

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042624\
 Data File : VN081874.D
 Acq On : 26 Apr 2024 13:44
 Operator : JC\MD
 Sample : P2257-05DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 41CDL

Quant Time: Apr 26 22:59:48 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)

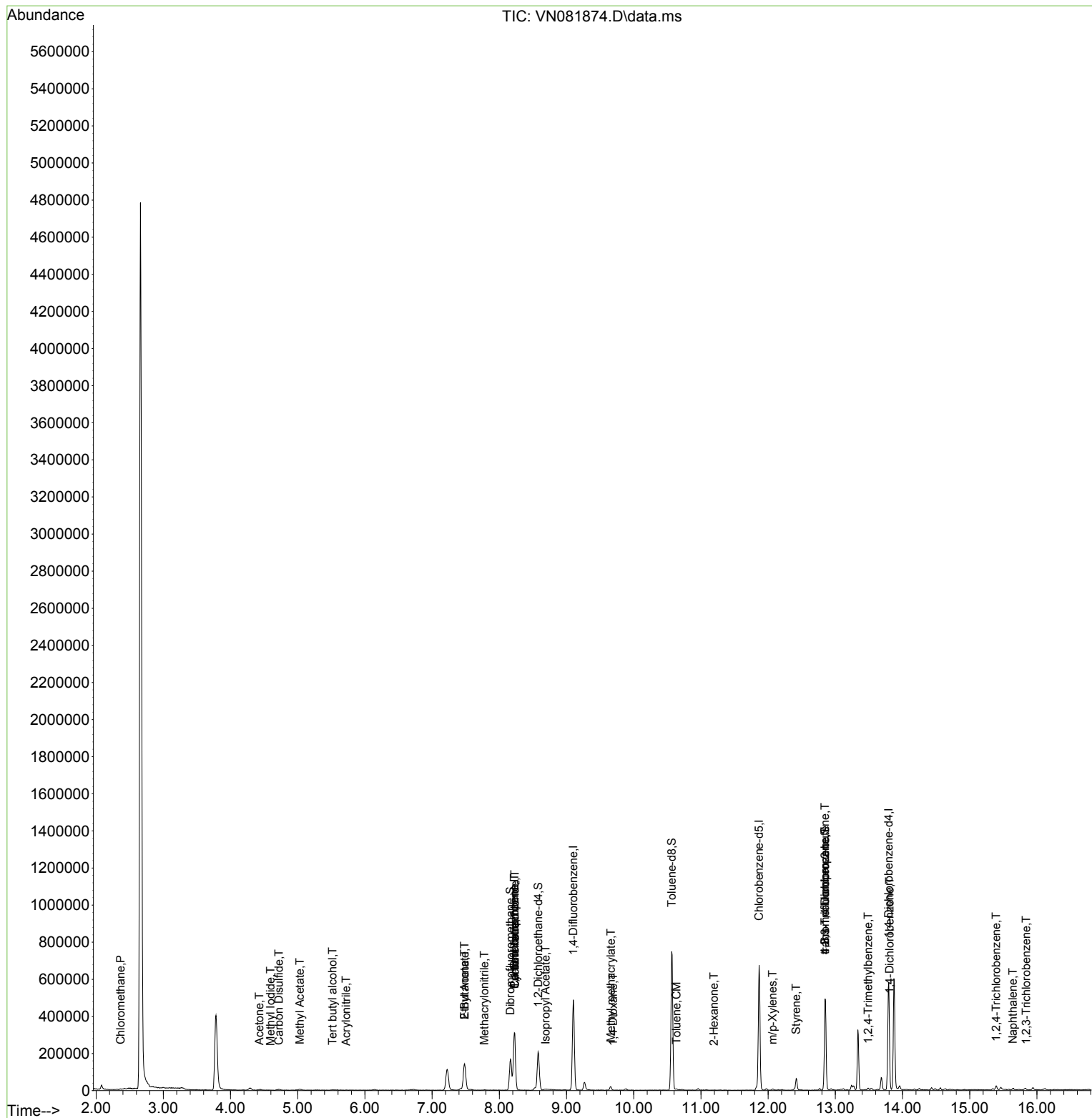
Internal Standards						
1) Pentafluorobenzene	8.224	168	217879	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	407314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	362377	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	146595	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	164239	44.664	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.320%		
35) Dibromofluoromethane	8.165	113	120018	48.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.880%		
50) Toluene-d8	10.565	98	494310	51.322	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.640%		
62) 4-Bromofluorobenzene	12.847	95	177198	46.540	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery =	93.080%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	874	0.274	ug/l	90
5) Bromomethane	2.959	94	425	Below Cal	#	71
10) Methyl Iodide	4.595	142	921	0.405	ug/l #	80
11) Tert butyl alcohol	5.518	59	1975	2.954	ug/l #	44
13) Acrolein	4.183	56	676	Below Cal	#	72
15) Acrylonitrile	5.718	53	400	0.249	ug/l #	59
16) Acetone	4.430	43	6982	0.975	ug/l #	76
17) Carbon Disulfide	4.718	76	3032	0.382	ug/l #	79
18) Methyl Acetate	5.030	43	10032	2.693	ug/l #	79
25) 2-Butanone	7.483	43	237976	114.022	ug/l	93
31) Cyclohexane	8.230	56	7223	1.304	ug/l #	33
36) 1,1-Dichloropropene	8.224	75	20371	5.106	ug/l #	45
37) Ethyl Acetate	7.483	43	237976	55.167	ug/l #	68
38) Carbon Tetrachloride	8.230	117	23003	5.899	ug/l #	14
41) Methacrylonitrile	7.777	41	1240	0.450	ug/l #	43
43) Isopropyl Acetate	8.688	43	5877	0.725	ug/l #	57
48) Methyl methacrylate	9.659	41	6538	1.688	ug/l #	33
49) 1,4-Dioxane	9.694	88	171	2.906	ug/l #	28
52) Toluene	10.635	92	2645	0.369	ug/l	98
59) 2-Hexanone	11.194	43	1704	0.501	ug/l #	40
68) m/p-Xylenes	12.065	106	2775	0.529	ug/l	86
70) Styrene	12.418	104	1834	0.207	ug/l #	72
76) 1,2,3-Trichloropropane	12.847	75	93750	24.665	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	93750	50.542	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	3001	0.272	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	1125	0.224	ug/l #	61
93) 1,2,4-Trichlorobenzene	15.394	180	727	0.266	ug/l #	9
95) Naphthalene	15.641	128	4954	0.480	ug/l	95
96) 1,2,3-Trichlorobenzene	15.841	180	694	0.265	ug/l #	38

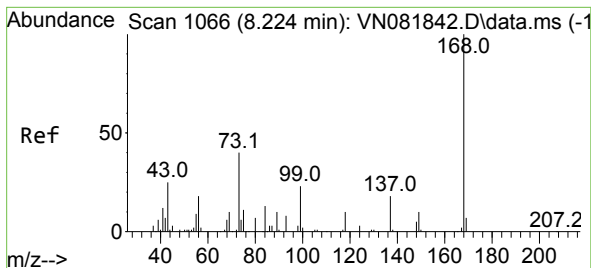
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

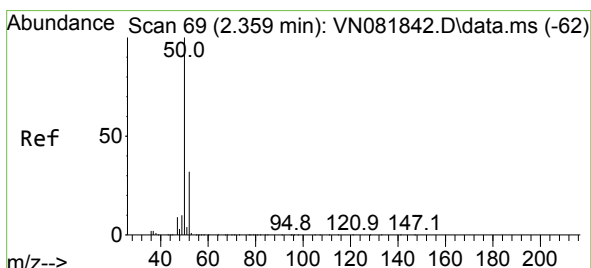
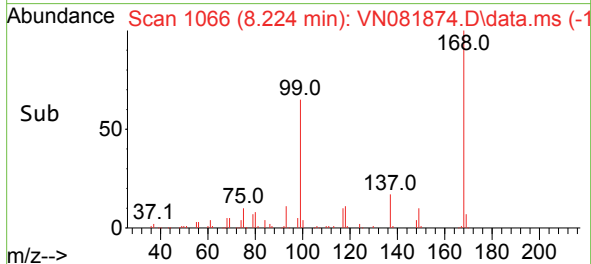
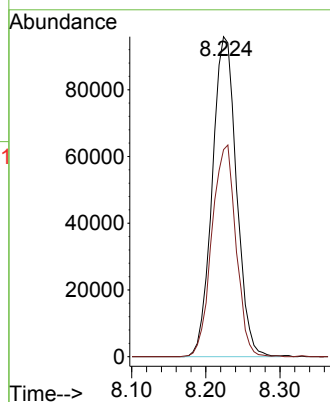
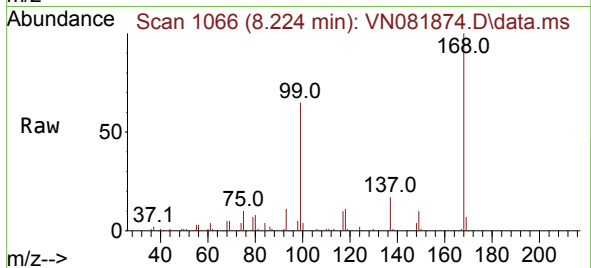
41CDL

Tgt Ion:168 Resp: 217879

Ion Ratio Lower Upper

168 100

99 64.7 48.2 72.4



#3

Chloromethane

Concen: 0.274 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN081874.D

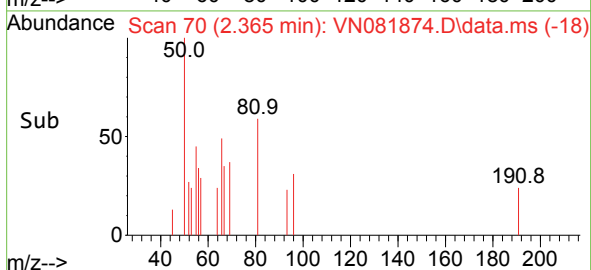
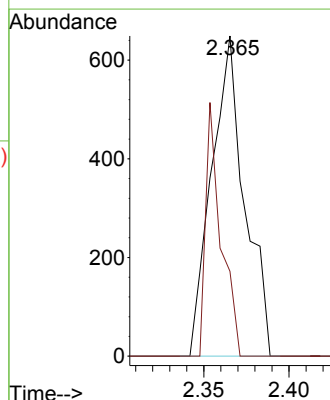
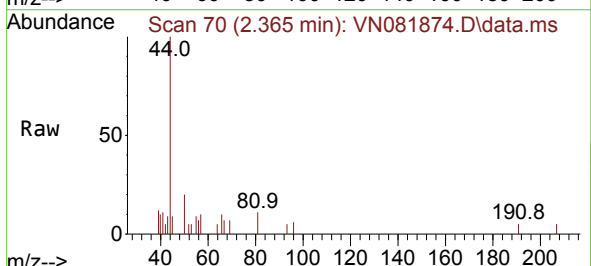
Acq: 26 Apr 2024 13:44

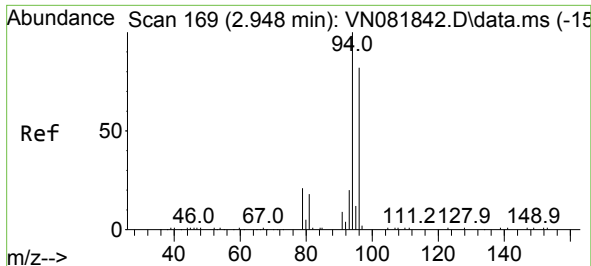
Tgt Ion: 50 Resp: 874

Ion Ratio Lower Upper

50 100

52 26.5 25.5 38.3

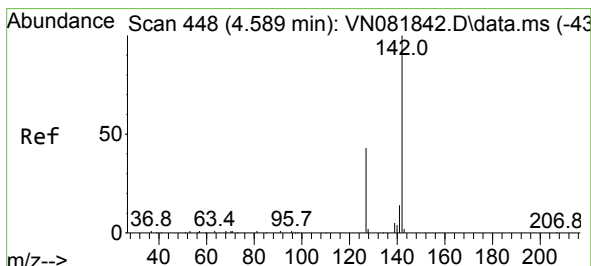
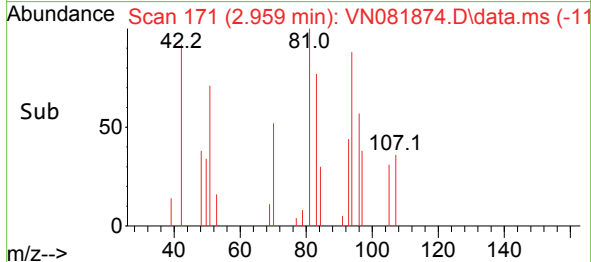
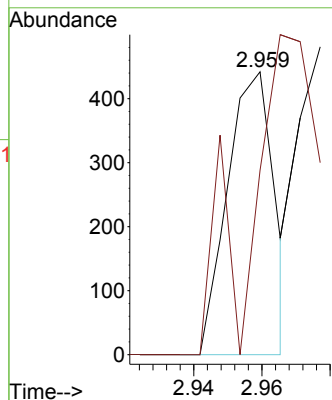
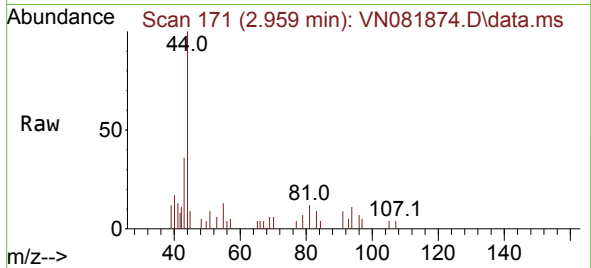




#5
Bromomethane
Concen: Below Cal
RT: 2.959 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

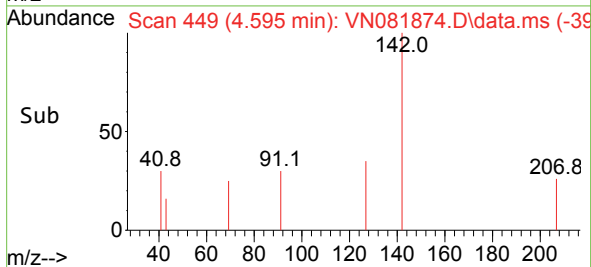
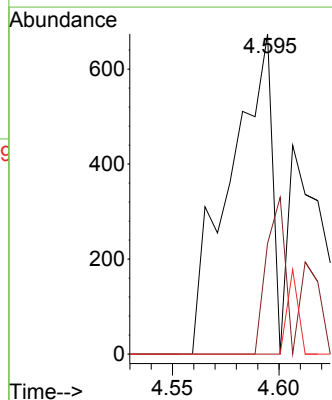
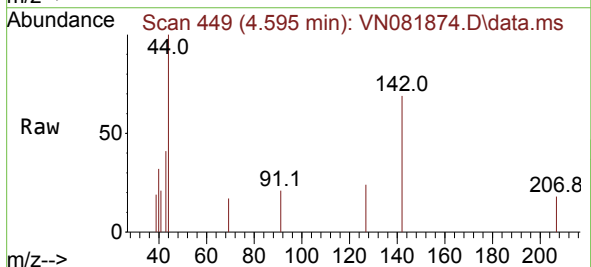
Instrument :
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41CDL

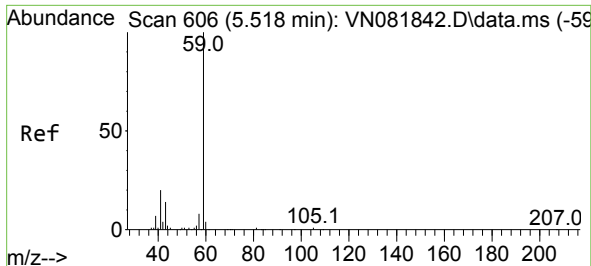
Tgt Ion: 94 Resp: 425
Ion Ratio Lower Upper
94 100
96 65.2 74.8 112.2#



#10
Methyl Iodide
Concen: 0.405 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 142 Resp: 921
Ion Ratio Lower Upper
142 100
127 34.6 35.8 53.6#
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 2.954 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

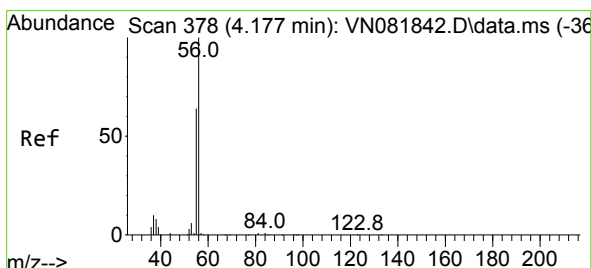
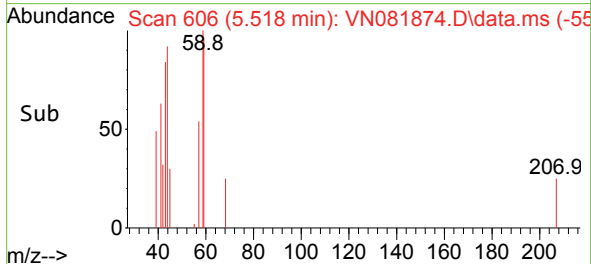
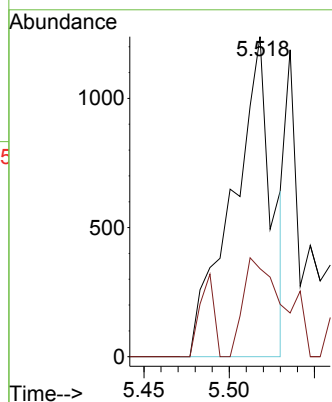
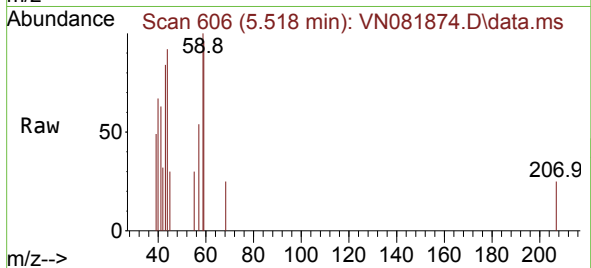
41CDL

Tgt Ion: 59 Resp: 1975

Ion Ratio Lower Upper

59 100

57 32.5 8.9 13.3#



#13

Acrolein

Concen: Below Cal

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN081874.D

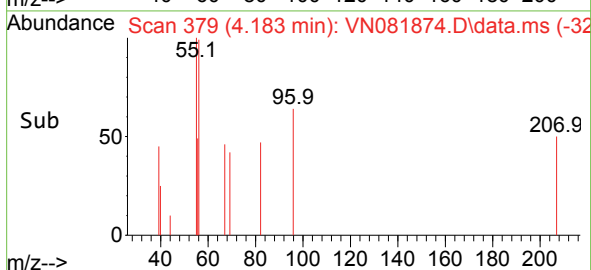
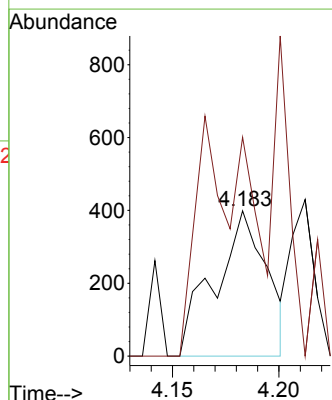
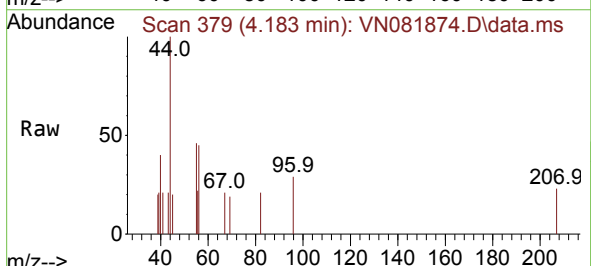
Acq: 26 Apr 2024 13:44

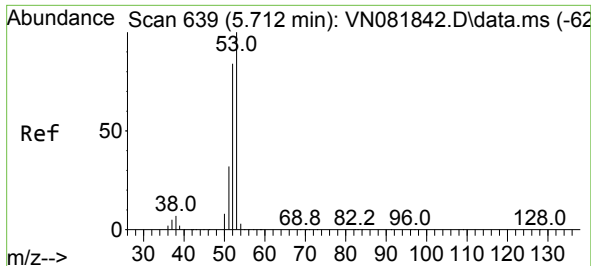
Tgt Ion: 56 Resp: 676

Ion Ratio Lower Upper

56 100

55 93.0 55.8 83.8#

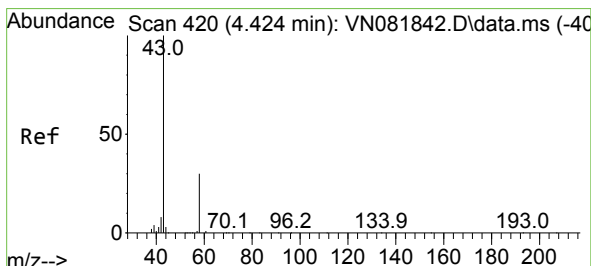
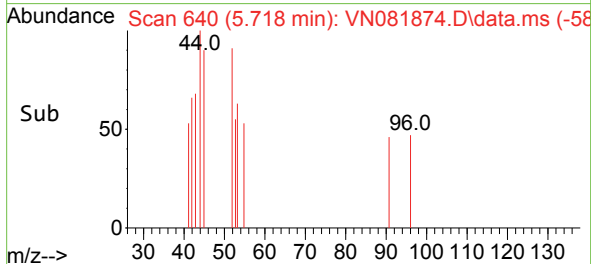
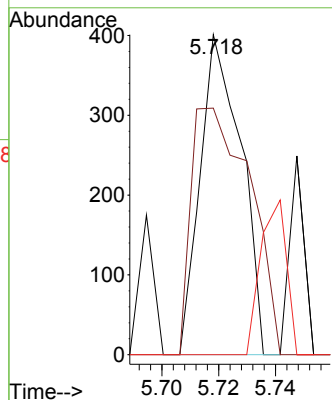
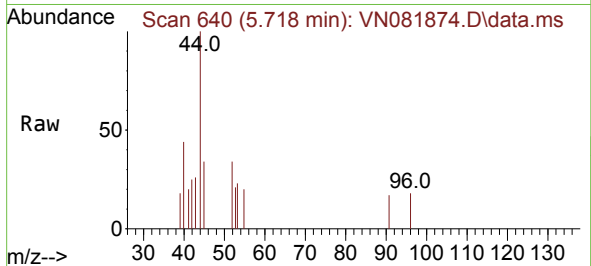




#15
Acrylonitrile
Concen: 0.249 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

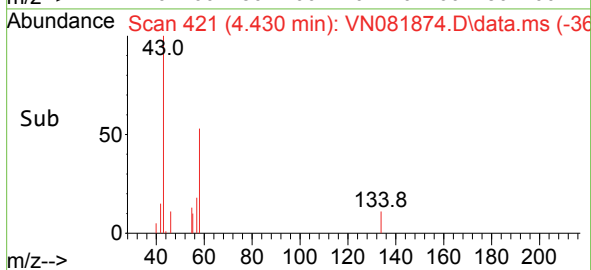
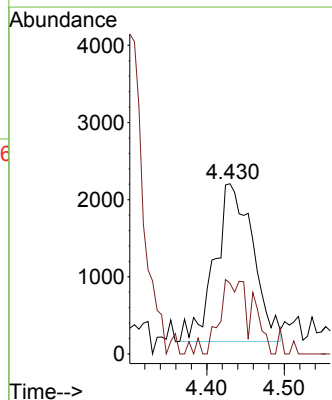
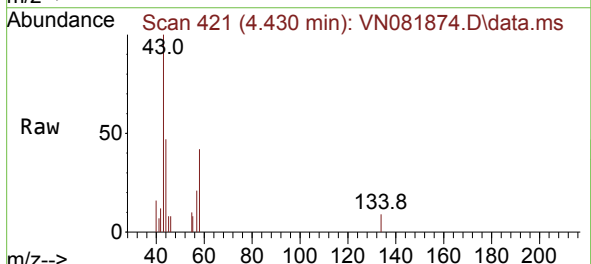
Instrument :
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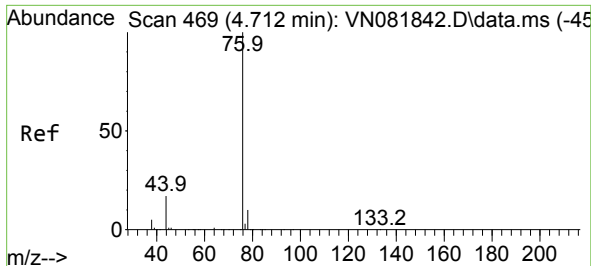
Tgt Ion: 53 Resp: 400
Ion Ratio Lower Upper
53 100
52 111.5 66.1 99.1#
51 0.0 29.4 44.2#



#16
Acetone
Concen: 0.975 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 43 Resp: 6982
Ion Ratio Lower Upper
43 100
58 44.8 25.2 37.8#

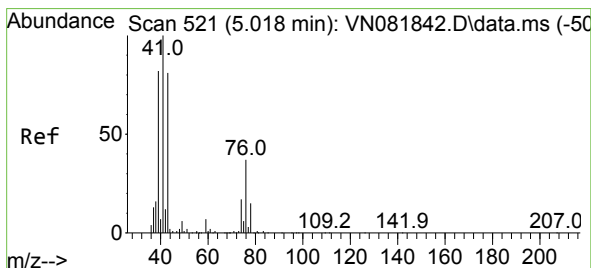
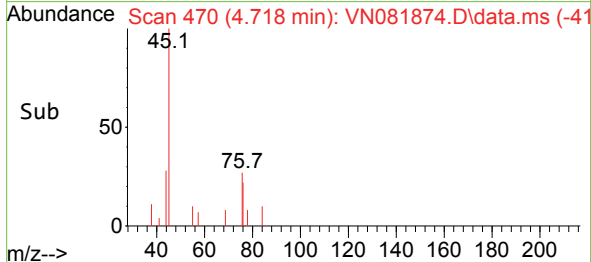
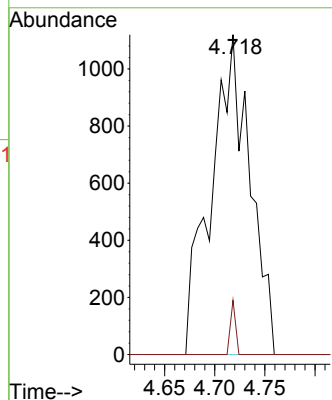
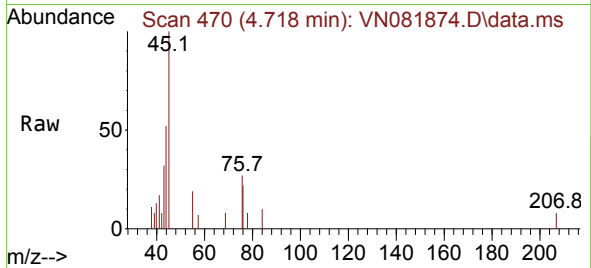




#17
Carbon Disulfide
Concen: 0.382 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

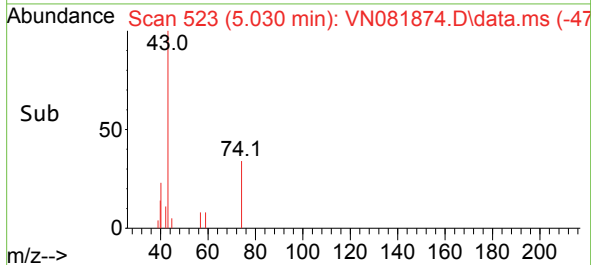
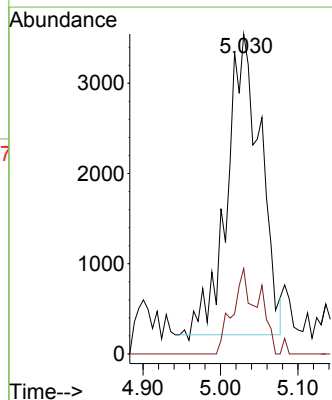
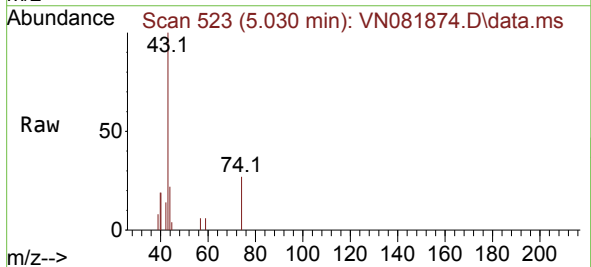
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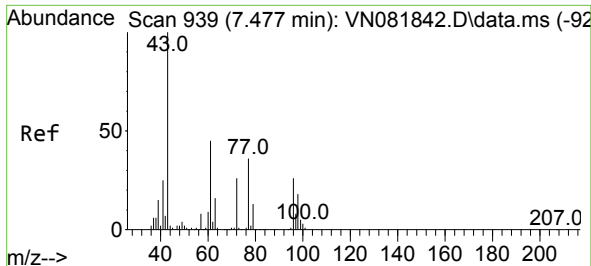
Tgt Ion: 76 Resp: 3032
Ion Ratio Lower Upper
76 100
78 17.0 7.5 11.3#



#18
Methyl Acetate
Concen: 2.693 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 43 Resp: 10032
Ion Ratio Lower Upper
43 100
74 16.8 22.2 33.2#

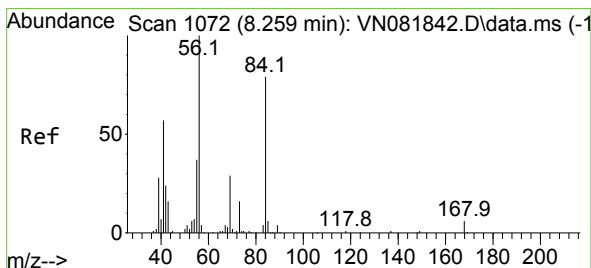
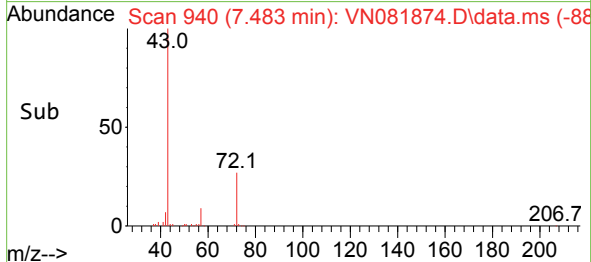
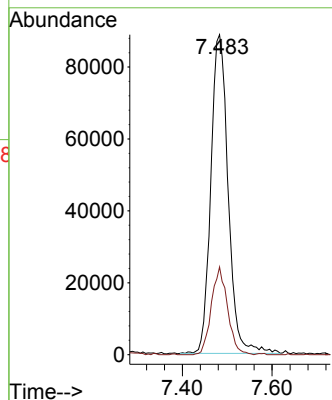
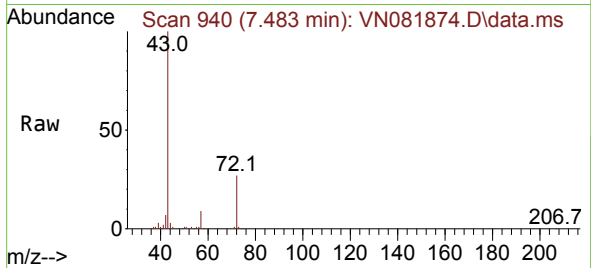




#25
2-Butanone
Concen: 114.022 ug/l
RT: 7.483 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

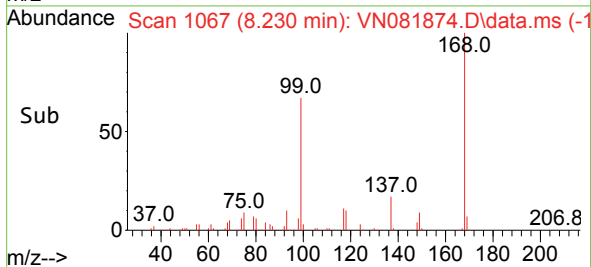
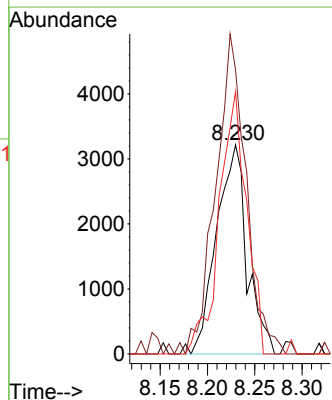
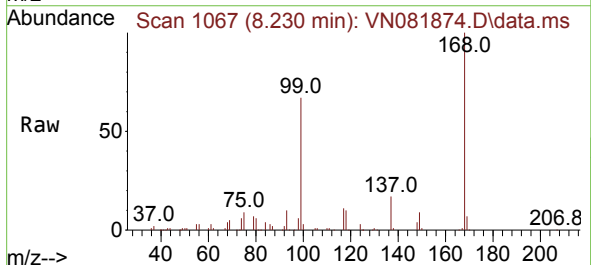
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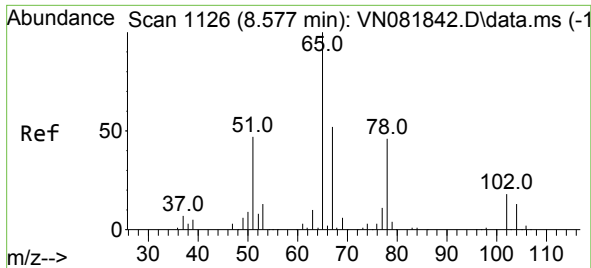
Tgt Ion: 43 Resp: 237976
Ion Ratio Lower Upper
43 100
72 27.5 25.3 37.9



#31
Cyclohexane
Concen: 1.304 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 56 Resp: 7223
Ion Ratio Lower Upper
56 100
69 131.0 24.4 36.6#
84 125.3 77.0 115.4#





#33

1,2-Dichloroethane-d4

Concen: 44.664 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

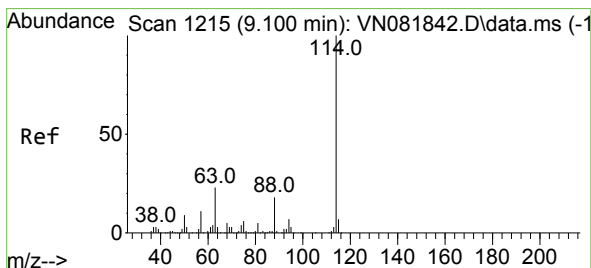
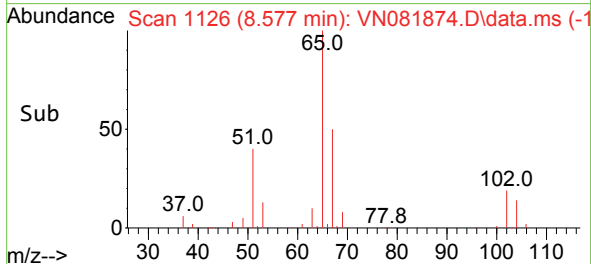
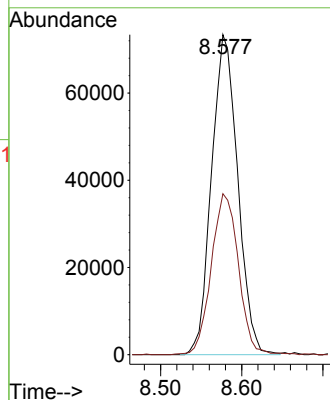
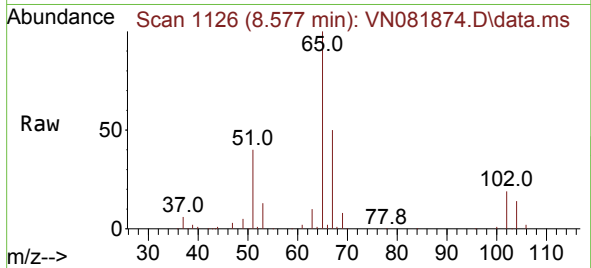
41CDL

Tgt Ion: 65 Resp: 164239

Ion Ratio Lower Upper

65 100

67 52.3 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

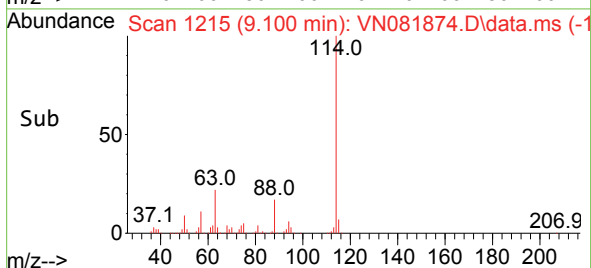
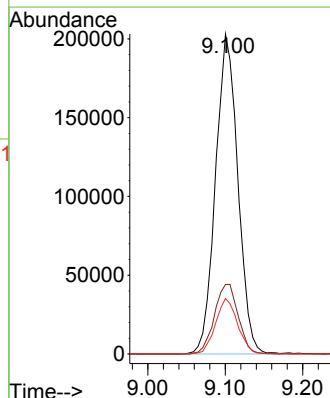
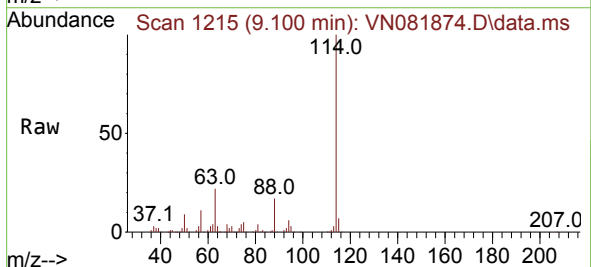
Tgt Ion: 114 Resp: 407314

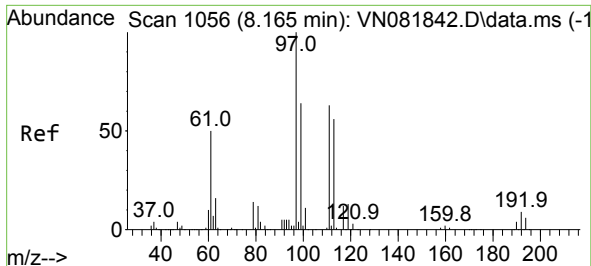
Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.0

88 17.4 0.0 31.4

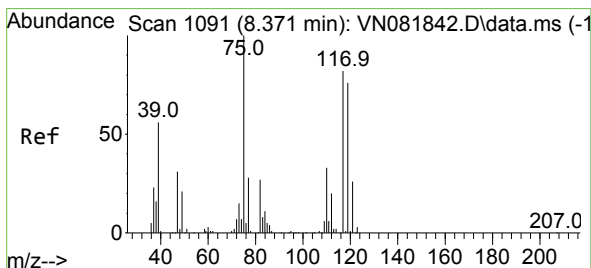
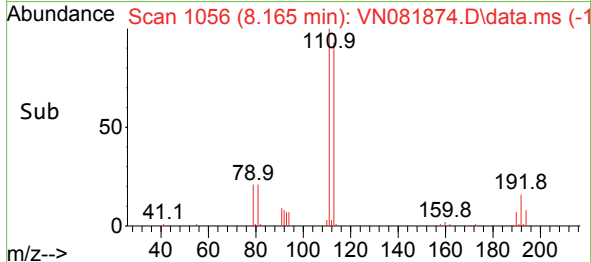
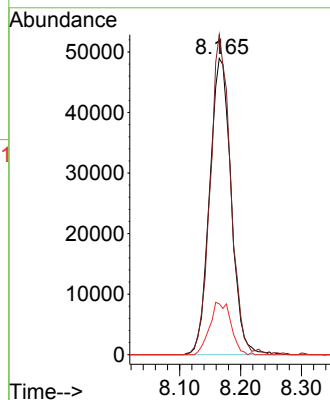
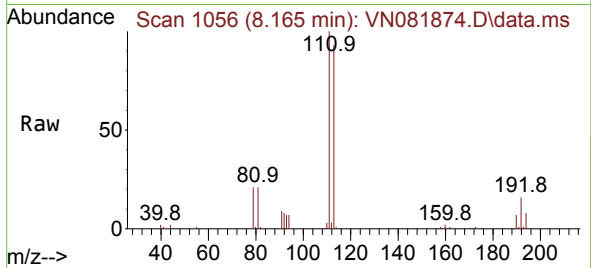




#35
Dibromofluoromethane
Concen: 48.939 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

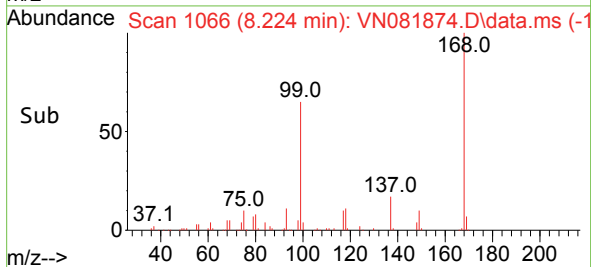
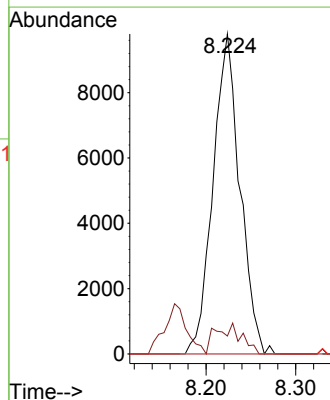
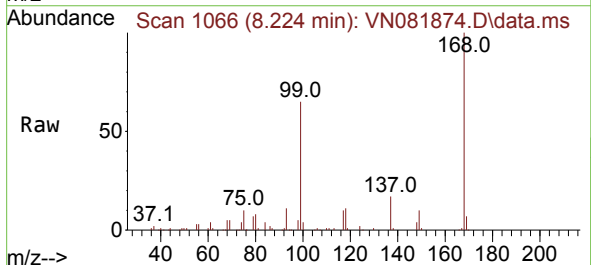
Instrument :
MSVOA_N
ClientSampleId :
41CDL

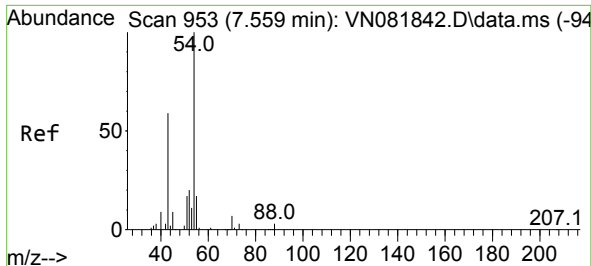
Tgt Ion:113 Resp: 120018
Ion Ratio Lower Upper
113 100
111 102.3 83.4 125.2
192 17.5 14.0 21.0



#36
1,1-Dichloropropene
Concen: 5.106 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

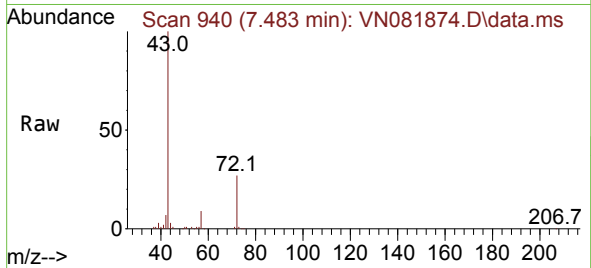
Tgt Ion: 75 Resp: 20371
Ion Ratio Lower Upper
75 100
110 4.7 17.8 53.5#
77 0.0 25.0 37.4#



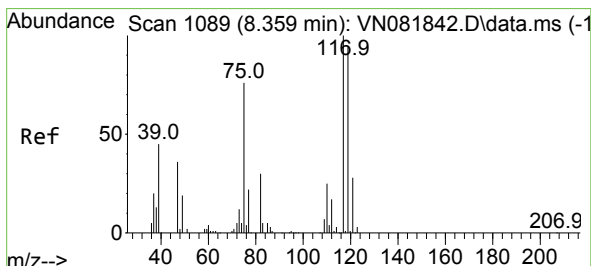
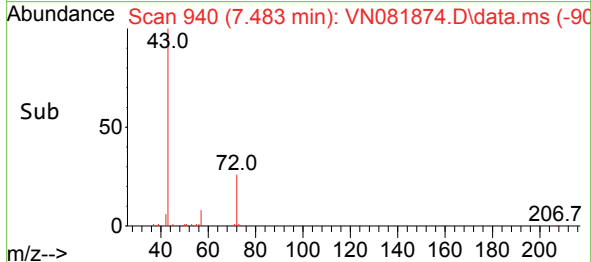
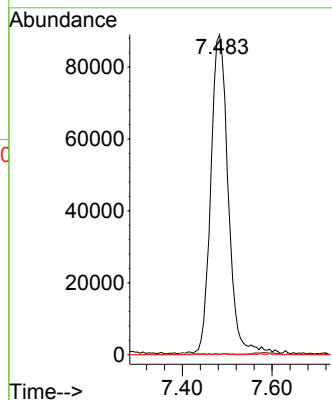


#37
Ethyl Acetate
Concen: 55.167 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.076 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Instrument :
MSVOA_N
ClientSampleId :
41CDL

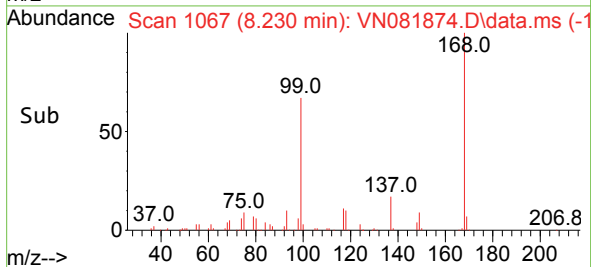
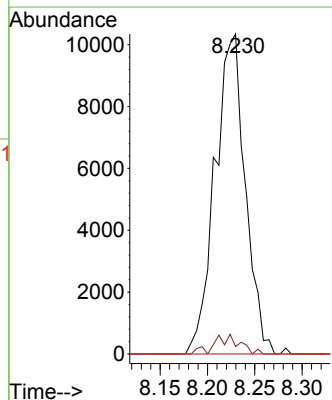
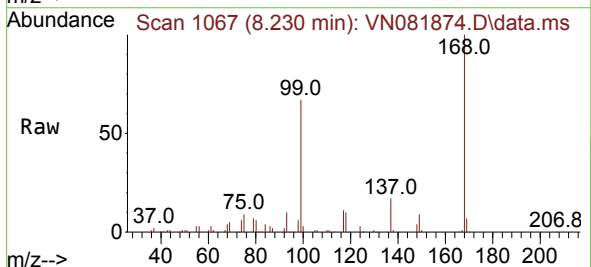


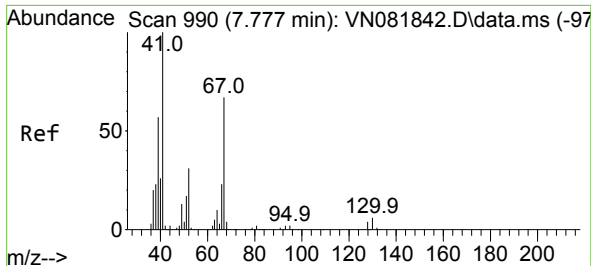
Tgt Ion: 43 Resp: 237976
Ion Ratio Lower Upper
43 100
61 0.1 11.3 16.9#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.899 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

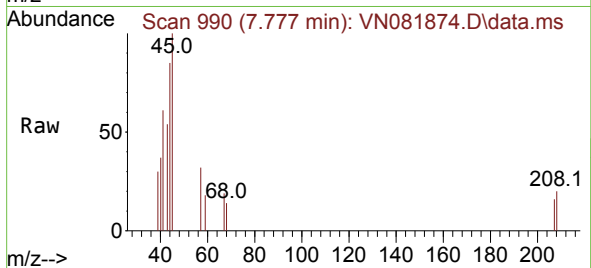
Tgt Ion: 117 Resp: 23003
Ion Ratio Lower Upper
117 100
119 2.4 76.5 114.7#
121 0.0 23.9 35.9#



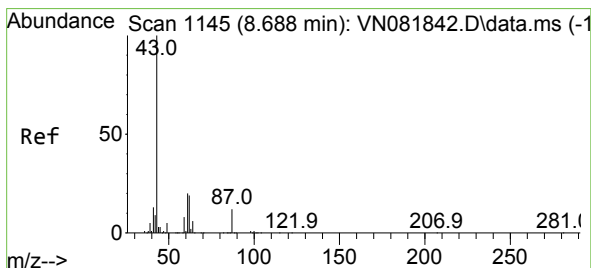
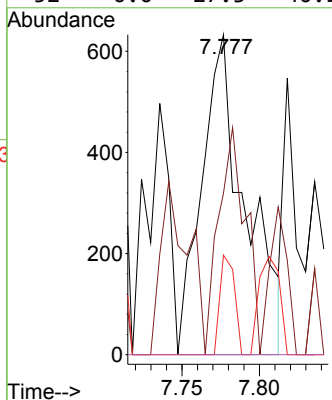
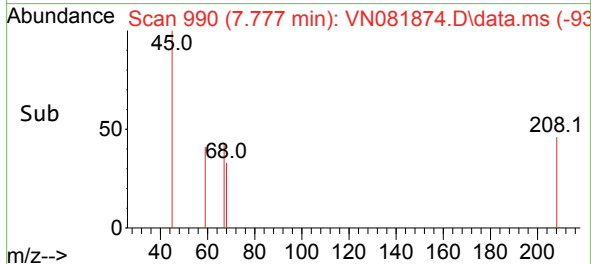


#41
Methacrylonitrile
Concen: 0.450 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

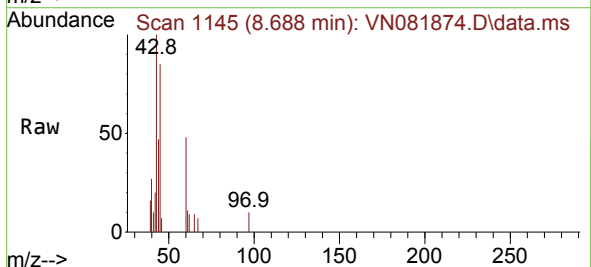
Instrument :
MSVOA_N
ClientSampleId :
41CDL



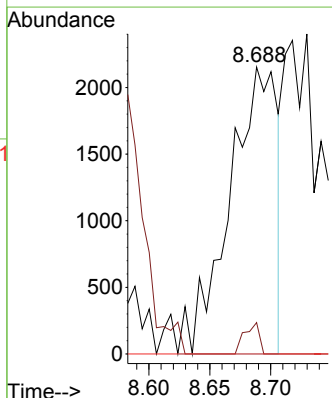
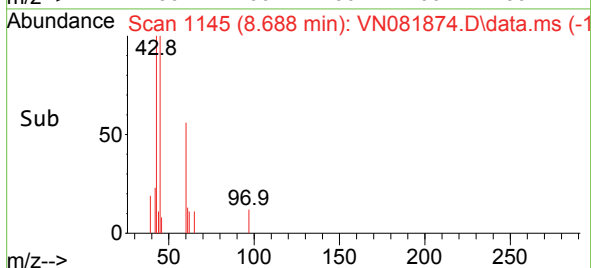
Tgt Ion:	41	Resp:	1240
Ion	Ratio	Lower	Upper
41	100		
39	43.9	46.6	69.8#
67	10.4	67.3	100.9#
52	0.0	27.3	40.9#

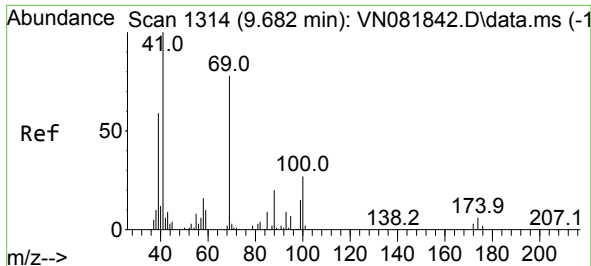


#43
Isopropyl Acetate
Concen: 0.725 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44



Tgt Ion:	43	Resp:	5877
Ion	Ratio	Lower	Upper
43	100		
61	3.4	22.8	34.2#
87	0.0	12.0	18.0#





#48

Methyl methacrylate

Concen: 1.688 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.023 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

41CDL

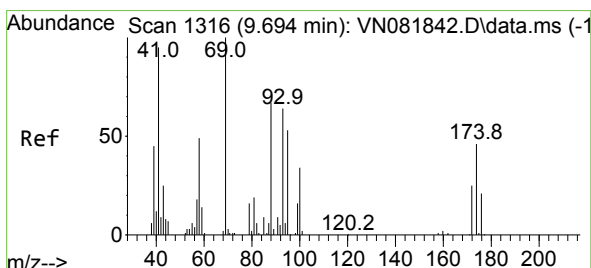
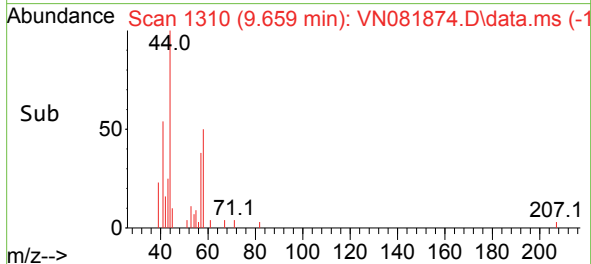
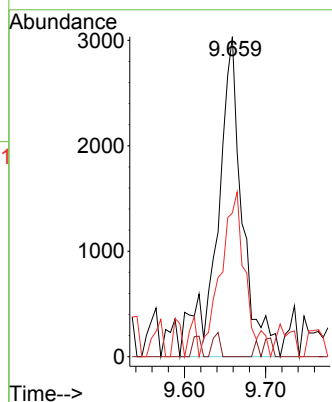
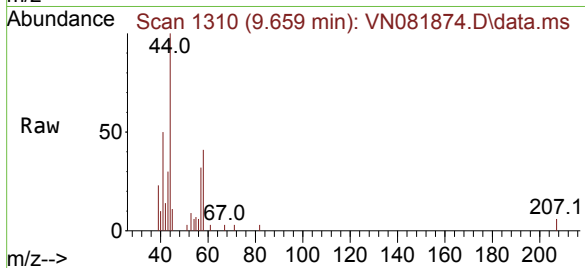
Tgt Ion: 41 Resp: 6538

Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

39 50.2 50.9 76.3#



#49

1,4-Dioxane

Concen: 2.906 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

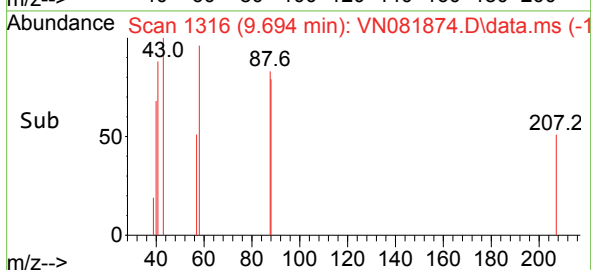
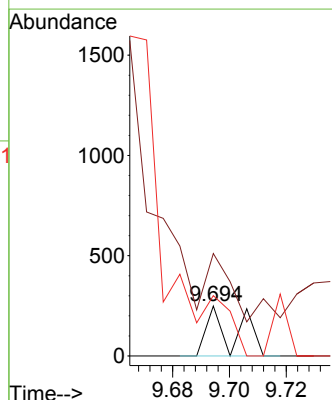
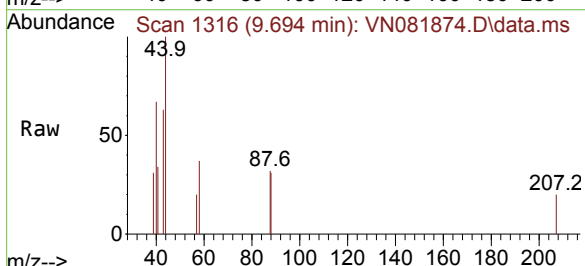
Tgt Ion: 88 Resp: 171

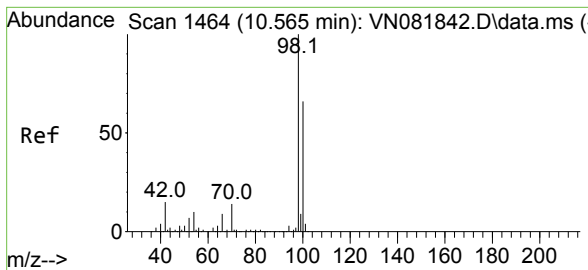
Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 0.0 50.6 76.0#

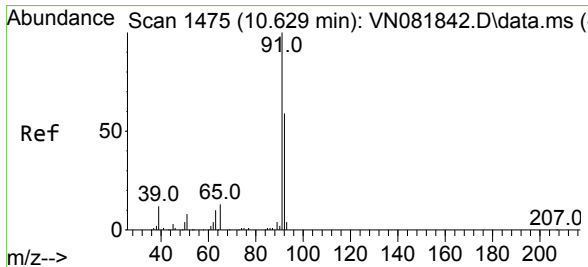
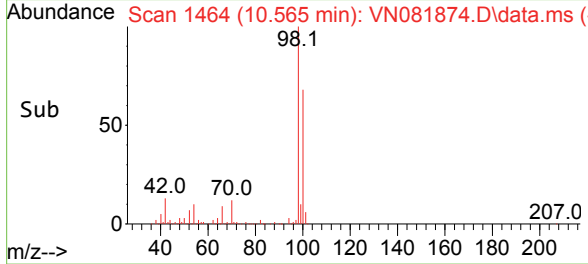
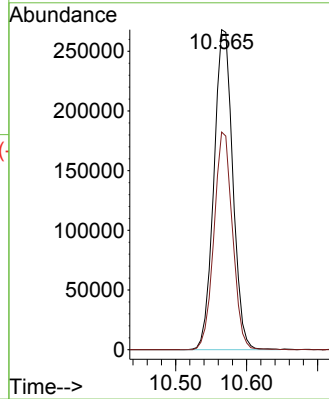
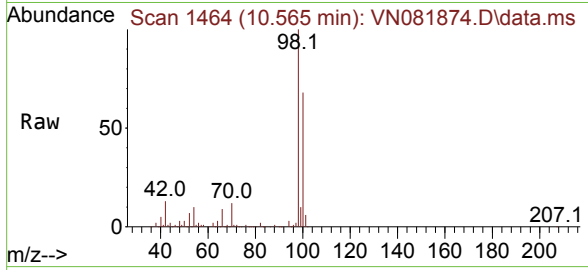




#50
Toluene-d8
Concen: 51.322 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

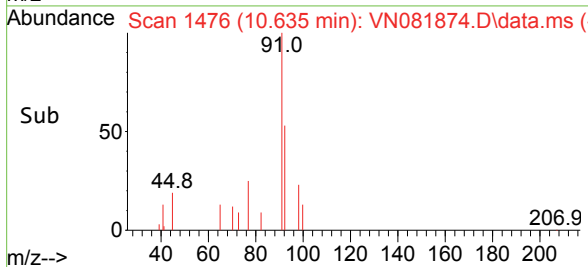
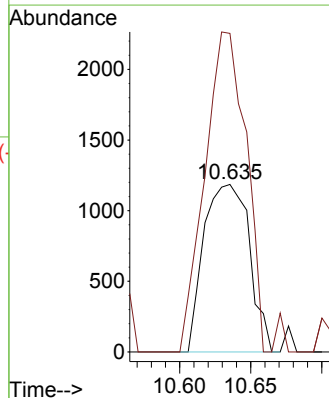
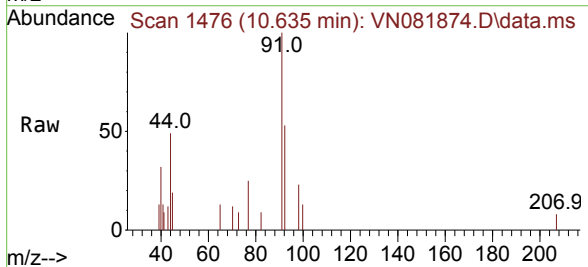
Instrument :
MSVOA_N
ClientSampleId :
41CDL

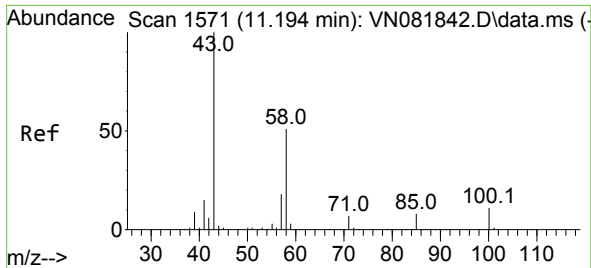
Tgt Ion: 98 Resp: 494310
Ion Ratio Lower Upper
98 100
100 66.7 51.8 77.6



#52
Toluene
Concen: 0.369 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 92 Resp: 2645
Ion Ratio Lower Upper
92 100
91 173.2 136.7 205.1

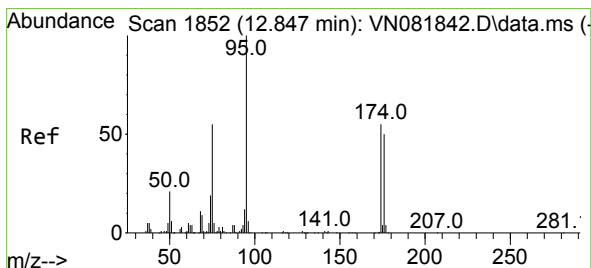
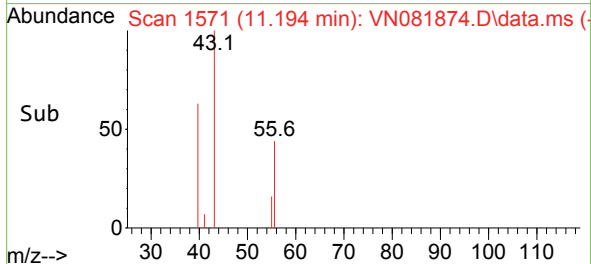
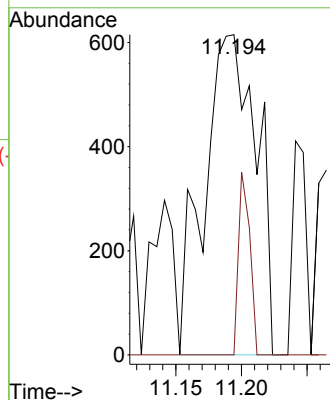
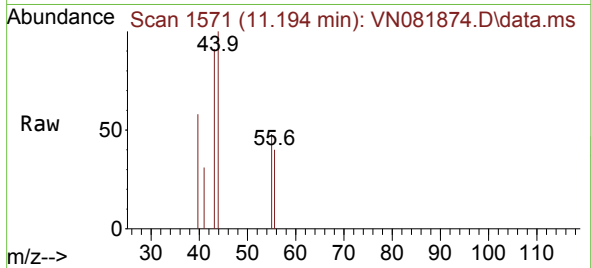




#59
2-Hexanone
Concen: 0.501 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

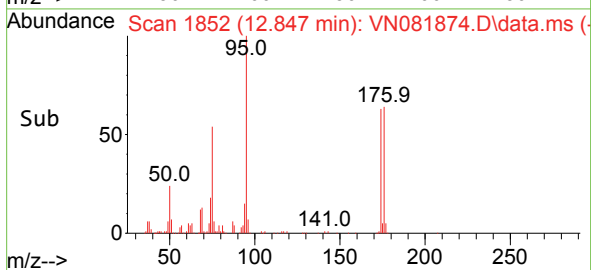
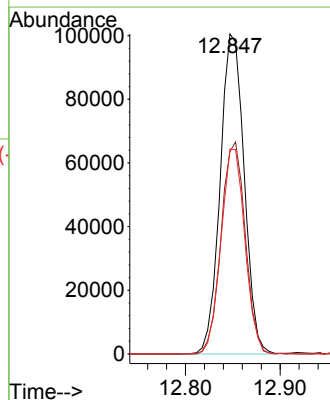
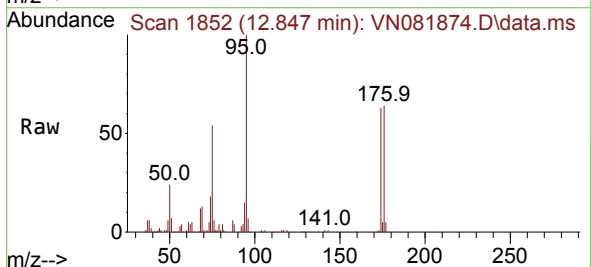
Instrument :
MSVOA_N
ClientSampleId :
41CDL

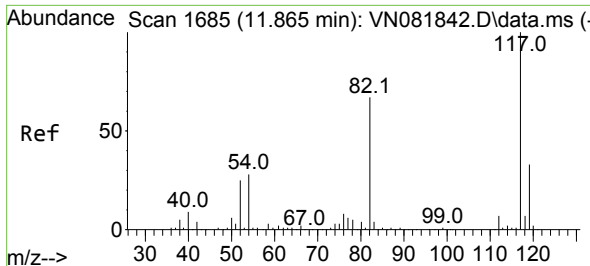
Tgt Ion: 43 Resp: 1704
Ion Ratio Lower Upper
43 100
58 12.3 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 46.540 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion: 95 Resp: 177198
Ion Ratio Lower Upper
95 100
174 66.4 0.0 160.6
176 63.9 0.0 152.8

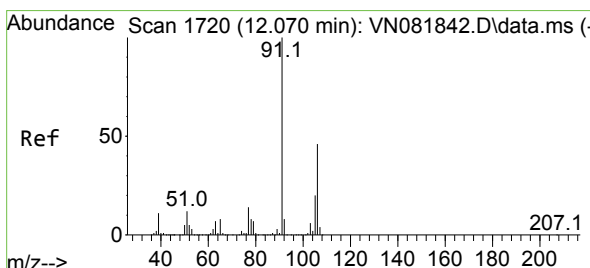
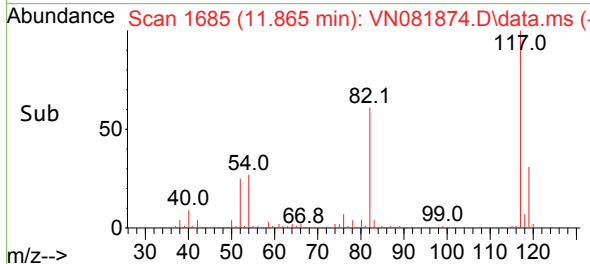
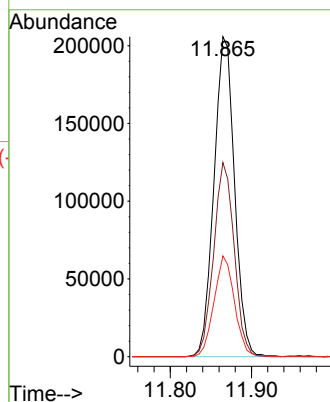
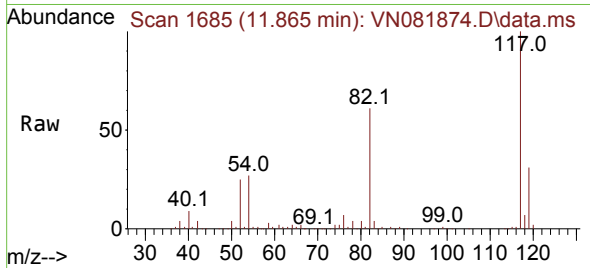




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11719
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

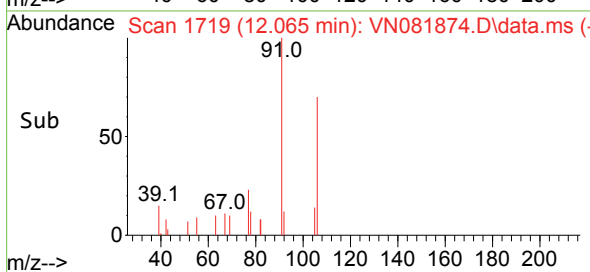
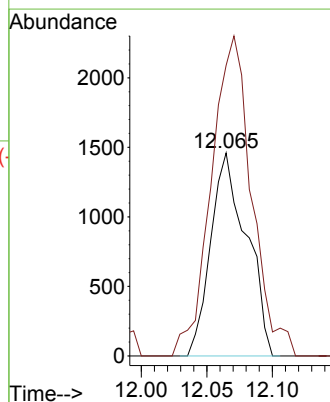
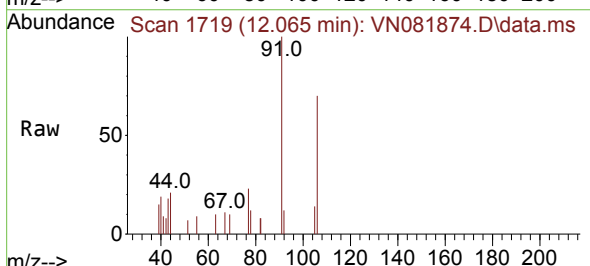
Instrument :
MSVOA_N
ClientSampleId :
41CDL

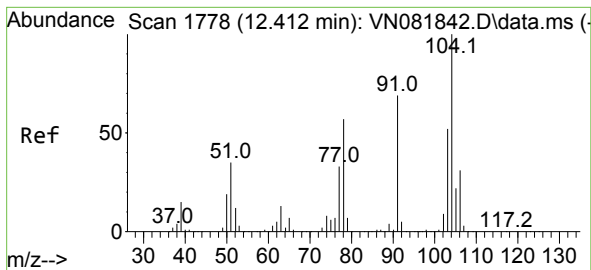
Tgt Ion:117 Resp: 362377
Ion Ratio Lower Upper
117 100
82 60.7 44.6 66.8
119 31.5 25.9 38.9



#68
m/p-Xylenes
Concen: 0.529 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

Tgt Ion:106 Resp: 2775
Ion Ratio Lower Upper
106 100
91 177.8 159.4 239.0





#70

Styrene

Concen: 0.207 ug/l

RT: 12.418 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

41CDL

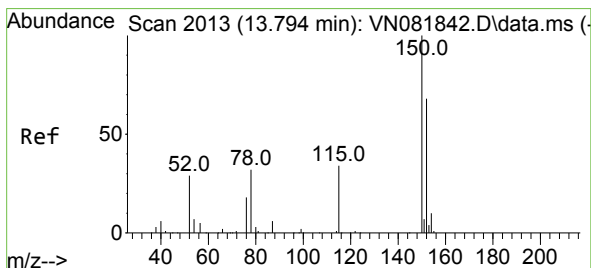
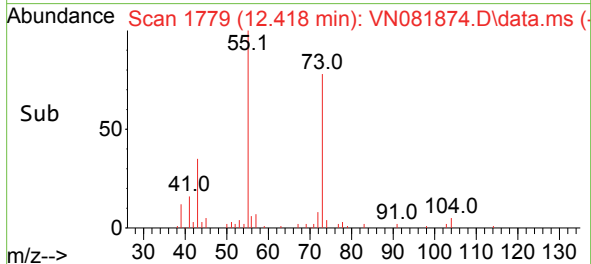
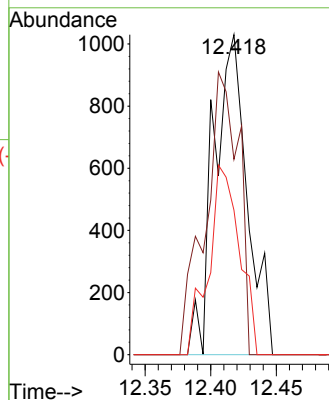
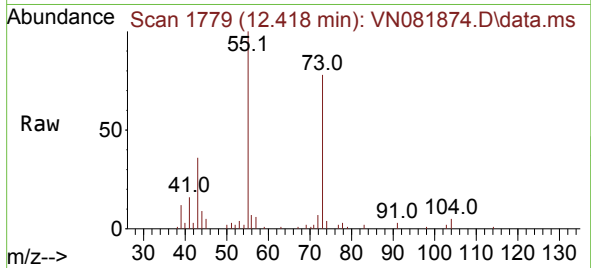
Tgt Ion:104 Resp: 1834

Ion Ratio Lower Upper

104 100

78 88.3 38.6 58.0#

103 54.6 43.8 65.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

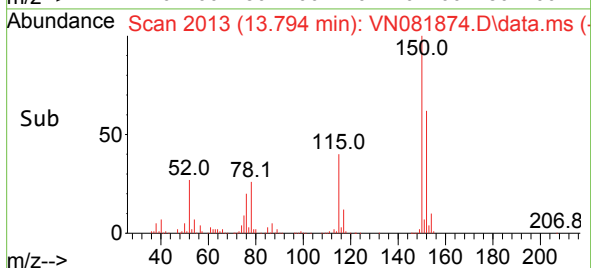
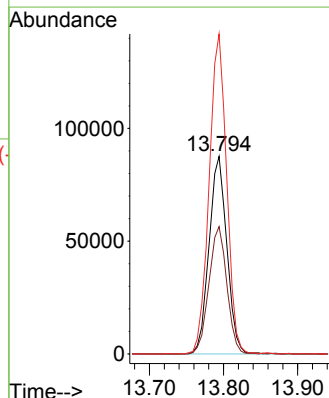
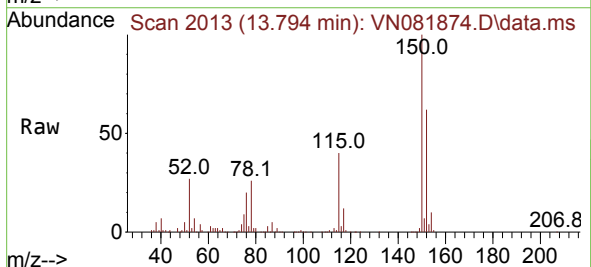
Tgt Ion:152 Resp: 146595

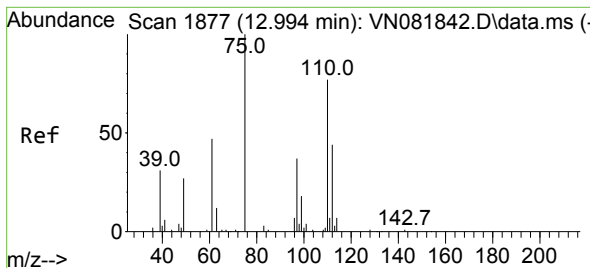
Ion Ratio Lower Upper

152 100

115 64.8 30.4 91.3

150 158.7 0.0 353.2





#76

1,2,3-Trichloropropane

Concen: 24.665 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

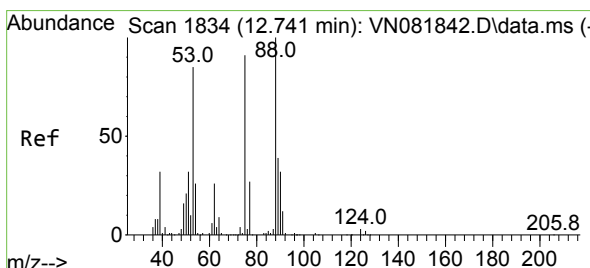
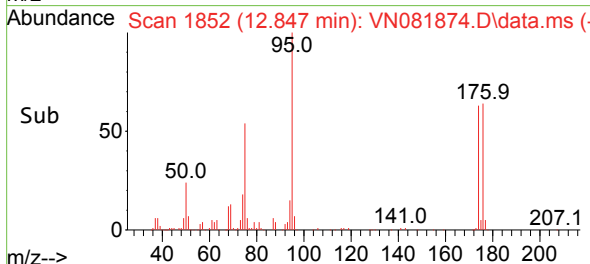
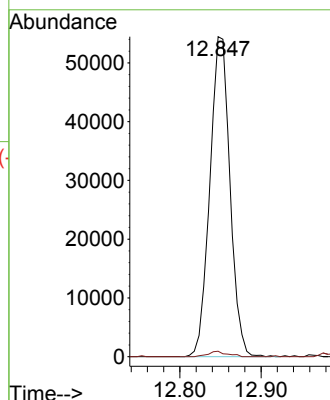
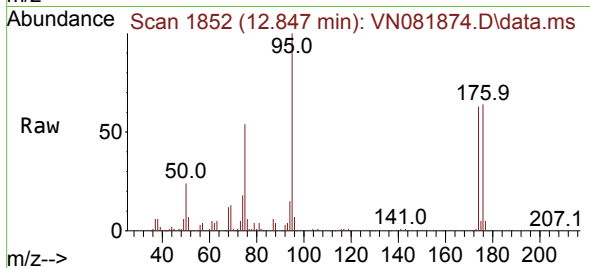
41CDL

Tgt Ion: 75 Resp: 93750

Ion Ratio Lower Upper

75 100

77 1.6 90.5 271.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 50.542 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

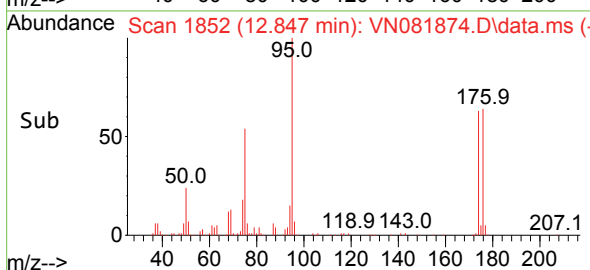
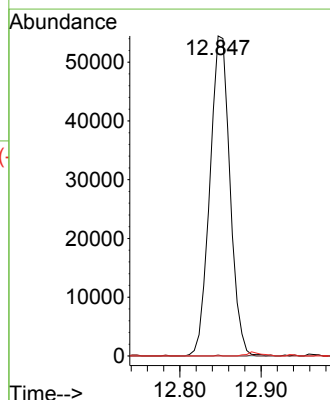
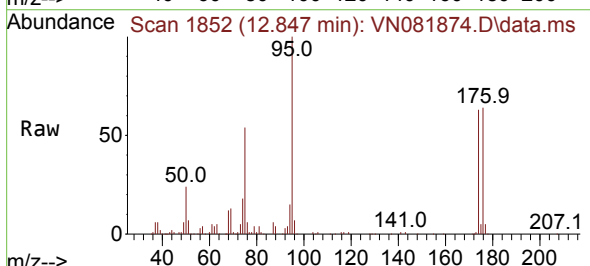
Tgt Ion: 75 Resp: 93750

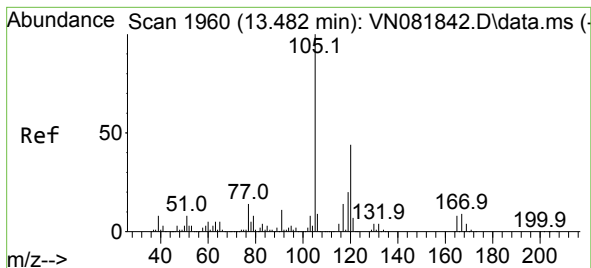
Ion Ratio Lower Upper

75 100

53 0.1 72.9 109.3#

89 0.0 39.1 58.7#





#84

1,2,4-Trimethylbenzene

Concen: 0.272 ug/l

RT: 13.488 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

Instrument :

MSVOA_N

ClientSampleId :

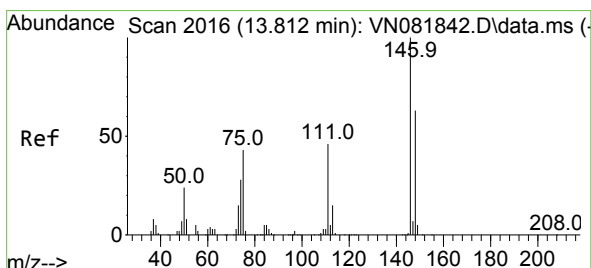
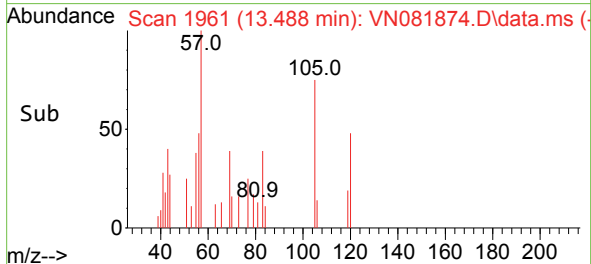
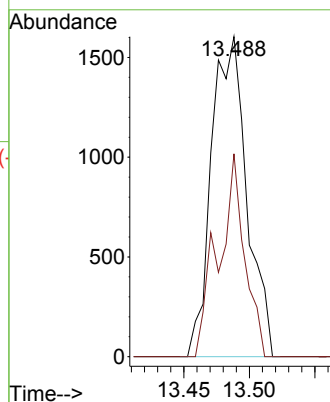
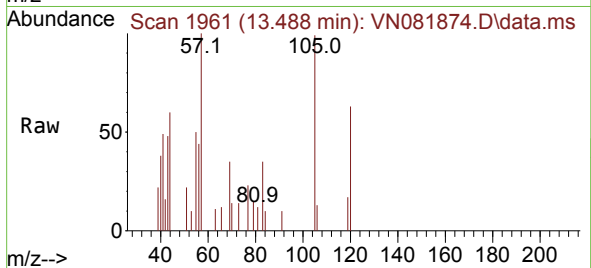
41CDL

Tgt Ion:105 Resp: 3001

Ion Ratio Lower Upper

105 100

120 47.4 22.9 68.7



#88

1,4-Dichlorobenzene

Concen: 0.224 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.006 min

Lab File: VN081874.D

Acq: 26 Apr 2024 13:44

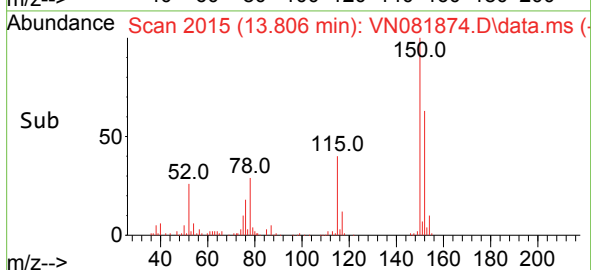
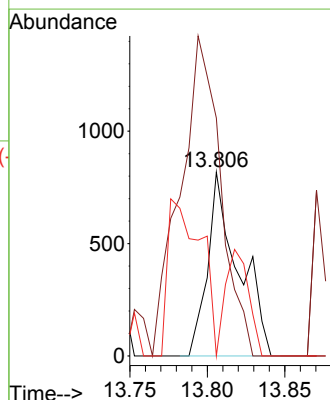
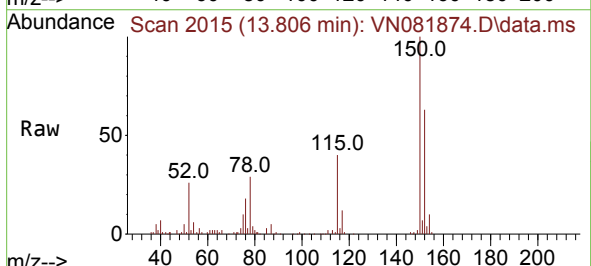
Tgt Ion:146 Resp: 1125

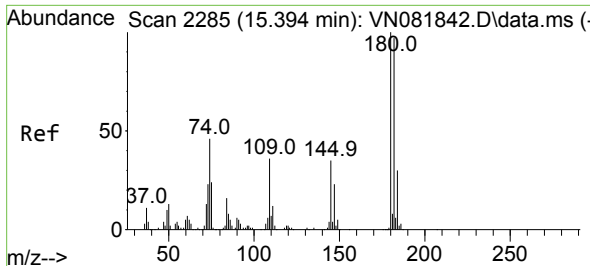
Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

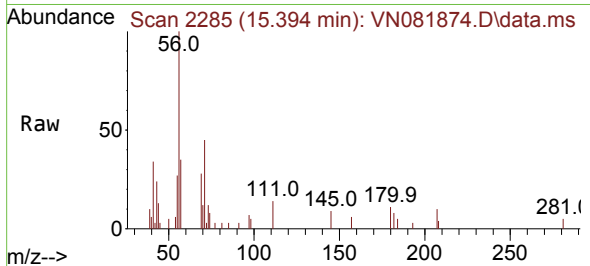
148 43.6 31.3 93.9



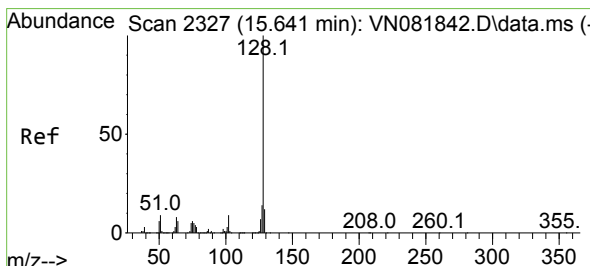
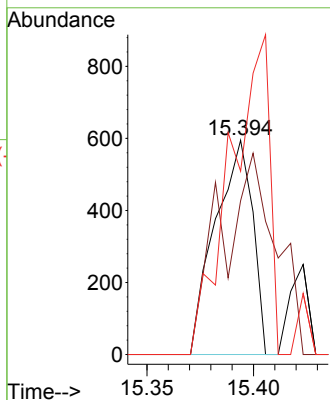
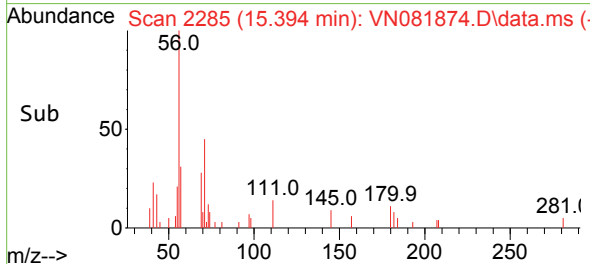


#93
1,2,4-Trichlorobenzene
Concen: 0.266 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44

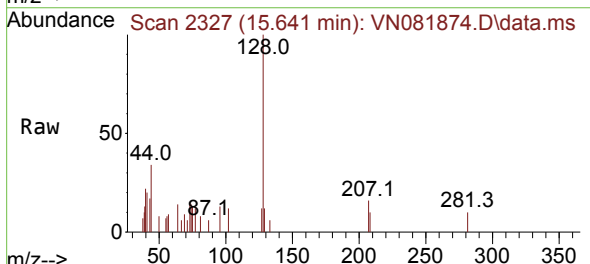
Instrument :
MSVOA_N
ClientSampleId :
41CDL



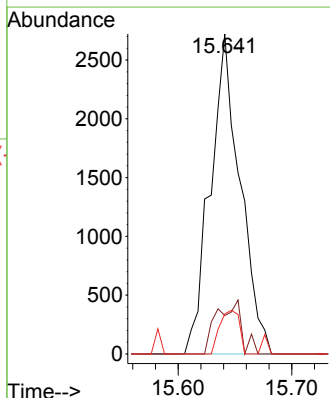
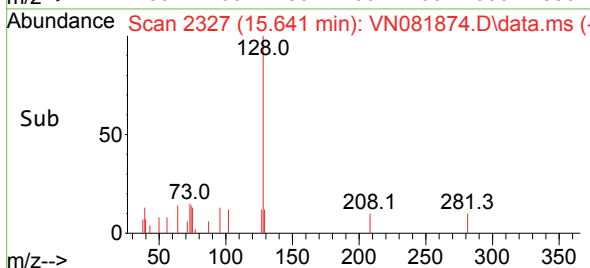
Tgt Ion:180 Resp: 727
Ion Ratio Lower Upper
180 100
182 138.1 46.7 140.0
145 156.0 16.2 48.6#

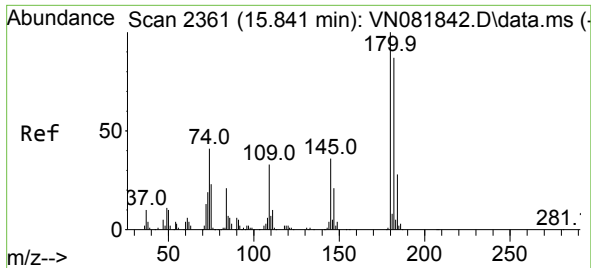


#95
Naphthalene
Concen: 0.480 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN081874.D
Acq: 26 Apr 2024 13:44



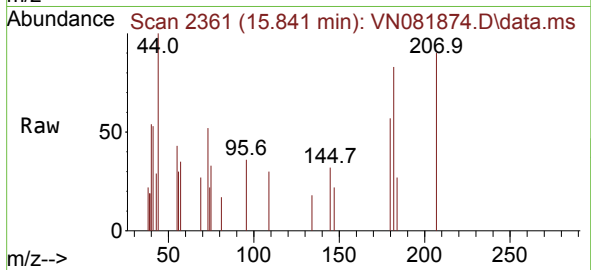
Tgt Ion:128 Resp: 4954
Ion Ratio Lower Upper
128 100
127 14.0 10.1 15.1
129 9.0 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 0.265 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN081874.D
 Acq: 26 Apr 2024 13:44

Instrument :
 MSVOA_N
 ClientSampleId :
 41CDL



Tgt Ion:	180	Resp:	694
Ion	Ratio	Lower	Upper
180	100		
182	162.7	46.0	137.8#
145	51.4	17.1	51.3#

