

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087516.D
 Acq On : 12 Aug 2025 15:51
 Operator : JC\MD
 Sample : Q2816-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1060-FB080725

Quant Time: Aug 13 03:06:36 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)

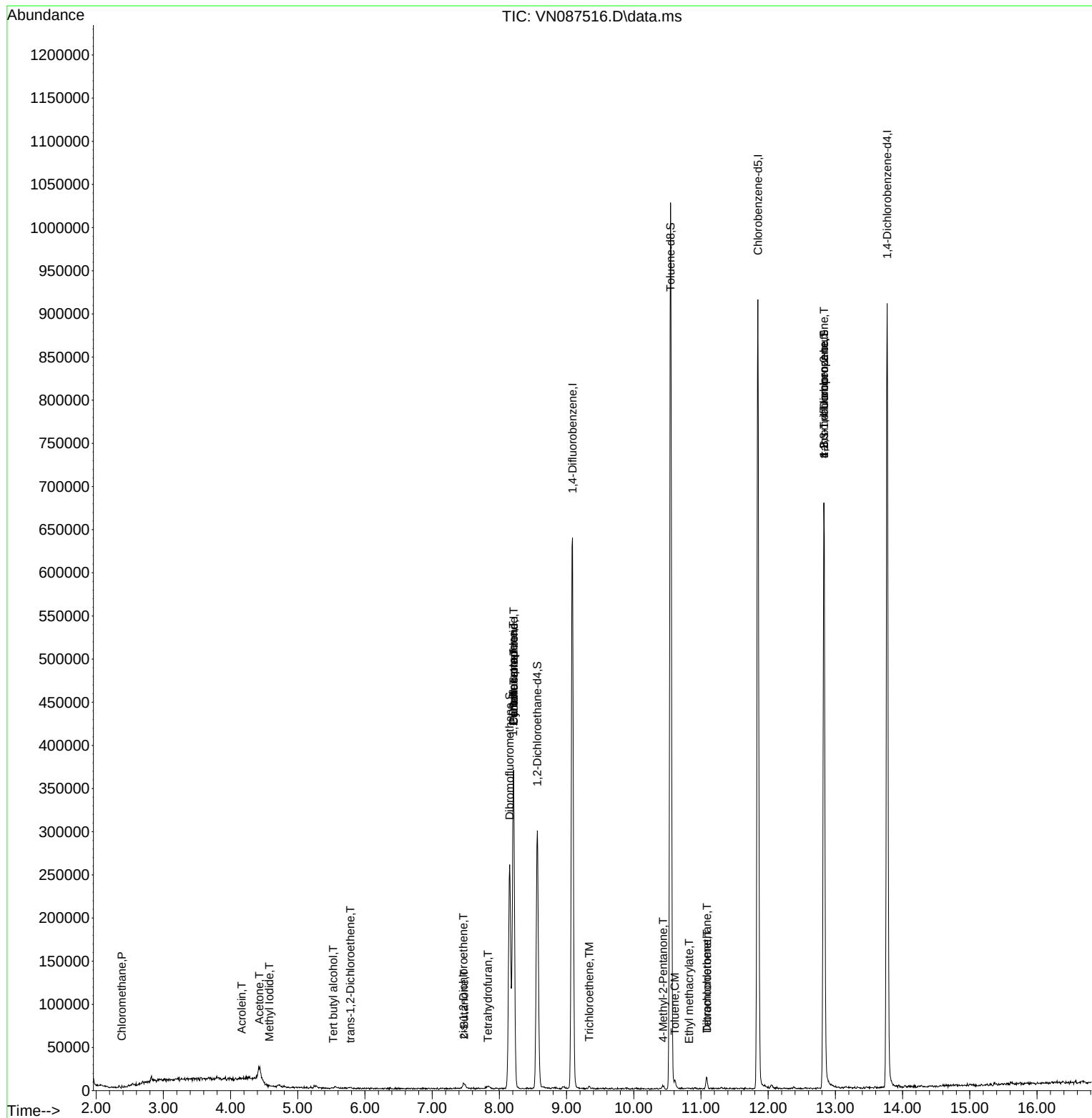
Internal Standards						
1) Pentafluorobenzene	8.212	168	243184	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.088	114	520707	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	486987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	251136	60.862	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 121.720%	
35) Dibromofluoromethane	8.153	113	183254	51.020	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.040%	
50) Toluene-d8	10.547	98	679315	53.020	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.040%	
62) 4-Bromofluorobenzene	12.829	95	247204	52.223	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.440%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	897	0.276	ug/l	# 54
10) Methyl Iodide	4.577	142	140	5.681	ug/l	# 40
11) Tert butyl alcohol	5.530	59	558	0.712	ug/l	99
13) Acrolein	4.165	56	606	0.964	ug/l	# 77
16) Acetone	4.430	43	28233	14.593	ug/l	95
20) Methylene Chloride	5.247	84	885	Below Cal	#	44
21) trans-1,2-Dichloroethene	5.783	96	700	0.224	ug/l	93
25) 2-Butanone	7.477	43	7490	2.506	ug/l	# 87
27) cis-1,2-Dichloroethene	7.465	96	2070	0.574	ug/l	55
29) Tetrahydrofuran	7.830	42	1306	0.673	ug/l	# 88
31) Cyclohexane	8.212	56	9022	1.779	ug/l	# 37
36) 1,1-Dichloropropene	8.206	75	24924	5.252	ug/l	# 45
38) Carbon Tetrachloride	8.212	117	29018	5.551	ug/l	# 15
44) Trichloroethene	9.335	130	932	0.257	ug/l	78
51) 4-Methyl-2-Pentanone	10.435	43	3086	0.459	ug/l	# 86
52) Toluene	10.612	92	3978	0.427	ug/l	80
56) Ethyl methacrylate	10.823	69	154	0.660	ug/l	# 1
60) Dibromochloromethane	11.088	129	2786	0.647	ug/l	# 10
64) Tetrachloroethene	11.088	164	2773	0.885	ug/l	# 82
76) 1,2,3-Trichloropropane	12.829	75	142819	27.827	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.829	75	142819	76.138	ug/l	# 8

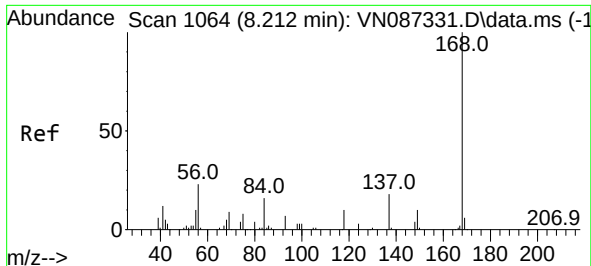
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
Data File : VN087516.D
Acq On : 12 Aug 2025 15:51
Operator : JC\MD
Sample : Q2816-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

Quant Time: Aug 13 03:06:36 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

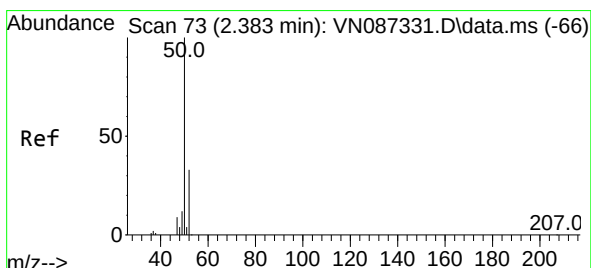
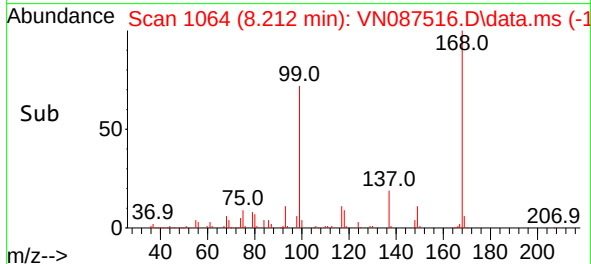
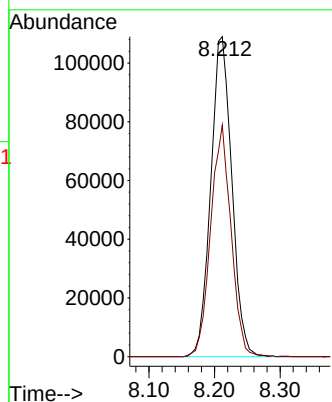
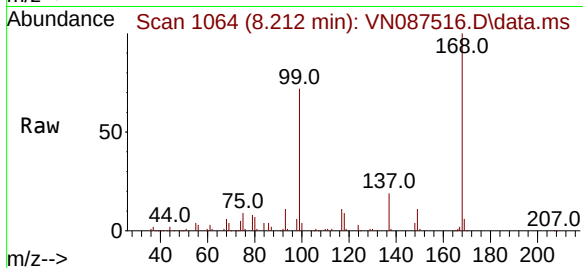




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

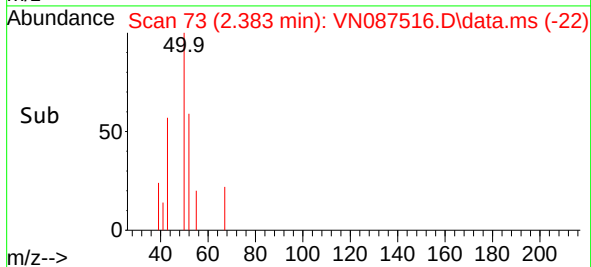
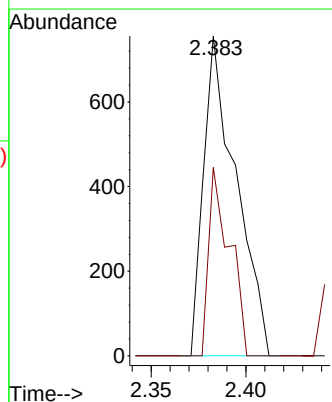
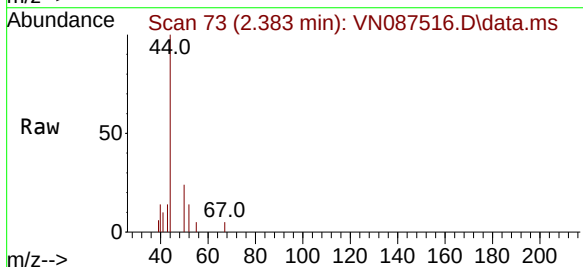
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

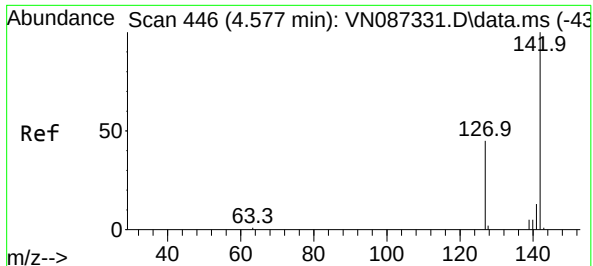
Tgt Ion:168 Resp: 243184
Ion Ratio Lower Upper
168 100
99 72.4 47.9 71.9#



#3
Chloromethane
Concen: 0.276 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 50 Resp: 897
Ion Ratio Lower Upper
50 100
52 58.9 26.3 39.5#

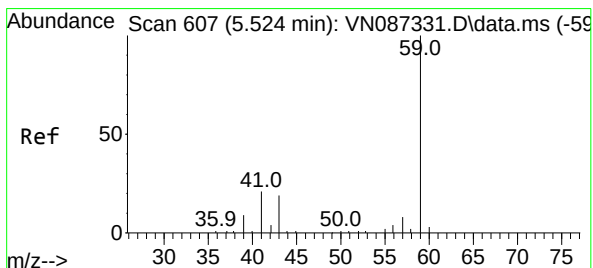
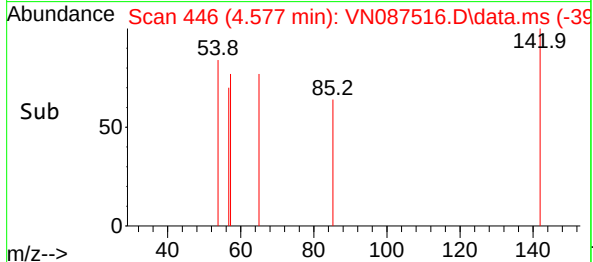
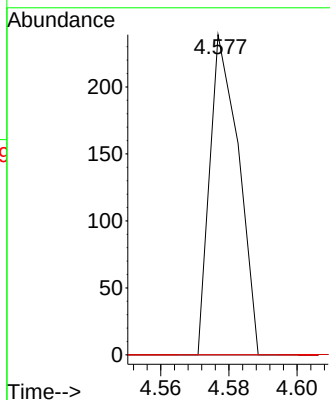
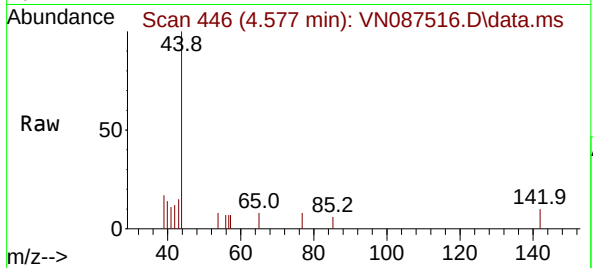




#10
Methyl Iodide
Concen: 5.681 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

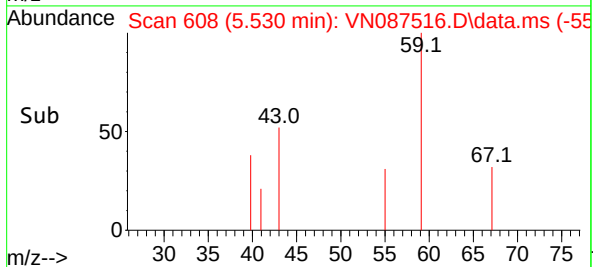
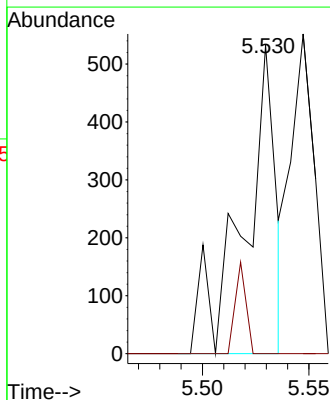
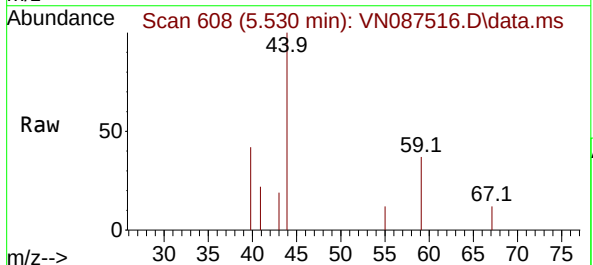
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

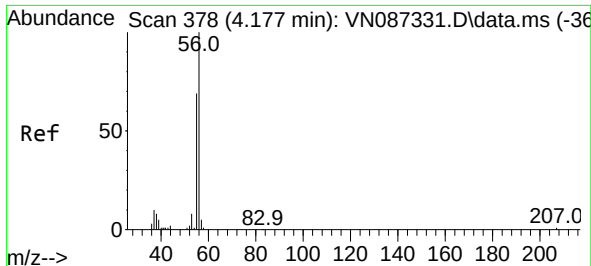
Tgt Ion:142 Resp: 140
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.712 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 59 Resp: 558
Ion Ratio Lower Upper
59 100
57 10.0 8.3 12.5

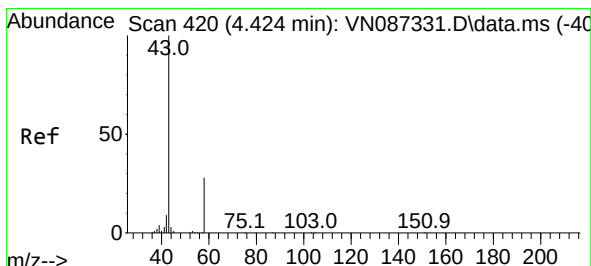
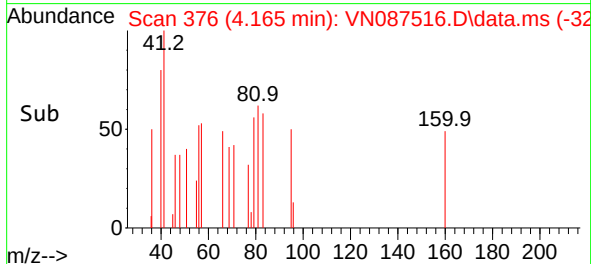
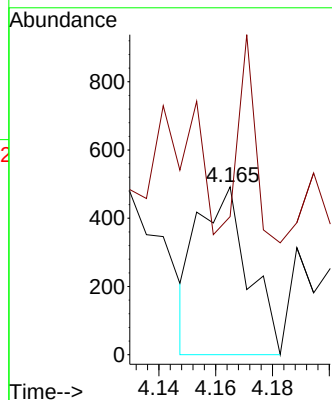
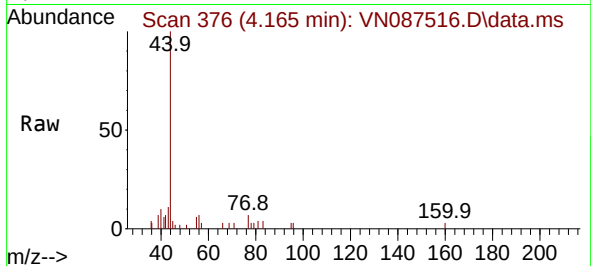




#13
Acrolein
Concen: 0.964 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

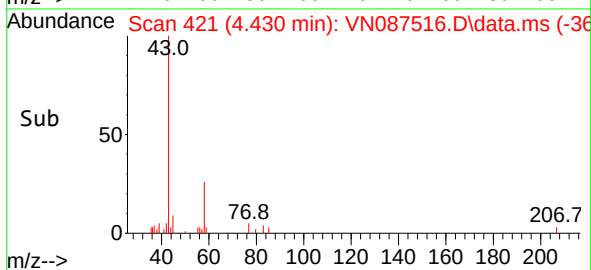
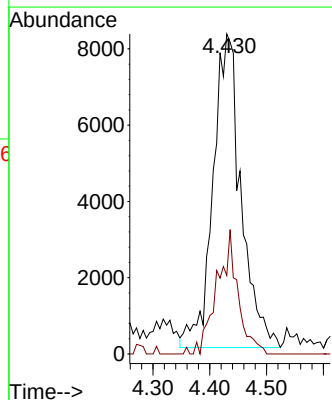
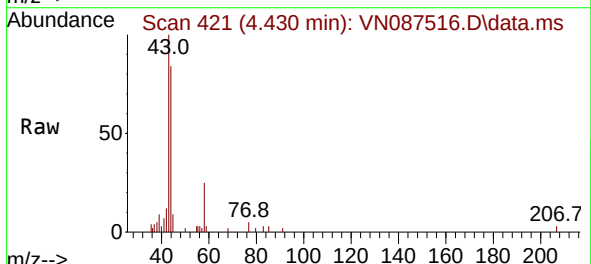
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

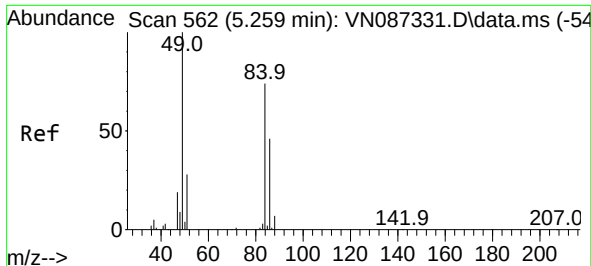
Tgt Ion: 56 Resp: 606
Ion Ratio Lower Upper
56 100
55 51.2 56.2 84.4#



#16
Acetone
Concen: 14.593 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 43 Resp: 28233
Ion Ratio Lower Upper
43 100
58 25.1 22.3 33.5

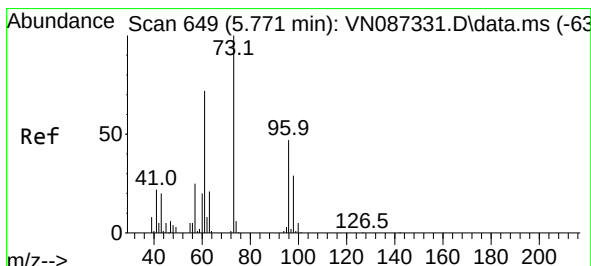
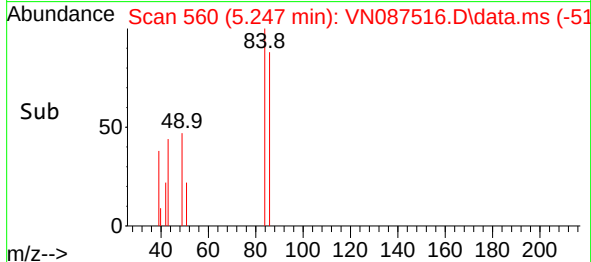
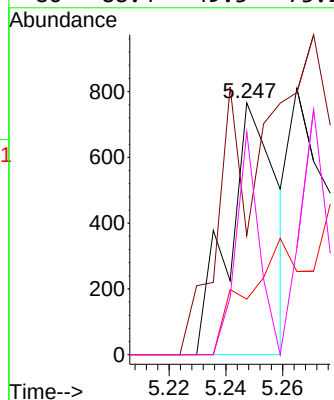
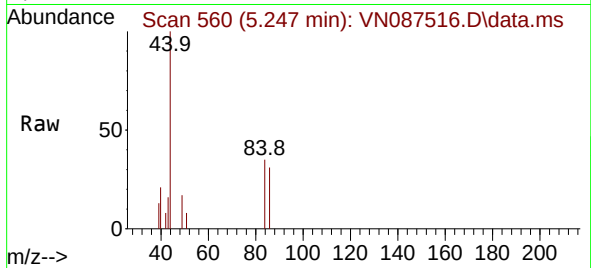




#20
Methylene Chloride
Concen: Below Cal
RT: 5.247 min Scan# 501
Delta R.T. -0.012 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

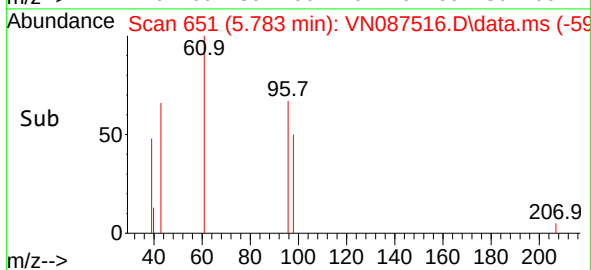
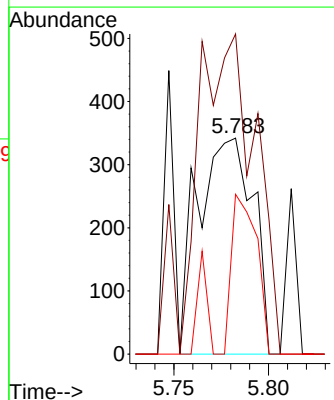
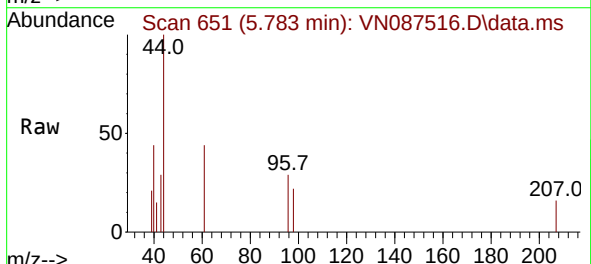
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

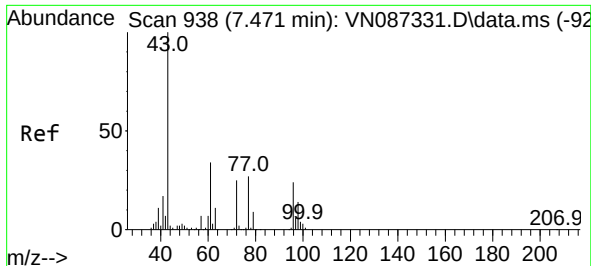
Tgt Ion: 84 Resp: 885
Ion Ratio Lower Upper
84 100
49 47.3 107.5 161.3#
51 22.1 30.2 45.2#
86 88.4 49.3 73.9#



#21
trans-1,2-Dichloroethene
Concen: 0.224 ug/l
RT: 5.783 min Scan# 651
Delta R.T. 0.012 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 96 Resp: 700
Ion Ratio Lower Upper
96 100
61 148.2 122.0 183.0
98 74.0 50.0 75.0

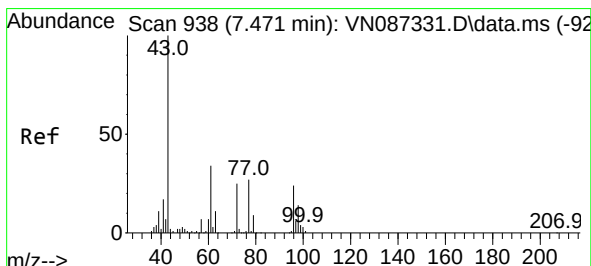
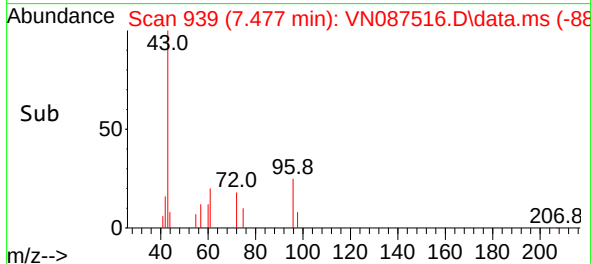
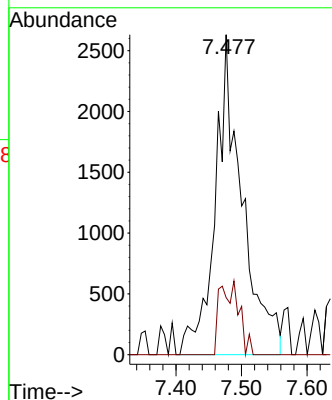
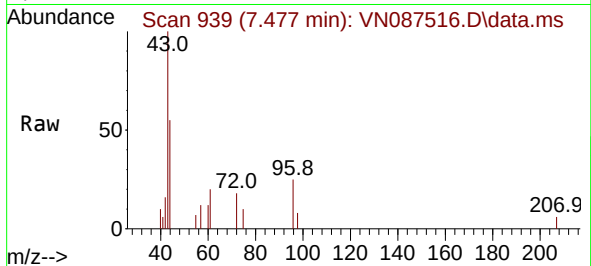




#25
2-Butanone
Concen: 2.506 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

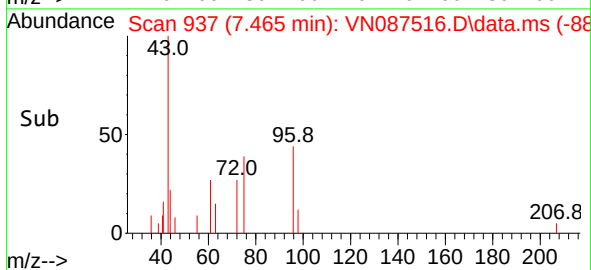
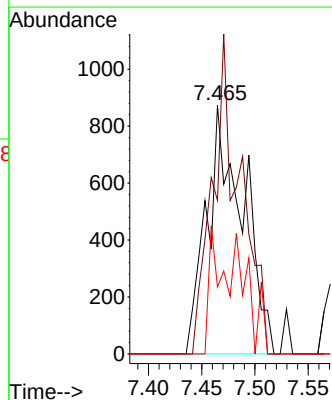
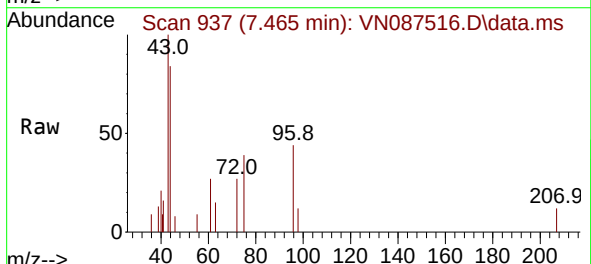
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

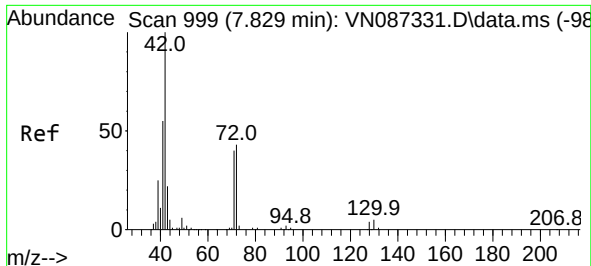
Tgt Ion: 43 Resp: 7490
Ion Ratio Lower Upper
43 100
72 17.9 19.6 29.4#



#27
cis-1,2-Dichloroethene
Concen: 0.574 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 96 Resp: 2070
Ion Ratio Lower Upper
96 100
61 98.4 0.0 297.8
98 20.1 0.0 132.4





#29

Tetrahydrofuran

Concen: 0.673 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

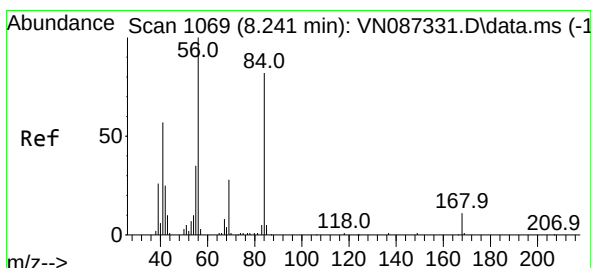
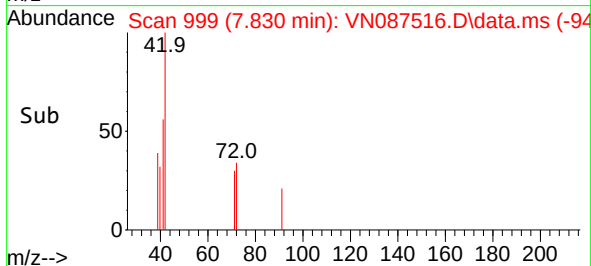
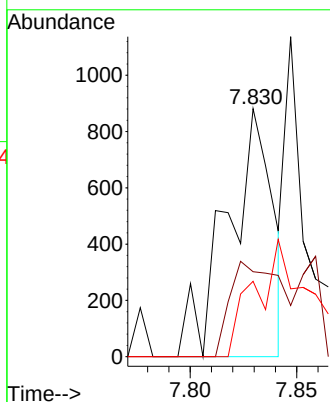
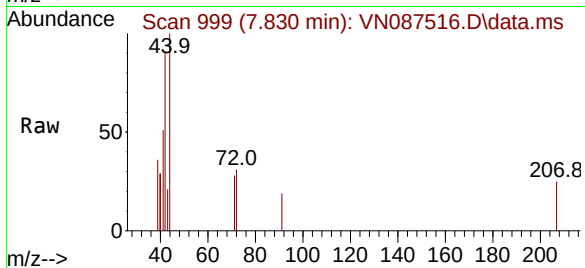
Instrument :

MSVOA_N

ClientSampleId :

1060-FB080725

Tgt Ion:	42	Resp:	1306
Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.4	50.0
71	52.3	31.2	46.8



#31

Cyclohexane

Concen: 1.779 ug/l

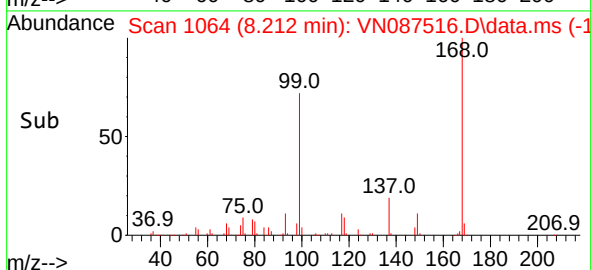
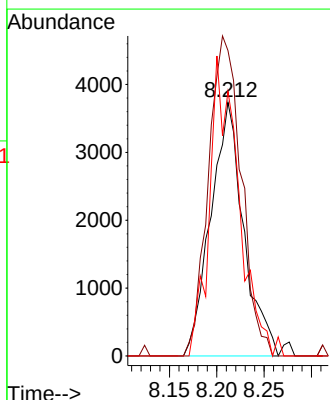
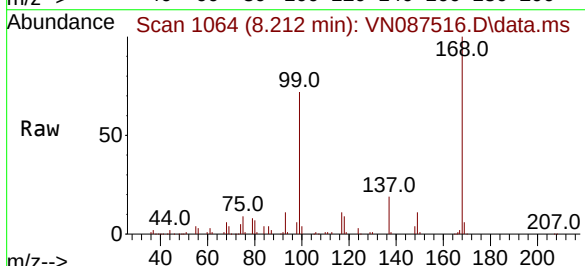
RT: 8.212 min Scan# 1064

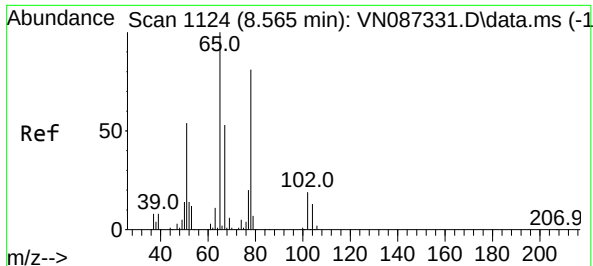
Delta R.T. -0.029 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

Tgt Ion:	56	Resp:	9022
Ion	Ratio	Lower	Upper
56	100		
69	120.4	22.7	34.1
84	104.3	65.8	98.6





#33

1,2-Dichloroethane-d4

Concen: 60.862 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

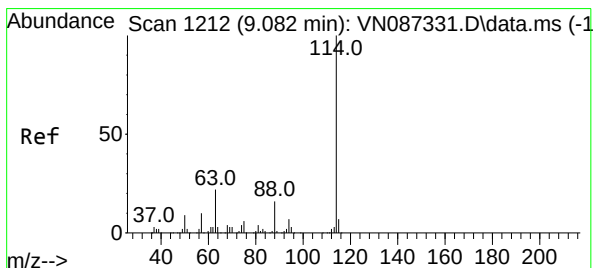
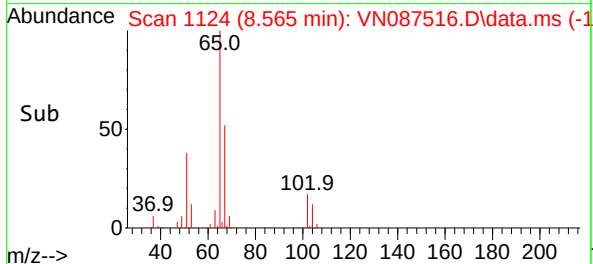
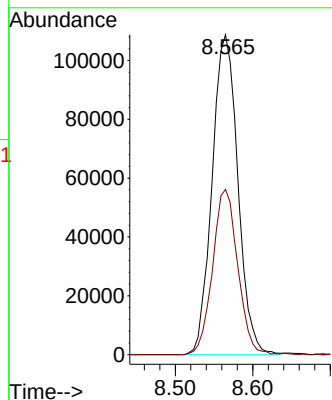
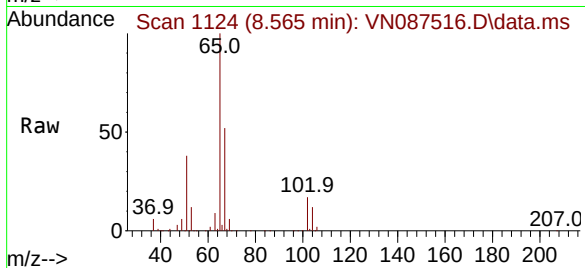
1060-FB080725

Tgt Ion: 65 Resp: 251136

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

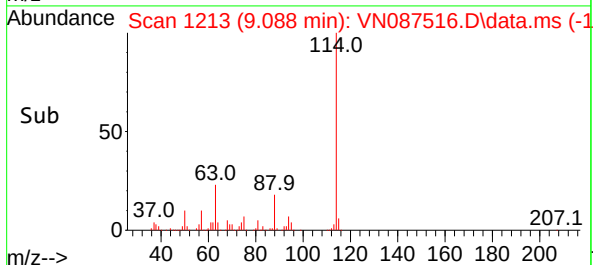
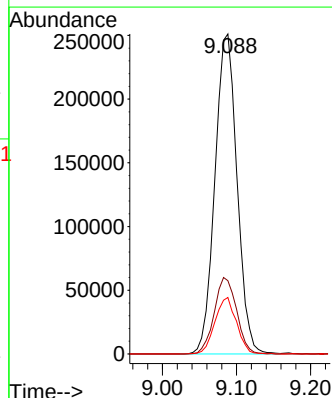
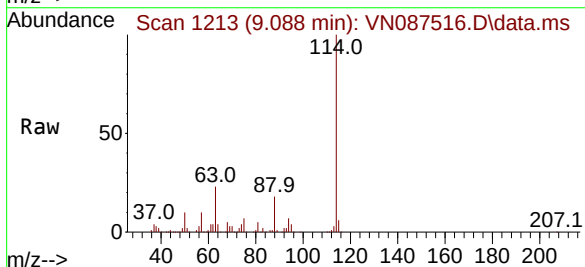
Tgt Ion: 114 Resp: 520707

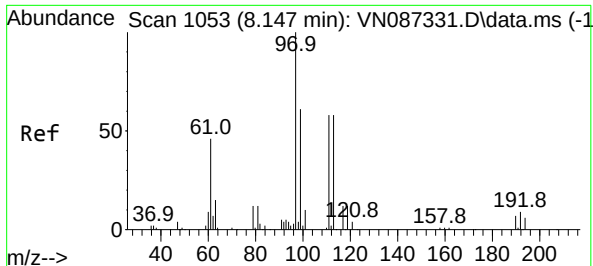
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

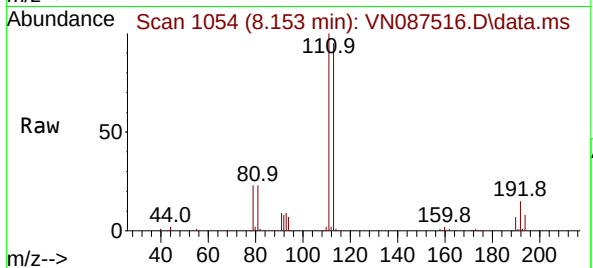
88 17.6 0.0 32.8



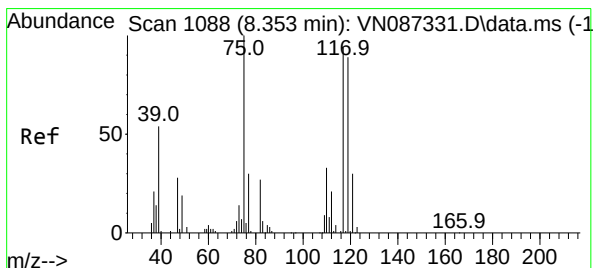
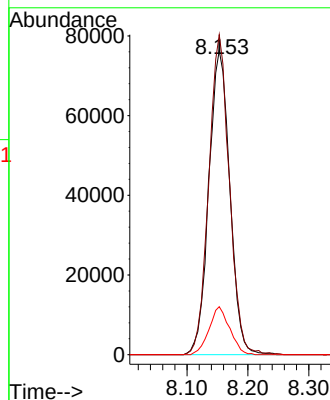
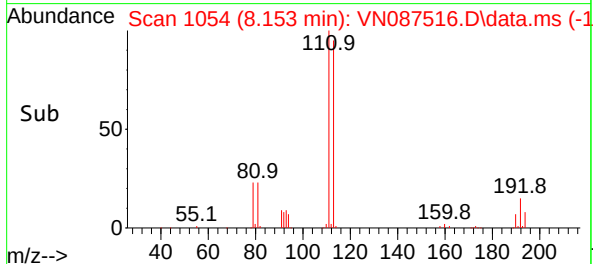


#35
Dibromofluoromethane
Concen: 51.020 ug/l
RT: 8.153 min Scan# 1063
Delta R.T. 0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

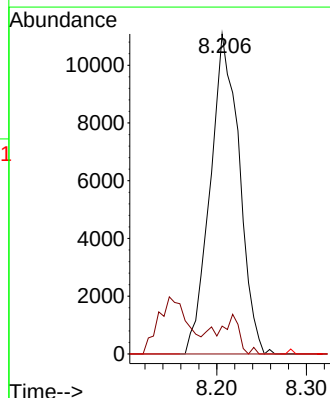
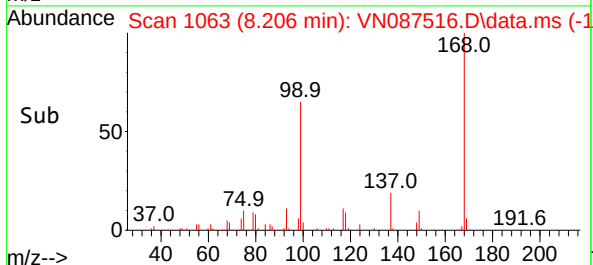
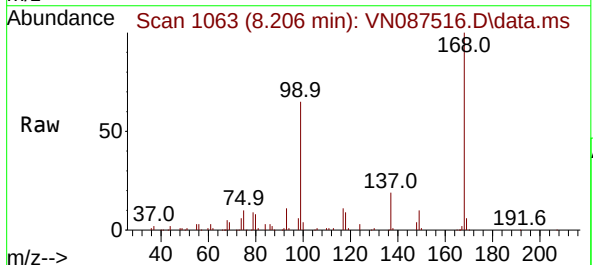


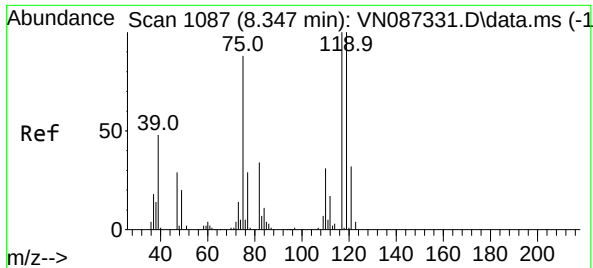
Tgt Ion: 113 Resp: 183254
Ion Ratio Lower Upper
113 100
111 103.0 82.5 123.7
192 15.5 13.7 20.5



#36
1,1-Dichloropropene
Concen: 5.252 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 75 Resp: 24924
Ion Ratio Lower Upper
75 100
110 3.3 16.7 50.1#
77 0.0 25.2 37.8#

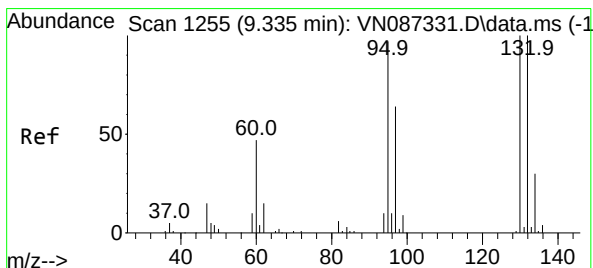
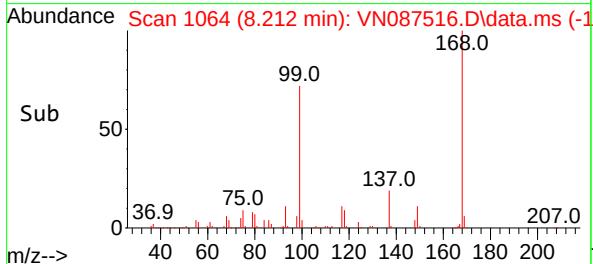
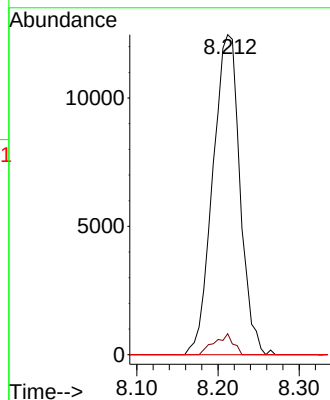
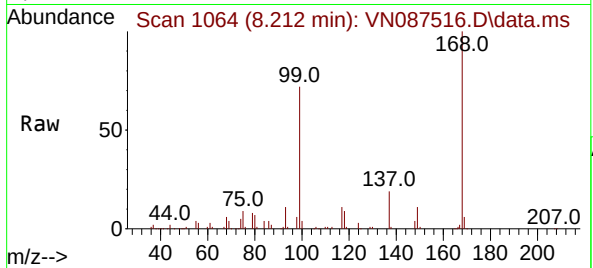




#38
Carbon Tetrachloride
Concen: 5.551 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

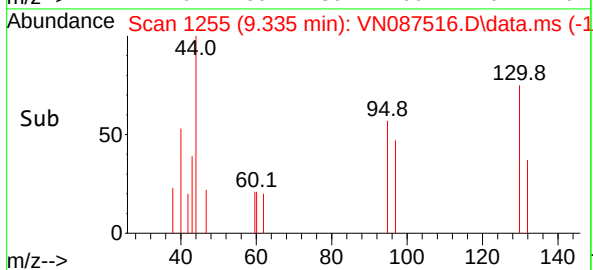
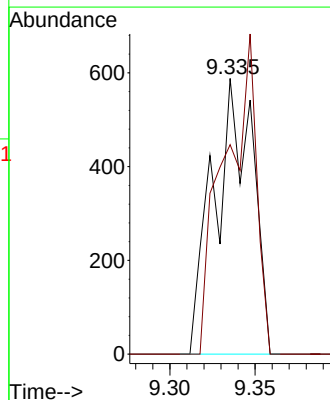
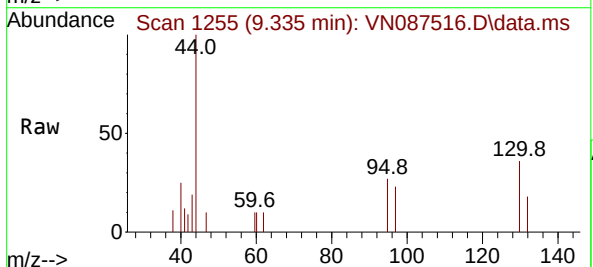
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

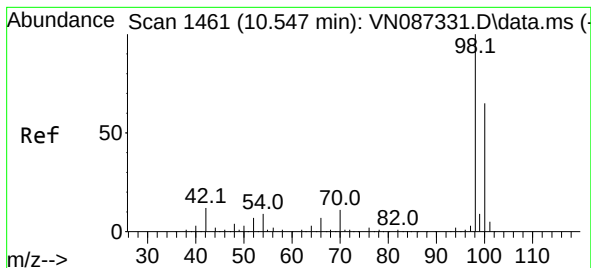
Tgt Ion:117 Resp: 29018
Ion Ratio Lower Upper
117 100
119 6.6 80.2 120.2#
121 0.0 25.4 38.2#



#44
Trichloroethene
Concen: 0.257 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion:130 Resp: 932
Ion Ratio Lower Upper
130 100
95 76.0 0.0 195.2

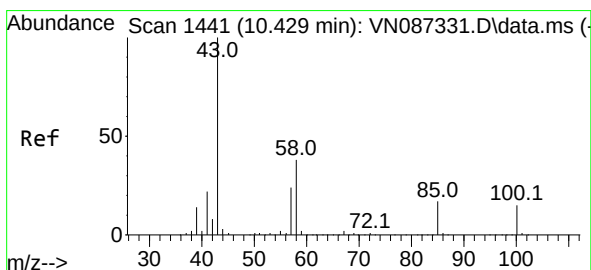
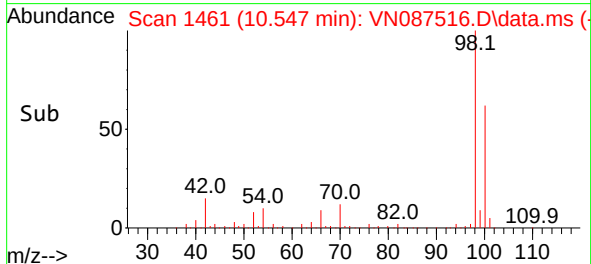
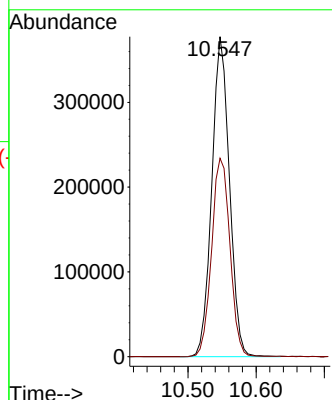
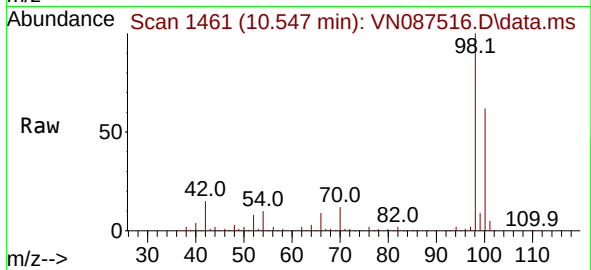




#50
Toluene-d8
Concen: 53.020 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

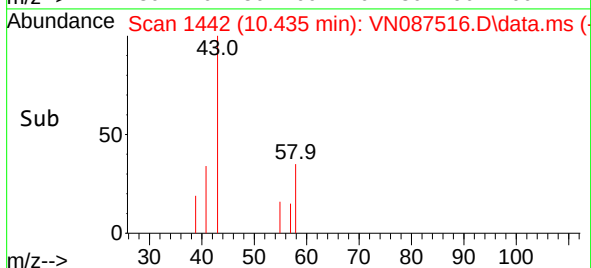
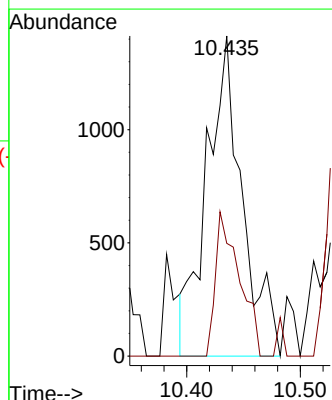
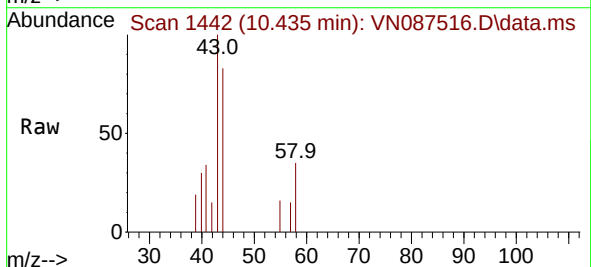
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

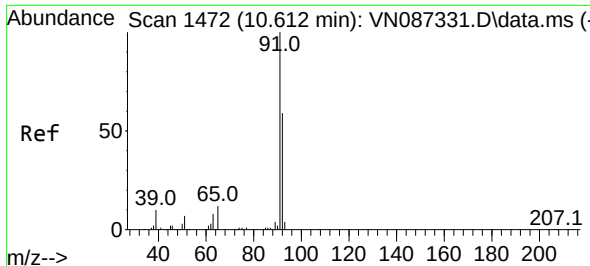
Tgt Ion: 98 Resp: 679315
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.459 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.006 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 43 Resp: 3086
Ion Ratio Lower Upper
43 100
58 30.2 30.8 46.2#

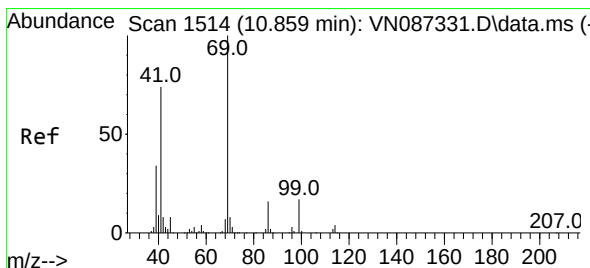
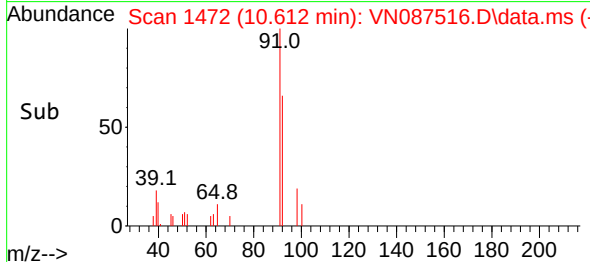
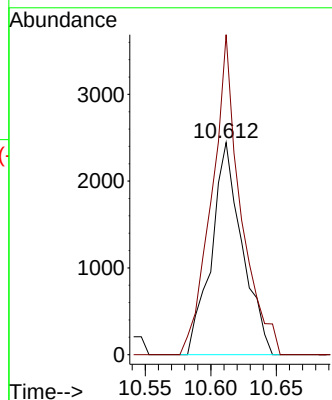
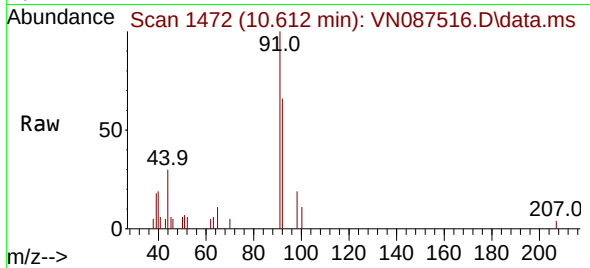




#52
Toluene
Concen: 0.427 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

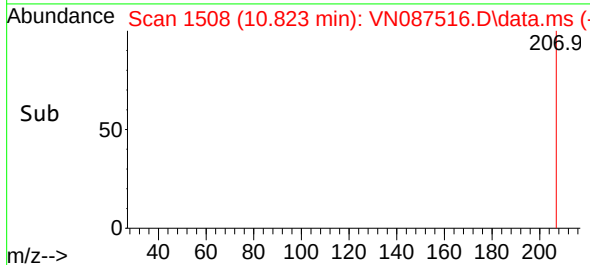
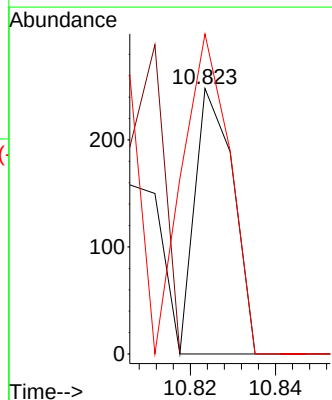
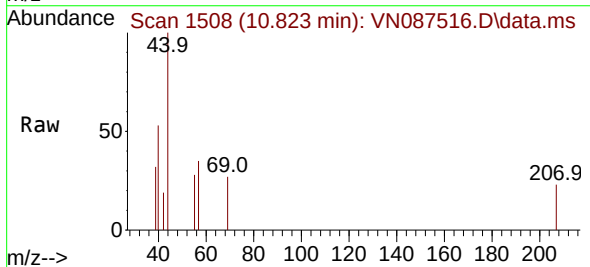
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

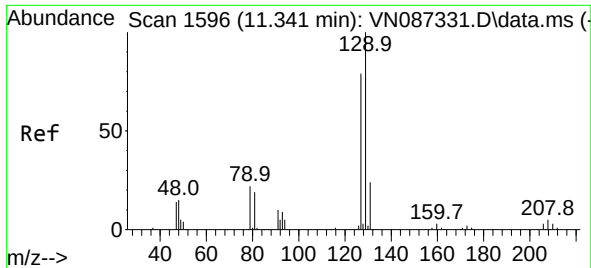
Tgt Ion: 92 Resp: 3978
Ion Ratio Lower Upper
92 100
91 142.1 135.1 202.7



#56
Ethyl methacrylate
Concen: 0.660 ug/l
RT: 10.823 min Scan# 1508
Delta R.T. -0.036 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 69 Resp: 154
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 150.0 27.9 41.9#

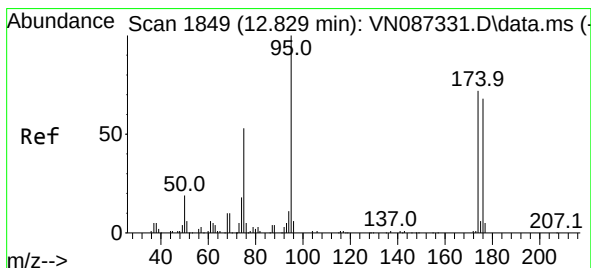
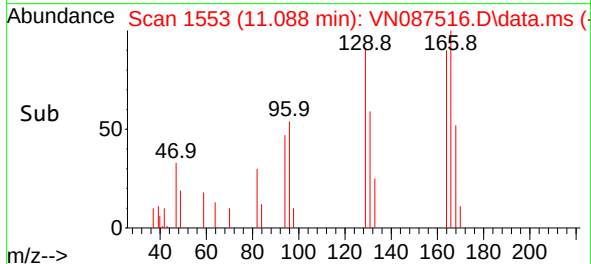
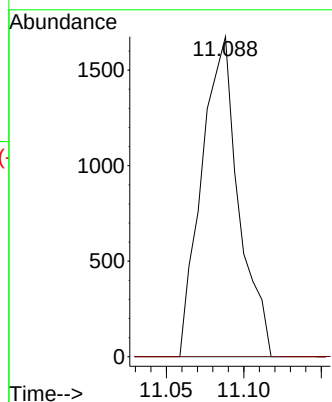
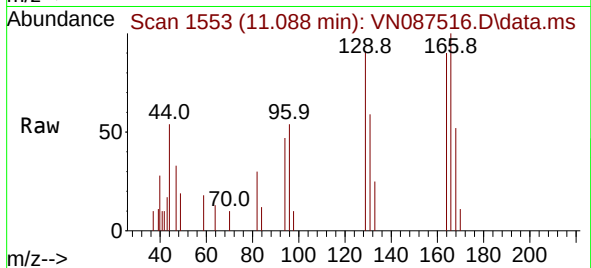




#60
Dibromochloromethane
Concen: 0.647 ug/l
RT: 11.088 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

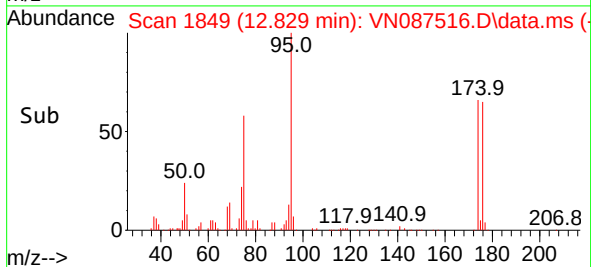
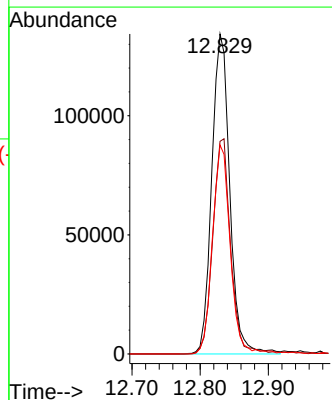
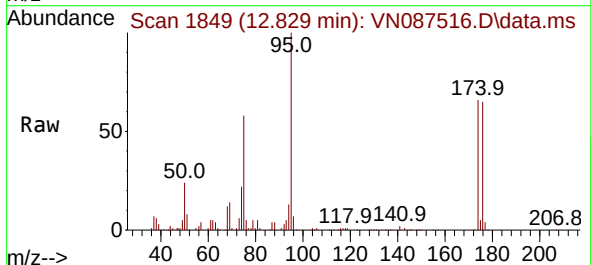
Instrument :
MSVOA_N
ClientSampleId :
1060-FB080725

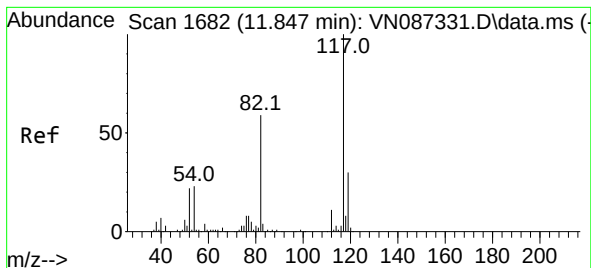
Tgt Ion:129 Resp: 2786
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#



#62
4-Bromofluorobenzene
Concen: 52.223 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087516.D
Acq: 12 Aug 2025 15:51

Tgt Ion: 95 Resp: 247204
Ion Ratio Lower Upper
95 100
174 67.1 0.0 149.4
176 64.4 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

Instrument :

MSVOA_N

ClientSampleId :

1060-FB080725

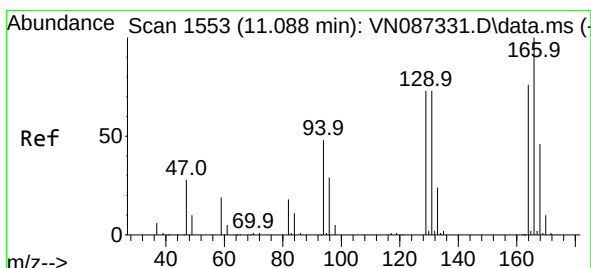
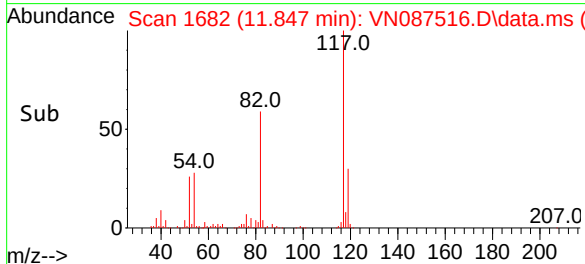
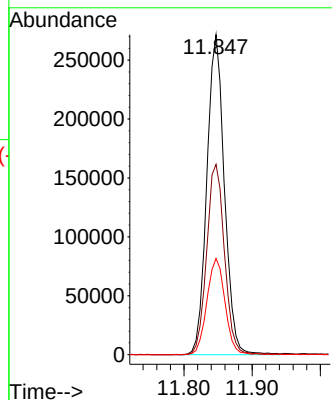
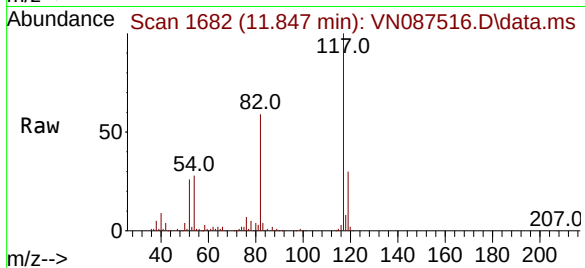
Tgt Ion:117 Resp: 486987

Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.2

119 30.1 23.8 35.8



#64

Tetrachloroethene

Concen: 0.885 ug/l

RT: 11.088 min Scan# 1553

Delta R.T. 0.000 min

Lab File: VN087516.D

Acq: 12 Aug 2025 15:51

Tgt Ion:164 Resp: 2773

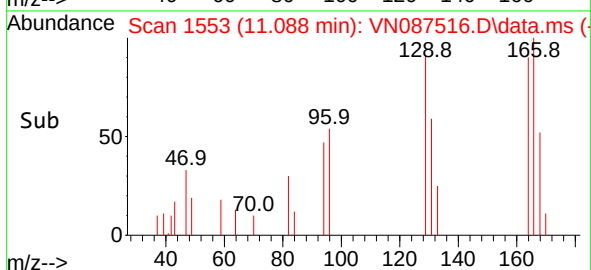
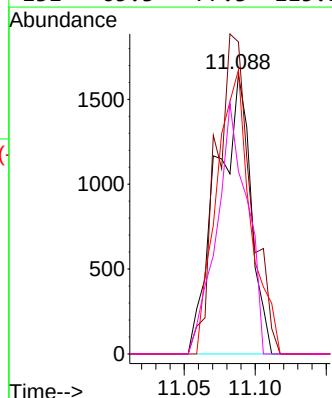
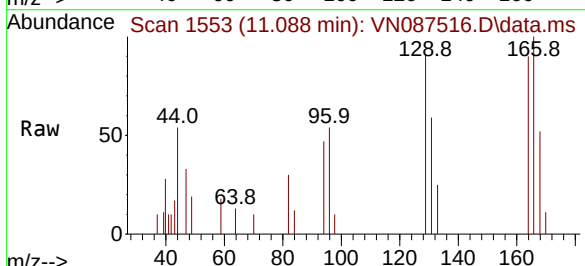
Ion Ratio Lower Upper

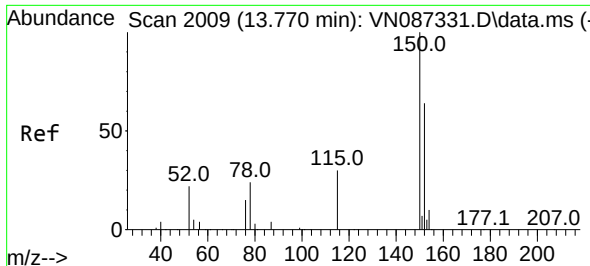
164 100

166 111.5 105.5 158.3

129 101.6 77.4 116.2

131 65.3 77.3 115.9#

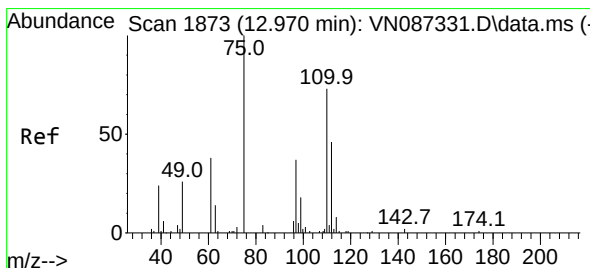
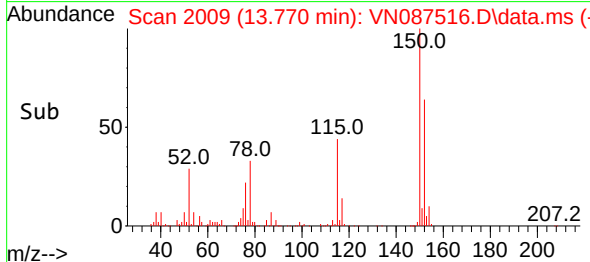
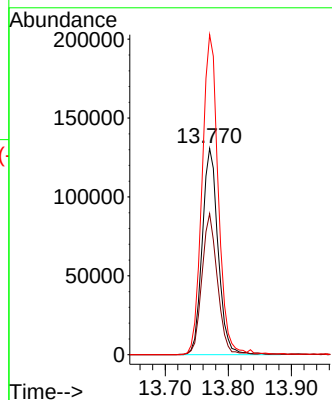
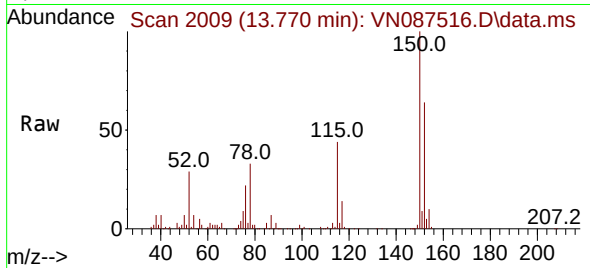




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN087516.D
 Acq: 12 Aug 2025 15:51

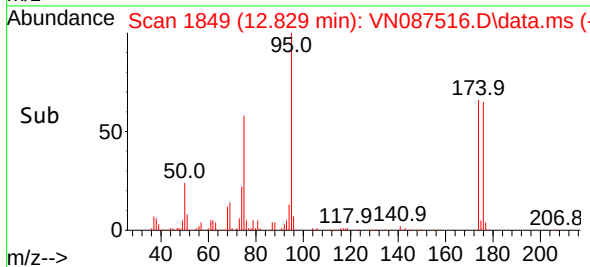
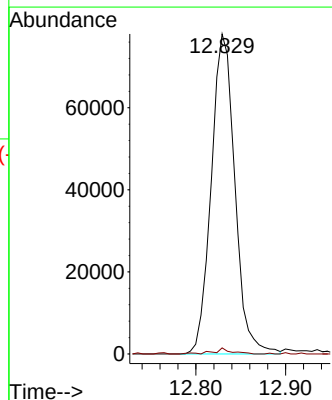
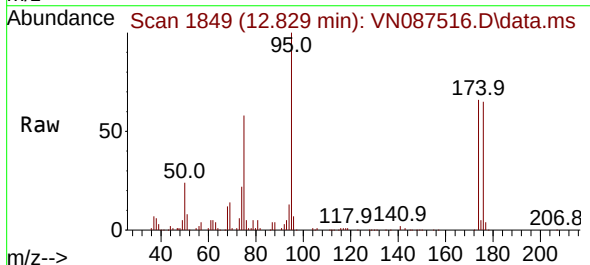
Instrument :
 MSVOA_N
 ClientSampleId :
 1060-FB080725

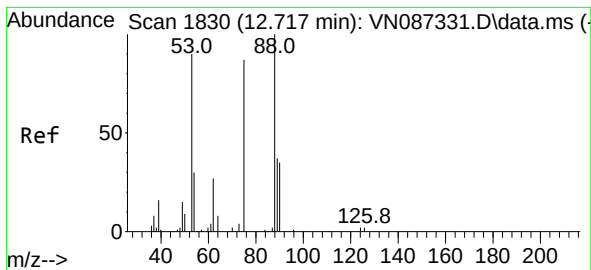
Tgt Ion:152 Resp: 228881
 Ion Ratio Lower Upper
 152 100
 115 66.6 31.1 93.5
 150 158.1 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 27.827 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087516.D
 Acq: 12 Aug 2025 15:51

Tgt Ion: 75 Resp: 142819
 Ion Ratio Lower Upper
 75 100
 77 1.4 94.5 283.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.138 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087516.D
 Acq: 12 Aug 2025 15:51

Instrument :
 MSVOA_N
 ClientSampleId :
 1060-FB080725

Tgt Ion: 75 Resp: 142819
 Ion Ratio Lower Upper
 75 100
 53 0.1 83.5 125.3#
 89 0.1 38.4 57.6#

