

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042023\
 Data File : VN077411.D
 Acq On : 20 Apr 2023 19:36
 Operator : JC\MD
 Sample : 02386-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPA-5WC-23-04

Quant Time: Apr 21 02:42:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

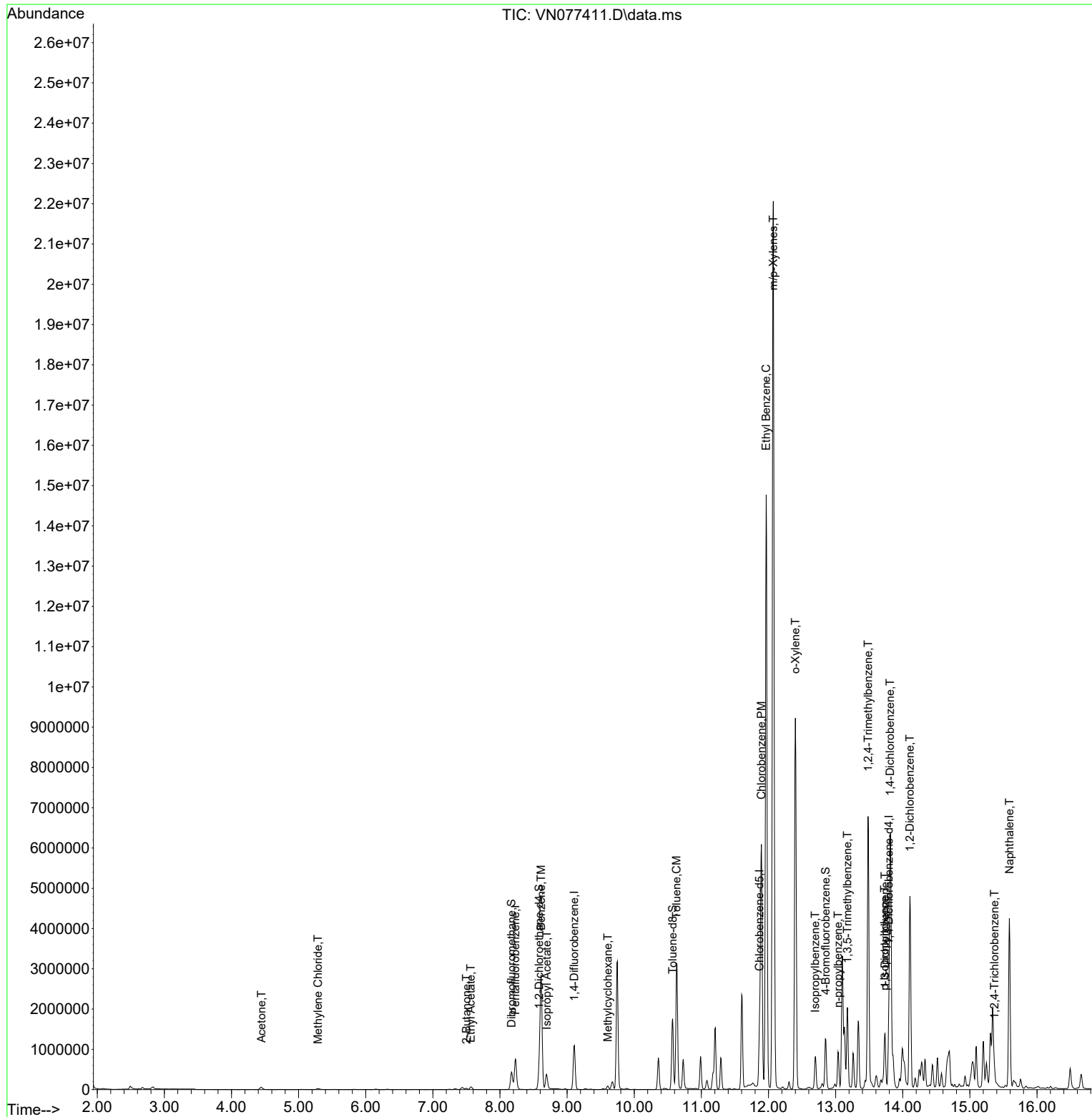
Internal Standards						
1) Pentafluorobenzene	8.231	168	534920	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1019174	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	916012	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	386248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	347381	47.515	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.040%		
35) Dibromofluoromethane	8.172	113	307031	47.059	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.120%		
50) Toluene-d8	10.572	98	1252946	47.704	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.400%		
62) 4-Bromofluorobenzene	12.854	95	451960	51.739	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.480%		
Target Compounds					Qvalue	
16) Acetone	4.449	43	107314	39.811	ug/l	97
20) Methylene Chloride	5.290	84	19436	2.553	ug/l #	90
25) 2-Butanone	7.501	43	29443	6.730	ug/l	96
37) Ethyl Acetate	7.566	43	94281	10.920	ug/l	95
39) Methylcyclohexane	9.607	83	39877	3.065	ug/l	91
40) Benzene	8.613	78	2993179	99.446	ug/l	99
43) Isopropyl Acetate	8.695	43	415356	26.072	ug/l #	92
52) Toluene	10.631	92	1472006	74.718	ug/l	99
65) Chlorobenzene	11.895	112	3560899	176.570	ug/l	97
67) Ethyl Benzene	11.966	91	11132730	299.150	ug/l	99
68) m/p-Xylenes	12.072	106	7353260	502.876	ug/l	98
69) o-Xylene	12.401	106	2757286	191.141	ug/l	100
73) Isopropylbenzene	12.695	105	560294	14.935	ug/l	100
78) n-propylbenzene	13.036	91	742130	17.903	ug/l	99
80) 1,3,5-Trimethylbenzene	13.177	105	1131020	37.746	ug/l	99
84) 1,2,4-Trimethylbenzene	13.483	105	4003707	135.248	ug/l	100
86) p-Isopropyltoluene	13.730	119	299259	10.244	ug/l	96
87) 1,3-Dichlorobenzene	13.736	146	380387	26.954	ug/l	98
88) 1,4-Dichlorobenzene	13.813	146	1768372	127.065	ug/l	98
91) 1,2-Dichlorobenzene	14.107	146	1993045	141.169	ug/l	100
93) 1,2,4-Trichlorobenzene	15.365	180	58641	11.506	ug/l	91
95) Naphthalene	15.589	128	2184068	114.079	ug/l	99

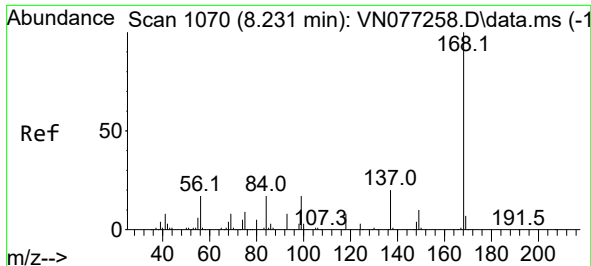
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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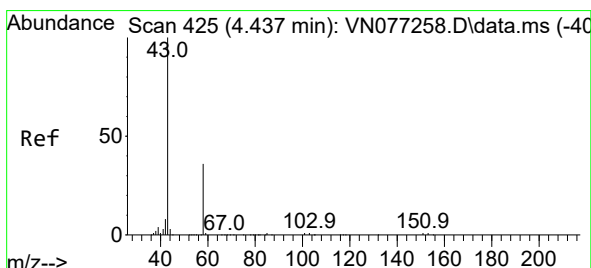
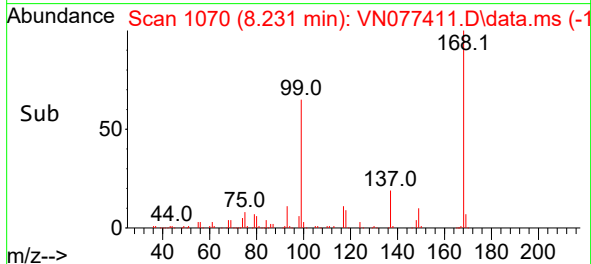
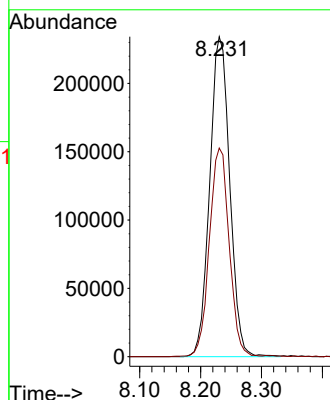
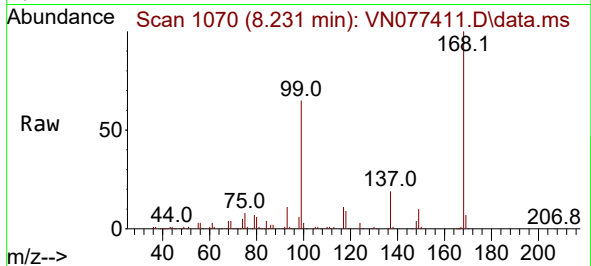




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

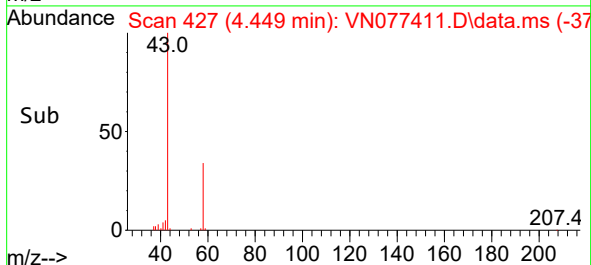
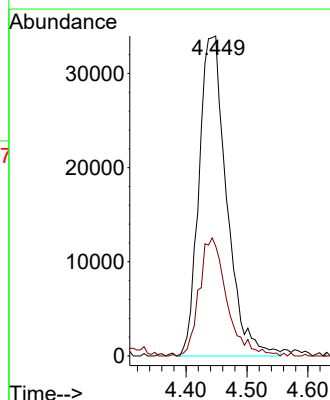
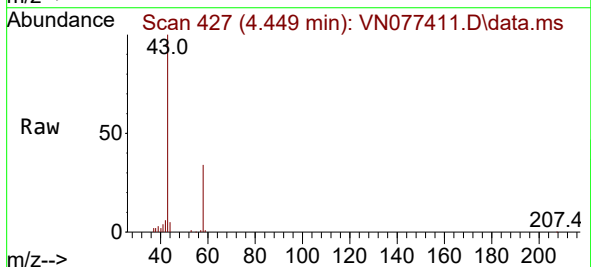
Instrument :
MSVOA_N
ClientSampleId :
SPA-5WC-23-04

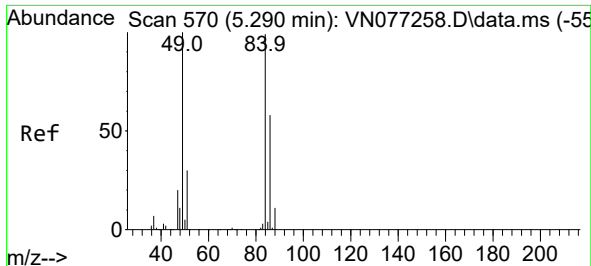
Tgt Ion:168 Resp: 534920
Ion Ratio Lower Upper
168 100
99 65.1 50.6 75.8



#16
Acetone
Concen: 39.811 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.012 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion: 43 Resp: 107314
Ion Ratio Lower Upper
43 100
58 34.3 29.0 43.6

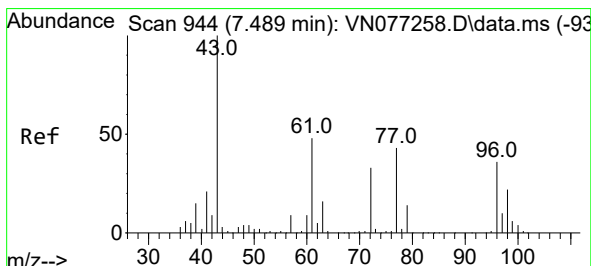
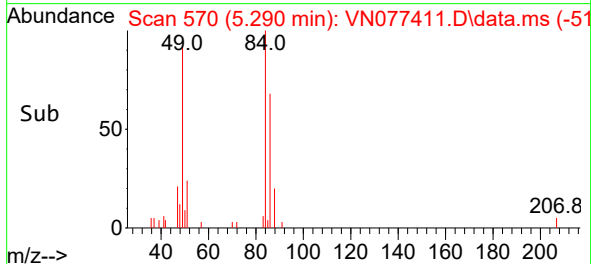
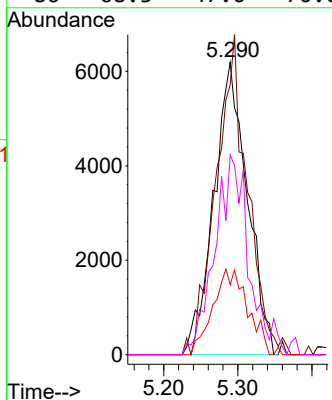
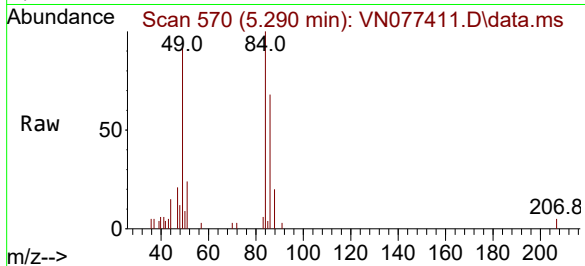




#20
Methylene Chloride
Concen: 2.553 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

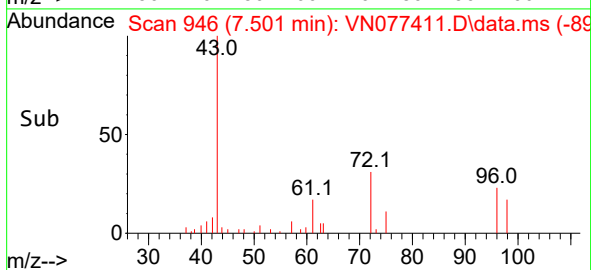
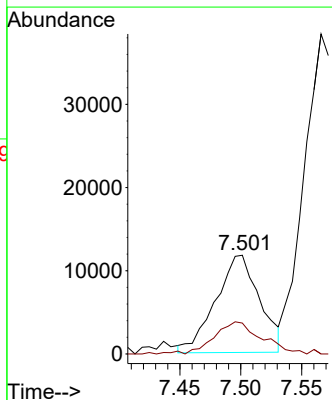
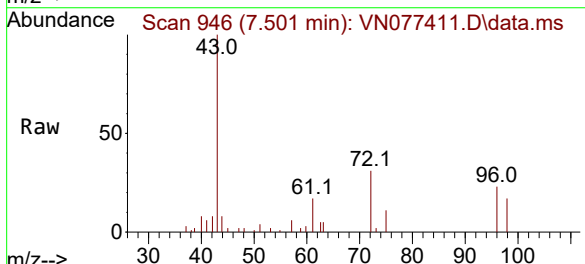
Instrument :
MSVOA_N
ClientSampleId :
SPA-5WC-23-04

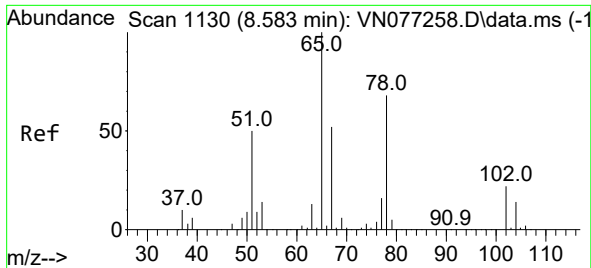
Tgt Ion:	84	Resp:	19436
Ion Ratio	Lower	Upper	
84	100		
49	92.4	80.6	121.0
51	23.9	24.4	36.6#
86	68.3	47.0	70.6



#25
2-Butanone
Concen: 6.730 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion:	43	Resp:	29443
Ion Ratio	Lower	Upper	
43	100		
72	31.0	26.6	39.8





#33

1,2-Dichloroethane-d4

Concen: 47.515 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

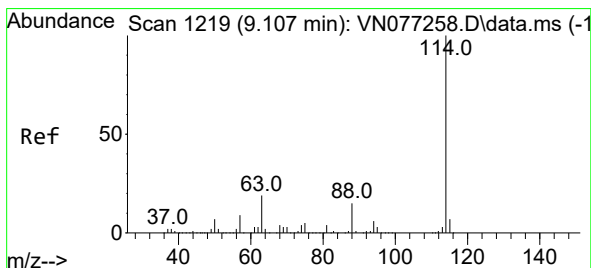
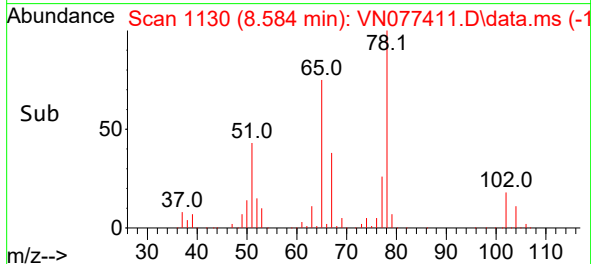
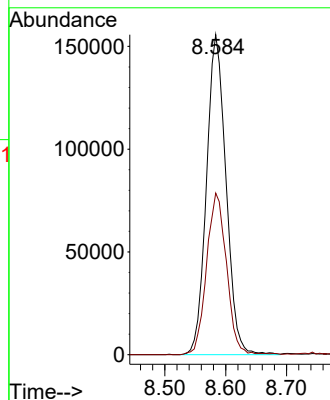
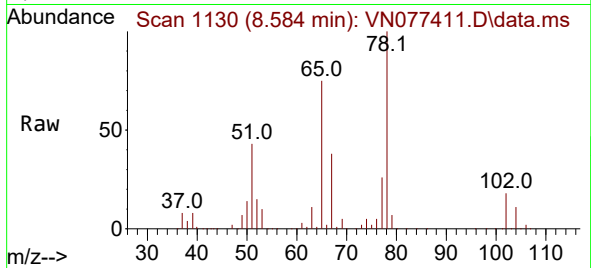
SPA-5WC-23-04

Tgt Ion: 65 Resp: 347381

Ion Ratio Lower Upper

65 100

67 51.6 0.0 108.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

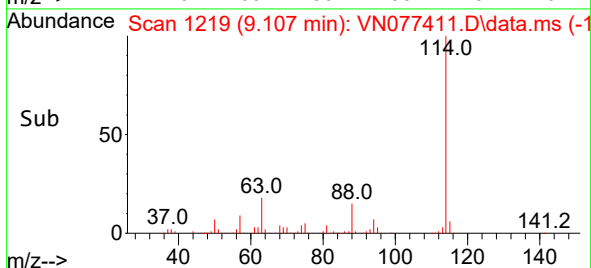
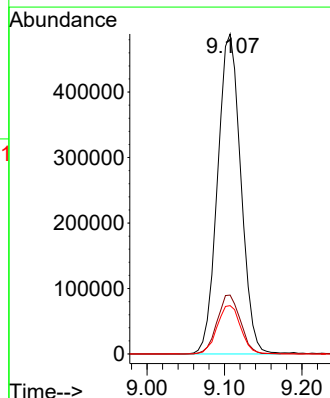
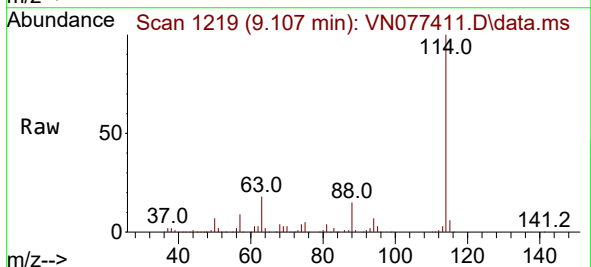
Tgt Ion: 114 Resp: 1019174

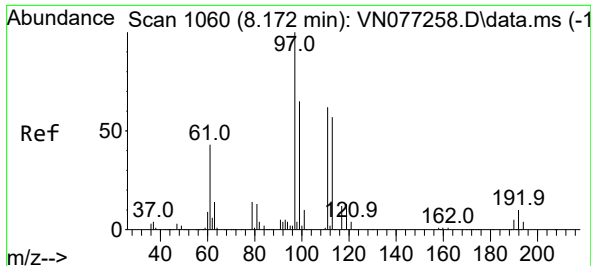
Ion Ratio Lower Upper

114 100

63 18.4 0.0 37.8

88 15.1 0.0 29.4





#35

Dibromofluoromethane

Concen: 47.059 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077411.D

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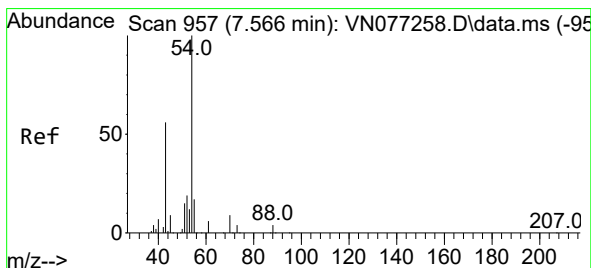
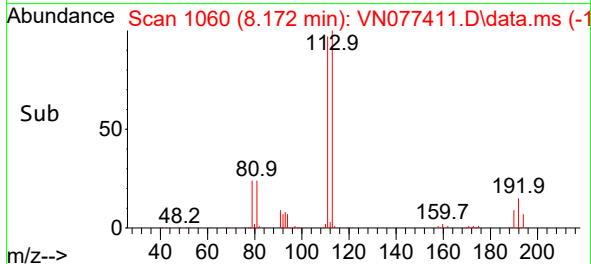
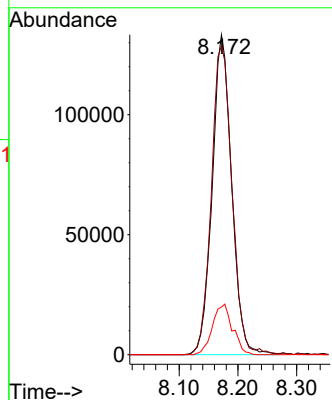
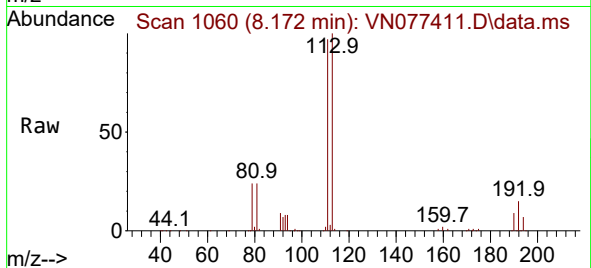
Tgt Ion:113 Resp: 307031

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.0

192 16.3 13.5 20.3



#37

Ethyl Acetate

Concen: 10.920 ug/l

RT: 7.566 min Scan# 957

Delta R.T. 0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

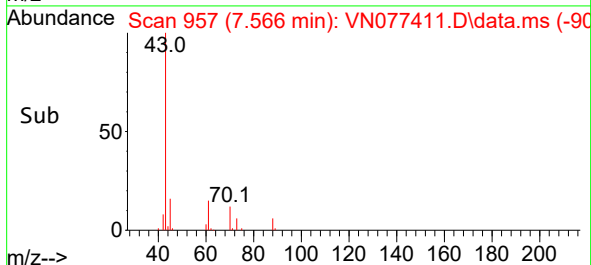
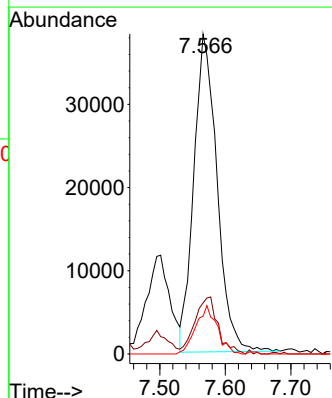
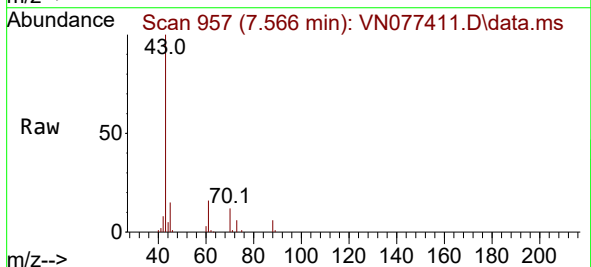
Tgt Ion: 43 Resp: 94281

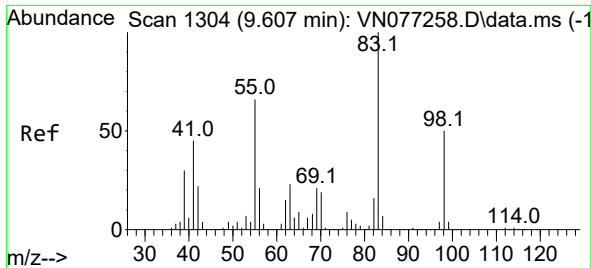
Ion Ratio Lower Upper

43 100

61 17.8 12.2 18.2

70 13.9 10.0 15.0





#39

Methylcyclohexane

Concen: 3.065 ug/l

RT: 9.607 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VN077411.D

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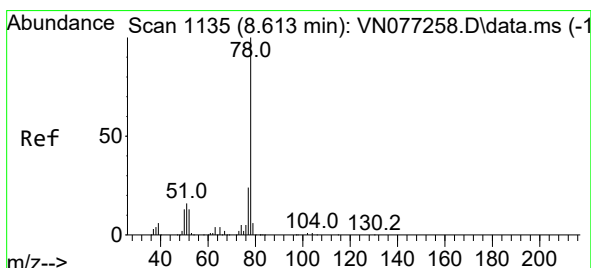
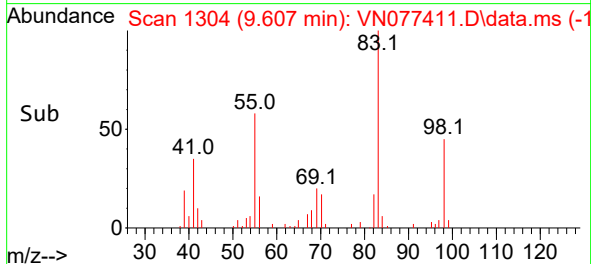
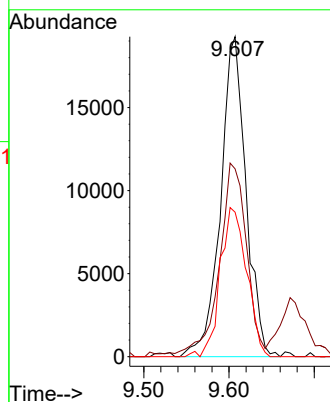
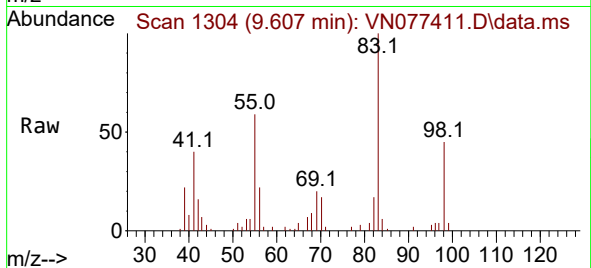
Tgt Ion: 83 Resp: 39877

Ion Ratio Lower Upper

83 100

55 57.0 52.4 78.6

98 45.1 39.8 59.6



#40

Benzene

Concen: 99.446 ug/l

RT: 8.613 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VN077411.D

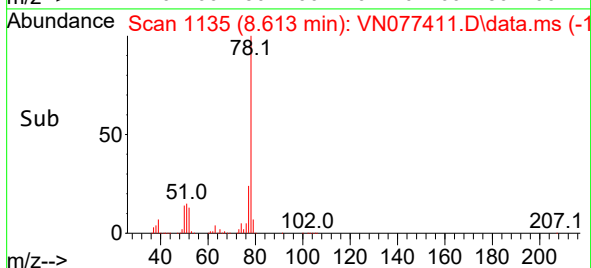
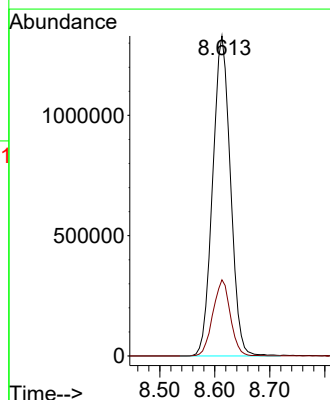
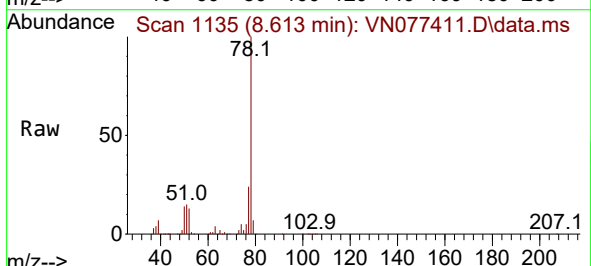
Acq: 20 Apr 2023 19:36

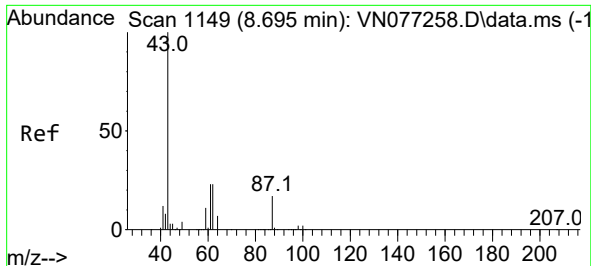
Tgt Ion: 78 Resp: 2993179

Ion Ratio Lower Upper

78 100

77 23.8 19.5 29.3

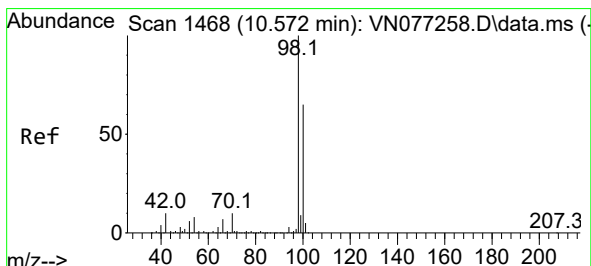
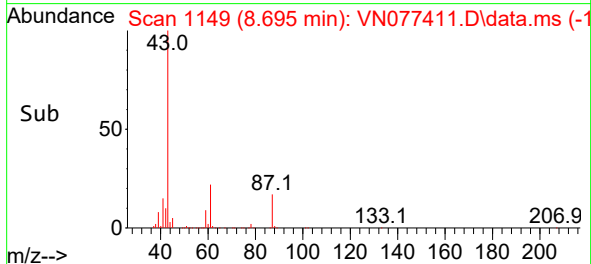
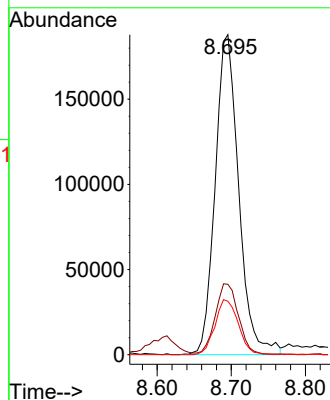
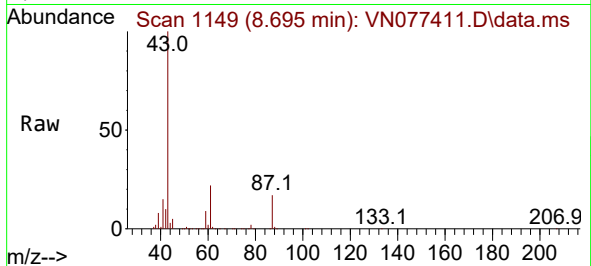




#43
Isopropyl Acetate
Concen: 26.072 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

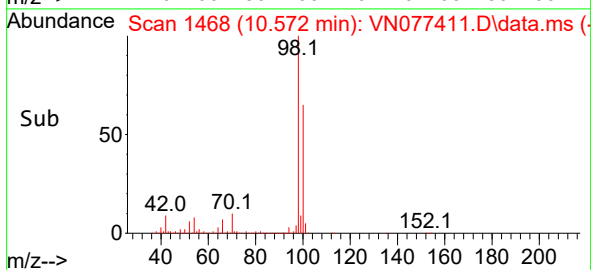
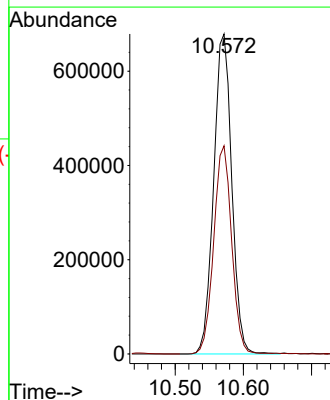
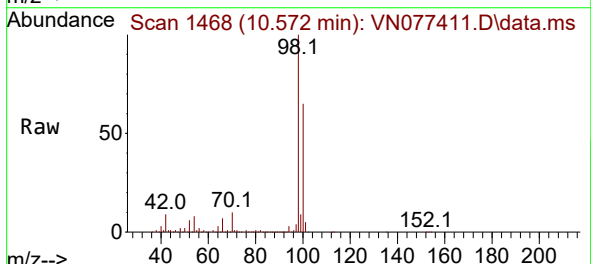
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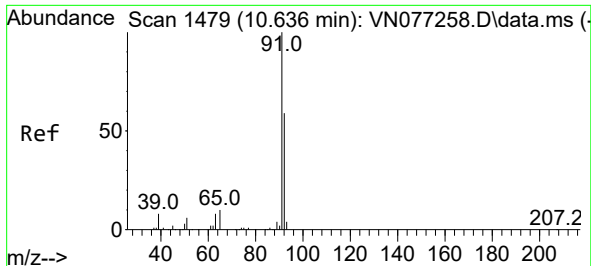
Tgt Ion: 43 Resp: 415356
Ion Ratio Lower Upper
43 100
61 21.7 22.7 34.1#
87 17.0 13.6 20.4



#50
Toluene-d8
Concen: 47.704 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion: 98 Resp: 1252946
Ion Ratio Lower Upper
98 100
100 64.5 51.3 76.9

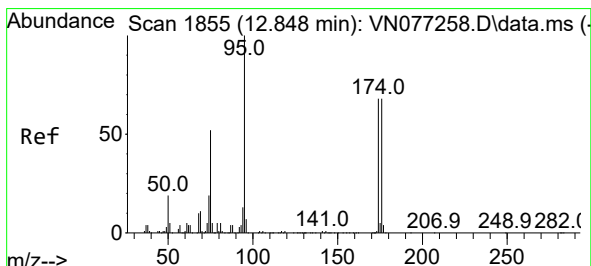
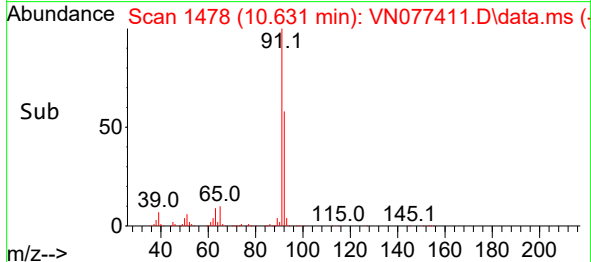
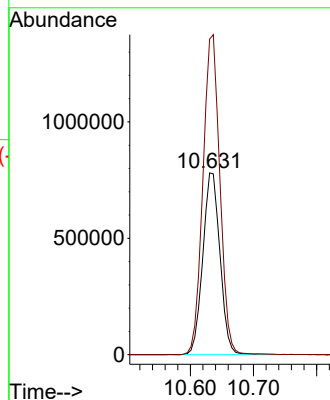
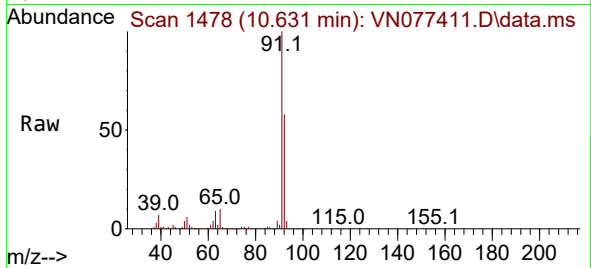




#52
Toluene
Concen: 74.718 ug/l
RT: 10.631 min Scan# 1478
Delta R.T. -0.005 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

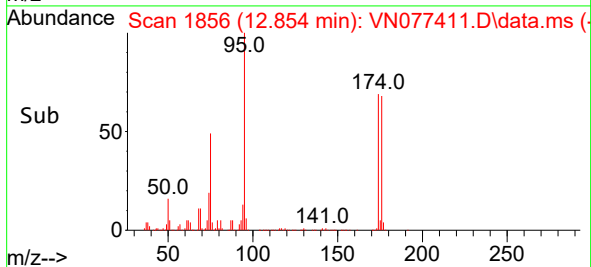
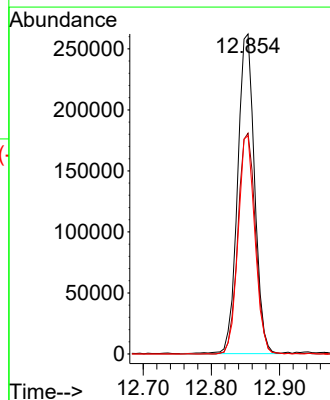
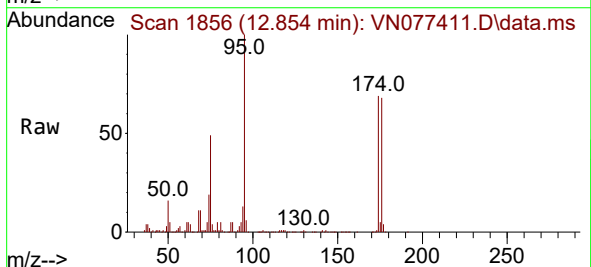
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SPA-5WC-23-04

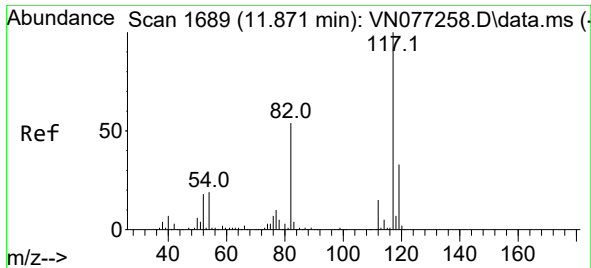
Tgt Ion: 92 Resp: 1472006
Ion Ratio Lower Upper
92 100
91 173.8 138.0 207.0



#62
4-Bromofluorobenzene
Concen: 51.739 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion: 95 Resp: 451960
Ion Ratio Lower Upper
95 100
174 71.5 0.0 146.8
176 67.6 0.0 139.6

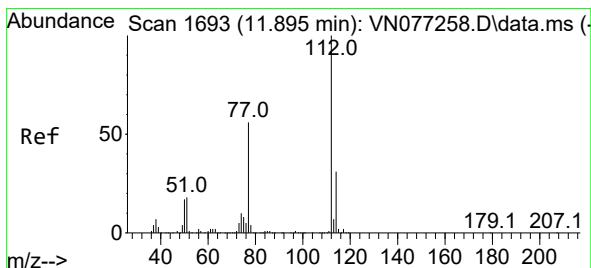
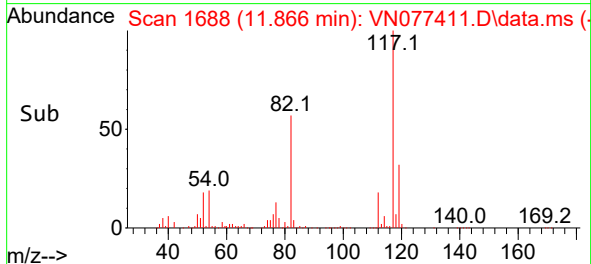
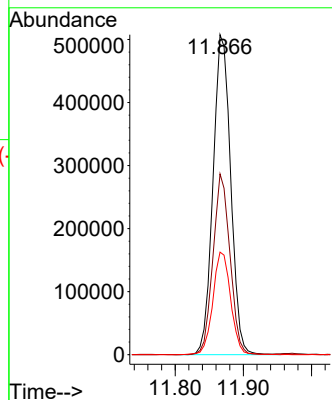
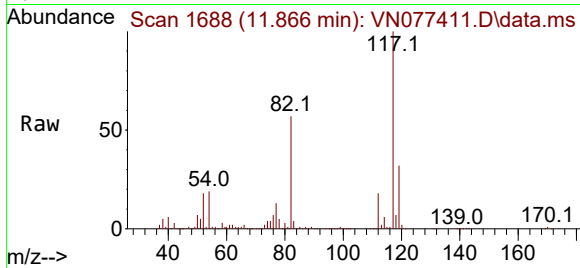




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.005 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

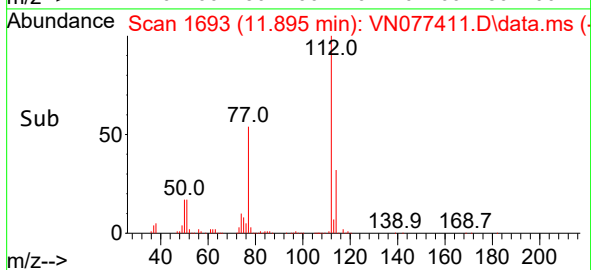
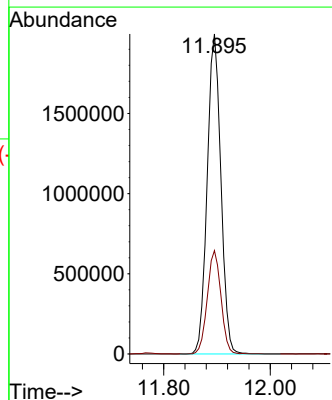
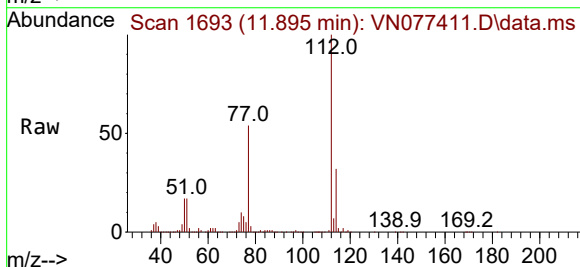
Instrument :
MSVOA_N
ClientSampleId :
SPA-5WC-23-04

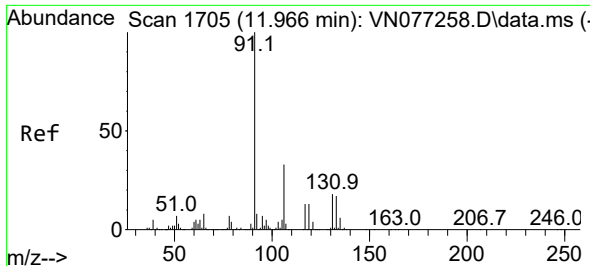
Tgt Ion:117 Resp: 916012
Ion Ratio Lower Upper
117 100
82 56.5 42.9 64.3
119 32.1 26.2 39.4



#65
Chlorobenzene
Concen: 176.570 ug/l
RT: 11.895 min Scan# 1693
Delta R.T. 0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion:112 Resp: 3560899
Ion Ratio Lower Upper
112 100
114 32.3 24.6 36.8

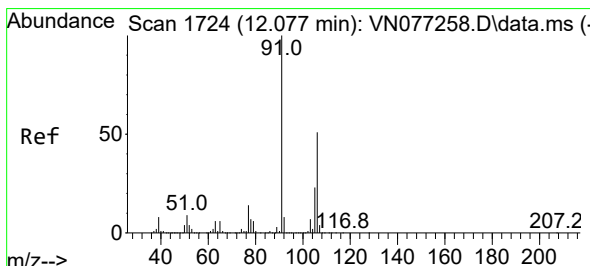
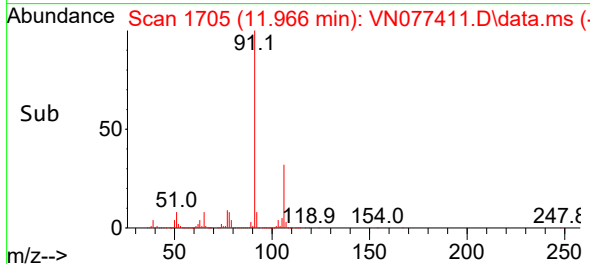
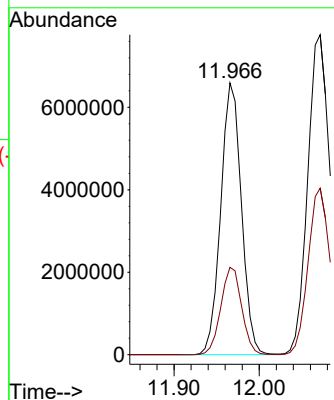
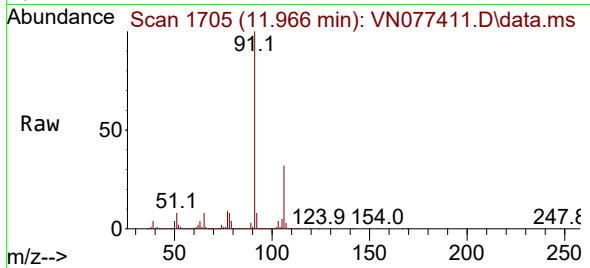




#67
Ethyl Benzene
Concen: 299.150 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

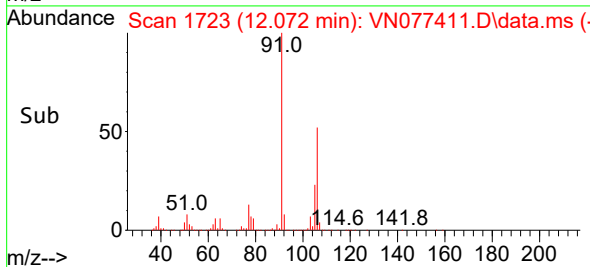
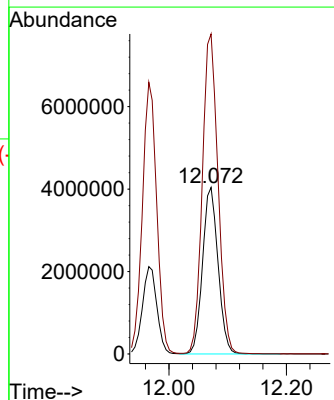
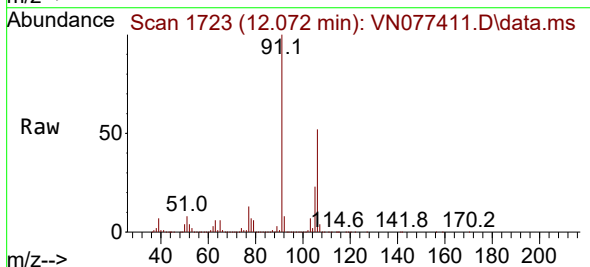
Instrument :
MSVOA_N
ClientSampleId :
SPA-5WC-23-04

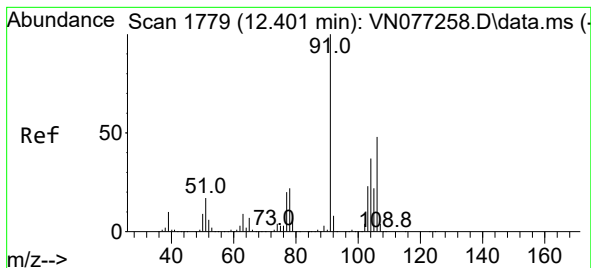
Tgt Ion: 91 Resp:11132730
Ion Ratio Lower Upper
91 100
106 32.1 26.2 39.2



#68
m/p-Xylenes
Concen: 502.876 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. -0.005 min
Lab File: VN077411.D
Acq: 20 Apr 2023 19:36

Tgt Ion:106 Resp: 7353260
Ion Ratio Lower Upper
106 100
91 194.8 158.7 238.1





#69

o-Xylene

Concen: 191.141 ug/l

RT: 12.401 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

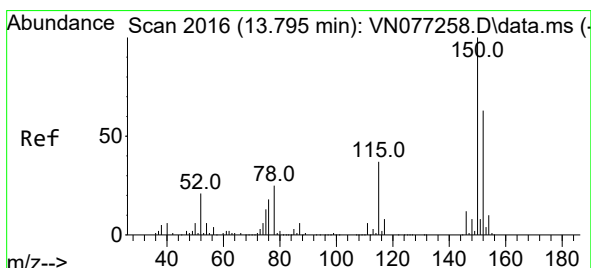
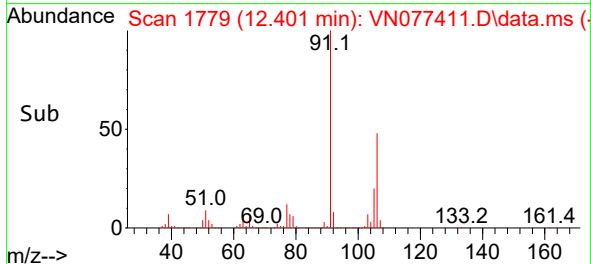
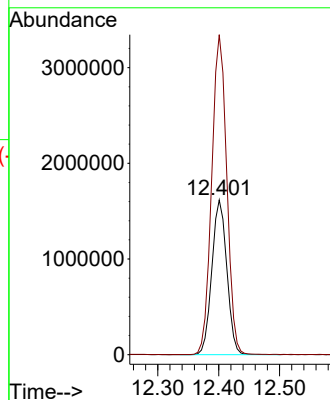
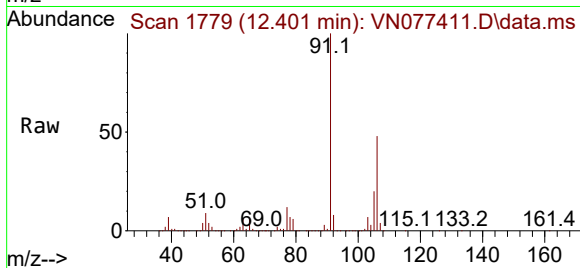
SPA-5WC-23-04

Tgt Ion:106 Resp: 2757286

Ion Ratio Lower Upper

106 100

91 208.2 104.0 312.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

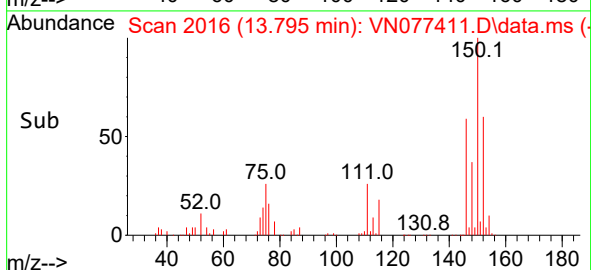
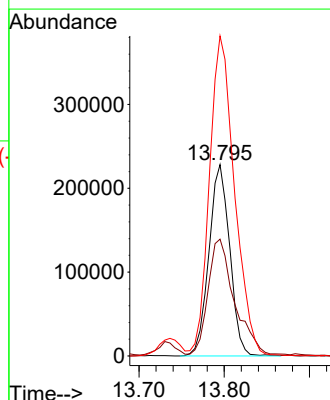
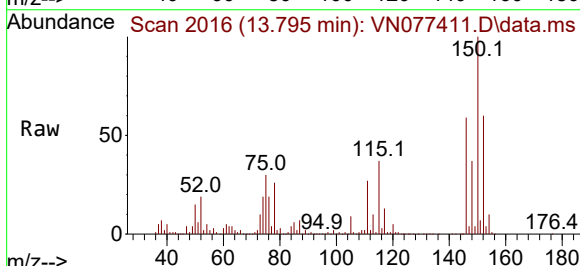
Tgt Ion:152 Resp: 386248

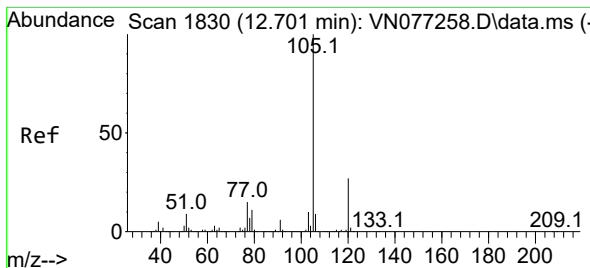
Ion Ratio Lower Upper

152 100

115 77.2 32.1 96.3

150 202.4 0.0 354.8





#73

Isopropylbenzene

Concen: 14.935 ug/l

RT: 12.695 min Scan# 1829

Delta R.T. -0.006 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

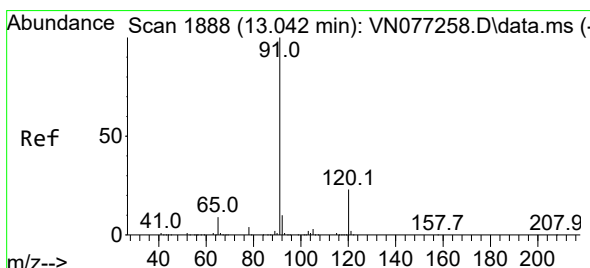
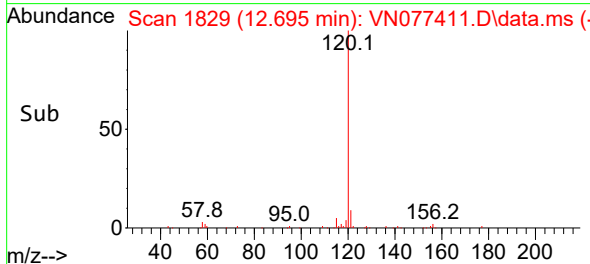
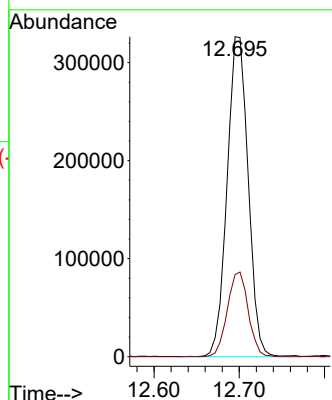
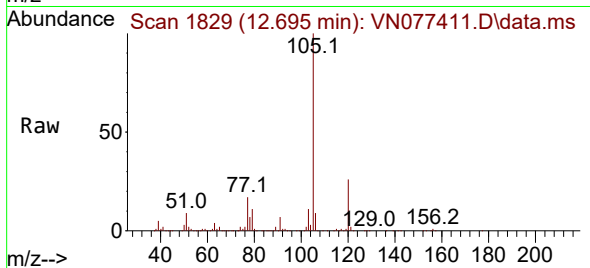
SPA-5WC-23-04

Tgt Ion:105 Resp: 560294

Ion Ratio Lower Upper

105 100

120 26.2 13.2 39.6



#78

n-propylbenzene

Concen: 17.903 ug/l

RT: 13.036 min Scan# 1887

Delta R.T. -0.006 min

Lab File: VN077411.D

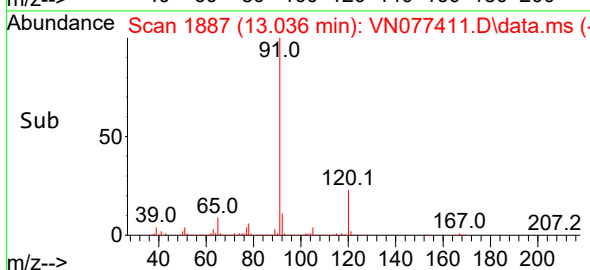
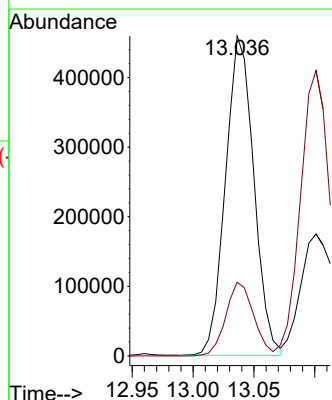
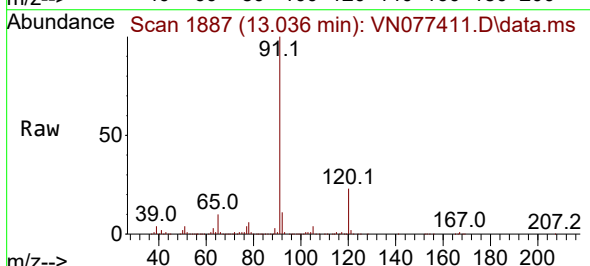
Acq: 20 Apr 2023 19:36

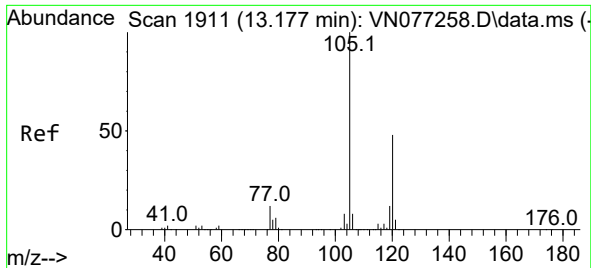
Tgt Ion: 91 Resp: 742130

Ion Ratio Lower Upper

91 100

120 22.7 11.5 34.5

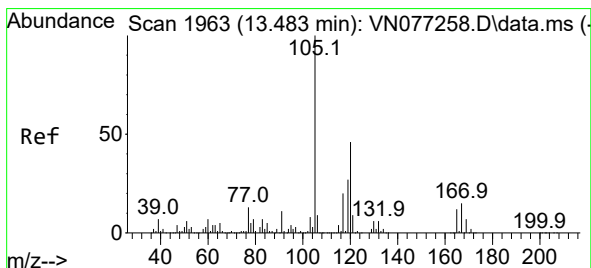
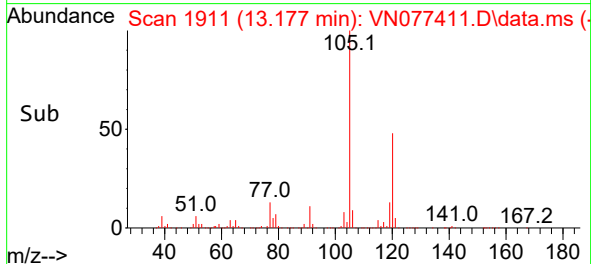
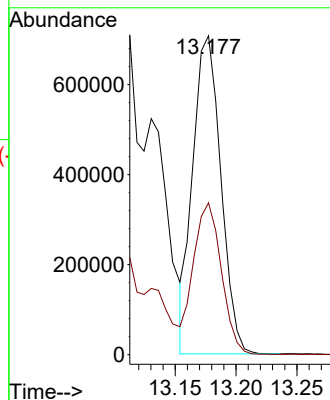
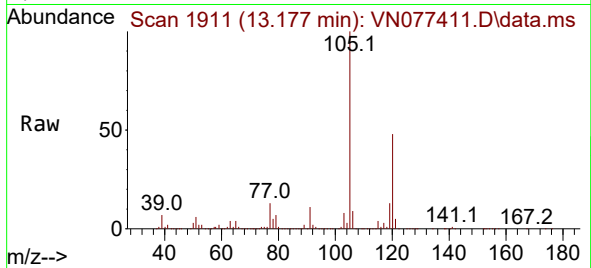




#80
 1,3,5-Trimethylbenzene
 Concen: 37.746 ug/l
 RT: 13.177 min Scan# 1911
 Delta R.T. 0.000 min
 Lab File: VN077411.D
 Acq: 20 Apr 2023 19:36

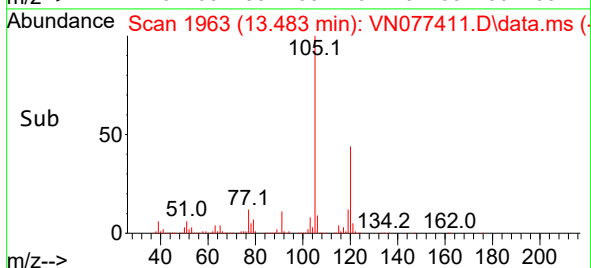
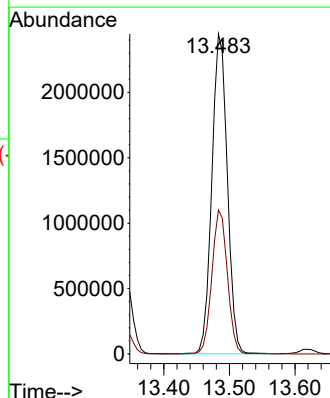
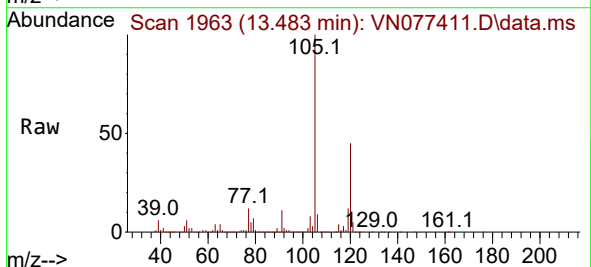
Instrument :
 MSVOA_N
 ClientSampleId :
 SPA-5WC-23-04

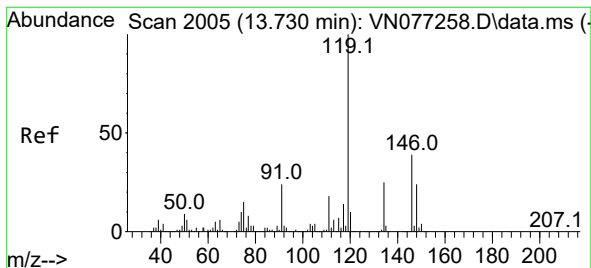
Tgt Ion:105 Resp: 1131020
 Ion Ratio Lower Upper
 105 100
 120 47.9 24.3 73.0



#84
 1,2,4-Trimethylbenzene
 Concen: 135.248 ug/l
 RT: 13.483 min Scan# 1963
 Delta R.T. 0.000 min
 Lab File: VN077411.D
 Acq: 20 Apr 2023 19:36

Tgt Ion:105 Resp: 4003707
 Ion Ratio Lower Upper
 105 100
 120 45.2 22.5 67.5





#86

p-Isopropyltoluene

Concen: 10.244 ug/l

RT: 13.730 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

SPA-5WC-23-04

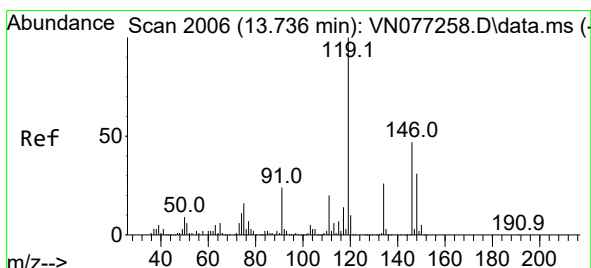
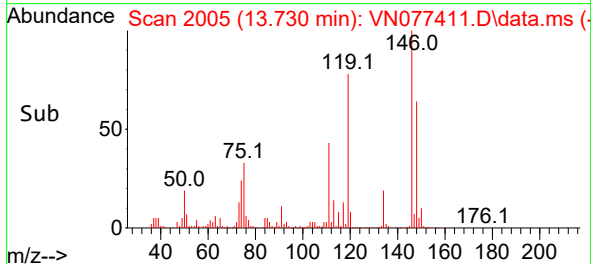
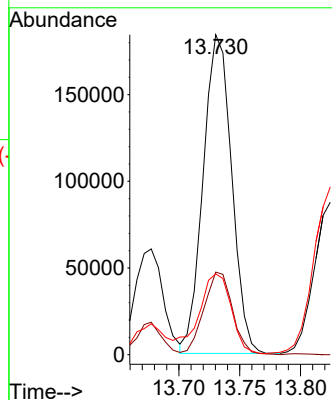
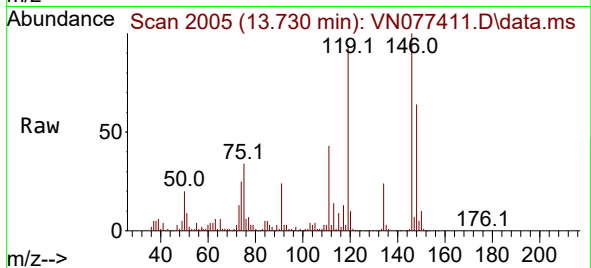
Tgt Ion:119 Resp: 299259

Ion Ratio Lower Upper

119 100

134 26.0 12.9 38.6

91 28.2 12.3 36.8



#87

1,3-Dichlorobenzene

Concen: 26.954 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

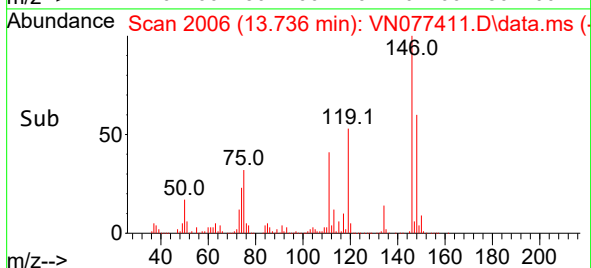
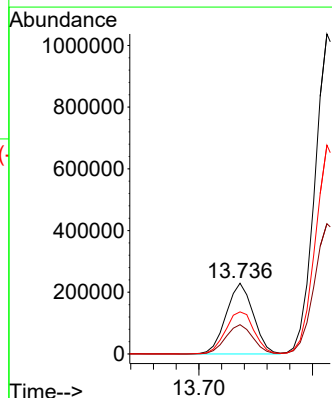
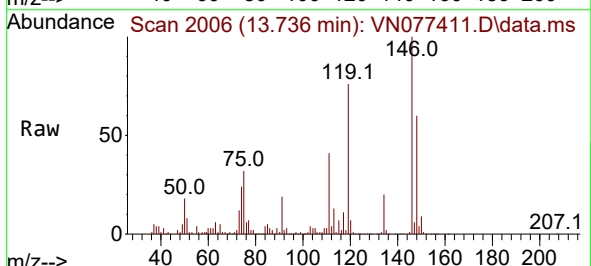
Tgt Ion:146 Resp: 380387

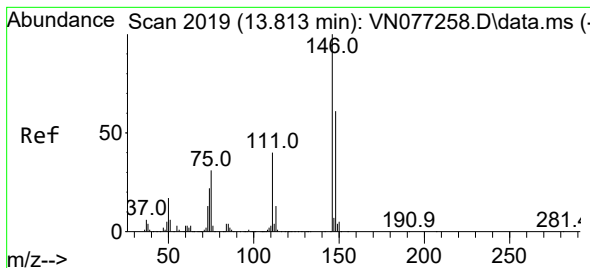
Ion Ratio Lower Upper

146 100

111 41.7 21.8 65.4

148 62.8 31.7 95.1





#88

1,4-Dichlorobenzene

Concen: 127.065 ug/l

RT: 13.813 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

Instrument :

MSVOA_N

ClientSampleId :

SPA-5WC-23-04

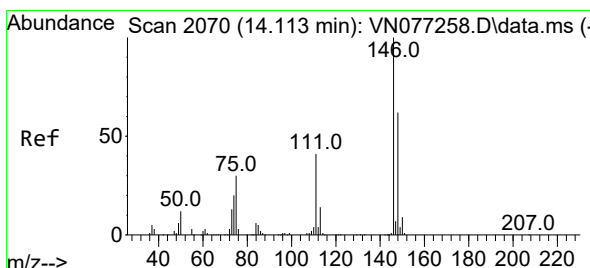
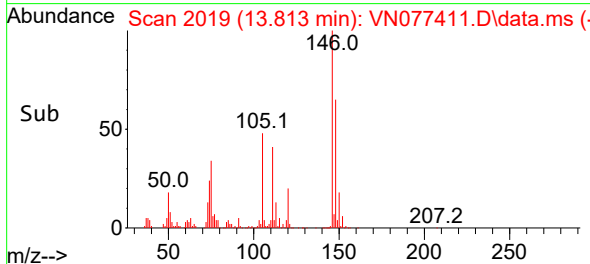
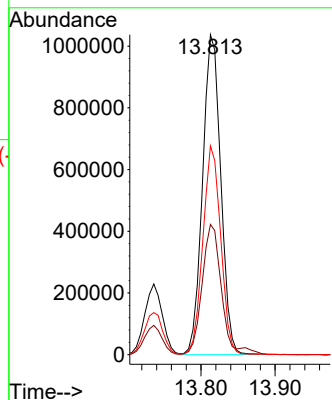
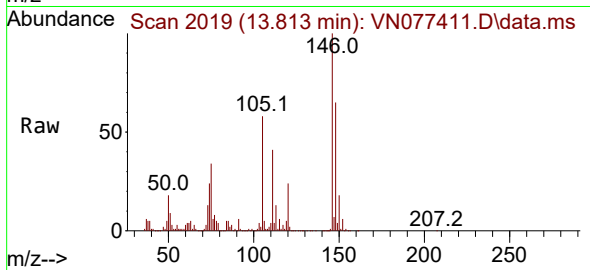
Tgt Ion:146 Resp: 1768372

Ion Ratio Lower Upper

146 100

111 43.2 20.4 61.2

148 64.1 31.6 95.0



#91

1,2-Dichlorobenzene

Concen: 141.169 ug/l

RT: 14.107 min Scan# 2069

Delta R.T. -0.006 min

Lab File: VN077411.D

Acq: 20 Apr 2023 19:36

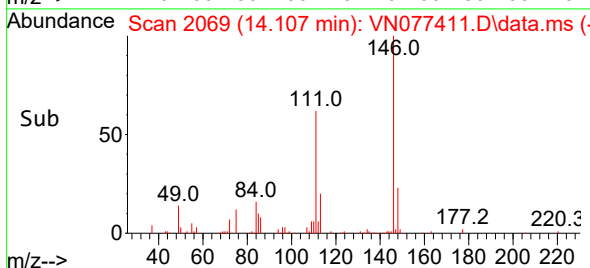
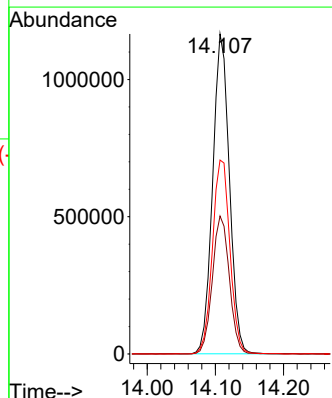
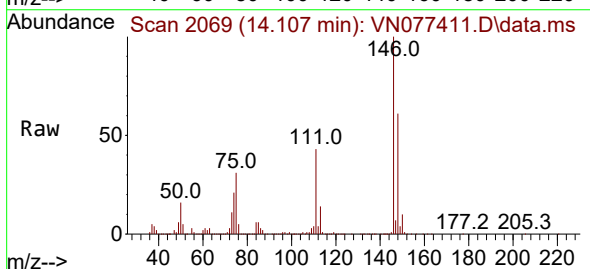
Tgt Ion:146 Resp: 1993045

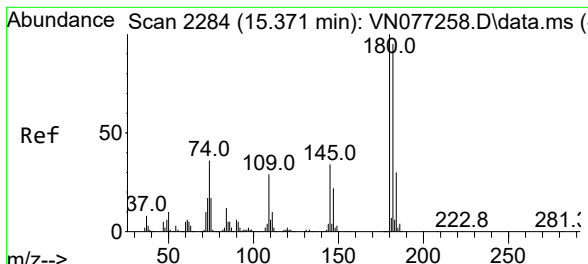
Ion Ratio Lower Upper

146 100

111 43.8 21.9 65.5

148 63.4 31.9 95.5

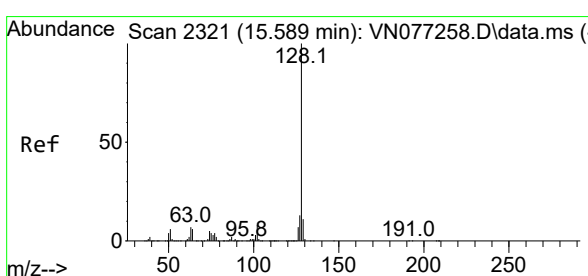
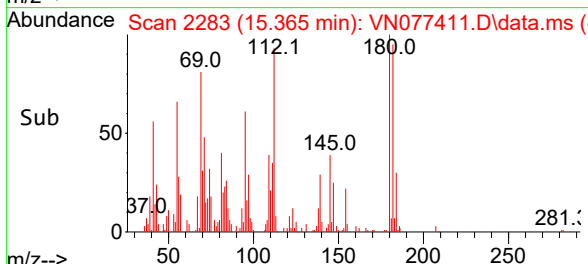
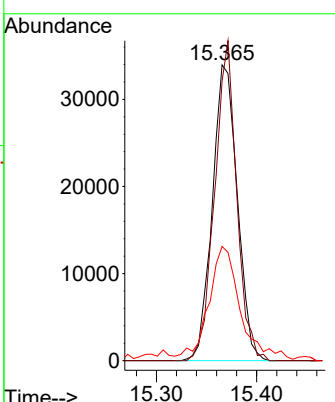
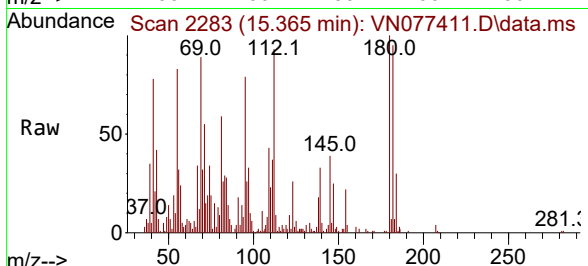




#93
 1,2,4-Trichlorobenzene
 Concen: 11.506 ug/l
 RT: 15.365 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN077411.D
 Acq: 20 Apr 2023 19:36

Instrument :
 MSVOA_N
 ClientSampleId :
 SPA-5WC-23-04

Tgt Ion:	180	Resp:	58641
Ion Ratio	Lower	Upper	
180	100		
182	95.3	46.7	140.0
145	49.6	16.6	49.8



#95
 Naphthalene
 Concen: 114.079 ug/l
 RT: 15.589 min Scan# 2321
 Delta R.T. 0.000 min
 Lab File: VN077411.D
 Acq: 20 Apr 2023 19:36

Tgt Ion:	128	Resp:	2184068
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.4
129	10.5	8.9	13.3

