

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025674.D
 Acq On : 27 Jul 2018 17:15
 Operator : MD/SY
 Sample : J3762-09 MDL 0.5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Manual Integrations
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 7/31/2018 3:49:26 PM

Quant Time: Jul 30 13:44:52 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	170832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	262932	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	247903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	148426	50.00	ug/l	0.00

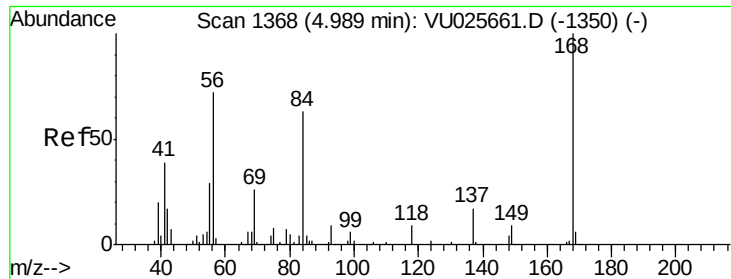
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	138244	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
35) Dibromofluoromethane	4.89	113	109267	47.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.56%	
50) Toluene-d8	7.57	98	380746	47.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.16%	
62) 4-Bromofluorobenzene	10.31	95	139853	45.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.06%	

Target Compounds

						Qvalue
5) Bromomethane	1.63	94	750	0.66	ug/l	95
6) Chloroethane	1.70	64	755	0.56	ug/l	94
8) Diethyl Ether	2.10	74	707	0.58	ug/l	64
18) Methyl Acetate	2.62	43	1647	0.53	ug/l	95
28) Bromochloromethane	4.55	49	936m	0.54	ug/l	
30) Chloroform	4.69	83	1959	0.48	ug/l	91
36) 1,1-Dichloropropene	5.15	75	1029	0.33	ug/l #	56
37) Ethyl Acetate	4.39	43	1875	0.59	ug/l #	77
41) Methacrylonitrile	4.55	41	602	0.34	ug/l #	63
43) Isopropyl Acetate	5.55	43	2981	0.57	ug/l #	93
45) 1,2-Dichloropropane	6.44	63	1057	0.45	ug/l	99
46) Dibromomethane	6.56	93	824	0.49	ug/l	90
49) 1,4-Dioxane	6.63	88	645	10.27	ug/l #	81
71) Bromoform	9.96	173	743	0.37	ug/l #	93
76) 1,2,3-Trichloropropane	10.50	75	1583m	0.49	ug/l	
81) trans-1,4-Dichloro-2-buten	10.52	75	455m	0.38	ug/l	
90) Hexachloroethane	12.15	117	715	0.43	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	422	0.51	ug/l	76

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 170832

Ion Ratio Lower Upper

168 100

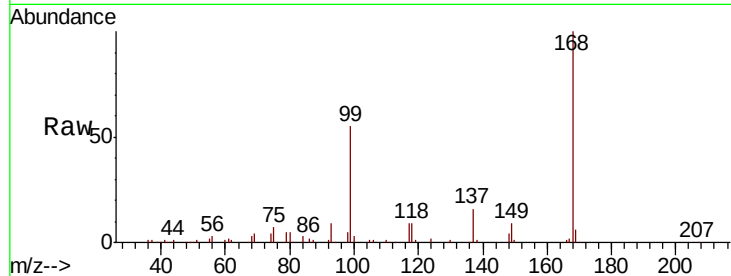
99 55.3 42.8 64.2

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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) (-)

80000

60000

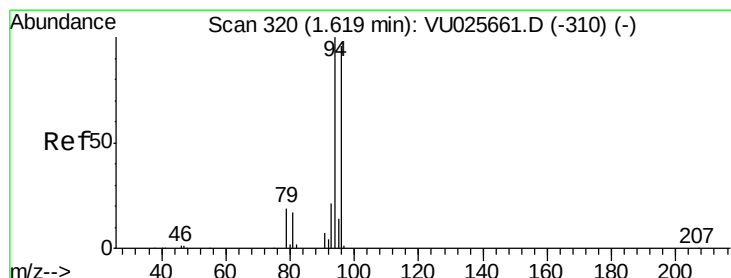
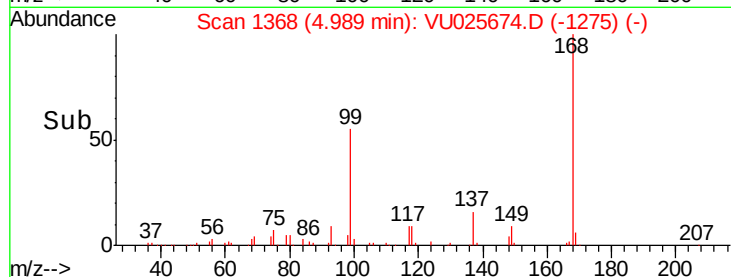
40000

20000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: 0.66 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025674.D

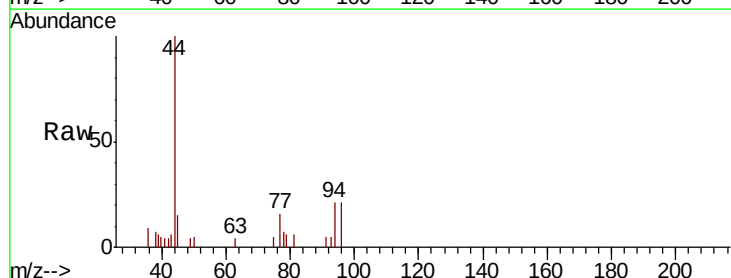
Acq: 27 Jul 2018 17:15

Tgt Ion: 94 Resp: 750

Ion Ratio Lower Upper

94 100

96 98.1 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) (-)

600

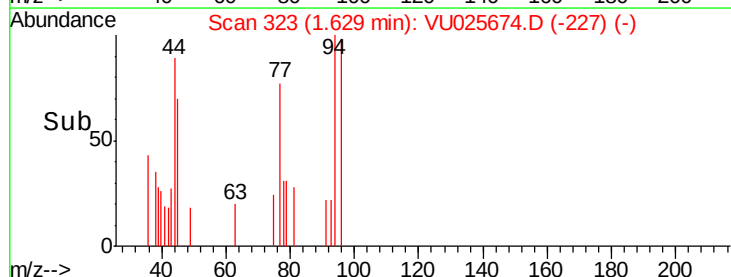
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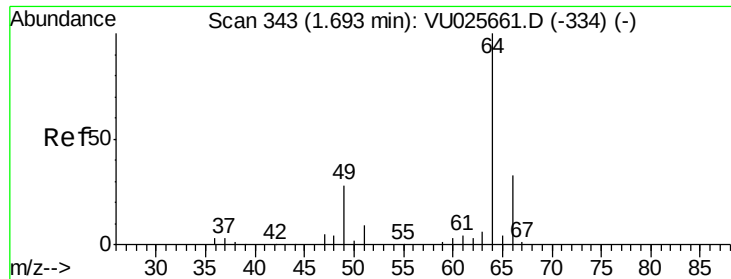
200

0

1.60 1.62 1.64 1.66

Time-->





#6

Chloroethane

Concen: 0.56 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 64 Resp: 755

Ion Ratio Lower Upper

64 100

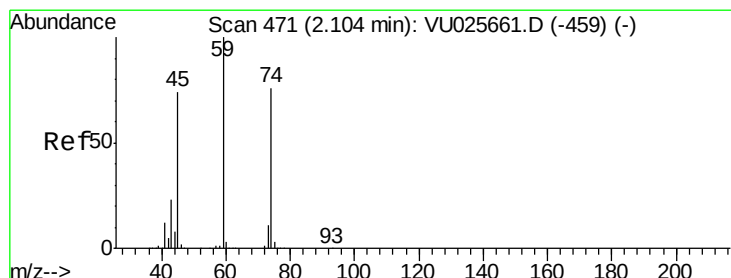
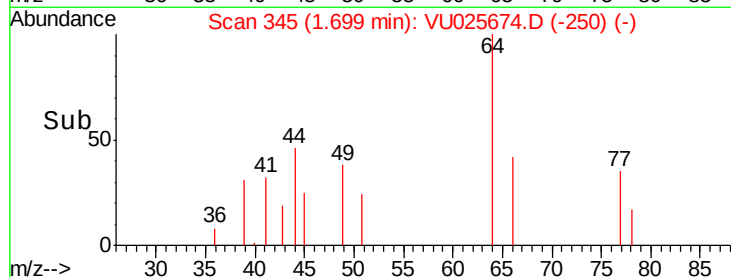
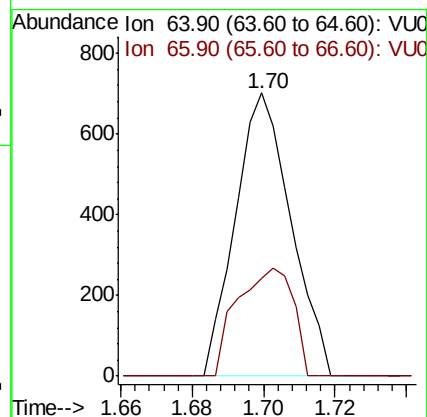
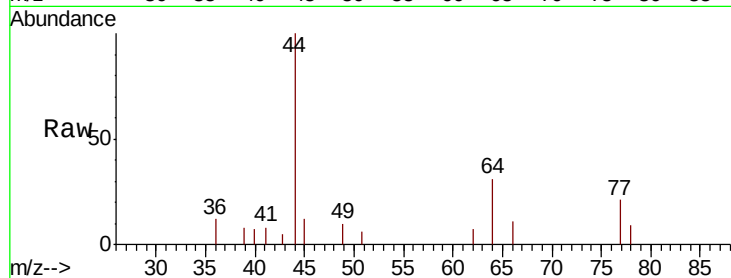
66 34.8 25.0 37.4

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#8

Diethyl Ether

Concen: 0.58 ug/l

RT: 2.10 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU025674.D

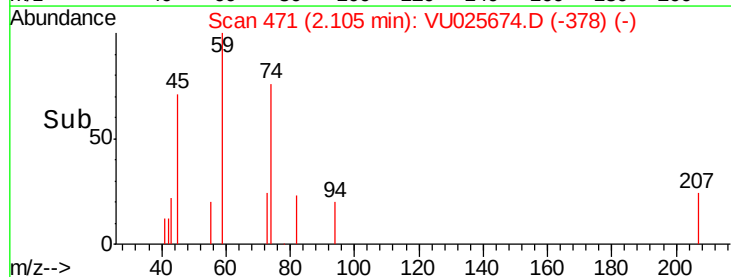
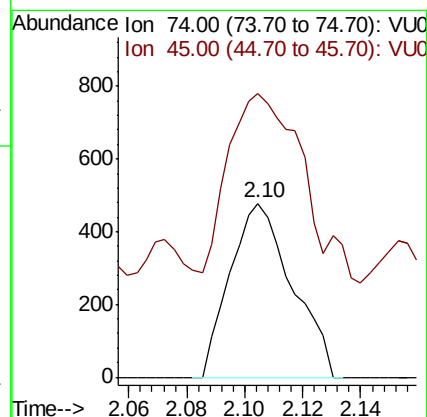
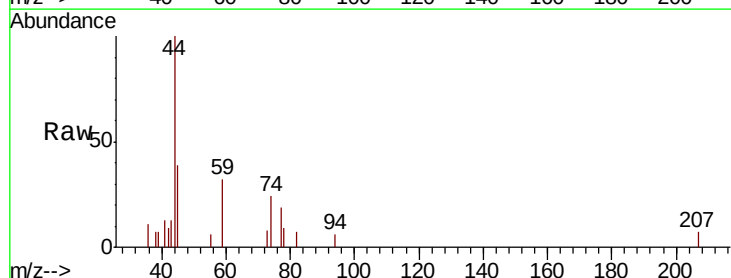
Acq: 27 Jul 2018 17:15

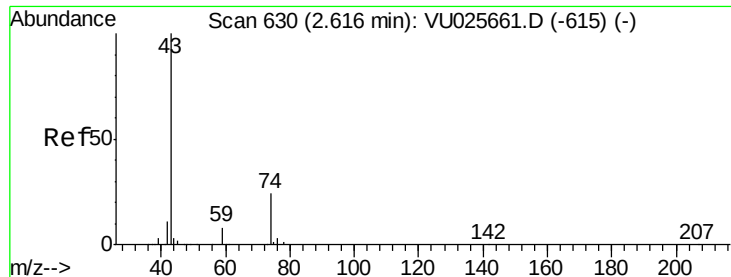
Tgt Ion: 74 Resp: 707

Ion Ratio Lower Upper

74 100

45 131.7 48.3 144.9





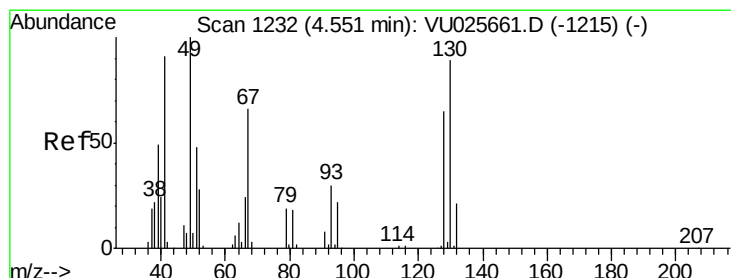
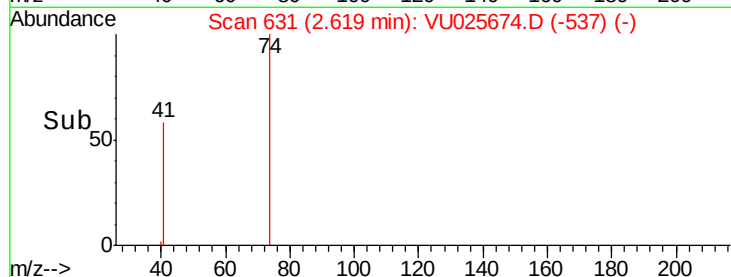
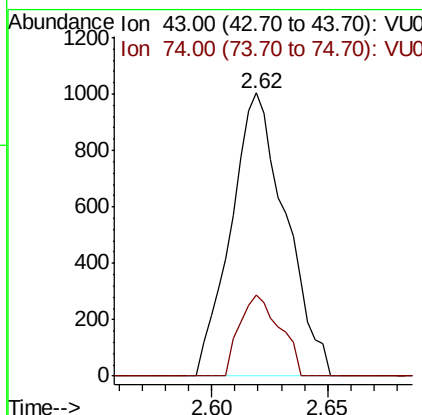
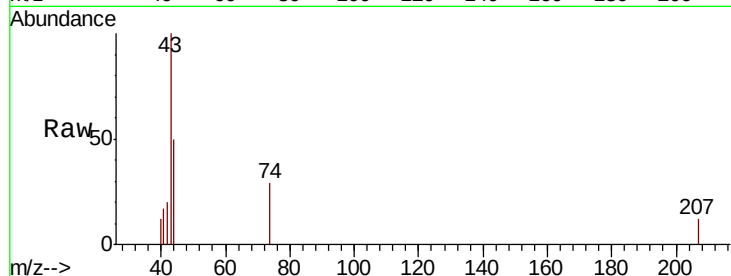
#18
Methyl Acetate
Concen: 0.53 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 1647
Ion Ratio Lower Upper
43 100
74 20.8 18.5 27.7

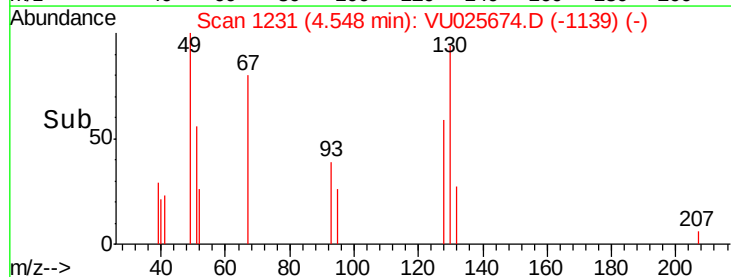
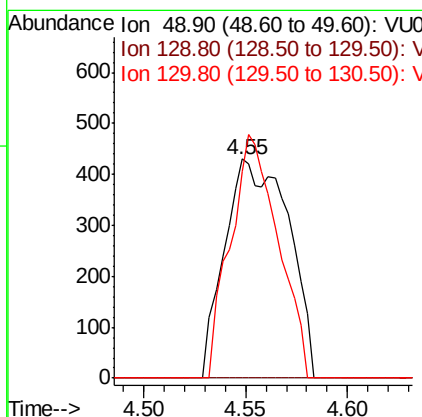
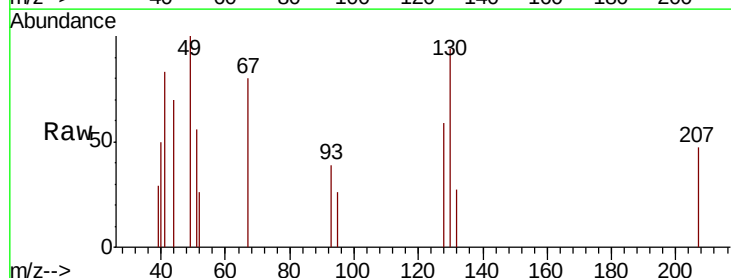
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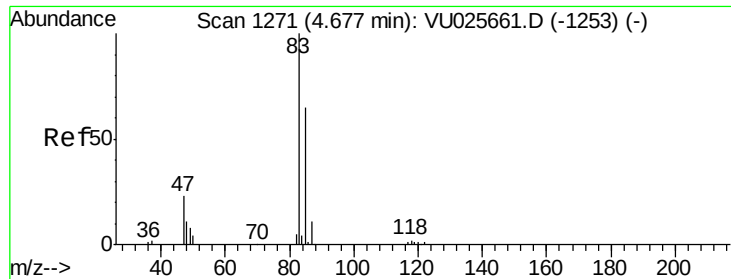
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#28
Bromochloromethane
Concen: 0.54 ug/l m
RT: 4.55 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 49 Resp: 936
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 83.2 68.6 102.8





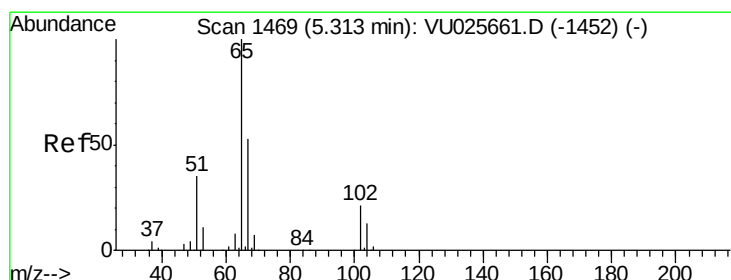
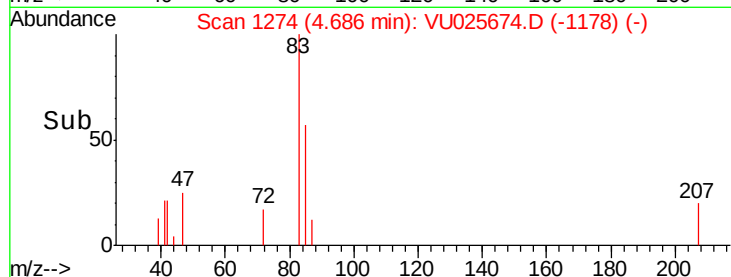
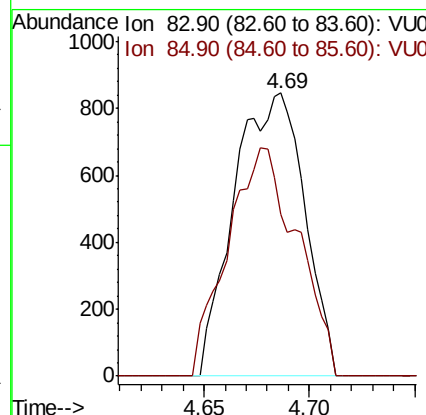
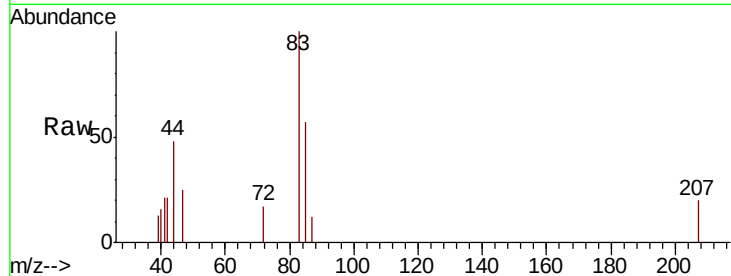
#30
Chloroform
Concen: 0.48 ug/l
RT: 4.69 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 83 Resp: 1959
Ion Ratio Lower Upper
83 100
85 57.2 51.5 77.3

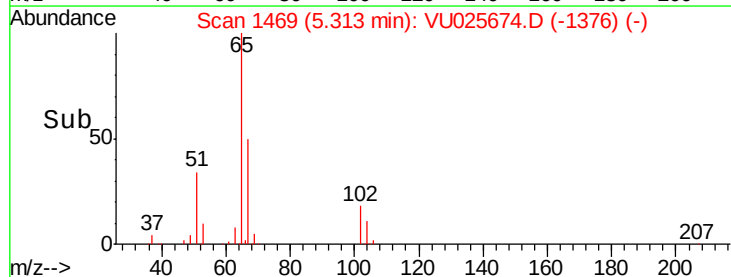
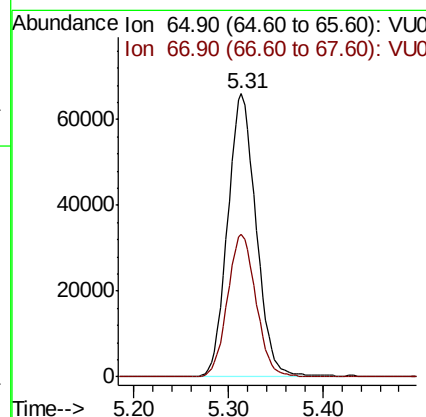
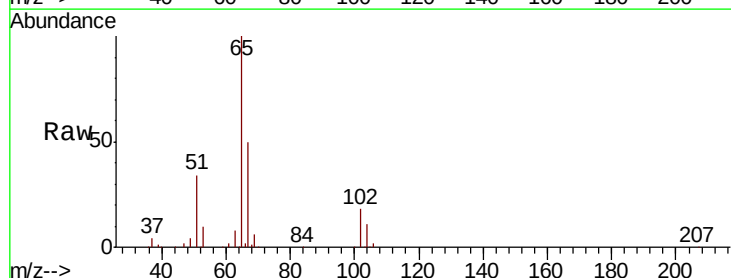
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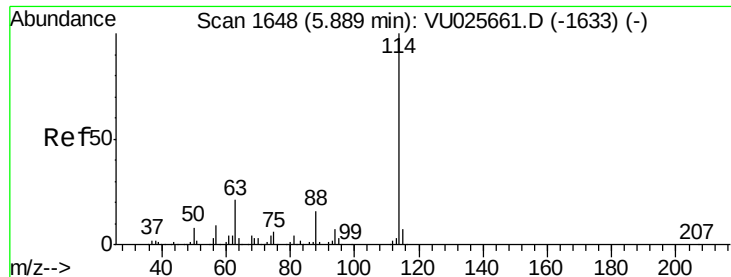
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#33
1,2-Dichloroethane-d4
Concen: 51.94 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 65 Resp: 138244
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.6





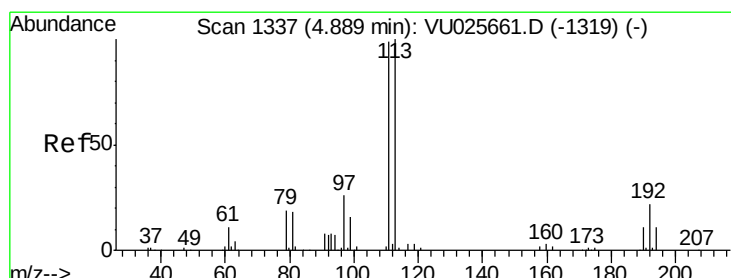
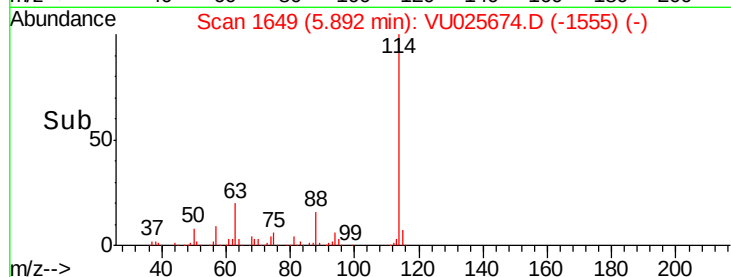
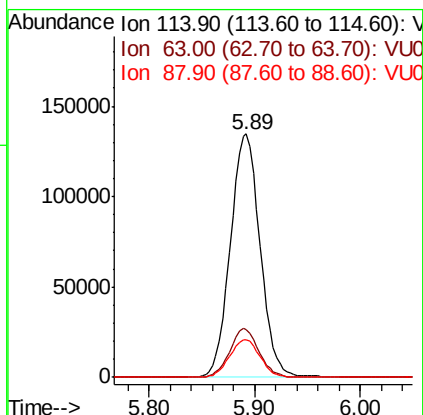
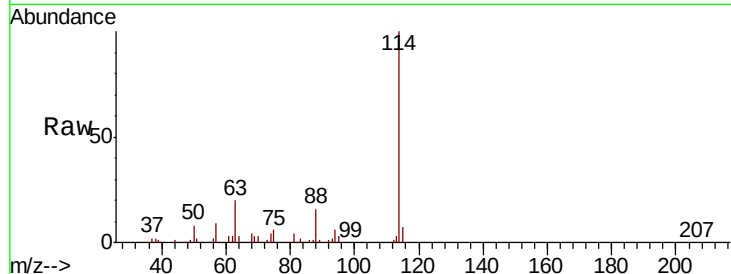
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
114	100	262932		
63	19.7		0.0	41.6
88	15.6		0.0	32.4

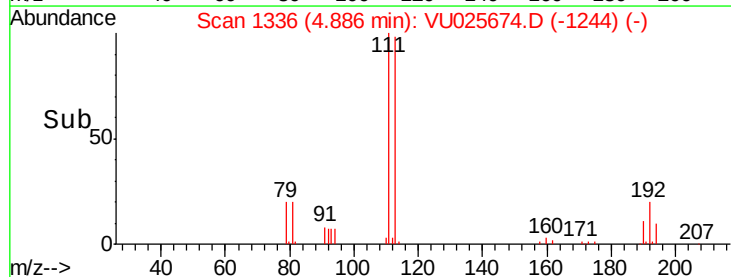
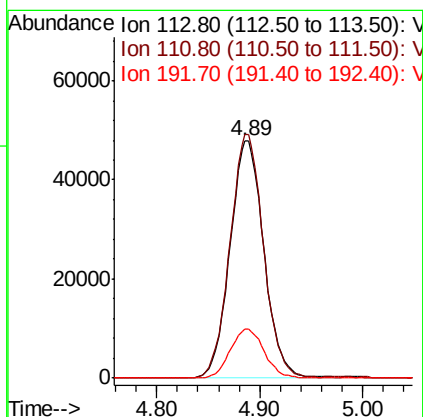
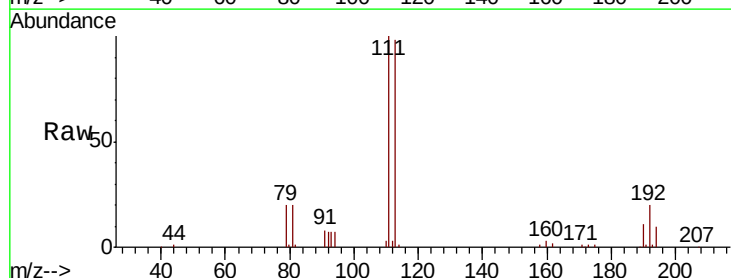
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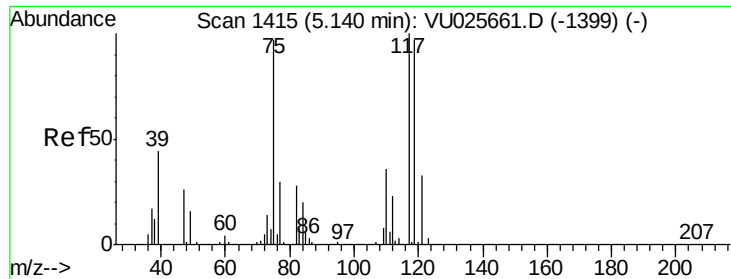
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#35
 Dibromofluoromethane
 Concen: 47.78 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	109267		
111	101.8		81.7	122.5
192	20.7		17.1	25.7





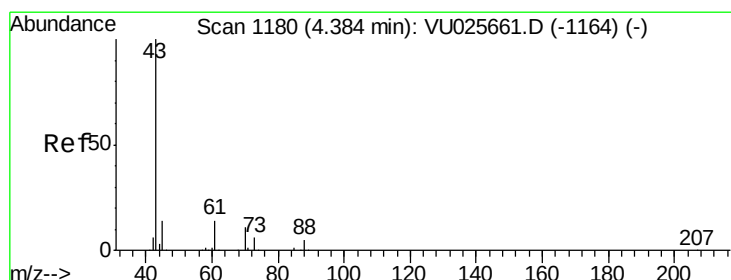
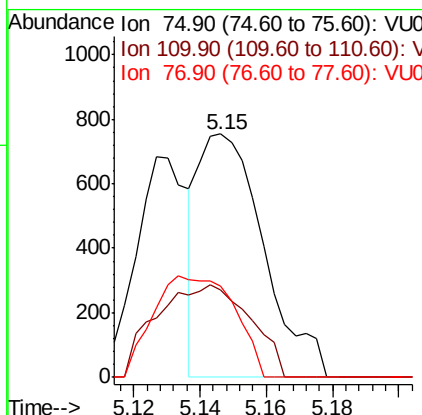
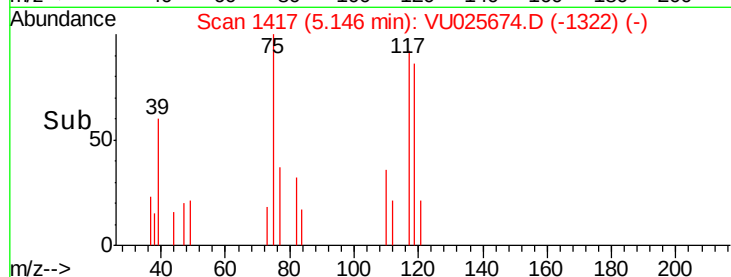
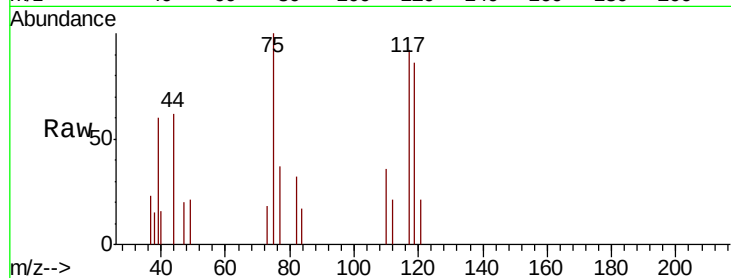
#36
 1,1-Dichloropropene
 Concen: 0.33 ug/l
 RT: 5.15 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
110	54.6	17.6	52.9#
77	0.0	24.4	36.6#

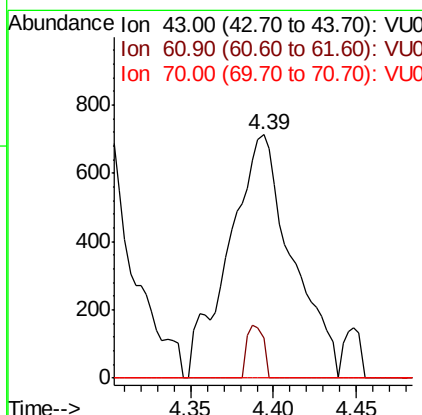
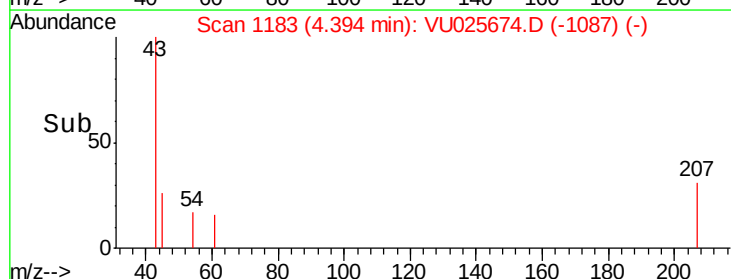
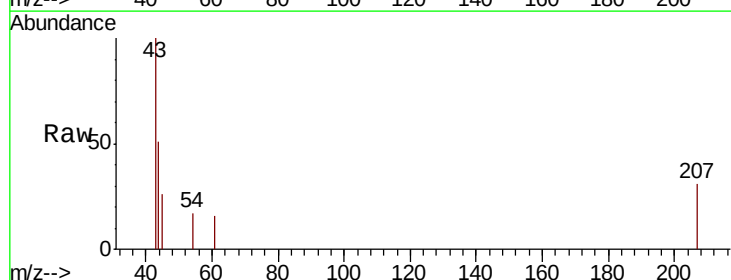
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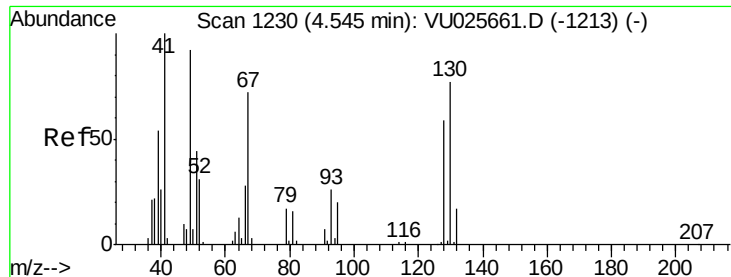
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#37
 Ethyl Acetate
 Concen: 0.59 ug/l
 RT: 4.39 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	5.6	10.7	16.1#
70	0.0	8.4	12.6#





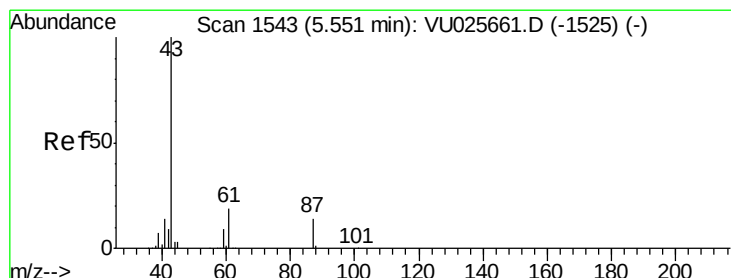
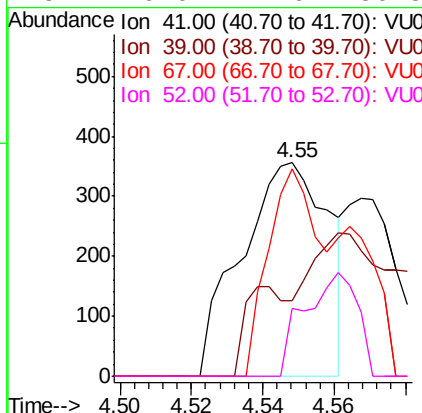
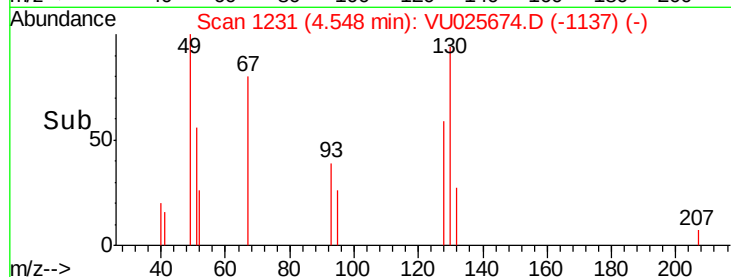
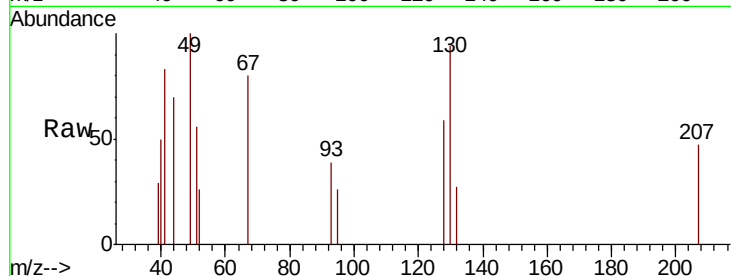
#41
Methacrylonitrile
Concen: 0.34 ug/l
RT: 4.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	17.6	44.4	66.6#
67	56.0	56.0	84.0#
52	0.0	24.6	36.8#

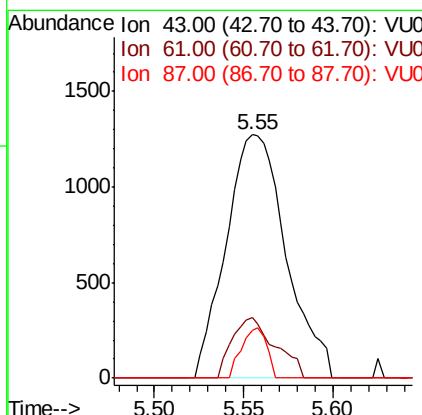
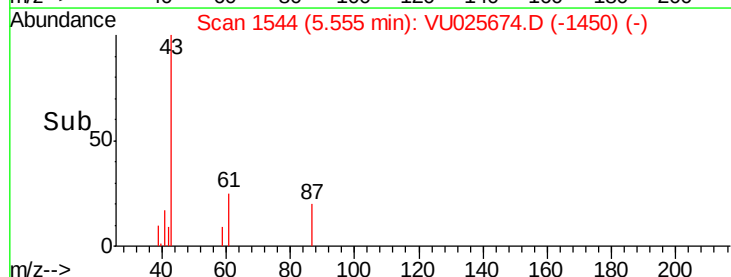
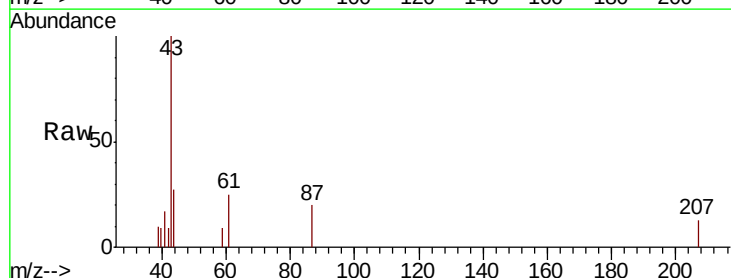
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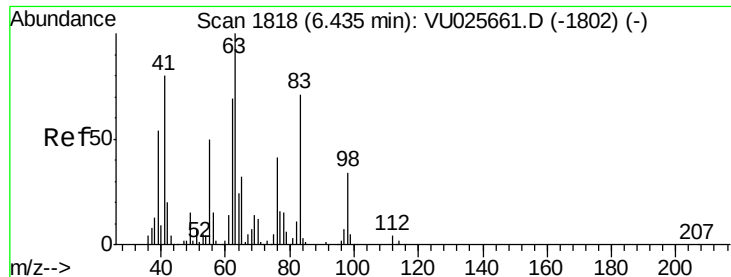
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#43
Isopropyl Acetate
Concen: 0.57 ug/l
RT: 5.55 min Scan# 1544
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.8	15.5	23.3
87	8.5	10.6	16.0#





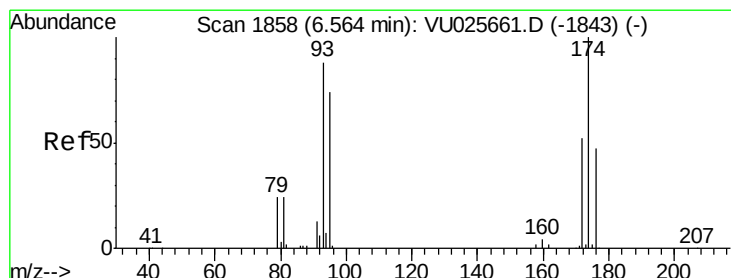
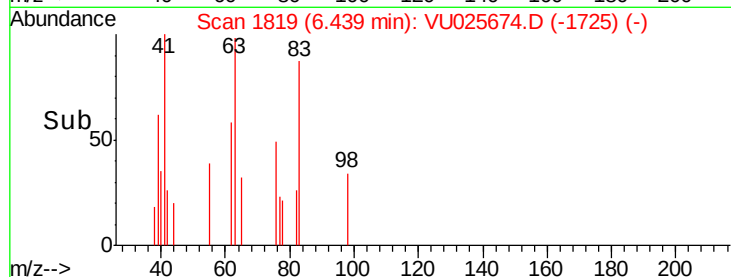
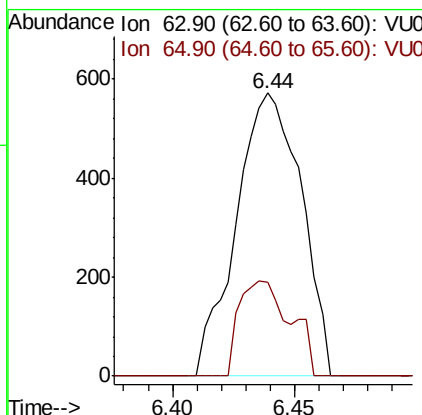
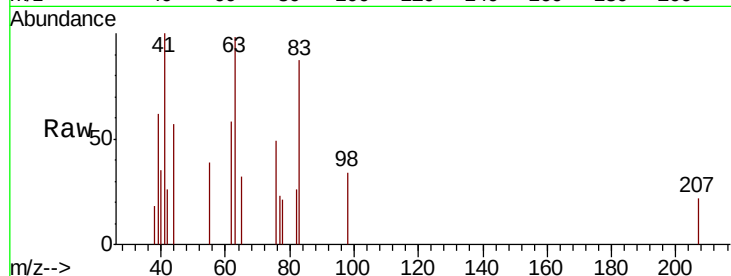
#45
 1,2-Dichloropropane
 Concen: 0.45 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

Tot Ion: 63 Resp: 1057
 Ion Ratio Lower Upper
 63 100
 65 33.2 26.1 39.1

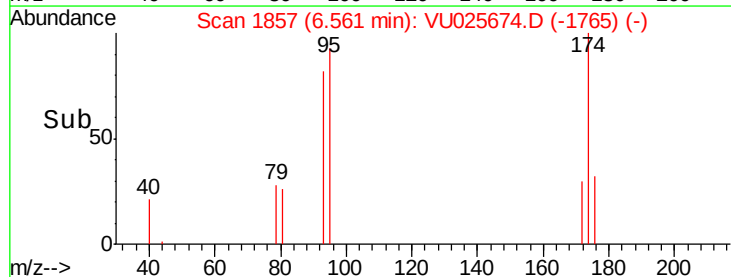
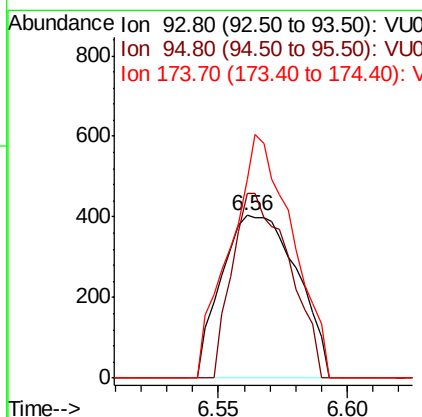
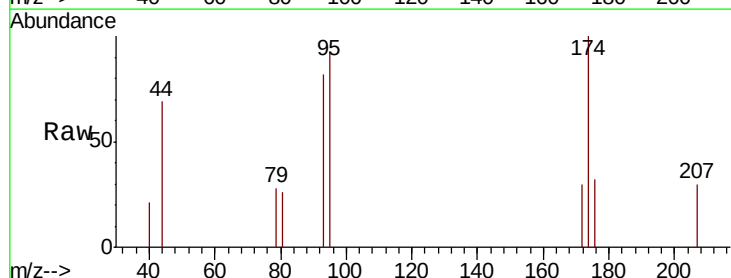
Manual Integrations
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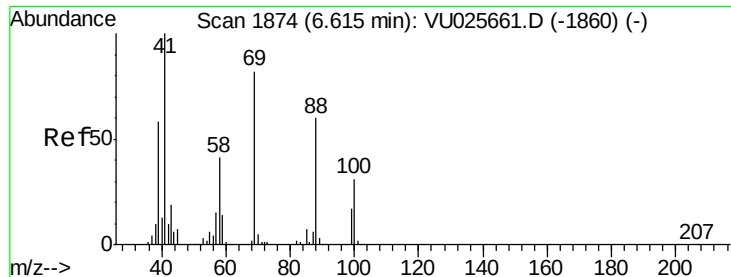
MMDadoda
 7/31/2018 3:49:26 PM



#46
 Dibromomethane
 Concen: 0.49 ug/l
 RT: 6.56 min Scan# 1857
 Delta R.T. -0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion: 93 Resp: 824
 Ion Ratio Lower Upper
 93 100
 95 85.7 66.6 100.0
 174 122.9 85.8 128.8





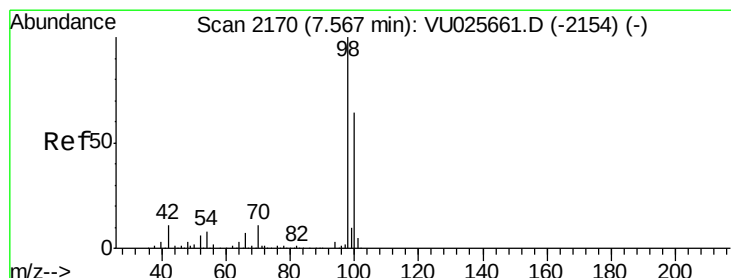
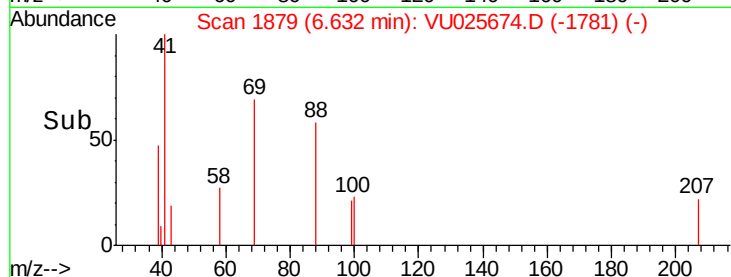
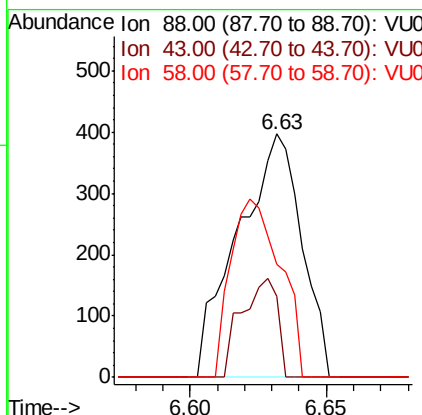
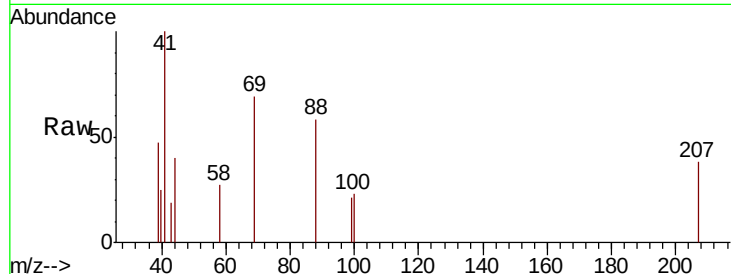
#49
1,4-Dioxane
Concen: 10.27 ug/l
RT: 6.63 min Scan# 1879
Delta R.T. 0.02 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	22.6	27.3	40.9#
58	56.9	57.6	86.4#

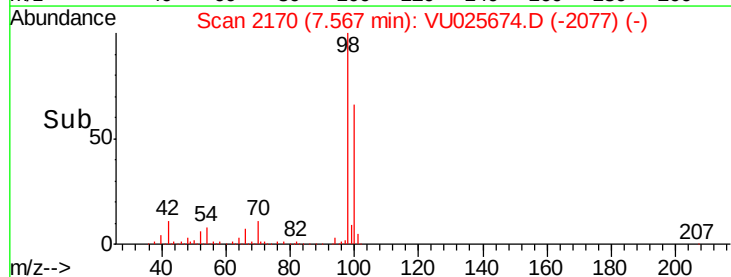
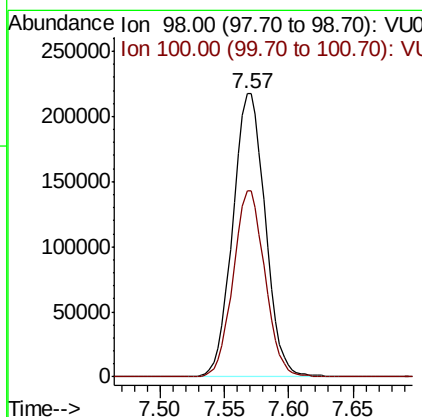
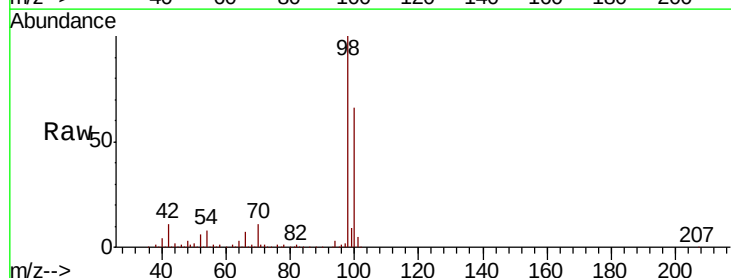
Manual Integrations
APPROVED

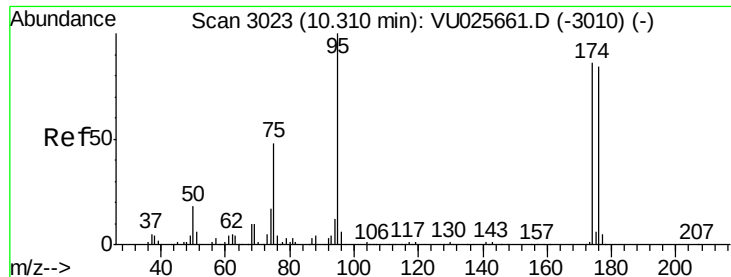
MMDadoda
7/31/2018 3:49:26 PM



#50
Toluene-d8
Concen: 47.58 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.1	76.7





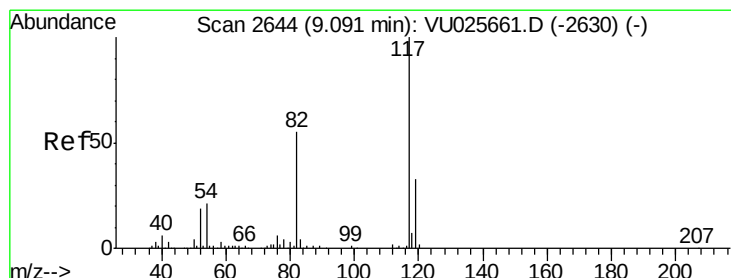
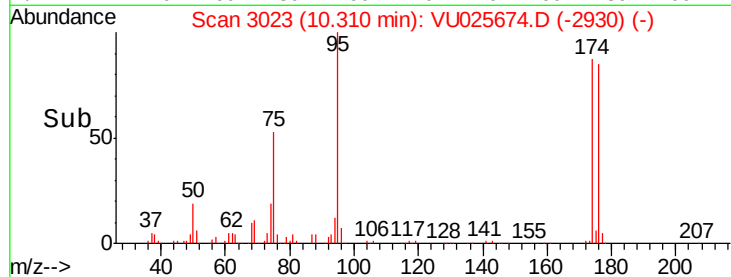
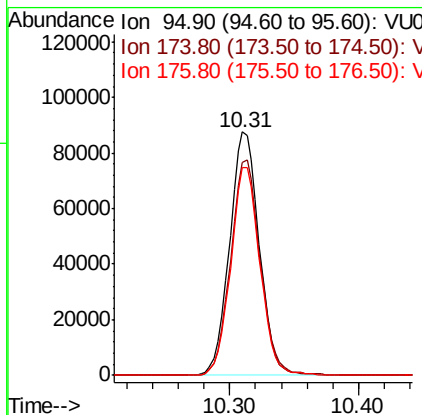
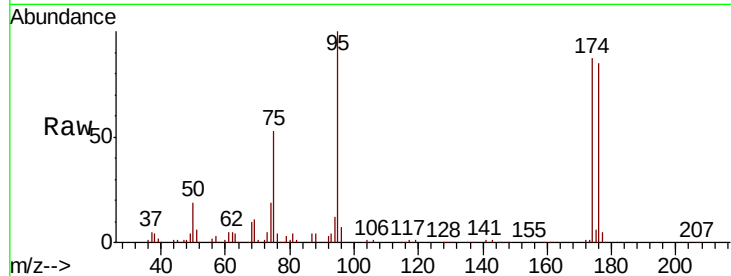
#62
4-Bromofluorobenzene
Concen: 45.03 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
95	100	139853		
174	88.5	0.0	172.2	
176	84.2	0.0	162.6	

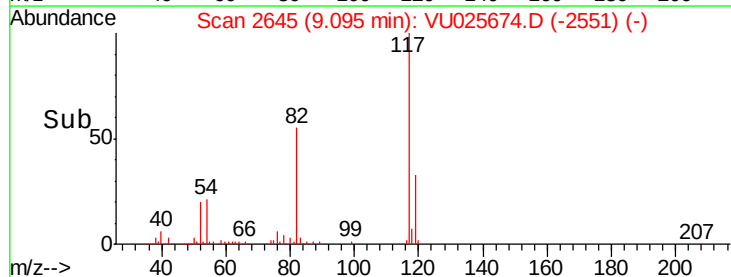
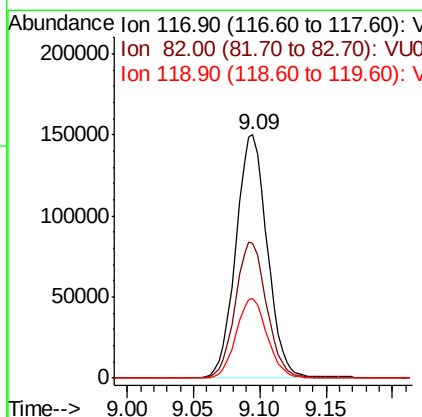
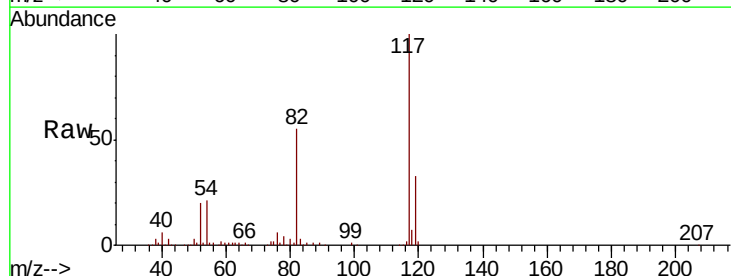
Manual Integrations
APPROVED

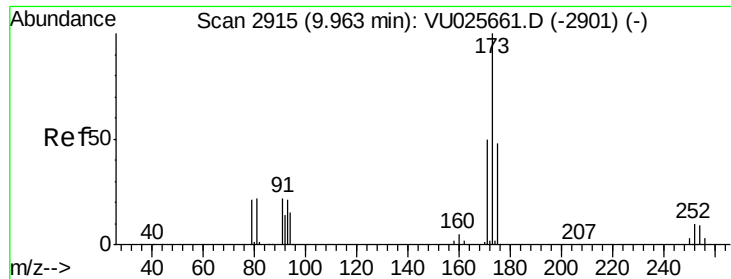
MMDadoda
7/31/2018 3:49:26 PM



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	247903		
82	55.5	46.0	69.0	
119	32.6	26.0	39.0	





#71

Bromoform

Concen: 0.37 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

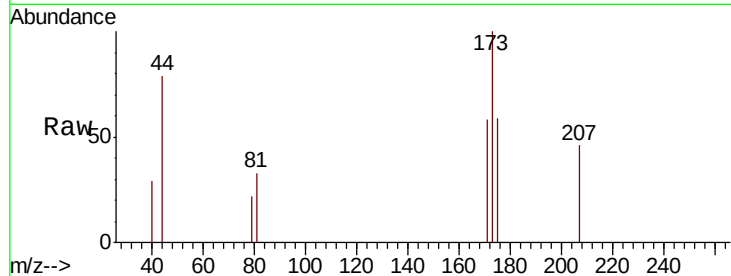
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.8	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:49:26 PM

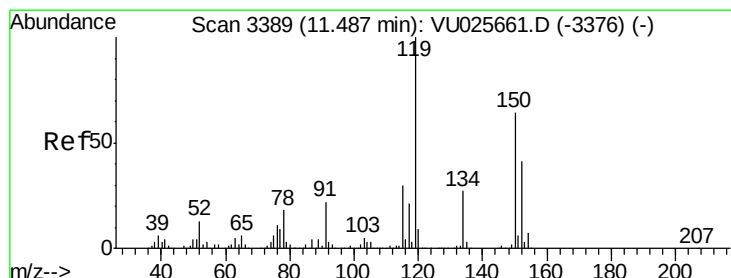
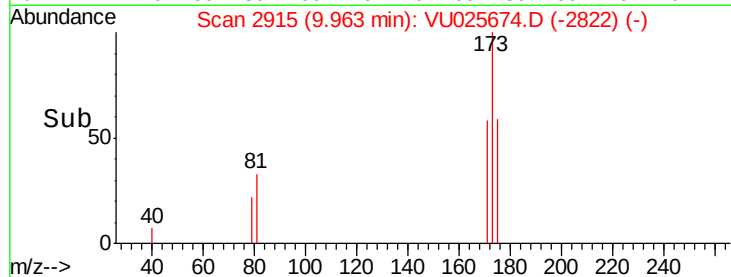
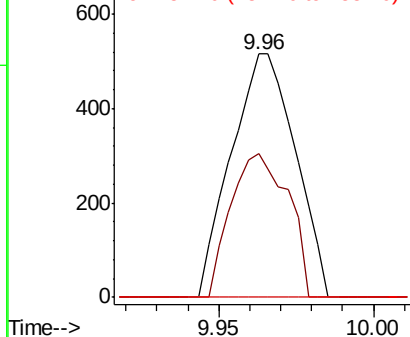


Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

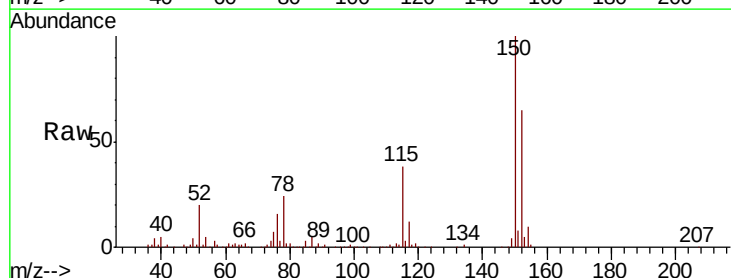
RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	40.1	120.3
150	154.0	0.0	351.4

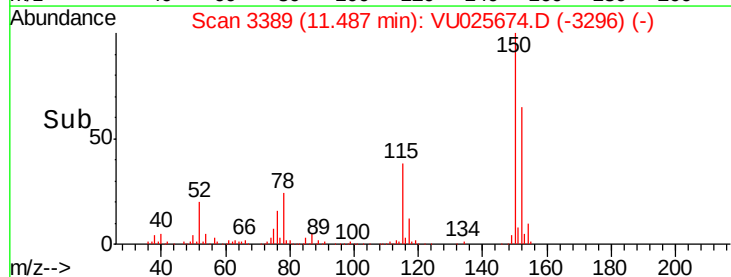
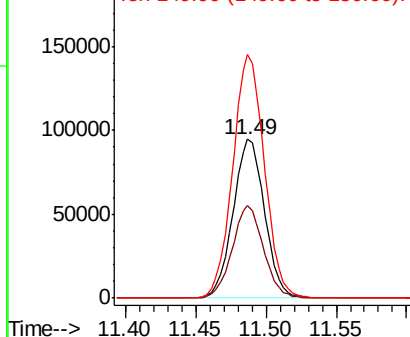


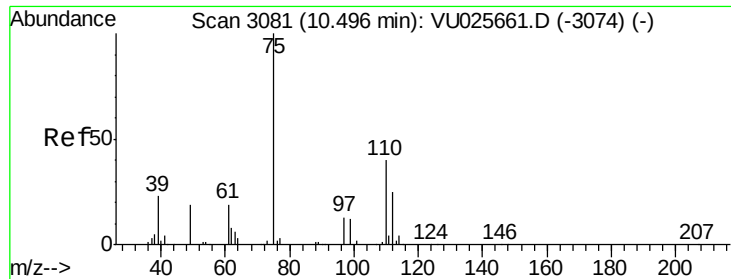
Abundance

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





#76

1,2,3-Trichloropropane

Concen: 0.49 ug/l m

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 75 Resp: 1583

Ion Ratio Lower Upper

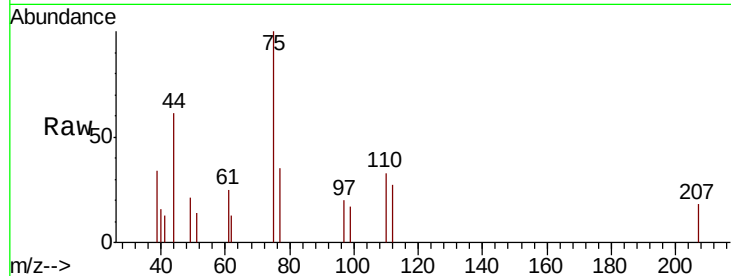
75 100

77 40.9 20.4 61.3

Manual Integrations
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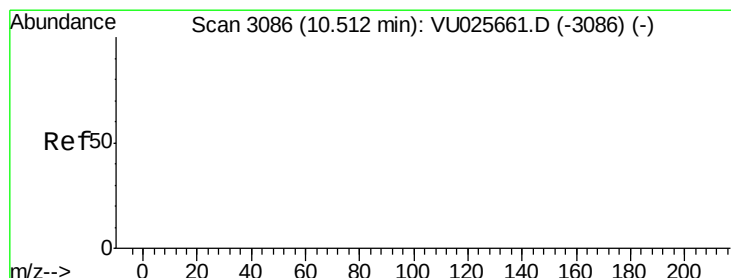
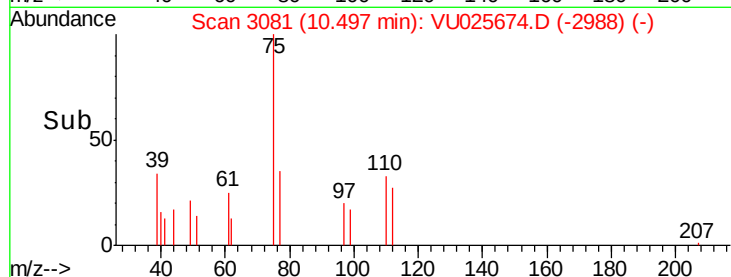
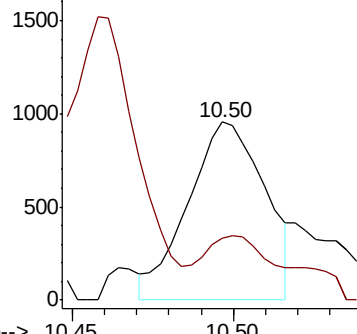
MMDadoda

7/31/2018 3:49:26 PM



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 0.38 ug/l m

RT: 10.52 min Scan# 3087

Delta R.T. 0.02 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

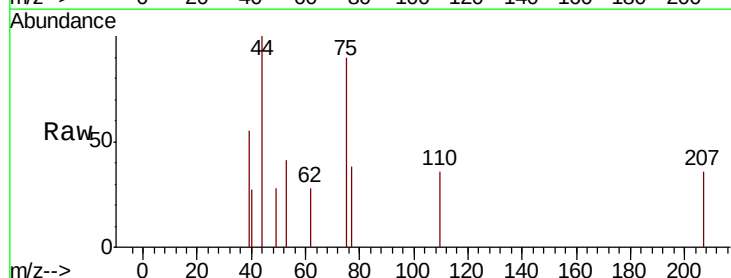
Tgt Ion: 75 Resp: 455

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

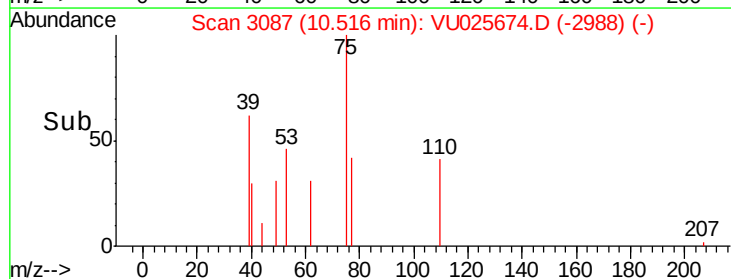
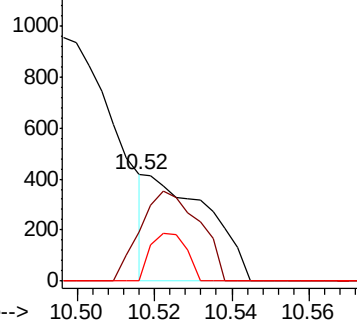
89 0.0 0.0 0.0

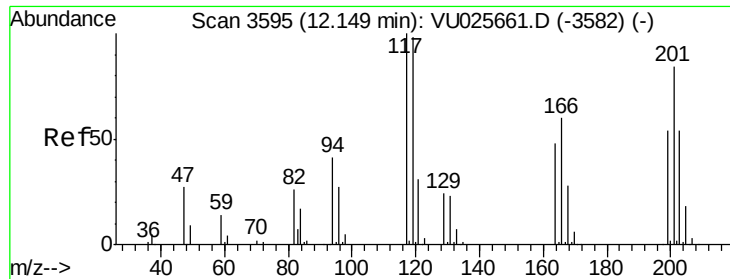


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#90

Hexachloroethane

Concen: 0.43 ug/l

RT: 12.15 min Scan# 3595

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 117 Resp: 715

Ion Ratio Lower Upper

117 100

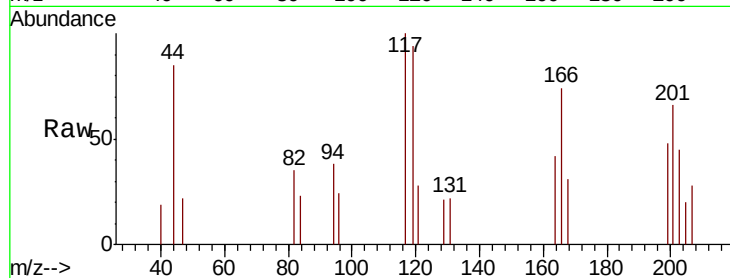
201 84.6 42.5 127.6

Manual Integrations

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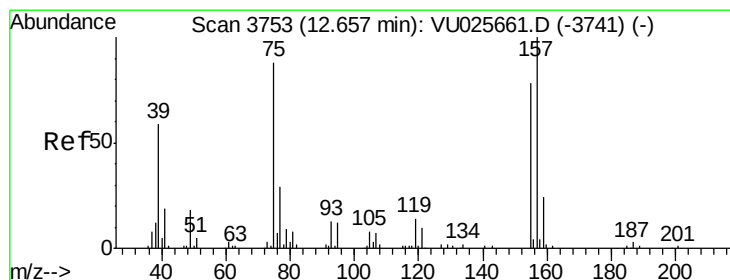
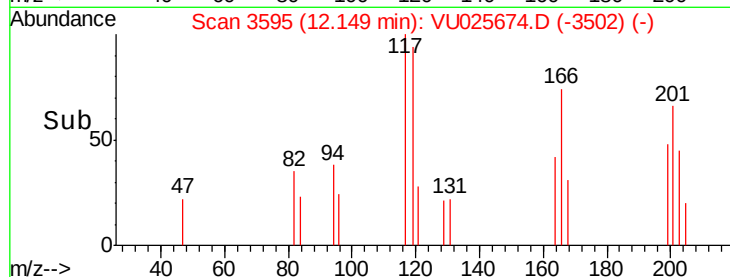
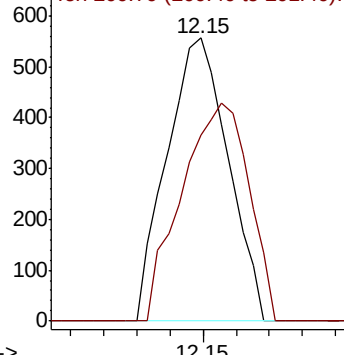
MMDadoda

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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: 0.51 ug/l

RT: 12.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

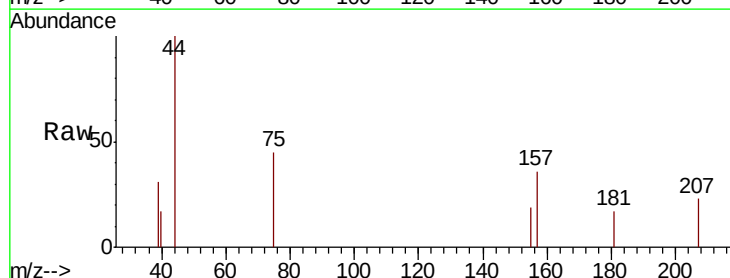
Tgt Ion: 75 Resp: 422

Ion Ratio Lower Upper

75 100

155 51.2 44.5 133.3

157 102.6 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

