

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
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
27) 1,2-Dichloroethane	5.793	62	78480	26.984	ug/L	100
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
42) Toluene	7.970	91	133490	17.225	ug/L	100
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
52) Ethylbenzene	9.571	91	309999	36.790	ug/L	98
53) m,p-Xylene	9.690	106	229876	69.470	ug/L	97

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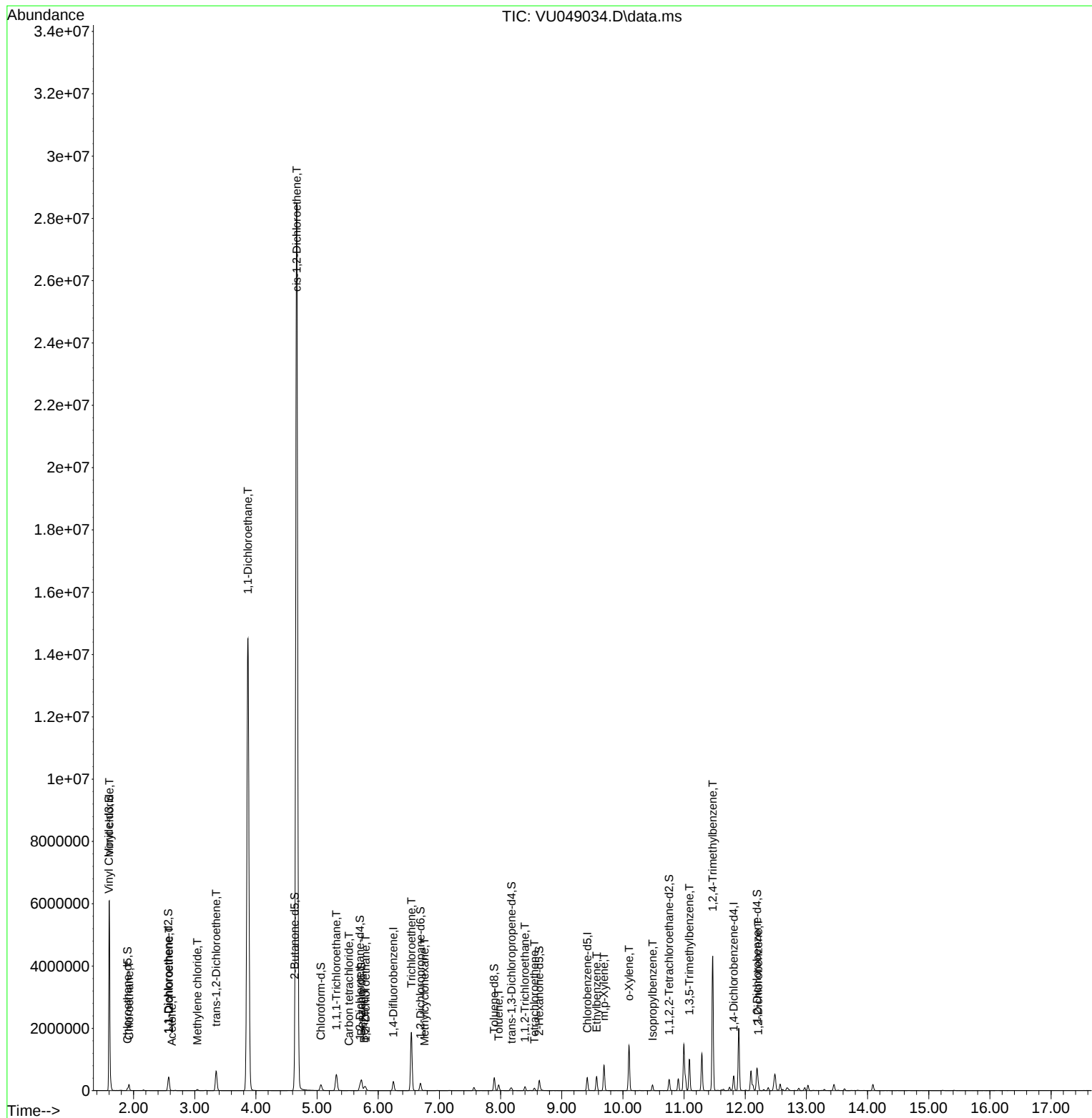
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.099	106	387099	116.111	ug/L	100
61) Isopropylbenzene	10.484	105	113991	13.752	ug/L	99
62) 1,3,5-Trimethylbenzene	11.086	105	536743	75.848	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	2344456	416.127	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	74603	17.680	ug/L	99

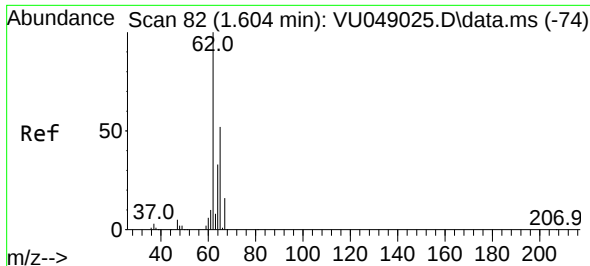
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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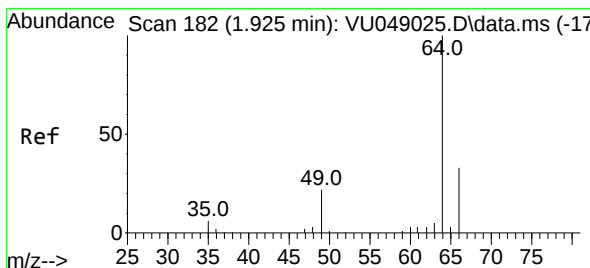
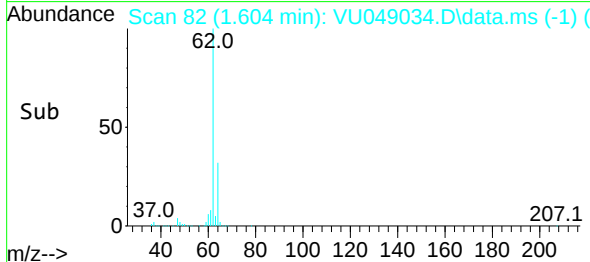
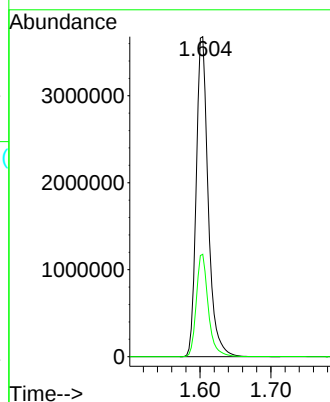
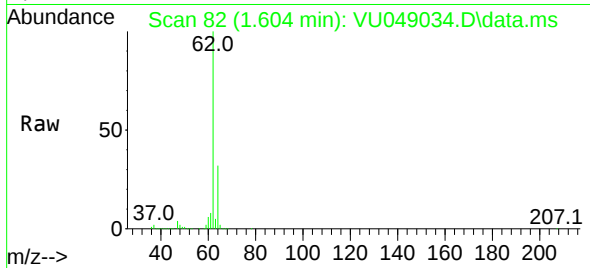




#5
 Vinyl chloride
 Concen: 2080.858 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU049034.D
 Acq: 11 Jun 2022 06:23

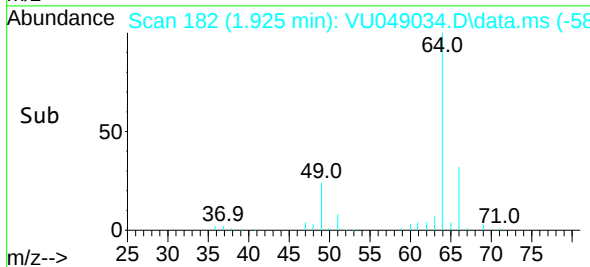
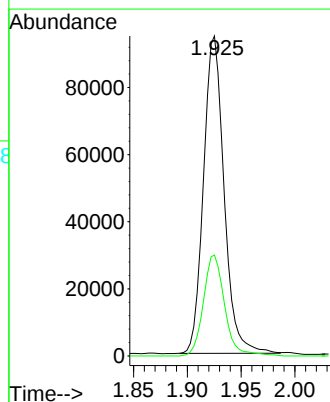
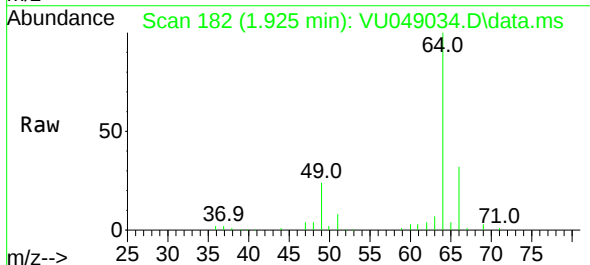
Instrument :
 MSVOA_U
 ClientSampleId :
 EXYX4

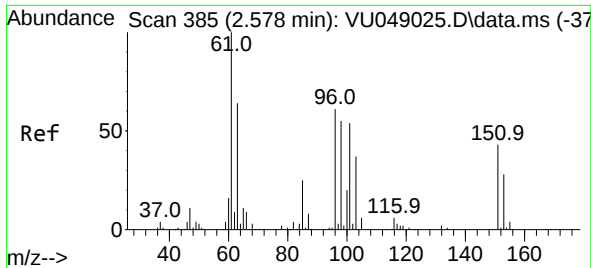
Tgt Ion: 62 Resp: 4306318
 Ion Ratio Lower Upper
 62 100
 64 32.0 22.7 42.3



#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

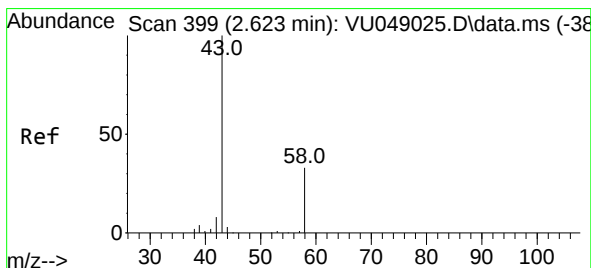
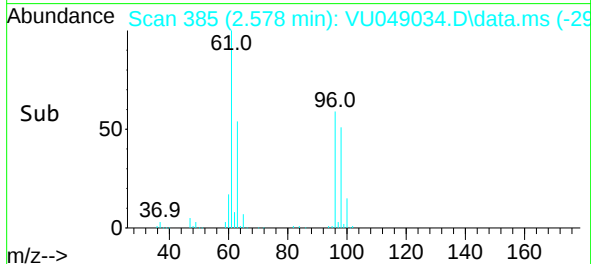
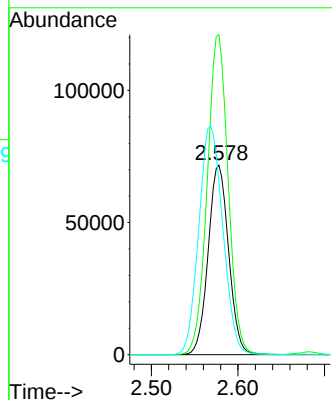
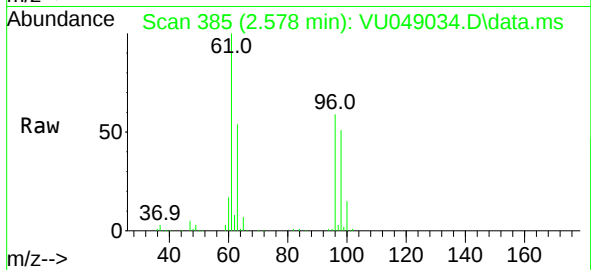




#12
1,1-Dichloroethene
Concen: 81.377 ug/L
RT: 2.578 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

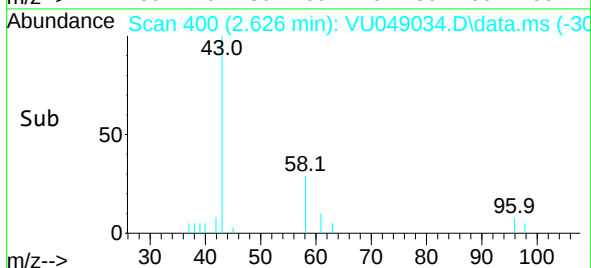
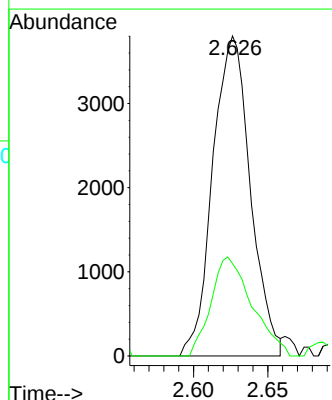
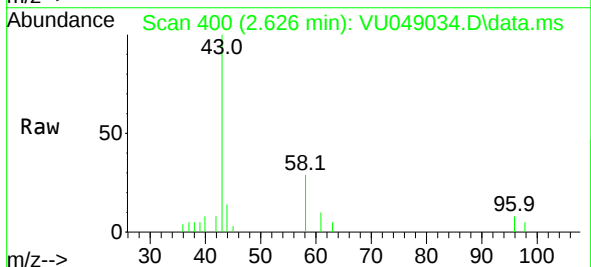
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

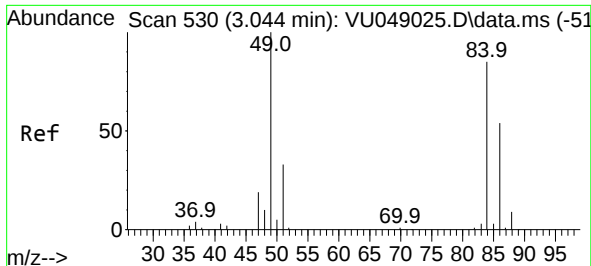
Tgt Ion: 96 Resp: 117775
Ion Ratio Lower Upper
96 100
61 168.9 123.5 229.3
63 91.0 86.0 159.8



#13
Acetone
Concen: 5.376 ug/L
RT: 2.626 min Scan# 400
Delta R.T. 0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 43 Resp: 6706
Ion Ratio Lower Upper
43 100
58 33.7 0.0 66.4

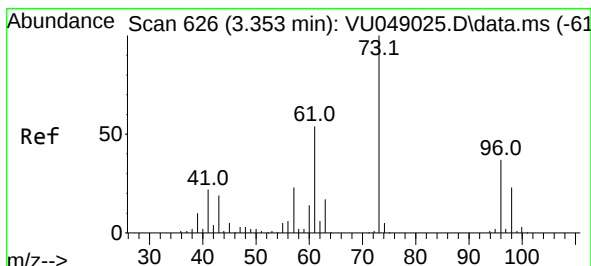
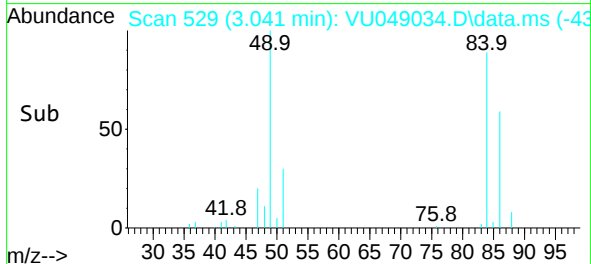
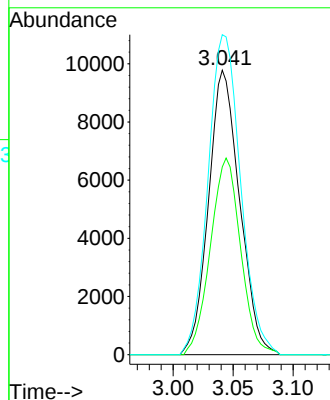
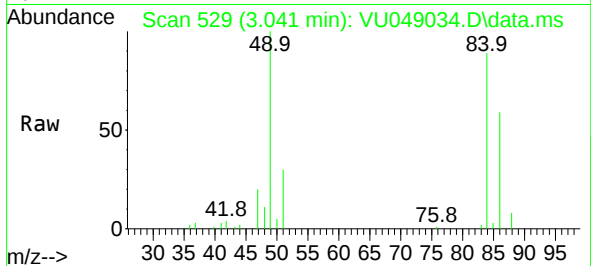




#16
Methylene chloride
Concen: 9.376 ug/L
RT: 3.041 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

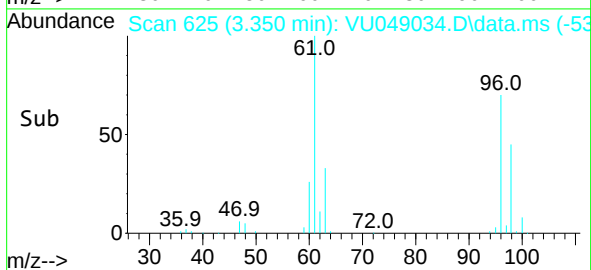
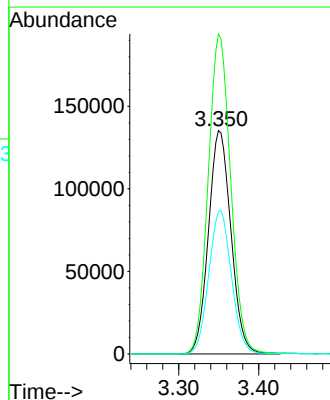
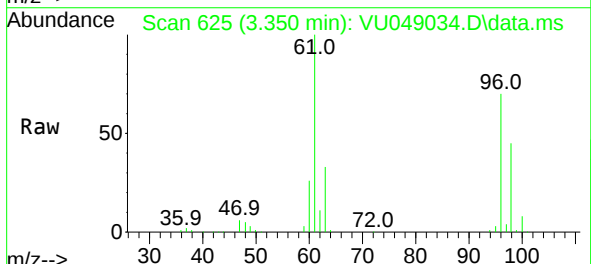
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

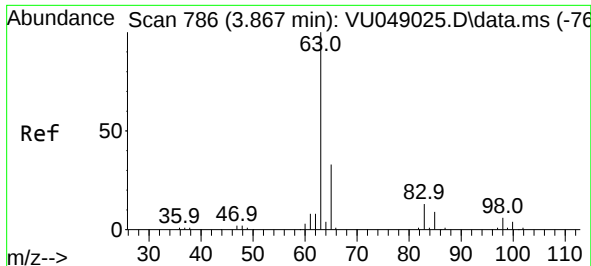
Tgt Ion: 84 Resp: 17670
Ion Ratio Lower Upper
84 100
86 66.0 45.8 85.0
49 112.5 83.4 155.0



#17
trans-1,2-Dichloroethene
Concen: 166.449 ug/L
RT: 3.350 min Scan# 625
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

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# 786

Delta R.T. 0.003 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

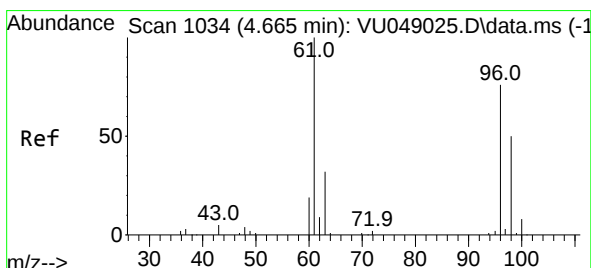
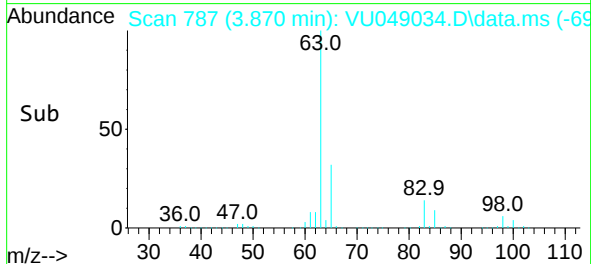
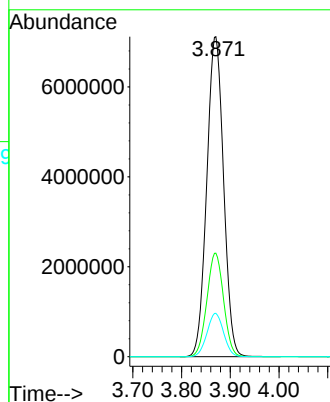
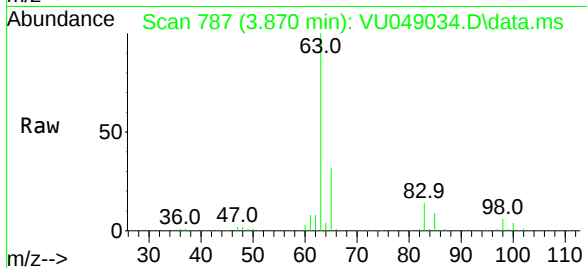
MSVOA_U

ClientSampleId :

EXYX4

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

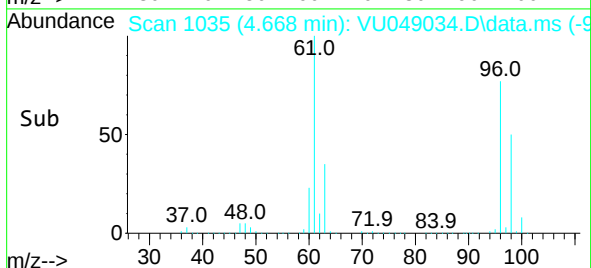
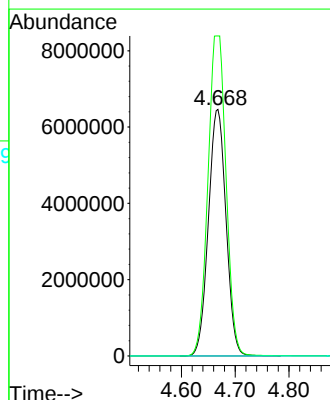
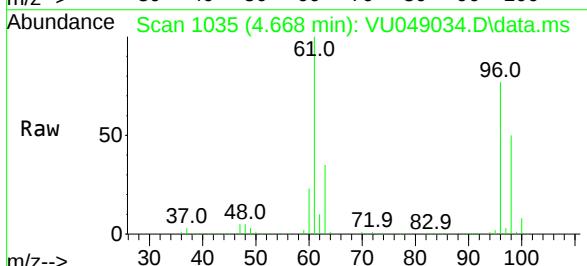
Delta R.T. 0.003 min

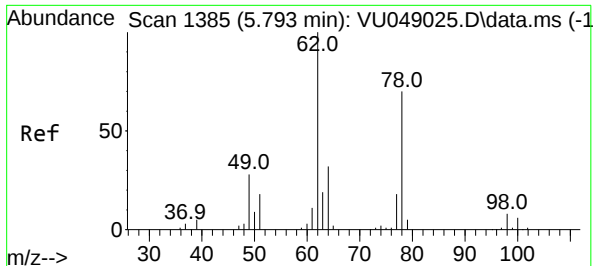
Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

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

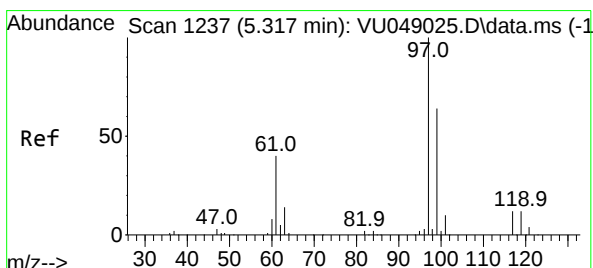
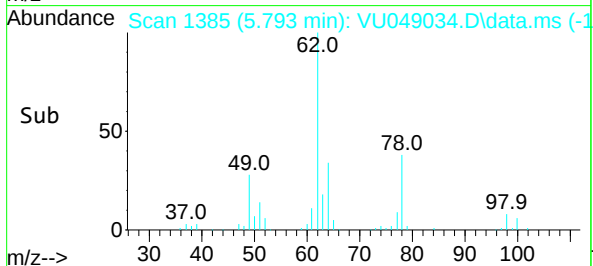
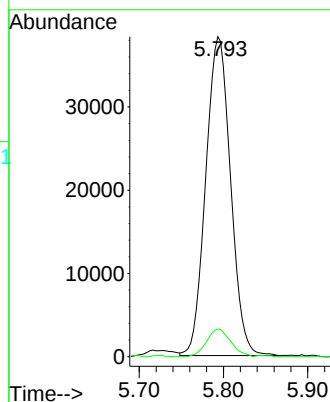
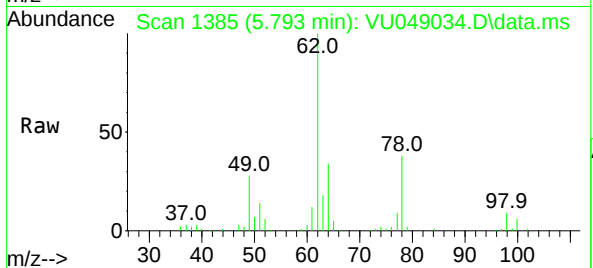




#27
1,2-Dichloroethane
Concen: 26.984 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

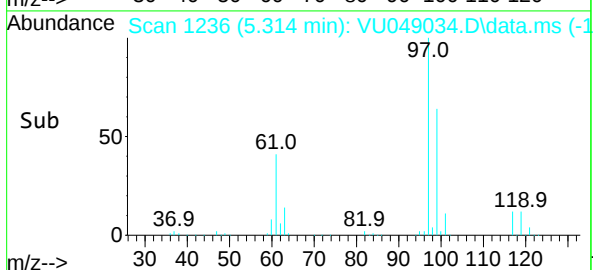
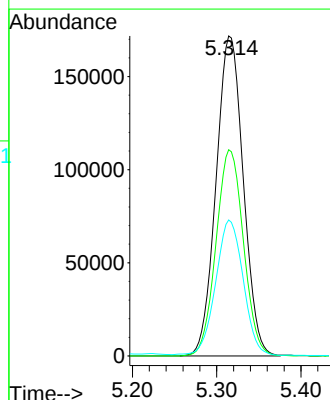
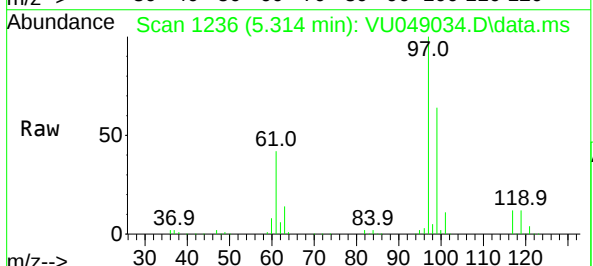
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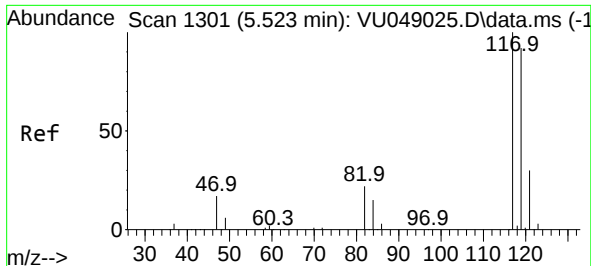
Tgt Ion: 62 Resp: 78480
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4



#30
1,1,1-Trichloroethane
Concen: 119.403 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

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

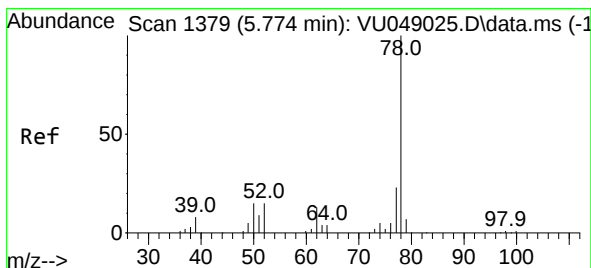
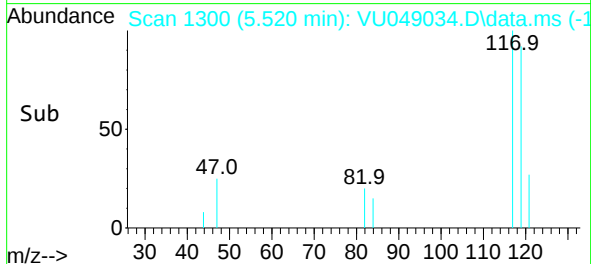
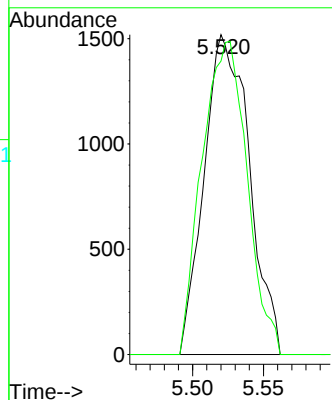
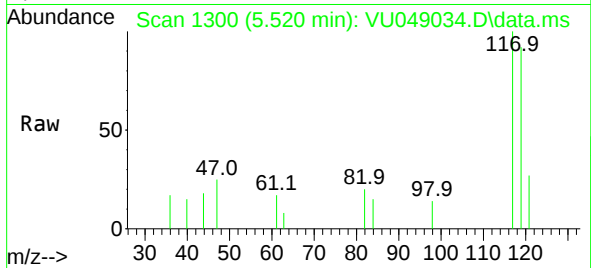




#31
Carbon tetrachloride
Concen: 1.194 ug/L
RT: 5.520 min Scan# 117
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

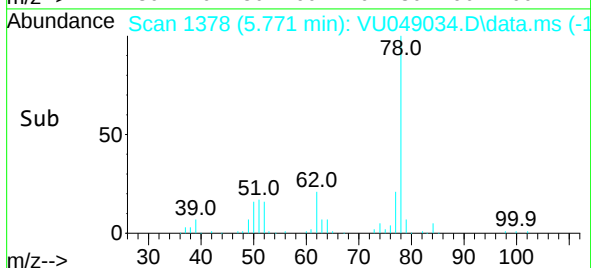
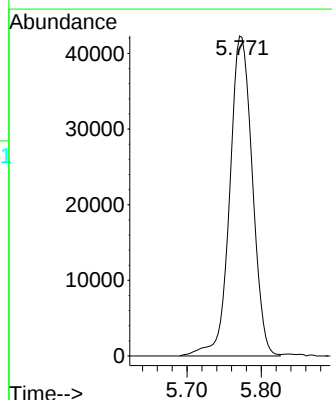
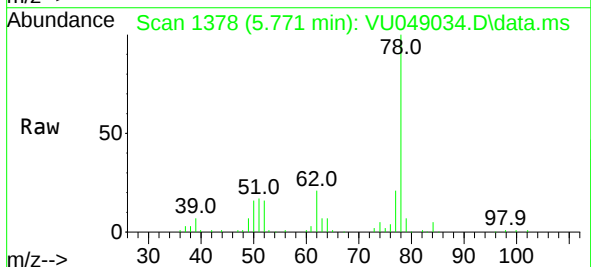
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

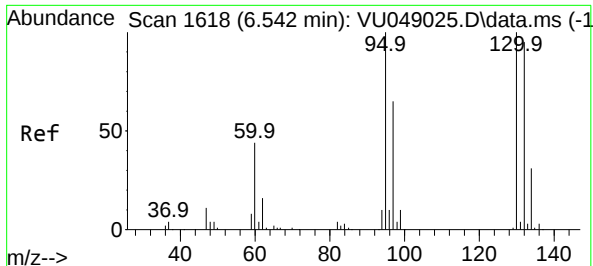
Tgt Ion:117 Resp: 3370
Ion Ratio Lower Upper
117 100
119 97.6 76.5 114.7



#33
Benzene
Concen: 11.945 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

Tgt Ion: 78 Resp: 89564





#34

Trichloroethene

Concen: 335.306 ug/L

RT: 6.542 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

Instrument :

MSVOA_U

ClientSampleId :

EXYX4

Tgt Ion: 95 Resp: 633729

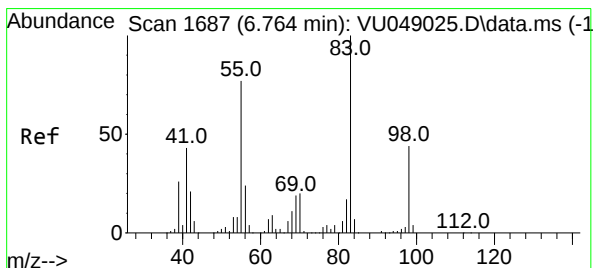
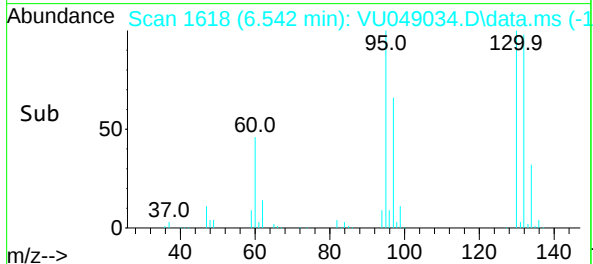
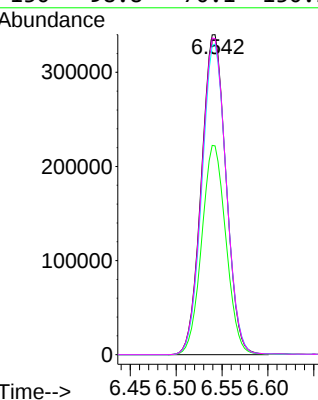
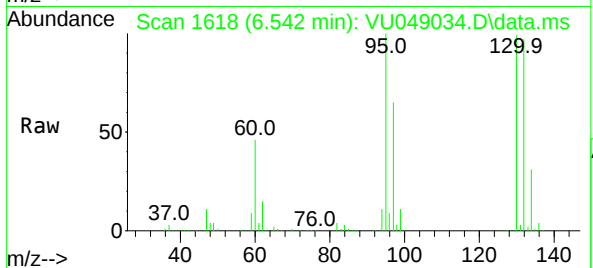
Ion Ratio Lower Upper

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# 1685

Delta R.T. -0.006 min

Lab File: VU049034.D

Acq: 11 Jun 2022 06:23

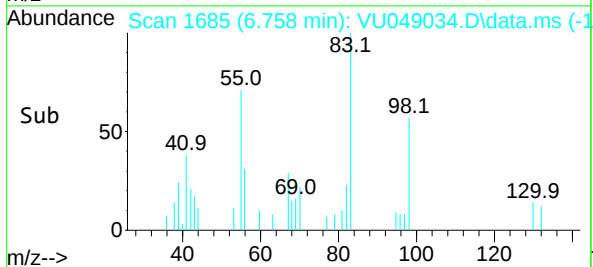
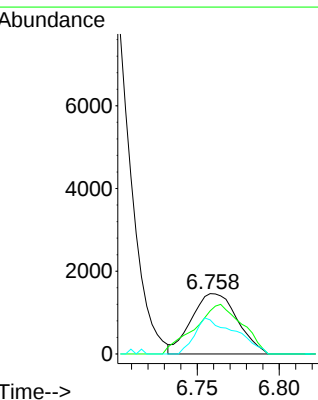
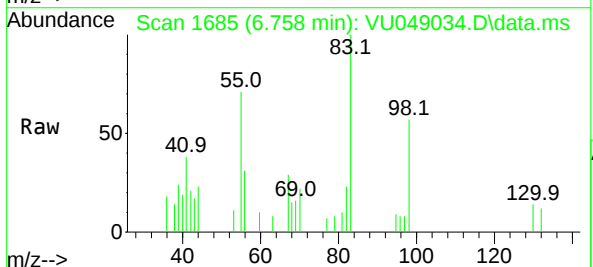
Tgt Ion: 83 Resp: 2835

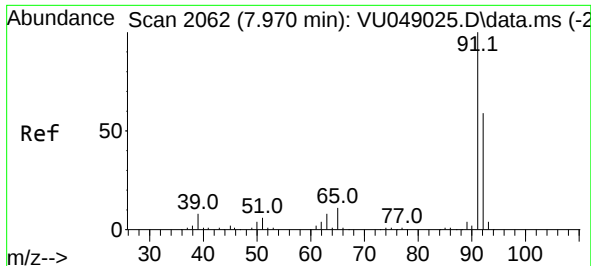
Ion Ratio Lower Upper

83 100

55 84.8 61.0 91.6

98 52.7 36.8 55.2





#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 :

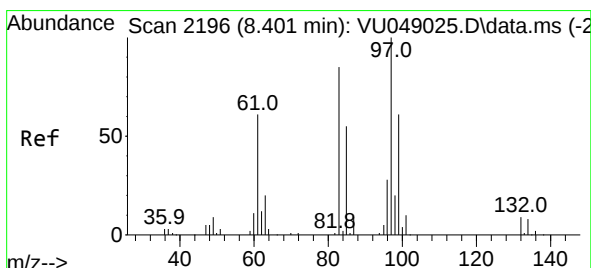
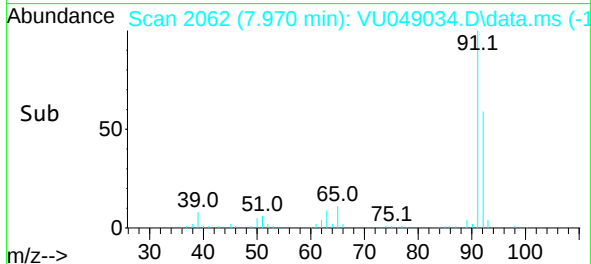
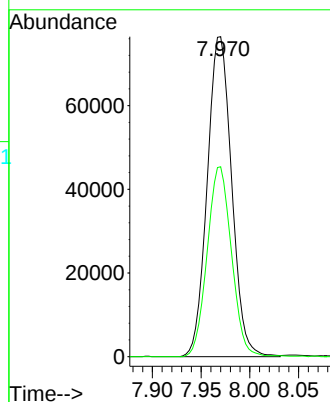
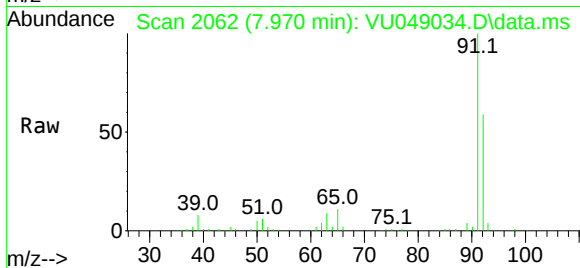
EXYX4

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

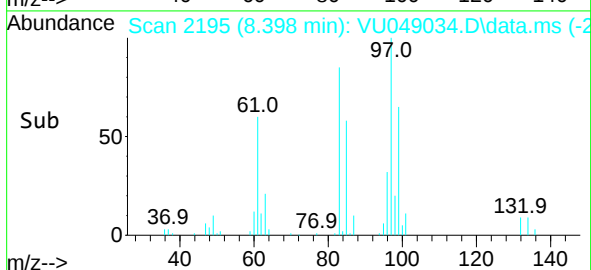
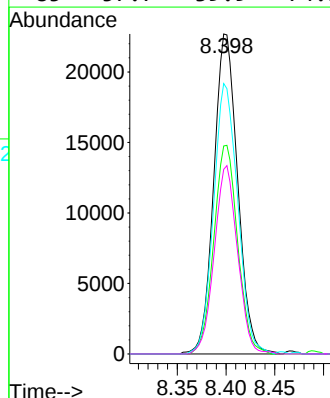
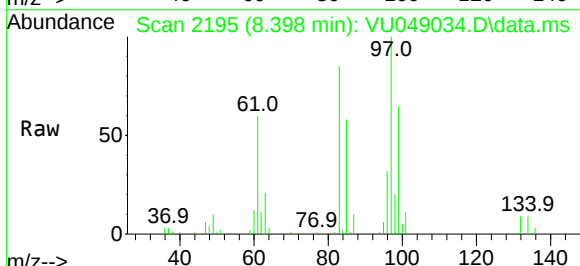
Ion Ratio Lower Upper

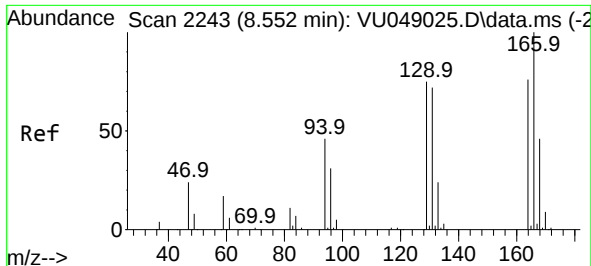
97 100

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# 21

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

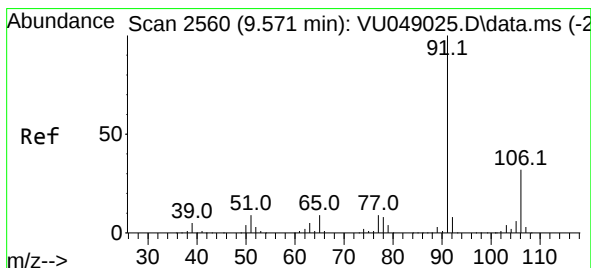
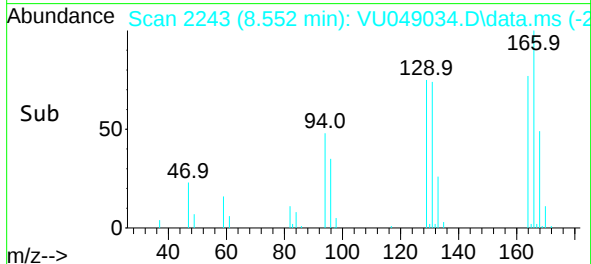
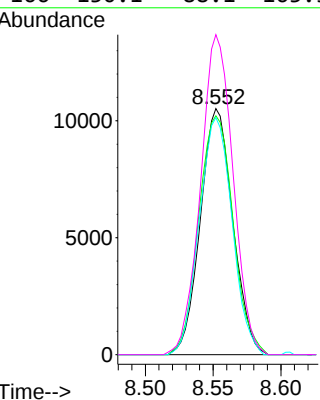
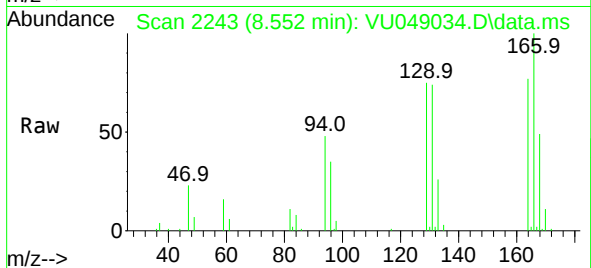
Ion Ratio Lower Upper

164 100

129 97.1 70.9 131.7

131 96.4 66.2 123.0

166 130.1 88.1 163.5



#52

Ethylbenzene

Concen: 36.790 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. 0.000 min

Lab File: VU049034.D

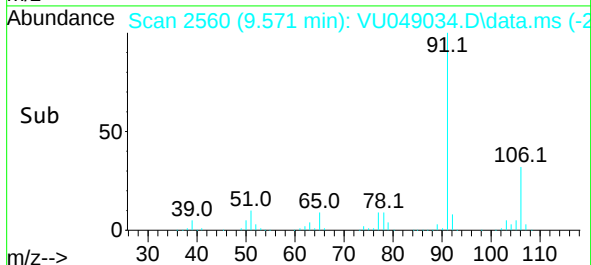
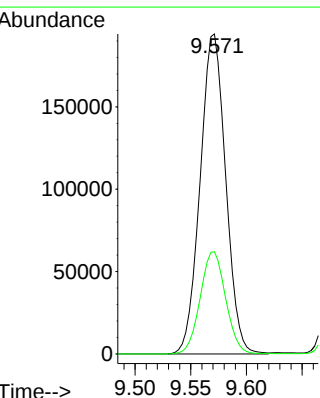
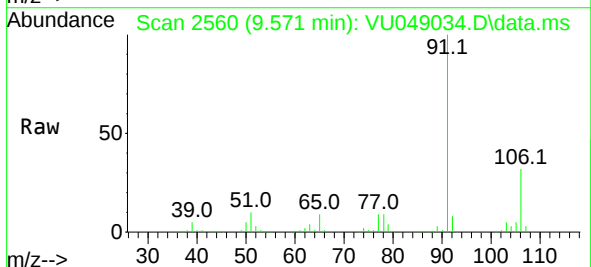
Acq: 11 Jun 2022 06:23

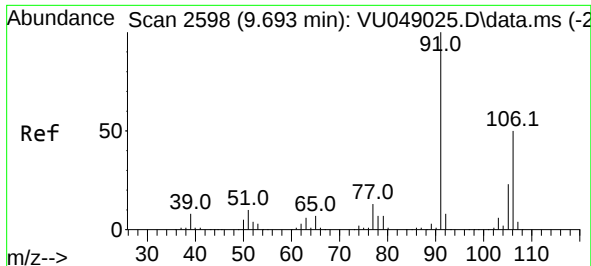
Tgt Ion: 91 Resp: 309999

Ion Ratio Lower Upper

91 100

106 32.0 21.6 40.2

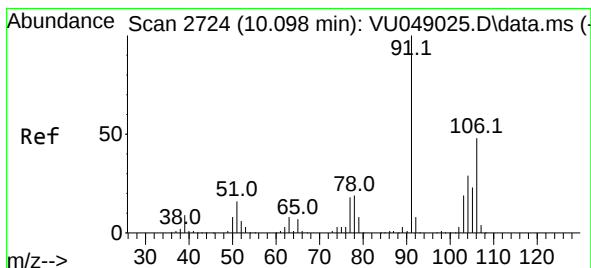
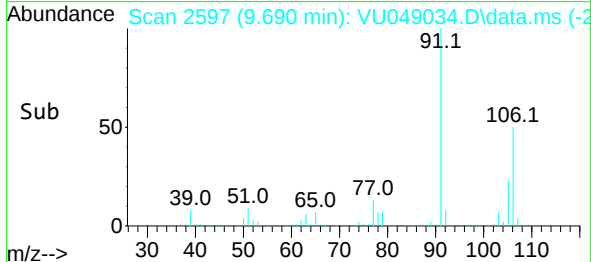
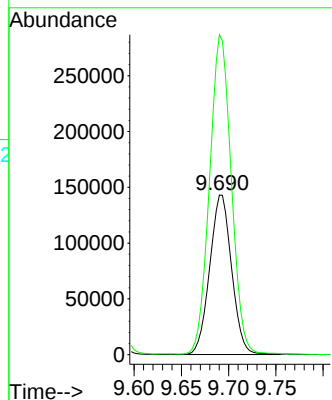
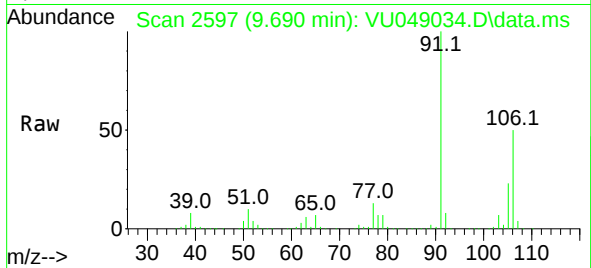




#53
m,p-Xylene
Concen: 69.470 ug/L
RT: 9.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

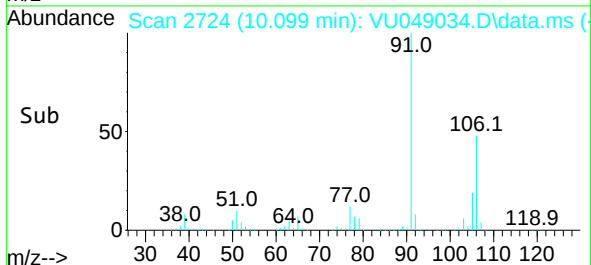
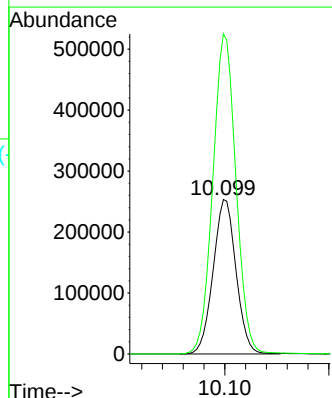
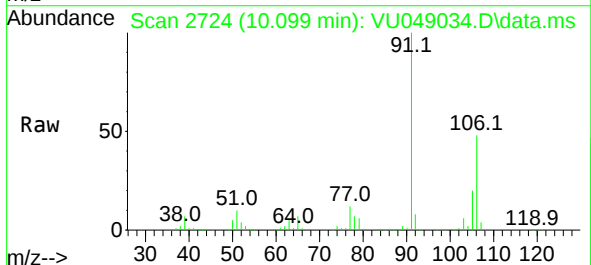
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

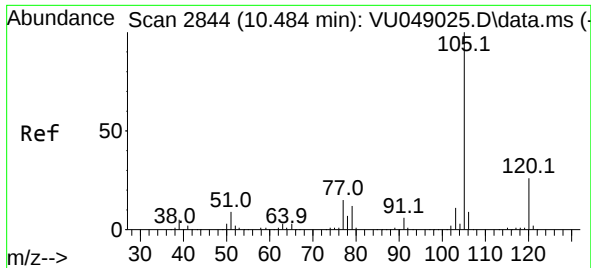
Tgt Ion:106 Resp: 229876
Ion Ratio Lower Upper
106 100
91 200.3 137.4 255.2



#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

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

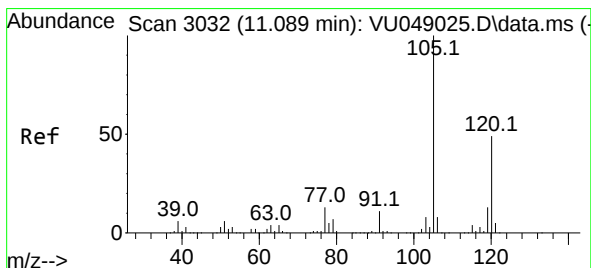
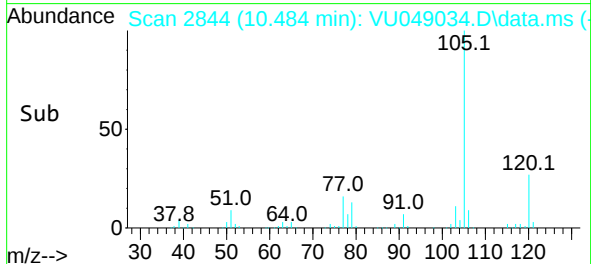
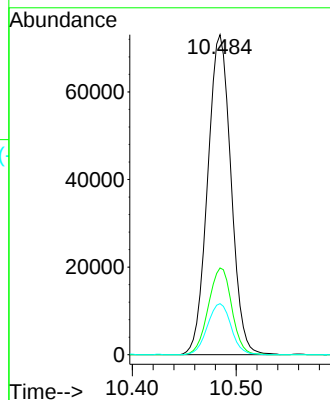
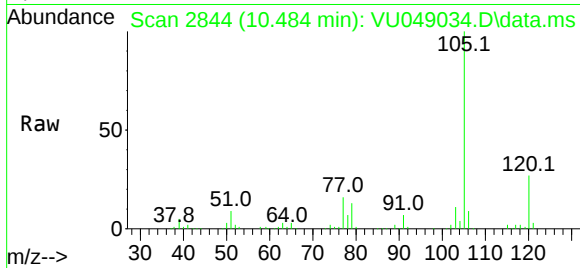




#61
Isopropylbenzene
Concen: 13.752 ug/L
RT: 10.484 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

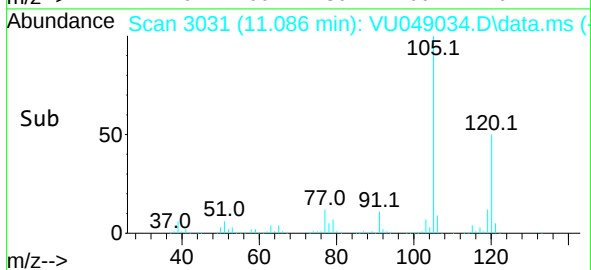
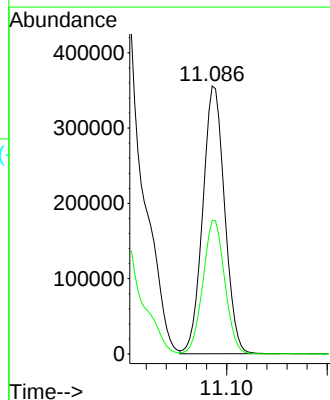
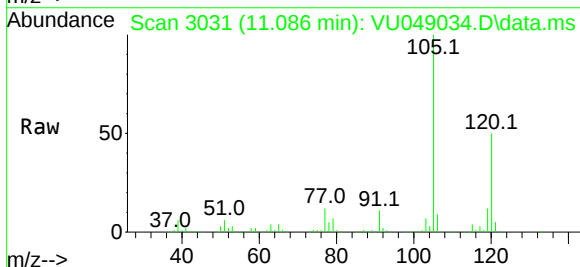
Instrument :
MSVOA_U
ClientSampleId :
EXYX4

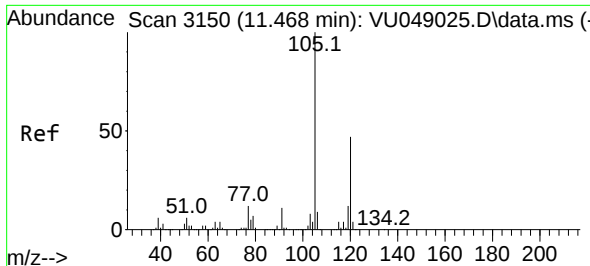
Tgt Ion:105 Resp: 113991
Ion Ratio Lower Upper
105 100
120 27.2 21.1 31.7
77 16.2 12.7 19.1



#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

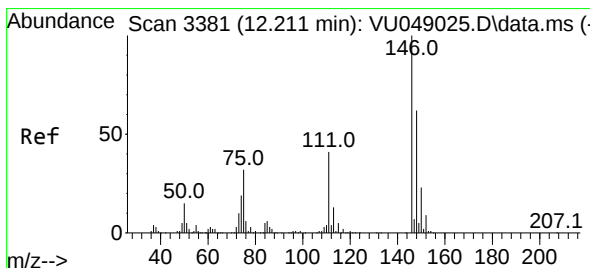
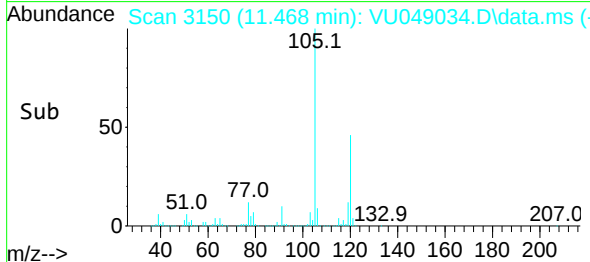
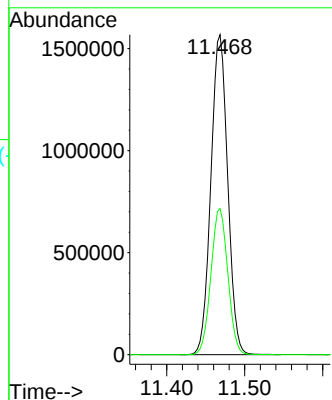
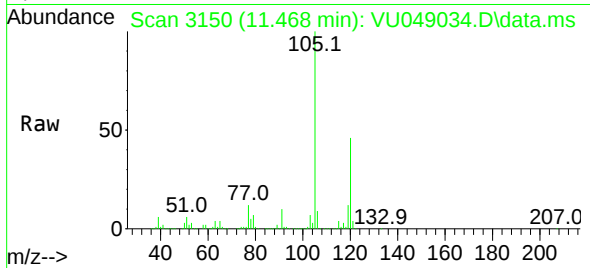




#63
1,2,4-Trimethylbenzene
Concen: 416.127 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU049034.D
Acq: 11 Jun 2022 06:23

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

