

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081623\
 Data File : VN078906.D
 Acq On : 16 Aug 2023 16:29
 Operator : JC\MD
 Sample : 04020-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 E-2

Quant Time: Aug 17 01:18:25 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)

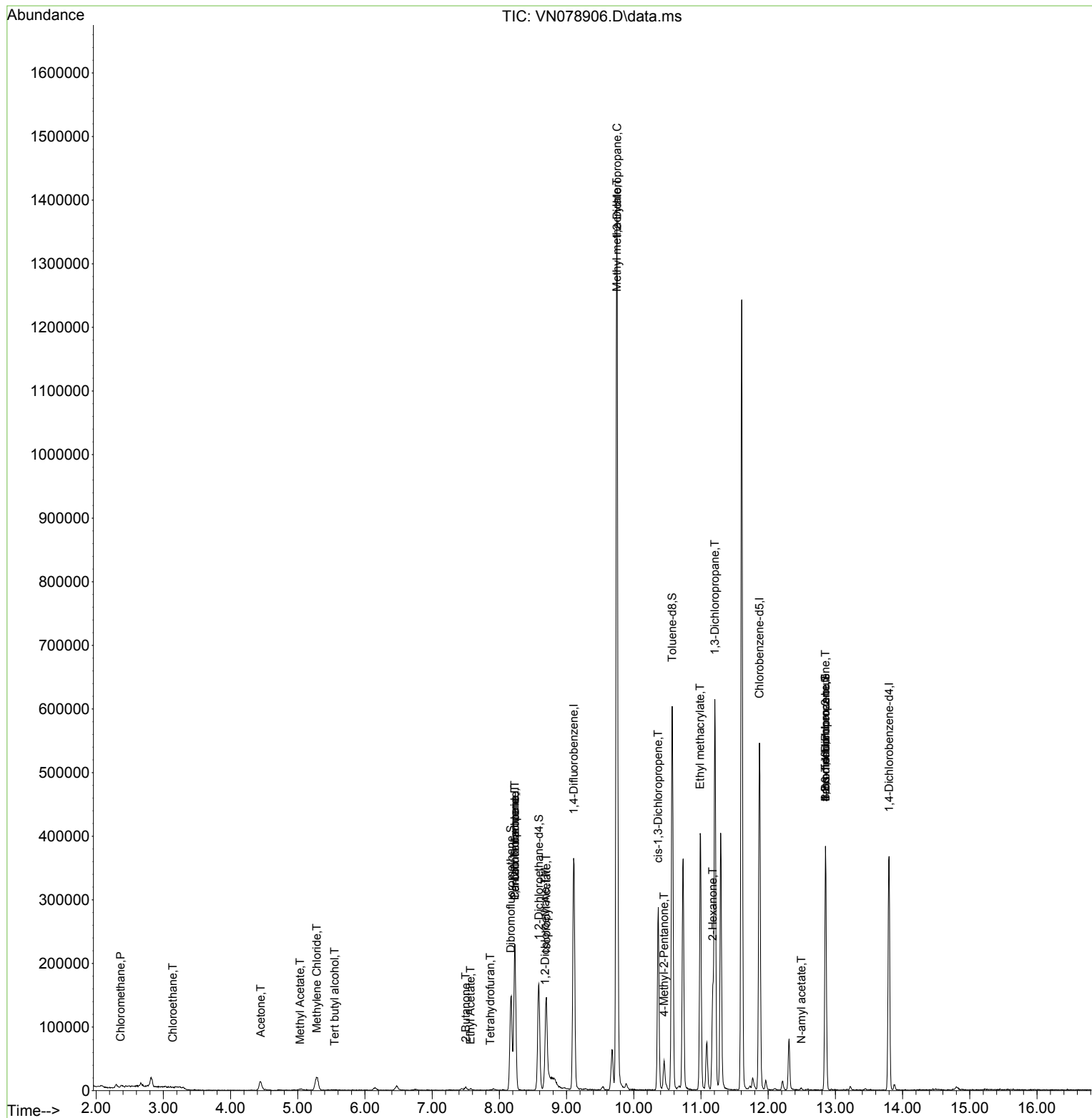
Internal Standards						
1) Pentafluorobenzene	8.229	168	156128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	300716	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	305512	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	94864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	133270	54.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.720%			
35) Dibromofluoromethane	8.171	113	104049	51.401	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.800%			
50) Toluene-d8	10.570	98	397617	52.901	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.800%			
62) 4-Bromofluorobenzene	12.853	95	124022	50.482	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.960%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1449	0.479	ug/l #	88
6) Chloroethane	3.142	64	770	0.415	ug/l #	43
11) Tert butyl alcohol	5.547	59	123	0.302	ug/l #	72
16) Acetone	4.447	43	27100	27.034	ug/l	93
18) Methyl Acetate	5.036	43	2432	0.574	ug/l #	60
20) Methylene Chloride	5.283	84	15420	7.218	ug/l #	77
25) 2-Butanone	7.500	43	7660	4.766	ug/l #	74
29) Tetrahydrofuran	7.865	42	227	0.213	ug/l #	20
31) Cyclohexane	8.229	56	4234	Below Cal	#	30
36) 1,1-Dichloropropene	8.229	75	15439	5.070	ug/l #	51
37) Ethyl Acetate	7.571	43	3625	1.064	ug/l #	72
38) Carbon Tetrachloride	8.229	117	17235	5.649	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	675	0.201	ug/l #	73
43) Isopropyl Acetate	8.700	43	186316	30.941	ug/l #	73
45) 1,2-Dichloropropane	9.753	63	1691	0.706	ug/l #	45
48) Methyl methacrylate	9.747	41	131460	48.176	ug/l #	28
51) 4-Methyl-2-Pentanone	10.453	43	37811	10.587	ug/l #	78
54) cis-1,3-Dichloropropene	10.365	75	46100	12.162	ug/l #	72
56) Ethyl methacrylate	10.988	69	2159	0.629	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6109	1.542	ug/l #	42
59) 2-Hexanone	11.176	43	131916	50.995	ug/l #	19
71) Bromoform	12.853	173	1290	0.722	ug/l #	1
74) N-amyl acetate	12.494	43	1842	0.461	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	68517	29.976	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	68517	76.575	ug/l #	15

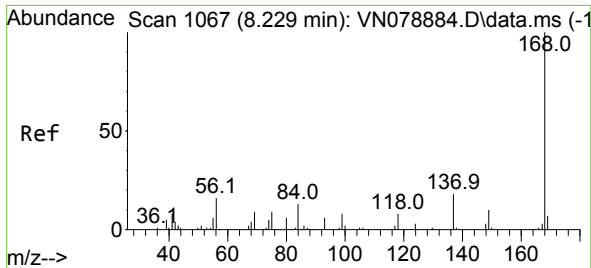
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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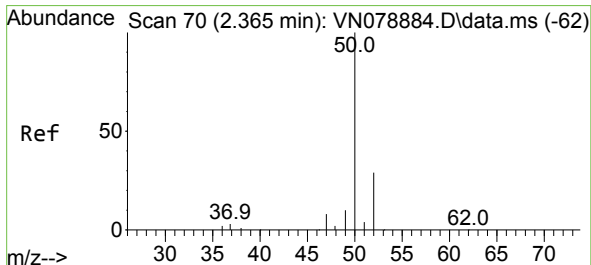
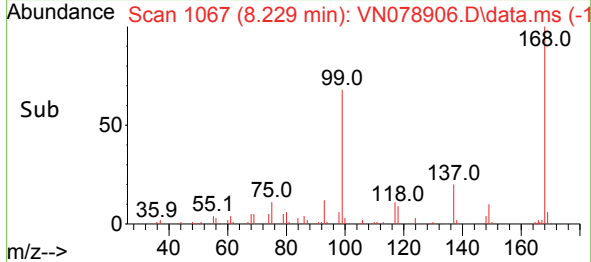
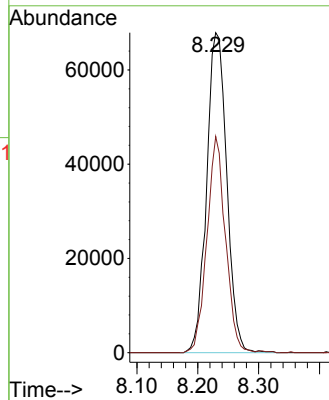
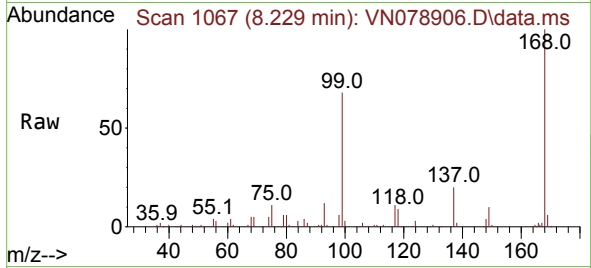




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

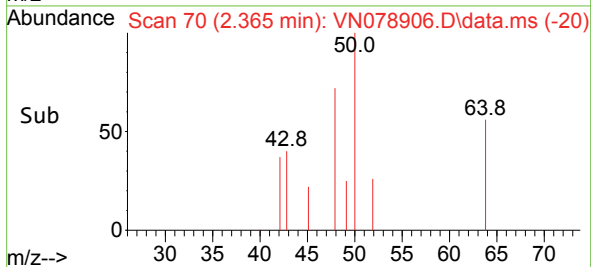
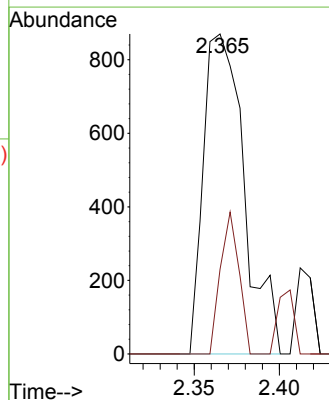
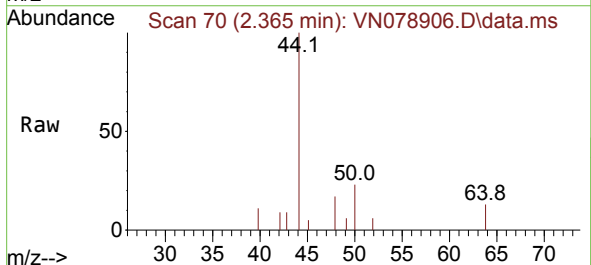
Instrument :
MSVOA_N
ClientSampleId :
E-2

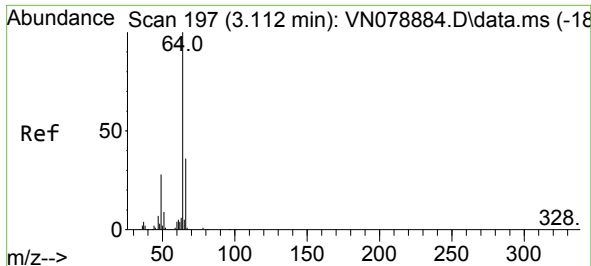
Tgt Ion:168 Resp: 156128
Ion Ratio Lower Upper
168 100
99 67.5 53.0 79.6



#3
Chloromethane
Concen: 0.479 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

Tgt Ion: 50 Resp: 1449
Ion Ratio Lower Upper
50 100
52 26.4 26.5 39.7#

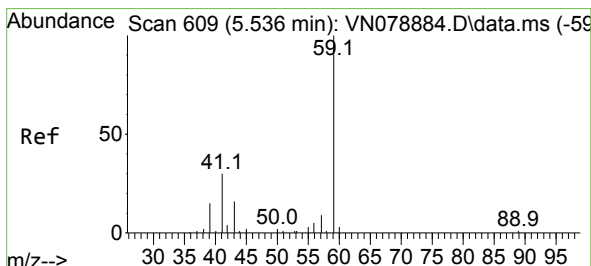
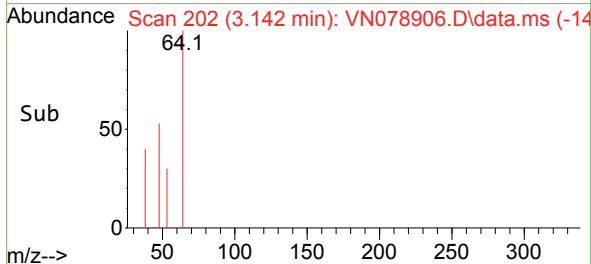
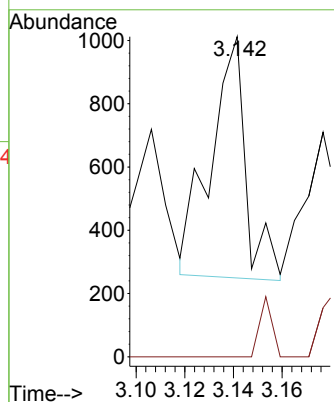
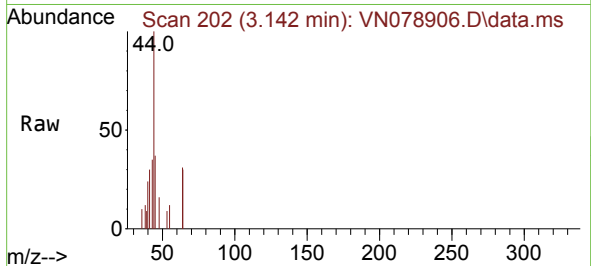




#6
Chloroethane
Concen: 0.415 ug/l
RT: 3.142 min Scan# 20
Delta R.T. 0.024 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

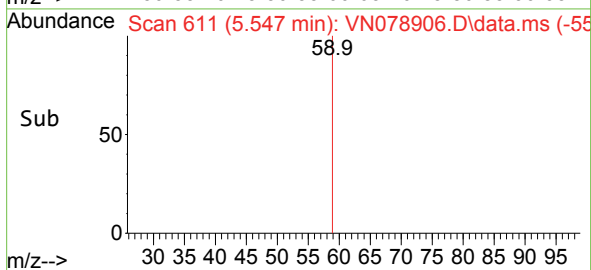
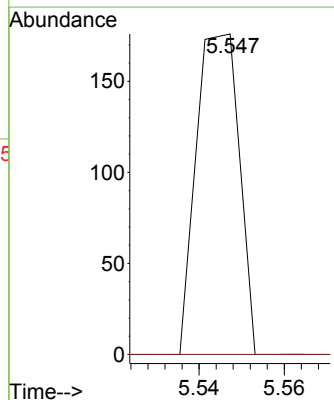
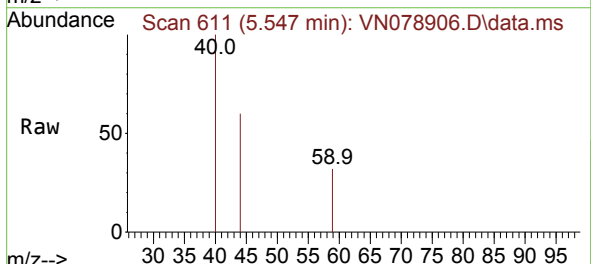
Instrument :
MSVOA_N
ClientSampleId :
E-2

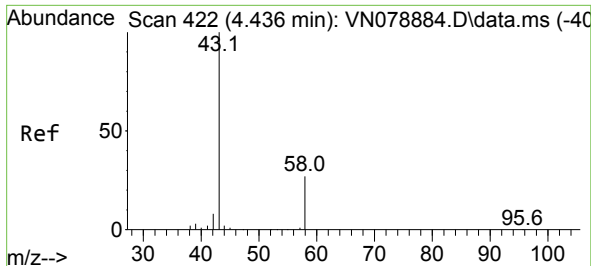
Tgt Ion: 64 Resp: 770
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.302 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

Tgt Ion: 59 Resp: 123
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 27.034 ug/l

RT: 4.447 min Scan# 41

Delta R.T. 0.005 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

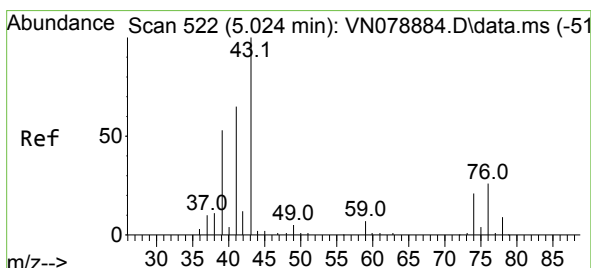
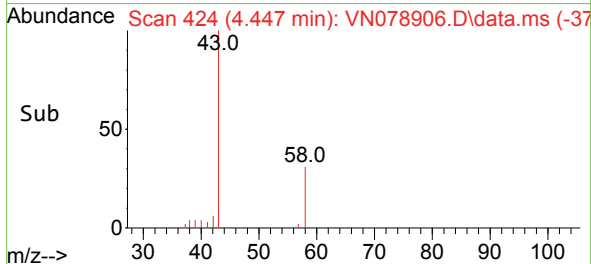
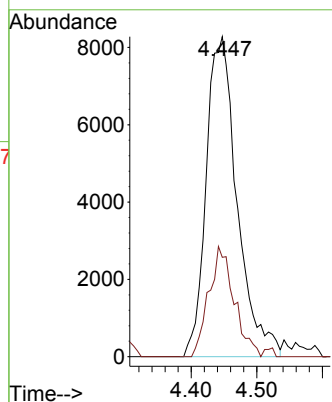
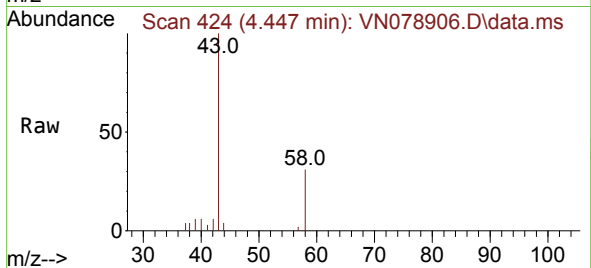
E-2

Tgt Ion: 43 Resp: 27100

Ion Ratio Lower Upper

43 100

58 31.1 28.0 42.0



#18

Methyl Acetate

Concen: 0.574 ug/l

RT: 5.036 min Scan# 524

Delta R.T. -0.006 min

Lab File: VN078906.D

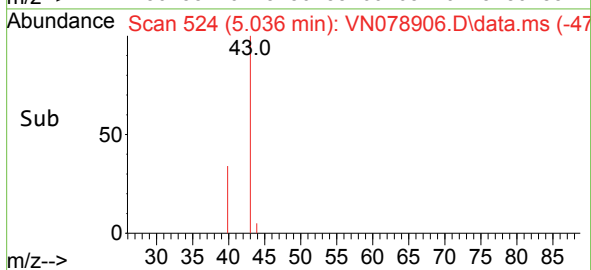
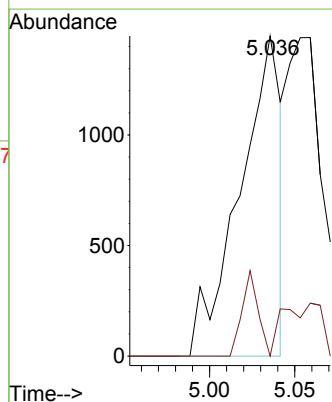
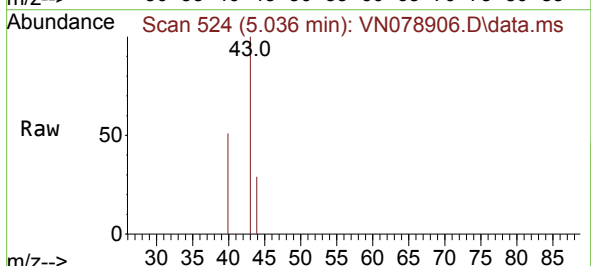
Acq: 16 Aug 2023 16:29

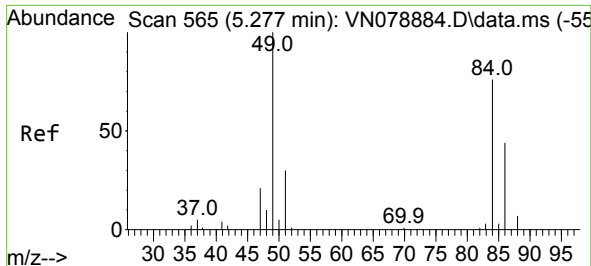
Tgt Ion: 43 Resp: 2432

Ion Ratio Lower Upper

43 100

74 10.4 26.2 39.4#

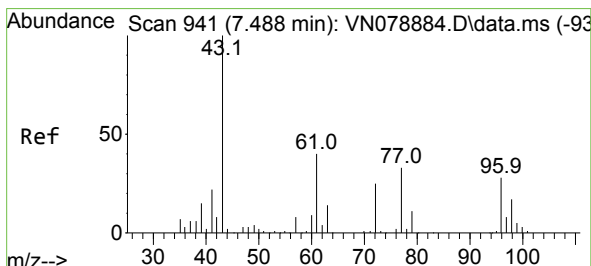
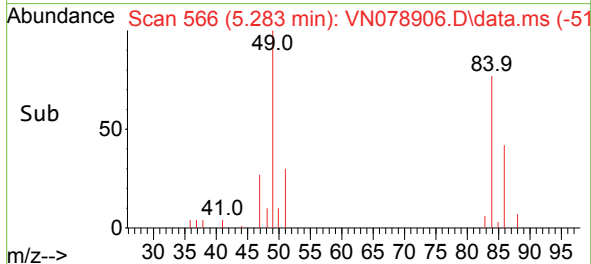
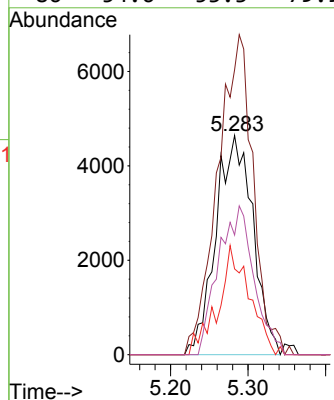
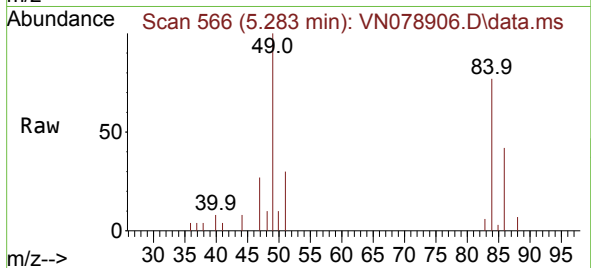




#20
Methylene Chloride
Concen: 7.218 ug/l
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

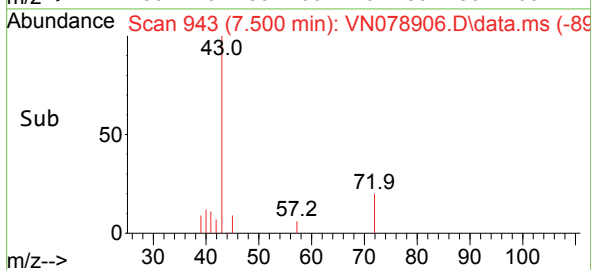
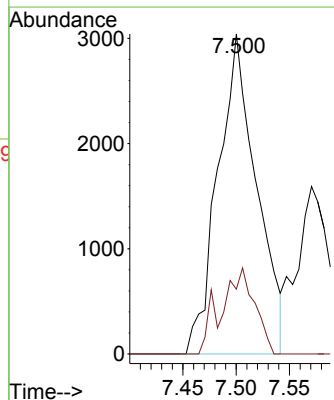
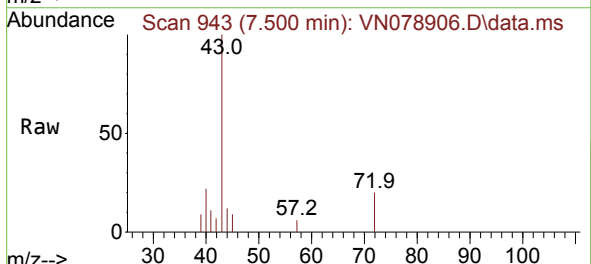
Instrument :
MSVOA_N
ClientSampleId :
E-2

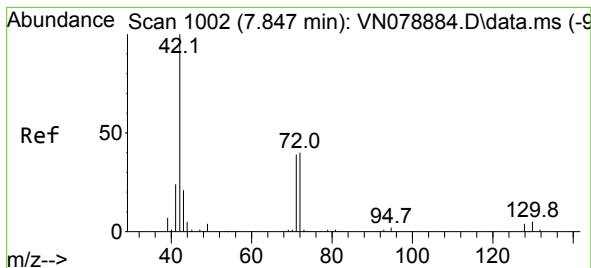
Tgt Ion:	84	Resp:	15420
Ion	Ratio	Lower	Upper
84	100		
49	130.0	79.7	119.5#
51	39.1	25.2	37.8#
86	54.6	53.3	79.9



#25
2-Butanone
Concen: 4.766 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

Tgt Ion:	43	Resp:	7660
Ion	Ratio	Lower	Upper
43	100		
72	21.8	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 7.865 min Scan# 10

Delta R.T. 0.018 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

E-2

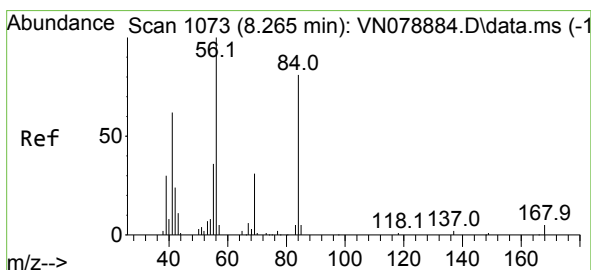
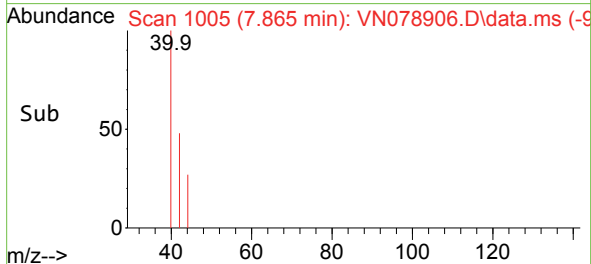
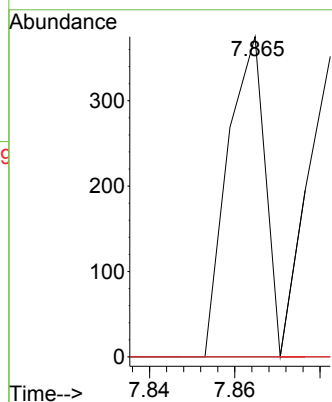
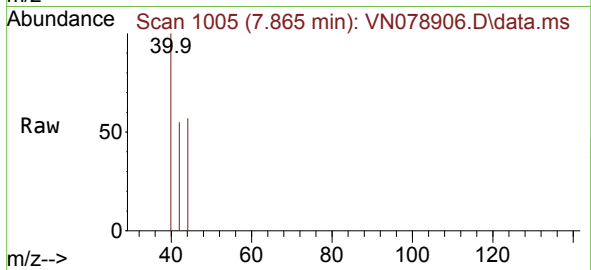
Tgt Ion: 42 Resp: 227

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: 8.229 min Scan# 1067

Delta R.T. -0.036 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

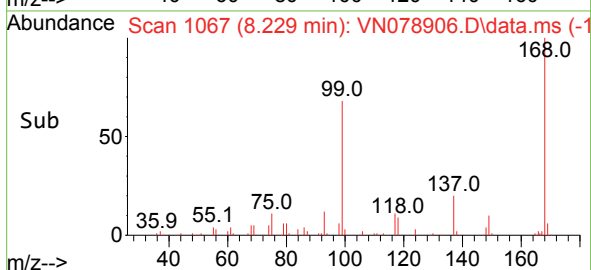
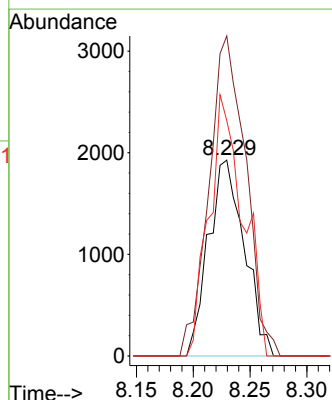
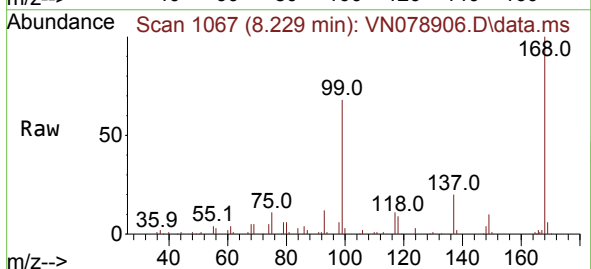
Tgt Ion: 56 Resp: 4234

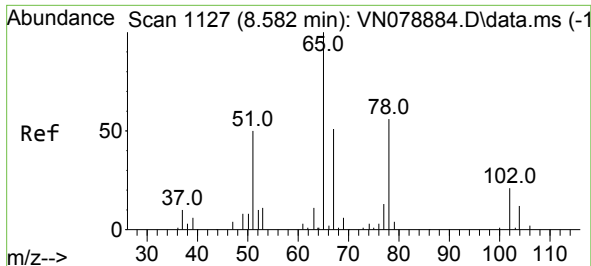
Ion Ratio Lower Upper

56 100

69 163.3 26.8 40.2#

84 120.1 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.855 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

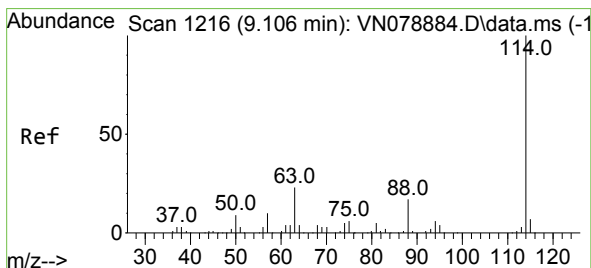
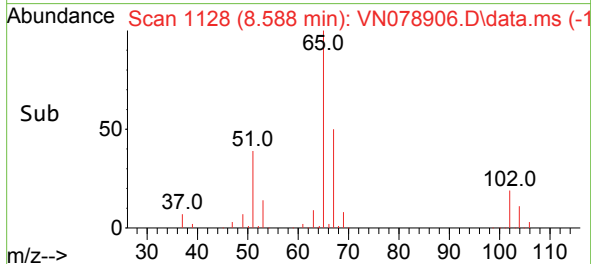
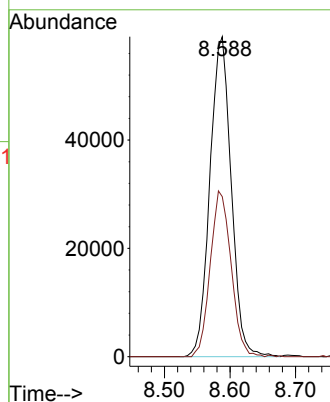
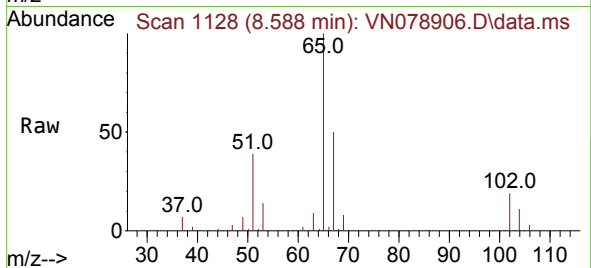
E-2

Tgt Ion: 65 Resp: 133270

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

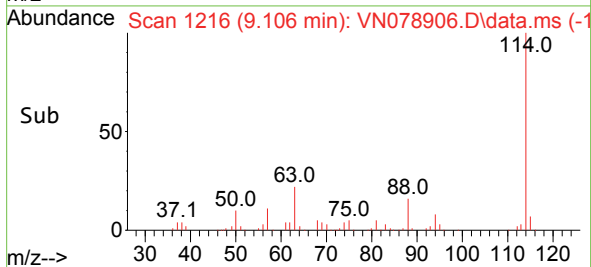
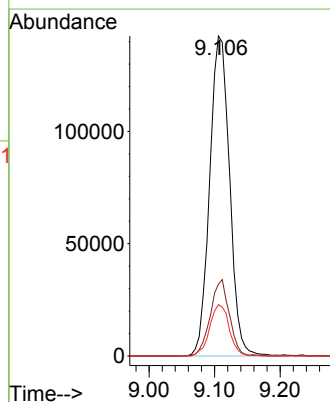
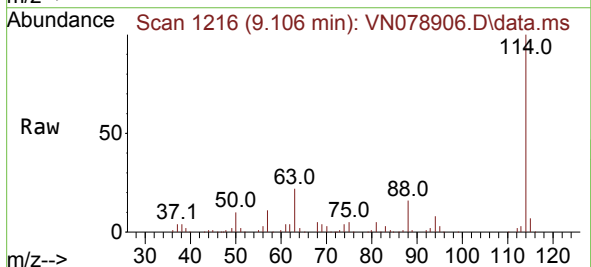
Tgt Ion: 114 Resp: 300716

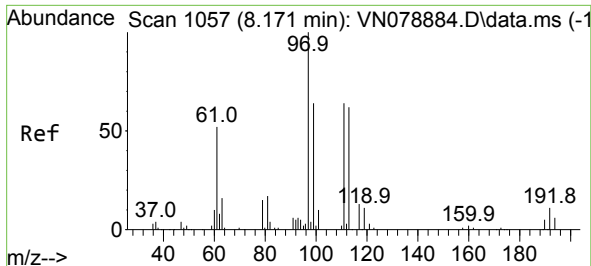
Ion Ratio Lower Upper

114 100

63 22.5 0.0 36.4

88 16.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.401 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

E-2

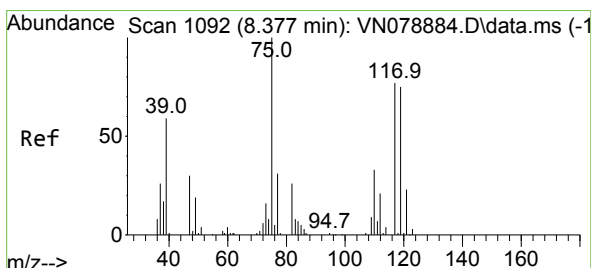
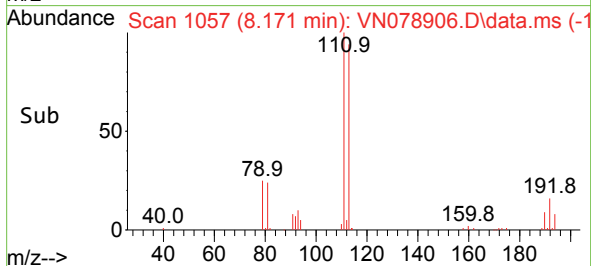
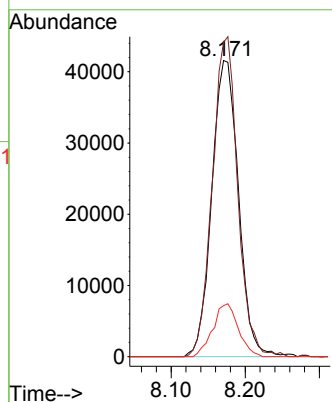
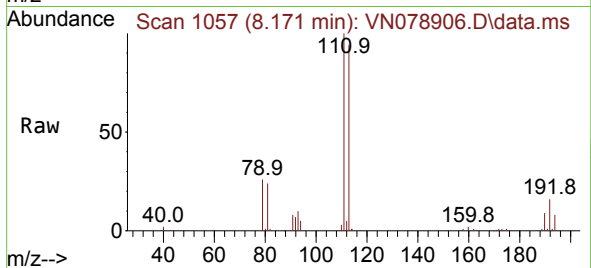
Tgt Ion:113 Resp: 104049

Ion Ratio Lower Upper

113 100

111 102.7 82.6 123.8

192 17.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.070 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

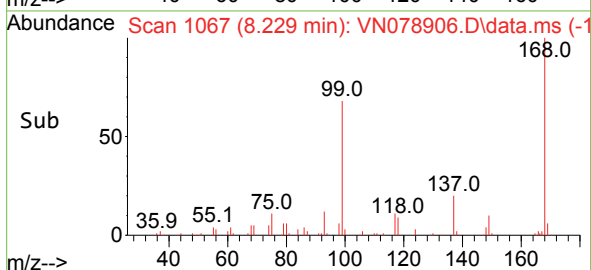
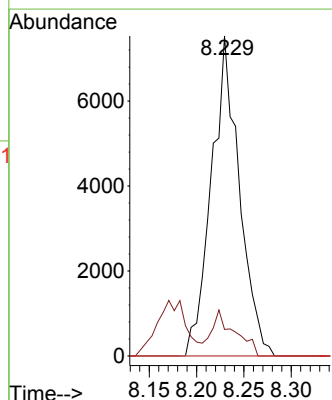
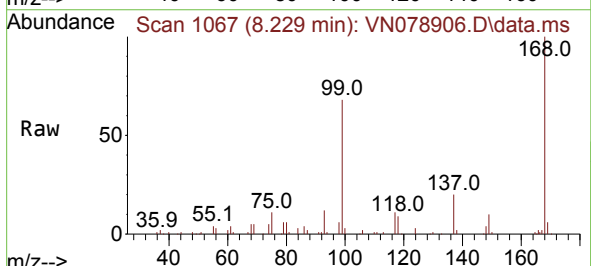
Tgt Ion: 75 Resp: 15439

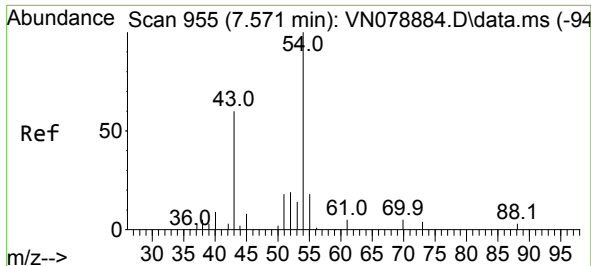
Ion Ratio Lower Upper

75 100

110 11.9 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.064 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

E-2

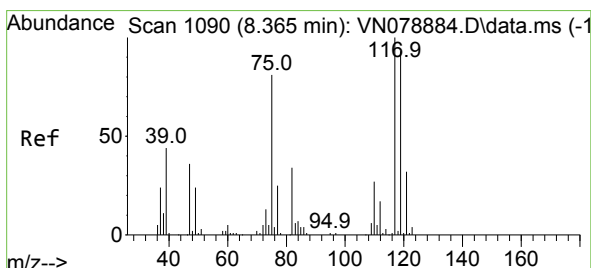
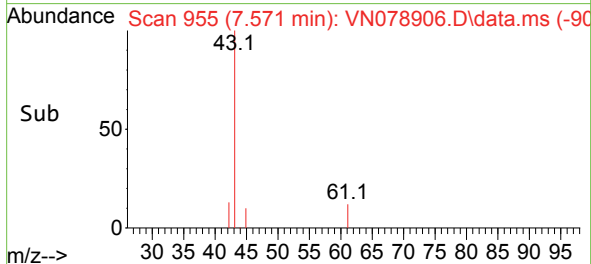
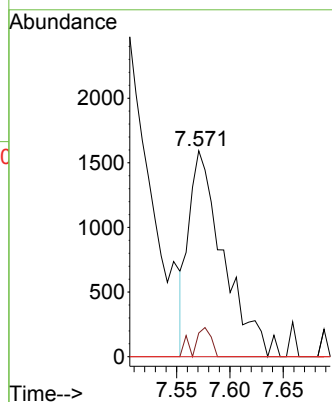
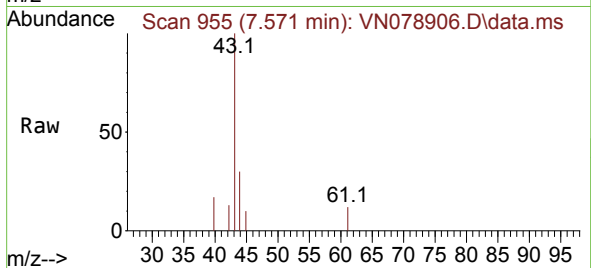
Tgt Ion: 43 Resp: 3625

Ion Ratio Lower Upper

43 100

61 7.1 13.2 19.8#

70 0.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.649 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.142 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

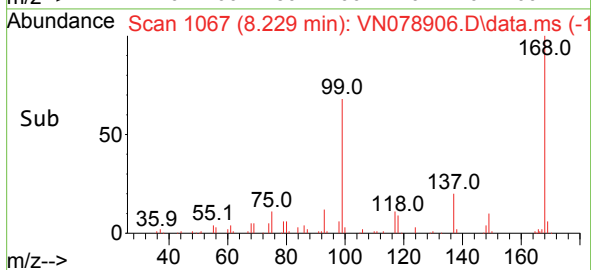
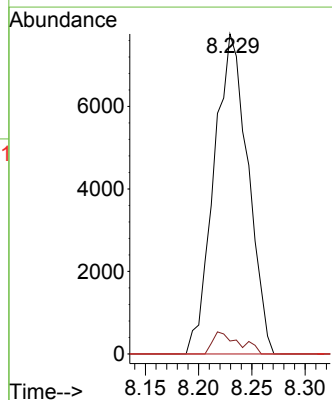
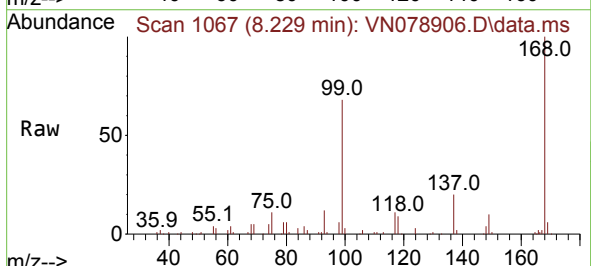
Tgt Ion: 117 Resp: 17235

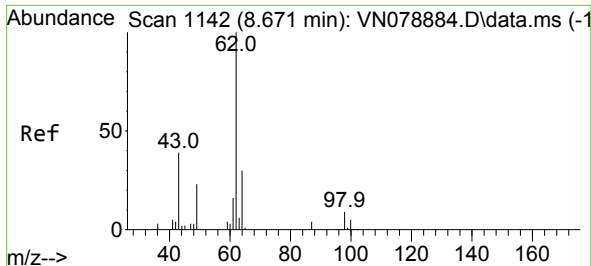
Ion Ratio Lower Upper

117 100

119 4.1 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.201 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

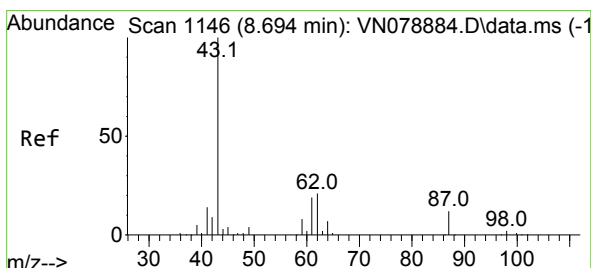
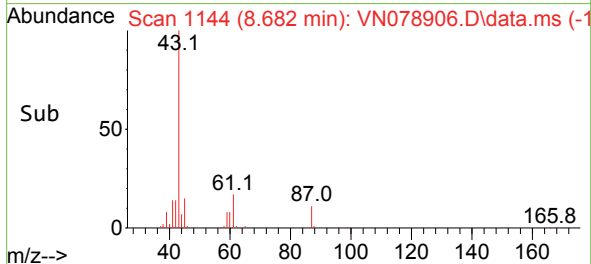
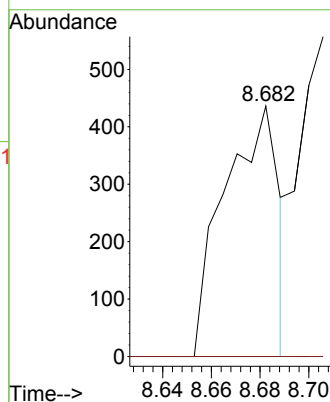
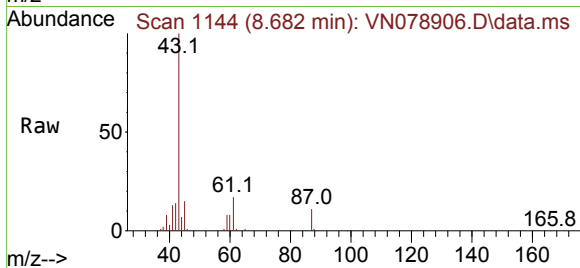
E-2

Tgt Ion: 62 Resp: 675

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 30.941 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

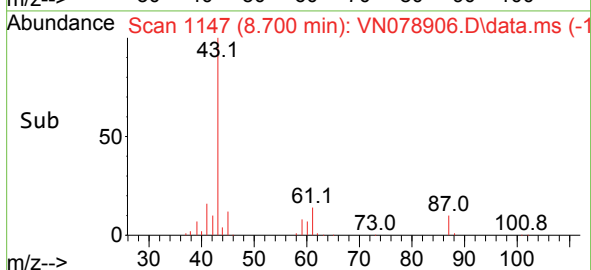
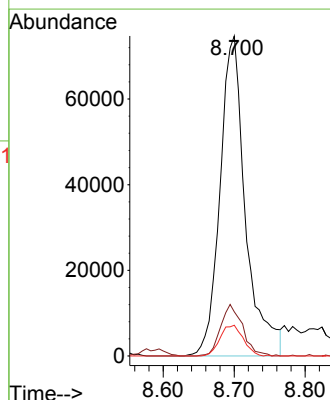
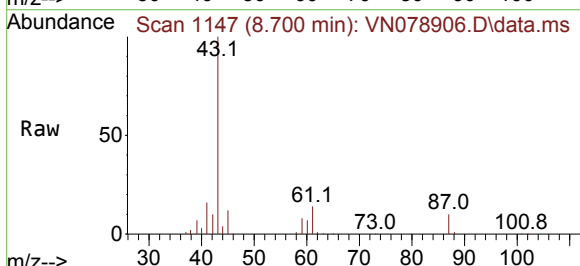
Tgt Ion: 43 Resp: 186316

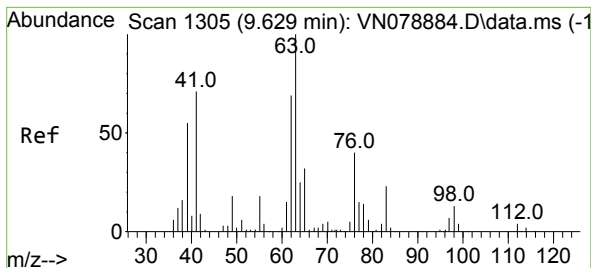
Ion Ratio Lower Upper

43 100

61 13.9 24.7 37.1#

87 8.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.706 ug/l

RT: 9.753 min Scan# 1

Delta R.T. 0.129 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

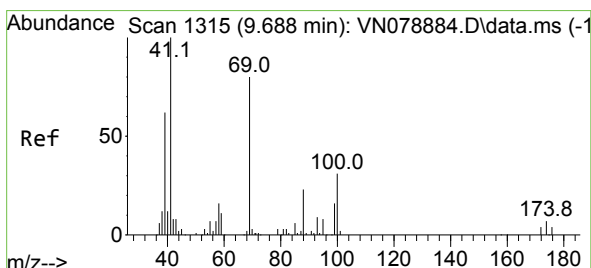
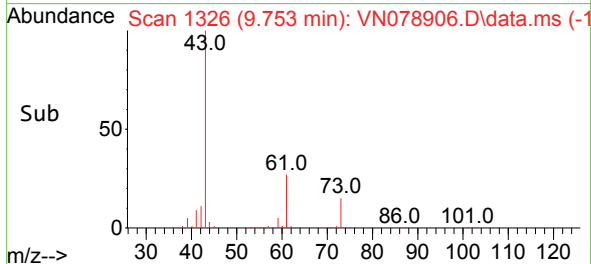
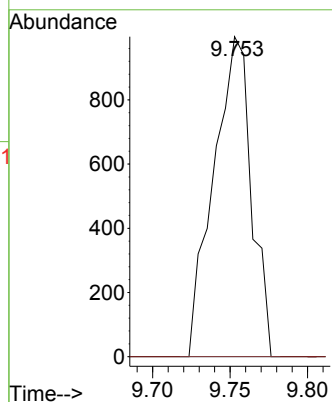
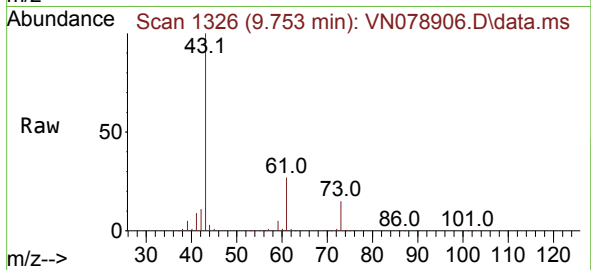
E-2

Tgt Ion: 63 Resp: 1691

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 48.176 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

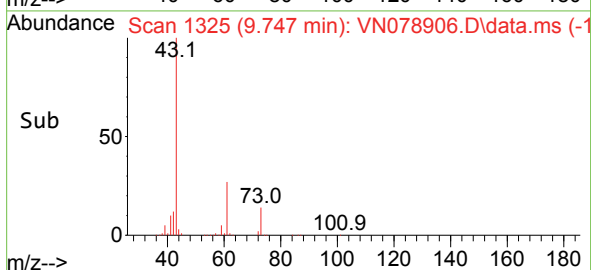
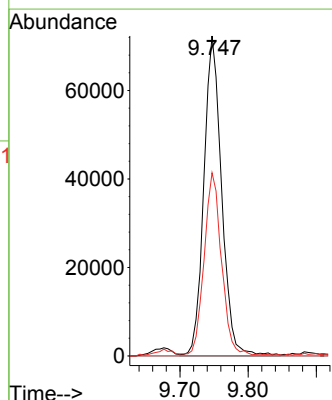
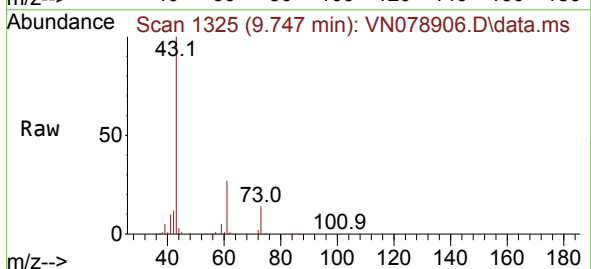
Tgt Ion: 41 Resp: 131460

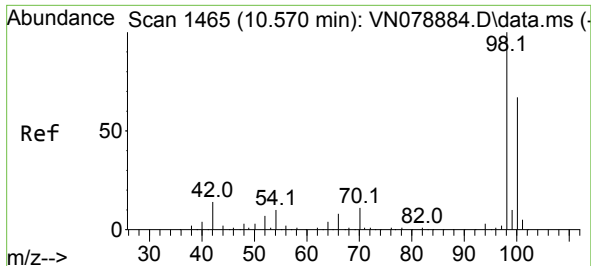
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 54.9 54.6 81.8

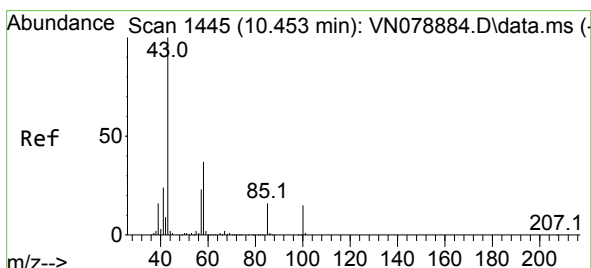
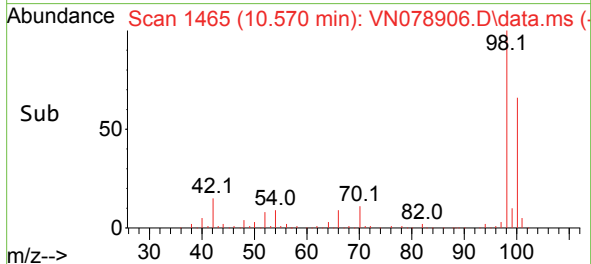
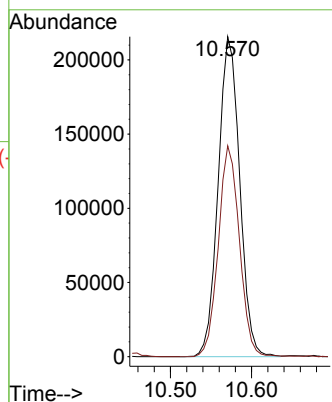
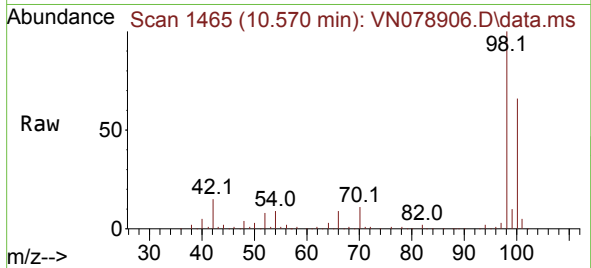




#50
Toluene-d8
Concen: 52.901 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

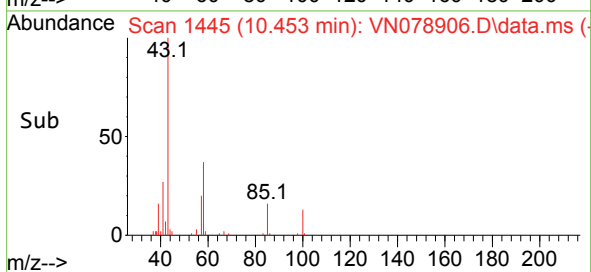
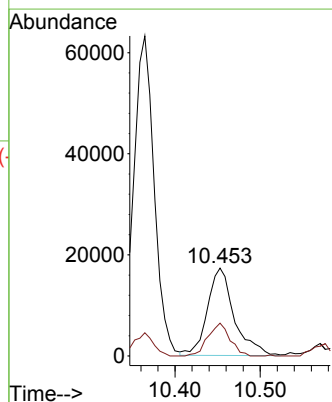
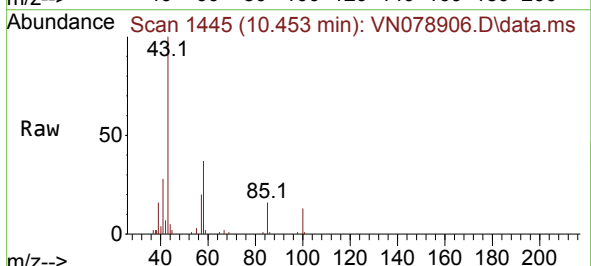
Instrument :
MSVOA_N
ClientSampleId :
E-2

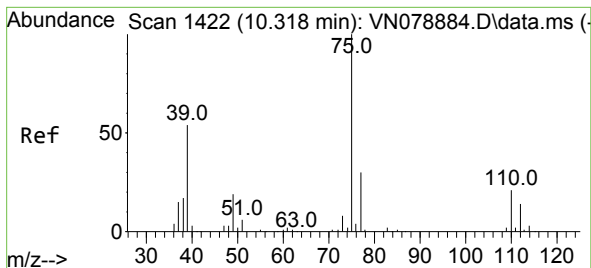
Tgt Ion: 98 Resp: 397617
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 10.587 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078906.D
Acq: 16 Aug 2023 16:29

Tgt Ion: 43 Resp: 37811
Ion Ratio Lower Upper
43 100
58 30.9 36.6 54.8#

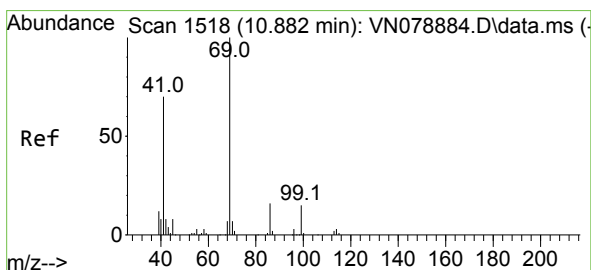
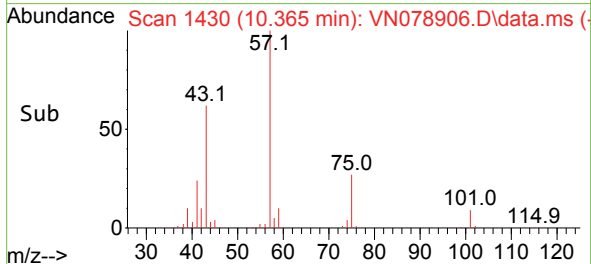
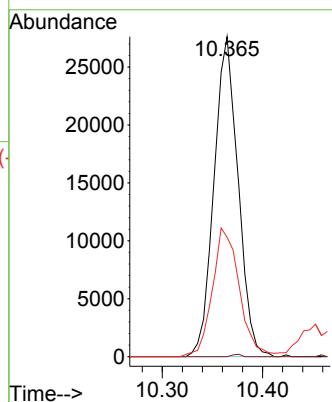
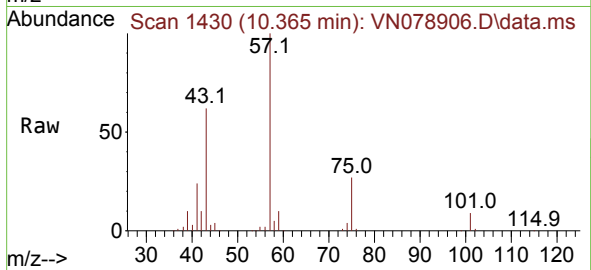




#54
 cis-1,3-Dichloropropene
 Concen: 12.162 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078906.D
 Acq: 16 Aug 2023 16:29

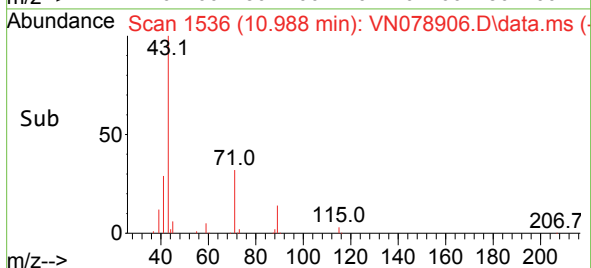
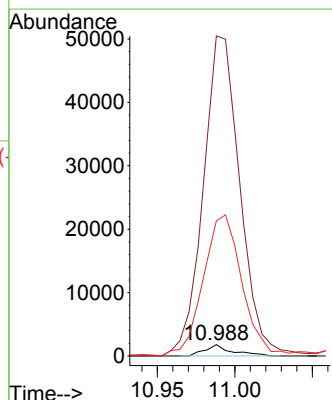
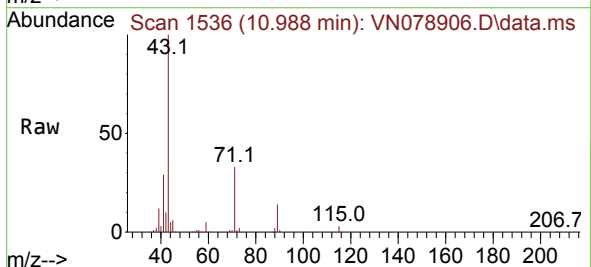
Instrument :
 MSVOA_N
 ClientSampleId :
 E-2

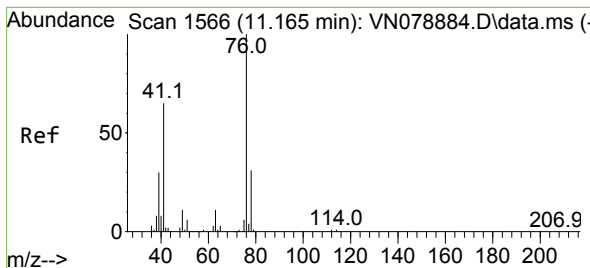
Tgt Ion: 75 Resp: 46100
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 37.4 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.629 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.111 min
 Lab File: VN078906.D
 Acq: 16 Aug 2023 16:29

Tgt Ion: 69 Resp: 2159
 Ion Ratio Lower Upper
 69 100
 41 3855.2 39.6 59.4#
 39 1748.6 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.542 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

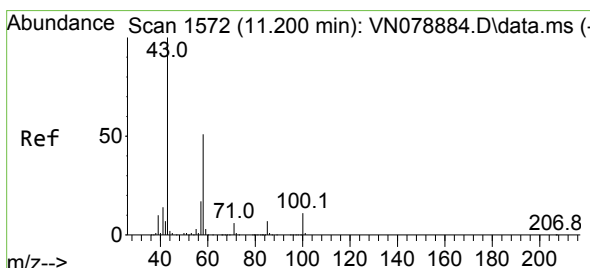
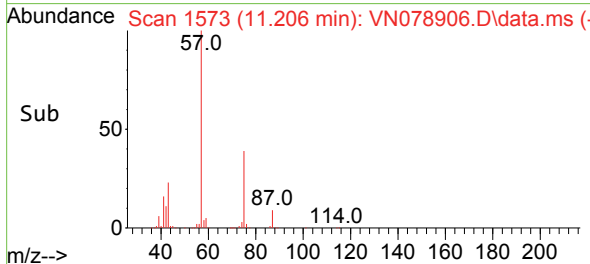
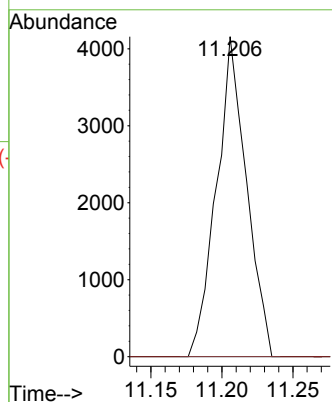
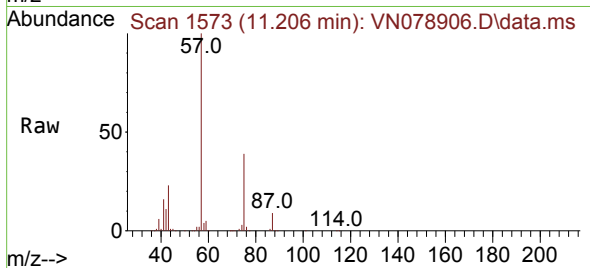
E-2

Tgt Ion: 76 Resp: 6109

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 50.995 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078906.D

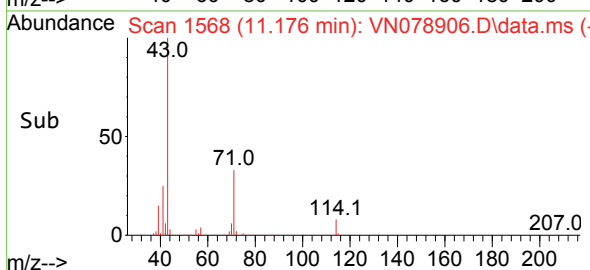
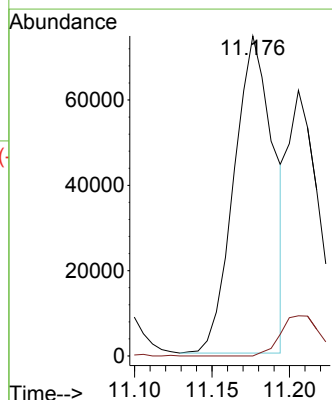
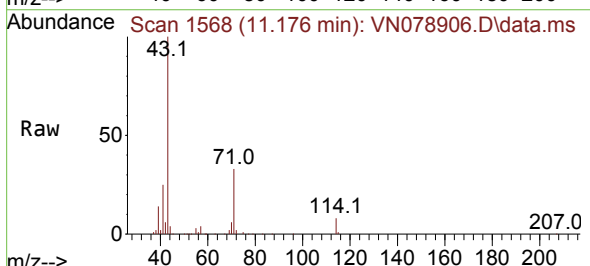
Acq: 16 Aug 2023 16:29

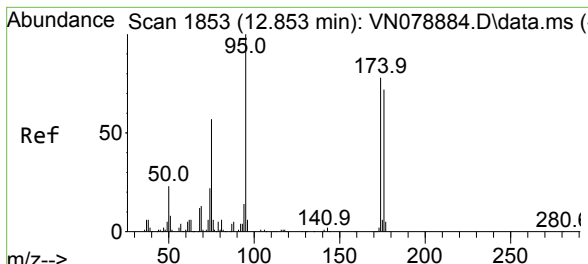
Tgt Ion: 43 Resp: 131916

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

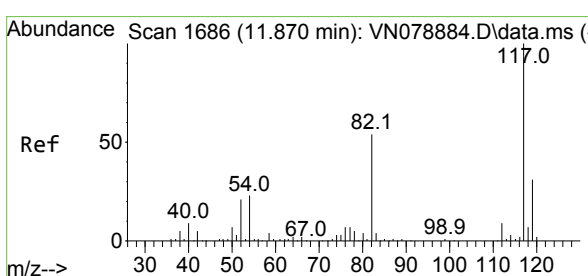
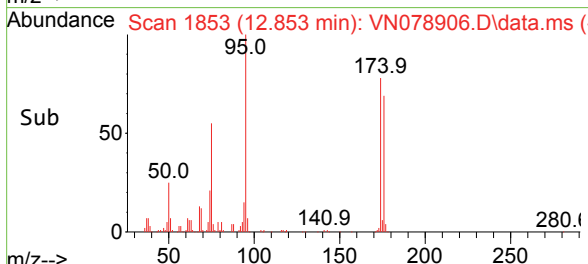
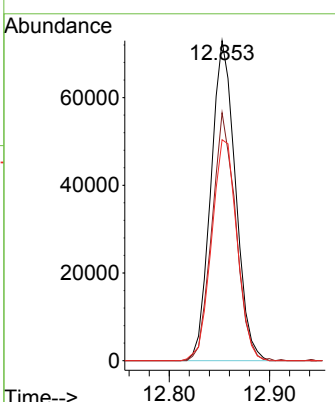
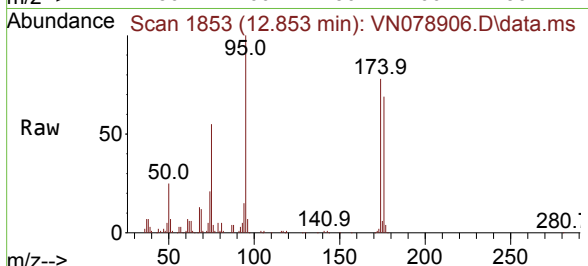




#62
 4-Bromofluorobenzene
 Concen: 50.482 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078906.D
 Acq: 16 Aug 2023 16:29

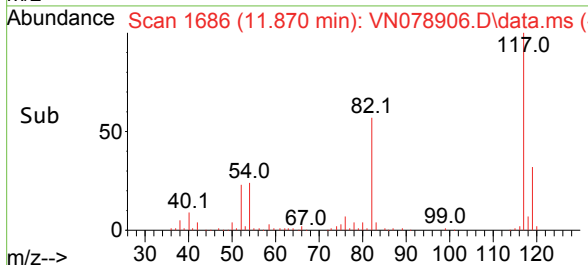
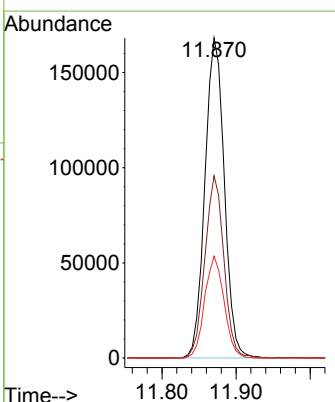
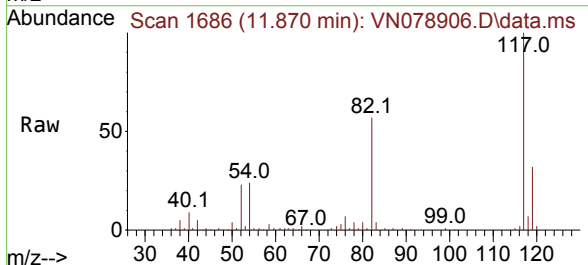
Instrument :
 MSVOA_N
 ClientSampleId :
 E-2

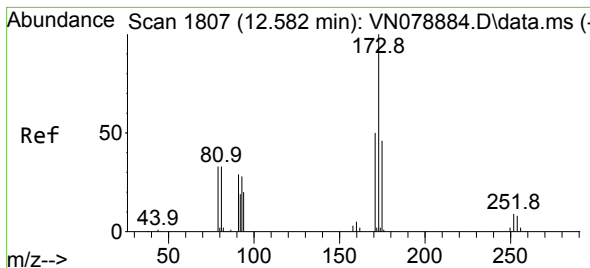
Tgt Ion:	95	Resp:	124022
Ion Ratio	Lower	Upper	
95	100		
174	74.8	0.0	143.8
176	71.4	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078906.D
 Acq: 16 Aug 2023 16:29

Tgt Ion:	117	Resp:	305512
Ion Ratio	Lower	Upper	
117	100		
82	57.0	44.0	66.0
119	31.8	25.6	38.4





#71

Bromoform

Concen: 0.722 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

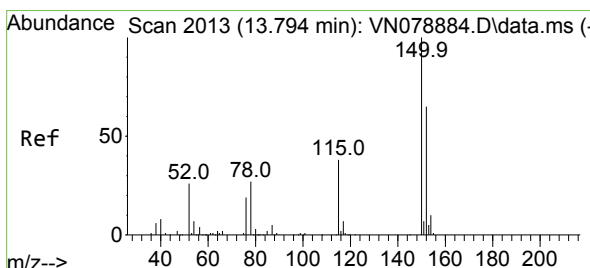
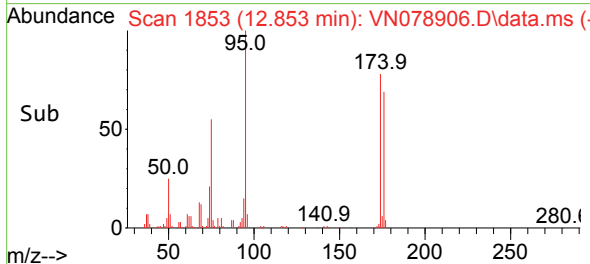
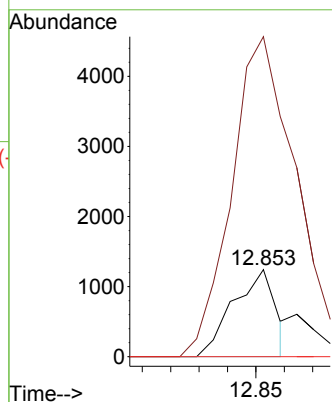
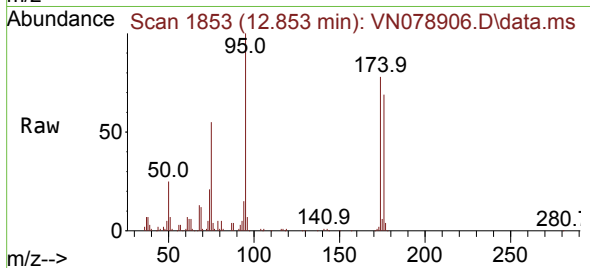
Instrument :

MSVOA_N

ClientSampleId :

E-2

Tgt Ion:173 Resp: 1290
 Ion Ratio Lower Upper
 173 100
 175 425.6 24.3 73.0#
 254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

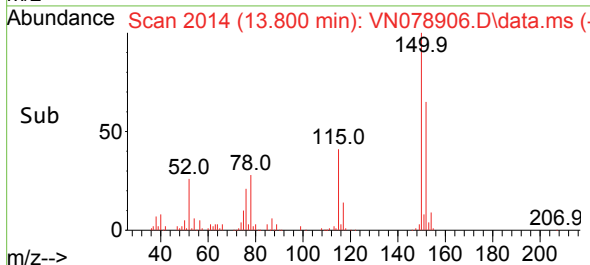
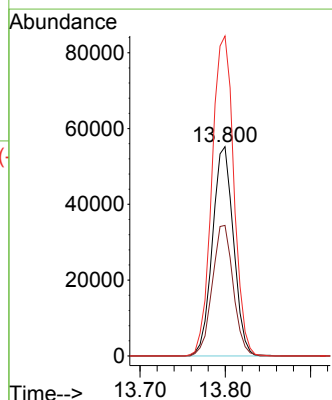
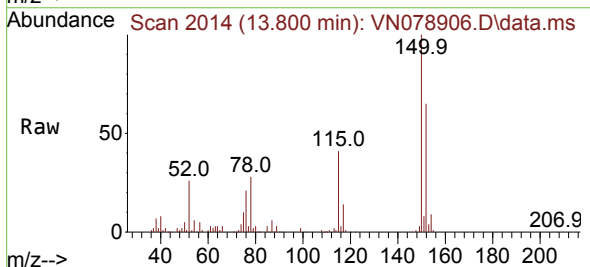
RT: 13.800 min Scan# 2014

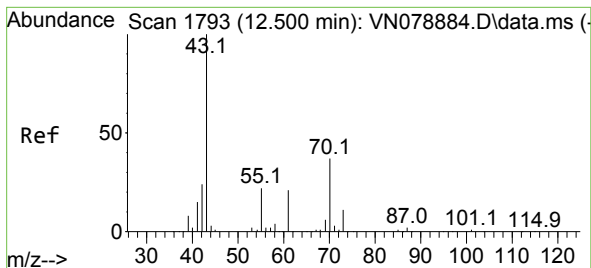
Delta R.T. 0.006 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Tgt Ion:152 Resp: 94864
 Ion Ratio Lower Upper
 152 100
 115 62.0 32.3 96.8
 150 158.8 0.0 355.8





#74

N-amy1 acetate

Concen: 0.461 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078906.D

Acq: 16 Aug 2023 16:29

Instrument :

MSVOA_N

ClientSampleId :

E-2

Tgt Ion: 43 Resp: 1842

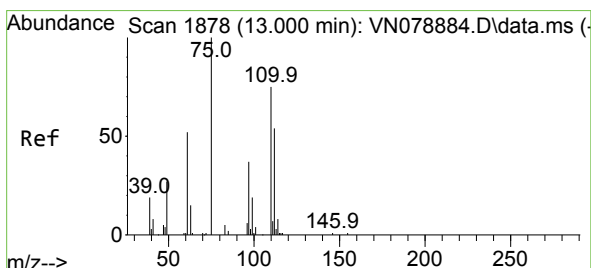
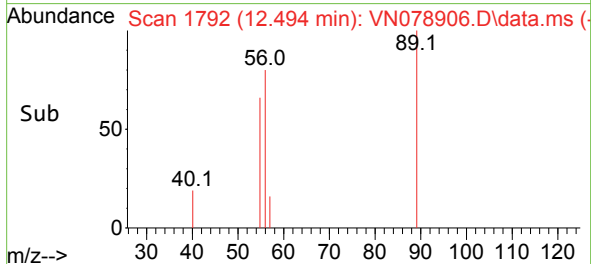
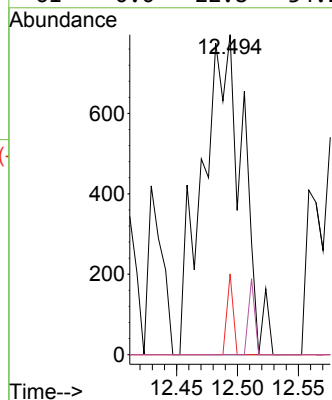
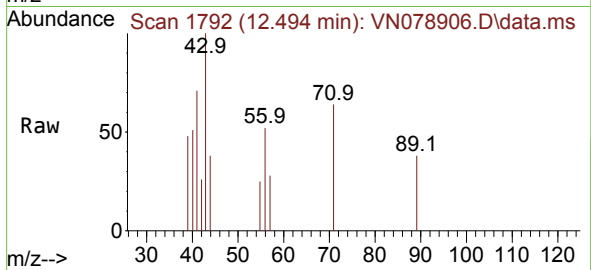
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 3.9 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 29.976 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078906.D

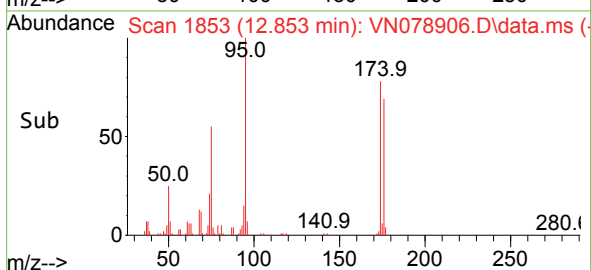
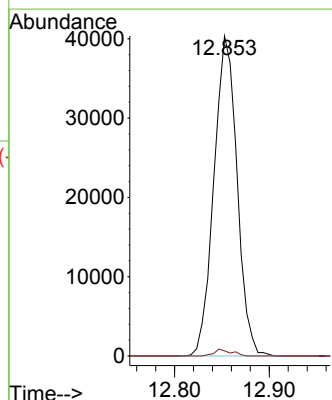
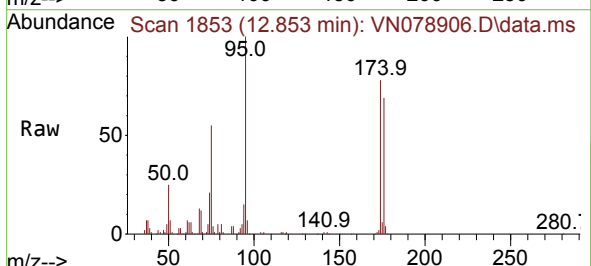
Acq: 16 Aug 2023 16:29

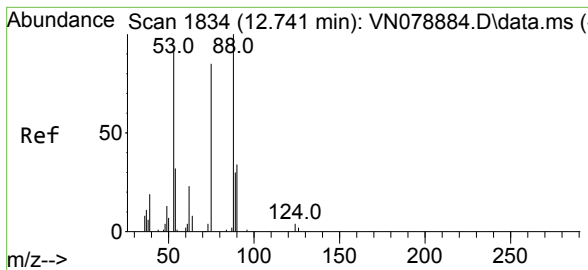
Tgt Ion: 75 Resp: 68517

Ion Ratio Lower Upper

75 100

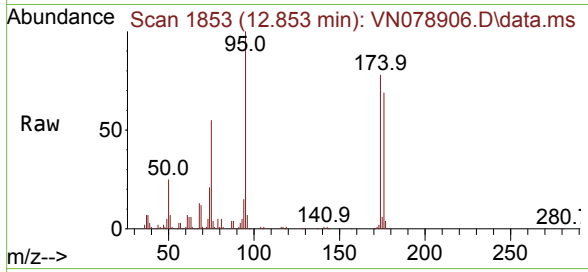
77 1.6 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.575 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078906.D
 Acq: 16 Aug 2023 16:29

Instrument :
 MSVOA_N
 ClientSampleId :
 E-2



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

