

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U061022\
 Data File : U061022.D
 Acq On : 11 Jun 2022 06:23
 Operator : SY/MD
 Sample : N3249-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX4

Quant Time: Jun 11 07:57:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM061022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 11 04:33:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	234692	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	231436	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	122027	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	102448	70.858	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	= 141.720%#		
7) Chloroethane-d5	1.903	69	54971	51.783	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	= 103.560%		
11) 1,1-Dichloroethene-d2	2.568	63	166843	61.155	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 122.320%		
21) 2-Butanone-d5	4.633	46	171039	107.899	ug/L	0.01
Spiked Amount 100.000	Range 40	- 130	Recovery	= 107.900%		
24) Chloroform-d	5.063	84	169014	54.798	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 109.600%		
26) 1,2-Dichloroethane-d4	5.700	65	116537	58.321	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 116.640%		
32) Benzene-d6	5.726	84	320461	55.841	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 111.680%		
36) 1,2-Dichloropropane-d6	6.690	67	109602	56.811	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	= 113.620%		
41) Toluene-d8	7.896	98	274425	54.222	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 108.440%		
43) trans-1,3-Dichloroprop...	8.179	79	40563	44.691	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 89.380%		
47) 2-Hexanone-d5	8.632	63	97715	96.774	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	= 96.770%		
56) 1,1,2,2-Tetrachloroeth...	10.754	84	174823	54.255	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	= 108.500%		
66) 1,2-Dichlorobenzene-d4	12.192	152	125205	58.970	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 117.940%		
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	4306318	2080.858	ug/L	99
8) Chloroethane	1.925	64	125823	108.856	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	1155	0.699	ug/L #	19
12) 1,1-Dichloroethene	2.578	96	117775	81.377	ug/L	85
13) Acetone	2.626	43	6706	5.376	ug/L	99
16) Methylene chloride	3.041	84	17670	9.376	ug/L	96
17) trans-1,2-Dichloroethene	3.350	96	264873	166.449	ug/L	99
19) 1,1-Dichloroethane	3.870	63	17025636	4966.358	ug/L	99
20) cis-1,2-Dichloroethene	4.668	96	14701593	7593.797	ug/L	99
22) 2-Butanone	4.713	43	2707	1.412	ug/L #	48
27) 1,2-Dichloroethane	5.793	62	78480	26.984	ug/L	100
29) Cyclohexane	5.391	56	2538	0.980	ug/L #	65
30) 1,1,1-Trichloroethane	5.314	97	385379	119.403	ug/L	99
31) Carbon tetrachloride	5.520	117	3370	1.194	ug/L	98
33) Benzene	5.771	78	89564	11.945	ug/L	100
34) Trichloroethene	6.542	95	633729	335.306	ug/L	99
35) Methylcyclohexane	6.758	83	2835	1.075	ug/L	90
39) cis-1,3-Dichloropropene	7.568	75	2649	0.851	ug/L	85
42) Toluene	7.970	91	133490	17.225	ug/L	100

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

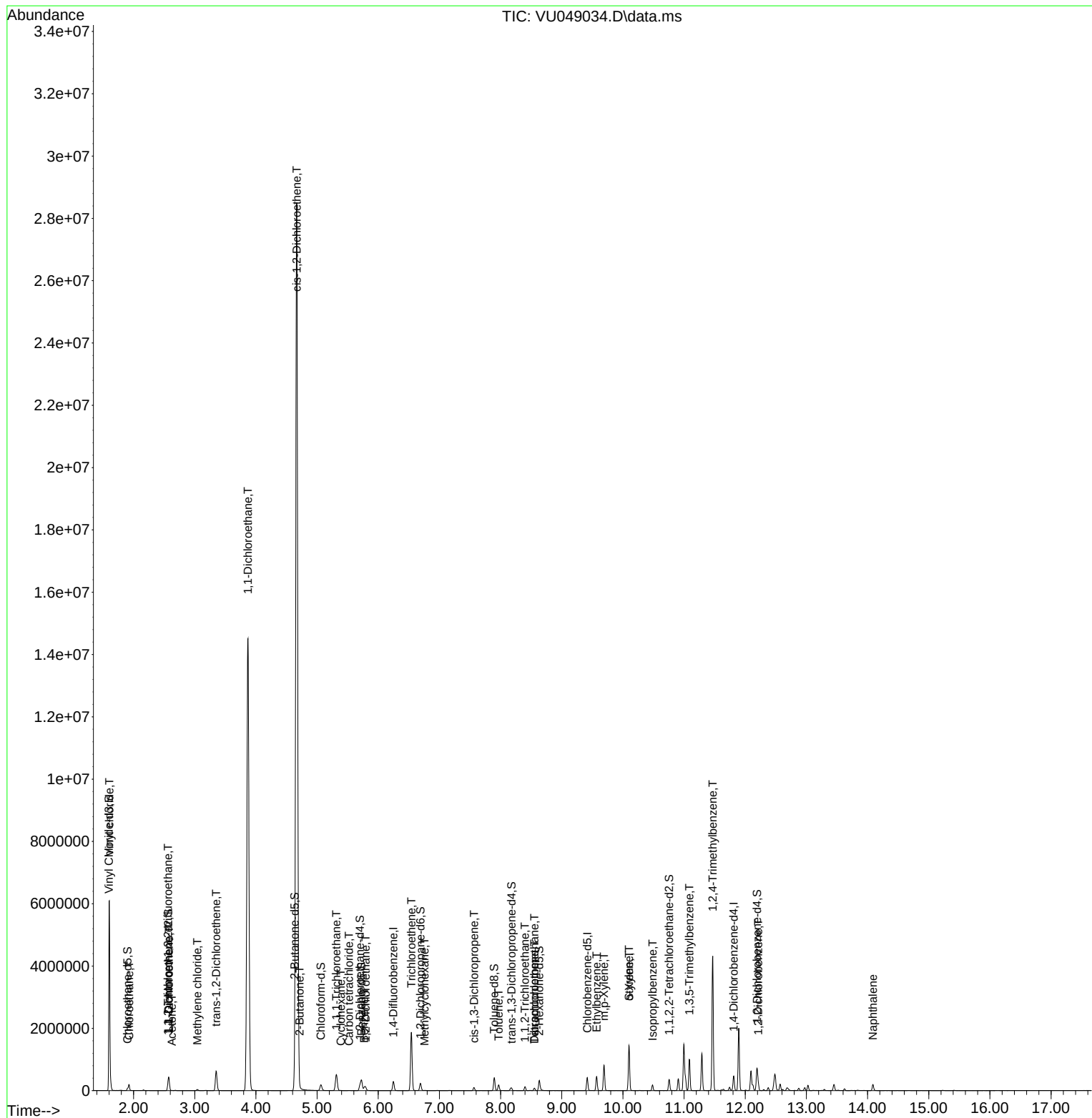
45) 1,1,2-Trichloroethane	8.398	97	38666	18.872	ug/L	98
46) Tetrachloroethene	8.552	164	17496	11.940	ug/L	97
49) Dibromochloromethane	8.552	129	18038	7.907	ug/L #	11
52) Ethylbenzene	9.571	91	309999	36.790	ug/L	98
53) m,p-Xylene	9.690	106	229876	69.470	ug/L	97
54) o-Xylene	10.099	106	387099	116.111	ug/L	100
55) Styrene	10.099	104	19738	3.545	ug/L #	1
61) Isopropylbenzene	10.484	105	113991	13.752	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	536743	75.848	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	2344456	416.127	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	74603	17.680	ug/L	99
71) Naphthalene	14.089	128	167520	19.277	ug/L	99

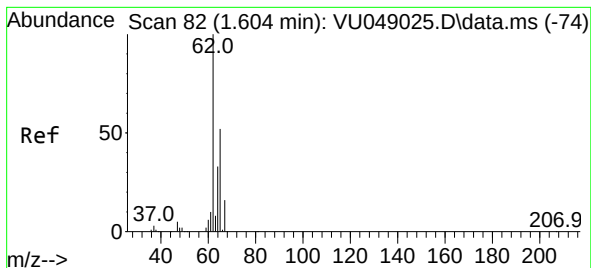
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 2080.858 ug/L

RT: 1.604 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

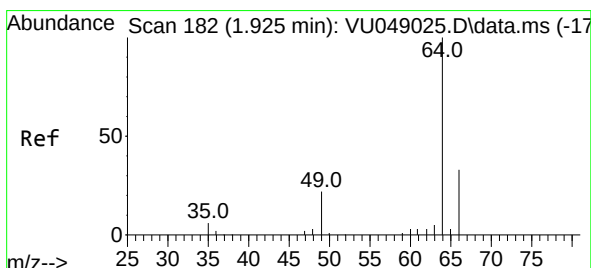
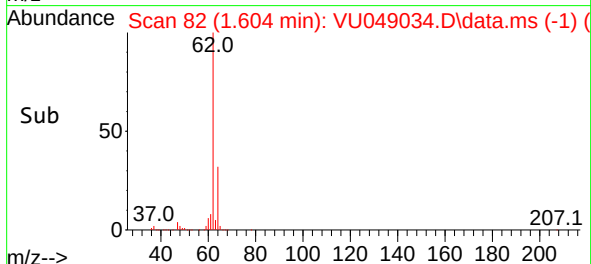
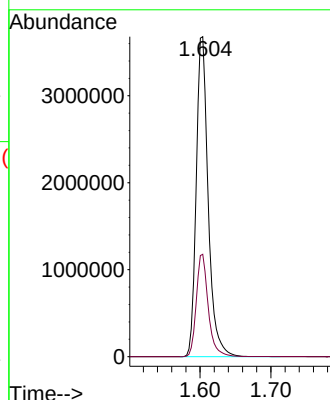
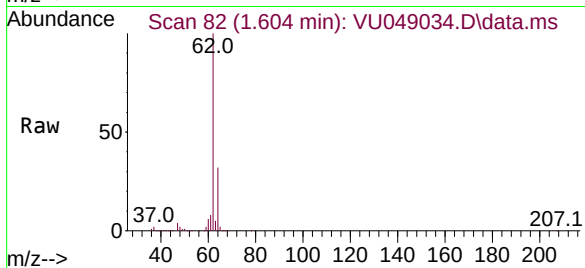
EXYX4

Tgt Ion: 62 Resp: 4306318

Ion Ratio Lower Upper

62 100

64 32.0 22.7 42.3



#8

Chloroethane

Concen: 108.856 ug/L

RT: 1.925 min Scan# 182

Delta R.T. 0.000 min

Lab File: VU049034.D

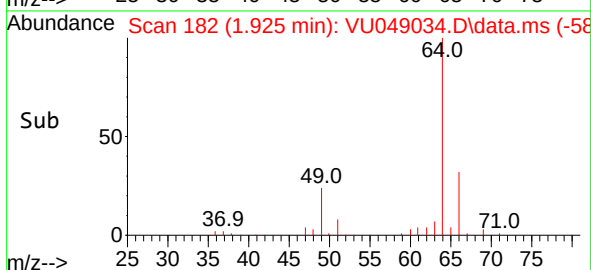
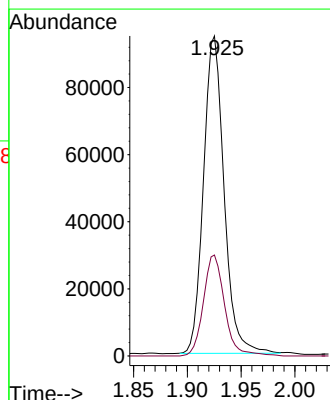
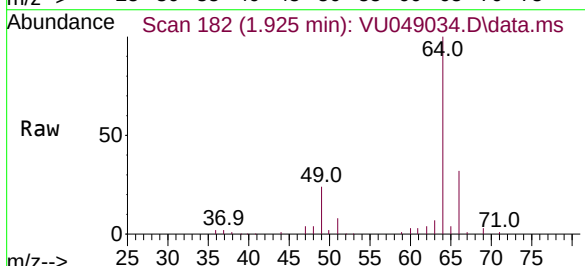
Acq: 11 Jun 2022 06:23

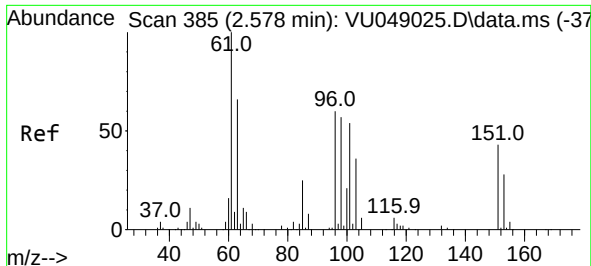
Tgt Ion: 64 Resp: 125823

Ion Ratio Lower Upper

64 100

66 31.6 23.7 43.9

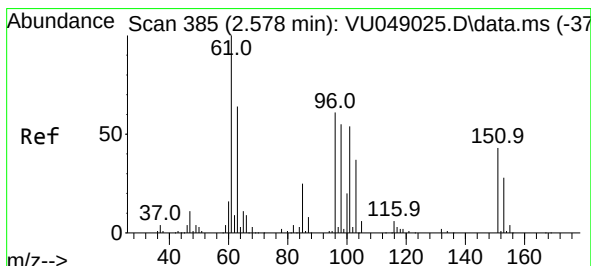
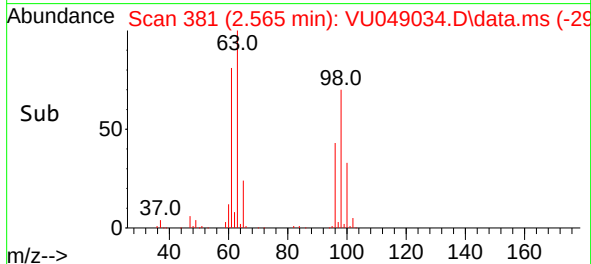
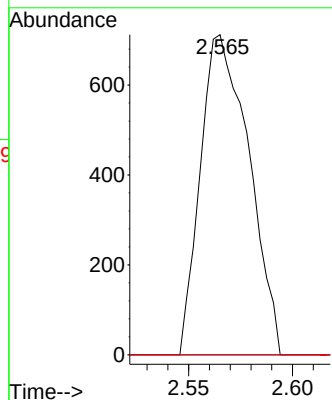
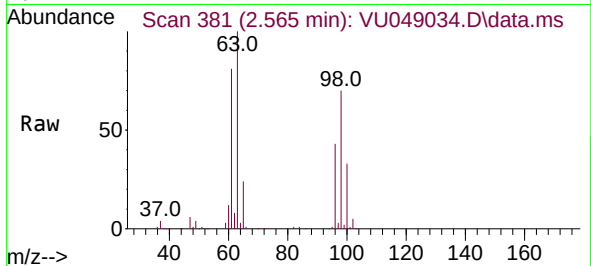




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.699 ug/L
 RT: 2.565 min Scan# 381
 Delta R.T. -0.013 min
 Lab File: VU049034.D
 Acq: 11 Jun 2022 06:23

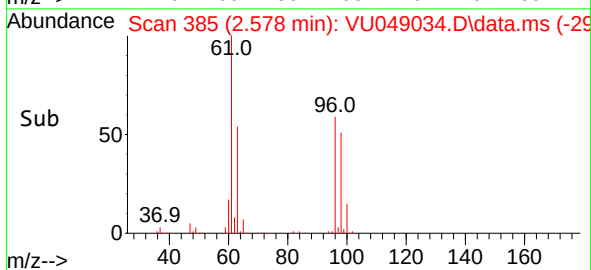
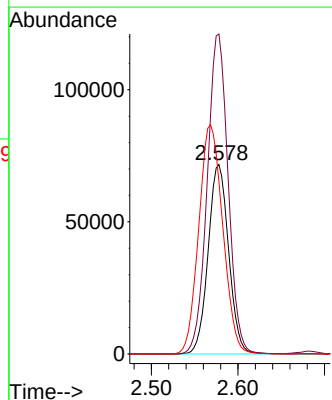
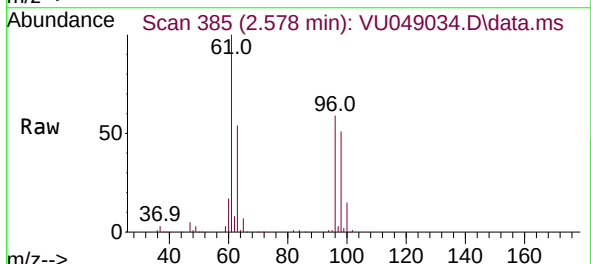
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX4

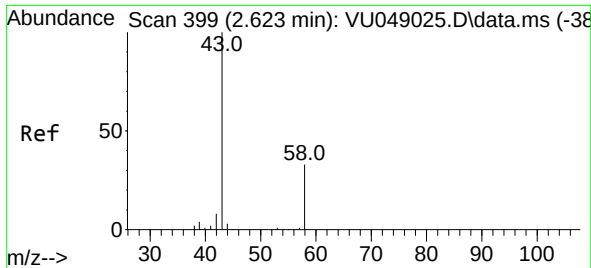
Tgt Ion:101 Resp: 1155
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.2 52.8#
 151 0.0 61.4 92.2#



#12
 1,1-Dichloroethene
 Concen: 81.377 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. 0.000 min
 Lab File: VU049034.D
 Acq: 11 Jun 2022 06:23

Tgt Ion: 96 Resp: 117775
 Ion Ratio Lower Upper
 96 100
 61 168.9 123.5 229.3
 63 91.0 86.0 159.8





#13

Acetone

Concen: 5.376 ug/L

RT: 2.626 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

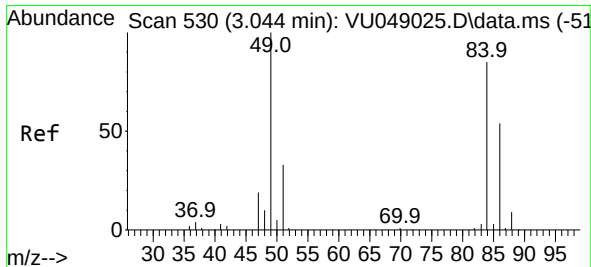
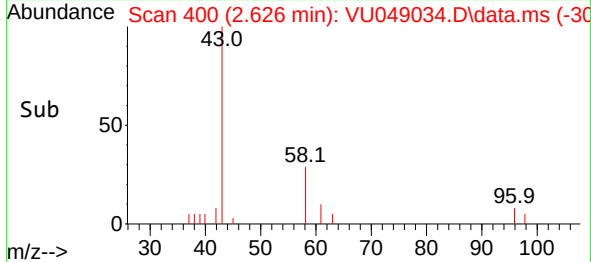
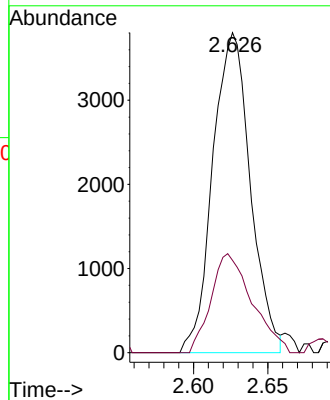
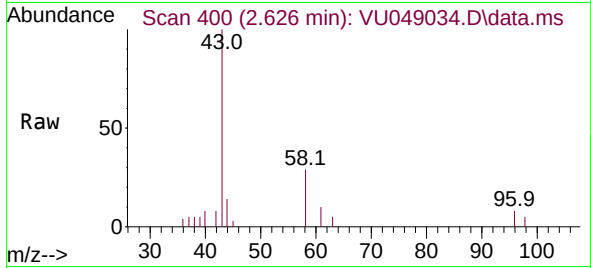
EXYX4

Tgt Ion: 43 Resp: 6706

Ion Ratio Lower Upper

43 100

58 33.7 0.0 66.4



#16

Methylene chloride

Concen: 9.376 ug/L

RT: 3.041 min Scan# 529

Delta R.T. -0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

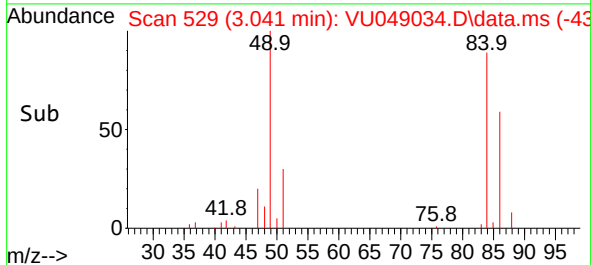
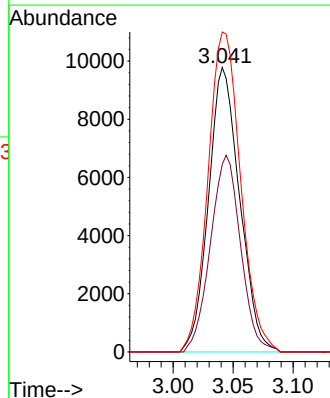
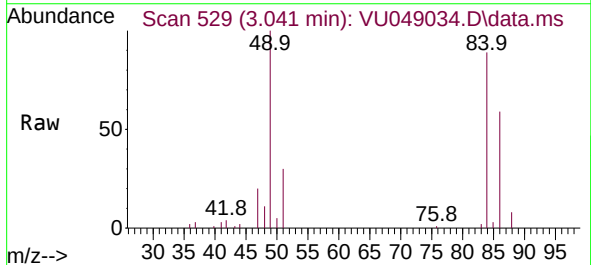
Tgt Ion: 84 Resp: 17670

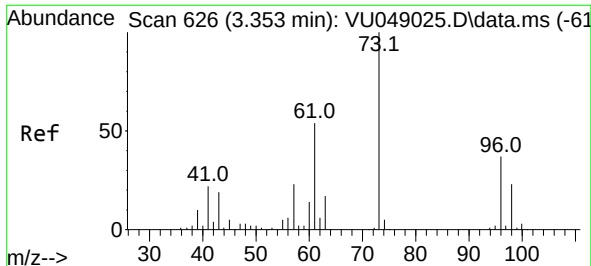
Ion Ratio Lower Upper

84 100

86 66.0 45.8 85.0

49 112.5 83.4 155.0





#17

trans-1,2-Dichloroethene

Concen: 166.449 ug/L

RT: 3.350 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

EXYX4

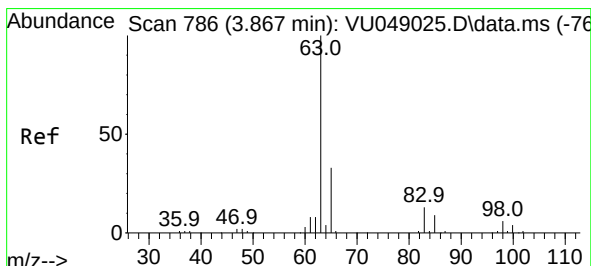
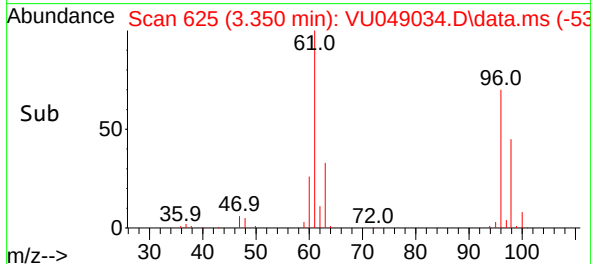
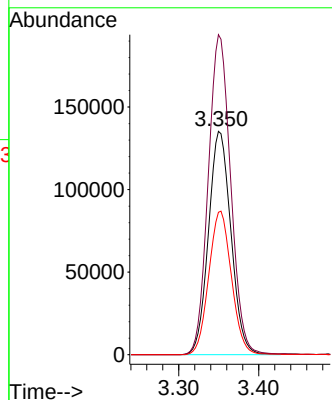
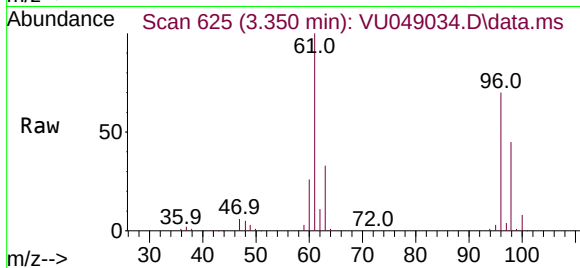
Tgt Ion: 96 Resp: 264873

Ion Ratio Lower Upper

96 100

61 143.2 99.3 184.3

98 63.7 44.7 83.1



#19

1,1-Dichloroethane

Concen: 4966.358 ug/L

RT: 3.870 min Scan# 787

Delta R.T. 0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

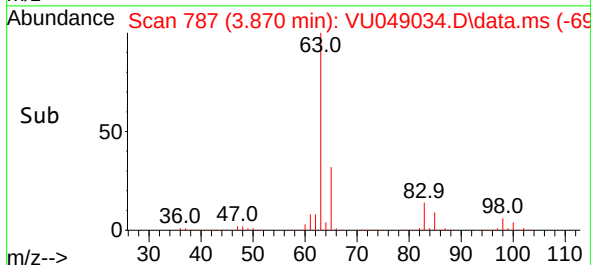
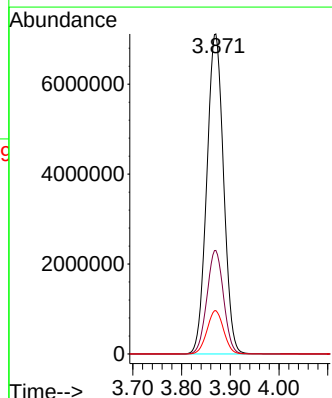
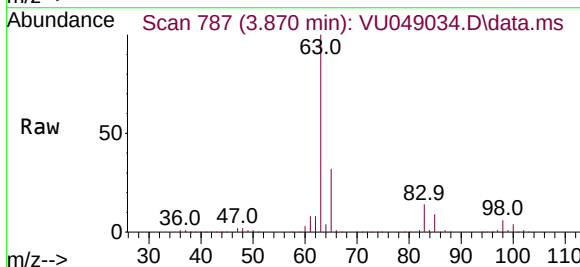
Tgt Ion: 63 Resp:17025636

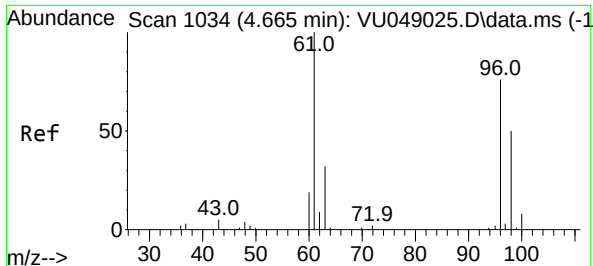
Ion Ratio Lower Upper

63 100

65 32.3 22.3 41.5

83 13.5 9.5 17.7

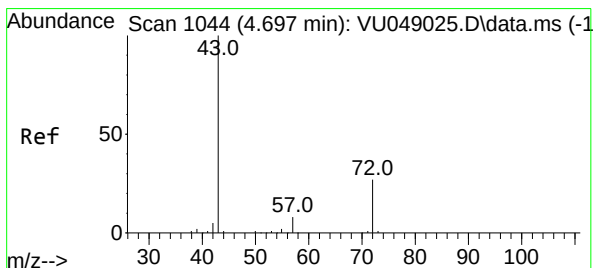
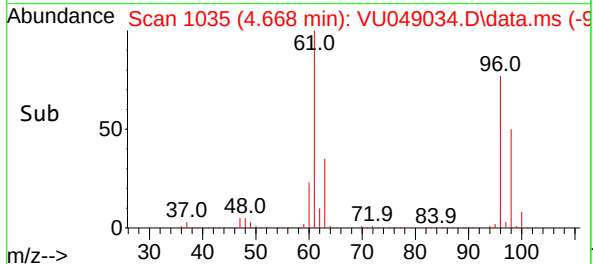
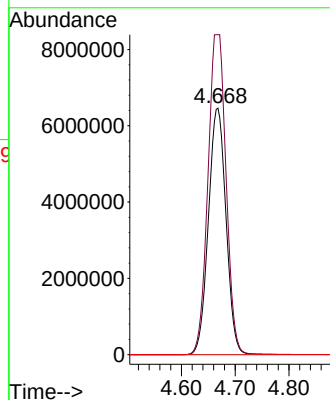
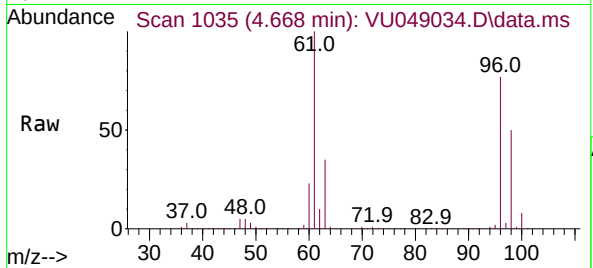




#20
cis-1,2-Dichloroethene
Concen: 7593.797 ug/L
RT: 4.668 min Scan# 1035
Delta R.T. 0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

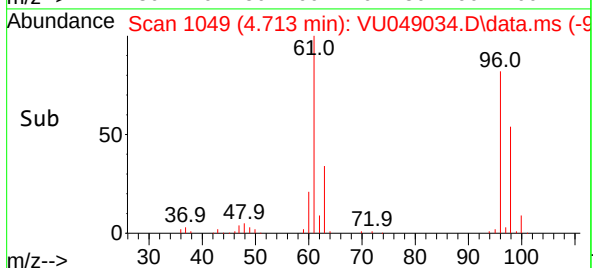
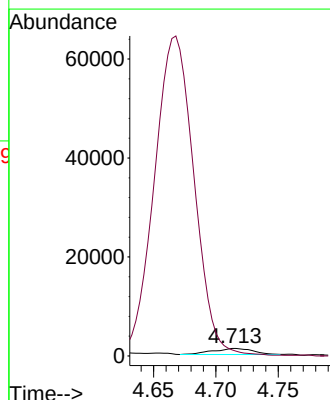
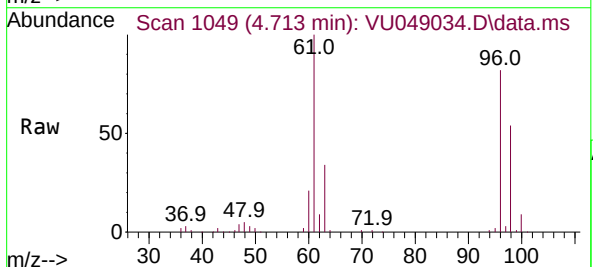
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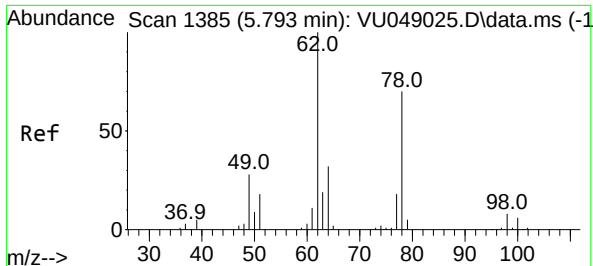
Tgt Ion: 96 Resp:14701593
Ion Ratio Lower Upper
96 100
61 129.8 91.6 170.2
68 0.0 0.0 0.0



#22
2-Butanone
Concen: 1.412 ug/L
RT: 4.713 min Scan# 1049
Delta R.T. 0.016 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 43 Resp: 2707
Ion Ratio Lower Upper
43 100
72 0.0 13.7 41.0#

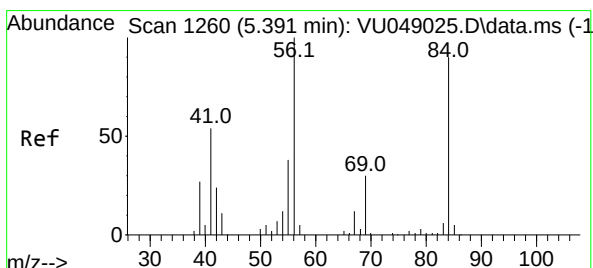
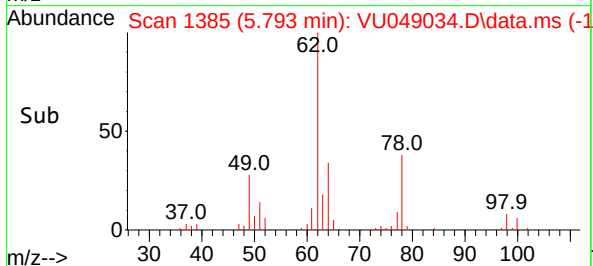
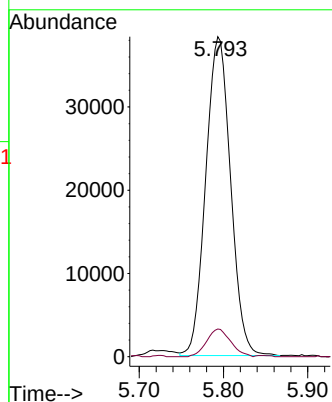
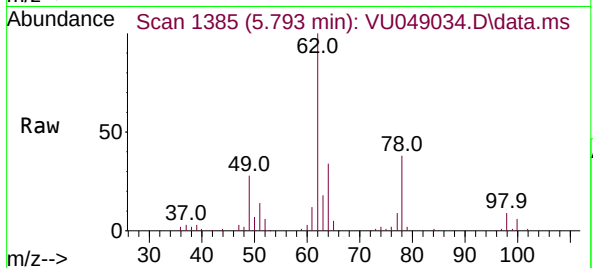




#27
1,2-Dichloroethane
Concen: 26.984 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

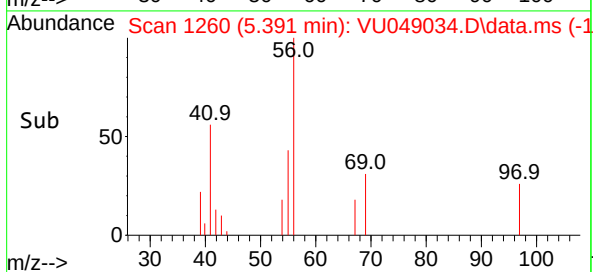
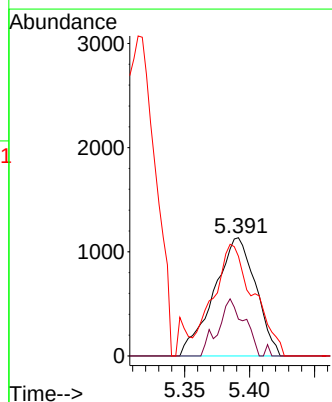
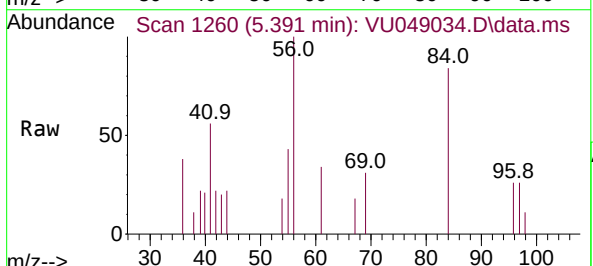
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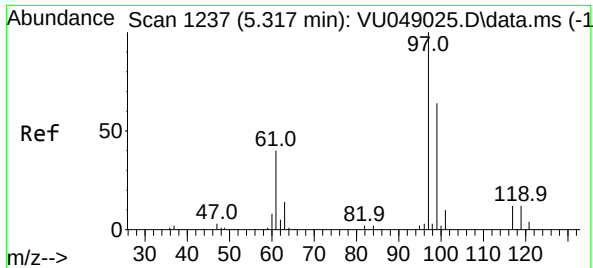
Tgt Ion: 62 Resp: 78480
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4



#29
Cyclohexane
Concen: 0.980 ug/L
RT: 5.391 min Scan# 1260
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 56 Resp: 2538
Ion Ratio Lower Upper
56 100
69 13.5 24.6 36.8#
84 54.1 69.7 104.5#





#30

1,1,1-Trichloroethane

Concen: 119.403 ug/L

RT: 5.314 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

EXYX4

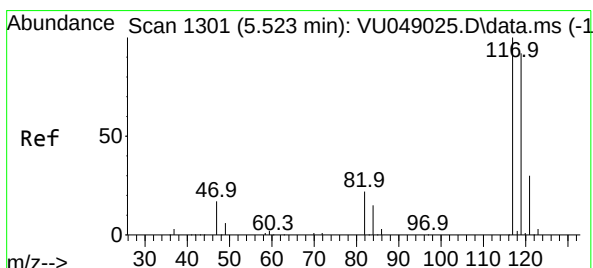
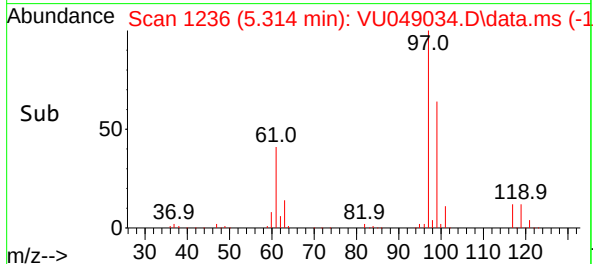
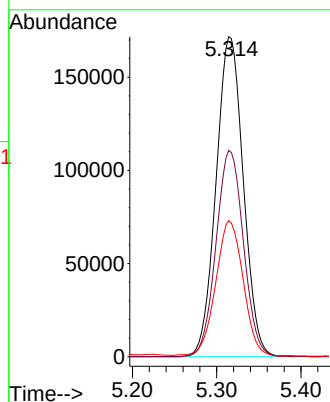
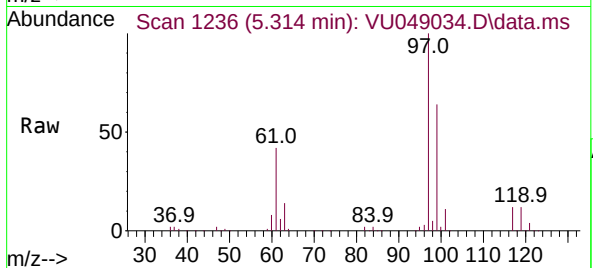
Tgt Ion: 97 Resp: 385379

Ion Ratio Lower Upper

97 100

99 64.8 50.9 76.3

61 42.7 34.2 51.2



#31

Carbon tetrachloride

Concen: 1.194 ug/L

RT: 5.520 min Scan# 1300

Delta R.T. -0.003 min

Lab File: VU049034.D

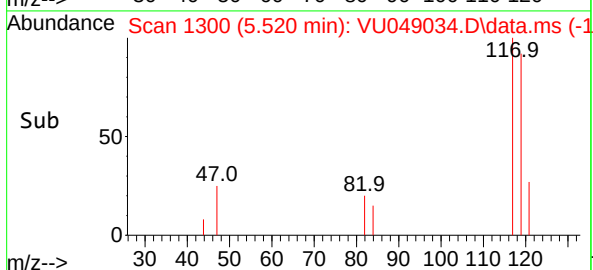
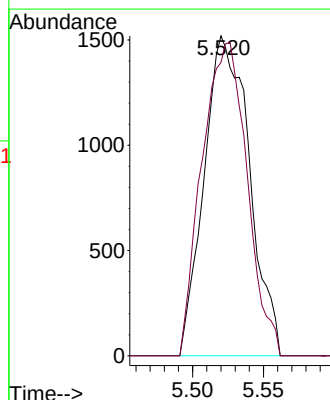
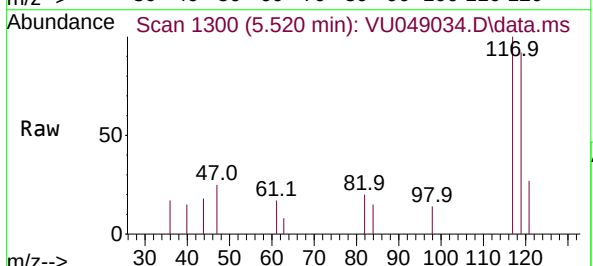
Acq: 11 Jun 2022 06:23

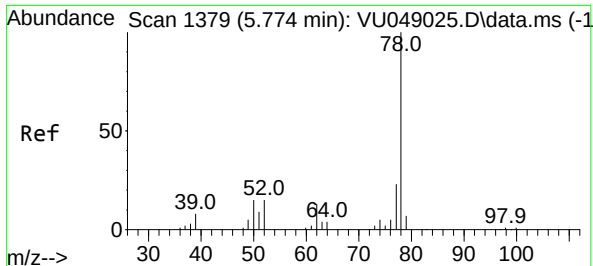
Tgt Ion: 117 Resp: 3370

Ion Ratio Lower Upper

117 100

119 97.6 76.5 114.7

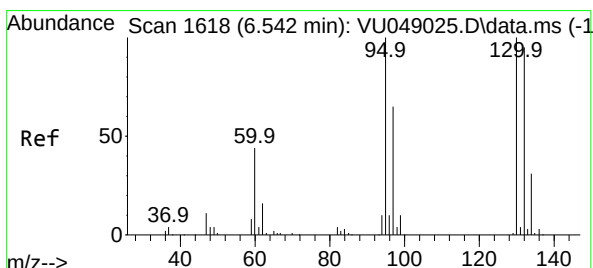
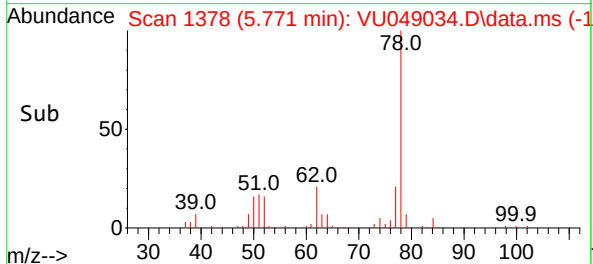
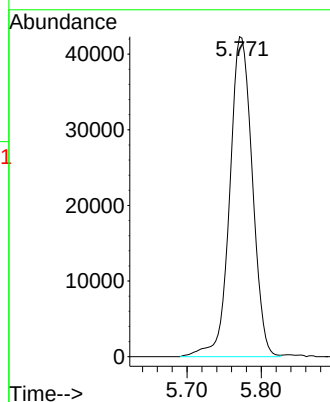
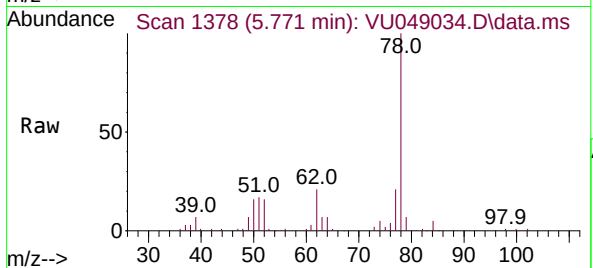




#33
Benzene
Concen: 11.945 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Instrument :
MSVOA_U
ClientSampleId :
EXYX4

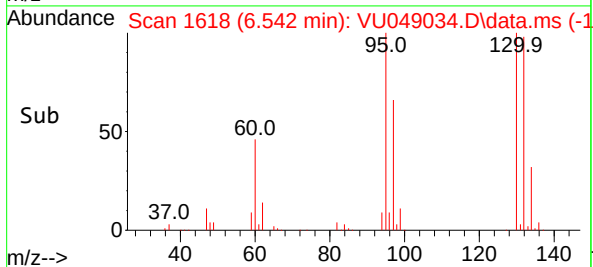
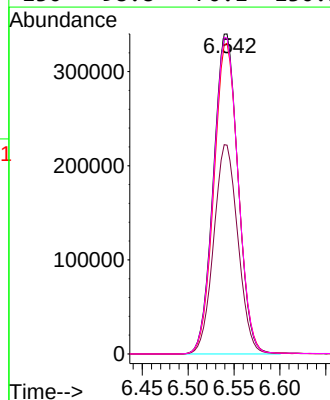
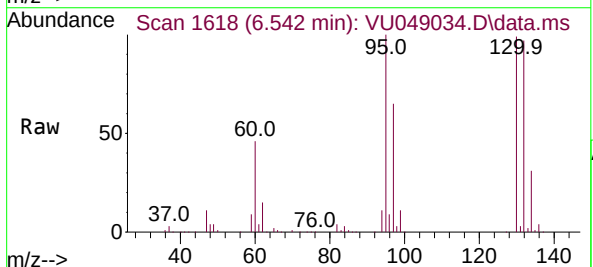
Tgt Ion: 78 Resp: 89564

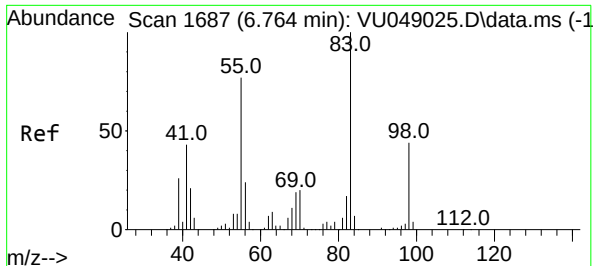


#34
Trichloroethene
Concen: 335.306 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 95 Resp: 633729

Ion	Ratio	Lower	Upper
95	100		
97	65.3	45.4	84.4
132	97.1	67.6	125.6
130	98.8	70.1	130.3





#35

Methylcyclohexane

Concen: 1.075 ug/L

RT: 6.758 min Scan# 1

Delta R.T. -0.006 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

EXYX4

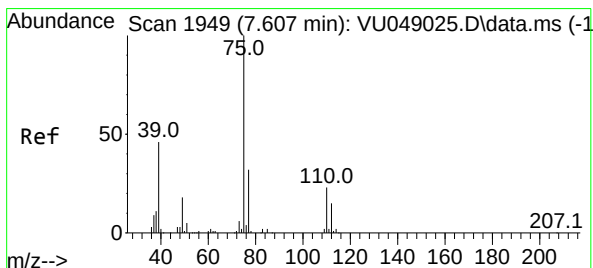
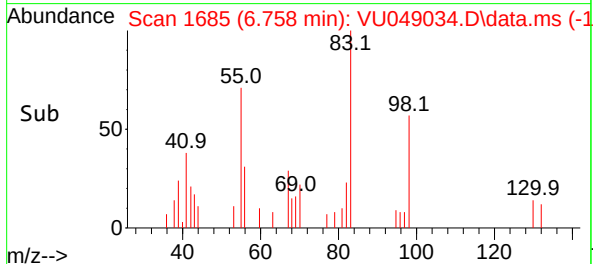
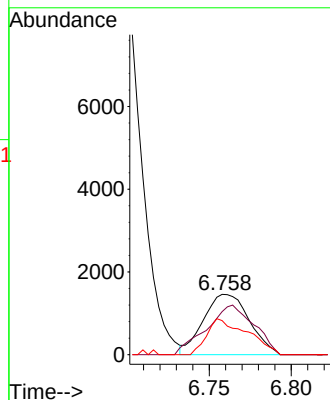
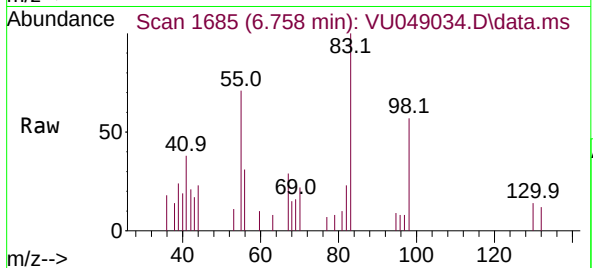
Tgt Ion: 83 Resp: 2835

Ion Ratio Lower Upper

83 100

55 84.8 61.0 91.6

98 52.7 36.8 55.2



#39

cis-1,3-Dichloropropene

Concen: 0.851 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.039 min

Lab File: VU049034.D

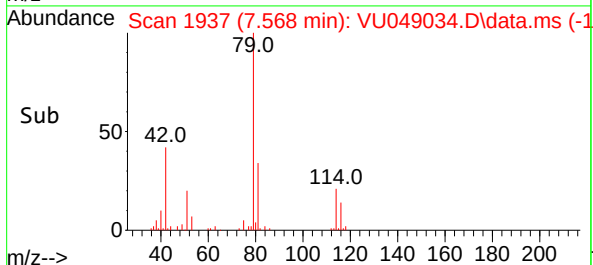
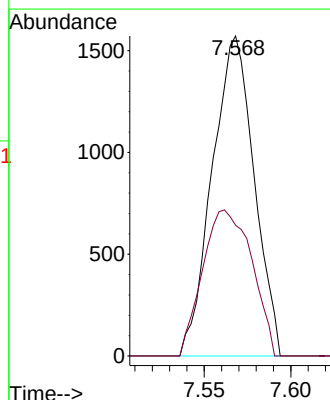
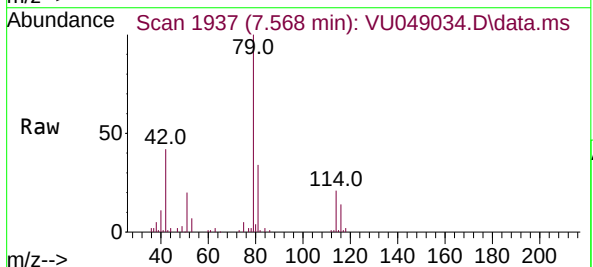
Acq: 11 Jun 2022 06:23

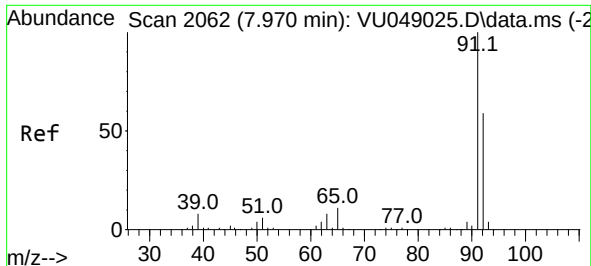
Tgt Ion: 75 Resp: 2649

Ion Ratio Lower Upper

75 100

77 40.8 22.6 42.0





#42

Toluene

Concen: 17.225 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

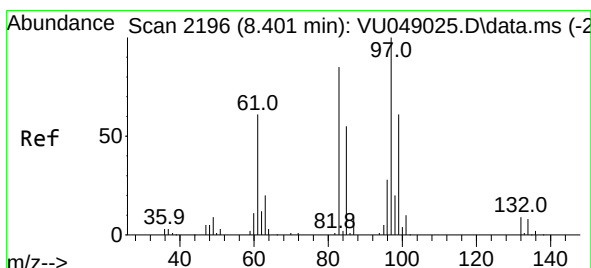
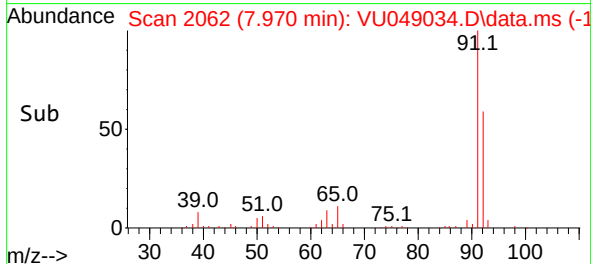
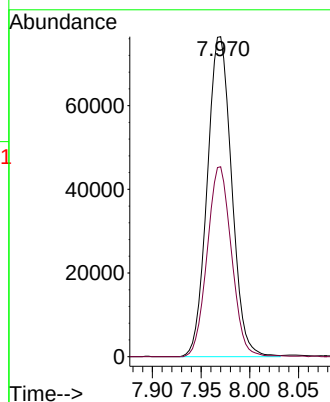
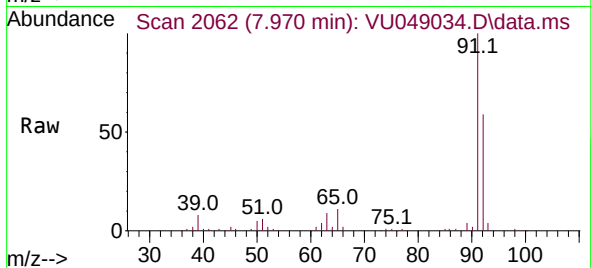
EXYX4

Tgt Ion: 91 Resp: 133490

Ion Ratio Lower Upper

91 100

92 59.3 41.6 77.3



#45

1,1,2-Trichloroethane

Concen: 18.872 ug/L

RT: 8.398 min Scan# 2195

Delta R.T. -0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Tgt Ion: 97 Resp: 38666

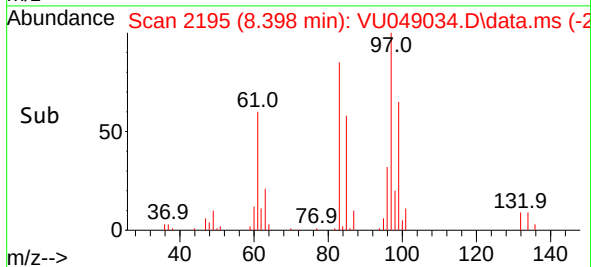
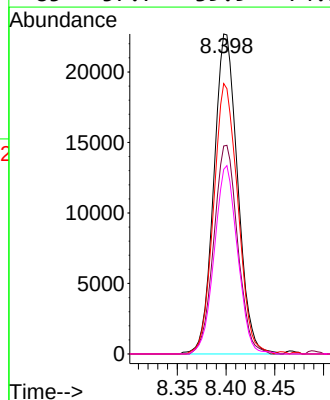
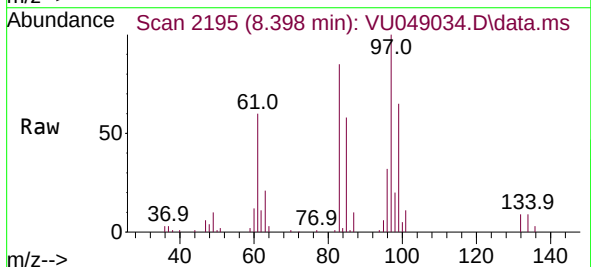
Ion Ratio Lower Upper

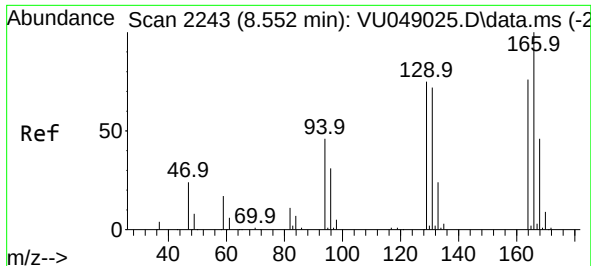
97 100

99 65.0 43.5 80.9

83 84.5 60.3 112.1

85 57.7 39.9 74.1

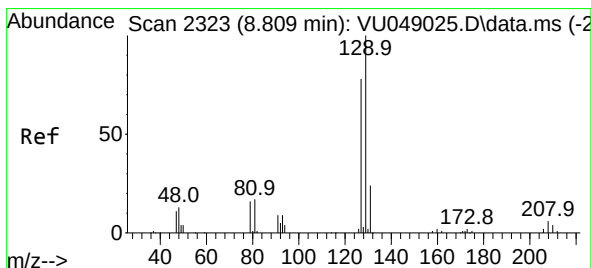
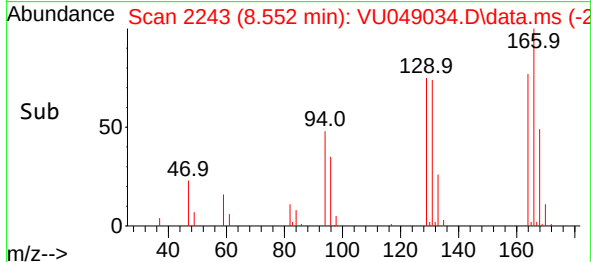
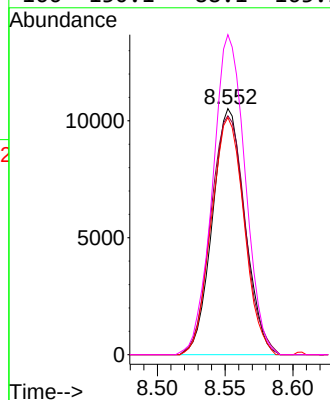
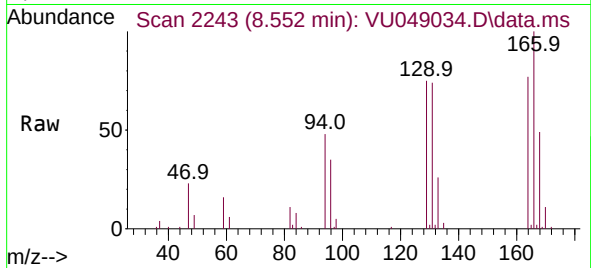




#46
Tetrachloroethene
Concen: 11.940 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

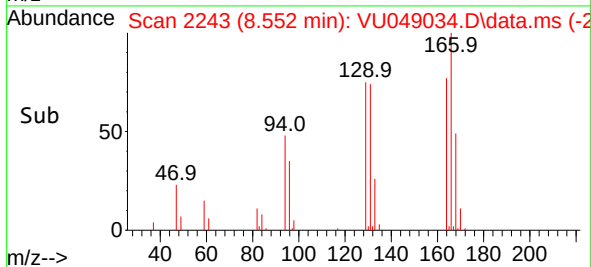
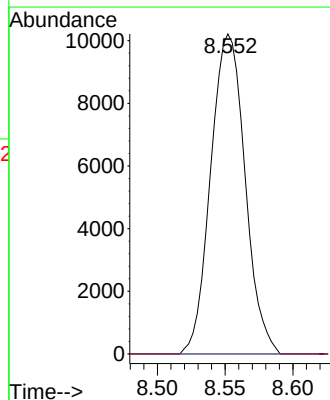
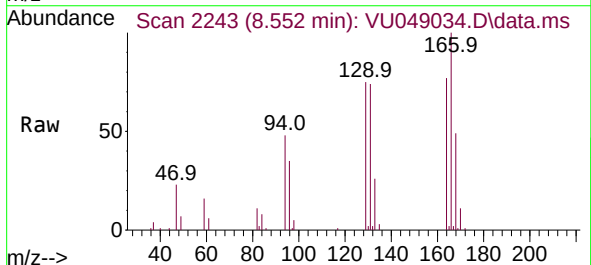
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

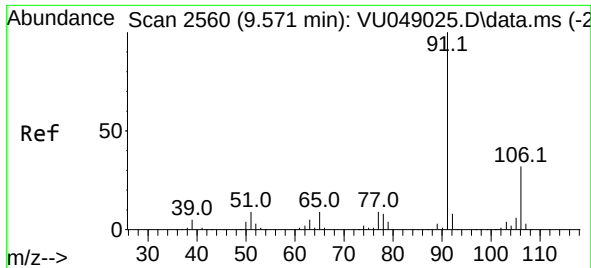
Tgt Ion:164 Resp: 17496
Ion Ratio Lower Upper
164 100
129 97.1 70.9 131.7
131 96.4 66.2 123.0
166 130.1 88.1 163.5



#49
Dibromochloromethane
Concen: 7.907 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.257 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion:129 Resp: 18038
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.5#

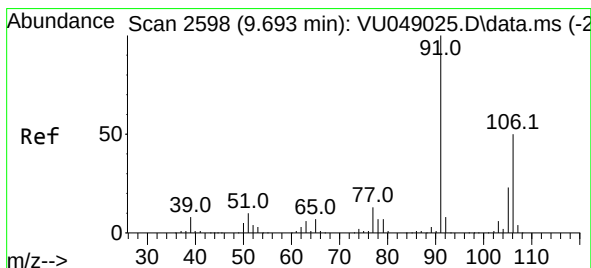
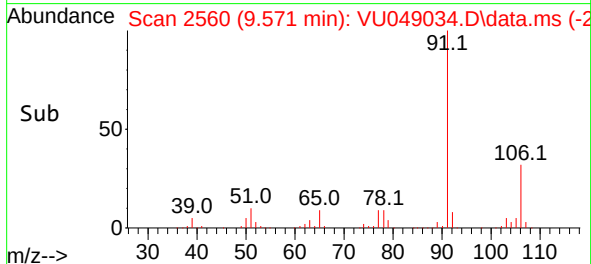
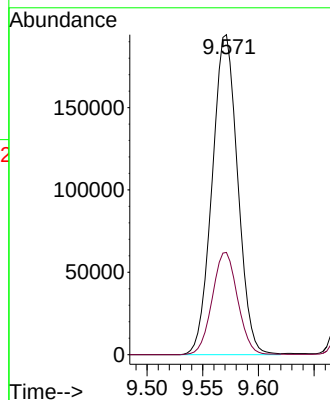
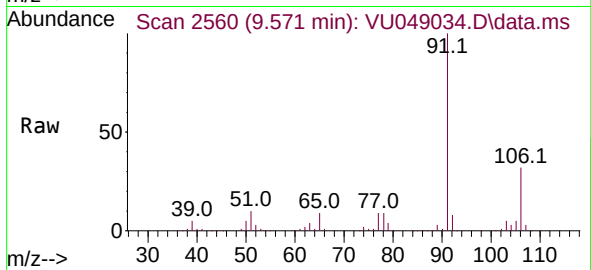




#52
Ethylbenzene
Concen: 36.790 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

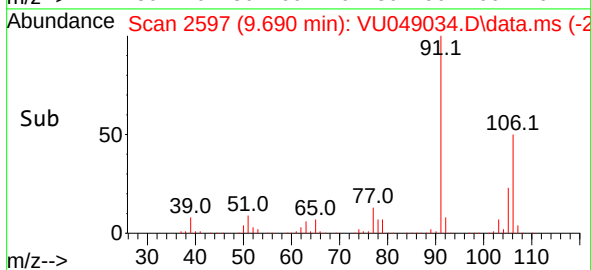
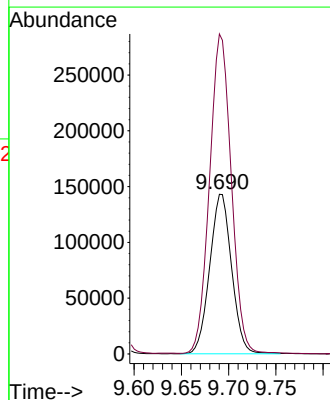
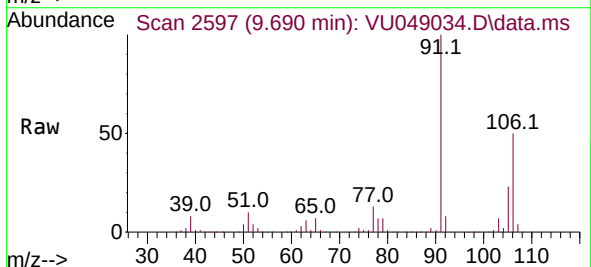
Instrument :
MSVOA_U
Client Sample Id :
EXYX4

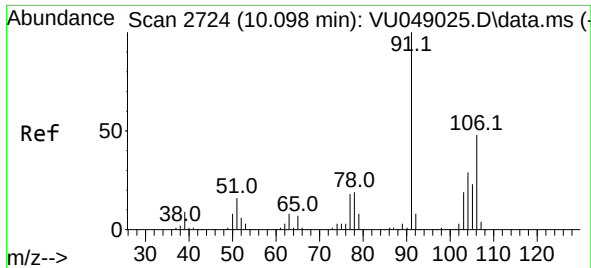
Tgt Ion: 91 Resp: 309999
Ion Ratio Lower Upper
91 100
106 32.0 21.6 40.2



#53
m,p-Xylene
Concen: 69.470 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 106 Resp: 229876
Ion Ratio Lower Upper
106 100
91 200.3 137.4 255.2

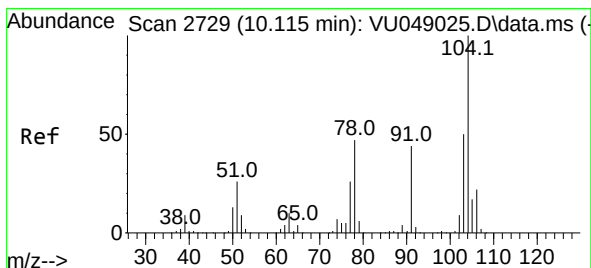
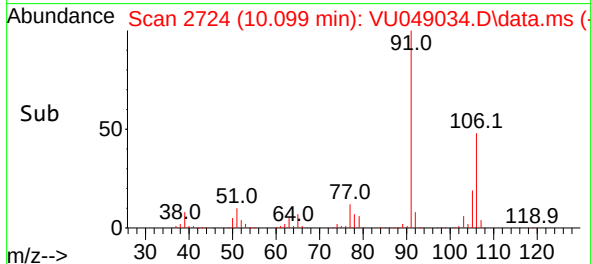
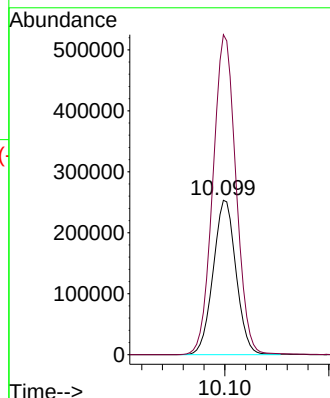
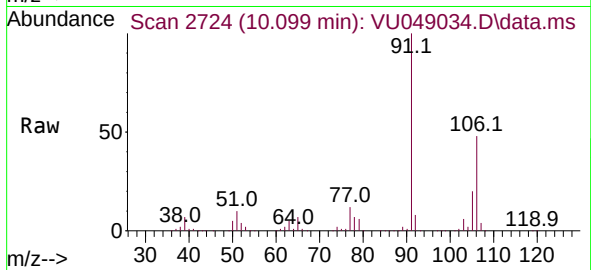




#54
o-Xylene
Concen: 116.111 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

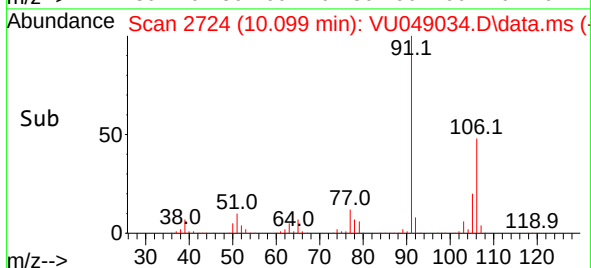
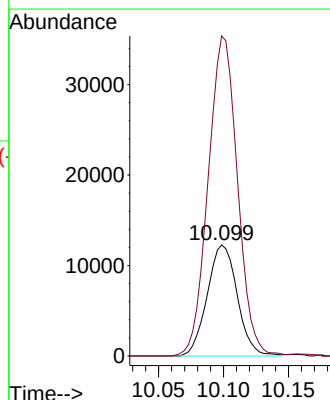
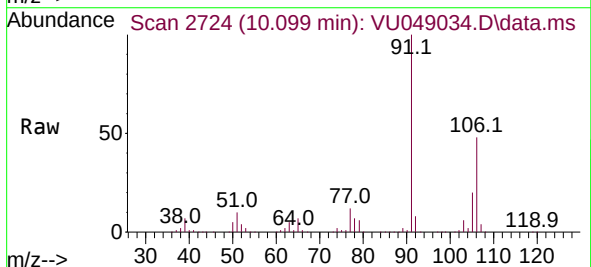
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

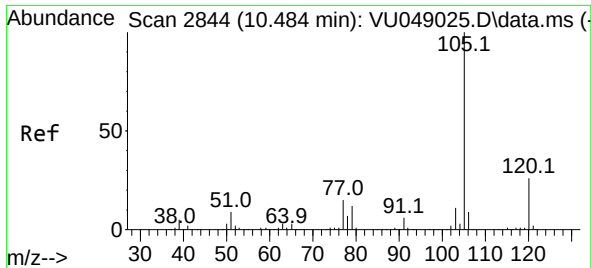
Tgt Ion:106 Resp: 387099
Ion Ratio Lower Upper
106 100
91 207.3 145.2 269.6



#55
Styrene
Concen: 3.545 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.016 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion:104 Resp: 19738
Ion Ratio Lower Upper
104 100
78 288.2 32.6 60.6#

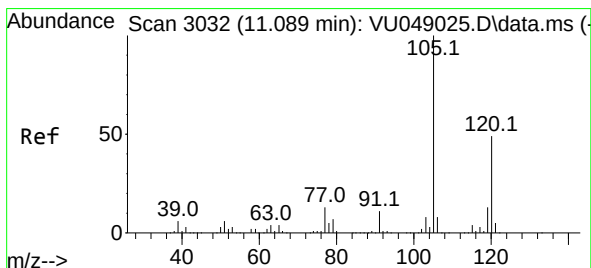
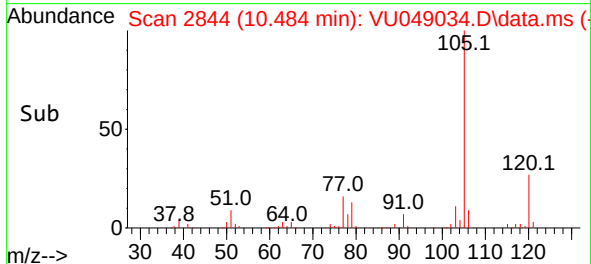
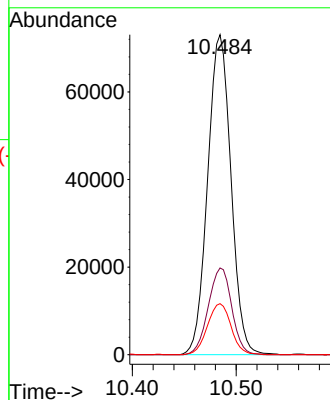
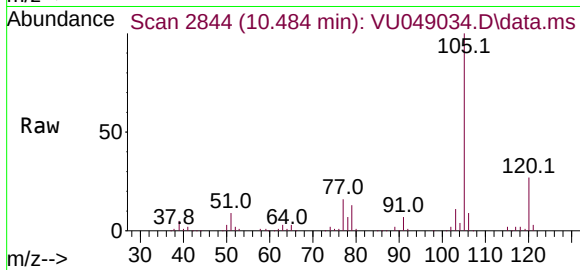




#61
Isopropylbenzene
Concen: 13.752 ug/L
RT: 10.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

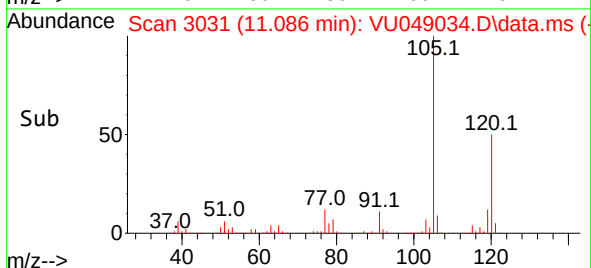
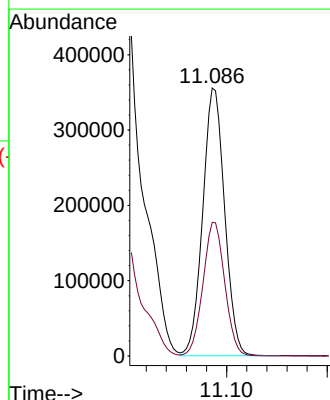
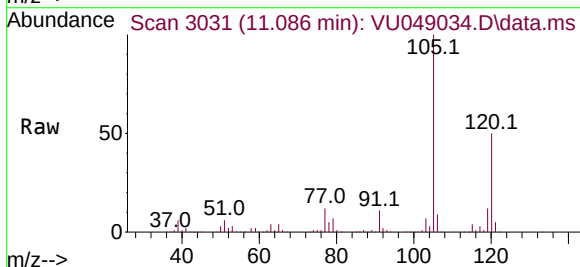
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

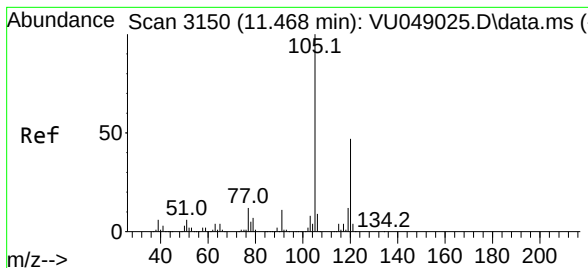
Tgt Ion:105 Resp: 113991
Ion Ratio Lower Upper
105 100
120 27.2 21.1 31.7
77 16.2 12.7 19.1



#62
1,3,5-Trimethylbenzene
Concen: 75.848 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion:105 Resp: 536743
Ion Ratio Lower Upper
105 100
120 49.8 39.1 58.7





#63

1,2,4-Trimethylbenzene

Concen: 416.127 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

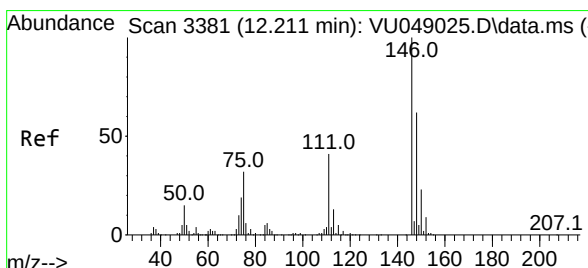
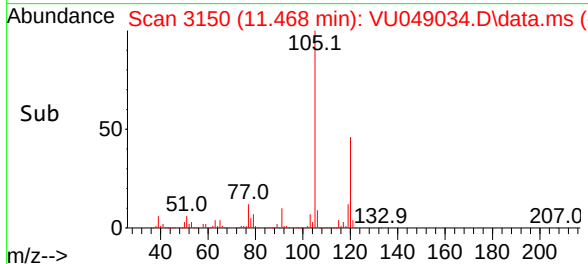
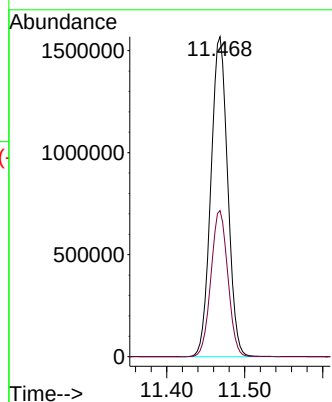
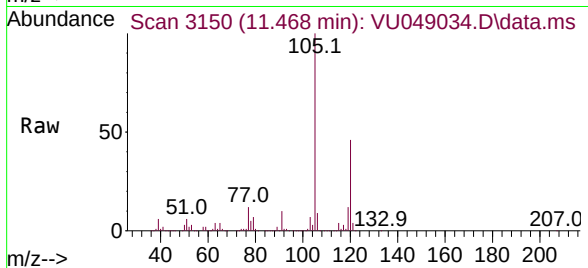
EXYX4

Tgt Ion:105 Resp: 2344456

Ion Ratio Lower Upper

105 100

120 45.9 36.3 54.5



#67

1,2-Dichlorobenzene

Concen: 17.680 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

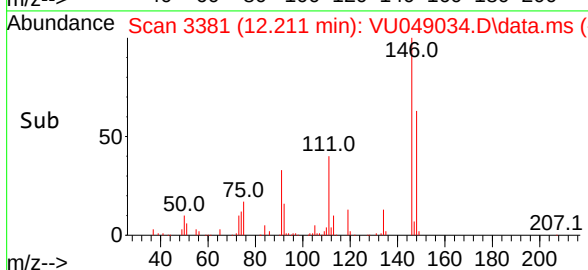
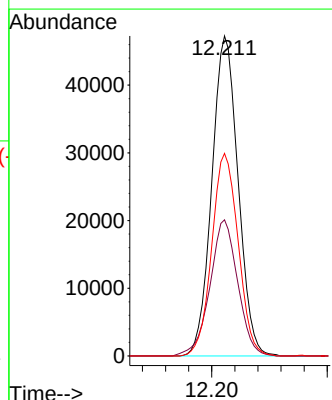
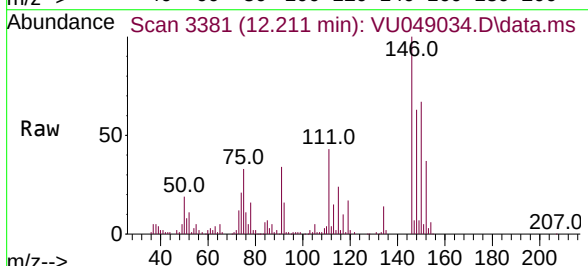
Tgt Ion:146 Resp: 74603

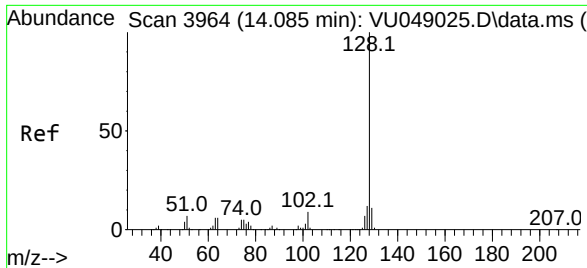
Ion Ratio Lower Upper

146 100

111 42.6 33.9 50.9

148 63.3 50.2 75.2





#71

Naphthalene

Concen: 19.277 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VU049034.D

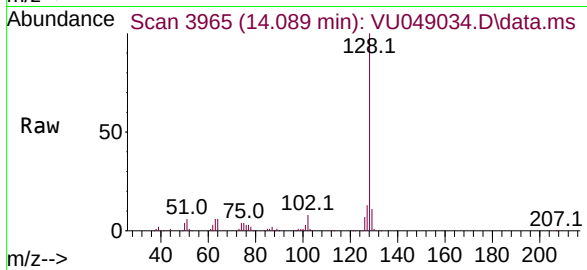
Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

EXYX4



Tgt Ion:128 Resp: 167520

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

129 11.1 8.6 12.8

