

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072718\
 Data File : VU025668.D
 Acq On : 27 Jul 2018 14:48
 Operator : MD/SY
 Sample : J3762-09 MDL 0.2PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Jul 28 03:34:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	158800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	241772	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	229645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	131893	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	129322	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
35) Dibromofluoromethane	4.89	113	104568	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
50) Toluene-d8	7.57	98	361087	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	10.31	95	130882	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	522	0.22	ug/l	77
3) Chloromethane	1.33	50	541	0.24	ug/l	95
4) Vinyl Chloride	1.40	62	506	0.23	ug/l #	43
5) Bromomethane	1.63	94	355	0.34	ug/l #	47
8) Diethyl Ether	2.11	74	265	0.23	ug/l #	33
9) 1,1,2-Trichlorotrifluoroet	2.29	101	605	0.33	ug/l #	64
10) Methyl Iodide	2.41	142	75	8.63	ug/l #	39
11) Tert butyl alcohol	2.83	59	1288	2.38	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	413	0.24	ug/l #	85
13) Acrolein	2.20	56	454	0.28	ug/l #	43
14) Allyl chloride	2.59	41	806	0.26	ug/l #	88
15) Acrylonitrile	2.95	53	1004	0.93	ug/l #	84
16) Acetone	2.33	43	1897	1.57	ug/l	95
17) Carbon Disulfide	2.48	76	2964	0.54	ug/l #	89
18) Methyl Acetate	2.61	43	661	0.23	ug/l #	67
20) Methylene Chloride	2.70	84	618	0.29	ug/l #	78
21) trans-1,2-Dichloroethene	2.98	96	722	0.37	ug/l #	80
23) Vinyl Acetate	3.54	43	5059	0.96	ug/l #	93
25) 2-Butanone	4.27	43	1121	0.68	ug/l	95
26) 2,2-Dichloropropane	4.24	77	730	0.22	ug/l #	53
29) Tetrahydrofuran	4.64	42	445	0.45	ug/l #	84
30) Chloroform	4.68	83	795	0.21	ug/l #	83
31) Cyclohexane	4.99	56	3354	Below Cal	#	7
36) 1,1-Dichloropropene	4.99	75	11376	4.03	ug/l #	49
39) Methylcyclohexane	6.42	83	918	0.28	ug/l	92
40) Benzene	5.40	78	1677	0.20	ug/l #	82
44) Trichloroethene	6.19	130	666	0.29	ug/l	89
49) 1,4-Dioxane	6.63	88	46	0.80	ug/l #	22
51) 4-Methyl-2-Pentanone	7.46	43	2660	0.88	ug/l	93
57) 1,3-Dichloropropane	8.25	76	738	0.21	ug/l #	72
58) 2-Chloroethyl Vinyl ether	7.14	63	932	7.73	ug/l	92
59) 2-Hexanone	8.37	43	2309	0.97	ug/l	80
65) Chlorobenzene	9.12	112	1424	0.24	ug/l	95
67) Ethyl Benzene	9.26	91	2508	0.26	ug/l	96

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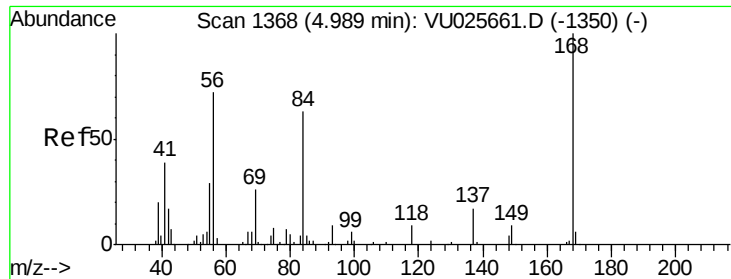
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

68) m/p-Xylenes	9.38	106	1739	0.46	ug/l	98
70) Styrene	9.80	104	1308	0.22	ug/l #	84
73) Isopropylbenzene	10.17	105	1973	0.22	ug/l	91
74) N-amyl acetate	10.02	43	852	0.23	ug/l #	60
76) 1,2,3-Trichloropropane	10.31	75	65771	22.63	ug/l #	36
77) Bromobenzene	10.46	156	611	0.25	ug/l	76
78) n-propylbenzene	10.59	91	3034	0.29	ug/l	99
79) 2-Chlorotoluene	10.66	91	1614	0.26	ug/l	87
80) 1,3,5-Trimethylbenzene	10.78	105	1772	0.23	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	65771	56.75	ug/l #	100
82) 4-Chlorotoluene	10.78	91	1971	0.27	ug/l	93
85) sec-Butylbenzene	11.33	105	2197	0.24	ug/l	94
86) p-Isopropyltoluene	11.48	119	2035	0.25	ug/l #	82
87) 1,3-Dichlorobenzene	11.42	146	1582	0.34	ug/l	93
88) 1,4-Dichlorobenzene	11.42	146	1582	0.33	ug/l	94
89) n-Butylbenzene	11.90	91	2149	0.28	ug/l	86
91) 1,2-Dichlorobenzene	11.89	146	1270	0.28	ug/l	93
93) 1,2,4-Trichlorobenzene	13.52	180	895	0.29	ug/l	86
94) Hexachlorobutadiene	13.69	225	366	0.23	ug/l	77
95) Naphthalene	13.76	128	1378	1.39	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.00	180	864	0.28	ug/l	80

(#) = 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: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

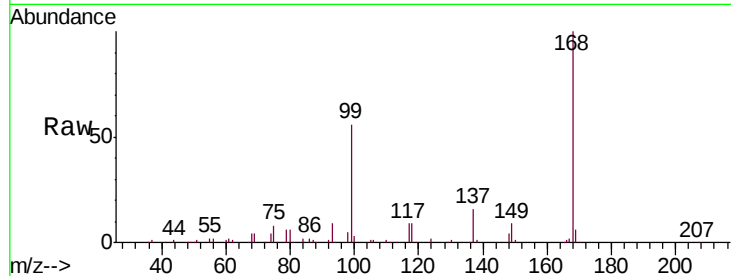
MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 158800

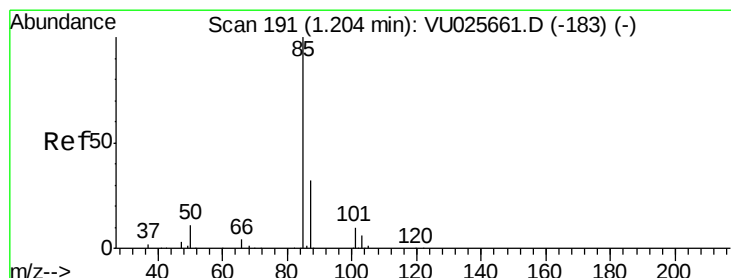
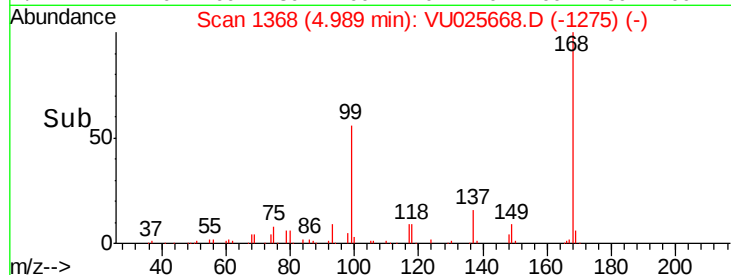
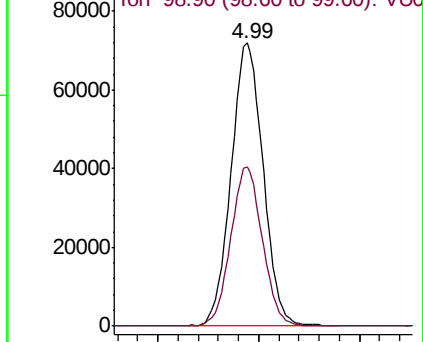
Ion Ratio Lower Upper

168 100

99 56.3 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025668.D (-1275) (-)



#2

Dichlorodifluoromethane

Concen: 0.22 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025668.D

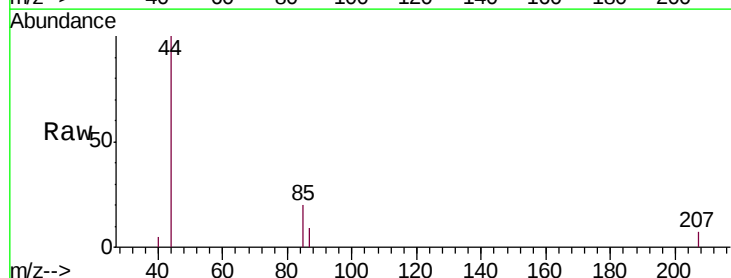
Acq: 27 Jul 2018 14:48

Tgt Ion: 85 Resp: 522

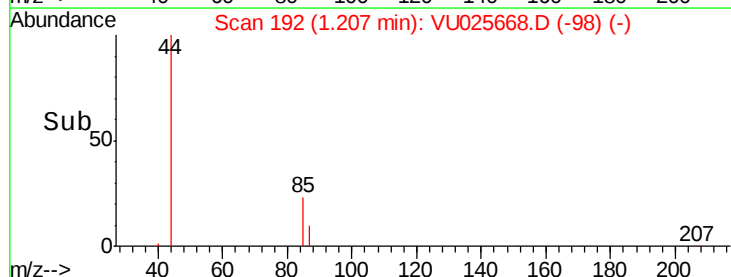
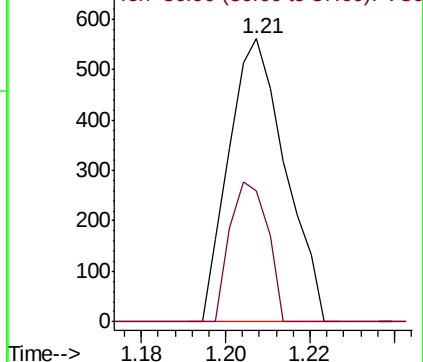
Ion Ratio Lower Upper

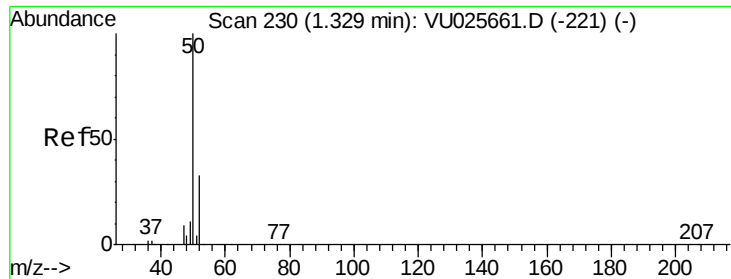
85 100

87 46.2 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025668.D (-98) (-)





#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

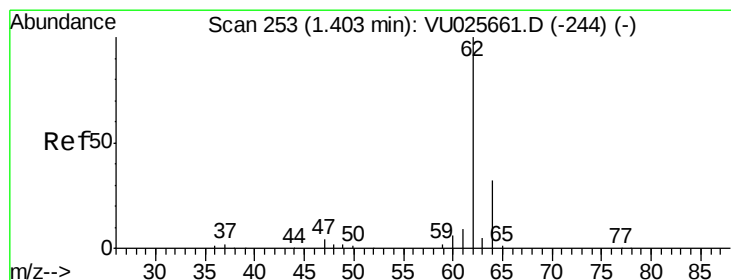
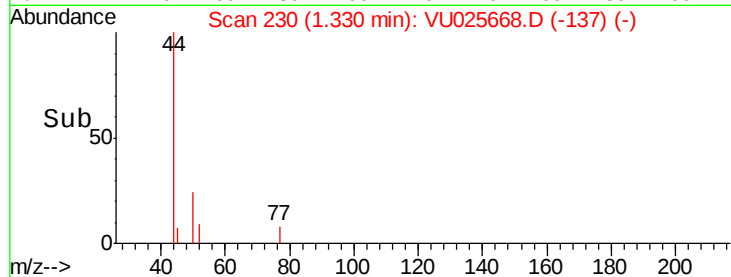
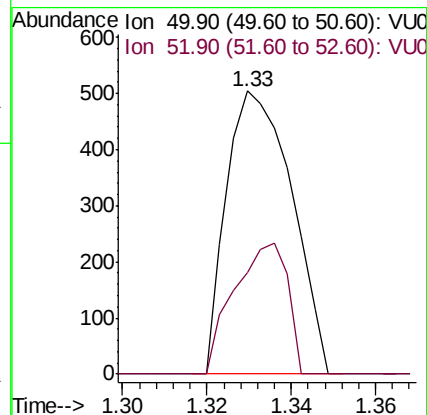
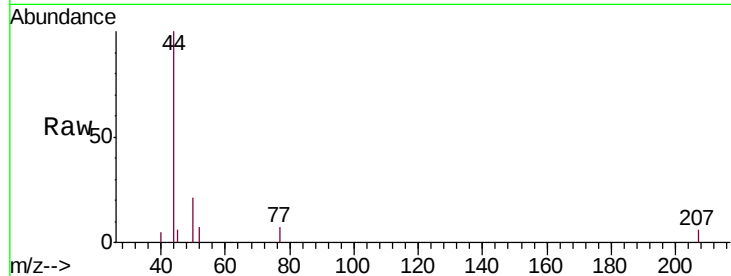
MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 541

Ion Ratio Lower Upper

50 100

52 35.9 26.5 39.7



#4

Vinyl Chloride

Concen: 0.23 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025668.D

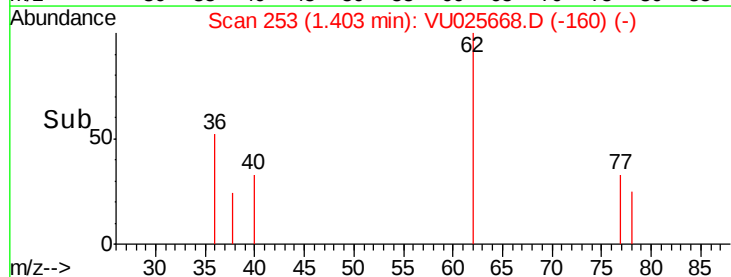
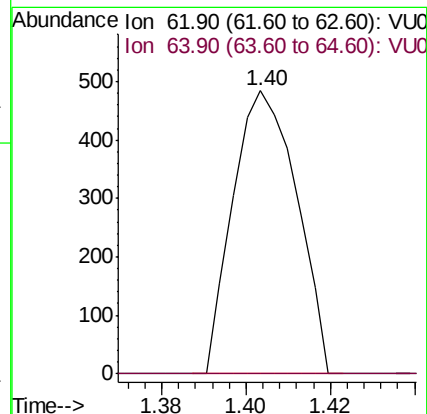
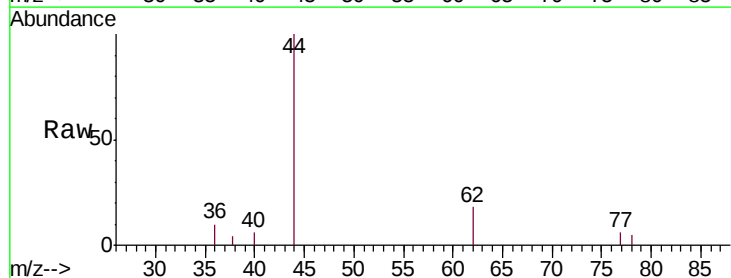
Acq: 27 Jul 2018 14:48

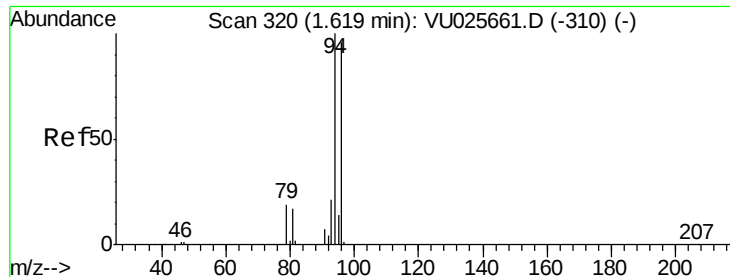
Tgt Ion: 62 Resp: 506

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.0#





#5

Bromomethane

Concen: 0.34 ug/l

RT: 1.63 min Scan# 325

Delta R.T. 0.02 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

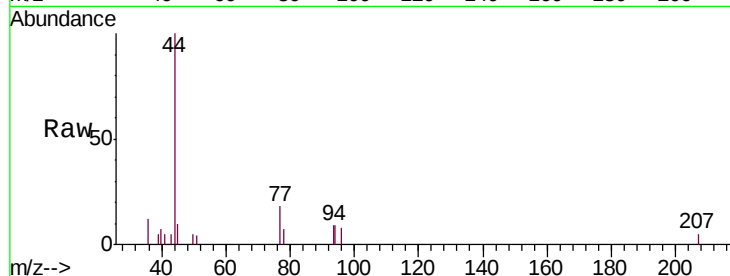
MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 355

Ion Ratio Lower Upper

94 100

96 42.8 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

400

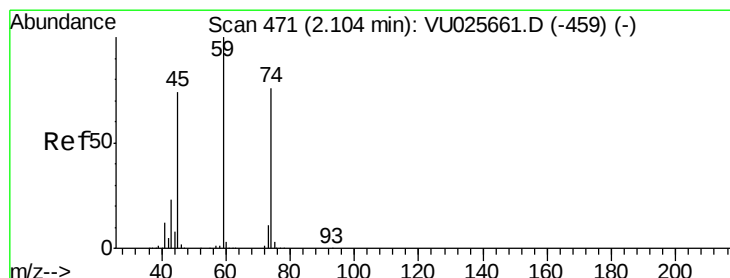
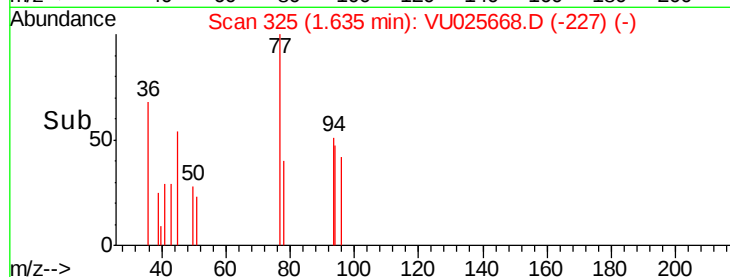
300

200

100

0

Time--> 1.60 1.62 1.64 1.66



#8

Diethyl Ether

Concen: 0.23 ug/l

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU025668.D

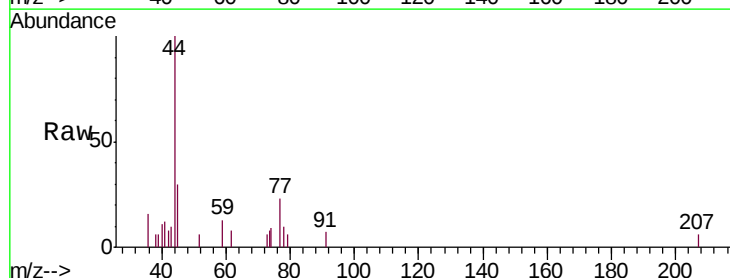
Acq: 27 Jul 2018 14:48

Tgt Ion: 74 Resp: 265

Ion Ratio Lower Upper

74 100

45 30.9 48.3 144.9#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

2.11

600

500

400

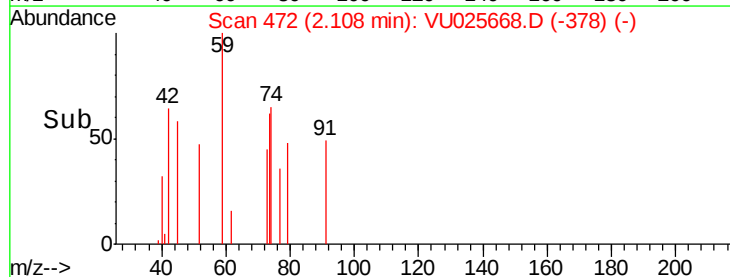
300

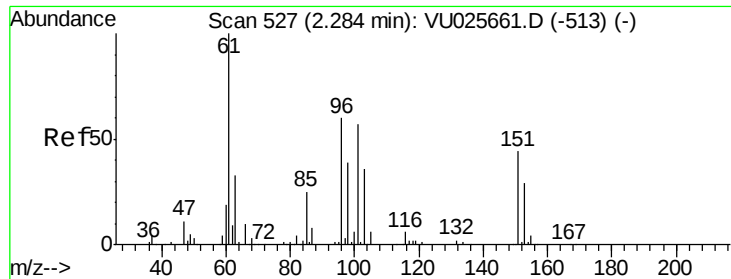
200

100

0

Time--> 2.08 2.10 2.12





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.33 ug/l

RT: 2.29 min Scan# 529

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

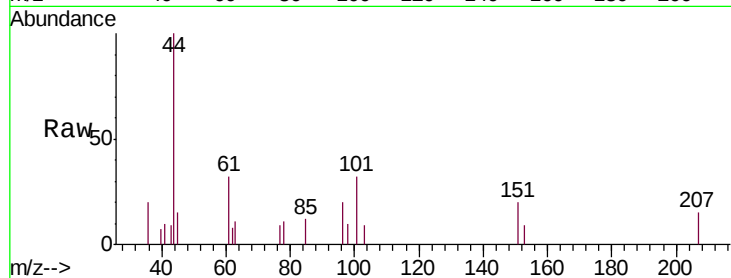
Tot Ion:101 Resp: 605

Ion Ratio Lower Upper

101 100

85 27.3 36.0 54.0#

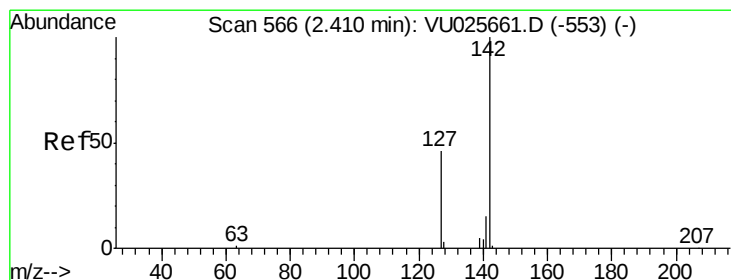
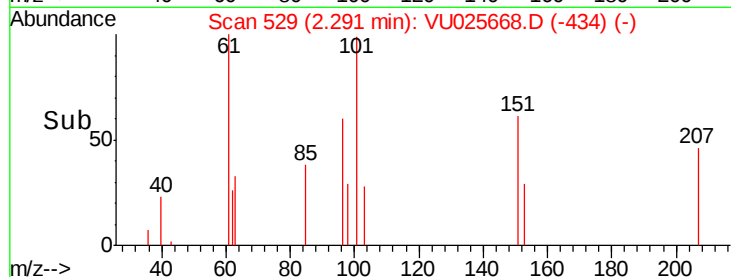
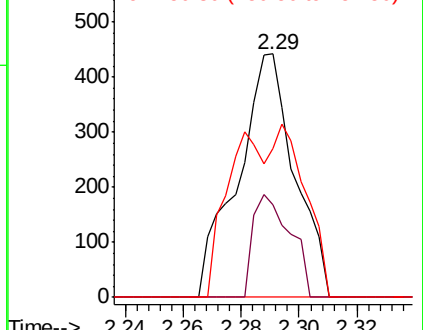
151 45.1 65.6 98.4#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 8.63 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

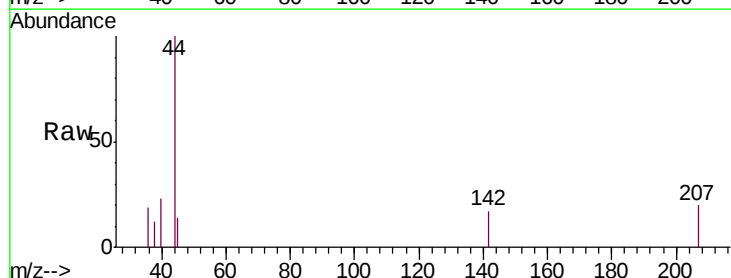
Tgt Ion:142 Resp: 75

Ion Ratio Lower Upper

142 100

127 0.0 36.5 54.7#

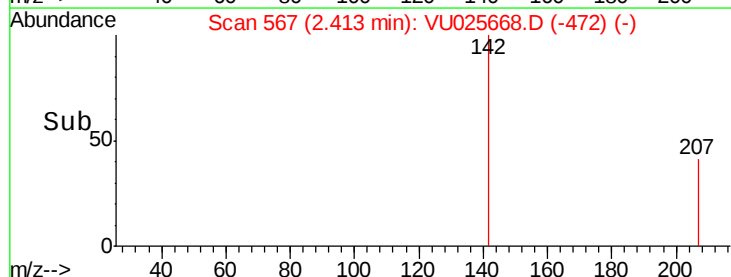
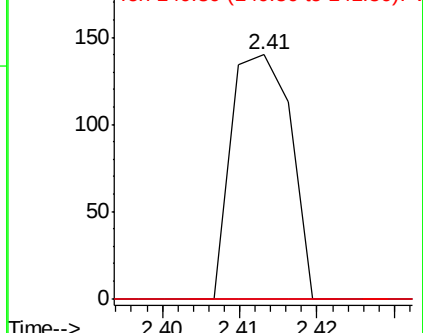
141 0.0 11.4 17.2#

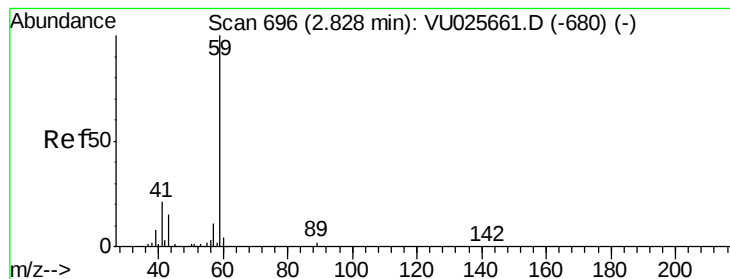


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



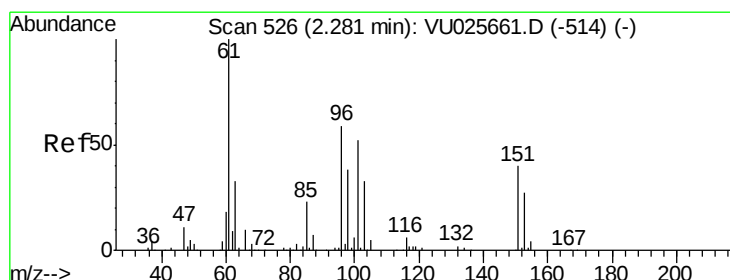
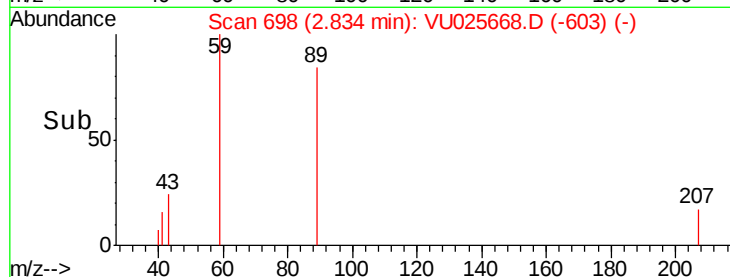
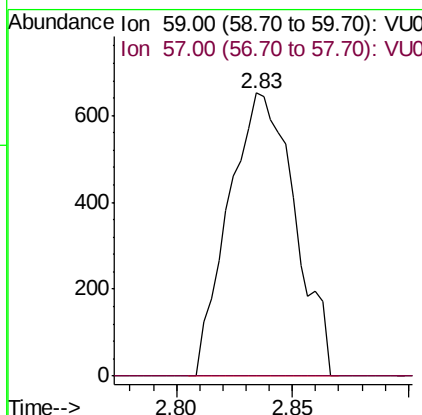
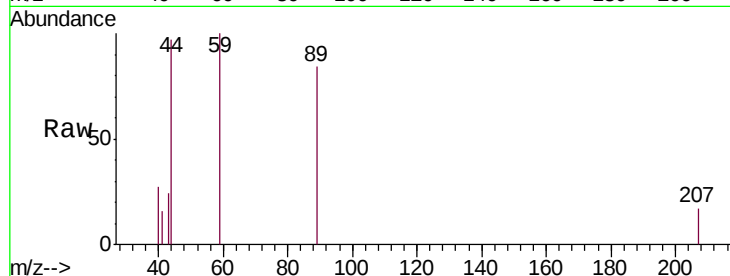


#11

Tert butyl alcohol
 Concen: 2.38 ug/l
 RT: 2.83 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

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 MDL-WATER-03-QT3-2018

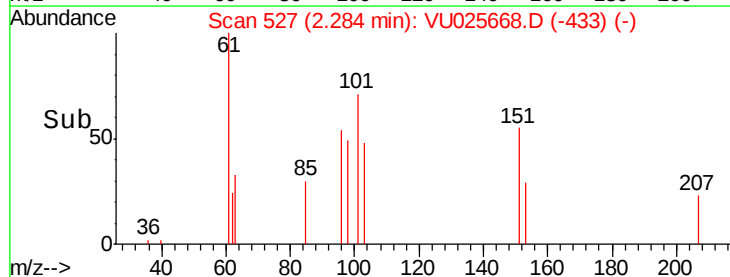
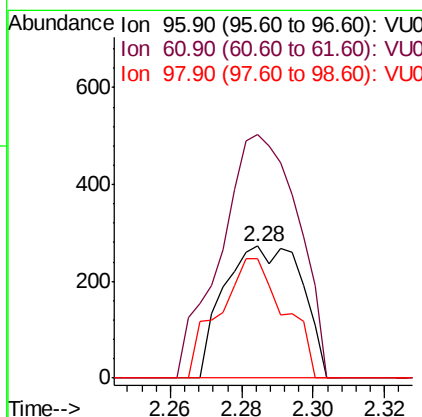
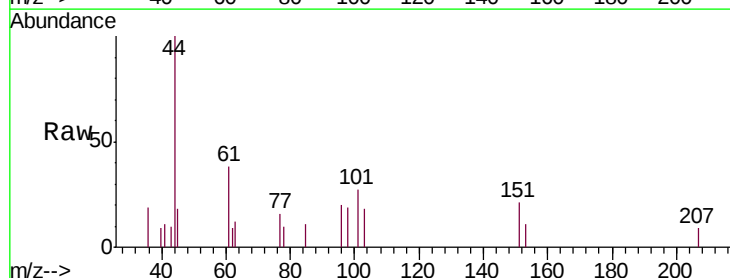
Tot Ion: 59 Resp: 1288
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

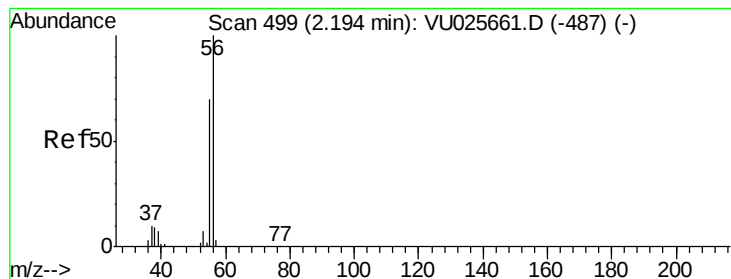


#12

1,1-Dichloroethene
 Concen: 0.24 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion: 96 Resp: 413
 Ion Ratio Lower Upper
 96 100
 61 184.9 140.2 210.4
 98 91.2 49.3 73.9#





#13

Acrolein

Concen: 0.28 ug/l

RT: 2.20 min Scan# 501

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

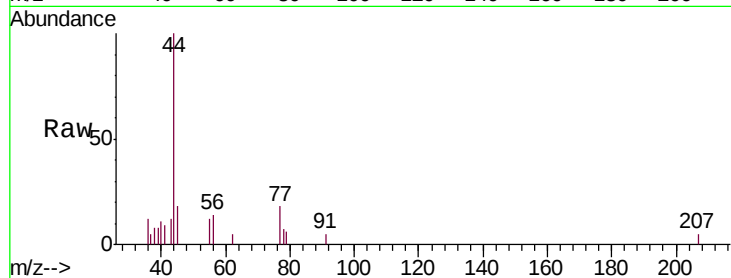
MDL-WATER-03-QT3-2018

Tot Ion: 56 Resp: 454

Ion Ratio Lower Upper

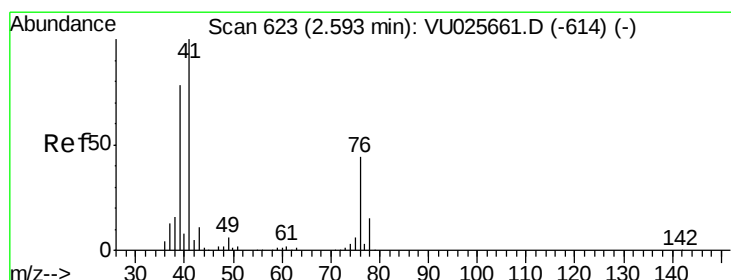
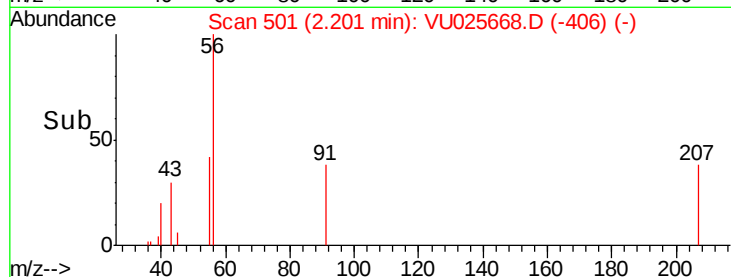
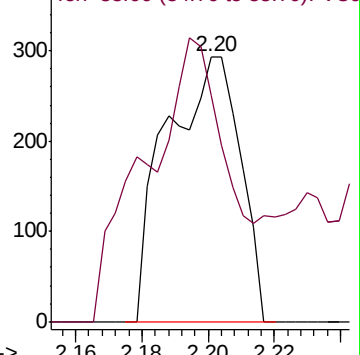
56 100

55 118.9 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 0.26 ug/l

RT: 2.59 min Scan# 623

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

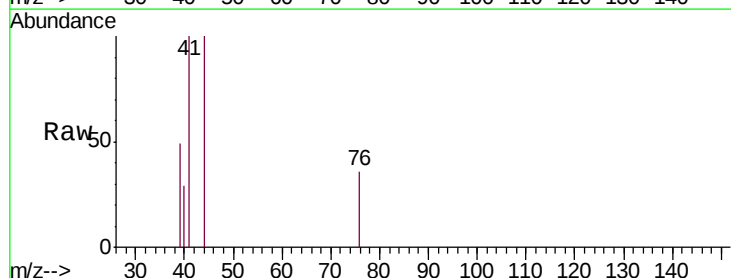
Tgt Ion: 41 Resp: 806

Ion Ratio Lower Upper

41 100

39 73.4 60.6 91.0

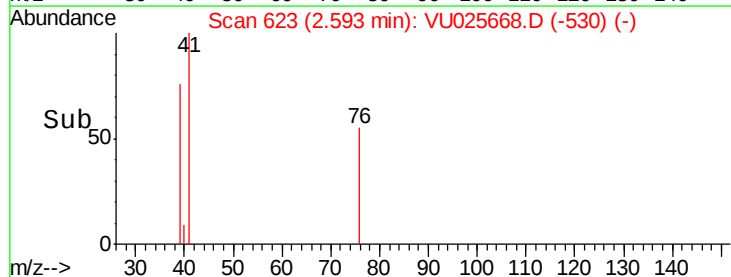
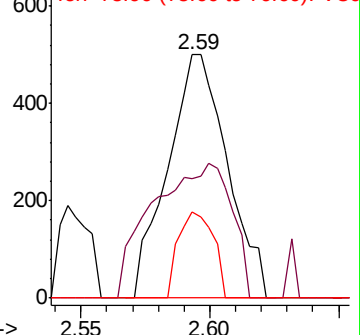
76 20.6 30.5 45.7#

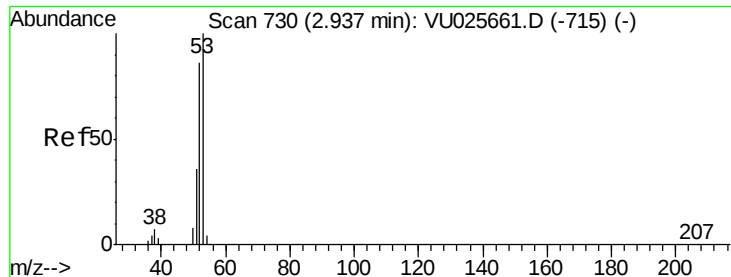


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 0.93 ug/l

RT: 2.95 min Scan# 733

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

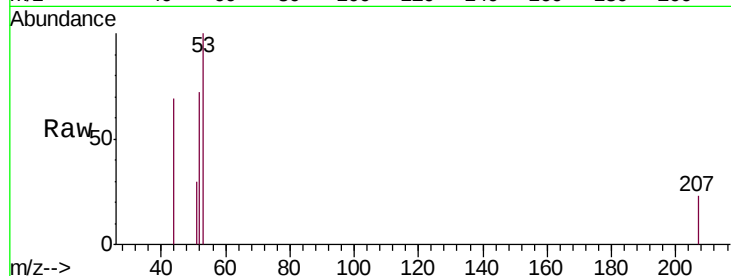
Tot Ion: 53 Resp: 1004

Ion Ratio Lower Upper

53 100

52 72.6 66.6 99.8

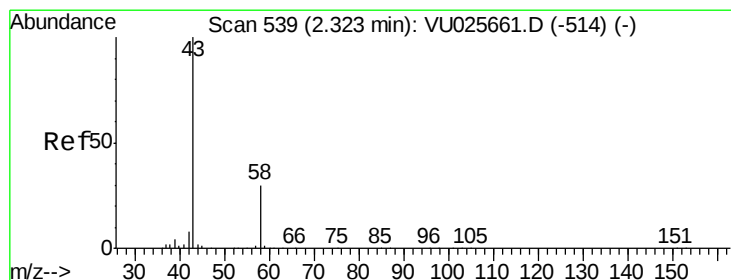
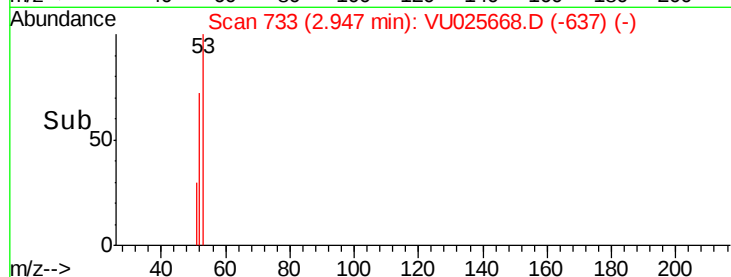
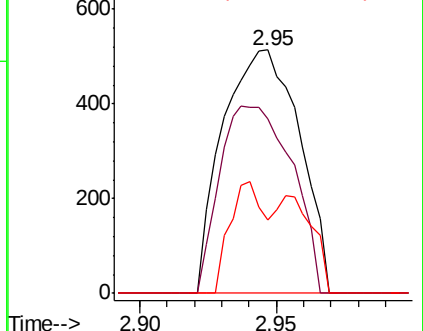
51 20.7 29.4 44.2#



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: 1.57 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU025668.D

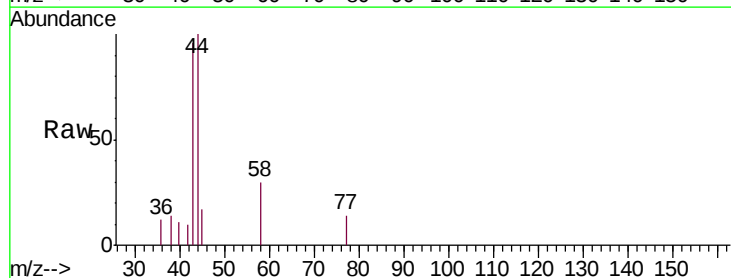
Acq: 27 Jul 2018 14:48

Tgt Ion: 43 Resp: 1897

Ion Ratio Lower Upper

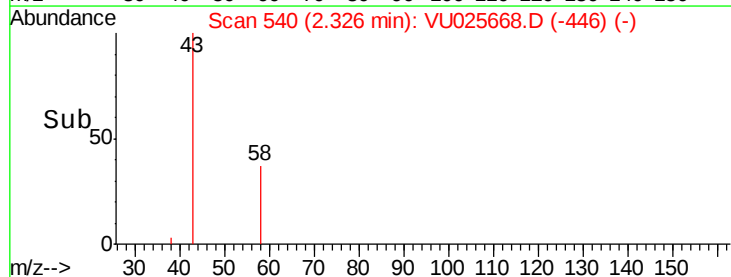
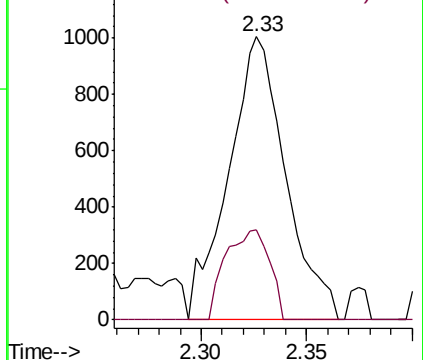
43 100

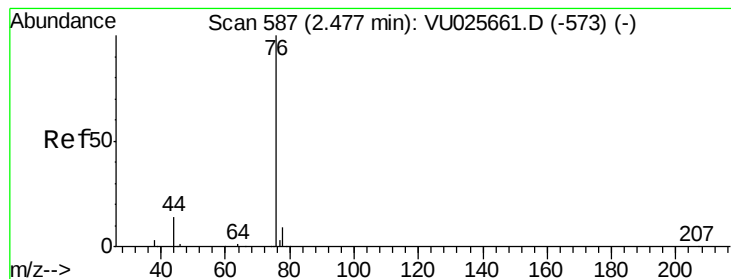
58 31.7 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 0.54 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

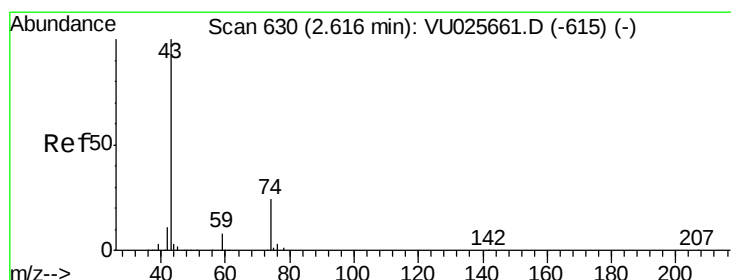
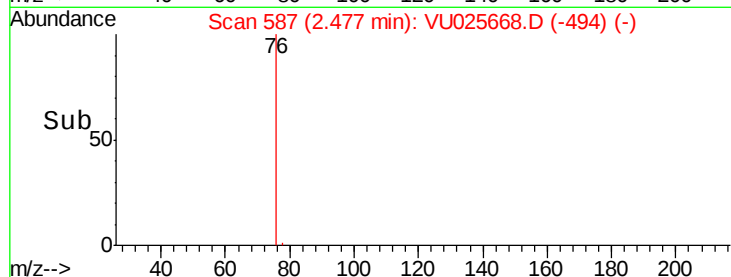
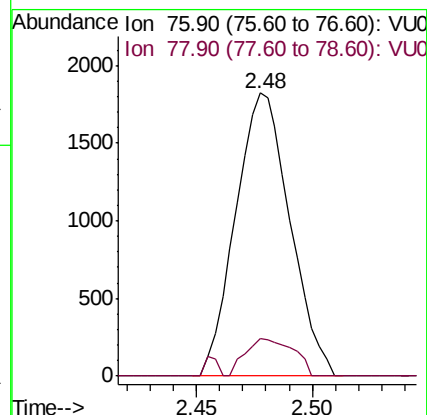
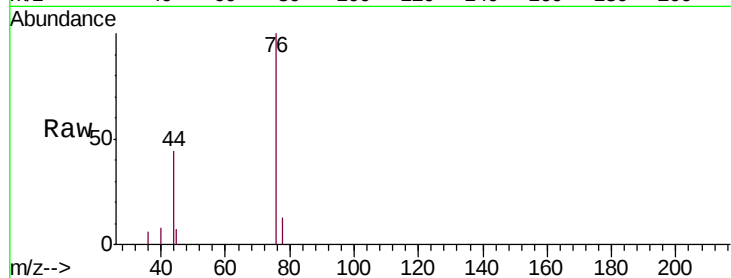
MDL-WATER-03-QT3-2018

Tot Ion: 76 Resp: 2964

Ion Ratio Lower Upper

76 100

78 13.3 7.4 11.2#



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.61 min Scan# 629

Delta R.T. -0.00 min

Lab File: VU025668.D

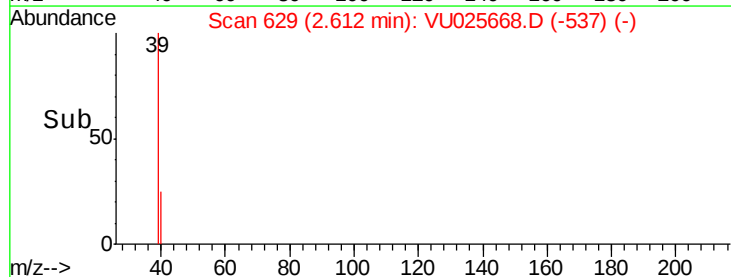
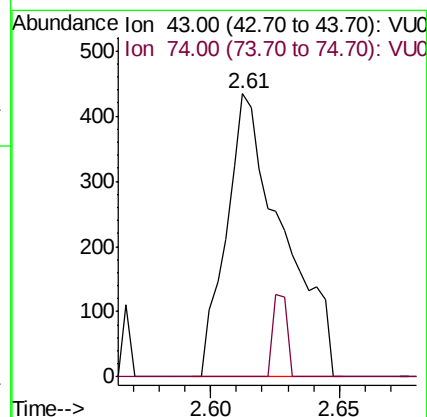
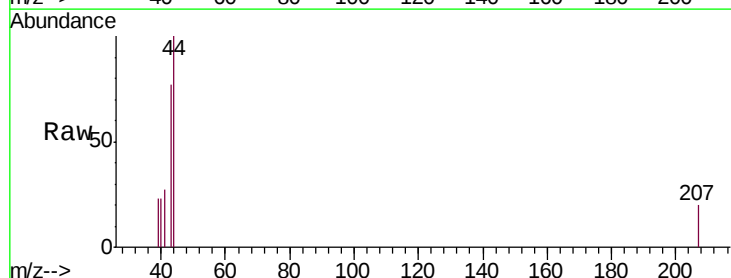
Acq: 27 Jul 2018 14:48

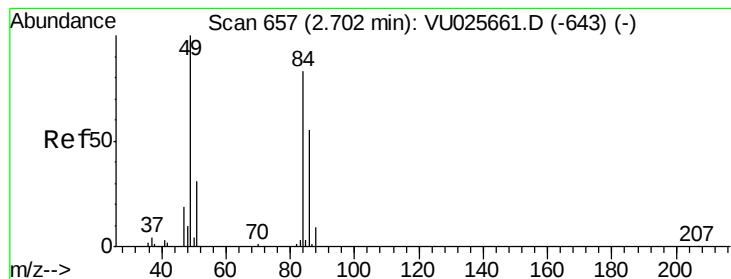
Tgt Ion: 43 Resp: 661

Ion Ratio Lower Upper

43 100

74 7.3 18.5 27.7#





#20

Methylene Chloride

Concen: 0.29 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 84 Resp: 618

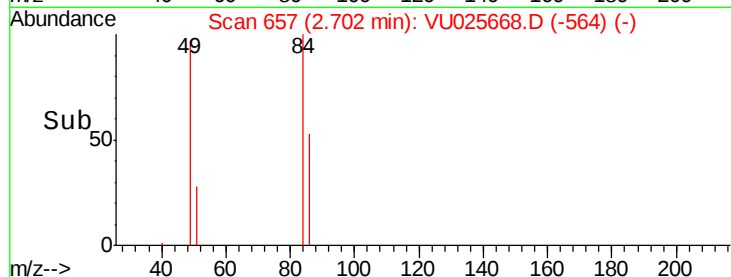
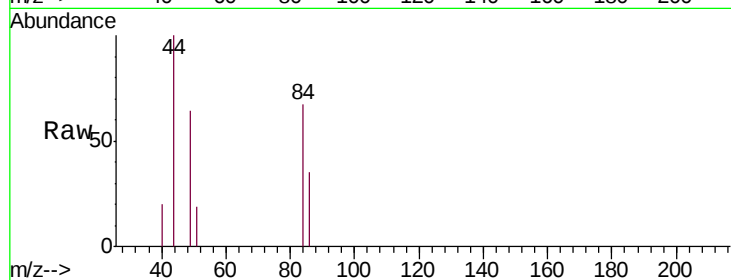
Ion Ratio Lower Upper

84 100

49 96.6 101.8 152.6#

51 28.2 30.8 46.2#

86 52.7 51.9 77.9

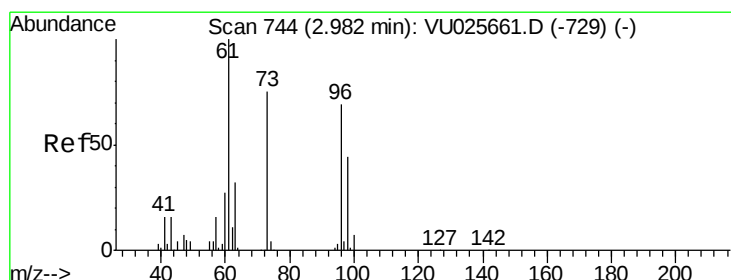
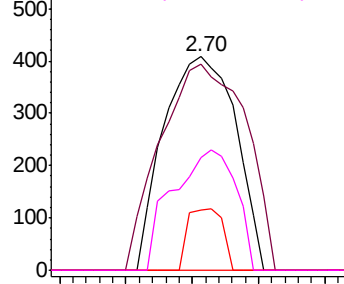


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#21

trans-1,2-Dichloroethene

Concen: 0.37 ug/l

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

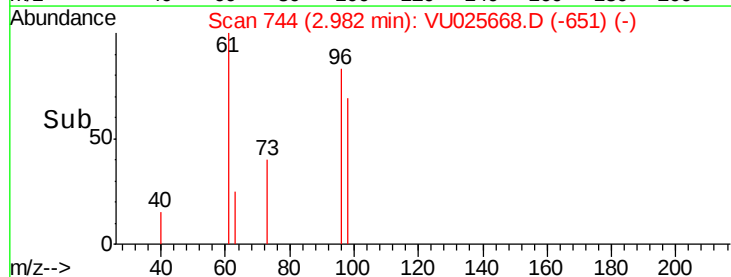
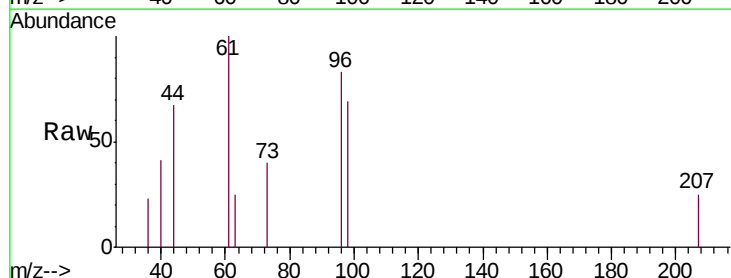
Tgt Ion: 96 Resp: 722

Ion Ratio Lower Upper

96 100

61 120.9 114.5 171.7

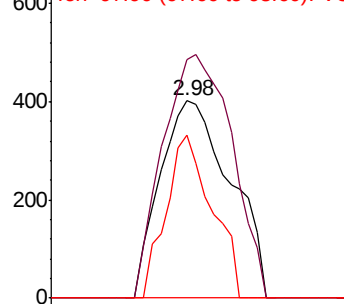
98 83.0 50.5 75.7#

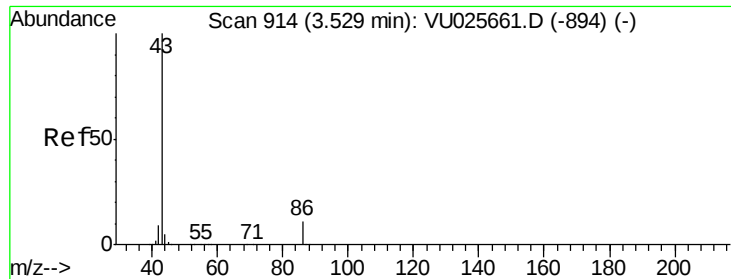


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

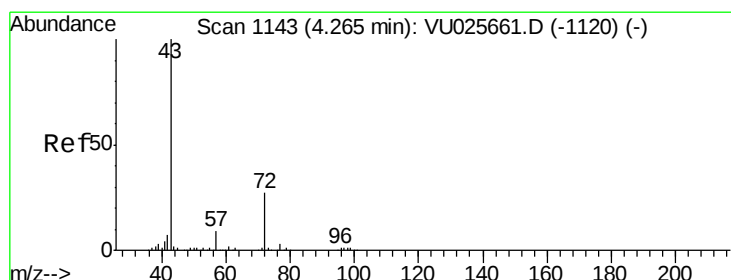
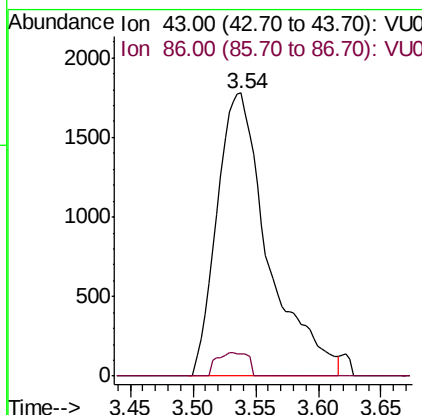
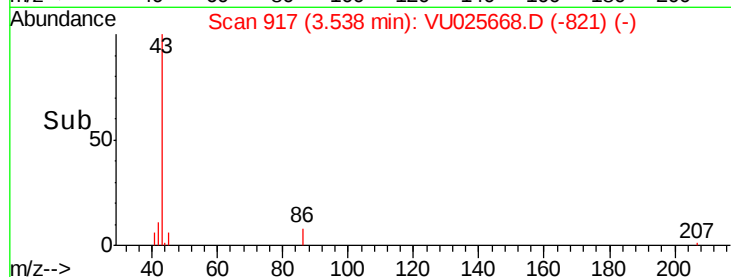
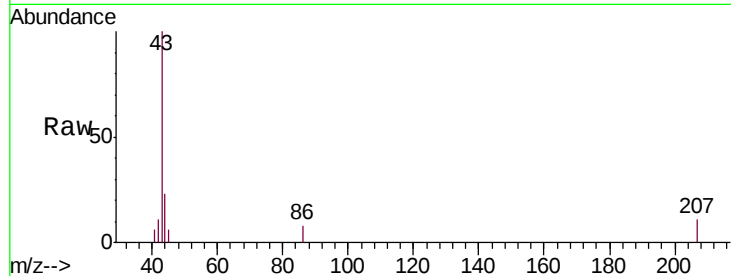




#23
 Vinyl Acetate
 Concen: 0.96 ug/l
 RT: 3.54 min Scan# 917
 Delta R.T. 0.01 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

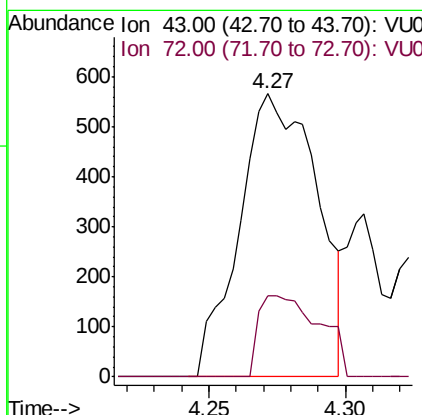
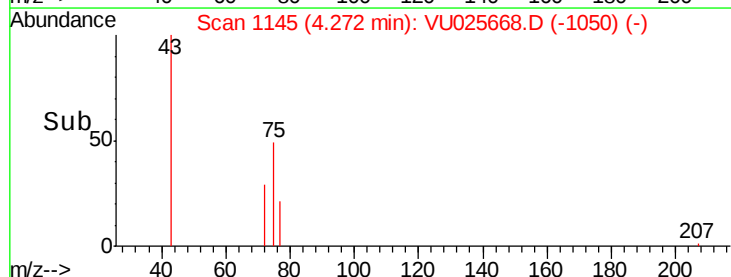
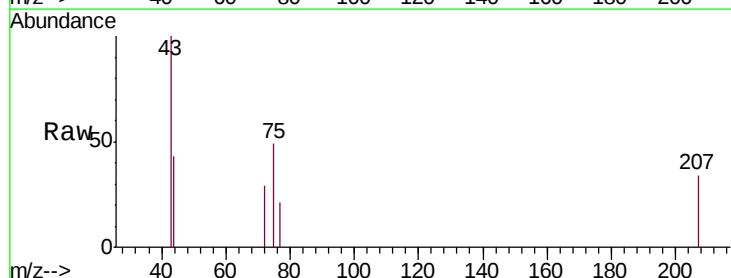
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

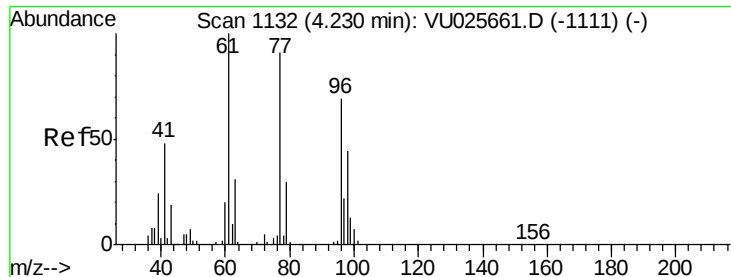
Tot Ion: 43 Resp: 5059
 Ion Ratio Lower Upper
 43 100
 86 7.8 8.2 12.2#



#25
 2-Butanone
 Concen: 0.68 ug/l
 RT: 4.27 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion: 43 Resp: 1121
 Ion Ratio Lower Upper
 43 100
 72 28.6 21.0 31.4





#26

2,2-Dichloropropane

Concen: 0.22 ug/l

RT: 4.24 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

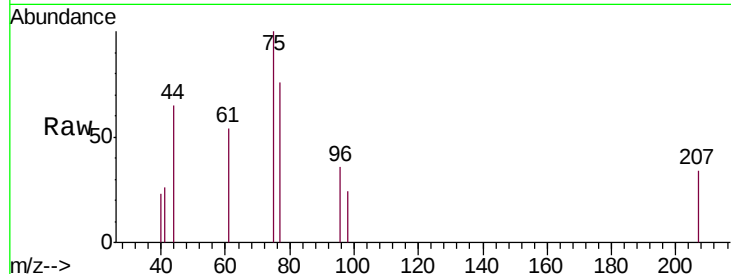
MDL-WATER-03-QT3-2018

Tot Ion: 77 Resp: 730

Ion Ratio Lower Upper

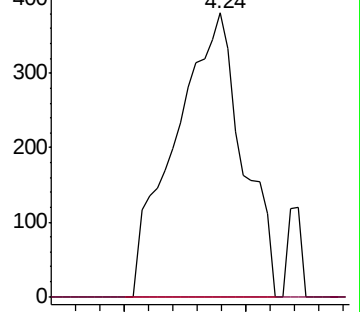
77 100

97 0.0 11.2 33.5#

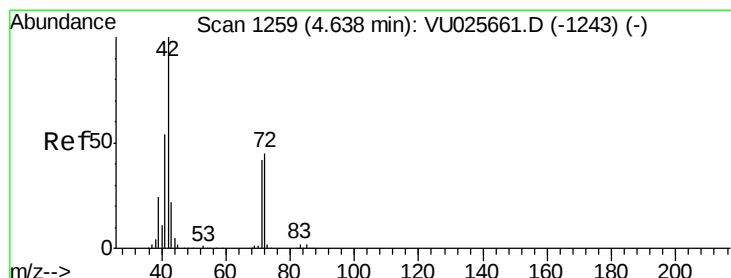
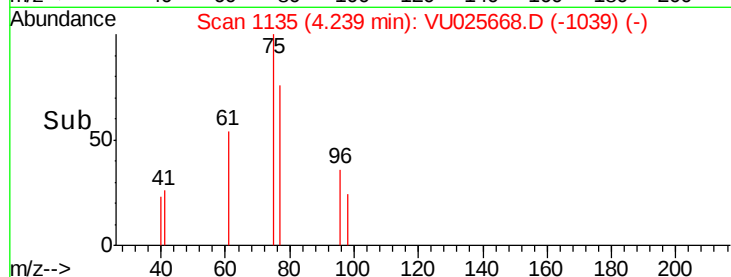


Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0



Time-->



#29

Tetrahydrofuran

Concen: 0.45 ug/l

RT: 4.64 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

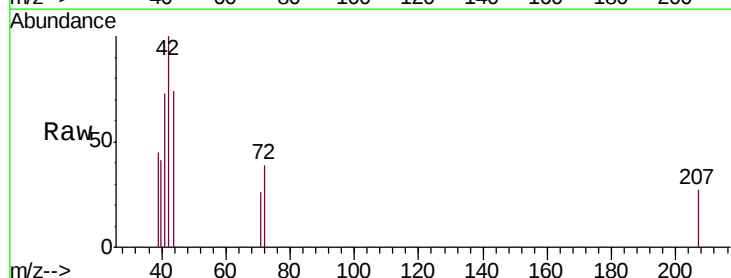
Tgt Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 51.5 36.7 55.1

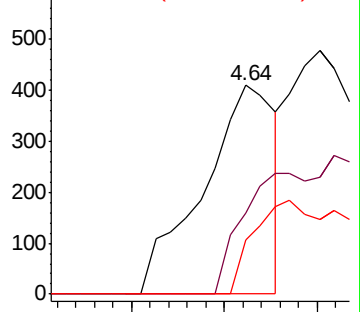
71 57.3 33.9 50.9#



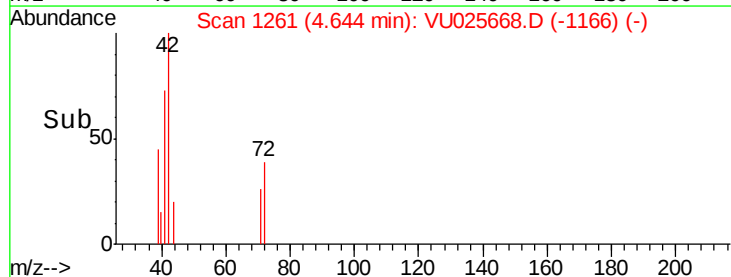
Abundance Ion 42.00 (41.70 to 42.70): VU0

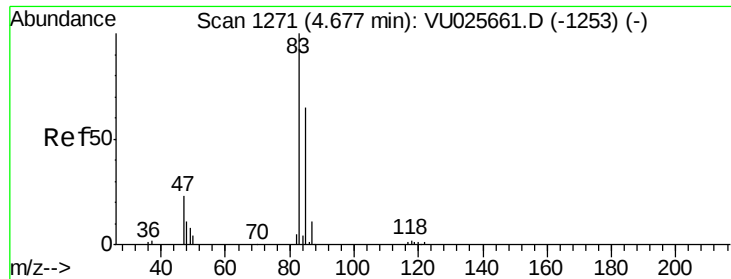
Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



Time-->

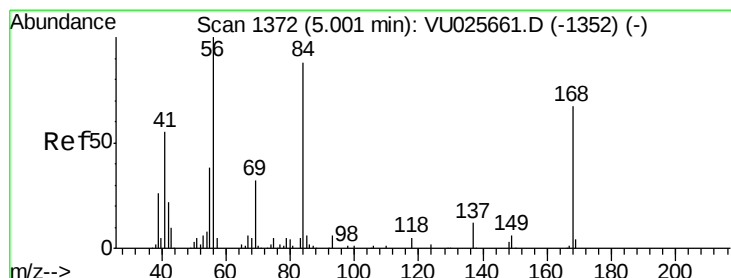
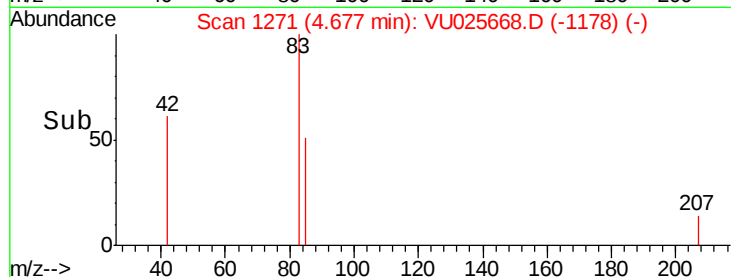
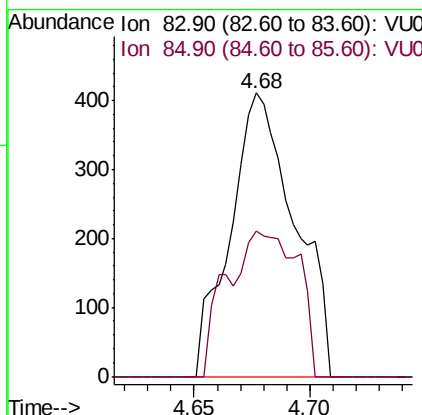
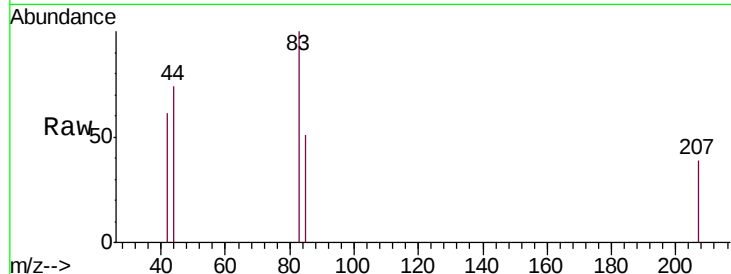




#30
Chloroform
Concen: 0.21 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

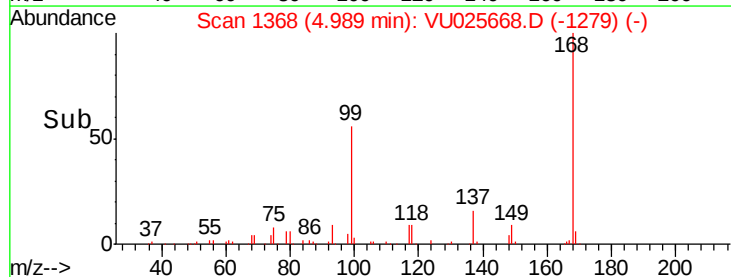
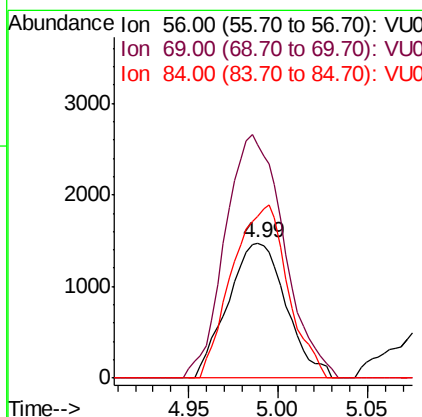
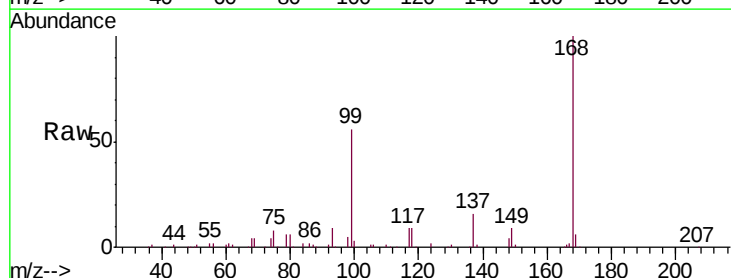
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

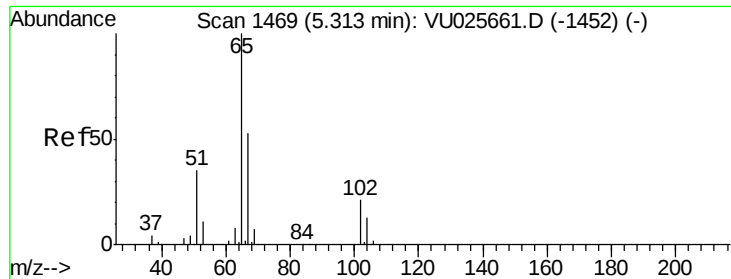
Tot Ion: 83 Resp: 795
Ion Ratio Lower Upper
83 100
85 51.1 51.5 77.3#



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion: 56 Resp: 3354
Ion Ratio Lower Upper
56 100
69 172.8 26.8 40.2#
84 119.7 69.7 104.5#

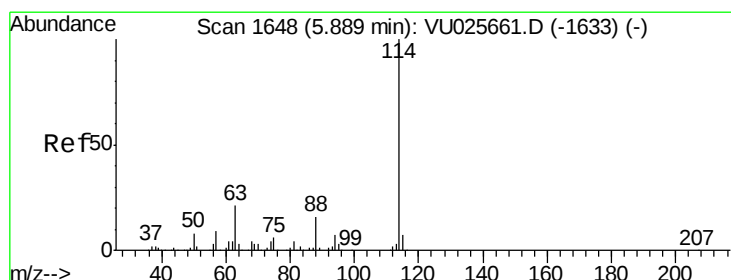
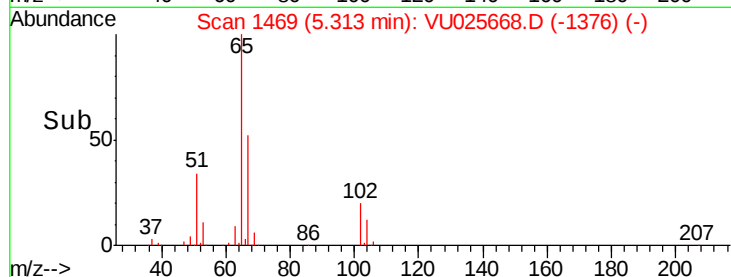
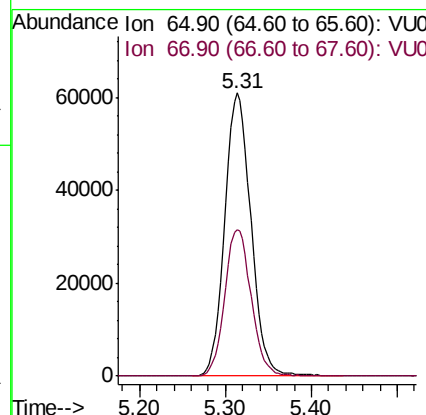
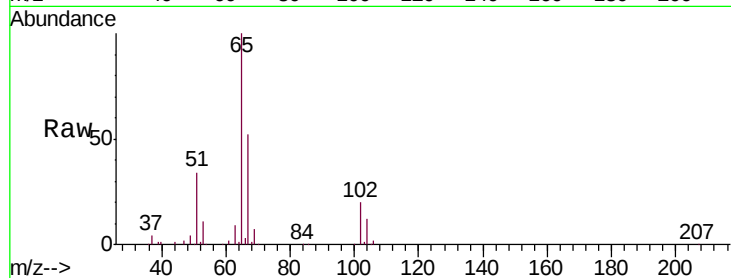




#33
 1,2-Dichloroethane-d4
 Concen: 52.27 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

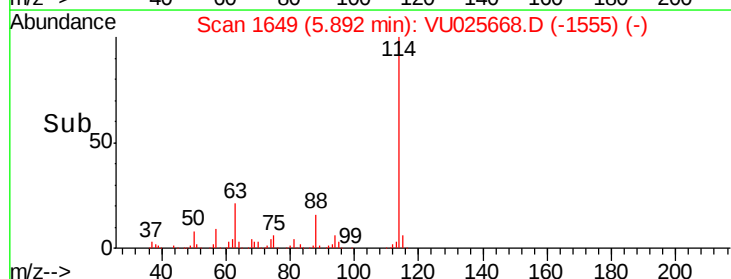
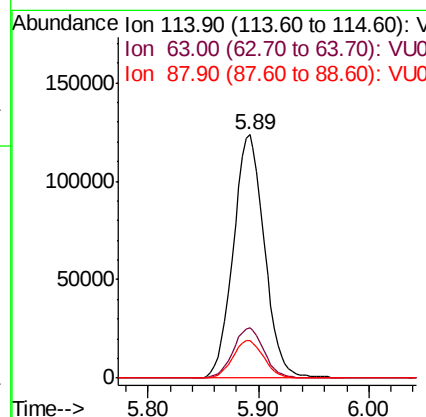
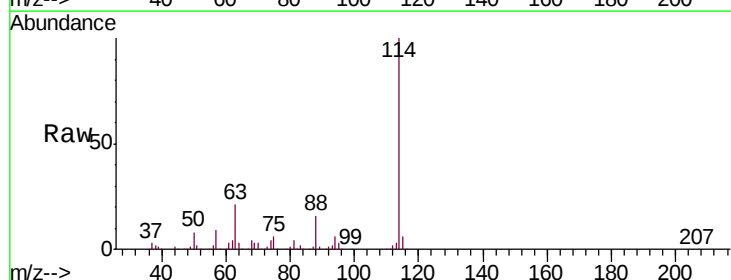
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

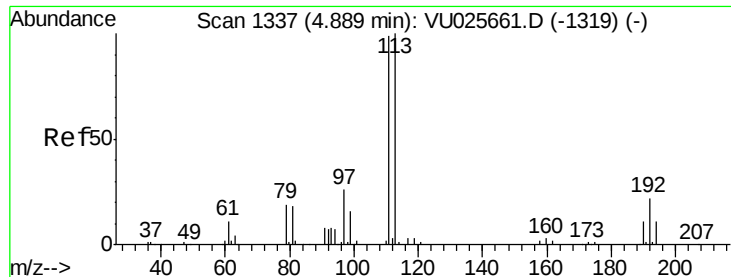
Tot Ion: 65 Resp: 129322
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion: 114 Resp: 241772
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.6
 88 15.5 0.0 32.4

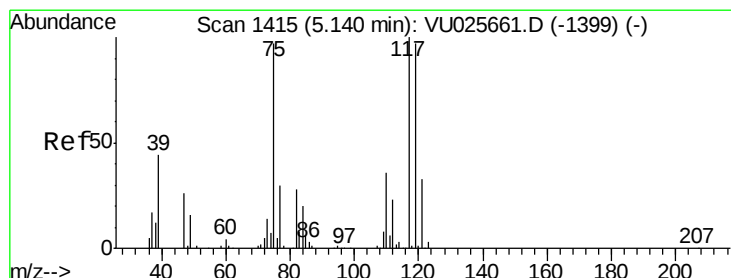
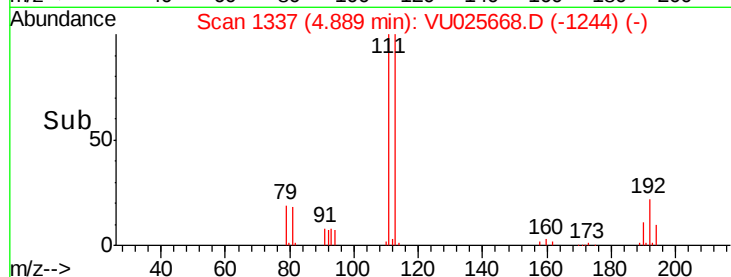
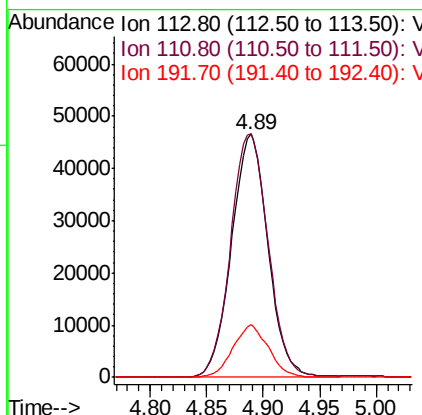
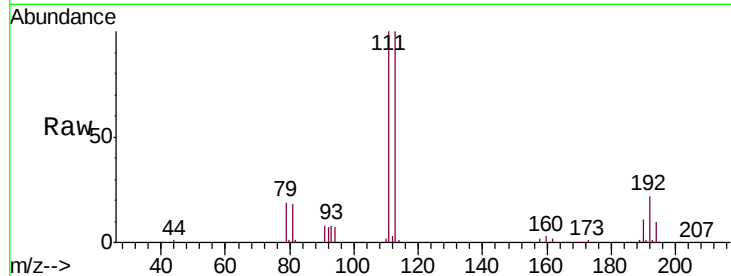




#35
 Dibromofluoromethane
 Concen: 49.73 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

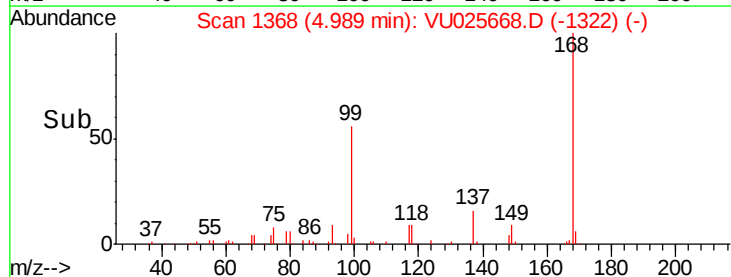
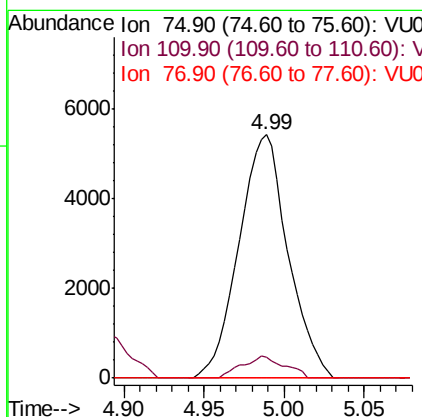
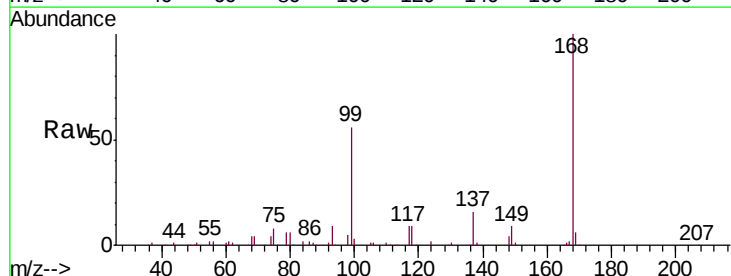
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

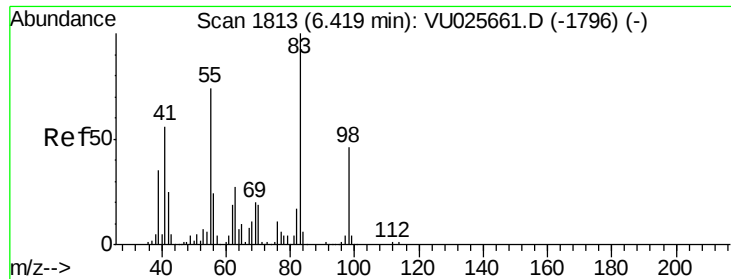
Tot Ion:113 Resp: 104568
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.7 122.5
 192 21.0 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.03 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion: 75 Resp: 11376
 Ion Ratio Lower Upper
 75 100
 110 7.8 17.6 52.9#
 77 0.0 24.4 36.6#

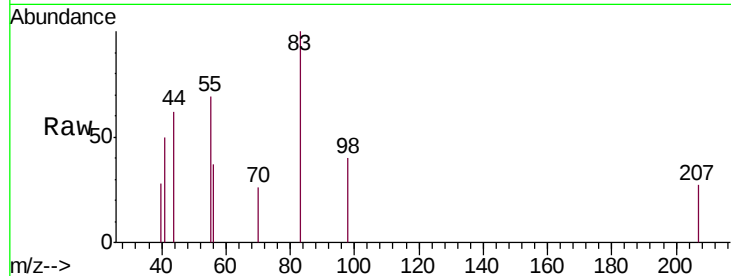




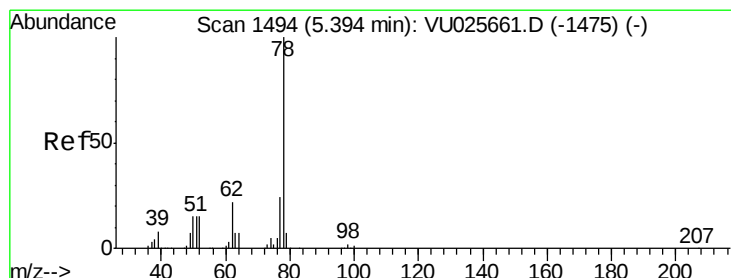
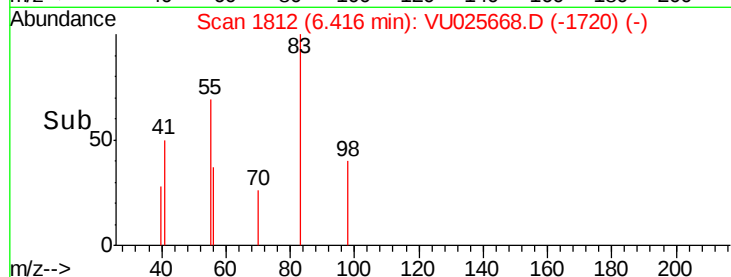
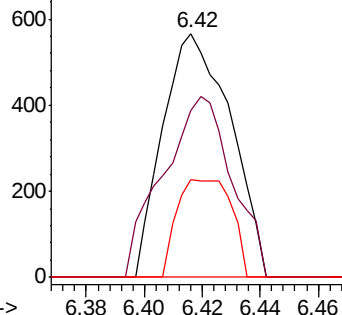
#39
Methvlcvclohexane
Concen: 0.28 ug/l
RT: 6.42 min Scan# 1812
Delta R.T. -0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

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

Tot Ion: 83 Resp: 918
Ion Ratio Lower Upper
83 100
55 68.6 60.0 90.0
98 40.1 36.1 54.1

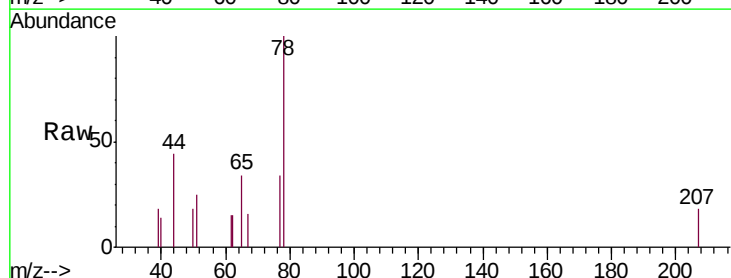


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

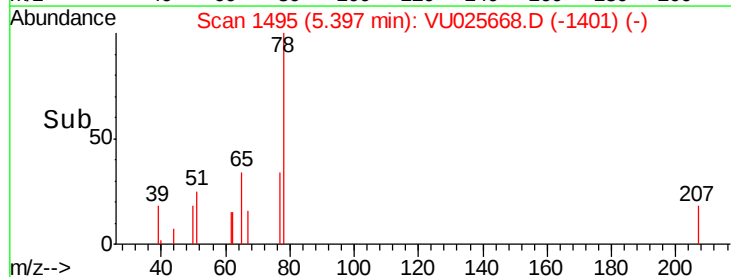
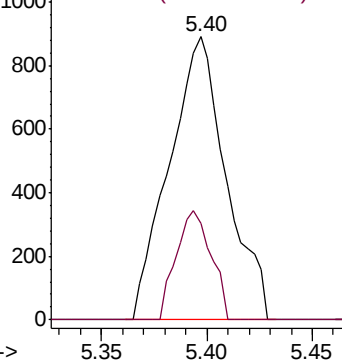


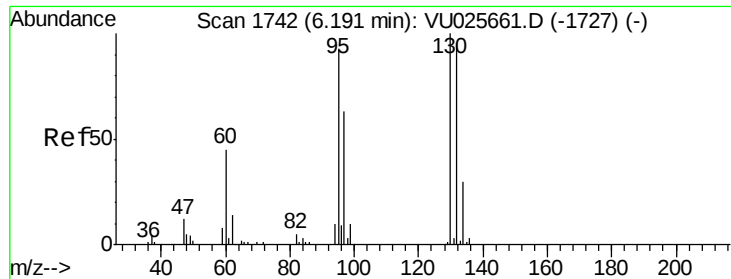
#40
Benzene
Concen: 0.20 ug/l
RT: 5.40 min Scan# 1495
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion: 78 Resp: 1677
Ion Ratio Lower Upper
78 100
77 33.9 19.8 29.6#



Abundance Ion 78.00 (77.70 to 78.70): VU0
Ion 77.00 (76.70 to 77.70): VU0





#44

Trichloroethene

Concen: 0.29 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

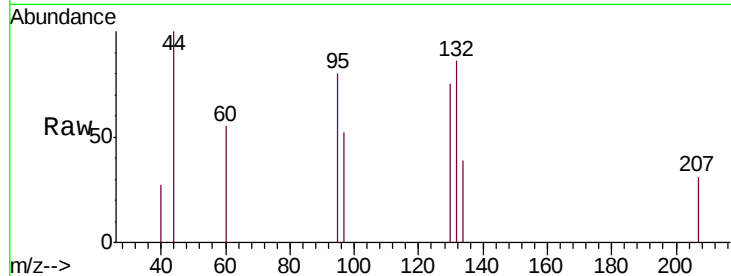
MDL-WATER-03-QT3-2018

Tot Ion:130 Resp: 666

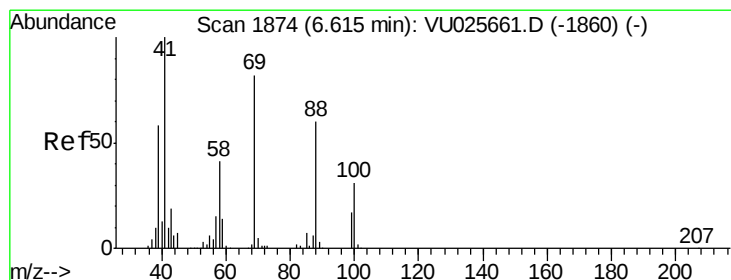
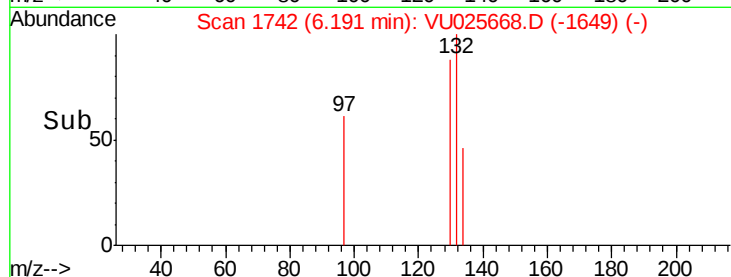
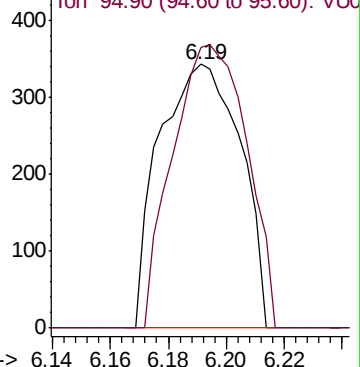
Ion Ratio Lower Upper

130 100

95 106.7 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): VU025668.D (-1727) (-)



#49

1,4-Dioxane

Concen: 0.80 ug/l

RT: 6.63 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

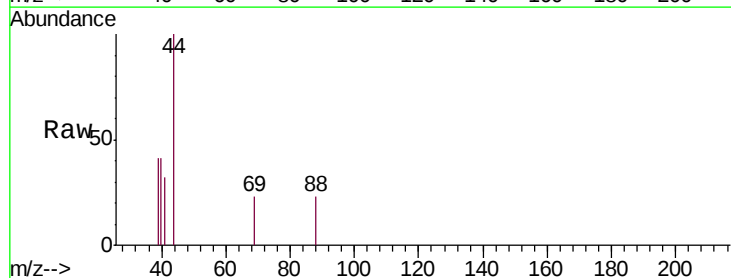
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

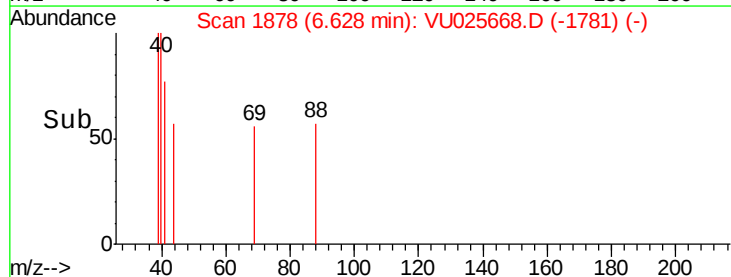
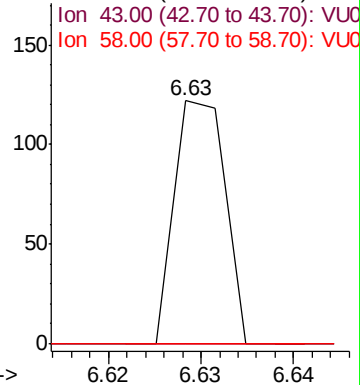
88 100

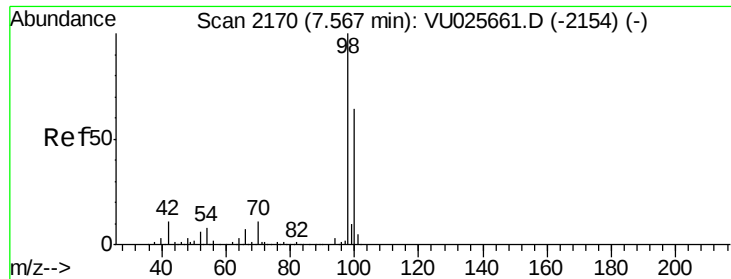
43 0.0 27.3 40.9#

58 0.0 57.6 86.4#



Abundance Ion 88.00 (87.70 to 88.70): VU025668.D (-1860) (-)

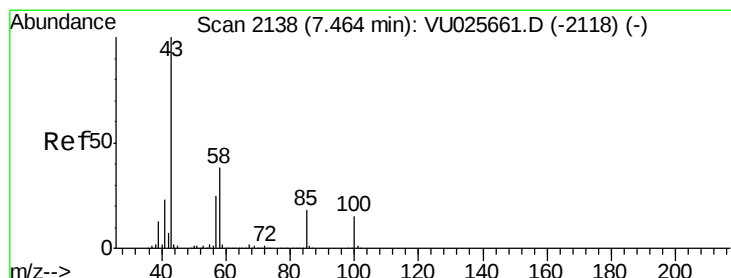
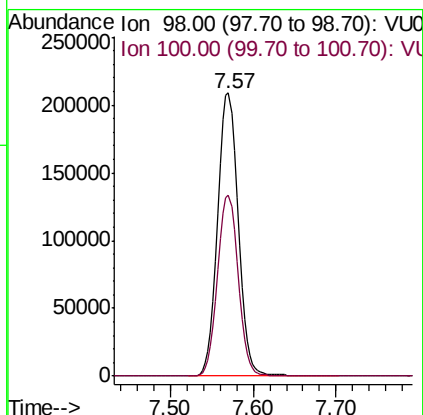
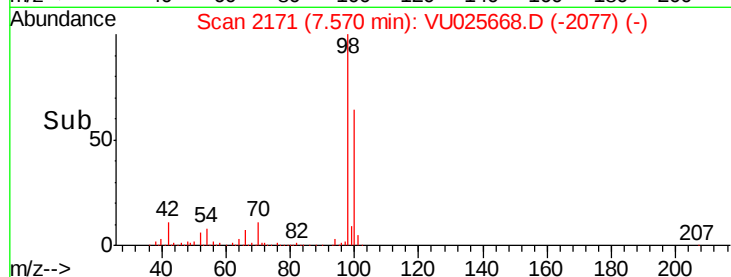
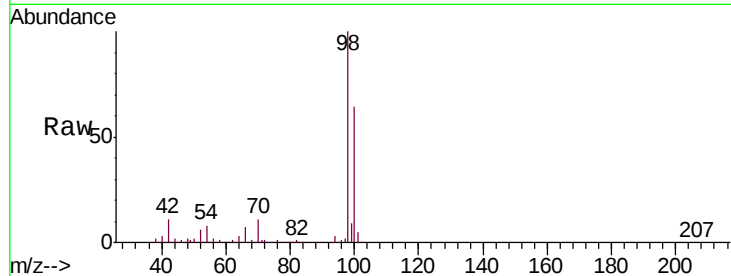




#50
Toluene-d8
Concen: 49.07 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

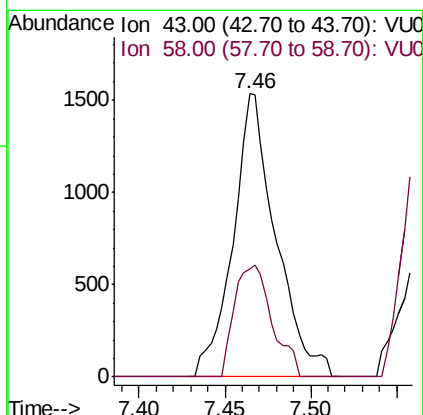
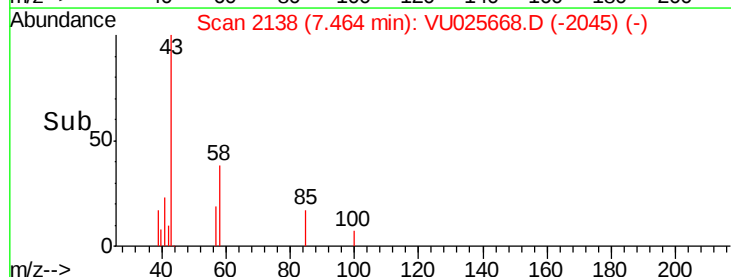
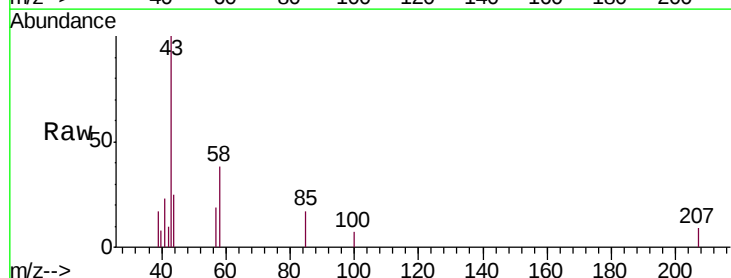
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

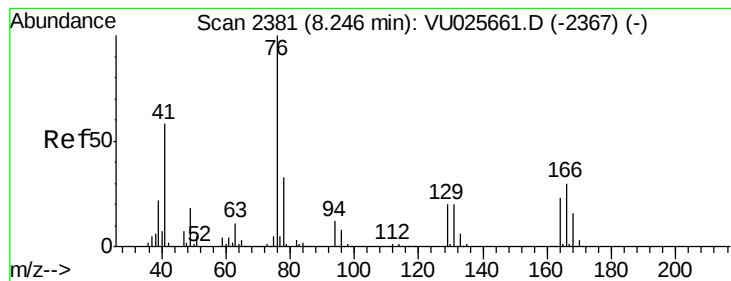
Tot Ion: 98 Resp: 361087
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.88 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion: 43 Resp: 2660
Ion Ratio Lower Upper
43 100
58 34.5 31.0 46.4





#57

1,3-Dichloropropane

Concen: 0.21 ug/l

RT: 8.25 min Scan# 2383

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

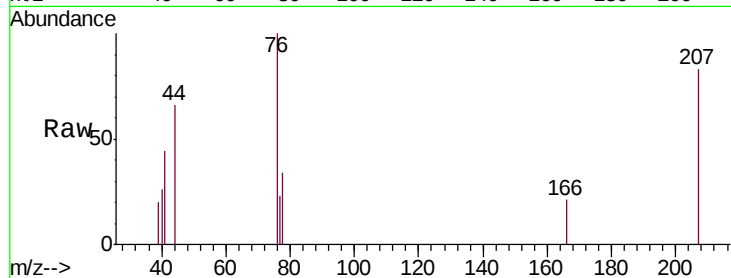
MDL-WATER-03-QT3-2018

Tot Ion: 76 Resp: 738

Ion Ratio Lower Upper

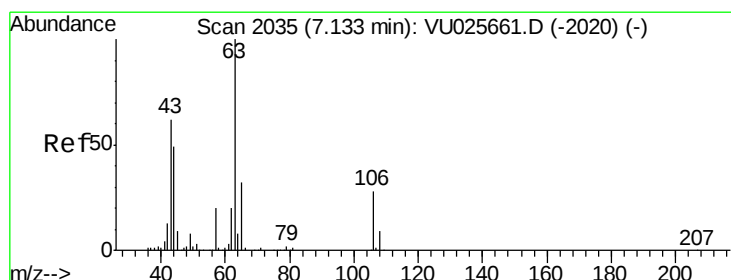
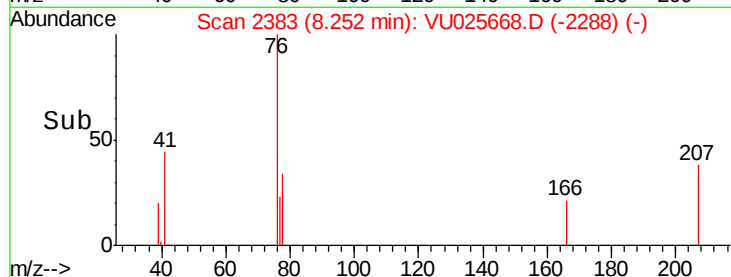
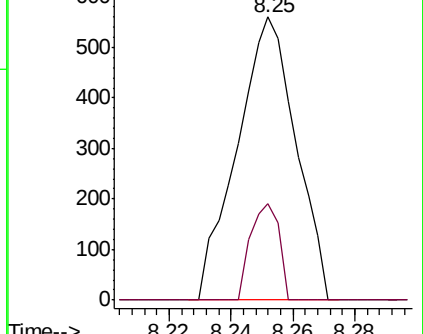
76 100

78 16.7 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 7.73 ug/l

RT: 7.14 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU025668.D

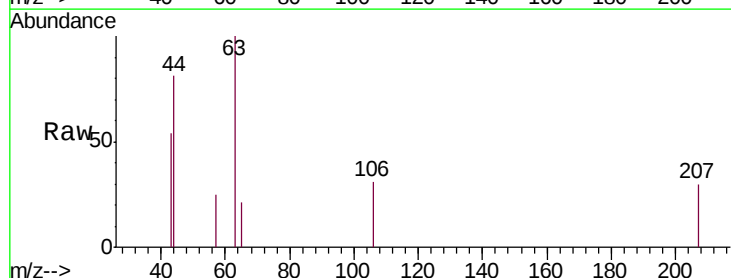
Acq: 27 Jul 2018 14:48

Tgt Ion: 63 Resp: 932

Ion Ratio Lower Upper

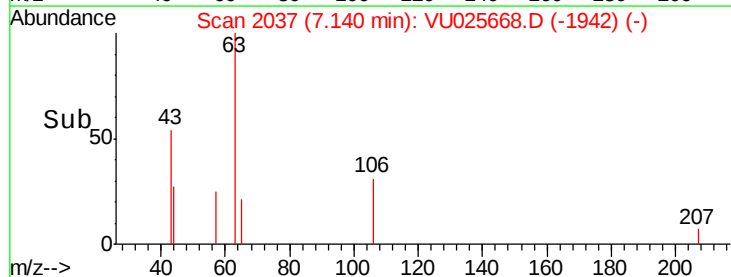
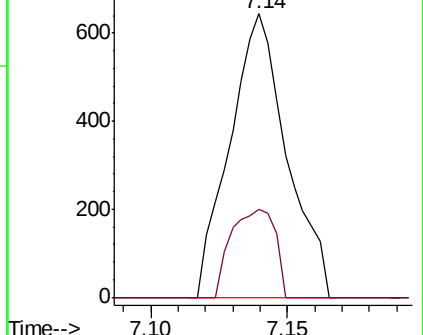
63 100

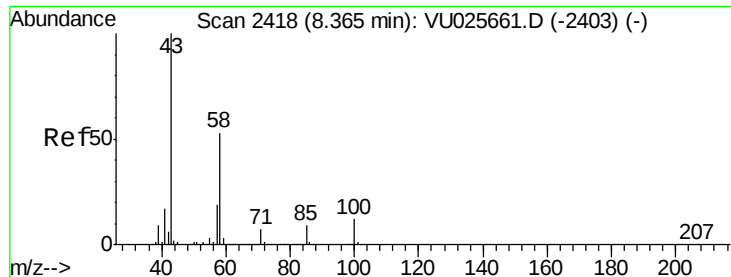
106 23.9 22.3 33.5



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

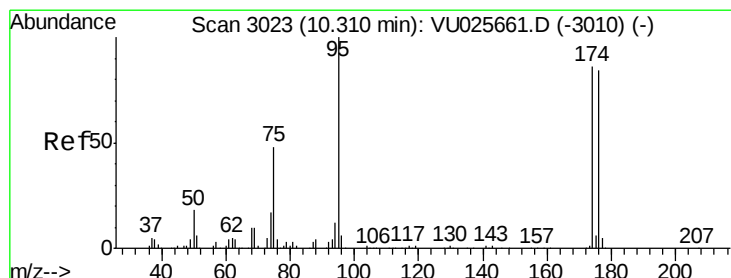
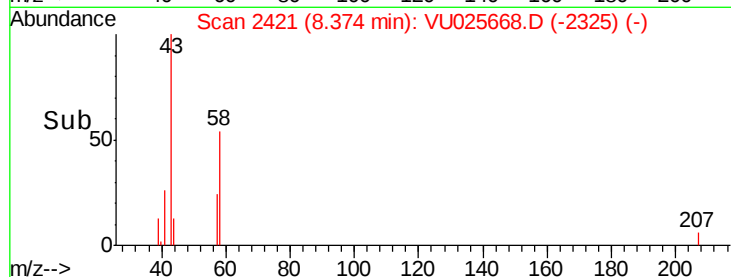
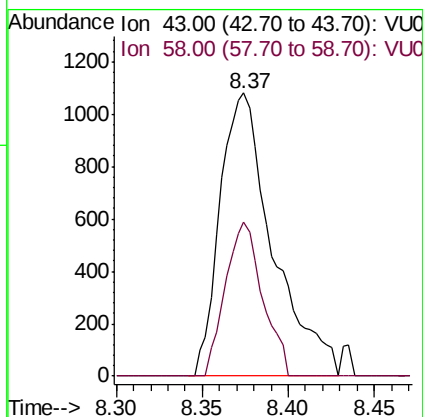
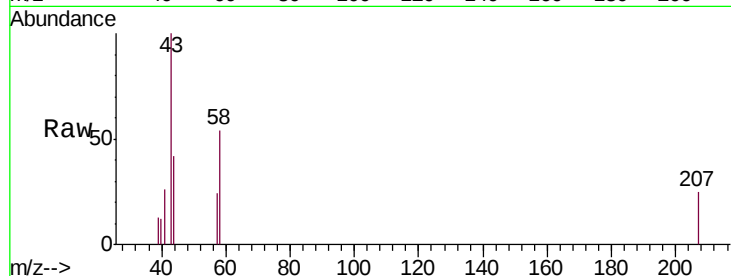




#59
2-Hexanone
Concen: 0.97 ug/l
RT: 8.37 min Scan# 2421
Delta R.T. 0.01 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

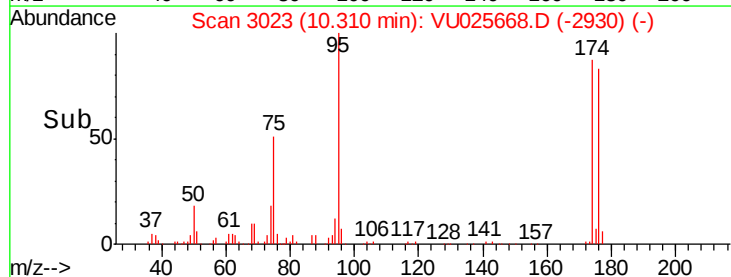
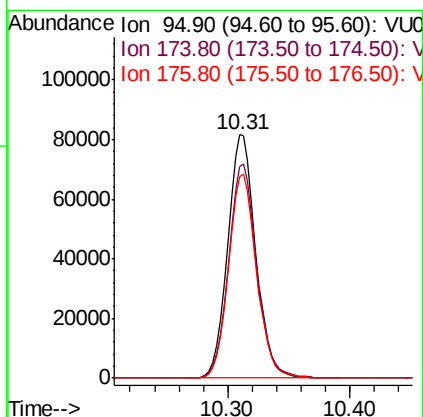
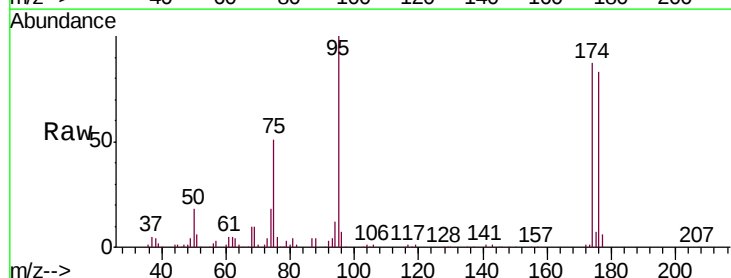
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

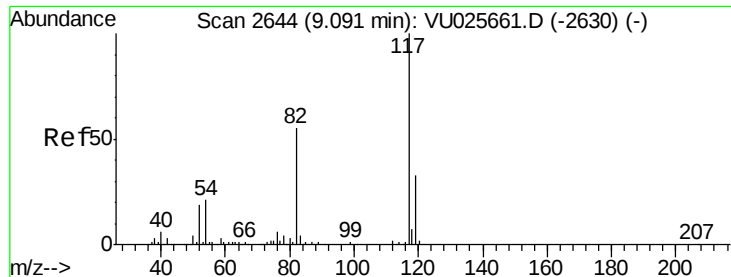
Tot Ion: 43 Resp: 2309
Ion Ratio Lower Upper
43 100
58 38.4 26.2 78.5



#62
4-Bromofluorobenzene
Concen: 45.82 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion: 95 Resp: 130882
Ion Ratio Lower Upper
95 100
174 88.0 0.0 172.2
176 83.8 0.0 162.6

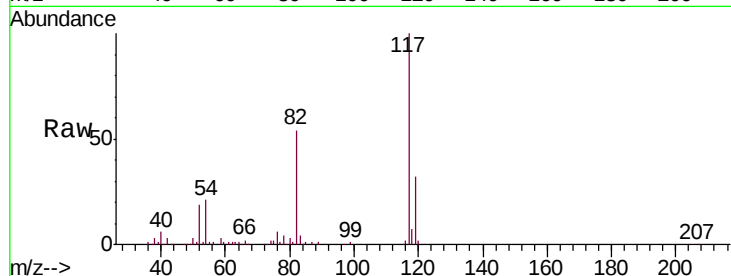




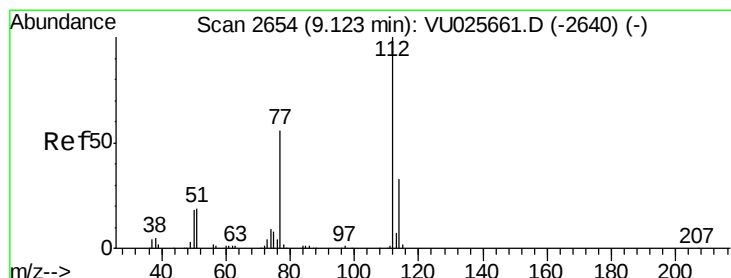
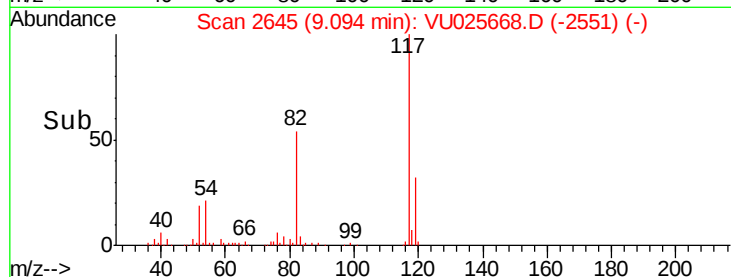
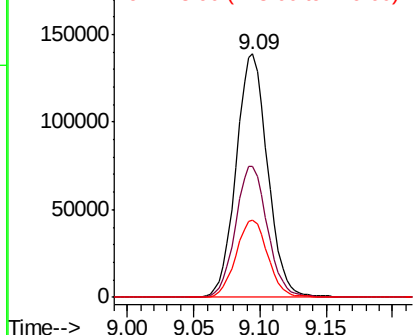
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

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

Tot Ion:117 Resp: 229645
Ion Ratio Lower Upper
117 100
82 53.5 46.0 69.0
119 31.8 26.0 39.0

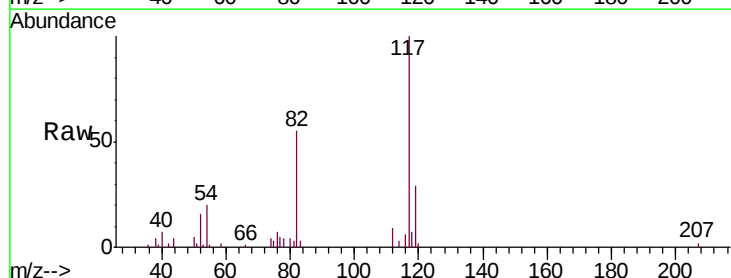


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

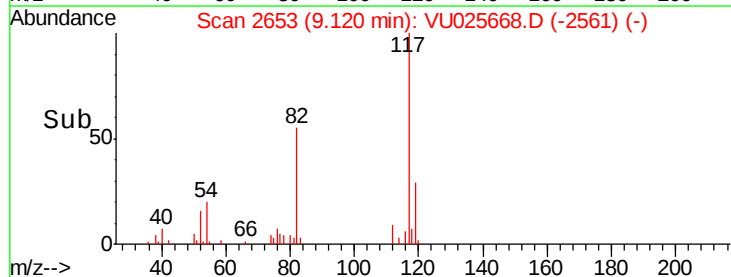
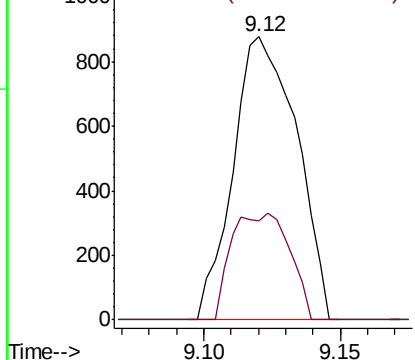


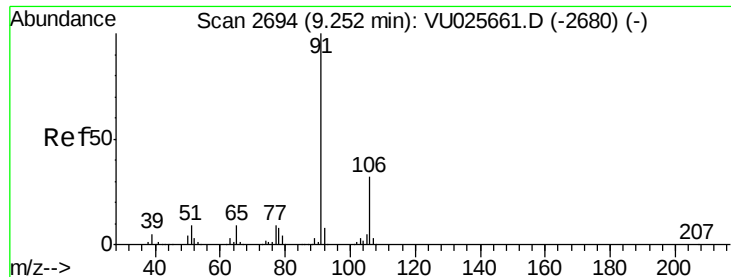
#65
Chlorobenzene
Concen: 0.24 ug/l
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion:112 Resp: 1424
Ion Ratio Lower Upper
112 100
114 35.2 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

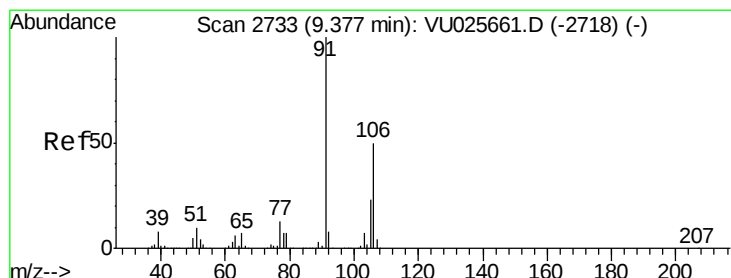
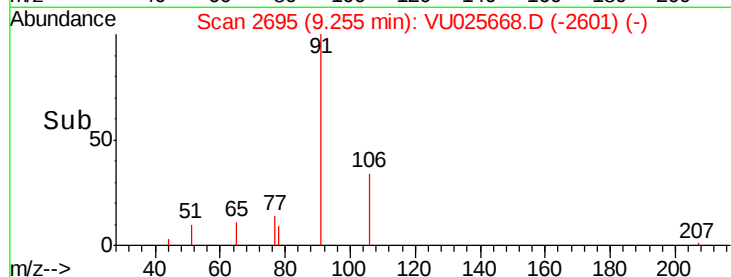
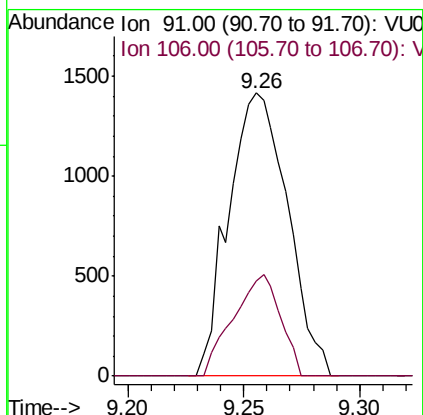
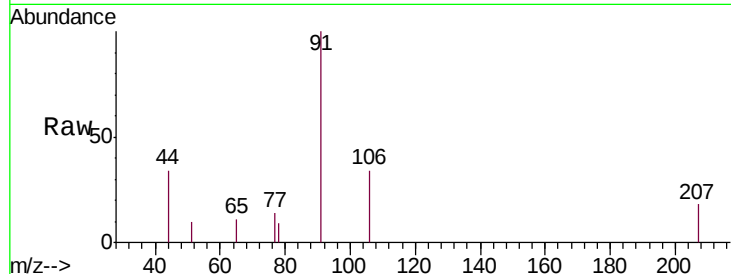




#67
Ethyl Benzene
Concen: 0.26 ug/l
RT: 9.26 min Scan# 2695
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

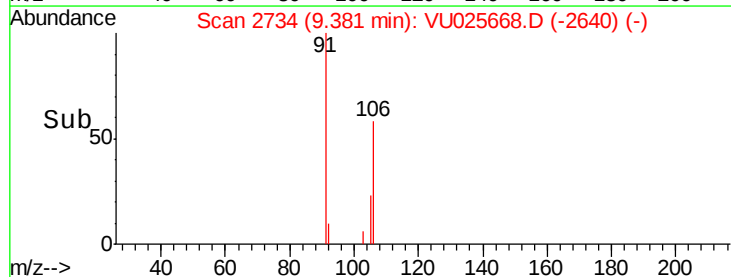
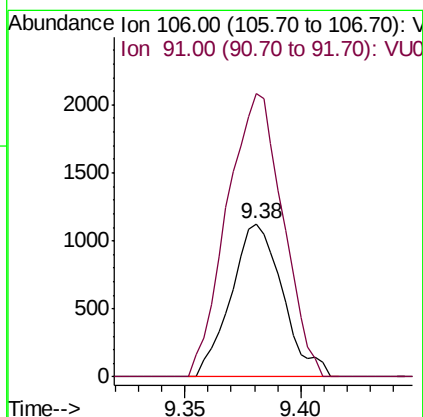
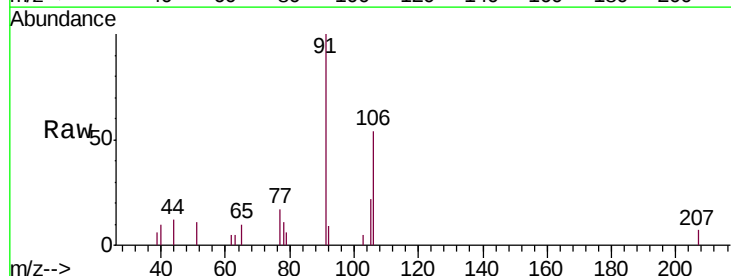
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

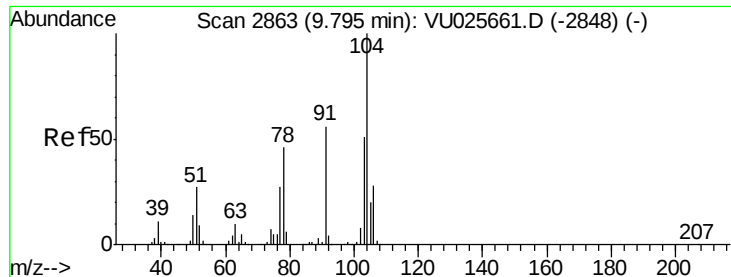
Tot Ion: 91 Resp: 2508
Ion Ratio Lower Upper
91 100
106 33.6 25.3 37.9



#68
m/p-Xylenes
Concen: 0.46 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025668.D
Acq: 27 Jul 2018 14:48

Tgt Ion: 106 Resp: 1739
Ion Ratio Lower Upper
106 100
91 200.5 162.3 243.5





#70

Stvrene

Concen: 0.22 ug/l

RT: 9.80 min Scan# 2865

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

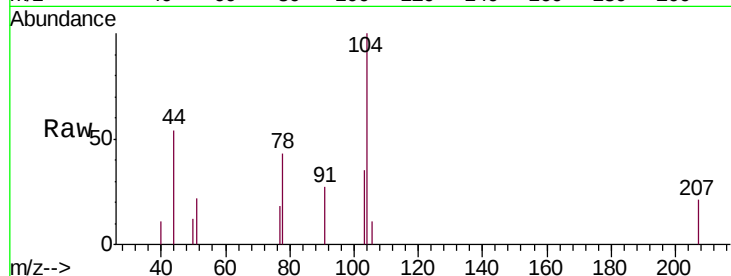
Tot Ion:104 Resp: 1308

Ion Ratio Lower Upper

104 100

78 58.7 41.6 62.4

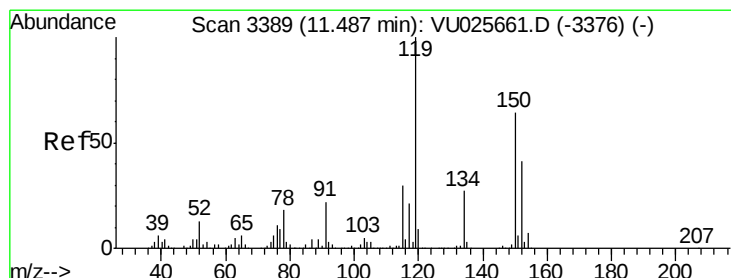
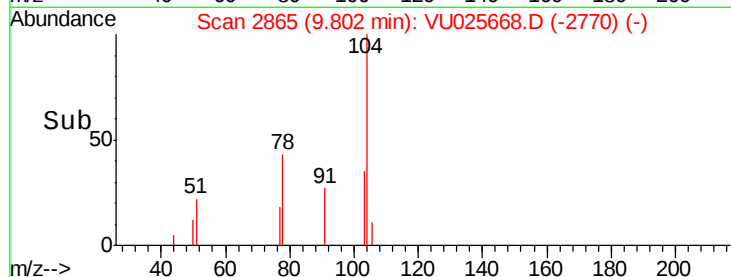
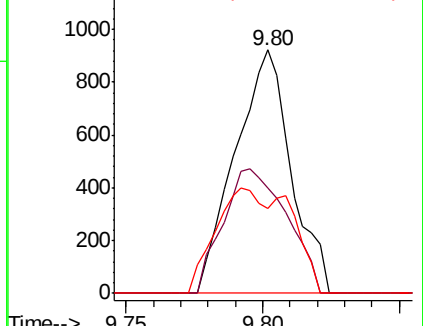
103 39.0 44.6 66.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): 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: VU025668.D

Acq: 27 Jul 2018 14:48

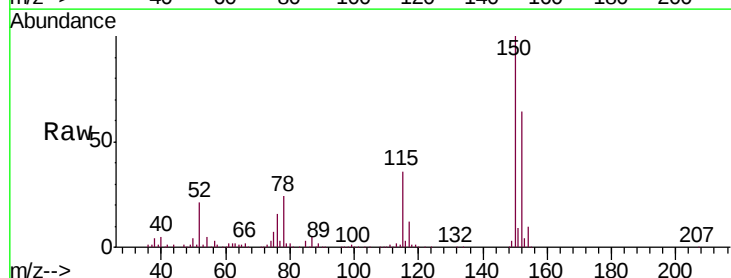
Tgt Ion:152 Resp: 131893

Ion Ratio Lower Upper

152 100

115 55.9 40.1 120.3

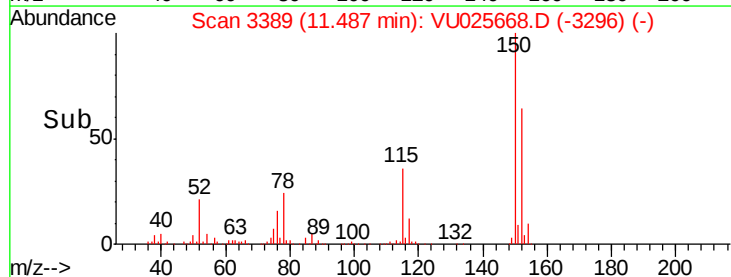
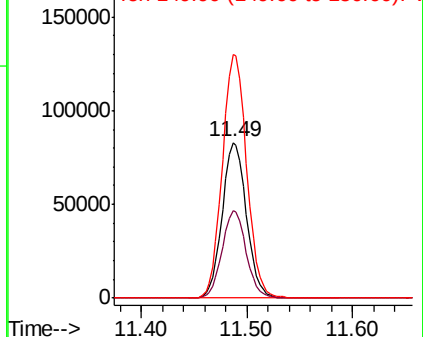
150 157.1 0.0 351.4

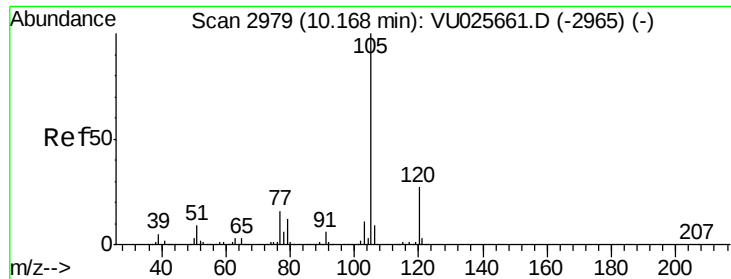


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.22 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

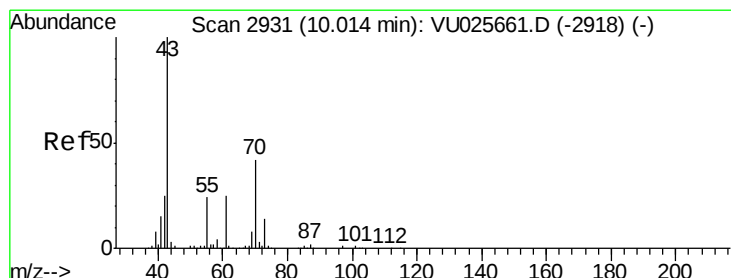
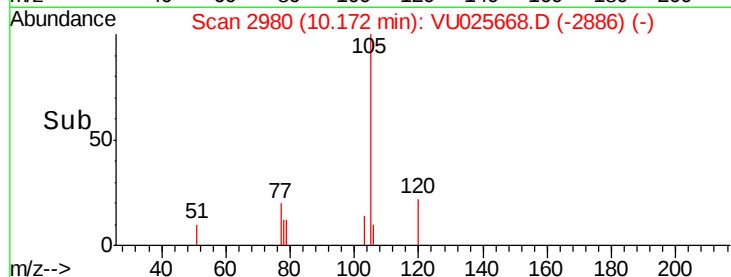
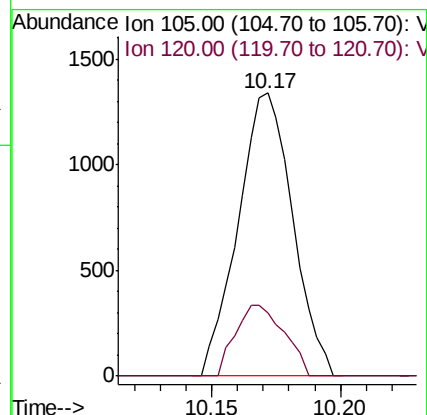
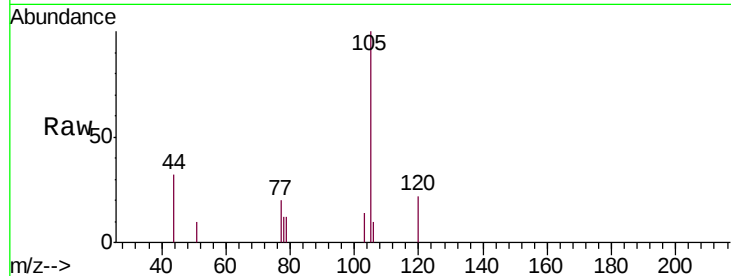
MDL-WATER-03-QT3-2018

Tot Ion: 105 Resp: 1973

Ion Ratio Lower Upper

105 100

120 22.4 13.5 40.5



#74

N-ethyl acetate

Concen: 0.23 ug/l

RT: 10.02 min Scan# 2934

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Tgt Ion: 43 Resp: 852

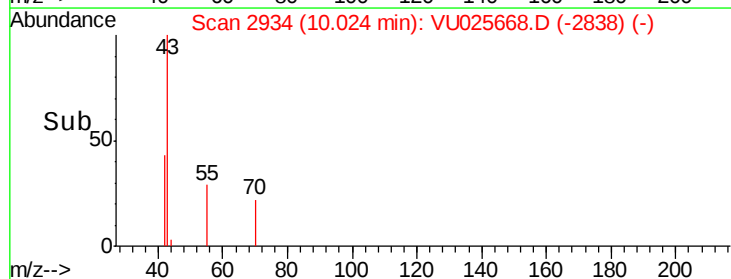
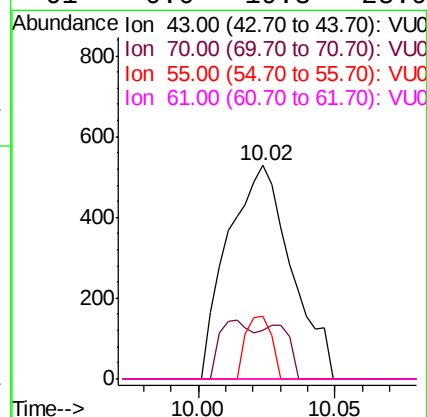
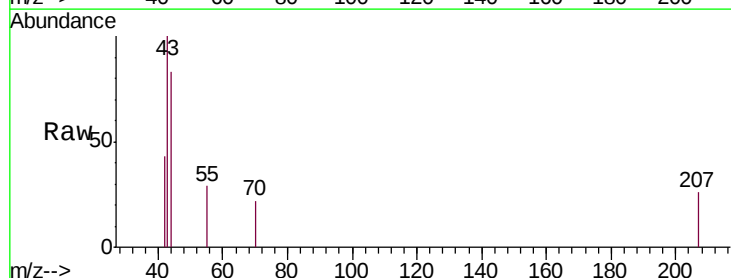
Ion Ratio Lower Upper

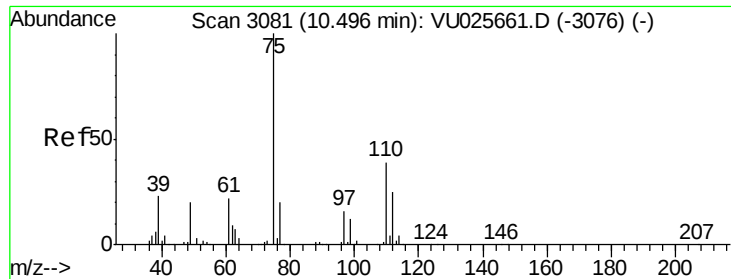
43 100

70 14.6 33.4 50.2#

55 12.0 19.0 28.6#

61 0.0 19.3 28.9#





#76

1,2,3-Trichloropropane

Concen: 22.63 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

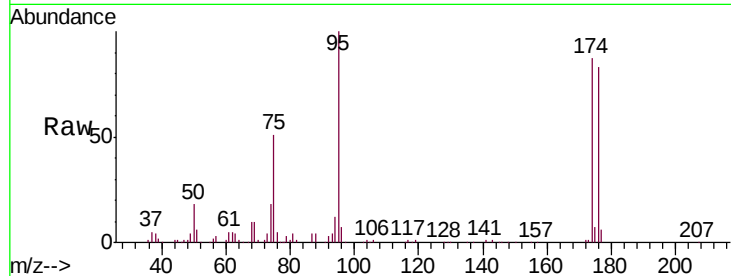
MDL-WATER-03-QT3-2018

Tot Ion: 75 Resp: 65771

Ion Ratio Lower Upper

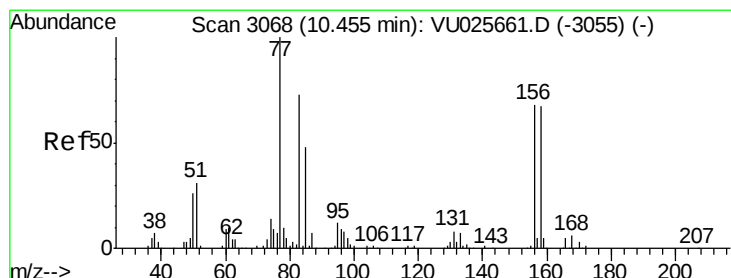
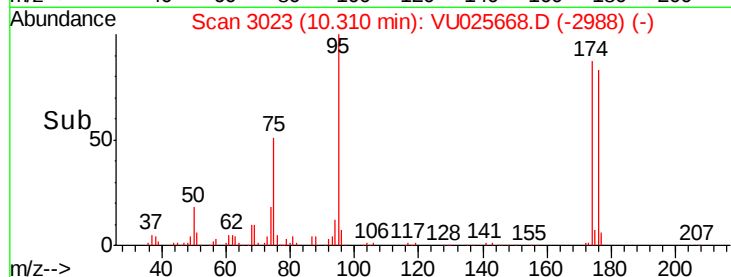
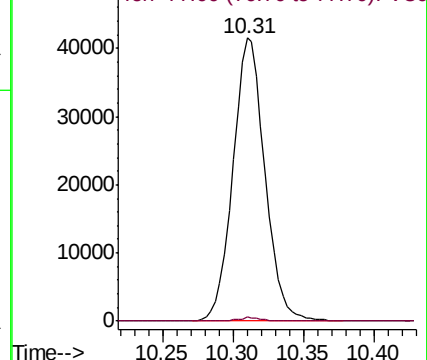
75 100

77 0.9 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#77

Bromobenzene

Concen: 0.25 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

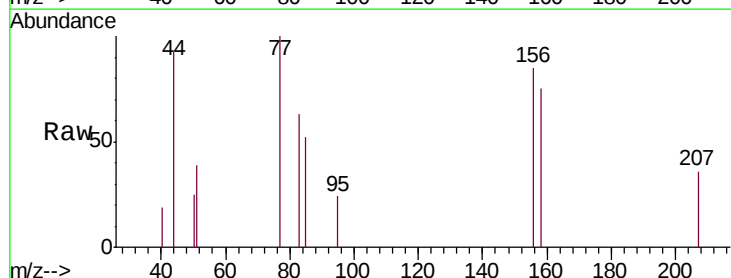
Tgt Ion: 156 Resp: 611

Ion Ratio Lower Upper

156 100

77 188.2 73.8 221.4

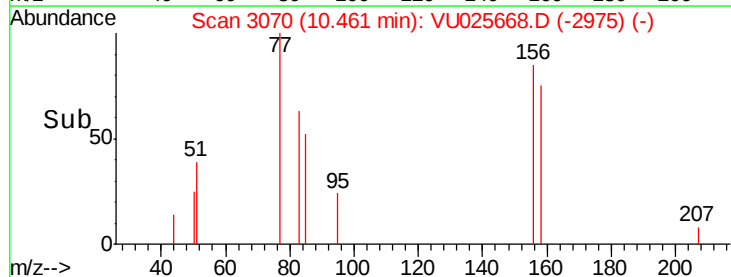
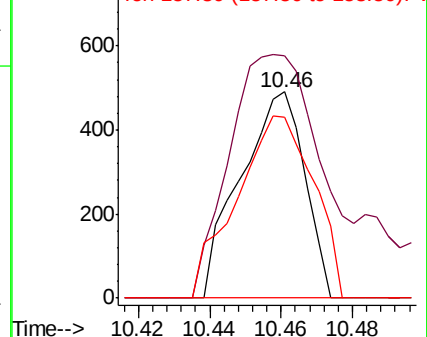
158 105.7 48.0 144.0

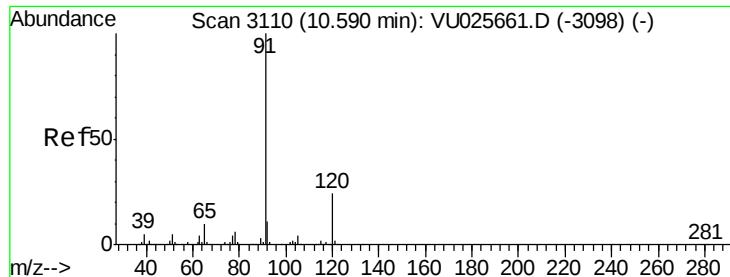


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 0.29 ug/l

RT: 10.59 min Scan# 3111

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

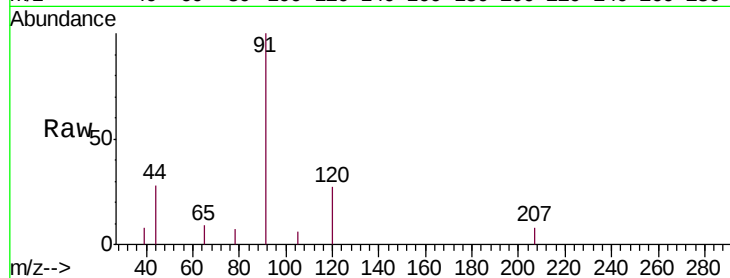
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 3034

Ion Ratio Lower Upper

91 100

120 23.2 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

2000

1500

1000

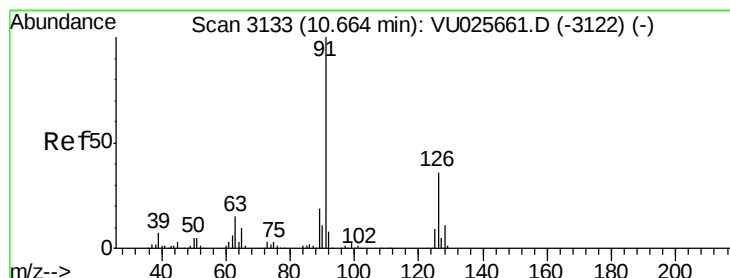
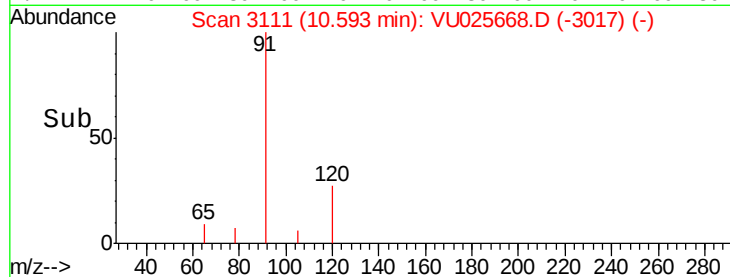
500

0

10.55

10.60

Time-->



#79

2-Chlorotoluene

Concen: 0.26 ug/l

RT: 10.66 min Scan# 3132

Delta R.T. -0.00 min

Lab File: VU025668.D

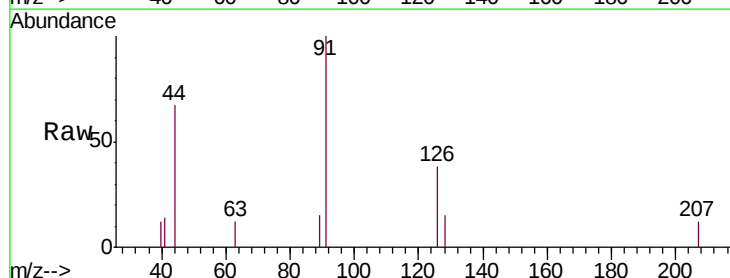
Acq: 27 Jul 2018 14:48

Tgt Ion: 91 Resp: 1614

Ion Ratio Lower Upper

91 100

126 27.4 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

1000

800

600

400

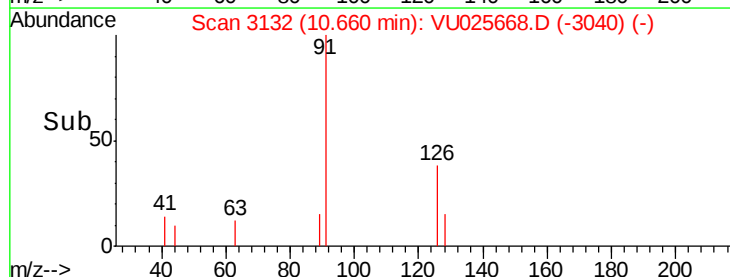
200

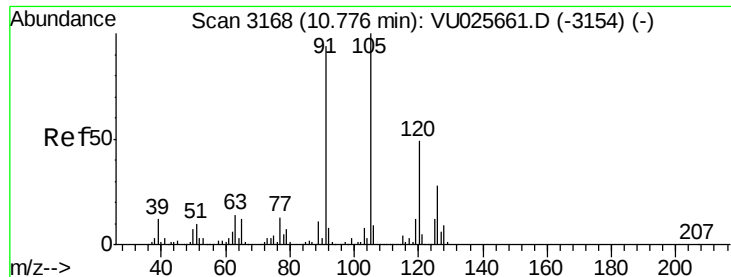
0

10.65

10.70

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 10.78 min Scan# 3170

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument:

MSVOA_U

ClientSampleId:

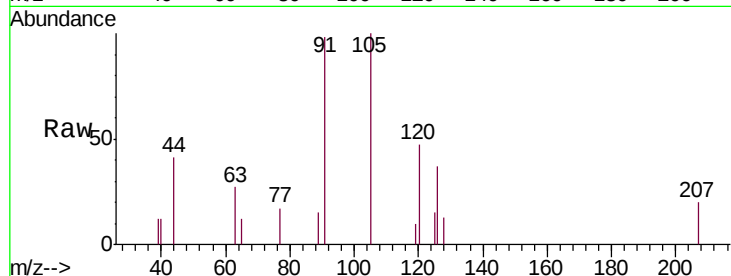
MDL-WATER-03-QT3-2018

Tot Ion: 105 Resp: 1772

Ion Ratio Lower Upper

105 100

120 49.7 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.78

1200

1000

800

600

400

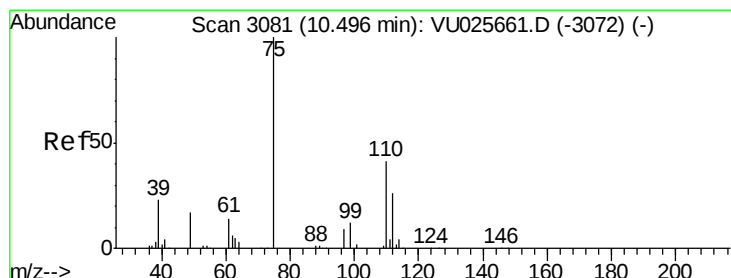
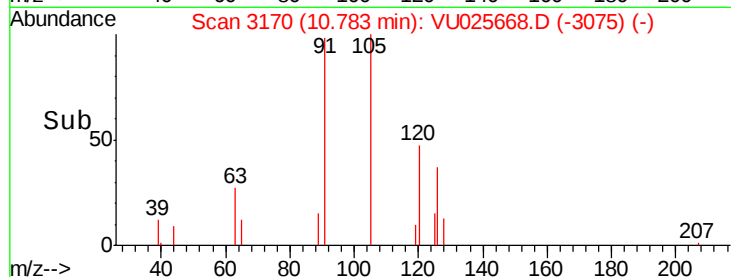
200

0

Time-->

10.75

10.80



#81

trans-1,4-Dichloro-2-butene

Concen: 56.75 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

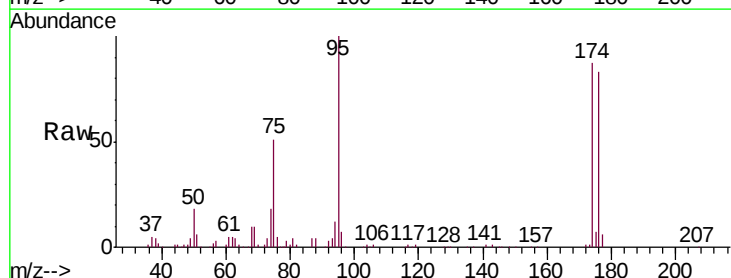
Tgt Ion: 75 Resp: 65771

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

50000

40000

30000

20000

10000

0

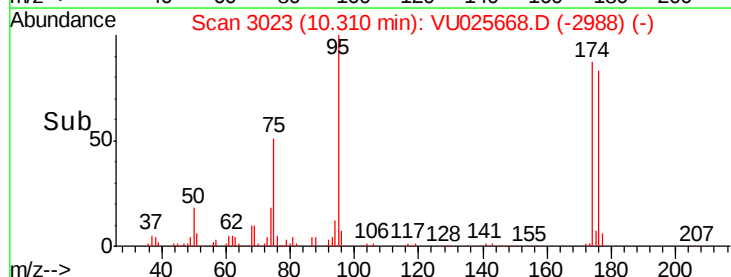
Time-->

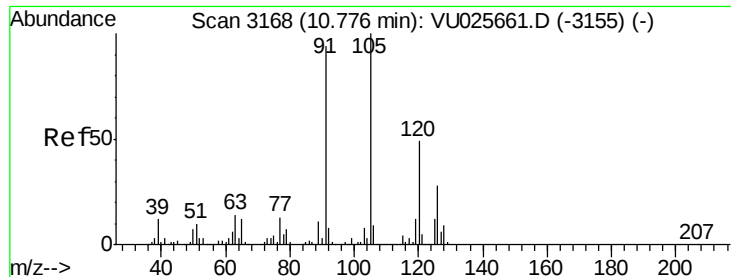
10.25

10.30

10.35

10.40





#82

4-Chlorotoluene

Concen: 0.27 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

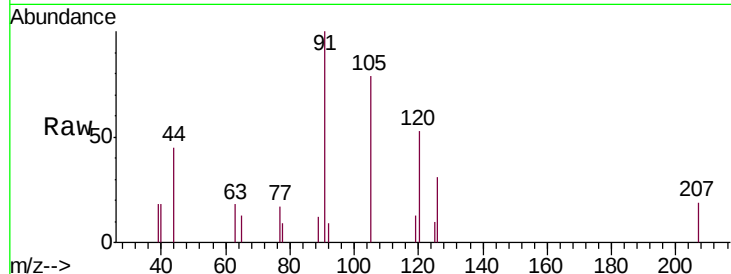
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 1971

Ion Ratio Lower Upper

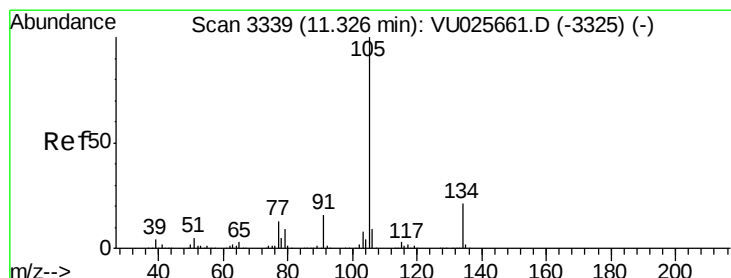
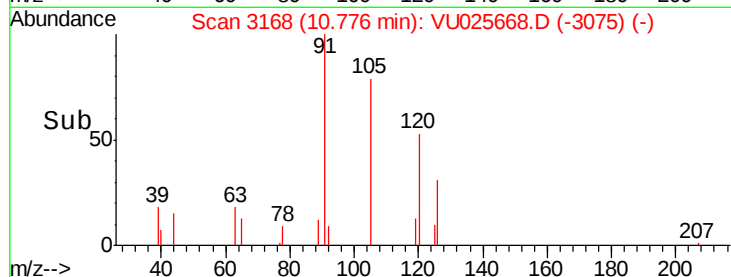
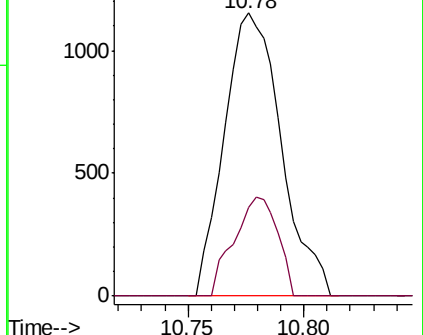
91 100

126 26.8 15.3 45.9



Abundance Ion 91.00 (90.70 to 91.70): VU025668.D (-3155) (-)

Ion 125.90 (125.60 to 126.60): VU025668.D (-3155) (-)



#85

sec-Butylbenzene

Concen: 0.24 ug/l

RT: 11.33 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VU025668.D

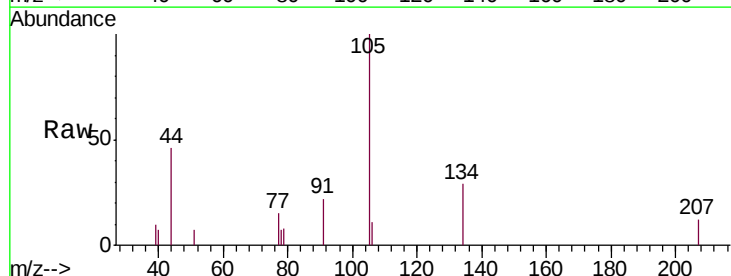
Acq: 27 Jul 2018 14:48

Tgt Ion: 105 Resp: 2197

Ion Ratio Lower Upper

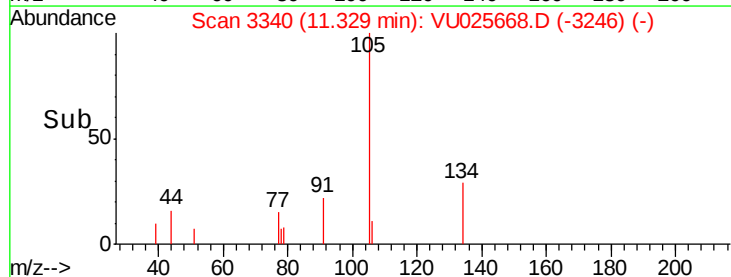
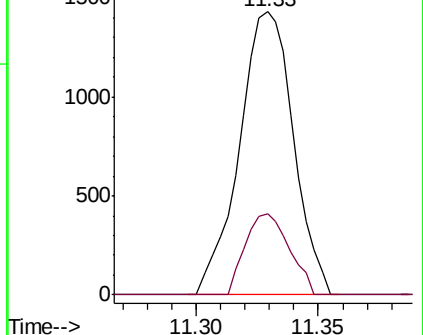
105 100

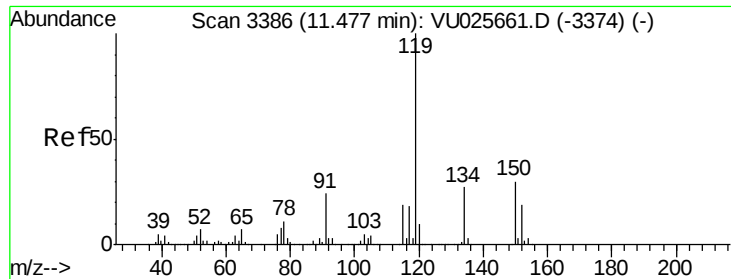
134 23.2 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): VU025668.D (-3325) (-)

Ion 134.00 (133.70 to 134.70): VU025668.D (-3325) (-)

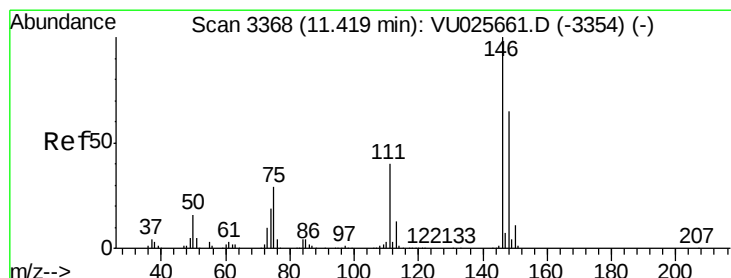
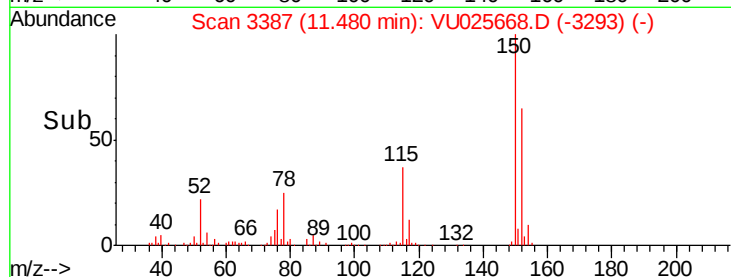
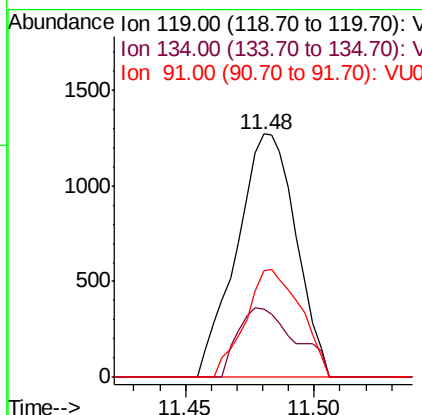
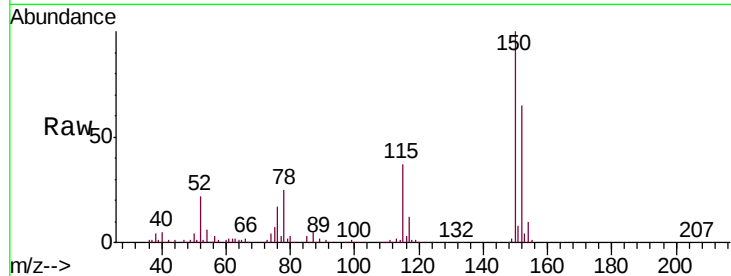




#86
 p-Isopropyltoluene
 Concen: 0.25 ug/l
 RT: 11.48 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

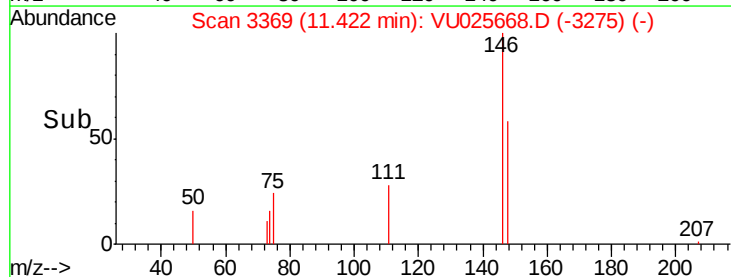
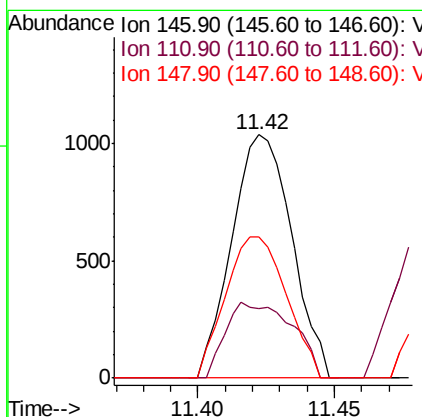
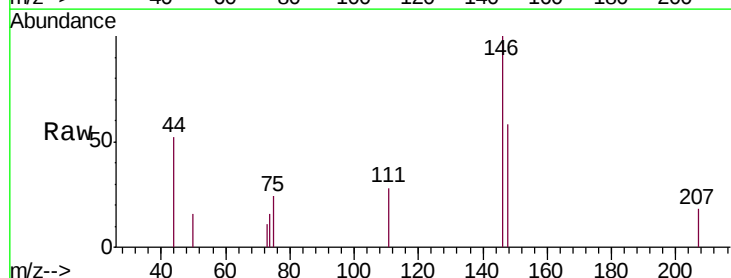
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

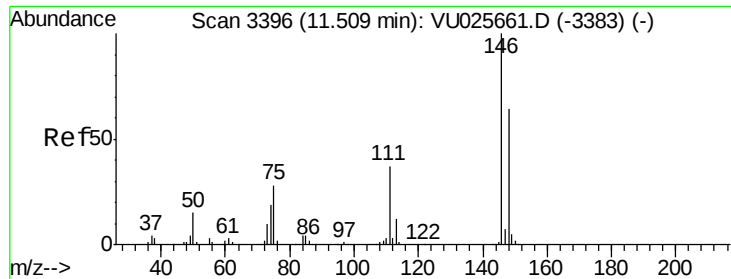
Tot Ion:119 Resp: 2035
 Ion Ratio Lower Upper
 119 100
 134 27.9 13.2 39.5
 91 41.5 12.0 36.1#



#87
 1,3-Dichlorobenzene
 Concen: 0.34 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion:146 Resp: 1582
 Ion Ratio Lower Upper
 146 100
 111 34.5 19.7 59.1
 148 59.0 32.1 96.3

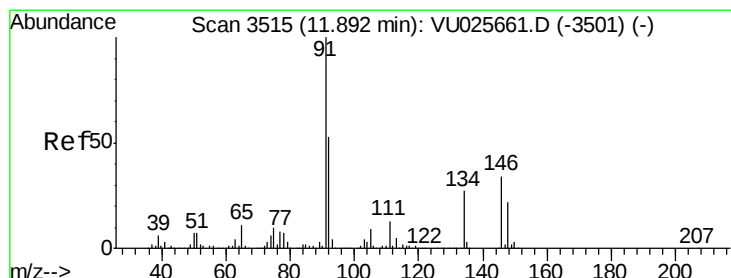
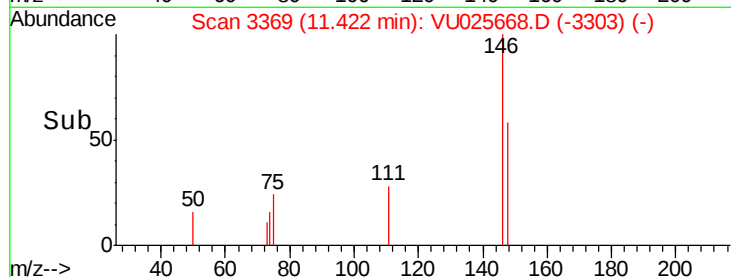
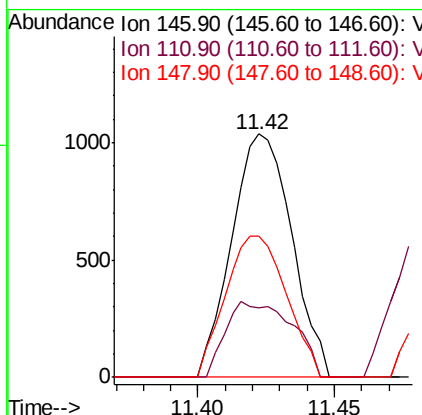
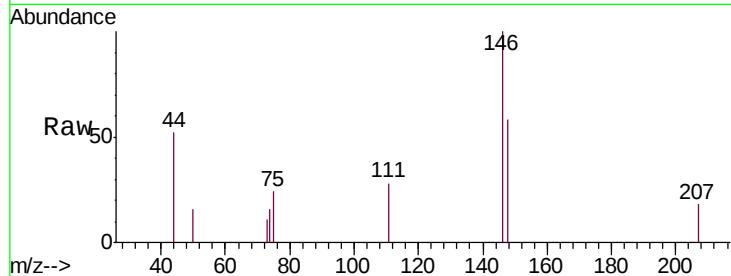




#88
 1,4-Dichlorobenzene
 Concen: 0.33 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. -0.09 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

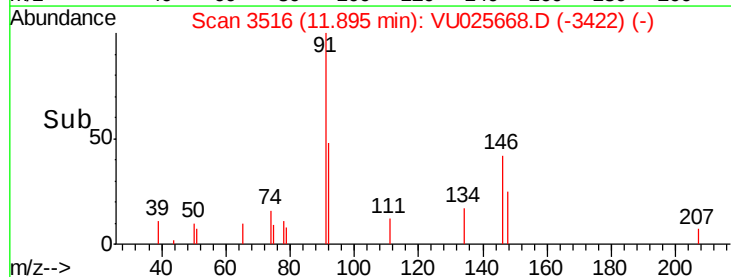
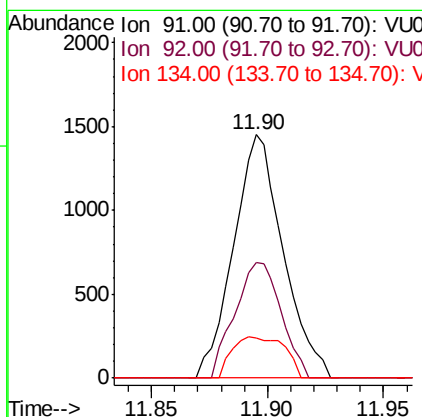
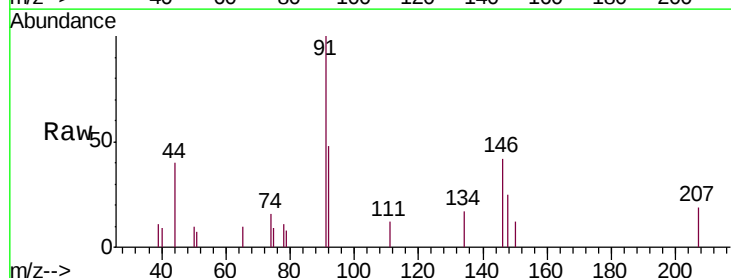
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

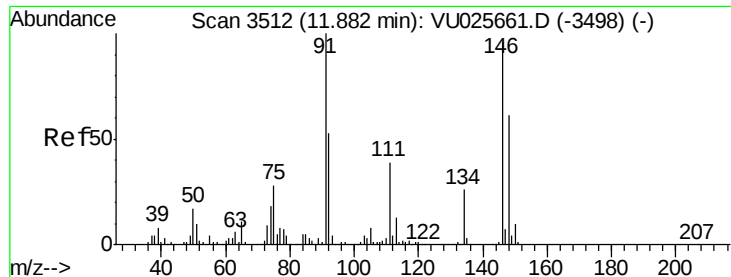
Tot Ion:146 Resp: 1582
 Ion Ratio Lower Upper
 146 100
 111 34.5 19.4 58.1
 148 59.0 31.7 95.1



#89
 n-Butylbenzene
 Concen: 0.28 ug/l
 RT: 11.90 min Scan# 3516
 Delta R.T. 0.00 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

Tgt Ion: 91 Resp: 2149
 Ion Ratio Lower Upper
 91 100
 92 44.4 26.5 79.5
 134 17.7 13.6 40.7





#91

1,2-Dichlorobenzene

Concen: 0.28 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

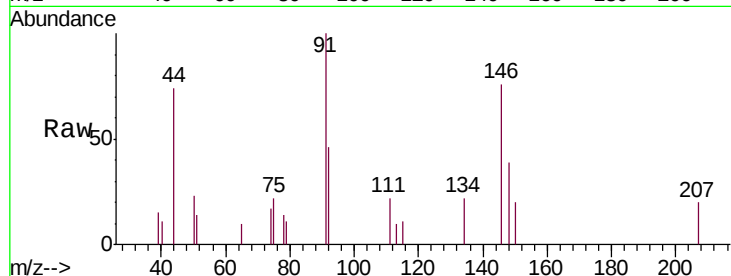
Tot Ion:146 Resp: 1270

Ion Ratio Lower Upper

146 100

111 31.4 20.6 61.8

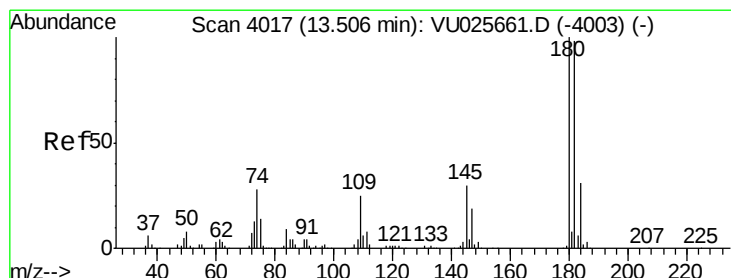
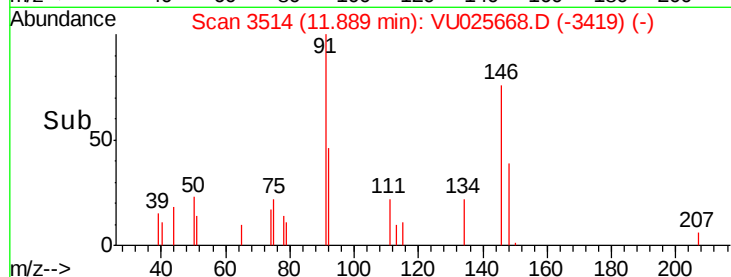
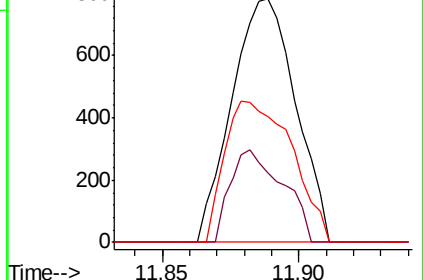
148 61.3 31.5 94.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.29 ug/l

RT: 13.52 min Scan# 4020

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

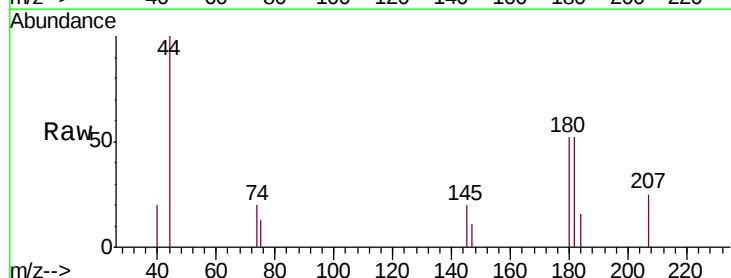
Tgt Ion:180 Resp: 895

Ion Ratio Lower Upper

180 100

182 111.8 47.3 141.9

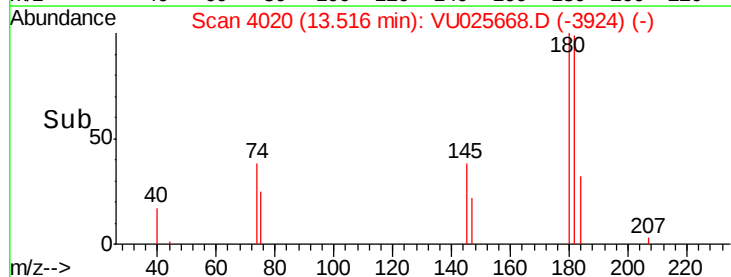
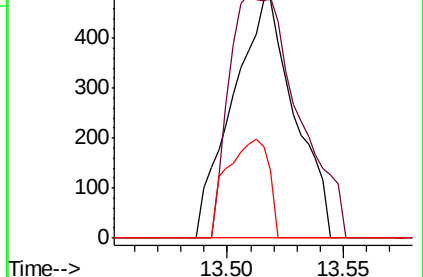
145 27.7 14.9 44.7

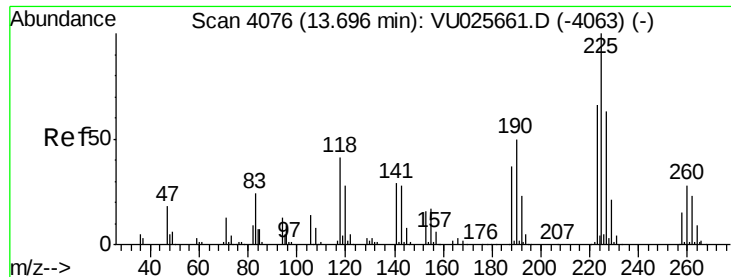


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.23 ug/l

RT: 13.69 min Scan# 4075

Delta R.T. -0.00 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

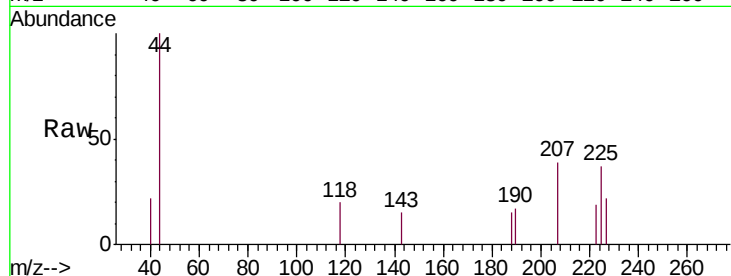
Tot Ion:225 Resp: 366

Ion Ratio Lower Upper

225 100

223 78.7 31.9 95.7

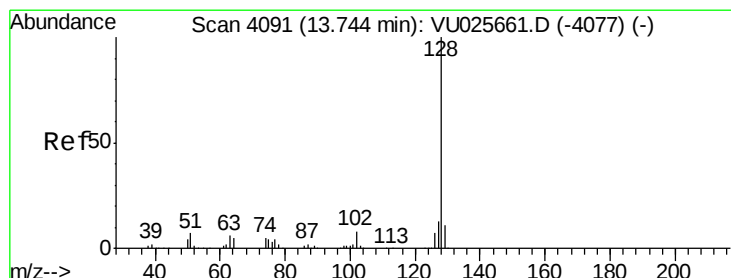
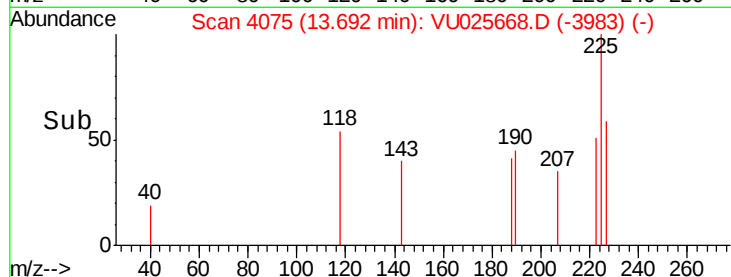
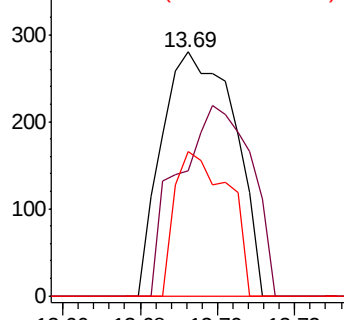
227 43.4 32.3 96.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.39 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU025668.D

Acq: 27 Jul 2018 14:48

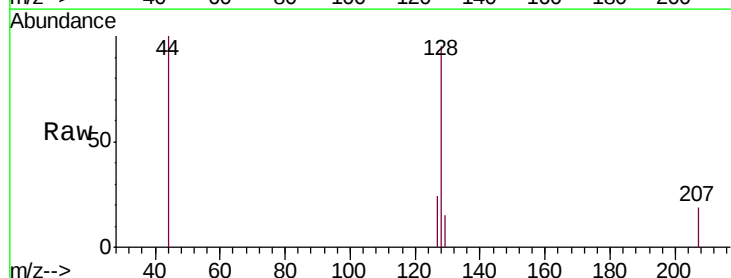
Tgt Ion:128 Resp: 1378

Ion Ratio Lower Upper

128 100

127 8.6 10.5 15.7#

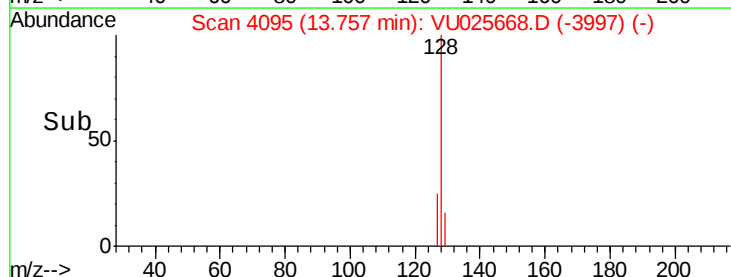
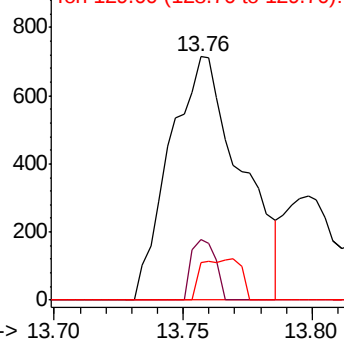
129 9.5 8.3 12.5

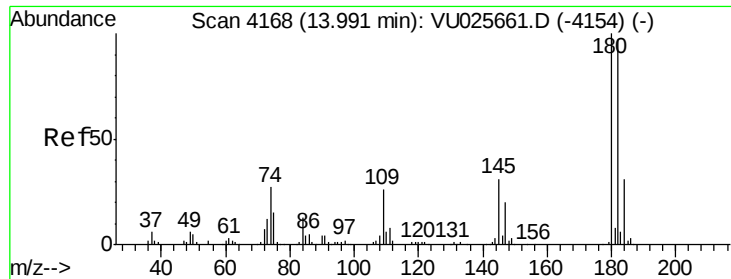


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 14.00 min Scan# 4170
 Delta R.T. 0.01 min
 Lab File: VU025668.D
 Acq: 27 Jul 2018 14:48

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.0	47.8	143.3
145	16.7	15.6	46.8

