

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072718\
 Data File : VU025674.D
 Acq On : 27 Jul 2018 17:15
 Operator : MD/SY
 Sample : J3762-09 MDL 0.5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

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

Quant Time: Jul 28 03:39:34 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	170832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	262932	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	247903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	148426	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	138244	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
35) Dibromofluoromethane	4.89	113	109267	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	7.57	98	380746	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
62) 4-Bromofluorobenzene	10.31	95	139853	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	1154	0.45	ug/l	99
3) Chloromethane	1.33	50	1353	0.55	ug/l	97
4) Vinyl Chloride	1.40	62	1184	0.51	ug/l	99
5) Bromomethane	1.63	94	750	0.66	ug/l	95
6) Chloroethane	1.70	64	755	0.56	ug/l	94
7) Trichlorofluoromethane	1.89	101	1827	0.54	ug/l	95
8) Diethyl Ether	2.10	74	707	0.58	ug/l	64
9) 1,1,2-Trichlorotrifluoroet	2.28	101	1117	0.57	ug/l	84
10) Methyl Iodide	2.42	142	595	8.87	ug/l #	84
11) Tert butyl alcohol	2.83	59	2460	4.22	ug/l #	75
12) 1,1-Dichloroethene	2.28	96	999	0.54	ug/l #	72
13) Acrolein	2.19	56	1034	2.89	ug/l #	50
14) Allyl chloride	2.59	41	1775	0.54	ug/l	95
15) Acrylonitrile	2.94	53	3526	3.03	ug/l #	86
16) Acetone	2.32	43	3783	2.92	ug/l	98
17) Carbon Disulfide	2.47	76	4138	0.70	ug/l	99
18) Methyl Acetate	2.62	43	1647	0.53	ug/l	95
19) Methyl tert-butyl Ether	3.00	73	3495	0.53	ug/l	96
20) Methylene Chloride	2.70	84	1321	0.57	ug/l	95
21) trans-1,2-Dichloroethene	2.98	96	1283	0.61	ug/l	84
22) Diisopropyl ether	3.57	45	3433	0.53	ug/l #	80
23) Vinyl Acetate	3.53	43	15156	2.68	ug/l	99
24) 1,1-Dichloroethane	3.45	63	1915	0.49	ug/l #	83
25) 2-Butanone	4.28	43	5135	2.91	ug/l	99
26) 2,2-Dichloropropane	4.24	77	1773	0.50	ug/l #	75
27) cis-1,2-Dichloroethene	4.23	96	1393	0.58	ug/l	94
28) Bromochloromethane	4.55	49	542	0.31	ug/l #	38
29) Tetrahydrofuran	4.65	42	3256	3.08	ug/l	90
30) Chloroform	4.69	83	1959	0.48	ug/l	91
31) Cyclohexane	5.00	56	5272	0.21	ug/l #	58
32) 1,1,1-Trichloroethane	4.92	97	2205	0.60	ug/l #	51
36) 1,1-Dichloropropene	5.15	75	1029	0.33	ug/l #	56
37) Ethyl Acetate	4.39	43	1875	0.59	ug/l #	77
38) Carbon Tetrachloride	5.14	117	1583	0.45	ug/l	93

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	2141	0.61	ug/l	91
40) Benzene	5.40	78	4532	0.50	ug/l #	89
41) Methacrylonitrile	4.55	41	602	0.34	ug/l #	63
42) 1,2-Dichloroethane	5.41	62	1852	0.54	ug/l	84
43) Isopropyl Acetate	5.55	43	2981	0.57	ug/l #	93
44) Trichloroethene	6.19	130	1343	0.54	ug/l	99
45) 1,2-Dichloropropane	6.44	63	1057	0.45	ug/l	99
46) Dibromomethane	6.56	93	824	0.49	ug/l	90
47) Bromodichloromethane	6.76	83	1430	0.44	ug/l #	97
48) Methyl methacrylate	6.63	41	1198	0.46	ug/l	97
49) 1,4-Dioxane	6.63	88	645	10.27	ug/l #	81
51) 4-Methyl-2-Pentanone	7.46	43	8367	2.54	ug/l	96
52) Toluene	7.64	92	3079	0.55	ug/l	94
53) t-1,3-Dichloropropene	7.89	75	1830	0.50	ug/l #	88
54) cis-1,3-Dichloropropene	7.27	75	1746	0.47	ug/l #	75
55) 1,1,2-Trichloroethane	8.07	97	1092	0.47	ug/l #	82
56) Ethyl methacrylate	8.02	69	1469	0.44	ug/l #	89
57) 1,3-Dichloropropane	8.25	76	2009	0.52	ug/l #	88
58) 2-Chloroethyl Vinyl ether	7.14	63	3084	9.07	ug/l	95
59) 2-Hexanone	8.37	43	6281	2.43	ug/l	96
60) Dibromochloromethane	8.48	129	1135	0.42	ug/l	91
61) 1,2-Dibromoethane	8.60	107	1299	0.50	ug/l	92
64) Tetrachloroethene	8.23	164	1635	0.75	ug/l #	87
65) Chlorobenzene	9.12	112	3434	0.54	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	1242	0.54	ug/l #	65
67) Ethyl Benzene	9.25	91	5631	0.53	ug/l	96
68) m/p-Xylenes	9.38	106	4468	1.10	ug/l	96
69) o-Xylene	9.78	106	1854	0.47	ug/l	76
70) Styrene	9.80	104	3287	0.51	ug/l	98
71) Bromoform	9.96	173	743	0.37	ug/l #	93
73) Isopropylbenzene	10.17	105	5408	0.53	ug/l	96
74) N-amyl acetate	10.02	43	2262	0.55	ug/l #	80
75) 1,1,2,2-Tetrachloroethane	10.46	83	1646	0.47	ug/l	93
76) 1,2,3-Trichloropropane	10.31	75	72829	22.27	ug/l #	36
77) Bromobenzene	10.46	156	1393	0.50	ug/l	78
78) n-propylbenzene	10.59	91	7154	0.61	ug/l	95
79) 2-Chlorotoluene	10.66	91	3983	0.58	ug/l	97
80) 1,3,5-Trimethylbenzene	10.78	105	4549	0.53	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.31	75	72829	55.84	ug/l #	100
82) 4-Chlorotoluene	10.78	91	4591	0.56	ug/l	99
83) tert-Butylbenzene	11.10	119	4360	0.51	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	4419	0.51	ug/l	99
85) sec-Butylbenzene	11.33	105	5418	0.52	ug/l	93
86) p-Isopropyltoluene	11.48	119	5049	0.54	ug/l #	84
87) 1,3-Dichlorobenzene	11.42	146	3294	0.64	ug/l	92
88) 1,4-Dichlorobenzene	11.42	146	3294	0.61	ug/l	92
89) n-Butylbenzene	11.90	91	4485	0.52	ug/l	97
90) Hexachloroethane	12.15	117	715	0.43	ug/l	99
91) 1,2-Dichlorobenzene	11.89	146	2894	0.57	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	12.66	75	422	0.51	ug/l	76

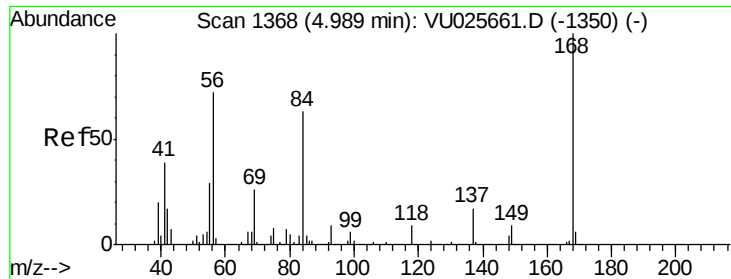
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\
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Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.51	180	2067	0.60	ug/l	85
94) Hexachlorobutadiene	13.70	225	935	0.52	ug/l	99
95) Naphthalene	13.75	128	8055	1.96	ug/l #	90
96) 1,2,3-Trichlorobenzene	13.99	180	1957	0.57	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

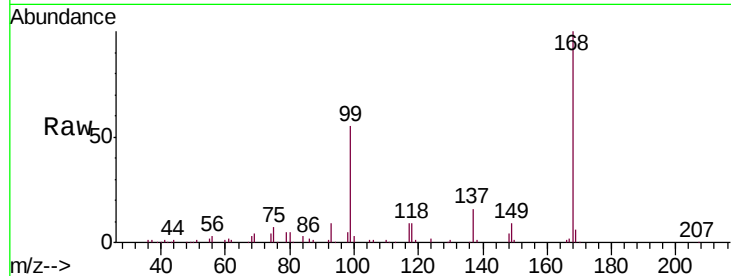
MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 170832

Ion Ratio Lower Upper

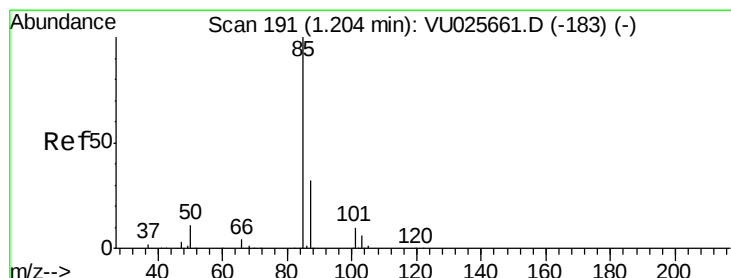
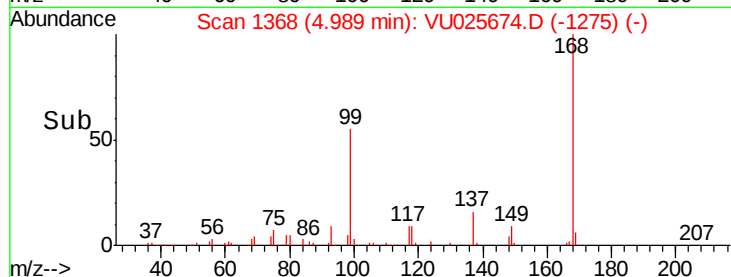
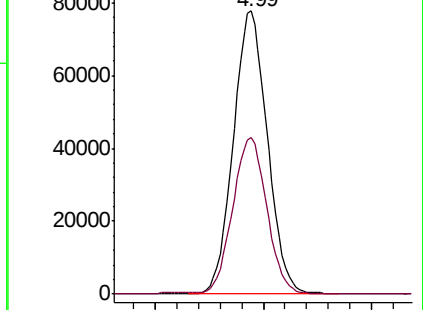
168 100

99 55.3 42.8 64.2



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

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



#2

Dichlorodifluoromethane

Concen: 0.45 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025674.D

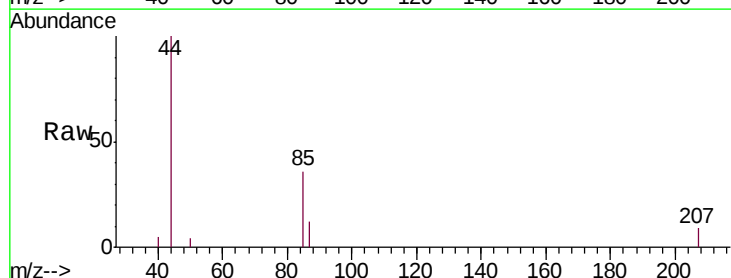
Acq: 27 Jul 2018 17:15

Tgt Ion: 85 Resp: 1154

Ion Ratio Lower Upper

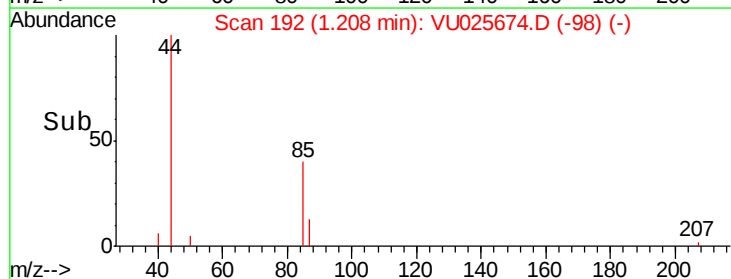
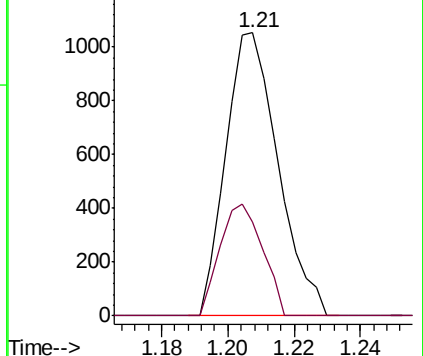
85 100

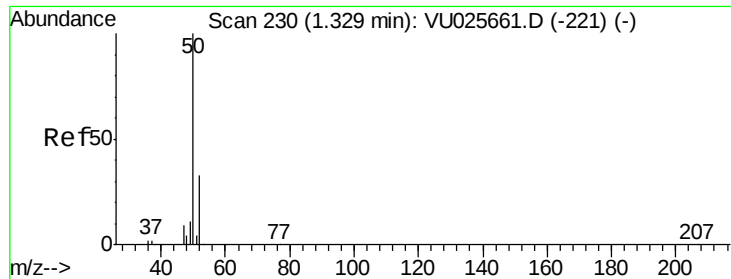
87 33.3 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025661.D (-183) (-)

Ion 86.90 (86.60 to 87.60): VU025661.D (-183) (-)





#3

Chloromethane

Concen: 0.55 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

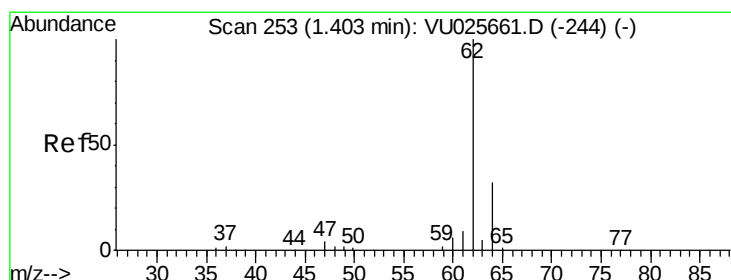
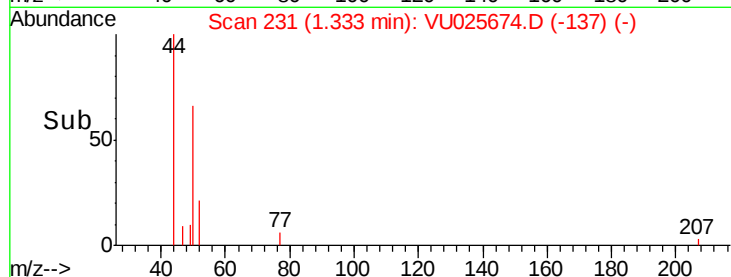
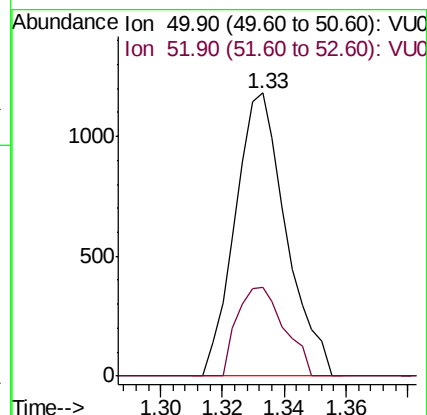
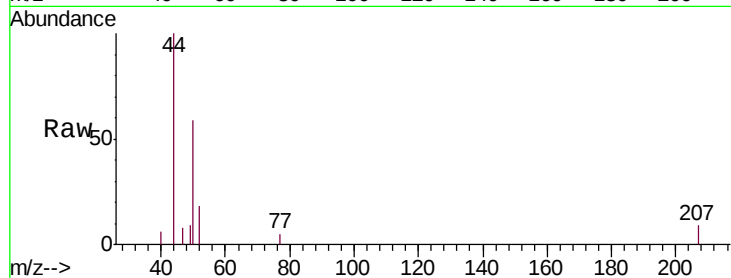
MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 1353

Ion Ratio Lower Upper

50 100

52 31.4 26.5 39.7



#4

Vinyl Chloride

Concen: 0.51 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025674.D

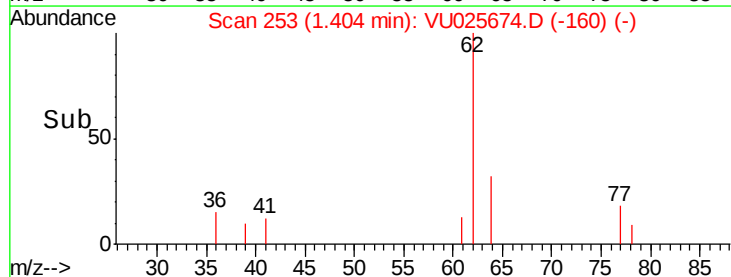
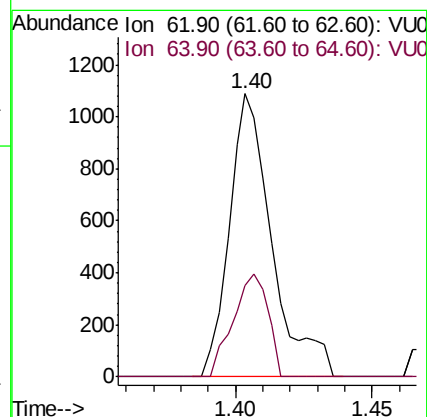
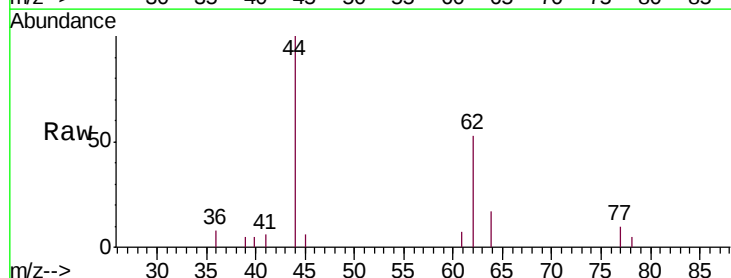
Acq: 27 Jul 2018 17:15

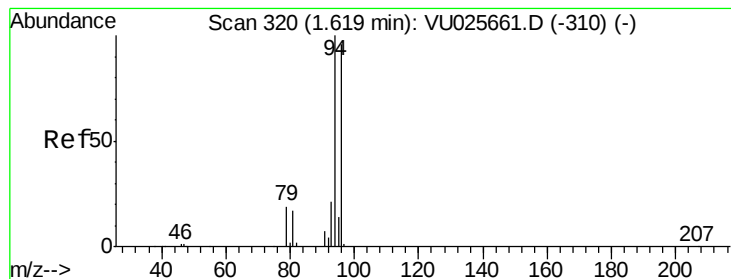
Tgt Ion: 62 Resp: 1184

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.0





#5

Bromomethane

Concen: 0.66 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

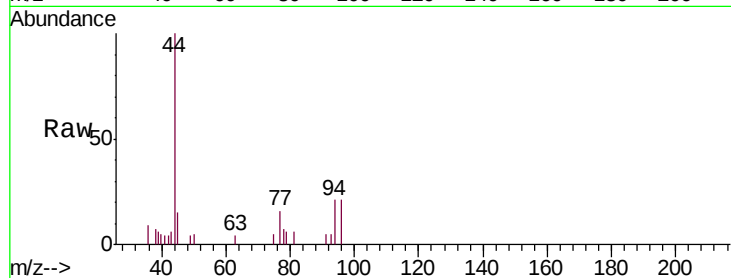
MDL-WATER-03-QT3-2018

Tot Ion: 94 Resp: 750

Ion Ratio Lower Upper

94 100

96 98.1 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

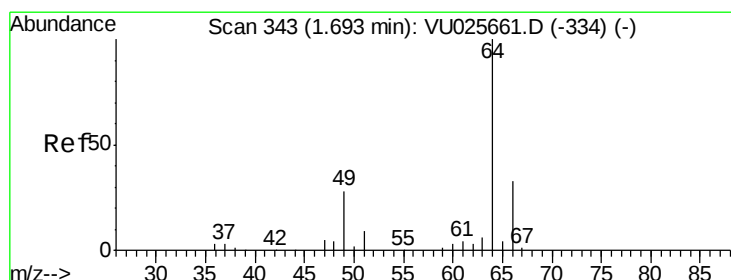
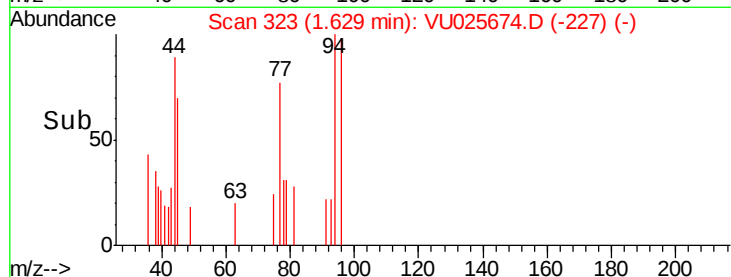
600

400

200

0

Time-->



#6

Chloroethane

Concen: 0.56 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025674.D

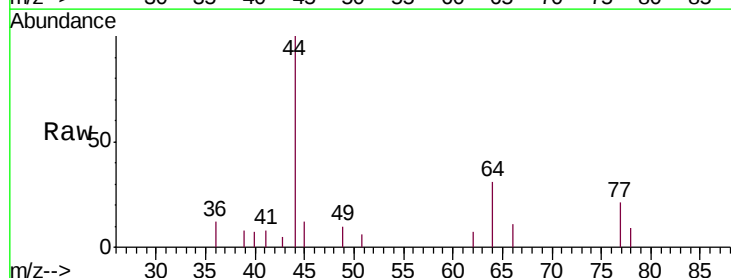
Acq: 27 Jul 2018 17:15

Tgt Ion: 64 Resp: 755

Ion Ratio Lower Upper

64 100

66 34.8 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

800

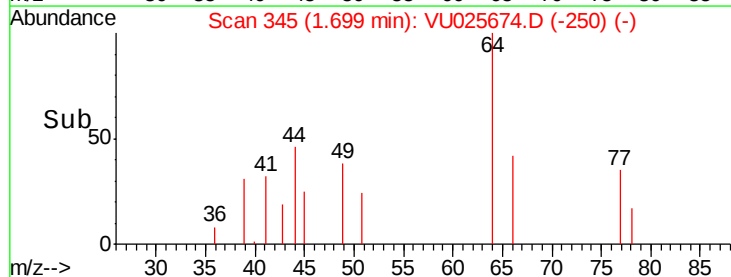
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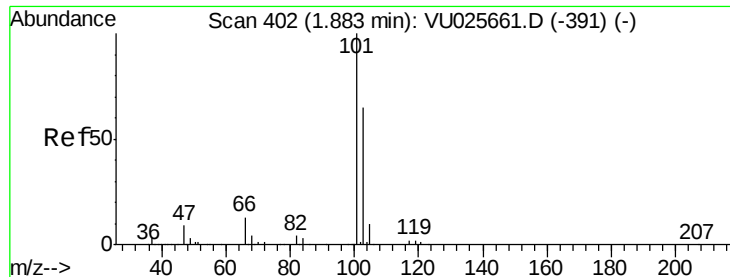
400

200

0

Time-->





#7

Trichlorofluoromethane

Concen: 0.54 ug/l

RT: 1.89 min Scan# 404

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

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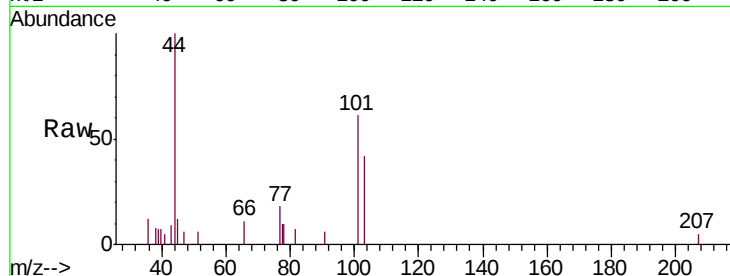
MDL-WATER-03-QT3-2018

Tot Ion:101 Resp: 1827

Ion Ratio Lower Upper

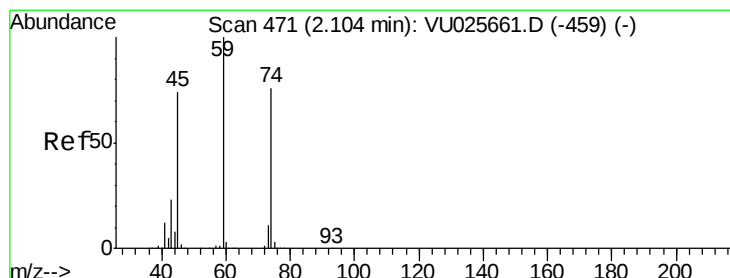
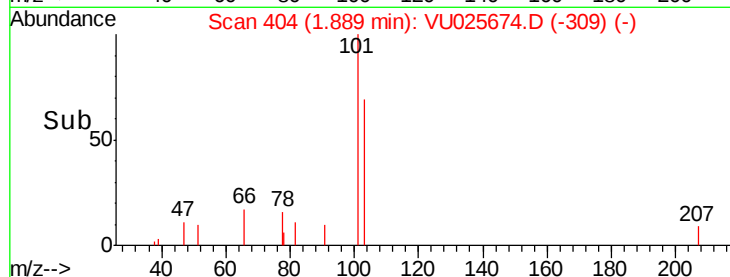
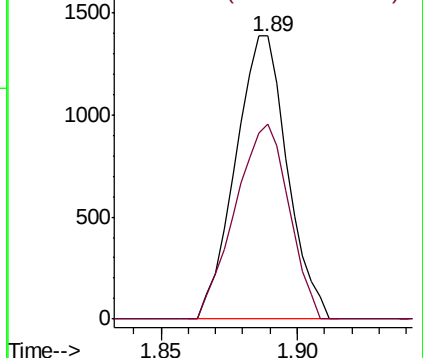
101 100

103 69.0 52.2 78.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.58 ug/l

RT: 2.10 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU025674.D

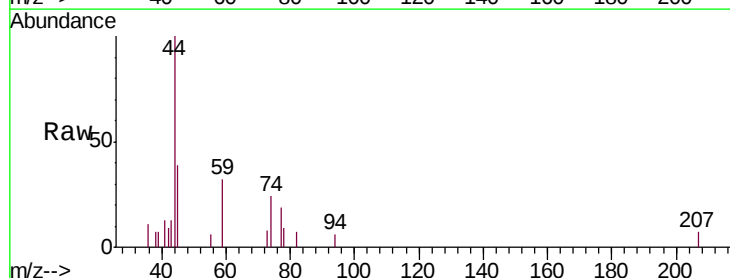
Acq: 27 Jul 2018 17:15

Tgt Ion: 74 Resp: 707

Ion Ratio Lower Upper

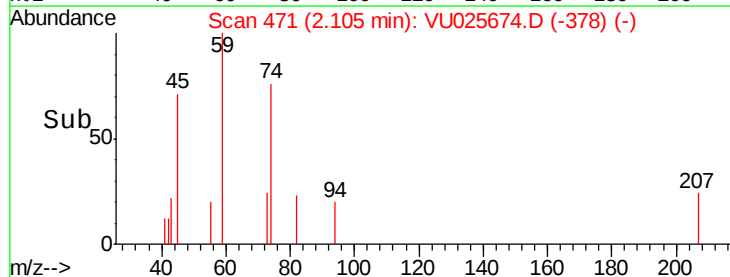
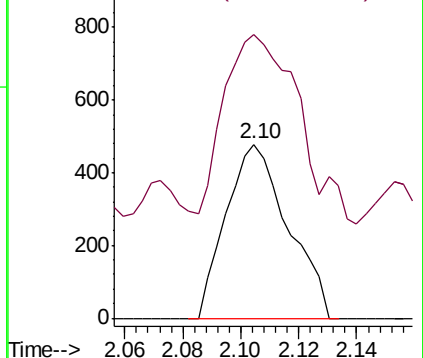
74 100

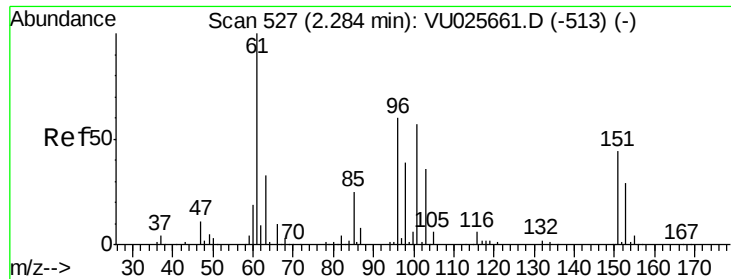
45 131.7 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.57 ug/l

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

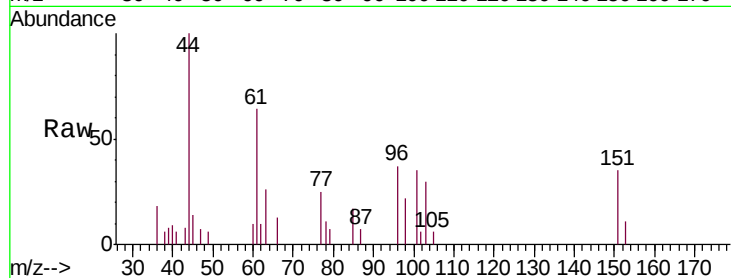
Tot Ion:101 Resp: 1117

Ion Ratio Lower Upper

101 100

85 52.6 36.0 54.0

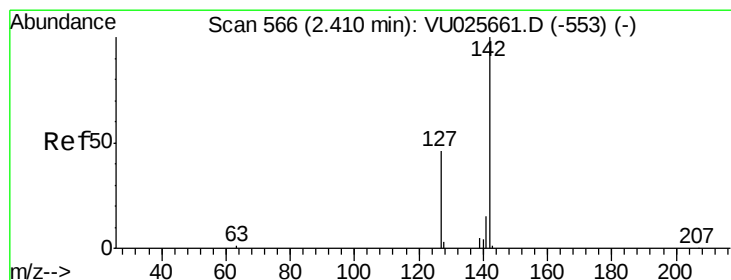
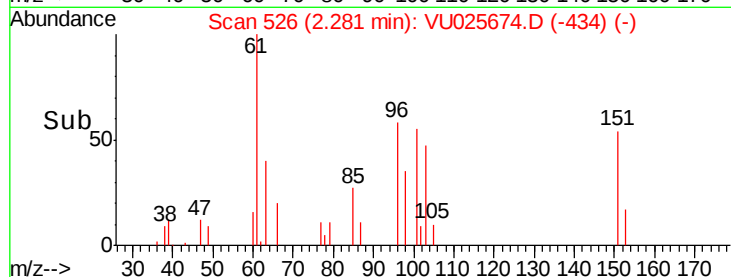
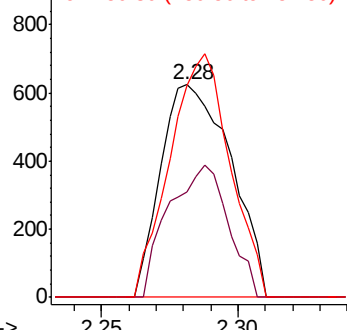
151 97.9 65.6 98.4



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: 8.87 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

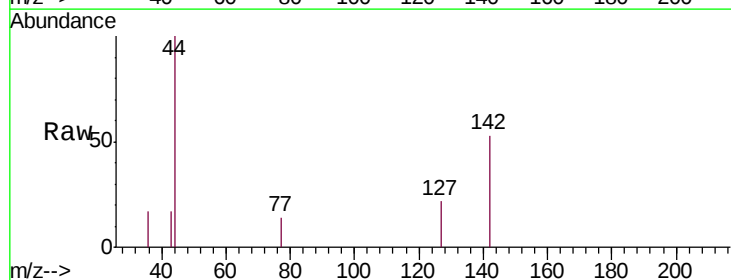
Tgt Ion:142 Resp: 595

Ion Ratio Lower Upper

142 100

127 39.2 36.5 54.7

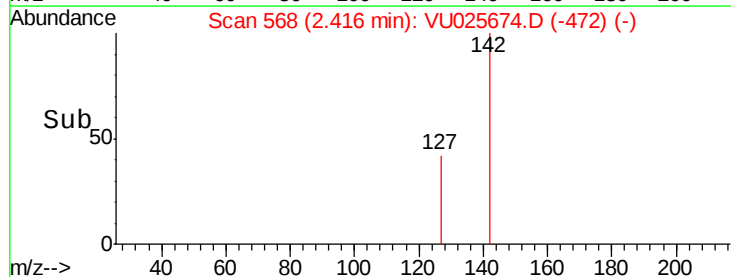
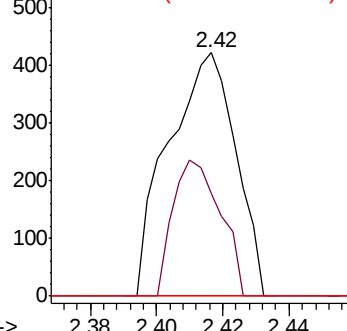
141 0.0 11.4 17.2#

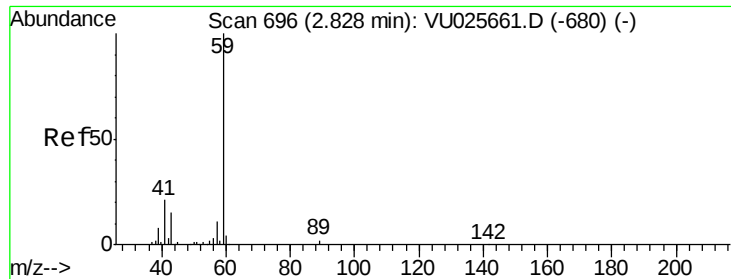


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

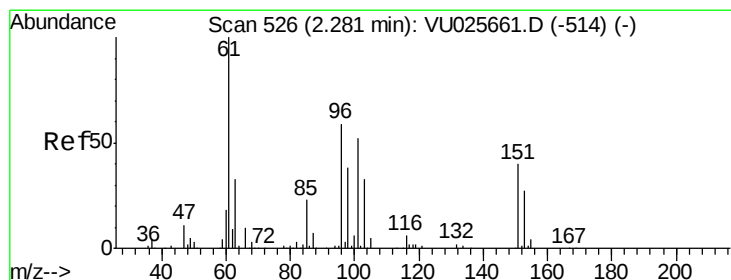
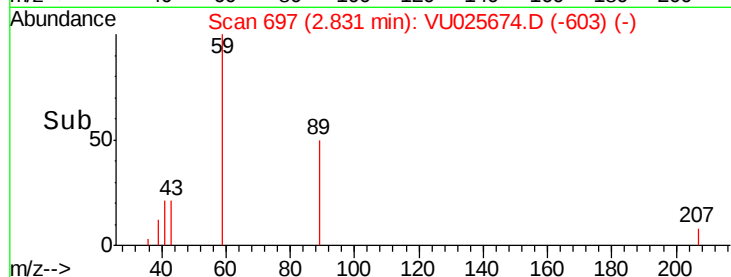
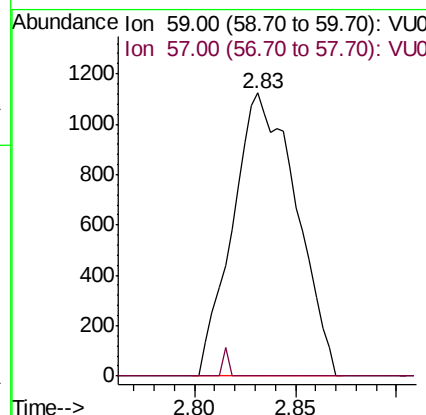
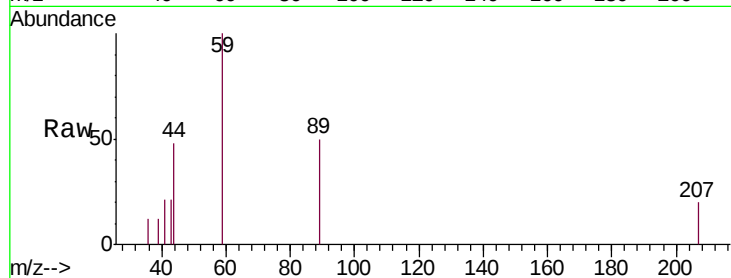




#11
Tert butyl alcohol
Concen: 4.22 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

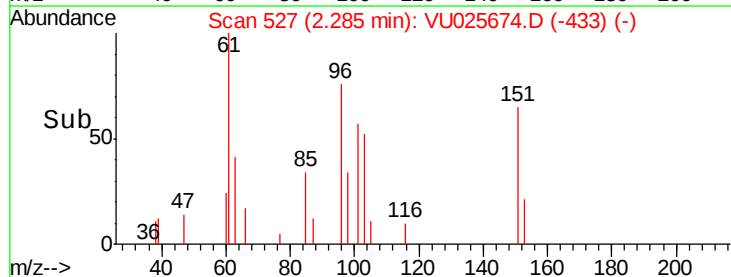
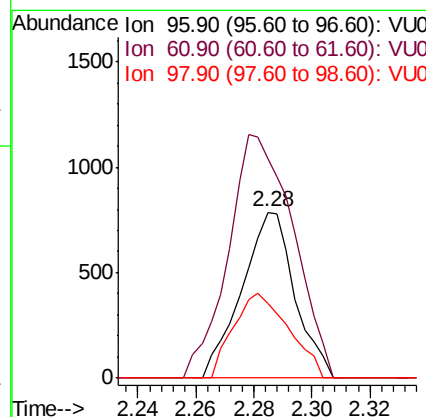
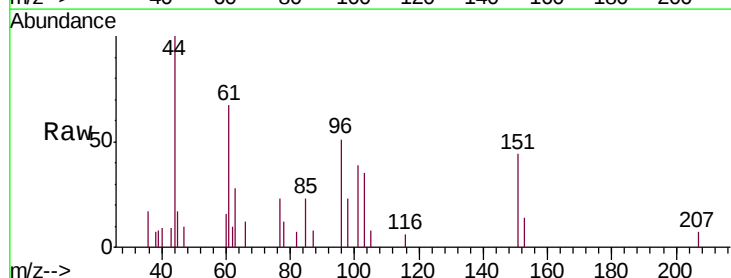
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

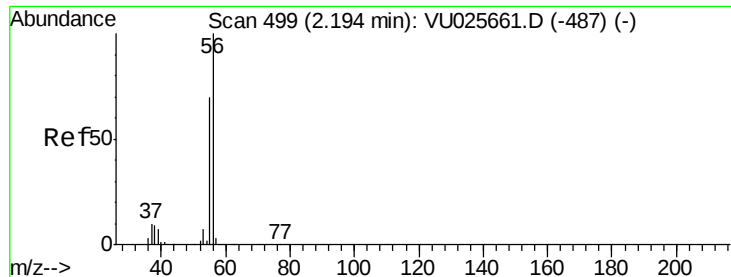
Tot Ion: 59 Resp: 2460
Ion Ratio Lower Upper
59 100
57 0.9 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 0.54 ug/l
RT: 2.28 min Scan# 527
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 96 Resp: 999
Ion Ratio Lower Upper
96 100
61 132.4 140.2 210.4#
98 45.1 49.3 73.9#





#13

Acrolein

Concen: 2.89 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

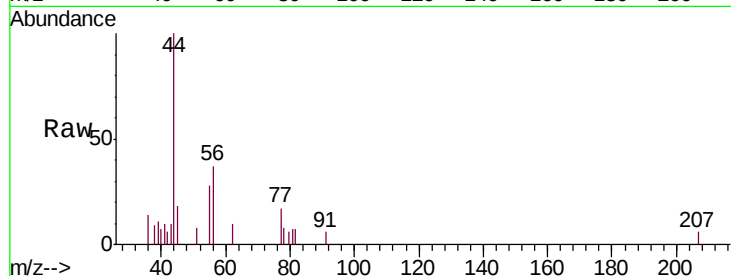
MDL-WATER-03-QT3-2018

Tot Ion: 56 Resp: 1034

Ion Ratio Lower Upper

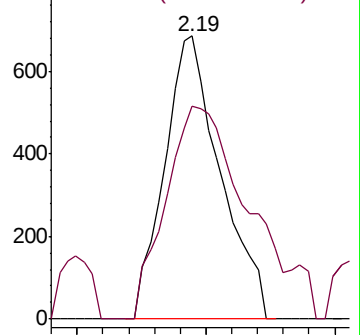
56 100

55 112.7 57.2 85.8#

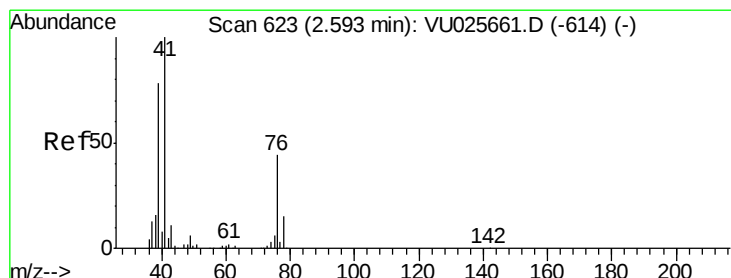
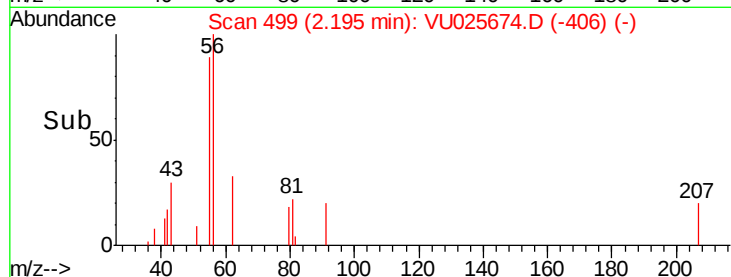


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



Time-->



#14

Allyl chloride

Concen: 0.54 ug/l

RT: 2.59 min Scan# 622

Delta R.T. -0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

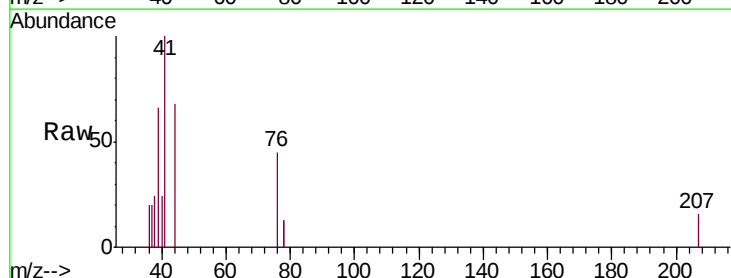
Tgt Ion: 41 Resp: 1775

Ion Ratio Lower Upper

41 100

39 82.1 60.6 91.0

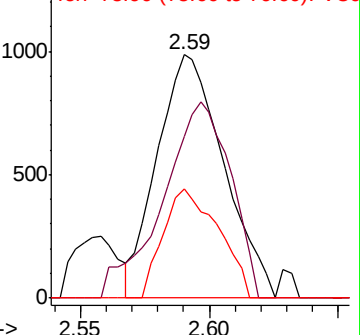
76 37.3 30.5 45.7



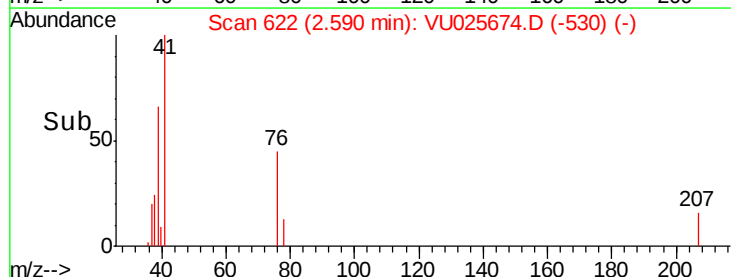
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0



Time-->





#15

Acrylonitrile

Concen: 3.03 ug/l

RT: 2.94 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

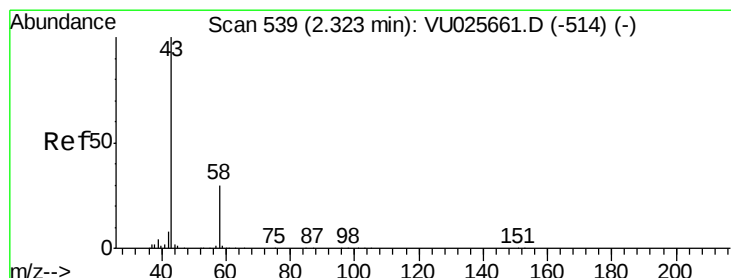
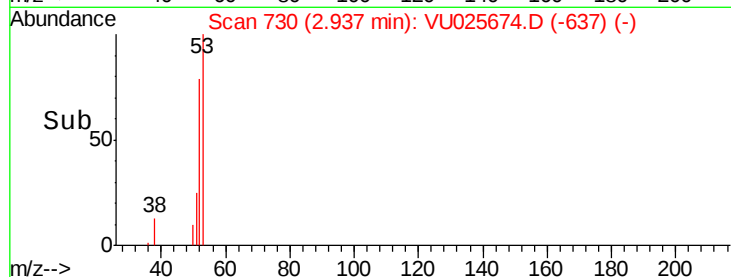
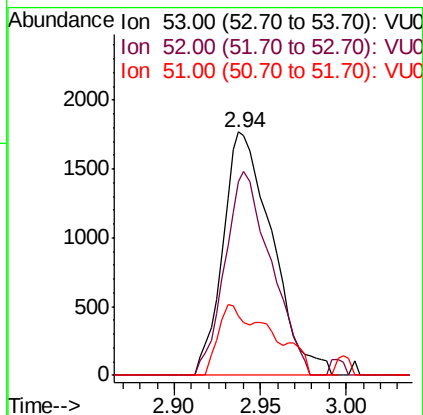
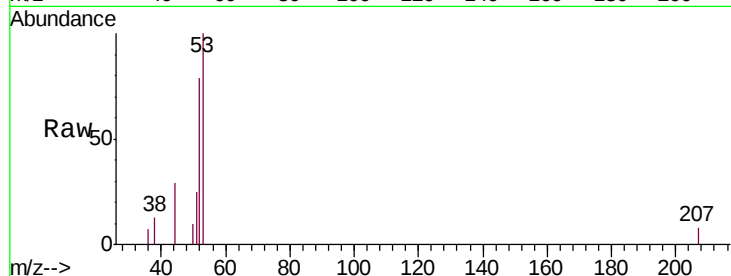
Tot Ion: 53 Resp: 3526

Ion Ratio Lower Upper

53 100

52 78.4 66.6 99.8

51 16.5 29.4 44.2#



#16

Acetone

Concen: 2.92 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025674.D

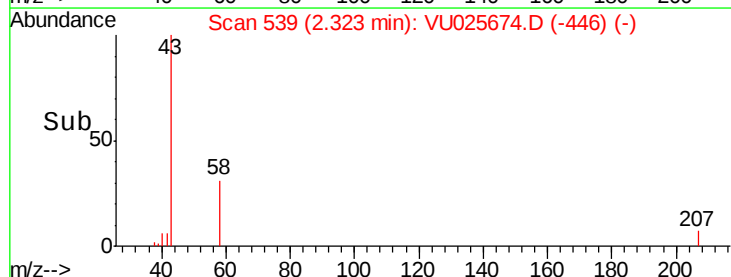
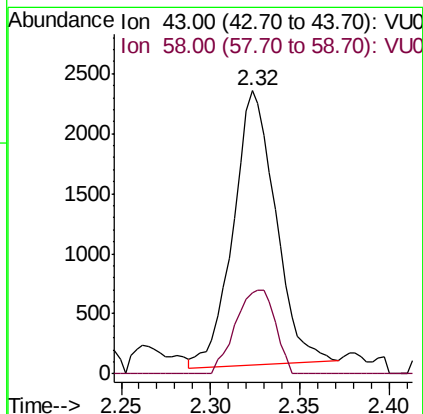
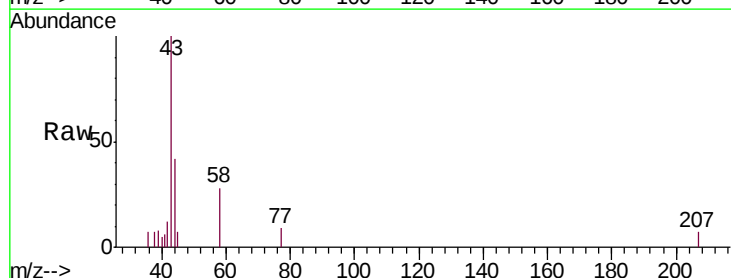
Acq: 27 Jul 2018 17:15

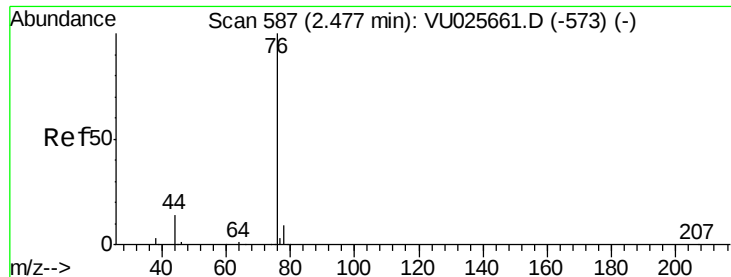
Tgt Ion: 43 Resp: 3783

Ion Ratio Lower Upper

43 100

58 29.9 23.1 34.7





#17

Carbon Disulfide

Concen: 0.70 ug/l

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

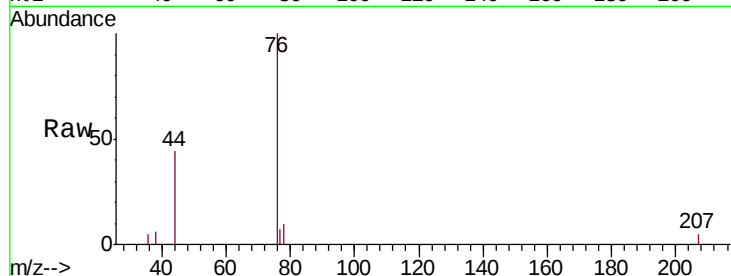
MDL-WATER-03-QT3-2018

Tot Ion: 76 Resp: 4138

Ion Ratio Lower Upper

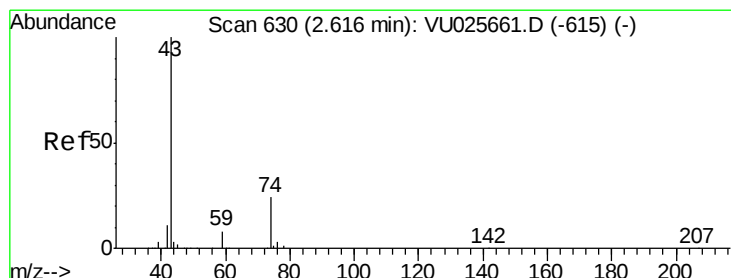
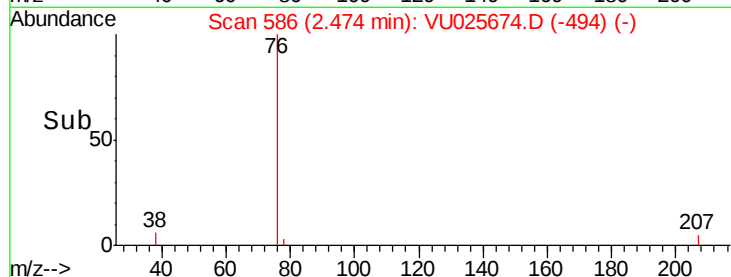
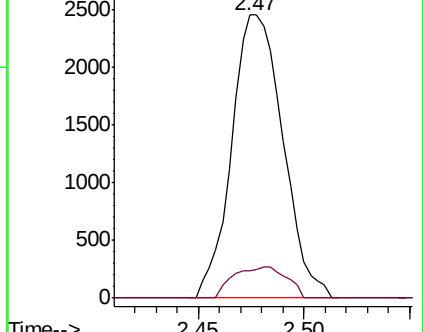
76 100

78 9.6 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VU025661.D (-573) (-)

Ion 77.90 (77.60 to 78.60): VU025661.D (-573) (-)



#18

Methyl Acetate

Concen: 0.53 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025674.D

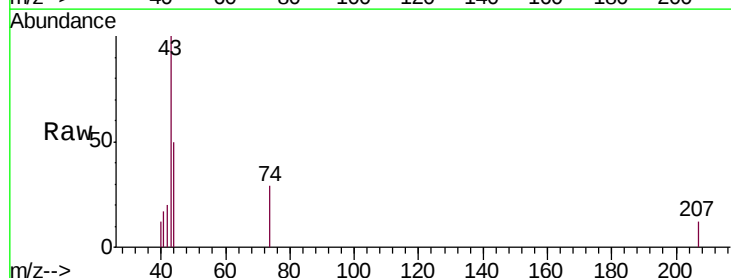
Acq: 27 Jul 2018 17:15

Tgt Ion: 43 Resp: 1647

Ion Ratio Lower Upper

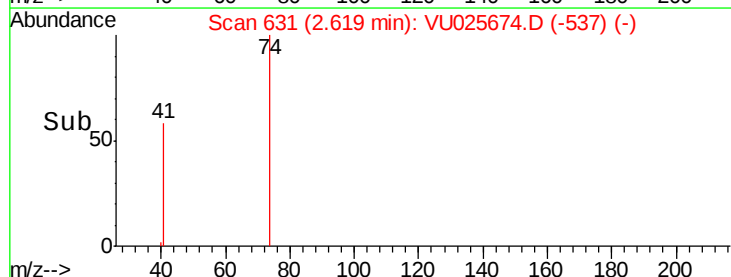
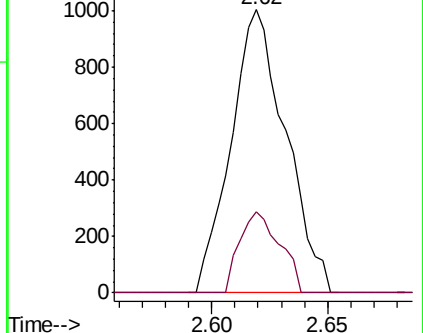
43 100

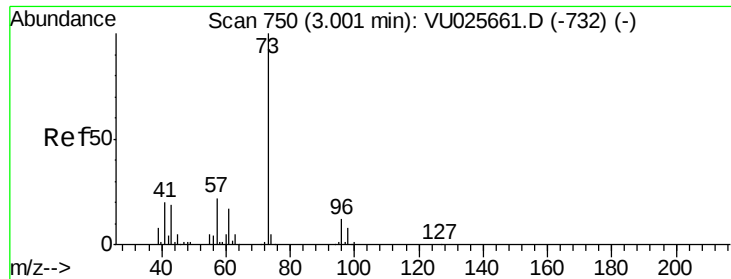
74 20.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-615) (-)

Ion 74.00 (73.70 to 74.70): VU025661.D (-615) (-)

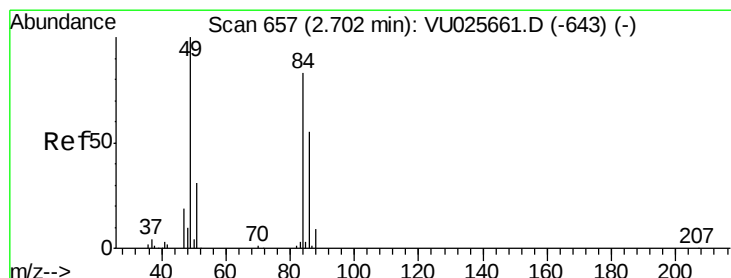
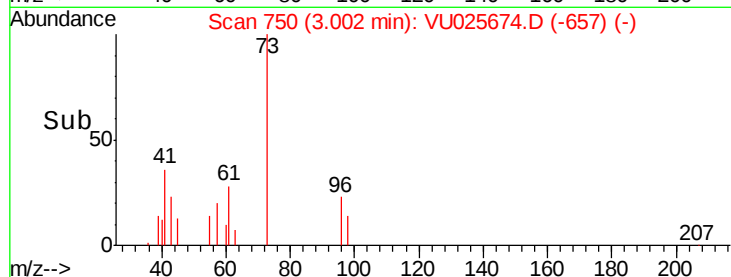
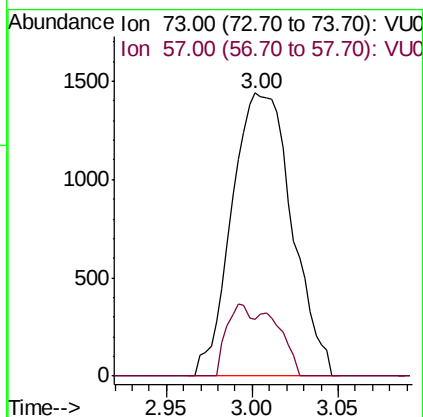
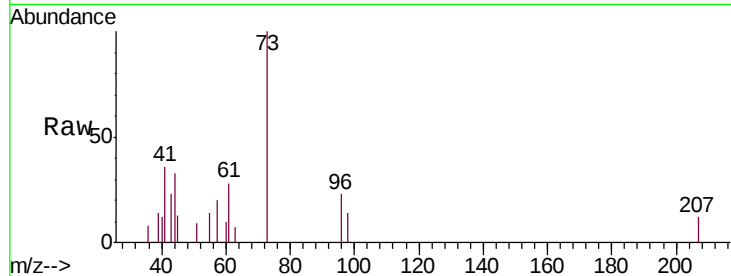




#19
Methvl tert-butvl Ether
Concen: 0.53 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

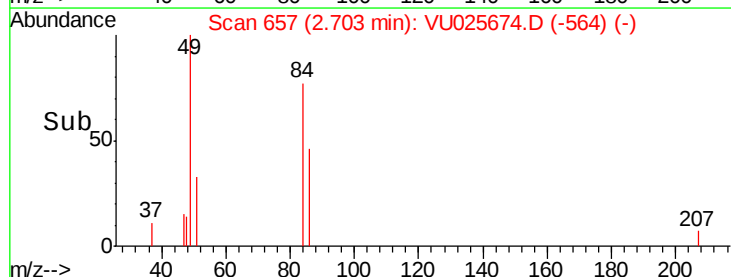
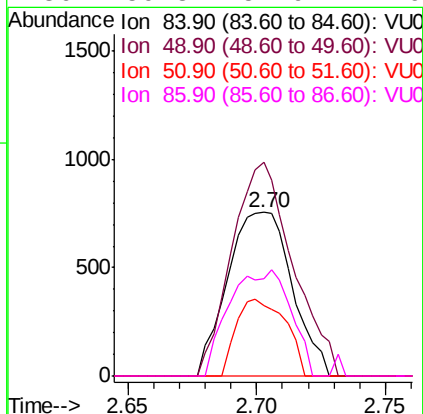
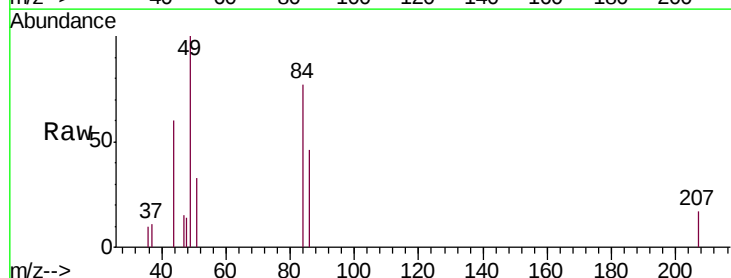
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

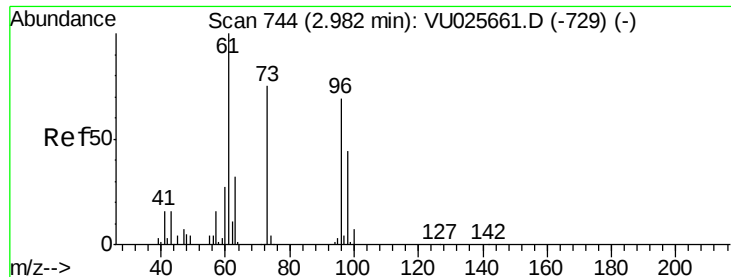
Tot Ion: 73 Resp: 3495
Ion Ratio Lower Upper
73 100
57 20.0 17.4 26.2



#20
Methylene Chloride
Concen: 0.57 ug/l
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 84 Resp: 1321
Ion Ratio Lower Upper
84 100
49 130.6 101.8 152.6
51 43.1 30.8 46.2
86 59.8 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 0.61 ug/l

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

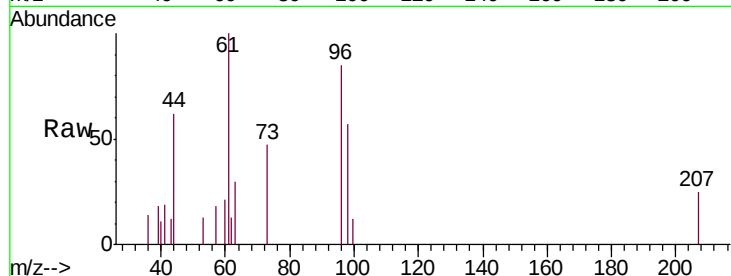
Tot Ion: 96 Resp: 1283

Ion Ratio Lower Upper

96 100

61 117.7 114.5 171.7

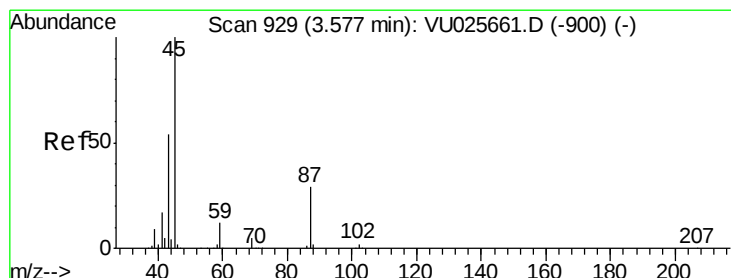
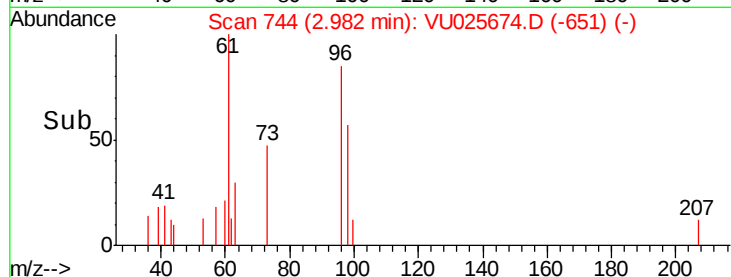
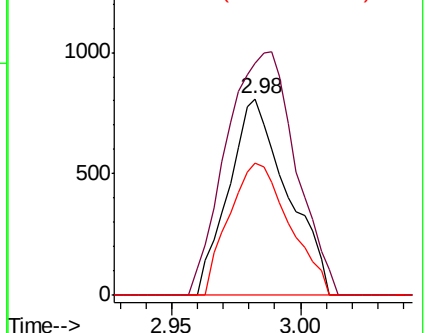
98 67.2 50.5 75.7



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



#22

Diisopropyl ether

Concen: 0.53 ug/l

RT: 3.57 min Scan# 927

Delta R.T. -0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Tgt Ion: 45 Resp: 3433

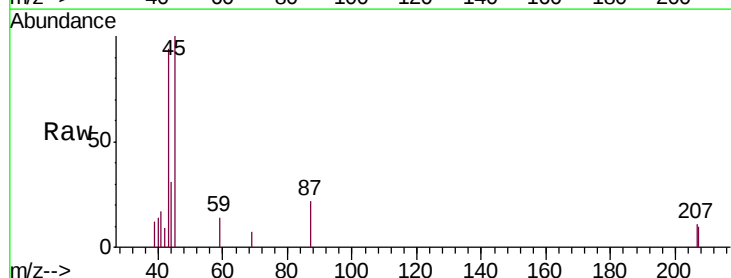
Ion Ratio Lower Upper

45 100

43 83.0 50.9 76.3#

87 22.4 23.8 35.8#

59 14.2 9.0 13.4#

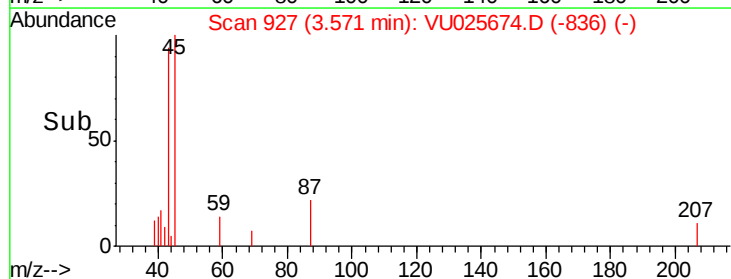
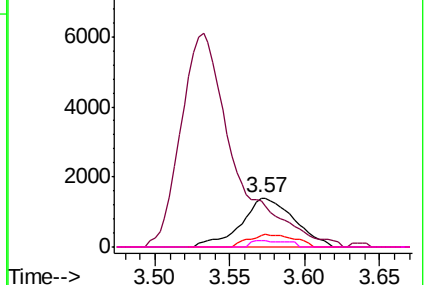


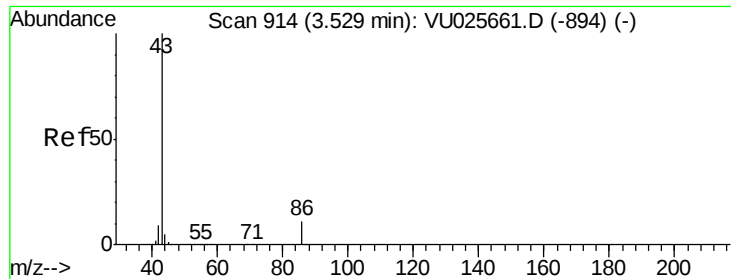
Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 2.68 ug/l

RT: 3.53 min Scan# 915

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

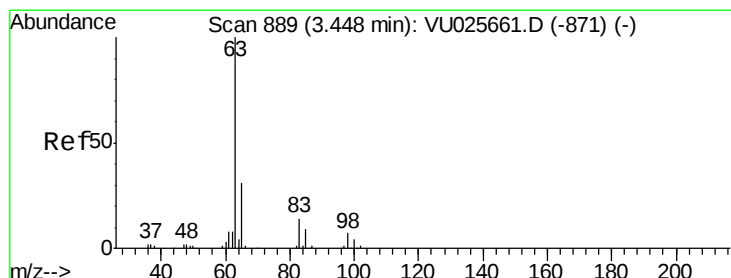
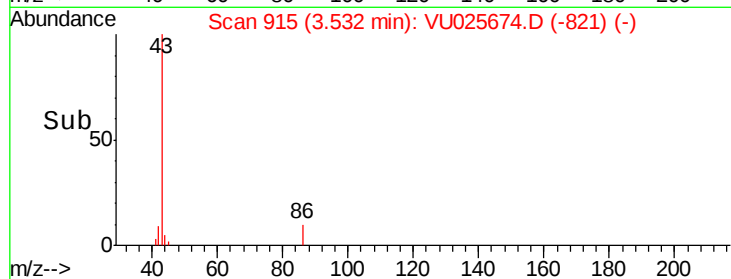
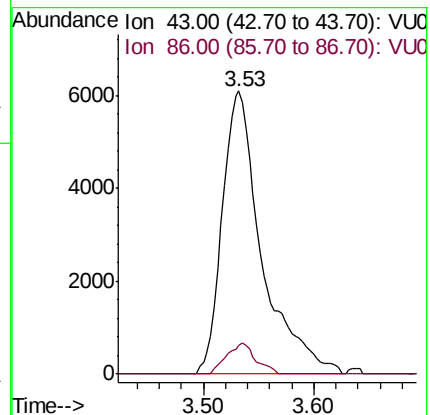
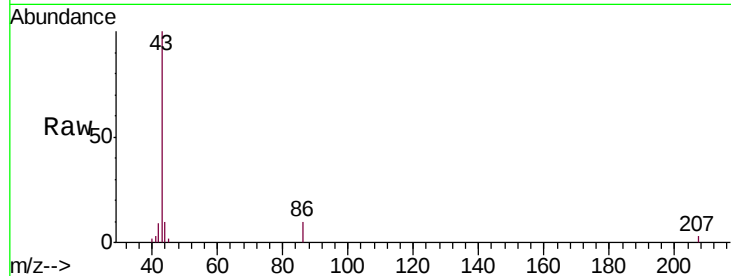
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 15156

Ion Ratio Lower Upper

43 100

86 9.9 8.2 12.2



#24

1,1-Dichloroethane

Concen: 0.49 ug/l

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

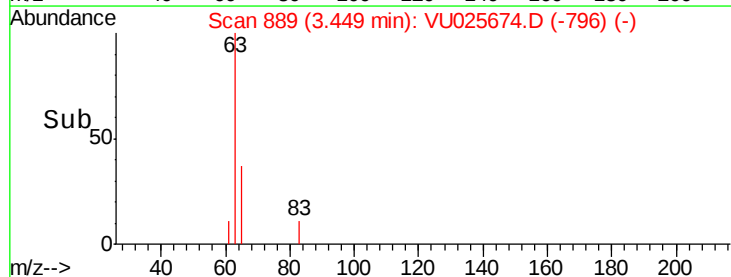
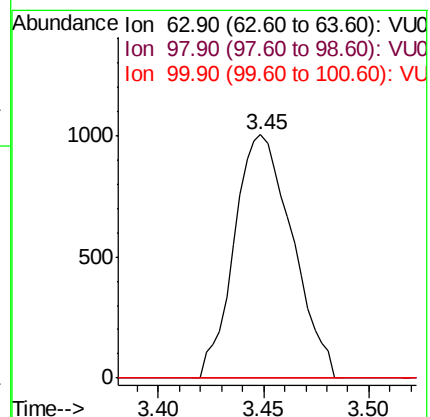
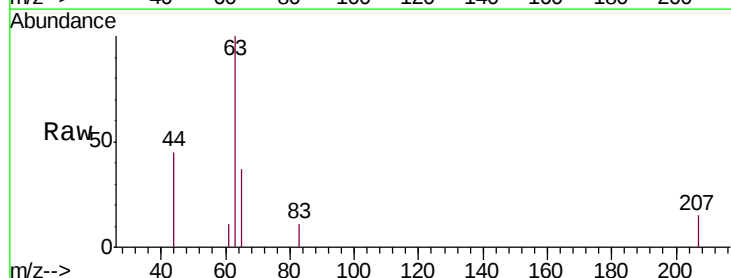
Tgt Ion: 63 Resp: 1915

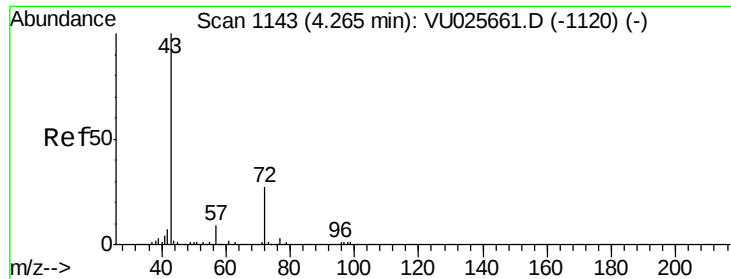
Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 2.91 ug/l

RT: 4.28 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

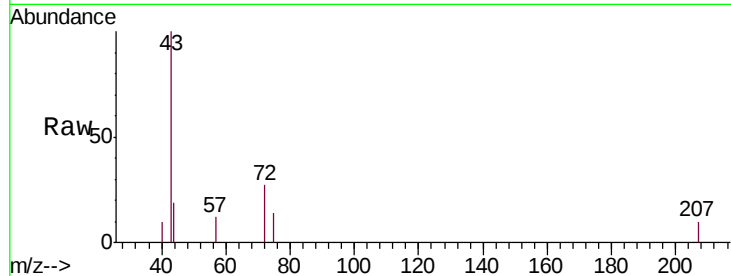
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 5135

Ion Ratio Lower Upper

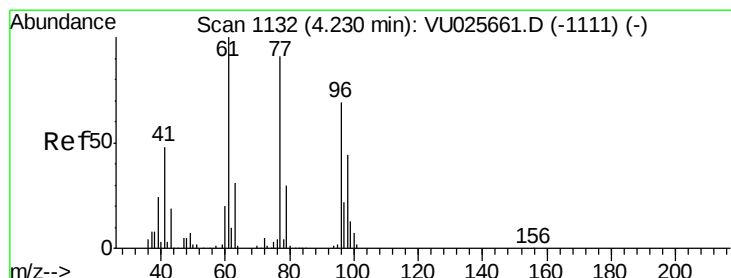
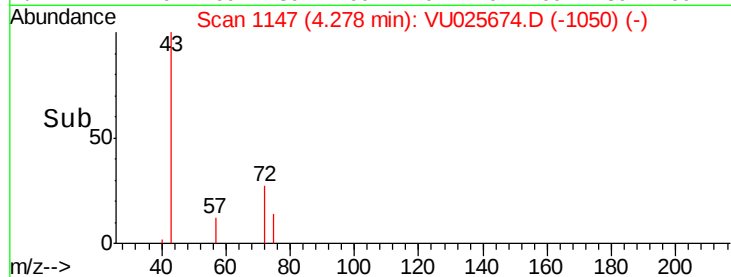
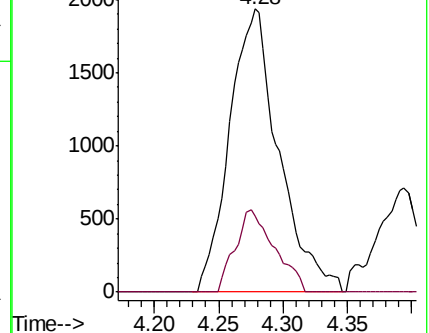
43 100

72 26.7 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 0.50 ug/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.01 min

Lab File: VU025674.D

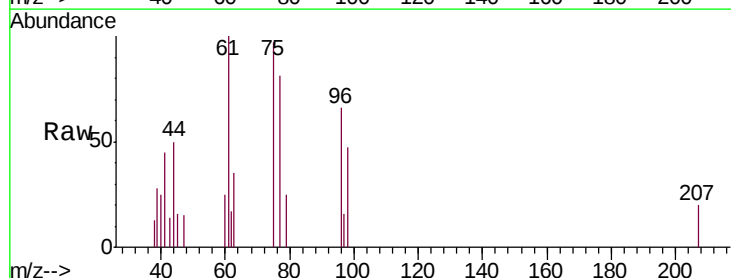
Acq: 27 Jul 2018 17:15

Tgt Ion: 77 Resp: 1773

Ion Ratio Lower Upper

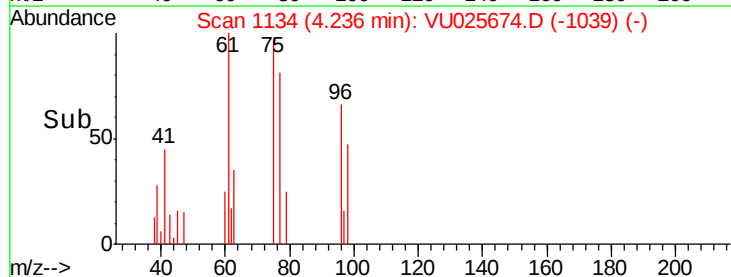
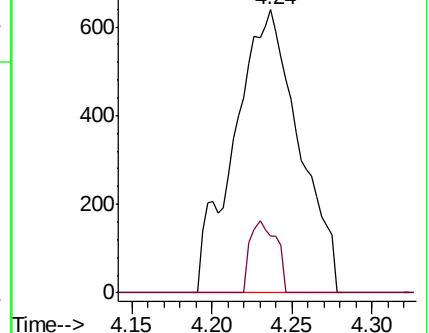
77 100

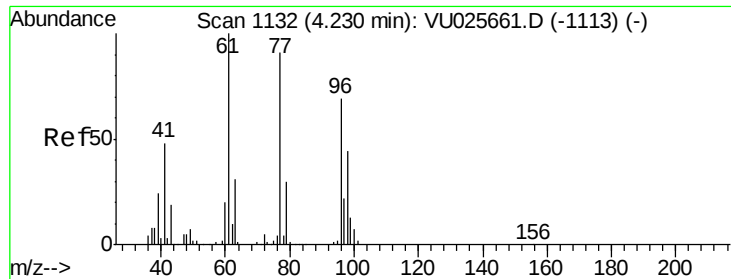
97 10.1 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0

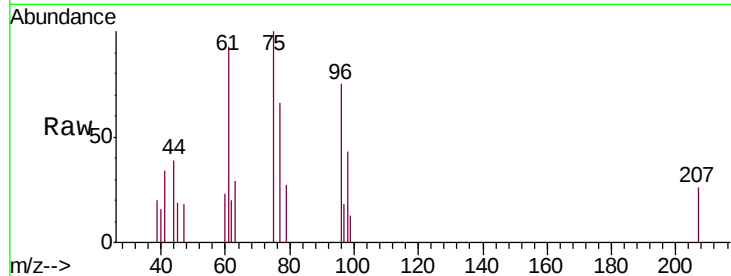




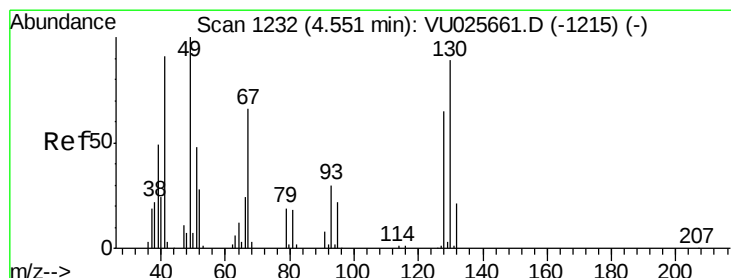
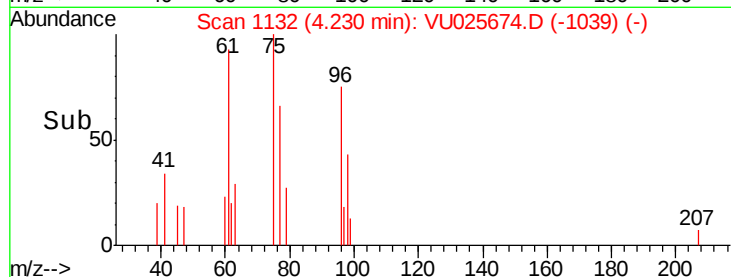
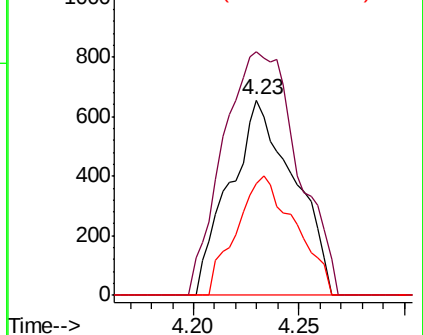
#27
 cis-1,2-Dichloroethene
 Concen: 0.58 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

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

Tot Ion: 96 Resp: 1393
 Ion Ratio Lower Upper
 96 100
 61 144.4 0.0 299.8
 98 55.9 0.0 128.6

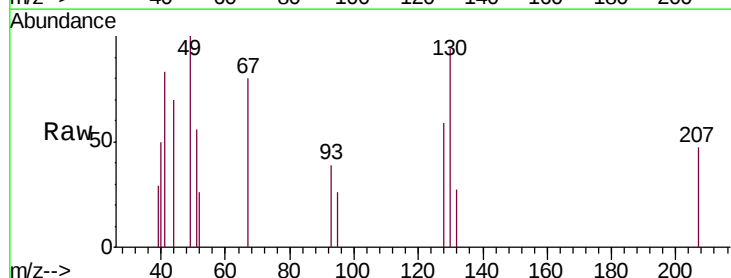


Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0

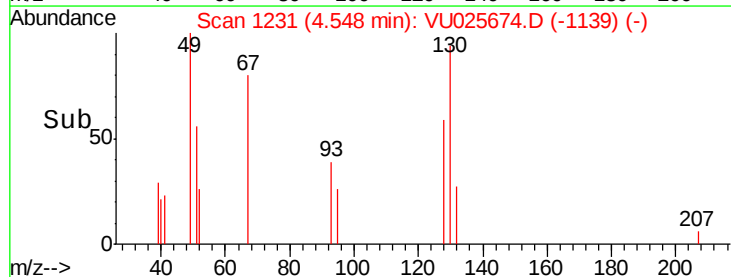
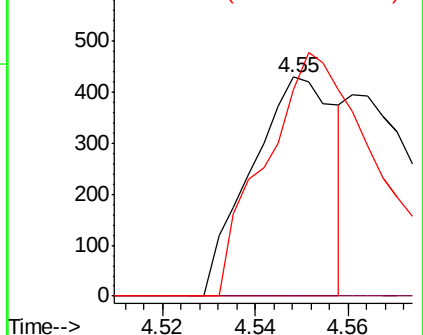


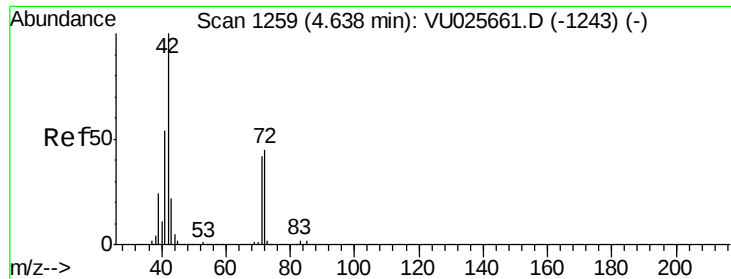
#28
 Bromochloromethane
 Concen: 0.31 ug/l
 RT: 4.55 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion: 49 Resp: 542
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.6
 130 143.7 68.6 102.8#



Abundance Ion 48.90 (48.60 to 49.60): VU0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

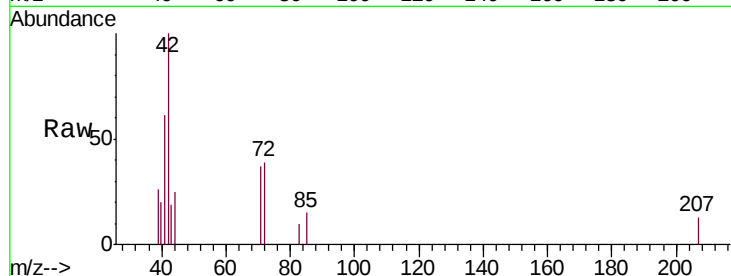




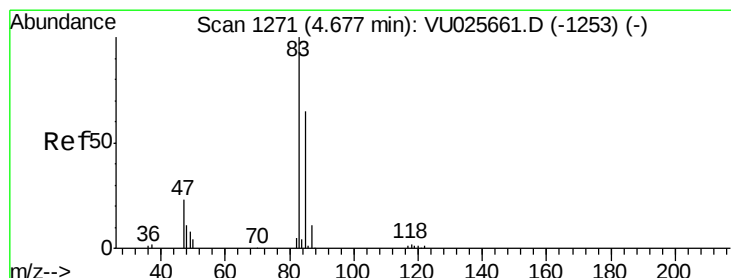
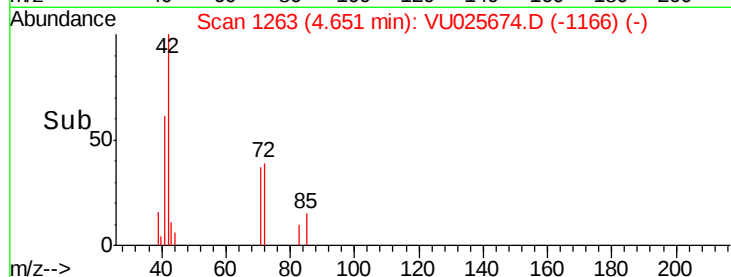
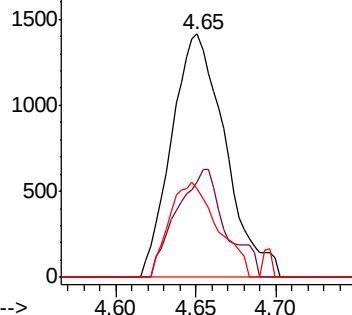
#29
Tetrahydrofuran
Concen: 3.08 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion: 42 Resp: 3256
Ion Ratio Lower Upper
42 100
72 40.4 36.7 55.1
71 35.1 33.9 50.9

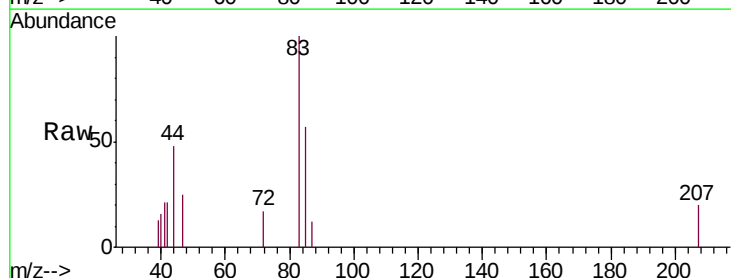


Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

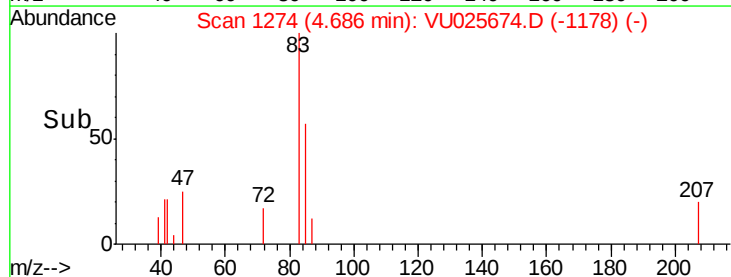
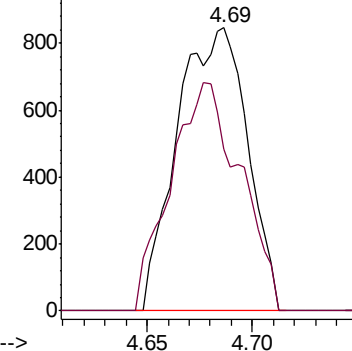


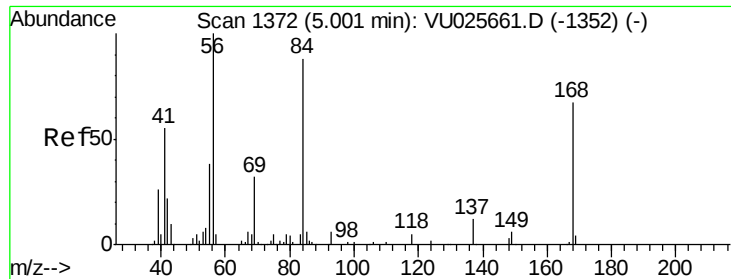
#30
Chloroform
Concen: 0.48 ug/l
RT: 4.69 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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



Abundance Ion 82.90 (82.60 to 83.60): VU0
Ion 84.90 (84.60 to 85.60): VU0

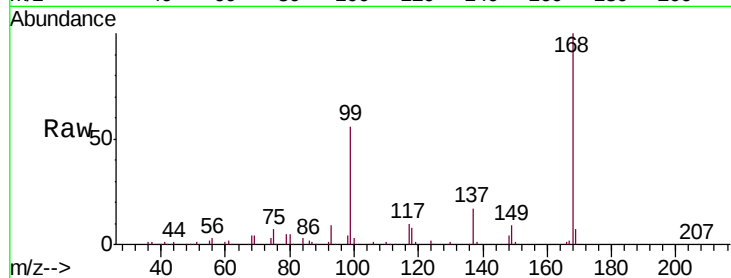




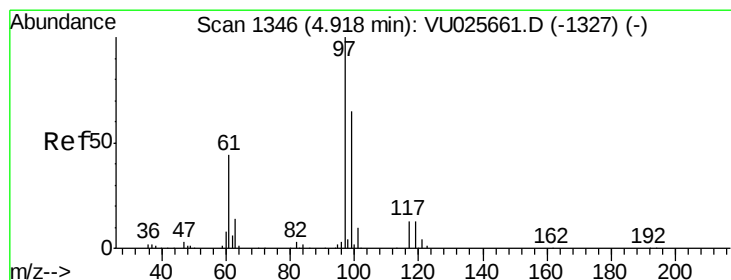
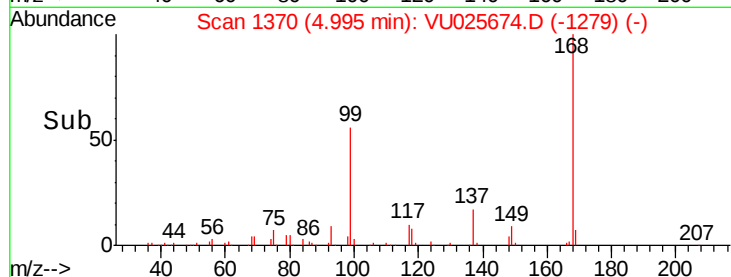
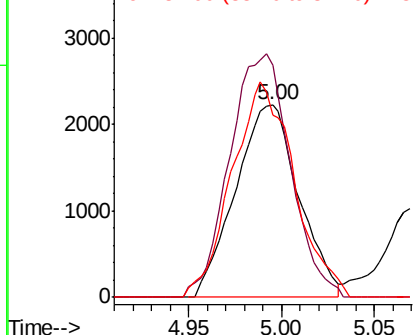
#31
Cyclohexane
Concen: 0.21 ug/l
RT: 5.00 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion: 56 Resp: 5272
Ion Ratio Lower Upper
56 100
69 115.7 26.8 40.2#
84 90.1 69.7 104.5

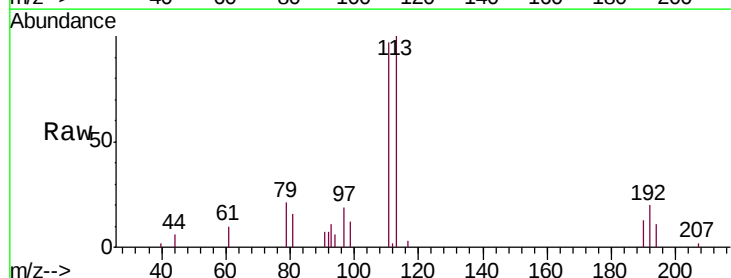


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

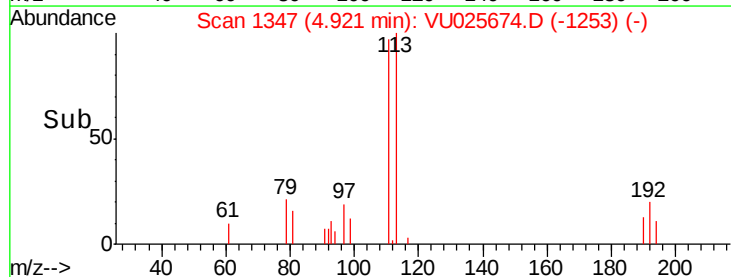
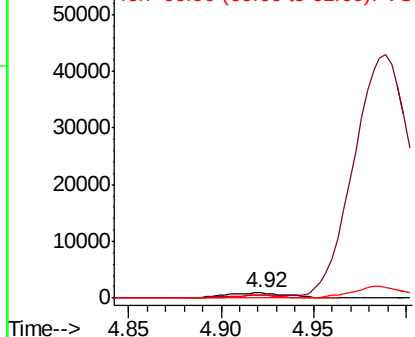


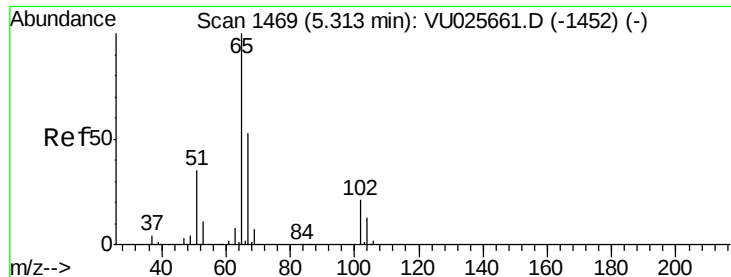
#32
1,1,1-Trichloroethane
Concen: 0.60 ug/l
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 97 Resp: 2205
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 43.1 35.2 52.8



Abundance Ion 96.90 (96.60 to 97.60): VU0
Ion 98.90 (98.60 to 99.60): VU0
Ion 60.90 (60.60 to 61.60): VU0





#33

1,2-Dichloroethane-d4

Concen: 51.94 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

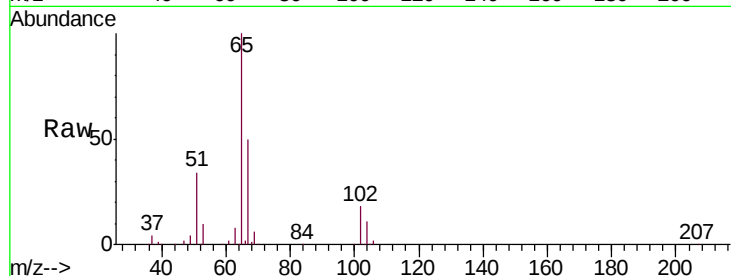
MDL-WATER-03-QT3-2018

Tot Ion: 65 Resp: 138244

Ion Ratio Lower Upper

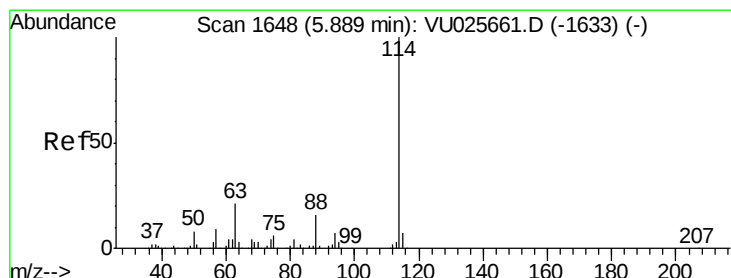
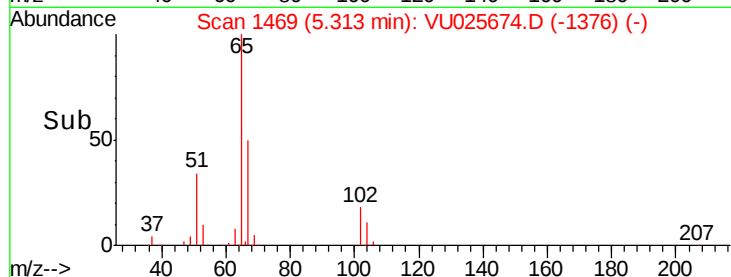
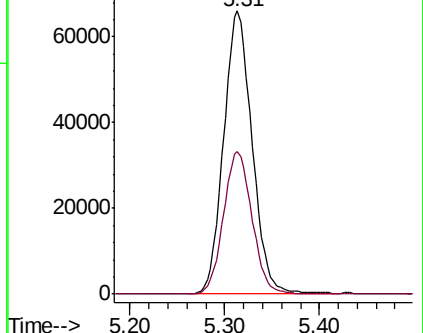
65 100

67 50.4 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025661.D (-1452) (-)

Ion 66.90 (66.60 to 67.60): VU025661.D (-1452) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

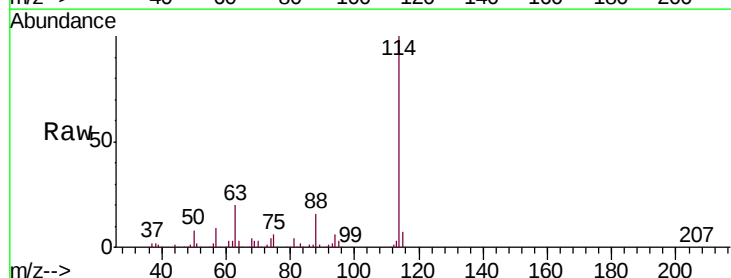
Tgt Ion: 114 Resp: 262932

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.6

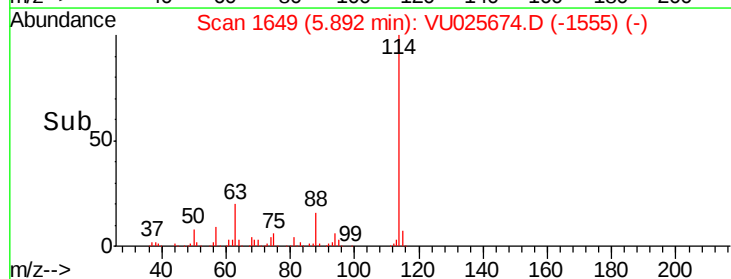
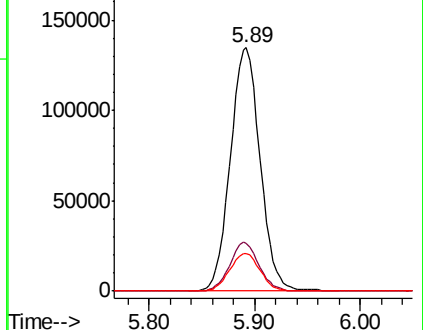
88 15.6 0.0 32.4

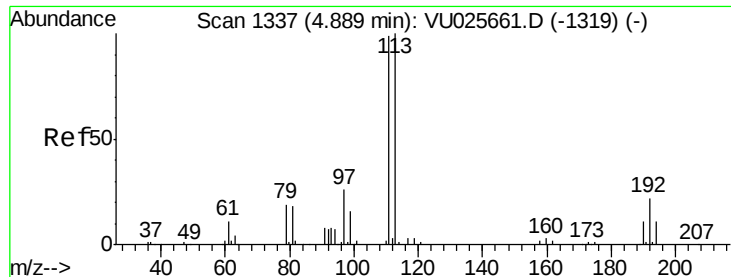


Abundance Ion 113.90 (113.60 to 114.60): VU025661.D (-1633) (-)

Ion 63.00 (62.70 to 63.70): VU025661.D (-1633) (-)

Ion 87.90 (87.60 to 88.60): VU025661.D (-1633) (-)

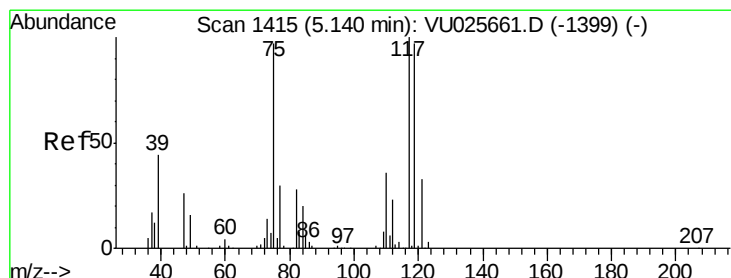
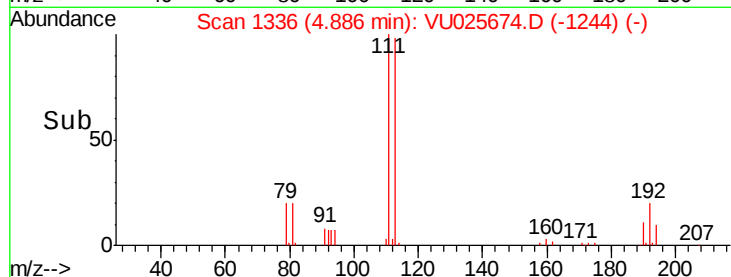
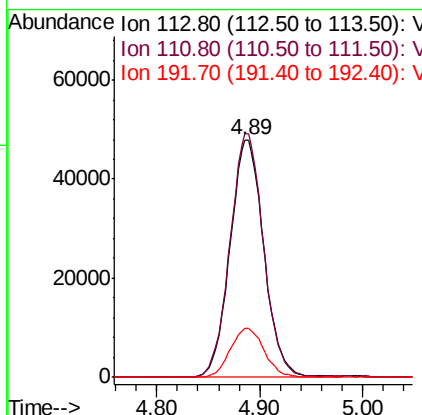
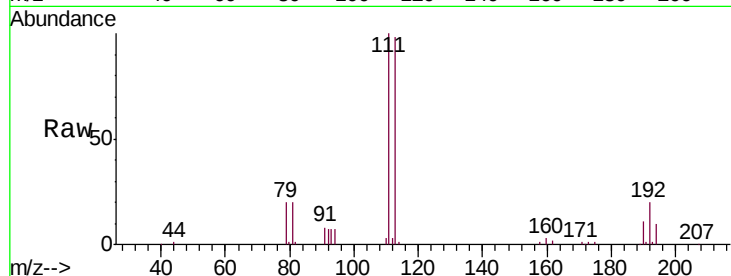




#35
 Dibromofluoromethane
 Concen: 47.78 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

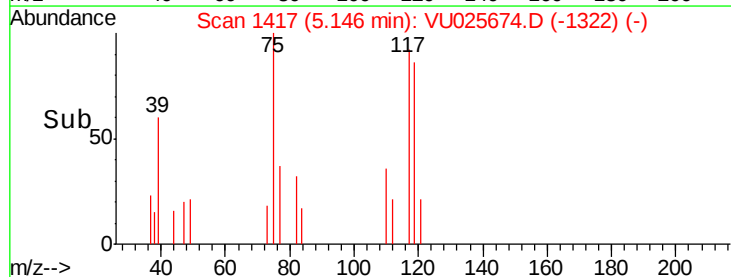
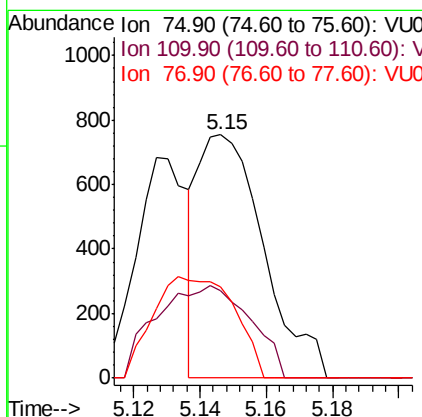
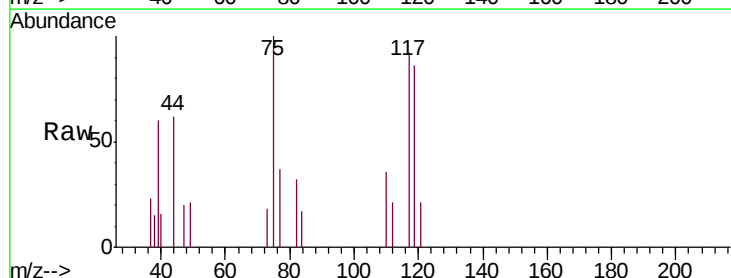
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

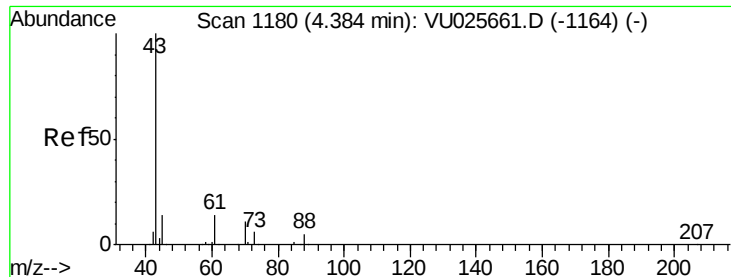
Tot Ion:113 Resp: 109267
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.7 122.5
 192 20.7 17.1 25.7



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

Tgt Ion: 75 Resp: 1029
 Ion Ratio Lower Upper
 75 100
 110 54.6 17.6 52.9#
 77 0.0 24.4 36.6#

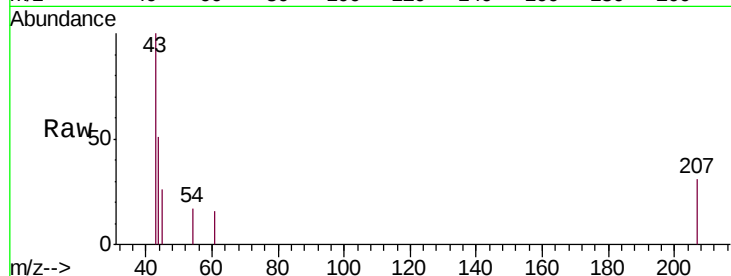




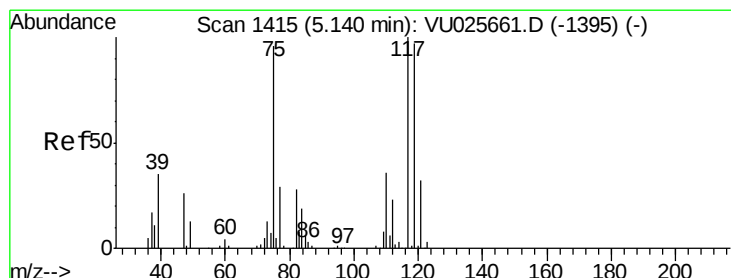
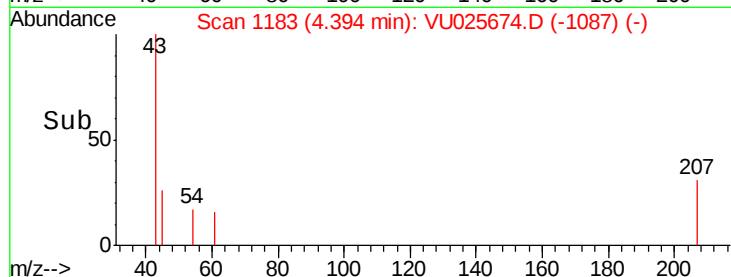
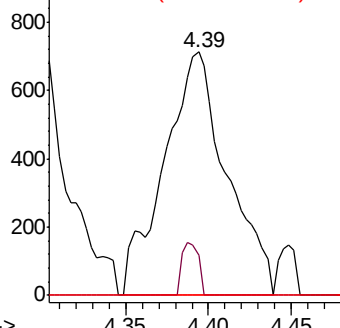
#37
Ethyl Acetate
Concen: 0.59 ug/l
RT: 4.39 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion: 43 Resp: 1875
Ion Ratio Lower Upper
43 100
61 5.6 10.7 16.1#
70 0.0 8.4 12.6#

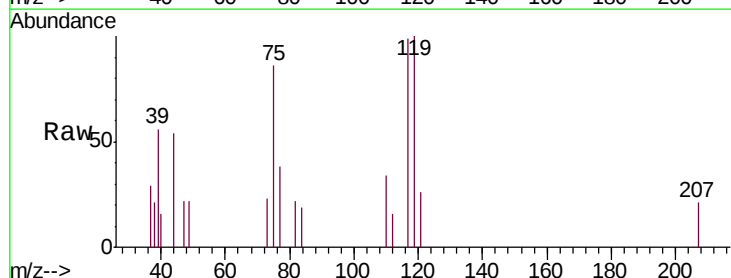


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

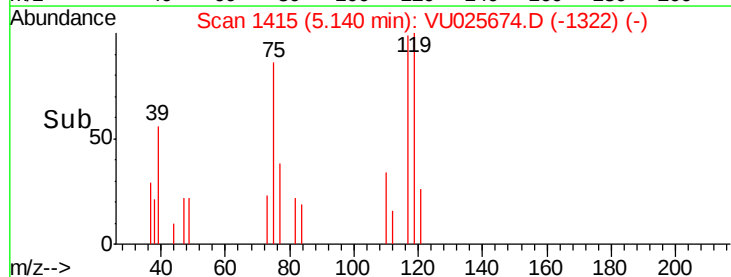
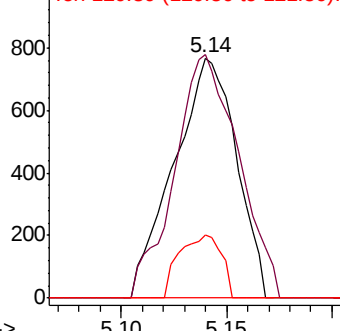


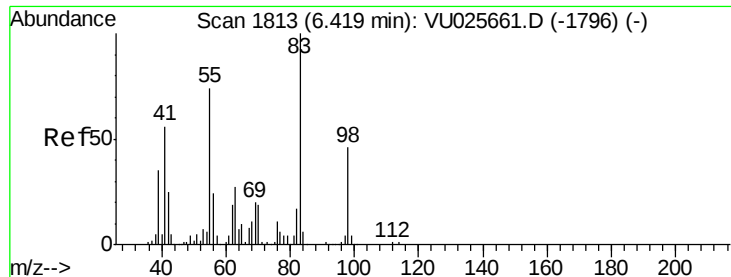
#38
Carbon Tetrachloride
Concen: 0.45 ug/l
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 117 Resp: 1583
Ion Ratio Lower Upper
117 100
119 101.4 75.7 113.5
121 26.6 24.6 36.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

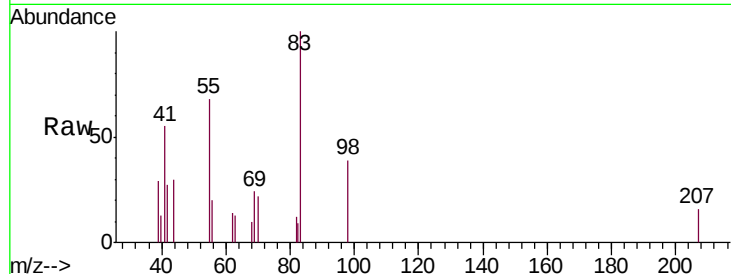




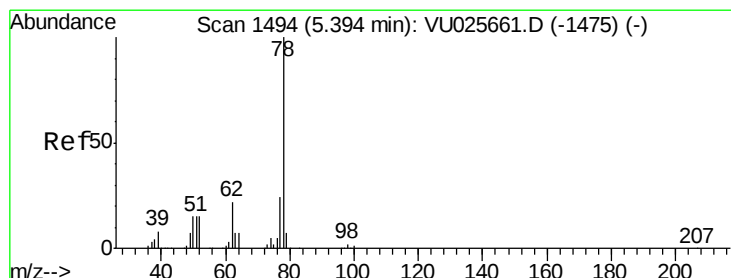
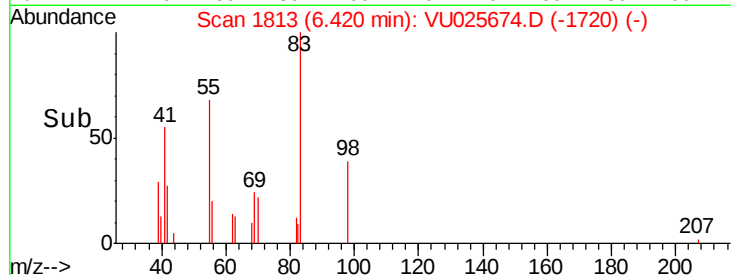
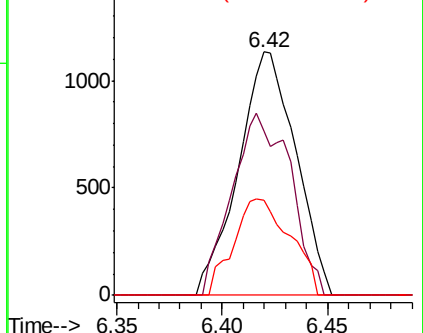
#39
Methvlcvclohexane
Concen: 0.61 ug/l
RT: 6.42 min Scan# 1813
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion: 83 Resp: 2141
Ion Ratio Lower Upper
83 100
55 67.5 60.0 90.0
98 39.0 36.1 54.1

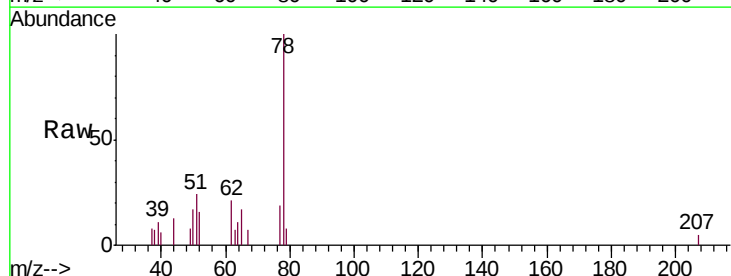


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

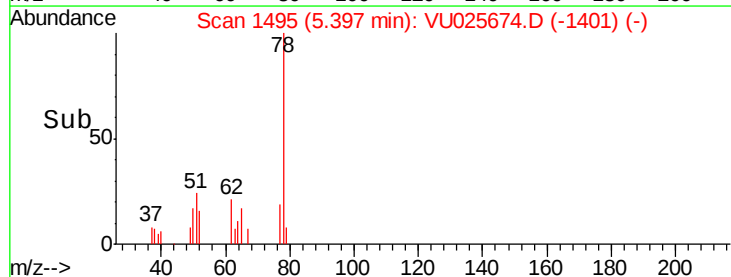
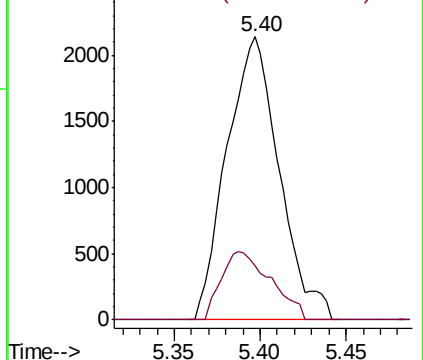


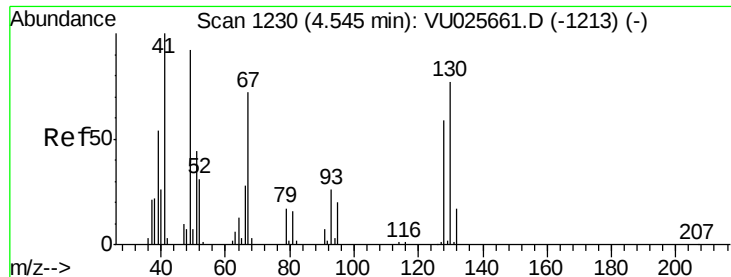
#40
Benzene
Concen: 0.50 ug/l
RT: 5.40 min Scan# 1495
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 78 Resp: 4532
Ion Ratio Lower Upper
78 100
77 19.1 19.8 29.6#



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

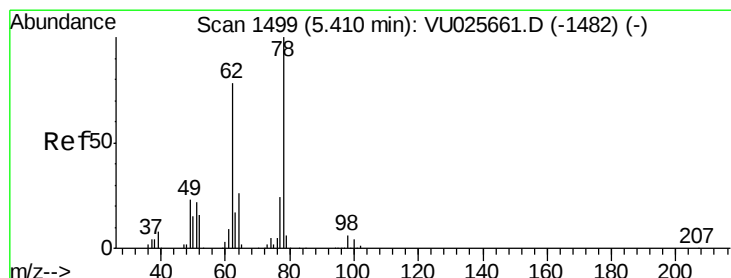
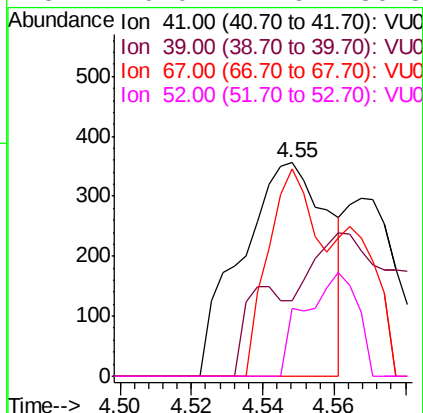
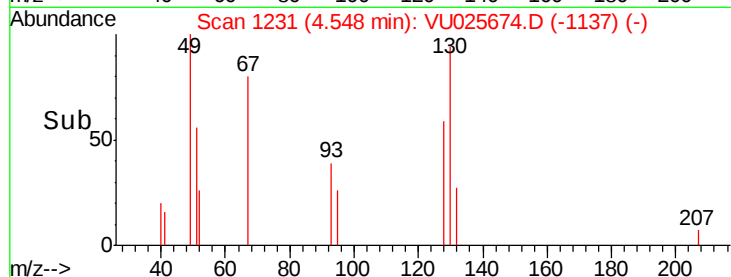
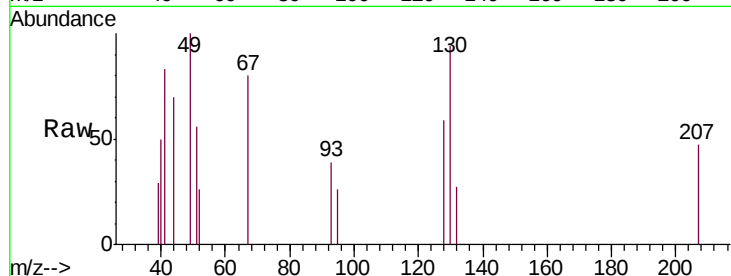




#41
Methacrylonitrile
Concen: 0.34 ug/l
RT: 4.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

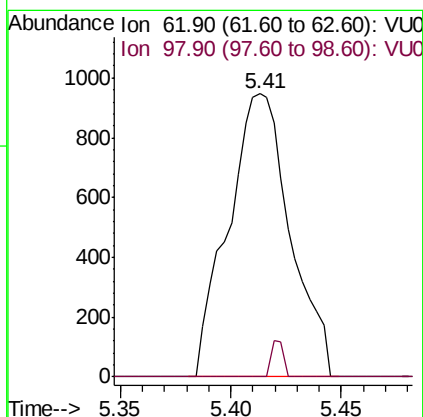
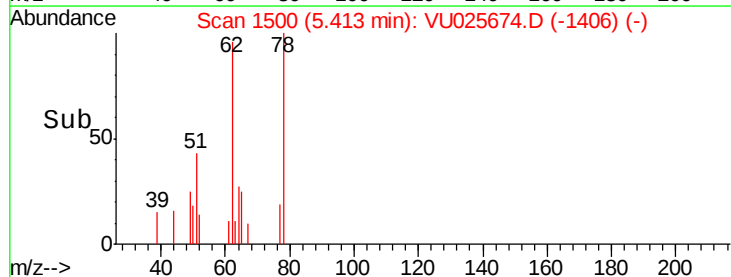
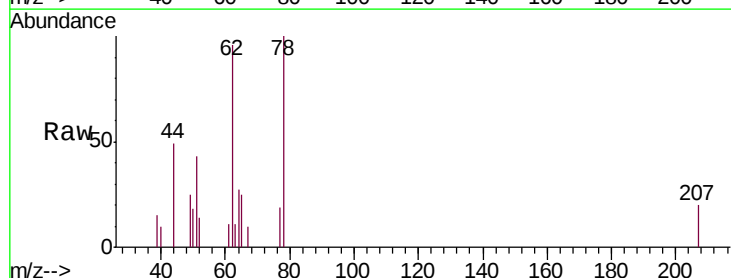
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

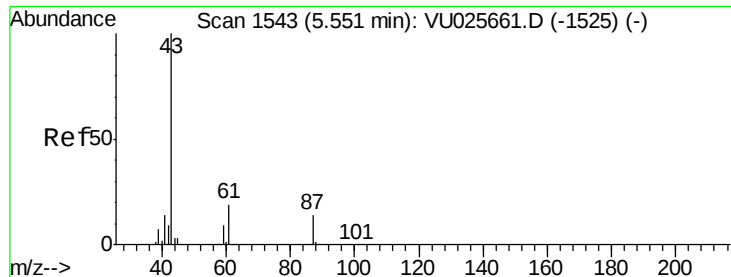
Tot Ion: 41 Resp: 602
Ion Ratio Lower Upper
41 100
39 17.6 44.4 66.6#
67 56.0 56.0 84.0#
52 0.0 24.6 36.8#



#42
1,2-Dichloroethane
Concen: 0.54 ug/l
RT: 5.41 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 62 Resp: 1852
Ion Ratio Lower Upper
62 100
98 2.5 0.0 16.4





#43

Isopropyl Acetate

Concen: 0.57 ug/l

RT: 5.55 min Scan# 1544

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

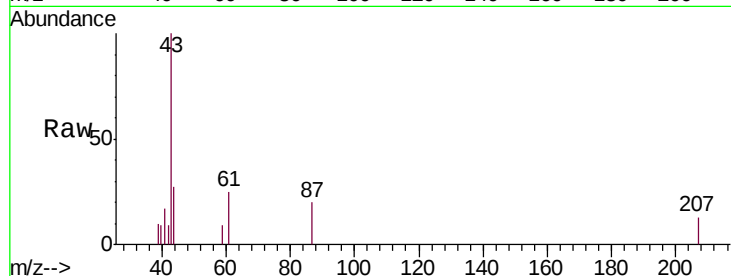
Tot Ion: 43 Resp: 2981

Ion Ratio Lower Upper

43 100

61 17.8 15.5 23.3

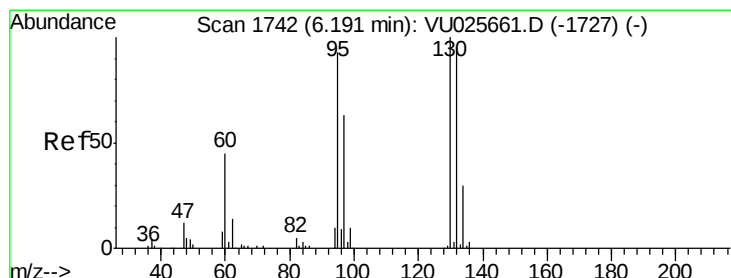
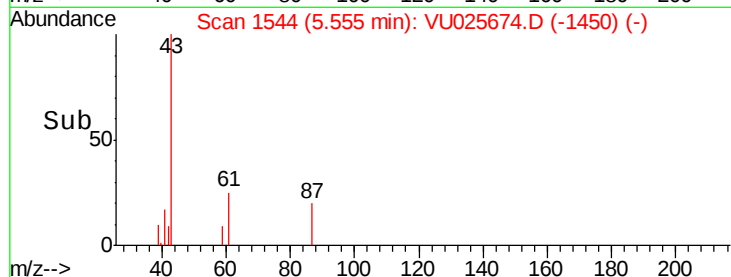
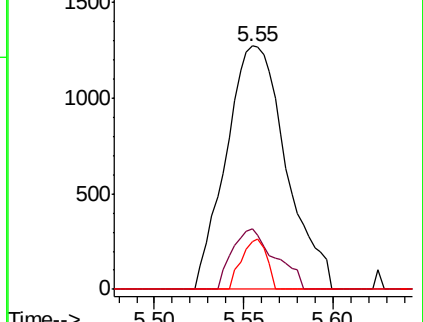
87 8.5 10.6 16.0#



Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-1525) (-)

Ion 61.00 (60.70 to 61.70): VU025661.D (-1525) (-)

Ion 87.00 (86.70 to 87.70): VU025661.D (-1525) (-)



#44

Trichloroethene

Concen: 0.54 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU025674.D

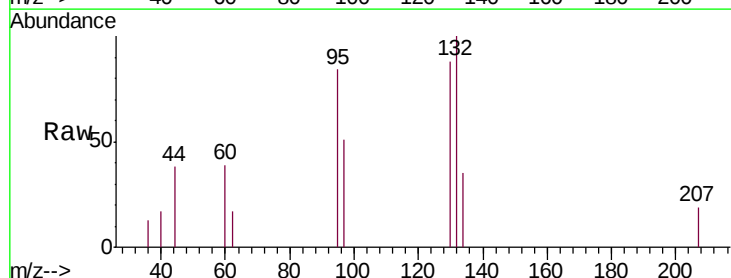
Acq: 27 Jul 2018 17:15

Tgt Ion: 130 Resp: 1343

Ion Ratio Lower Upper

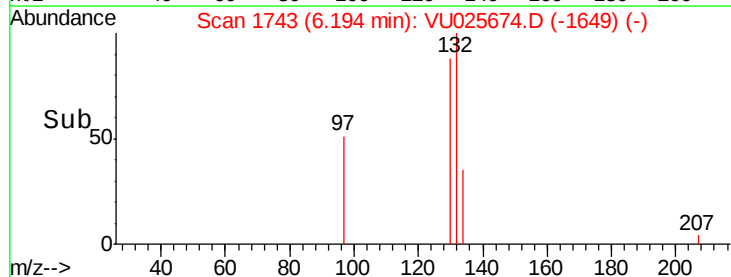
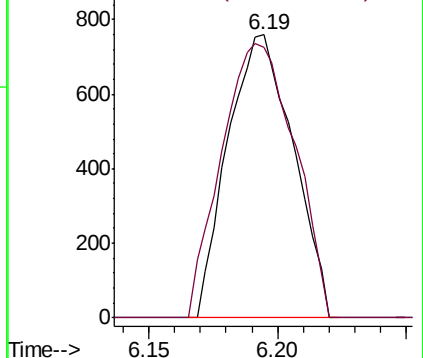
130 100

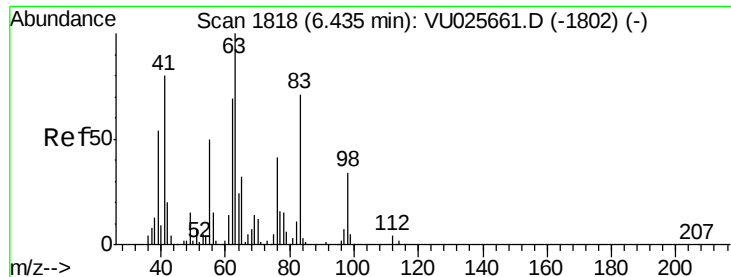
95 95.4 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): VU025661.D (-1727) (-)

Ion 94.90 (94.60 to 95.60): VU025661.D (-1727) (-)

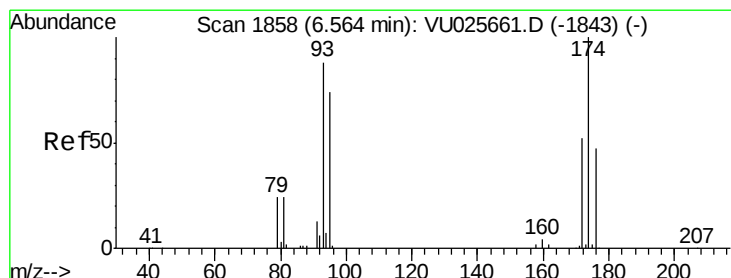
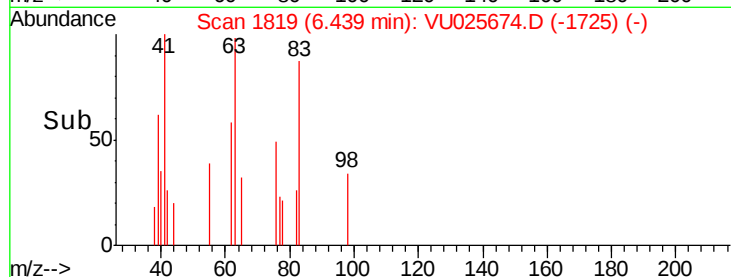
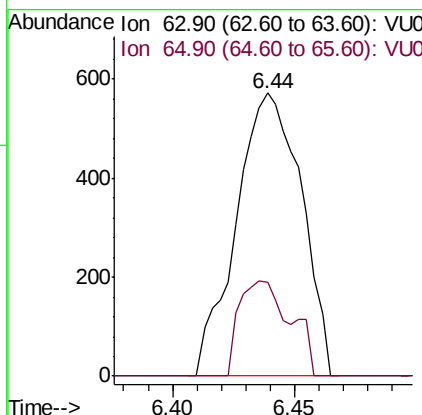
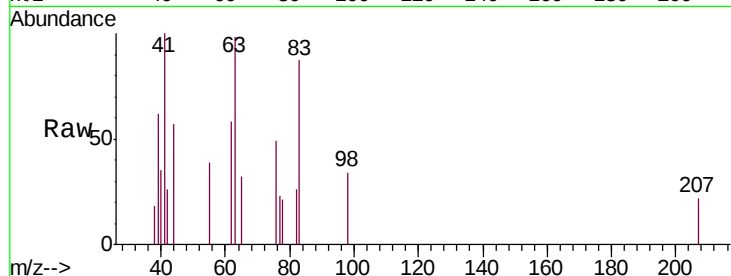




#45
 1,2-Dichloropropane
 Concen: 0.45 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

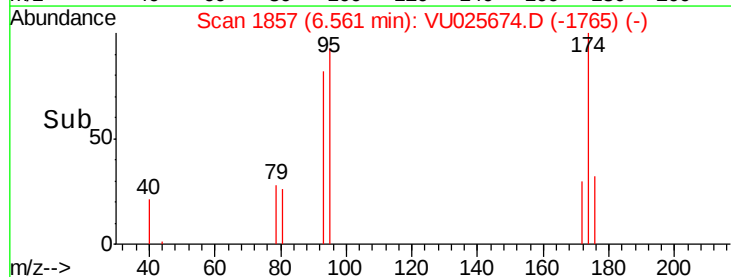
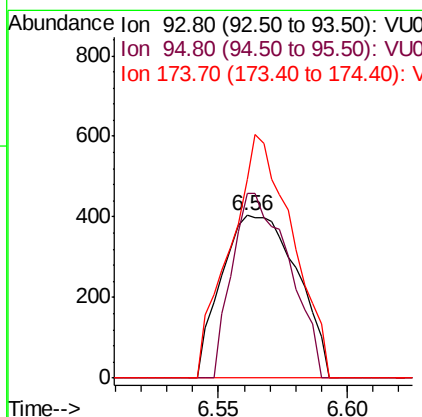
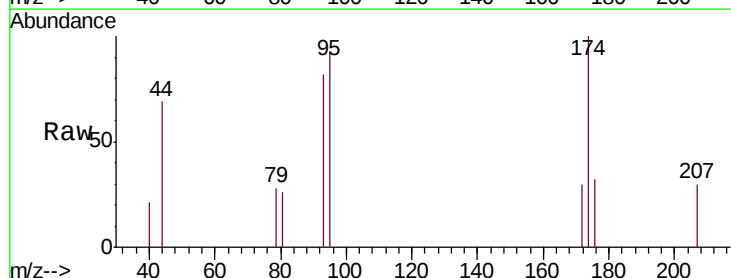
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

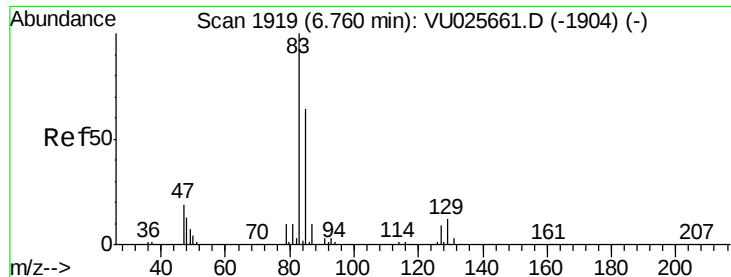
Tot Ion: 63 Resp: 1057
 Ion Ratio Lower Upper
 63 100
 65 33.2 26.1 39.1



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

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





#47

Bromodichloromethane

Concen: 0.44 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

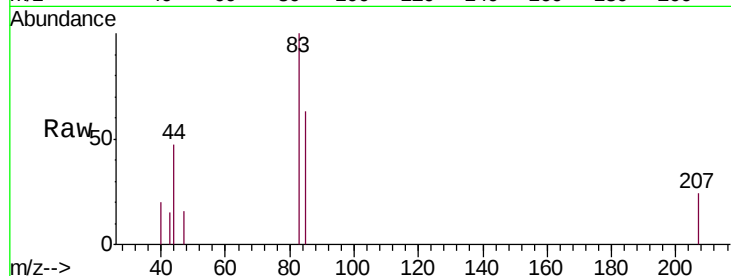
Tot Ion: 83 Resp: 1430

Ion Ratio Lower Upper

83 100

85 62.9 50.2 75.4

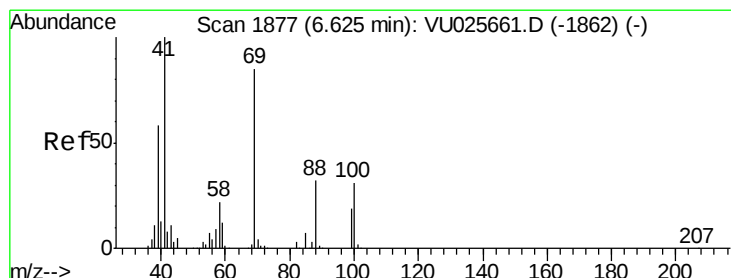
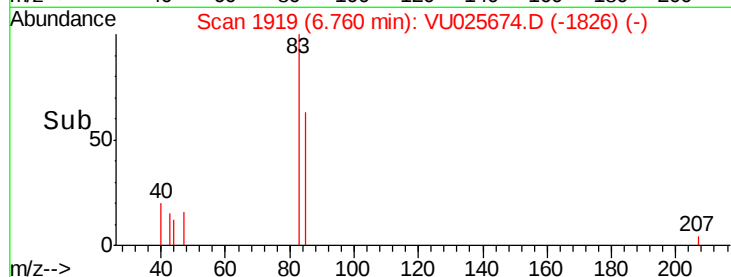
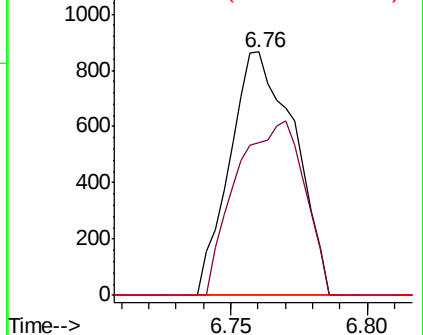
127 0.0 7.2 10.8#



Abundance Ion 82.90 (82.60 to 83.60): VU025674.D (-1826) (-)

Ion 84.90 (84.60 to 85.60): VU025674.D (-1826) (-)

Ion 126.80 (126.50 to 127.50): VU025674.D (-1826) (-)



#48

Methyl methacrylate

Concen: 0.46 ug/l

RT: 6.63 min Scan# 1879

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

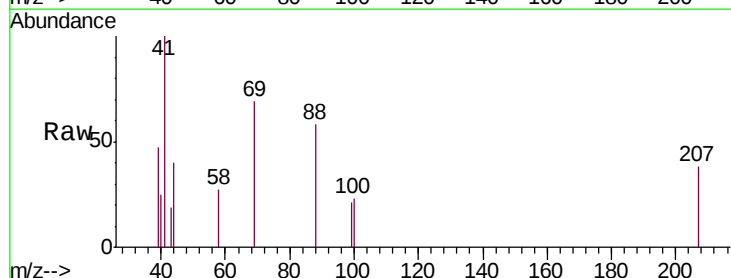
Tgt Ion: 41 Resp: 1198

Ion Ratio Lower Upper

41 100

69 79.5 65.0 97.4

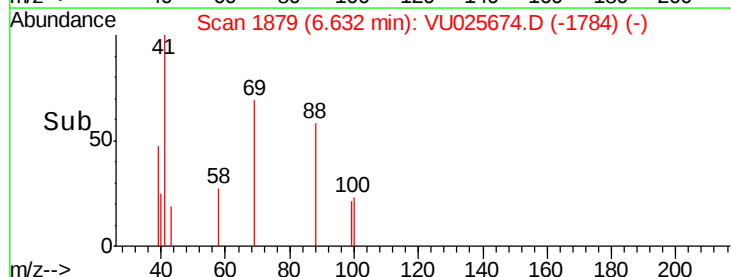
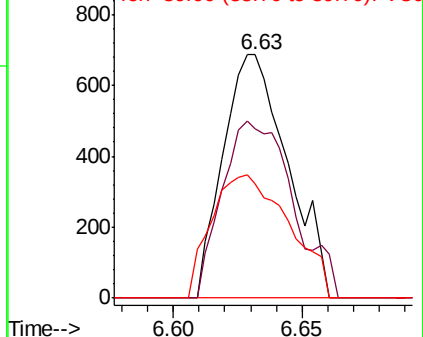
39 60.8 46.4 69.6

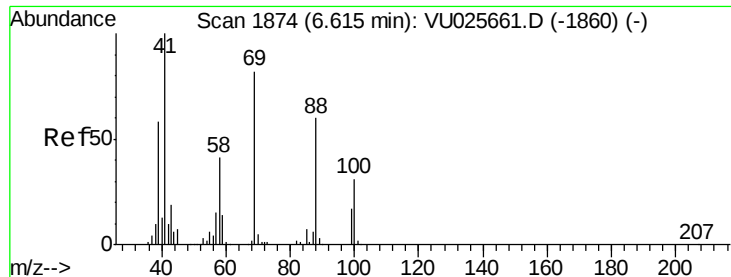


Abundance Ion 41.00 (40.70 to 41.70): VU025674.D (-1784) (-)

Ion 69.00 (68.70 to 69.70): VU025674.D (-1784) (-)

Ion 39.00 (38.70 to 39.70): VU025674.D (-1784) (-)





#49

1,4-Dioxane

Concen: 10.27 ug/l

RT: 6.63 min Scan# 1879

Delta R.T. 0.02 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

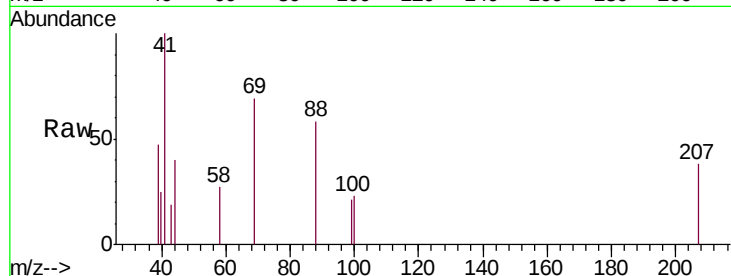
Tot Ion: 88 Resp: 645

Ion Ratio Lower Upper

88 100

43 22.6 27.3 40.9#

58 56.9 57.6 86.4#



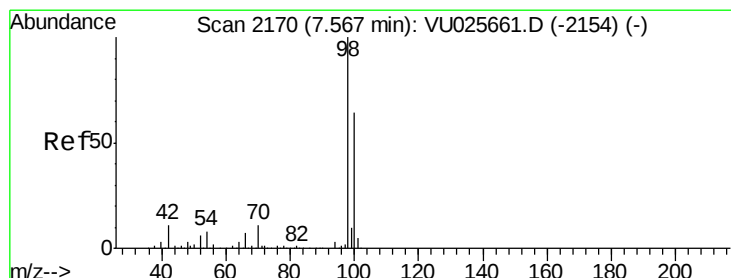
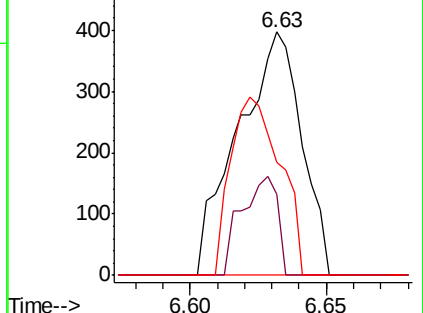
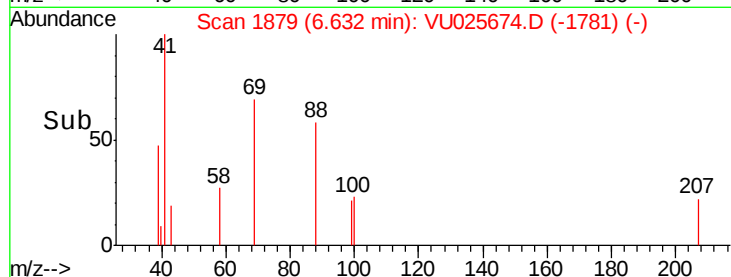
Abundance Ion 88.00 (87.70 to 88.70): VU025661.D (-1860) (-)

Ion 43.00 (42.70 to 43.70): VU025661.D (-1860) (-)

Ion 58.00 (57.70 to 58.70): VU025661.D (-1860) (-)

6.63

6.60 6.65



#50

Toluene-d8

Concen: 47.58 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025674.D

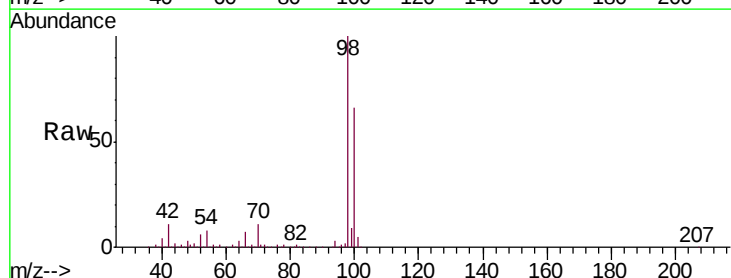
Acq: 27 Jul 2018 17:15

Tgt Ion: 98 Resp: 380746

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7

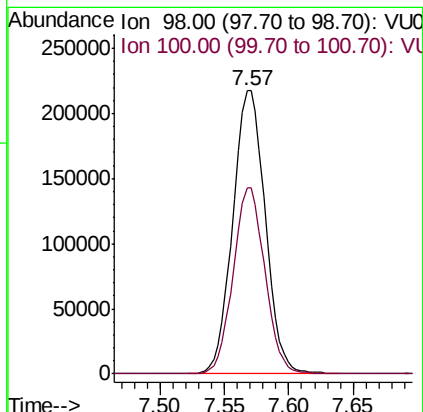
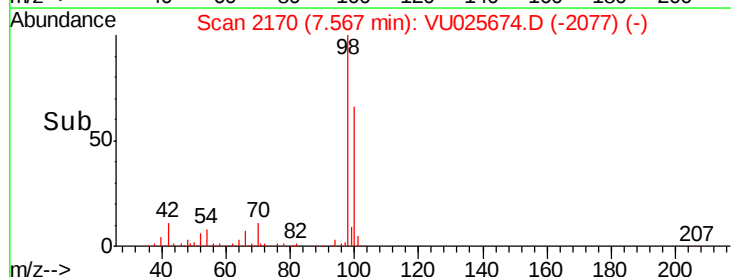


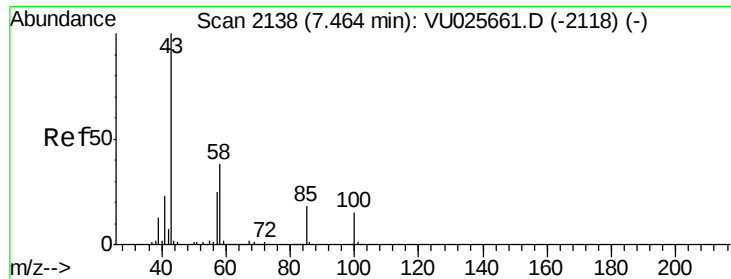
Abundance Ion 98.00 (97.70 to 98.70): VU025661.D (-2154) (-)

Ion 100.00 (99.70 to 100.70): VU025661.D (-2154) (-)

7.57

7.50 7.55 7.60 7.65





#51

4-Methyl-2-Pentanone

Concen: 2.54 ug/l

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

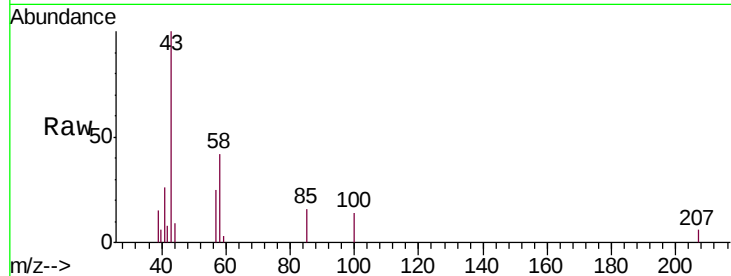
MDL-WATER-03-QT3-2018

Tot Ion: 43 Resp: 8367

Ion Ratio Lower Upper

43 100

58 36.4 31.0 46.4

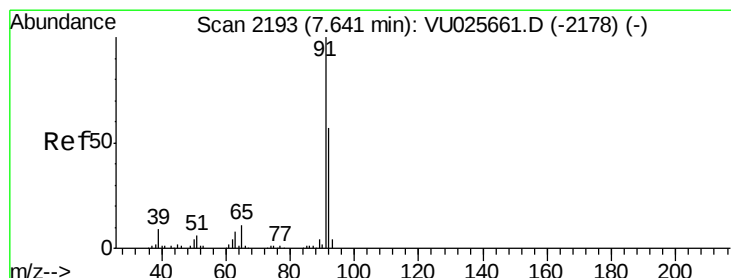
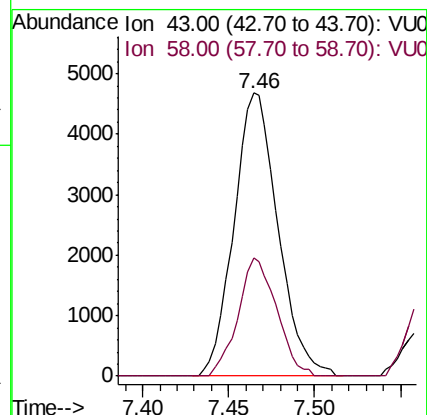
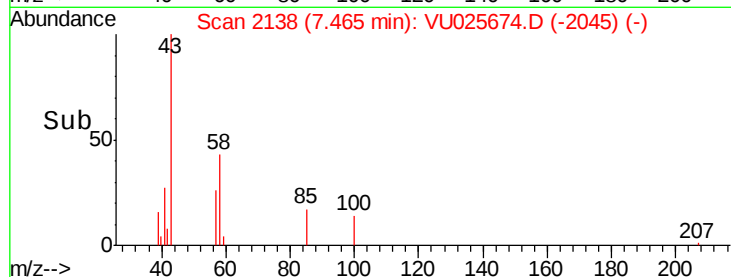


Abundance Ion 43.00 (42.70 to 43.70): VU025661.D (-2118) (-)

Ion 58.00 (57.70 to 58.70): VU025661.D (-2118) (-)

7.46

Time-->



#52

Toluene

Concen: 0.55 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU025674.D

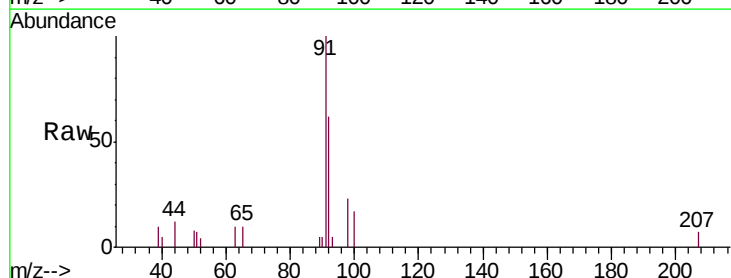
Acq: 27 Jul 2018 17:15

Tgt Ion: 92 Resp: 3079

Ion Ratio Lower Upper

92 100

91 165.8 139.2 208.8

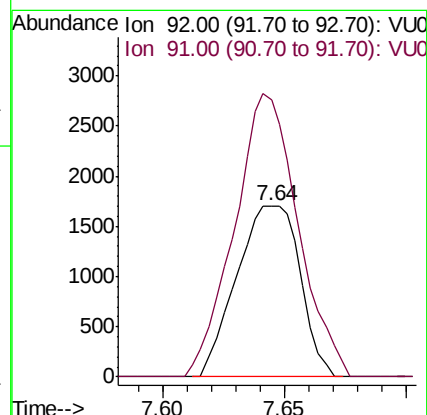
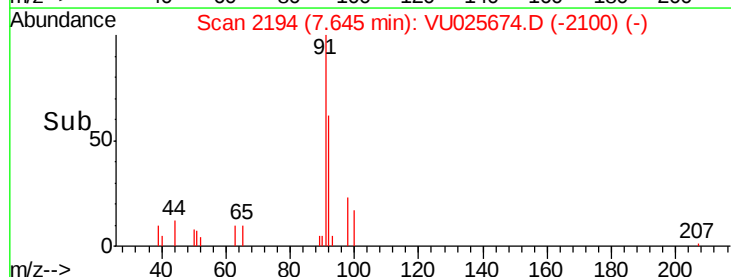


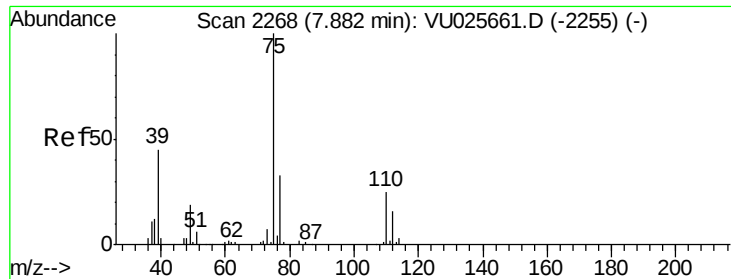
Abundance Ion 92.00 (91.70 to 92.70): VU025661.D (-2178) (-)

Ion 91.00 (90.70 to 91.70): VU025661.D (-2178) (-)

7.64

Time-->

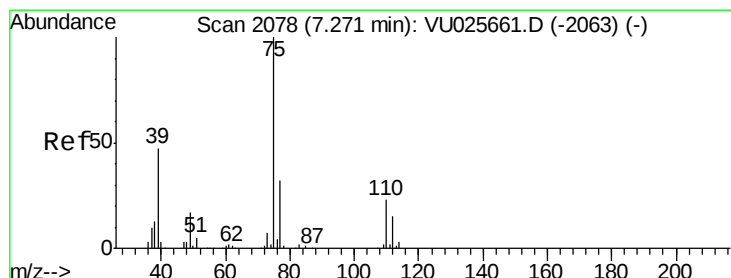
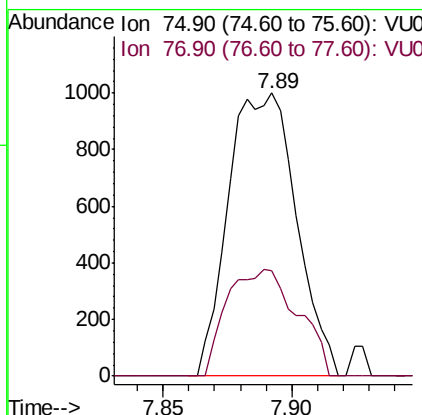
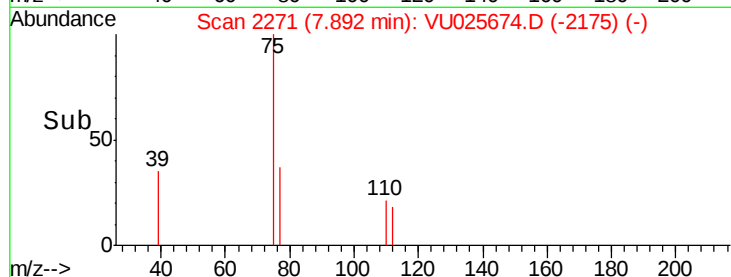
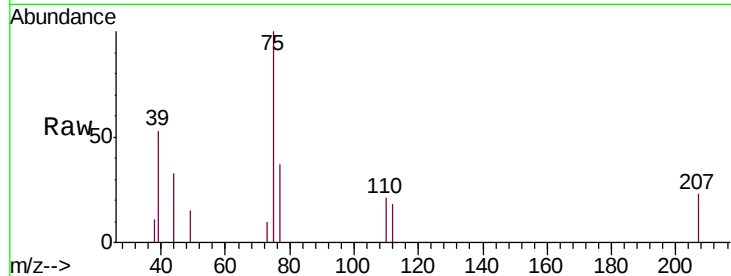




#53
t-1,3-Dichloropropene
Concen: 0.50 ug/l
RT: 7.89 min Scan# 2271
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

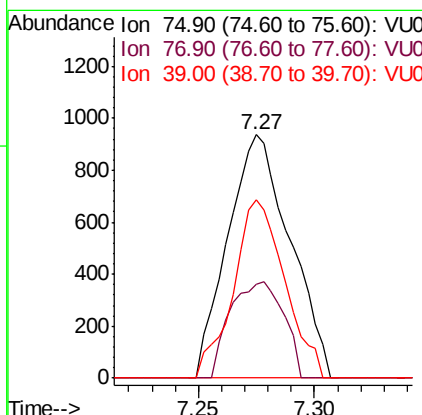
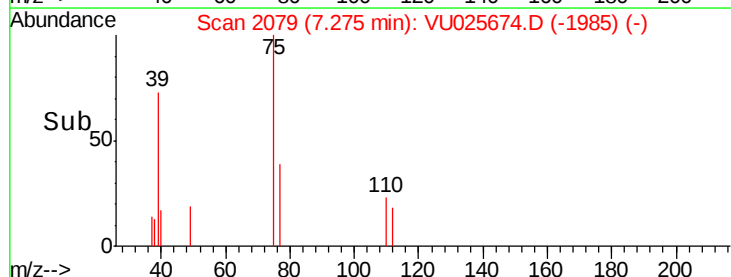
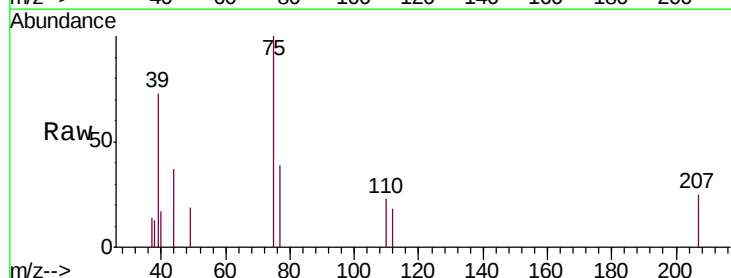
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

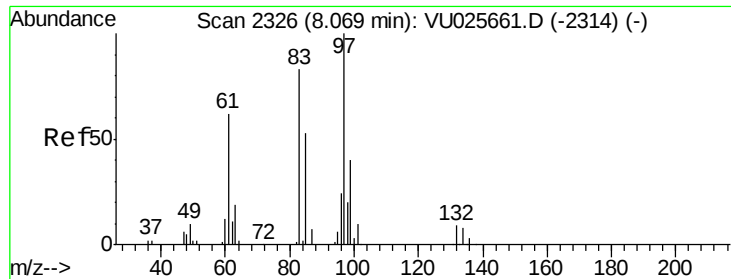
Tot Ion: 75 Resp: 1830
Ion Ratio Lower Upper
75 100
77 37.4 24.5 36.7#



#54
cis-1,3-Dichloropropene
Concen: 0.47 ug/l
RT: 7.27 min Scan# 2079
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 75 Resp: 1746
Ion Ratio Lower Upper
75 100
77 38.5 25.6 38.4#
39 73.3 40.0 60.0#

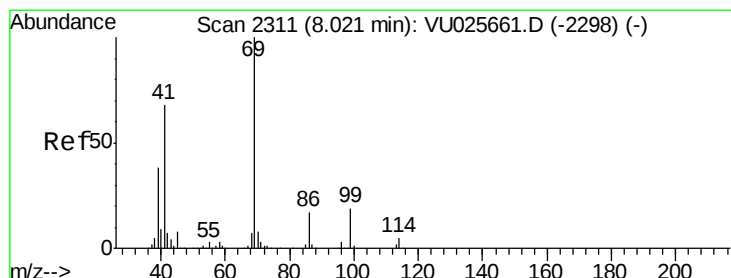
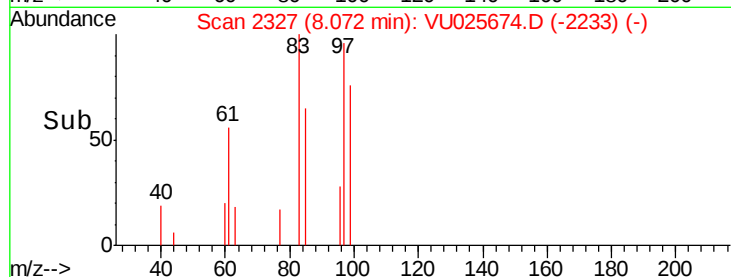
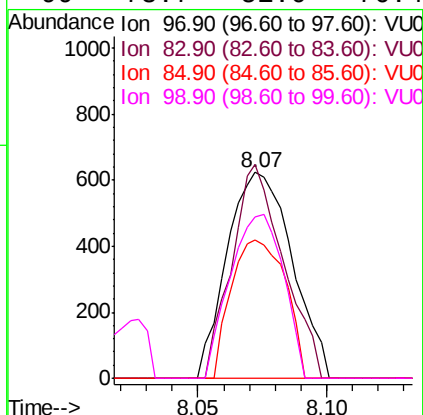
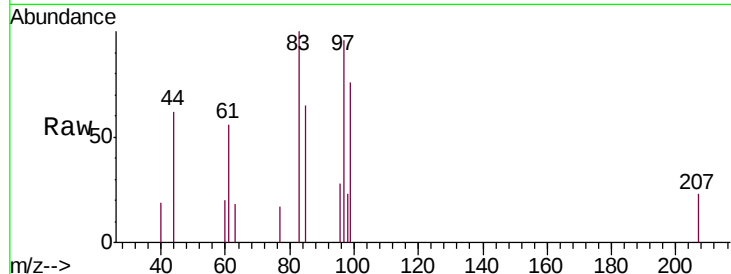




#55
 1,1,2-Trichloroethane
 Concen: 0.47 ug/l
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

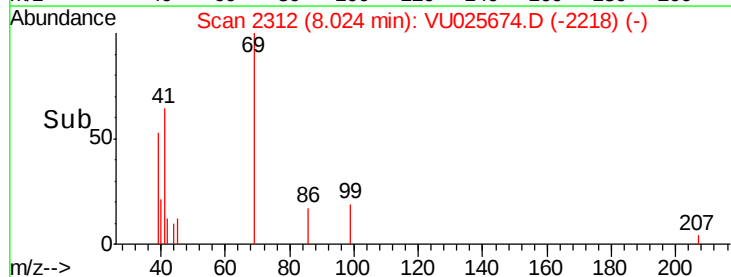
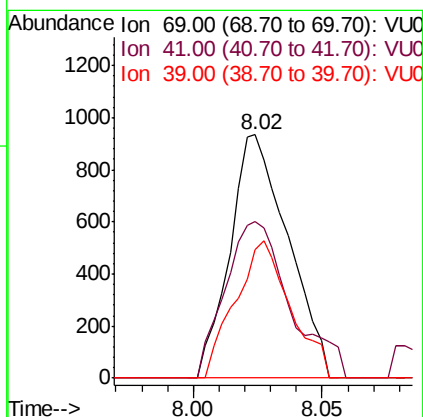
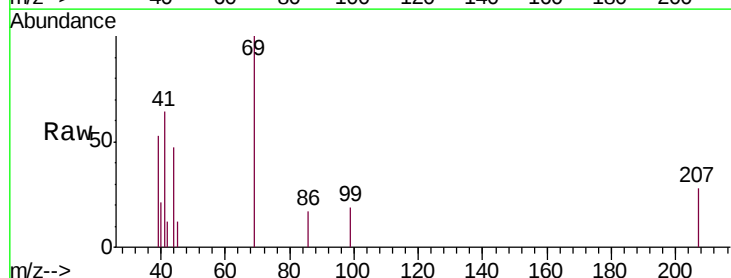
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

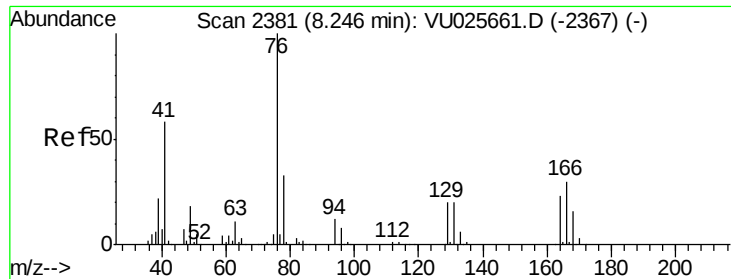
Tot Ion: 97 Resp: 1092
 Ion Ratio Lower Upper
 97 100
 83 103.9 68.9 103.3#
 85 67.4 44.4 66.6#
 99 78.7 51.0 76.4#



#56
 Ethyl methacrylate
 Concen: 0.44 ug/l
 RT: 8.02 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion: 69 Resp: 1469
 Ion Ratio Lower Upper
 69 100
 41 72.0 54.8 82.2
 39 53.4 31.1 46.7#

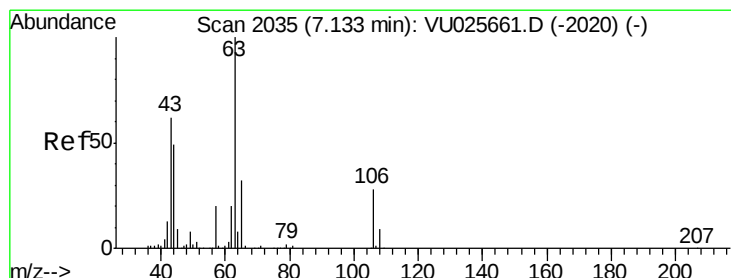
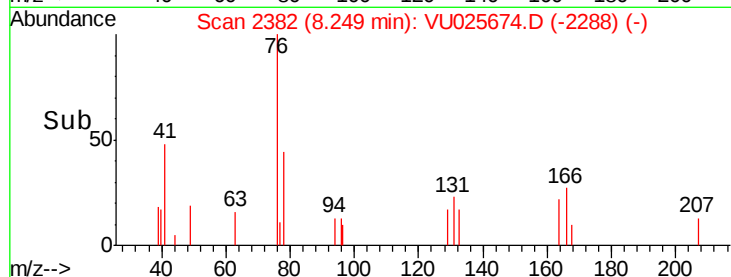
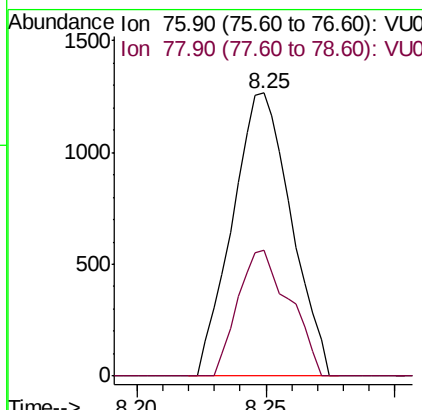
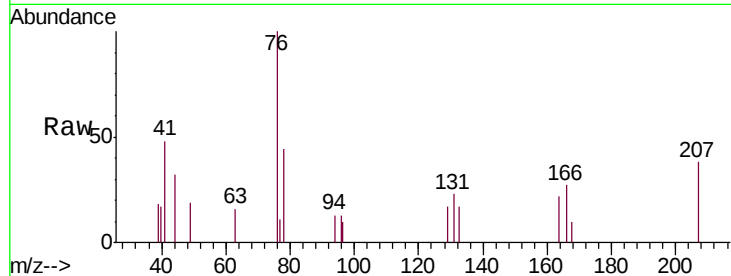




#57
 1,3-Dichloropropane
 Concen: 0.52 ug/l
 RT: 8.25 min Scan# 2382
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

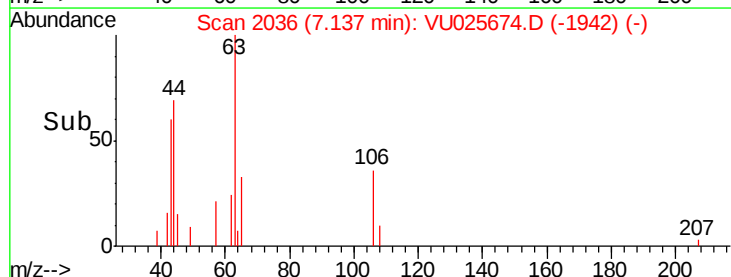
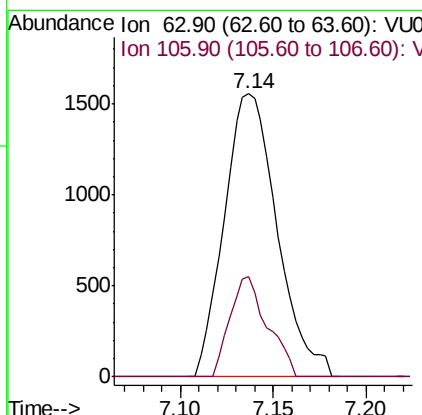
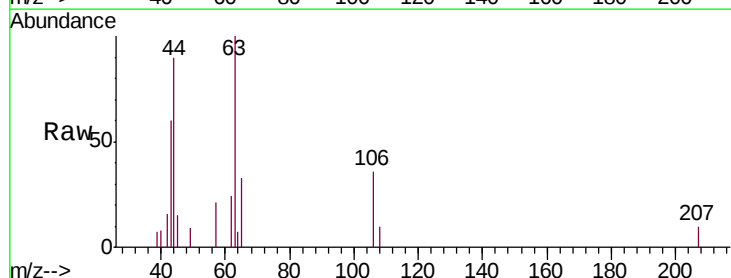
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

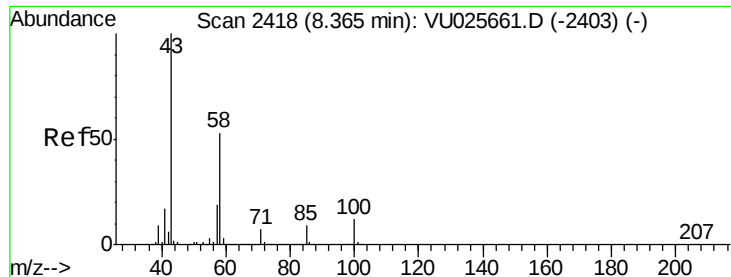
Tot Ion: 76 Resp: 2009
 Ion Ratio Lower Upper
 76 100
 78 39.2 26.1 39.1#



#58
 2-Chloroethyl Vinyl ether
 Concen: 9.07 ug/l
 RT: 7.14 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion: 63 Resp: 3084
 Ion Ratio Lower Upper
 63 100
 106 25.1 22.3 33.5

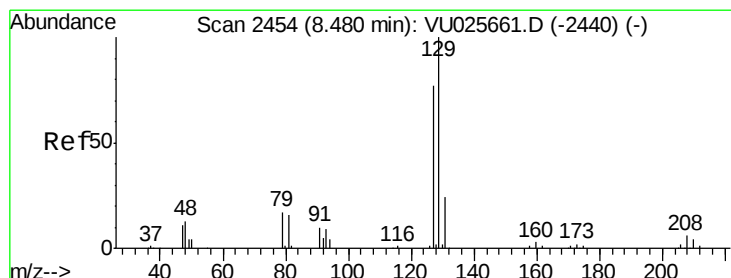
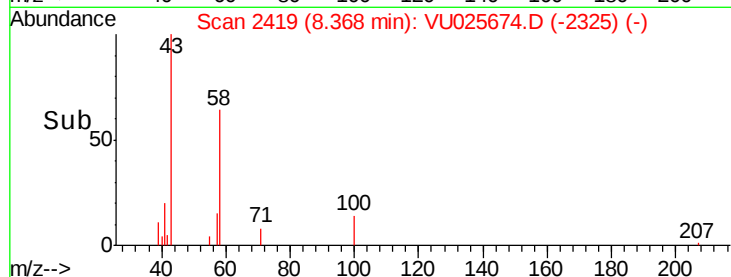
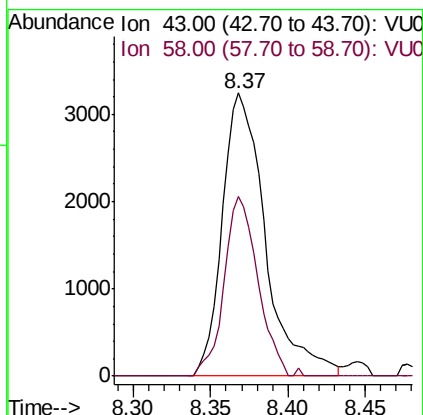
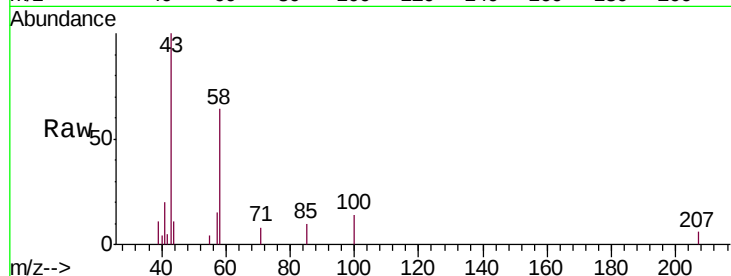




#59
2-Hexanone
Concen: 2.43 ug/l
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

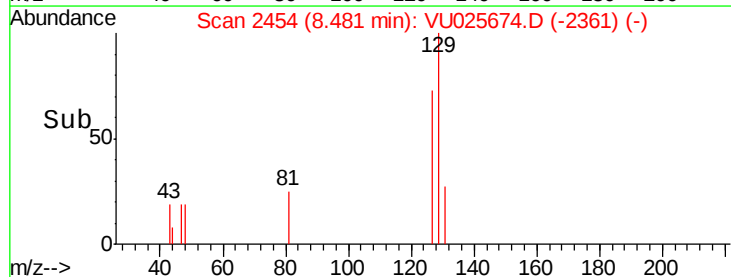
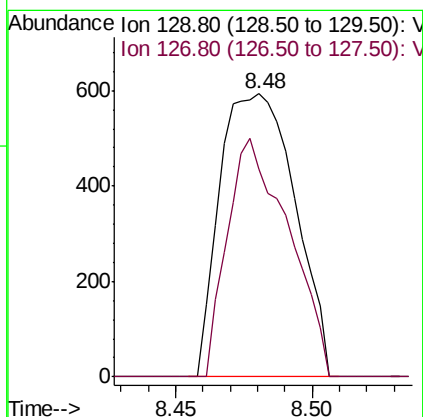
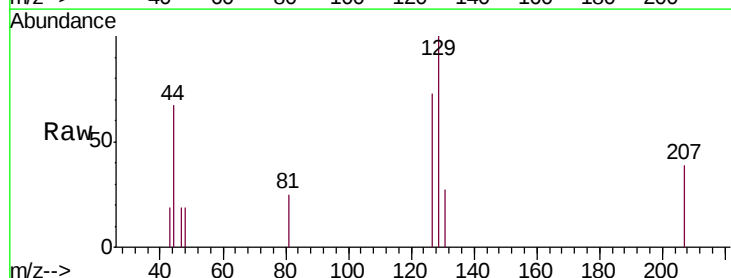
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

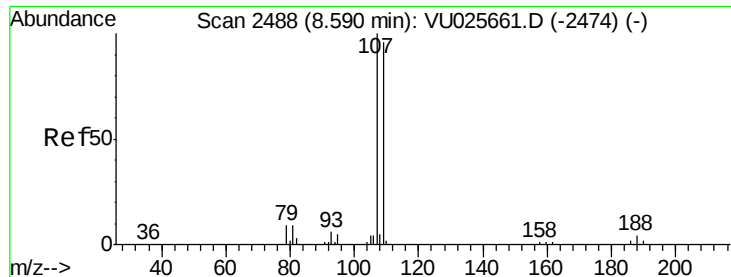
Tot Ion: 43 Resp: 6281
Ion Ratio Lower Upper
43 100
58 49.3 26.2 78.5



#60
Dibromochloromethane
Concen: 0.42 ug/l
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 129 Resp: 1135
Ion Ratio Lower Upper
129 100
127 69.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 0.50 ug/l

RT: 8.60 min Scan# 2490

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

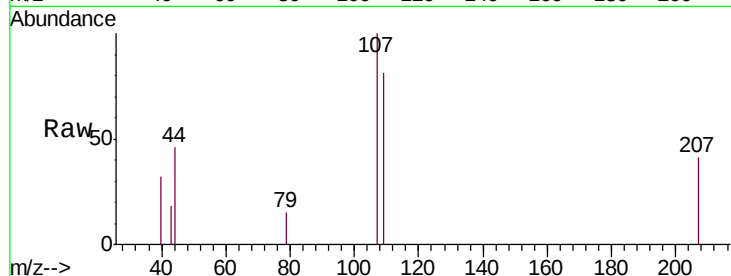
MDL-WATER-03-QT3-2018

Tot Ion:107 Resp: 1299

Ion Ratio Lower Upper

107 100

109 86.6 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.60

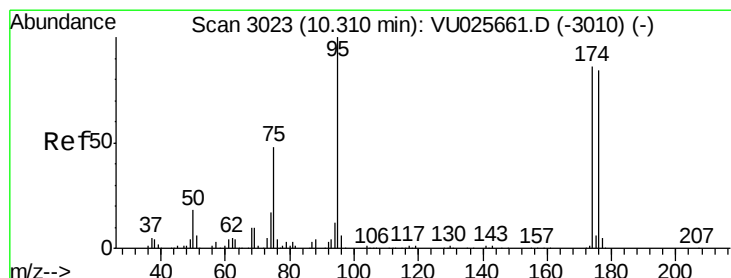
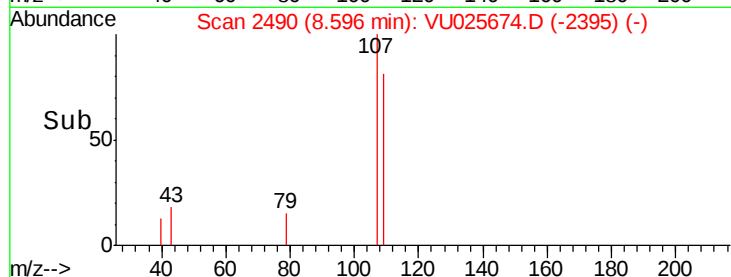
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.03 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

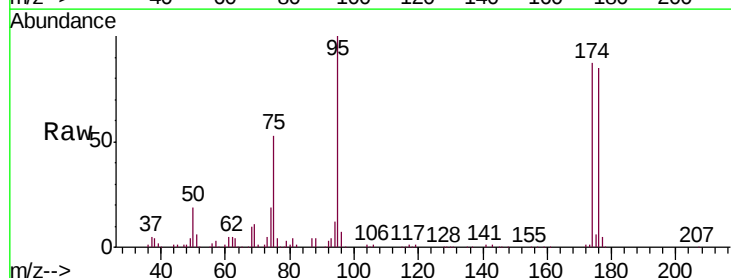
Tgt Ion: 95 Resp: 139853

Ion Ratio Lower Upper

95 100

174 88.5 0.0 172.2

176 84.2 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

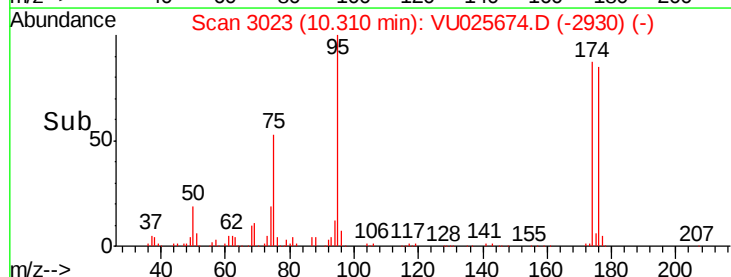
60000

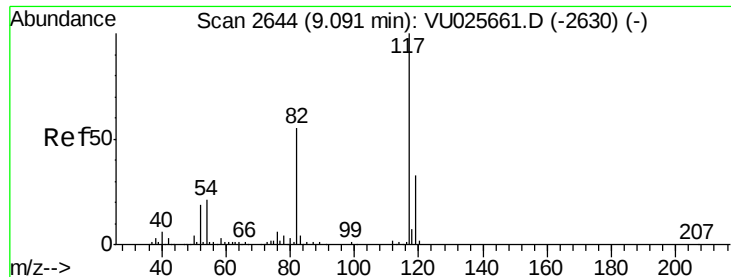
40000

20000

0

Time-->

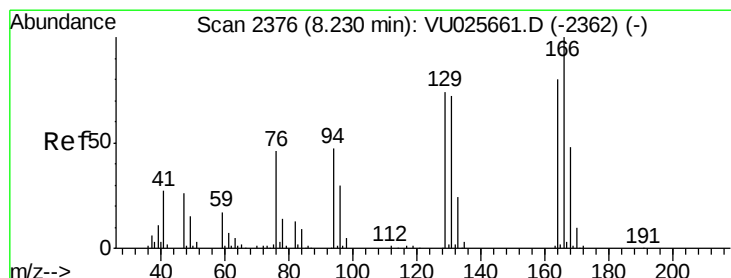
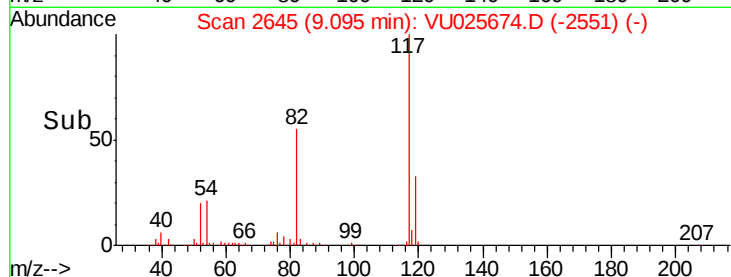
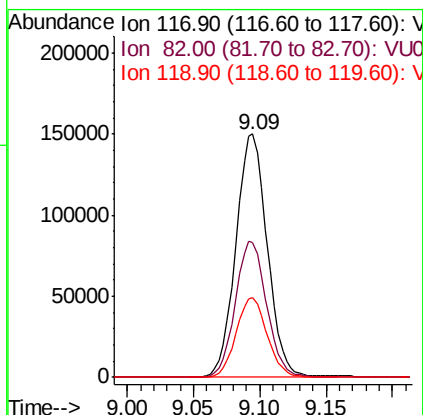
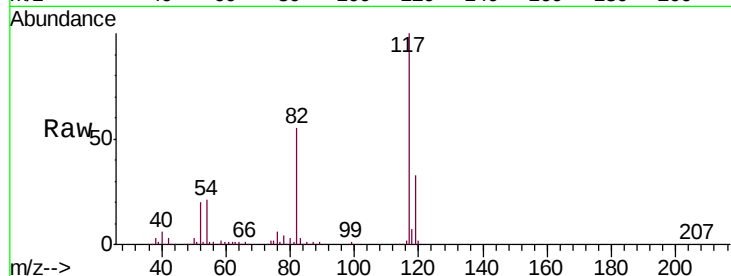




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

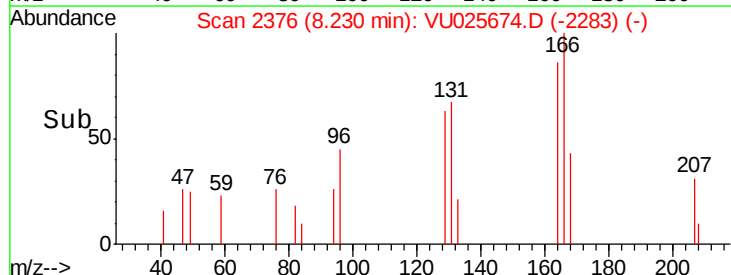
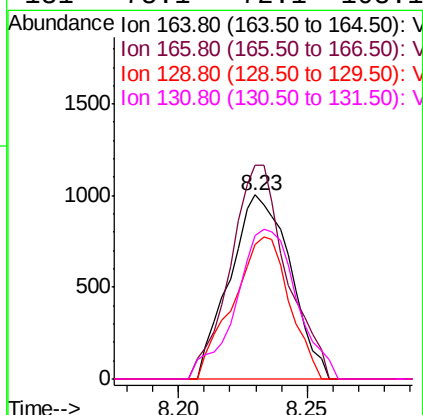
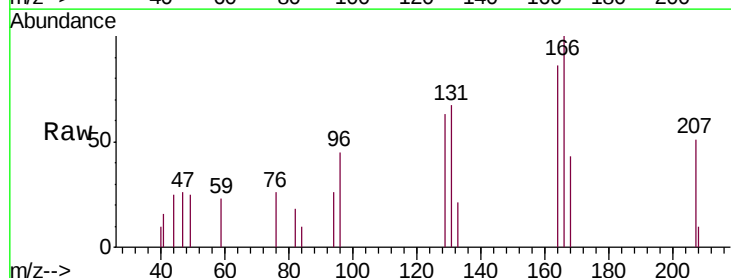
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

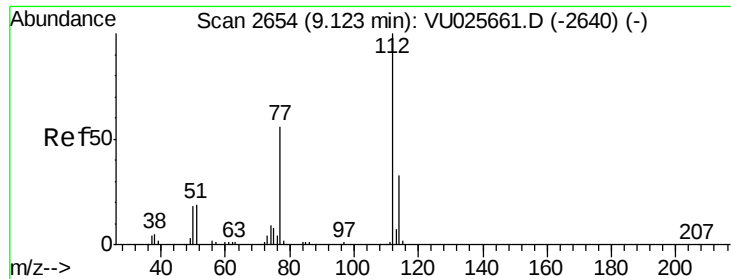
Tot Ion:117 Resp: 247903
Ion Ratio Lower Upper
117 100
82 55.5 46.0 69.0
119 32.6 26.0 39.0



#64
Tetrachloroethene
Concen: 0.75 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion:164 Resp: 1635
Ion Ratio Lower Upper
164 100
166 116.0 101.1 151.7
129 72.8 73.0 109.6#
131 78.1 72.1 108.1





#65

Chlorobenzene

Concen: 0.54 ug/l

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

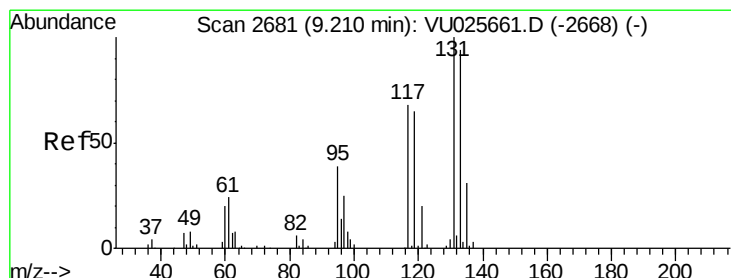
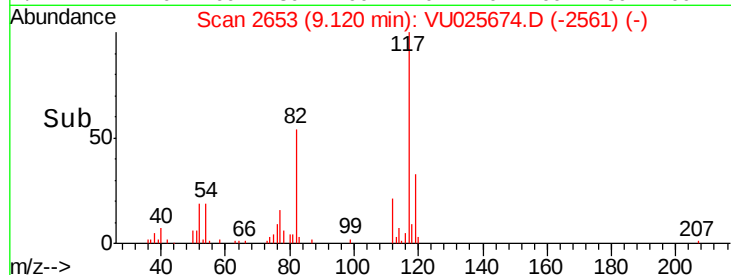
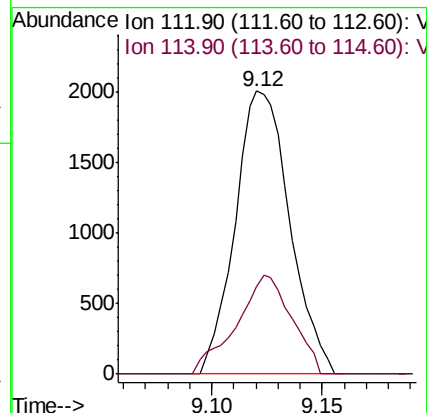
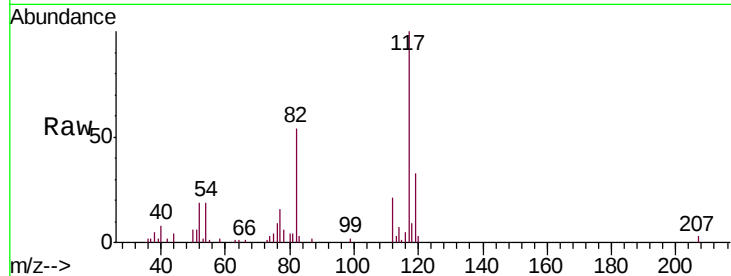
MDL-WATER-03-QT3-2018

Tot Ion:112 Resp: 3434

Ion Ratio Lower Upper

112 100

114 31.0 25.8 38.8



#66

1,1,1,2-Tetrachloroethane

Concen: 0.54 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

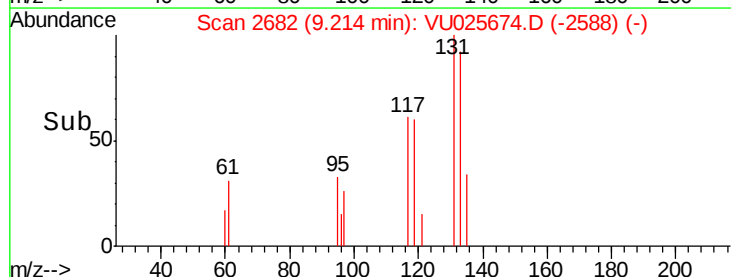
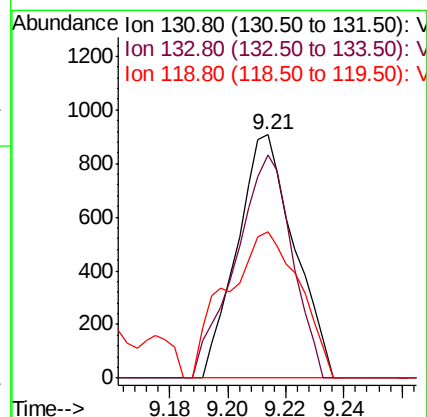
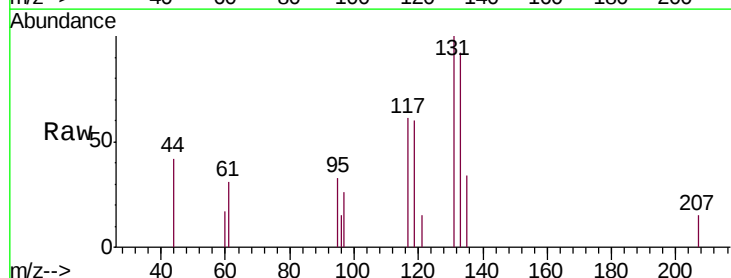
Tgt Ion:131 Resp: 1242

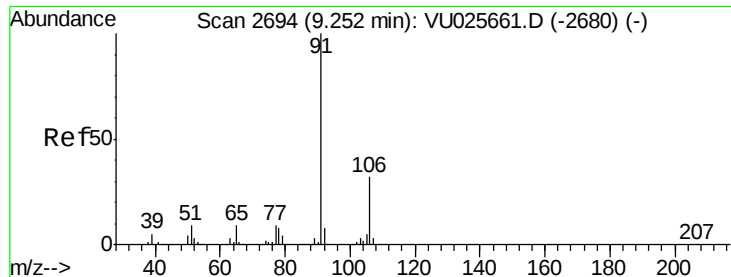
Ion Ratio Lower Upper

131 100

133 90.7 47.8 143.3

119 0.0 31.6 95.0#

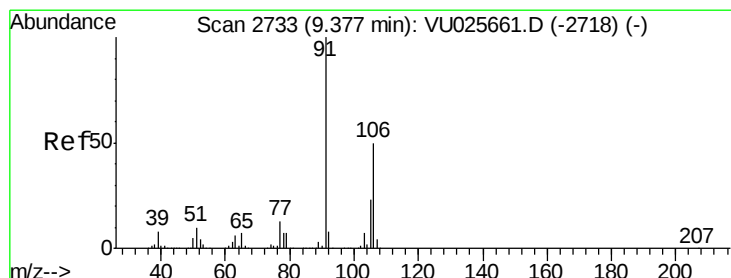
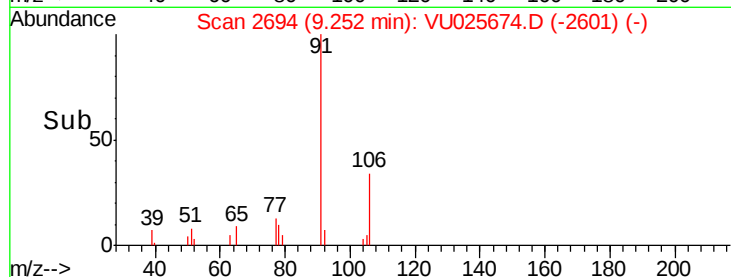
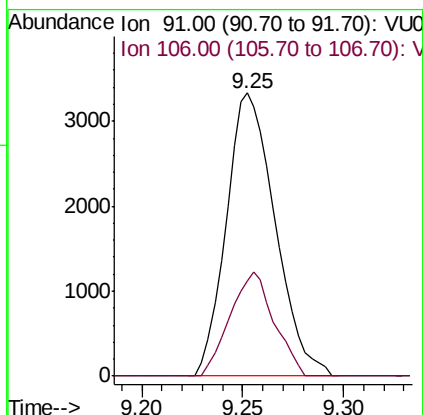
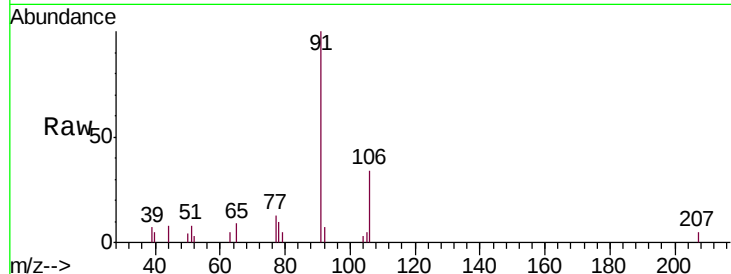




#67
Ethyl Benzene
Concen: 0.53 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

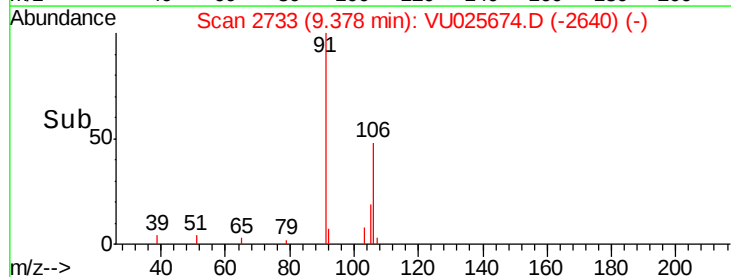
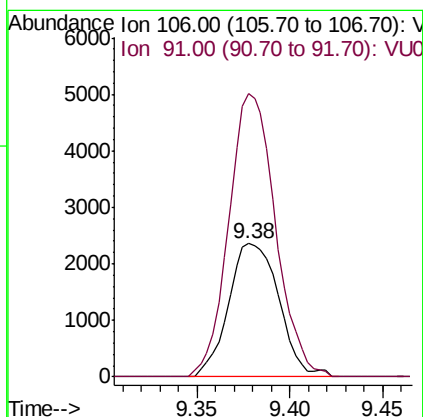
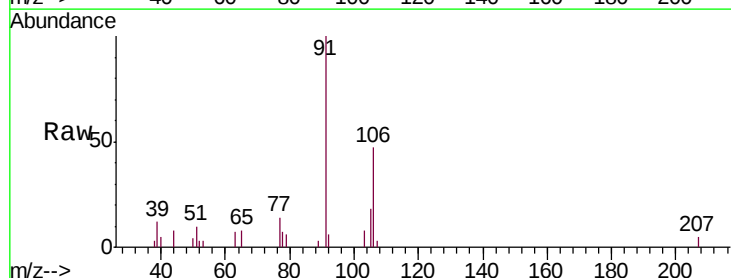
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 5631
Ion Ratio Lower Upper
91 100
106 33.8 25.3 37.9



#68
m/p-Xylenes
Concen: 1.10 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 106 Resp: 4468
Ion Ratio Lower Upper
106 100
91 196.6 162.3 243.5

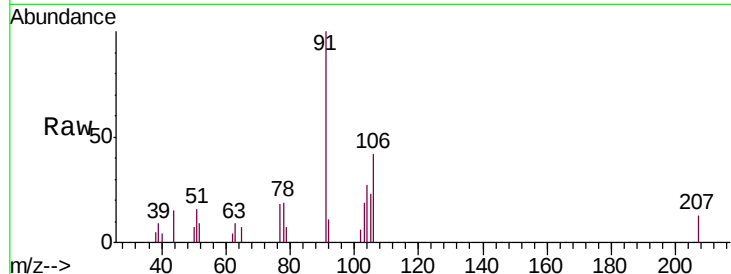




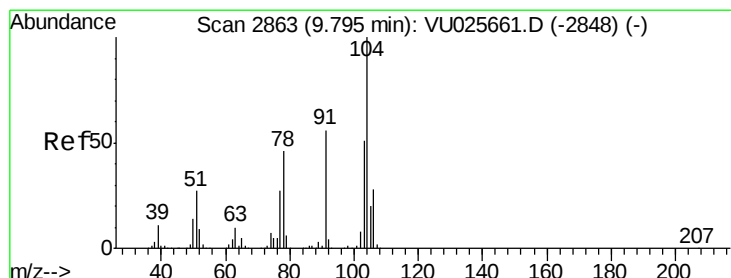
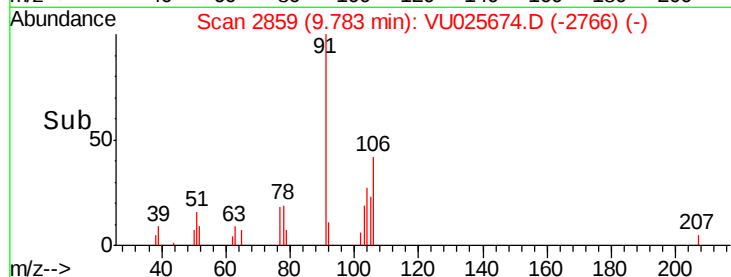
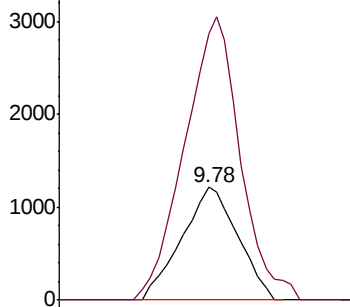
#69
o-Xylene
Concen: 0.47 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion:106 Resp: 1854
Ion Ratio Lower Upper
106 100
91 247.8 105.3 315.8

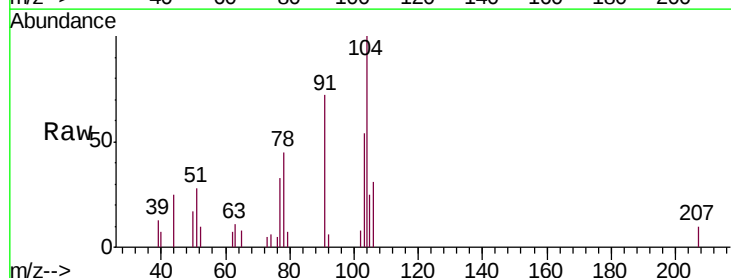


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

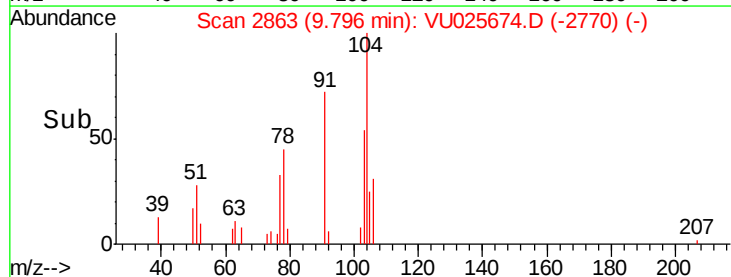
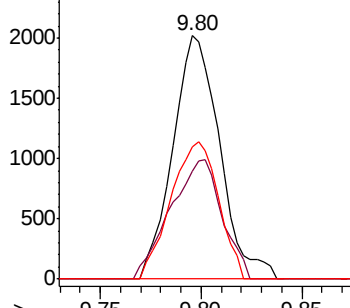


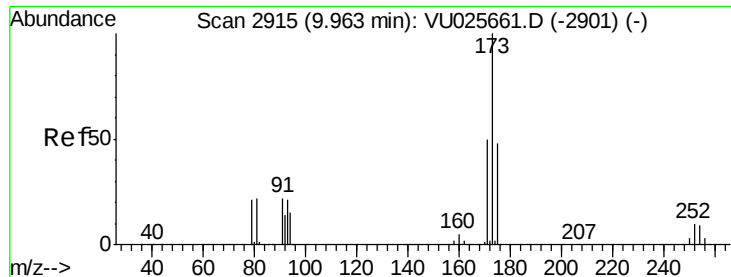
#70
Styrene
Concen: 0.51 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion:104 Resp: 3287
Ion Ratio Lower Upper
104 100
78 53.8 41.6 62.4
103 57.2 44.6 66.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.37 ug/l

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

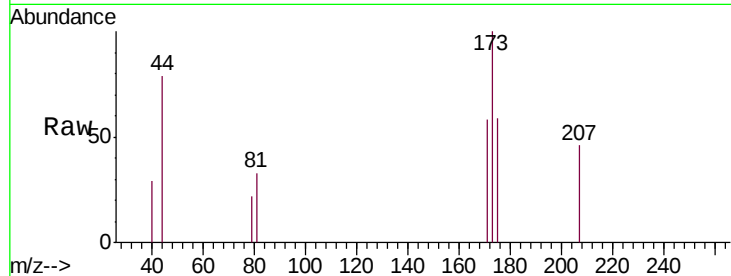
Tot Ion:173 Resp: 743

Ion Ratio Lower Upper

173 100

175 52.8 24.0 72.0

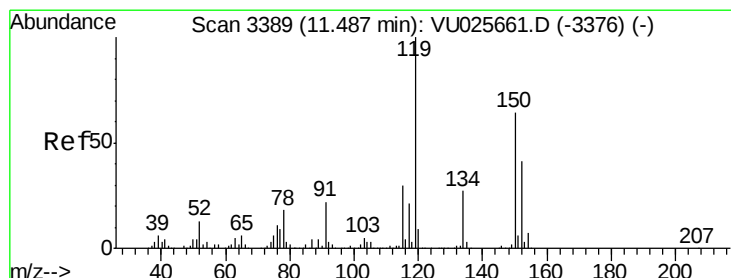
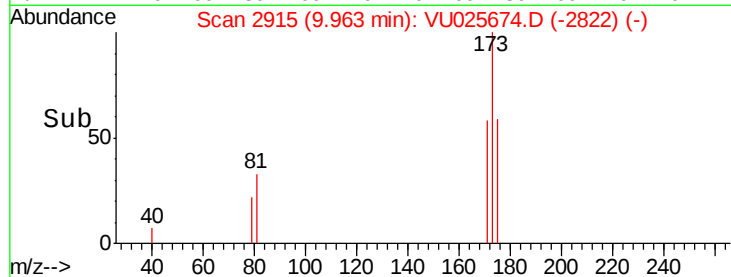
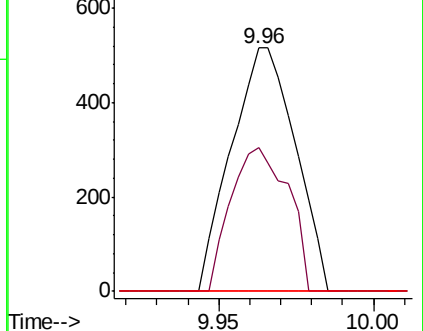
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

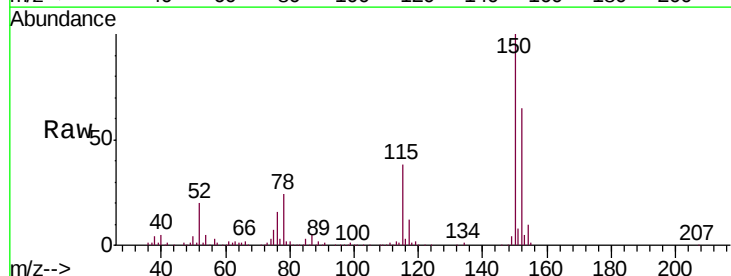
Tgt Ion:152 Resp: 148426

Ion Ratio Lower Upper

152 100

115 57.6 40.1 120.3

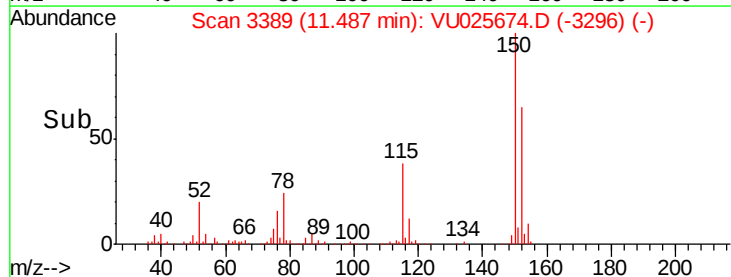
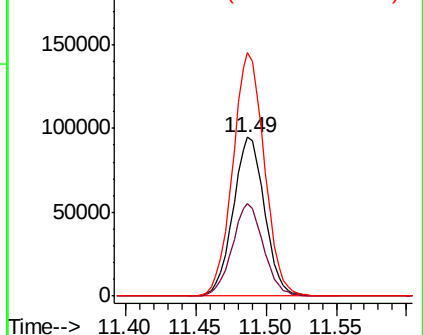
150 154.0 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.53 ug/l

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

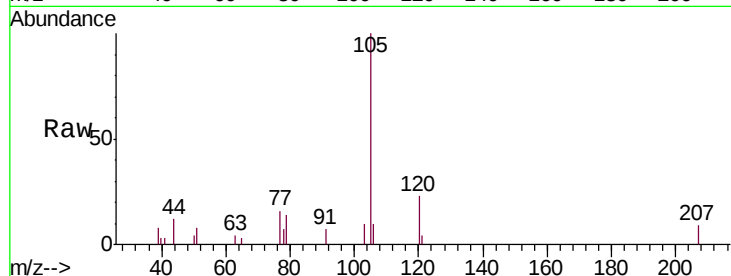
MDL-WATER-03-QT3-2018

Tot Ion: 105 Resp: 5408

Ion Ratio Lower Upper

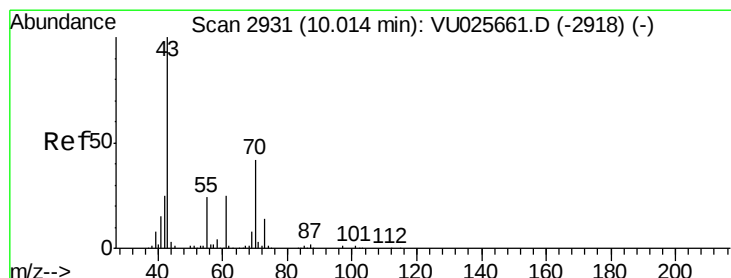
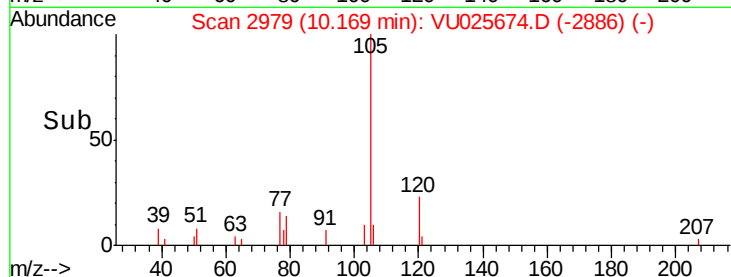
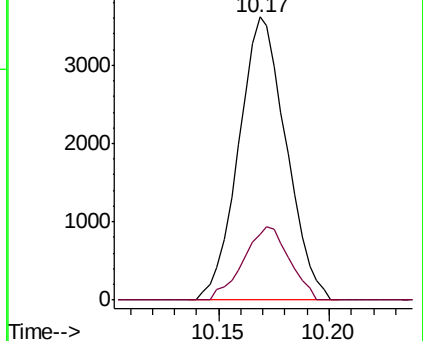
105 100

120 25.1 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.55 ug/l

RT: 10.02 min Scan# 2933

Delta R.T. 0.01 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Tgt Ion: 43 Resp: 2262

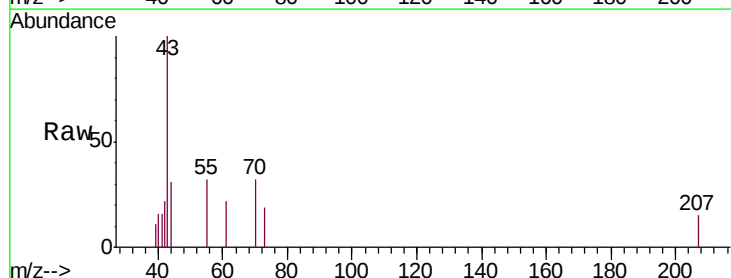
Ion Ratio Lower Upper

43 100

70 19.5 33.4 50.2#

55 22.5 19.0 28.6

61 18.6 19.3 28.9#

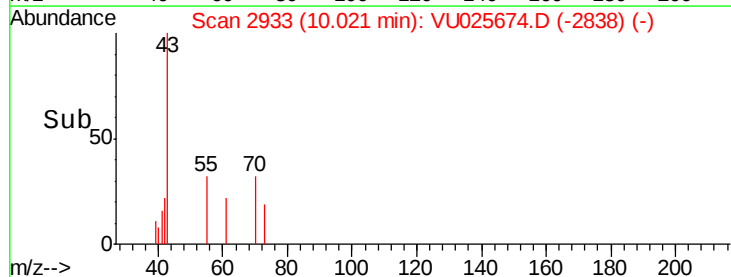
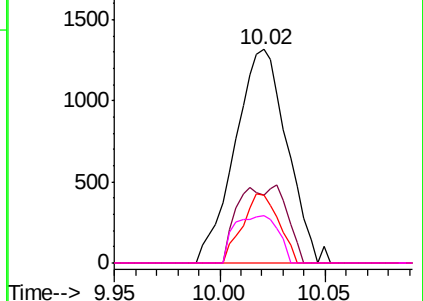


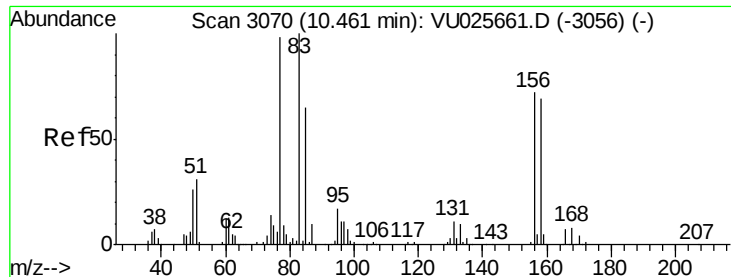
Abundance Ion 43.00 (42.70 to 43.70): VU0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 0.47 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

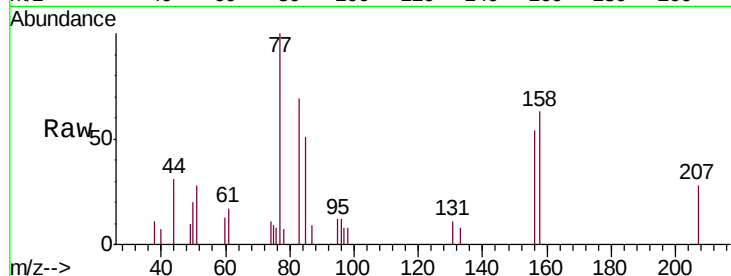
Tot Ion: 83 Resp: 1646

Ion Ratio Lower Upper

83 100

131 9.9 5.5 16.4

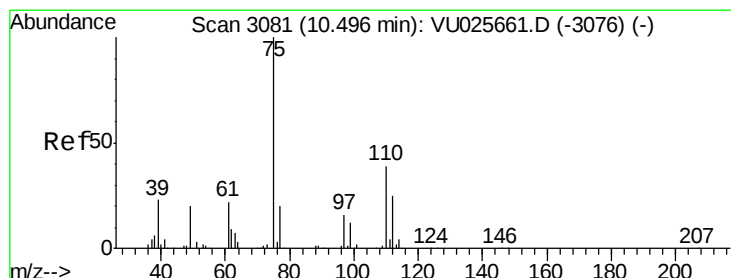
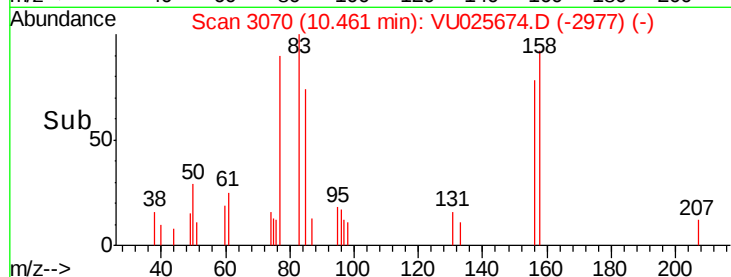
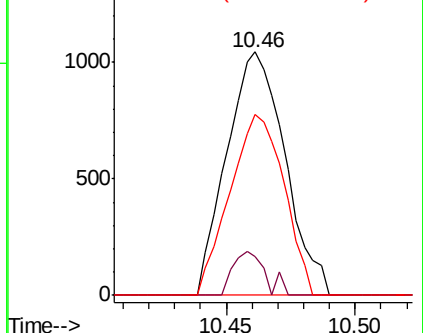
85 69.1 31.6 94.8



Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 130.80 (130.50 to 131.50): VU0

Ion 84.90 (84.60 to 85.60): VU0



#76

1,2,3-Trichloropropane

Concen: 22.27 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025674.D

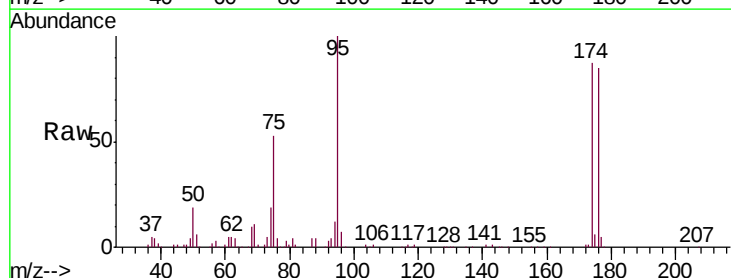
Acq: 27 Jul 2018 17:15

Tgt Ion: 75 Resp: 72829

Ion Ratio Lower Upper

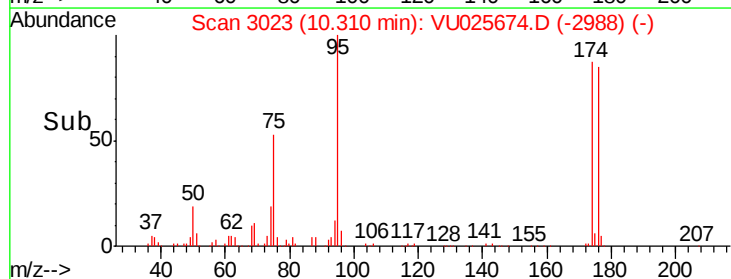
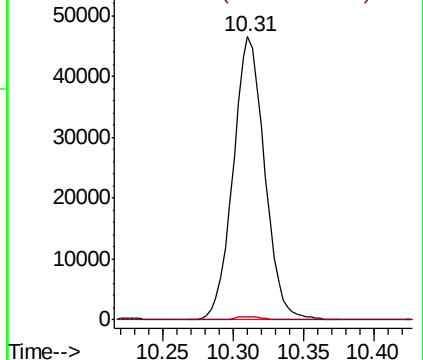
75 100

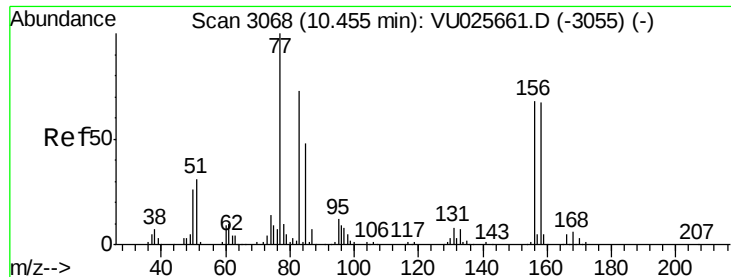
77 0.9 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#77

Bromobenzene

Concen: 0.50 ug/l

RT: 10.46 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

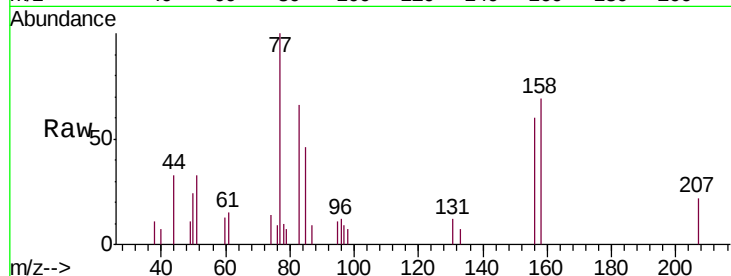
Tot Ion:156 Resp: 1393

Ion Ratio Lower Upper

156 100

77 184.8 73.8 221.4

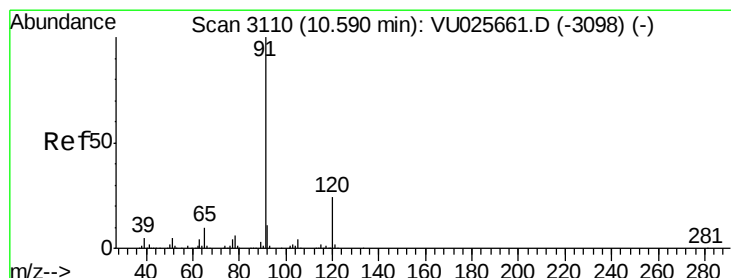
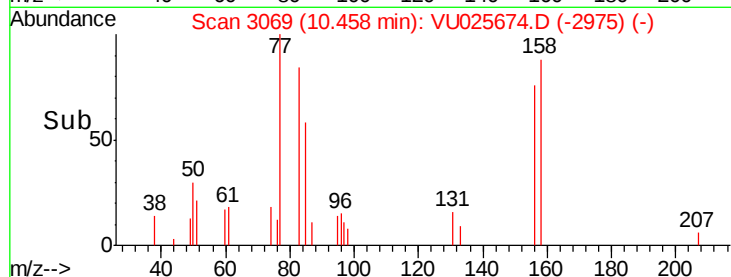
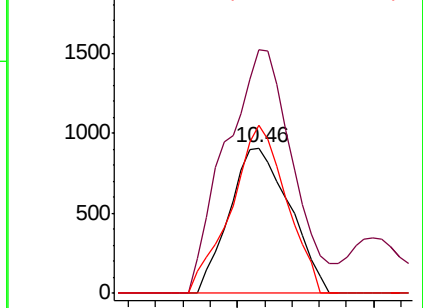
158 105.7 48.0 144.0



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: 0.61 ug/l

RT: 10.59 min Scan# 3110

Delta R.T. 0.00 min

Lab File: VU025674.D

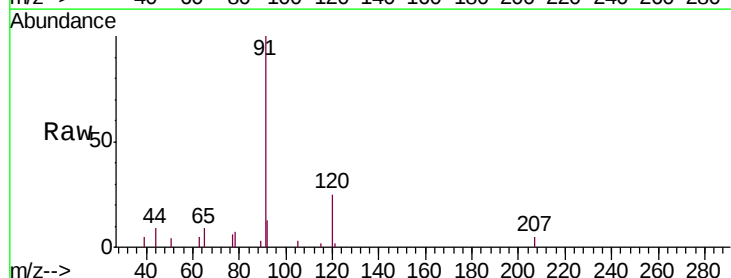
Acq: 27 Jul 2018 17:15

Tgt Ion: 91 Resp: 7154

Ion Ratio Lower Upper

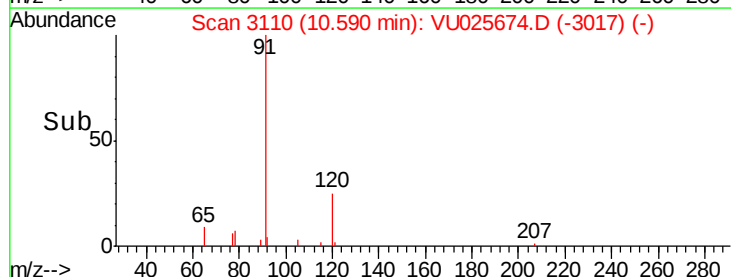
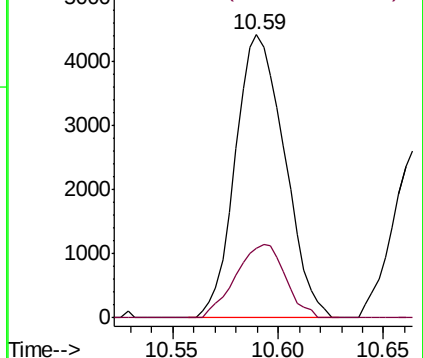
91 100

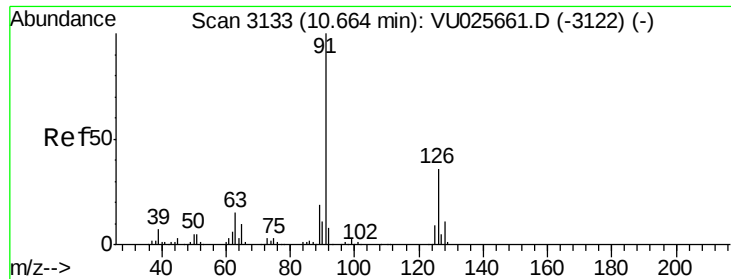
120 26.2 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.58 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

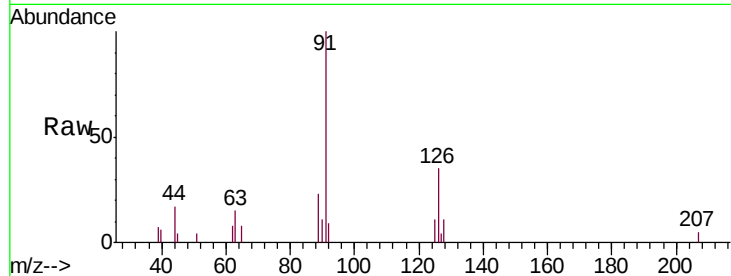
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 3983

Ion Ratio Lower Upper

91 100

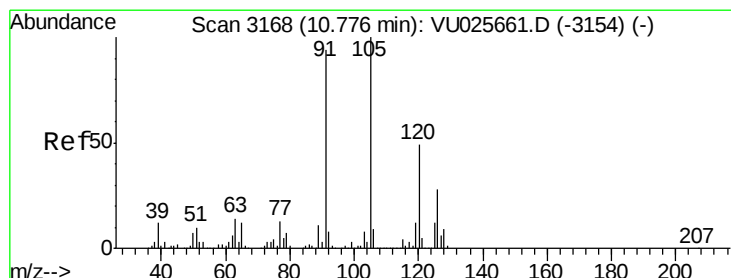
126 33.2 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VU025661.D (-3122) (-)

Ion 125.90 (125.60 to 126.60): VU025661.D (-3122) (-)

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.53 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025674.D

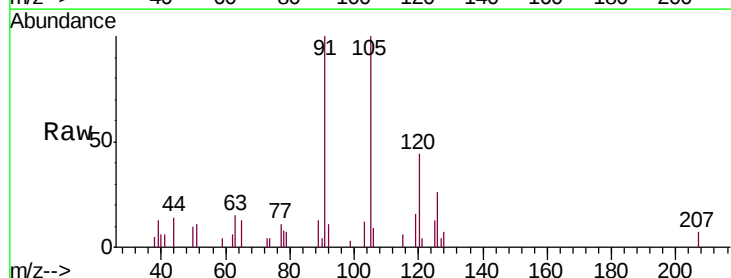
Acq: 27 Jul 2018 17:15

Tgt Ion: 105 Resp: 4549

Ion Ratio Lower Upper

105 100

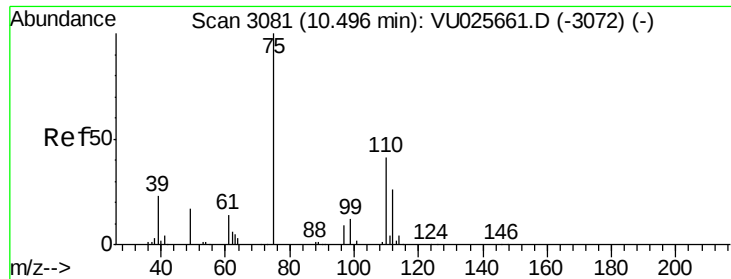
120 47.2 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VU025661.D (-3154) (-)

Ion 120.00 (119.70 to 120.70): VU025661.D (-3154) (-)

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 55.84 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

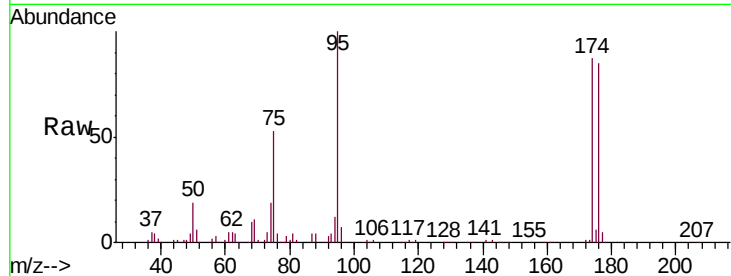
Tot Ion: 75 Resp: 72829

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

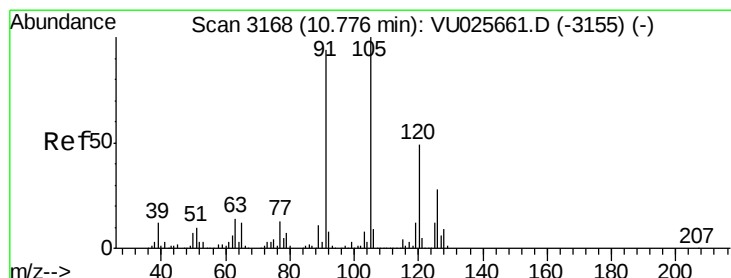
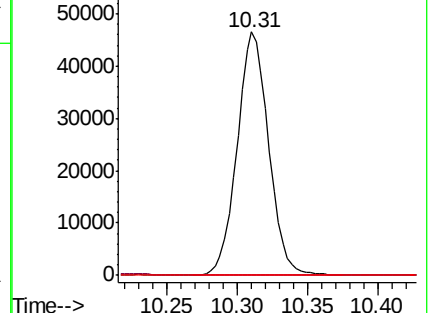
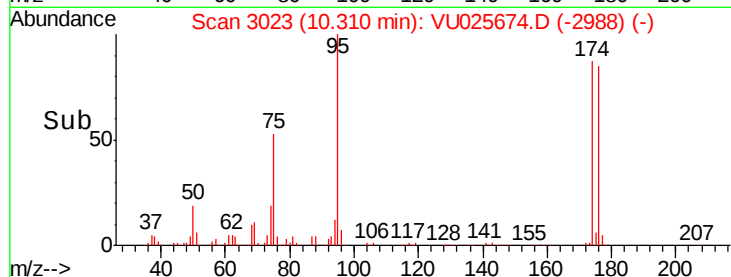
89 0.0 0.0 0.0



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



#82

4-Chlorotoluene

Concen: 0.56 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025674.D

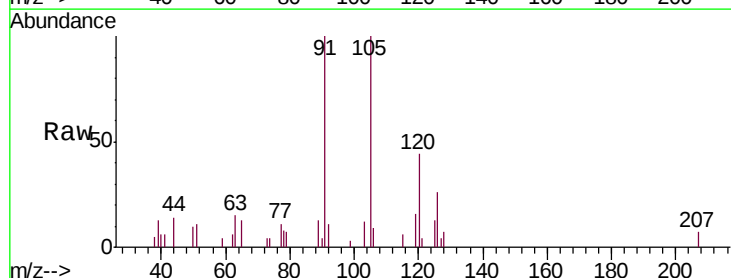
Acq: 27 Jul 2018 17:15

Tgt Ion: 91 Resp: 4591

Ion Ratio Lower Upper

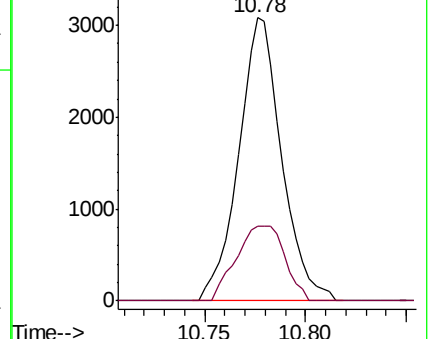
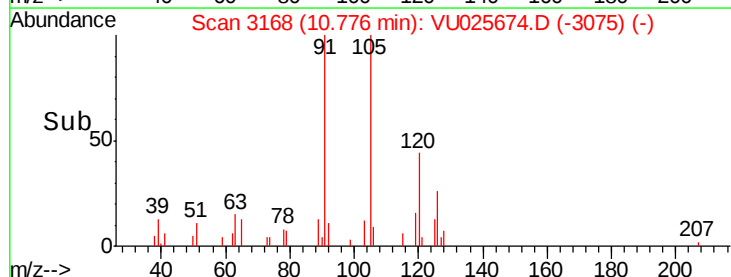
91 100

126 30.0 15.3 45.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

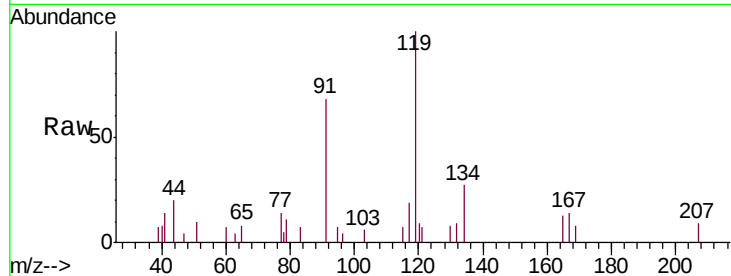




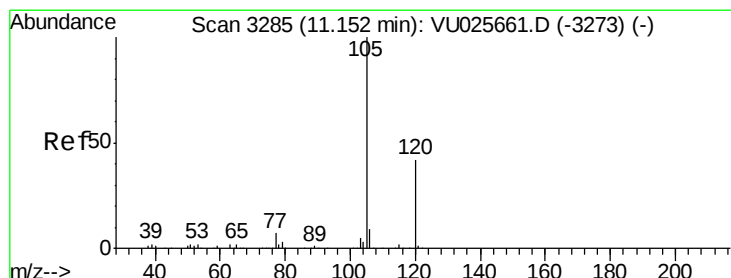
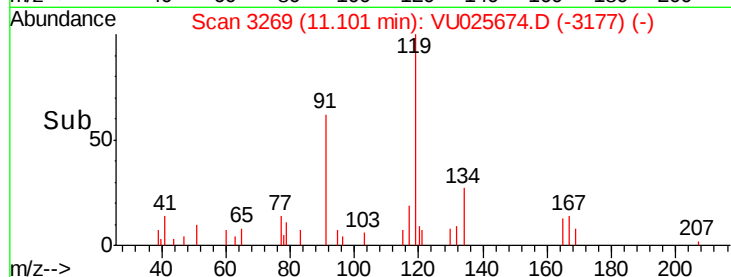
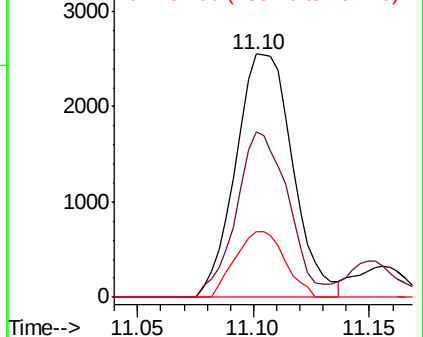
#83
tert-Butylbenzene
Concen: 0.51 ug/l
RT: 11.10 min Scan# 3269
Delta R.T. -0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion:119 Resp: 4360
Ion Ratio Lower Upper
119 100
91 61.8 29.7 89.1
134 23.5 11.5 34.5

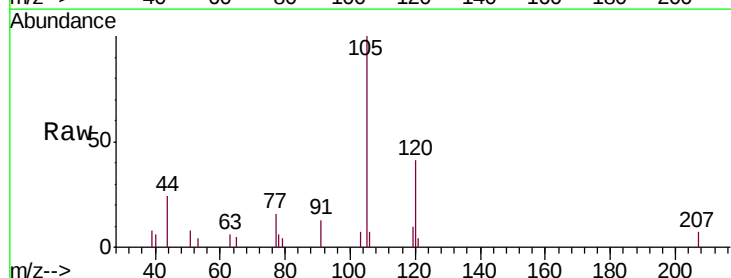


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VU0
Ion 134.00 (133.70 to 134.70): V

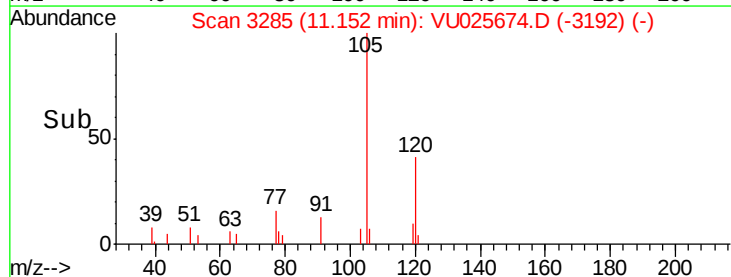
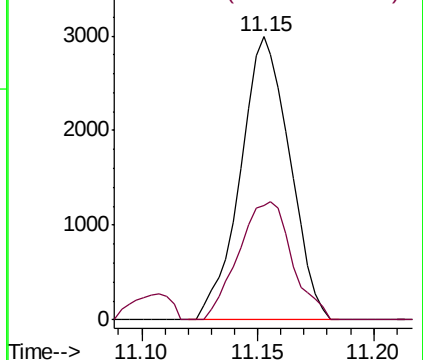


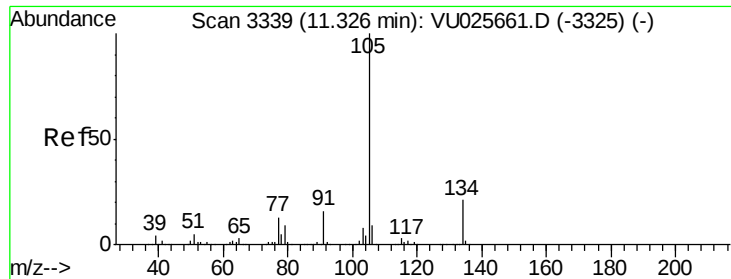
#84
1,2,4-Trimethylbenzene
Concen: 0.51 ug/l
RT: 11.15 min Scan# 3285
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion:105 Resp: 4419
Ion Ratio Lower Upper
105 100
120 45.3 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.52 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

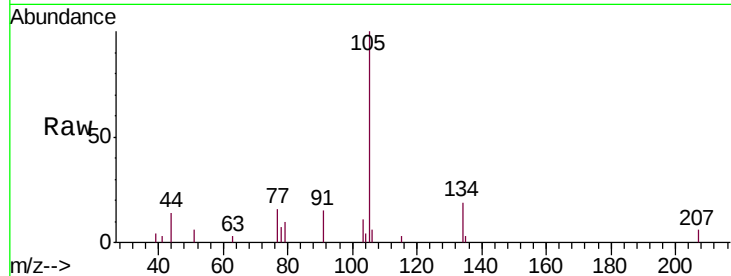
MDL-WATER-03-QT3-2018

Tot Ion:105 Resp: 5418

Ion Ratio Lower Upper

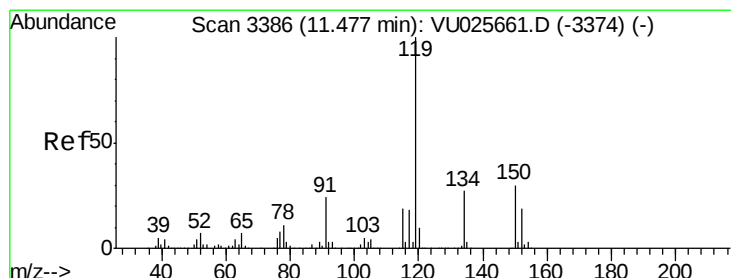
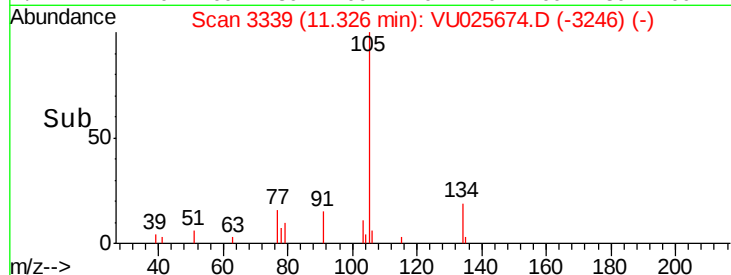
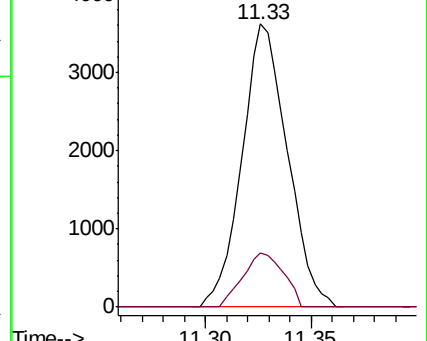
105 100

134 17.1 10.3 30.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.54 ug/l

RT: 11.48 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

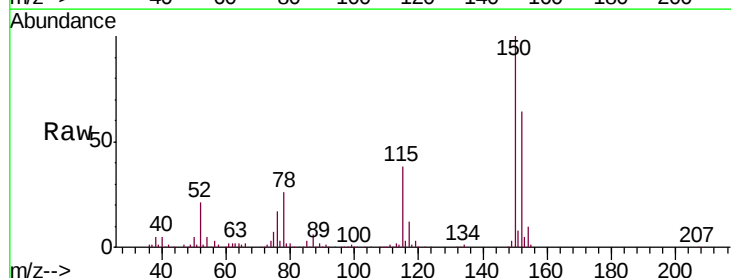
Tgt Ion:119 Resp: 5049

Ion Ratio Lower Upper

119 100

134 30.4 13.2 39.5

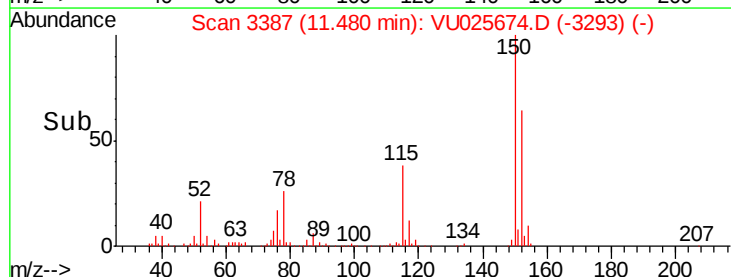
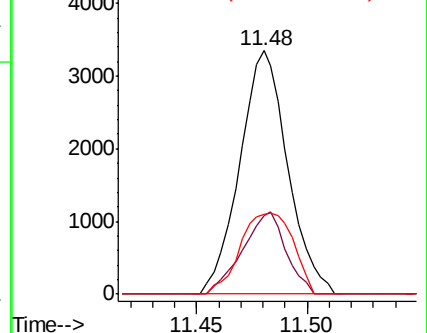
91 36.6 12.0 36.1#

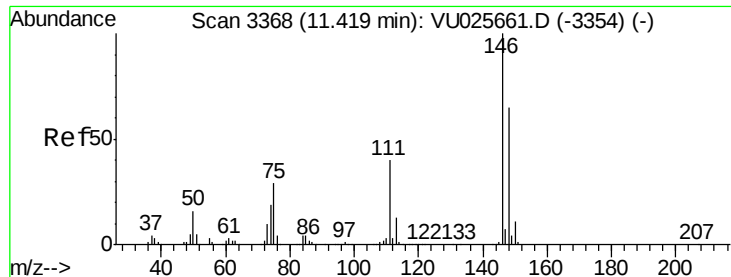


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0





#87

1,3-Dichlorobenzene

Concen: 0.64 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT3-2018

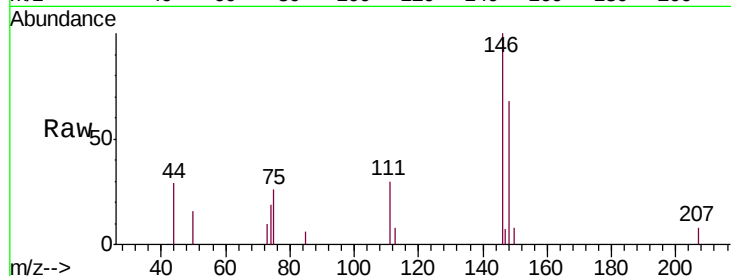
Tot Ion:146 Resp: 3294

Ion Ratio Lower Upper

146 100

111 31.9 19.7 59.1

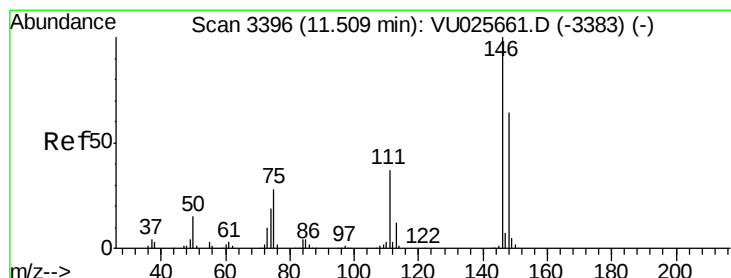
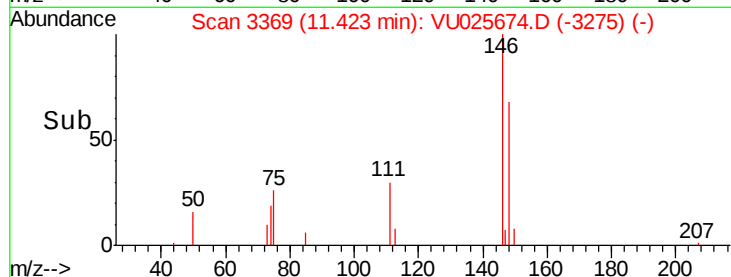
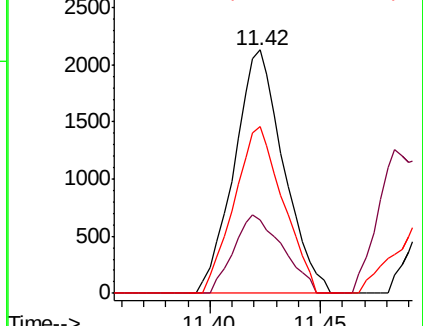
148 67.9 32.1 96.3



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



#88

1,4-Dichlorobenzene

Concen: 0.61 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. -0.09 min

Lab File: VU025674.D

Acq: 27 Jul 2018 17:15

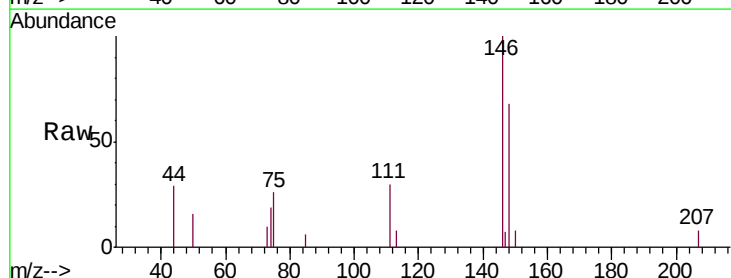
Tgt Ion:146 Resp: 3294

Ion Ratio Lower Upper

146 100

111 31.9 19.4 58.1

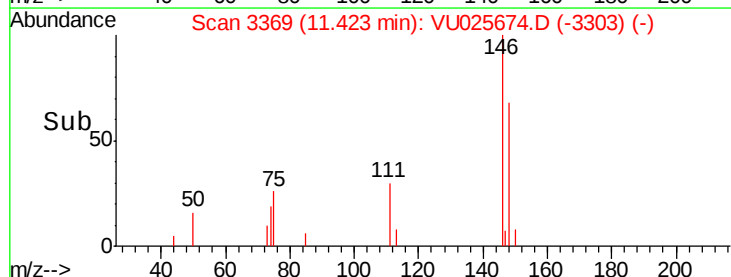
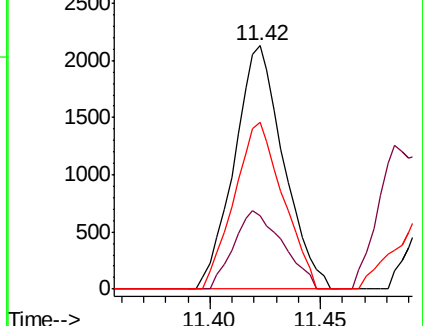
148 67.9 31.7 95.1

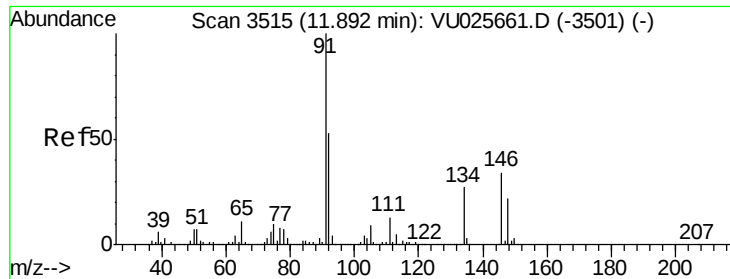


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

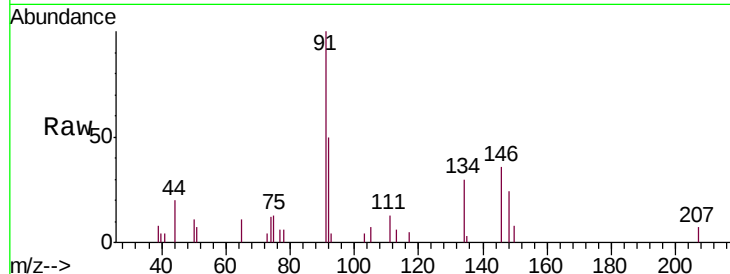




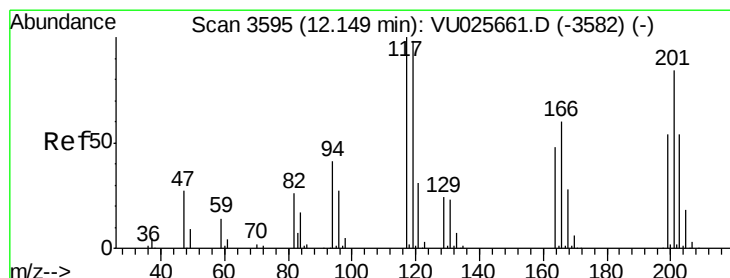
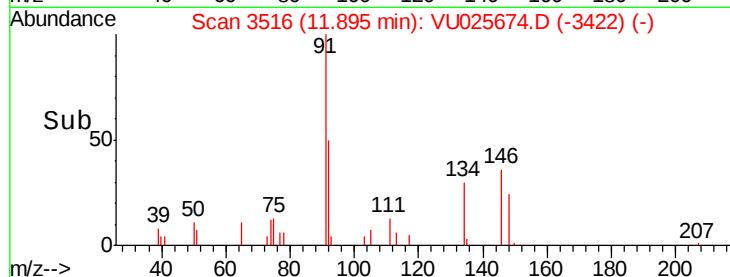
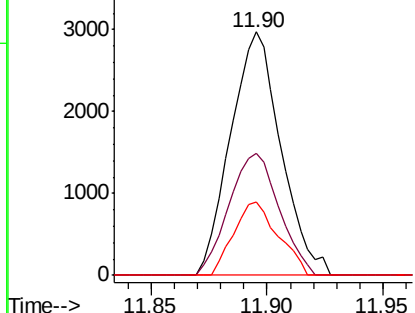
#89
n-Butylbenzene
Concen: 0.52 ug/l
RT: 11.90 min Scan# 3516
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion: 91 Resp: 4485
Ion Ratio Lower Upper
91 100
92 50.0 26.5 79.5
134 26.5 13.6 40.7

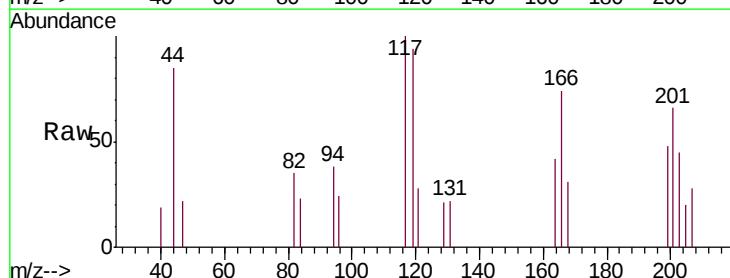


Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0
Ion 134.00 (133.70 to 134.70): V

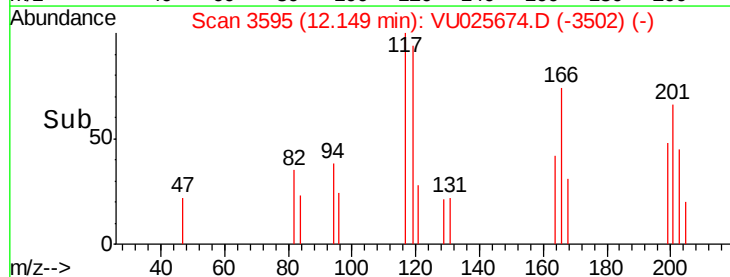
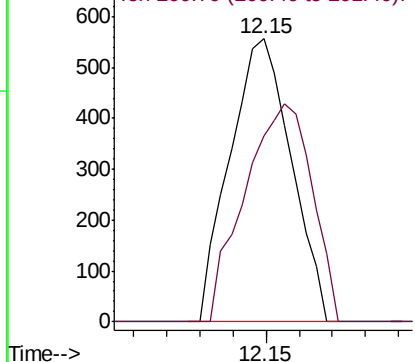


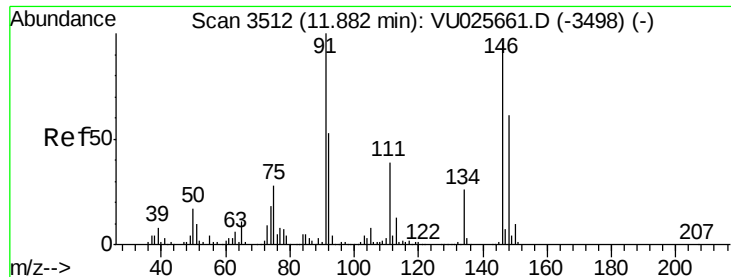
#90
Hexachloroethane
Concen: 0.43 ug/l
RT: 12.15 min Scan# 3595
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion: 117 Resp: 715
Ion Ratio Lower Upper
117 100
201 84.6 42.5 127.6



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

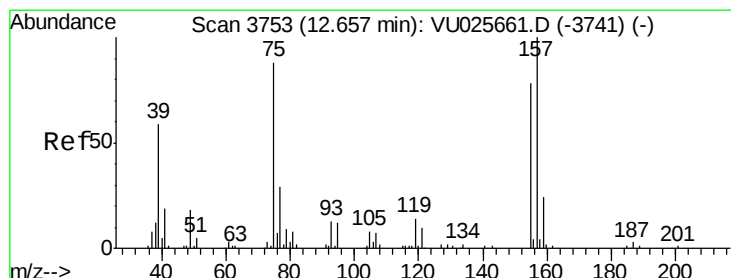
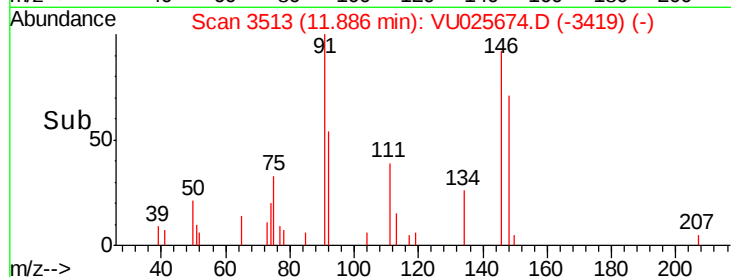
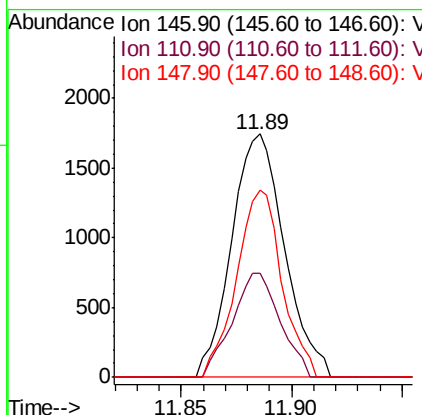
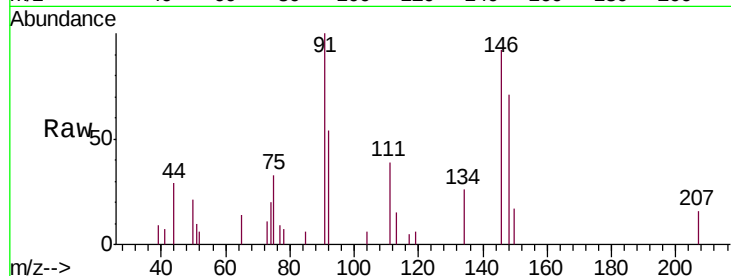




#91
 1,2-Dichlorobenzene
 Concen: 0.57 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

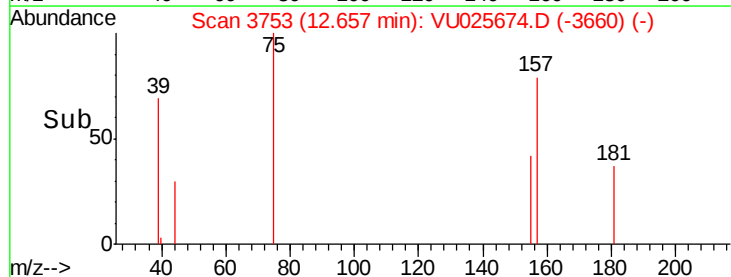
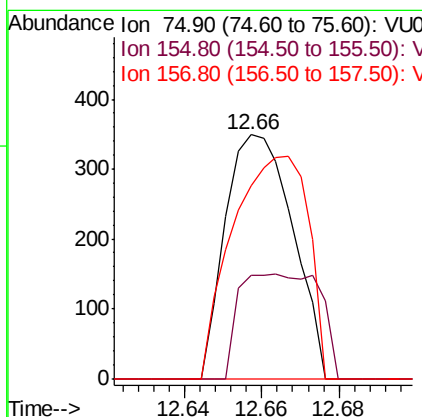
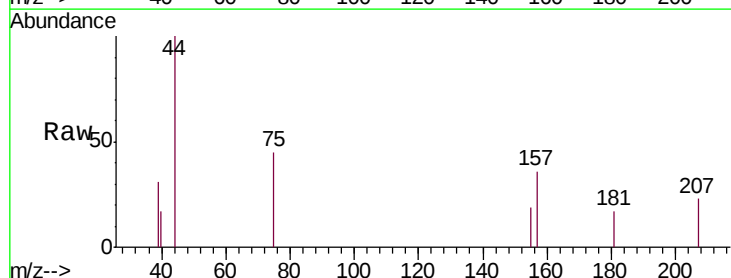
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

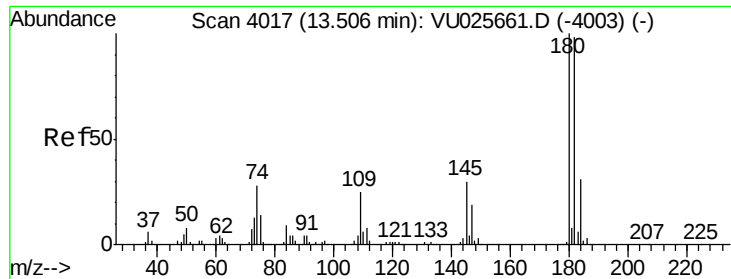
Tot Ion:146 Resp: 2894
 Ion Ratio Lower Upper
 146 100
 111 38.9 20.6 61.8
 148 66.3 31.5 94.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.51 ug/l
 RT: 12.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion: 75 Resp: 422
 Ion Ratio Lower Upper
 75 100
 155 51.2 44.5 133.3
 157 102.6 57.0 170.8

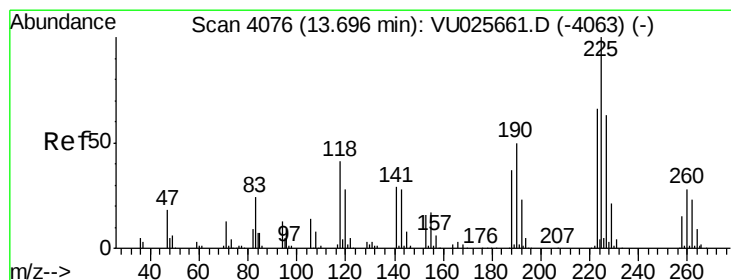
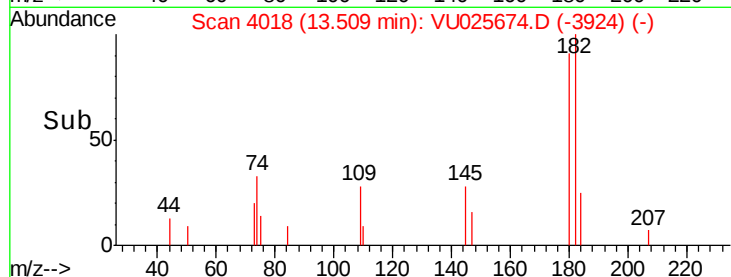
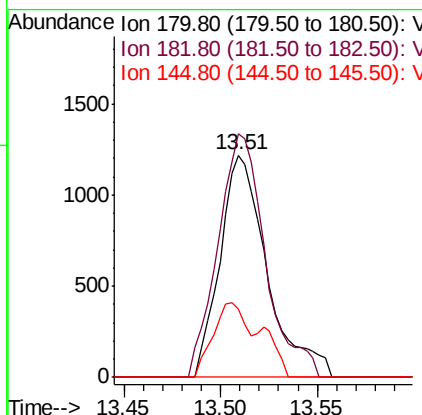
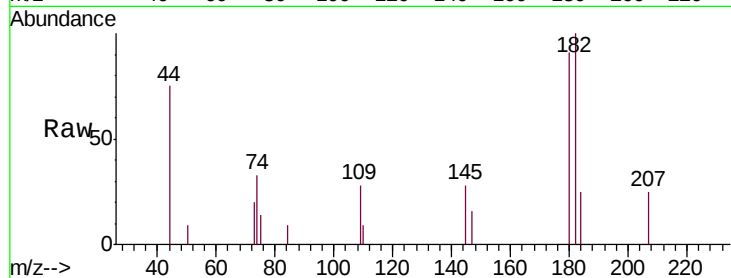




#93
 1,2,4-Trichlorobenzene
 Concen: 0.60 ug/l
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

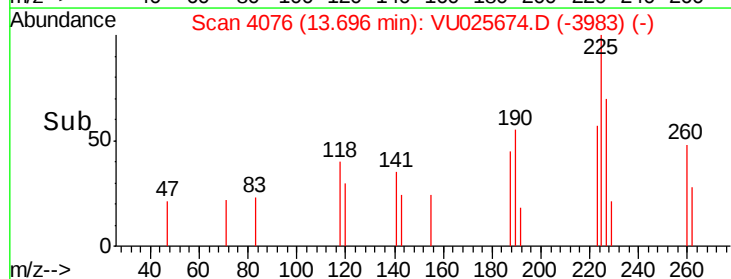
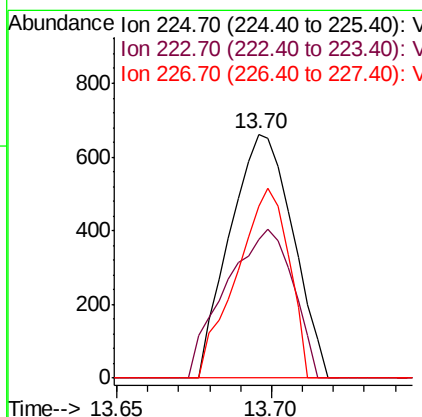
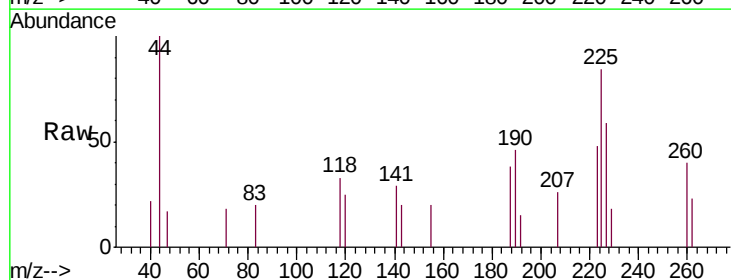
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2018

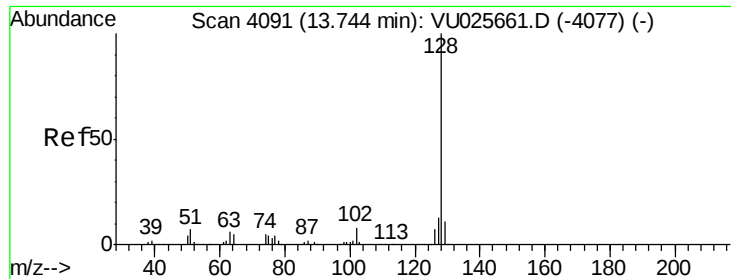
Tot Ion:180 Resp: 2067
 Ion Ratio Lower Upper
 180 100
 182 110.2 47.3 141.9
 145 23.8 14.9 44.7



#94
 Hexachlorobutadiene
 Concen: 0.52 ug/l
 RT: 13.70 min Scan# 4076
 Delta R.T. 0.00 min
 Lab File: VU025674.D
 Acq: 27 Jul 2018 17:15

Tgt Ion:225 Resp: 935
 Ion Ratio Lower Upper
 225 100
 223 65.5 31.9 95.7
 227 64.9 32.3 96.9

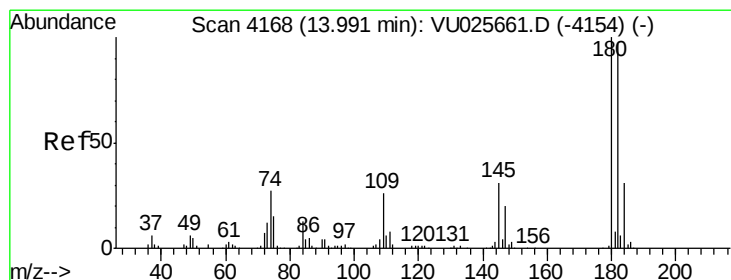
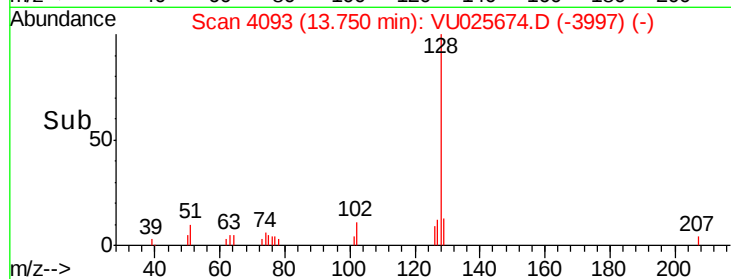
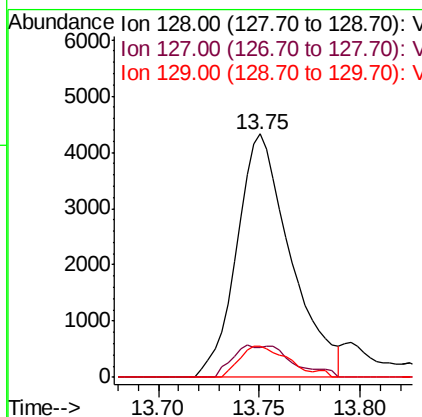
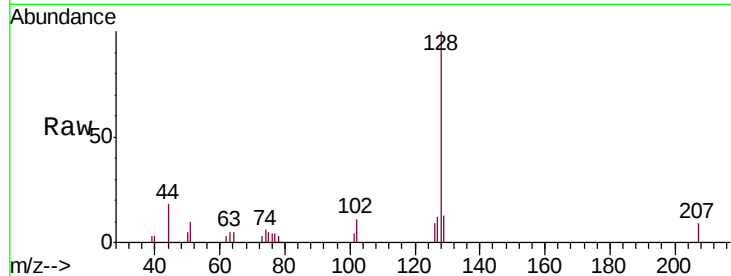




#95
Naphthalene
Concen: 1.96 ug/l
RT: 13.75 min Scan# 4093
Delta R.T. 0.01 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

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

Tot Ion:128 Resp: 8055
Ion Ratio Lower Upper
128 100
127 7.0 10.5 15.7#
129 11.9 8.3 12.5



#96
1,2,3-Trichlorobenzene
Concen: 0.57 ug/l
RT: 13.99 min Scan# 4169
Delta R.T. 0.00 min
Lab File: VU025674.D
Acq: 27 Jul 2018 17:15

Tgt Ion:180 Resp: 1957
Ion Ratio Lower Upper
180 100
182 101.3 47.8 143.3
145 30.1 15.6 46.8

