

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030822\
 Data File : VU047394.D
 Acq On : 08 Mar 2022 16:14
 Operator : SY/MD
 Sample : N1840-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFY21

Quant Time: Mar 09 03:04:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 09 02:01:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.279	114	166814	5.000	ug/L	0.03
28) Chlorobenzene-d5	9.423	117	161637	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	91453	5.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.607	65	38168	3.224	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.400%
7) Chloroethane-d5	1.925	69	41068	4.158	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.200%
11) 1,1-Dichloroethene-d2	2.575	65	17342	3.468	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.400%
20) 2-Butanone-d5	4.735	46	164209	42.247	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.500%
24) Chloroform-d	5.076	84	92540	4.230	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
26) 1,2-Dichloroethane-d4	5.726	65	54548	4.443	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.800%
32) Benzene-d6	5.742	84	172685	3.793	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.800%
36) 1,2-Dichloropropane-d6	6.716	67	60922	4.297	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.000%
41) Toluene-d8	7.912	98	148240	3.449	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.000%#
43) trans-1,3-Dichloroprop...	8.192	79	23941	3.843	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.800%
46) 2-Hexanone-d5	8.652	63	172886	48.755	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.520%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	64095	4.437	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	12.195	152	73223	4.086	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.800%

Target Compounds

						Qvalue
5) Vinyl chloride	1.613	62	2362	0.214	ug/L #	69
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	426	0.053	ug/L #	21
12) 1,1-Dichloroethene	2.584	96	4725	0.578	ug/L #	1
15) Methyl Acetate	2.964	43	1851	0.515	ug/L #	54
17) Methyl tert-butyl Ether	3.395	73	393017	17.951	ug/L	98
18) trans-1,2-Dichloroethene	3.362	96	976	0.110	ug/L #	72
19) 1,1-Dichloroethane	3.874	63	5603	0.379	ug/L	93
21) 2-Butanone	4.809	43	8100	2.716	ug/L	91
22) cis-1,2-Dichloroethene	4.674	96	209011	21.622	ug/L	94
27) 1,2-Dichloroethane	5.790	62	2205	0.202	ug/L #	73
29) 1,1,1-Trichloroethane	5.324	97	1381	0.102	ug/L #	89
33) Benzene	5.790	78	227442	6.235	ug/L	100
34) Trichloroethene	6.565	95	120752	12.594	ug/L	93
35) Methylcyclohexane	6.719	83	14313	0.974	ug/L #	50
37) 1,2-Dichloropropane	6.719	63	6370	0.704	ug/L #	88
39) cis-1,3-Dichloropropene	7.584	75	1494	0.104	ug/L #	34
42) Toluene	7.983	91	18423	0.466	ug/L	99
45) 1,1,2-Trichloroethane	8.562	97	1032	0.132	ug/L #	1
47) Tetrachloroethene	8.562	164	142951	17.502	ug/L	91

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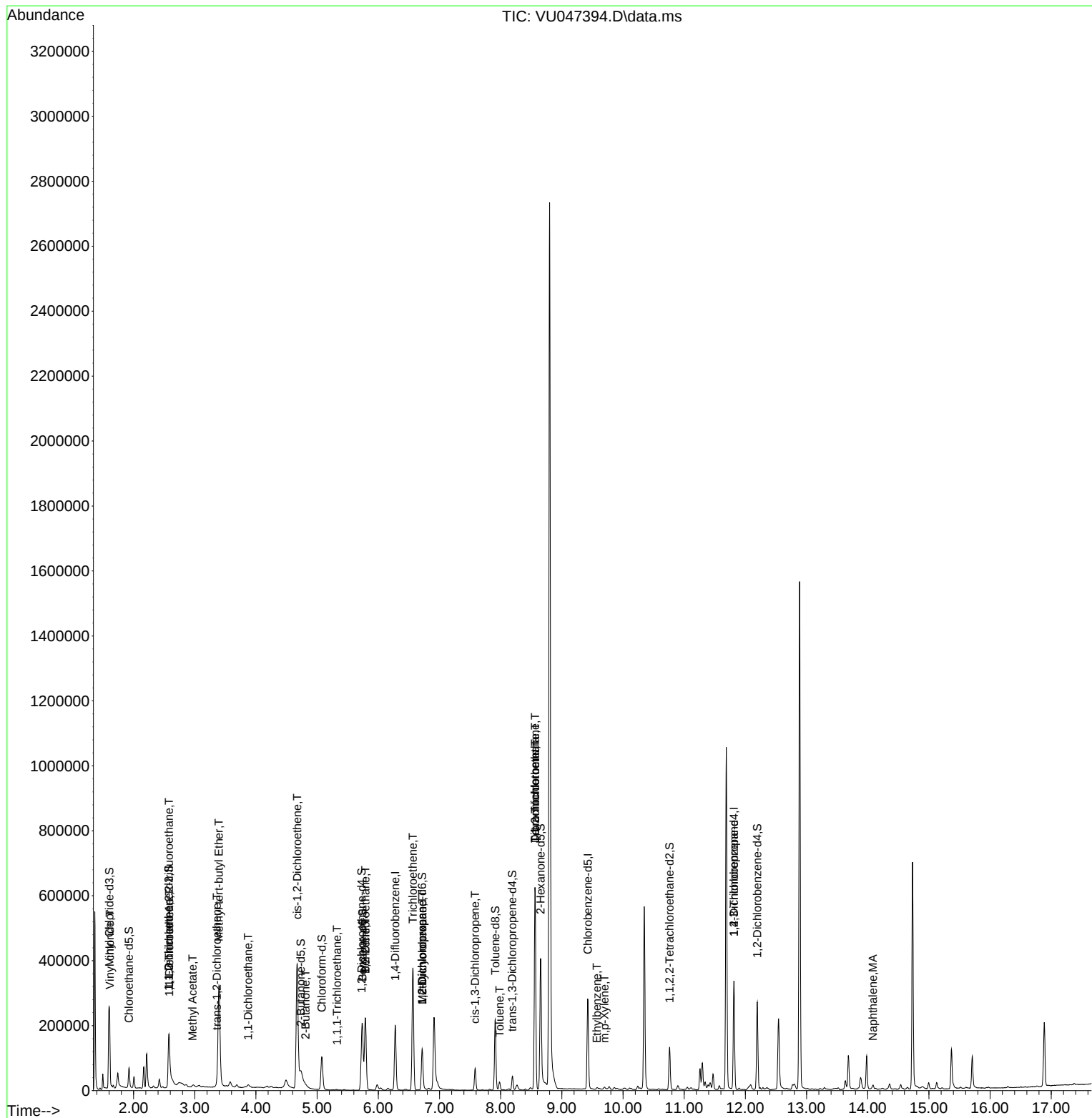
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.562	129	131650	14.300	ug/L #	10
52) Ethylbenzene	9.574	91	3934	0.093	ug/L	94
53) m,p-Xylene	9.697	106	2114	0.126	ug/L	98
61) 1,2,3-Trichloropropane	11.812	75	9688	1.276	ug/L #	61
71) Naphthalene	14.086	128	8413	0.254	ug/L #	96

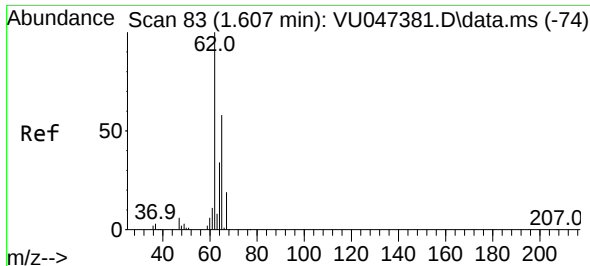
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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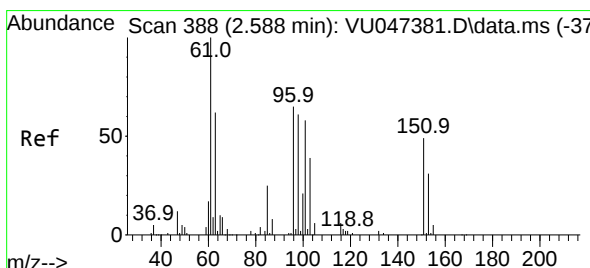
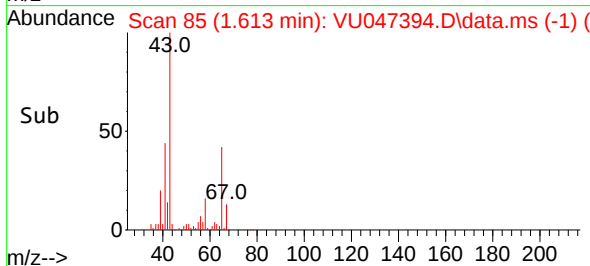
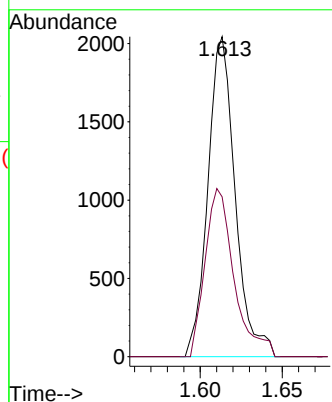
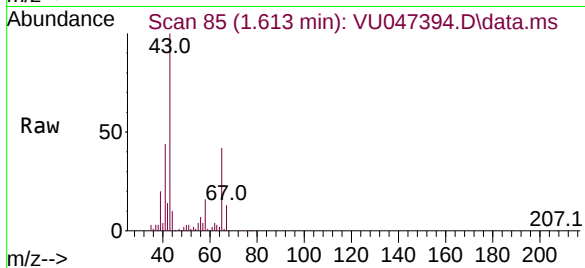




#5
 Vinyl chloride
 Concen: 0.214 ug/L
 RT: 1.613 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VU047394.D
 Acq: 08 Mar 2022 16:14

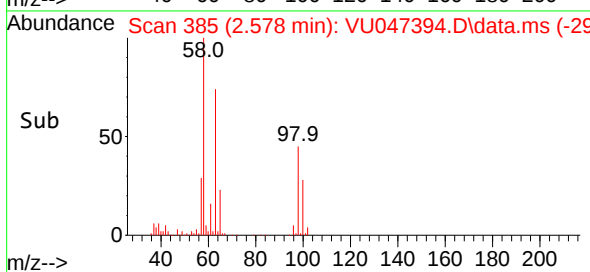
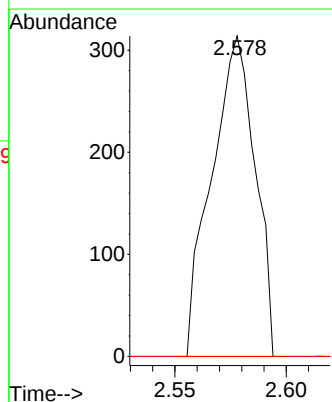
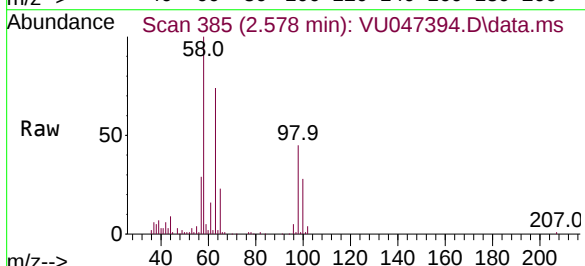
Instrument :
 MSVOA_U
 ClientSampleId :
 BFY21

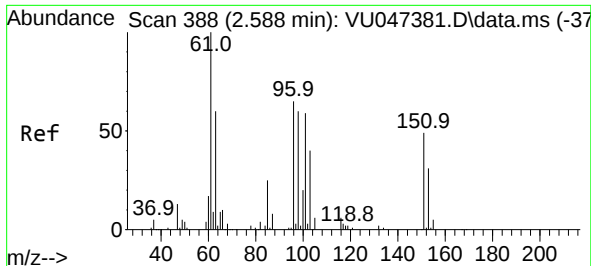
Tgt Ion: 62 Resp: 2362
 Ion Ratio Lower Upper
 62 100
 64 50.0 22.9 42.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.053 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. -0.010 min
 Lab File: VU047394.D
 Acq: 08 Mar 2022 16:14

Tgt Ion: 101 Resp: 426
 Ion Ratio Lower Upper
 101 100
 85 0.0 34.6 51.8#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 0.578 ug/L

RT: 2.584 min Scan# 388

Delta R.T. -0.003 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Instrument :

MSVOA_U

ClientSampleId :

BFY21

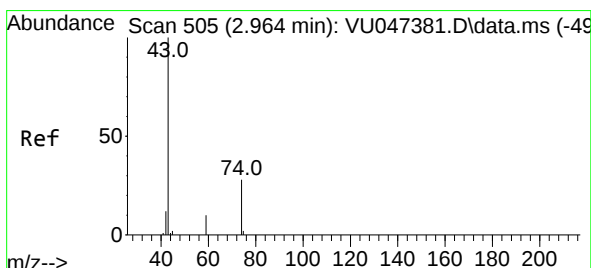
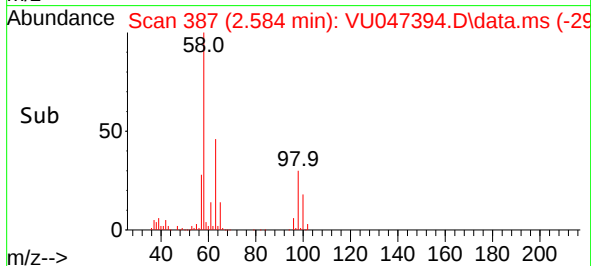
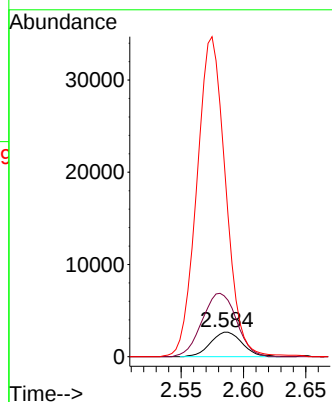
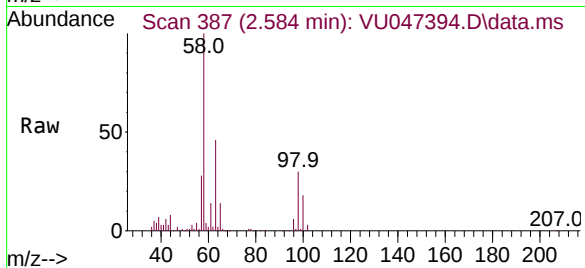
Tgt Ion: 96 Resp: 4725

Ion Ratio Lower Upper

96 100

61 249.2 124.7 231.5#

63 806.3 105.2 195.4#



#15

Methyl Acetate

Concen: 0.515 ug/L

RT: 2.964 min Scan# 505

Delta R.T. 0.000 min

Lab File: VU047394.D

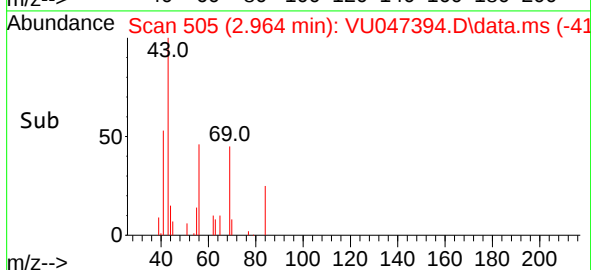
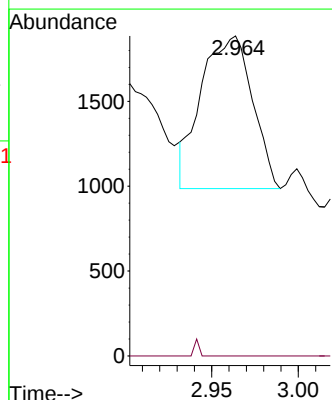
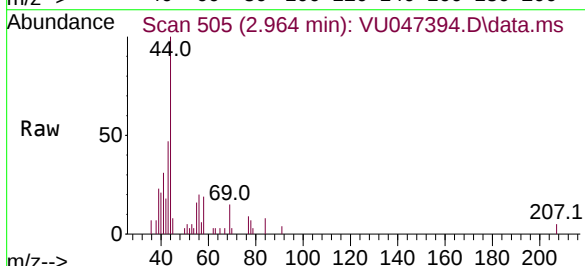
Acq: 08 Mar 2022 16:14

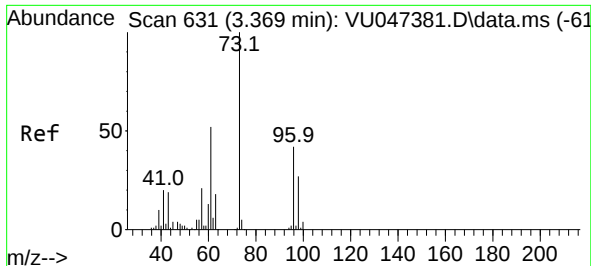
Tgt Ion: 43 Resp: 1851

Ion Ratio Lower Upper

43 100

74 1.0 19.1 28.7#





#17

Methyl tert-butyl Ether

Concen: 17.951 ug/L

RT: 3.395 min Scan# 61

Delta R.T. 0.026 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

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ClientSampleId :

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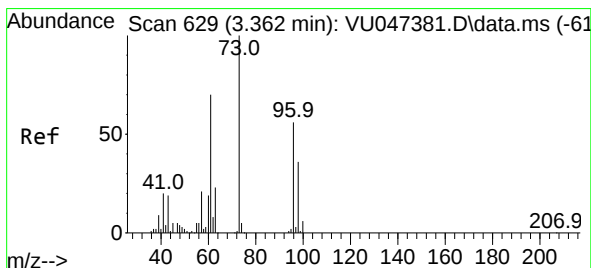
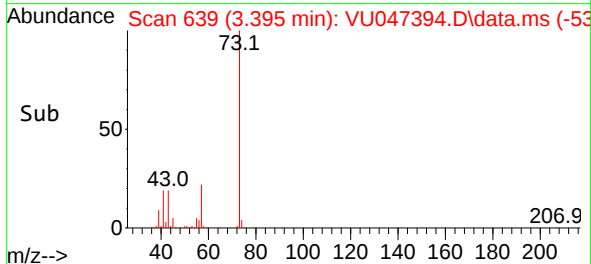
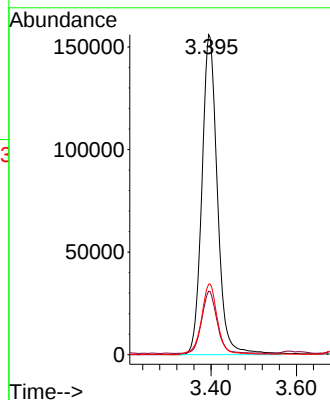
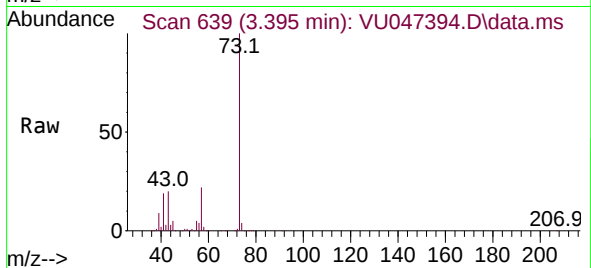
Tgt Ion: 73 Resp: 393017

Ion Ratio Lower Upper

73 100

43 19.1 14.8 22.2

57 23.0 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 0.110 ug/L

RT: 3.362 min Scan# 629

Delta R.T. 0.000 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

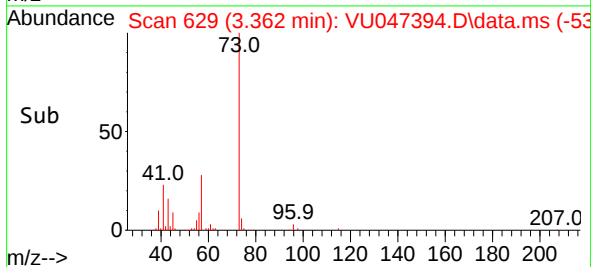
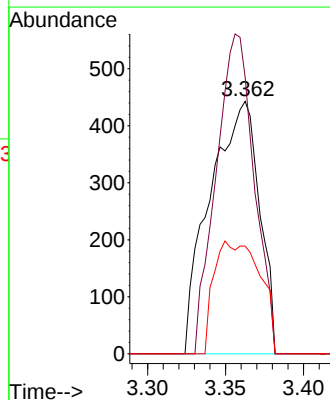
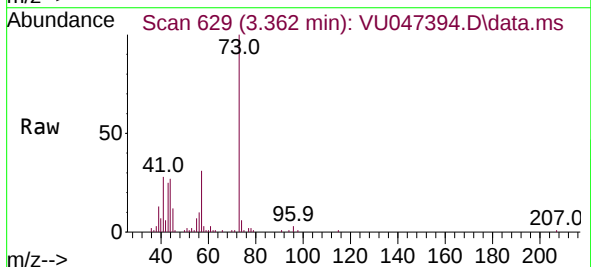
Tgt Ion: 96 Resp: 976

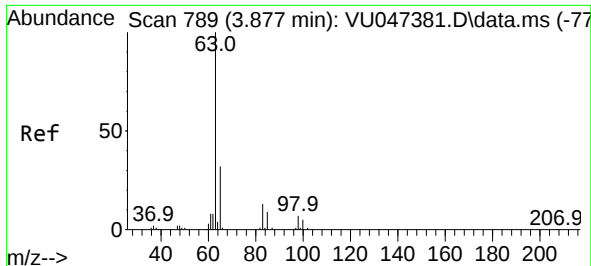
Ion Ratio Lower Upper

96 100

61 109.5 100.8 187.2

98 42.7 45.1 83.7#





#19

1,1-Dichloroethane

Concen: 0.379 ug/L

RT: 3.874 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU047394.D

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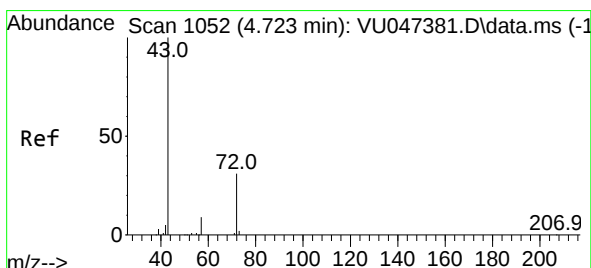
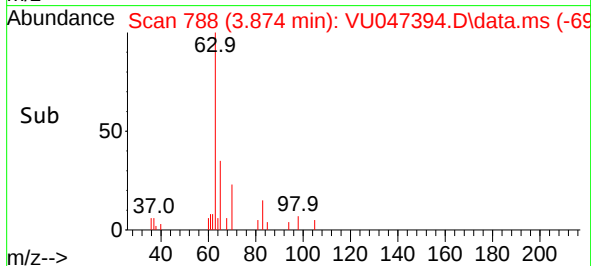
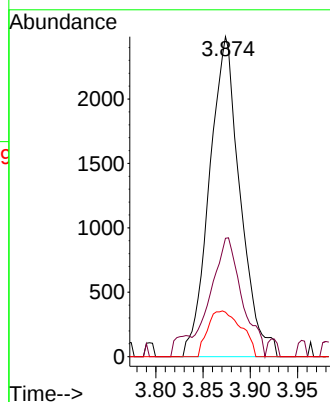
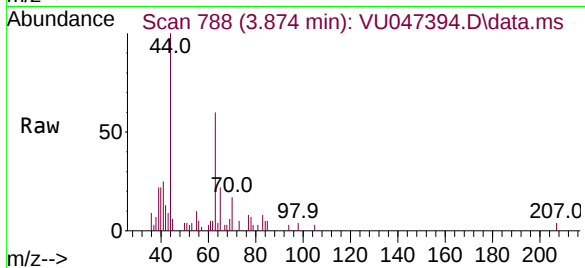
Tgt Ion: 63 Resp: 5603

Ion Ratio Lower Upper

63 100

65 37.0 22.3 41.5

83 13.9 9.6 17.8



#21

2-Butanone

Concen: 2.716 ug/L

RT: 4.809 min Scan# 1079

Delta R.T. 0.087 min

Lab File: VU047394.D

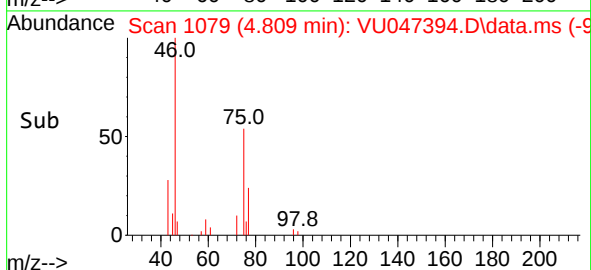
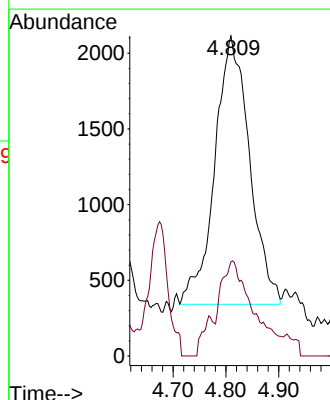
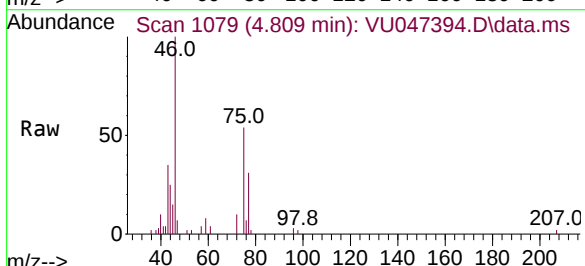
Acq: 08 Mar 2022 16:14

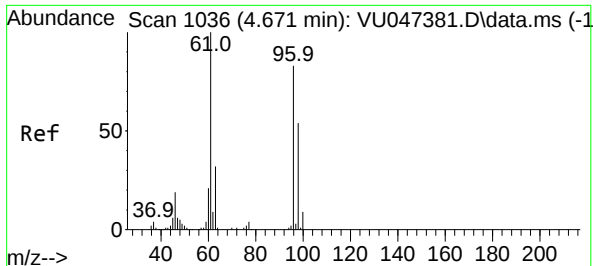
Tgt Ion: 43 Resp: 8100

Ion Ratio Lower Upper

43 100

72 33.1 14.1 42.3





#22

cis-1,2-Dichloroethene

Concen: 21.622 ug/L

RT: 4.674 min Scan# 1036

Delta R.T. 0.003 min

Lab File: VU047394.D

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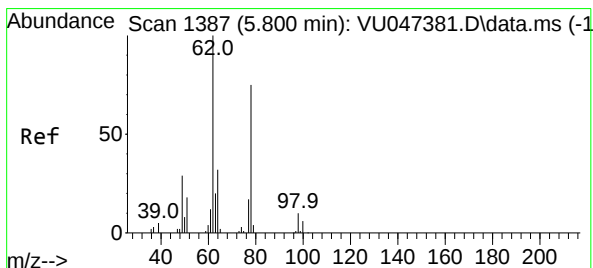
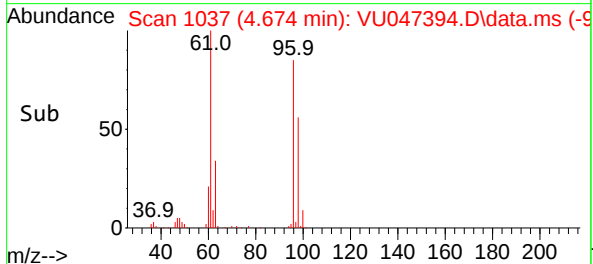
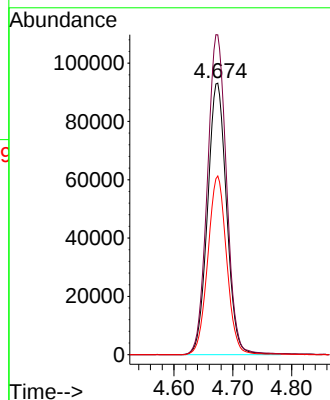
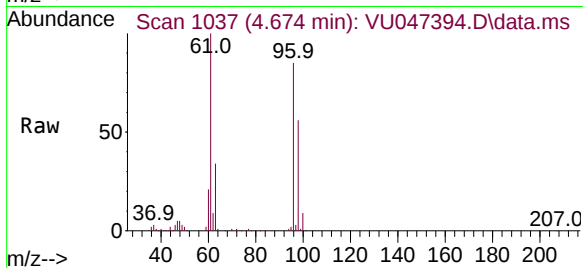
Tgt Ion: 96 Resp: 209011

Ion Ratio Lower Upper

96 100

61 117.8 88.5 164.3

98 65.8 44.4 82.5



#27

1,2-Dichloroethane

Concen: 0.202 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.010 min

Lab File: VU047394.D

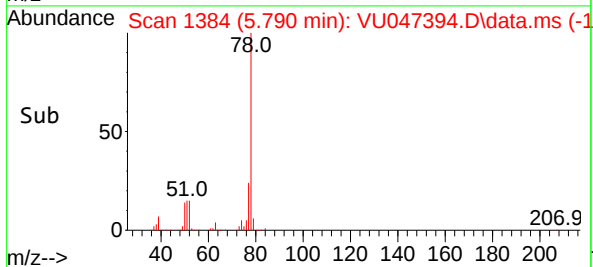
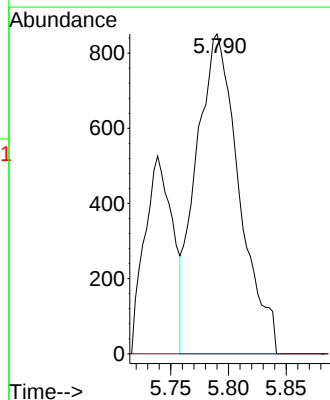
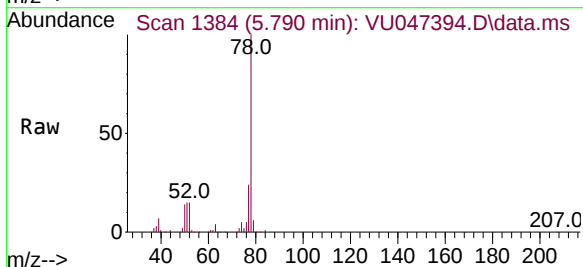
Acq: 08 Mar 2022 16:14

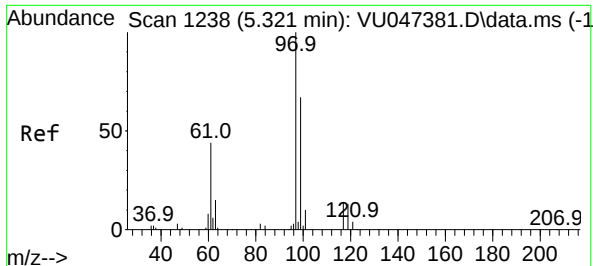
Tgt Ion: 62 Resp: 2205

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.8#





#29

1,1,1-Trichloroethane

Concen: 0.102 ug/L

RT: 5.324 min Scan# 1381

Delta R.T. 0.003 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

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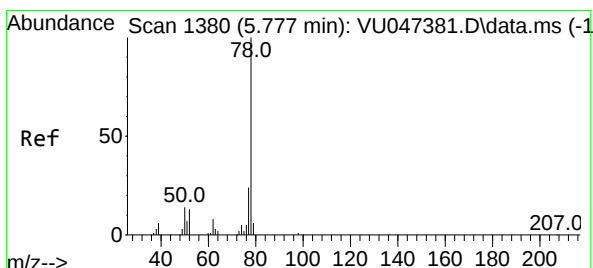
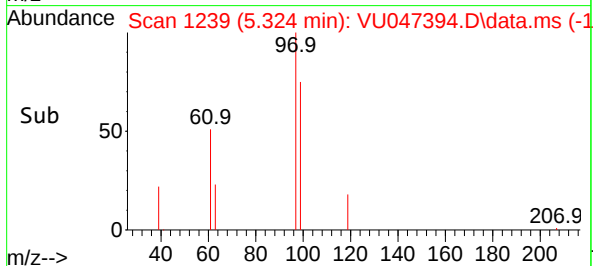
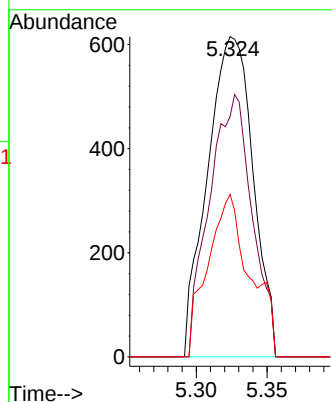
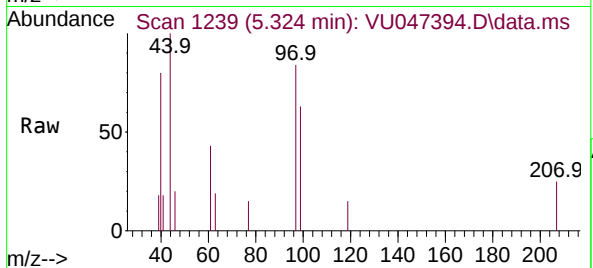
Tgt Ion: 97 Resp: 1381

Ion Ratio Lower Upper

97 100

99 77.0 51.3 76.9#

61 47.1 36.1 54.1



#33

Benzene

Concen: 6.235 ug/L

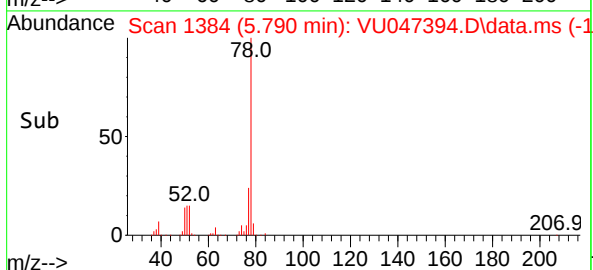
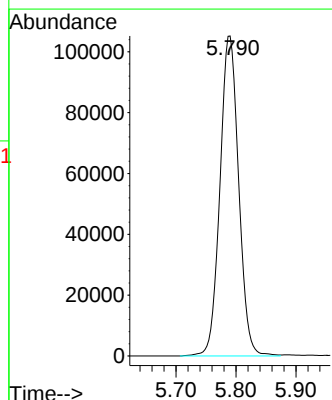
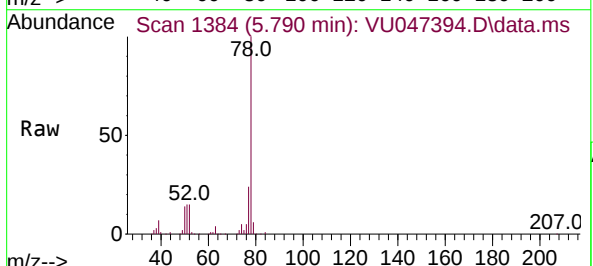
RT: 5.790 min Scan# 1384

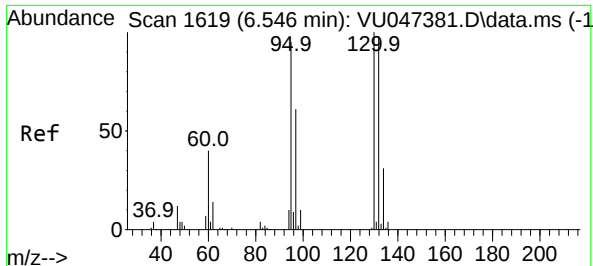
Delta R.T. 0.013 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Tgt Ion: 78 Resp: 227442





#34

Trichloroethene

Concen: 12.594 ug/L

RT: 6.565 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Instrument :

MSVOA_U

ClientSampleId :

BFY21

Tgt Ion: 95 Resp: 120752

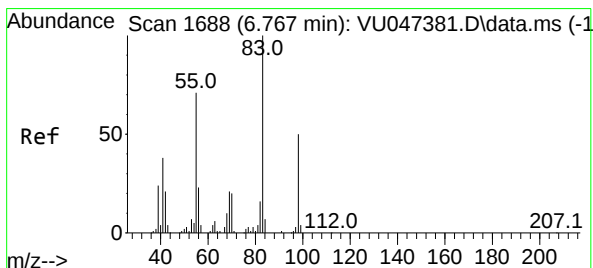
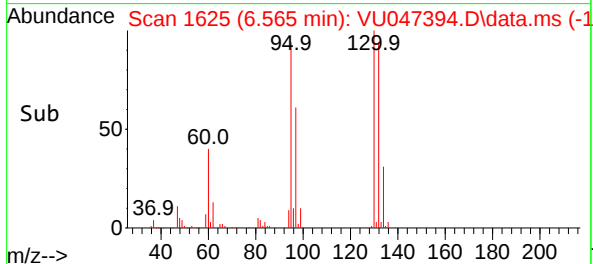
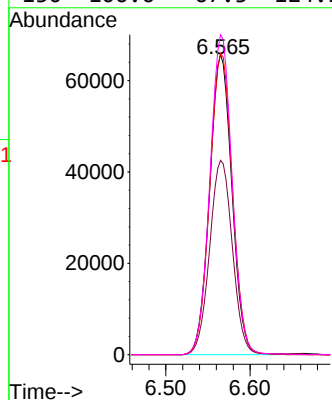
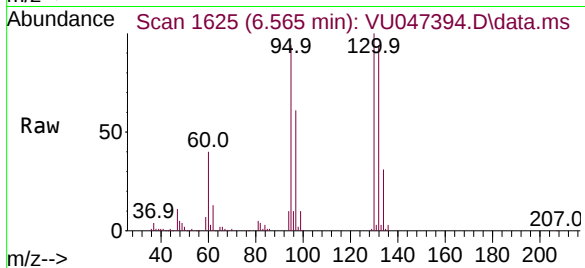
Ion Ratio Lower Upper

95 100

97 64.7 46.5 86.5

132 100.3 65.1 120.9

130 106.6 67.3 124.9



#35

Methylcyclohexane

Concen: 0.974 ug/L

RT: 6.719 min Scan# 1673

Delta R.T. -0.048 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

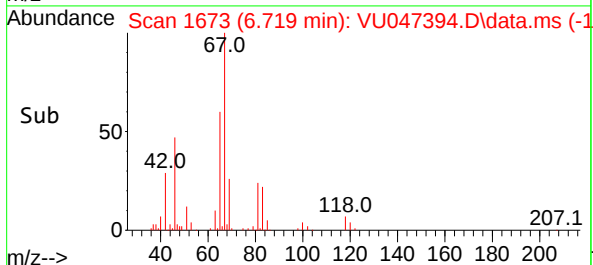
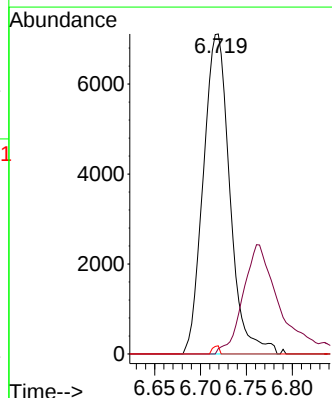
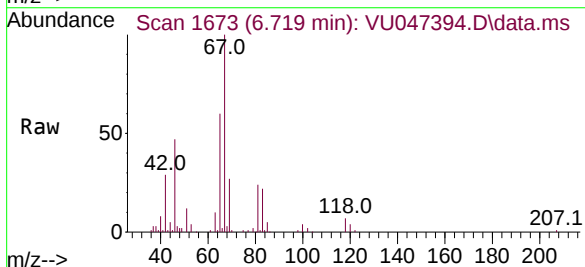
Tgt Ion: 83 Resp: 14313

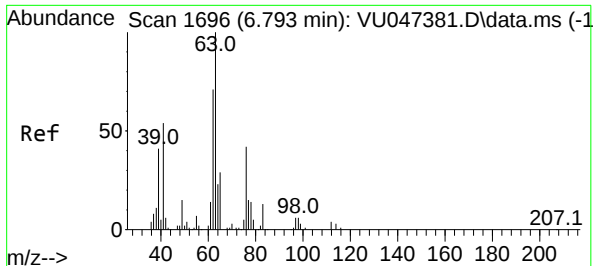
Ion Ratio Lower Upper

83 100

55 45.9 61.9 92.9#

98 0.6 39.0 58.6#





#37

1,2-Dichloropropane

Concen: 0.704 ug/L

RT: 6.719 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Instrument :

MSVOA_U

ClientSampleId :

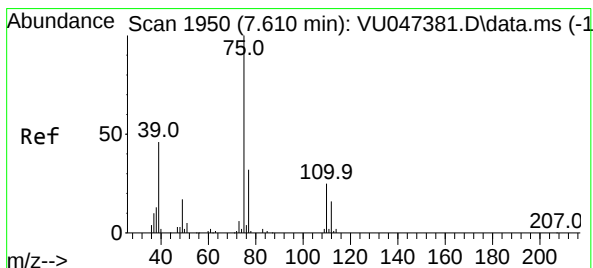
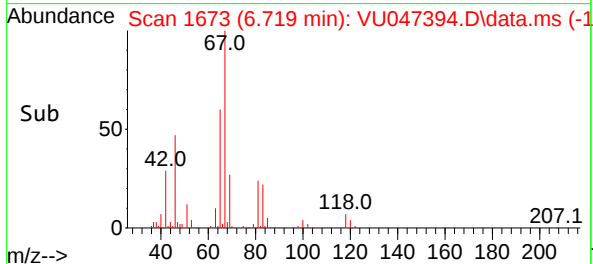
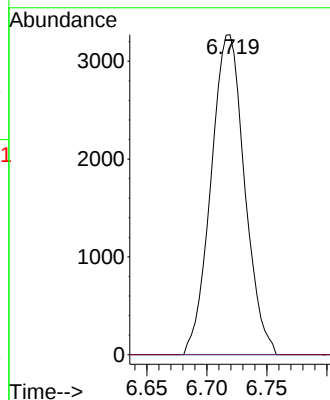
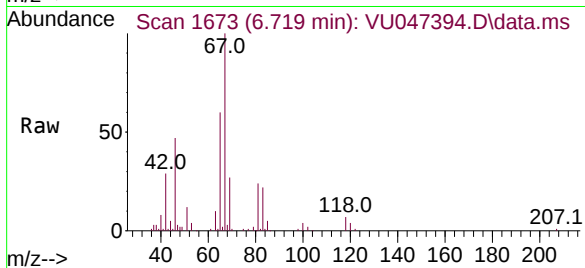
BFY21

Tgt Ion: 63 Resp: 6370

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.104 ug/L

RT: 7.584 min Scan# 1942

Delta R.T. -0.026 min

Lab File: VU047394.D

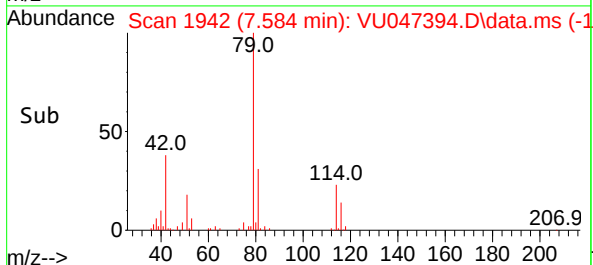
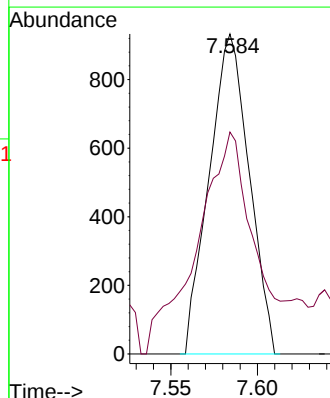
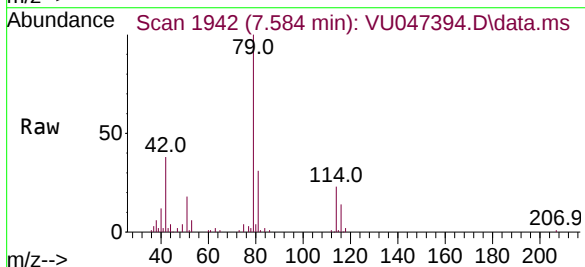
Acq: 08 Mar 2022 16:14

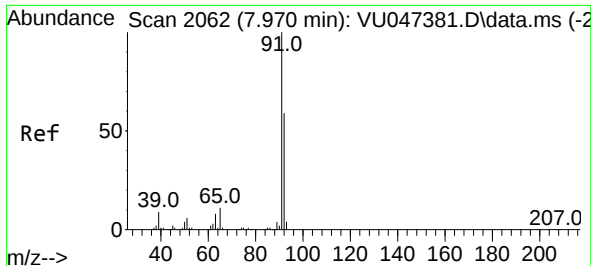
Tgt Ion: 75 Resp: 1494

Ion Ratio Lower Upper

75 100

77 69.3 22.5 41.9#





#42

Toluene

Concen: 0.466 ug/L

RT: 7.983 min Scan# 2062

Delta R.T. 0.013 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Instrument :

MSVOA_U

ClientSampleId :

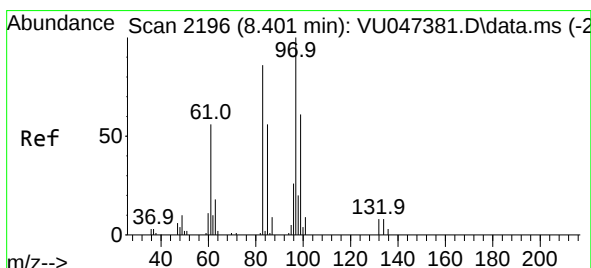
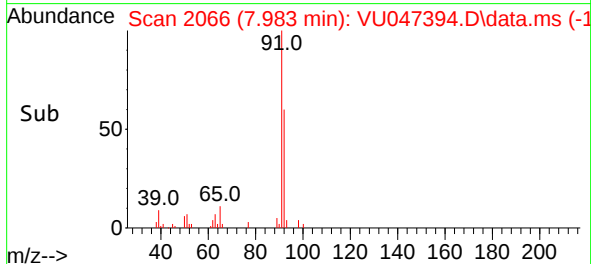
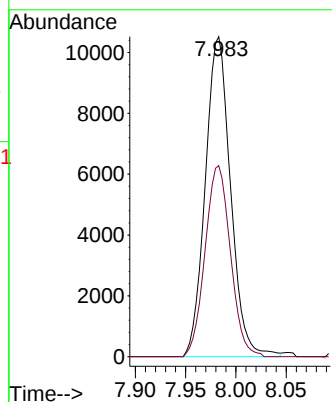
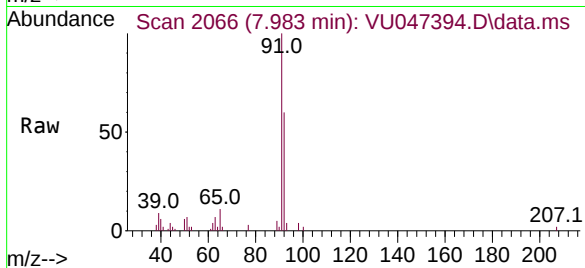
BFY21

Tgt Ion: 91 Resp: 18423

Ion Ratio Lower Upper

91 100

92 59.7 41.3 76.7



#45

1,1,2-Trichloroethane

Concen: 0.132 ug/L

RT: 8.562 min Scan# 2246

Delta R.T. 0.161 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Tgt Ion: 97 Resp: 1032

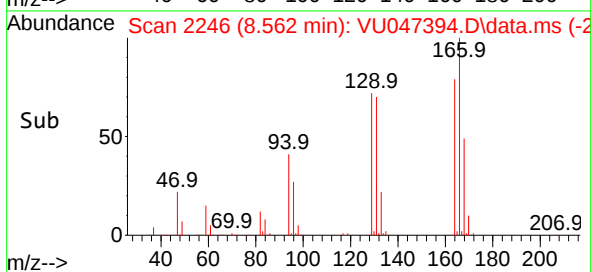
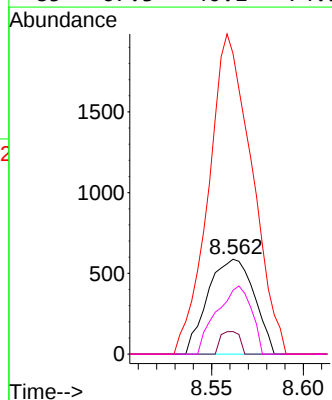
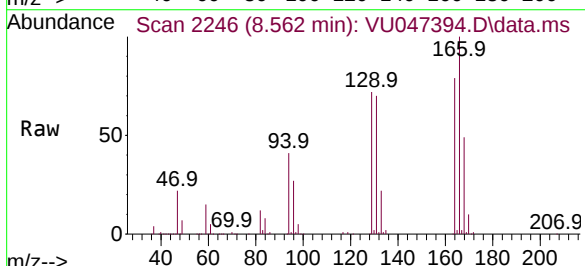
Ion Ratio Lower Upper

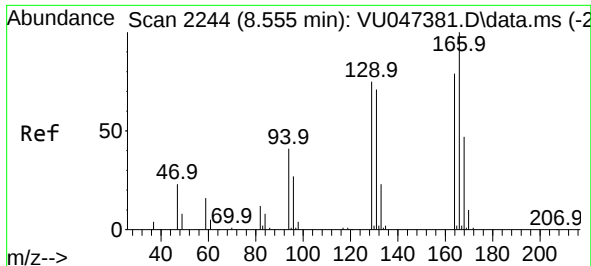
97 100

99 23.7 42.3 78.5#

83 317.2 62.0 115.2#

85 67.3 40.1 74.5





#47

Tetrachloroethene

Concen: 17.502 ug/L

RT: 8.562 min Scan# 2246

Delta R.T. 0.006 min

Lab File: VU047394.D

Acq: 08 Mar 2022 16:14

Instrument :

MSVOA_U

ClientSampleId :

BFY21

Tgt Ion:164 Resp: 142951

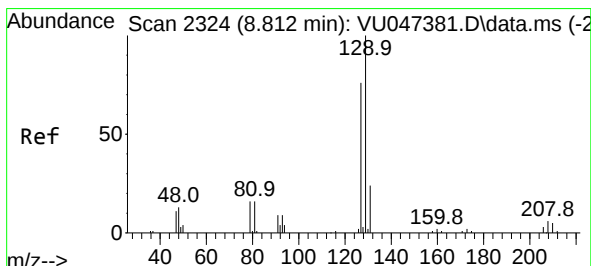
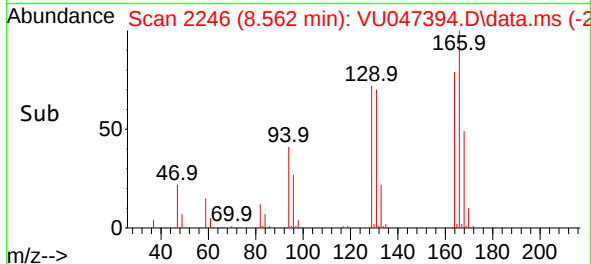
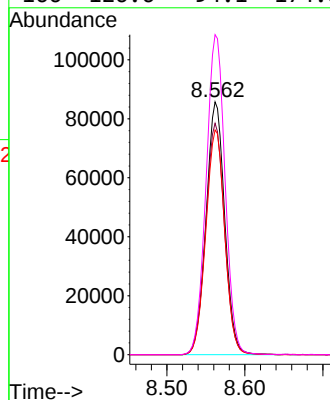
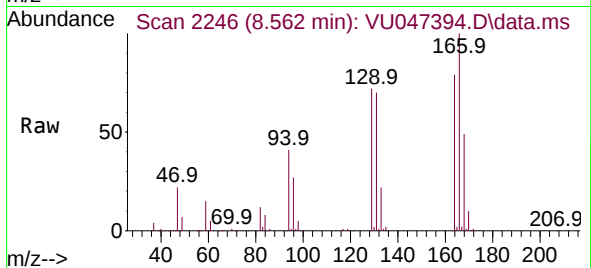
Ion Ratio Lower Upper

164 100

129 91.6 71.8 133.4

131 88.9 68.5 127.3

166 126.6 94.1 174.8



#49

Dibromochloromethane

Concen: 14.300 ug/L

RT: 8.562 min Scan# 2246

Delta R.T. -0.251 min

Lab File: VU047394.D

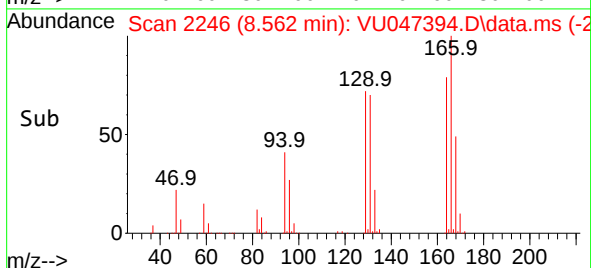
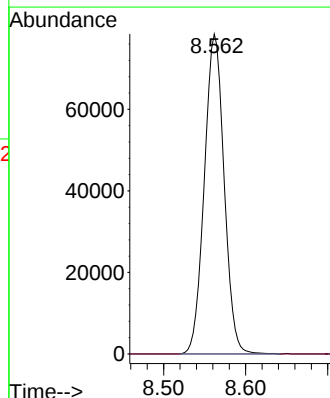
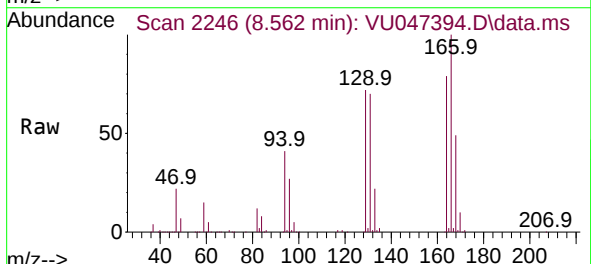
Acq: 08 Mar 2022 16:14

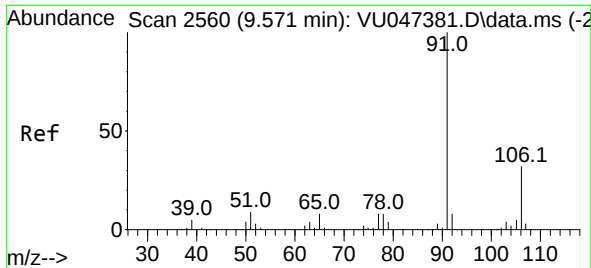
Tgt Ion:129 Resp: 131650

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#

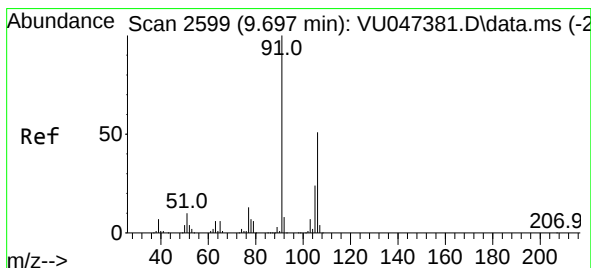
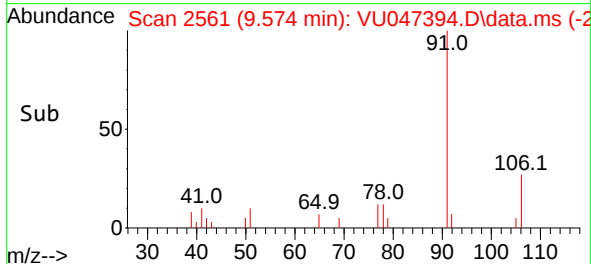
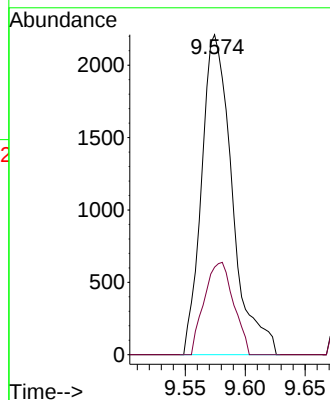
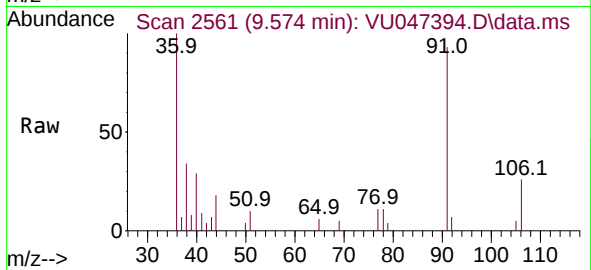




#52
Ethylbenzene
Concen: 0.093 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. 0.003 min
Lab File: VU047394.D
Acq: 08 Mar 2022 16:14

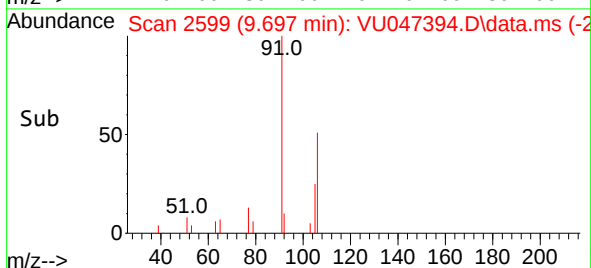
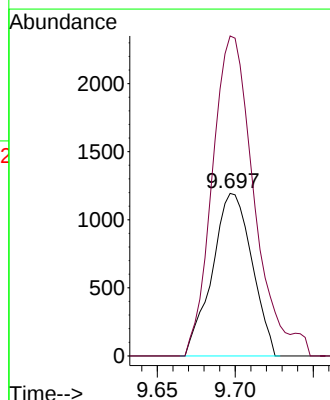
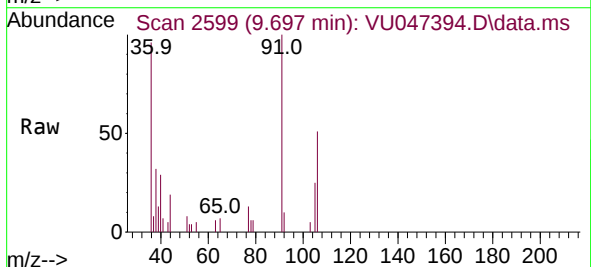
Instrument :
MSVOA_U
ClientSampleId :
BFY21

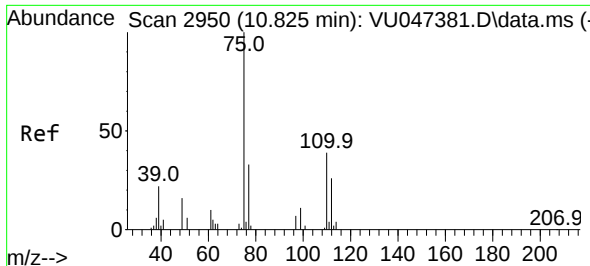
Tgt Ion: 91 Resp: 3934
Ion Ratio Lower Upper
91 100
106 27.4 21.5 39.9



#53
m,p-Xylene
Concen: 0.126 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU047394.D
Acq: 08 Mar 2022 16:14

Tgt Ion: 106 Resp: 2114
Ion Ratio Lower Upper
106 100
91 196.8 139.4 259.0

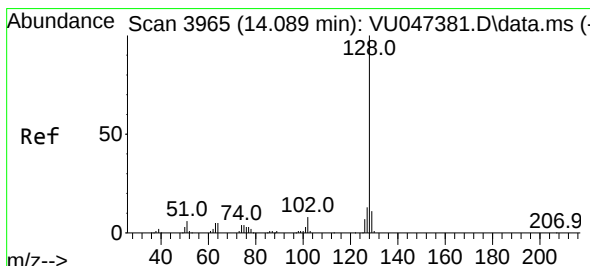
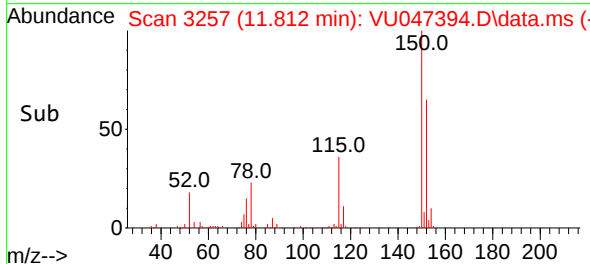
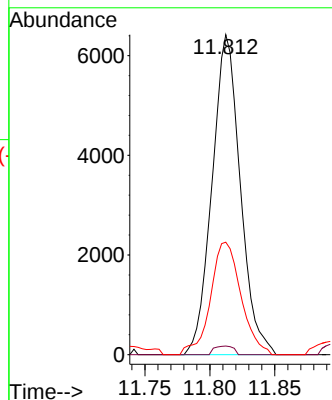
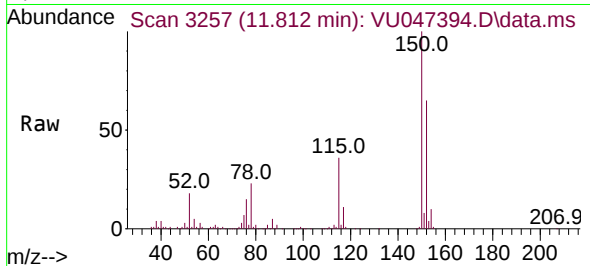




#61
1,2,3-Trichloropropane
Concen: 1.276 ug/L
RT: 11.812 min Scan# 31
Delta R.T. 0.987 min
Lab File: VU047394.D
Acq: 08 Mar 2022 16:14

Instrument :
MSVOA_U
ClientSampleId :
BFY21

Tgt Ion: 75 Resp: 9688
Ion Ratio Lower Upper
75 100
110 0.0 29.9 44.9#
77 37.9 25.5 38.3



#71
Naphthalene
Concen: 0.254 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU047394.D
Acq: 08 Mar 2022 16:14

Tgt Ion: 128 Resp: 8413
Ion Ratio Lower Upper
128 100
129 12.7 8.4 12.6#
127 13.5 10.2 15.2

