

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW021122\
 Data File : VW024600.D
 Acq On : 11 Feb 2022 13:41
 Operator : SY/MD
 Sample : N1476-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 12 03:43:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR020922WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Feb 12 03:41:27 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	121661	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	122260	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	62562	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	41524	4.072	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.400%
7) Chloroethane-d5	1.571	69	37549	4.355	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.111	63	70534	3.162	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.200%
20) 2-Butanone-d5	3.899	46	93147	55.020	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.040%
24) Chloroform-d	4.352	84	85437	4.760	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.200%
26) 1,2-Dichloroethane-d4	5.034	65	40771	5.006	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.200%
32) Benzene-d6	5.050	84	167935	4.841	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.800%
36) 1,2-Dichloropropane-d6	6.072	67	52310	4.848	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.000%
41) Toluene-d8	7.317	98	150673	4.657	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
43) trans-1,3-Dichloroprop...	7.622	79	19903	4.568	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.088	63	81258	52.936	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.880%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	32242	5.019	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	11.622	152	48742	4.833	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.600%
Target Compounds						
					Qvalue	
6) Bromomethane	1.526	94	444	0.043	ug/L	75
12) 1,1-Dichloroethene	2.121	96	4351	0.345	ug/L #	1
13) Acetone	2.195	43	5987	4.481	ug/L #	42
17) Methyl tert-butyl Ether	2.770	73	8389	0.323	ug/L #	88
19) 1,1-Dichloroethane	3.198	63	7078	0.331	ug/L	95
22) cis-1,2-Dichloroethene	3.915	96	31830	2.551	ug/L	93
25) Chloroform	4.381	83	7535	0.337	ug/L	99
27) 1,2-Dichloroethane	5.050	62	1107	0.090	ug/L #	73
29) 1,1,1-Trichloroethane	4.609	97	1488	0.074	ug/L #	83
33) Benzene	5.111	78	4824	0.101	ug/L	100
34) Trichloroethene	5.911	95	330647	25.165	ug/L	88
35) Methylcyclohexane	6.069	83	12599	0.580	ug/L #	18
37) 1,2-Dichloropropane	6.069	63	5867	0.507	ug/L #	84
42) Toluene	7.394	91	11524	0.222	ug/L	94
45) 1,1,2-Trichloroethane	7.972	97	2213	0.295	ug/L #	1
47) Tetrachloroethene	7.972	164	206063	23.640	ug/L	91
49) Dibromochloromethane	7.972	129	210723	23.283	ug/L #	11
52) Ethylbenzene	9.021	91	3941	0.068	ug/L	95
53) m,p-xylene	9.143	106	3509	0.160	ug/L	99

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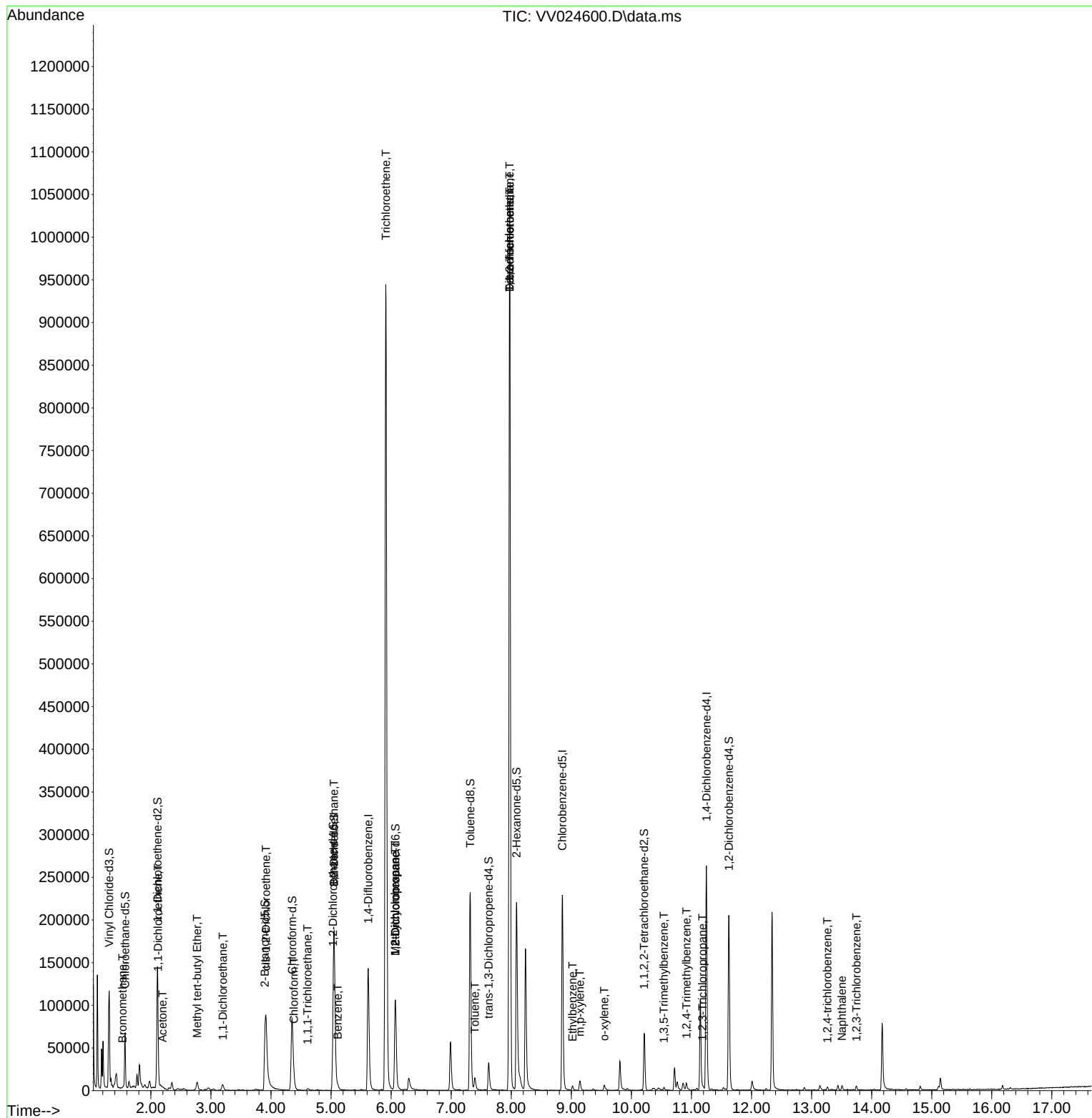
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.548	106	1642	0.078	ug/L	94
61) 1,2,3-Trichloropropane	11.185	75	364	0.059	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	1589	0.033	ug/L	98
63) 1,2,4-Trimethylbenzene	10.918	105	4366	0.090	ug/L	92
70) 1,2,4-trichlorobenzene	13.265	180	1273	0.096	ug/L	89
71) Naphthalene	13.506	128	4613	0.192	ug/L	96
72) 1,2,3-Trichlorobenzene	13.747	180	1244	0.111	ug/L #	88

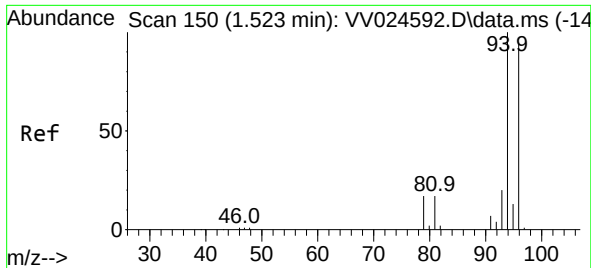
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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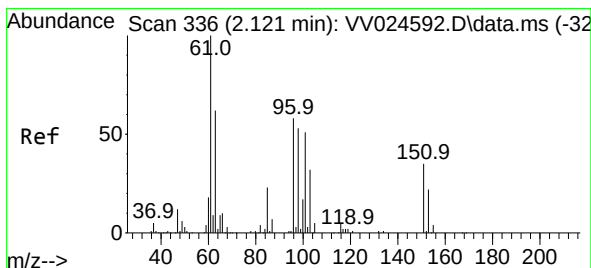
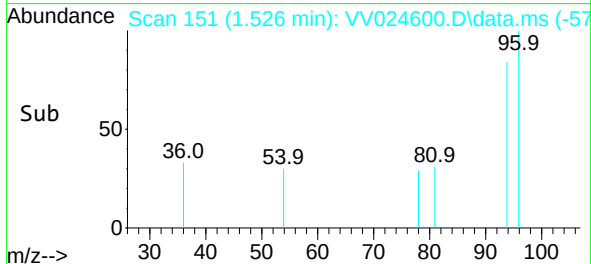
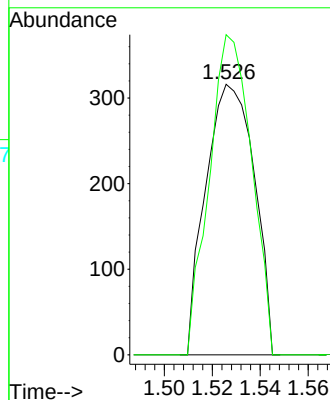
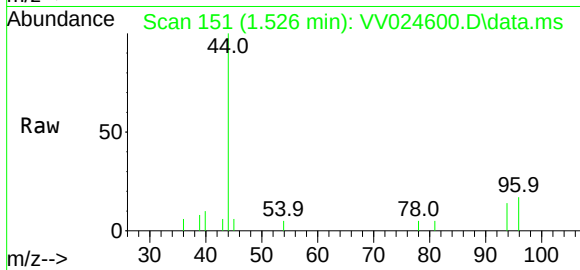




#6
Bromomethane
Concen: 0.043 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

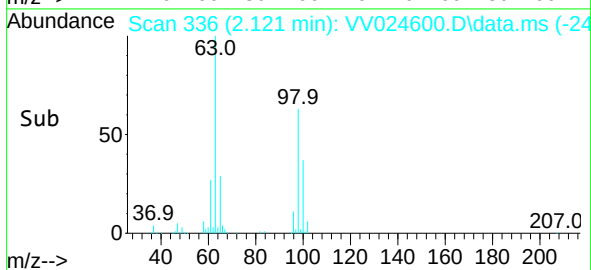
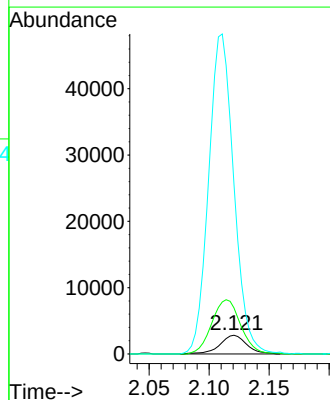
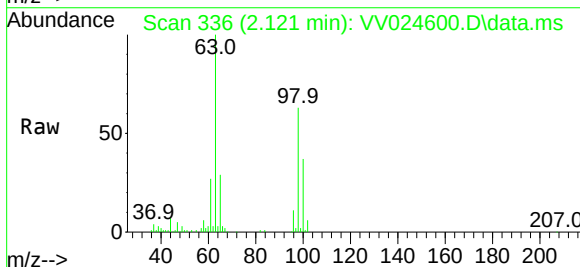
Instrument :
MSVOA_V
ClientSampleId :

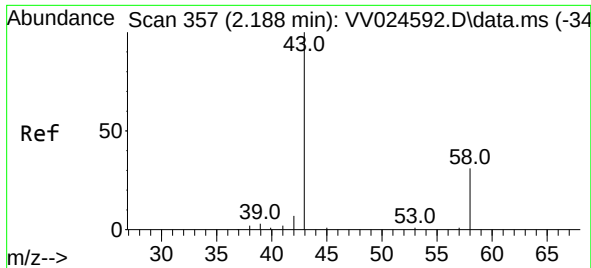
Tgt Ion: 94 Resp: 444
Ion Ratio Lower Upper
94 100
96 118.4 66.2 123.0



#12
1,1-Dichloroethene
Concen: 0.345 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.000 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

Tgt Ion: 96 Resp: 4351
Ion Ratio Lower Upper
96 100
61 246.7 116.1 215.5#
63 910.1 79.4 147.4#

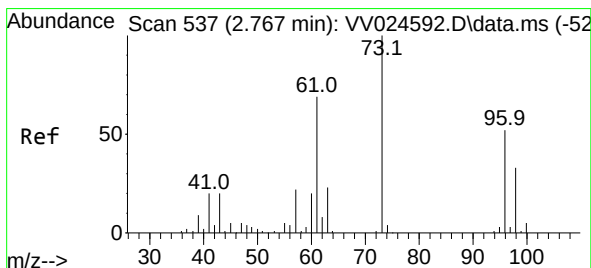
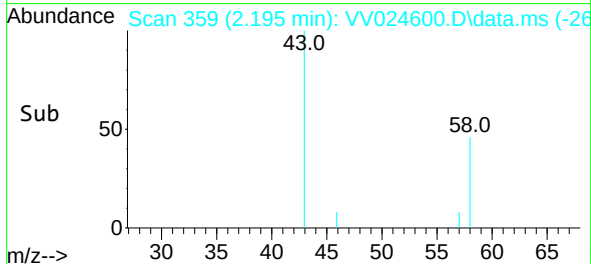
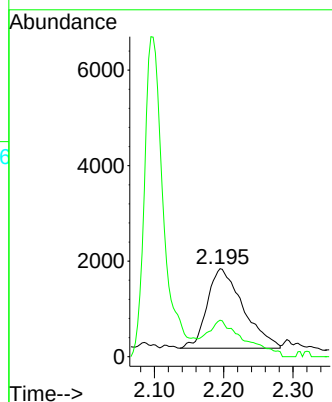
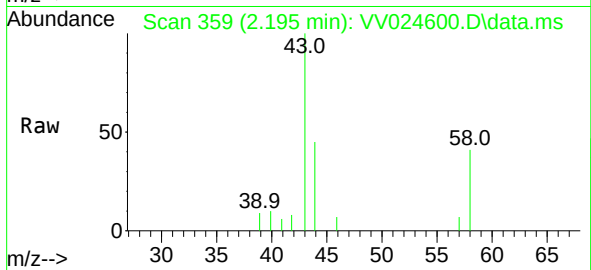




#13
Acetone
Concen: 4.481 ug/L
RT: 2.195 min Scan# 357
Delta R.T. 0.006 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

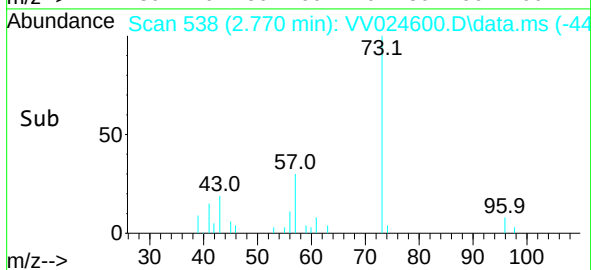
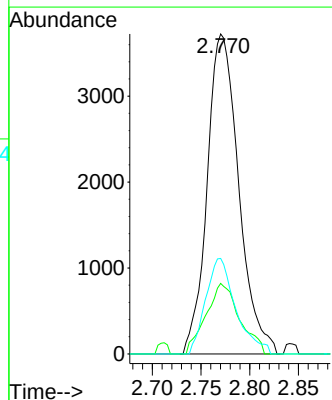
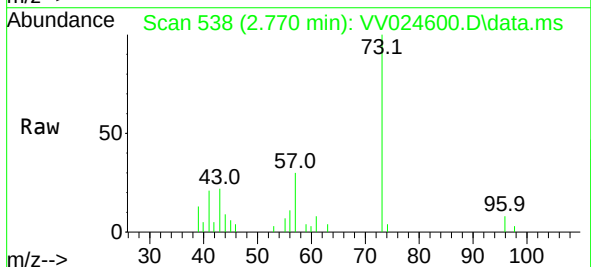
Instrument :
MSVOA_V
ClientSampleId :

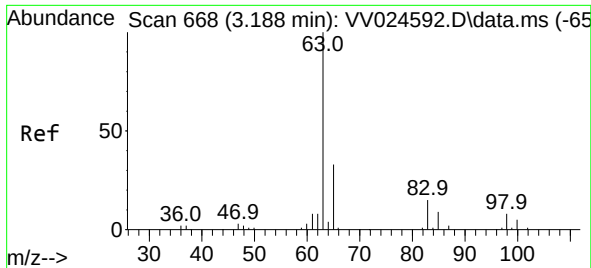
Tgt Ion: 43 Resp: 5987
Ion Ratio Lower Upper
43 100
58 47.8 0.0 41.4#



#17
Methyl tert-butyl Ether
Concen: 0.323 ug/L
RT: 2.770 min Scan# 538
Delta R.T. 0.003 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

Tgt Ion: 73 Resp: 8389
Ion Ratio Lower Upper
73 100
43 23.5 15.5 23.3#
57 28.5 17.1 25.7#

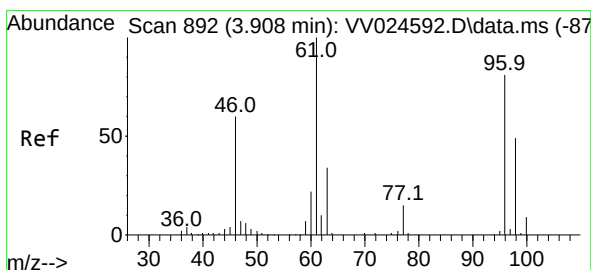
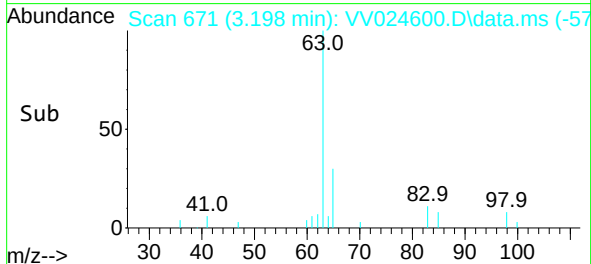
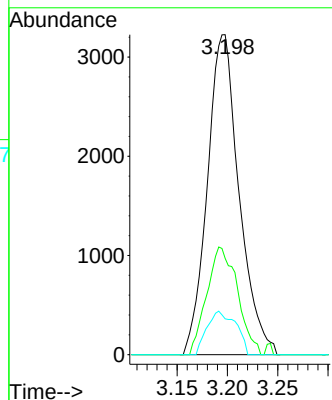
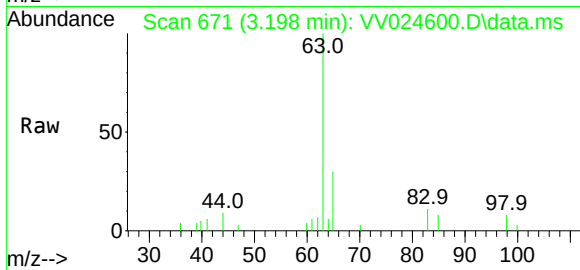




#19
1,1-Dichloroethane
Concen: 0.331 ug/L
RT: 3.198 min Scan# 61
Delta R.T. 0.010 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

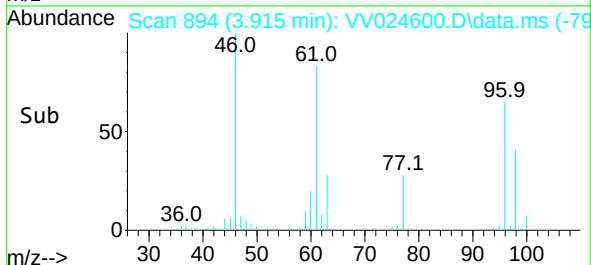
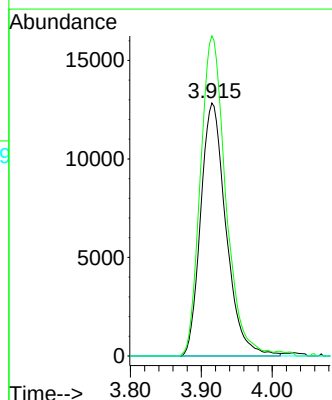
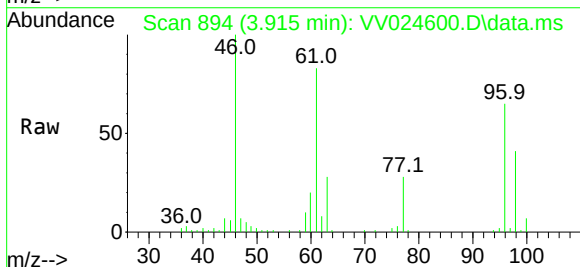
Instrument :
MSVOA_V
ClientSampleId :

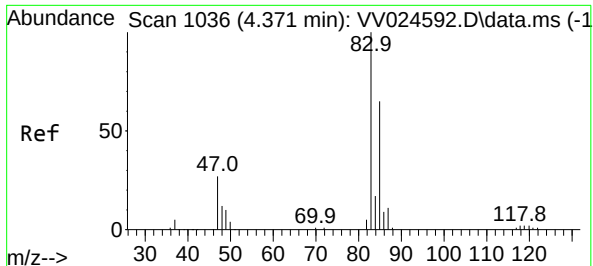
Tgt Ion: 63 Resp: 7078
Ion Ratio Lower Upper
63 100
65 30.1 22.3 41.3
83 11.2 10.7 19.9



#22
cis-1,2-Dichloroethene
Concen: 2.551 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.006 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

Tgt Ion: 96 Resp: 31830
Ion Ratio Lower Upper
96 100
61 126.5 83.4 154.8
68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.337 ug/L

RT: 4.381 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

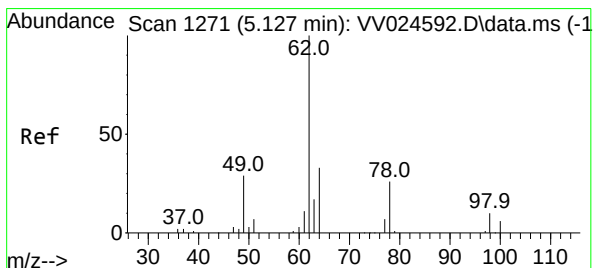
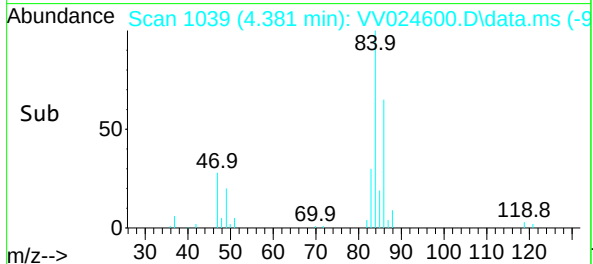
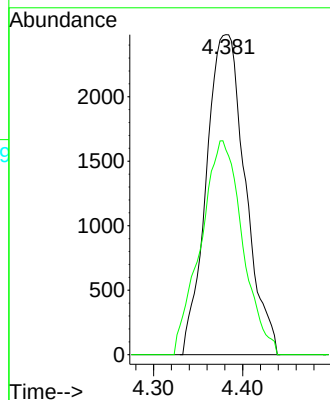
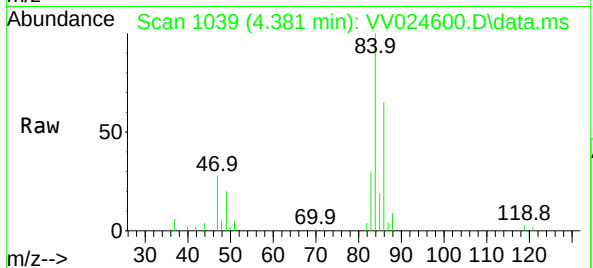
ClientSampleId :

Tgt Ion: 83 Resp: 7535

Ion Ratio Lower Upper

83 100

85 64.1 45.2 84.0



#27

1,2-Dichloroethane

Concen: 0.090 ug/L

RT: 5.050 min Scan# 1247

Delta R.T. -0.077 min

Lab File: VV024600.D

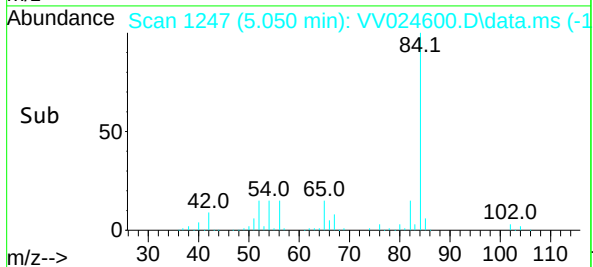
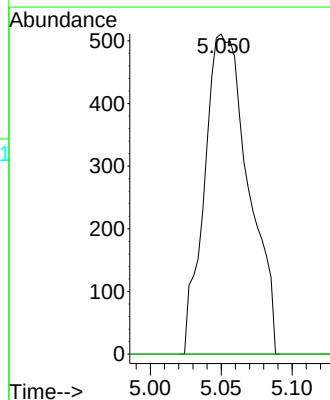
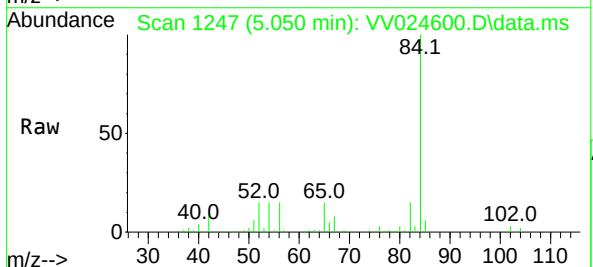
Acq: 11 Feb 2022 13:41

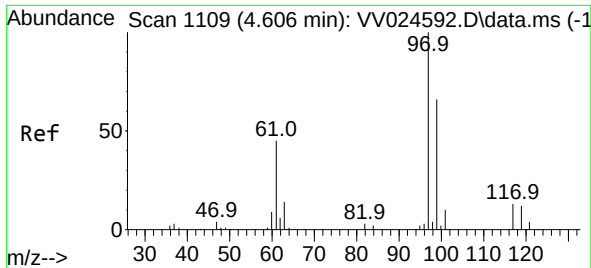
Tgt Ion: 62 Resp: 1107

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#





#29

1,1,1-Trichloroethane

Concen: 0.074 ug/L

RT: 4.609 min Scan# 1109

Delta R.T. 0.003 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

ClientSampleId :

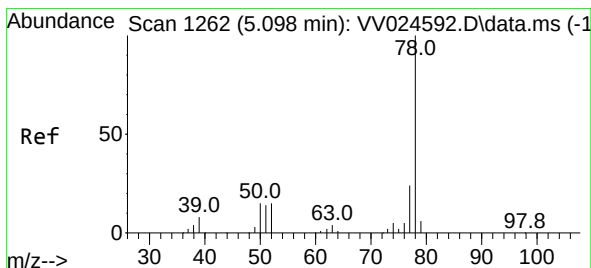
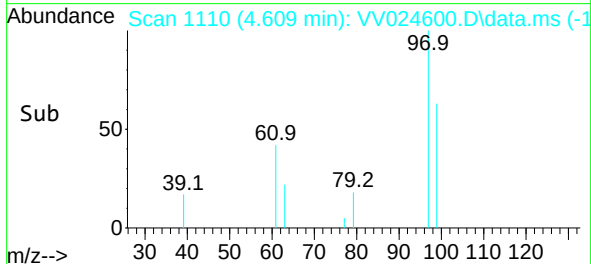
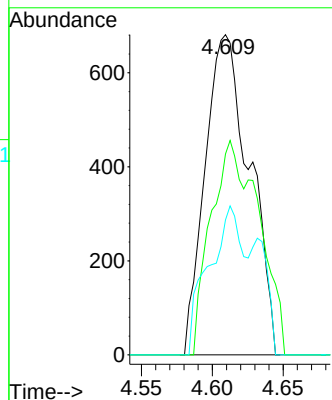
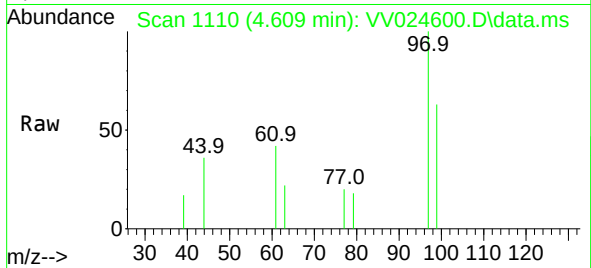
Tgt Ion: 97 Resp: 1488

Ion Ratio Lower Upper

97 100

99 46.9 51.9 77.9#

61 36.6 33.2 49.8



#33

Benzene

Concen: 0.101 ug/L

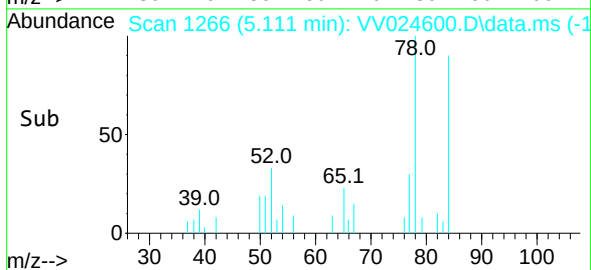
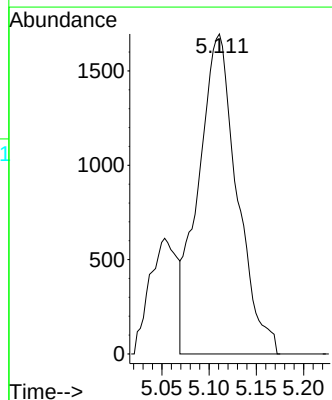
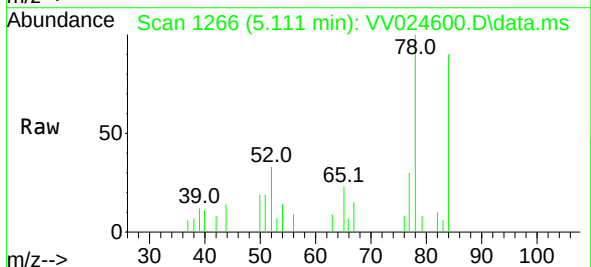
RT: 5.111 min Scan# 1266

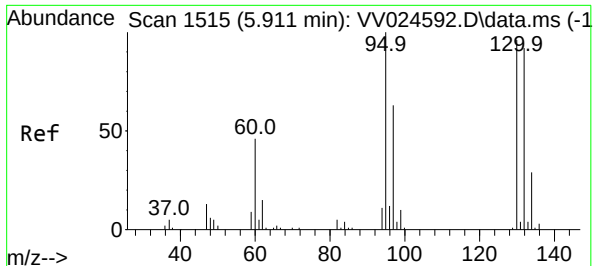
Delta R.T. 0.013 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Tgt Ion: 78 Resp: 4824

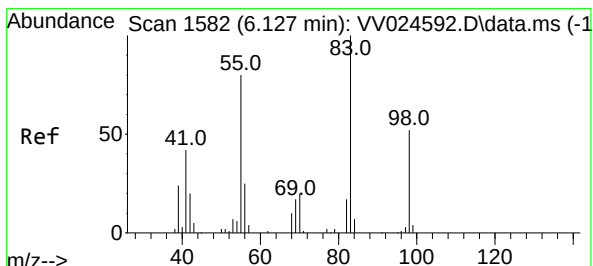
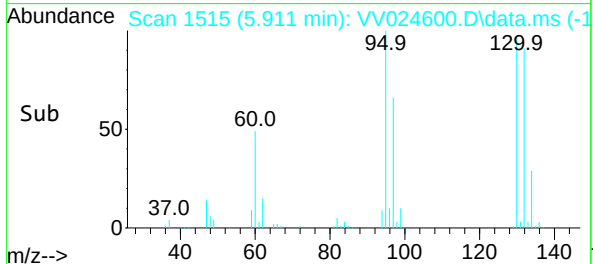
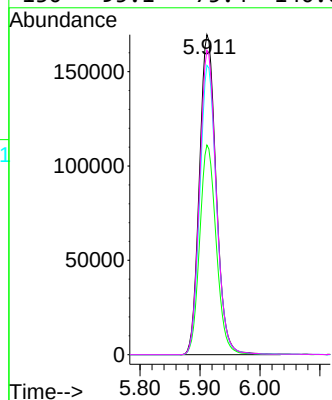
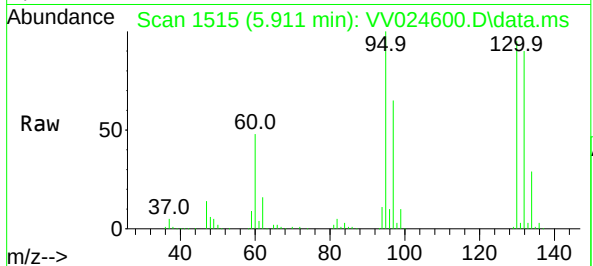




#34
Trichloroethene
Concen: 25.165 ug/L
RT: 5.911 min Scan# 1515
Delta R.T. 0.000 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

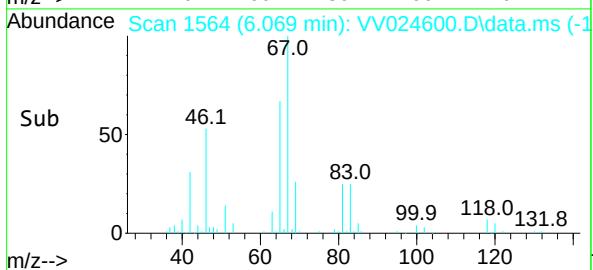
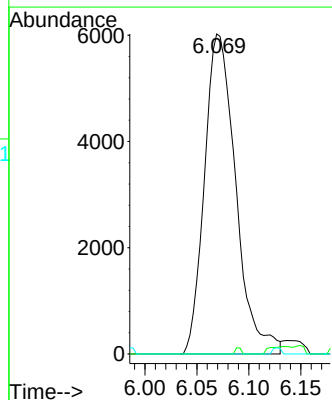
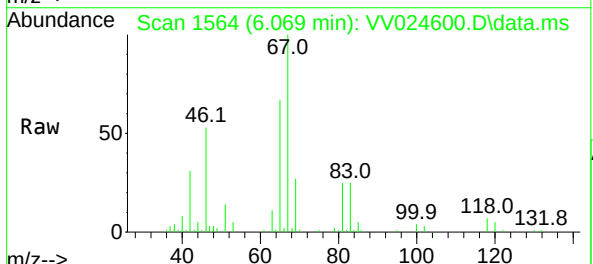
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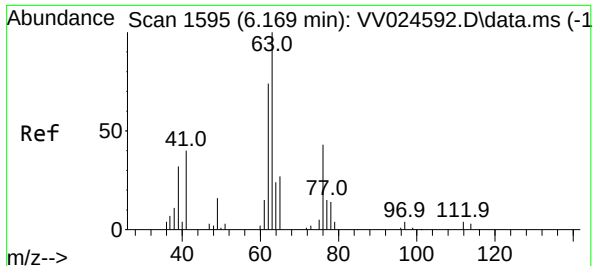
Tgt Ion: 95 Resp: 330647
Ion Ratio Lower Upper
95 100
97 65.5 45.2 84.0
132 90.4 76.1 141.3
130 95.1 75.4 140.0



#35
Methylcyclohexane
Concen: 0.580 ug/L
RT: 6.069 min Scan# 1564
Delta R.T. -0.058 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

Tgt Ion: 83 Resp: 12599
Ion Ratio Lower Upper
83 100
55 0.3 60.2 90.2#
98 0.0 41.0 61.4#





#37

1,2-Dichloropropane

Concen: 0.507 ug/L

RT: 6.069 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

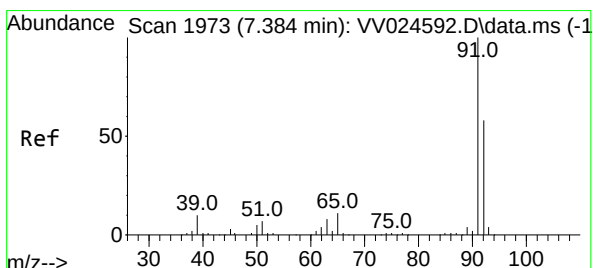
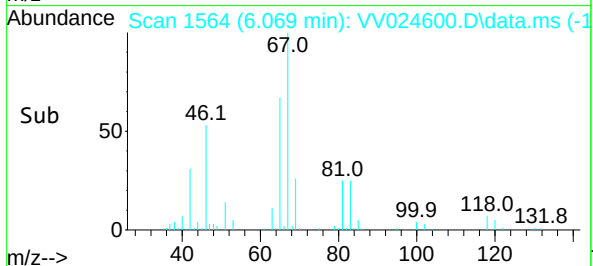
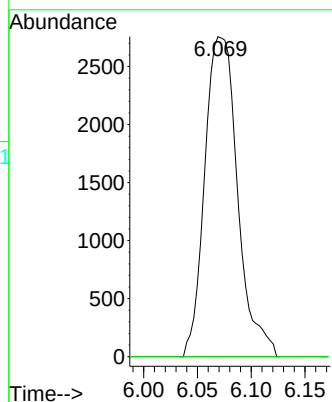
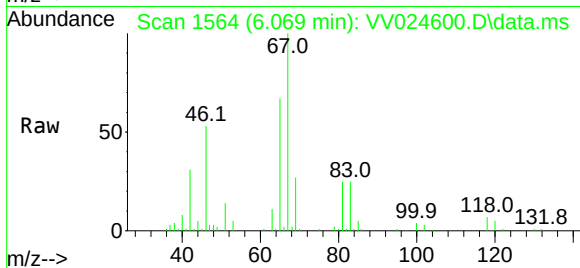
ClientSampleId :

Tgt Ion: 63 Resp: 5867

Ion Ratio Lower Upper

63 100

112 0.0 4.3 6.5#



#42

Toluene

Concen: 0.222 ug/L

RT: 7.394 min Scan# 1976

Delta R.T. 0.010 min

Lab File: VV024600.D

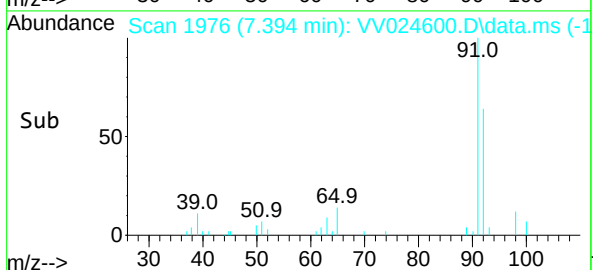
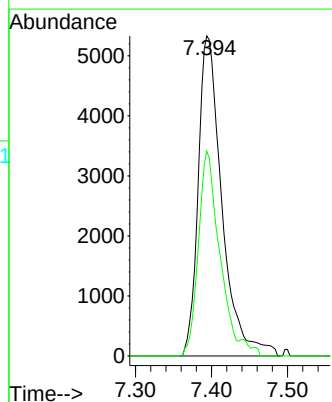
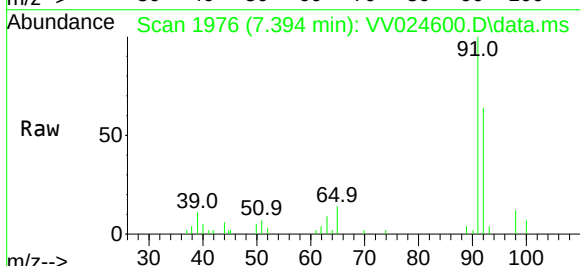
Acq: 11 Feb 2022 13:41

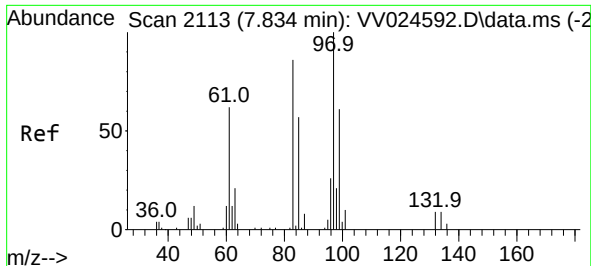
Tgt Ion: 91 Resp: 11524

Ion Ratio Lower Upper

91 100

92 63.9 41.5 77.1





#45

1,1,2-Trichloroethane

Concen: 0.295 ug/L

RT: 7.972 min Scan# 2113

Delta R.T. 0.138 min

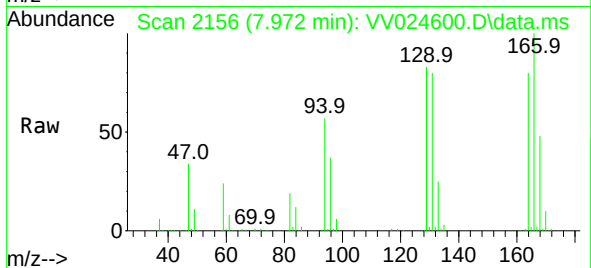
Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 97 Resp: 2213

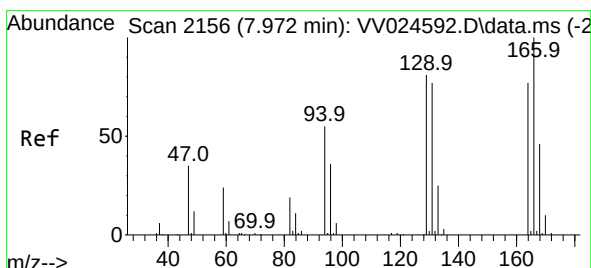
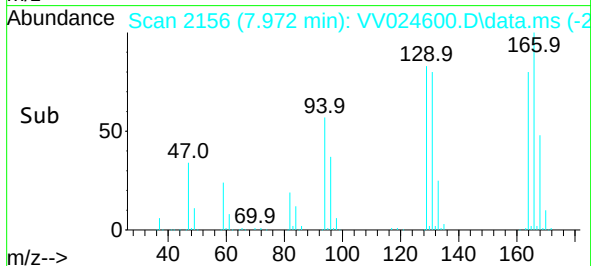
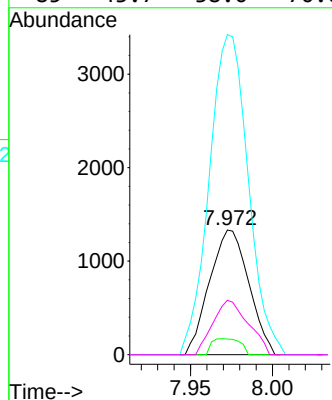
Ion Ratio Lower Upper

97 100

99 12.5 43.1 80.1#

83 256.7 57.9 107.5#

85 43.7 38.0 70.6



#47

Tetrachloroethene

Concen: 23.640 ug/L

RT: 7.972 min Scan# 2156

Delta R.T. 0.000 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Tgt Ion:164 Resp: 206063

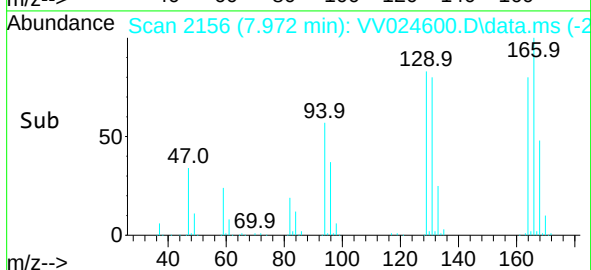
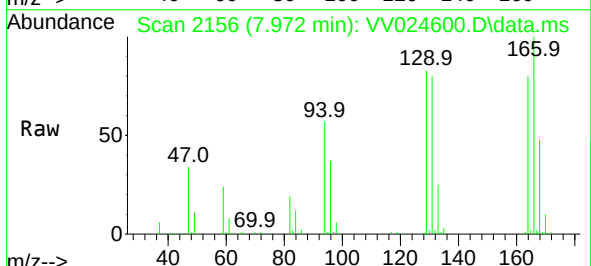
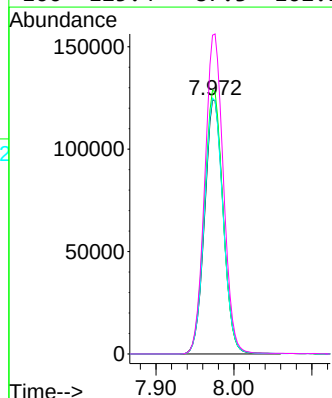
Ion Ratio Lower Upper

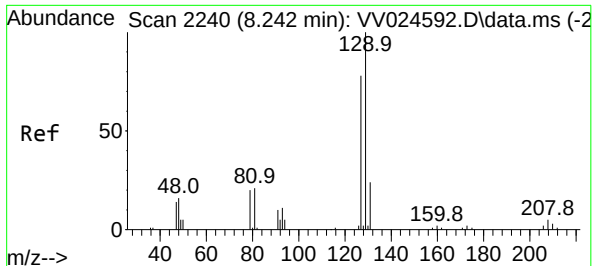
164 100

129 103.8 62.6 116.2

131 100.6 61.0 113.4

166 125.4 87.3 162.1





#49

Dibromochloromethane

Concen: 23.283 ug/L

RT: 7.972 min Scan# 2156

Delta R.T. -0.270 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

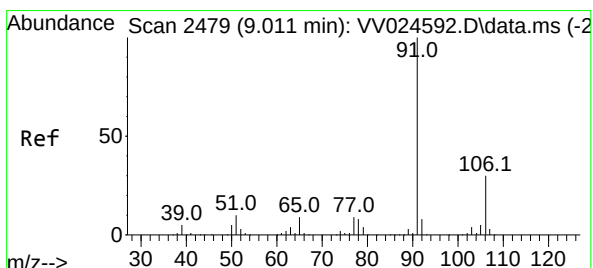
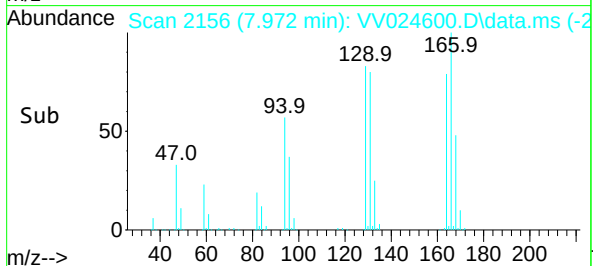
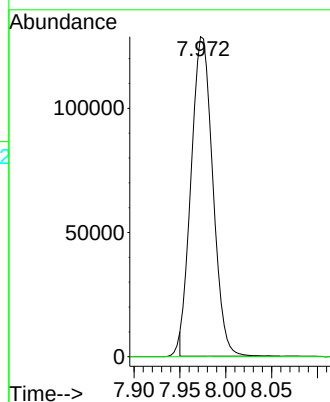
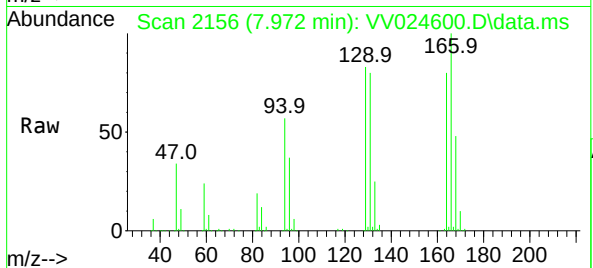
ClientSampleId :

Tgt Ion:129 Resp: 210723

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#



#52

Ethylbenzene

Concen: 0.068 ug/L

RT: 9.021 min Scan# 2482

Delta R.T. 0.010 min

Lab File: VV024600.D

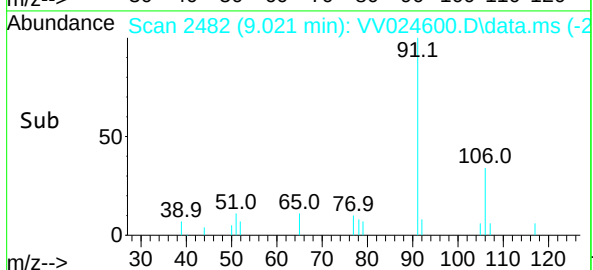
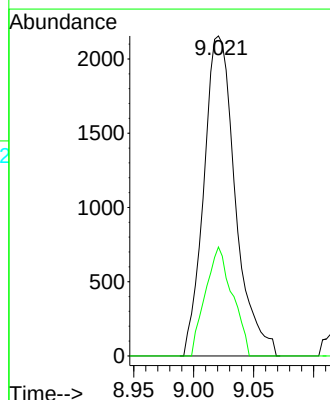
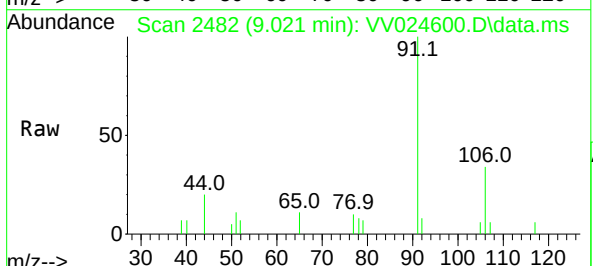
Acq: 11 Feb 2022 13:41

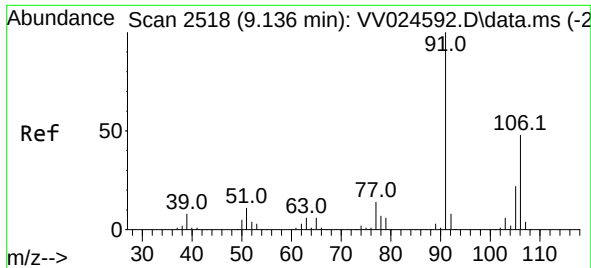
Tgt Ion: 91 Resp: 3941

Ion Ratio Lower Upper

91 100

106 34.1 22.0 41.0

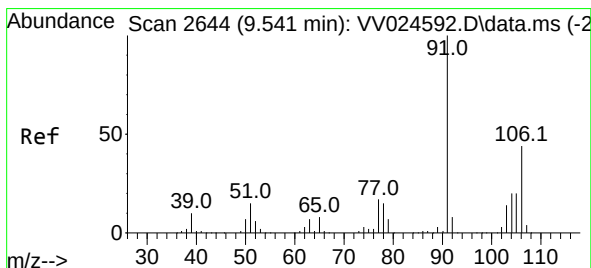
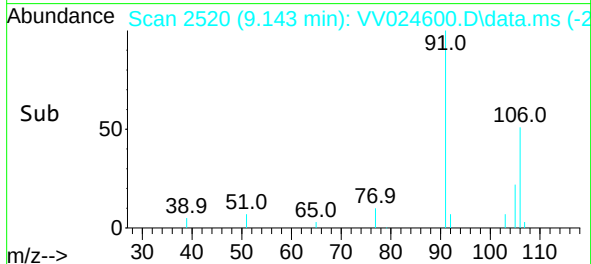
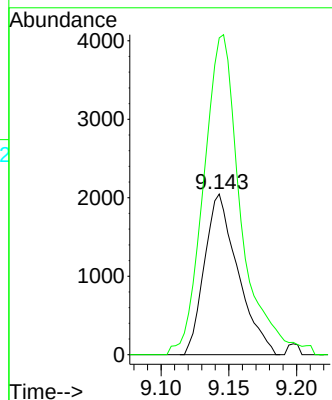
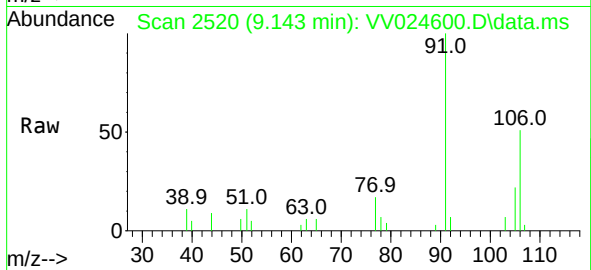




#53
m,p-xylene
Concen: 0.160 ug/L
RT: 9.143 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

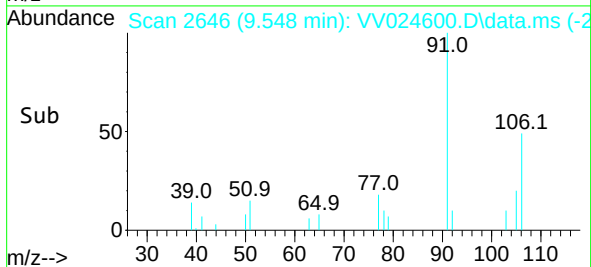
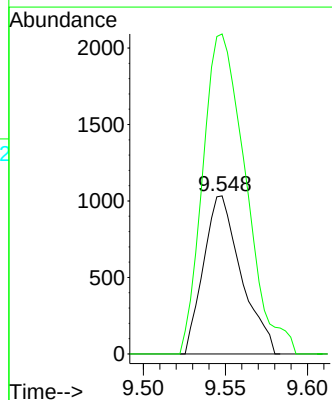
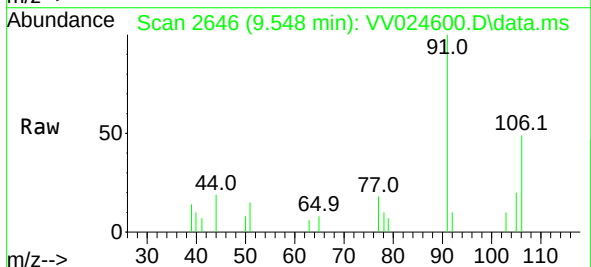
Instrument :
MSVOA_V
ClientSampleId :

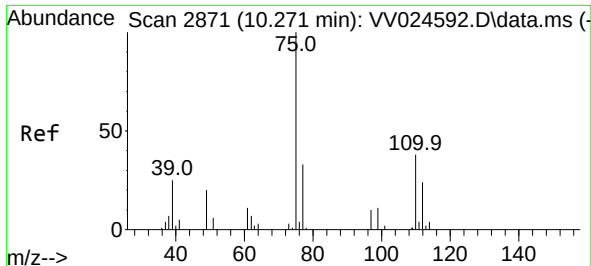
Tgt Ion:106 Resp: 3509
Ion Ratio Lower Upper
106 100
91 197.2 139.5 259.1



#54
o-xylene
Concen: 0.078 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. 0.006 min
Lab File: VV024600.D
Acq: 11 Feb 2022 13:41

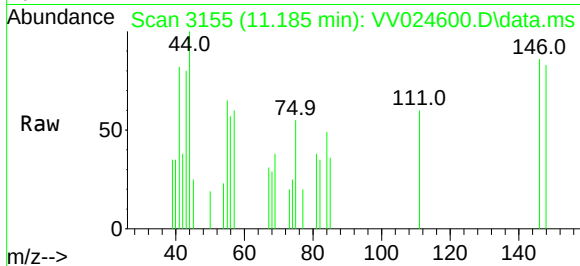
Tgt Ion:106 Resp: 1642
Ion Ratio Lower Upper
106 100
91 202.5 147.9 274.7



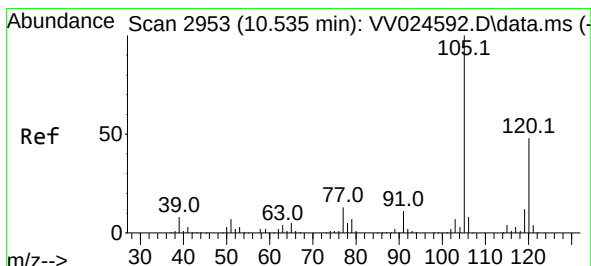
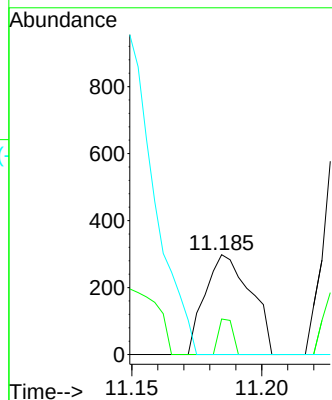
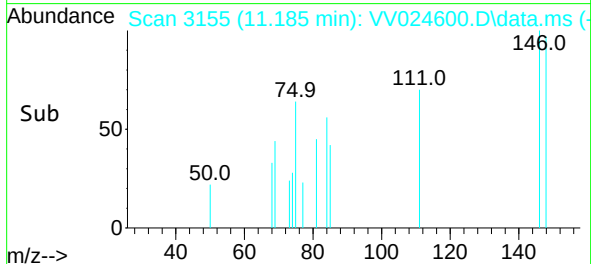


#61
 1,2,3-Trichloropropane
 Concen: 0.059 ug/L
 RT: 11.185 min Scan# 3155
 Delta R.T. 0.913 min
 Lab File: VV024600.D
 Acq: 11 Feb 2022 13:41

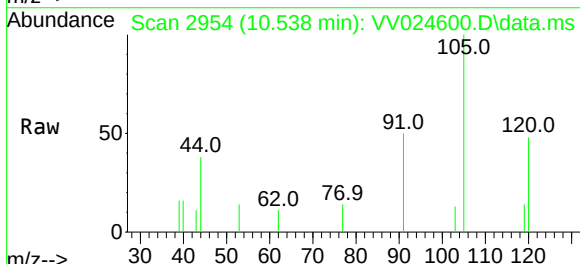
Instrument :
 MSVOA_V
 ClientSampleId :



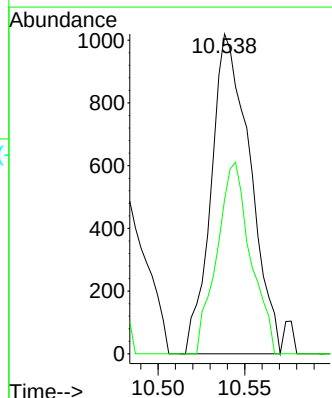
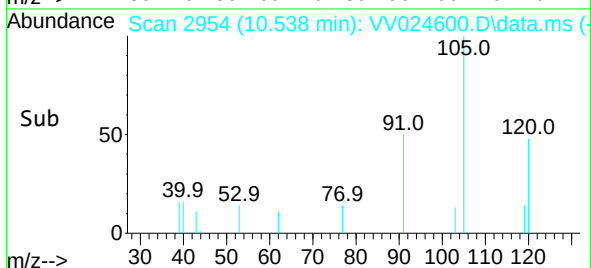
Tgt Ion: 75 Resp: 364
 Ion Ratio Lower Upper
 75 100
 77 78.6 26.4 39.6#
 110 326.9 34.2 51.2#

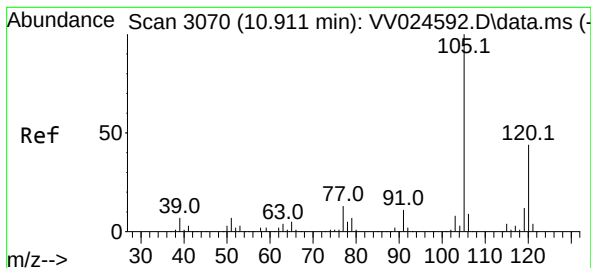


#62
 1,3,5-Trimethylbenzene
 Concen: 0.033 ug/L
 RT: 10.538 min Scan# 2954
 Delta R.T. 0.003 min
 Lab File: VV024600.D
 Acq: 11 Feb 2022 13:41



Tgt Ion: 105 Resp: 1589
 Ion Ratio Lower Upper
 105 100
 120 51.8 40.1 60.1





#63

1,2,4-Trimethylbenzene

Concen: 0.090 ug/L

RT: 10.918 min Scan# 3070

Delta R.T. 0.006 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

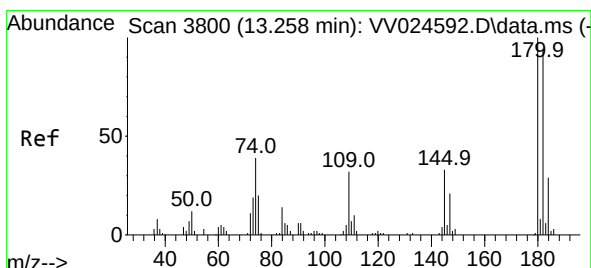
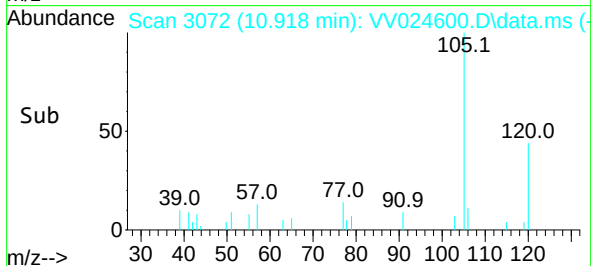
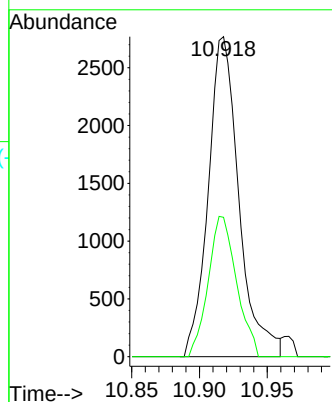
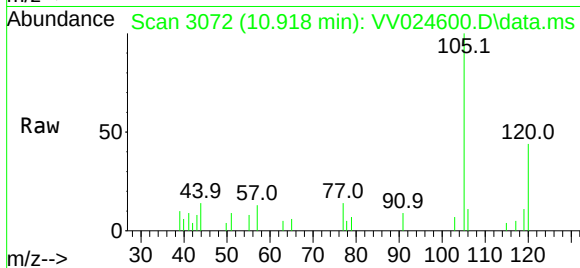
ClientSampleId :

Tgt Ion:105 Resp: 4366

Ion Ratio Lower Upper

105 100

120 40.3 36.7 55.1



#70

1,2,4-trichlorobenzene

Concen: 0.096 ug/L

RT: 13.265 min Scan# 3802

Delta R.T. 0.006 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

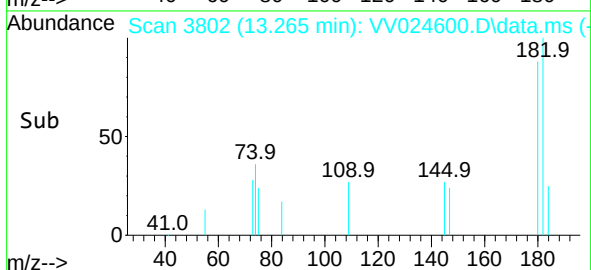
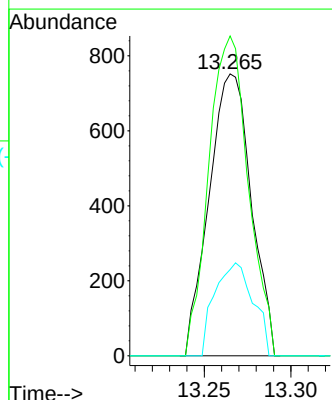
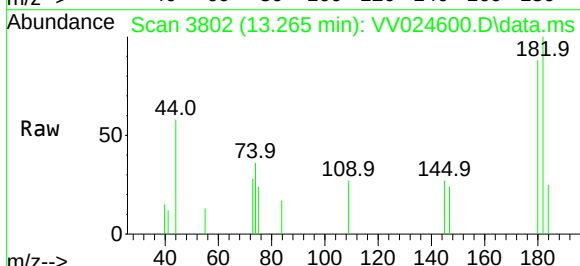
Tgt Ion:180 Resp: 1273

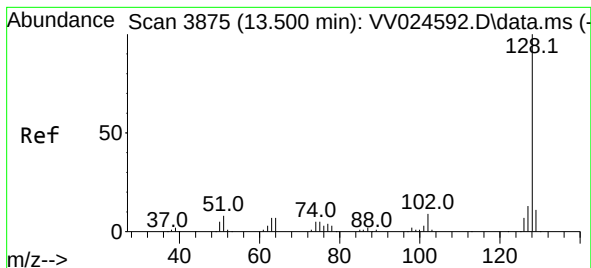
Ion Ratio Lower Upper

180 100

182 106.5 74.4 111.6

145 30.0 23.3 34.9





#71

Naphthalene

Concen: 0.192 ug/L

RT: 13.506 min Scan# 3875

Delta R.T. 0.006 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Instrument :

MSVOA_V

ClientSampleId :

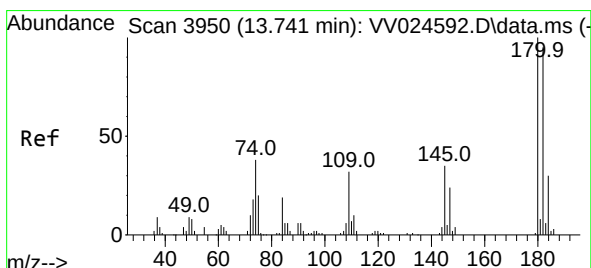
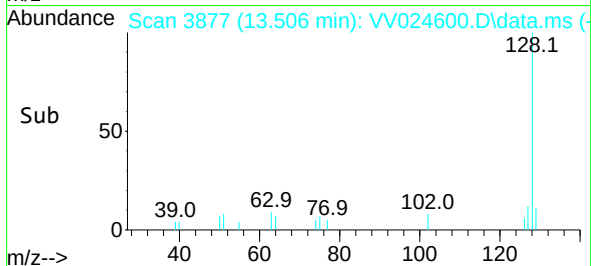
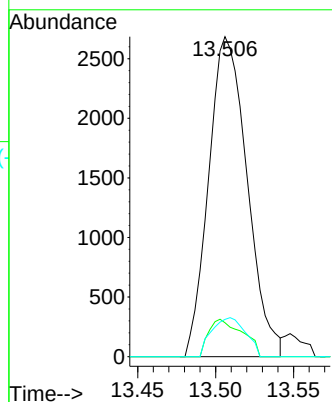
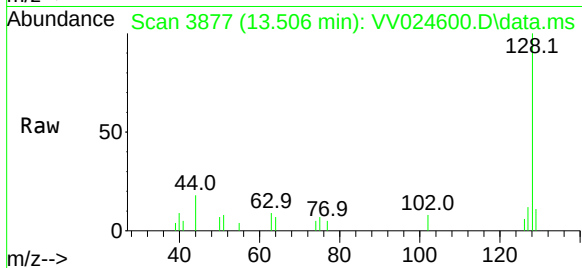
Tgt Ion:128 Resp: 4613

Ion Ratio Lower Upper

128 100

129 10.3 9.0 13.4

127 10.8 10.2 15.4



#72

1,2,3-Trichlorobenzene

Concen: 0.111 ug/L

RT: 13.747 min Scan# 3952

Delta R.T. 0.006 min

Lab File: VV024600.D

Acq: 11 Feb 2022 13:41

Tgt Ion:180 Resp: 1244

Ion Ratio Lower Upper

180 100

182 106.1 76.8 115.2

145 41.1 25.8 38.6#

