

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025673.D
 Acq On : 27 Jul 2018 16:51
 Operator : MD/SY
 Sample : J3762-07 LOD/MDL 0.5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

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

Manual Integrations
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 7/31/2018 3:49:21 PM

Quant Time: Jul 30 13:41:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 28 02:19:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	170950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	267220	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	250312	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146169	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	138658	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
35) Dibromofluoromethane	4.89	113	110740	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
50) Toluene-d8	7.57	98	388730	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
62) 4-Bromofluorobenzene	10.31	95	142065	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	
Target Compounds						
						Qvalue
5) Bromomethane	1.63	94	986	0.87	ug/l	81
6) Chloroethane	1.70	64	829	0.61	ug/l	94
8) Diethyl Ether	2.11	74	608	0.50	ug/l	72
18) Methyl Acetate	2.62	43	1979	0.63	ug/l #	89
26) 2,2-Dichloropropane	4.23	77	2072	0.58	ug/l #	67
30) Chloroform	4.68	83	2420	0.59	ug/l	87
37) Ethyl Acetate	4.39	43	2302	0.71	ug/l #	79
41) Methacrylonitrile	4.56	41	876	0.49	ug/l #	72
42) 1,2-Dichloroethane	5.41	62	1933	0.55	ug/l #	77
43) Isopropyl Acetate	5.56	43	2880	0.54	ug/l #	88
45) 1,2-Dichloropropane	6.44	63	1273	0.53	ug/l	99
46) Dibromomethane	6.57	93	983	0.57	ug/l #	71
49) 1,4-Dioxane	6.62	88	660	10.34	ug/l	91
71) Bromoform	9.96	173	813	0.40	ug/l #	83
76) 1,2,3-Trichloropropane	10.50	75	1961m	0.62	ug/l	
81) trans-1,4-Dichloro-2-buten	10.51	75	820m	0.70	ug/l	
90) Hexachloroethane	12.15	117	630	0.39	ug/l	66
92) 1,2-Dibromo-3-Chloropropan	12.65	75	551m	0.67	ug/l	

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

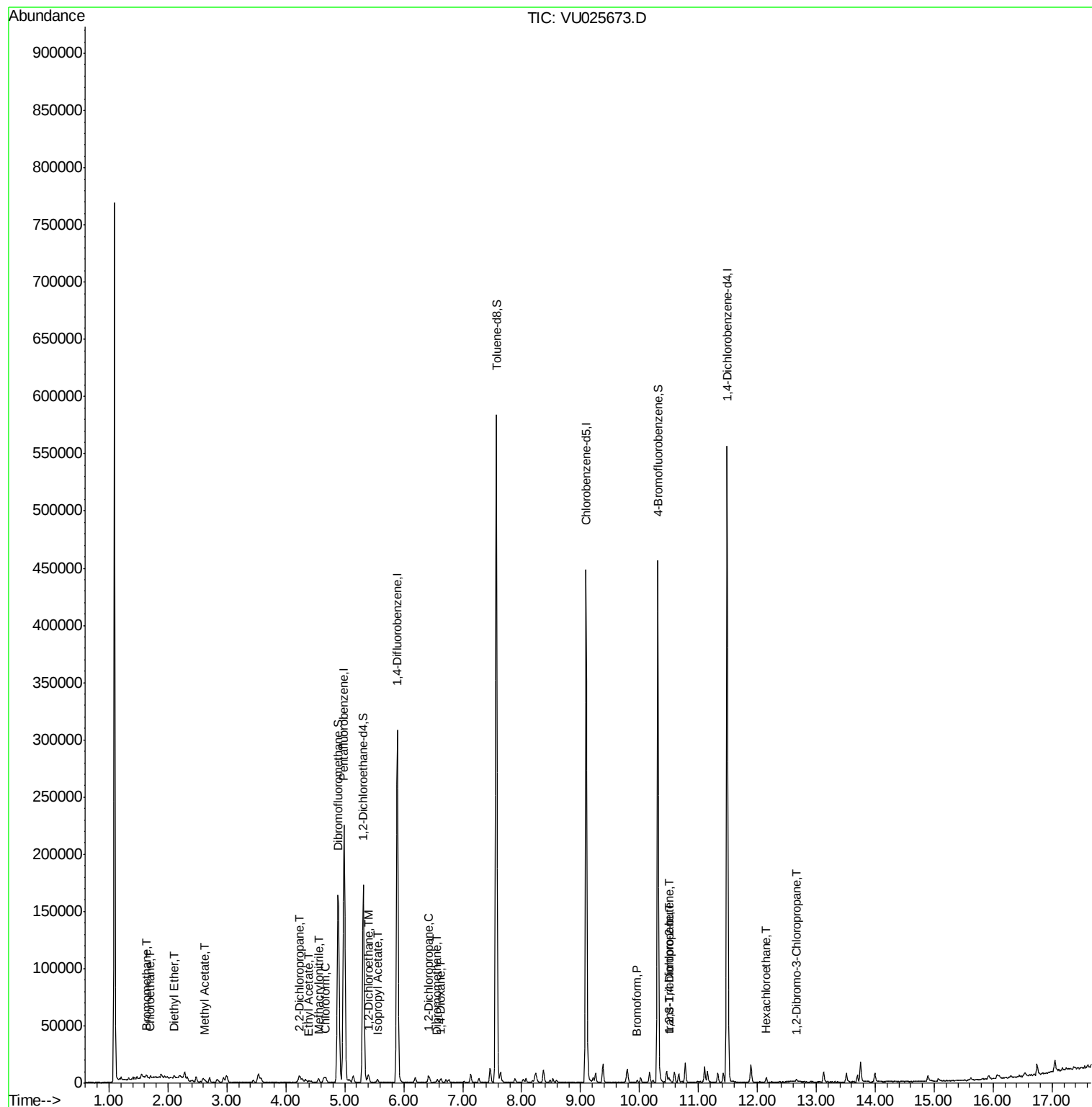
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\
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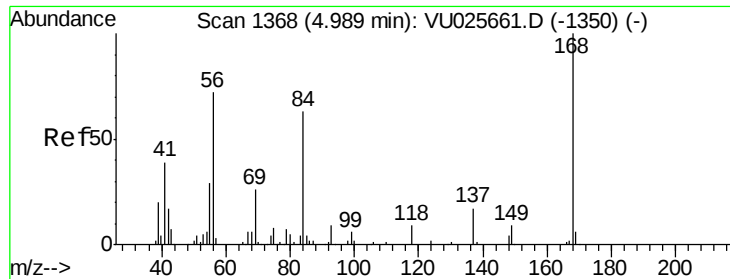
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 28 02:19:50 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:168 Resp: 170950

Ion Ratio Lower Upper

168 100

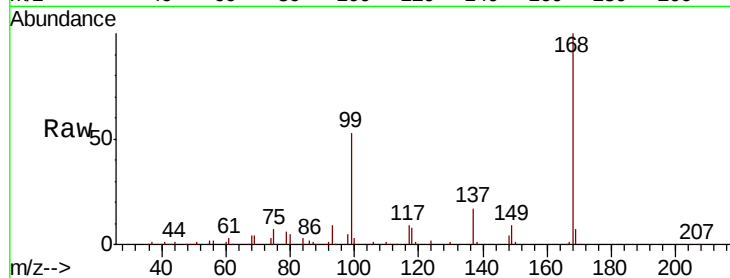
99 53.1 42.8 64.2

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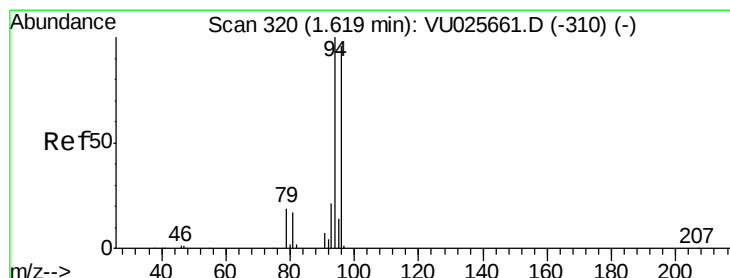
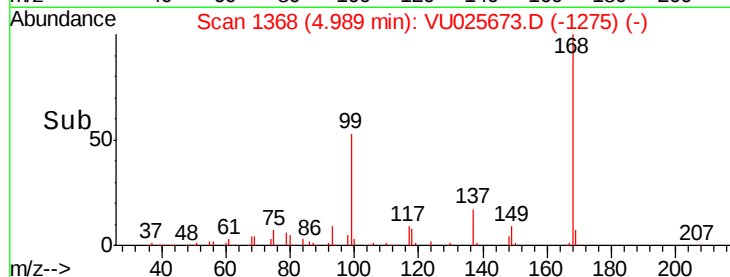
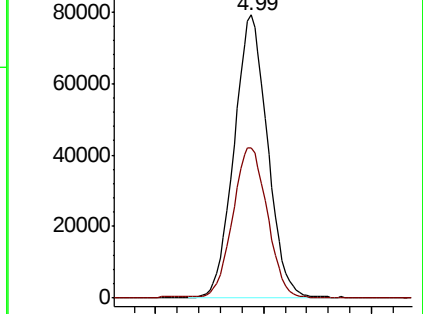
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Abundance Ion 167.90 (167.60 to 168.60): VU025661.D (-1350) (-)

Ion 98.90 (98.60 to 99.60): VU025661.D (-1350) (-)



#5

Bromomethane

Concen: 0.87 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025673.D

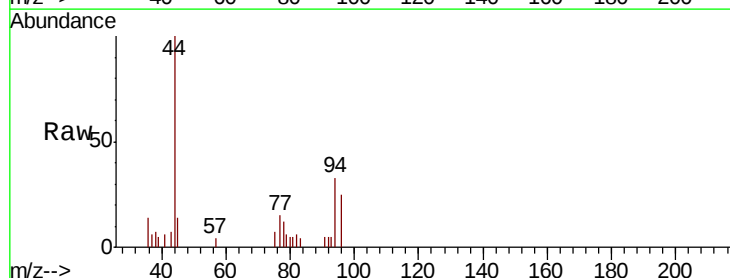
Acq: 27 Jul 2018 16:51

Tgt Ion: 94 Resp: 986

Ion Ratio Lower Upper

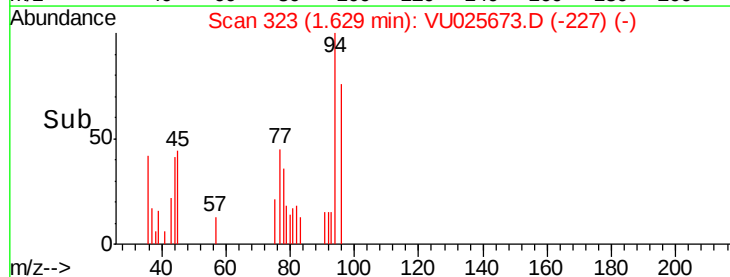
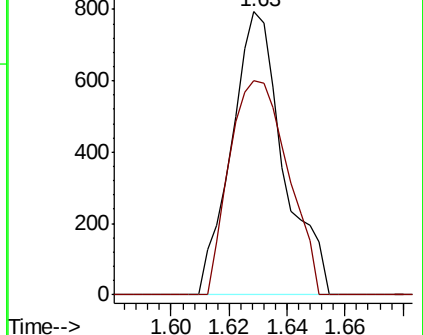
94 100

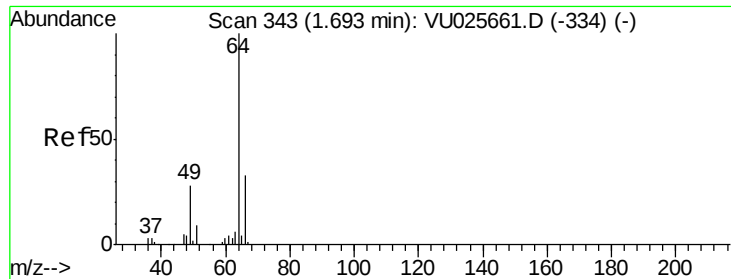
96 75.7 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU025661.D (-310) (-)

Ion 95.90 (95.60 to 96.60): VU025661.D (-310) (-)





#6

Chloroethane

Concen: 0.61 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 64 Resp: 829

Ion Ratio Lower Upper

64 100

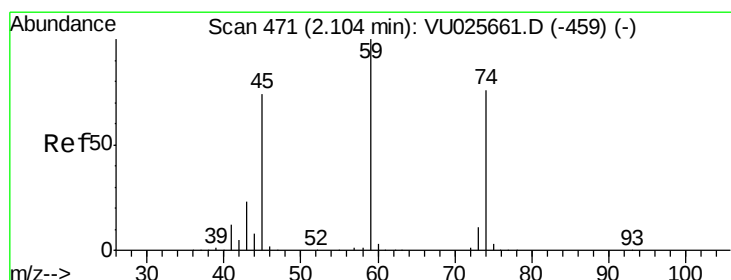
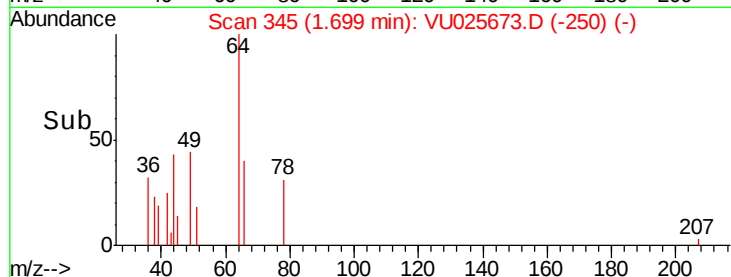
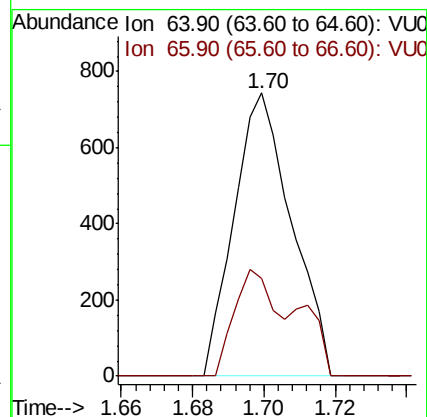
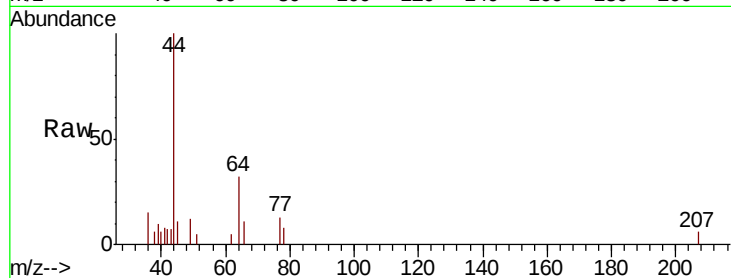
66 34.5 25.0 37.4

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#8

Diethyl Ether

Concen: 0.50 ug/l

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU025673.D

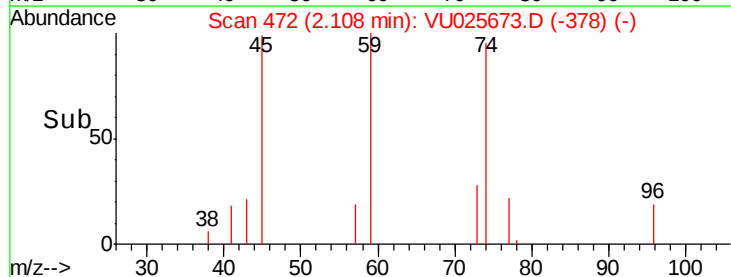
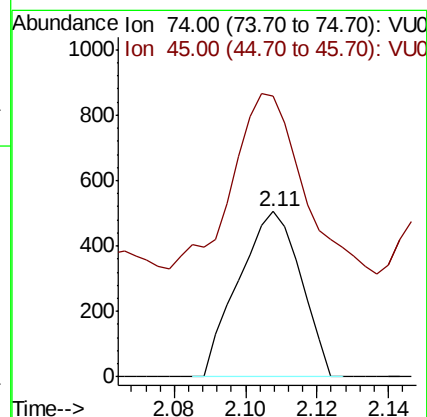
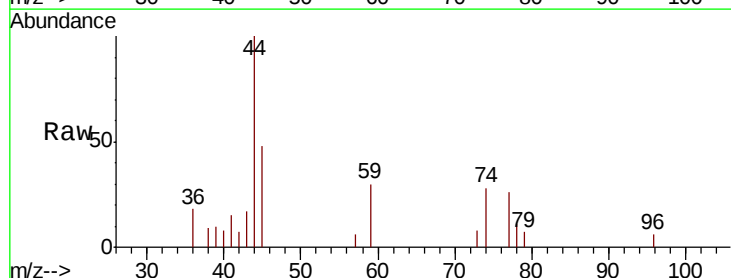
Acq: 27 Jul 2018 16:51

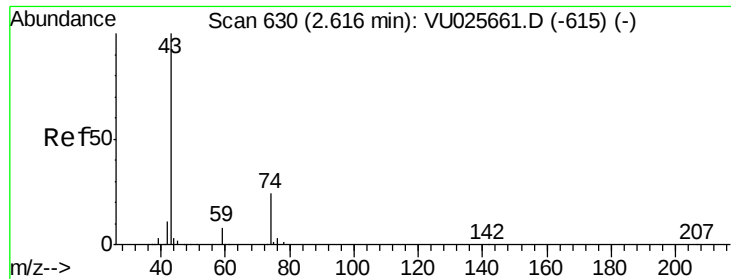
Tgt Ion: 74 Resp: 608

Ion Ratio Lower Upper

74 100

45 123.8 48.3 144.9





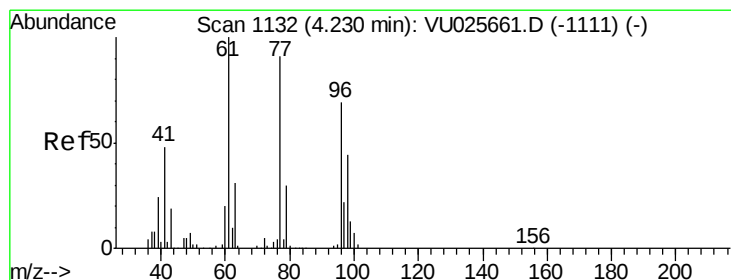
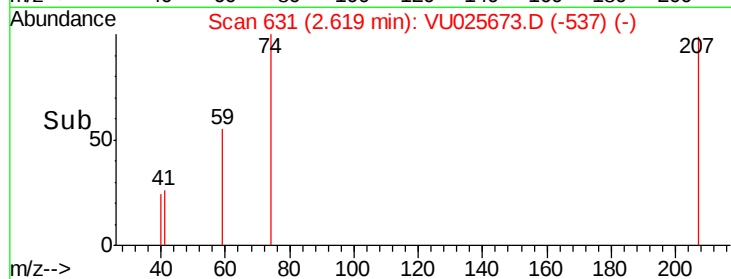
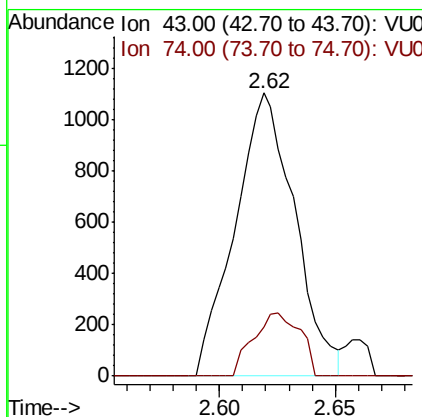
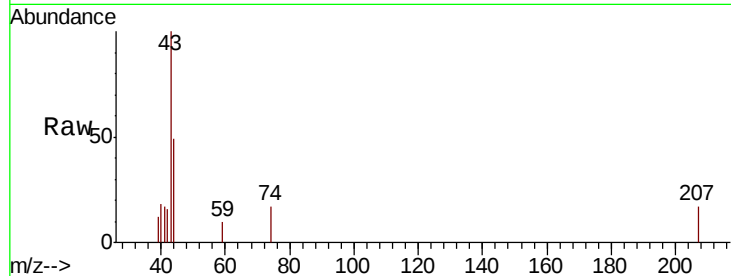
#18
Methyl Acetate
Concen: 0.63 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

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

Tot Ion: 43 Resp: 1979
Ion Ratio Lower Upper
43 100
74 17.5 18.5 27.7#

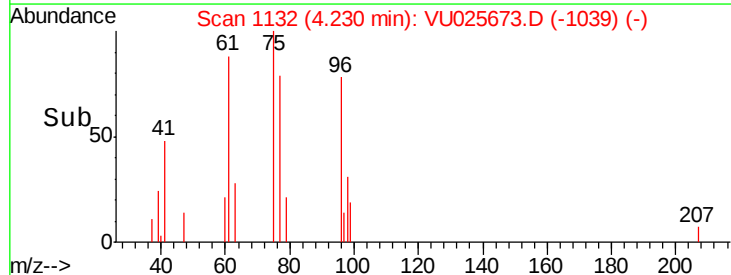
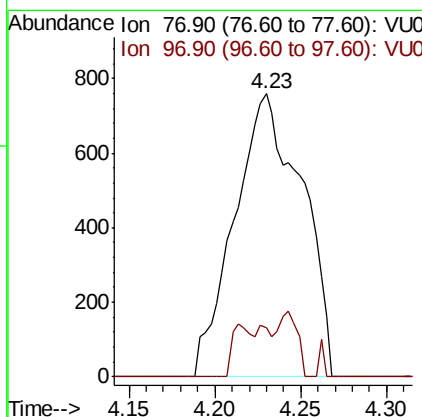
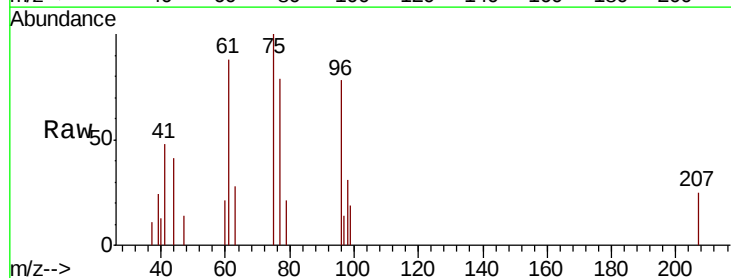
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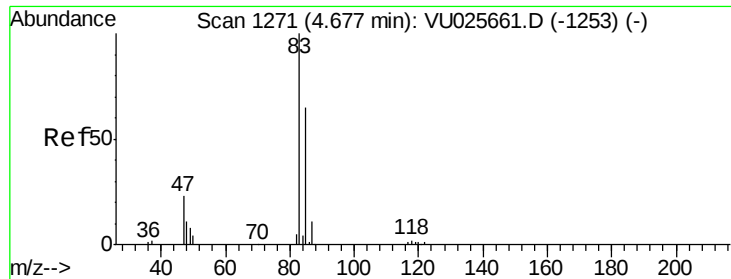
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#26
2,2-Dichloropropane
Concen: 0.58 ug/l
RT: 4.23 min Scan# 1132
Delta R.T. 0.00 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

Tgt Ion: 77 Resp: 2072
Ion Ratio Lower Upper
77 100
97 6.7 11.2 33.5#





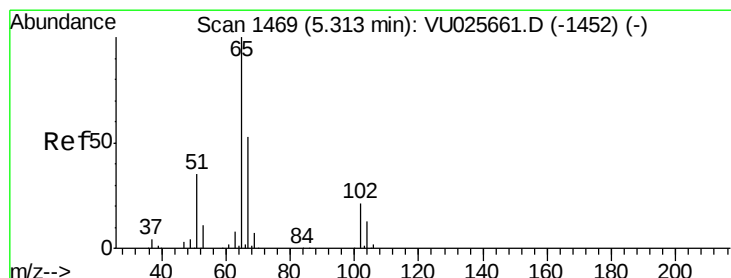
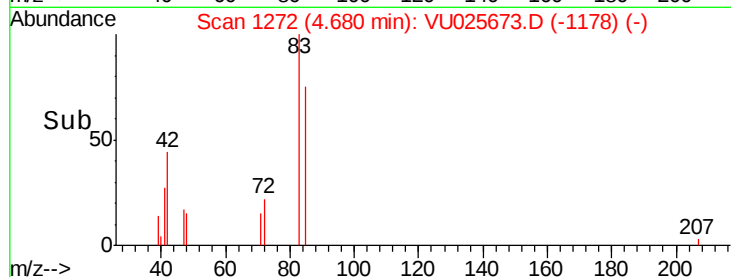
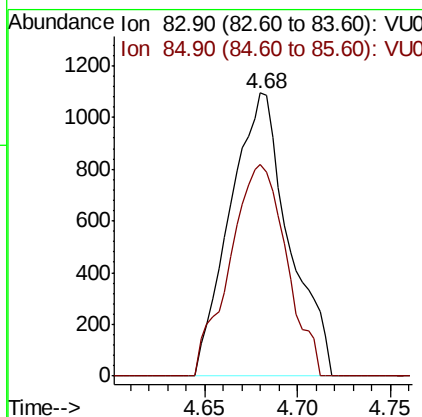
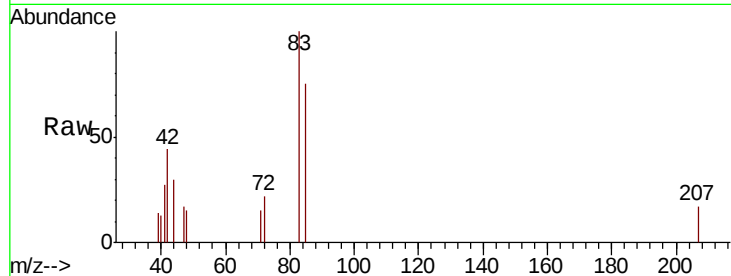
#30
Chloroform
Concen: 0.59 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

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

Tot Ion: 83 Resp: 2420
Ion Ratio Lower Upper
83 100
85 75.0 51.5 77.3

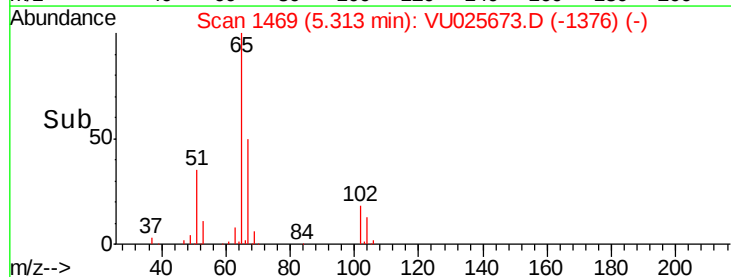
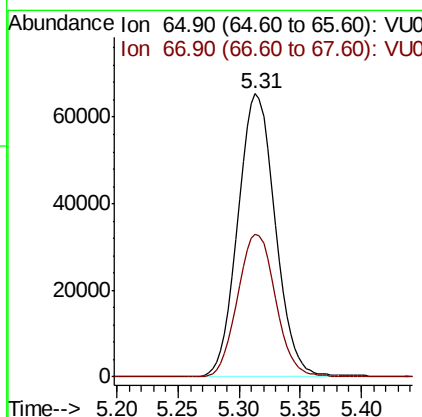
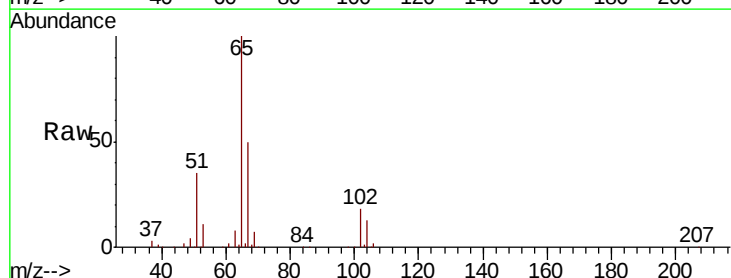
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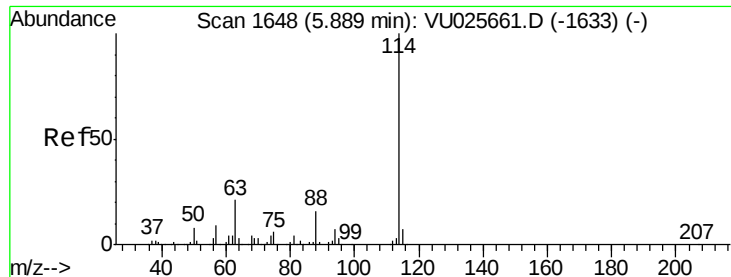
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#33
1,2-Dichloroethane-d4
Concen: 52.06 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

Tgt Ion: 65 Resp: 138658
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.6





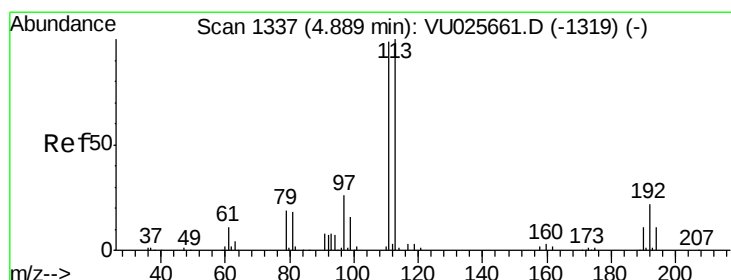
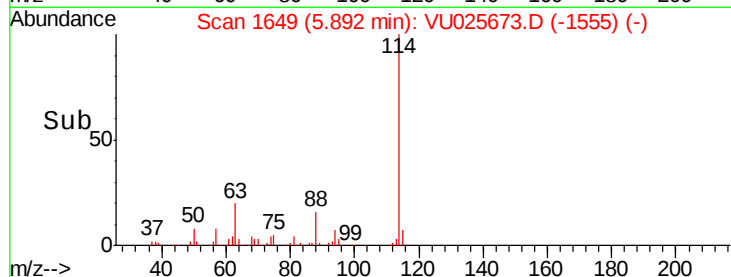
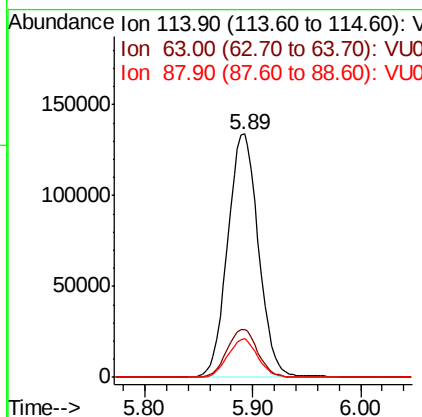
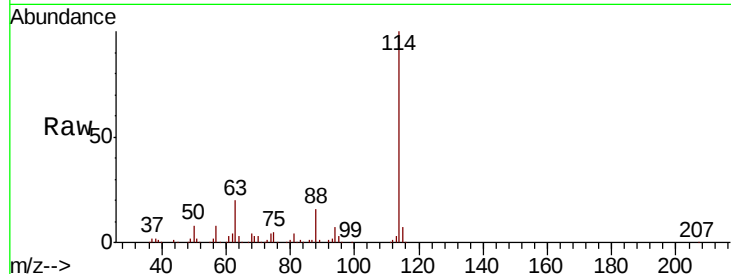
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025673.D
 Acq: 27 Jul 2018 16:51

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

Tot Ion	Ratio	Resp	Lower	Upper
114	100	267220		
63	19.7		0.0	41.6
88	15.7		0.0	32.4

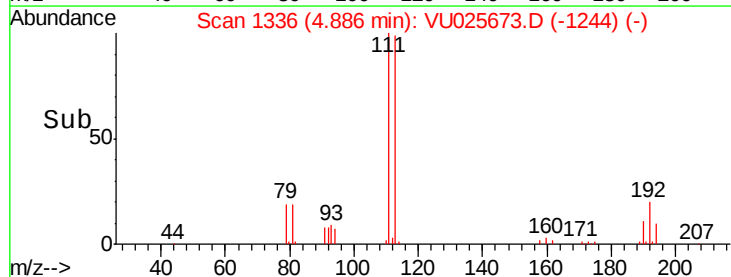
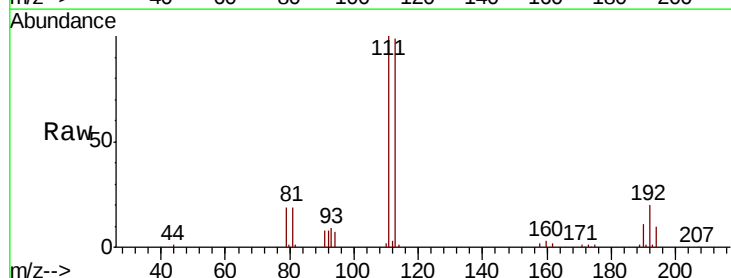
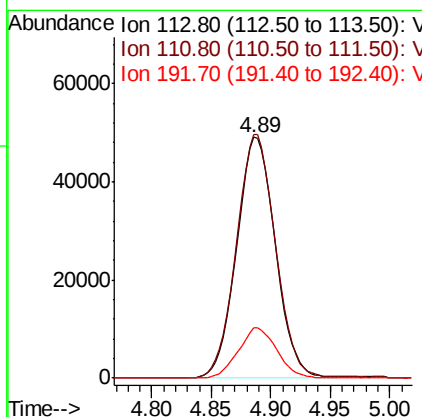
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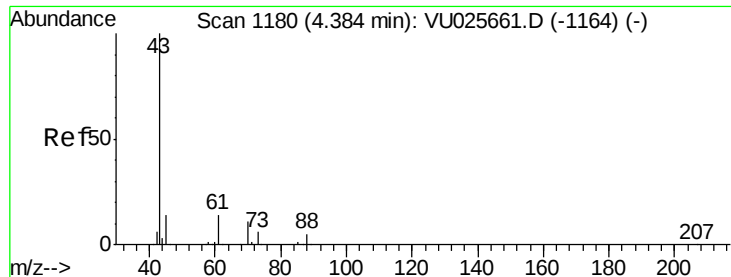
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#35
 Dibromofluoromethane
 Concen: 47.65 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025673.D
 Acq: 27 Jul 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	110740		
111	101.8		81.7	122.5
192	20.7		17.1	25.7





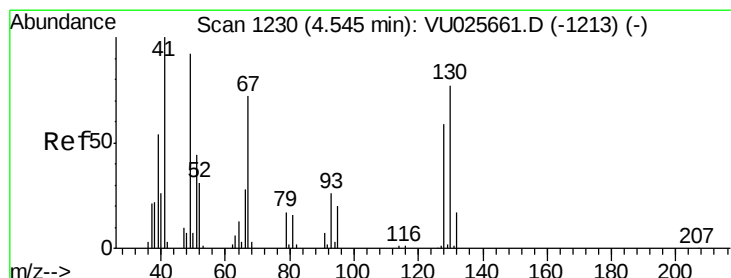
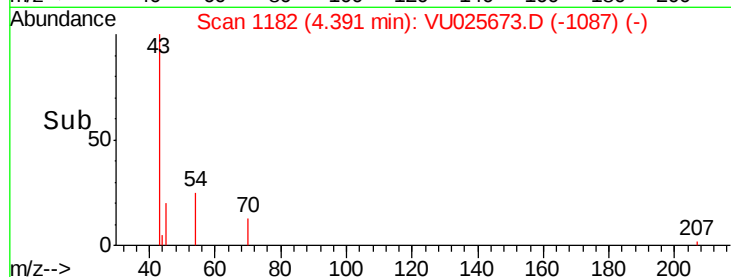
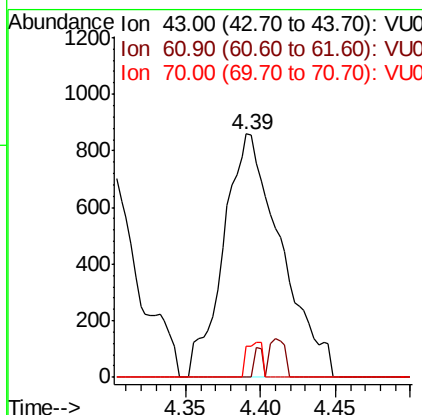
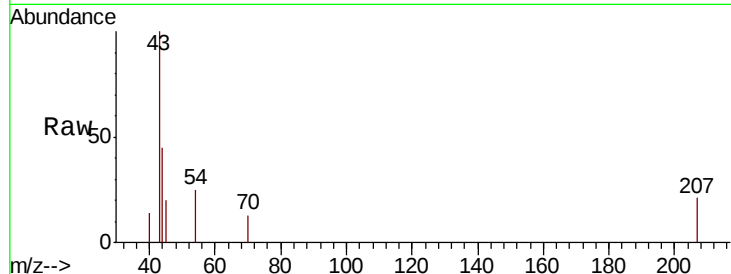
#37
Ethyl Acetate
Concen: 0.71 ug/l
RT: 4.39 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	4.2	10.7	16.1#
70	3.9	8.4	12.6#

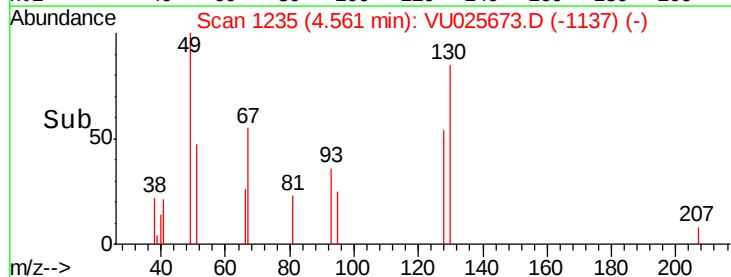
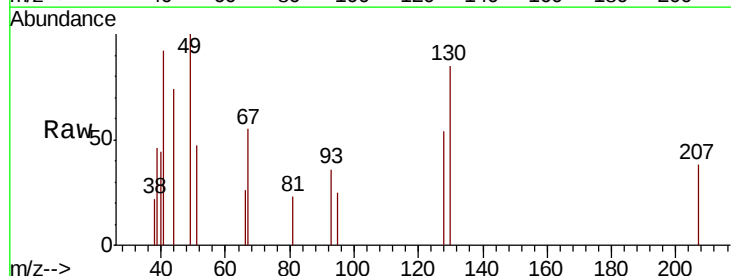
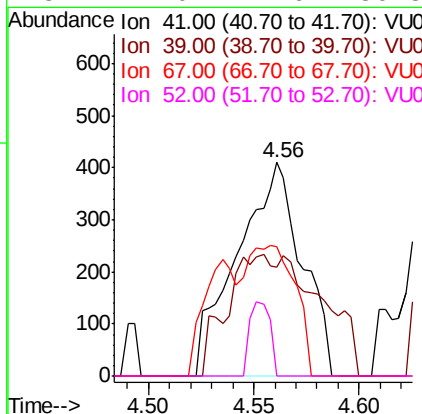
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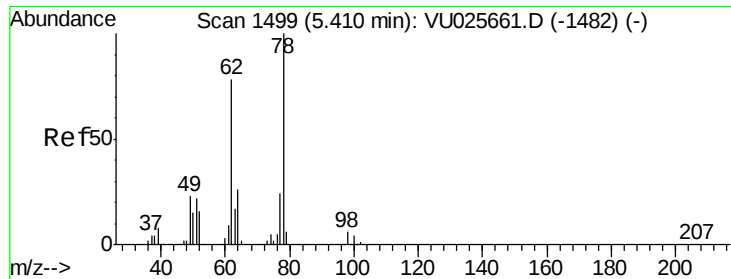
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#41
Methacrylonitrile
Concen: 0.49 ug/l
RT: 4.56 min Scan# 1235
Delta R.T. 0.02 min
Lab File: VU025673.D
Acq: 27 Jul 2018 16:51

Tgt Ion	Ratio	Lower	Upper
41	100		
39	43.4	44.4	66.6#
67	42.6	56.0	84.0#
52	11.0	24.6	36.8#





#42

1,2-Dichloroethane

Concen: 0.55 ug/l

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

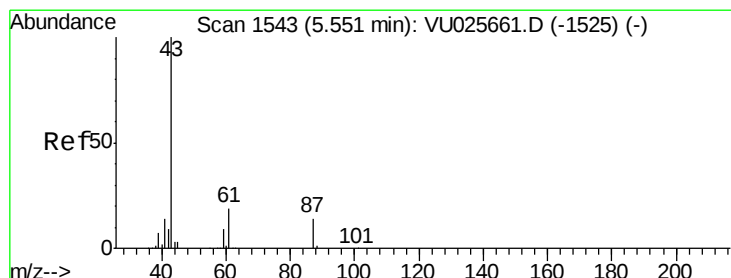
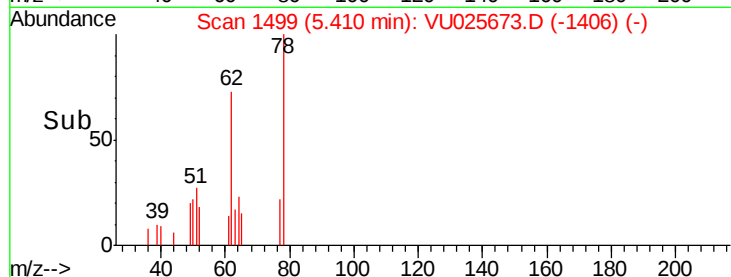
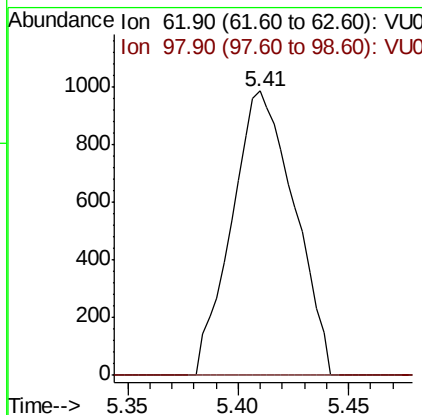
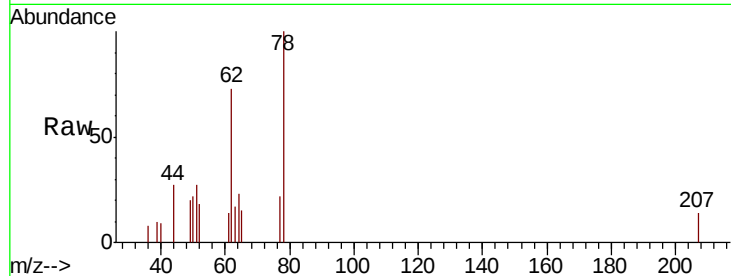
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	16.4

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#43

Isopropyl Acetate

Concen: 0.54 ug/l

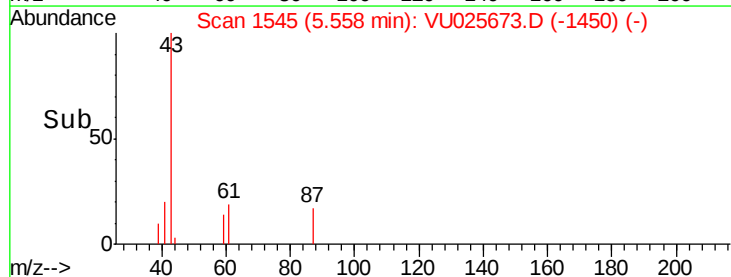
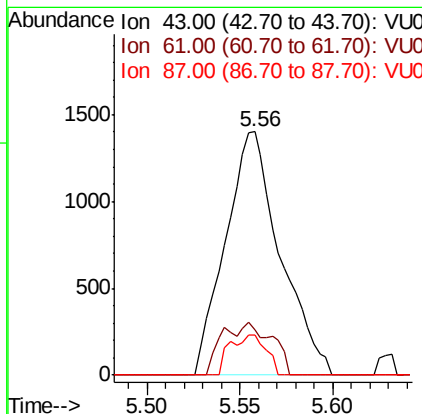
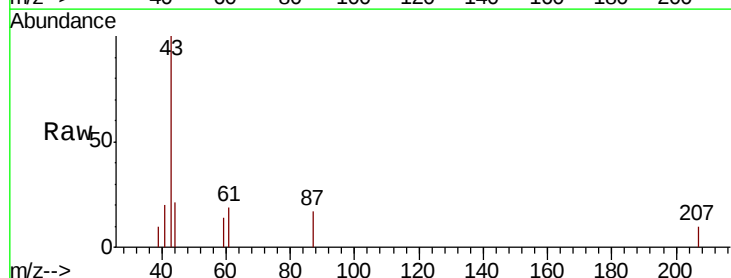
RT: 5.56 min Scan# 1545

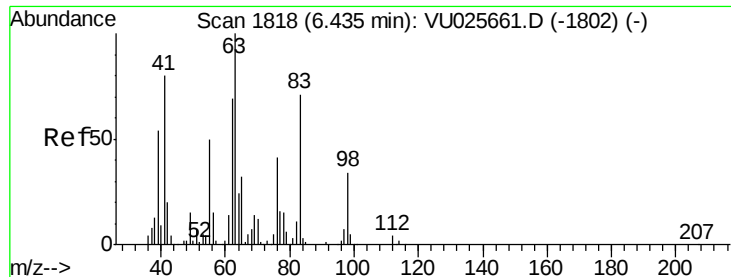
Delta R.T. 0.01 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Tgt Ion	Ratio	Lower	Upper
43	100		
61	12.2	15.5	23.3#
87	10.9	10.6	16.0





#45

1,2-Dichloropropane

Concen: 0.53 ug/l

RT: 6.44 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 63 Resp: 1273

Ion Ratio Lower Upper

63 100

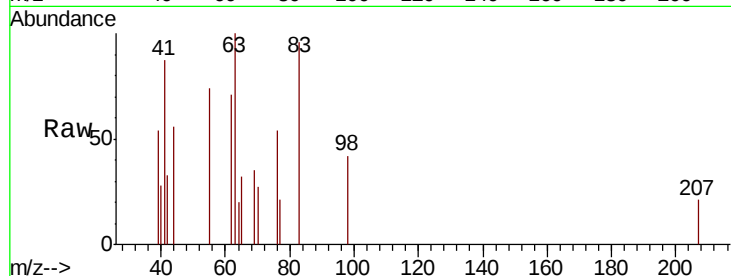
65 32.0 26.1 39.1

Manual Integrations

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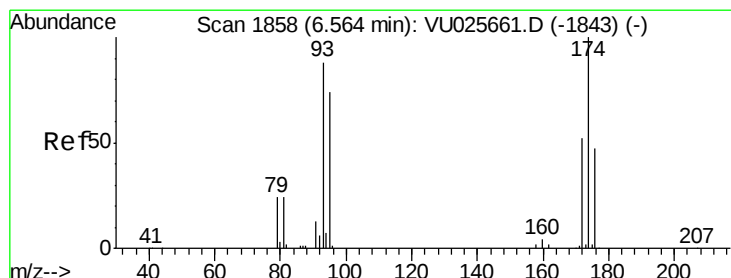
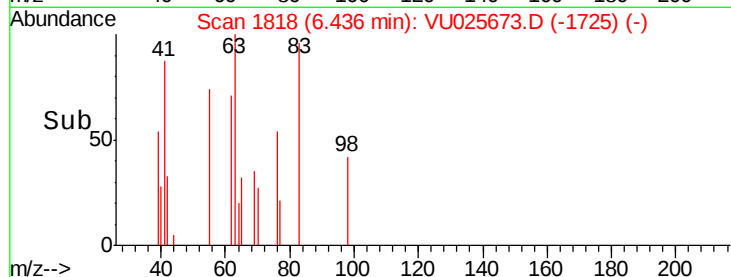
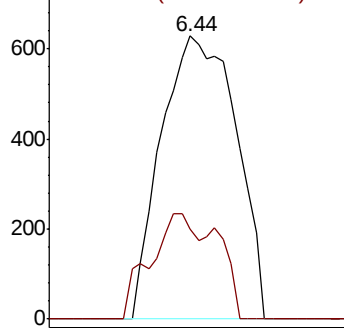
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Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#46

Dibromomethane

Concen: 0.57 ug/l

RT: 6.57 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

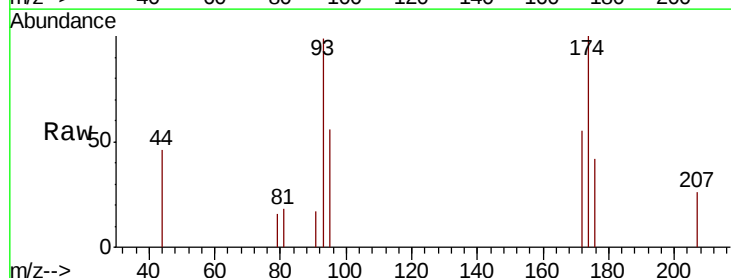
Tgt Ion: 93 Resp: 983

Ion Ratio Lower Upper

93 100

95 28.2 66.6 100.0#

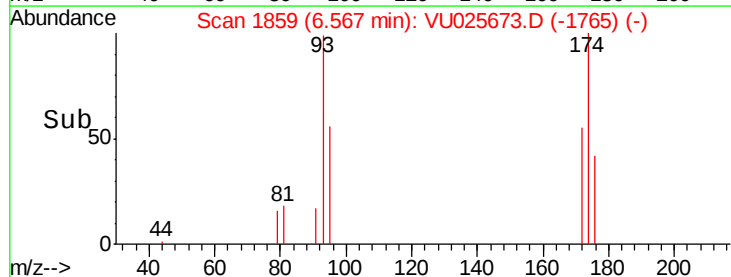
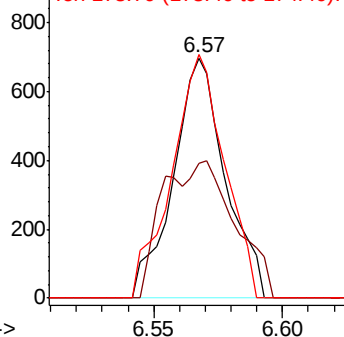
174 103.0 85.8 128.8

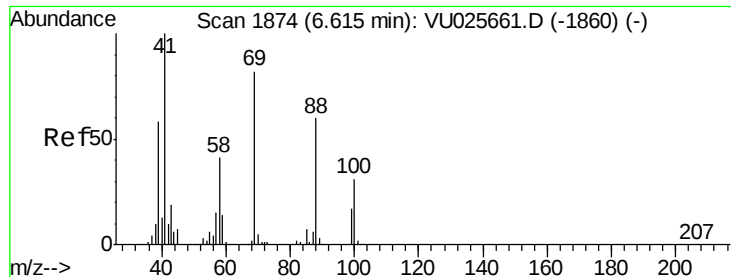


Abundance Ion 92.80 (92.50 to 93.50): VU0

Ion 94.80 (94.50 to 95.50): VU0

Ion 173.70 (173.40 to 174.40): V





#49

1,4-Dioxane

Concen: 10.34 ug/l

RT: 6.62 min Scan# 1875

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

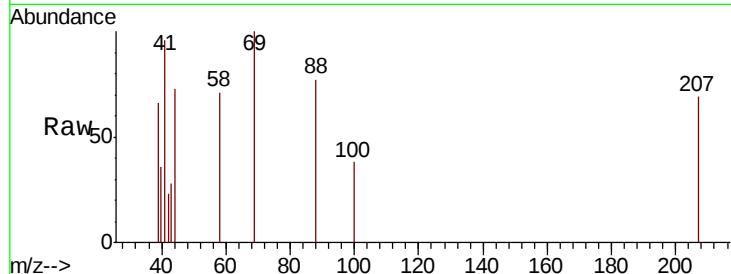
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

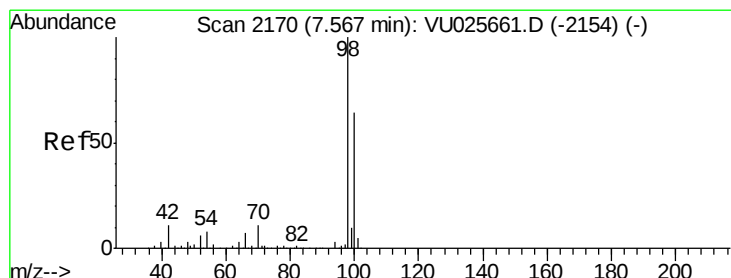
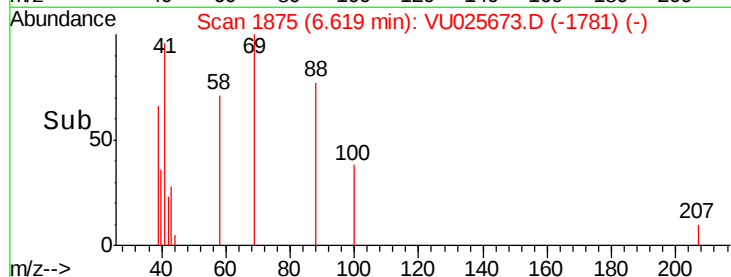
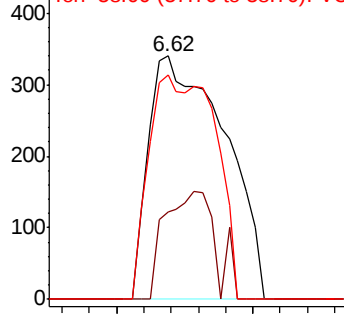
Tot Ion:	88	Resp:	660
Ion	Ratio	Lower	Upper
88	100		
43	29.5	27.3	40.9
58	80.0	57.6	86.4

Manual Integrations
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Abundance Ion 88.00 (87.70 to 88.70): VU025661.D (-1860) (-)



#50

Toluene-d8

Concen: 47.80 ug/l

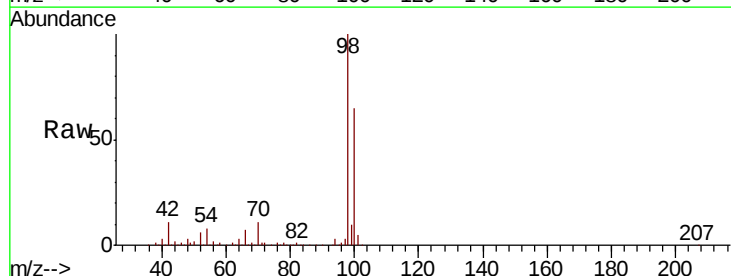
RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

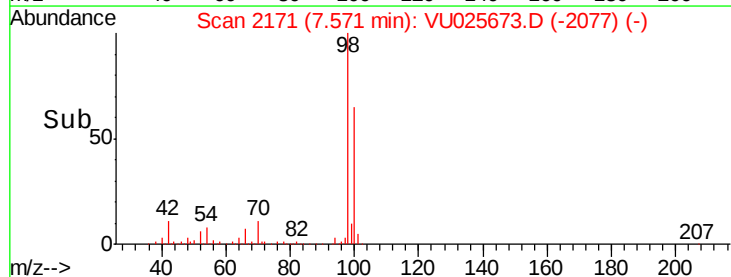
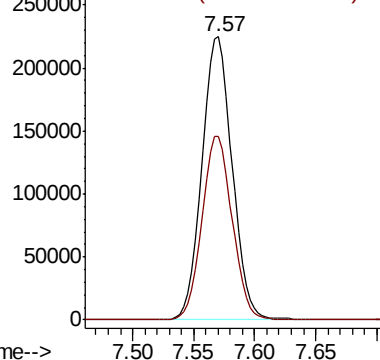
Lab File: VU025673.D

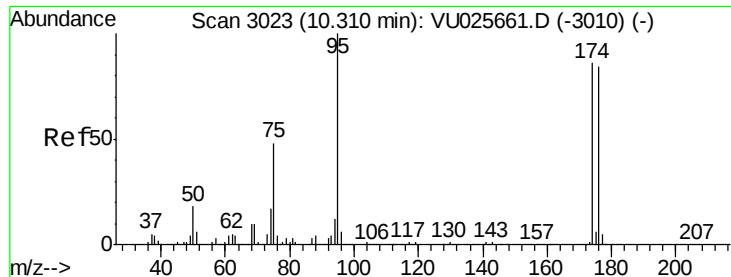
Acq: 27 Jul 2018 16:51

Tgt Ion:	98	Resp:	388730
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.1	76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025661.D (-2154) (-)





#62

4-Bromofluorobenzene

Concen: 45.00 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

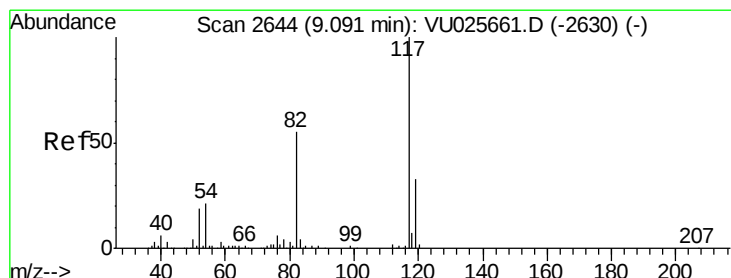
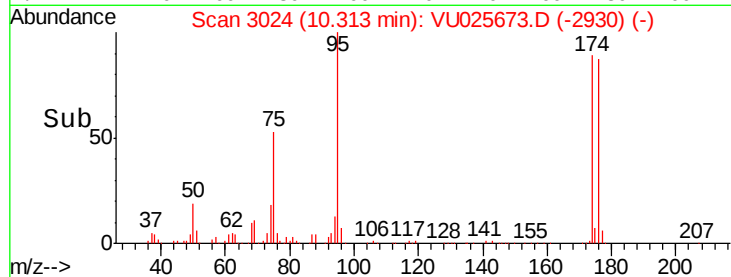
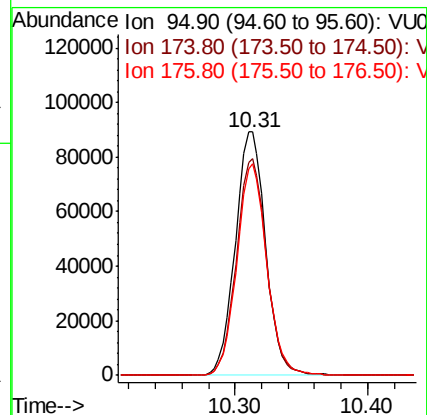
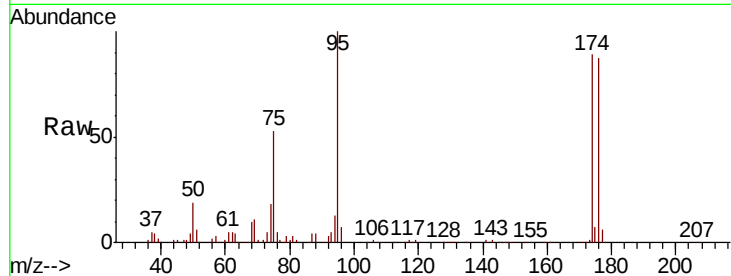
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	95	Resp:	142065
Ion Ratio	Lower	Upper	
95	100		
174	88.3	0.0	172.2
176	85.6	0.0	162.6

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.00 ug/l

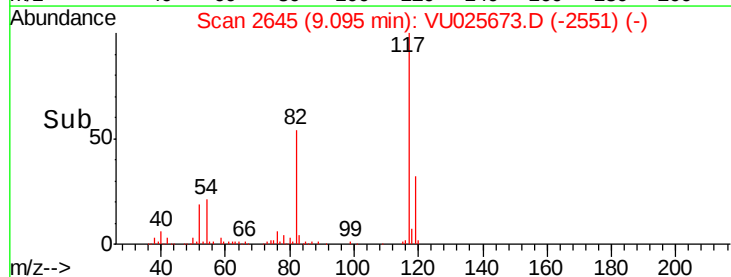
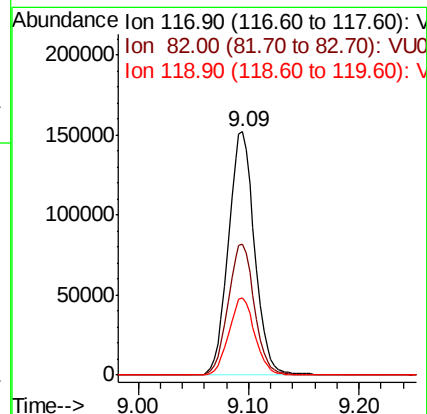
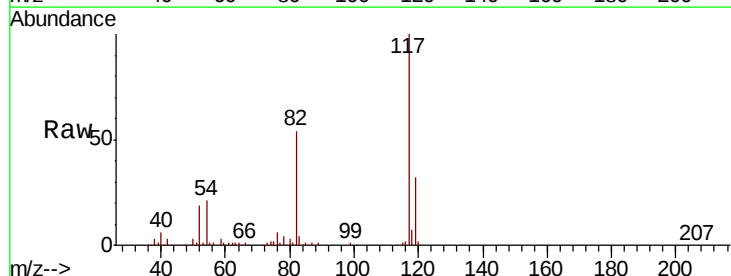
RT: 9.09 min Scan# 2645

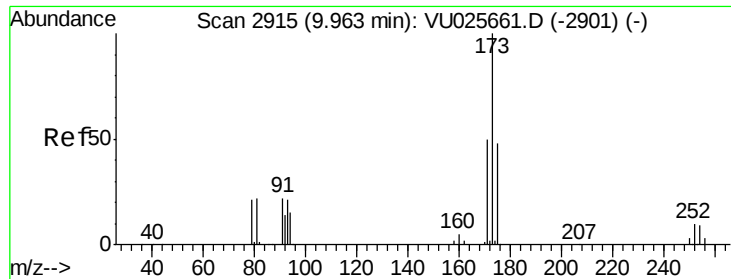
Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Tgt Ion:	117	Resp:	250312
Ion Ratio	Lower	Upper	
117	100		
82	53.8	46.0	69.0
119	31.7	26.0	39.0





#71

Bromoform

Concen: 0.40 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

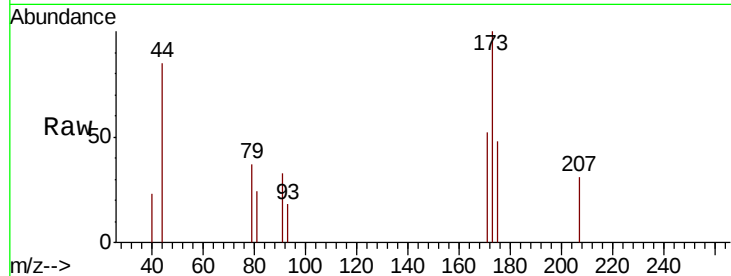
LOD-MDL-WATER-01-QT3-2018

Tot Ion:173 Resp: 813

Ion	Ratio	Lower	Upper
173	100		
175	59.2	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
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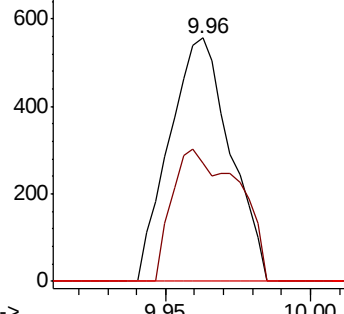
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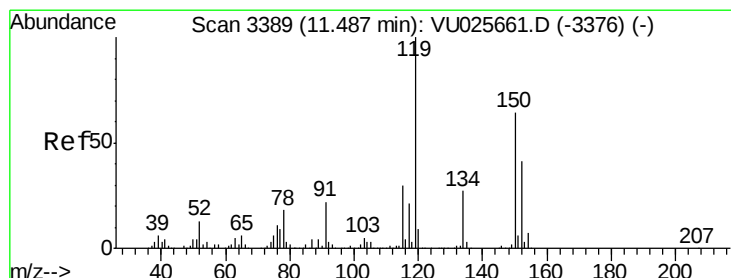
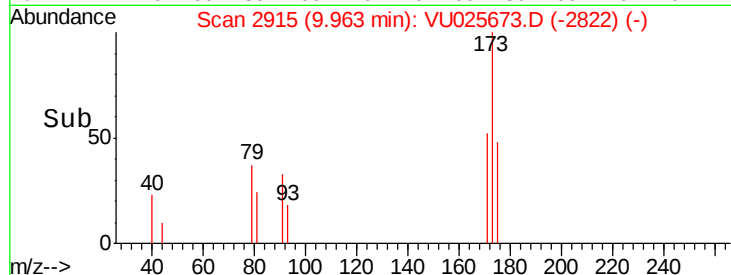
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

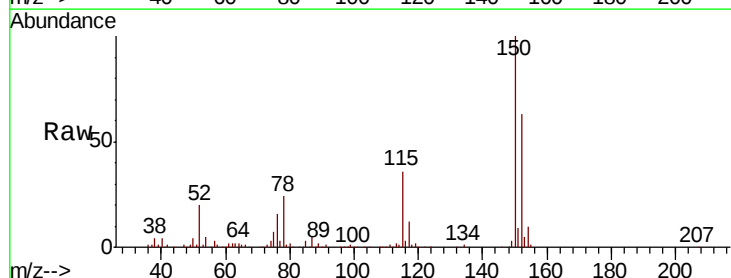
Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Tgt Ion:152 Resp: 146169

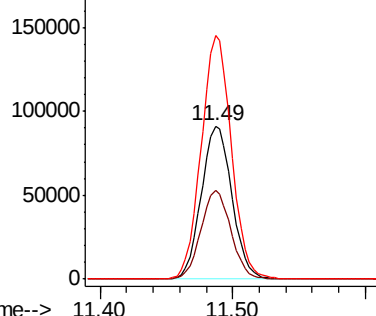
Ion	Ratio	Lower	Upper
152	100		
115	57.0	40.1	120.3
150	156.9	0.0	351.4



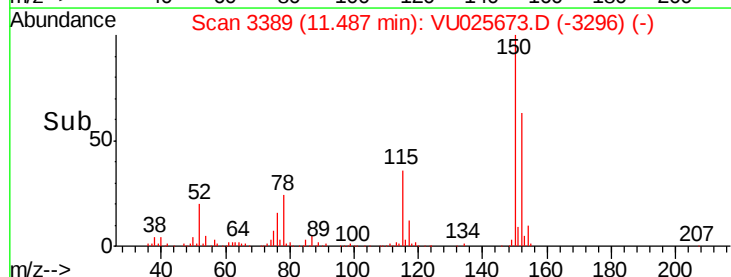
Abundance Ion 151.90 (151.60 to 152.60): V

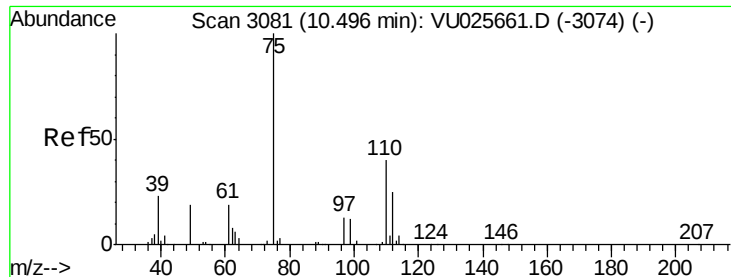
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->





#76

1,2,3-Trichloropropane

Concen: 0.62 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 75 Resp: 1961

Ion Ratio Lower Upper

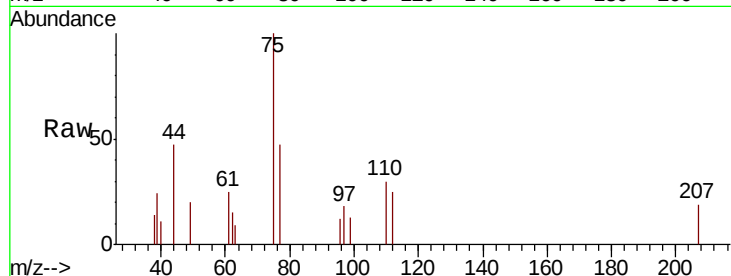
75 100

77 41.2 20.4 61.3

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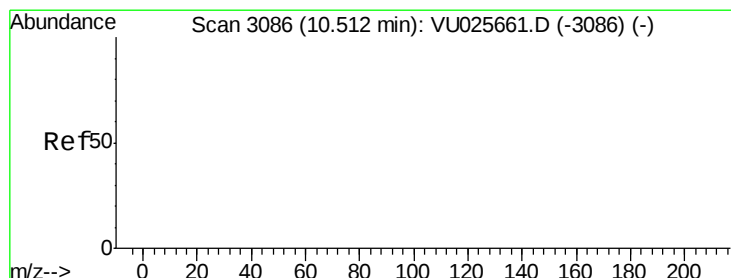
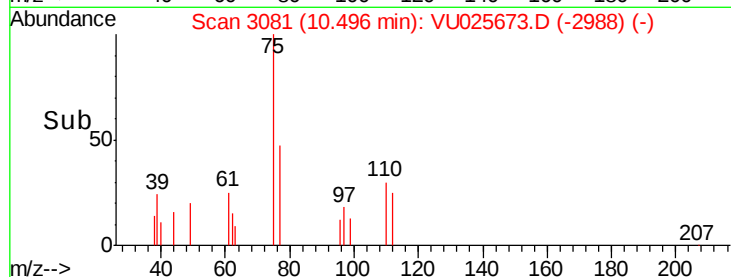
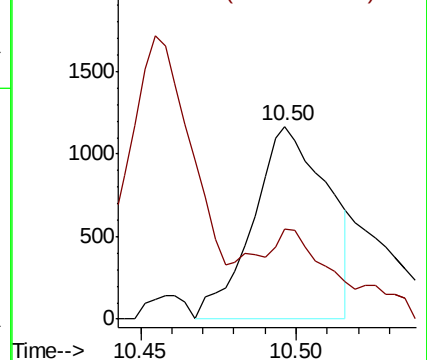
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Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-3074) (-)

Ion 77.00 (76.70 to 77.70): VU025661.D (-3074) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 0.70 ug/l m

RT: 10.51 min Scan# 3086

Delta R.T. 0.02 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

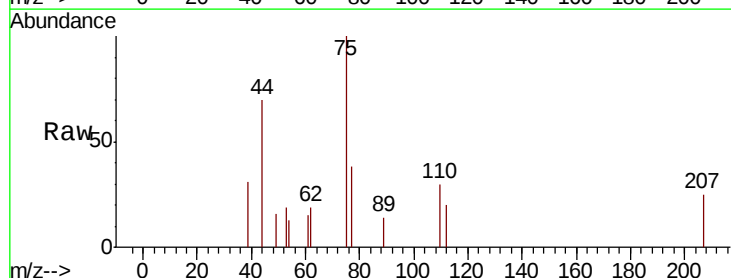
Tgt Ion: 75 Resp: 820

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

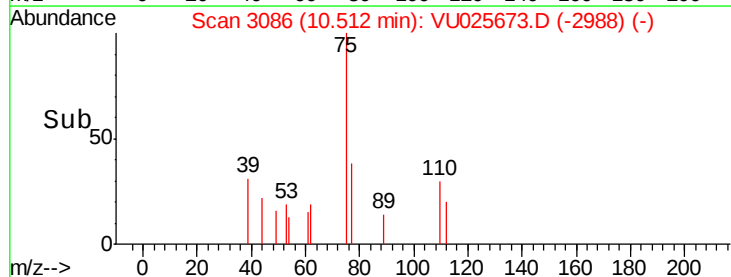
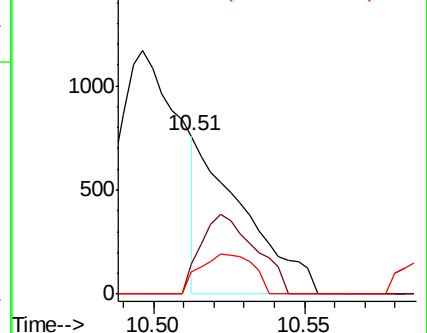
89 0.0 0.0 0.0

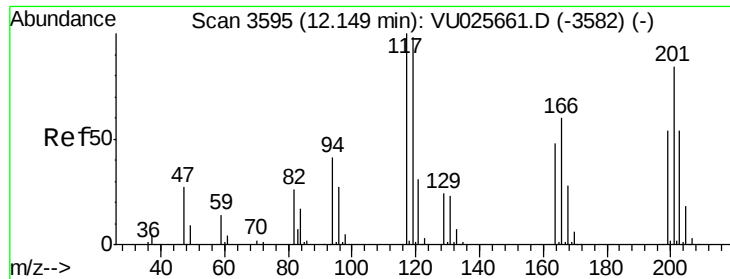


Abundance Ion 74.90 (74.60 to 75.60): VU025661.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU025661.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU025661.D (-3086) (-)





#90

Hexachloroethane

Concen: 0.39 ug/l

RT: 12.15 min Scan# 3595

Delta R.T. 0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:117 Resp: 630

Ion Ratio Lower Upper

117 100

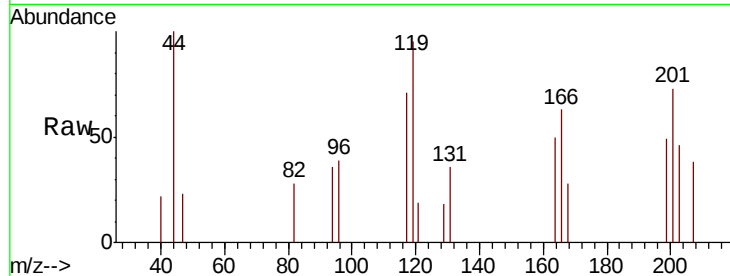
201 116.5 42.5 127.6

Manual Integrations

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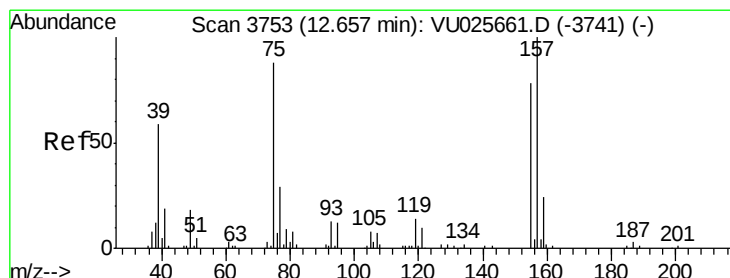
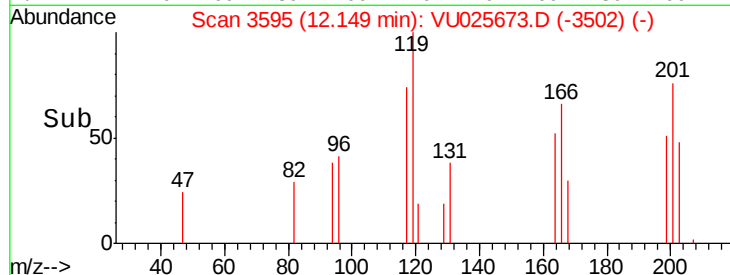
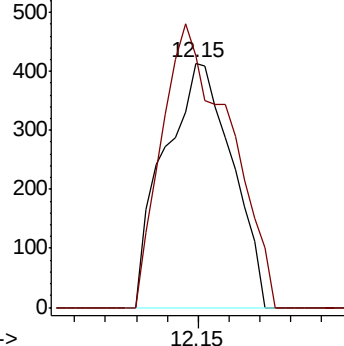
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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.67 ug/l m

RT: 12.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VU025673.D

Acq: 27 Jul 2018 16:51

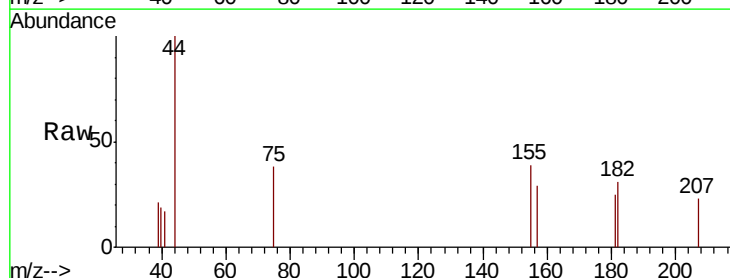
Tgt Ion: 75 Resp: 551

Ion Ratio Lower Upper

75 100

155 43.0 44.5 133.3#

157 74.0 57.0 170.8



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

