

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086878.D
 Acq On : 06 Jun 2025 19:51
 Operator : JC\MD
 Sample : Q2216-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3864

Quant Time: Jun 07 02:29:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	257752	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	446881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378778	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	177504	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	157044	45.507	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.020%
35) Dibromofluoromethane	8.177	113	128636	48.573	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.140%
50) Toluene-d8	10.571	98	540140	51.520	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.040%
62) 4-Bromofluorobenzene	12.847	95	185076	47.515	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.020%

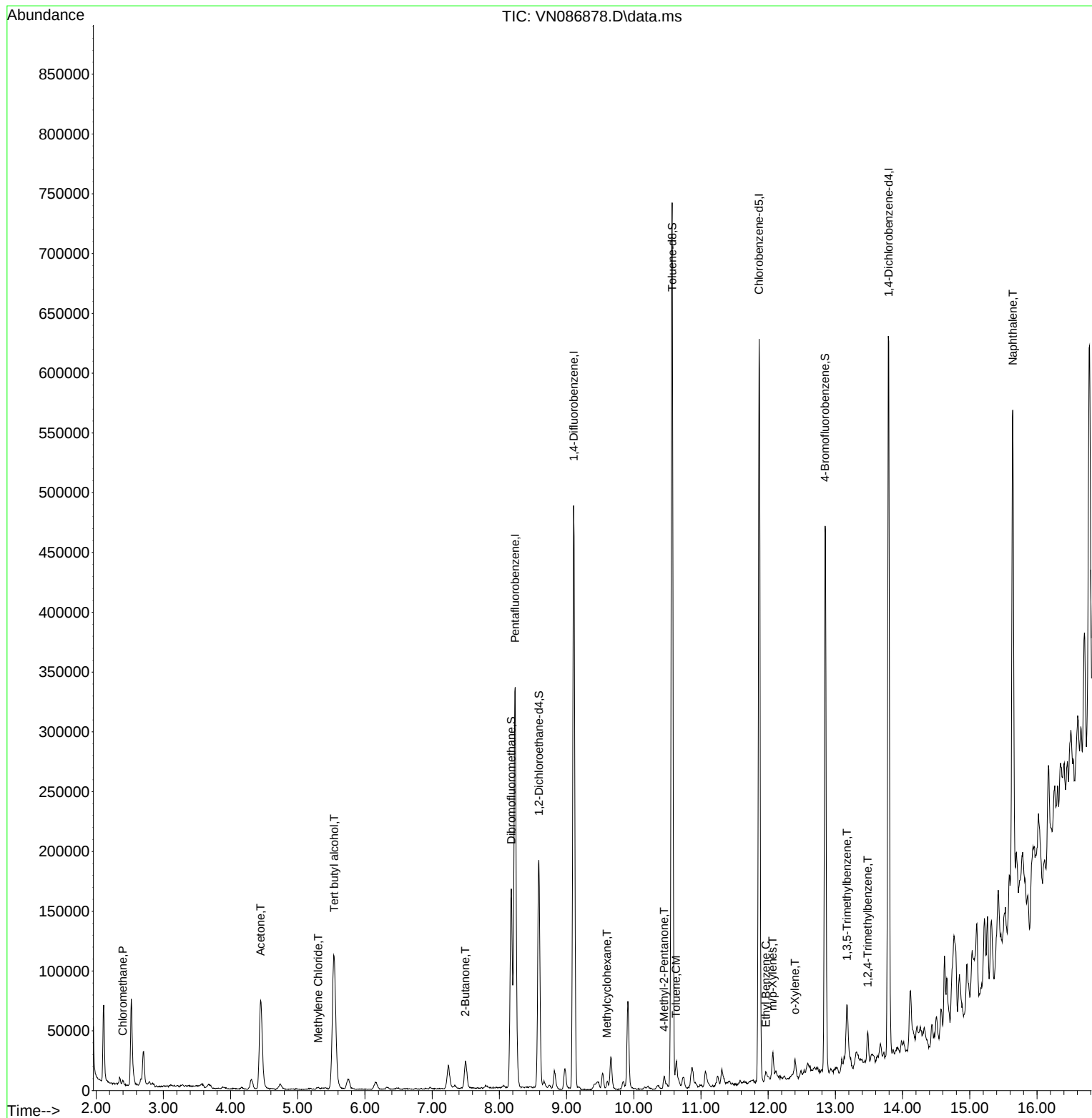
Target Compounds						Qvalue
3) Chloromethane	2.395	50	3981	1.200	ug/l	100
11) Tert butyl alcohol	5.541	59	244031	260.606	ug/l	100
16) Acetone	4.447	43	148511	81.149	ug/l	99
20) Methylene Chloride	5.306	84	1389	0.405	ug/l #	76
25) 2-Butanone	7.494	43	39875	13.404	ug/l	96
39) Methylcyclohexane	9.600	83	2879	0.533	ug/l	85
51) 4-Methyl-2-Pentanone	10.453	43	8519	1.755	ug/l	98
52) Toluene	10.629	92	9910	1.257	ug/l	100
67) Ethyl Benzene	11.965	91	4358	0.303	ug/l	95
68) m/p-Xylenes	12.065	106	5938	1.078	ug/l	96
69) o-Xylene	12.400	106	2714	0.514	ug/l	70
80) 1,3,5-Trimethylbenzene	13.170	105	6134	0.575	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	15810	1.477	ug/l	92
95) Naphthalene	15.641	128	462560	34.717	ug/l	100

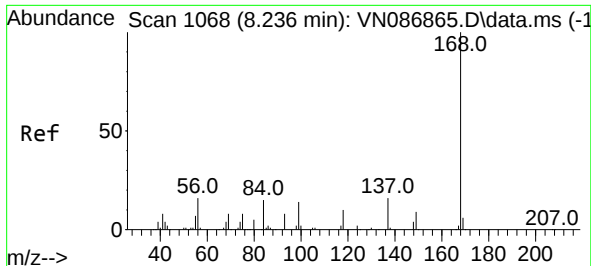
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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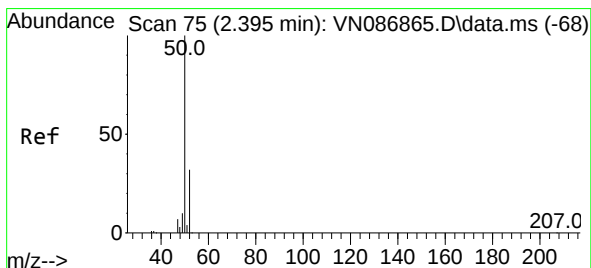
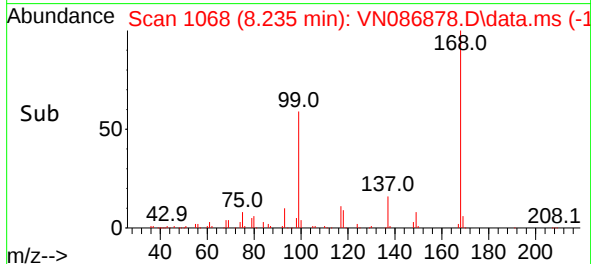
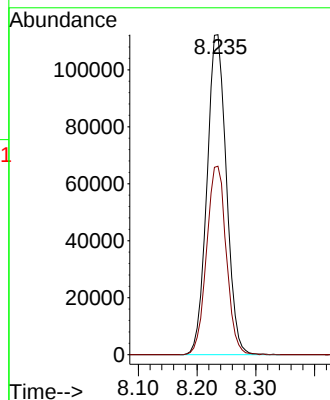
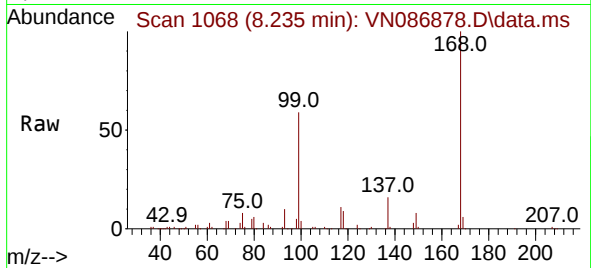




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

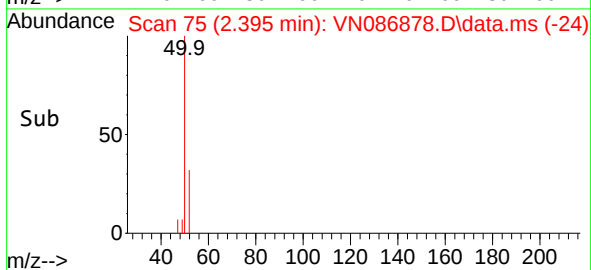
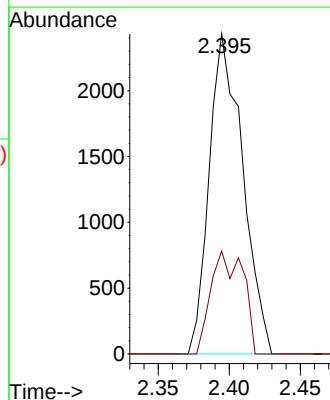
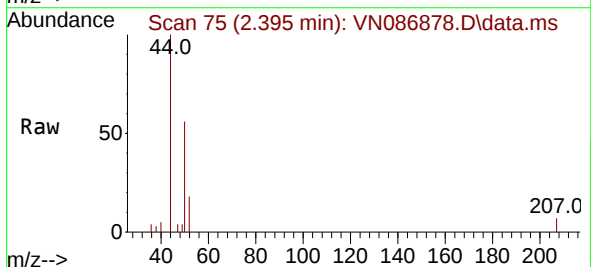
Instrument :
MSVOA_N
ClientSampleId :
3864

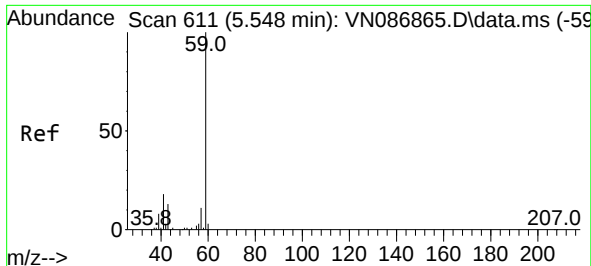
Tgt Ion:168 Resp: 257752
Ion Ratio Lower Upper
168 100
99 58.9 49.1 73.7



#3
Chloromethane
Concen: 1.200 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

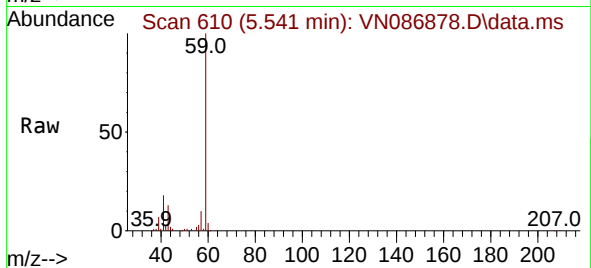
Tgt Ion: 50 Resp: 3981
Ion Ratio Lower Upper
50 100
52 32.2 25.7 38.5



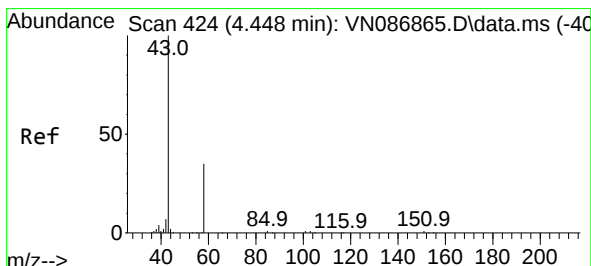
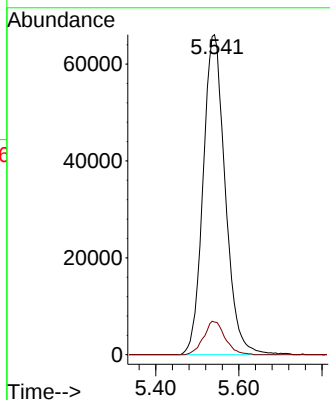
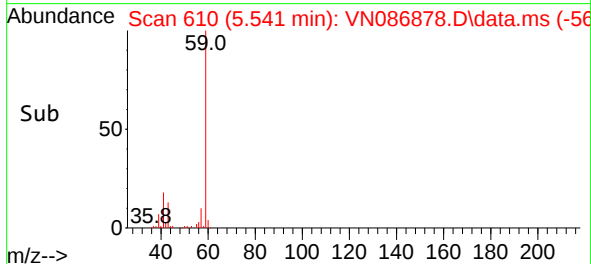


#11
Tert butyl alcohol
Concen: 260.606 ug/l
RT: 5.541 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Instrument :
MSVOA_N
ClientSampleId :
3864

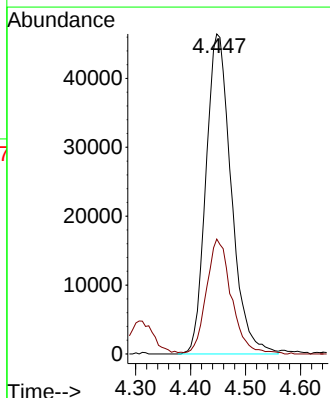
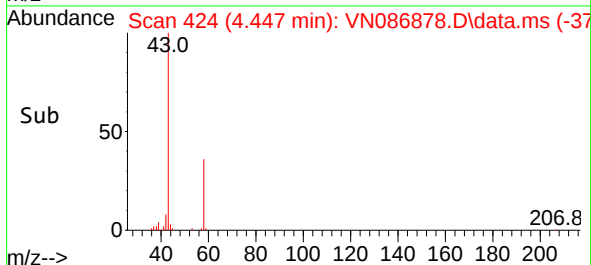
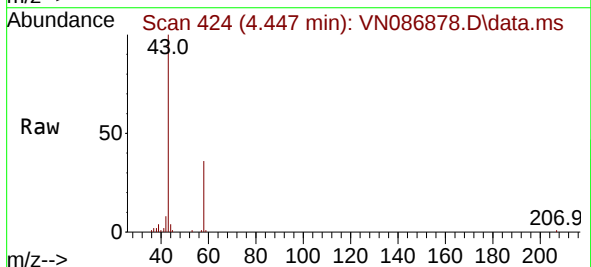


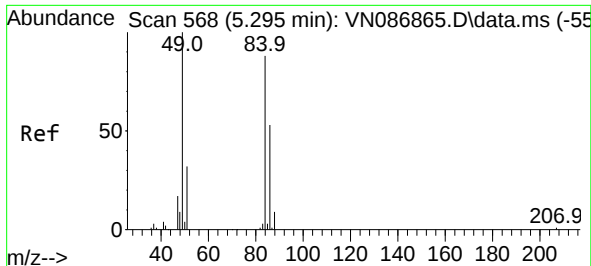
Tgt Ion: 59 Resp: 244031
Ion Ratio Lower Upper
59 100
57 10.1 8.1 12.1



#16
Acetone
Concen: 81.149 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion: 43 Resp: 148511
Ion Ratio Lower Upper
43 100
58 35.5 28.0 42.0

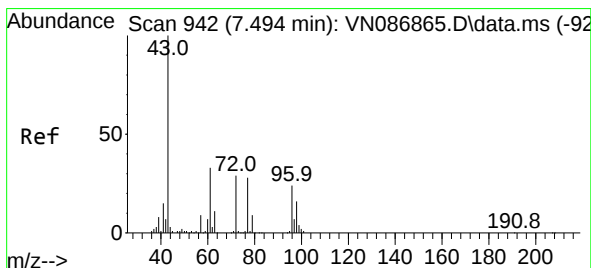
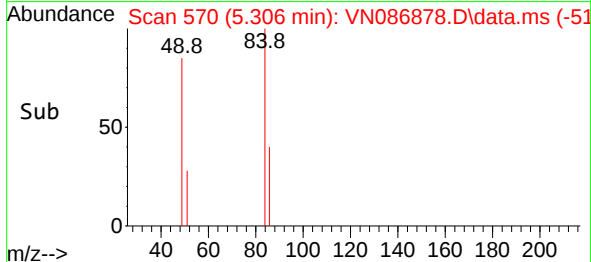
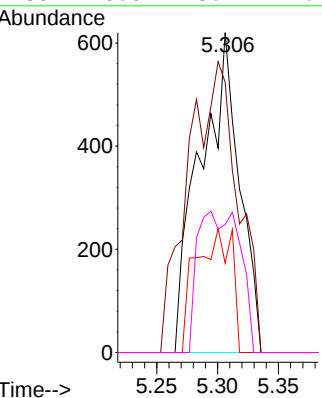
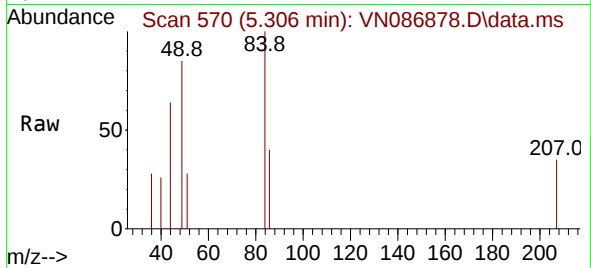




#20
Methylene Chloride
Concen: 0.405 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

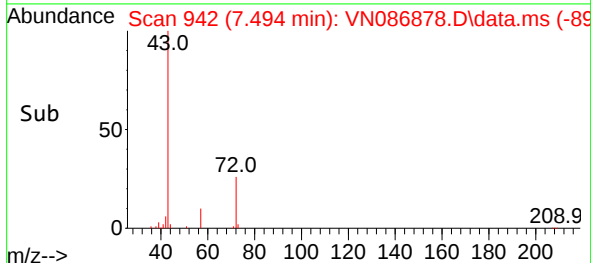
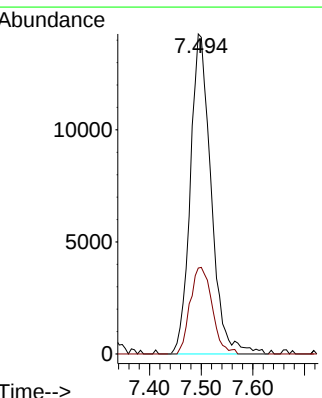
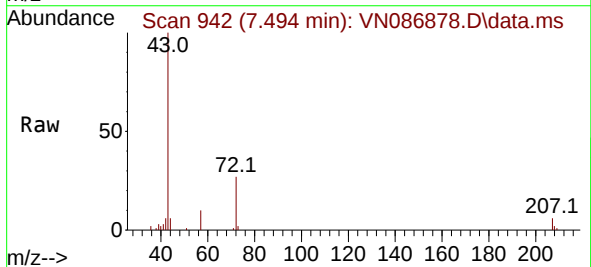
Instrument :
MSVOA_N
ClientSampleId :
3864

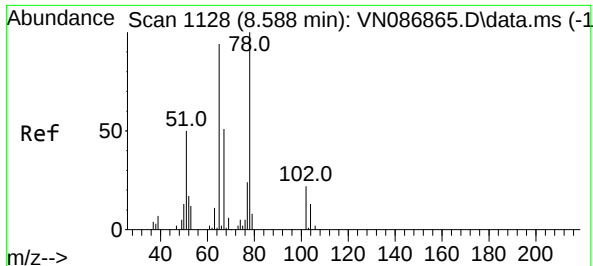
Tgt Ion:	84	Resp:	1389
Ion	Ratio	Lower	Upper
84	100		
49	84.5	90.5	135.7#
51	27.9	28.5	42.7#
86	40.0	48.1	72.1#



#25
2-Butanone
Concen: 13.404 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion:	43	Resp:	39875
Ion	Ratio	Lower	Upper
43	100		
72	26.9	23.0	34.6





#33

1,2-Dichloroethane-d4

Concen: 45.507 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086878.D

Acq: 06 Jun 2025 19:51

Instrument :

MSVOA_N

ClientSampleId :

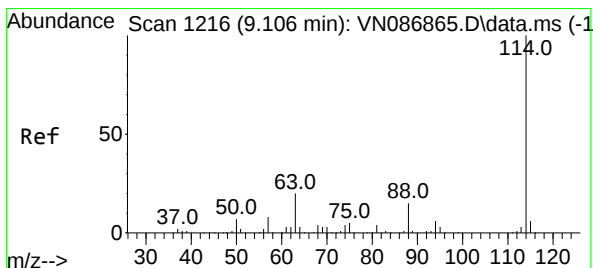
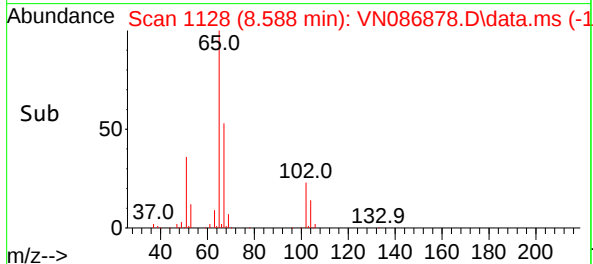
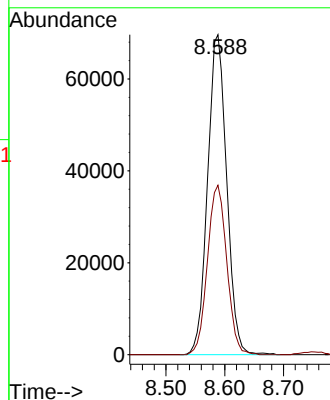
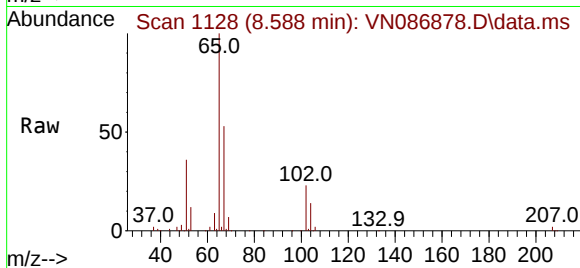
3864

Tgt Ion: 65 Resp: 157044

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086878.D

Acq: 06 Jun 2025 19:51

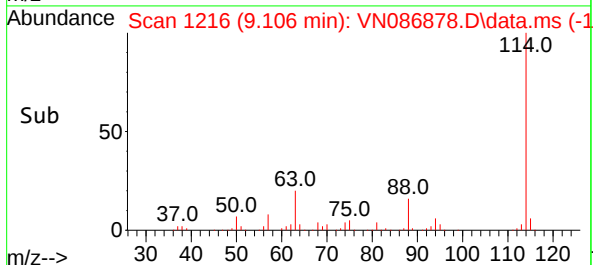
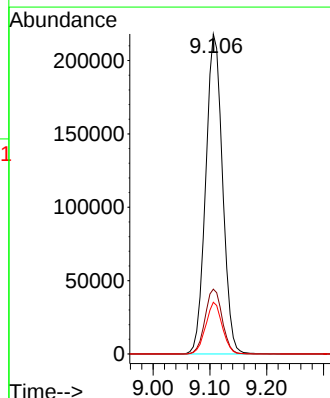
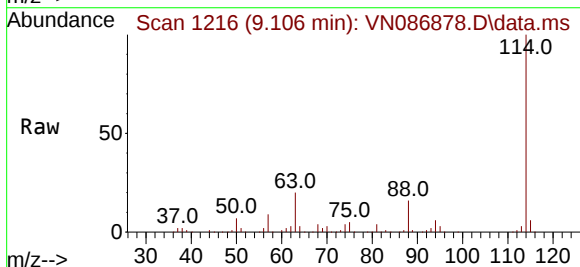
Tgt Ion: 114 Resp: 446881

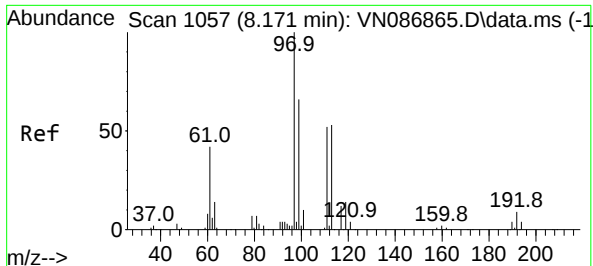
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 16.2 0.0 30.2

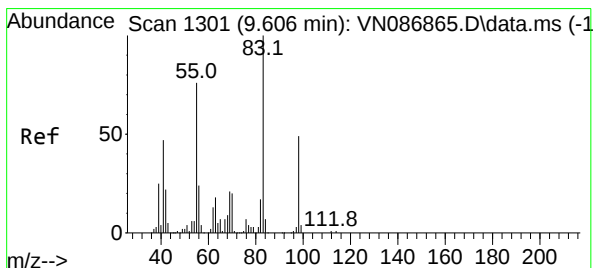
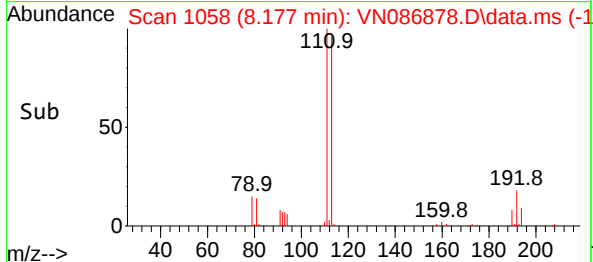
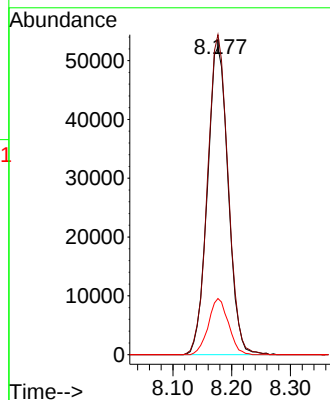
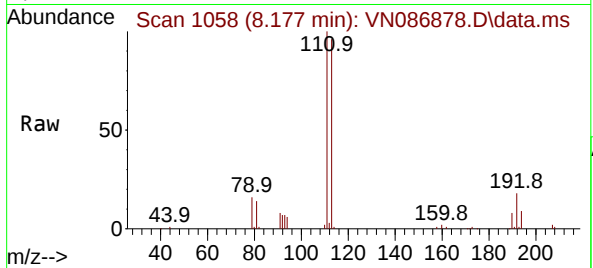




#35
Dibromofluoromethane
Concen: 48.573 ug/l
RT: 8.177 min Scan# 110
Delta R.T. 0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

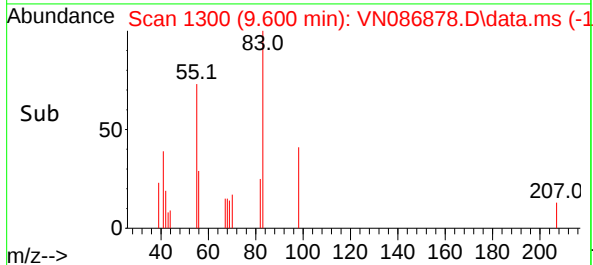
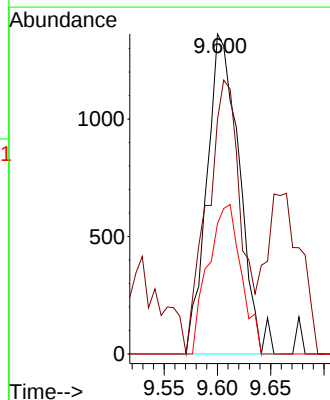
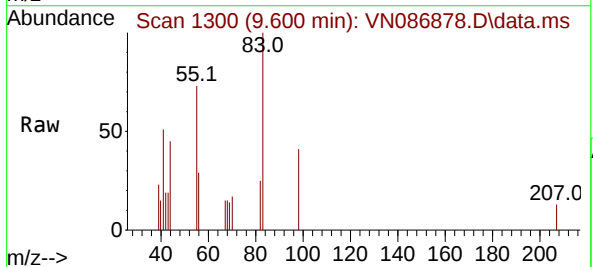
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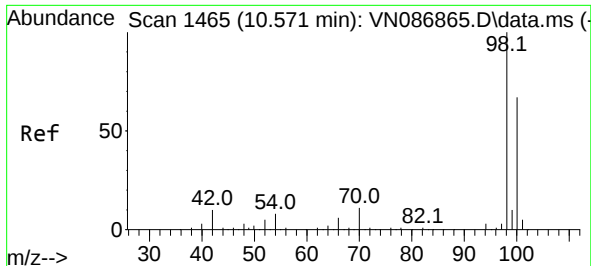
Tgt Ion:113 Resp: 128636
Ion Ratio Lower Upper
113 100
111 102.6 84.2 126.2
192 17.5 14.2 21.4



#39
Methylcyclohexane
Concen: 0.533 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion: 83 Resp: 2879
Ion Ratio Lower Upper
83 100
55 61.5 61.0 91.6
98 40.7 38.9 58.3

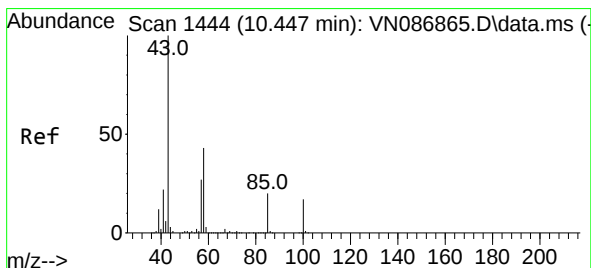
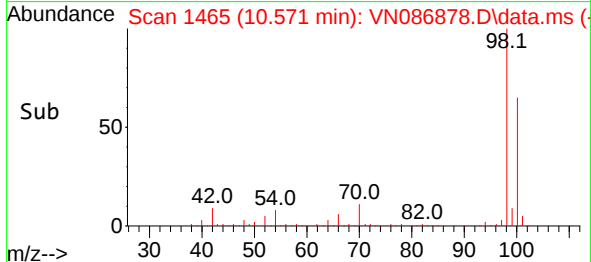
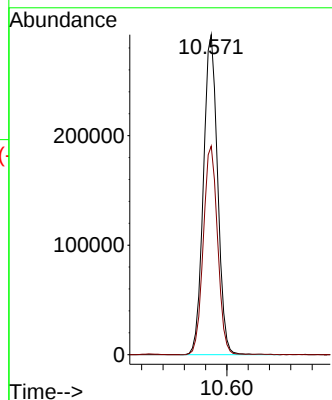
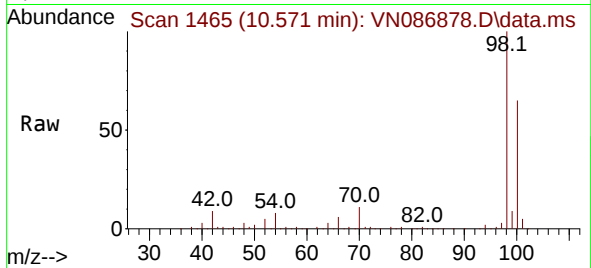




#50
Toluene-d8
Concen: 51.520 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

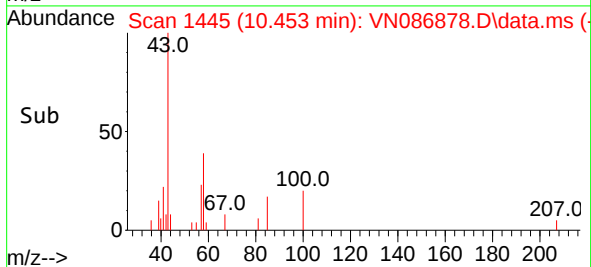
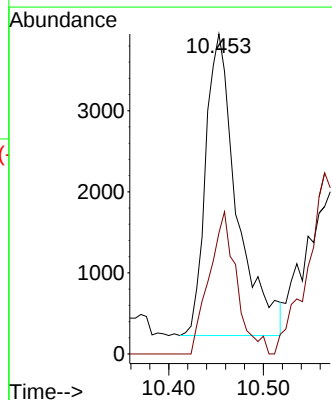
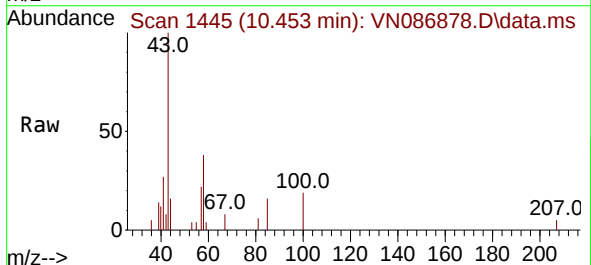
Instrument :
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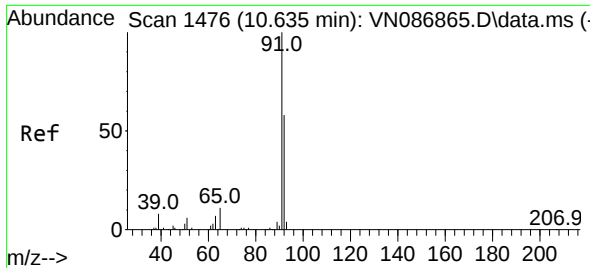
Tgt Ion: 98 Resp: 540140
Ion Ratio Lower Upper
98 100
100 65.5 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.755 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion: 43 Resp: 8519
Ion Ratio Lower Upper
43 100
58 41.4 34.2 51.4

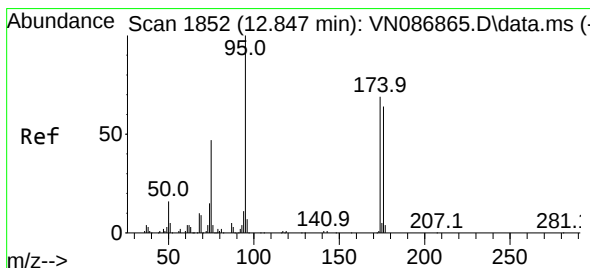
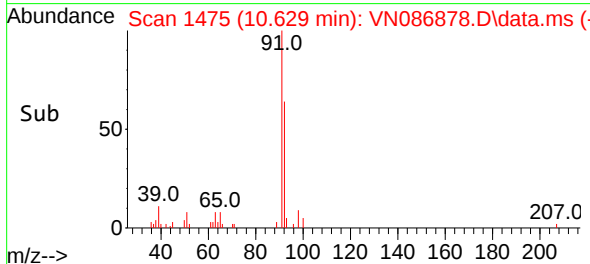
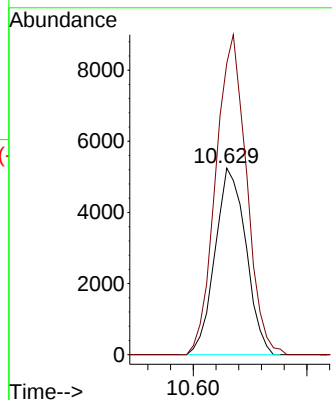
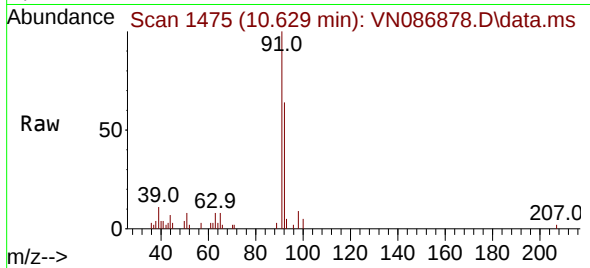




#52
Toluene
Concen: 1.257 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

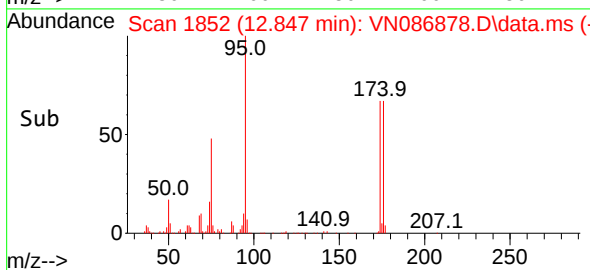
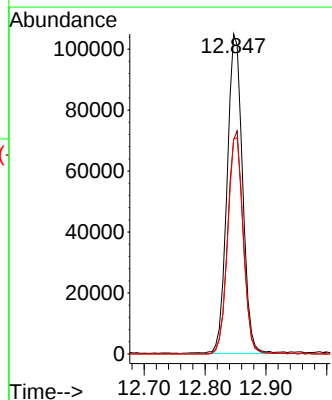
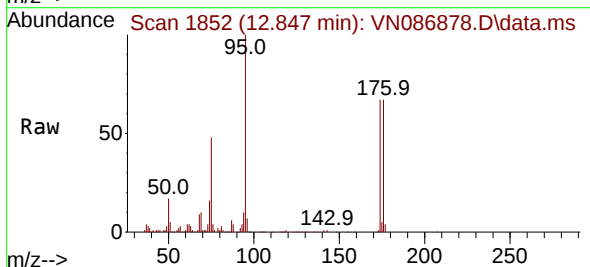
Instrument :
MSVOA_N
ClientSampleId :
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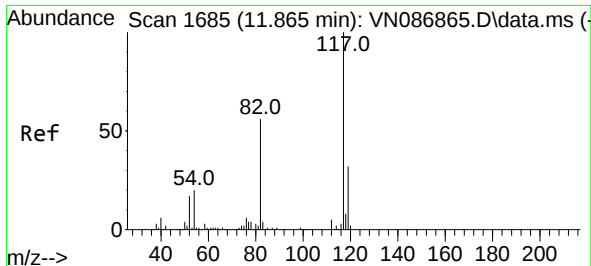
Tgt Ion: 92 Resp: 9910
Ion Ratio Lower Upper
92 100
91 170.7 136.5 204.7



#62
4-Bromofluorobenzene
Concen: 47.515 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion: 95 Resp: 185076
Ion Ratio Lower Upper
95 100
174 69.2 0.0 141.8
176 68.2 0.0 132.6

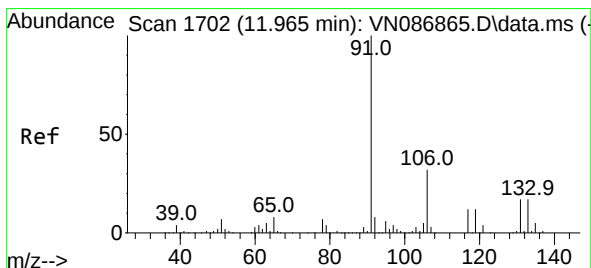
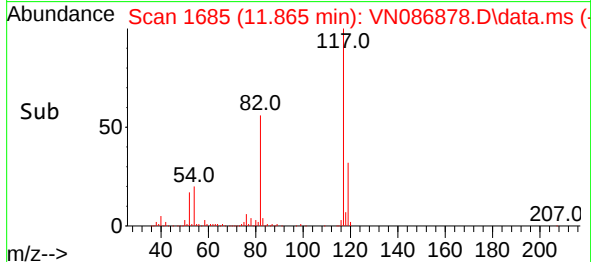
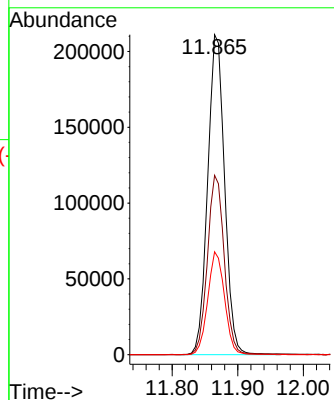
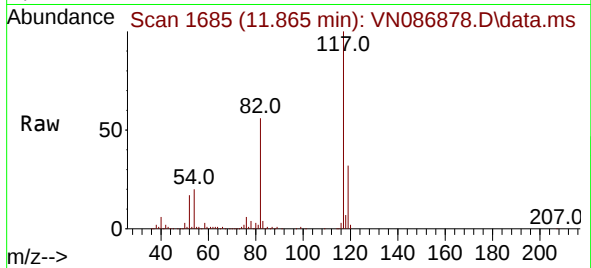




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

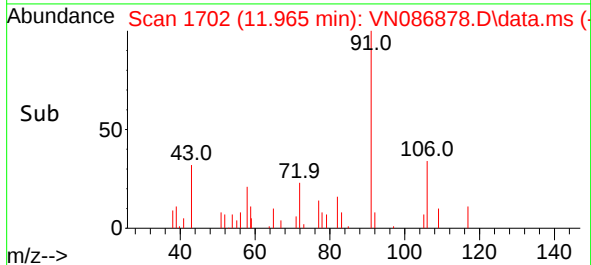
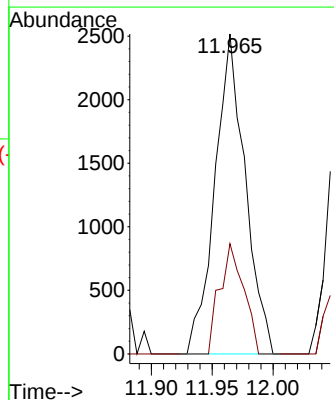
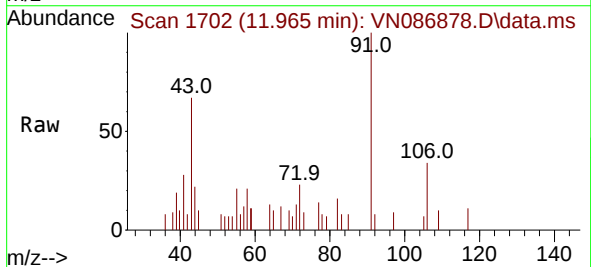
Instrument :
MSVOA_N
ClientSampleId :
3864

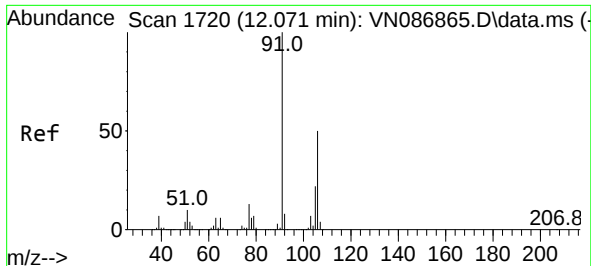
Tgt Ion:117 Resp: 378778
Ion Ratio Lower Upper
117 100
82 56.1 44.6 67.0
119 32.2 25.5 38.3



#67
Ethyl Benzene
Concen: 0.303 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion: 91 Resp: 4358
Ion Ratio Lower Upper
91 100
106 34.4 25.4 38.2

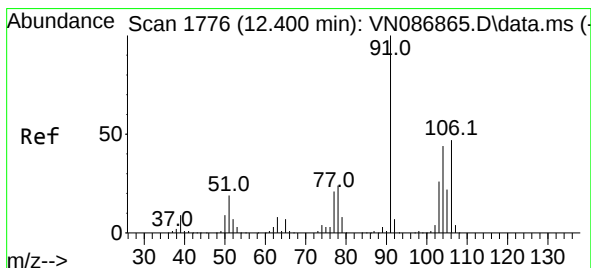
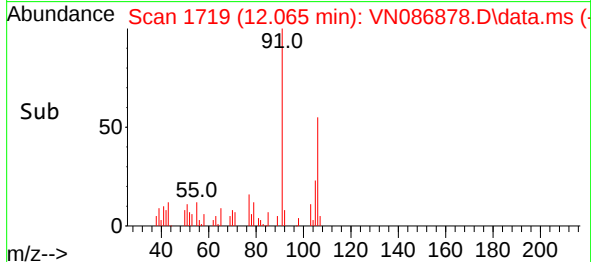
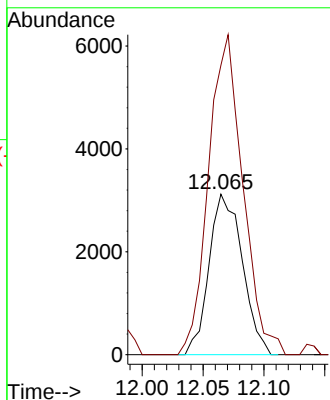
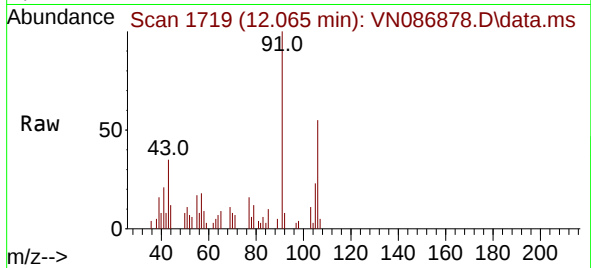




#68
m/p-Xylenes
Concen: 1.078 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

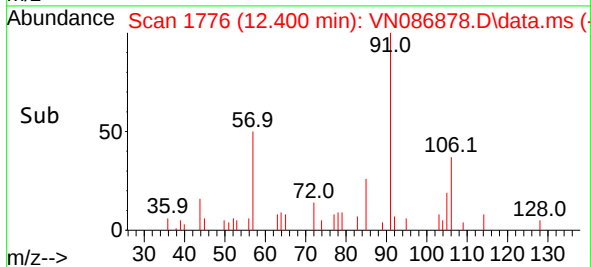
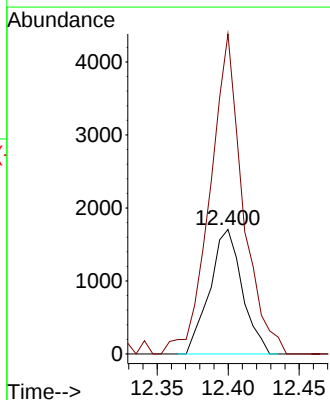
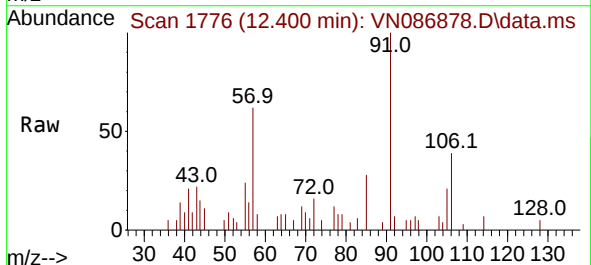
Instrument :
MSVOA_N
ClientSampleId :
3864

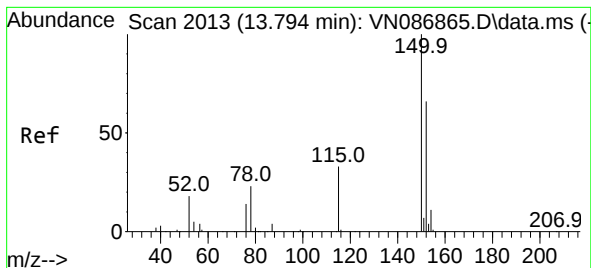
Tgt Ion:106 Resp: 5938
Ion Ratio Lower Upper
106 100
91 205.8 159.4 239.0



#69
o-Xylene
Concen: 0.514 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion:106 Resp: 2714
Ion Ratio Lower Upper
106 100
91 259.5 106.1 318.1

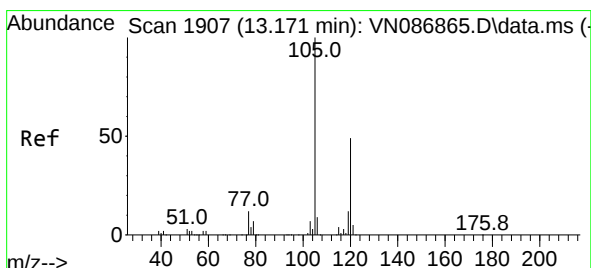
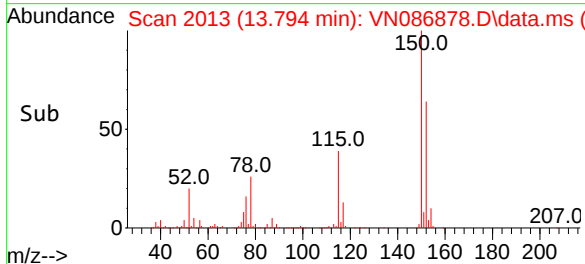
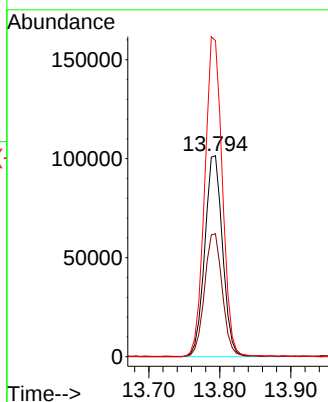
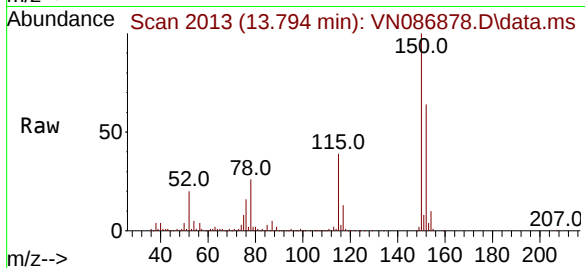




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

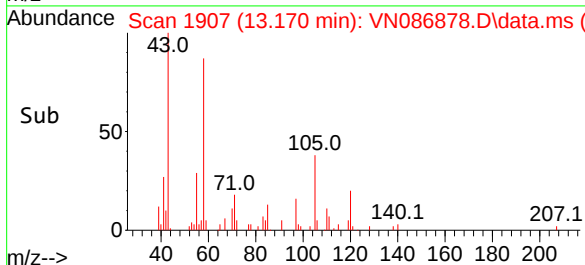
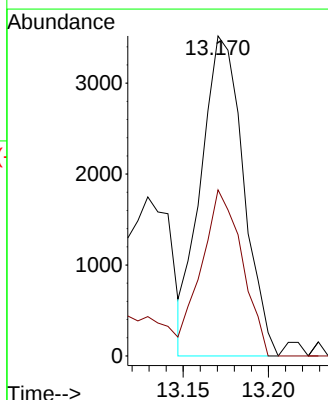
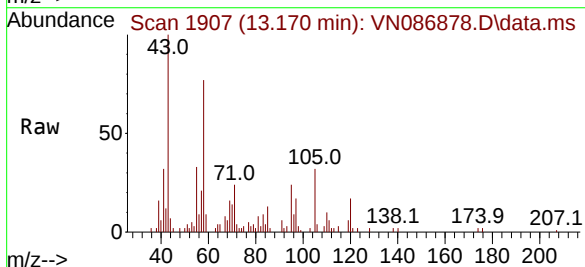
Instrument :
MSVOA_N
ClientSampleId :
3864

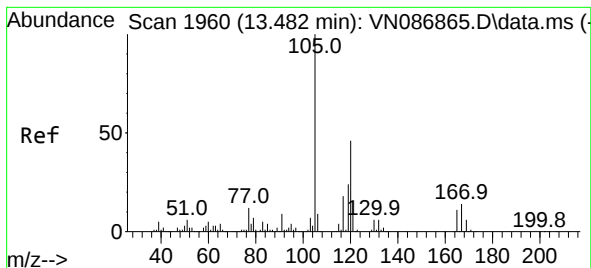
Tgt Ion:152 Resp: 177504
Ion Ratio Lower Upper
152 100
115 60.8 30.1 90.5
150 157.4 0.0 345.0



#80
1,3,5-Trimethylbenzene
Concen: 0.575 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086878.D
Acq: 06 Jun 2025 19:51

Tgt Ion:105 Resp: 6134
Ion Ratio Lower Upper
105 100
120 49.3 24.9 74.6





#84

1,2,4-Trimethylbenzene

Concen: 1.477 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN086878.D

Acq: 06 Jun 2025 19:51

Instrument :

MSVOA_N

ClientSampleId :

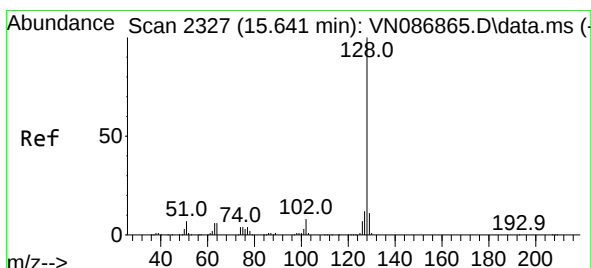
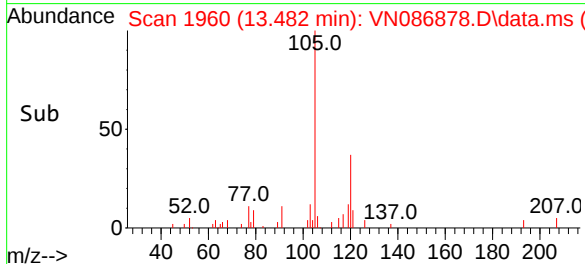
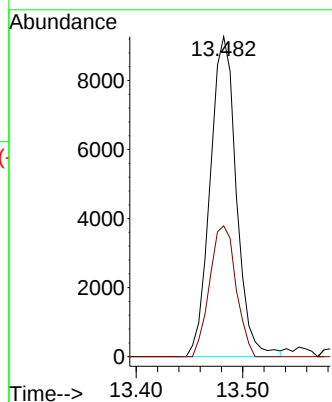
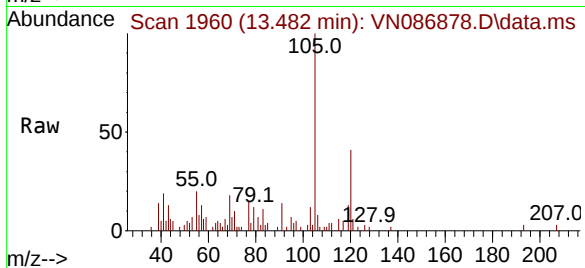
3864

Tgt Ion:105 Resp: 15810

Ion Ratio Lower Upper

105 100

120 41.0 23.2 69.6



#95

Naphthalene

Concen: 34.717 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN086878.D

Acq: 06 Jun 2025 19:51

Tgt Ion:128 Resp: 462560

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

129 11.2 8.8 13.2

