

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021522\
 Data File : VU047150.D
 Acq On : 15 Feb 2022 15:12
 Operator : SY/MD
 Sample : N1205-07DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 17 08:04:43 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)

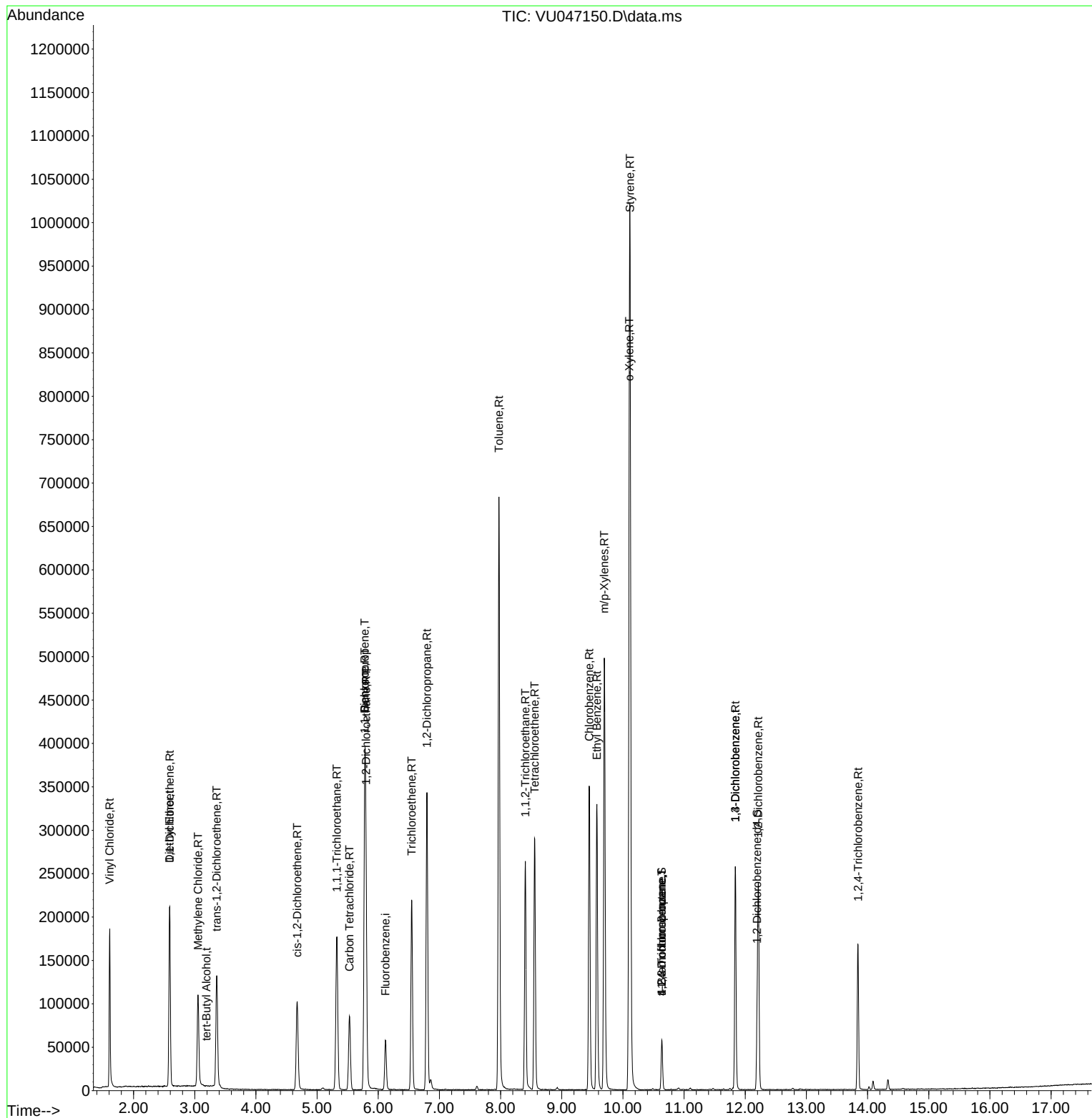
Internal Standards						
1) Fluorobenzene	6.118	96	53631	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.635	95	20294	0.977	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	21196	0.980	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.610	62	130490	7.197	ug/l	99
9) 1,1-Dichloroethene	2.591	96	71735	5.659	ug/l	95
13) Acetone	2.636	43	237	Below Cal	#	41
15) Methylene Chloride	3.054	84	51556	3.621	ug/l	97
16) trans-1,2-Dichloroethene	3.359	96	52718	3.940	ug/l	96
22) cis-1,2-Dichloroethene	4.674	96	55028	3.576	ug/l	84
23) Diethyl Ether	2.587	59	3980	0.388	ug/l	# 16
24) tert-Butyl Alcohol	3.192	59	154	0.231	ug/l	# 86
28) 1,1,1-Trichloroethane	5.324	97	128934	5.988	ug/l	97
29) 1,1-Dichloropropene	5.777	75	5800	0.294	ug/l	# 1
30) Carbon Tetrachloride	5.529	117	57348	3.029	ug/l	98
35) Benzene	5.780	78	315170	5.705	ug/l	99
36) 1,2-Dichloroethane	5.800	62	169605	10.141	ug/l	99
37) Trichloroethene	6.545	130	74559	4.875	ug/l	96
38) 1,2-Dichloropropane	6.796	63	136432	9.333	ug/l	100
46) t-1,4-Dichloro-2-butene	10.635	75	10121	2.181	ug/l	# 22
49) Toluene	7.973	92	294746	8.272	ug/l	98
52) 1,1,2-Trichloroethane	8.404	97	81761	7.269	ug/l	98
58) Tetrachloroethene	8.555	164	66701	4.726	ug/l	98
59) Chlorobenzene	9.449	112	198680	5.001	ug/l	100
63) Ethyl Benzene	9.574	91	250043	3.580	ug/l	98
64) m/p-Xylenes	9.697	106	152821	5.740	ug/l	98
65) o-Xylene	10.102	106	150859	5.850	ug/l	95
66) Styrene	10.118	104	393404	8.988	ug/l	94
71) 1,2,3-Trichloropropane	10.635	75	10121	0.789	ug/l	# 37
82) 1,3-Dichlorobenzene	11.838	146	107402	3.257	ug/l	97
83) 1,4-Dichlorobenzene	11.838	146	107402	3.233	ug/l	98
85) 1,2-Dichlorobenzene	12.214	146	94494	2.977	ug/l	97
87) 1,2,4-Trichlorobenzene	13.844	180	53233	2.136	ug/l	98

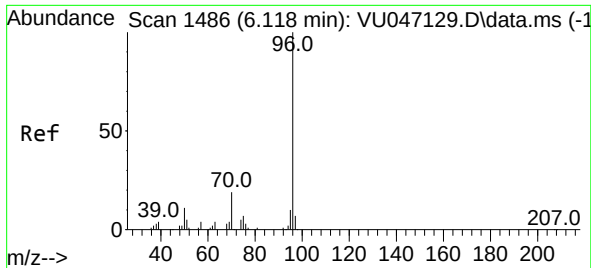
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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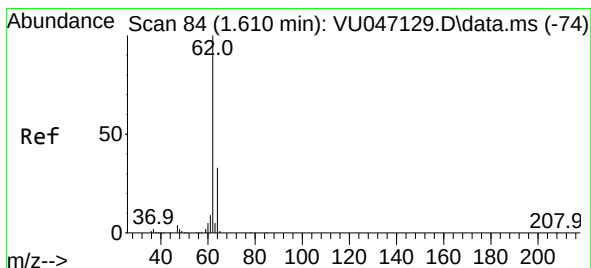
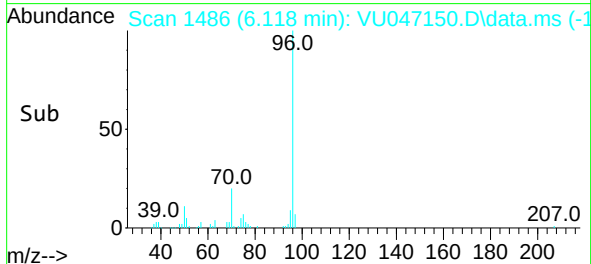
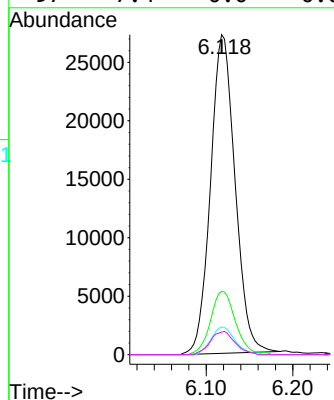
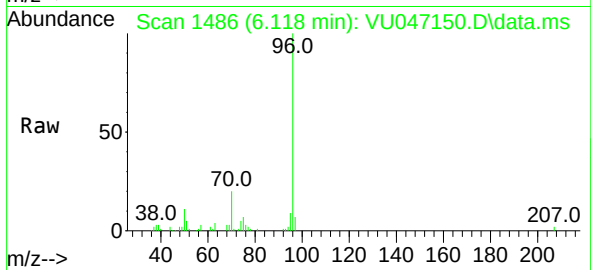




#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.118 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

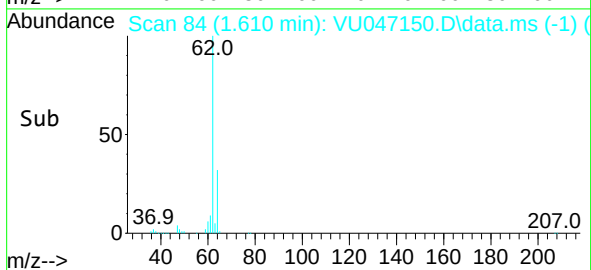
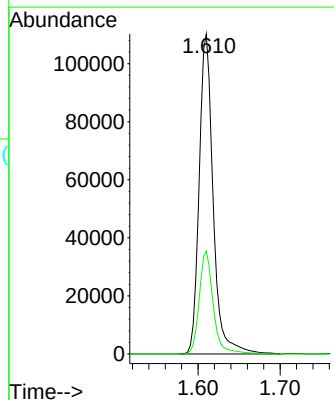
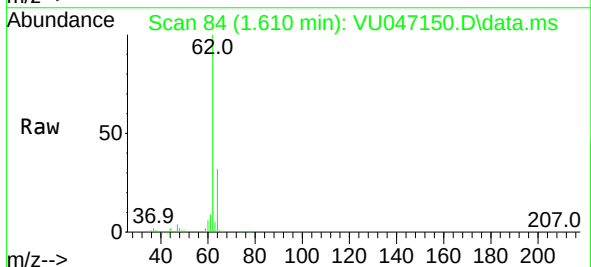
Instrument :
MSVOA_U
ClientSampleId :

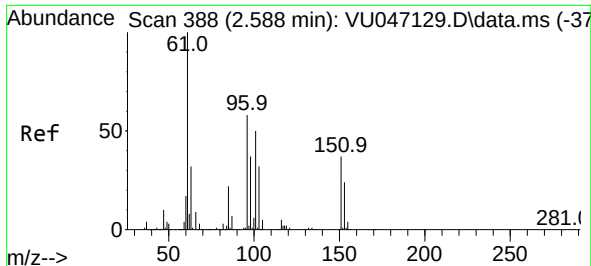
Tgt Ion: 96	Resp: 53631
Ion Ratio	Lower Upper
96 100	
70 20.3	16.8 25.2
95 8.5	7.3 10.9
97 7.4	0.0 0.0#



#4
Vinyl Chloride
Concen: 7.197 ug/l
RT: 1.610 min Scan# 84
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

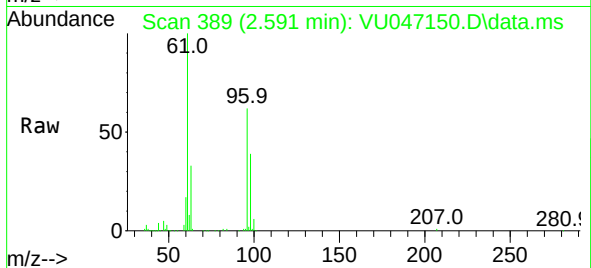
Tgt Ion: 62	Resp: 130490
Ion Ratio	Lower Upper
62 100	
64 32.2	26.0 39.0



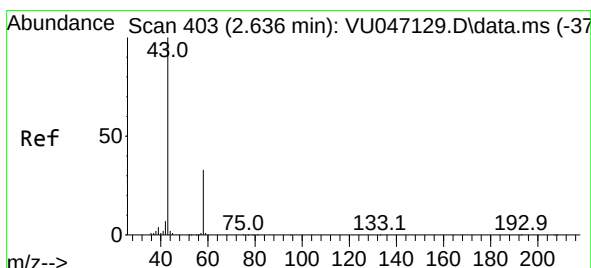
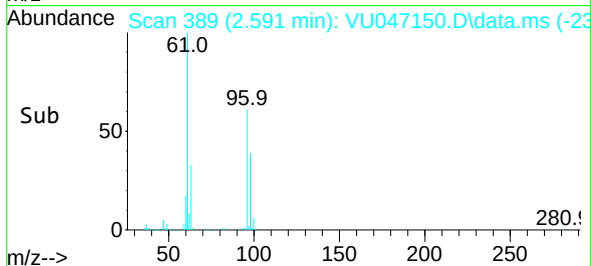
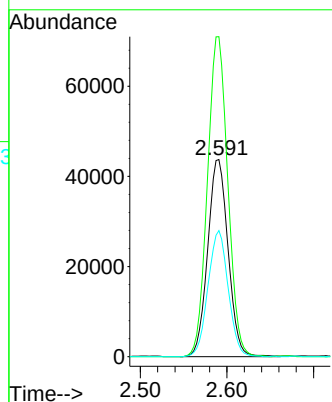


#9
1,1-Dichloroethene
Concen: 5.659 ug/l
RT: 2.591 min Scan# 389
Delta R.T. 0.003 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Instrument :
MSVOA_U
ClientSampleId :

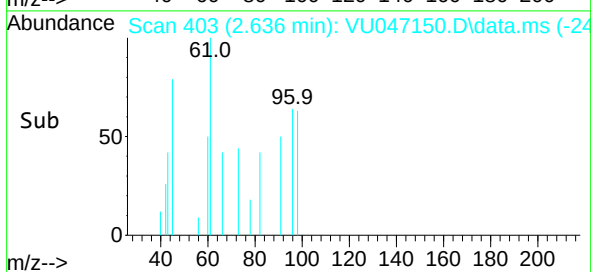
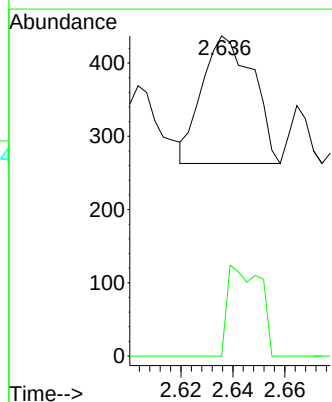
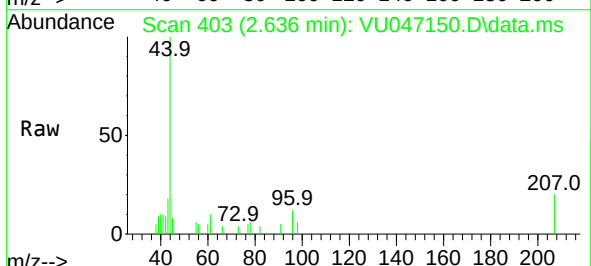


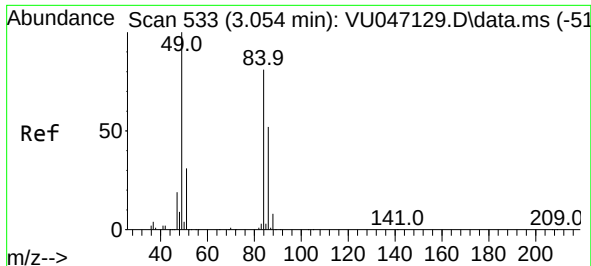
Tgt Ion: 96 Resp: 71735
Ion Ratio Lower Upper
96 100
61 162.3 0.0 514.2
98 63.9 0.0 126.4



#13
Acetone
Concen: Below Cal
RT: 2.636 min Scan# 403
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

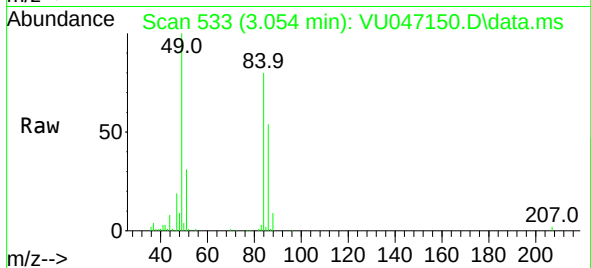
Tgt Ion: 43 Resp: 237
Ion Ratio Lower Upper
43 100
58 0.0 27.1 40.7#



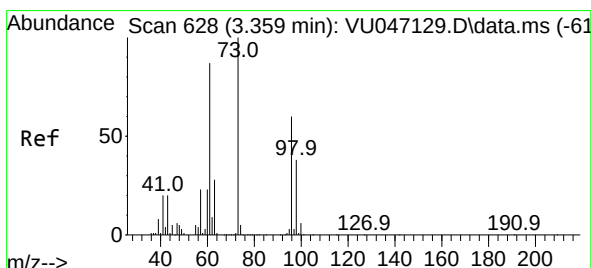
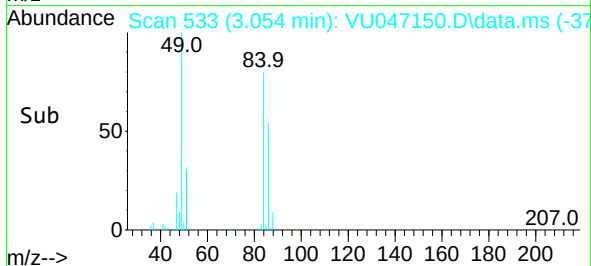
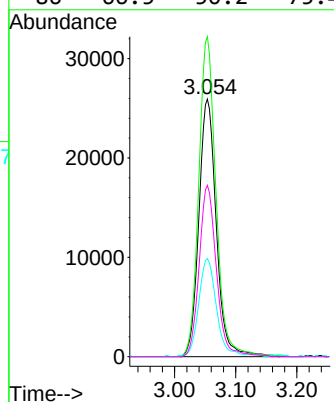


#15
Methylene Chloride
Concen: 3.621 ug/l
RT: 3.054 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Instrument :
MSVOA_U
ClientSampleId :

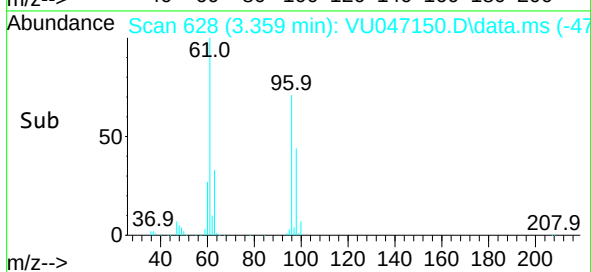
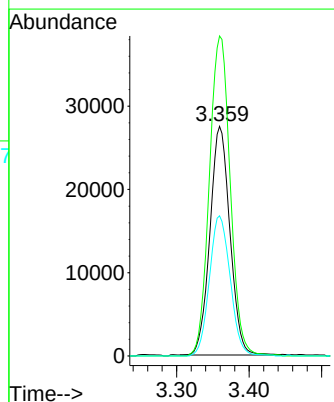
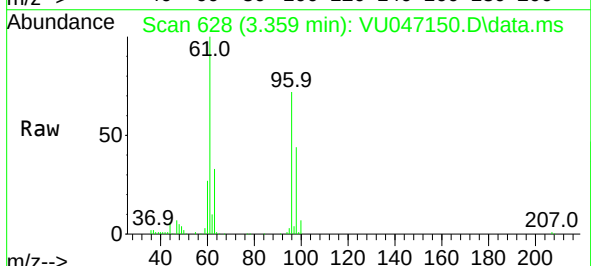


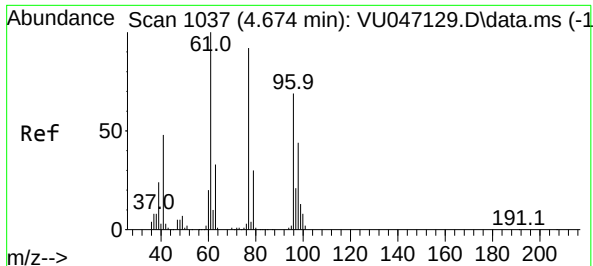
Tgt Ion:	84	Resp:	51556
Ion	Ratio	Lower	Upper
84	100		
49	124.3	97.2	145.8
51	37.6	0.0	73.4
86	66.5	50.2	75.4



#16
trans-1,2-Dichloroethene
Concen: 3.940 ug/l
RT: 3.359 min Scan# 628
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion:	96	Resp:	52718
Ion	Ratio	Lower	Upper
96	100		
61	139.9	115.8	173.6
98	61.3	51.1	76.7





#22

cis-1,2-Dichloroethene

Concen: 3.576 ug/l

RT: 4.674 min Scan# 1037

Delta R.T. -0.000 min

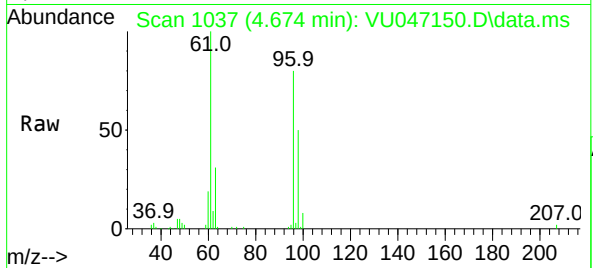
Lab File: VU047150.D

Acq: 15 Feb 2022 15:12

Instrument :

MSVOA_U

ClientSampleId :



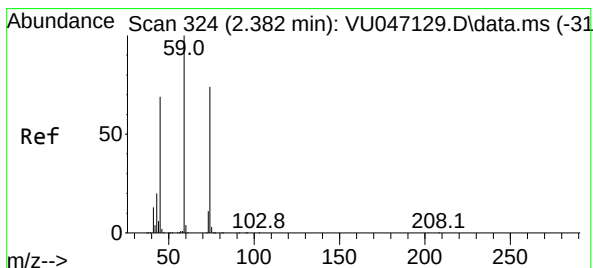
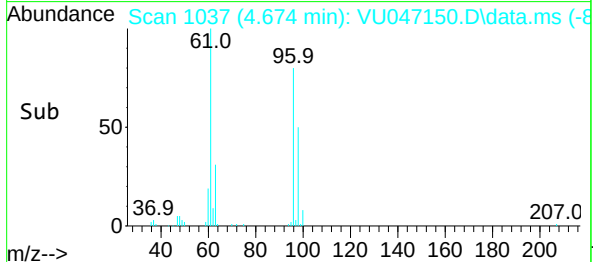
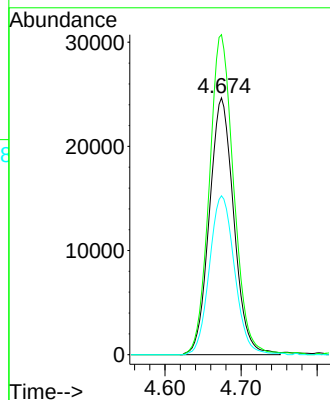
Tgt Ion: 96 Resp: 55028

Ion Ratio Lower Upper

96 100

61 124.7 0.0 385.3

98 63.4 32.1 96.3



#23

Diethyl Ether

Concen: 0.388 ug/l

RT: 2.587 min Scan# 388

Delta R.T. 0.206 min

Lab File: VU047150.D

Acq: 15 Feb 2022 15:12

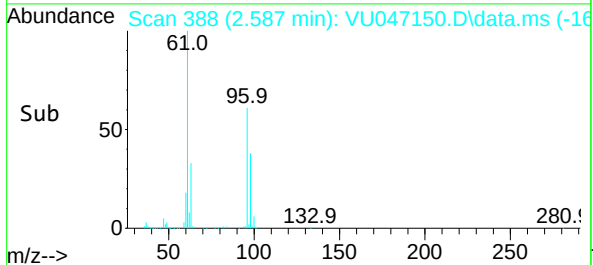
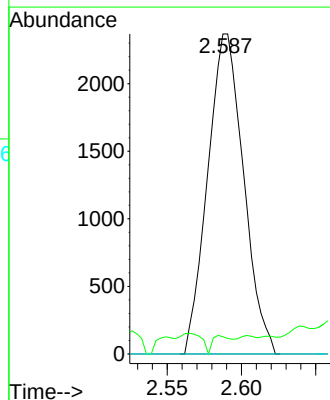
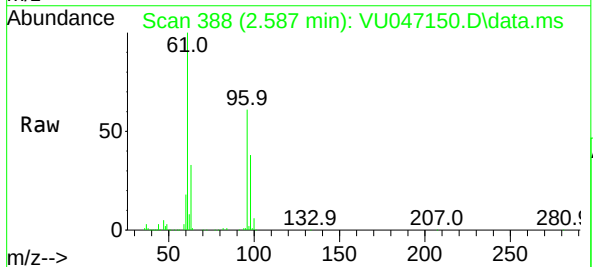
Tgt Ion: 59 Resp: 3980

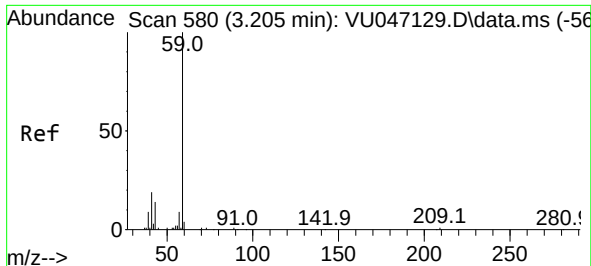
Ion Ratio Lower Upper

59 100

45 2.9 55.6 83.4#

74 0.0 58.1 87.1#

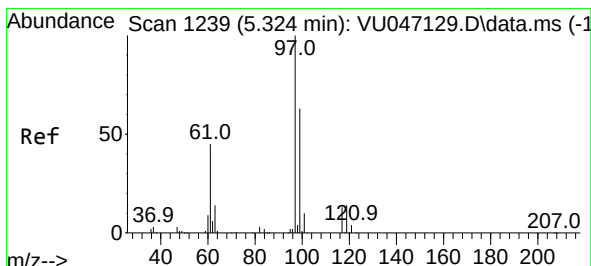
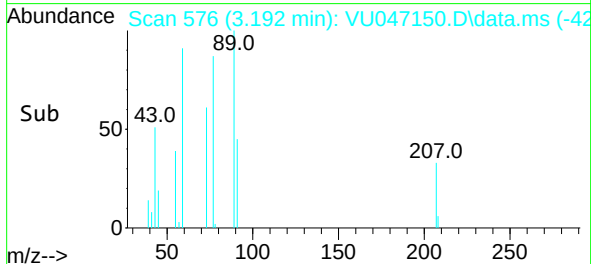
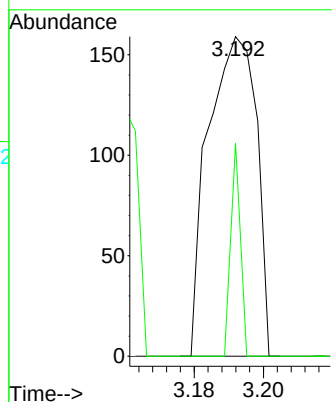
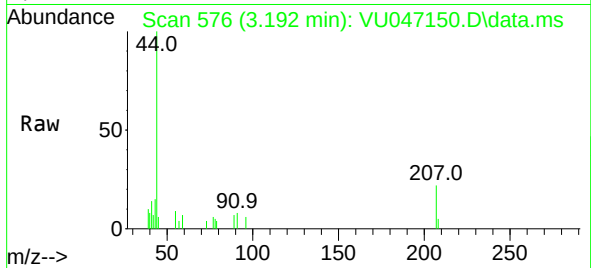




#24
tert-Butyl Alcohol
Concen: 0.231 ug/l
RT: 3.192 min Scan# 51
Delta R.T. -0.013 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

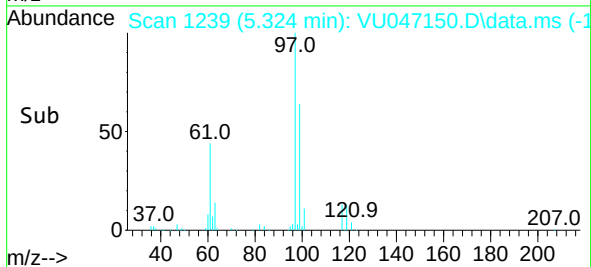
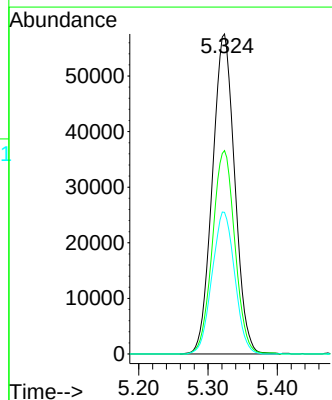
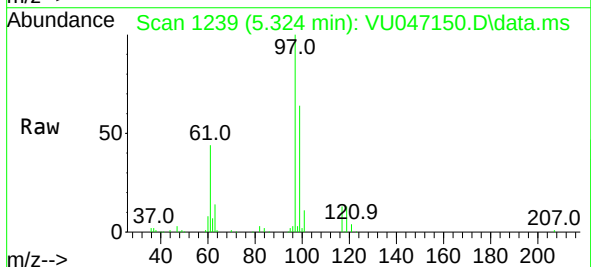
Instrument :
MSVOA_U
ClientSampleId :

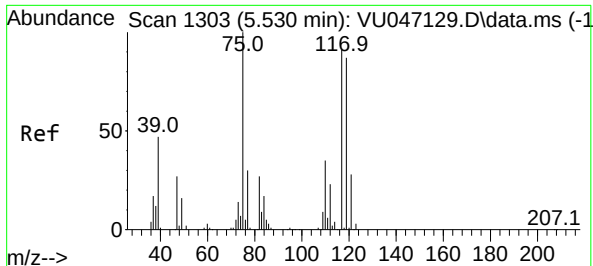
Tgt Ion: 59 Resp: 154
Ion Ratio Lower Upper
59 100
57 13.0 6.5 9.7#



#28
1,1,1-Trichloroethane
Concen: 5.988 ug/l
RT: 5.324 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion: 97 Resp: 128934
Ion Ratio Lower Upper
97 100
99 63.7 32.2 96.6
61 44.9 24.5 73.5





#29

1,1-Dichloropropene

Concen: 0.294 ug/l

RT: 5.777 min Scan# 11

Delta R.T. 0.247 min

Lab File: VU047150.D

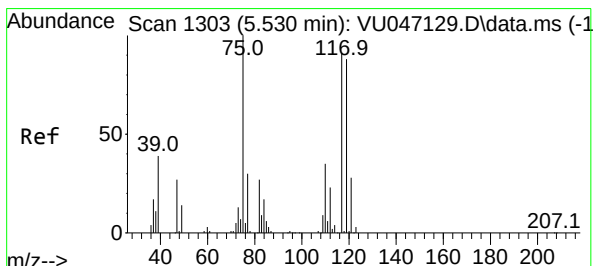
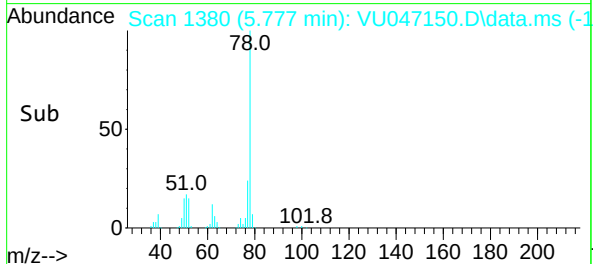
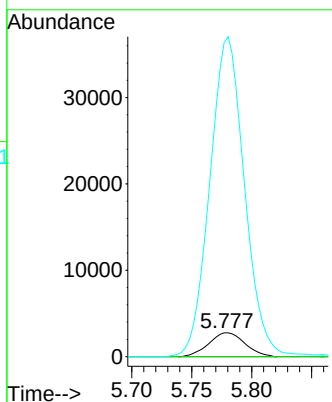
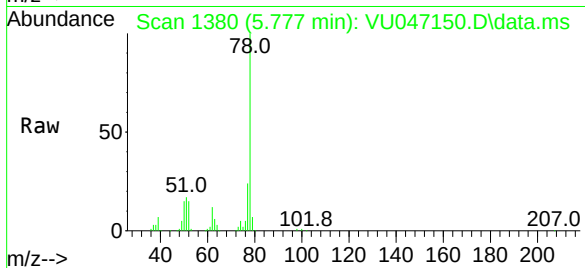
Acq: 15 Feb 2022 15:12

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 75 Resp: 5800
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.8 50.3#
 77 1291.0 24.7 37.1#



#30

Carbon Tetrachloride

Concen: 3.029 ug/l

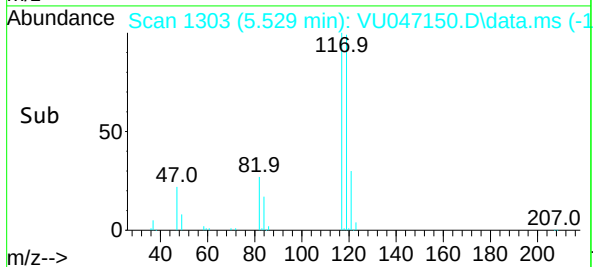
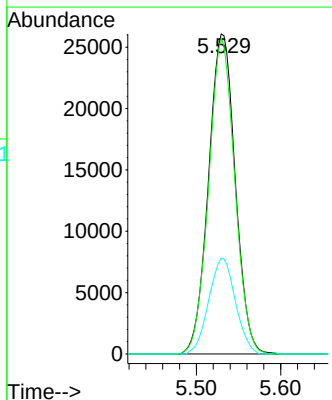
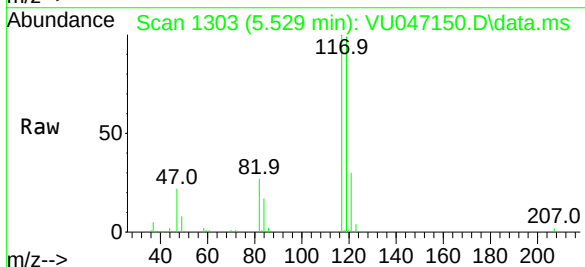
RT: 5.529 min Scan# 1303

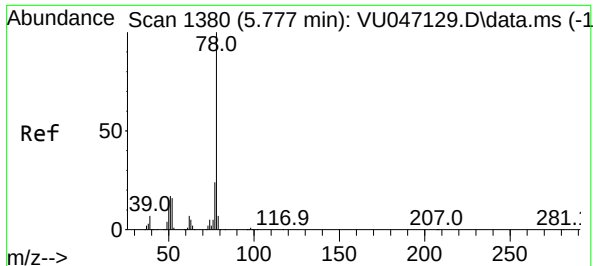
Delta R.T. -0.000 min

Lab File: VU047150.D

Acq: 15 Feb 2022 15:12

Tgt Ion: 117 Resp: 57348
 Ion Ratio Lower Upper
 117 100
 119 98.6 76.8 115.2
 121 29.9 24.6 37.0

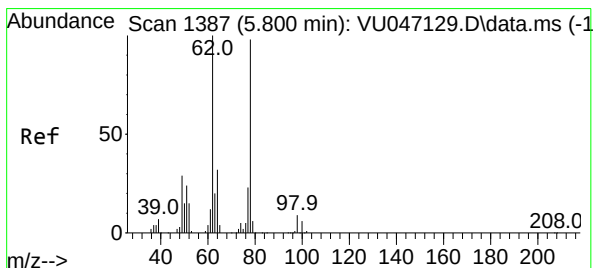
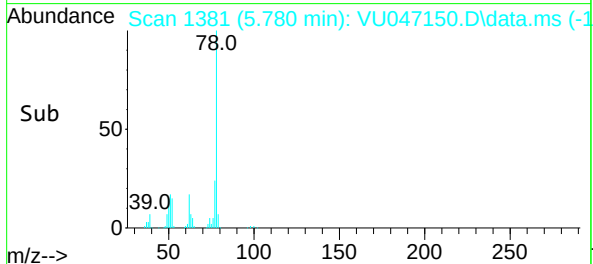
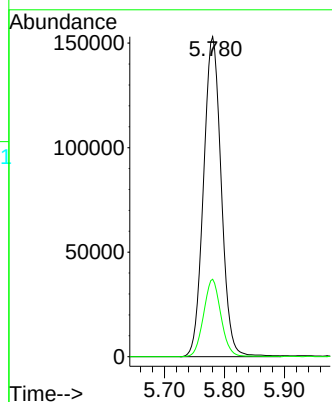
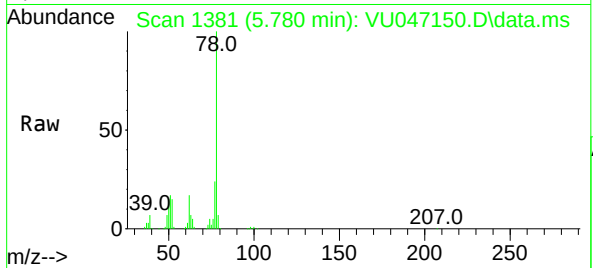




#35
Benzene
Concen: 5.705 ug/l
RT: 5.780 min Scan# 1380
Delta R.T. 0.003 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

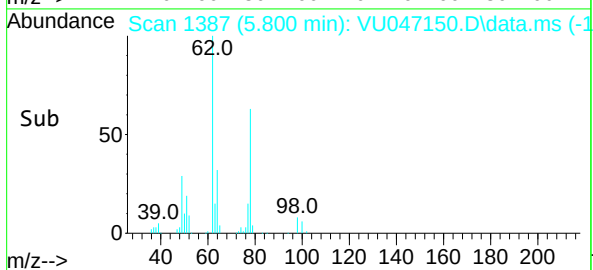
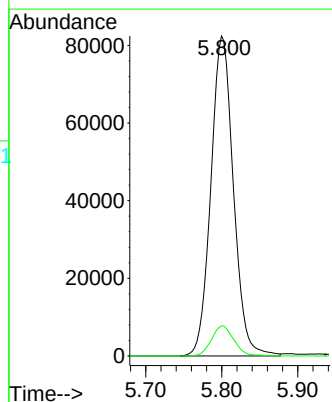
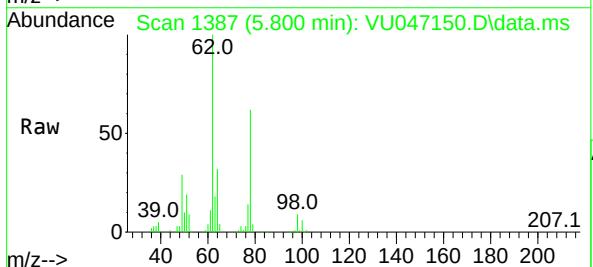
Instrument :
MSVOA_U
ClientSampleId :

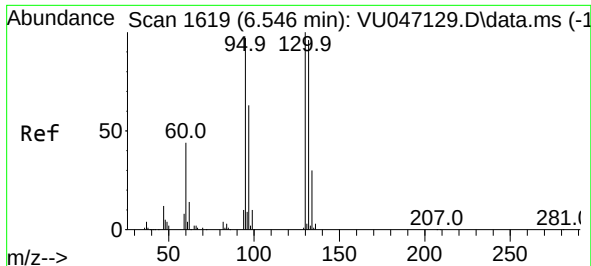
Tgt Ion: 78 Resp: 315170
Ion Ratio Lower Upper
78 100
77 24.2 19.1 28.7



#36
1,2-Dichloroethane
Concen: 10.141 ug/l
RT: 5.800 min Scan# 1387
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion: 62 Resp: 169605
Ion Ratio Lower Upper
62 100
98 9.4 7.3 10.9





#37

Trichloroethene

Concen: 4.875 ug/l

RT: 6.545 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU047150.D

Acq: 15 Feb 2022 15:12

Instrument :

MSVOA_U

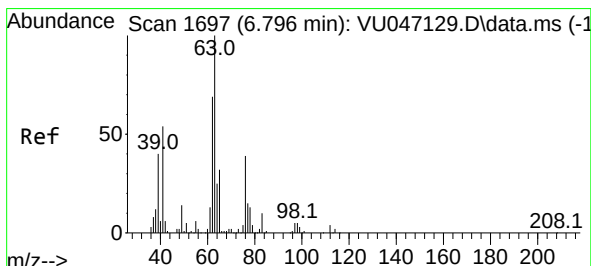
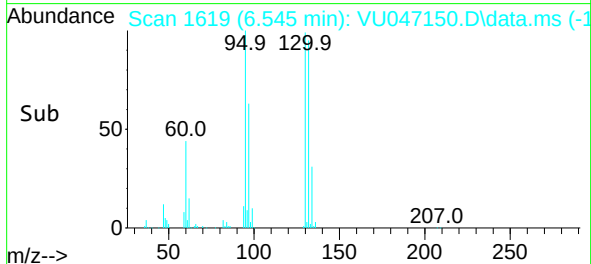
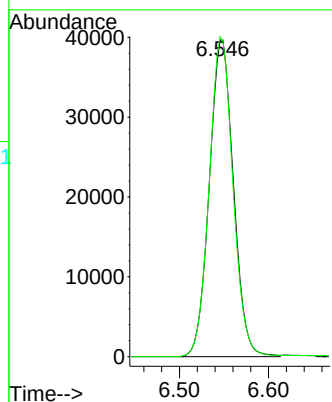
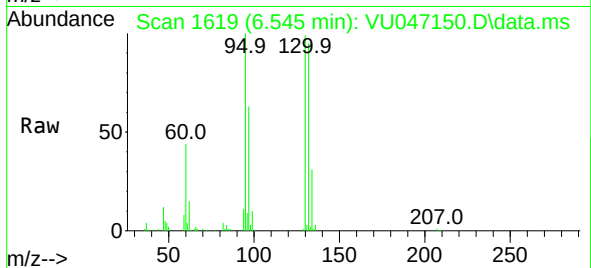
ClientSampleId :

Tgt Ion:130 Resp: 74559

Ion Ratio Lower Upper

130 100

95 101.0 83.8 125.8



#38

1,2-Dichloropropane

Concen: 9.333 ug/l

RT: 6.796 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VU047150.D

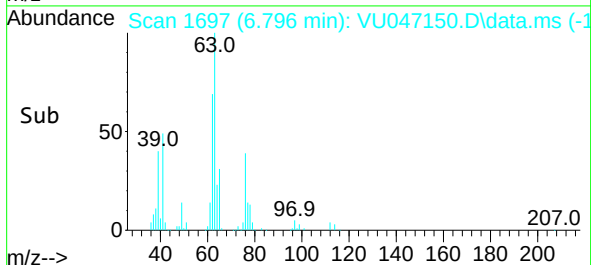
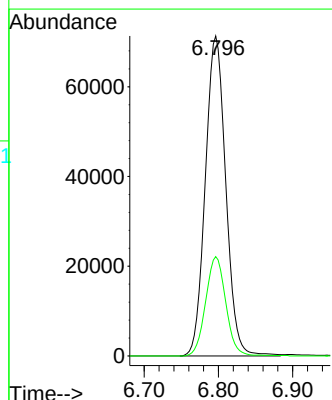
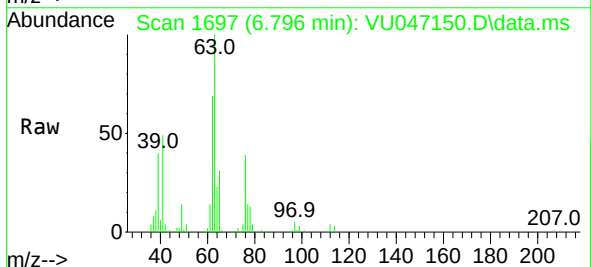
Acq: 15 Feb 2022 15:12

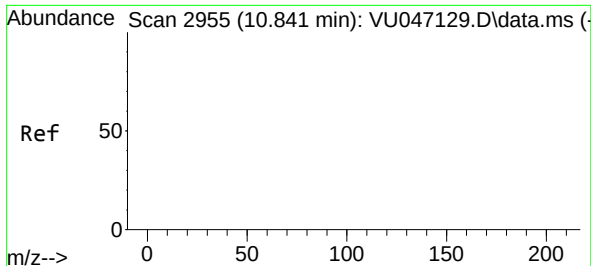
Tgt Ion: 63 Resp: 136432

Ion Ratio Lower Upper

63 100

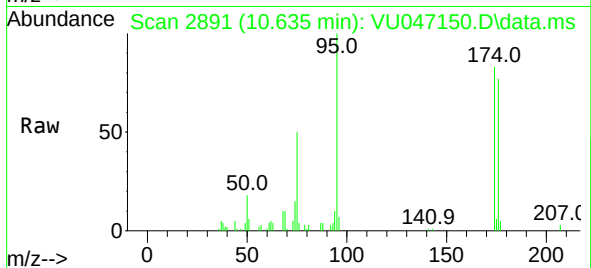
65 31.0 24.7 37.1



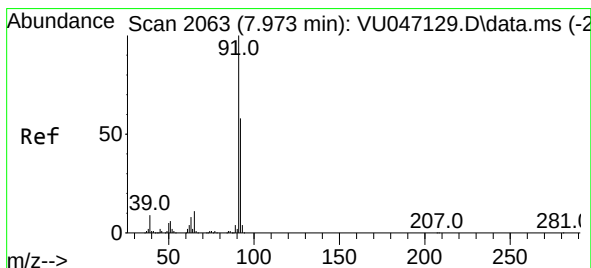
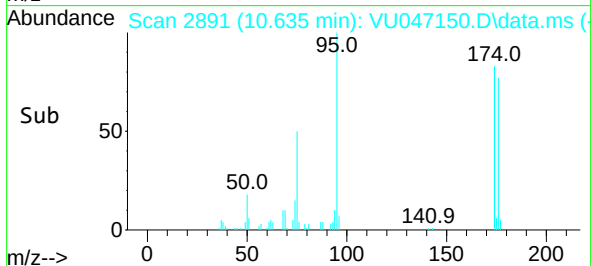
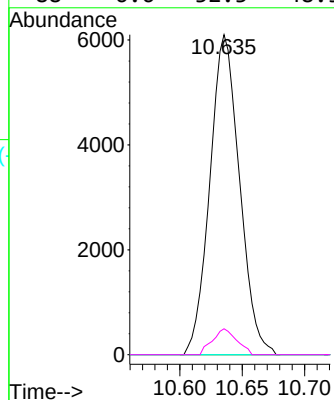


#46
t-1,4-Dichloro-2-butene
Concen: 2.181 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.206 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Instrument : MSVOA_U
ClientSampleId :

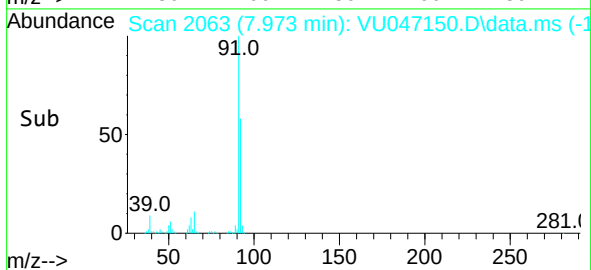
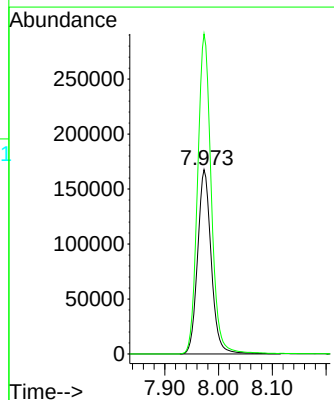
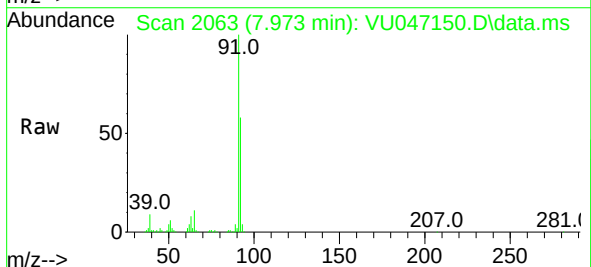


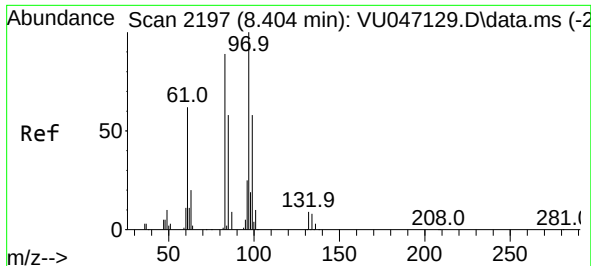
Tgt Ion:	75	Resp:	10121
Ion	Ratio	Lower	Upper
75	100		
53	0.0	66.8	100.2#
89	0.0	41.7	62.5#
88	6.6	32.3	48.5#



#49
Toluene
Concen: 8.272 ug/l
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion:	92	Resp:	294746
Ion	Ratio	Lower	Upper
92	100		
91	174.0	136.8	205.2

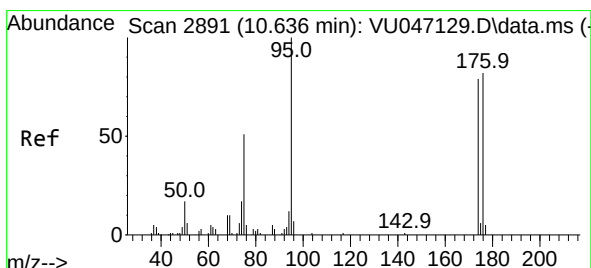
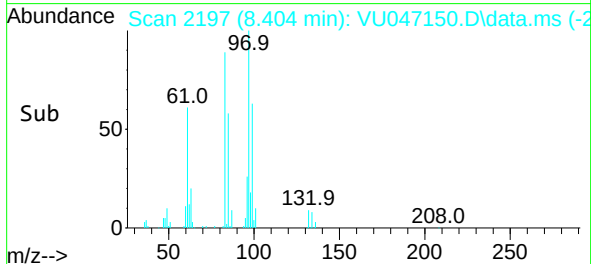
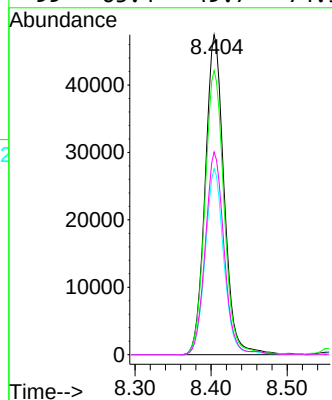
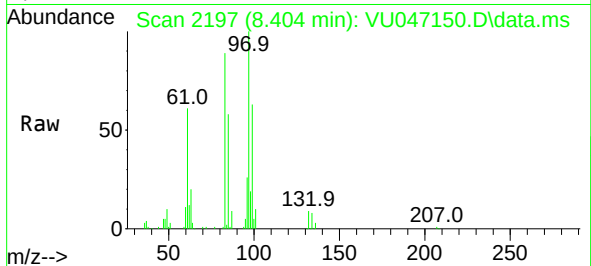




#52
1,1,2-Trichloroethane
Concen: 7.269 ug/l
RT: 8.404 min Scan# 2197
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

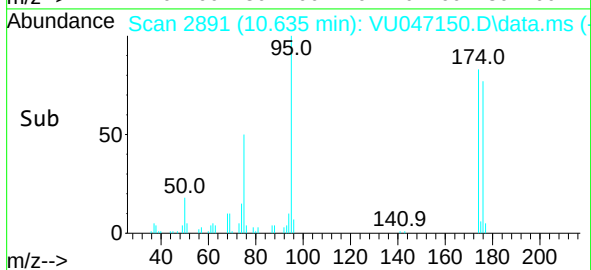
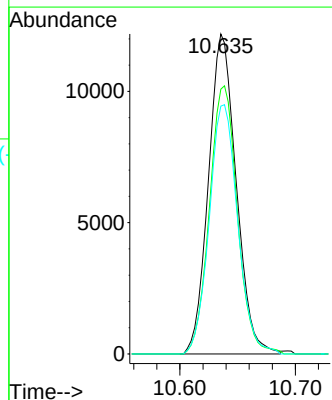
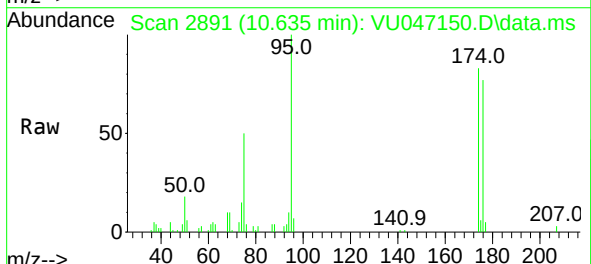
Instrument :
MSVOA_U
ClientSampleId :

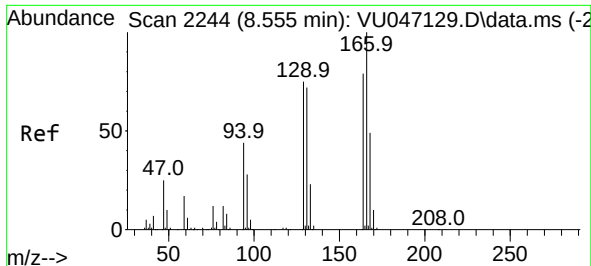
Tgt Ion: 97	Resp: 81761
Ion Ratio	Lower Upper
97 100	
83 88.8	69.8 104.8
85 58.1	44.2 66.4
99 63.4	49.7 74.5



#57
4-Bromofluorobenzene
Concen: 0.977 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion: 95	Resp: 20294
Ion Ratio	Lower Upper
95 100	
174 84.3	56.6 84.8
176 79.9	54.3 81.5



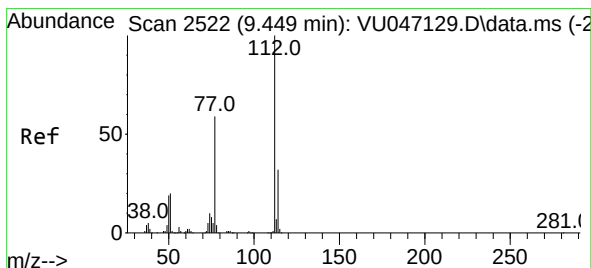
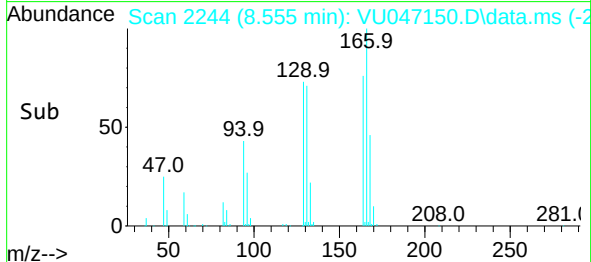
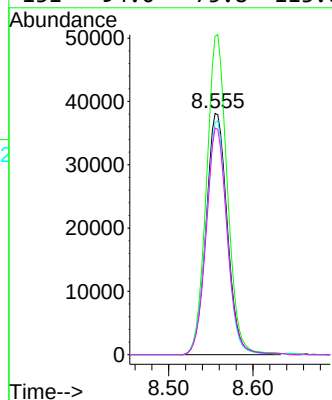
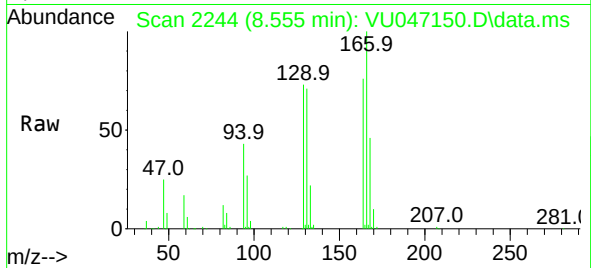


#58
Tetrachloroethene
Concen: 4.726 ug/l
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:164 Resp: 66701

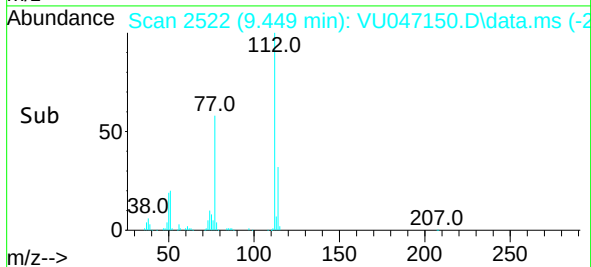
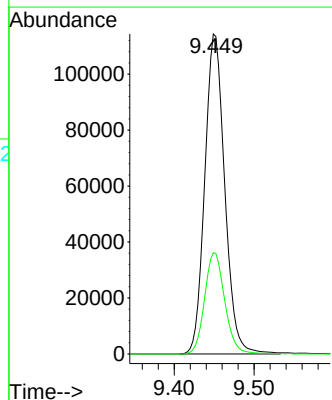
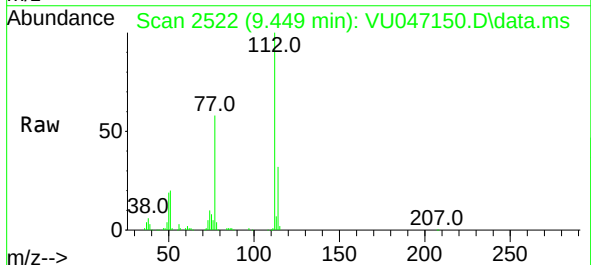
Ion	Ratio	Lower	Upper
164	100		
166	131.9	102.0	153.0
129	96.2	77.1	115.7
131	94.0	75.8	113.6

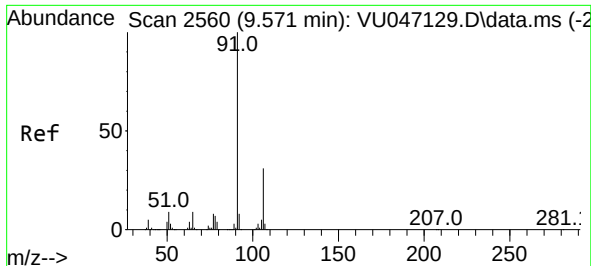


#59
Chlorobenzene
Concen: 5.001 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion:112 Resp: 198680

Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.4	38.0





#63

Ethyl Benzene

Concen: 3.580 ug/l

RT: 9.574 min Scan# 2560

Delta R.T. 0.003 min

Lab File: VU047150.D

Acq: 15 Feb 2022 15:12

Instrument :

MSVOA_U

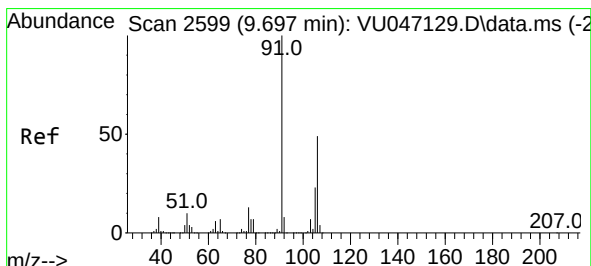
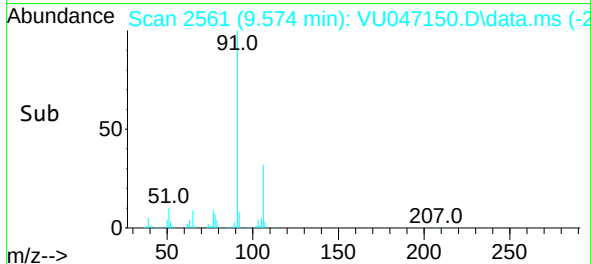
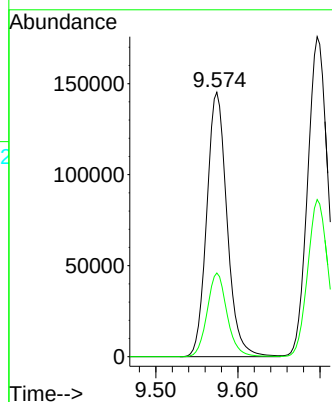
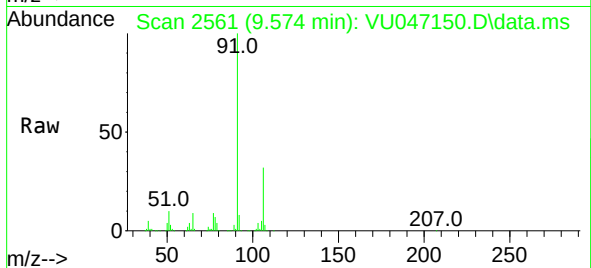
ClientSampleId :

Tgt Ion: 91 Resp: 250043

Ion Ratio Lower Upper

91 100

106 31.6 24.4 36.6



#64

m/p-Xylenes

Concen: 5.740 ug/l

RT: 9.697 min Scan# 2599

Delta R.T. -0.000 min

Lab File: VU047150.D

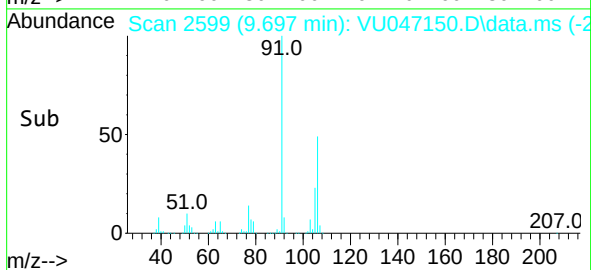
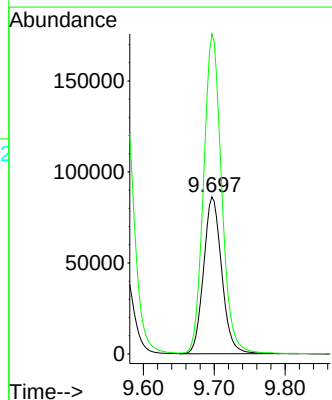
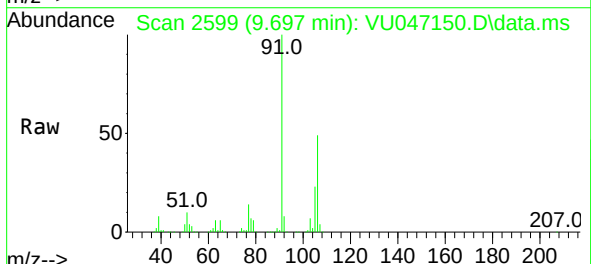
Acq: 15 Feb 2022 15:12

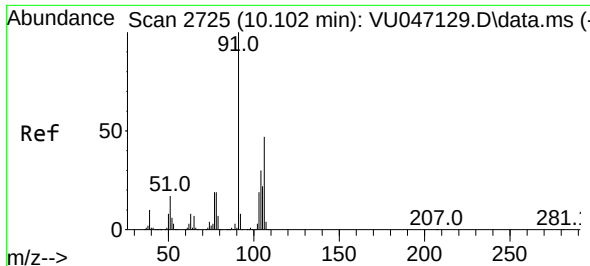
Tgt Ion: 106 Resp: 152821

Ion Ratio Lower Upper

106 100

91 203.1 165.5 248.3

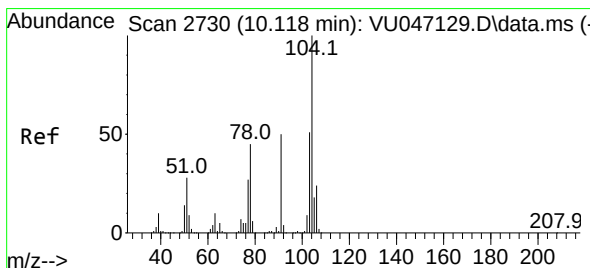
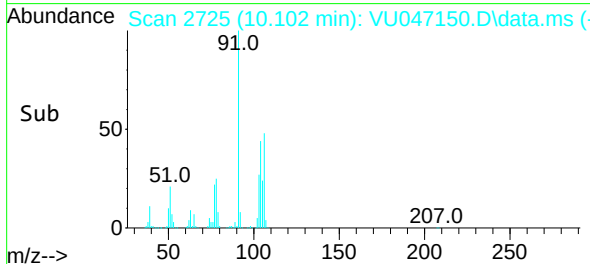
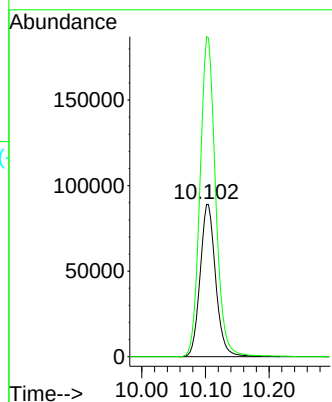
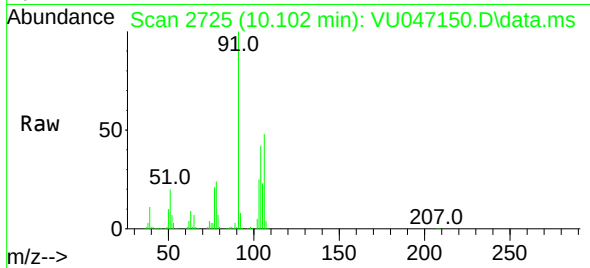




#65
o-Xylene
Concen: 5.850 ug/l
RT: 10.102 min Scan# 2725
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

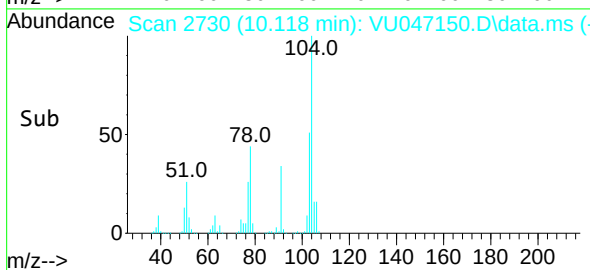
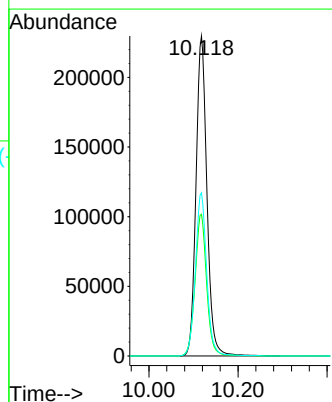
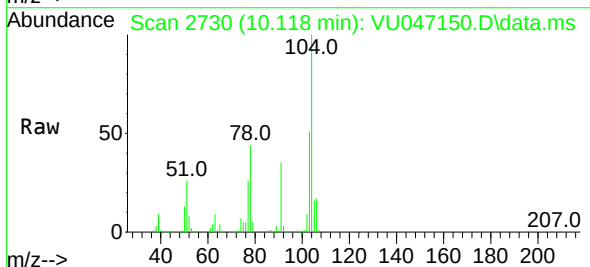
Instrument :
MSVOA_U
ClientSampleId :

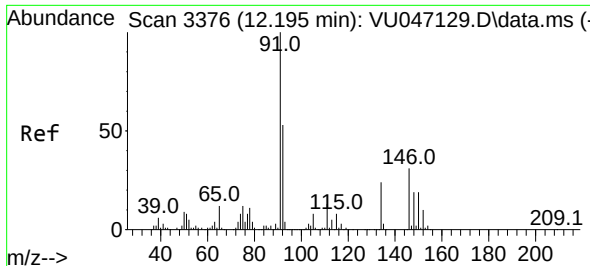
Tgt Ion:106 Resp: 150859
Ion Ratio Lower Upper
106 100
91 211.0 109.4 328.2



#66
Styrene
Concen: 8.988 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion:104 Resp: 393404
Ion Ratio Lower Upper
104 100
78 46.9 42.4 63.6
103 53.1 44.2 66.4

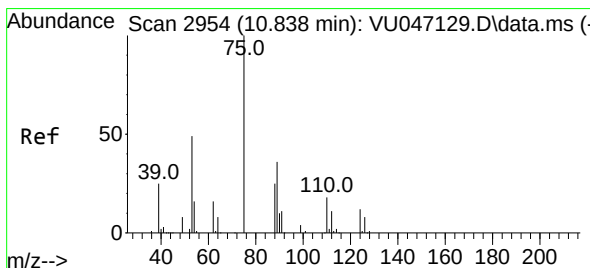
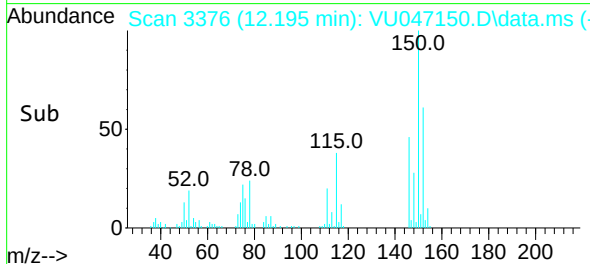
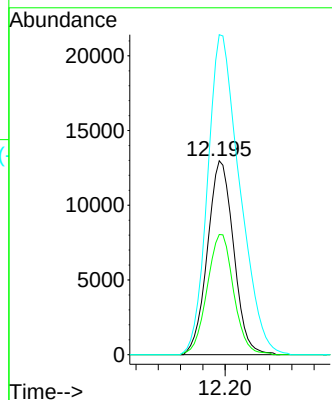
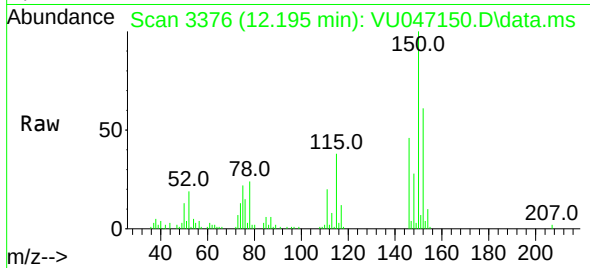




#68
 1,2-Dichlorobenzene-d4
 Concen: 0.980 ug/l
 RT: 12.195 min Scan# 311
 Delta R.T. -0.000 min
 Lab File: VU047150.D
 Acq: 15 Feb 2022 15:12

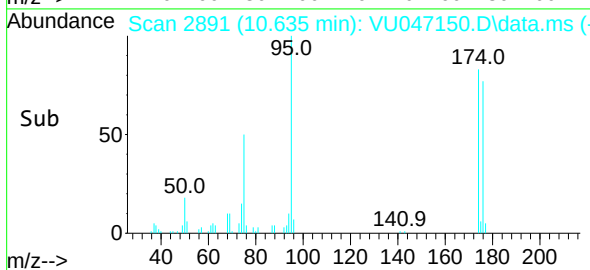
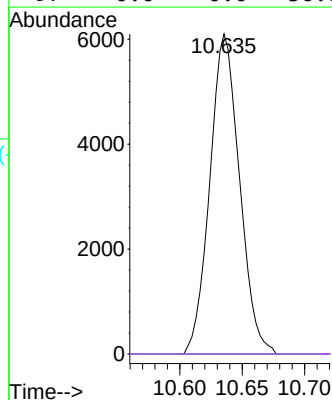
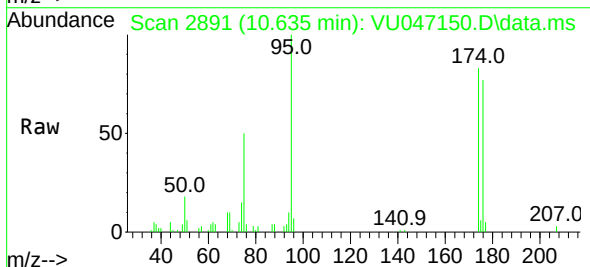
Instrument :
 MSVOA_U
 ClientSampleId :

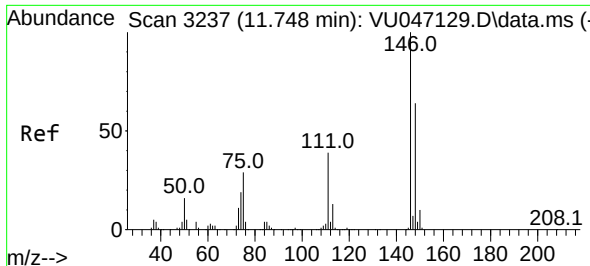
Tgt Ion:152 Resp: 21196
 Ion Ratio Lower Upper
 152 100
 115 62.9 0.0 251.0
 150 202.4 0.0 613.8



#71
 1,2,3-Trichloropropane
 Concen: 0.789 ug/l
 RT: 10.635 min Scan# 2891
 Delta R.T. -0.203 min
 Lab File: VU047150.D
 Acq: 15 Feb 2022 15:12

Tgt Ion: 75 Resp: 10121
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 105.6
 110 0.0 0.0 71.2
 97 0.0 0.0 36.8

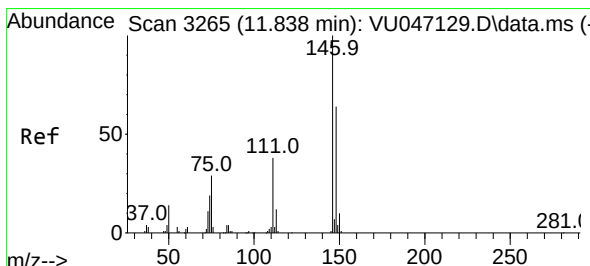
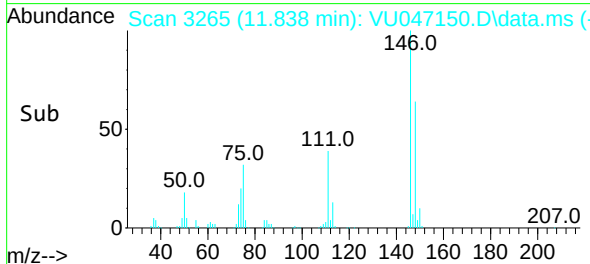
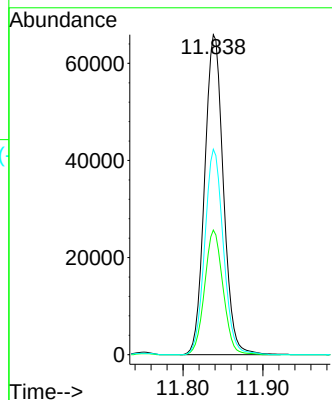
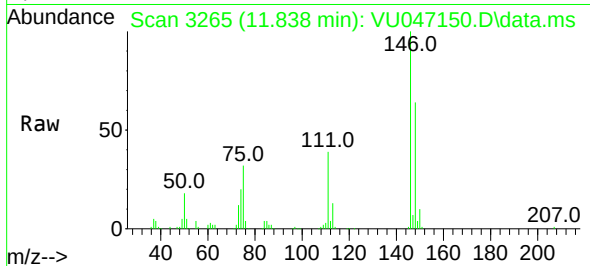




#82
1,3-Dichlorobenzene
Concen: 3.257 ug/l
RT: 11.838 min Scan# 31
Delta R.T. 0.090 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

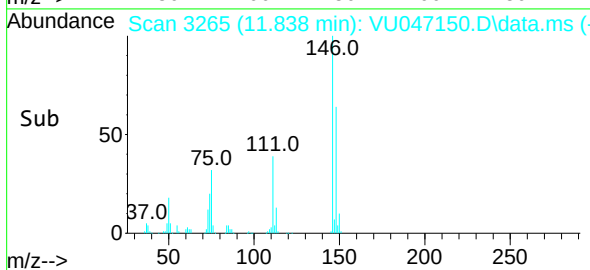
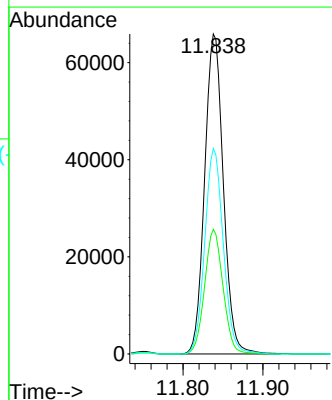
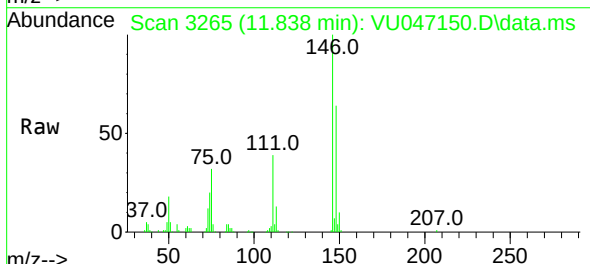
Instrument :
MSVOA_U
ClientSampleId :

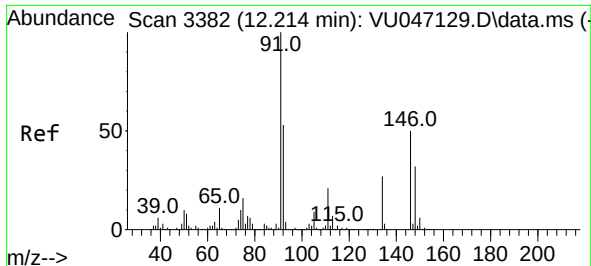
Tgt Ion:146 Resp: 107402
Ion Ratio Lower Upper
146 100
111 38.3 33.9 50.9
148 63.8 50.9 76.3



#83
1,4-Dichlorobenzene
Concen: 3.233 ug/l
RT: 11.838 min Scan# 3265
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

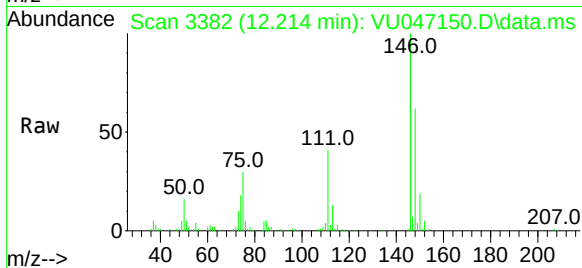
Tgt Ion:146 Resp: 107402
Ion Ratio Lower Upper
146 100
111 38.3 32.7 49.1
148 63.8 51.4 77.0



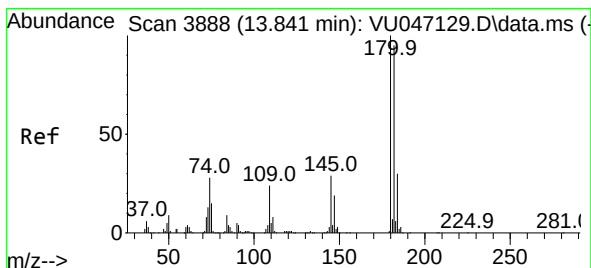
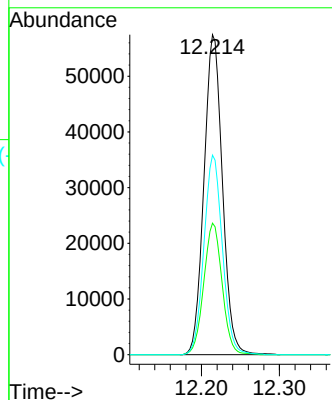
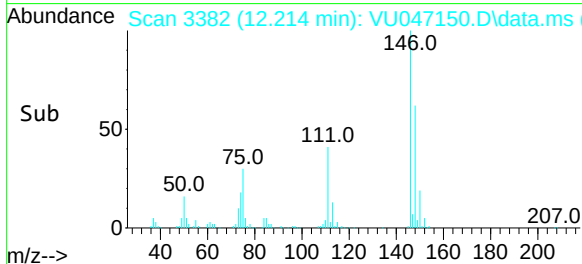


#85
1,2-Dichlorobenzene
Concen: 2.977 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:146 Resp: 94494
Ion Ratio Lower Upper
146 100
111 40.8 22.1 66.1
148 62.3 31.6 94.7



#87
1,2,4-Trichlorobenzene
Concen: 2.136 ug/l
RT: 13.844 min Scan# 3889
Delta R.T. 0.003 min
Lab File: VU047150.D
Acq: 15 Feb 2022 15:12

Tgt Ion:180 Resp: 53233
Ion Ratio Lower Upper
180 100
182 96.9 75.8 113.8
145 30.0 25.3 37.9

