

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042023\
 Data File : VN077410.D
 Acq On : 20 Apr 2023 19:12
 Operator : JC\MD
 Sample : 02386-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPA-4WC-23-04

Quant Time: Apr 21 02:41:48 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)

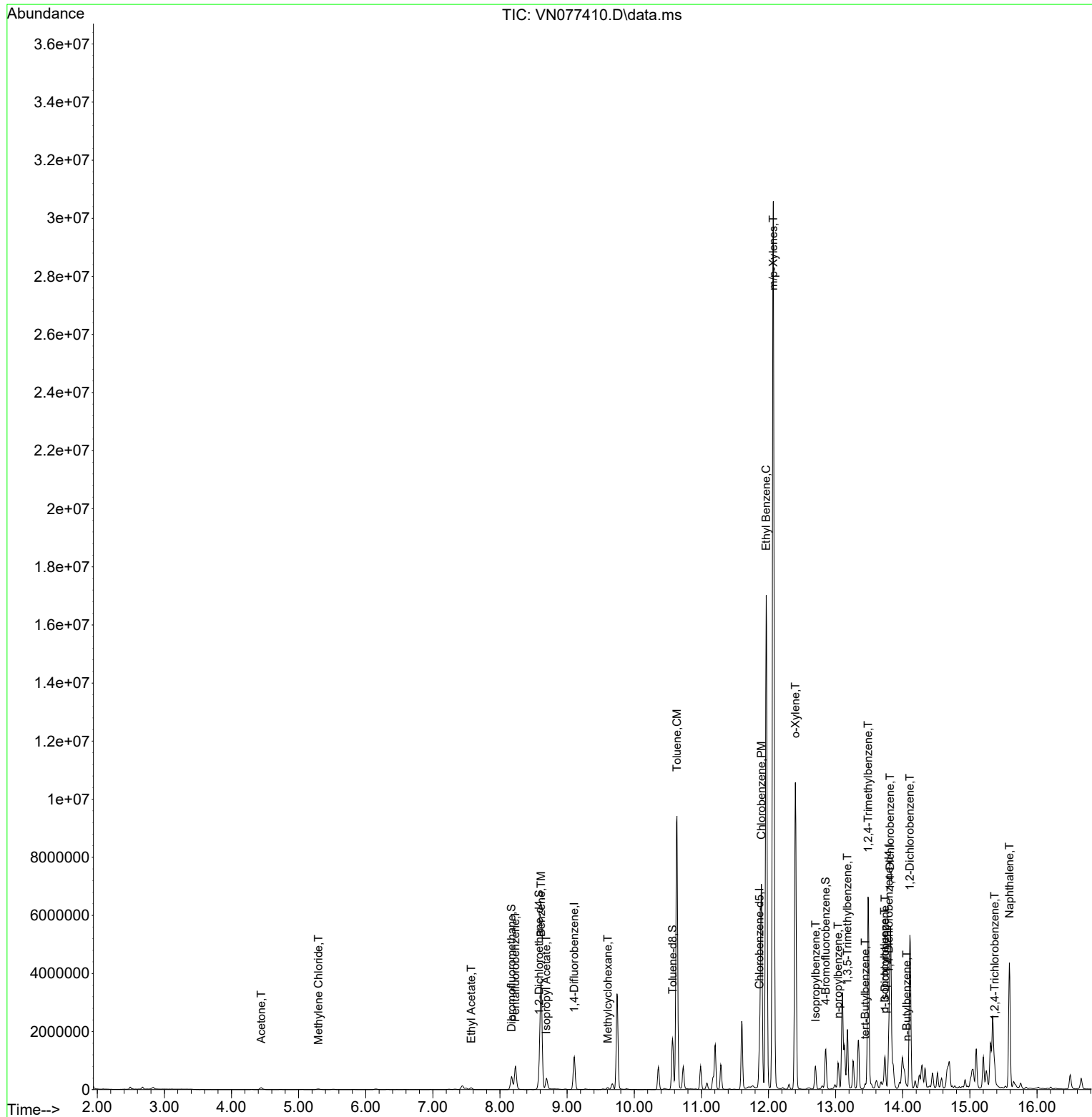
Internal Standards						
1) Pentafluorobenzene	8.231	168	547132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1053697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	985447	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	439773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	352928	47.196	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.400%		
35) Dibromofluoromethane	8.172	113	311105	46.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.240%		
50) Toluene-d8	10.572	98	1274042	46.917	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.840%		
62) 4-Bromofluorobenzene	12.854	95	475642	52.666	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	105.340%		
Target Compounds					Qvalue	
16) Acetone	4.443	43	121468	44.056	ug/l	97
20) Methylene Chloride	5.296	84	20292	2.606	ug/l #	77
37) Ethyl Acetate	7.572	43	89058	9.977	ug/l #	91
39) Methylcyclohexane	9.607	83	31940	2.374	ug/l	91
40) Benzene	8.613	78	4013614	128.980	ug/l	99
43) Isopropyl Acetate	8.689	43	418478	25.407	ug/l #	91
52) Toluene	10.636	92	4477018	219.805	ug/l	99
65) Chlorobenzene	11.895	112	4175188	192.442	ug/l	97
67) Ethyl Benzene	11.966	91	12945550	323.352	ug/l	100
68) m/p-Xylenes	12.072	106	9940749	631.929	ug/l	86
69) o-Xylene	12.401	106	3118513	200.950	ug/l	99
73) Isopropylbenzene	12.701	105	544990	12.759	ug/l	100
78) n-propylbenzene	13.036	91	709334	15.029	ug/l	100
80) 1,3,5-Trimethylbenzene	13.177	105	1115715	32.703	ug/l	100
83) tert-Butylbenzene	13.442	119	82788	2.726	ug/l	96
84) 1,2,4-Trimethylbenzene	13.483	105	3997022	118.588	ug/l	100
86) p-Isopropyltoluene	13.730	119	243193	7.312	ug/l	99
87) 1,3-Dichlorobenzene	13.736	146	303834	18.909	ug/l	98
88) 1,4-Dichlorobenzene	13.813	146	1356248	85.591	ug/l	99
89) n-Butylbenzene	14.060	91	55657	2.016	ug/l #	81
91) 1,2-Dichlorobenzene	14.107	146	2203493	137.080	ug/l	100
93) 1,2,4-Trichlorobenzene	15.371	180	159765	27.533	ug/l	95
95) Naphthalene	15.589	128	2556574	117.284	ug/l	100

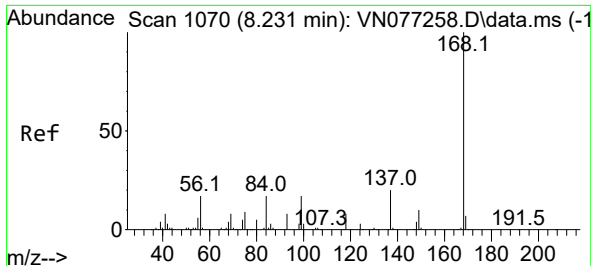
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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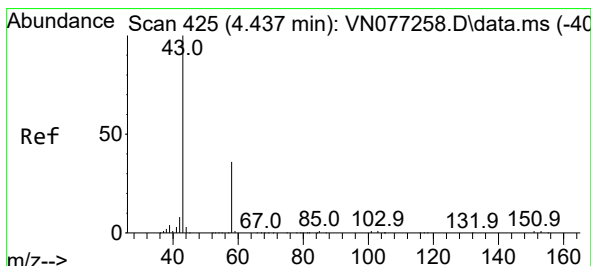
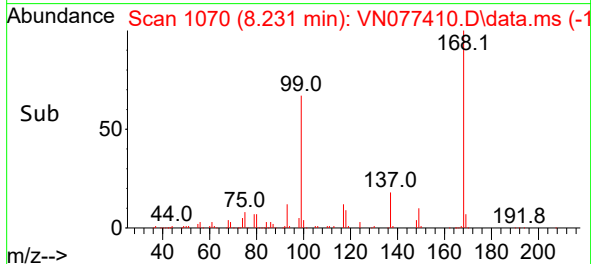
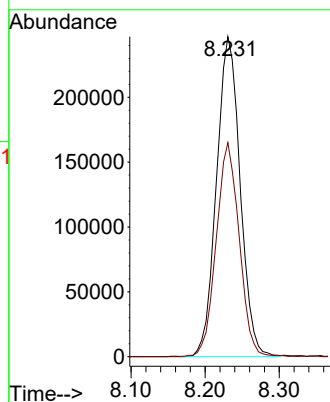
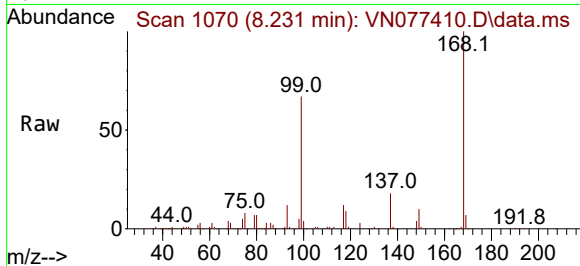




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

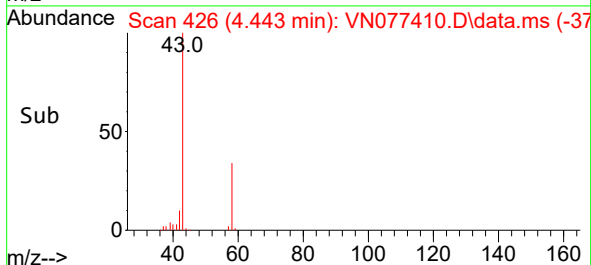
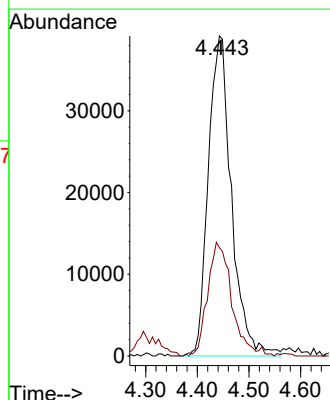
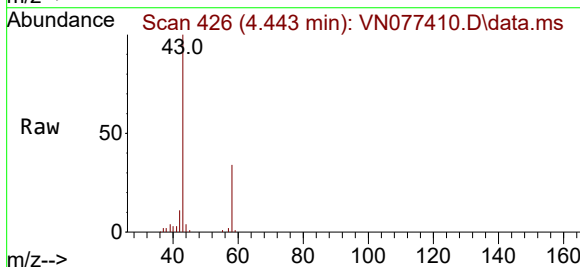
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SPA-4WC-23-04

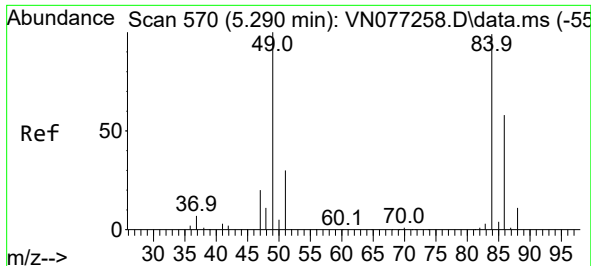
Tgt Ion:168 Resp: 547132
Ion Ratio Lower Upper
168 100
99 66.8 50.6 75.8



#16
Acetone
Concen: 44.056 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 43 Resp: 121468
Ion Ratio Lower Upper
43 100
58 34.3 29.0 43.6

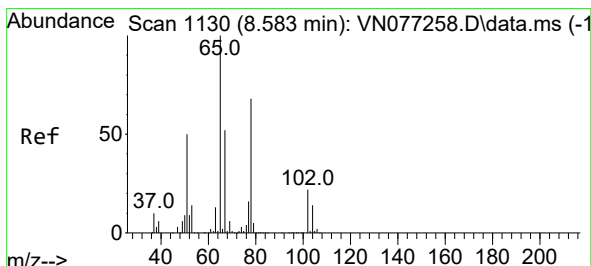
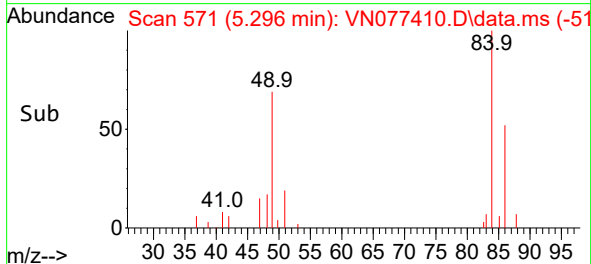
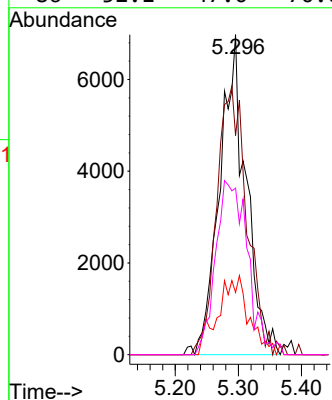
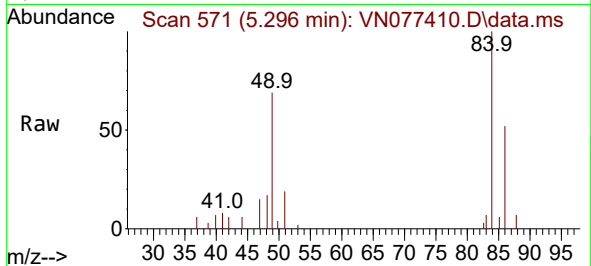




#20
Methylene Chloride
Concen: 2.606 ug/l
RT: 5.296 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

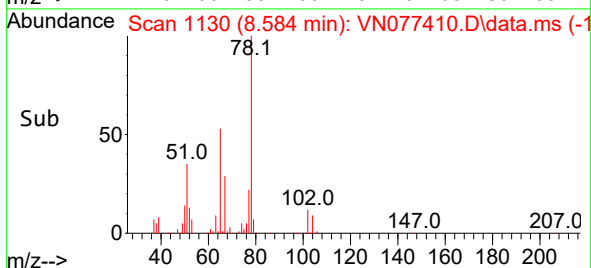
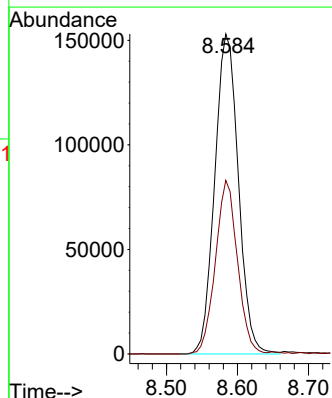
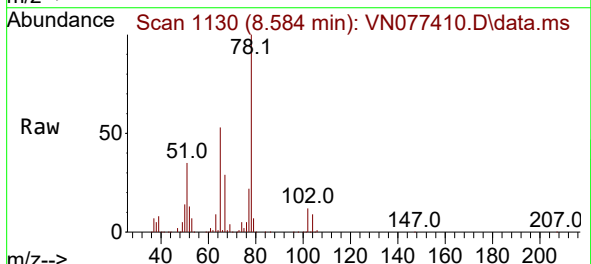
Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04

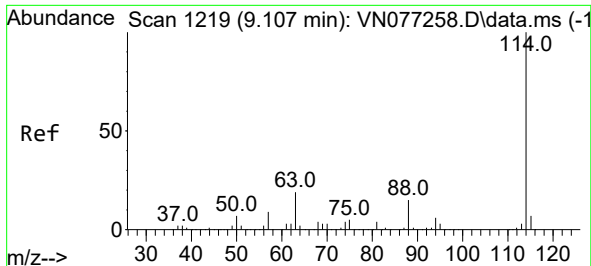
Tgt Ion: 84 Resp: 20292
Ion Ratio Lower Upper
84 100
49 68.5 80.6 121.0#
51 19.5 24.4 36.6#
86 52.1 47.0 70.6



#33
1,2-Dichloroethane-d4
Concen: 47.196 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 65 Resp: 352928
Ion Ratio Lower Upper
65 100
67 50.7 0.0 108.8

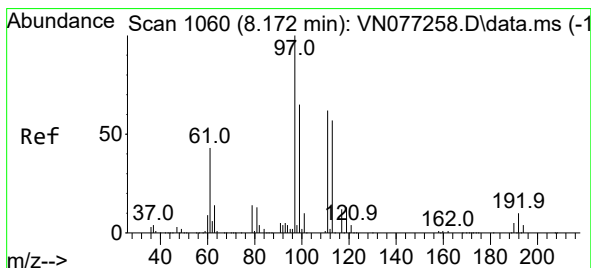
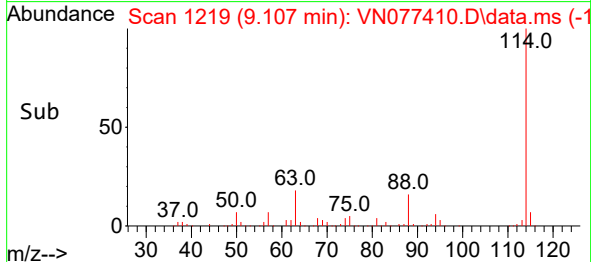
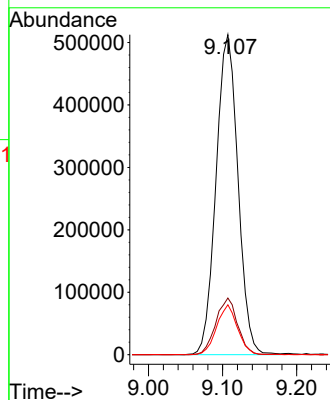
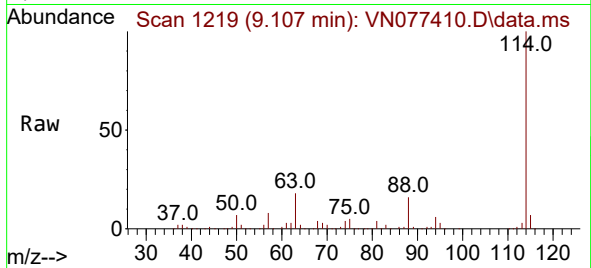




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

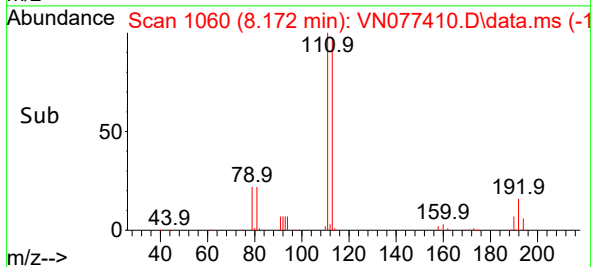
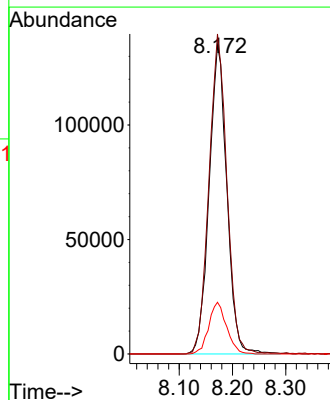
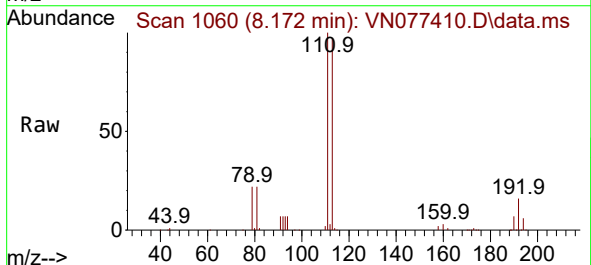
Instrument :
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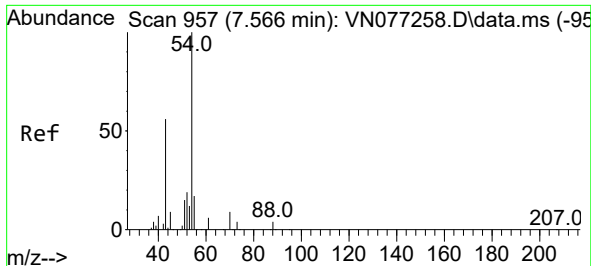
Tgt Ion:114 Resp: 1053697
Ion Ratio Lower Upper
114 100
63 17.7 0.0 37.8
88 15.6 0.0 29.4



#35
Dibromofluoromethane
Concen: 46.121 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion:113 Resp: 311105
Ion Ratio Lower Upper
113 100
111 104.9 83.4 125.0
192 16.9 13.5 20.3

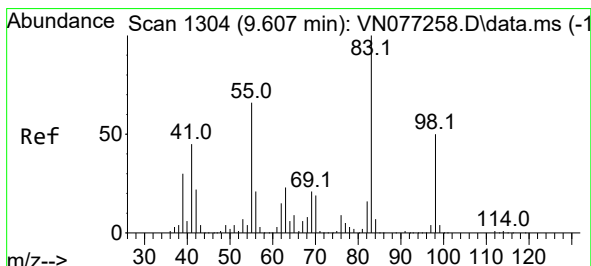
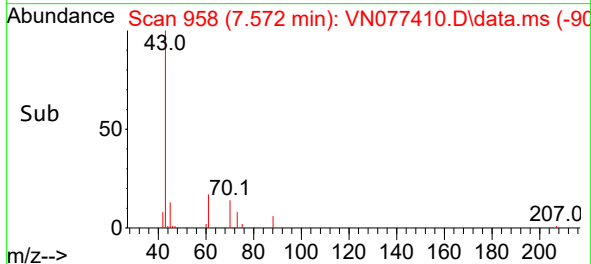
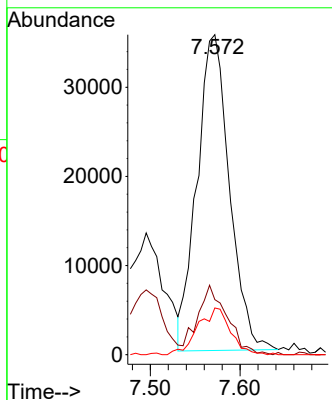
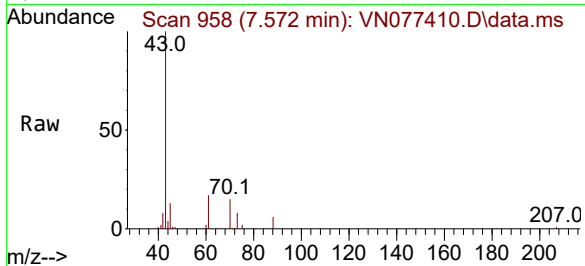




#37
Ethyl Acetate
Concen: 9.977 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

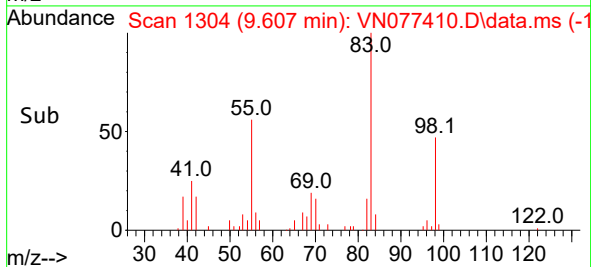
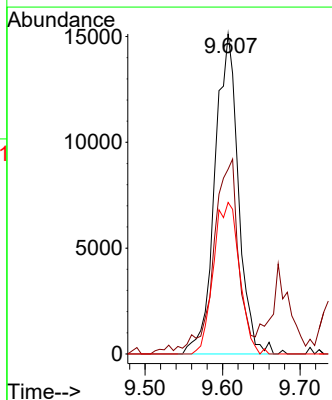
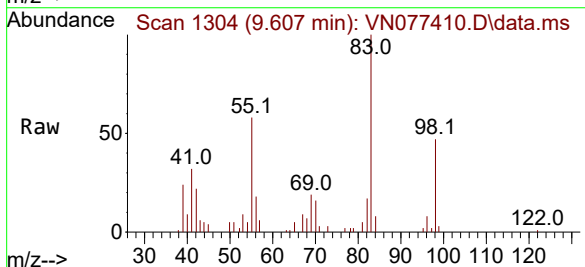
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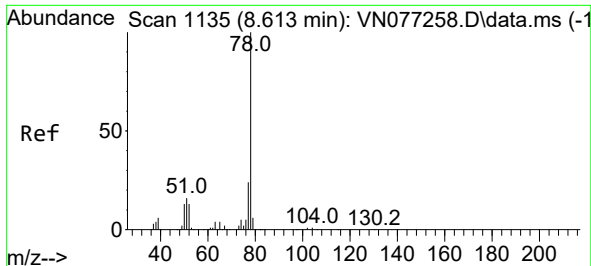
Tgt Ion: 43 Resp: 89058
Ion Ratio Lower Upper
43 100
61 20.0 12.2 18.2#
70 14.8 10.0 15.0



#39
Methylcyclohexane
Concen: 2.374 ug/l
RT: 9.607 min Scan# 1304
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 83 Resp: 31940
Ion Ratio Lower Upper
83 100
55 55.4 52.4 78.6
98 47.4 39.8 59.6

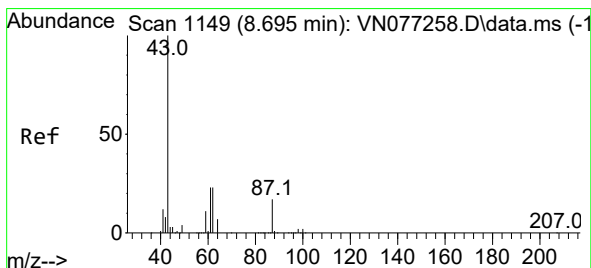
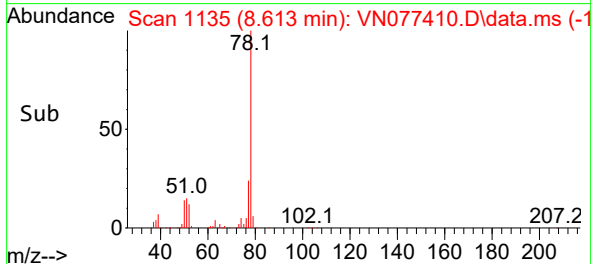
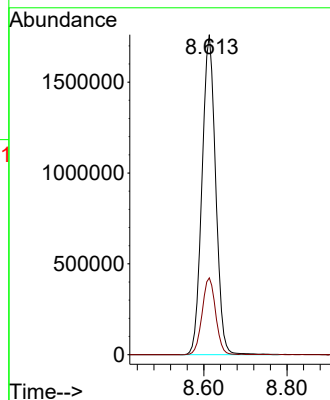
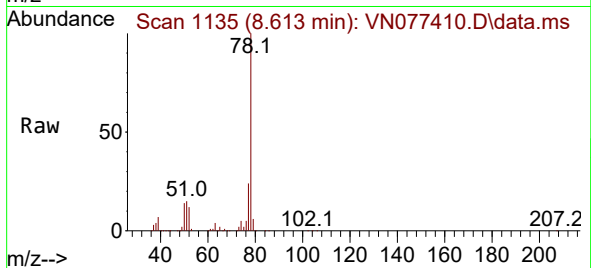




#40
Benzene
Concen: 128.980 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

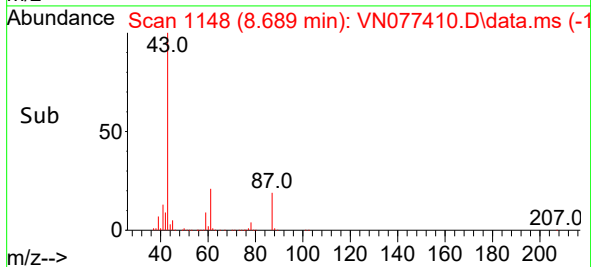
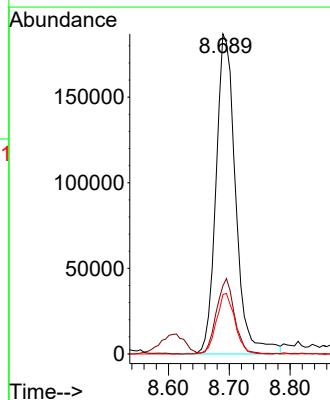
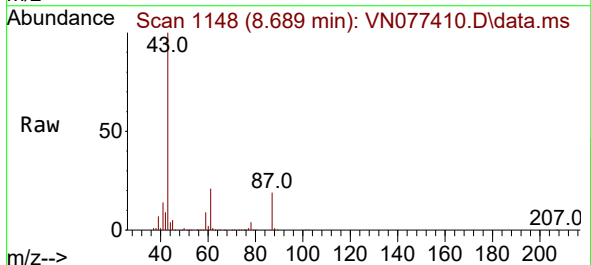
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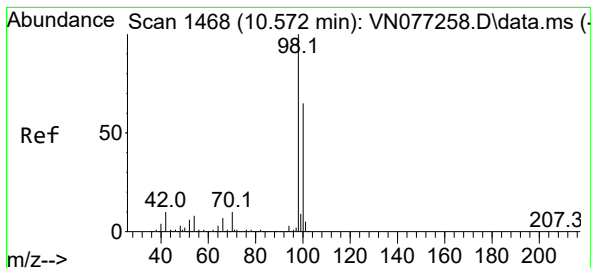
Tgt Ion: 78 Resp: 4013614
Ion Ratio Lower Upper
78 100
77 24.0 19.5 29.3



#43
Isopropyl Acetate
Concen: 25.407 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 43 Resp: 418478
Ion Ratio Lower Upper
43 100
61 21.3 22.7 34.1#
87 17.7 13.6 20.4

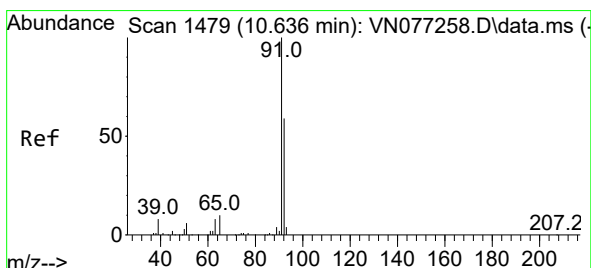
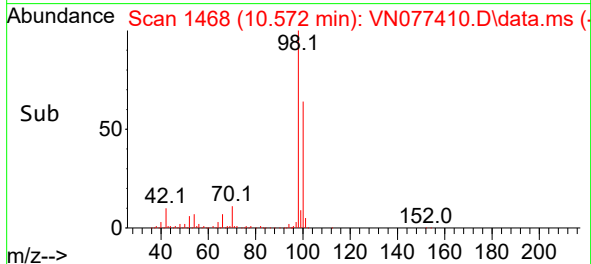
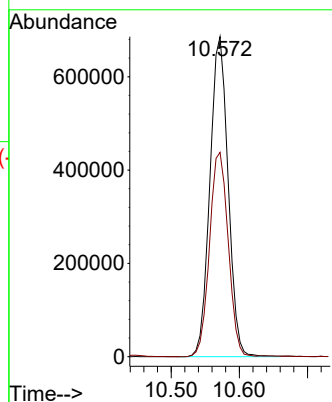
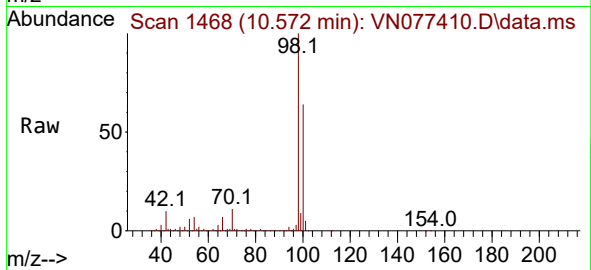




#50
Toluene-d8
Concen: 46.917 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

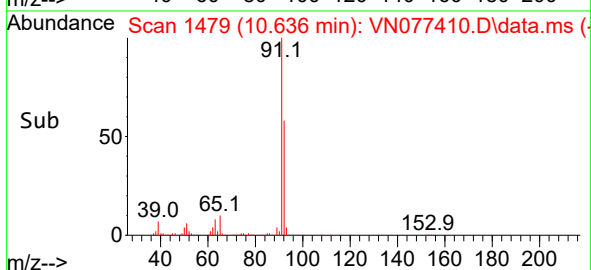
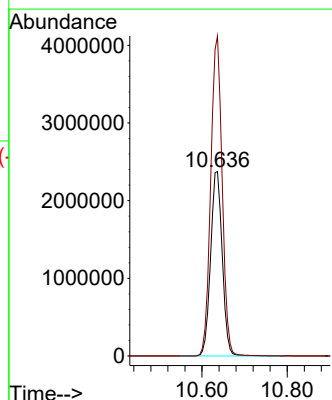
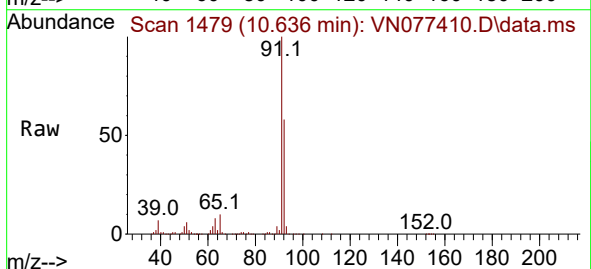
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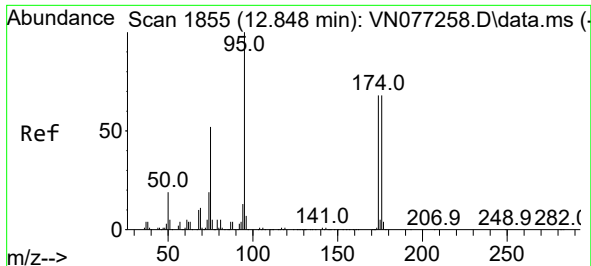
Tgt Ion: 98 Resp: 1274042
Ion Ratio Lower Upper
98 100
100 66.0 51.3 76.9



#52
Toluene
Concen: 219.805 ug/l
RT: 10.636 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 92 Resp: 4477018
Ion Ratio Lower Upper
92 100
91 171.0 138.0 207.0

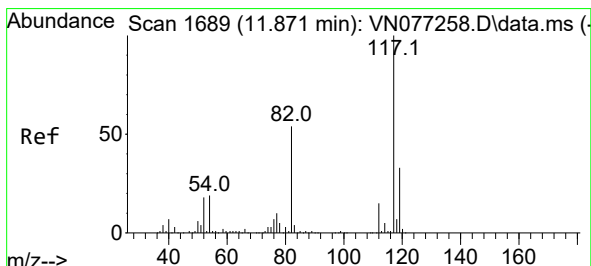
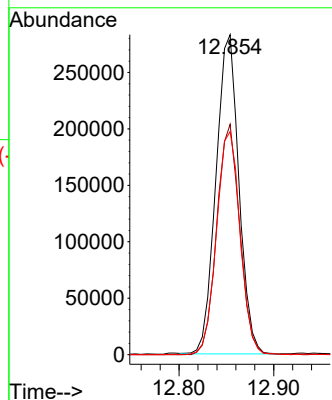
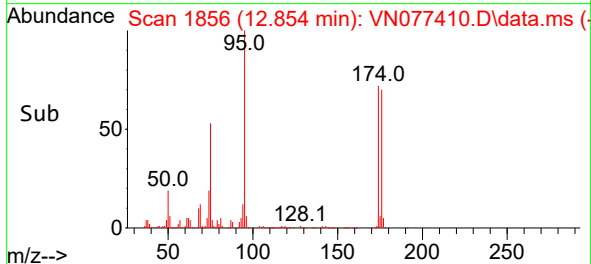
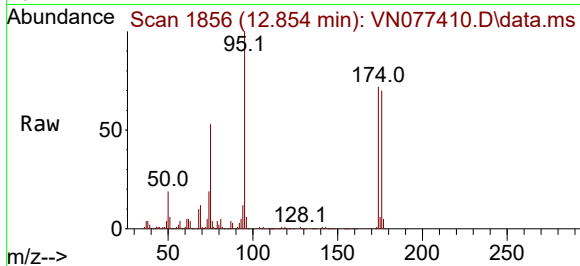




#62
4-Bromofluorobenzene
Concen: 52.666 ug/l
RT: 12.854 min Scan# 1185
Delta R.T. 0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

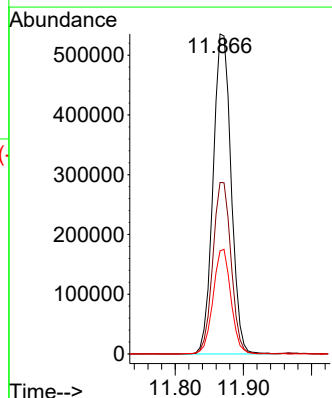
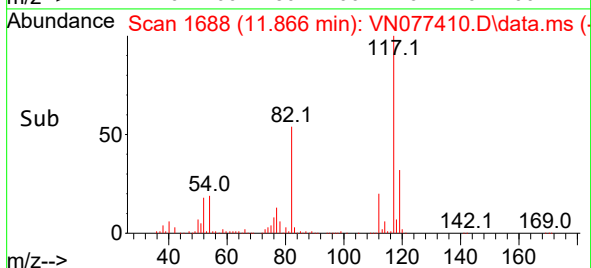
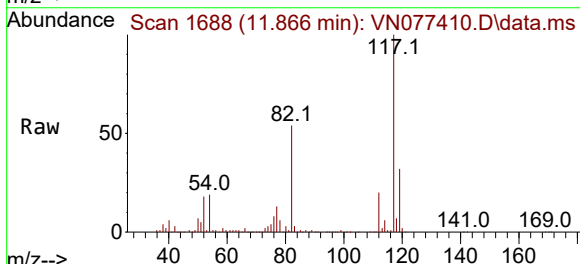
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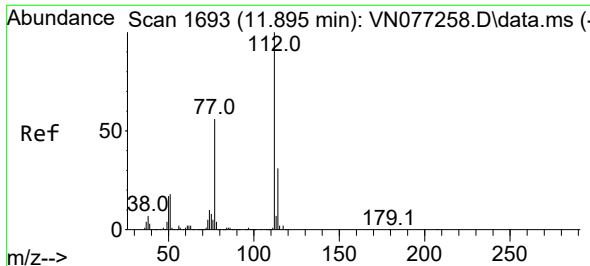
Tgt Ion: 95 Resp: 475642
Ion Ratio Lower Upper
95 100
174 72.2 0.0 146.8
176 71.8 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.005 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 117 Resp: 985447
Ion Ratio Lower Upper
117 100
82 53.6 42.9 64.3
119 32.2 26.2 39.4

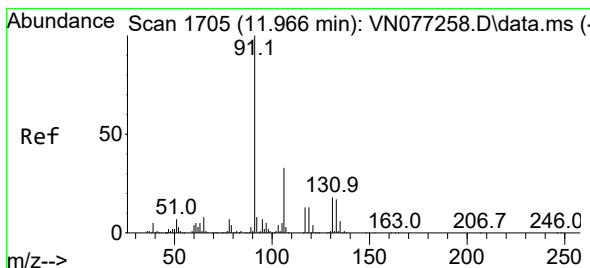
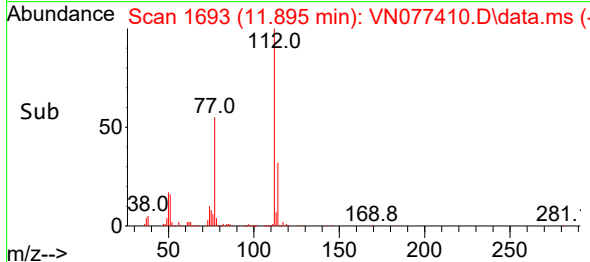
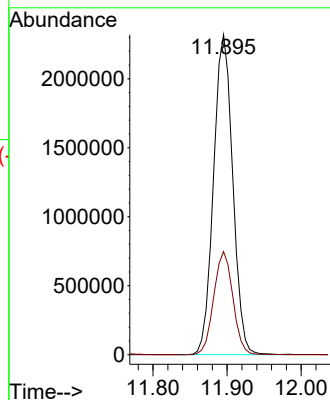
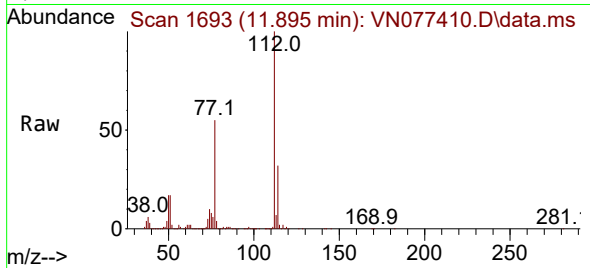




#65
Chlorobenzene
Concen: 192.442 ug/l
RT: 11.895 min Scan# 1693
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

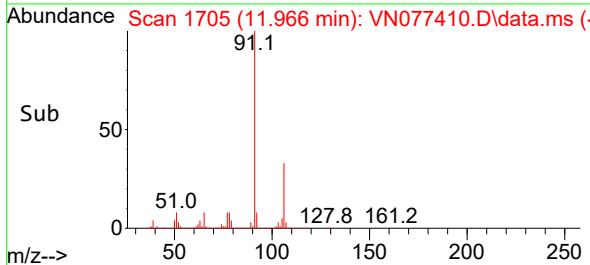
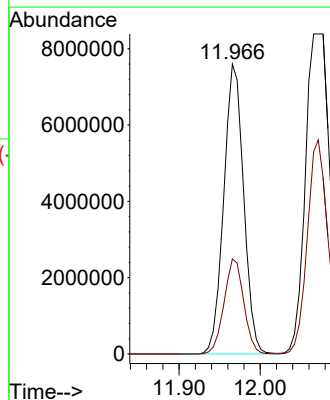
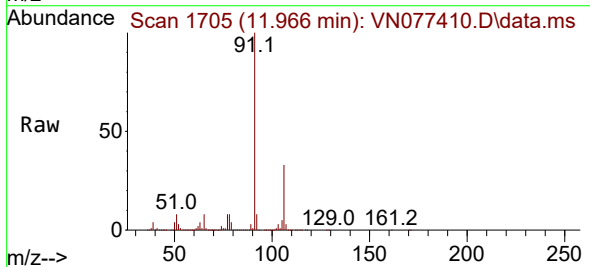
Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04

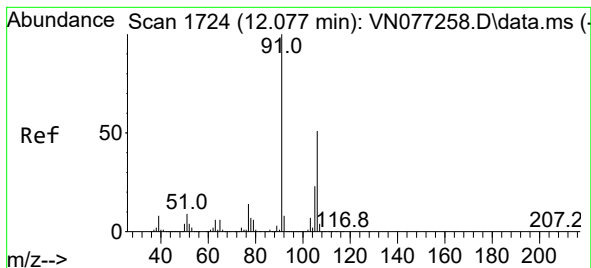
Tgt Ion:112 Resp: 4175188
Ion Ratio Lower Upper
112 100
114 32.2 24.6 36.8



#67
Ethyl Benzene
Concen: 323.352 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion: 91 Resp:12945550
Ion Ratio Lower Upper
91 100
106 32.8 26.2 39.2

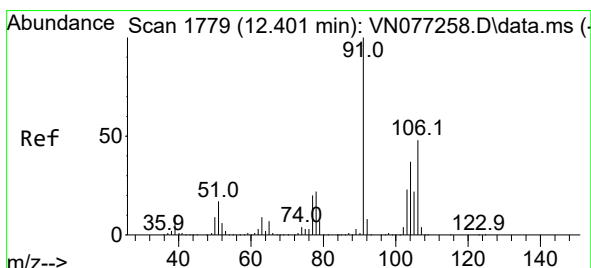
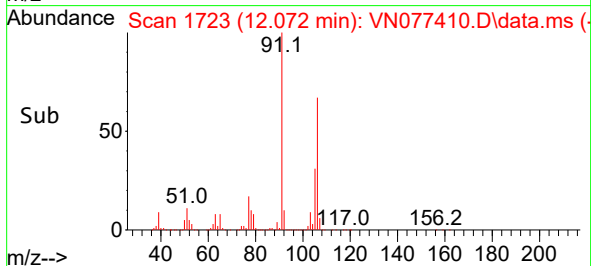
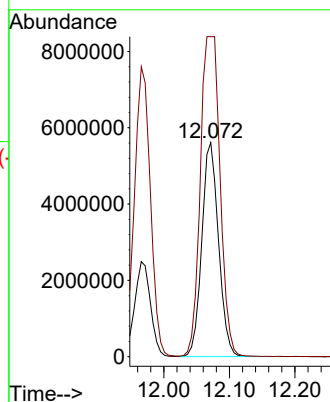
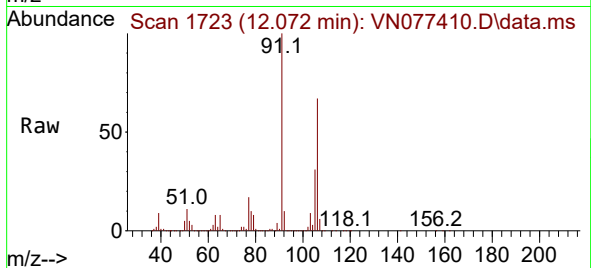




#68
m/p-Xylenes
Concen: 631.929 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. -0.005 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

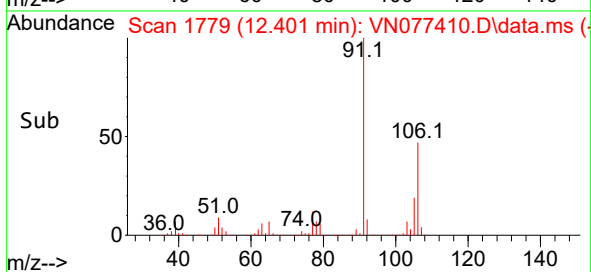
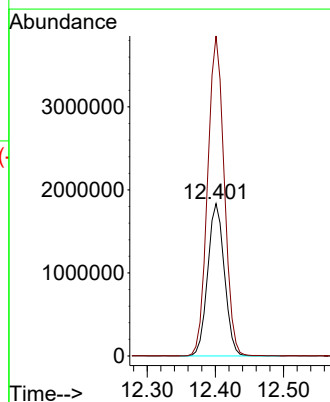
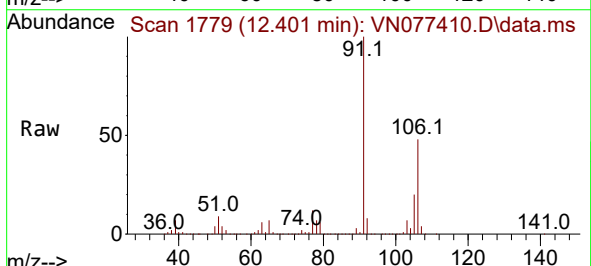
Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04

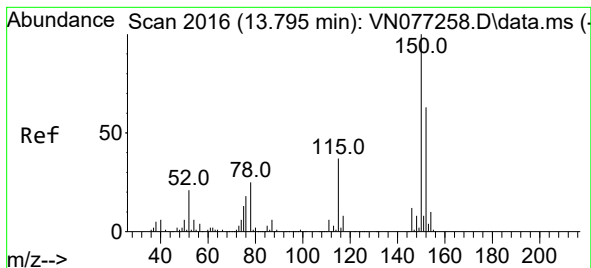
Tgt Ion:106 Resp: 9940749
Ion Ratio Lower Upper
106 100
91 177.3 158.7 238.1



#69
o-Xylene
Concen: 200.950 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion:106 Resp: 3118513
Ion Ratio Lower Upper
106 100
91 209.2 104.0 312.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

Instrument :

MSVOA_N

ClientSampleId :

SPA-4WC-23-04

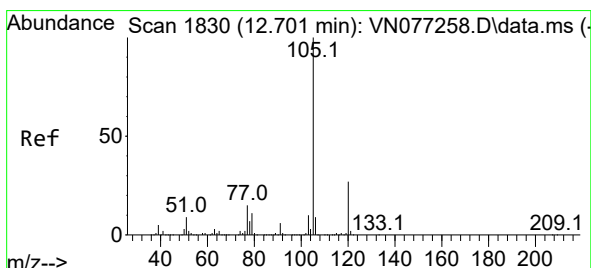
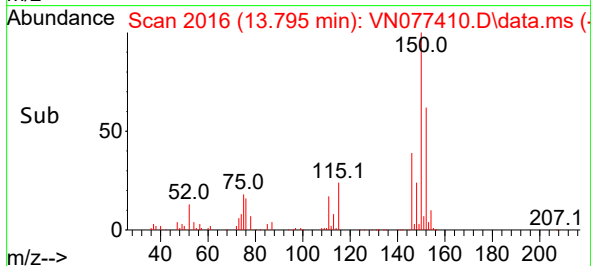
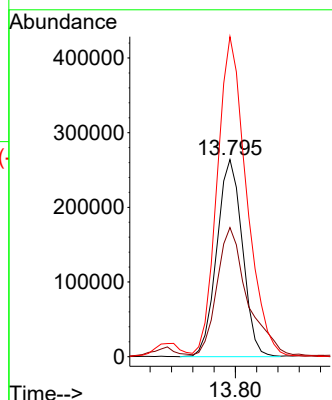
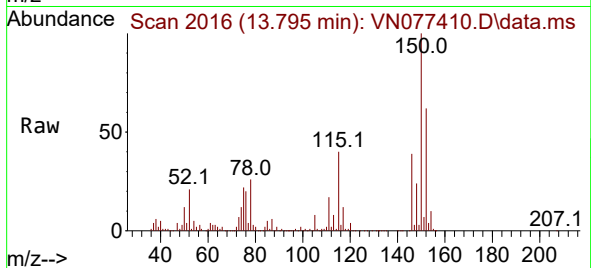
Tgt Ion:152 Resp: 439773

Ion Ratio Lower Upper

152 100

115 77.4 32.1 96.3

150 186.4 0.0 354.8



#73

Isopropylbenzene

Concen: 12.759 ug/l

RT: 12.701 min Scan# 1830

Delta R.T. -0.000 min

Lab File: VN077410.D

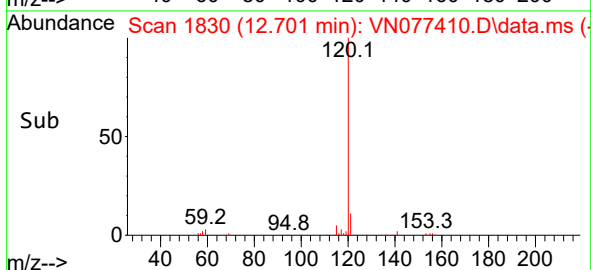
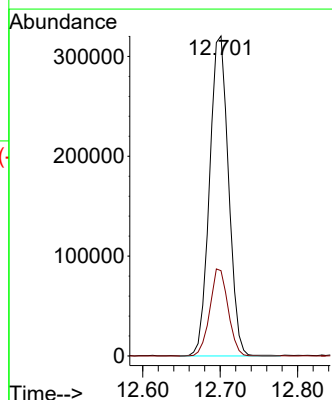
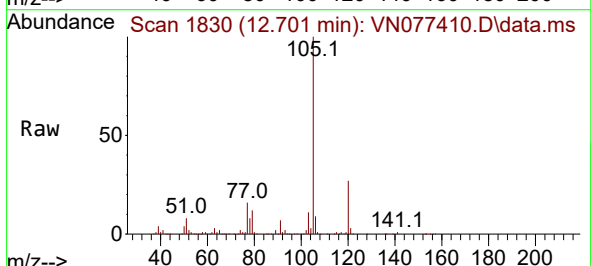
Acq: 20 Apr 2023 19:12

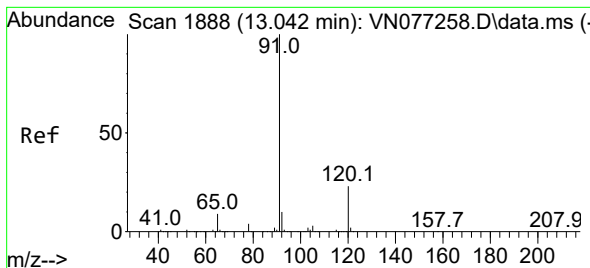
Tgt Ion:105 Resp: 544990

Ion Ratio Lower Upper

105 100

120 26.2 13.2 39.6





#78

n-propylbenzene

Concen: 15.029 ug/l

RT: 13.036 min Scan# 1887

Delta R.T. -0.006 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

Instrument :

MSVOA_N

ClientSampleId :

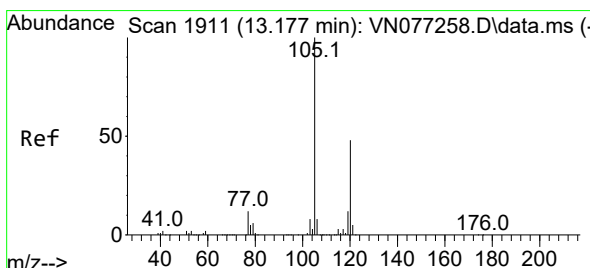
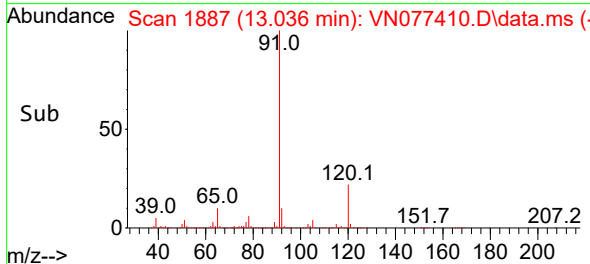
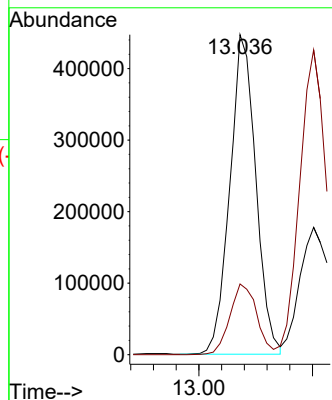
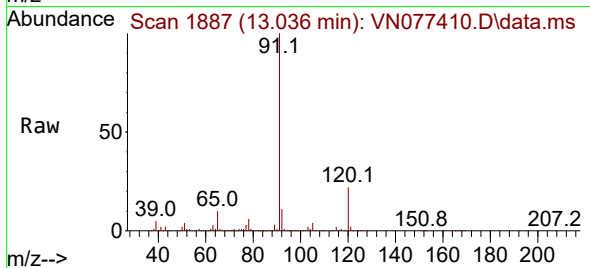
SPA-4WC-23-04

Tgt Ion: 91 Resp: 709334

Ion Ratio Lower Upper

91 100

120 22.9 11.5 34.5



#80

1,3,5-Trimethylbenzene

Concen: 32.703 ug/l

RT: 13.177 min Scan# 1911

Delta R.T. 0.000 min

Lab File: VN077410.D

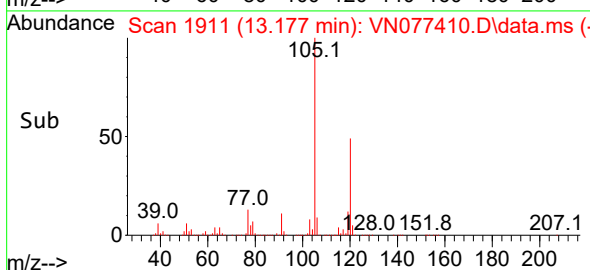
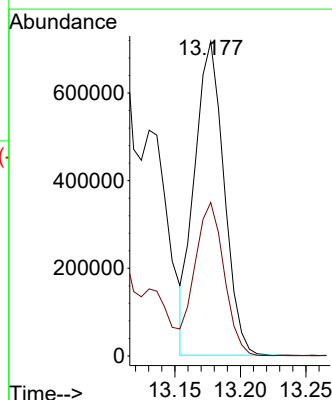
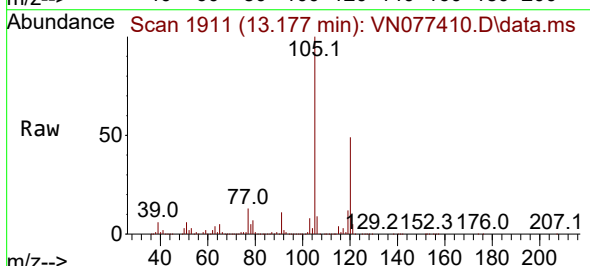
Acq: 20 Apr 2023 19:12

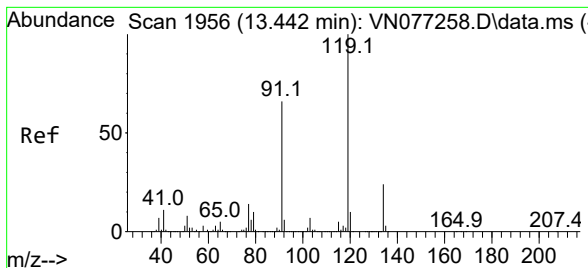
Tgt Ion:105 Resp: 1115715

Ion Ratio Lower Upper

105 100

120 48.4 24.3 73.0

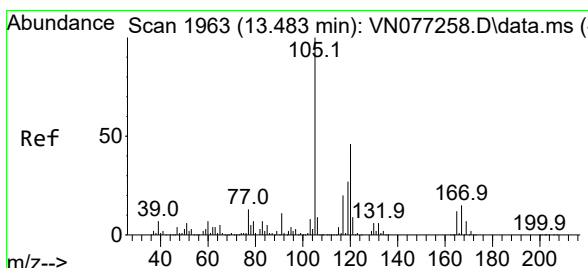
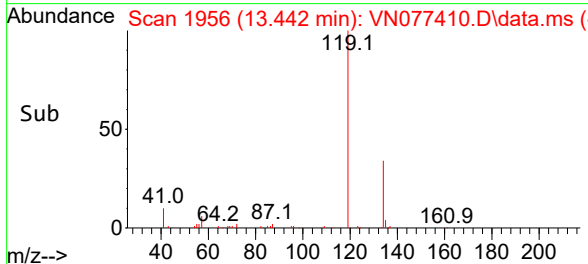
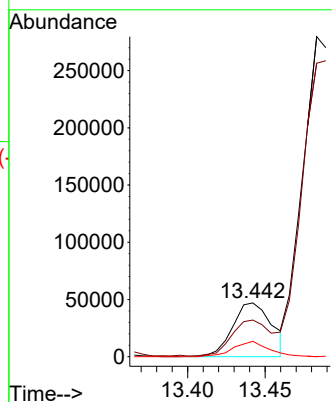
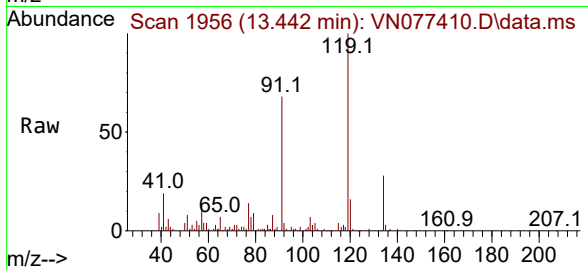




#83
tert-Butylbenzene
Concen: 2.726 ug/l
RT: 13.442 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

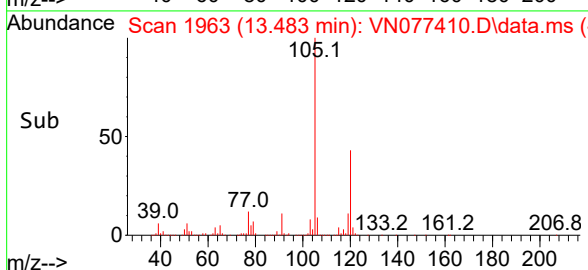
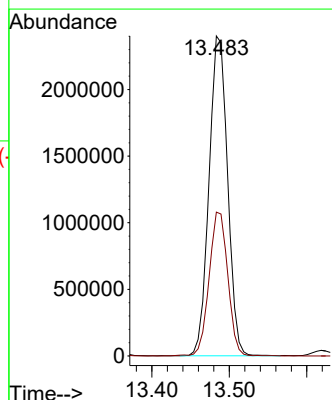
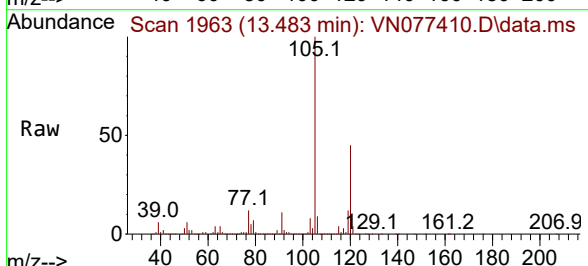
Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04

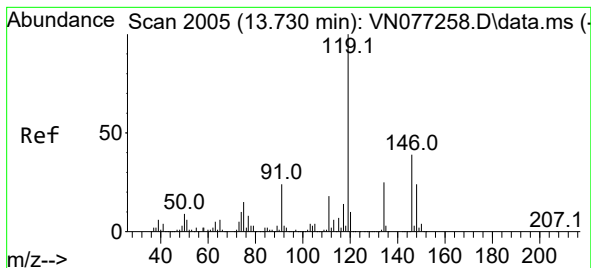
Tgt Ion:119 Resp: 82788
Ion Ratio Lower Upper
119 100
91 62.7 33.5 100.4
134 25.7 13.3 39.9



#84
1,2,4-Trimethylbenzene
Concen: 118.588 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Tgt Ion:105 Resp: 3997022
Ion Ratio Lower Upper
105 100
120 45.3 22.5 67.5





#86

p-Isopropyltoluene

Concen: 7.312 ug/l

RT: 13.730 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

Instrument :

MSVOA_N

ClientSampleId :

SPA-4WC-23-04

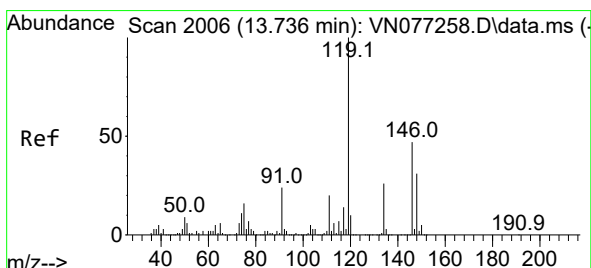
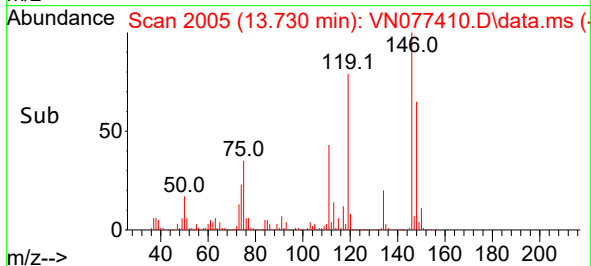
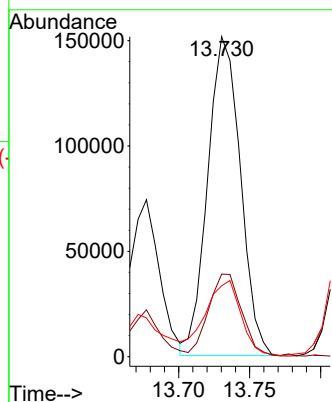
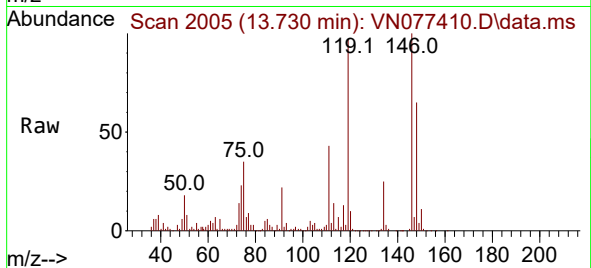
Tgt Ion:119 Resp: 243193

Ion Ratio Lower Upper

119 100

134 25.8 12.9 38.6

91 25.9 12.3 36.8



#87

1,3-Dichlorobenzene

Concen: 18.909 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

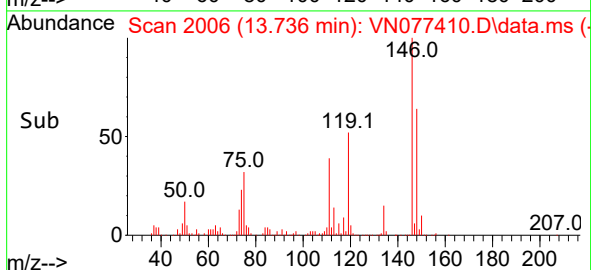
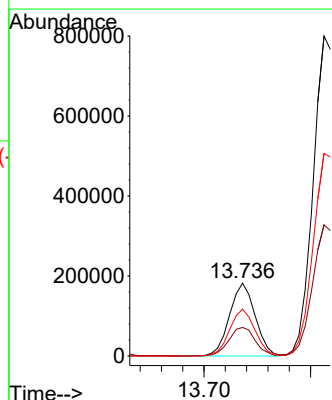
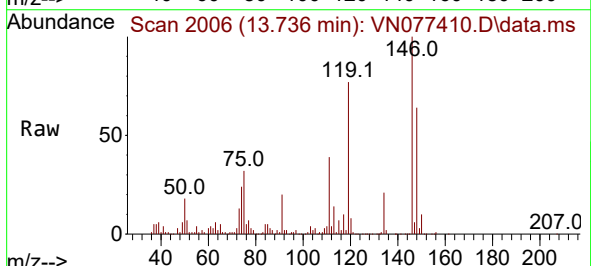
Tgt Ion:146 Resp: 303834

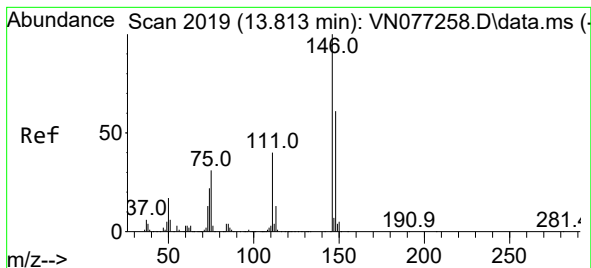
Ion Ratio Lower Upper

146 100

111 40.7 21.8 65.4

148 63.8 31.7 95.1





#88

1,4-Dichlorobenzene

Concen: 85.591 ug/l

RT: 13.813 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

Instrument :

MSVOA_N

ClientSampleId :

SPA-4WC-23-04

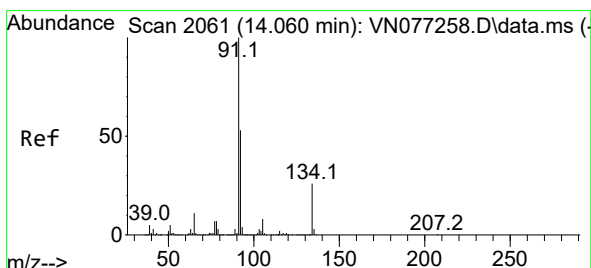
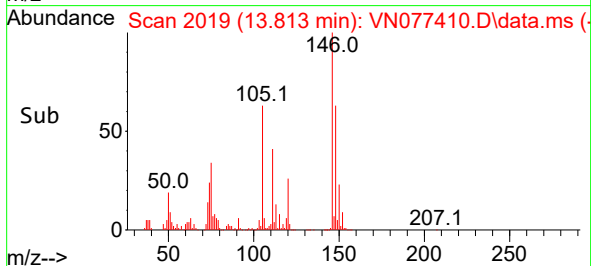
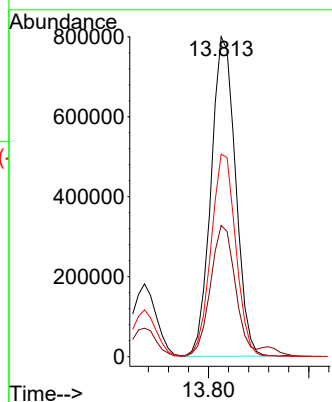
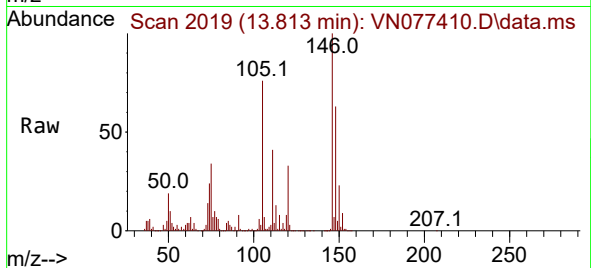
Tgt Ion:146 Resp: 1356248

Ion Ratio Lower Upper

146 100

111 41.4 20.4 61.2

148 64.3 31.6 95.0



#89

n-Butylbenzene

Concen: 2.016 ug/l

RT: 14.060 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VN077410.D

Acq: 20 Apr 2023 19:12

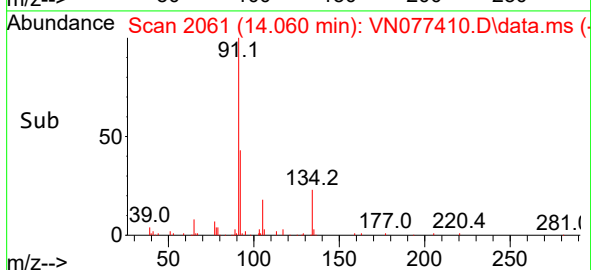
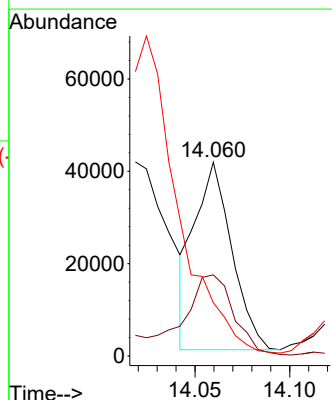
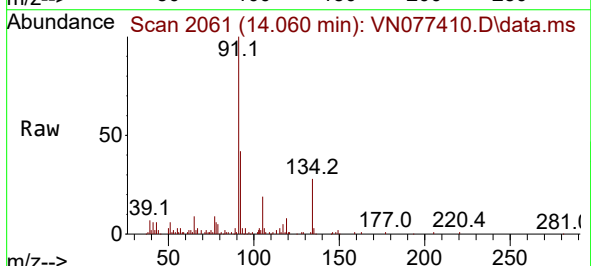
Tgt Ion: 91 Resp: 55657

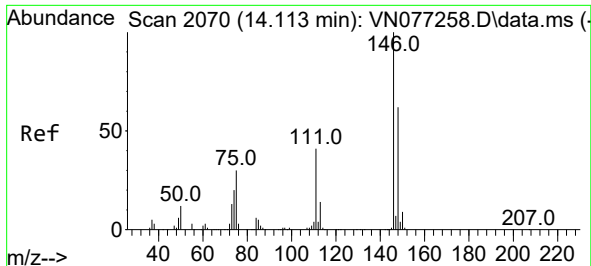
Ion Ratio Lower Upper

91 100

92 56.3 26.7 80.0

134 0.0 12.8 38.3#

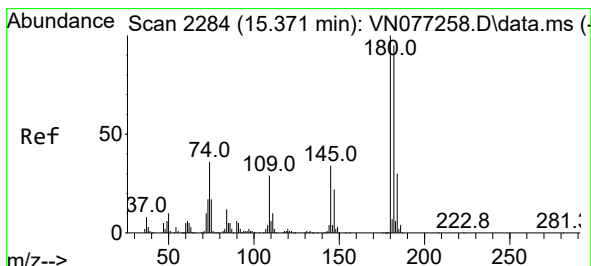
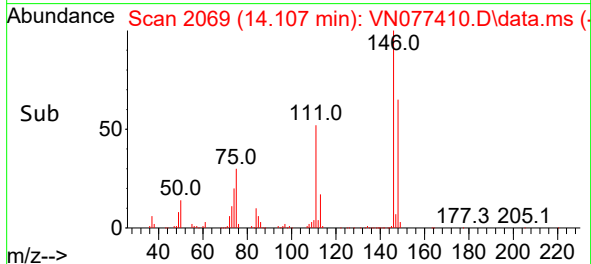
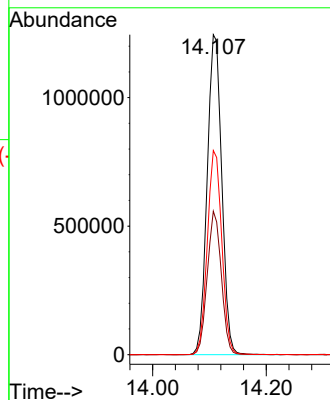
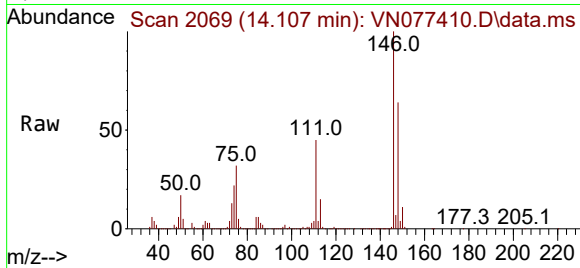




#91
1,2-Dichlorobenzene
Concen: 137.080 ug/l
RT: 14.107 min Scan# 2069
Delta R.T. -0.006 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

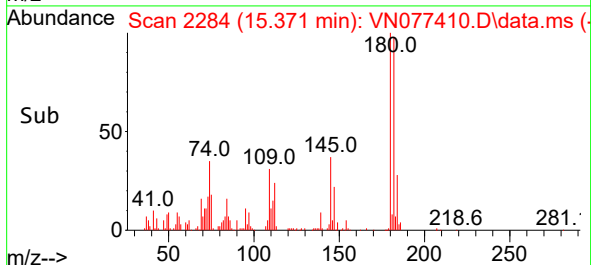
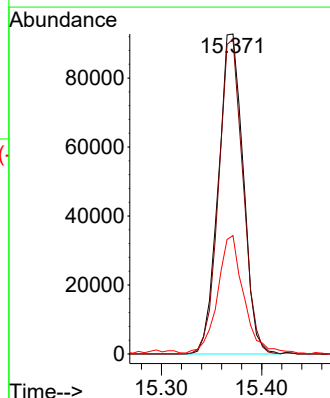
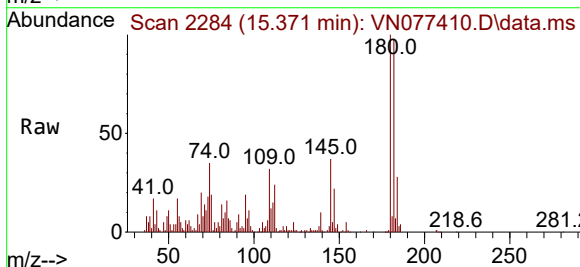
Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04

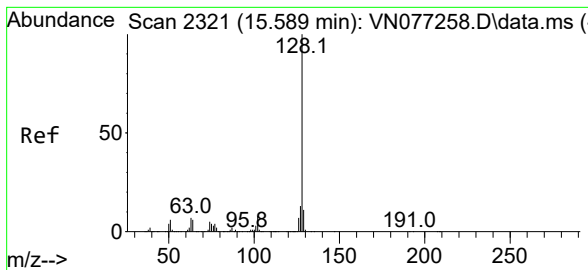
Tgt Ion:146 Resp: 2203493
Ion Ratio Lower Upper
146 100
111 43.3 21.9 65.5
148 63.4 31.9 95.5



#93
1,2,4-Trichlorobenzene
Concen: 27.533 ug/l
RT: 15.371 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

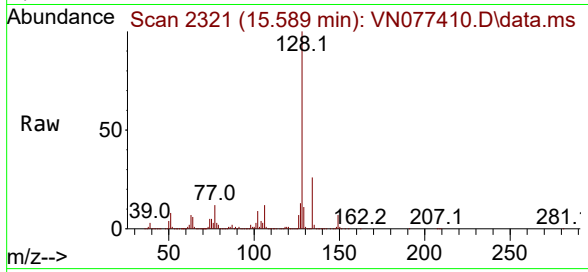
Tgt Ion:180 Resp: 159765
Ion Ratio Lower Upper
180 100
182 96.1 46.7 140.0
145 39.3 16.6 49.8





#95
Naphthalene
Concen: 117.284 ug/l
RT: 15.589 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077410.D
Acq: 20 Apr 2023 19:12

Instrument :
MSVOA_N
ClientSampleId :
SPA-4WC-23-04



Tgt Ion:128 Resp: 2556574
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.9 8.9 13.3

