

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087377.D
 Acq On : 21 Jul 2025 14:16
 Operator : JC\MD
 Sample : Q2645-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW5B-CARBON-20250716

Quant Time: Jul 22 03:07:55 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)

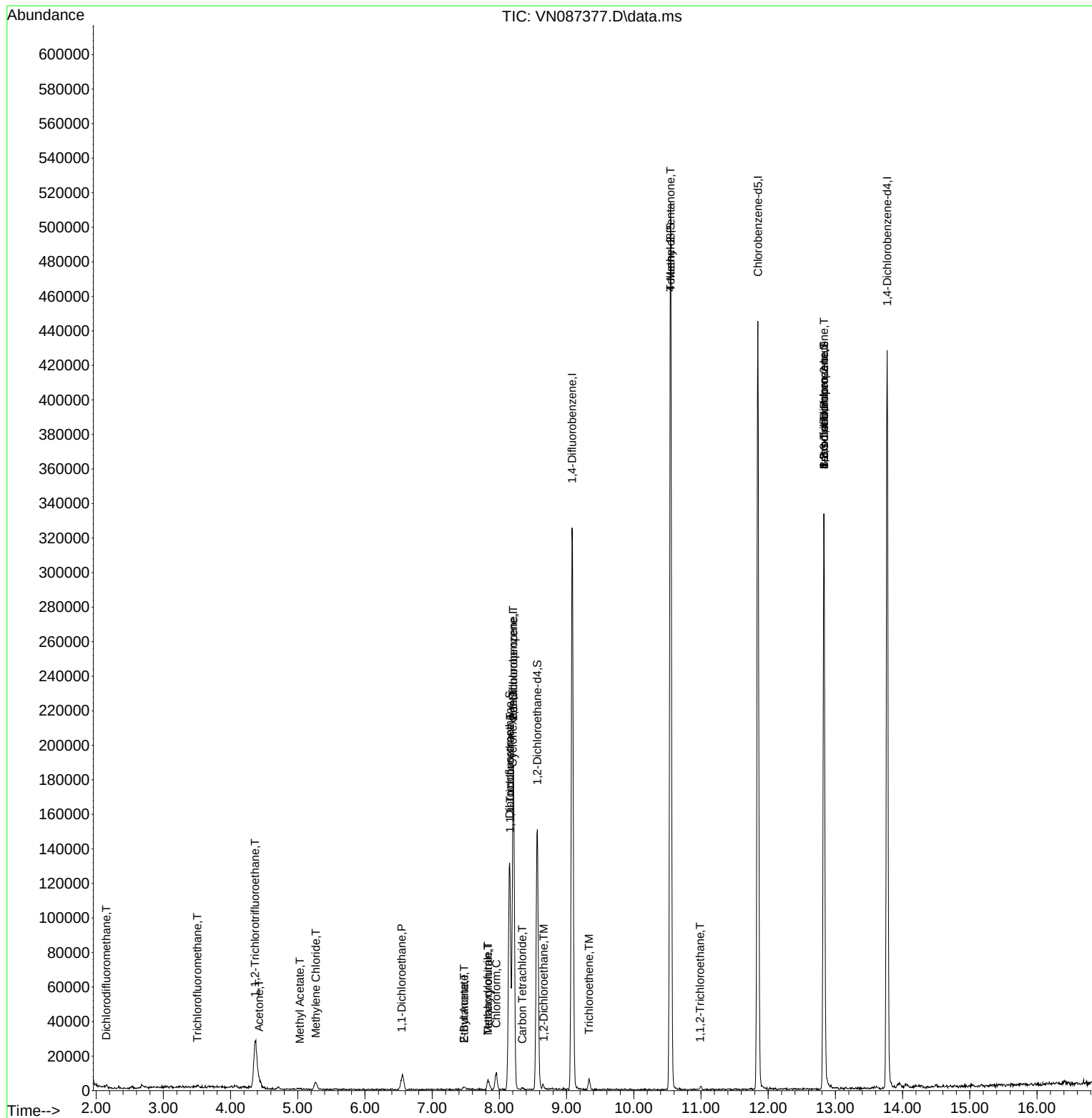
Internal Standards						
1) Pentafluorobenzene	8.206	168	134547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	274518	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	249654	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	117578	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	128607	56.333	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 112.660%		
35) Dibromofluoromethane	8.153	113	98527	52.031	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.060%		
50) Toluene-d8	10.547	98	344439	50.992	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 101.980%		
62) 4-Bromofluorobenzene	12.829	95	115311	46.206	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 92.420%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	652	0.456	ug/l #	39
7) Trichlorofluoromethane	3.506	101	715	0.271	ug/l #	19
9) 1,1,2-Trichlorotrifluo...	4.365	101	20216	14.913	ug/l	96
16) Acetone	4.424	43	9553	8.925	ug/l #	83
18) Methyl Acetate	5.030	43	1495	0.556	ug/l #	65
20) Methylene Chloride	5.271	84	3190	1.137	ug/l #	70
24) 1,1-Dichloroethane	6.547	63	12930	3.843	ug/l #	84
25) 2-Butanone	7.477	43	3253	1.967	ug/l	97
29) Tetrahydrofuran	7.830	42	4619	4.299	ug/l #	86
30) Chloroform	7.953	83	10238	3.040	ug/l	89
31) Cyclohexane	8.200	56	3472	1.237	ug/l #	16
32) 1,1,1-Trichloroethane	8.159	97	887	0.304	ug/l #	22
36) 1,1-Dichloropropene	8.206	75	11471	4.585	ug/l #	50
37) Ethyl Acetate	7.477	43	3253	0.900	ug/l #	72
38) Carbon Tetrachloride	8.341	117	892	0.324	ug/l #	54
41) Methacrylonitrile	7.830	41	2871	1.520	ug/l #	51
42) 1,2-Dichloroethane	8.659	62	2006	0.654	ug/l #	75
44) Trichloroethene	9.335	130	2139	1.120	ug/l	99
51) 4-Methyl-2-Pentanone	10.547	43	1753	0.494	ug/l #	1
55) 1,1,2-Trichloroethane	10.988	97	788	0.396	ug/l #	80
71) Bromoform	12.829	173	723	0.470	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	63570	24.111	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	63570	65.971	ug/l #	8

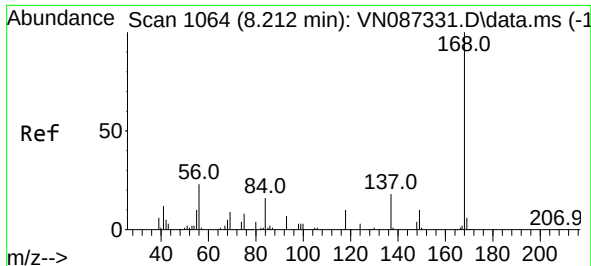
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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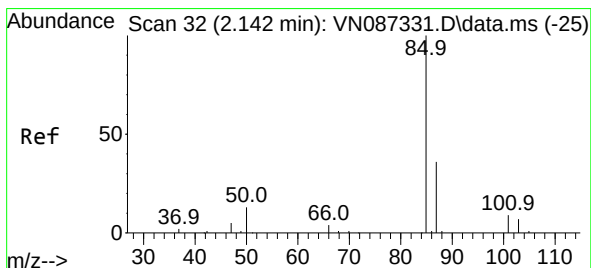
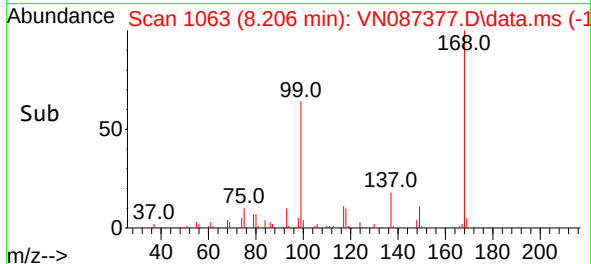
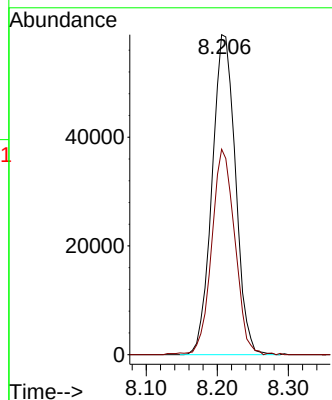
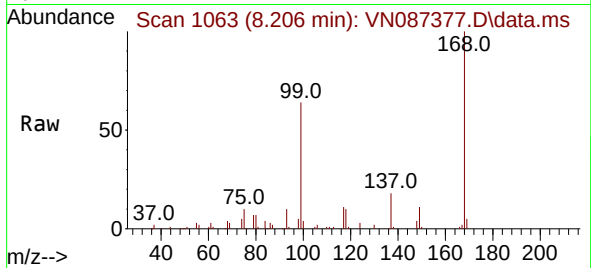




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

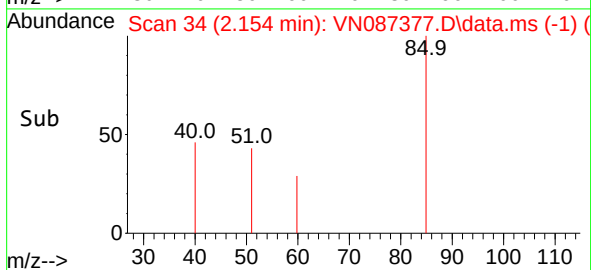
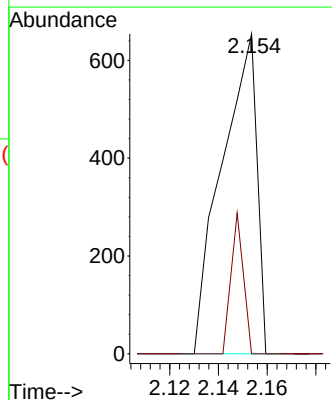
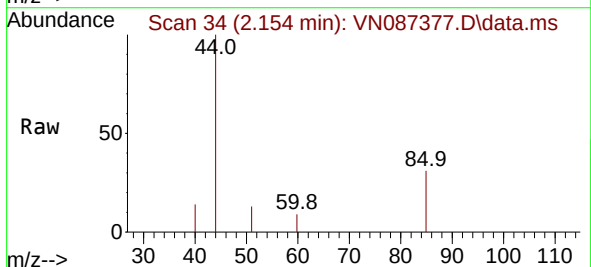
Instrument :
MSVOA_N
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RW5B-CARBON-20250716

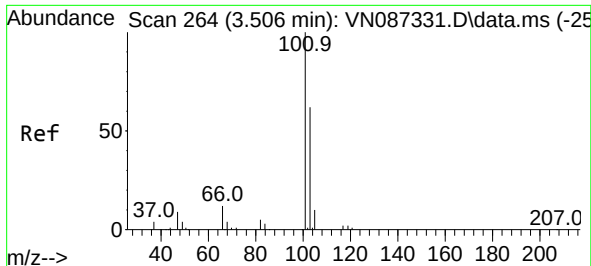
Tgt Ion:168 Resp: 134547
Ion Ratio Lower Upper
168 100
99 63.8 47.9 71.9



#2
Dichlorodifluoromethane
Concen: 0.456 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.012 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

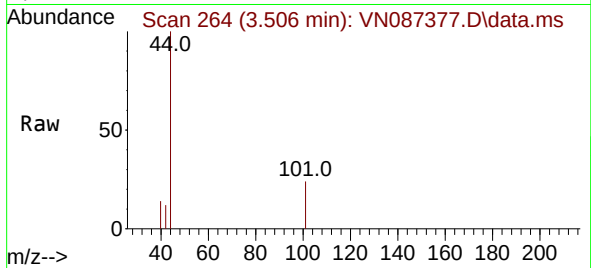
Tgt Ion: 85 Resp: 652
Ion Ratio Lower Upper
85 100
87 0.0 17.8 53.3#



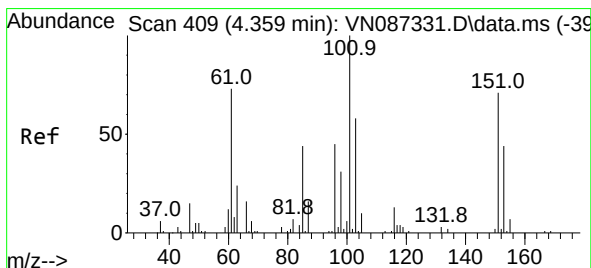
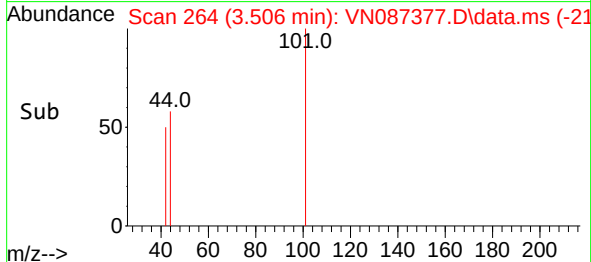
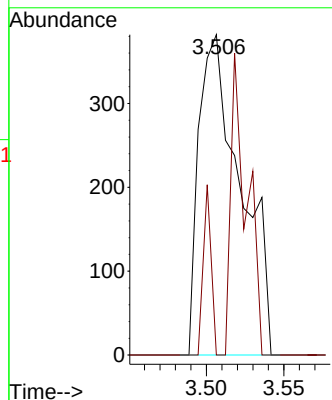


#7
 Trichlorofluoromethane
 Concen: 0.271 ug/l
 RT: 3.506 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: VN087377.D
 Acq: 21 Jul 2025 14:16

Instrument :
 MSVOA_N
 ClientSampleId :
 RW5B-CARBON-20250716

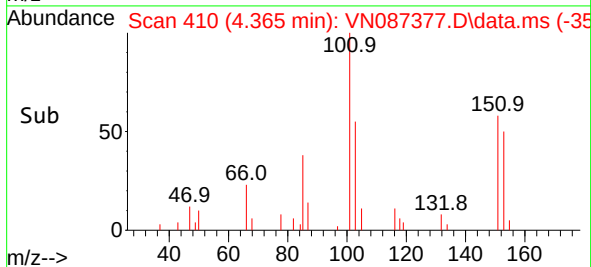
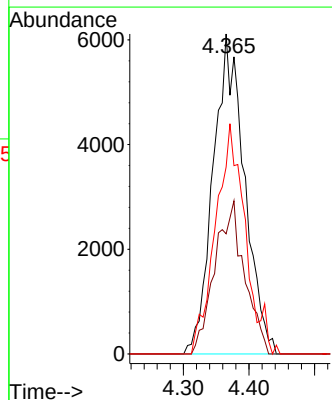
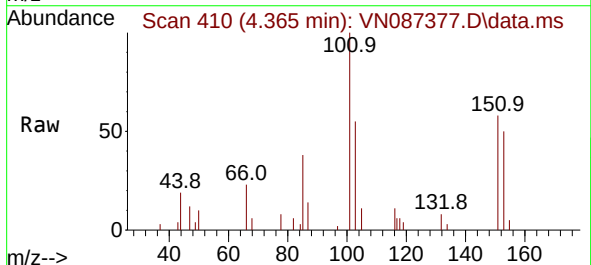


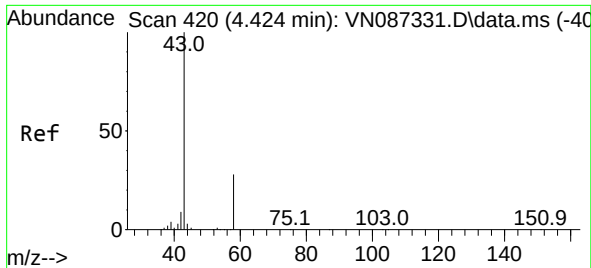
Tgt Ion:101 Resp: 715
 Ion Ratio Lower Upper
 101 100
 103 0.0 49.8 74.6#



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.913 ug/l
 RT: 4.365 min Scan# 410
 Delta R.T. 0.006 min
 Lab File: VN087377.D
 Acq: 21 Jul 2025 14:16

Tgt Ion:101 Resp: 20216
 Ion Ratio Lower Upper
 101 100
 85 45.6 37.3 55.9
 151 68.4 58.9 88.3

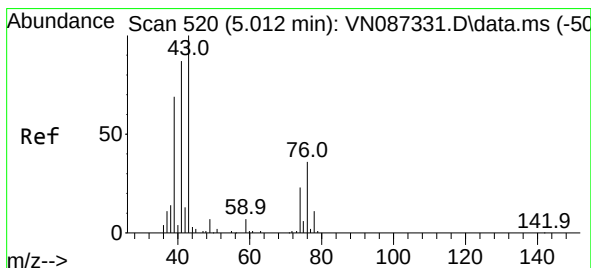
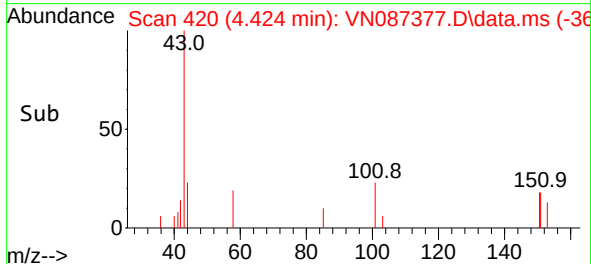
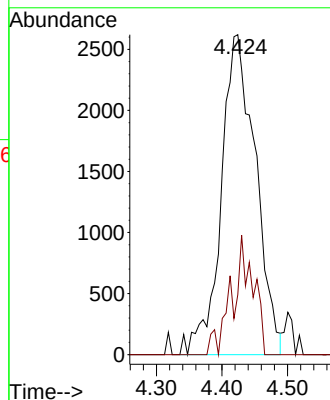
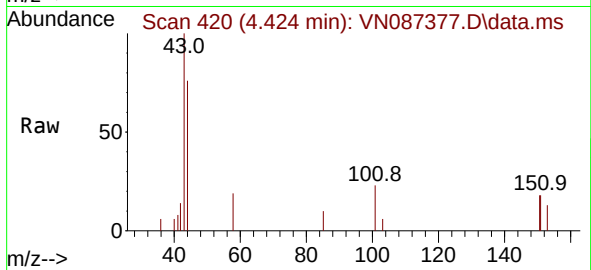




#16
Acetone
Concen: 8.925 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

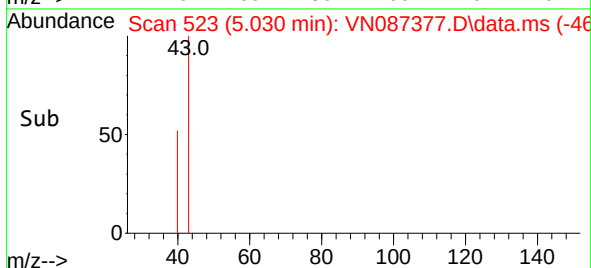
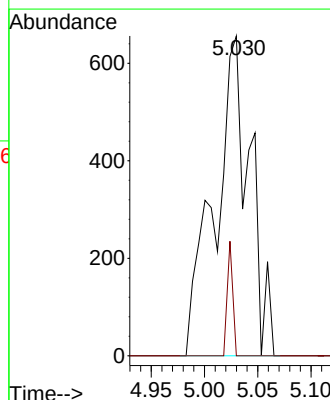
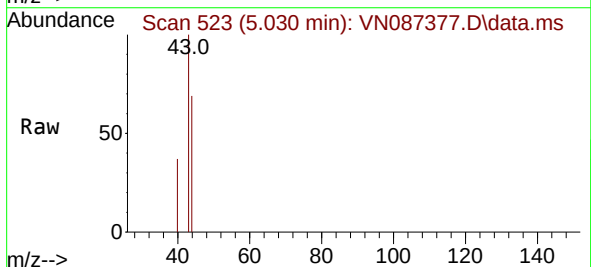
Instrument :
MSVOA_N
ClientSampleId :
RW5B-CARBON-20250716

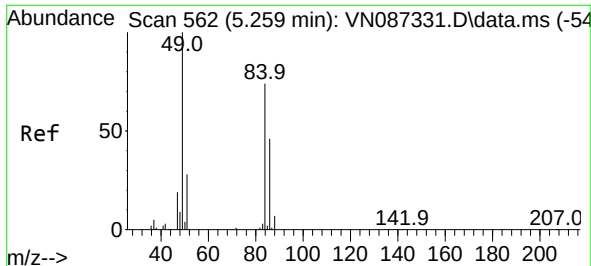
Tgt Ion: 43 Resp: 9553
Ion Ratio Lower Upper
43 100
58 18.7 22.3 33.5#



#18
Methyl Acetate
Concen: 0.556 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

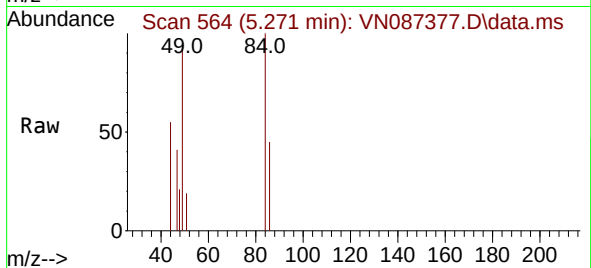
Tgt Ion: 43 Resp: 1495
Ion Ratio Lower Upper
43 100
74 5.6 17.8 26.6#



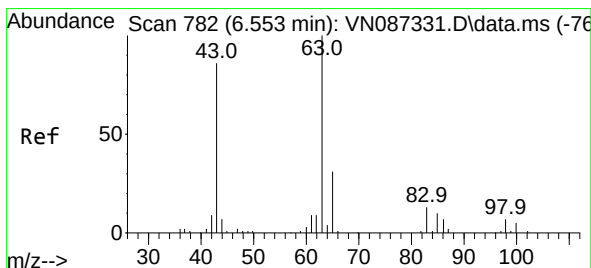
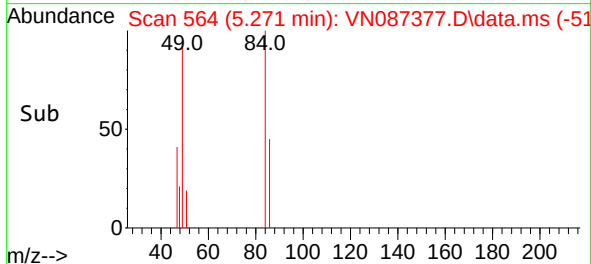
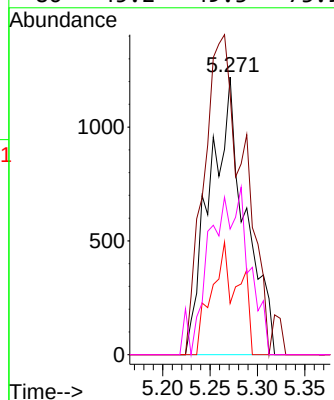


#20
Methylene Chloride
Concen: 1.137 ug/l
RT: 5.271 min Scan# 501
Delta R.T. 0.012 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Instrument :
MSVOA_N
ClientSampleId :
RW5B-CARBON-20250716

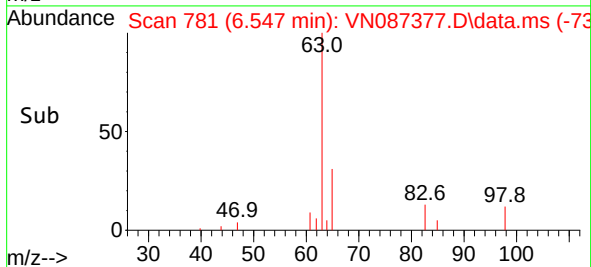
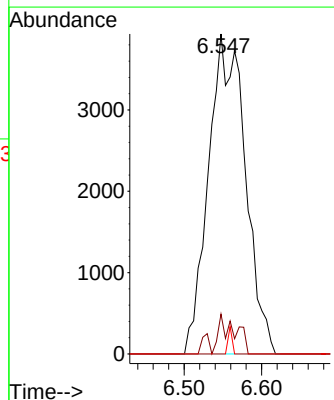
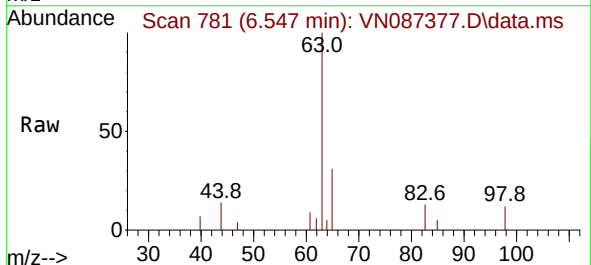


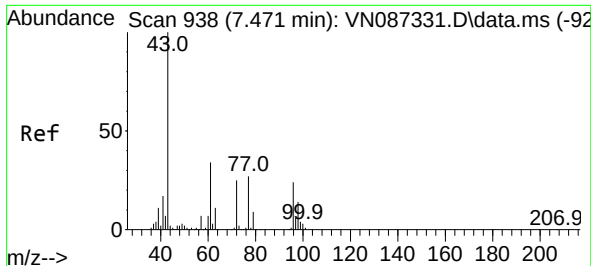
Tgt Ion:	84	Resp:	3190
Ion	Ratio	Lower	Upper
84	100		
49	94.1	107.5	161.3#
51	18.5	30.2	45.2#
86	45.2	49.3	73.9#



#24
1,1-Dichloroethane
Concen: 3.843 ug/l
RT: 6.547 min Scan# 781
Delta R.T. -0.006 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Tgt Ion:	63	Resp:	12930
Ion	Ratio	Lower	Upper
63	100		
98	12.4	3.3	9.9#
100	0.0	2.5	7.4#

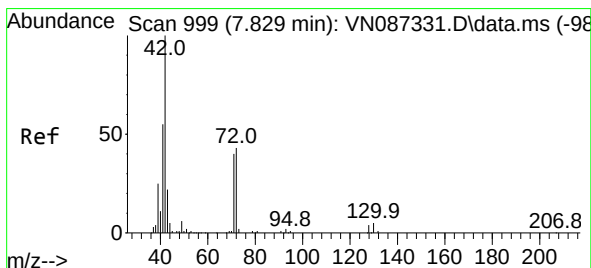
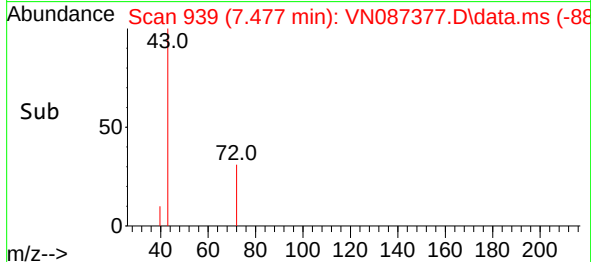
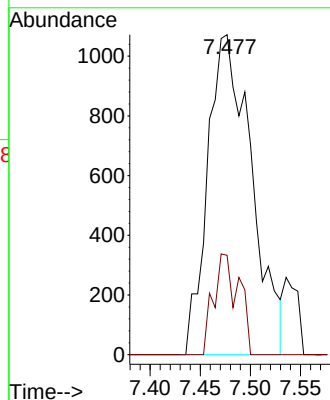
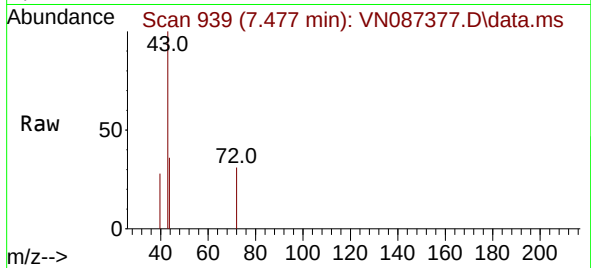




#25
2-Butanone
Concen: 1.967 ug/l
RT: 7.477 min Scan# 911
Delta R.T. 0.006 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

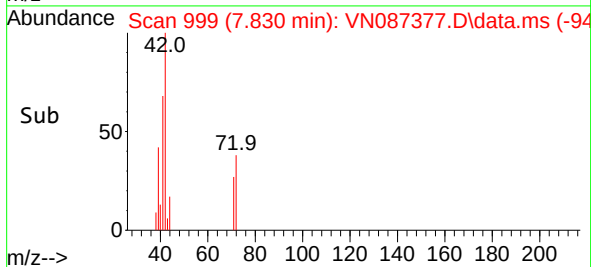
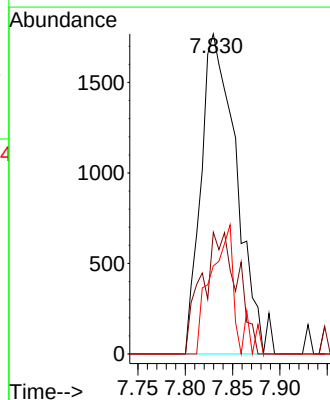
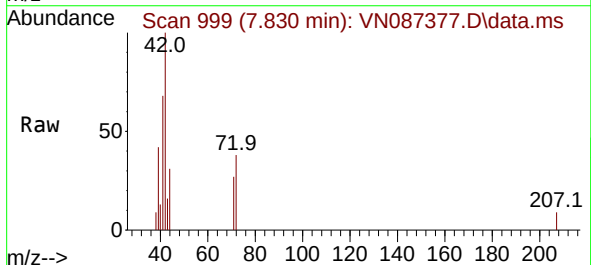
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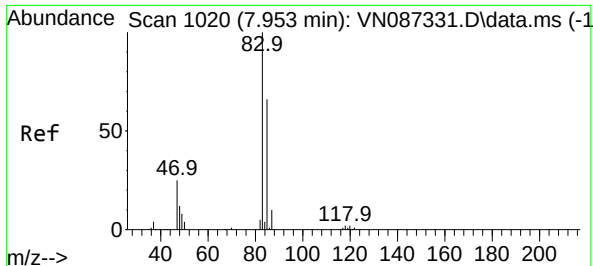
Tgt Ion: 43 Resp: 3253
Ion Ratio Lower Upper
43 100
72 22.9 19.6 29.4



#29
Tetrahydrofuran
Concen: 4.299 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.000 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Tgt Ion: 42 Resp: 4619
Ion Ratio Lower Upper
42 100
72 38.2 33.4 50.0
71 24.8 31.2 46.8#

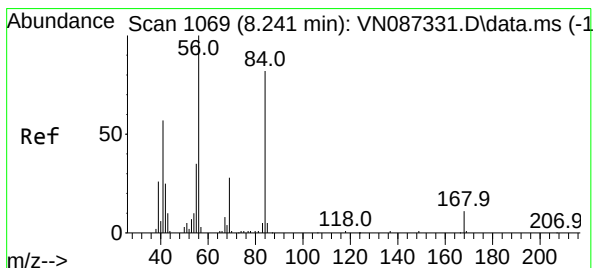
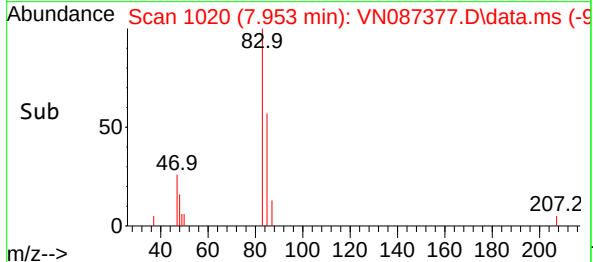
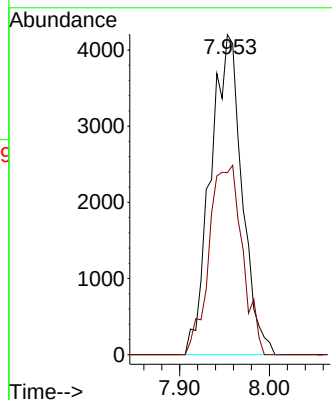
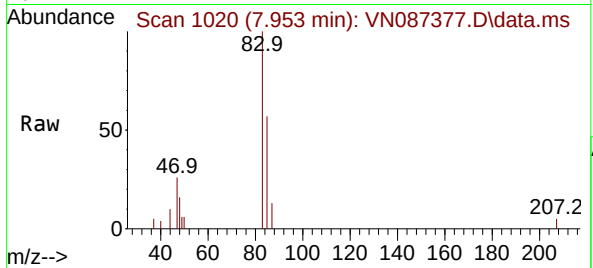




#30
Chloroform
Concen: 3.040 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

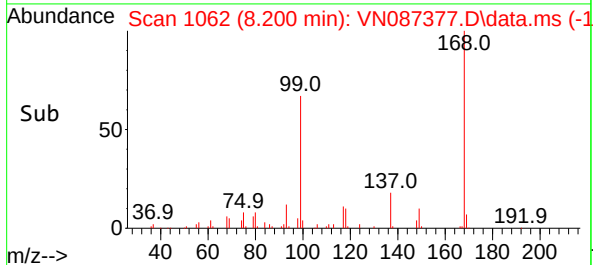
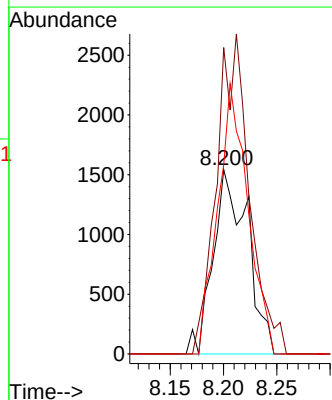
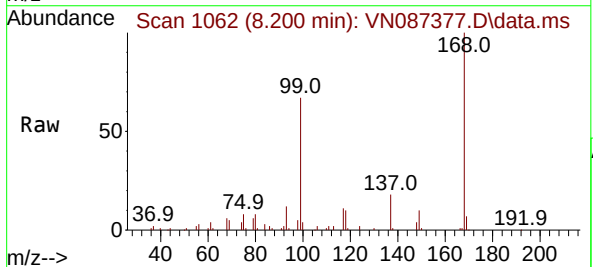
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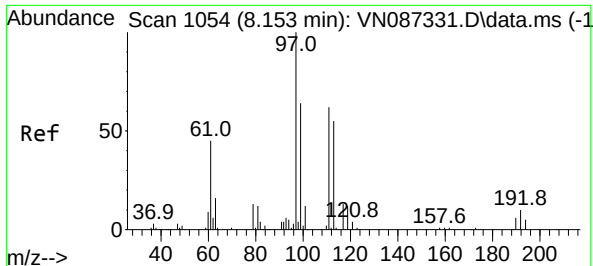
Tgt Ion: 83 Resp: 10238
Ion Ratio Lower Upper
83 100
85 56.9 52.7 79.1



#31
Cyclohexane
Concen: 1.237 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.041 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Tgt Ion: 56 Resp: 3472
Ion Ratio Lower Upper
56 100
69 166.2 22.7 34.1#
84 102.5 65.8 98.6#





#32

1,1,1-Trichloroethane

Concen: 0.304 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN087377.D

Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

RW5B-CARBON-20250716

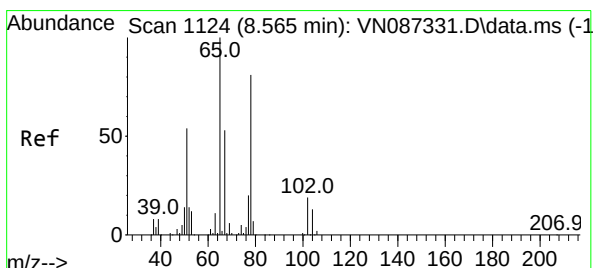
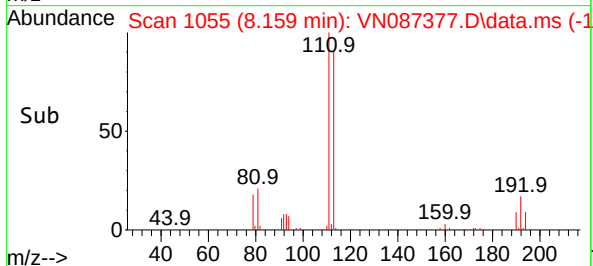
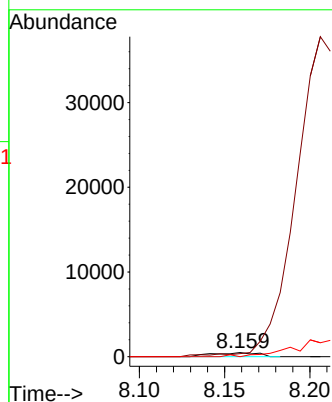
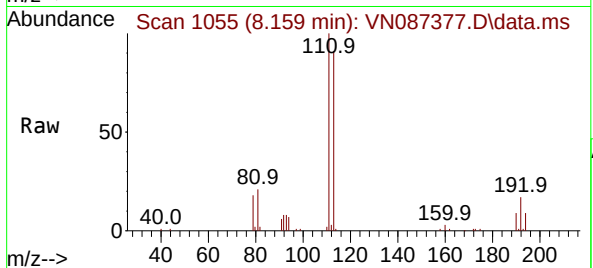
Tgt Ion: 97 Resp: 887

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.8#

61 0.0 38.7 58.1#



#33

1,2-Dichloroethane-d4

Concen: 56.333 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087377.D

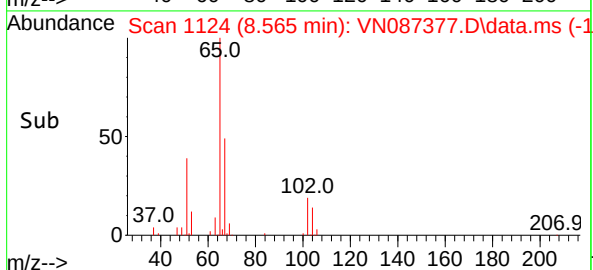
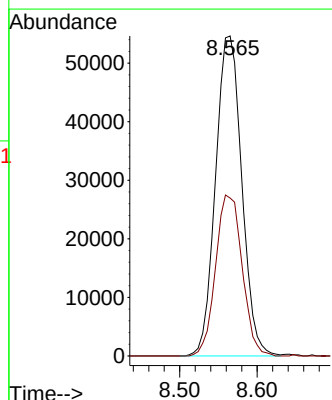
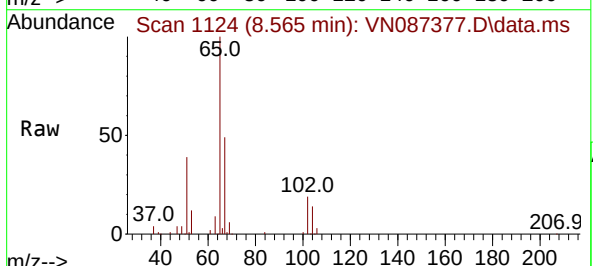
Acq: 21 Jul 2025 14:16

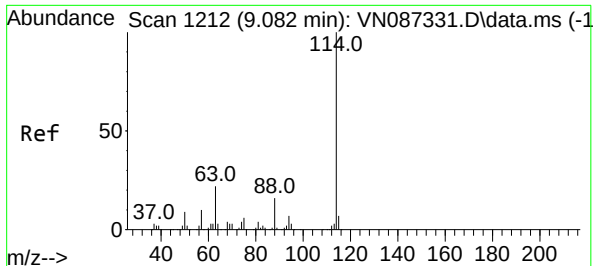
Tgt Ion: 65 Resp: 128607

Ion Ratio Lower Upper

65 100

67 50.9 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN087377.D

Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

RW5B-CARBON-20250716

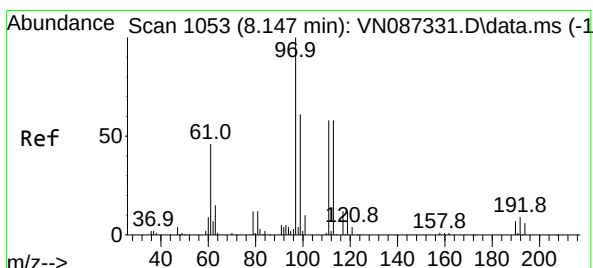
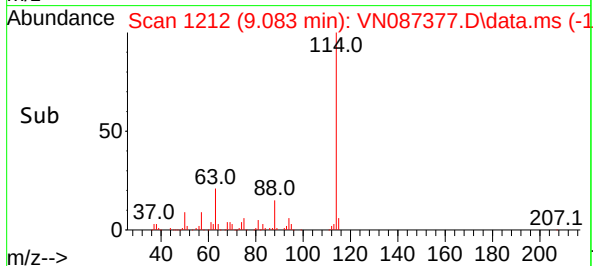
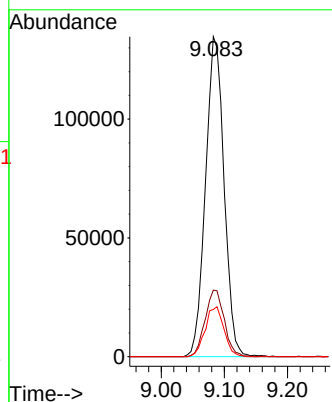
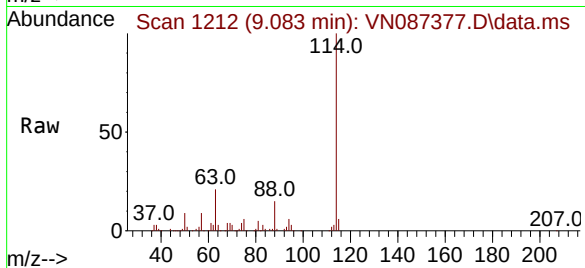
Tgt Ion:114 Resp: 274518

Ion Ratio Lower Upper

114 100

63 20.8 0.0 44.6

88 14.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 52.031 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087377.D

Acq: 21 Jul 2025 14:16

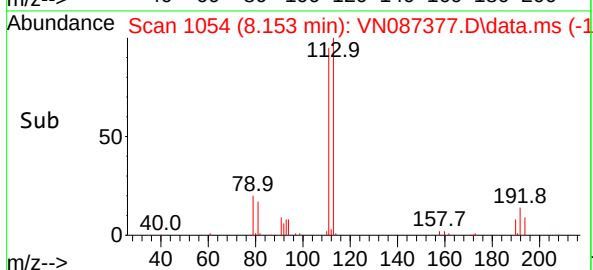
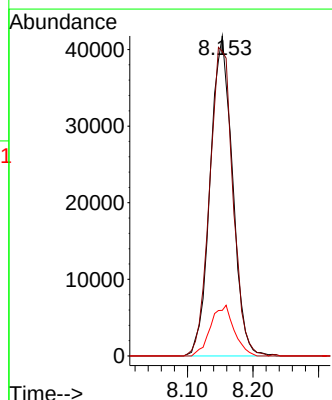
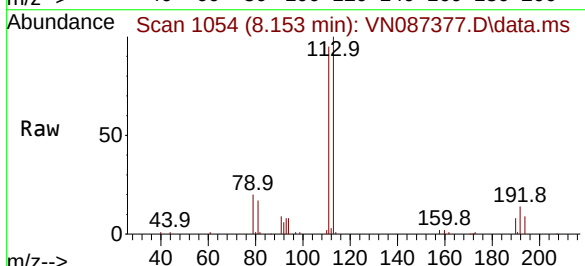
Tgt Ion:113 Resp: 98527

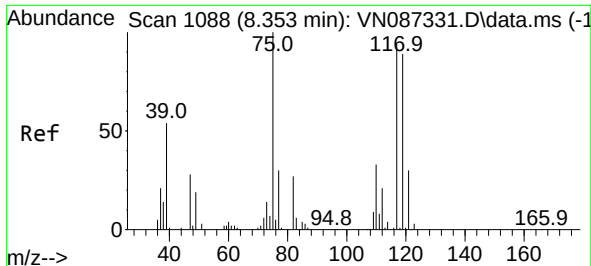
Ion Ratio Lower Upper

113 100

111 100.4 82.5 123.7

192 16.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.585 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087377.D

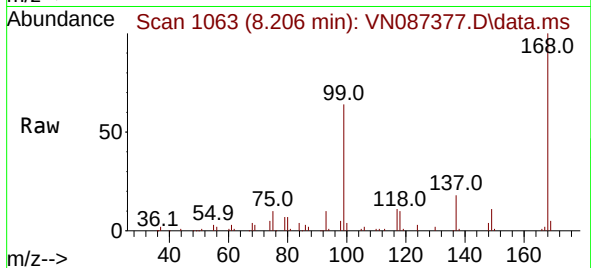
Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

RW5B-CARBON-20250716



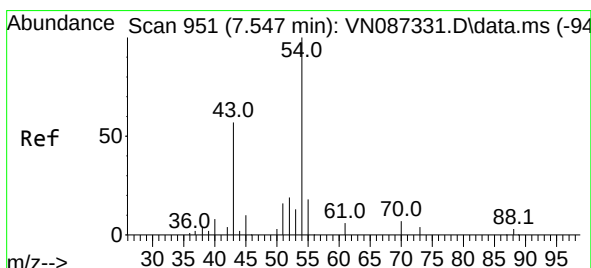
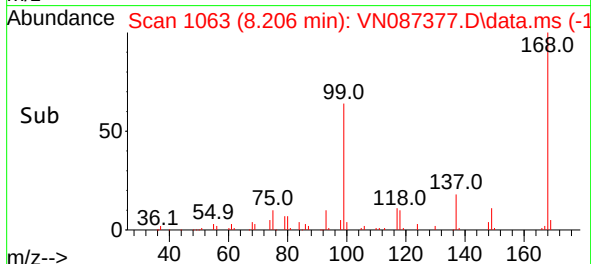
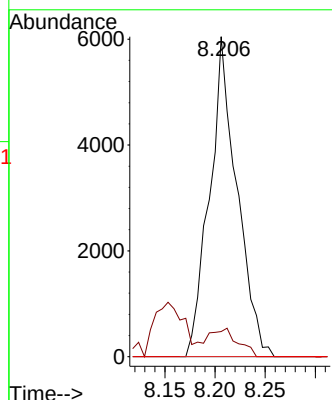
Tgt Ion: 75 Resp: 11471

Ion Ratio Lower Upper

75 100

110 8.8 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 0.900 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.070 min

Lab File: VN087377.D

Acq: 21 Jul 2025 14:16

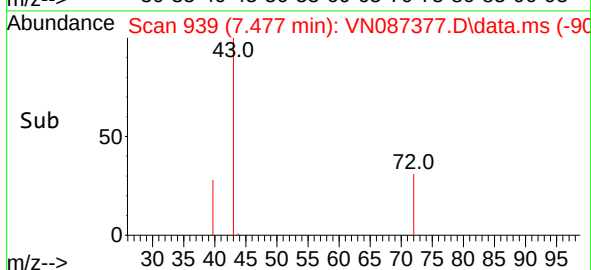
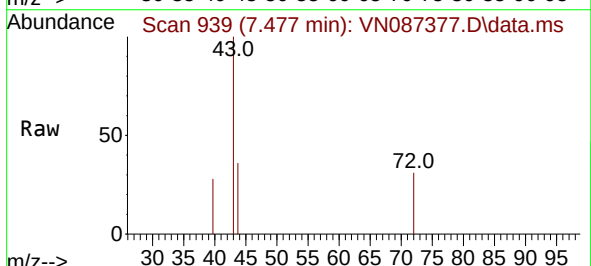
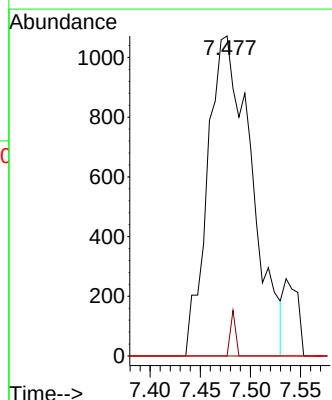
Tgt Ion: 43 Resp: 3253

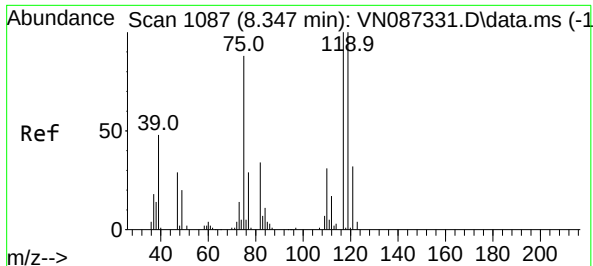
Ion Ratio Lower Upper

43 100

61 1.7 10.9 16.3#

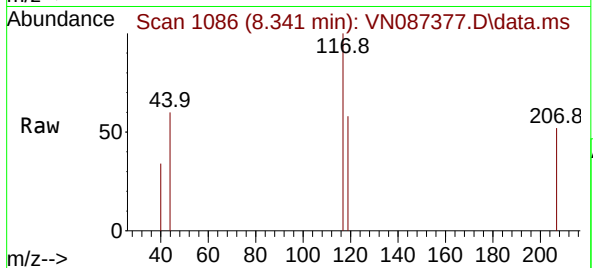
70 0.0 7.4 11.0#



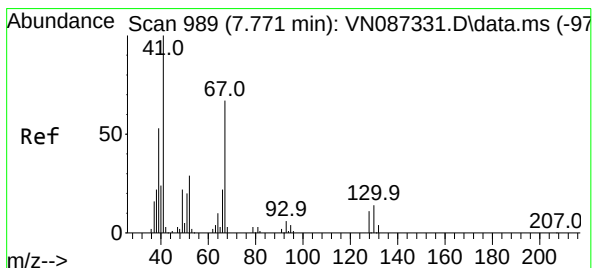
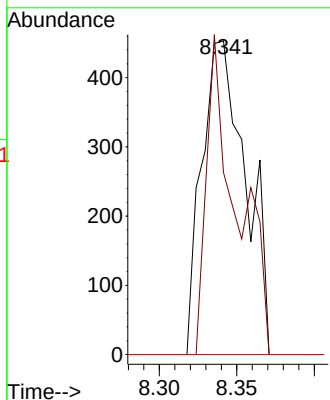
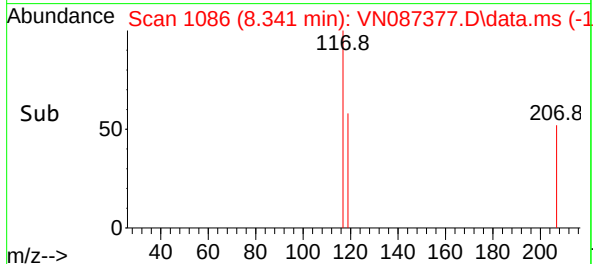


#38
Carbon Tetrachloride
Concen: 0.324 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.006 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Instrument :
MSVOA_N
ClientSampleId :
RW5B-CARBON-20250716

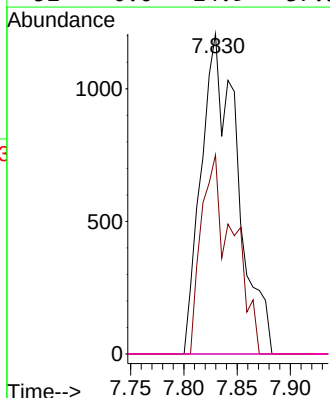
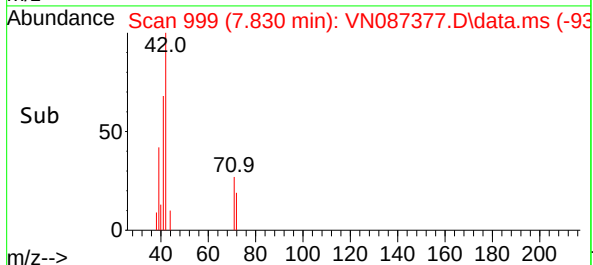
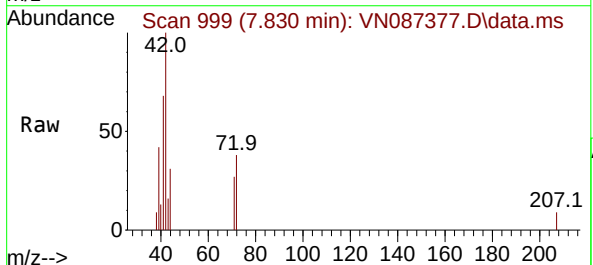


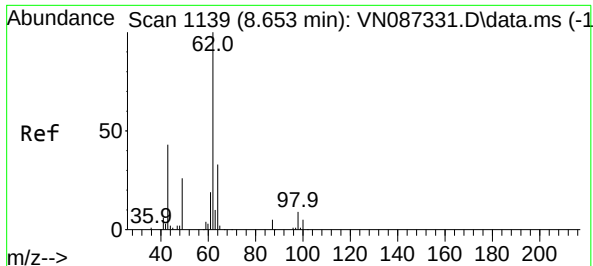
Tgt Ion:117 Resp: 892
Ion Ratio Lower Upper
117 100
119 58.1 80.2 120.2#
121 0.0 25.4 38.2#



#41
Methacrylonitrile
Concen: 1.520 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.059 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Tgt Ion: 41 Resp: 2871
Ion Ratio Lower Upper
41 100
39 54.5 43.4 65.0
67 0.0 55.1 82.7#
52 0.0 24.9 37.3#





#42

1,2-Dichloroethane

Concen: 0.654 ug/l

RT: 8.659 min Scan# 1140

Delta R.T. 0.006 min

Lab File: VN087377.D

Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

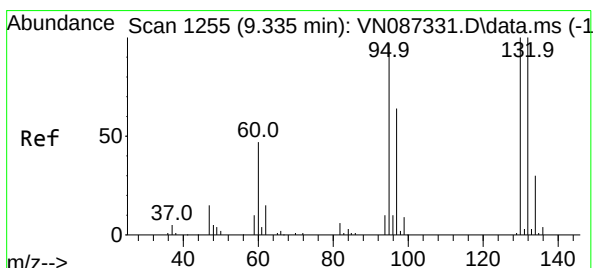
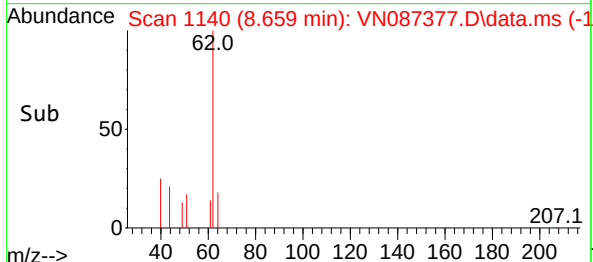
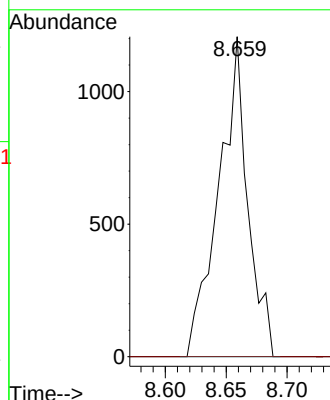
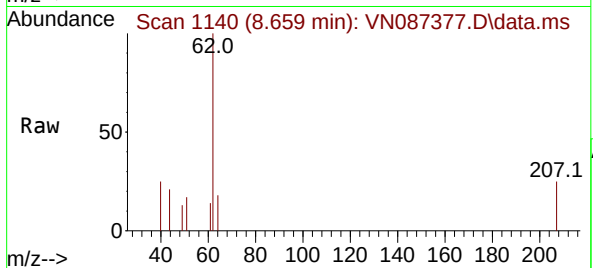
RW5B-CARBON-20250716

Tgt Ion: 62 Resp: 2006

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#44

Trichloroethene

Concen: 1.120 ug/l

RT: 9.335 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VN087377.D

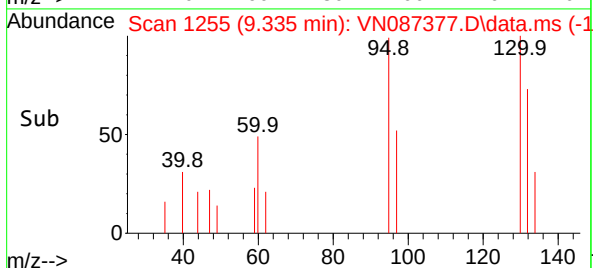
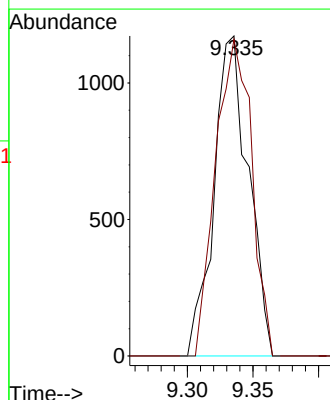
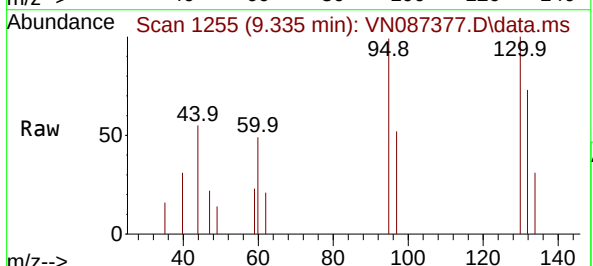
Acq: 21 Jul 2025 14:16

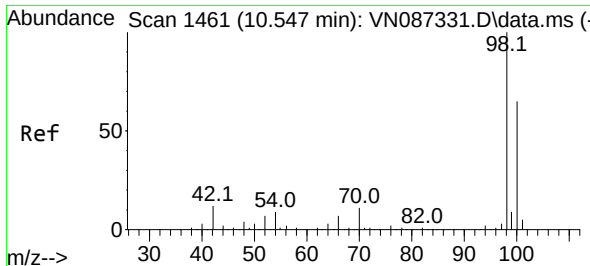
Tgt Ion:130 Resp: 2139

Ion Ratio Lower Upper

130 100

95 98.9 0.0 195.2

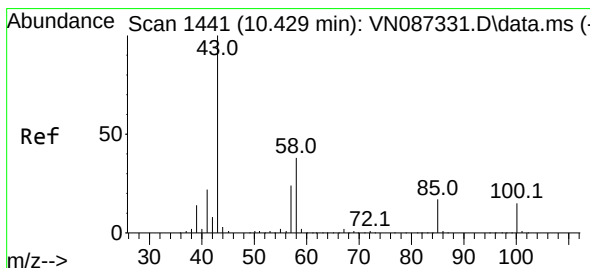
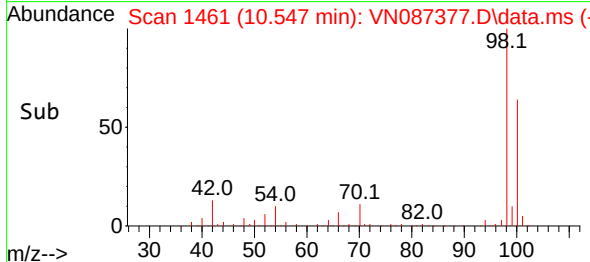
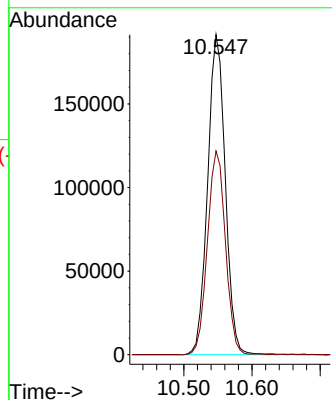
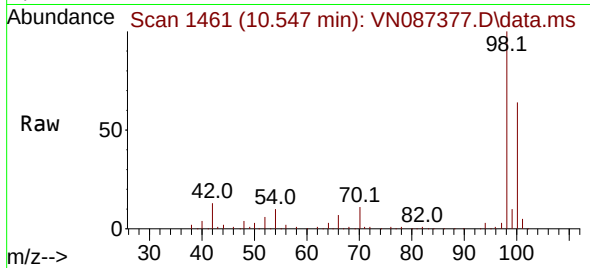




#50
Toluene-d8
Concen: 50.992 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

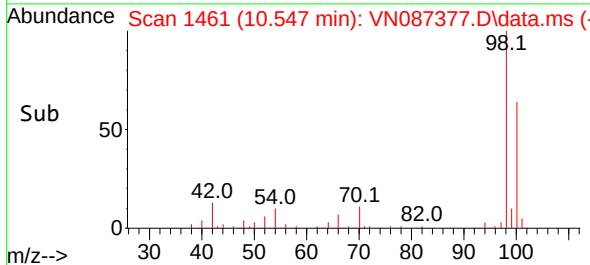
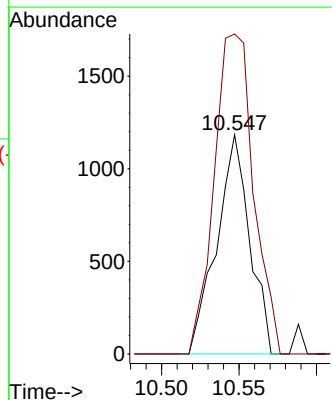
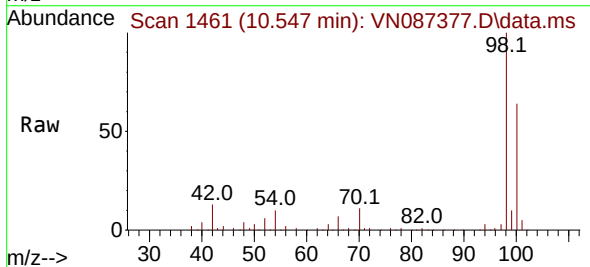
Instrument :
MSVOA_N
ClientSampleId :
RW5B-CARBON-20250716

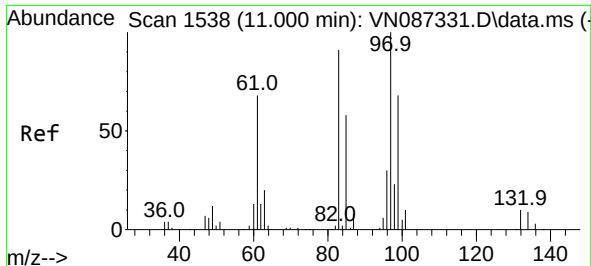
Tgt Ion: 98 Resp: 344439
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.494 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.118 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

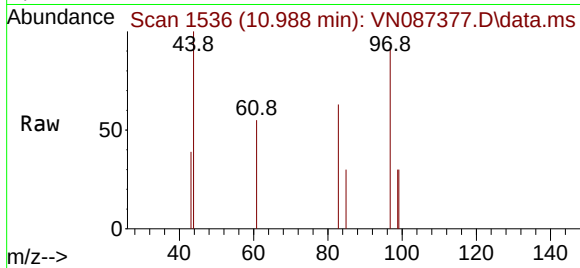
Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
58 174.4 30.8 46.2#



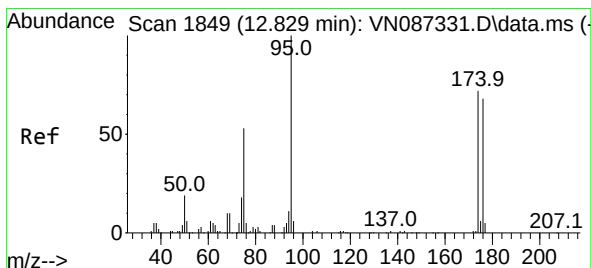
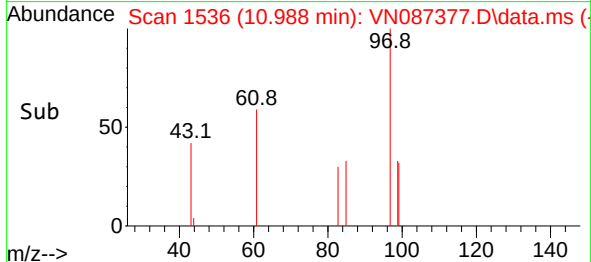
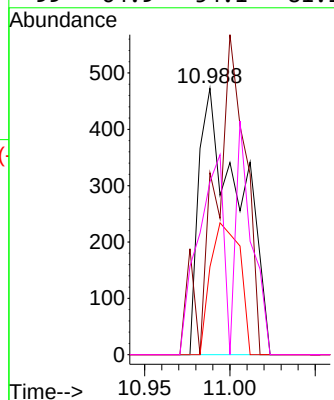


#55
 1,1,2-Trichloroethane
 Concen: 0.396 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. -0.012 min
 Lab File: VN087377.D
 Acq: 21 Jul 2025 14:16

Instrument :
 MSVOA_N
 ClientSampleId :
 RW5B-CARBON-20250716

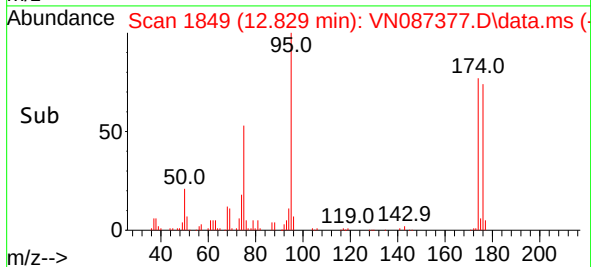
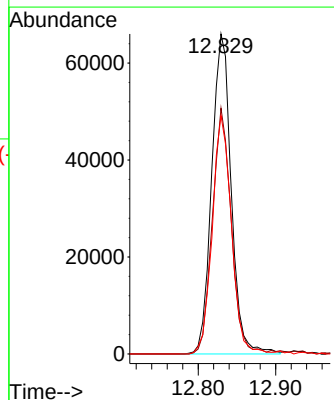
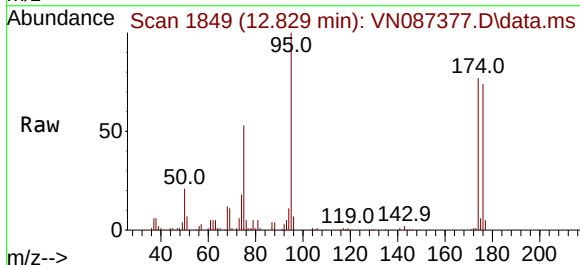


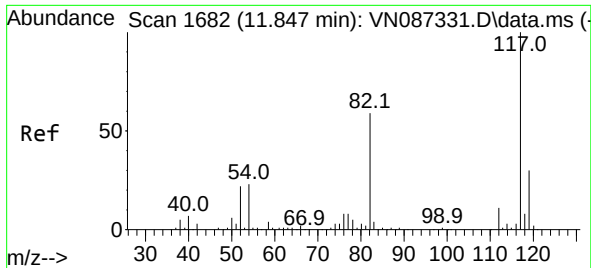
Tgt Ion: 97	Resp: 788
Ion Ratio	Lower Upper
97 100	
83 68.3	72.6 109.0#
85 33.0	46.7 70.1#
99 64.9	54.1 81.1



#62
 4-Bromofluorobenzene
 Concen: 46.206 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.000 min
 Lab File: VN087377.D
 Acq: 21 Jul 2025 14:16

Tgt Ion: 95	Resp: 115311
Ion Ratio	Lower Upper
95 100	
174 74.2	0.0 149.4
176 73.2	0.0 141.2

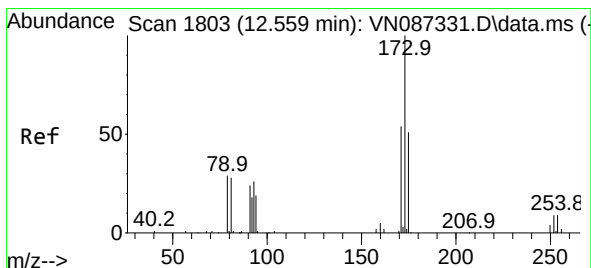
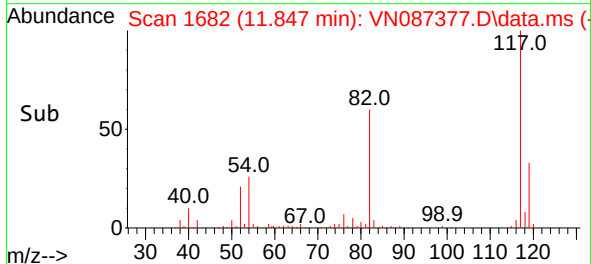
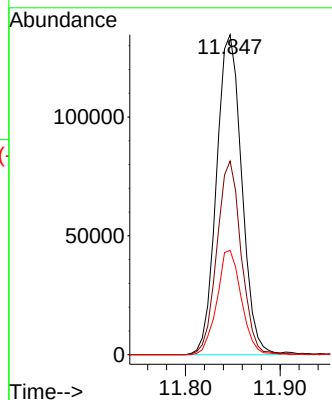
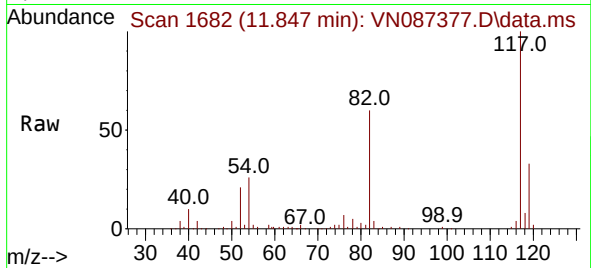




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11847
Delta R.T. 0.000 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

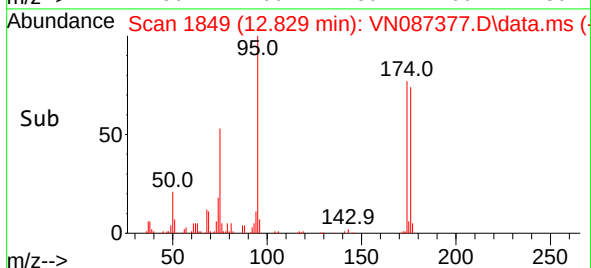
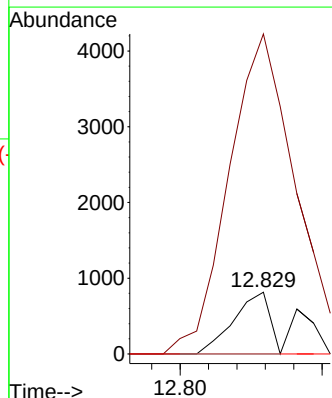
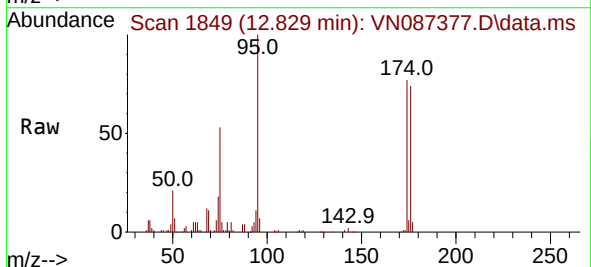
Instrument :
MSVOA_N
ClientSampleId :
RW5B-CARBON-20250716

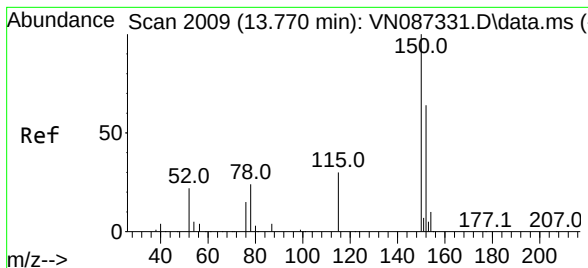
Tgt Ion:117 Resp: 249654
Ion Ratio Lower Upper
117 100
82 60.5 47.4 71.2
119 32.6 23.8 35.8



#71
Bromoform
Concen: 0.470 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN087377.D
Acq: 21 Jul 2025 14:16

Tgt Ion:173 Resp: 723
Ion Ratio Lower Upper
173 100
175 746.6 24.1 72.3#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087377.D

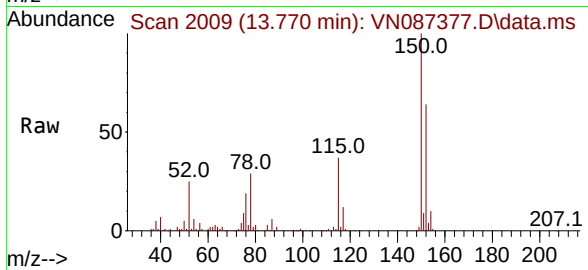
Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

RW5B-CARBON-20250716



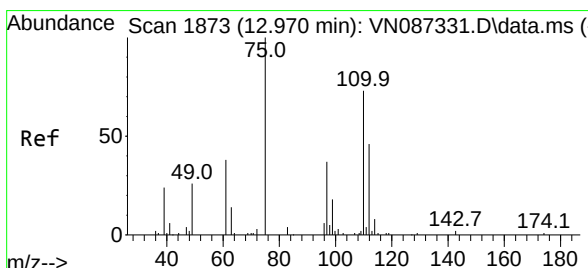
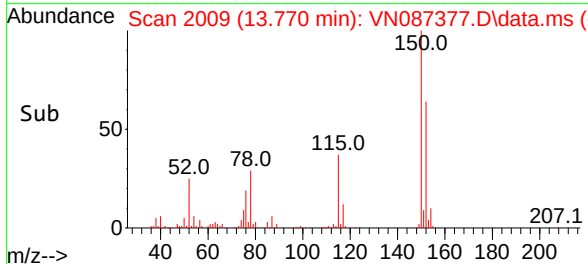
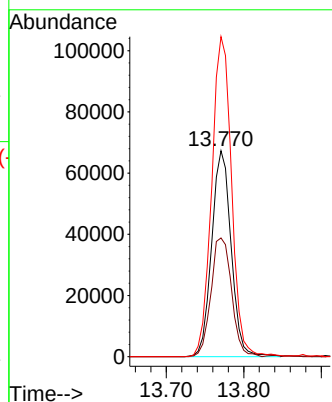
Tgt Ion:152 Resp: 117578

Ion Ratio Lower Upper

152 100

115 61.0 31.1 93.5

150 158.2 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.111 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087377.D

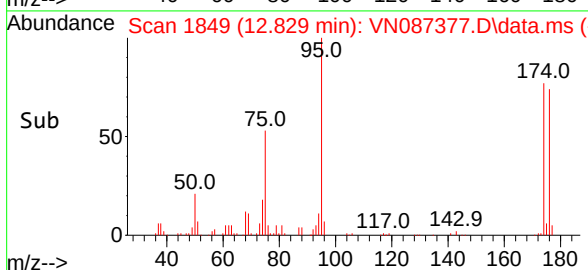
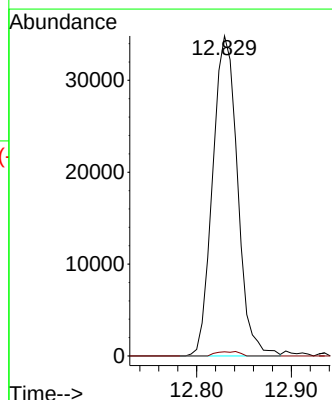
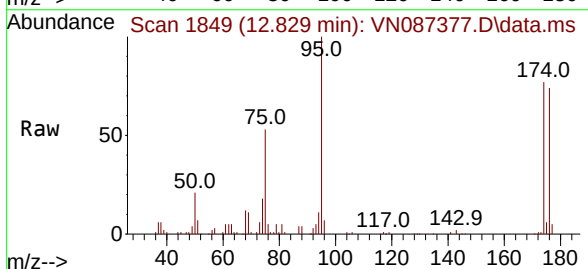
Acq: 21 Jul 2025 14:16

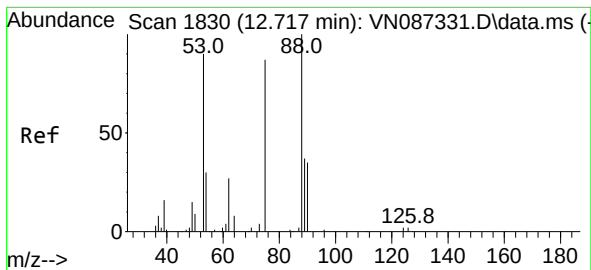
Tgt Ion: 75 Resp: 63570

Ion Ratio Lower Upper

75 100

77 1.3 94.5 283.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.971 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN087377.D

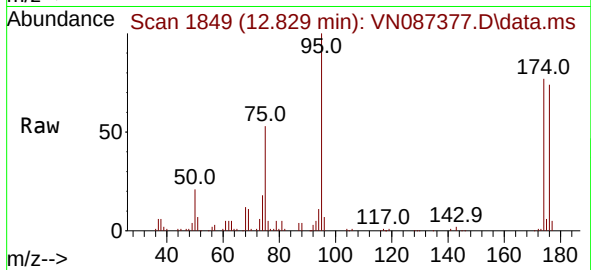
Acq: 21 Jul 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

RW5B-CARBON-20250716



Tgt Ion: 75 Resp: 63570

Ion Ratio Lower Upper

75 100

53 0.1 83.5 125.3#

89 0.0 38.4 57.6#

