

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042524\
 Data File : VN081857.D
 Acq On : 25 Apr 2024 17:52
 Operator : JC\MD
 Sample : P2257-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 413A

Quant Time: Apr 26 05:38:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

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

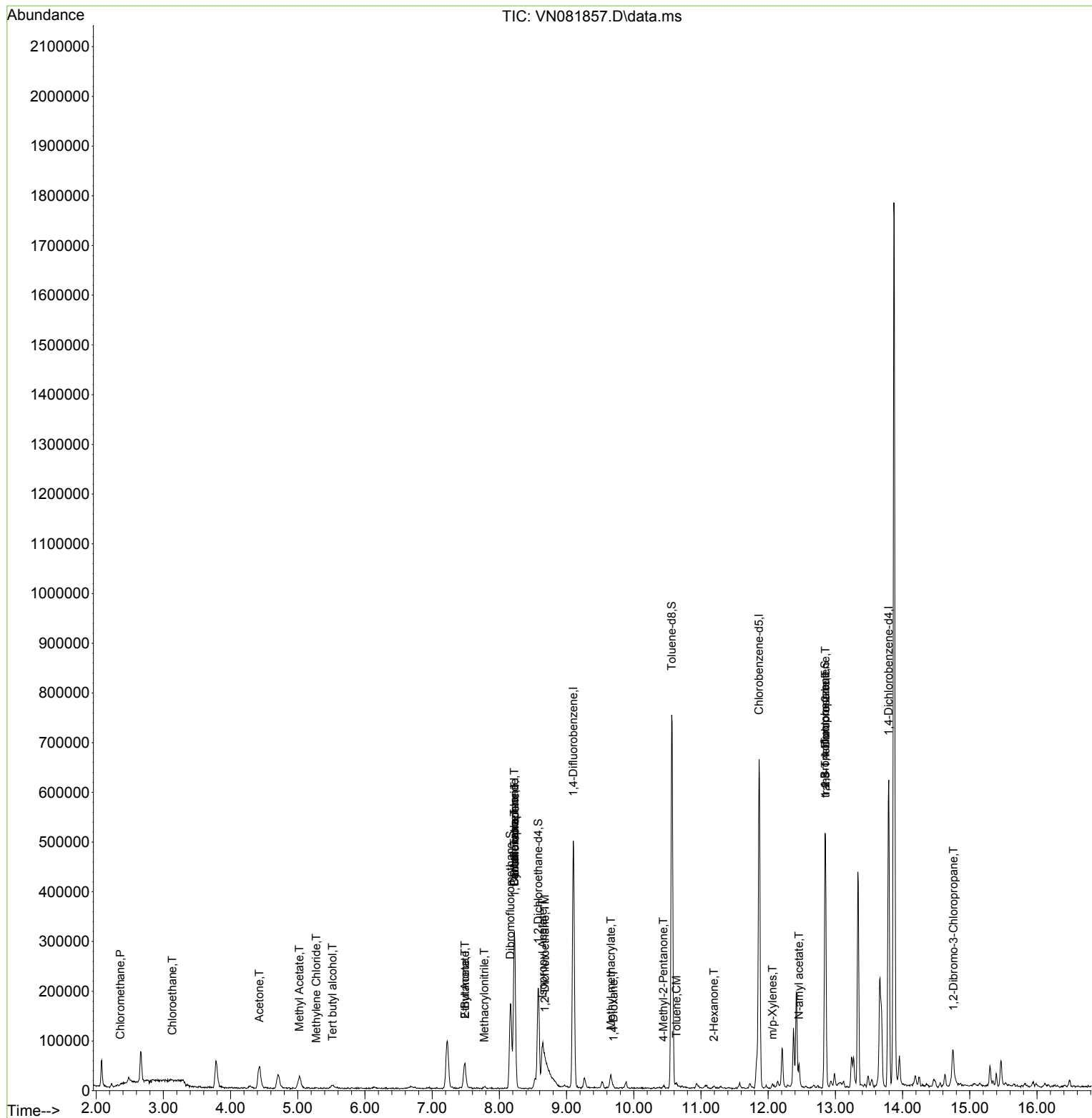
Internal Standards						
1) Pentafluorobenzene	8.224	168	217105	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	406464	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	350961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	148210	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	168249	45.918	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.840%
35) Dibromofluoromethane	8.165	113	120365	49.184	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.360%
50) Toluene-d8	10.565	98	499383	51.957	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.920%
62) 4-Bromofluorobenzene	12.847	95	188425	49.593	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	99.180%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1258	0.396	ug/l #	86
5) Bromomethane	2.953	94	509	Below Cal	#	10
6) Chloroethane	3.136	64	634	0.436	ug/l #	61
11) Tert butyl alcohol	5.518	59	11394	17.105	ug/l #	88
13) Acrolein	4.189	56	1578	Below Cal	#	42
16) Acetone	4.430	43	86838	76.346	ug/l	96
18) Methyl Acetate	5.024	43	48126	12.967	ug/l	94
20) Methylene Chloride	5.277	84	685	0.218	ug/l #	65
25) 2-Butanone	7.488	43	82519	39.679	ug/l	90
31) Cyclohexane	8.224	56	7143	1.294	ug/l #	36
36) 1,1-Dichloropropene	8.230	75	20678	5.194	ug/l #	48
37) Ethyl Acetate	7.488	43	82519	19.169	ug/l #	68
38) Carbon Tetrachloride	8.224	117	23388	6.010	ug/l #	15
41) Methacrylonitrile	7.777	41	781	0.284	ug/l #	56
42) 1,2-Dichloroethane	8.677	62	911	0.205	ug/l	91
43) Isopropyl Acetate	8.647	43	178285	22.027	ug/l #	53
48) Methyl methacrylate	9.659	41	7368	1.907	ug/l #	39
49) 1,4-Dioxane	9.700	88	773	13.162	ug/l #	28
51) 4-Methyl-2-Pentanone	10.441	43	3266	0.717	ug/l	98
52) Toluene	10.635	92	3569	0.499	ug/l	98
59) 2-Hexanone	11.194	43	3218	0.949	ug/l	76
68) m/p-Xylenes	12.065	106	1988	0.391	ug/l	97
74) N-amyl acetate	12.459	43	25142	3.427	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	101039	26.293	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	101039	53.878	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	14.759	75	316	0.328	ug/l #	2

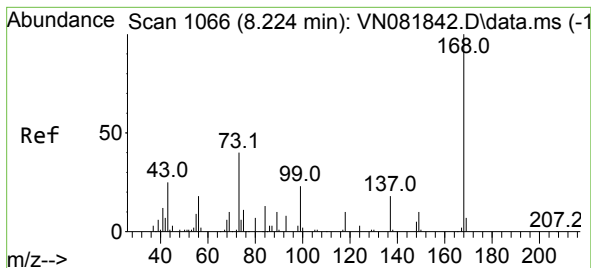
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

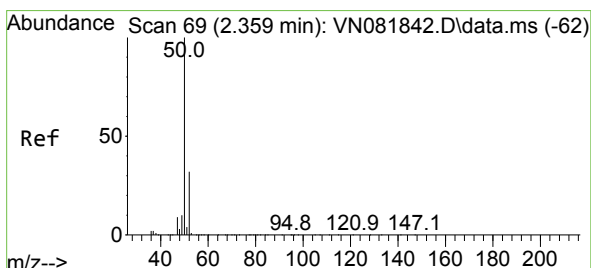
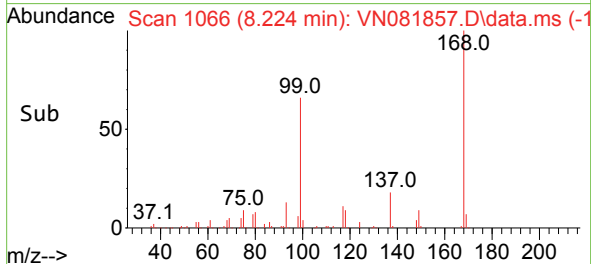
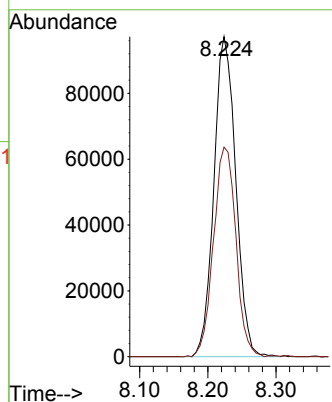
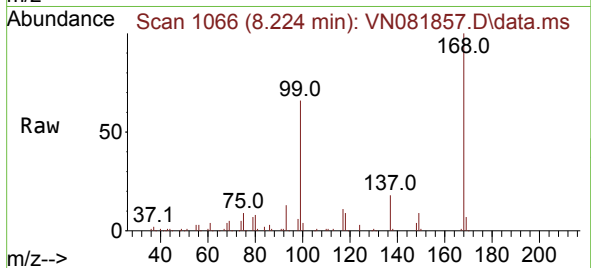
413A

Tgt Ion:168 Resp: 217105

Ion Ratio Lower Upper

168 100

99 65.5 48.2 72.4



#3

Chloromethane

Concen: 0.396 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN081857.D

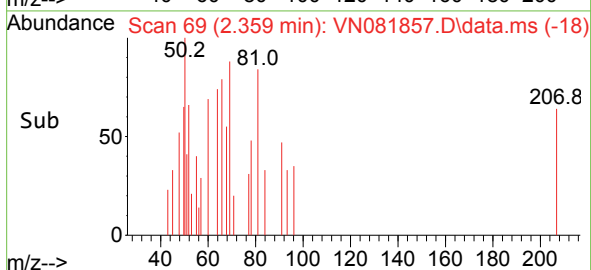
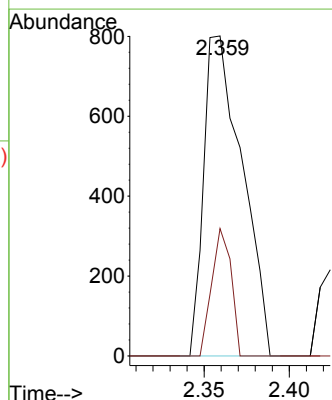
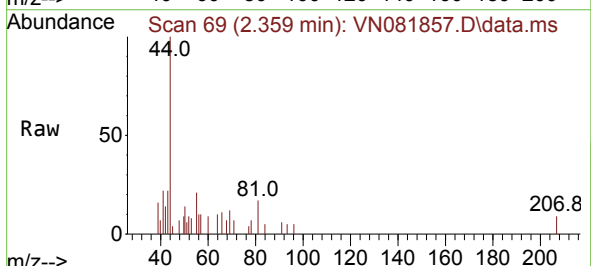
Acq: 25 Apr 2024 17:52

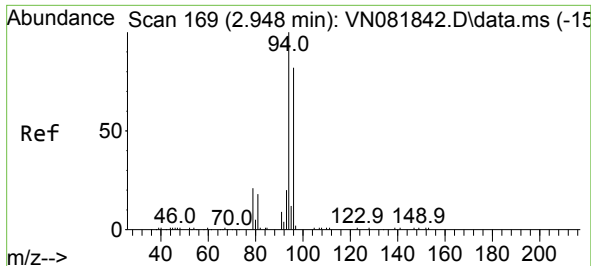
Tgt Ion: 50 Resp: 1258

Ion Ratio Lower Upper

50 100

52 39.8 25.5 38.3#

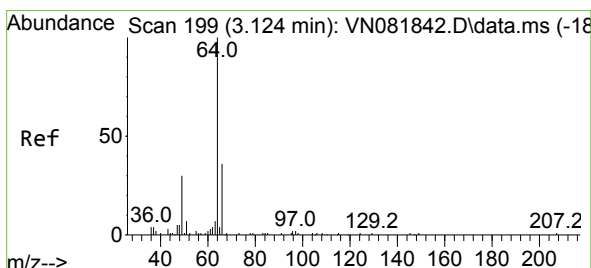
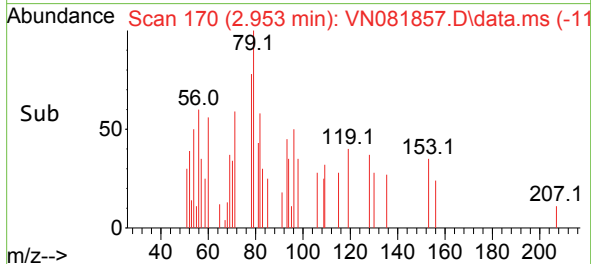
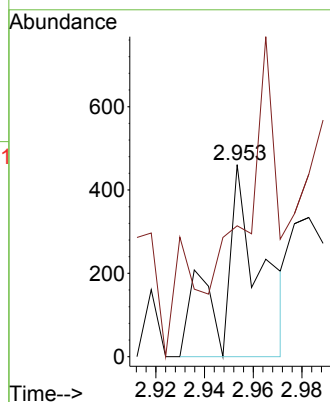
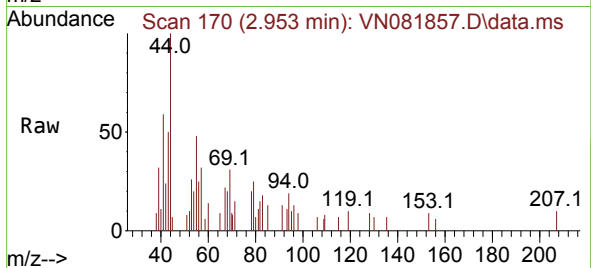




#5
Bromomethane
Concen: Below Cal
RT: 2.953 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

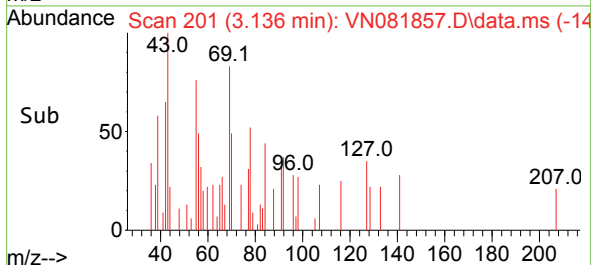
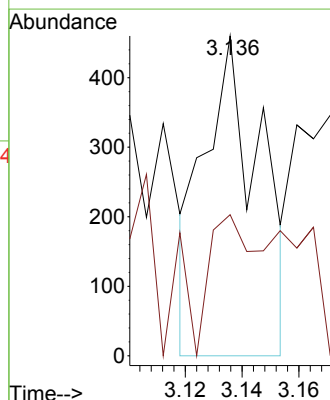
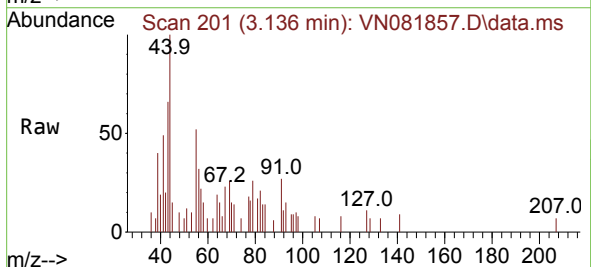
Instrument :
MSVOA_N
ClientSampleId :
413A

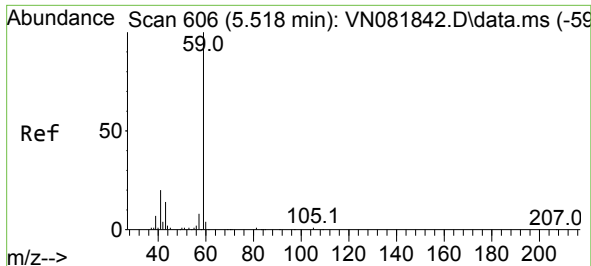
Tgt Ion: 94 Resp: 509
Ion Ratio Lower Upper
94 100
96 6.9 74.8 112.2#



#6
Chloroethane
Concen: 0.436 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 64 Resp: 634
Ion Ratio Lower Upper
64 100
66 9.6 24.7 37.1#

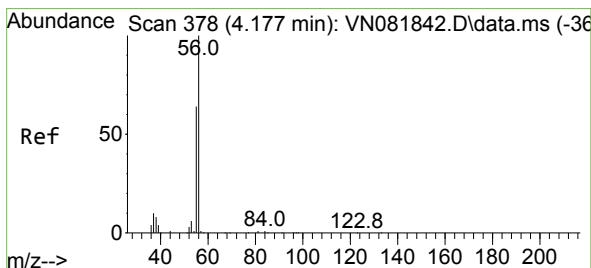
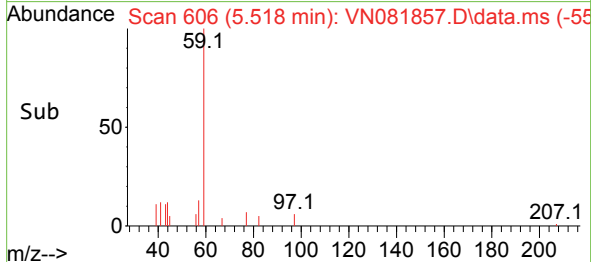
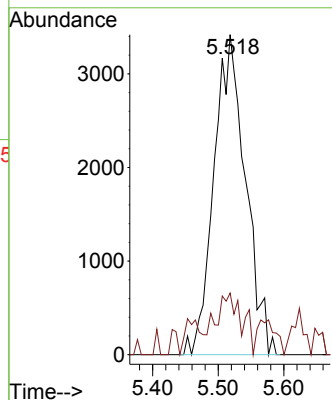
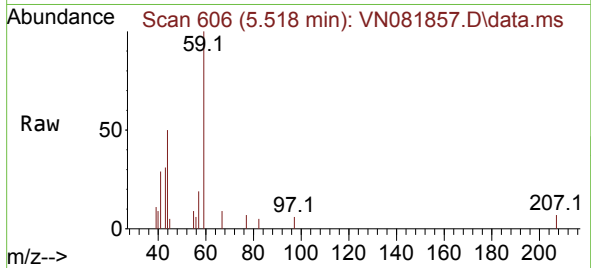




#11
Tert butyl alcohol
Concen: 17.105 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

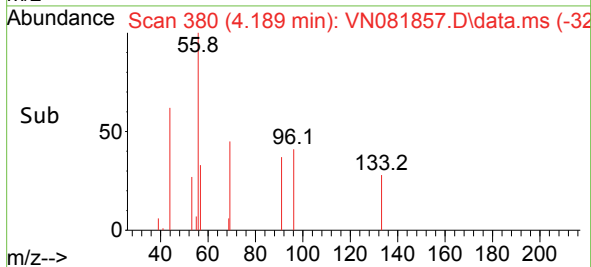
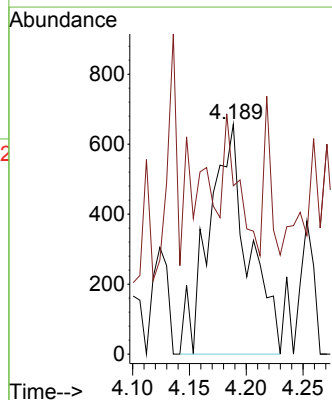
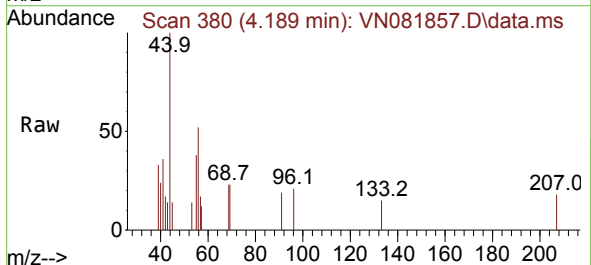
Instrument :
MSVOA_N
ClientSampleId :
413A

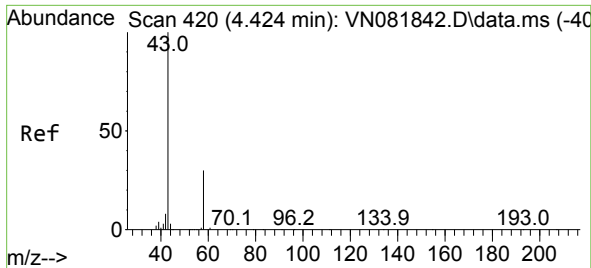
Tgt Ion: 59 Resp: 11394
Ion Ratio Lower Upper
59 100
57 15.6 8.9 13.3#



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 56 Resp: 1578
Ion Ratio Lower Upper
56 100
55 22.6 55.8 83.8#

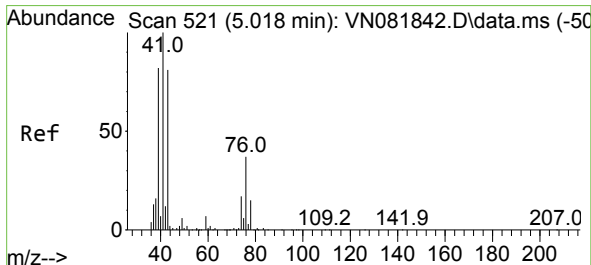
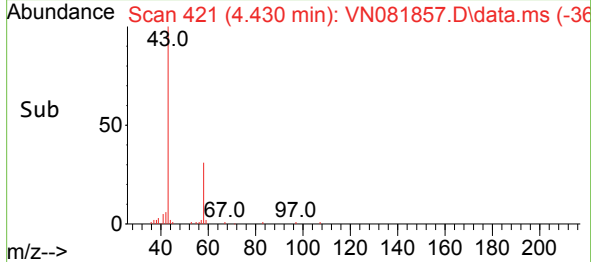
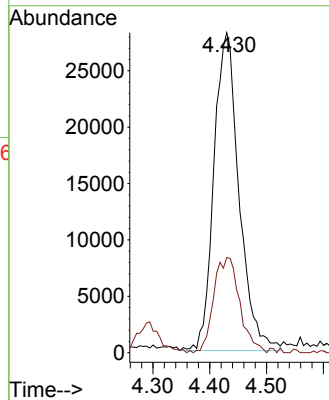
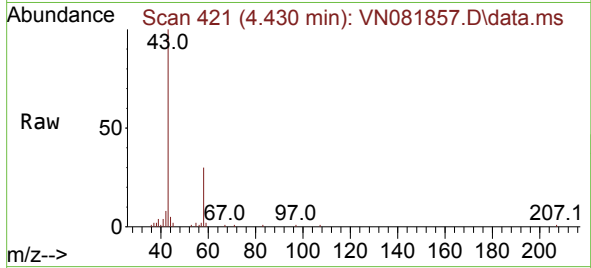




#16
Acetone
Concen: 76.346 ug/l
RT: 4.430 min Scan# 413
Delta R.T. 0.006 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

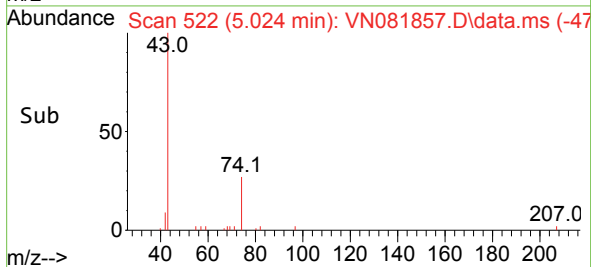
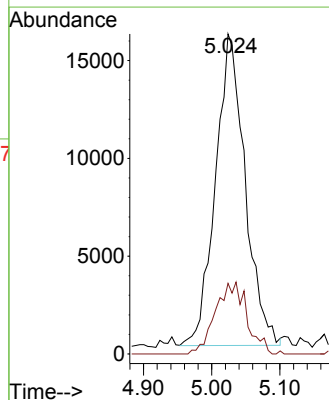
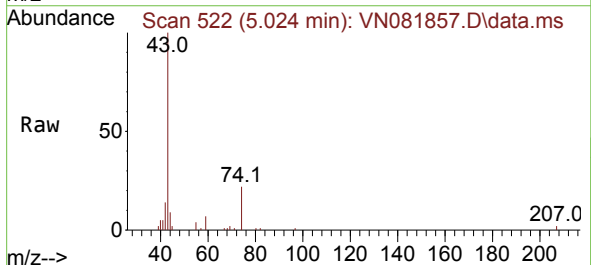
Instrument :
MSVOA_N
ClientSampleId :
413A

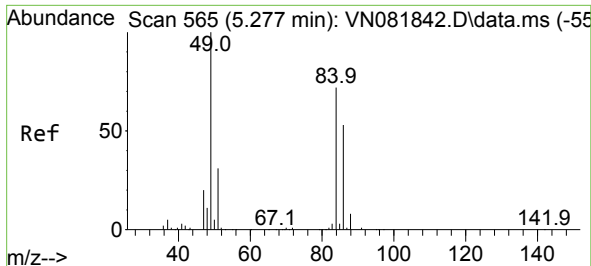
Tgt Ion: 43 Resp: 86838
Ion Ratio Lower Upper
43 100
58 29.2 25.2 37.8



#18
Methyl Acetate
Concen: 12.967 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 43 Resp: 48126
Ion Ratio Lower Upper
43 100
74 24.4 22.2 33.2

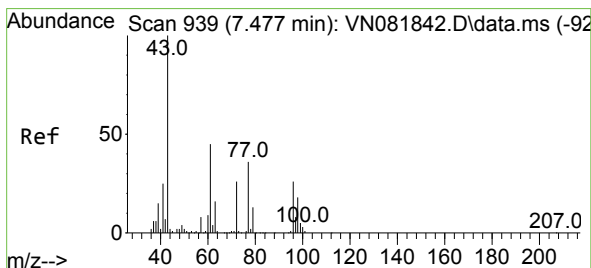
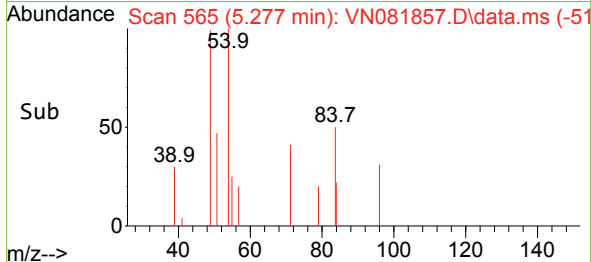
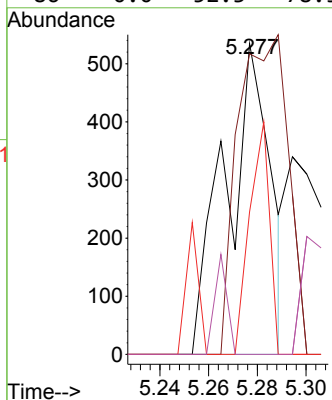
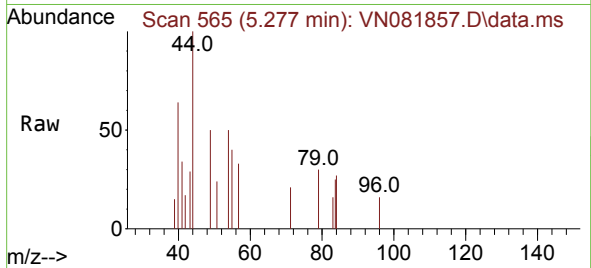




#20
Methylene Chloride
Concen: 0.218 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

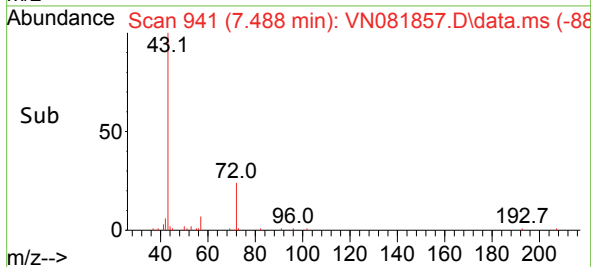
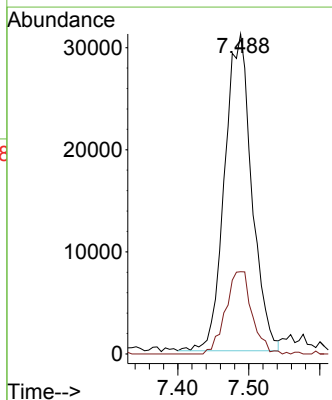
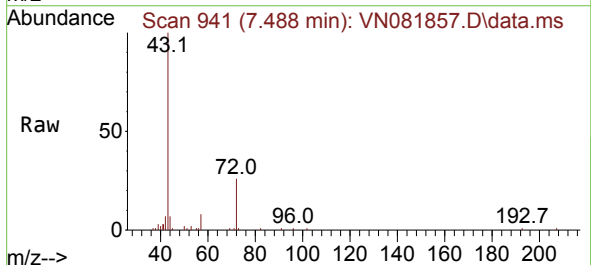
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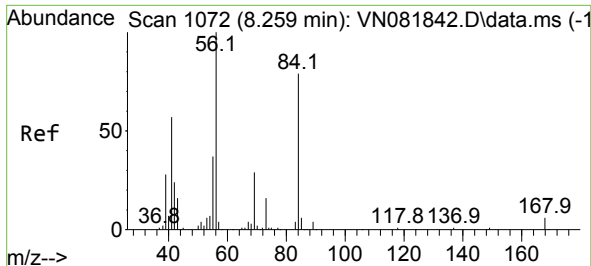
Tgt Ion:	84	Resp:	685
Ion	Ratio	Lower	Upper
84	100		
49	96.6	84.9	127.3
51	45.8	27.0	40.6#
86	0.0	52.3	78.5#



#25
2-Butanone
Concen: 39.679 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

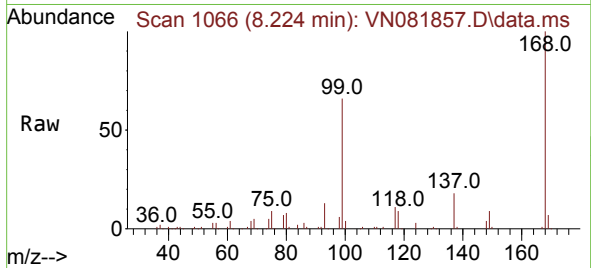
Tgt Ion:	43	Resp:	82519
Ion	Ratio	Lower	Upper
43	100		
72	26.0	25.3	37.9



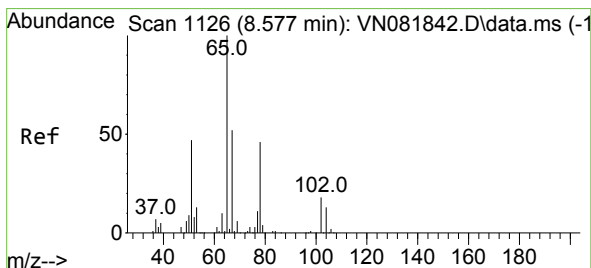
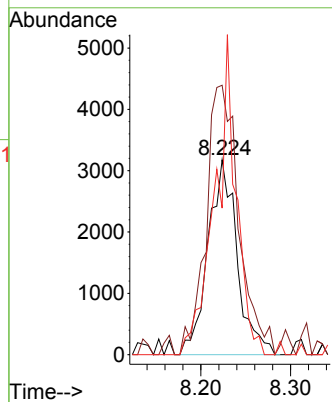
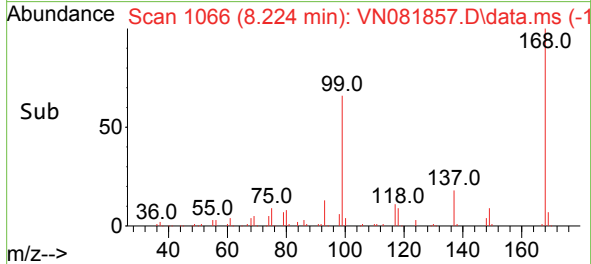


#31
Cyclohexane
Concen: 1.294 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
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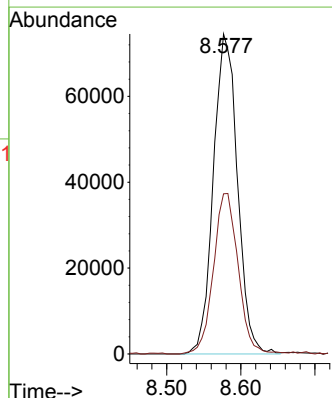
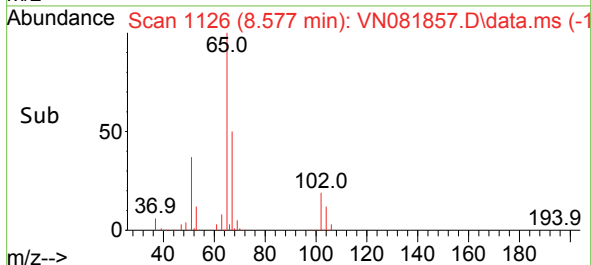
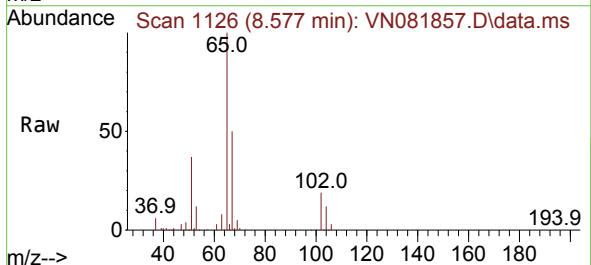


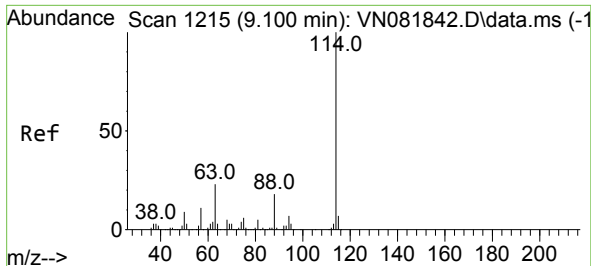
Tgt Ion: 56 Resp: 7143
Ion Ratio Lower Upper
56 100
69 138.2 24.4 36.6#
84 75.2 77.0 115.4#



#33
1,2-Dichloroethane-d4
Concen: 45.918 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 65 Resp: 168249
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

413A

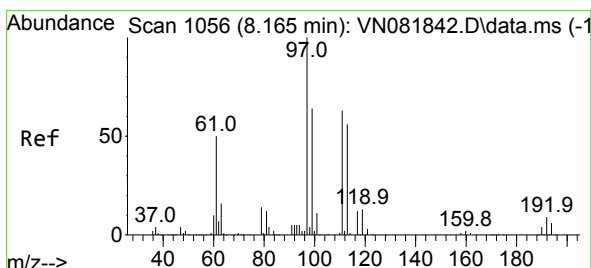
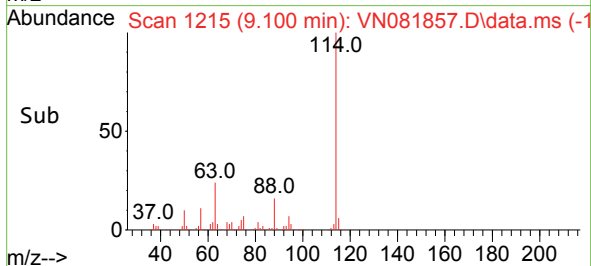
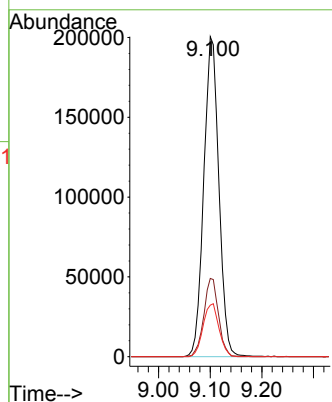
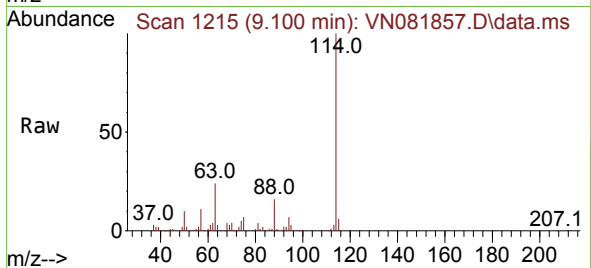
Tgt Ion:114 Resp: 406464

Ion Ratio Lower Upper

114 100

63 24.4 0.0 41.0

88 16.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 49.184 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

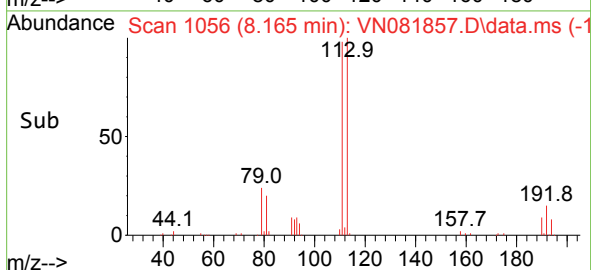
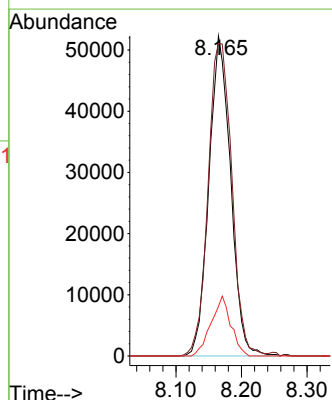
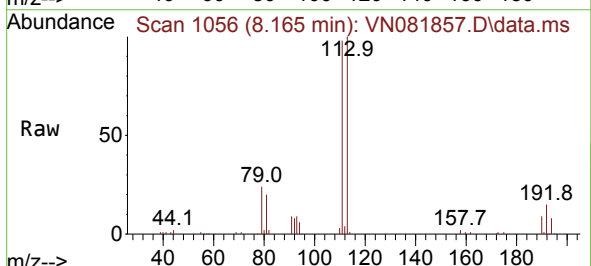
Tgt Ion:113 Resp: 120365

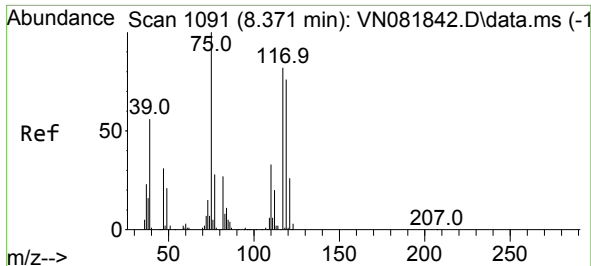
Ion Ratio Lower Upper

113 100

111 106.5 83.4 125.2

192 17.0 14.0 21.0





#36

1,1-Dichloropropene

Concen: 5.194 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

Lab File: VN081857.D

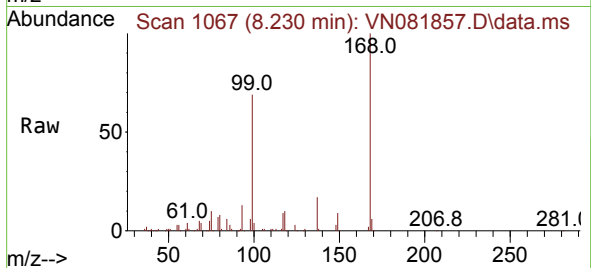
Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

413A



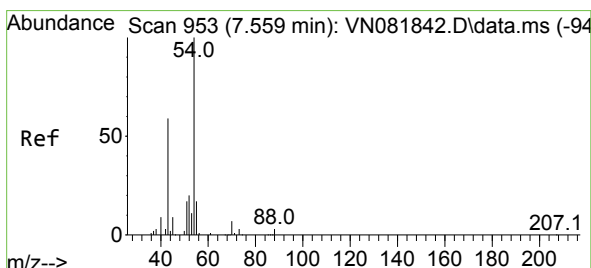
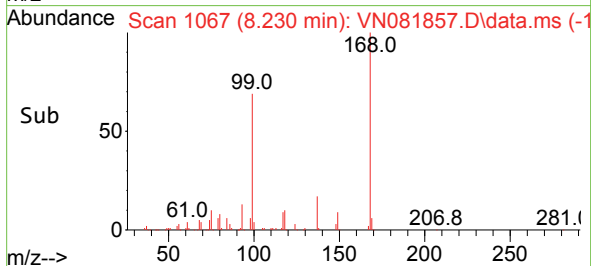
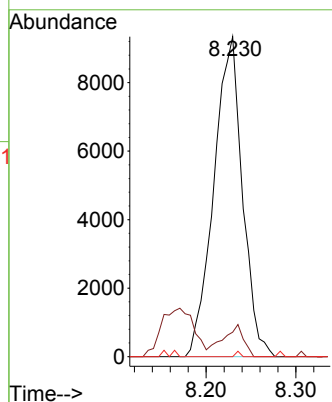
Tgt Ion: 75 Resp: 20678

Ion Ratio Lower Upper

75 100

110 7.3 17.8 53.5#

77 0.3 25.0 37.4#



#37

Ethyl Acetate

Concen: 19.169 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

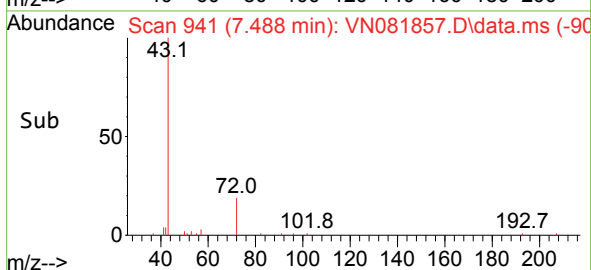
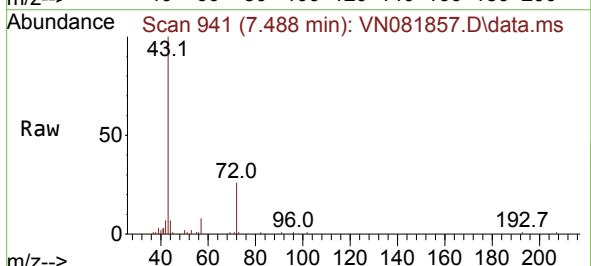
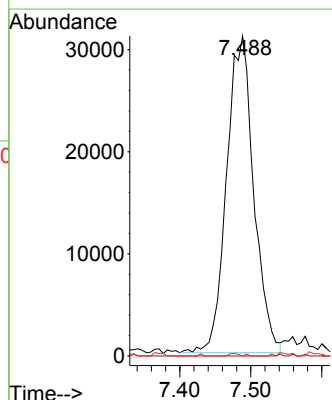
Tgt Ion: 43 Resp: 82519

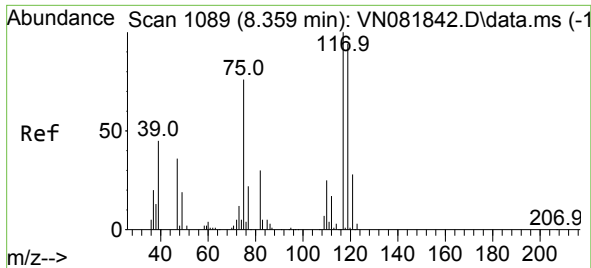
Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.4 8.7 13.1#

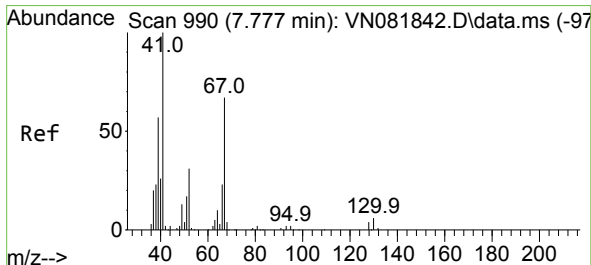
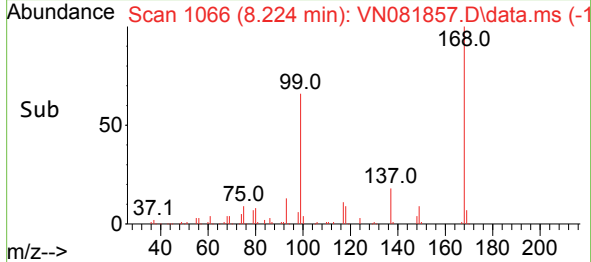
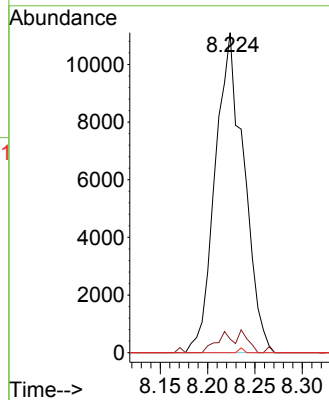
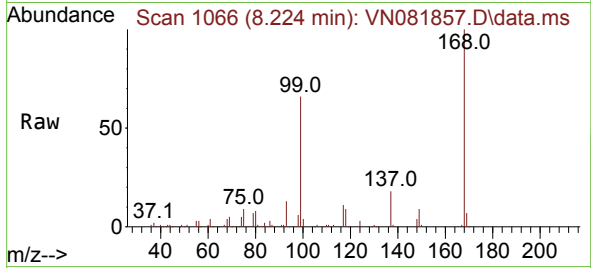




#38
Carbon Tetrachloride
Concen: 6.010 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

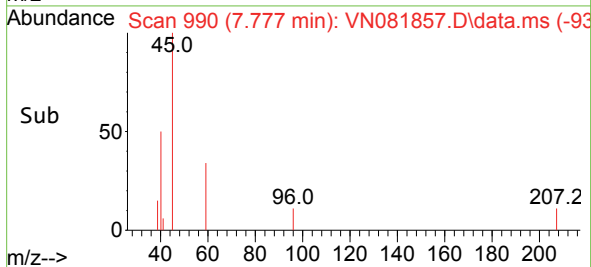
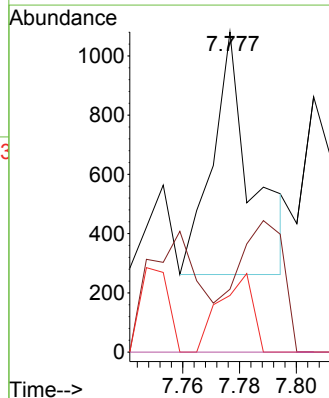
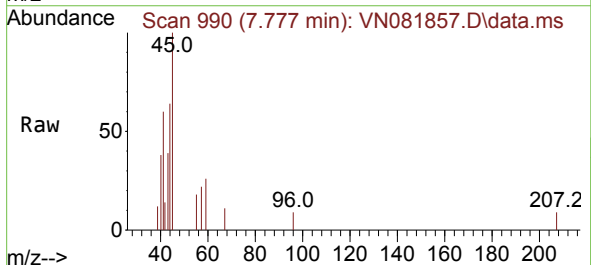
Instrument :
MSVOA_N
ClientSampleId :
413A

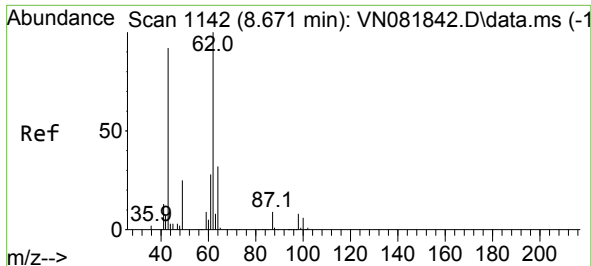
Tgt Ion:117 Resp: 23388
Ion Ratio Lower Upper
117 100
119 4.2 76.5 114.7#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 0.284 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 41 Resp: 781
Ion Ratio Lower Upper
41 100
39 64.1 46.6 69.8
67 27.8 67.3 100.9#
52 0.0 27.3 40.9#





#42

1,2-Dichloroethane

Concen: 0.205 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

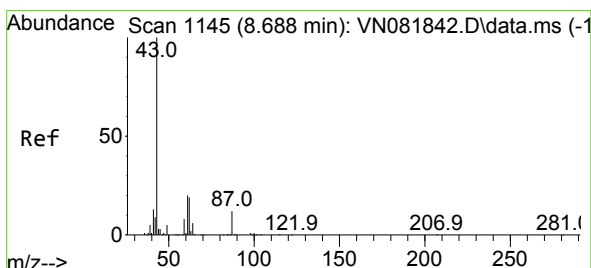
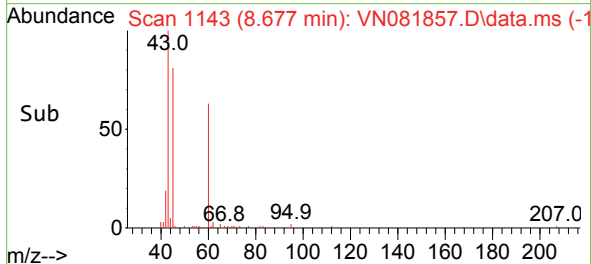
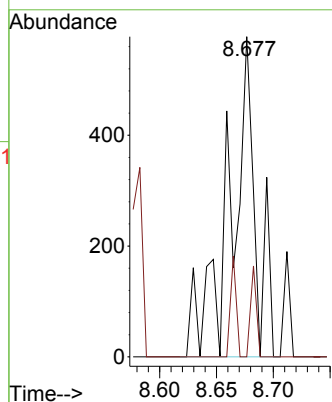
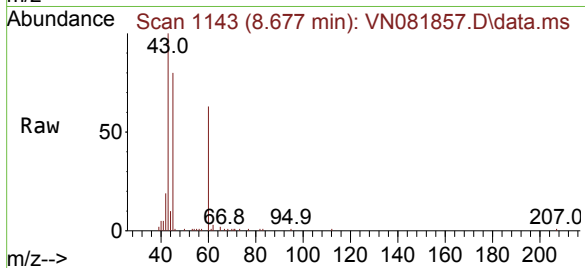
413A

Tgt Ion: 62 Resp: 911

Ion Ratio Lower Upper

62 100

98 6.4 0.0 19.6



#43

Isopropyl Acetate

Concen: 22.027 ug/l

RT: 8.647 min Scan# 1138

Delta R.T. -0.041 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

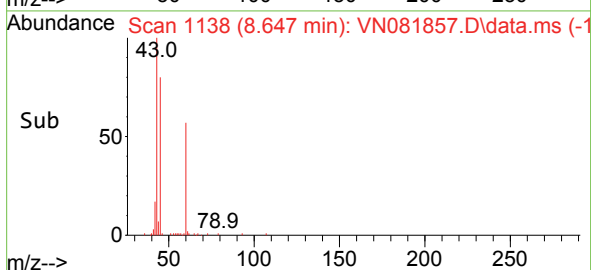
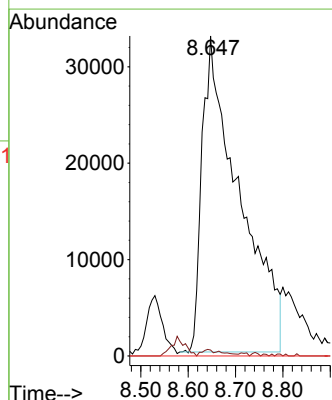
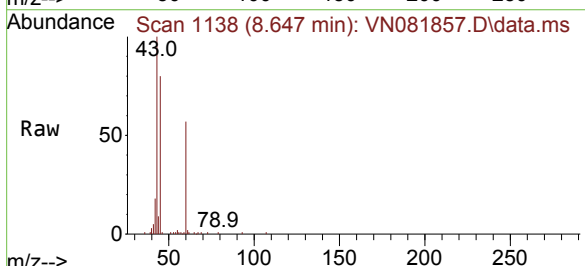
Tgt Ion: 43 Resp: 178285

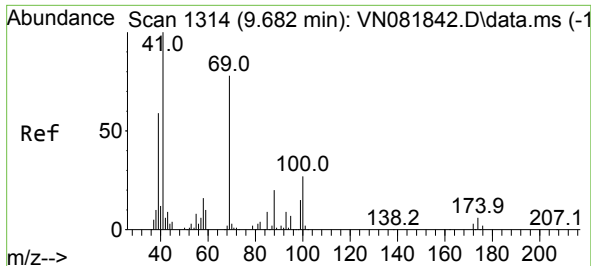
Ion Ratio Lower Upper

43 100

61 0.7 22.8 34.2#

87 0.0 12.0 18.0#

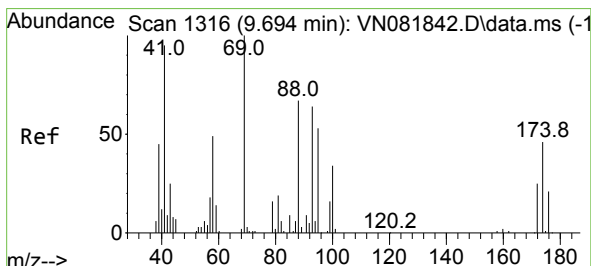
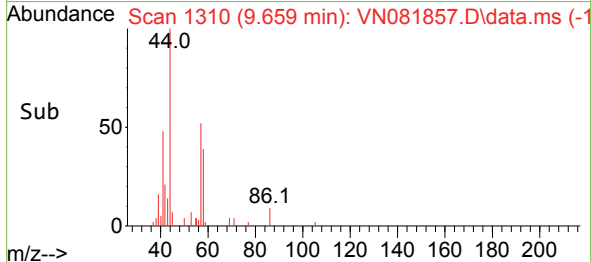
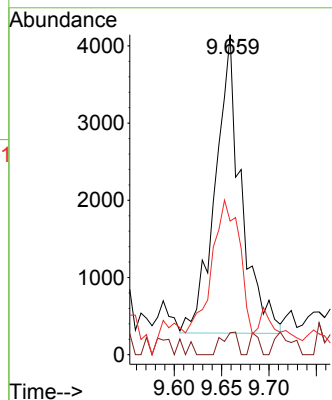
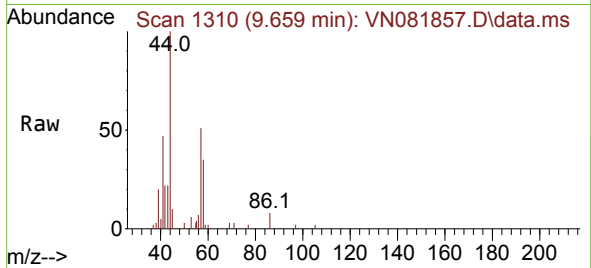




#48
Methyl methacrylate
Concen: 1.907 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

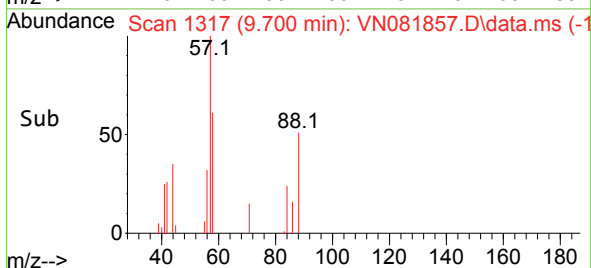
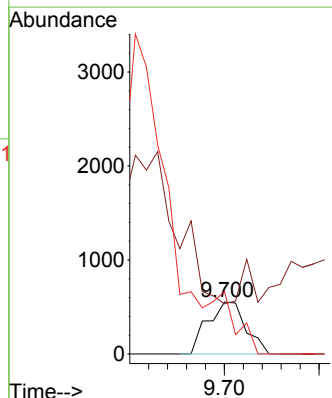
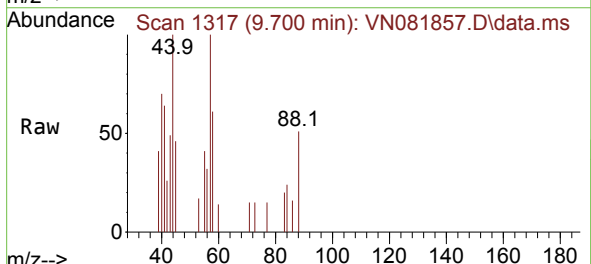
Instrument :
MSVOA_N
ClientSampleId :
413A

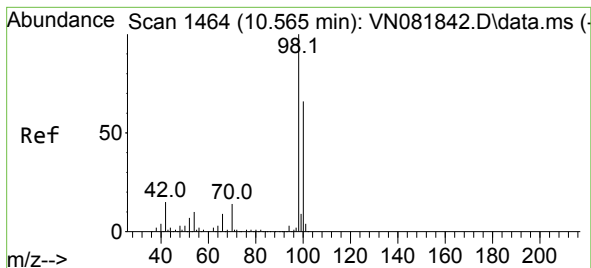
Tgt Ion: 41 Resp: 7368
Ion Ratio Lower Upper
41 100
69 4.7 77.9 116.9#
39 55.8 50.9 76.3



#49
1,4-Dioxane
Concen: 13.162 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 88 Resp: 773
Ion Ratio Lower Upper
88 100
43 0.0 19.0 28.6#
58 0.0 50.6 76.0#





#50

Toluene-d8

Concen: 51.957 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

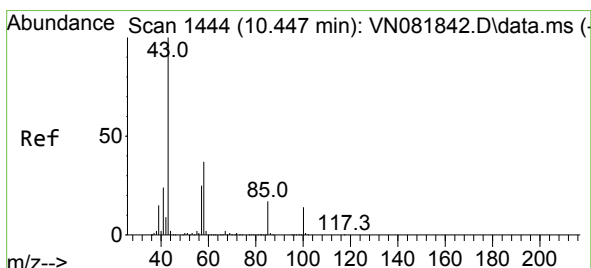
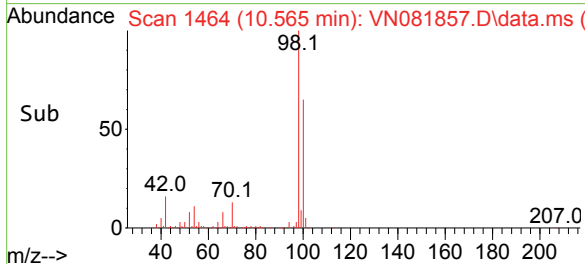
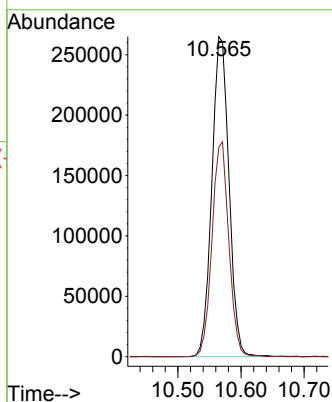
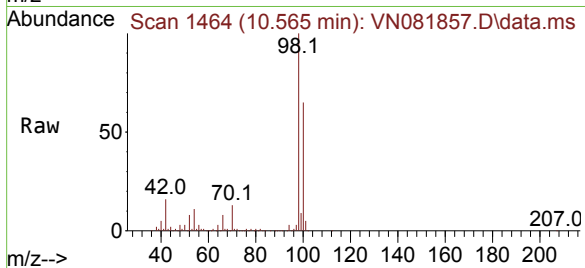
413A

Tgt Ion: 98 Resp: 499383

Ion Ratio Lower Upper

98 100

100 65.9 51.8 77.6



#51

4-Methyl-2-Pentanone

Concen: 0.717 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN081857.D

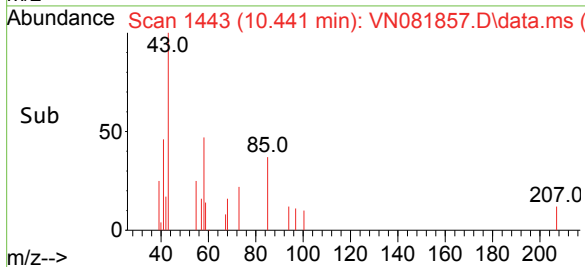
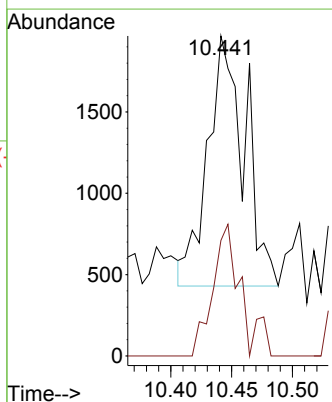
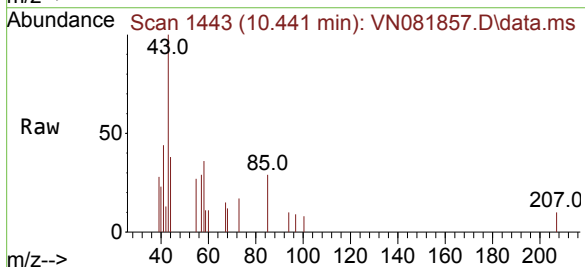
Acq: 25 Apr 2024 17:52

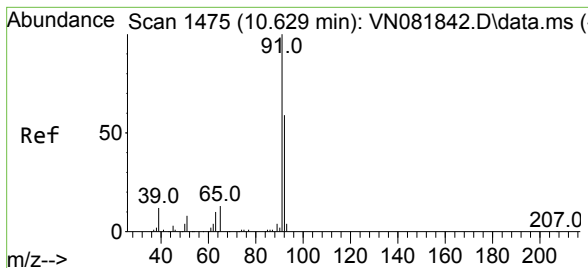
Tgt Ion: 43 Resp: 3266

Ion Ratio Lower Upper

43 100

58 40.1 33.2 49.8





#52

Toluene

Concen: 0.499 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN081857.D

Acq: 25 Apr 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

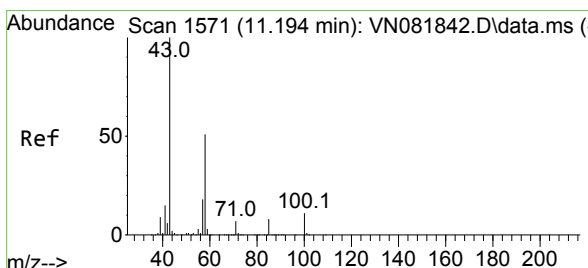
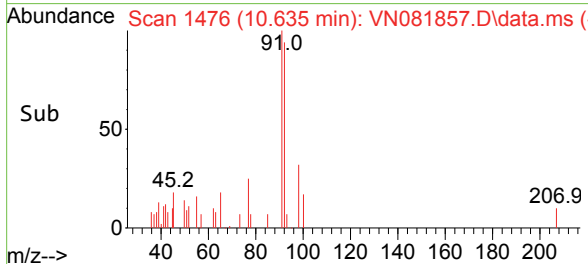
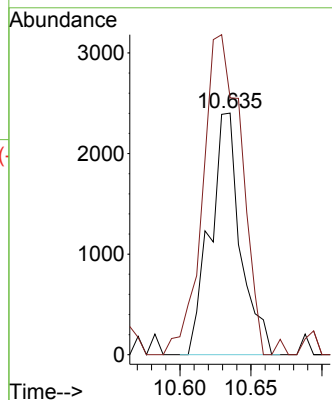
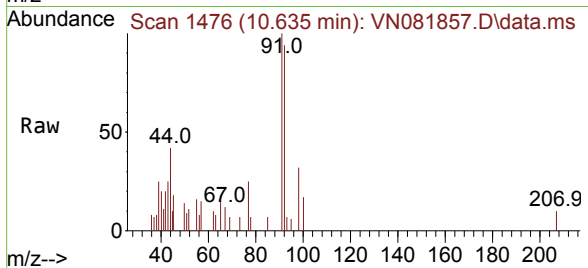
413A

Tgt Ion: 92 Resp: 3569

Ion Ratio Lower Upper

92 100

91 168.1 136.7 205.1



#59

2-Hexanone

Concen: 0.949 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN081857.D

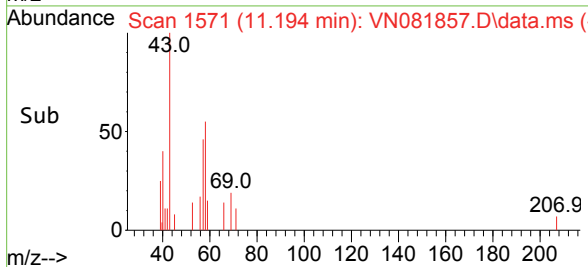
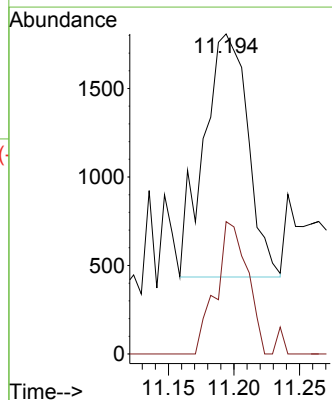
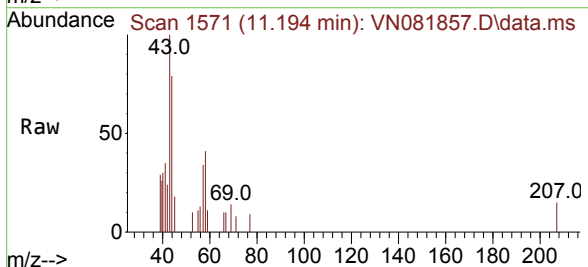
Acq: 25 Apr 2024 17:52

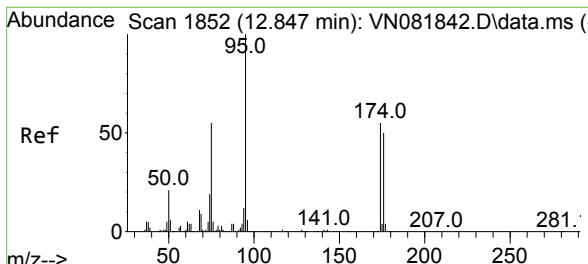
Tgt Ion: 43 Resp: 3218

Ion Ratio Lower Upper

43 100

58 38.6 28.3 84.9

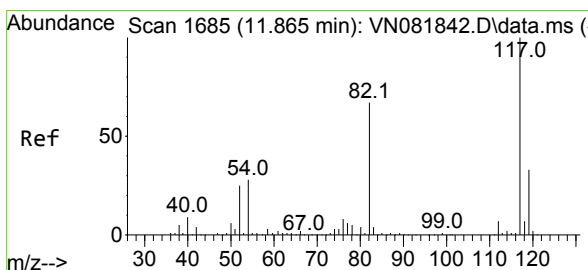
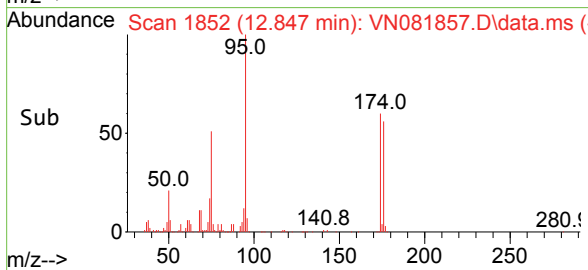
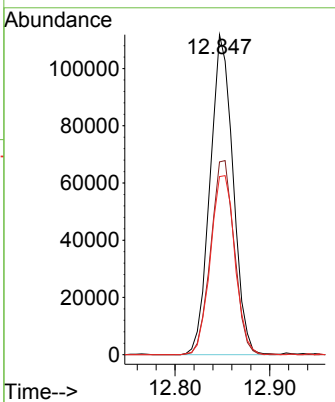
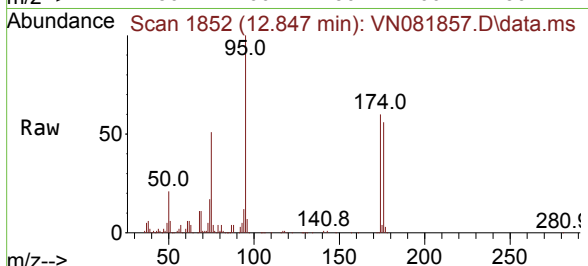




#62
 4-Bromofluorobenzene
 Concen: 49.593 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: VN081857.D
 Acq: 25 Apr 2024 17:52

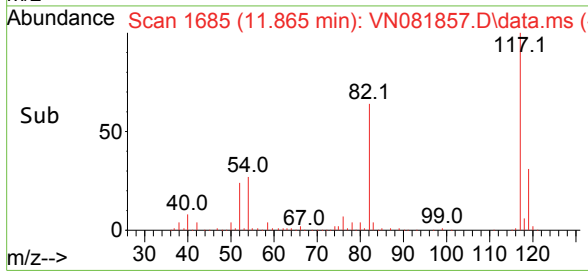
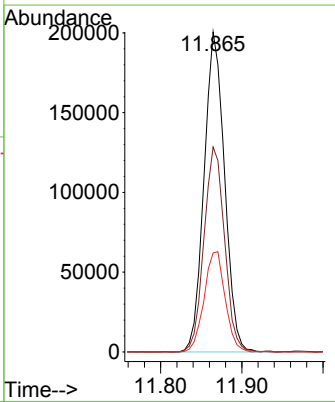
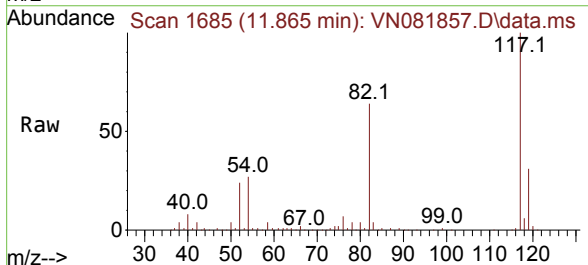
Instrument :
 MSVOA_N
 ClientSampleId :
 413A

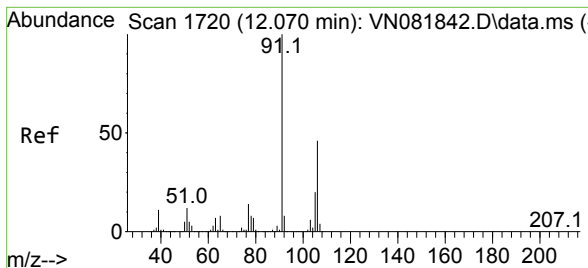
Tgt Ion:	95	Resp:	188425
Ion Ratio	Lower	Upper	
95	100		
174	62.3	0.0	160.6
176	59.8	0.0	152.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: VN081857.D
 Acq: 25 Apr 2024 17:52

Tgt Ion:	117	Resp:	350961
Ion Ratio	Lower	Upper	
117	100		
82	64.1	44.6	66.8
119	31.0	25.9	38.9

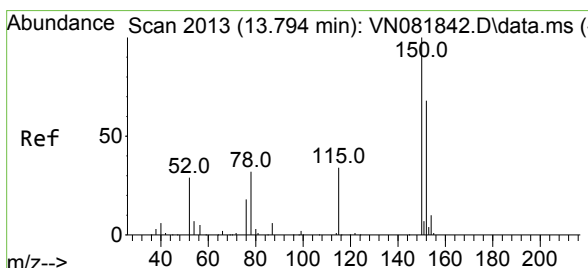
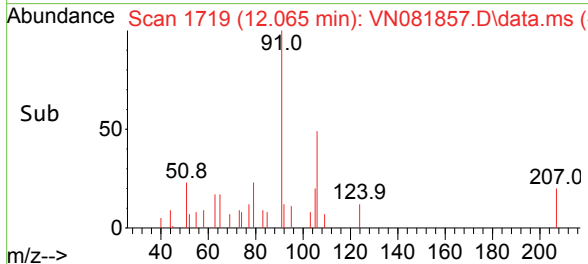
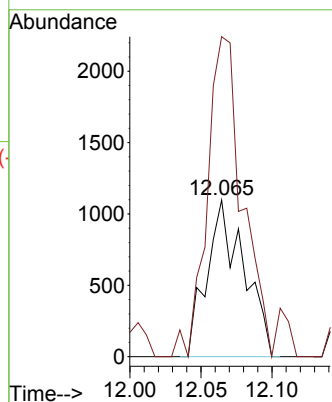
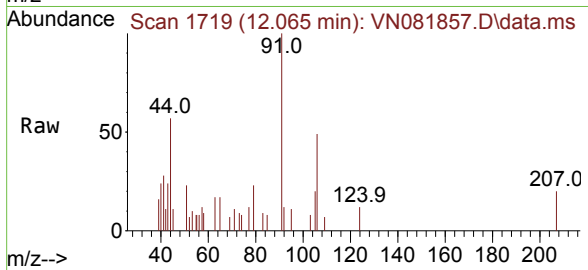




#68
m/p-Xylenes
Concen: 0.391 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

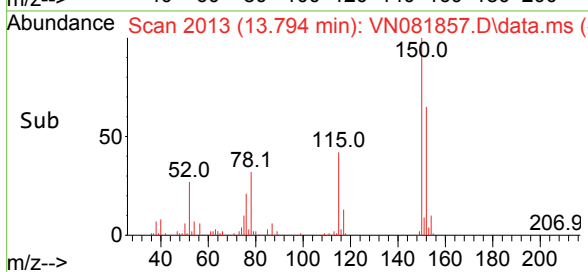
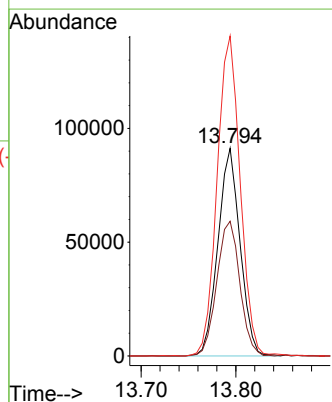
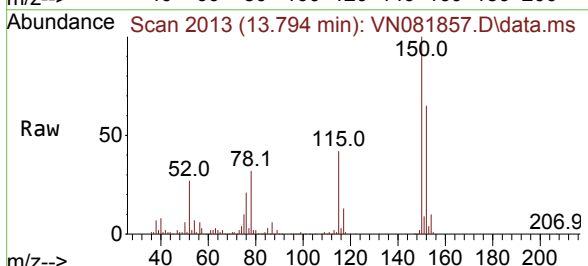
Instrument :
MSVOA_N
ClientSampleId :
413A

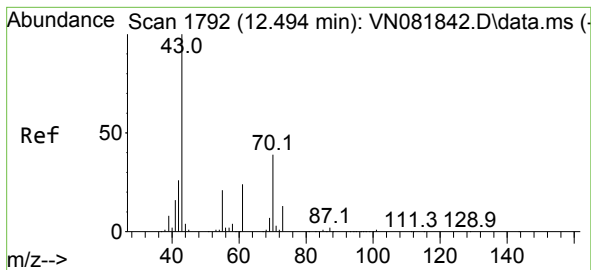
Tgt Ion:106 Resp: 1988
Ion Ratio Lower Upper
106 100
91 194.9 159.4 239.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion:152 Resp: 148210
Ion Ratio Lower Upper
152 100
115 67.6 30.4 91.3
150 160.7 0.0 353.2

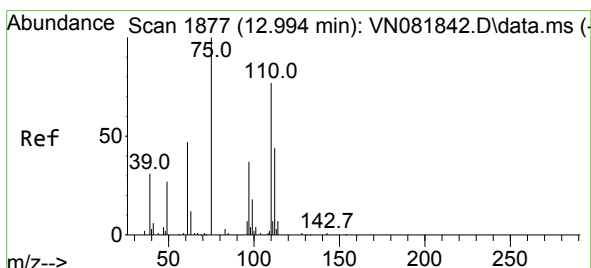
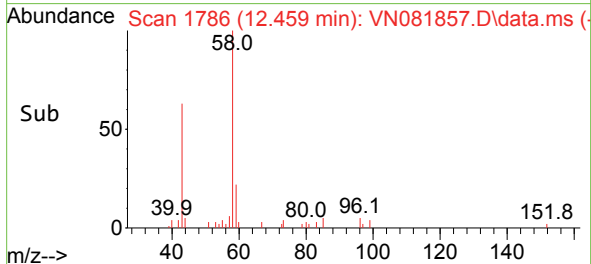
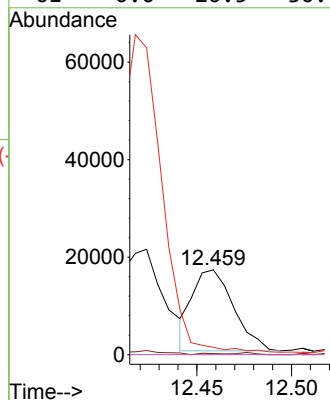
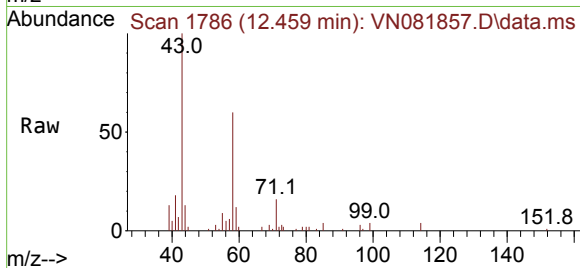




#74
N-amy1 acetate
Concen: 3.427 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

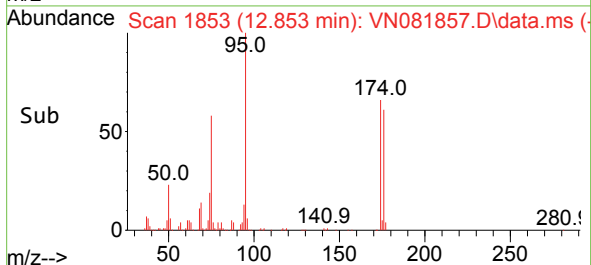
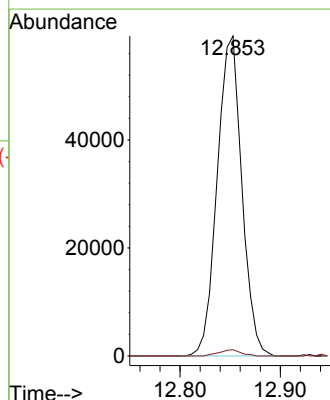
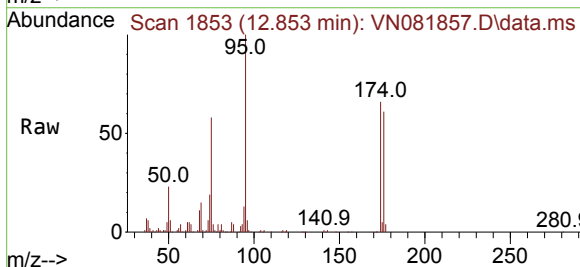
Instrument :
MSVOA_N
ClientSampleId :
413A

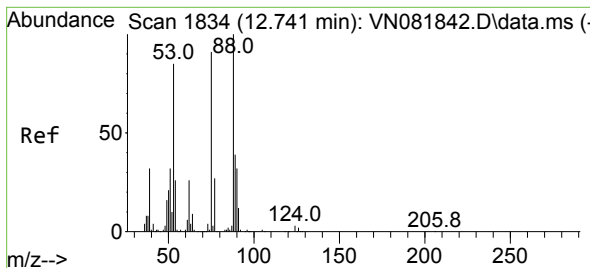
Tgt Ion: 43	Resp: 25142
Ion Ratio	Lower Upper
43	100
70	1.0 39.0 58.4#
55	0.0 21.3 31.9#
61	0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 26.293 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN081857.D
Acq: 25 Apr 2024 17:52

Tgt Ion: 75	Resp: 101039
Ion Ratio	Lower Upper
75	100
77	1.7 90.5 271.3#

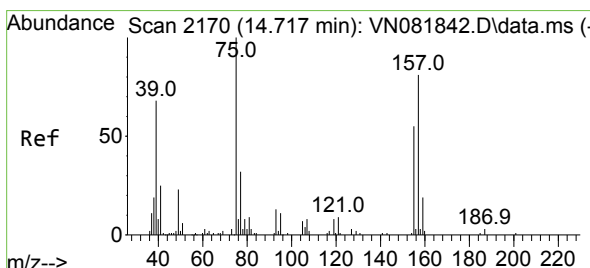
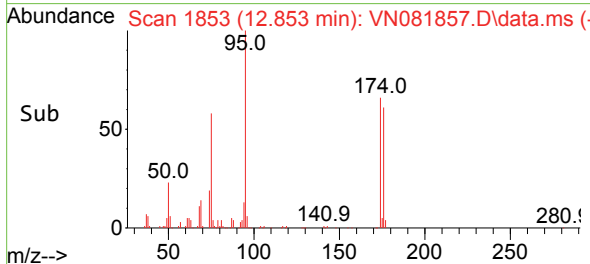
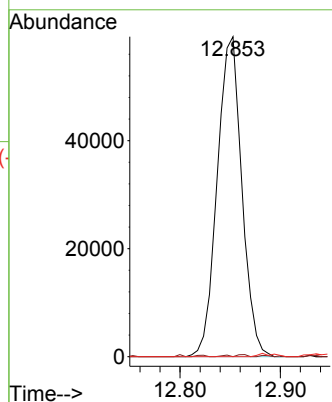
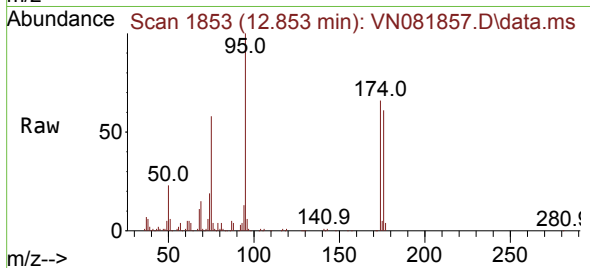




#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.878 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN081857.D
 Acq: 25 Apr 2024 17:52

Instrument :
 MSVOA_N
 ClientSampleId :
 413A

Tgt Ion: 75 Resp: 101039
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.9 109.3#
 89 0.0 39.1 58.7#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.328 ug/l
 RT: 14.759 min Scan# 2177
 Delta R.T. 0.041 min
 Lab File: VN081857.D
 Acq: 25 Apr 2024 17:52

Tgt Ion: 75 Resp: 316
 Ion Ratio Lower Upper
 75 100
 155 0.0 42.6 128.0#
 157 0.0 53.0 159.0#

