

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025337.D
 Acq On : 12 Jul 2018 13:55
 Operator : MD/SY
 Sample : J3762-09 MDL 0.5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
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MMDadoda
 7/13/2018 11:44:12 AM

Quant Time: Jul 13 04:10:08 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	168487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	248271	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	223088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	110528	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	117373	44.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.68%	
35) Dibromofluoromethane	4.89	113	90828	43.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.74%	
50) Toluene-d8	7.57	98	294808	41.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.22%	
62) 4-Bromofluorobenzene	10.31	95	109015	37.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.50%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.70	64	1019	1.122	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.28	101	1037	0.556	ug/l #	83
12) 1,1-Dichloroethene	2.29	96	915	0.536	ug/l	85
14) Allyl chloride	2.59	41	1848	0.597	ug/l	85
18) Methyl Acetate	2.62	43	1641	0.612	ug/l	96
21) trans-1,2-Dichloroethene	2.99	96	856	0.439	ug/l	91
26) 2,2-Dichloropropane	4.24	77	1576	0.459	ug/l #	63
41) Methacrylonitrile	4.55	41	1050	0.615	ug/l #	54
42) 1,2-Dichloroethane	5.42	62	1595	0.504	ug/l #	77
49) 1,4-Dioxane	6.63	88	619	10.468	ug/l #	67
71) Bromoform	9.96	173	606	4.881	ug/l #	97
74) N-amyl acetate	10.02	43	1936	1.814	ug/l #	89
76) 1,2,3-Trichloropropane	10.50	75	1573m	1.580	ug/l	
81) trans-1,4-Dichloro-2-buten	10.52	75	364m	0.413	ug/l	
93) 1,2,4-Trichlorobenzene	13.51	180	617	3.499	ug/l	70
94) Hexachlorobutadiene	13.69	225	731	0.513	ug/l	73
95) Naphthalene	13.77	128	2251	2.677	ug/l #	79
96) 1,2,3-Trichlorobenzene	14.00	180	704	2.776	ug/l	79

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

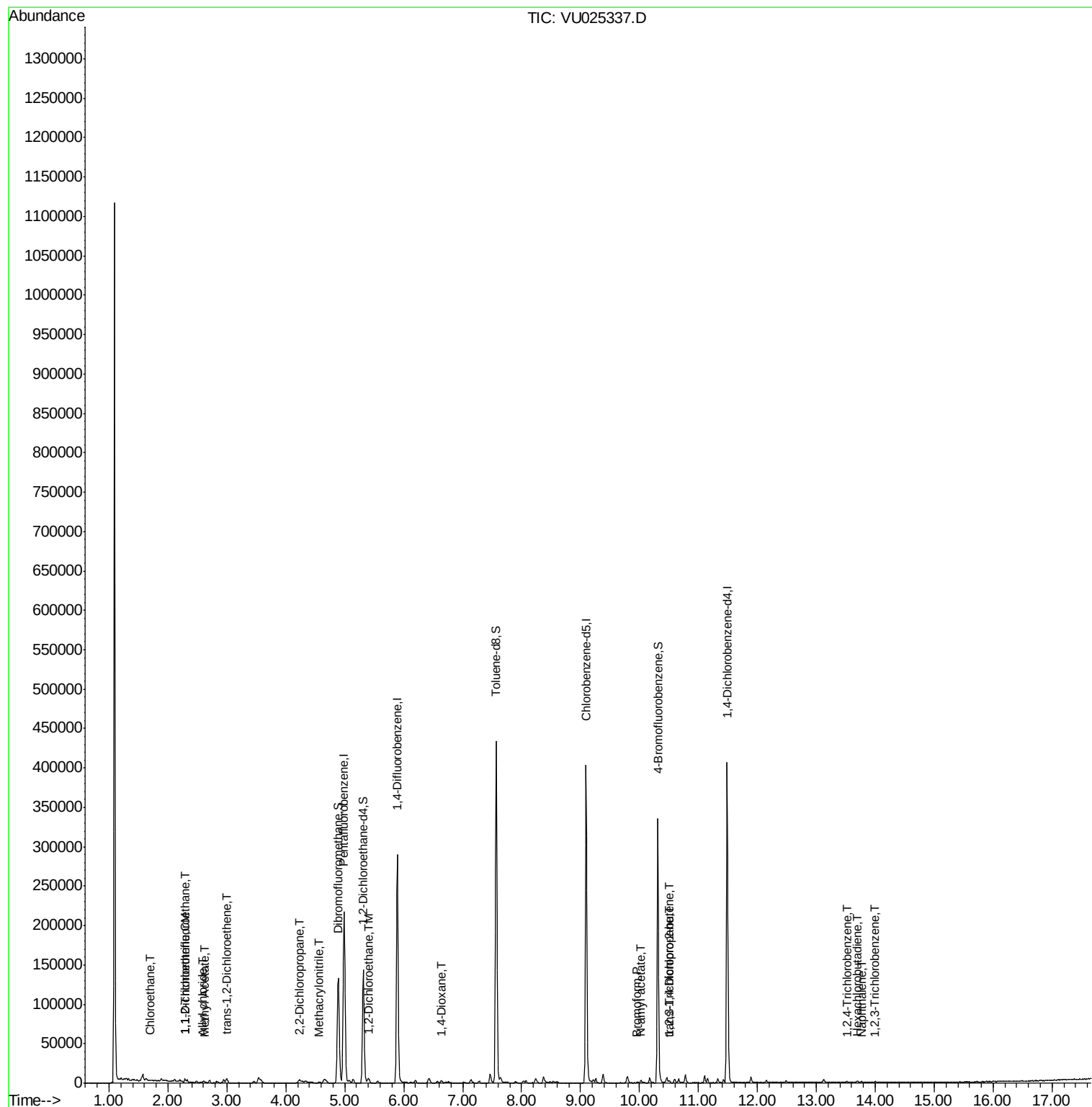
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071218\
Data File : VU025337.D
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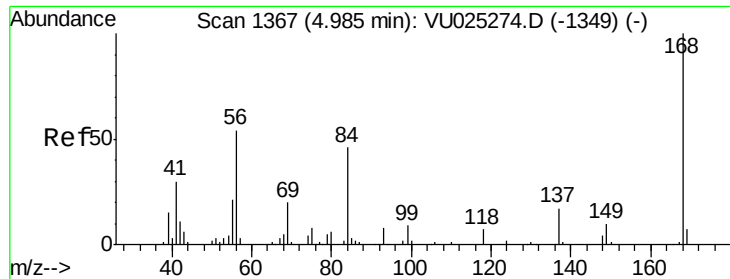
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

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7/13/2018 11:44:12 AM

Quant Time: Jul 13 04:10:08 2018
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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: VU025337.D

Acq: 12 Jul 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 168487

Ion Ratio Lower Upper

168 100

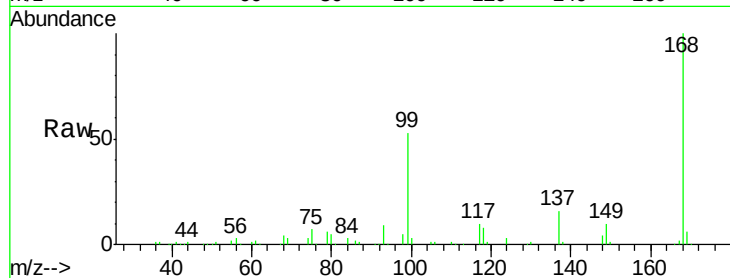
99 53.1 42.8 64.2

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

Ion 98.90 (98.60 to 99.60): VU025337.D (-1274) (-)

4.99

80000

60000

40000

20000

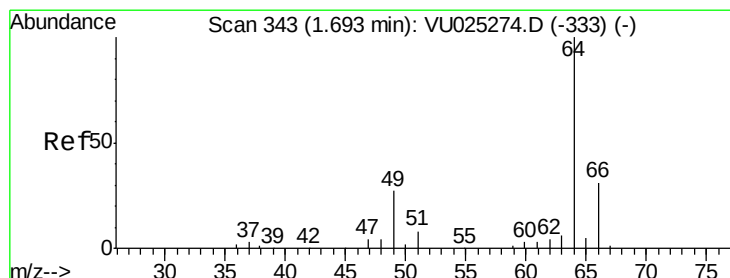
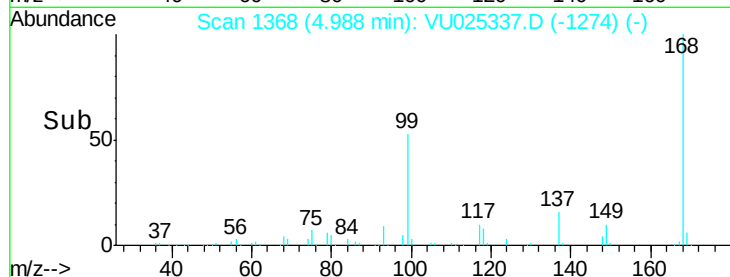
0

Time-->

4.90

5.00

5.10



#6

Chloroethane

Concen: 1.122 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025337.D

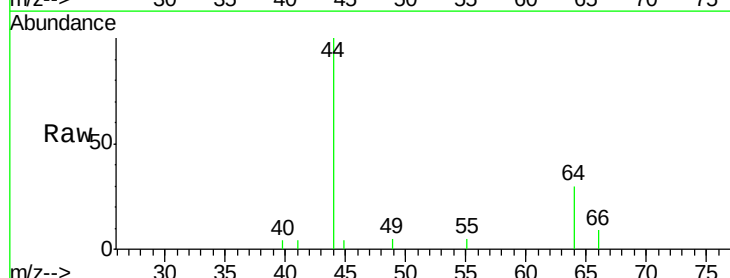
Acq: 12 Jul 2018 13:55

Tgt Ion: 64 Resp: 1019

Ion Ratio Lower Upper

64 100

66 28.9 25.0 37.4



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

Ion 65.90 (65.60 to 66.60): VU025337.D (-249) (-)

1.70

800

600

400

200

0

Time-->

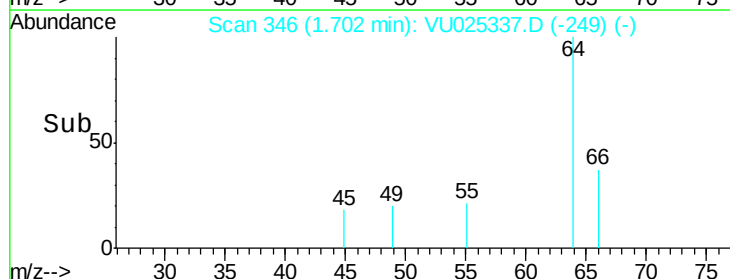
1.66

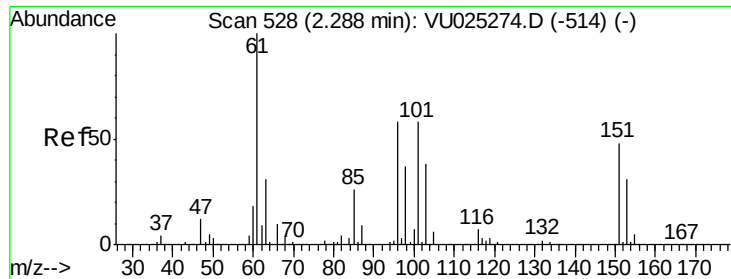
1.68

1.70

1.72

1.74





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.556 ug/l

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Instrument :

MSVOA_U

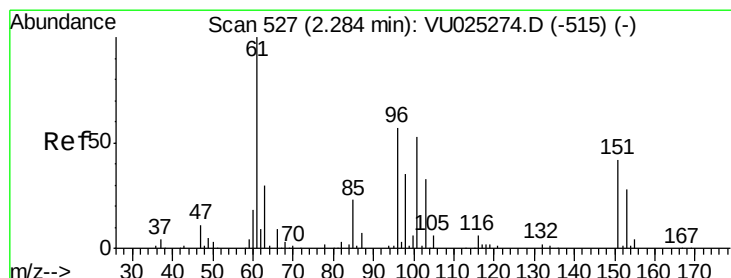
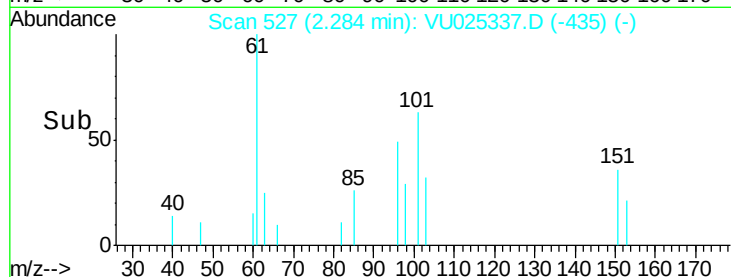
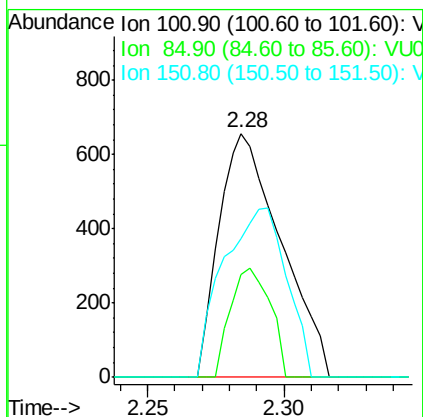
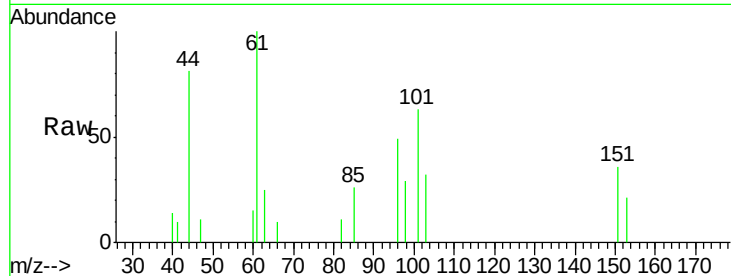
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	101	Resp:	1037
Ion Ratio	Lower	Upper	
101	100		
85	28.6	36.0	54.0#
151	70.5	65.6	98.4

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#12

1,1-Dichloroethene

Concen: 0.536 ug/l

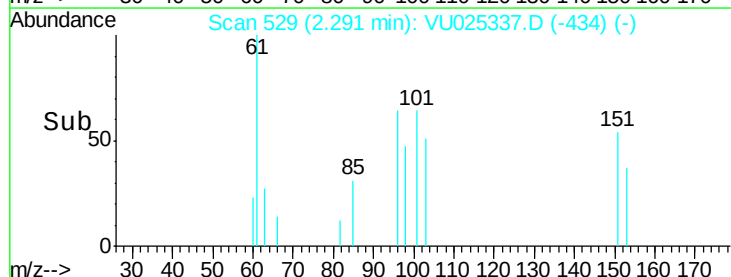
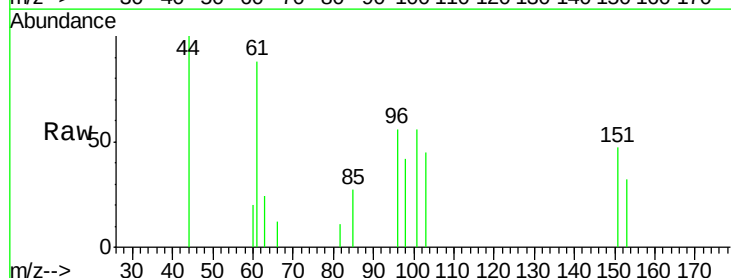
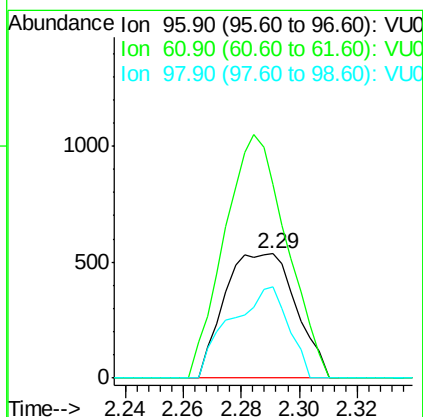
RT: 2.29 min Scan# 529

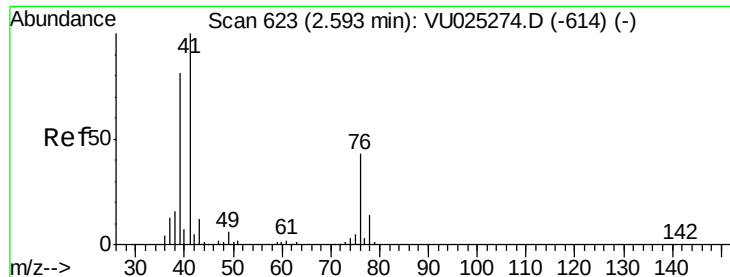
Delta R.T. 0.01 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Tgt Ion:	96	Resp:	915
Ion Ratio	Lower	Upper	
96	100		
61	155.6	140.2	210.4
98	73.9	49.3	73.9





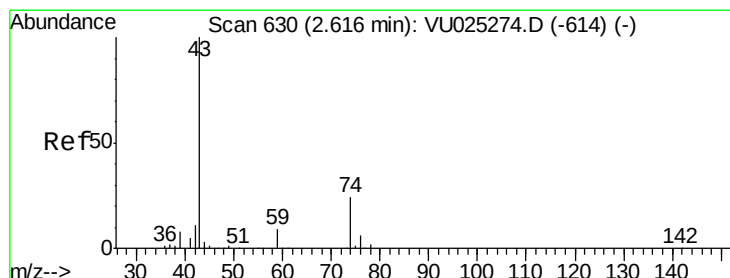
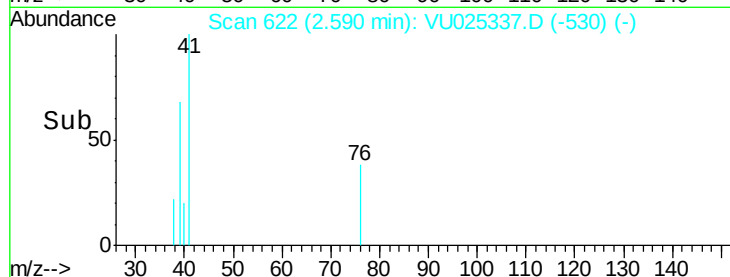
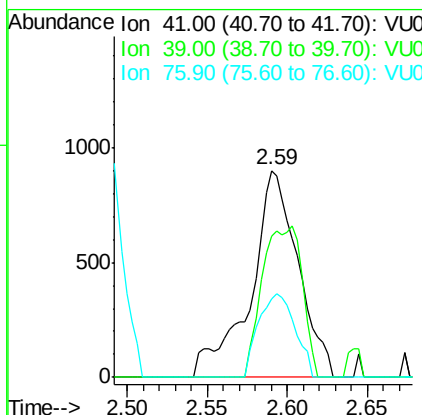
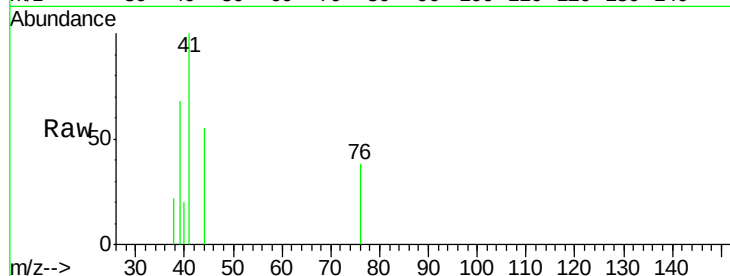
#14
Allvl chloride
Concen: 0.597 ug/l
RT: 2.59 min Scan# 622
Delta R.T. -0.00 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.6	60.6	91.0
76	30.9	30.5	45.7

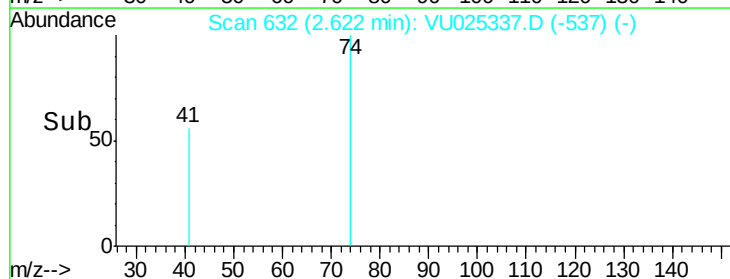
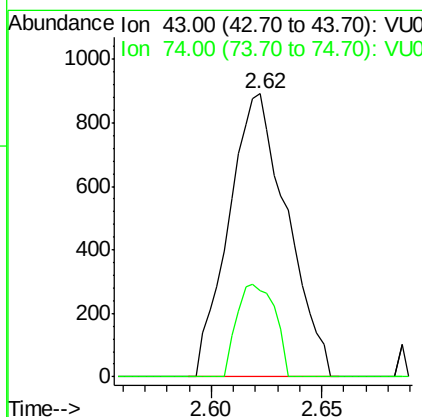
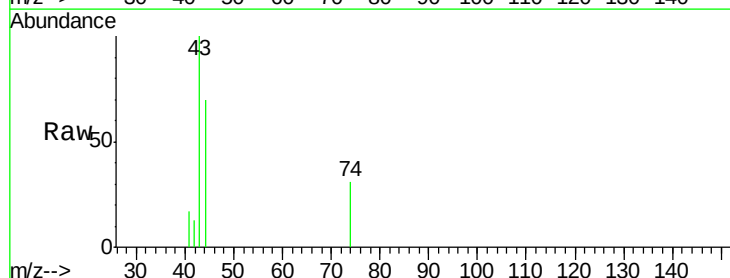
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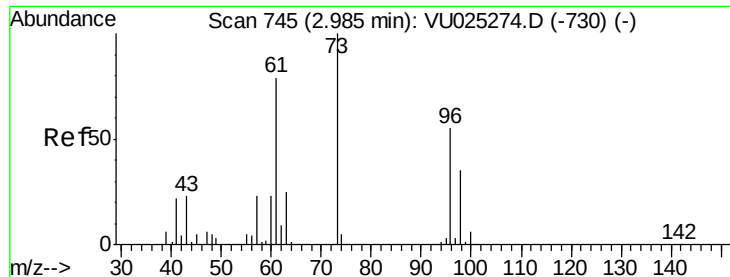
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#18
Methyl Acetate
Concen: 0.612 ug/l
RT: 2.62 min Scan# 632
Delta R.T. 0.01 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.4	18.5	27.7





#21

trans-1,2-Dichloroethene

Concen: 0.439 ug/l

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Instrument :

MSVOA_U

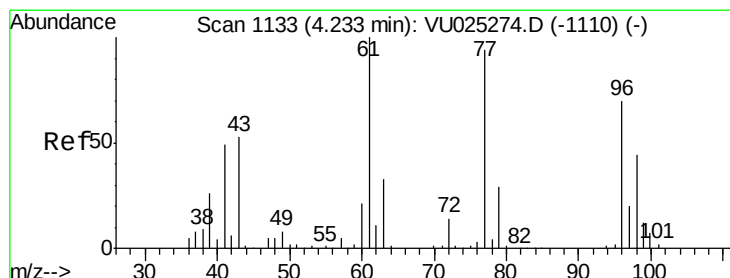
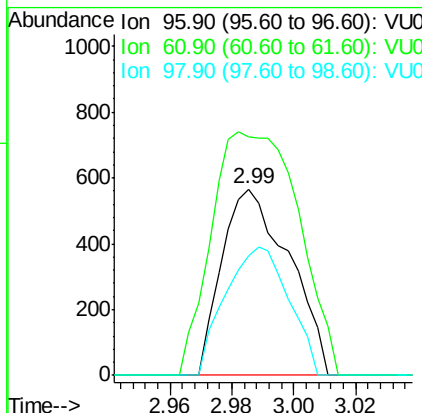
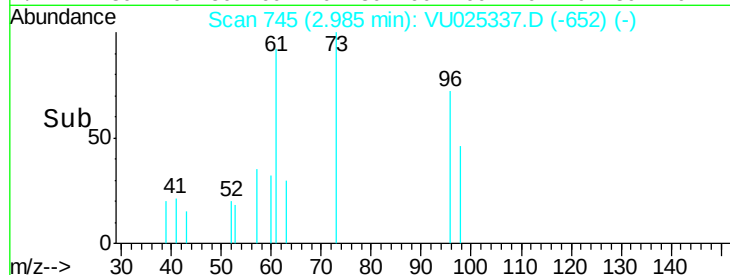
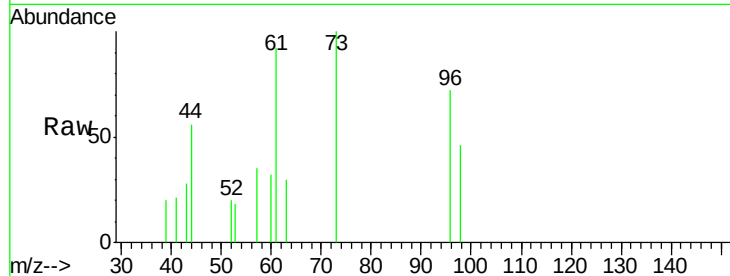
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	96	Resp:	856
Ion	Ratio	Lower	Upper
96	100		
61	128.1	114.5	171.7
98	64.3	50.5	75.7

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#26

2,2-Dichloropropane

Concen: 0.459 ug/l

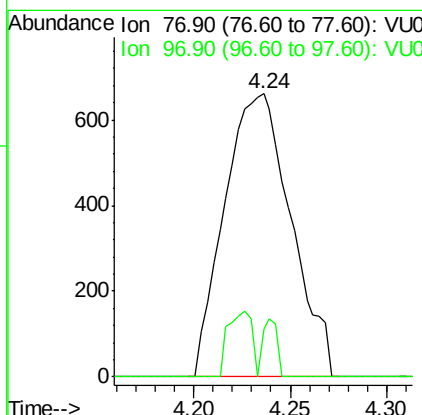
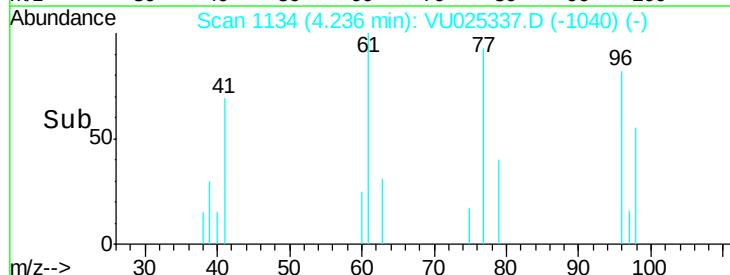
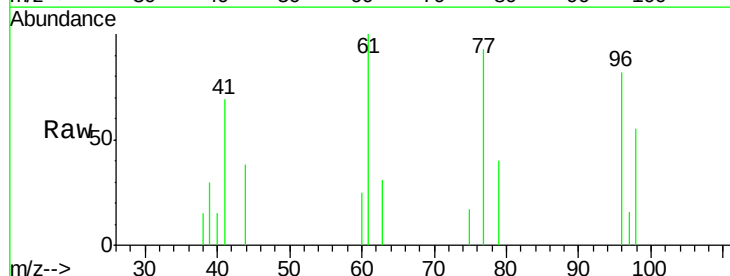
RT: 4.24 min Scan# 1134

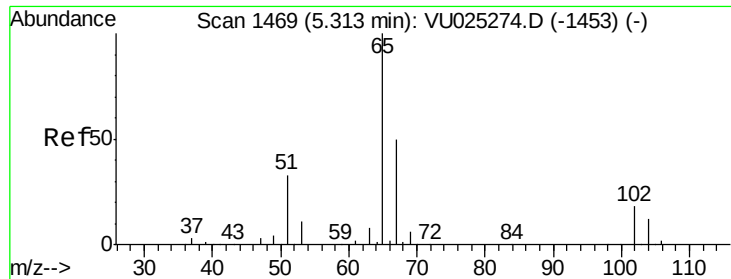
Delta R.T. 0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Tgt Ion:	77	Resp:	1576
Ion	Ratio	Lower	Upper
77	100		
97	4.6	11.2	33.5#





#33

1,2-Dichloroethane-d4

Concen: 44.839 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Tot Ion: 65 Resp: 117373

Ion Ratio Lower Upper

65 100

67 50.4 0.0 103.6

Instrument :

MSVOA_U

ClientSampleId :

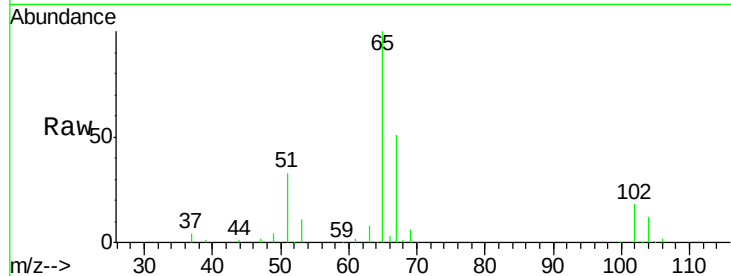
MDL-WATER-03-QT3-2018

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Abundance Ion 64.90 (64.60 to 65.60): VU025274.D (-1453) (-)

Ion 66.90 (66.60 to 67.60): VU025274.D (-1453) (-)

5.31

60000

50000

40000

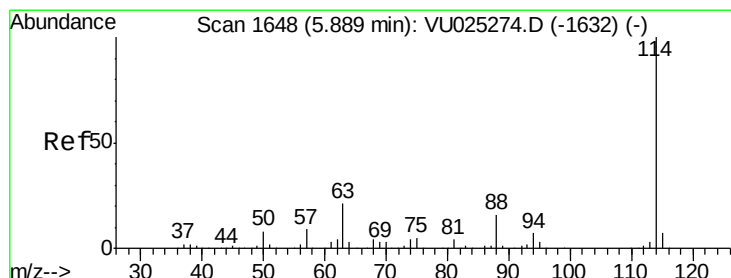
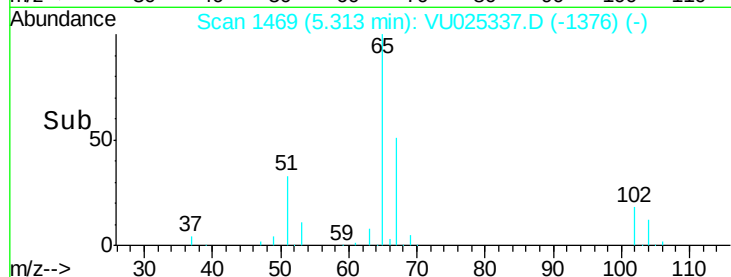
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

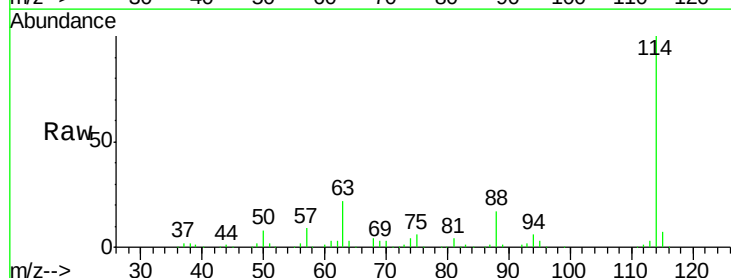
Tgt Ion: 114 Resp: 248271

Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.6

88 16.5 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): VU025274.D (-1632) (-)

Ion 63.00 (62.70 to 63.70): VU025274.D (-1632) (-)

Ion 87.90 (87.60 to 88.60): VU025274.D (-1632) (-)

5.89

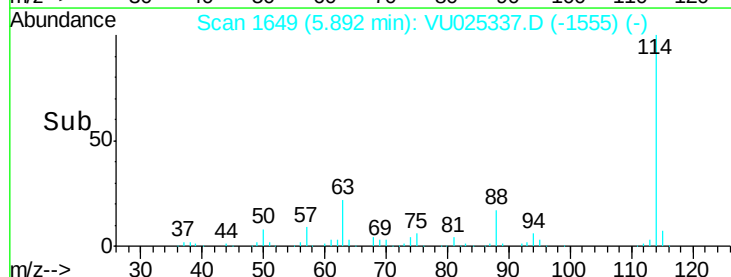
150000

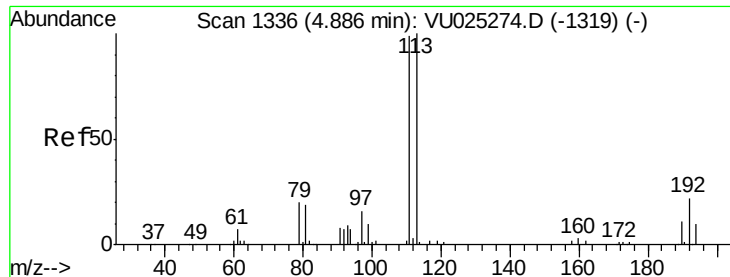
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50000

0

Time-->





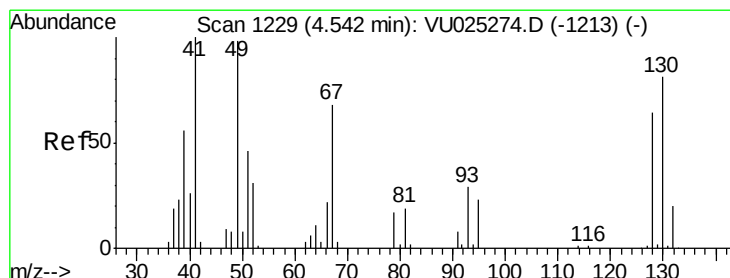
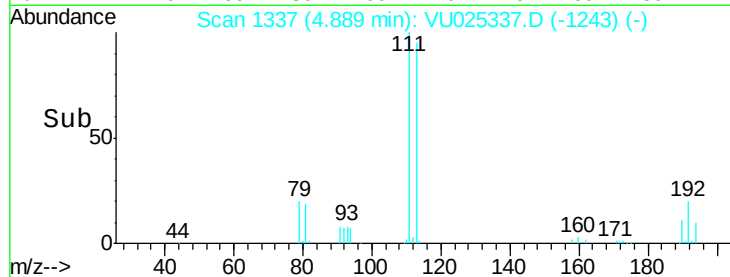
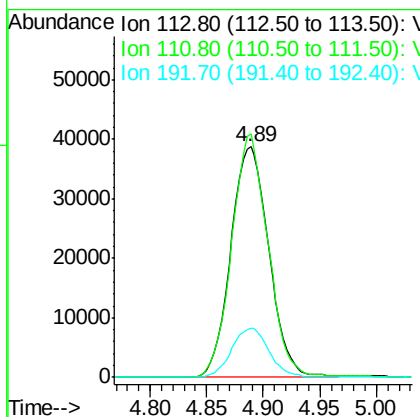
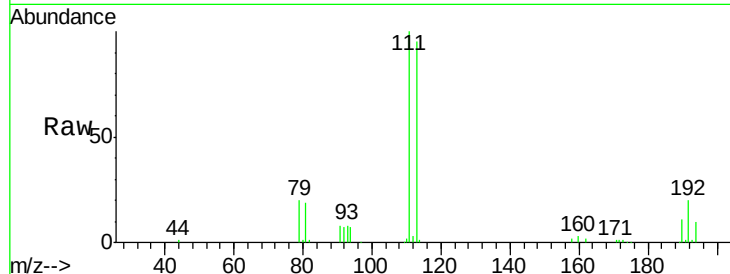
#35
 Dibromofluoromethane
 Concen: 43.367 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

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

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.7	122.5
192	20.8	17.1	25.7

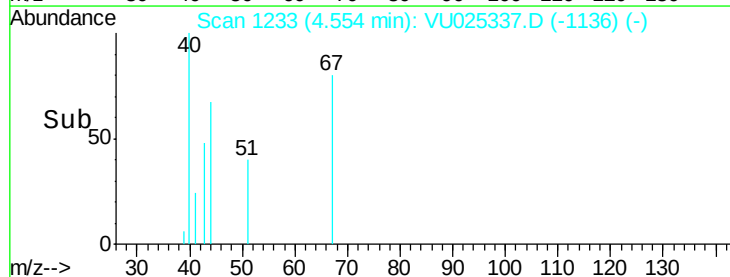
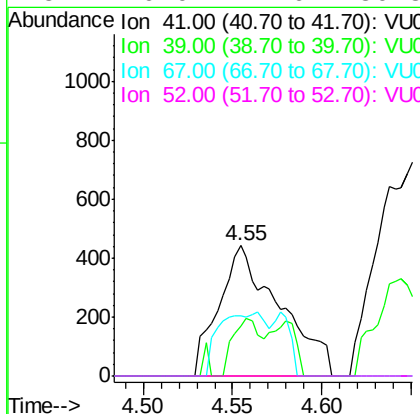
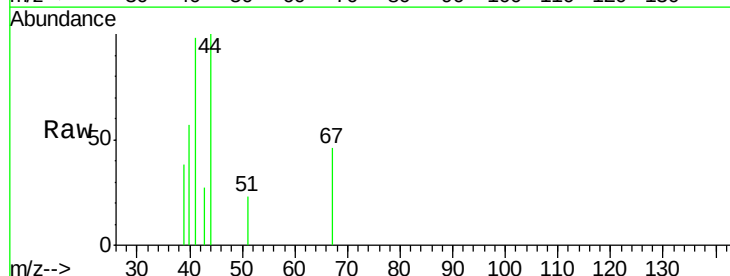
Manual Integrations
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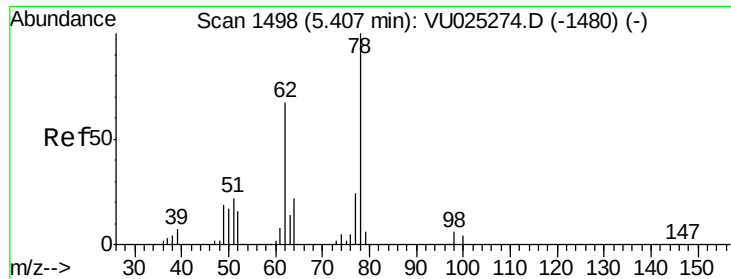
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#41
 Methacrylonitrile
 Concen: 0.615 ug/l
 RT: 4.55 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

Tgt Ion	Ratio	Lower	Upper
41	100		
39	19.8	44.4	66.6#
67	38.0	56.0	84.0#
52	0.0	24.6	36.8#





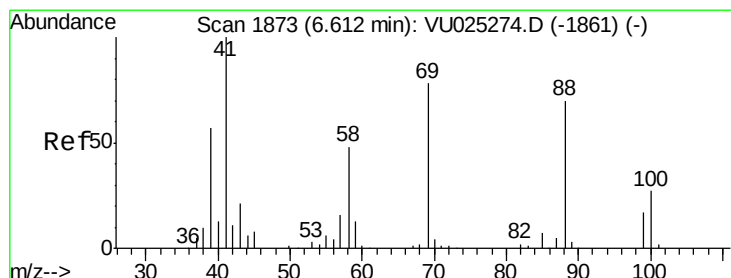
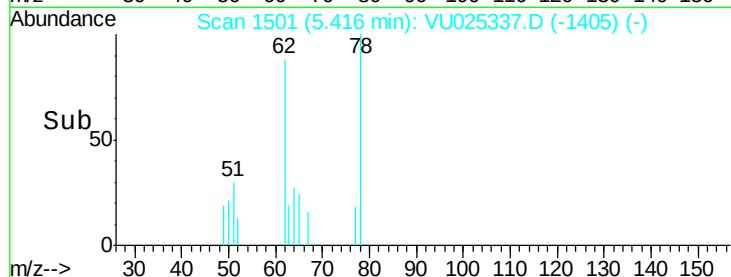
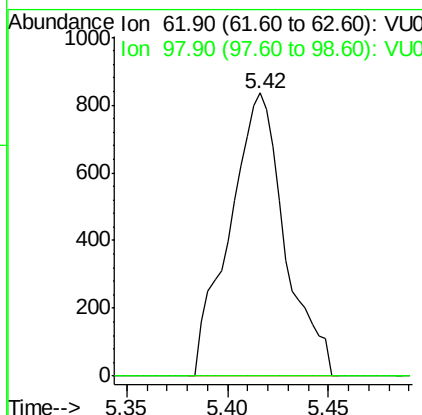
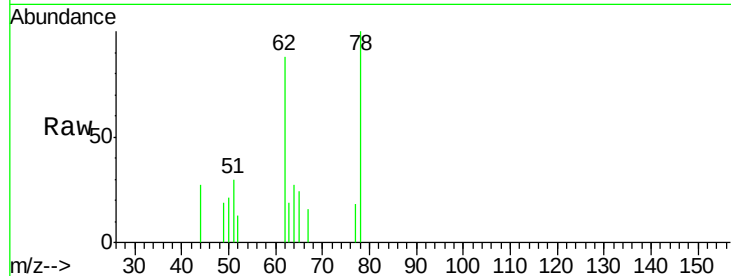
#42
1,2-Dichloroethane
Concen: 0.504 ug/l
RT: 5.42 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

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

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	16.4

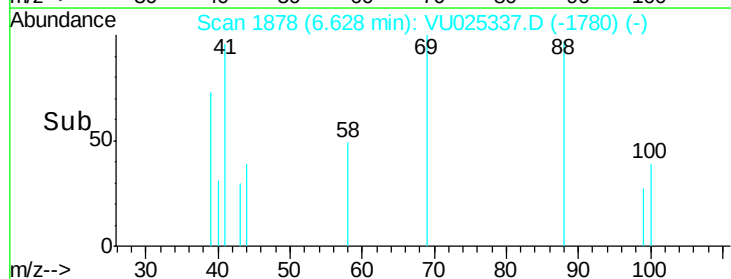
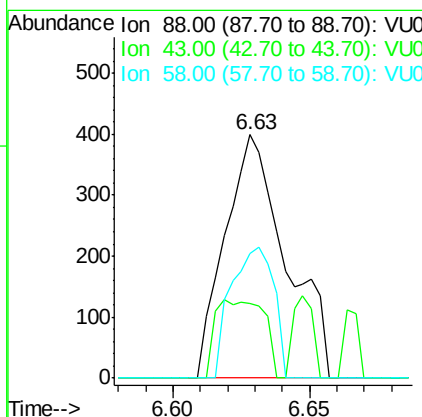
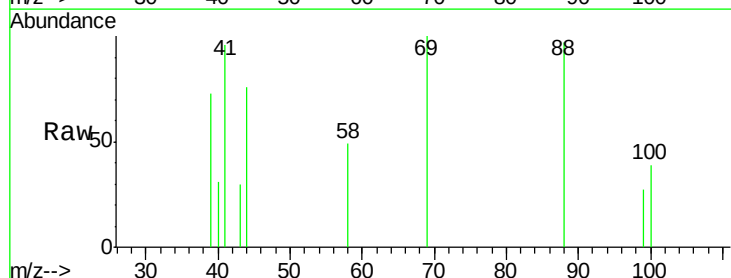
Manual Integrations
APPROVED

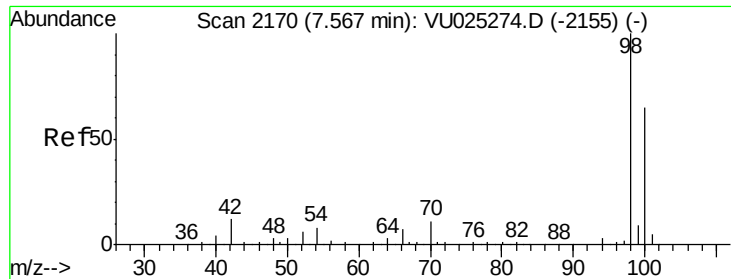
MMDadoda
7/13/2018 11:44:12 AM



#49
1,4-Dioxane
Concen: 10.468 ug/l
RT: 6.63 min Scan# 1878
Delta R.T. 0.02 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

Tgt Ion	Ratio	Lower	Upper
88	100		
43	25.7	27.3	40.9#
58	37.8	57.6	86.4#





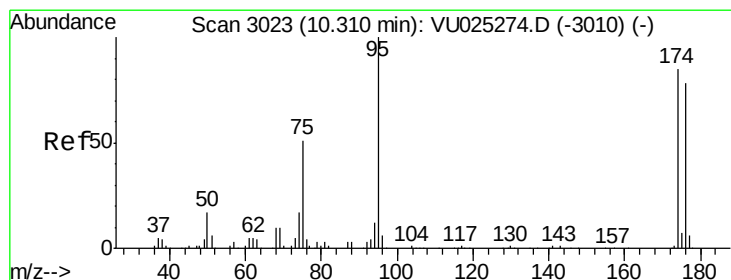
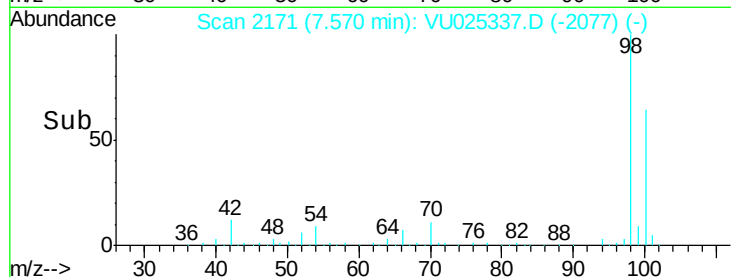
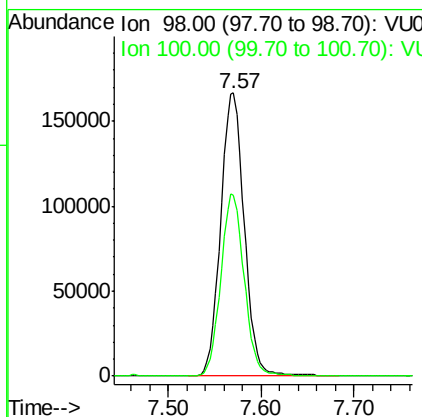
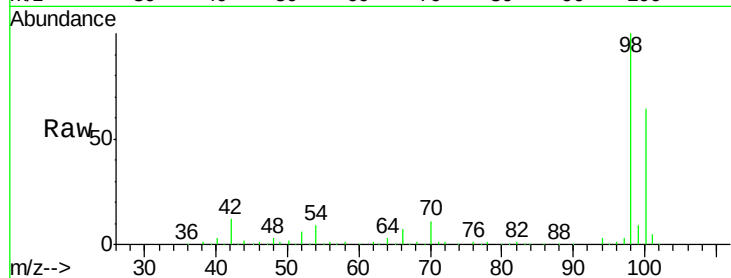
#50
Toluene-d8
Concen: 41.106 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

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

Tot Ion: 98 Resp: 294808
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7

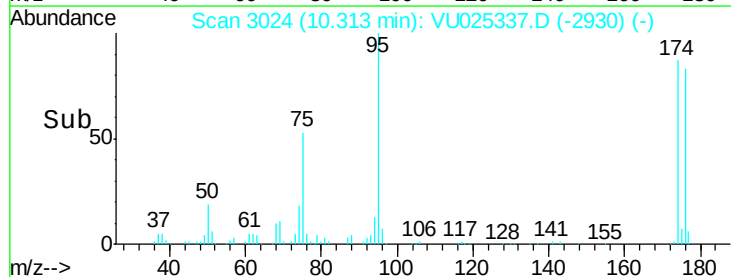
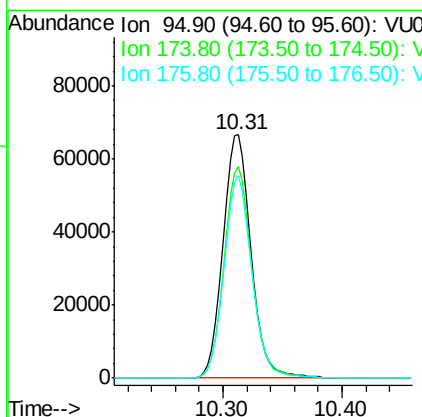
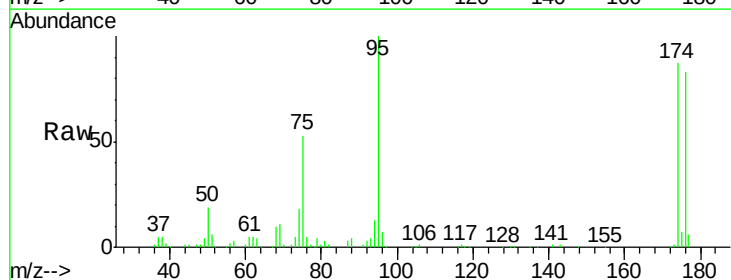
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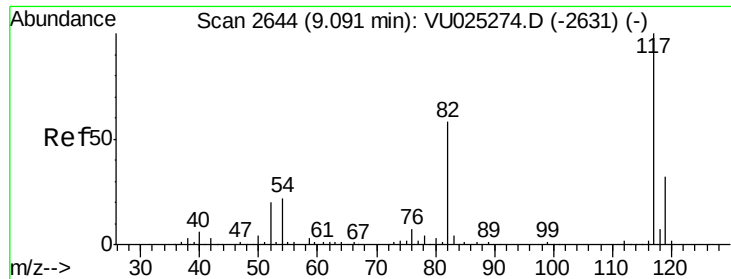
MMDadoda
7/13/2018 11:44:12 AM



#62
4-Bromofluorobenzene
Concen: 37.755 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

Tgt Ion: 95 Resp: 109015
Ion Ratio Lower Upper
95 100
174 86.3 0.0 172.2
176 82.4 0.0 162.6





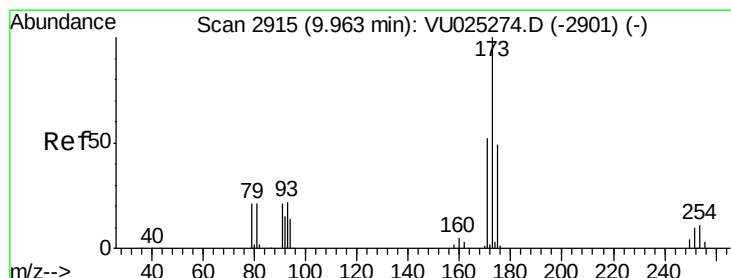
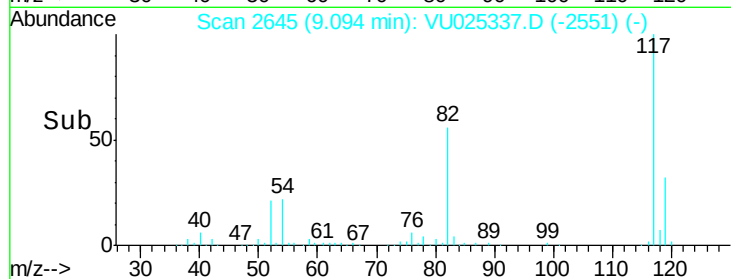
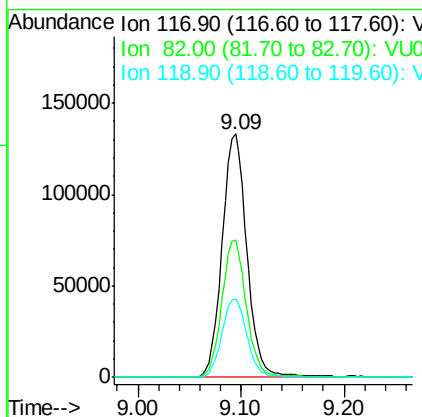
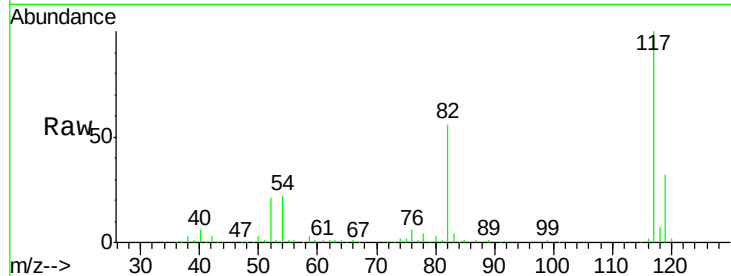
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	223088		
82	56.3	46.0	69.0	
119	32.0	26.0	39.0	

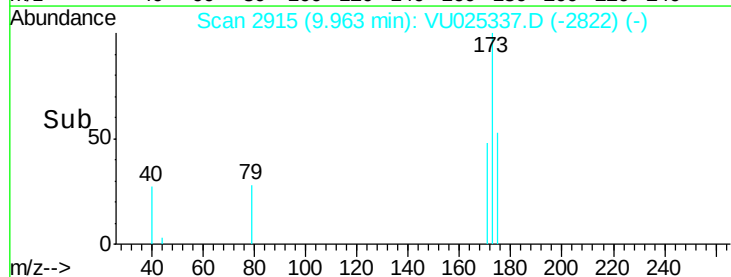
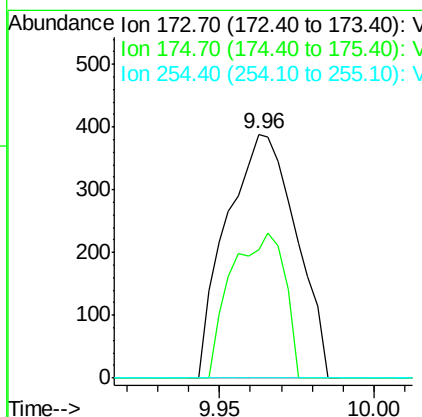
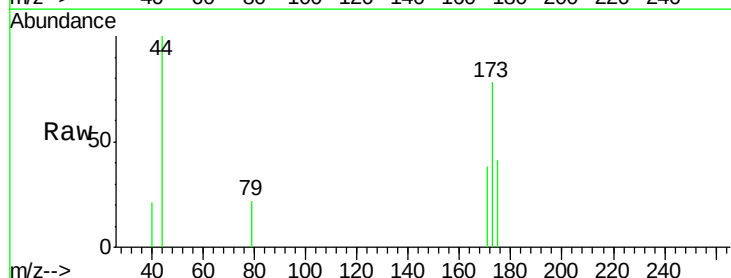
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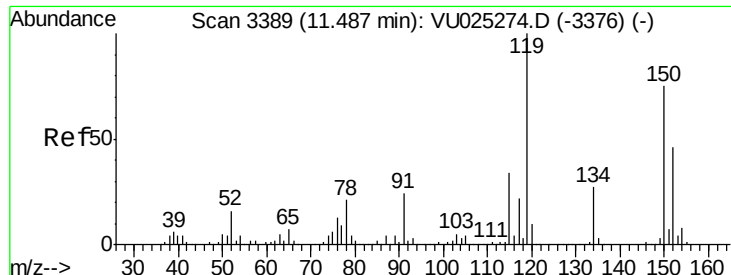
MMDadoda
7/13/2018 11:44:12 AM



#71
Bromoform
Concen: 4.881 ug/l
RT: 9.96 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VU025337.D
Acq: 12 Jul 2018 13:55

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	606		
175	46.0	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: VU025337.D

Acq: 12 Jul 2018 13:55

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 152 Resp: 110528

Ion Ratio Lower Upper

152 100

115 56.5 40.1 120.3

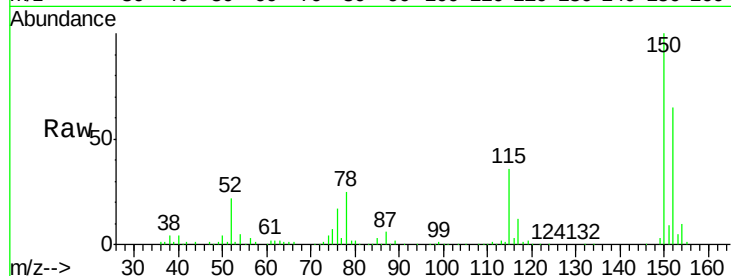
150 154.4 0.0 351.4

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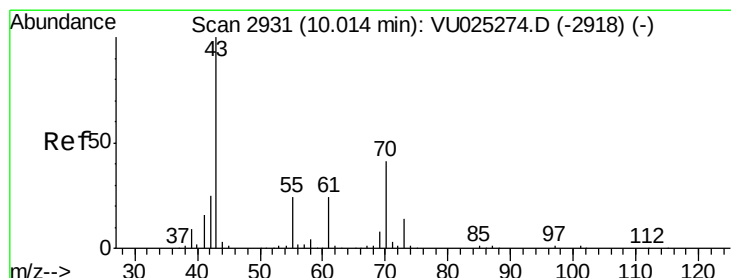
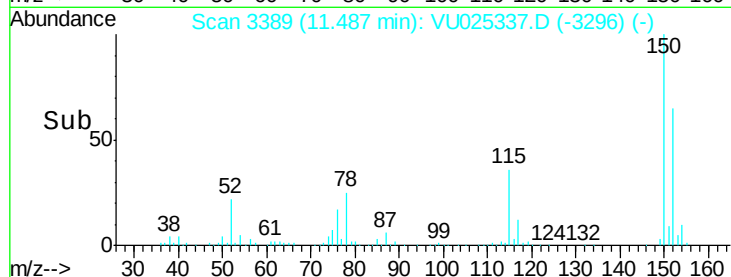
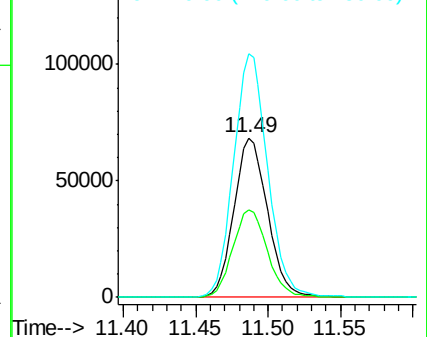
7/13/2018 11:44:12 AM



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



#74

N-ethyl acetate

Concen: 1.814 ug/l

RT: 10.02 min Scan# 2932

Delta R.T. 0.00 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Tgt Ion: 43 Resp: 1936

Ion Ratio Lower Upper

43 100

70 40.8 33.4 50.2

55 14.3 19.0 28.6#

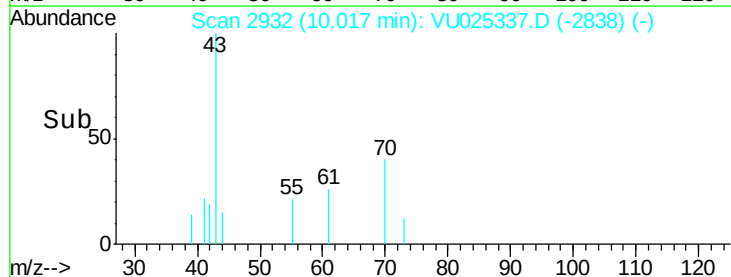
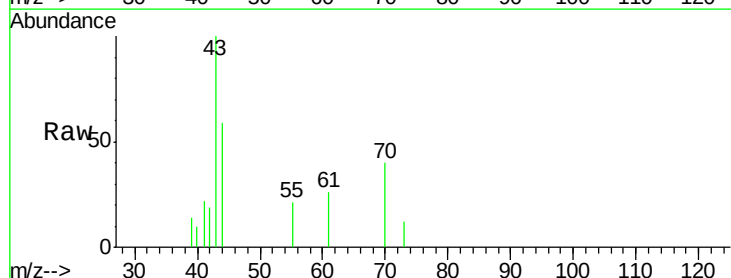
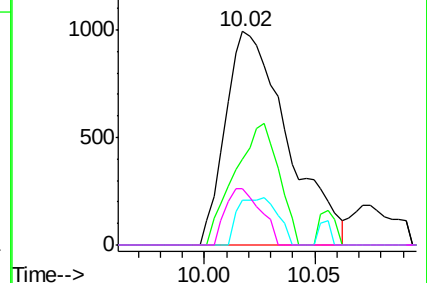
61 14.9 19.3 28.9#

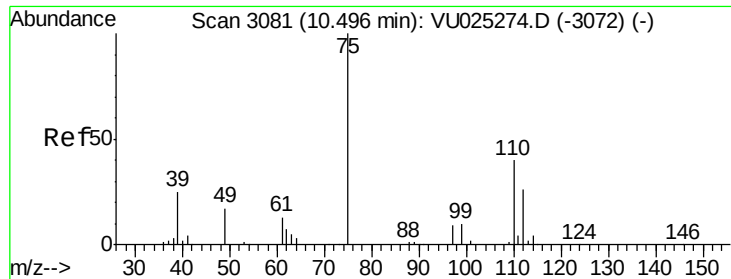
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





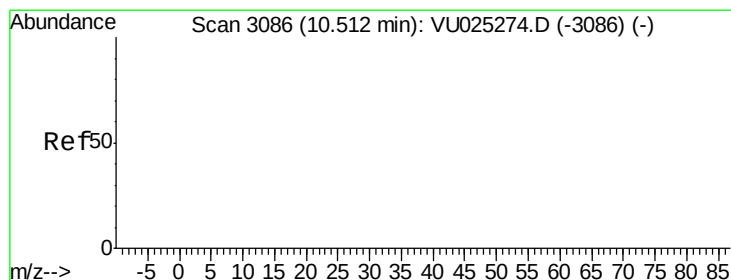
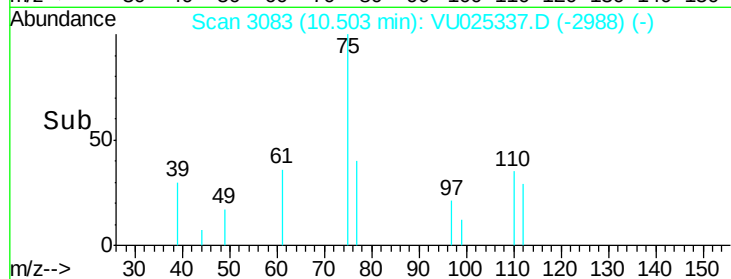
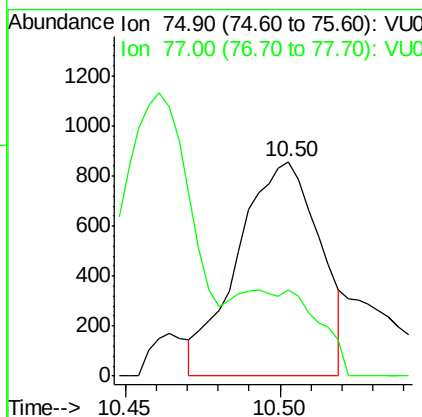
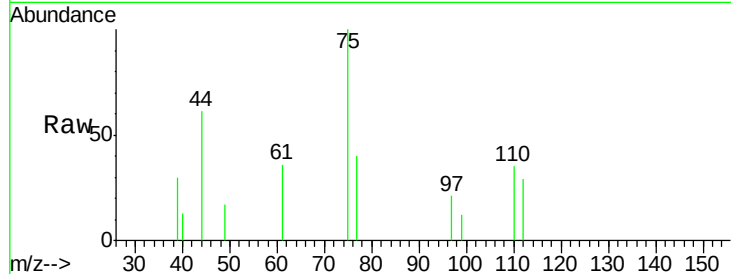
#76
 1,2,3-Trichloropropane
 Concen: 1.580 ug/l m
 RT: 10.50 min Scan# 3083
 Delta R.T. 0.01 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

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

Tot Ion: 75 Resp: 1573
 Ion Ratio Lower Upper
 75 100
 77 0.0 20.4 61.3#

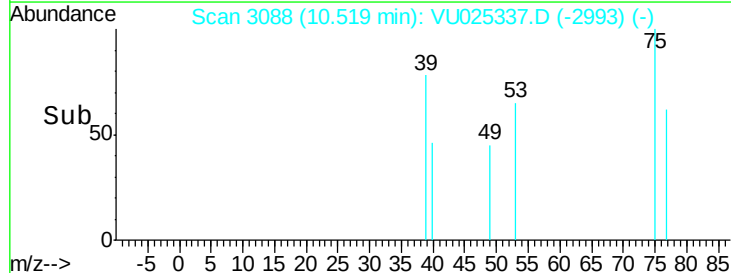
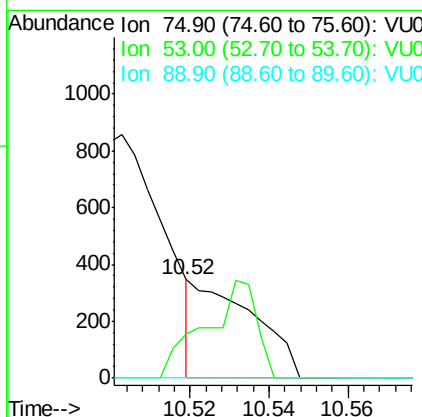
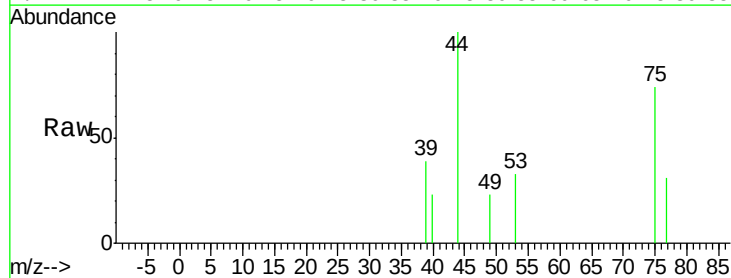
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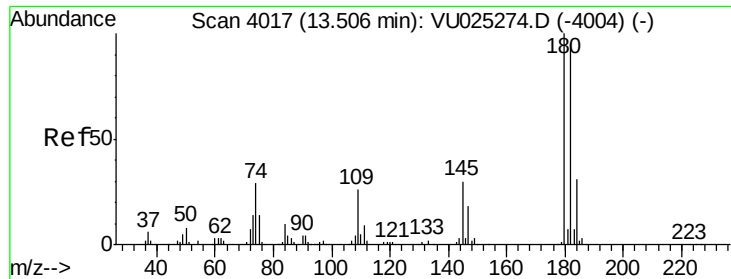
MMDadoda
 7/13/2018 11:44:12 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 0.413 ug/l m
 RT: 10.52 min Scan# 3088
 Delta R.T. 0.01 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

Tgt Ion: 75 Resp: 364
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





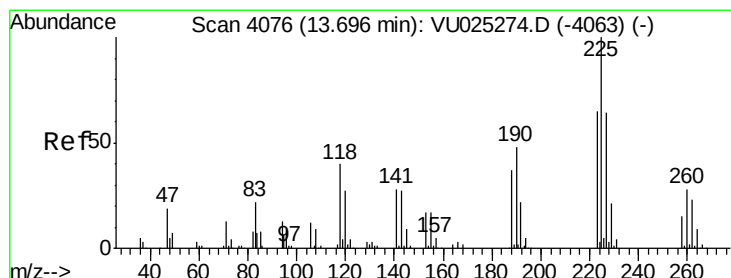
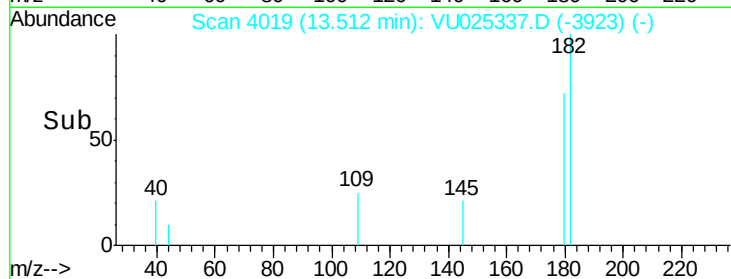
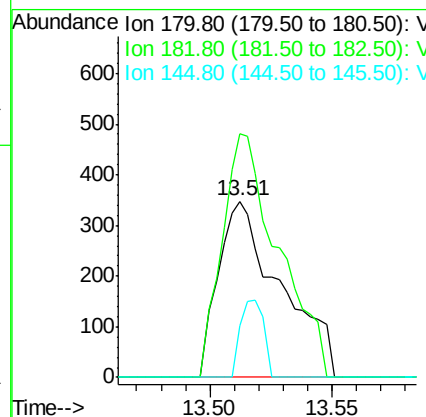
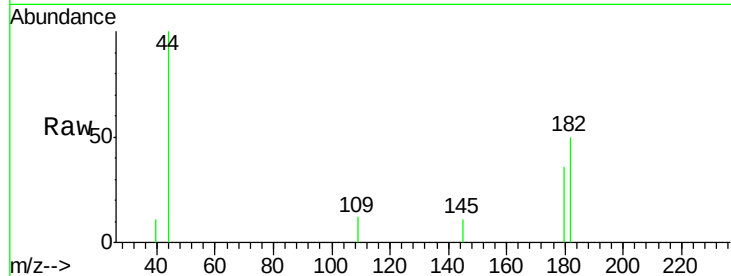
#93
 1,2,4-Trichlorobenzene
 Concen: 3.499 ug/l
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

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

Tot Ion:	180	Resp:	617
Ion Ratio	Lower	Upper	
180	100		
182	125.1	47.3	141.9
145	16.4	14.9	44.7

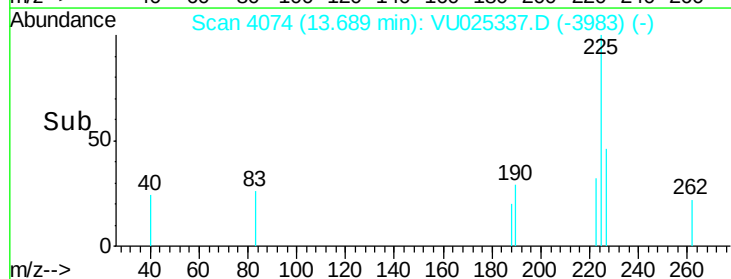
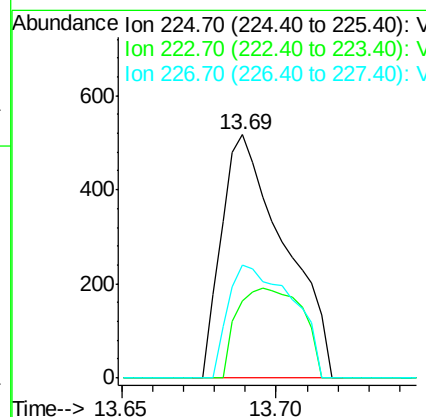
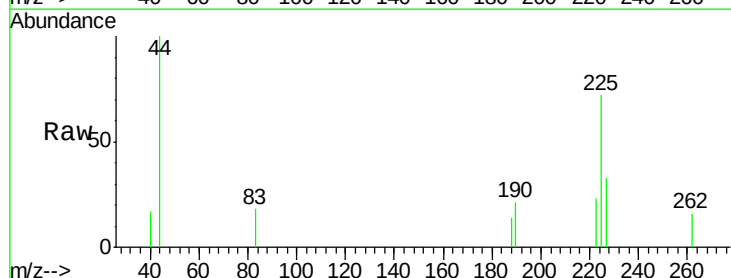
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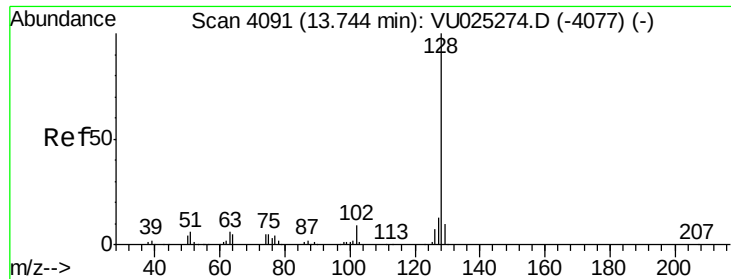
MMDadoda
 7/13/2018 11:44:12 AM



#94
 Hexachlorobutadiene
 Concen: 0.513 ug/l
 RT: 13.69 min Scan# 4074
 Delta R.T. -0.01 min
 Lab File: VU025337.D
 Acq: 12 Jul 2018 13:55

Tgt Ion:	225	Resp:	731
Ion Ratio	Lower	Upper	
225	100		
223	38.2	31.9	95.7
227	47.7	32.3	96.9





#95

Naphthalene

Concen: 2.677 ug/l

RT: 13.77 min Scan# 4099

Delta R.T. 0.03 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Instrument :

MSVOA_U

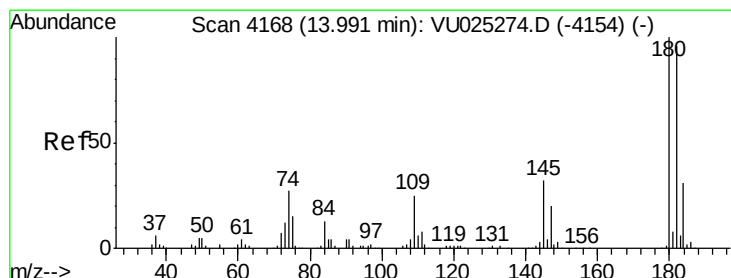
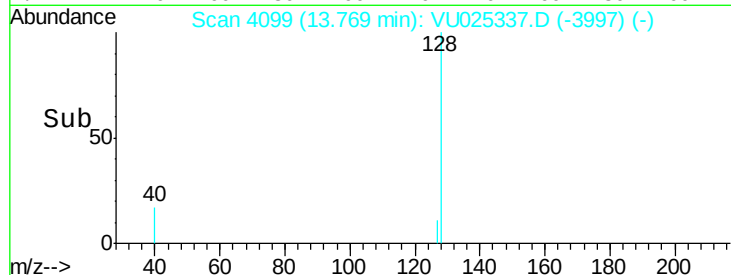
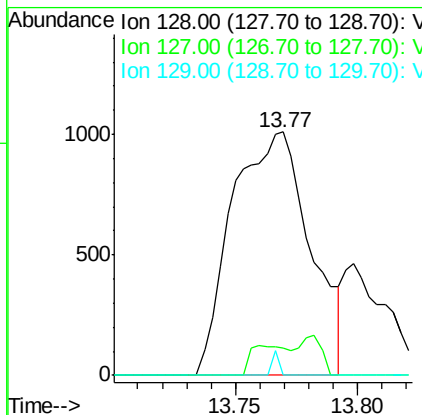
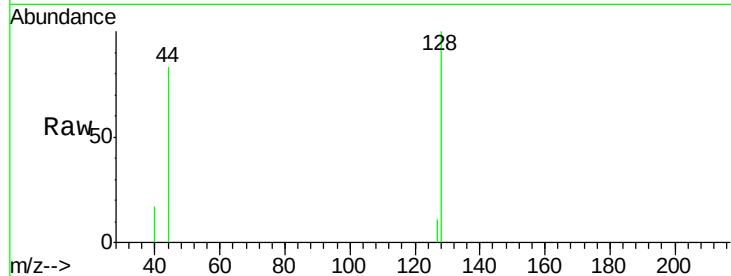
ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:	128	Resp:	2251
Ion Ratio	Lower	Upper	
128	100		
127	6.0	10.5	15.7#
129	0.9	8.3	12.5#

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#96

1,2,3-Trichlorobenzene

Concen: 2.776 ug/l

RT: 14.00 min Scan# 4171

Delta R.T. 0.01 min

Lab File: VU025337.D

Acq: 12 Jul 2018 13:55

Tgt Ion:	180	Resp:	704
Ion Ratio	Lower	Upper	
180	100		
182	116.9	47.8	143.3
145	22.0	15.6	46.8

