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 Data File : VN075062.D
 Acq On : 28 Oct 2022 15:48
 Operator : JC\MD
 Sample : N5315-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

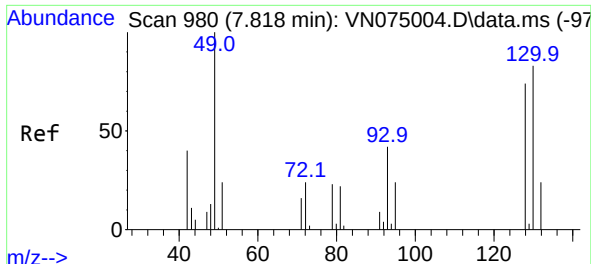
Instrument :
 MSVOA_N
 ClientSampleId :
 221026039-02-VOA

Quant Time: Oct 31 01:51:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

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

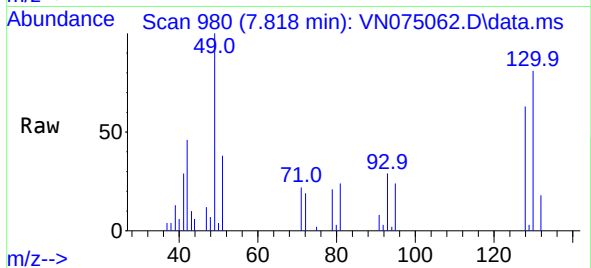
Internal Standards						
1) Bromochloromethane	7.818	128	12633	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	69640	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	62022	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	37724	32.659	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.867%			
60) 4-Bromofluorobenzene	12.847	95	33589	27.563	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.867%			
63) Toluene-d8	10.565	98	104493	30.123	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.400%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.153	50	254	0.314	ug/l #	40
6) Chloroethane	3.077	64	625	0.662	ug/l #	82
8) Diethyl Ether	3.971	74	6401	11.826	ug/l	89
12) Methyl Acetate	5.036	43	709	0.578	ug/l #	49
15) Acetone	4.465	58	974	6.882	ug/l #	26
23) tert-Butyl Alcohol	5.547	59	29730	126.788	ug/l #	100
30) 2-Butanone	7.488	43	1208	1.754	ug/l #	53
31) 2,2-Dichloropropane	7.447	77	2782	1.907	ug/l #	53
34) Benzene	8.606	78	1180	0.323	ug/l #	1
35) Methacrylonitrile	7.847	41	24908	37.740	ug/l #	47
36) 1,2-Dichloroethane	9.100	62	2509	1.854	ug/l #	77
43) Ethyl Acetate	7.488	43	1208	0.888	ug/l	97
45) 1,4-Dioxane	9.706	88	3120	116.123	ug/l #	37
50) 1,1,2-Trichloroethane	10.571	97	3289	3.219	ug/l #	1
58) 4-Methyl-2-Pentanone	10.435	43	1101	0.823	ug/l #	44
59) 2-Hexanone	11.171	43	2076	2.023	ug/l #	34
64) Chlorobenzene	11.894	112	13865	5.572	ug/l	95
66) Ethyl Benzene	12.076	91	3679	0.813	ug/l #	84
67) m/p-Xylenes	12.070	106	1655	0.912	ug/l	88
68) o-Xylene	12.406	106	1364	0.748	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	18548	13.191	ug/l	1
74) n-propylbenzene	13.123	91	1484	0.279	ug/l #	53
75) 2-Chlorotoluene	13.123	91	1484	0.458	ug/l	94
77) t-1,4-Dichloro-2-butene	12.847	75	18548	37.765	ug/l #	8
78) 4-Chlorotoluene	13.123	91	1484	0.472	ug/l	95
79) tert-butylbenzene	13.723	119	950	0.264	ug/l	54
82) p-Isopropyltoluene	13.723	119	950	0.223	ug/l	87
83) 1,3-Dichlorobenzene	13.812	146	12257	5.858	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	12257	6.072	ug/l	99
86) Hexachloroethane	14.441	117	686	0.868	ug/l #	17
87) 1,2-Dichlorobenzene	13.812	146	12257	5.922	ug/l	97

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

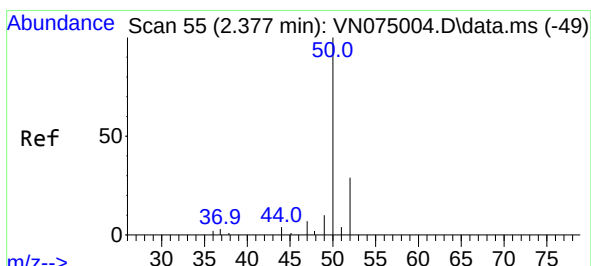
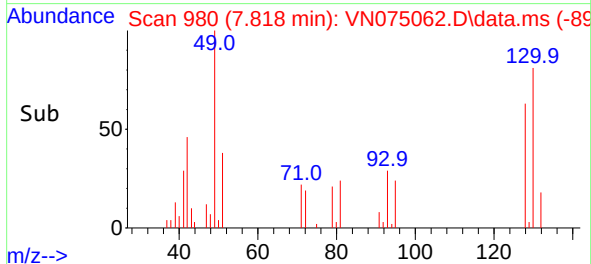
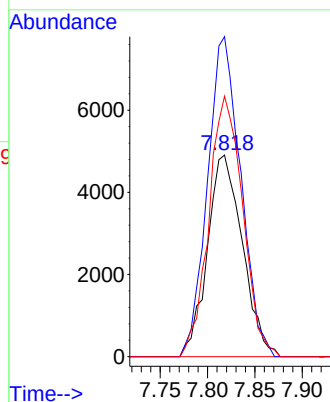


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

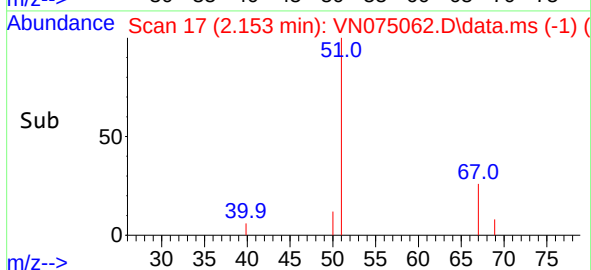
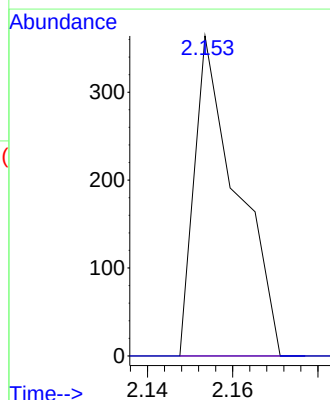
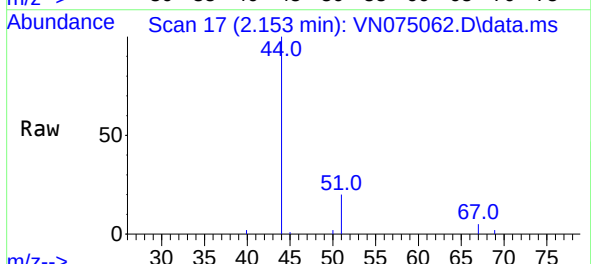


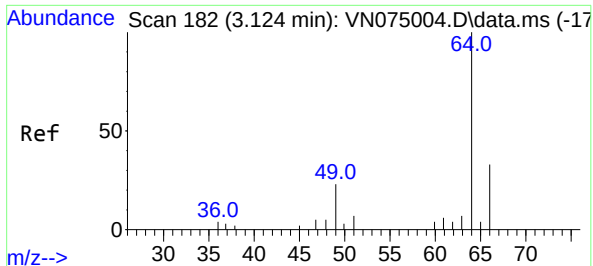
Tgt Ion:128 Resp: 12633
Ion Ratio Lower Upper
128 100
49 150.7 0.0 392.3
130 124.9 0.0 320.2



#3
Chloromethane
Concen: 0.314 ug/l
RT: 2.153 min Scan# 17
Delta R.T. -0.224 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 50 Resp: 254
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.6#

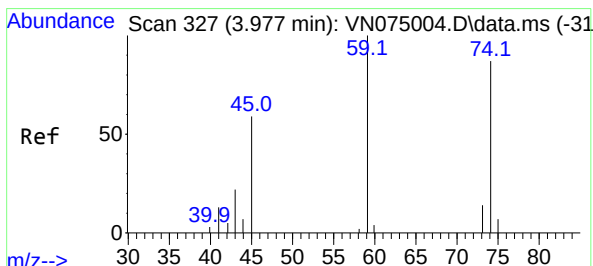
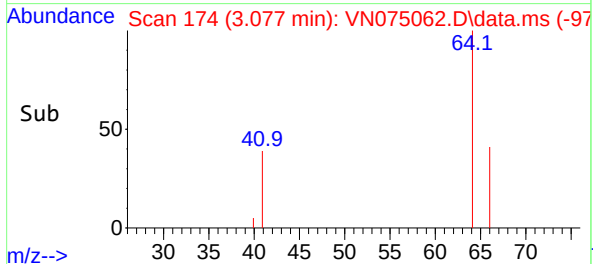
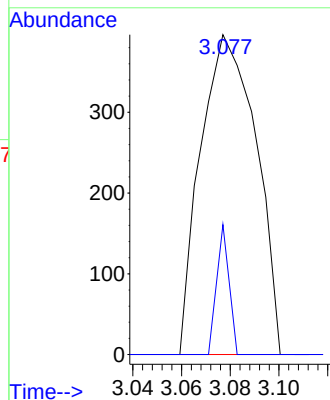
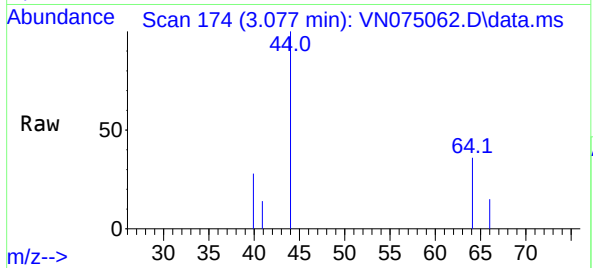




#6
Chloroethane
Concen: 0.662 ug/l
RT: 3.077 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

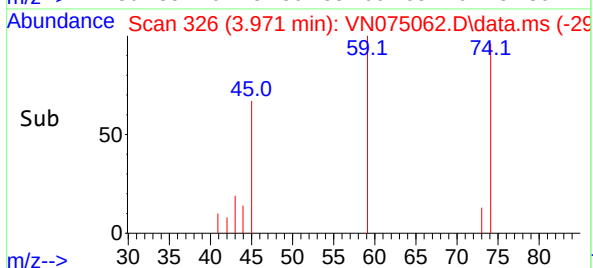
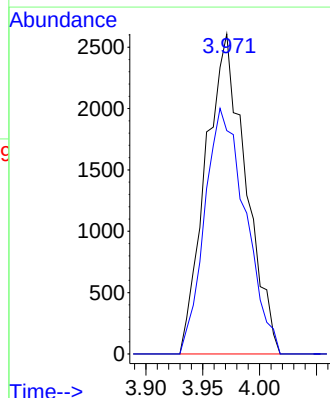
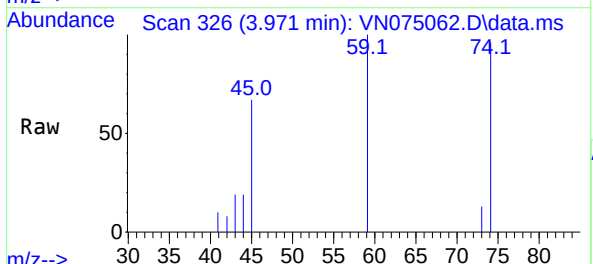
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MSVOA_N
ClientSampleId :
221026039-02-VOA

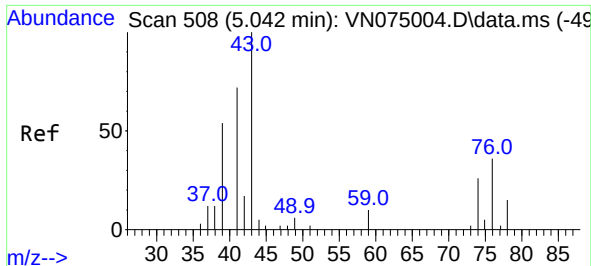
Tgt Ion: 64 Resp: 625
Ion Ratio Lower Upper
64 100
66 40.7 24.6 36.8#



#8
Diethyl Ether
Concen: 11.826 ug/l
RT: 3.971 min Scan# 326
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 74 Resp: 6401
Ion Ratio Lower Upper
74 100
45 78.1 17.6 158.8

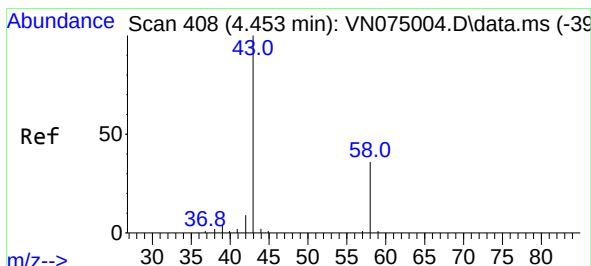
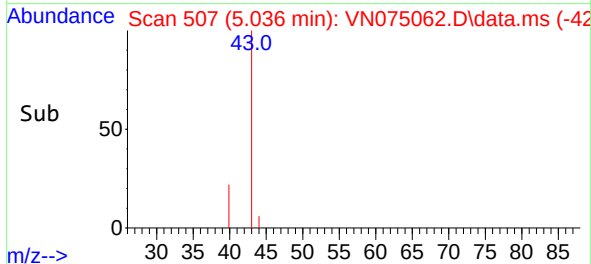
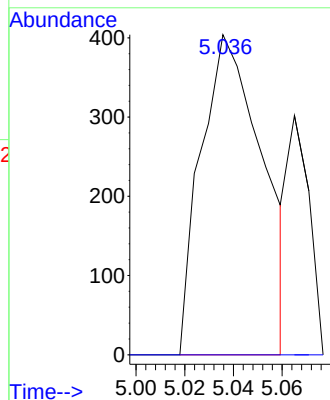
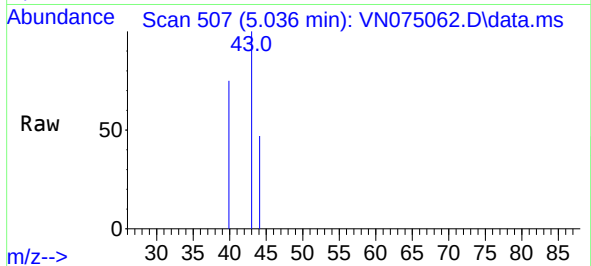




#12
Methyl Acetate
Concen: 0.578 ug/l
RT: 5.036 min Scan# 50
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

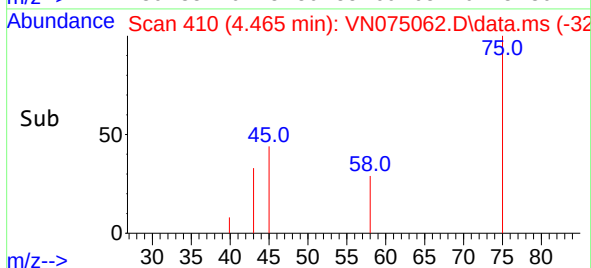
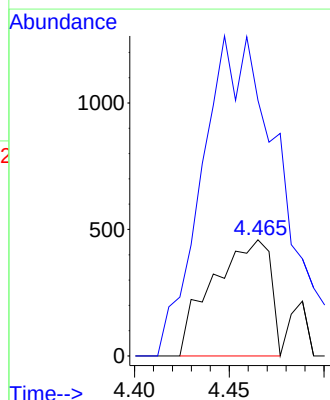
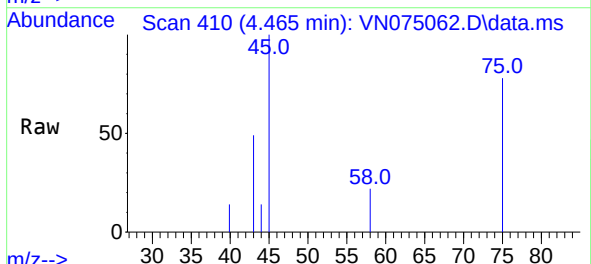
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MSVOA_N
ClientSampleId :
221026039-02-VOA

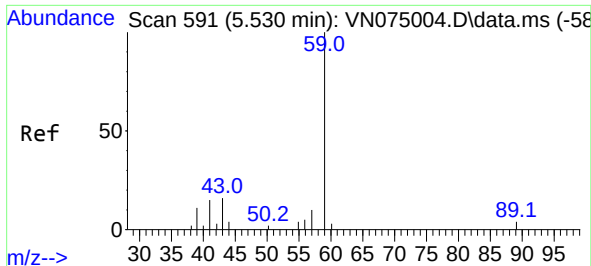
Tgt Ion: 43 Resp: 709
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#15
Acetone
Concen: 6.882 ug/l
RT: 4.465 min Scan# 410
Delta R.T. 0.012 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 58 Resp: 974
Ion Ratio Lower Upper
58 100
43 169.5 256.6 384.8#

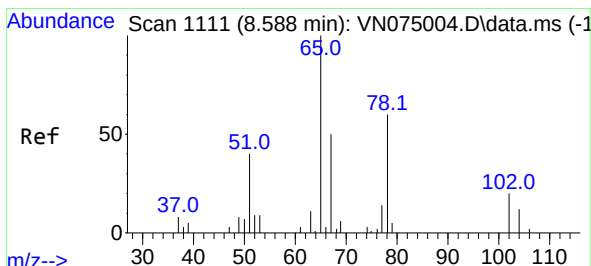
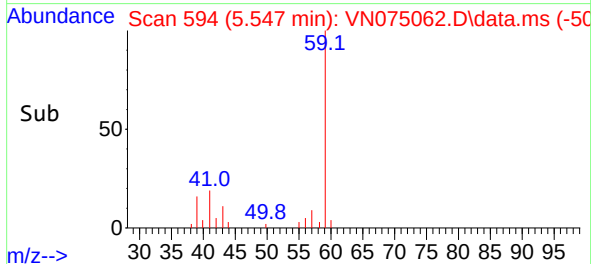
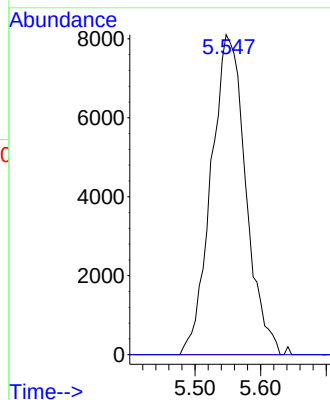
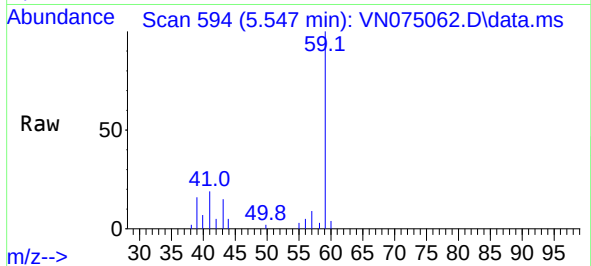




#23
tert-Butyl Alcohol
Concen: 126.788 ug/l
RT: 5.547 min Scan# 591
Delta R.T. 0.018 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

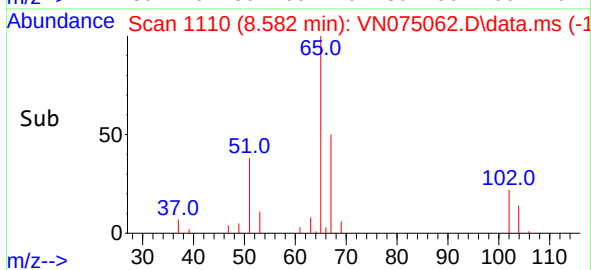
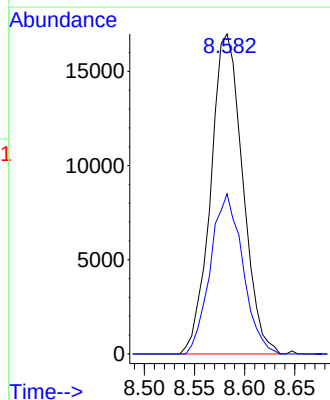
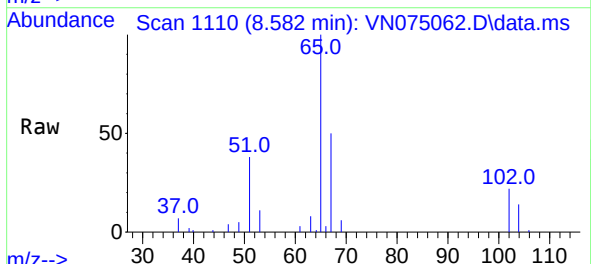
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

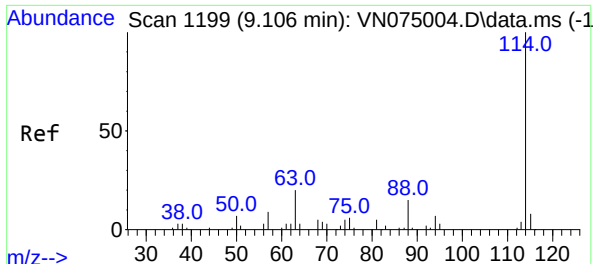
Tgt Ion: 59 Resp: 29730
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 32.659 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 65 Resp: 37724
Ion Ratio Lower Upper
65 100
67 50.5 40.2 60.2

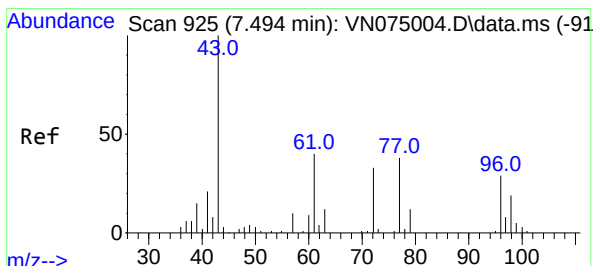
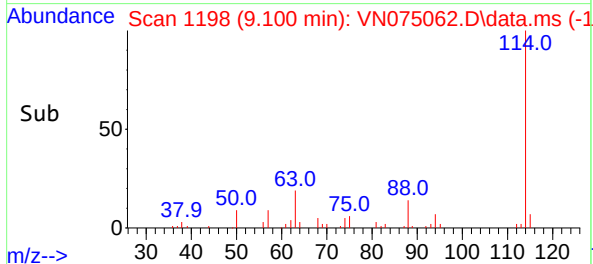
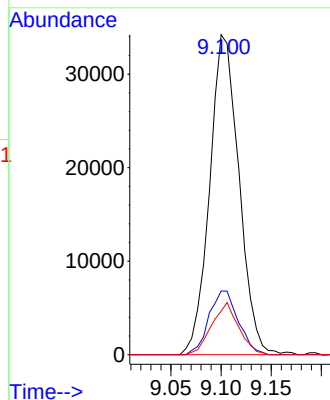
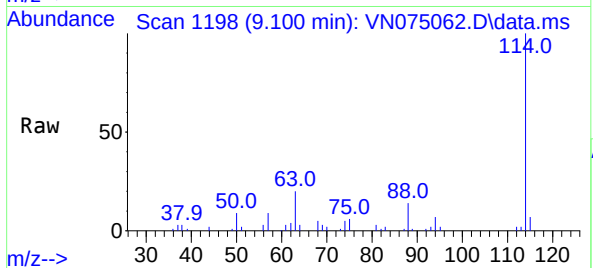




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1199
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

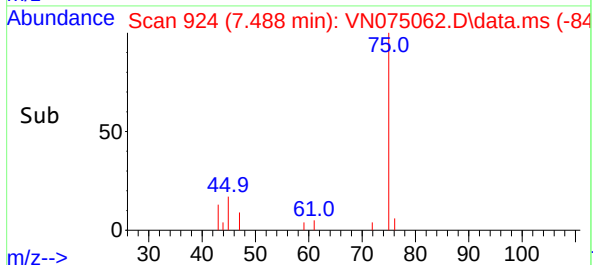
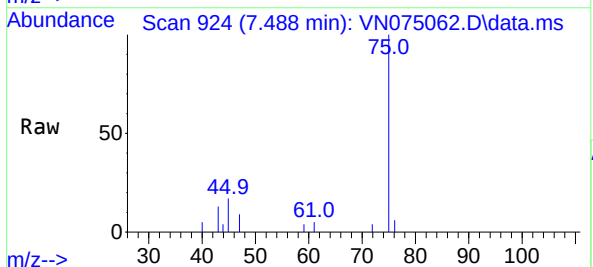
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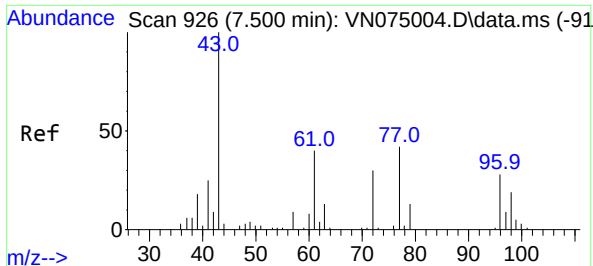
Tgt Ion:114 Resp: 69640
Ion Ratio Lower Upper
114 100
63 20.0 15.8 23.6
88 15.0 11.6 17.4



#30
2-Butanone
Concen: 1.754 ug/l
RT: 7.488 min Scan# 924
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 0.0 23.2 34.8#





#31

2,2-Dichloropropane

Concen: 1.907 ug/l

RT: 7.447 min Scan# 91

Delta R.T. -0.053 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

Instrument :

MSVOA_N

ClientSampleId :

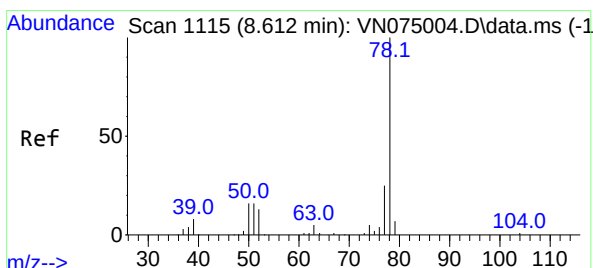
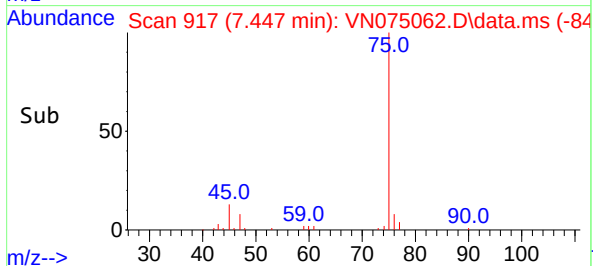
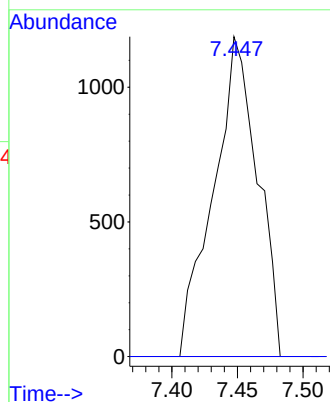
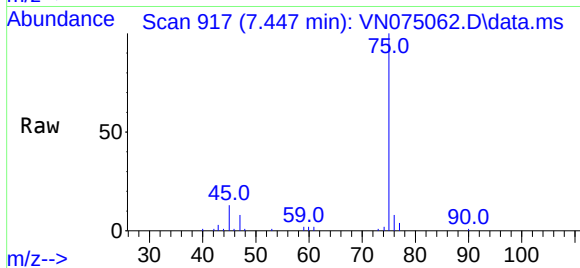
221026039-02-VOA

Tgt Ion: 77 Resp: 2782

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#34

Benzene

Concen: 0.323 ug/l

RT: 8.606 min Scan# 1114

Delta R.T. -0.006 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

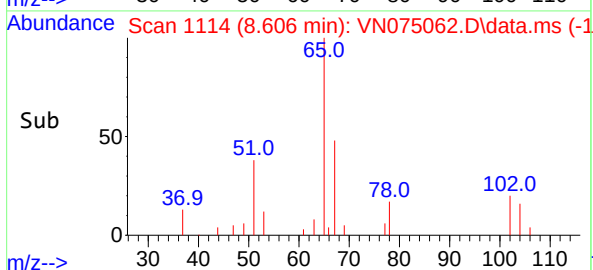
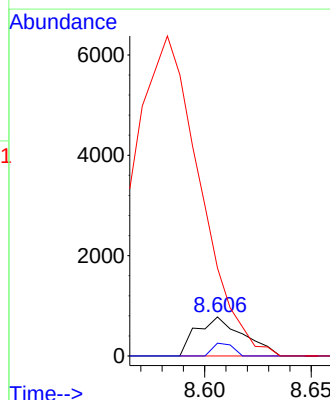
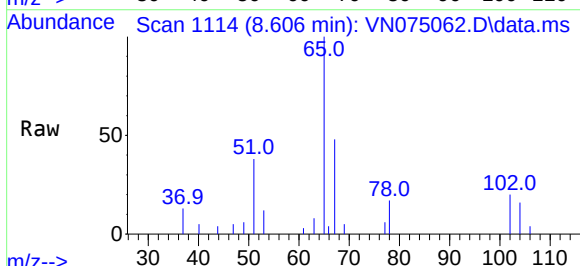
Tgt Ion: 78 Resp: 1180

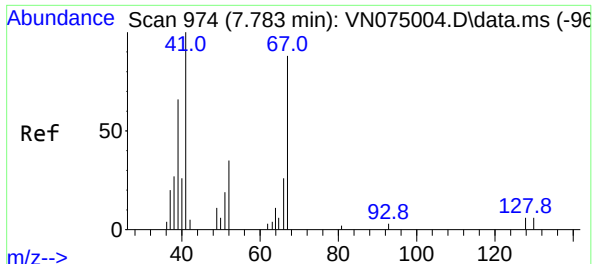
Ion Ratio Lower Upper

78 100

77 33.0 19.1 28.7#

51 225.0 16.0 24.0#

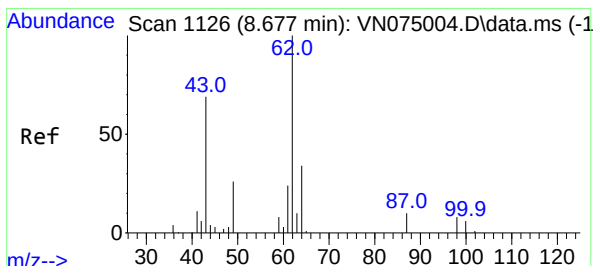
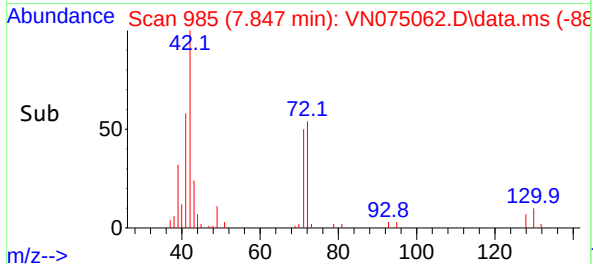
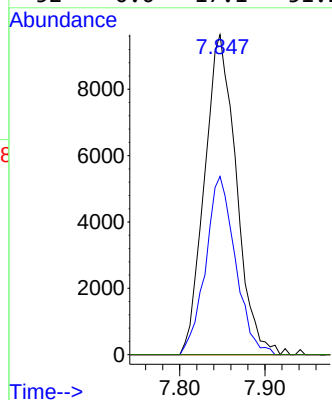
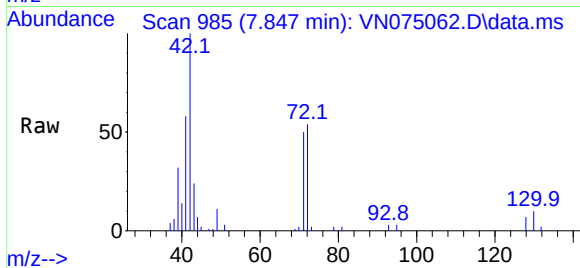




#35
Methacrylonitrile
Concen: 37.740 ug/l
RT: 7.847 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

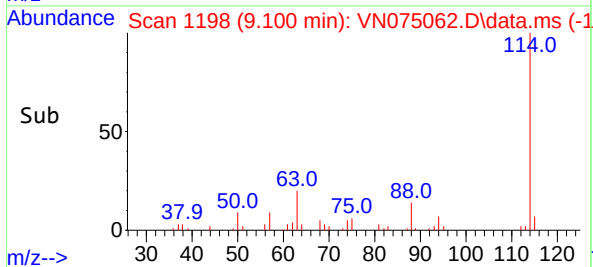
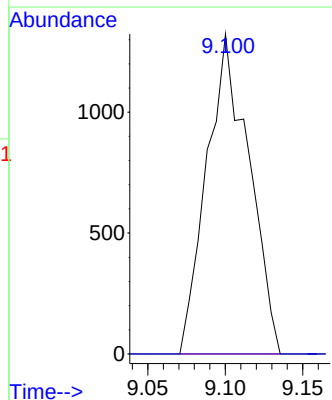
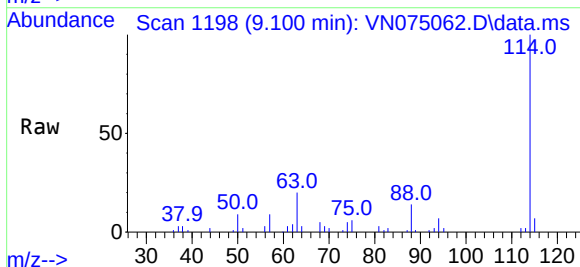
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

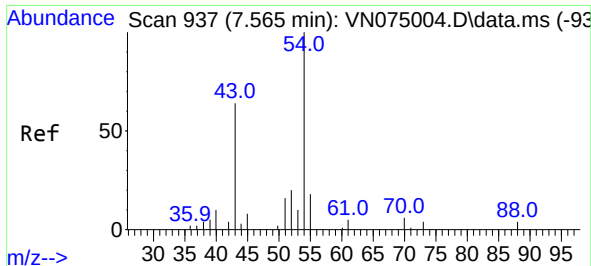
Tgt Ion:	41	Resp:	24908
Ion	Ratio	Lower	Upper
41	100		
39	55.7	28.0	83.9
67	0.0	37.7	113.1#
52	0.0	17.1	51.2#



#36
1,2-Dichloroethane
Concen: 1.854 ug/l
RT: 9.100 min Scan# 1198
Delta R.T. 0.423 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion:	62	Resp:	2509
Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.6	10.0#

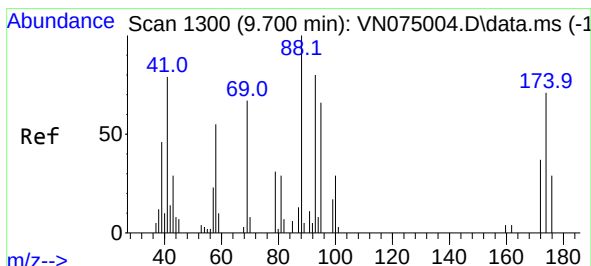
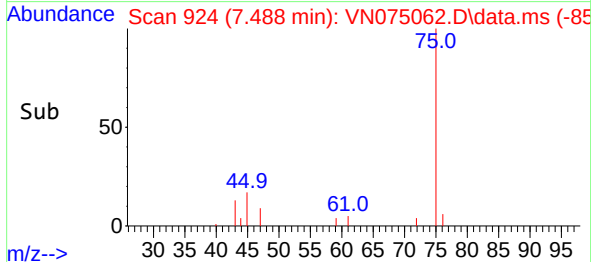
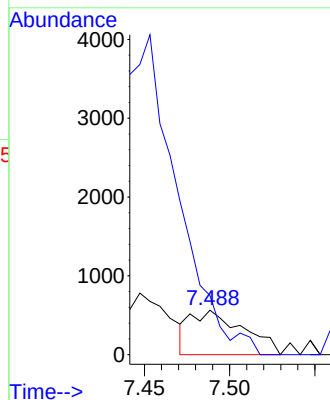
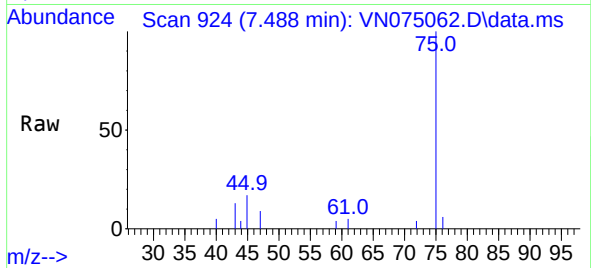




#43
Ethyl Acetate
Concen: 0.888 ug/l
RT: 7.488 min Scan# 91
Delta R.T. -0.077 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

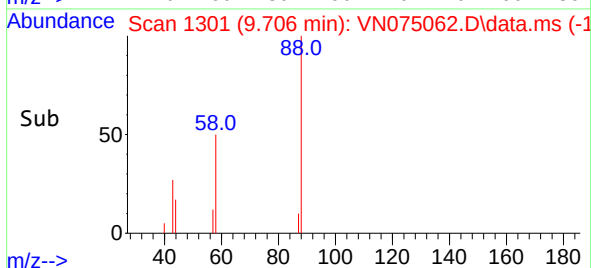
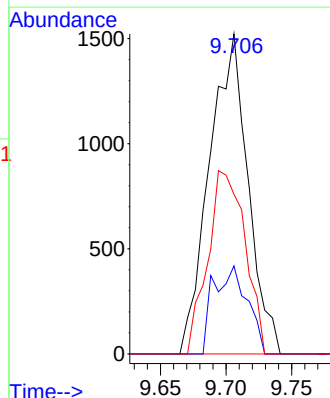
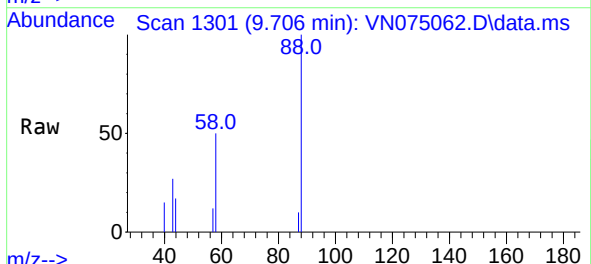
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

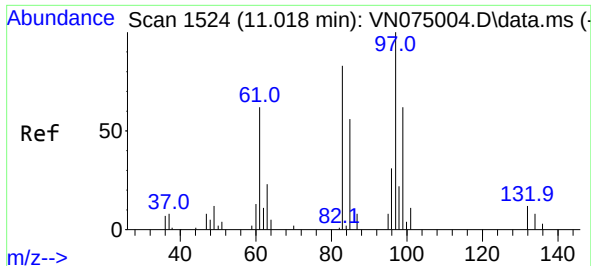
Tgt Ion: 43 Resp: 1208
Ion Ratio Lower Upper
43 100
45 14.4 10.6 16.0



#45
1,4-Dioxane
Concen: 116.123 ug/l
RT: 9.706 min Scan# 1301
Delta R.T. 0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 88 Resp: 3120
Ion Ratio Lower Upper
88 100
43 16.3 25.0 37.6#
58 0.0 49.4 74.2#





#50

1,1,2-Trichloroethane

Concen: 3.219 ug/l

RT: 10.571 min Scan# 14

Delta R.T. -0.447 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

Instrument :

MSVOA_N

ClientSampleId :

221026039-02-VOA

Tgt Ion: 97 Resp: 3289

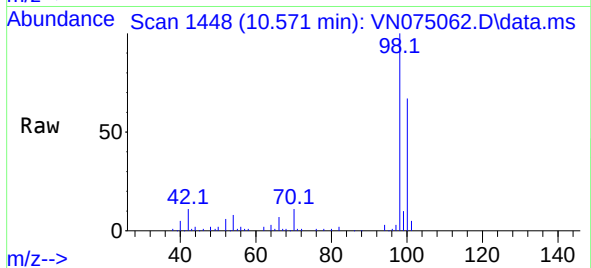
Ion Ratio Lower Upper

97 100

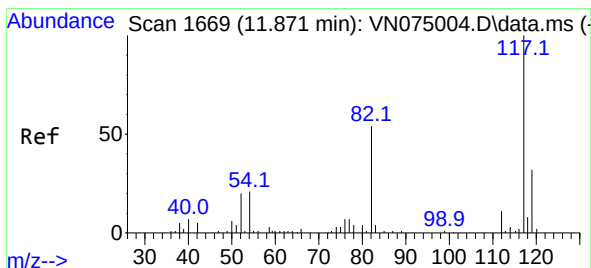
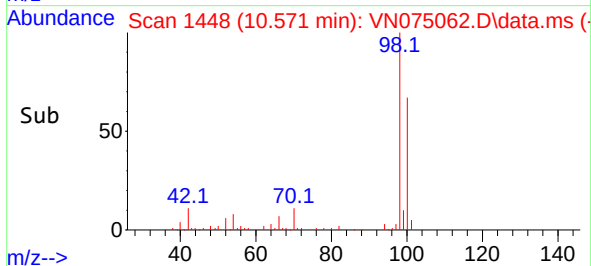
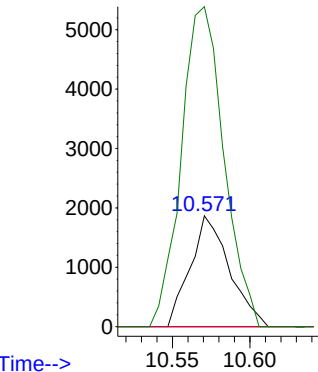
83 0.0 67.2 100.8#

85 0.0 43.0 64.4#

99 288.6 49.0 73.4#



Abundance



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1668

Delta R.T. -0.006 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

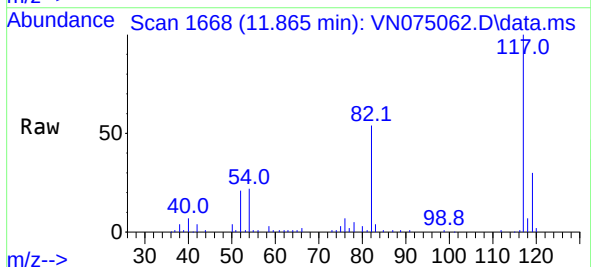
Tgt Ion: 117 Resp: 62022

Ion Ratio Lower Upper

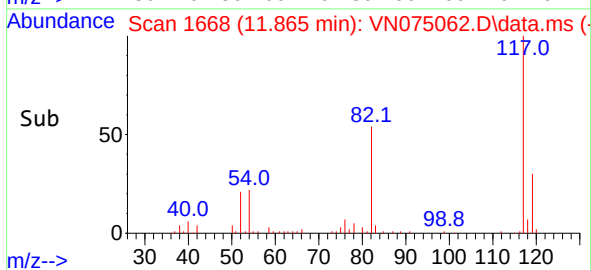
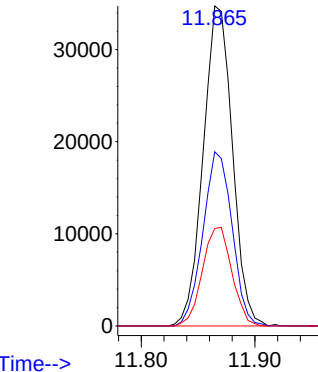
117 100

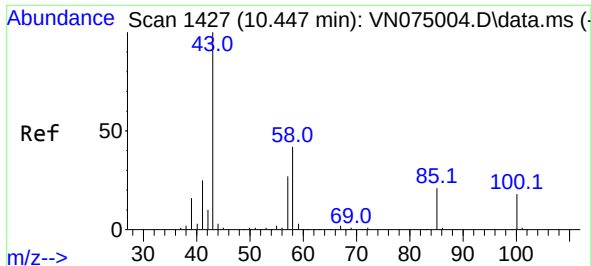
82 54.3 43.6 65.4

119 31.1 25.8 38.6



Abundance





#58

4-Methyl-2-Pentanone

Concen: 0.823 ug/l

RT: 10.435 min Scan# 14

Delta R.T. -0.012 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

Instrument :

MSVOA_N

ClientSampleId :

221026039-02-VOA

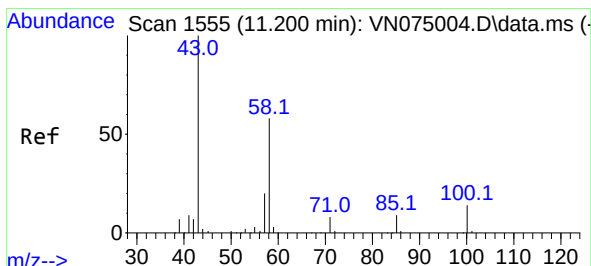
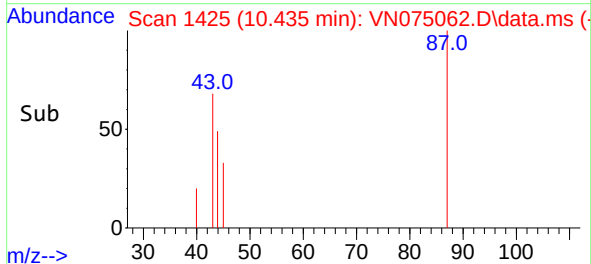
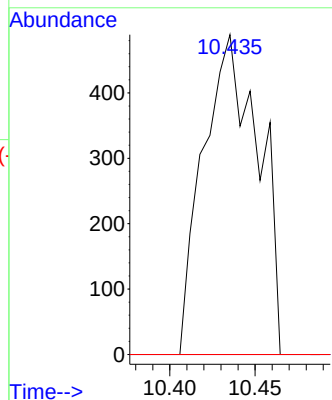
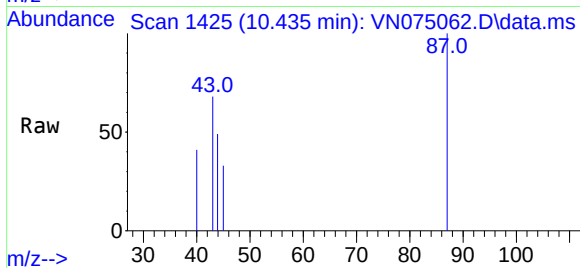
Tgt Ion: 43 Resp: 1101

Ion Ratio Lower Upper

43 100

58 0.0 30.0 45.0#

85 0.0 15.0 22.6#



#59

2-Hexanone

Concen: 2.023 ug/l

RT: 11.171 min Scan# 1550

Delta R.T. -0.029 min

Lab File: VN075062.D

Acq: 28 Oct 2022 15:48

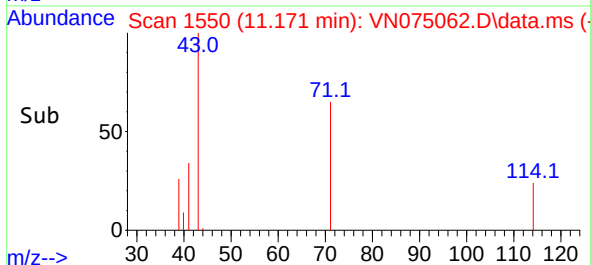
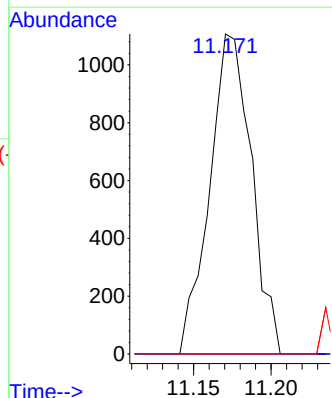
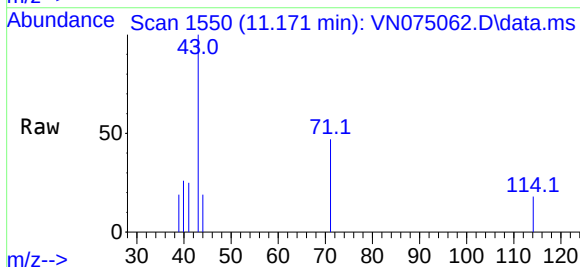
Tgt Ion: 43 Resp: 2076

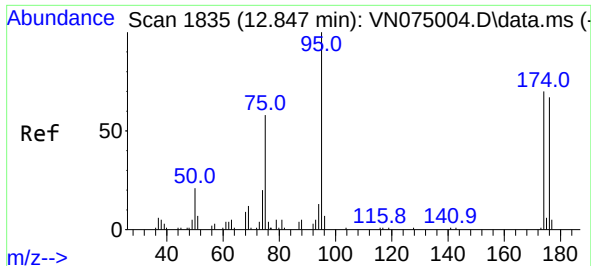
Ion Ratio Lower Upper

43 100

58 0.0 42.2 63.2#

57 0.0 15.0 22.4#

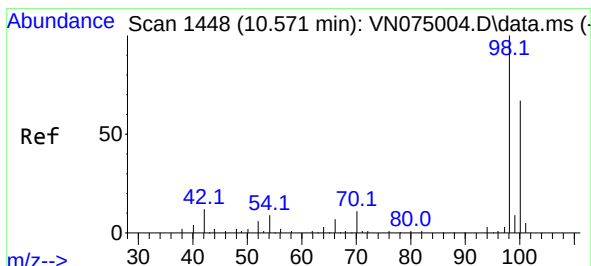
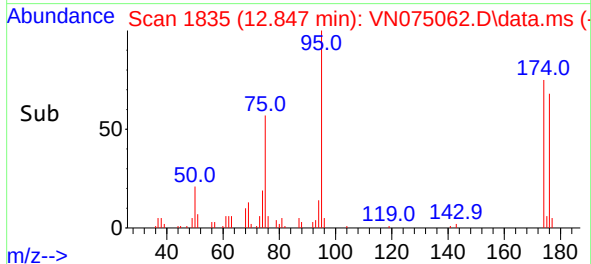
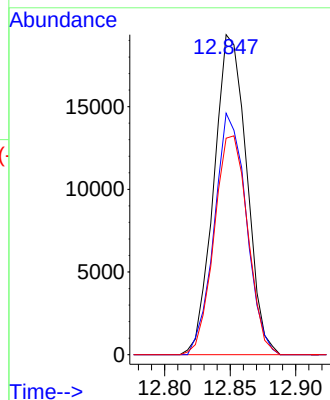
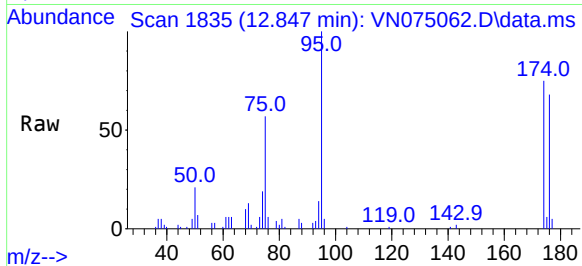




#60
4-Bromofluorobenzene
Concen: 27.563 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

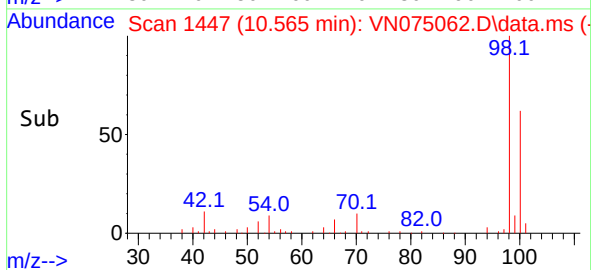
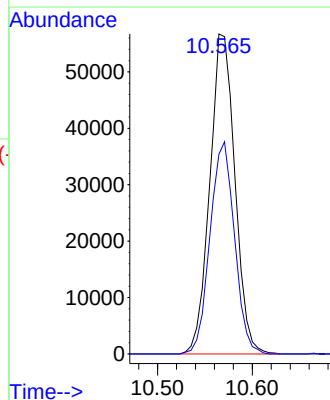
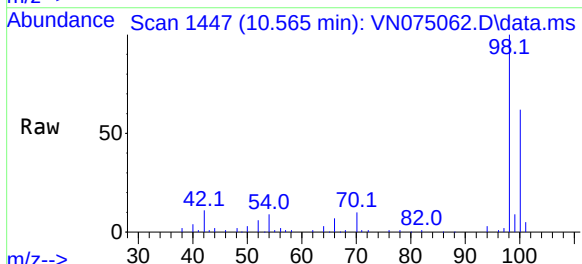
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

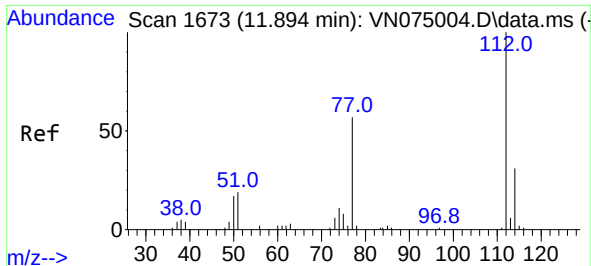
Tgt Ion: 95 Resp: 33589
Ion Ratio Lower Upper
95 100
174 73.7 62.9 94.3
176 70.2 61.0 91.4



#63
Toluene-d8
Concen: 30.123 ug/l
RT: 10.565 min Scan# 1447
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 98 Resp: 104493
Ion Ratio Lower Upper
98 100
100 64.6 50.6 76.0

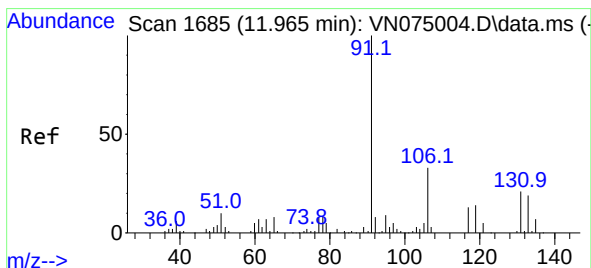
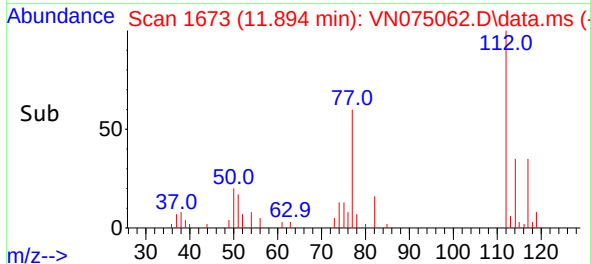
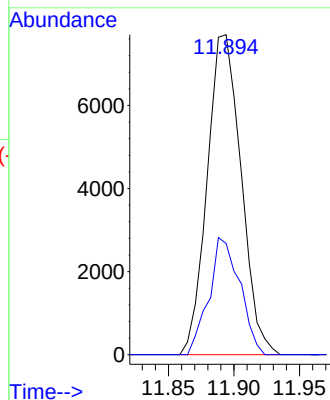
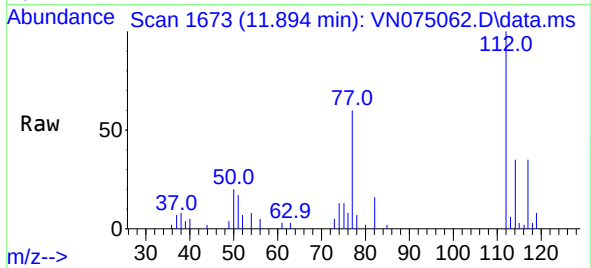




#64
Chlorobenzene
Concen: 5.572 ug/l
RT: 11.894 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

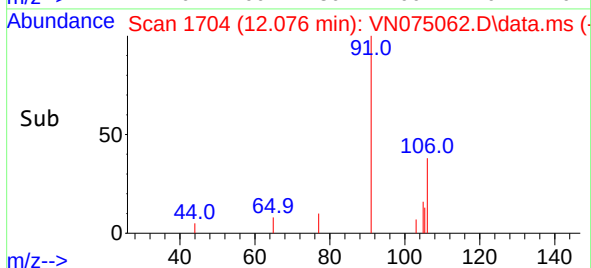
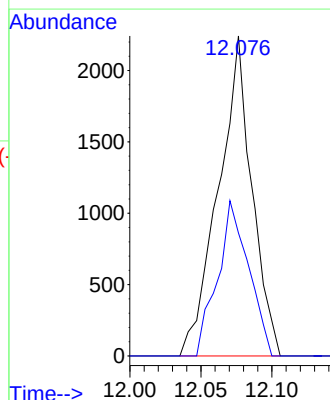
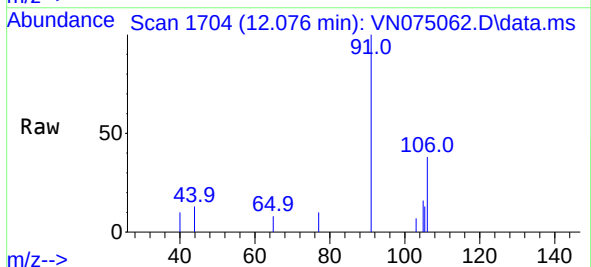
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

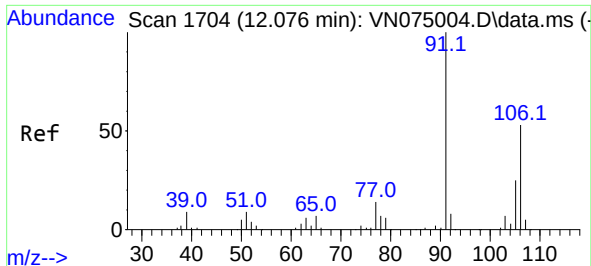
Tgt Ion:112 Resp: 13865
Ion Ratio Lower Upper
112 100
114 34.7 25.8 38.6



#66
Ethyl Benzene
Concen: 0.813 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.112 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 91 Resp: 3679
Ion Ratio Lower Upper
91 100
106 38.4 24.0 36.0#

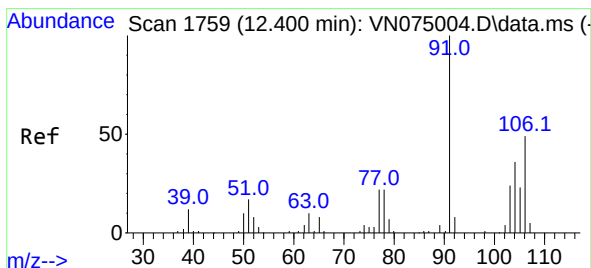
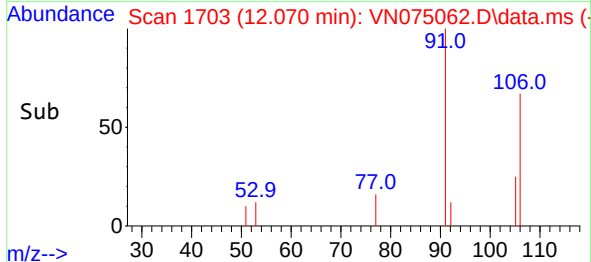
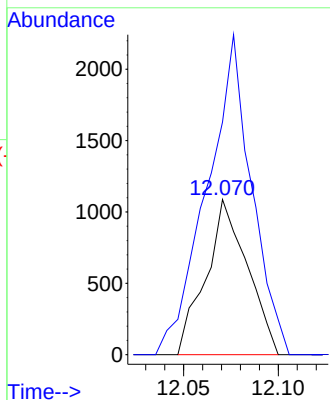
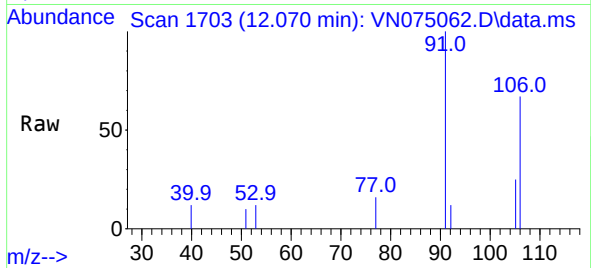




#67
m/p-Xylenes
Concen: 0.912 ug/l
RT: 12.070 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

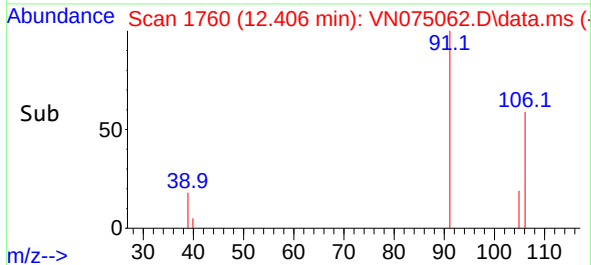
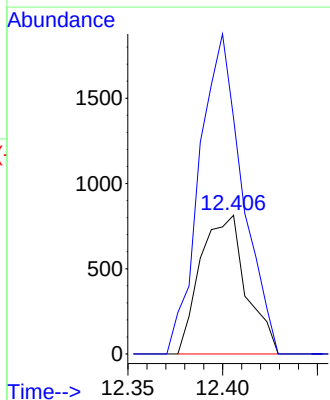
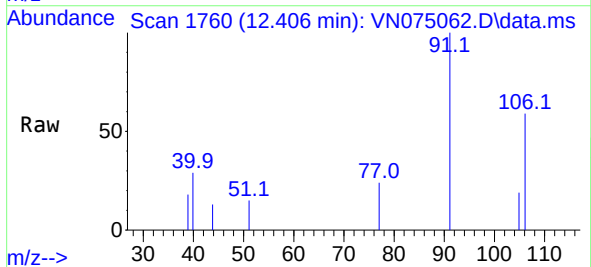
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

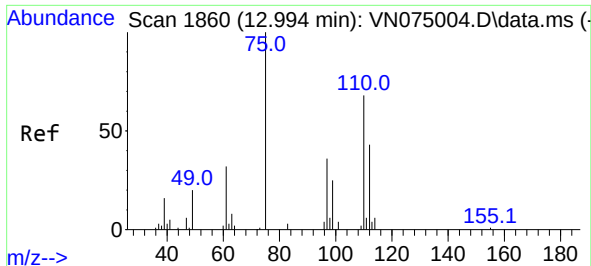
Tgt Ion:106 Resp: 1655
Ion Ratio Lower Upper
106 100
91 222.3 162.9 244.3



#68
o-Xylene
Concen: 0.748 ug/l
RT: 12.406 min Scan# 1760
Delta R.T. 0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion:106 Resp: 1364
Ion Ratio Lower Upper
106 100
91 216.9 107.7 323.1

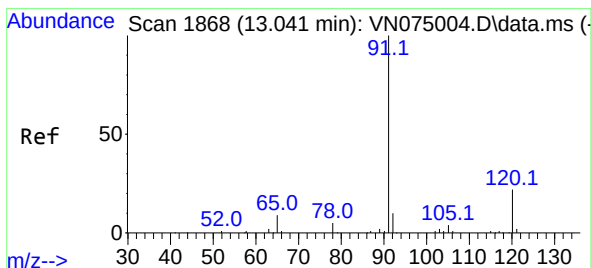
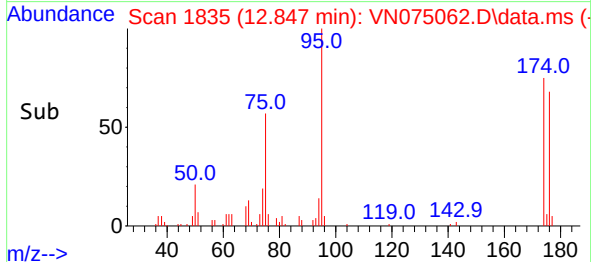
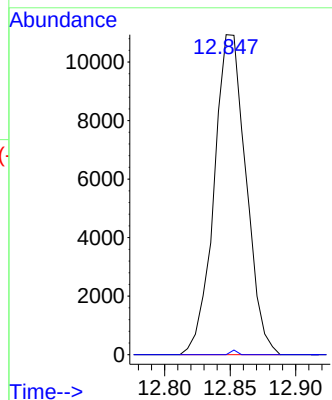
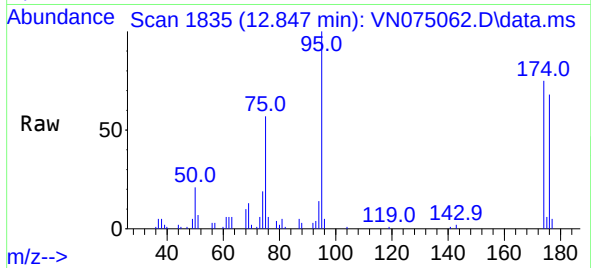




#72
1,2,3-Trichloropropane
Concen: 13.191 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

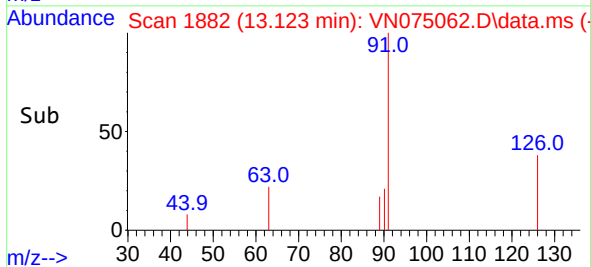
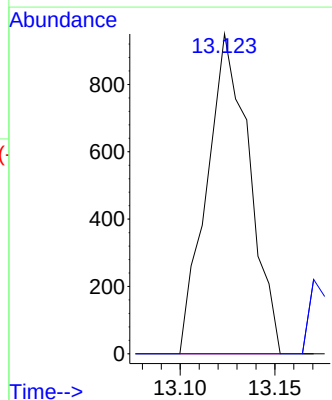
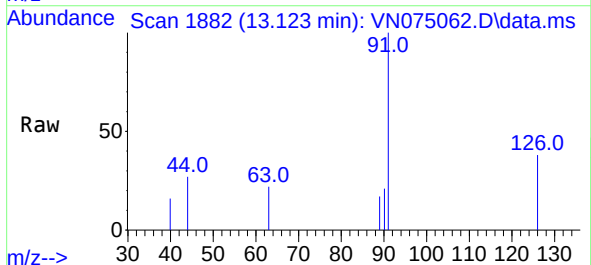
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

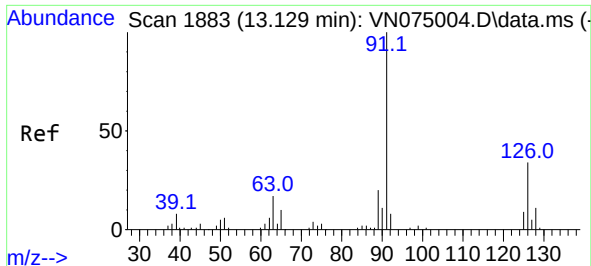
Tgt Ion: 75 Resp: 18548
Ion Ratio Lower Upper
75 100
77 0.3 0.0 378.0



#74
n-propylbenzene
Concen: 0.279 ug/l
RT: 13.123 min Scan# 1882
Delta R.T. 0.082 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 91 Resp: 1484
Ion Ratio Lower Upper
91 100
120 0.0 0.0 45.0

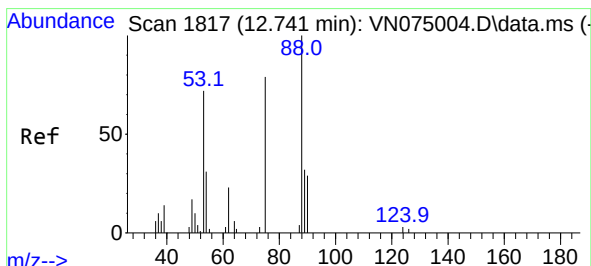
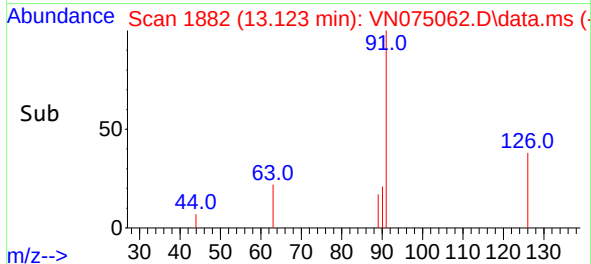
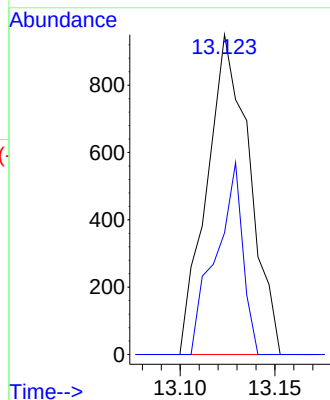
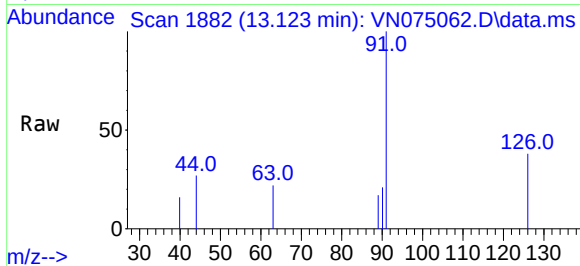




#75
2-Chlorotoluene
Concen: 0.458 ug/l
RT: 13.123 min Scan# 1882
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

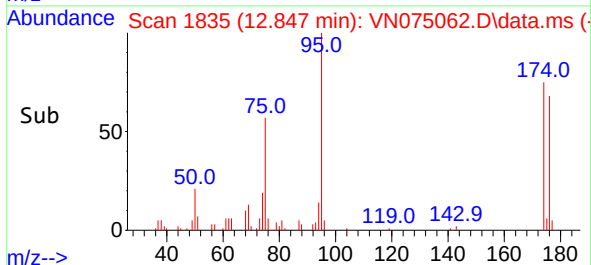
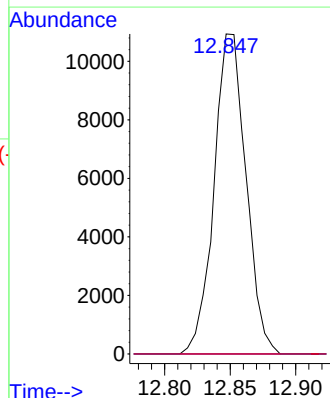
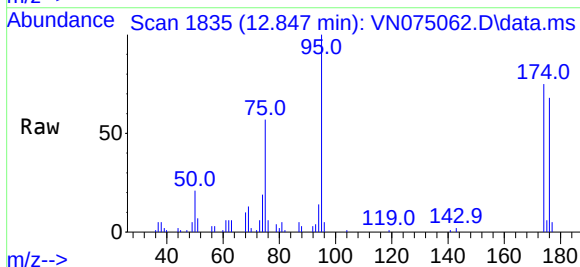
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

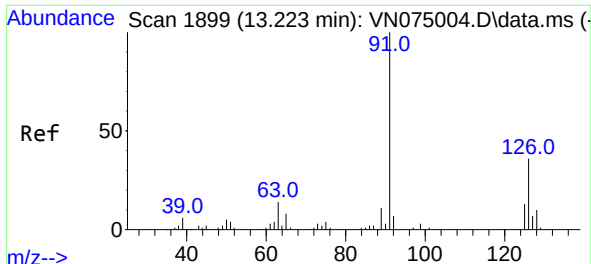
Tgt Ion: 91 Resp: 1484
Ion Ratio Lower Upper
91 100
126 38.3 0.0 69.8



#77
t-1,4-Dichloro-2-butene
Concen: 37.765 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.106 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 75 Resp: 18548
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

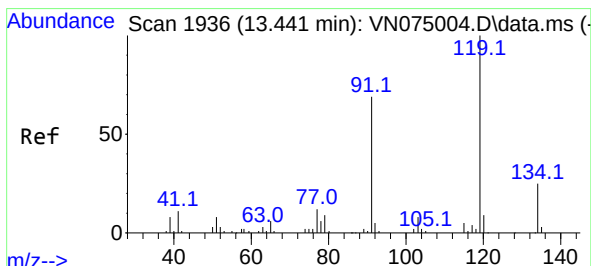
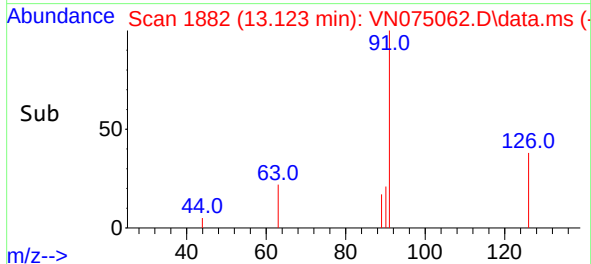
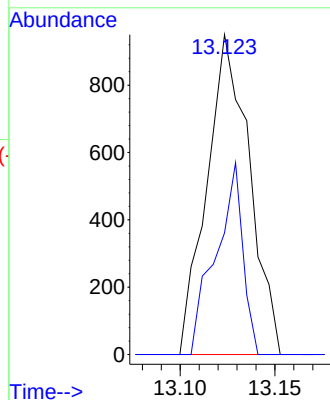
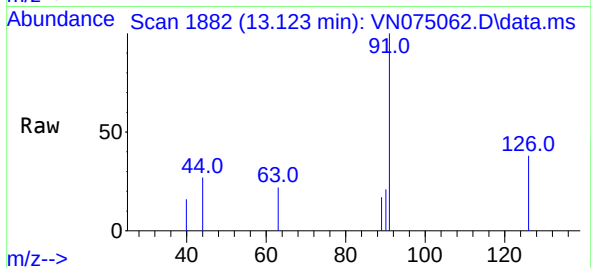




#78
4-Chlorotoluene
Concen: 0.472 ug/l
RT: 13.123 min Scan# 11
Delta R.T. -0.100 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

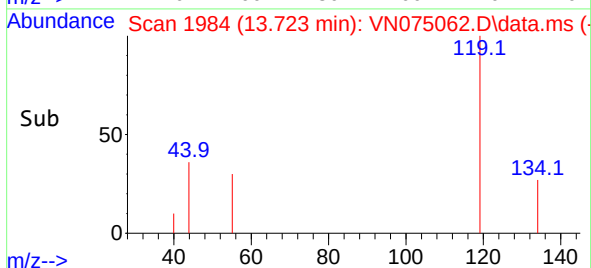
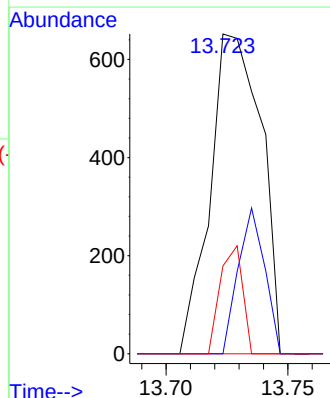
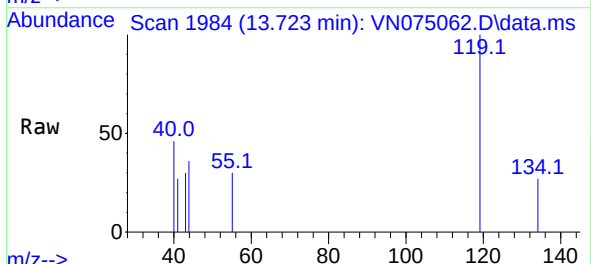
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

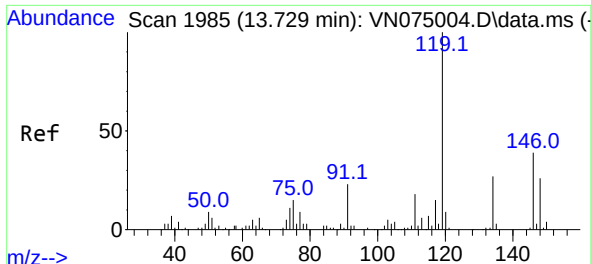
Tgt Ion: 91 Resp: 1484
Ion Ratio Lower Upper
91 100
126 38.3 0.0 70.6



#79
tert-butylbenzene
Concen: 0.264 ug/l
RT: 13.723 min Scan# 1984
Delta R.T. 0.282 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Tgt Ion: 119 Resp: 950
Ion Ratio Lower Upper
119 100
91 23.6 0.0 137.0
134 14.8 0.0 47.6

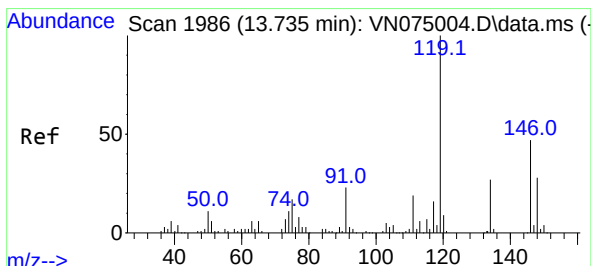
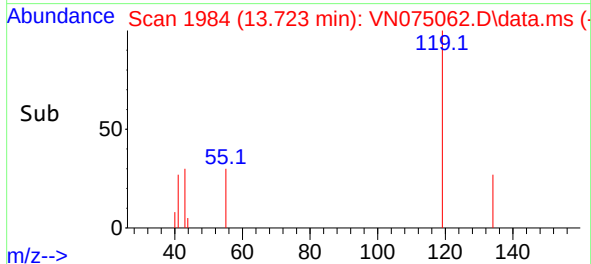
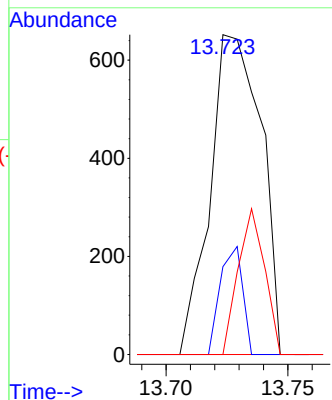
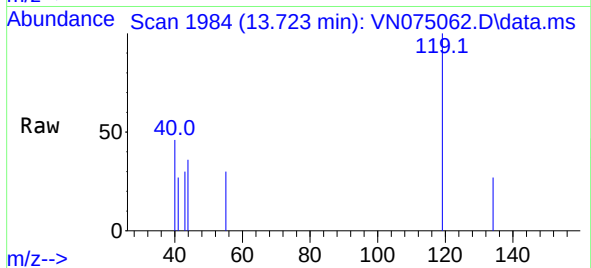




#82
p-Isopropyltoluene
Concen: 0.223 ug/l
RT: 13.723 min Scan# 1984
Delta R.T. -0.006 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

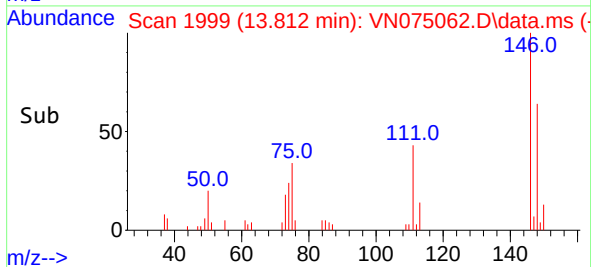
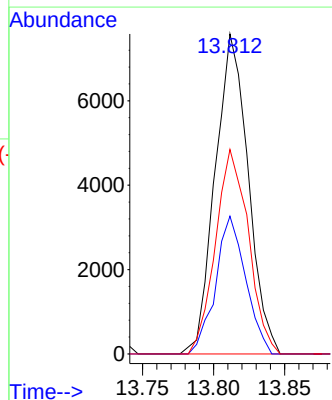
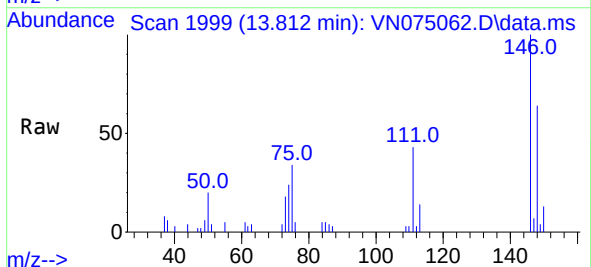
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

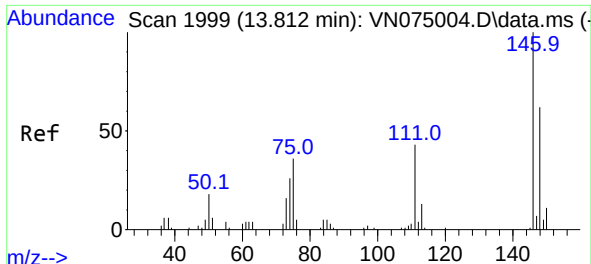
Tgt Ion:	119	Resp:	950
Ion	Ratio	Lower	Upper
119	100		
134	14.8	0.0	51.8
91	23.6	0.0	50.4



#83
1,3-Dichlorobenzene
Concen: 5.858 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. 0.076 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

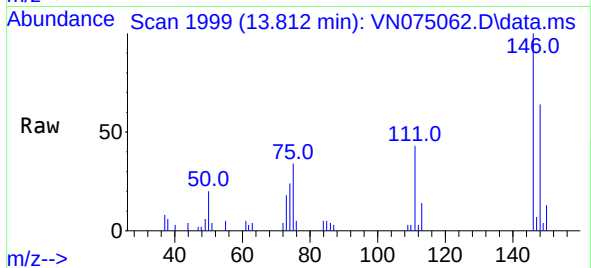
Tgt Ion:	146	Resp:	12257
Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.8	62.2
148	63.8	31.4	94.3



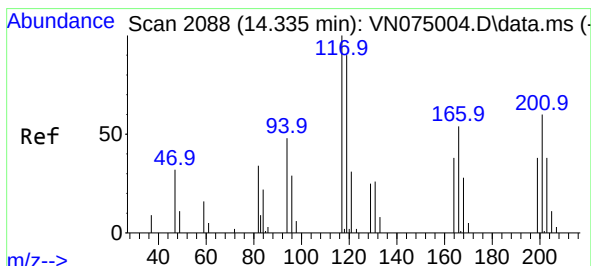
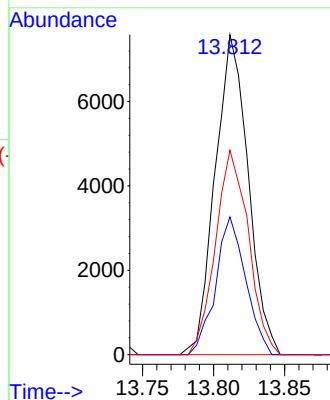
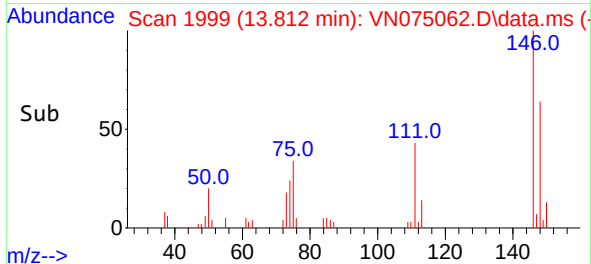


#84
1,4-Dichlorobenzene
Concen: 6.072 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

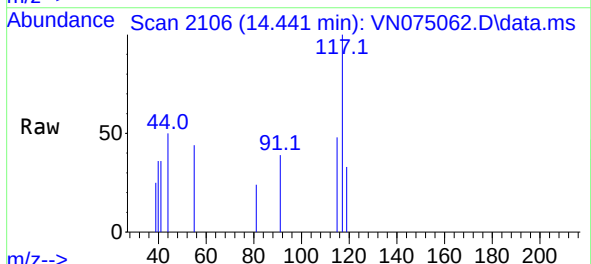
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA



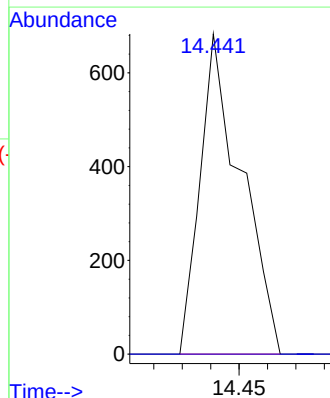
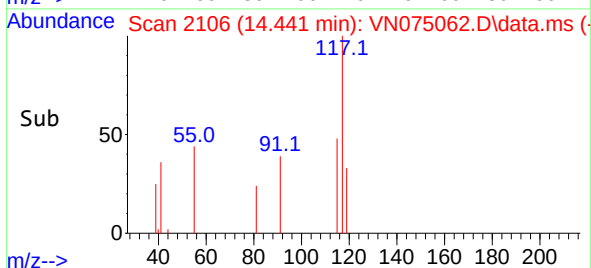
Tgt Ion:146 Resp: 12257
Ion Ratio Lower Upper
146 100
111 39.3 19.5 58.5
148 63.8 31.1 93.5

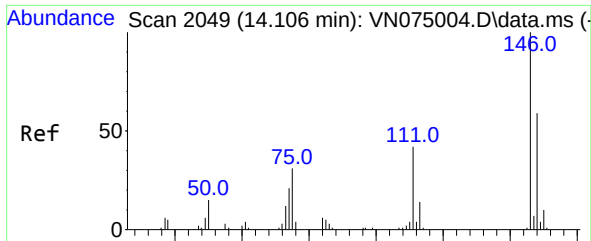


#86
Hexachloroethane
Concen: 0.868 ug/l
RT: 14.441 min Scan# 2106
Delta R.T. 0.106 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48



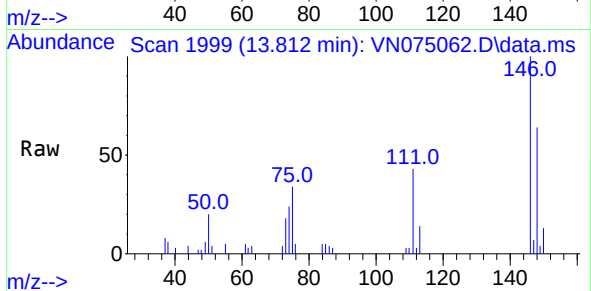
Tgt Ion:117 Resp: 686
Ion Ratio Lower Upper
117 100
201 0.0 33.3 99.8#





#87
1,2-Dichlorobenzene
Concen: 5.922 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. -0.294 min
Lab File: VN075062.D
Acq: 28 Oct 2022 15:48

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA



Tgt Ion:	146	Resp:	12257
Ion	Ratio	Lower	Upper
146	100		
111	39.3	21.4	64.2
148	63.8	32.5	97.4

