

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049793.D
 Acq On : 13 Jul 2018 13:32
 Operator : MD\SY
 Sample : J3762-09 MDL 0.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jul 13 23:47:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1069895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1688634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1450626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	555599	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	690931	55.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.02%	
35) Dibromofluoromethane	7.59	113	657061	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	
50) Toluene-d8	10.09	98	1973867	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	
62) 4-Bromofluorobenzene	12.40	95	599412	38.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	7111	Below Cal		84
3) Chloromethane	2.06	50	10786	Below Cal		98
5) Bromomethane	2.57	94	9746	Below Cal		83
6) Chloroethane	2.70	64	6339	0.67	ug/l	97
7) Trichlorofluoromethane	3.01	101	13951	0.69	ug/l	95
8) Diethyl Ether	3.41	74	4540	0.62	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.76	101	9684	0.74	ug/l #	82
10) Methyl Iodide	3.95	142	8368	0.50	ug/l	94
11) Tert butyl alcohol	4.80	59	493	0.59	ug/l #	90
12) 1,1-Dichloroethene	3.74	96	8253	0.71	ug/l	90
13) Acrolein	3.62	56	3729	5.10	ug/l	96
14) Allyl chloride	4.32	41	12835	0.68	ug/l #	81
15) Acrylonitrile	5.00	53	11116	2.66	ug/l #	89
16) Acetone	3.83	43	11757	1.78	ug/l	90
17) Carbon Disulfide	4.05	76	23980	0.38	ug/l	100
18) Methyl Acetate	4.34	43	18223	1.03	ug/l #	86
19) Methyl tert-butyl Ether	5.05	73	18931	0.59	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	6965	0.55	ug/l	84
22) Diisopropyl ether	5.96	45	21177	0.55	ug/l #	85
23) Vinyl Acetate	5.91	43	66148	2.55	ug/l	97
24) 1,1-Dichloroethane	5.85	63	14959	0.61	ug/l	99
25) 2-Butanone	6.85	43	14402	2.97	ug/l #	81
26) 2,2-Dichloropropane	6.83	77	13928	0.69	ug/l	84
27) cis-1,2-Dichloroethene	6.83	96	7835	0.54	ug/l	80
29) Tetrahydrofuran	7.22	42	8406	2.76	ug/l	98
30) Chloroform	7.37	83	17398	0.69	ug/l	89
31) Cyclohexane	7.66	56	29382	1.27	ug/l #	36
32) 1,1,1-Trichloroethane	7.57	97	13636	0.64	ug/l #	50
36) 1,1-Dichloropropene	7.80	75	10164	0.52	ug/l	97
38) Carbon Tetrachloride	7.77	117	13811	0.68	ug/l #	79
39) Methylcyclohexane	9.08	83	10989	0.54	ug/l	95
40) Benzene	8.04	78	33633	0.58	ug/l	92
41) Methacrylonitrile	7.18	41	2758	0.42	ug/l #	75
42) 1,2-Dichloroethane	8.12	62	11734	0.62	ug/l	94

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Quant Time: Jul 13 23:47:32 2018
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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)

43) Isopropyl Acetate	8.17	43	10447	0.50	ug/l #	68
44) Trichloroethene	8.84	130	8589	0.55	ug/l	99
45) 1,2-Dichloropropane	9.13	63	9015	0.58	ug/l	97
46) Dibromomethane	9.21	93	5080	0.55	ug/l	95
47) Bromodichloromethane	9.41	83	11974	0.59	ug/l	96
48) Methyl methacrylate	9.20	41	5297	0.51	ug/l	96
49) 1,4-Dioxane	9.20	88	1603	11.82	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	26360	2.34	ug/l	98
52) Toluene	10.16	92	19807	0.57	ug/l	98
53) t-1,3-Dichloropropene	10.39	75	8577	0.44	ug/l #	68
54) cis-1,3-Dichloropropene	9.84	75	11746	0.52	ug/l	97
56) Ethyl methacrylate	10.44	69	6920	0.44	ug/l	90
57) 1,3-Dichloropropane	10.71	76	12511	0.56	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	14192	1.88	ug/l	98
59) 2-Hexanone	10.76	43	15228	2.04	ug/l	99
60) Dibromochloromethane	10.91	129	7907	0.52	ug/l	89
61) 1,2-Dibromoethane	11.01	107	5859	0.46	ug/l	89
64) Tetrachloroethene	10.63	164	7819	0.59	ug/l	92
65) Chlorobenzene	11.44	112	22040	0.58	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	8016	0.56	ug/l #	62
67) Ethyl Benzene	11.51	91	30079	0.49	ug/l	99
68) m/p-Xylenes	11.63	106	21239	0.91	ug/l	96
69) o-Xylene	11.95	106	10605	0.47	ug/l	99
70) Styrene	11.97	104	14425	0.40	ug/l	92
71) Bromoform	12.13	173	5166	0.54	ug/l #	99
73) Isopropylbenzene	12.25	105	25835	0.56	ug/l	98
74) N-ethyl acetate	12.07	43	6768	0.56	ug/l	99
75) 1,1,1,2-Tetrachloroethane	12.51	83	9123	Below	Cal	92
76) 1,2,3-Trichloropropane	12.56	75	9542	0.97	ug/l #	100
77) Bromobenzene	12.53	156	8186	0.67	ug/l	97
78) n-propylbenzene	12.59	91	31800	0.61	ug/l	100
79) 2-Chlorotoluene	12.68	91	20473	0.64	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	21179	0.58	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	289145	94.60	ug/l #	13
82) 4-Chlorotoluene	12.77	91	19044	0.60	ug/l	99
83) tert-Butylbenzene	12.99	119	18617	0.57	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	18520	0.50	ug/l	99
85) sec-Butylbenzene	13.17	105	22311	0.52	ug/l	99
86) p-Isopropyltoluene	13.29	119	18243	0.50	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	12110	0.57	ug/l	88
88) 1,4-Dichlorobenzene	13.28	146	12110	0.59	ug/l	88
89) n-Butylbenzene	13.62	91	13118	0.44	ug/l	97
90) Hexachloroethane	13.88	117	5374	Below	Cal	99
91) 1,2-Dichlorobenzene	13.65	146	13394	0.65	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1356	0.35	ug/l	75
93) 1,2,4-Trichlorobenzene	14.91	180	4598	3.27	ug/l	89
94) Hexachlorobutadiene	15.01	225	4695	Below	Cal	96
95) Naphthalene	15.14	128	8516	4.34	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	4976	0.50	ug/l	93

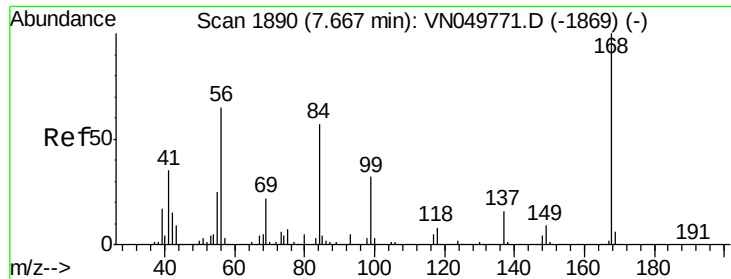
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

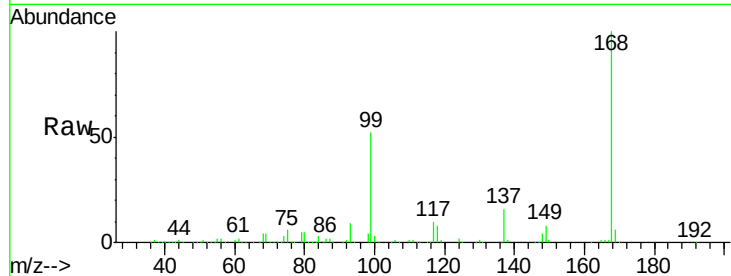
MDL-WATER-03-QT3-2018

Tot Ion:168 Resp: 1069895

Ion Ratio Lower Upper

168 100

99 51.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

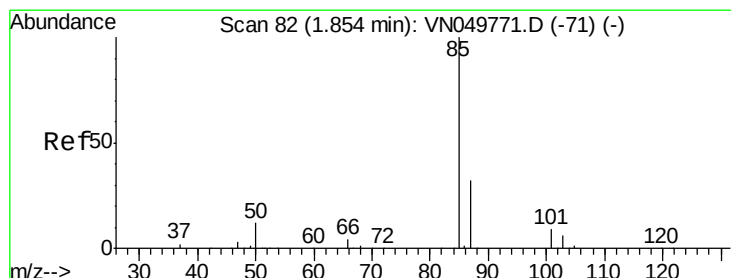
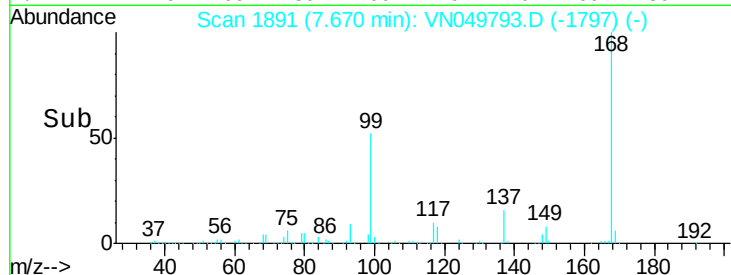
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049793.D

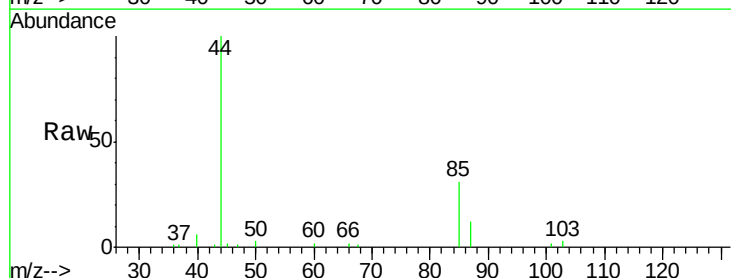
Acq: 13 Jul 2018 13:32

Tgt Ion: 85 Resp: 7111

Ion Ratio Lower Upper

85 100

87 39.2 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

6000

5000

4000

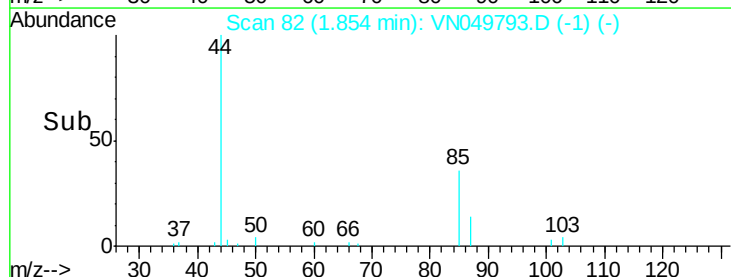
3000

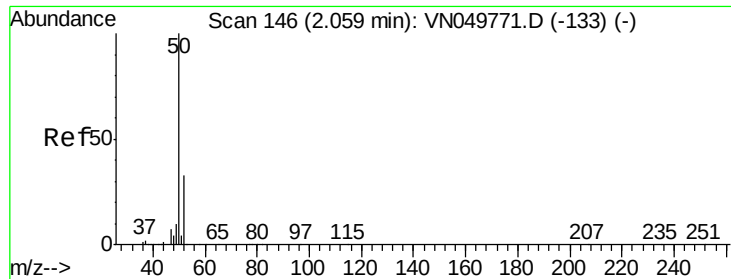
2000

1000

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

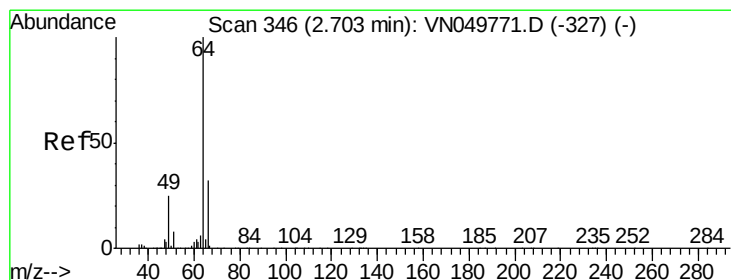
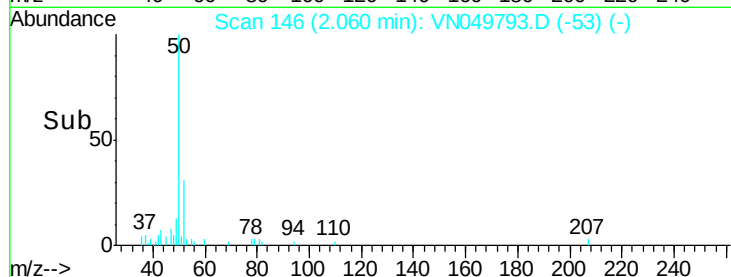
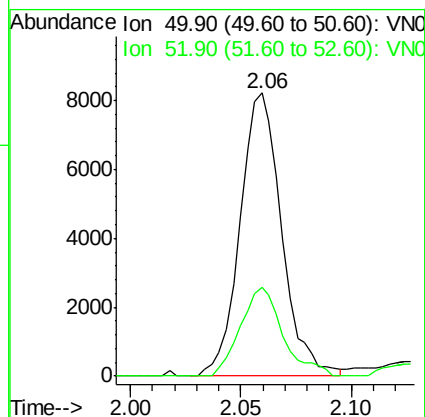
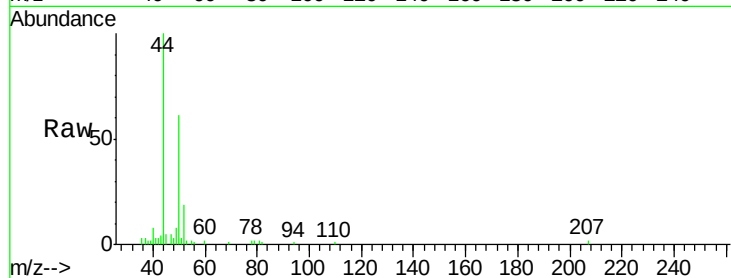
MDL-WATER-03-QT3-2018

Tot Ion: 50 Resp: 10786

Ion Ratio Lower Upper

50 100

52 31.4 26.1 39.1



#6

Chloroethane

Concen: 0.67 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049793.D

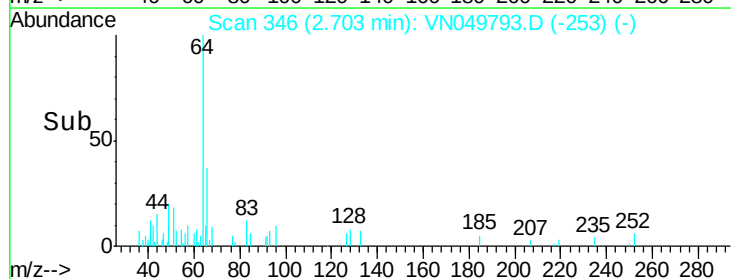
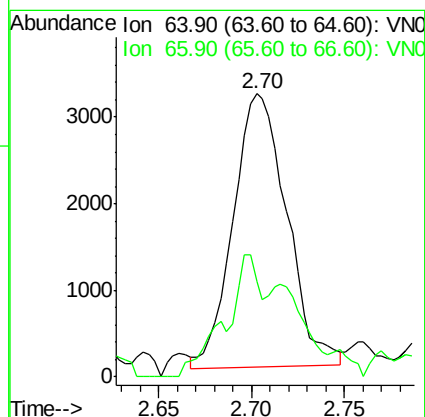
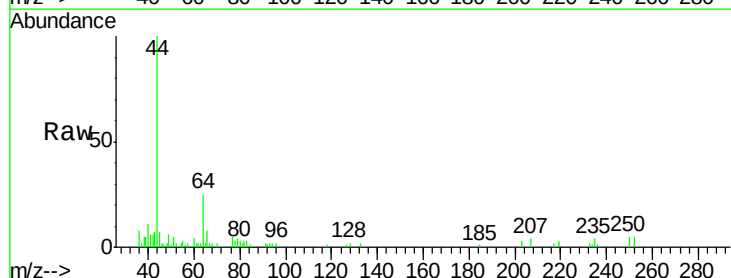
Acq: 13 Jul 2018 13:32

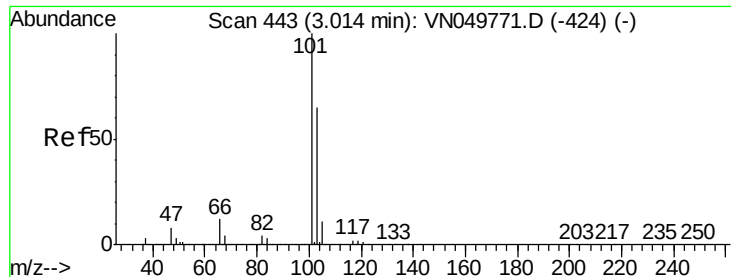
Tgt Ion: 64 Resp: 6339

Ion Ratio Lower Upper

64 100

66 30.3 25.6 38.4





#7

Trichlorofluoromethane

Concen: 0.69 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

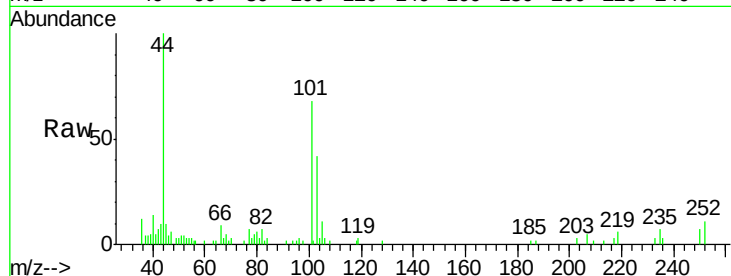
MDL-WATER-03-QT3-2018

Tot Ion:101 Resp: 13951

Ion Ratio Lower Upper

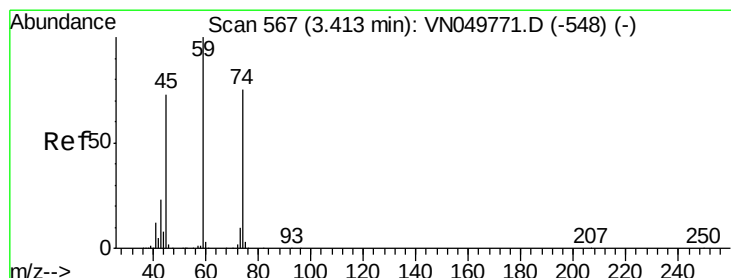
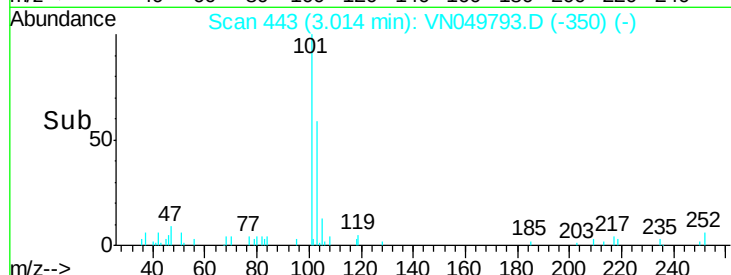
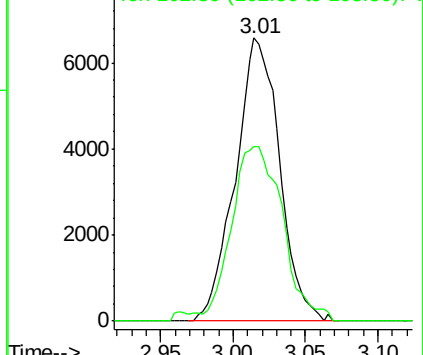
101 100

103 61.8 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.62 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN049793.D

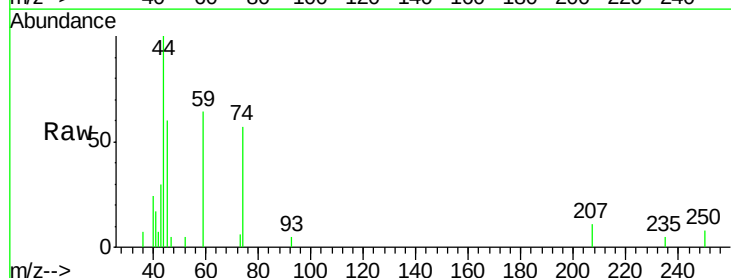
Acq: 13 Jul 2018 13:32

Tgt Ion: 74 Resp: 4540

Ion Ratio Lower Upper

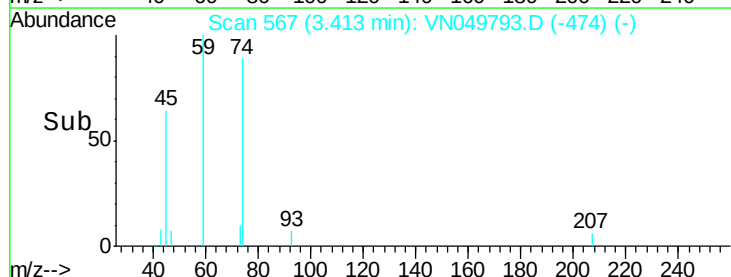
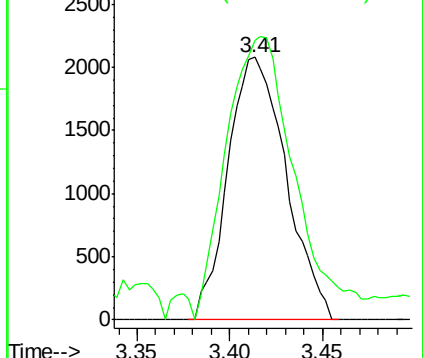
74 100

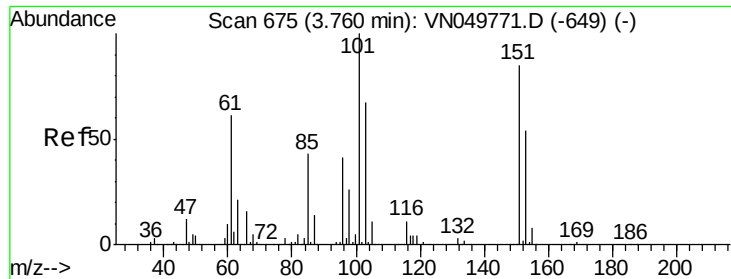
45 127.9 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.74 ug/l

RT: 3.76 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

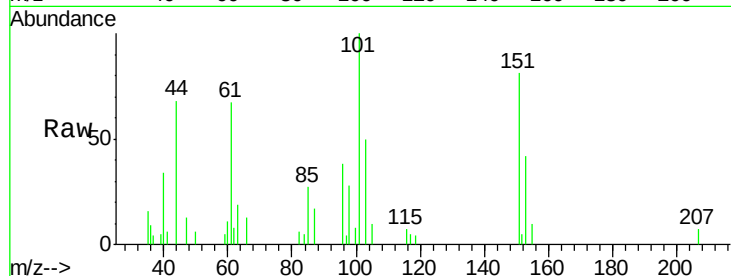
Tot Ion:101 Resp: 9684

Ion Ratio Lower Upper

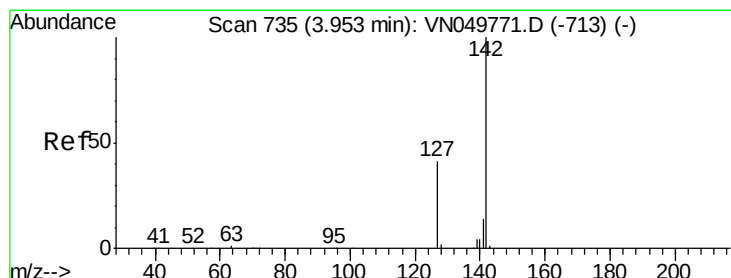
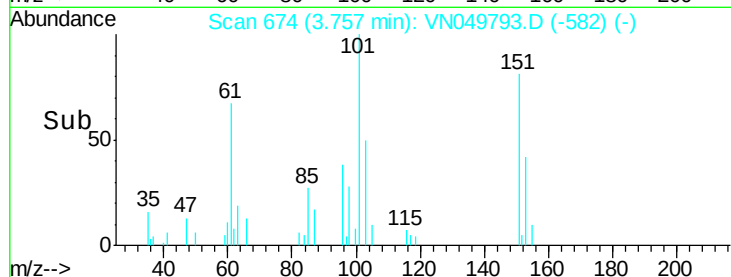
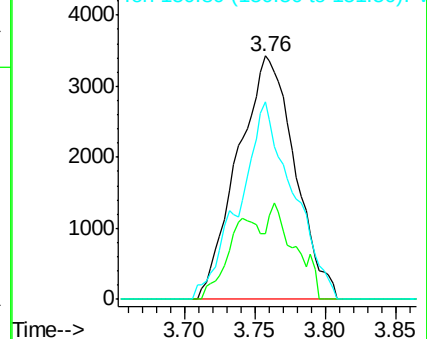
101 100

85 18.2 34.4 51.6#

151 76.0 66.2 99.4



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.50 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

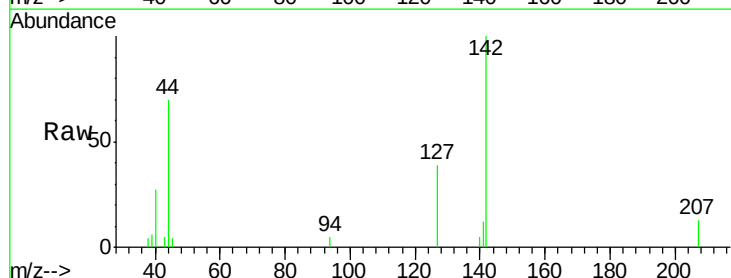
Tgt Ion:142 Resp: 8368

Ion Ratio Lower Upper

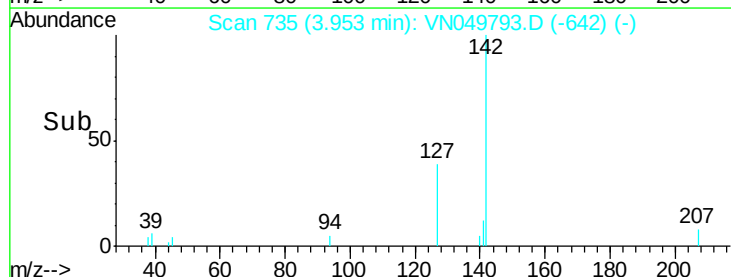
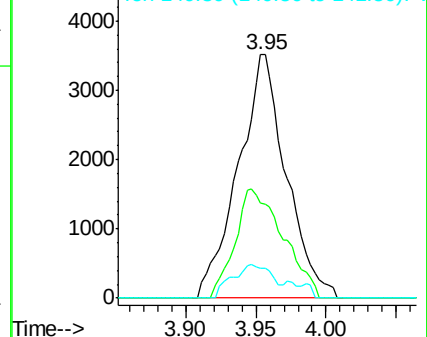
142 100

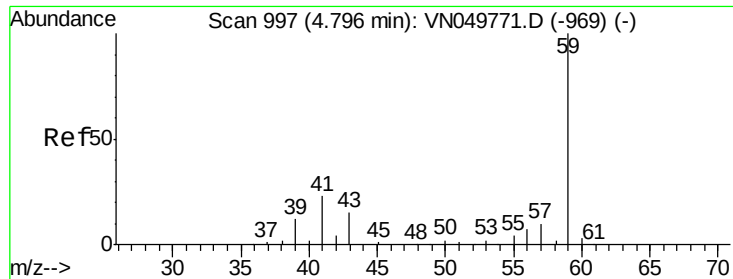
127 44.8 32.5 48.7

141 11.7 11.1 16.7



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

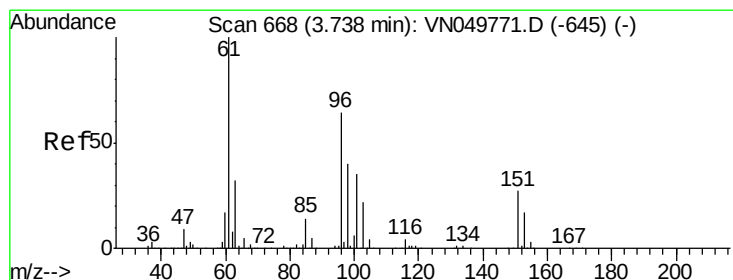
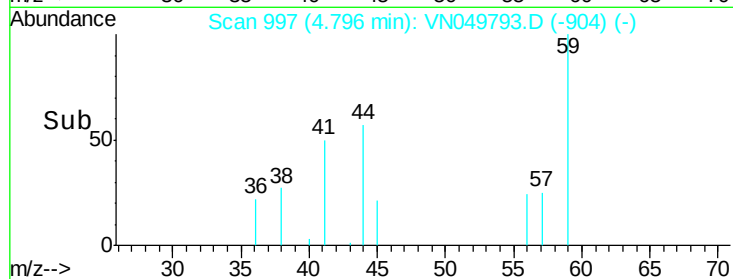
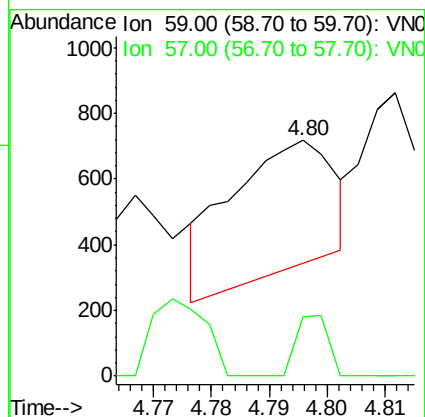
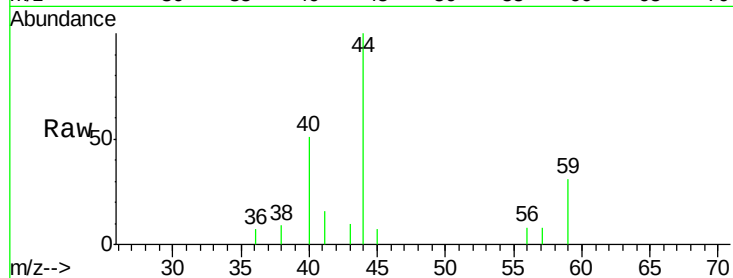




#11
Tert butyl alcohol
Concen: 0.59 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

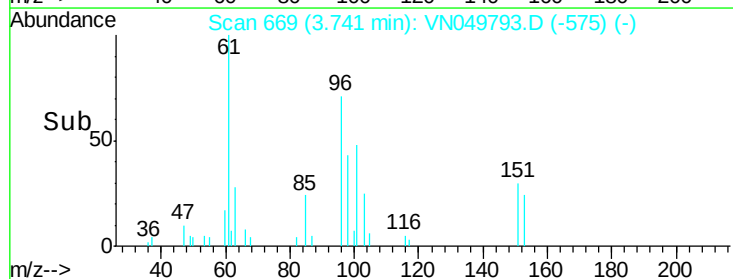
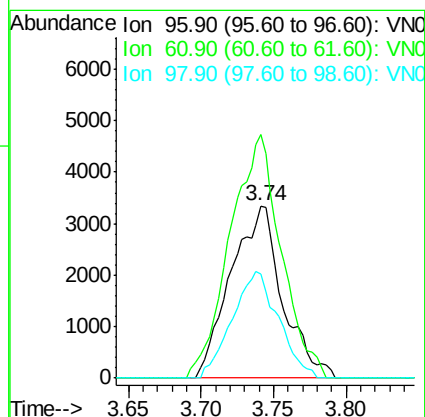
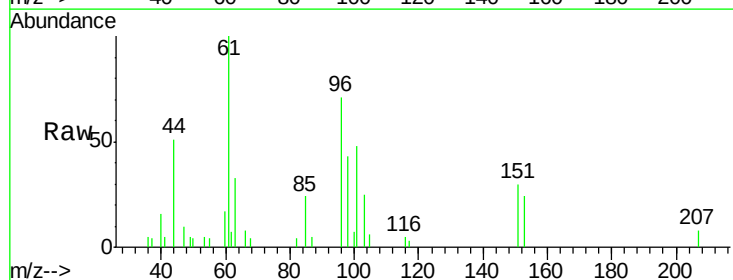
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

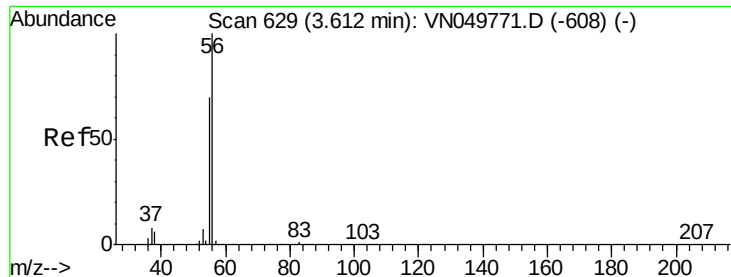
Tot Ion: 59 Resp: 493
Ion Ratio Lower Upper
59 100
57 14.2 8.5 12.7#



#12
1,1-Dichloroethene
Concen: 0.71 ug/l
RT: 3.74 min Scan# 669
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 96 Resp: 8253
Ion Ratio Lower Upper
96 100
61 141.5 126.5 189.7
98 60.3 51.0 76.6





#13

Acrolein

Concen: 5.10 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

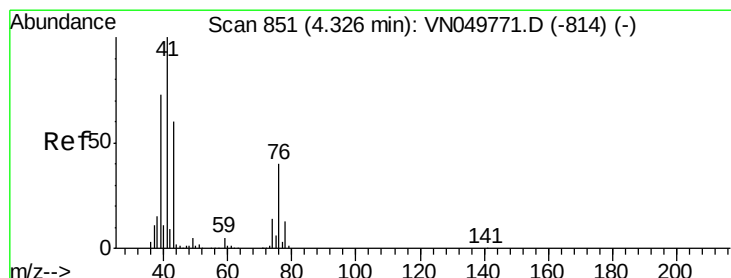
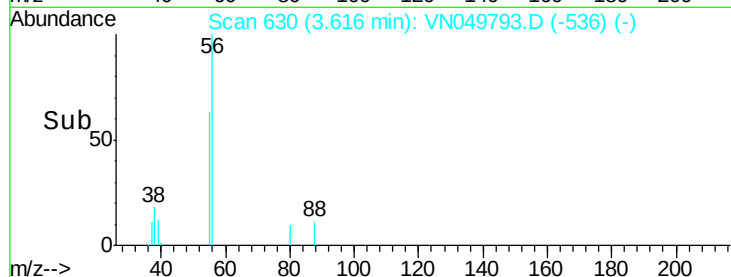
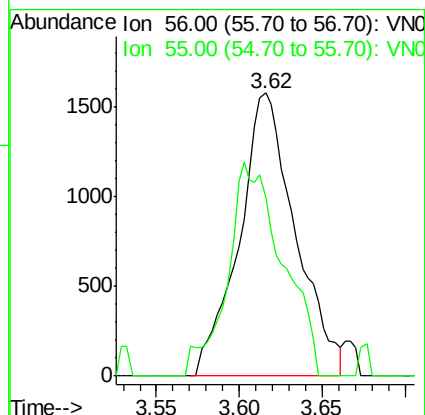
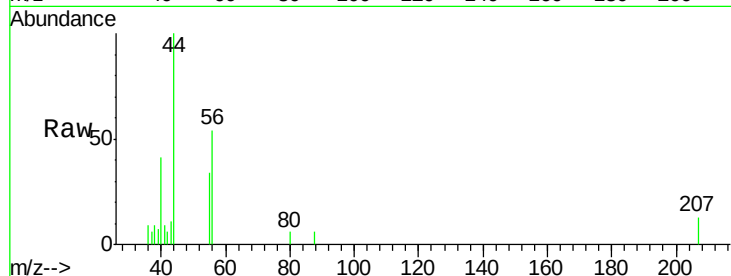
MDL-WATER-03-QT3-2018

Tot Ion: 56 Resp: 3729

Ion Ratio Lower Upper

56 100

55 73.5 55.8 83.8



#14

Allyl chloride

Concen: 0.68 ug/l

RT: 4.32 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

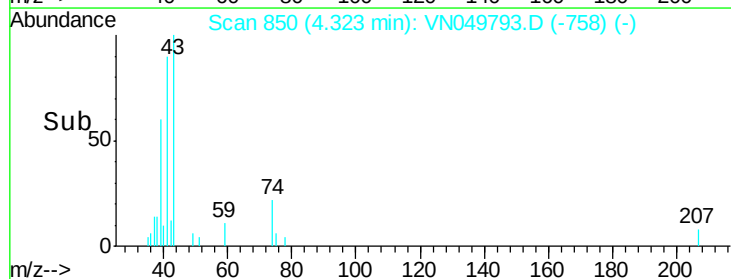
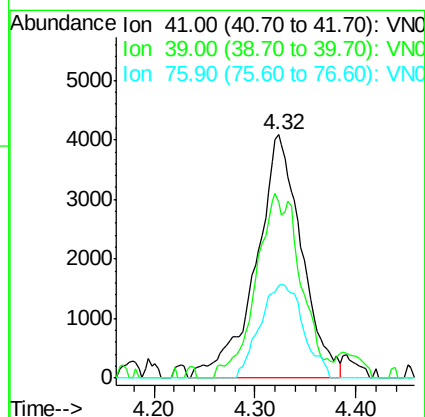
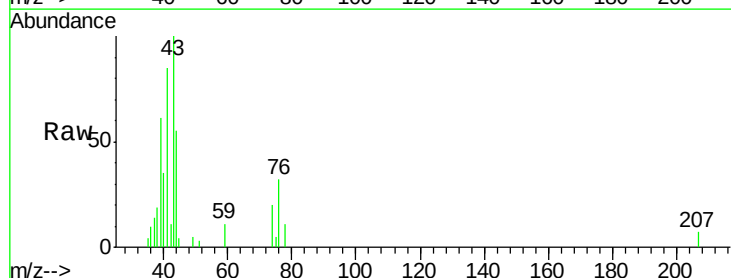
Tgt Ion: 41 Resp: 12835

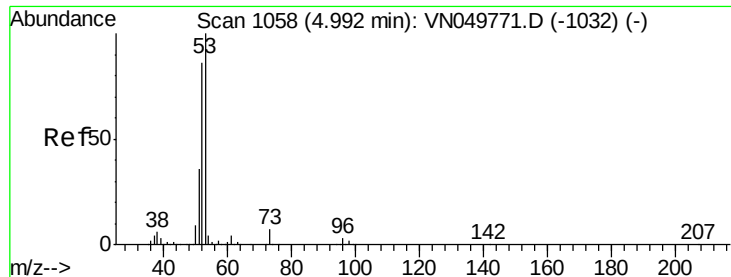
Ion Ratio Lower Upper

41 100

39 43.1 53.2 79.8#

76 36.5 29.0 43.6





#15

Acrylonitrile

Concen: 2.66 ug/l

RT: 5.00 min Scan# 1062

Delta R.T. 0.01 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

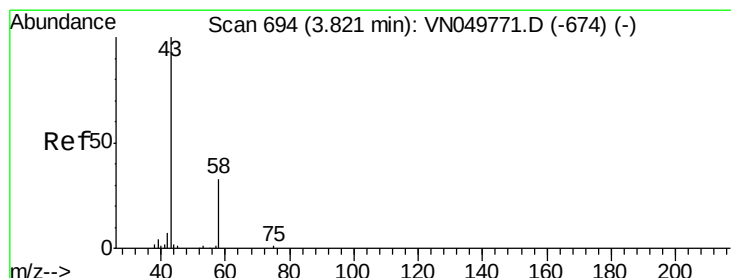
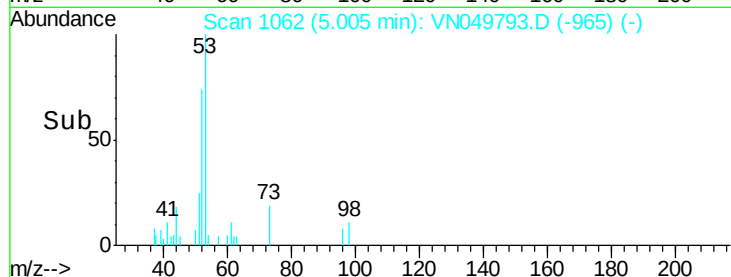
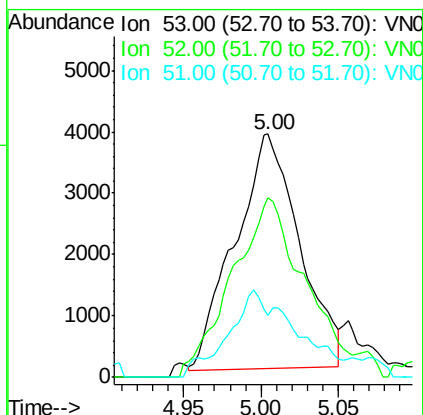
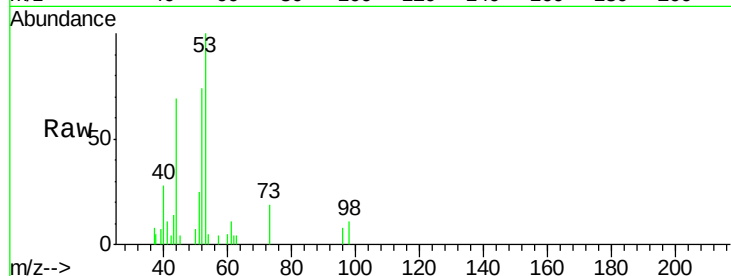
Tot Ion: 53 Resp: 11116

Ion Ratio Lower Upper

53 100

52 86.0 64.8 97.2

51 21.6 28.9 43.3#



#16

Acetone

Concen: 1.78 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN049793.D

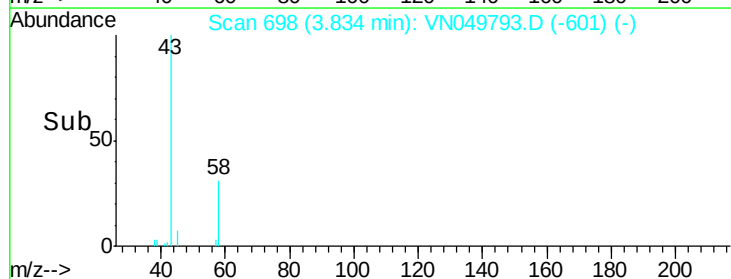
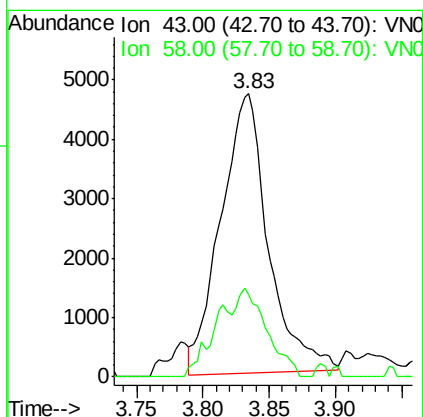
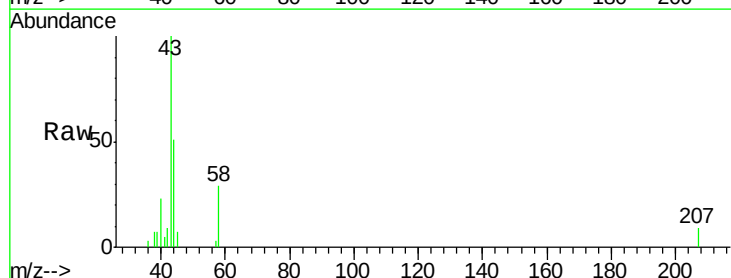
Acq: 13 Jul 2018 13:32

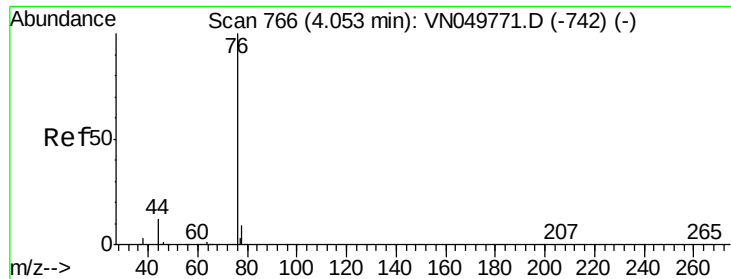
Tgt Ion: 43 Resp: 11757

Ion Ratio Lower Upper

43 100

58 26.7 25.9 38.9

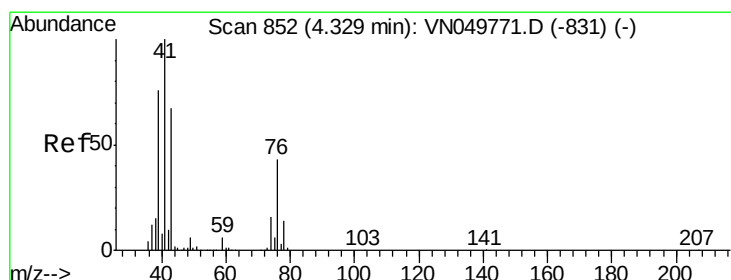
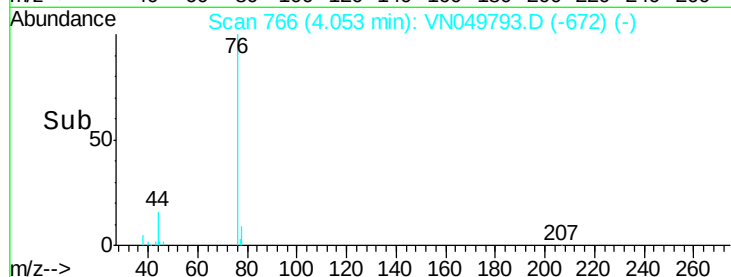
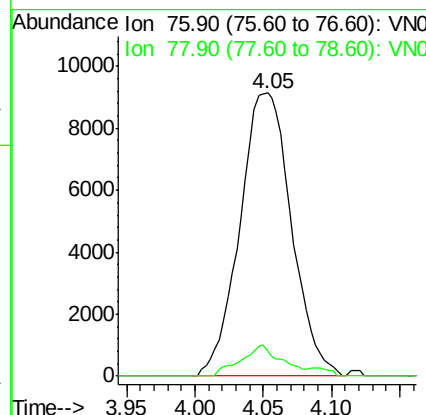
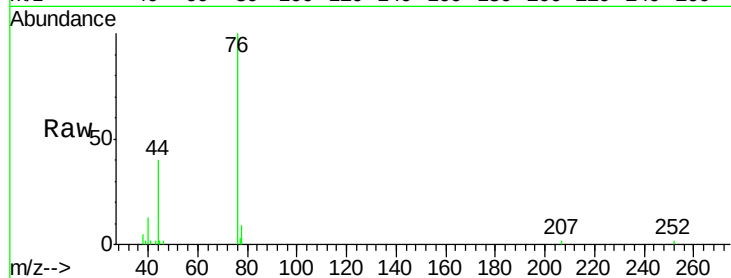




#17
Carbon Disulfide
Concen: 0.38 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

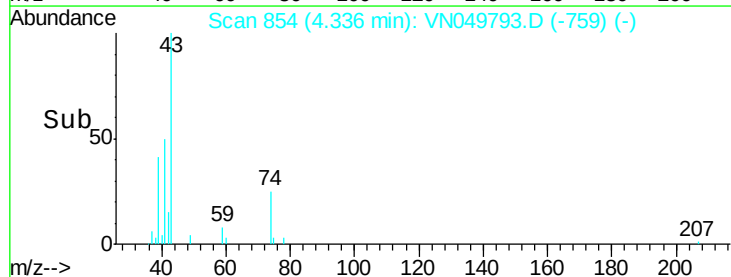
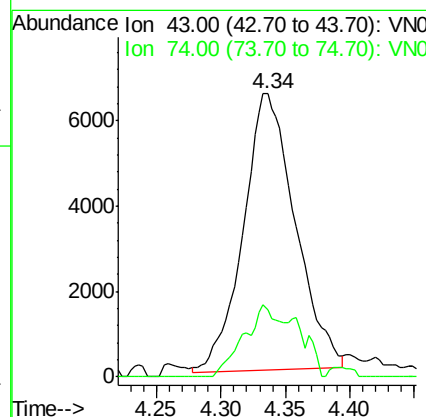
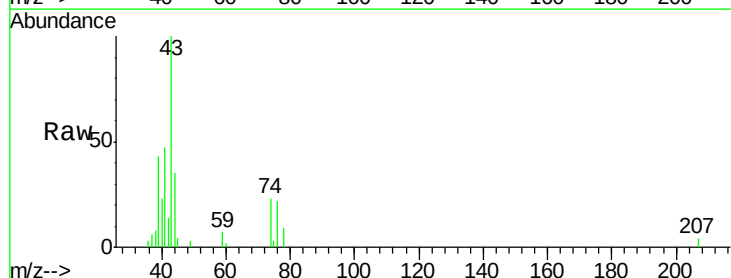
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

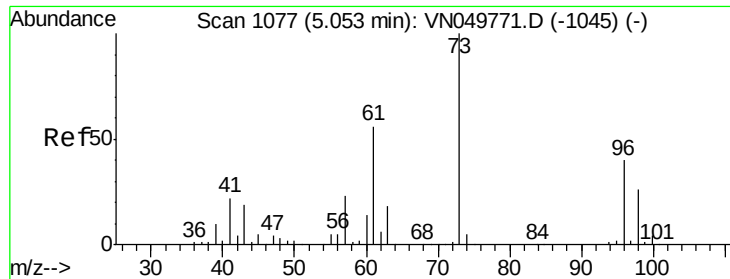
Tot Ion: 76 Resp: 23980
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7



#18
Methyl Acetate
Concen: 1.03 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 43 Resp: 18223
Ion Ratio Lower Upper
43 100
74 17.9 19.8 29.8#





#19

Methyl tert-butyl Ether

Concen: 0.59 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

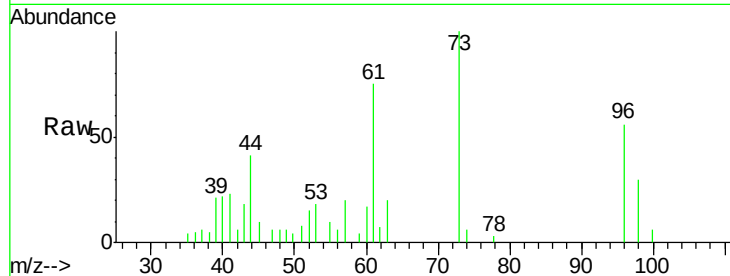
MDL-WATER-03-QT3-2018

Tot Ion: 73 Resp: 18931

Ion Ratio Lower Upper

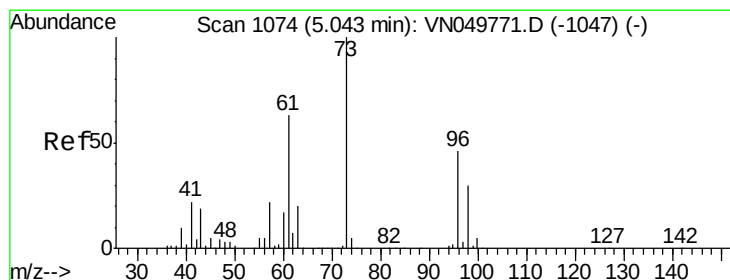
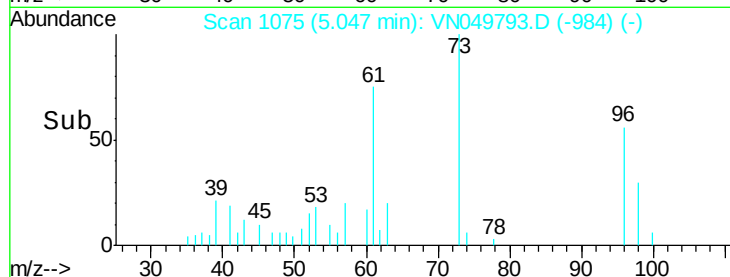
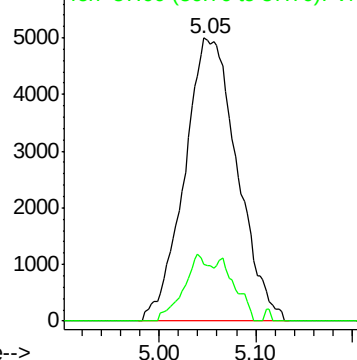
73 100

57 20.1 18.1 27.1



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.55 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

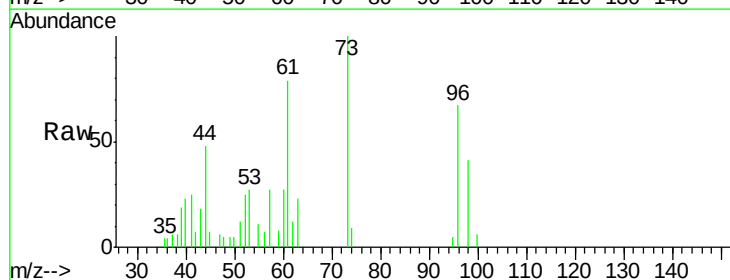
Tgt Ion: 96 Resp: 6965

Ion Ratio Lower Upper

96 100

61 110.5 109.0 163.6

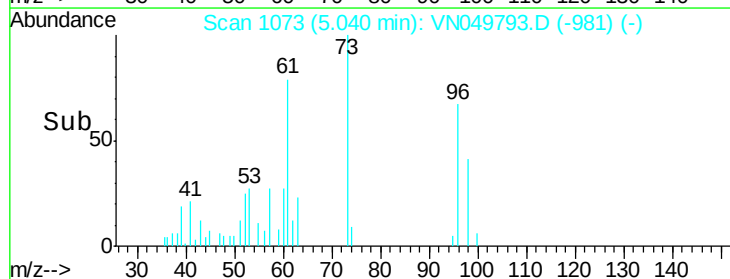
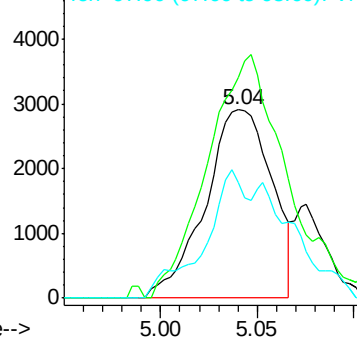
98 61.2 51.1 76.7

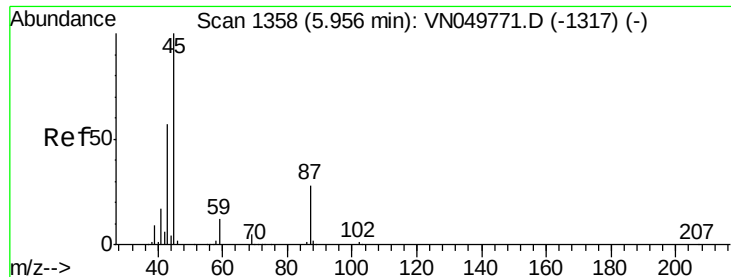


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

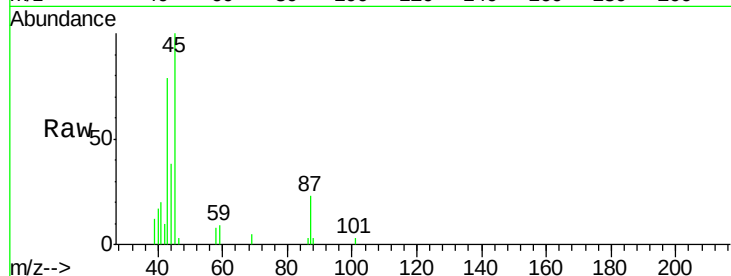




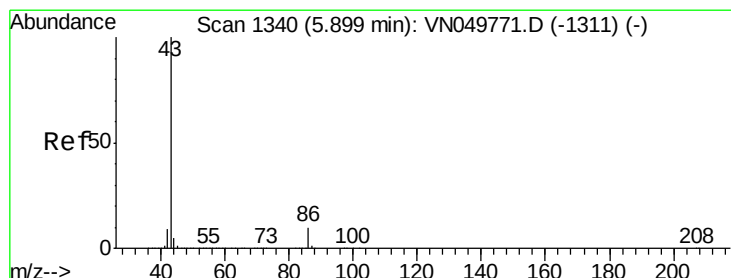
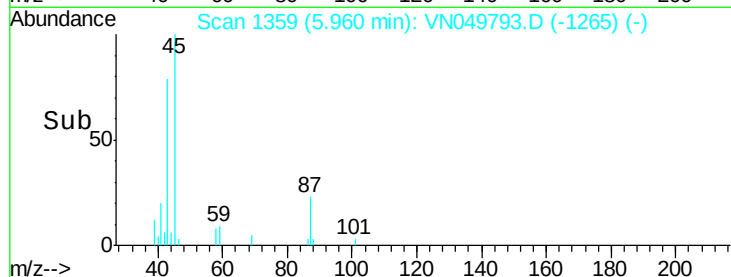
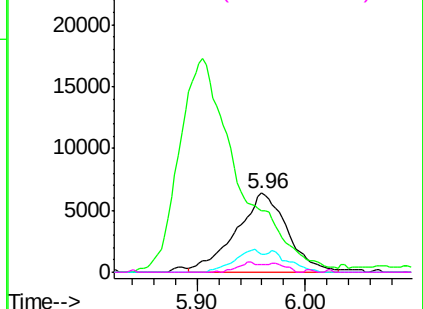
#22
Diisopropyl ether
Concen: 0.55 ug/l
RT: 5.96 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

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

Tot Ion:	45	Resp:	21177
Ion	Ratio	Lower	Upper
45	100		
43	75.1	48.1	72.1#
87	23.7	22.6	34.0
59	9.6	9.2	13.8

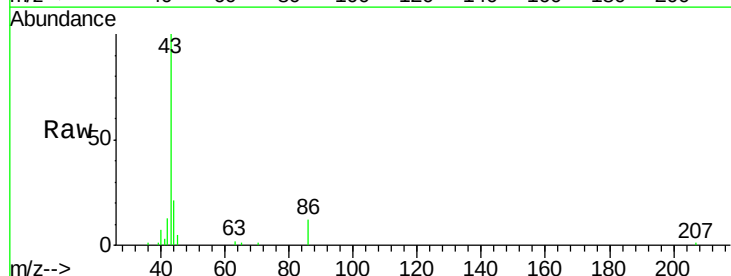


Abundance Ion 45.00 (44.70 to 45.70): VN049771.D (-1317) (-)
Ion 43.00 (42.70 to 43.70): VN049793.D (-1265) (-)
Ion 87.00 (86.70 to 87.70): VN049793.D (-1265) (-)
Ion 59.00 (58.70 to 59.70): VN049793.D (-1265) (-)

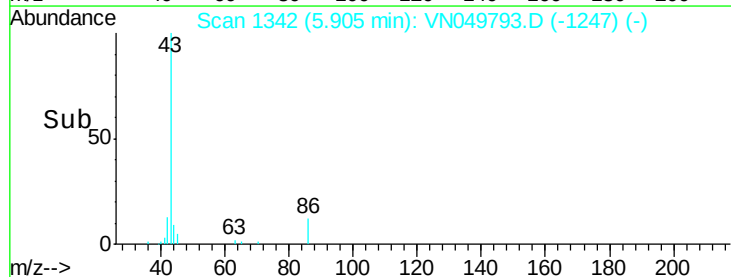
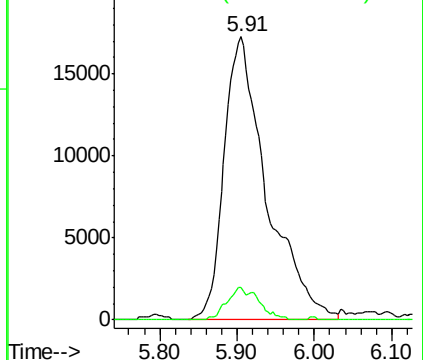


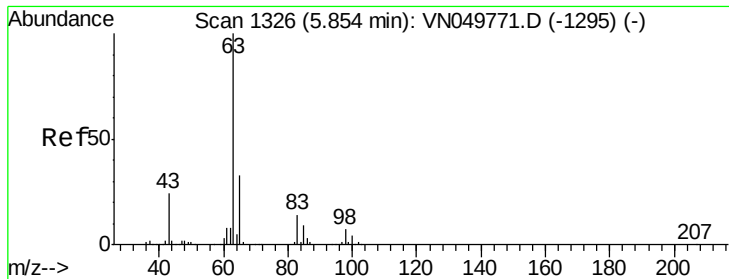
#23
Vinyl Acetate
Concen: 2.55 ug/l
RT: 5.91 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion:	43	Resp:	66148
Ion	Ratio	Lower	Upper
43	100		
86	11.6	8.4	12.6



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-1311) (-)
Ion 86.00 (85.70 to 86.70): VN049793.D (-1247) (-)





#24

1,1-Dichloroethane

Concen: 0.61 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.01 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

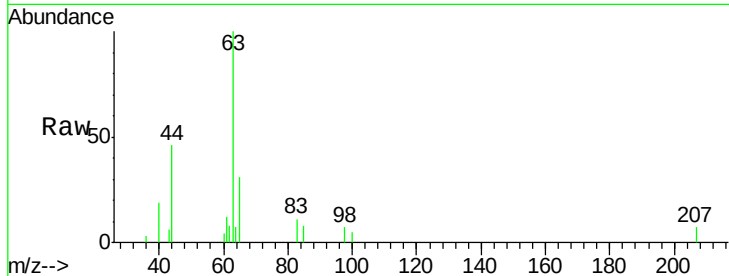
Tot Ion: 63 Resp: 14959

Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

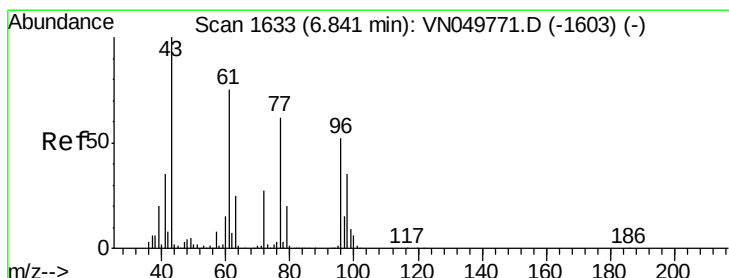
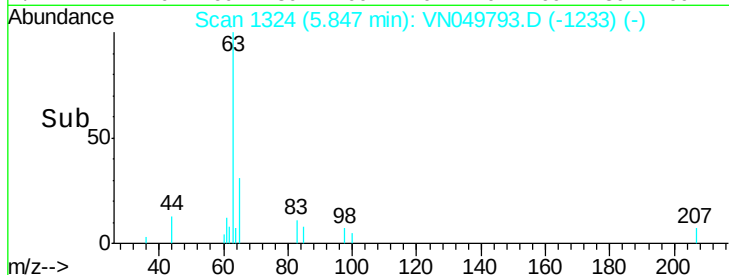
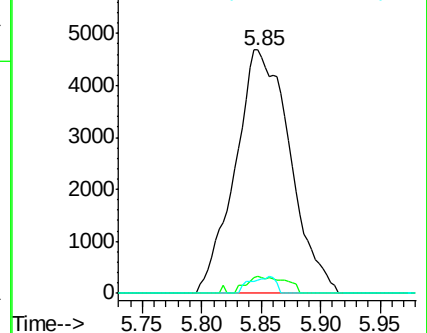
100 5.3 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN049771.D (-1295) (-)

Ion 97.90 (97.60 to 98.60): VN049771.D (-1295) (-)

Ion 99.90 (99.60 to 100.60): VN049771.D (-1295) (-)



#25

2-Butanone

Concen: 2.97 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049793.D

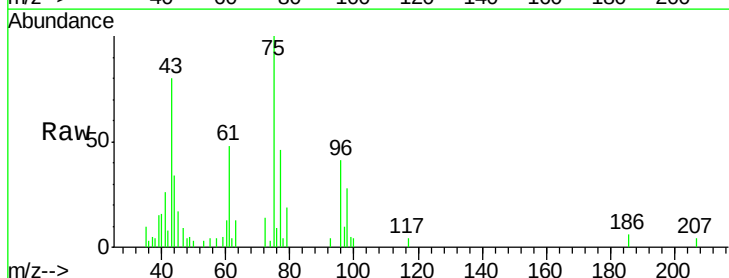
Acq: 13 Jul 2018 13:32

Tgt Ion: 43 Resp: 14402

Ion Ratio Lower Upper

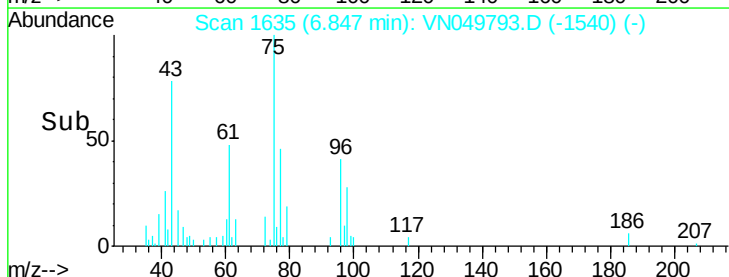
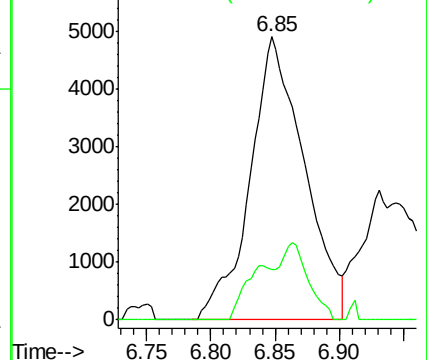
43 100

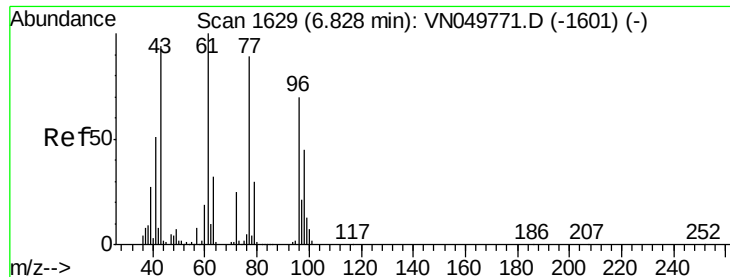
72 17.8 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-1603) (-)

Ion 72.00 (71.70 to 72.70): VN049771.D (-1603) (-)

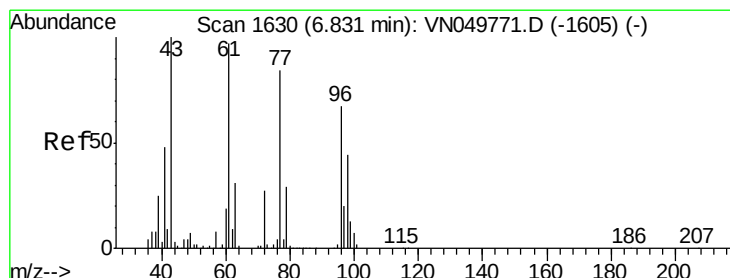
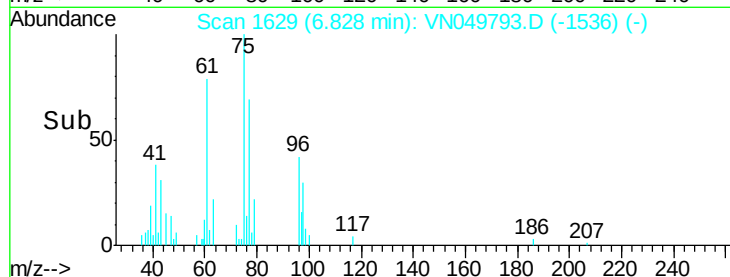
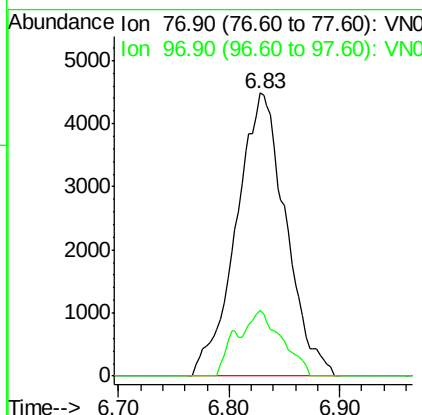
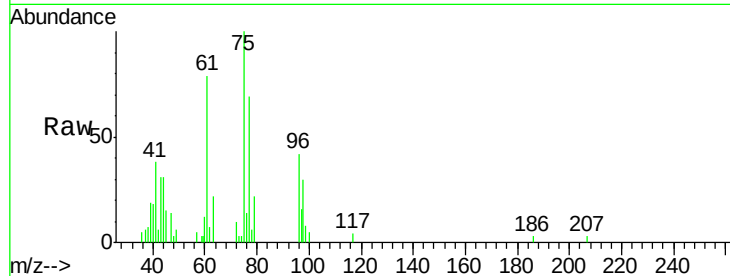




#26
 2,2-Dichloropropane
 Concen: 0.69 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

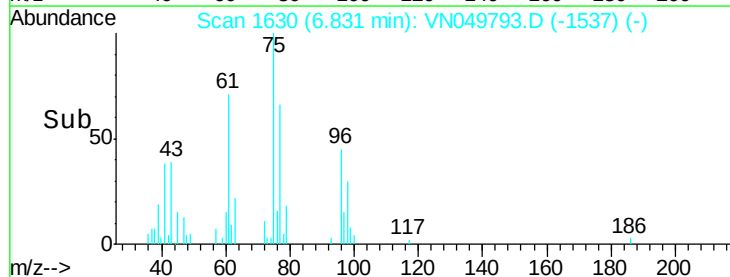
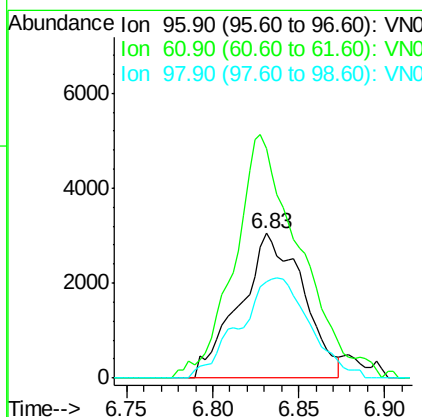
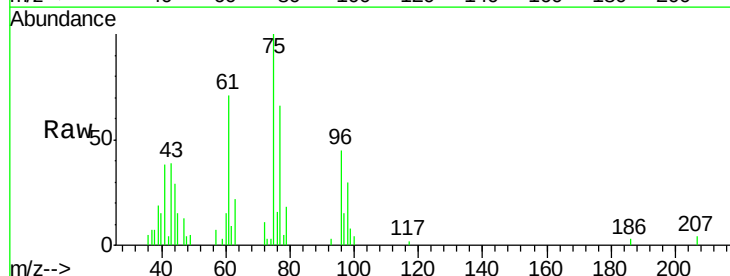
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

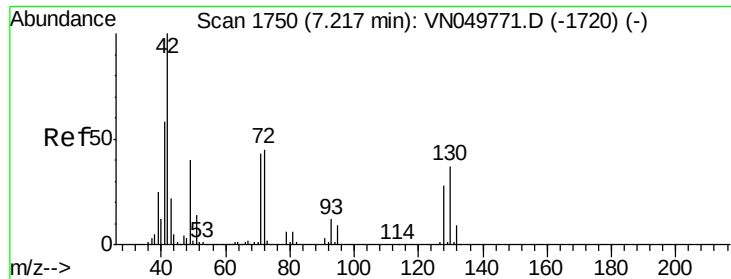
Tot Ion: 77 Resp: 13928
 Ion Ratio Lower Upper
 77 100
 97 15.9 11.9 35.5



#27
 cis-1,2-Dichloroethene
 Concen: 0.54 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion: 96 Resp: 7835
 Ion Ratio Lower Upper
 96 100
 61 173.2 0.0 289.0
 98 76.5 0.0 130.2

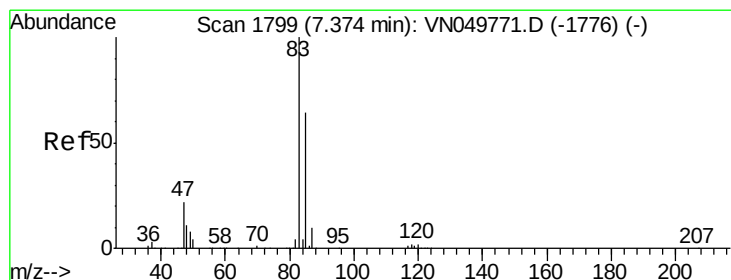
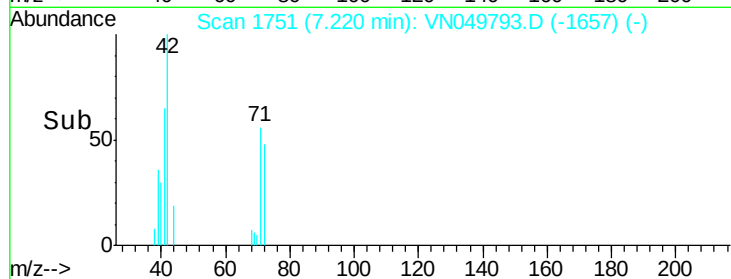
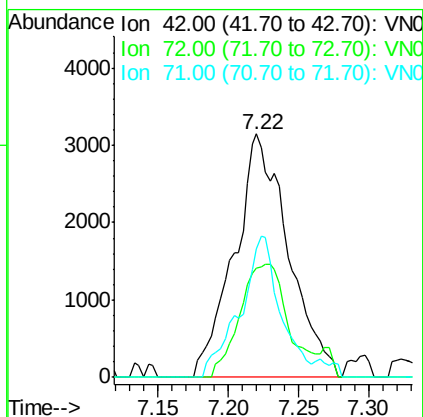
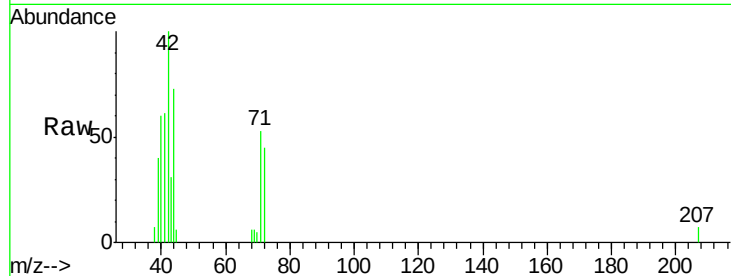




#29
Tetrahydrofuran
Concen: 2.76 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

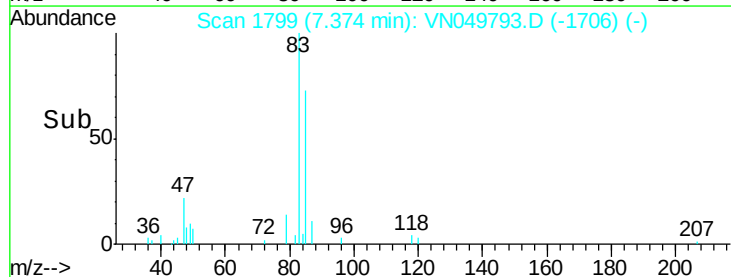
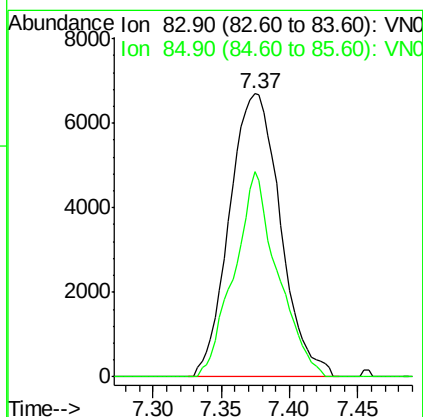
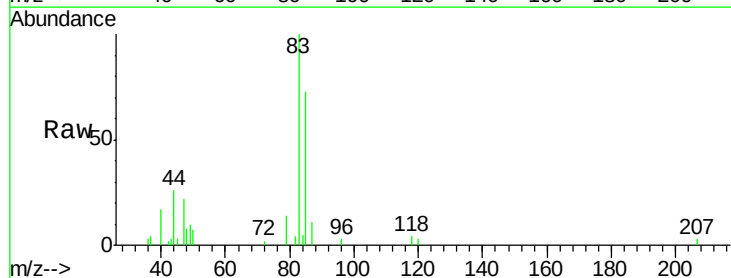
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

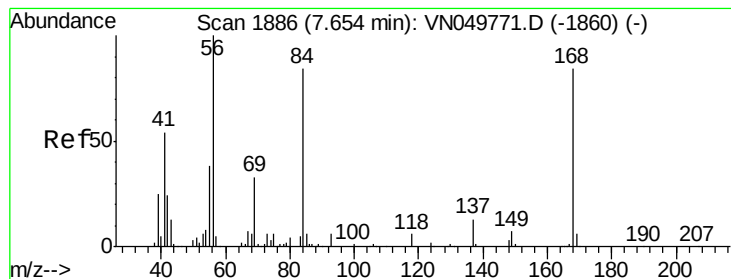
Tot Ion: 42 Resp: 8406
Ion Ratio Lower Upper
42 100
72 42.3 35.6 53.4
71 43.3 34.0 51.0



#30
Chloroform
Concen: 0.69 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 83 Resp: 17398
Ion Ratio Lower Upper
83 100
85 72.6 51.4 77.2





#31

Cyclohexane

Concen: 1.27 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

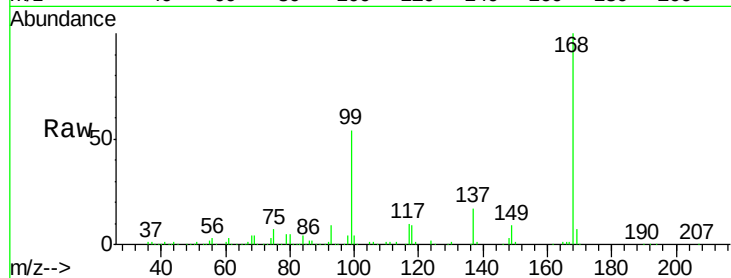
Tot Ion: 56 Resp: 29382

Ion Ratio Lower Upper

56 100

69 125.9 26.6 40.0#

84 109.5 69.0 103.6#

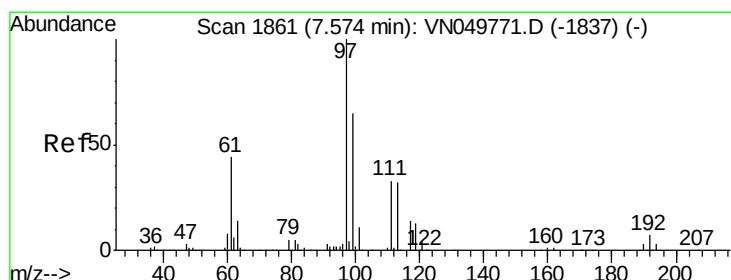
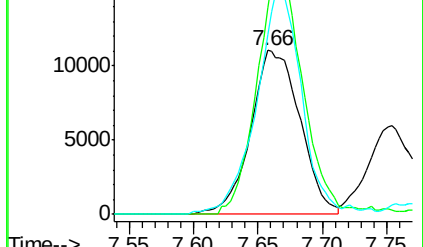
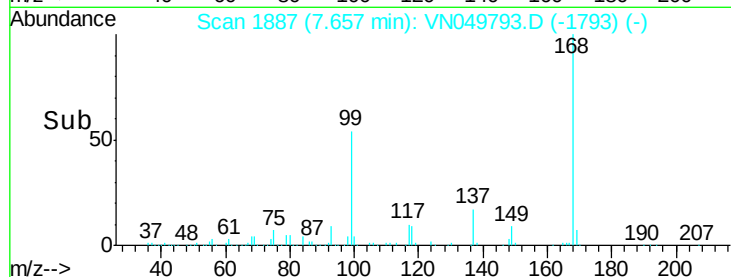


Abundance Ion 56.00 (55.70 to 56.70): VN049793.D (-1793) (-)

Ion 69.00 (68.70 to 69.70): VN049793.D (-1793) (-)

Ion 84.00 (83.70 to 84.70): VN049793.D (-1793) (-)

Time-->



#32

1,1,1-Trichloroethane

Concen: 0.64 ug/l

RT: 7.57 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

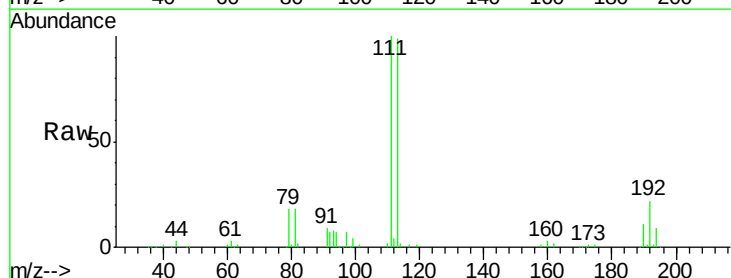
Tgt Ion: 97 Resp: 13636

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

61 47.1 35.5 53.3

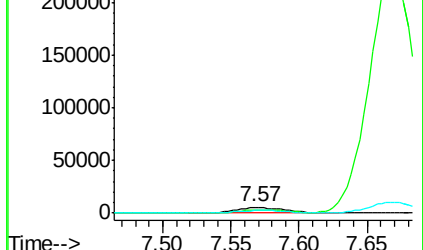
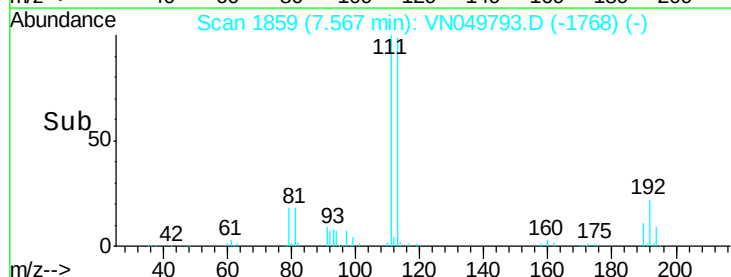


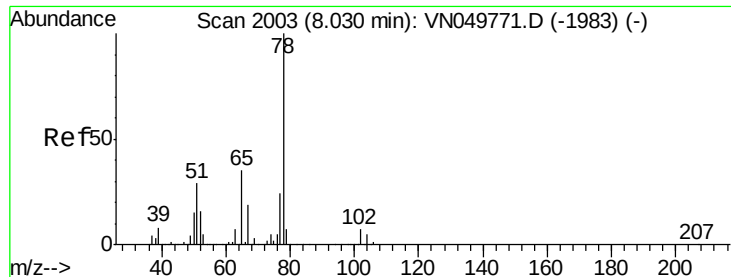
Abundance Ion 96.90 (96.60 to 97.60): VN049793.D (-1768) (-)

Ion 98.90 (98.60 to 99.60): VN049793.D (-1768) (-)

Ion 60.90 (60.60 to 61.60): VN049793.D (-1768) (-)

Time-->

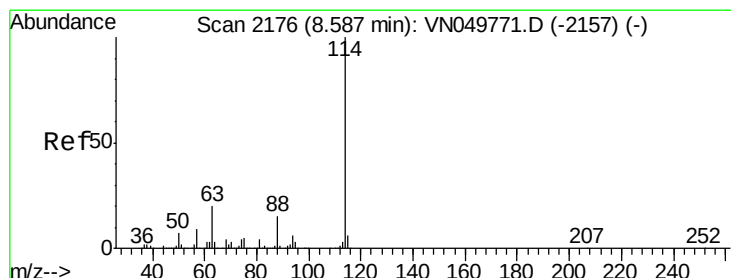
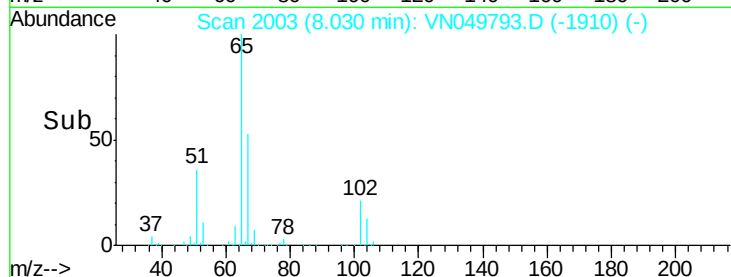
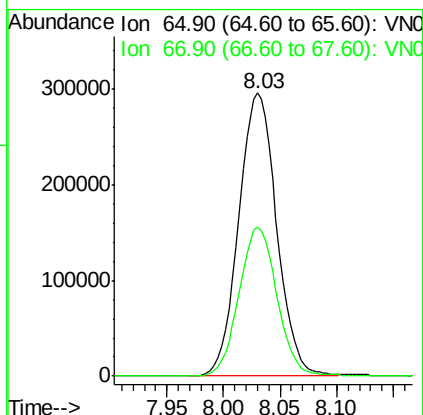
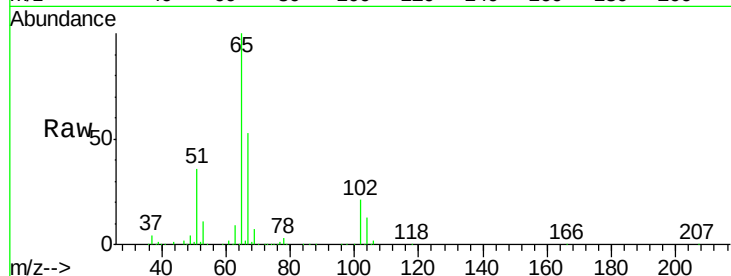




#33
 1,2-Dichloroethane-d4
 Concen: 55.51 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

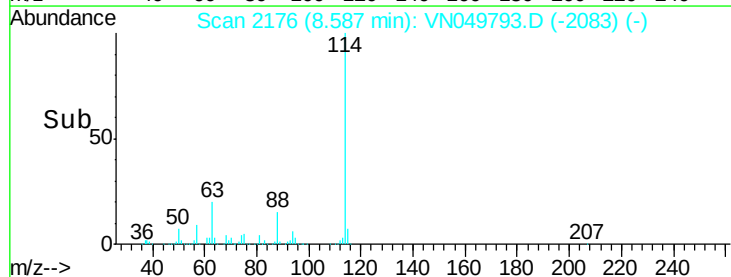
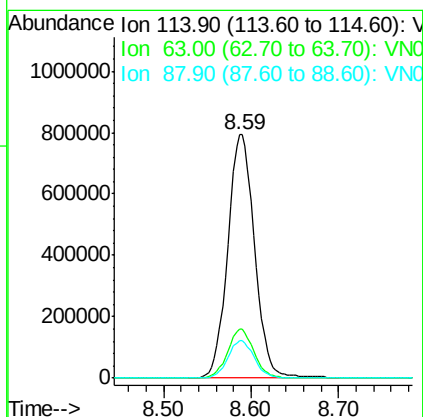
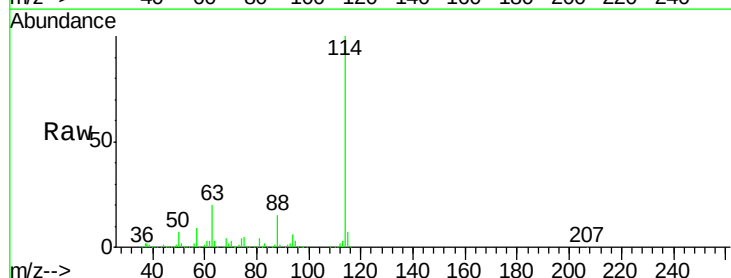
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

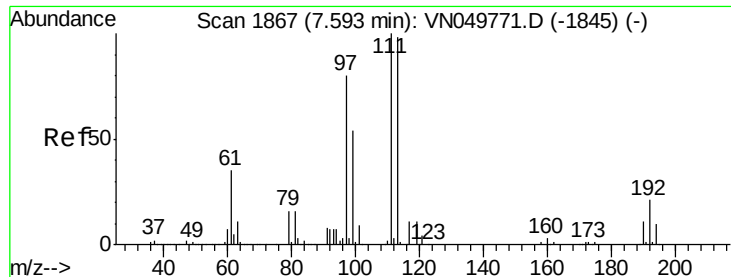
Tot Ion: 65 Resp: 690931
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion: 114 Resp: 1688634
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.4 0.0 30.6

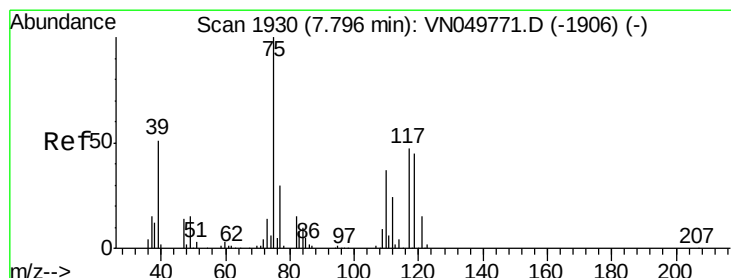
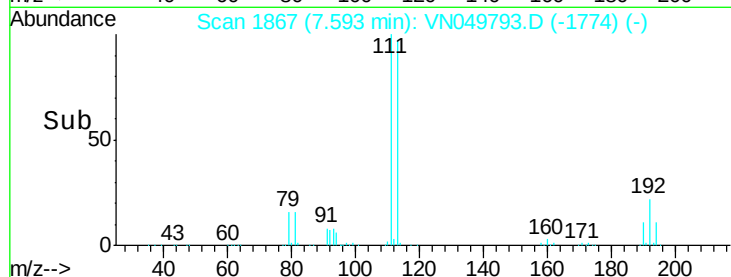
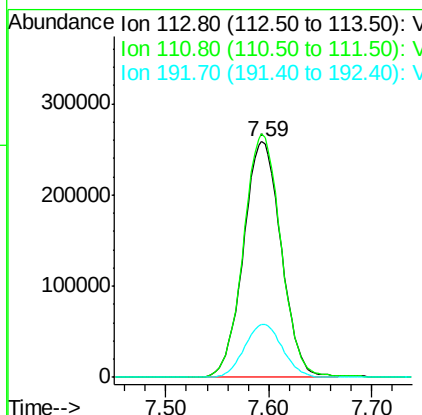
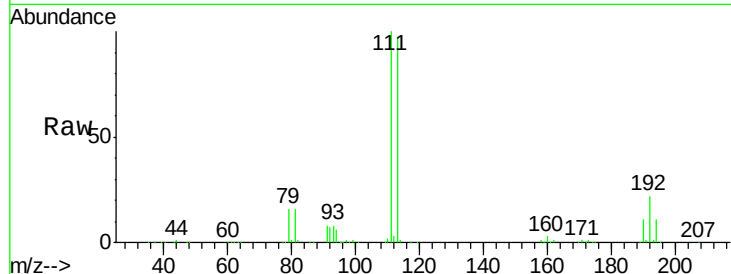




#35
 Dibromofluoromethane
 Concen: 51.62 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

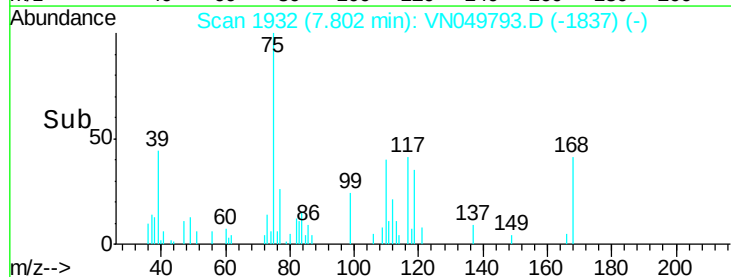
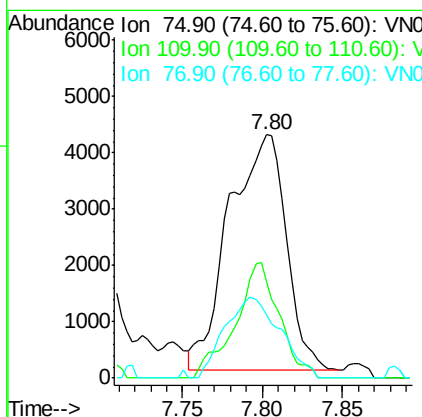
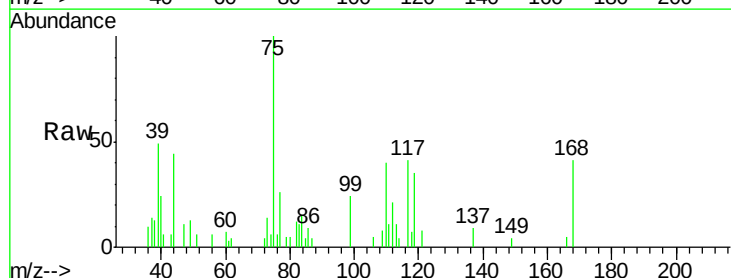
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

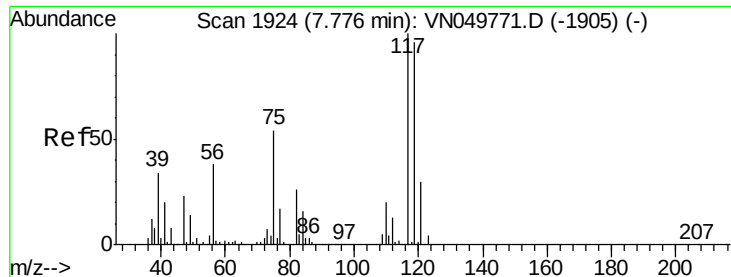
Tot Ion:113 Resp: 657061
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.8 122.8
 192 22.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 0.52 ug/l
 RT: 7.80 min Scan# 1932
 Delta R.T. 0.01 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion: 75 Resp: 10164
 Ion Ratio Lower Upper
 75 100
 110 37.7 18.1 54.4
 77 33.2 24.9 37.3

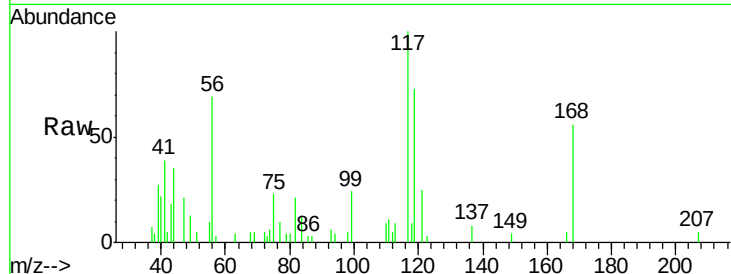




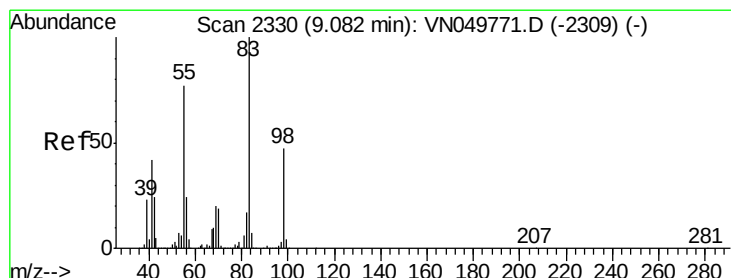
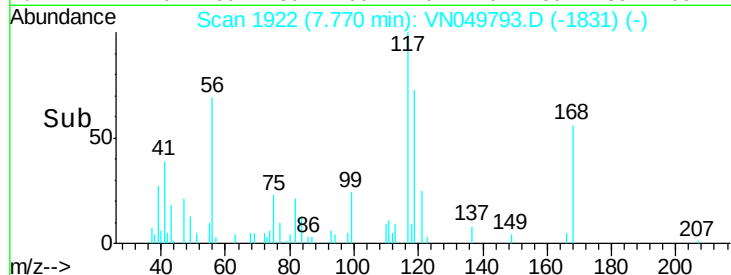
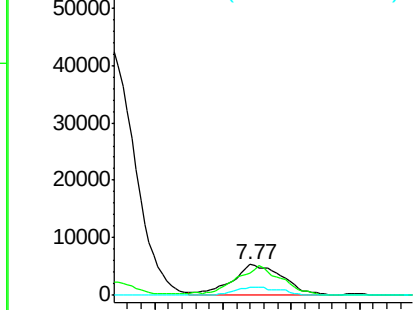
#38
Carbon Tetrachloride
Concen: 0.68 ug/l
RT: 7.77 min Scan# 1922
Delta R.T. -0.01 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

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

Tot Ion:117 Resp: 13811
Ion Ratio Lower Upper
117 100
119 73.3 77.2 115.8#
121 25.0 25.0 37.6#

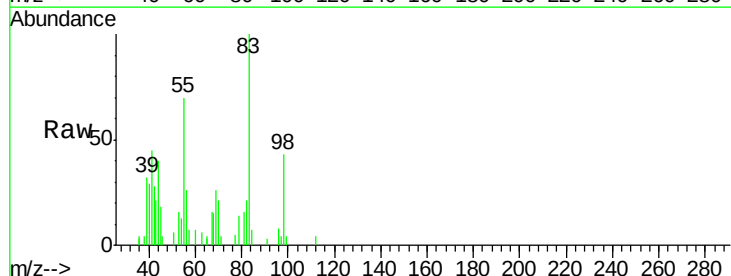


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

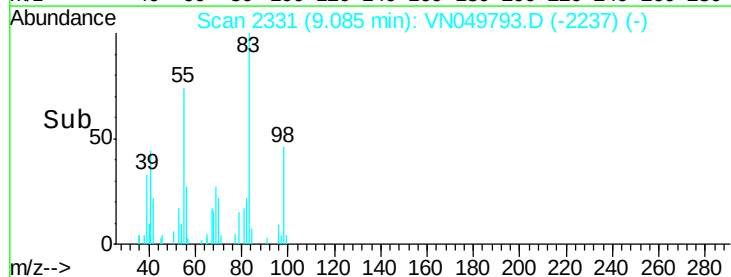
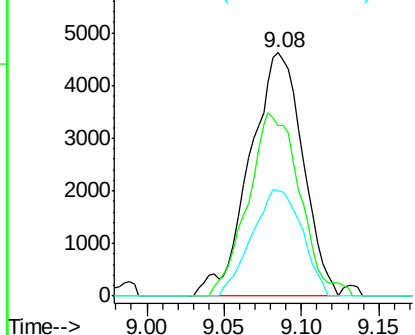


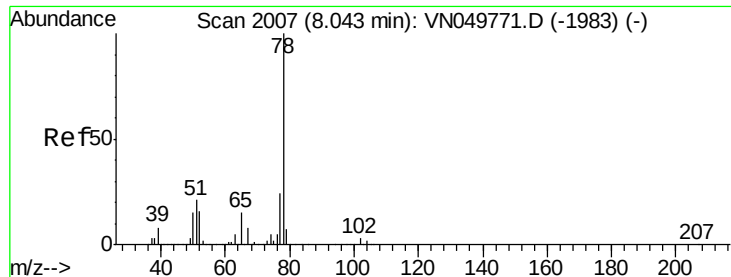
#39
Methylcyclohexane
Concen: 0.54 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 83 Resp: 10989
Ion Ratio Lower Upper
83 100
55 69.9 59.7 89.5
98 43.4 36.5 54.7



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0





#40

Benzene

Concen: 0.58 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

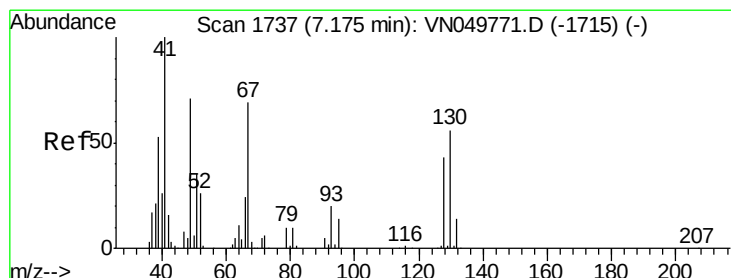
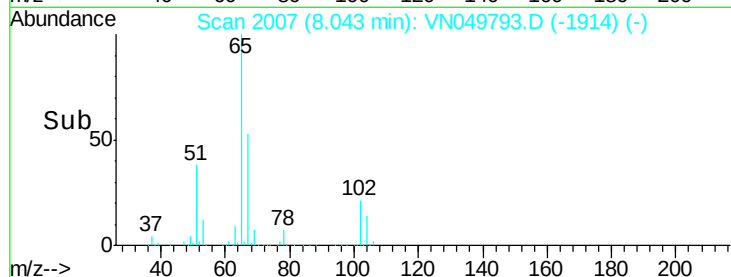
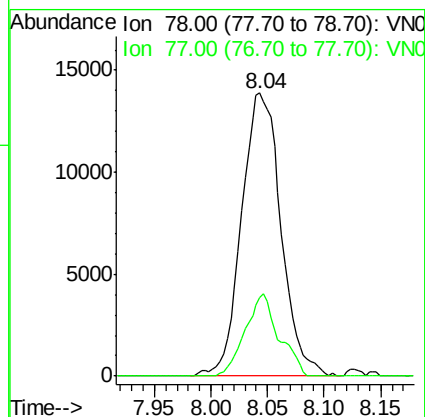
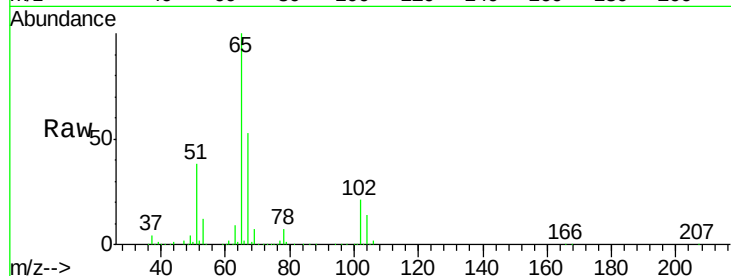
MDL-WATER-03-QT3-2018

Tot Ion: 78 Resp: 33633

Ion Ratio Lower Upper

78 100

77 27.8 19.0 28.4



#41

Methacrylonitrile

Concen: 0.42 ug/l

RT: 7.18 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Tgt Ion: 41 Resp: 2758

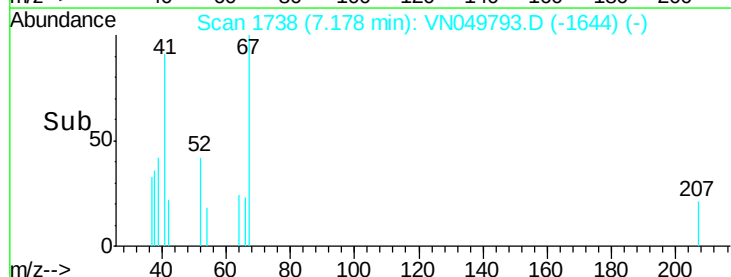
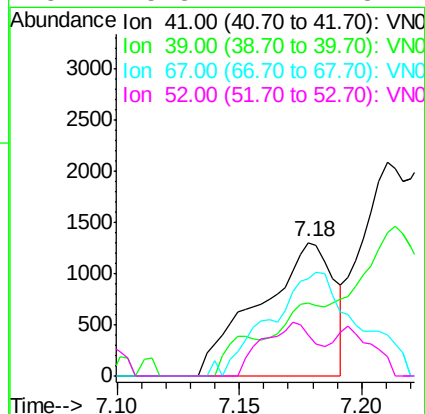
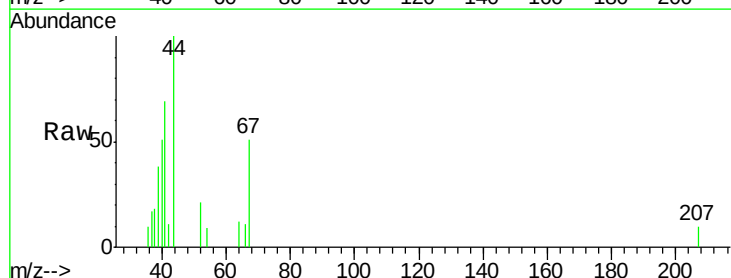
Ion Ratio Lower Upper

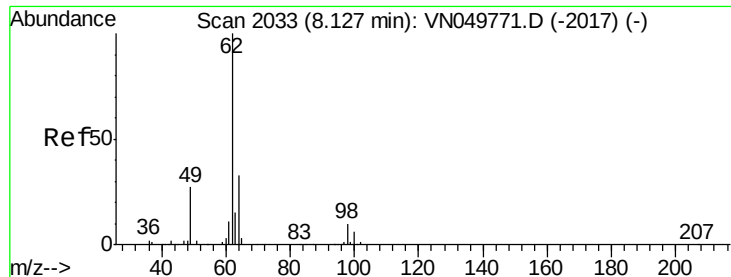
41 100

39 16.1 45.4 68.2#

67 91.7 65.4 98.0

52 28.3 24.7 37.1

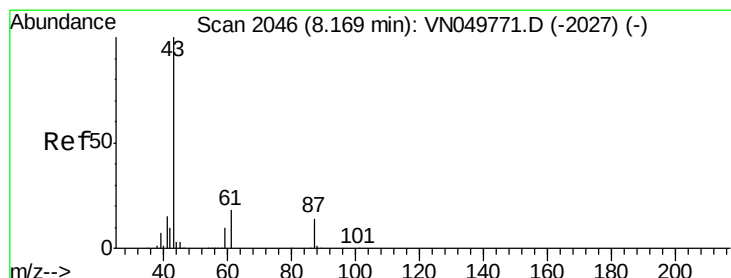
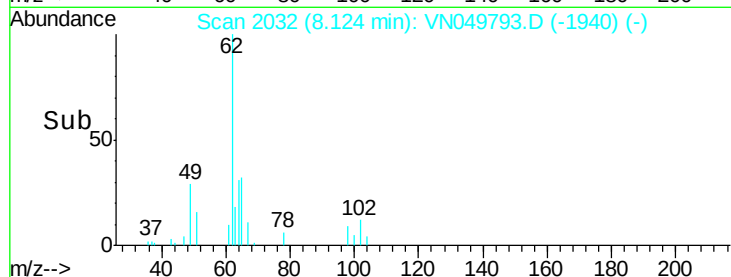
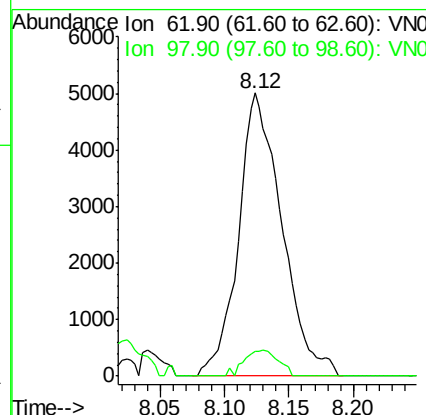
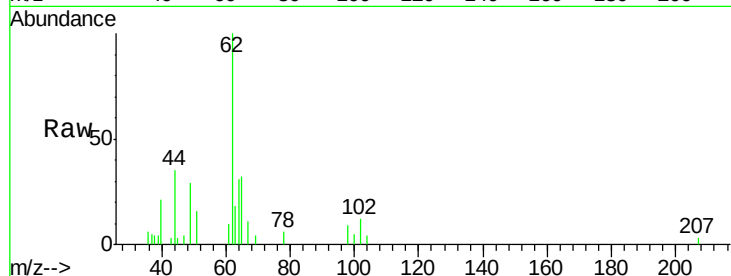




#42
1,2-Dichloroethane
Concen: 0.62 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

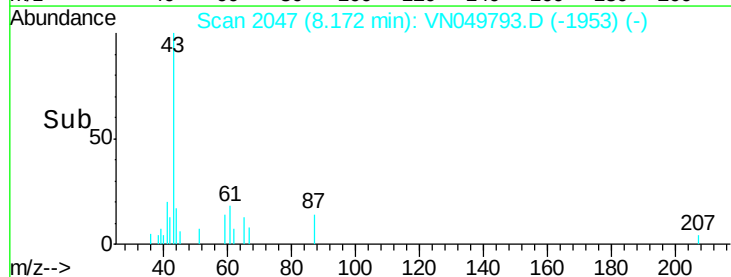
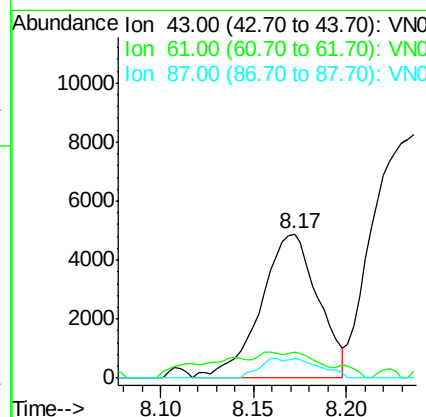
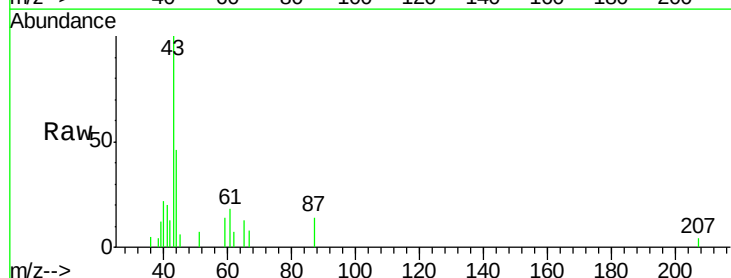
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

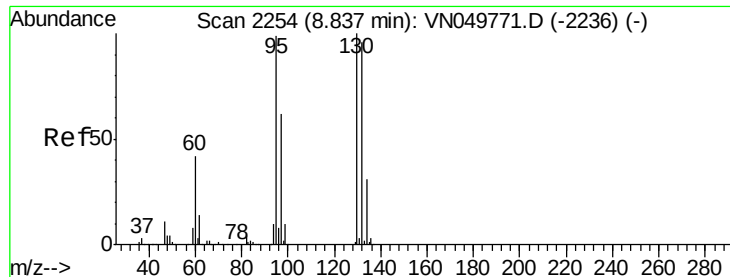
Tot Ion: 62 Resp: 11734
Ion Ratio Lower Upper
62 100
98 7.2 0.0 19.0



#43
Isopropyl Acetate
Concen: 0.50 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 43 Resp: 10447
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
87 5.9 10.0 15.0#





#44

Trichloroethene

Concen: 0.55 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

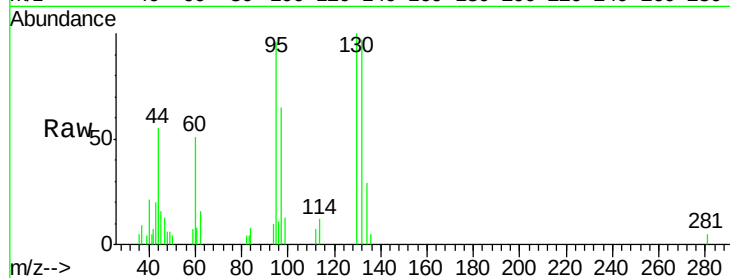
MDL-WATER-03-QT3-2018

Tot Ion:130 Resp: 8589

Ion Ratio Lower Upper

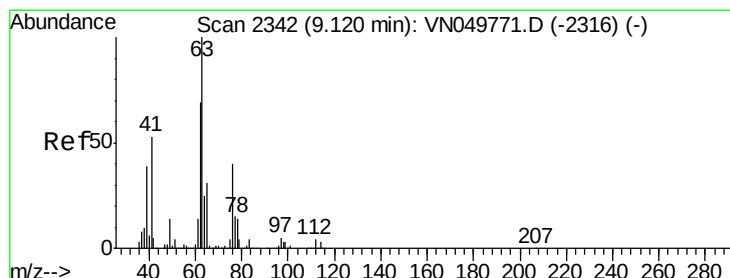
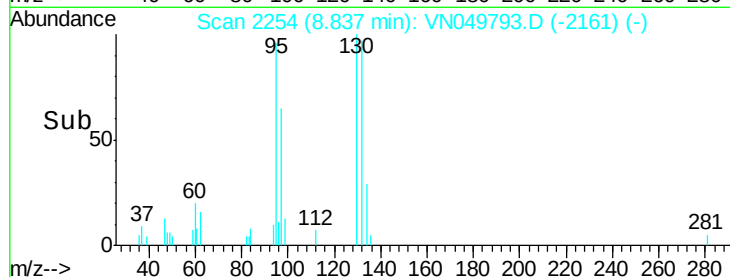
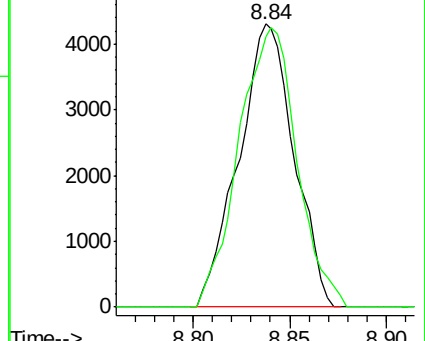
130 100

95 95.7 0.0 192.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#45

1,2-Dichloropropane

Concen: 0.58 ug/l

RT: 9.13 min Scan# 2344

Delta R.T. 0.01 min

Lab File: VN049793.D

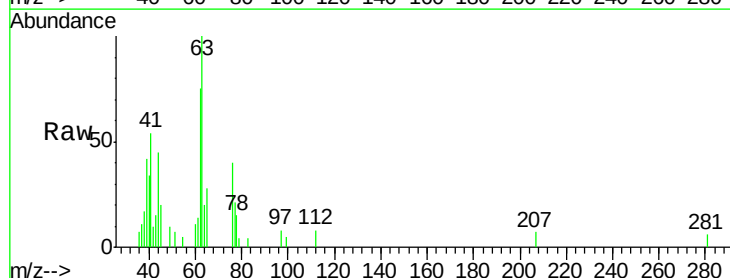
Acq: 13 Jul 2018 13:32

Tgt Ion: 63 Resp: 9015

Ion Ratio Lower Upper

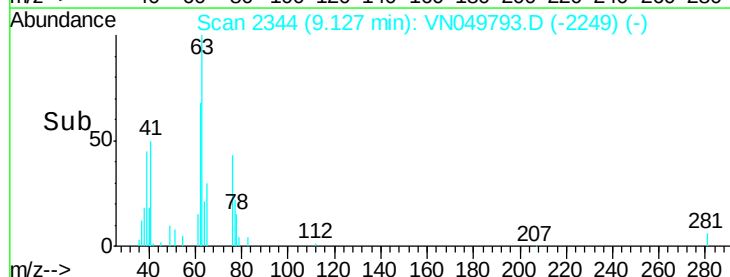
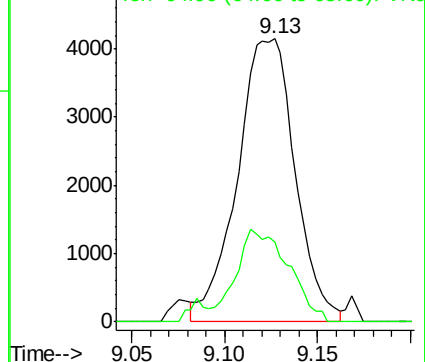
63 100

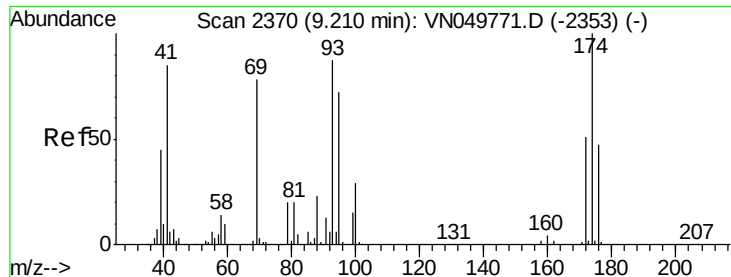
65 29.2 24.7 37.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#46

Dibromomethane

Concen: 0.55 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

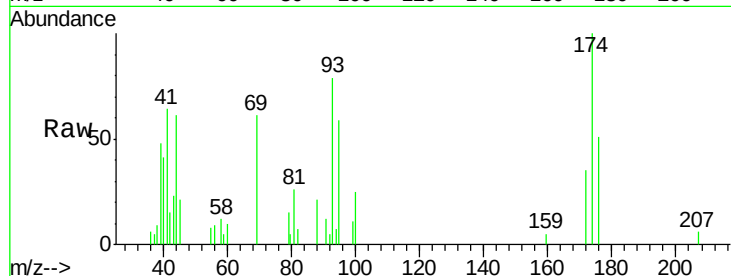
Tot Ion: 93 Resp: 5080

Ion Ratio Lower Upper

93 100

95 86.7 67.9 101.9

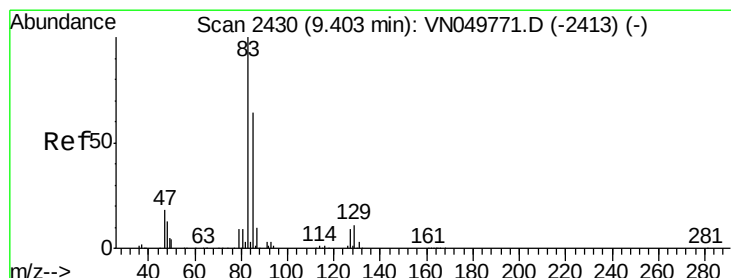
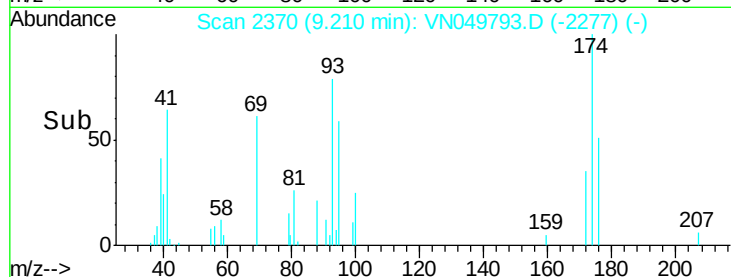
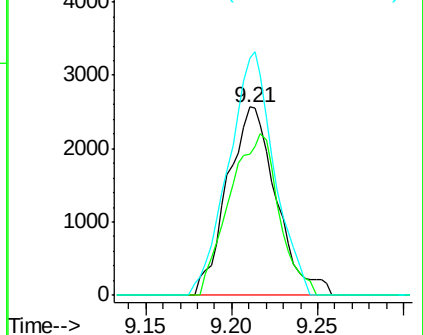
174 120.0 89.4 134.0



Abundance Ion 92.80 (92.50 to 93.50): VN049793.D (-2277) (-)

Ion 94.80 (94.50 to 95.50): VN049793.D (-2277) (-)

Ion 173.70 (173.40 to 174.40): VN049793.D (-2277) (-)



#47

Bromodichloromethane

Concen: 0.59 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

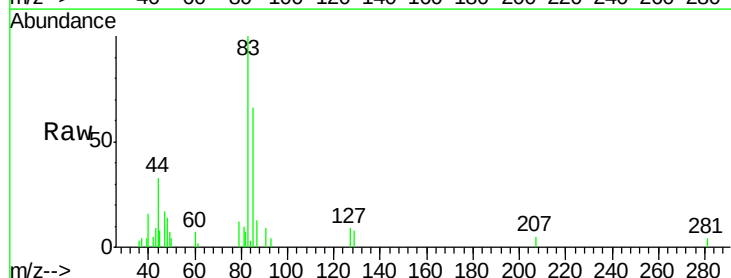
Tgt Ion: 83 Resp: 11974

Ion Ratio Lower Upper

83 100

85 66.3 50.5 75.7

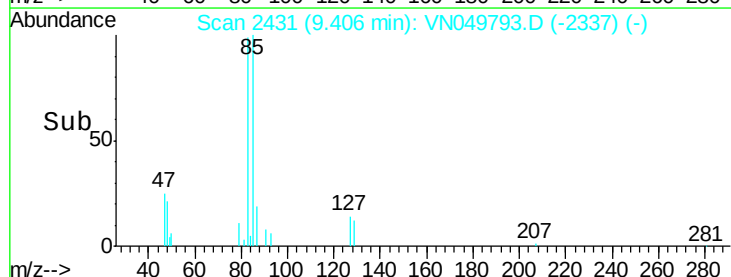
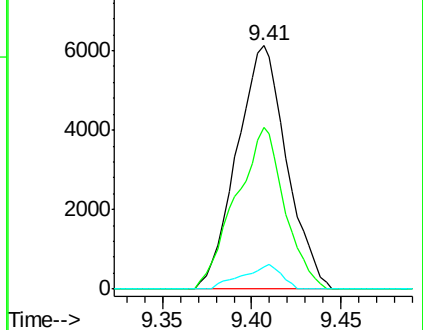
127 9.3 6.8 10.2

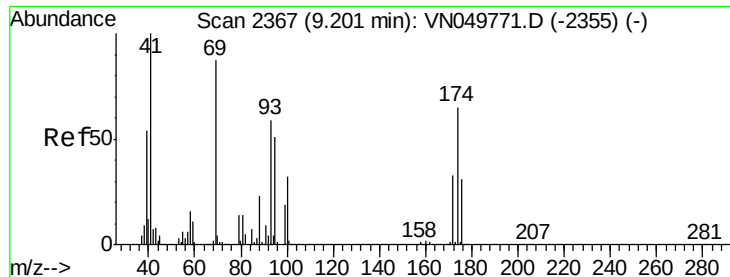


Abundance Ion 82.90 (82.60 to 83.60): VN049793.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049793.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049793.D (-2337) (-)

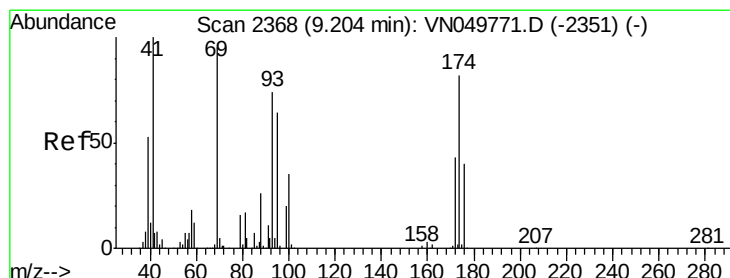
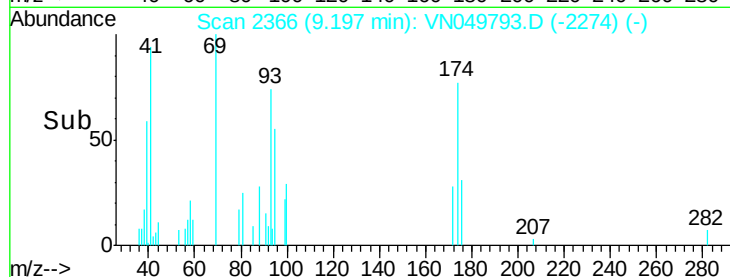
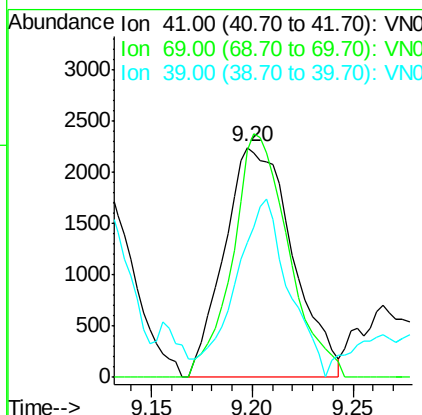
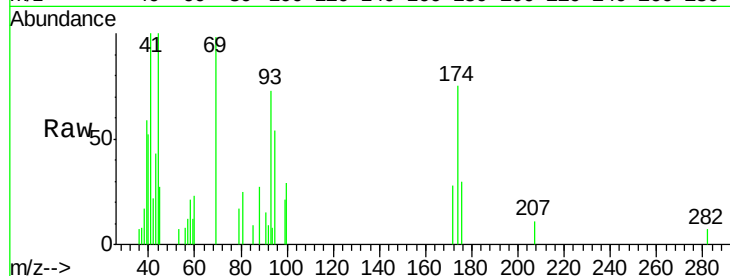




#48
Methvl methacrylate
Concen: 0.51 ug/l
RT: 9.20 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

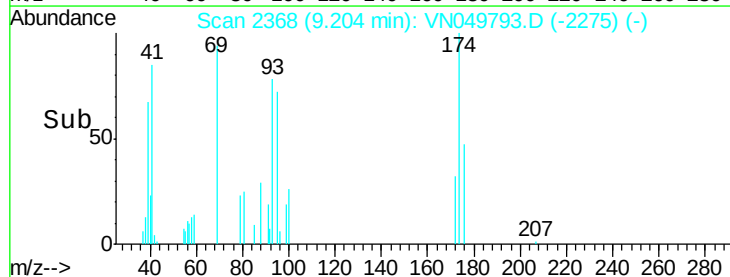
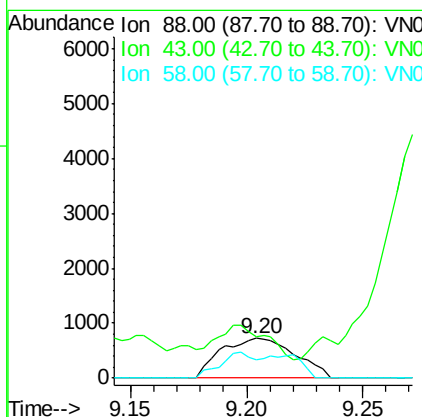
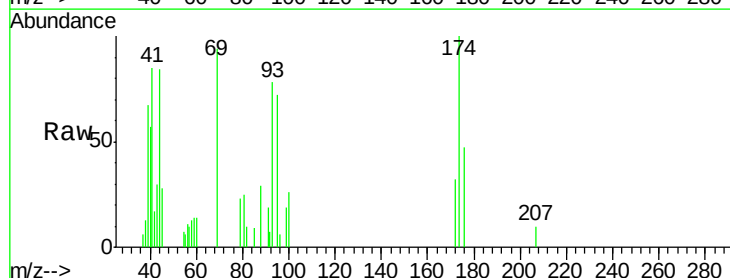
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

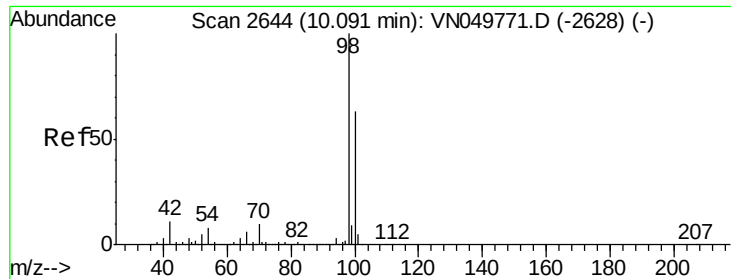
Tot Ion: 41 Resp: 5297
Ion Ratio Lower Upper
41 100
69 86.9 71.5 107.3
39 60.0 44.7 67.1



#49
1,4-Dioxane
Concen: 11.82 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 88 Resp: 1603
Ion Ratio Lower Upper
88 100
43 58.8 25.1 37.7#
58 29.6 52.5 78.7#





#50

Toluene-d8

Concen: 45.30 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

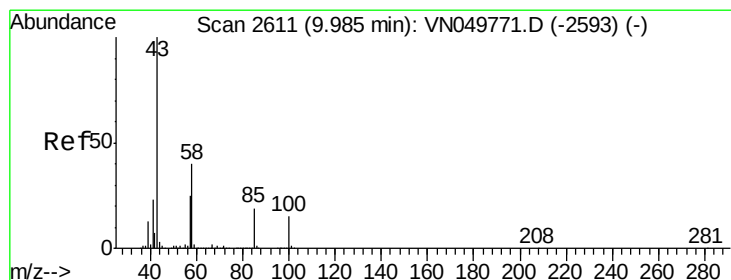
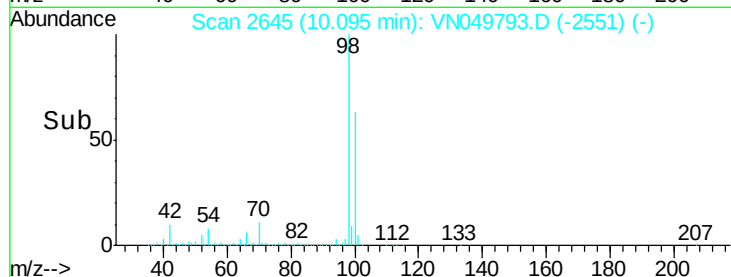
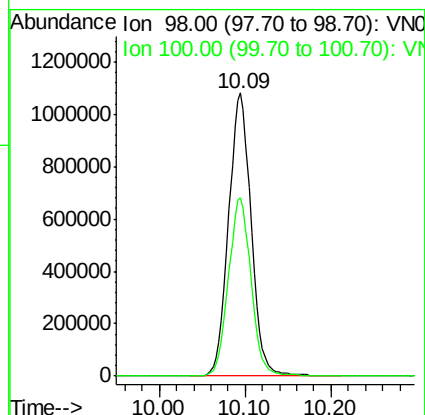
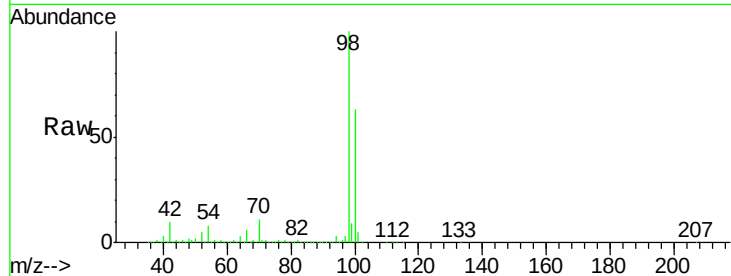
MDL-WATER-03-QT3-2018

Tot Ion: 98 Resp: 1973867

Ion Ratio Lower Upper

98 100

100 63.2 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 2.34 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049793.D

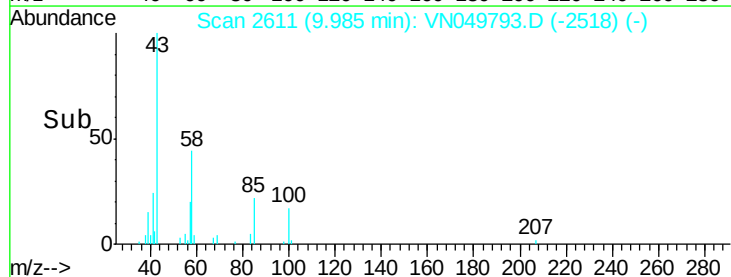
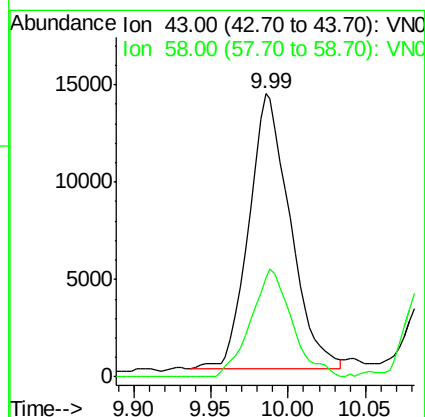
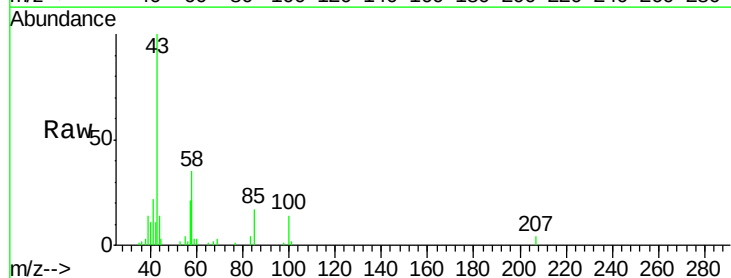
Acq: 13 Jul 2018 13:32

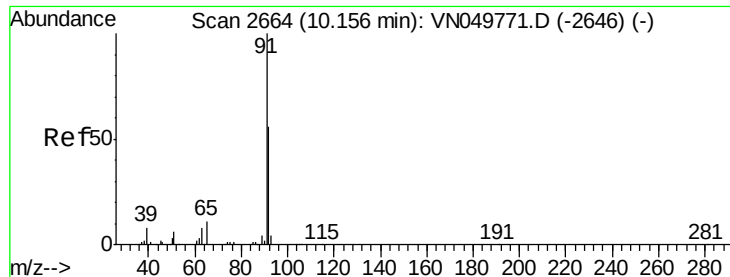
Tgt Ion: 43 Resp: 26360

Ion Ratio Lower Upper

43 100

58 38.8 31.8 47.8





#52

Toluene

Concen: 0.57 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

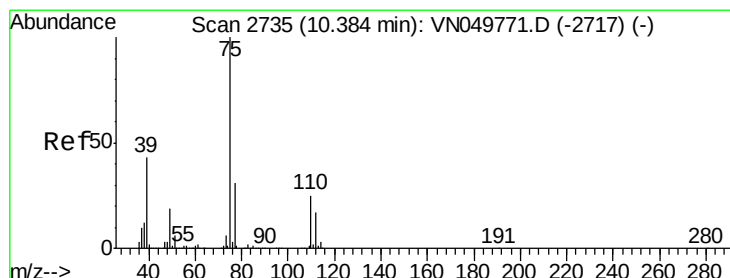
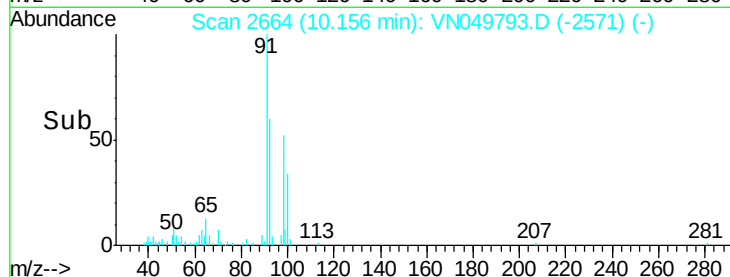
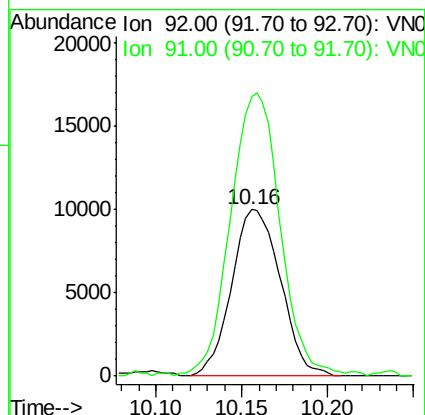
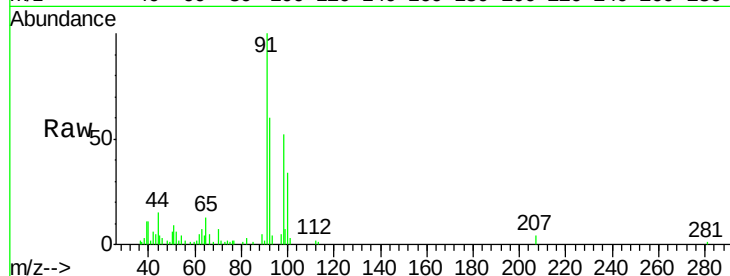
MDL-WATER-03-QT3-2018

Tot Ion: 92 Resp: 19807

Ion Ratio Lower Upper

92 100

91 172.6 140.1 210.1



#53

t-1,3-Dichloropropene

Concen: 0.44 ug/l

RT: 10.39 min Scan# 2736

Delta R.T. 0.00 min

Lab File: VN049793.D

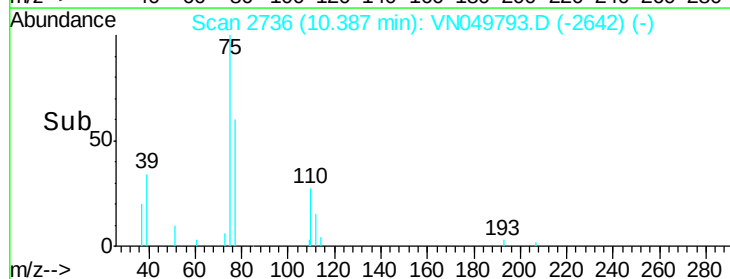
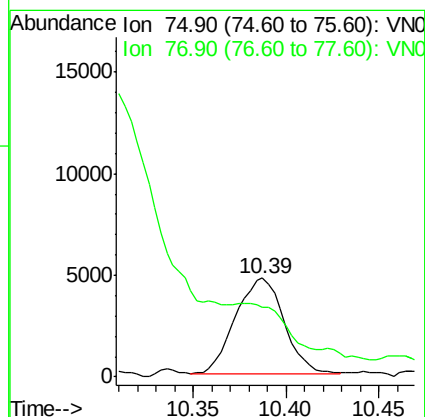
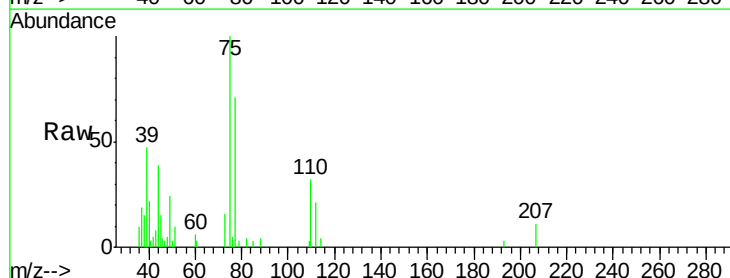
Acq: 13 Jul 2018 13:32

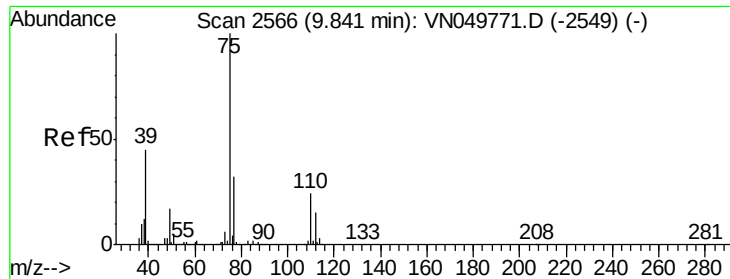
Tgt Ion: 75 Resp: 8577

Ion Ratio Lower Upper

75 100

77 49.4 25.2 37.8#





#54

cis-1,3-Dichloropropene

Concen: 0.52 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

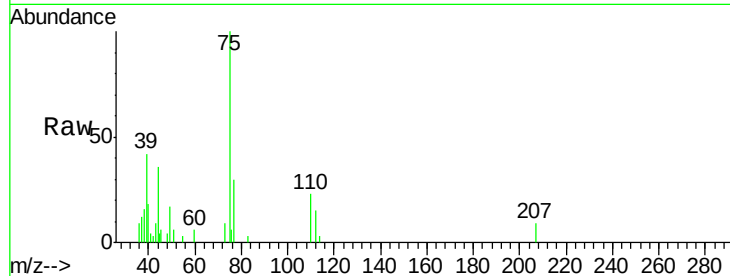
MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion: 75 Resp: 11746

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.3	37.9
39	42.2	35.5	53.3

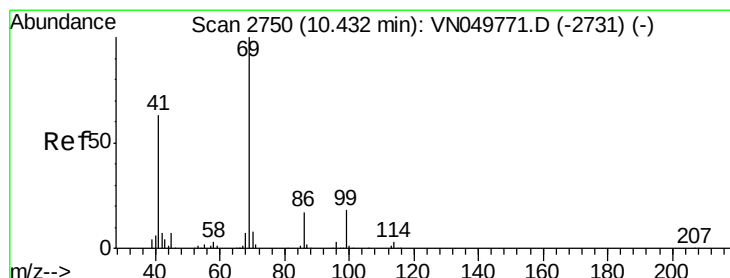
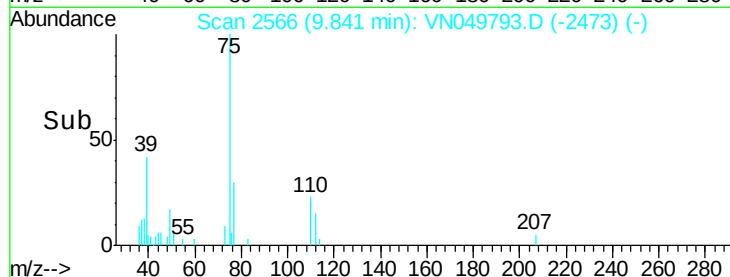
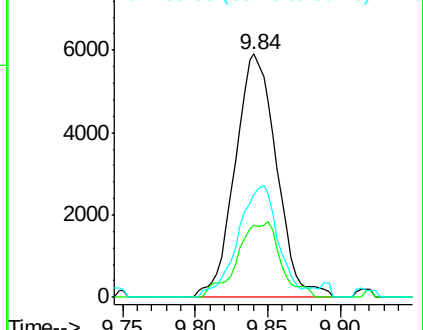


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.44 ug/l

RT: 10.44 min Scan# 2751

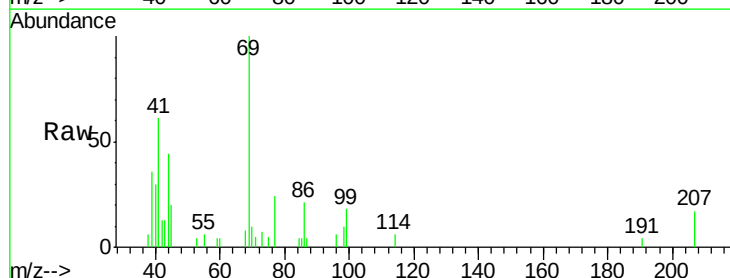
Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Tgt Ion: 69 Resp: 6920

Ion	Ratio	Lower	Upper
69	100		
41	72.8	51.6	77.4
39	37.3	25.8	38.8

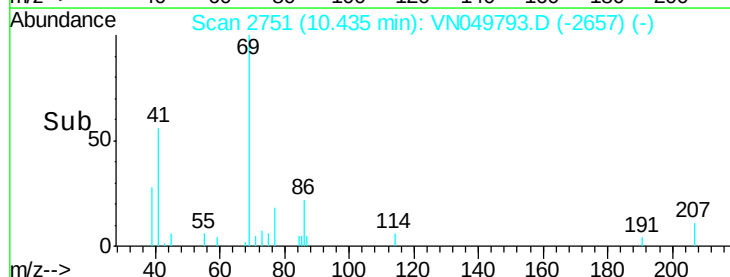
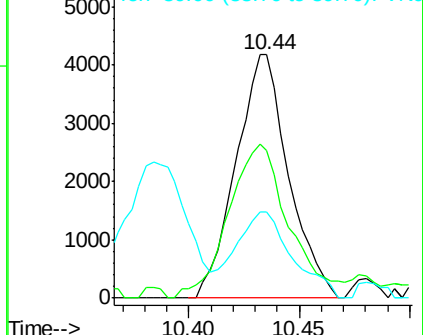


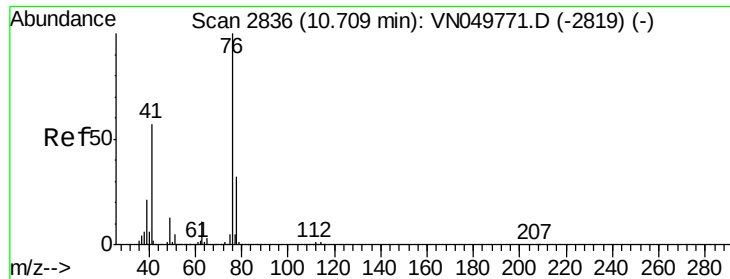
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.56 ug/l

RT: 10.71 min Scan# 2837

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

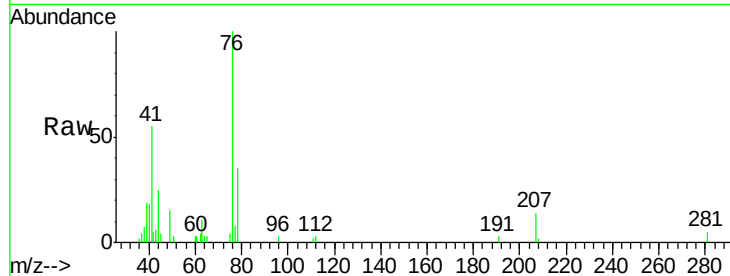
MDL-WATER-03-QT3-2018

Tot Ion: 76 Resp: 12511

Ion Ratio Lower Upper

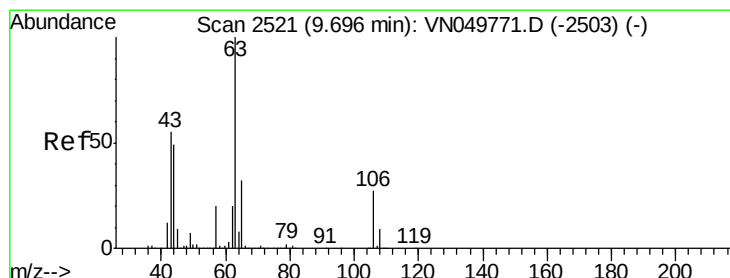
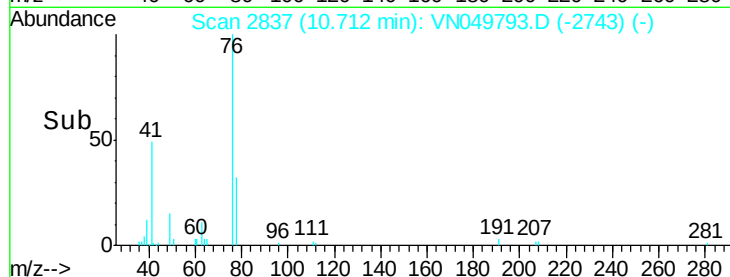
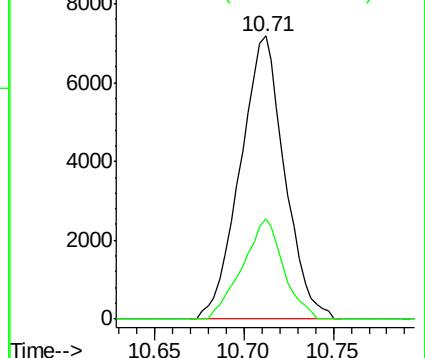
76 100

78 32.7 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 1.88 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049793.D

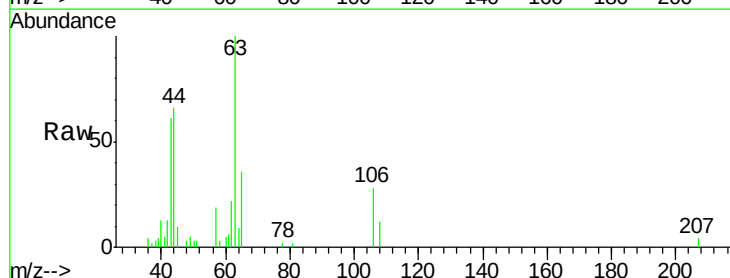
Acq: 13 Jul 2018 13:32

Tgt Ion: 63 Resp: 14192

Ion Ratio Lower Upper

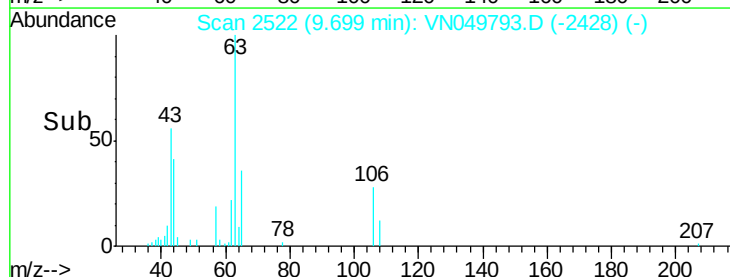
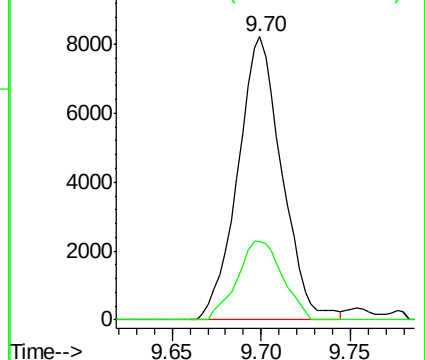
63 100

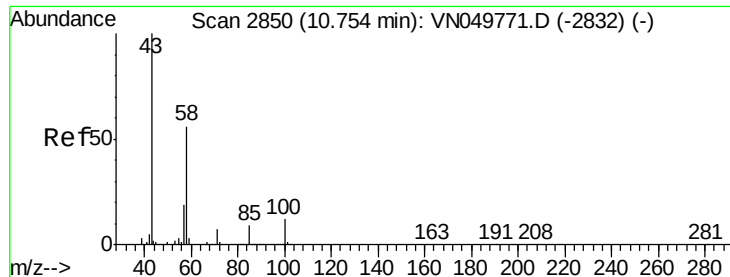
106 28.4 21.8 32.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

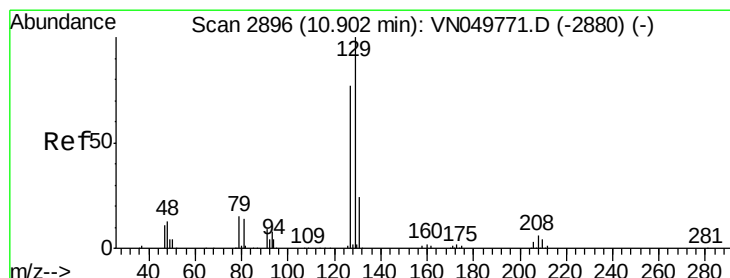
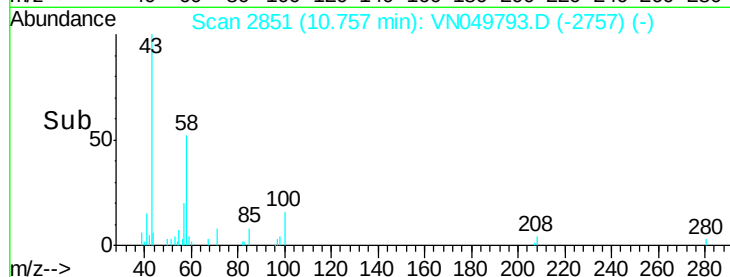
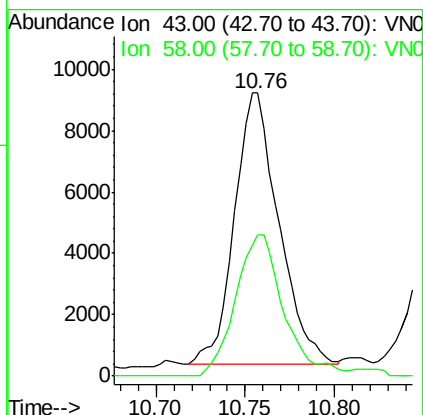
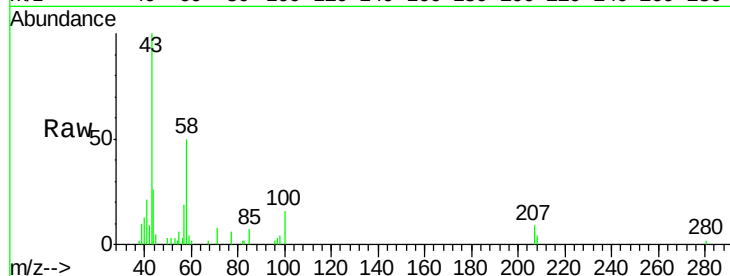




#59
2-Hexanone
Concen: 2.04 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

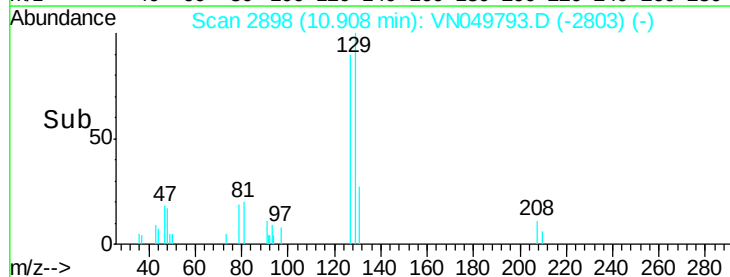
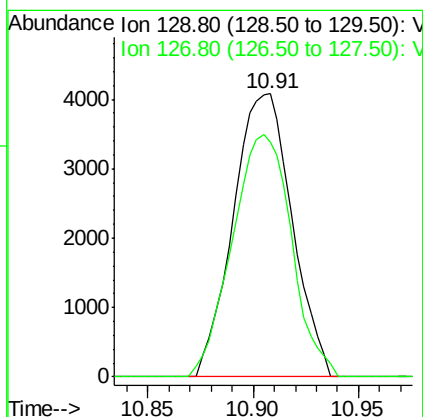
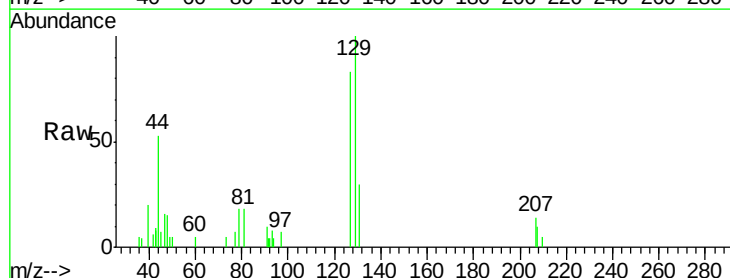
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

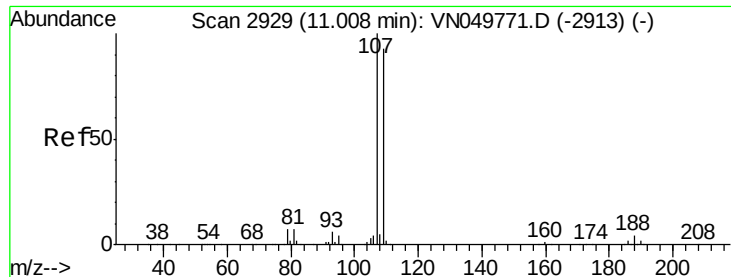
Tot Ion: 43 Resp: 15228
Ion Ratio Lower Upper
43 100
58 56.5 27.8 83.4



#60
Dibromochloromethane
Concen: 0.52 ug/l
RT: 10.91 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 129 Resp: 7907
Ion Ratio Lower Upper
129 100
127 86.2 38.3 114.9





#61

1,2-Dibromoethane

Concen: 0.46 ug/l

RT: 11.01 min Scan# 2930

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

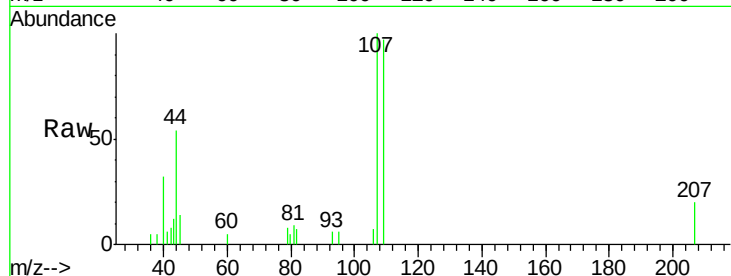
MDL-WATER-03-QT3-2018

Tot Ion:107 Resp: 5859

Ion Ratio Lower Upper

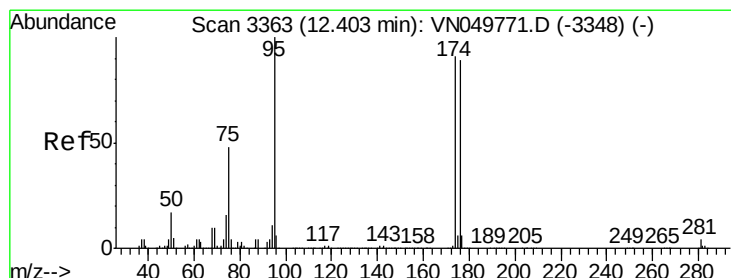
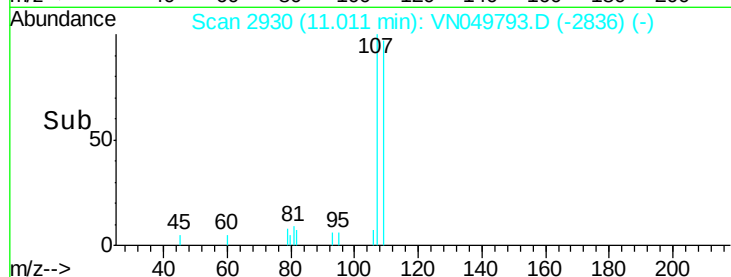
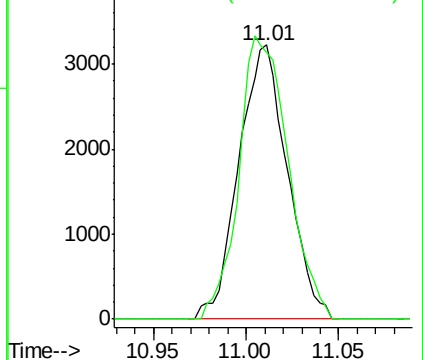
107 100

109 104.6 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 38.52 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

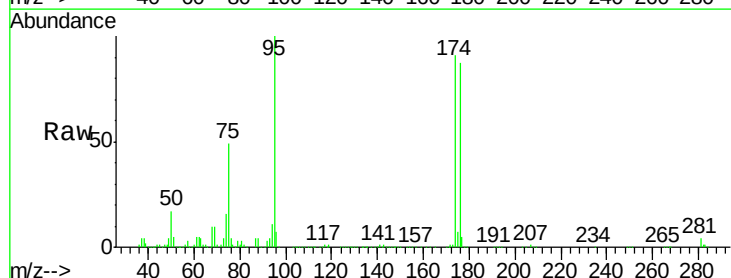
Tgt Ion: 95 Resp: 599412

Ion Ratio Lower Upper

95 100

174 91.8 0.0 179.6

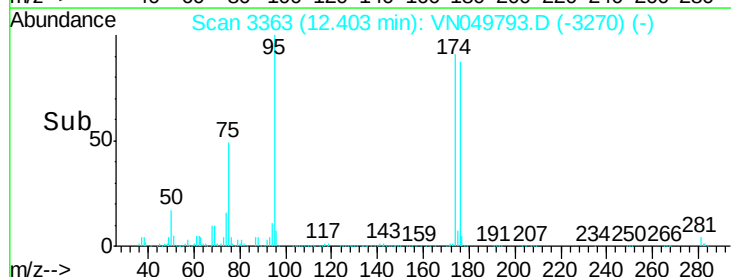
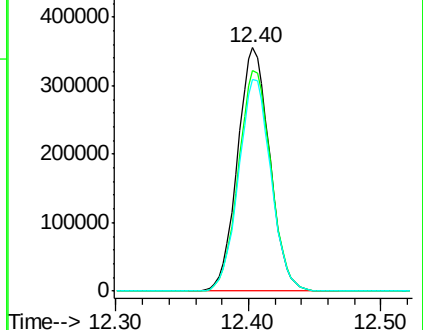
176 87.5 0.0 174.0

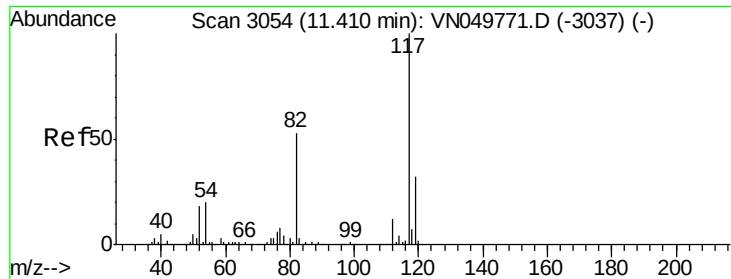


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

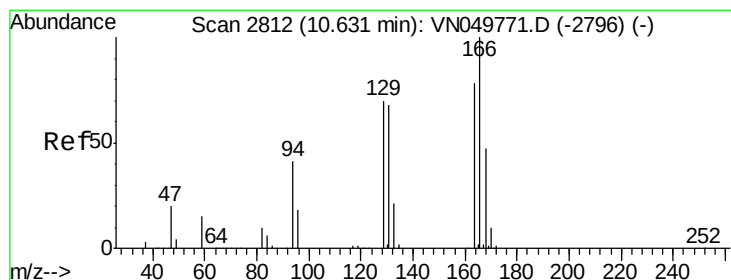
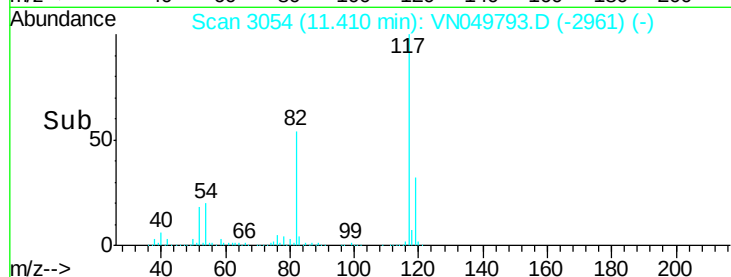
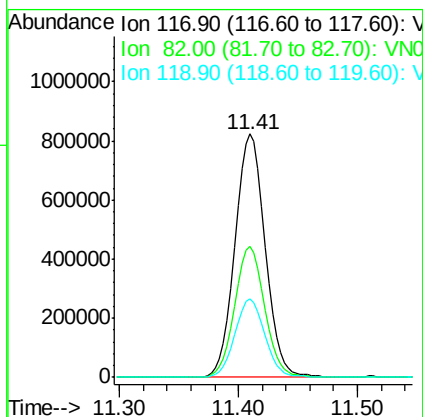
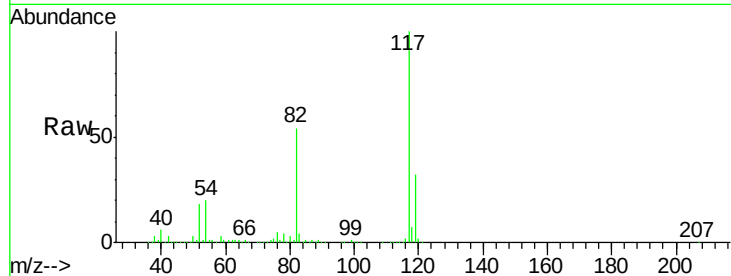




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

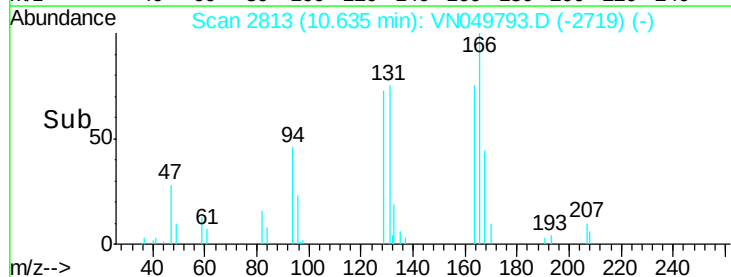
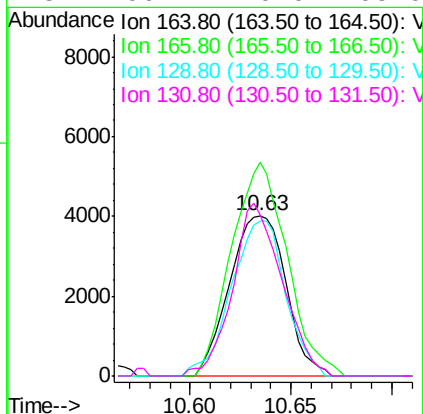
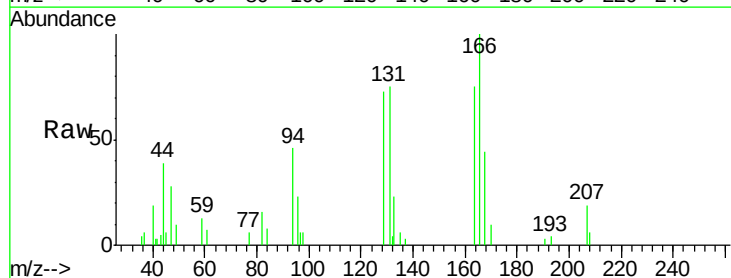
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

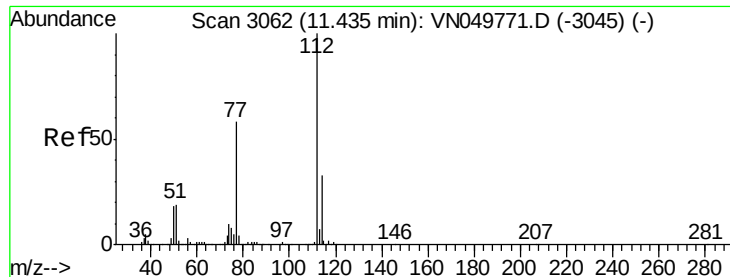
Tot Ion:117 Resp: 1450626
Ion Ratio Lower Upper
117 100
82 54.1 41.9 62.9
119 32.1 25.4 38.2



#64
Tetrachloroethene
Concen: 0.59 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion:164 Resp: 7819
Ion Ratio Lower Upper
164 100
166 133.0 101.8 152.6
129 96.7 72.8 109.2
131 100.2 70.0 105.0





#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

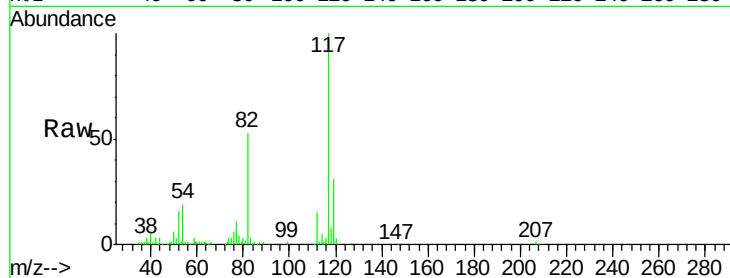
MDL-WATER-03-QT3-2018

Tot Ion:112 Resp: 22040

Ion Ratio Lower Upper

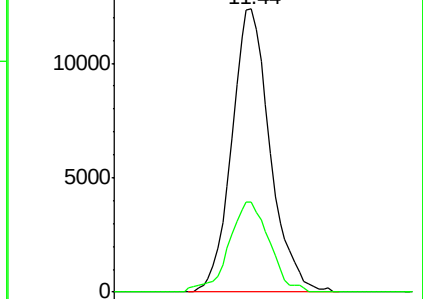
112 100

114 31.6 25.4 38.0

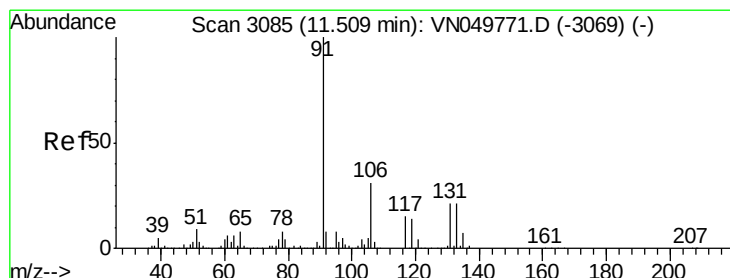
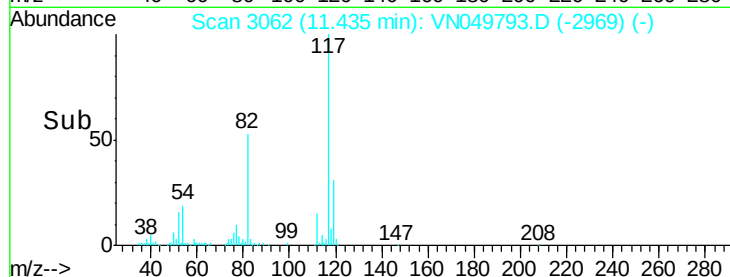


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time--> 11.35 11.40 11.45 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 0.56 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

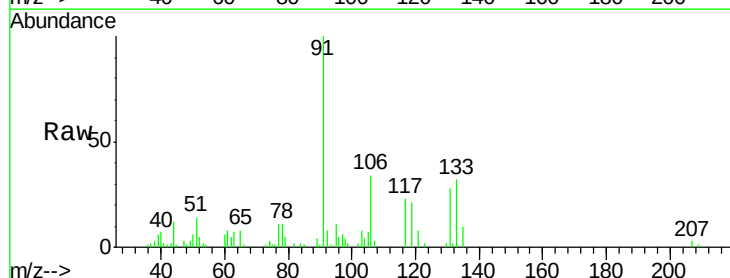
Tgt Ion:131 Resp: 8016

Ion Ratio Lower Upper

131 100

133 101.8 47.5 142.6

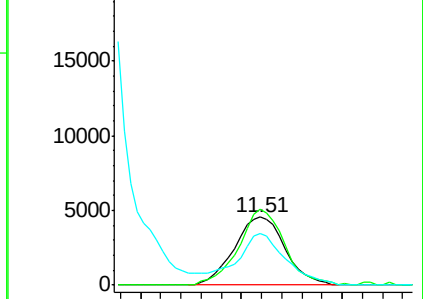
119 0.0 33.1 99.3#



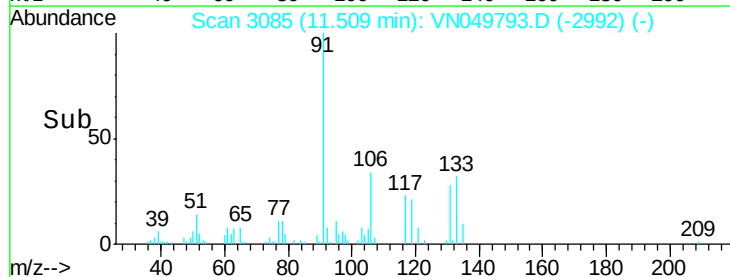
Abundance Ion 130.80 (130.50 to 131.50): V

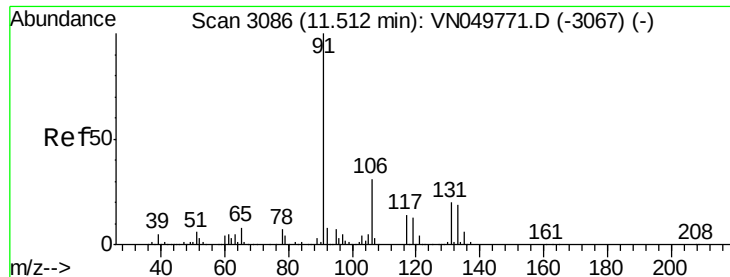
Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time--> 11.45 11.50 11.55





#67

Ethyl Benzene

Concen: 0.49 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

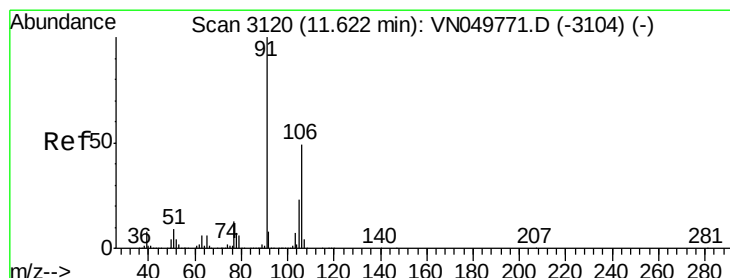
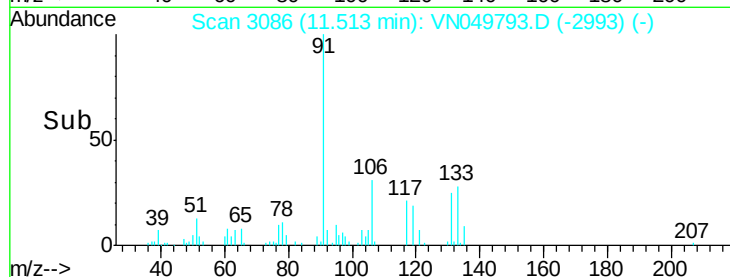
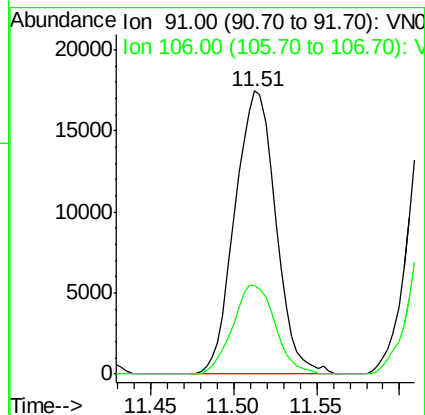
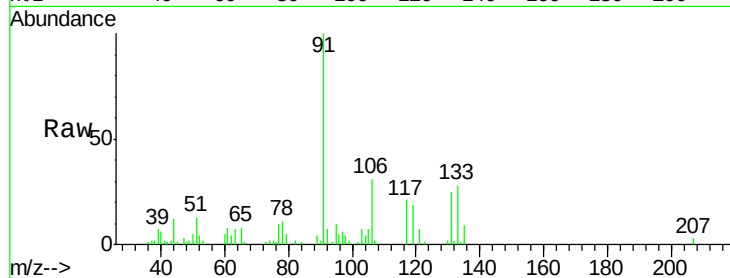
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 30079

Ion Ratio Lower Upper

91 100

106 31.5 24.8 37.2



#68

m/p-Xylenes

Concen: 0.91 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049793.D

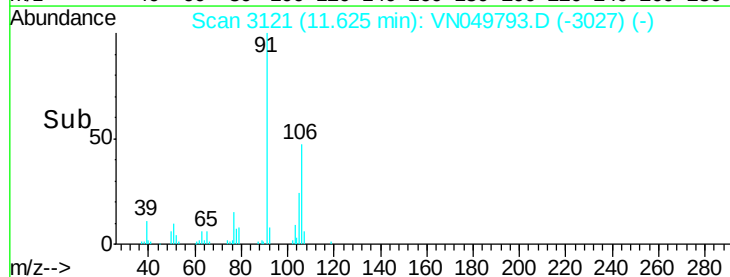
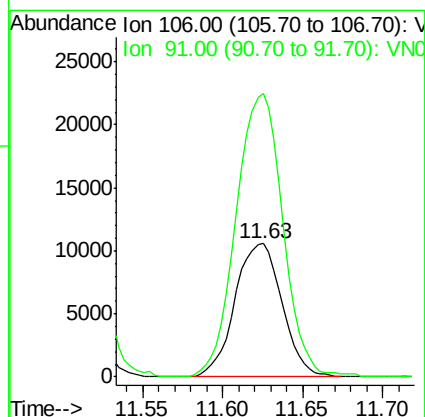
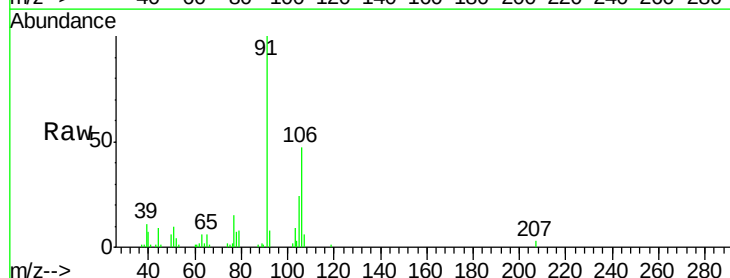
Acq: 13 Jul 2018 13:32

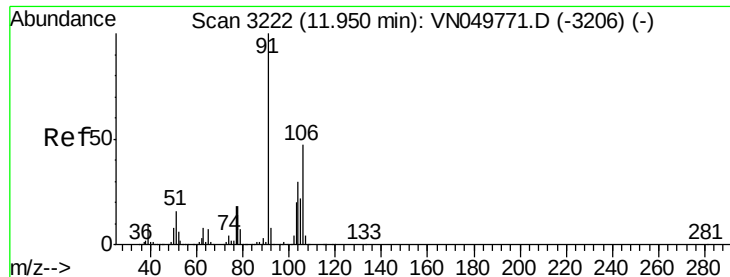
Tgt Ion: 106 Resp: 21239

Ion Ratio Lower Upper

106 100

91 211.0 163.4 245.2

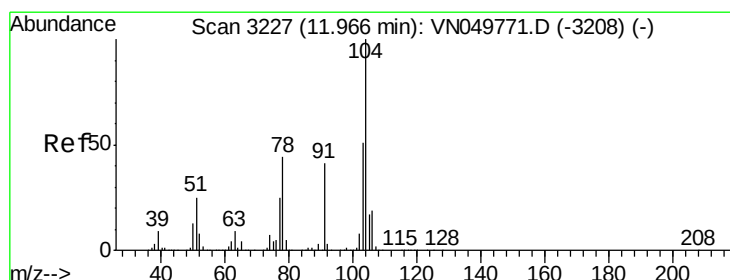
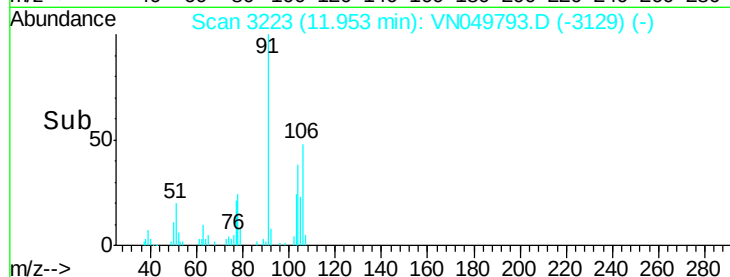
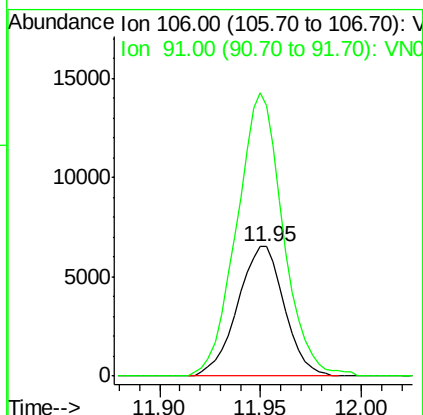
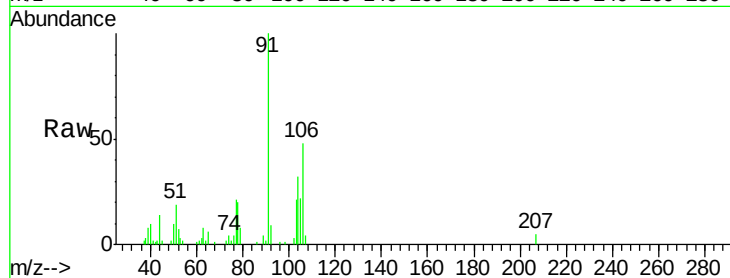




#69
o-Xylene
Concen: 0.47 ug/l
RT: 11.95 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

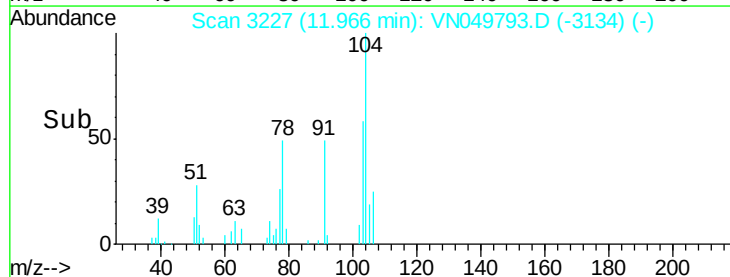
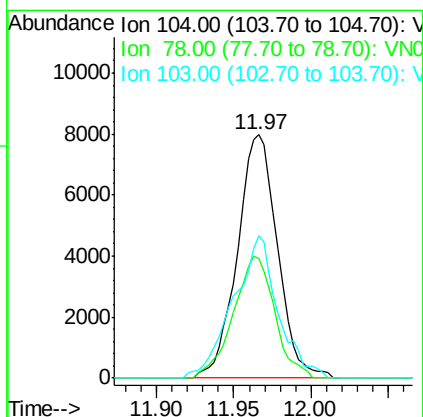
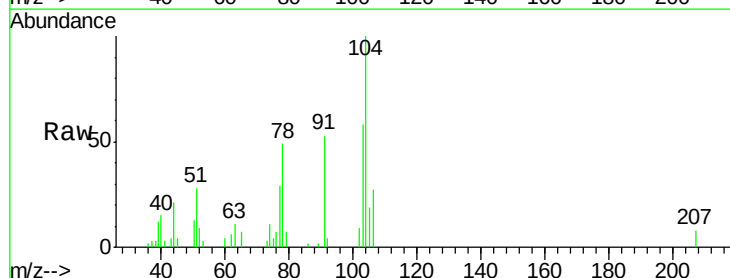
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

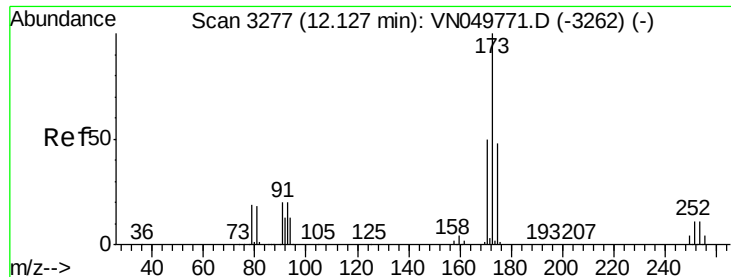
Tot Ion:106 Resp: 10605
Ion Ratio Lower Upper
106 100
91 215.9 108.7 326.1



#70
Styrene
Concen: 0.40 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion:104 Resp: 14425
Ion Ratio Lower Upper
104 100
78 51.5 39.2 58.8
103 65.0 44.6 67.0

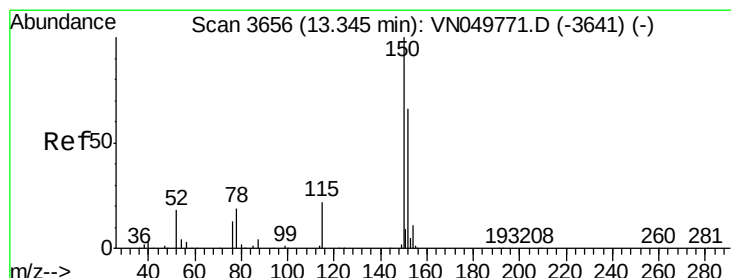
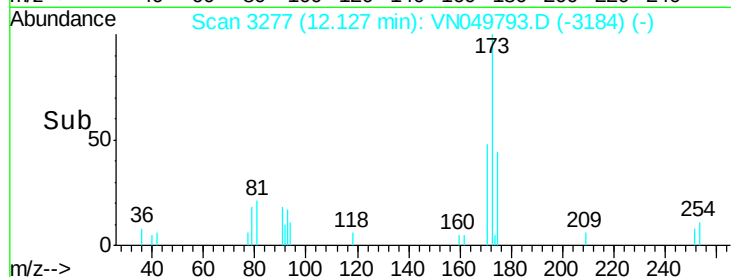
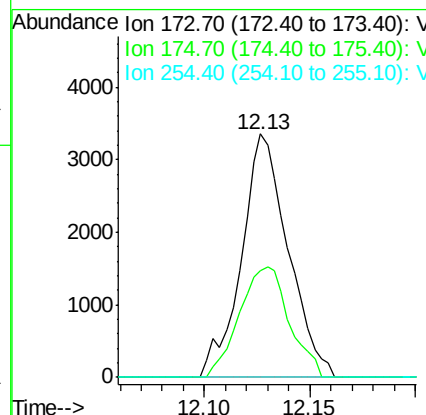
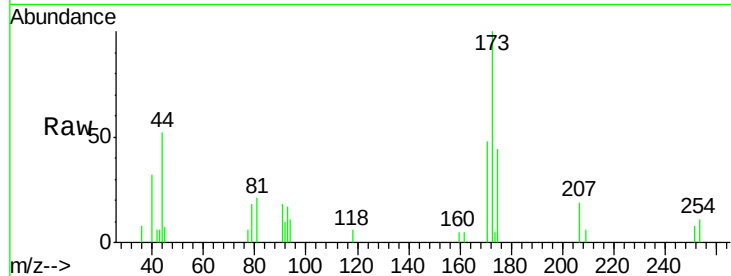




#71
Bromoform
Concen: 0.54 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

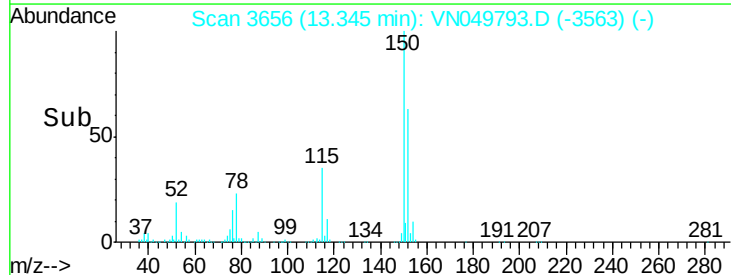
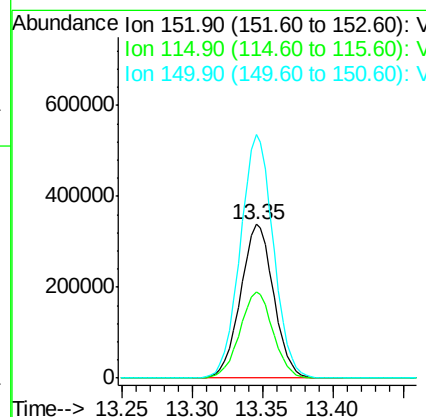
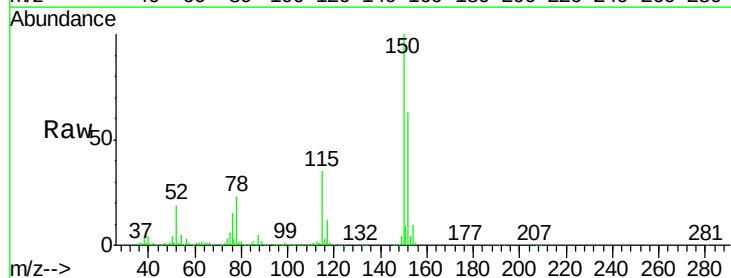
Instrument :
MSVOA_N
ClientSampleId :
MDL-WATER-03-QT3-2018

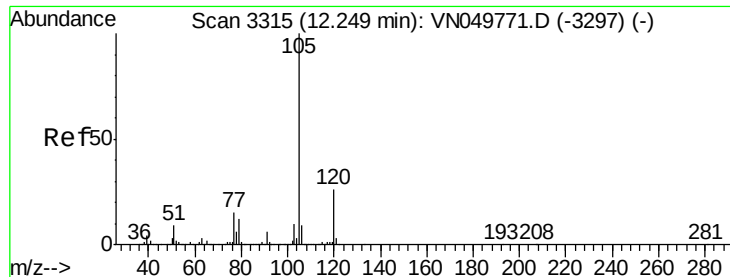
Tot Ion:173 Resp: 5166
Ion Ratio Lower Upper
173 100
175 48.3 24.6 73.8
254 0.0 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion:152 Resp: 555599
Ion Ratio Lower Upper
152 100
115 56.0 28.1 84.2
150 158.2 0.0 347.6





#73

Isopropylbenzene

Concen: 0.56 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

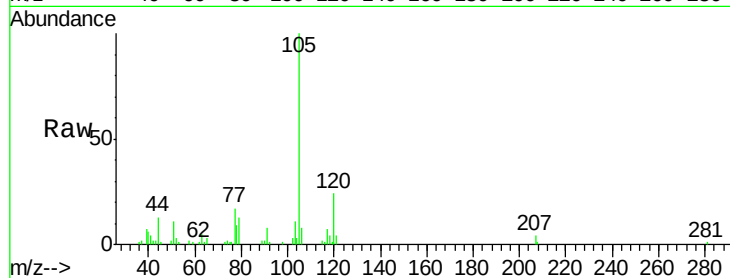
MDL-WATER-03-QT3-2018

Tot Ion:105 Resp: 25835

Ion Ratio Lower Upper

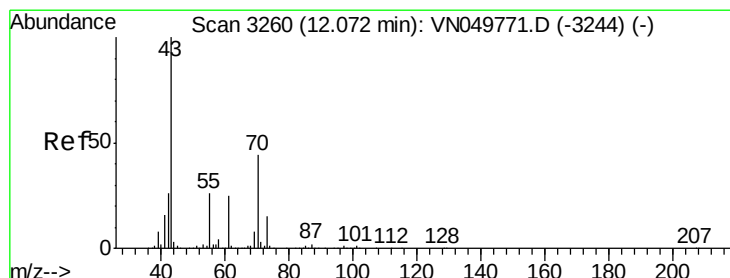
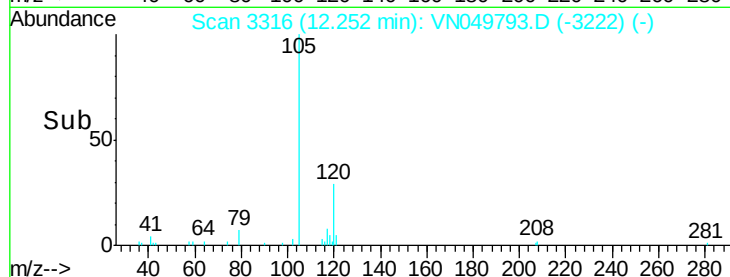
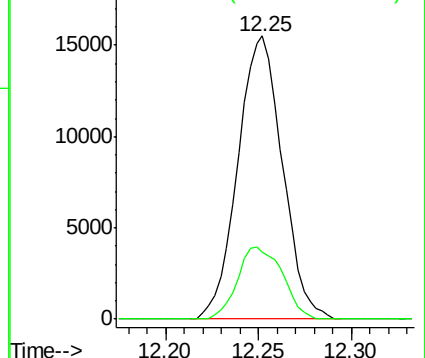
105 100

120 25.6 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.56 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Tgt Ion: 43 Resp: 6768

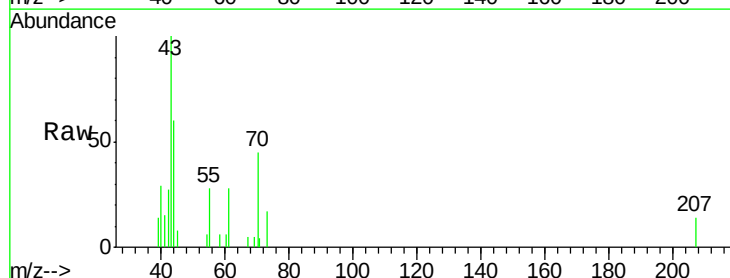
Ion Ratio Lower Upper

43 100

70 43.7 34.8 52.2

55 25.5 20.9 31.3

61 24.4 19.9 29.9

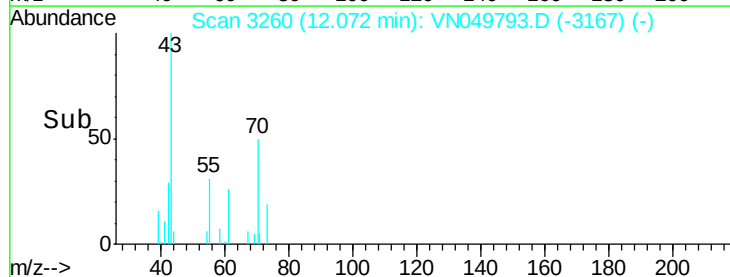
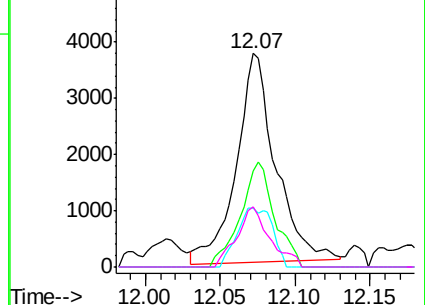


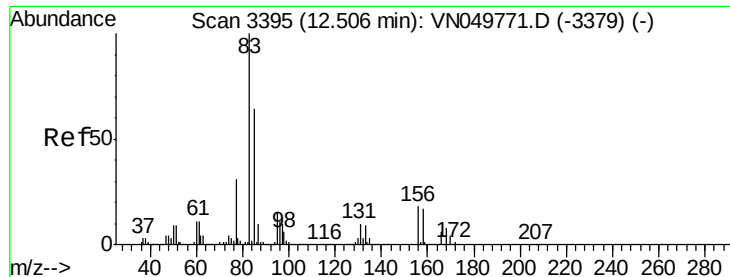
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

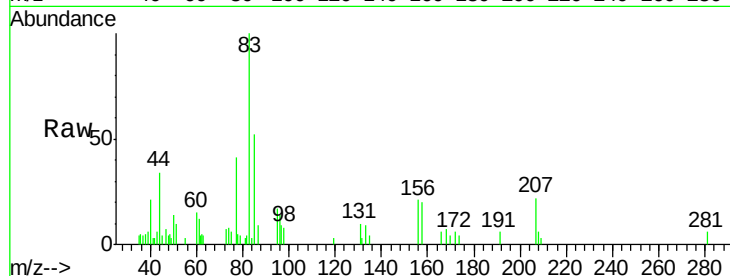
Tot Ion: 83 Resp: 9123

Ion Ratio Lower Upper

83 100

131 8.7 5.2 15.6

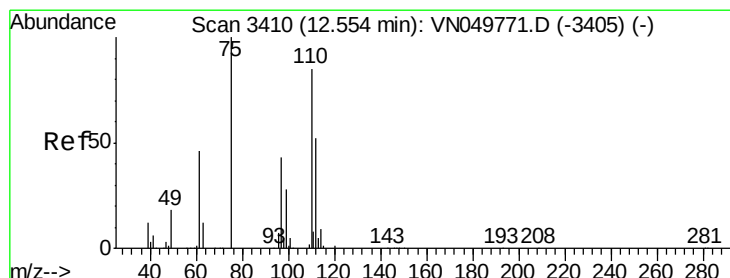
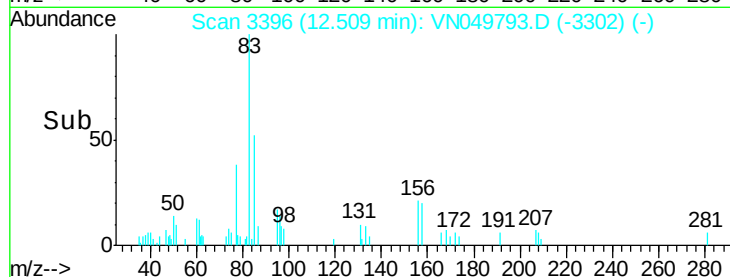
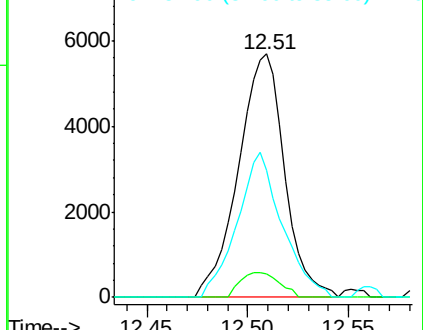
85 57.9 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 0.97 ug/l

RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN049793.D

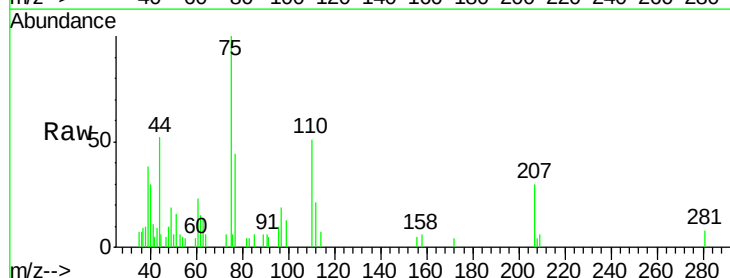
Acq: 13 Jul 2018 13:32

Tgt Ion: 75 Resp: 9542

Ion Ratio Lower Upper

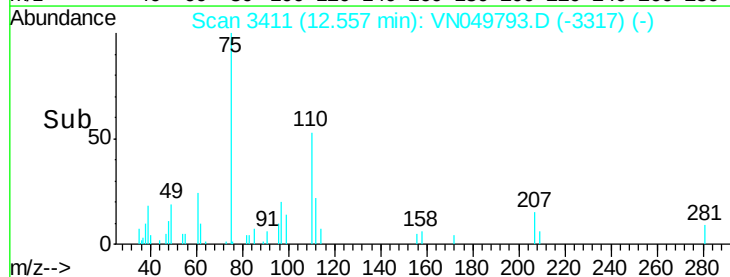
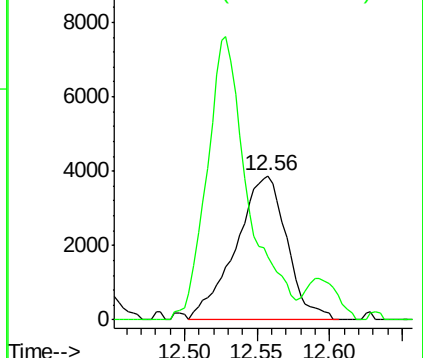
75 100

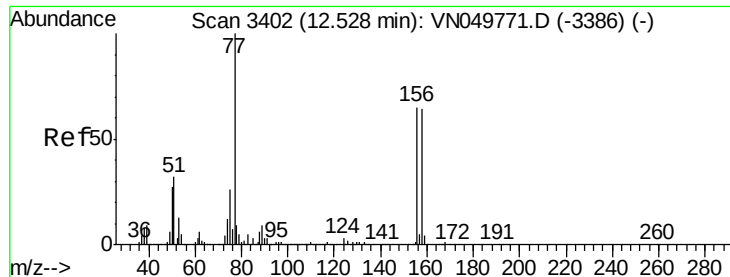
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 0.67 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

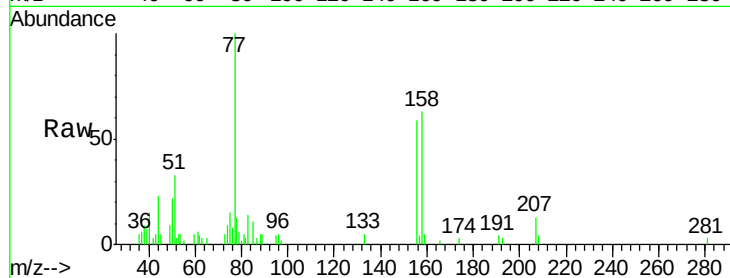
Tot Ion:156 Resp: 8186

Ion Ratio Lower Upper

156 100

77 184.3 90.2 270.6

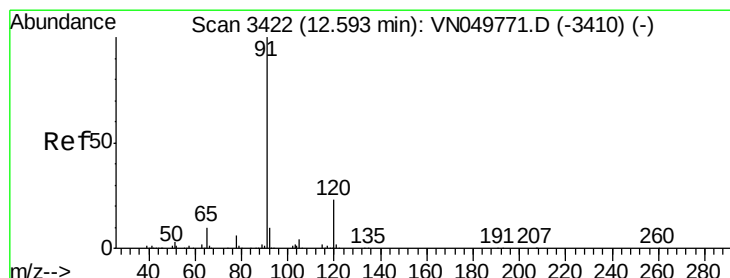
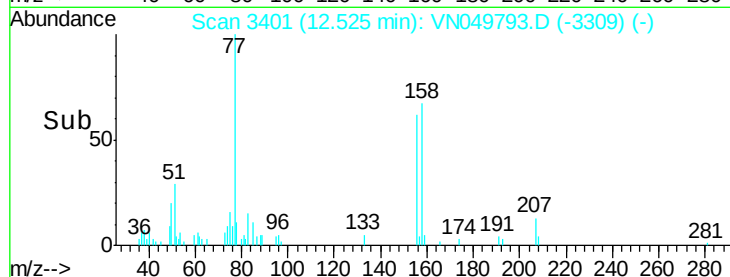
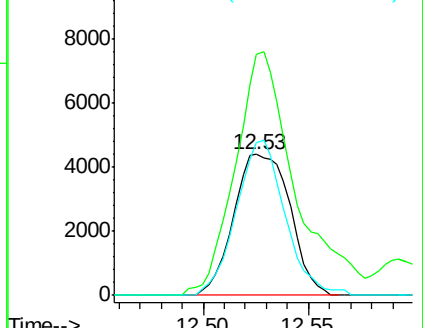
158 95.2 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.61 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049793.D

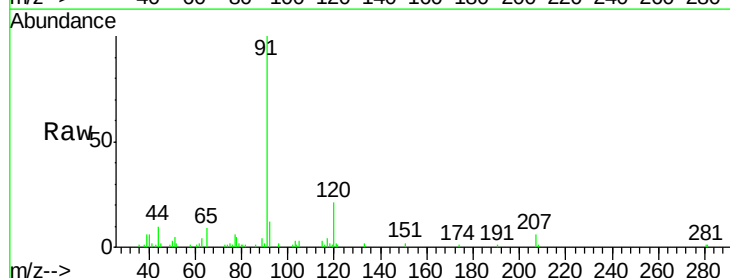
Acq: 13 Jul 2018 13:32

Tgt Ion: 91 Resp: 31800

Ion Ratio Lower Upper

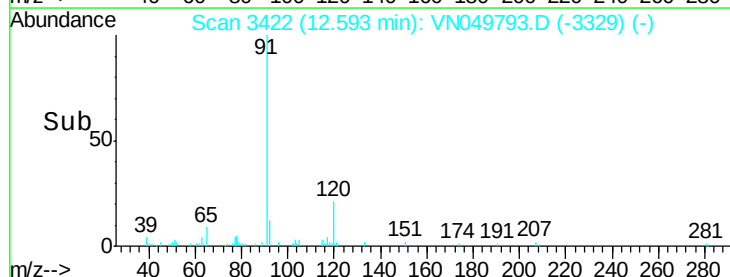
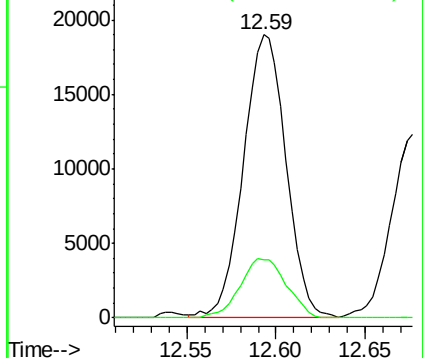
91 100

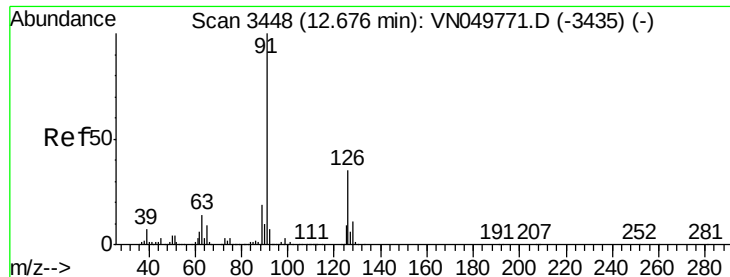
120 22.8 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.64 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

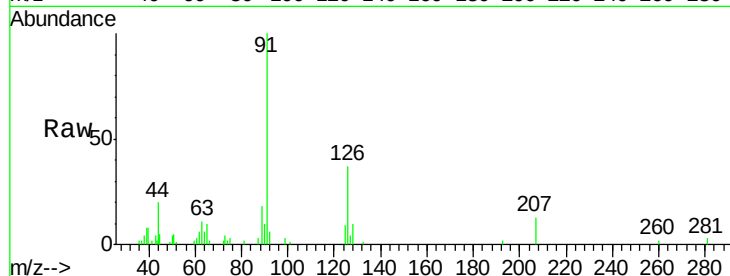
MDL-WATER-03-QT3-2018

Tot Ion: 91 Resp: 20473

Ion Ratio Lower Upper

91 100

126 35.3 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

20000

15000

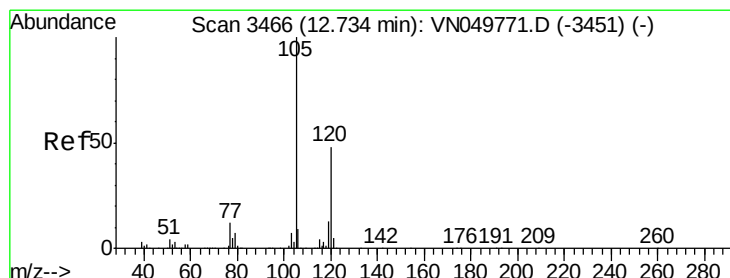
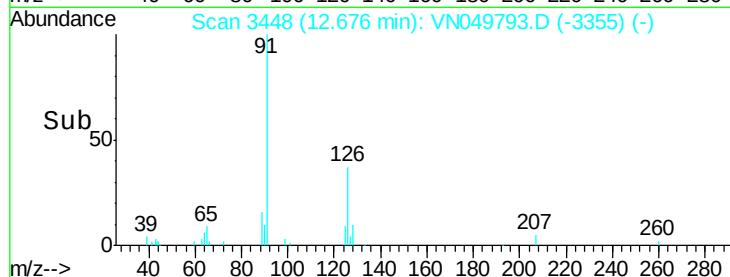
10000

5000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.58 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049793.D

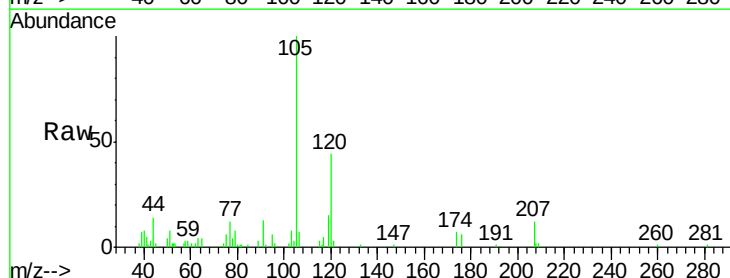
Acq: 13 Jul 2018 13:32

Tgt Ion: 105 Resp: 21179

Ion Ratio Lower Upper

105 100

120 48.1 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

15000

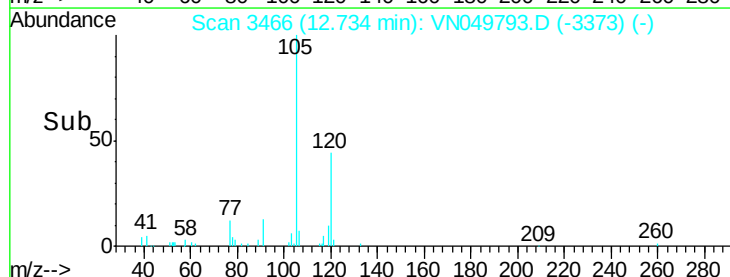
10000

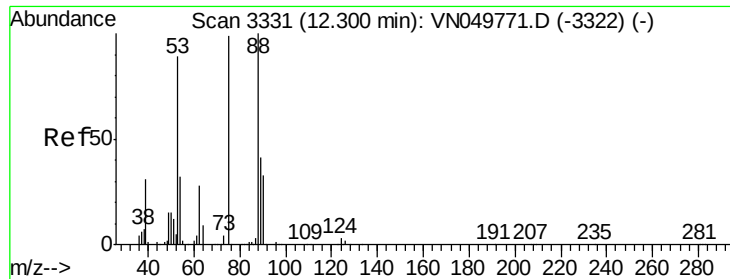
5000

0

12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 94.60 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

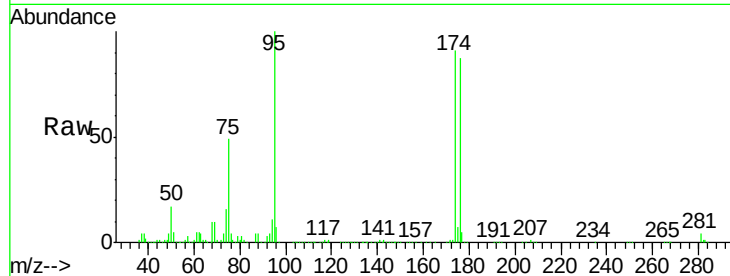
Tot Ion: 75 Resp: 289145

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

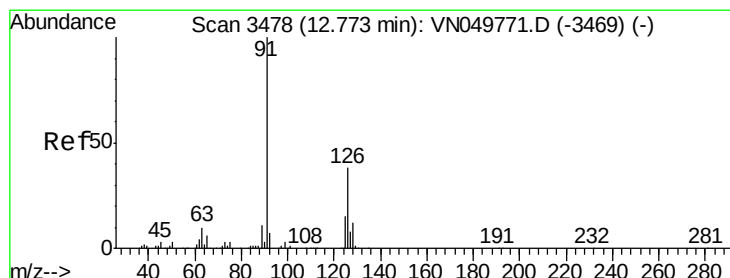
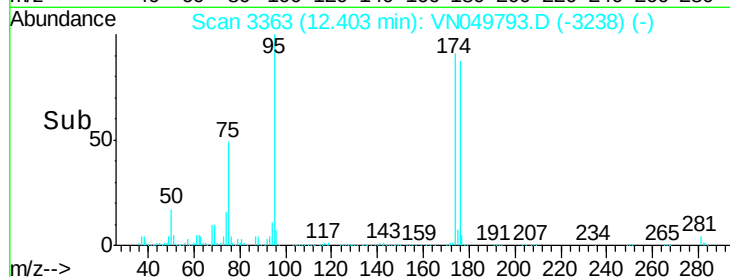
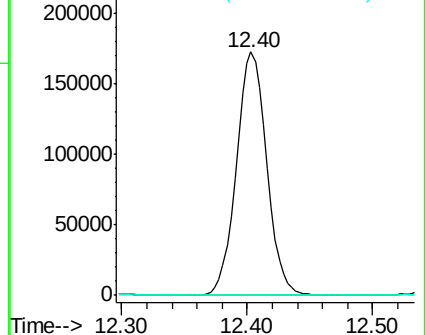
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.60 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN049793.D

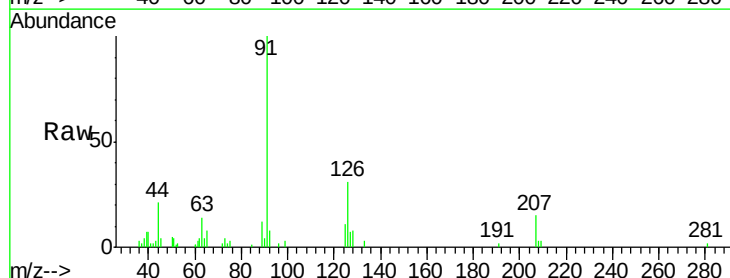
Acq: 13 Jul 2018 13:32

Tgt Ion: 91 Resp: 19044

Ion Ratio Lower Upper

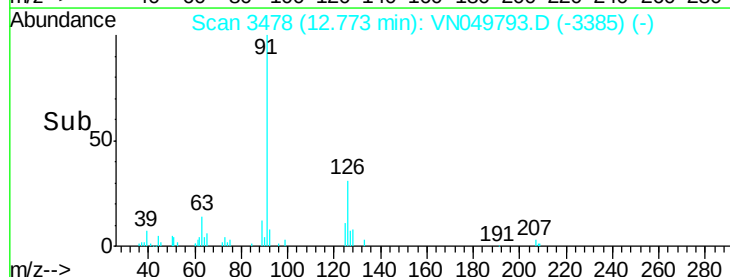
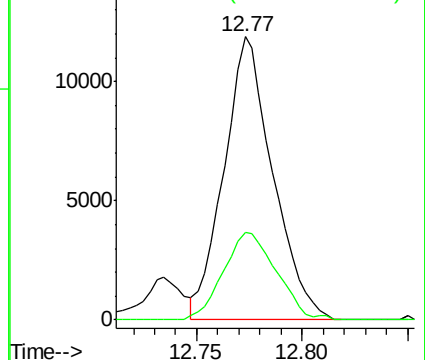
91 100

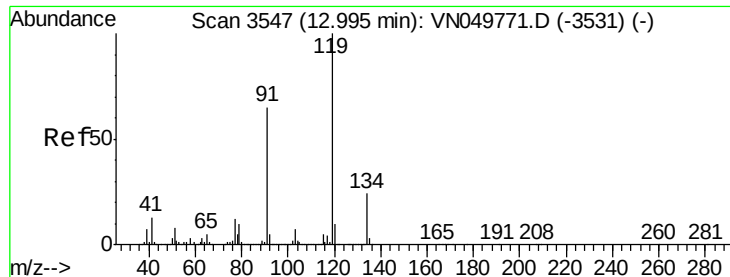
126 33.6 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

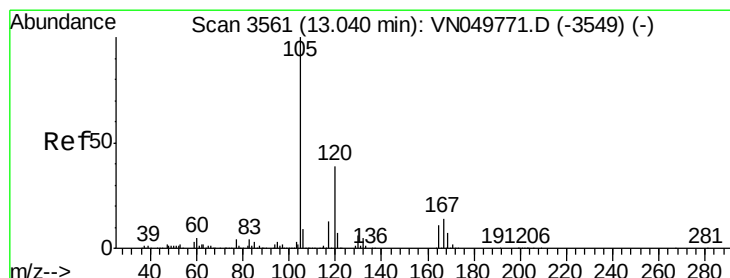
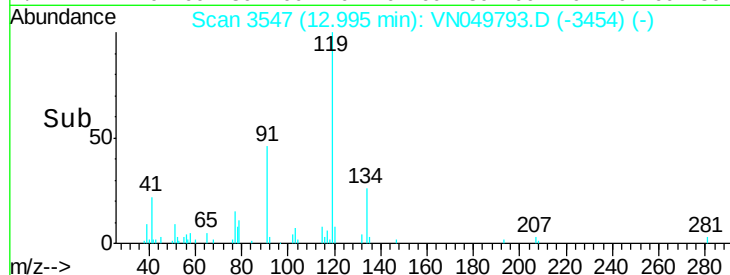
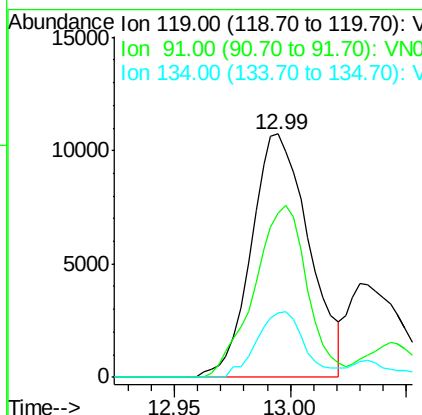
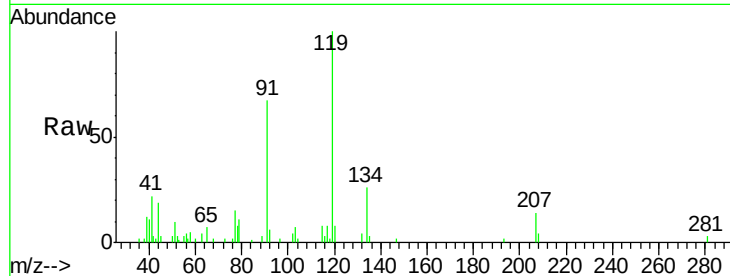




#83
 tert-Butylbenzene
 Concen: 0.57 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

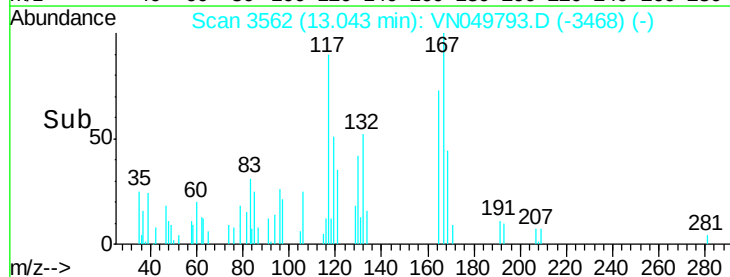
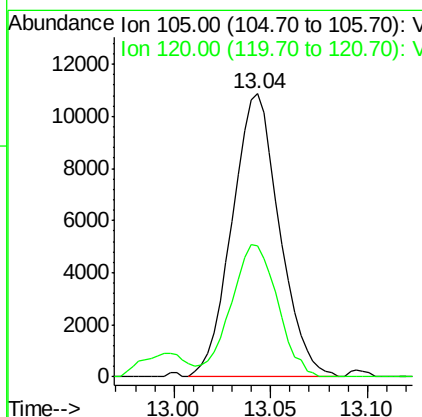
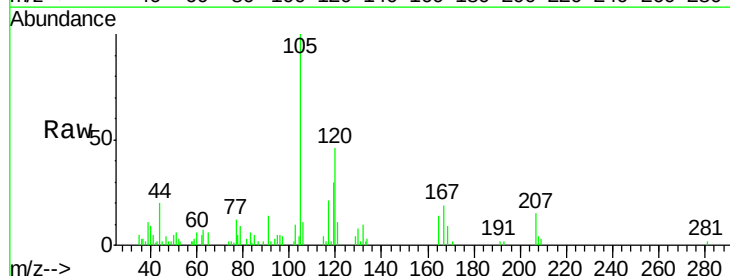
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

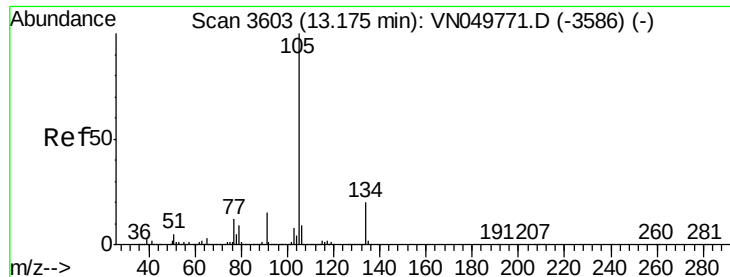
Tot Ion:119 Resp: 18617
 Ion Ratio Lower Upper
 119 100
 91 64.8 32.0 96.2
 134 22.3 12.8 38.4



#84
 1,2,4-Trimethylbenzene
 Concen: 0.50 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion:105 Resp: 18520
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.7 68.1





#85

sec-Butylbenzene

Concen: 0.52 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

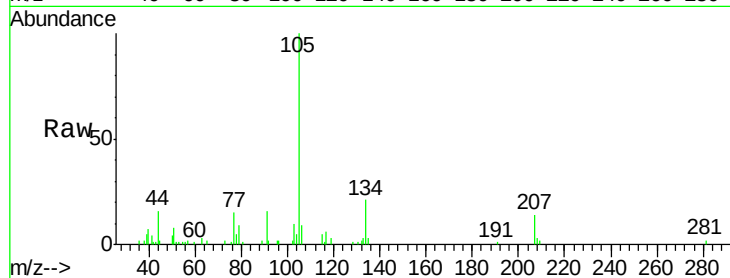
MDL-WATER-03-QT3-2018

Tot Ion:105 Resp: 22311

Ion Ratio Lower Upper

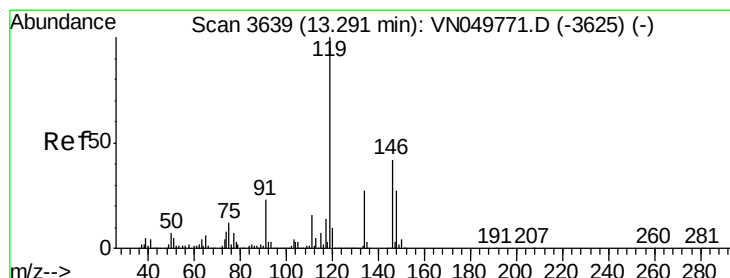
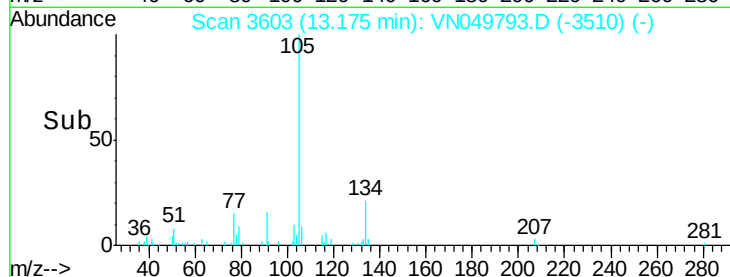
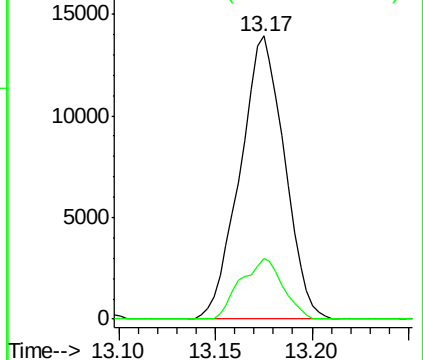
105 100

134 20.4 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.50 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

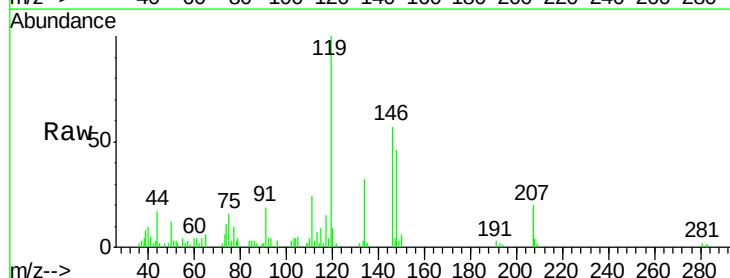
Tgt Ion:119 Resp: 18243

Ion Ratio Lower Upper

119 100

134 28.5 13.3 39.9

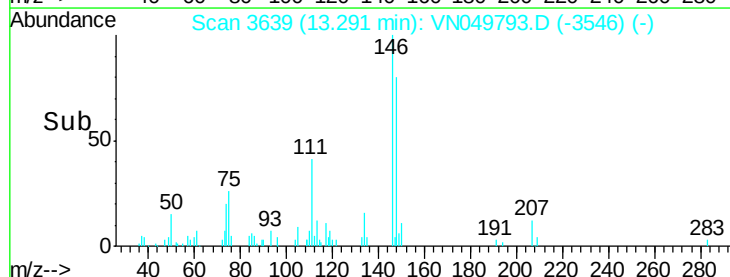
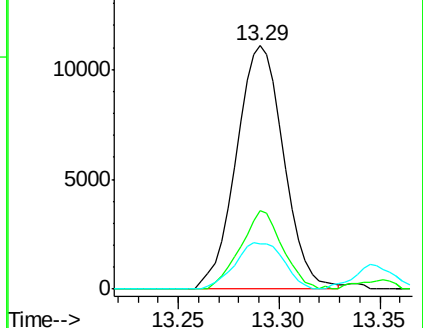
91 19.6 11.4 34.1

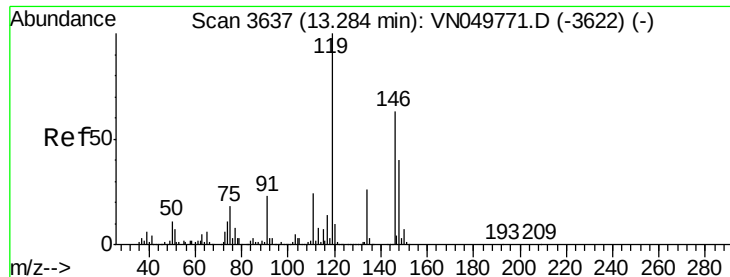


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

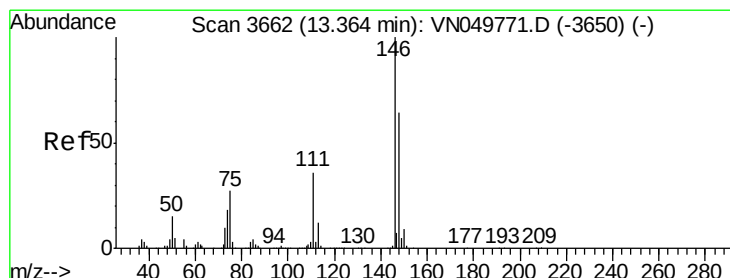
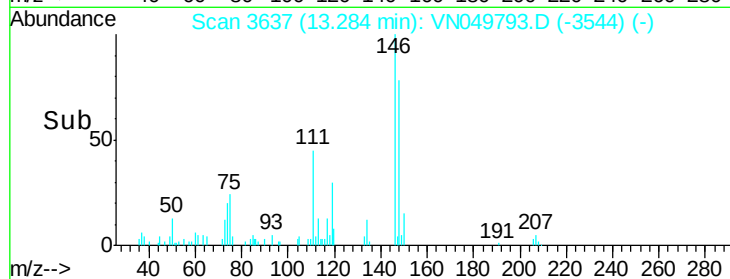
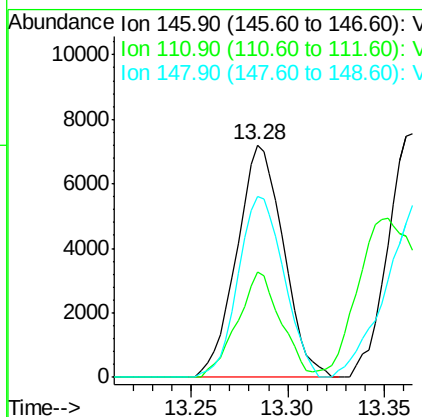
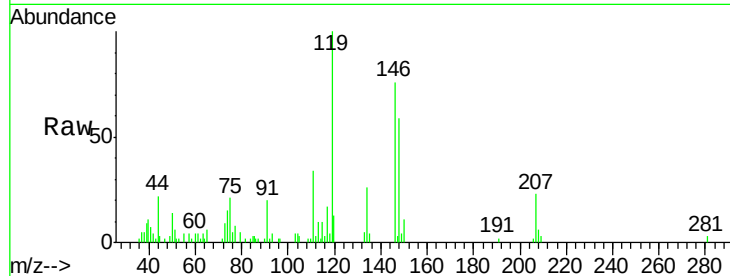




#87
 1,3-Dichlorobenzene
 Concen: 0.57 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

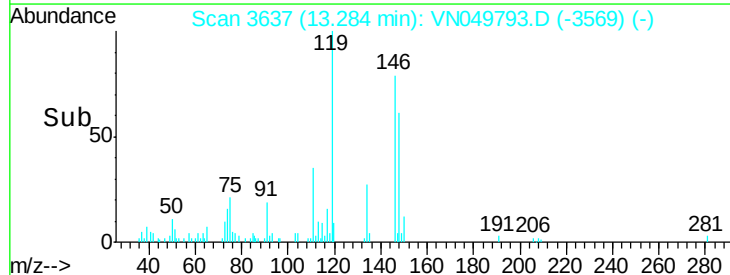
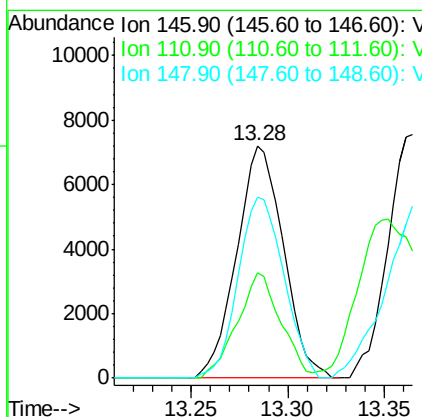
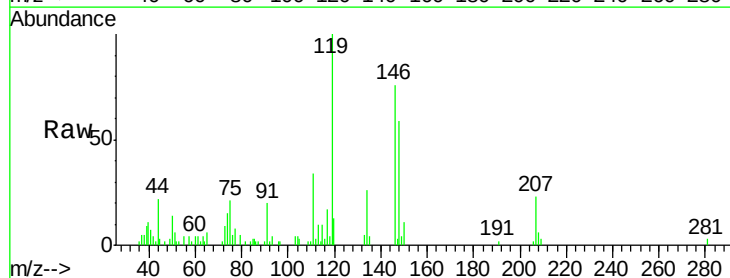
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

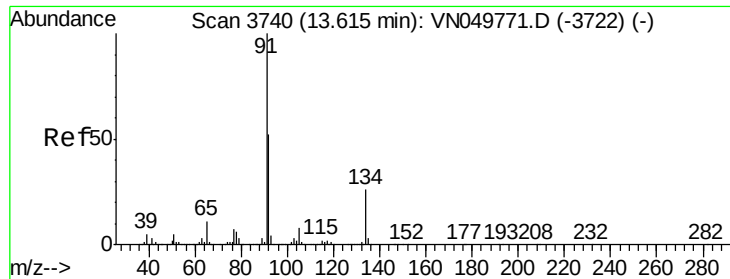
Tot Ion:146 Resp: 12110
 Ion Ratio Lower Upper
 146 100
 111 42.1 19.0 57.0
 148 76.3 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 0.59 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.08 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion:146 Resp: 12110
 Ion Ratio Lower Upper
 146 100
 111 42.1 18.9 56.5
 148 76.3 32.1 96.3

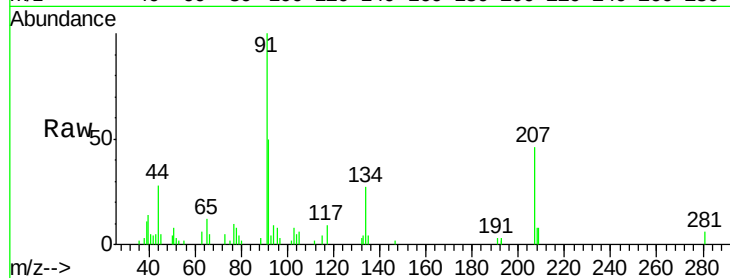




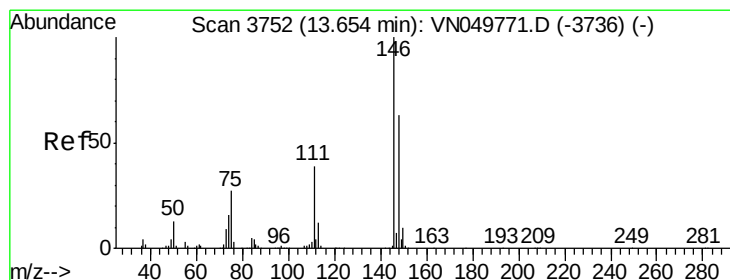
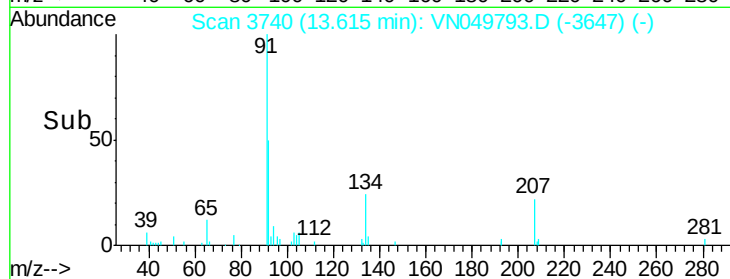
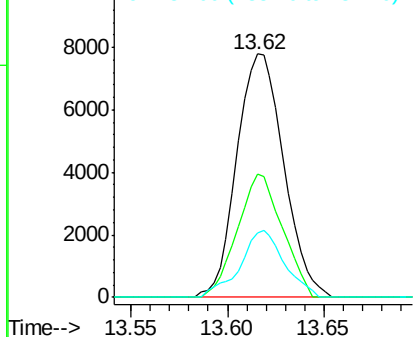
#89
n-Butylbenzene
Concen: 0.44 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

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

Tot Ion: 91 Resp: 13118
Ion Ratio Lower Upper
91 100
92 48.4 25.8 77.3
134 25.9 13.0 38.9

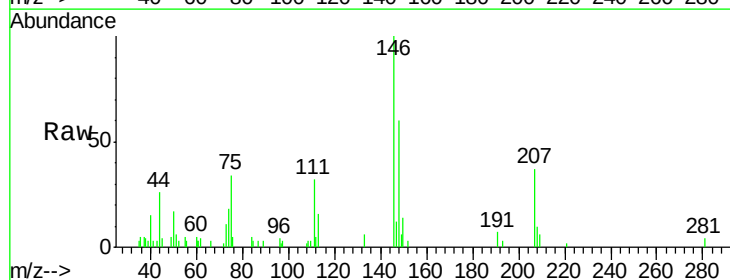


Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3722) (-)
Ion 92.00 (91.70 to 92.70): VN049771.D (-3722) (-)
Ion 134.00 (133.70 to 134.70): VN049771.D (-3722) (-)

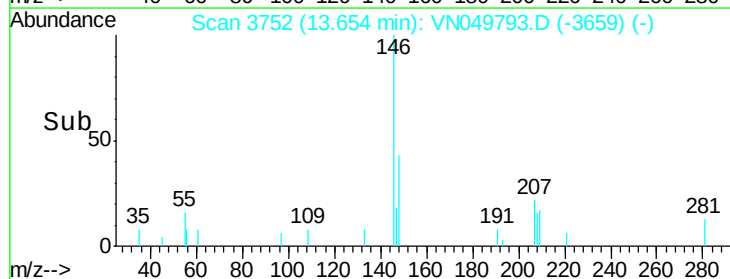
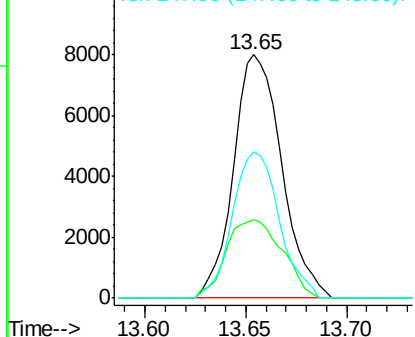


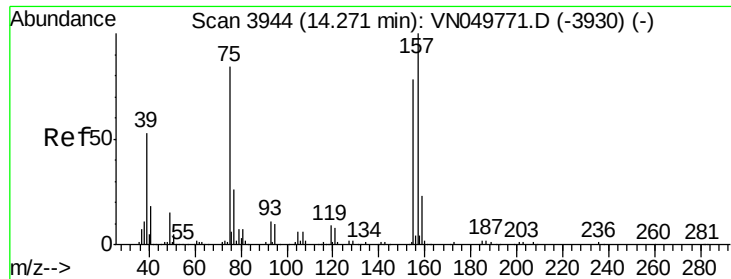
#91
1,2-Dichlorobenzene
Concen: 0.65 ug/l
RT: 13.65 min Scan# 3752
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion: 146 Resp: 13394
Ion Ratio Lower Upper
146 100
111 37.3 19.7 59.1
148 58.3 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): VN049771.D (-3736) (-)
Ion 110.90 (110.60 to 111.60): VN049771.D (-3736) (-)
Ion 147.90 (147.60 to 148.60): VN049771.D (-3736) (-)

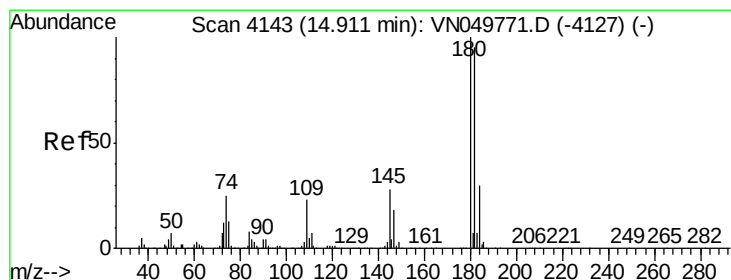
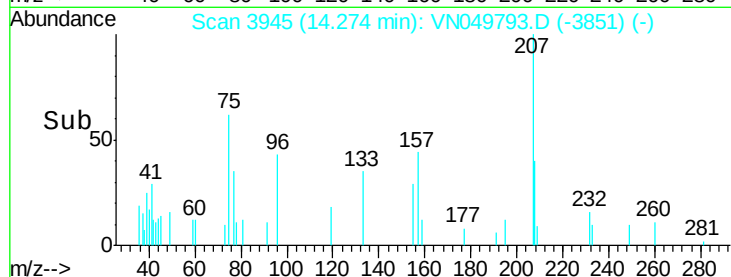
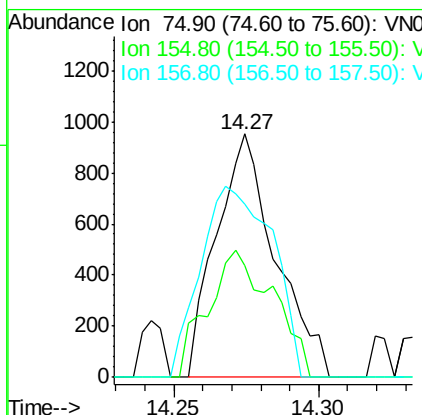
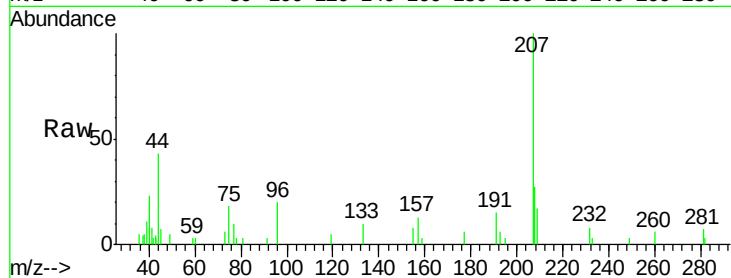




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.35 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

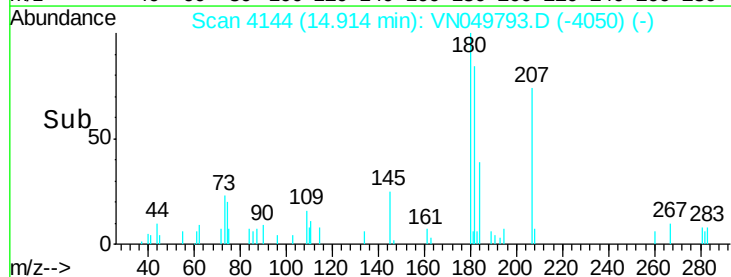
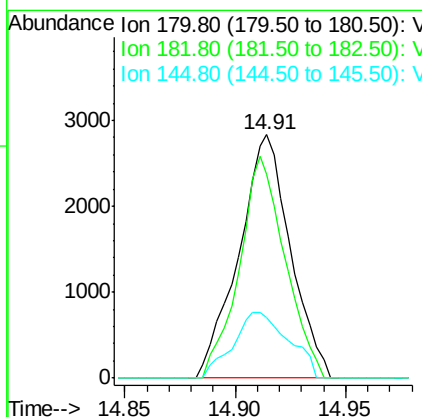
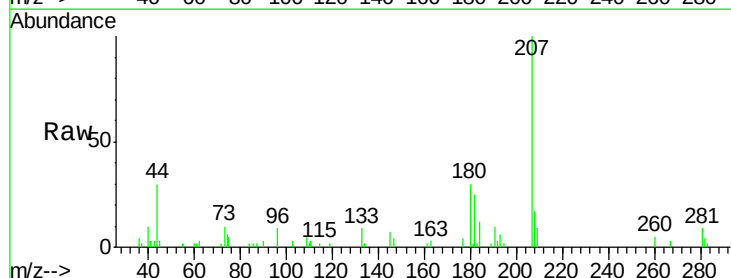
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT3-2018

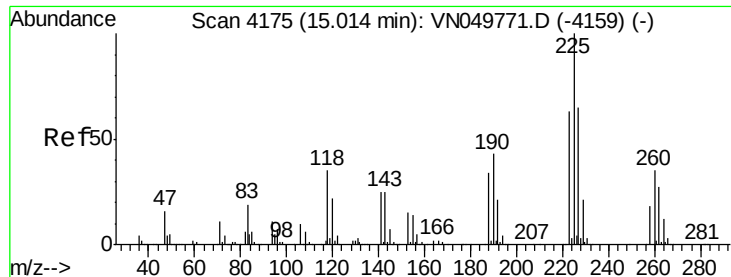
Tot Ion: 75 Resp: 1356
 Ion Ratio Lower Upper
 75 100
 155 57.4 45.7 137.1
 157 95.3 56.9 170.7



#93
 1,2,4-Trichlorobenzene
 Concen: 3.27 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049793.D
 Acq: 13 Jul 2018 13:32

Tgt Ion: 180 Resp: 4598
 Ion Ratio Lower Upper
 180 100
 182 80.9 47.3 141.9
 145 29.1 14.4 43.0

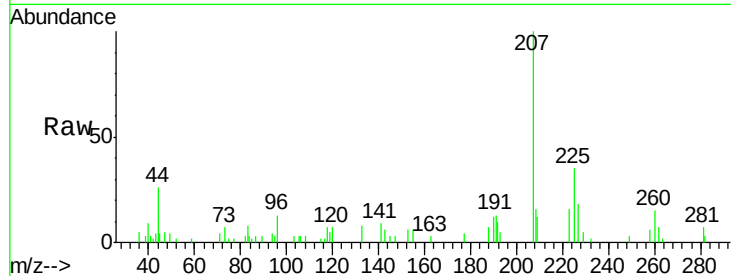




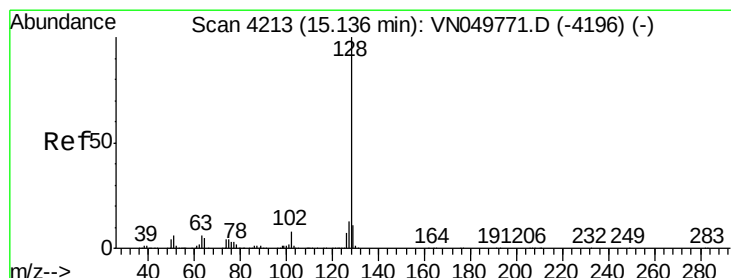
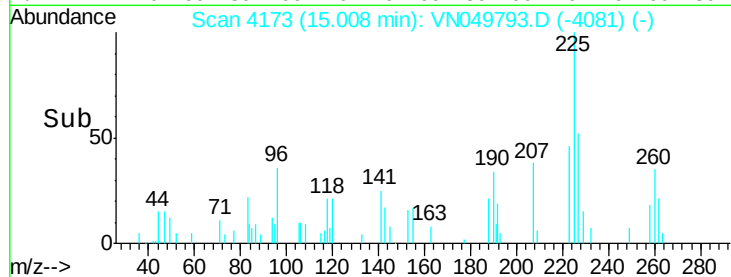
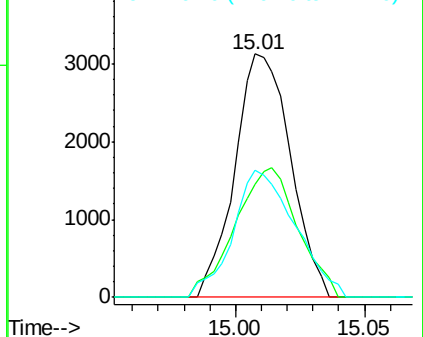
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4173
Delta R.T. -0.01 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

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

Tot Ion:225 Resp: 4695
Ion Ratio Lower Upper
225 100
223 60.1 30.9 92.7
227 58.7 31.8 95.4

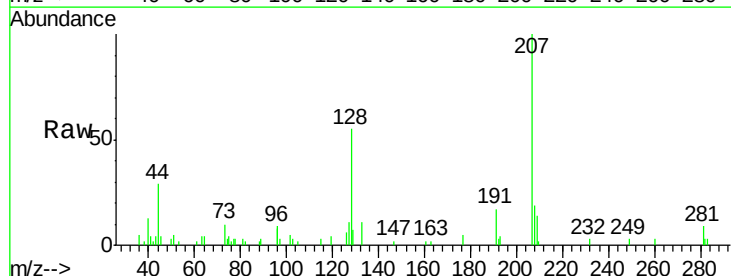


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

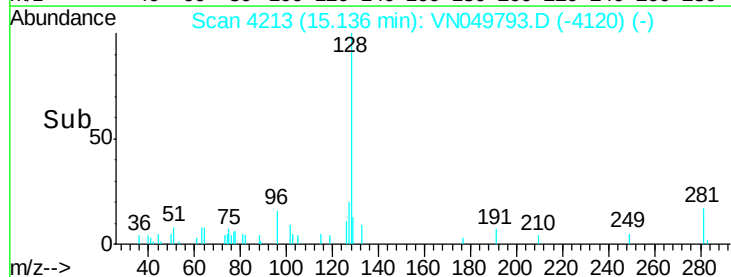
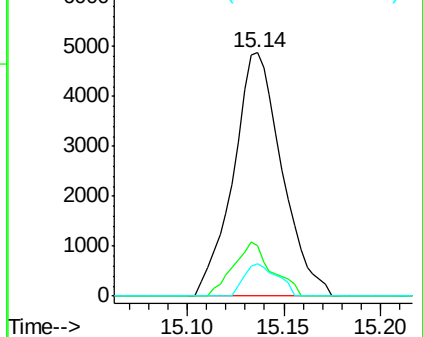


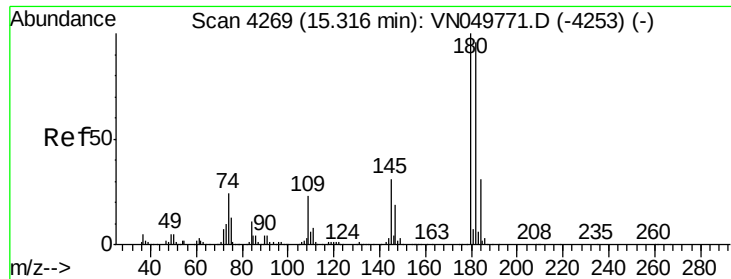
#95
Naphthalene
Concen: 4.34 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049793.D
Acq: 13 Jul 2018 13:32

Tgt Ion:128 Resp: 8516
Ion Ratio Lower Upper
128 100
127 17.5 10.4 15.6#
129 9.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.50 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.00 min

Lab File: VN049793.D

Acq: 13 Jul 2018 13:32

Instrument :

MSVOA_N

ClientSampleId :

MDL-WATER-03-QT3-2018

Tot Ion:180 Resp: 4976

Ion Ratio Lower Upper

180 100

182 98.2 47.4 142.2

145 40.2 15.2 45.6

