

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061320\
 Data File : VU038859.D
 Acq On : 12 Jun 2020 18:14
 Operator : SY/MD
 Sample : L2990-05MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 13 01:00:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	276277	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	274135	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	125970	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	96509	6.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	128.20%
7) Chloroethane-d5	1.93	69	76163	6.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	126.00%
11) 1,1-Dichloroethene-d2	2.59	63	205585	6.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	120.00%
20) 2-Butanone-d5	4.67	46	298796	63.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	126.44%
24) Chloroform-d	5.10	84	186450	5.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.80%
26) 1,2-Dichloroethane-d4	5.74	65	108421	5.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.00%
32) Benzene-d6	5.76	84	375371	5.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	117.20%
36) 1,2-Dichloropropane-d6	6.72	67	112429	5.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	117.40%
41) Toluene-d8	7.92	98	313172	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
43) trans-1,3-Dichloropropene-	8.20	79	46562	5.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	109.40%
46) 2-Hexanone-d5	8.65	63	259744	68.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	137.38%#
57) 1,1,2,2-Tetrachloroethane-	10.77	84	95731	5.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	129394	6.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	126.20%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.61	96	111262	5.750	ug/L	89
18) trans-1,2-Dichloroethene	3.39	96	3371	0.162	ug/L	80
19) 1,1-Dichloroethane	3.91	63	247338	6.615	ug/L	98
22) cis-1,2-Dichloroethene	4.70	96	29949	1.384	ug/L	99
25) Chloroform	5.13	83	18385	0.477	ug/L	97
27) 1,2-Dichloroethane	5.81	62	4292	0.160	ug/L #	72
29) 1,1,1-Trichloroethane	5.35	97	155803	4.605	ug/L	99
31) Carbon tetrachloride	5.35	117	19156	0.671	ug/L	100
33) Benzene	5.81	78	412218	4.976	ug/L	100
34) Trichloroethene	6.57	95	123015	5.687	ug/L	96
35) Methylcyclohexane	6.72	83	28297	0.841	ug/L #	17
37) 1,2-Dichloropropane	6.72	63	13226	0.634	ug/L #	86
38) Bromodichloromethane	7.13	83	10267	0.379	ug/L	98
39) cis-1,3-Dichloropropene	7.59	75	3229	0.104	ug/L #	58
42) Toluene	7.99	91	420376	4.807	ug/L	98
47) Tetrachloroethene	8.57	164	6442	0.387	ug/L	91
49) Dibromochloromethane	8.83	129	3713	0.209	ug/L	80

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 13 00:56:28 2020
Response via : Initial Calibration

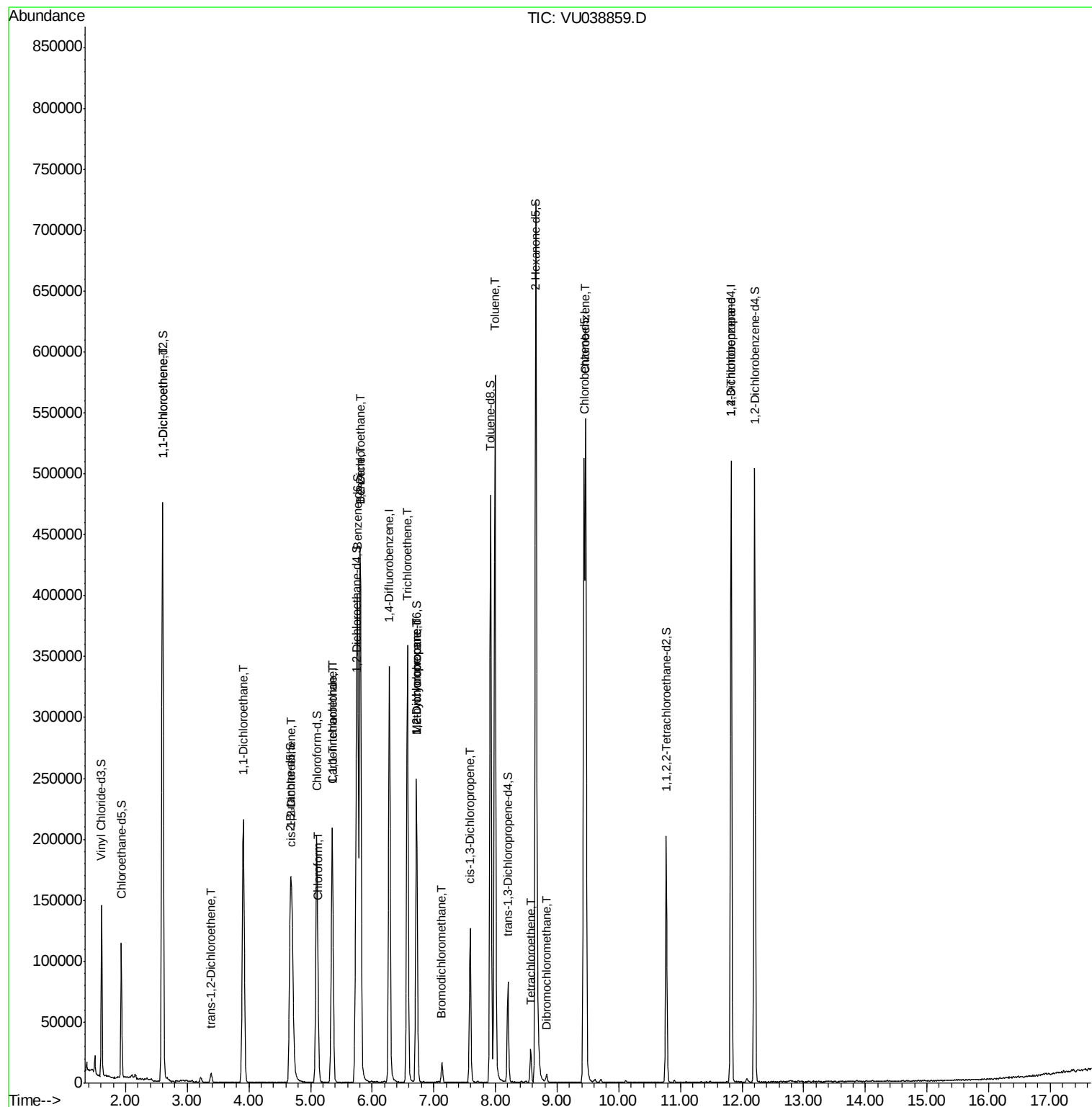
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.47	112	280159	4.975	ug/L	98
59) 1,2,3-Trichloropropane	11.82	75	16348	1.056	ug/L	89

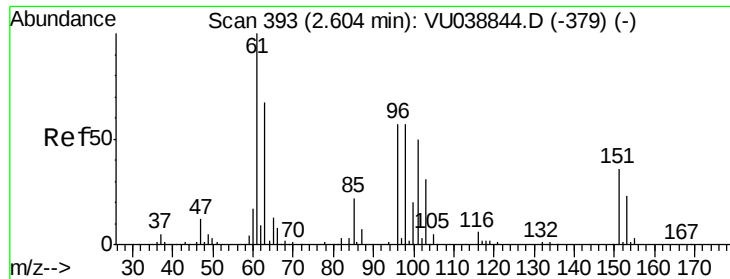
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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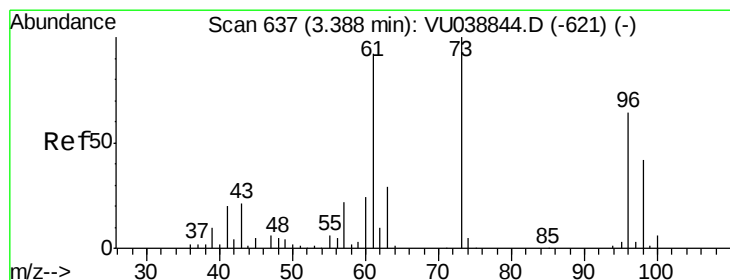
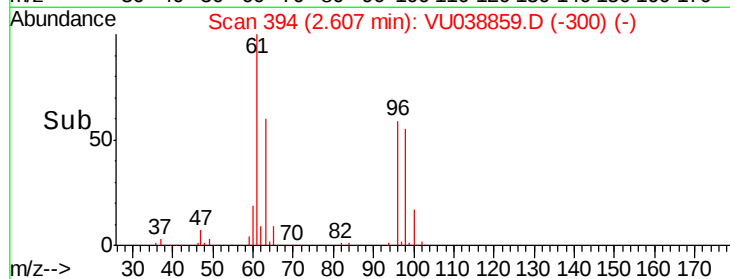
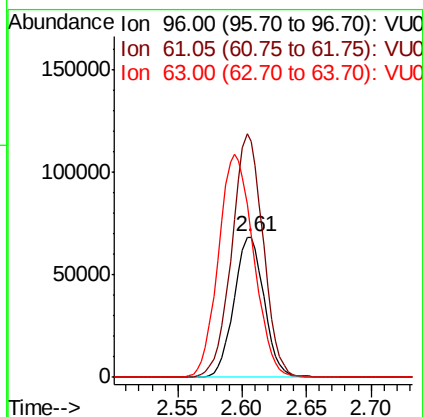
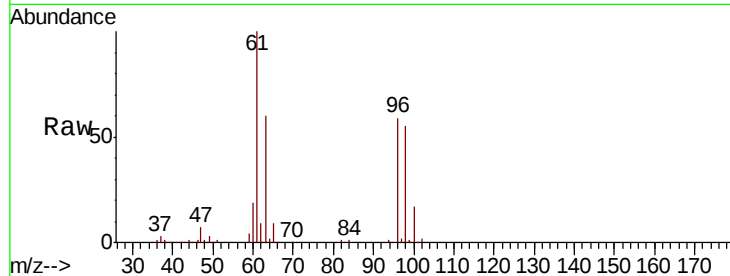




#12
 1,1-Dichloroethene
 Concen: 5.750 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. 0.00 min
 Lab File: VU038859.D
 Acq: 12 Jun 2020 18:14

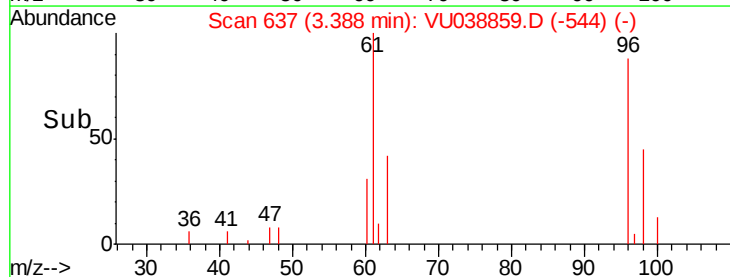
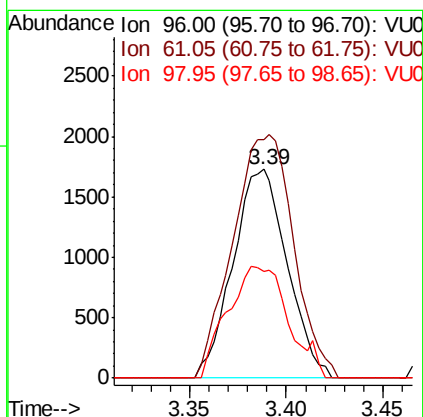
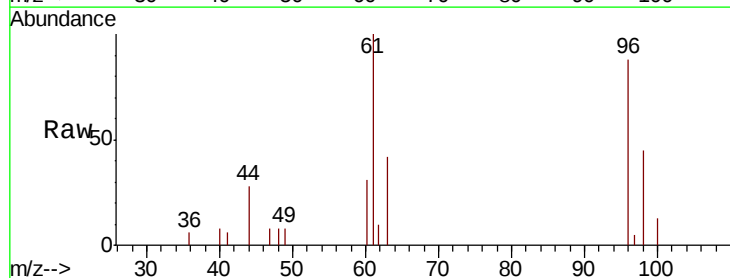
Instrument :
 MSVOA_U
 ClientSampleId :

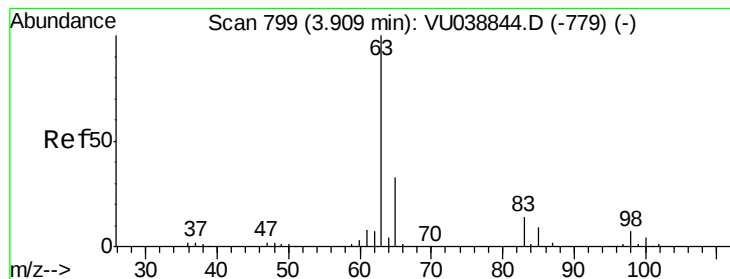
Tot Ion	Ratio	Lower	Upper
96	100		
61	168.5	120.2	223.2
63	101.8	90.1	167.3



#18
 trans-1,2-Dichloroethene
 Concen: 0.162 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VU038859.D
 Acq: 12 Jun 2020 18:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.9	99.3	184.5
98	51.0	43.9	81.5





#19

1,1-Dichloroethane

Concen: 6.615 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

Instrument :

MSVOA_U

ClientSampleId :

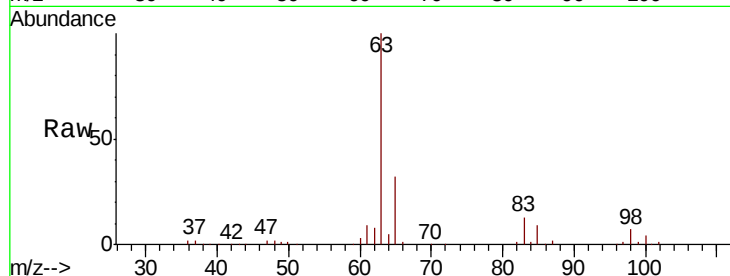
Tot Ion: 63 Resp: 247338

Ion Ratio Lower Upper

63 100

65 32.5 22.3 41.5

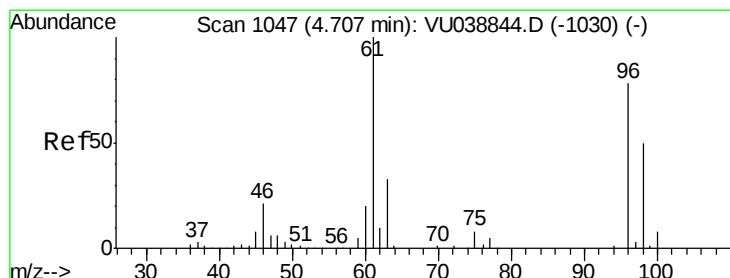
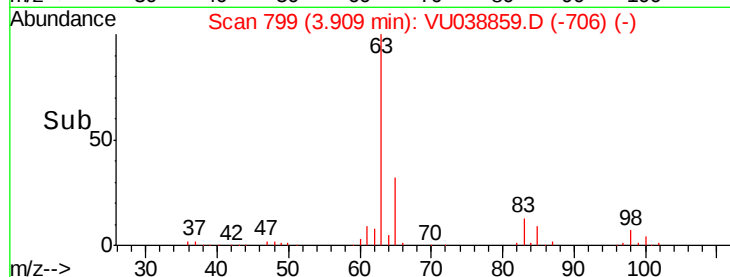
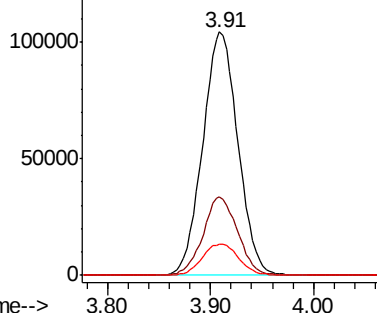
83 12.7 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU038844.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038844.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038844.D (-779) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.384 ug/L

RT: 4.70 min Scan# 1046

Delta R.T. -0.00 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

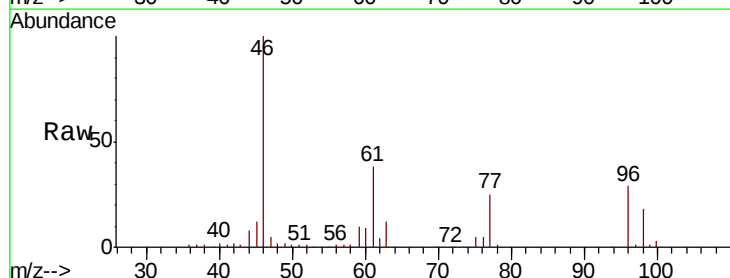
Tgt Ion: 96 Resp: 29949

Ion Ratio Lower Upper

96 100

61 129.0 89.7 166.7

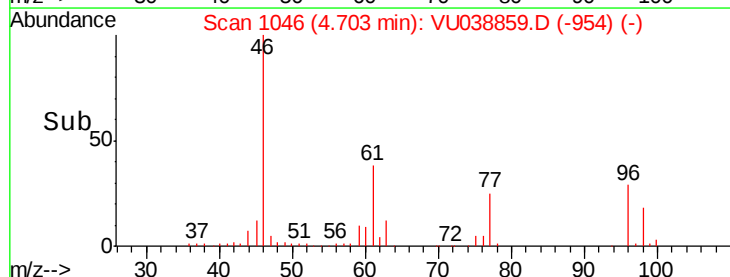
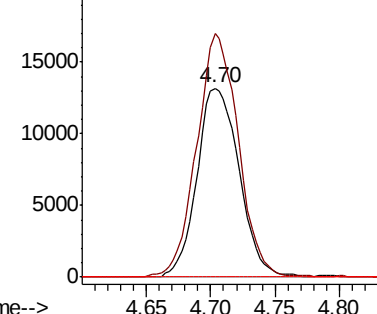
68 0.0 0.0 0.0

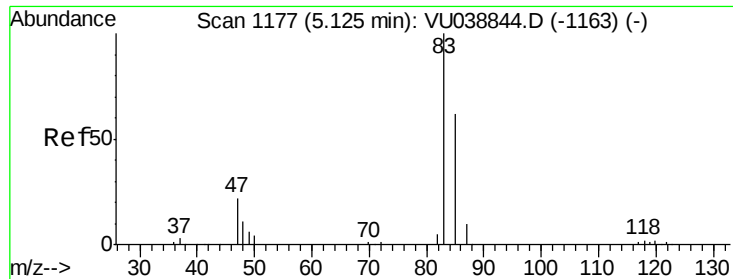


Abundance Ion 96.00 (95.70 to 96.70): VU038844.D (-1030) (-)

Ion 61.05 (60.75 to 61.75): VU038844.D (-1030) (-)

Ion 68.15 (67.85 to 68.85): VU038844.D (-1030) (-)

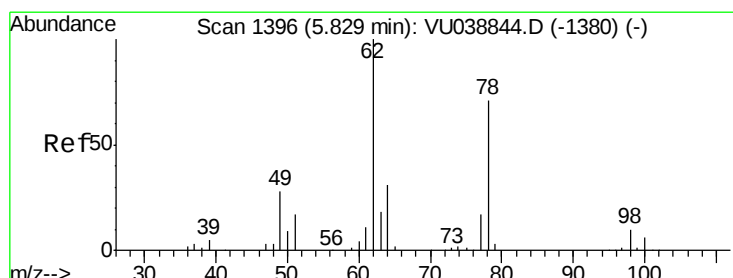
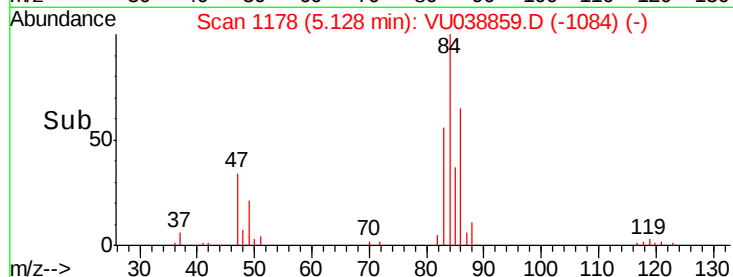
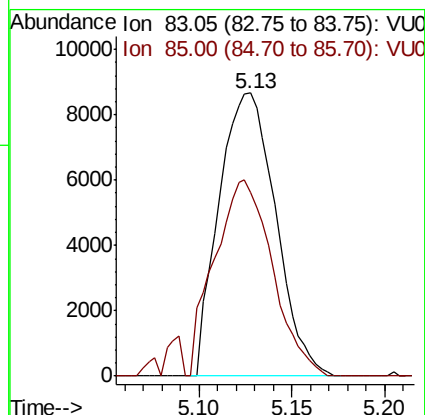
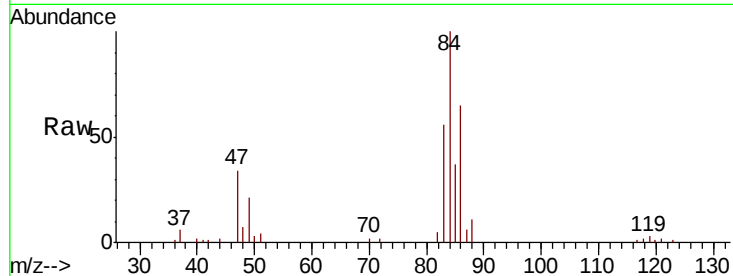




#25
Chloroform
Concen: 0.477 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

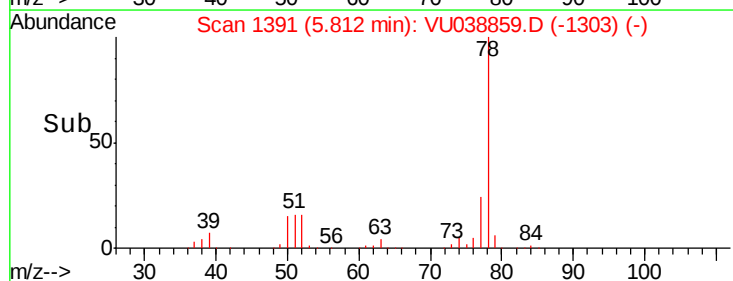
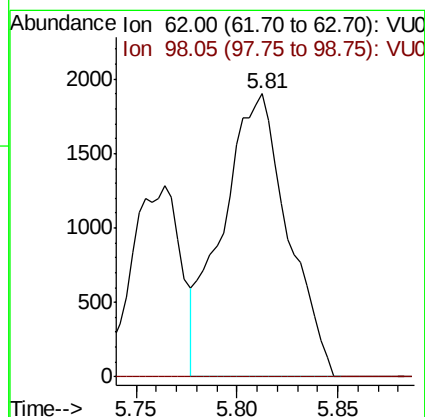
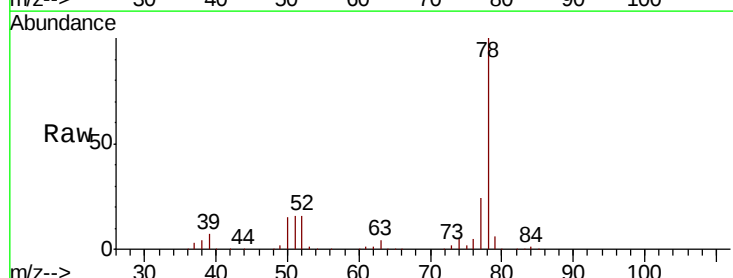
Instrument :
MSVOA_U
ClientSampleId :

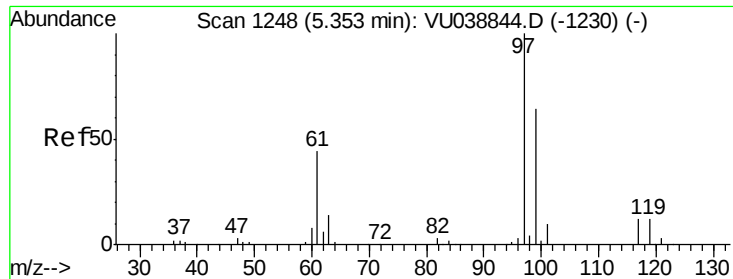
Tot Ion: 83 Resp: 18385
Ion Ratio Lower Upper
83 100
85 65.1 44.1 81.9



#27
1,2-Dichloroethane
Concen: 0.160 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. -0.02 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Tgt Ion: 62 Resp: 4292
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#

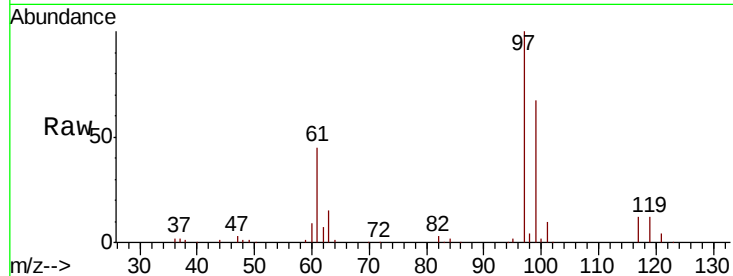




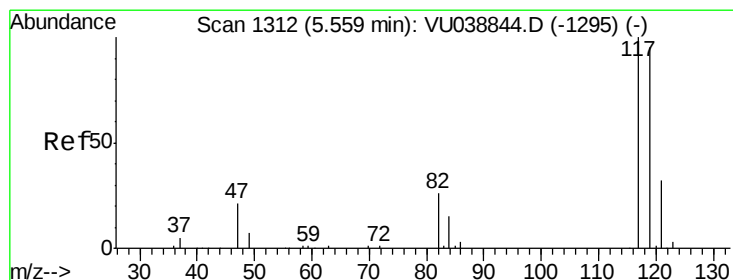
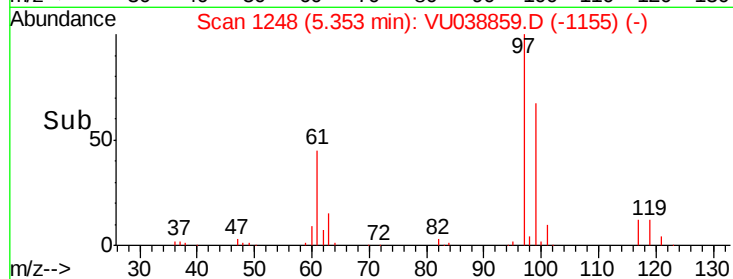
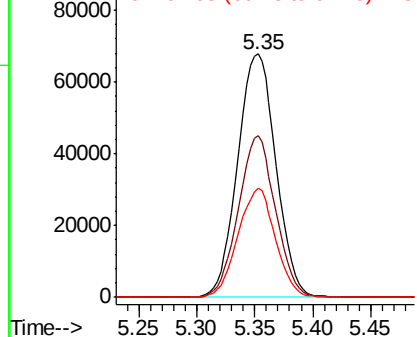
#29
 1,1,1-Trichloroethane
 Concen: 4.605 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU038859.D
 Acq: 12 Jun 2020 18:14

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 155803
 Ion Ratio Lower Upper
 97 100
 99 64.2 52.1 78.1
 61 43.8 35.9 53.9

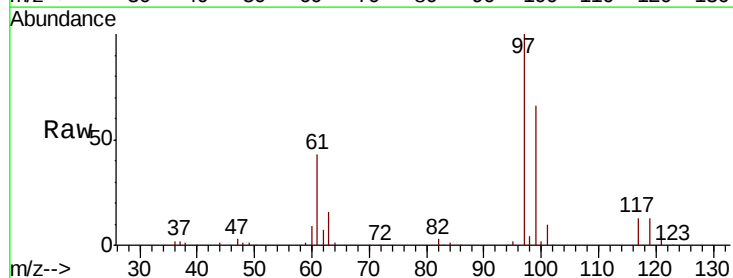


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

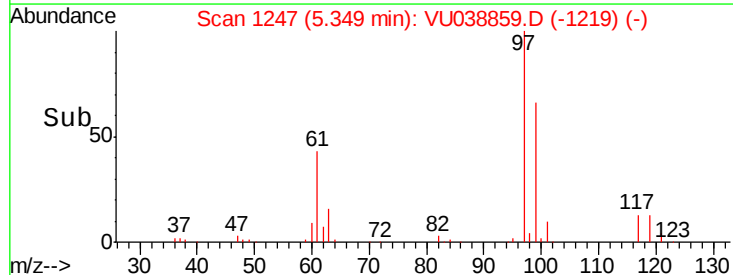
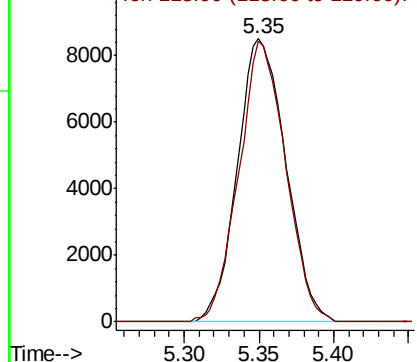


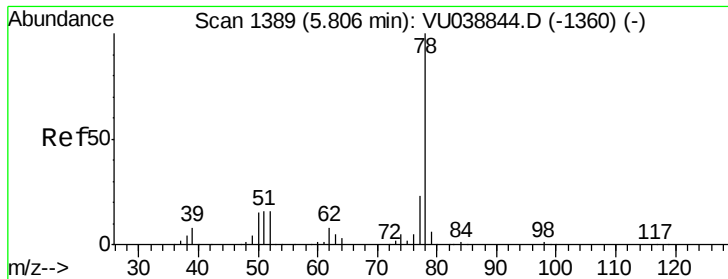
#31
 Carbon tetrachloride
 Concen: 0.671 ug/L
 RT: 5.35 min Scan# 1247
 Delta R.T. -0.21 min
 Lab File: VU038859.D
 Acq: 12 Jun 2020 18:14

Tgt Ion: 117 Resp: 19156
 Ion Ratio Lower Upper
 117 100
 119 95.6 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 4.976 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038859.D

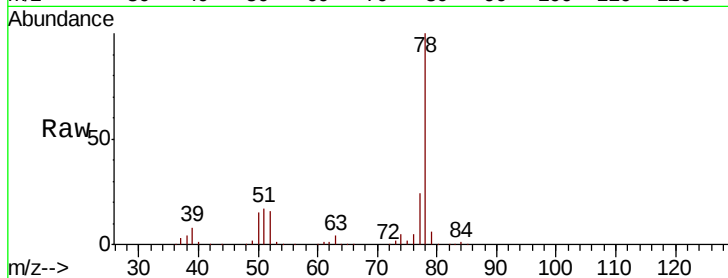
Acq: 12 Jun 2020 18:14

Instrument :

MSVOA_U

ClientSampled :

Tgt Ion: 78 Resp: 412218



Abundance Ion 78.10 (77.80 to 78.80): VU0

200000

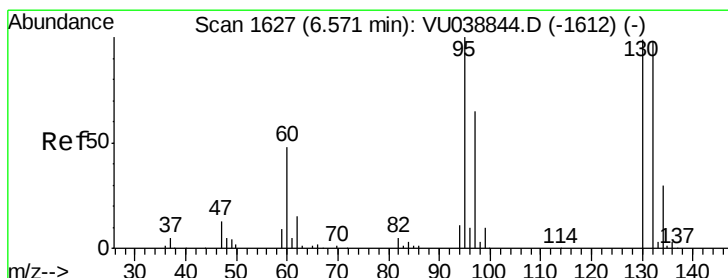
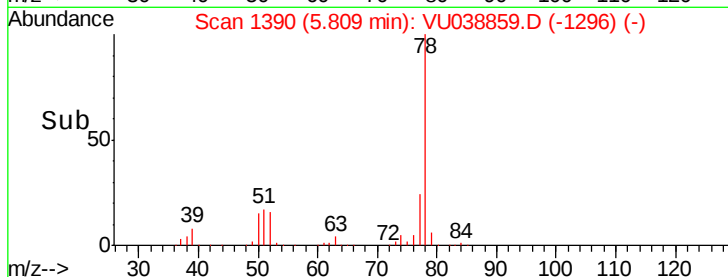
150000

100000

50000

0

Time-->



#34

Trichloroethene

Concen: 5.687 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

Tgt Ion: 95 Resp: 123015

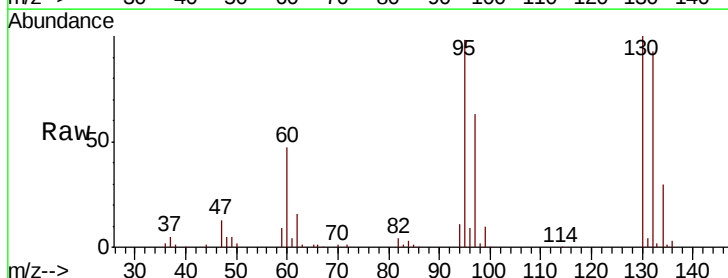
Ion	Ratio	Lower	Upper
95	100		
97	63.5	46.1	85.5
132	94.8	67.5	125.3
130	101.6	66.7	123.9

95 100

97 63.5 46.1 85.5

132 94.8 67.5 125.3

130 101.6 66.7 123.9



Abundance Ion 95.00 (94.70 to 95.70): VU0

100000 Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

80000

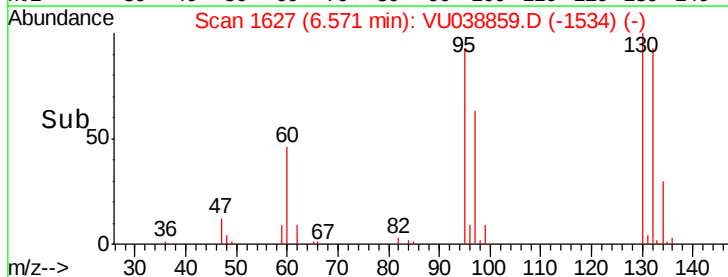
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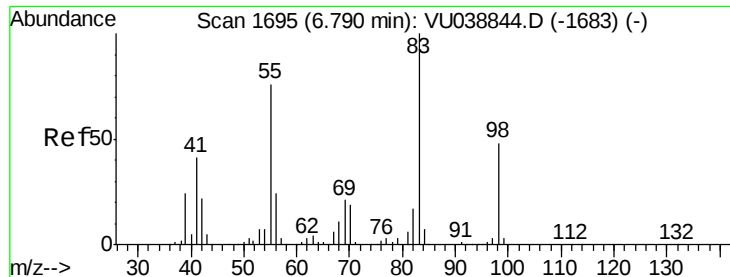
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Time-->

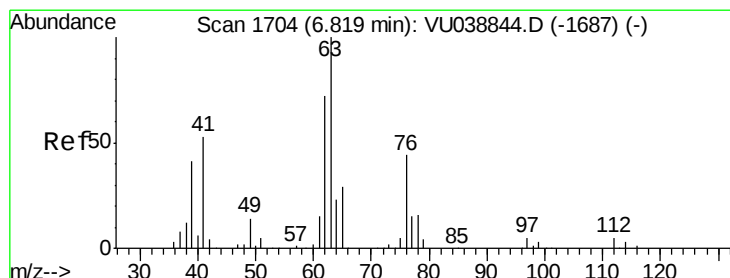
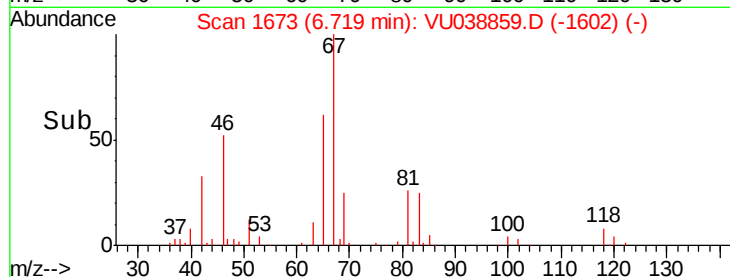
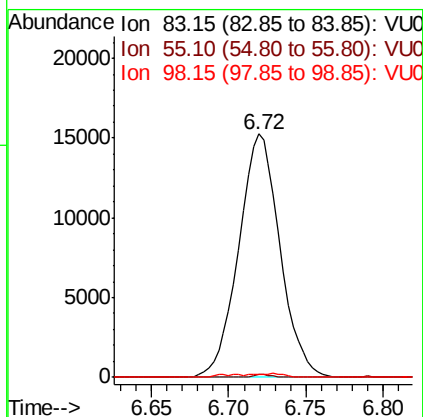
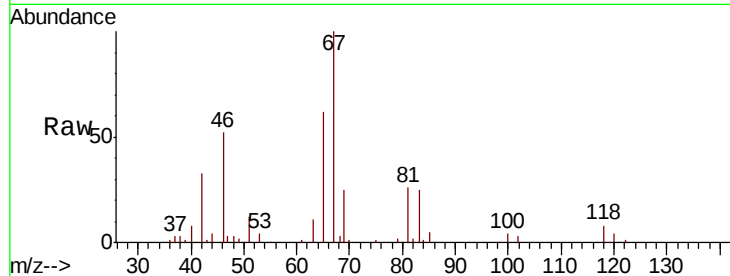




#35
Methylcyclohexane
Concen: 0.841 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

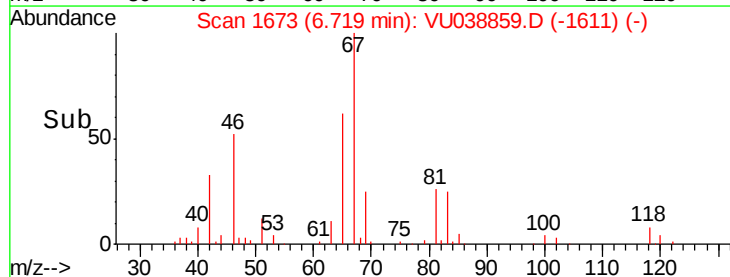
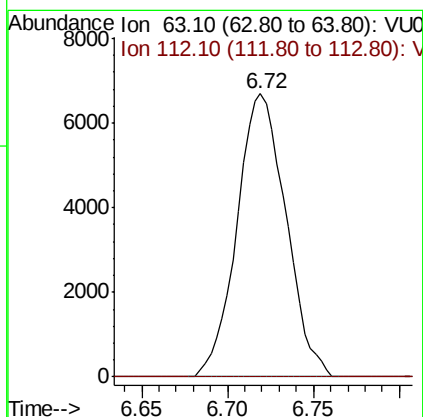
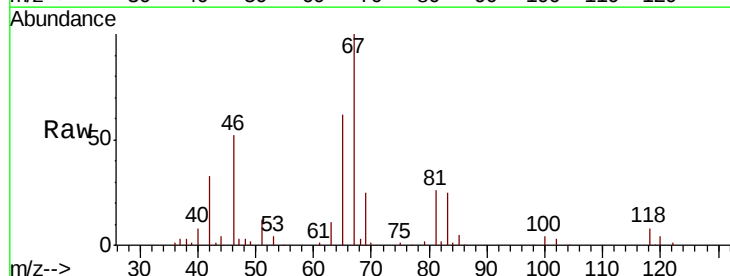
Instrument :
MSVOA_U
ClientSampleId :

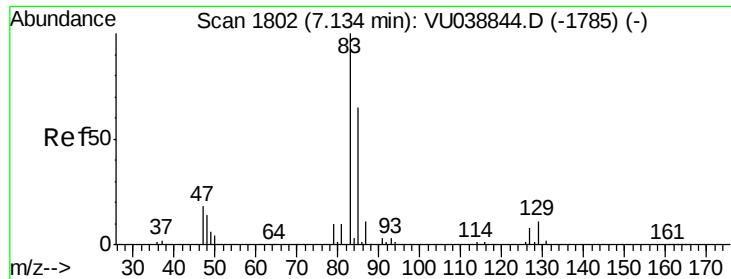
Tot Ion: 83 Resp: 28297
Ion Ratio Lower Upper
83 100
55 0.5 64.2 96.2#
98 0.7 40.5 60.7#



#37
1,2-Dichloropropane
Concen: 0.634 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Tgt Ion: 63 Resp: 13226
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#

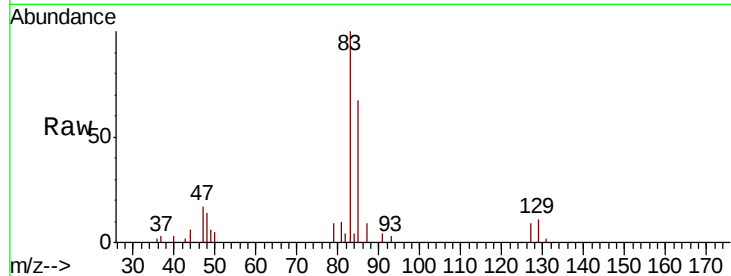




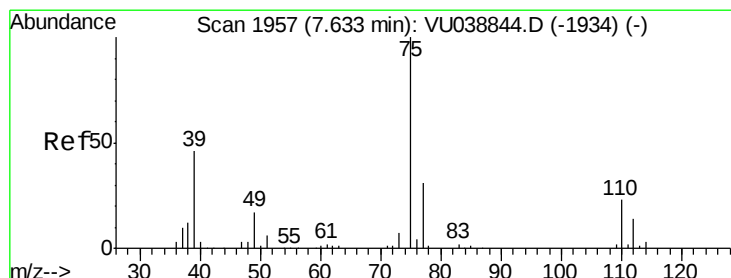
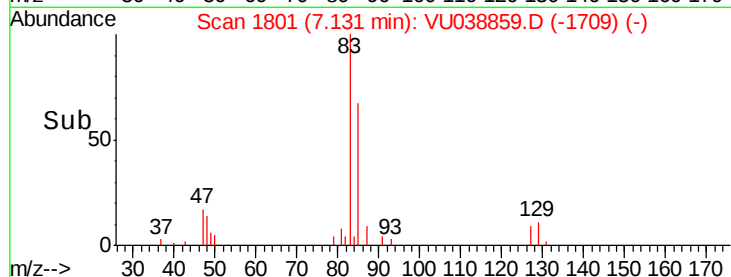
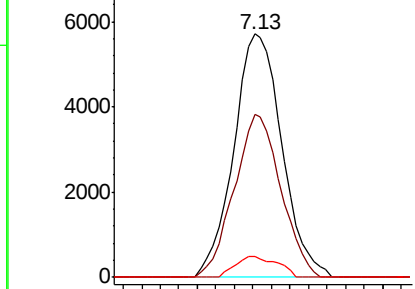
#38
Bromodichloromethane
Concen: 0.379 ug/L
RT: 7.13 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 10267
Ion Ratio Lower Upper
83 100
85 66.8 45.3 84.1
127 8.8 7.1 10.7

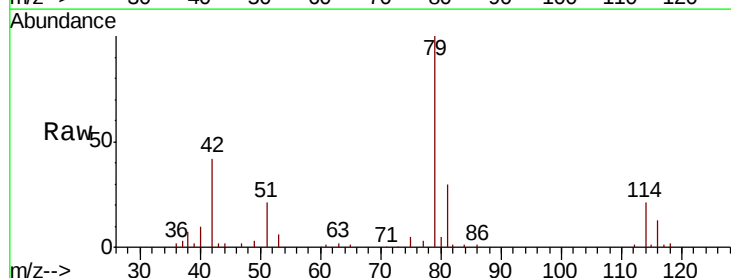


Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 126.90 (126.60 to 127.60): V

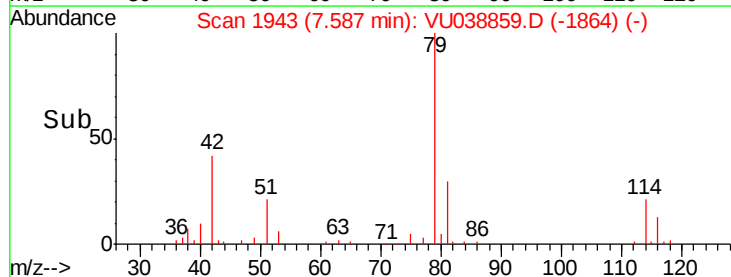
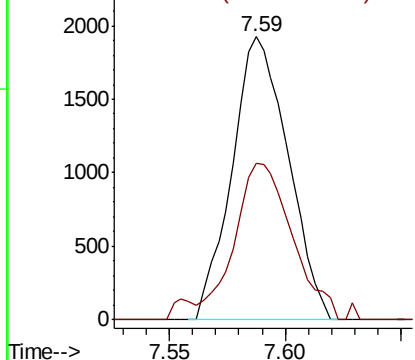


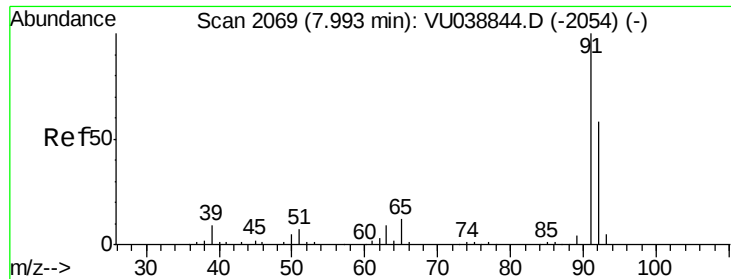
#39
cis-1,3-Dichloropropene
Concen: 0.104 ug/L
RT: 7.59 min Scan# 1943
Delta R.T. -0.05 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Tgt Ion: 75 Resp: 3229
Ion Ratio Lower Upper
75 100
77 55.5 22.4 41.6#



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0





#42

Toluene

Concen: 4.807 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

Instrument :

MSVOA_U

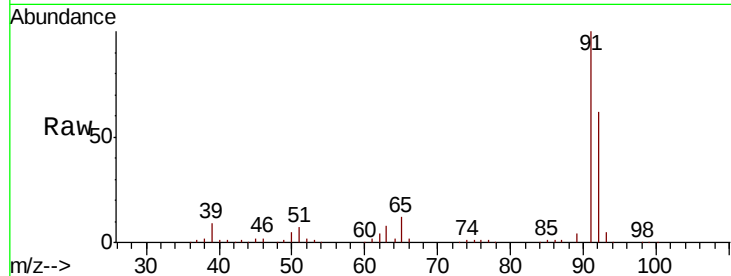
ClientSampled :

Tot Ion: 91 Resp: 420376

Ion Ratio Lower Upper

91 100

92 62.3 42.4 78.6



Abundance Ion 91.15 (90.85 to 91.85): VU038844.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU038844.D (-2054) (-)

7.99

250000

200000

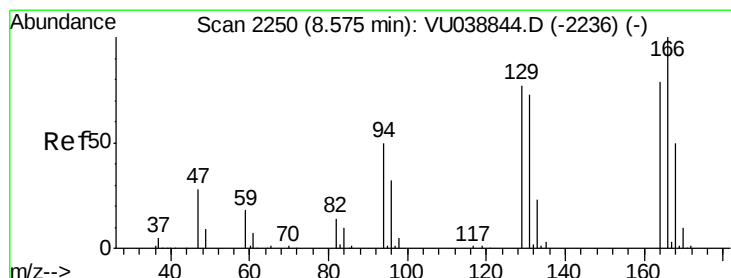
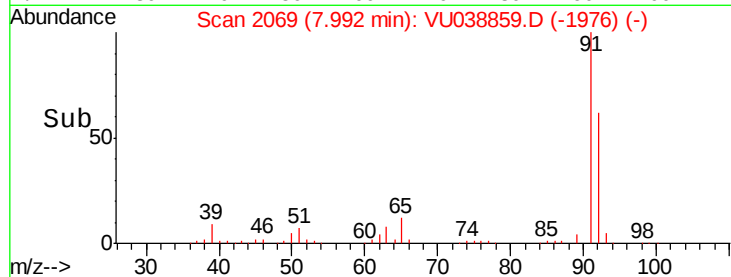
150000

100000

50000

0

Time-->



#47

Tetrachloroethene

Concen: 0.387 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

Tgt Ion:164 Resp: 6442

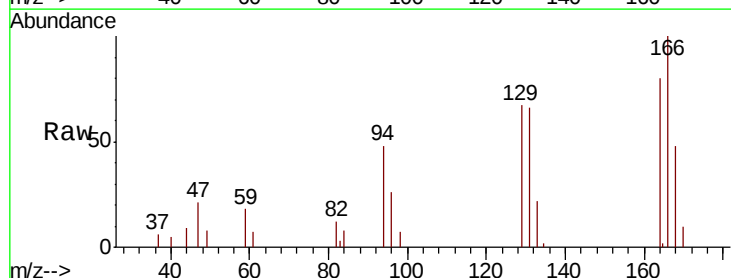
Ion Ratio Lower Upper

164 100

129 83.3 67.3 124.9

131 81.8 65.0 120.6

166 124.3 91.0 169.0



Abundance Ion 163.90 (163.60 to 164.60): VU038844.D (-2236) (-)

Ion 128.95 (128.65 to 129.65): VU038844.D (-2236) (-)

Ion 130.95 (130.65 to 131.65): VU038844.D (-2236) (-)

Ion 165.90 (165.60 to 166.60): VU038844.D (-2236) (-)

8.57

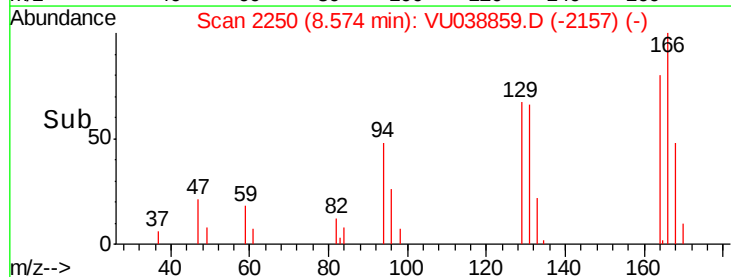
6000

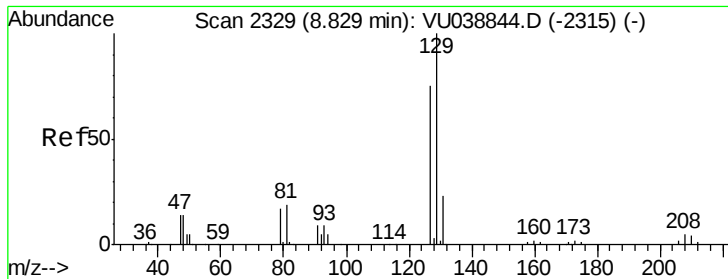
4000

2000

0

Time-->

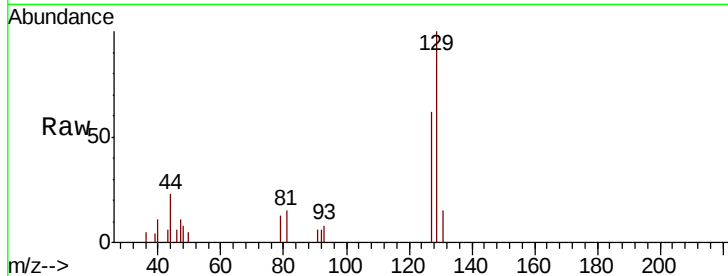




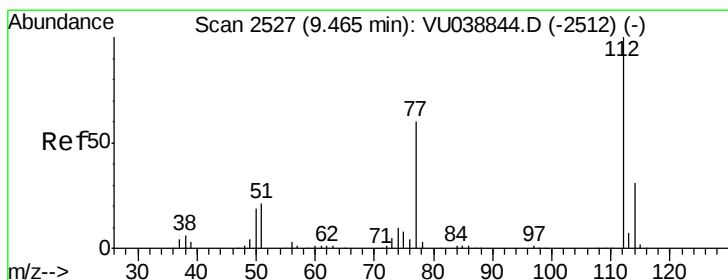
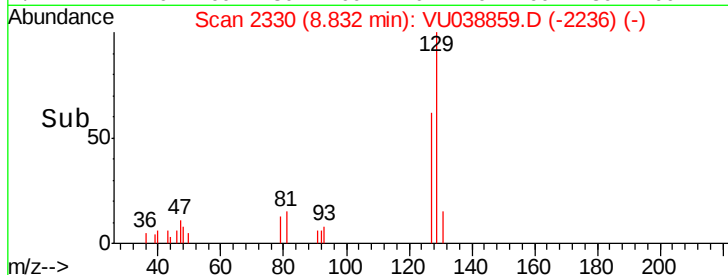
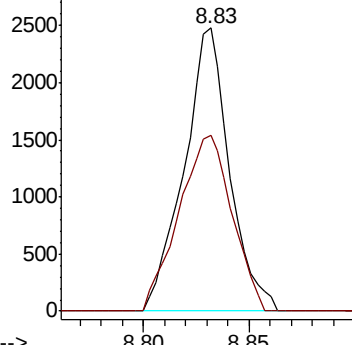
#49
Dibromochloromethane
Concen: 0.209 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:129 Resp: 3713
Ion Ratio Lower Upper
129 100
127 62.0 55.5 103.1

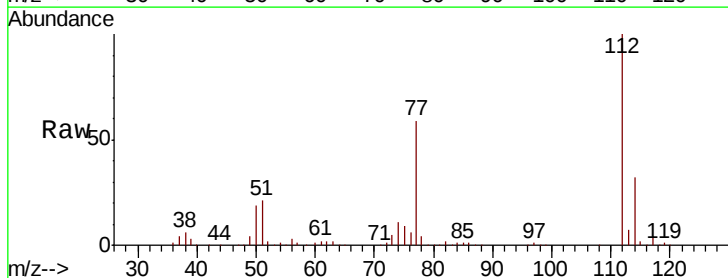


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

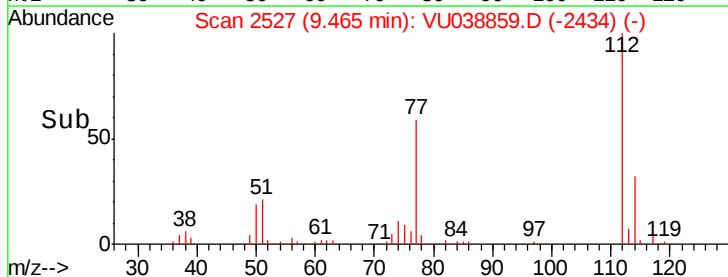
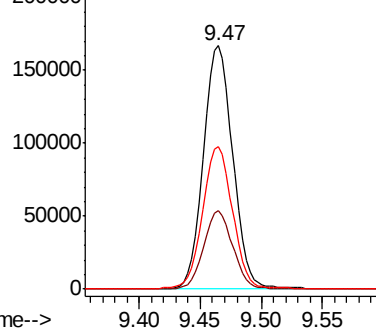


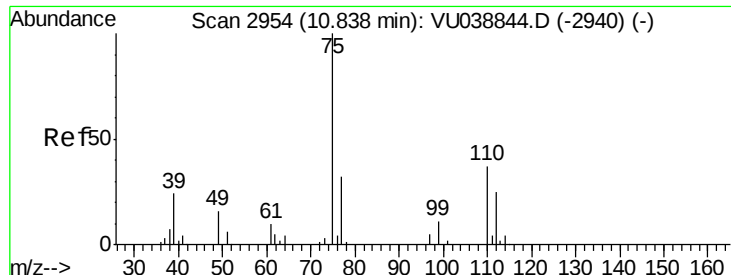
#51
Chlorobenzene
Concen: 4.975 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038859.D
Acq: 12 Jun 2020 18:14

Tgt Ion:112 Resp: 280159
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.9
77 58.8 49.3 73.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU





#59

1,2,3-Trichloropropane

Concen: 1.056 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038859.D

Acq: 12 Jun 2020 18:14

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 16348

Ion Ratio Lower Upper

75 100

77 38.6 25.8 38.8

