

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U030722\
 Data File : U047360.D
 Acq On : 07 Mar 2022 12:22
 Operator : SY/MD
 Sample : N1773-11
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFY18

Quant Time: Mar 07 13:10:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR030422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 04 23:20:39 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.292	114	177594	5.000	ug/L	0.04
28) Chlorobenzene-d5	9.430	117	172542	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.815	152	96006	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.623	65	55886	4.434	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.600%
7) Chloroethane-d5	1.944	69	52196	4.964	ug/L	0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.200%
11) 1,1-Dichloroethene-d2	2.588	65	26317	4.944	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.800%
20) 2-Butanone-d5	4.745	46	206838	49.984	ug/L	0.10
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.960%
24) Chloroform-d	5.089	84	108463	4.657	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
26) 1,2-Dichloroethane-d4	5.745	65	60745	4.648	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.000%
32) Benzene-d6	5.761	84	214976	4.424	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
36) 1,2-Dichloropropane-d6	6.732	67	71700	4.737	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.800%
41) Toluene-d8	7.919	98	194754	4.245	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.800%
43) trans-1,3-Dichloroprop...	8.198	79	29534	4.441	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.800%
46) 2-Hexanone-d5	8.658	63	170788	45.120	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.240%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	70147	4.549	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.000%
66) 1,2-Dichlorobenzene-d4	12.195	152	89972	4.782	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.629	62	20533	1.744	ug/L	93
10) 1,1,2-Trichloro-1,2,2-...	2.597	101	1385	0.162	ug/L #	28
12) 1,1-Dichloroethene	2.600	96	293901	33.763	ug/L #	65
13) Acetone	2.768	43	10313	6.174	ug/L	83
15) Methyl Acetate	2.977	43	999	0.261	ug/L #	59
17) Methyl tert-butyl Ether	3.417	73	32520	1.395	ug/L #	92
18) trans-1,2-Dichloroethene	3.375	96	3440	0.364	ug/L	91
19) 1,1-Dichloroethane	3.896	63	71552	4.546	ug/L	100
22) cis-1,2-Dichloroethene	4.690	96	530066	51.506	ug/L	99
27) 1,2-Dichloroethane	5.841	62	3957	0.341	ug/L	100
29) 1,1,1-Trichloroethane	5.337	97	114315	7.890	ug/L	97
31) Carbon tetrachloride	5.337	117	15665	1.252	ug/L	99
34) Trichloroethene	6.578	95	740571	72.360	ug/L	93
35) Methylcyclohexane	6.729	83	16672	1.062	ug/L #	29
37) 1,2-Dichloropropane	6.829	63	1284	0.133	ug/L #	88
39) cis-1,3-Dichloropropene	7.591	75	1978	0.129	ug/L #	26
42) Toluene	7.989	91	10235	0.243	ug/L	95
47) Tetrachloroethene	8.568	164	691114	79.268	ug/L	93
49) Dibromochloromethane	8.568	129	638693	64.991	ug/L #	10

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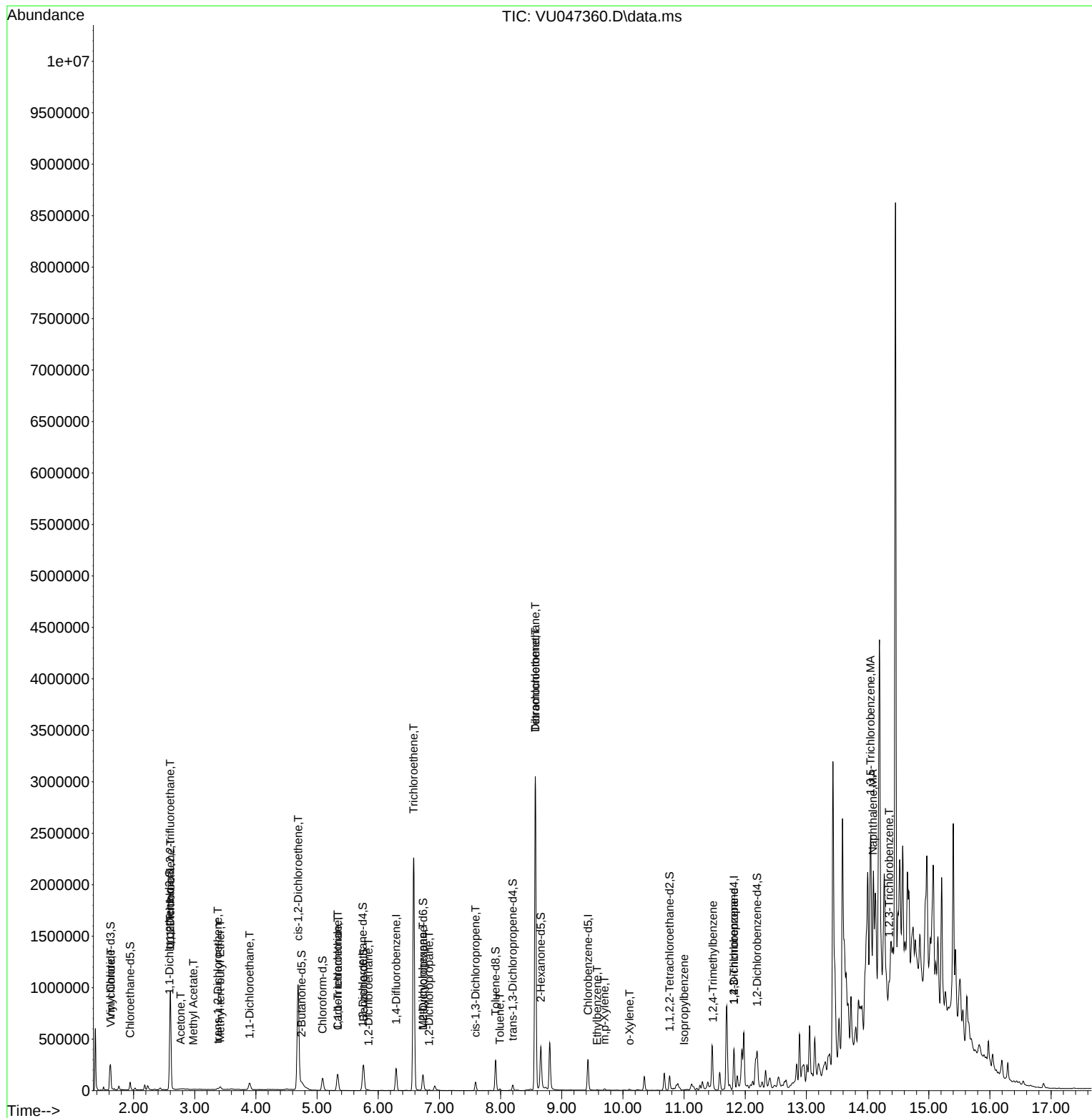
52) Ethylbenzene	9.578	91	3698	0.082	ug/L	97
53) m,p-Xylene	9.700	106	4015	0.224	ug/L	96
54) o-Xylene	10.108	106	2285	0.132	ug/L	95
60) Isopropylbenzene	11.002	105	3822	0.089	ug/L	95
61) 1,2,3-Trichloropropane	11.815	75	10339	1.297	ug/L #	63
63) 1,2,4-Trimethylbenzene	11.471	105	7585	0.203	ug/L	87
69) 1,3,5-Trichlorobenzene	14.047	180	4846	0.252	ug/L #	69
71) Naphthalene	14.089	128	6712	0.193	ug/L #	1
72) 1,2,3-Trichlorobenzene	14.352	180	24232	1.491	ug/L #	27

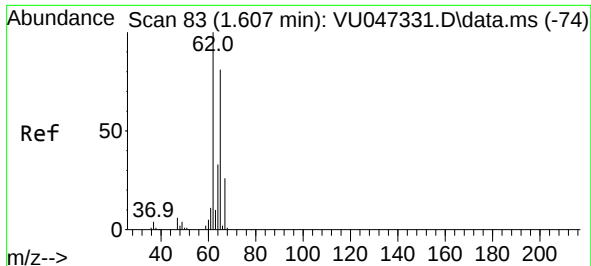
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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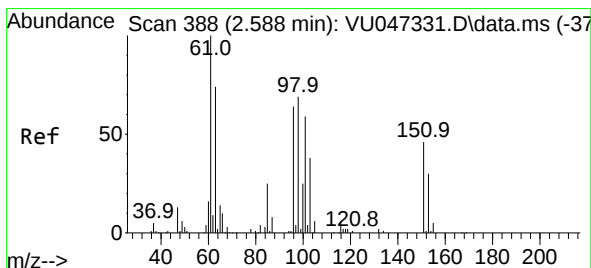
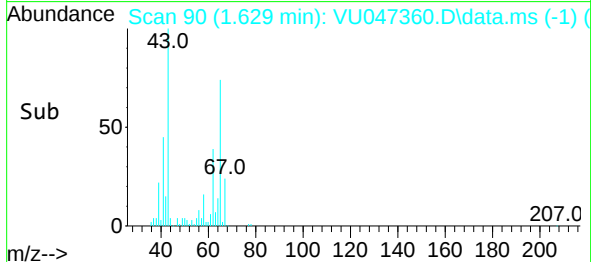
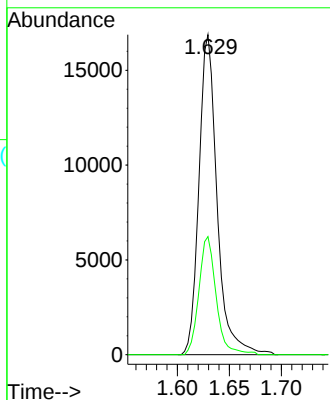
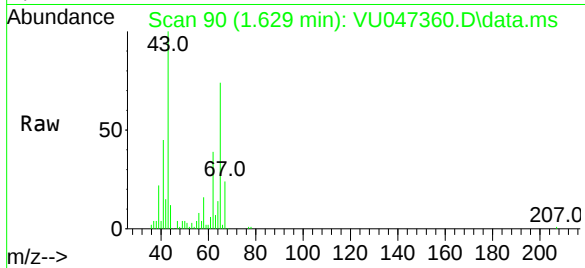




#5
 Vinyl chloride
 Concen: 1.744 ug/L
 RT: 1.629 min Scan# 90
 Delta R.T. 0.022 min
 Lab File: VU047360.D
 Acq: 07 Mar 2022 12:22

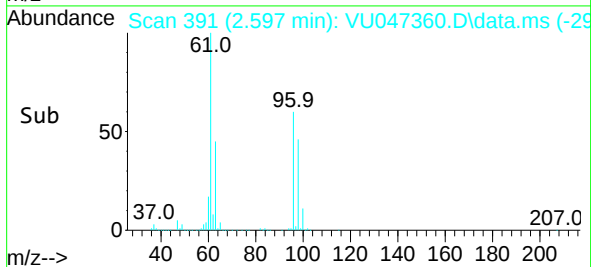
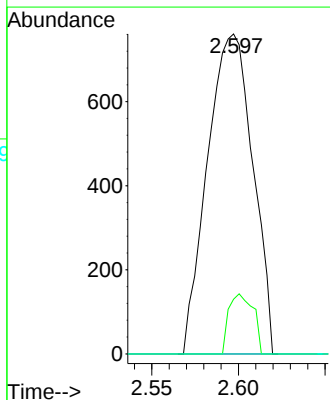
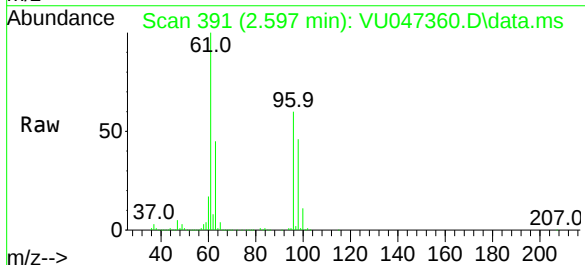
Instrument :
 MSVOA_U
 ClientSampleId :
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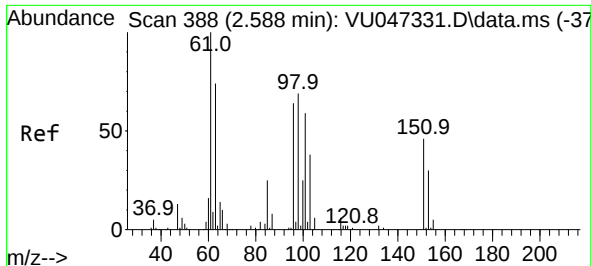
Tgt Ion: 62 Resp: 20533
 Ion Ratio Lower Upper
 62 100
 64 36.9 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.162 ug/L
 RT: 2.597 min Scan# 391
 Delta R.T. 0.010 min
 Lab File: VU047360.D
 Acq: 07 Mar 2022 12:22

Tgt Ion: 101 Resp: 1385
 Ion Ratio Lower Upper
 101 100
 85 10.1 34.6 51.8#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 33.763 ug/L

RT: 2.600 min Scan# 392

Delta R.T. 0.013 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

BFY18

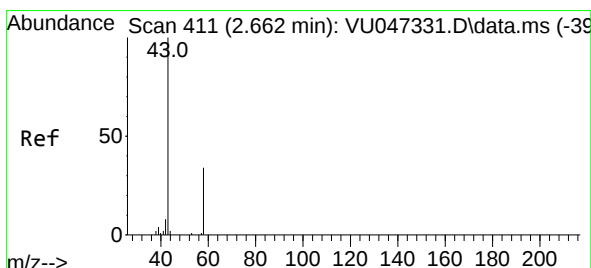
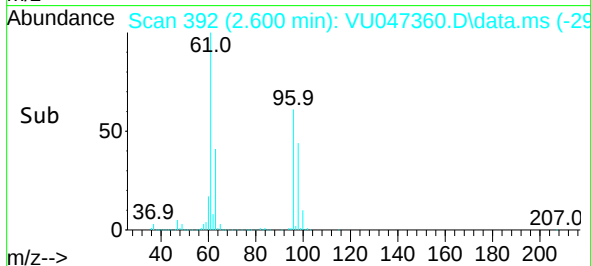
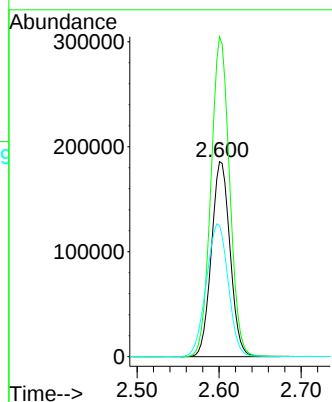
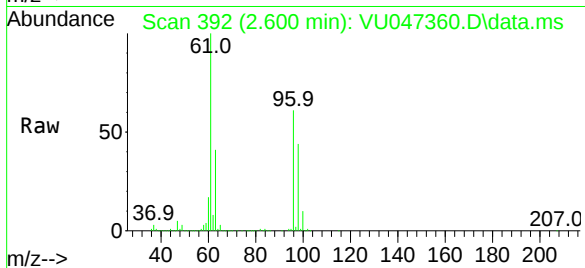
Tgt Ion: 96 Resp: 293901

Ion Ratio Lower Upper

96 100

61 164.1 124.7 231.5

63 67.4 105.2 195.4#



#13

Acetone

Concen: 6.174 ug/L

RT: 2.768 min Scan# 444

Delta R.T. 0.106 min

Lab File: VU047360.D

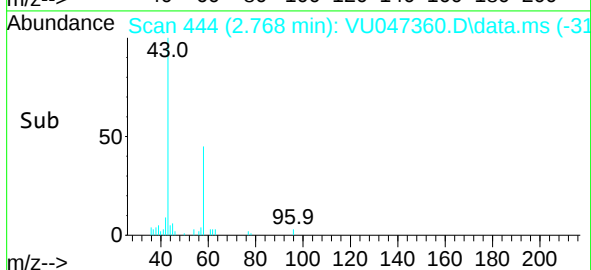
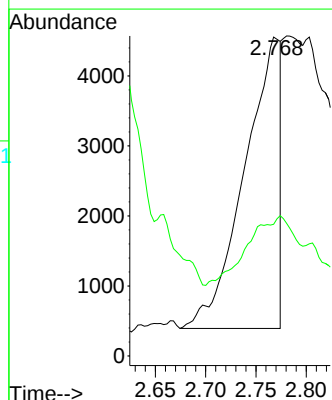
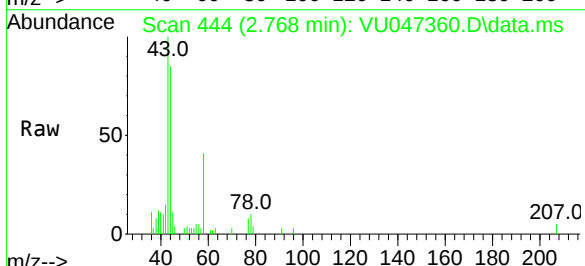
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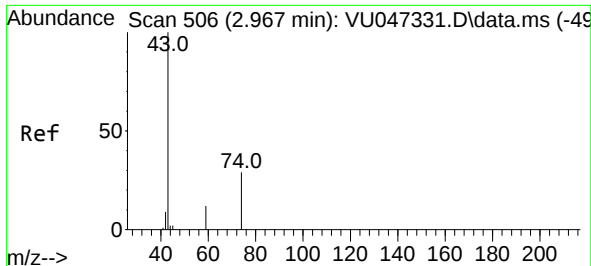
Tgt Ion: 43 Resp: 10313

Ion Ratio Lower Upper

43 100

58 26.0 0.0 71.6

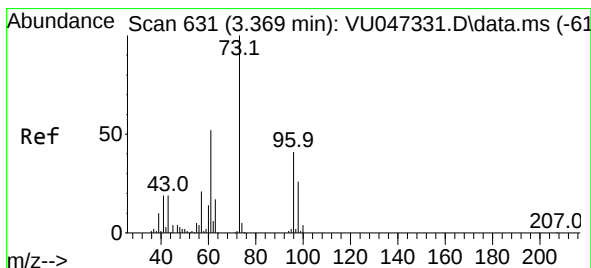
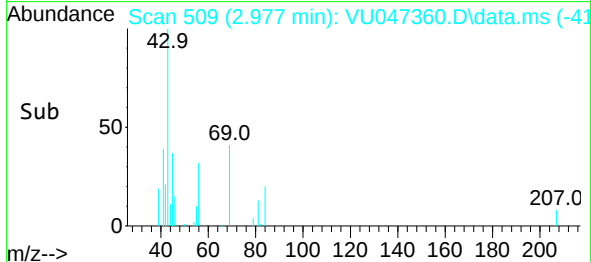
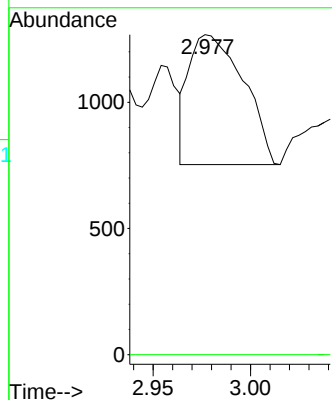
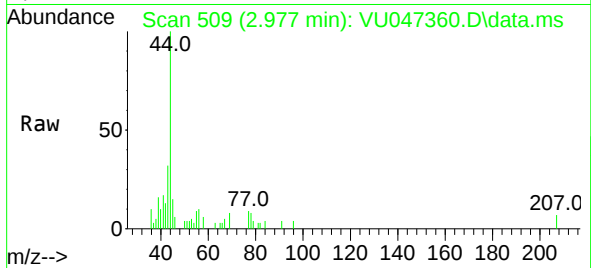




#15
Methyl Acetate
Concen: 0.261 ug/L
RT: 2.977 min Scan# 506
Delta R.T. 0.010 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

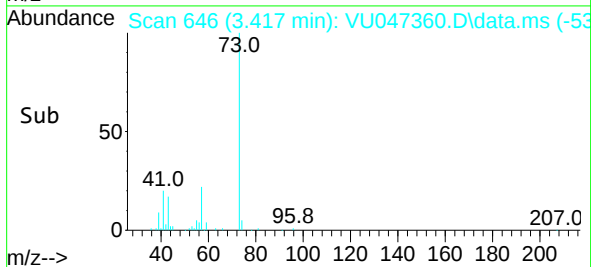
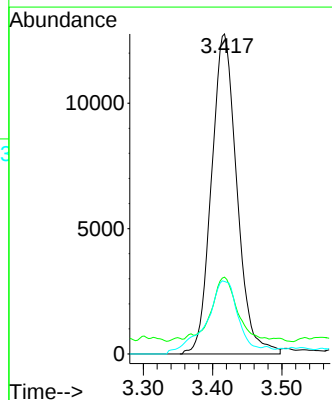
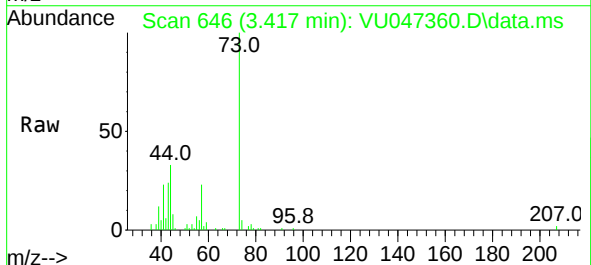
Instrument :
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ClientSampleId :
BFY18

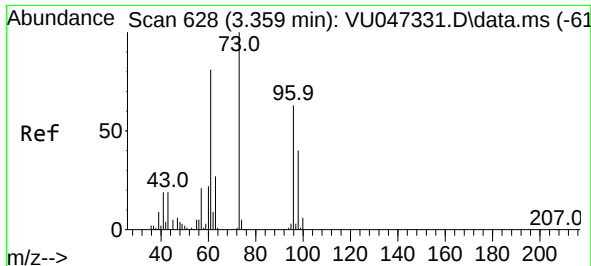
Tgt Ion: 43 Resp: 999
Ion Ratio Lower Upper
43 100
74 3.9 19.1 28.7#



#17
Methyl tert-butyl Ether
Concen: 1.395 ug/L
RT: 3.417 min Scan# 646
Delta R.T. 0.048 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

Tgt Ion: 73 Resp: 32520
Ion Ratio Lower Upper
73 100
43 18.3 14.8 22.2
57 28.7 17.4 26.0#

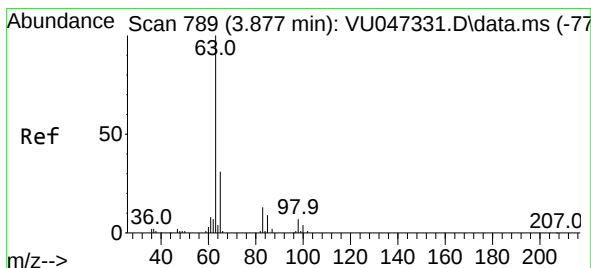
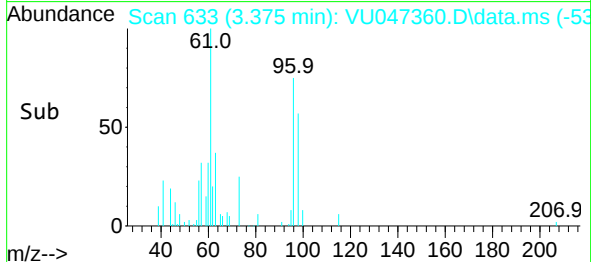
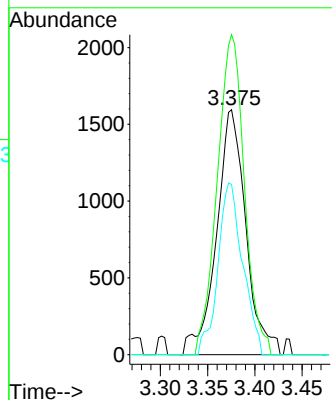
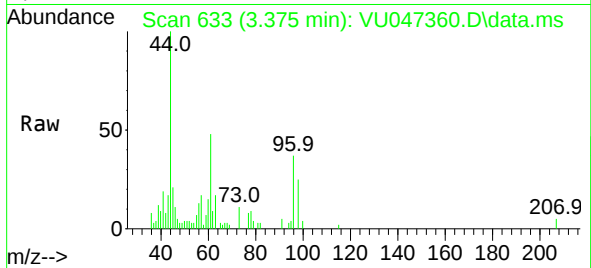




#18
trans-1,2-Dichloroethene
Concen: 0.364 ug/L
RT: 3.375 min Scan# 61
Delta R.T. 0.016 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

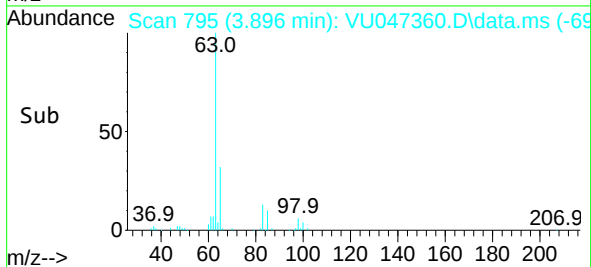
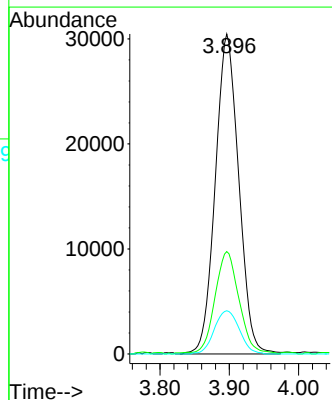
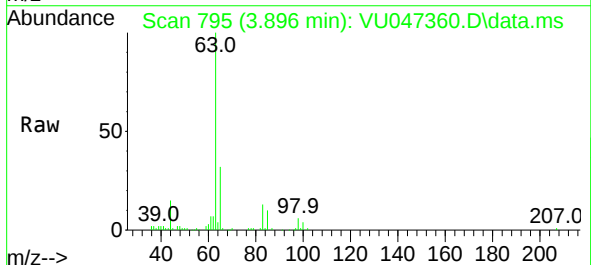
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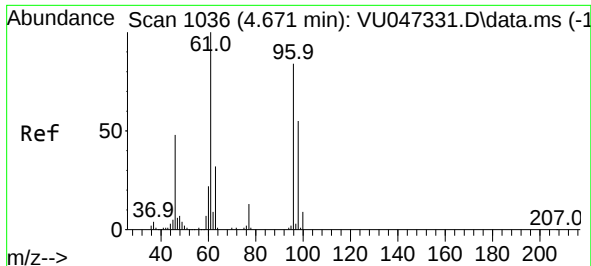
Tgt Ion: 96 Resp: 3440
Ion Ratio Lower Upper
96 100
61 130.7 100.8 187.2
98 69.6 45.1 83.7



#19
1,1-Dichloroethane
Concen: 4.546 ug/L
RT: 3.896 min Scan# 795
Delta R.T. 0.019 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

Tgt Ion: 63 Resp: 71552
Ion Ratio Lower Upper
63 100
65 32.0 22.3 41.5
83 13.5 9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 51.506 ug/L

RT: 4.690 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

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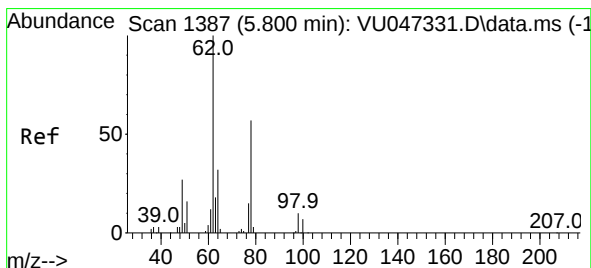
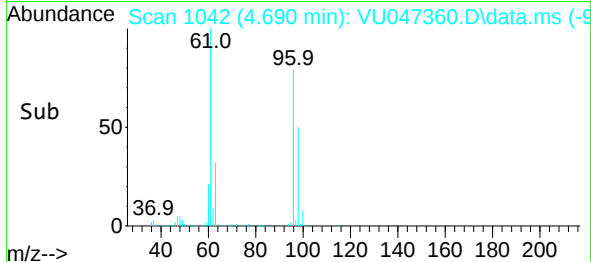
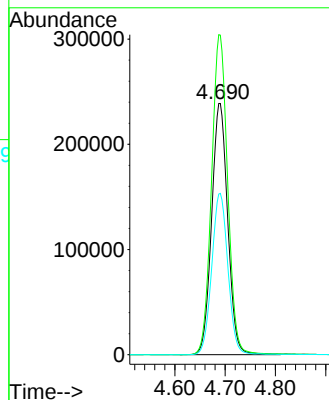
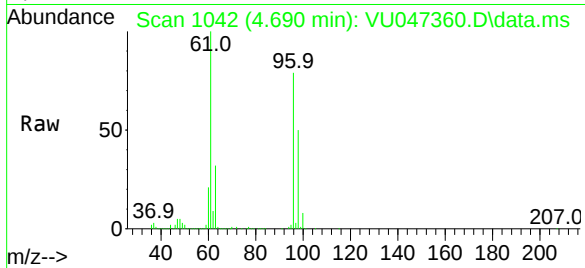
Tgt Ion: 96 Resp: 530066

Ion Ratio Lower Upper

96 100

61 127.2 88.5 164.3

98 64.2 44.4 82.5



#27

1,2-Dichloroethane

Concen: 0.341 ug/L

RT: 5.841 min Scan# 1400

Delta R.T. 0.042 min

Lab File: VU047360.D

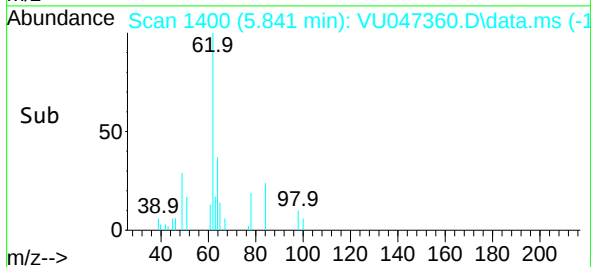
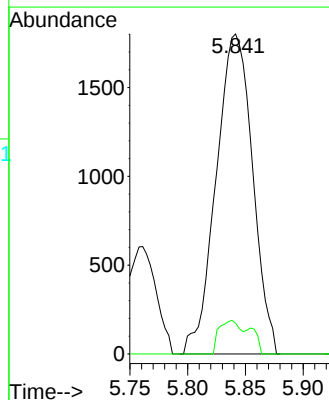
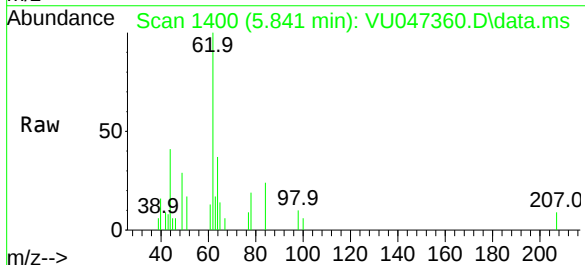
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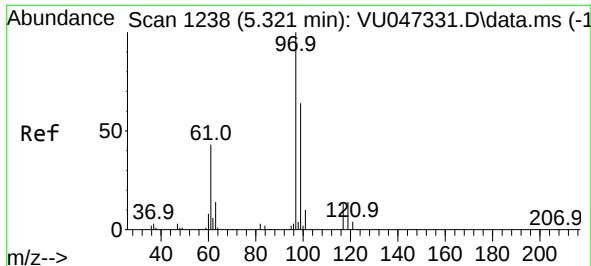
Tgt Ion: 62 Resp: 3957

Ion Ratio Lower Upper

62 100

98 9.7 7.8 11.8





#29

1,1,1-Trichloroethane

Concen: 7.890 ug/L

RT: 5.337 min Scan# 11

Delta R.T. 0.016 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

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ClientSampleId :

BFY18

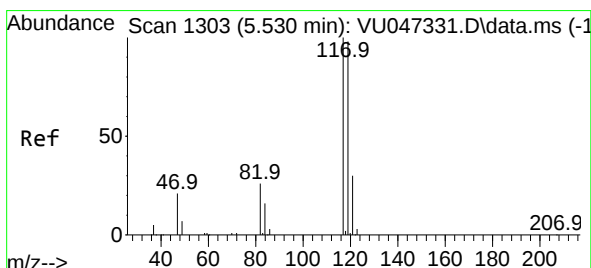
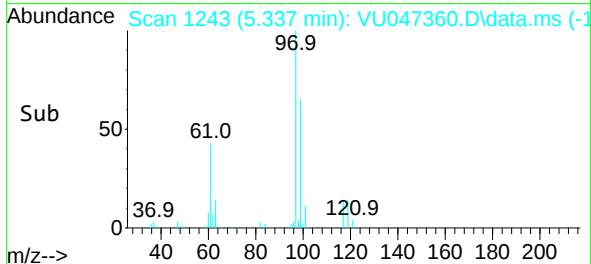
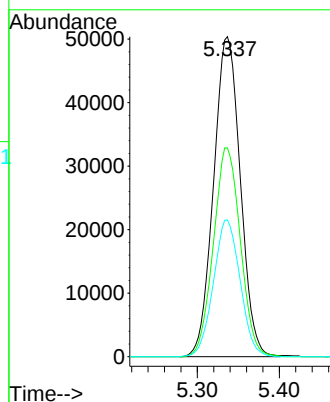
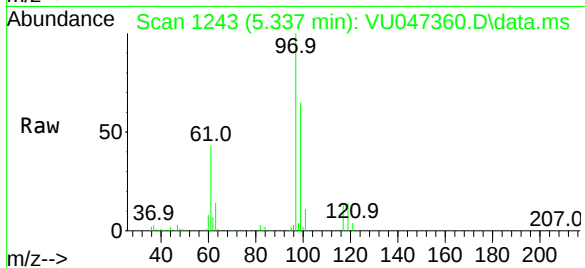
Tgt Ion: 97 Resp: 114315

Ion Ratio Lower Upper

97 100

99 65.8 51.3 76.9

61 42.7 36.1 54.1



#31

Carbon tetrachloride

Concen: 1.252 ug/L

RT: 5.337 min Scan# 1243

Delta R.T. -0.193 min

Lab File: VU047360.D

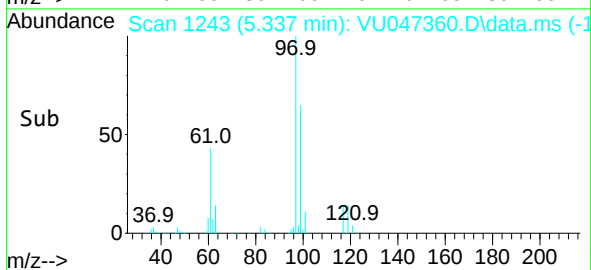
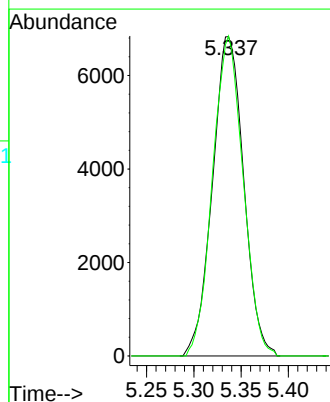
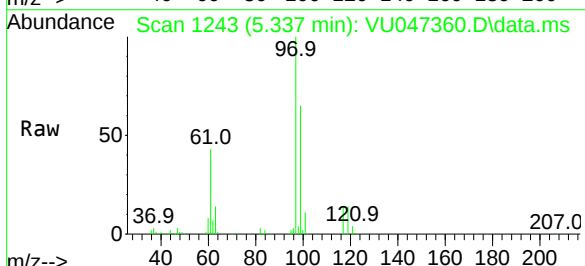
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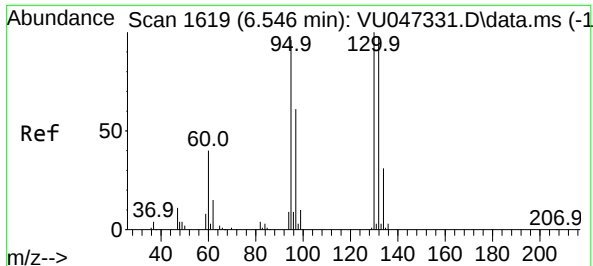
Tgt Ion: 117 Resp: 15665

Ion Ratio Lower Upper

117 100

119 98.0 77.5 116.3





#34

Trichloroethene

Concen: 72.360 ug/L

RT: 6.578 min Scan# 1

Delta R.T. 0.032 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

BFY18

Tgt Ion: 95 Resp: 740571

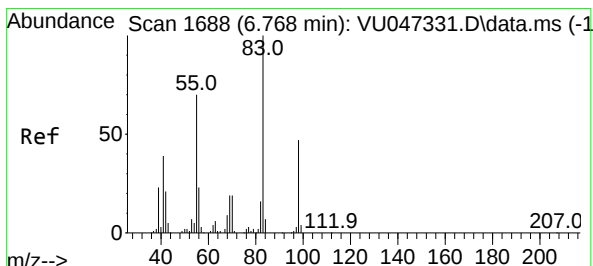
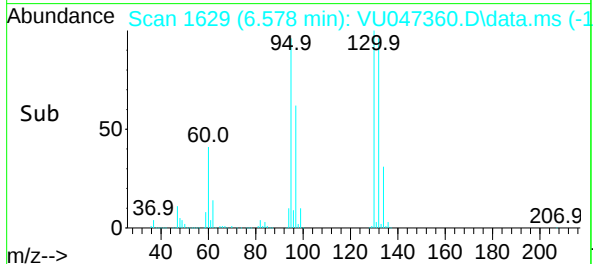
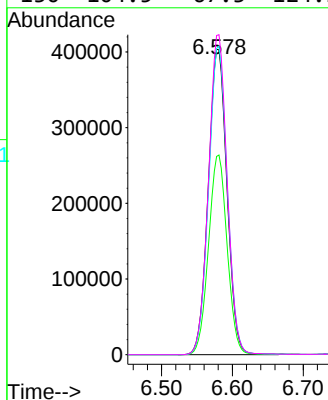
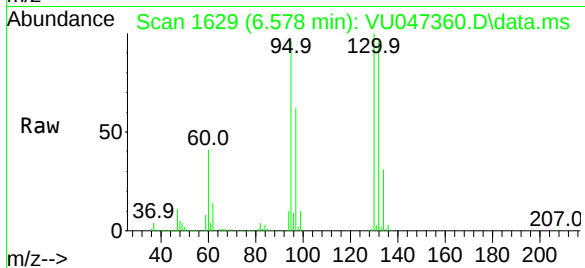
Ion Ratio Lower Upper

95 100

97 64.9 46.5 86.5

132 100.3 65.1 120.9

130 104.5 67.3 124.9



#35

Methylcyclohexane

Concen: 1.062 ug/L

RT: 6.729 min Scan# 1676

Delta R.T. -0.039 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

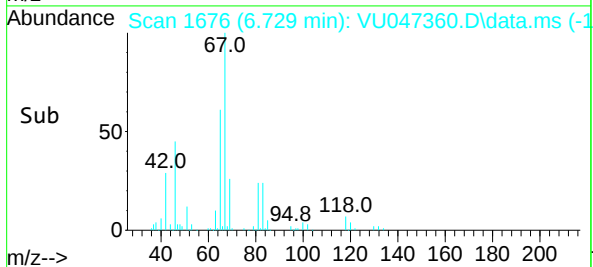
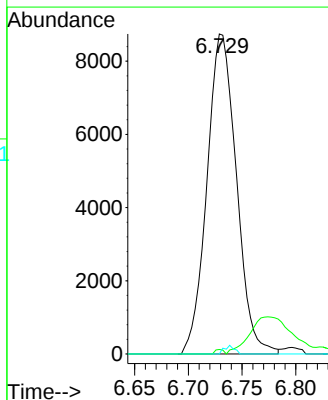
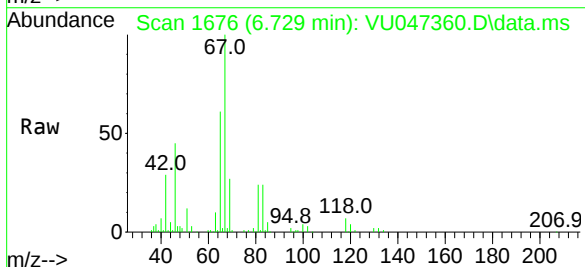
Tgt Ion: 83 Resp: 16672

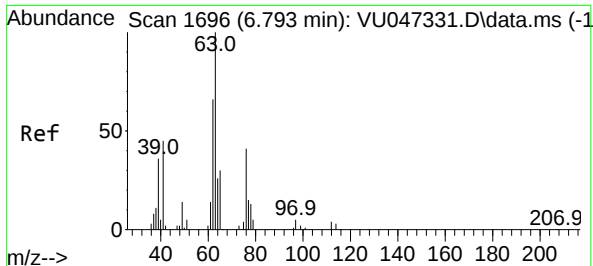
Ion Ratio Lower Upper

83 100

55 16.8 61.9 92.9#

98 0.0 39.0 58.6#





#37

1,2-Dichloropropane

Concen: 0.133 ug/L

RT: 6.829 min Scan# 11

Delta R.T. 0.035 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

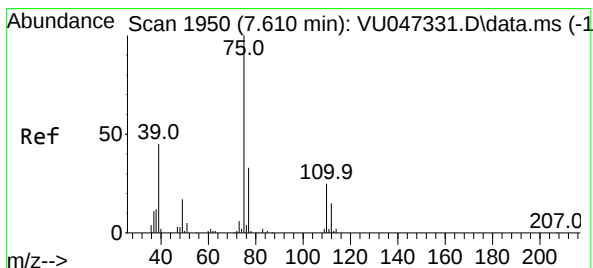
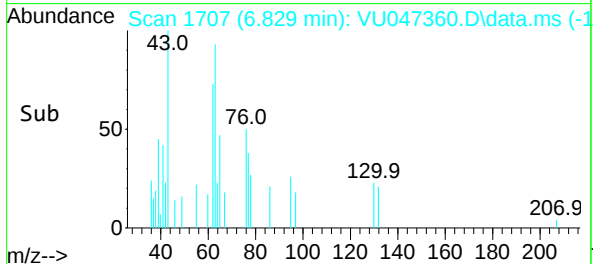
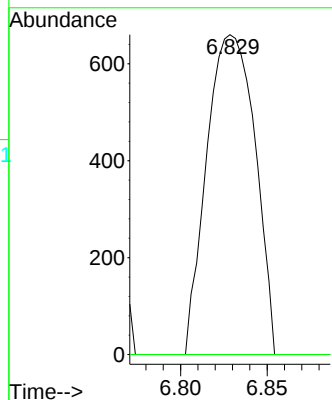
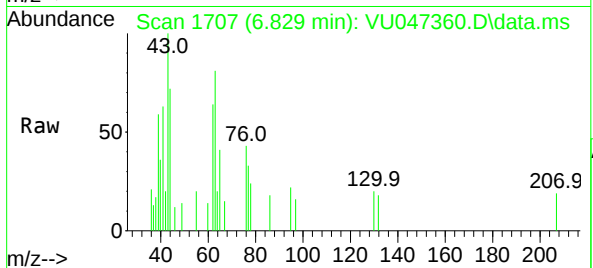
BFY18

Tgt Ion: 63 Resp: 1284

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.129 ug/L

RT: 7.591 min Scan# 1944

Delta R.T. -0.019 min

Lab File: VU047360.D

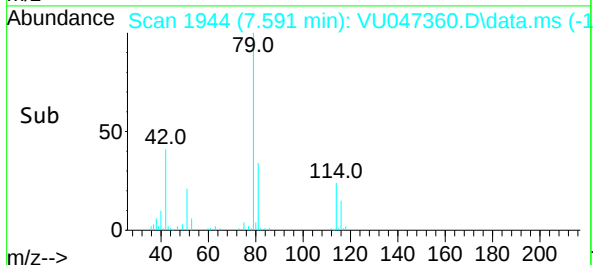
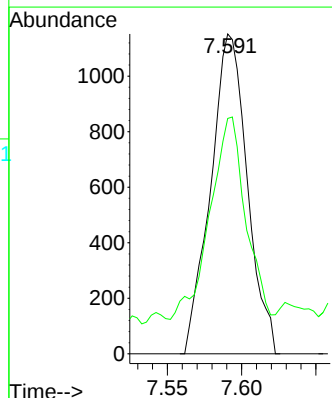
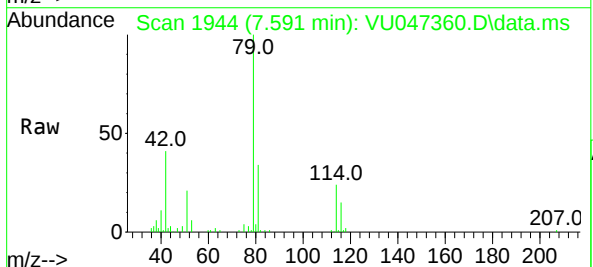
Acq: 07 Mar 2022 12:22

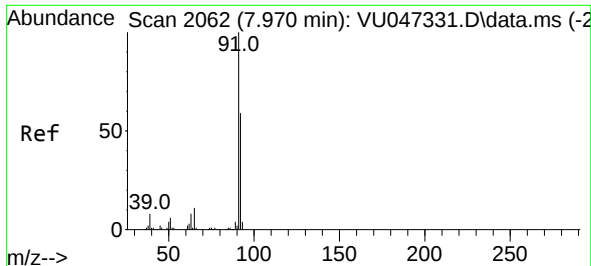
Tgt Ion: 75 Resp: 1978

Ion Ratio Lower Upper

75 100

77 73.6 22.5 41.9#





#42

Toluene

Concen: 0.243 ug/L

RT: 7.989 min Scan# 2062

Delta R.T. 0.019 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

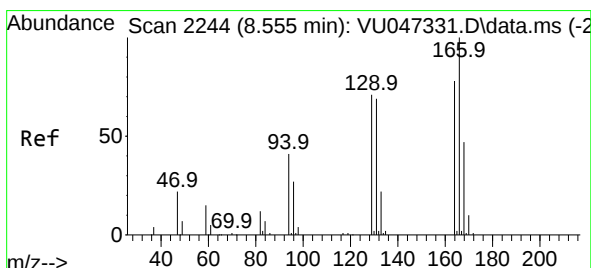
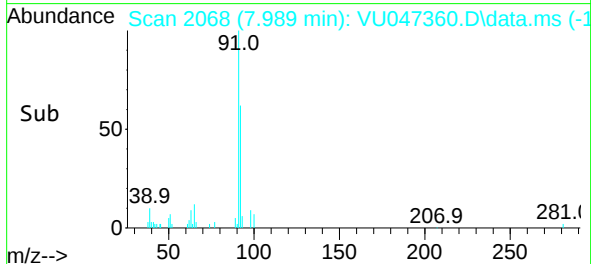
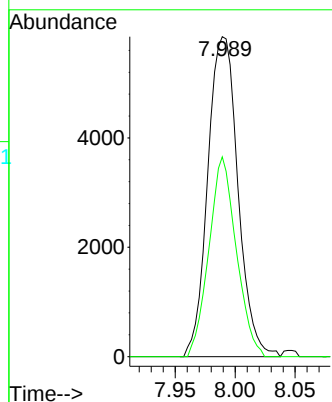
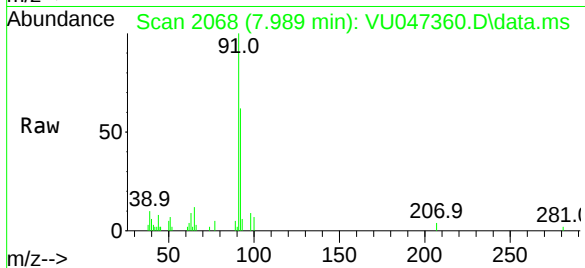
BFY18

Tgt Ion: 91 Resp: 10235

Ion Ratio Lower Upper

91 100

92 62.4 41.3 76.7



#47

Tetrachloroethene

Concen: 79.268 ug/L

RT: 8.568 min Scan# 2248

Delta R.T. 0.013 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Tgt Ion: 164 Resp: 691114

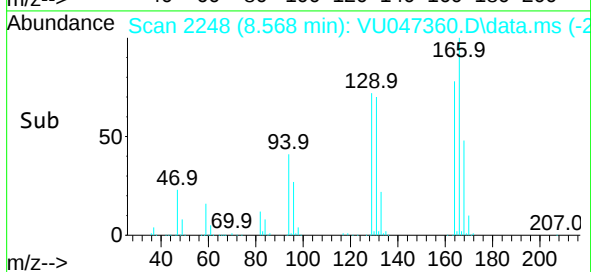
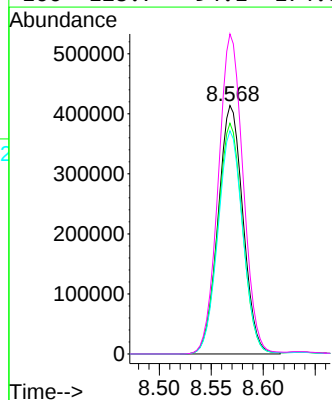
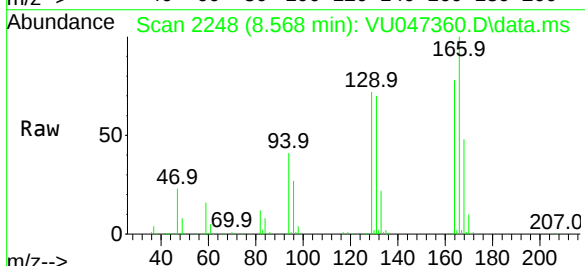
Ion Ratio Lower Upper

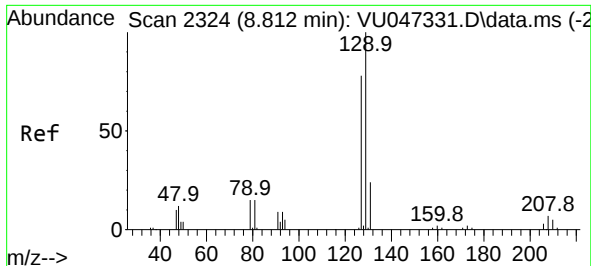
164 100

129 92.8 71.8 133.4

131 89.8 68.5 127.3

166 128.7 94.1 174.8

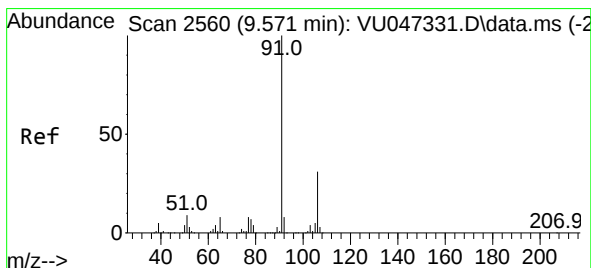
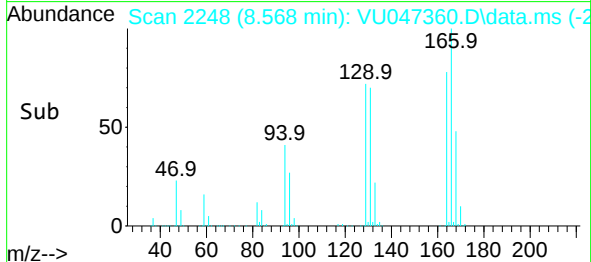
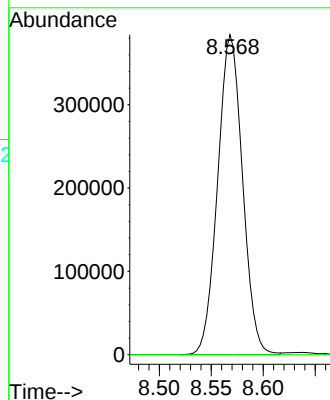
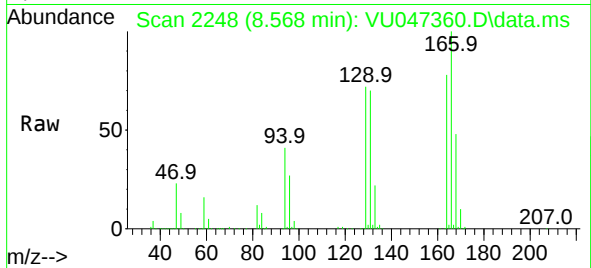




#49
Dibromochloromethane
Concen: 64.991 ug/L
RT: 8.568 min Scan# 21
Delta R.T. -0.244 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

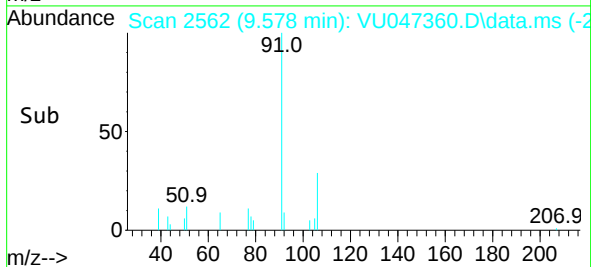
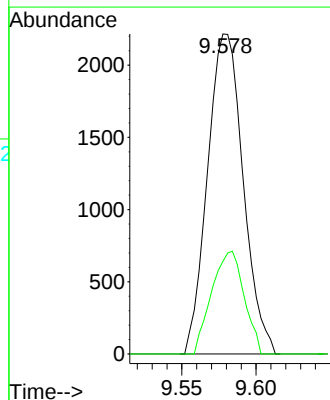
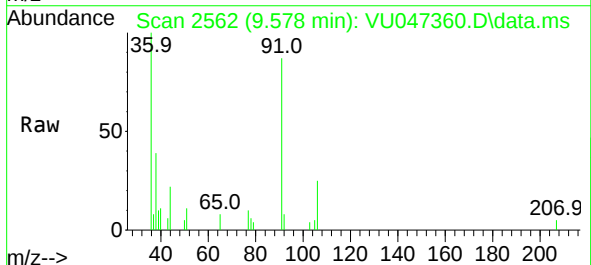
Instrument :
MSVOA_U
ClientSampleId :
BFY18

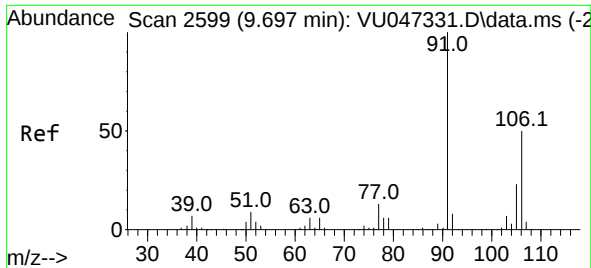
Tgt Ion:129 Resp: 638693
Ion Ratio Lower Upper
129 100
127 0.0 55.4 102.8#



#52
Ethylbenzene
Concen: 0.082 ug/L
RT: 9.578 min Scan# 2562
Delta R.T. 0.006 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

Tgt Ion: 91 Resp: 3698
Ion Ratio Lower Upper
91 100
106 29.0 21.5 39.9

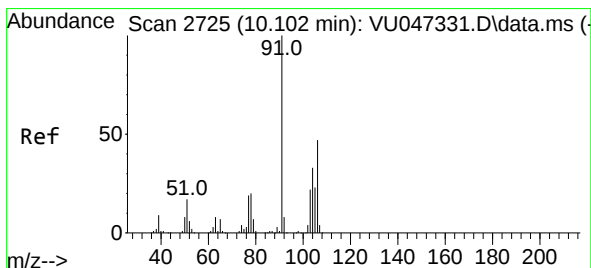
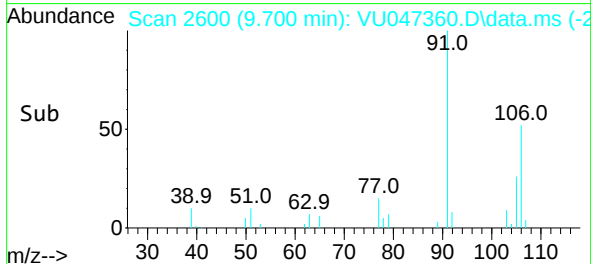
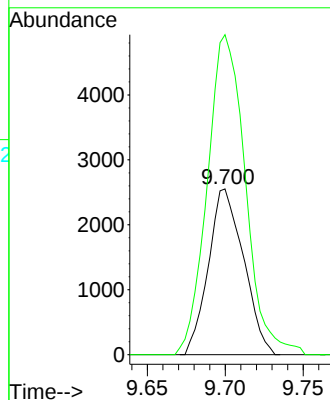
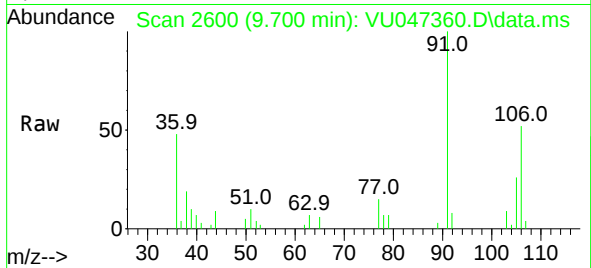




#53
m,p-Xylene
Concen: 0.224 ug/L
RT: 9.700 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

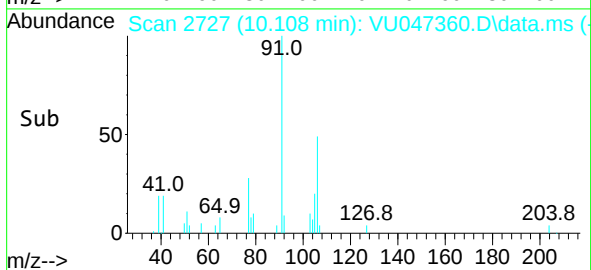
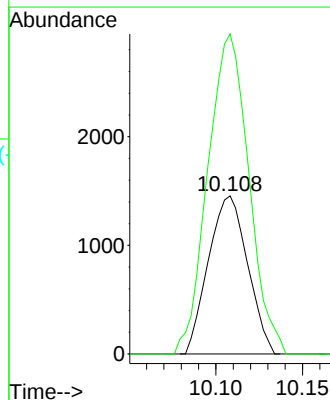
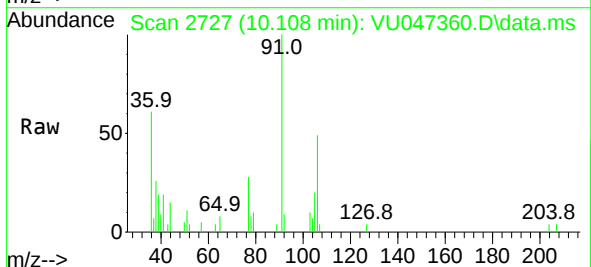
Instrument :
MSVOA_U
ClientSampleId :
BFY18

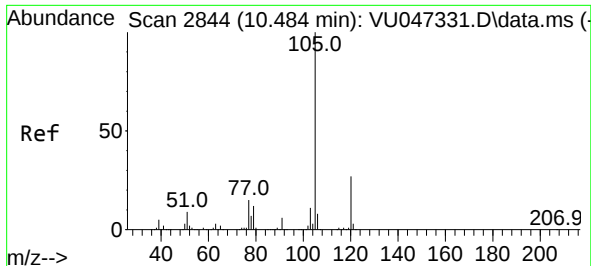
Tgt Ion:106 Resp: 4015
Ion Ratio Lower Upper
106 100
91 193.1 139.4 259.0



#54
o-Xylene
Concen: 0.132 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. 0.006 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

Tgt Ion:106 Resp: 2285
Ion Ratio Lower Upper
106 100
91 202.3 147.5 273.9

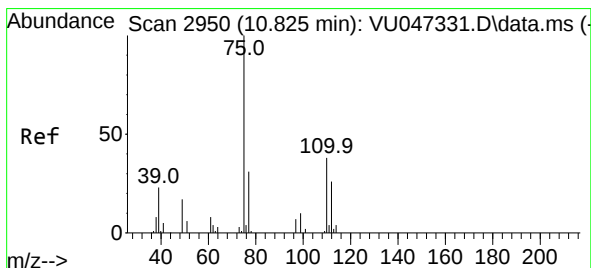
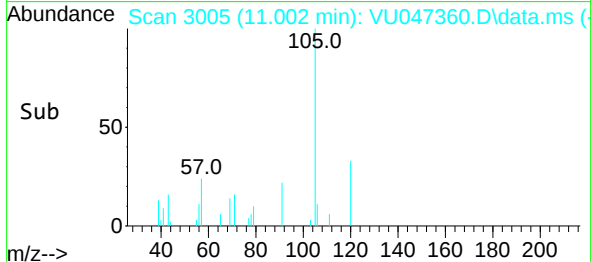
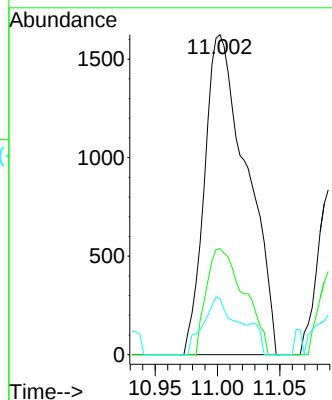
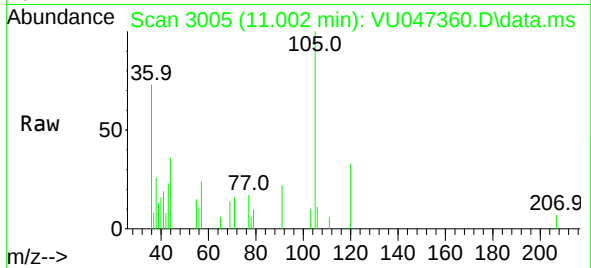




#60
Isopropylbenzene
Concen: 0.089 ug/L
RT: 11.002 min Scan# 30
Delta R.T. 0.518 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

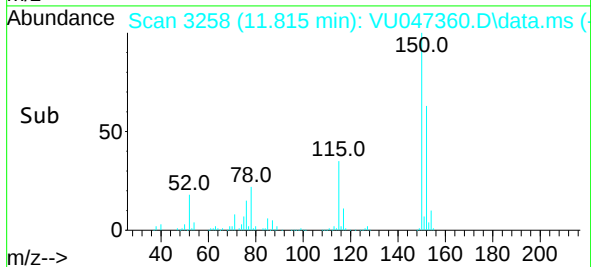
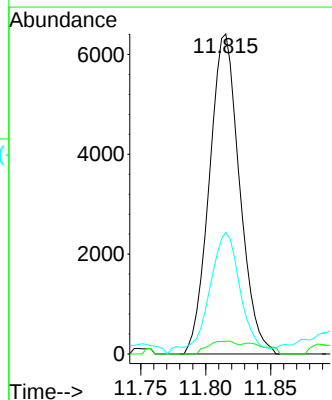
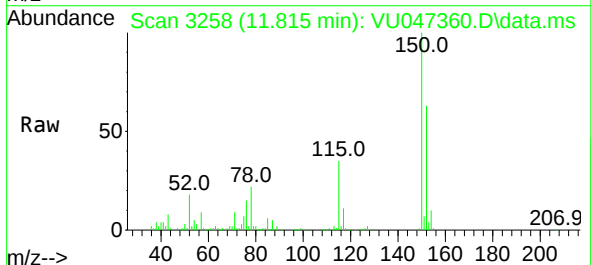
Instrument :
MSVOA_U
ClientSampleId :
BFY18

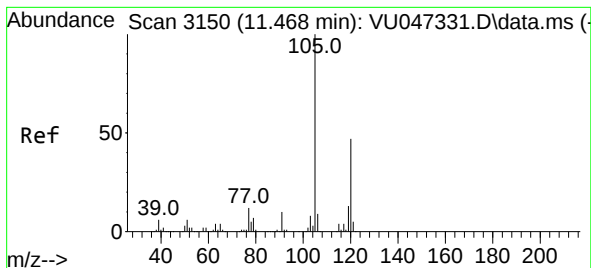
Tgt Ion:105 Resp: 3822
Ion Ratio Lower Upper
105 100
120 29.6 20.7 31.1
77 16.1 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 1.297 ug/L
RT: 11.815 min Scan# 3258
Delta R.T. 0.990 min
Lab File: VU047360.D
Acq: 07 Mar 2022 12:22

Tgt Ion: 75 Resp: 10339
Ion Ratio Lower Upper
75 100
110 3.8 29.9 44.9#
77 39.4 25.5 38.3#





#63

1,2,4-Trimethylbenzene

Concen: 0.203 ug/L

RT: 11.471 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

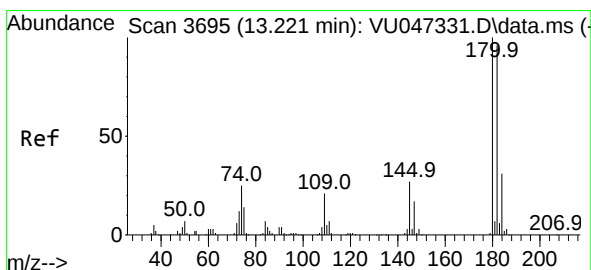
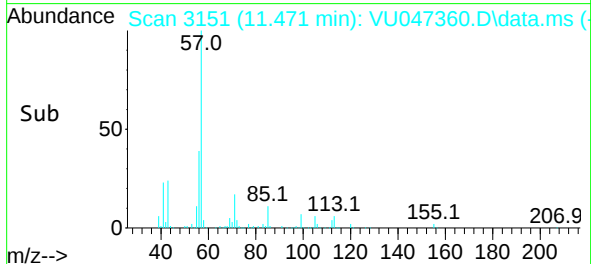
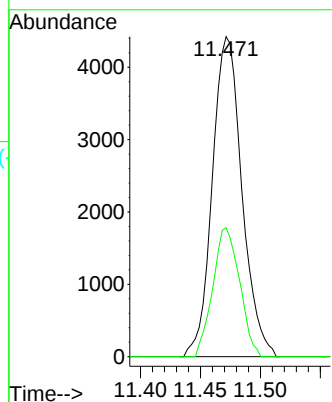
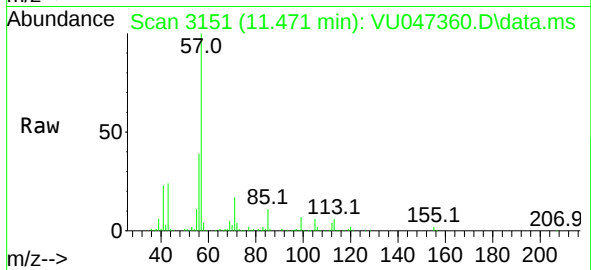
BFY18

Tgt Ion:105 Resp: 7585

Ion Ratio Lower Upper

105 100

120 36.3 35.8 53.8



#69

1,3,5-Trichlorobenzene

Concen: 0.252 ug/L

RT: 14.047 min Scan# 3952

Delta R.T. 0.826 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Tgt Ion:180 Resp: 4846

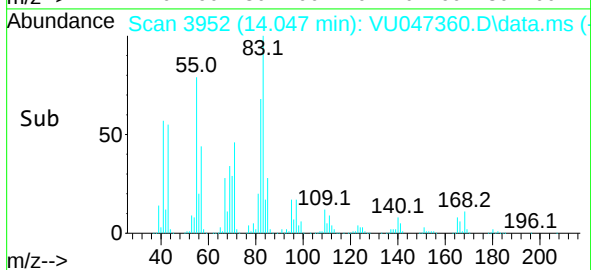
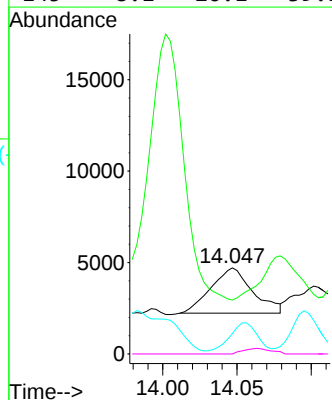
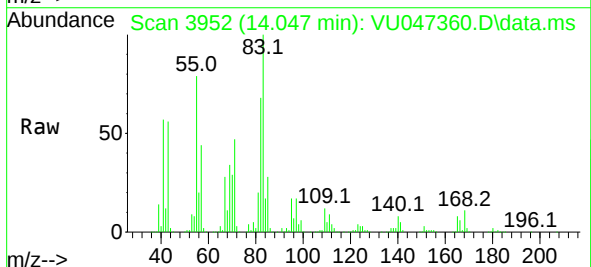
Ion Ratio Lower Upper

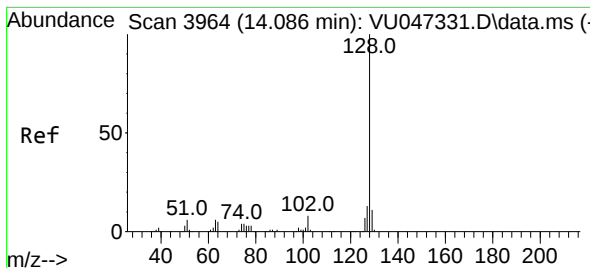
180 100

182 74.2 76.1 114.1#

184 57.8 25.0 37.4#

145 8.1 26.1 39.1#





#71

Naphthalene

Concen: 0.193 ug/L

RT: 14.089 min Scan# 3964

Delta R.T. 0.003 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Instrument :

MSVOA_U

ClientSampleId :

BFY18

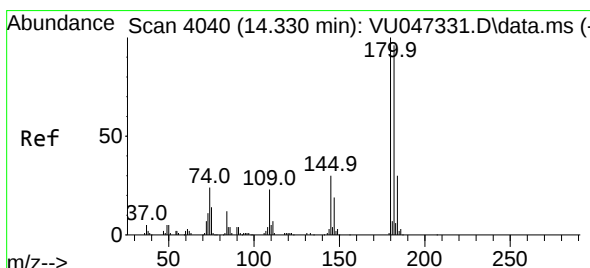
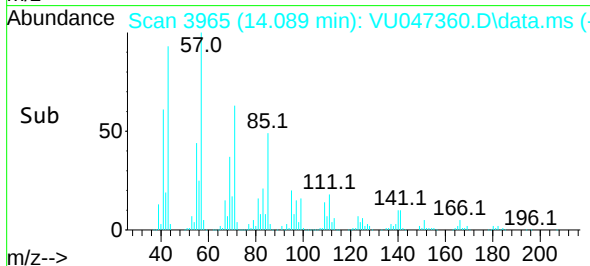
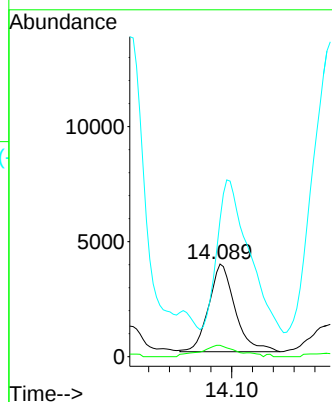
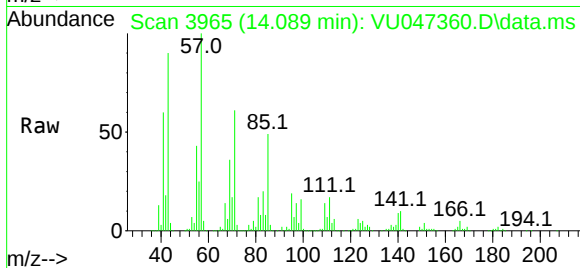
Tgt Ion:128 Resp: 6712

Ion Ratio Lower Upper

128 100

129 17.9 8.4 12.6#

127 209.1 10.2 15.2#



#72

1,2,3-Trichlorobenzene

Concen: 1.491 ug/L

RT: 14.352 min Scan# 4047

Delta R.T. 0.022 min

Lab File: VU047360.D

Acq: 07 Mar 2022 12:22

Tgt Ion:180 Resp: 24232

Ion Ratio Lower Upper

180 100

182 19.4 76.2 114.4#

145 0.7 28.4 42.6#

