

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087446.D
 Acq On : 30 Jul 2025 15:34
 Operator : JC\MD
 Sample : Q2730-02DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave(july)DL

Quant Time: Jul 31 01:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

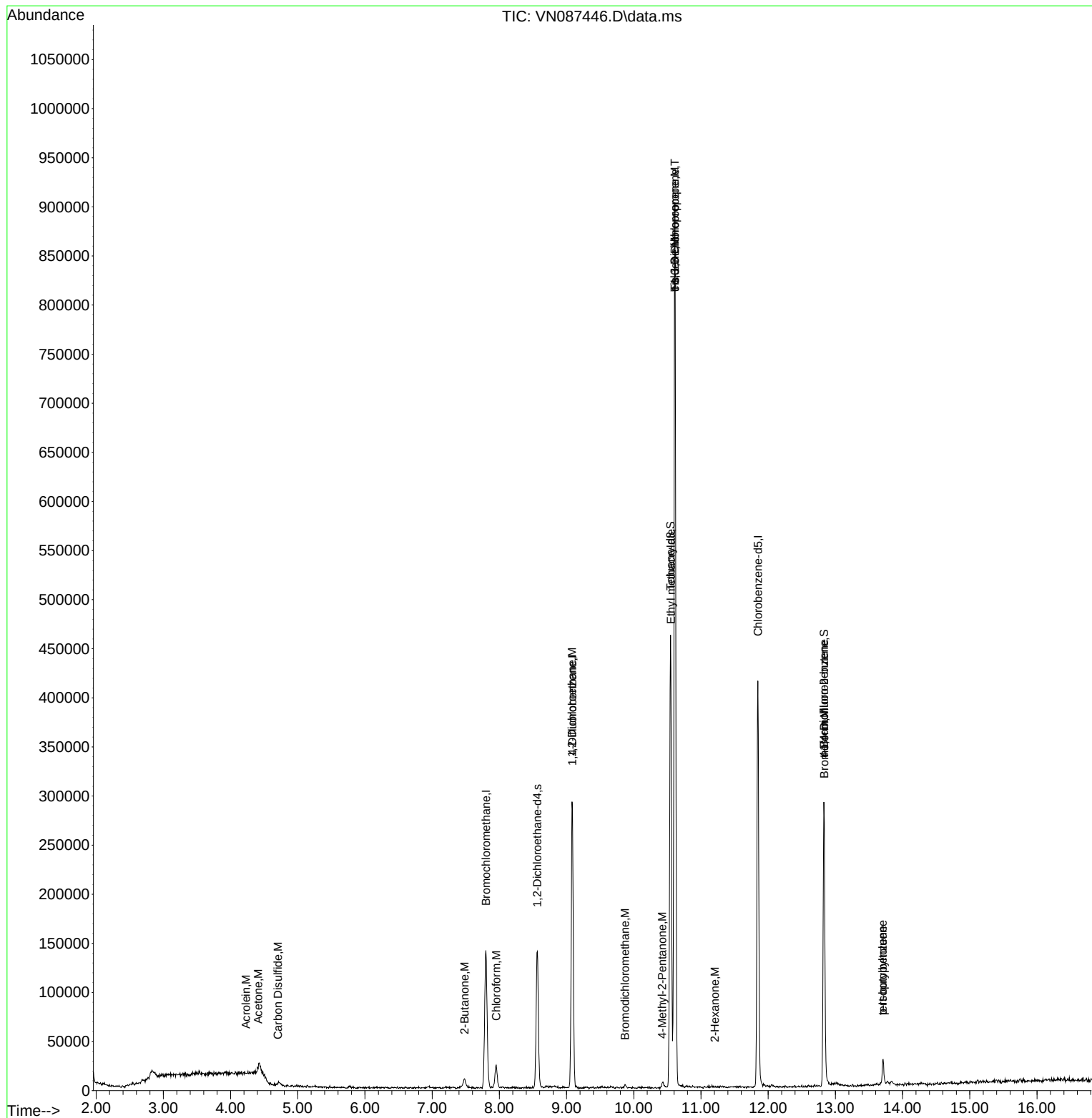
Internal Standards						
1) Bromochloromethane	7.800	128	44916	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	244671	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	222532	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	109845	31.981	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.600%	
60) 4-Bromofluorobenzene	12.829	95	100910	27.614	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 92.033%	
63) Toluene-d8	10.547	98	311506	30.481	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.600%	
Target Compounds						
					Qvalue	
13) Acrolein	4.230	56	415	1.215	ug/l	92
15) Acetone	4.412	58	1820	4.322	ug/l	99
16) Carbon Disulfide	4.706	76	2193	0.321	ug/l #	77
25) Chloroform	7.953	83	21078	4.044	ug/l	86
30) 2-Butanone	7.482	43	18039	7.168	ug/l #	90
36) 1,2-Dichloroethane	9.082	62	10574	2.797	ug/l #	100
41) Bromodichloromethane	9.871	83	2186	0.535	ug/l #	70
48) t-1,3-Dichloropropene	10.612	75	4988	1.085	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	4988	1.033	ug/l #	1
51) Ethyl methacrylate	10.553	69	1576	0.322	ug/l	80
56) Bromoform	12.835	173	527	0.242	ug/l #	1
58) 4-Methyl-2-Pentanone	10.423	43	1902	0.379	ug/l #	75
59) 2-Hexanone	11.206	43	851	0.245	ug/l #	44
62) Toluene	10.612	91	661108	52.641	ug/l	100
77) t-1,4-Dichloro-2-butene	12.829	75	57189	33.630	ug/l #	14
79) tert-butylbenzene	13.706	119	14983	1.620	ug/l	64
82) p-Isopropyltoluene	13.706	119	14983	1.344	ug/l	95

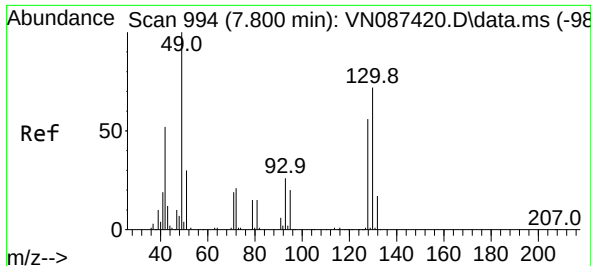
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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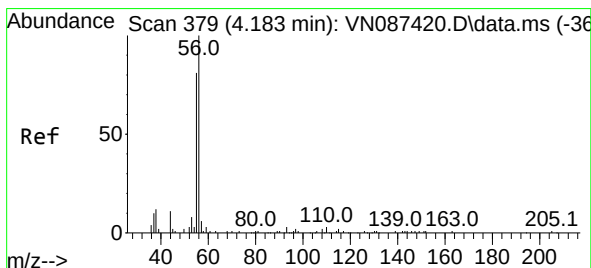
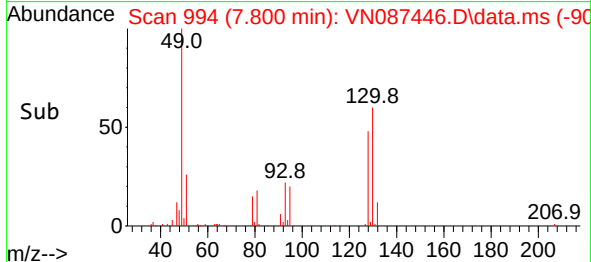
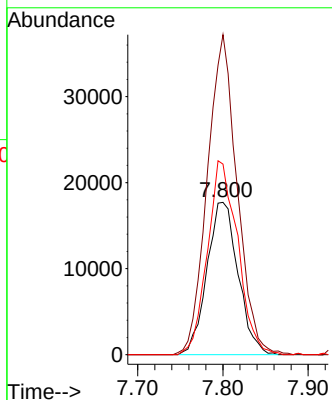
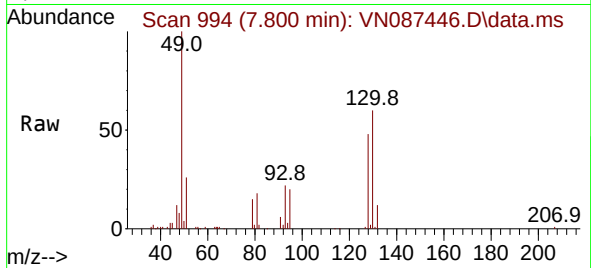




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

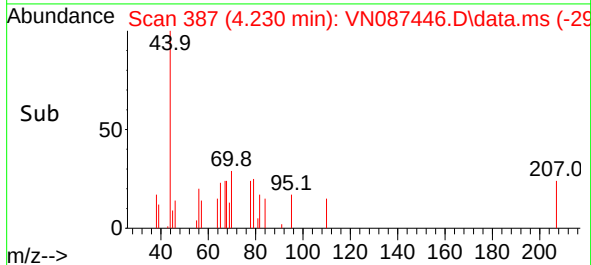
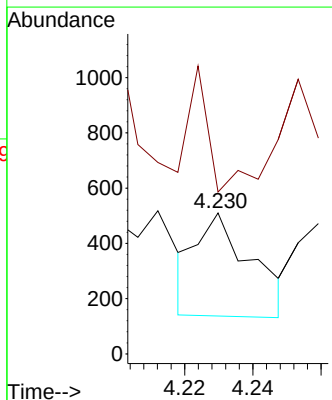
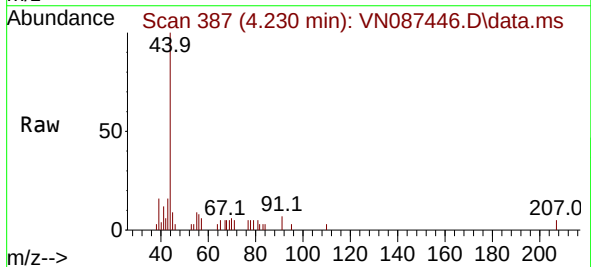
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

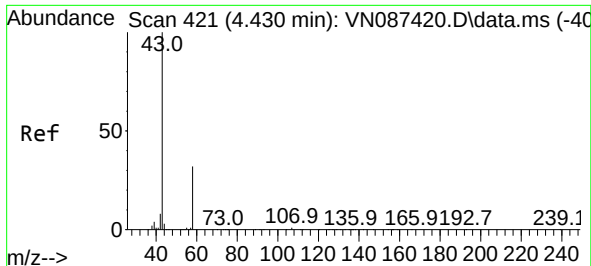
Tgt Ion	Ratio	Lower	Upper
128	100		
49	201.1	0.0	457.3
130	123.8	0.0	316.0



#13
Acrolein
Concen: 1.215 ug/l
RT: 4.230 min Scan# 387
Delta R.T. 0.047 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion	Ratio	Lower	Upper
56	100		
55	66.5	58.9	88.3

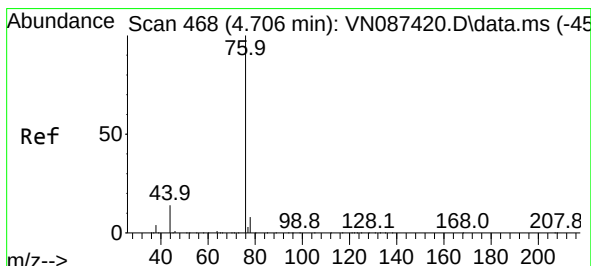
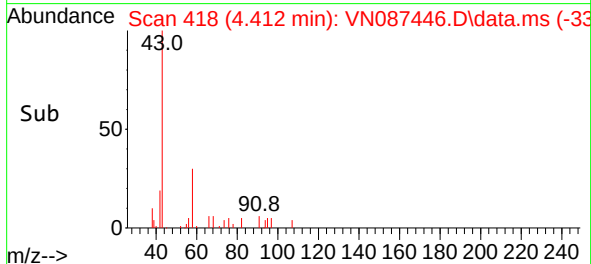
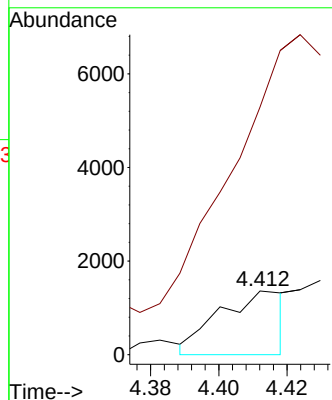
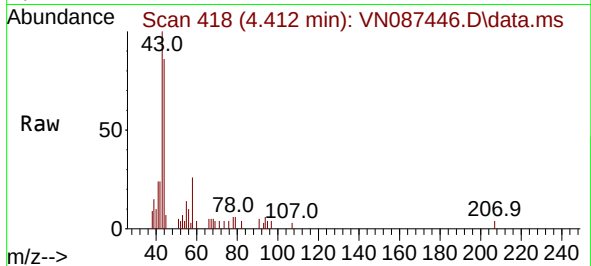




#15
Acetone
Concen: 4.322 ug/l
RT: 4.412 min Scan# 418
Delta R.T. -0.018 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

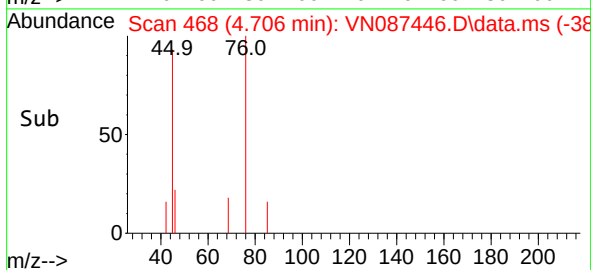
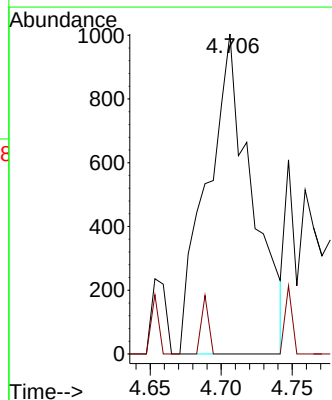
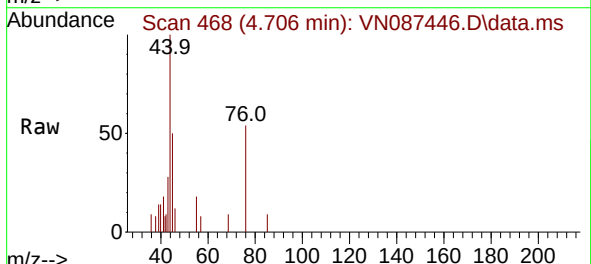
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

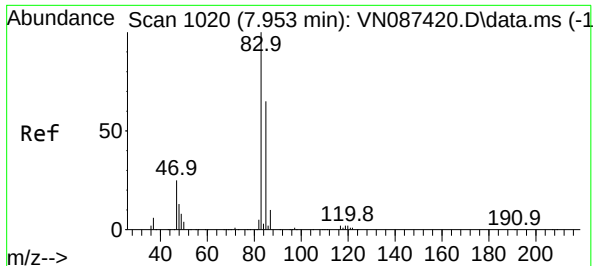
Tgt Ion: 58 Resp: 1820
Ion Ratio Lower Upper
58 100
43 312.4 248.4 372.6



#16
Carbon Disulfide
Concen: 0.321 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 76 Resp: 2193
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#

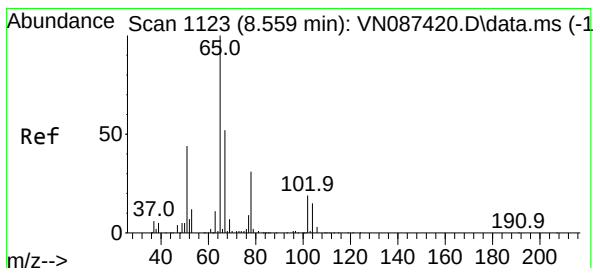
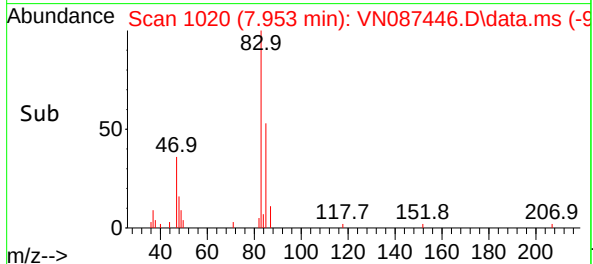
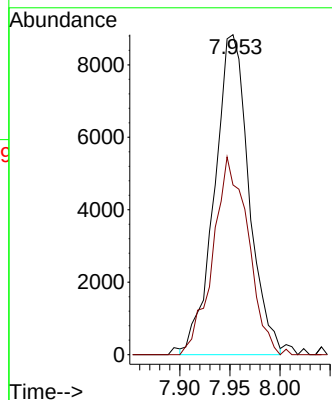
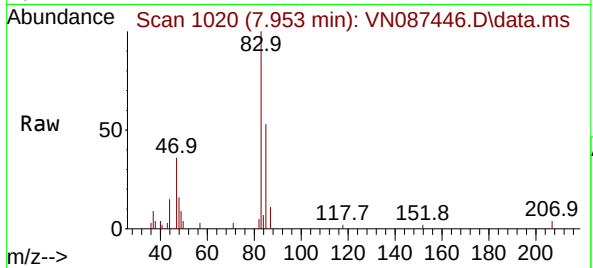




#25
Chloroform
Concen: 4.044 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

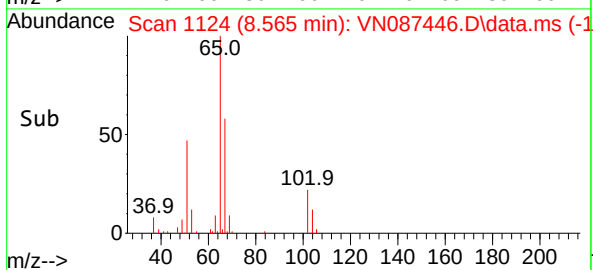
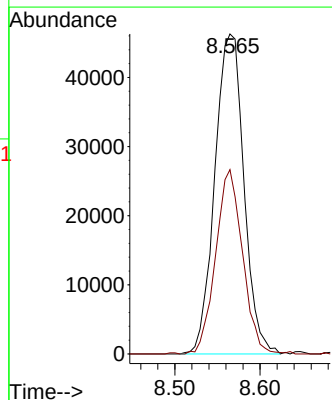
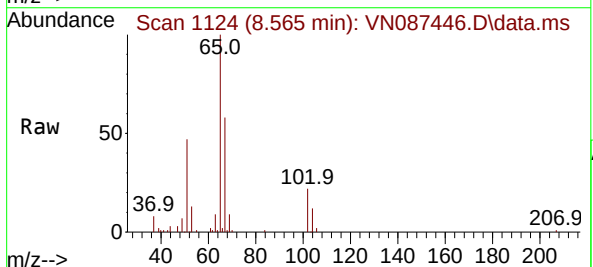
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

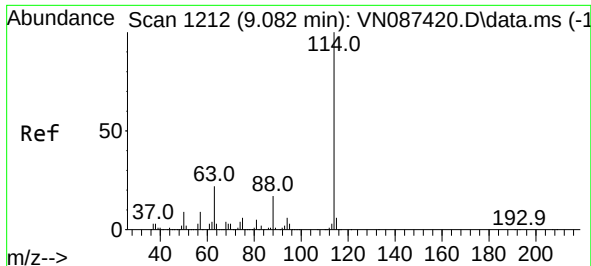
Tgt Ion: 83 Resp: 21078
Ion Ratio Lower Upper
83 100
85 54.0 52.0 78.0



#27
1,2-Dichloroethane-d4
Concen: 31.981 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 65 Resp: 109845
Ion Ratio Lower Upper
65 100
67 53.2 42.3 63.5





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.088 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(july)DL

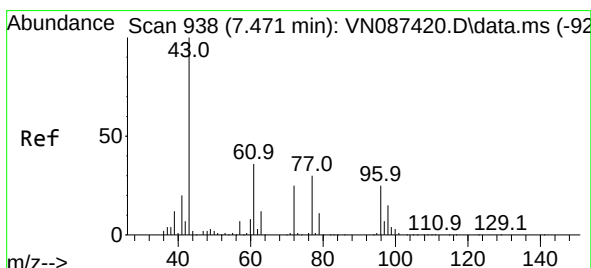
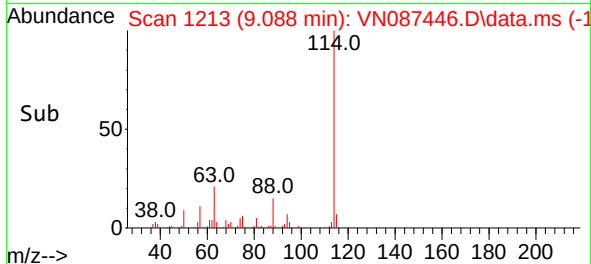
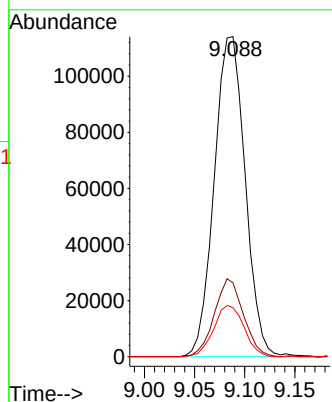
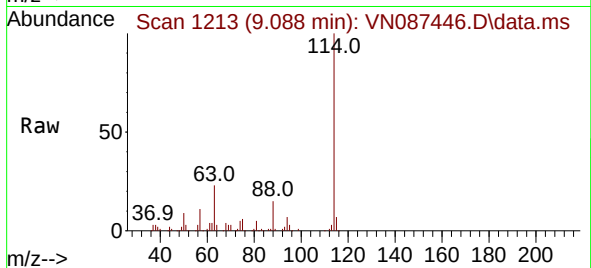
Tgt Ion:114 Resp: 244671

Ion Ratio Lower Upper

114 100

63 22.9 17.8 26.6

88 15.7 13.0 19.4



#30

2-Butanone

Concen: 7.168 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

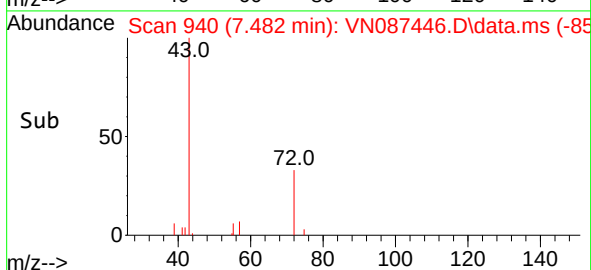
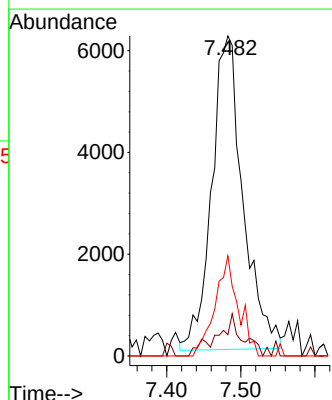
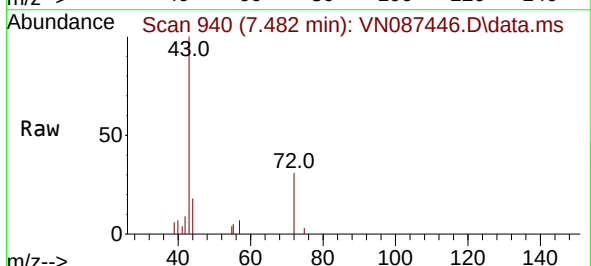
Tgt Ion: 43 Resp: 18039

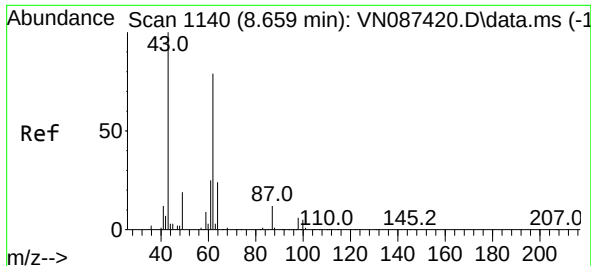
Ion Ratio Lower Upper

43 100

57 3.6 6.0 9.0#

72 20.7 20.3 30.5





#36

1,2-Dichloroethane

Concen: 2.797 ug/l

RT: 9.082 min Scan# 1140

Delta R.T. 0.423 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

Instrument :

MSVOA_N

ClientSampleId :

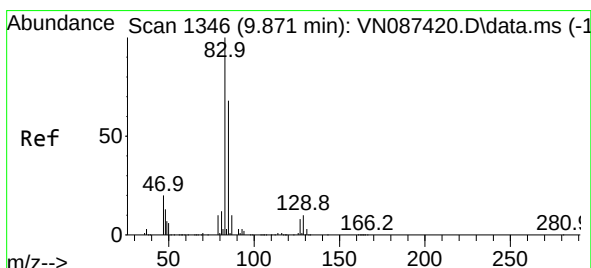
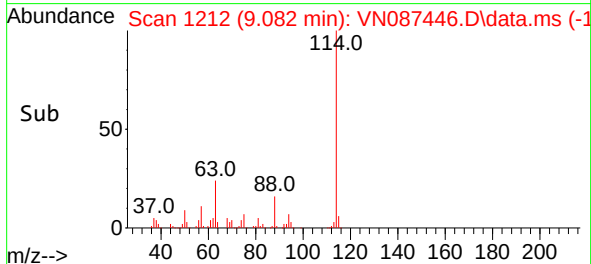
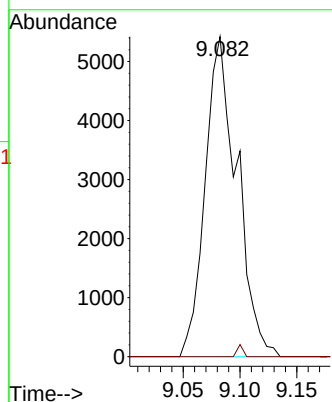
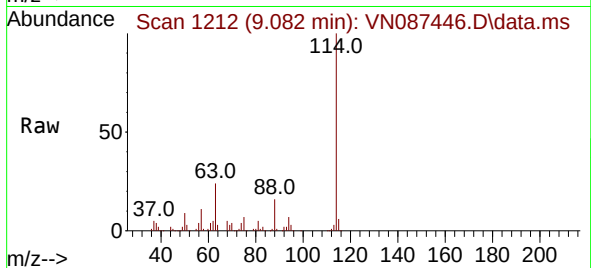
002 35th Ave(july)DL

Tgt Ion: 62 Resp: 10574

Ion Ratio Lower Upper

62 100

98 0.0 0.2 0.2#



#41

Bromodichloromethane

Concen: 0.535 ug/l

RT: 9.871 min Scan# 1346

Delta R.T. -0.000 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

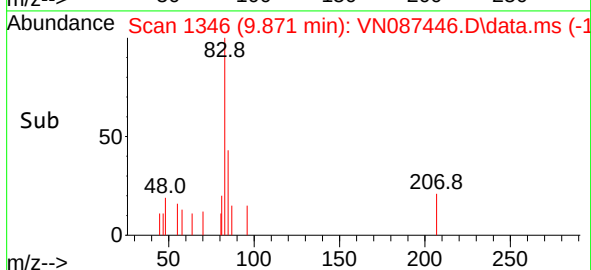
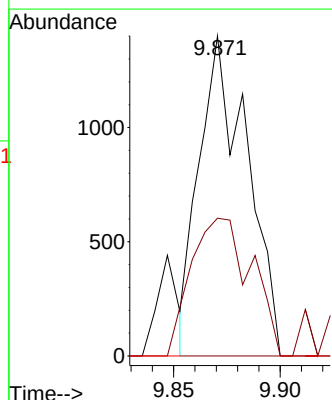
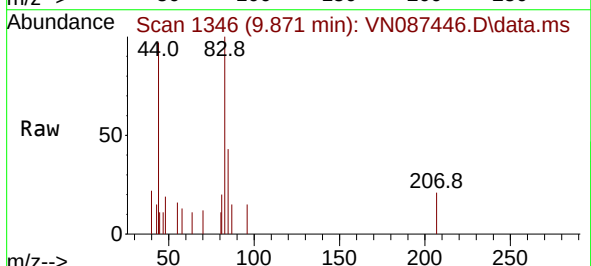
Tgt Ion: 83 Resp: 2186

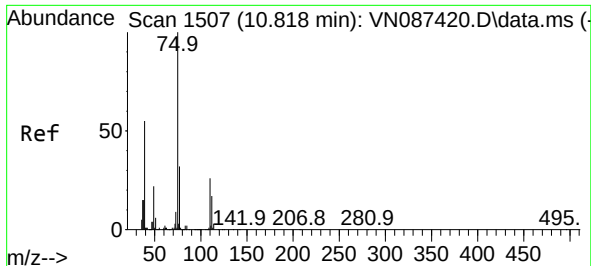
Ion Ratio Lower Upper

83 100

85 43.0 54.5 81.7#

127 0.0 6.6 10.0#

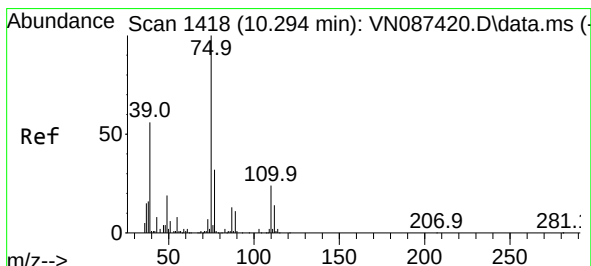
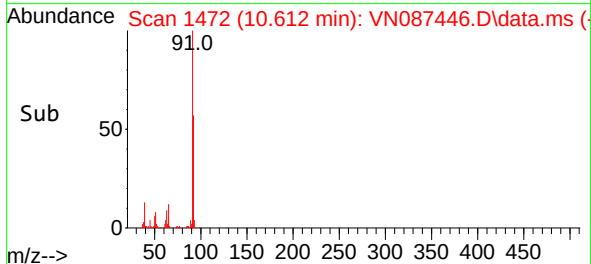
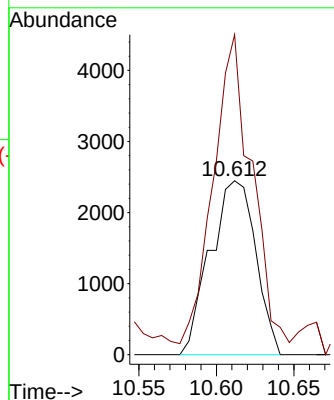
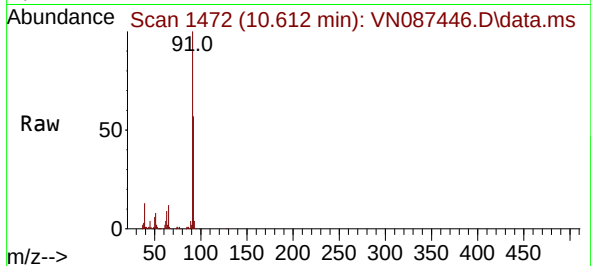




#48
t-1,3-Dichloropropene
Concen: 1.085 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.206 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

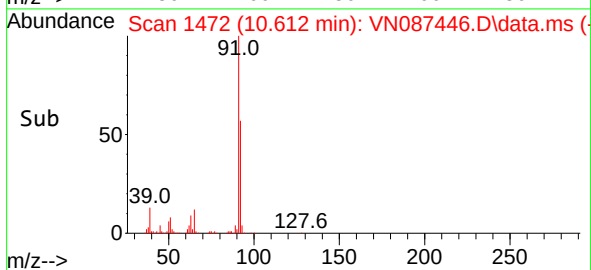
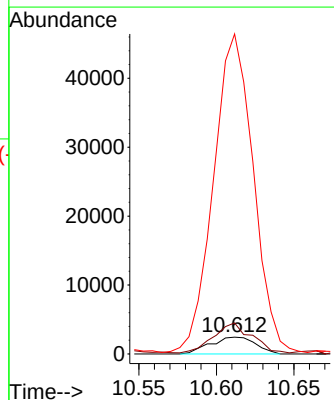
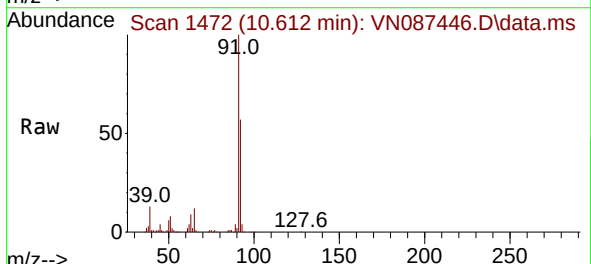
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

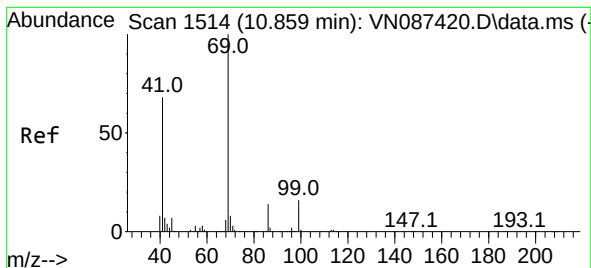
Tgt Ion: 75 Resp: 4988
Ion Ratio Lower Upper
75 100
77 177.6 25.4 38.2#



#49
cis-1,3-Dichloropropene
Concen: 1.033 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.318 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 75 Resp: 4988
Ion Ratio Lower Upper
75 100
77 177.6 26.1 39.1#
39 1858.7 45.0 67.4#





#51

Ethyl methacrylate

Concen: 0.322 ug/l

RT: 10.553 min Scan# 1462

Delta R.T. -0.306 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(july)DL

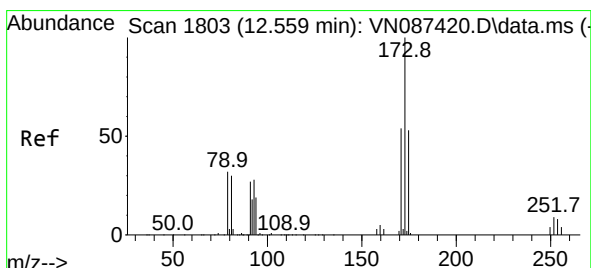
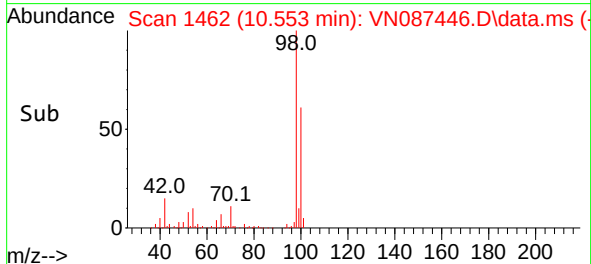
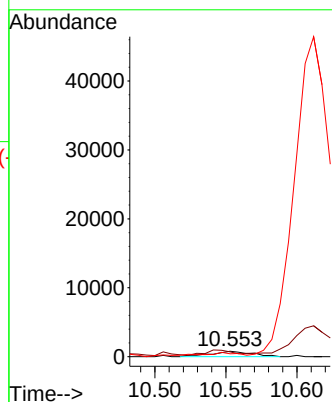
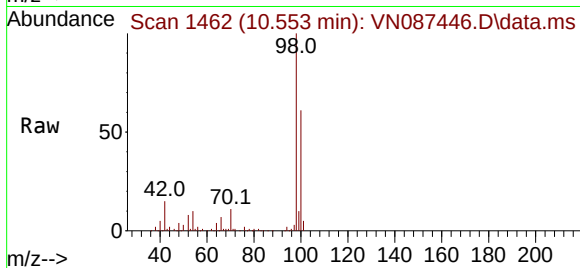
Tgt Ion: 69 Resp: 1576

Ion Ratio Lower Upper

69 100

41 53.6 33.9 101.6

39 26.2 20.3 60.9



#56

Bromoform

Concen: 0.242 ug/l

RT: 12.835 min Scan# 1850

Delta R.T. 0.276 min

Lab File: VN087446.D

Acq: 30 Jul 2025 15:34

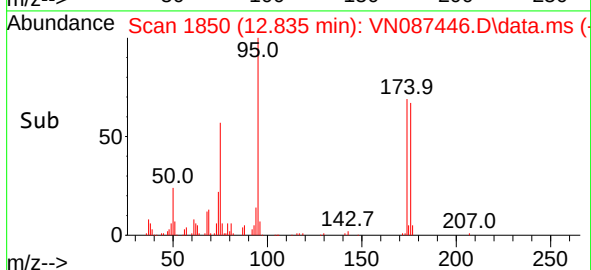
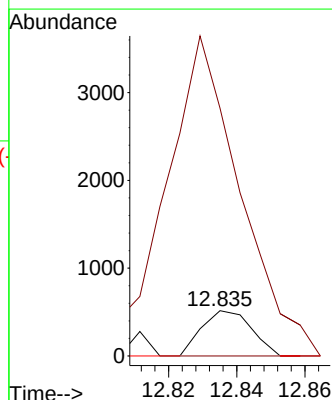
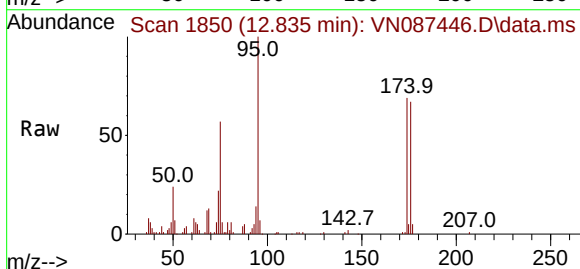
Tgt Ion:173 Resp: 527

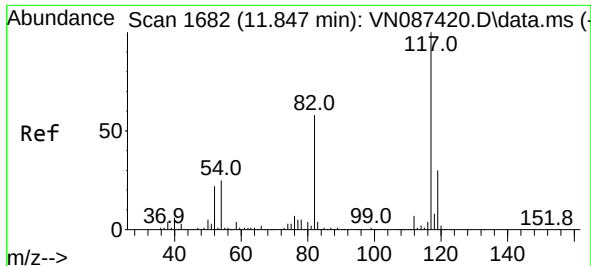
Ion Ratio Lower Upper

173 100

175 1049.3 38.4 57.6#

254 0.0 6.4 9.6#

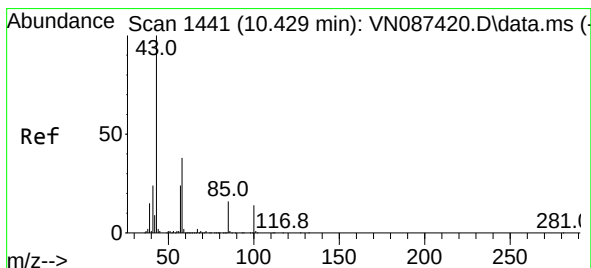
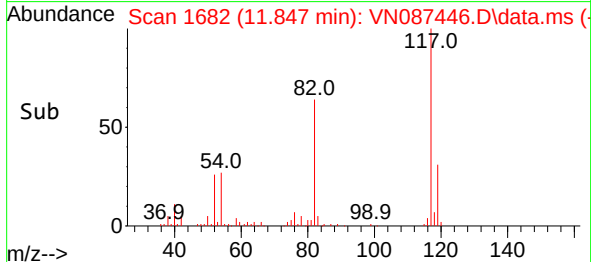
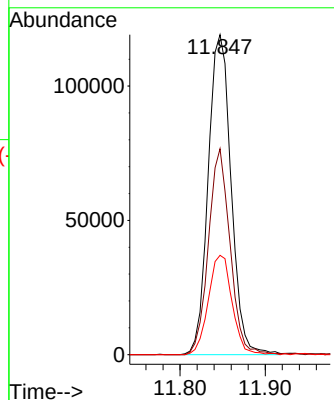
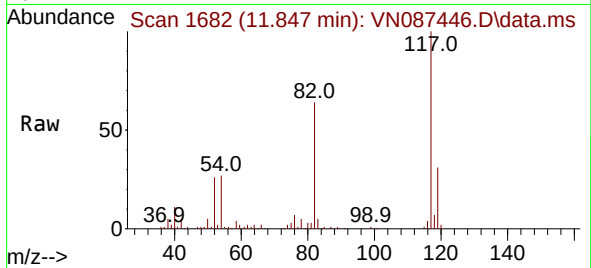




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

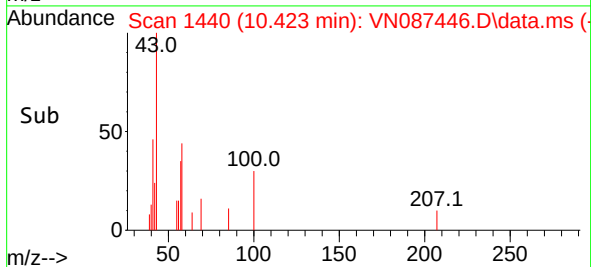
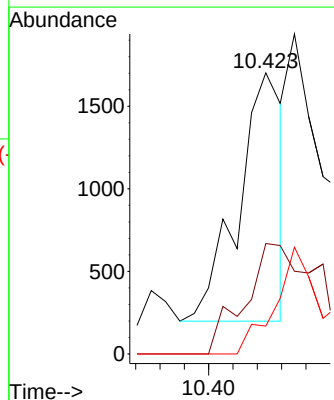
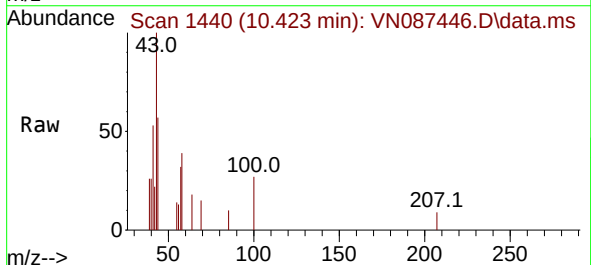
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

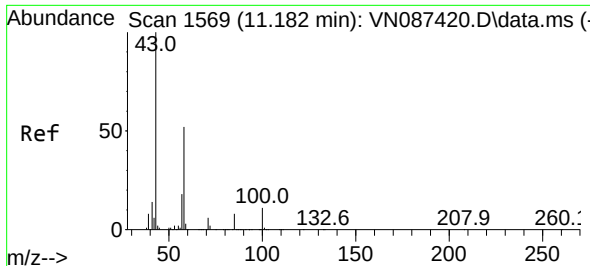
Tgt Ion:117 Resp: 222532
Ion Ratio Lower Upper
117 100
82 60.9 46.2 69.4
119 32.1 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.379 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 43 Resp: 1902
Ion Ratio Lower Upper
43 100
58 49.1 29.9 44.9#
85 0.0 12.8 19.2#

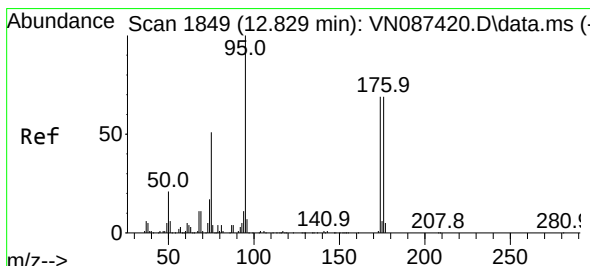
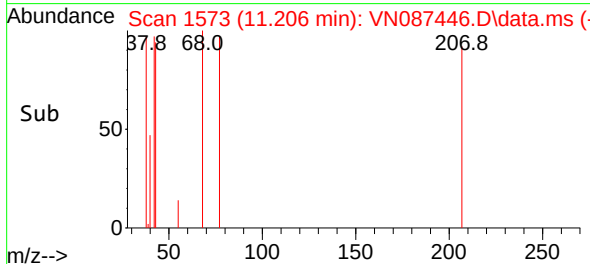
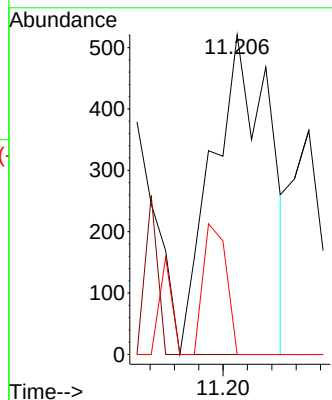
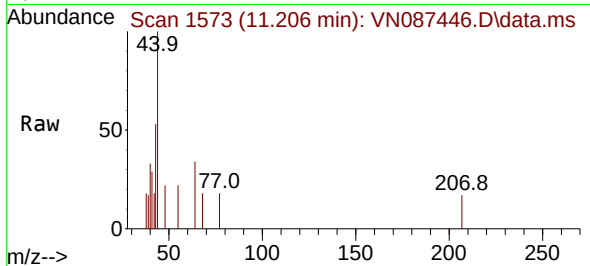




#59
2-Hexanone
Concen: 0.245 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.023 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

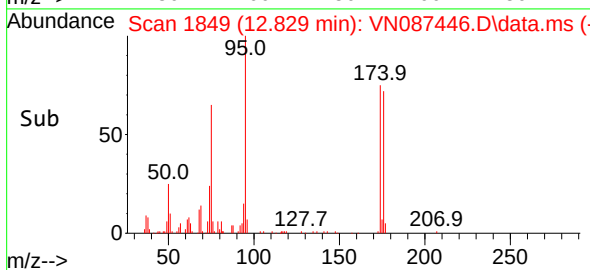
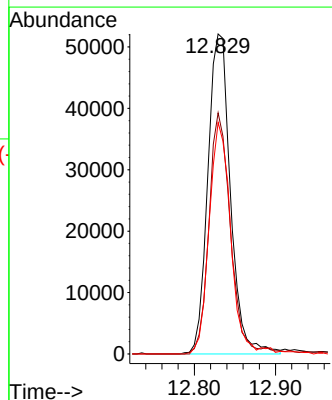
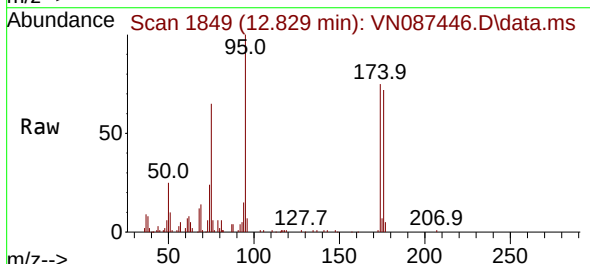
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

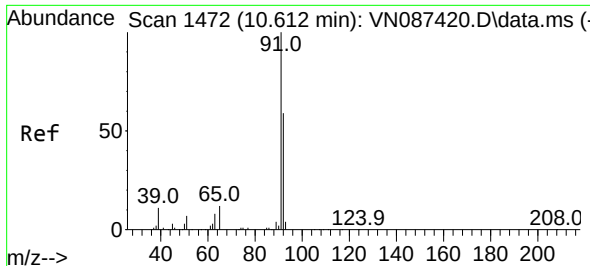
Tgt Ion: 43 Resp: 851
Ion Ratio Lower Upper
43 100
58 0.0 42.2 63.2#
57 16.5 14.3 21.5



#60
4-Bromofluorobenzene
Concen: 27.614 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 95 Resp: 100910
Ion Ratio Lower Upper
95 100
174 70.6 57.8 86.8
176 67.8 54.9 82.3

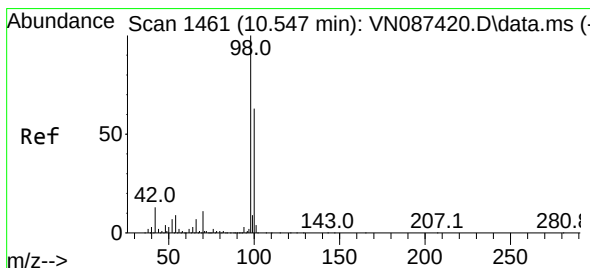
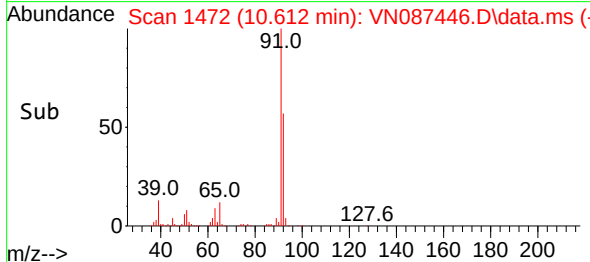
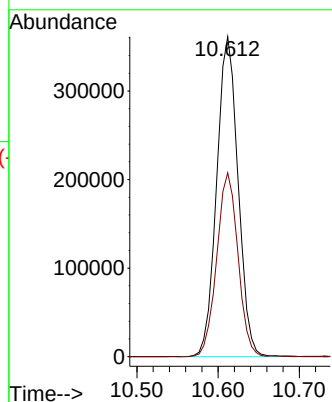
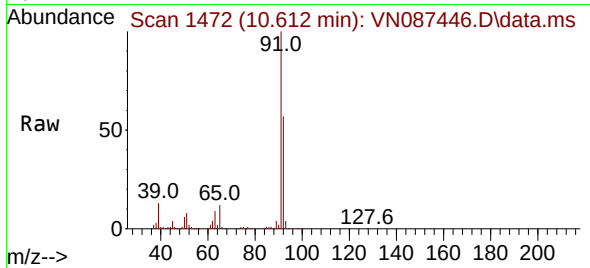




#62
Toluene
Concen: 52.641 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

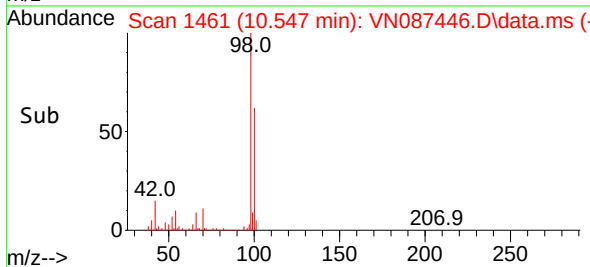
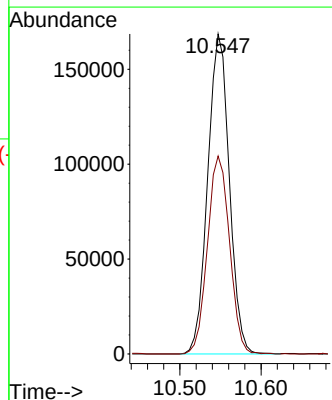
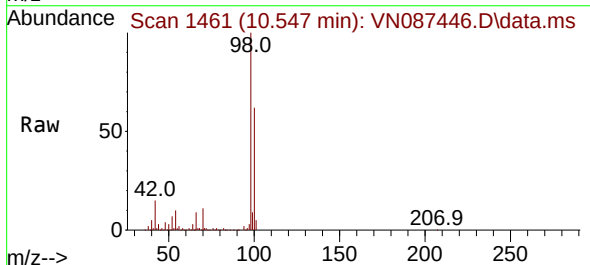
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

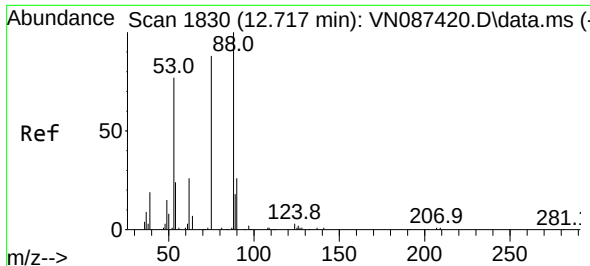
Tgt Ion: 91 Resp: 661108
Ion Ratio Lower Upper
91 100
92 57.0 45.6 68.4



#63
Toluene-d8
Concen: 30.481 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

Tgt Ion: 98 Resp: 311506
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1

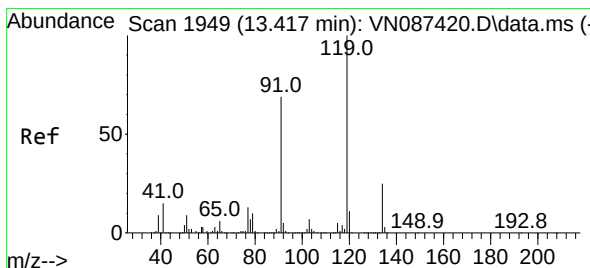
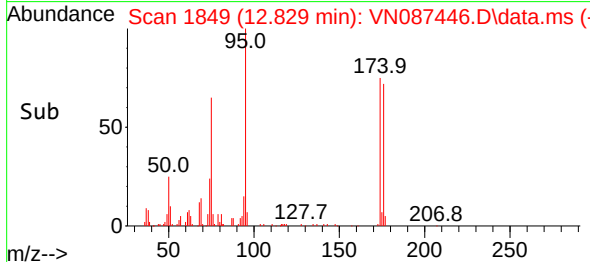
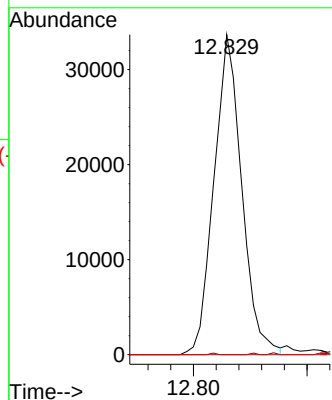
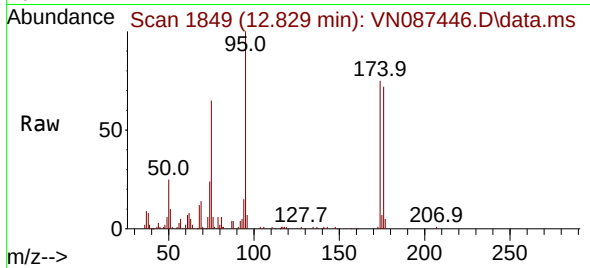




#77
t-1,4-Dichloro-2-butene
Concen: 33.630 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

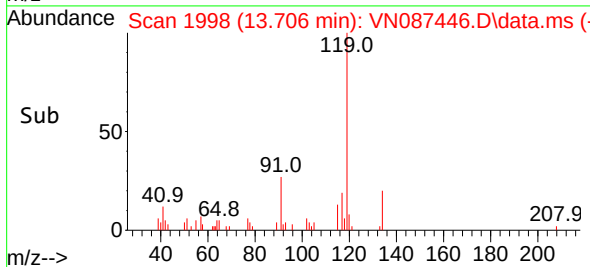
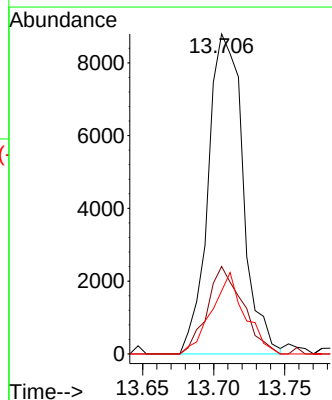
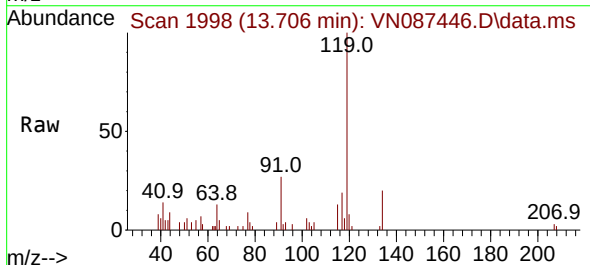
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)DL

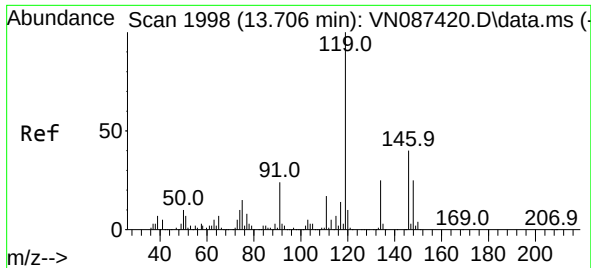
Tgt Ion: 75 Resp: 57189
Ion Ratio Lower Upper
75 100
53 0.0 44.3 132.8#
89 0.0 22.4 67.3#



#79
tert-butylbenzene
Concen: 1.620 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.288 min
Lab File: VN087446.D
Acq: 30 Jul 2025 15:34

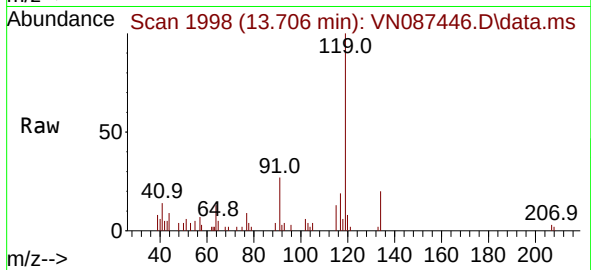
Tgt Ion:119 Resp: 14983
Ion Ratio Lower Upper
119 100
91 28.1 0.0 135.4
134 24.1 0.0 49.2





#82
 p-Isopropyltoluene
 Concen: 1.344 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087446.D
 Acq: 30 Jul 2025 15:34

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave(july)DL



Tgt Ion:	119	Resp:	14983
Ion	Ratio	Lower	Upper
119	100		
134	24.1	0.0	50.8
91	28.1	0.0	47.6

