

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087413.D
 Acq On : 24 Jul 2025 13:07
 Operator : JC\MD
 Sample : Q2683-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 25 04:53:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

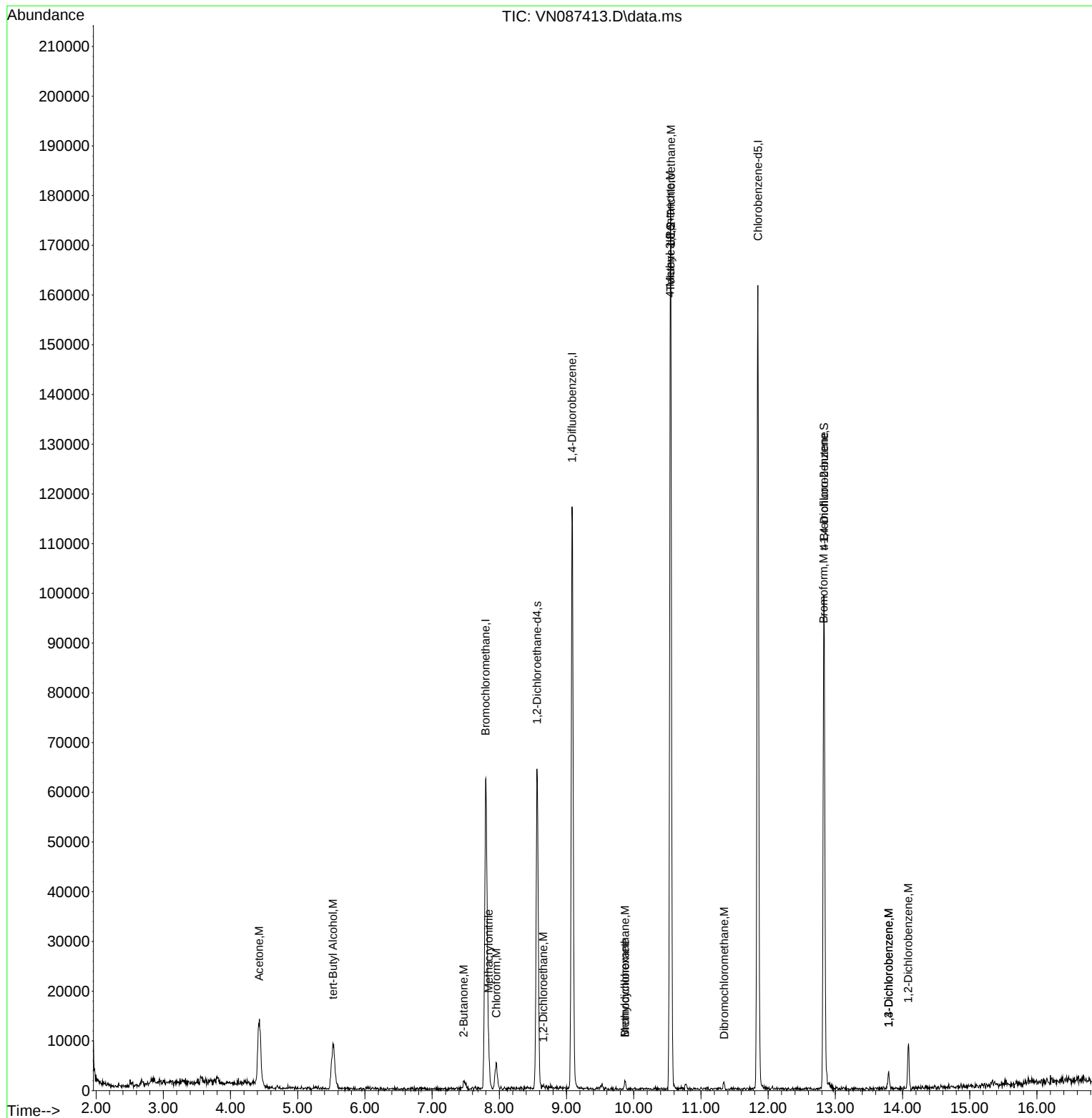
Internal Standards						
1) Bromochloromethane	7.794	128	22666	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	99147	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	92360	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	52332	27.995	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.333%
60) 4-Bromofluorobenzene	12.829	95	34799	22.584	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.267%
63) Toluene-d8	10.547	98	116152	27.654	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	92.167%
Target Compounds						
					Qvalue	
15) Acetone	4.424	58	4101	13.766	ug/l #	67
23) tert-Butyl Alcohol	5.524	59	17118	59.191	ug/l #	100
25) Chloroform	7.953	83	5227	1.816	ug/l #	75
30) 2-Butanone	7.471	43	1808	1.569	ug/l #	74
35) Methacrylonitrile	7.841	41	3649	3.012	ug/l #	45
36) 1,2-Dichloroethane	8.653	62	432	0.200	ug/l #	77
38) Methylcyclohexane	9.871	83	1260	0.705	ug/l #	15
41) Bromodichloromethane	9.871	83	1260	0.598	ug/l #	69
50) 1,1,2-Trichloroethane	10.553	97	4441	3.238	ug/l #	1
53) Dibromochloromethane	11.347	129	997	0.620	ug/l	66
56) Bromoform	12.823	173	432	0.378	ug/l #	1
58) 4-Methyl-2-Pentanone	10.541	43	777	0.344	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	20360	27.843	ug/l #	15
83) 1,3-Dichlorobenzene	13.794	146	1602	0.525	ug/l	96
84) 1,4-Dichlorobenzene	13.794	146	1602	0.532	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	4273	1.486	ug/l	99

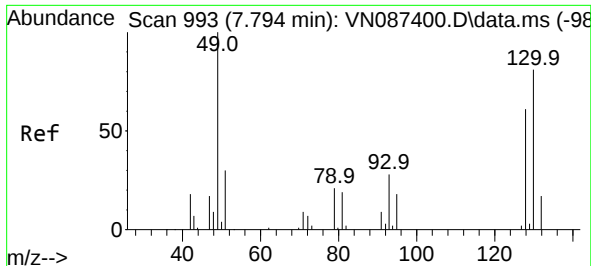
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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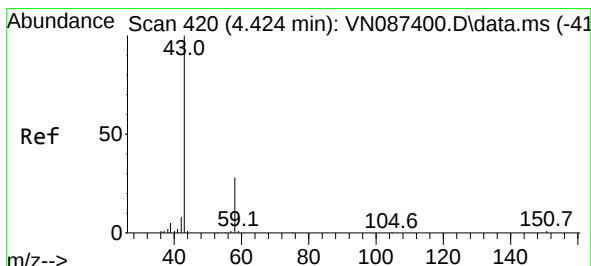
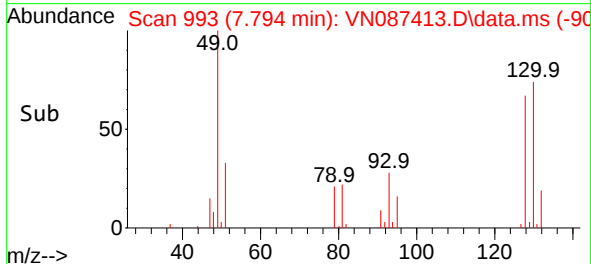
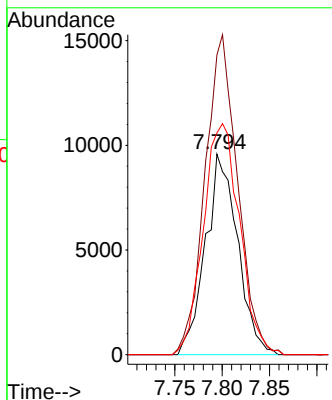
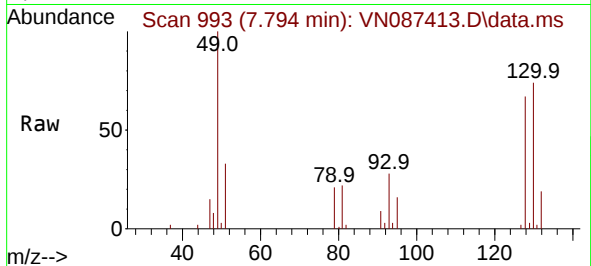




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

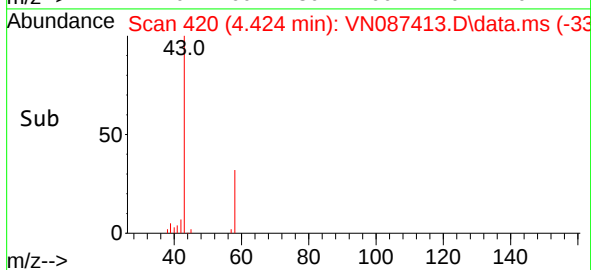
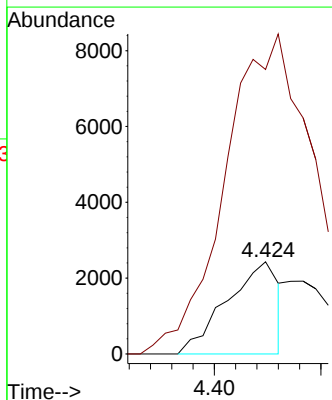
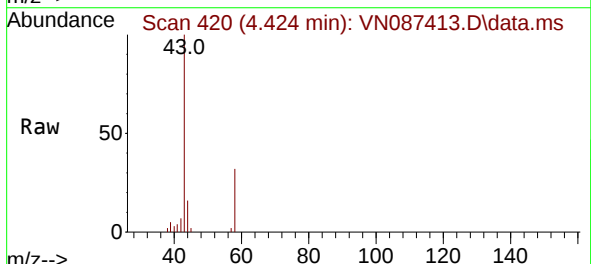
Instrument :
MSVOA_N
ClientSampleId :

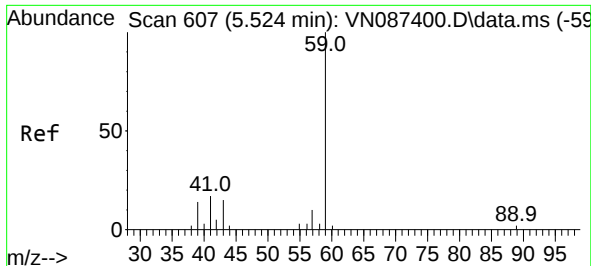
Tgt Ion:128 Resp: 22666
Ion Ratio Lower Upper
128 100
49 161.3 0.0 446.2
130 130.0 0.0 331.0



#15
Acetone
Concen: 13.766 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

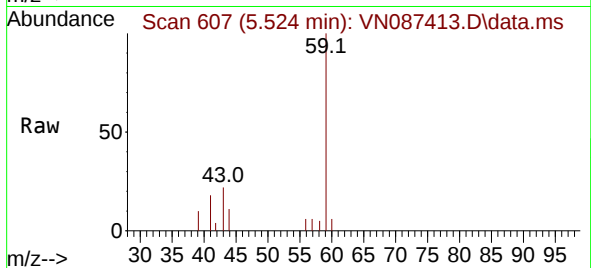
Tgt Ion: 58 Resp: 4101
Ion Ratio Lower Upper
58 100
43 282.7 283.4 425.0#



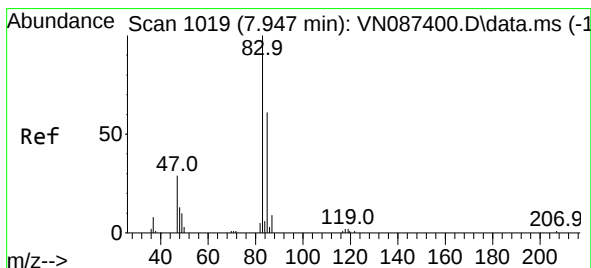
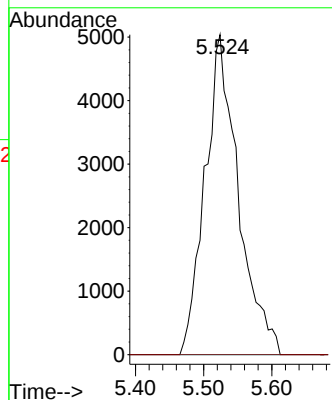
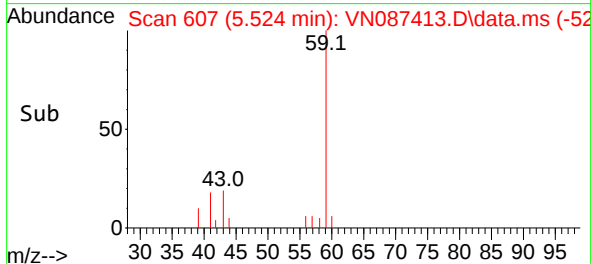


#23
tert-Butyl Alcohol
Concen: 59.191 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :

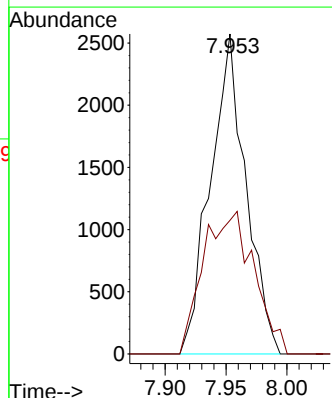
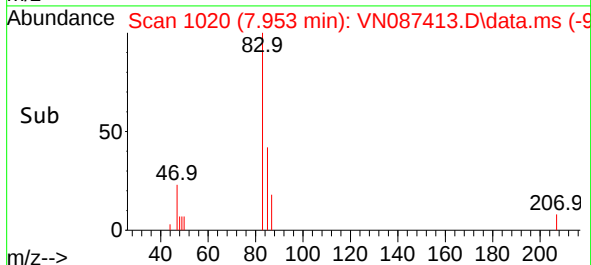
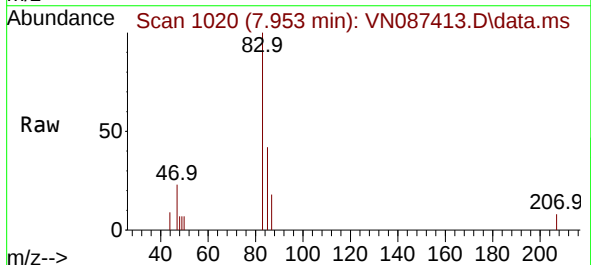


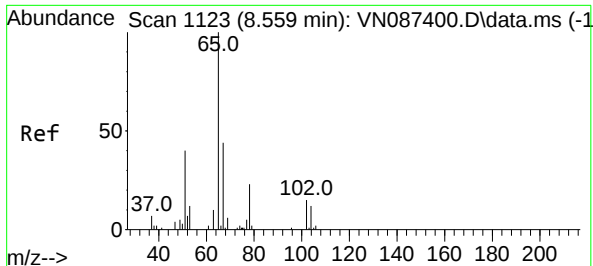
Tgt Ion: 59 Resp: 17118
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.816 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion: 83 Resp: 5227
Ion Ratio Lower Upper
83 100
85 41.7 48.6 73.0#





#27

1,2-Dichloroethane-d4

Concen: 27.995 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087413.D

Acq: 24 Jul 2025 13:07

Instrument :

MSVOA_N

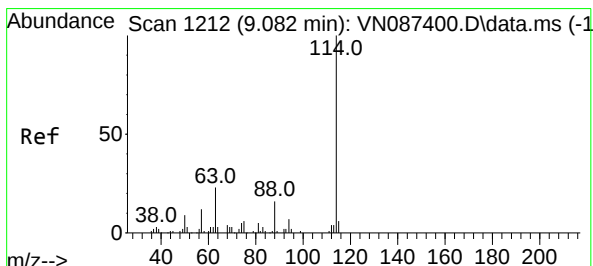
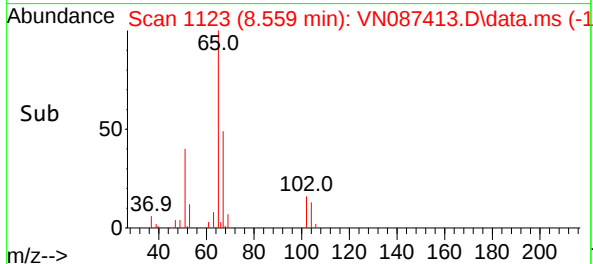
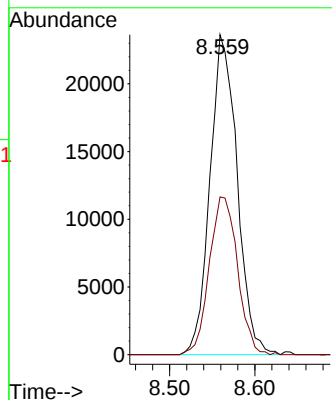
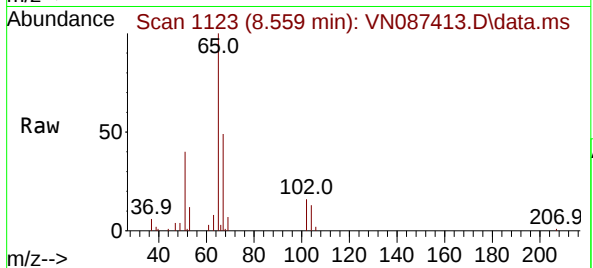
ClientSampleId :

Tgt Ion: 65 Resp: 52332

Ion Ratio Lower Upper

65 100

67 51.2 40.2 60.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087413.D

Acq: 24 Jul 2025 13:07

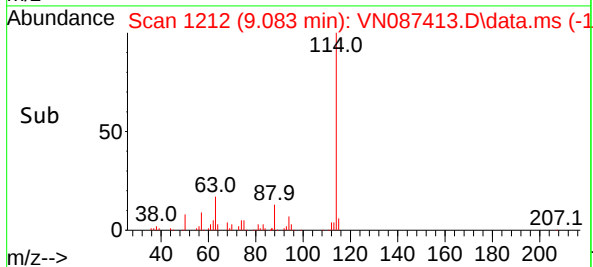
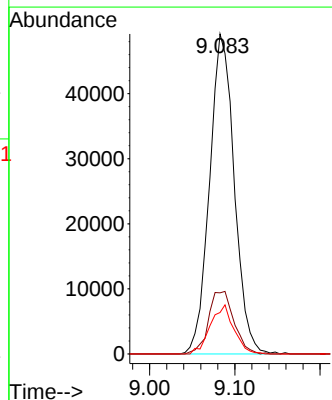
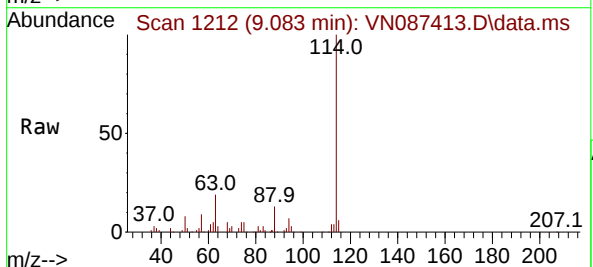
Tgt Ion: 114 Resp: 99147

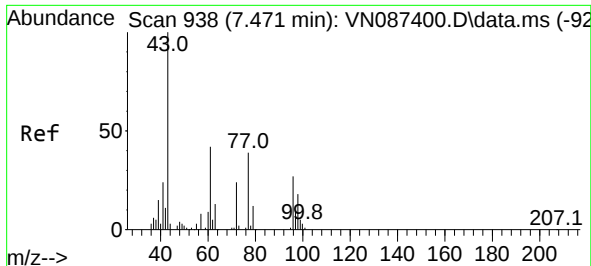
Ion Ratio Lower Upper

114 100

63 20.0 16.8 25.2

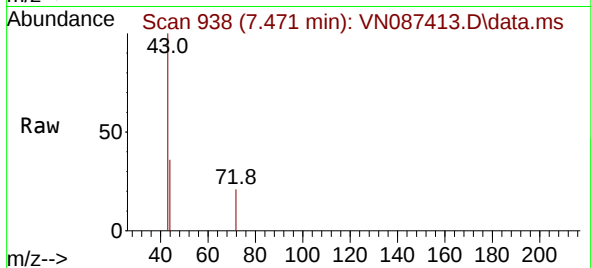
88 14.5 12.5 18.7



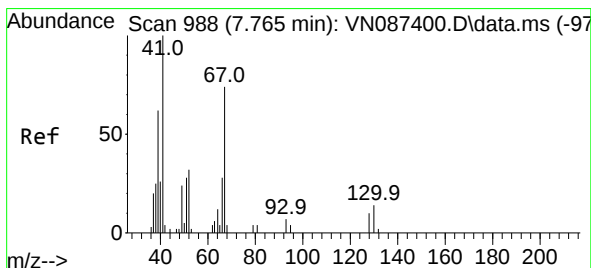
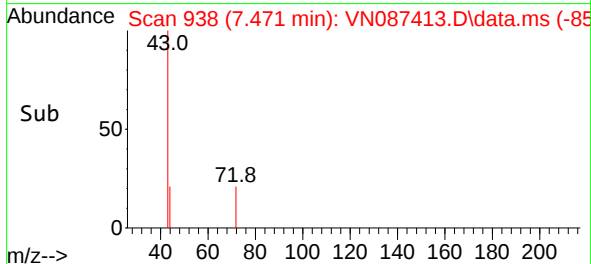
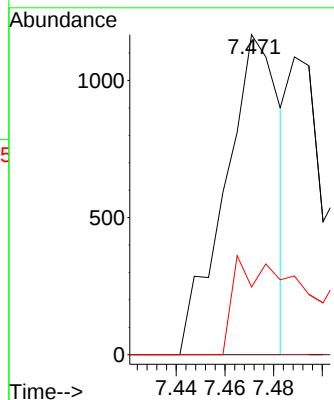


#30
2-Butanone
Concen: 1.569 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :

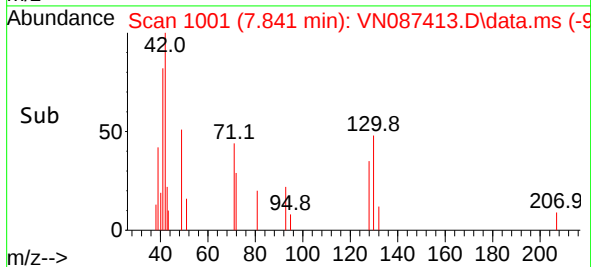
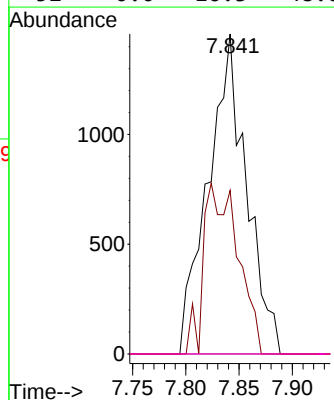
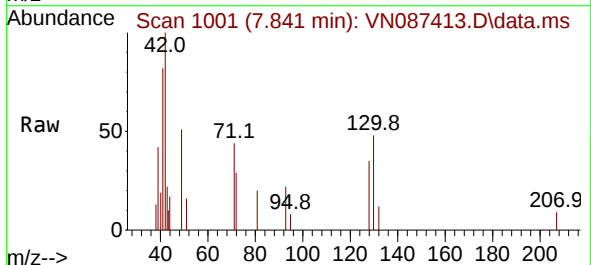


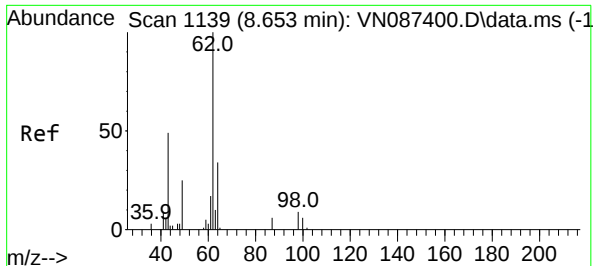
Tgt Ion: 43 Resp: 1808
Ion Ratio Lower Upper
43 100
57 0.0 6.6 9.8#
72 11.9 20.6 30.8#



#35
Methacrylonitrile
Concen: 3.012 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.077 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion: 41 Resp: 3649
Ion Ratio Lower Upper
41 100
39 51.1 31.0 93.0
67 0.0 36.8 110.3#
52 0.0 16.3 48.8#





#36

1,2-Dichloroethane

Concen: 0.200 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN087413.D

Acq: 24 Jul 2025 13:07

Instrument :

MSVOA_N

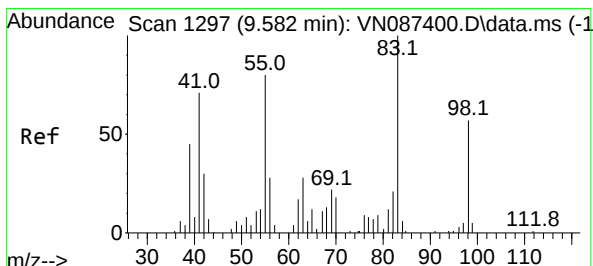
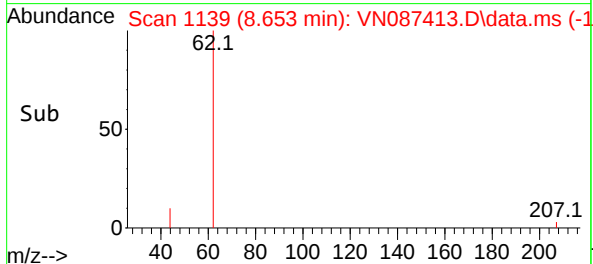
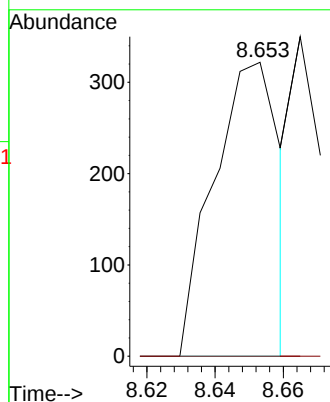
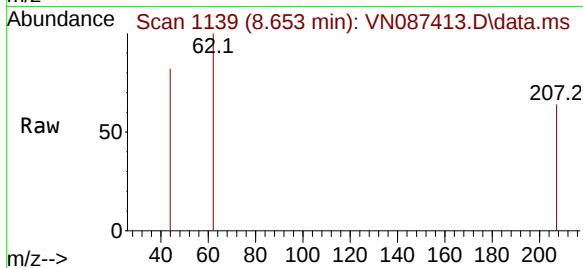
ClientSampleId :

Tgt Ion: 62 Resp: 432

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#38

Methylcyclohexane

Concen: 0.705 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. 0.288 min

Lab File: VN087413.D

Acq: 24 Jul 2025 13:07

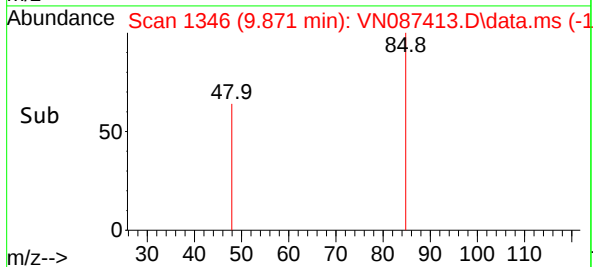
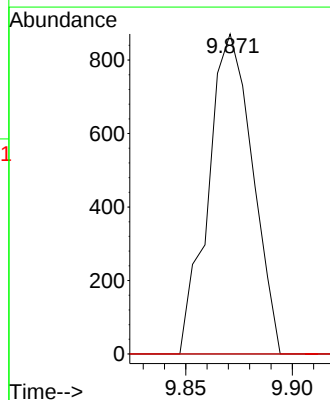
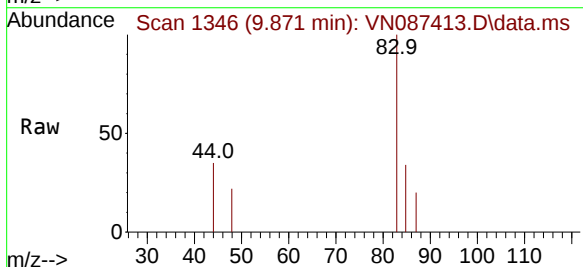
Tgt Ion: 83 Resp: 1260

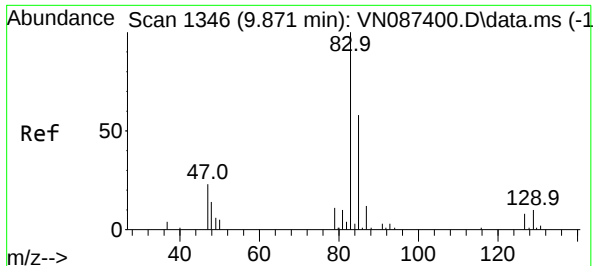
Ion Ratio Lower Upper

83 100

55 0.0 40.9 122.8#

98 0.0 25.6 76.6#

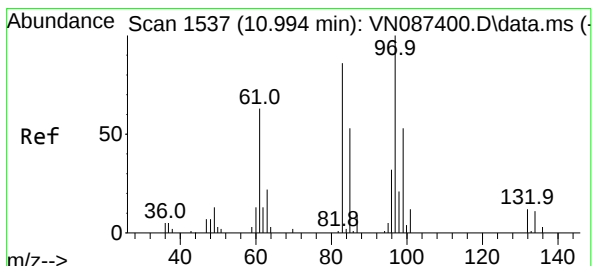
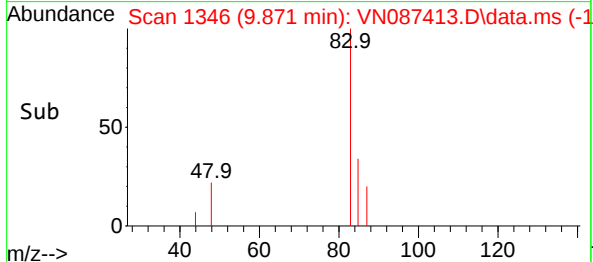
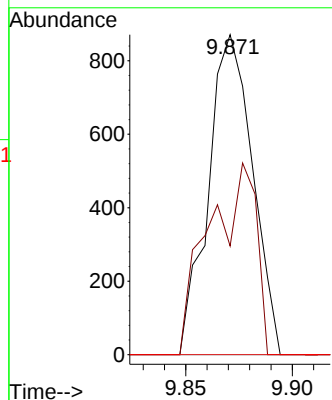
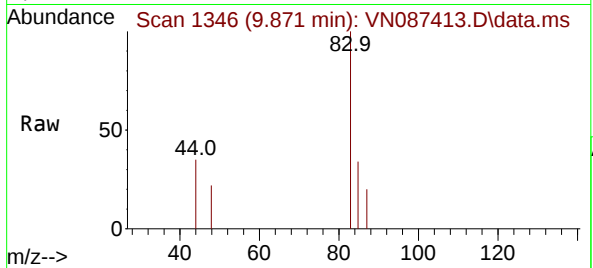




#41
Bromodichloromethane
Concen: 0.598 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

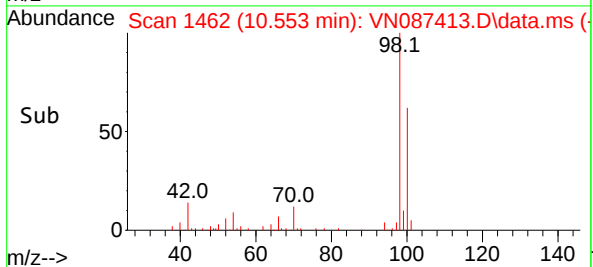
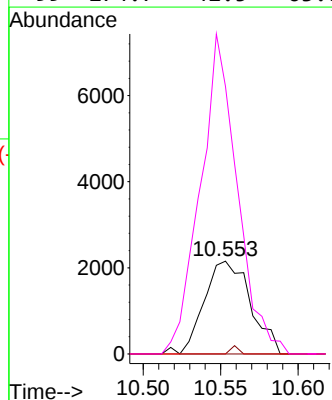
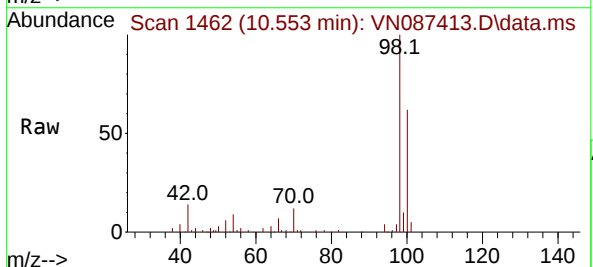
Instrument :
MSVOA_N
ClientSampleId :

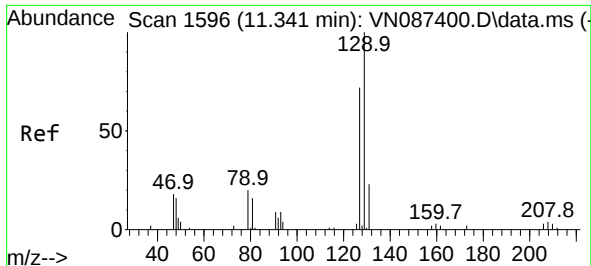
Tgt Ion: 83 Resp: 1260
Ion Ratio Lower Upper
83 100
85 34.0 46.2 69.2#
127 0.0 6.1 9.1#



#50
1,1,2-Trichloroethane
Concen: 3.238 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion: 97 Resp: 4441
Ion Ratio Lower Upper
97 100
83 0.0 68.9 103.3#
85 0.0 42.2 63.2#
99 274.7 42.5 63.7#

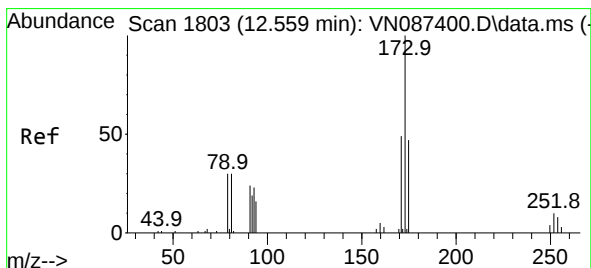
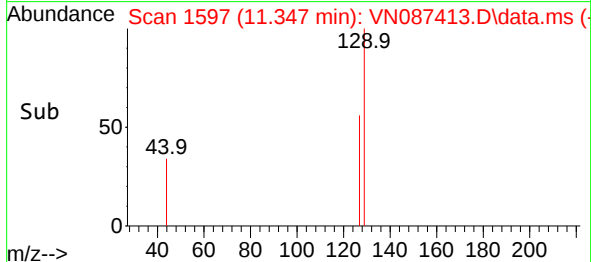
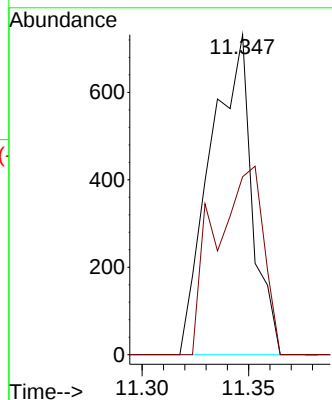
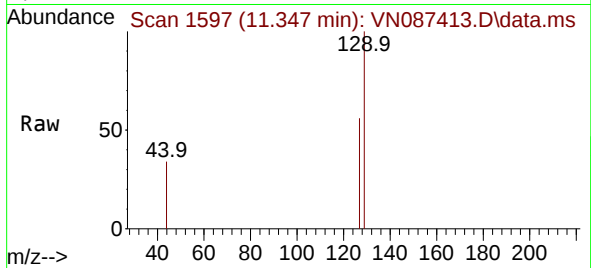




#53
Dibromochloromethane
Concen: 0.620 ug/l
RT: 11.347 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

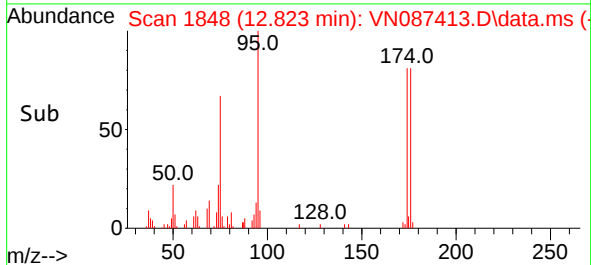
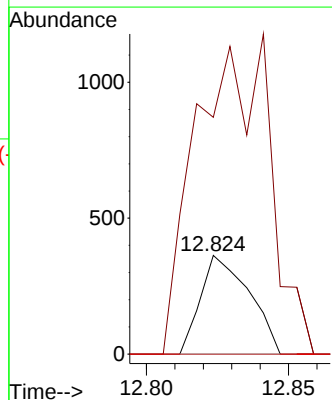
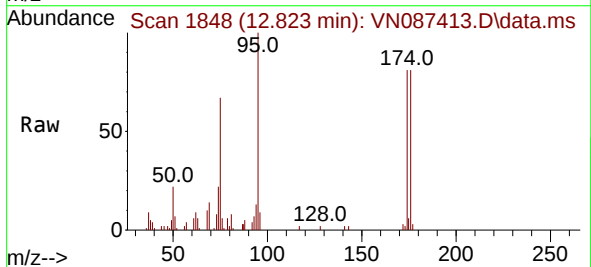
Instrument :
MSVOA_N
ClientSampleId :

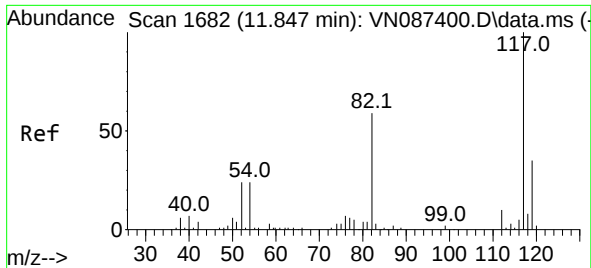
Tgt Ion:129 Resp: 997
Ion Ratio Lower Upper
129 100
127 47.7 38.7 116.1



#56
Bromoform
Concen: 0.378 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion:173 Resp: 432
Ion Ratio Lower Upper
173 100
175 346.8 38.4 57.6#
254 0.0 6.7 10.1#

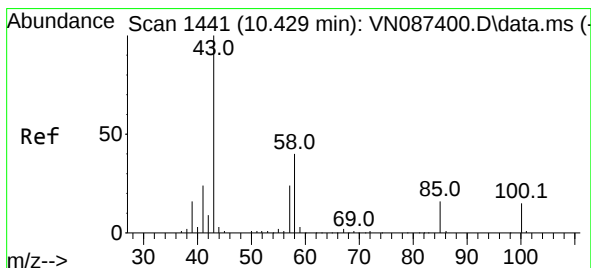
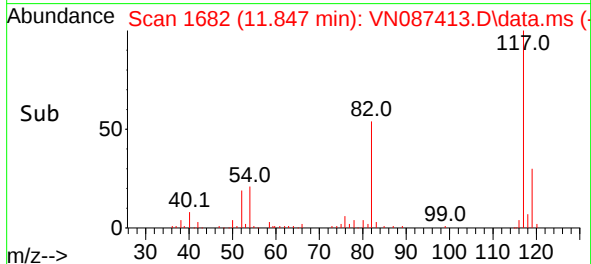
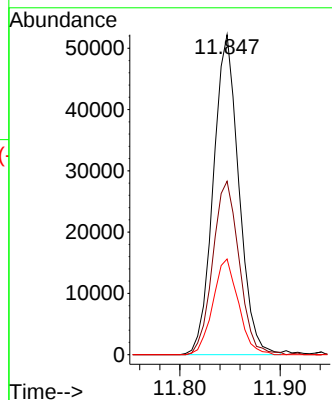
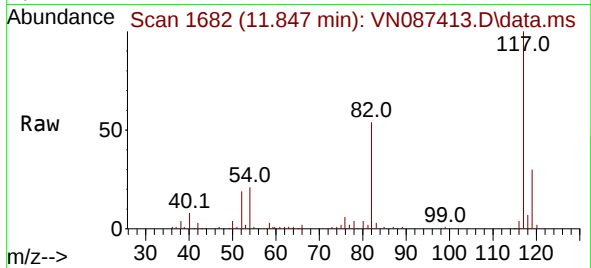




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

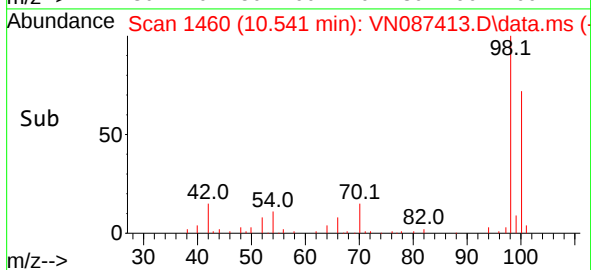
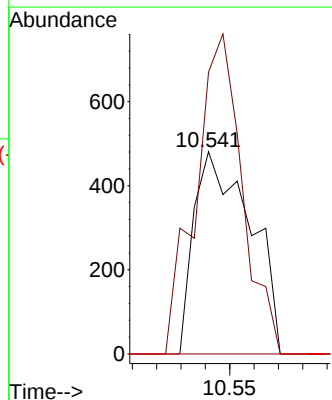
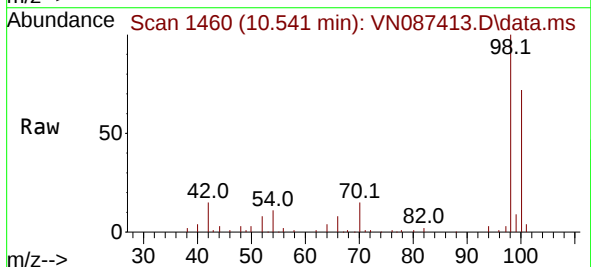
Instrument :
MSVOA_N
ClientSampleId :

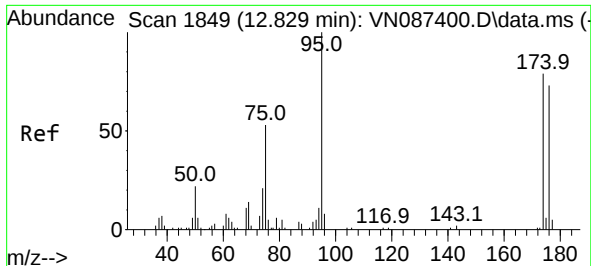
Tgt Ion:117 Resp: 92360
Ion Ratio Lower Upper
117 100
82 55.8 44.1 66.1
119 29.9 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.344 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. 0.112 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion: 43 Resp: 777
Ion Ratio Lower Upper
43 100
58 130.1 29.5 44.3#
85 0.0 13.3 19.9#

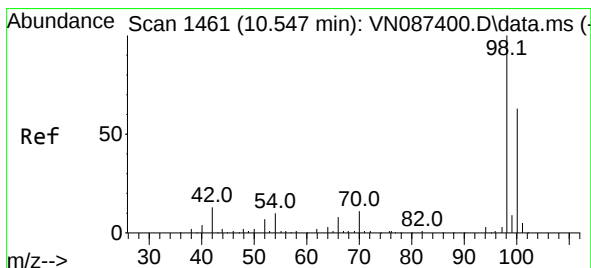
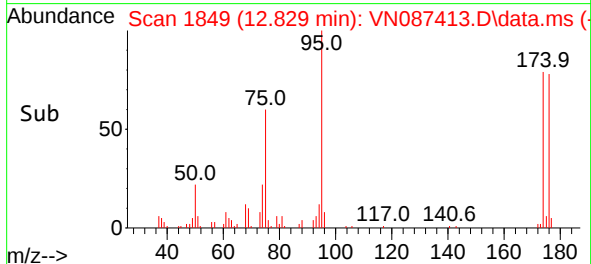
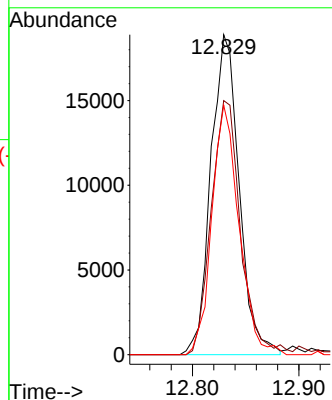
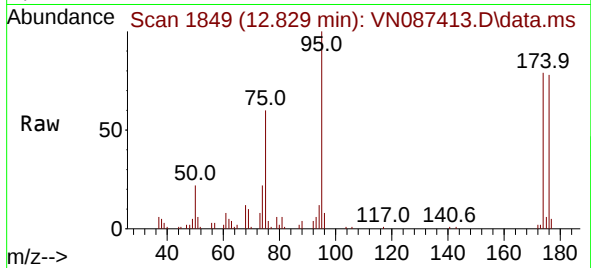




#60
4-Bromofluorobenzene
Concen: 22.584 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

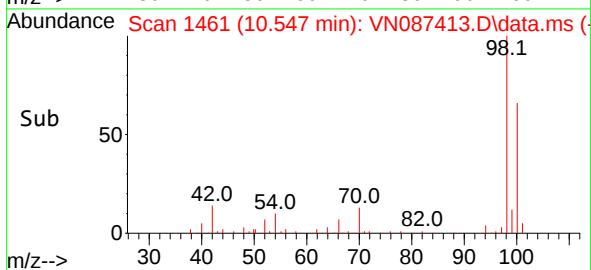
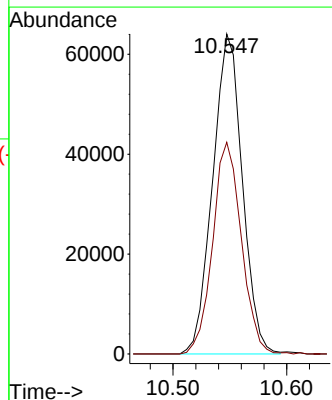
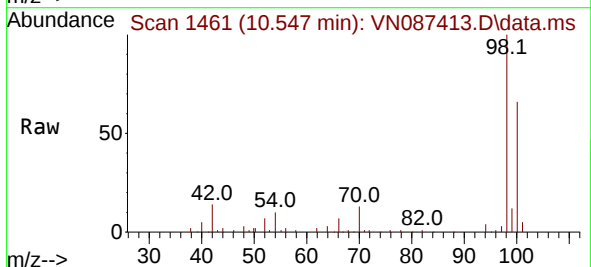
Instrument :
MSVOA_N
ClientSampleId :

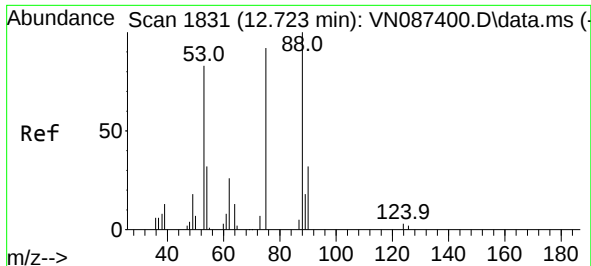
Tgt Ion: 95 Resp: 34799
Ion Ratio Lower Upper
95 100
174 81.2 62.1 93.1
176 74.5 57.9 86.9



#63
Toluene-d8
Concen: 27.654 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

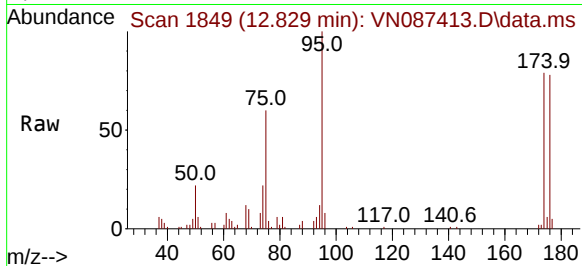
Tgt Ion: 98 Resp: 116152
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



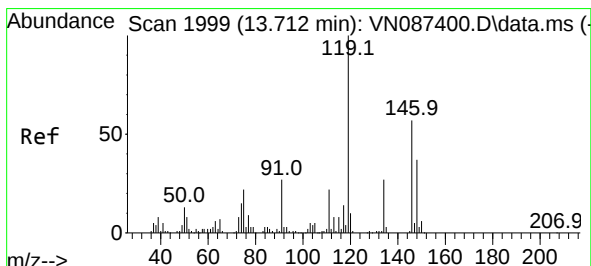
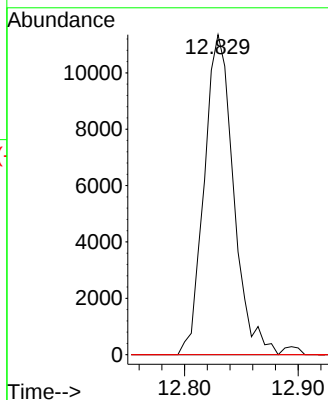
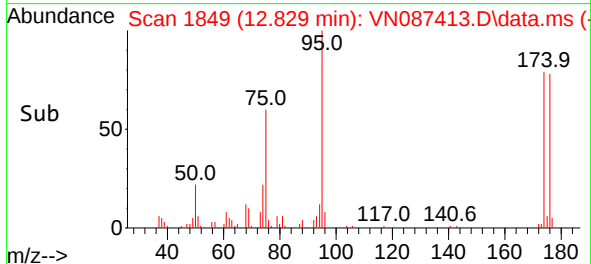


#77
t-1,4-Dichloro-2-butene
Concen: 27.843 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

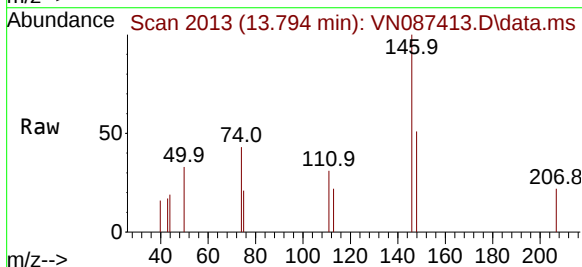
Instrument :
MSVOA_N
ClientSampleId :



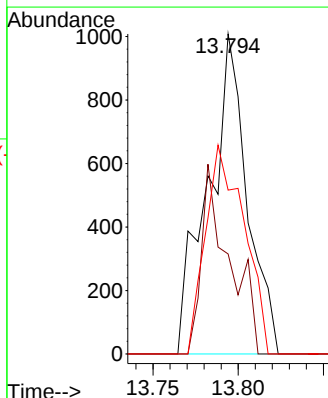
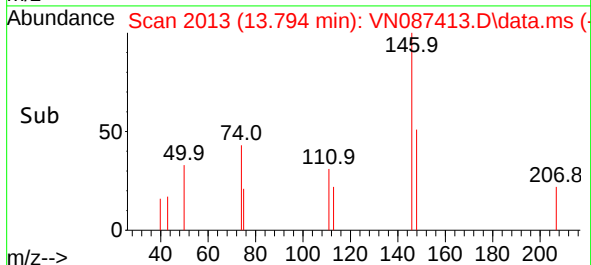
Tgt Ion: 75 Resp: 20360
Ion Ratio Lower Upper
75 100
53 0.0 44.0 131.8#
89 0.0 17.0 50.9#

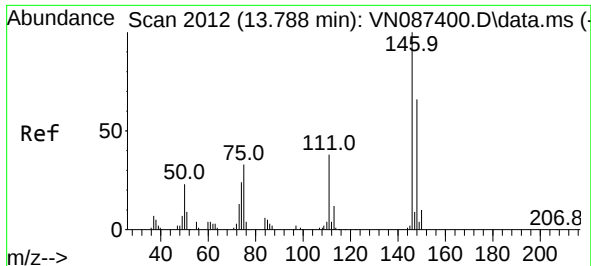


#83
1,3-Dichlorobenzene
Concen: 0.525 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.082 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07



Tgt Ion: 146 Resp: 1602
Ion Ratio Lower Upper
146 100
111 35.5 20.2 60.6
148 64.9 31.7 95.1

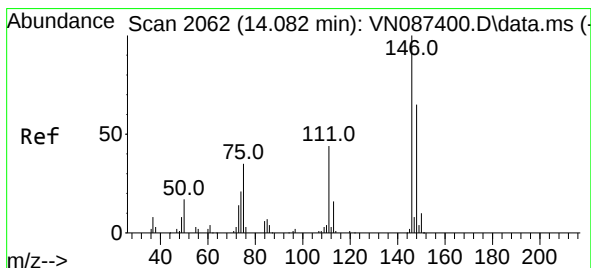
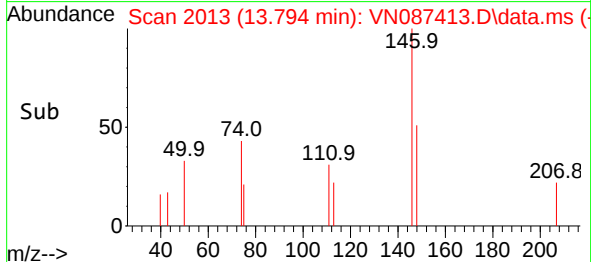
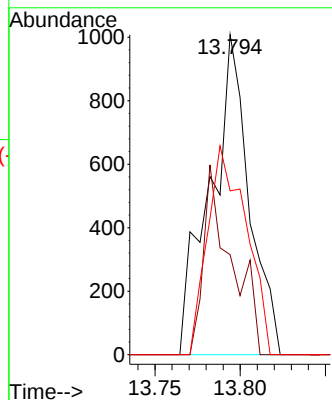
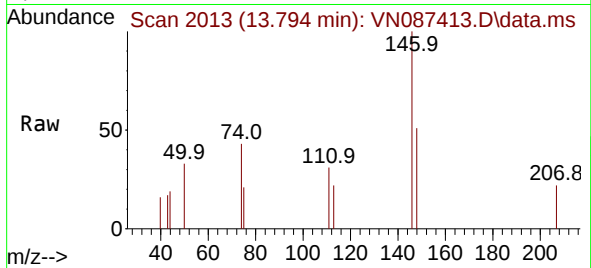




#84
1,4-Dichlorobenzene
Concen: 0.532 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:146 Resp: 1602
Ion Ratio Lower Upper
146 100
111 35.5 19.4 58.1
148 64.9 32.4 97.2



#87
1,2-Dichlorobenzene
Concen: 1.486 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VN087413.D
Acq: 24 Jul 2025 13:07

Tgt Ion:146 Resp: 4273
Ion Ratio Lower Upper
146 100
111 41.8 21.9 65.8
148 62.3 31.2 93.6

