

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101818\
 Data File : VU027701.D
 Acq On : 18 Oct 2018 16:03
 Operator : MD/SY
 Sample : J5463-13DL 4X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JC4DL

Quant Time: Oct 19 08:15:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 19 08:11:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	75986	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	69641	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	34816	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	29324	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.68	69	22577	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.28	63	47527	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.60%
20) 2-Butanone-d5	4.20	46	80309	46.77	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.54%
24) Chloroform-d	4.65	84	45163	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.31	65	24587	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
32) Benzene-d6	5.34	84	96964	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	6.33	67	33012	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	7.57	98	93050	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
43) trans-1,3-Dichloropropene-	7.85	79	13476	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.31	63	68086	47.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	23356	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	32846	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	316	0.061 ug/L #	17
12) 1,1-Dichloroethene	2.29	96	17288	3.362 ug/L	92
13) Acetone	2.33	43	751	0.684 ug/L	52
17) Methyl tert-butyl Ether	3.01	73	1243	0.087 ug/L #	90
18) trans-1,2-Dichloroethene	2.98	96	481	0.088 ug/L #	58
19) 1,1-Dichloroethane	3.44	63	3480	0.320 ug/L	98
22) cis-1,2-Dichloroethene	4.23	96	18718	3.094 ug/L #	92
25) Chloroform	4.68	83	1288	0.123 ug/L	81
29) 1,1,1-Trichloroethane	4.92	97	2000	0.234 ug/L	93
34) Trichloroethene	6.19	95	33738	5.719 ug/L	100
35) Methylcyclohexane	6.33	83	7135	0.702 ug/L #	18
37) 1,2-Dichloropropane	6.33	63	3618	0.553 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	717	0.075 ug/L #	37
42) Toluene	7.64	91	1056	0.043 ug/L	90
47) Tetrachloroethene	8.23	164	43937	9.329 ug/L	99
48) 2-Hexanone	8.31	43	7703	2.434 ug/L #	67
49) Dibromochloromethane	8.23	129	41315	7.901 ug/L #	11

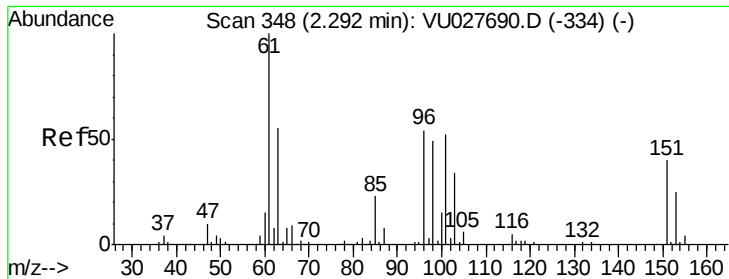
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101818\
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 19 08:11:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	4263	1.133	ug/L	90

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



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.061 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.02 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Instrument :

MSVOA_U

ClientSampleId :

C0JC4DL

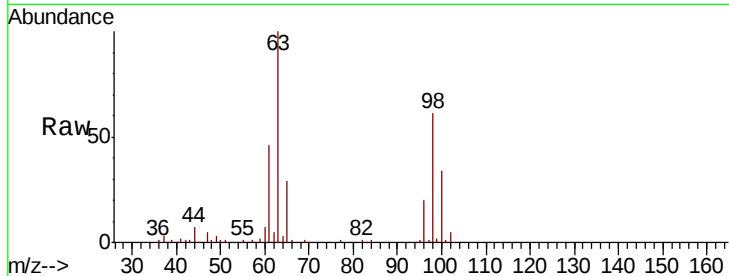
Tgt Ion: 101 Resp: 316

Ion Ratio Lower Upper

101 100

85 0.0 35.6 53.4#

151 0.0 63.8 95.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

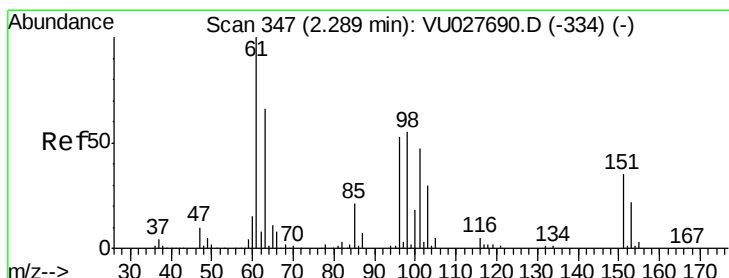
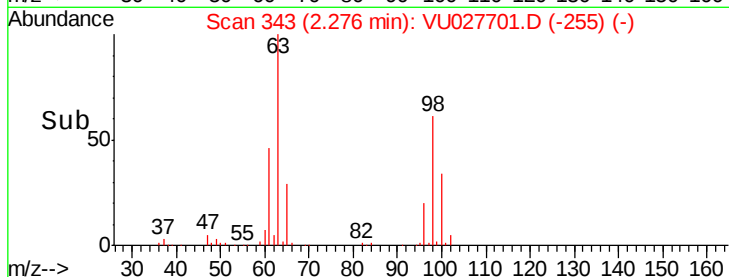
2.28

200

100

0

Time--> 2.24 2.26 2.28 2.30



#12

1,1-Dichloroethene

Concen: 3.362 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

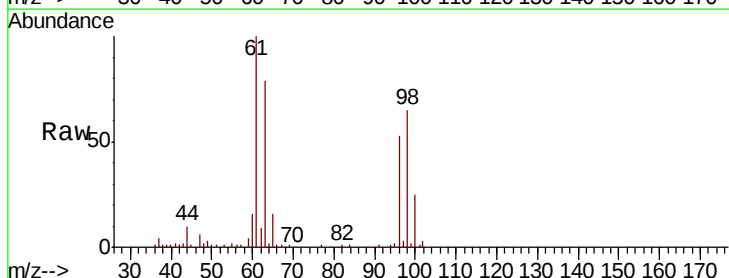
Tgt Ion: 96 Resp: 17288

Ion Ratio Lower Upper

96 100

61 189.3 125.6 233.2

63 149.4 97.6 181.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

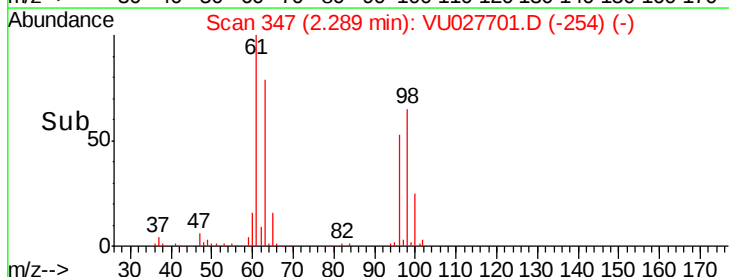
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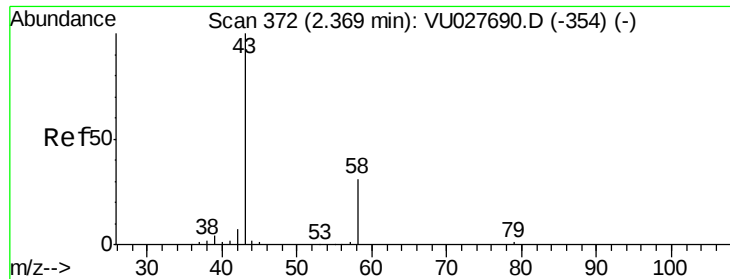
20000

10000

0

Time--> 2.20 2.25 2.30 2.35 2.40





#13

Acetone

Concen: 0.684 ug/L

RT: 2.33 min Scan# 361

Delta R.T. -0.04 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Instrument :

MSVOA_U

ClientSampleId :

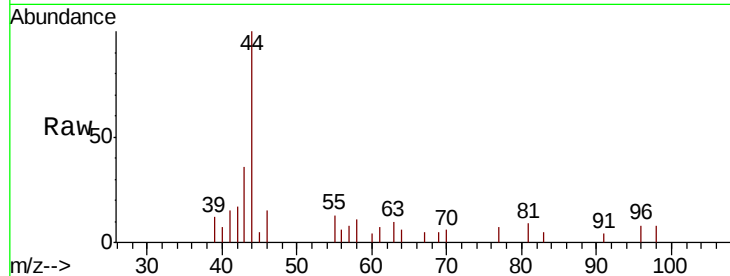
C0JC4DL

Tgt Ion: 43 Resp: 751

Ion Ratio Lower Upper

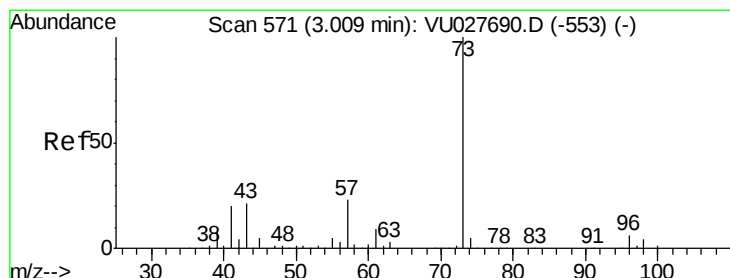
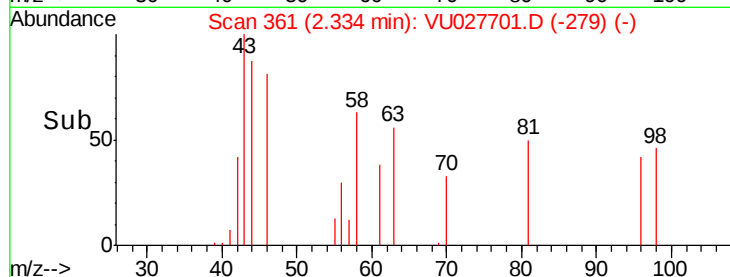
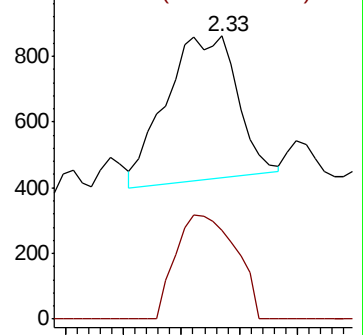
43 100

58 60.6 0.0 66.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#17

Methyl tert-butyl Ether

Concen: 0.087 ug/L

RT: 3.01 min Scan# 571

Delta R.T. -0.00 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

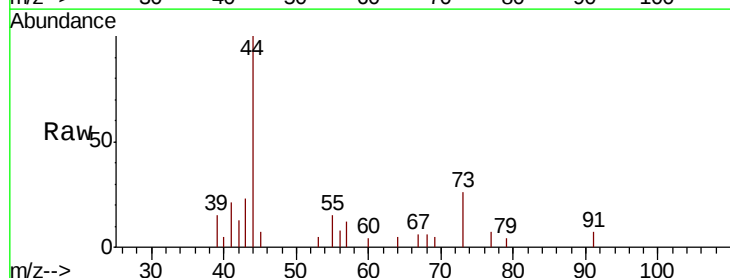
Tgt Ion: 73 Resp: 1243

Ion Ratio Lower Upper

73 100

43 9.7 15.8 23.8#

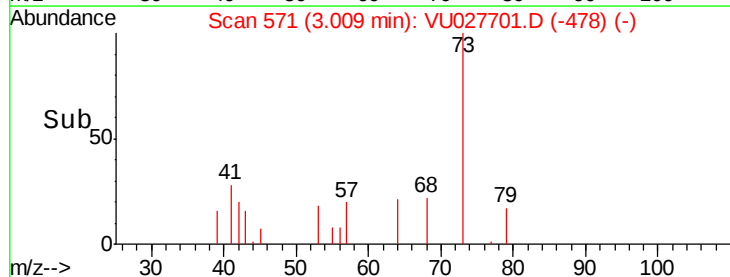
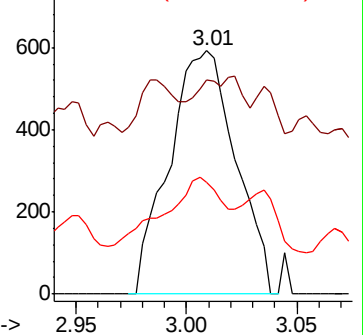
57 23.3 18.7 28.1

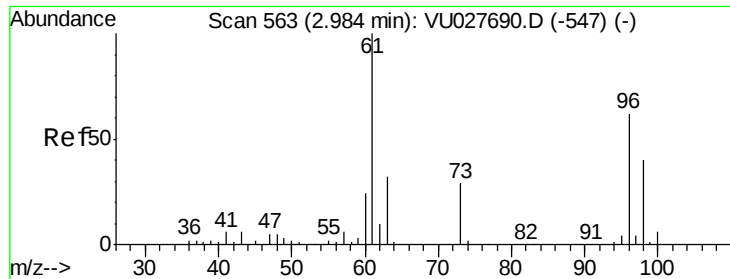


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

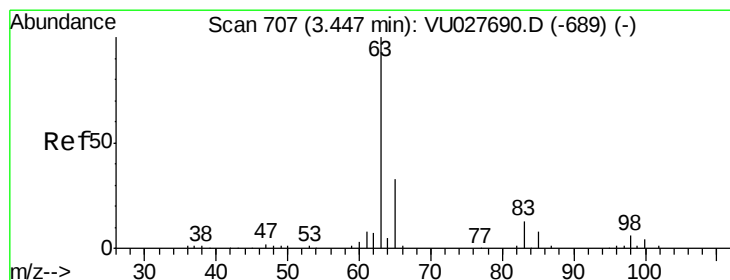
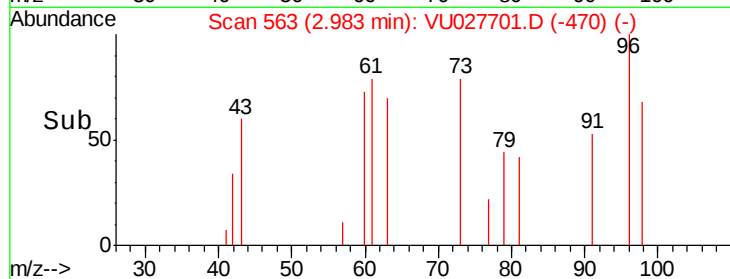
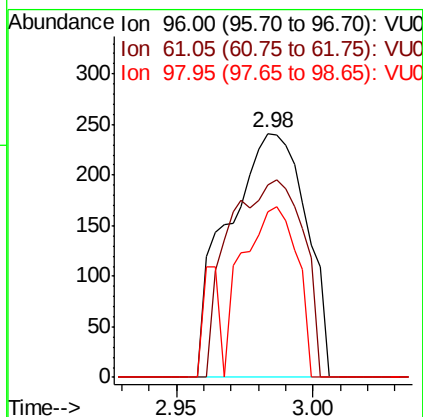
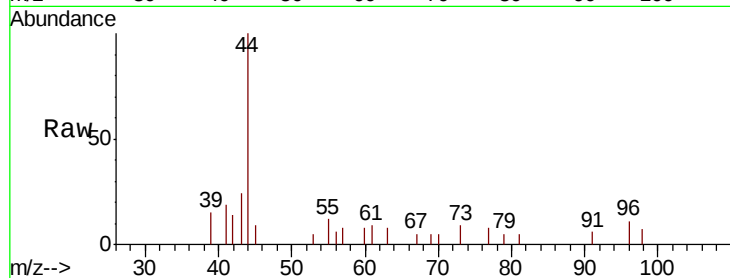




#18
trans-1,2-Dichloroethene
Concen: 0.088 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU027701.D
Acq: 18 Oct 2018 16:03

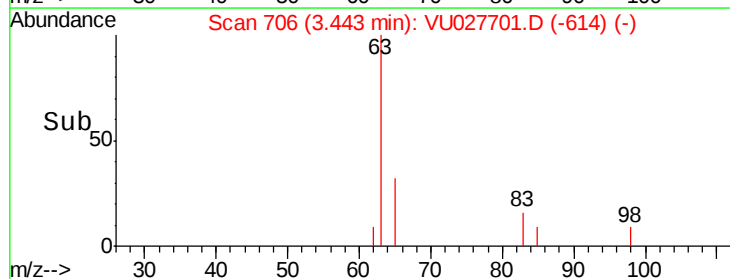
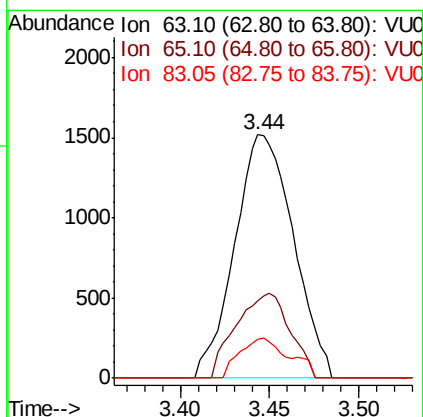
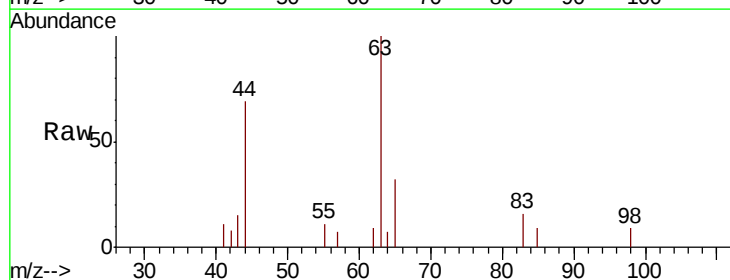
Instrument :
MSVOA_U
ClientSampleId :
C0JC4DL

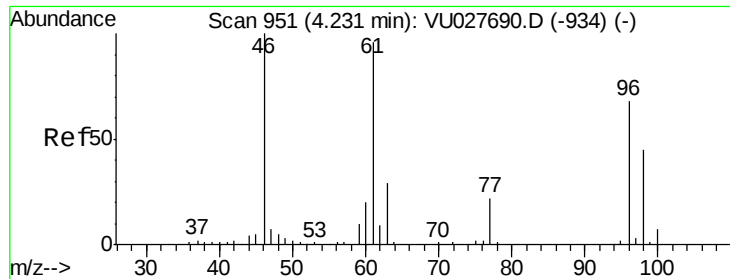
Tgt Ion: 96 Resp: 481
Ion Ratio Lower Upper
96 100
61 78.8 105.8 196.4#
98 68.0 43.6 81.0



#19
1,1-Dichloroethane
Concen: 0.320 ug/L
RT: 3.44 min Scan# 706
Delta R.T. -0.00 min
Lab File: VU027701.D
Acq: 18 Oct 2018 16:03

Tgt Ion: 63 Resp: 3480
Ion Ratio Lower Upper
63 100
65 31.7 22.3 41.3
83 16.0 9.7 17.9

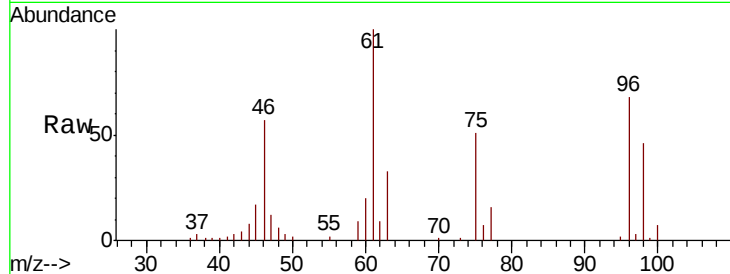




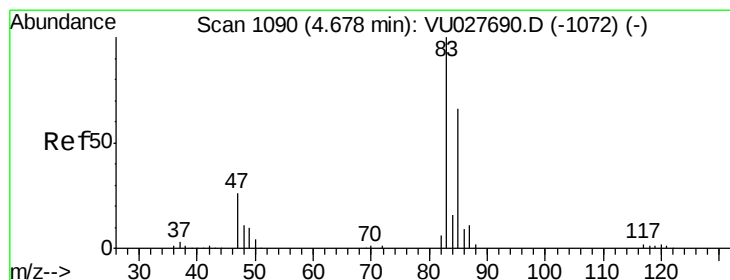
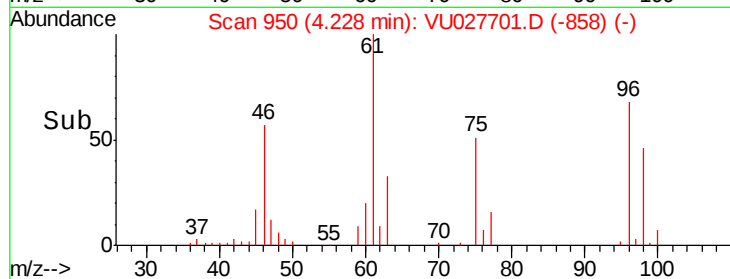
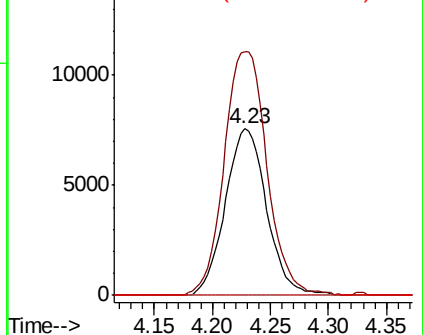
#22
 cis-1,2-Dichloroethene
 Concen: 3.094 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JC4DL

Tgt Ion: 96 Resp: 18718
 Ion Ratio Lower Upper
 96 100
 61 146.1 95.3 176.9
 68 0.0 1.1 2.1#

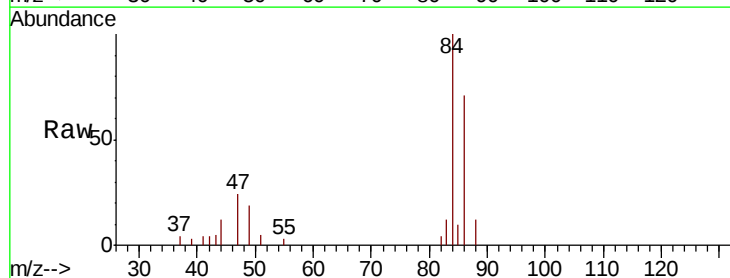


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

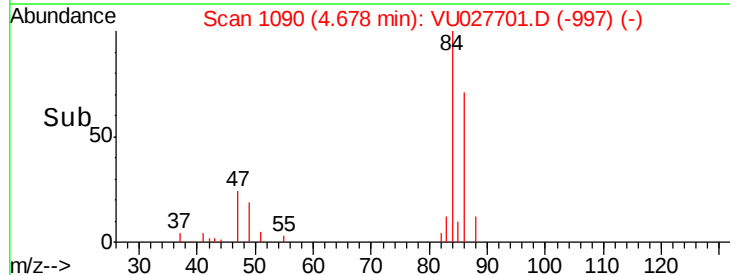
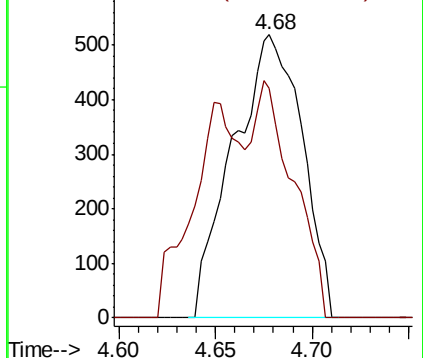


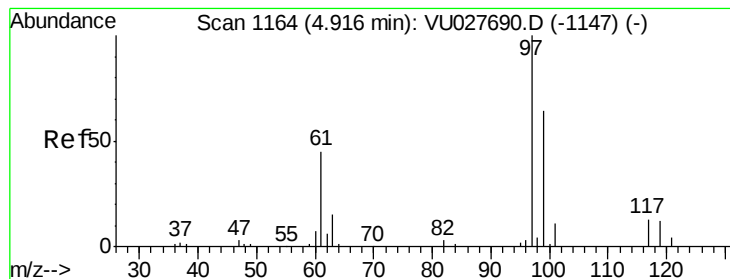
#25
 Chloroform
 Concen: 0.123 ug/L
 RT: 4.68 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

Tgt Ion: 83 Resp: 1288
 Ion Ratio Lower Upper
 83 100
 85 81.3 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#29

1,1,1-Trichloroethane

Concen: 0.234 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Instrument :

MSVOA_U

ClientSampled :

C0JC4DL

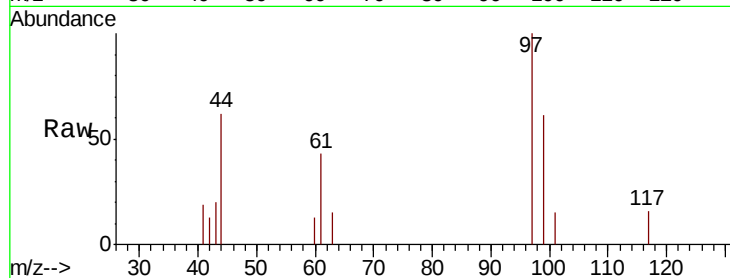
Tgt Ion: 97 Resp: 2000

Ion Ratio Lower Upper

97 100

99 55.8 51.4 77.2

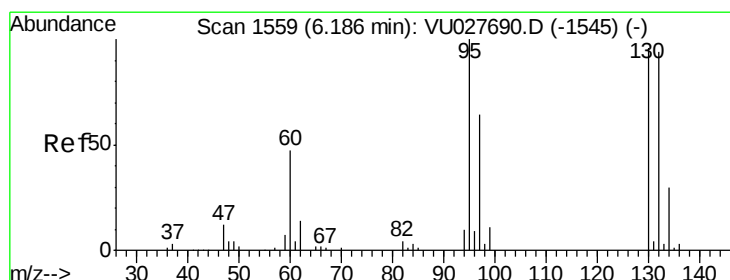
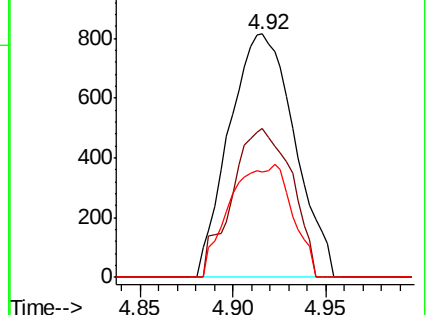
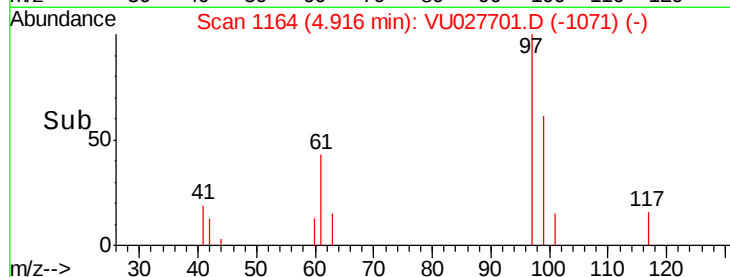
61 44.2 35.7 53.5



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



#34

Trichloroethene

Concen: 5.719 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Tgt Ion: 95 Resp: 33738

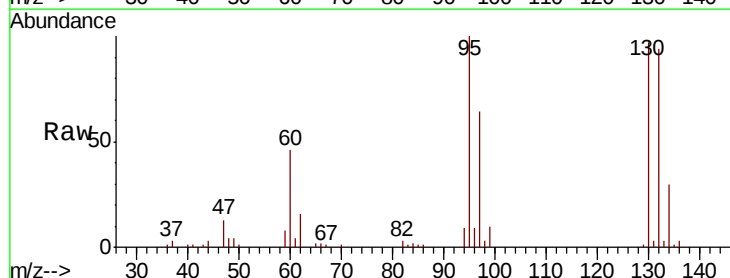
Ion Ratio Lower Upper

95 100

97 63.5 44.7 83.1

132 94.2 65.9 122.5

130 96.7 67.9 126.1

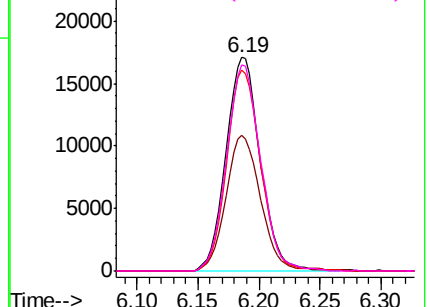
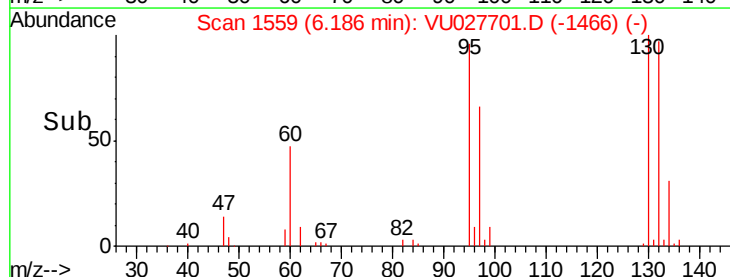


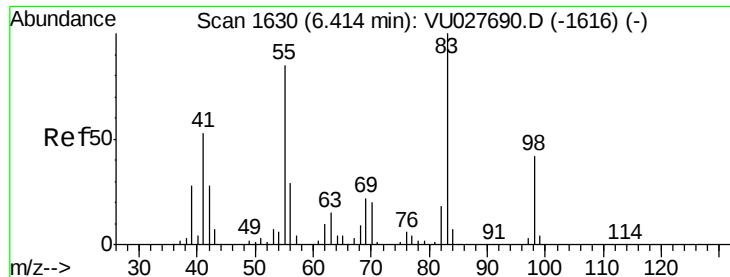
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

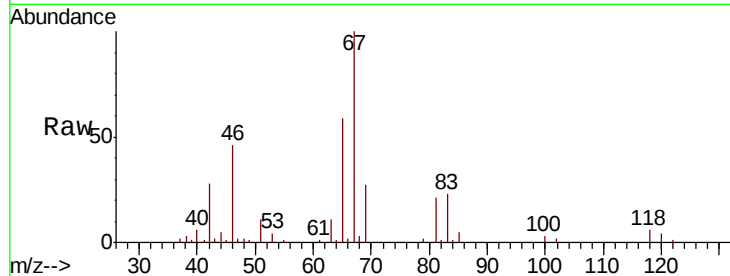




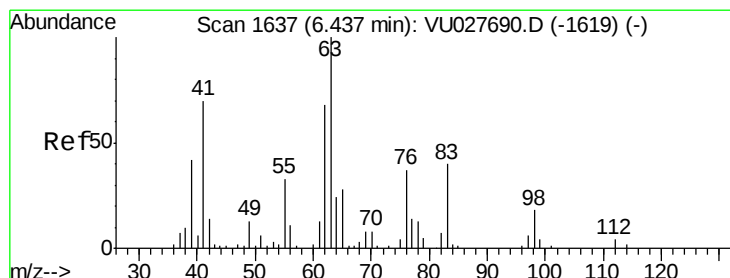
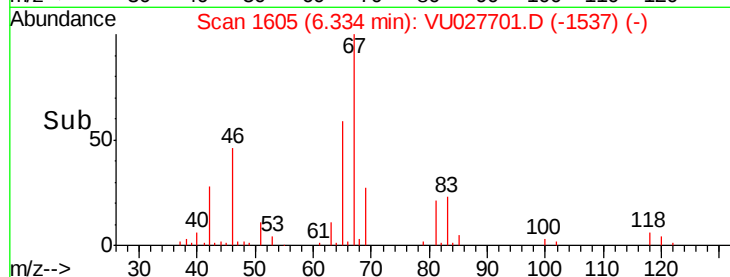
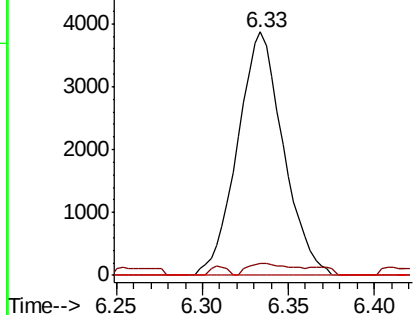
#35
Methylcyclohexane
Concen: 0.702 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU027701.D
Acq: 18 Oct 2018 16:03

Instrument :
MSVOA_U
ClientSampleId :
C0JC4DL

Tgt Ion: 83 Resp: 7135
Ion Ratio Lower Upper
83 100
55 4.9 69.0 103.4#
98 0.0 35.4 53.2#

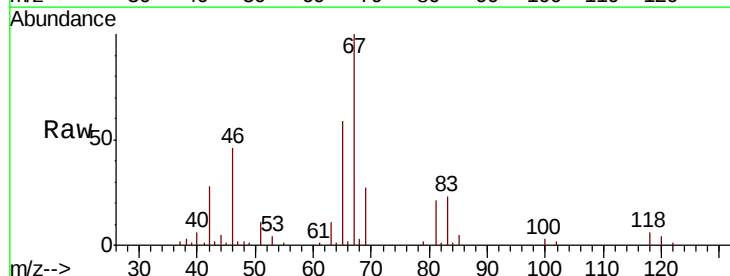


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

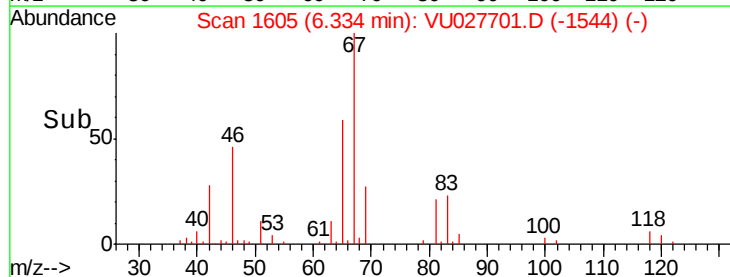
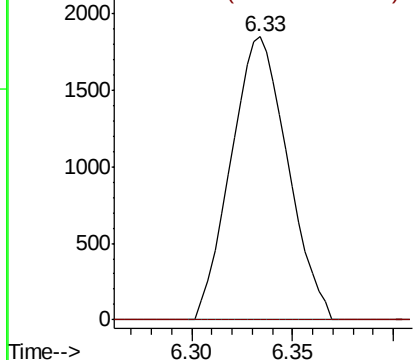


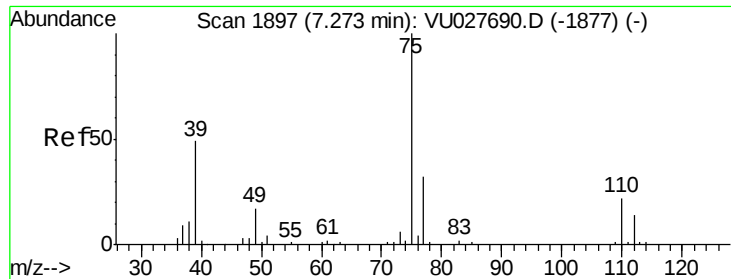
#37
1,2-Dichloropropane
Concen: 0.553 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.10 min
Lab File: VU027701.D
Acq: 18 Oct 2018 16:03

Tgt Ion: 63 Resp: 3618
Ion Ratio Lower Upper
63 100
112 0.0 2.8 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

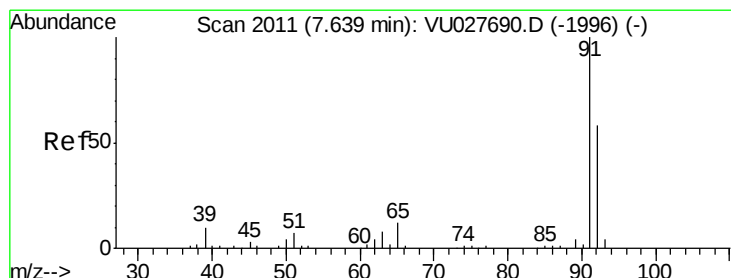
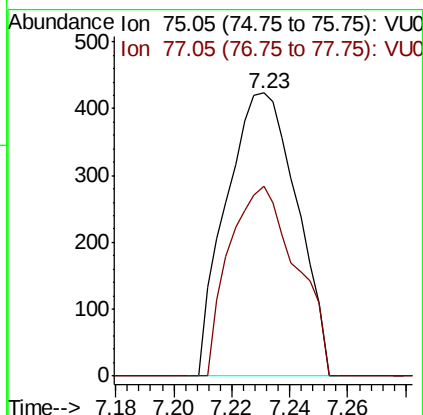
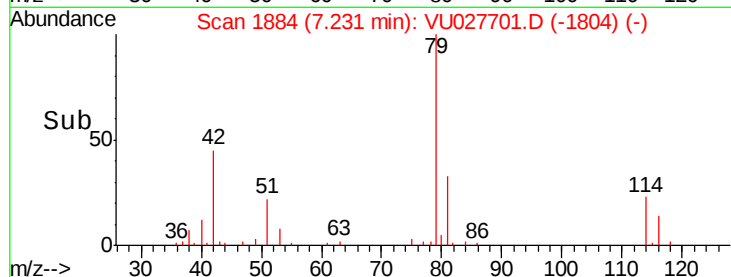
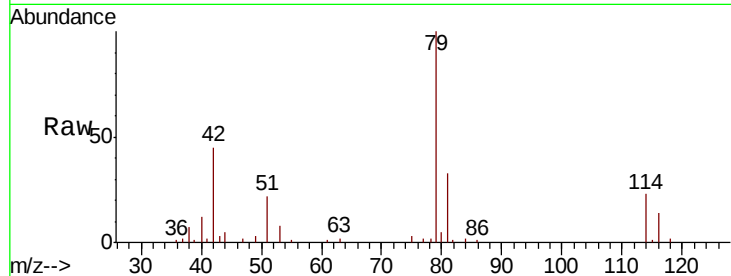




#39
 cis-1,3-Dichloropropene
 Concen: 0.075 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

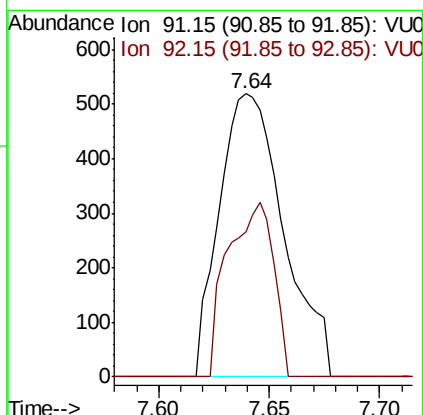
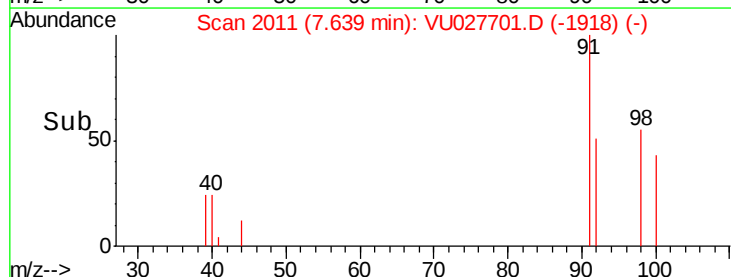
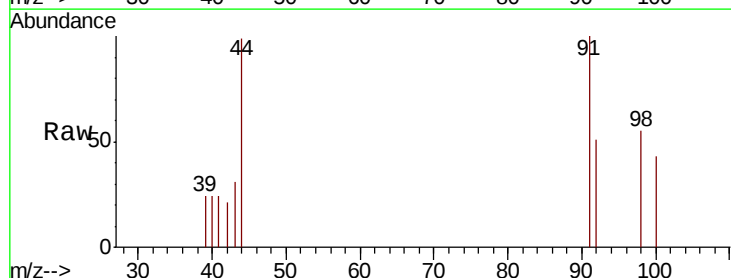
Instrument :
 MSVOA_U
 ClientSampleId :
 C0JC4DL

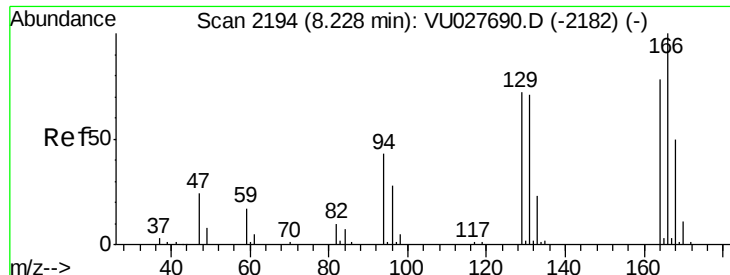
Tgt Ion: 75 Resp: 717
 Ion Ratio Lower Upper
 75 100
 77 66.9 22.2 41.2#



#42
 Toluene
 Concen: 0.043 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. -0.00 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

Tgt Ion: 91 Resp: 1056
 Ion Ratio Lower Upper
 91 100
 92 51.1 41.1 76.3





#47

Tetrachloroethene

Concen: 9.329 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Instrument :

MSVOA_U

ClientSampleId :

C0JC4DL

Tgt Ion:164 Resp: 43937

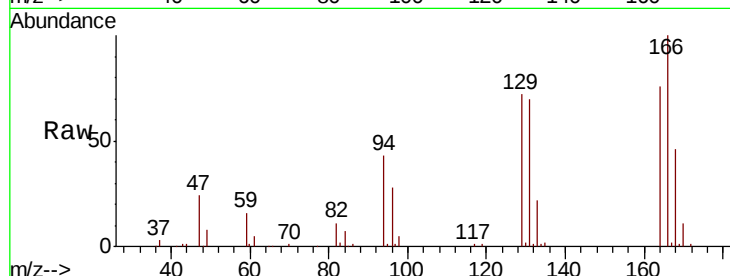
Ion Ratio Lower Upper

164 100

129 94.5 67.3 124.9

131 92.4 64.8 120.3

166 131.7 91.8 170.4

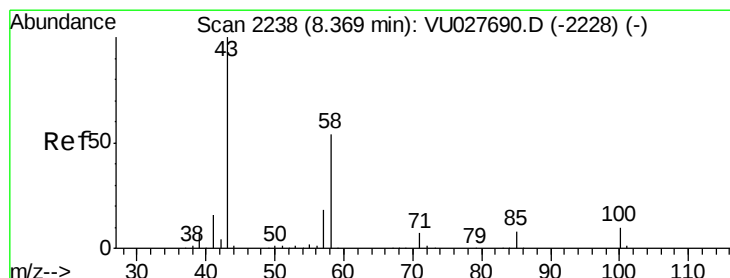
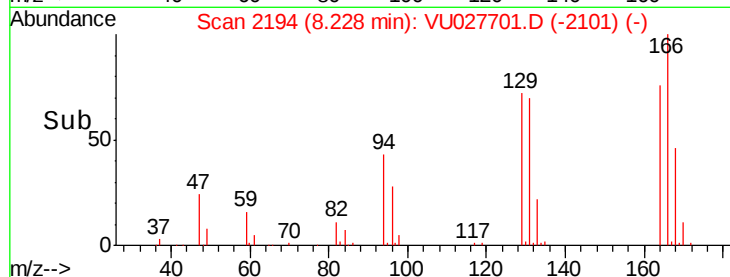
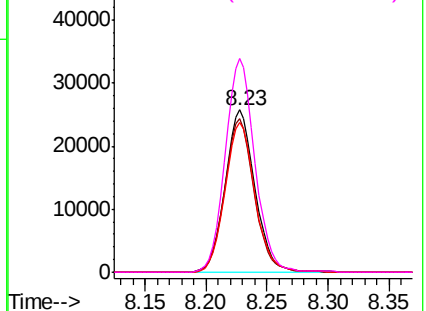


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.434 ug/L

RT: 8.31 min Scan# 2221

Delta R.T. -0.05 min

Lab File: VU027701.D

Acq: 18 Oct 2018 16:03

Tgt Ion: 43 Resp: 7703

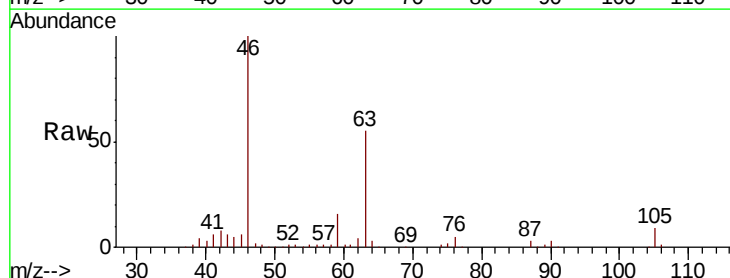
Ion Ratio Lower Upper

43 100

58 22.5 42.7 64.1#

57 21.1 14.5 21.7

100 0.0 8.1 12.1#

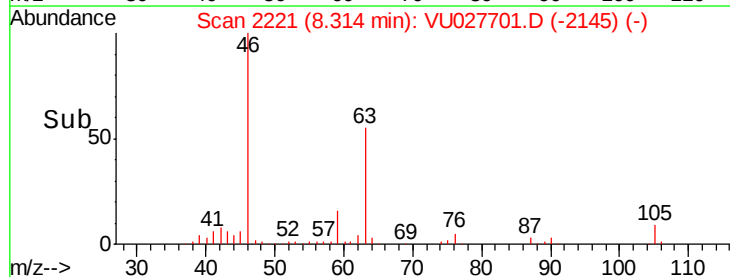
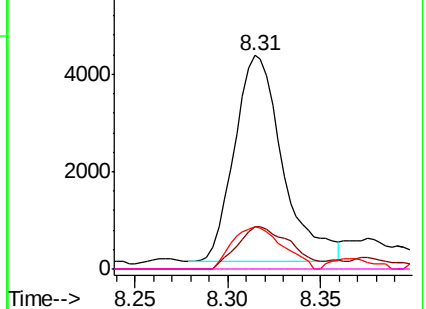


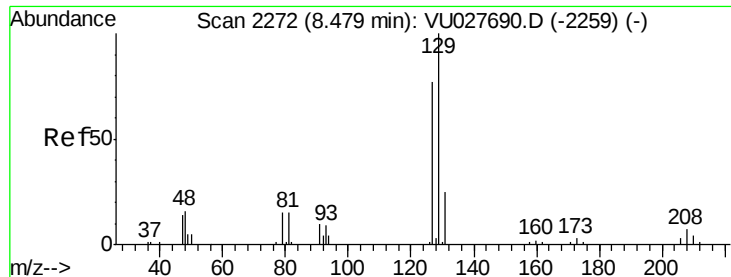
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0

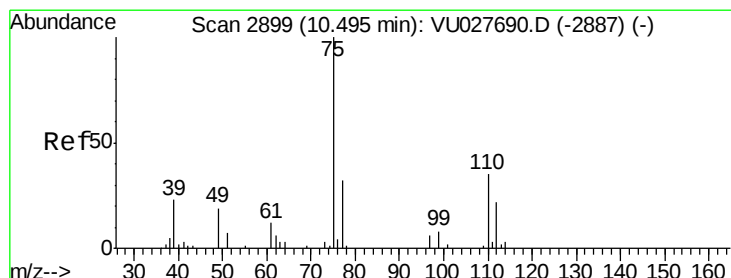
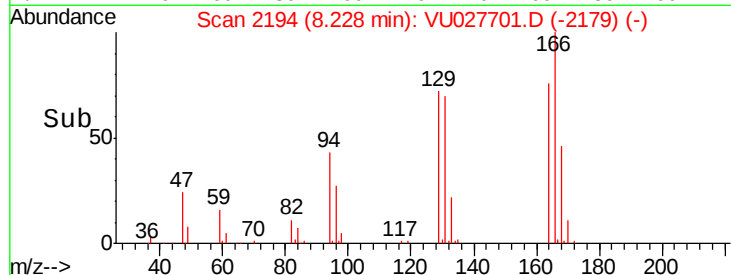
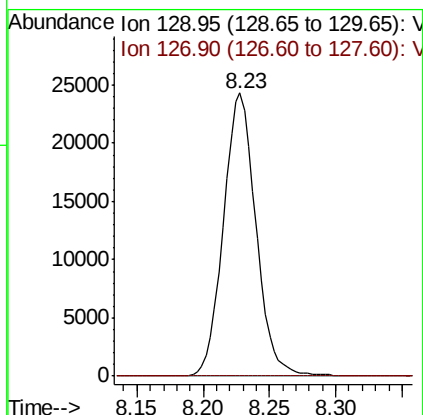
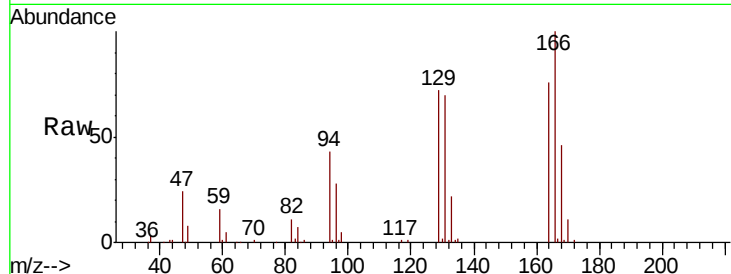




#49
 Dibromochloromethane
 Concen: 7.901 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.25 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JC4DL

Tgt Ion: 129 Resp: 41315
 Ion Ratio Lower Upper
 129 100
 127 0.0 54.1 100.5#



#59
 1,2,3-Trichloropropane
 Concen: 1.133 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU027701.D
 Acq: 18 Oct 2018 16:03

Tgt Ion: 75 Resp: 4263
 Ion Ratio Lower Upper
 75 100
 77 39.1 26.9 40.3

