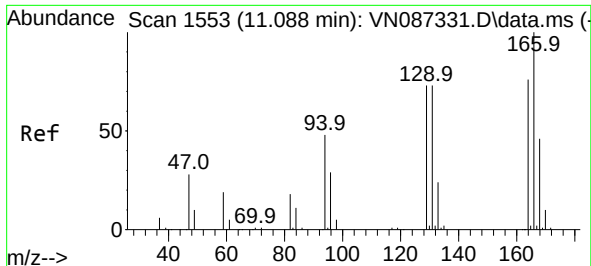
Tgt Ion: 95 Resp: 239200
Ion Ratio Lower Upper
95 100
174 68.7 0.0 149.4
176 65.2 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion: 117 Resp: 473697
Ion Ratio Lower Upper
117 100
82 61.7 47.4 71.2
119 32.4 23.8 35.8

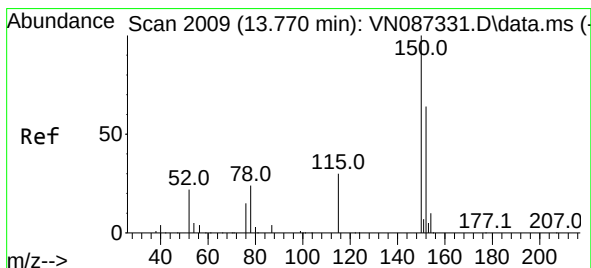
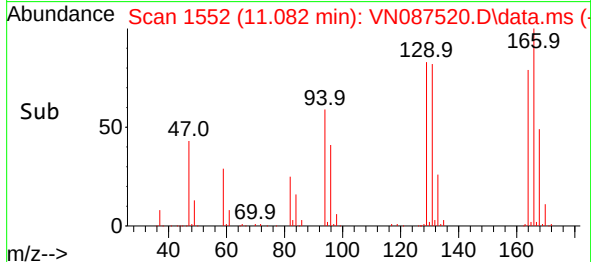
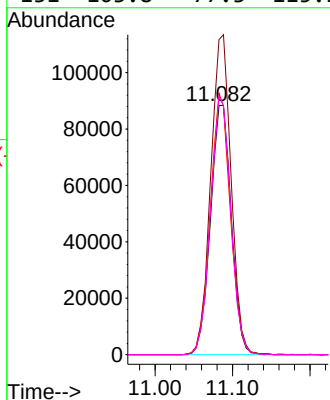
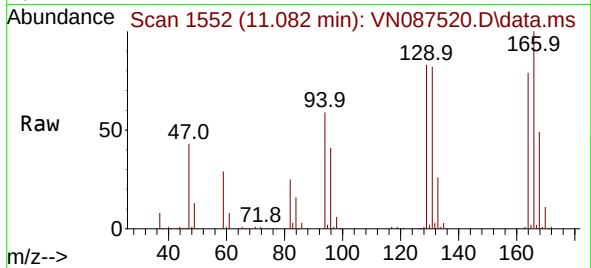




#64
Tetrachloroethene
Concen: 53.985 ug/l
RT: 11.082 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

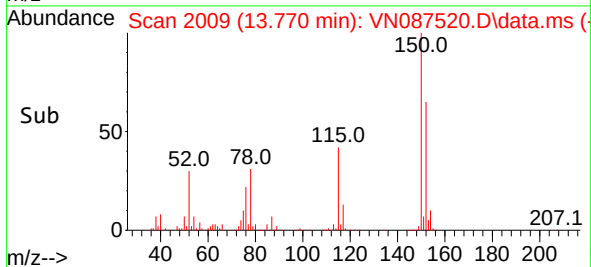
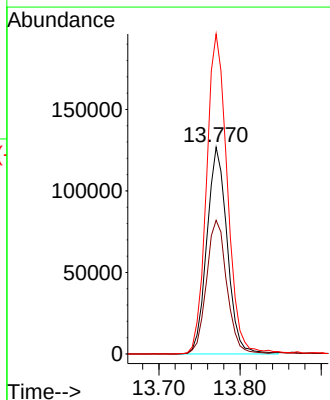
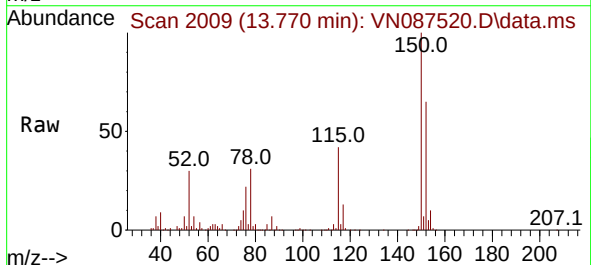
Instrument :
MSVOA_N
ClientSampleId :
1056-MW-02(23.8)

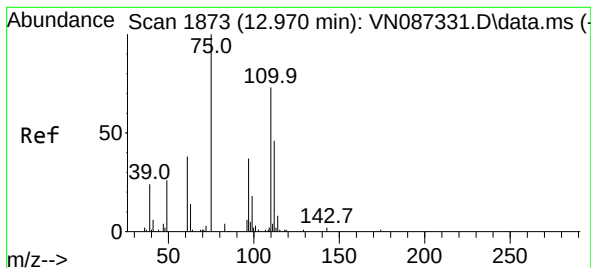
Tgt	Ion:164	Resp:	164586
Ion	Ratio	Lower	Upper
164	100		
166	126.4	105.5	158.3
129	104.9	77.4	116.2
131	103.8	77.3	115.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087520.D
Acq: 12 Aug 2025 17:19

Tgt Ion:152	Resp: 220538		
Ion Ratio	Lower	Upper	
152	100		
115	64.8	31.1	93.5
150	158.8	0.0	349.0





#76

1,2,3-Trichloropropane

Concen: 27.927 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

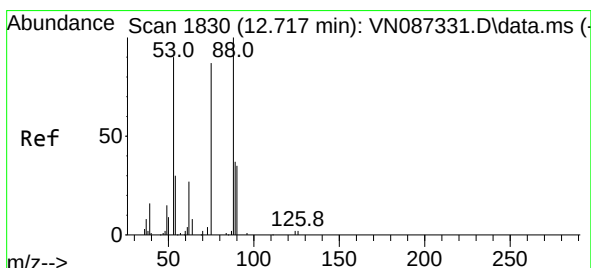
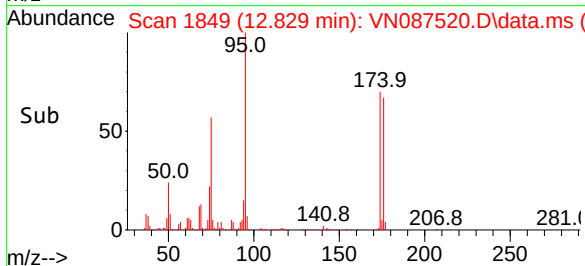
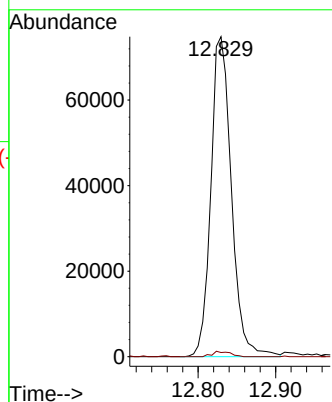
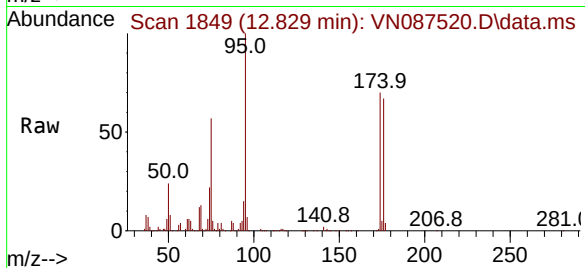
1056-MW-02(23.8)

Tgt Ion: 75 Resp: 138110

Ion Ratio Lower Upper

75 100

77 1.4 94.5 283.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.413 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087520.D

Acq: 12 Aug 2025 17:19

Tgt Ion: 75 Resp: 138110

Ion Ratio Lower Upper

75 100

53 0.0 83.5 125.3#

89 0.1 38.4 57.6#

