

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025336.D
 Acq On : 12 Jul 2018 13:30
 Operator : MD/SY
 Sample : J3762-07 LOD/MDL 0.5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Manual Integrations
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MMDadoda
 7/13/2018 11:44:10 AM

Quant Time: Jul 13 03:55:22 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	163639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	243970	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	217649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	108425	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	115884	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
35) Dibromofluoromethane	4.89	113	88576	43.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.08%	
50) Toluene-d8	7.57	98	286900	40.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.42%	
62) 4-Bromofluorobenzene	10.31	95	108205	38.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.28%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.70	64	978	1.112	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.29	101	1143	0.631	ug/l	95
12) 1,1-Dichloroethene	2.29	96	914	0.551	ug/l	82
14) Allyl chloride	2.59	41	1884	0.626	ug/l #	88
18) Methyl Acetate	2.63	43	1551	0.596	ug/l	93
21) trans-1,2-Dichloroethene	2.99	96	966	0.510	ug/l	95
26) 2,2-Dichloropropane	4.24	77	1748	0.525	ug/l #	70
41) Methacrylonitrile	4.56	41	1012m	0.603	ug/l	
42) 1,2-Dichloroethane	5.41	62	1778	0.572	ug/l	80
49) 1,4-Dioxane	6.63	88	619	10.653	ug/l #	50
71) Bromoform	9.96	173	777	4.971	ug/l #	81
74) N-amyl acetate	10.02	43	2418	1.963	ug/l #	79
76) 1,2,3-Trichloropropane	10.50	75	1473m	1.549	ug/l	
81) trans-1,4-Dichloro-2-buten	10.52	75	465m	0.538	ug/l	
92) 1,2-Dibromo-3-Chloropropan	12.66	75	348	0.529	ug/l	58
93) 1,2,4-Trichlorobenzene	13.52	180	886	3.599	ug/l #	52
94) Hexachlorobutadiene	13.70	225	623	0.445	ug/l	83
95) Naphthalene	13.76	128	2661	2.731	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.99	180	1070	2.912	ug/l #	18

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

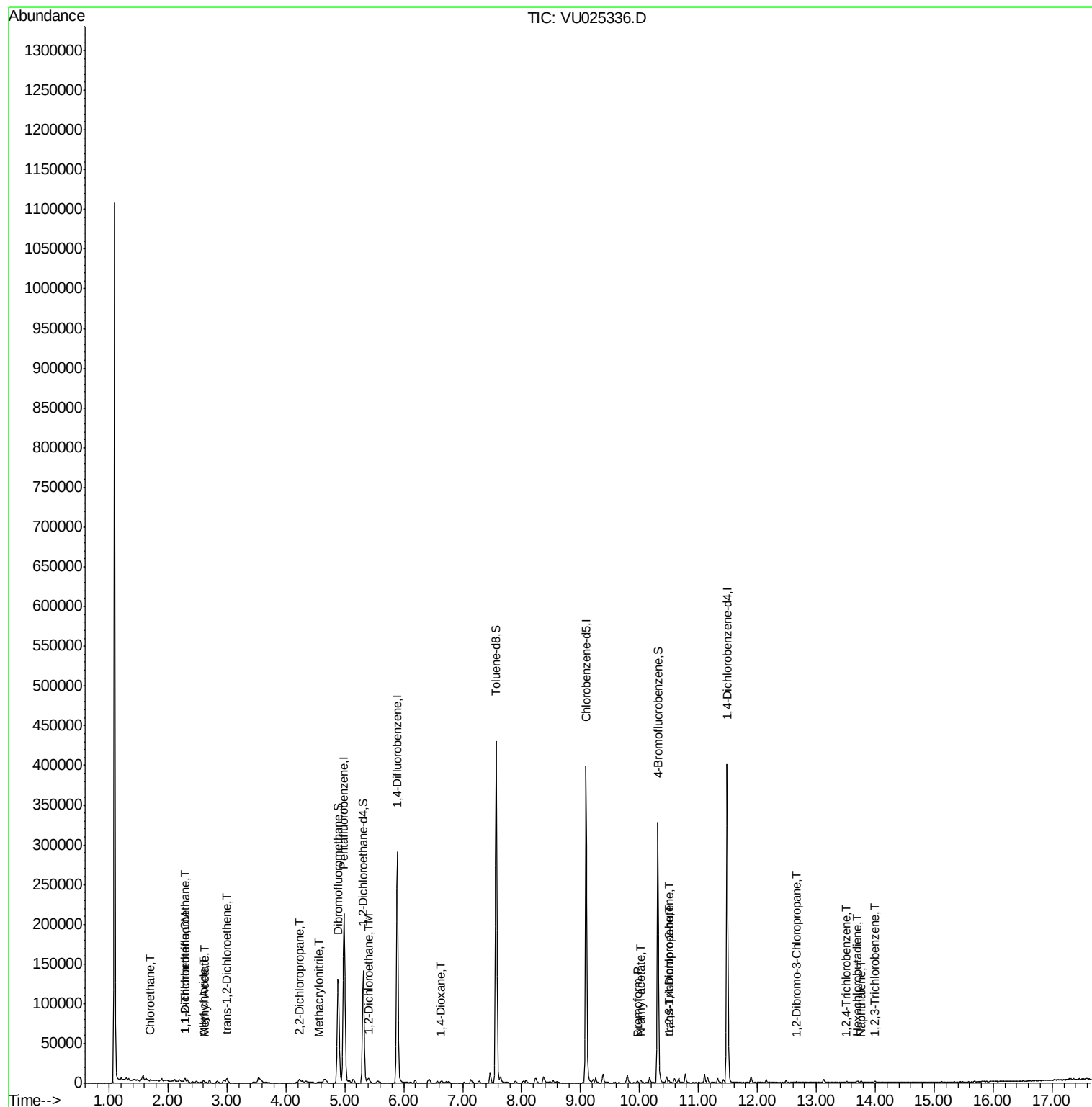
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071218\
Data File : VU025336.D
Acq On : 12 Jul 2018 13:30
Operator : MD/SY
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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

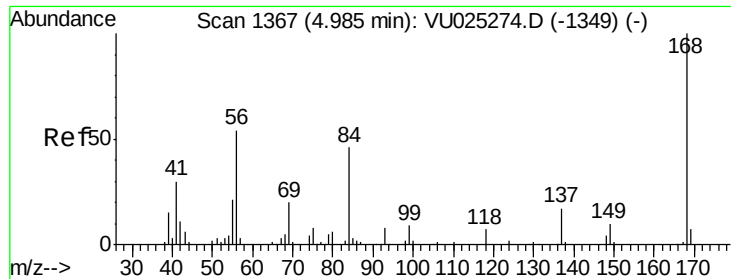
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Manual Integrations
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7/13/2018 11:44:10 AM

Quant Time: Jul 13 03:55:22 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:168 Resp: 163639

Ion Ratio Lower Upper

168 100

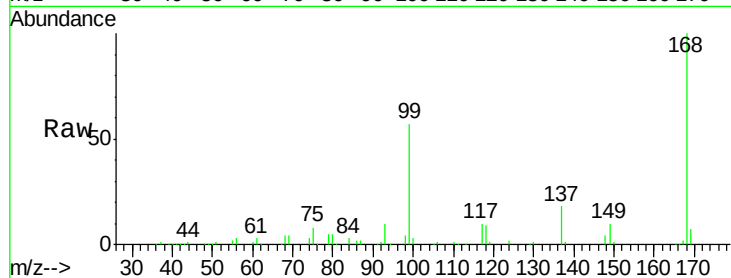
99 56.4 42.8 64.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

60000

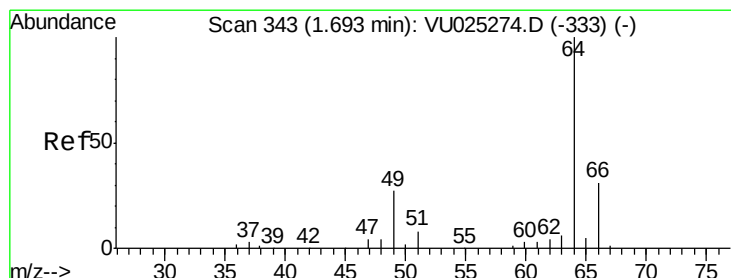
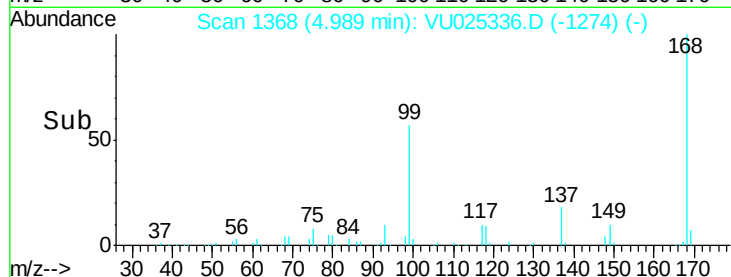
40000

20000

0

4.90 5.00 5.10

Time-->



#6

Chloroethane

Concen: 1.112 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025336.D

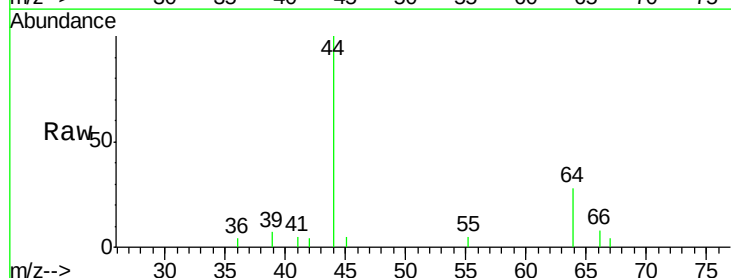
Acq: 12 Jul 2018 13:30

Tgt Ion: 64 Resp: 978

Ion Ratio Lower Upper

64 100

66 27.7 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU025274.D (-333) (-)

Ion 65.90 (65.60 to 66.60): VU025274.D (-333) (-)

1.70

600

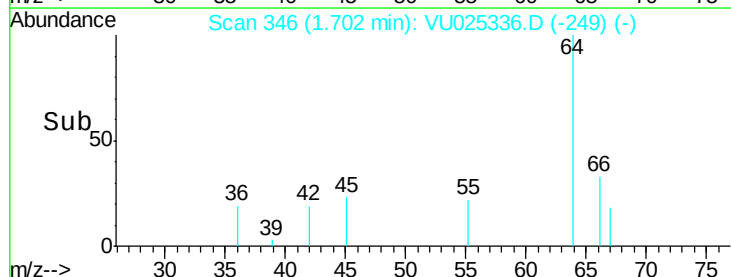
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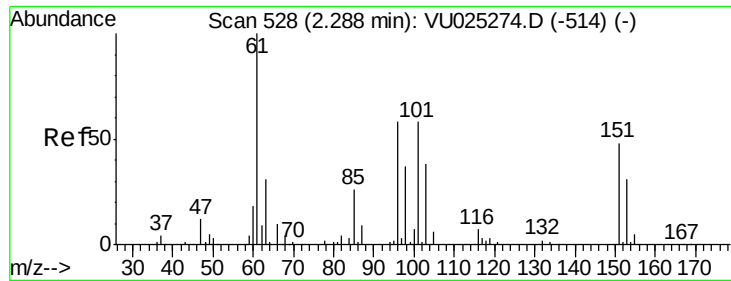
200

0

1.66 1.68 1.70 1.72 1.74

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.631 ug/l

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

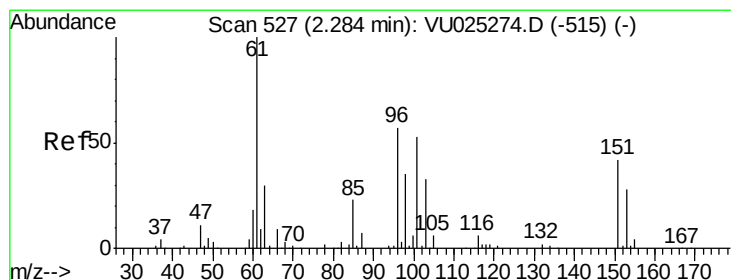
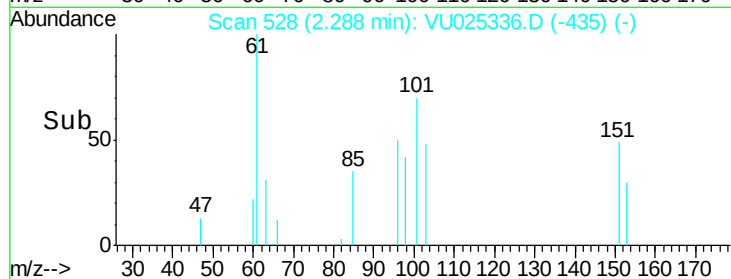
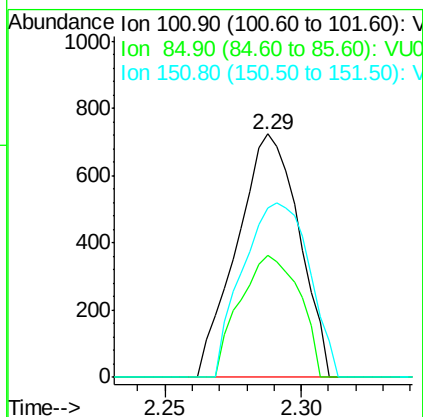
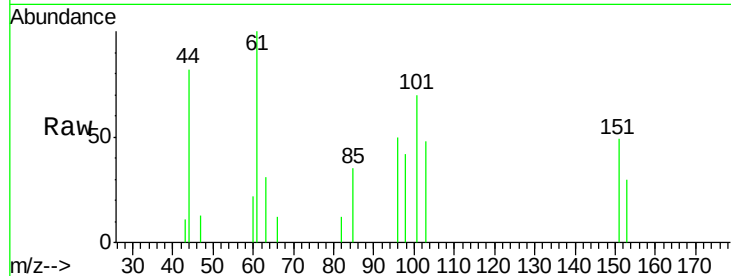
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	101	Resp:	1143
Ion Ratio	Lower	Upper	
101	100		
85	48.5	36.0	54.0
151	77.2	65.6	98.4

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#12

1,1-Dichloroethene

Concen: 0.551 ug/l

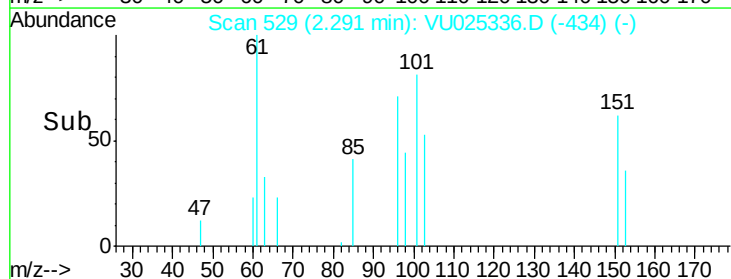
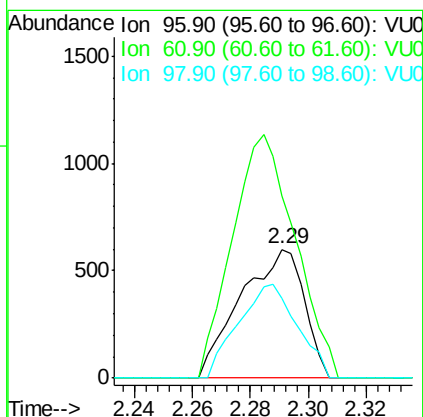
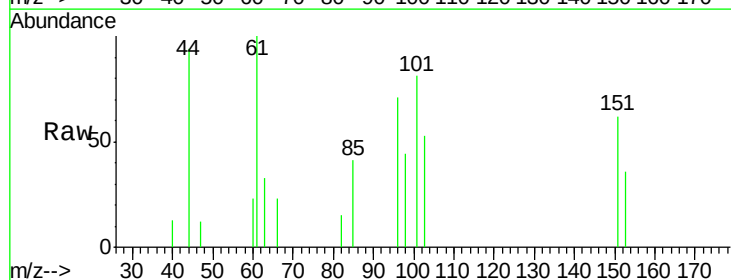
RT: 2.29 min Scan# 529

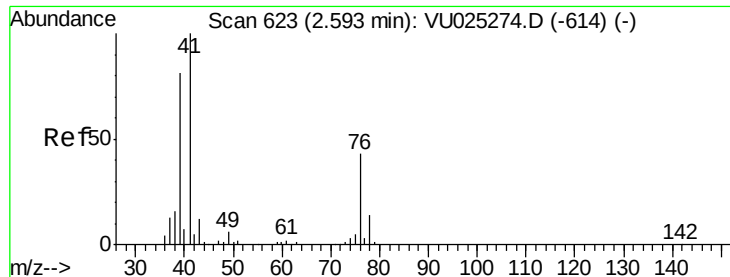
Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion:	96	Resp:	914
Ion Ratio	Lower	Upper	
96	100		
61	141.2	140.2	210.4
98	61.9	49.3	73.9





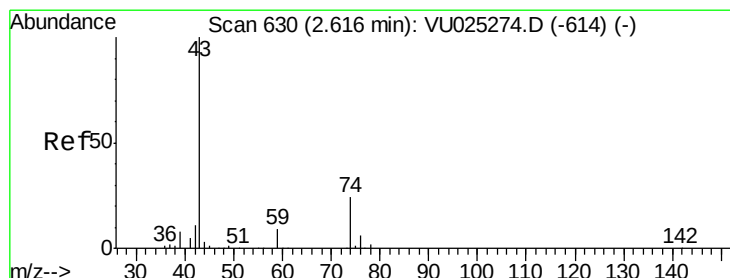
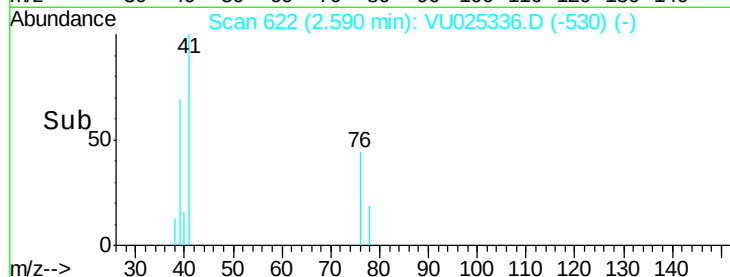
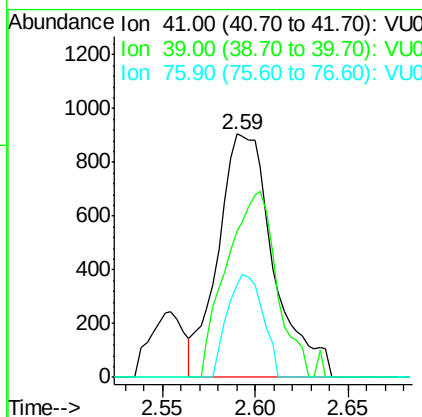
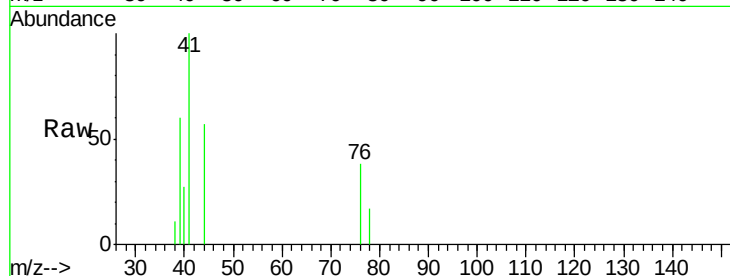
#14
 Allvl chloride
 Concen: 0.626 ug/l
 RT: 2.59 min Scan# 622
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.4	60.6	91.0
76	27.0	30.5	45.7#

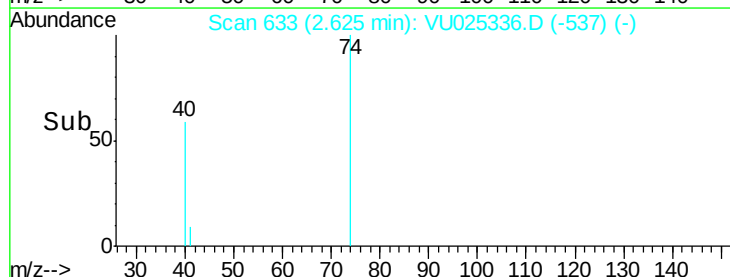
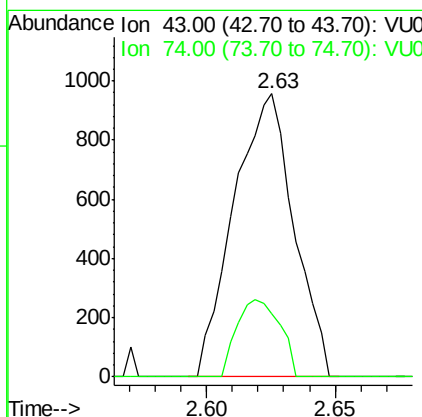
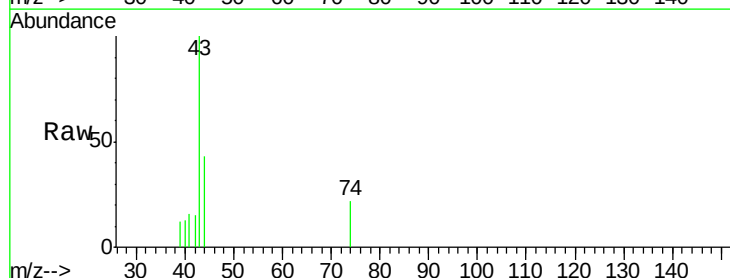
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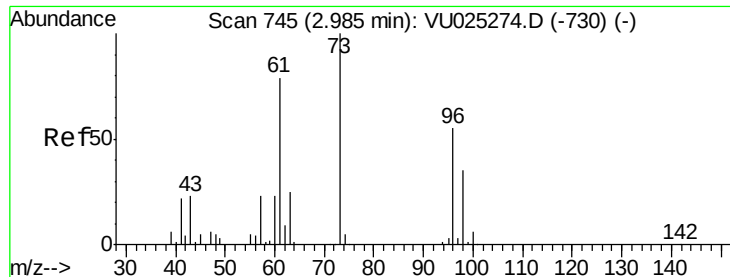
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#18
 Methyl Acetate
 Concen: 0.596 ug/l
 RT: 2.63 min Scan# 633
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.6	18.5	27.7





#21

trans-1,2-Dichloroethene

Concen: 0.510 ug/l

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

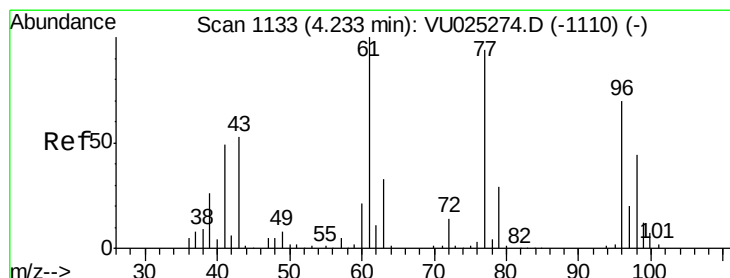
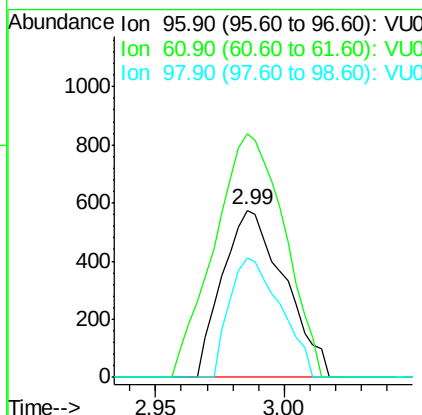
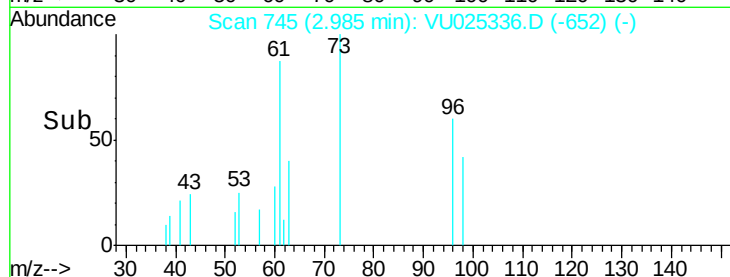
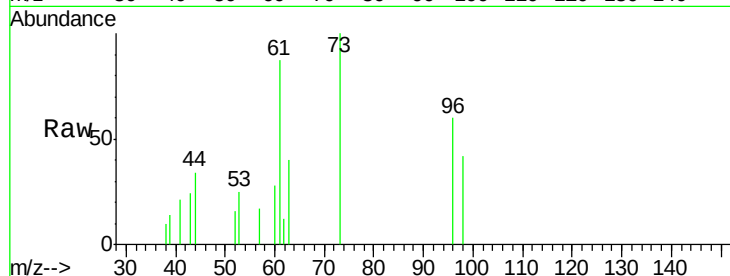
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	96	Resp:	966
Ion	Ratio	Lower	Upper
96	100		
61	145.7	114.5	171.7
98	71.3	50.5	75.7

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#26

2,2-Dichloropropane

Concen: 0.525 ug/l

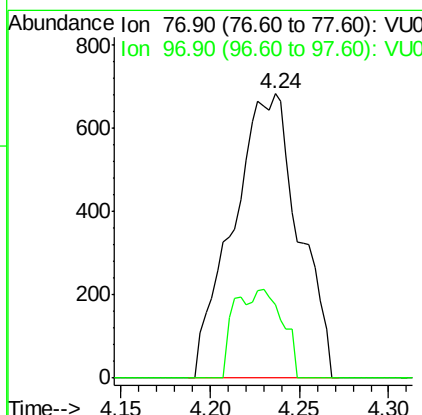
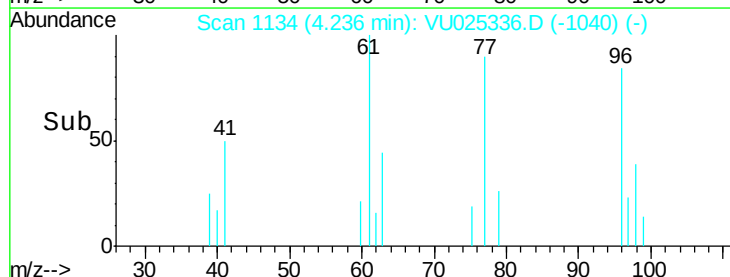
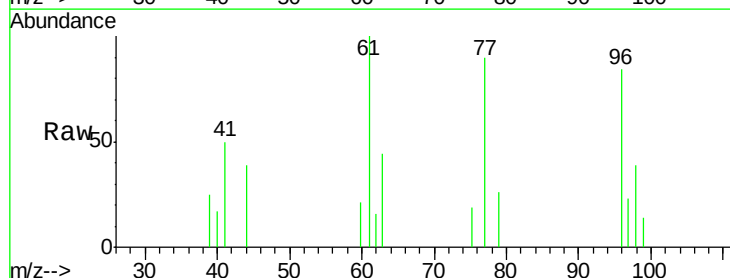
RT: 4.24 min Scan# 1134

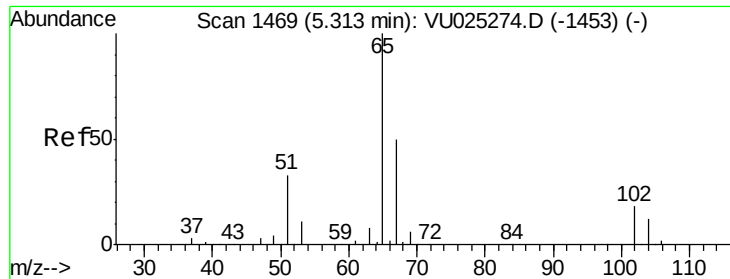
Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion:	77	Resp:	1748
Ion	Ratio	Lower	Upper
77	100		
97	7.7	11.2	33.5#





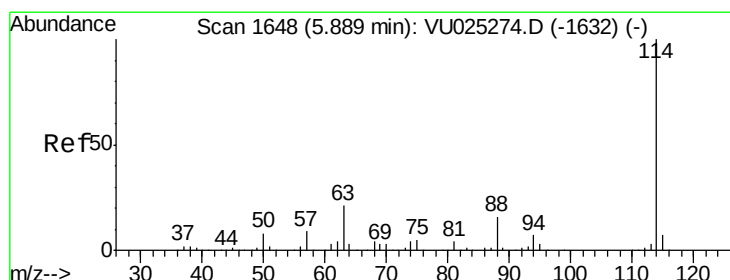
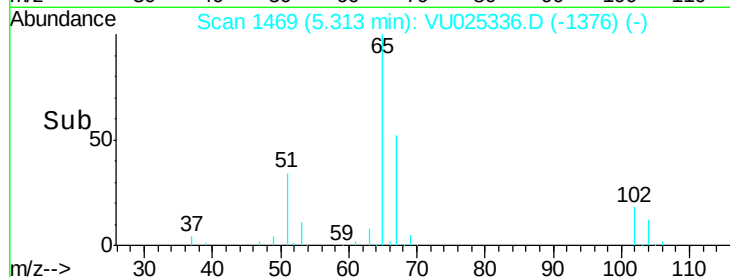
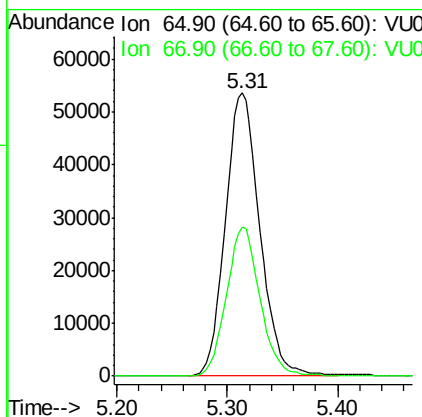
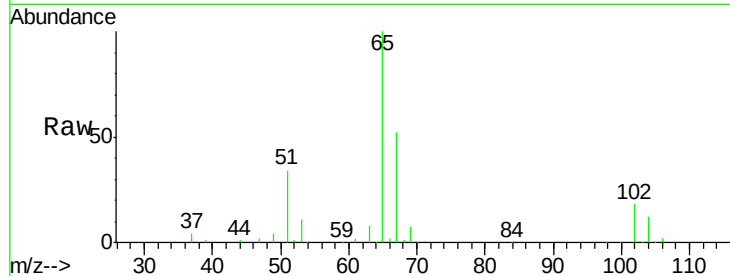
#33
 1,2-Dichloroethane-d4
 Concen: 45.582 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
65	100	115884		
67	51.3	0.0	103.6	

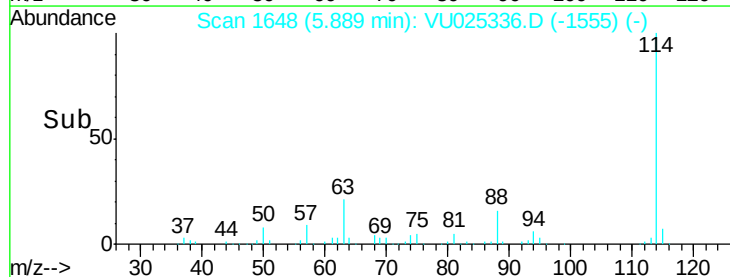
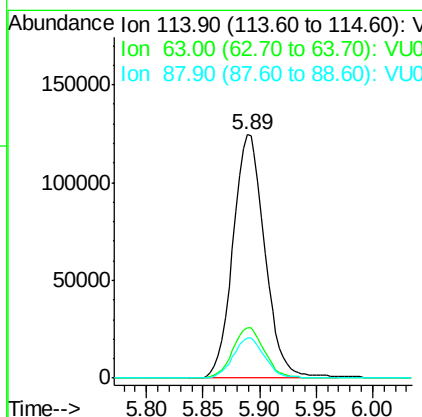
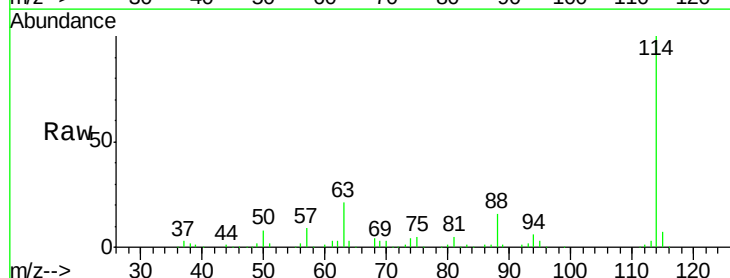
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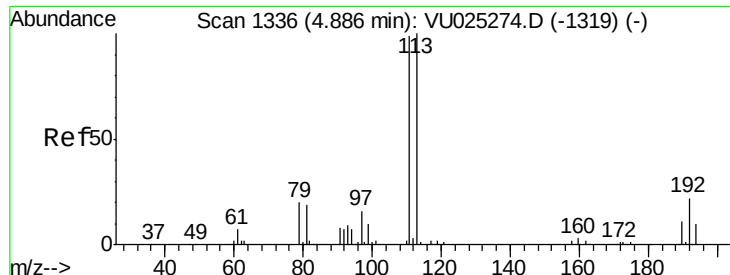
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	243970		
63	20.9	0.0	41.6	
88	16.4	0.0	32.4	





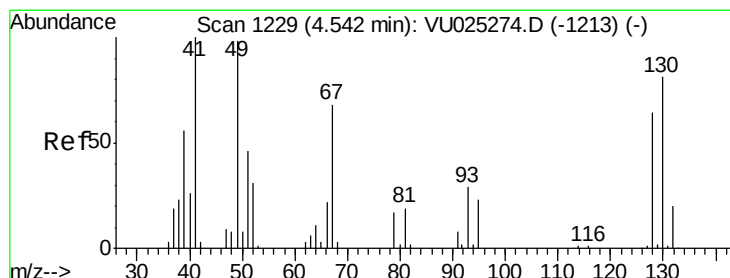
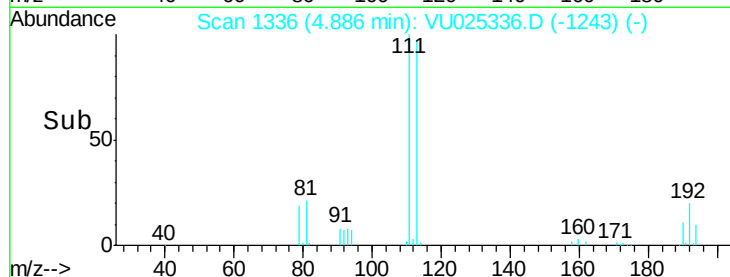
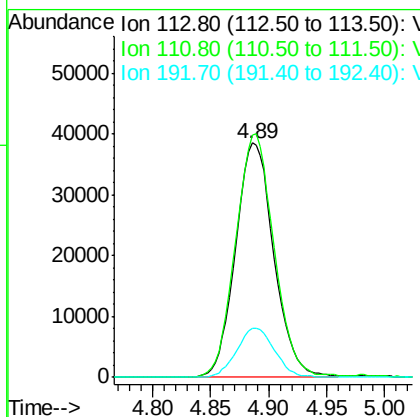
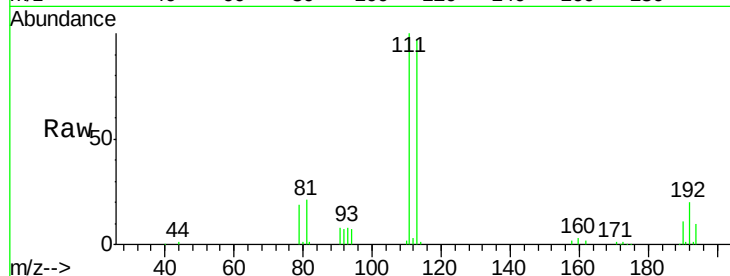
#35
 Dibromofluoromethane
 Concen: 43.038 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.7	122.5
192	20.8	17.1	25.7

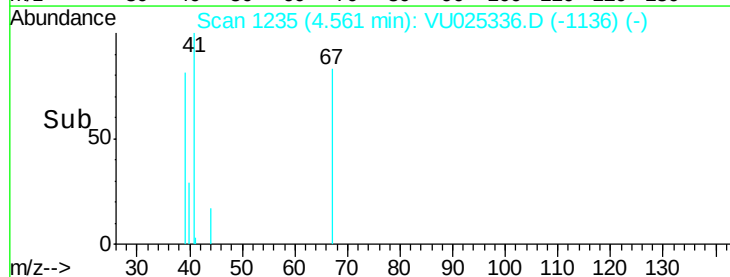
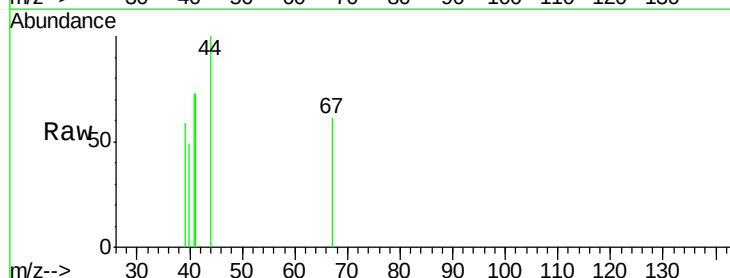
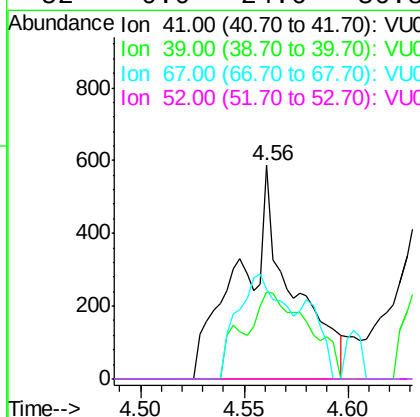
Manual Integrations
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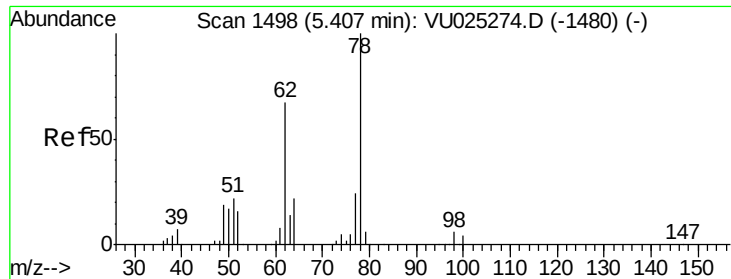
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 7/13/2018 11:44:10 AM



#41
 Methacrylonitrile
 Concen: 0.603 ug/l m
 RT: 4.56 min Scan# 1235
 Delta R.T. 0.02 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion	Ratio	Lower	Upper
41	100		
39	9.9	44.4	66.6#
67	0.0	56.0	84.0#
52	0.0	24.6	36.8#





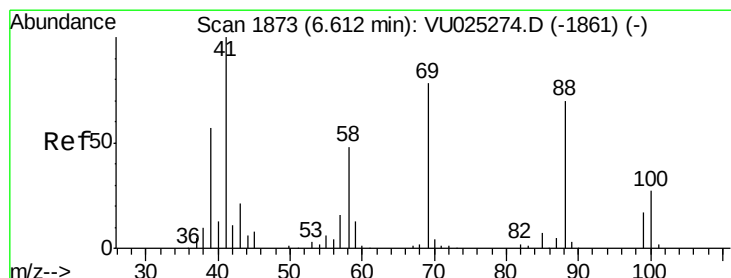
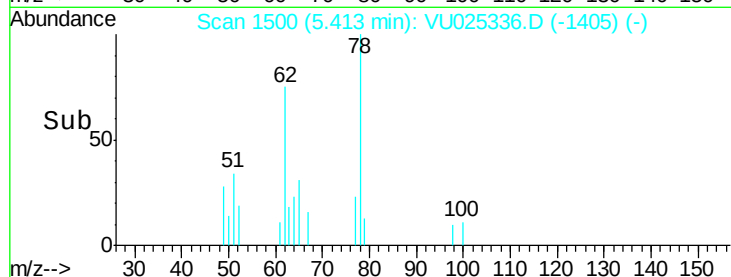
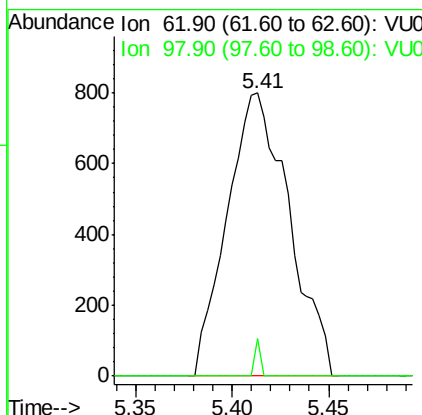
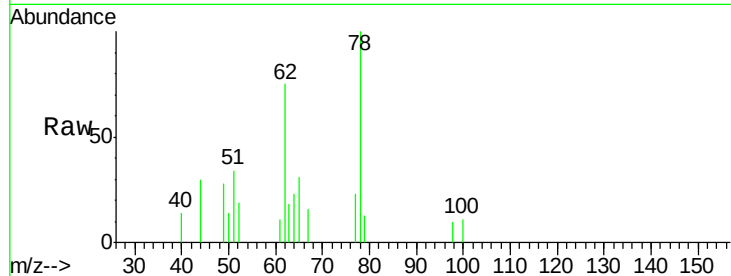
#42
 1,2-Dichloroethane
 Concen: 0.572 ug/l
 RT: 5.41 min Scan# 1500
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
62	100		
98	1.2	0.0	16.4

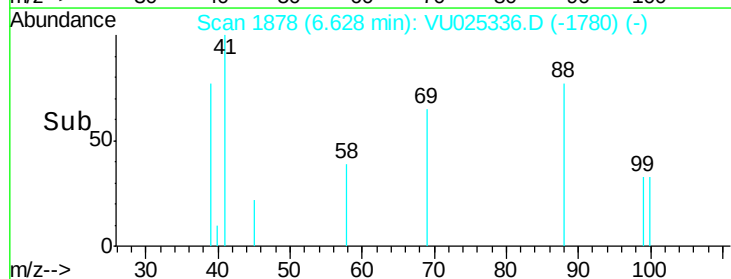
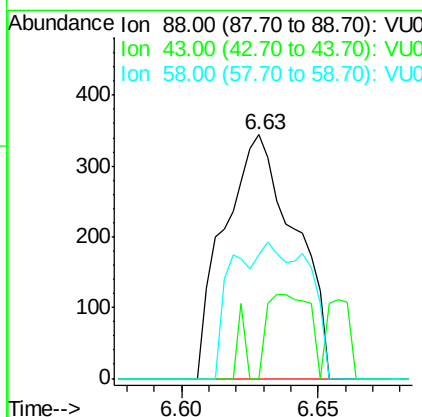
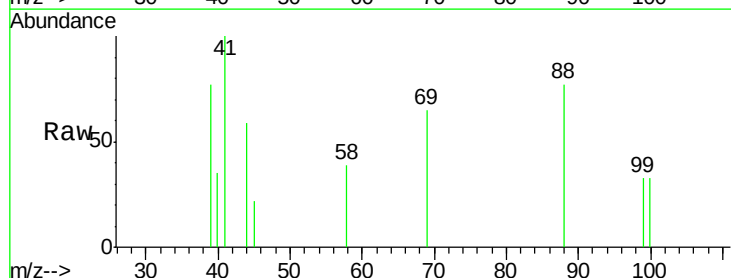
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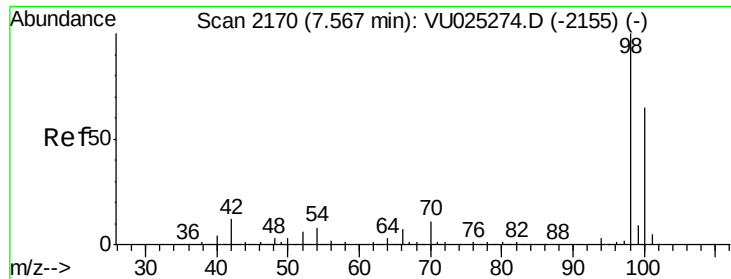
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 7/13/2018 11:44:10 AM



#49
 1,4-Dioxane
 Concen: 10.653 ug/l
 RT: 6.63 min Scan# 1878
 Delta R.T. 0.02 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion	Ratio	Lower	Upper
88	100		
43	20.8	27.3	40.9#
58	19.9	57.6	86.4#





#50

Toluene-d8

Concen: 40.708 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 98 Resp: 286900

Ion Ratio Lower Upper

98 100

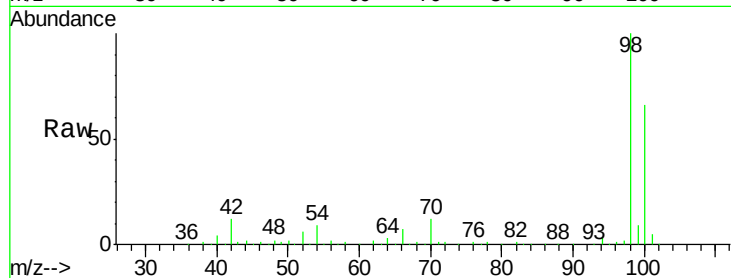
100 65.4 51.1 76.7

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Abundance Ion 98.00 (97.70 to 98.70): VU025274.D (-2155) (-)

Ion 100.00 (99.70 to 100.70): VU025274.D (-2155) (-)

7.57

150000

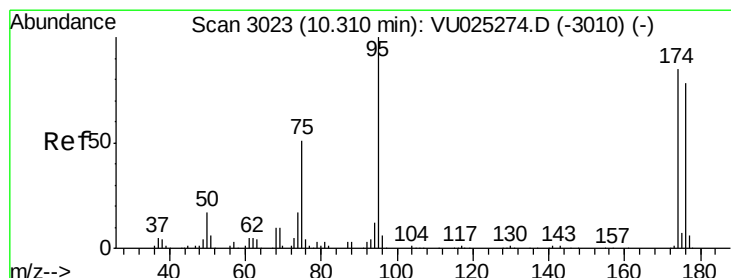
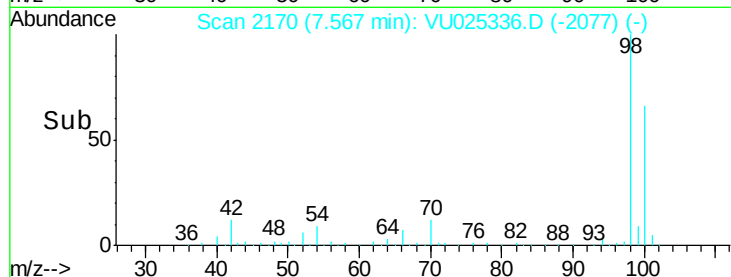
100000

50000

0

7.50 7.55 7.60 7.65

Time-->



#62

4-Bromofluorobenzene

Concen: 38.135 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

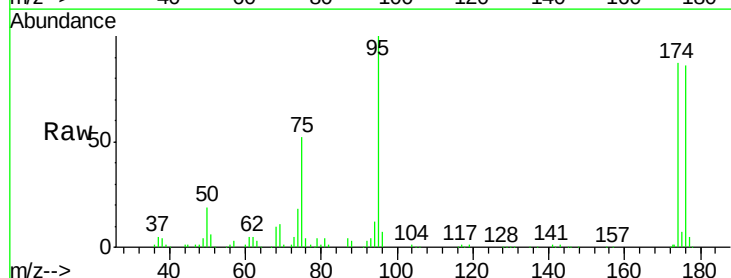
Tgt Ion: 95 Resp: 108205

Ion Ratio Lower Upper

95 100

174 85.7 0.0 172.2

176 83.7 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025274.D (-3010) (-)

Ion 173.80 (173.50 to 174.50): VU025274.D (-3010) (-)

Ion 175.80 (175.50 to 176.50): VU025274.D (-3010) (-)

10.31

80000

60000

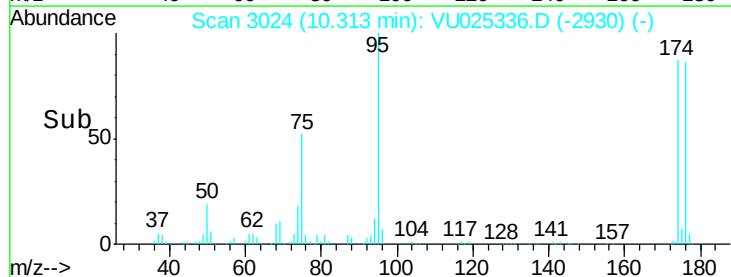
40000

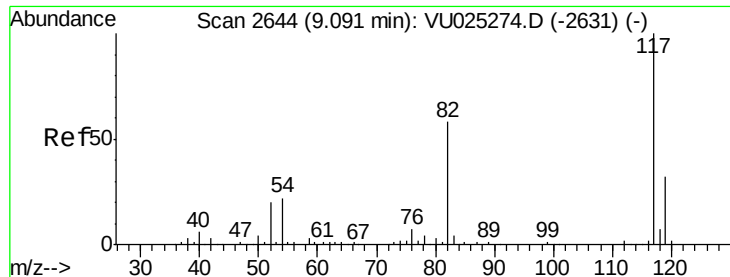
20000

0

10.30 10.35

Time-->





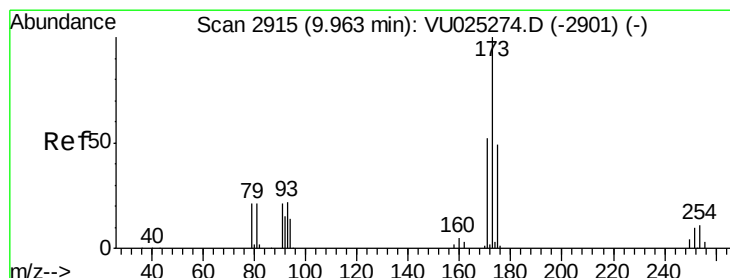
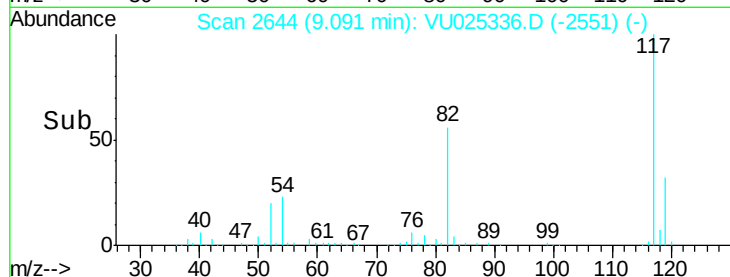
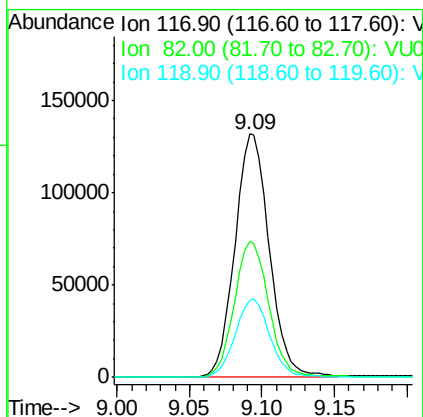
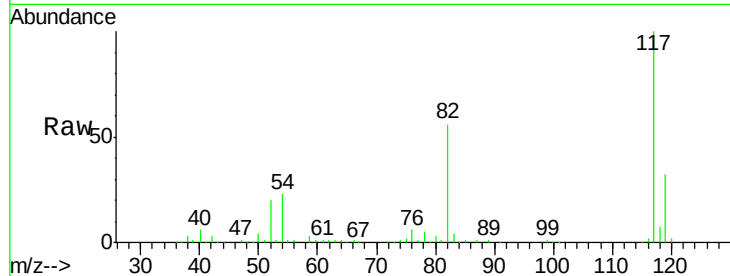
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
117	100	217649		
82	56.1	46.0	69.0	
119	31.7	26.0	39.0	

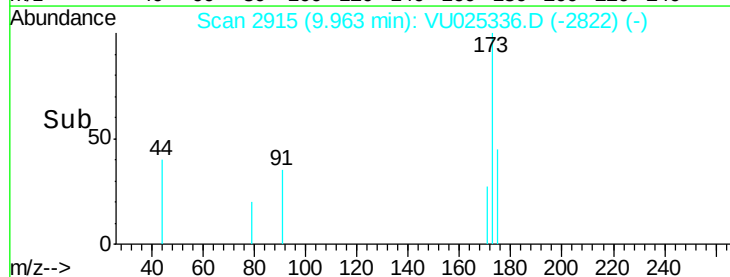
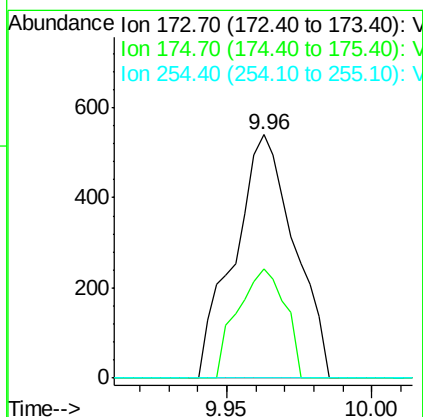
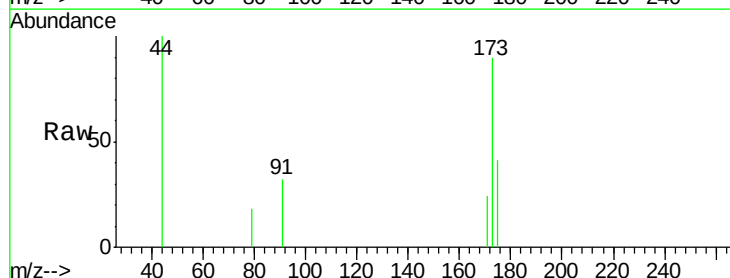
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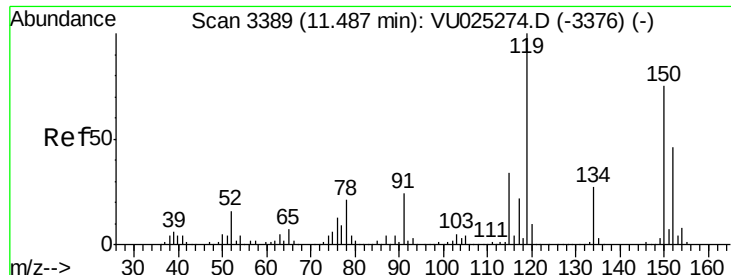
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#71
Bromoform
Concen: 4.971 ug/l
RT: 9.96 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	777		
175	35.4	24.0	72.0	
254	0.0	0.0	0.0	





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

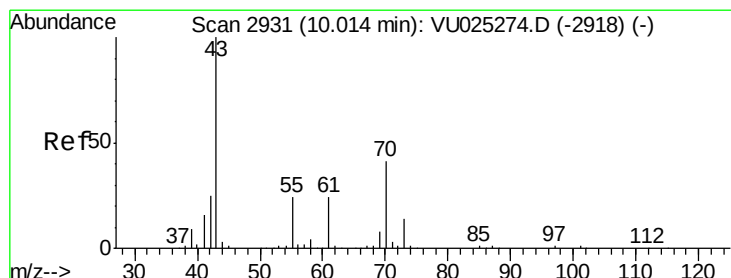
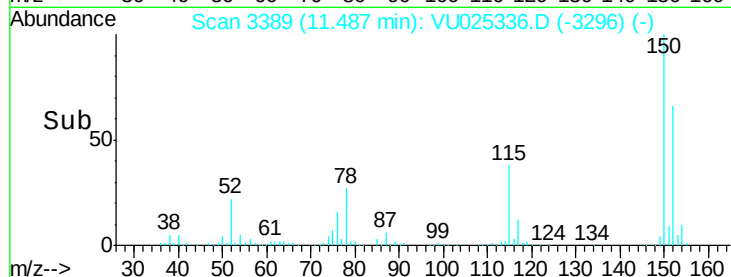
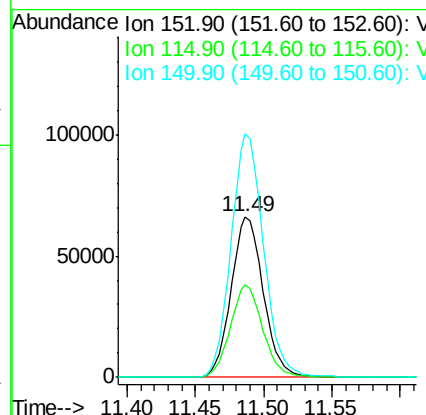
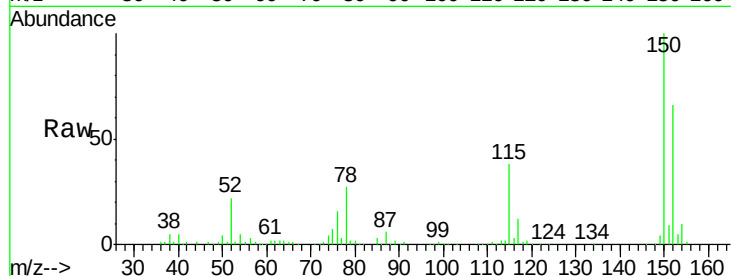
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	152	Resp:	108425
Ion Ratio	Lower	Upper	
152	100		
115	57.5	40.1	120.3
150	153.9	0.0	351.4

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#74

N-ethyl acetate

Concen: 1.963 ug/l

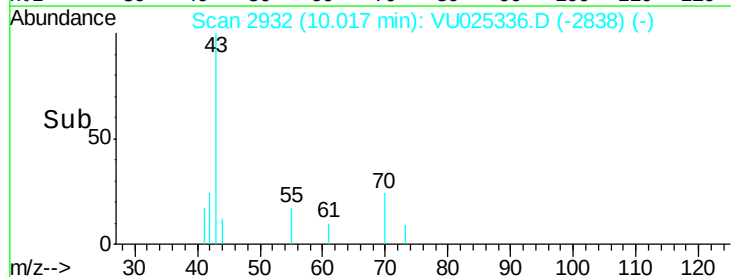
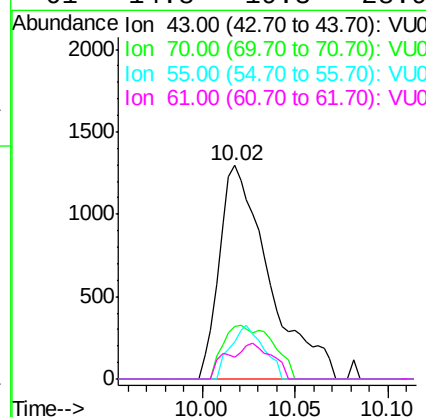
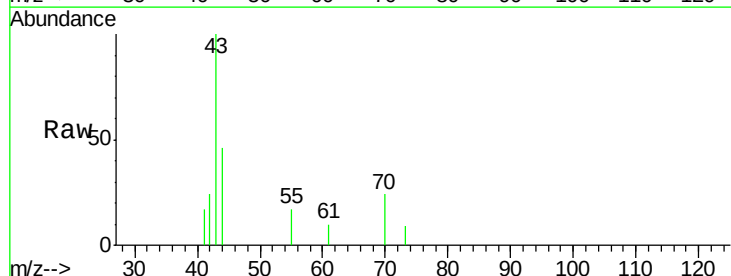
RT: 10.02 min Scan# 2932

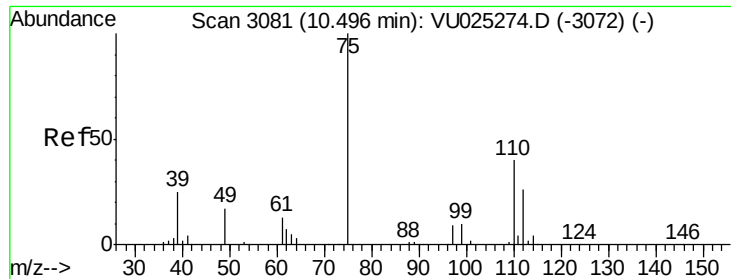
Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion:	43	Resp:	2418
Ion Ratio	Lower	Upper	
43	100		
70	24.9	33.4	50.2#
55	16.8	19.0	28.6#
61	14.8	19.3	28.9#





#76

1,2,3-Trichloropropane

Concen: 1.549 ug/l m

RT: 10.50 min Scan# 3082

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 75 Resp: 1473

Ion Ratio Lower Upper

75 100

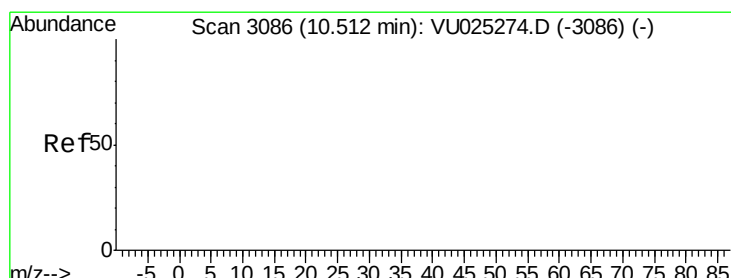
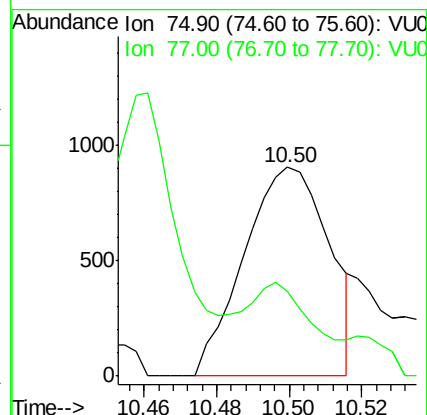
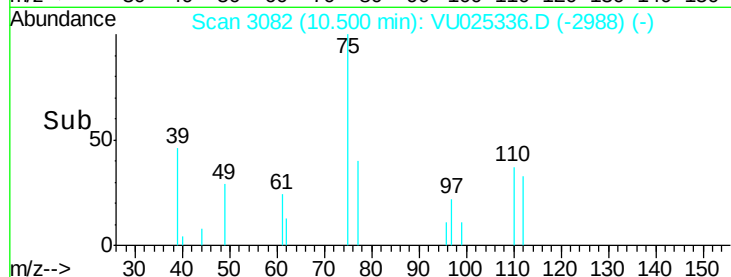
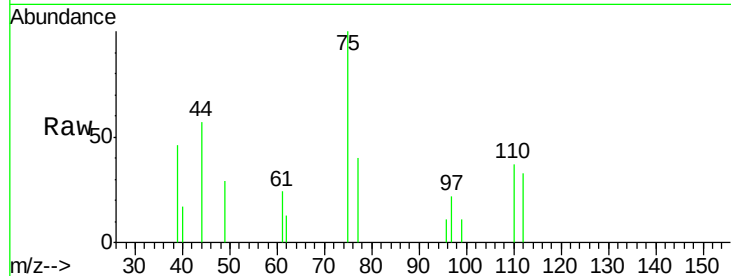
77 19.3 20.4 61.3#

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#81

trans-1,4-Dichloro-2-butene

Concen: 0.538 ug/l m

RT: 10.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

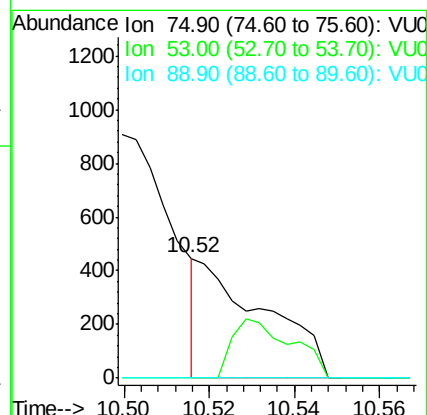
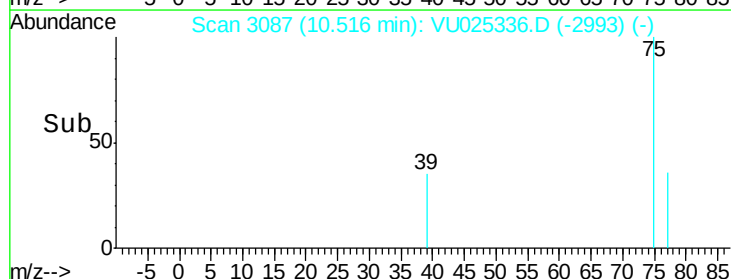
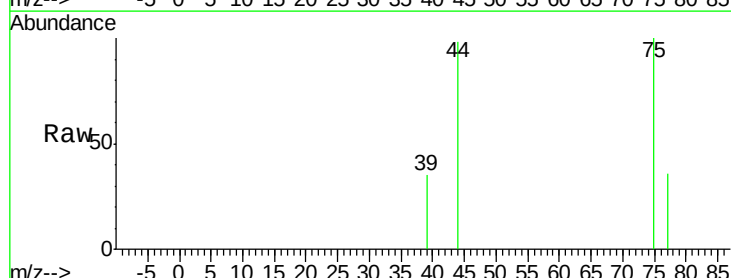
Tgt Ion: 75 Resp: 465

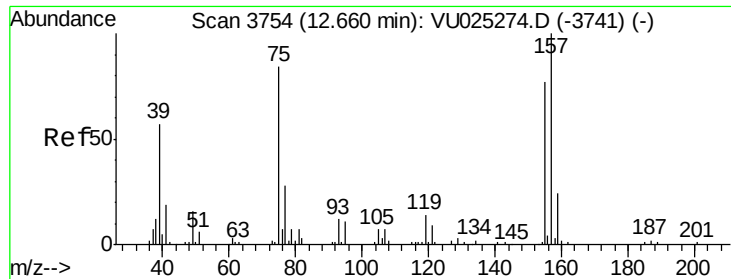
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.529 ug/l

RT: 12.66 min Scan# 3755

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

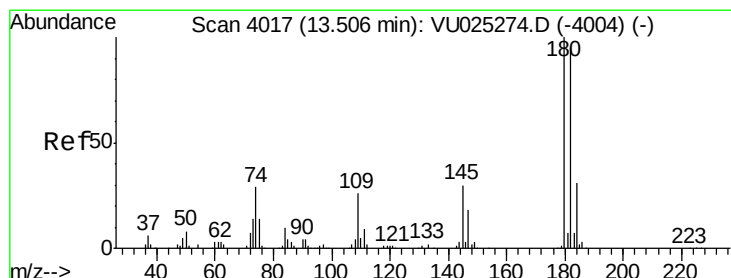
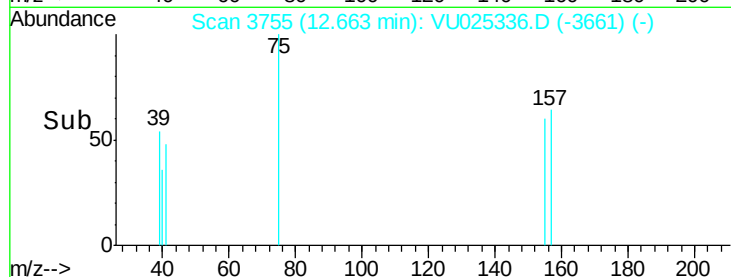
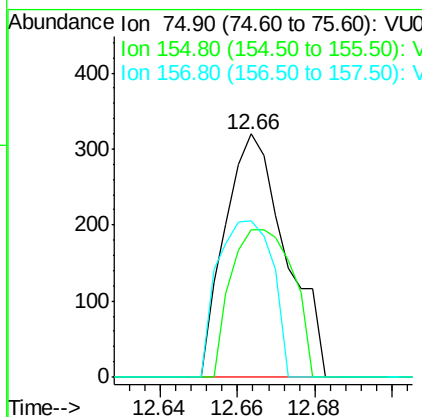
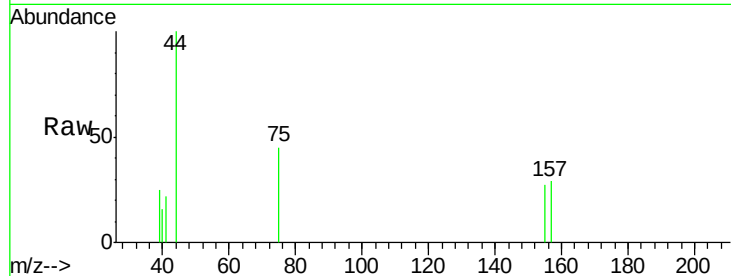
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	75	Resp:	348
Ion	Ratio	Lower	Upper
75	100		
155	61.5	44.5	133.3
157	58.3	57.0	170.8

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#93

1,2,4-Trichlorobenzene

Concen: 3.599 ug/l

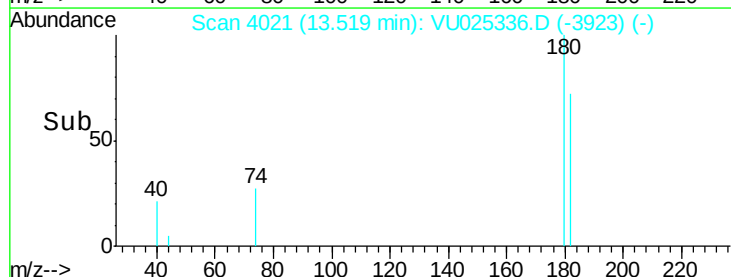
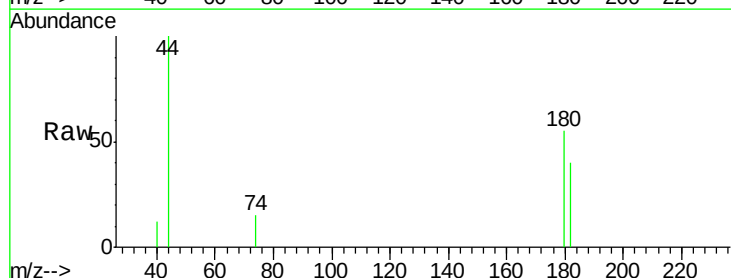
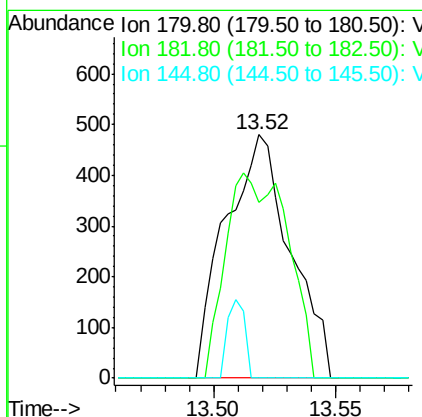
RT: 13.52 min Scan# 4021

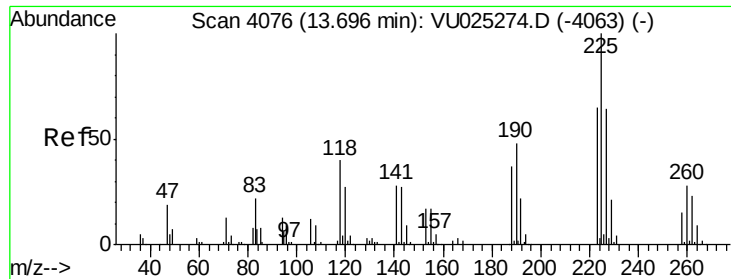
Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion:	180	Resp:	886
Ion	Ratio	Lower	Upper
180	100		
182	45.5	47.3	141.9#
145	8.9	14.9	44.7#





#94

Hexachlorobutadiene

Concen: 0.445 ug/l

RT: 13.70 min Scan# 4077

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

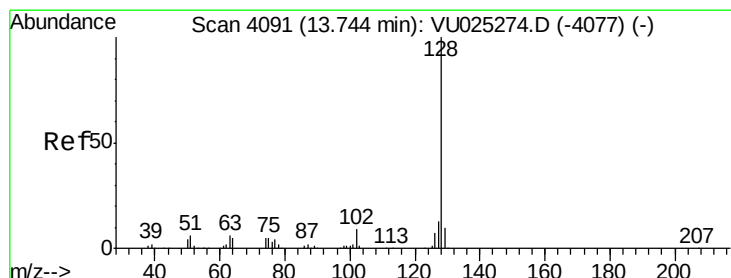
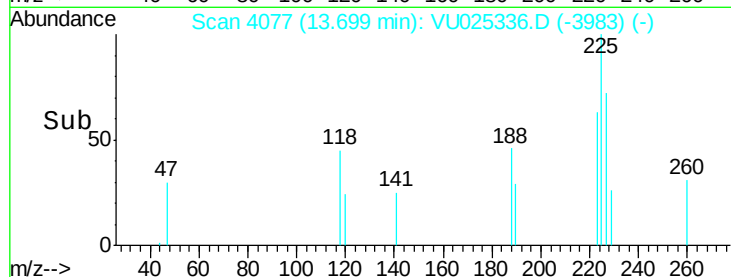
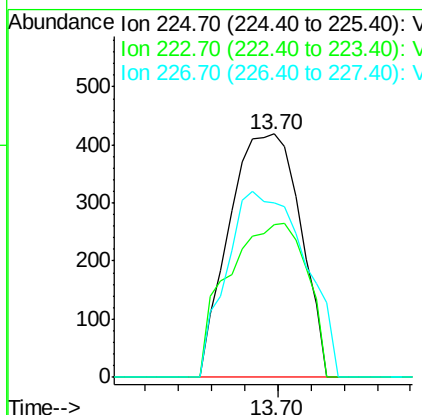
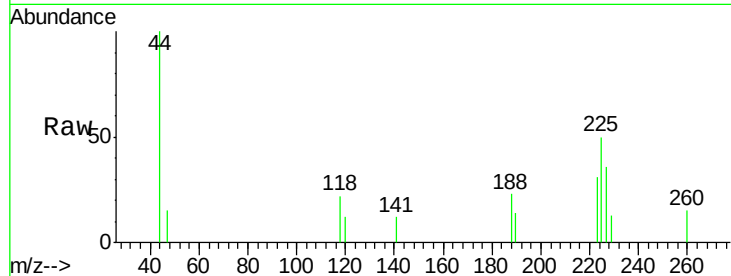
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	225	Resp:	623
Ion Ratio	Lower	Upper	
225	100		
223	70.5	31.9	95.7
227	84.3	32.3	96.9

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#95

Naphthalene

Concen: 2.731 ug/l

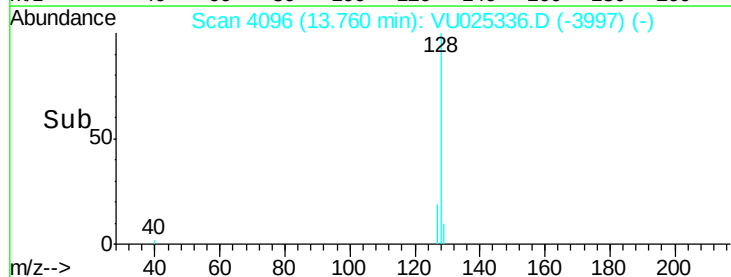
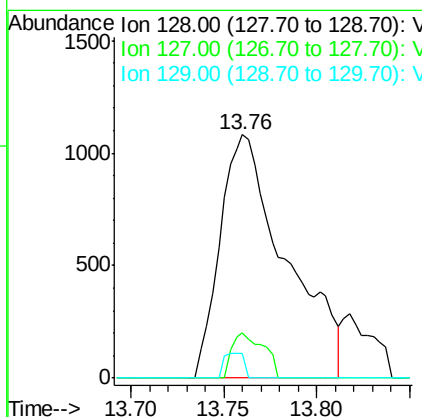
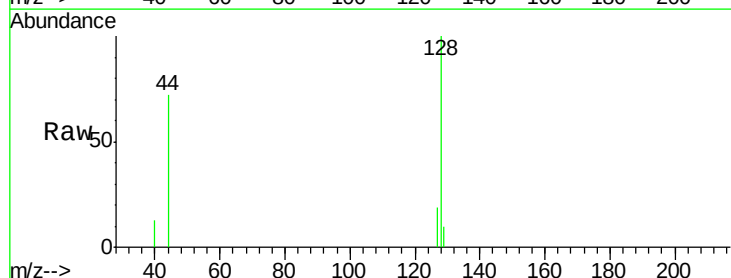
RT: 13.76 min Scan# 4096

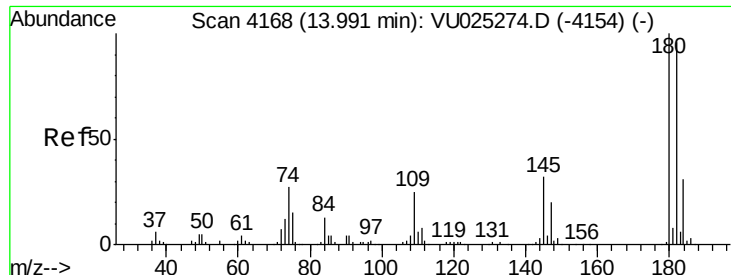
Delta R.T. 0.02 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion:	128	Resp:	2661
Ion Ratio	Lower	Upper	
128	100		
127	8.9	10.5	15.7#
129	3.2	8.3	12.5#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.912 ug/l
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.8	143.3#
145	13.3	15.6	46.8#

Manual Integrations
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 7/13/2018 11:44:10 AM

