

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072922\
 Data File : VN073637.D
 Acq On : 29 Jul 2022 16:09
 Operator : JC\MD
 Sample : N3975-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220727100-02-VOA

Quant Time: Aug 01 03:39:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

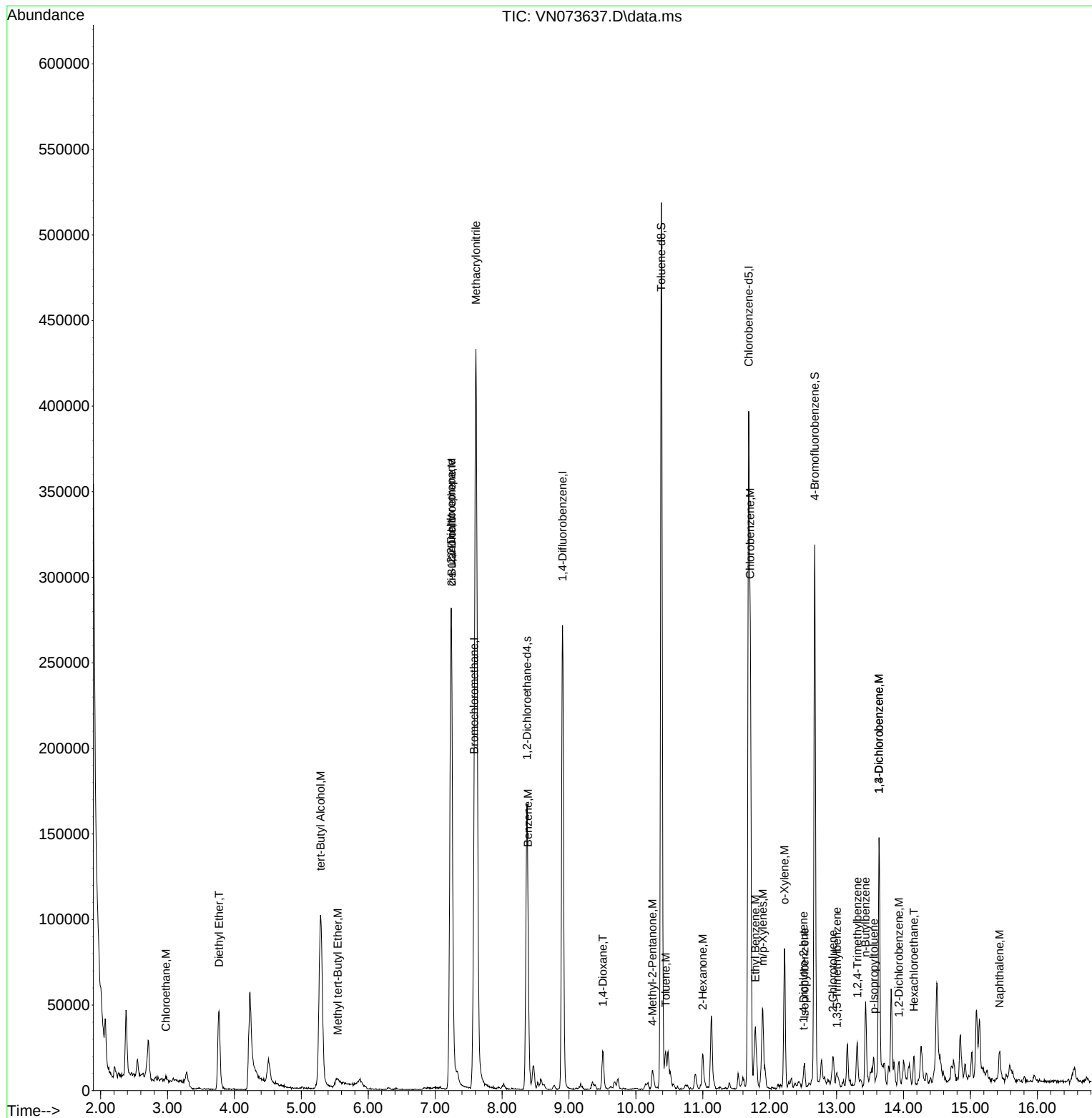
Internal Standards						
1) Bromochloromethane	7.581	128	46805	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	249646	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	219941	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.375	65	126978	31.377	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.600%
60) 4-Bromofluorobenzene	12.674	95	104214	26.760	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.200%
63) Toluene-d8	10.380	98	358106	28.916	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.400%
Target Compounds						
					Qvalue	
6) Chloroethane	2.975	64	2434	0.696	ug/l #	71
8) Diethyl Ether	3.769	74	27584	13.500	ug/l	96
22) cis-1,2-Dichloroethene	7.245	96	1128	0.289	ug/l #	1
23) tert-Butyl Alcohol	5.287	59	185487	228.356	ug/l #	100
24) Methyl tert-Butyl Ether	5.546	73	7548	0.731	ug/l #	55
30) 2-Butanone	7.245	43	15844	4.914	ug/l #	74
31) 2,2-Dichloropropane	7.240	77	19067	3.917	ug/l #	53
34) Benzene	8.386	78	26083	1.728	ug/l #	1
35) Methacrylonitrile	7.610	41	175552	67.067	ug/l #	44
45) 1,4-Dioxane	9.504	88	16406	161.627	ug/l	95
58) 4-Methyl-2-Pentanone	10.245	43	4453	0.783	ug/l #	76
59) 2-Hexanone	10.998	43	17364	3.964	ug/l #	40
62) Toluene	10.445	91	12160	0.795	ug/l	91
64) Chlorobenzene	11.710	112	131709	14.413	ug/l	100
66) Ethyl Benzene	11.786	91	19720	1.206	ug/l	90
67) m/p-Xylenes	11.898	106	15098	2.416	ug/l	87
68) o-Xylene	12.222	106	21468	3.458	ug/l	96
70) Isopropylbenzene	12.522	105	5670	0.357	ug/l	96
75) 2-Chlorotoluene	12.945	91	8803	0.795	ug/l	95
76) 1,3,5-Trimethylbenzene	13.004	105	3420	0.257	ug/l	96
77) t-1,4-Dichloro-2-butene	12.504	75	713	0.420	ug/l #	8
80) 1,2,4-Trimethylbenzene	13.310	105	12737	0.967	ug/l #	79
82) p-Isopropyltoluene	13.557	119	4966	0.367	ug/l	91
83) 1,3-Dichlorobenzene	13.633	146	55183	7.647	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	55183	7.927	ug/l	98
85) n-Butylbenzene	13.433	91	2266	0.206	ug/l	66
86) Hexachloroethane	14.157	117	1075	0.433	ug/l #	17
87) 1,2-Dichlorobenzene	13.933	146	4362	0.598	ug/l	99
91) Naphthalene	15.433	128	17343	1.315	ug/l #	96

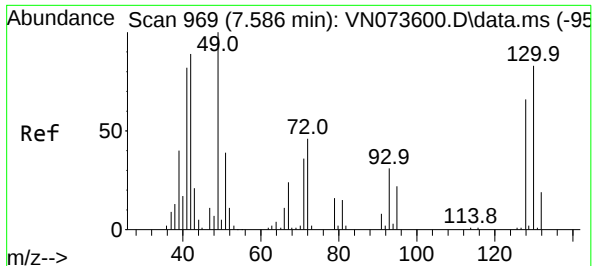
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072922\
Data File : VN073637.D
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Instrument :
MSVOA_N
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220727100-02-VOA

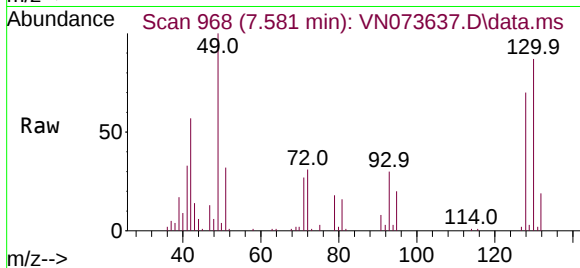
Quant Time: Aug 01 03:39:10 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
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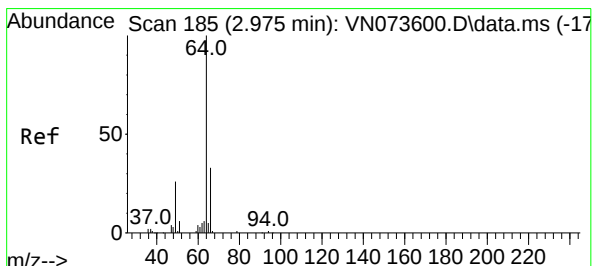
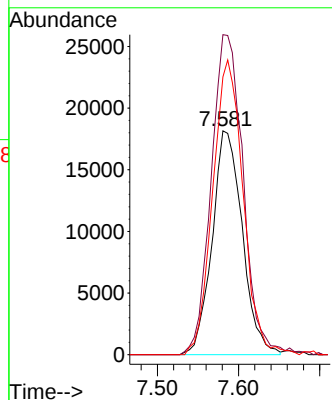
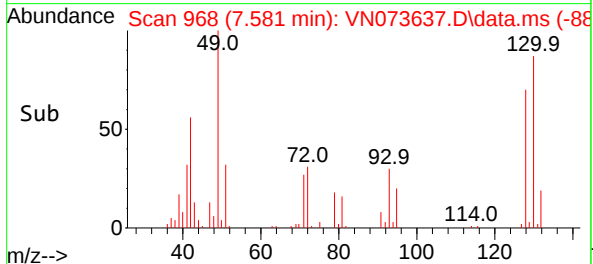


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.581 min Scan# 968
Delta R.T. -0.005 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

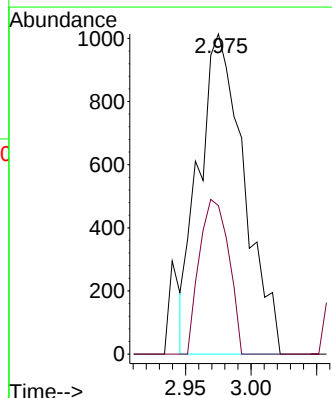
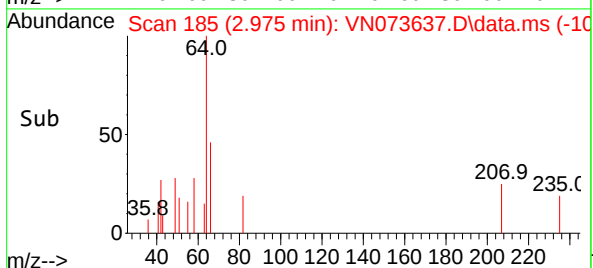
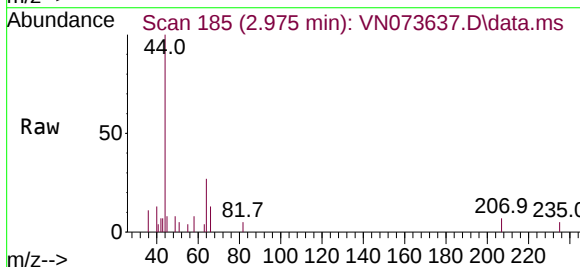


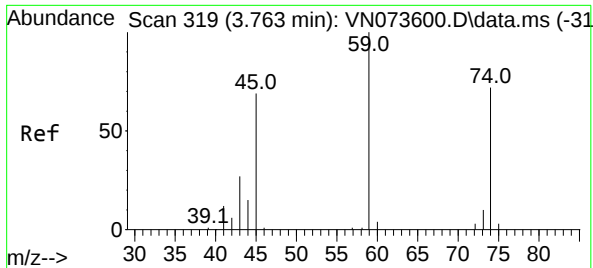
Tgt Ion:128 Resp: 46805
Ion Ratio Lower Upper
128 100
49 150.1 0.0 392.3
130 133.0 0.0 320.2



#6
Chloroethane
Concen: 0.696 ug/l
RT: 2.975 min Scan# 185
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 64 Resp: 2434
Ion Ratio Lower Upper
64 100
66 46.4 24.6 36.8#

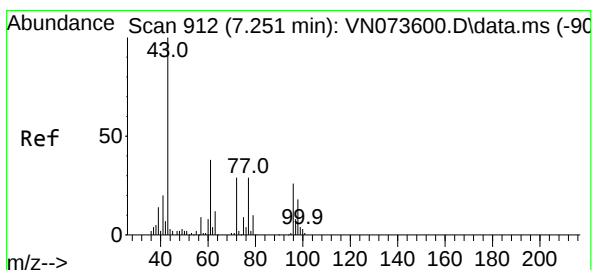
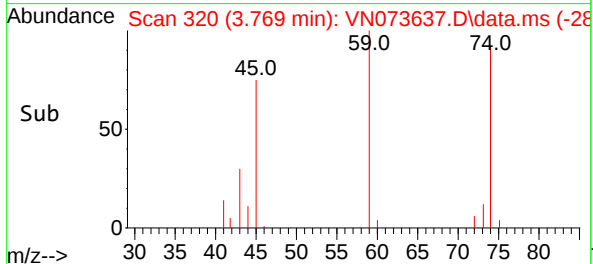
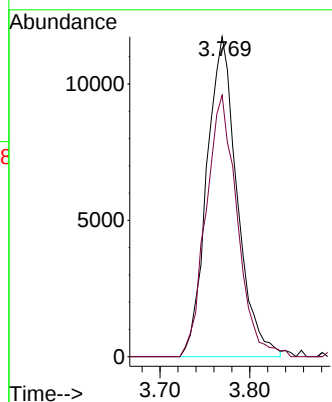
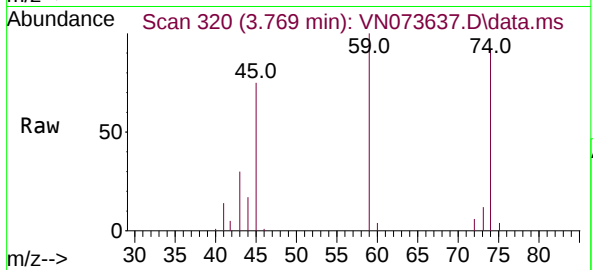




#8
Diethyl Ether
Concen: 13.500 ug/l
RT: 3.769 min Scan# 319
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

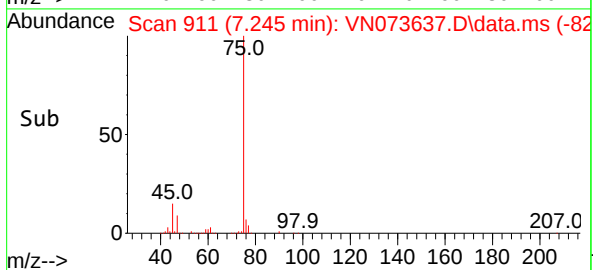
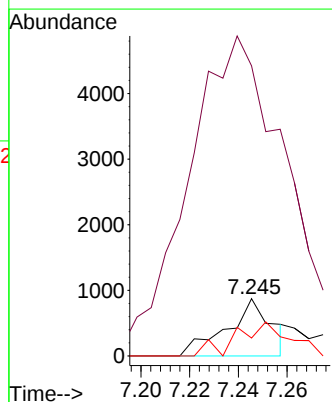
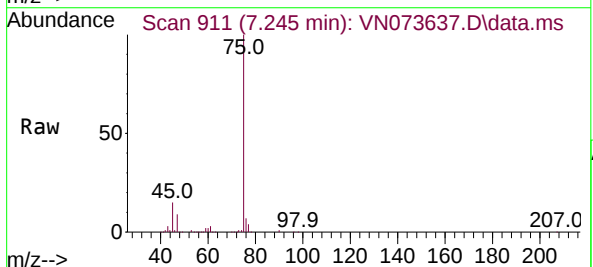
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

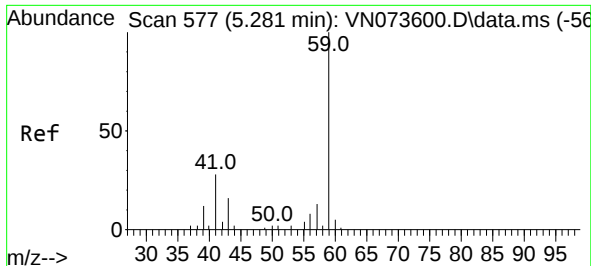
Tgt Ion: 74 Resp: 27584
Ion Ratio Lower Upper
74 100
45 84.2 17.6 158.8



#22
cis-1,2-Dichloroethene
Concen: 0.289 ug/l
RT: 7.245 min Scan# 911
Delta R.T. -0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 96 Resp: 1128
Ion Ratio Lower Upper
96 100
61 1263.4 115.7 173.5#
98 55.1 51.6 77.4

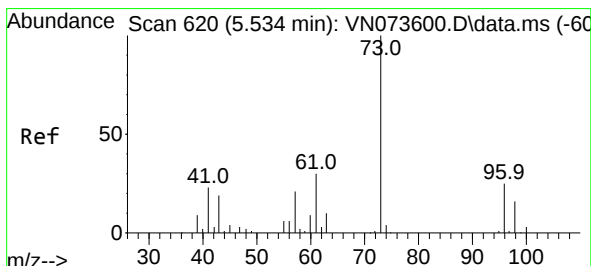
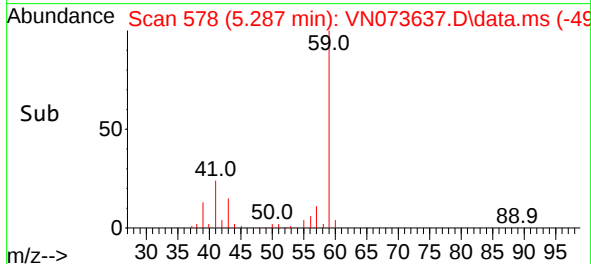
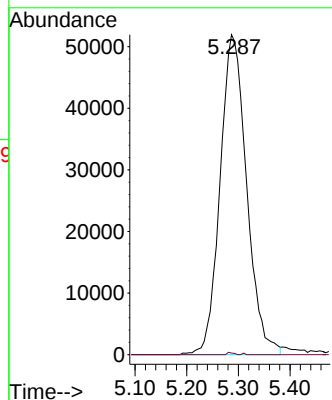
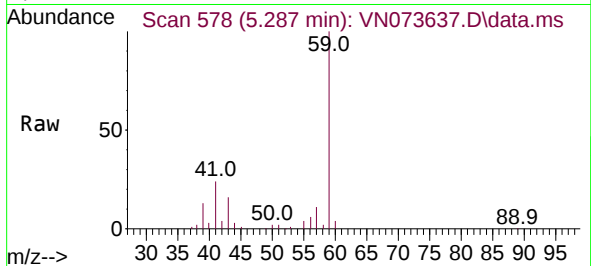




#23
tert-Butyl Alcohol
Concen: 228.356 ug/l
RT: 5.287 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

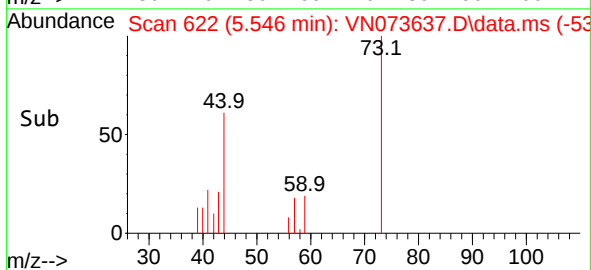
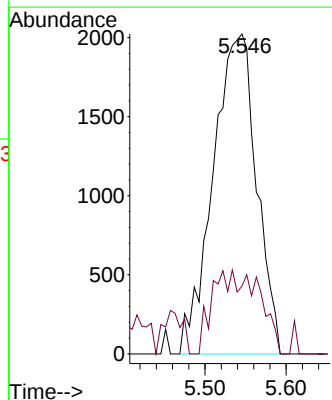
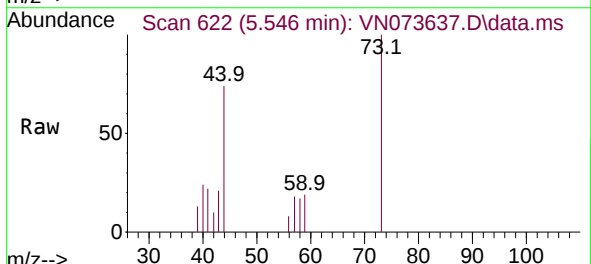
Instrument :
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ClientSampleId :
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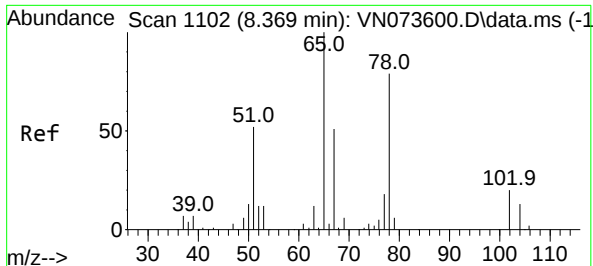
Tgt Ion: 59 Resp: 185487
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#



#24
Methyl tert-Butyl Ether
Concen: 0.731 ug/l
RT: 5.546 min Scan# 622
Delta R.T. 0.012 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 73 Resp: 7548
Ion Ratio Lower Upper
73 100
43 1.0 18.1 27.1#

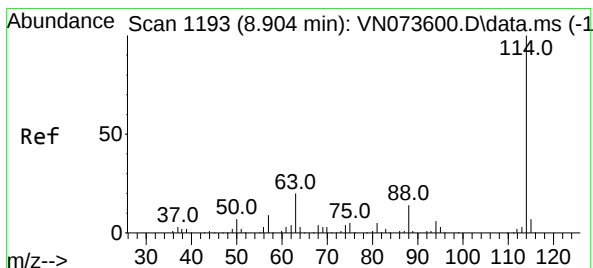
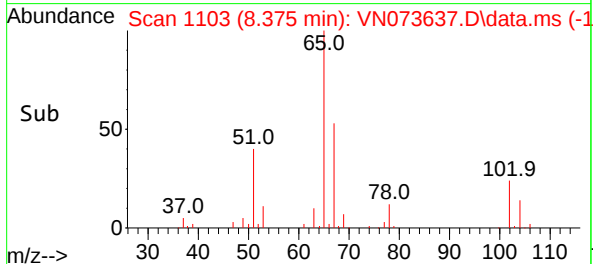
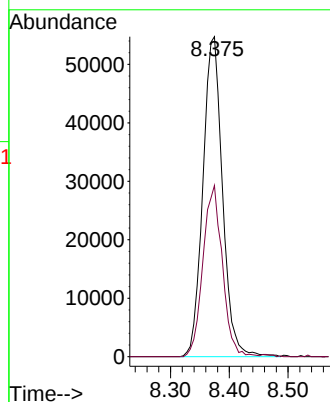
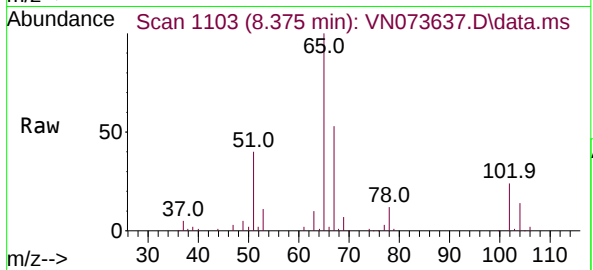




#27
1,2-Dichloroethane-d4
Concen: 31.377 ug/l
RT: 8.375 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

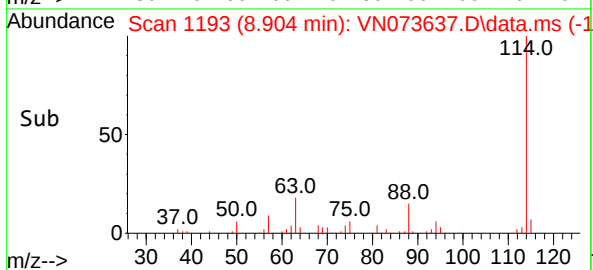
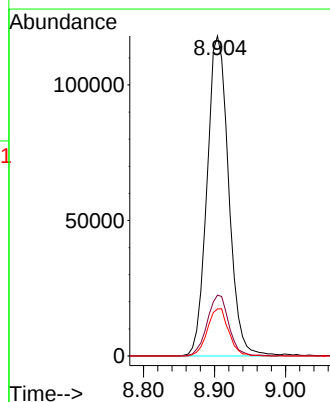
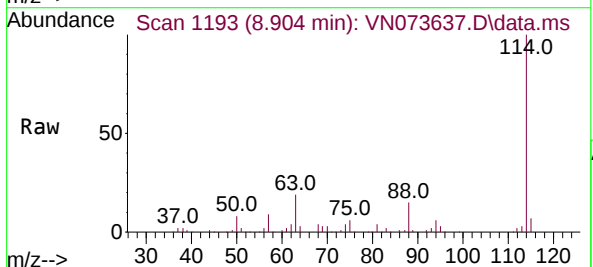
Instrument :
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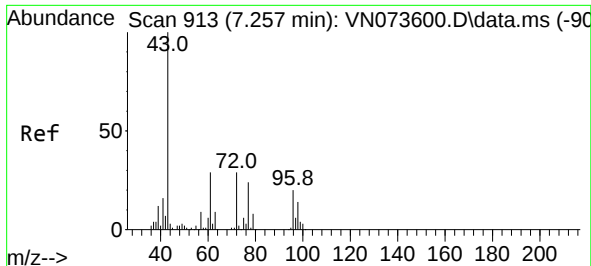
Tgt Ion: 65 Resp: 126978
Ion Ratio Lower Upper
65 100
67 52.5 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 114 Resp: 249646
Ion Ratio Lower Upper
114 100
63 19.0 15.8 23.6
88 14.4 11.6 17.4

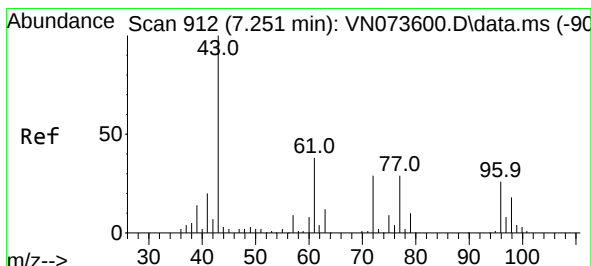
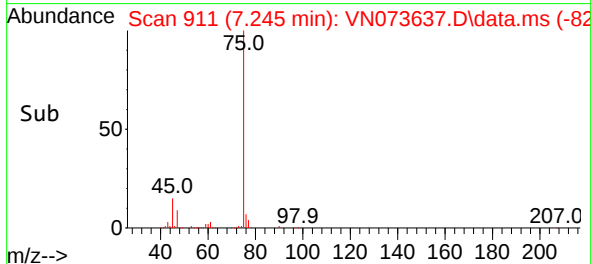
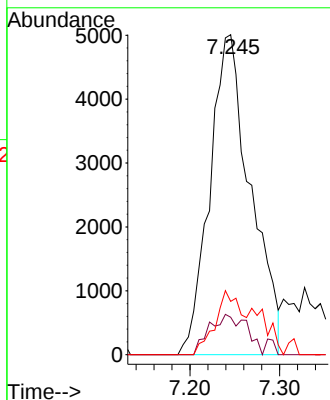
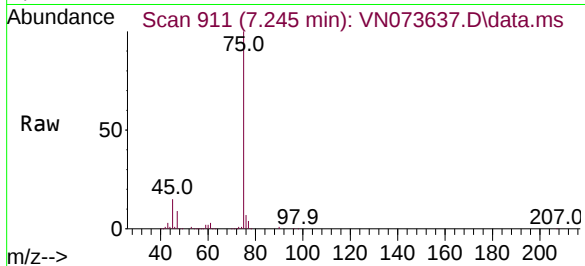




#30
2-Butanone
Concen: 4.914 ug/l
RT: 7.245 min Scan# 910
Delta R.T. -0.012 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

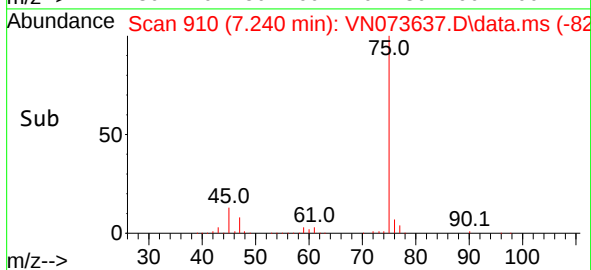
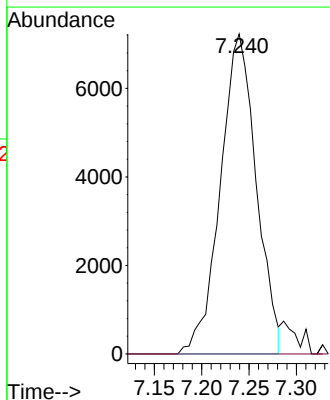
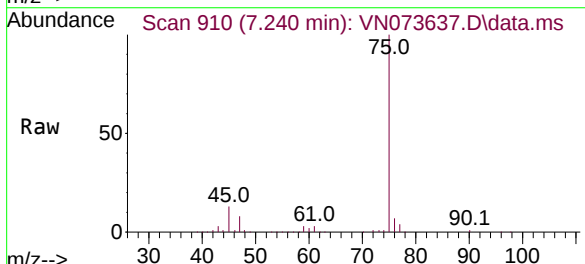
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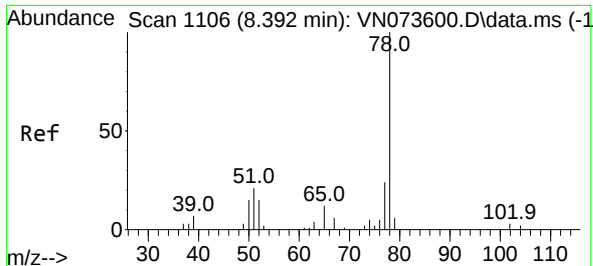
Tgt Ion: 43 Resp: 15844
Ion Ratio Lower Upper
43 100
57 4.8 6.7 10.1#
72 12.9 23.2 34.8#



#31
2,2-Dichloropropane
Concen: 3.917 ug/l
RT: 7.240 min Scan# 910
Delta R.T. -0.012 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 77 Resp: 19067
Ion Ratio Lower Upper
77 100
97 0.0 18.3 27.5#

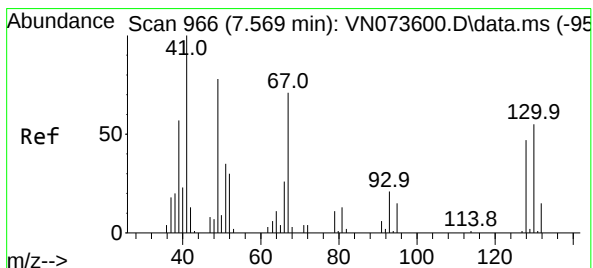
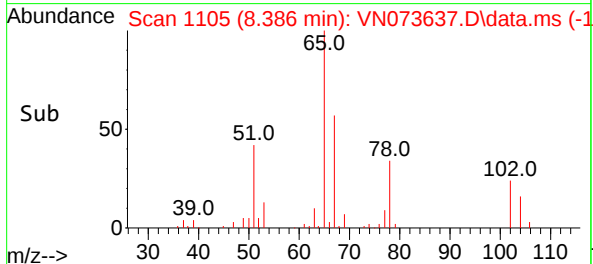
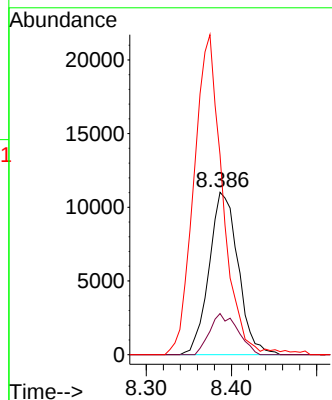
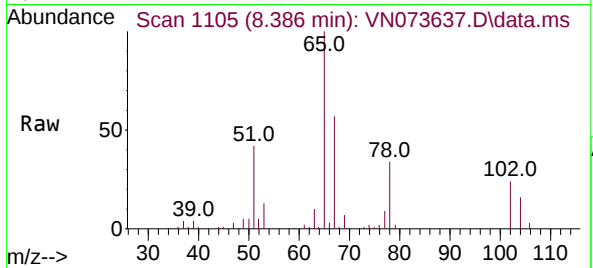




#34
Benzene
Concen: 1.728 ug/l
RT: 8.386 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

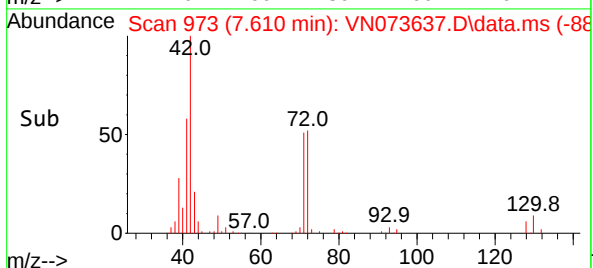
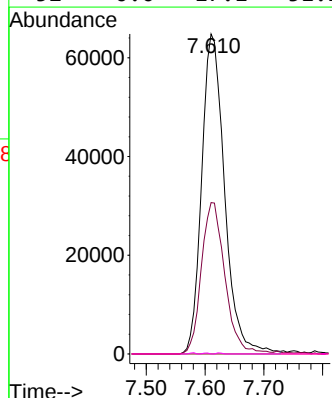
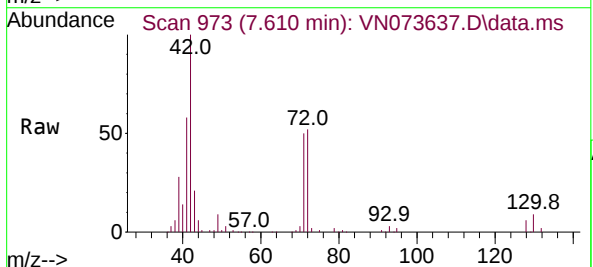
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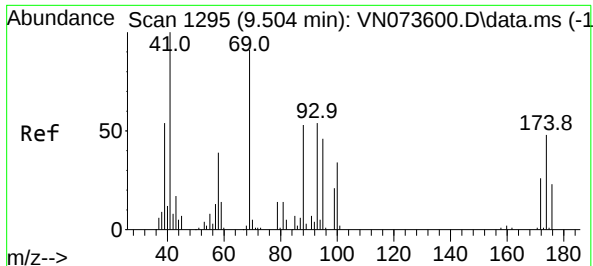
Tgt Ion: 78 Resp: 26083
Ion Ratio Lower Upper
78 100
77 25.3 19.1 28.7
51 121.2 16.0 24.0#



#35
Methacrylonitrile
Concen: 67.067 ug/l
RT: 7.610 min Scan# 973
Delta R.T. 0.041 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 41 Resp: 175552
Ion Ratio Lower Upper
41 100
39 47.3 28.0 83.9
67 0.0 37.7 113.1#
52 0.0 17.1 51.2#

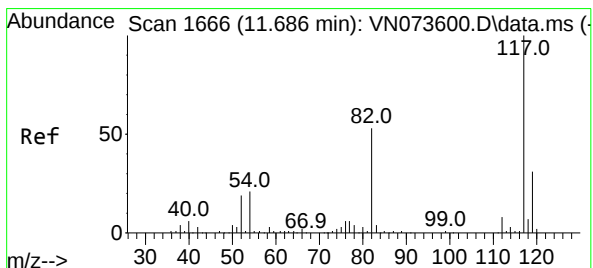
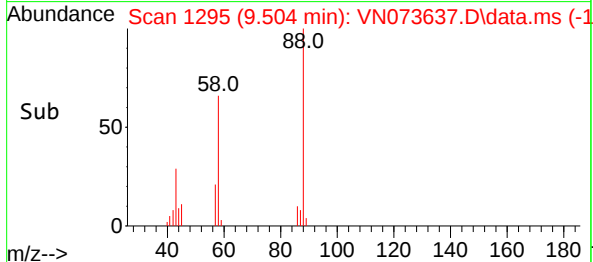
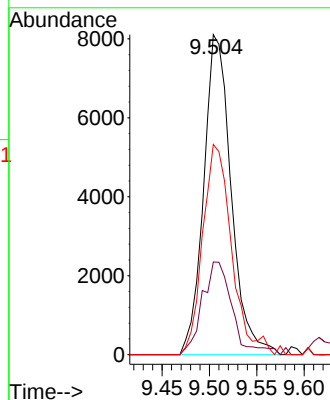
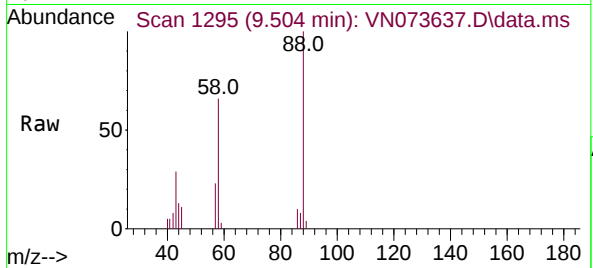




#45
1,4-Dioxane
Concen: 161.627 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

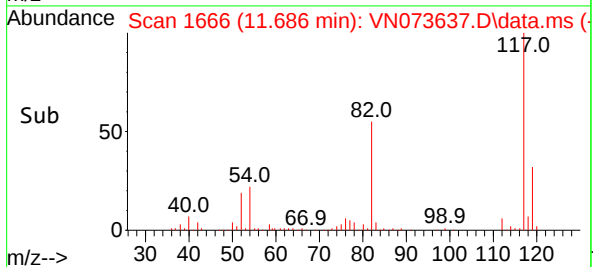
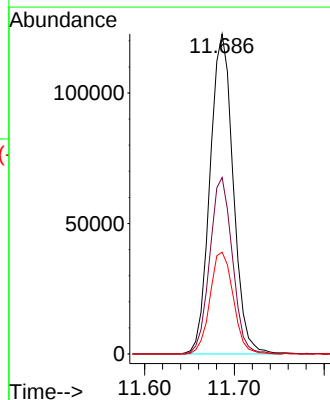
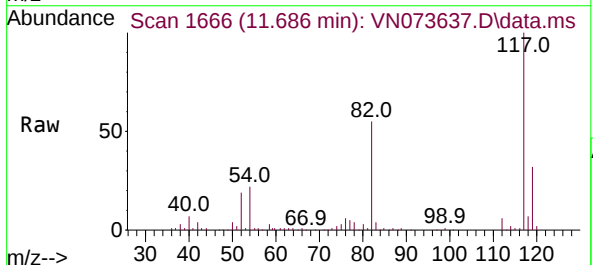
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

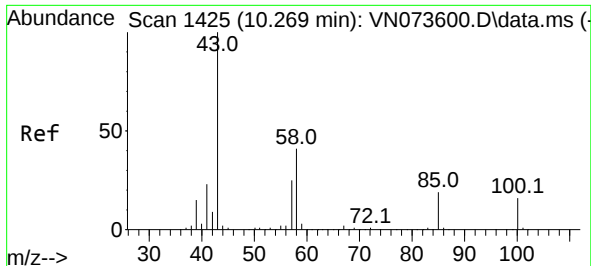
Tgt Ion: 88 Resp: 16406
Ion Ratio Lower Upper
88 100
43 29.6 25.0 37.6
58 66.8 49.4 74.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 117 Resp: 219941
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 32.0 25.8 38.6

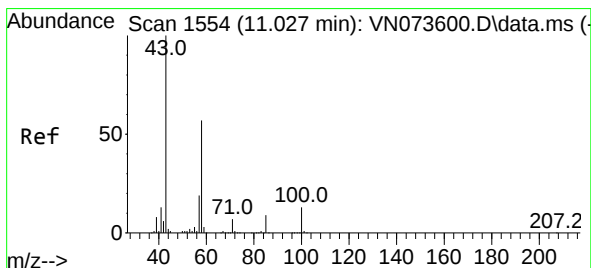
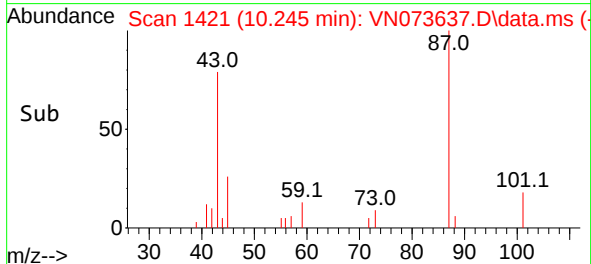
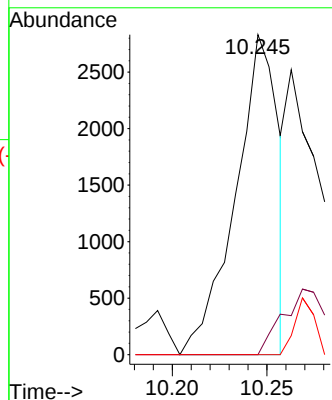
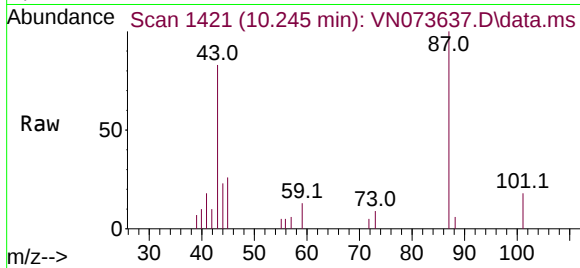




#58
4-Methyl-2-Pentanone
Concen: 0.783 ug/l
RT: 10.245 min Scan# 1421
Delta R.T. -0.023 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

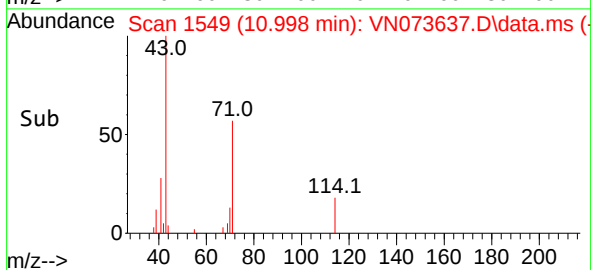
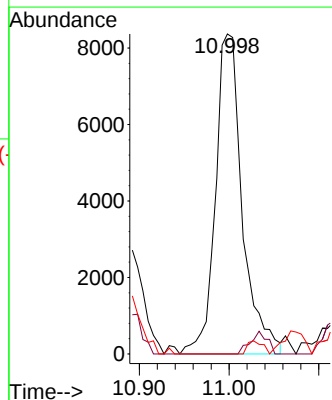
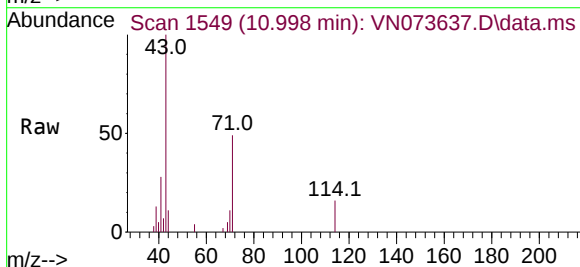
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

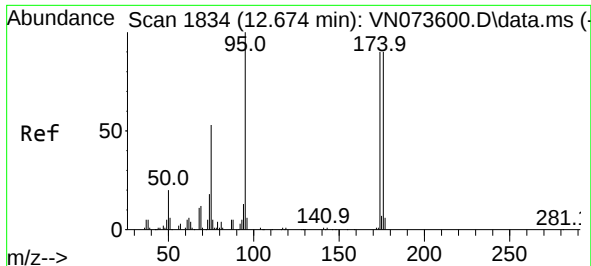
Tgt Ion: 43 Resp: 4453
Ion Ratio Lower Upper
43 100
58 22.8 30.0 45.0#
85 8.1 15.0 22.6#



#59
2-Hexanone
Concen: 3.964 ug/l
RT: 10.998 min Scan# 1549
Delta R.T. -0.029 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 43 Resp: 17364
Ion Ratio Lower Upper
43 100
58 4.5 42.2 63.2#
57 2.3 15.0 22.4#

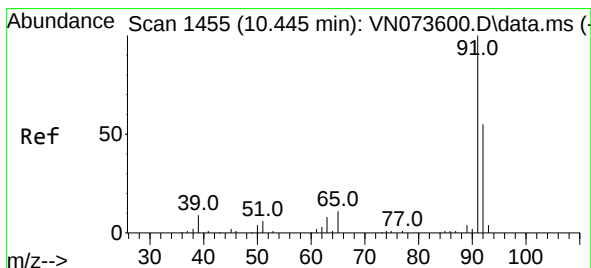
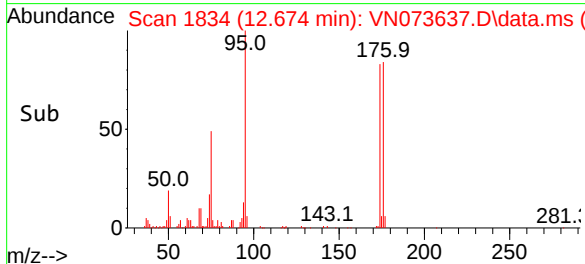
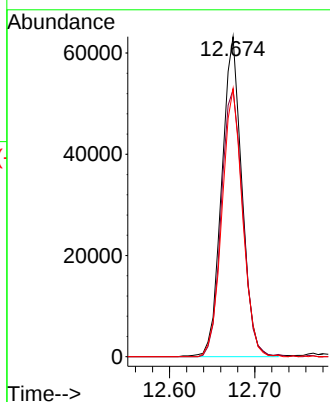
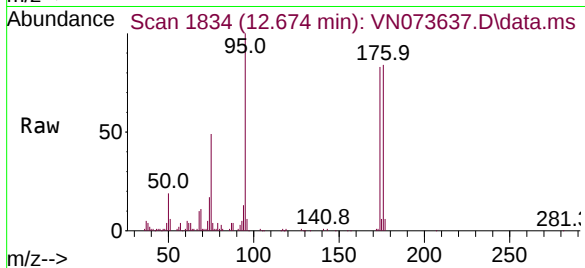




#60
4-Bromofluorobenzene
Concen: 26.760 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

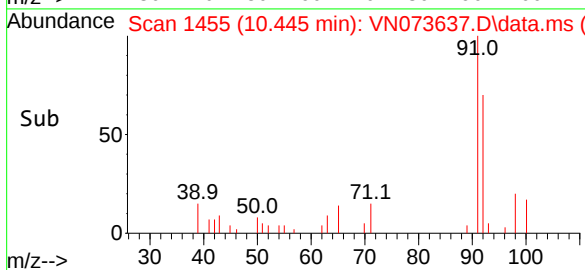
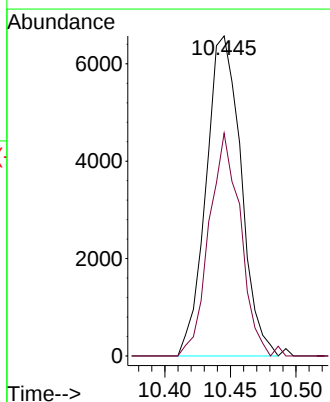
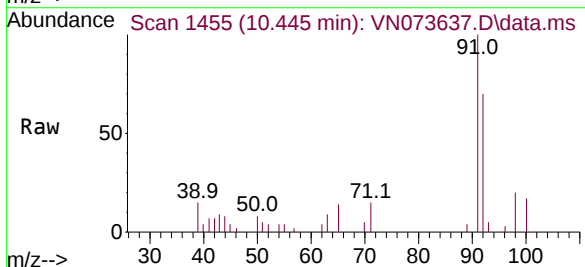
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

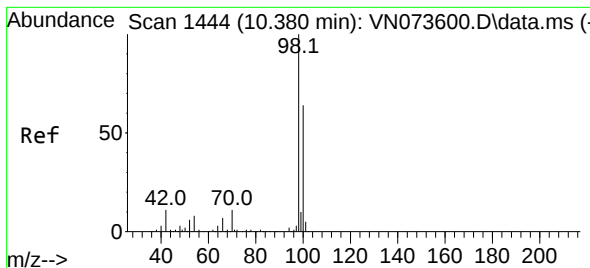
Tgt Ion: 95 Resp: 104214
Ion Ratio Lower Upper
95 100
174 88.4 62.9 94.3
176 85.0 61.0 91.4



#62
Toluene
Concen: 0.795 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 91 Resp: 12160
Ion Ratio Lower Upper
91 100
92 62.4 44.6 67.0





#63

Toluene-d8

Concen: 28.916 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN073637.D

Acq: 29 Jul 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

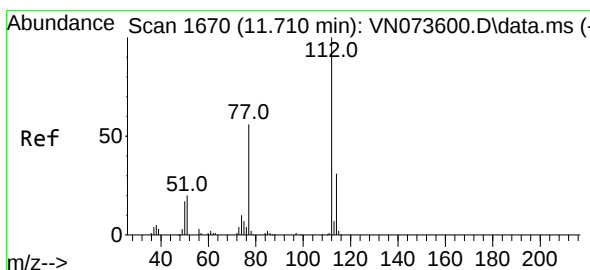
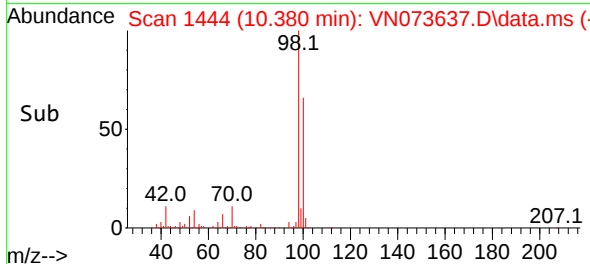
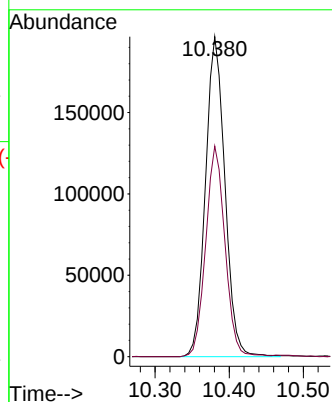
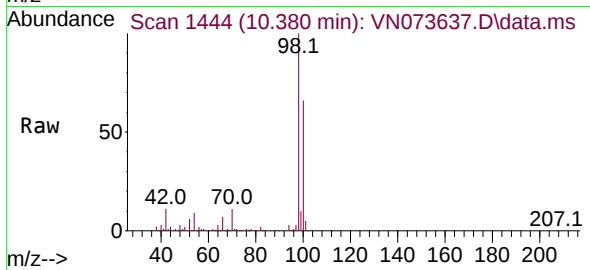
220727100-02-VOA

Tgt Ion: 98 Resp: 358106

Ion Ratio Lower Upper

98 100

100 65.0 50.6 76.0



#64

Chlorobenzene

Concen: 14.413 ug/l

RT: 11.710 min Scan# 1670

Delta R.T. 0.000 min

Lab File: VN073637.D

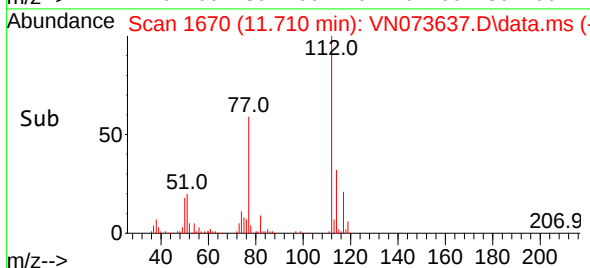
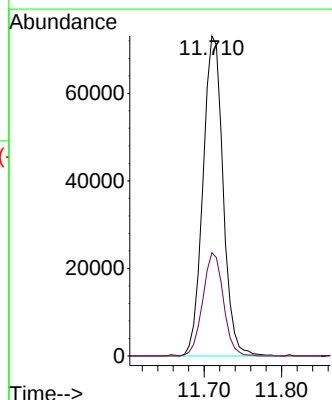
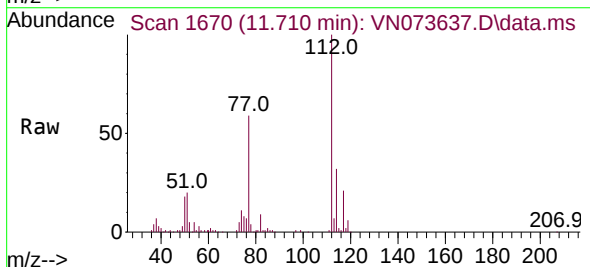
Acq: 29 Jul 2022 16:09

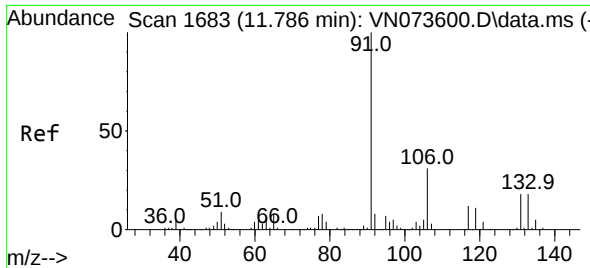
Tgt Ion: 112 Resp: 131709

Ion Ratio Lower Upper

112 100

114 32.3 25.8 38.6

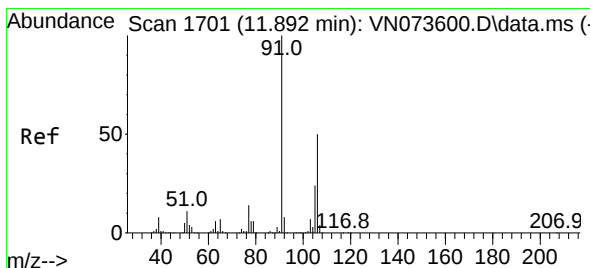
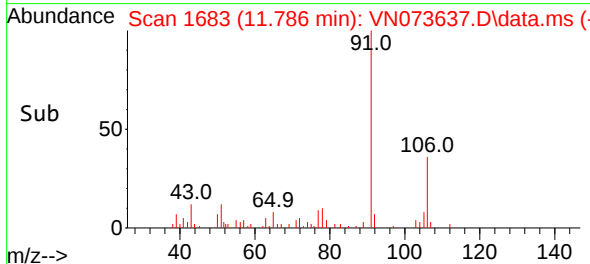
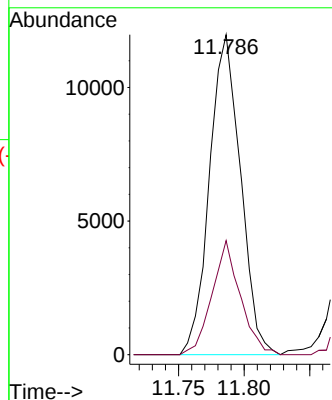
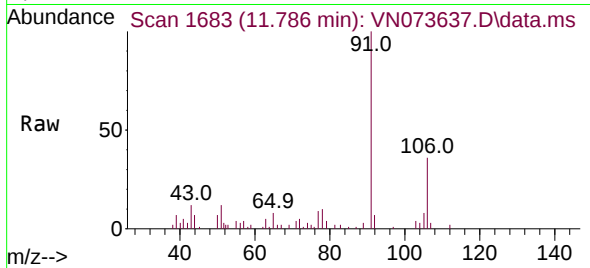




#66
Ethyl Benzene
Concen: 1.206 ug/l
RT: 11.786 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

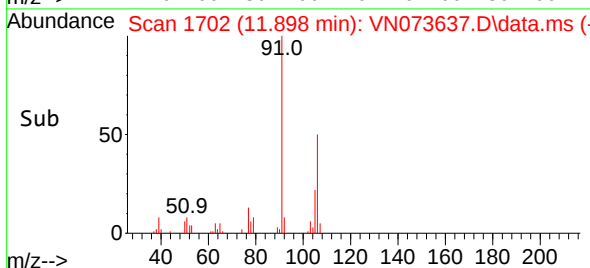
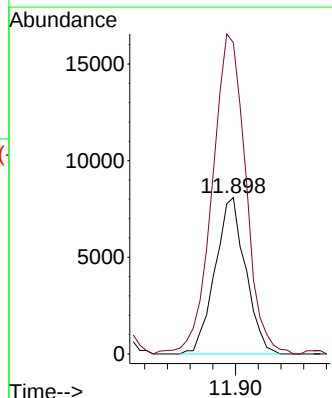
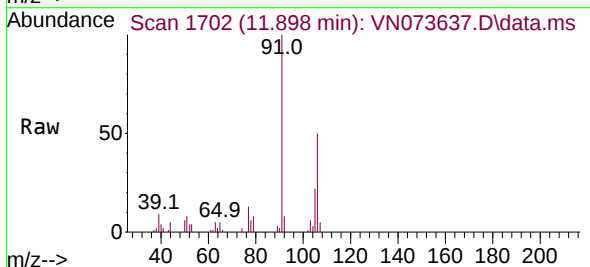
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

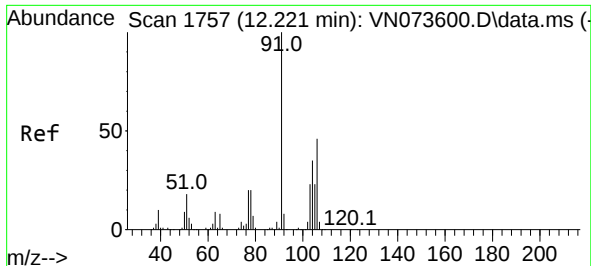
Tgt Ion: 91 Resp: 19720
Ion Ratio Lower Upper
91 100
106 35.6 24.0 36.0



#67
m/p-Xylenes
Concen: 2.416 ug/l
RT: 11.898 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion:106 Resp: 15098
Ion Ratio Lower Upper
106 100
91 224.2 162.9 244.3

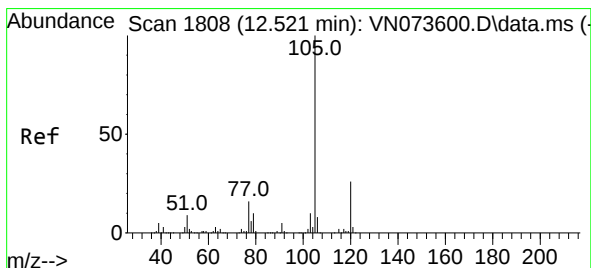
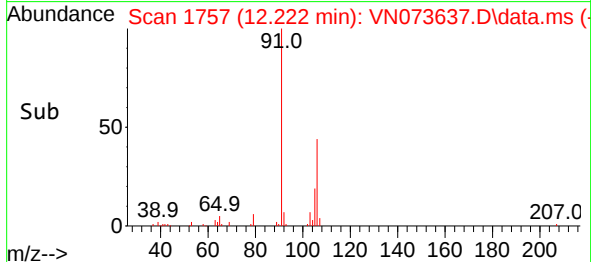
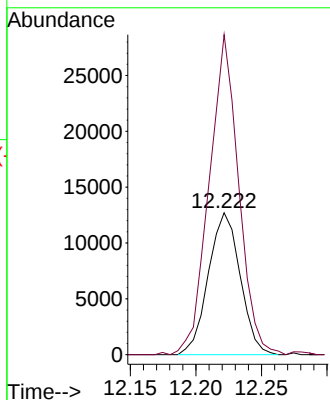
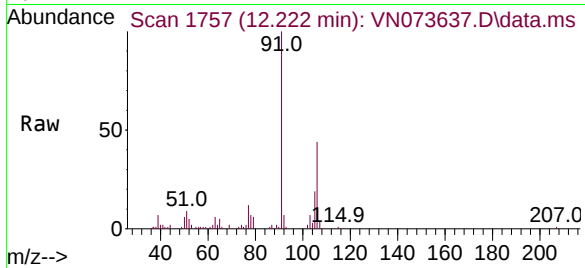




#68
o-Xylene
Concen: 3.458 ug/l
RT: 12.222 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

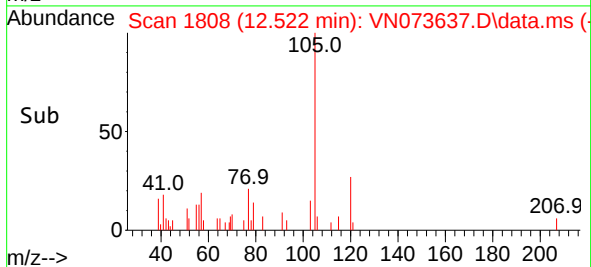
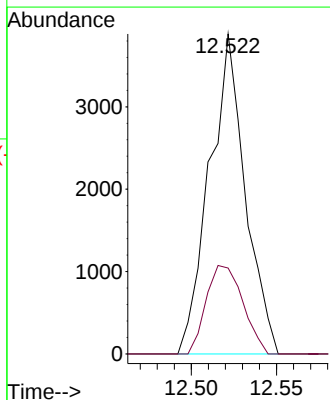
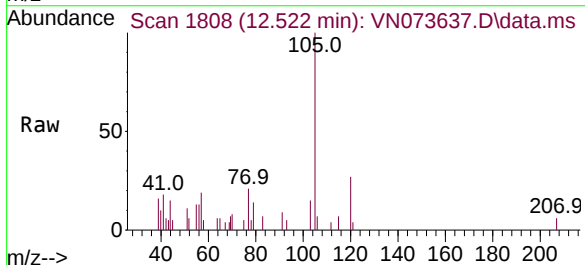
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

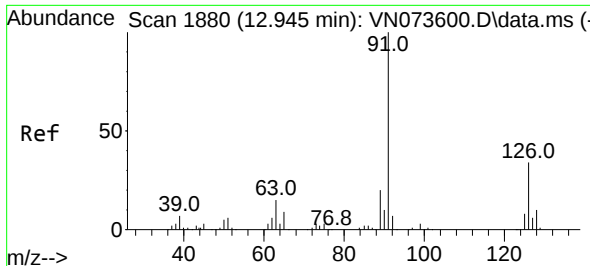
Tgt Ion:106 Resp: 21468
Ion Ratio Lower Upper
106 100
91 208.6 107.7 323.1



#70
Isopropylbenzene
Concen: 0.357 ug/l
RT: 12.522 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion:105 Resp: 5670
Ion Ratio Lower Upper
105 100
120 28.4 18.3 34.1

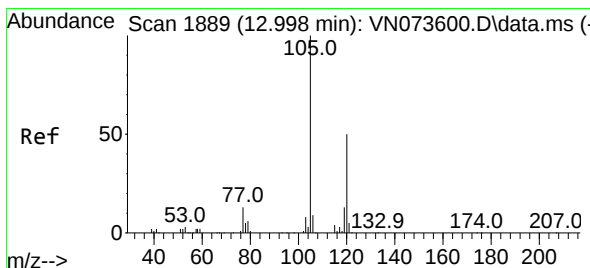
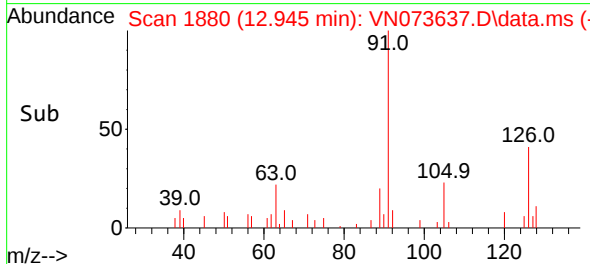
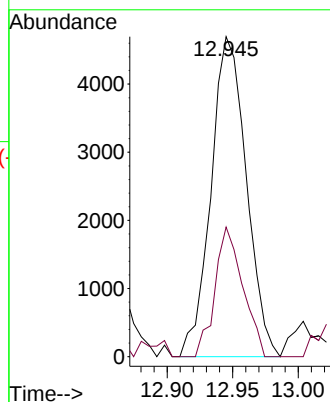
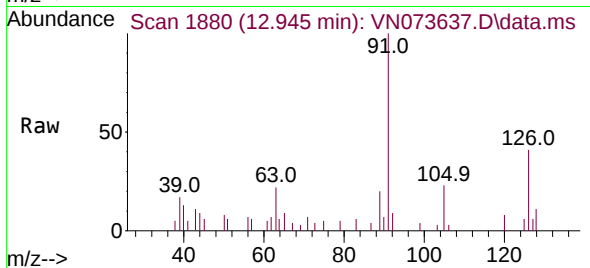




#75
2-Chlorotoluene
Concen: 0.795 ug/l
RT: 12.945 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

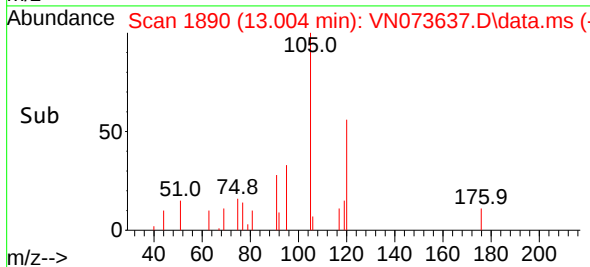
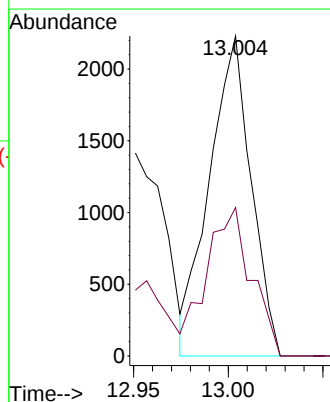
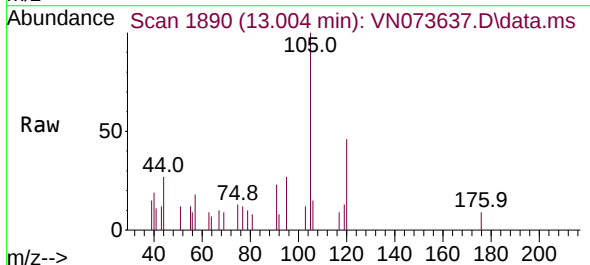
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

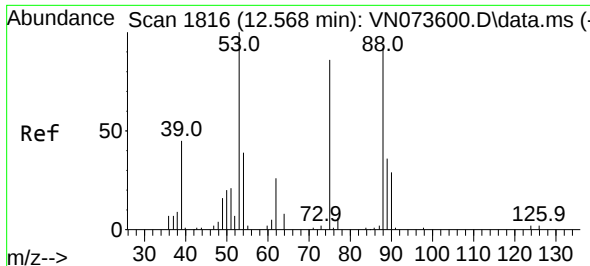
Tgt Ion: 91 Resp: 8803
Ion Ratio Lower Upper
91 100
126 31.9 0.0 69.8



#76
1,3,5-Trimethylbenzene
Concen: 0.257 ug/l
RT: 13.004 min Scan# 1890
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 105 Resp: 3420
Ion Ratio Lower Upper
105 100
120 49.9 0.0 93.8

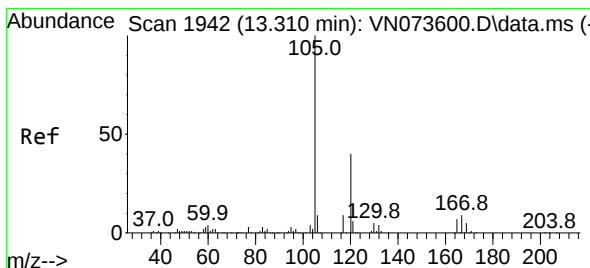
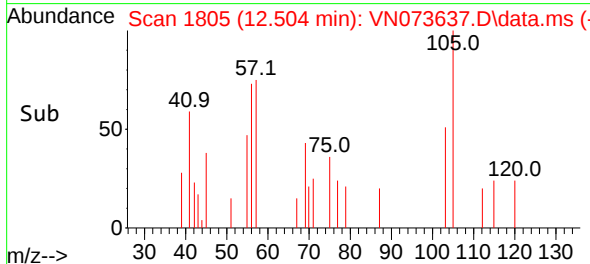
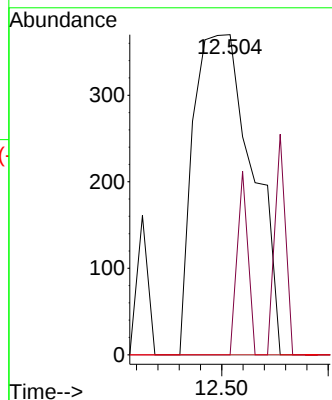
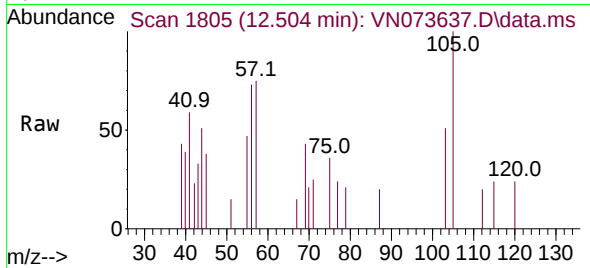




#77
t-1,4-Dichloro-2-butene
Concen: 0.420 ug/l
RT: 12.504 min Scan# 1805
Delta R.T. -0.065 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

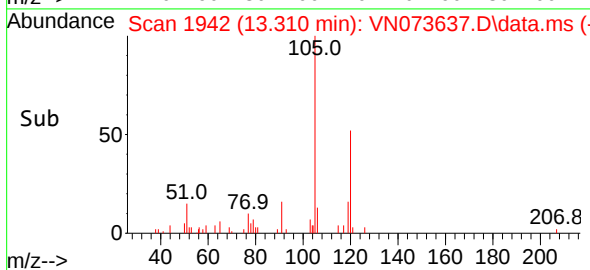
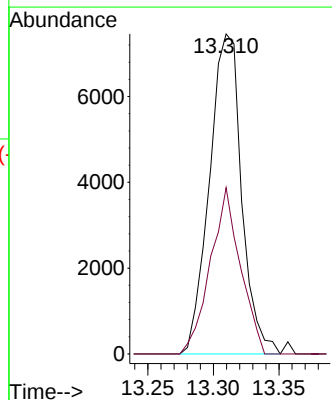
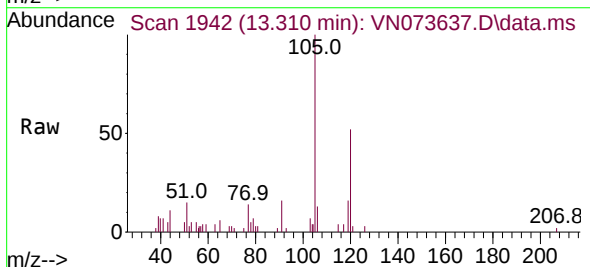
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

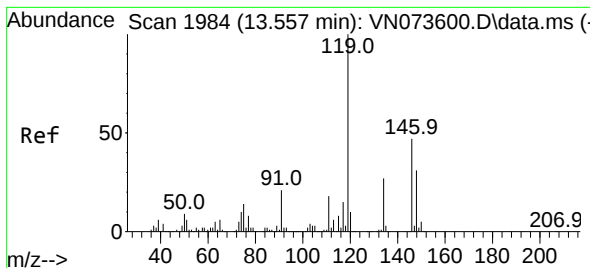
Tgt Ion: 75 Resp: 713
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#80
1,2,4-Trimethylbenzene
Concen: 0.967 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 105 Resp: 12737
Ion Ratio Lower Upper
105 100
120 48.4 0.0 0.2#





#82

p-Isopropyltoluene

Concen: 0.367 ug/l

RT: 13.557 min Scan# 1984

Delta R.T. 0.000 min

Lab File: VN073637.D

Acq: 29 Jul 2022 16:09

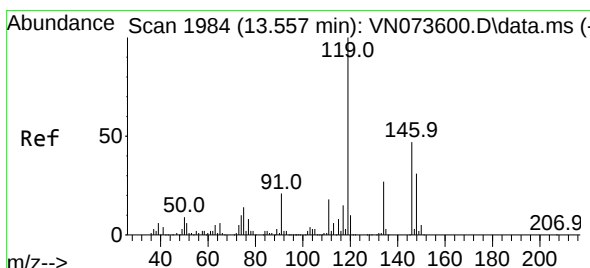
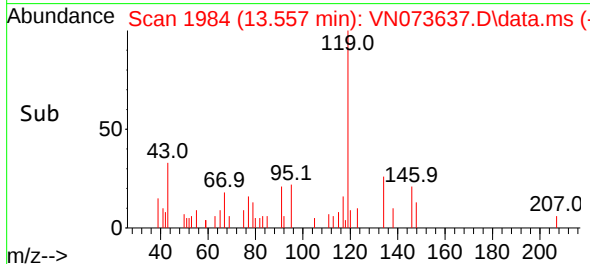
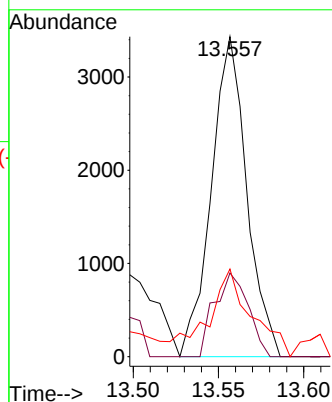
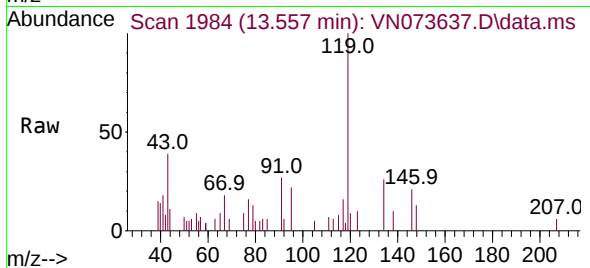
Instrument :

MSVOA_N

ClientSampleId :

220727100-02-VOA

Tgt Ion:	119	Resp:	4966
Ion Ratio	Lower	Upper	
119	100		
134	24.9	0.0	51.8
91	33.5	0.0	50.4



#83

1,3-Dichlorobenzene

Concen: 7.647 ug/l

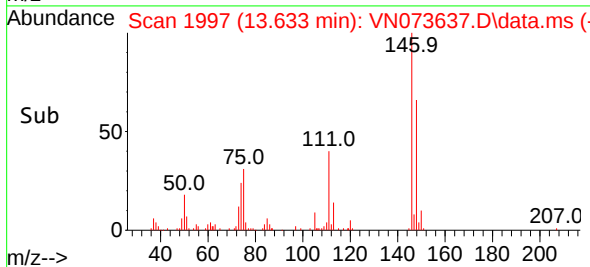
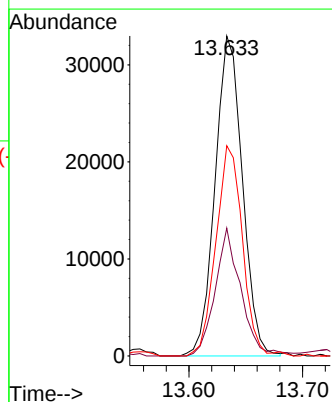
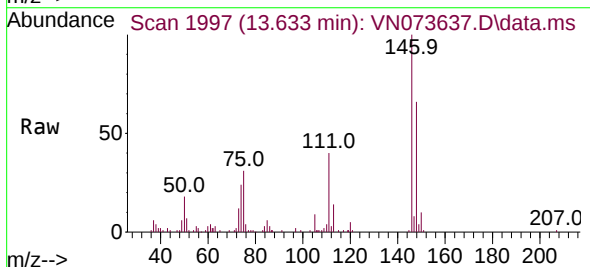
RT: 13.633 min Scan# 1997

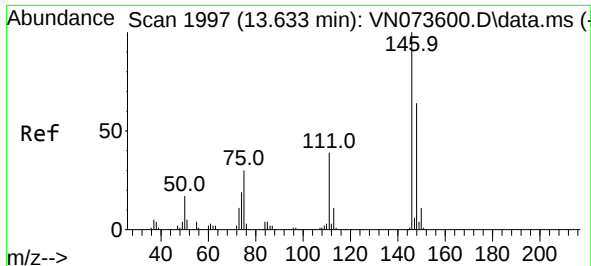
Delta R.T. 0.077 min

Lab File: VN073637.D

Acq: 29 Jul 2022 16:09

Tgt Ion:	146	Resp:	55183
Ion Ratio	Lower	Upper	
146	100		
111	36.6	20.8	62.2
148	63.4	31.4	94.3

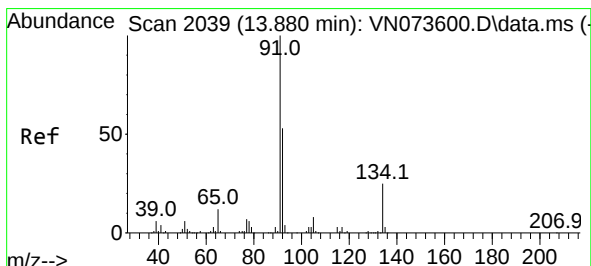
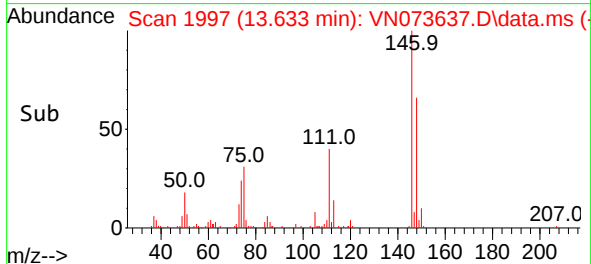
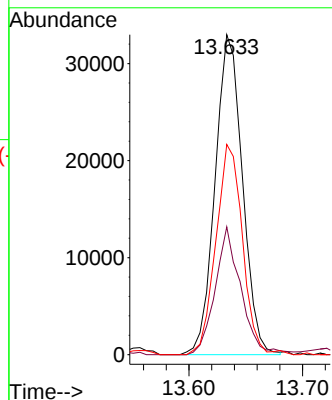
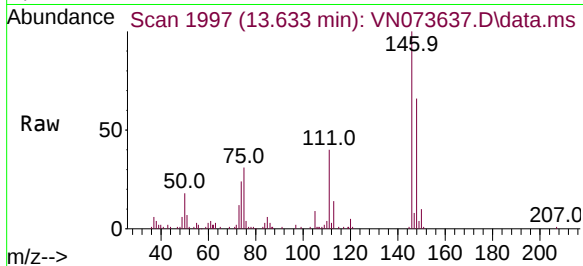




#84
1,4-Dichlorobenzene
Concen: 7.927 ug/l
RT: 13.633 min Scan# 1997
Delta R.T. 0.000 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

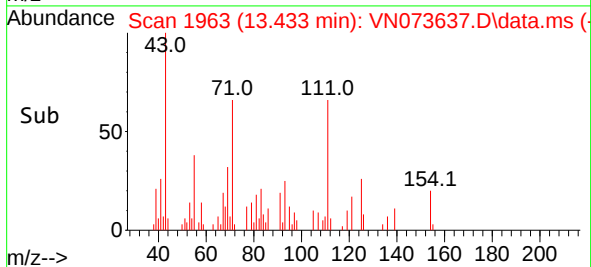
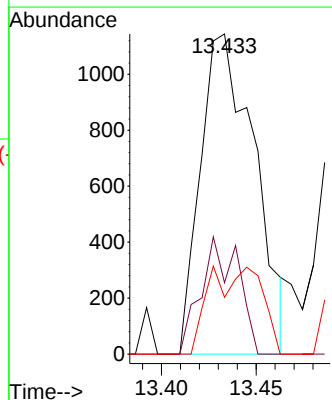
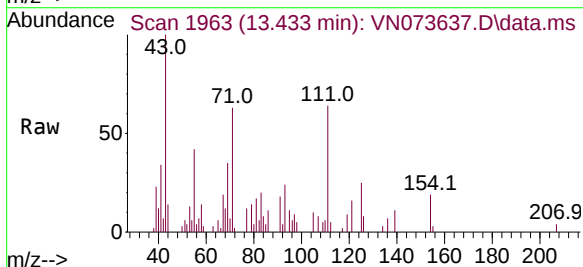
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

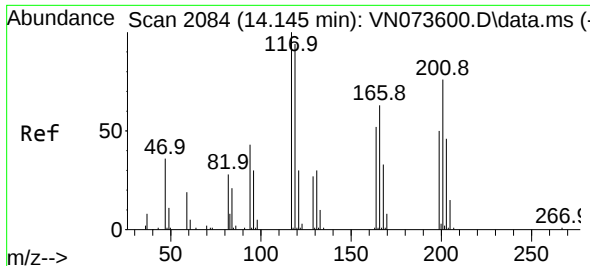
Tgt Ion:146 Resp: 55183
Ion Ratio Lower Upper
146 100
111 36.6 19.5 58.5
148 63.4 31.1 93.5



#85
n-Butylbenzene
Concen: 0.206 ug/l
RT: 13.433 min Scan# 1963
Delta R.T. -0.447 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion: 91 Resp: 2266
Ion Ratio Lower Upper
91 100
92 25.1 0.0 100.6
134 10.6 0.0 50.2

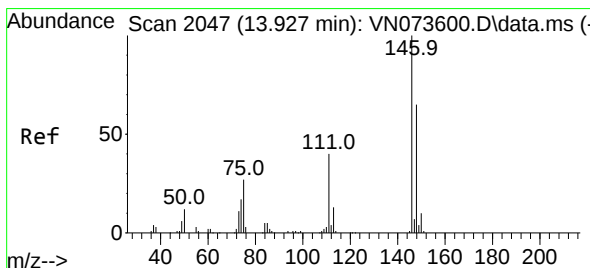
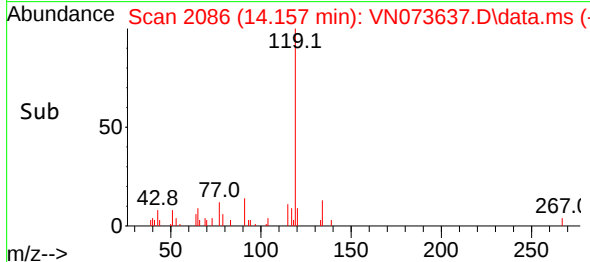
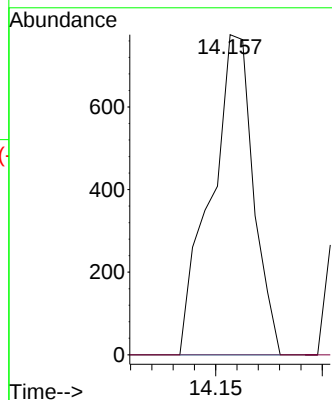
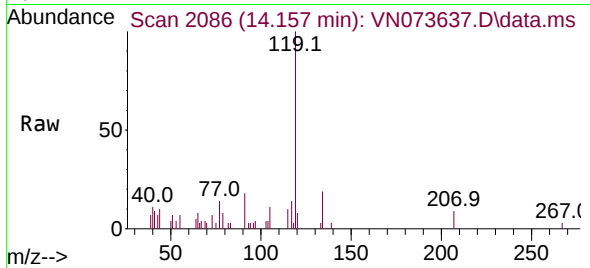




#86
Hexachloroethane
Concen: 0.433 ug/l
RT: 14.157 min Scan# 2086
Delta R.T. 0.012 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

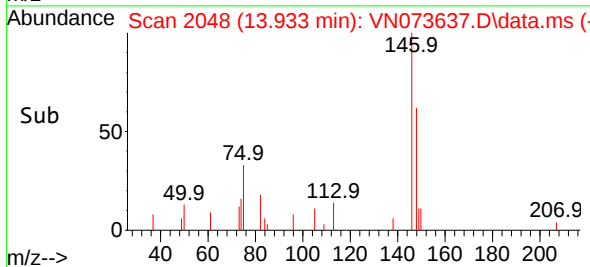
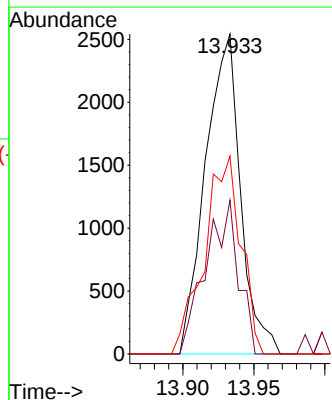
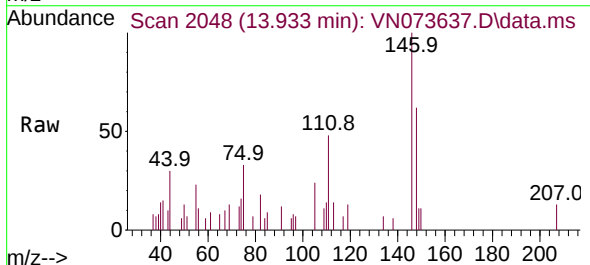
Instrument :
MSVOA_N
ClientSampleId :
220727100-02-VOA

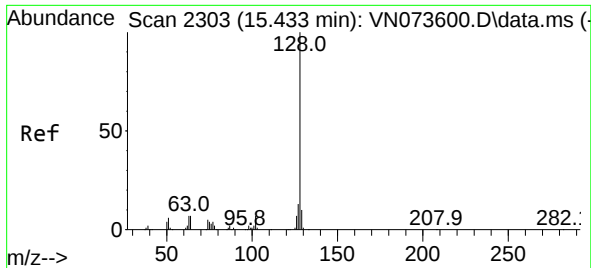
Tgt Ion:117 Resp: 1075
Ion Ratio Lower Upper
117 100
201 0.0 33.3 99.8#



#87
1,2-Dichlorobenzene
Concen: 0.598 ug/l
RT: 13.933 min Scan# 2048
Delta R.T. 0.006 min
Lab File: VN073637.D
Acq: 29 Jul 2022 16:09

Tgt Ion:146 Resp: 4362
Ion Ratio Lower Upper
146 100
111 44.9 21.4 64.2
148 64.7 32.5 97.4





#91

Naphthalene

Concen: 1.315 ug/l

RT: 15.433 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN073637.D

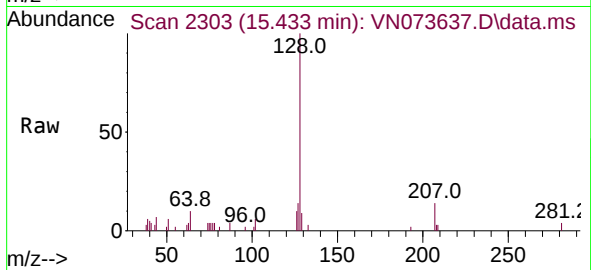
Acq: 29 Jul 2022 16:09

Instrument :

MSVOA_N

ClientSampleId :

220727100-02-VOA



Tgt Ion:	128	Resp:	17343
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.7	16.1
129	8.3	9.0	13.6#

