

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061923\
 Data File : VN078287.D
 Acq On : 19 Jun 2023 18:38
 Operator : JC\MD
 Sample : 03320-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-19

Quant Time: Jun 20 01:32:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

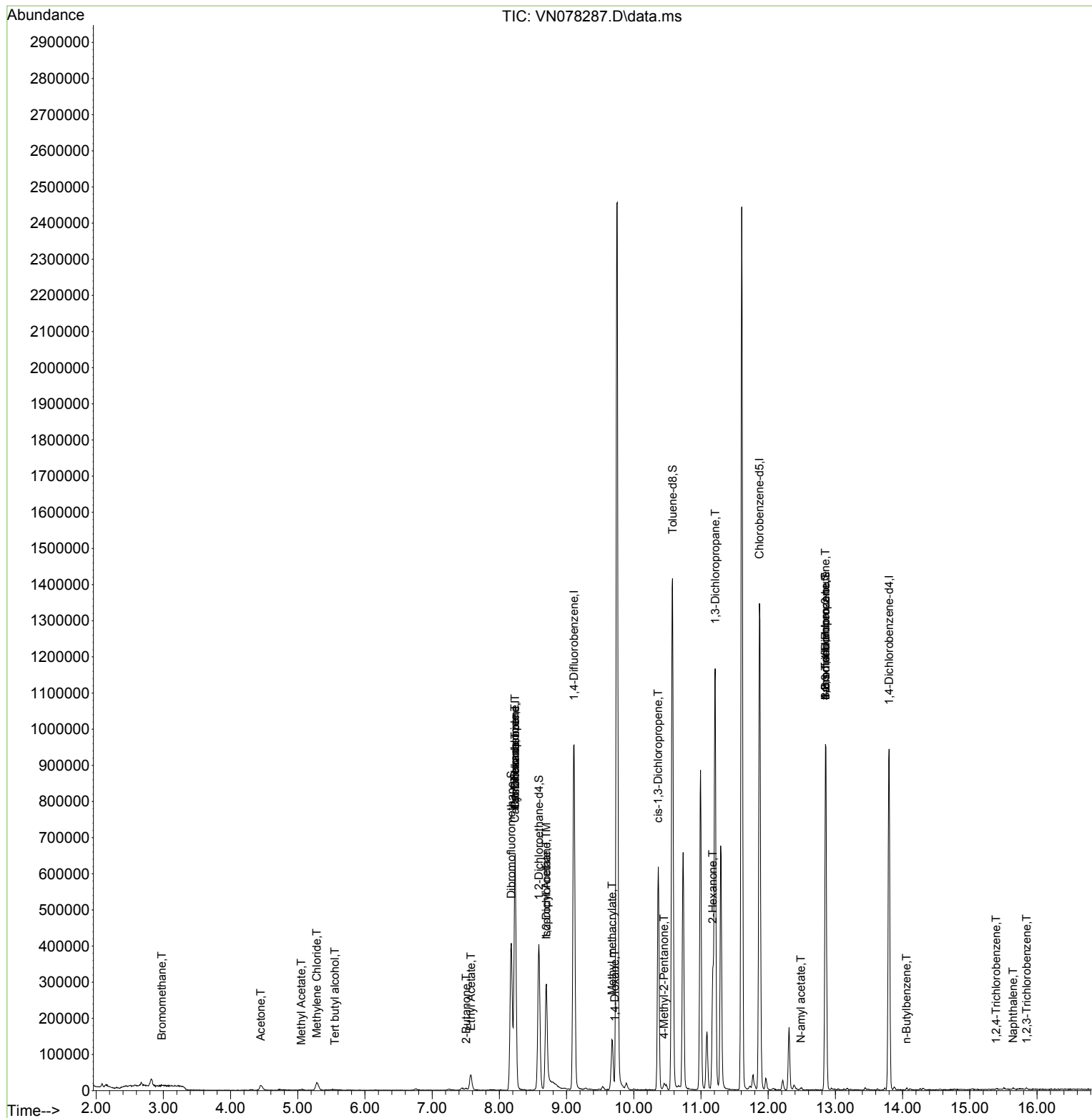
Internal Standards						
1) Pentafluorobenzene	8.235	168	455383	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	863102	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	807469	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	254450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	329874	54.330	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.660%	
35) Dibromofluoromethane	8.177	113	296719	54.371	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.740%	
50) Toluene-d8	10.576	98	1025488	48.744	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.480%	
62) 4-Bromofluorobenzene	12.853	95	341628	52.234	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.460%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1352	Below Cal	#	86
5) Bromomethane	2.977	94	2929	0.575	ug/l #	47
11) Tert butyl alcohol	5.553	59	2063	2.461	ug/l #	72
16) Acetone	4.447	43	27631	15.810	ug/l	95
18) Methyl Acetate	5.053	43	4739	0.589	ug/l #	70
20) Methylene Chloride	5.283	84	16034	2.776	ug/l #	81
25) 2-Butanone	7.506	43	7747	2.883	ug/l #	83
31) Cyclohexane	8.235	56	11857	1.522	ug/l #	44
36) 1,1-Dichloropropene	8.235	75	39097	4.995	ug/l #	49
37) Ethyl Acetate	7.577	43	63843	10.440	ug/l	97
38) Carbon Tetrachloride	8.230	117	49655	6.008	ug/l #	15
42) 1,2-Dichloroethane	8.700	62	2283	0.285	ug/l	80
43) Isopropyl Acetate	8.700	43	346357	29.616	ug/l #	80
48) Methyl methacrylate	9.677	41	8117	1.654	ug/l #	32
49) 1,4-Dioxane	9.718	88	68	0.659	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	12080	1.962	ug/l	90
54) cis-1,3-Dichloropropene	10.365	75	116308	12.700	ug/l #	67
57) 1,3-Dichloropropane	11.212	76	13201	1.401	ug/l #	43
59) 2-Hexanone	11.176	43	253921	59.216	ug/l #	19
71) Bromoform	12.853	173	2079	0.507	ug/l #	1
74) N-amyl acetate	12.488	43	4392	0.554	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.947	83	254	Below Cal	#	76
76) 1,2,3-Trichloropropane	12.853	75	183979	30.585	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	183979	93.967	ug/l #	15
89) n-Butylbenzene	14.059	91	3728	0.263	ug/l	86
93) 1,2,4-Trichlorobenzene	15.394	180	1053	0.320	ug/l	91
94) Hexachlorobutadiene	15.506	225	770	Below Cal	#	45
95) Naphthalene	15.647	128	3987	0.360	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.847	180	927	0.252	ug/l #	62

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

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Quant Time: Jun 20 01:32:23 2023
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Quant Title : SW846 8260
QLast Update : Wed Jun 07 05:05:00 2023
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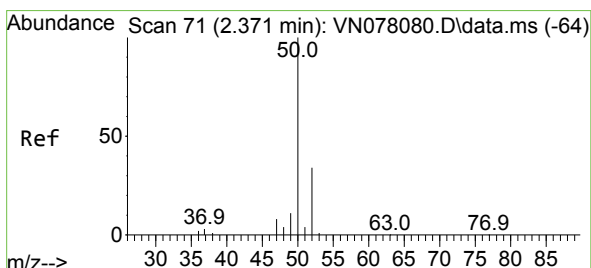
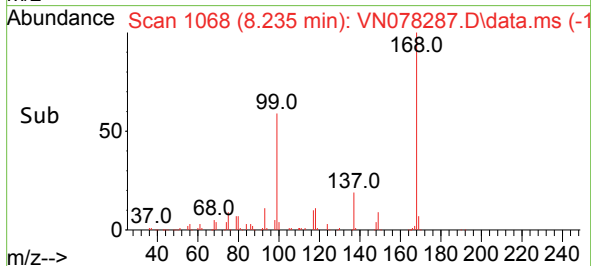
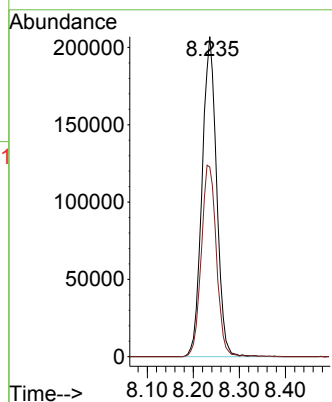
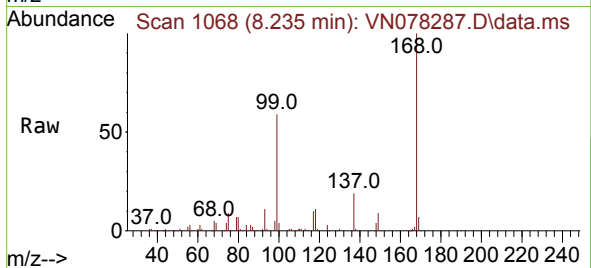




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

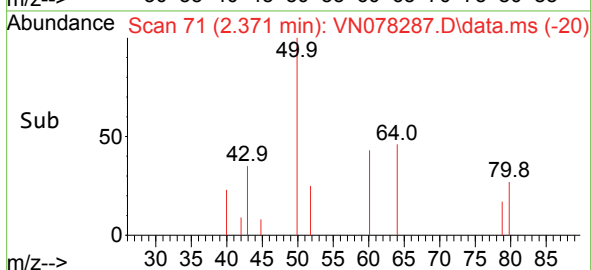
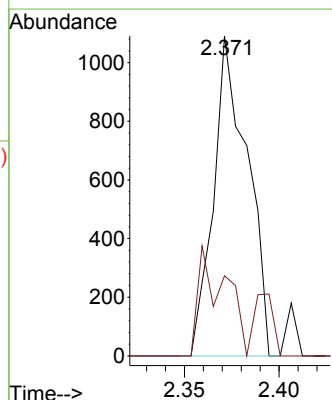
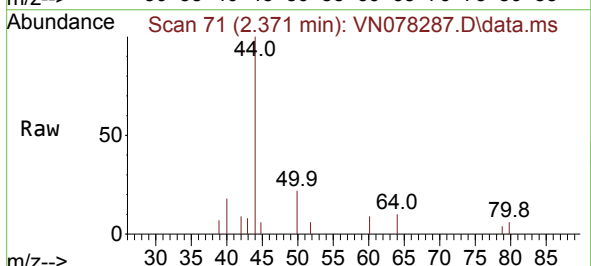
Instrument :
MSVOA_N
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WC-19

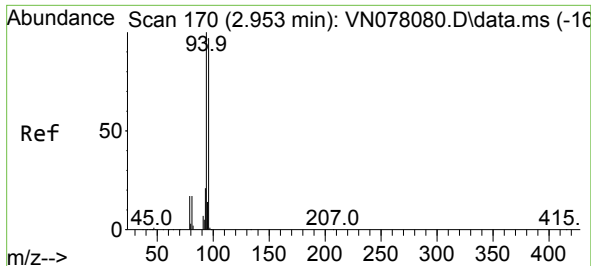
Tgt Ion:168 Resp: 455383
Ion Ratio Lower Upper
168 100
99 59.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 50 Resp: 1352
Ion Ratio Lower Upper
50 100
52 25.0 26.5 39.7#

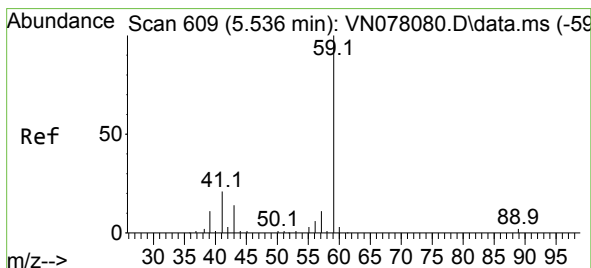
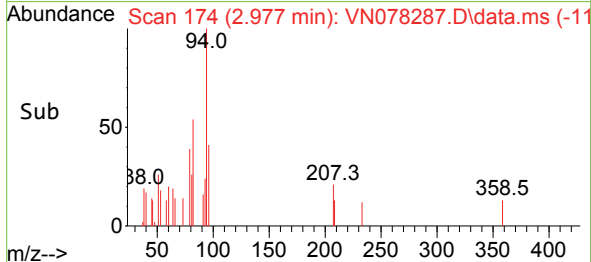
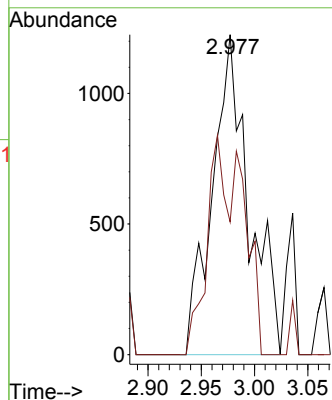
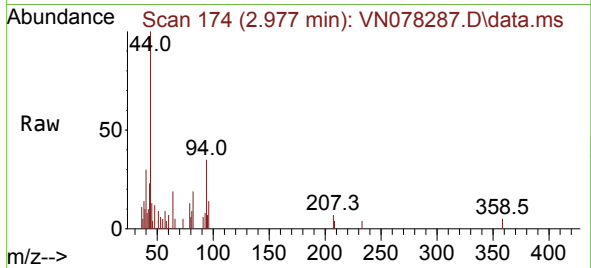




#5
Bromomethane
Concen: 0.575 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

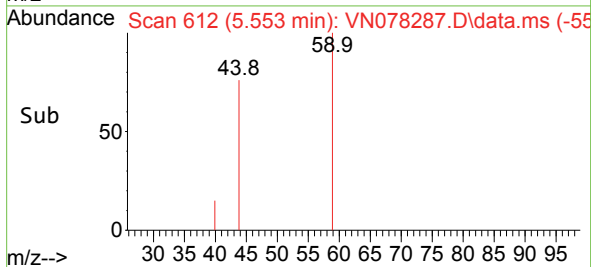
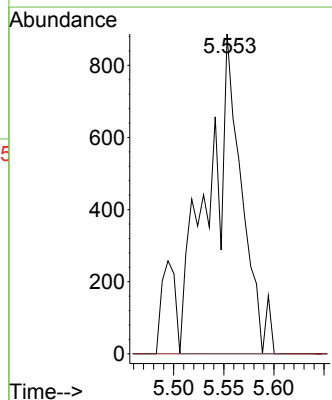
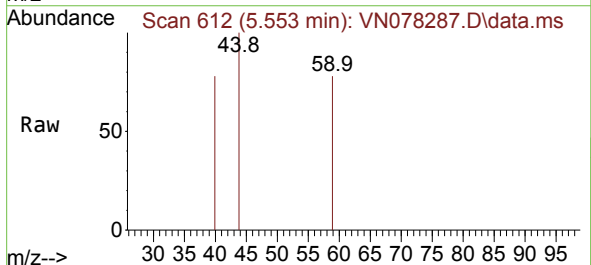
Instrument :
MSVOA_N
ClientSampleId :
WC-19

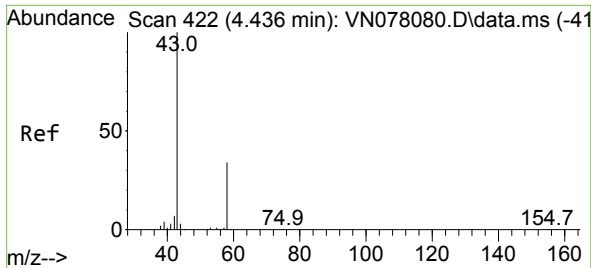
Tgt Ion: 94 Resp: 2929
Ion Ratio Lower Upper
94 100
96 41.5 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.461 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.018 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 59 Resp: 2063
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

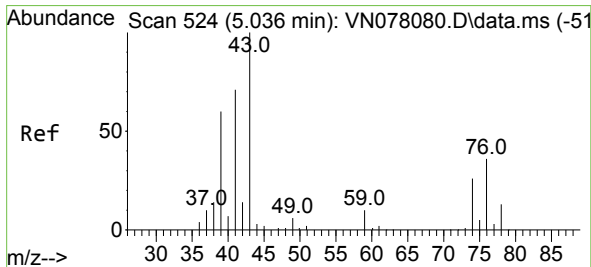
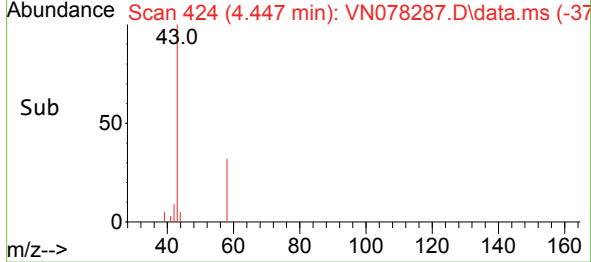
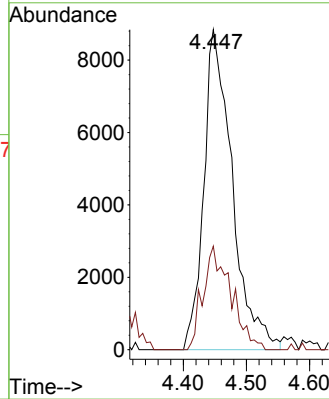
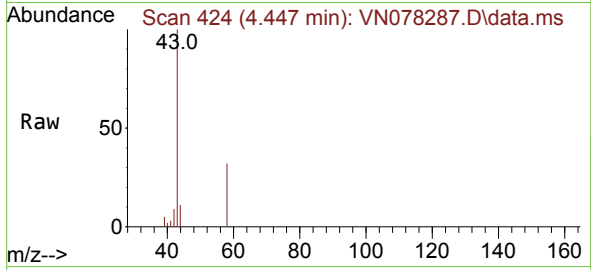




#16
Acetone
Concen: 15.810 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

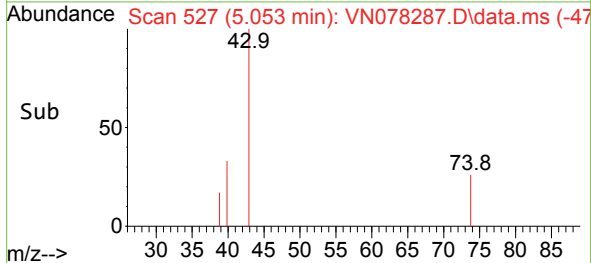
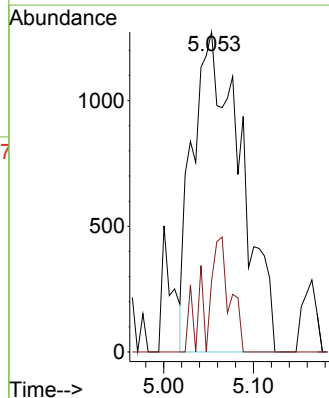
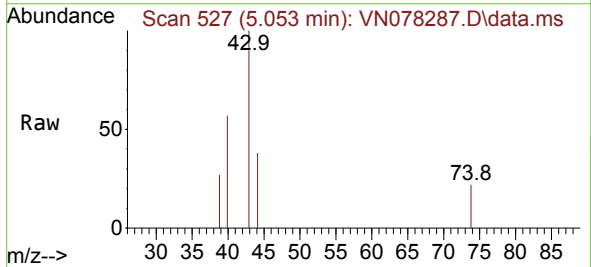
Instrument :
MSVOA_N
ClientSampleId :
WC-19

Tgt Ion: 43 Resp: 27631
Ion Ratio Lower Upper
43 100
58 32.4 28.0 42.0



#18
Methyl Acetate
Concen: 0.589 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.018 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 43 Resp: 4739
Ion Ratio Lower Upper
43 100
74 15.8 26.2 39.4#

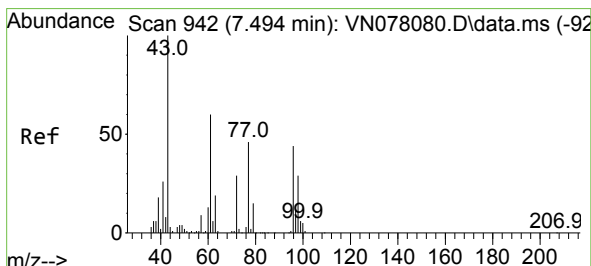
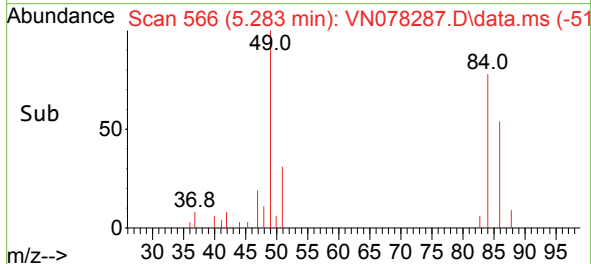
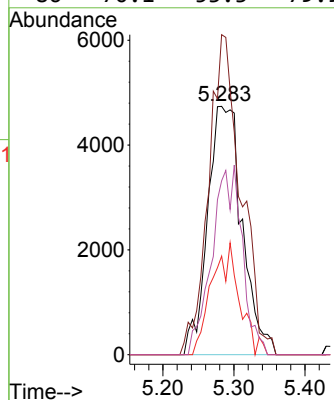
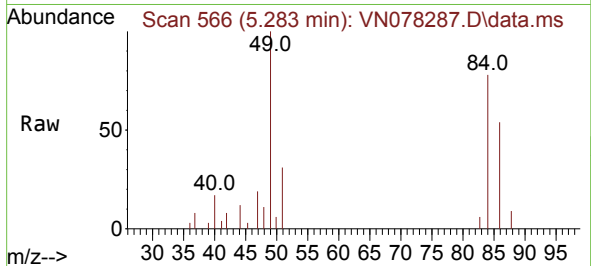




#20
Methylene Chloride
Concen: 2.776 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

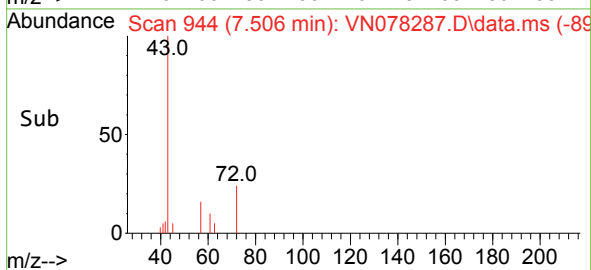
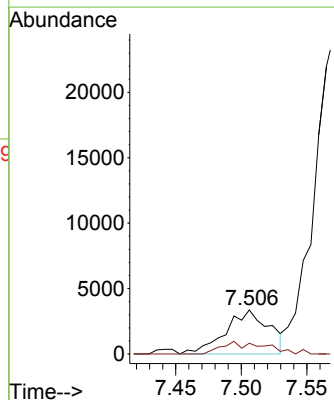
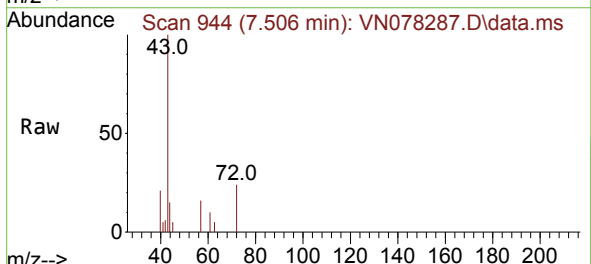
Instrument :
MSVOA_N
ClientSampleId :
WC-19

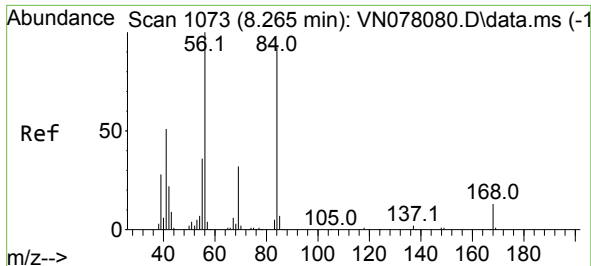
Tgt Ion: 84	Resp: 16034
Ion Ratio	Lower Upper
84 100	
49 128.8	79.7 119.5#
51 39.7	25.2 37.8#
86 70.1	53.3 79.9



#25
2-Butanone
Concen: 2.883 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 43	Resp: 7747		
Ion Ratio	Lower	Upper	
43 100			
72 27.5	30.2	45.2#	

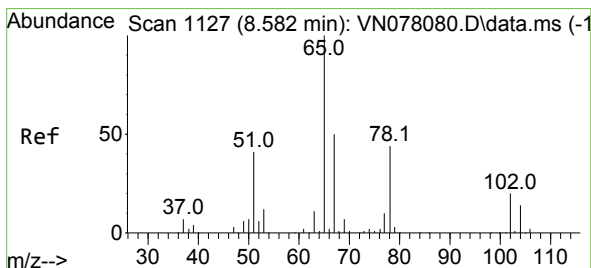
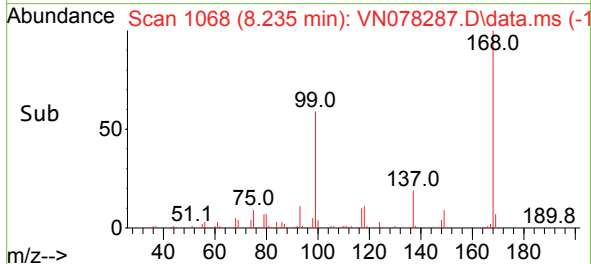
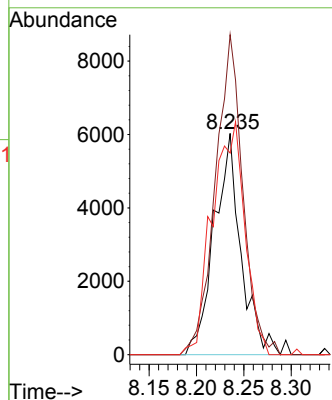
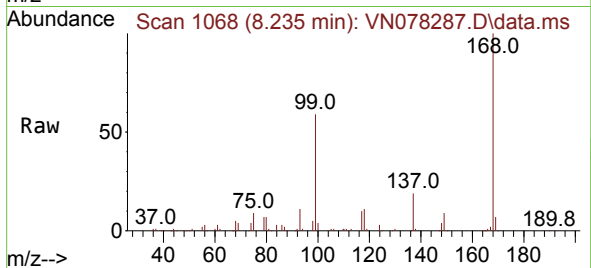




#31
Cyclohexane
Concen: 1.522 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

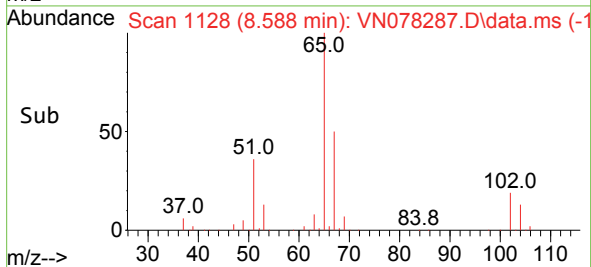
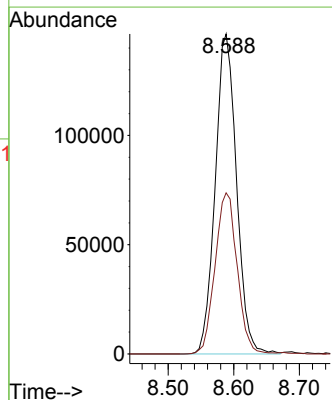
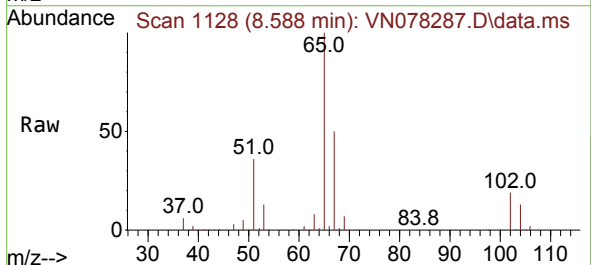
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ClientSampleId :
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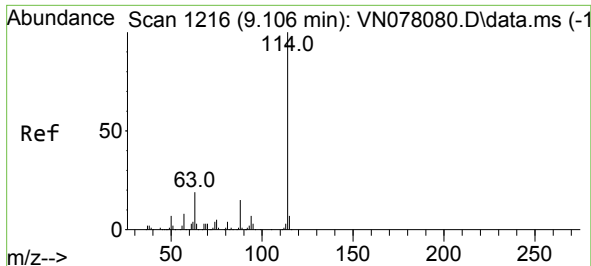
Tgt Ion: 56 Resp: 11857
Ion Ratio Lower Upper
56 100
69 144.7 26.8 40.2#
84 91.2 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 54.330 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 65 Resp: 329874
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WC-19

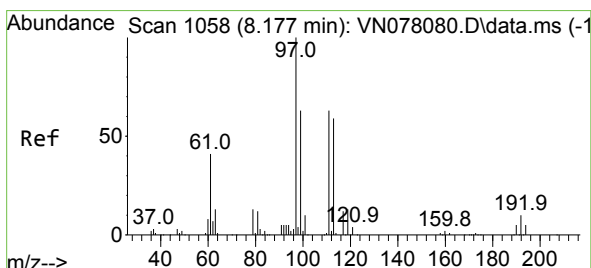
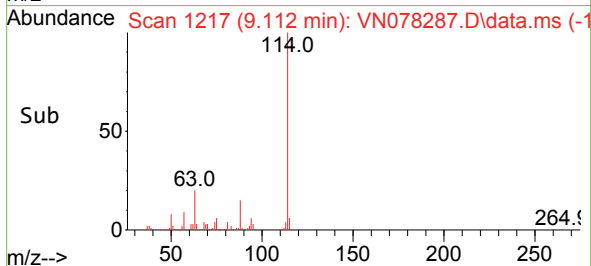
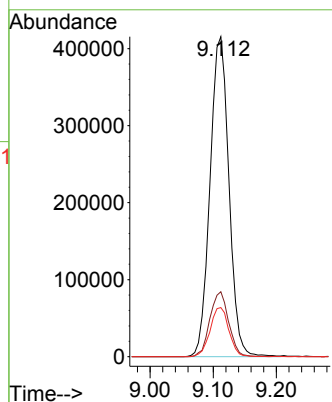
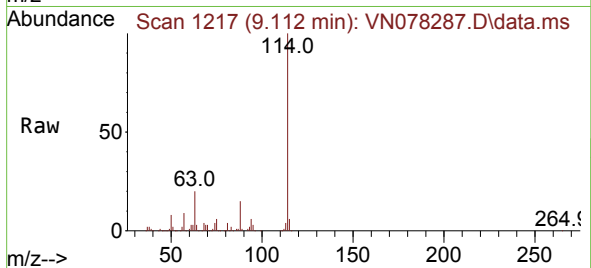
Tgt Ion:114 Resp: 863102

Ion Ratio Lower Upper

114 100

63 20.3 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.371 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

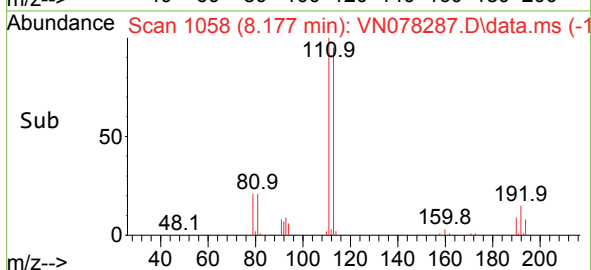
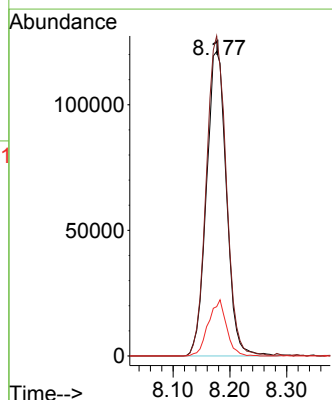
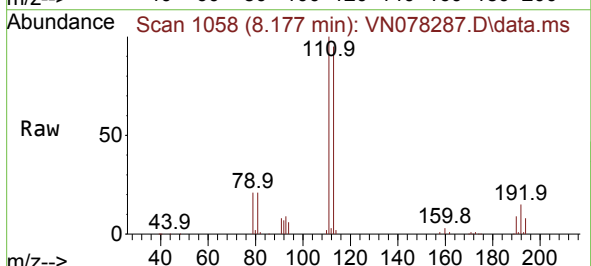
Tgt Ion:113 Resp: 296719

Ion Ratio Lower Upper

113 100

111 104.7 82.6 123.8

192 16.8 12.7 19.1

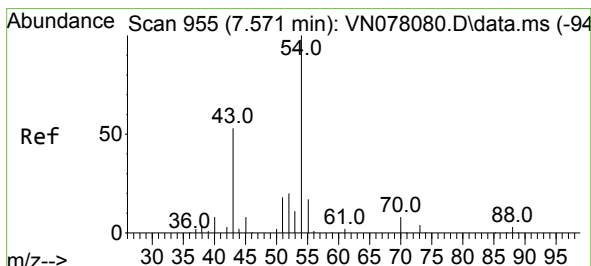
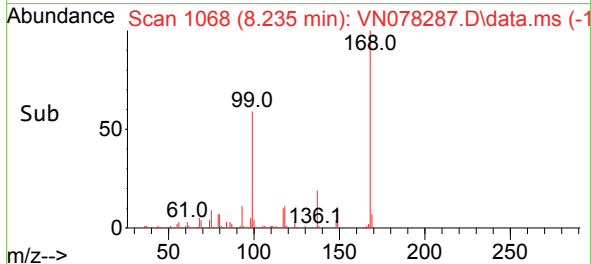
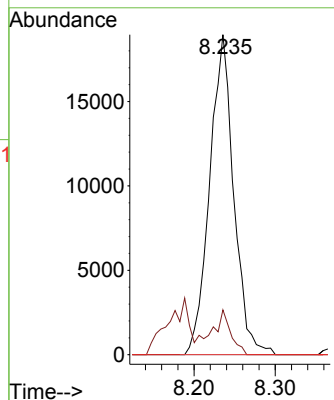
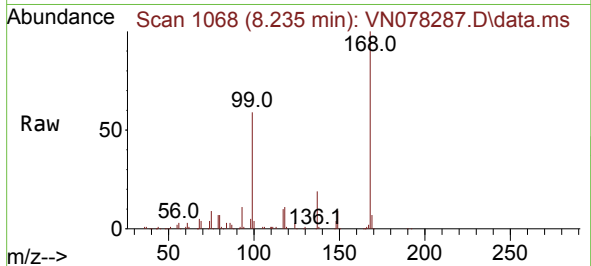




#36
1,1-Dichloropropene
Concen: 4.995 ug/l
RT: 8.235 min Scan# 1092
Delta R.T. -0.141 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

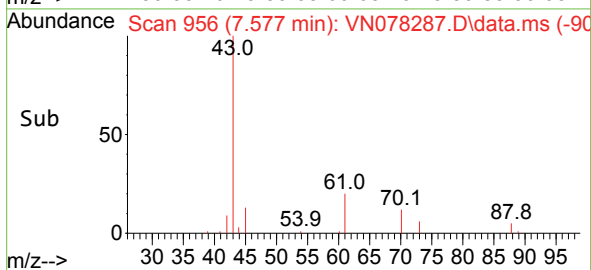
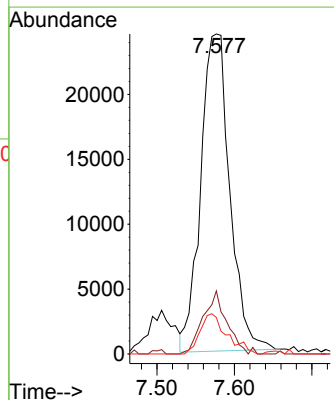
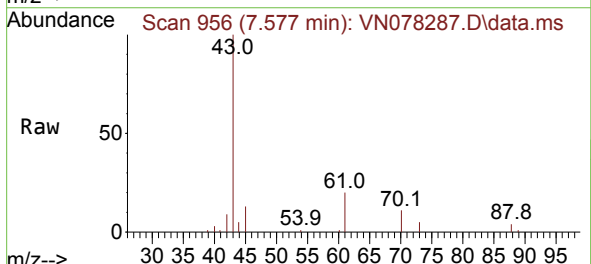
Instrument :
MSVOA_N
ClientSampleId :
WC-19

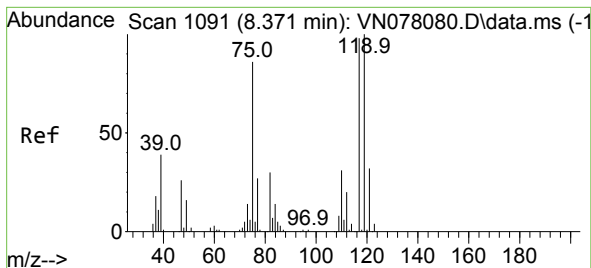
Tgt Ion: 75 Resp: 39097
Ion Ratio Lower Upper
75 100
110 9.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.440 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 43 Resp: 63843
Ion Ratio Lower Upper
43 100
61 16.3 13.2 19.8
70 11.6 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.008 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WC-19

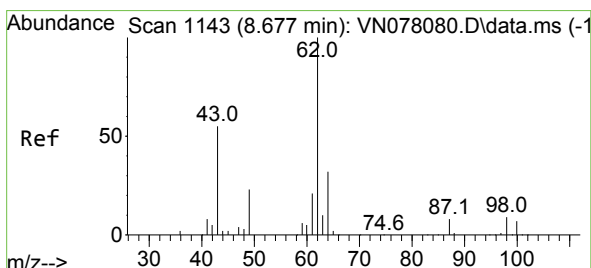
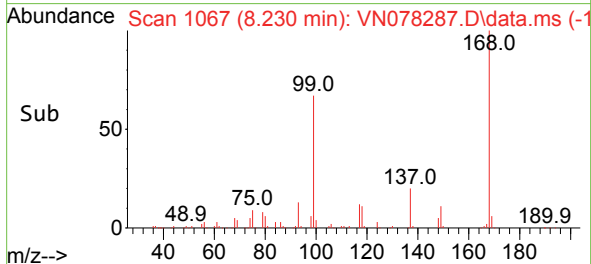
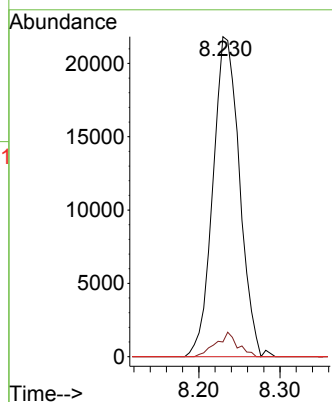
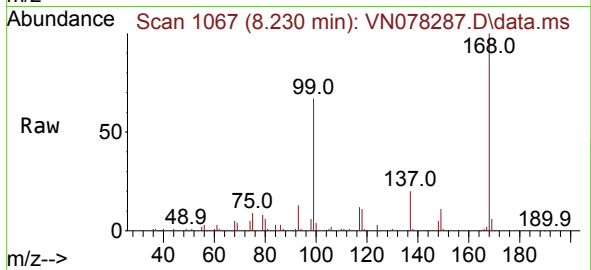
Tgt Ion:117 Resp: 49655

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.285 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078287.D

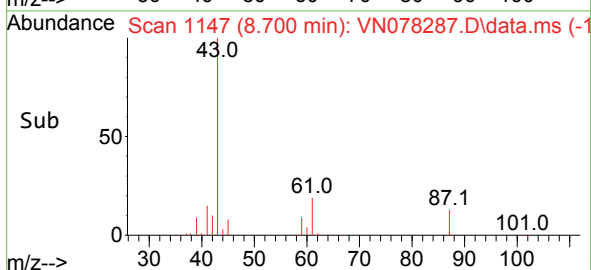
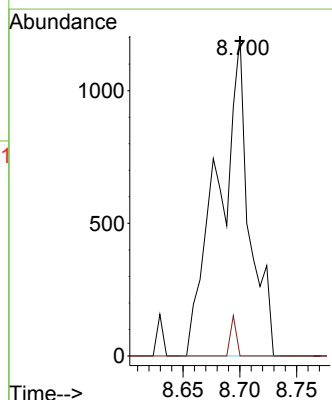
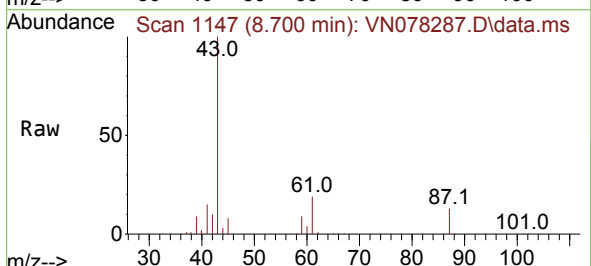
Acq: 19 Jun 2023 18:38

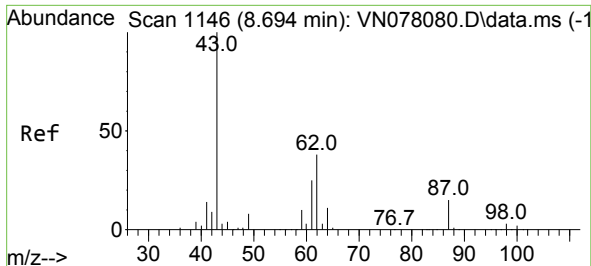
Tgt Ion: 62 Resp: 2283

Ion Ratio Lower Upper

62 100

98 2.4 0.0 19.8

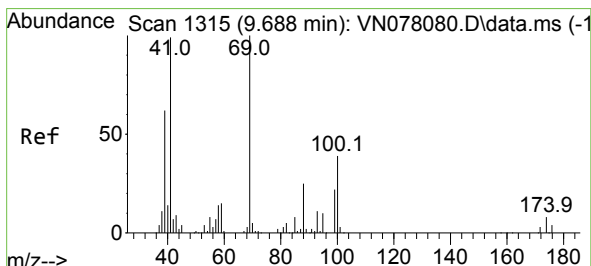
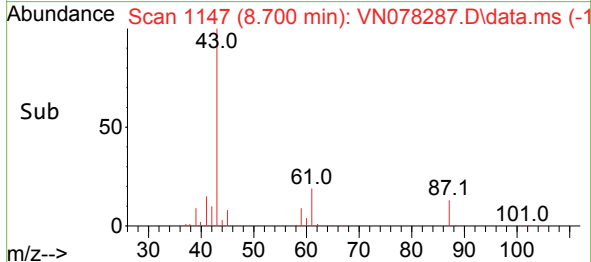
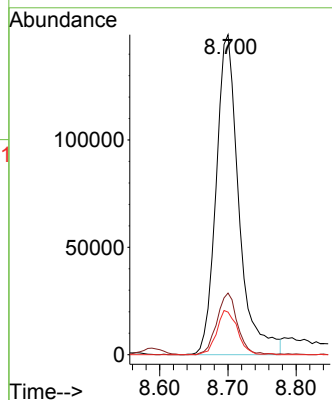
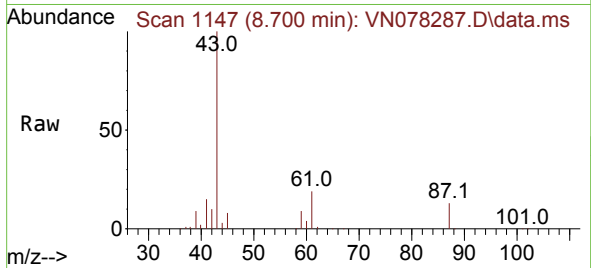




#43
Isopropyl Acetate
Concen: 29.616 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

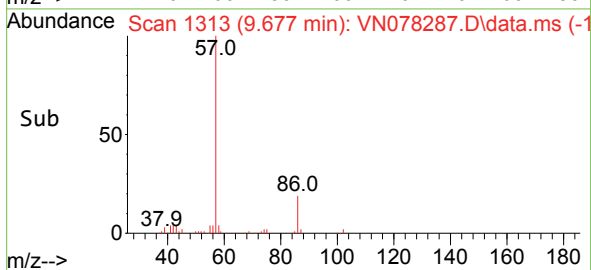
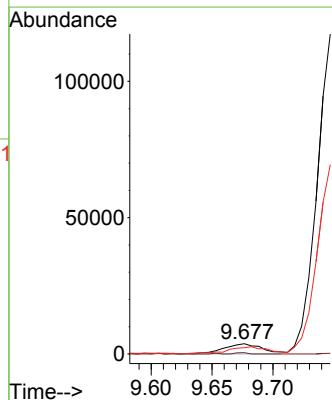
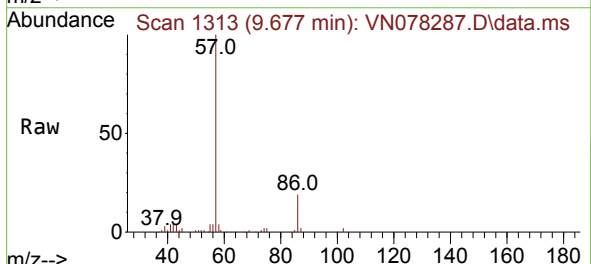
Instrument :
MSVOA_N
ClientSampleId :
WC-19

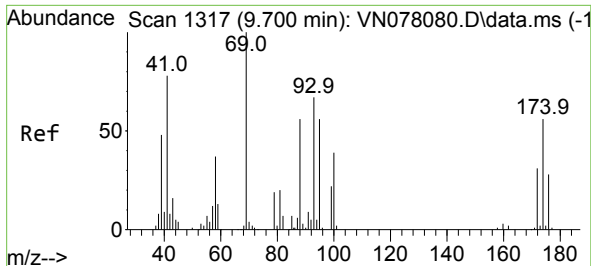
Tgt Ion: 43 Resp: 346357
Ion Ratio Lower Upper
43 100
61 17.5 24.7 37.1#
87 12.5 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.654 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 41 Resp: 8117
Ion Ratio Lower Upper
41 100
69 4.0 90.4 135.6#
39 77.5 54.6 81.8





#49

1,4-Dioxane

Concen: 0.659 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WC-19

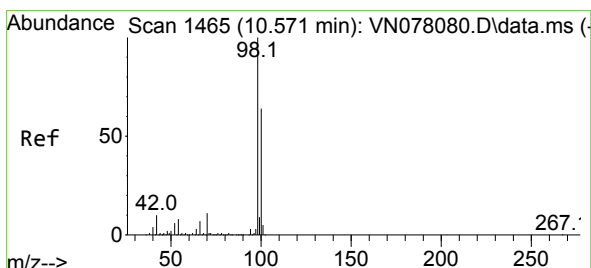
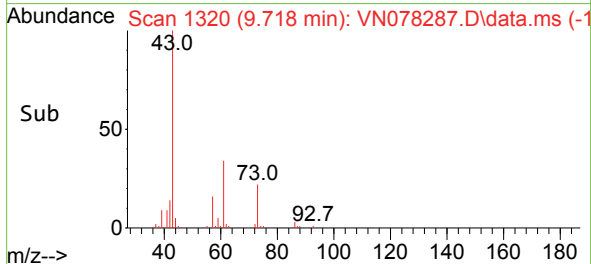
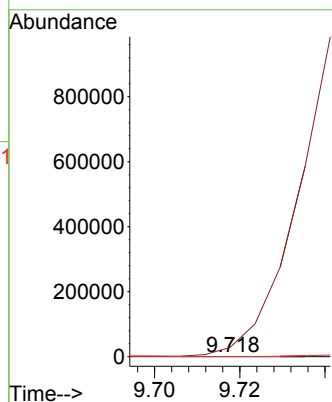
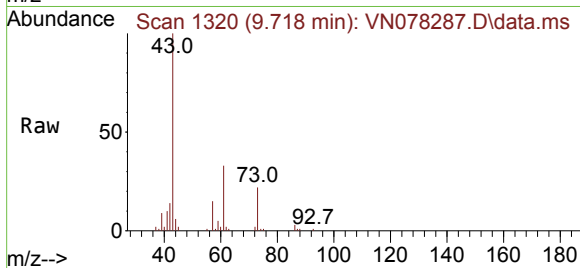
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 48.744 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078287.D

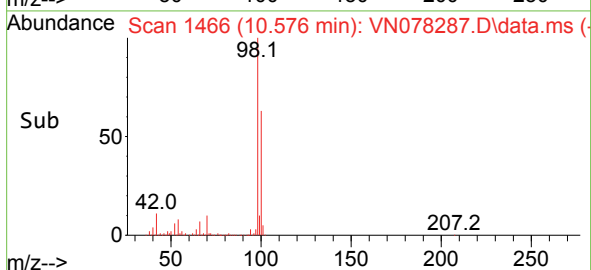
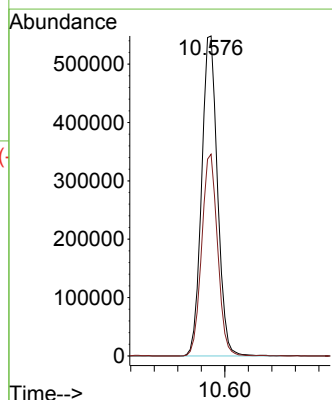
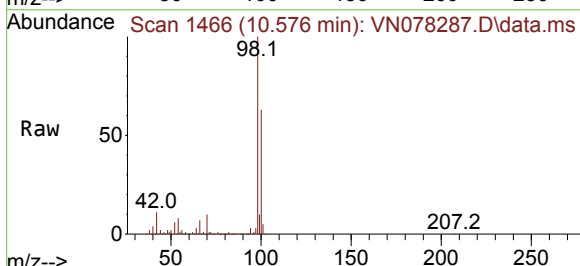
Acq: 19 Jun 2023 18:38

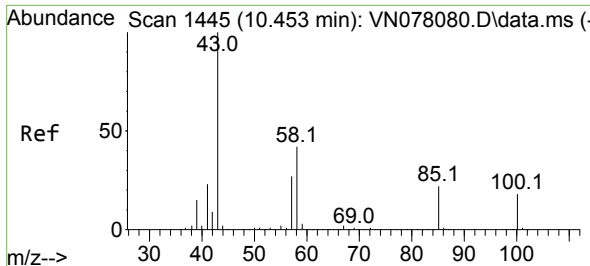
Tgt Ion: 98 Resp: 1025488

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0

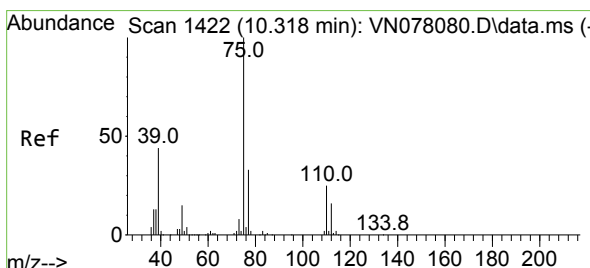
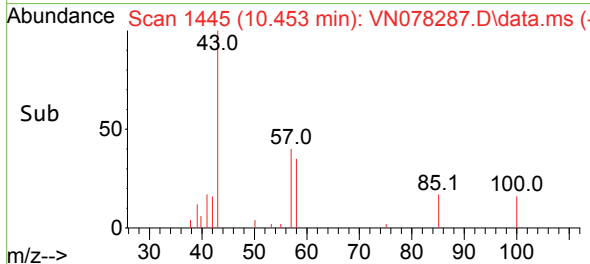
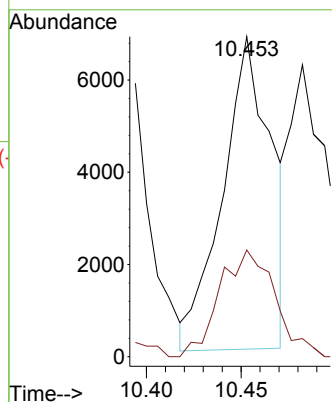
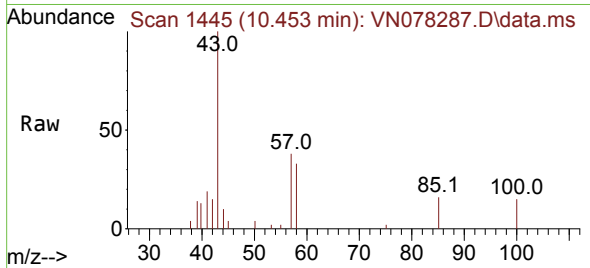




#51
4-Methyl-2-Pentanone
Concen: 1.962 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

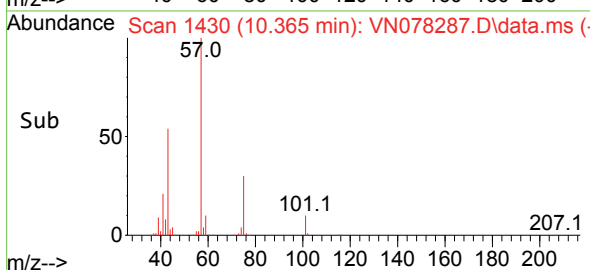
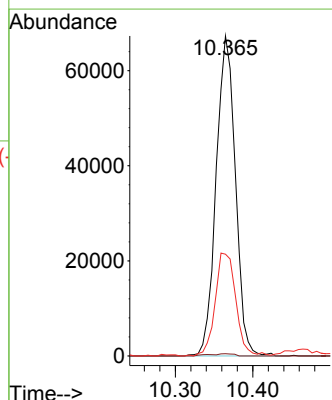
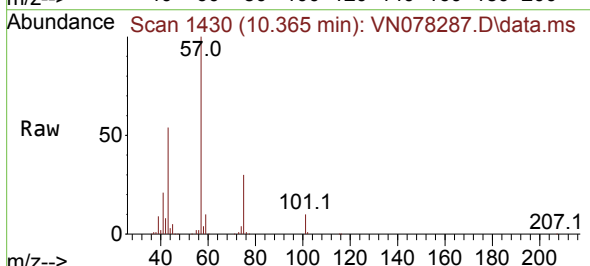
Instrument :
MSVOA_N
ClientSampleId :
WC-19

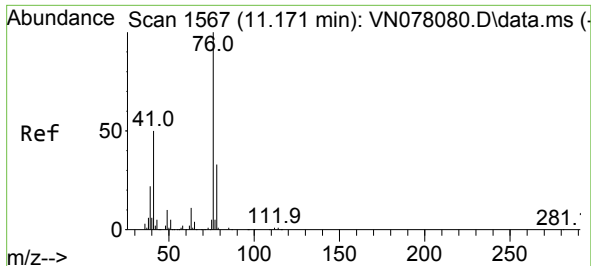
Tgt Ion: 43 Resp: 12080
Ion Ratio Lower Upper
43 100
58 38.9 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 12.700 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 75 Resp: 116308
Ion Ratio Lower Upper
75 100
77 0.7 26.1 39.1#
39 31.8 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.401 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

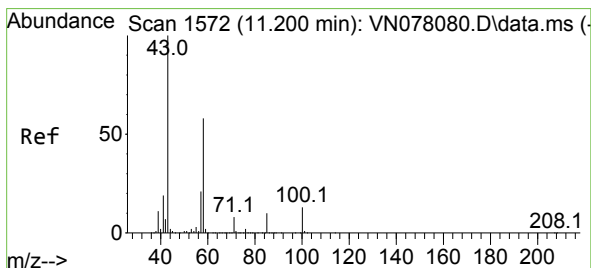
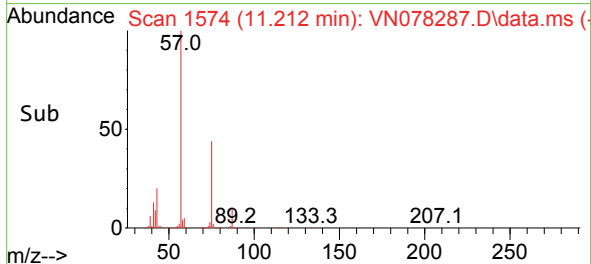
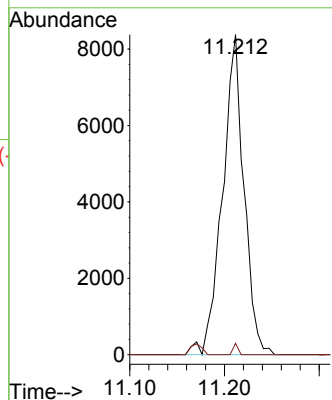
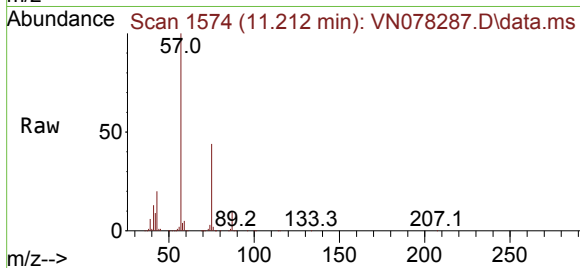
WC-19

Tgt Ion: 76 Resp: 13201

Ion Ratio Lower Upper

76 100

78 0.8 26.1 39.1#



#59

2-Hexanone

Concen: 59.216 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078287.D

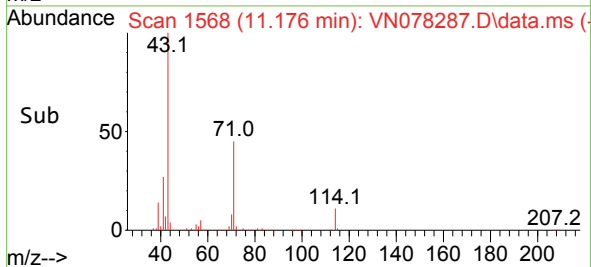
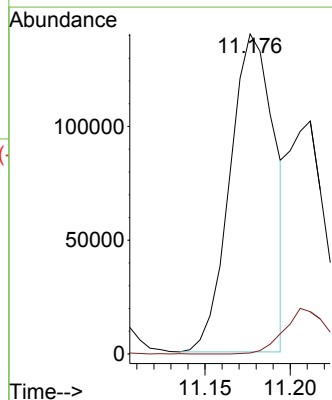
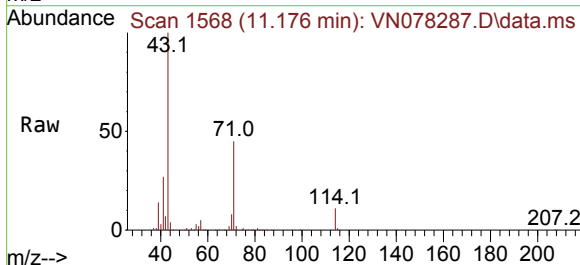
Acq: 19 Jun 2023 18:38

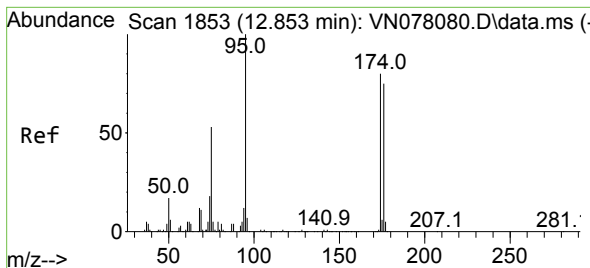
Tgt Ion: 43 Resp: 253921

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

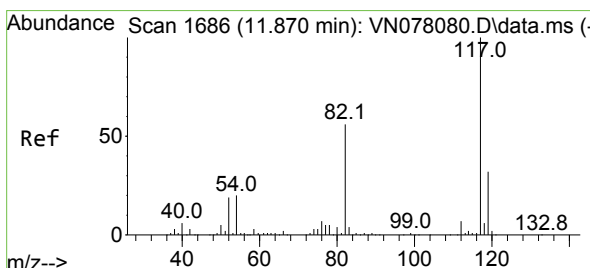
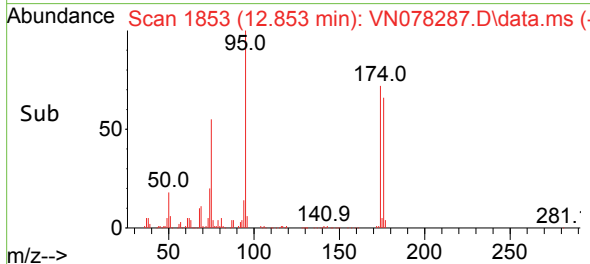
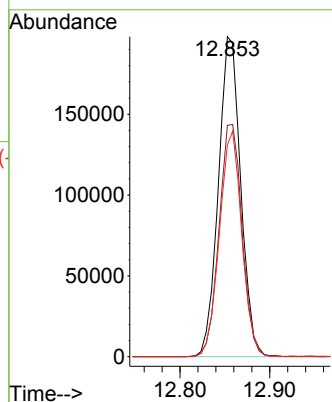
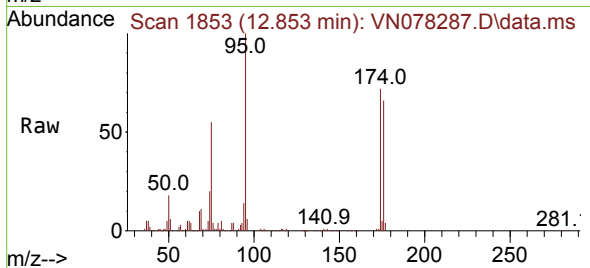




#62
4-Bromofluorobenzene
Concen: 52.234 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

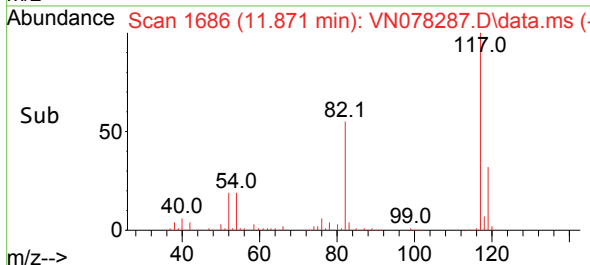
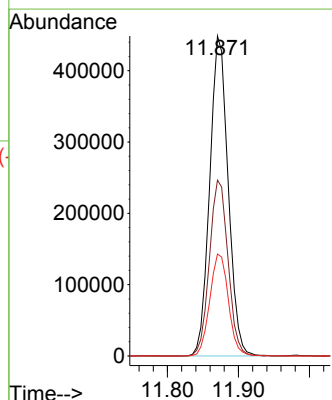
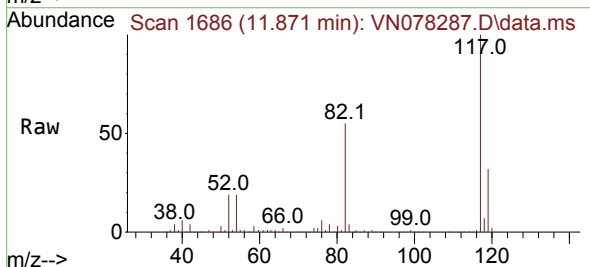
Instrument :
MSVOA_N
ClientSampleId :
WC-19

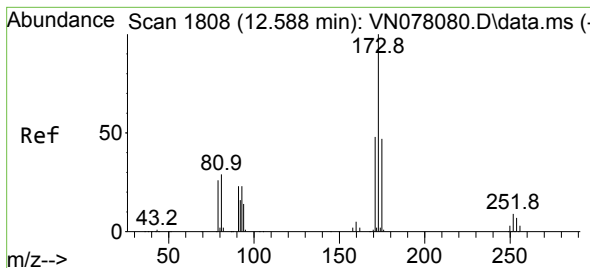
Tgt Ion: 95 Resp: 341628
Ion Ratio Lower Upper
95 100
174 74.8 0.0 143.8
176 70.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 117 Resp: 807469
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 31.9 25.6 38.4





#71

Bromoform

Concen: 0.507 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WC-19

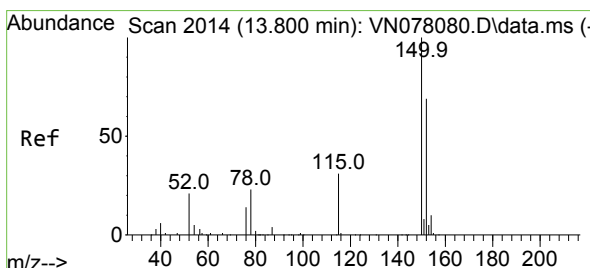
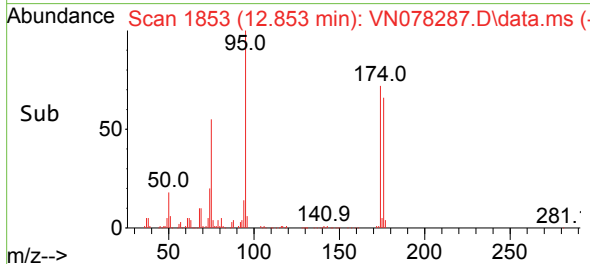
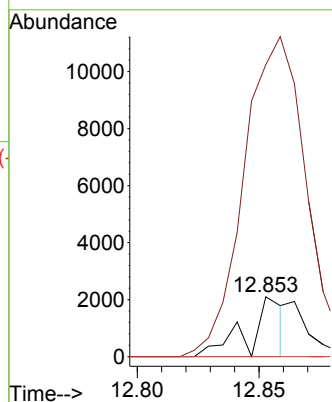
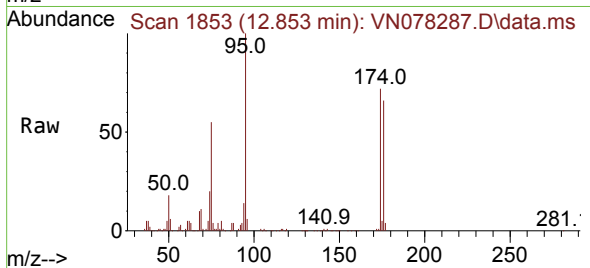
Tgt Ion:173 Resp: 2079

Ion Ratio Lower Upper

173 100

175 800.5 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. 0.000 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

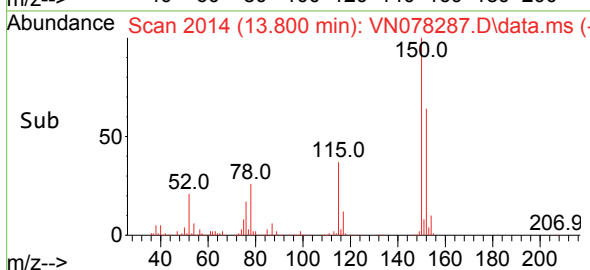
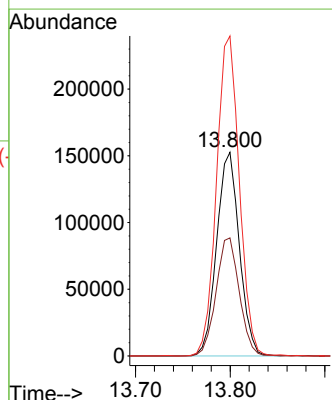
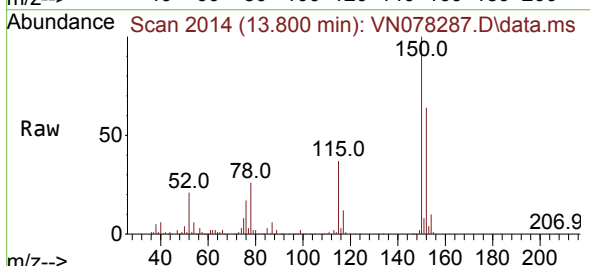
Tgt Ion:152 Resp: 254450

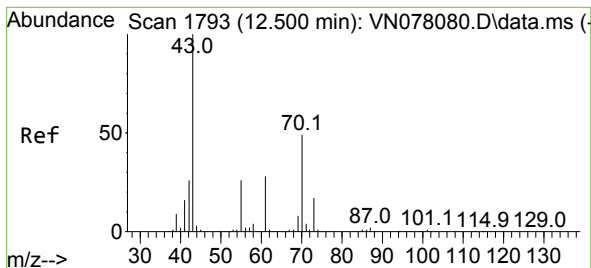
Ion Ratio Lower Upper

152 100

115 59.4 32.3 96.8

150 158.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.554 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion: 43 Resp: 4392

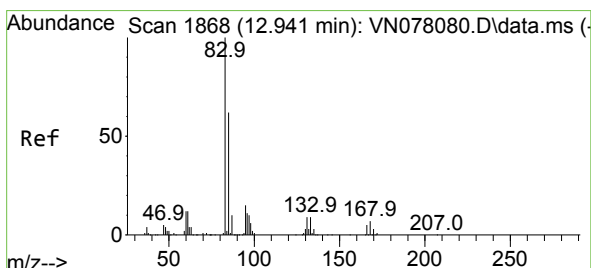
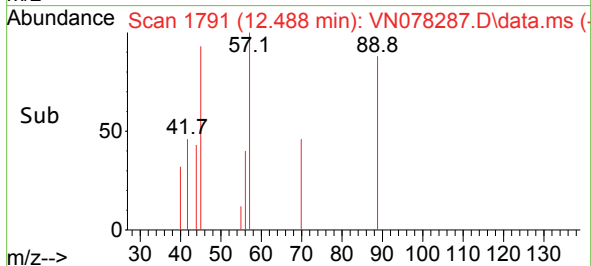
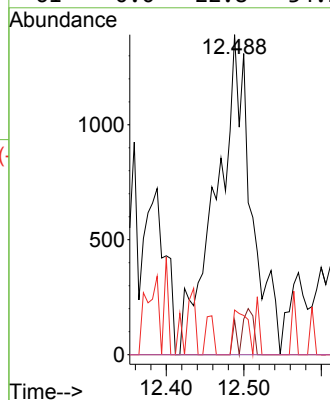
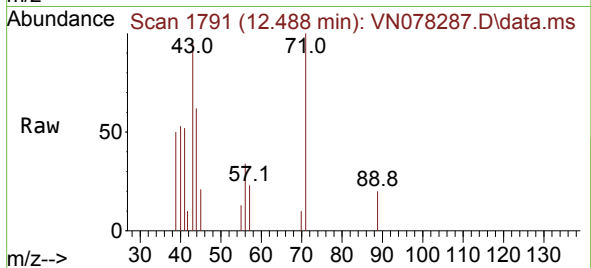
Ion Ratio Lower Upper

43 100

70 5.4 43.4 65.2#

55 5.6 21.4 32.0#

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

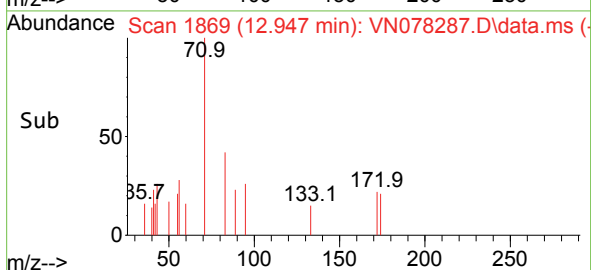
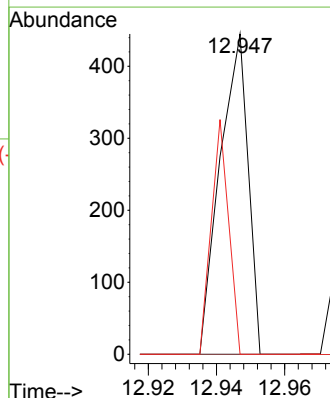
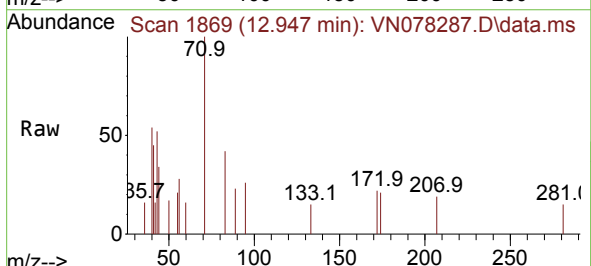
Tgt Ion: 83 Resp: 254

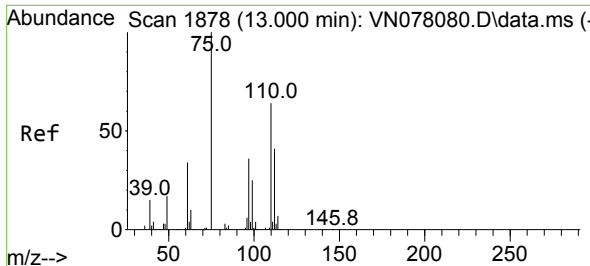
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 45.3 31.9 95.7

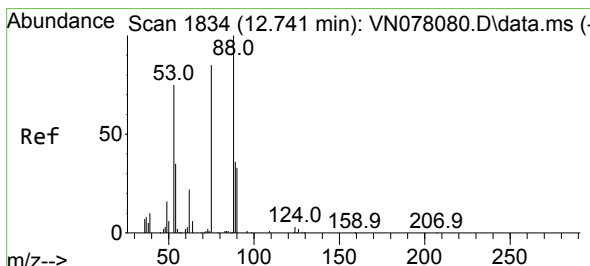
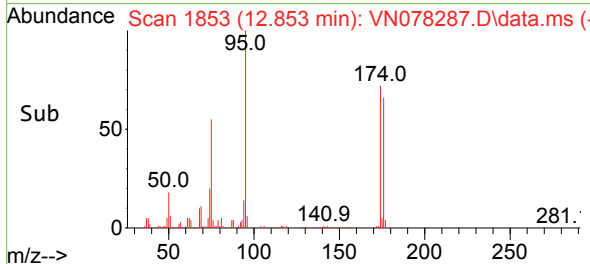
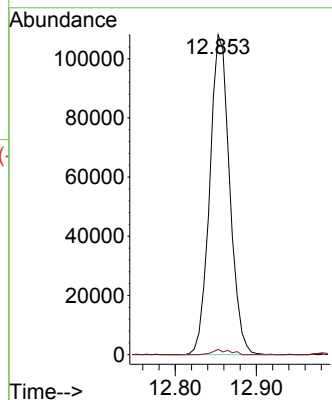
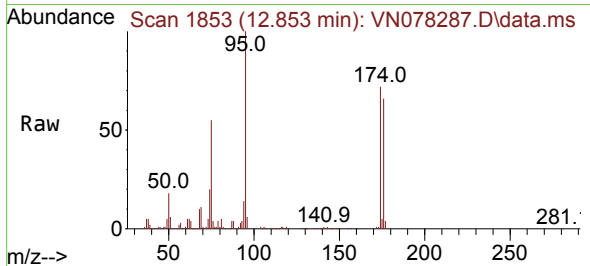




#76
1,2,3-Trichloropropane
Concen: 30.585 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

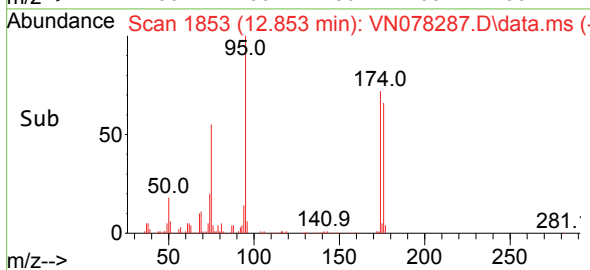
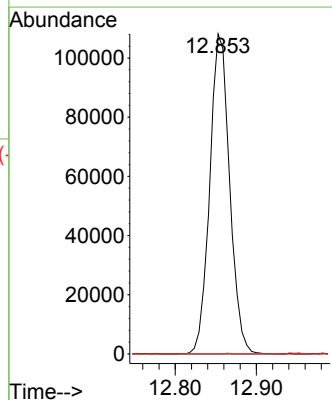
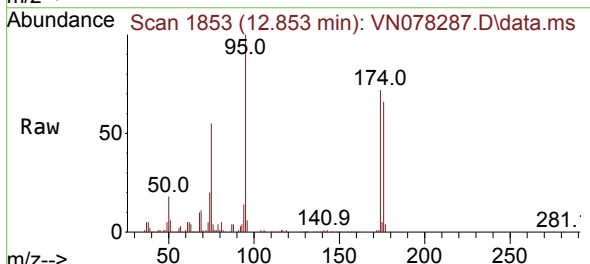
Instrument :
MSVOA_N
ClientSampleId :
WC-19

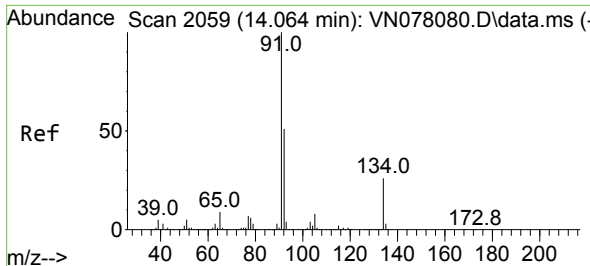
Tgt Ion: 75 Resp: 183979
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.967 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion: 75 Resp: 183979
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

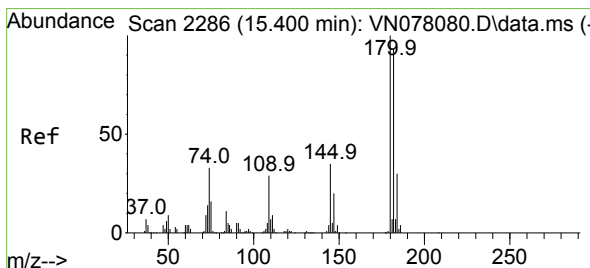
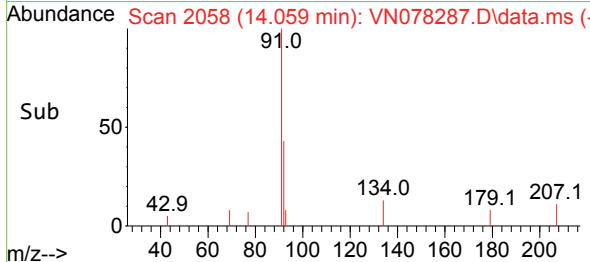
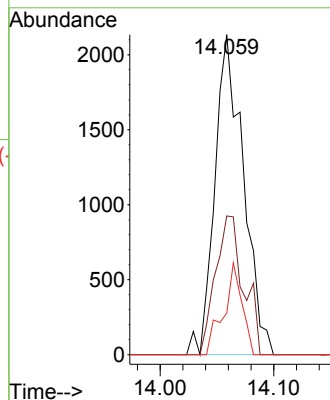
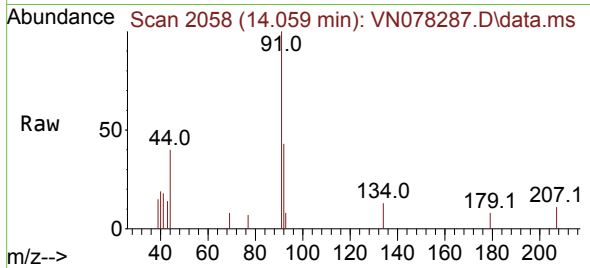




#89
n-Butylbenzene
Concen: 0.263 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

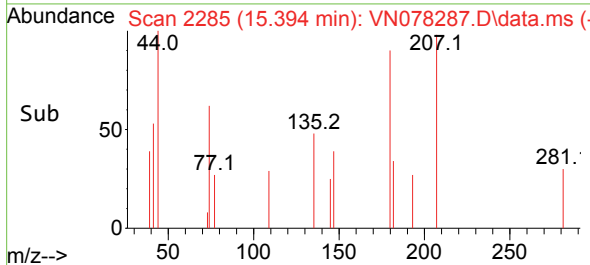
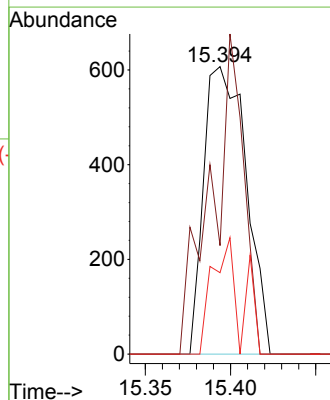
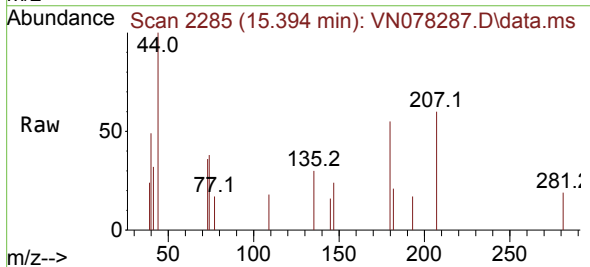
Instrument :
MSVOA_N
ClientSampleId :
WC-19

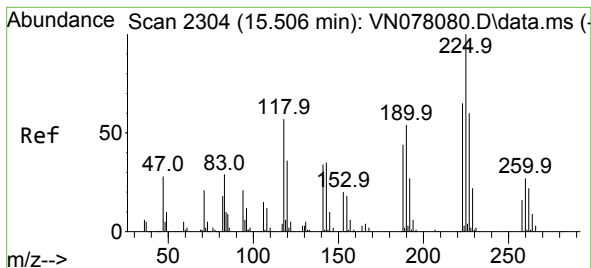
Tgt Ion:	91	Resp:	3728
Ion	Ratio	Lower	Upper
91	100		
92	42.6	26.4	79.0
134	18.4	12.6	37.6



#93
1,2,4-Trichlorobenzene
Concen: 0.320 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.006 min
Lab File: VN078287.D
Acq: 19 Jun 2023 18:38

Tgt Ion:	180	Resp:	1053
Ion	Ratio	Lower	Upper
180	100		
182	83.8	46.1	138.2
145	27.3	16.6	49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

Instrument :

MSVOA_N

ClientSampleId :

WC-19

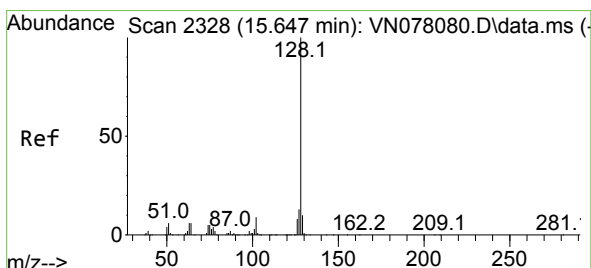
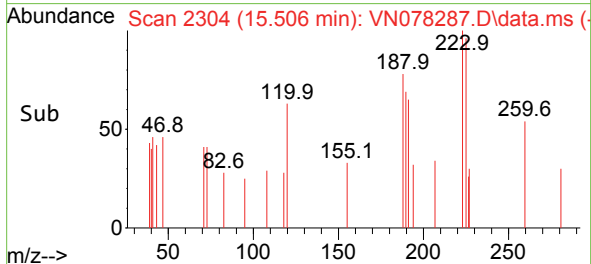
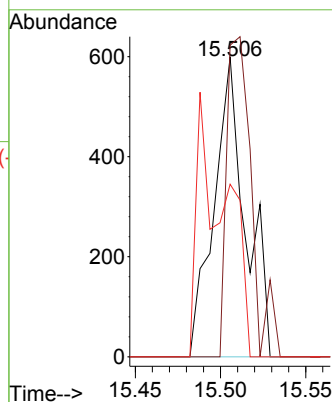
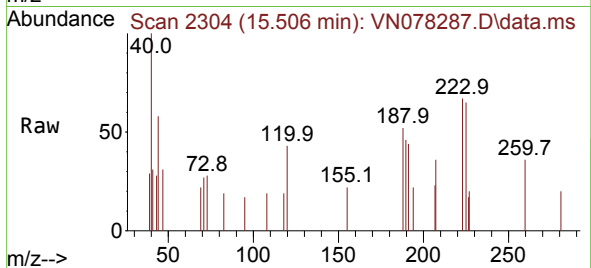
Tgt Ion:225 Resp: 770

Ion Ratio Lower Upper

225 100

223 83.9 31.3 93.8

227 0.0 31.9 95.9#



#95

Naphthalene

Concen: 0.360 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.000 min

Lab File: VN078287.D

Acq: 19 Jun 2023 18:38

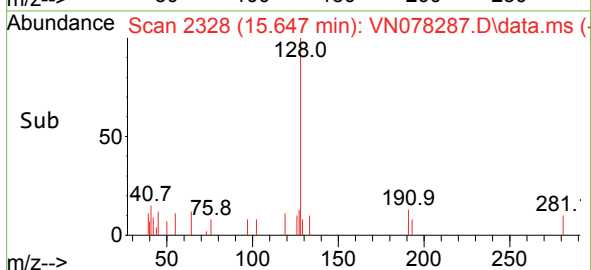
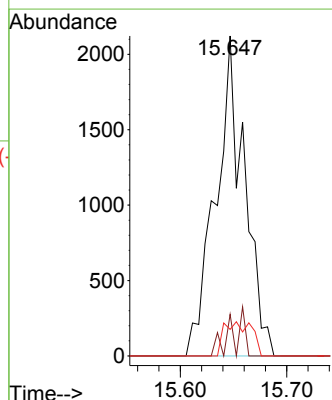
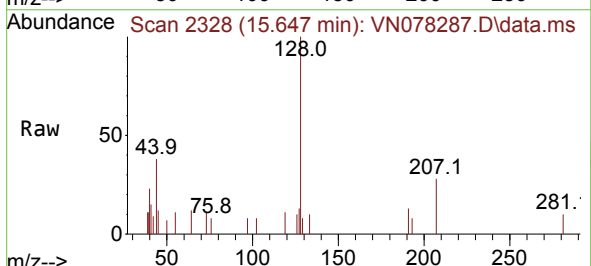
Tgt Ion:128 Resp: 3987

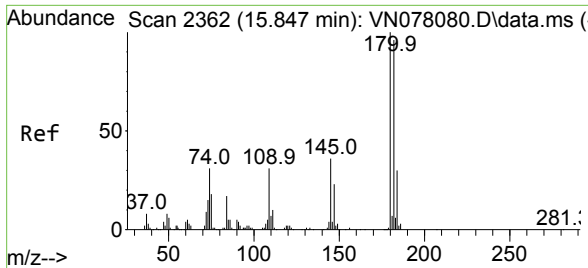
Ion Ratio Lower Upper

128 100

127 3.8 10.0 15.0#

129 10.3 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.252 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN078287.D
 Acq: 19 Jun 2023 18:38

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-19

Tgt Ion:180	Resp:	927
Ion	Ratio	Lower Upper
180	100	
182	59.7	46.2 138.6
145	7.3	17.5 52.6#

