

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021522\
 Data File : VU047149.D
 Acq On : 15 Feb 2022 14:37
 Operator : SY/MD
 Sample : N1205-08DL 5X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

Quant Time: Feb 17 08:04:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021422DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 15 03:17:28 2022
 Response via : Initial Calibration

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

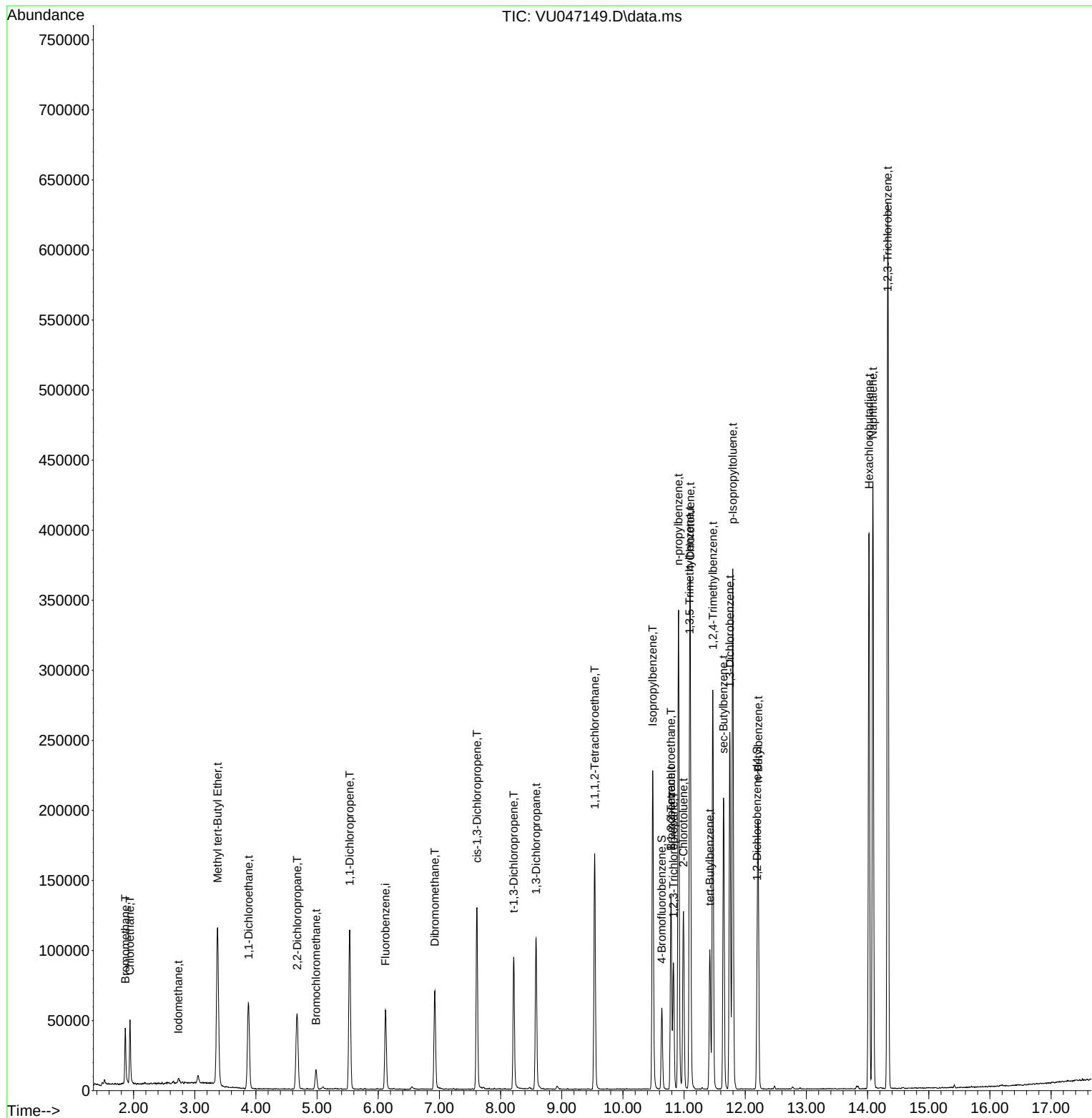
Internal Standards						
1) Fluorobenzene	6.118	96	53532	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.635	95	20514	0.989	ug/l	0.00
Spiked Amount 1.000			Recovery	=	99.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	21204	0.982	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
						Qvalue
5) Bromomethane	1.864	94	19756	1.671	ug/l	98
6) Chloroethane	1.941	64	31257	3.006	ug/l	100
10) Iodomethane	2.732	142	4107	1.149	ug/l	97
17) 1,1-Dichloroethane	3.880	63	72273	2.954	ug/l	98
21) 2,2-Dichloropropane	4.674	77	41438	1.895	ug/l	99
25) Methyl tert-Butyl Ether	3.372	73	128698	3.627	ug/l	99
26) Bromochloromethane	4.983	128	4640	0.672	ug/l	90
29) 1,1-Dichloropropene	5.533	75	60830	3.092	ug/l	98
43) Dibromomethane	6.925	93	27148	3.450	ug/l	90
50) t-1,3-Dichloropropene	8.214	75	52072	2.585	ug/l	99
51) cis-1,3-Dichloropropene	7.613	75	74972	3.320	ug/l	98
53) 1,3-Dichloropropane	8.581	76	65940	3.287	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.539	131	46291	3.396	ug/l	98
69) Isopropylbenzene	10.488	105	159337	2.302	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.787	83	50373	3.319	ug/l	98
71) 1,2,3-Trichloropropane	10.825	75	40632	3.172	ug/l	83
72) Bromobenzene	10.787	156	11903	0.704	ug/l	86
73) n-propylbenzene	10.909	120	64122	3.365	ug/l	86
74) 2-Chlorotoluene	10.989	126	25462	1.567	ug/l	95
75) 1,3,5-Trimethylbenzene	11.089	105	78090	1.375	ug/l	98
76) 4-Chlorotoluene	11.102	126	54409	3.188	ug/l	77
77) tert-Butylbenzene	11.423	119	49367	0.867	ug/l	95
78) 1,2,4-Trimethylbenzene	11.471	105	157472	2.718	ug/l	97
79) sec-Butylbenzene	11.645	105	146786	1.940	ug/l	98
81) p-Isopropyltoluene	11.796	119	213546	3.336	ug/l	97
82) 1,3-Dichlorobenzene	11.748	146	108173	3.287	ug/l	97
84) n-Butylbenzene	12.211	91	88951	1.447	ug/l	97
88) Hexachlorobutadiene	14.024	225	74639	5.869	ug/l	97
89) Naphthalene	14.089	128	342989	6.731	ug/l	99
90) 1,2,3-Trichlorobenzene	14.330	180	199376	8.935	ug/l	97

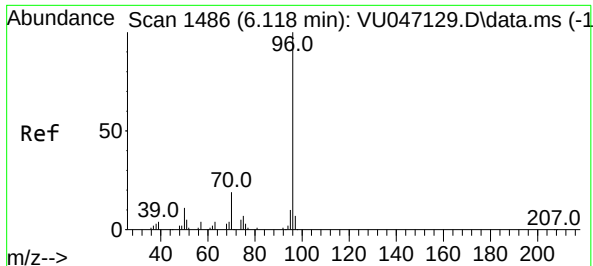
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 15 03:17:28 2022
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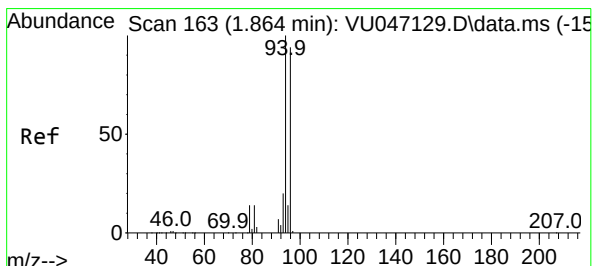
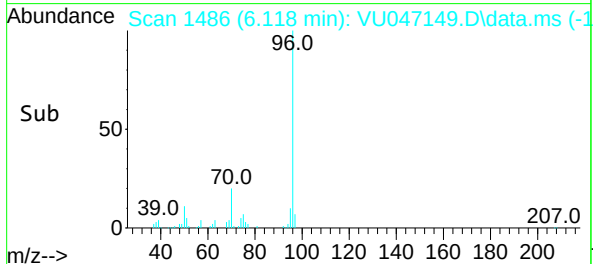
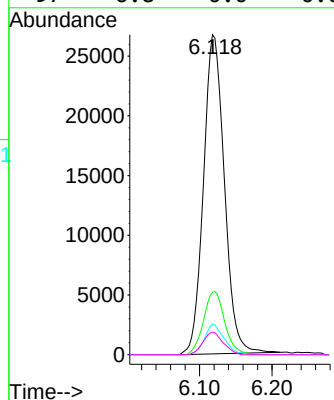
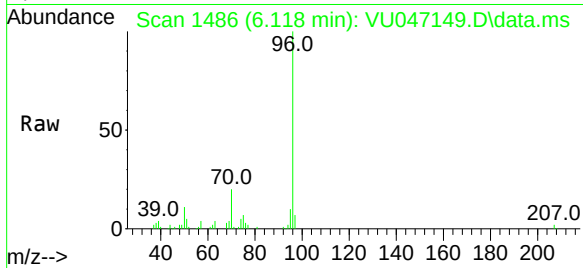




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

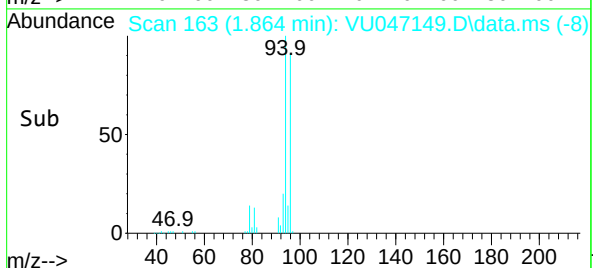
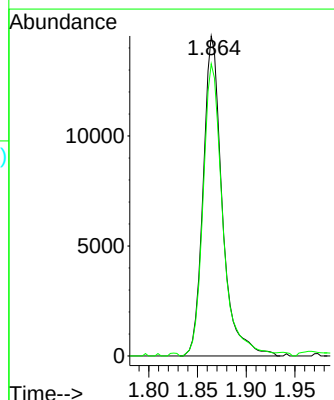
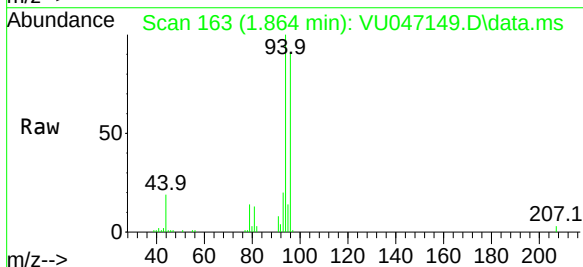
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

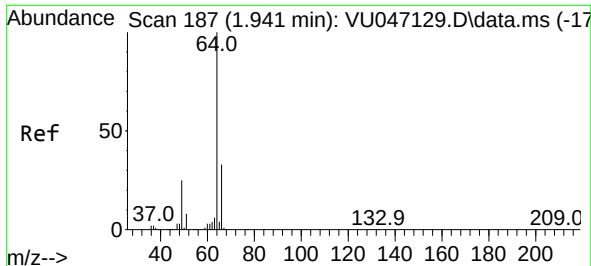
Tgt Ion:	96	Resp:	53532
Ion	Ratio	Lower	Upper
96	100		
70	19.9	16.8	25.2
95	8.9	7.3	10.9
97	6.8	0.0	0.0



#5
Bromomethane
Concen: 1.671 ug/l
RT: 1.864 min Scan# 163
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:	94	Resp:	19756
Ion	Ratio	Lower	Upper
94	100		
96	91.3	75.0	112.4

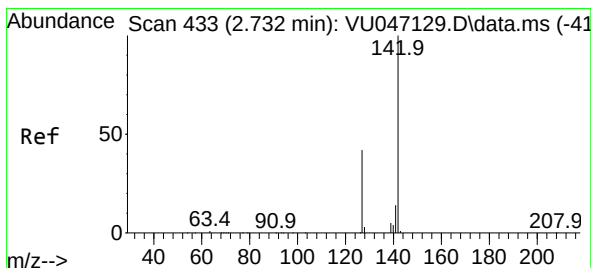
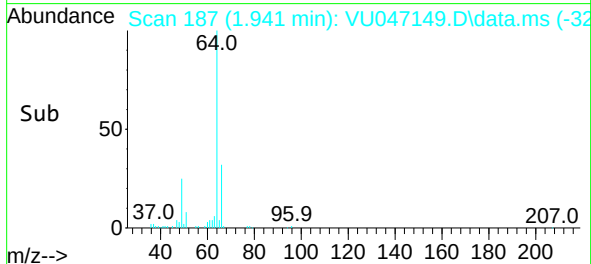
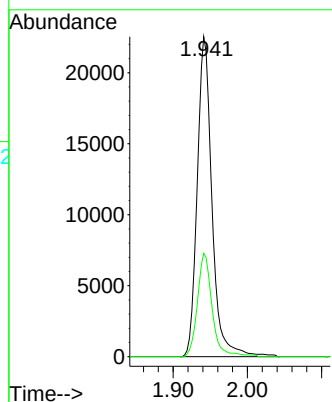
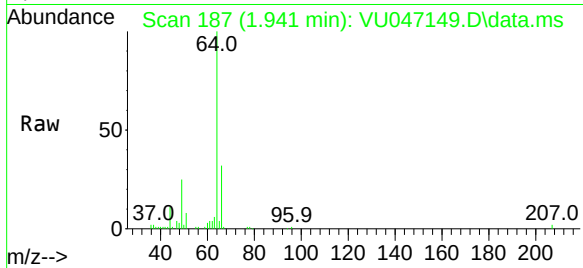




#6
Chloroethane
Concen: 3.006 ug/l
RT: 1.941 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

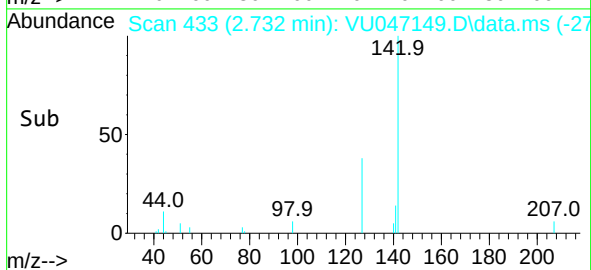
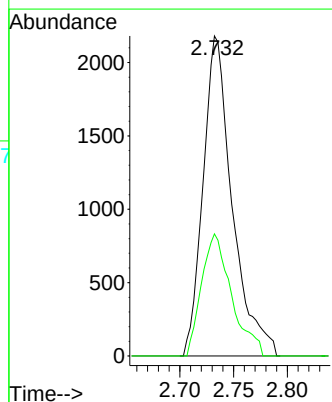
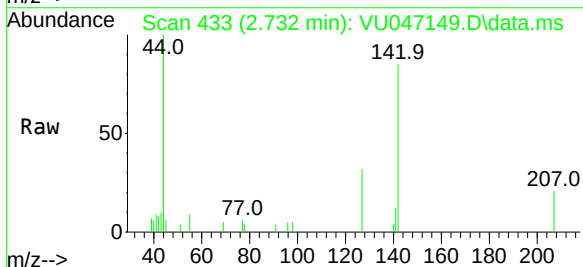
Instrument :
MSVOA_U
ClientSampleId :
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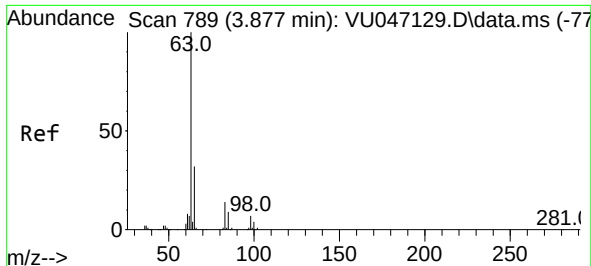
Tgt Ion: 64 Resp: 31257
Ion Ratio Lower Upper
64 100
66 32.3 25.8 38.8



#10
Iodomethane
Concen: 1.149 ug/l
RT: 2.732 min Scan# 433
Delta R.T. 0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion: 142 Resp: 4107
Ion Ratio Lower Upper
142 100
127 39.3 33.2 49.8

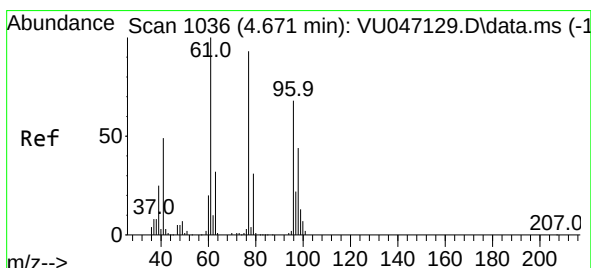
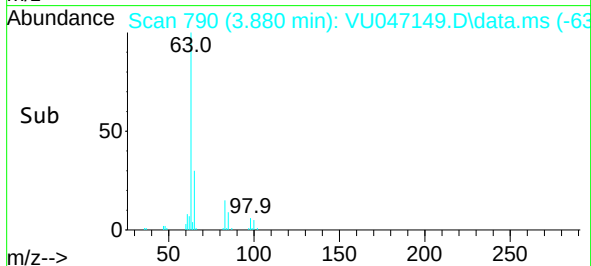
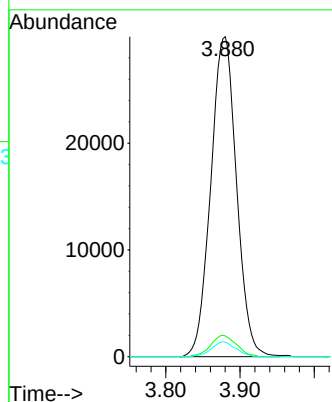
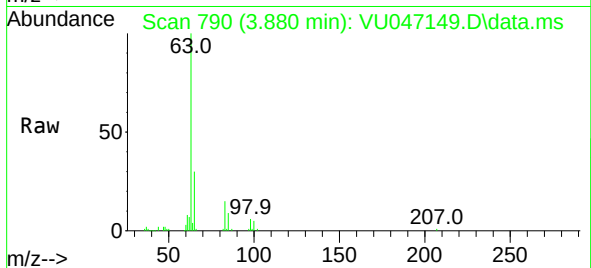




#17
1,1-Dichloroethane
Concen: 2.954 ug/l
RT: 3.880 min Scan# 790
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

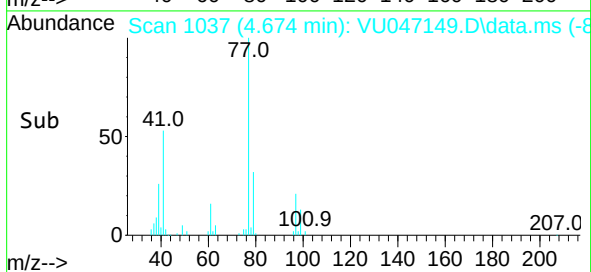
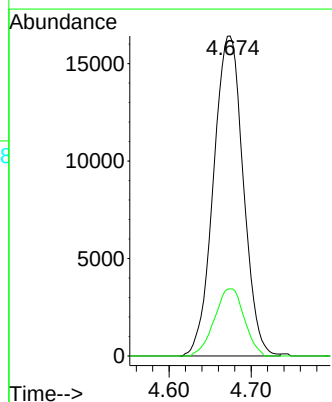
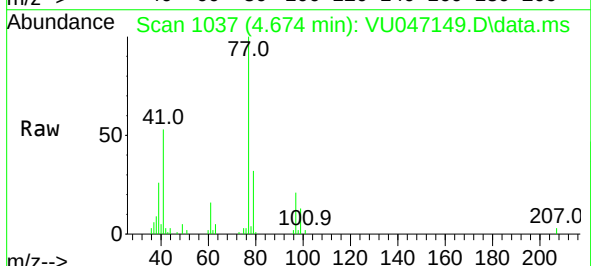
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

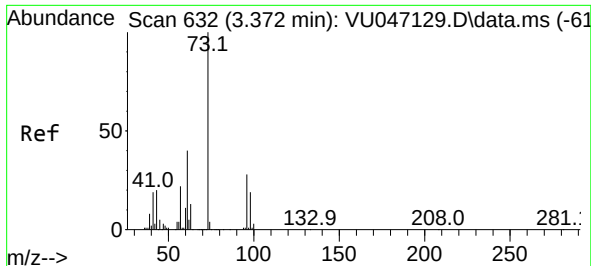
Tgt Ion: 63 Resp: 72273
Ion Ratio Lower Upper
63 100
98 6.5 3.6 10.8
100 4.5 2.1 6.5



#21
2,2-Dichloropropane
Concen: 1.895 ug/l
RT: 4.674 min Scan# 1037
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion: 77 Resp: 41438
Ion Ratio Lower Upper
77 100
97 21.0 17.2 25.8

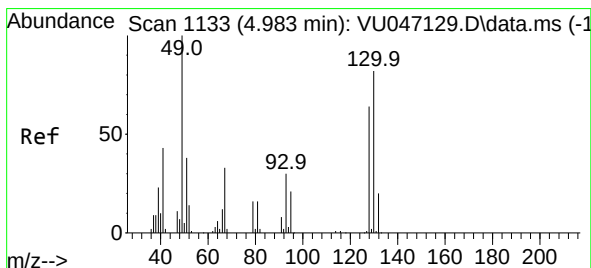
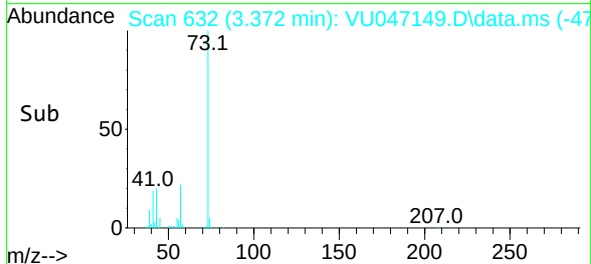
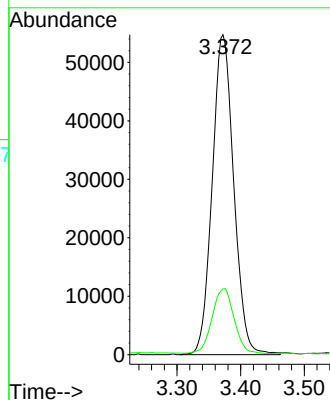
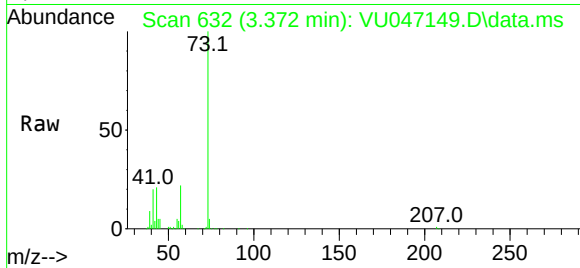




#25
Methyl tert-Butyl Ether
Concen: 3.627 ug/l
RT: 3.372 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

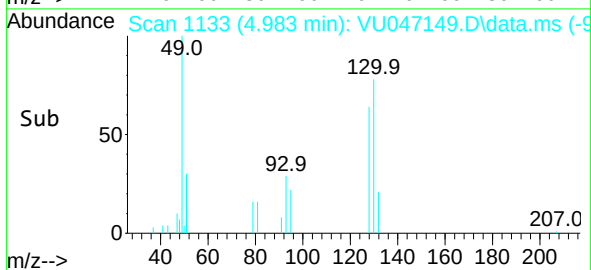
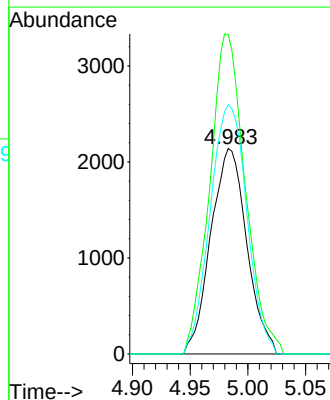
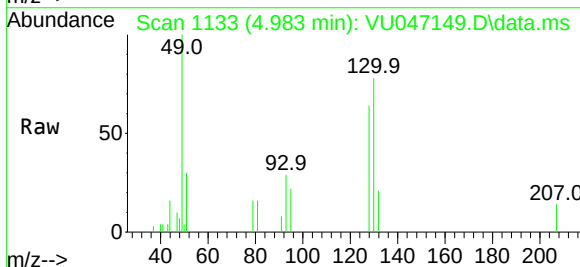
Instrument :
MSVOA_U
ClientSampleId :
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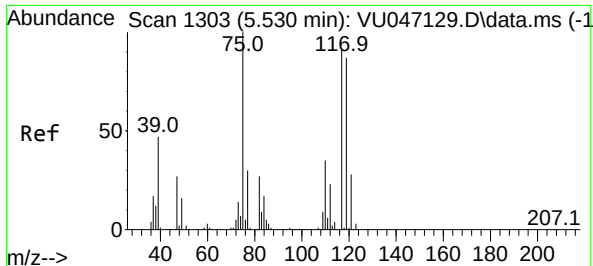
Tgt Ion: 73 Resp: 128698
Ion Ratio Lower Upper
73 100
43 20.7 16.3 24.5



#26
Bromochloromethane
Concen: 0.672 ug/l
RT: 4.983 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion: 128 Resp: 4640
Ion Ratio Lower Upper
128 100
49 153.2 0.0 347.4
130 124.0 101.5 152.3





#29

1,1-Dichloropropene

Concen: 3.092 ug/l

RT: 5.533 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL

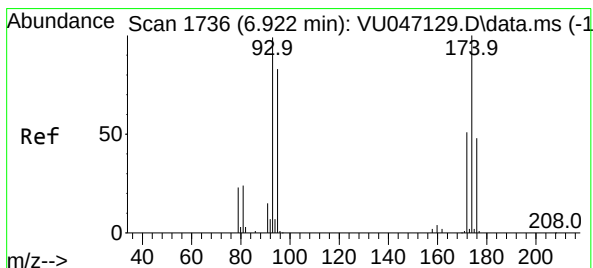
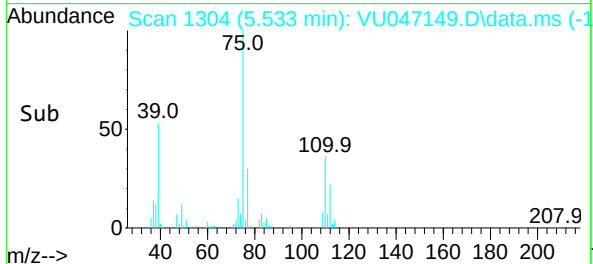
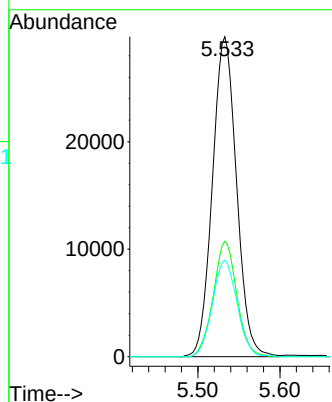
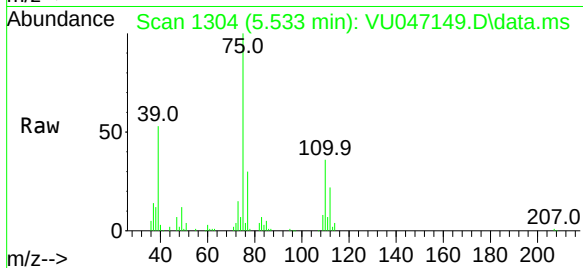
Tgt Ion: 75 Resp: 60830

Ion Ratio Lower Upper

75 100

110 35.2 16.8 50.3

77 30.7 24.7 37.1



#43

Dibromomethane

Concen: 3.450 ug/l

RT: 6.925 min Scan# 1737

Delta R.T. 0.003 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

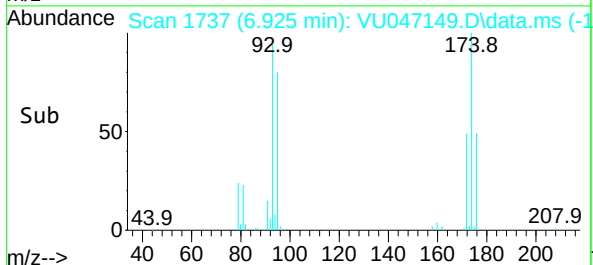
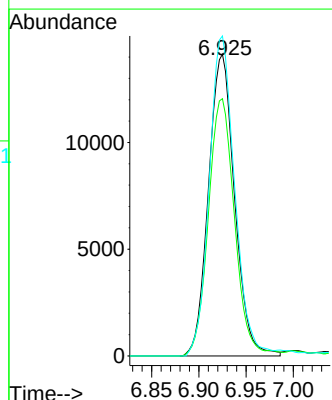
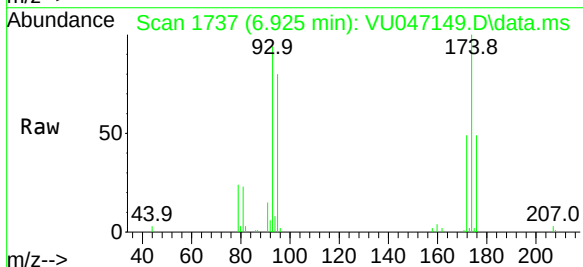
Tgt Ion: 93 Resp: 27148

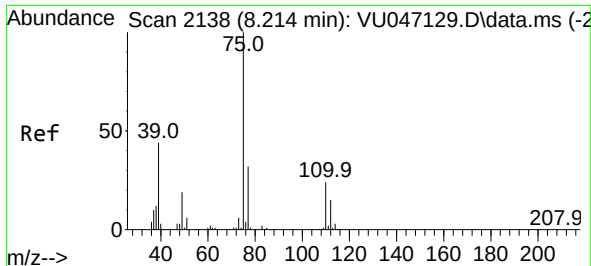
Ion Ratio Lower Upper

93 100

95 85.6 66.2 99.2

174 103.0 70.7 106.1





#50

t-1,3-Dichloropropene

Concen: 2.585 ug/l

RT: 8.214 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU047149.D

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ClientSampleId :

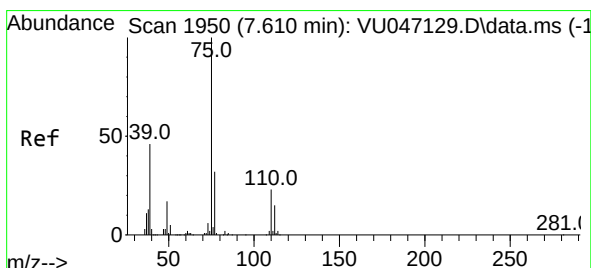
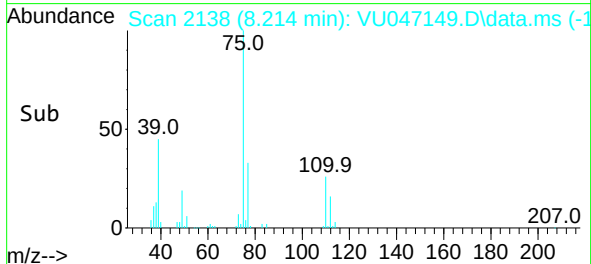
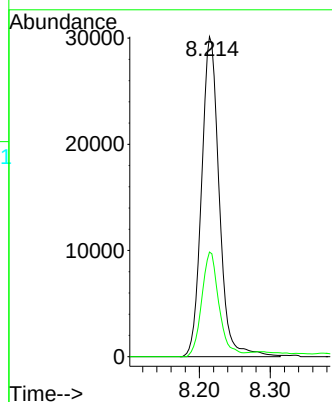
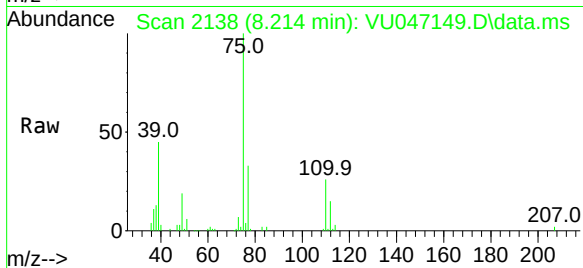
PT-UNRVOA-WSDL

Tgt Ion: 75 Resp: 52072

Ion Ratio Lower Upper

75 100

77 32.7 25.6 38.4



#51

cis-1,3-Dichloropropene

Concen: 3.320 ug/l

RT: 7.613 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

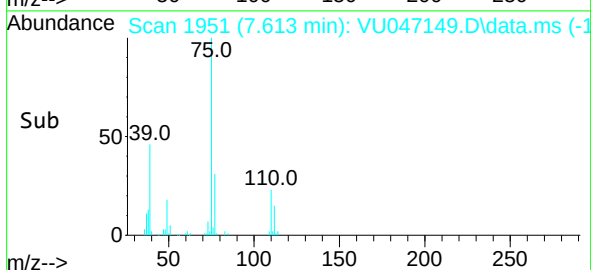
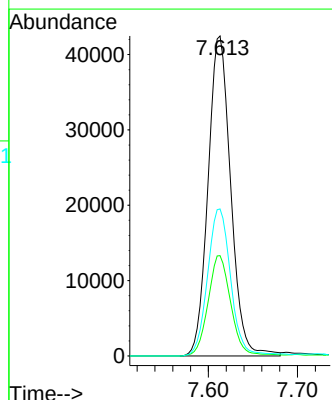
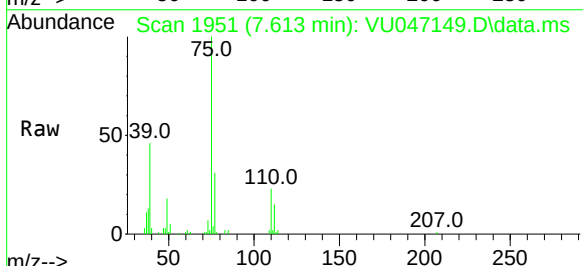
Tgt Ion: 75 Resp: 74972

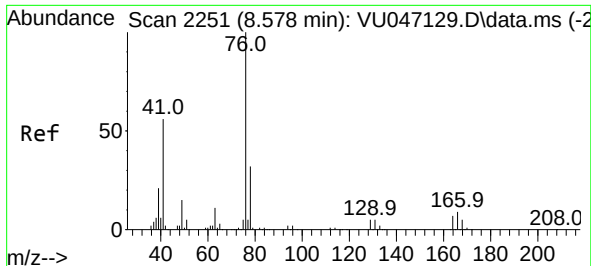
Ion Ratio Lower Upper

75 100

77 31.4 25.2 37.8

39 45.9 38.6 57.8





#53

1,3-Dichloropropane

Concen: 3.287 ug/l

RT: 8.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

Instrument :

MSVOA_U

ClientSampleId :

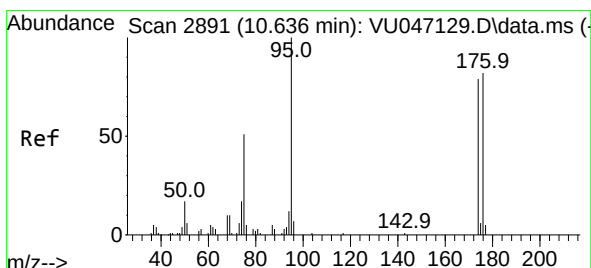
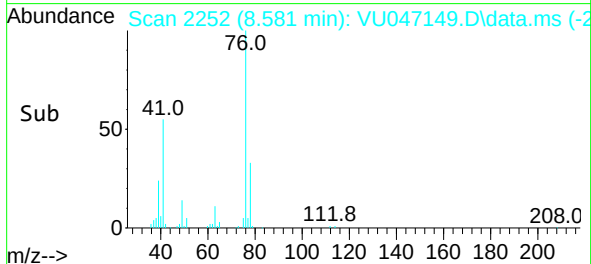
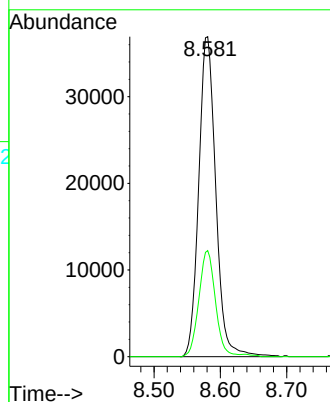
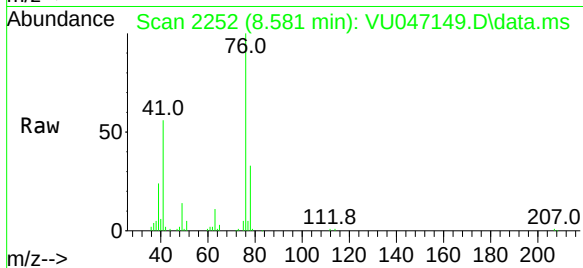
PT-UNRVOA-WSDL

Tgt Ion: 76 Resp: 65940

Ion Ratio Lower Upper

76 100

78 32.1 25.4 38.2



#57

4-Bromofluorobenzene

Concen: 0.989 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. -0.000 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

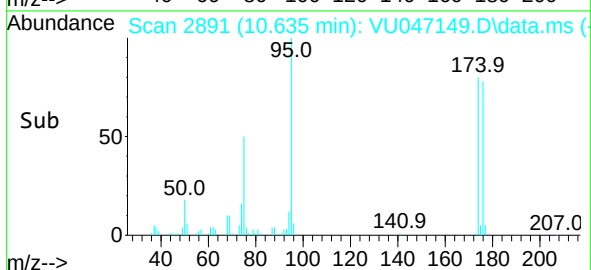
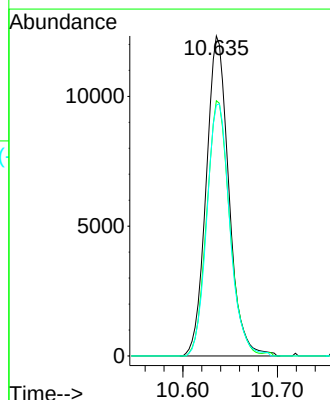
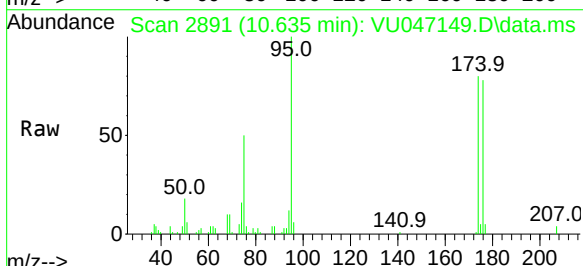
Tgt Ion: 95 Resp: 20514

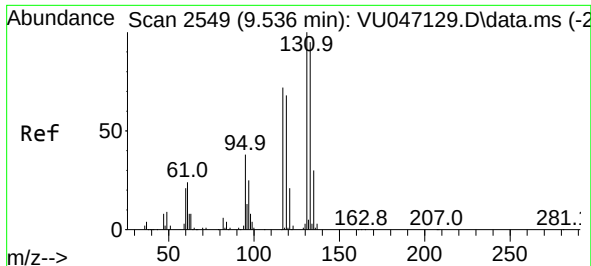
Ion Ratio Lower Upper

95 100

174 80.9 56.6 84.8

176 80.3 54.3 81.5

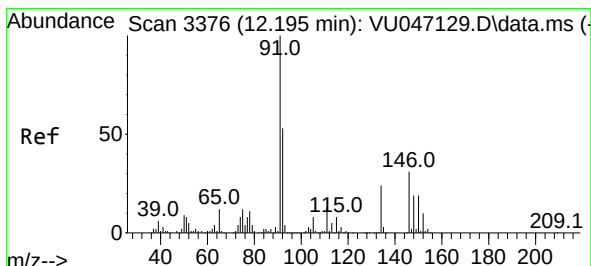
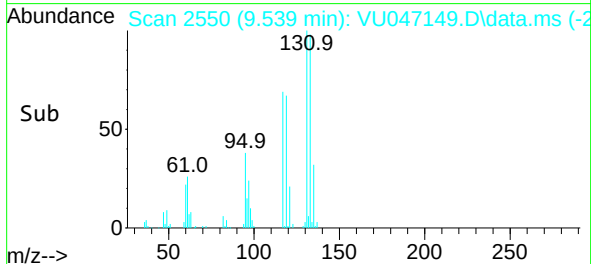
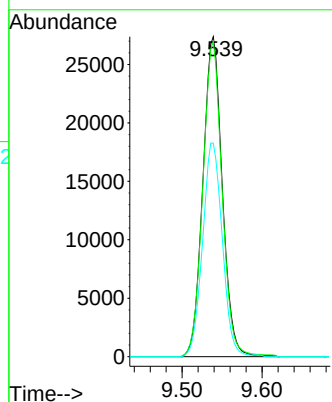
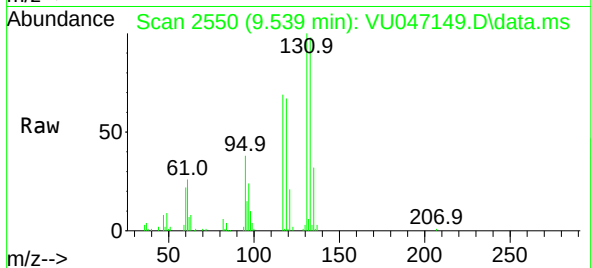




#60
 1,1,1,2-Tetrachloroethane
 Concen: 3.396 ug/l
 RT: 9.539 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VU047149.D
 Acq: 15 Feb 2022 14:37

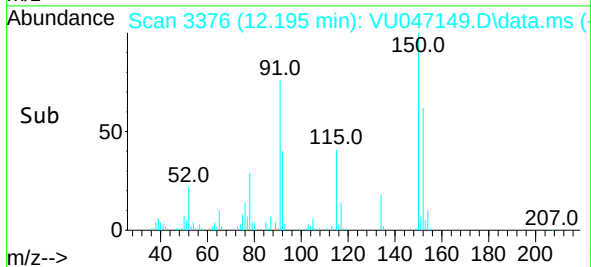
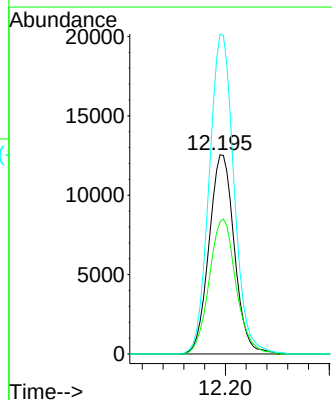
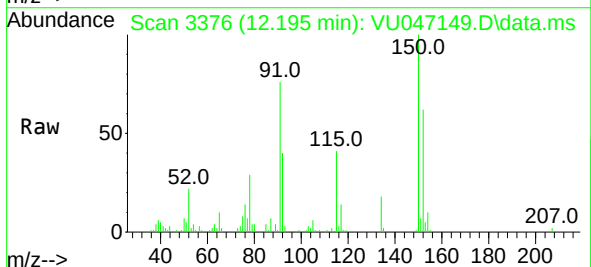
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

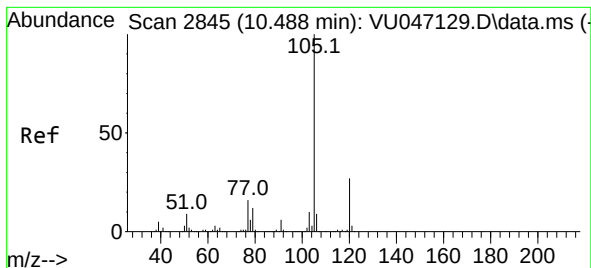
Tgt Ion:131 Resp: 46291
 Ion Ratio Lower Upper
 131 100
 133 97.8 76.0 114.0
 119 67.7 54.9 82.3



#68
 1,2-Dichlorobenzene-d4
 Concen: 0.982 ug/l
 RT: 12.195 min Scan# 3376
 Delta R.T. -0.000 min
 Lab File: VU047149.D
 Acq: 15 Feb 2022 14:37

Tgt Ion:152 Resp: 21204
 Ion Ratio Lower Upper
 152 100
 115 71.6 0.0 251.0
 150 157.8 0.0 613.8





#69

Isopropylbenzene

Concen: 2.302 ug/l

RT: 10.488 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

Instrument :

MSVOA_U

ClientSampleId :

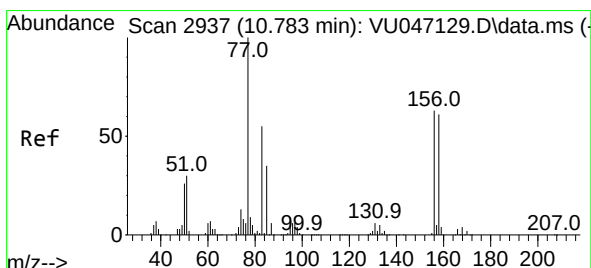
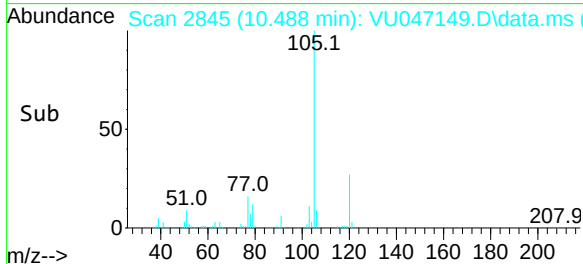
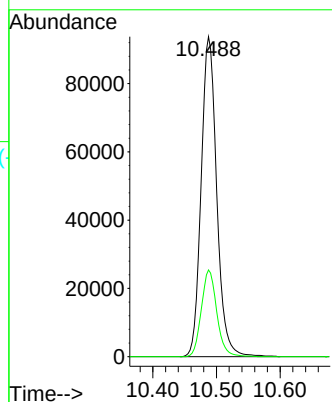
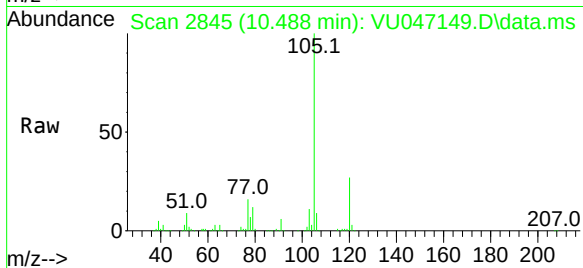
PT-UNRVOA-WSDL

Tgt Ion:105 Resp: 159337

Ion Ratio Lower Upper

105 100

120 26.9 12.8 38.4



#70

1,1,2,2-Tetrachloroethane

Concen: 3.319 ug/l

RT: 10.787 min Scan# 2938

Delta R.T. 0.003 min

Lab File: VU047149.D

Acq: 15 Feb 2022 14:37

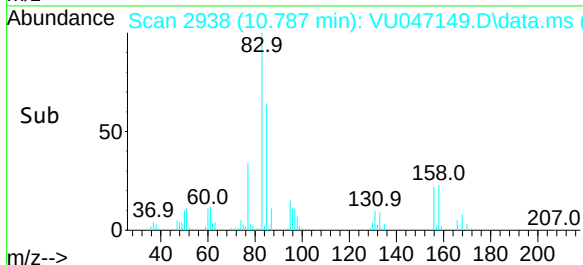
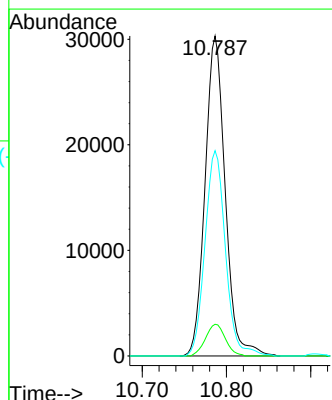
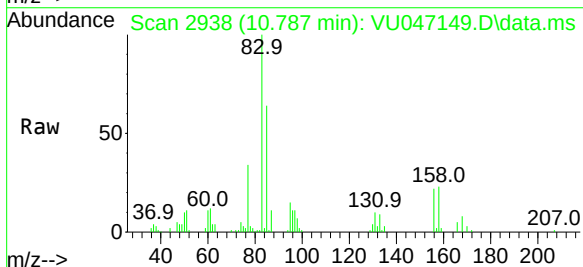
Tgt Ion: 83 Resp: 50373

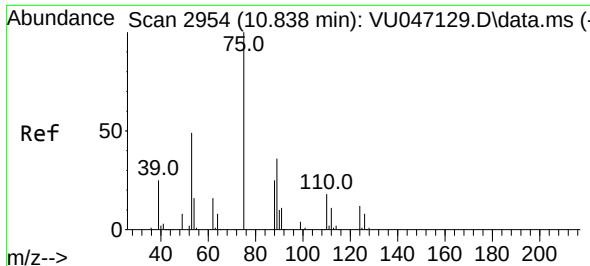
Ion Ratio Lower Upper

83 100

131 9.8 7.6 11.4

85 65.3 50.9 76.3

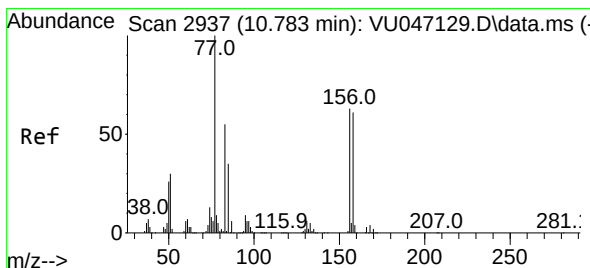
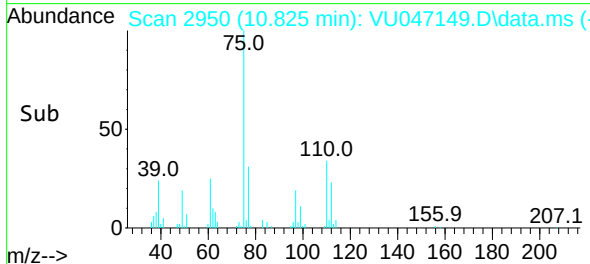
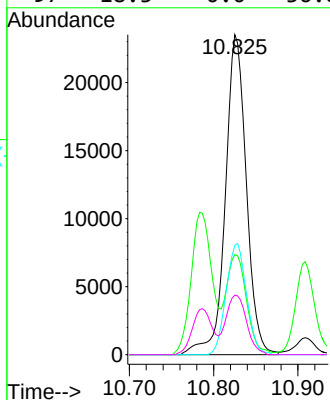
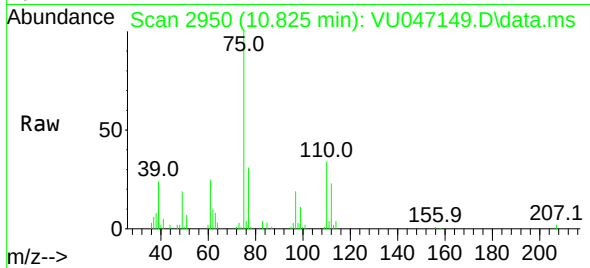




#71
1,2,3-Trichloropropane
Concen: 3.172 ug/l
RT: 10.825 min Scan# 2950
Delta R.T. -0.013 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

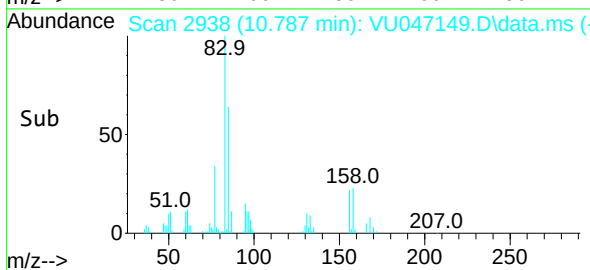
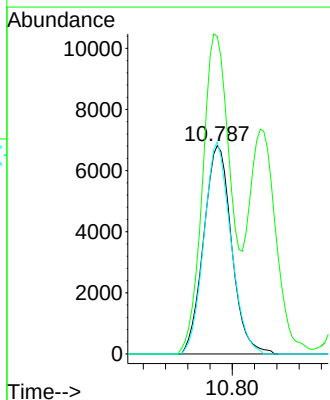
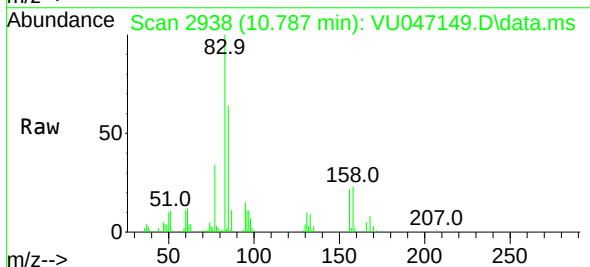
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

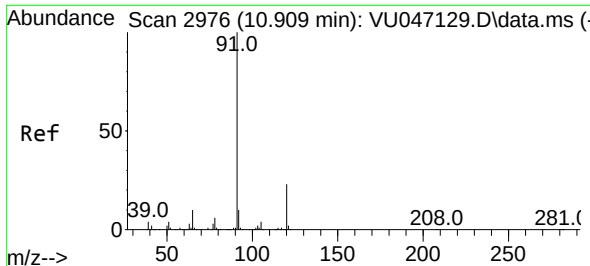
Tgt Ion:	75	Resp:	40632
Ion	Ratio	Lower	Upper
75	100		
77	30.0	0.0	105.6
110	33.6	0.0	71.2
97	18.3	0.0	36.8



#72
Bromobenzene
Concen: 0.704 ug/l
RT: 10.787 min Scan# 2938
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:	156	Resp:	11903
Ion	Ratio	Lower	Upper
156	100		
77	154.5	0.0	370.6
158	97.5	0.0	193.4

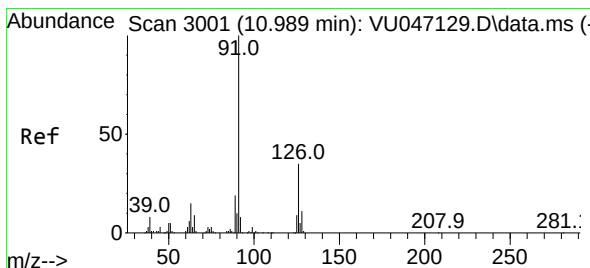
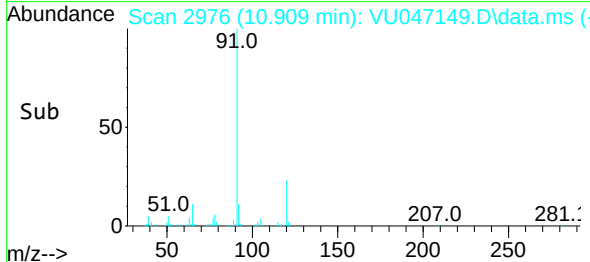
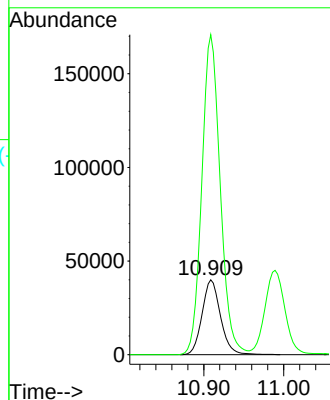
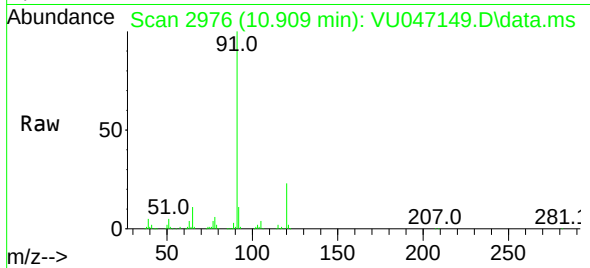




#73
n-propylbenzene
Concen: 3.365 ug/l
RT: 10.909 min Scan# 2976
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

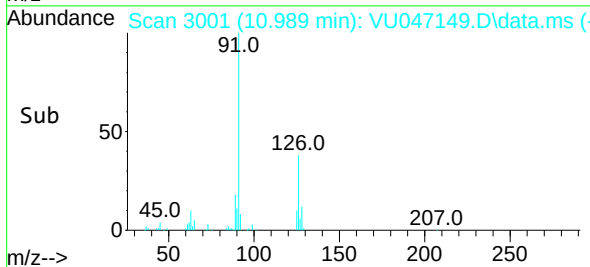
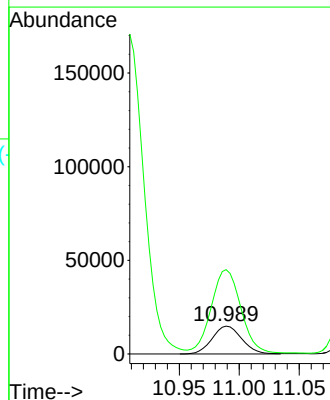
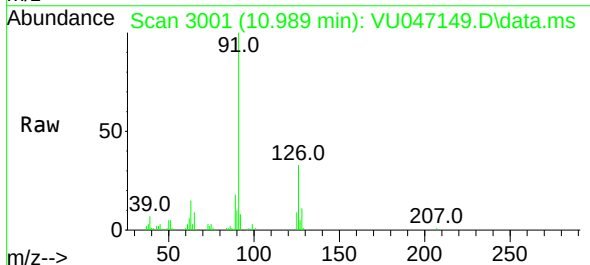
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

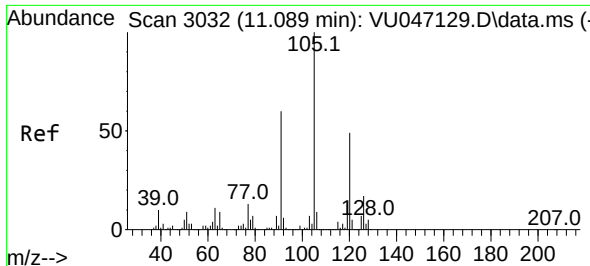
Tgt Ion:120 Resp: 64122
Ion Ratio Lower Upper
120 100
91 426.7 370.7 556.1



#74
2-Chlorotoluene
Concen: 1.567 ug/l
RT: 10.989 min Scan# 3001
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:126 Resp: 25462
Ion Ratio Lower Upper
126 100
91 310.6 0.0 639.6

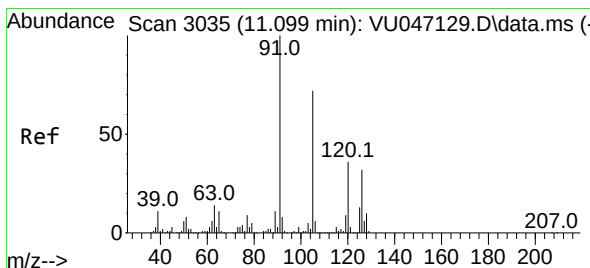
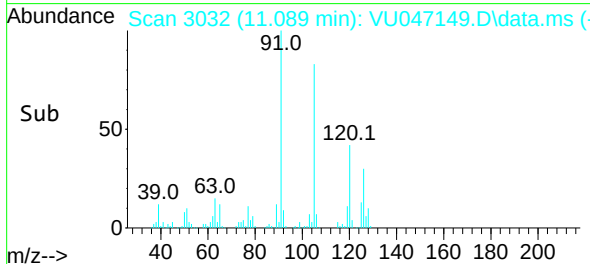
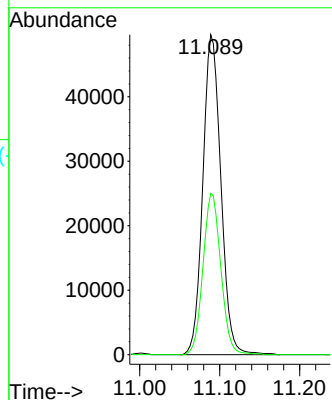
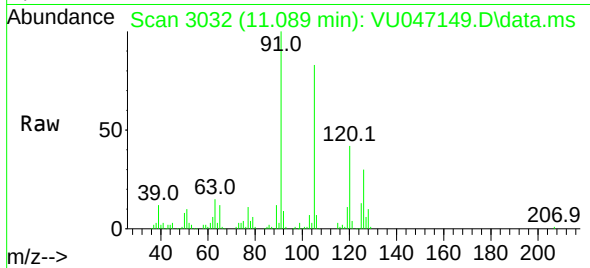




#75
1,3,5-Trimethylbenzene
Concen: 1.375 ug/l
RT: 11.089 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

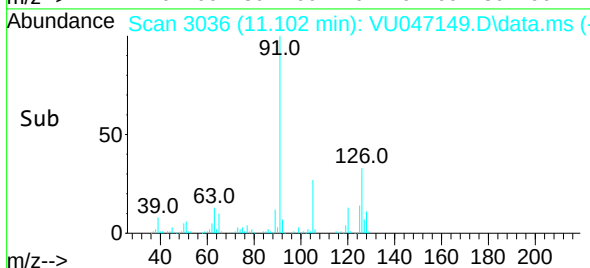
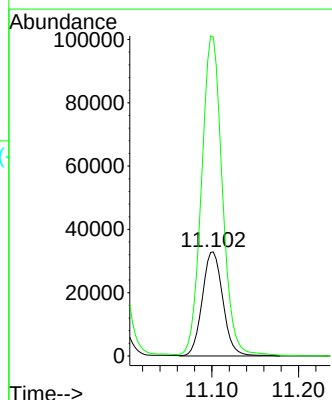
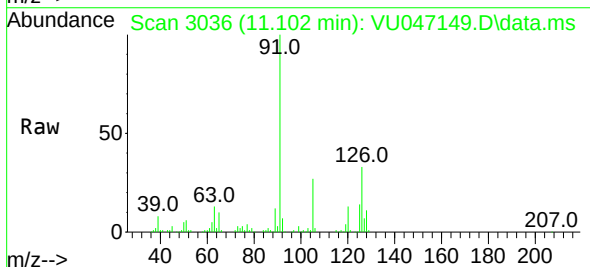
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

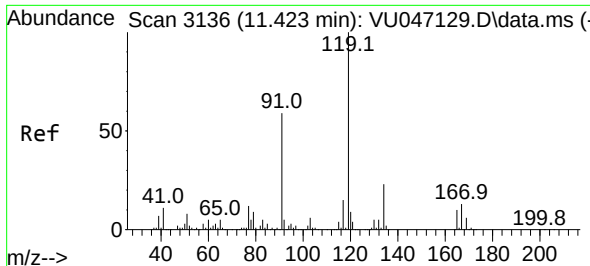
Tgt Ion:105 Resp: 78090
Ion Ratio Lower Upper
105 100
120 49.8 38.6 58.0



#76
4-Chlorotoluene
Concen: 3.188 ug/l
RT: 11.102 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:126 Resp: 54409
Ion Ratio Lower Upper
126 100
91 311.8 0.0 728.0

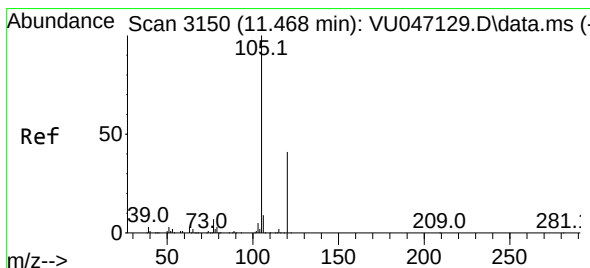
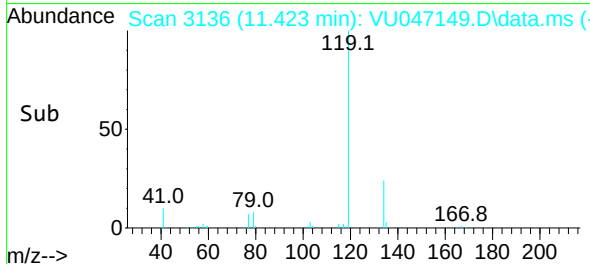
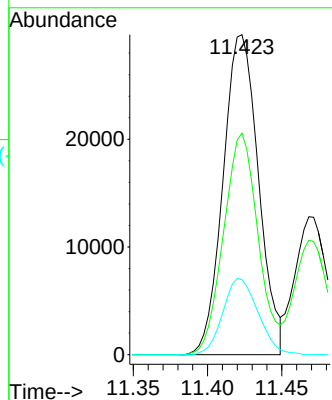
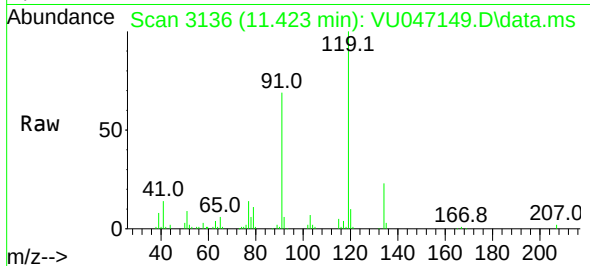




#77
tert-Butylbenzene
Concen: 0.867 ug/l
RT: 11.423 min Scan# 3136
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

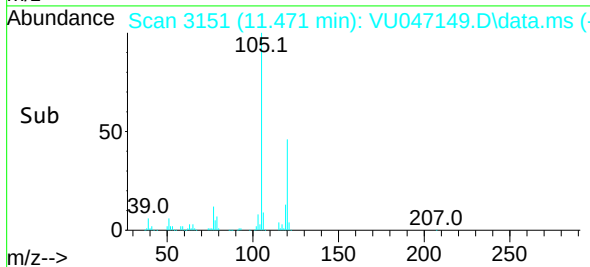
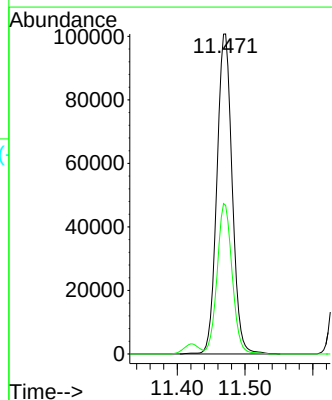
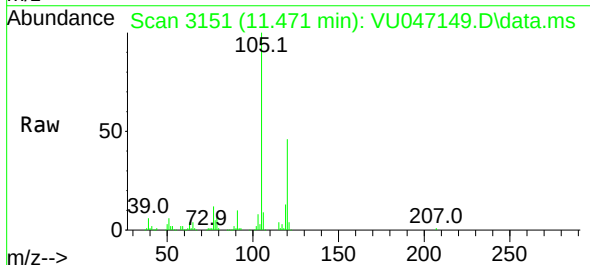
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

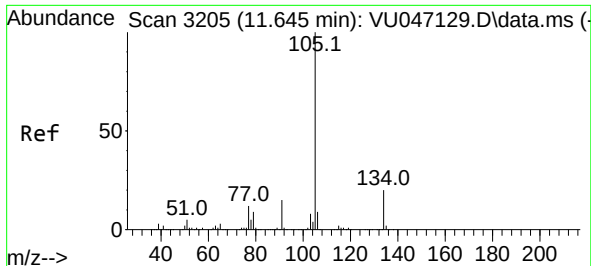
Tgt Ion:119 Resp: 49367
Ion Ratio Lower Upper
119 100
91 67.5 31.4 94.3
134 23.7 18.5 27.7



#78
1,2,4-Trimethylbenzene
Concen: 2.718 ug/l
RT: 11.471 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:105 Resp: 157472
Ion Ratio Lower Upper
105 100
120 46.3 22.3 66.8

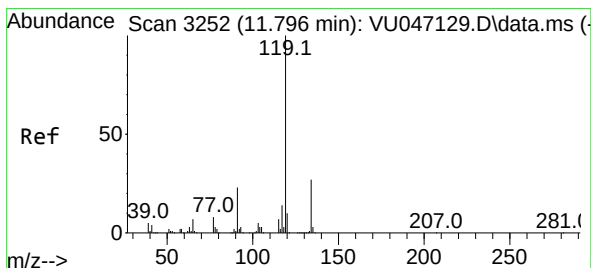
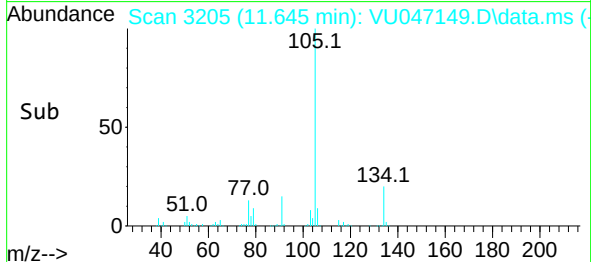
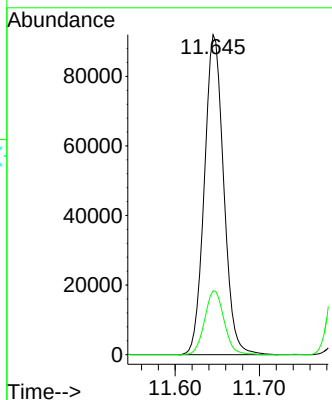
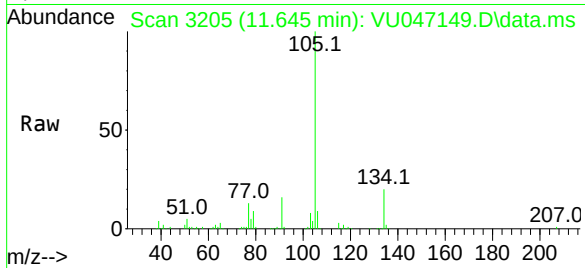




#79
 sec-Butylbenzene
 Concen: 1.940 ug/l
 RT: 11.645 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU047149.D
 Acq: 15 Feb 2022 14:37

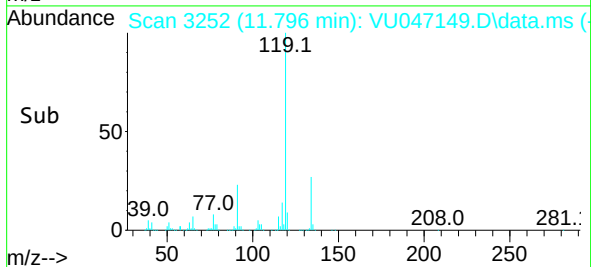
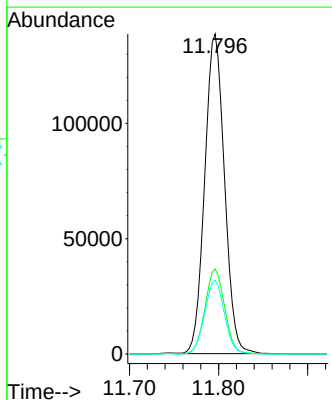
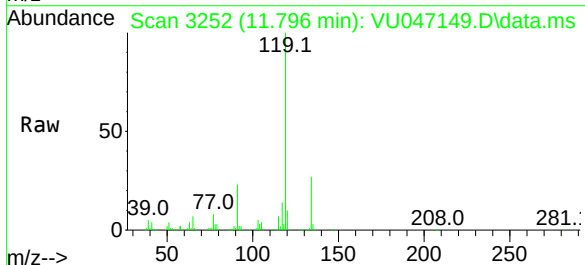
Instrument :
 MSVOA_U
 ClientSampleId :
 PT-UNRVOA-WSDL

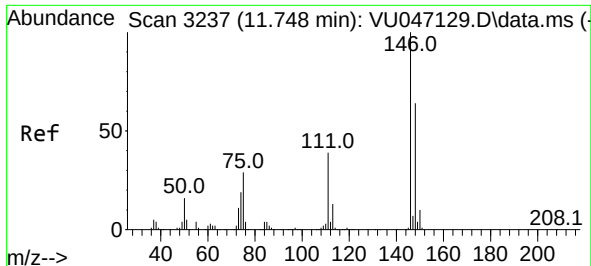
Tgt Ion:105 Resp: 146786
 Ion Ratio Lower Upper
 105 100
 134 20.1 15.4 23.0



#81
 p-Isopropyltoluene
 Concen: 3.336 ug/l
 RT: 11.796 min Scan# 3252
 Delta R.T. -0.000 min
 Lab File: VU047149.D
 Acq: 15 Feb 2022 14:37

Tgt Ion:119 Resp: 213546
 Ion Ratio Lower Upper
 119 100
 134 26.4 20.2 30.4
 91 23.2 19.9 29.9

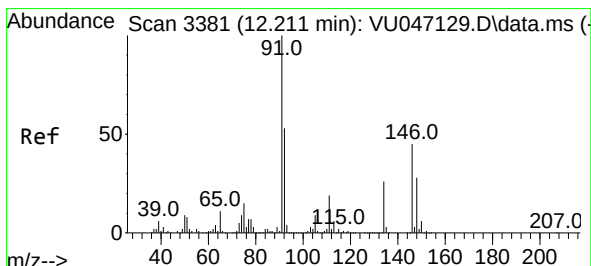
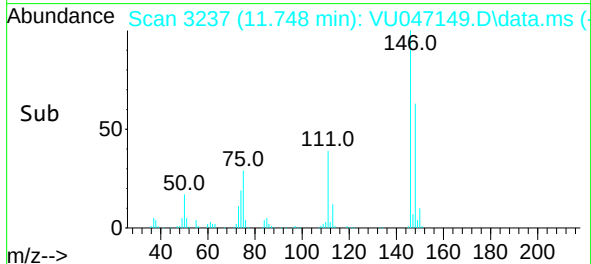
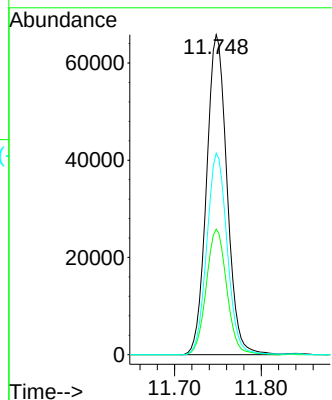
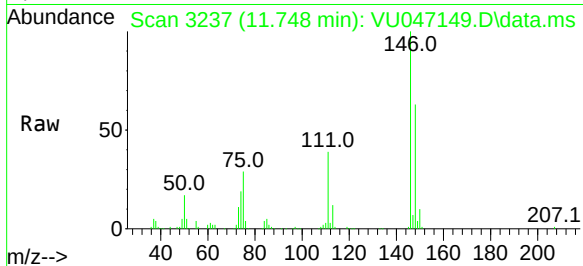




#82
1,3-Dichlorobenzene
Concen: 3.287 ug/l
RT: 11.748 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

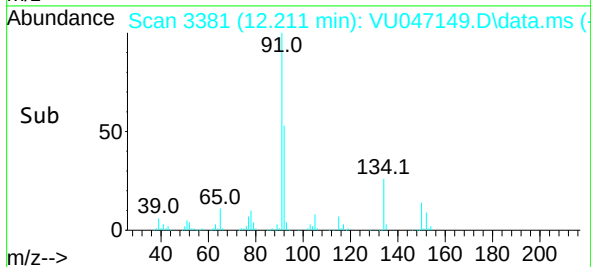
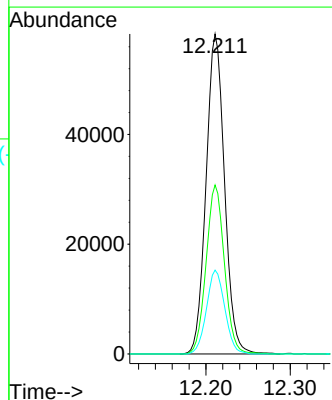
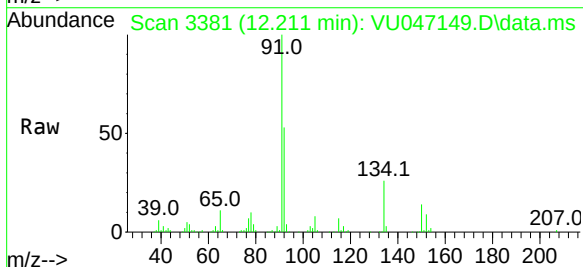
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

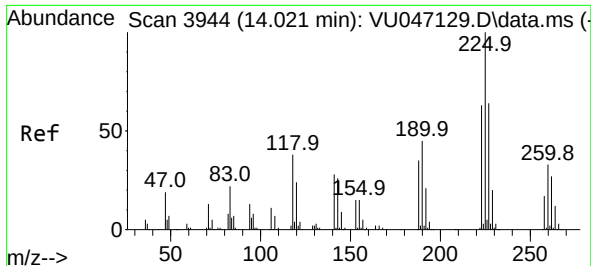
Tgt Ion:146 Resp: 108173
Ion Ratio Lower Upper
146 100
111 39.2 33.9 50.9
148 62.8 50.9 76.3



#84
n-Butylbenzene
Concen: 1.447 ug/l
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion: 91 Resp: 88951
Ion Ratio Lower Upper
91 100
92 52.3 43.5 65.3
134 26.0 19.0 28.4

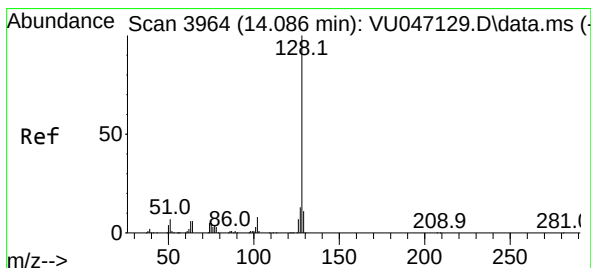
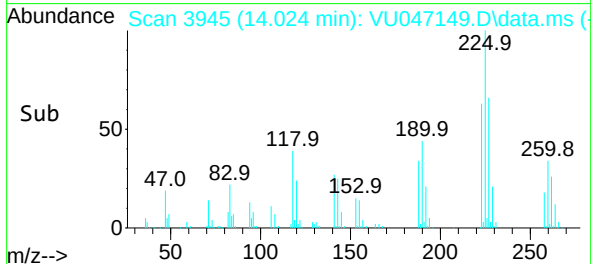
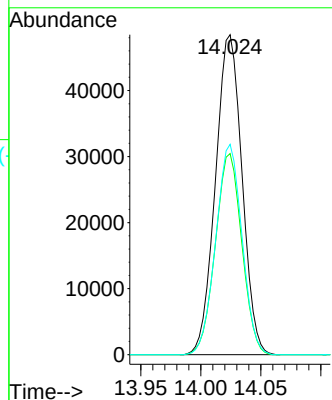
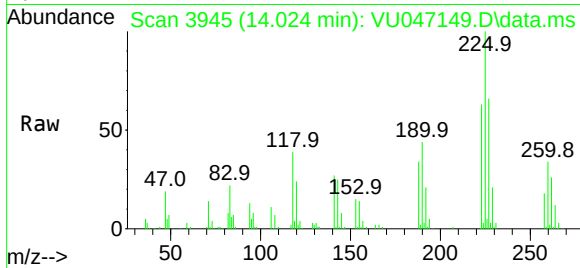




#88
Hexachlorobutadiene
Concen: 5.869 ug/l
RT: 14.024 min Scan# 3944
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

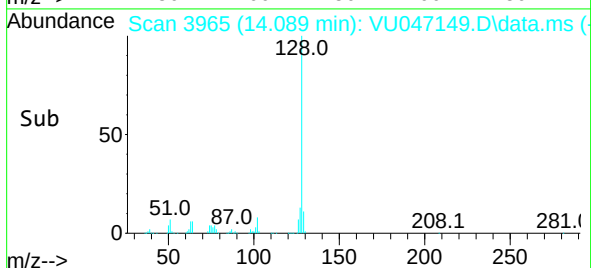
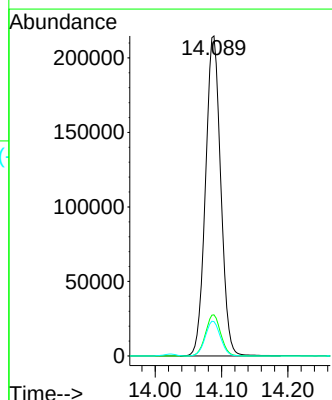
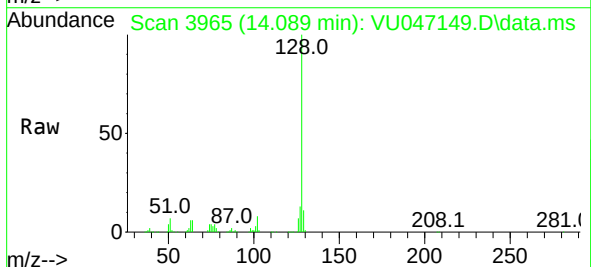
Instrument :
MSVOA_U
ClientSampleId :
PT-UNRVOA-WSDL

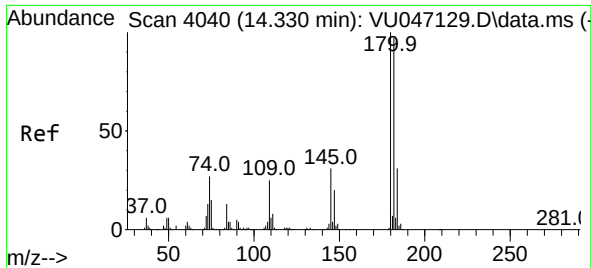
Tgt Ion:225 Resp: 74639
Ion Ratio Lower Upper
225 100
223 62.5 51.1 76.7
227 64.9 49.9 74.9



#89
Naphthalene
Concen: 6.731 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. 0.003 min
Lab File: VU047149.D
Acq: 15 Feb 2022 14:37

Tgt Ion:128 Resp: 342989
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.8 8.6 13.0





#90

1,2,3-Trichlorobenzene

Concen: 8.935 ug/l

RT: 14.330 min Scan# 40

Delta R.T. -0.000 min

Lab File: VU047149.D

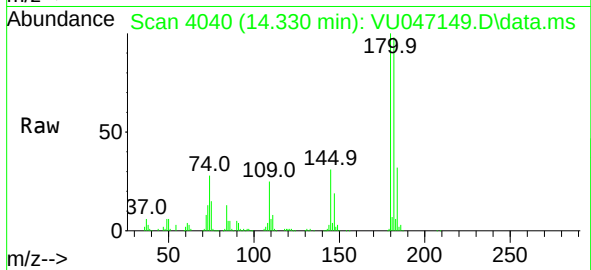
Acq: 15 Feb 2022 14:37

Instrument :

MSVOA_U

ClientSampleId :

PT-UNRVOA-WSDL



Tgt Ion:180 Resp: 199376

Ion Ratio Lower Upper

180 100

182 97.2 75.4 113.0

145 31.1 27.0 40.4

