

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011323\
 Data File : VN076247.D
 Acq On : 13 Jan 2023 14:39
 Operator : JC\MD
 Sample : 01135-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

Quant Time: Jan 16 01:08:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

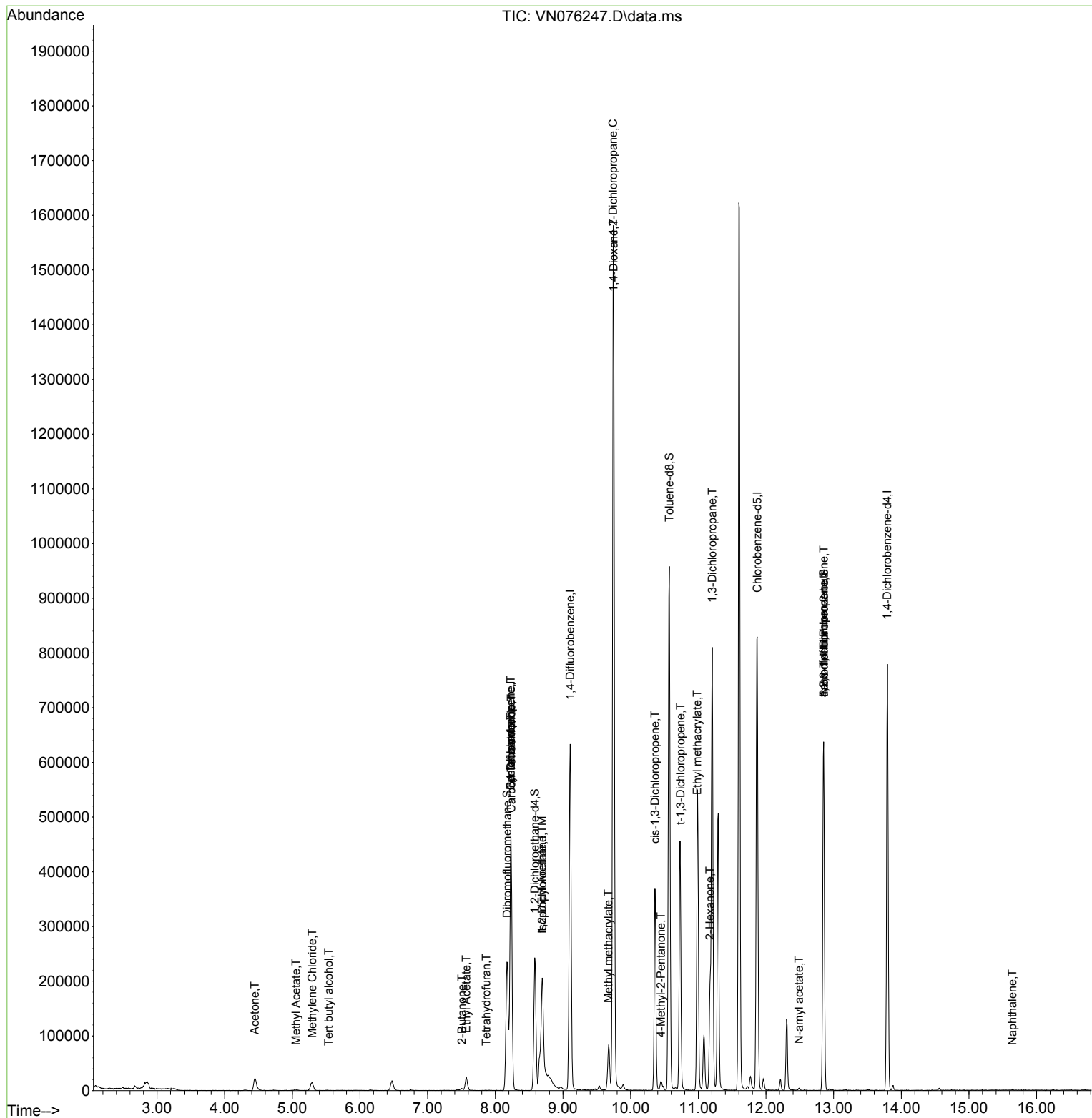
Internal Standards						
1) Pentafluorobenzene	8.230	168	351317	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	572909	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	519263	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	218729	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	192191	50.285	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.580%	
35) Dibromofluoromethane	8.177	113	169862	47.876	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.760%	
50) Toluene-d8	10.571	98	676307	50.983	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.960%	
62) 4-Bromofluorobenzene	12.853	95	212661	48.402	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.800%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	327	0.605	ug/l #	72
16) Acetone	4.448	43	42852	32.525	ug/l	99
18) Methyl Acetate	5.053	43	3645	0.936	ug/l #	82
20) Methylene Chloride	5.295	84	12689	2.998	ug/l #	85
25) 2-Butanone	7.506	43	6375	3.456	ug/l	94
29) Tetrahydrofuran	7.865	42	325	0.281	ug/l #	45
31) Cyclohexane	8.230	56	7465	1.364	ug/l #	35
36) 1,1-Dichloropropene	8.230	75	26509	5.625	ug/l #	49
37) Ethyl Acetate	7.571	43	34875	9.212	ug/l	97
38) Carbon Tetrachloride	8.236	117	34755	6.589	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1509	0.312	ug/l #	72
43) Isopropyl Acetate	8.694	43	291250	46.638	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	2054	0.580	ug/l #	43
48) Methyl methacrylate	9.671	41	4943	1.757	ug/l #	34
49) 1,4-Dioxane	9.747	88	128	1.851	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	15959	4.226	ug/l #	72
53) t-1,3-Dichloropropene	10.735	75	1437	0.285	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	72637	13.131	ug/l #	64
56) Ethyl methacrylate	10.982	69	1982	0.401	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8604	1.411	ug/l #	42
59) 2-Hexanone	11.171	43	142743	51.827	ug/l #	20
71) Bromoform	12.853	173	1561	0.543	ug/l #	1
74) N-amyl acetate	12.488	43	2192	0.473	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	114282	25.920	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114282	93.299	ug/l #	12
95) Naphthalene	15.641	128	1146	2.270	ug/l #	76

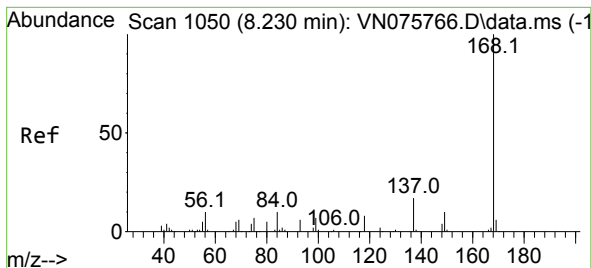
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

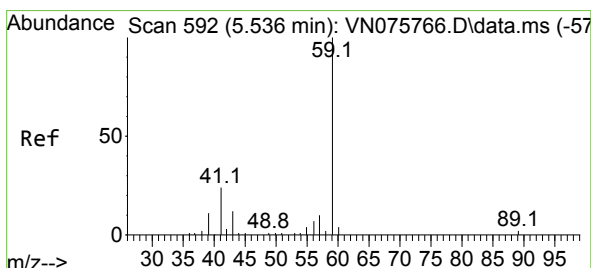
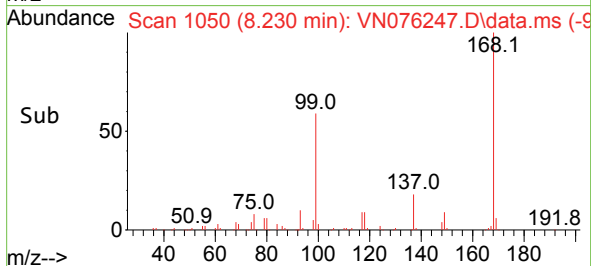
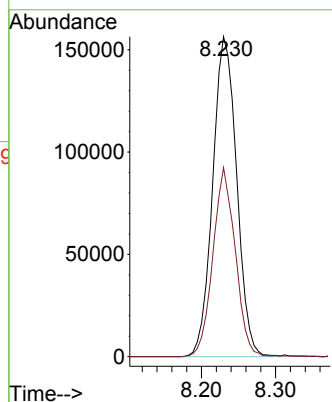
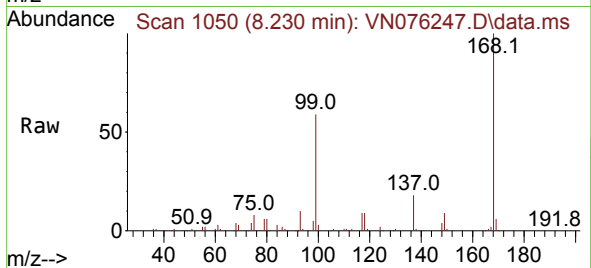
WC-2

Tgt Ion:168 Resp: 351317

Ion Ratio Lower Upper

168 100

99 59.1 44.2 66.4



#11

Tert butyl alcohol

Concen: 0.605 ug/l

RT: 5.536 min Scan# 592

Delta R.T. 0.000 min

Lab File: VN076247.D

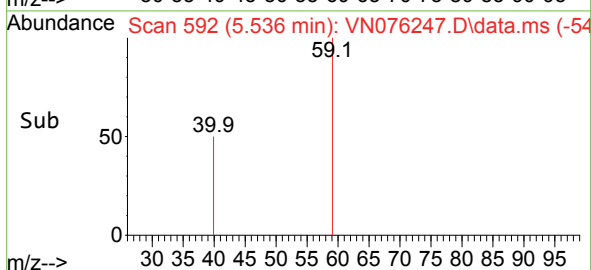
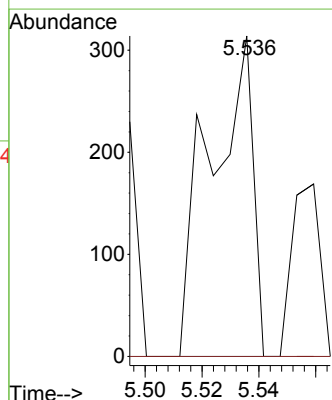
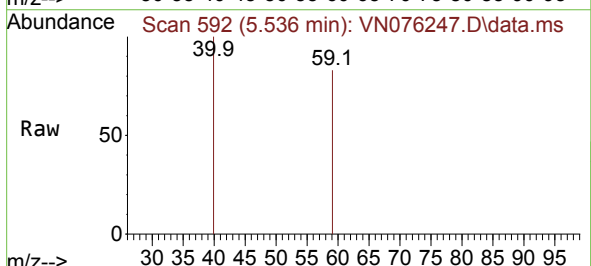
Acq: 13 Jan 2023 14:39

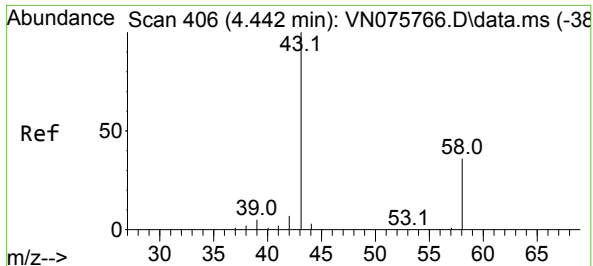
Tgt Ion: 59 Resp: 327

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

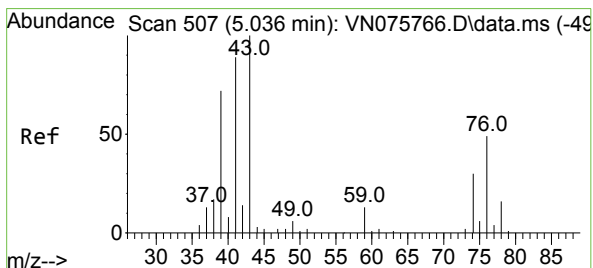
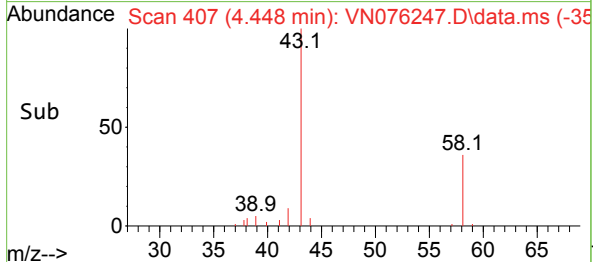
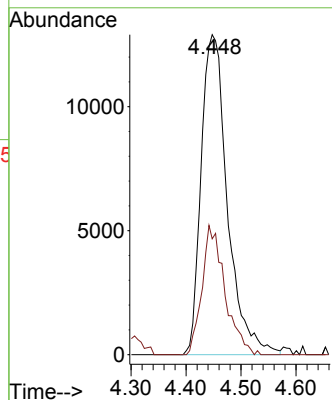
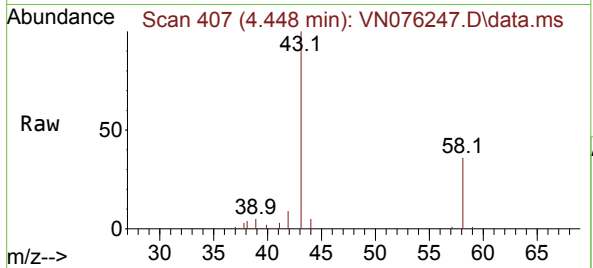




#16
Acetone
Concen: 32.525 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

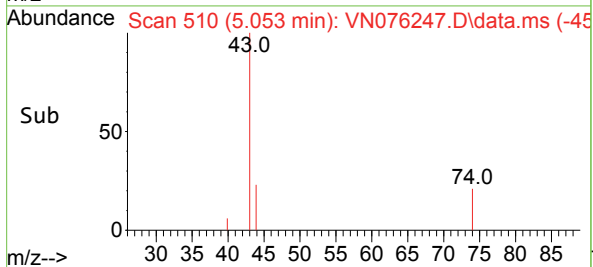
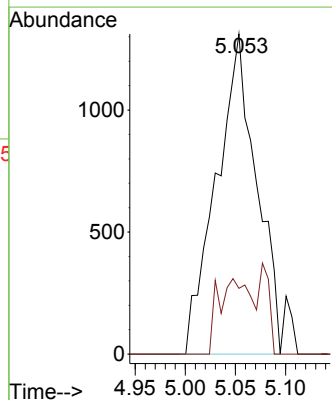
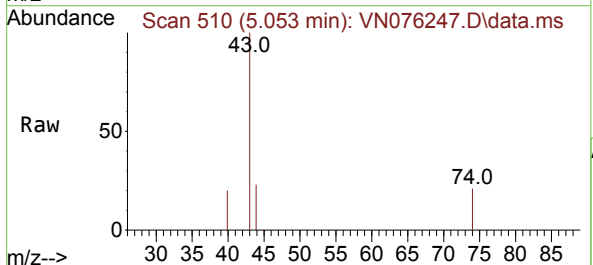
Instrument :
MSVOA_N
ClientSampleId :
WC-2

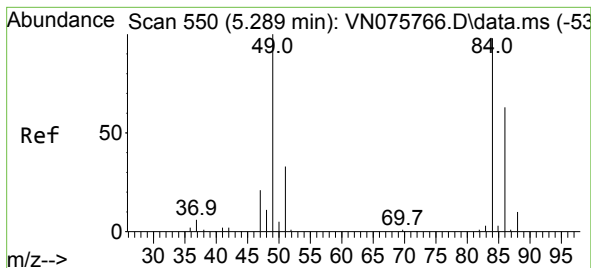
Tgt Ion: 43 Resp: 42852
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0



#18
Methyl Acetate
Concen: 0.936 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.018 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion: 43 Resp: 3645
Ion Ratio Lower Upper
43 100
74 19.6 23.6 35.4#





#20

Methylene Chloride

Concen: 2.998 ug/l

RT: 5.295 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

WC-2

Tgt Ion: 84 Resp: 12689

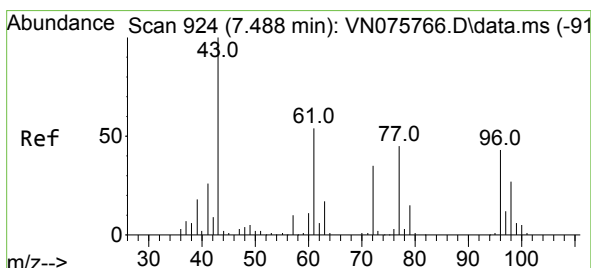
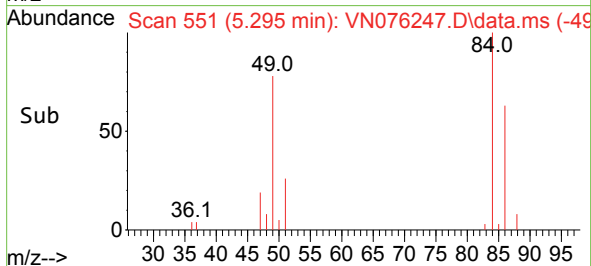
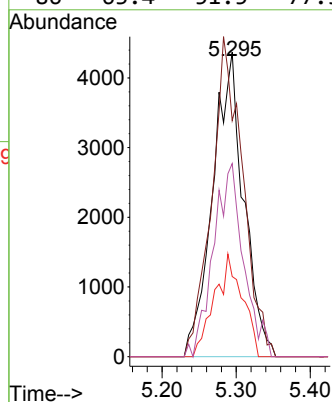
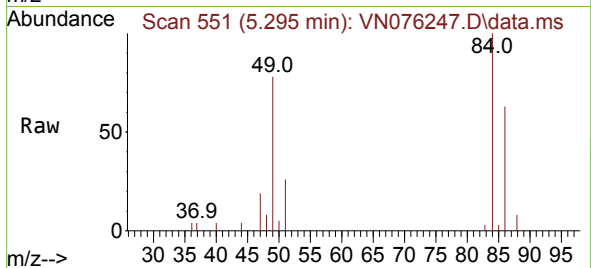
Ion Ratio Lower Upper

84 100

49 77.6 81.8 122.6#

51 26.3 26.7 40.1#

86 63.4 51.5 77.3



#25

2-Butanone

Concen: 3.456 ug/l

RT: 7.506 min Scan# 927

Delta R.T. 0.018 min

Lab File: VN076247.D

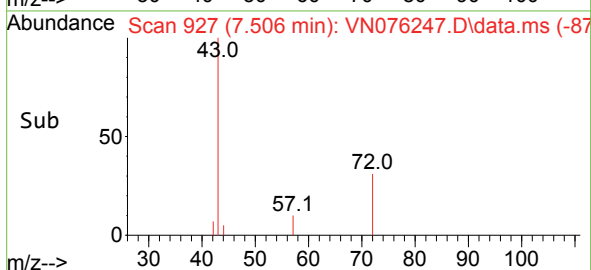
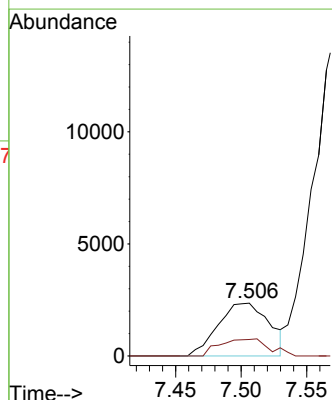
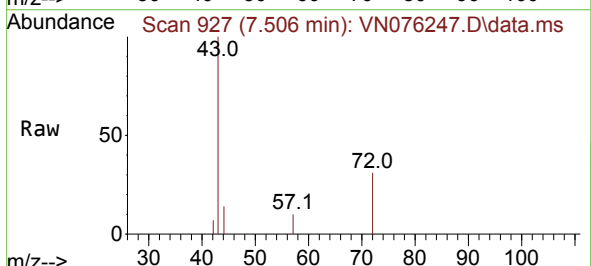
Acq: 13 Jan 2023 14:39

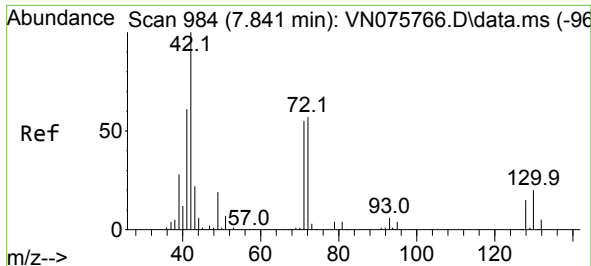
Tgt Ion: 43 Resp: 6375

Ion Ratio Lower Upper

43 100

72 31.4 28.0 42.0





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 7.865 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

WC-2

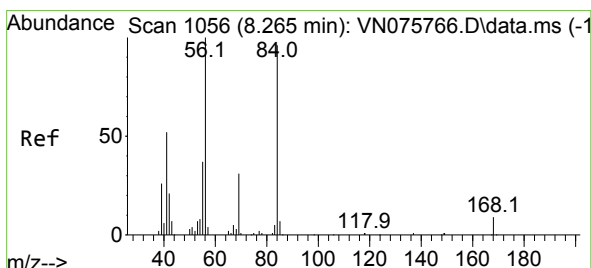
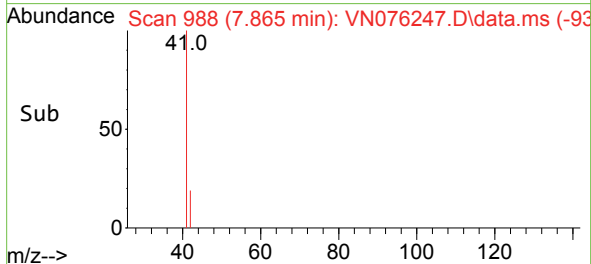
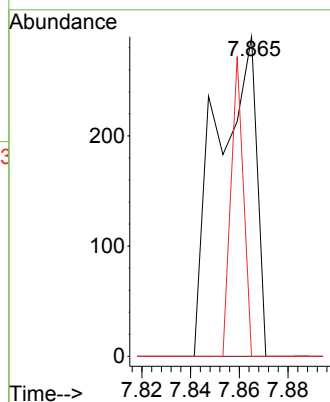
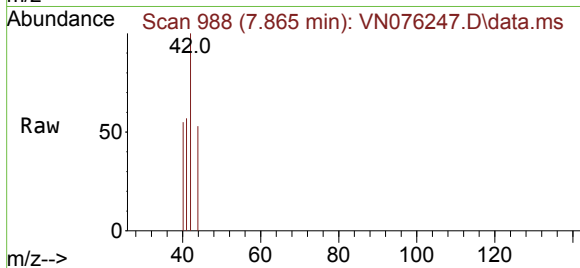
Tgt Ion: 42 Resp: 325

Ion Ratio Lower Upper

42 100

72 0.0 44.5 66.7#

71 29.5 41.0 61.6#



#31

Cyclohexane

Concen: 1.364 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

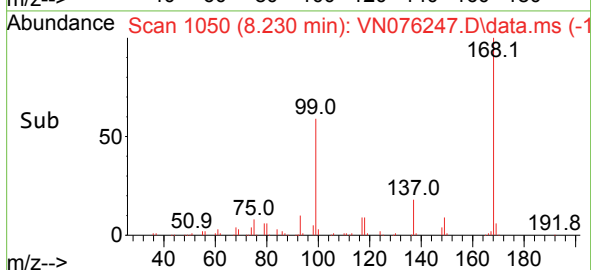
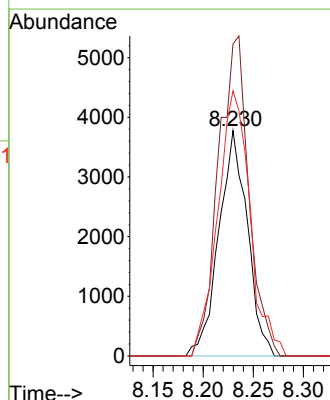
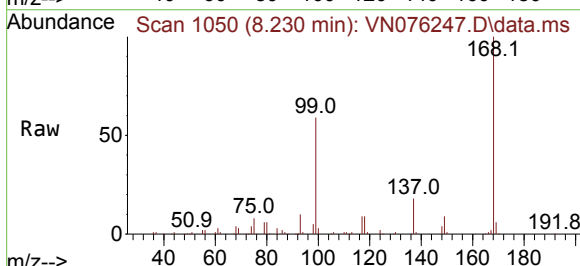
Tgt Ion: 56 Resp: 7465

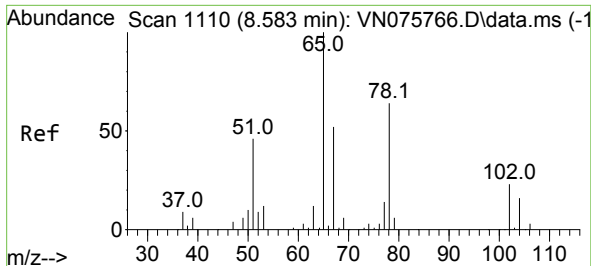
Ion Ratio Lower Upper

56 100

69 138.6 24.7 37.1#

84 117.7 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 50.285 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

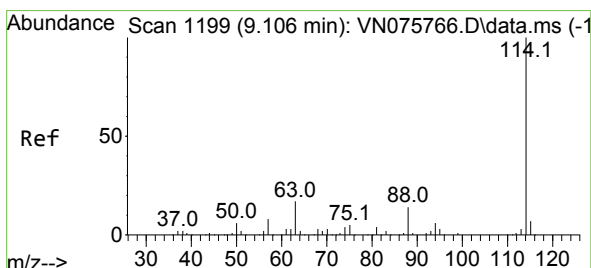
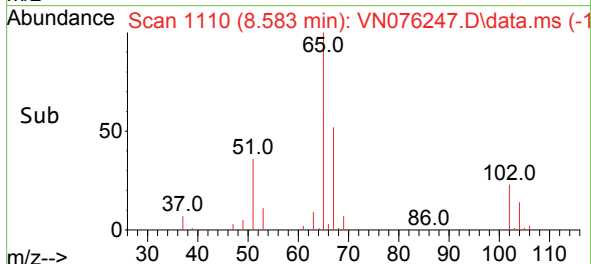
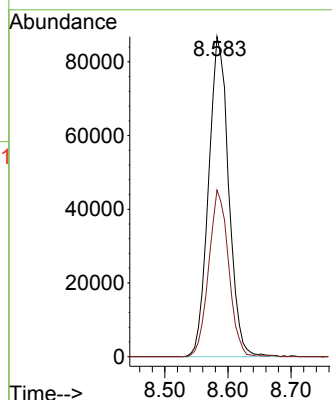
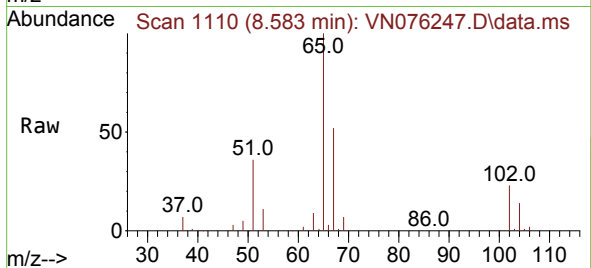
WC-2

Tgt Ion: 65 Resp: 192191

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

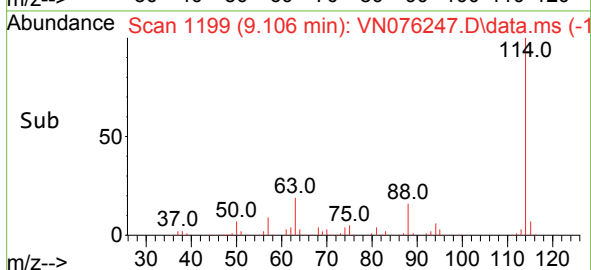
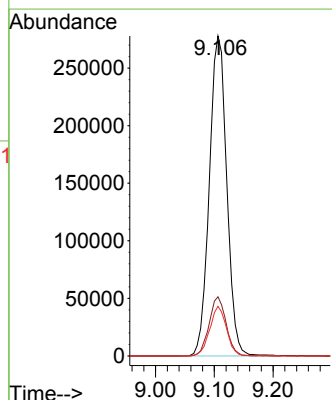
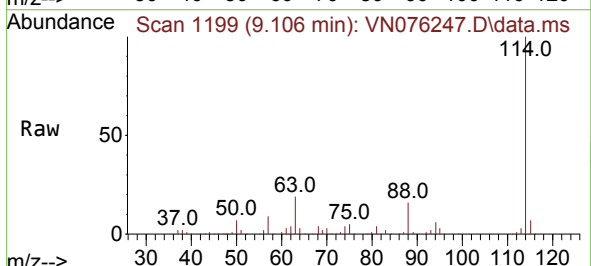
Tgt Ion: 114 Resp: 572909

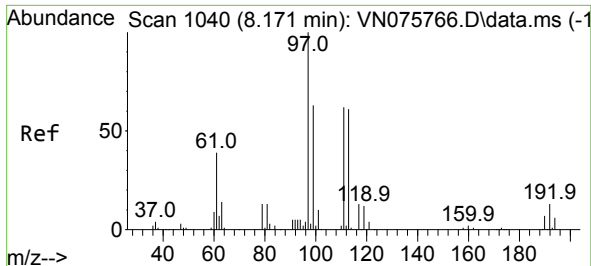
Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.4

88 15.5 0.0 28.8

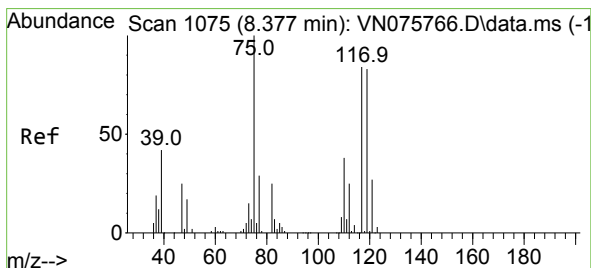
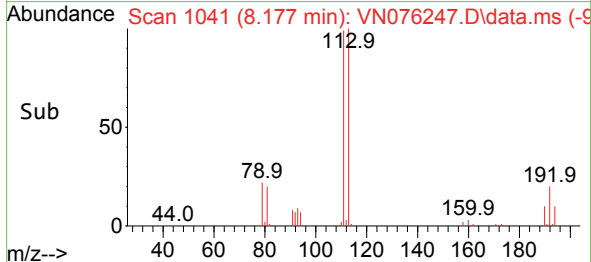
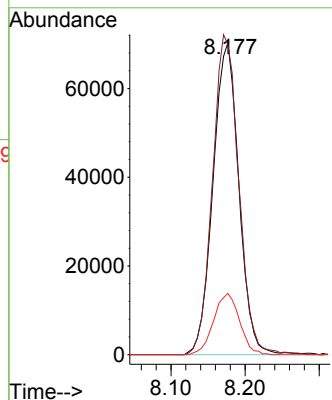
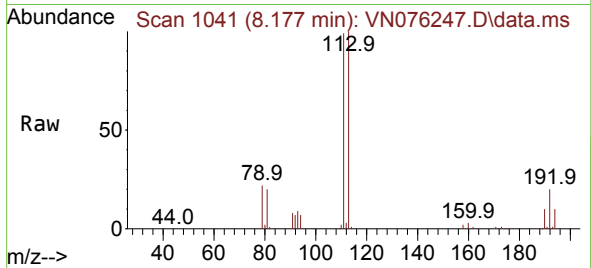




#35
Dibromofluoromethane
Concen: 47.876 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

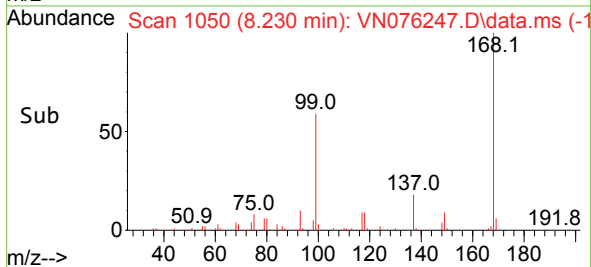
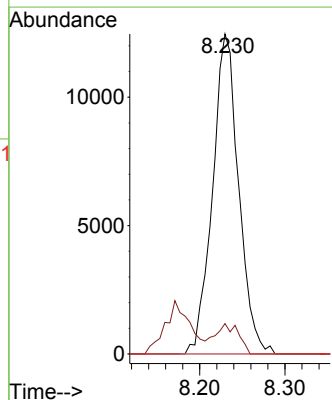
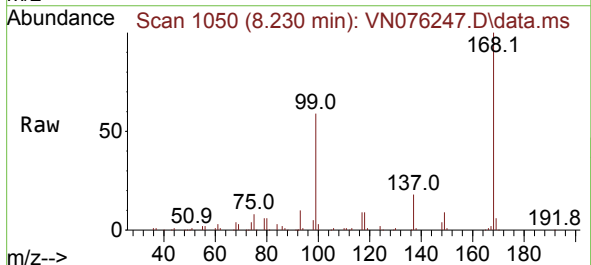
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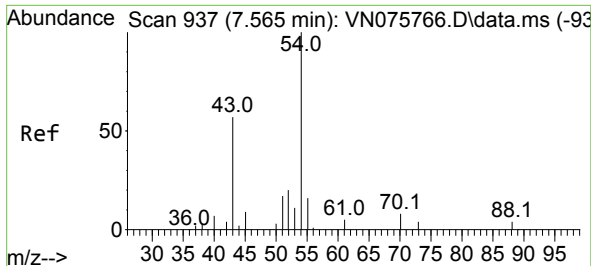
Tgt Ion:113 Resp: 169862
Ion Ratio Lower Upper
113 100
111 104.2 83.4 125.2
192 19.7 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.625 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion: 75 Resp: 26509
Ion Ratio Lower Upper
75 100
110 8.6 18.8 56.4#
77 0.0 24.1 36.1#

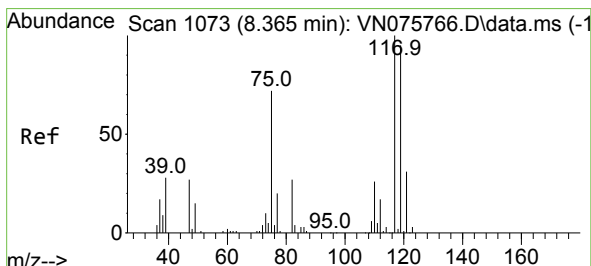
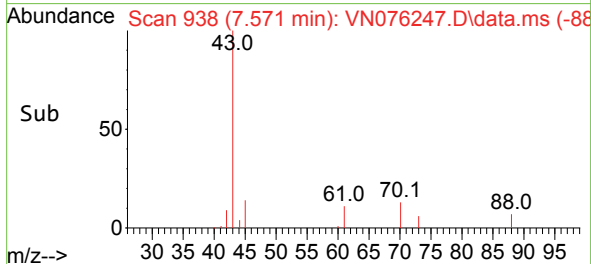
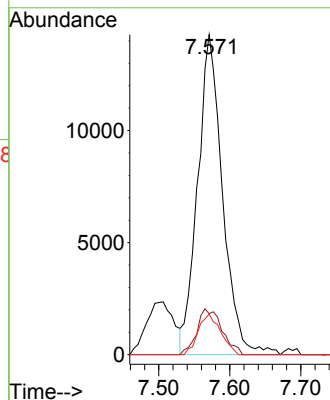
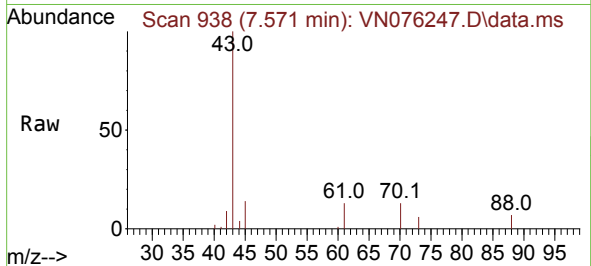




#37
Ethyl Acetate
Concen: 9.212 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

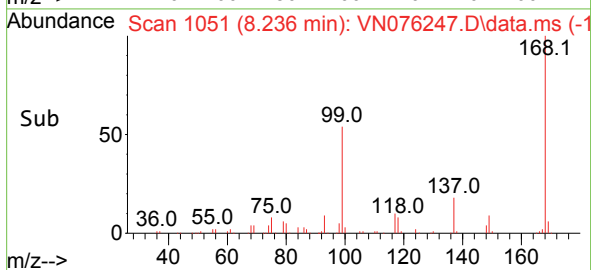
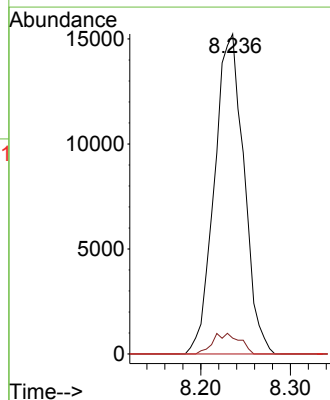
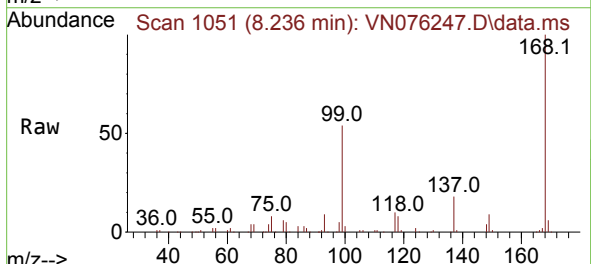
Instrument :
MSVOA_N
ClientSampleId :
WC-2

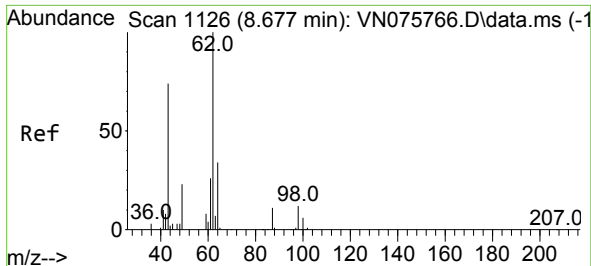
Tgt Ion:	43	Resp:	34875
Ion	Ratio	Lower	Upper
43	100		
61	14.5	13.0	19.4
70	11.4	9.4	14.0



#38
Carbon Tetrachloride
Concen: 6.589 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion:	117	Resp:	34755
Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.1	114.1#
121	0.0	24.5	36.7#





#42

1,2-Dichloroethane

Concen: 0.312 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

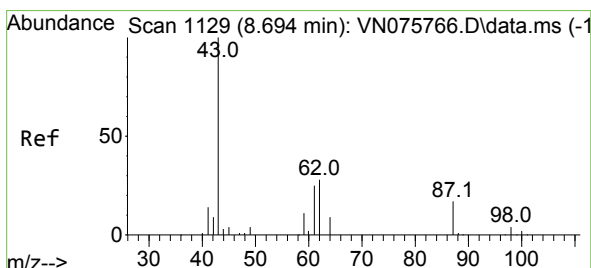
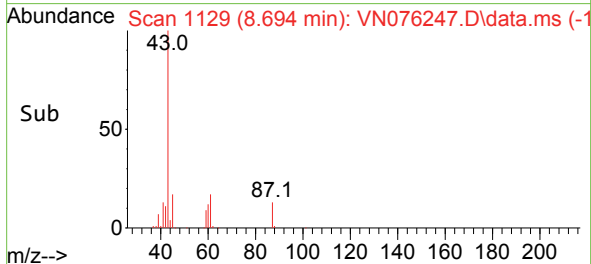
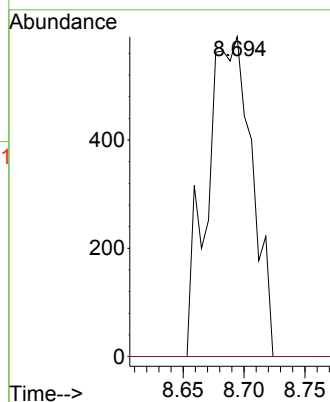
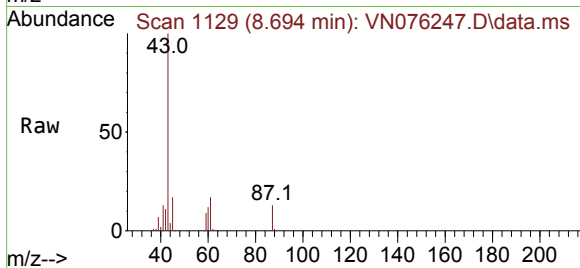
WC-2

Tgt Ion: 62 Resp: 1509

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 46.638 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

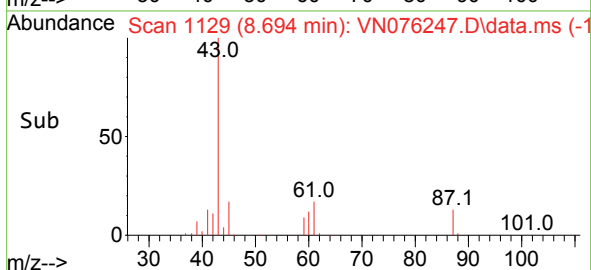
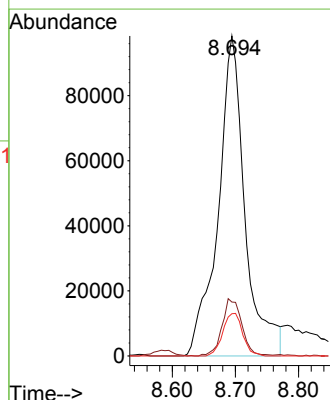
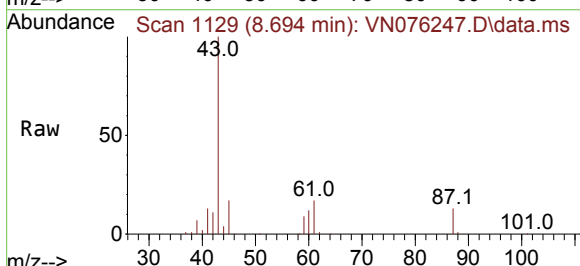
Tgt Ion: 43 Resp: 291250

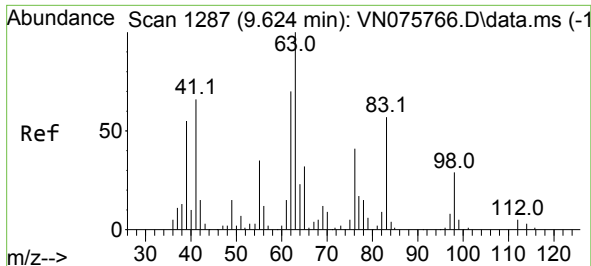
Ion Ratio Lower Upper

43 100

61 13.2 24.2 36.4#

87 9.8 13.3 19.9#





#45

1,2-Dichloropropane

Concen: 0.580 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

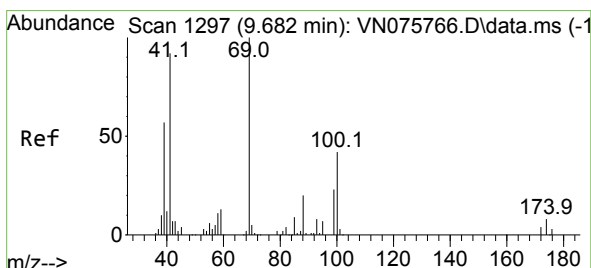
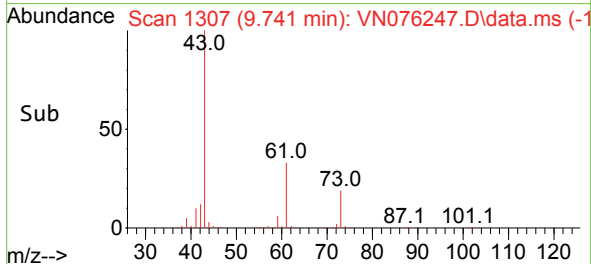
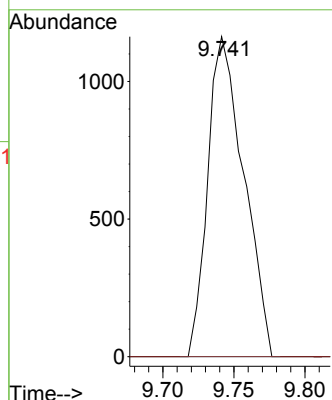
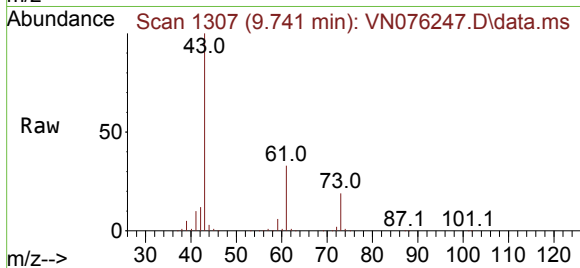
WC-2

Tgt Ion: 63 Resp: 2054

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 1.757 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.012 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

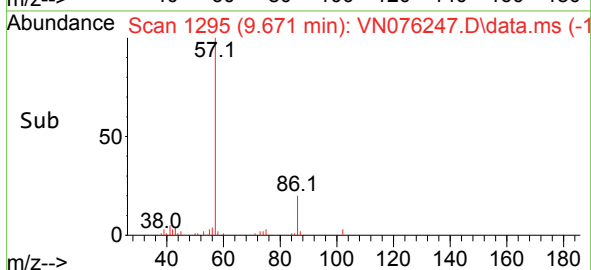
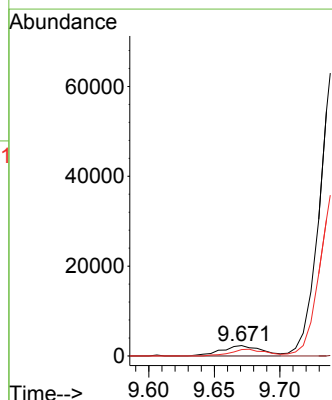
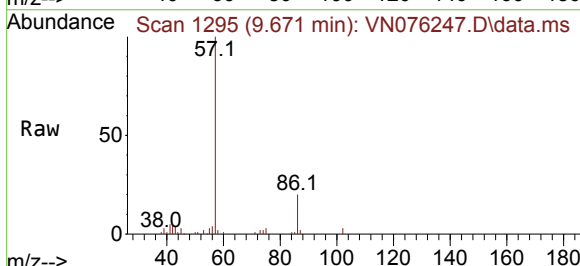
Tgt Ion: 41 Resp: 4943

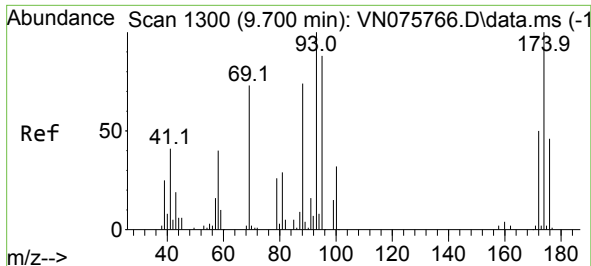
Ion Ratio Lower Upper

41 100

69 0.0 81.9 122.9#

39 55.5 51.6 77.4





#49

1,4-Dioxane

Concen: 1.851 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

WC-2

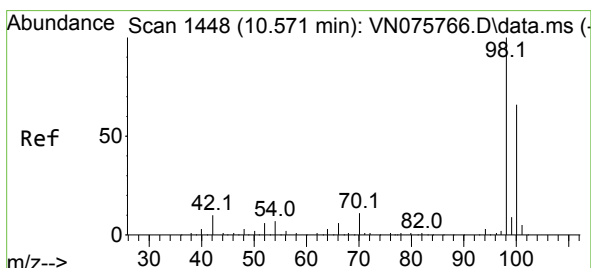
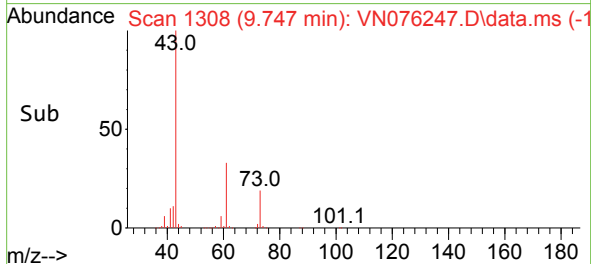
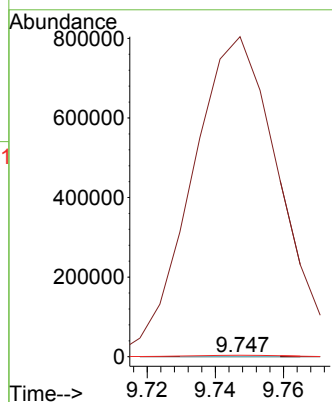
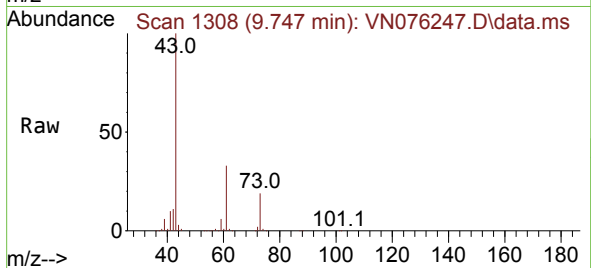
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 1139691.4 17.1 25.7#

58 5627.3 47.8 71.8#



#50

Toluene-d8

Concen: 50.983 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN076247.D

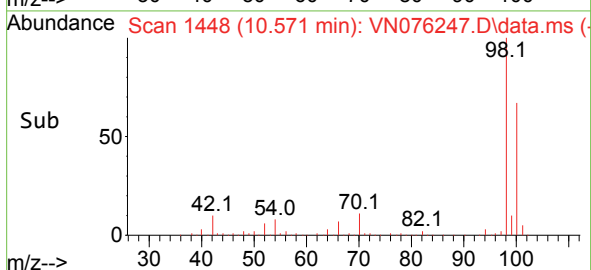
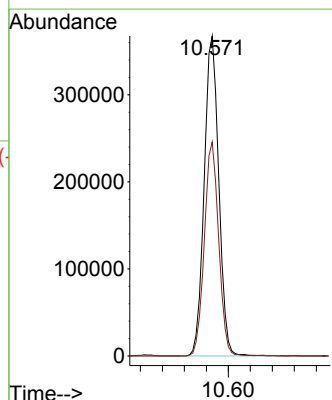
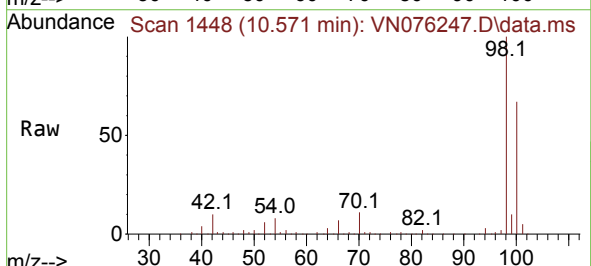
Acq: 13 Jan 2023 14:39

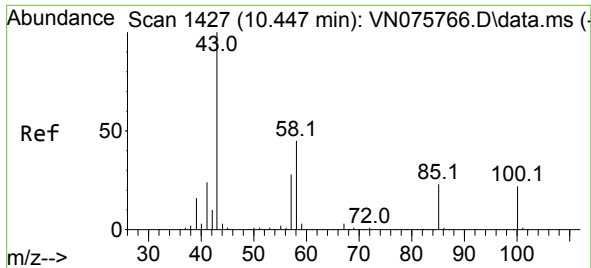
Tgt Ion: 98 Resp: 676307

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1

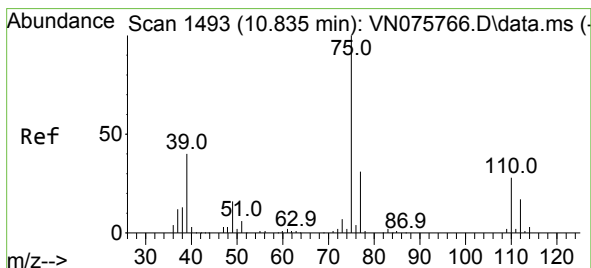
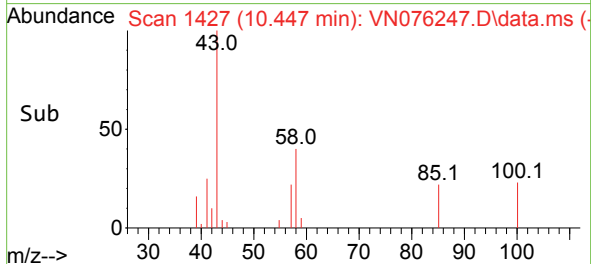
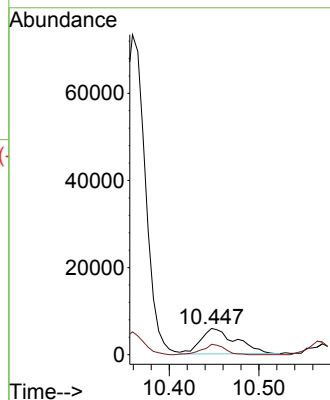
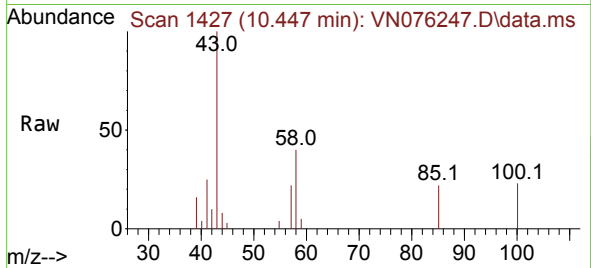




#51
4-Methyl-2-Pentanone
Concen: 4.226 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

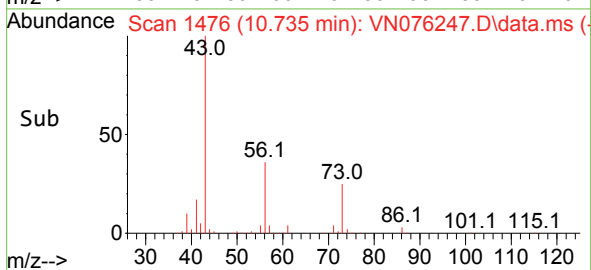
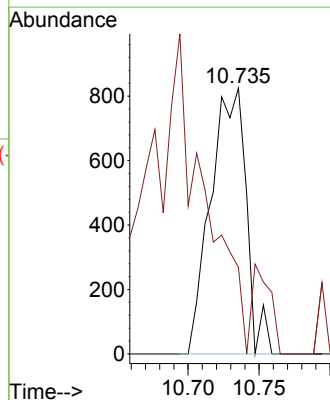
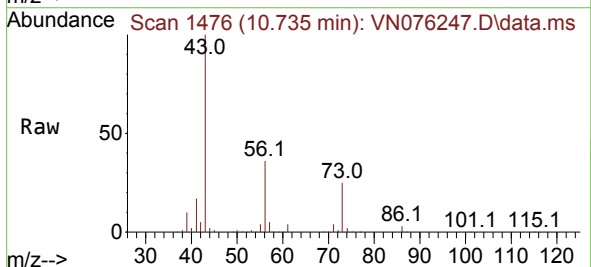
Instrument :
MSVOA_N
ClientSampleId :
WC-2

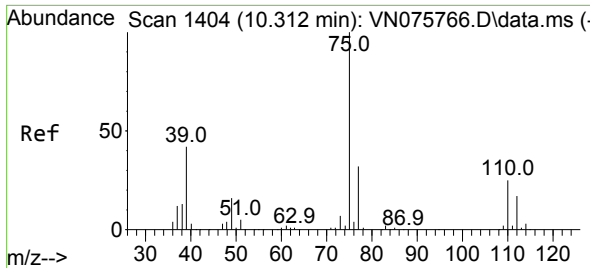
Tgt Ion: 43 Resp: 15959
Ion Ratio Lower Upper
43 100
58 26.0 35.5 53.3#



#53
t-1,3-Dichloropropene
Concen: 0.285 ug/l
RT: 10.735 min Scan# 1476
Delta R.T. -0.100 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion: 75 Resp: 1437
Ion Ratio Lower Upper
75 100
77 32.6 24.9 37.3

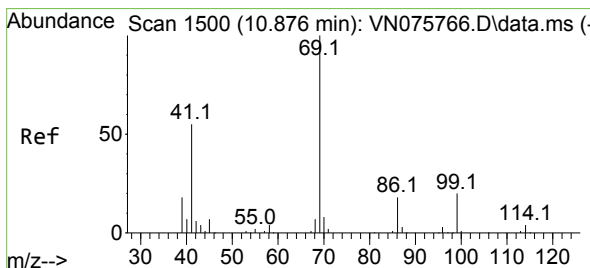
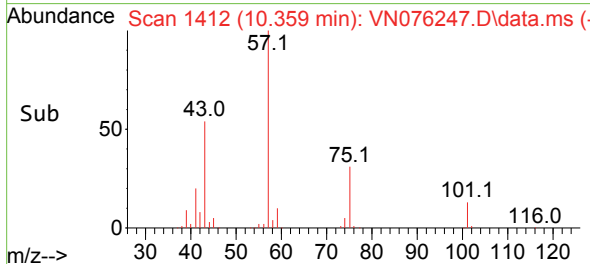
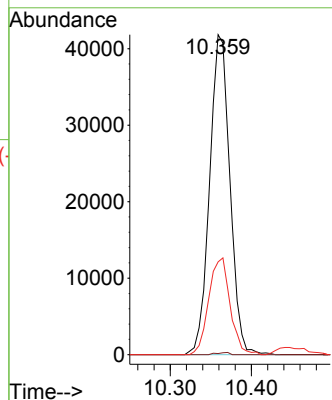
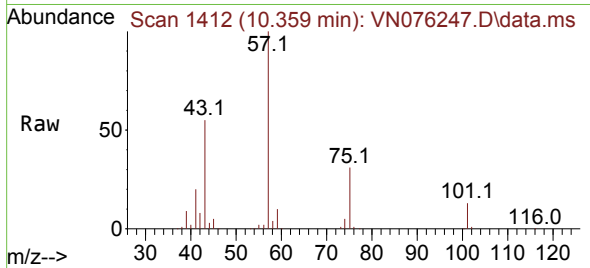




#54
 cis-1,3-Dichloropropene
 Concen: 13.131 ug/l
 RT: 10.359 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN076247.D
 Acq: 13 Jan 2023 14:39

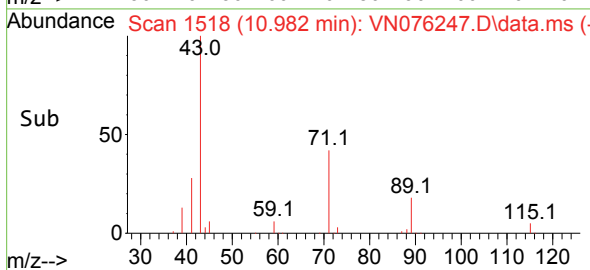
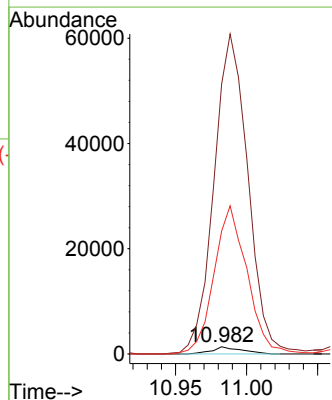
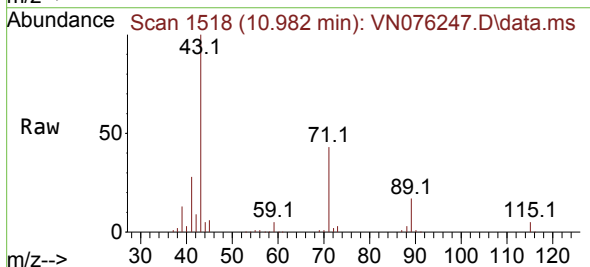
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-2

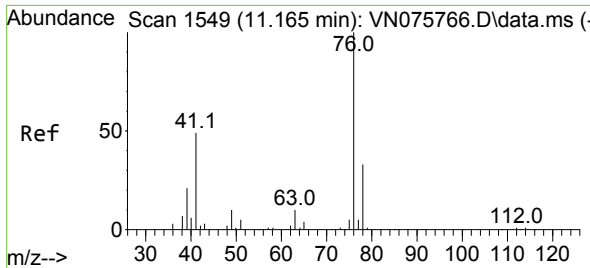
Tgt Ion: 75 Resp: 72637
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.8#
 39 29.0 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.401 ug/l
 RT: 10.982 min Scan# 1518
 Delta R.T. 0.106 min
 Lab File: VN076247.D
 Acq: 13 Jan 2023 14:39

Tgt Ion: 69 Resp: 1982
 Ion Ratio Lower Upper
 69 100
 41 5111.1 44.2 66.4#
 39 2303.3 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.411 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

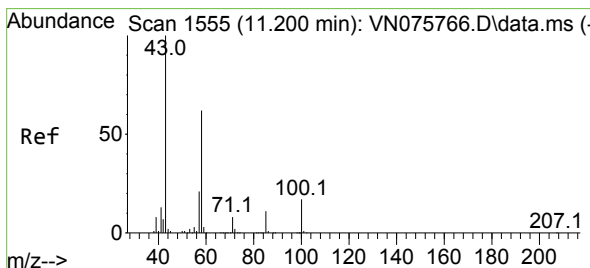
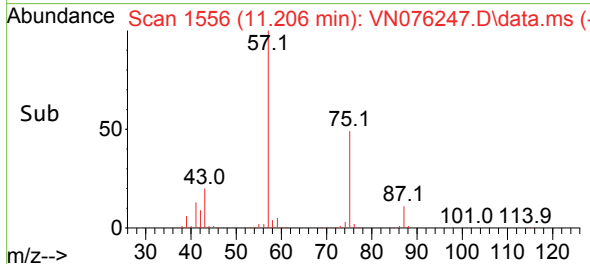
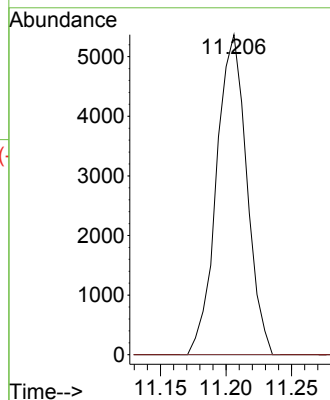
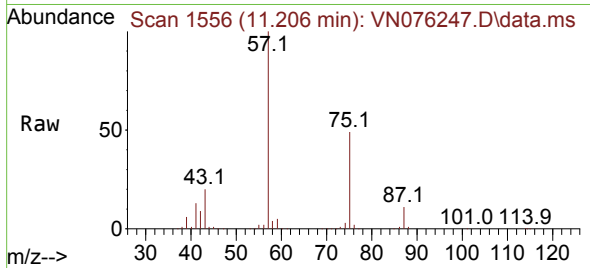
WC-2

Tgt Ion: 76 Resp: 8604

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 51.827 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN076247.D

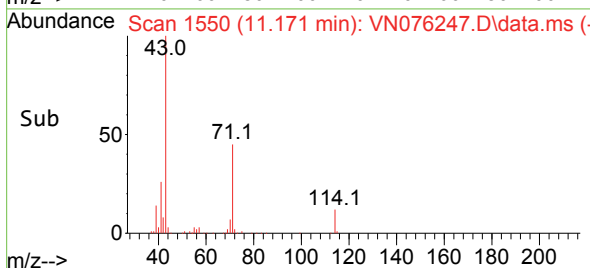
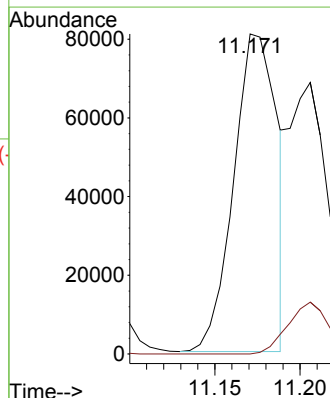
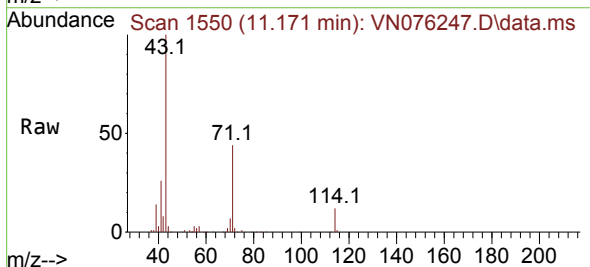
Acq: 13 Jan 2023 14:39

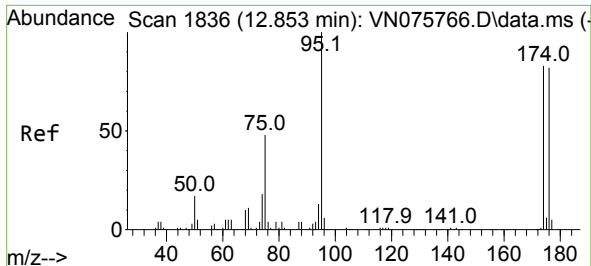
Tgt Ion: 43 Resp: 142743

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

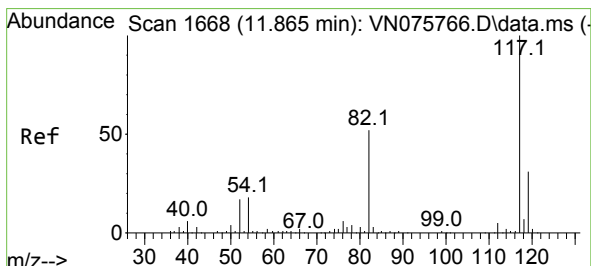
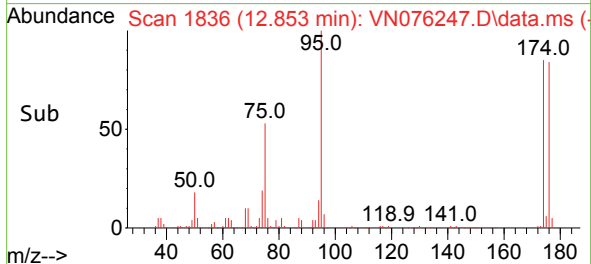
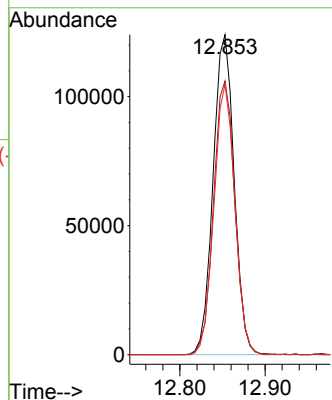
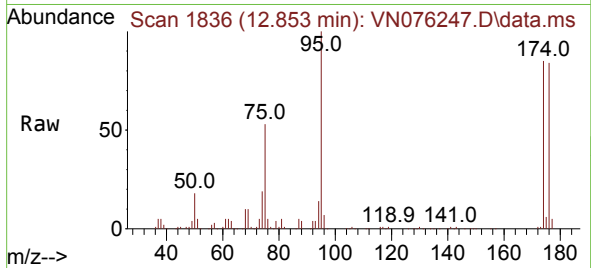




#62
4-Bromofluorobenzene
Concen: 48.402 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

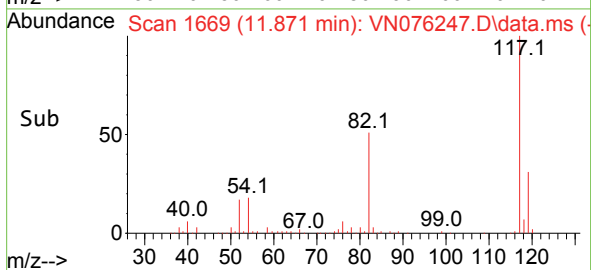
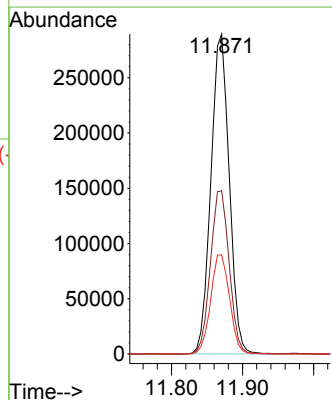
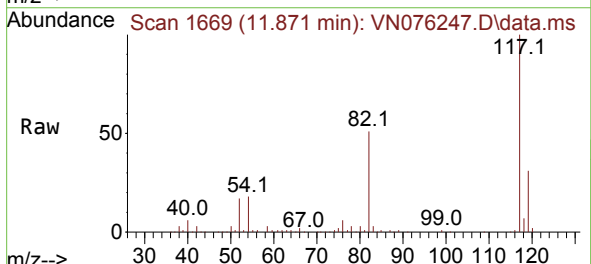
Instrument :
MSVOA_N
ClientSampleId :
WC-2

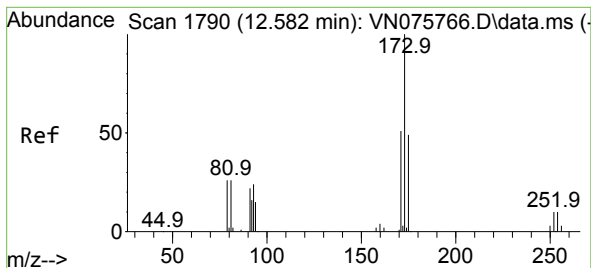
Tgt Ion: 95 Resp: 212661
Ion Ratio Lower Upper
95 100
174 86.5 0.0 171.6
176 83.9 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion: 117 Resp: 519263
Ion Ratio Lower Upper
117 100
82 51.0 41.3 61.9
119 30.9 24.6 37.0





#71

Bromoform

Concen: 0.543 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

Instrument :

MSVOA_N

ClientSampleId :

WC-2

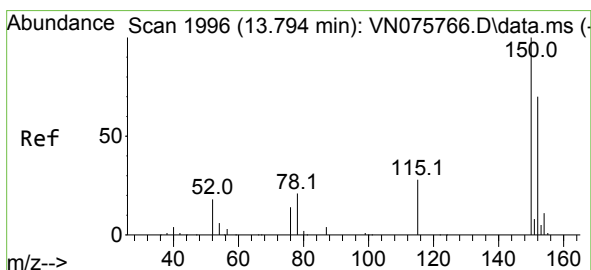
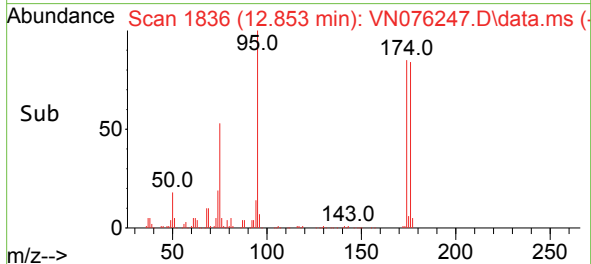
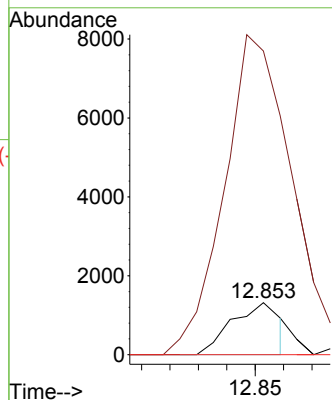
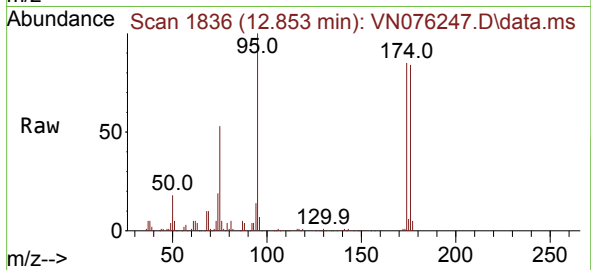
Tgt Ion:173 Resp: 1561

Ion Ratio Lower Upper

173 100

175 702.3 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN076247.D

Acq: 13 Jan 2023 14:39

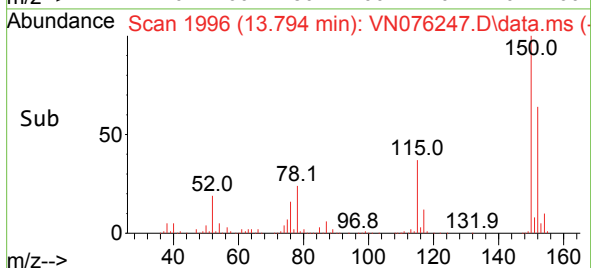
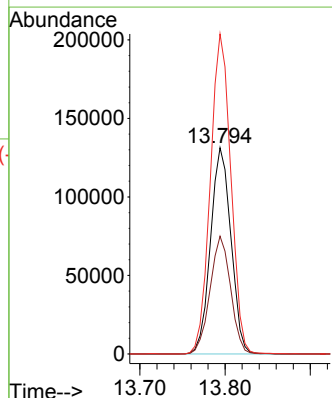
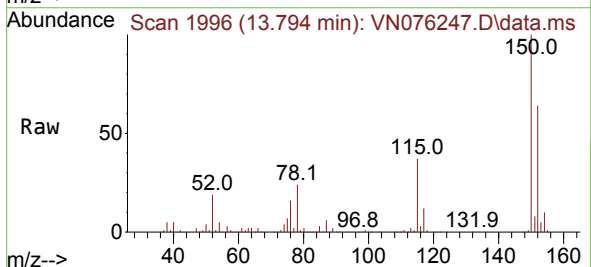
Tgt Ion:152 Resp: 218729

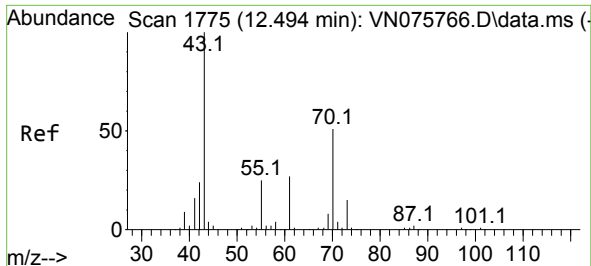
Ion Ratio Lower Upper

152 100

115 57.5 29.1 87.4

150 155.8 0.0 347.0

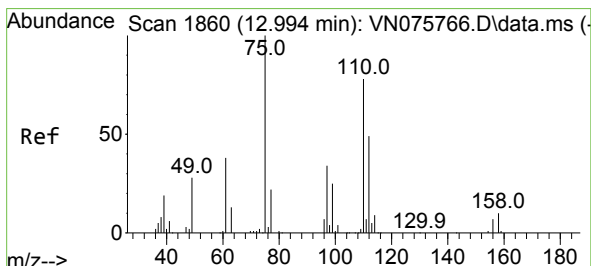
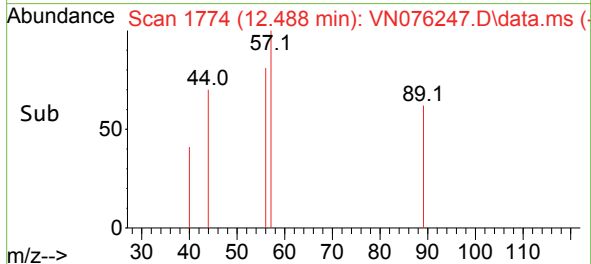
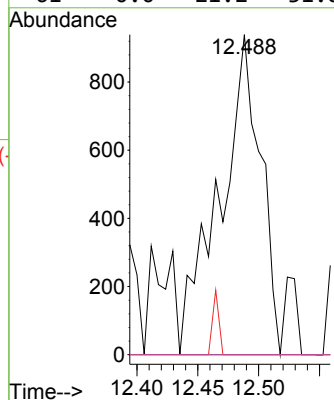
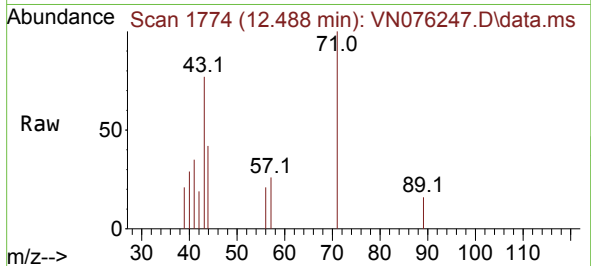




#74
N-amy1 acetate
Concen: 0.473 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

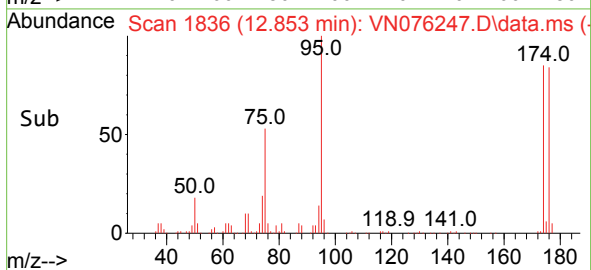
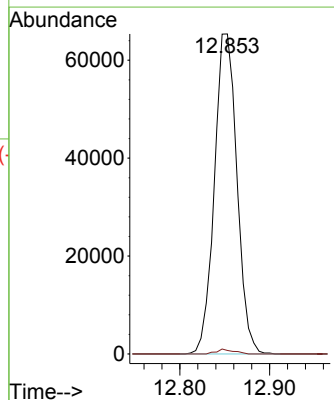
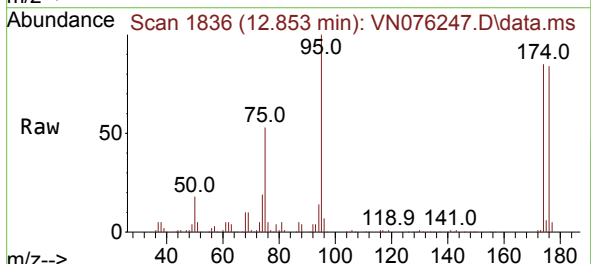
Instrument :
MSVOA_N
ClientSampleId :
WC-2

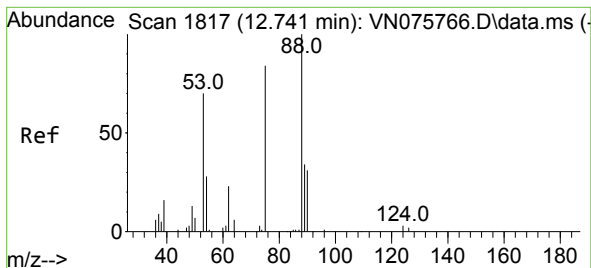
Tgt Ion: 43	Resp: 2192
Ion Ratio	Lower Upper
43 100	
70 0.0	41.4 62.0#
55 0.0	21.3 31.9#
61 0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 25.920 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion: 75	Resp: 114282
Ion Ratio	Lower Upper
75 100	
77 1.1	82.6 247.8#

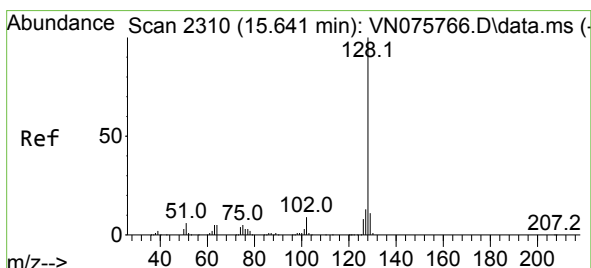
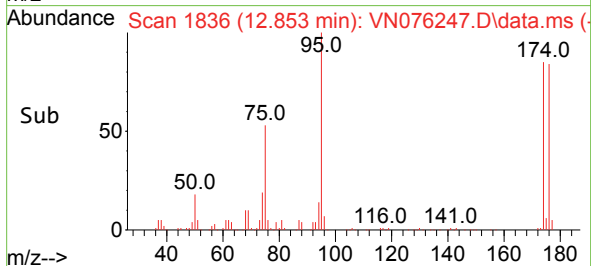
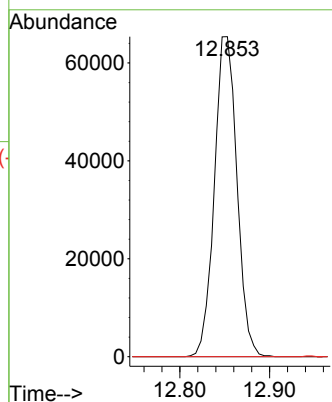
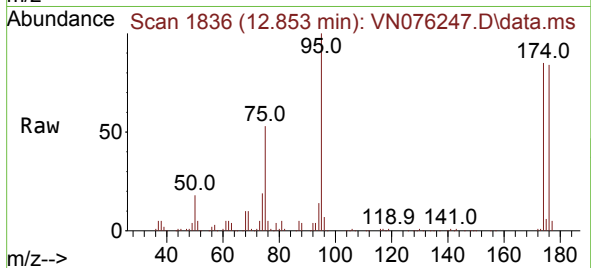




#81
trans-1,4-Dichloro-2-butene
Concen: 93.299 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Instrument :
MSVOA_N
ClientSampleId :
WC-2

Tgt Ion: 75 Resp: 114282
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 2.270 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076247.D
Acq: 13 Jan 2023 14:39

Tgt Ion:128 Resp: 1146
Ion Ratio Lower Upper
128 100
127 5.0 10.4 15.6#
129 0.0 8.7 13.1#

