

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061623\
 Data File : VN078254.D
 Acq On : 16 Jun 2023 12:50
 Operator : JC\MD
 Sample : 03299-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

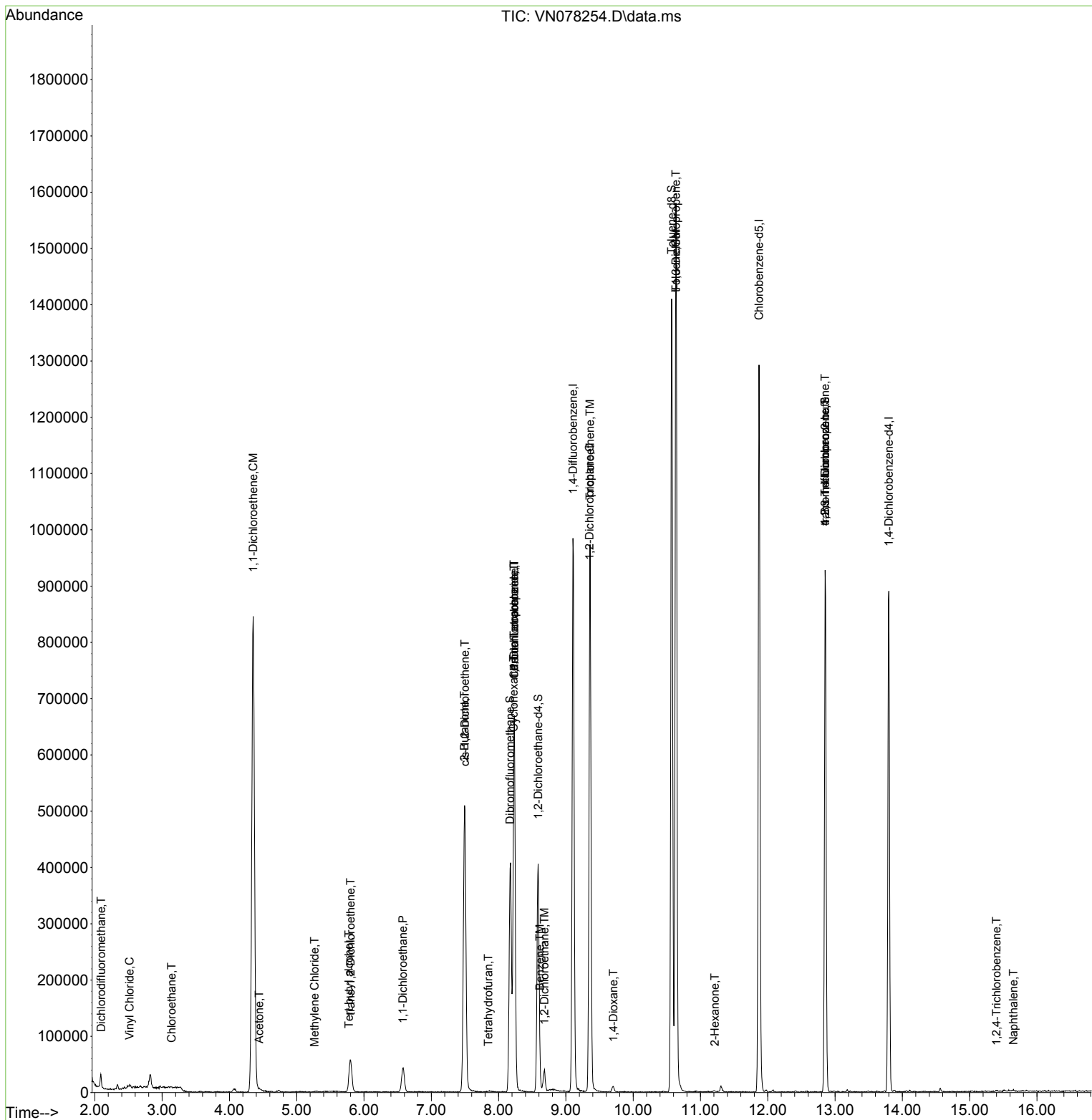
Quant Time: Jun 17 02:21:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	472657	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	853196	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	758829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	241824	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	333902	52.984	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.960%	
35) Dibromofluoromethane	8.171	113	302332	56.043	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 112.080%	
50) Toluene-d8	10.571	98	1013658	48.741	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.480%	
62) 4-Bromofluorobenzene	12.853	95	317194	49.061	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.120%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.095	85	1629	0.305	ug/l	91
3) Chloromethane	2.371	50	758	Below Cal		96
4) Vinyl Chloride	2.518	62	4061	0.580	ug/l #	60
6) Chloroethane	3.142	64	1470	0.308	ug/l #	43
11) Tert butyl alcohol	5.777	59	908	1.043	ug/l #	72
12) 1,1-Dichloroethene	4.353	96	507031	98.235	ug/l	92
16) Acetone	4.442	43	685	0.378	ug/l #	74
20) Methylene Chloride	5.265	84	1629	0.272	ug/l #	66
21) trans-1,2-Dichloroethene	5.800	96	36944	6.636	ug/l	88
24) 1,1-Dichloroethane	6.577	63	60685	6.207	ug/l	98
25) 2-Butanone	7.494	43	635	0.228	ug/l #	30
27) cis-1,2-Dichloroethene	7.500	96	316081	47.600	ug/l	97
29) Tetrahydrofuran	7.847	42	583	0.313	ug/l #	20
31) Cyclohexane	8.224	56	11171	1.382	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	41324	5.340	ug/l #	48
38) Carbon Tetrachloride	8.230	117	52220	6.391	ug/l #	15
40) Benzene	8.612	78	5669	0.245	ug/l #	84
42) 1,2-Dichloroethane	8.682	62	35845	4.525	ug/l	97
44) Trichloroethene	9.359	130	335004	54.912	ug/l	98
45) 1,2-Dichloropropane	9.353	63	1258	0.219	ug/l #	1
49) 1,4-Dioxane	9.706	88	8016	78.613	ug/l #	85
52) Toluene	10.635	92	698005	47.856	ug/l	96
53) t-1,3-Dichloropropene	10.635	75	8898	1.086	ug/l #	1
59) 2-Hexanone	11.212	43	1164	0.275	ug/l	63
75) 1,1,2,2-Tetrachloroethane	12.953	83	136	Below Cal	#	40
76) 1,2,3-Trichloropropane	12.853	75	175995	30.786	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	175995	94.583	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.400	180	636	0.203	ug/l #	79
94) Hexachlorobutadiene	15.517	225	405	Below Cal		83
95) Naphthalene	15.653	128	2456	0.234	ug/l #	86

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

Quant Time: Jun 17 02:21:57 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078254.D

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Instrument :

MSVOA_N

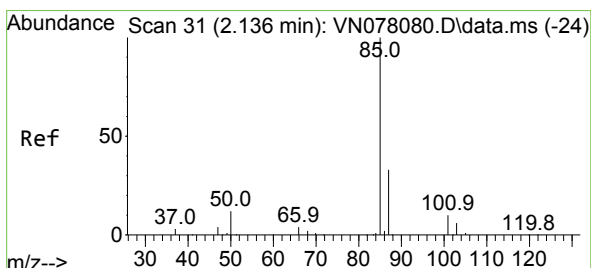
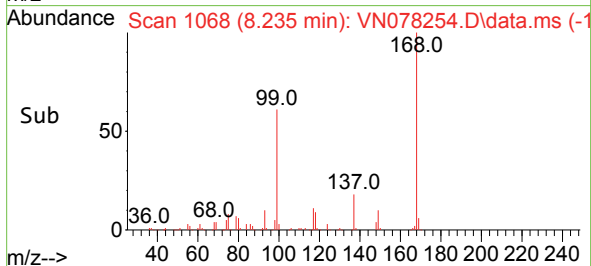
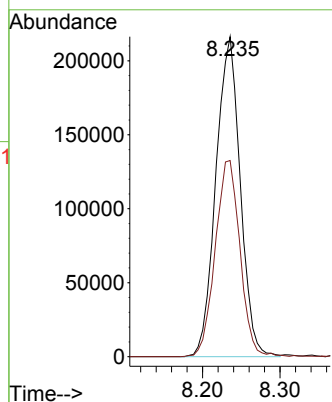
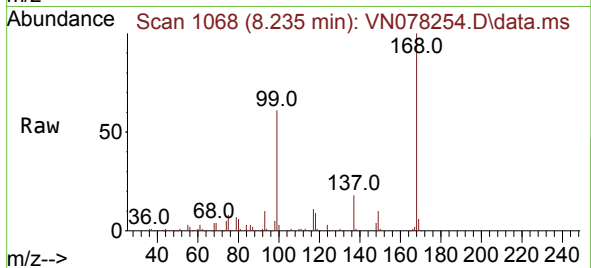
ClientSampleId :

Tgt Ion:168 Resp: 472657

Ion Ratio Lower Upper

168 100

99 61.3 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.305 ug/l

RT: 2.095 min Scan# 24

Delta R.T. -0.041 min

Lab File: VN078254.D

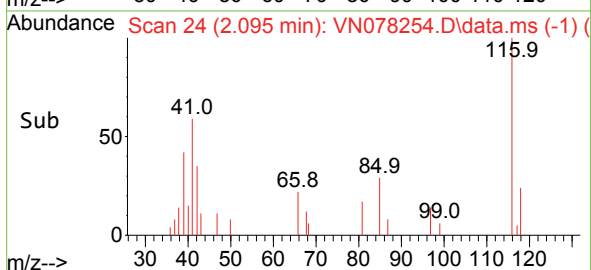
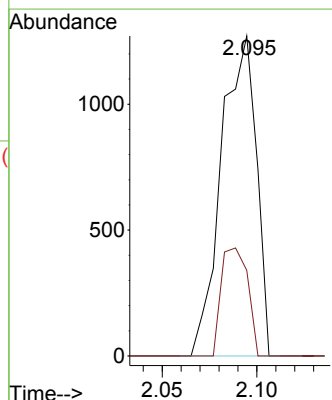
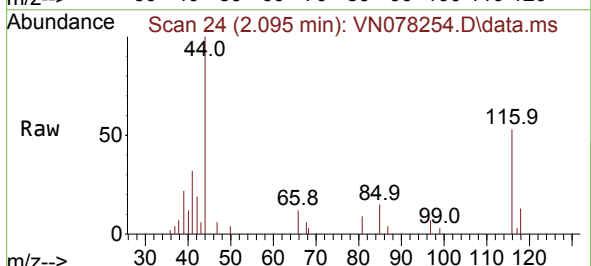
Acq: 16 Jun 2023 12:50

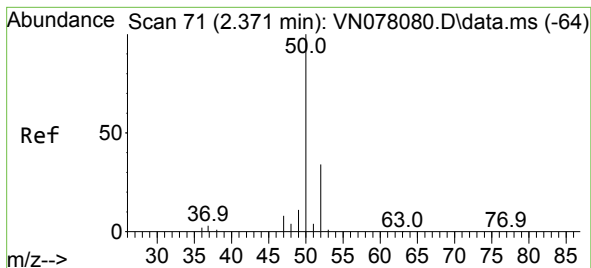
Tgt Ion: 85 Resp: 1629

Ion Ratio Lower Upper

85 100

87 26.8 15.8 47.4





#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078254.D

Acq: 16 Jun 2023 12:50

Instrument :

MSVOA_N

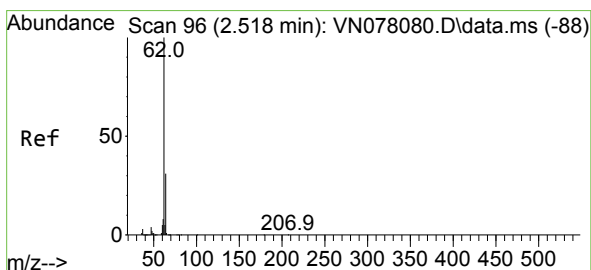
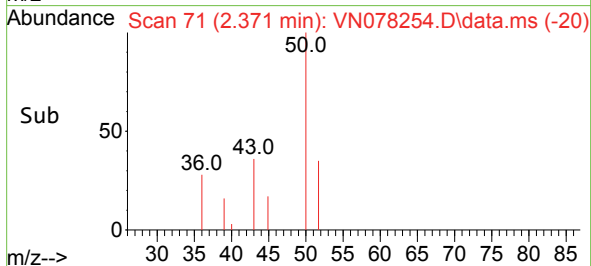
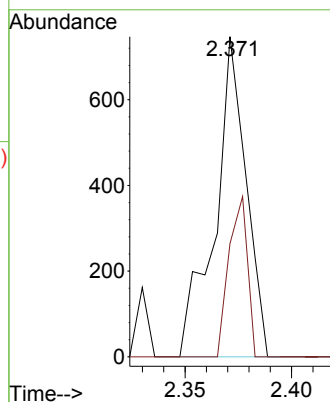
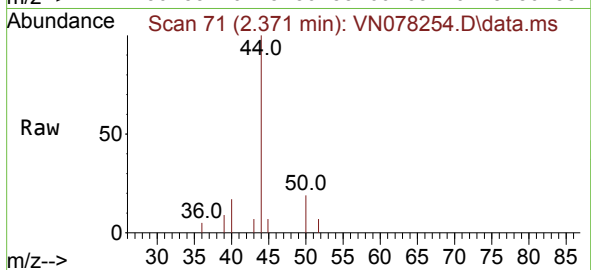
ClientSampleId :

Tgt Ion: 50 Resp: 758

Ion Ratio Lower Upper

50 100

52 35.3 26.5 39.7



#4

Vinyl Chloride

Concen: 0.580 ug/l

RT: 2.518 min Scan# 96

Delta R.T. -0.000 min

Lab File: VN078254.D

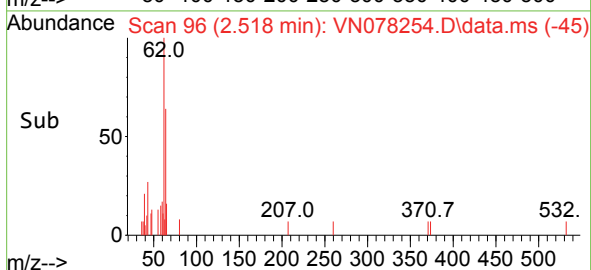
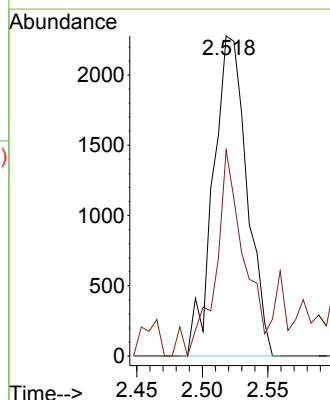
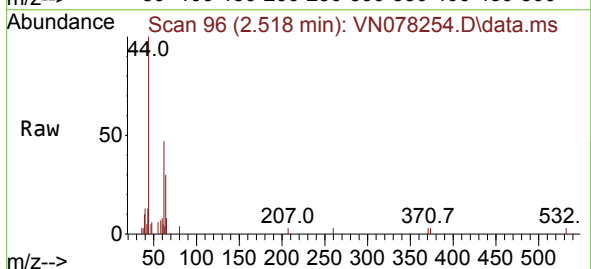
Acq: 16 Jun 2023 12:50

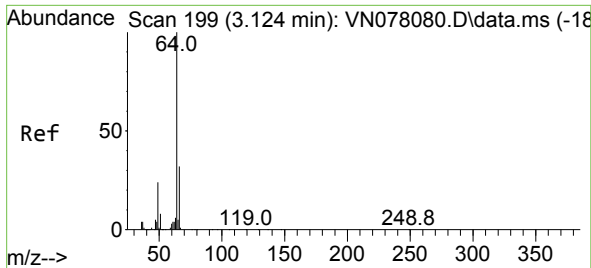
Tgt Ion: 62 Resp: 4061

Ion Ratio Lower Upper

62 100

64 55.1 26.2 39.2#

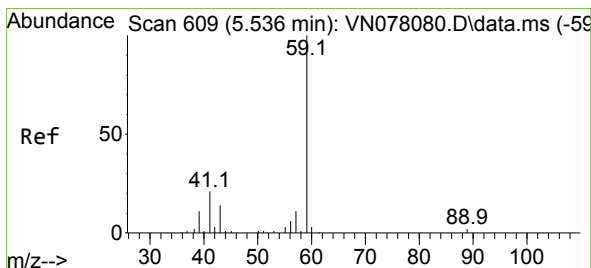
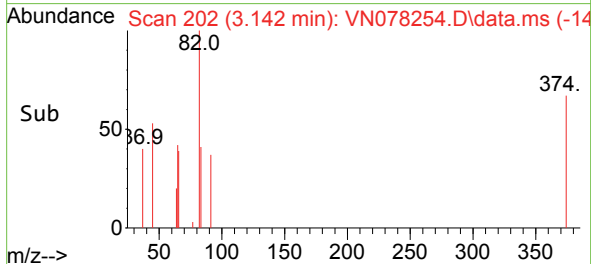
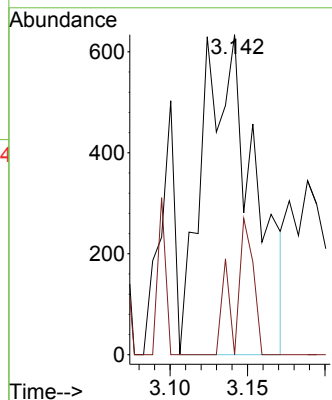
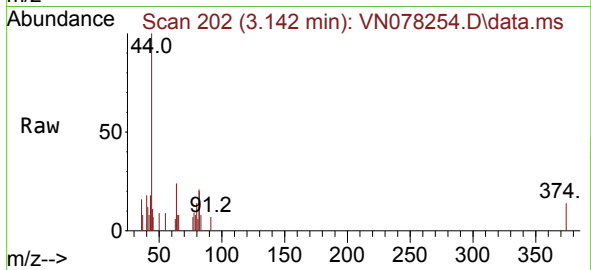




#6
Chloroethane
Concen: 0.308 ug/l
RT: 3.142 min Scan# 20
Delta R.T. 0.018 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

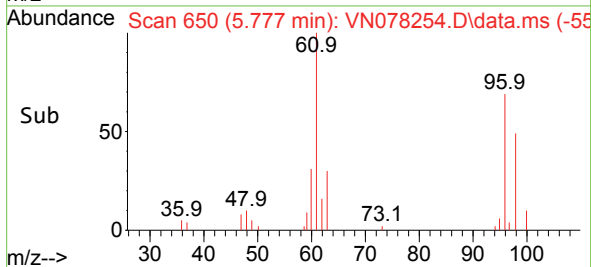
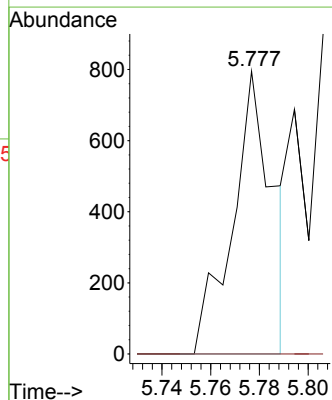
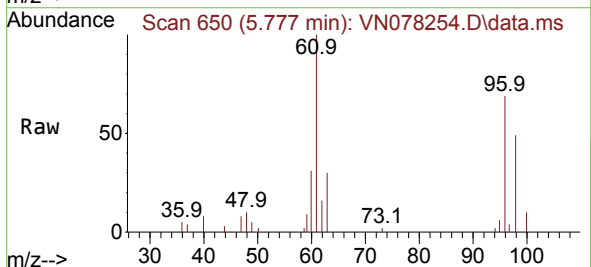
Instrument :
MSVOA_N
ClientSampleId :

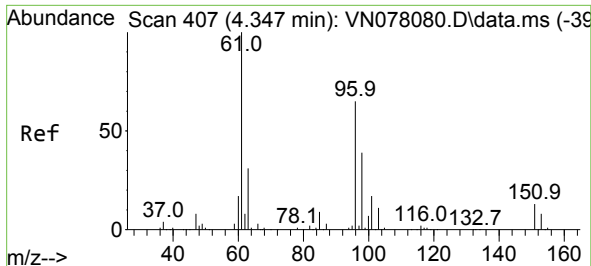
Tgt Ion: 64 Resp: 1470
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.043 ug/l
RT: 5.777 min Scan# 650
Delta R.T. 0.241 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 59 Resp: 908
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

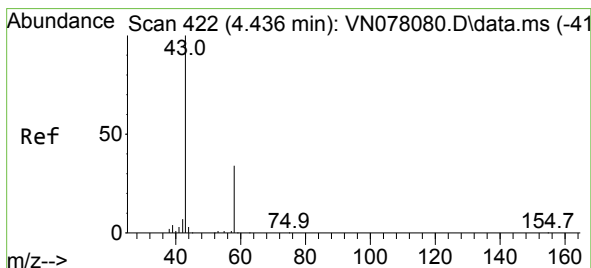
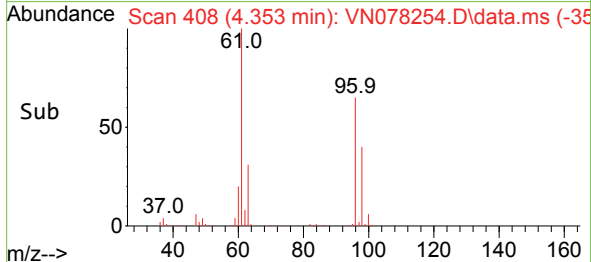
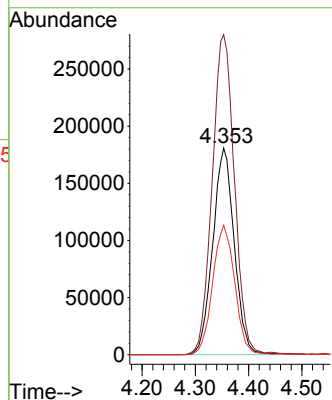
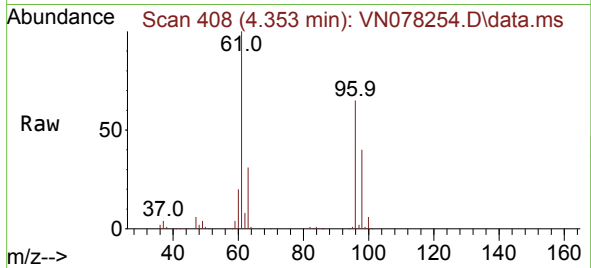




#12
1,1-Dichloroethene
Concen: 98.235 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

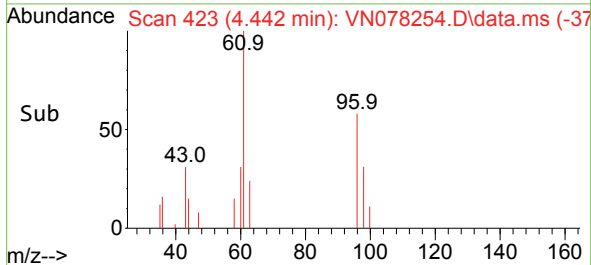
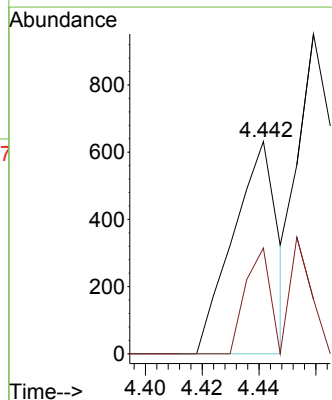
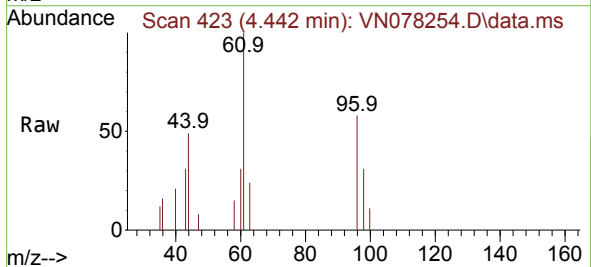
Instrument :
MSVOA_N
ClientSampleId :

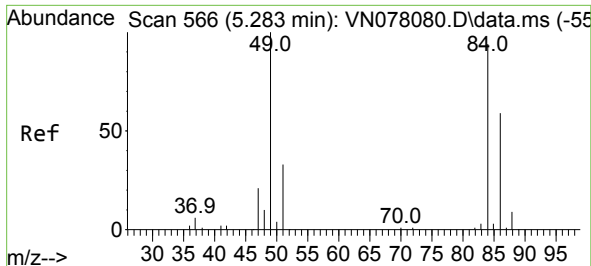
Tgt Ion: 96 Resp: 507031
Ion Ratio Lower Upper
96 100
61 155.0 112.7 169.1
98 62.7 51.2 76.8



#16
Acetone
Concen: 0.378 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

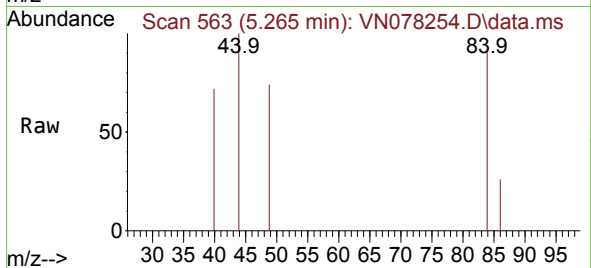
Tgt Ion: 43 Resp: 685
Ion Ratio Lower Upper
43 100
58 49.8 28.0 42.0#



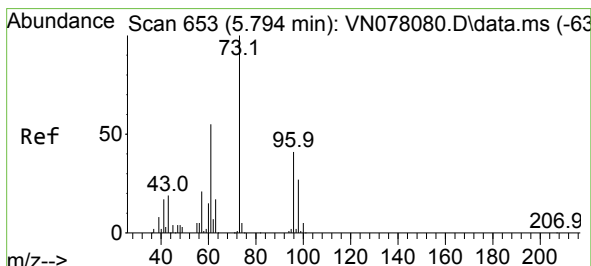
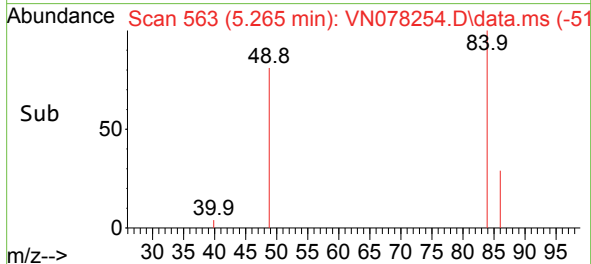
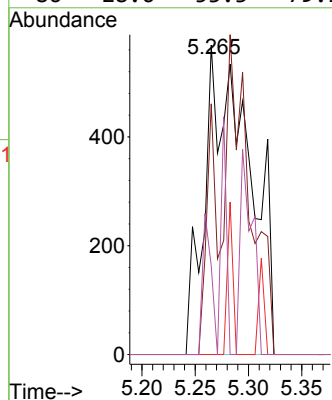


#20
Methylene Chloride
Concen: 0.272 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Instrument :
MSVOA_N
ClientSampleId :

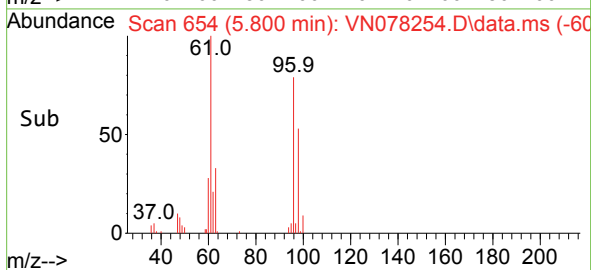
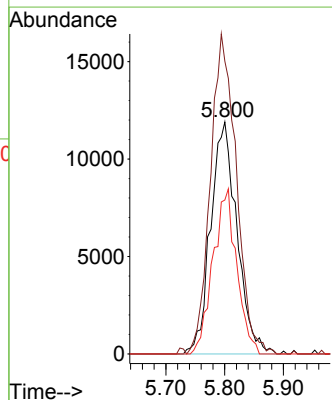
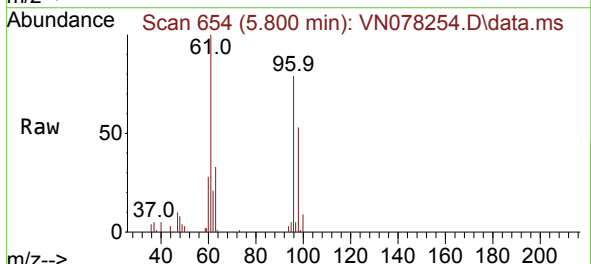


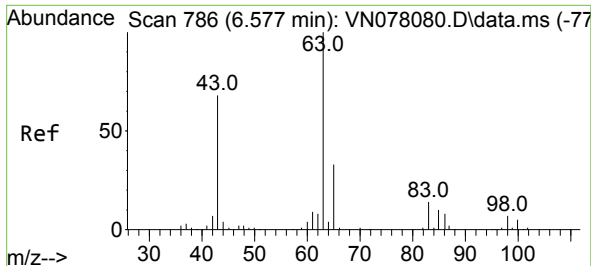
Tgt Ion: 84 Resp: 1629
Ion Ratio Lower Upper
84 100
49 81.0 79.7 119.5
51 0.0 25.2 37.8#
86 28.6 53.3 79.9#



#21
trans-1,2-Dichloroethene
Concen: 6.636 ug/l
RT: 5.800 min Scan# 654
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 96 Resp: 36944
Ion Ratio Lower Upper
96 100
61 126.2 90.1 135.1
98 66.4 46.4 69.6

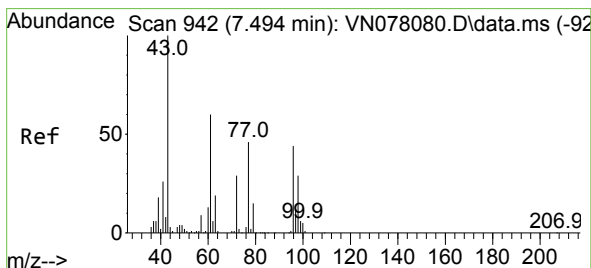
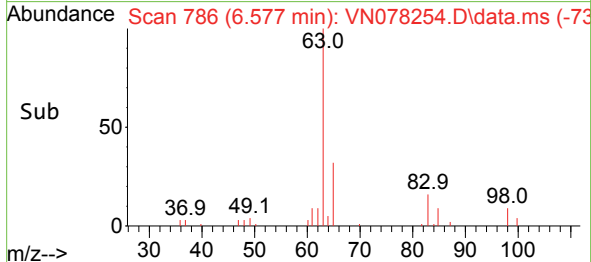
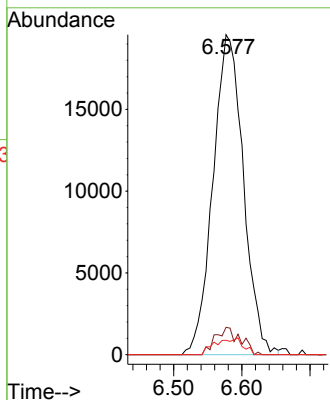
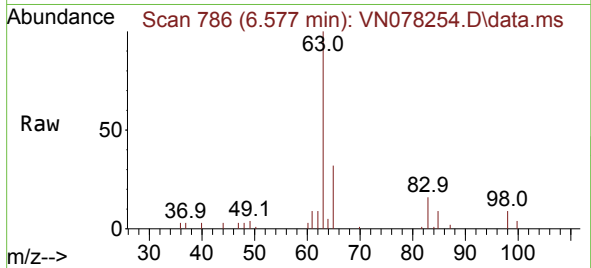




#24
1,1-Dichloroethane
Concen: 6.207 ug/l
RT: 6.577 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

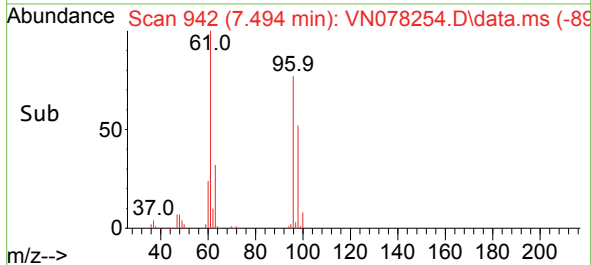
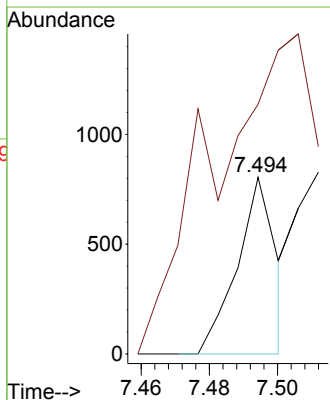
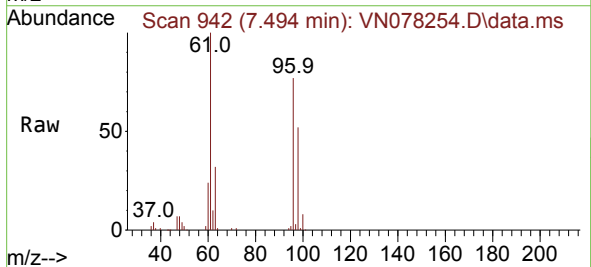
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ClientSampleId :

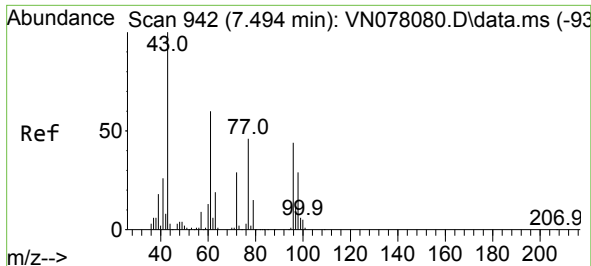
Tgt Ion: 63 Resp: 60685
Ion Ratio Lower Upper
63 100
98 8.5 3.9 11.7
100 4.5 2.5 7.4



#25
2-Butanone
Concen: 0.228 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

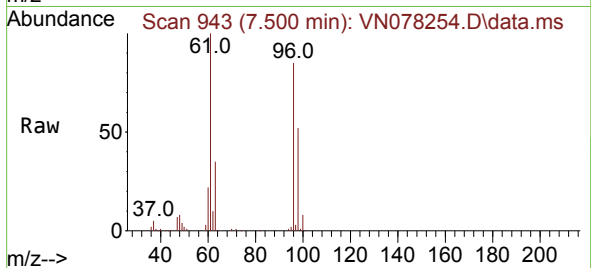
Tgt Ion: 43 Resp: 635
Ion Ratio Lower Upper
43 100
72 79.8 30.2 45.2#



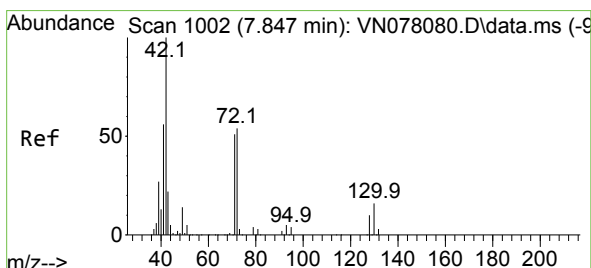
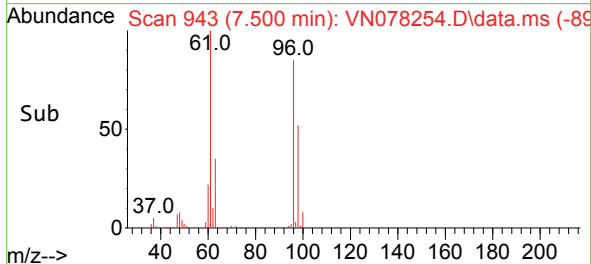
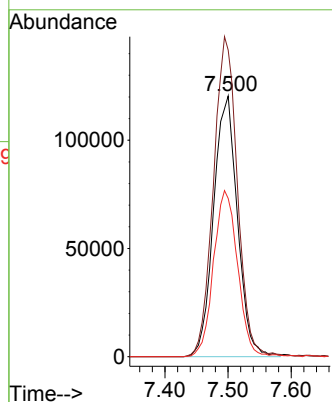


#27
 cis-1,2-Dichloroethene
 Concen: 47.600 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. 0.006 min
 Lab File: VN078254.D
 Acq: 16 Jun 2023 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

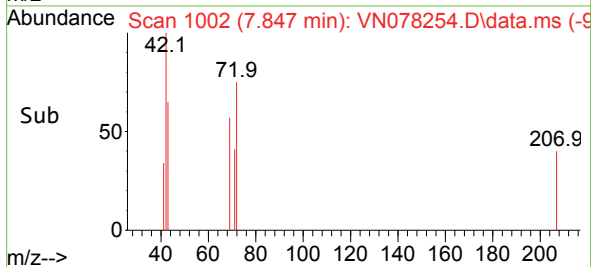
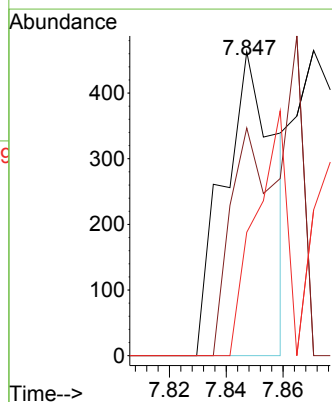
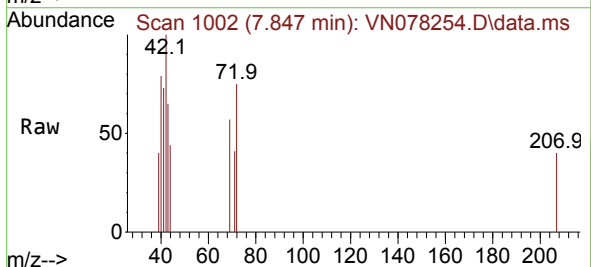


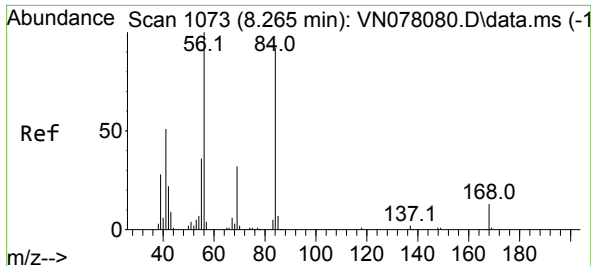
Tgt Ion: 96 Resp: 316081
 Ion Ratio Lower Upper
 96 100
 61 123.1 0.0 255.2
 98 64.5 0.0 128.8



#29
 Tetrahydrofuran
 Concen: 0.313 ug/l
 RT: 7.847 min Scan# 1002
 Delta R.T. -0.000 min
 Lab File: VN078254.D
 Acq: 16 Jun 2023 12:50

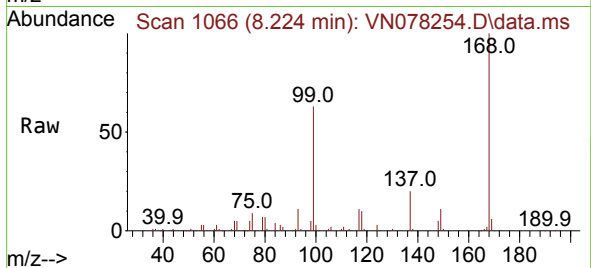
Tgt Ion: 42 Resp: 583
 Ion Ratio Lower Upper
 42 100
 72 0.0 49.8 74.6#
 71 0.0 47.4 71.2#



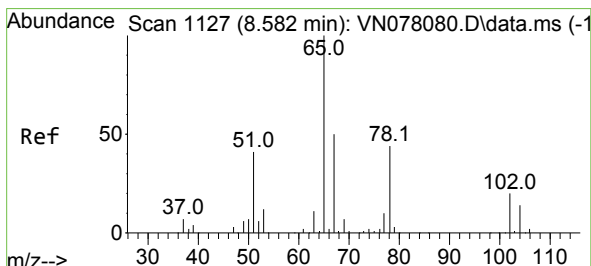
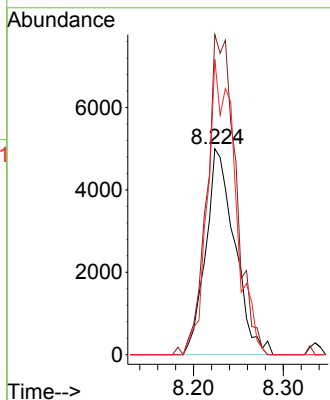
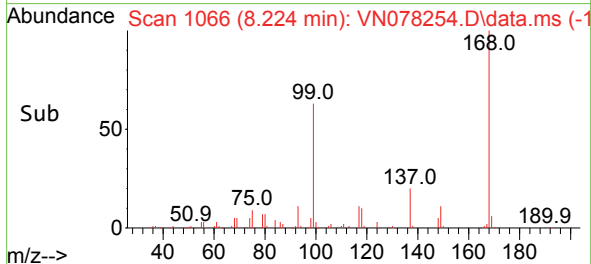


#31
Cyclohexane
Concen: 1.382 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Instrument :
MSVOA_N
ClientSampleId :

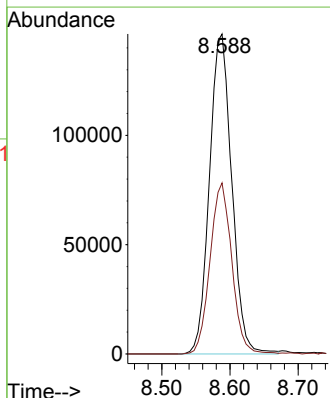
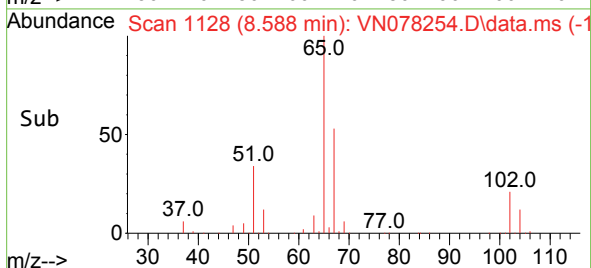
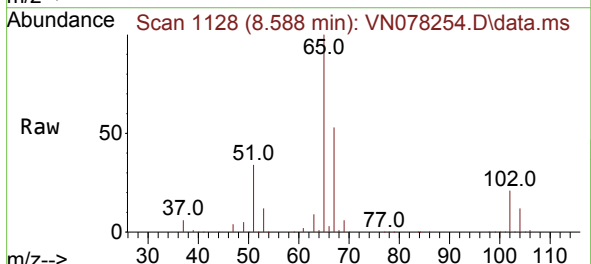


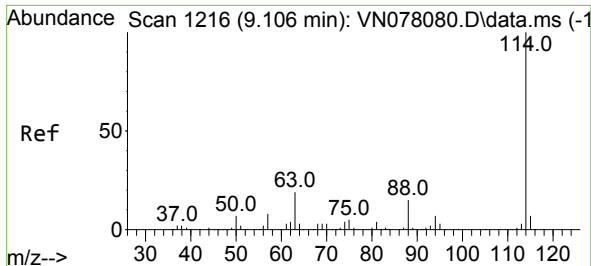
Tgt Ion: 56 Resp: 11171
Ion Ratio Lower Upper
56 100
69 155.5 26.8 40.2#
84 143.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.984 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 65 Resp: 333902
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.6

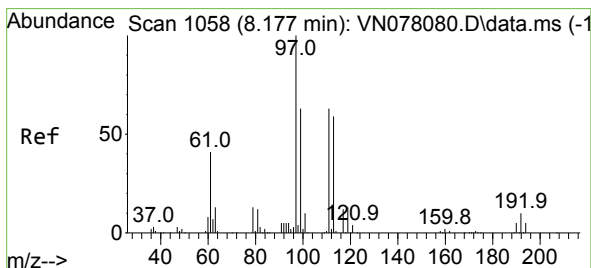
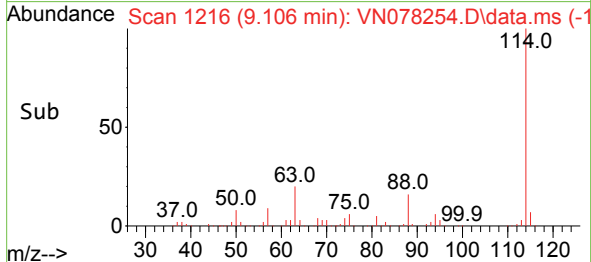
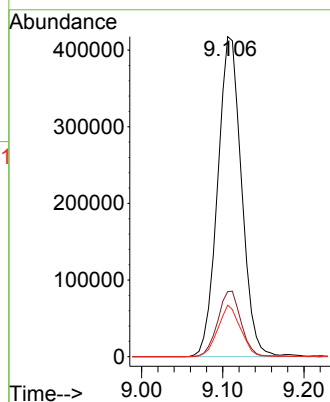
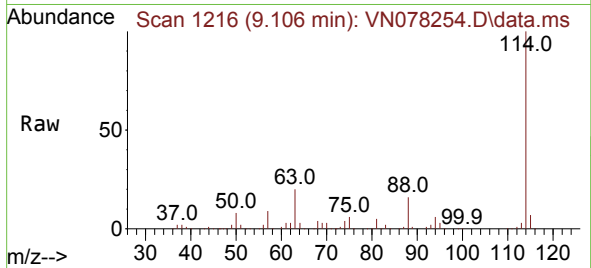




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

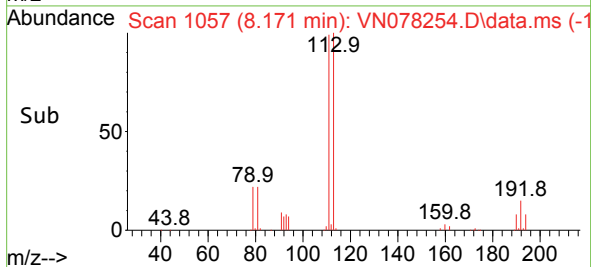
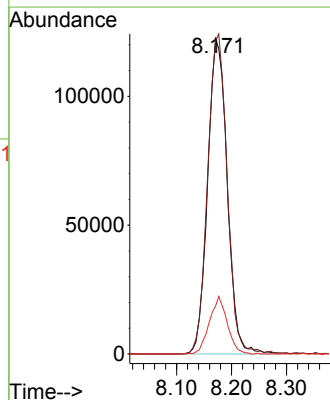
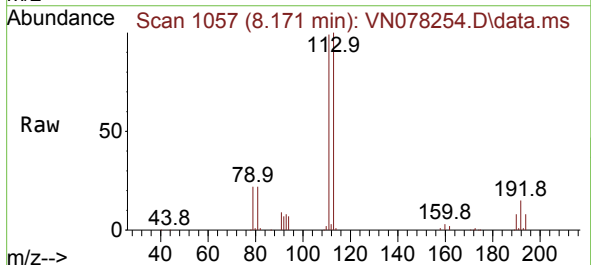
Instrument :
MSVOA_N
ClientSampleId :

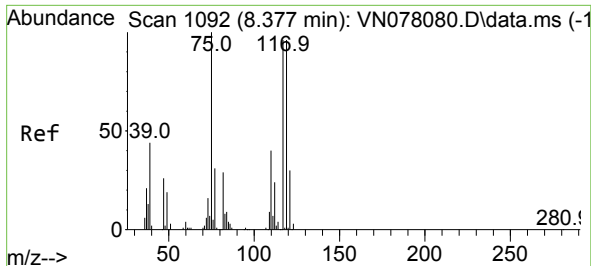
Tgt Ion:114 Resp: 853196
Ion Ratio Lower Upper
114 100
63 20.3 0.0 36.4
88 16.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 56.043 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion:113 Resp: 302332
Ion Ratio Lower Upper
113 100
111 101.5 82.6 123.8
192 16.6 12.7 19.1

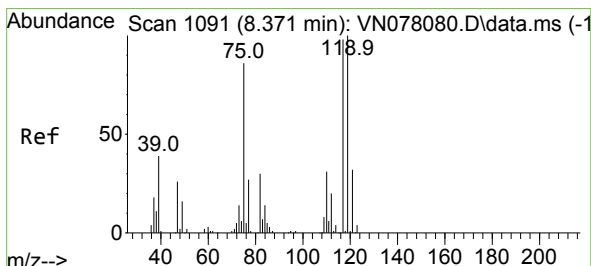
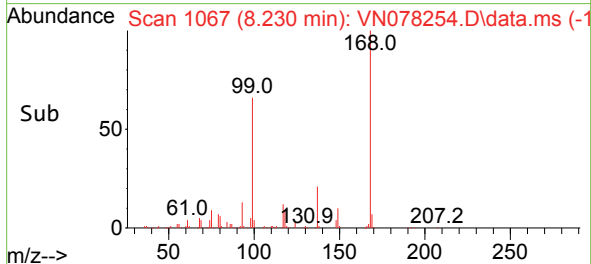
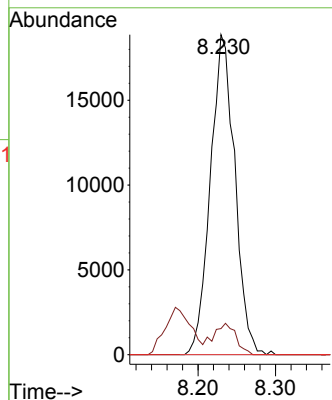
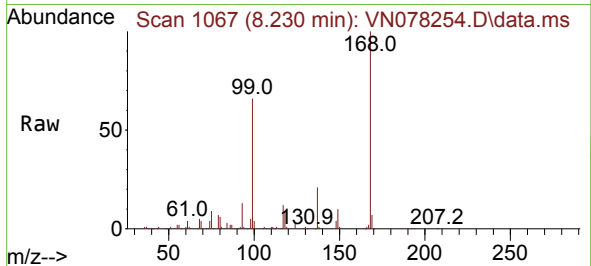




#36
1,1-Dichloropropene
Concen: 5.340 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

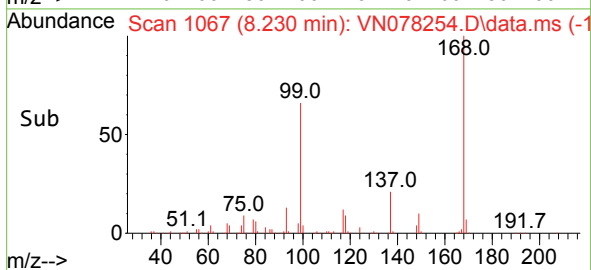
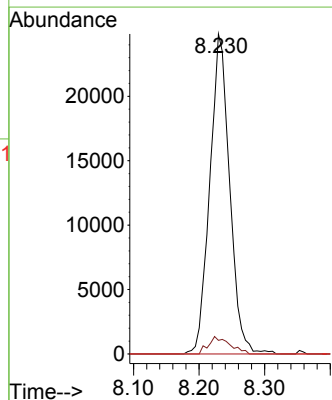
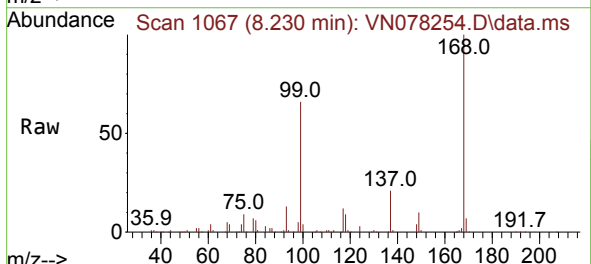
Instrument :
MSVOA_N
ClientSampleId :

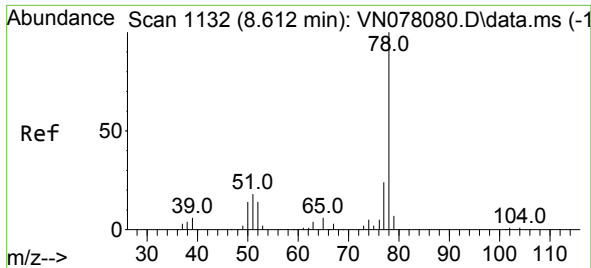
Tgt Ion: 75 Resp: 41324
Ion Ratio Lower Upper
75 100
110 9.2 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.391 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 117 Resp: 52220
Ion Ratio Lower Upper
117 100
119 4.2 77.3 115.9#
121 0.0 23.3 34.9#

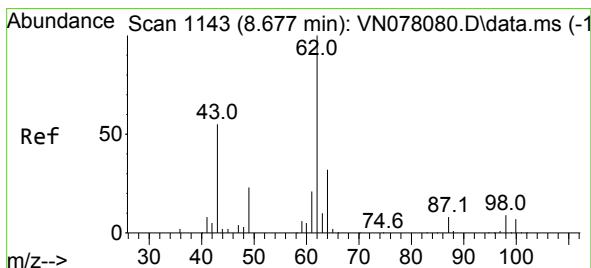
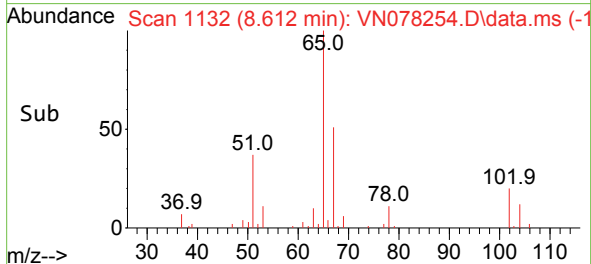
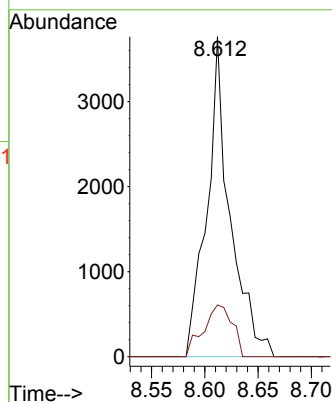
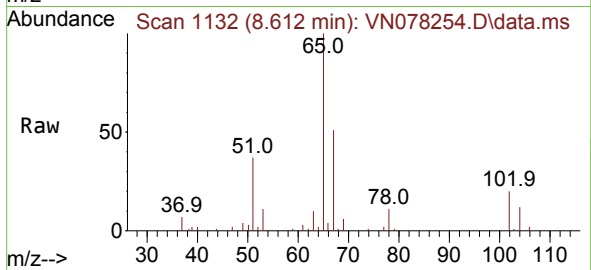




#40
Benzene
Concen: 0.245 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

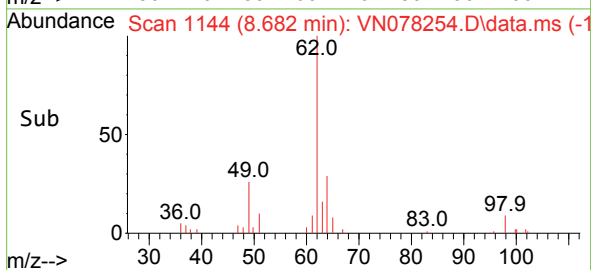
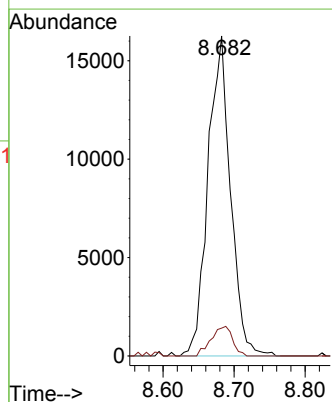
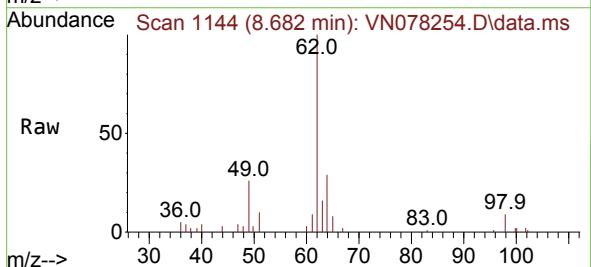
Instrument :
MSVOA_N
ClientSampleId :

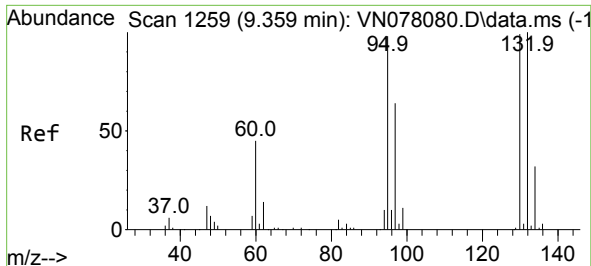
Tgt Ion: 78 Resp: 5669
Ion Ratio Lower Upper
78 100
77 16.2 19.0 28.6#



#42
1,2-Dichloroethane
Concen: 4.525 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 62 Resp: 35845
Ion Ratio Lower Upper
62 100
98 8.8 0.0 19.8

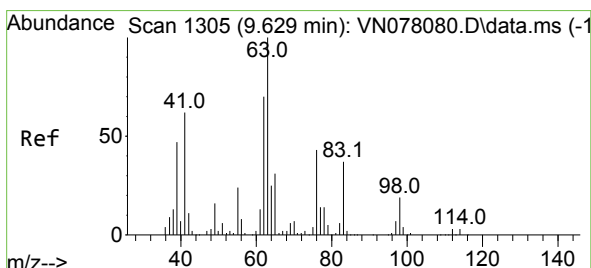
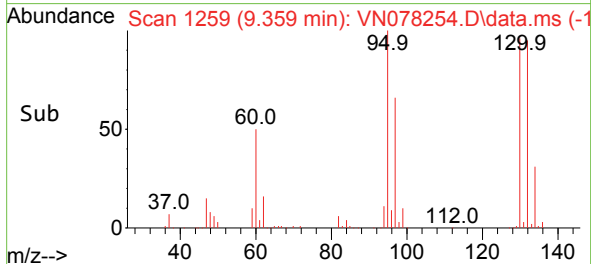
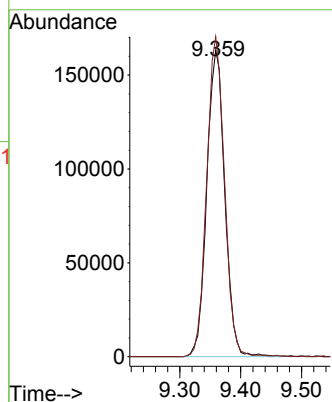
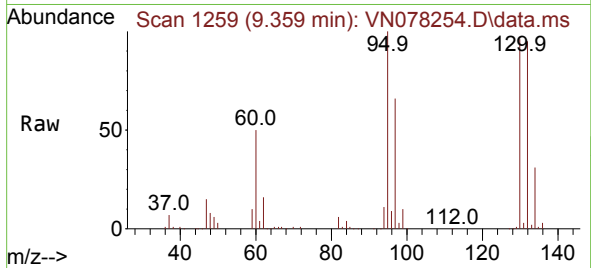




#44
Trichloroethene
Concen: 54.912 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

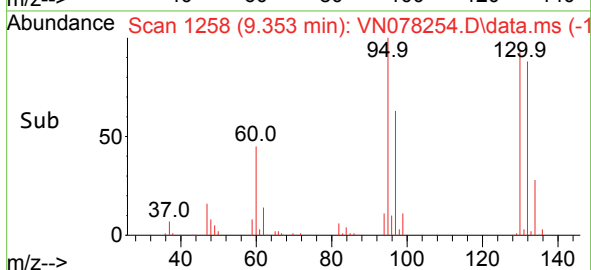
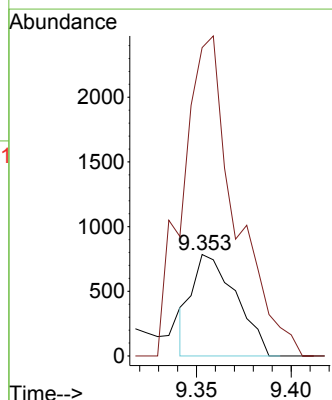
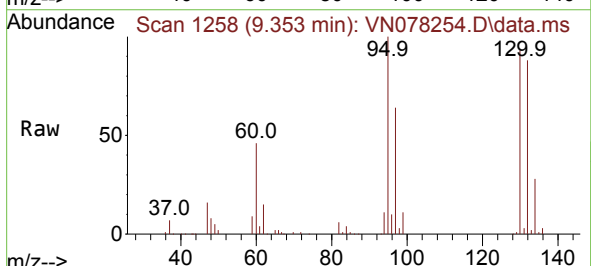
Instrument :
MSVOA_N
ClientSampleId :

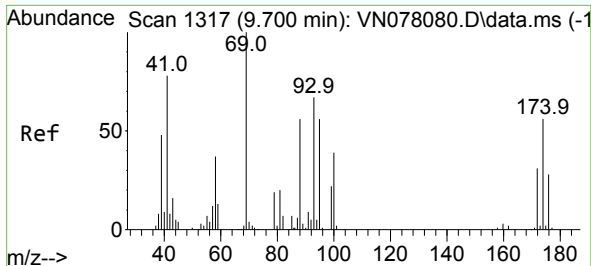
Tgt Ion:130 Resp: 335004
Ion Ratio Lower Upper
130 100
95 104.3 0.0 204.6



#45
1,2-Dichloropropane
Concen: 0.219 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.276 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 63 Resp: 1258
Ion Ratio Lower Upper
63 100
65 275.7 23.9 35.9#





#49

1,4-Dioxane

Concen: 78.613 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

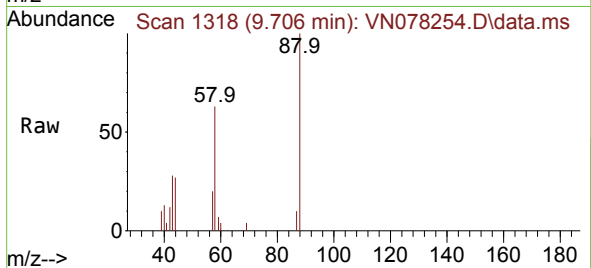
Lab File: VN078254.D

Acq: 16 Jun 2023 12:50

Instrument :

MSVOA_N

ClientSampleId :



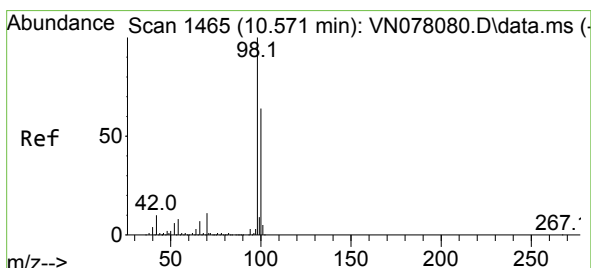
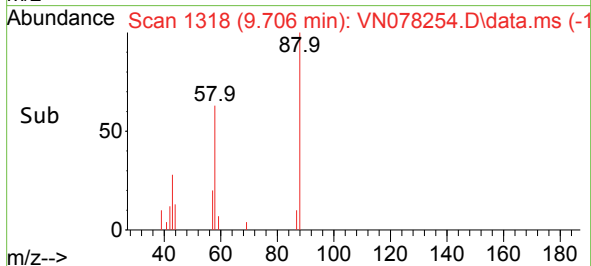
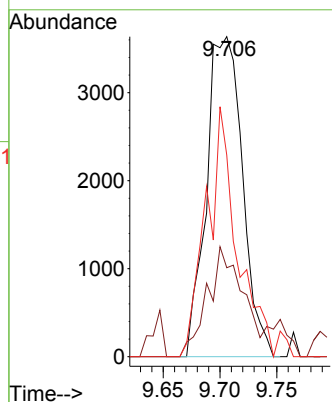
Tgt Ion: 88 Resp: 8016

Ion Ratio Lower Upper

88 100

43 33.7 17.0 25.6#

58 67.0 47.0 70.4



#50

Toluene-d8

Concen: 48.741 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078254.D

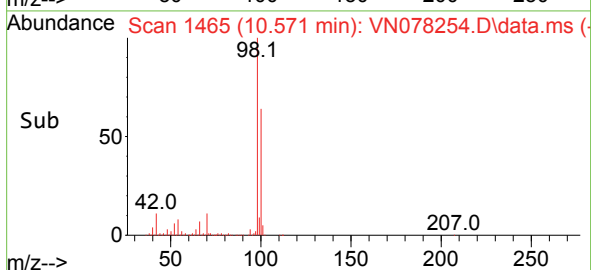
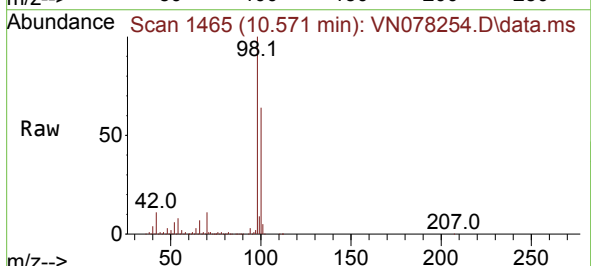
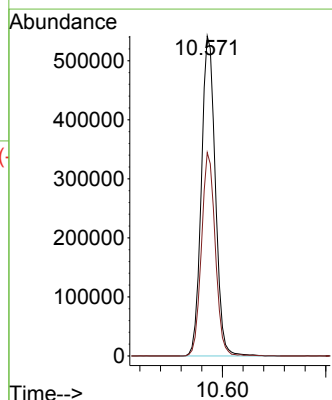
Acq: 16 Jun 2023 12:50

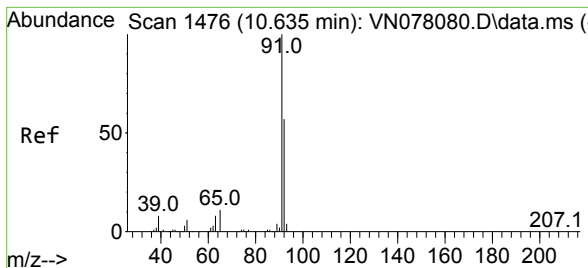
Tgt Ion: 98 Resp: 1013658

Ion Ratio Lower Upper

98 100

100 63.0 52.0 78.0





#52

Toluene

Concen: 47.856 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078254.D

Acq: 16 Jun 2023 12:50

Instrument :

MSVOA_N

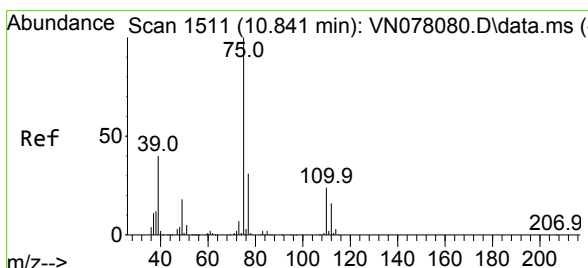
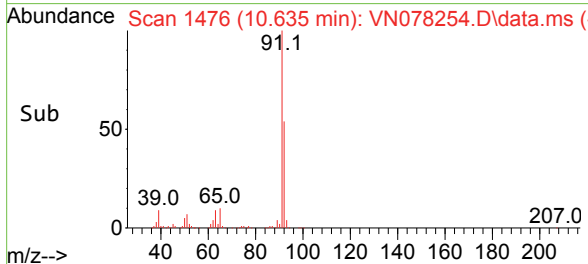
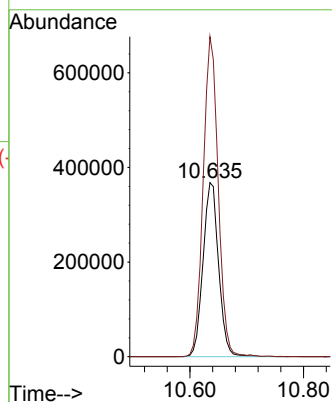
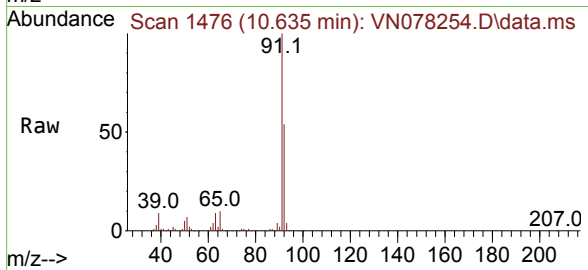
ClientSampleId :

Tgt Ion: 92 Resp: 698005

Ion Ratio Lower Upper

92 100

91 177.4 137.4 206.0



#53

t-1,3-Dichloropropene

Concen: 1.086 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.206 min

Lab File: VN078254.D

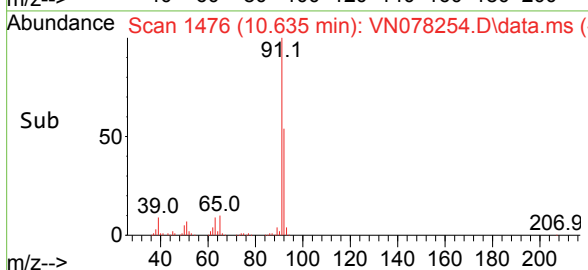
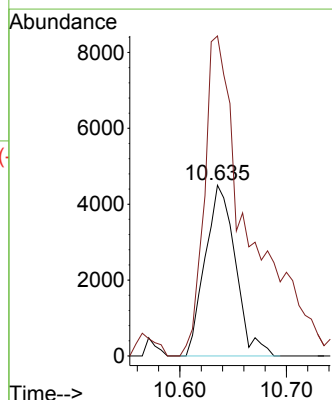
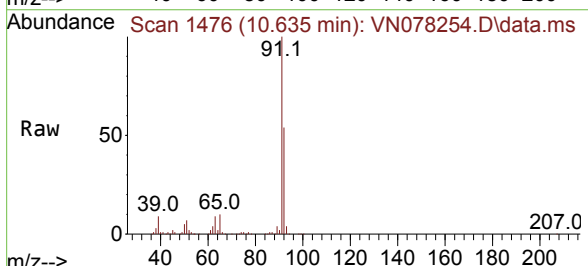
Acq: 16 Jun 2023 12:50

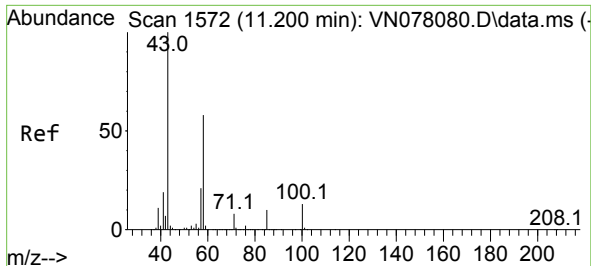
Tgt Ion: 75 Resp: 8898

Ion Ratio Lower Upper

75 100

77 187.4 25.4 38.0#

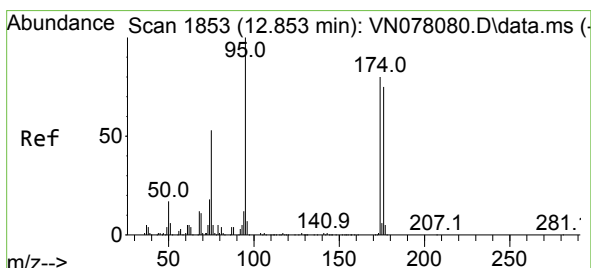
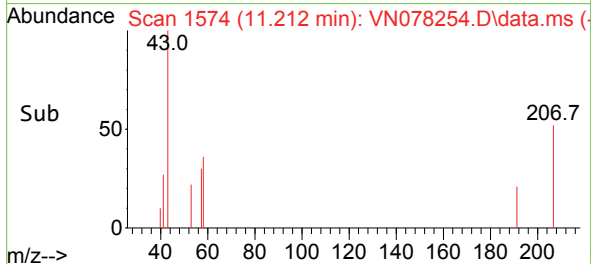
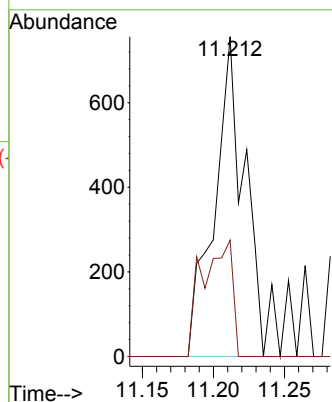
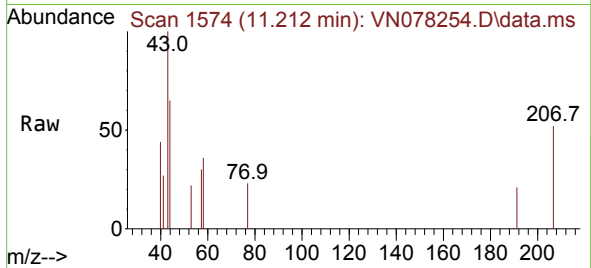




#59
2-Hexanone
Concen: 0.275 ug/l
RT: 11.212 min Scan# 1164
Delta R.T. 0.012 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

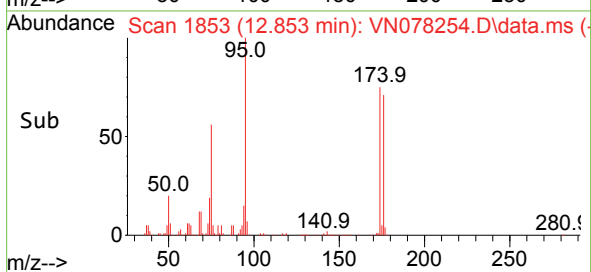
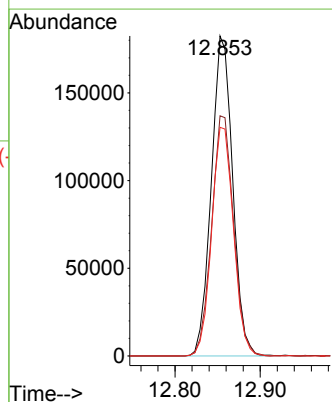
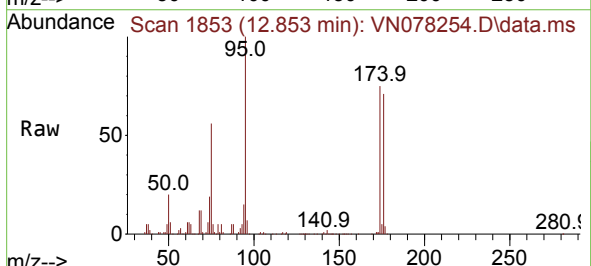
Instrument :
MSVOA_N
ClientSampleId :

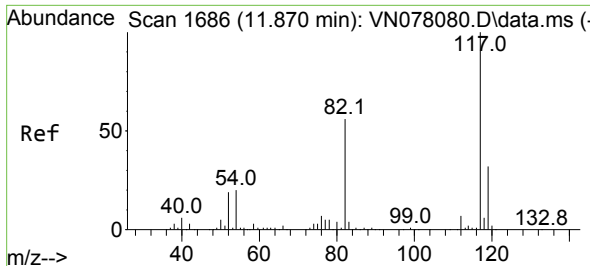
Tgt Ion: 43 Resp: 1164
Ion Ratio Lower Upper
43 100
58 34.5 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 49.061 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

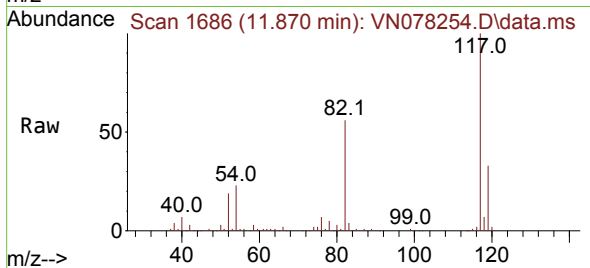
Tgt Ion: 95 Resp: 317194
Ion Ratio Lower Upper
95 100
174 77.2 0.0 143.8
176 73.2 0.0 135.8



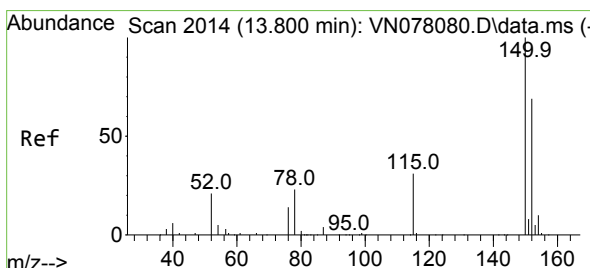
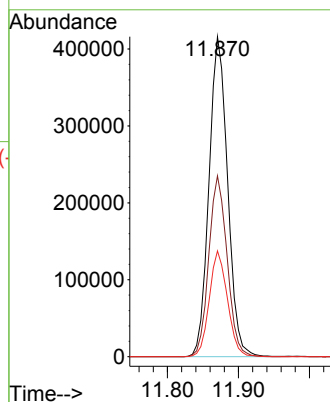
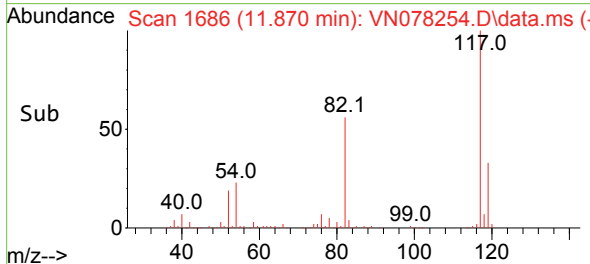


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

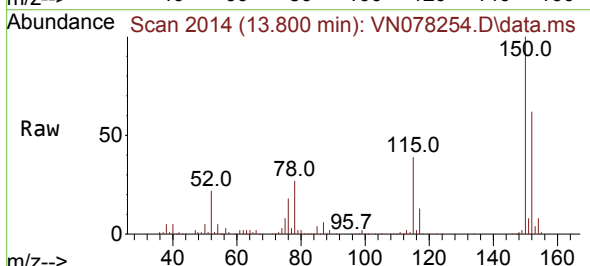
Instrument :
MSVOA_N
ClientSampleId :



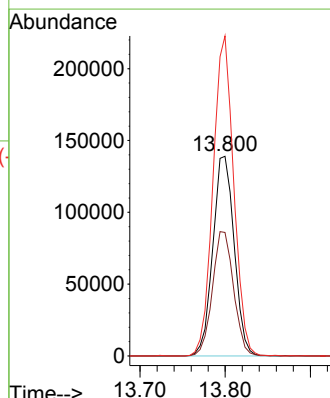
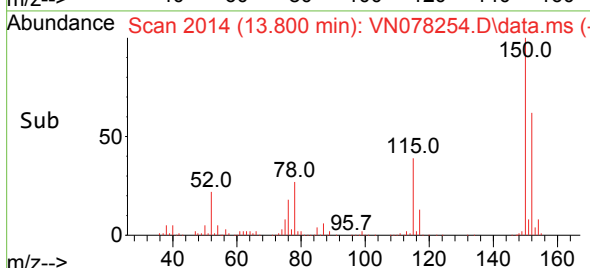
Tgt Ion:117 Resp: 758829
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 33.1 25.6 38.4

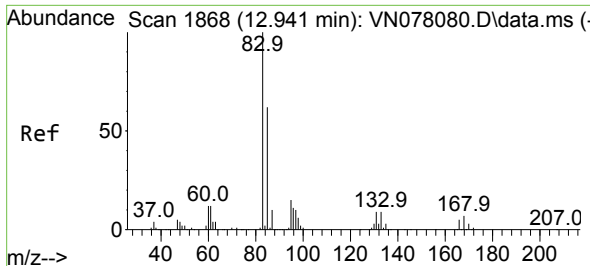


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50



Tgt Ion:152 Resp: 241824
Ion Ratio Lower Upper
152 100
115 61.8 32.3 96.8
150 155.4 0.0 355.8

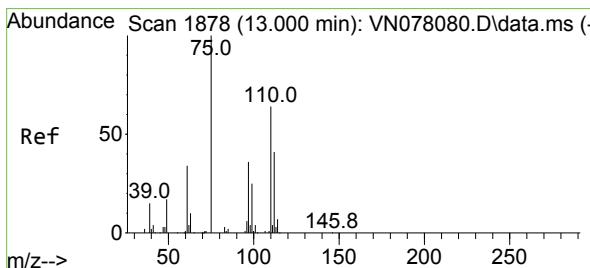
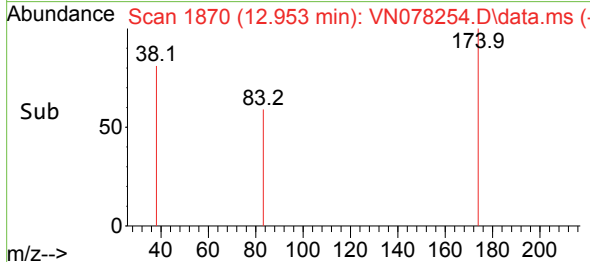
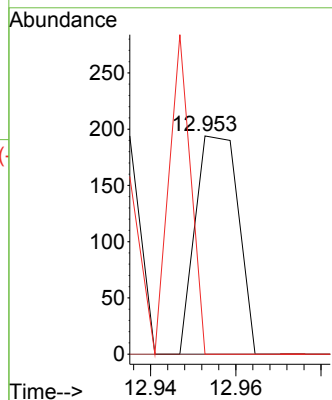
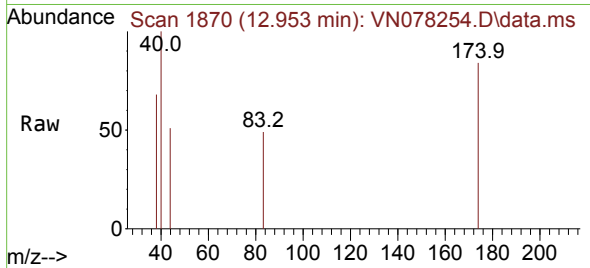




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.953 min Scan# 1853
Delta R.T. 0.012 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

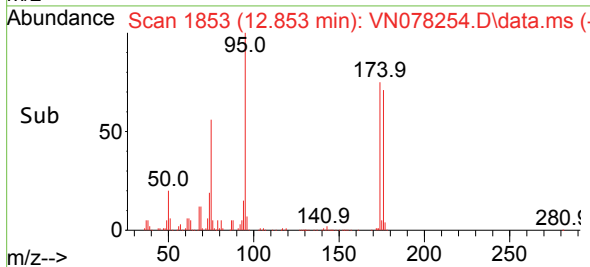
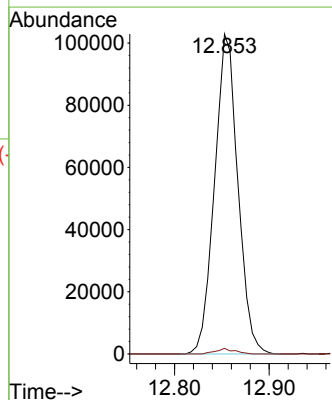
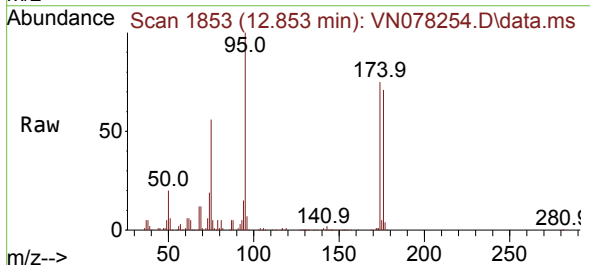
Instrument :
MSVOA_N
ClientSampleId :

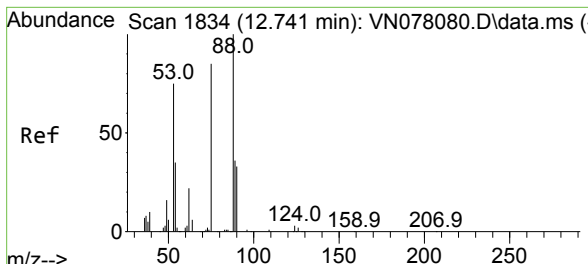
Tgt Ion: 83 Resp: 136
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 114.7 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 30.786 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

Tgt Ion: 75 Resp: 175995
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#

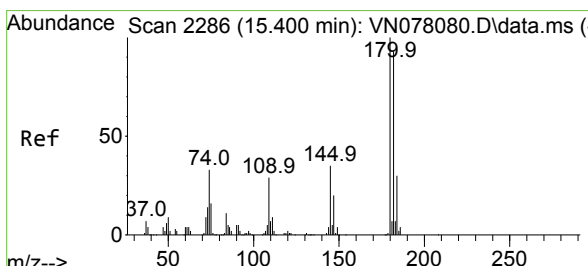
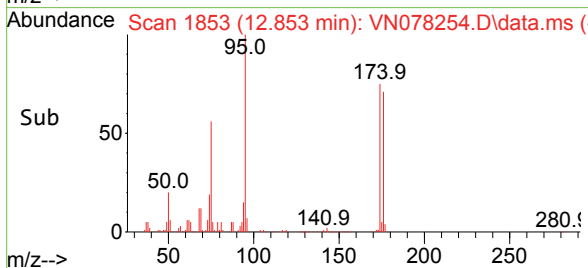
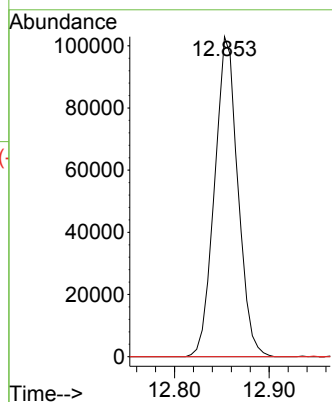
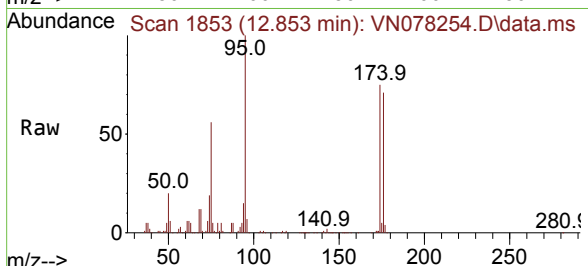




#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.583 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078254.D
 Acq: 16 Jun 2023 12:50

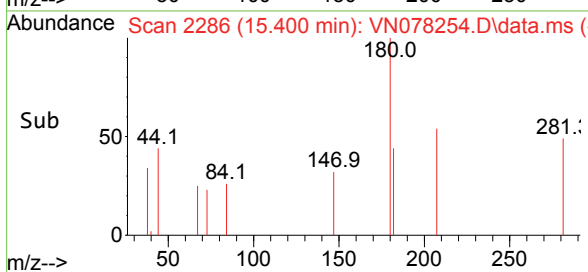
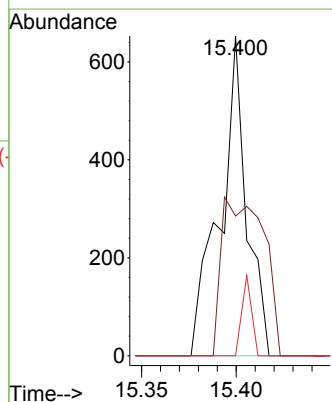
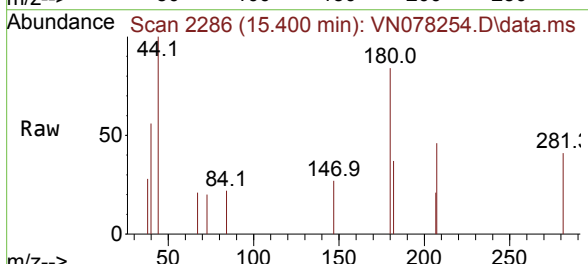
Instrument :
 MSVOA_N
 ClientSampleId :

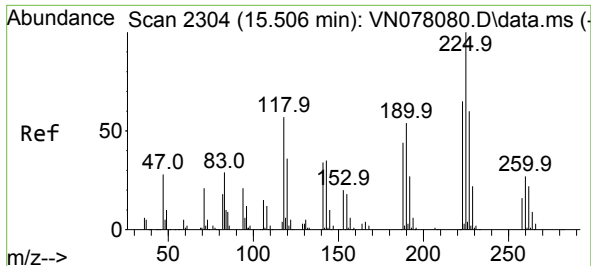
Tgt Ion: 75 Resp: 175995
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.203 ug/l
 RT: 15.400 min Scan# 2286
 Delta R.T. -0.000 min
 Lab File: VN078254.D
 Acq: 16 Jun 2023 12:50

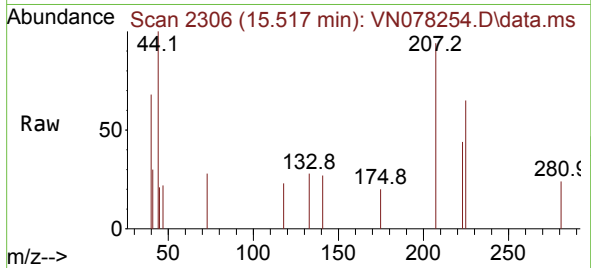
Tgt Ion:180 Resp: 636
 Ion Ratio Lower Upper
 180 100
 182 78.9 46.1 138.2
 145 9.1 16.6 49.8#



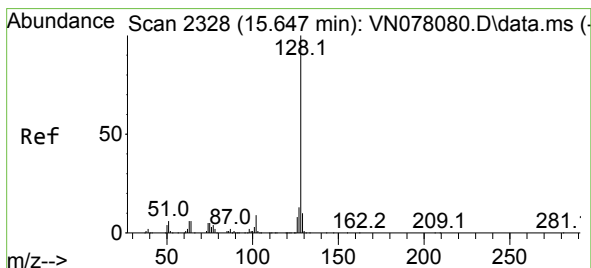
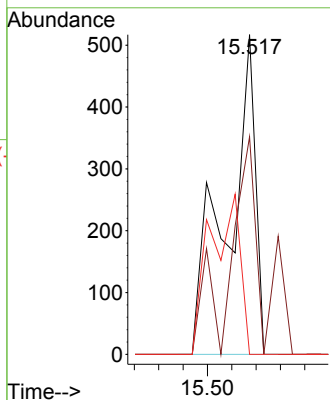
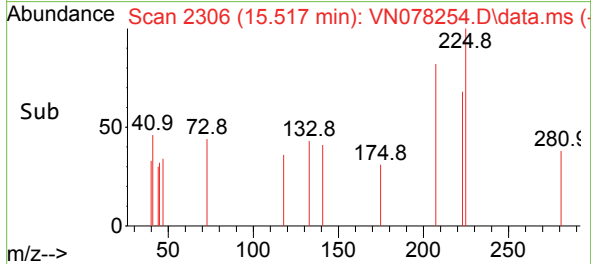


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.517 min Scan# 21
Delta R.T. 0.011 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50

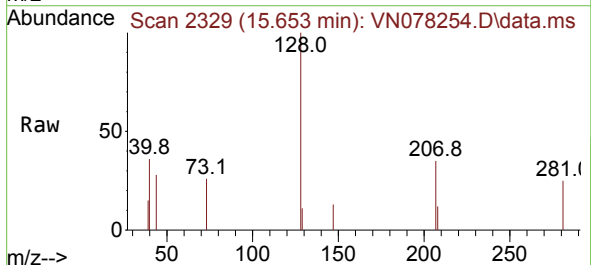
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:225 Resp: 405
Ion Ratio Lower Upper
225 100
223 80.2 31.3 93.8
227 54.8 31.9 95.9



#95
Naphthalene
Concen: 0.234 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN078254.D
Acq: 16 Jun 2023 12:50



Tgt Ion:128 Resp: 2456
Ion Ratio Lower Upper
128 100
127 9.2 10.0 15.0#
129 2.8 8.7 13.1#

