

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077021.D
 Acq On : 16 Mar 2023 15:07
 Operator : JC\MD
 Sample : 01945-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 230315025-02-VOA

Quant Time: Mar 17 03:23:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

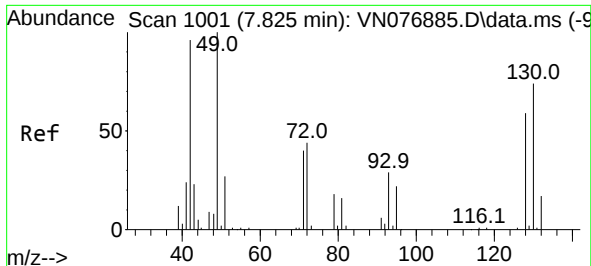
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.819	128	52798	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	383163	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	423180	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	160435	33.059	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.200%#
60) 4-Bromofluorobenzene	12.854	95	232337	29.009	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.700%
63) Toluene-d8	10.572	98	438369	29.452	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.167%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.966	74	11680	2.961	ug/l	92
23) tert-Butyl Alcohol	5.525	59	5244400	5761.480	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	42542	2.256	ug/l #	62
30) 2-Butanone	7.437	43	195223	47.413	ug/l #	78
34) Benzene	8.607	78	78020	2.820	ug/l #	77
45) 1,4-Dioxane	9.695	88	8003	70.634	ug/l	89
58) 4-Methyl-2-Pentanone	10.442	43	50115	5.862	ug/l #	86
62) Toluene	10.631	91	76858	2.636	ug/l	100
64) Chlorobenzene	11.895	112	13704	0.798	ug/l	96
66) Ethyl Benzene	11.966	91	14025	0.443	ug/l	99
67) m/p-Xylenes	12.072	106	82817	6.906	ug/l	93
68) o-Xylene	12.401	106	49669	4.242	ug/l	89
76) 1,3,5-Trimethylbenzene	13.177	105	17990	0.682	ug/l	93
80) 1,2,4-Trimethylbenzene	13.483	105	60923	2.351	ug/l	95
82) p-Isopropyltoluene	13.736	119	45378	1.780	ug/l	93
84) 1,4-Dichlorobenzene	13.813	146	30983	2.508	ug/l	94
91) Naphthalene	15.648	128	10899	0.508	ug/l #	94

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

Quant Time: Mar 17 03:23:56 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 09 04:16:54 2023
Response via : Initial Calibration

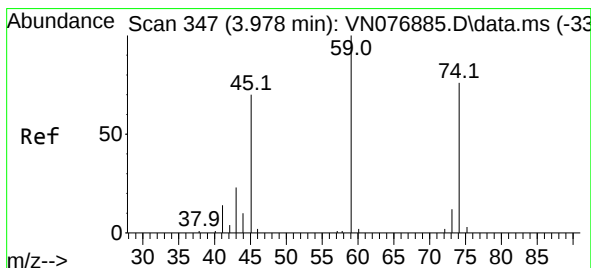
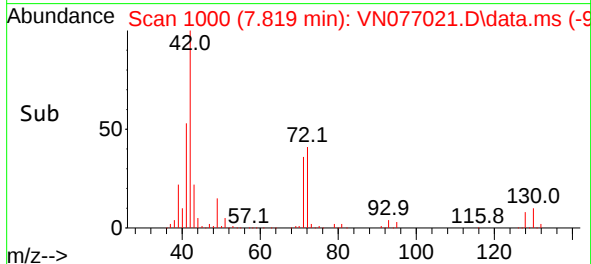
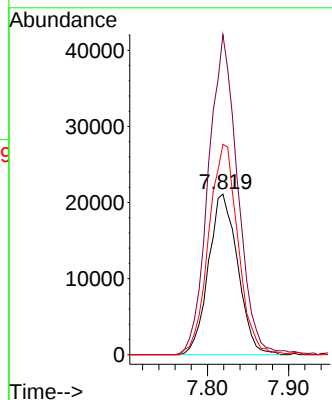
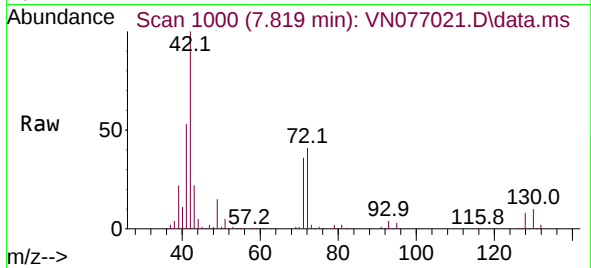




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

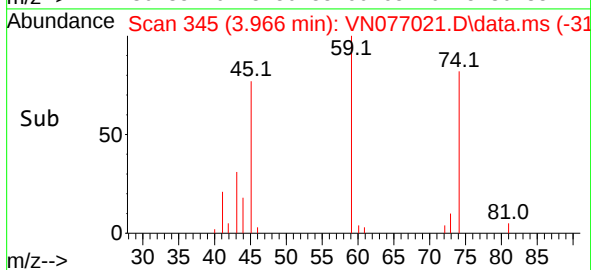
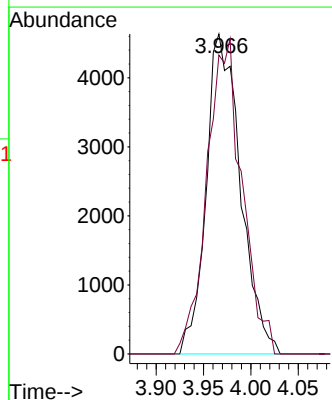
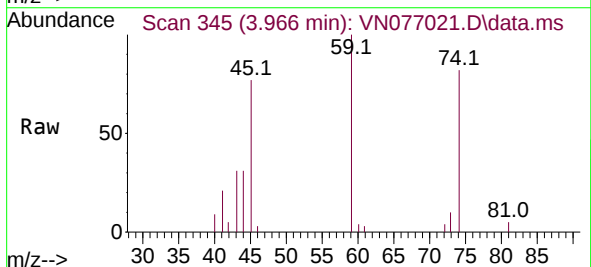
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

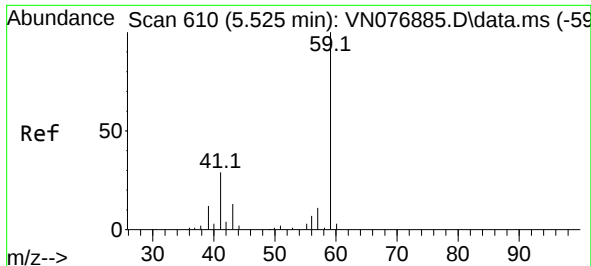
Tgt Ion:128 Resp: 52798
Ion Ratio Lower Upper
128 100
49 199.0 0.0 461.8
130 131.1 0.0 295.3



#8
Diethyl Ether
Concen: 2.961 ug/l
RT: 3.966 min Scan# 345
Delta R.T. -0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 74 Resp: 11680
Ion Ratio Lower Upper
74 100
45 99.2 21.4 193.0

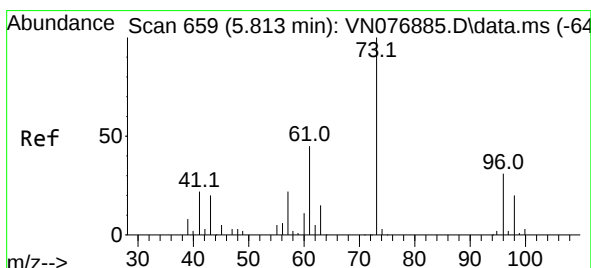
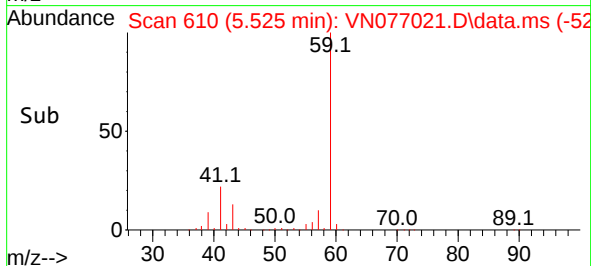
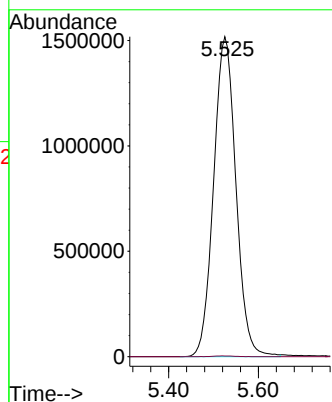
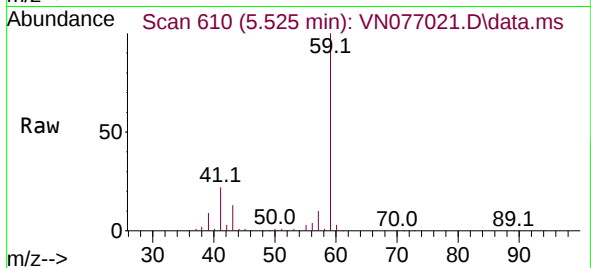




#23
tert-Butyl Alcohol
Concen: 5761.480 ug/l
RT: 5.525 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

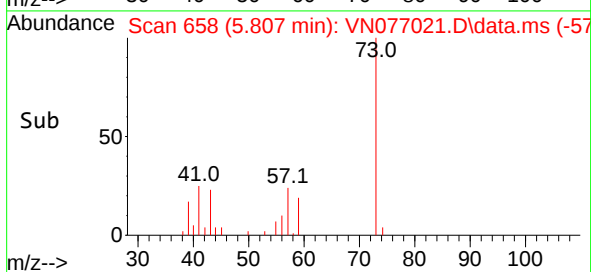
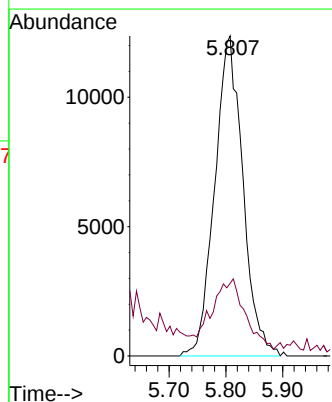
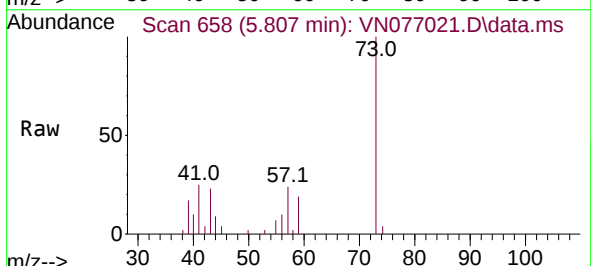
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

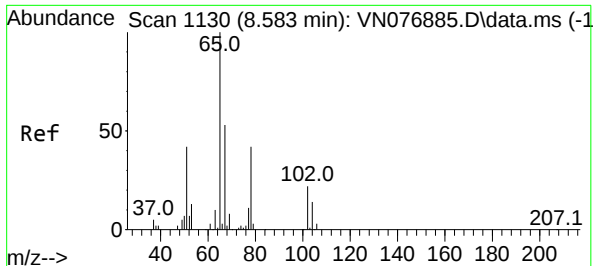
Tgt Ion: 59 Resp: 5244400
Ion Ratio Lower Upper
59 100
52 0.1 0.2 0.2#



#24
Methyl tert-Butyl Ether
Concen: 2.256 ug/l
RT: 5.807 min Scan# 658
Delta R.T. 0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 73 Resp: 42542
Ion Ratio Lower Upper
73 100
43 3.9 17.8 26.6#





#27

1,2-Dichloroethane-d4

Concen: 33.059 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077021.D

Acq: 16 Mar 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

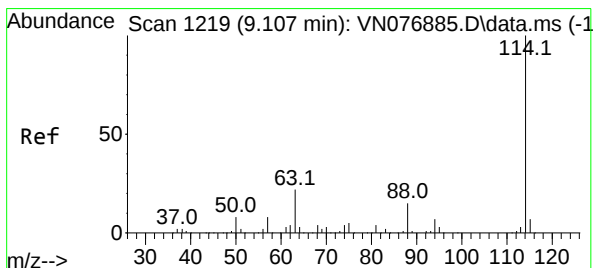
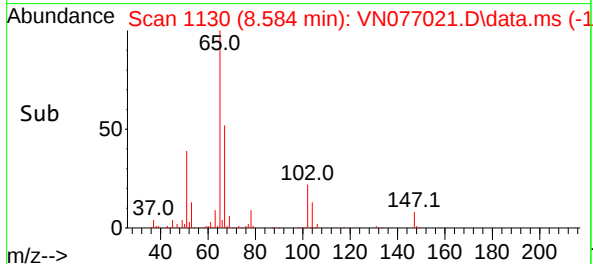
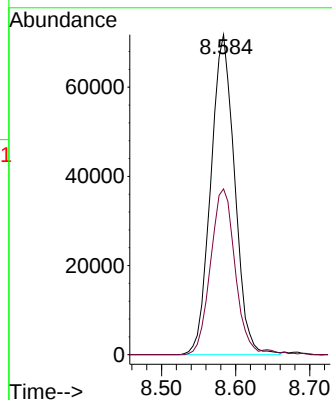
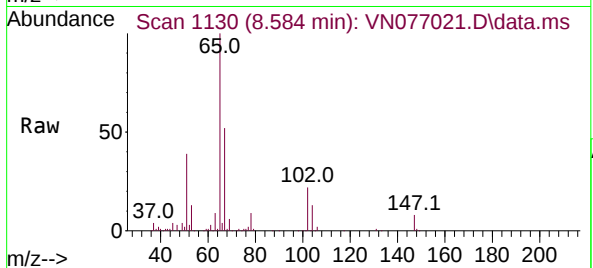
230315025-02-VOA

Tgt Ion: 65 Resp: 160435

Ion Ratio Lower Upper

65 100

67 52.9 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077021.D

Acq: 16 Mar 2023 15:07

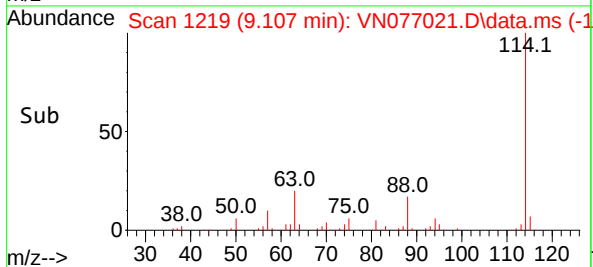
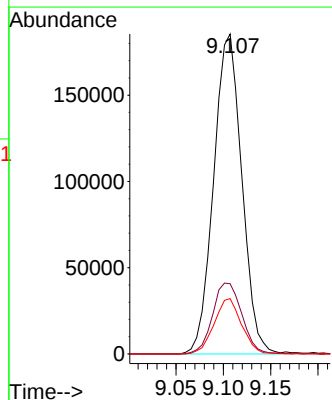
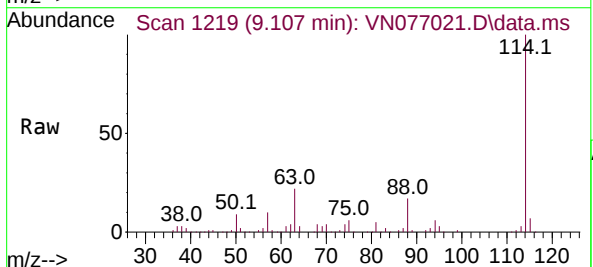
Tgt Ion: 114 Resp: 383163

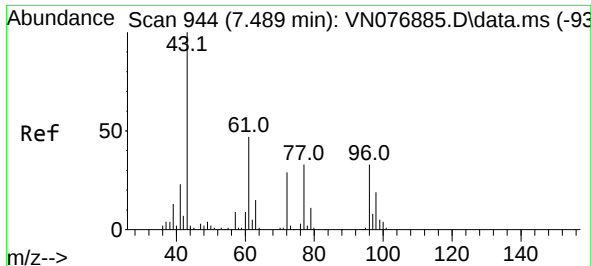
Ion Ratio Lower Upper

114 100

63 23.1 17.0 25.4

88 16.9 11.6 17.4

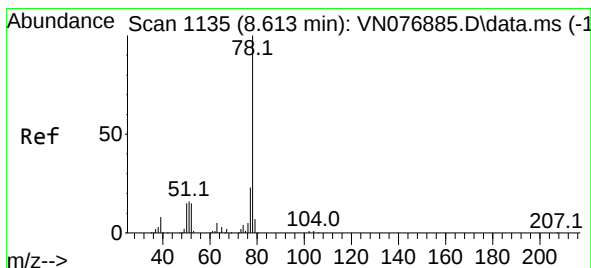
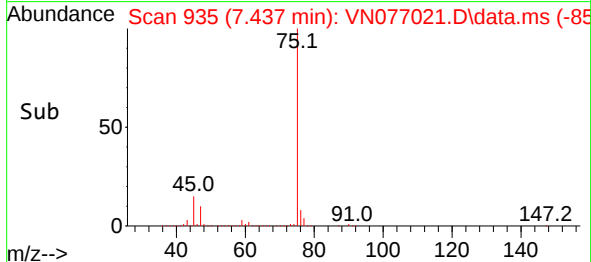
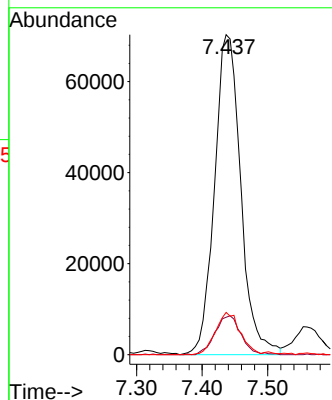
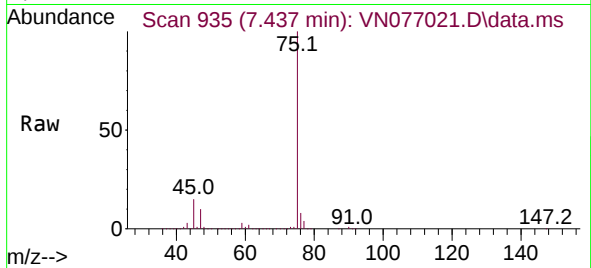




#30
2-Butanone
Concen: 47.413 ug/l
RT: 7.437 min Scan# 91
Delta R.T. -0.052 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

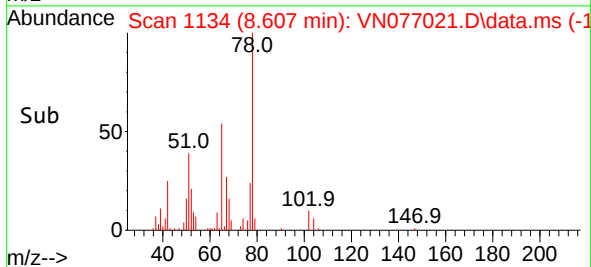
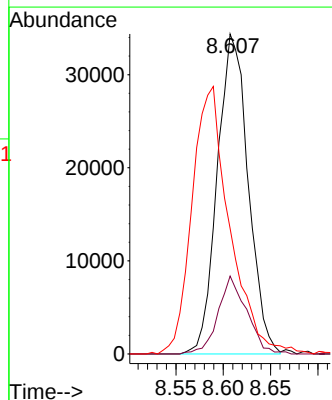
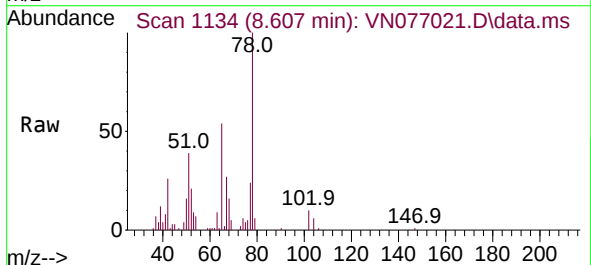
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

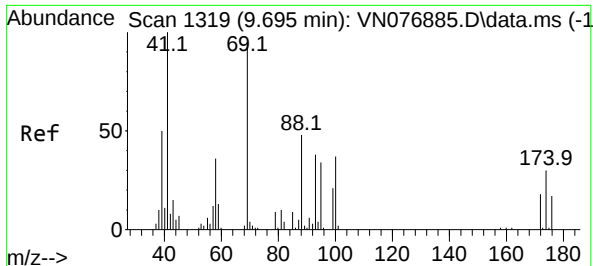
Tgt Ion: 43 Resp: 195223
Ion Ratio Lower Upper
43 100
57 11.8 6.1 9.1#
72 12.4 20.2 30.4#



#34
Benzene
Concen: 2.820 ug/l
RT: 8.607 min Scan# 1134
Delta R.T. -0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 78 Resp: 78020
Ion Ratio Lower Upper
78 100
77 24.4 17.4 26.2
51 36.6 13.8 20.6#





#45

1,4-Dioxane

Concen: 70.634 ug/l

RT: 9.695 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN077021.D

Acq: 16 Mar 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

230315025-02-VOA

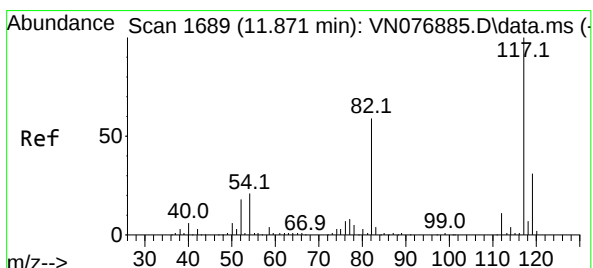
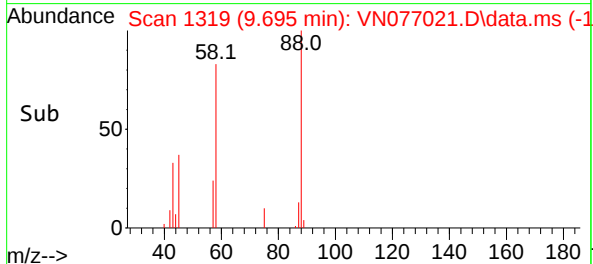
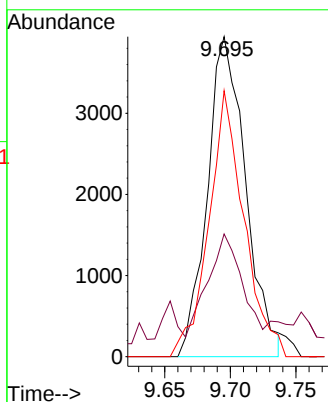
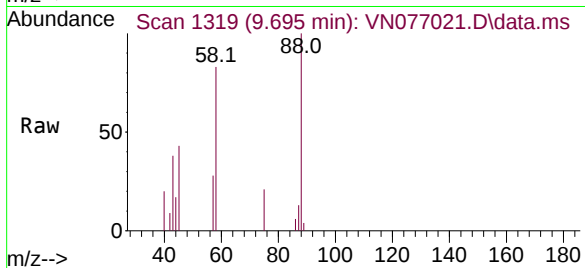
Tgt Ion: 88 Resp: 8003

Ion Ratio Lower Upper

88 100

43 38.8 26.0 39.0

58 76.3 54.3 81.5



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.872 min Scan# 1689

Delta R.T. 0.006 min

Lab File: VN077021.D

Acq: 16 Mar 2023 15:07

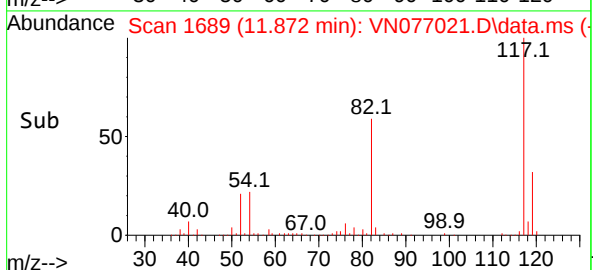
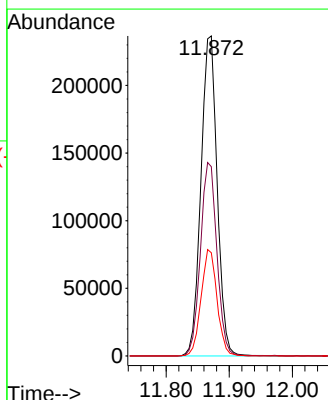
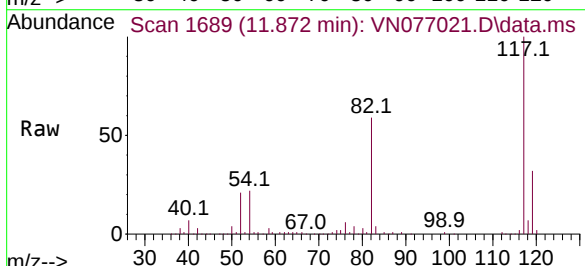
Tgt Ion: 117 Resp: 423180

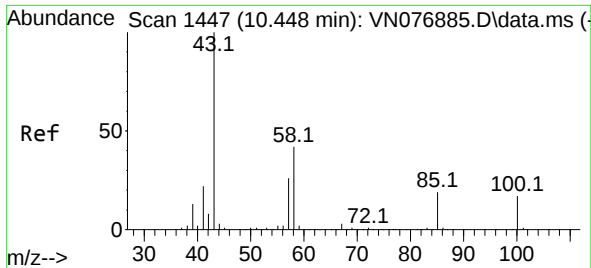
Ion Ratio Lower Upper

117 100

82 61.2 45.4 68.0

119 32.6 26.8 40.2

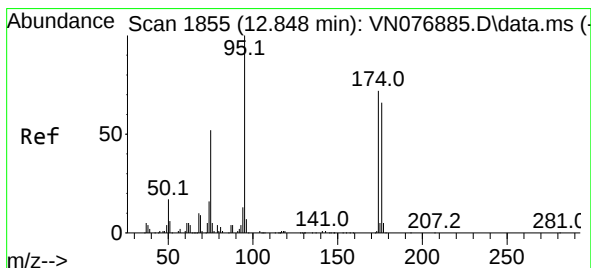
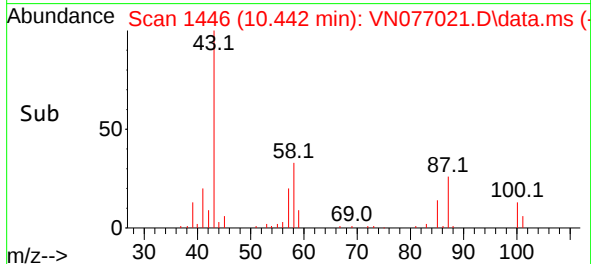
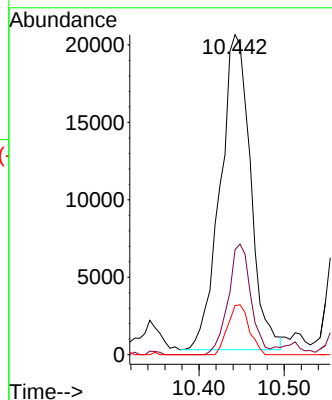
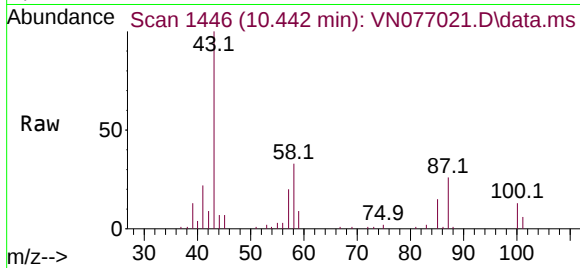




#58
4-Methyl-2-Pentanone
Concen: 5.862 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

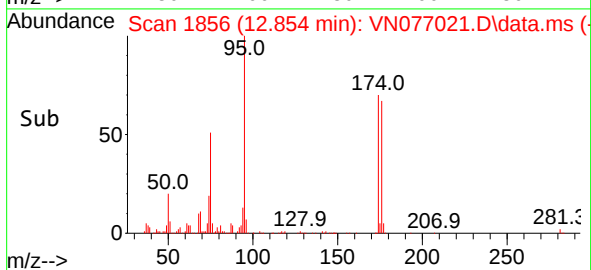
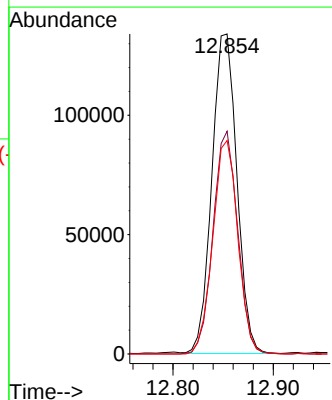
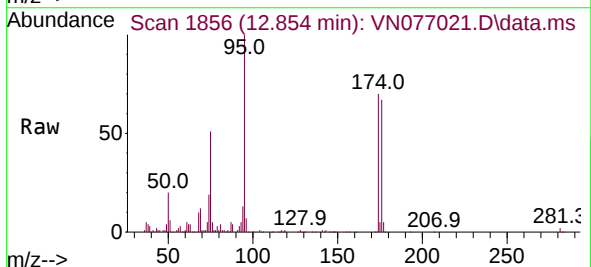
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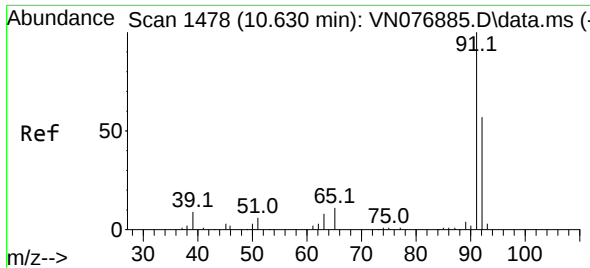
Tgt Ion: 43 Resp: 50115
Ion Ratio Lower Upper
43 100
58 26.4 28.6 42.8#
85 11.2 11.8 17.8#



#60
4-Bromofluorobenzene
Concen: 29.009 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 95 Resp: 232337
Ion Ratio Lower Upper
95 100
174 68.5 64.2 96.4
176 66.9 61.4 92.0

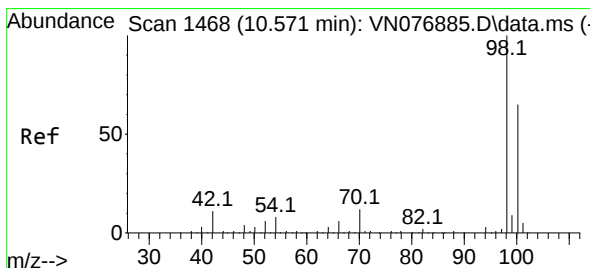
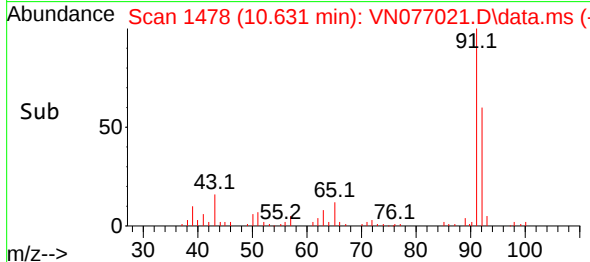
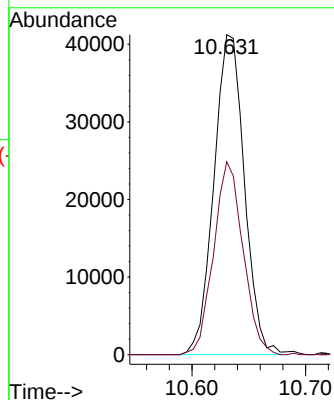
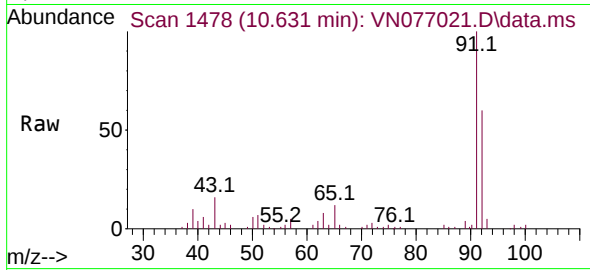




#62
Toluene
Concen: 2.636 ug/l
RT: 10.631 min Scan# 1478
Delta R.T. 0.001 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

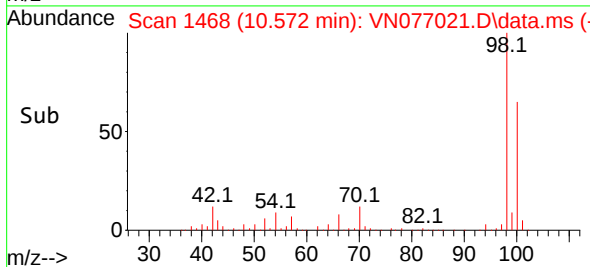
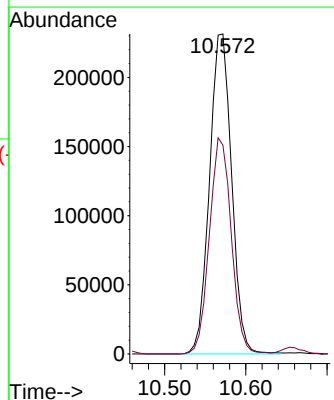
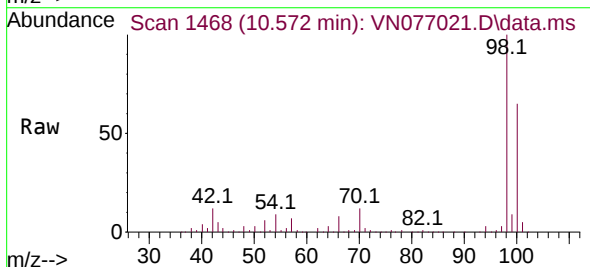
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

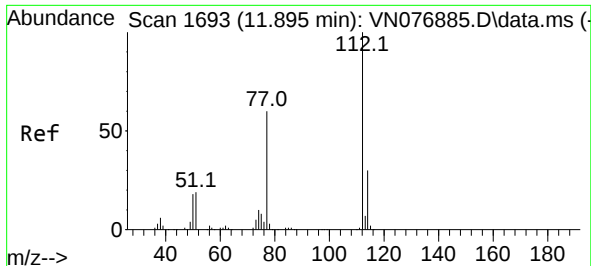
Tgt Ion: 91 Resp: 76858
Ion Ratio Lower Upper
91 100
92 58.2 46.3 69.5



#63
Toluene-d8
Concen: 29.452 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 98 Resp: 438369
Ion Ratio Lower Upper
98 100
100 66.7 53.8 80.6

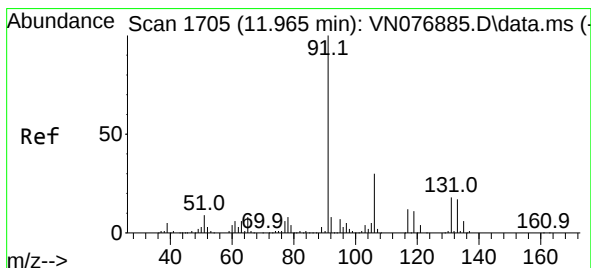
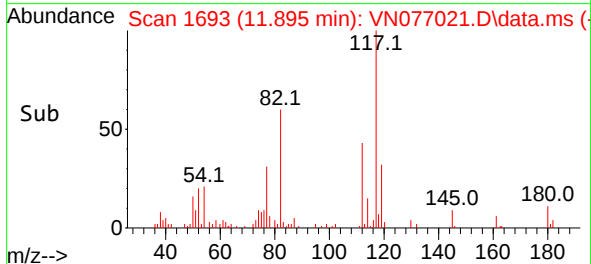
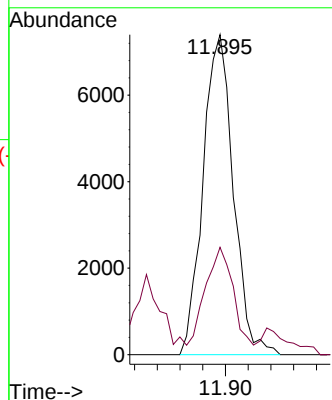
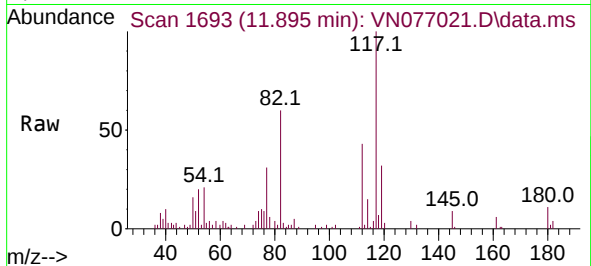




#64
Chlorobenzene
Concen: 0.798 ug/l
RT: 11.895 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

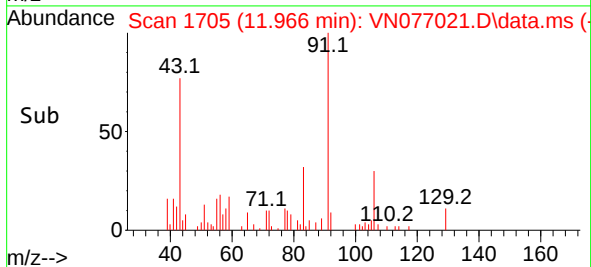
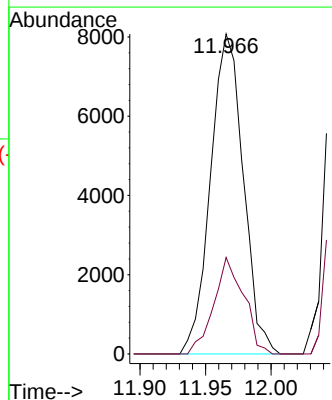
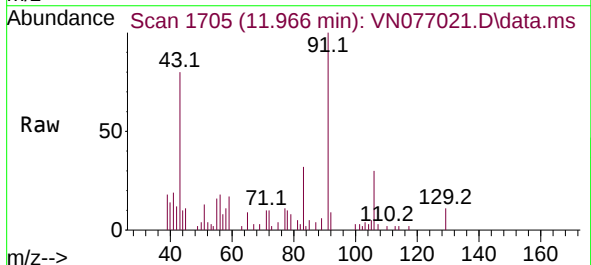
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

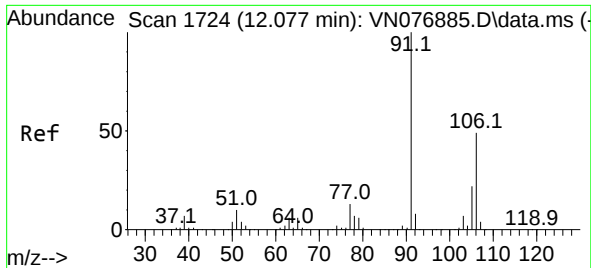
Tgt Ion:112 Resp: 13704
Ion Ratio Lower Upper
112 100
114 28.5 24.5 36.7



#66
Ethyl Benzene
Concen: 0.443 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion: 91 Resp: 14025
Ion Ratio Lower Upper
91 100
106 30.2 23.8 35.8

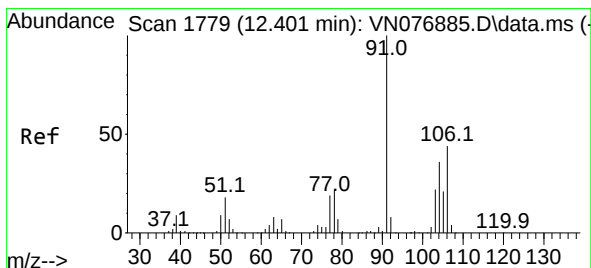
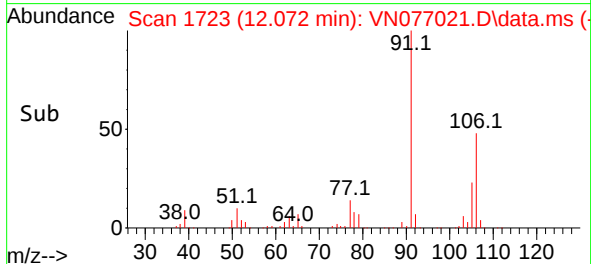
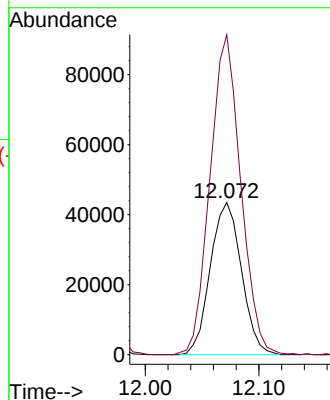
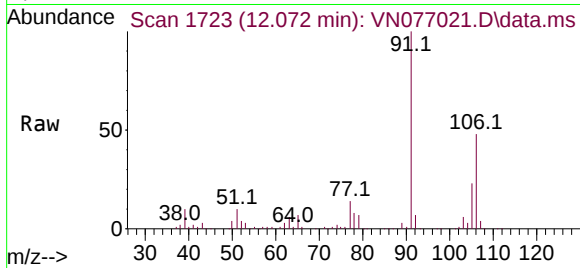




#67
m/p-Xylenes
Concen: 6.906 ug/l
RT: 12.072 min Scan# 1724
Delta R.T. 0.001 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

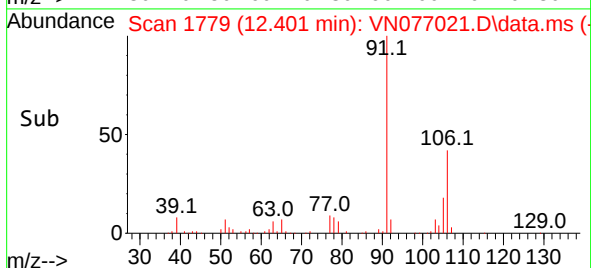
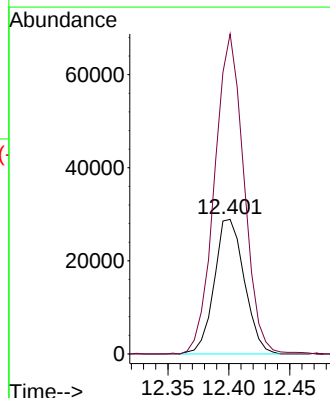
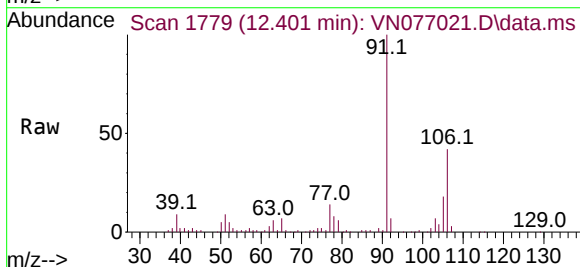
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

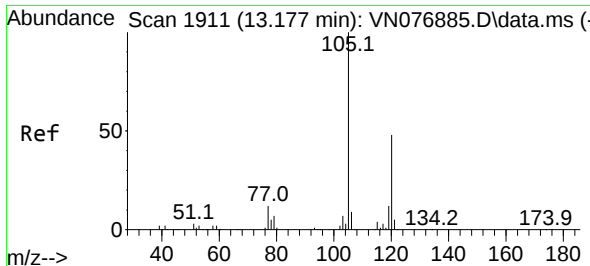
Tgt Ion:106 Resp: 82817
Ion Ratio Lower Upper
106 100
91 207.2 157.4 236.2



#68
o-Xylene
Concen: 4.242 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion:106 Resp: 49669
Ion Ratio Lower Upper
106 100
91 231.9 107.2 321.6

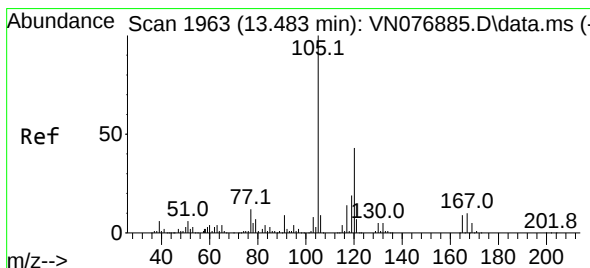
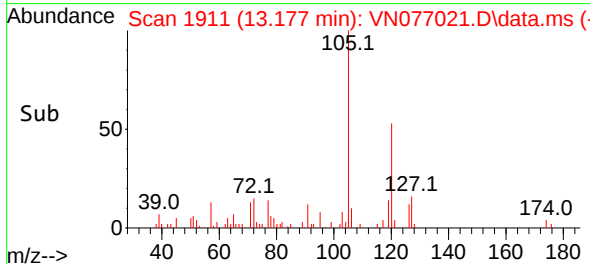
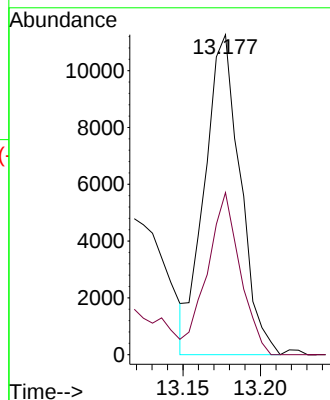
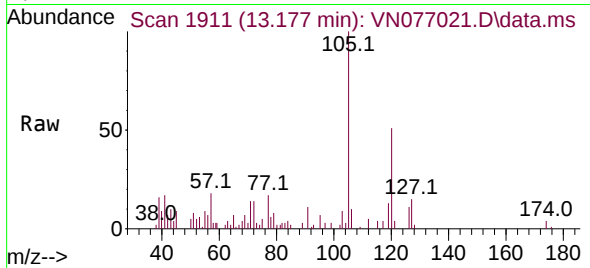




#76
1,3,5-Trimethylbenzene
Concen: 0.682 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

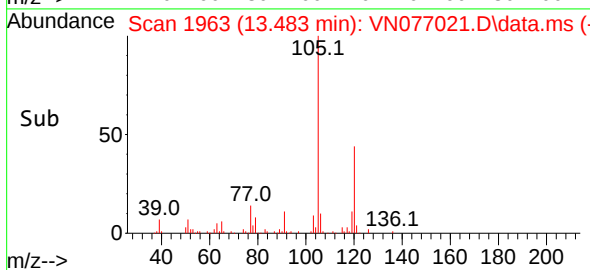
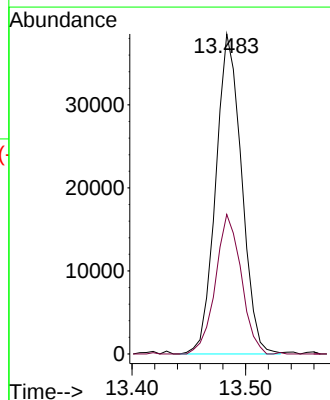
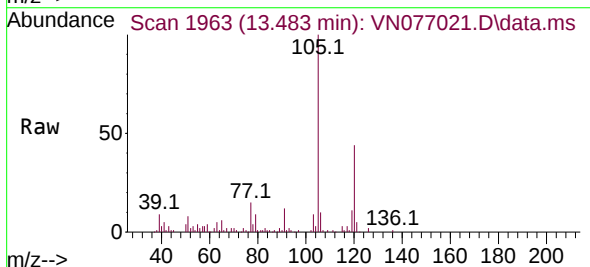
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

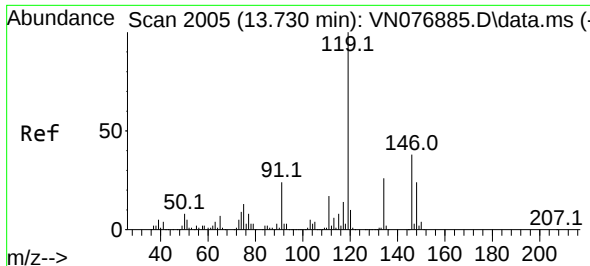
Tgt Ion:105 Resp: 17990
Ion Ratio Lower Upper
105 100
120 46.9 0.0 103.2



#80
1,2,4-Trimethylbenzene
Concen: 2.351 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. 0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion:105 Resp: 60923
Ion Ratio Lower Upper
105 100
120 43.4 0.0 93.2

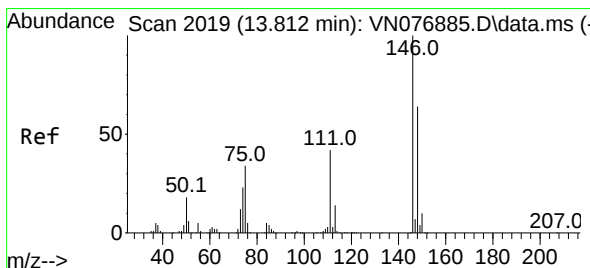
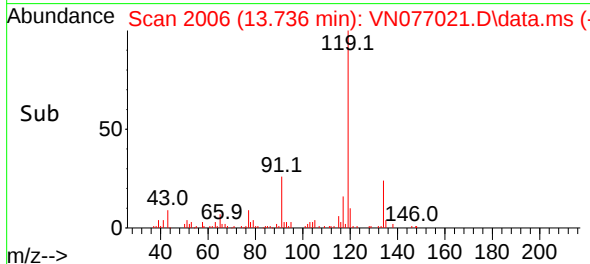
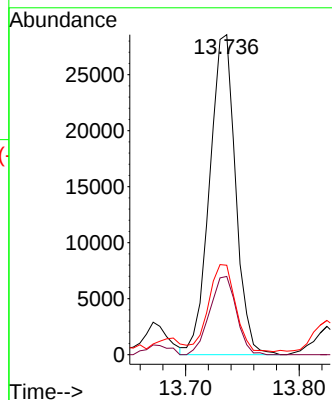
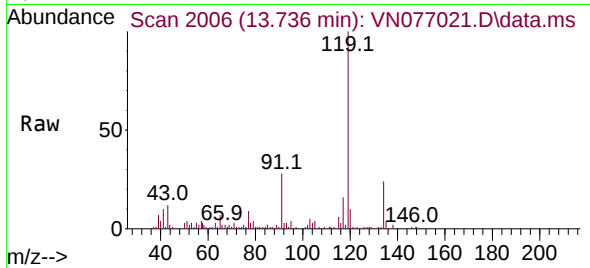




#82
p-Isopropyltoluene
Concen: 1.780 ug/l
RT: 13.736 min Scan# 2005
Delta R.T. 0.006 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

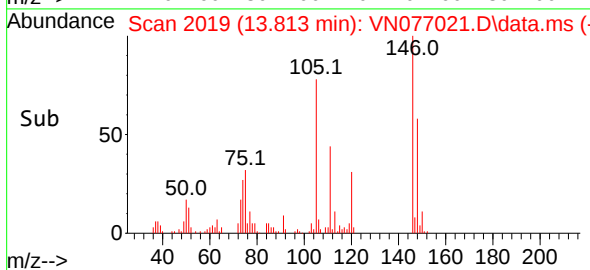
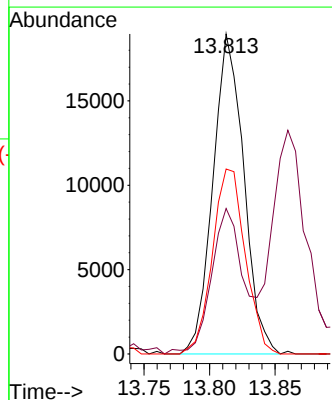
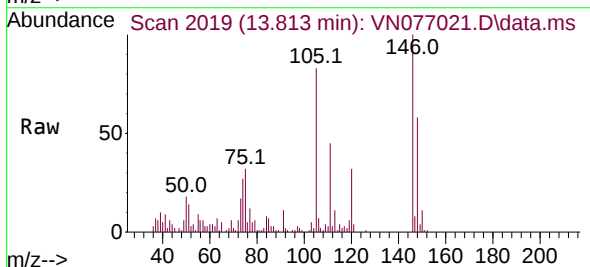
Instrument :
MSVOA_N
ClientSampleId :
230315025-02-VOA

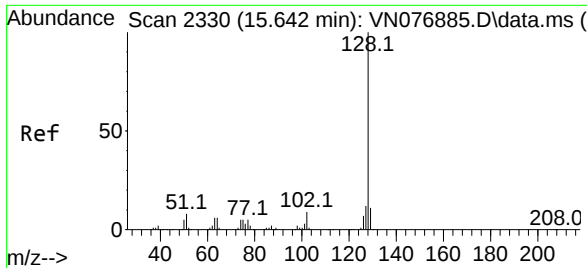
Tgt Ion:119 Resp: 45378
Ion Ratio Lower Upper
119 100
134 25.1 0.0 53.4
91 28.9 0.0 47.2



#84
1,4-Dichlorobenzene
Concen: 2.508 ug/l
RT: 13.813 min Scan# 2019
Delta R.T. -0.000 min
Lab File: VN077021.D
Acq: 16 Mar 2023 15:07

Tgt Ion:146 Resp: 30983
Ion Ratio Lower Upper
146 100
111 45.5 18.2 54.6
148 61.6 31.1 93.2





#91

Naphthalene

Concen: 0.508 ug/l

RT: 15.648 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077021.D

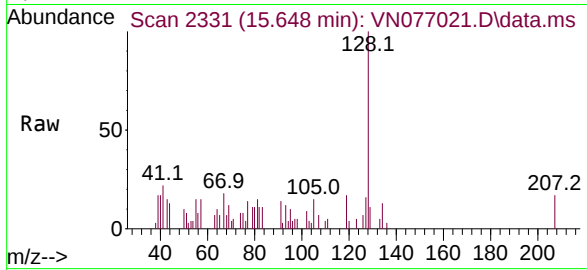
Acq: 16 Mar 2023 15:07

Instrument :

MSVOA_N

ClientSampleId :

230315025-02-VOA



Tgt Ion:128 Resp: 10899

Ion Ratio Lower Upper

128 100

127 14.1 11.0 16.6

129 6.7 8.9 13.3#

