

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU041321\
 Data File : VU043071.D
 Acq On : 13 Apr 2021 23:29
 Operator : SY/MD
 Sample : M1964-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 14 05:09:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U041221W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 12 13:17:29 2021
 Response via : Initial Calibration

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

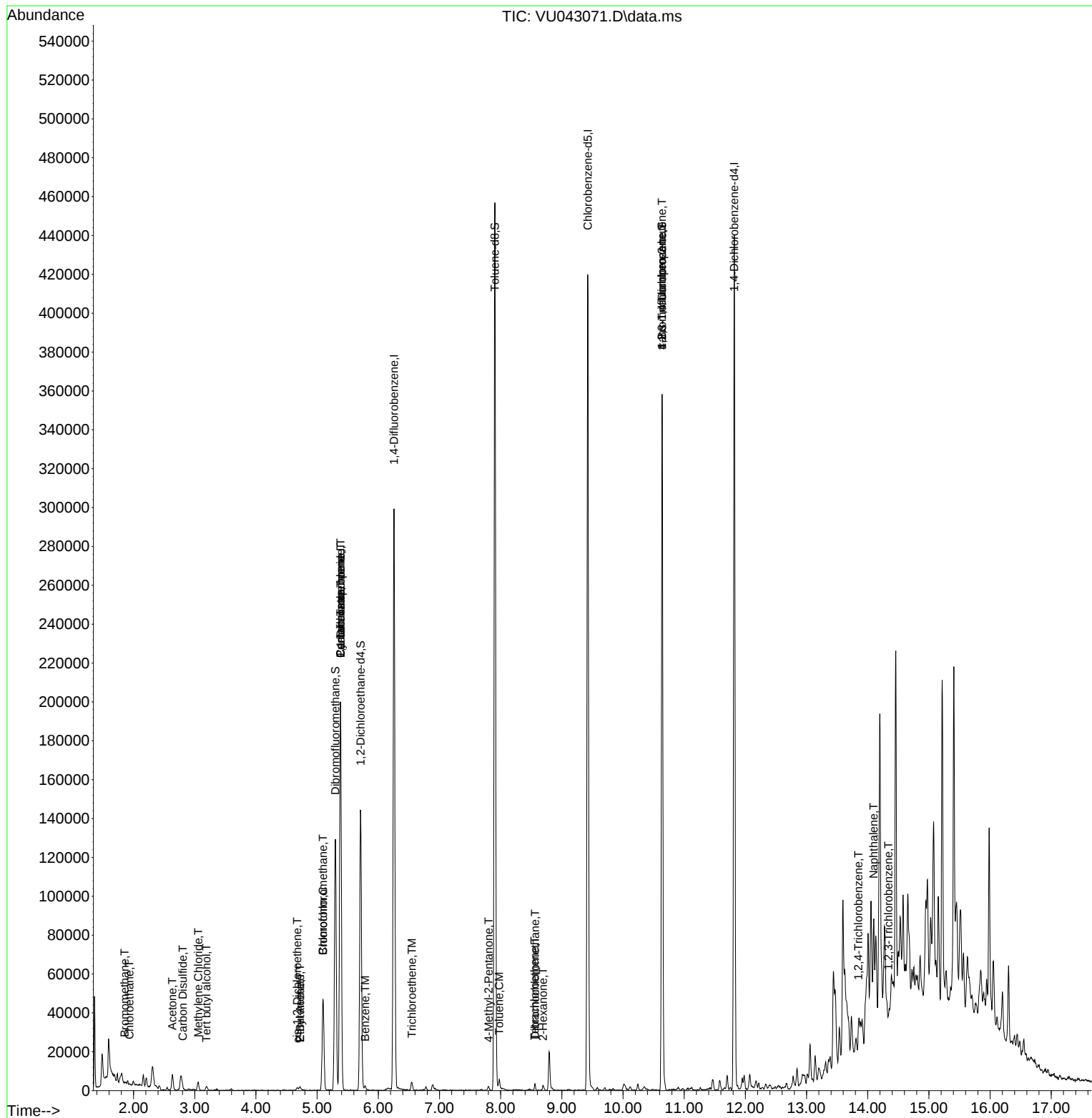
Internal Standards						
1) Pentafluorobenzene	5.382	168	137309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.256	114	225653	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.423	117	211444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.819	152	106025	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.710	65	111666	48.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.76%	
35) Dibromofluoromethane	5.298	113	78942	46.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.12%	
50) Toluene-d8	7.906	98	278234	46.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.74%	
62) 4-Bromofluorobenzene	10.639	95	104080	43.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.64%	
Target Compounds					Qvalue	
3) Chloromethane	1.523	50	343	Below Cal	#	77
5) Bromomethane	1.855	94	266	0.32	ug/l #	79
6) Chloroethane	1.932	64	436	0.37	ug/l #	42
11) Tert butyl alcohol	3.192	59	2452	4.12	ug/l	99
16) Acetone	2.633	43	9777	6.90	ug/l	96
17) Carbon Disulfide	2.803	76	928	0.23	ug/l #	74
20) Methylene Chloride	3.057	84	1835	1.12	ug/l	98
25) 2-Butanone	4.719	43	3003	1.43	ug/l	91
27) cis-1,2-Dichloroethene	4.674	96	787	0.46	ug/l	40
28) Bromochloromethane	5.096	49	3739	2.43	ug/l #	16
30) Chloroform	5.096	83	38464	12.04	ug/l	90
31) Cyclohexane	5.382	56	3471	1.22	ug/l #	25
36) 1,1-Dichloropropene	5.382	75	11421	4.77	ug/l #	51
37) Ethyl Acetate	4.719	43	3003	0.73	ug/l #	71
38) Carbon Tetrachloride	5.382	117	13628	5.31	ug/l #	16
40) Benzene	5.784	78	1780	0.26	ug/l #	90
44) Trichloroethene	6.549	130	1140	0.66	ug/l	81
51) 4-Methyl-2-Pentanone	7.803	43	1575	0.36	ug/l #	85
52) Toluene	7.977	92	1621	0.38	ug/l	96
59) 2-Hexanone	8.694	43	1989	0.56	ug/l	89
60) Dibromochloromethane	8.562	129	586	0.28	ug/l #	11
64) Tetrachloroethene	8.555	164	516	0.34	ug/l	86
76) 1,2,3-Trichloropropane	10.639	75	60240	19.44	ug/l #	36
81) trans-1,4-Dichloro-2-b...	10.639	75	60240	57.13	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.848	180	1197	1.98	ug/l	86
94) Hexachlorobutadiene	14.028	225	187	Below Cal		87
95) Naphthalene	14.095	128	7600	3.68	ug/l	96
96) 1,2,3-Trichlorobenzene	14.340	180	1033	1.89	ug/l	68

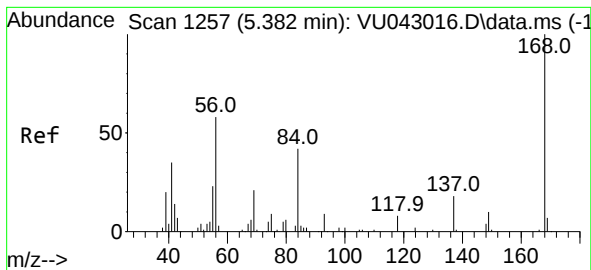
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U041221W.M
Quant Title : SW846 8260
QLast Update : Mon Apr 12 13:17:29 2021
Response via : Initial Calibration

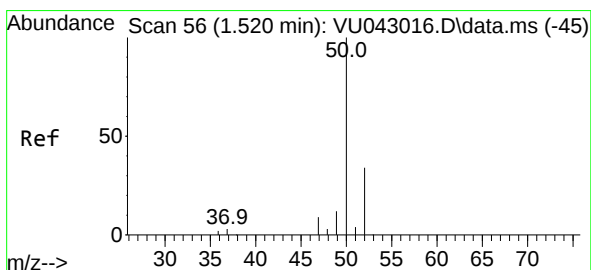
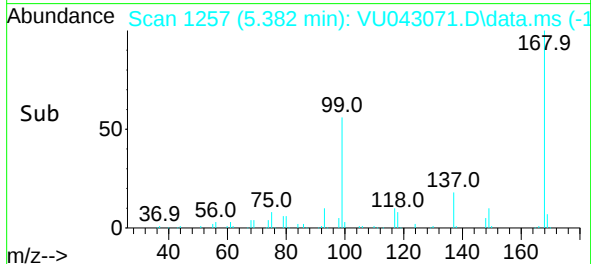
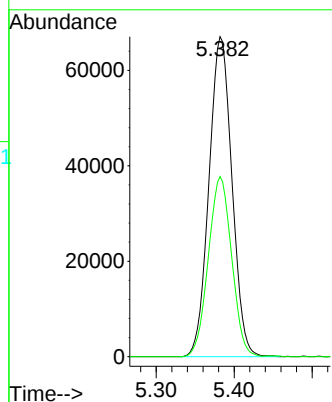
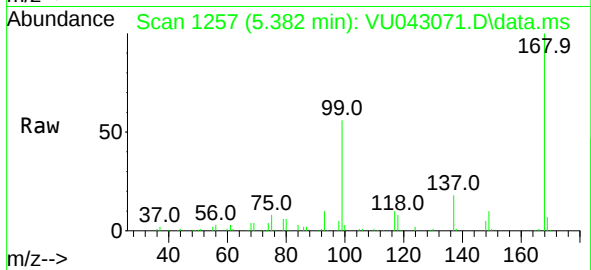




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.382 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

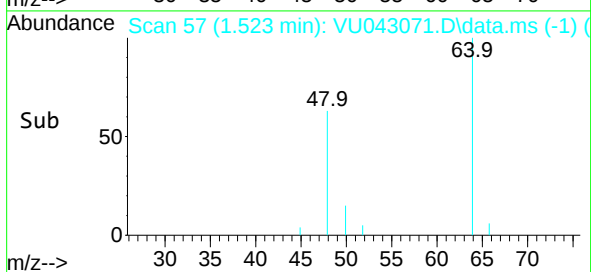
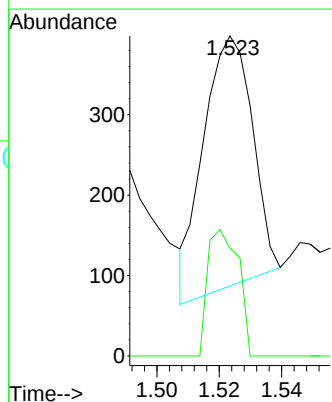
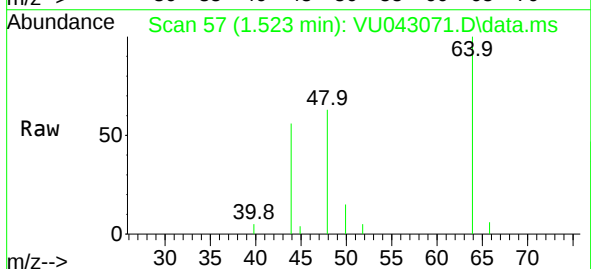
Instrument :
MSVOA_U
ClientSampled :

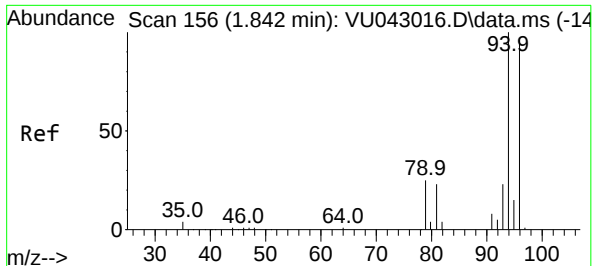
Tgt Ion:168 Resp: 137309
Ion Ratio Lower Upper
168 100
99 56.3 45.0 67.4



#3
Chloromethane
Concen: Below Cal
RT: 1.523 min Scan# 57
Delta R.T. 0.003 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 50 Resp: 343
Ion Ratio Lower Upper
50 100
52 46.5 26.6 40.0#

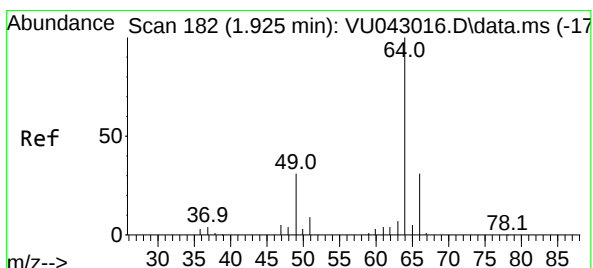
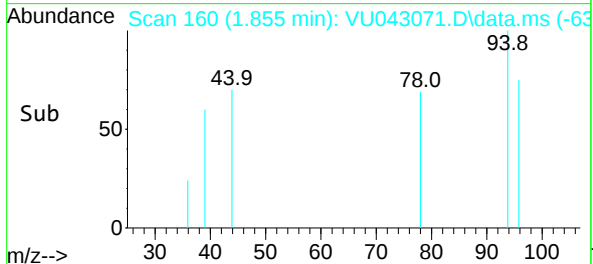
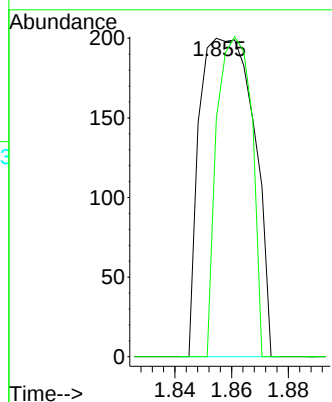
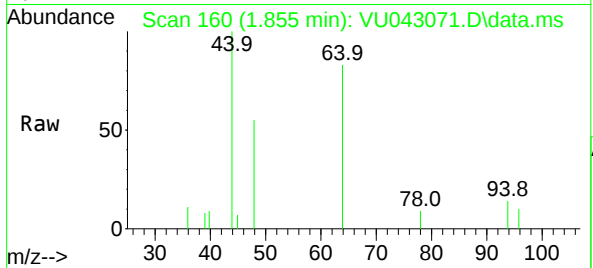




#5
Bromomethane
Concen: 0.32 ug/l
RT: 1.855 min Scan# 160
Delta R.T. 0.013 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

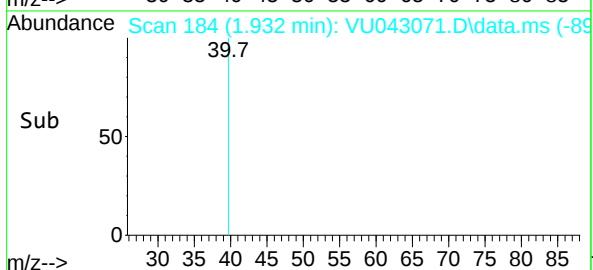
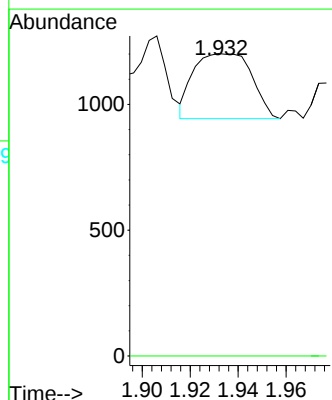
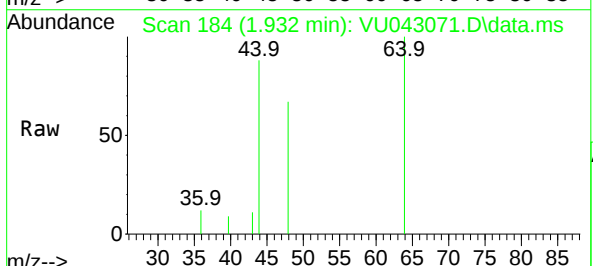
Instrument :
MSVOA_U
ClientSampled :

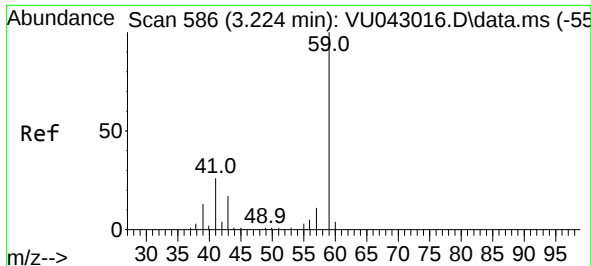
Tgt Ion: 94 Resp: 266
Ion Ratio Lower Upper
94 100
96 75.0 76.6 115.0#



#6
Chloroethane
Concen: 0.37 ug/l
RT: 1.932 min Scan# 184
Delta R.T. 0.007 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 64 Resp: 436
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

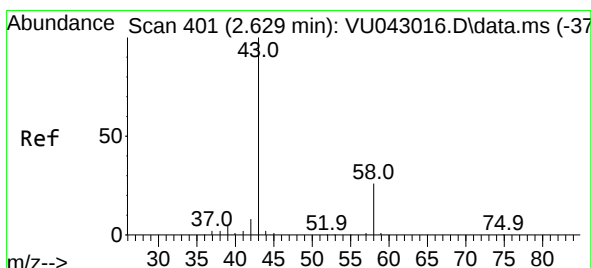
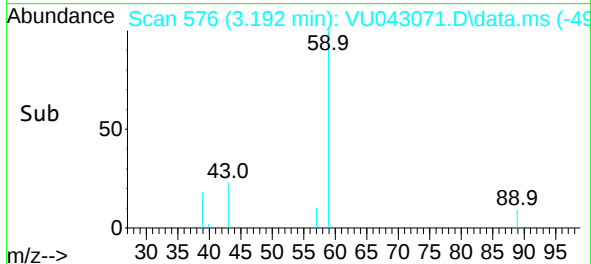
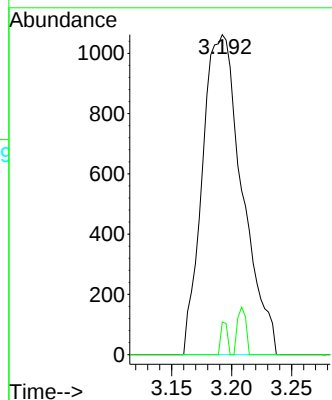
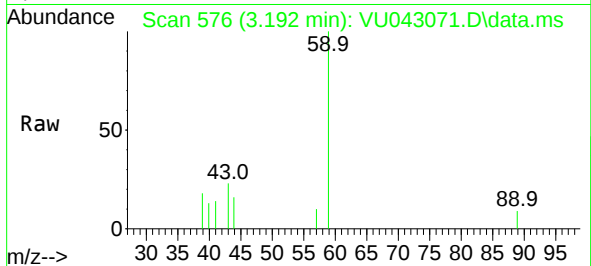




#11
Tert butyl alcohol
Concen: 4.12 ug/l
RT: 3.192 min Scan# 576
Delta R.T. -0.032 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

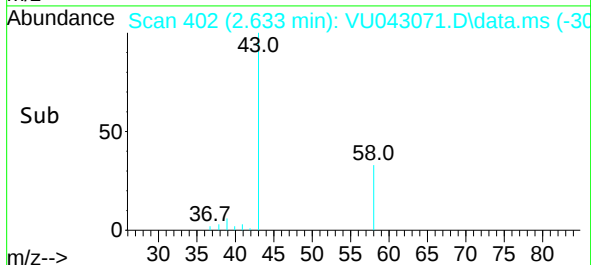
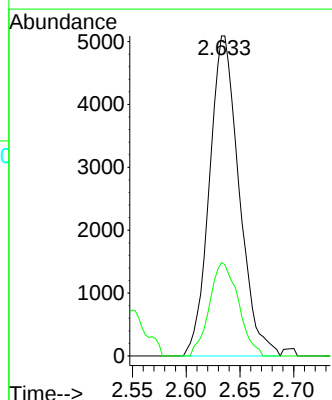
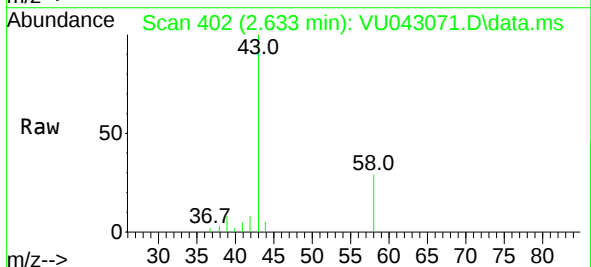
Instrument :
MSVOA_U
ClientSampled :

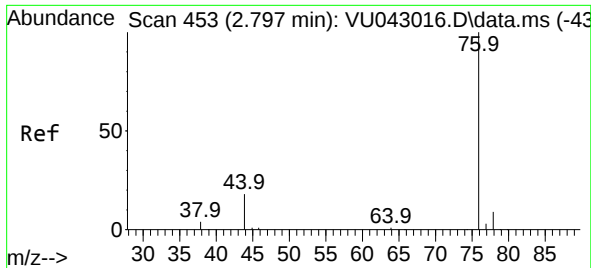
Tgt Ion: 59 Resp: 2452
Ion Ratio Lower Upper
59 100
57 1.7 1.6 2.4



#16
Acetone
Concen: 6.90 ug/l
RT: 2.633 min Scan# 402
Delta R.T. 0.004 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

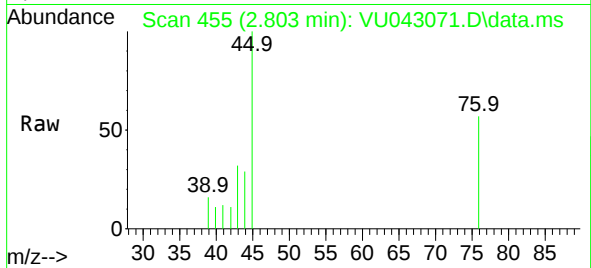
Tgt Ion: 43 Resp: 9777
Ion Ratio Lower Upper
43 100
58 29.2 21.5 32.3



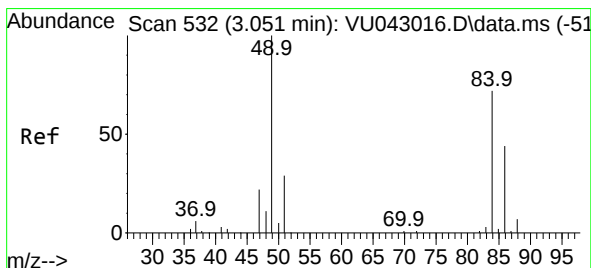
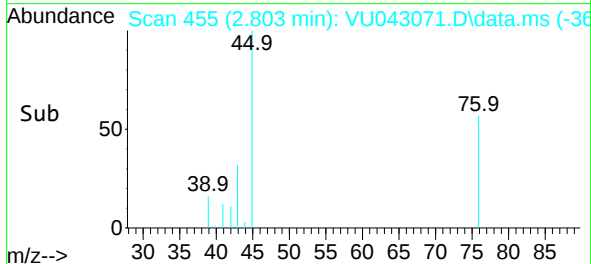
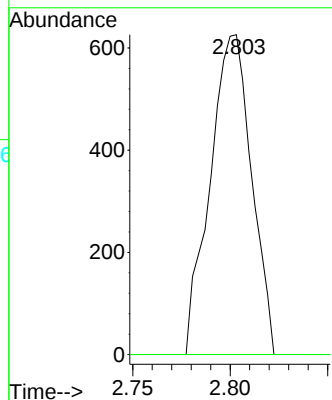


#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 2.803 min Scan# 455
Delta R.T. 0.006 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Instrument :
MSVOA_U
ClientSampled :

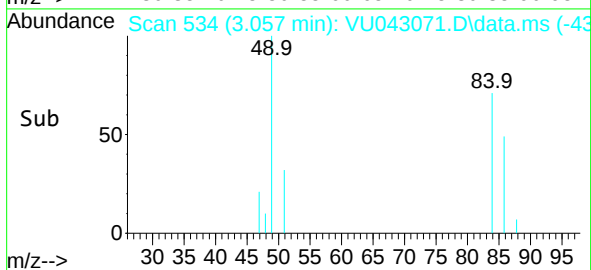
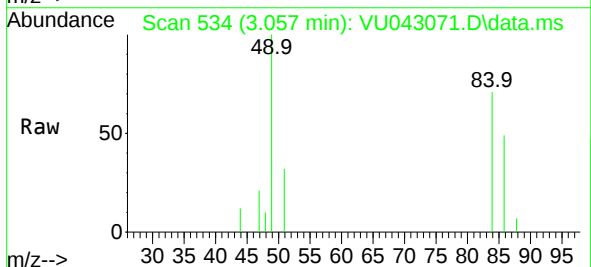
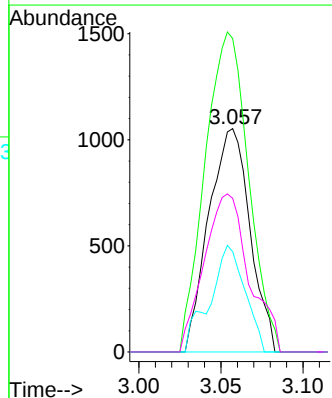


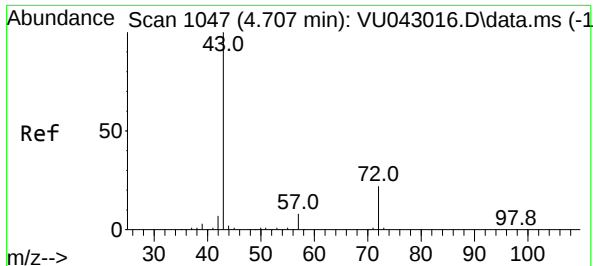
Tgt Ion: 76 Resp: 928
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#20
Methylene Chloride
Concen: 1.12 ug/l
RT: 3.057 min Scan# 534
Delta R.T. 0.006 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 84 Resp: 1835
Ion Ratio Lower Upper
84 100
49 140.3 112.6 169.0
51 44.9 33.7 50.5
86 68.8 51.7 77.5





#25

2-Butanone

Concen: 1.43 ug/l

RT: 4.719 min Scan# 1051

Delta R.T. 0.012 min

Lab File: VU043071.D

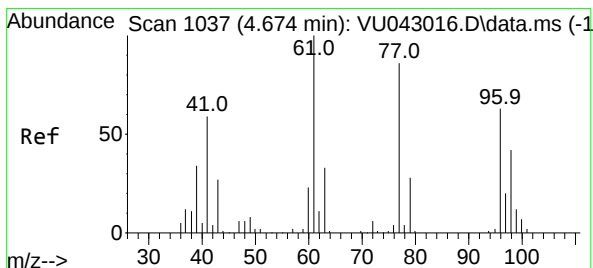
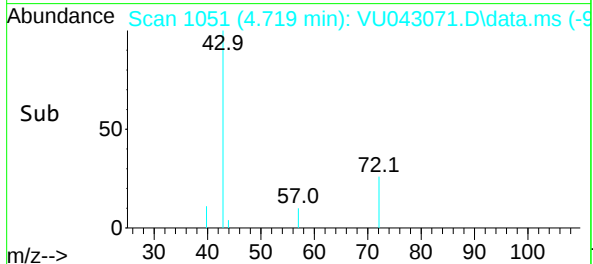
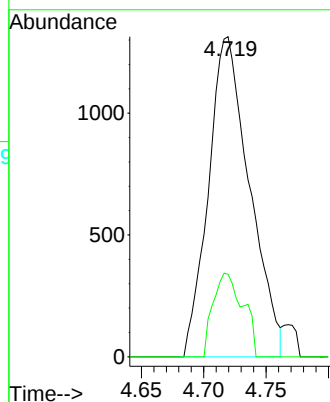
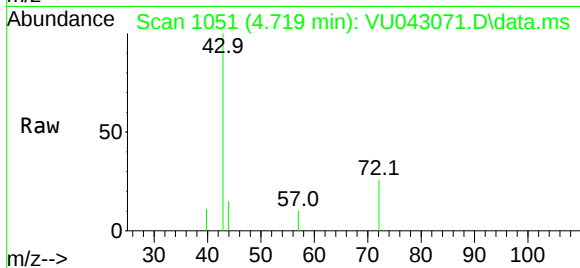
Acq: 13 Apr 2021 23:29

Tgt Ion: 43 Resp: 3003

Ion Ratio Lower Upper

43 100

72 25.8 17.4 26.0



#27

cis-1,2-Dichloroethene

Concen: 0.46 ug/l

RT: 4.674 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

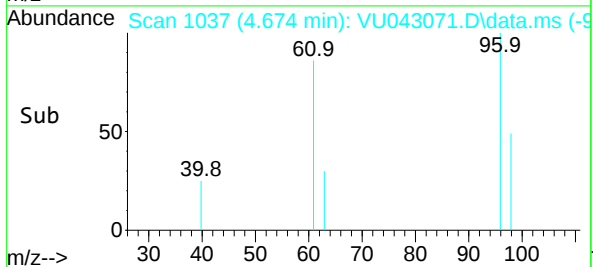
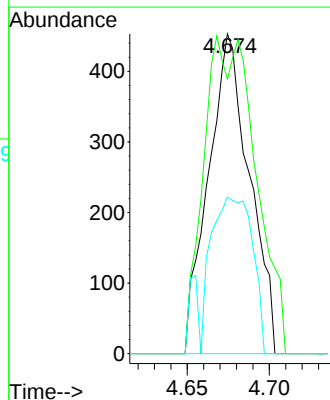
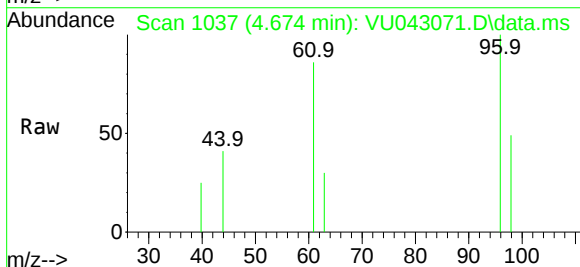
Tgt Ion: 96 Resp: 787

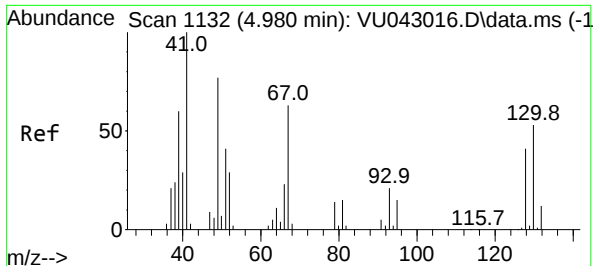
Ion Ratio Lower Upper

96 100

61 60.4 0.0 322.2

98 49.2 0.0 128.6





#28

Bromochloromethane

Concen: 2.43 ug/l

RT: 5.096 min Scan# 1168

Delta R.T. 0.116 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

Tgt Ion: 49 Resp: 3739

Ion Ratio Lower Upper

49 100

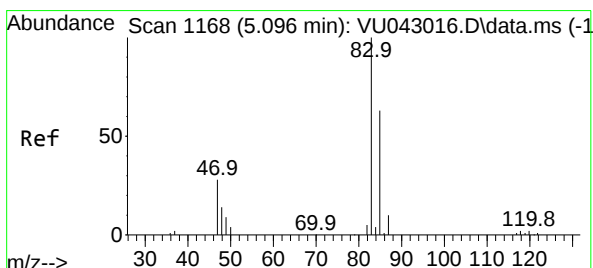
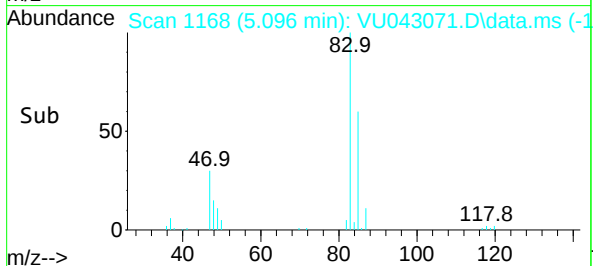
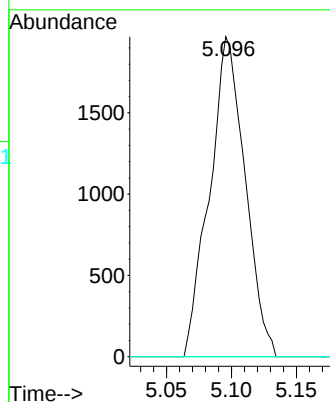
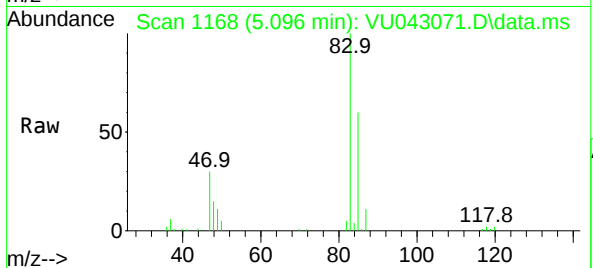
129 0.0 0.0 3.4

130 0.0 57.1 85.7#

Instrument :

MSVOA_U

ClientSampleId :



#30

Chloroform

Concen: 12.04 ug/l

RT: 5.096 min Scan# 1168

Delta R.T. -0.000 min

Lab File: VU043071.D

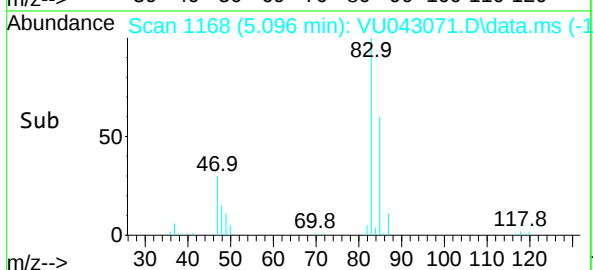
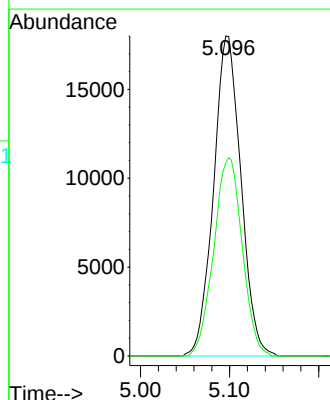
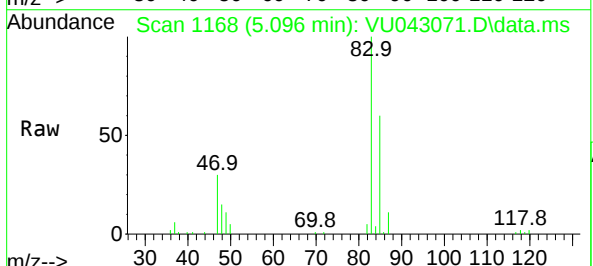
Acq: 13 Apr 2021 23:29

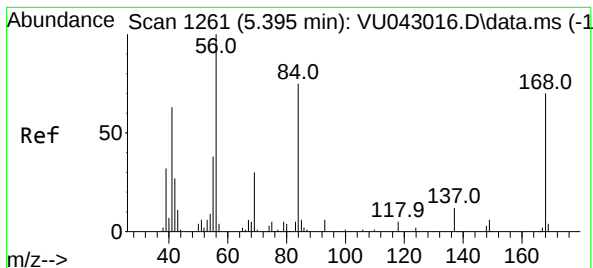
Tgt Ion: 83 Resp: 38464

Ion Ratio Lower Upper

83 100

85 60.3 54.6 81.8





#31

Cyclohexane

Concen: 1.22 ug/l

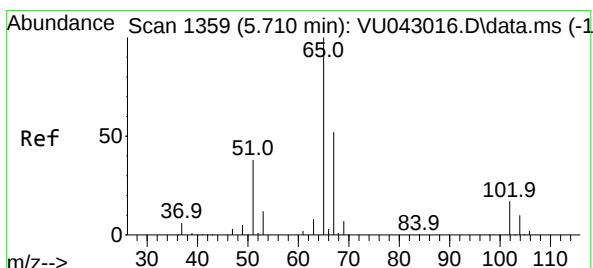
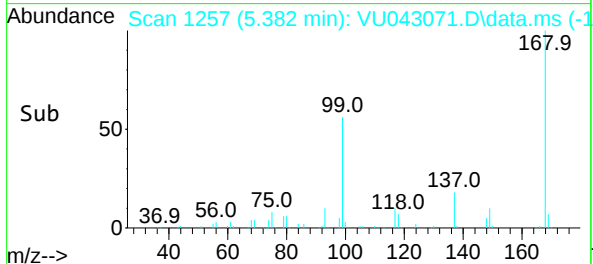
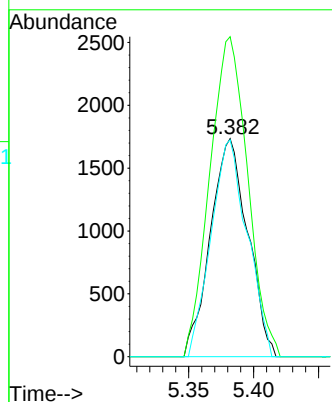
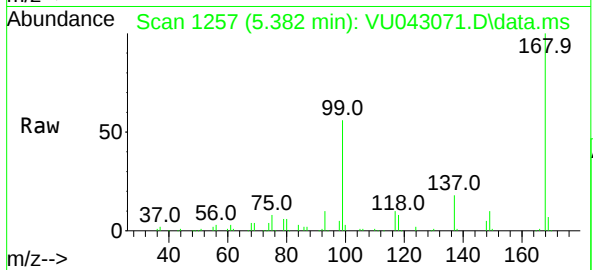
RT: 5.382 min Scan# 1257

Delta R.T. -0.013 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

Tgt Ion:	56	Resp:	3471
Ion	Ratio	Lower	Upper
56	100		
69	146.7	24.9	37.3#
84	99.5	63.7	95.5#



#33

1,2-Dichloroethane-d4

Concen: 48.38 ug/l

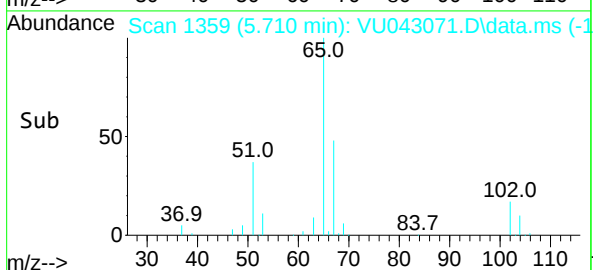
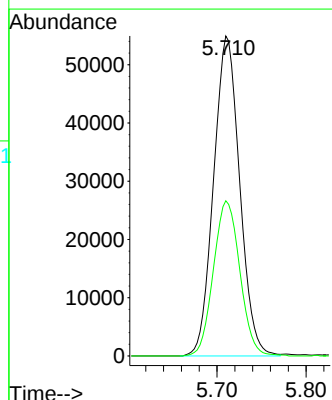
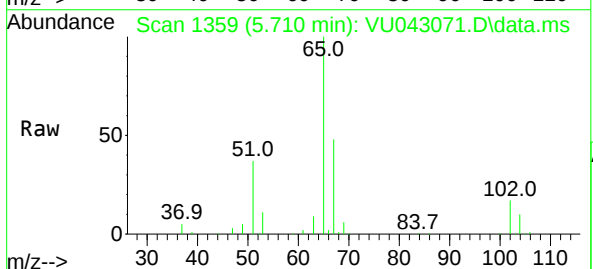
RT: 5.710 min Scan# 1359

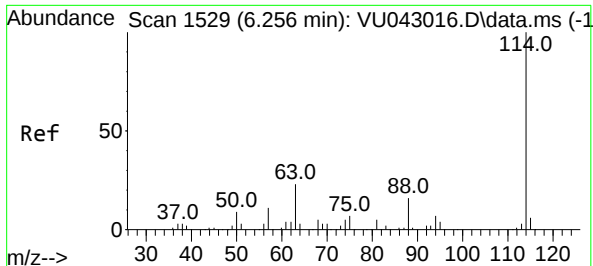
Delta R.T. -0.000 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

Tgt Ion:	65	Resp:	111666
Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.8

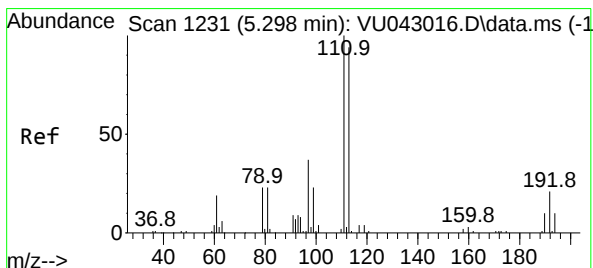
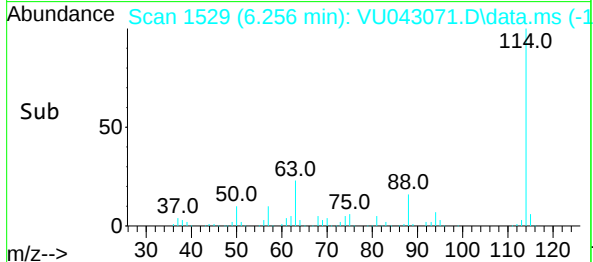
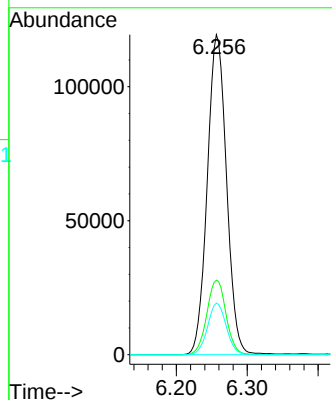
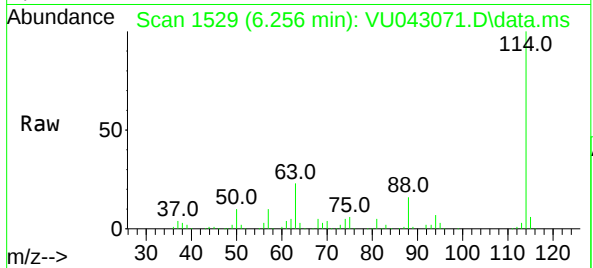




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.256 min Scan# 1529
Delta R.T. 0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

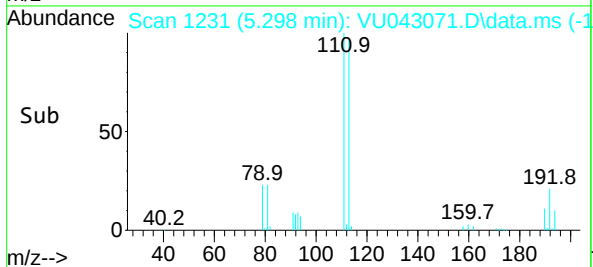
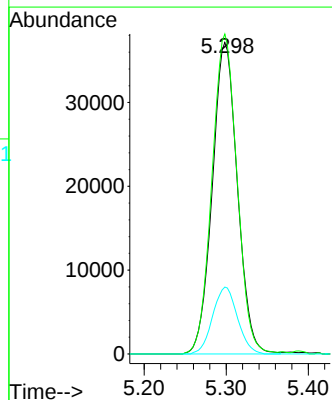
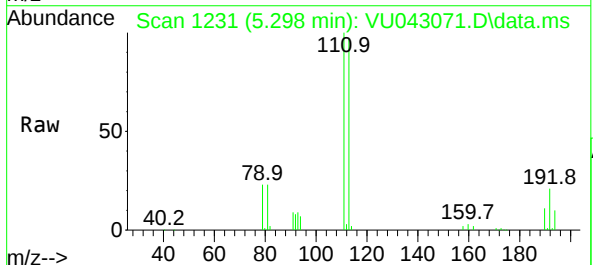
Instrument :
MSVOA_U
ClientSampled :

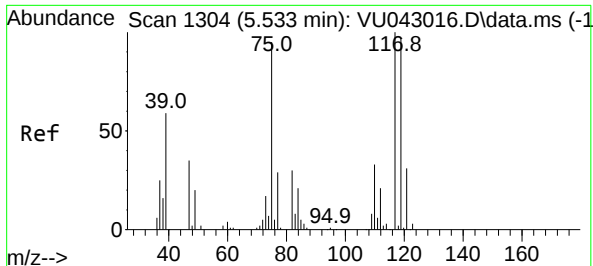
Tgt Ion:114 Resp: 225653
Ion Ratio Lower Upper
114 100
63 23.3 0.0 44.2
88 16.1 0.0 33.4



#35
Dibromofluoromethane
Concen: 46.56 ug/l
RT: 5.298 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion:113 Resp: 78942
Ion Ratio Lower Upper
113 100
111 102.6 81.8 122.8
192 21.2 17.2 25.8





#36

1,1-Dichloropropene

Concen: 4.77 ug/l

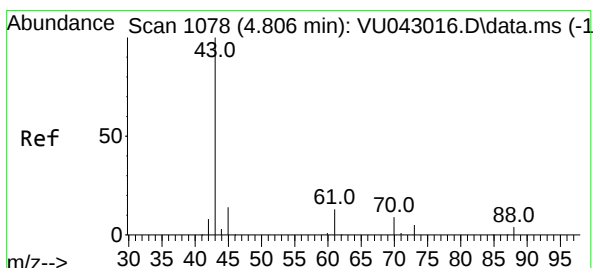
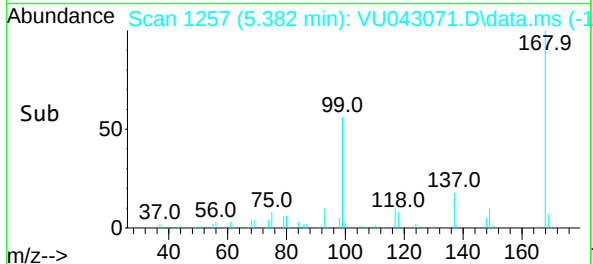
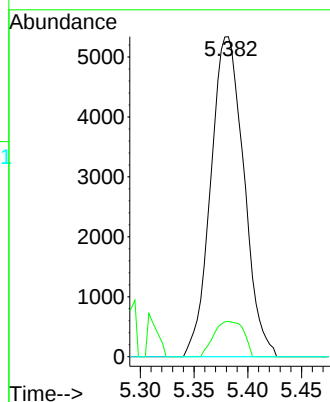
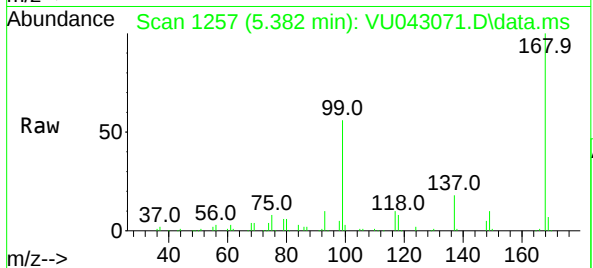
RT: 5.382 min Scan# 1257

Delta R.T. -0.151 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

Tgt Ion:	75	Resp:	11421
Ion	Ratio	Lower	Upper
75	100		
110	10.0	16.8	50.3#
77	0.0	24.8	37.2#



#37

Ethyl Acetate

Concen: 0.73 ug/l

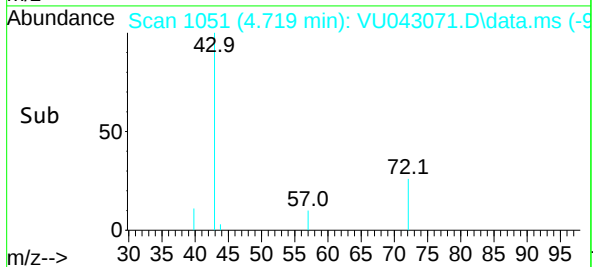
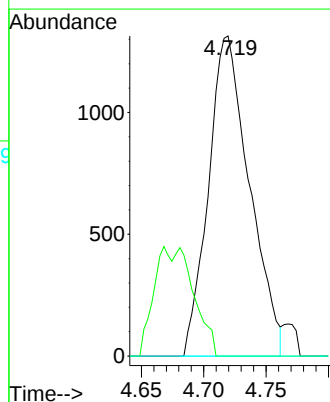
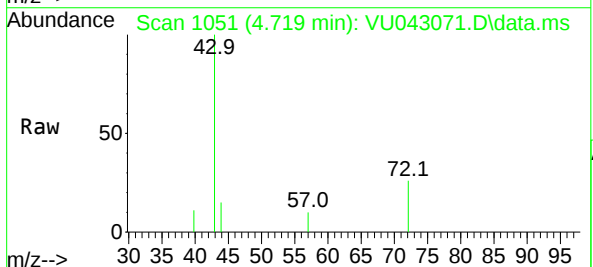
RT: 4.719 min Scan# 1051

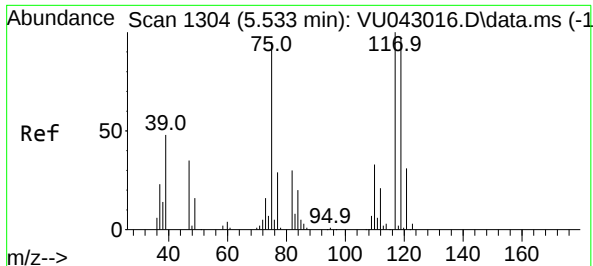
Delta R.T. -0.087 min

Lab File: VU043071.D

Acq: 13 Apr 2021 23:29

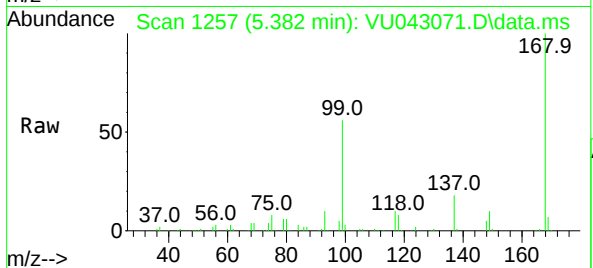
Tgt Ion:	43	Resp:	3003
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.1	15.1#
70	0.0	7.2	10.8#



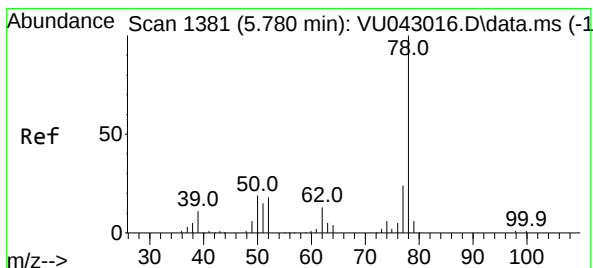
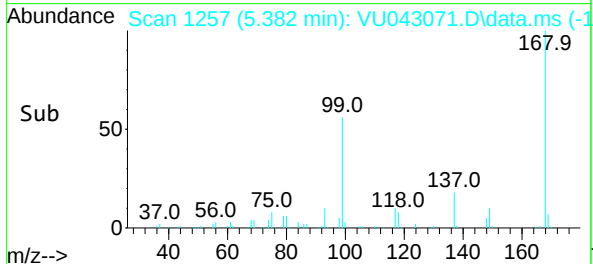
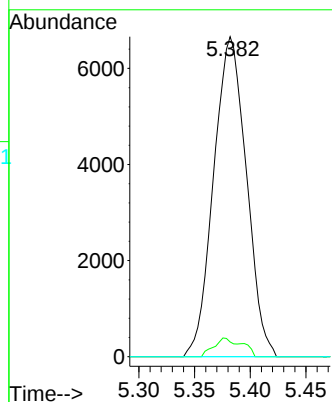


#38
Carbon Tetrachloride
Concen: 5.31 ug/l
RT: 5.382 min Scan# 1257
Delta R.T. -0.151 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Instrument :
MSVOA_U
ClientSampled :

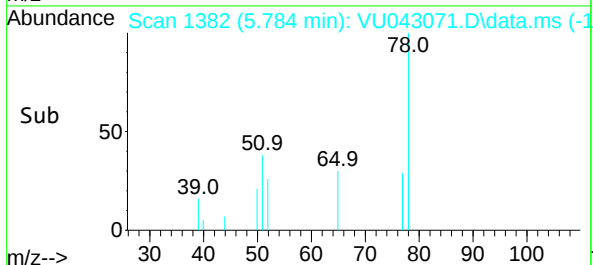
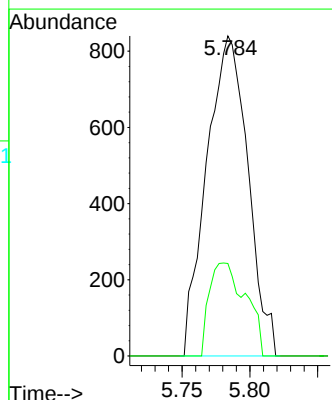
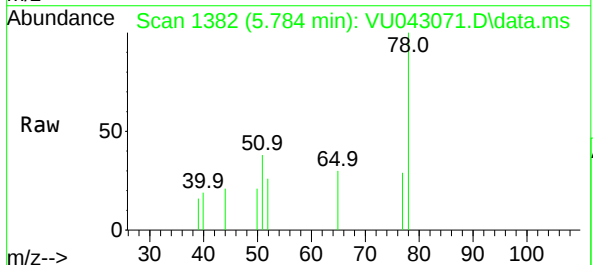


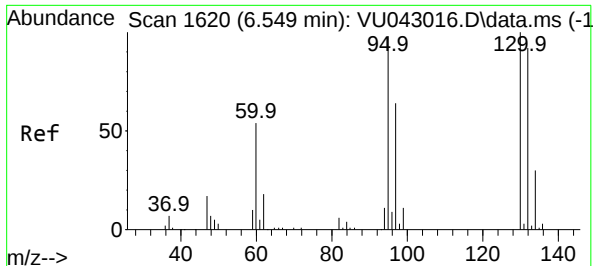
Tgt Ion:117 Resp: 13628
Ion Ratio Lower Upper
117 100
119 4.6 75.5 113.3#
121 0.0 24.7 37.1#



#40
Benzene
Concen: 0.26 ug/l
RT: 5.784 min Scan# 1382
Delta R.T. 0.004 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 78 Resp: 1780
Ion Ratio Lower Upper
78 100
77 28.9 19.3 28.9#

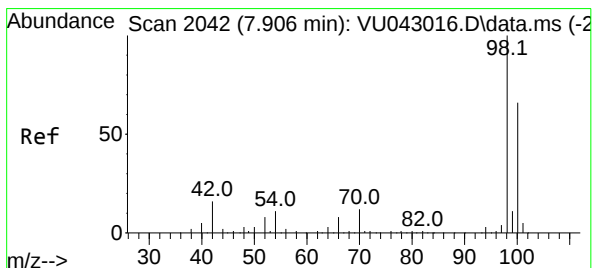
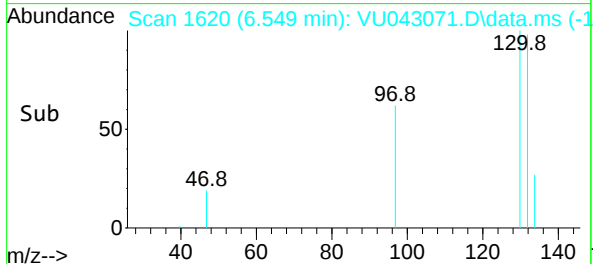
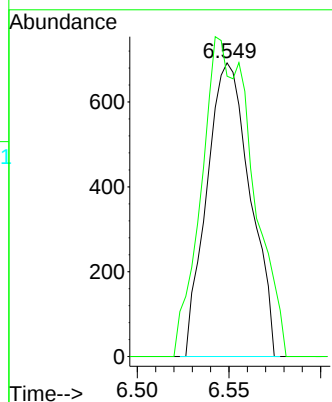
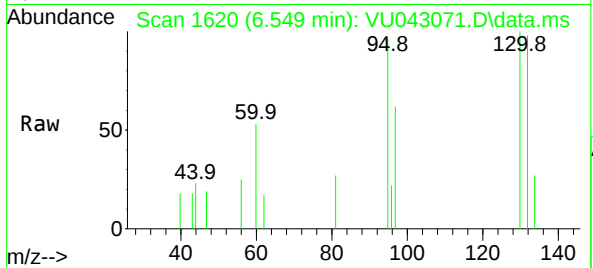




#44
Trichloroethene
Concen: 0.66 ug/l
RT: 6.549 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

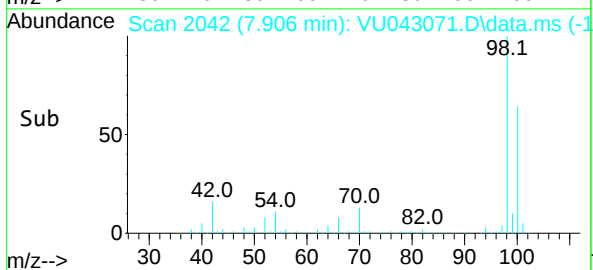
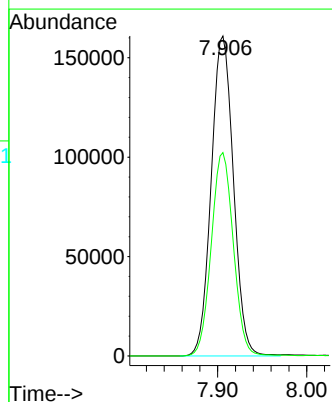
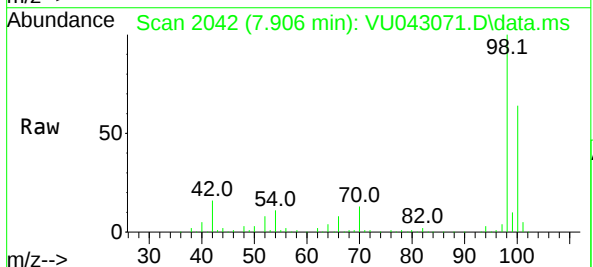
Instrument :
MSVOA_U
ClientSampleId :

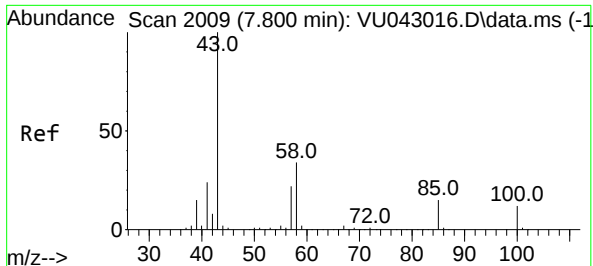
Tgt Ion:130 Resp: 1140
Ion Ratio Lower Upper
130 100
95 80.2 0.0 197.8



#50
Toluene-d8
Concen: 46.37 ug/l
RT: 7.906 min Scan# 2042
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 98 Resp: 278234
Ion Ratio Lower Upper
98 100
100 63.3 50.2 75.2

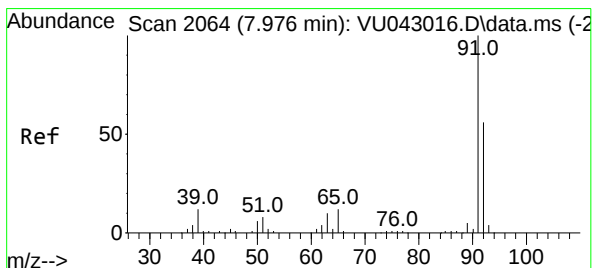
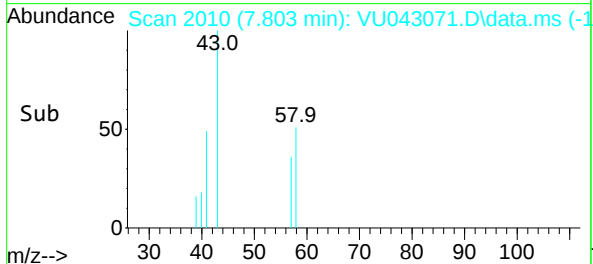
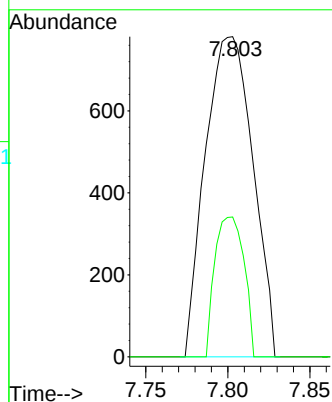
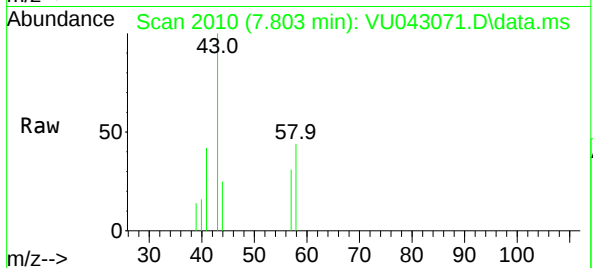




#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 7.803 min Scan# 2010
Delta R.T. 0.003 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

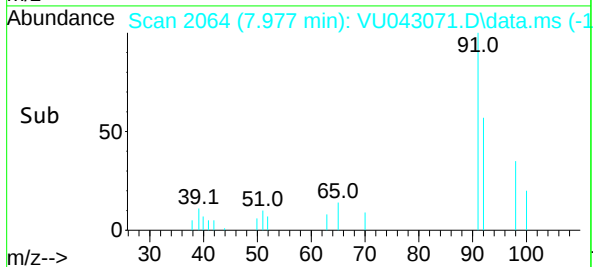
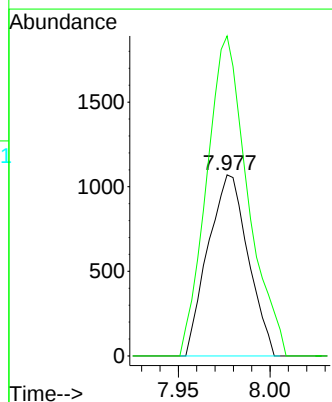
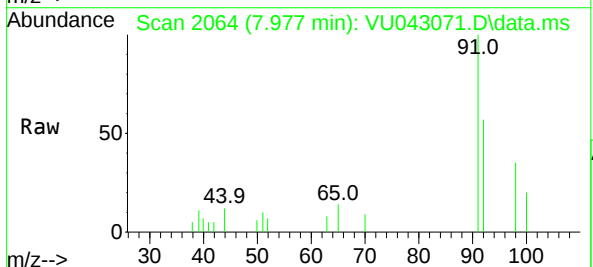
Instrument :
MSVOA_U
ClientSampled :

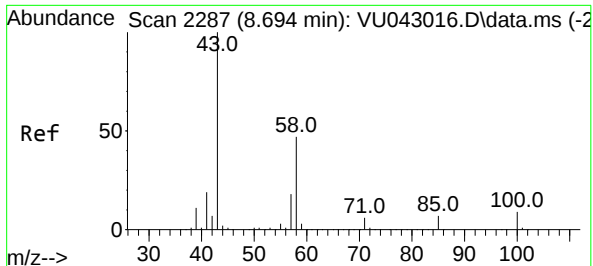
Tgt Ion: 43 Resp: 1575
Ion Ratio Lower Upper
43 100
58 26.6 28.1 42.1#



#52
Toluene
Concen: 0.38 ug/l
RT: 7.977 min Scan# 2064
Delta R.T. 0.001 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 92 Resp: 1621
Ion Ratio Lower Upper
92 100
91 180.9 140.3 210.5





#59

2-Hexanone

Concen: 0.56 ug/l

RT: 8.694 min Scan# 2287

Delta R.T. -0.000 min

Lab File: VU043071.D

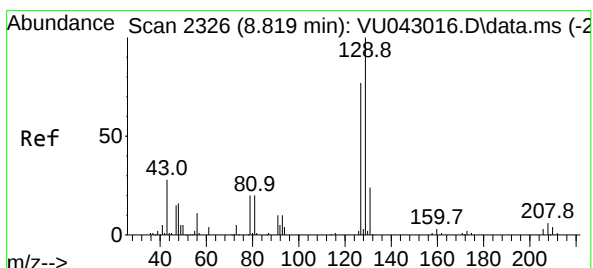
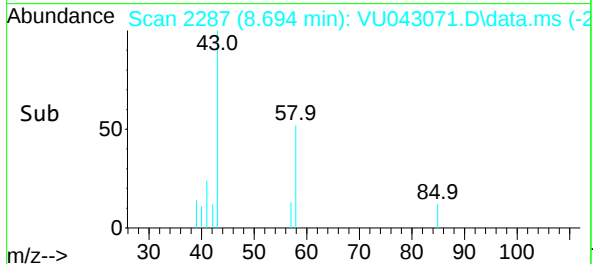
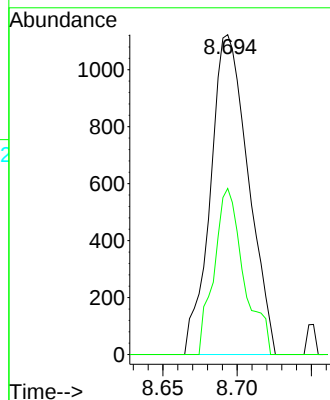
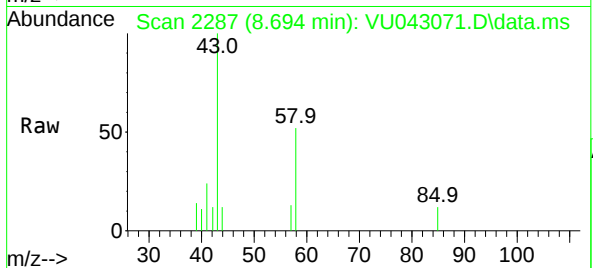
Acq: 13 Apr 2021 23:29

Tgt Ion: 43 Resp: 1989

Ion Ratio Lower Upper

43 100

58 40.9 24.0 72.0



#60

Dibromochloromethane

Concen: 0.28 ug/l

RT: 8.562 min Scan# 2246

Delta R.T. -0.257 min

Lab File: VU043071.D

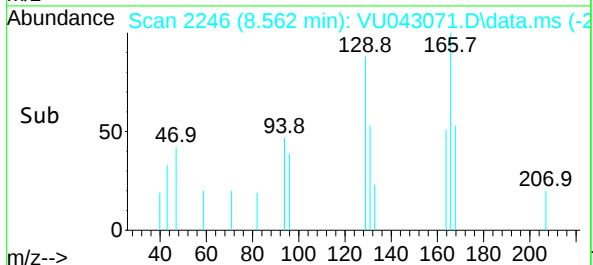
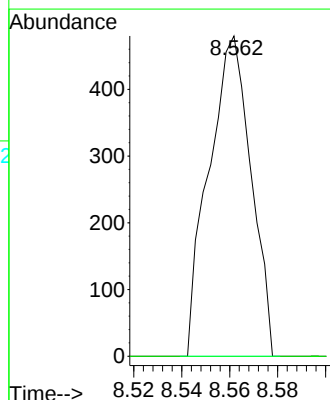
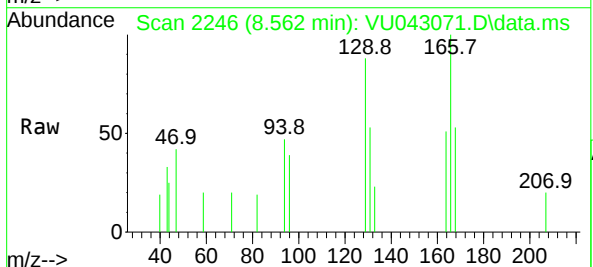
Acq: 13 Apr 2021 23:29

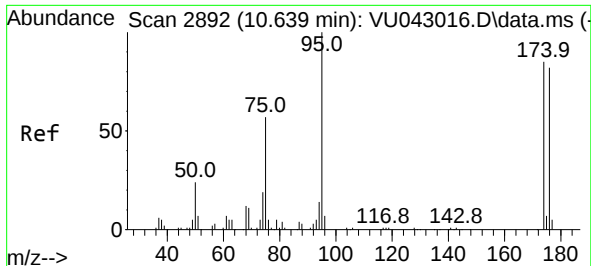
Tgt Ion: 129 Resp: 586

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#

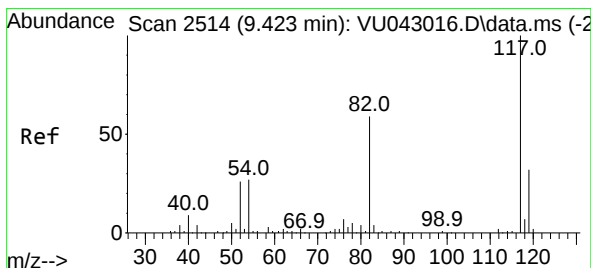
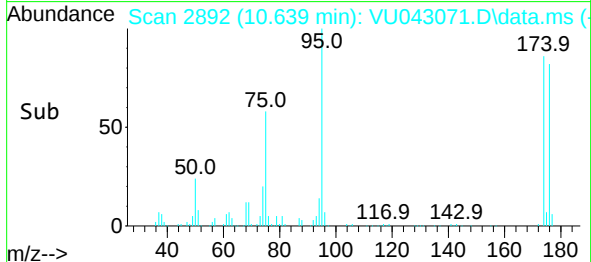
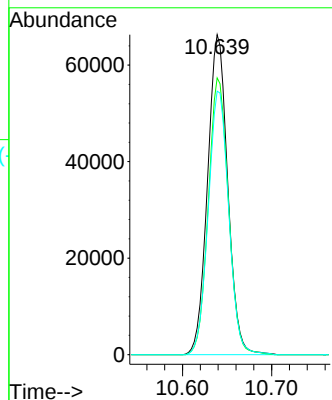
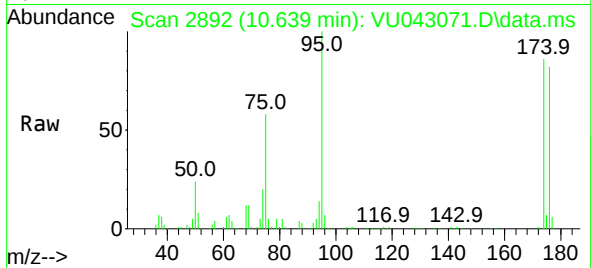




#62
4-Bromofluorobenzene
Concen: 43.32 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

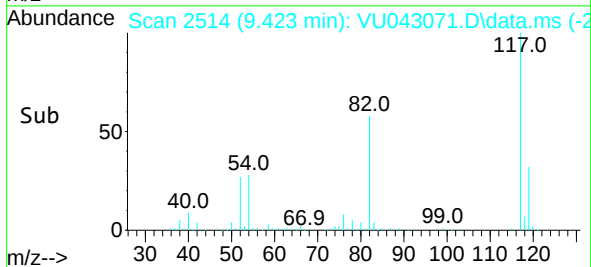
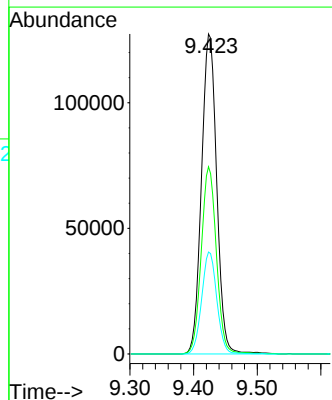
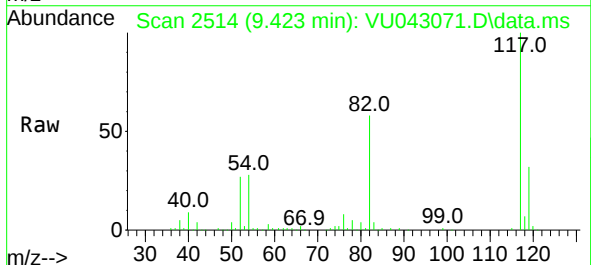
Instrument :
MSVOA_U
ClientSampleId :

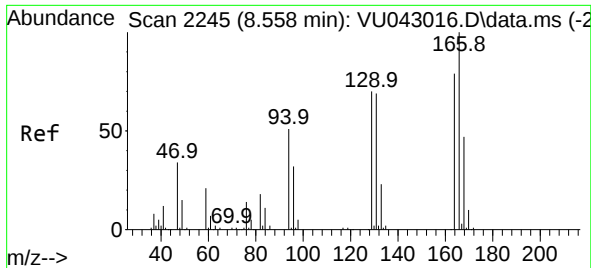
Tgt Ion: 95 Resp: 104080
Ion Ratio Lower Upper
95 100
174 86.4 0.0 172.2
176 83.6 0.0 168.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.423 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

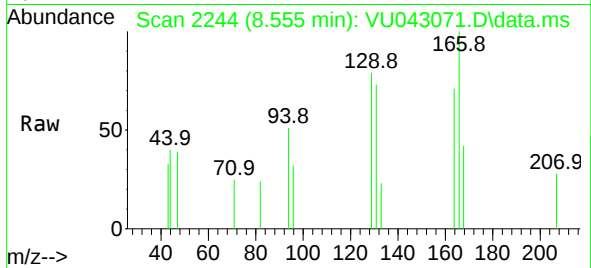
Tgt Ion: 117 Resp: 211444
Ion Ratio Lower Upper
117 100
82 58.5 45.8 68.6
119 31.9 25.8 38.8



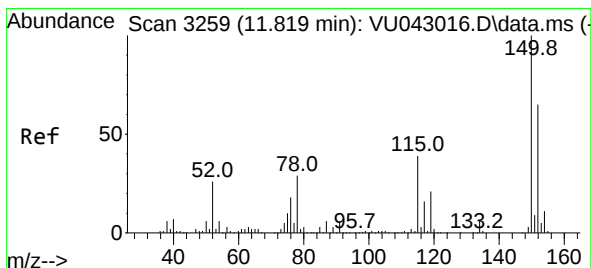
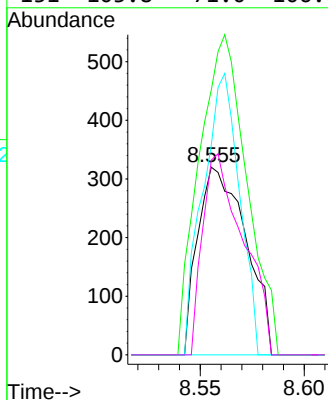
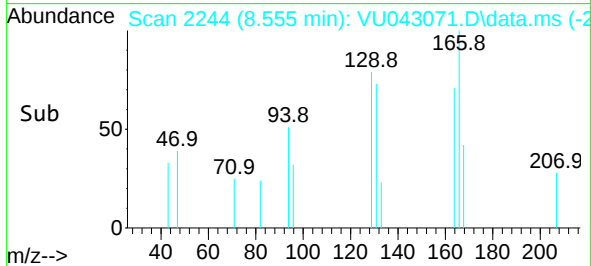


#64
Tetrachloroethene
Concen: 0.34 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

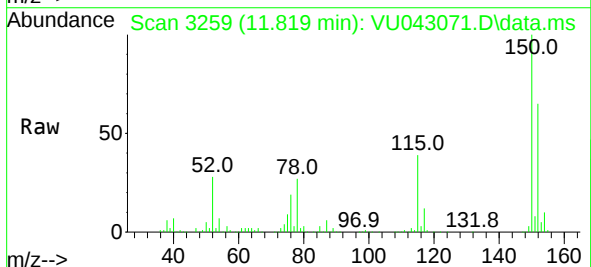
Instrument :
MSVOA_U
ClientSampleId :



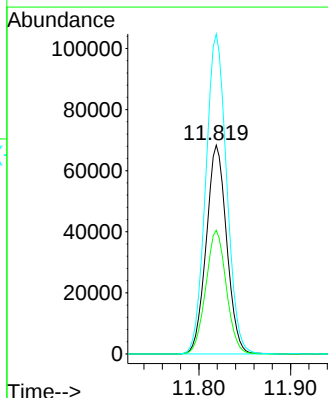
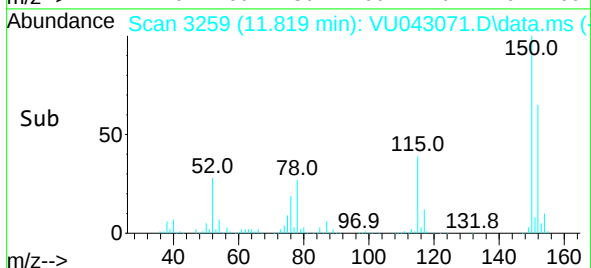
Tgt Ion:164 Resp: 516
Ion Ratio Lower Upper
164 100
166 141.3 105.3 157.9
129 111.9 75.0 112.6
131 103.8 71.0 106.6

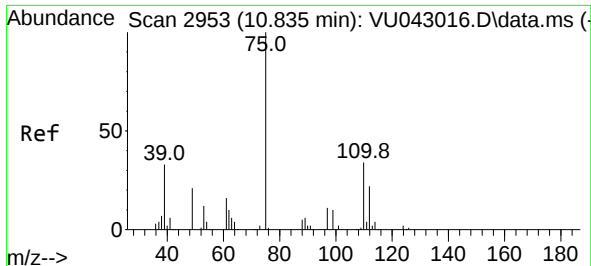


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.819 min Scan# 3259
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29



Tgt Ion:152 Resp: 106025
Ion Ratio Lower Upper
152 100
115 59.4 41.5 124.6
150 156.6 0.0 342.4

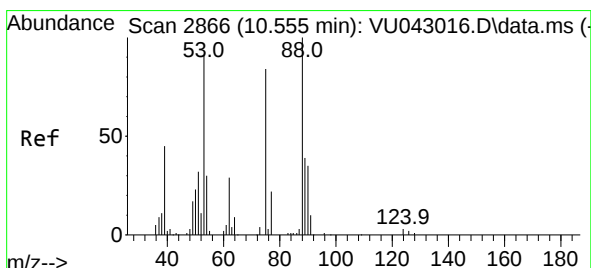
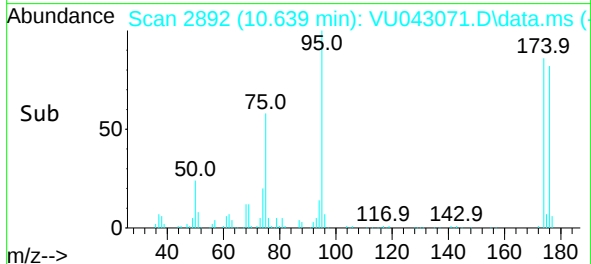
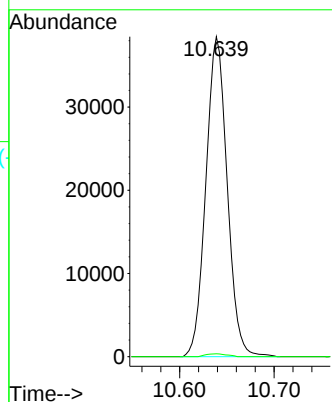
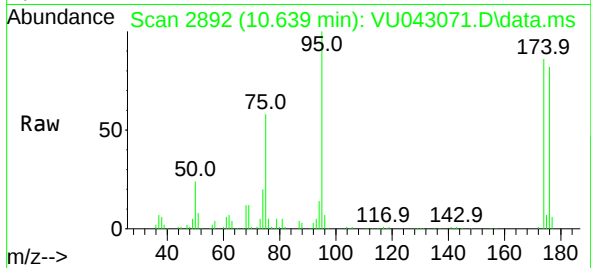




#76
1,2,3-Trichloropropane
Concen: 19.44 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.196 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

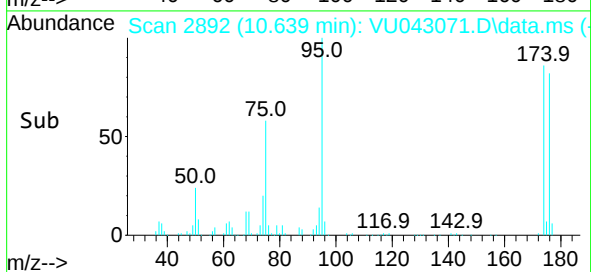
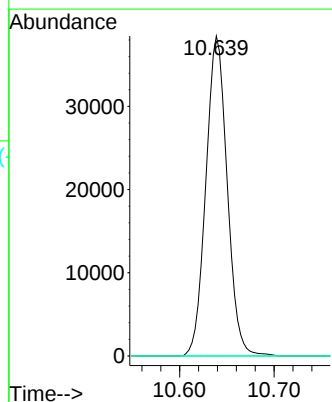
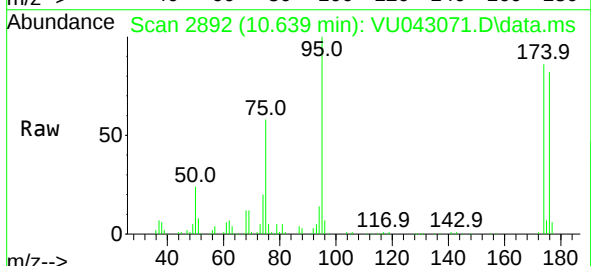
Instrument :
MSVOA_U
ClientSampleId :

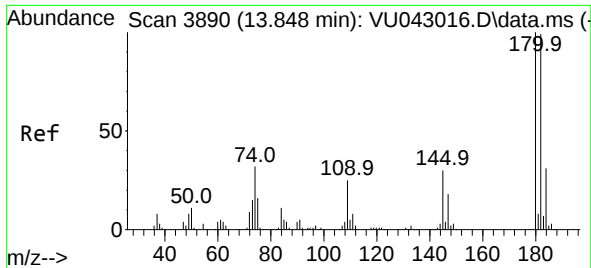
Tgt Ion: 75 Resp: 60240
Ion Ratio Lower Upper
75 100
77 0.9 20.2 60.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.13 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.084 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion: 75 Resp: 60240
Ion Ratio Lower Upper
75 100
53 0.0 85.6 128.4#
89 0.0 35.7 53.5#

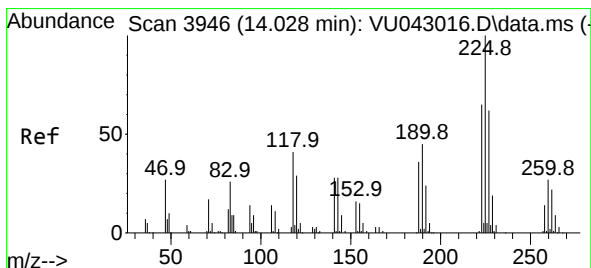
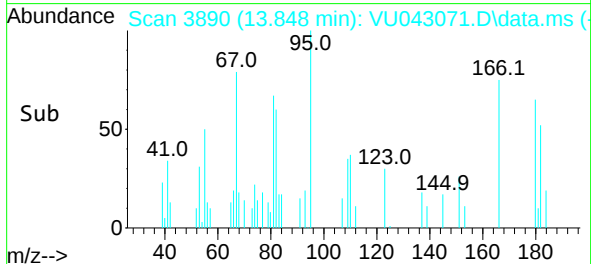
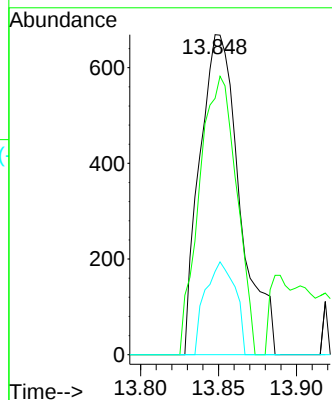
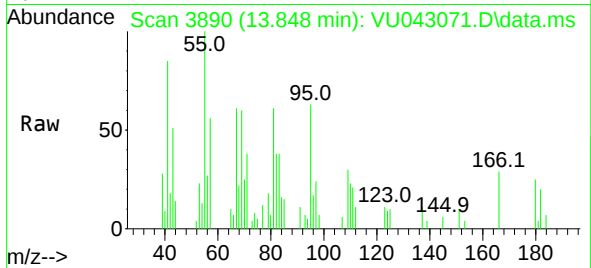




#93
1,2,4-Trichlorobenzene
Concen: 1.98 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

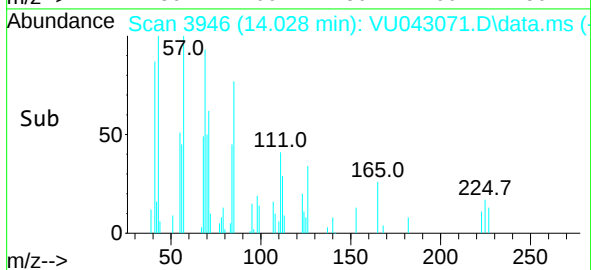
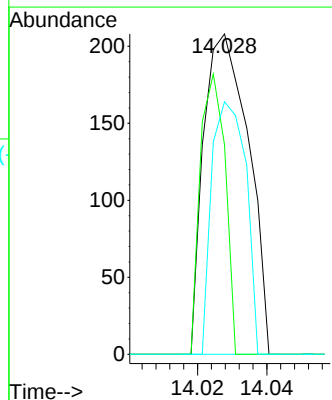
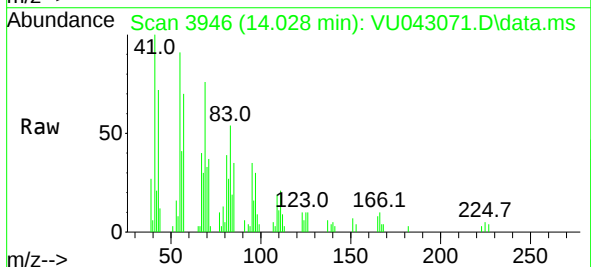
Instrument :
MSVOA_U
ClientSampleId :

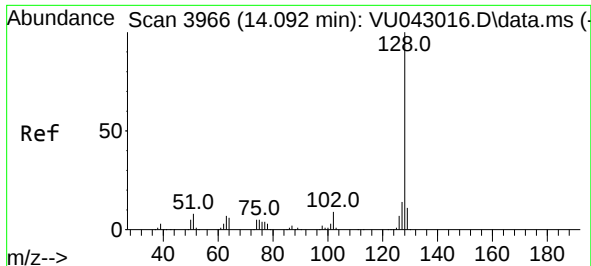
Tgt Ion:180 Resp: 1197
Ion Ratio Lower Upper
180 100
182 80.7 46.9 140.8
145 21.6 14.4 43.4



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 14.028 min Scan# 3946
Delta R.T. -0.000 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion:225 Resp: 187
Ion Ratio Lower Upper
225 100
223 48.1 32.3 96.9
227 59.9 31.8 95.4

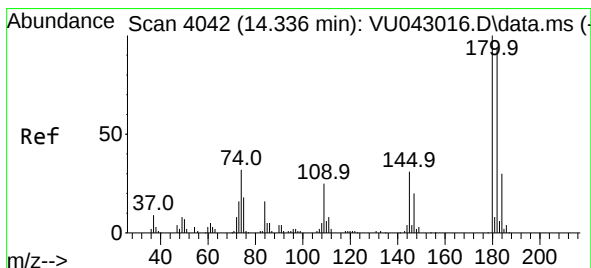
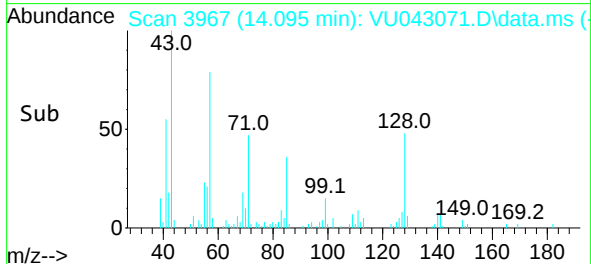
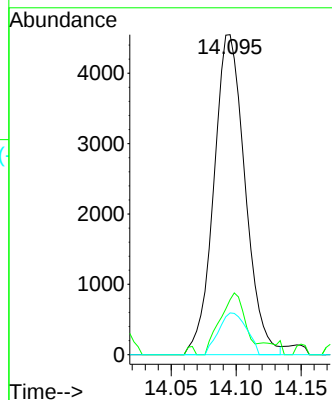
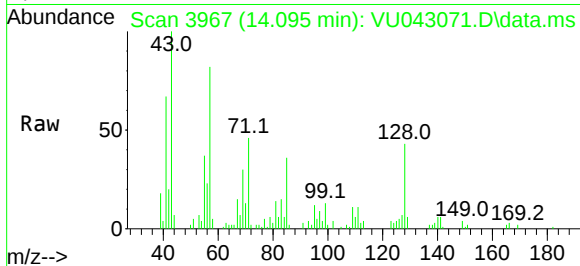




#95
Naphthalene
Concen: 3.68 ug/l
RT: 14.095 min Scan# 3967
Delta R.T. 0.003 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128	Resp:	7600
Ion Ratio	Lower	Upper
128	100	
127	15.7	10.8 16.2
129	11.7	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.89 ug/l
RT: 14.340 min Scan# 4043
Delta R.T. 0.004 min
Lab File: VU043071.D
Acq: 13 Apr 2021 23:29

Tgt Ion:180	Resp:	1033
Ion Ratio	Lower	Upper
180	100	
182	136.9	48.0 144.0
145	31.3	15.5 46.5

