

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092625\
 Data File : VN087971.D
 Acq On : 26 Sep 2025 16:52
 Operator : JC\MD
 Sample : Q3183-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

Quant Time: Sep 27 01:28:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

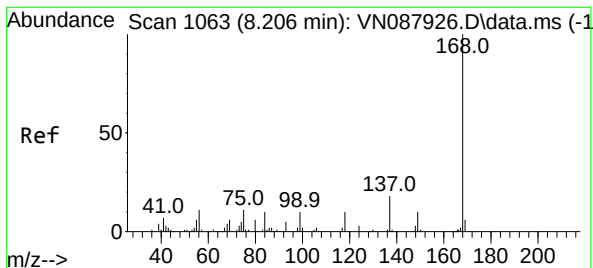
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	184028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	417020	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	441155	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	196761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	179594	57.989	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.980%			
35) Dibromofluoromethane	8.147	113	146531	48.395	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.800%			
50) Toluene-d8	10.547	98	531135	49.883	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.760%			
62) 4-Bromofluorobenzene	12.829	95	183380	48.183	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.360%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	1011	2.266	ug/l #	91
16) Acetone	4.424	43	30757	24.137	ug/l	97
18) Methyl Acetate	5.030	43	19697	6.177	ug/l	99
20) Methylene Chloride	5.271	84	17376	6.737	ug/l	91
25) 2-Butanone	7.471	43	4433	2.276	ug/l #	77
29) Tetrahydrofuran	7.830	42	800	0.641	ug/l #	67
31) Cyclohexane	8.206	56	5046	1.453	ug/l #	36
36) 1,1-Dichloropropene	8.212	75	17195	4.723	ug/l #	51
37) Ethyl Acetate	7.547	43	11992	2.508	ug/l #	93
38) Carbon Tetrachloride	8.212	117	20972	5.020	ug/l #	26
41) Methacrylonitrile	7.830	41	521	0.211	ug/l #	41
43) Isopropyl Acetate	8.677	43	15509	2.061	ug/l #	91
48) Methyl methacrylate	9.723	41	113410	32.543	ug/l #	42
49) 1,4-Dioxane	9.729	88	62	1.204	ug/l #	1
51) 4-Methyl-2-Pentanone	10.435	43	6650	1.416	ug/l #	82
54) cis-1,3-Dichloropropene	10.335	75	47281	9.508	ug/l #	64
57) 1,3-Dichloropropane	11.182	76	3801	0.751	ug/l #	42
59) 2-Hexanone	11.182	43	57714	18.587	ug/l #	54
74) N-amyl acetate	12.506	43	1202	0.299	ug/l #	60
76) 1,2,3-Trichloropropane	12.829	75	98646	25.433	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	98646	70.625	ug/l #	9
95) Naphthalene	15.617	128	3805	0.329	ug/l #	91

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

Quant Time: Sep 27 01:28:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

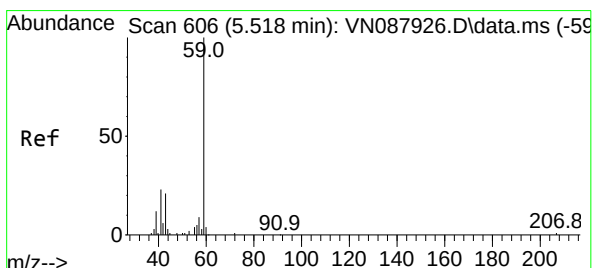
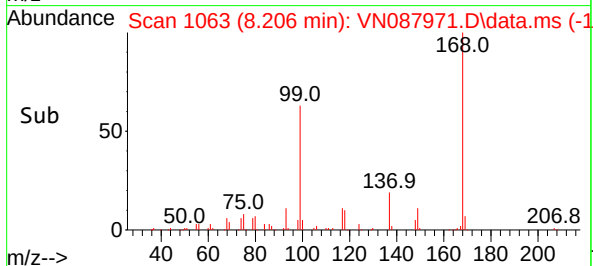
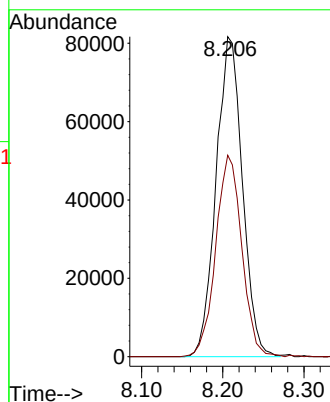
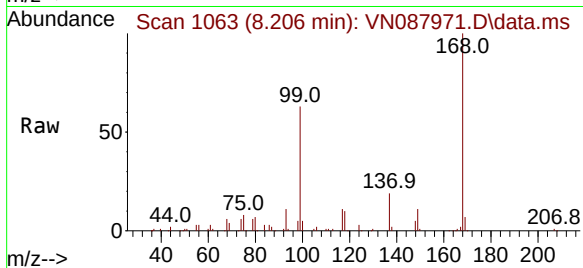




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

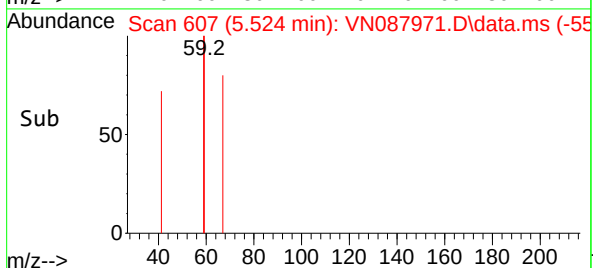
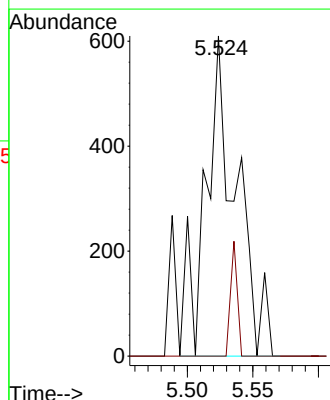
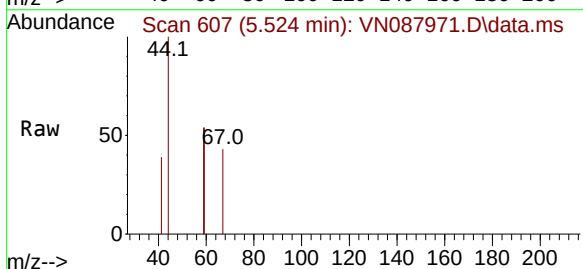
Instrument :
MSVOA_N
ClientSampleId :
WC-4

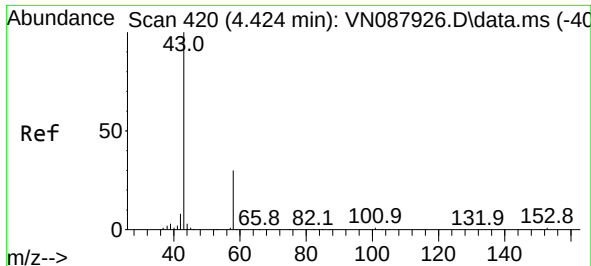
Tgt Ion:168 Resp: 184028
Ion Ratio Lower Upper
168 100
99 62.9 52.2 78.2



#11
Tert butyl alcohol
Concen: 2.266 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 59 Resp: 1011
Ion Ratio Lower Upper
59 100
57 7.6 8.8 13.2#

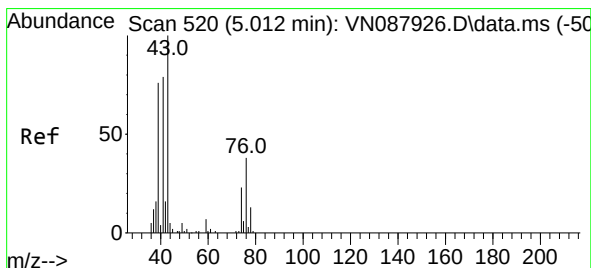
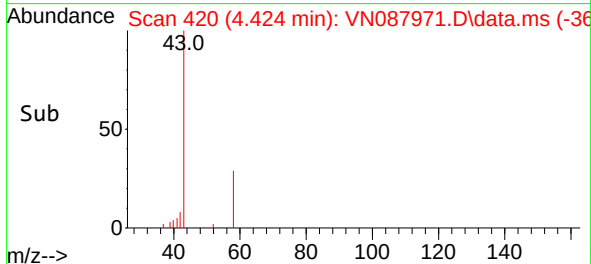
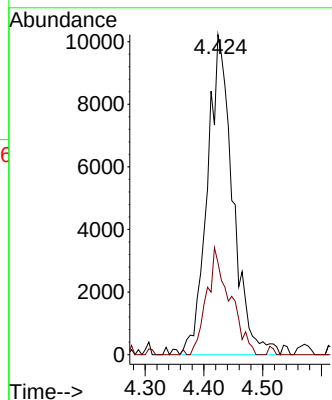
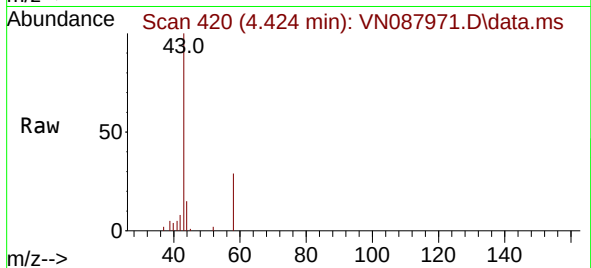




#16
Acetone
Concen: 24.137 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

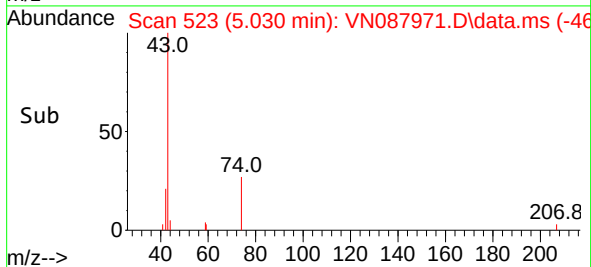
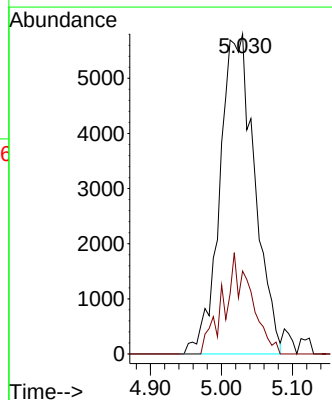
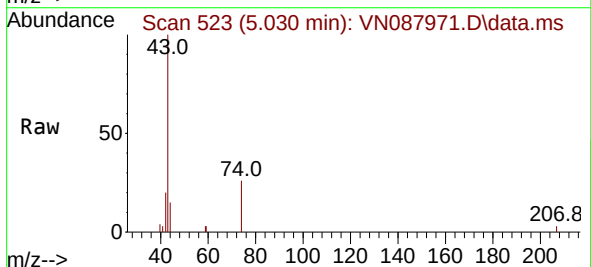
Instrument :
MSVOA_N
ClientSampleId :
WC-4

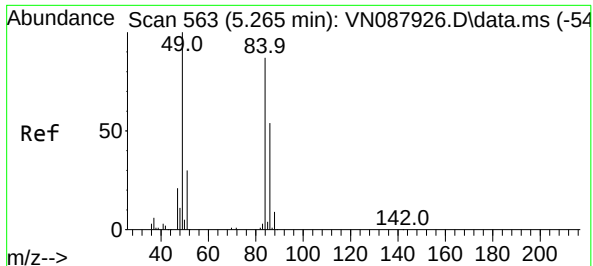
Tgt Ion: 43 Resp: 30757
Ion Ratio Lower Upper
43 100
58 28.7 24.1 36.1



#18
Methyl Acetate
Concen: 6.177 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 43 Resp: 19697
Ion Ratio Lower Upper
43 100
74 25.3 19.7 29.5

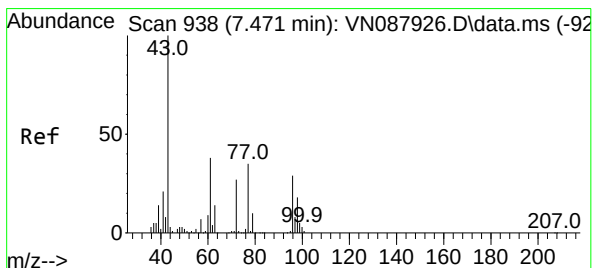
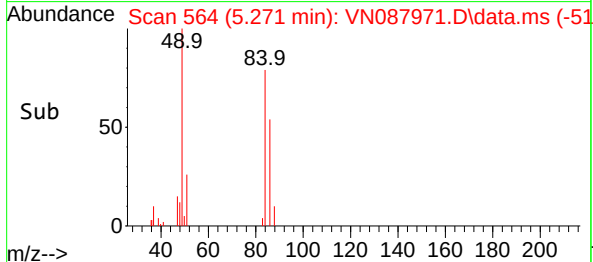
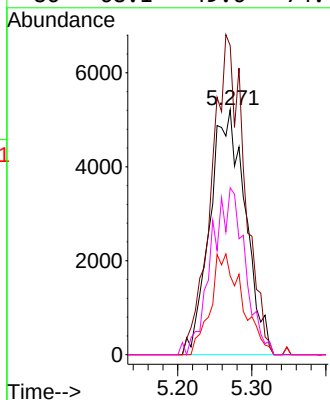
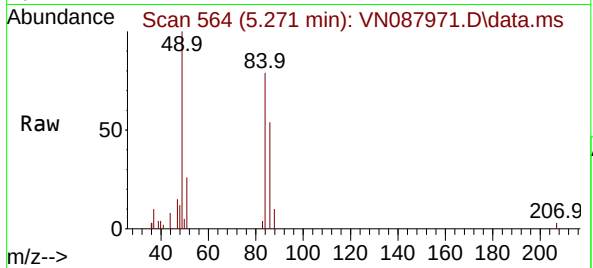




#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

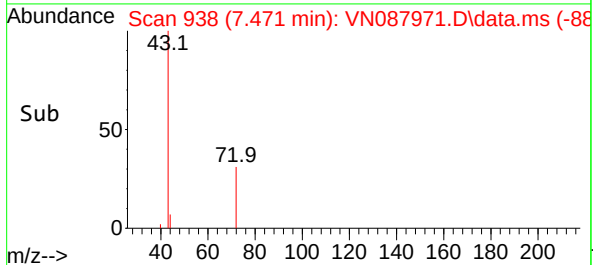
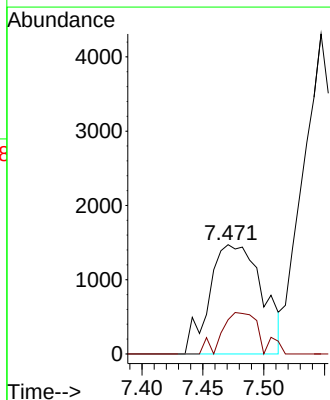
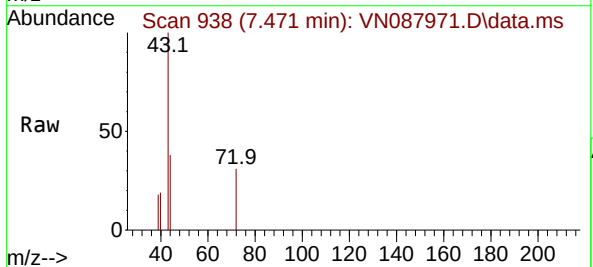
Instrument :
MSVOA_N
ClientSampleId :
WC-4

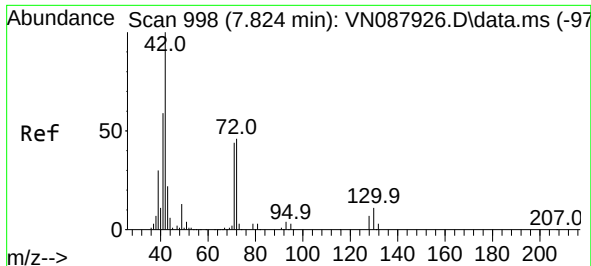
Tgt Ion:	84	Resp:	17376
Ion	Ratio	Lower	Upper
84	100		
49	126.2	92.1	138.1
51	32.2	27.7	41.5
86	68.1	49.6	74.4



#25
2-Butanone
Concen: 2.276 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion:	43	Resp:	4433
Ion	Ratio	Lower	Upper
43	100		
72	38.6	21.5	32.3#





#29

Tetrahydrofuran

Concen: 0.641 ug/l

RT: 7.830 min Scan# 998

Delta R.T. 0.006 min

Lab File: VN087971.D

Acq: 26 Sep 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

WC-4

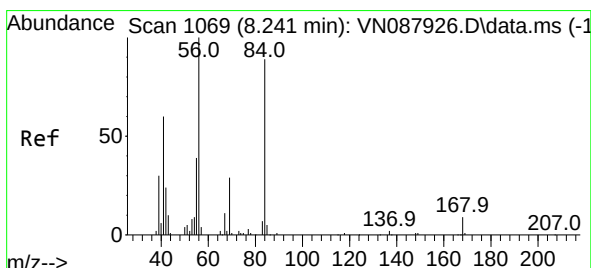
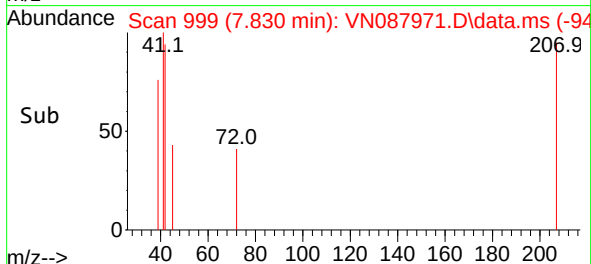
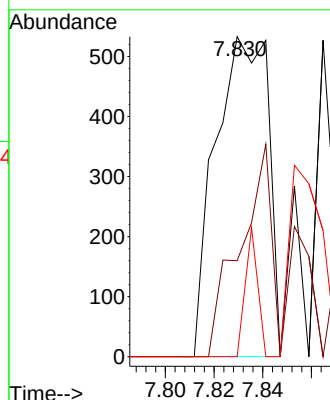
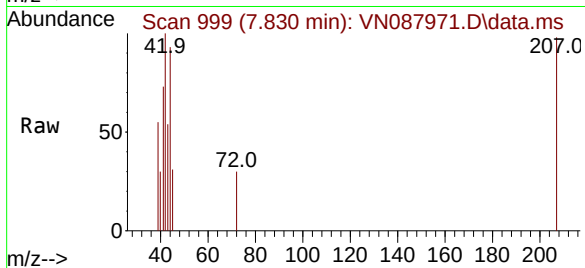
Tgt Ion: 42 Resp: 800

Ion Ratio Lower Upper

42 100

72 56.5 36.5 54.7#

71 9.5 33.8 50.8#



#31

Cyclohexane

Concen: 1.453 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.035 min

Lab File: VN087971.D

Acq: 26 Sep 2025 16:52

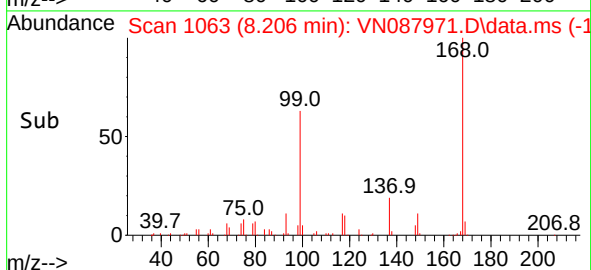
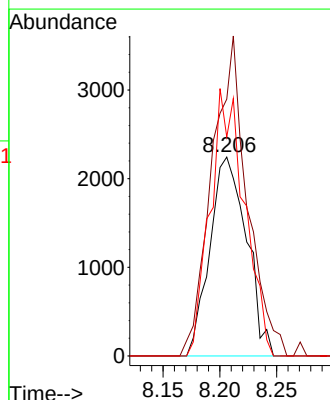
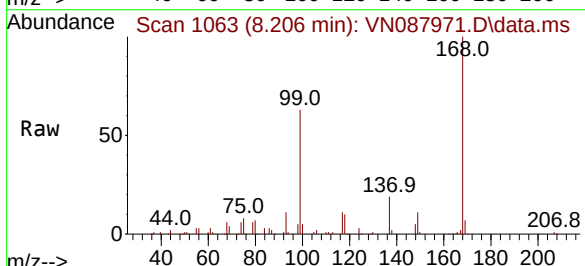
Tgt Ion: 56 Resp: 5046

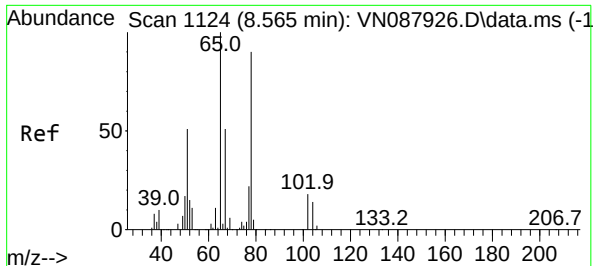
Ion Ratio Lower Upper

56 100

69 129.2 23.4 35.0#

84 110.1 70.8 106.2#

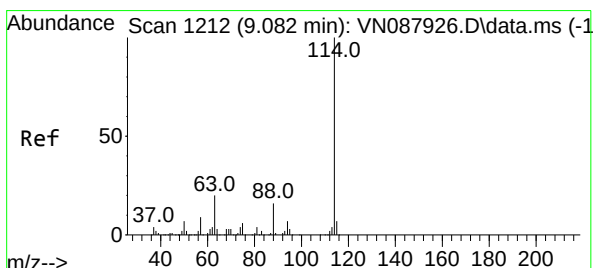
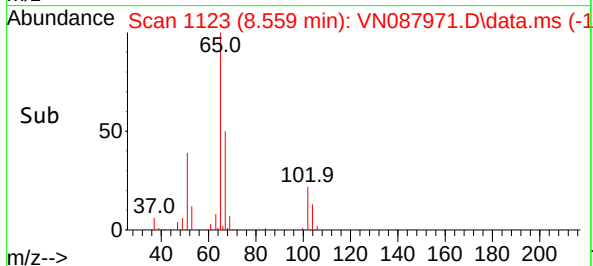
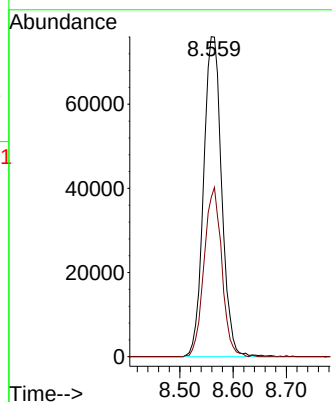
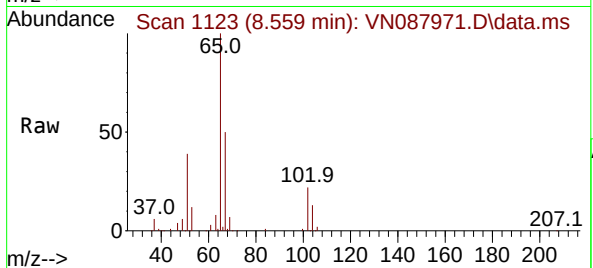




#33
 1,2-Dichloroethane-d4
 Concen: 57.989 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.006 min
 Lab File: VN087971.D
 Acq: 26 Sep 2025 16:52

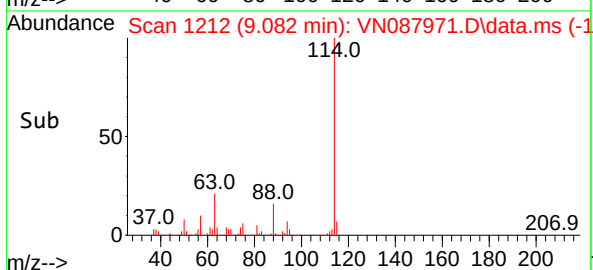
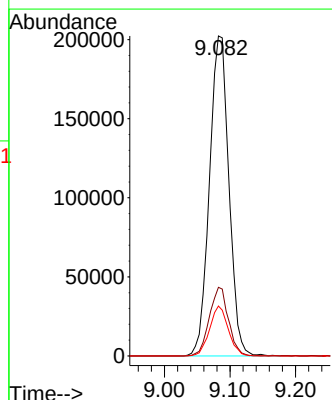
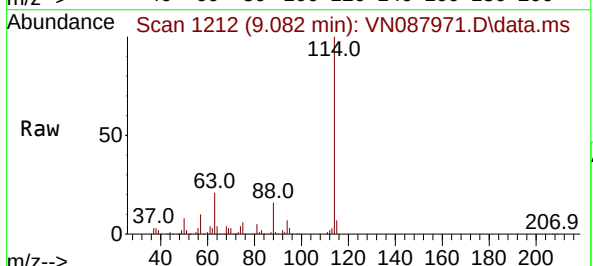
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

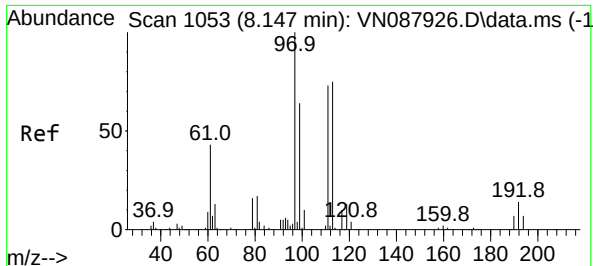
Tgt Ion: 65 Resp: 179594
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087971.D
 Acq: 26 Sep 2025 16:52

Tgt Ion: 114 Resp: 417020
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.0
 88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.395 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087971.D

Acq: 26 Sep 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

WC-4

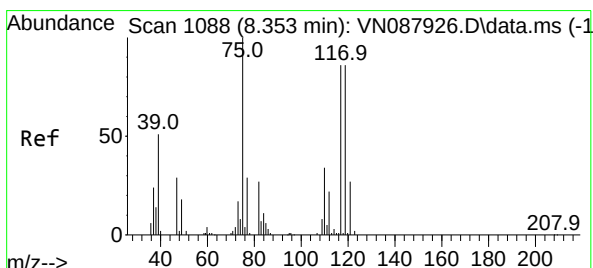
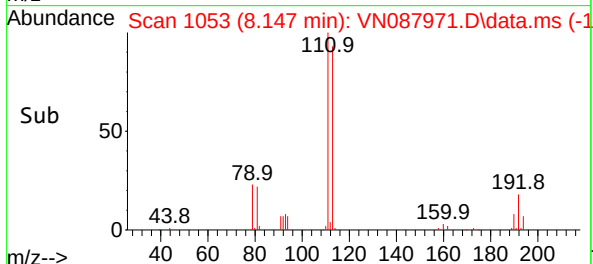
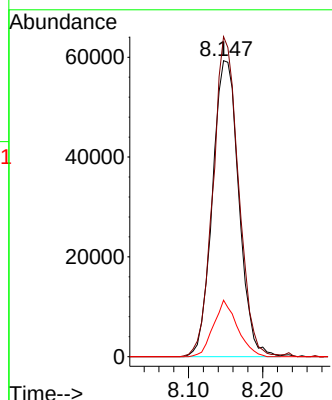
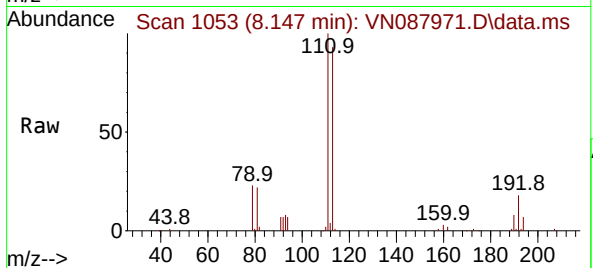
Tgt Ion:113 Resp: 146531

Ion Ratio Lower Upper

113 100

111 104.5 82.2 123.2

192 17.4 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.723 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087971.D

Acq: 26 Sep 2025 16:52

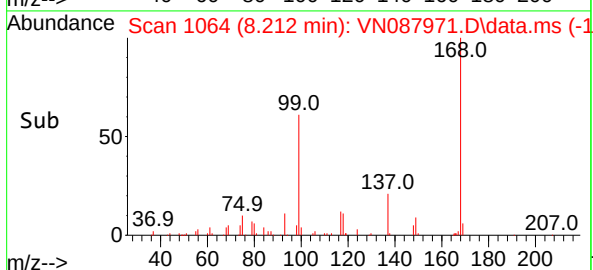
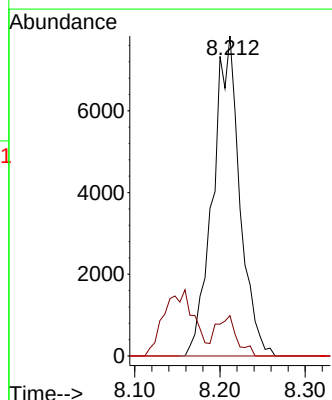
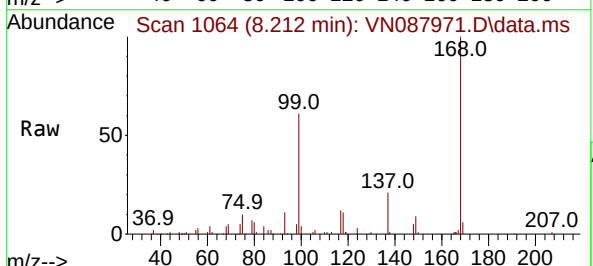
Tgt Ion: 75 Resp: 17195

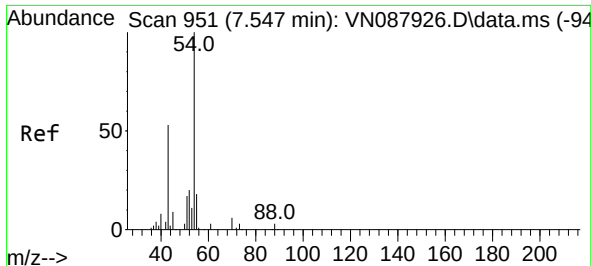
Ion Ratio Lower Upper

75 100

110 9.4 17.1 51.3#

77 0.0 24.8 37.2#

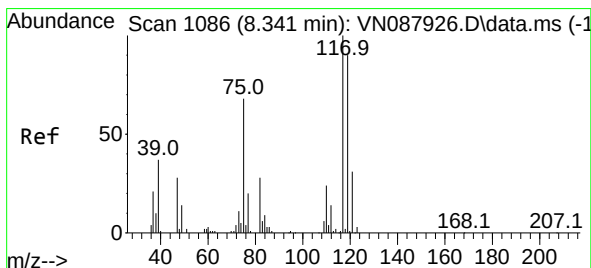
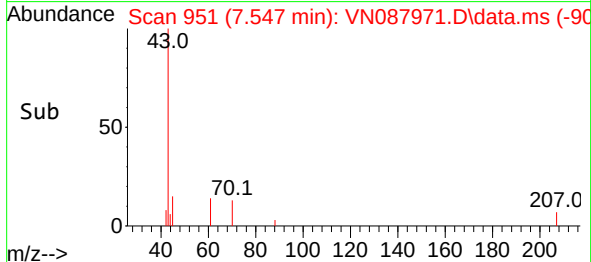
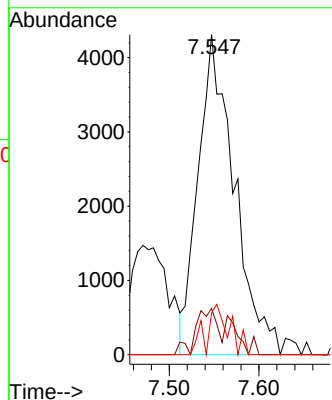
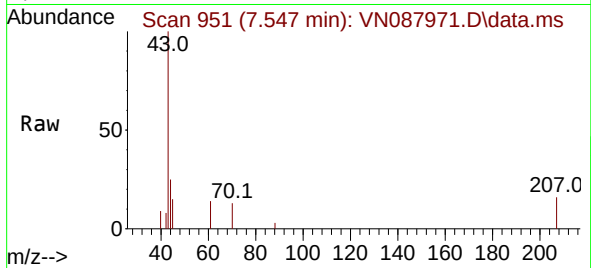




#37
Ethyl Acetate
Concen: 2.508 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

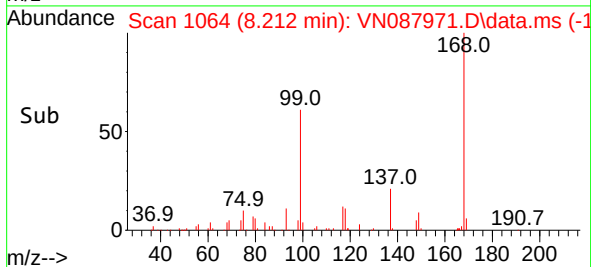
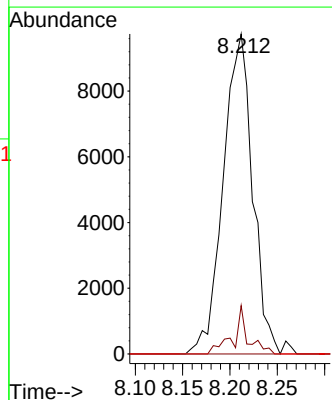
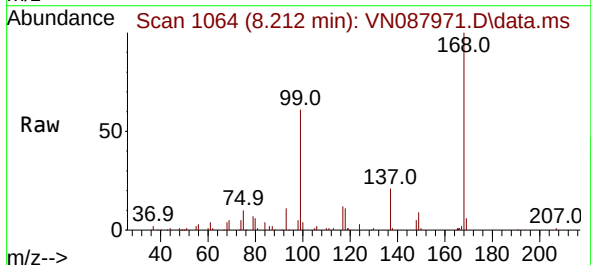
Instrument :
MSVOA_N
ClientSampleId :
WC-4

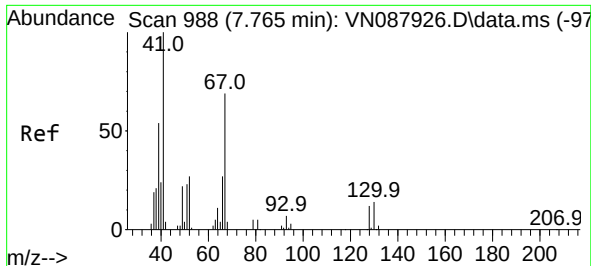
Tgt Ion: 43 Resp: 11992
Ion Ratio Lower Upper
43 100
61 8.9 10.7 16.1#
70 10.1 7.8 11.8



#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.130 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

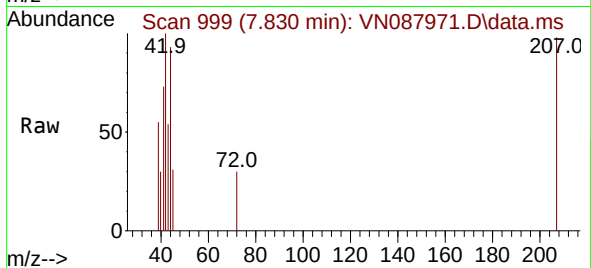
Tgt Ion: 117 Resp: 20972
Ion Ratio Lower Upper
117 100
119 15.1 72.1 108.1#
121 0.0 24.6 36.8#



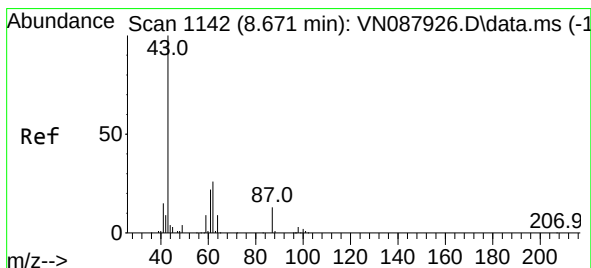
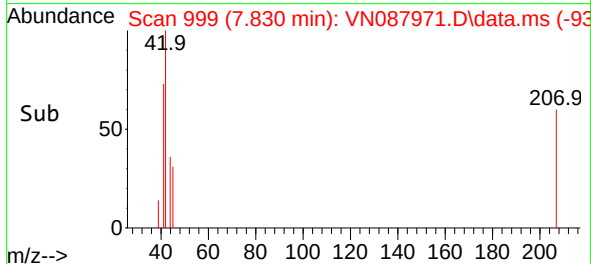
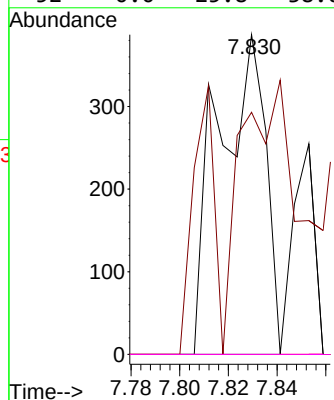


#41
Methacrylonitrile
Concen: 0.211 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.065 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Instrument :
MSVOA_N
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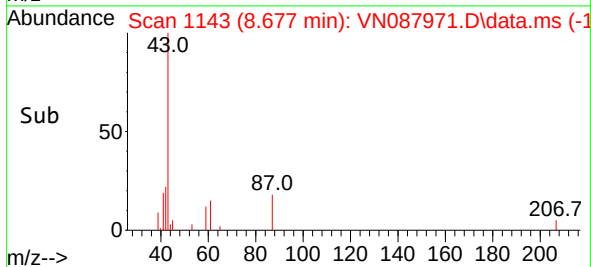
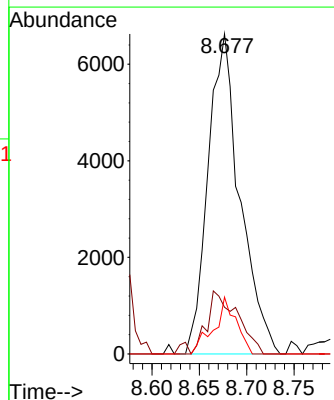
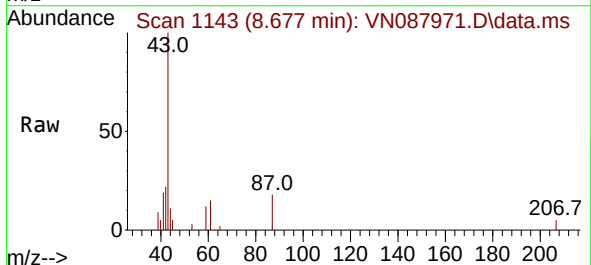


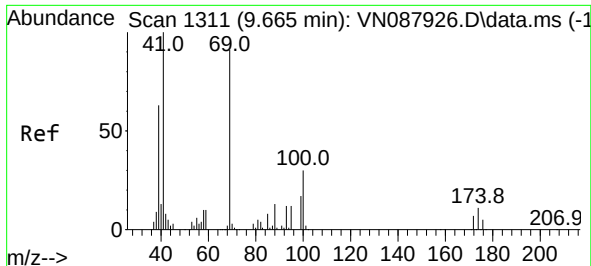
Tgt Ion: 41	Resp: 521
Ion Ratio	Lower Upper
41 100	
39 37.4	43.5 65.3#
67 0.0	57.6 86.4#
52 0.0	25.8 38.6#



#43
Isopropyl Acetate
Concen: 2.061 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 43	Resp: 15509
Ion Ratio	Lower Upper
43 100	
61 18.7	20.2 30.2#
87 12.4	10.9 16.3

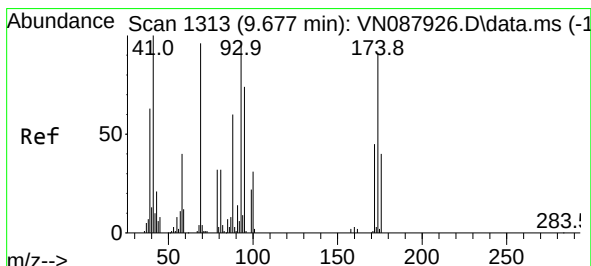
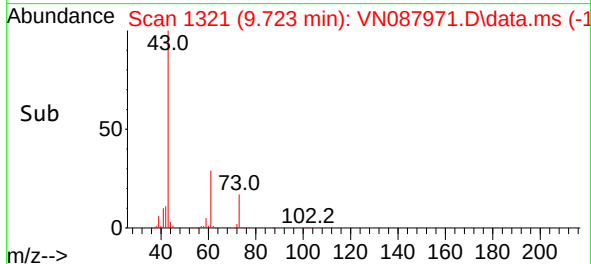
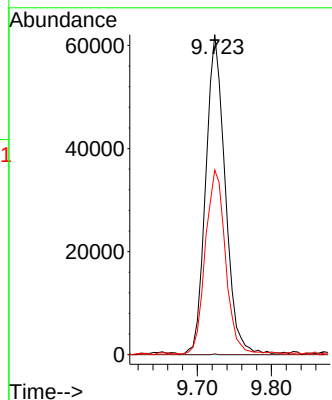
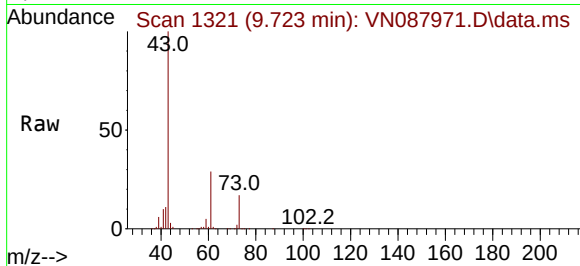




#48
Methyl methacrylate
Concen: 32.543 ug/l
RT: 9.723 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

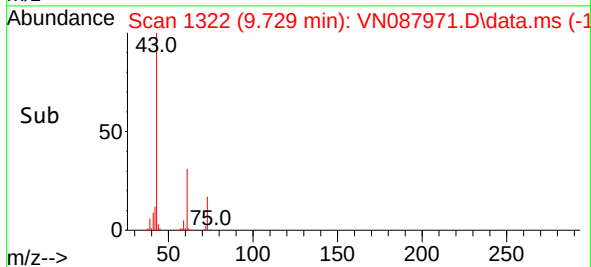
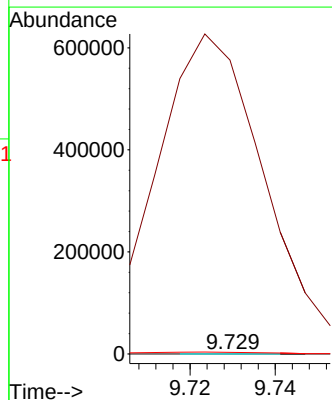
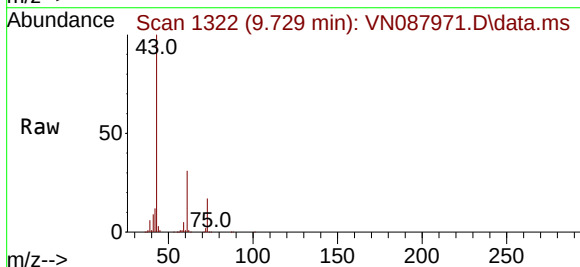
Instrument :
MSVOA_N
ClientSampleId :
WC-4

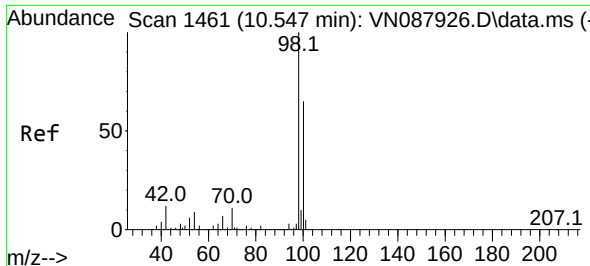
Tgt Ion: 41 Resp: 113410
Ion Ratio Lower Upper
41 100
69 0.1 70.9 106.3#
39 59.3 52.9 79.3



#49
1,4-Dioxane
Concen: 1.204 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.053 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 1866680.6 22.6 33.8#
58 12485.5 57.4 86.2#

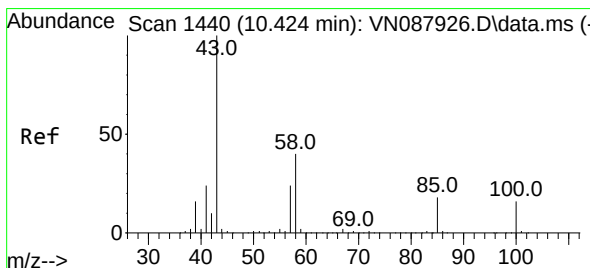
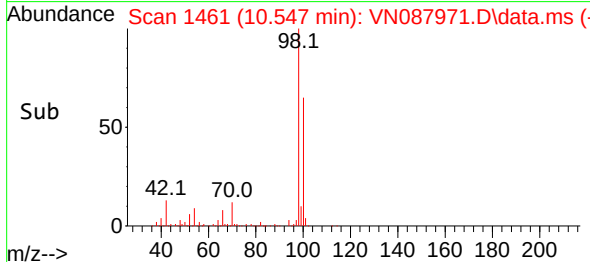
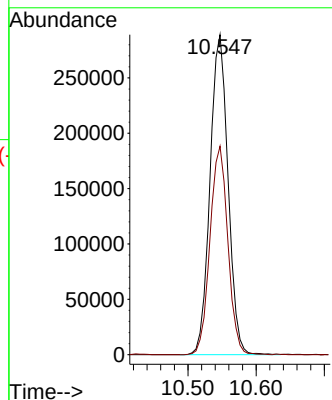
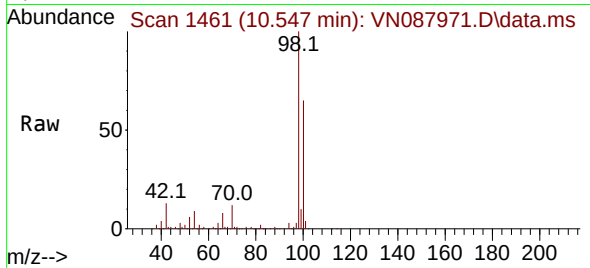




#50
Toluene-d8
Concen: 49.883 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

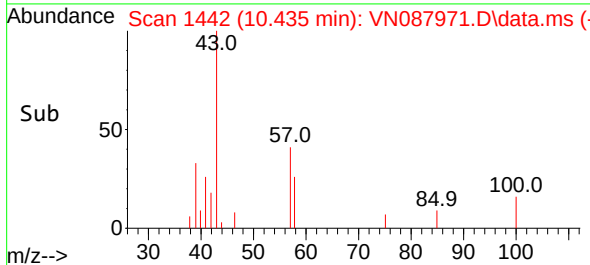
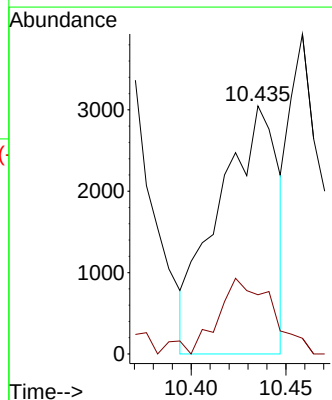
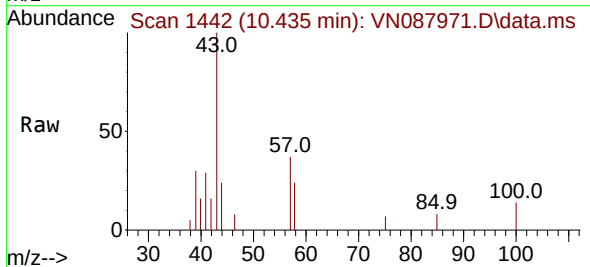
Instrument :
MSVOA_N
ClientSampleId :
WC-4

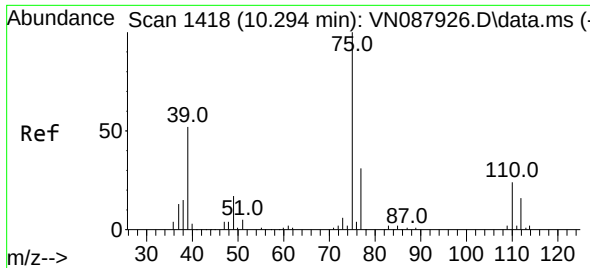
Tgt Ion: 98 Resp: 531135
Ion Ratio Lower Upper
98 100
100 64.6 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.416 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 43 Resp: 6650
Ion Ratio Lower Upper
43 100
58 28.1 31.0 46.6#

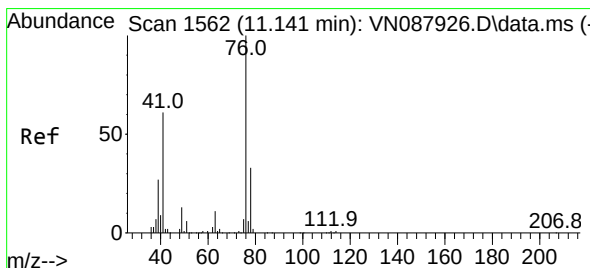
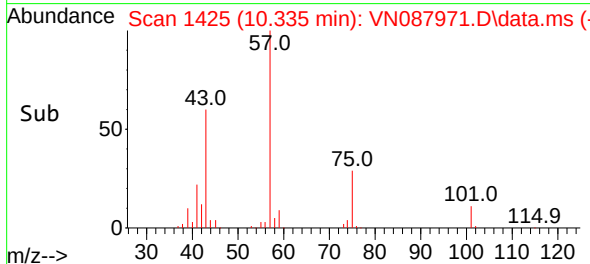
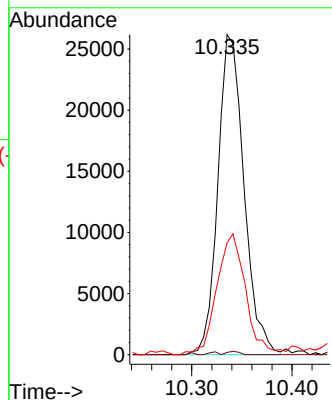
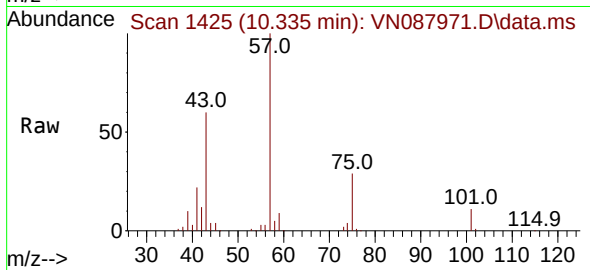




#54
 cis-1,3-Dichloropropene
 Concen: 9.508 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN087971.D
 Acq: 26 Sep 2025 16:52

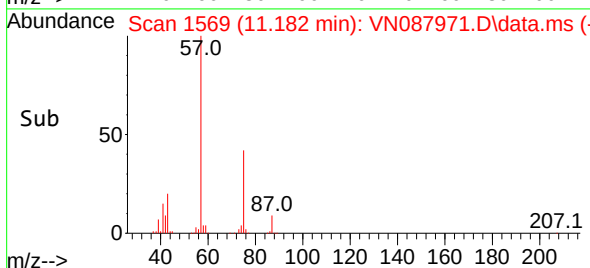
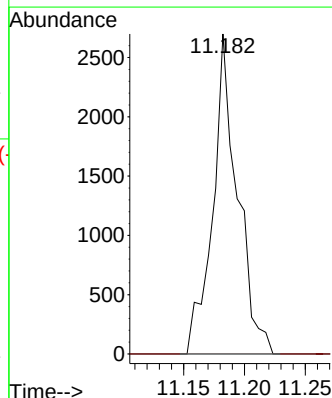
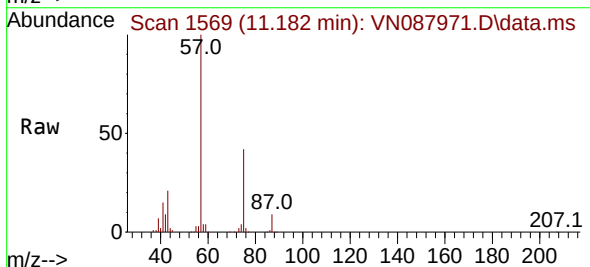
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

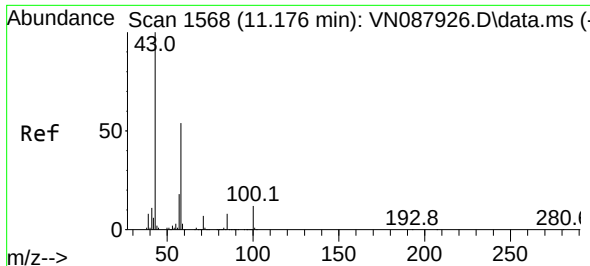
Tgt Ion: 75 Resp: 47281
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.7 37.1#
 39 34.9 41.4 62.0#



#57
 1,3-Dichloropropane
 Concen: 0.751 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN087971.D
 Acq: 26 Sep 2025 16:52

Tgt Ion: 76 Resp: 3801
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

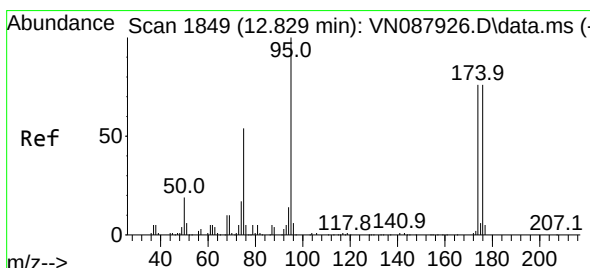
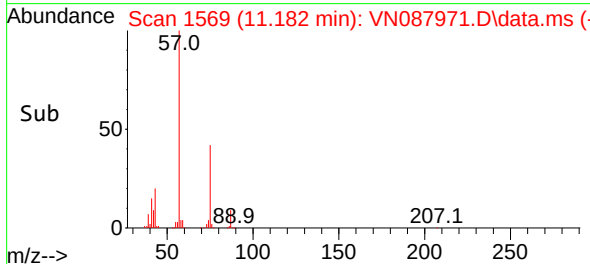
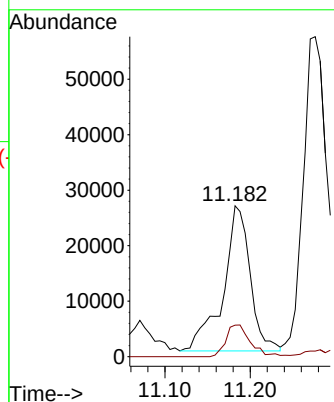
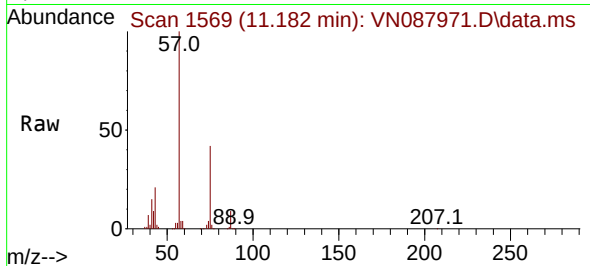




#59
2-Hexanone
Concen: 18.587 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

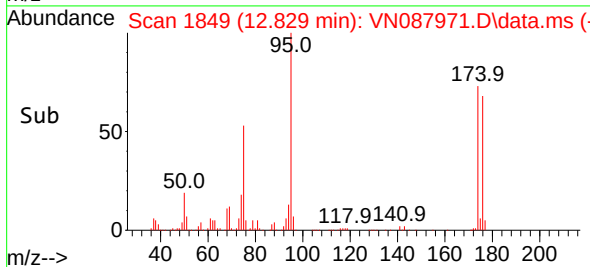
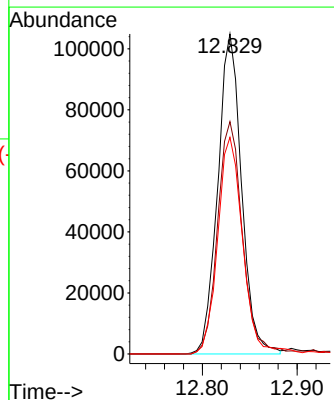
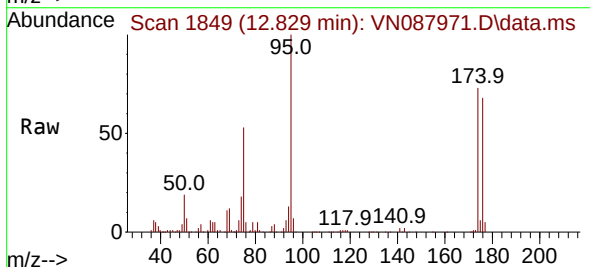
Instrument :
MSVOA_N
ClientSampleId :
WC-4

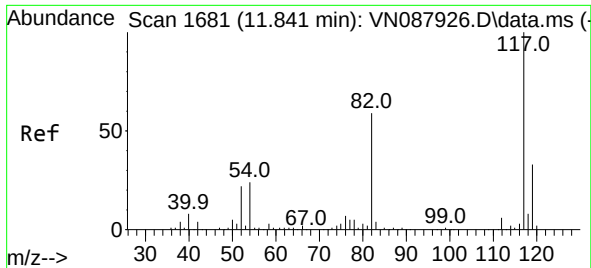
Tgt Ion: 43 Resp: 57714
Ion Ratio Lower Upper
43 100
58 19.9 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 48.183 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 95 Resp: 183380
Ion Ratio Lower Upper
95 100
174 76.0 0.0 159.2
176 71.0 0.0 152.6

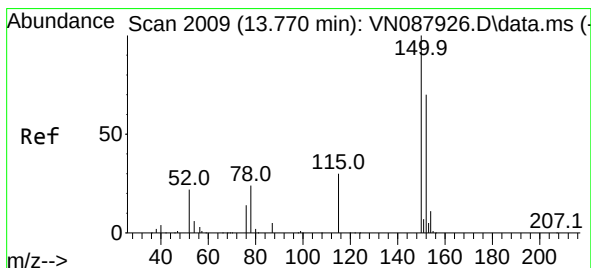
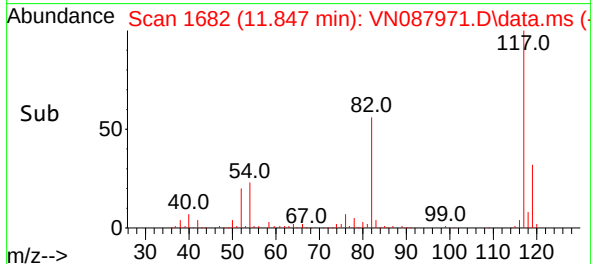
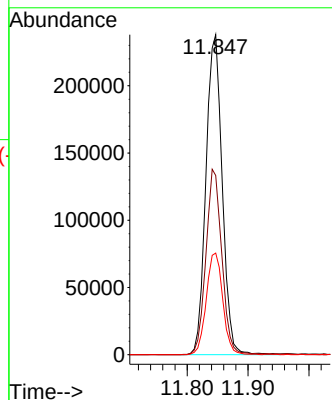
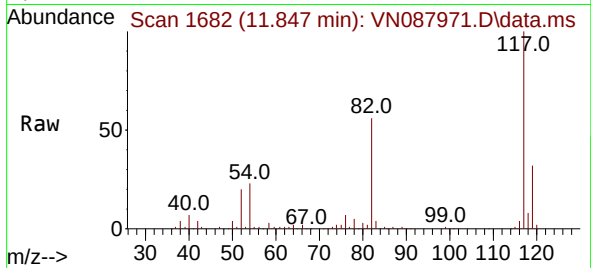




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

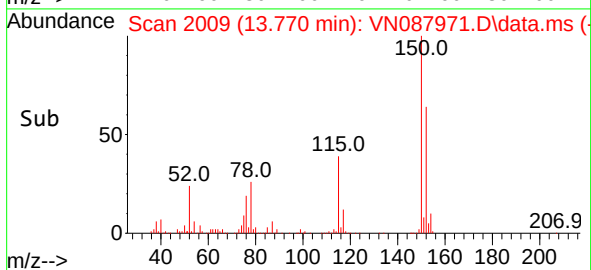
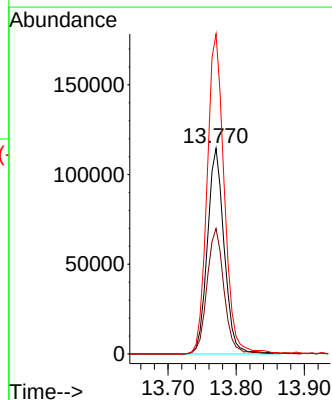
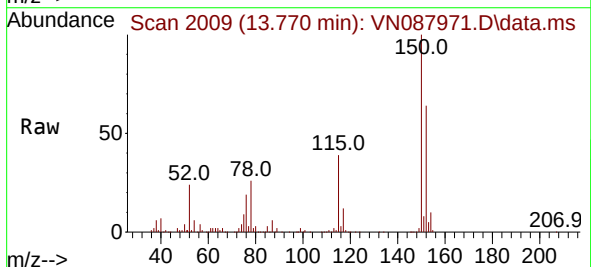
Instrument :
MSVOA_N
ClientSampleId :
WC-4

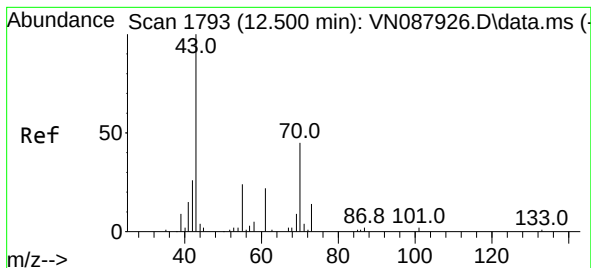
Tgt Ion:117 Resp: 441155
Ion Ratio Lower Upper
117 100
82 56.0 47.0 70.4
119 31.7 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion:152 Resp: 196761
Ion Ratio Lower Upper
152 100
115 62.0 29.9 89.7
150 158.9 0.0 335.0

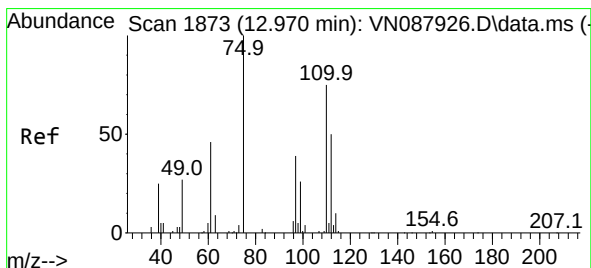
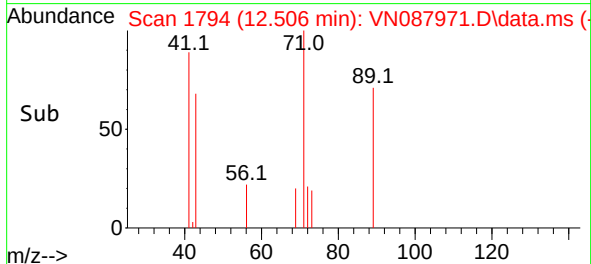
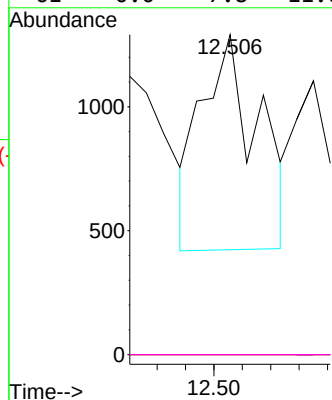
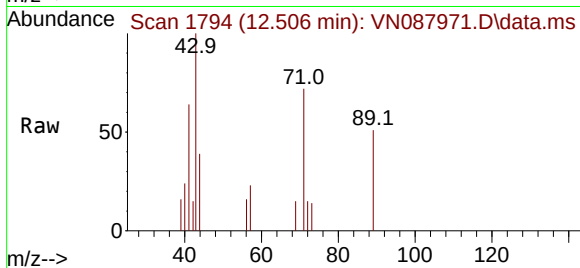




#74
N-amy1 acetate
Concen: 0.299 ug/l
RT: 12.506 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

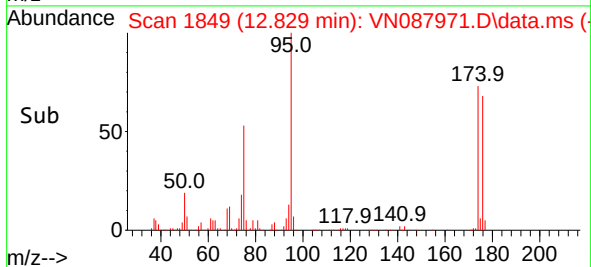
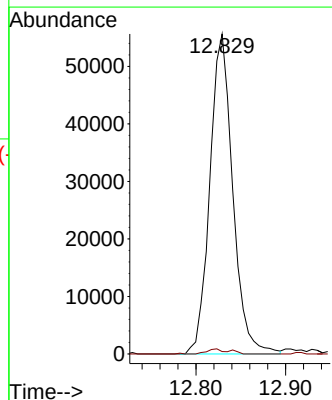
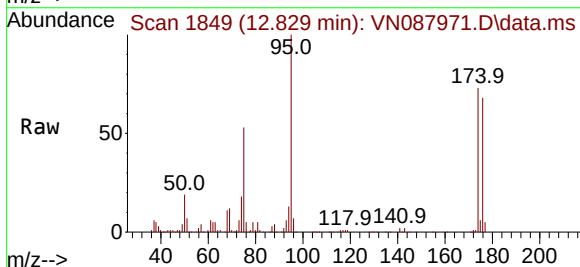
Instrument :
MSVOA_N
ClientSampleId :
WC-4

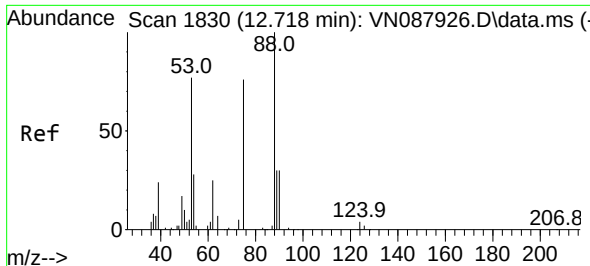
Tgt Ion:	43	Resp:	1202
Ion	Ratio	Lower	Upper
43	100		
70	0.0	19.8	29.8#
55	0.0	9.6	14.4#
61	0.0	7.8	11.6#



#76
1,2,3-Trichloropropane
Concen: 25.433 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion:	75	Resp:	98646
Ion	Ratio	Lower	Upper
75	100		
77	1.1	89.5	268.5#

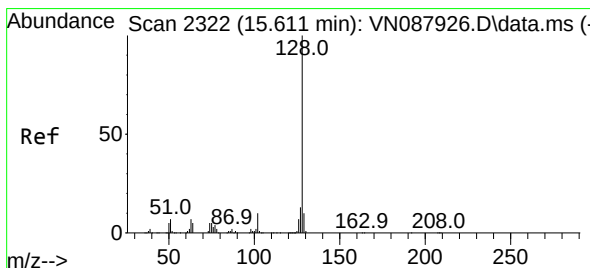
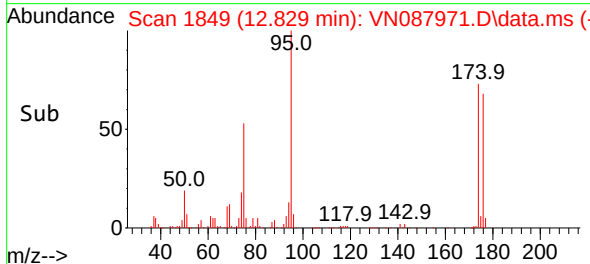
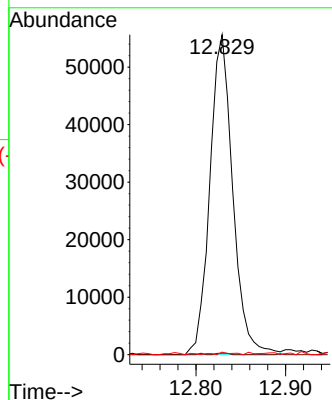
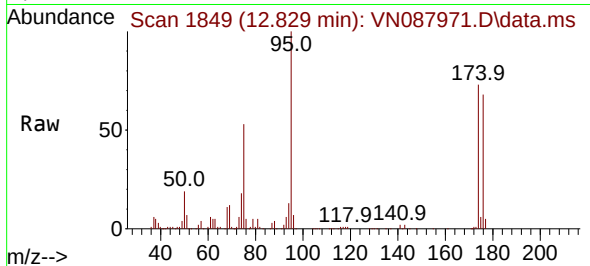




#81
trans-1,4-Dichloro-2-butene
Concen: 70.625 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
WC-4

Tgt Ion: 75 Resp: 98646
Ion Ratio Lower Upper
75 100
53 0.3 82.0 123.0#
89 0.5 36.1 54.1#



#95
Naphthalene
Concen: 0.329 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN087971.D
Acq: 26 Sep 2025 16:52

Tgt Ion: 128 Resp: 3805
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 3.5 8.6 13.0#

