

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025335.D
 Acq On : 12 Jul 2018 13:06
 Operator : MD/SY
 Sample : J3762-09 MDL 0.2PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

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

Manual Integrations
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 7/13/2018 11:44:09 AM

Quant Time: Jul 13 03:50:15 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	161235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	243021	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	219230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	107954	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	112721	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	
35) Dibromofluoromethane	4.89	113	87758	42.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.62%	
50) Toluene-d8	7.57	98	285348	40.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.30%	
62) 4-Bromofluorobenzene	10.31	95	107016	37.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.72%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	670	0.962	ug/l	91
5) Bromomethane	1.63	94	581	Below Cal		90
15) Acrylonitrile	2.94	53	1126	1.002	ug/l #	96
16) Acetone	2.33	43	1973	6.381	ug/l	89
17) Carbon Disulfide	2.48	76	1268	2.186	ug/l #	74
19) Methyl tert-butyl Ether	3.00	73	1313	0.211	ug/l #	91
20) Methylene Chloride	2.71	84	944	1.172	ug/l #	78
23) Vinyl Acetate	3.55	43	4753	0.895	ug/l	95
25) 2-Butanone	4.29	43	1210	0.697	ug/l	90
29) Tetrahydrofuran	4.64	42	1290m	1.239	ug/l	
30) Chloroform	4.69	83	796m	0.220	ug/l	
31) Cyclohexane	4.99	56	3596	1.863	ug/l #	3
36) 1,1-Dichloropropene	5.14	75	542	0.201	ug/l #	48
51) 4-Methyl-2-Pentanone	7.47	43	2704	0.862	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.15	63	1655	12.117	ug/l #	68
59) 2-Hexanone	8.37	43	2212	0.870	ug/l	80
68) m/p-Xylenes	9.38	106	1230	0.341	ug/l	95
79) 2-Chlorotoluene	10.66	91	1109	0.355	ug/l	83
83) tert-Butylbenzene	11.10	119	1408	0.201	ug/l	90
88) 1,4-Dichlorobenzene	11.52	146	848	1.706	ug/l #	25
91) 1,2-Dichlorobenzene	11.89	146	783	0.201	ug/l #	27

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

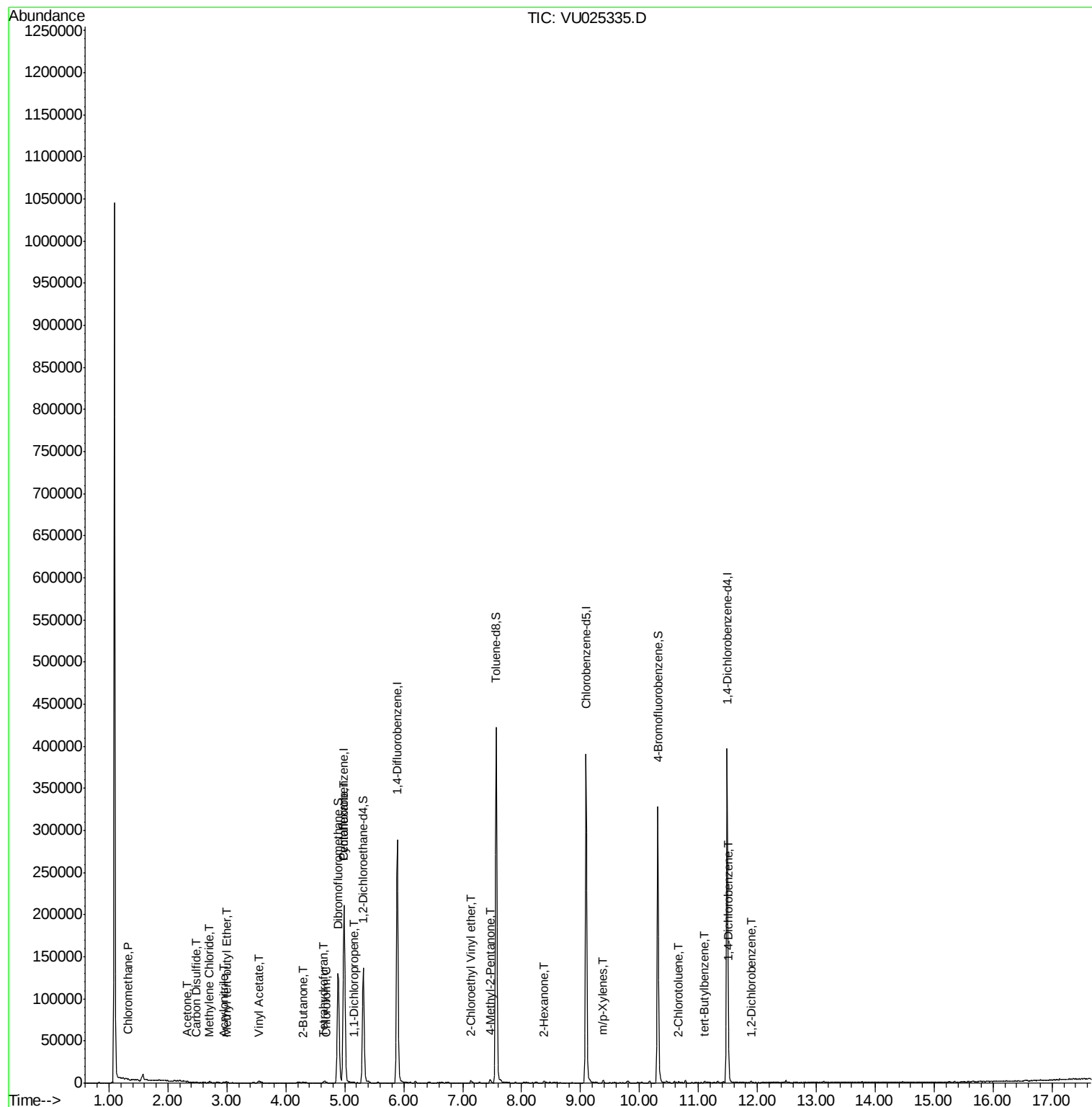
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
Data File : VU025335.D
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Operator : MD/SY
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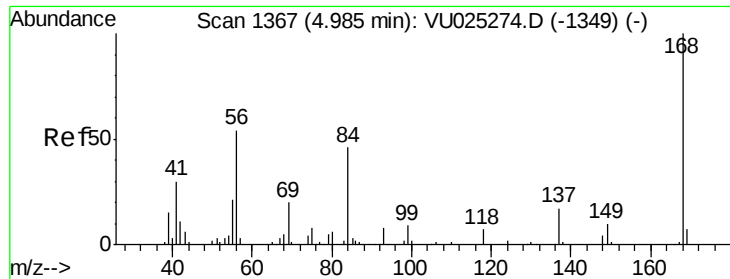
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

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Quant Time: Jul 13 03:50:15 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: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 161235

Ion Ratio Lower Upper

168 100

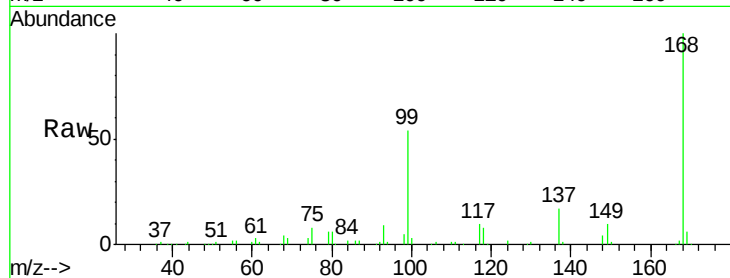
99 54.1 42.8 64.2

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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

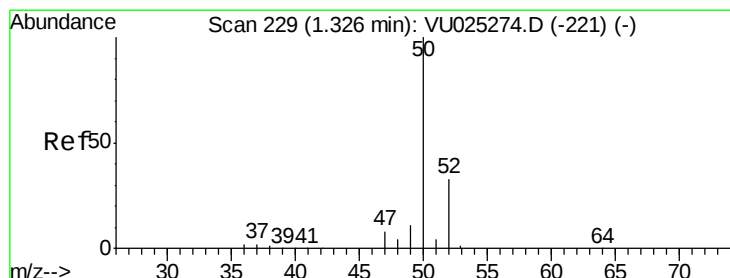
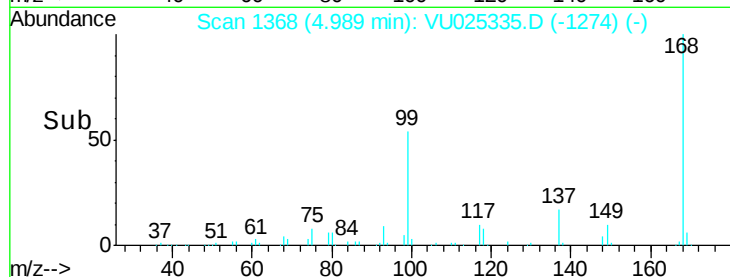
40000

20000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: 0.962 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025335.D

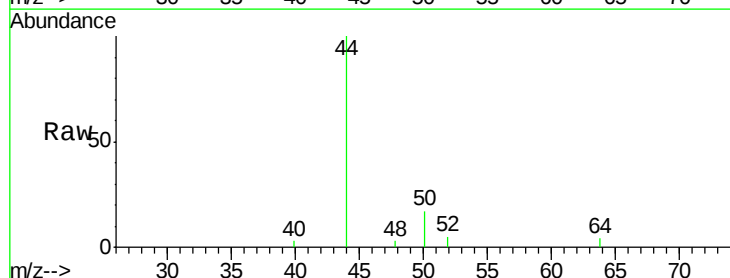
Acq: 12 Jul 2018 13:06

Tgt Ion: 50 Resp: 670

Ion Ratio Lower Upper

50 100

52 28.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

600

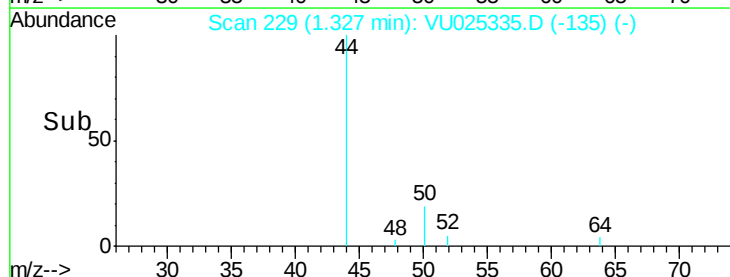
400

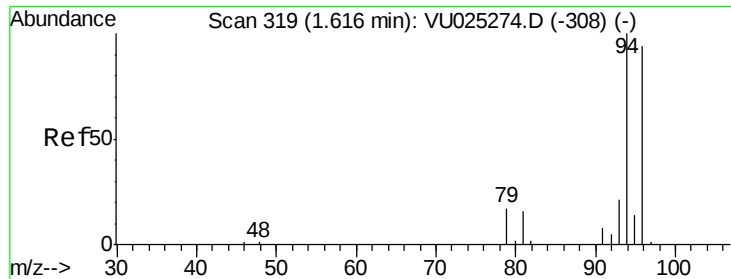
200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 581

Ion Ratio Lower Upper

94 100

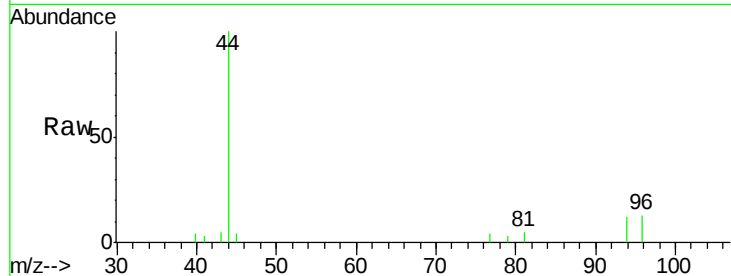
96 103.1 75.0 112.4

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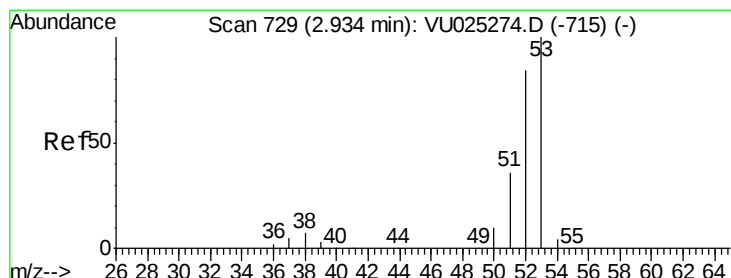
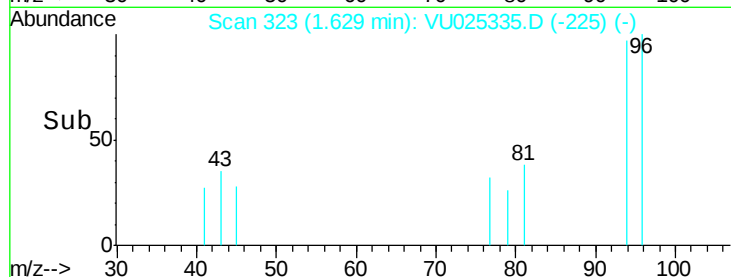
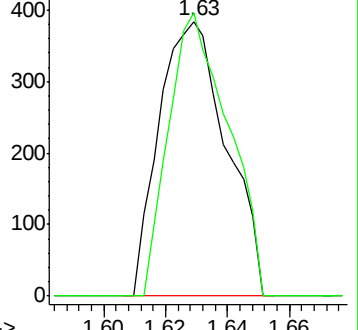
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#15

Acrylonitrile

Concen: 1.002 ug/l

RT: 2.94 min Scan# 732

Delta R.T. 0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

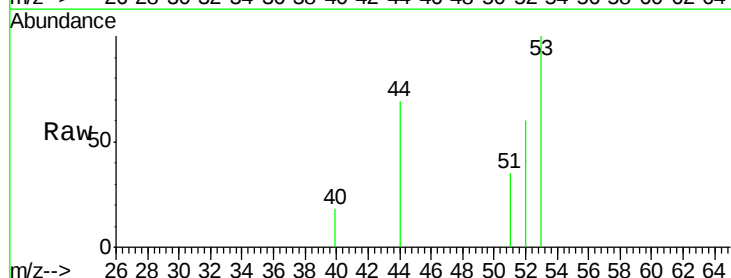
Tgt Ion: 53 Resp: 1126

Ion Ratio Lower Upper

53 100

52 83.4 66.6 99.8

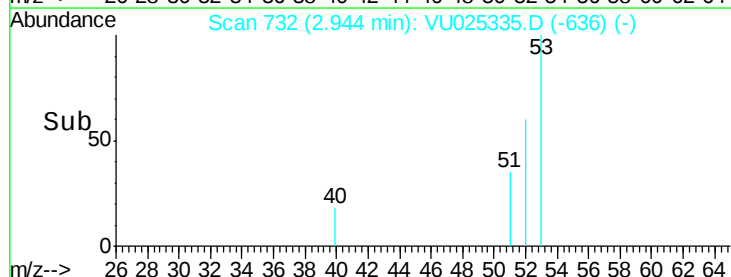
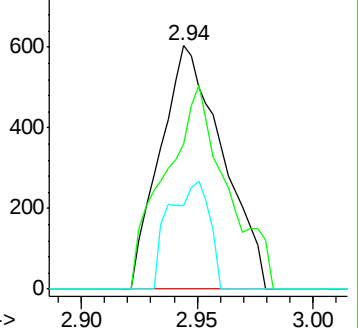
51 28.9 29.4 44.2#

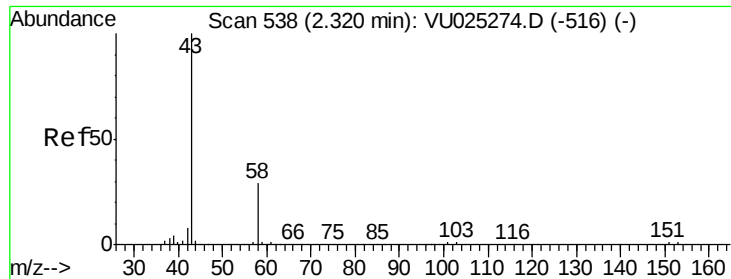


Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0





#16

Acetone

Concen: 6.381 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 1973

Ion Ratio Lower Upper

43 100

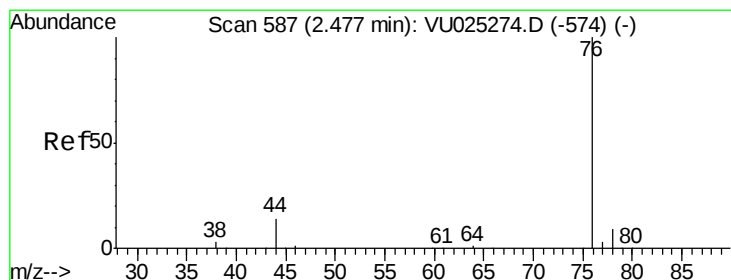
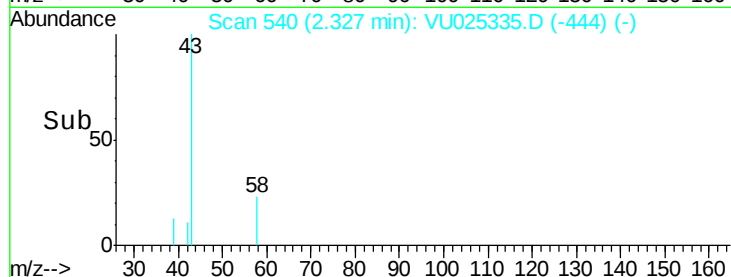
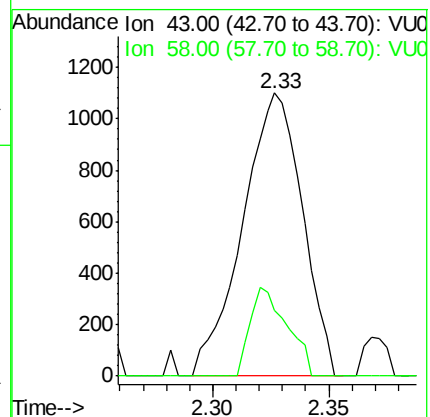
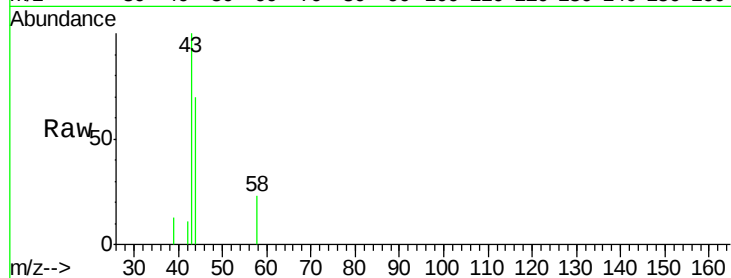
58 23.3 23.1 34.7

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#17

Carbon Disulfide

Concen: 2.186 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025335.D

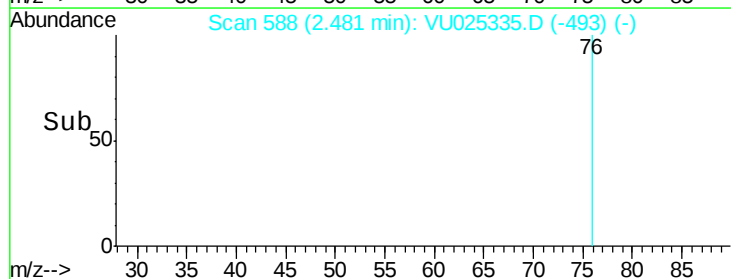
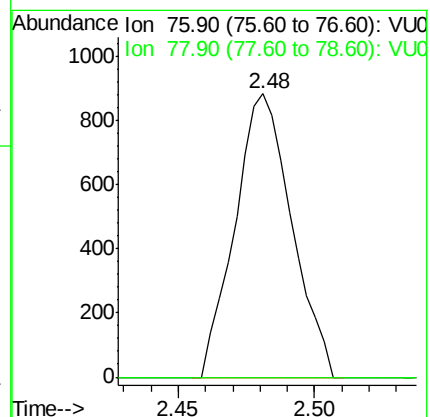
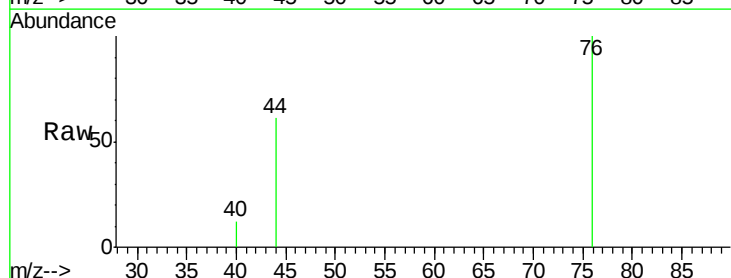
Acq: 12 Jul 2018 13:06

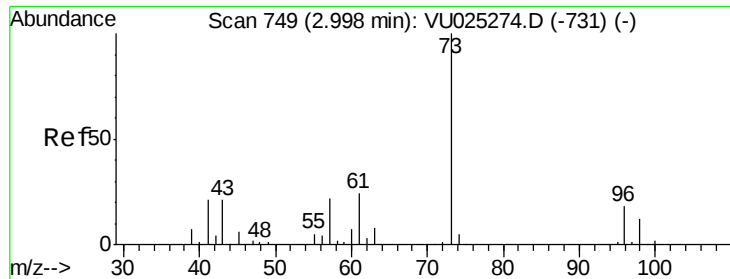
Tgt Ion: 76 Resp: 1268

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#





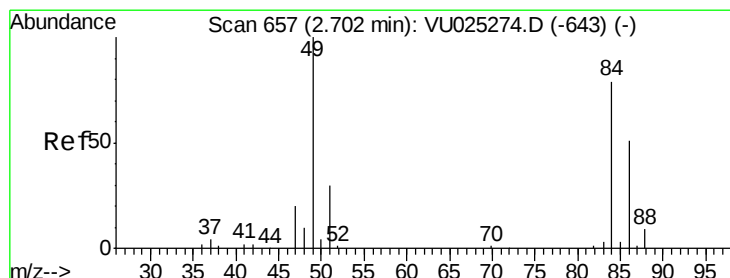
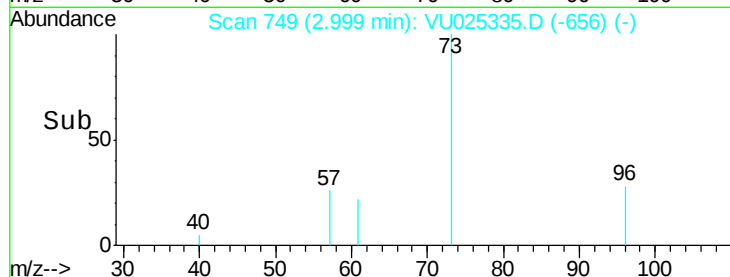
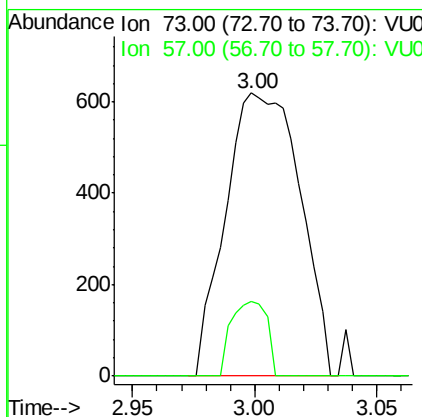
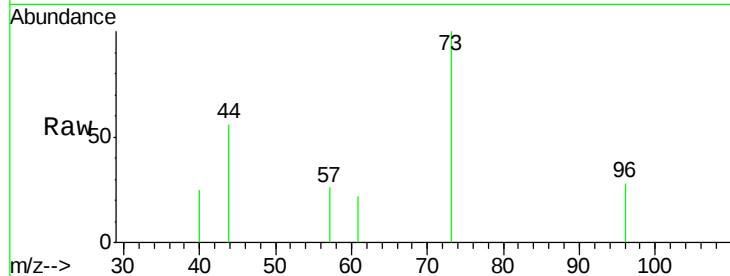
#19
Methyl tert-butyl Ether
Concen: 0.211 ug/l
RT: 3.00 min Scan# 749
Delta R.T. 0.00 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

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

Tot Ion: 73 Resp: 1313
Ion Ratio Lower Upper
73 100
57 26.2 17.4 26.2#

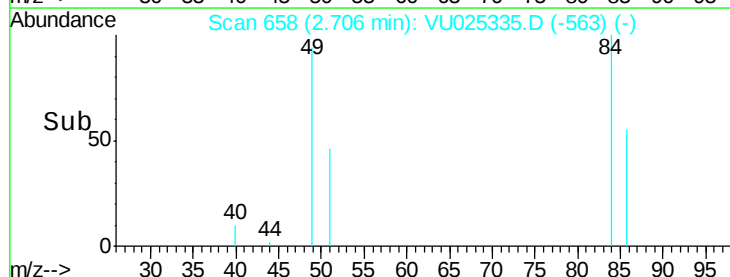
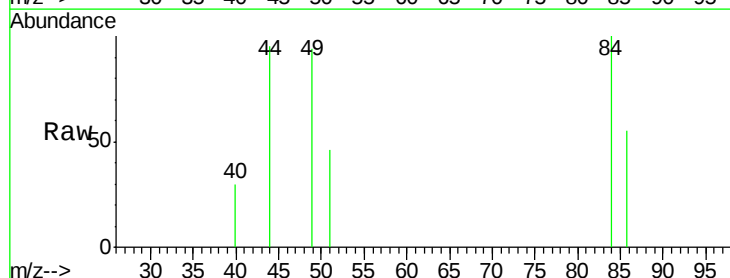
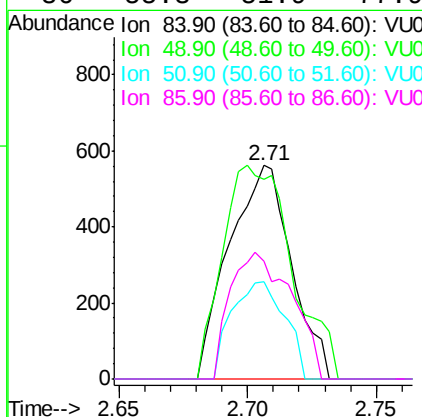
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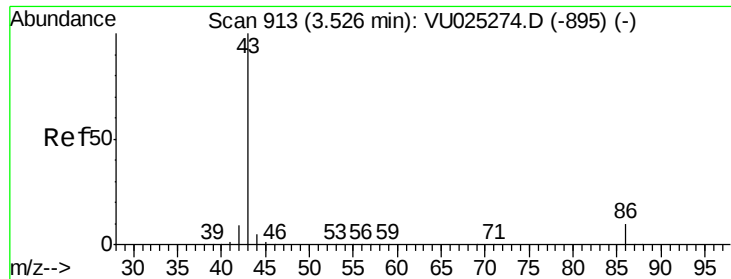
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#20
Methylene Chloride
Concen: 1.172 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

Tgt Ion: 84 Resp: 944
Ion Ratio Lower Upper
84 100
49 93.6 101.8 152.6#
51 45.7 30.8 46.2
86 55.3 51.9 77.9





#23

Vinyl Acetate

Concen: 0.895 ug/l

RT: 3.55 min Scan# 919

Delta R.T. 0.02 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 4753

Ion Ratio Lower Upper

43 100

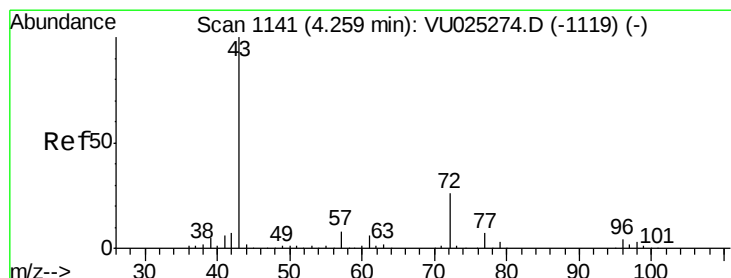
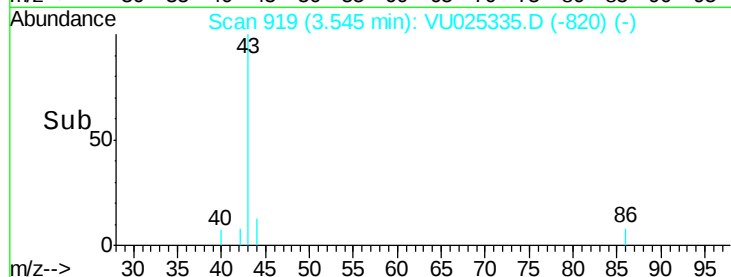
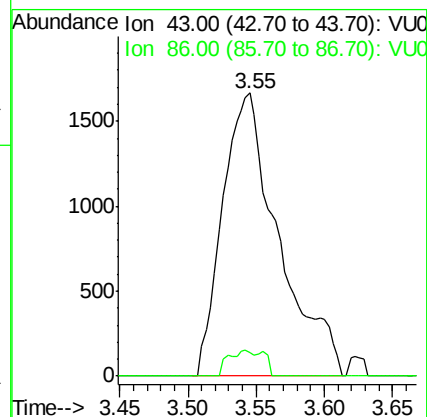
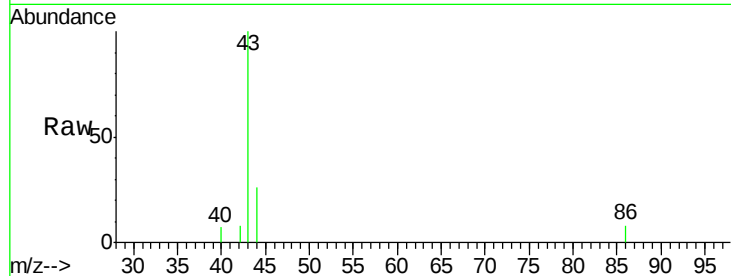
86 8.2 8.2 12.2

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#25

2-Butanone

Concen: 0.697 ug/l

RT: 4.29 min Scan# 1150

Delta R.T. 0.03 min

Lab File: VU025335.D

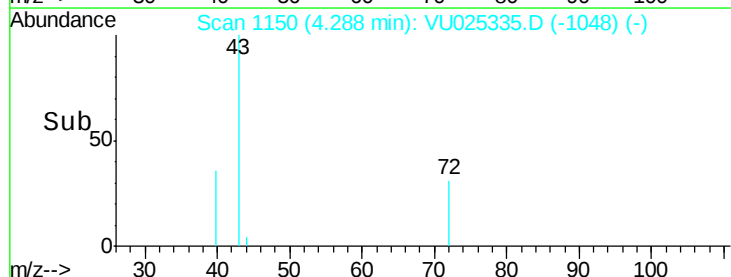
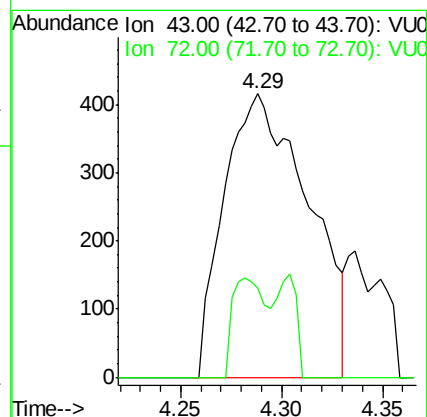
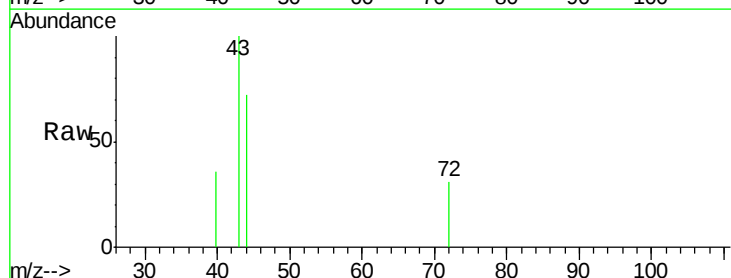
Acq: 12 Jul 2018 13:06

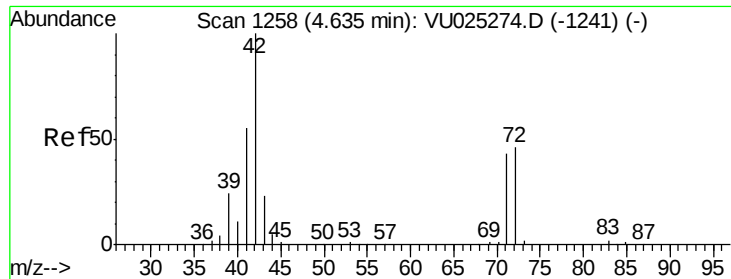
Tgt Ion: 43 Resp: 1210

Ion Ratio Lower Upper

43 100

72 31.3 21.0 31.4





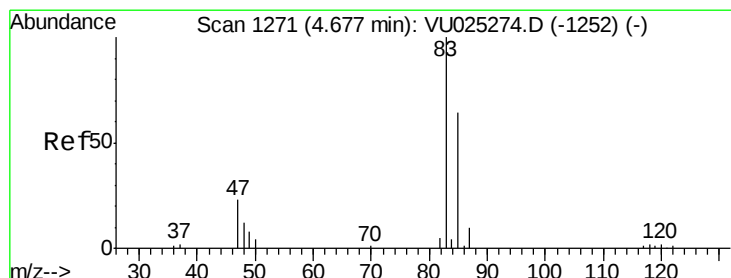
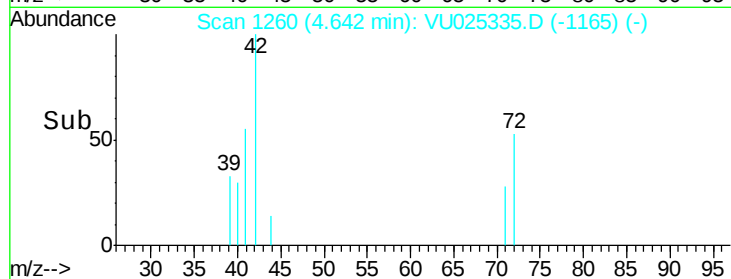
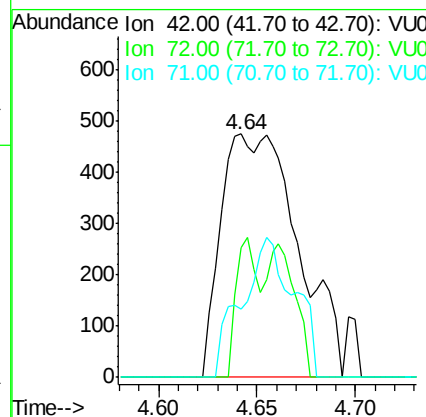
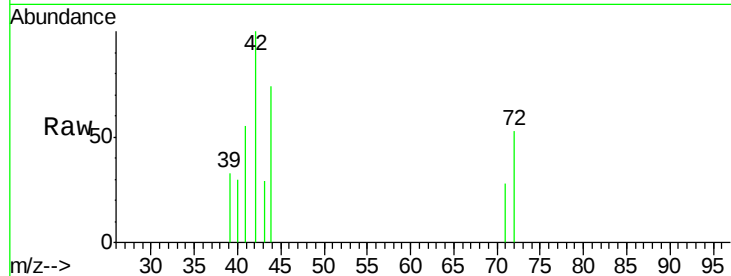
#29
Tetrahydrofuran
Concen: 1.239 ug/l m
RT: 4.64 min Scan# 1260
Delta R.T. 0.01 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	15.9	36.7	55.1#
71	0.0	33.9	50.9#

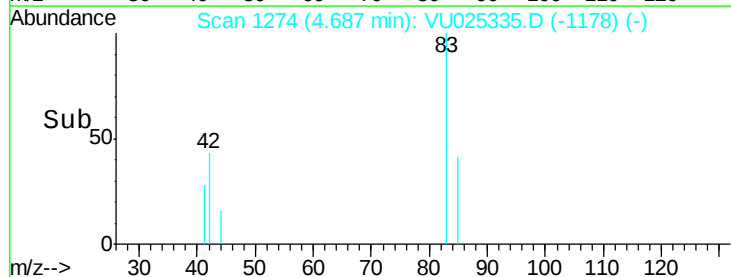
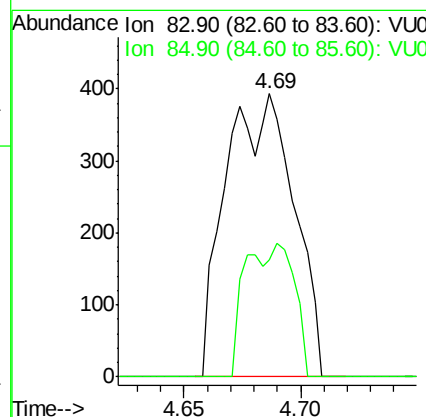
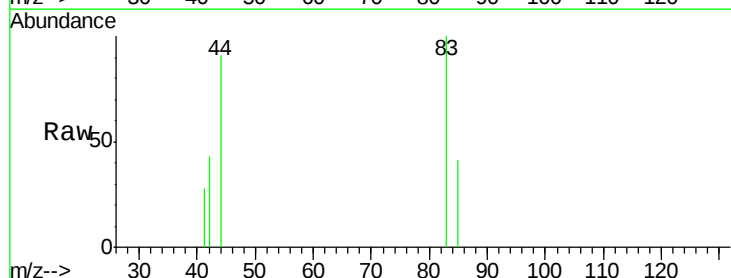
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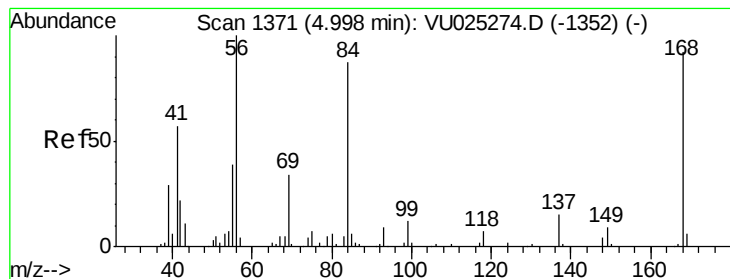
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#30
Chloroform
Concen: 0.220 ug/l m
RT: 4.69 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	41.5	51.5	77.3#





#31

Cyclohexane

Concen: 1.863 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

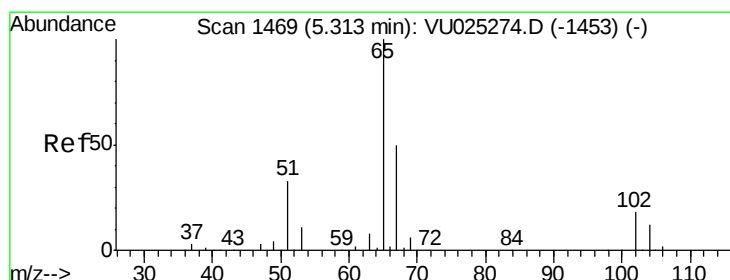
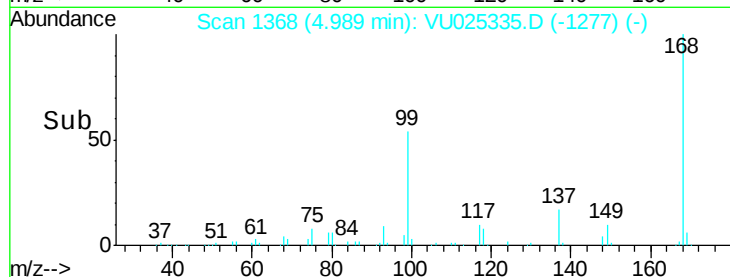
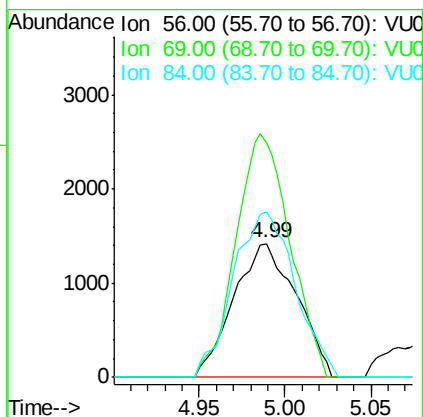
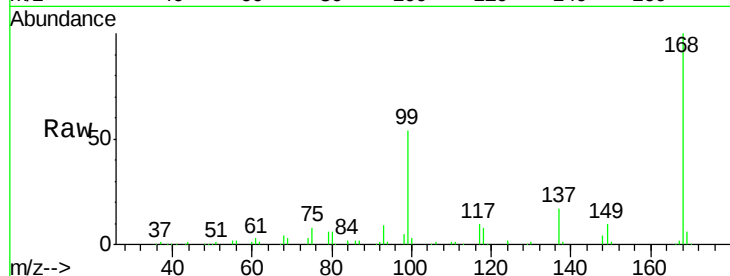
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	56	Resp:	3596
Ion	Ratio	Lower	Upper
56	100		
69	174.8	26.8	40.2#
84	123.6	69.7	104.5#

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#33

1,2-Dichloroethane-d4

Concen: 44.999 ug/l

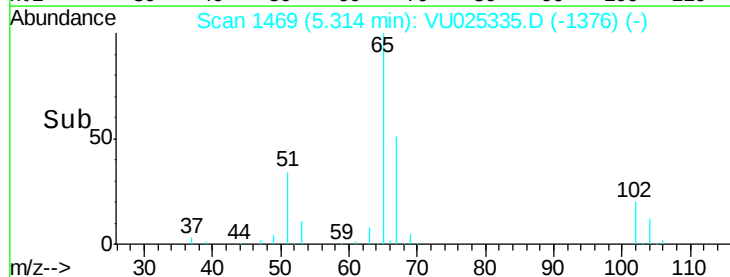
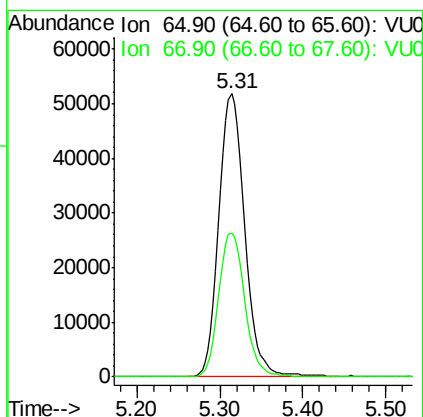
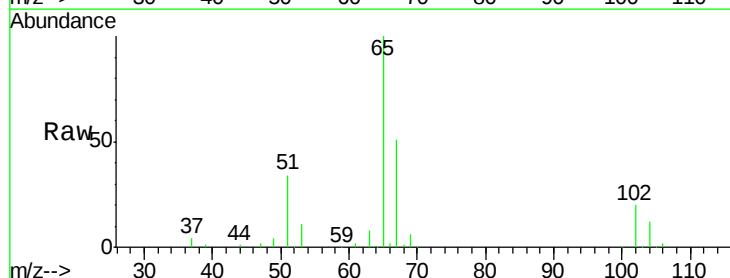
RT: 5.31 min Scan# 1469

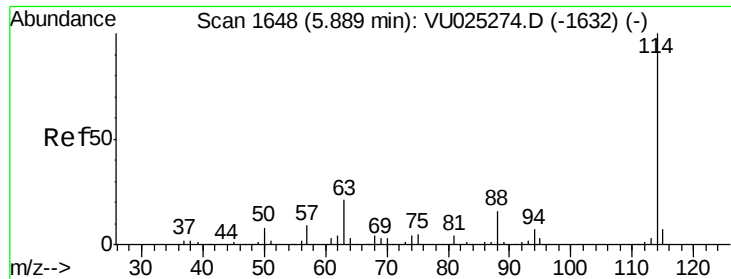
Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Tgt Ion:	65	Resp:	112721
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

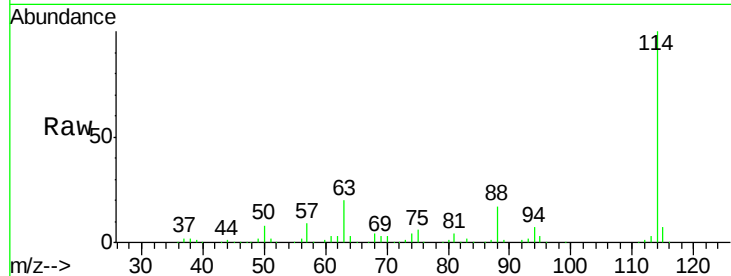
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	114	Resp:	243021
Ion Ratio	Lower	Upper	
114	100		
63	20.4	0.0	41.6
88	17.0	0.0	32.4

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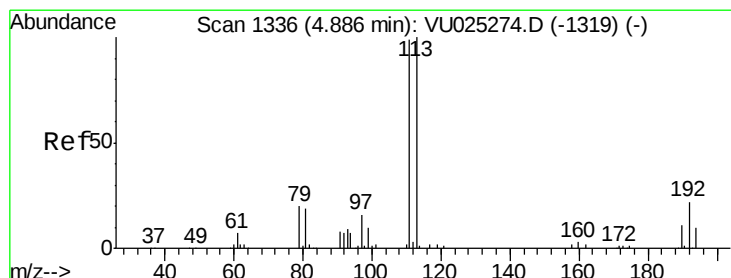
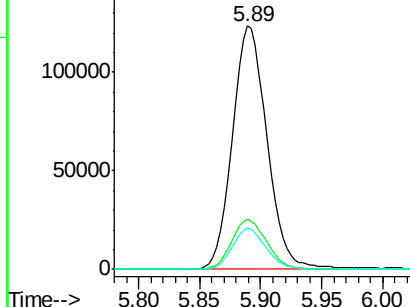
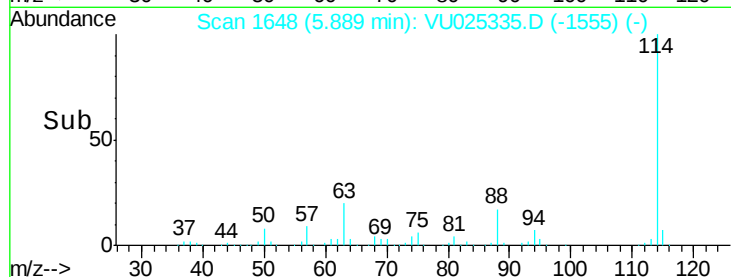
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Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 42.807 ug/l

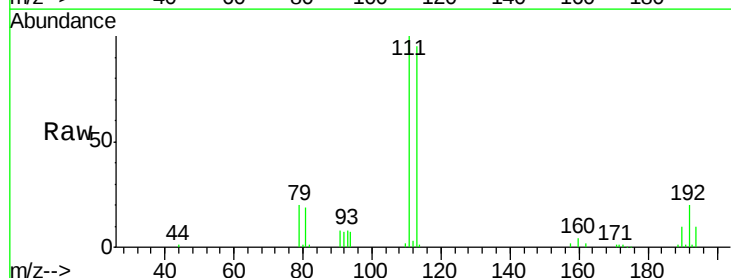
RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

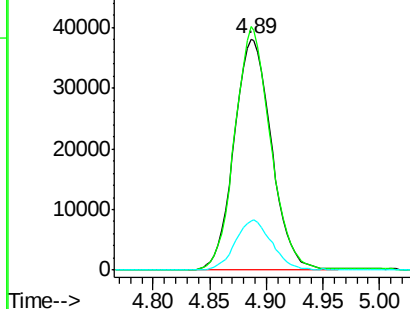
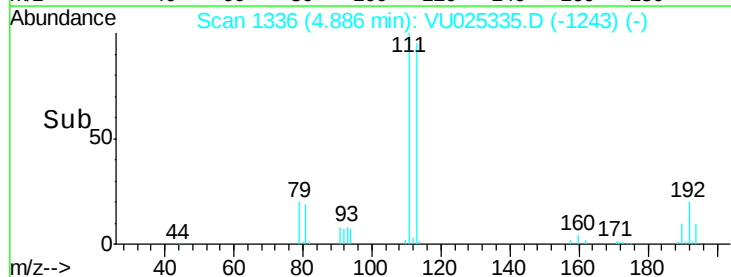
Tgt Ion:	113	Resp:	87758
Ion Ratio	Lower	Upper	
113	100		
111	100.5	81.7	122.5
192	21.2	17.1	25.7

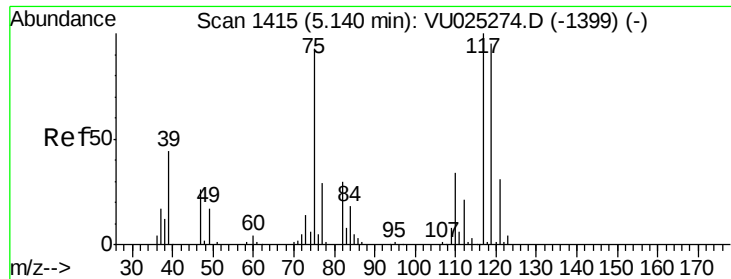


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





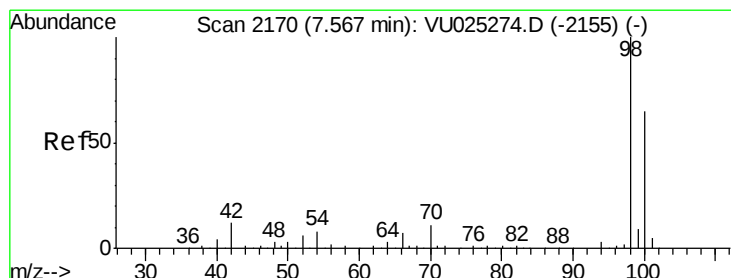
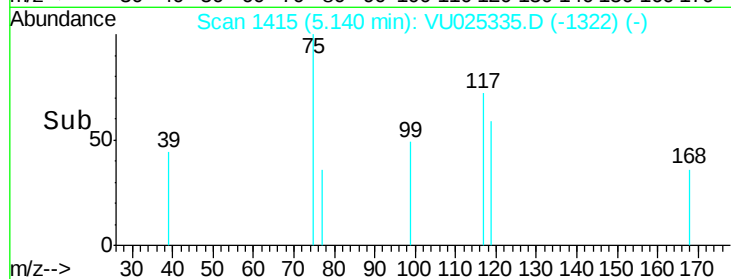
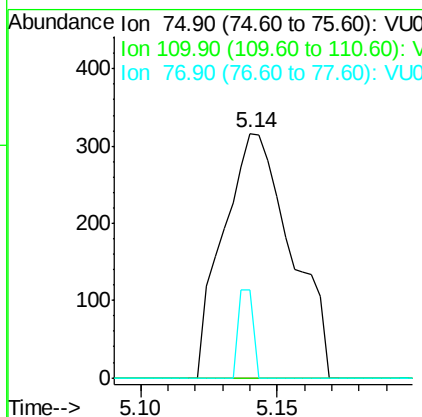
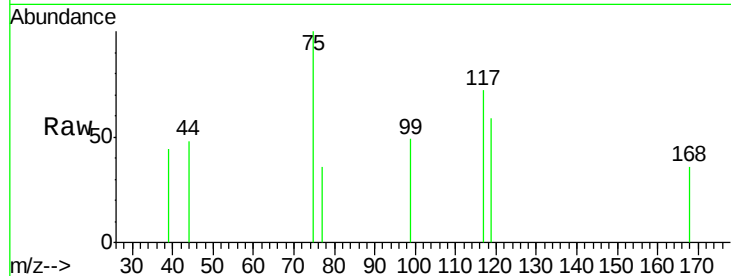
#36
 1,1-Dichloropropene
 Concen: 0.201 ug/l
 RT: 5.14 min Scan# 1415
 Delta R.T. 0.00 min
 Lab File: VU025335.D
 Acq: 12 Jul 2018 13:06

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

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.6	52.9#
77	8.1	24.4	36.6#

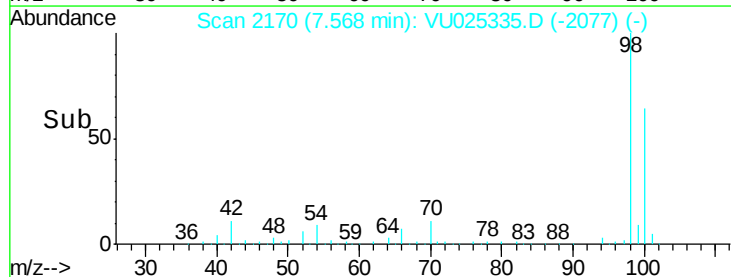
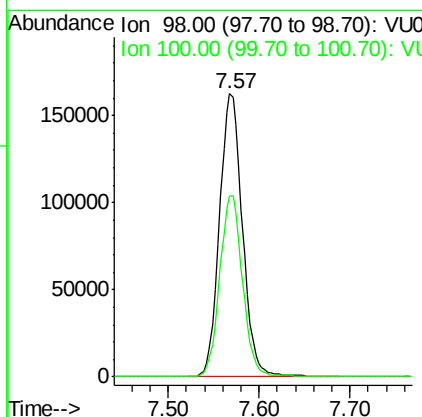
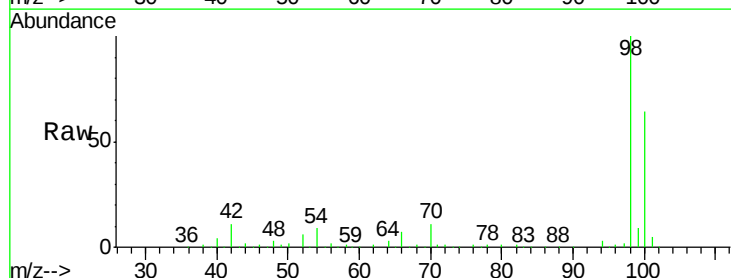
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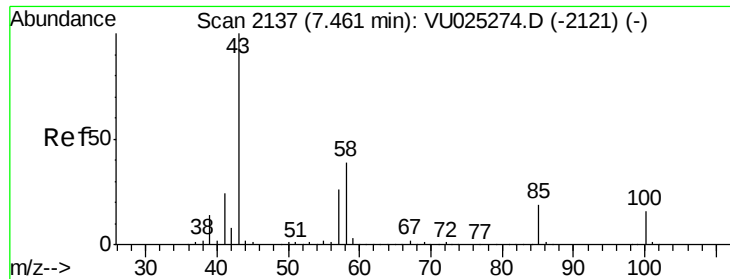
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#50
 Toluene-d8
 Concen: 40.646 ug/l
 RT: 7.57 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VU025335.D
 Acq: 12 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 0.862 ug/l

RT: 7.47 min Scan# 2140

Delta R.T. 0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Tot Ion: 43 Resp: 2704

Ion Ratio Lower Upper

43 100

58 42.4 31.0 46.4

Instrument :

MSVOA_U

ClientSampleId :

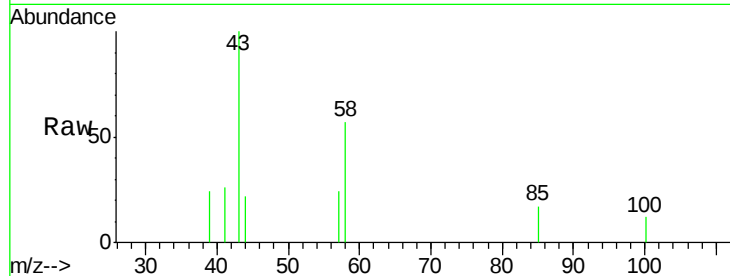
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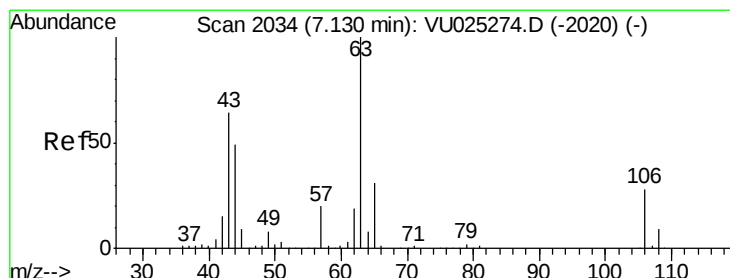
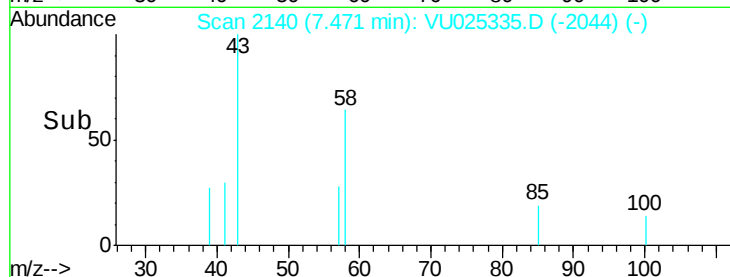
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.47

7.50

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 12.117 ug/l

RT: 7.15 min Scan# 2039

Delta R.T. 0.02 min

Lab File: VU025335.D

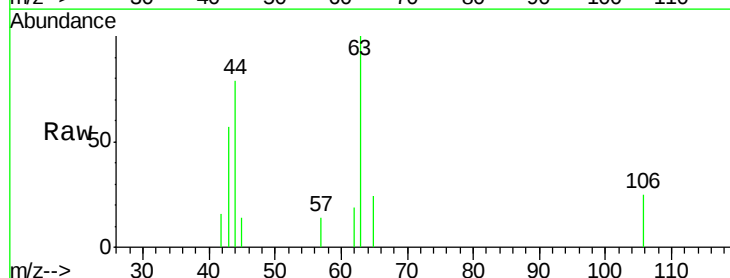
Acq: 12 Jul 2018 13:06

Tgt Ion: 63 Resp: 1655

Ion Ratio Lower Upper

63 100

106 11.2 22.3 33.5#



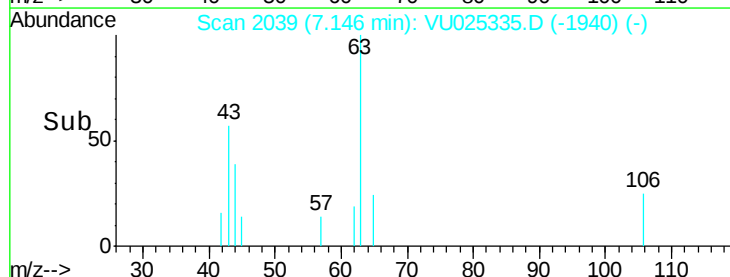
Abundance Ion 62.90 (62.60 to 63.60): VU0

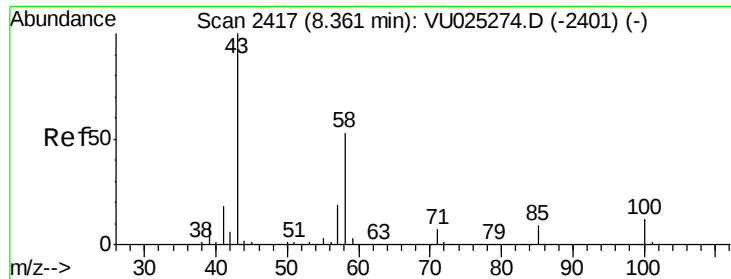
Ion 105.90 (105.60 to 106.60): V

7.15

7.20

Time-->





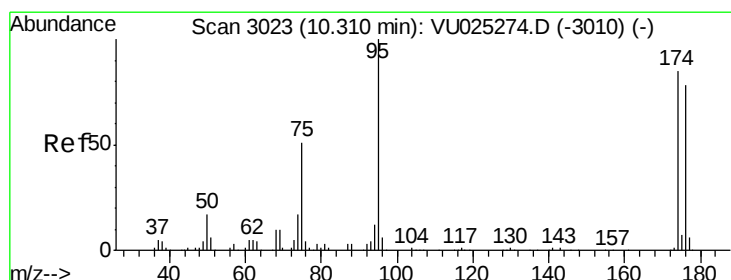
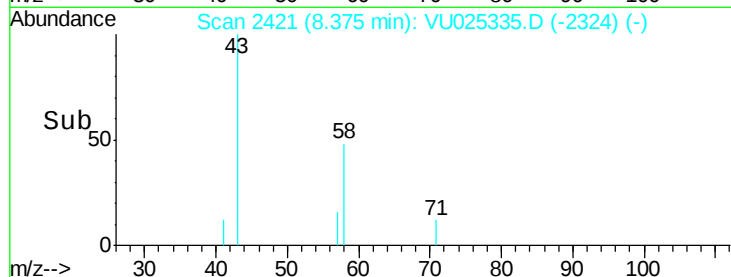
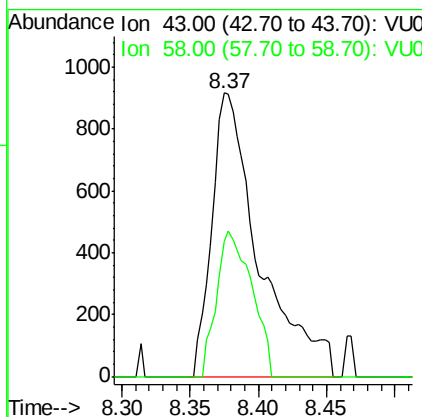
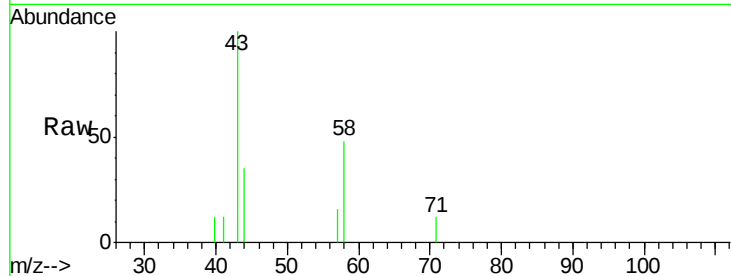
#59
2-Hexanone
Concen: 0.870 ug/l
RT: 8.37 min Scan# 2421
Delta R.T. 0.01 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

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

Tot Ion: 43 Resp: 2212
Ion Ratio Lower Upper
43 100
58 38.0 26.2 78.5

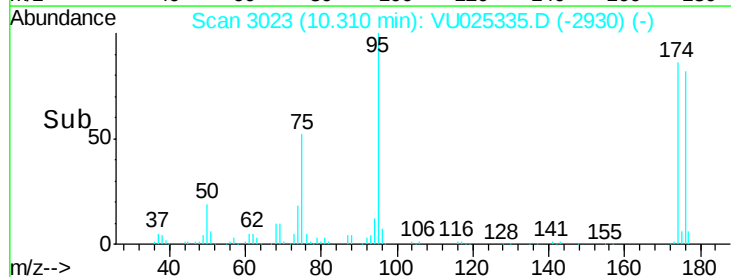
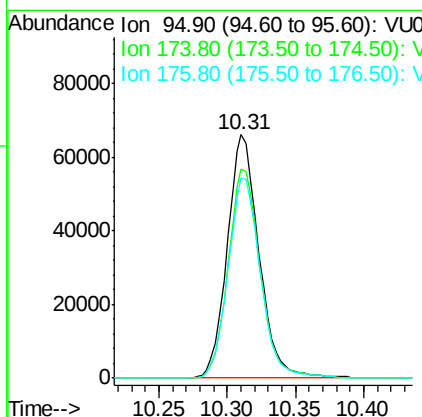
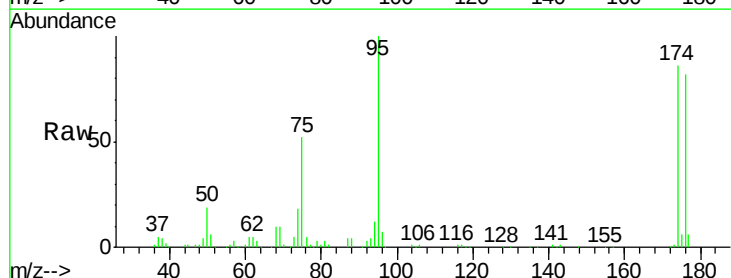
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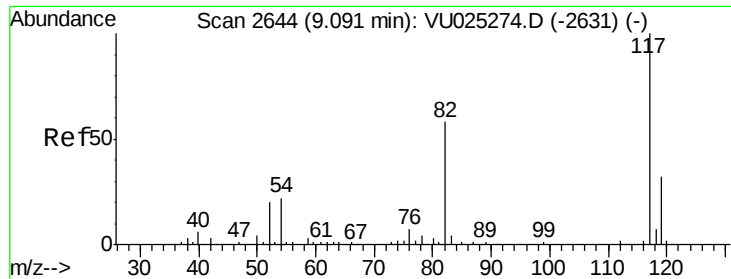
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#62
4-Bromofluorobenzene
Concen: 37.863 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

Tgt Ion: 95 Resp: 107016
Ion Ratio Lower Upper
95 100
174 86.7 0.0 172.2
176 84.2 0.0 162.6





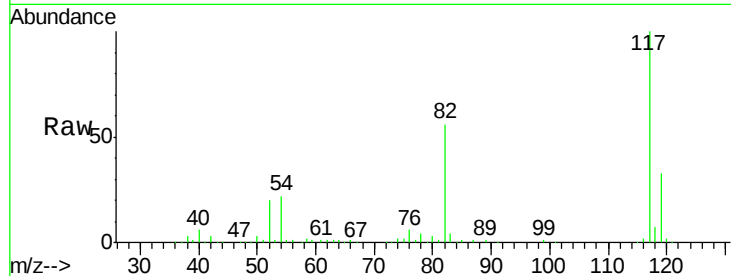
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

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

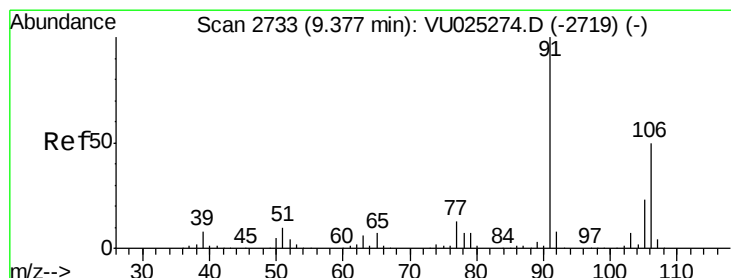
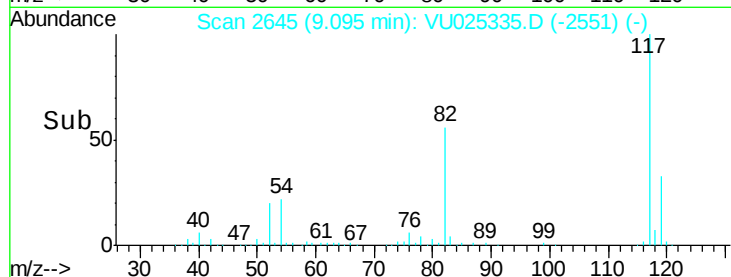
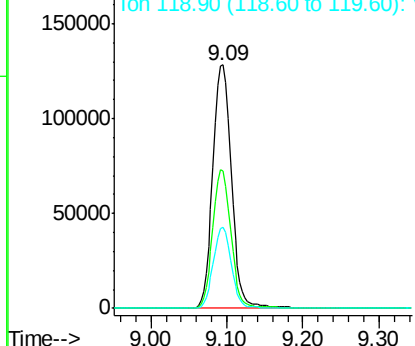
Tot Ion	Ratio	Resp	Lower	Upper
117	100	219230		
82	56.3	46.0	69.0	
119	33.4	26.0	39.0	

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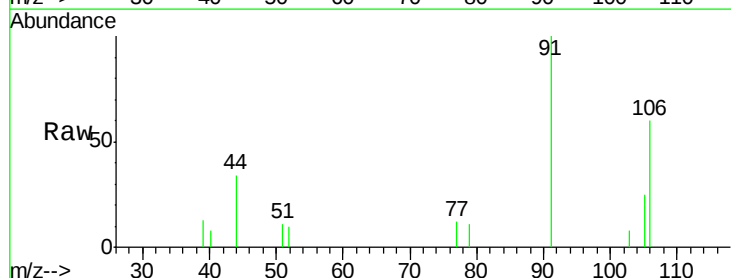


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

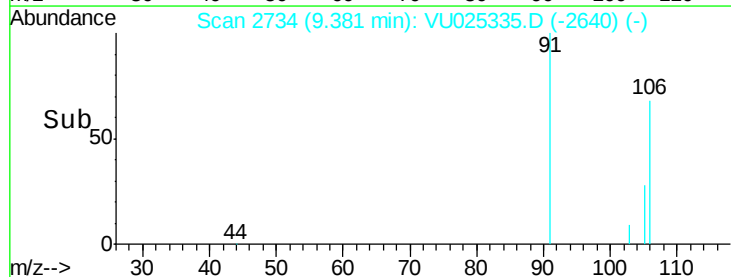
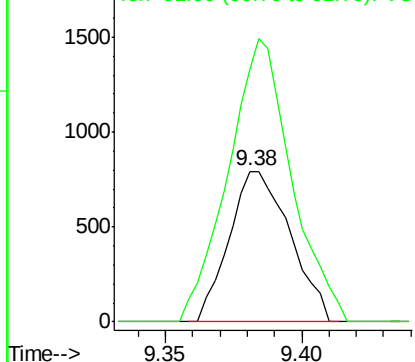


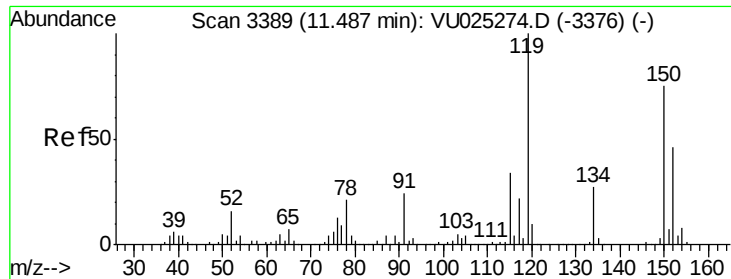
#68
m/p-Xylenes
Concen: 0.341 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025335.D
Acq: 12 Jul 2018 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	1230		
91	194.8	162.3	243.5	



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

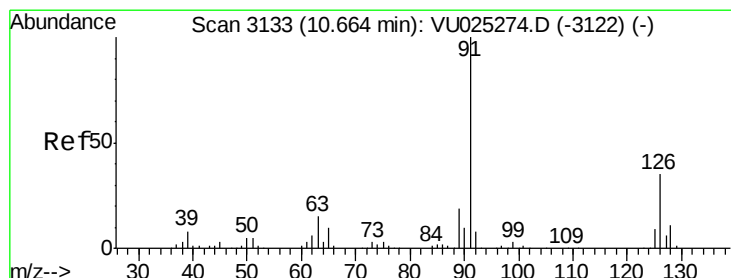
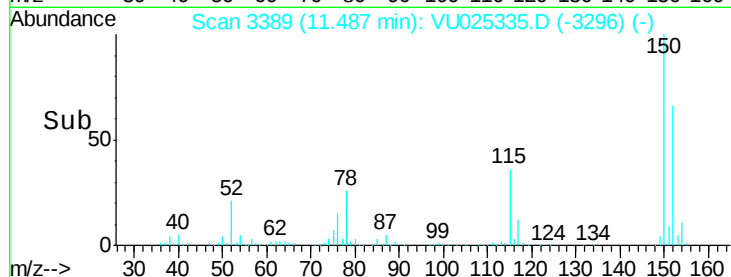
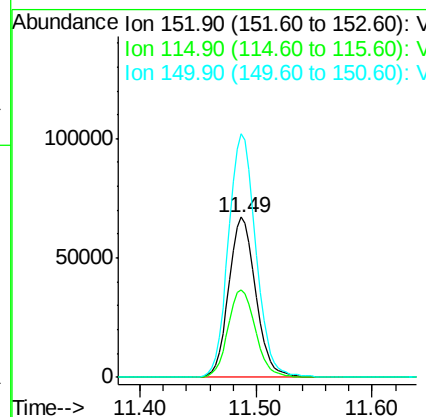
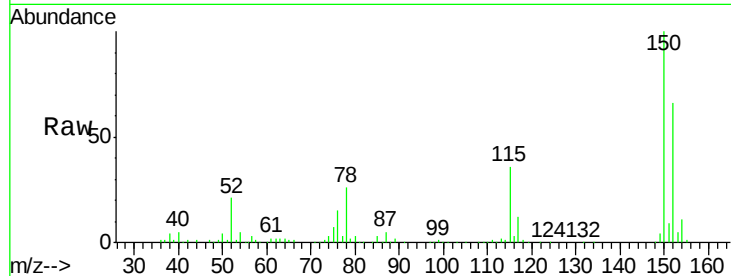
ClientSampleId :

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Tot Ion:	152	Resp:	107954
Ion Ratio	Lower	Upper	
152	100		
115	55.8	40.1	120.3
150	154.5	0.0	351.4

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#79

2-Chlorotoluene

Concen: 0.355 ug/l

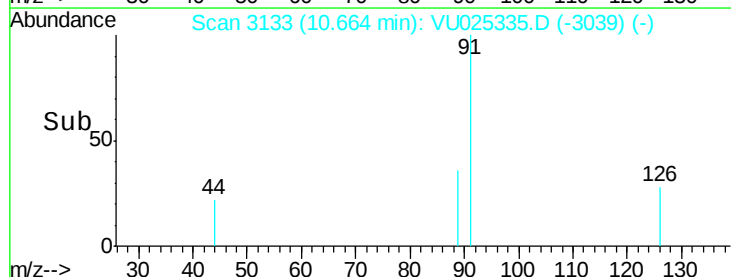
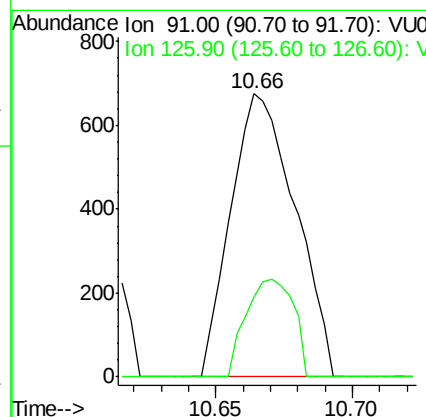
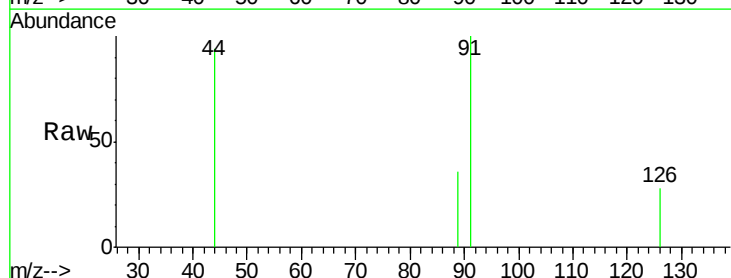
RT: 10.66 min Scan# 3133

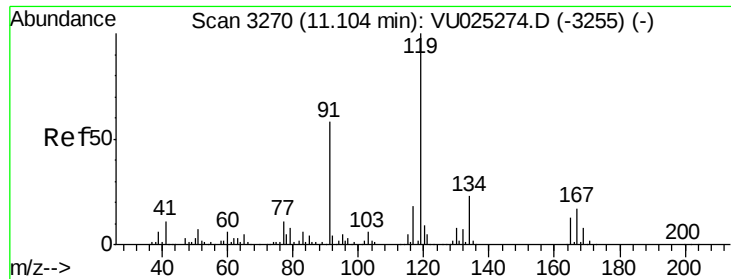
Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Tgt Ion:	91	Resp:	1109
Ion Ratio	Lower	Upper	
91	100		
126	25.2	17.5	52.6





#83

tert-Butylbenzene

Concen: 0.201 ug/l

RT: 11.10 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Instrument :

MSVOA_U

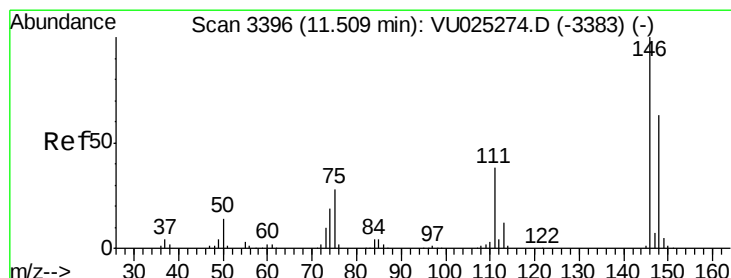
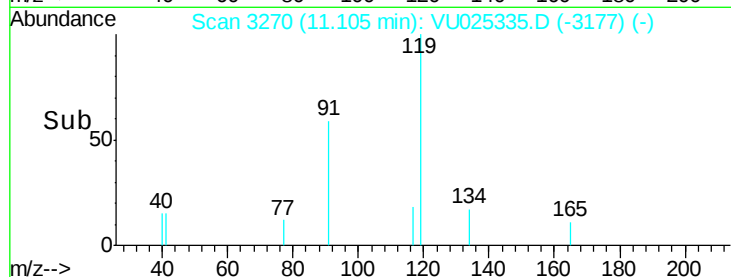
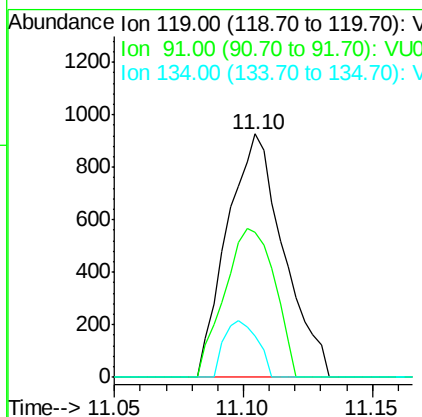
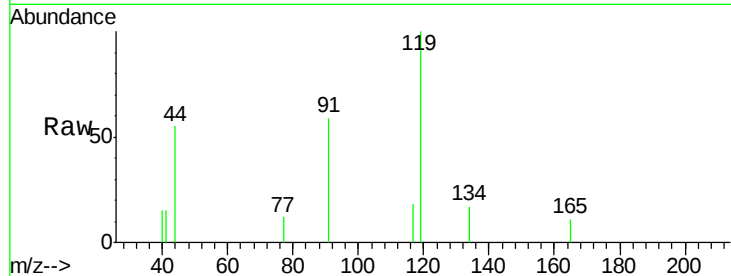
ClientSampleId :

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Tot Ion:	119	Resp:	1408
Ion Ratio	Lower	Upper	
119	100		
91	54.5	29.7	89.1
134	13.6	11.5	34.5

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#88

1,4-Dichlorobenzene

Concen: 1.706 ug/l

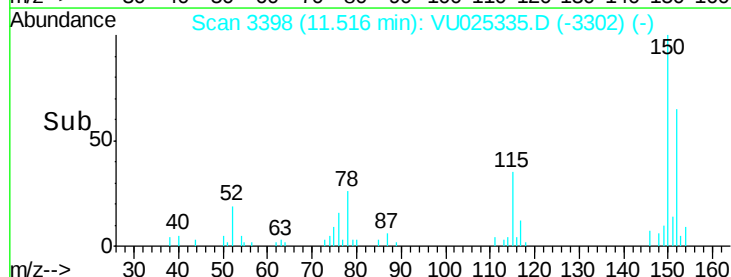
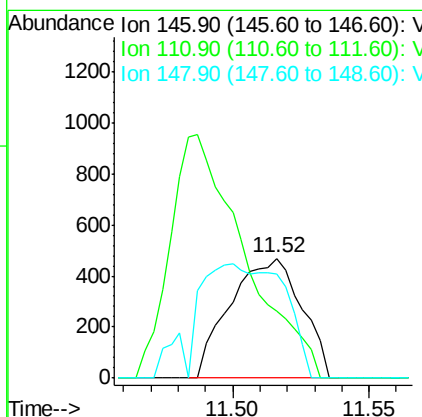
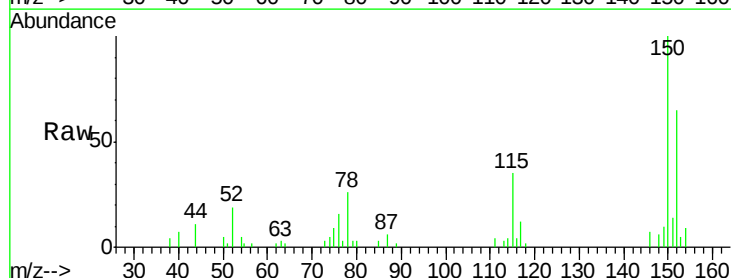
RT: 11.52 min Scan# 3398

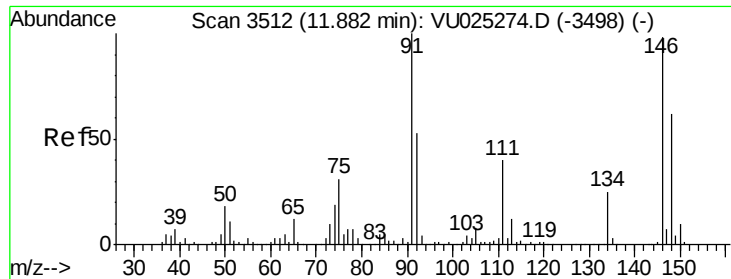
Delta R.T. 0.01 min

Lab File: VU025335.D

Acq: 12 Jul 2018 13:06

Tgt Ion:	146	Resp:	848
Ion Ratio	Lower	Upper	
146	100		
111	0.0	19.4	58.1#
148	0.0	31.7	95.1#





#91
 1,2-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 11.89 min Scan# 3515
 Delta R.T. 0.01 min
 Lab File: VU025335.D
 Acq: 12 Jul 2018 13:06

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	2.8	20.6	61.8#
148	0.0	31.5	94.5#

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