

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087363.D
 Acq On : 18 Jul 2025 13:59
 Operator : JC\MD
 Sample : Q2630-02DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Jul 18 23:20:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

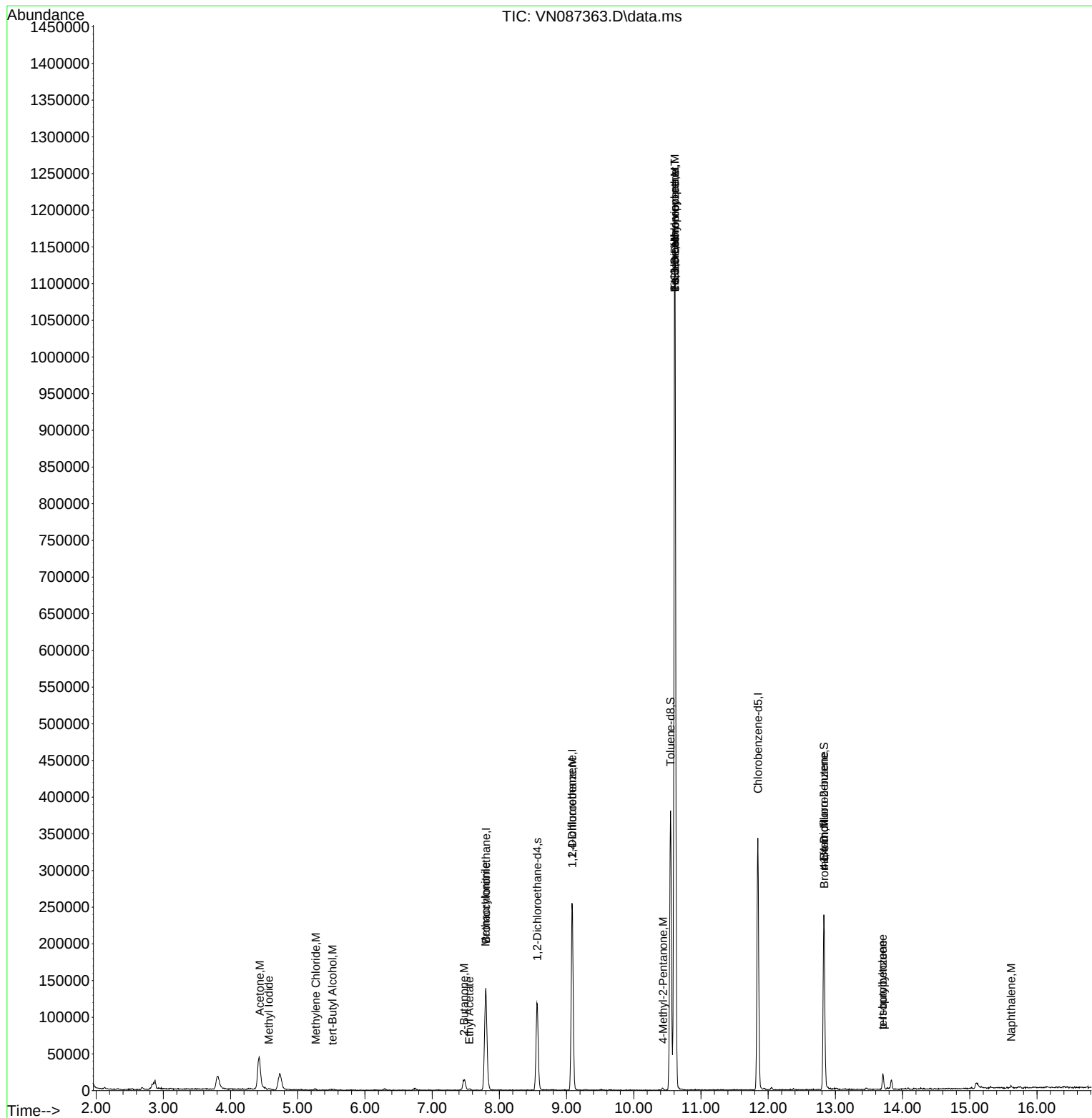
Internal Standards						
1) Bromochloromethane	7.800	128	45506	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.082	114	211698	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	193269	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	100699	29.370	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.900%
60) 4-Bromofluorobenzene	12.829	95	83753	28.083	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.600%
63) Toluene-d8	10.547	98	257514	29.675	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.933%
Target Compounds						
					Qvalue	
11) Methyl Iodide	4.571	142	1270	0.514	ug/l #	89
15) Acetone	4.436	58	25861	43.958	ug/l	94
18) Methylene Chloride	5.271	84	788	0.247	ug/l #	36
23) tert-Butyl Alcohol	5.518	59	748	0.986	ug/l #	100
30) 2-Butanone	7.477	43	26473	11.894	ug/l #	81
35) Methacrylonitrile	7.794	41	1010	0.450	ug/l #	30
36) 1,2-Dichloroethane	9.088	62	7975	2.361	ug/l #	75
43) Ethyl Acetate	7.553	43	3260	0.811	ug/l #	82
48) t-1,3-Dichloropropene	10.612	75	6790	1.691	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	6790	1.591	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.612	63	79478	35.947	ug/l #	1
56) Bromoform	12.835	173	733	0.401	ug/l #	1
58) 4-Methyl-2-Pentanone	10.435	43	2840	0.731	ug/l #	65
62) Toluene	10.612	91	896943	82.171	ug/l	99
77) t-1,4-Dichloro-2-butene	12.829	75	45107	30.116	ug/l #	13
79) tert-butylbenzene	13.706	119	11453	1.539	ug/l	60
82) p-Isopropyltoluene	13.706	119	11453	1.272	ug/l	97
91) Naphthalene	15.617	128	3215	0.301	ug/l #	85

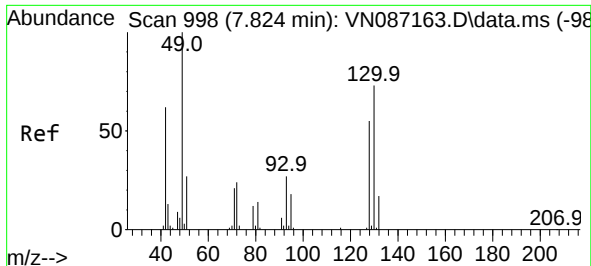
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
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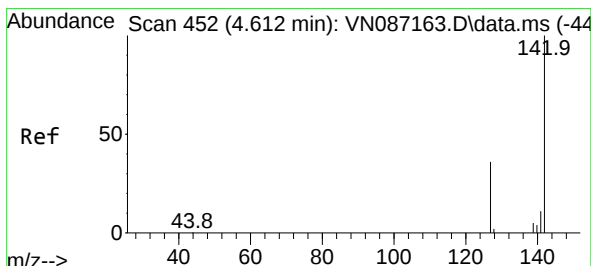
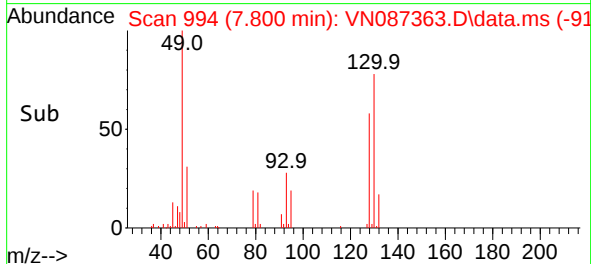
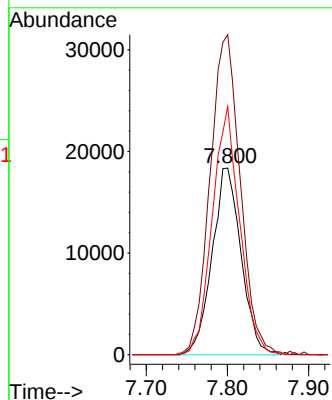
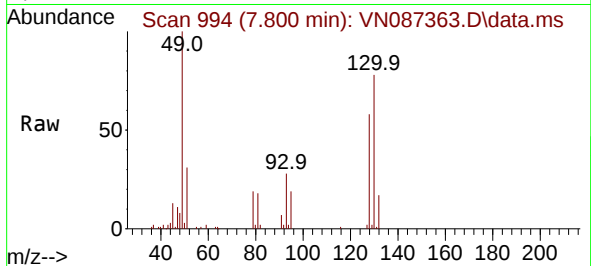




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 91
Delta R.T. -0.024 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

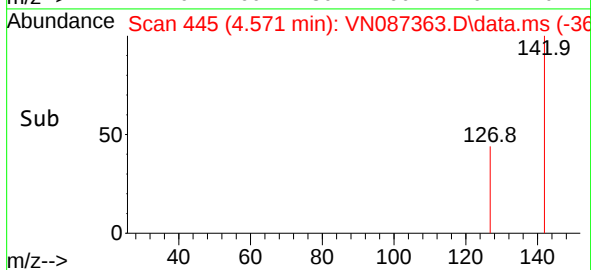
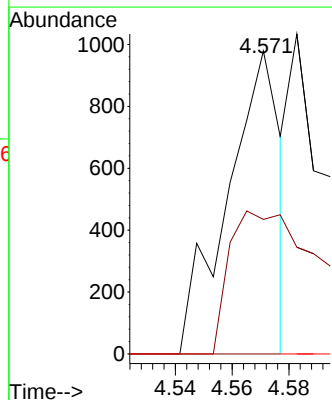
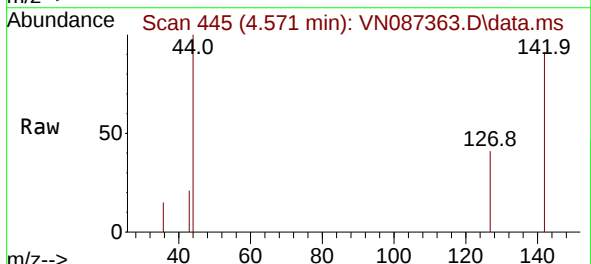
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)DL

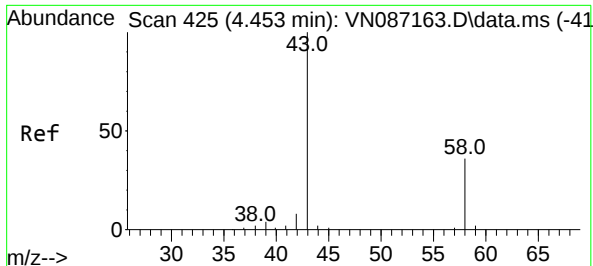
Tgt Ion:128 Resp: 45506
Ion Ratio Lower Upper
128 100
49 178.7 0.0 450.5
130 126.0 0.0 320.7



#11
Methyl Iodide
Concen: 0.514 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.041 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion:142 Resp: 1270
Ion Ratio Lower Upper
142 100
127 33.4 18.1 54.1
141 0.0 5.7 17.1#





#15

Acetone

Concen: 43.958 ug/l

RT: 4.436 min Scan# 41

Delta R.T. -0.018 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

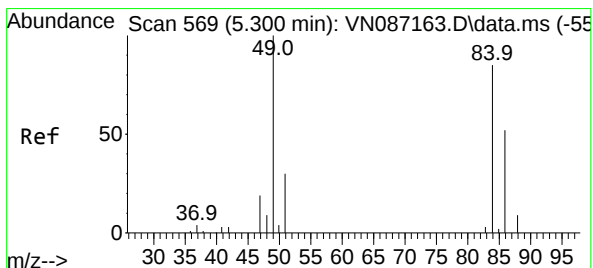
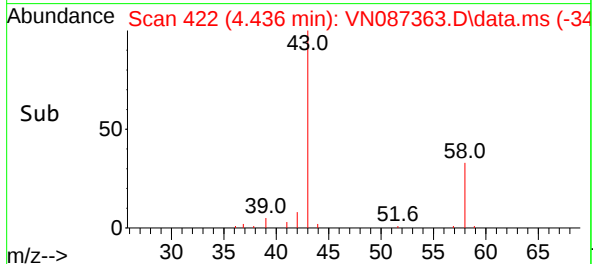
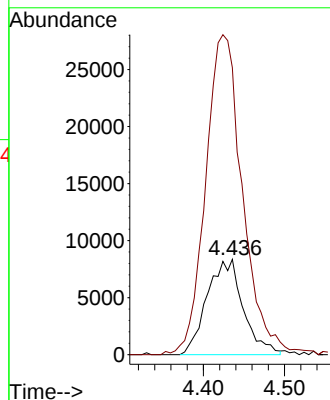
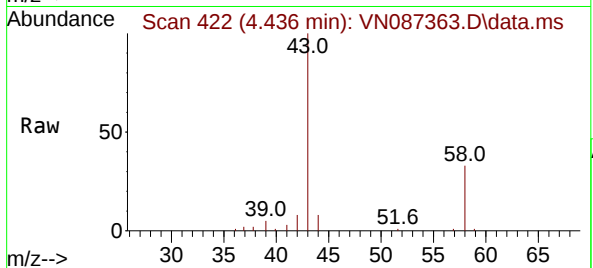
002 35th Ave (JUNE)DL

Tgt Ion: 58 Resp: 25861

Ion Ratio Lower Upper

58 100

43 291.5 224.3 336.5



#18

Methylene Chloride

Concen: 0.247 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.029 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

Tgt Ion: 84 Resp: 788

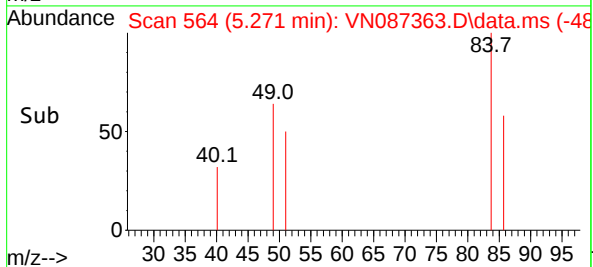
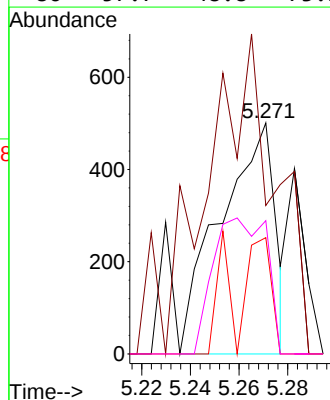
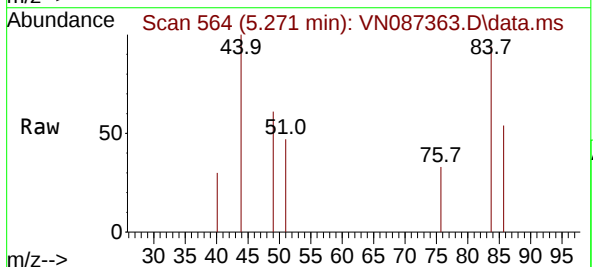
Ion Ratio Lower Upper

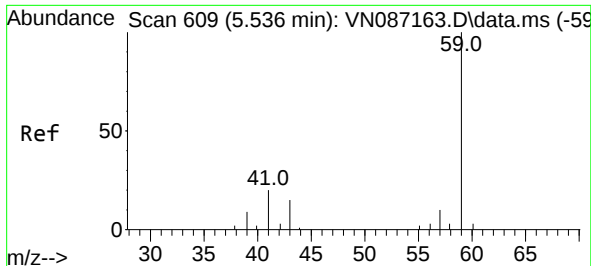
84 100

49 0.0 94.0 141.0#

51 50.3 28.3 42.5#

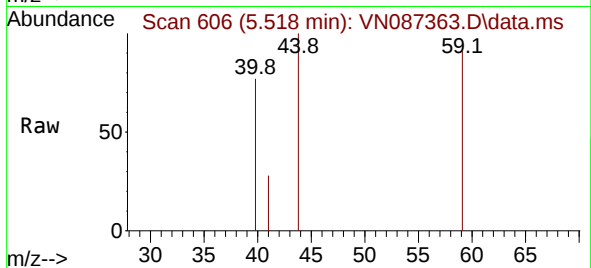
86 57.7 48.8 73.2



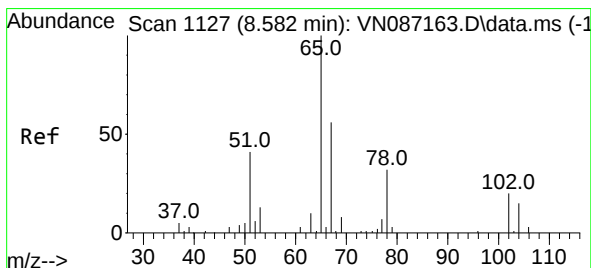
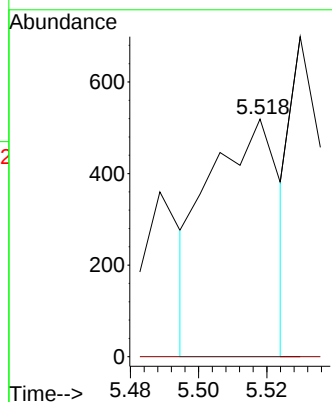
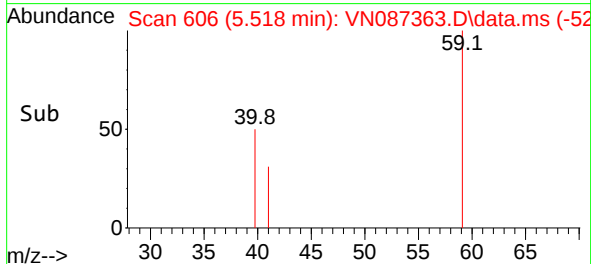


#23
tert-Butyl Alcohol
Concen: 0.986 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

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

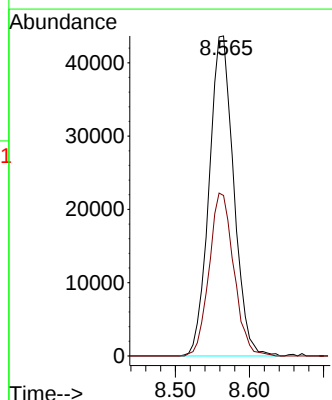
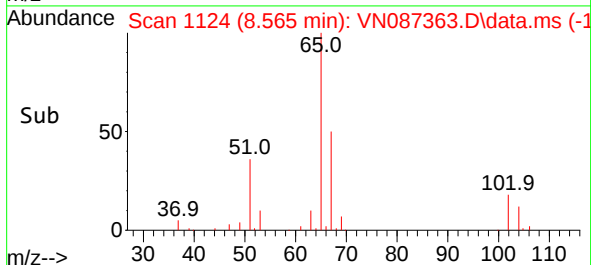
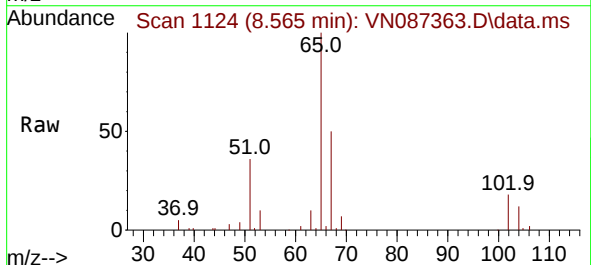


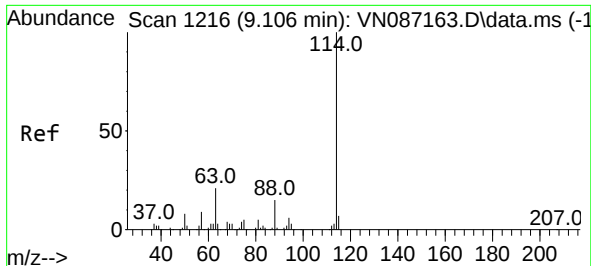
Tgt Ion: 59 Resp: 748
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.370 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion: 65 Resp: 100699
Ion Ratio Lower Upper
65 100
67 51.0 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.023 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (JUNE)DL

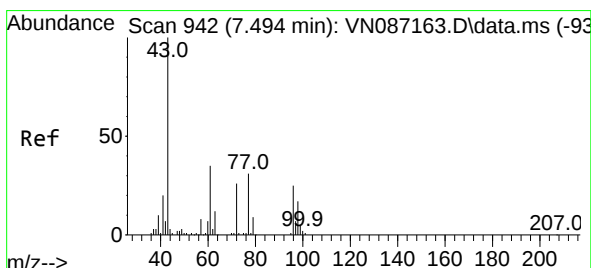
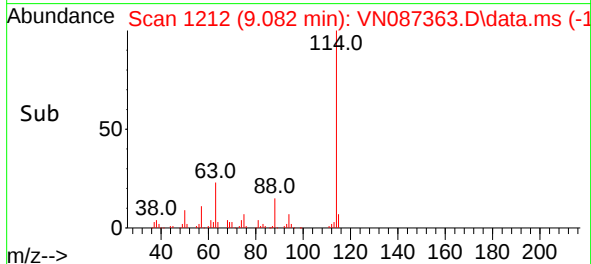
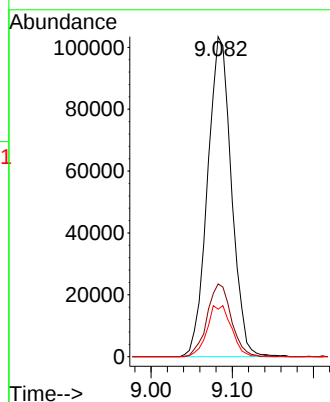
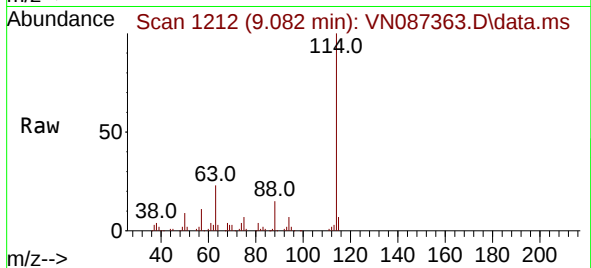
Tgt Ion:114 Resp: 211698

Ion Ratio Lower Upper

114 100

63 22.9 17.0 25.4

88 16.1 12.6 19.0



#30

2-Butanone

Concen: 11.894 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.018 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

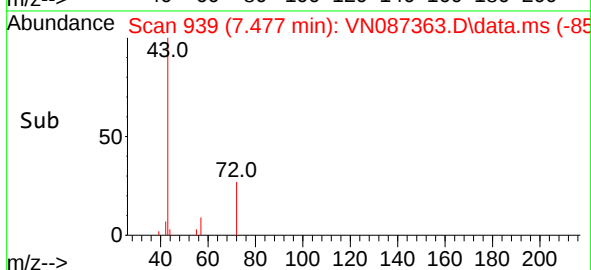
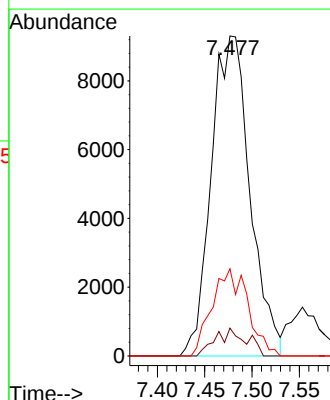
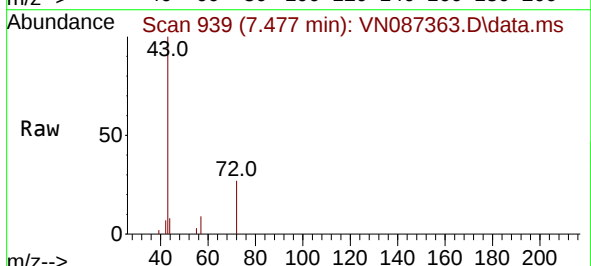
Tgt Ion: 43 Resp: 26473

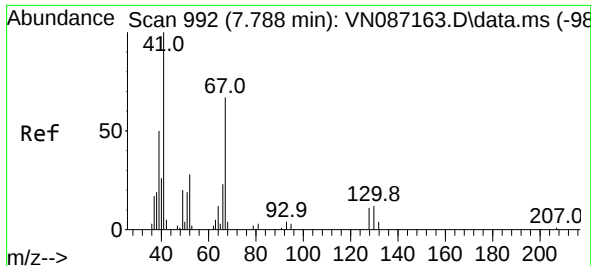
Ion Ratio Lower Upper

43 100

57 3.0 6.3 9.5#

72 16.7 21.8 32.6#

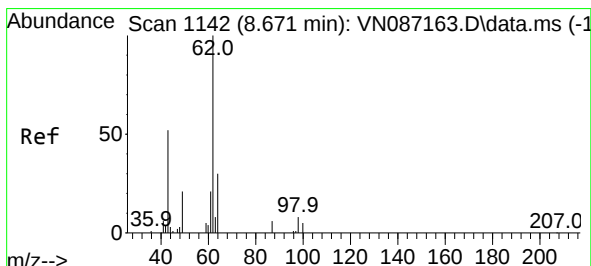
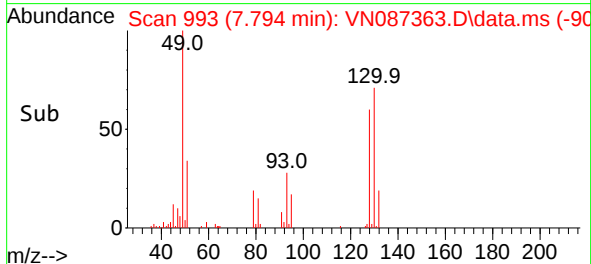
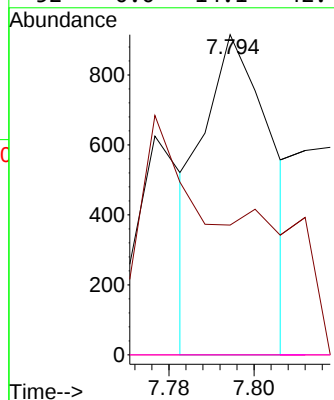
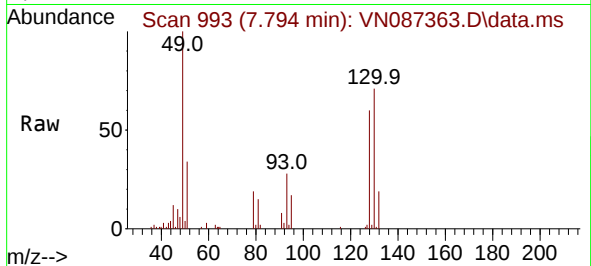




#35
Methacrylonitrile
Concen: 0.450 ug/l
RT: 7.794 min Scan# 992
Delta R.T. 0.006 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

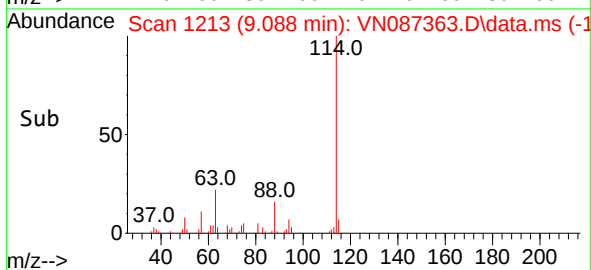
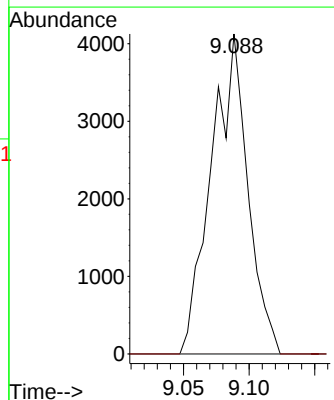
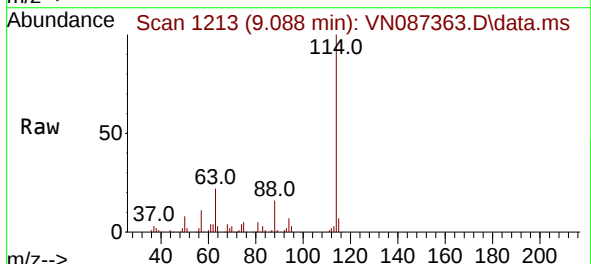
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)DL

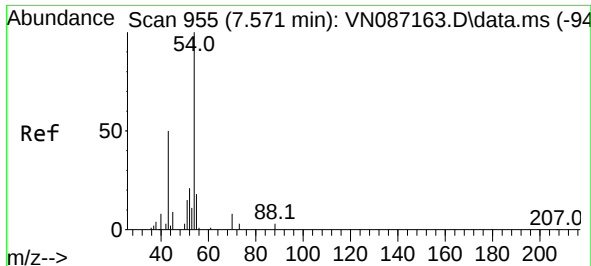
Tgt Ion:	41	Resp:	1010
Ion	Ratio	Lower	Upper
41	100		
39	7.4	24.4	73.2#
67	0.0	33.3	99.8#
52	0.0	14.1	42.4#



#36
1,2-Dichloroethane
Concen: 2.361 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.418 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion:	62	Resp:	7975
Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.2	10.8#

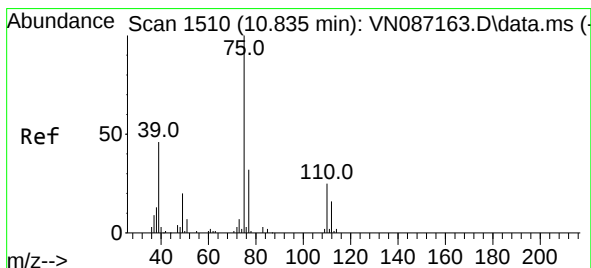
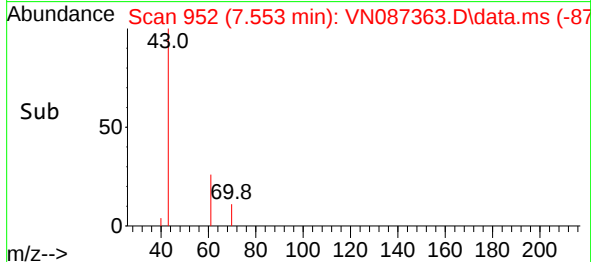
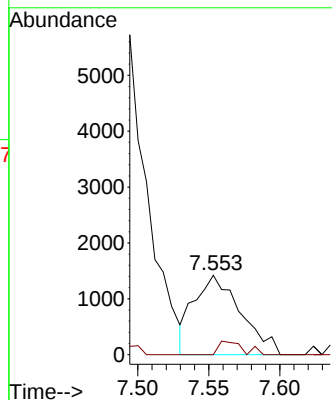
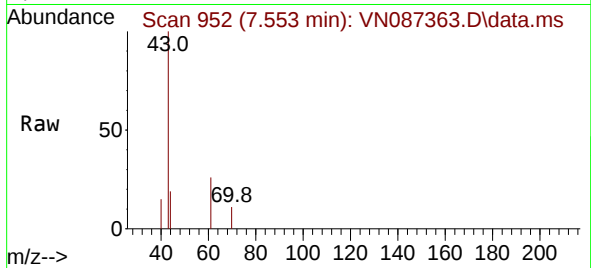




#43
Ethyl Acetate
Concen: 0.811 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

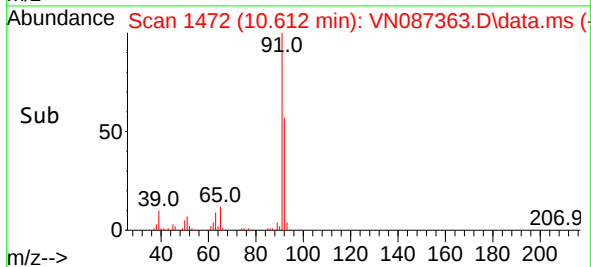
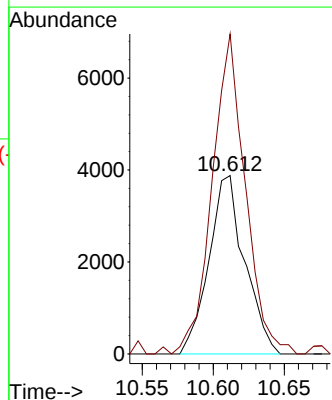
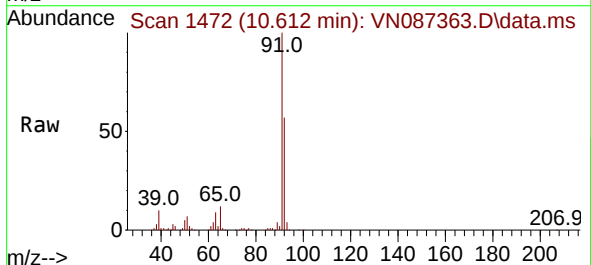
Instrument :
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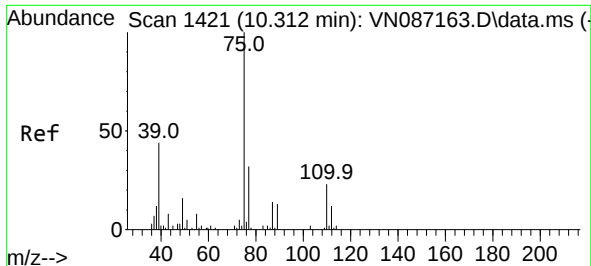
Tgt Ion: 43 Resp: 3260
Ion Ratio Lower Upper
43 100
45 7.1 11.5 17.3#



#48
t-1,3-Dichloropropene
Concen: 1.691 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.223 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion: 75 Resp: 6790
Ion Ratio Lower Upper
75 100
77 175.2 25.4 38.0#

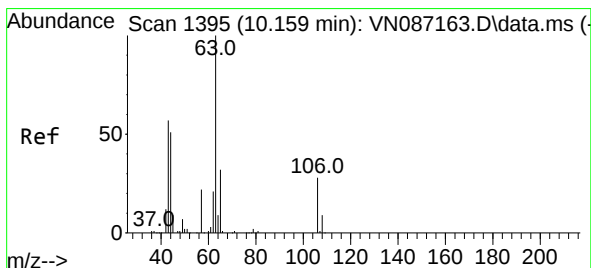
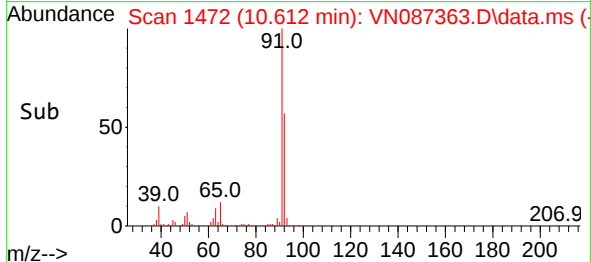
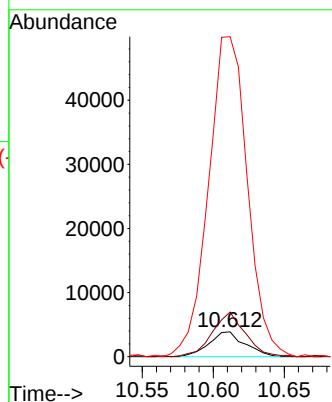
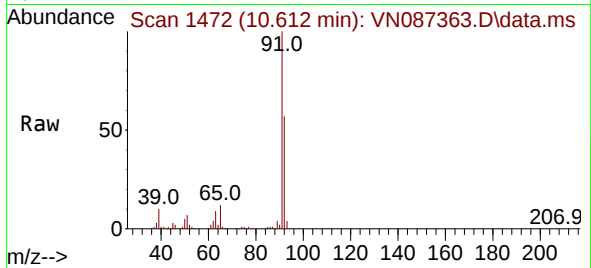




#49
 cis-1,3-Dichloropropene
 Concen: 1.591 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.300 min
 Lab File: VN087363.D
 Acq: 18 Jul 2025 13:59

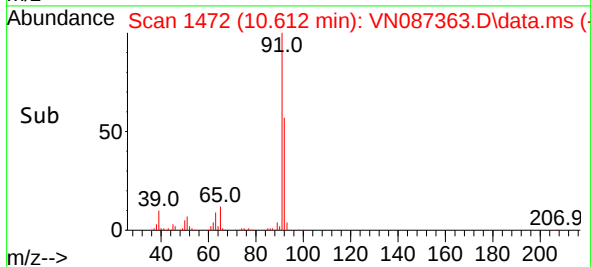
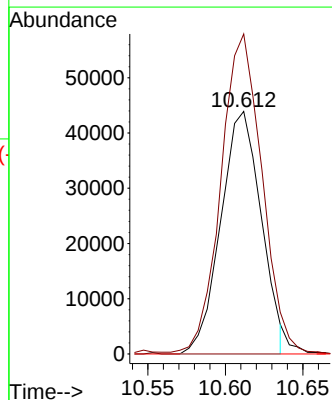
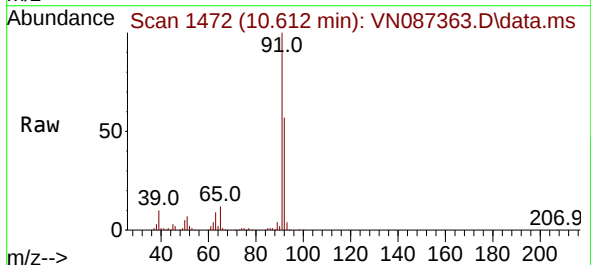
Instrument :
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 ClientSampleId :
 002 35th Ave (JUNE)DL

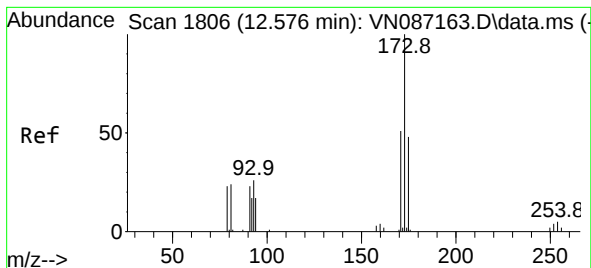
Tgt Ion: 75 Resp: 6790
 Ion Ratio Lower Upper
 75 100
 77 175.2 25.4 38.2#
 39 1255.3 35.3 52.9#



#55
 2-Chloroethyl vinyl ether
 Concen: 35.947 ug/l
 RT: 10.612 min Scan# 1472
 Delta R.T. 0.453 min
 Lab File: VN087363.D
 Acq: 18 Jul 2025 13:59

Tgt Ion: 63 Resp: 79478
 Ion Ratio Lower Upper
 63 100
 65 130.5 25.6 38.4#
 106 0.0 21.9 32.9#





#56

Bromoform

Concen: 0.401 ug/l

RT: 12.835 min Scan# 1806

Delta R.T. 0.259 min

Lab File: VN087363.D

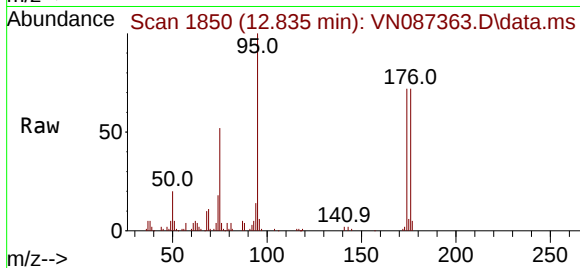
Acq: 18 Jul 2025 13:59

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (JUNE)DL



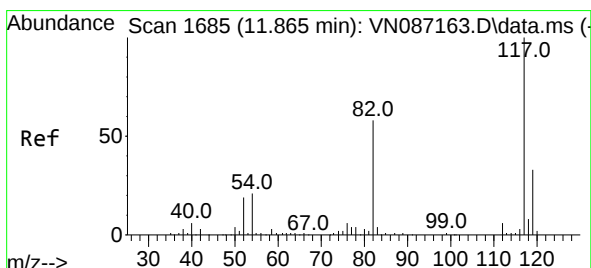
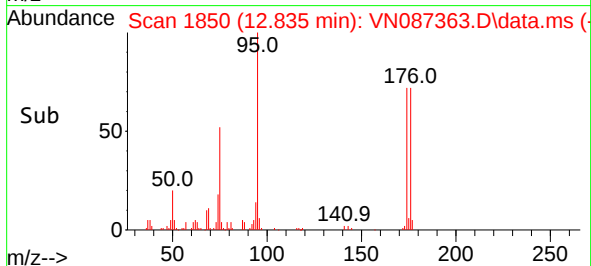
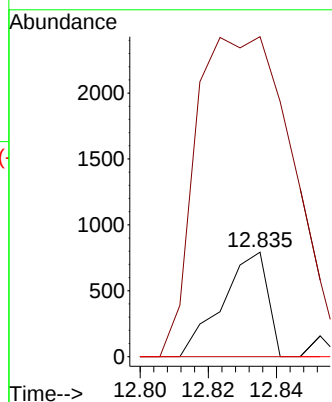
Tgt Ion:173 Resp: 733

Ion Ratio Lower Upper

173 100

175 647.9 38.7 58.1#

254 0.0 4.2 6.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. -0.018 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

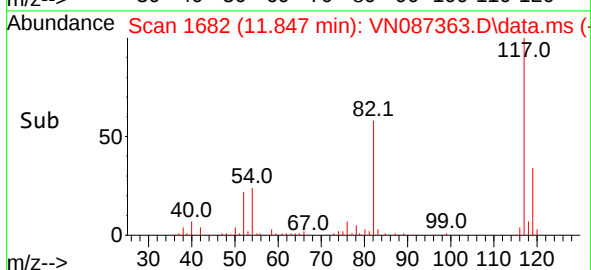
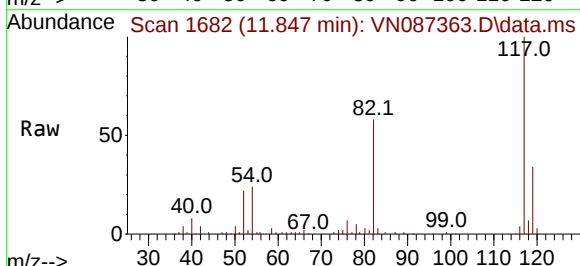
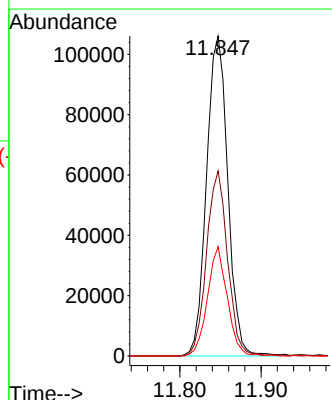
Tgt Ion:117 Resp: 193269

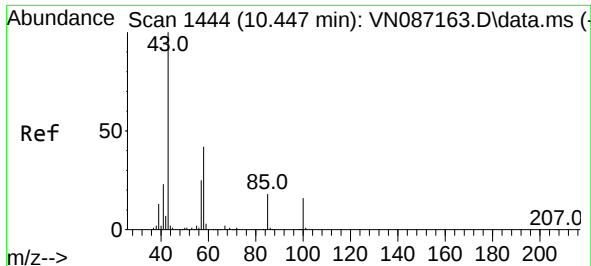
Ion Ratio Lower Upper

117 100

82 57.1 45.4 68.2

119 31.6 26.2 39.4

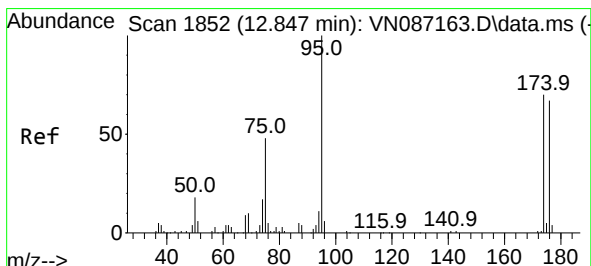
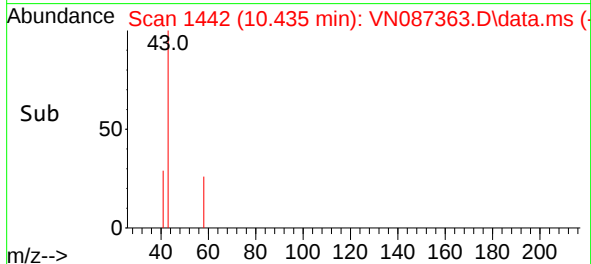
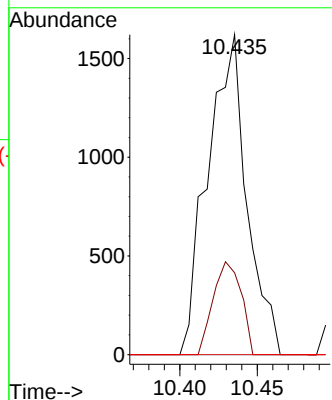
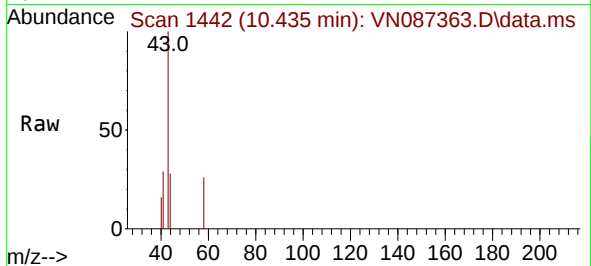




#58
4-Methyl-2-Pentanone
Concen: 0.731 ug/l
RT: 10.435 min Scan# 1444
Delta R.T. -0.012 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

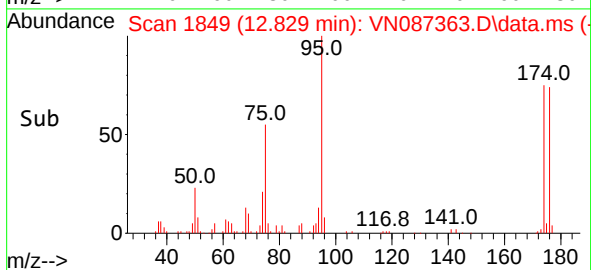
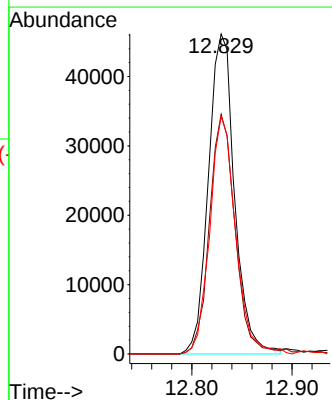
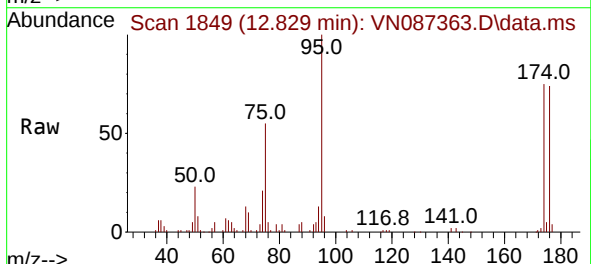
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)DL

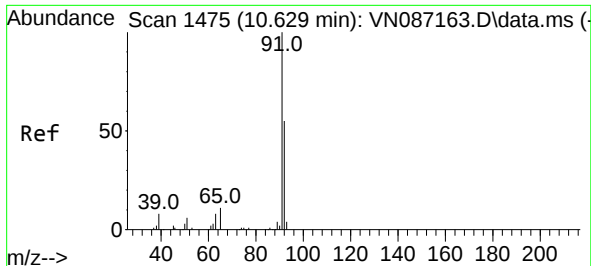
Tgt Ion: 43 Resp: 2840
Ion Ratio Lower Upper
43 100
58 20.8 32.6 49.0#
85 0.0 14.6 22.0#



#60
4-Bromofluorobenzene
Concen: 28.083 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion: 95 Resp: 83753
Ion Ratio Lower Upper
95 100
174 73.1 54.5 81.7
176 72.6 51.9 77.9

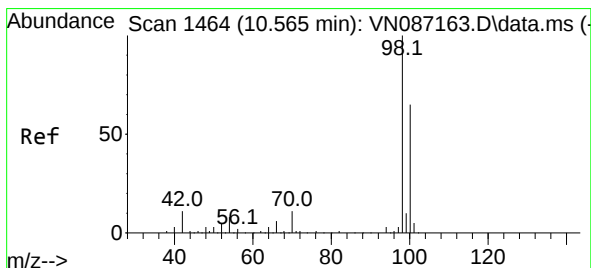
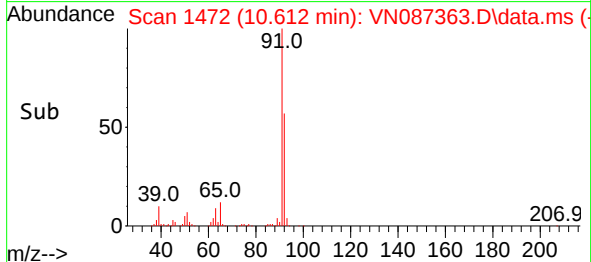
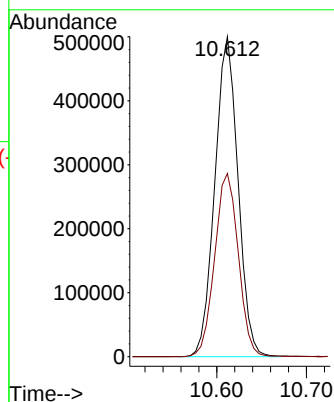
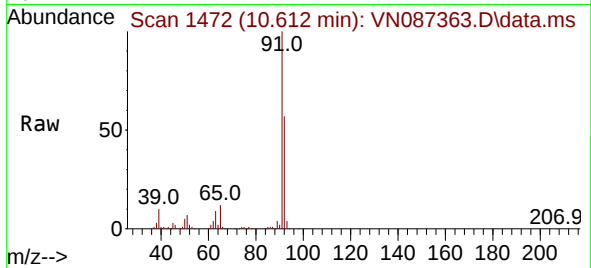




#62
Toluene
Concen: 82.171 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

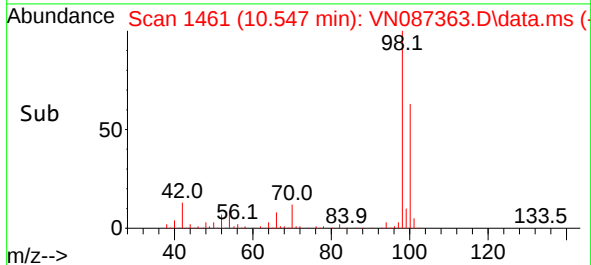
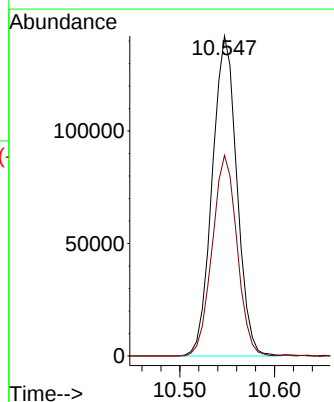
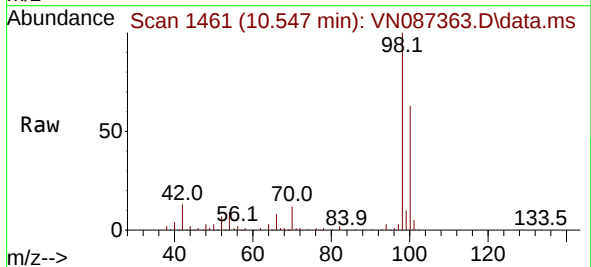
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (JUNE)DL

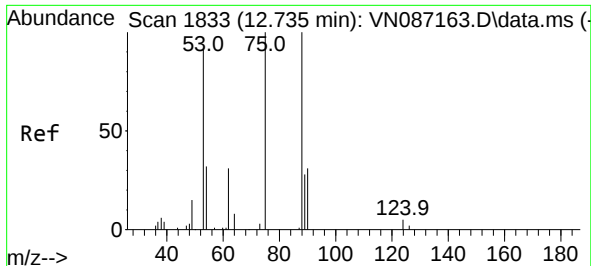
Tgt Ion: 91 Resp: 896943
Ion Ratio Lower Upper
91 100
92 58.3 45.8 68.8



#63
Toluene-d8
Concen: 29.675 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087363.D
Acq: 18 Jul 2025 13:59

Tgt Ion: 98 Resp: 257514
Ion Ratio Lower Upper
98 100
100 63.1 52.5 78.7

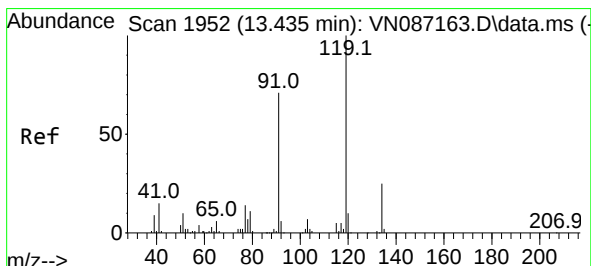
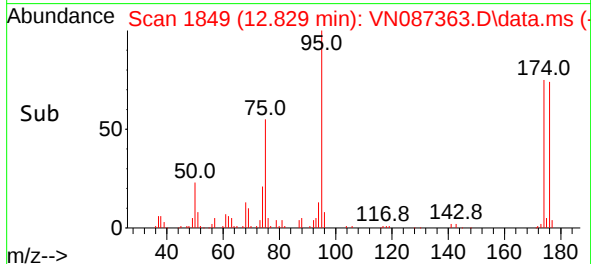
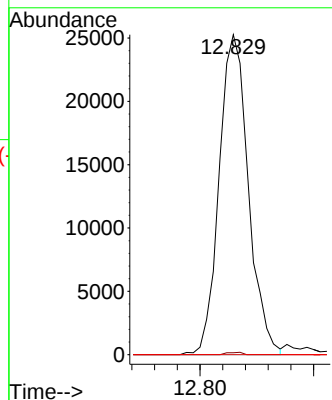
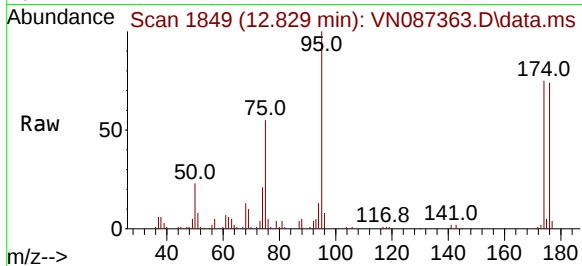




#77
 t-1,4-Dichloro-2-butene
 Concen: 30.116 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.094 min
 Lab File: VN087363.D
 Acq: 18 Jul 2025 13:59

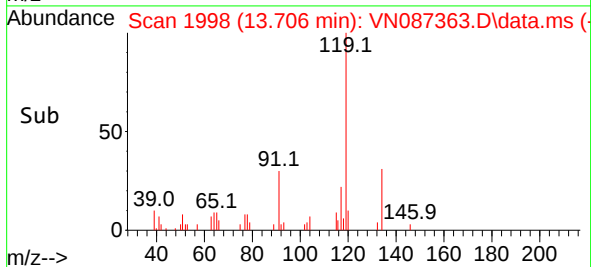
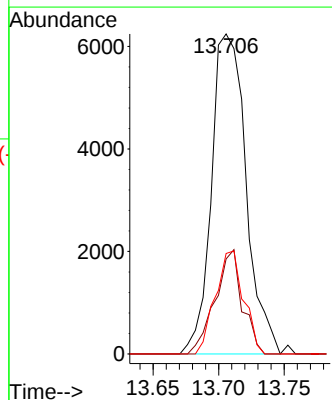
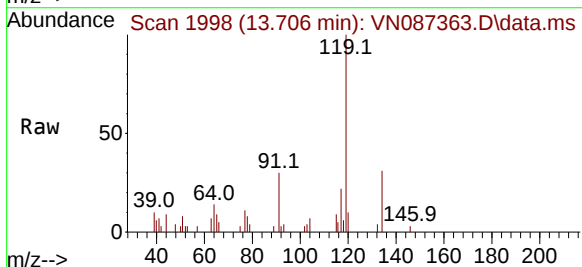
Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (JUNE)DL

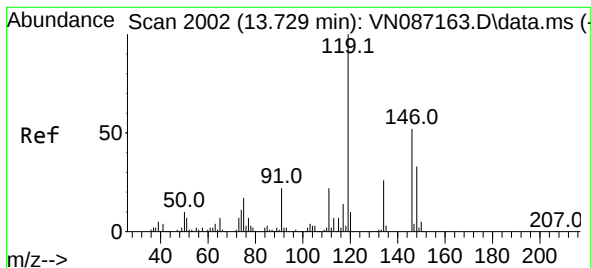
Tgt Ion: 75 Resp: 45107
 Ion Ratio Lower Upper
 75 100
 53 0.6 45.9 137.6#
 89 0.0 22.3 66.9#



#79
 tert-butylbenzene
 Concen: 1.539 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.271 min
 Lab File: VN087363.D
 Acq: 18 Jul 2025 13:59

Tgt Ion: 119 Resp: 11453
 Ion Ratio Lower Upper
 119 100
 91 25.6 0.0 137.0
 134 26.3 0.0 49.4





#82

p-Isopropyltoluene

Concen: 1.272 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.023 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

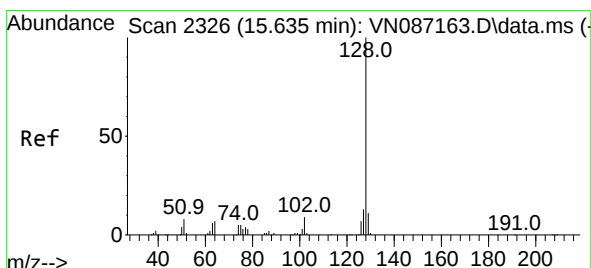
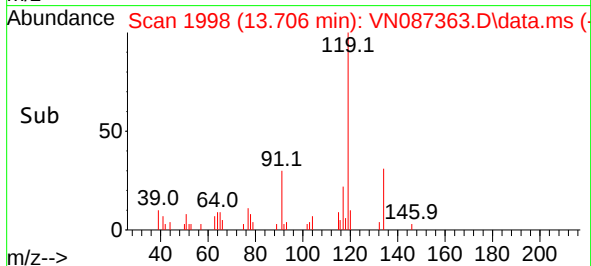
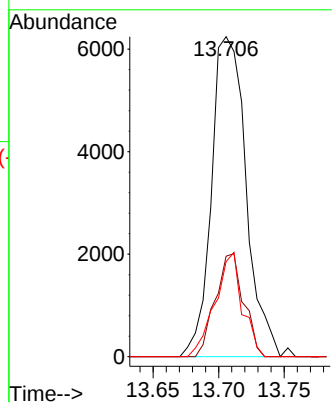
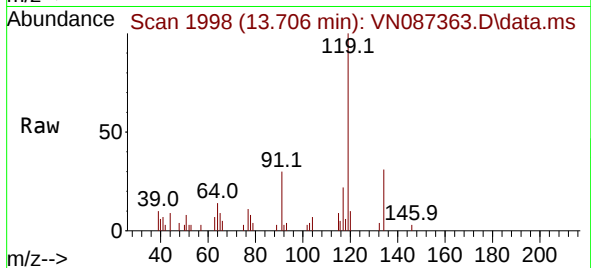
Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (JUNE)DL

Tgt Ion:119	Resp:	11453
Ion Ratio	Lower	Upper
119	100	
134	26.3	0.0 51.2
91	25.6	0.0 46.4



#91

Naphthalene

Concen: 0.301 ug/l

RT: 15.617 min Scan# 2323

Delta R.T. -0.018 min

Lab File: VN087363.D

Acq: 18 Jul 2025 13:59

Tgt Ion:128	Resp:	3215
Ion Ratio	Lower	Upper
128	100	
127	6.6	10.6 15.8#
129	5.8	8.8 13.2#

