

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086805.D
 Acq On : 29 May 2025 10:32
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: May 30 02:41:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

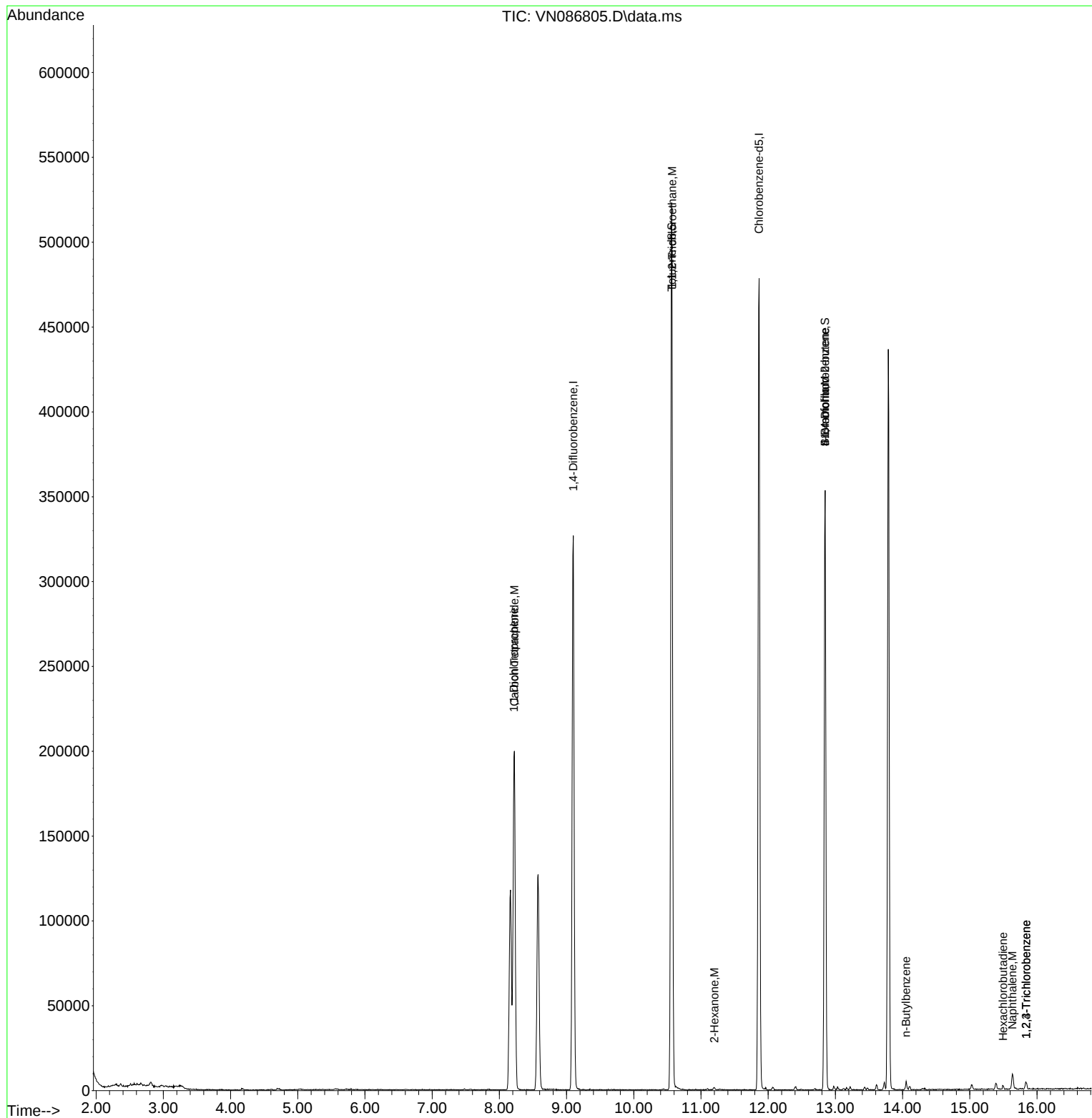
Internal Standards						
1) Bromochloromethane	0.000	128	0	0.000	ug/l	-7.81
28) 1,4-Difluorobenzene	9.100	114	295919	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	291535	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	104931	0.000	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	0.000%#
60) 4-Bromofluorobenzene	12.847	95	138555	30.271	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.900%
63) Toluene-d8	10.565	98	381970	28.546	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.167%
Target Compounds						
					Qvalue	
29) 1,1-Dichloropropene	8.218	75	11784	2.708	ug/l #	47
33) Carbon Tetrachloride	8.224	117	15003	3.480	ug/l #	15
50) 1,1,2-Trichloroethane	10.570	97	12402	3.950	ug/l #	1
56) Bromoform	12.847	173	529	0.237	ug/l #	1
59) 2-Hexanone	11.200	43	1090	0.356	ug/l #	86
77) t-1,4-Dichloro-2-butene	12.847	75	64220	35.058	ug/l #	14
85) n-Butylbenzene	14.053	91	3396	0.307	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	1997	0.675	ug/l #	82
90) Hexachlorobutadiene	15.494	225	490	0.387	ug/l	83
91) Naphthalene	15.635	128	9989	0.968	ug/l	97
92) 1,2,3-Trichlorobenzene	15.841	180	1997	0.675	ug/l	82

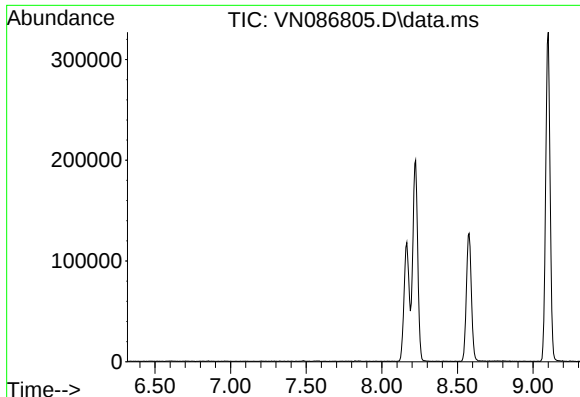
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IBLK

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 30 02:22:52 2025
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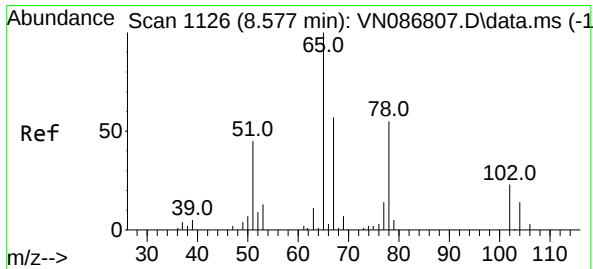
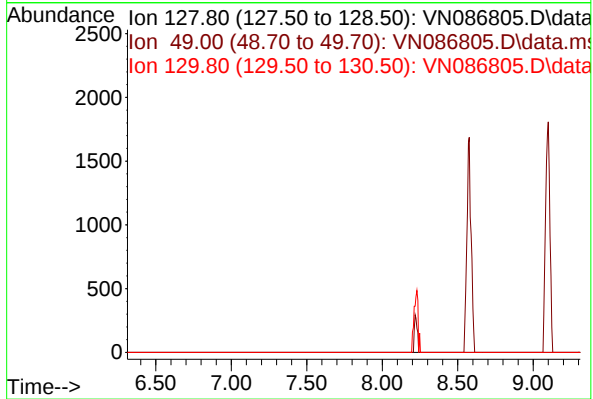


#1
 Bromochloromethane
 Concen: 0.000 ug/l
 Expected RT: 7.81 min
 Lab File: VN086805.D
 Acq: 29 May 2025 10:32

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion: 128

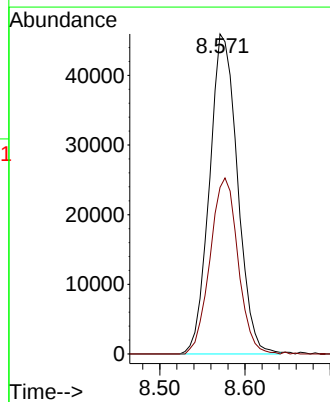
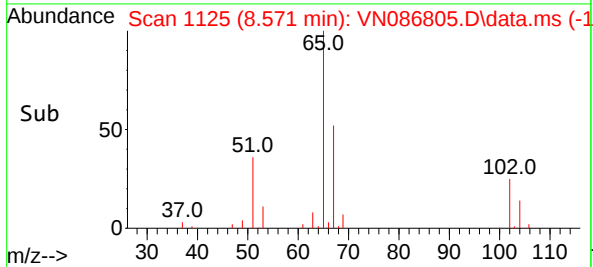
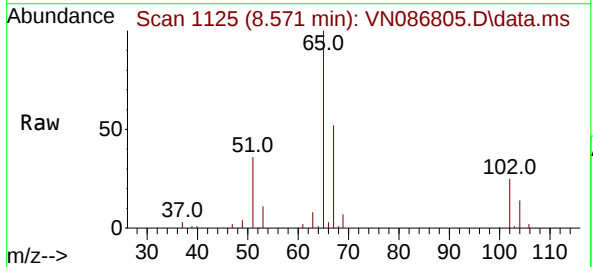
Sig	Exp Ratio
128	100
49	161.8
130	128.9

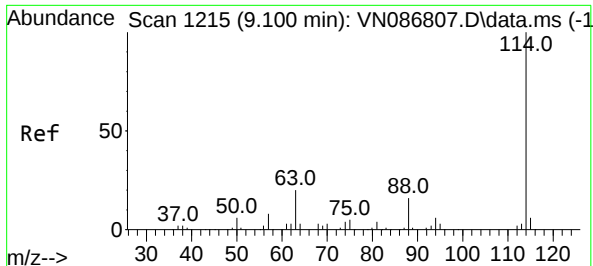


#27
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 8.571 min Scan# 1125
 Delta R.T. -0.006 min
 Lab File: VN086805.D
 Acq: 29 May 2025 10:32

Tgt Ion: 65 Resp: 104931

Ion	Ratio	Lower	Upper
65	100		
67	54.8	44.6	67.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

IBLK

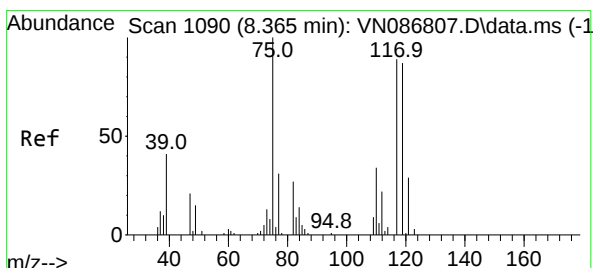
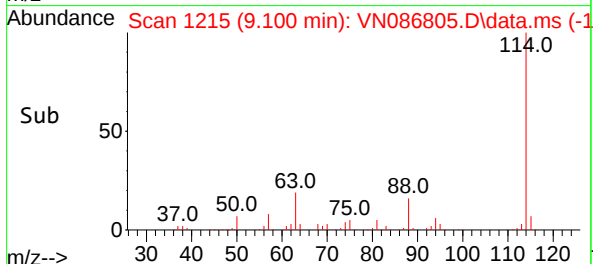
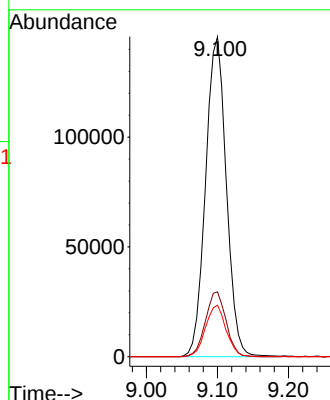
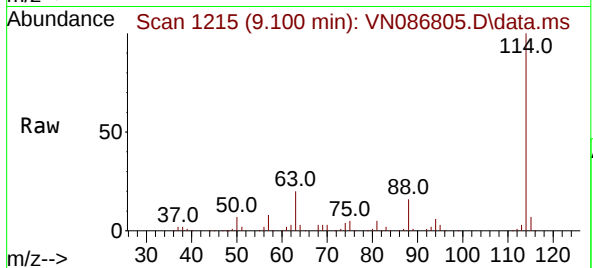
Tgt Ion:114 Resp: 295919

Ion Ratio Lower Upper

114 100

63 20.2 15.8 23.8

88 15.9 12.9 19.3



#29

1,1-Dichloropropene

Concen: 2.708 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

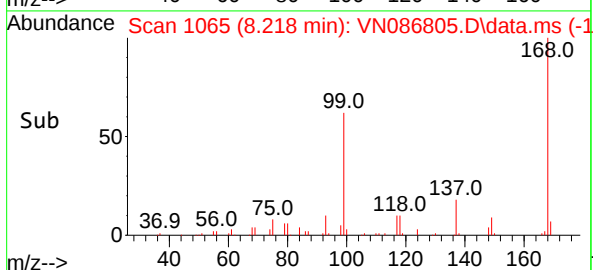
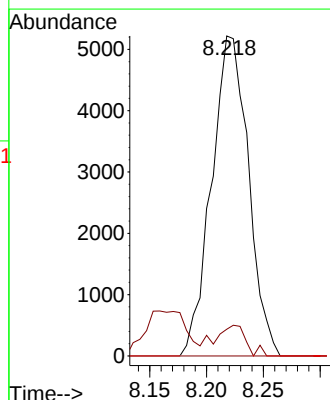
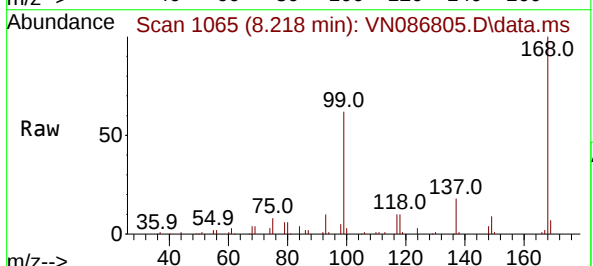
Tgt Ion: 75 Resp: 11784

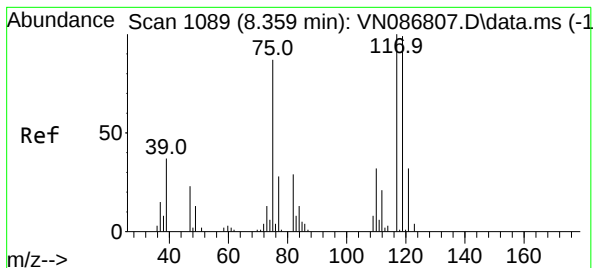
Ion Ratio Lower Upper

75 100

110 6.0 0.0 71.0

77 0.0 0.0 62.4





#33

Carbon Tetrachloride

Concen: 3.480 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN086805.D

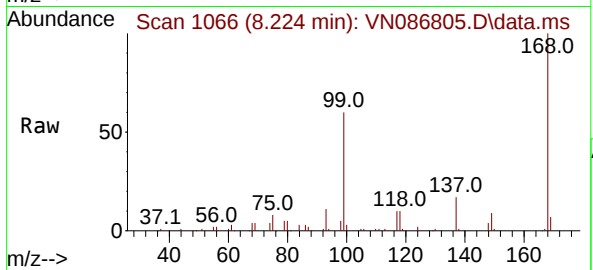
Acq: 29 May 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

IBLK



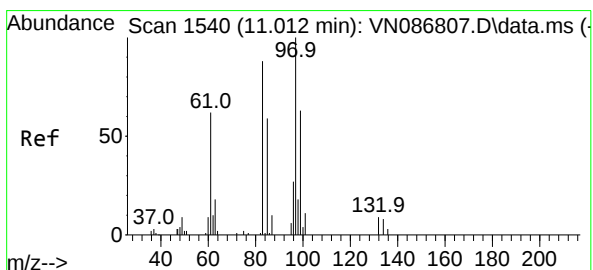
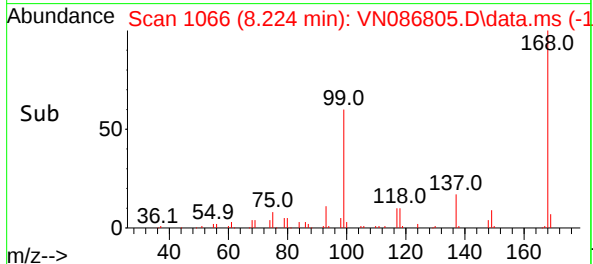
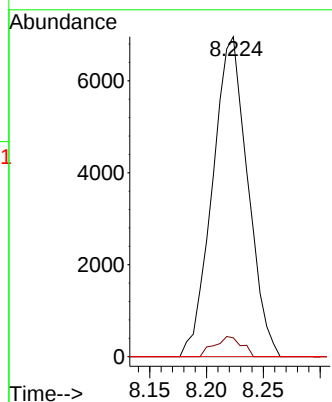
Tgt Ion:117 Resp: 15003

Ion Ratio Lower Upper

117 100

119 5.9 79.2 118.8#

121 0.0 25.6 38.4#



#50

1,1,2-Trichloroethane

Concen: 3.950 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.441 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Tgt Ion: 97 Resp: 12402

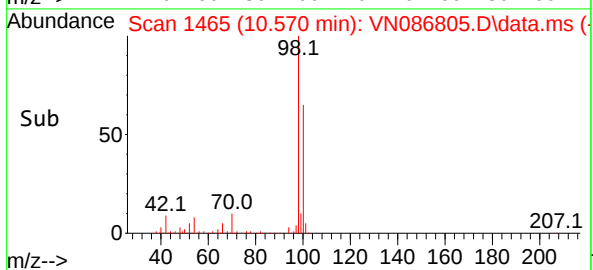
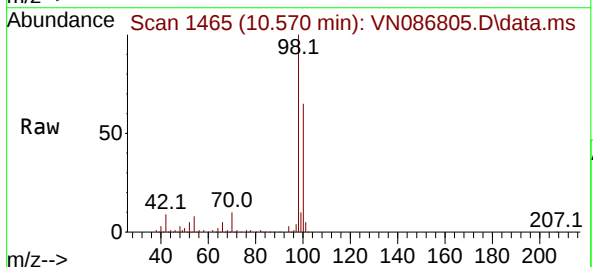
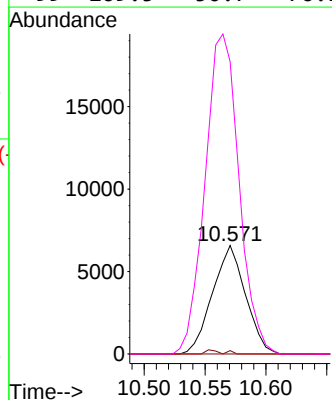
Ion Ratio Lower Upper

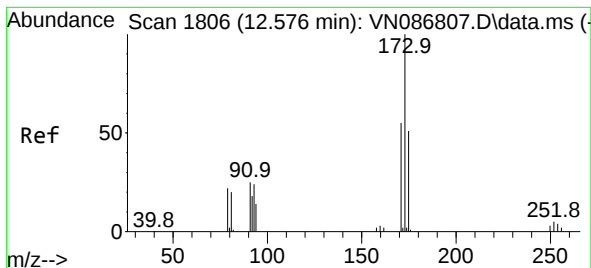
97 100

83 3.1 70.6 105.8#

85 0.0 46.8 70.2#

99 269.5 50.7 76.1#





#56

Bromoform

Concen: 0.237 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.270 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

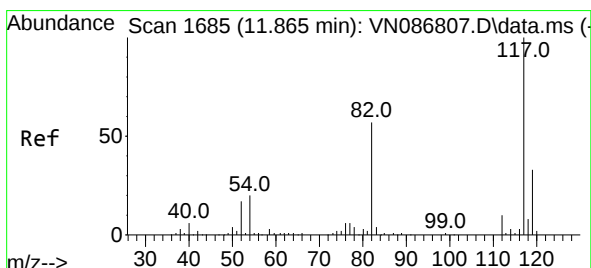
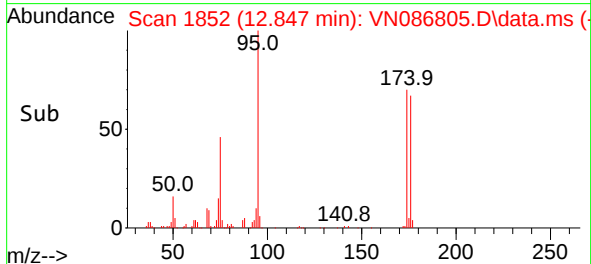
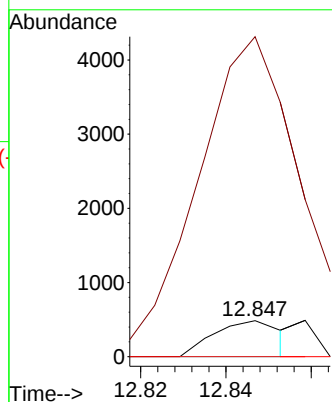
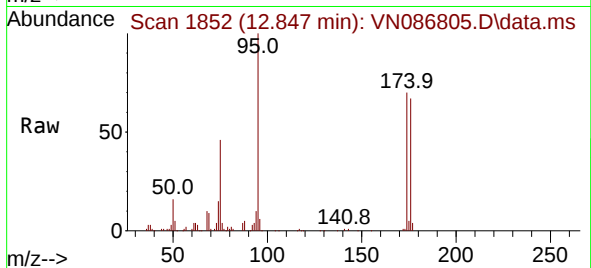
Instrument :

MSVOA_N

ClientSampleId :

IBLK

Tgt Ion:	173	Resp:	529
Ion Ratio	Lower	Upper	
173	100		
175	1369.0	39.7	59.5#
254	0.0	3.5	5.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

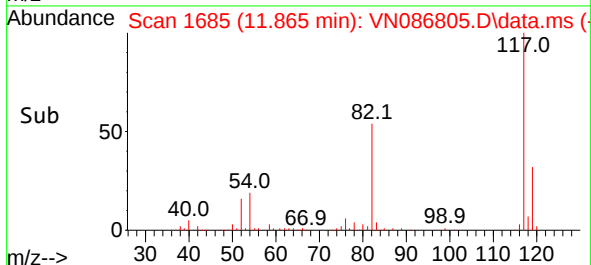
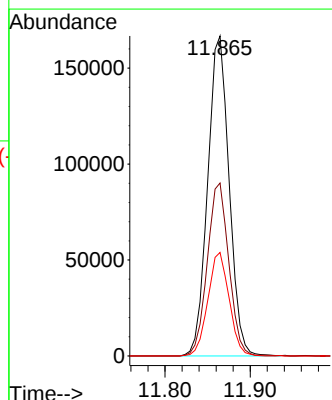
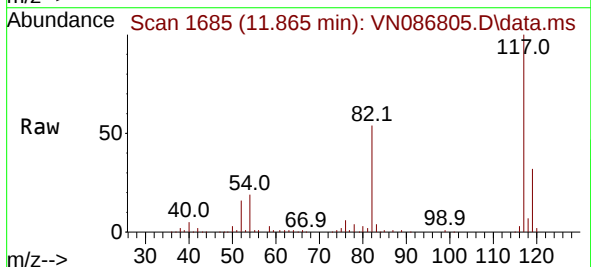
RT: 11.865 min Scan# 1685

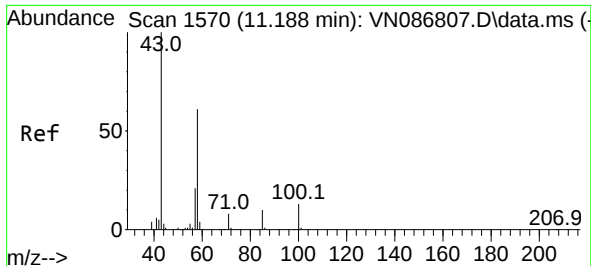
Delta R.T. -0.000 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Tgt Ion:	117	Resp:	291535
Ion Ratio	Lower	Upper	
117	100		
82	54.2	44.7	67.1
119	32.1	25.6	38.4

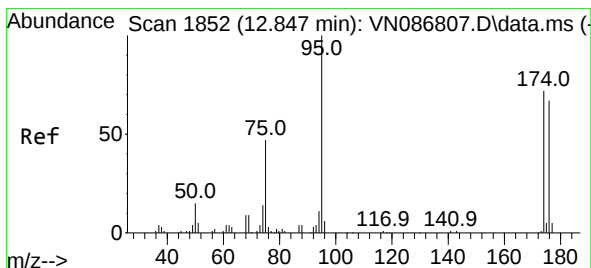
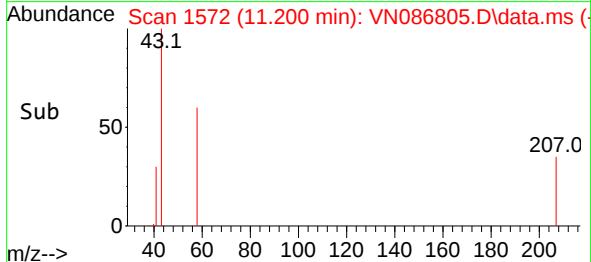
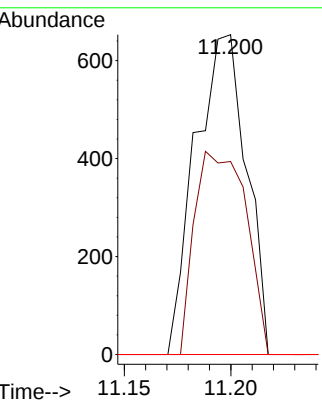
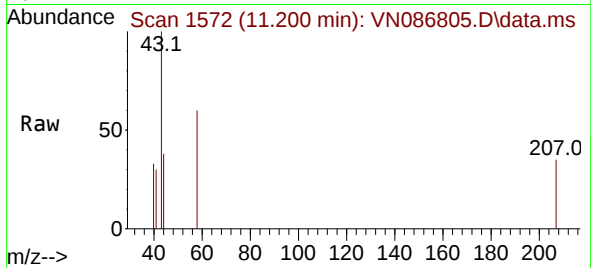




#59
2-Hexanone
Concen: 0.356 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

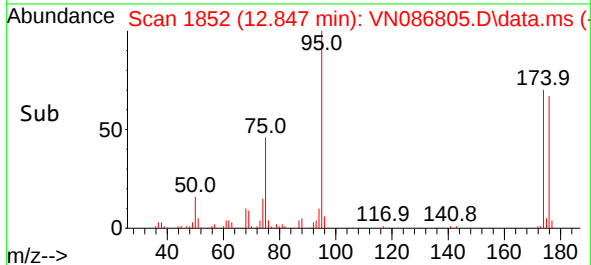
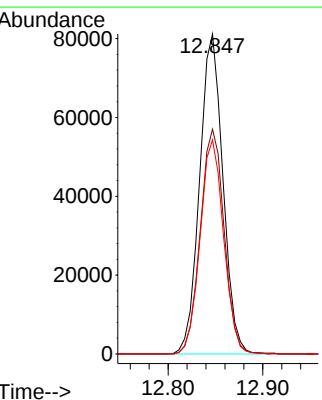
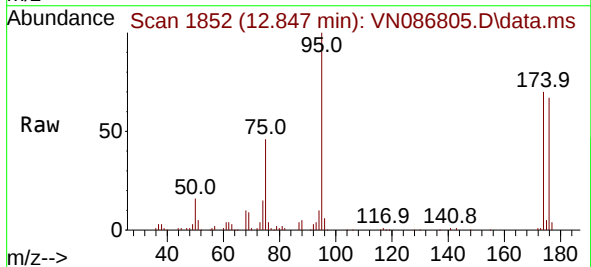
Instrument :
MSVOA_N
ClientSampleId :
IBLK

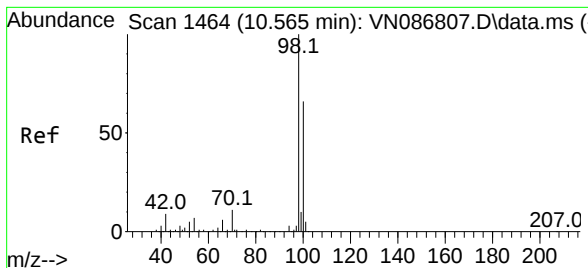
Tgt Ion: 43 Resp: 1090
Ion Ratio Lower Upper
43 100
58 64.1 49.1 73.7
57 0.0 16.6 25.0#



#60
4-Bromofluorobenzene
Concen: 30.271 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

Tgt Ion: 95 Resp: 138555
Ion Ratio Lower Upper
95 100
174 71.6 56.2 84.4
176 67.7 53.4 80.0





#63

Toluene-d8

Concen: 28.546 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

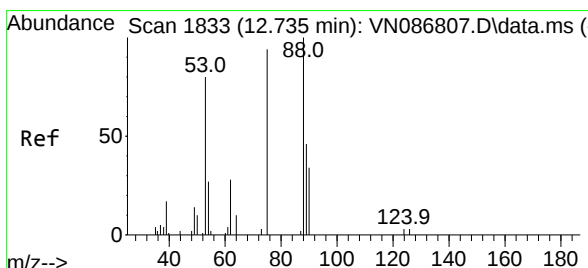
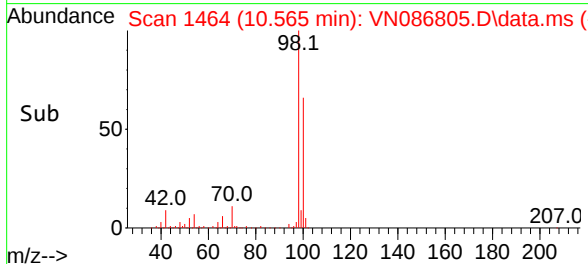
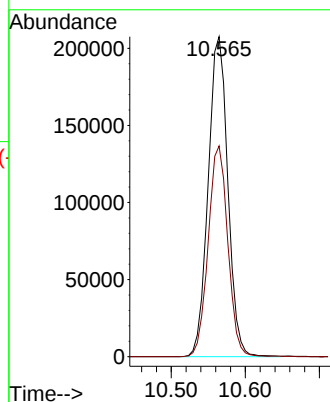
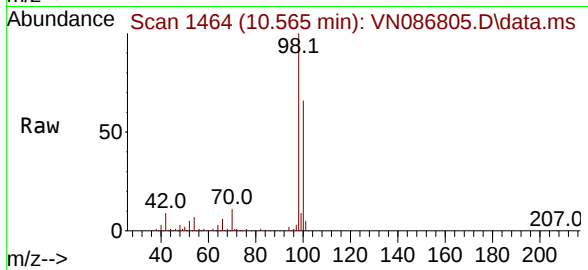
IBLK

Tgt Ion: 98 Resp: 381970

Ion Ratio Lower Upper

98 100

100 65.8 52.7 79.1



#77

t-1,4-Dichloro-2-butene

Concen: 35.058 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086805.D

Acq: 29 May 2025 10:32

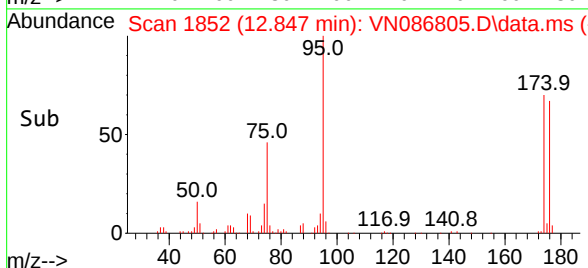
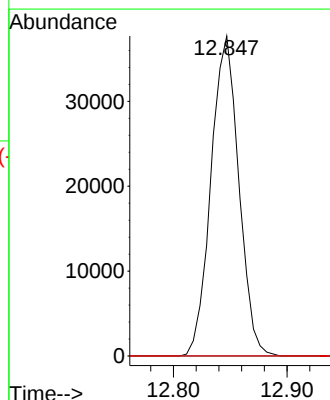
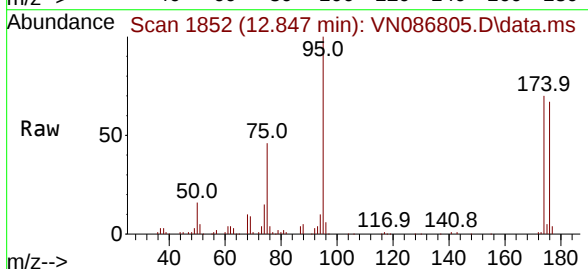
Tgt Ion: 75 Resp: 64220

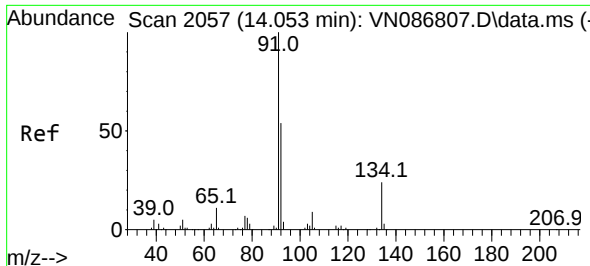
Ion Ratio Lower Upper

75 100

53 0.0 43.0 128.8#

89 0.0 25.4 76.2#

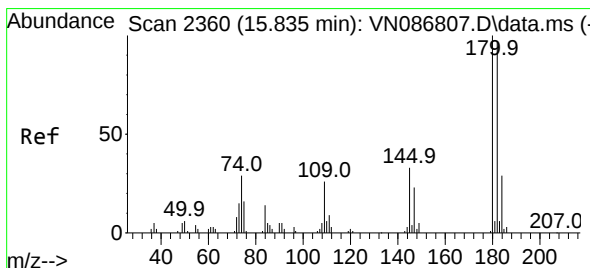
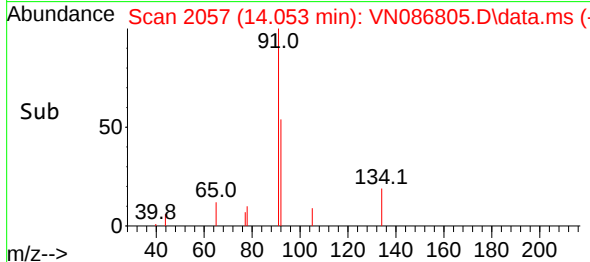
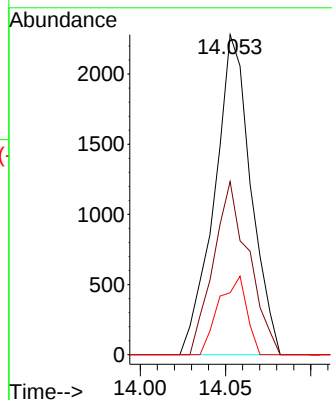
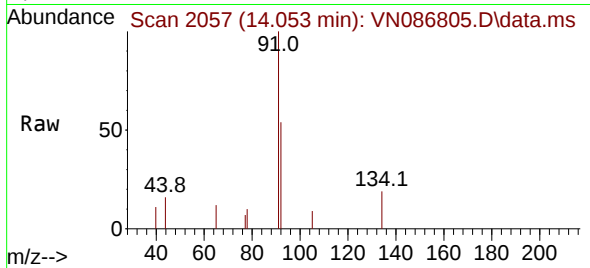




#85
n-Butylbenzene
Concen: 0.307 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

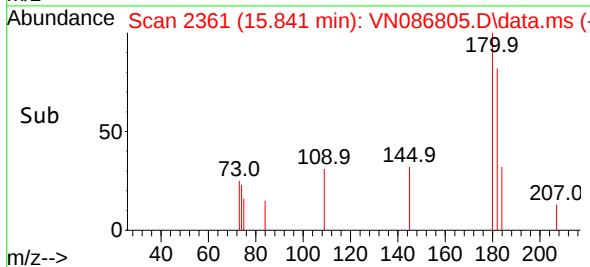
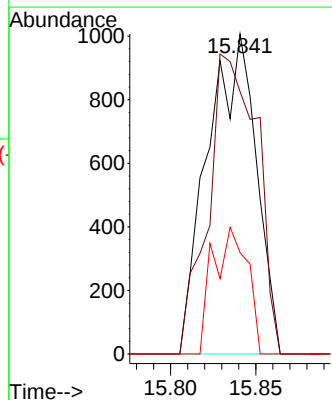
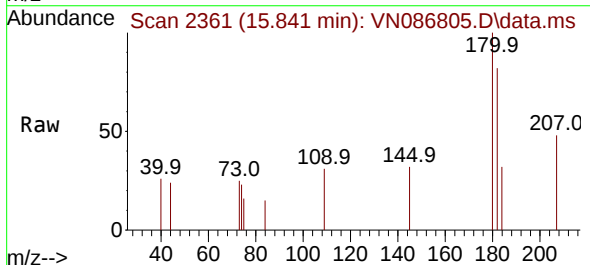
Instrument :
MSVOA_N
ClientSampleId :
IBLK

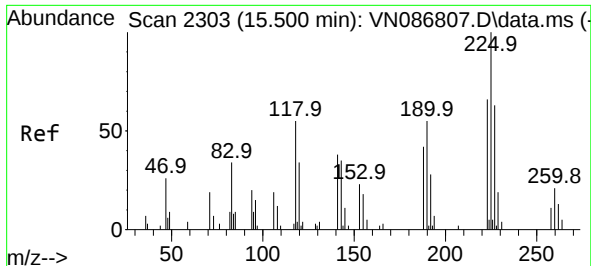
Tgt Ion: 91	Resp:	3396
Ion Ratio	Lower	Upper
91	100	
92	52.2	0.0 107.6
134	18.7	0.0 50.0



#89
1,2,4-Trichlorobenzene
Concen: 0.675 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

Tgt Ion: 180	Resp:	1997
Ion Ratio	Lower	Upper
180	100	
182	77.8	78.2 117.2#
145	28.0	28.0 42.0

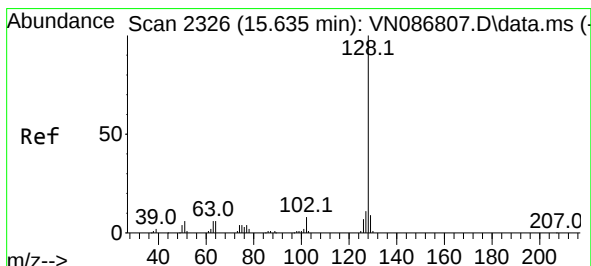
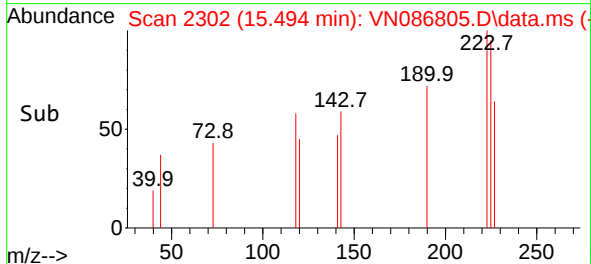
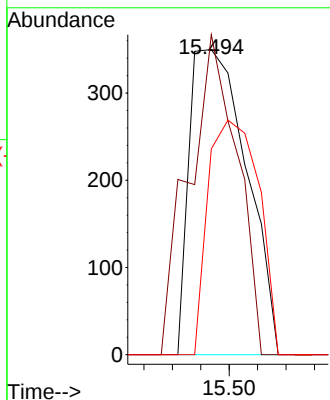
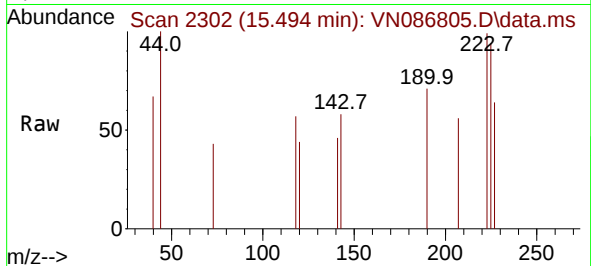




#90
Hexachlorobutadiene
Concen: 0.387 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

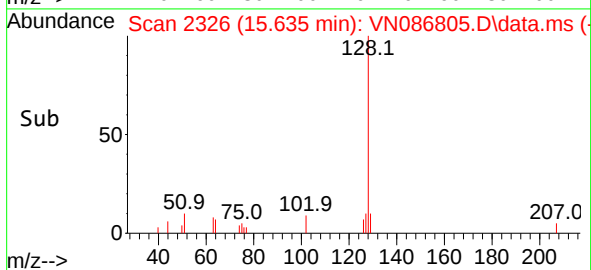
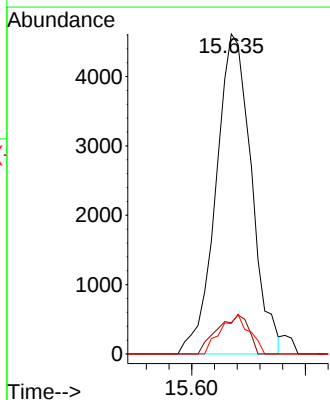
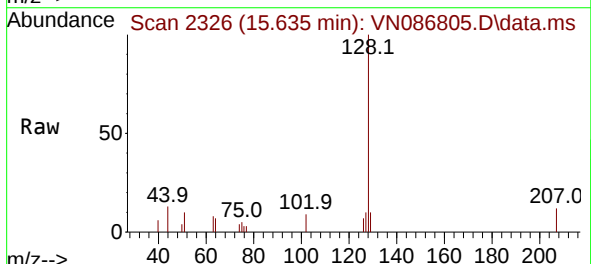
Instrument :
MSVOA_N
ClientSampleId :
IBLK

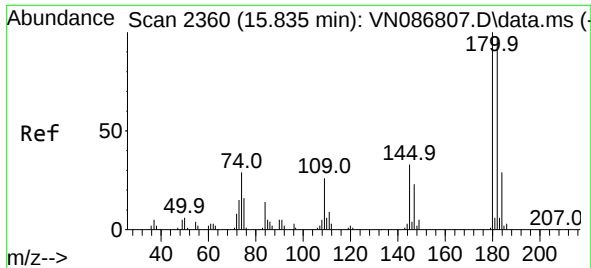
Tgt Ion:225 Resp: 490
Ion Ratio Lower Upper
225 100
223 88.8 0.0 135.8
227 68.0 0.0 125.0



#91
Naphthalene
Concen: 0.968 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086805.D
Acq: 29 May 2025 10:32

Tgt Ion:128 Resp: 9989
Ion Ratio Lower Upper
128 100
127 10.8 9.8 14.6
129 9.9 8.6 13.0





#92

1,2,3-Trichlorobenzene

Concen: 0.675 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086805.D

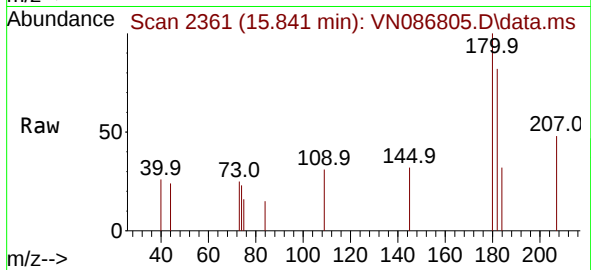
Acq: 29 May 2025 10:32

Instrument :

MSVOA_N

ClientSampleId :

IBLK



Tgt Ion:180 Resp: 1997

Ion Ratio Lower Upper

180 100

182 77.8 0.0 195.4

145 28.0 0.0 70.0

