

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031822\
 Data File : VW025102.D
 Acq On : 18 Mar 2022 16:55
 Operator : SY/MD
 Sample : N2018-06
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0QA8

Quant Time: Mar 19 00:57:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Mar 19 00:53:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	173337	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	159859	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	80489	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	54328	3.970	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.400%
7) Chloroethane-d5	1.568	69	44166	4.407	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.200%
11) 1,1-Dichloroethene-d2	2.108	63	72261	3.267	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.400%
20) 2-Butanone-d5	3.911	46	85478	51.684	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.360%
24) Chloroform-d	4.352	84	98643	4.346	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.000%
26) 1,2-Dichloroethane-d4	5.037	65	42012	4.427	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.600%
32) Benzene-d6	5.053	84	213440	4.603	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.000%
36) 1,2-Dichloropropane-d6	6.072	67	61757	4.631	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.600%
41) Toluene-d8	7.316	98	187930	4.447	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.000%
43) trans-1,3-Dichloroprop...	7.625	79	18498	3.979	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.600%
46) 2-Hexanone-d5	8.091	63	83157	52.444	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.880%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	39783	5.071	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.400%
66) 1,2-Dichlorobenzene-d4	11.622	152	65272	4.790	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.314	62	817	0.054	ug/L #	1
14) Carbon disulfide	2.294	76	3372	0.085	ug/L #	92
16) Methylene chloride	2.510	84	16499	1.233	ug/L	94
17) Methyl tert-butyl Ether	2.780	73	793	0.033	ug/L #	76
18) trans-1,2-Dichloroethene	2.773	96	688	0.052	ug/L	99
22) cis-1,2-Dichloroethene	3.918	96	14912	1.111	ug/L	99
25) Chloroform	4.378	83	11907	0.506	ug/L	100
27) 1,2-Dichloroethane	5.046	62	887	0.076	ug/L #	71
33) Benzene	5.111	78	7409	0.142	ug/L	100
34) Trichloroethene	5.918	95	14774	1.067	ug/L	96
35) Methylcyclohexane	6.124	83	2511	0.115	ug/L	88
37) 1,2-Dichloropropane	6.072	63	6165	0.516	ug/L #	86
39) cis-1,3-Dichloropropene	6.992	75	1210	0.073	ug/L #	75
42) Toluene	7.390	91	59199	1.088	ug/L	97
45) 1,1,2-Trichloroethane	7.789	97	578	0.072	ug/L #	15
47) Tetrachloroethene	7.982	164	599	0.062	ug/L	91
49) Dibromochloromethane	7.979	129	570	0.064	ug/L #	10
52) Ethylbenzene	9.014	91	24115	0.419	ug/L	96
53) m,p-xylene	9.136	106	78276	3.531	ug/L	98

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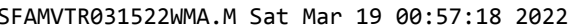
Quant Time: Mar 19 00:57:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
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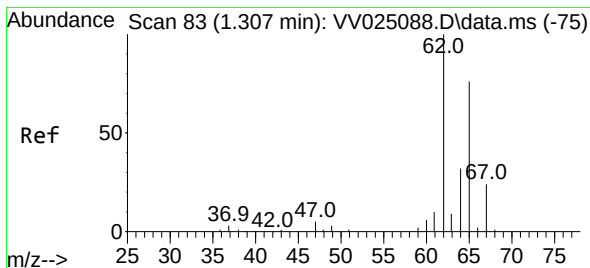
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

54) o-xylene	9.541	106	70902	3.345	ug/L	96
55) Styrene	9.564	104	6394	0.185	ug/L #	78
57) 1,1,2,2-Tetrachloroethane	10.242	83	959	0.123	ug/L #	48
60) Isopropylbenzene	9.931	105	16566	0.273	ug/L #	68
61) 1,2,3-Trichloropropane	10.445	75	775	0.114	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	201591	7.319	ug/L	99
63) 1,2,4-Trimethylbenzene	10.911	105	523674	10.735	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.406	75	1654	1.425	ug/L #	1
71) Naphthalene	13.500	128	8873873	368.777	ug/L	97

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

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#5

Vinyl chloride

Concen: 0.054 ug/L

RT: 1.314 min Scan# 81

Delta R.T. 0.006 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Instrument :

MSVOA_V

ClientSampleId :

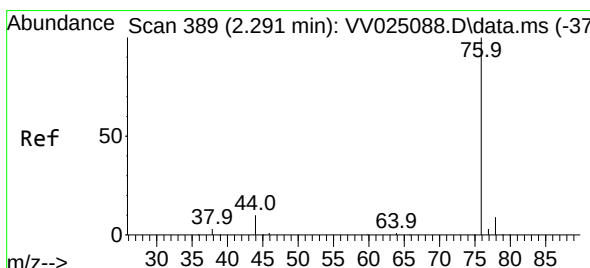
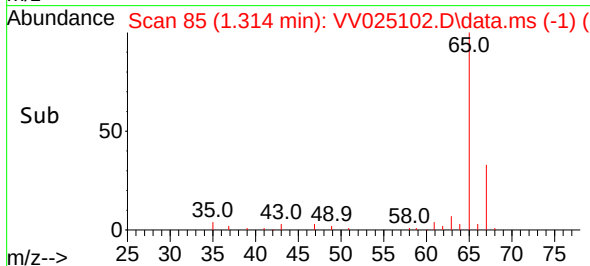
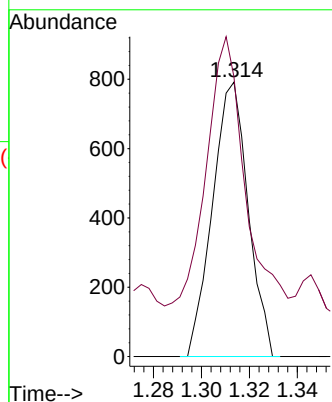
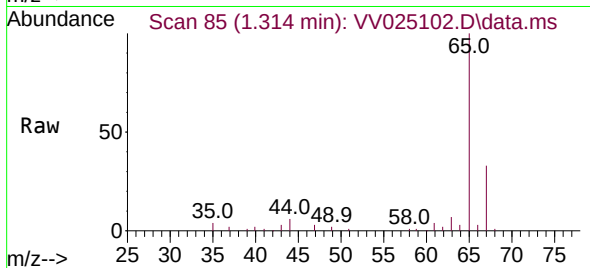
C0QA8

Tgt Ion: 62 Resp: 817

Ion Ratio Lower Upper

62 100

64 101.9 23.4 43.4#



#14

Carbon disulfide

Concen: 0.085 ug/L

RT: 2.294 min Scan# 390

Delta R.T. 0.003 min

Lab File: VV025102.D

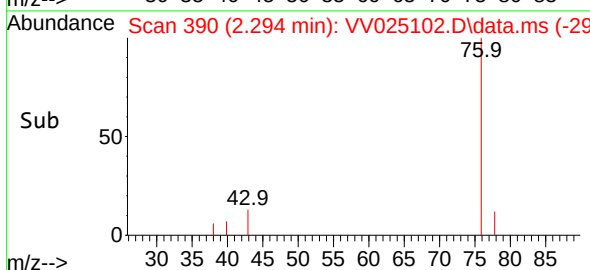
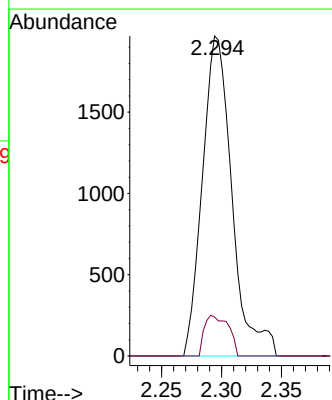
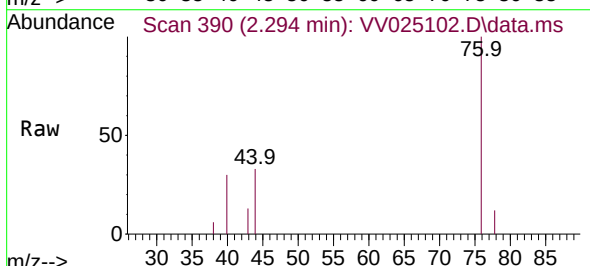
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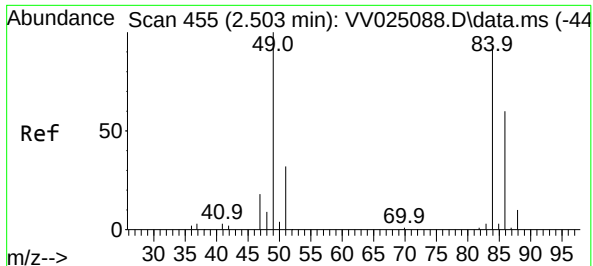
Tgt Ion: 76 Resp: 3372

Ion Ratio Lower Upper

76 100

78 12.1 7.4 11.0#

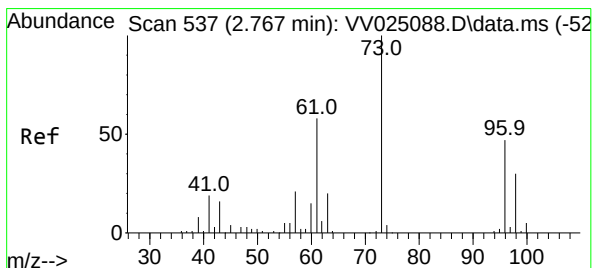
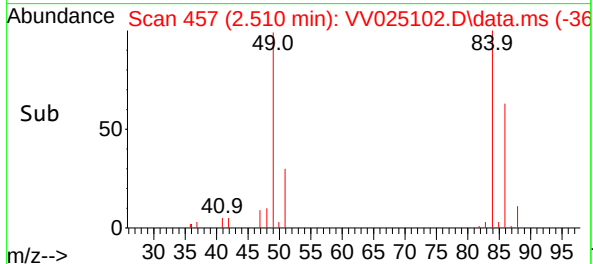
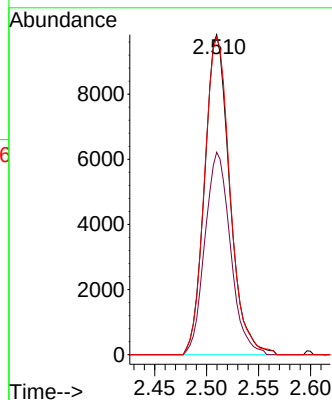
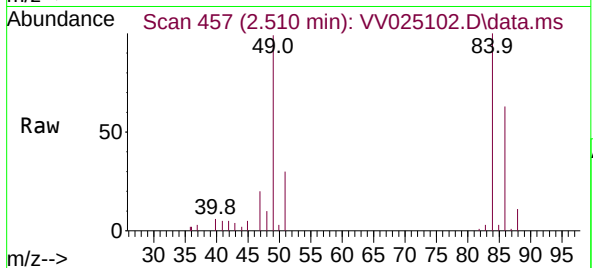




#16
Methylene chloride
Concen: 1.233 ug/L
RT: 2.510 min Scan# 416
Delta R.T. 0.006 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

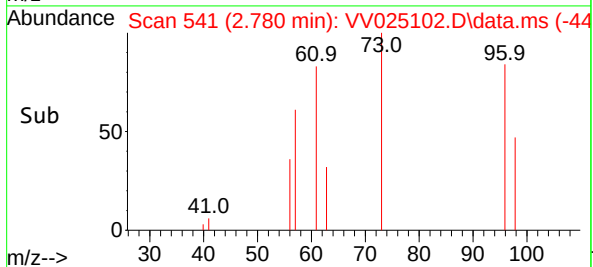
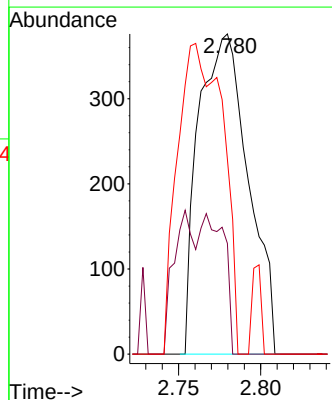
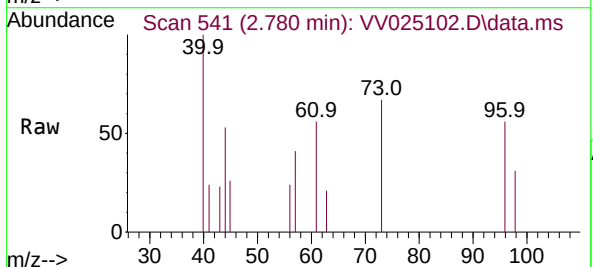
Instrument :
MSVOA_V
ClientSampleId :
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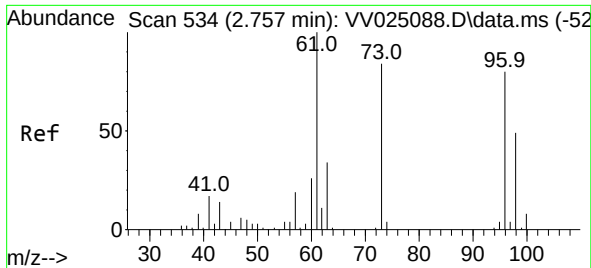
Tgt Ion: 84 Resp: 16499
Ion Ratio Lower Upper
84 100
86 63.3 45.5 84.5
49 99.2 75.0 139.2



#17
Methyl tert-butyl Ether
Concen: 0.033 ug/L
RT: 2.780 min Scan# 541
Delta R.T. 0.013 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 73 Resp: 793
Ion Ratio Lower Upper
73 100
43 21.1 13.2 19.8#
57 5.0 16.7 25.1#

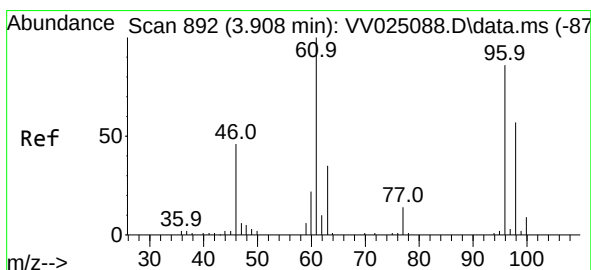
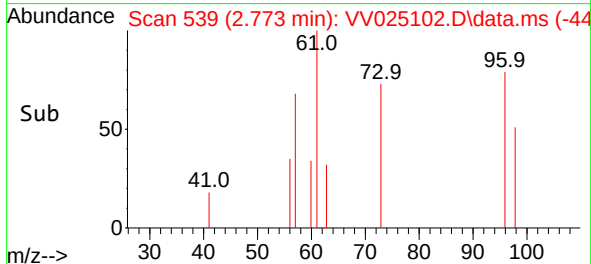
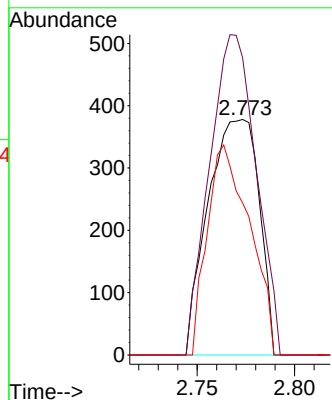
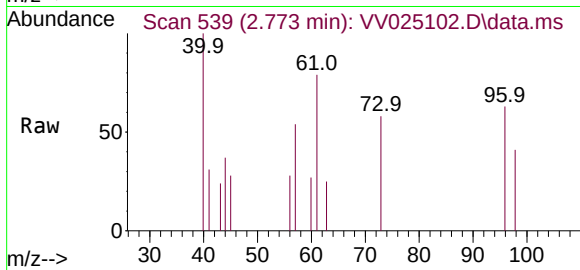




#18
trans-1,2-Dichloroethene
Concen: 0.052 ug/L
RT: 2.773 min Scan# 511
Delta R.T. 0.016 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

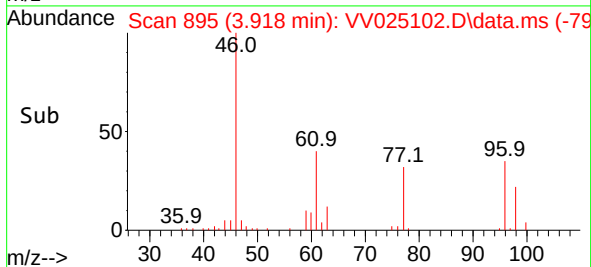
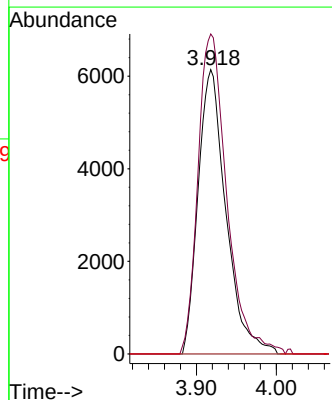
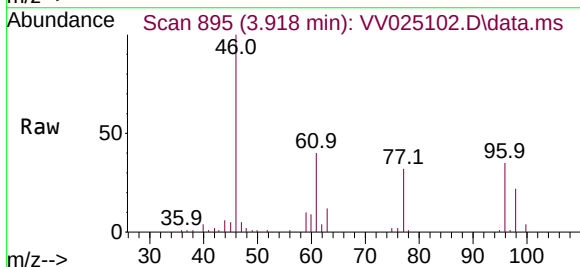
Instrument :
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ClientSampleId :
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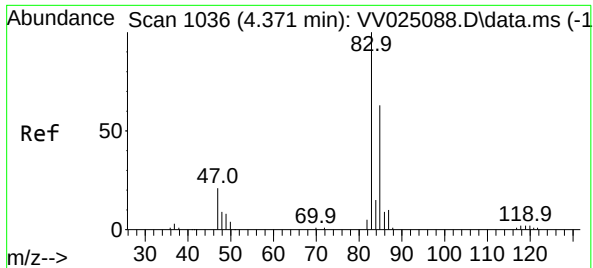
Tgt Ion: 96 Resp: 688
Ion Ratio Lower Upper
96 100
61 126.2 89.2 165.6
98 64.6 43.9 81.5



#22
cis-1,2-Dichloroethene
Concen: 1.111 ug/L
RT: 3.918 min Scan# 895
Delta R.T. 0.010 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 96 Resp: 14912
Ion Ratio Lower Upper
96 100
61 112.5 79.7 147.9
68 0.0 0.0 0.0

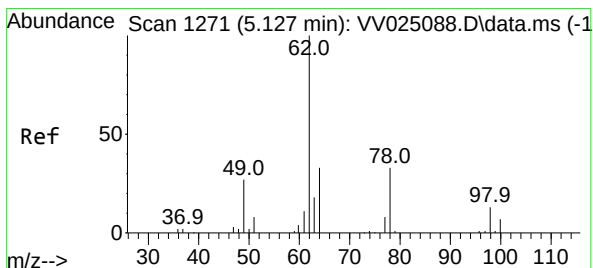
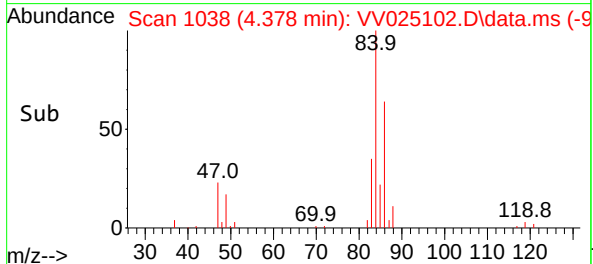
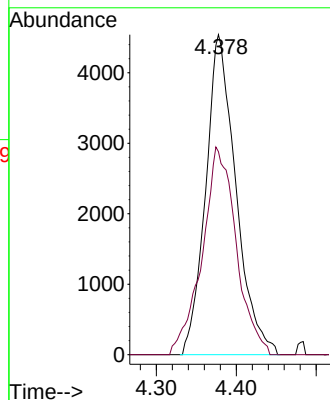
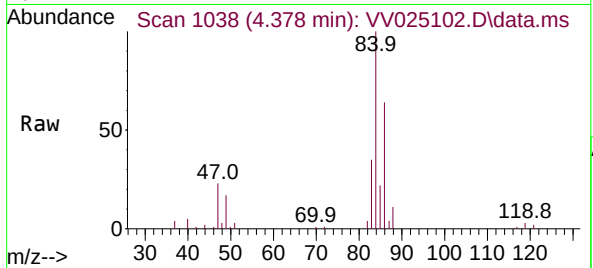




#25
Chloroform
Concen: 0.506 ug/L
RT: 4.378 min Scan# 11907
Delta R.T. 0.006 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

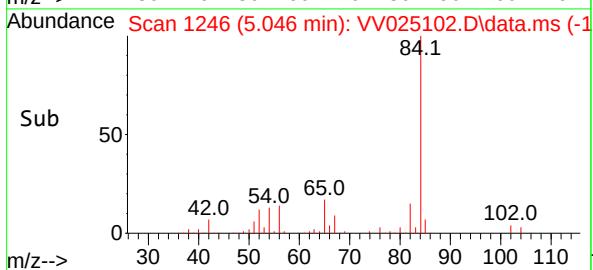
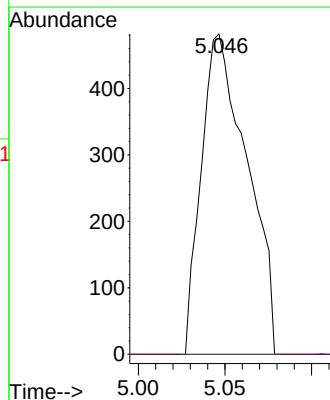
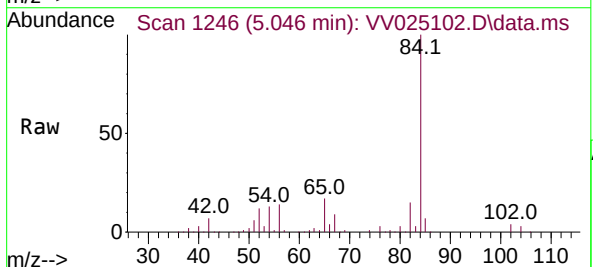
Instrument :
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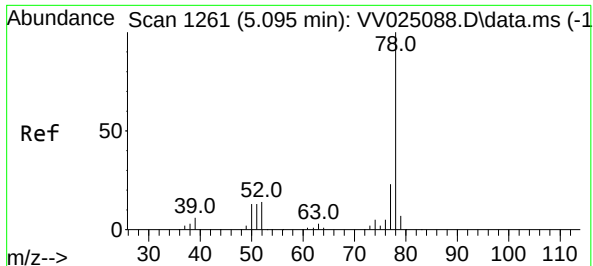
Tgt Ion: 83 Resp: 11907
Ion Ratio Lower Upper
83 100
85 63.5 44.5 82.7



#27
1,2-Dichloroethane
Concen: 0.076 ug/L
RT: 5.046 min Scan# 1246
Delta R.T. -0.081 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 62 Resp: 887
Ion Ratio Lower Upper
62 100
98 0.0 9.0 13.4#

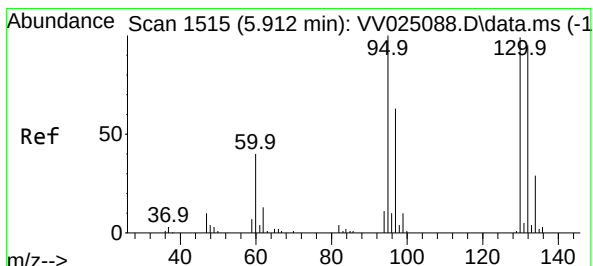
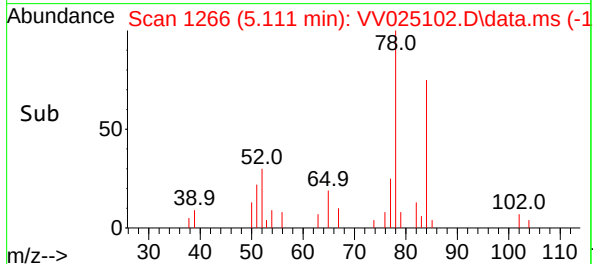
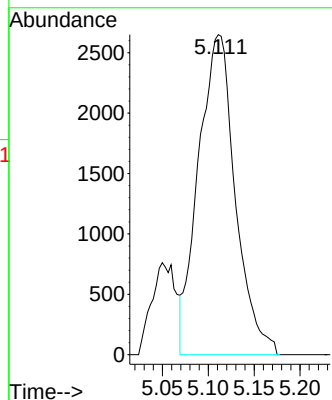
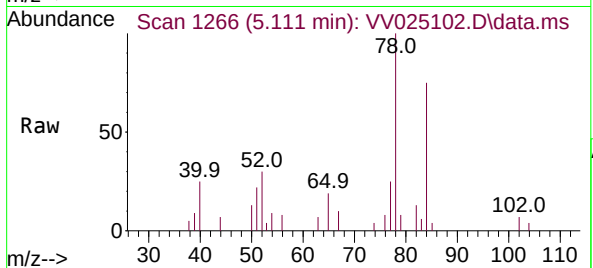




#33
Benzene
Concen: 0.142 ug/L
RT: 5.111 min Scan# 1517
Delta R.T. 0.016 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

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MSVOA_V
ClientSampleId :
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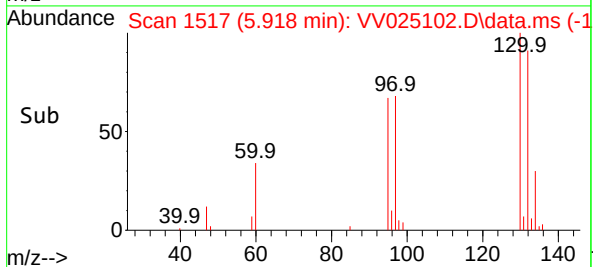
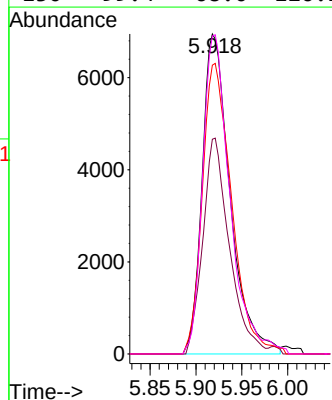
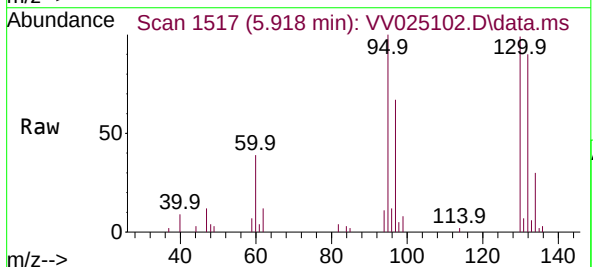
Tgt Ion: 78 Resp: 7409

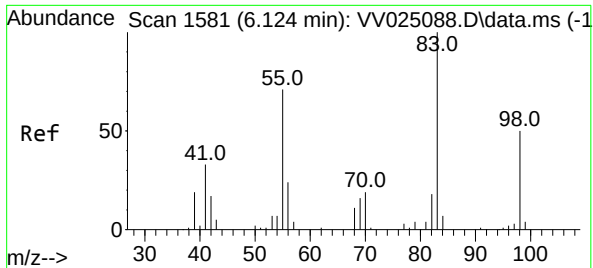


#34
Trichloroethene
Concen: 1.067 ug/L
RT: 5.918 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 95 Resp: 14774

Ion	Ratio	Lower	Upper
95	100		
97	67.1	44.5	82.7
132	90.2	66.5	123.5
130	99.4	68.0	126.2

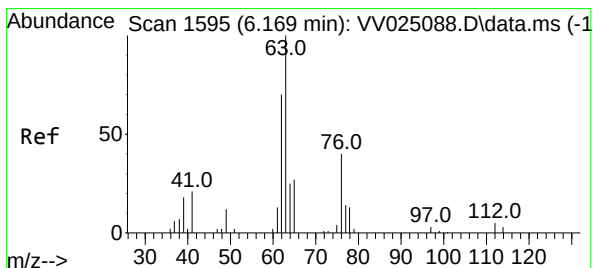
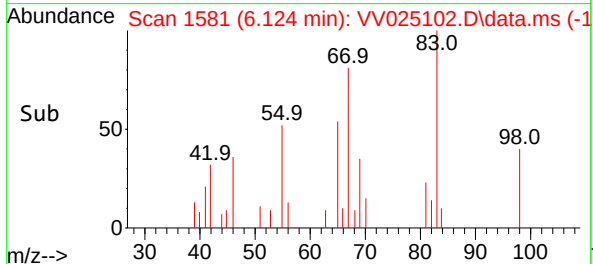
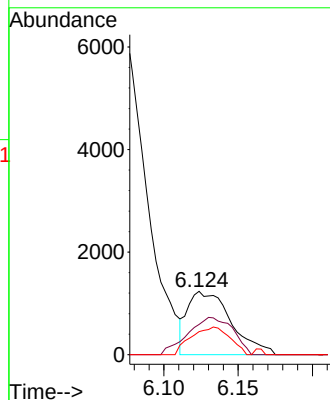
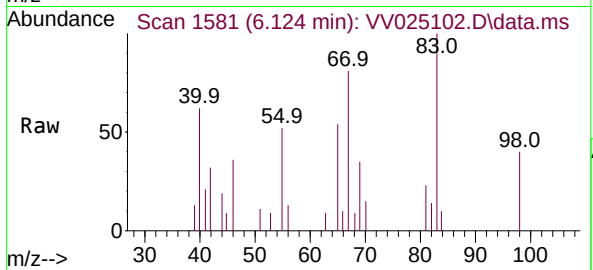




#35
Methylcyclohexane
Concen: 0.115 ug/L
RT: 6.124 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

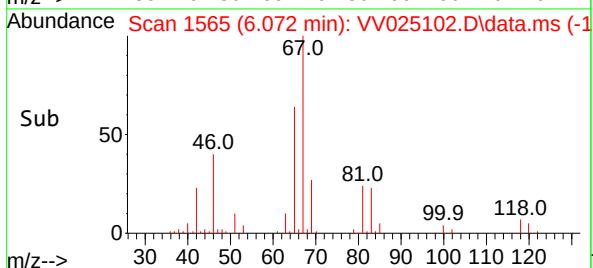
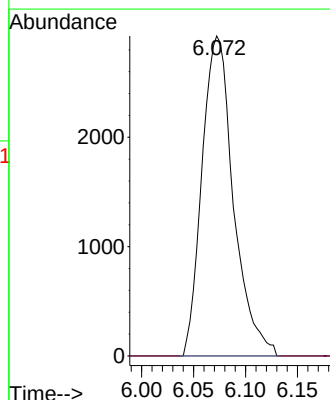
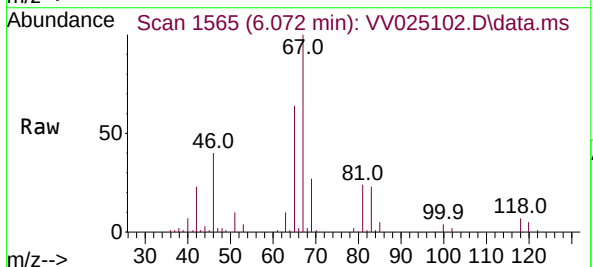
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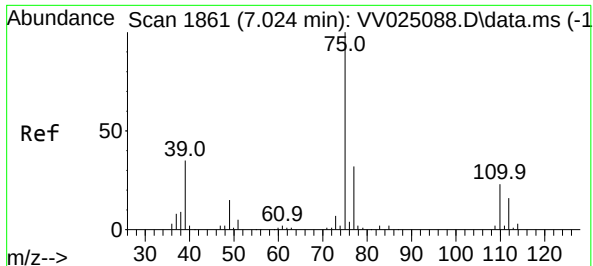
Tgt Ion: 83 Resp: 2511
Ion Ratio Lower Upper
83 100
55 60.9 55.4 83.0
98 38.9 38.4 57.6



#37
1,2-Dichloropropane
Concen: 0.516 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.097 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 63 Resp: 6165
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.073 ug/L

RT: 6.992 min Scan# 11

Delta R.T. -0.032 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Instrument :

MSVOA_V

ClientSampleId :

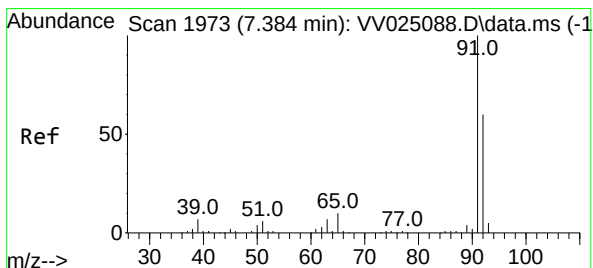
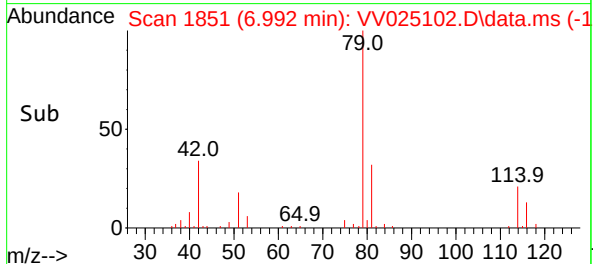
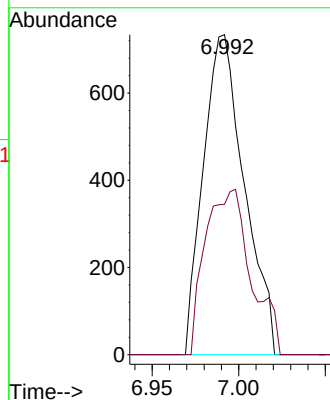
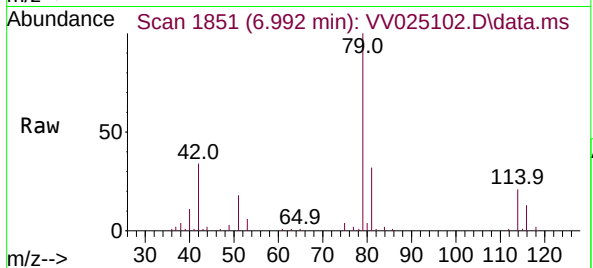
C0QA8

Tgt Ion: 75 Resp: 1210

Ion Ratio Lower Upper

75 100

77 47.0 23.0 42.8#



#42

Toluene

Concen: 1.088 ug/L

RT: 7.390 min Scan# 1975

Delta R.T. 0.006 min

Lab File: VV025102.D

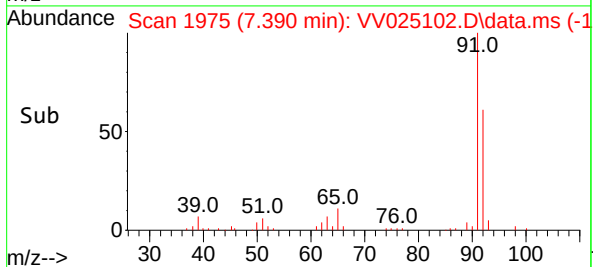
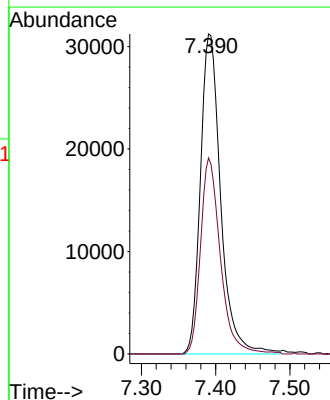
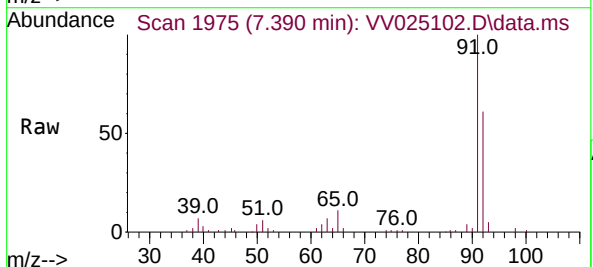
Acq: 18 Mar 2022 16:55

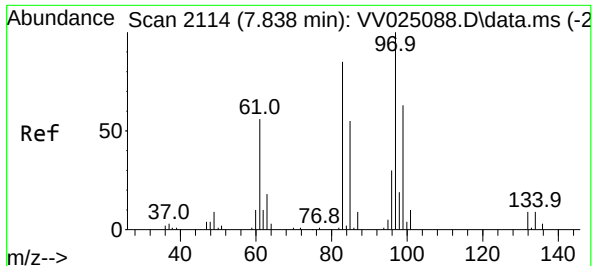
Tgt Ion: 91 Resp: 59199

Ion Ratio Lower Upper

91 100

92 61.2 41.2 76.4





#45

1,1,2-Trichloroethane

Concen: 0.072 ug/L

RT: 7.789 min Scan# 2114

Delta R.T. -0.048 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Instrument :

MSVOA_V

ClientSampleId :

C0QA8

Tgt Ion: 97 Resp: 578

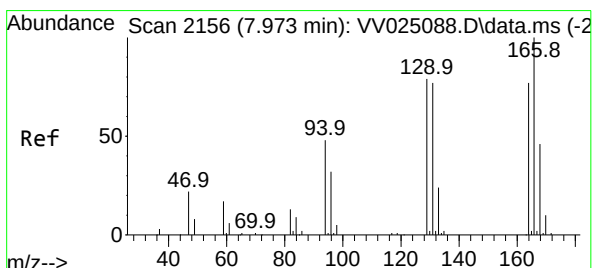
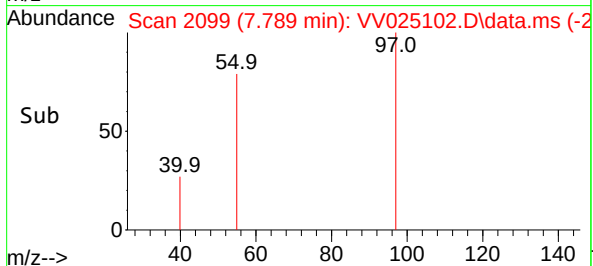
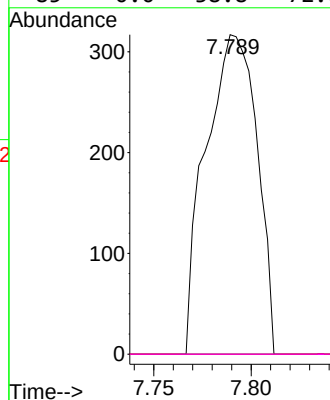
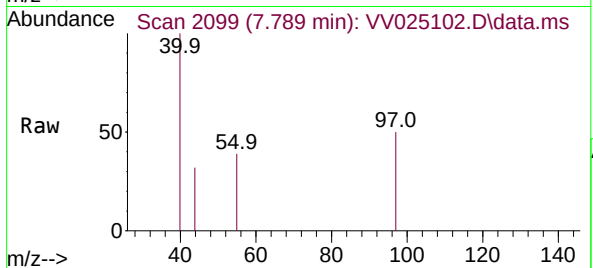
Ion Ratio Lower Upper

97 100

99 0.0 43.7 81.1#

83 0.0 58.9 109.3#

85 0.0 38.8 72.0#



#47

Tetrachloroethene

Concen: 0.062 ug/L

RT: 7.982 min Scan# 2159

Delta R.T. 0.010 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Tgt Ion: 164 Resp: 599

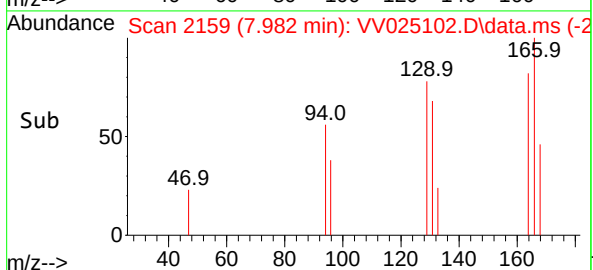
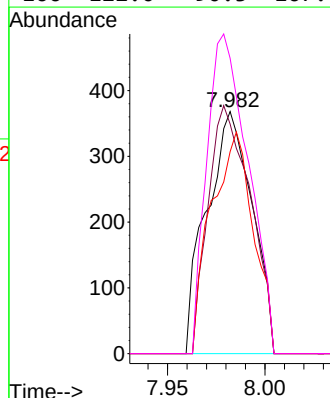
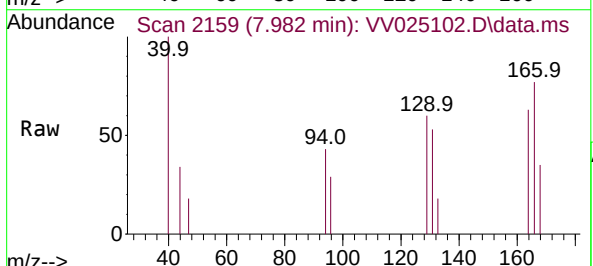
Ion Ratio Lower Upper

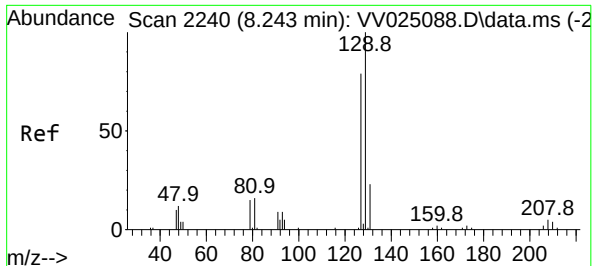
164 100

129 94.8 70.3 130.7

131 83.4 69.4 129.0

166 122.0 90.3 167.7





#49

Dibromochloromethane

Concen: 0.064 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.264 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Instrument :

MSVOA_V

ClientSampleId :

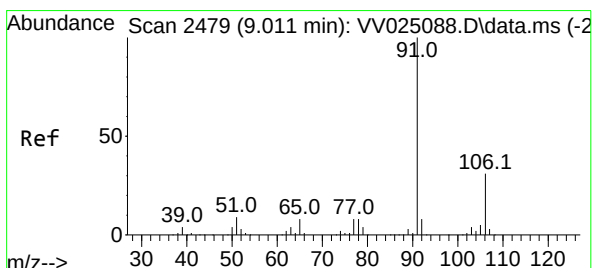
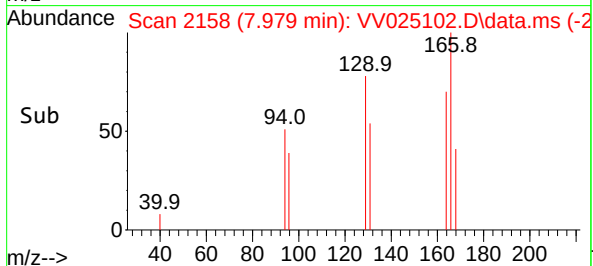
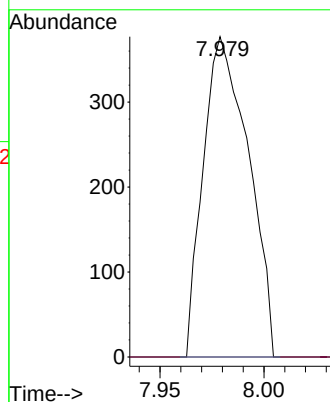
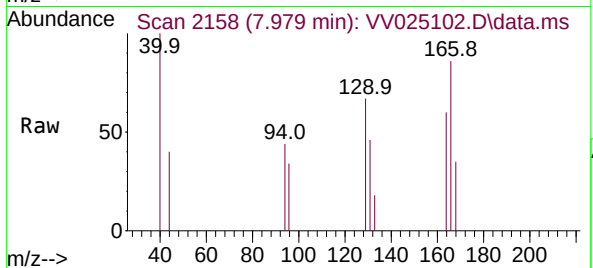
C0QA8

Tgt Ion:129 Resp: 570

Ion Ratio Lower Upper

129 100

127 0.0 54.9 102.1#



#52

Ethylbenzene

Concen: 0.419 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV025102.D

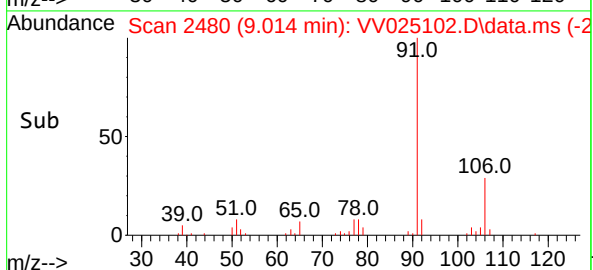
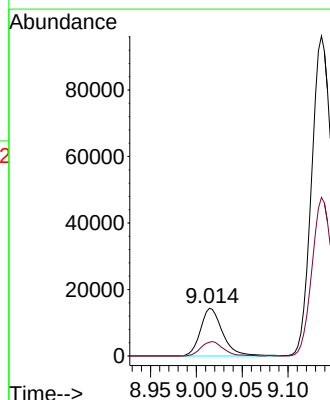
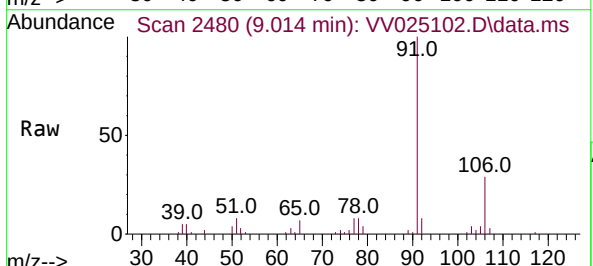
Acq: 18 Mar 2022 16:55

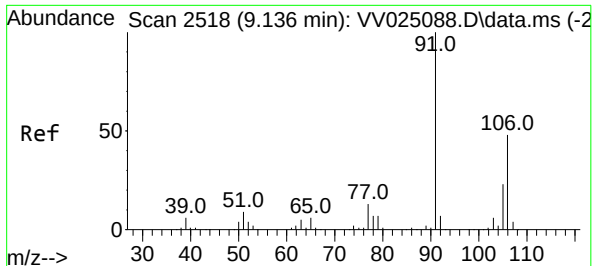
Tgt Ion: 91 Resp: 24115

Ion Ratio Lower Upper

91 100

106 29.0 21.9 40.7

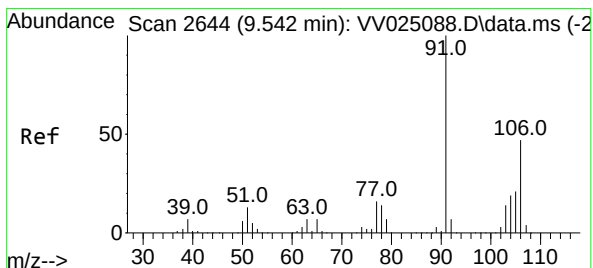
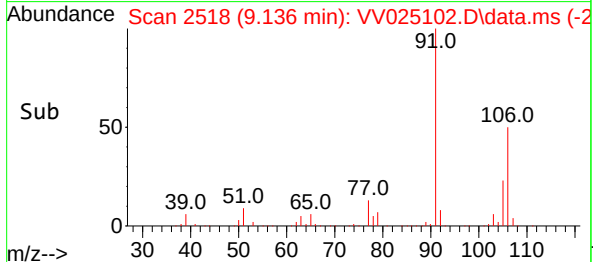
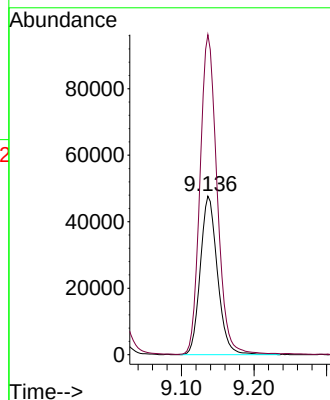
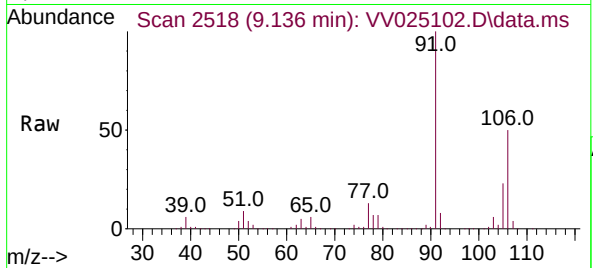




#53
m,p-xylene
Concen: 3.531 ug/L
RT: 9.136 min Scan# 2518
Delta R.T. -0.000 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

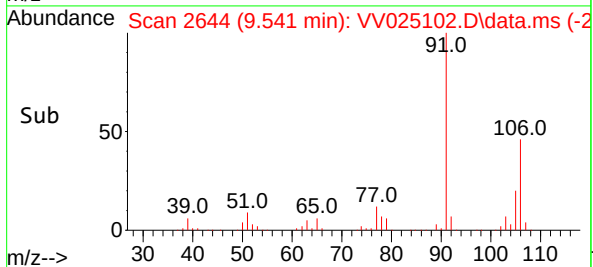
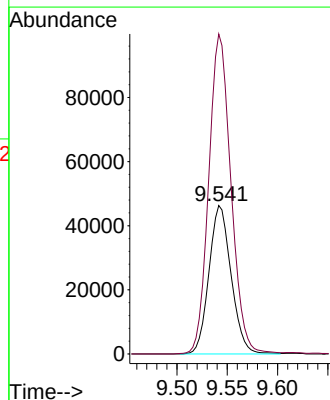
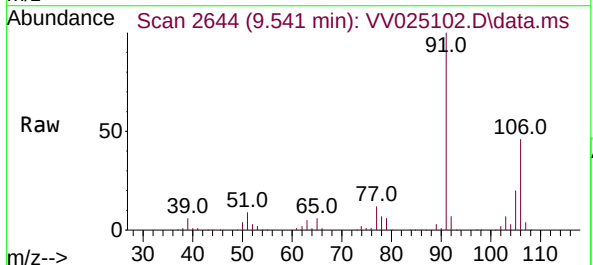
Instrument :
MSVOA_V
ClientSampleId :
C0QA8

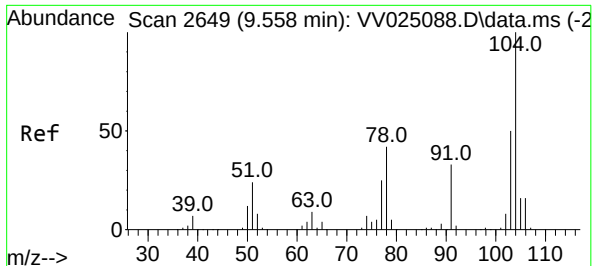
Tgt Ion:106 Resp: 78276
Ion Ratio Lower Upper
106 100
91 201.9 143.4 266.4



#54
o-xylene
Concen: 3.345 ug/L
RT: 9.541 min Scan# 2644
Delta R.T. -0.000 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion:106 Resp: 70902
Ion Ratio Lower Upper
106 100
91 215.5 146.7 272.5

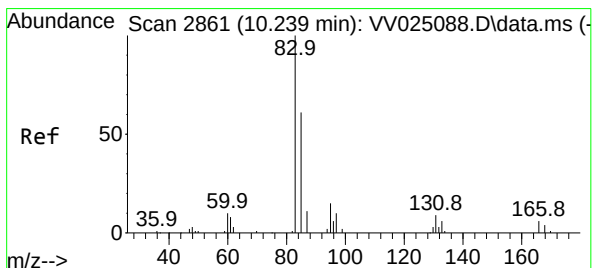
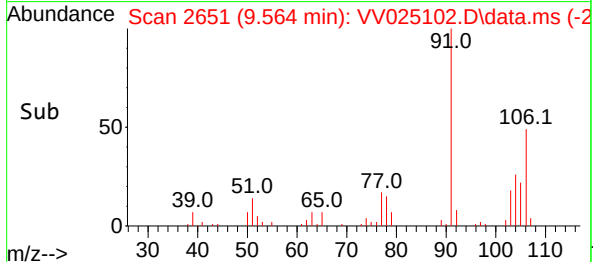
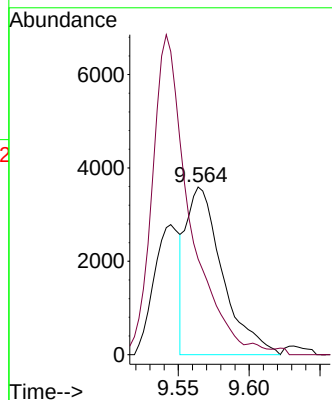
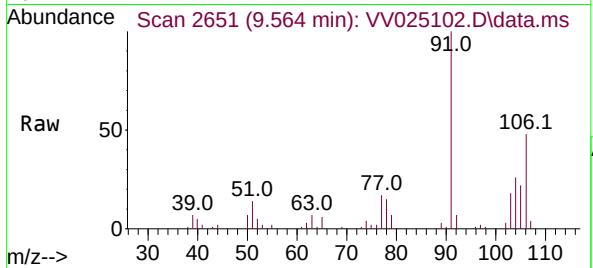




#55
Styrene
Concen: 0.185 ug/L
RT: 9.564 min Scan# 2651
Delta R.T. 0.006 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

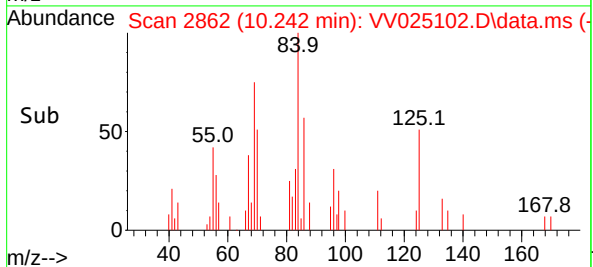
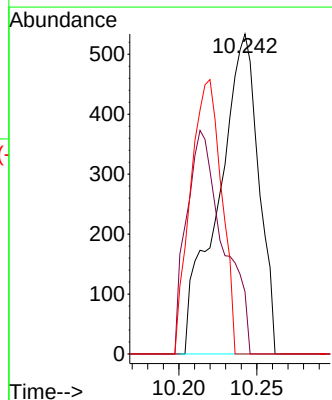
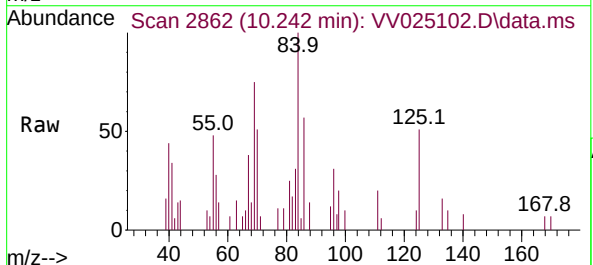
Instrument :
MSVOA_V
ClientSampleId :
C0QA8

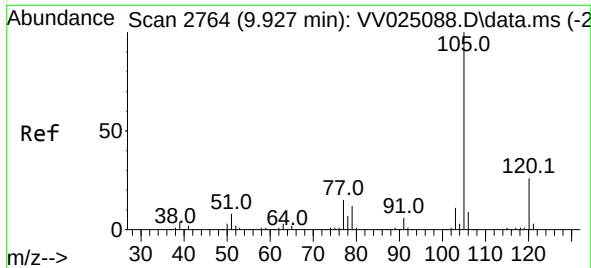
Tgt Ion:104 Resp: 6394
Ion Ratio Lower Upper
104 100
78 57.1 30.2 56.2#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.123 ug/L
RT: 10.242 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 83 Resp: 959
Ion Ratio Lower Upper
83 100
85 19.5 43.9 81.5#
131 0.0 7.5 11.3#

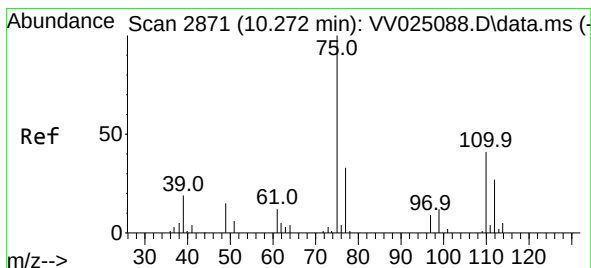
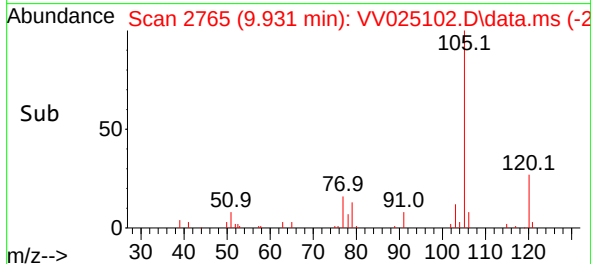
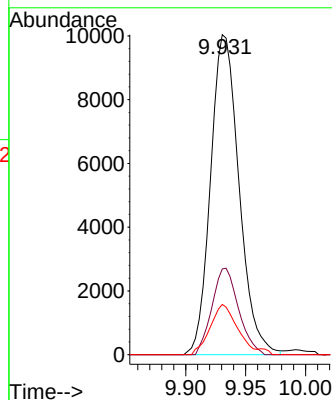
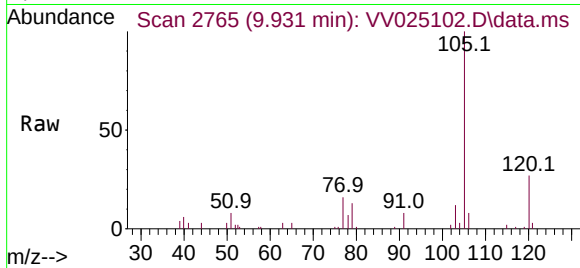




#60
Isopropylbenzene
Concen: 0.273 ug/L
RT: 9.931 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

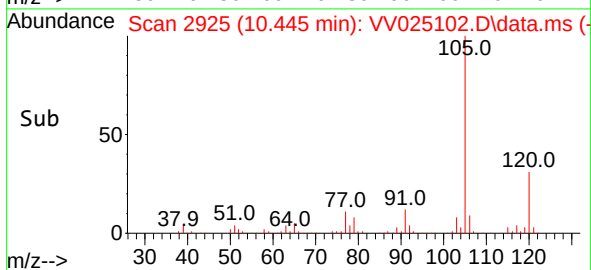
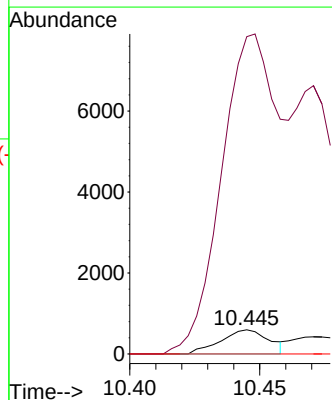
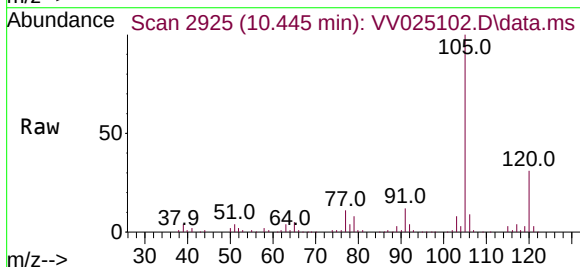
Instrument :
MSVOA_V
ClientSampleId :
C0QA8

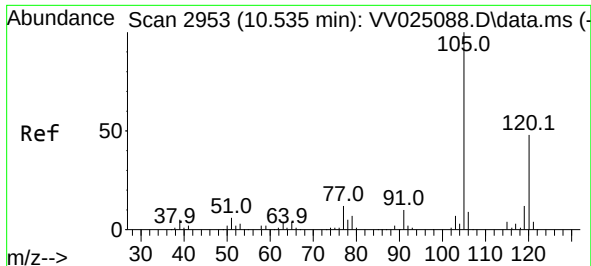
Tgt Ion:105 Resp: 16566
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#
77 15.5 12.2 18.2



#61
1,2,3-Trichloropropane
Concen: 0.114 ug/L
RT: 10.445 min Scan# 2925
Delta R.T. 0.173 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion: 75 Resp: 775
Ion Ratio Lower Upper
75 100
77 1618.3 25.7 38.5#
110 5.5 31.2 46.8#





#62

1,3,5-Trimethylbenzene

Concen: 7.319 ug/L

RT: 10.538 min Scan# 2953

Delta R.T. 0.003 min

Lab File: VV025102.D

Acq: 18 Mar 2022 16:55

Instrument :

MSVOA_V

ClientSampleId :

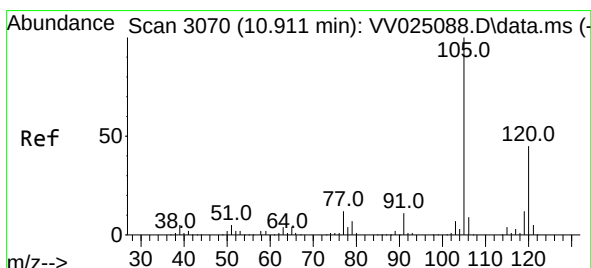
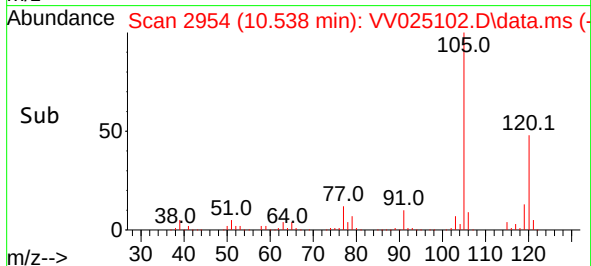
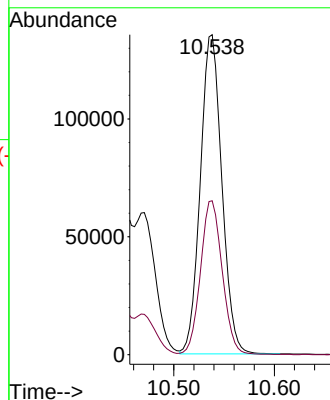
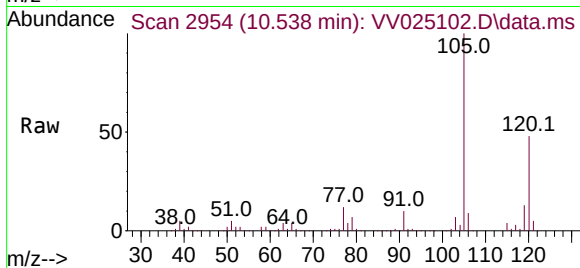
C0QA8

Tgt Ion:105 Resp: 201591

Ion Ratio Lower Upper

105 100

120 48.5 38.5 57.7



#63

1,2,4-Trimethylbenzene

Concen: 10.735 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. -0.000 min

Lab File: VV025102.D

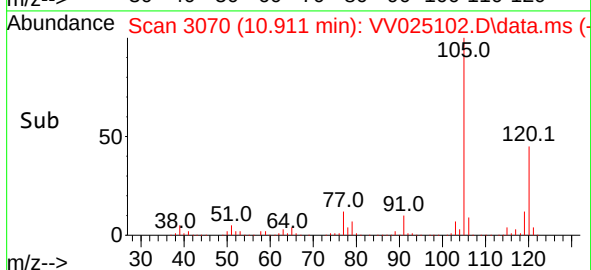
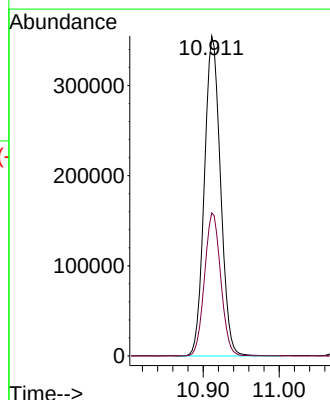
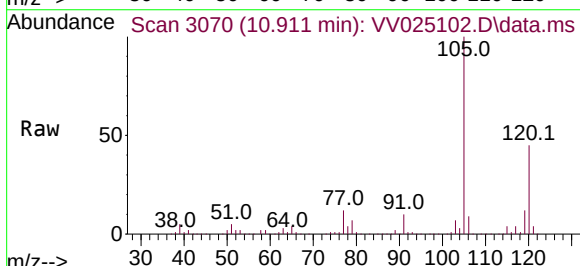
Acq: 18 Mar 2022 16:55

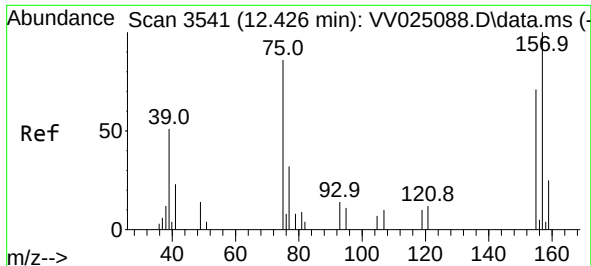
Tgt Ion:105 Resp: 523674

Ion Ratio Lower Upper

105 100

120 44.8 35.8 53.8

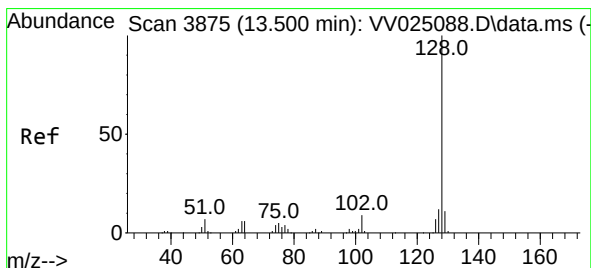
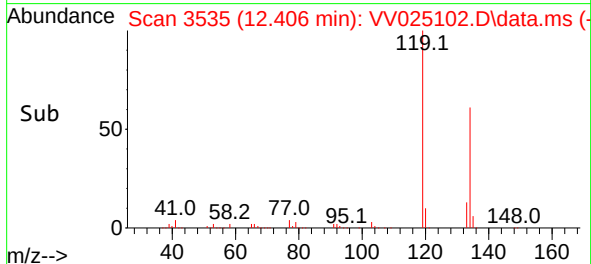
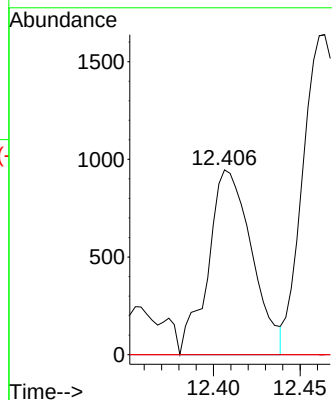
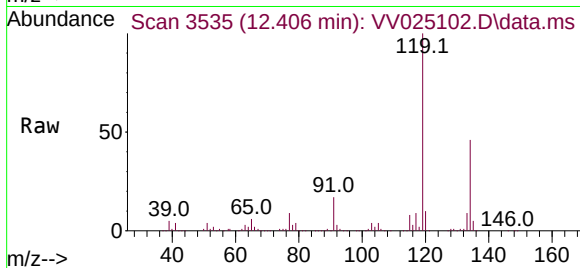




#68
1,2-Dibromo-3-chloropropane
Concen: 1.425 ug/L
RT: 12.406 min Scan# 311
Delta R.T. -0.019 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Instrument :
MSVOA_V
ClientSampleId :
C0QA8

Tgt Ion: 75 Resp: 1654
Ion Ratio Lower Upper
75 100
155 0.0 65.9 98.9#
157 0.0 89.7 134.5#



#71
Naphthalene
Concen: 368.777 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. -0.000 min
Lab File: VV025102.D
Acq: 18 Mar 2022 16:55

Tgt Ion:128 Resp: 8873873
Ion Ratio Lower Upper
128 100
129 11.8 8.5 12.7
127 13.5 9.8 14.8

