

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031530.D
 Acq On : 15 Jun 2023 14:50
 Operator : SY/MD
 Sample : 03249-06
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS8

Quant Time: Jun 16 02:48:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	182209	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	180082	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	95714	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	67643	55.781	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 111.560%	
7) Chloroethane-d5	1.536	69	62130	58.719	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 117.440%	
11) 1,1-Dichloroethene-d2	2.066	65	35535	56.857	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 113.720%	
21) 2-Butanone-d5	3.796	46	127249	129.591	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 129.590%	
24) Chloroform-d	4.259	84	169801	55.911	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 111.820%	
26) 1,2-Dichloroethane-d4	4.950	65	112952	59.444	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 118.880%	
32) Benzene-d6	4.969	84	302575	59.692	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 119.380%	
36) 1,2-Dichloropropane-d6	5.995	67	106838	59.467	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 118.940%	
41) Toluene-d8	7.249	98	259740	55.840	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 111.680%	
43) trans-1,3-Dichloroprop...	7.558	79	51228	58.491	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 116.980%	
47) 2-Hexanone-d5	8.030	63	85972	121.198	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 121.200%	
56) 1,1,2,2-Tetrachloroeth...	10.159	84	153311	56.535	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 113.080%	
66) 1,2-Dichlorobenzene-d4	11.567	152	116623	63.921	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 127.840%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	164161	90.804	ug/L	98
8) Chloroethane	1.555	64	15292	13.096	ug/L	99
9) Trichlorofluoromethane	1.719	101	2153	0.716	ug/L	95
12) 1,1-Dichloroethene	2.076	96	25732	19.086	ug/L #	33
17) trans-1,2-Dichloroethene	2.703	96	11304	8.032	ug/L	96
19) 1,1-Dichloroethane	3.121	63	1116056	367.442	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	1911218	1256.661	ug/L	98
27) 1,2-Dichloroethane	5.063	62	6166	2.530	ug/L	95
30) 1,1,1-Trichloroethane	4.523	97	1186101	410.807	ug/L	100
33) Benzene	5.021	78	7470	1.246	ug/L	100
34) Trichloroethene	5.844	95	12579	7.851	ug/L	97
42) Toluene	7.326	91	11597	1.866	ug/L	94
44) trans-1,3-Dichloropropene	7.558	75	2292	0.901	ug/L #	65
46) Tetrachloroethene	7.911	164	31106	24.738	ug/L	92
52) Ethylbenzene	8.956	91	14501	2.091	ug/L	99
53) m,p-Xylene	9.088	106	1542	0.607	ug/L	81
54) o-Xylene	9.487	106	8229	3.414	ug/L	98
60) Isopropylbenzene	9.873	105	4103	0.672	ug/L	95
62) 1,3,5-Trimethylbenzene	10.484	105	6572	1.303	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Jun 16 02:44:48 2023
Response via : Initial Calibration

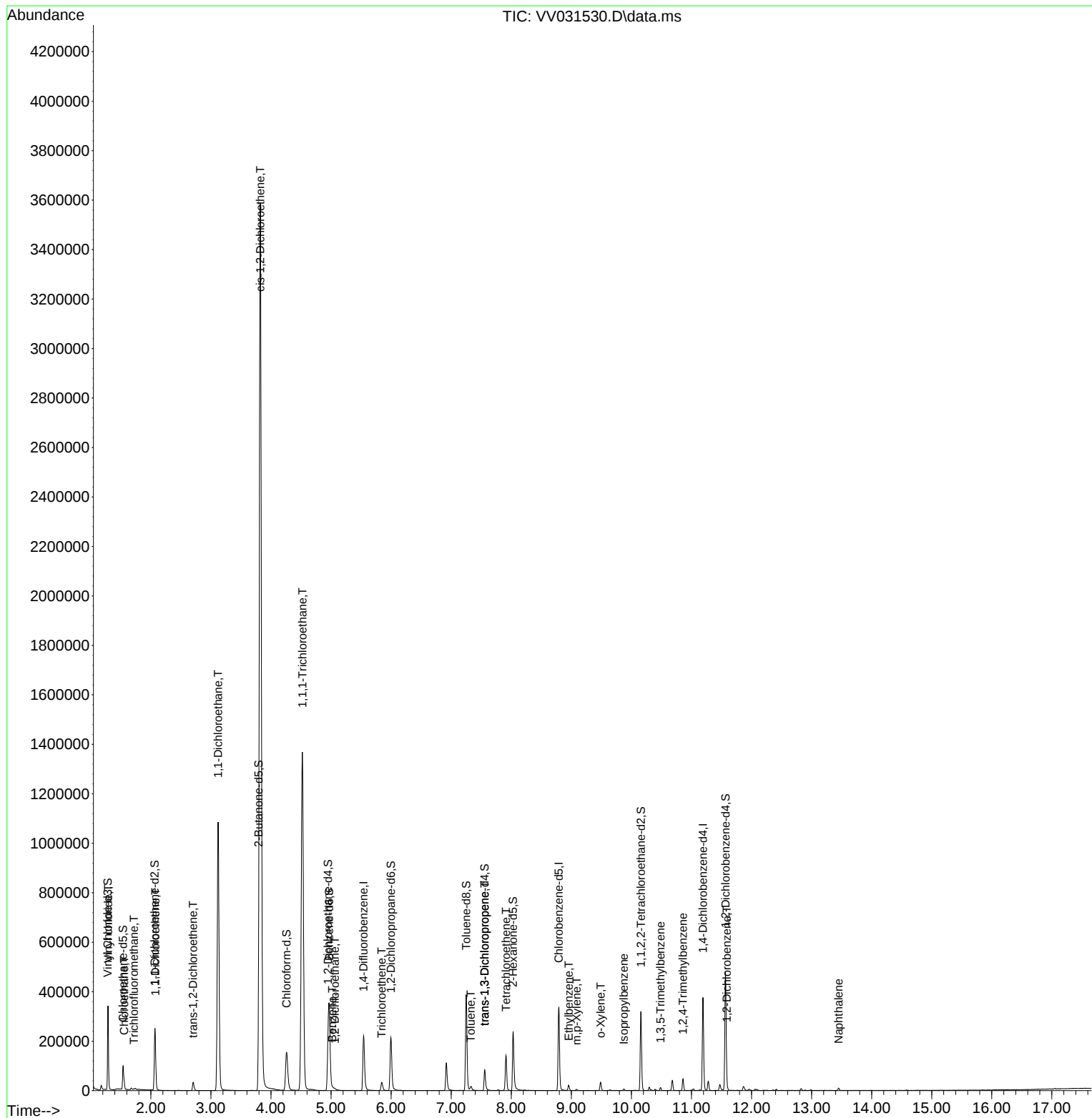
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.860	105	24658	5.247	ug/L	95
67) 1,2-Dichlorobenzene	11.587	146	3210	1.040	ug/L	92
71) Naphthalene	13.451	128	7689	1.486	ug/L #	94

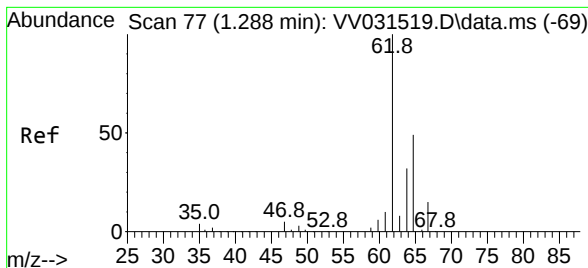
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#5

Vinyl chloride

Concen: 90.804 ug/L

RT: 1.288 min Scan# 77

Delta R.T. 0.000 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Instrument :

MSVOA_V

ClientSampleId :

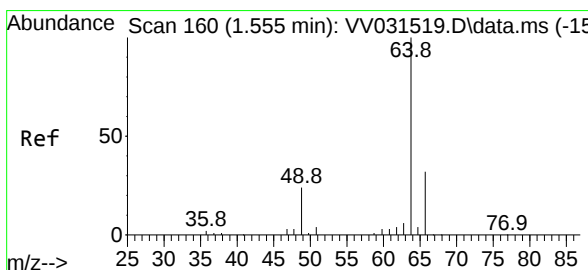
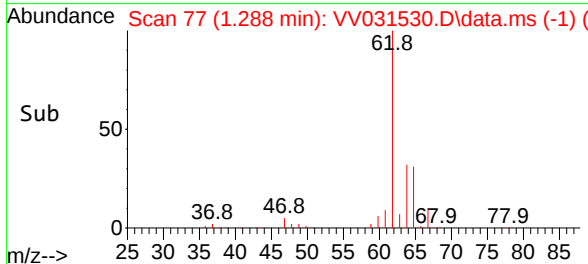
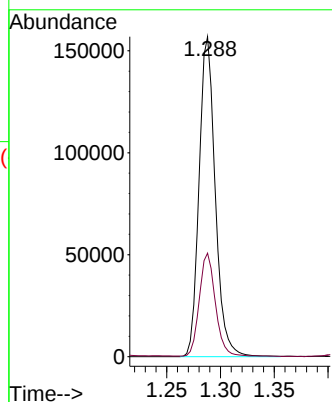
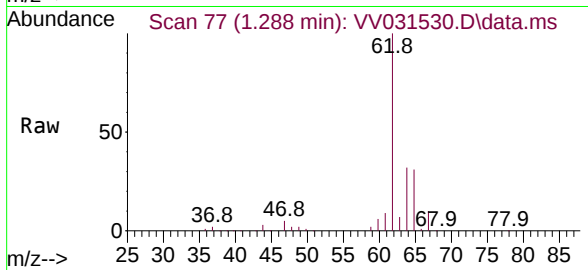
EXYS8

Tgt Ion: 62 Resp: 164161

Ion Ratio Lower Upper

62 100

64 32.4 23.4 43.4



#8

Chloroethane

Concen: 13.096 ug/L

RT: 1.555 min Scan# 160

Delta R.T. 0.000 min

Lab File: VV031530.D

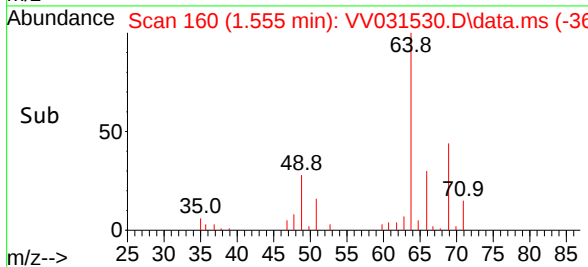
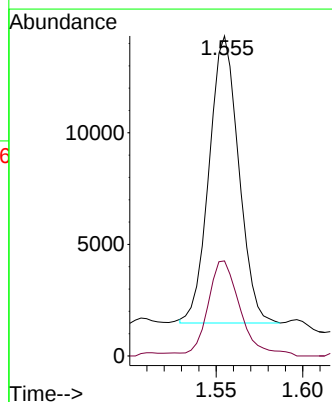
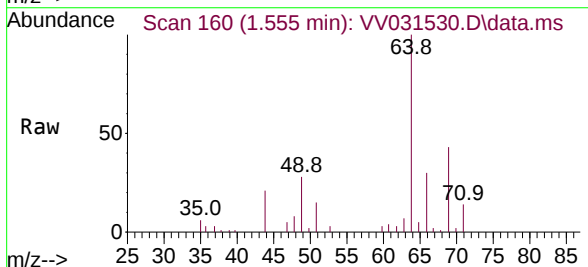
Acq: 15 Jun 2023 14:50

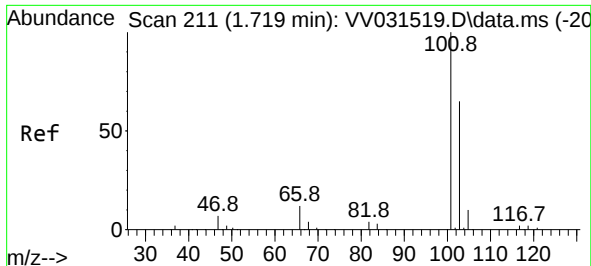
Tgt Ion: 64 Resp: 15292

Ion Ratio Lower Upper

64 100

66 29.7 21.0 39.0

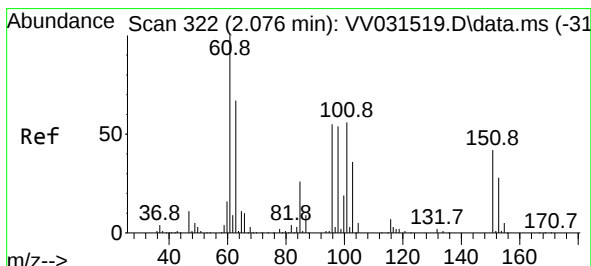
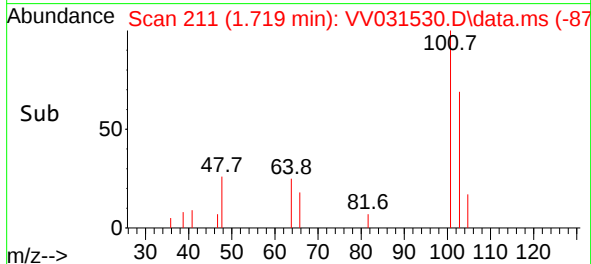
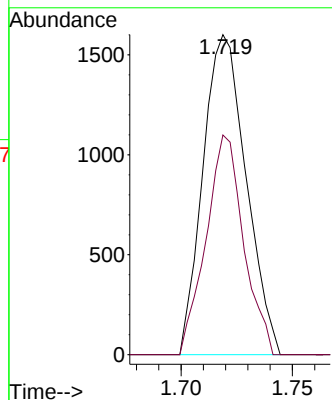
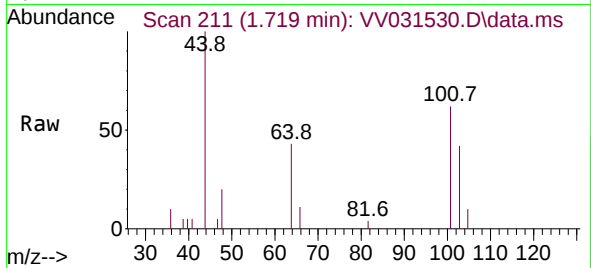




#9
 Trichlorofluoromethane
 Concen: 0.716 ug/L
 RT: 1.719 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: VV031530.D
 Acq: 15 Jun 2023 14:50

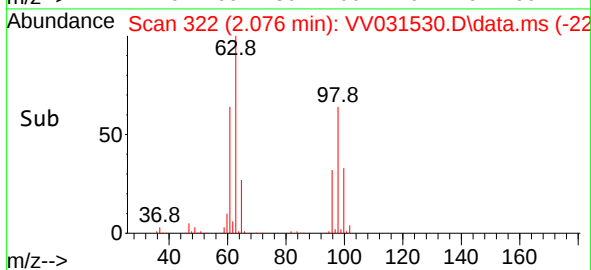
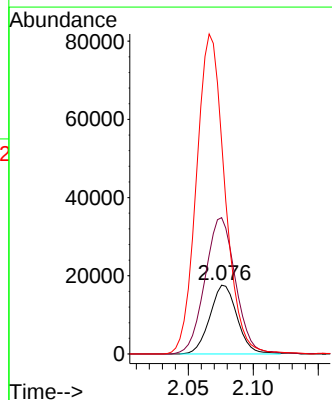
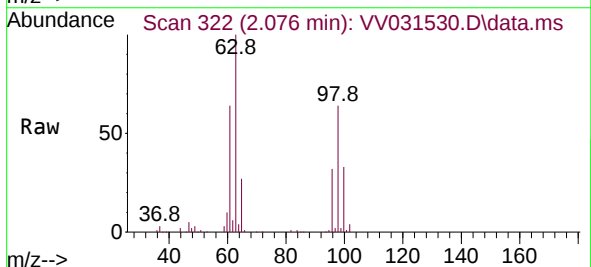
Instrument :
 MSVOA_V
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 EXYS8

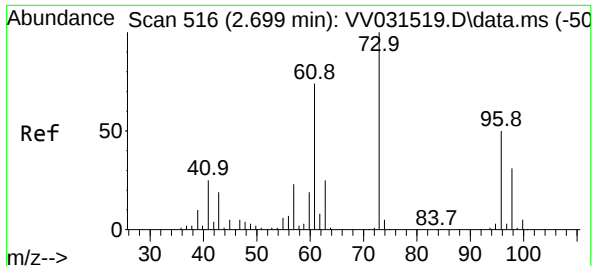
Tgt Ion:101 Resp: 2153
 Ion Ratio Lower Upper
 101 100
 103 59.8 50.9 76.3



#12
 1,1-Dichloroethene
 Concen: 19.086 ug/L
 RT: 2.076 min Scan# 322
 Delta R.T. 0.000 min
 Lab File: VV031530.D
 Acq: 15 Jun 2023 14:50

Tgt Ion: 96 Resp: 25732
 Ion Ratio Lower Upper
 96 100
 61 198.1 128.9 239.5
 63 308.5 95.3 177.1#





#17

trans-1,2-Dichloroethene

Concen: 8.032 ug/L

RT: 2.703 min Scan# 516

Delta R.T. 0.003 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Instrument :

MSVOA_V

ClientSampleId :

EXYS8

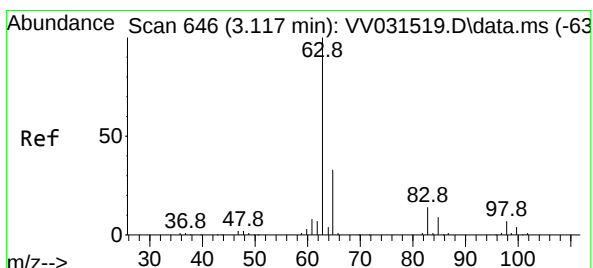
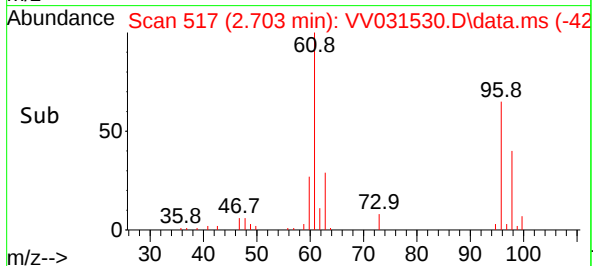
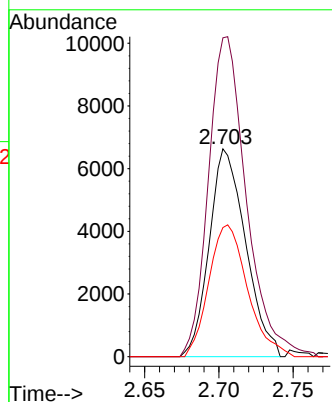
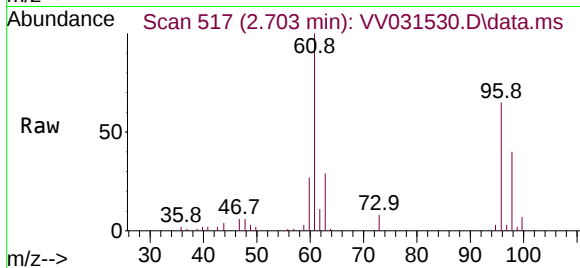
Tgt Ion: 96 Resp: 11304

Ion Ratio Lower Upper

96 100

61 153.5 102.5 190.3

98 62.1 44.1 81.9



#19

1,1-Dichloroethane

Concen: 367.442 ug/L

RT: 3.121 min Scan# 647

Delta R.T. 0.003 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

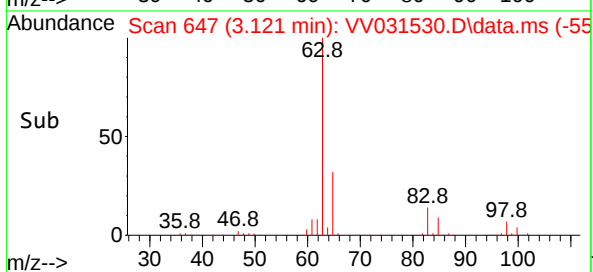
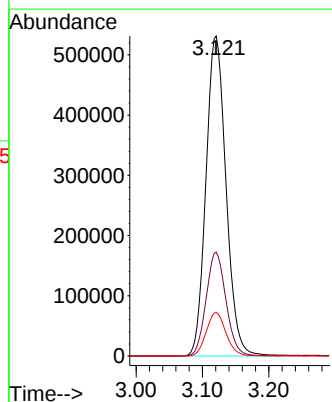
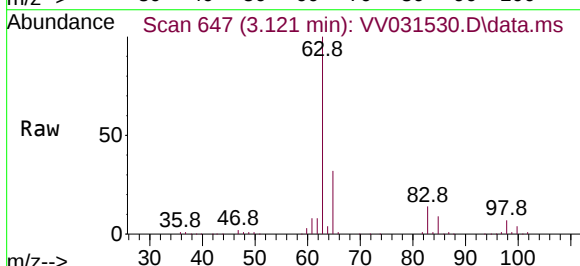
Tgt Ion: 63 Resp: 1116056

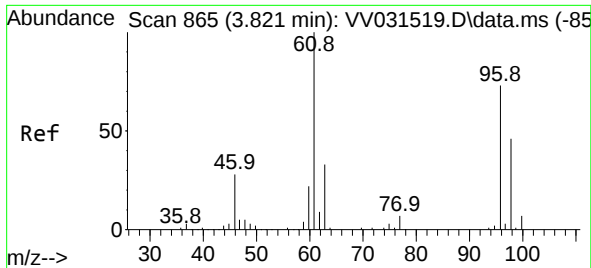
Ion Ratio Lower Upper

63 100

65 32.4 22.5 41.7

83 13.6 10.0 18.6



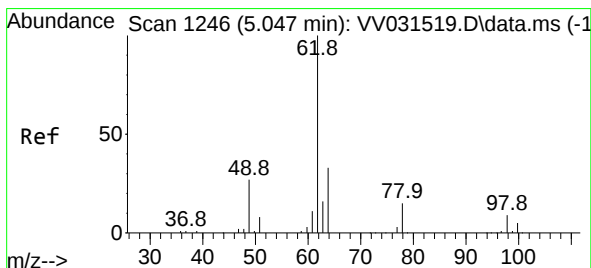
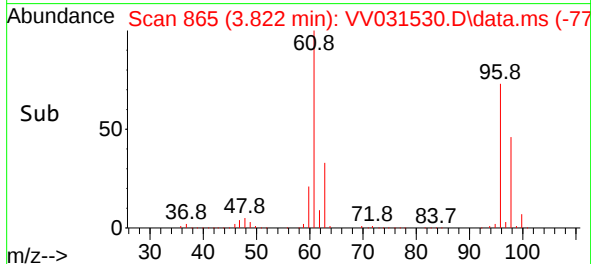
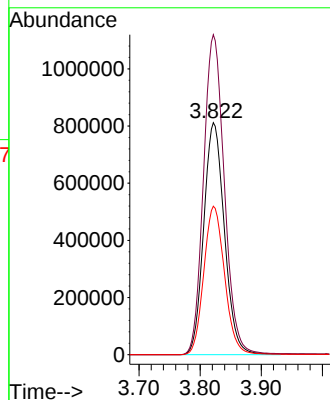
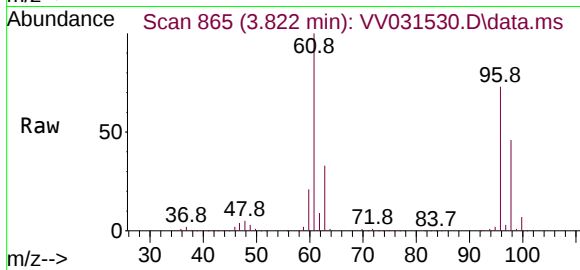


#20
 cis-1,2-Dichloroethene
 Concen: 1256.661 ug/L
 RT: 3.822 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VV031530.D
 Acq: 15 Jun 2023 14:50

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS8

Tgt Ion: 96 Resp: 1911218

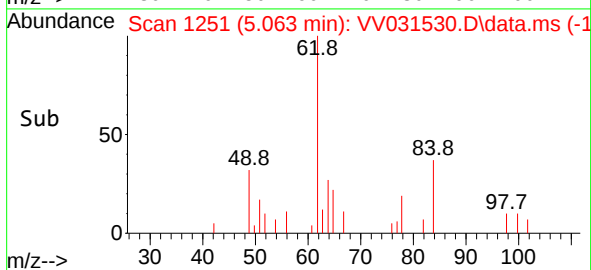
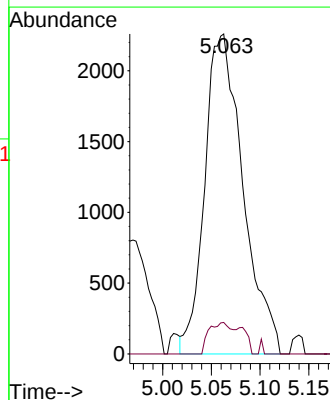
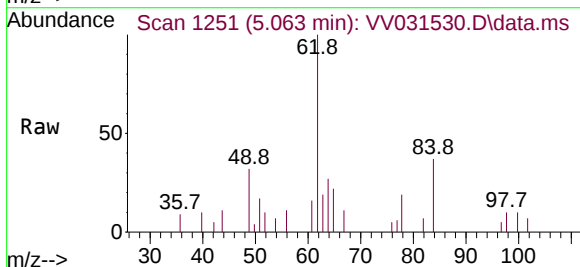
Ion	Ratio	Lower	Upper
96	100		
61	137.9	98.6	183.0
98	64.0	45.7	84.9

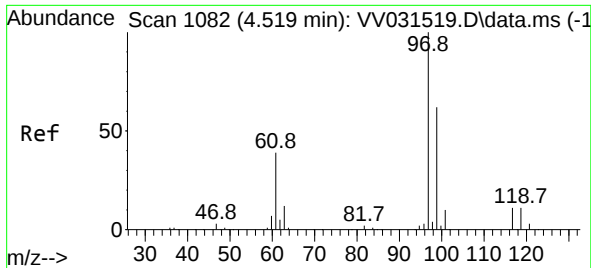


#27
 1,2-Dichloroethane
 Concen: 2.530 ug/L
 RT: 5.063 min Scan# 1251
 Delta R.T. 0.016 min
 Lab File: VV031530.D
 Acq: 15 Jun 2023 14:50

Tgt Ion: 62 Resp: 6166

Ion	Ratio	Lower	Upper
62	100		
98	9.8	6.6	9.8



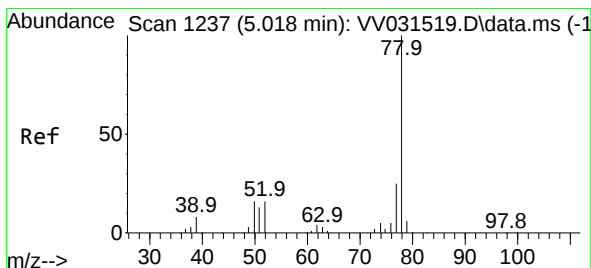
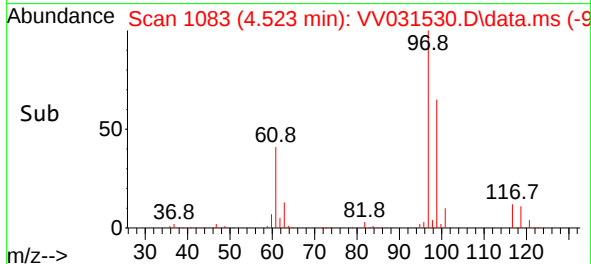
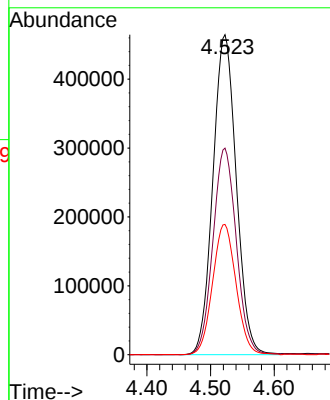
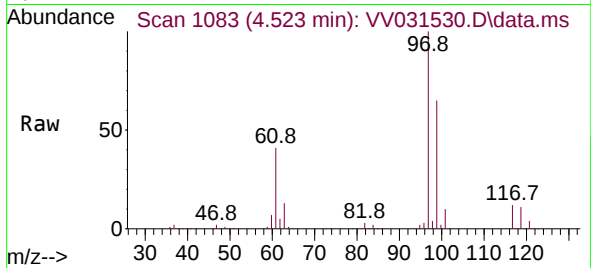


#30
1,1,1-Trichloroethane
Concen: 410.807 ug/L
RT: 4.523 min Scan# 1082
Delta R.T. 0.003 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

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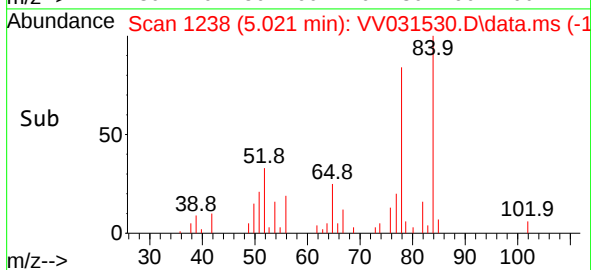
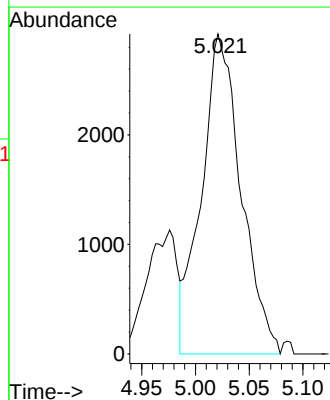
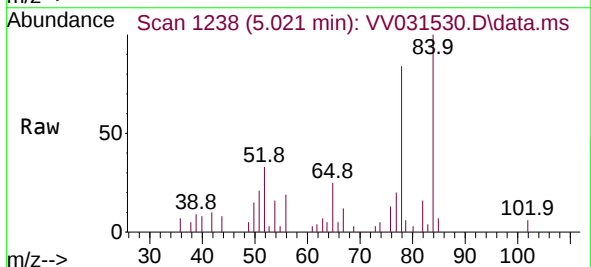
Tgt Ion: 97 Resp: 1186101

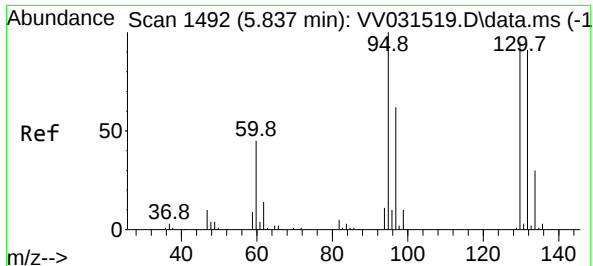
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.6
61	40.9	33.0	49.6



#33
Benzene
Concen: 1.246 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. 0.003 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

Tgt Ion: 78 Resp: 7470



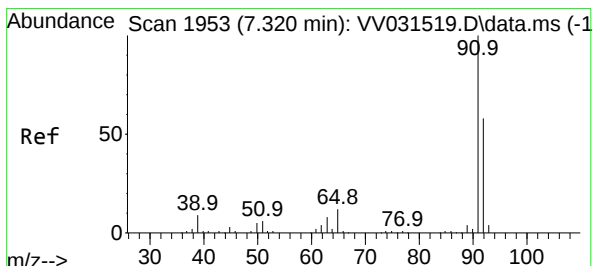
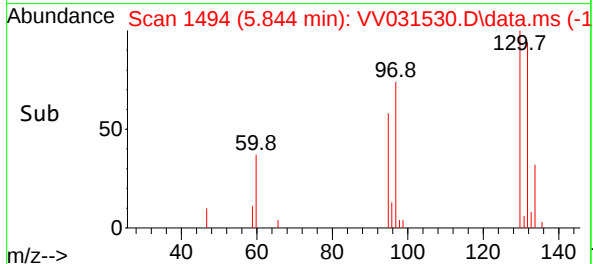
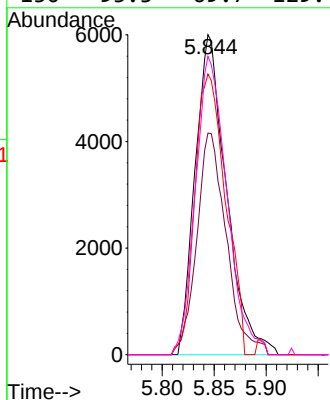
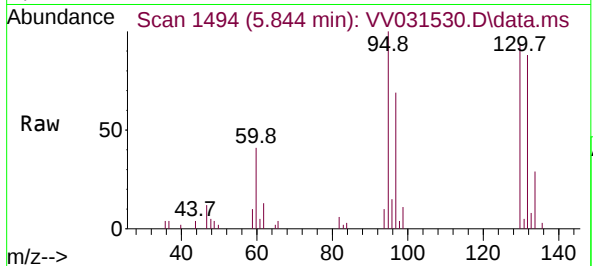


#34
Trichloroethene
Concen: 7.851 ug/L
RT: 5.844 min Scan# 1492
Delta R.T. 0.007 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

Instrument :
MSVOA_V
ClientSampleId :
EXYS8

Tgt Ion: 95 Resp: 12579

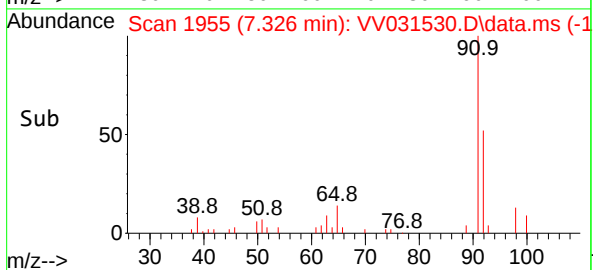
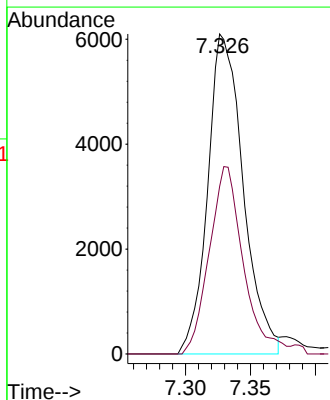
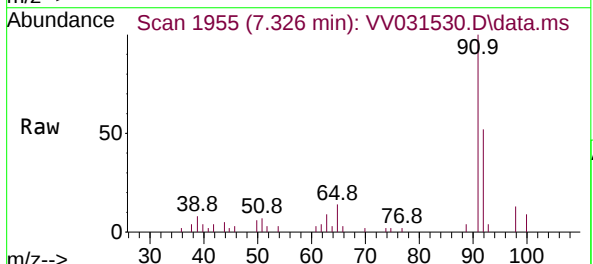
Ion	Ratio	Lower	Upper
95	100		
97	69.2	46.8	86.8
132	95.5	66.4	123.2
130	93.3	69.7	129.4

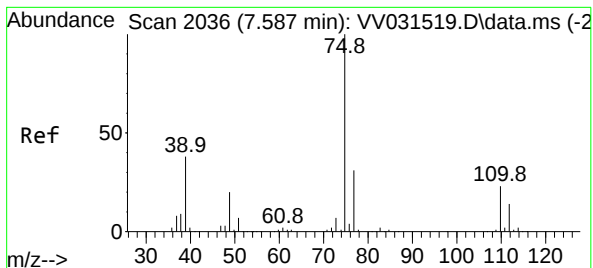


#42
Toluene
Concen: 1.866 ug/L
RT: 7.326 min Scan# 1955
Delta R.T. 0.007 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

Tgt Ion: 91 Resp: 11597

Ion	Ratio	Lower	Upper
91	100		
92	52.4	39.6	73.6





#44

trans-1,3-Dichloropropene

Concen: 0.901 ug/L

RT: 7.558 min Scan# 2036

Delta R.T. -0.029 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Instrument :

MSVOA_V

ClientSampleId :

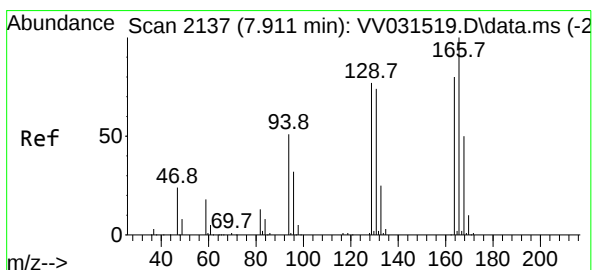
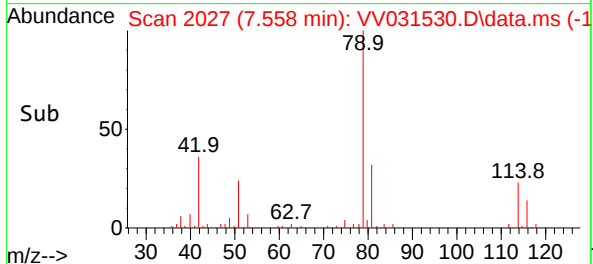
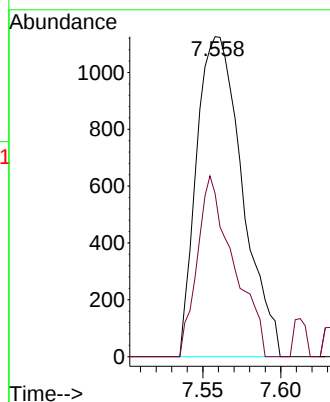
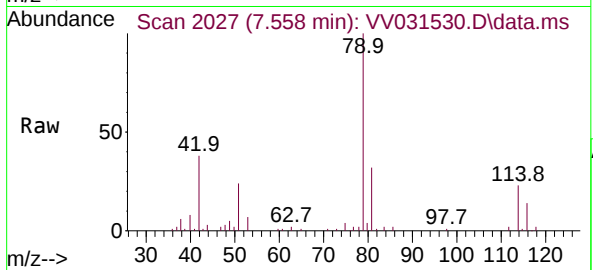
EXYS8

Tgt Ion: 75 Resp: 2292

Ion Ratio Lower Upper

75 100

77 51.0 22.1 41.1#



#46

Tetrachloroethene

Concen: 24.738 ug/L

RT: 7.911 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Tgt Ion:164 Resp: 31106

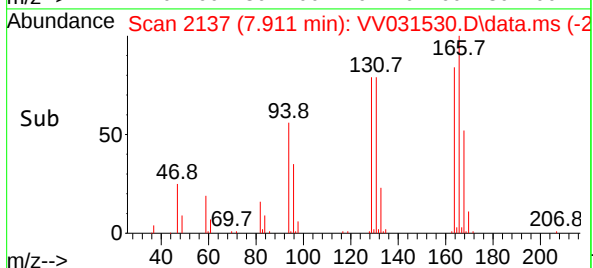
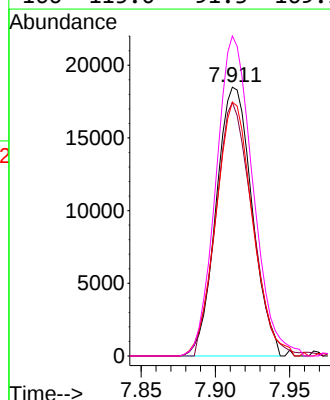
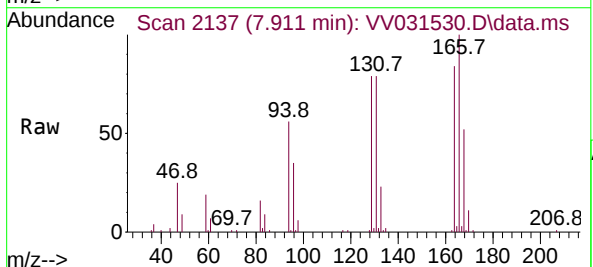
Ion Ratio Lower Upper

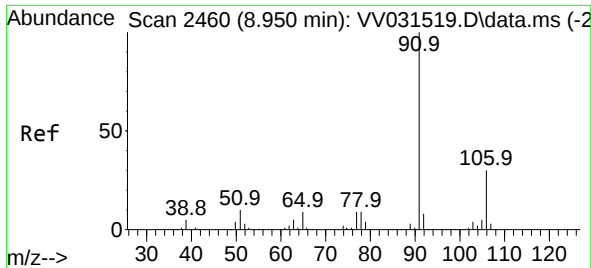
164 100

129 93.1 68.4 127.0

131 93.2 67.6 125.6

166 115.0 91.3 169.5

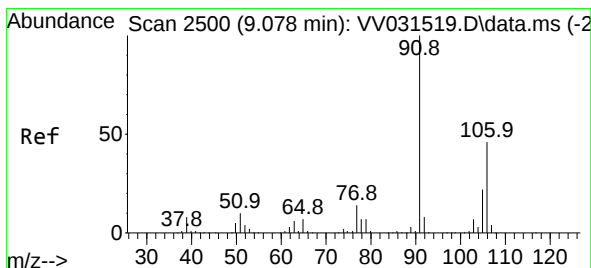
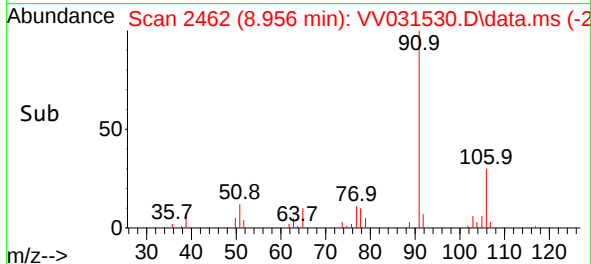
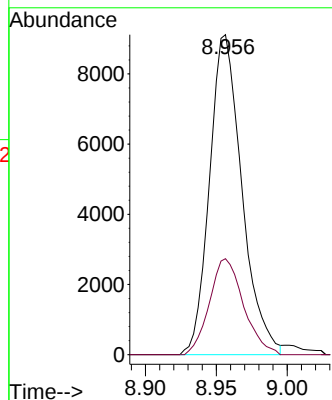
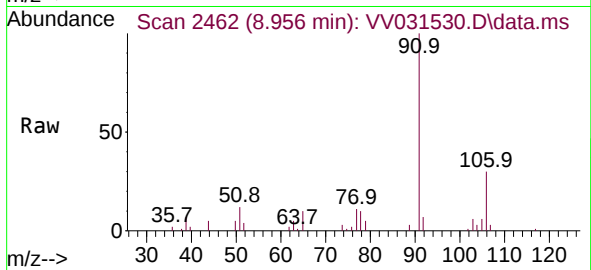




#52
Ethylbenzene
Concen: 2.091 ug/L
RT: 8.956 min Scan# 2460
Delta R.T. 0.007 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

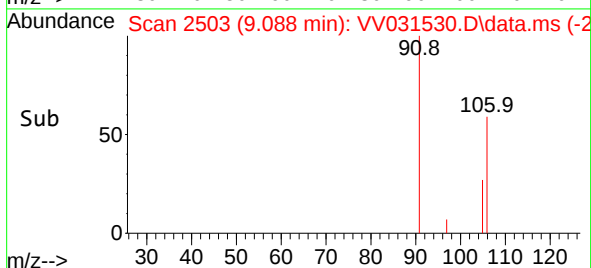
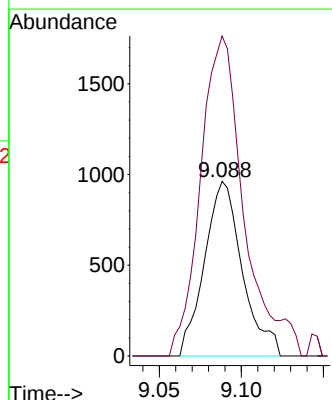
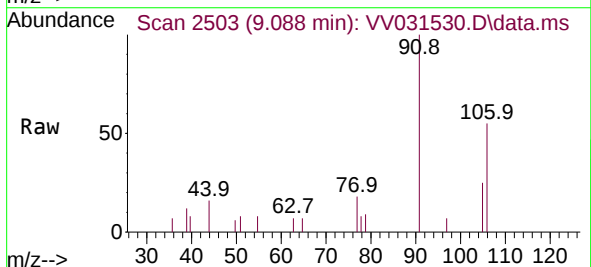
Instrument :
MSVOA_V
ClientSampleId :
EXYS8

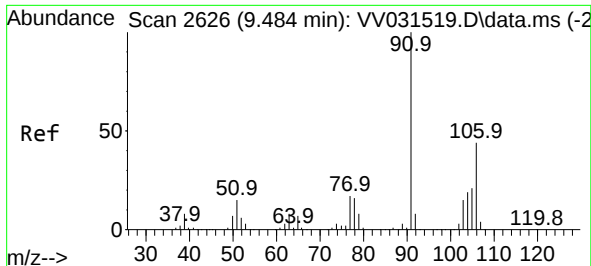
Tgt Ion: 91 Resp: 14501
Ion Ratio Lower Upper
91 100
106 30.0 20.8 38.6



#53
m,p-Xylene
Concen: 0.607 ug/L
RT: 9.088 min Scan# 2503
Delta R.T. 0.010 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

Tgt Ion: 106 Resp: 1542
Ion Ratio Lower Upper
106 100
91 183.4 149.0 276.6

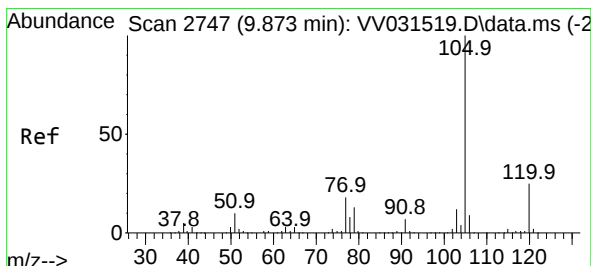
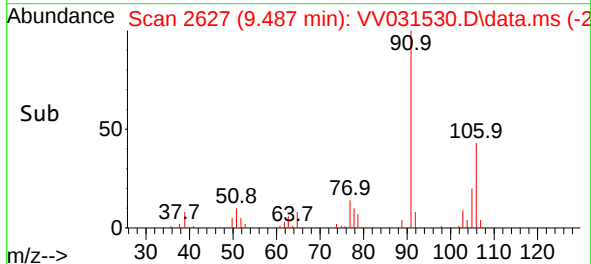
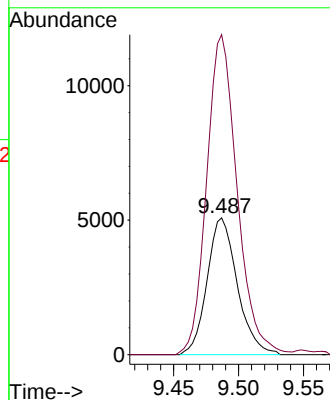
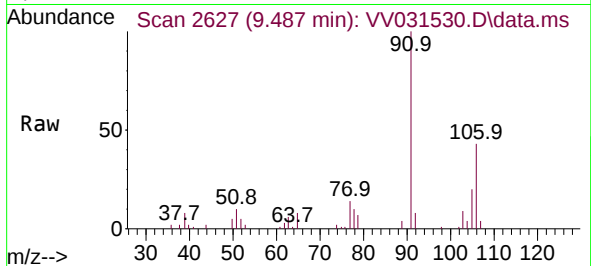




#54
o-Xylene
Concen: 3.414 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

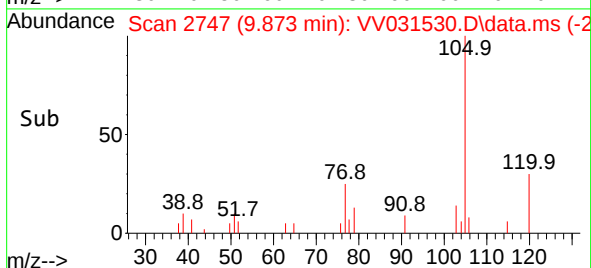
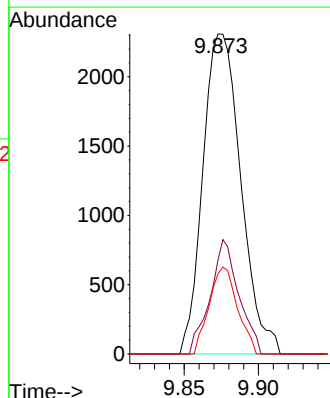
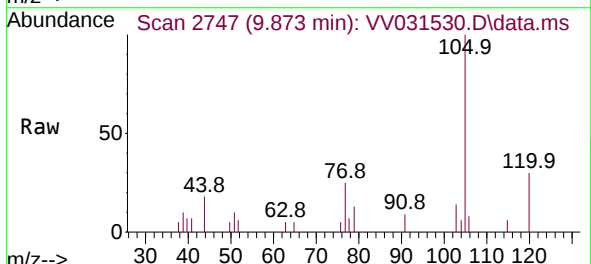
Instrument :
MSVOA_V
ClientSampleId :
EXYS8

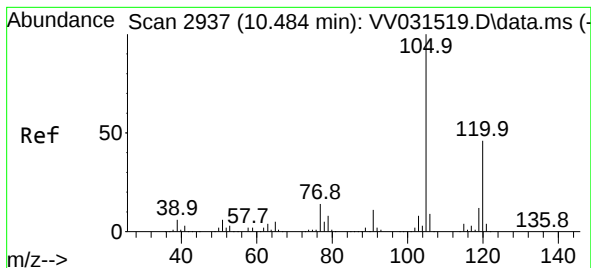
Tgt Ion:106 Resp: 8229
Ion Ratio Lower Upper
106 100
91 233.9 161.3 299.7



#60
Isopropylbenzene
Concen: 0.672 ug/L
RT: 9.873 min Scan# 2747
Delta R.T. 0.000 min
Lab File: VV031530.D
Acq: 15 Jun 2023 14:50

Tgt Ion:105 Resp: 4103
Ion Ratio Lower Upper
105 100
120 27.0 20.2 30.2
77 20.2 13.5 20.3





#62

1,3,5-Trimethylbenzene

Concen: 1.303 ug/L

RT: 10.484 min Scan# 2937

Delta R.T. 0.000 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Instrument :

MSVOA_V

ClientSampleId :

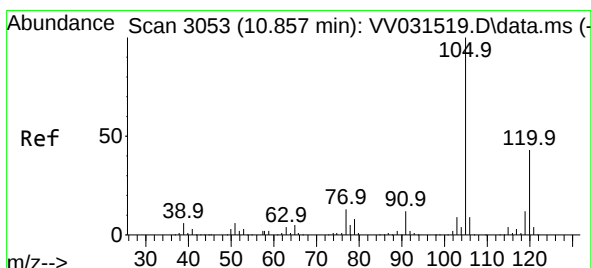
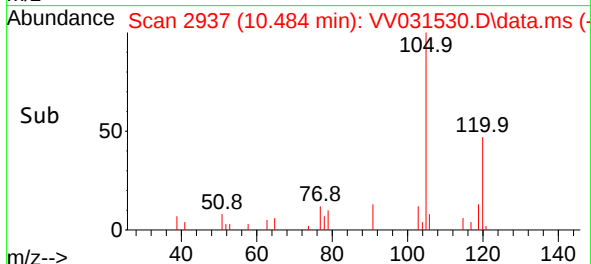
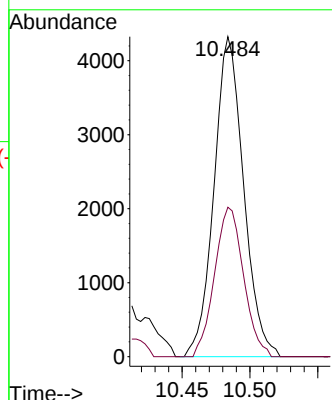
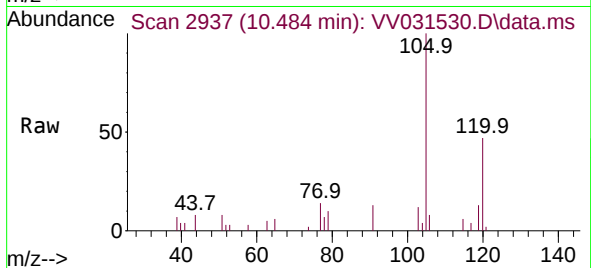
EXYS8

Tgt Ion:105 Resp: 6572

Ion Ratio Lower Upper

105 100

120 45.7 36.2 54.2



#63

1,2,4-Trimethylbenzene

Concen: 5.247 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. 0.003 min

Lab File: VV031530.D

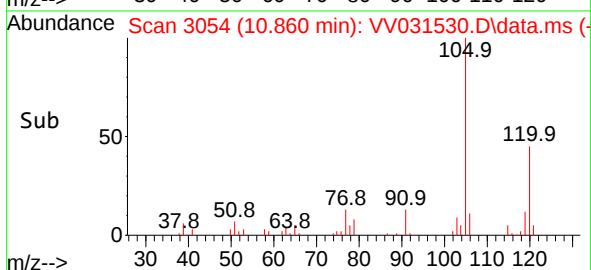
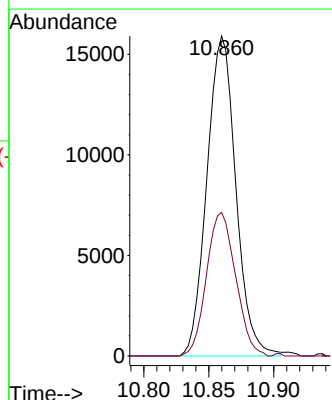
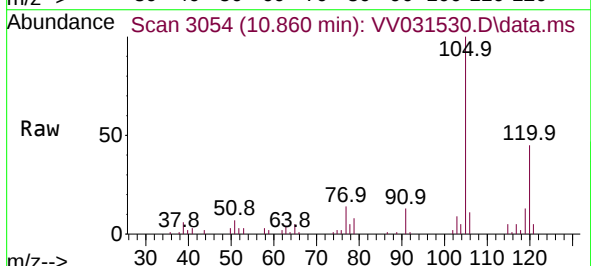
Acq: 15 Jun 2023 14:50

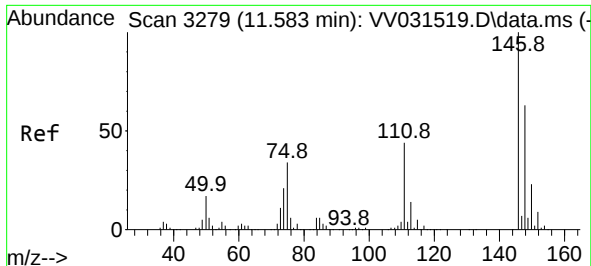
Tgt Ion:105 Resp: 24658

Ion Ratio Lower Upper

105 100

120 45.1 33.4 50.2





#67

1,2-Dichlorobenzene

Concen: 1.040 ug/L

RT: 11.587 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Instrument :

MSVOA_V

ClientSampleId :

EXYS8

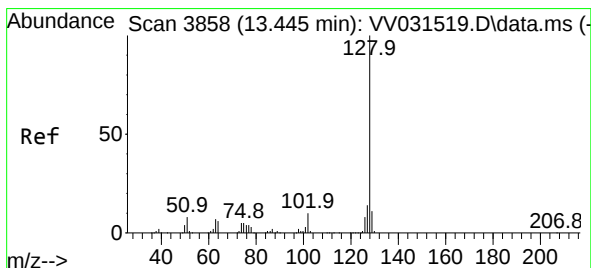
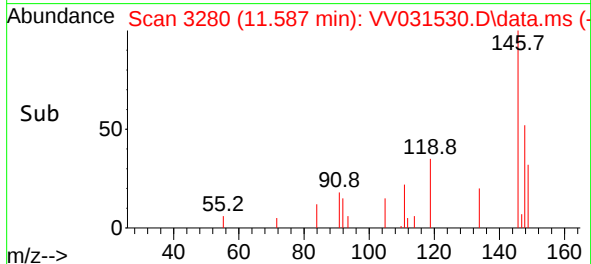
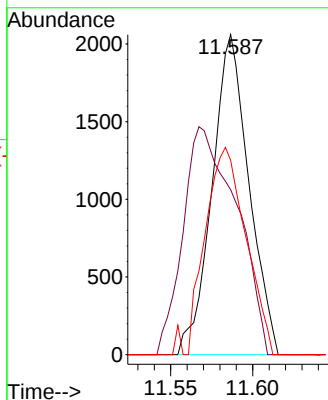
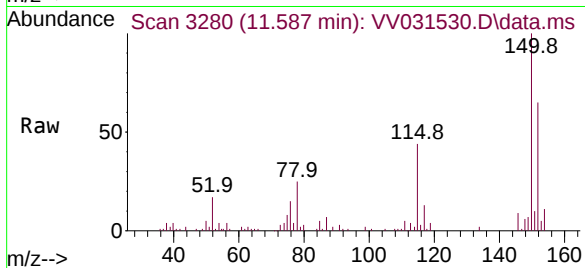
Tgt Ion:146 Resp: 3210

Ion Ratio Lower Upper

146 100

111 51.6 35.9 53.9

148 60.7 52.6 78.8



#71

Naphthalene

Concen: 1.486 ug/L

RT: 13.451 min Scan# 3860

Delta R.T. 0.007 min

Lab File: VV031530.D

Acq: 15 Jun 2023 14:50

Tgt Ion:128 Resp: 7689

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 5.8 8.6 13.0#

