

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082323\
 Data File : VN079015.D
 Acq On : 23 Aug 2023 14:48
 Operator : JC\MD
 Sample : 04091-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:11:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

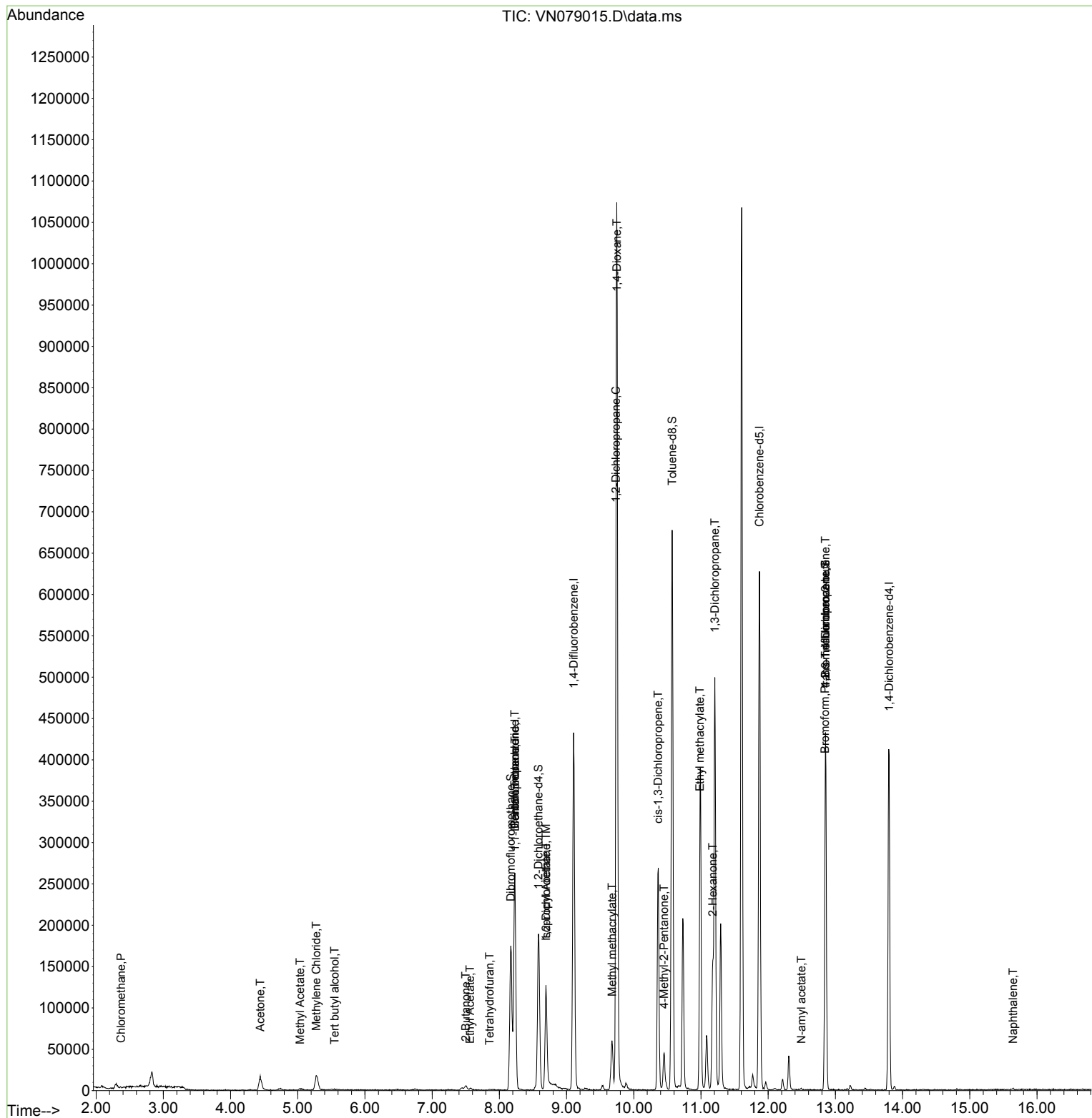
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	183832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	354166	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	350839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	105481	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	151967	53.125	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.240%	
35) Dibromofluoromethane	8.171	113	123678	51.877	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.760%	
50) Toluene-d8	10.571	98	453749	51.258	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.520%	
62) 4-Bromofluorobenzene	12.853	95	140092	48.417	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.840%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	731	0.205	ug/l	99
11) Tert butyl alcohol	5.547	59	332	0.692	ug/l #	72
16) Acetone	4.442	43	28665	24.286	ug/l	92
18) Methyl Acetate	5.036	43	2266	0.454	ug/l #	75
20) Methylene Chloride	5.277	84	12945	5.146	ug/l #	84
25) 2-Butanone	7.500	43	9433	4.985	ug/l #	66
29) Tetrahydrofuran	7.853	42	482	0.385	ug/l #	20
31) Cyclohexane	8.230	56	4779	Below Cal	#	47
36) 1,1-Dichloropropene	8.236	75	16375	4.566	ug/l #	48
37) Ethyl Acetate	7.565	43	4414	1.100	ug/l #	63
38) Carbon Tetrachloride	8.230	117	20381	5.672	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	801	0.202	ug/l #	73
43) Isopropyl Acetate	8.694	43	145052	20.453	ug/l #	77
45) 1,2-Dichloropropane	9.735	63	1219	0.432	ug/l #	45
48) Methyl methacrylate	9.677	41	4359	1.356	ug/l #	30
49) 1,4-Dioxane	9.747	88	72	1.315	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	38070	9.051	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	43037	9.640	ug/l #	72
56) Ethyl methacrylate	10.982	69	1705	0.421	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5357	1.148	ug/l #	42
59) 2-Hexanone	11.177	43	128134	42.058	ug/l #	19
71) Bromoform	12.847	173	1483	0.723	ug/l #	28
74) N-amyl acetate	12.494	43	1285	0.289	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	79123	31.131	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	79123	79.527	ug/l #	15
95) Naphthalene	15.647	128	1619	2.890	ug/l #	75

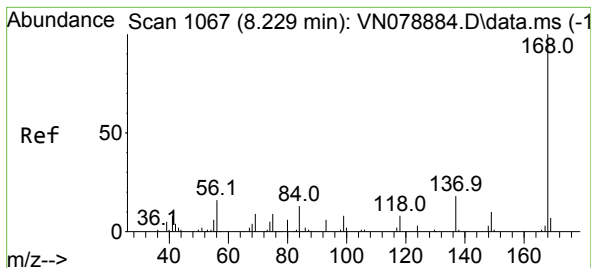
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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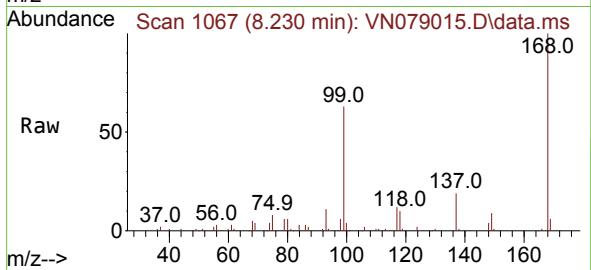
Quant Time: Aug 24 01:11:30 2023
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QLast Update : Wed Aug 16 02:42:02 2023
Response via : Initial Calibration



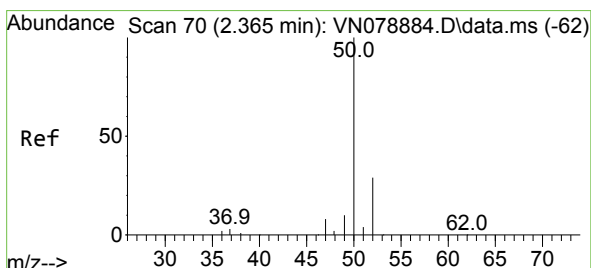
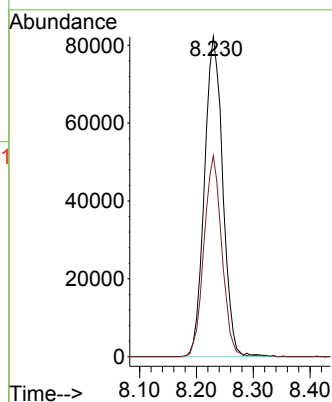
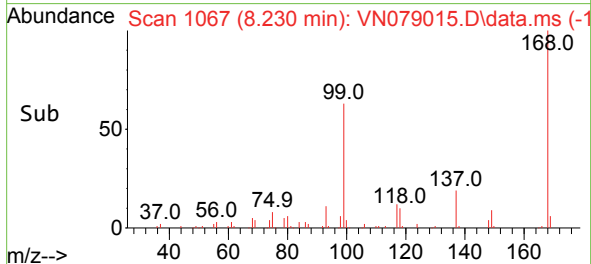


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

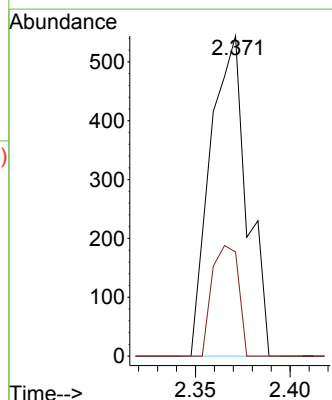
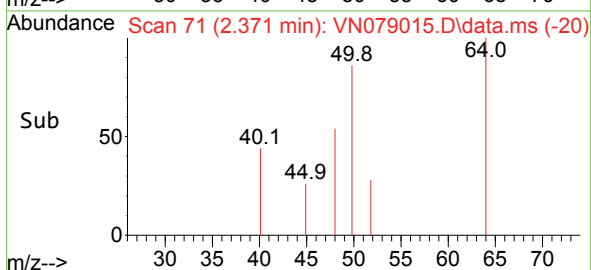
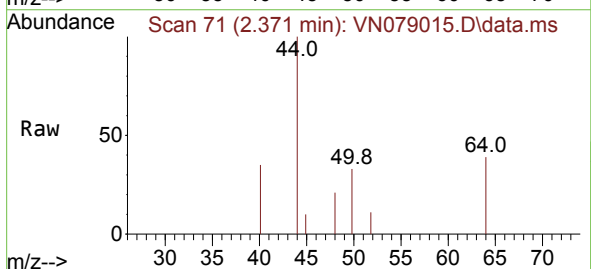


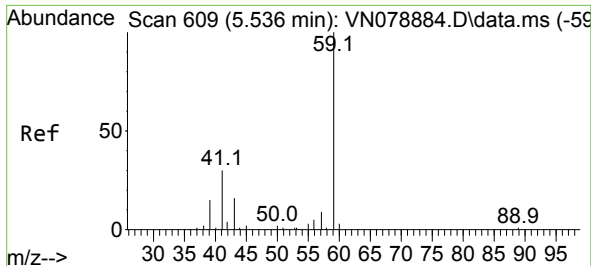
Tgt Ion:168 Resp: 183832
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#3
Chloromethane
Concen: 0.205 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

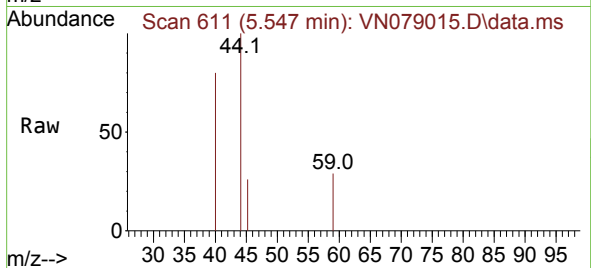
Tgt Ion: 50 Resp: 731
Ion Ratio Lower Upper
50 100
52 32.5 26.5 39.7



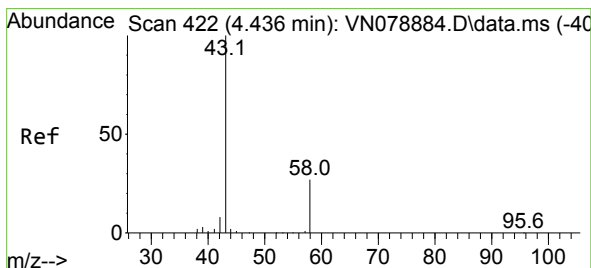
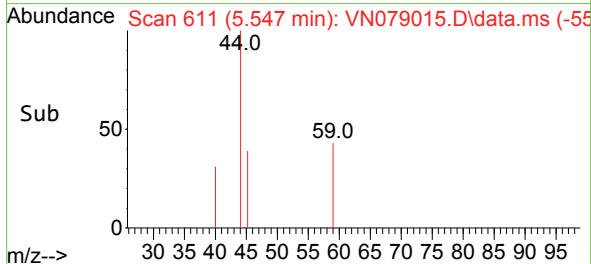
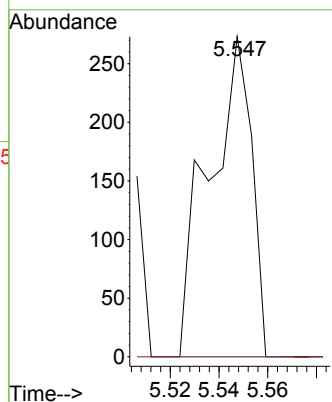


#11
Tert butyl alcohol
Concen: 0.692 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

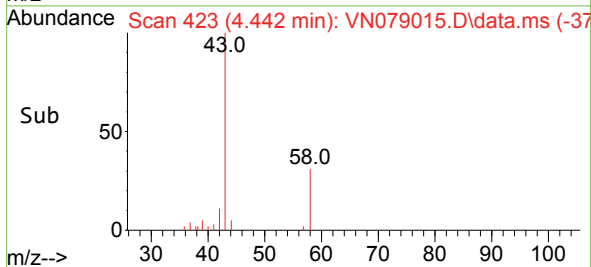
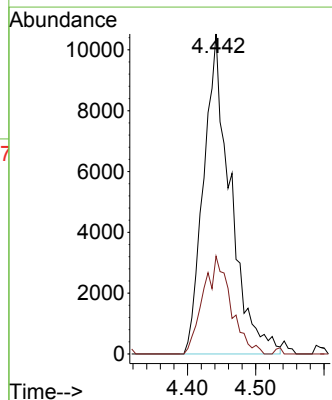
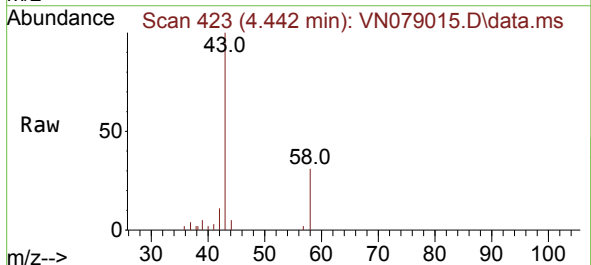


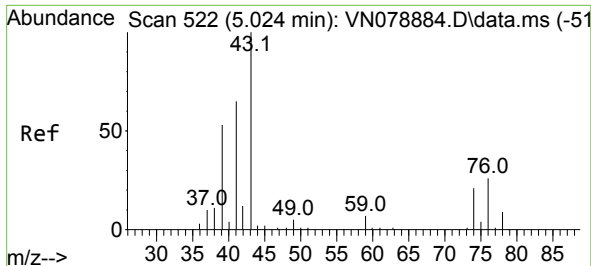
Tgt Ion: 59 Resp: 332
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 24.286 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 43 Resp: 28665
Ion Ratio Lower Upper
43 100
58 30.6 28.0 42.0

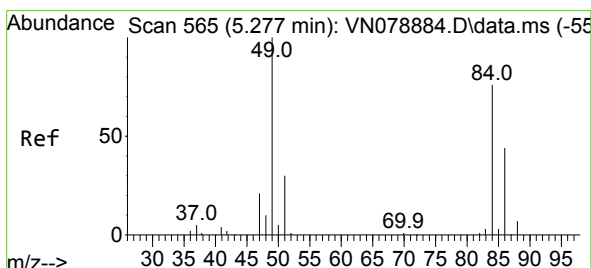
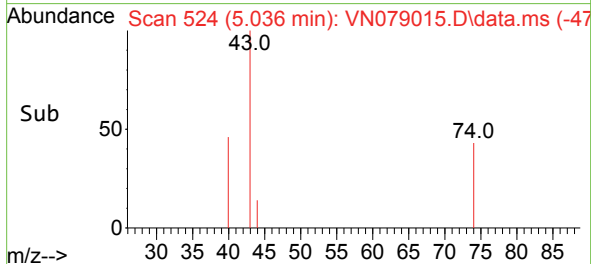
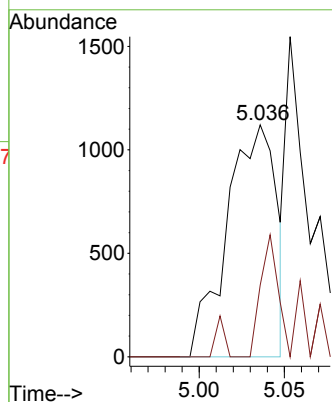
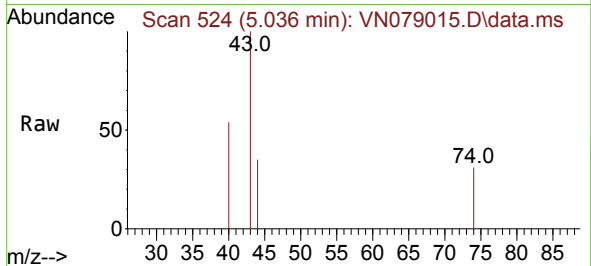




#18
Methyl Acetate
Concen: 0.454 ug/l
RT: 5.036 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

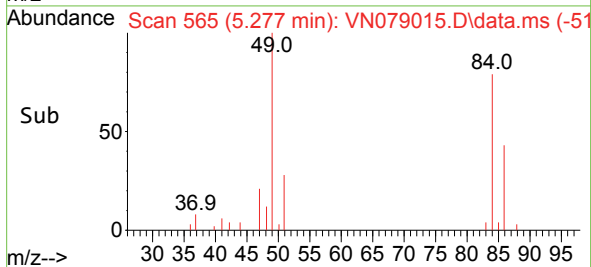
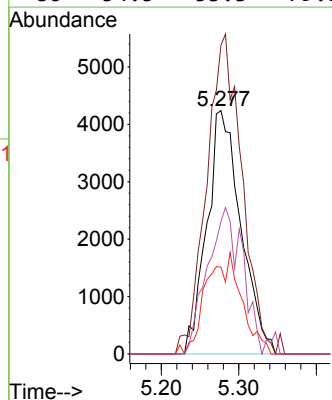
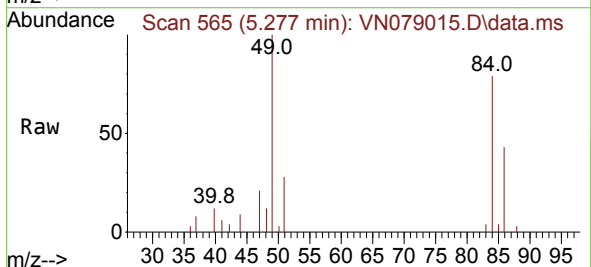
Instrument :
MSVOA_N
ClientSampleId :

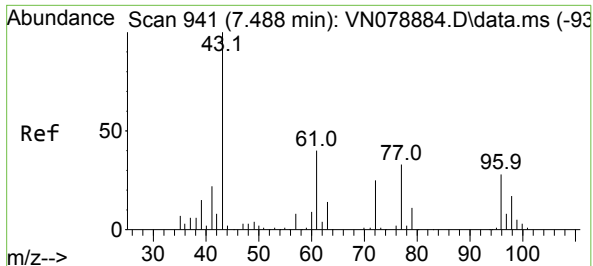
Tgt Ion: 43 Resp: 2266
Ion Ratio Lower Upper
43 100
74 18.7 26.2 39.4#



#20
Methylene Chloride
Concen: 5.146 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 84 Resp: 12945
Ion Ratio Lower Upper
84 100
49 119.6 79.7 119.5#
51 35.7 25.2 37.8
86 54.5 53.3 79.9





#25

2-Butanone

Concen: 4.985 ug/l

RT: 7.500 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Instrument :

MSVOA_N

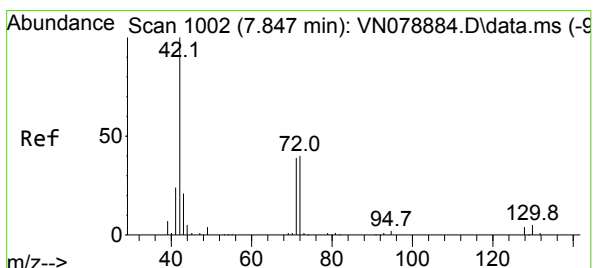
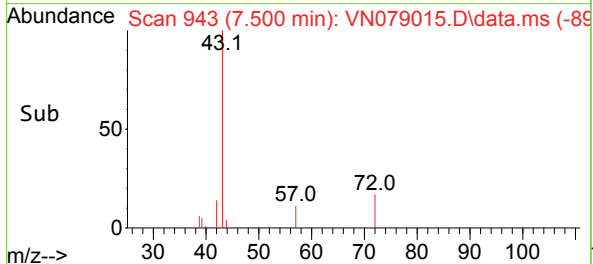
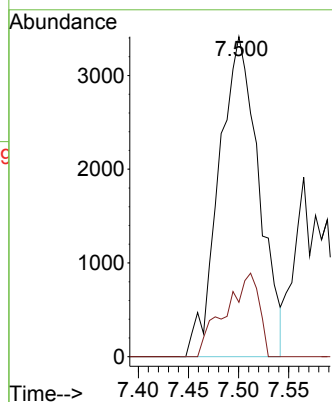
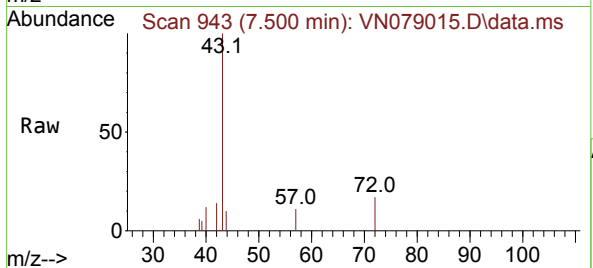
ClientSampleId :

Tgt Ion: 43 Resp: 9433

Ion Ratio Lower Upper

43 100

72 17.0 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.385 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.006 min

Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

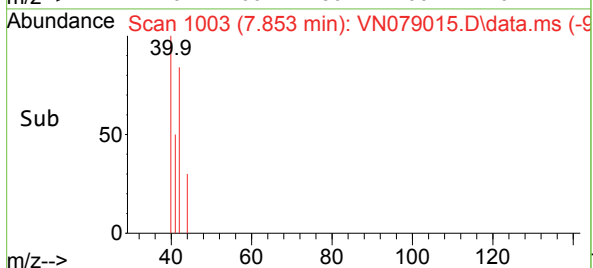
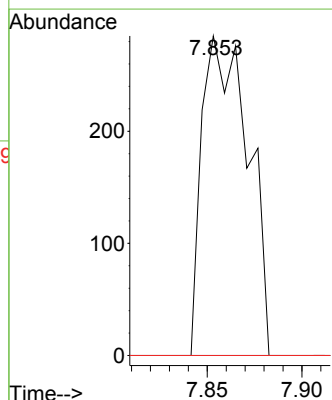
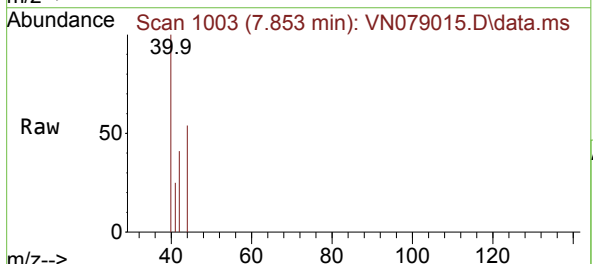
Tgt Ion: 42 Resp: 482

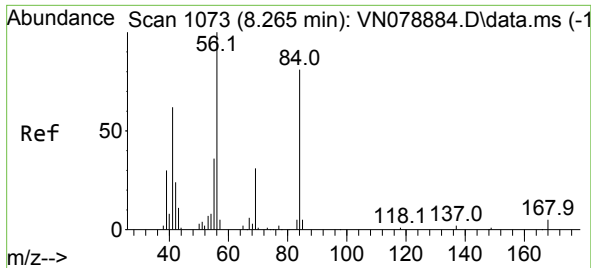
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

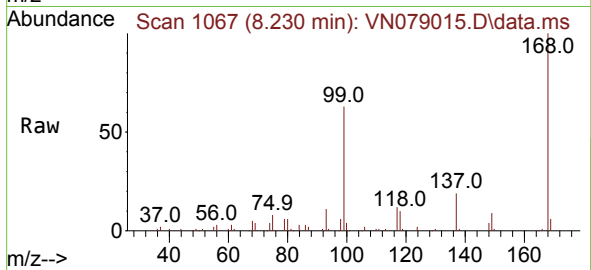
71 0.0 47.4 71.2#



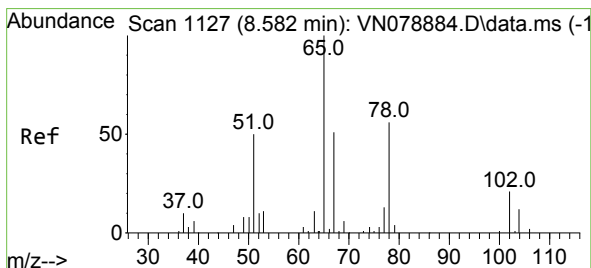
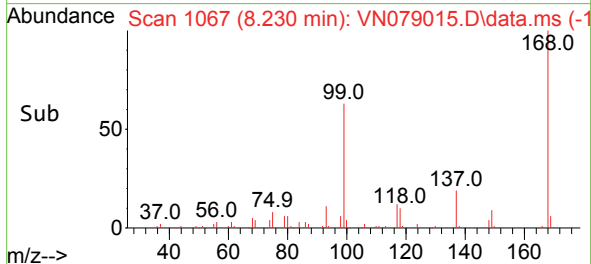
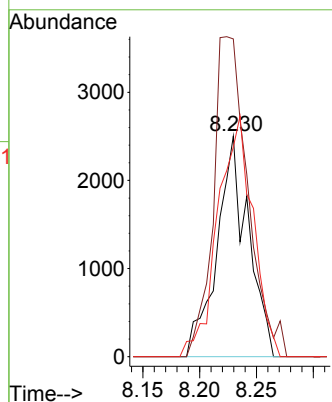


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1073
Delta R.T. -0.035 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

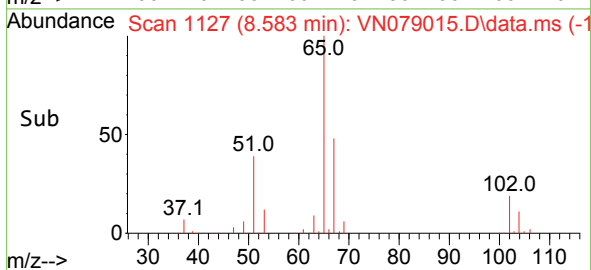
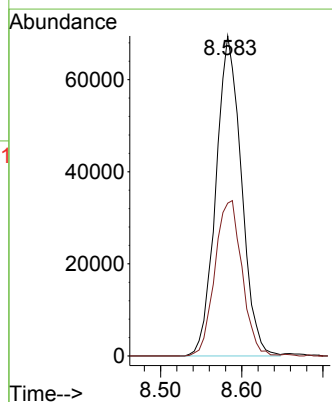
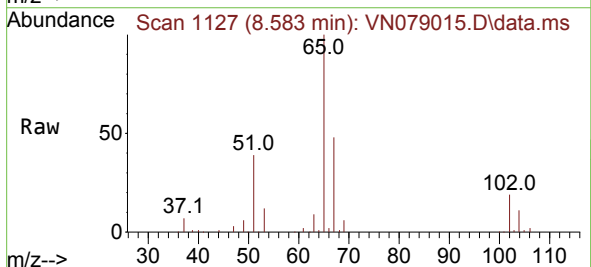


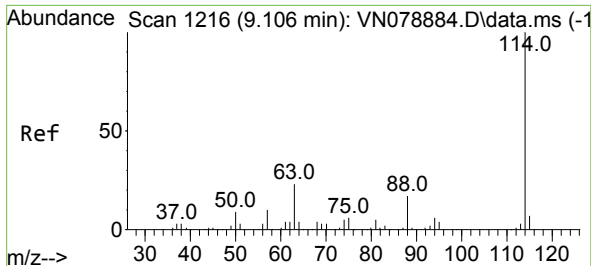
Tgt Ion: 56 Resp: 4779
Ion Ratio Lower Upper
56 100
69 144.2 26.8 40.2#
84 95.1 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.125 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 65 Resp: 151967
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

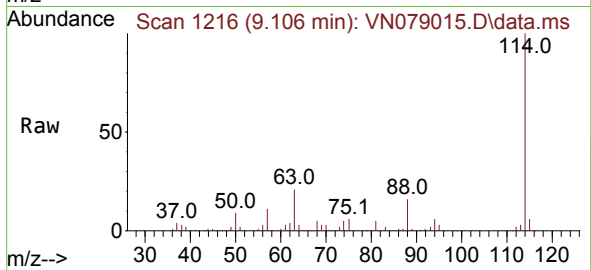
Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :



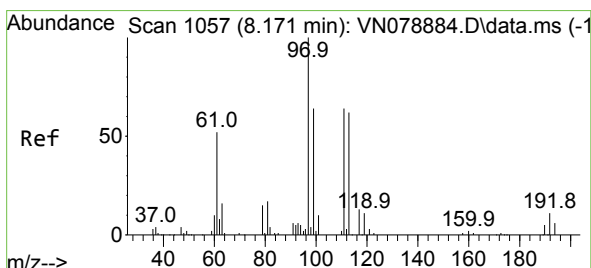
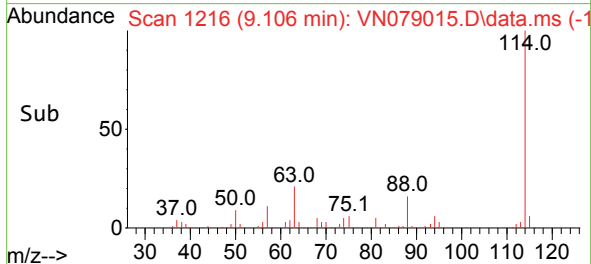
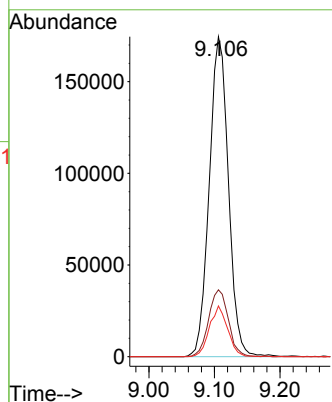
Tgt Ion:114 Resp: 354166

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 15.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.877 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

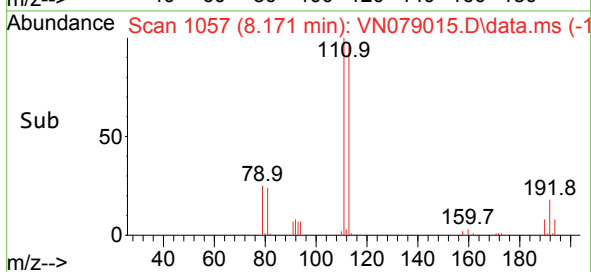
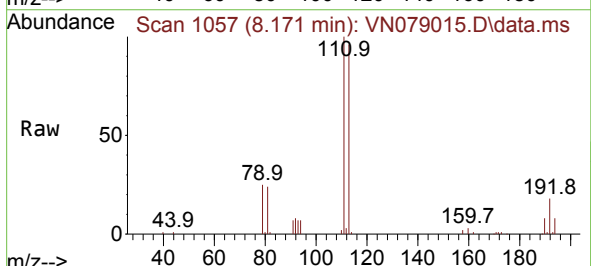
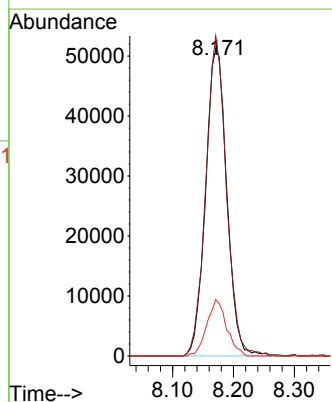
Tgt Ion:113 Resp: 123678

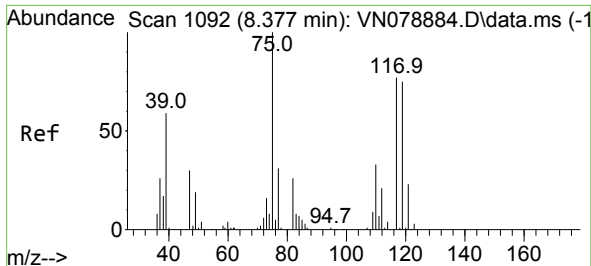
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

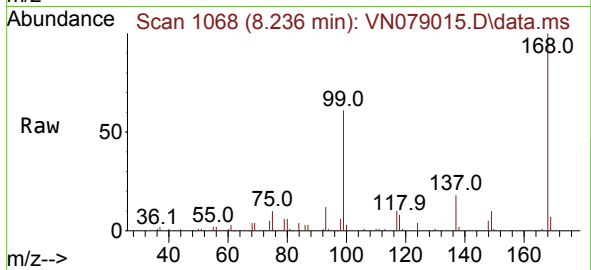
192 17.2 12.7 19.1



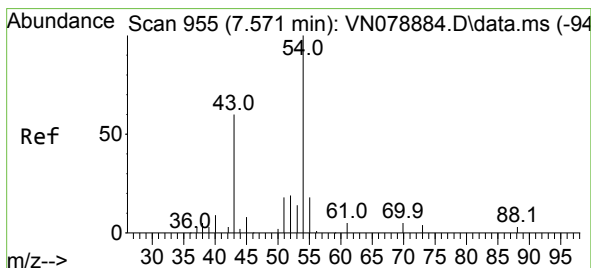
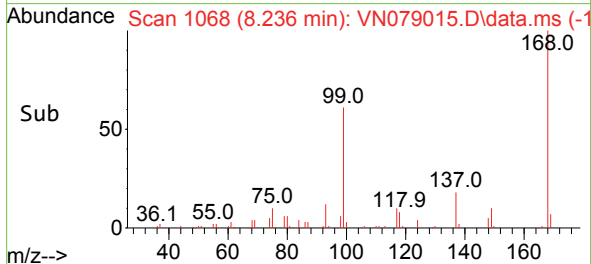
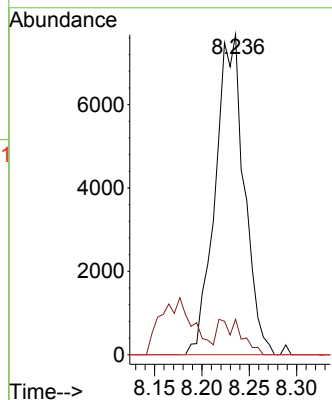


#36
1,1-Dichloropropene
Concen: 4.566 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

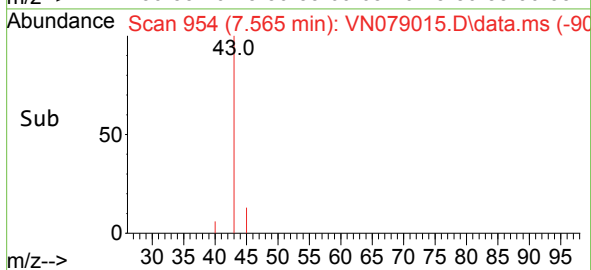
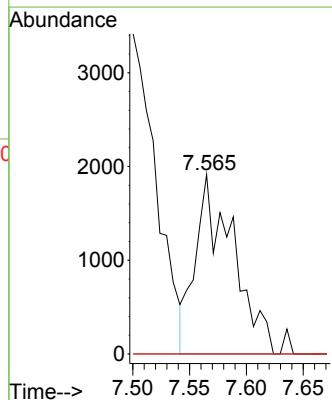
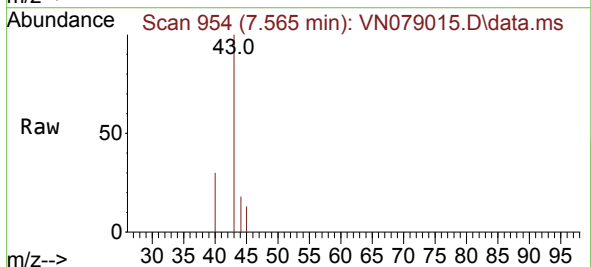


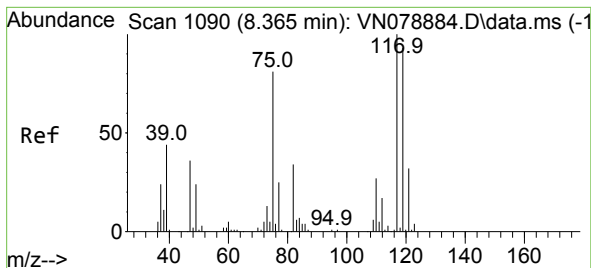
Tgt Ion: 75 Resp: 16375
Ion Ratio Lower Upper
75 100
110 8.8 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.100 ug/l
RT: 7.565 min Scan# 954
Delta R.T. -0.006 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 43 Resp: 4414
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.672 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

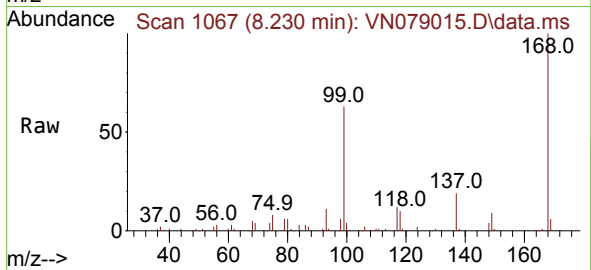
Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :



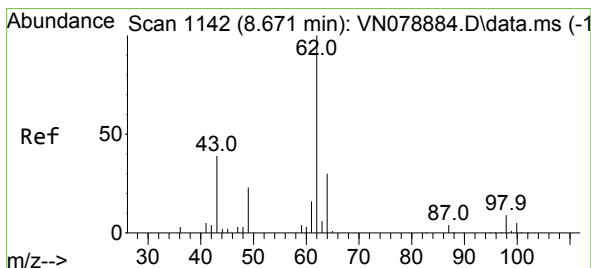
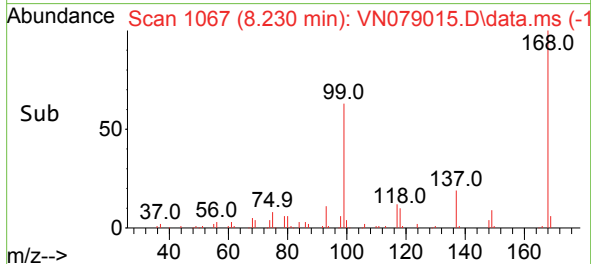
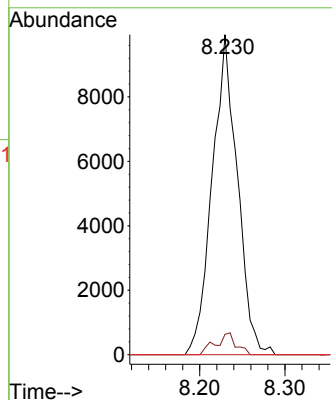
Tgt Ion:117 Resp: 20381

Ion Ratio Lower Upper

117 100

119 6.3 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.202 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN079015.D

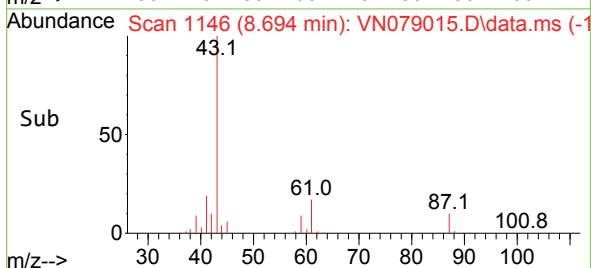
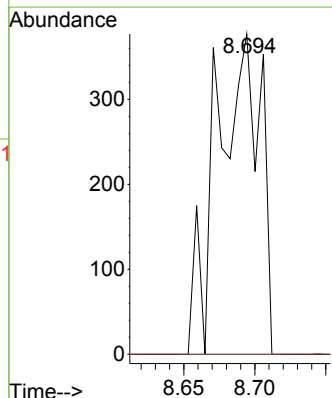
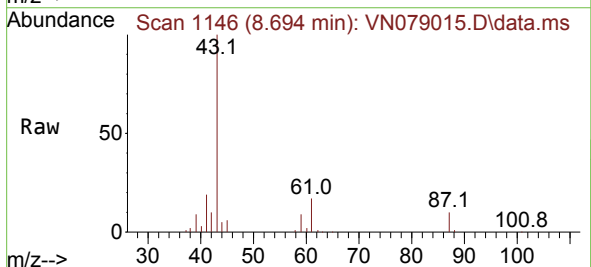
Acq: 23 Aug 2023 14:48

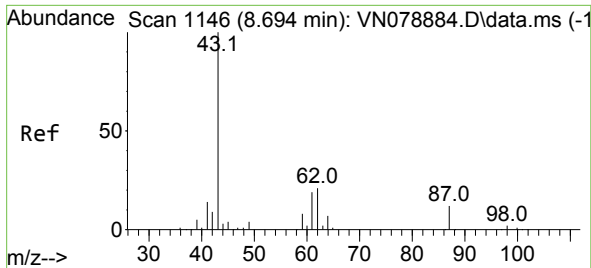
Tgt Ion: 62 Resp: 801

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

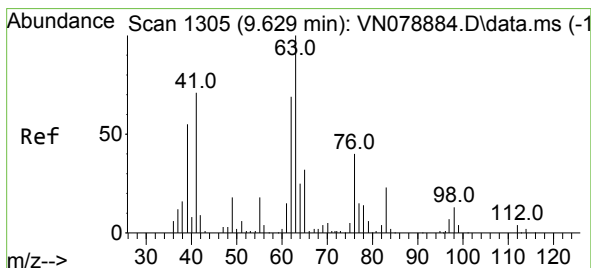
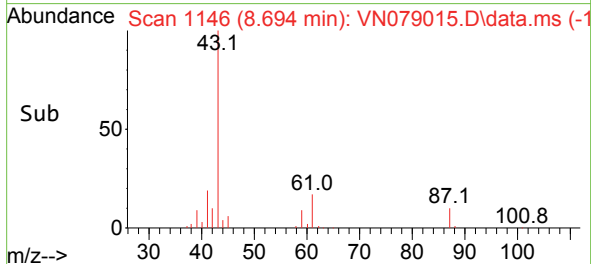
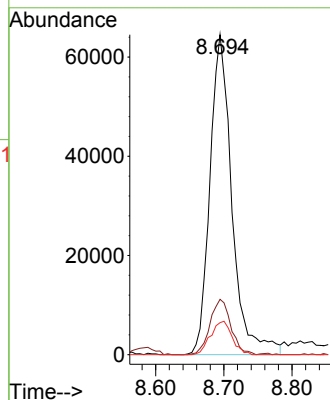
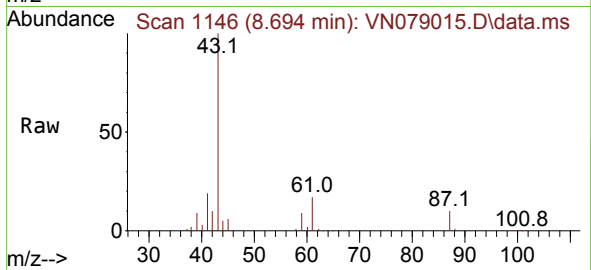




#43
Isopropyl Acetate
Concen: 20.453 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

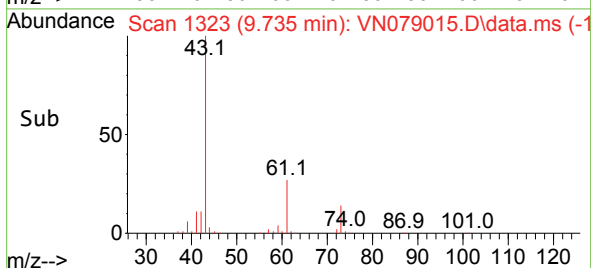
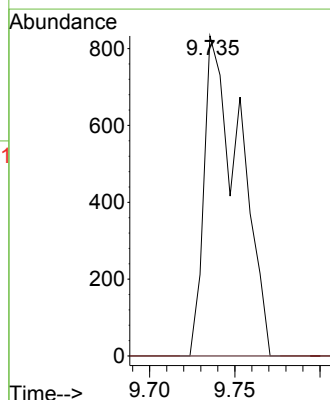
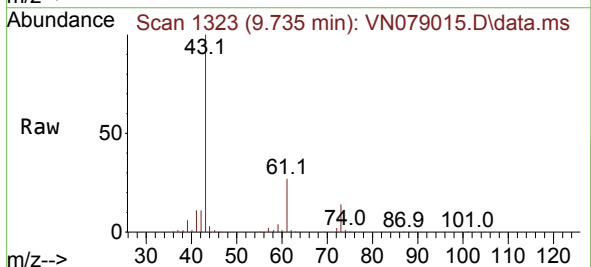
Instrument :
MSVOA_N
ClientSampleId :

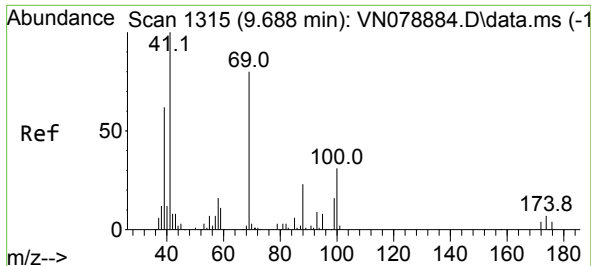
Tgt Ion: 43 Resp: 145052
Ion Ratio Lower Upper
43 100
61 16.3 24.7 37.1#
87 10.2 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.432 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.111 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

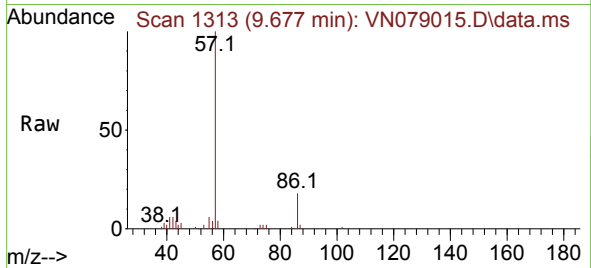
Tgt Ion: 63 Resp: 1219
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



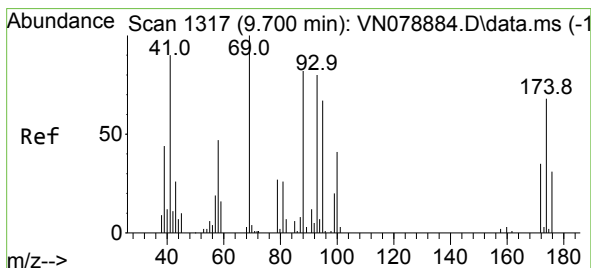
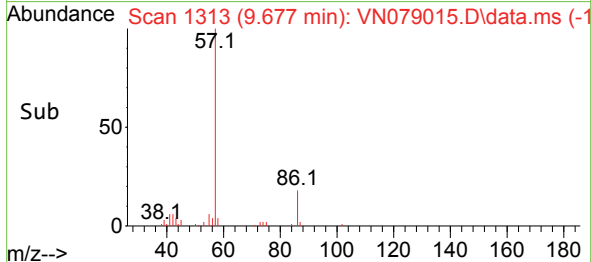
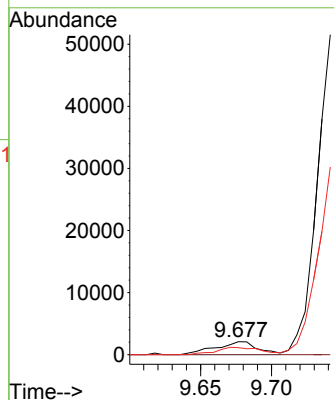


#48
Methyl methacrylate
Concen: 1.356 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

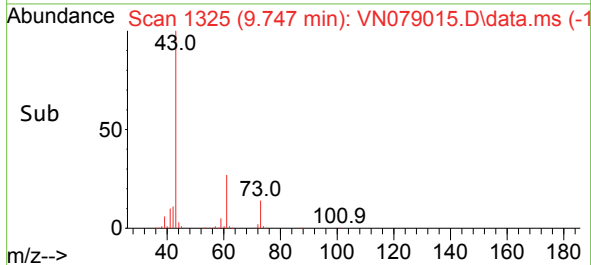
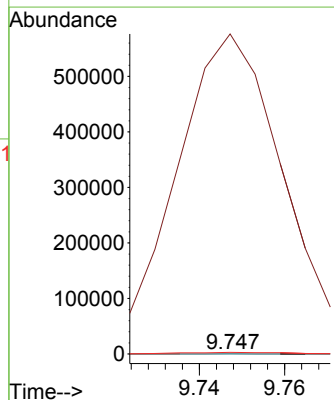
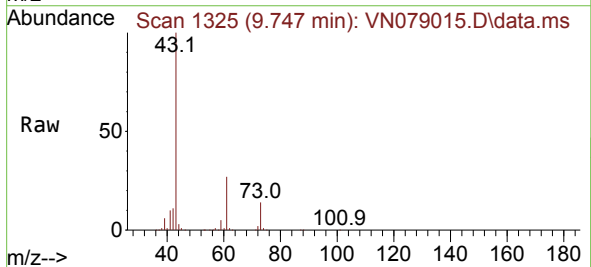


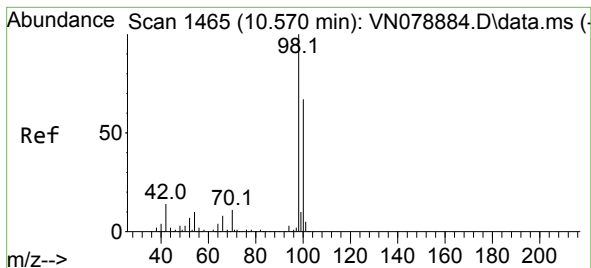
Tgt Ion: 41 Resp: 4359
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.3 54.6 81.8



#49
1,4-Dioxane
Concen: 1.315 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.047 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 1442127.8 17.0 25.6#
58 7797.2 47.0 70.4#

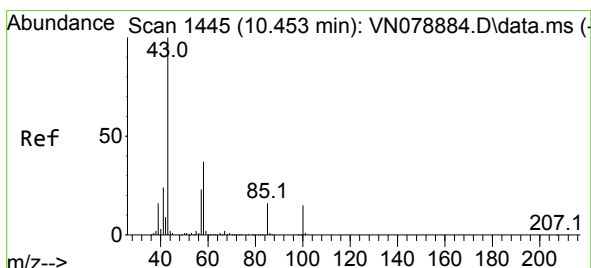
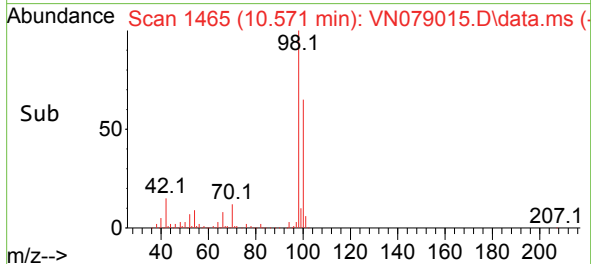
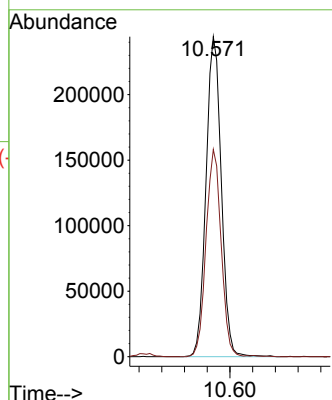
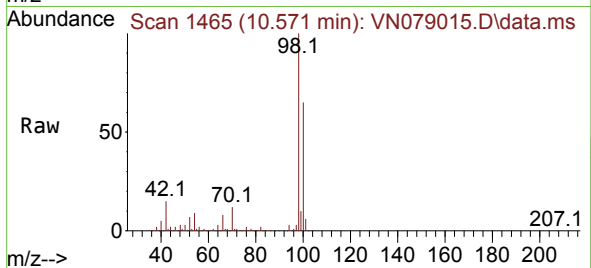




#50
Toluene-d8
Concen: 51.258 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

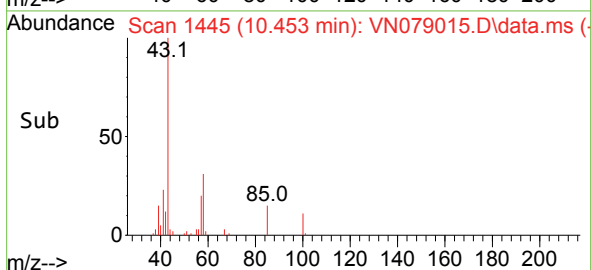
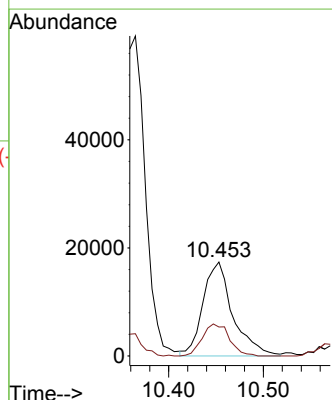
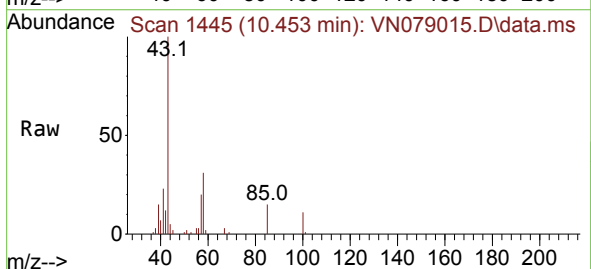
Instrument :
MSVOA_N
ClientSampleId :

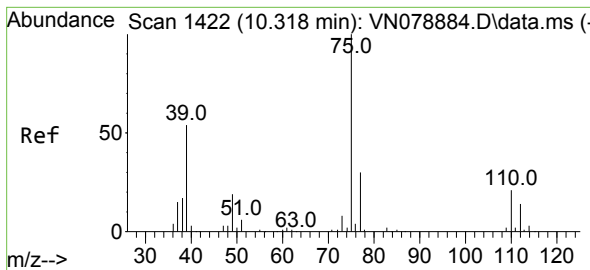
Tgt Ion: 98 Resp: 453749
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 9.051 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 43 Resp: 38070
Ion Ratio Lower Upper
43 100
58 31.0 36.6 54.8#

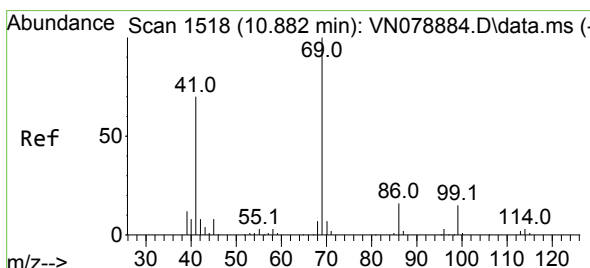
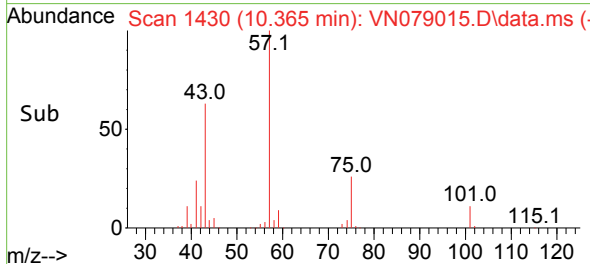
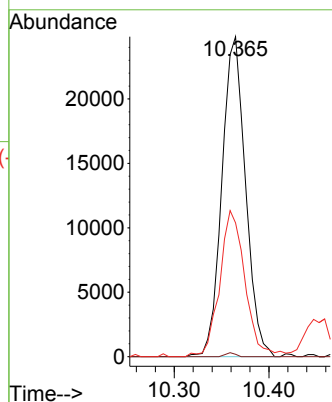
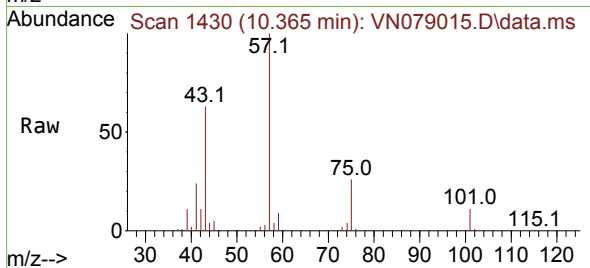




#54
 cis-1,3-Dichloropropene
 Concen: 9.640 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN079015.D
 Acq: 23 Aug 2023 14:48

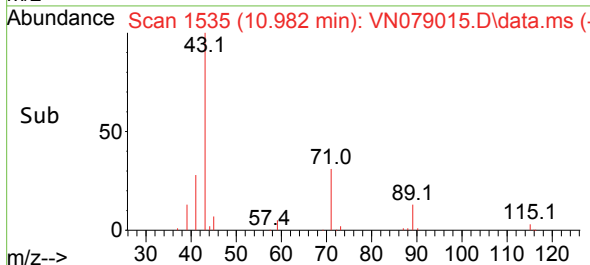
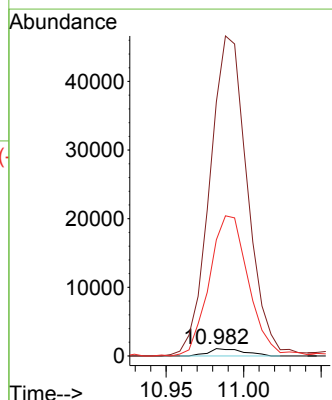
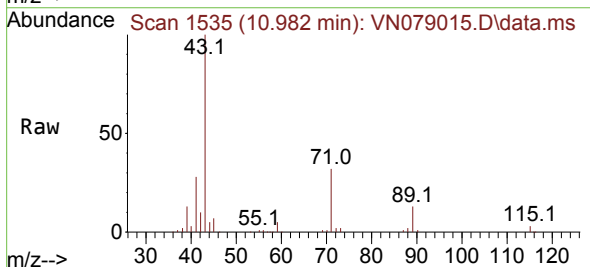
Instrument :
 MSVOA_N
 ClientSampleId :

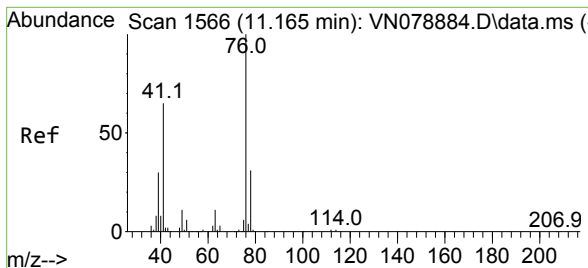
Tgt Ion: 75 Resp: 43037
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.1 39.1#
 39 41.8 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.421 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.105 min
 Lab File: VN079015.D
 Acq: 23 Aug 2023 14:48

Tgt Ion: 69 Resp: 1705
 Ion Ratio Lower Upper
 69 100
 41 4624.7 39.6 59.4#
 39 2114.0 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.148 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Instrument :

MSVOA_N

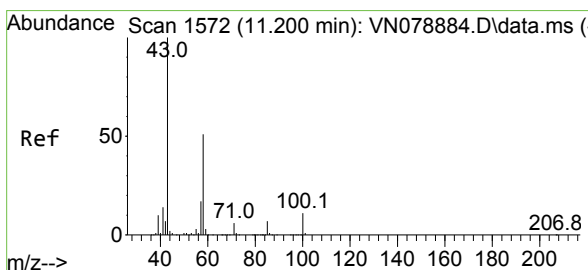
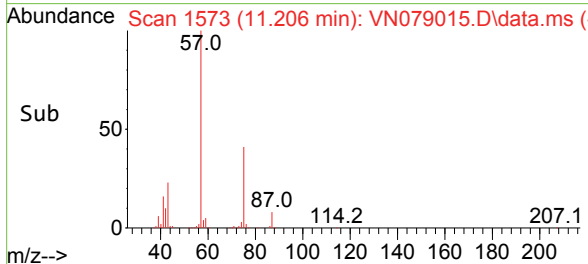
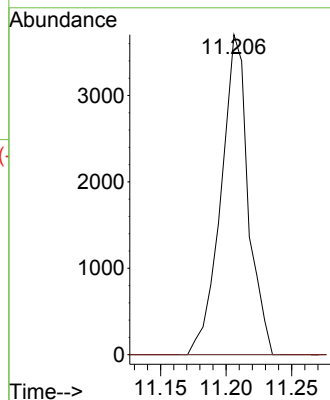
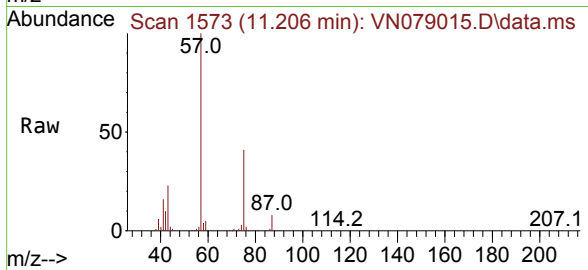
ClientSampleId :

Tgt Ion: 76 Resp: 5357

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 42.058 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN079015.D

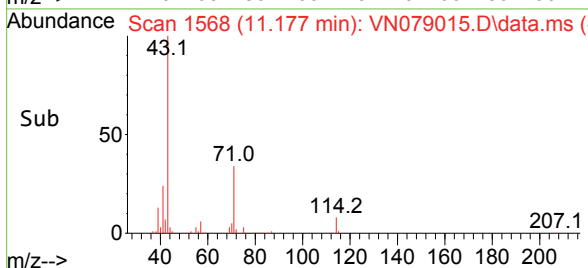
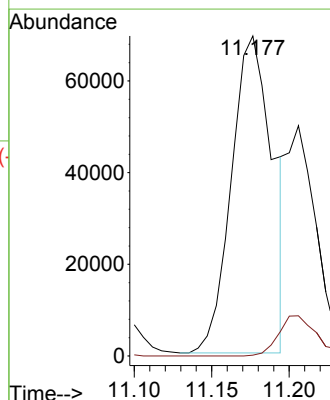
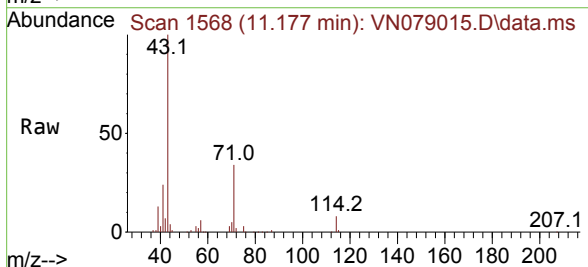
Acq: 23 Aug 2023 14:48

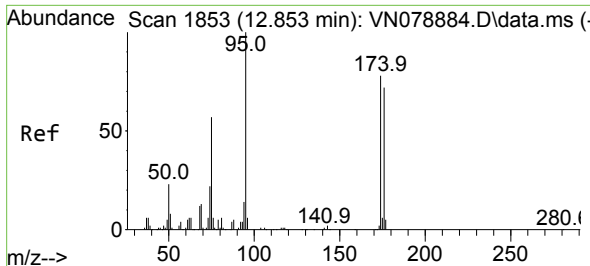
Tgt Ion: 43 Resp: 128134

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

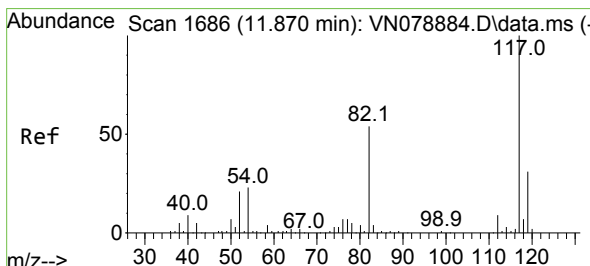
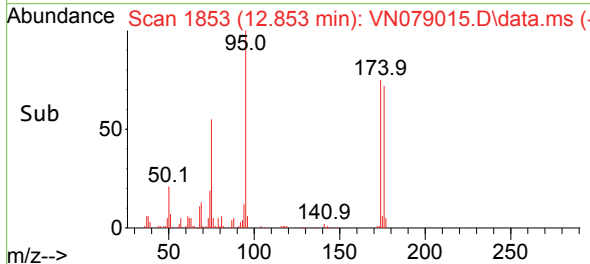
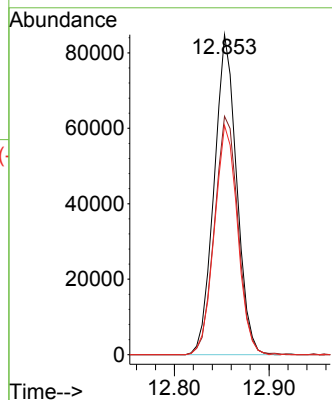
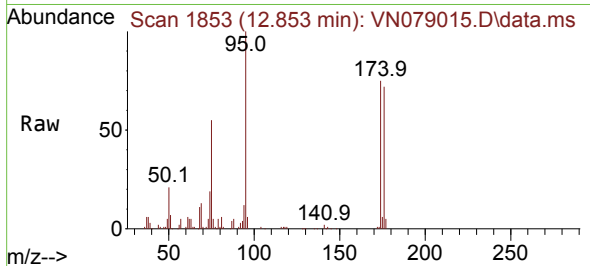




#62
4-Bromofluorobenzene
Concen: 48.417 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

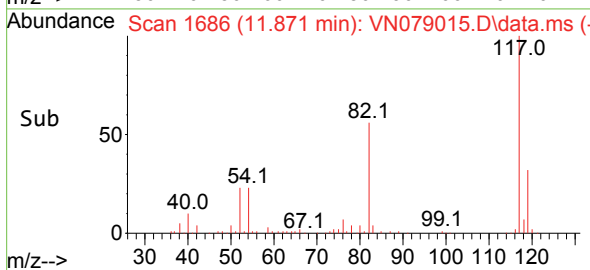
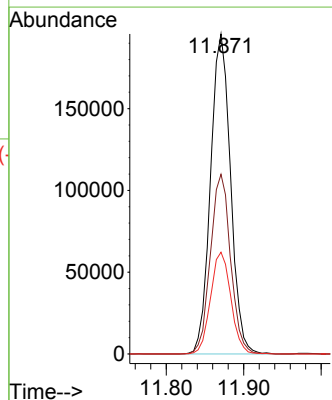
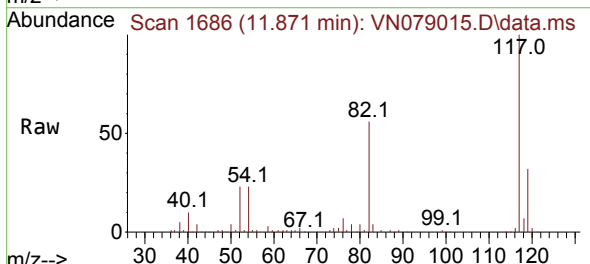
Instrument :
MSVOA_N
ClientSampleId :

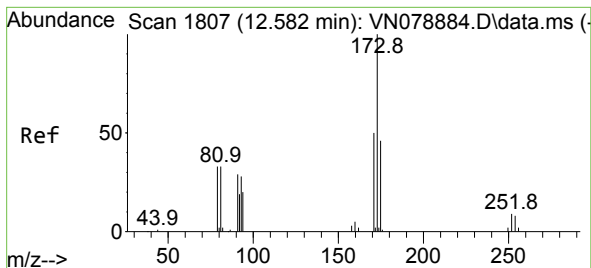
Tgt Ion: 95 Resp: 140092
Ion Ratio Lower Upper
95 100
174 77.9 0.0 143.8
176 73.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion: 117 Resp: 350839
Ion Ratio Lower Upper
117 100
82 56.2 44.0 66.0
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.723 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

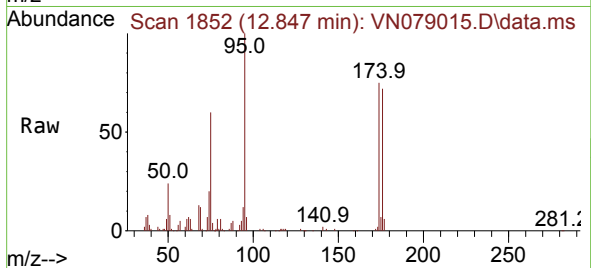
Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

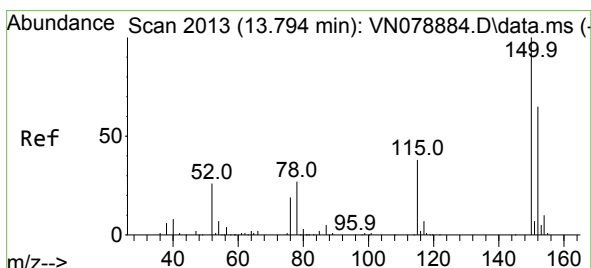
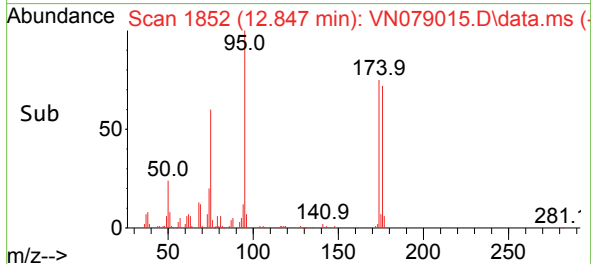
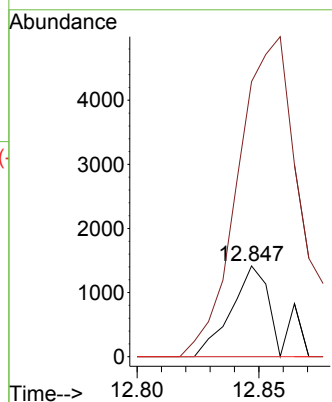
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:173	Resp:	1483
Ion Ratio	Lower	Upper
173	100	
175	0.0	24.3
254	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

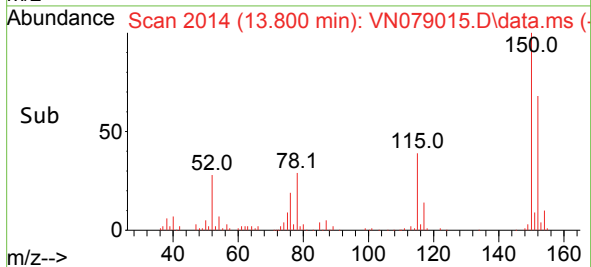
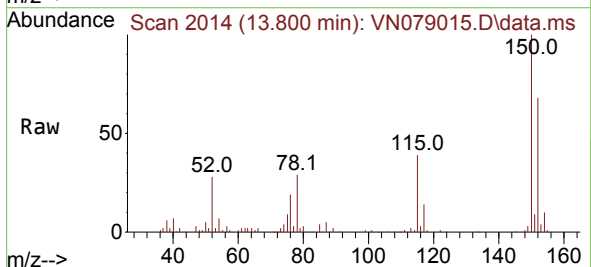
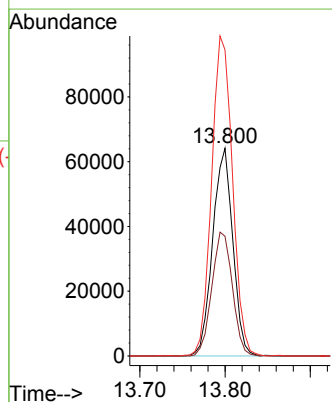
RT: 13.800 min Scan# 2014

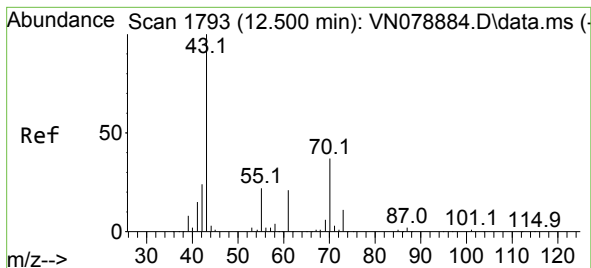
Delta R.T. 0.006 min

Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Tgt Ion:152	Resp:	105481
Ion Ratio	Lower	Upper
152	100	
115	60.8	32.3
150	159.5	0.0





#74

N-amy1 acetate

Concen: 0.289 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

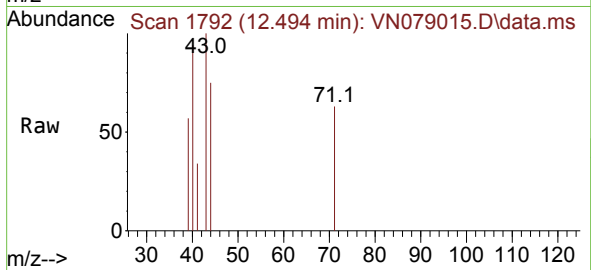
Lab File: VN079015.D

Acq: 23 Aug 2023 14:48

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1285

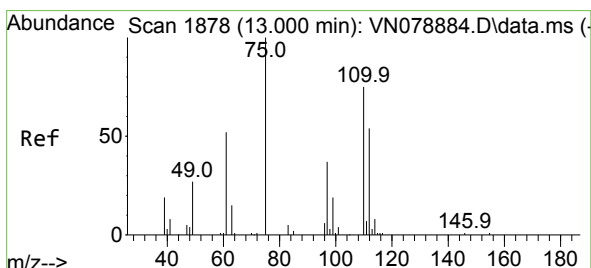
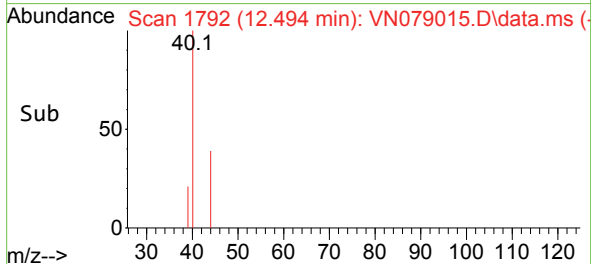
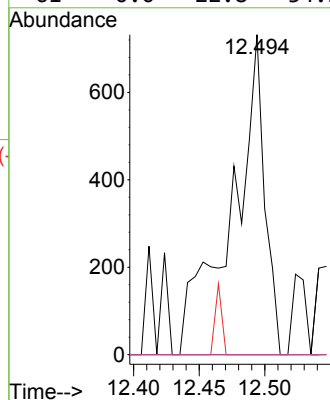
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 31.131 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079015.D

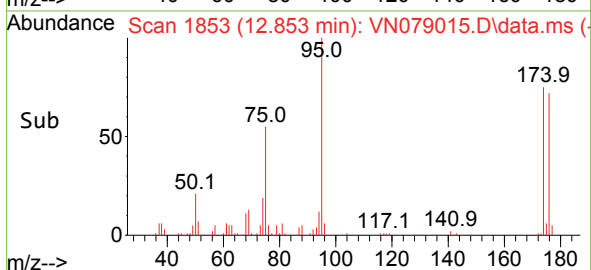
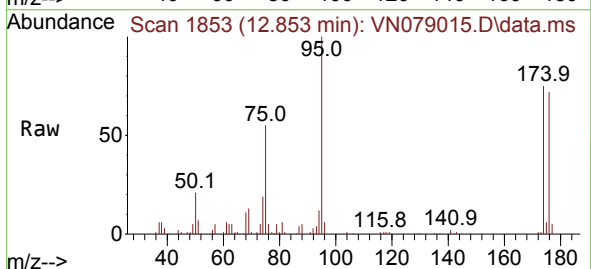
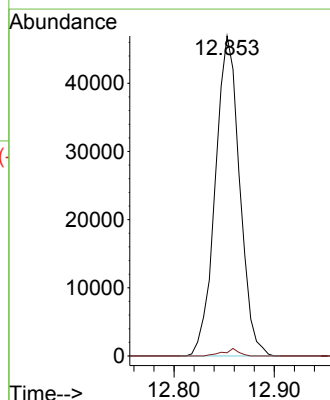
Acq: 23 Aug 2023 14:48

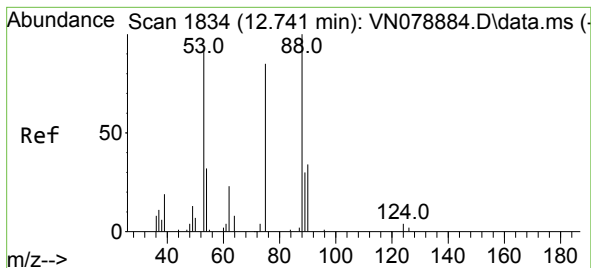
Tgt Ion: 75 Resp: 79123

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#

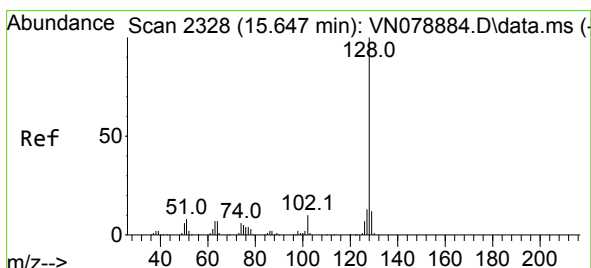
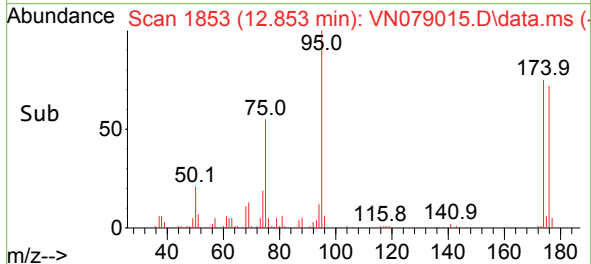
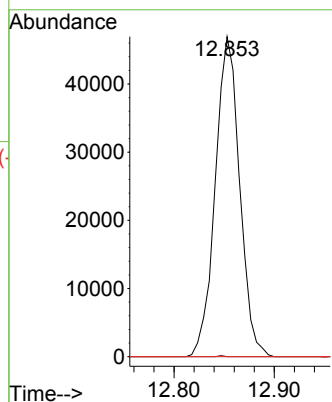
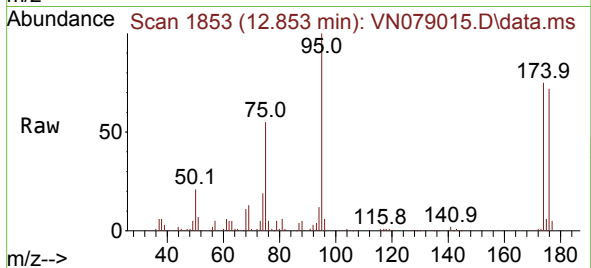




#81
trans-1,4-Dichloro-2-butene
Concen: 79.527 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 79123
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 2.890 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN079015.D
Acq: 23 Aug 2023 14:48

Tgt Ion:128 Resp: 1619
Ion Ratio Lower Upper
128 100
127 4.2 10.0 15.0#
129 0.0 8.7 13.1#

