

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031552.D
 Acq On : 16 Jun 2023 00:38
 Operator : SY/MD
 Sample : 03254-12
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYX3

Quant Time: Jun 16 06:19:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 05:51:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	234755	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	233369	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	132295	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	58053	37.157	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	74.320%		
7) Chloroethane-d5	1.536	69	55038	40.373	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	80.740%		
11) 1,1-Dichloroethene-d2	2.066	65	31306	38.879	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	77.760%		
21) 2-Butanone-d5	3.796	46	109963	86.921	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	86.920%		
24) Chloroform-d	4.259	84	161802	41.352	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	82.700%		
26) 1,2-Dichloroethane-d4	4.950	65	105437	43.068	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.140%		
32) Benzene-d6	4.970	84	278521	42.400	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	84.800%		
36) 1,2-Dichloropropane-d6	5.995	67	102207	43.900	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	87.800%		
41) Toluene-d8	7.249	98	245731	40.765	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	81.540%		
43) trans-1,3-Dichloroprop...	7.558	79	47036	41.442	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	82.880%		
47) 2-Hexanone-d5	8.031	63	89877	97.772	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	97.770%		
56) 1,1,2,2-Tetrachloroeth...	10.159	84	152423	43.374	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	86.740%		
66) 1,2-Dichlorobenzene-d4	11.567	152	123031	48.788	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.580%		
Target Compounds						Qvalue
3) Chloromethane	1.217	50	3834	1.632	ug/L	97
5) Vinyl chloride	1.288	62	32602	13.997	ug/L	99
8) Chloroethane	1.552	64	3662225	2434.378	ug/L	93
13) Acetone	2.127	43	6640	5.319	ug/L	87
16) Methylene chloride	2.455	84	20237	9.293	ug/L	94
17) trans-1,2-Dichloroethene	2.703	96	31928	17.609	ug/L	99
19) 1,1-Dichloroethane	3.118	63	712809	182.151	ug/L	99
20) cis-1,2-Dichloroethene	3.825	96	17663	9.014	ug/L	95
27) 1,2-Dichloroethane	5.053	62	45495	14.490	ug/L	96
30) 1,1,1-Trichloroethane	4.519	97	26555	7.097	ug/L	97
31) Carbon tetrachloride	4.529	117	2758	0.832	ug/L	84
34) Trichloroethene	5.844	95	2196	1.058	ug/L #	76
40) 4-Methyl-2-pentanone	7.172	43	9512	3.551	ug/L	95
48) 2-Hexanone	8.092	43	14097	6.589	ug/L #	65
52) Ethylbenzene	8.953	91	150501	16.743	ug/L	99
53) m,p-Xylene	9.082	106	6247	1.898	ug/L	100
54) o-Xylene	9.484	106	8051	2.577	ug/L	89
60) Isopropylbenzene	9.873	105	29469	3.494	ug/L	99
62) 1,3,5-Trimethylbenzene	10.484	105	33636	4.825	ug/L	95

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Quant Title : VOC Analysis
QLast Update : Fri Jun 16 05:51:14 2023
Response via : Initial Calibration

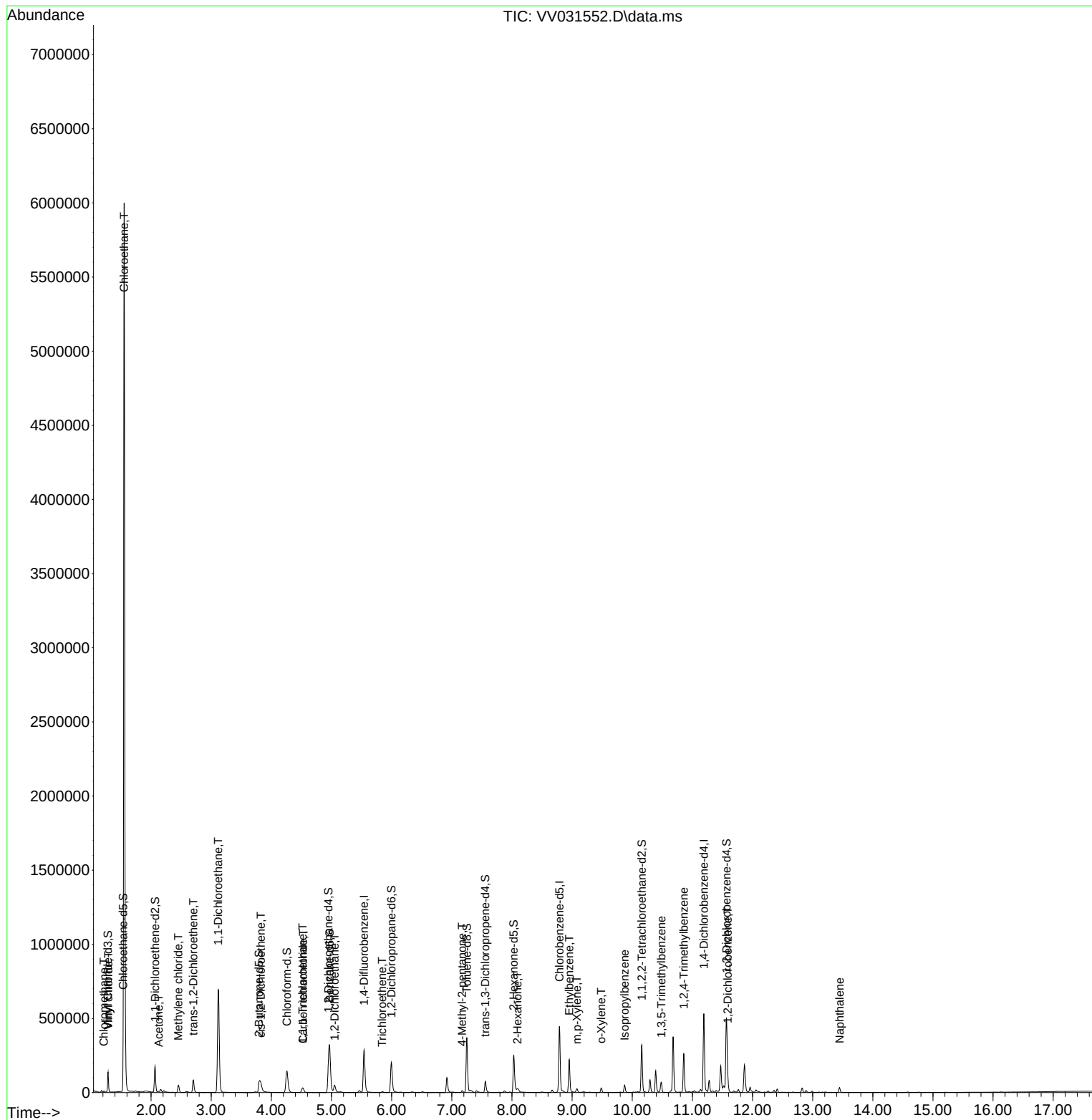
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.857	105	138433	21.314	ug/L	99
67) 1,2-Dichlorobenzene	11.587	146	21751	5.097	ug/L	95
71) Naphthalene	13.448	128	25760	3.601	ug/L	100

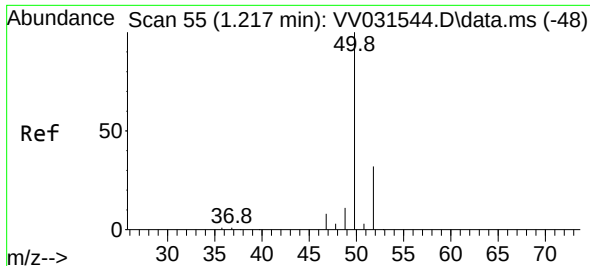
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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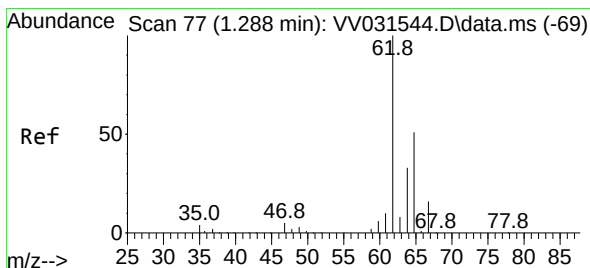
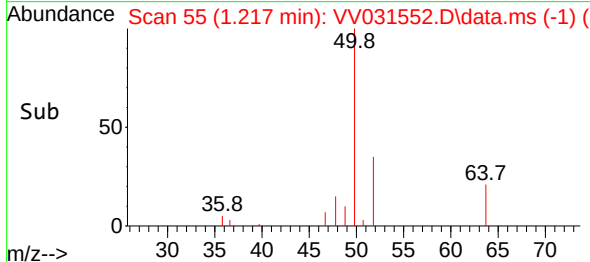
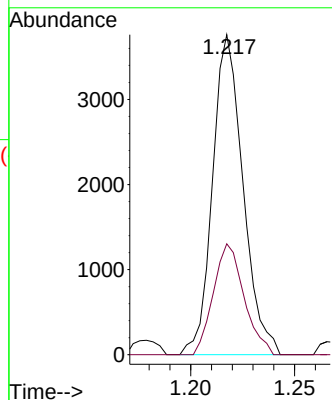
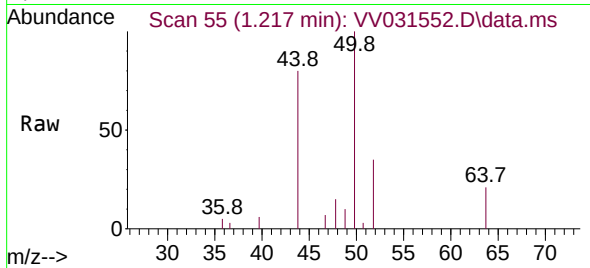




#3
Chloromethane
Concen: 1.632 ug/L
RT: 1.217 min Scan# 50
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

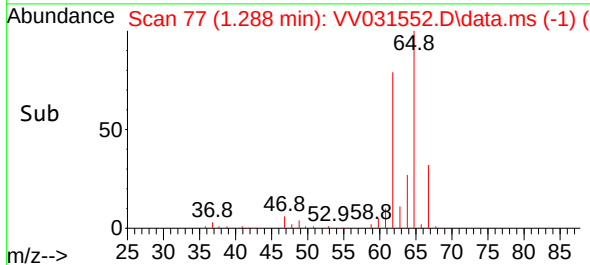
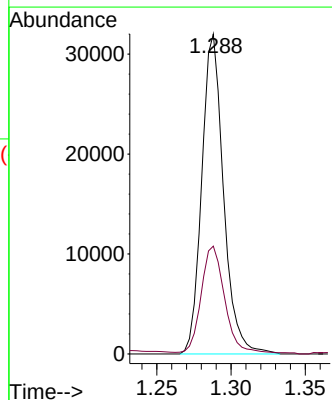
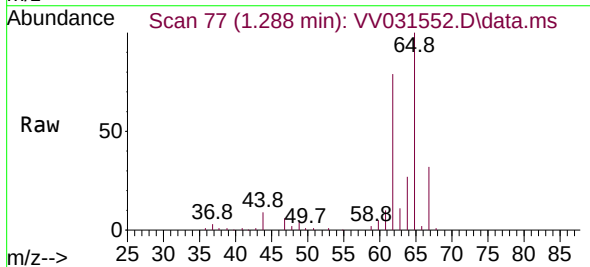
Instrument :
MSVOA_V
ClientSampleId :
EXYX3

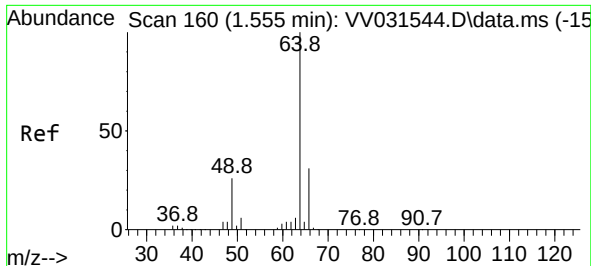
Tgt Ion: 50 Resp: 3834
Ion Ratio Lower Upper
50 100
52 33.5 22.3 41.5



#5
Vinyl chloride
Concen: 13.997 ug/L
RT: 1.288 min Scan# 77
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

Tgt Ion: 62 Resp: 32602
Ion Ratio Lower Upper
62 100
64 33.7 23.4 43.4

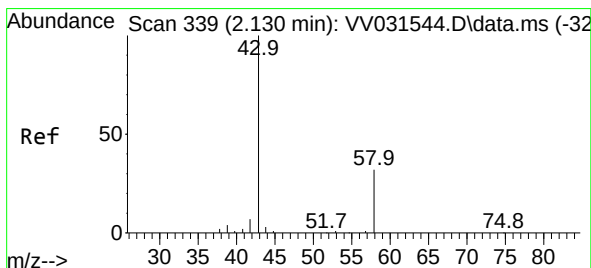
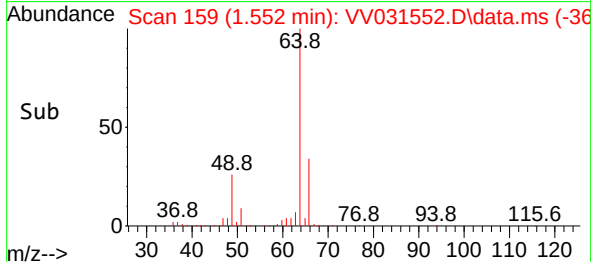
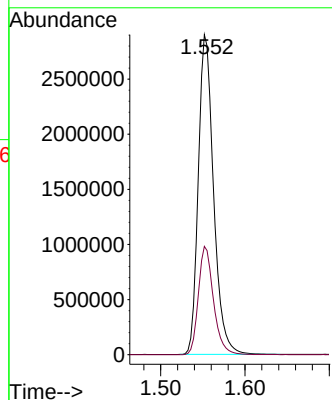
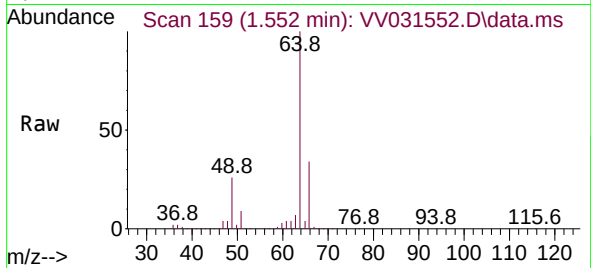




#8
Chloroethane
Concen: 2434.378 ug/L
RT: 1.552 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

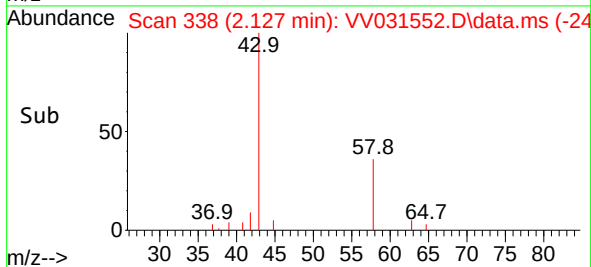
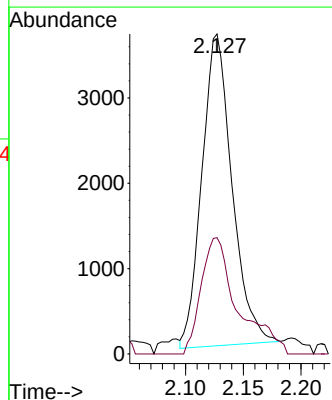
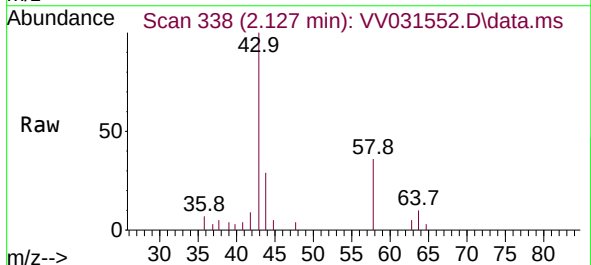
Instrument :
MSVOA_V
ClientSampleId :
EXYX3

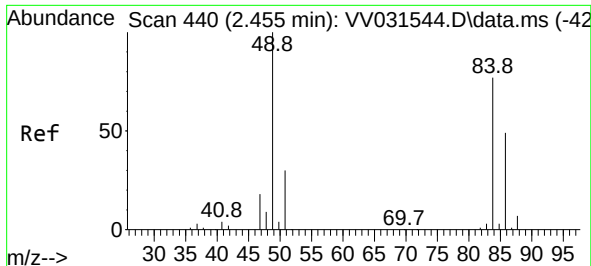
Tgt Ion: 64 Resp: 3662225
Ion Ratio Lower Upper
64 100
66 33.9 21.0 39.0



#13
Acetone
Concen: 5.319 ug/L
RT: 2.127 min Scan# 338
Delta R.T. -0.003 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

Tgt Ion: 43 Resp: 6640
Ion Ratio Lower Upper
43 100
58 41.5 0.0 68.6

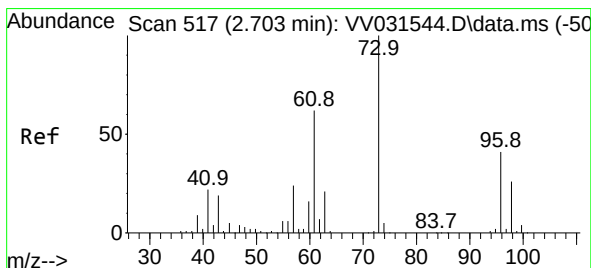
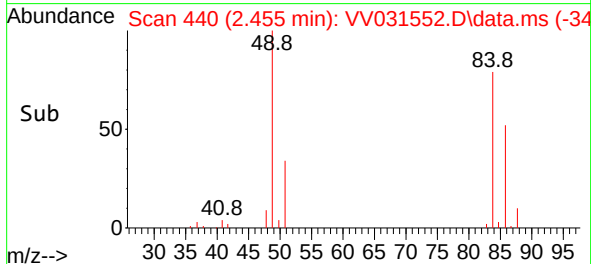
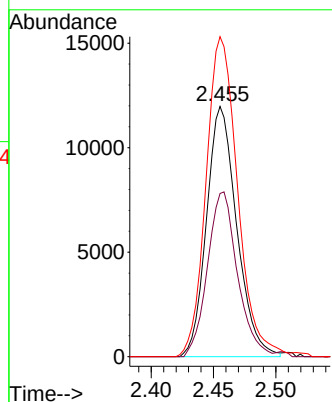
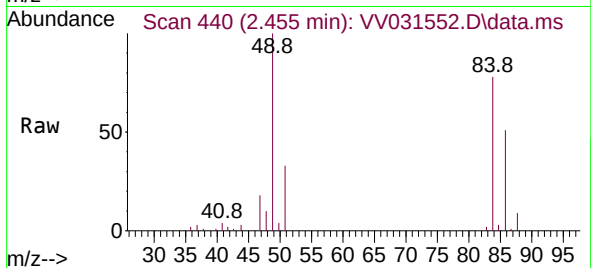




#16
Methylene chloride
Concen: 9.293 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

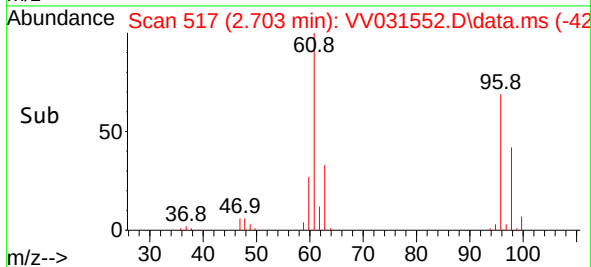
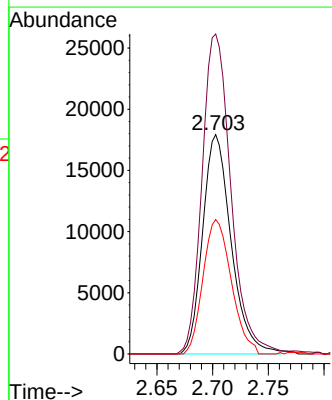
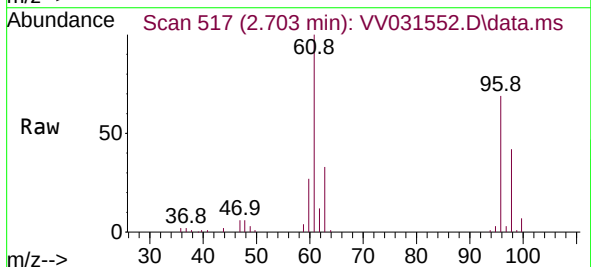
Instrument :
MSVOA_V
ClientSampleId :
EXYX3

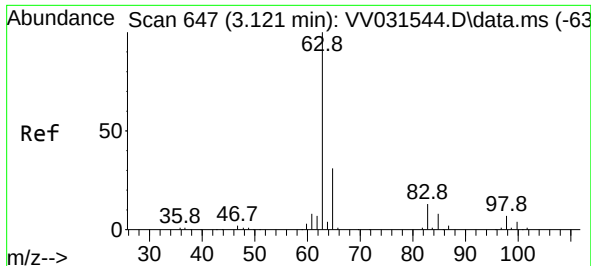
Tgt Ion: 84 Resp: 20237
Ion Ratio Lower Upper
84 100
86 64.0 45.8 85.0
49 122.7 92.1 171.1



#17
trans-1,2-Dichloroethene
Concen: 17.609 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

Tgt Ion: 96 Resp: 31928
Ion Ratio Lower Upper
96 100
61 145.9 102.5 190.3
98 61.3 44.1 81.9





#19

1,1-Dichloroethane

Concen: 182.151 ug/L

RT: 3.118 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

Instrument :

MSVOA_V

ClientSampleId :

EXYX3

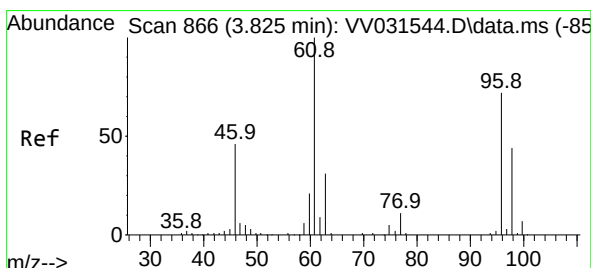
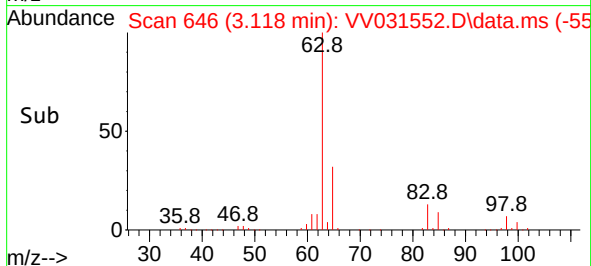
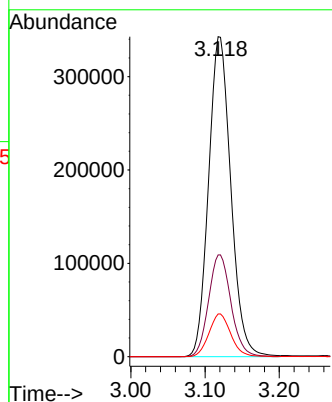
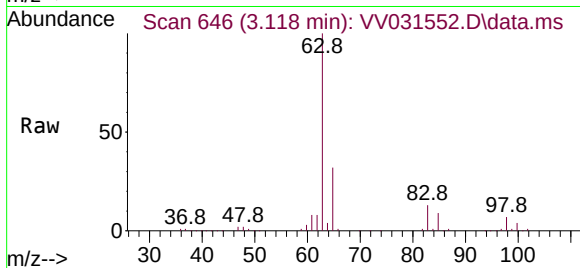
Tgt Ion: 63 Resp: 712809

Ion Ratio Lower Upper

63 100

65 31.8 22.5 41.7

83 13.3 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 9.014 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.000 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

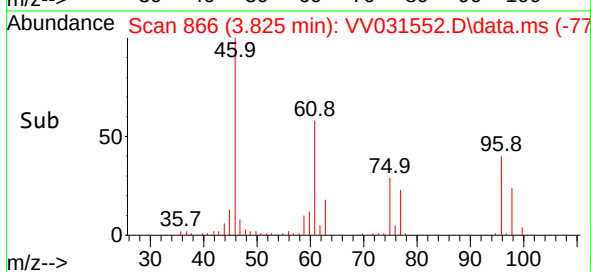
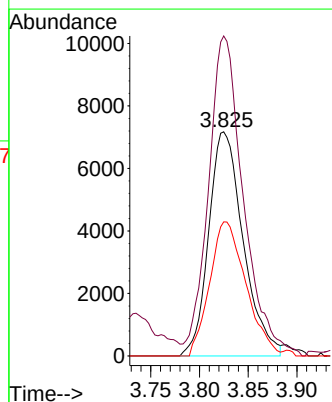
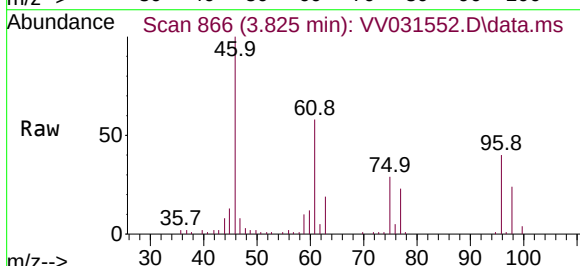
Tgt Ion: 96 Resp: 17663

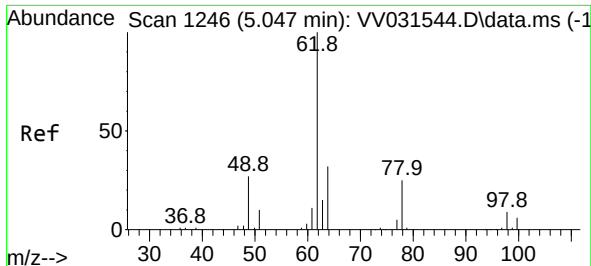
Ion Ratio Lower Upper

96 100

61 137.8 98.6 183.0

98 57.8 45.7 84.9





#27

1,2-Dichloroethane

Concen: 14.490 ug/L

RT: 5.053 min Scan# 11

Delta R.T. 0.007 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

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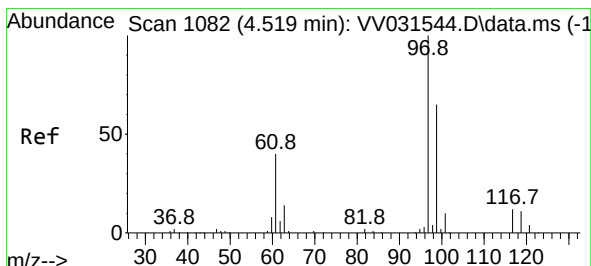
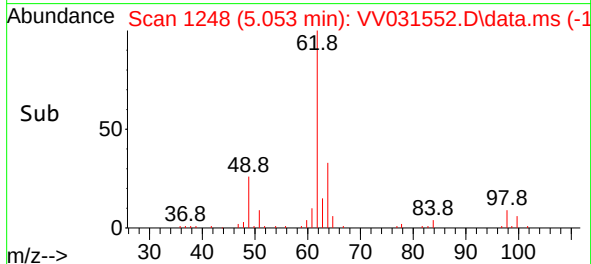
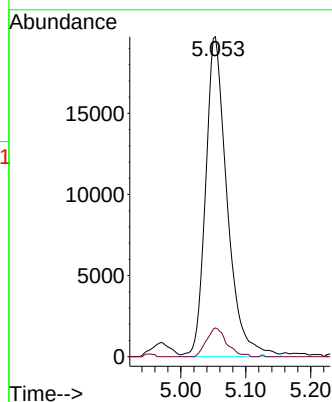
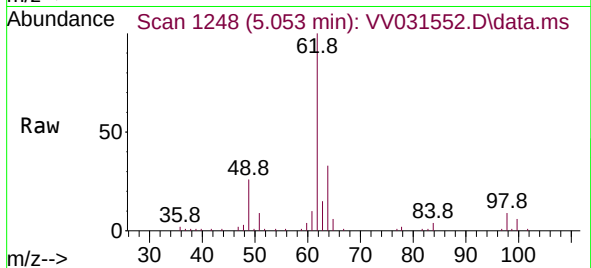
EXYX3

Tgt Ion: 62 Resp: 45495

Ion Ratio Lower Upper

62 100

98 9.6 6.6 9.8



#30

1,1,1-Trichloroethane

Concen: 7.097 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.000 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

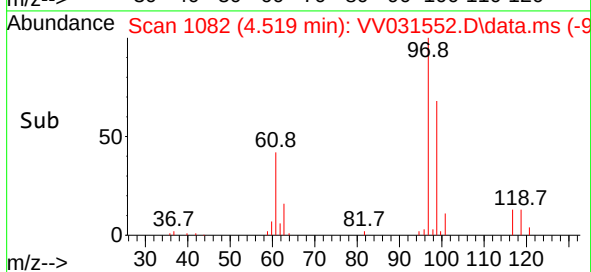
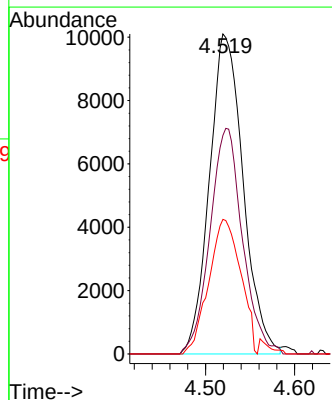
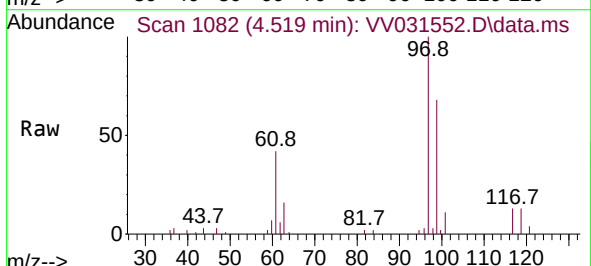
Tgt Ion: 97 Resp: 26555

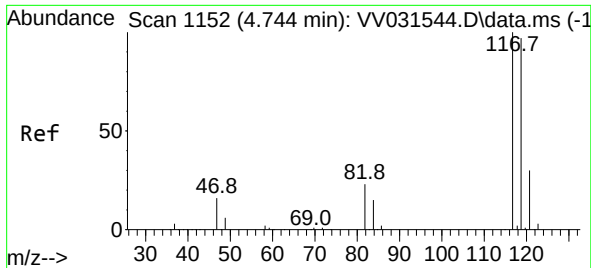
Ion Ratio Lower Upper

97 100

99 67.6 51.8 77.6

61 39.8 33.0 49.6

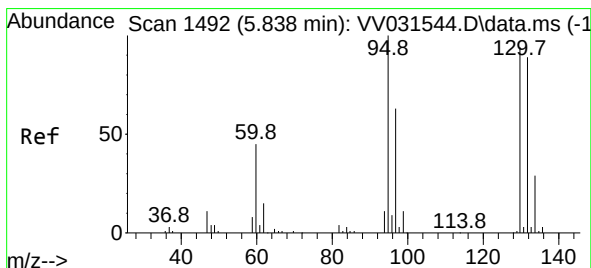
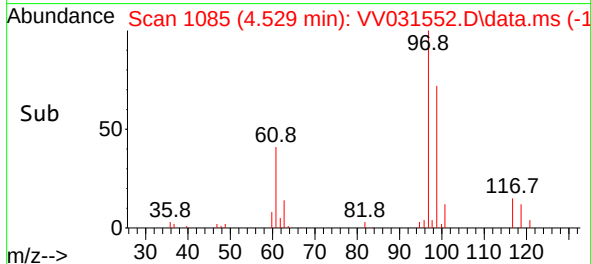
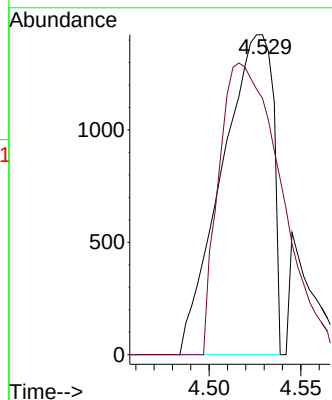
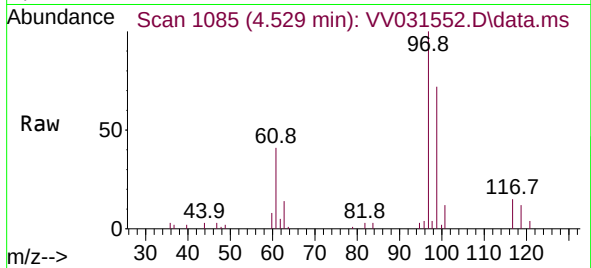




#31
Carbon tetrachloride
Concen: 0.832 ug/L
RT: 4.529 min Scan# 1085
Delta R.T. -0.215 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

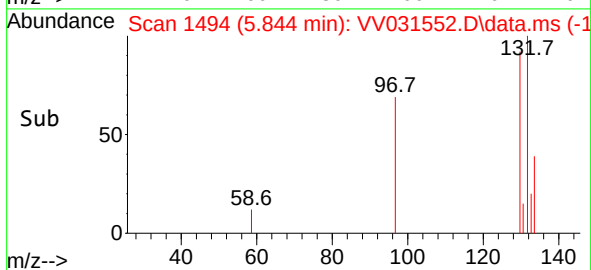
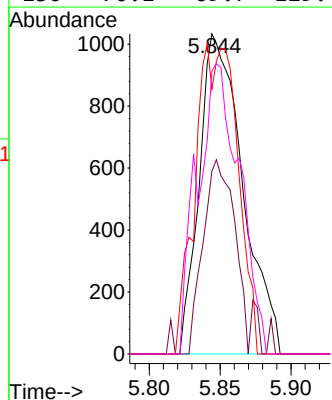
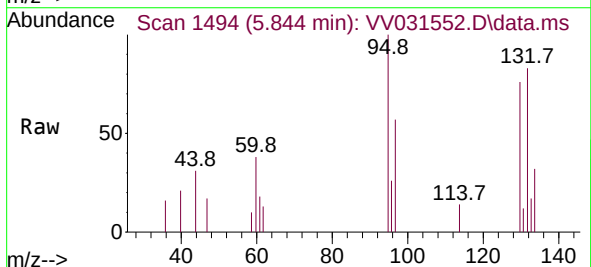
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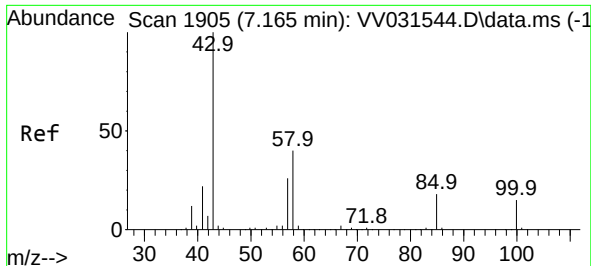
Tgt Ion:117 Resp: 2758
Ion Ratio Lower Upper
117 100
119 110.6 76.2 114.4



#34
Trichloroethene
Concen: 1.058 ug/L
RT: 5.844 min Scan# 1494
Delta R.T. 0.007 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

Tgt Ion: 95 Resp: 2196
Ion Ratio Lower Upper
95 100
97 45.3 46.8 86.8#
132 79.0 66.4 123.2
130 70.1 69.7 129.4





#40

4-Methyl-2-pentanone

Concen: 3.551 ug/L

RT: 7.172 min Scan# 1907

Delta R.T. 0.007 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

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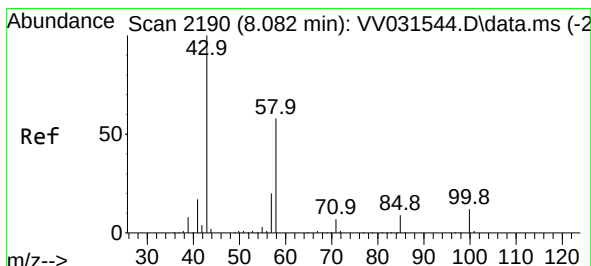
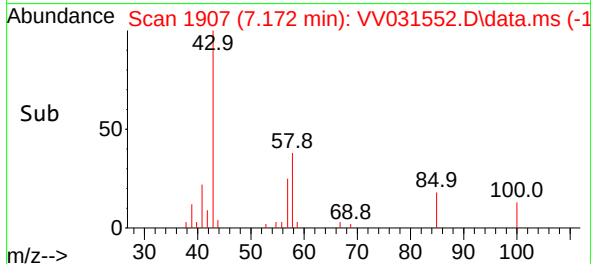
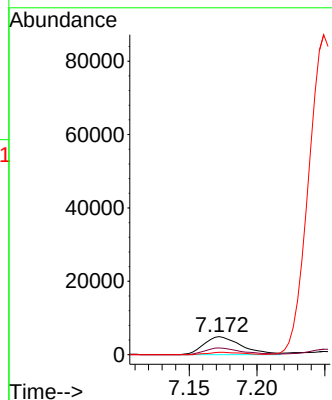
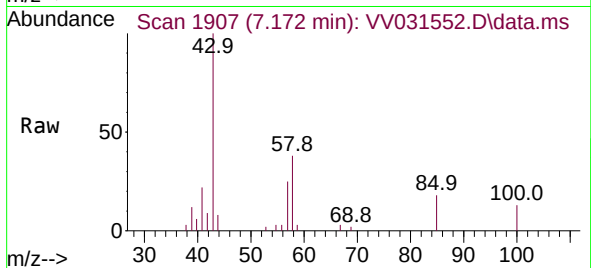
Tgt Ion: 43 Resp: 9512

Ion Ratio Lower Upper

43 100

58 36.5 31.8 47.8

100 12.3 11.1 16.7



#48

2-Hexanone

Concen: 6.589 ug/L

RT: 8.092 min Scan# 2193

Delta R.T. 0.010 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

Tgt Ion: 43 Resp: 14097

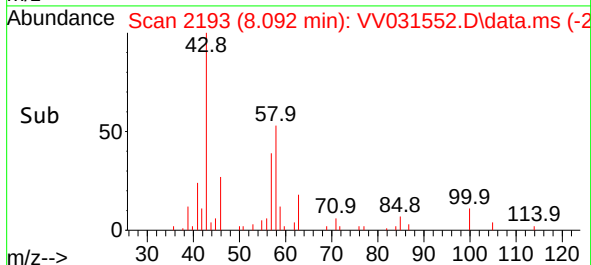
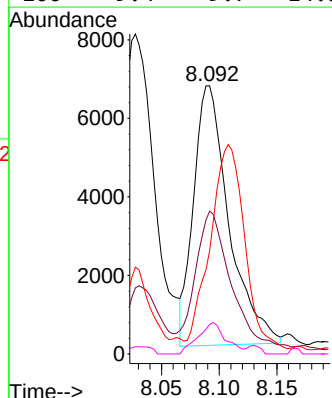
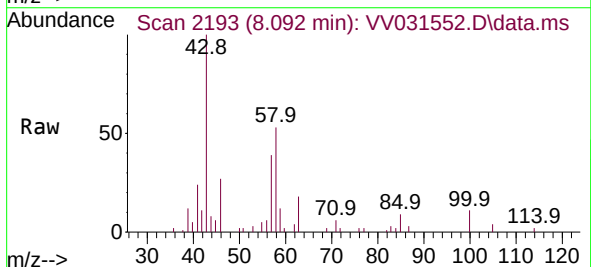
Ion Ratio Lower Upper

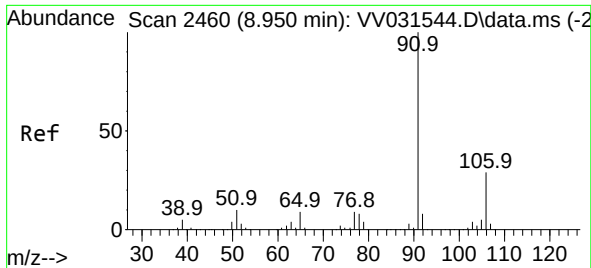
43 100

58 51.5 46.7 70.1

57 79.2 15.5 23.3#

100 9.4 9.7 14.5#





#52

Ethylbenzene

Concen: 16.743 ug/L

RT: 8.953 min Scan# 2460

Delta R.T. 0.003 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

Instrument :

MSVOA_V

ClientSampleId :

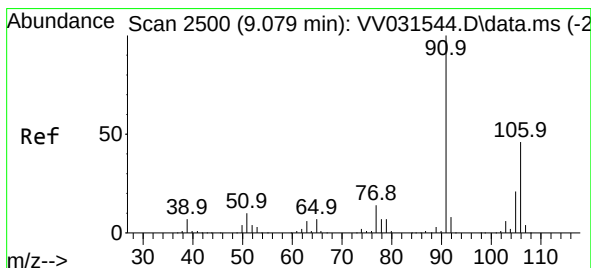
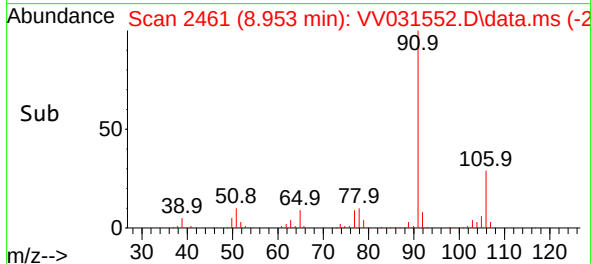
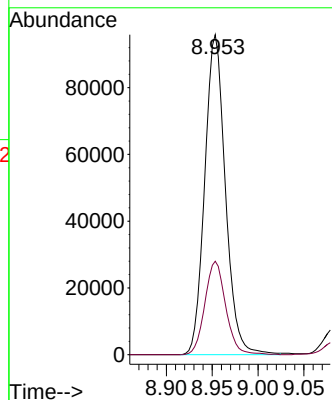
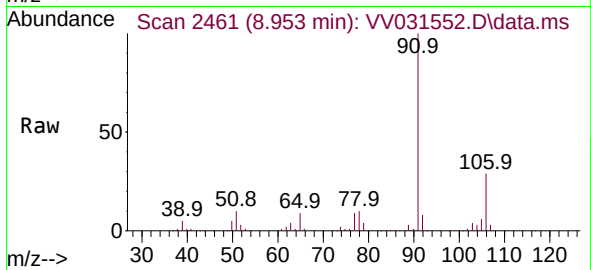
EXYX3

Tgt Ion: 91 Resp: 150501

Ion Ratio Lower Upper

91 100

106 29.2 20.8 38.6



#53

m,p-Xylene

Concen: 1.898 ug/L

RT: 9.082 min Scan# 2501

Delta R.T. 0.003 min

Lab File: VV031552.D

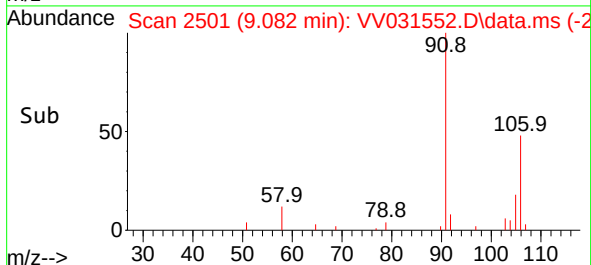
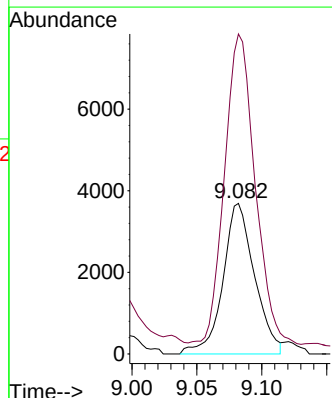
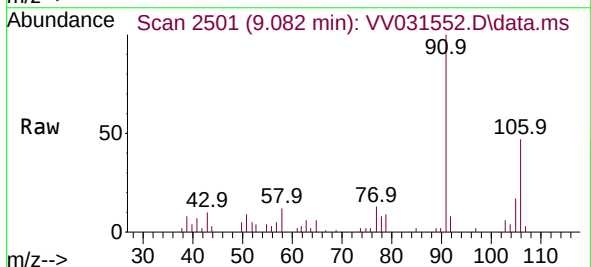
Acq: 16 Jun 2023 00:38

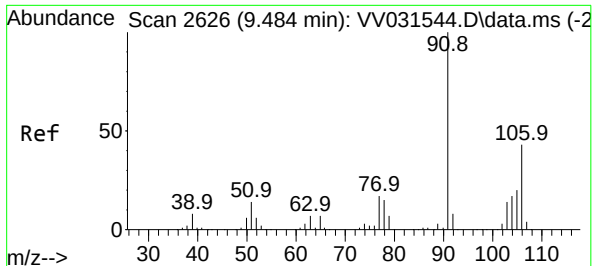
Tgt Ion:106 Resp: 6247

Ion Ratio Lower Upper

106 100

91 212.4 149.0 276.6

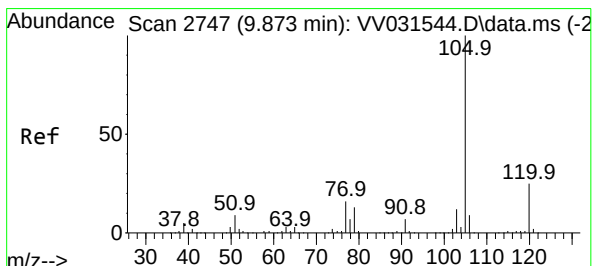
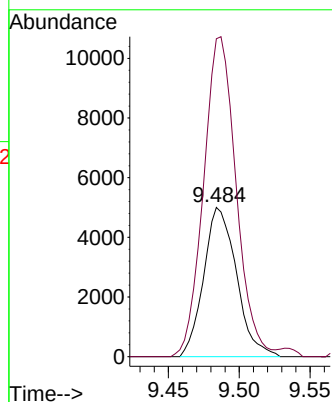
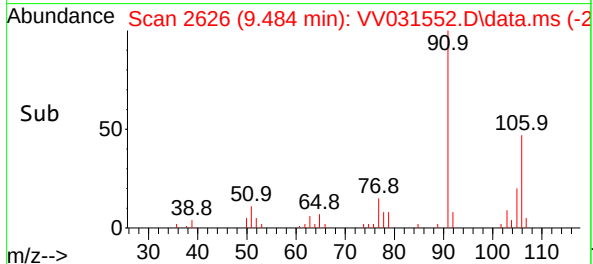
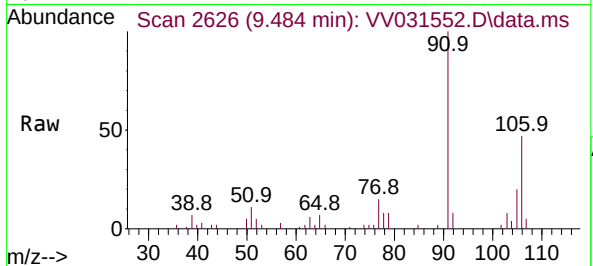




#54
o-Xylene
Concen: 2.577 ug/L
RT: 9.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

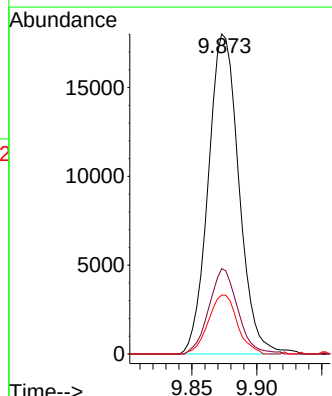
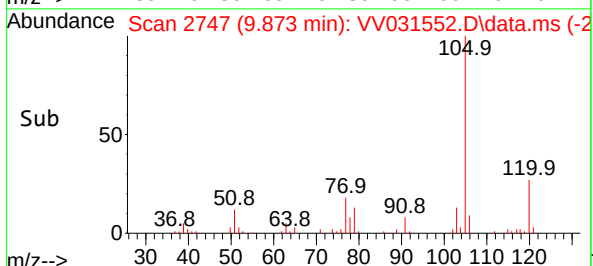
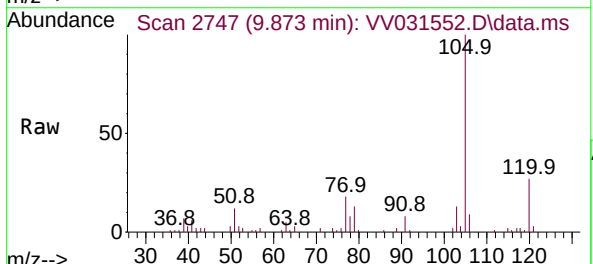
Instrument :
MSVOA_V
ClientSampleId :
EXYX3

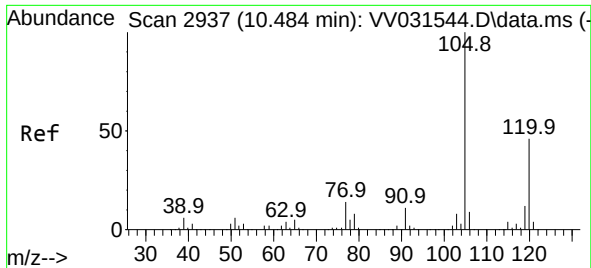
Tgt Ion:106 Resp: 8051
Ion Ratio Lower Upper
106 100
91 212.9 161.3 299.7



#60
Isopropylbenzene
Concen: 3.494 ug/L
RT: 9.873 min Scan# 2747
Delta R.T. 0.000 min
Lab File: VV031552.D
Acq: 16 Jun 2023 00:38

Tgt Ion:105 Resp: 29469
Ion Ratio Lower Upper
105 100
120 25.1 20.2 30.2
77 17.4 13.5 20.3

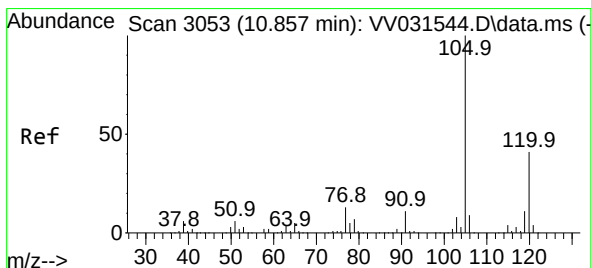
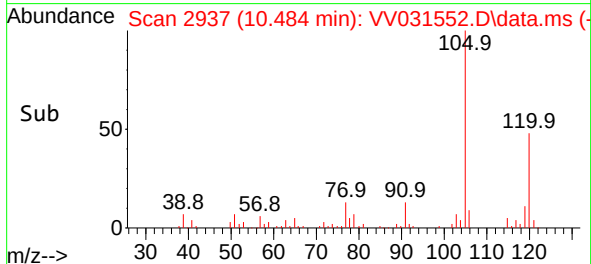
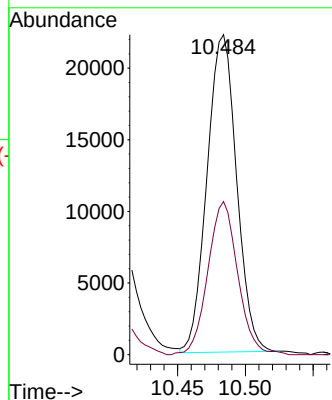
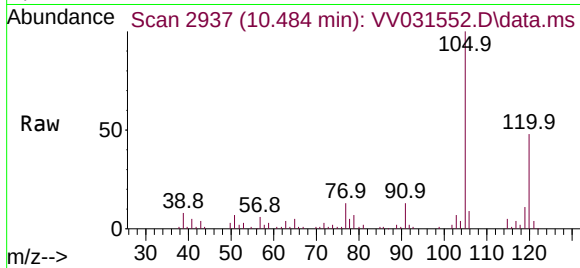




#62
 1,3,5-Trimethylbenzene
 Concen: 4.825 ug/L
 RT: 10.484 min Scan# 2937
 Delta R.T. 0.000 min
 Lab File: VV031552.D
 Acq: 16 Jun 2023 00:38

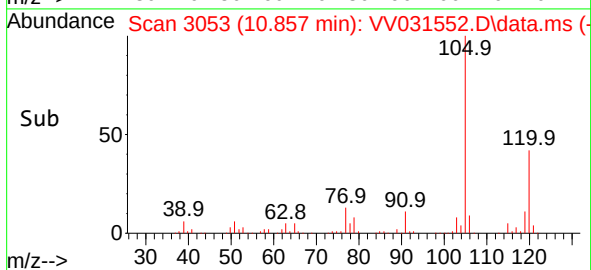
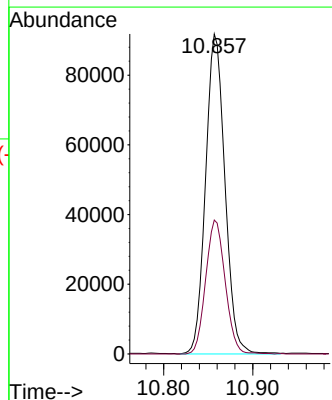
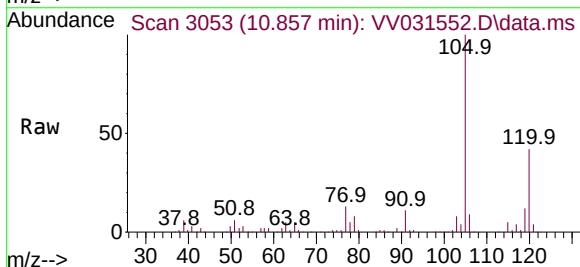
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYX3

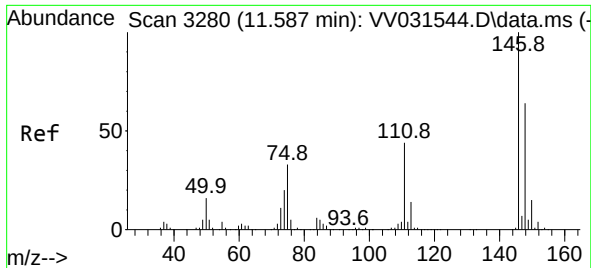
Tgt Ion:105 Resp: 33636
 Ion Ratio Lower Upper
 105 100
 120 48.4 36.2 54.2



#63
 1,2,4-Trimethylbenzene
 Concen: 21.314 ug/L
 RT: 10.857 min Scan# 3053
 Delta R.T. 0.000 min
 Lab File: VV031552.D
 Acq: 16 Jun 2023 00:38

Tgt Ion:105 Resp: 138433
 Ion Ratio Lower Upper
 105 100
 120 42.1 33.4 50.2





#67

1,2-Dichlorobenzene

Concen: 5.097 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

Instrument :

MSVOA_V

ClientSampleId :

EXYX3

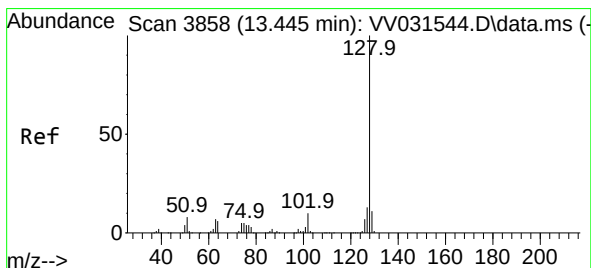
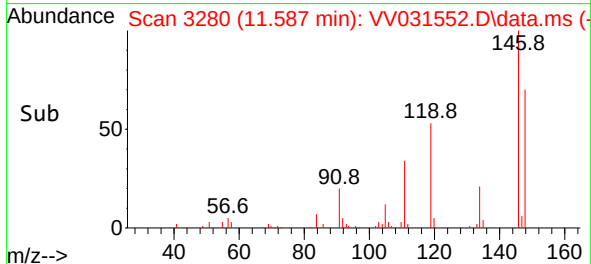
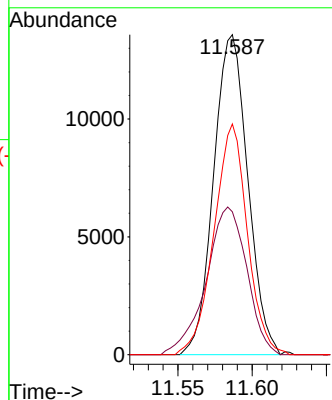
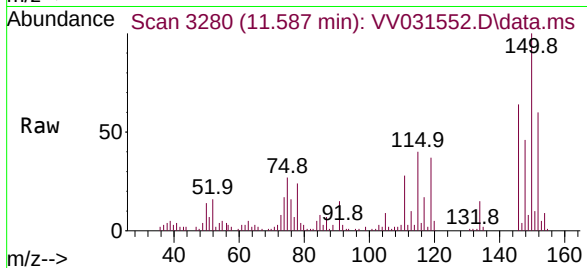
Tgt Ion:146 Resp: 21751

Ion Ratio Lower Upper

146 100

111 44.7 35.9 53.9

148 72.1 52.6 78.8



#71

Naphthalene

Concen: 3.601 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.003 min

Lab File: VV031552.D

Acq: 16 Jun 2023 00:38

Tgt Ion:128 Resp: 25760

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 10.9 8.6 13.0

