

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072618\
 Data File : VN050086.D
 Acq On : 26 Jul 2018 16:51
 Operator : MD\SY
 Sample : J4142-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Quant Time: Jul 27 01:21:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	741844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1076044	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	943759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	430620	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	463054	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	
35) Dibromofluoromethane	7.59	113	407548	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
50) Toluene-d8	10.09	98	1520887	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
62) 4-Bromofluorobenzene	12.40	95	475569	44.72	ug/l	0.00
Spiked Amount			Recovery	=	89.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	247	Below Cal	#	34
11) Tert butyl alcohol	4.81	59	10509	13.80	ug/l #	72
13) Acrolein	3.56	56	1862	3.04	ug/l #	1
14) Allyl chloride	4.41	41	7154	0.54	ug/l #	54
15) Acrylonitrile	5.06	53	14140	4.26	ug/l #	34
16) Acetone	3.80	43	44439	14.13	ug/l #	56
18) Methyl Acetate	4.59	43	470370	49.59	ug/l #	51
19) Methyl tert-butyl Ether	5.07	73	14310	0.63	ug/l #	1
20) Methylene Chloride	4.53	84	2622	Below Cal	#	1
25) 2-Butanone	6.83	43	2828	0.72	ug/l #	75
30) Chloroform	7.32	83	7006	0.40	ug/l #	17
31) Cyclohexane	7.65	56	240809	16.85	ug/l	95
36) 1,1-Dichloropropene	7.67	75	50743	4.19	ug/l #	58
37) Ethyl Acetate	6.83	43	2828	0.33	ug/l #	85
38) Carbon Tetrachloride	7.67	117	67105	5.22	ug/l #	16
39) Methylcyclohexane	9.08	83	183996	14.75	ug/l	95
40) Benzene	8.04	78	42736	1.16	ug/l	99
41) Methacrylonitrile	7.15	41	284	2.81	ug/l #	10
43) Isopropyl Acetate	8.26	43	256122	15.29	ug/l #	61
45) 1,2-Dichloropropane	9.08	63	2270	0.23	ug/l #	1
47) Bromodichloromethane	9.39	83	2973	0.23	ug/l #	25
48) Methyl methacrylate	9.27	41	17255	2.37	ug/l #	56
51) 4-Methyl-2-Pentanone	9.99	43	2185	0.26	ug/l #	35
52) Toluene	10.16	92	9362	0.43	ug/l	92
55) 1,1,2-Trichloroethane	10.53	97	26479	3.07	ug/l #	20
56) Ethyl methacrylate	10.44	69	8568	2.73	ug/l #	23
58) 2-Chloroethyl Vinyl ether	9.70	63	114	8.55	ug/l #	48
59) 2-Hexanone	10.89	43	1076	5.35	ug/l	75
61) 1,2-Dibromoethane	10.99	107	1779	0.21	ug/l #	1
67) Ethyl Benzene	11.51	91	138843	3.63	ug/l	100
68) m/p-Xylenes	11.63	106	5489	0.38	ug/l	97
69) o-Xylene	11.95	106	15578	1.13	ug/l	100
70) Styrene	11.96	104	1430	0.98	ug/l #	1
73) Isopropylbenzene	12.25	105	717156	21.47	ug/l	100

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

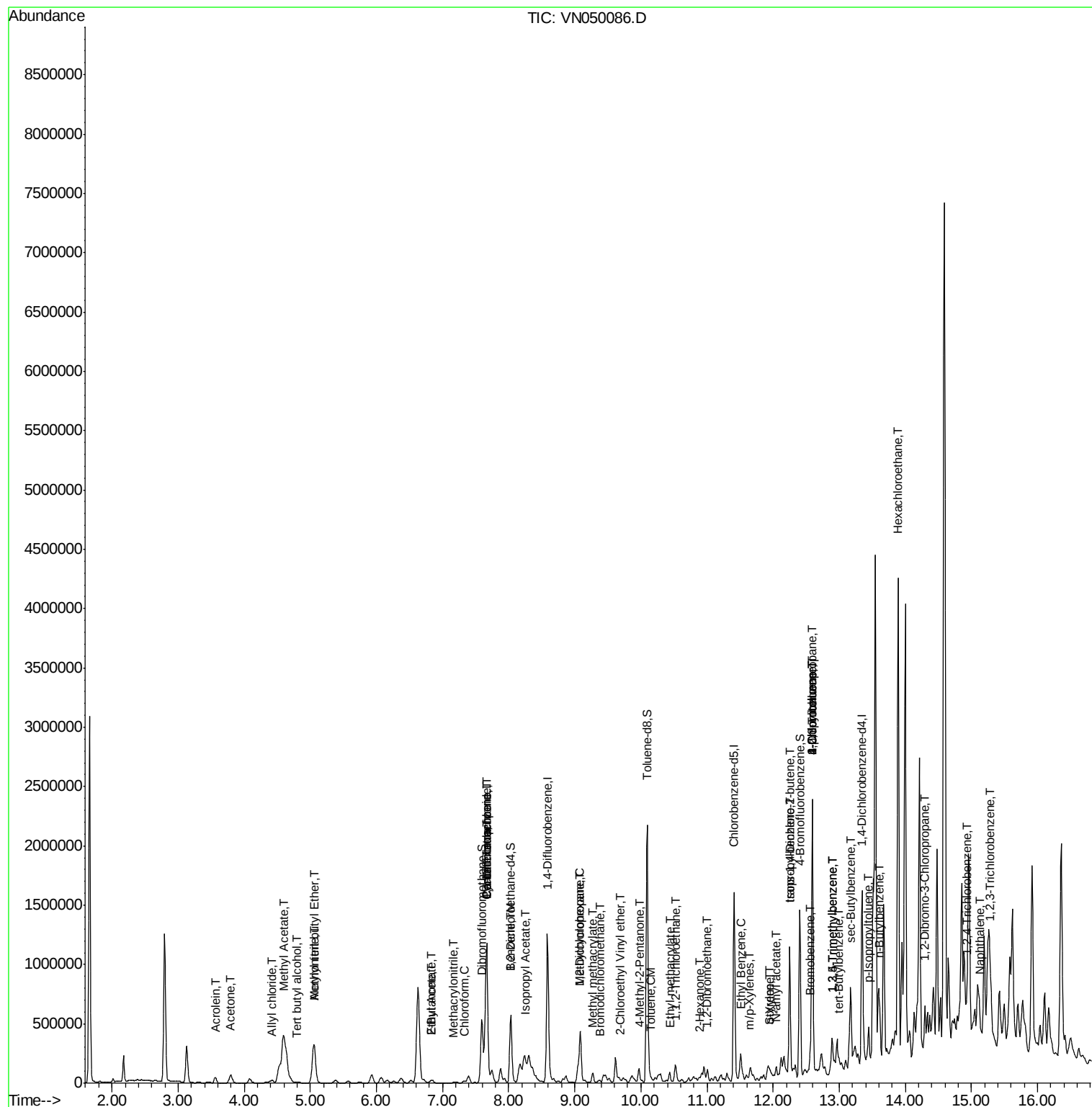
74) N-amyl acetate	12.05	43	18415	1.80	ug/l #	72
75) 1,1,2,2-Tetrachloroethane	12.46	83	1541	Below	Cal #	29
76) 1,2,3-Trichloropropane	12.59	75	11363	1.42	ug/l #	100
77) Bromobenzene	12.56	156	3502	0.38	ug/l #	1
78) n-propylbenzene	12.59	91	1828693	48.99	ug/l	100
79) 2-Chlorotoluene	12.59	91	1828693	79.04	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.89	105	189624	7.22	ug/l	73
81) trans-1,4-Dichloro-2-buten	12.25	75	8125	3.22	ug/l #	58
82) 4-Chlorotoluene	12.59	91	1828693	79.81	ug/l #	41
83) tert-Butylbenzene	13.00	119	36342	1.59	ug/l	97
84) 1,2,4-Trimethylbenzene	12.89	105	189624	7.16	ug/l	77
85) sec-Butylbenzene	13.17	105	422978	13.81	ug/l	85
86) p-Isopropyltoluene	13.44	119	175956	6.82	ug/l	96
89) n-Butylbenzene	13.62	91	290199	13.67	ug/l #	73
90) Hexachloroethane	13.89	117	211348	36.88	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.29	75	1700	0.34	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.92	180	141	3.10	ug/l #	1
95) Naphthalene	15.14	128	3321	4.57	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.29	180	2139	2.46	ug/l #	1

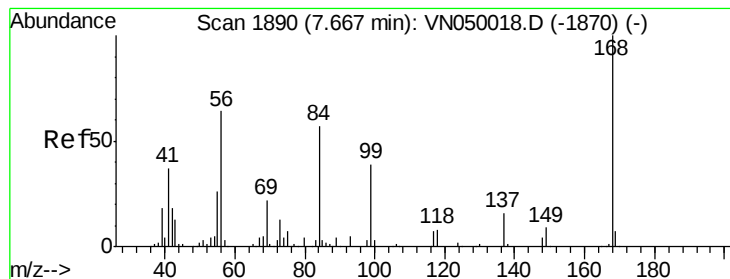
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

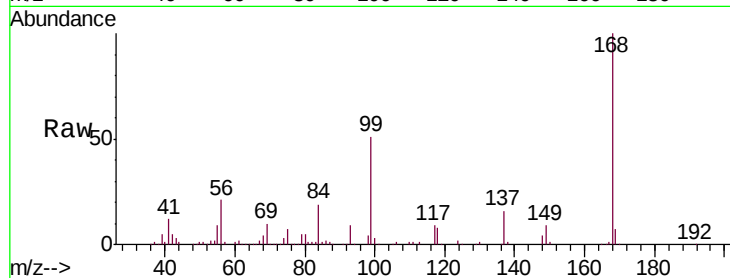
MW-7

Tot Ion:168 Resp: 741844

Ion Ratio Lower Upper

168 100

99 50.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

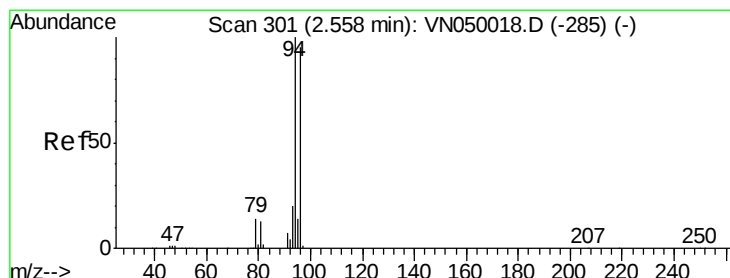
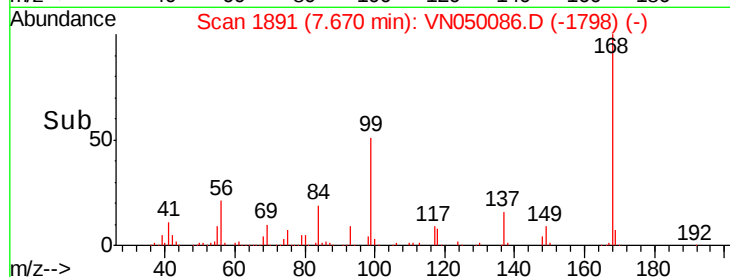
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050086.D

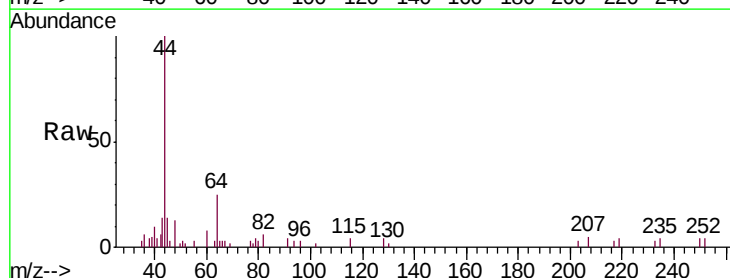
Acq: 26 Jul 2018 16:51

Tgt Ion: 94 Resp: 247

Ion Ratio Lower Upper

94 100

96 29.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

400

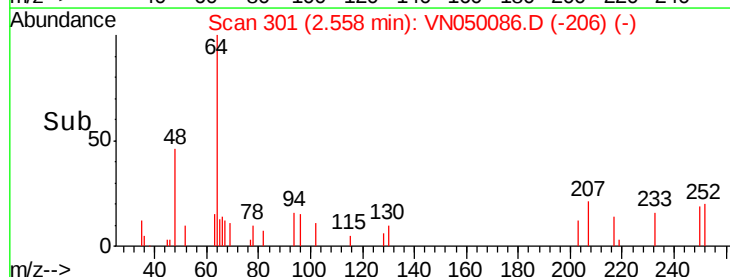
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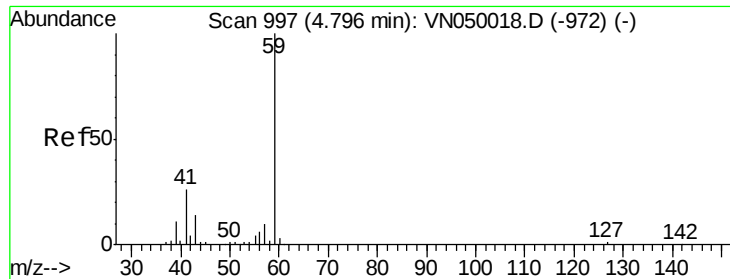
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100

0

Time-->

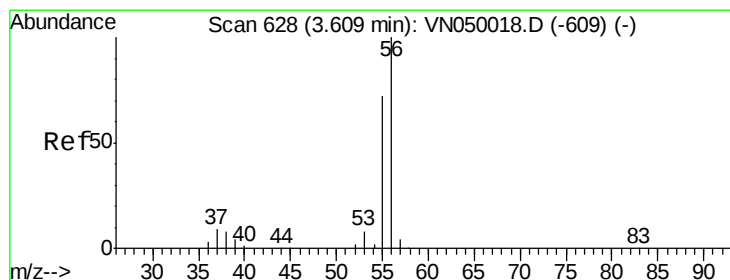
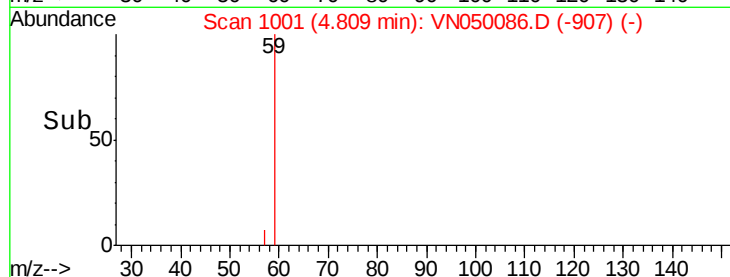
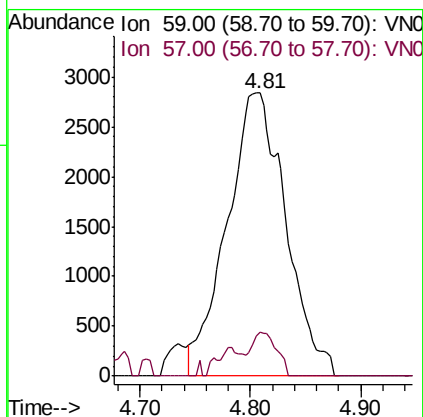
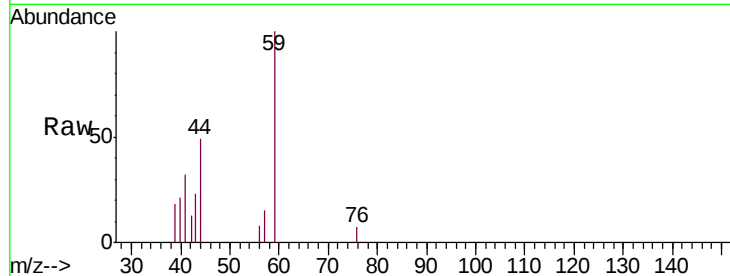




#11
Tert butyl alcohol
Concen: 13.80 ug/l
RT: 4.81 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

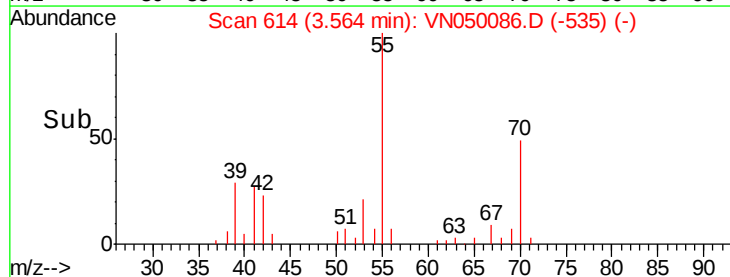
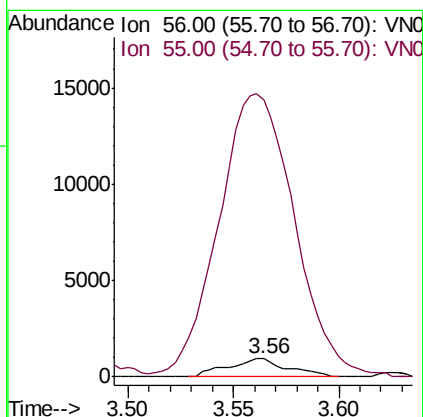
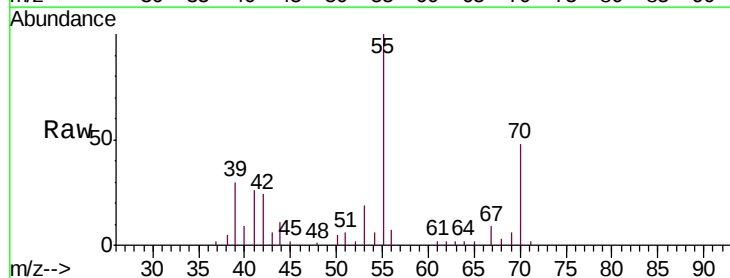
Instrument :
MSVOA_N
ClientSampled :
MW-7

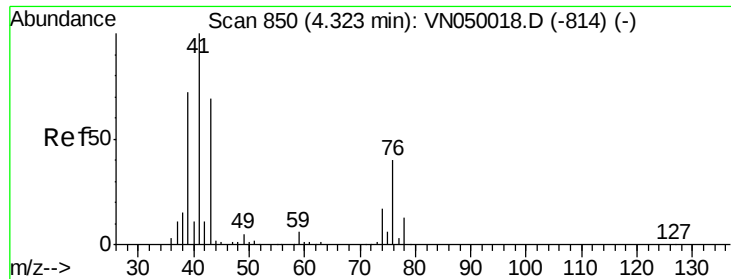
Tot Ion: 59 Resp: 10509
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 3.04 ug/l
RT: 3.56 min Scan# 614
Delta R.T. -0.04 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 56 Resp: 1862
Ion Ratio Lower Upper
56 100
55 1973.4 55.8 83.6#

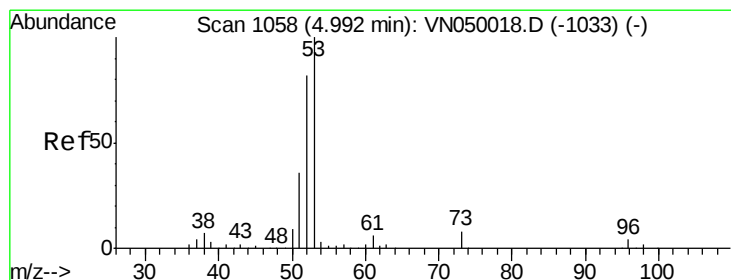
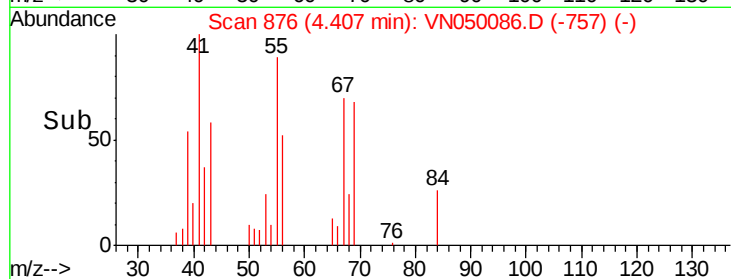
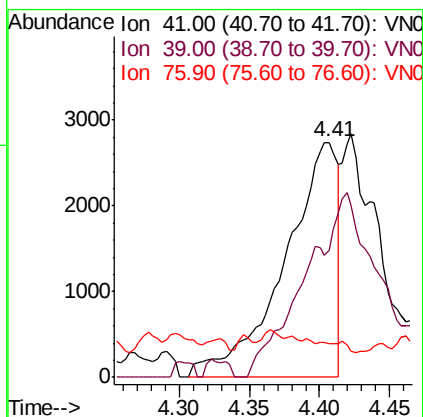
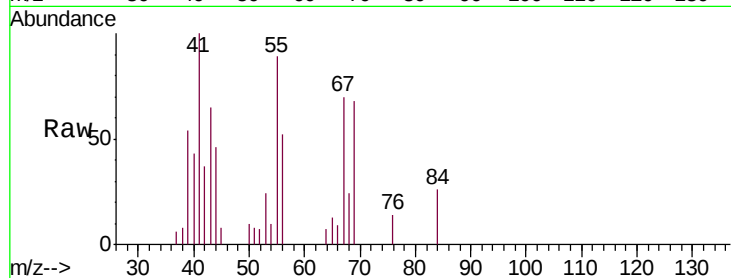




#14
Allvl chloride
Concen: 0.54 ug/l
RT: 4.41 min Scan# 876
Delta R.T. 0.08 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

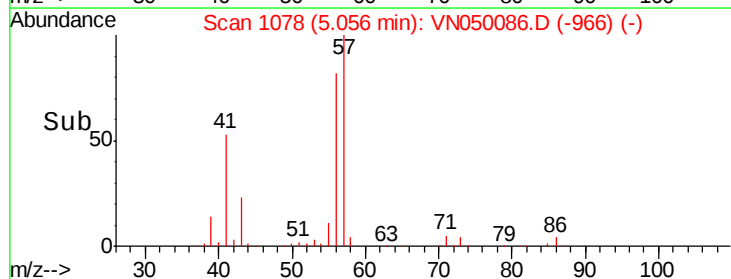
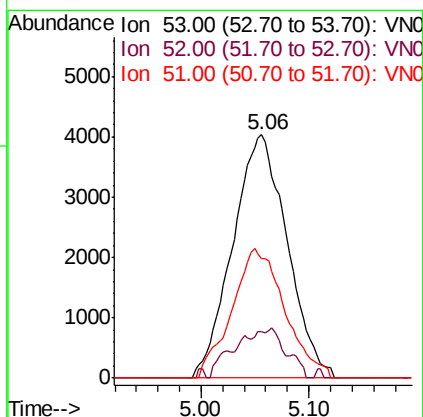
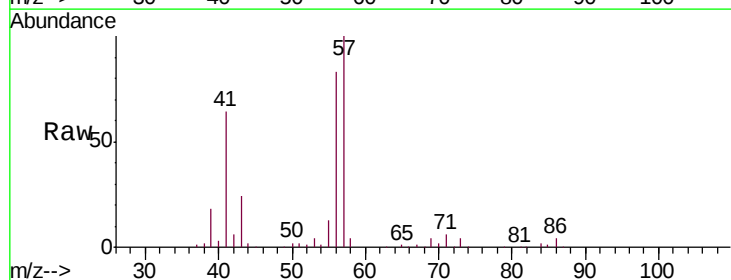
Instrument :
MSVOA_N
ClientSampled :
MW-7

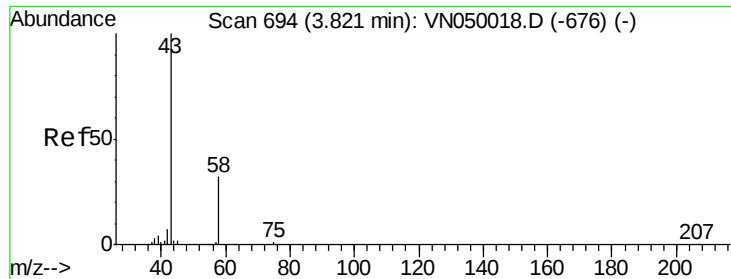
Tot Ion: 41 Resp: 7154
Ion Ratio Lower Upper
41 100
39 37.7 54.2 81.4#
76 0.0 29.0 43.6#



#15
Acrylonitrile
Concen: 4.26 ug/l
RT: 5.06 min Scan# 1078
Delta R.T. 0.06 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 53 Resp: 14140
Ion Ratio Lower Upper
53 100
52 7.9 66.2 99.2#
51 51.8 29.3 43.9#





#16

Acetone

Concen: 14.13 ug/l

RT: 3.80 min Scan# 686

Delta R.T. -0.03 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

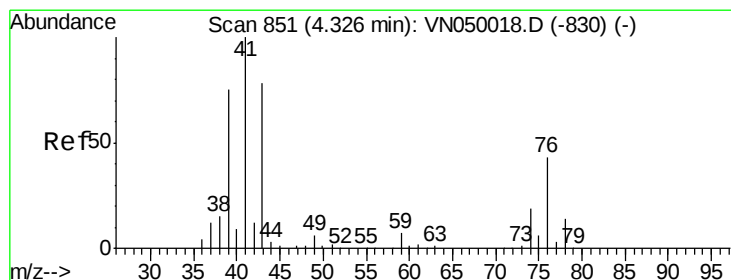
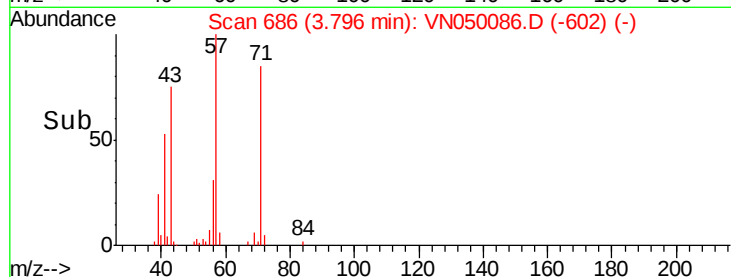
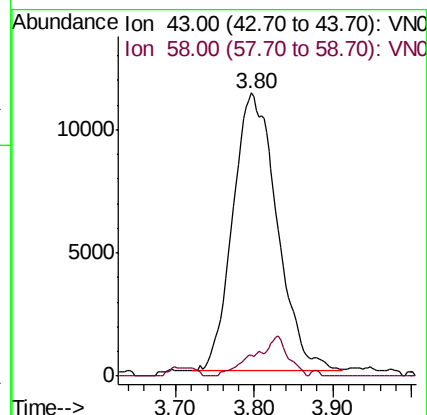
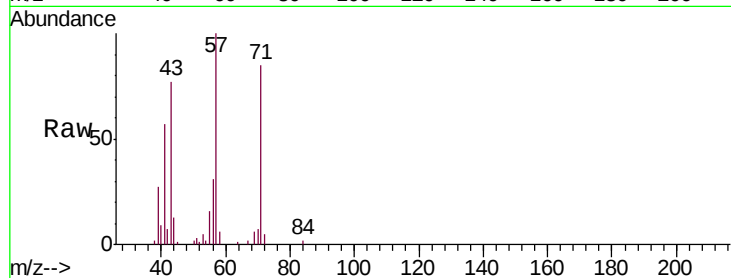
MW-7

Tot Ion: 43 Resp: 44439

Ion Ratio Lower Upper

43 100

58 7.5 25.8 38.8#



#18

Methyl Acetate

Concen: 49.59 ug/l

RT: 4.59 min Scan# 933

Delta R.T. 0.26 min

Lab File: VN050086.D

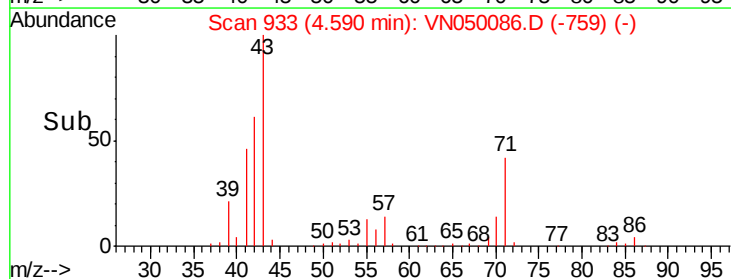
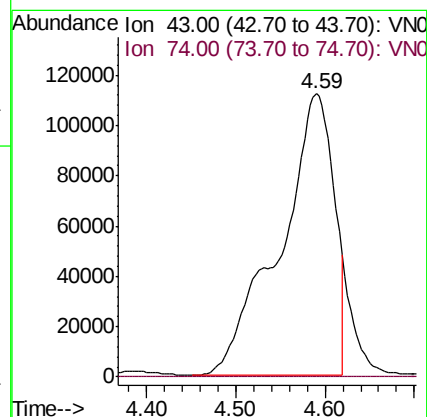
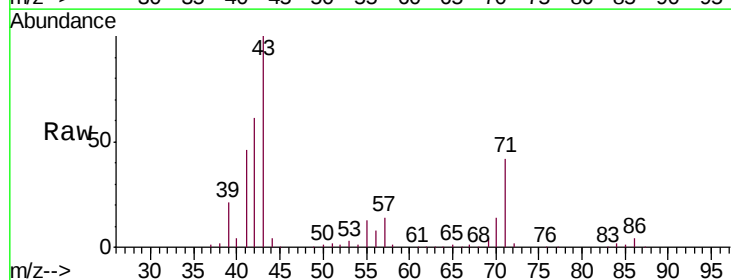
Acq: 26 Jul 2018 16:51

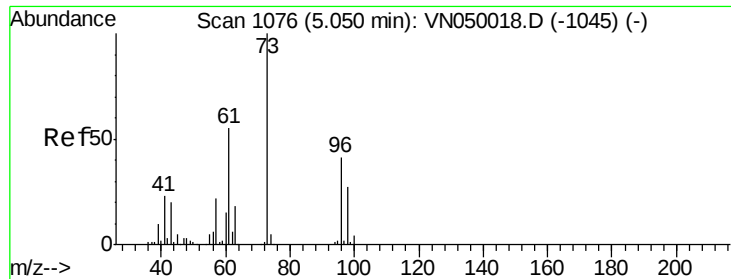
Tgt Ion: 43 Resp: 470370

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#19

Methyl tert-butyl Ether

Concen: 0.63 ug/l

RT: 5.07 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

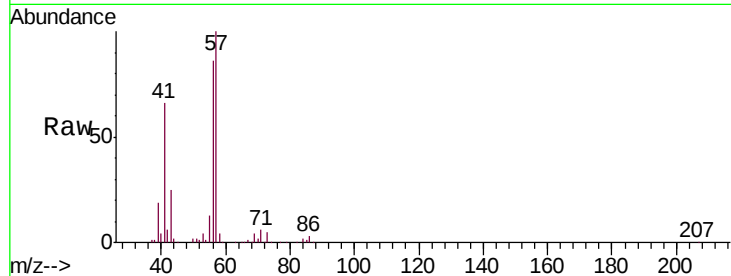
MW-7

Tot Ion: 73 Resp: 14310

Ion Ratio Lower Upper

73 100

57 1802.4 18.0 27.0#



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

100000

80000

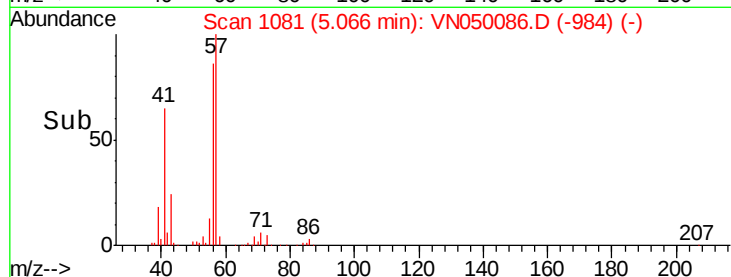
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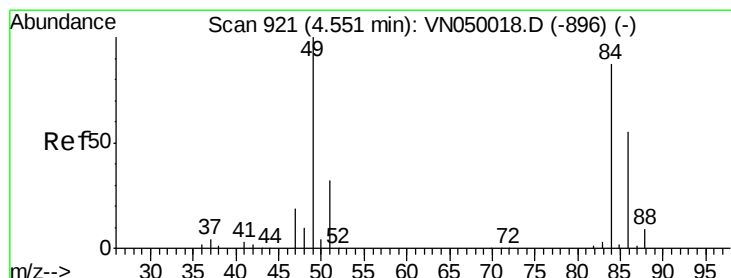
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0

Time-->



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 915

Delta R.T. -0.02 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Tgt Ion: 84 Resp: 2622

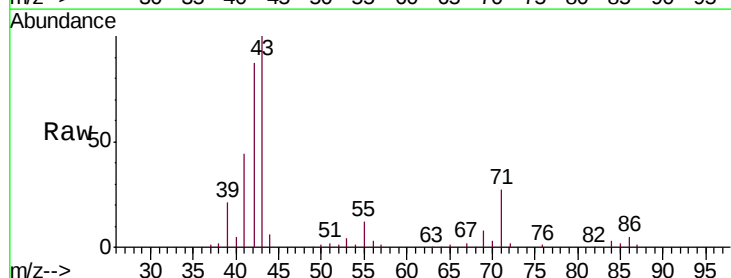
Ion Ratio Lower Upper

84 100

49 17.5 94.8 142.2#

51 80.9 28.3 42.5#

86 191.2 51.0 76.6#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4000

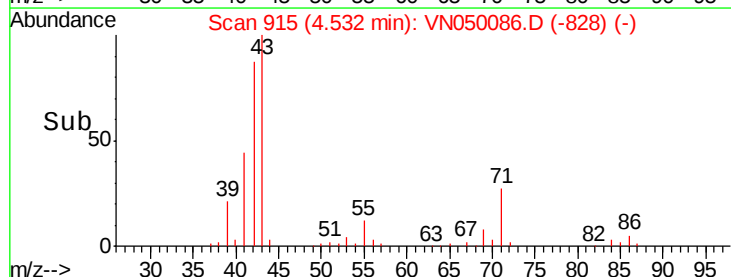
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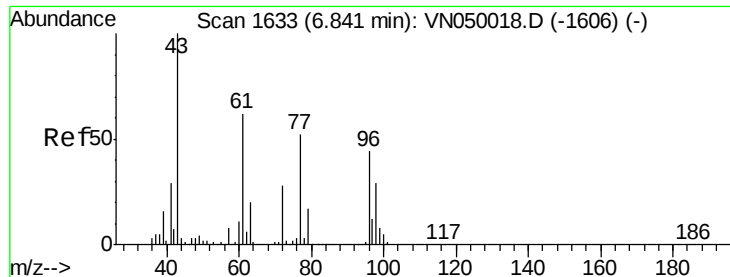
2000

1000

0

Time-->

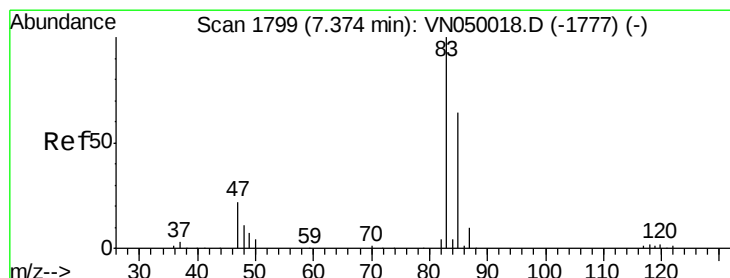
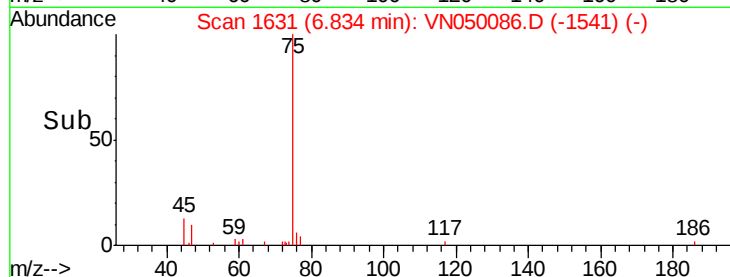
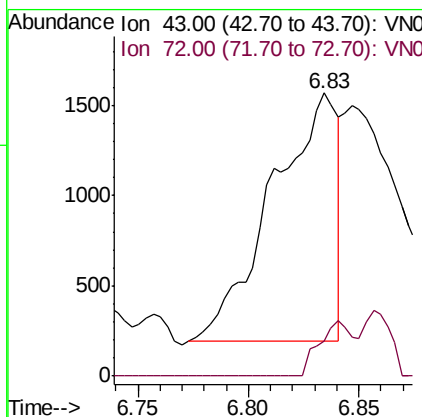
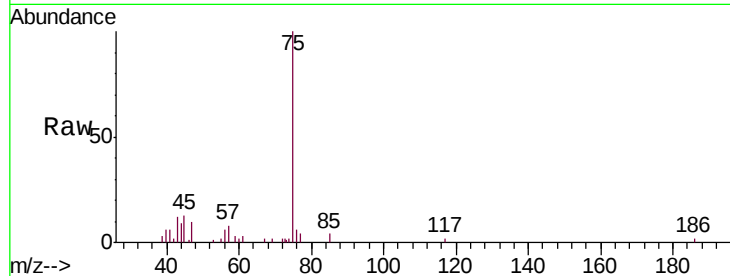




#25
2-Butanone
Concen: 0.72 ug/l
RT: 6.83 min Scan# 1631
Delta R.T. -0.01 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

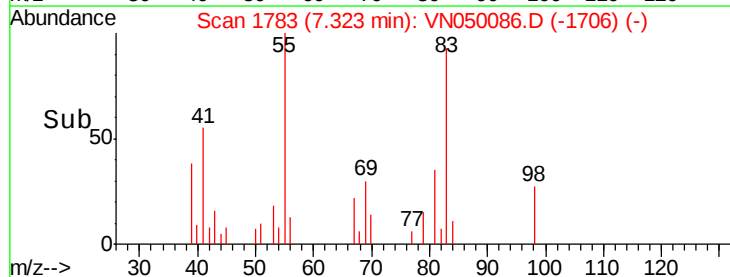
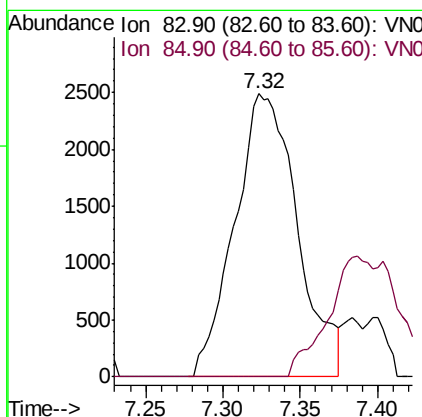
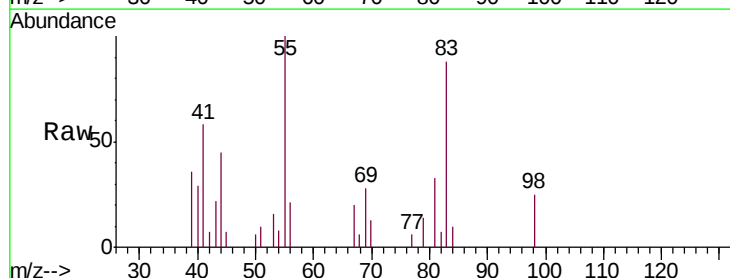
Instrument :
MSVOA_N
ClientSampled :
MW-7

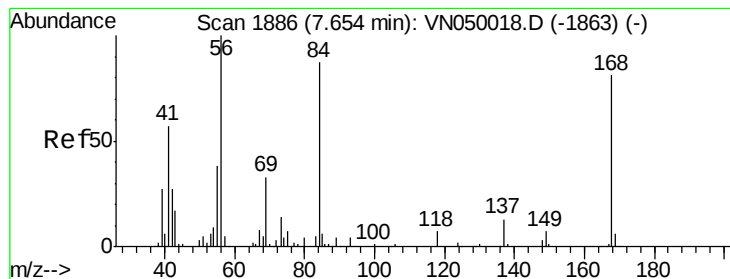
Tot Ion: 43 Resp: 2828
Ion Ratio Lower Upper
43 100
72 14.2 21.5 32.3#



#30
Chloroform
Concen: 0.40 ug/l
RT: 7.32 min Scan# 1783
Delta R.T. -0.05 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 83 Resp: 7006
Ion Ratio Lower Upper
83 100
85 0.0 52.5 78.7#





#31

Cyclohexane

Concen: 16.85 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

MW-7

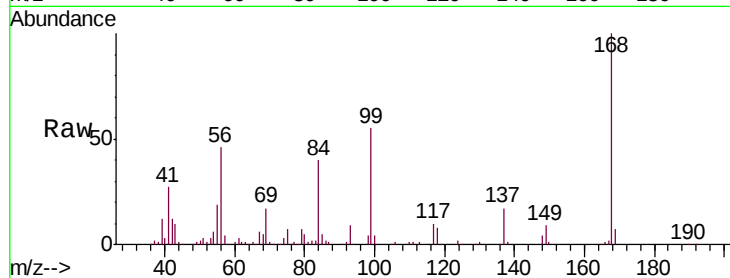
Tot Ion: 56 Resp: 240809

Ion Ratio Lower Upper

56 100

69 36.3 26.2 39.4

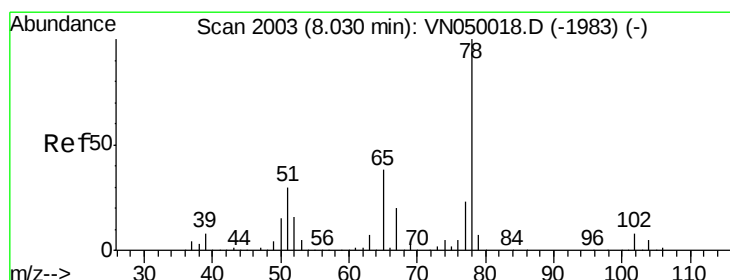
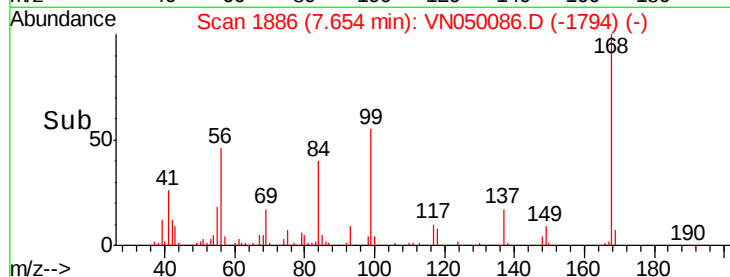
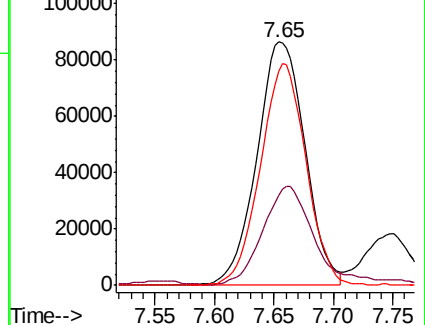
84 88.0 67.4 101.0



Abundance Ion 56.00 (55.70 to 56.70): VN050018.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN050018.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN050018.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 44.74 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050086.D

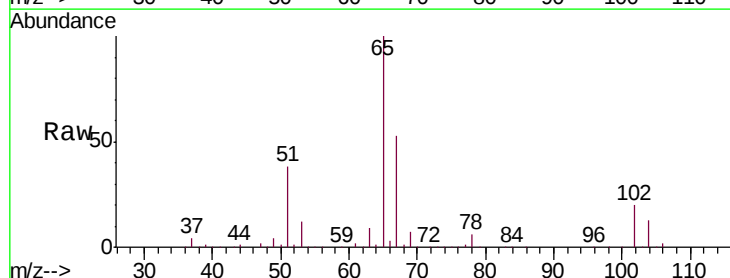
Acq: 26 Jul 2018 16:51

Tgt Ion: 65 Resp: 463054

Ion Ratio Lower Upper

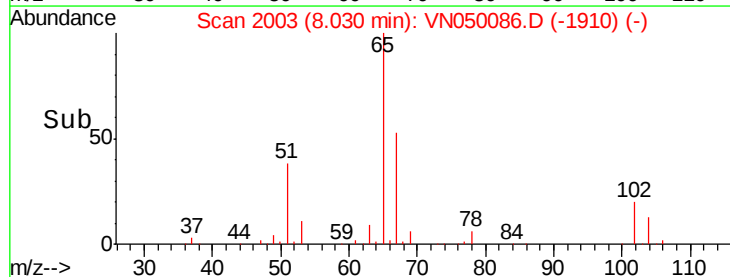
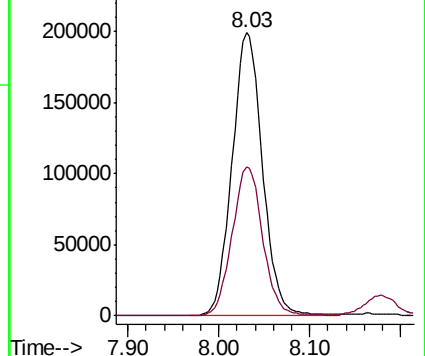
65 100

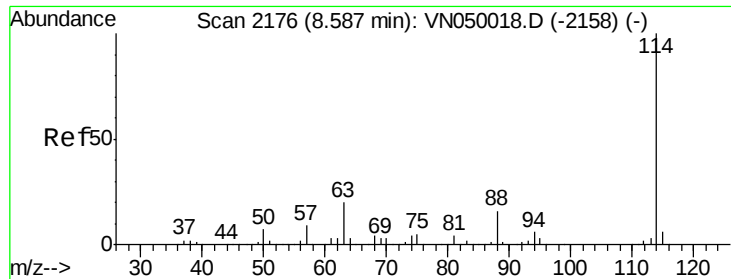
67 52.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050018.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050018.D (-1983) (-)

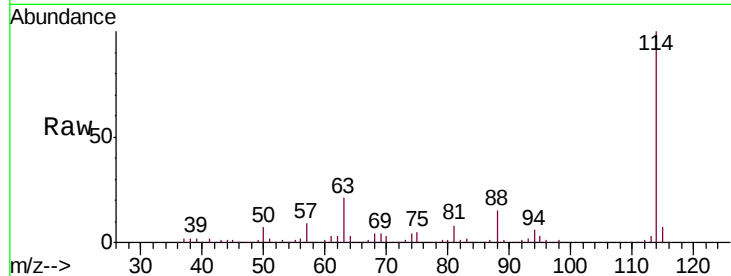




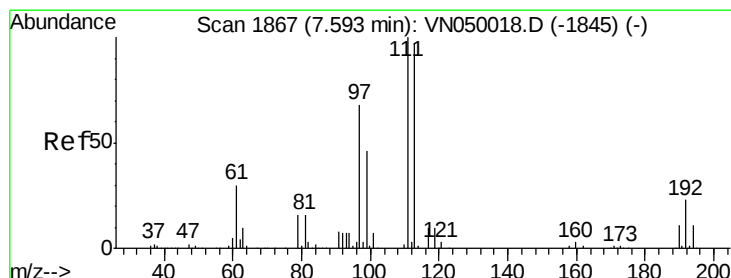
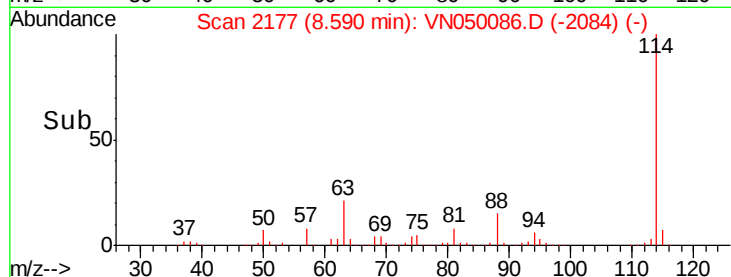
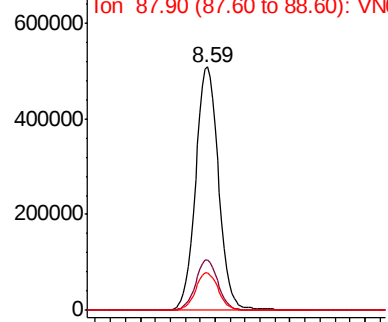
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Tot Ion:114 Resp: 1076044
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.0
 88 15.4 0.0 31.2

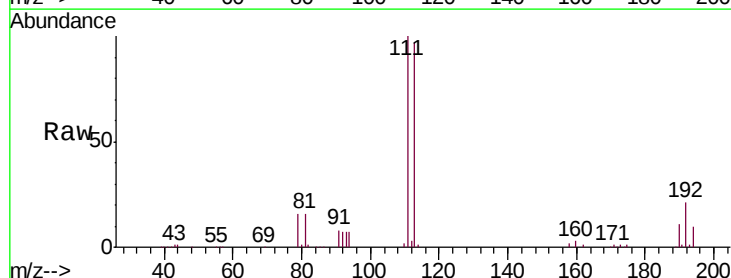


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

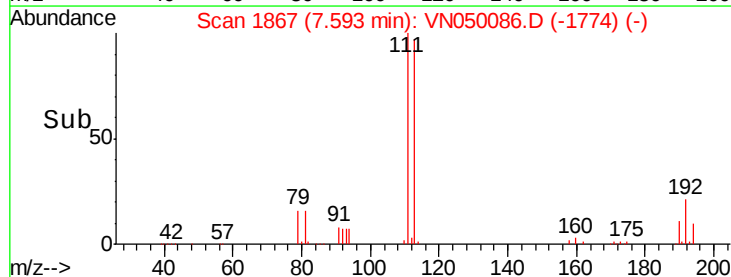
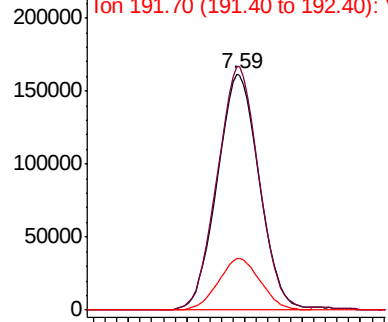


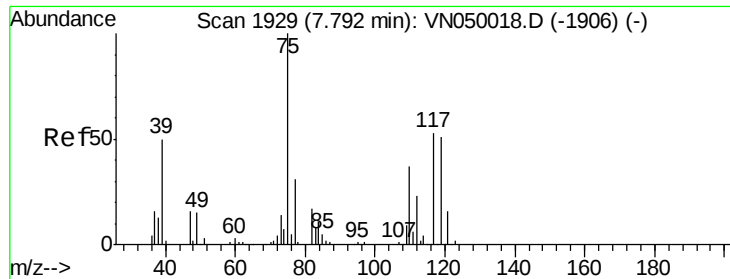
#35
 Dibromofluoromethane
 Concen: 46.39 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Tgt Ion:113 Resp: 407548
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 22.0 17.8 26.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.19 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampleId :

MW-7

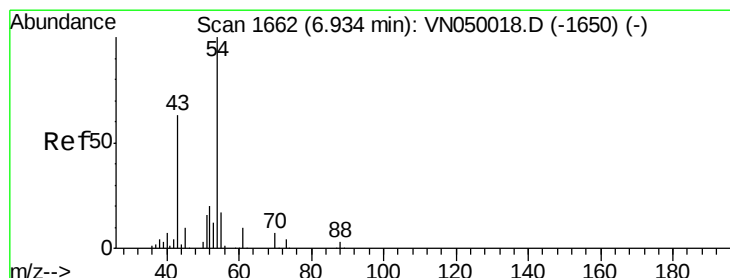
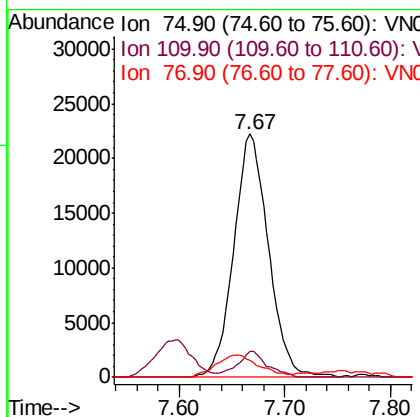
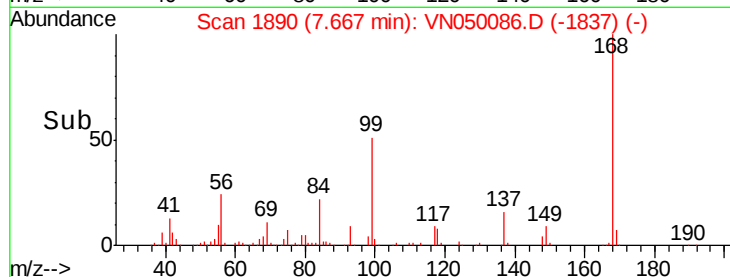
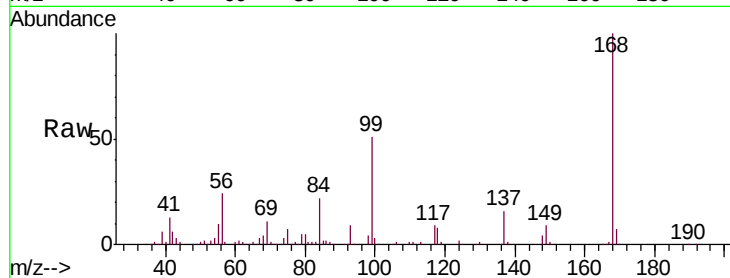
Tot Ion: 75 Resp: 50743

Ion Ratio Lower Upper

75 100

110 9.4 18.4 55.2#

77 11.5 25.3 37.9#



#37

Ethyl Acetate

Concen: 0.33 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. -0.10 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

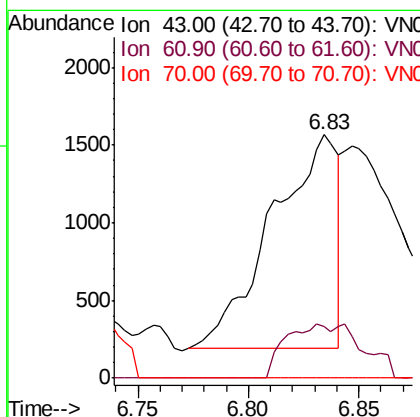
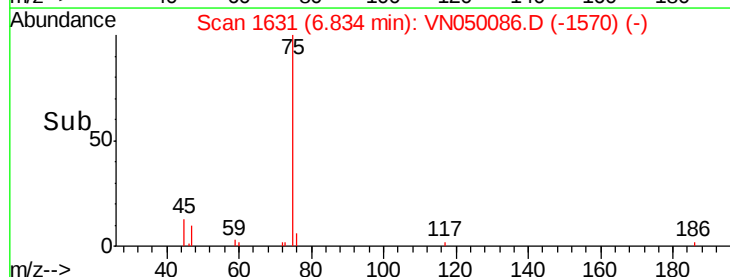
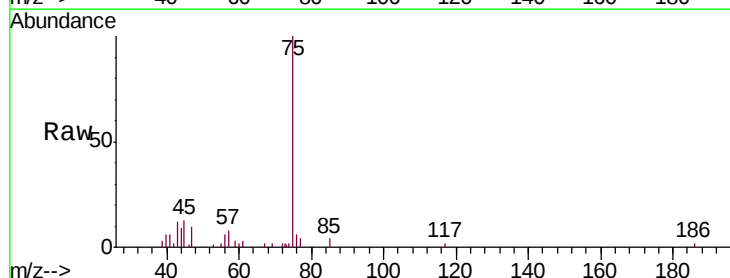
Tgt Ion: 43 Resp: 2828

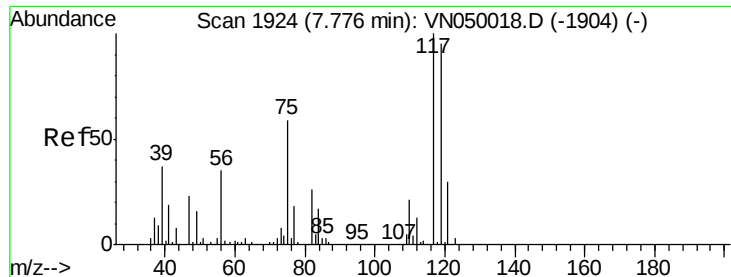
Ion Ratio Lower Upper

43 100

61 17.4 11.8 17.8

70 0.0 8.4 12.6#

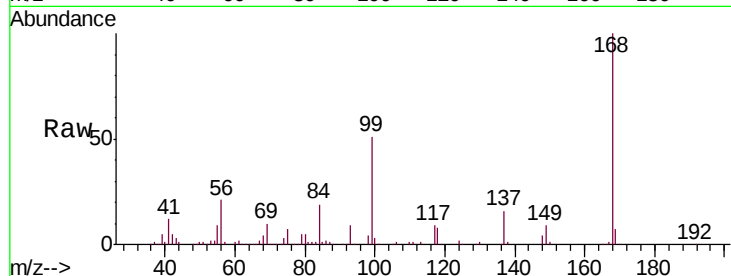




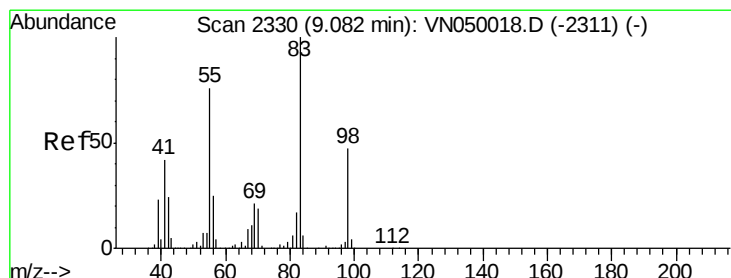
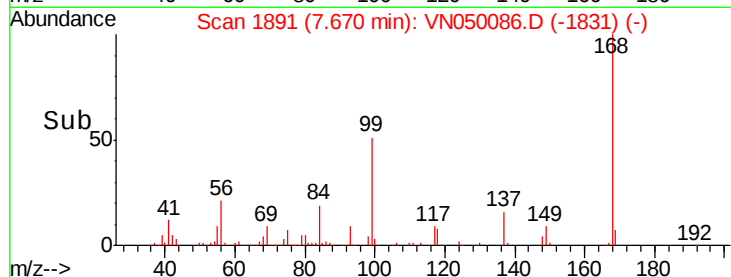
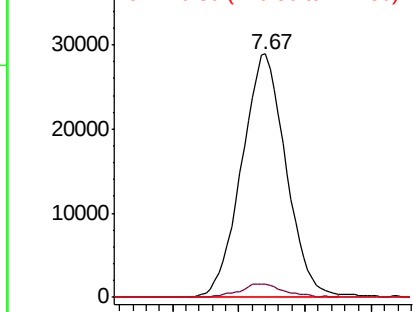
#38
Carbon Tetrachloride
Concen: 5.22 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Instrument :
MSVOA_N
ClientSampled :
MW-7

Tot Ion:117 Resp: 67105
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.0#
121 0.0 23.9 35.9#

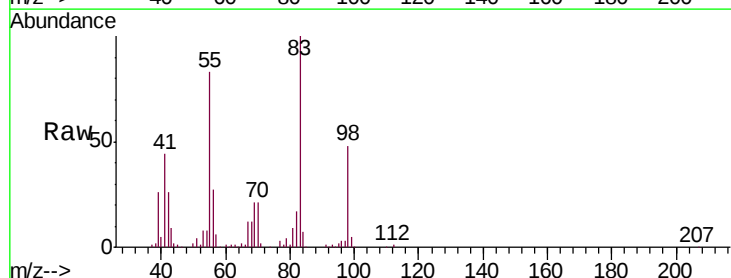


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

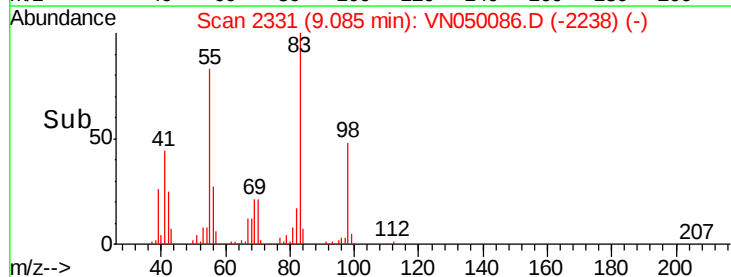
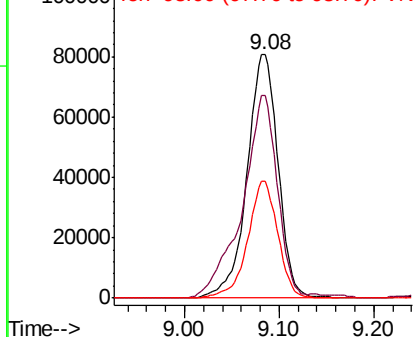


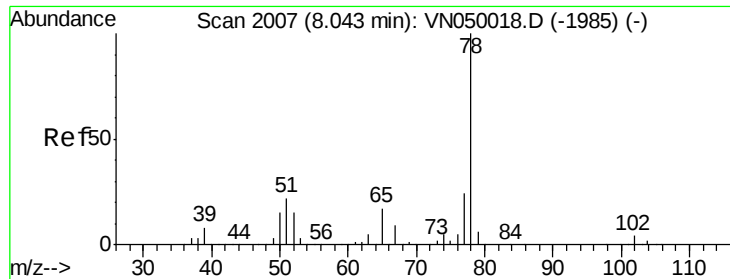
#39
Methylcyclohexane
Concen: 14.75 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 83 Resp: 183996
Ion Ratio Lower Upper
83 100
55 82.7 61.8 92.8
98 47.8 36.5 54.7



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





#40

Benzene

Concen: 1.16 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

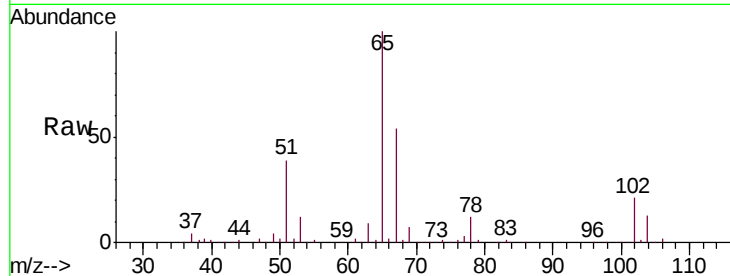
MW-7

Tot Ion: 78 Resp: 42736

Ion Ratio Lower Upper

78 100

77 22.7 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

8.04

20000

15000

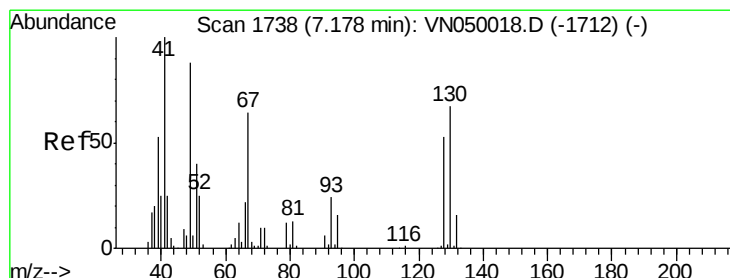
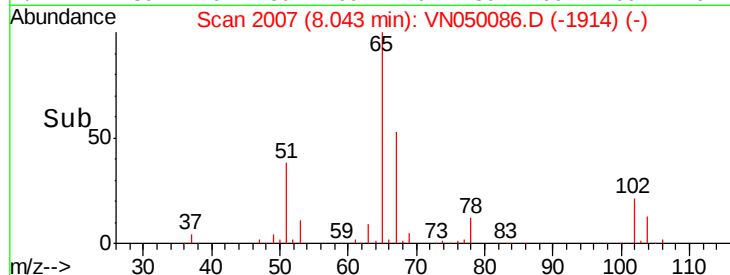
10000

5000

0

Time-->

8.00 8.10



#41

Methacrylonitrile

Concen: 2.81 ug/l

RT: 7.15 min Scan# 1729

Delta R.T. -0.02 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Tgt Ion: 41 Resp: 284

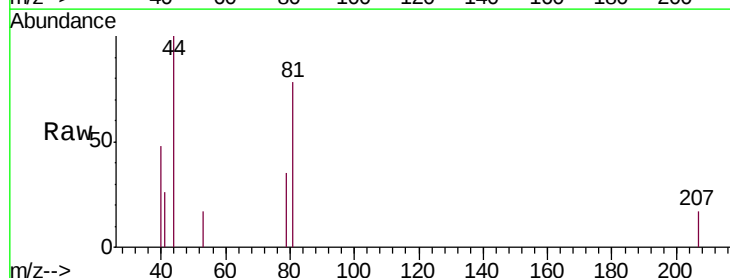
Ion Ratio Lower Upper

41 100

39 0.0 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

600

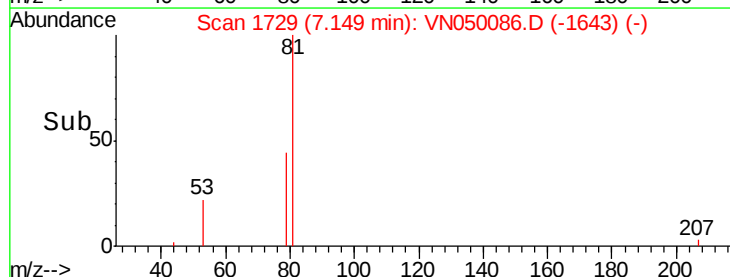
400

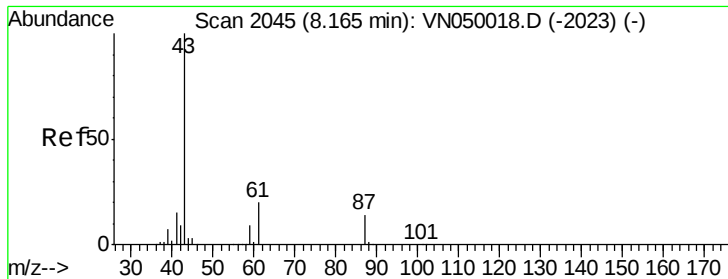
200

0

Time-->

7.13 7.14 7.15 7.16



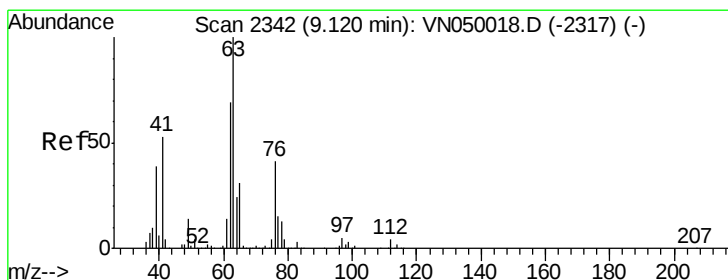
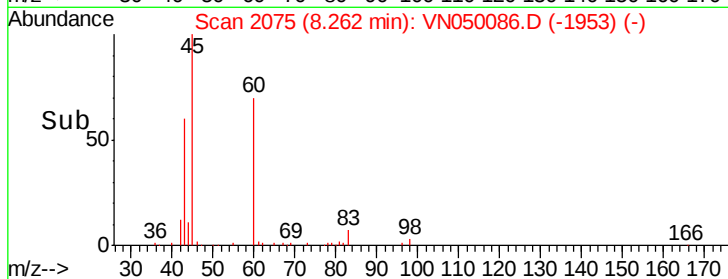
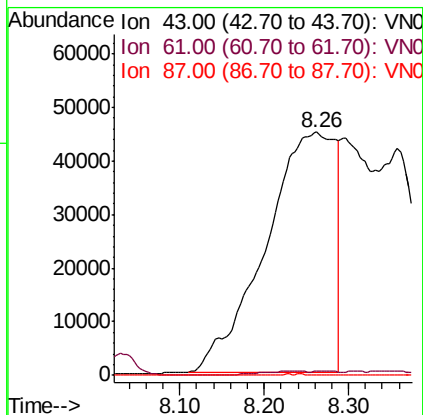
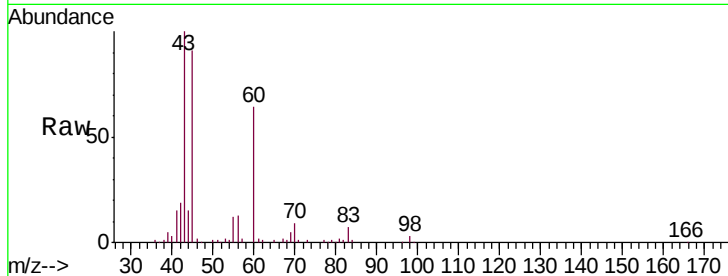


#43

Isopropyl Acetate
 Concen: 15.29 ug/l
 RT: 8.26 min Scan# 2075
 Delta R.T. 0.09 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Instrument :
 MSVOA_N
 ClientSampled :
 MW-7

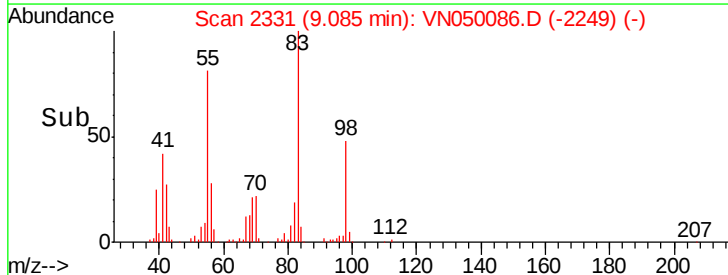
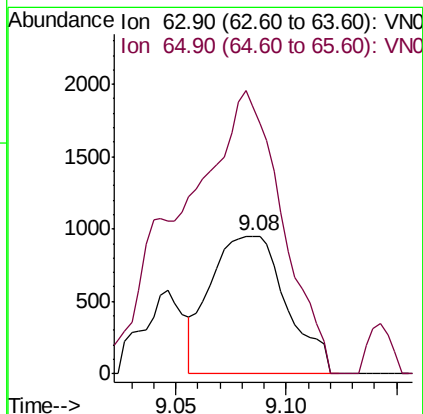
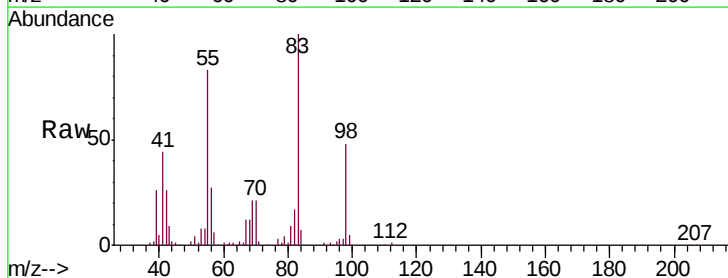
Tot Ion: 43 Resp: 256122
 Ion Ratio Lower Upper
 43 100
 61 0.0 15.8 23.6#
 87 0.1 10.3 15.5#

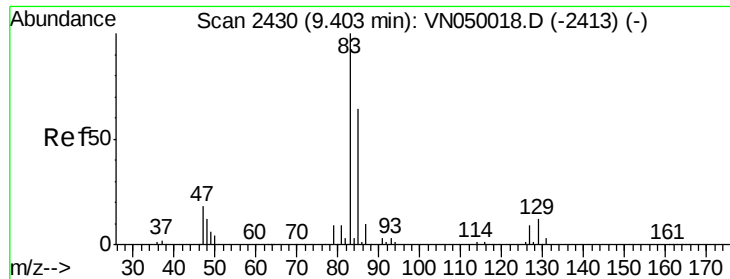


#45

1,2-Dichloropropane
 Concen: 0.23 ug/l
 RT: 9.08 min Scan# 2331
 Delta R.T. -0.04 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Tgt Ion: 63 Resp: 2270
 Ion Ratio Lower Upper
 63 100
 65 194.7 25.5 38.3#





#47

Bromodichloromethane

Concen: 0.23 ug/l

RT: 9.39 min Scan# 2426

Delta R.T. -0.02 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampleId :

MW-7

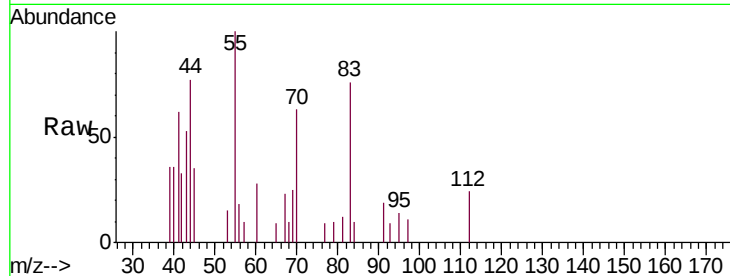
Tot Ion: 83 Resp: 2973

Ion Ratio Lower Upper

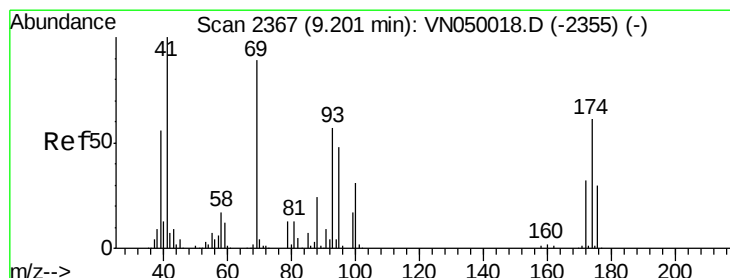
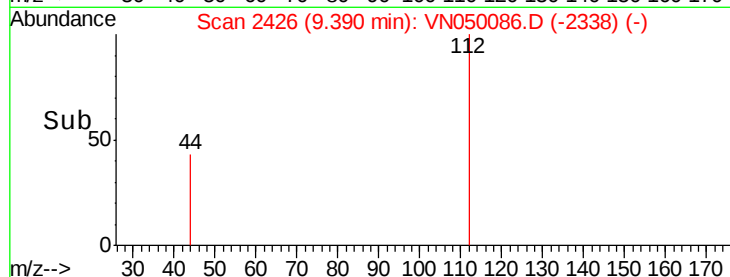
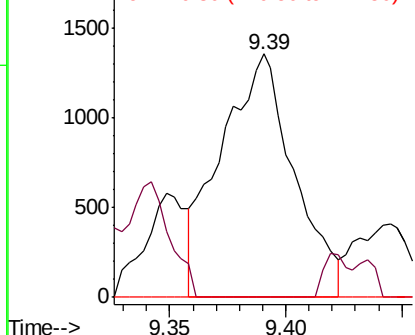
83 100

85 0.0 51.1 76.7#

127 0.0 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 2.37 ug/l

RT: 9.27 min Scan# 2389

Delta R.T. 0.07 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

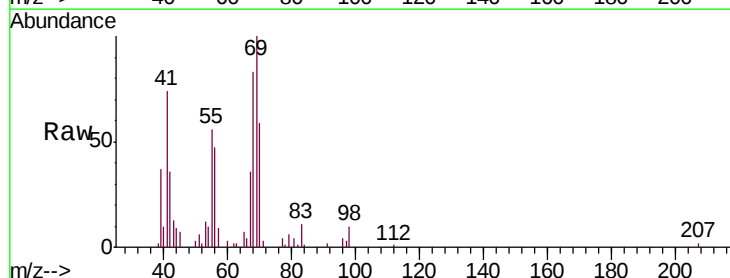
Tgt Ion: 41 Resp: 17255

Ion Ratio Lower Upper

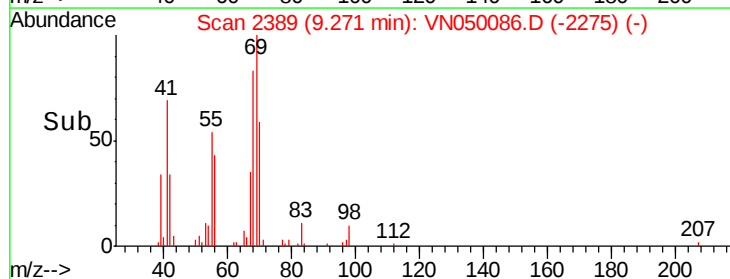
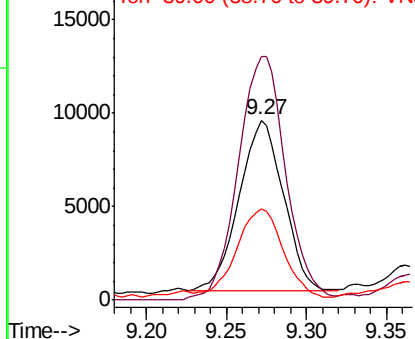
41 100

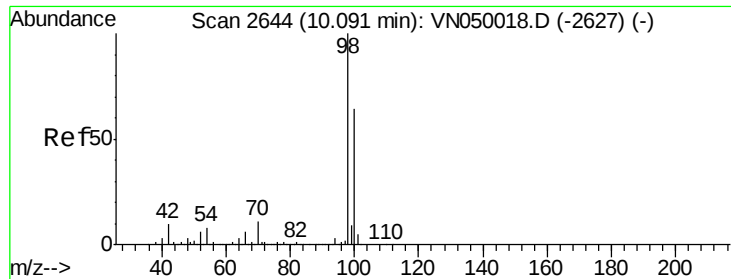
69 153.7 70.6 105.8#

39 53.7 43.9 65.9



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 47.09 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampleId :

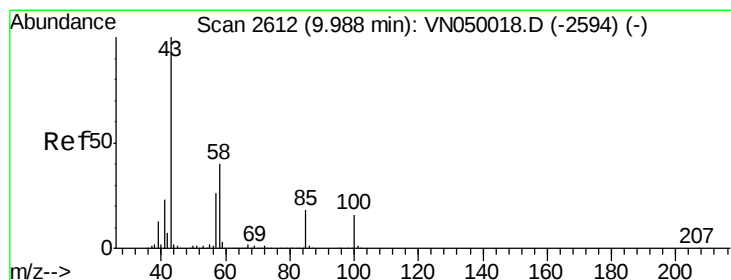
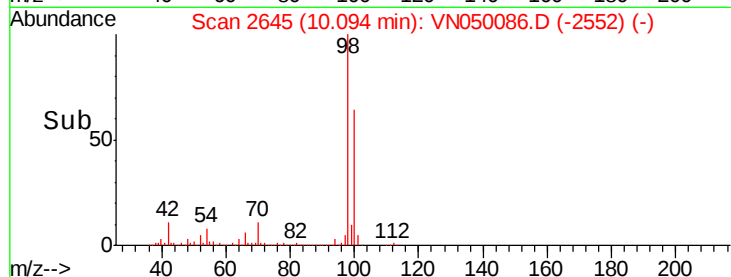
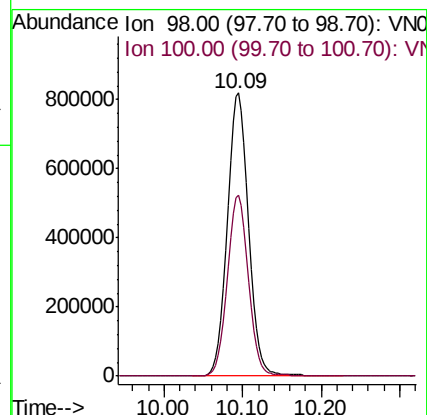
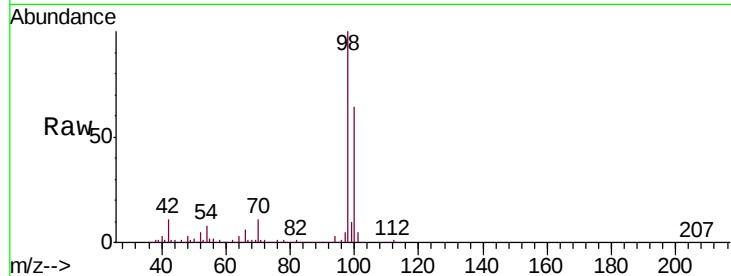
MW-7

Tot Ion: 98 Resp: 1520887

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050086.D

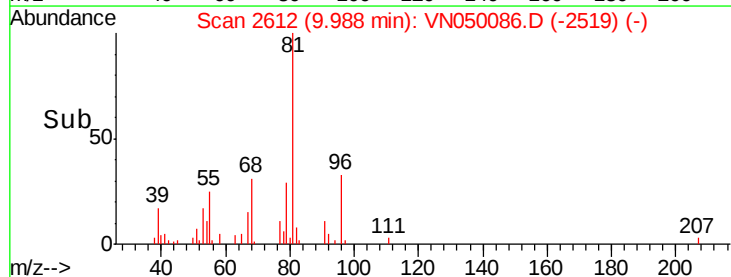
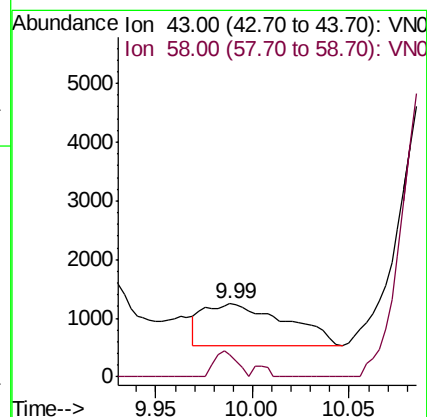
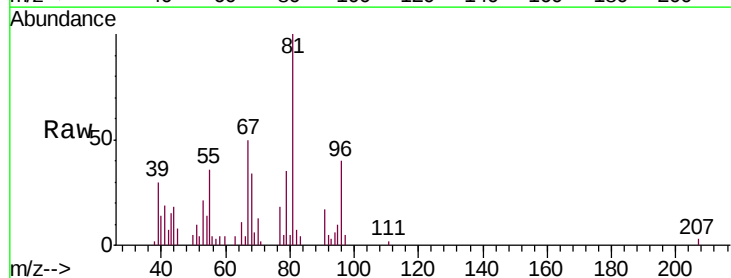
Acq: 26 Jul 2018 16:51

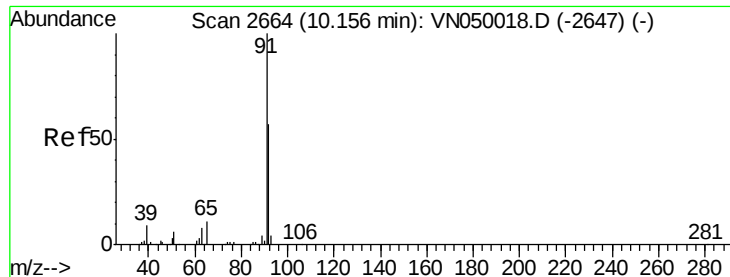
Tgt Ion: 43 Resp: 2185

Ion Ratio Lower Upper

43 100

58 0.0 31.9 47.9#





#52

Toluene

Concen: 0.43 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

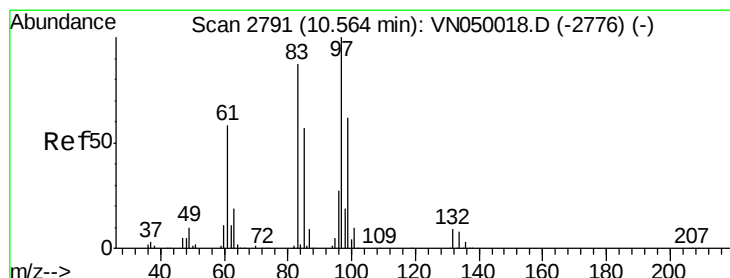
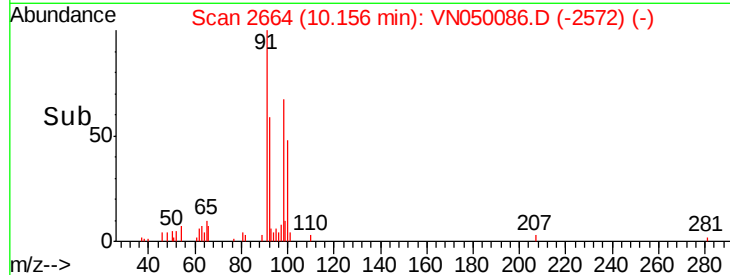
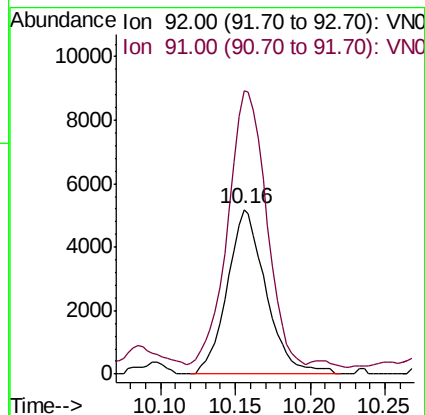
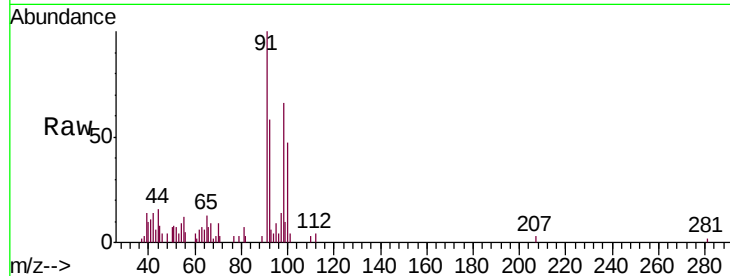
MW-7

Tot Ion: 92 Resp: 9362

Ion Ratio Lower Upper

92 100

91 164.7 140.3 210.5



#55

1,1,2-Trichloroethane

Concen: 3.07 ug/l

RT: 10.53 min Scan# 2781

Delta R.T. -0.04 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Tgt Ion: 97 Resp: 26479

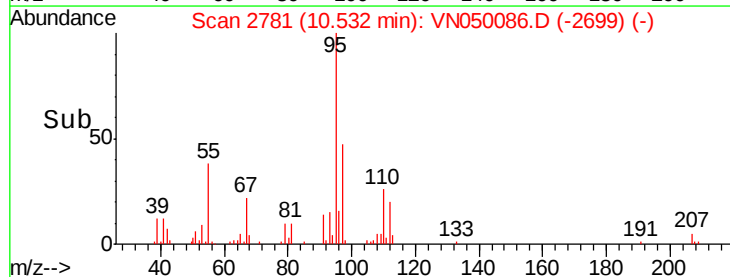
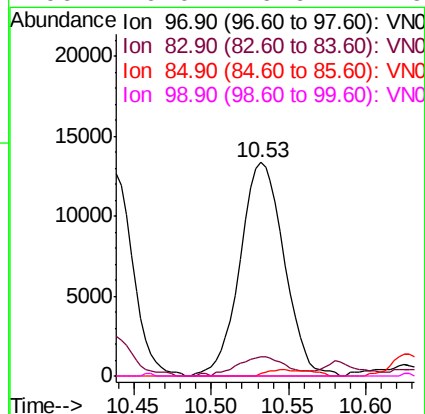
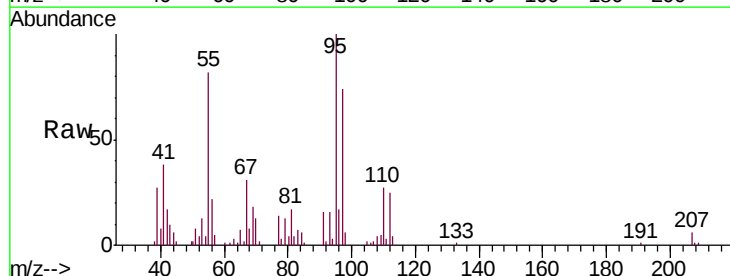
Ion Ratio Lower Upper

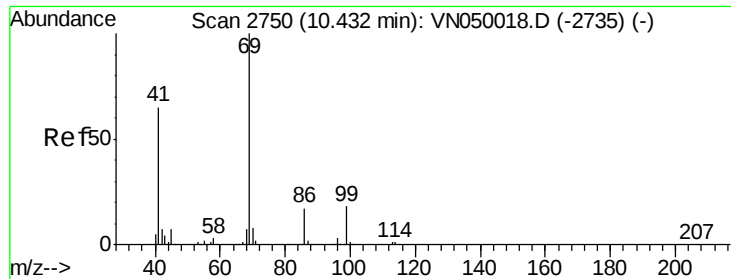
97 100

83 9.0 69.2 103.8#

85 1.5 44.0 66.0#

99 0.0 49.9 74.9#





#56

Ethyl methacrylate

Concen: 2.73 ug/l

RT: 10.44 min Scan# 2751

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

MW-7

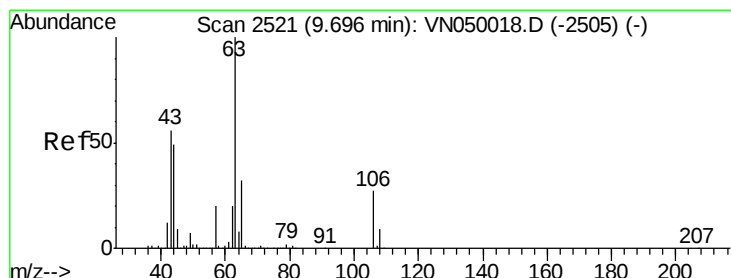
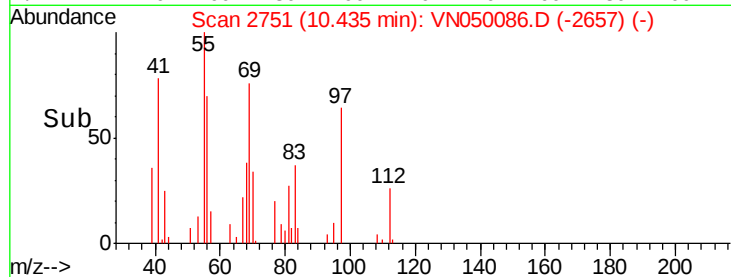
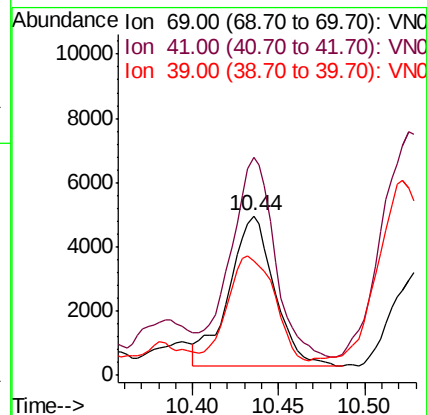
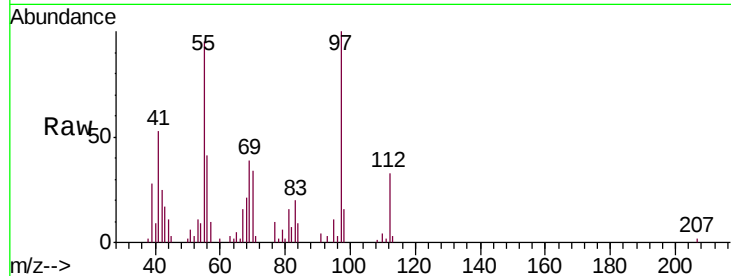
Tot Ion: 69 Resp: 8568

Ion Ratio Lower Upper

69 100

41 128.5 51.0 76.4#

39 70.8 26.6 40.0#



#58

2-Chloroethyl Vinyl ether

Concen: 8.55 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050086.D

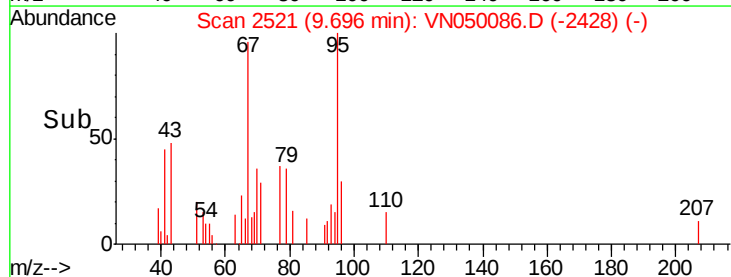
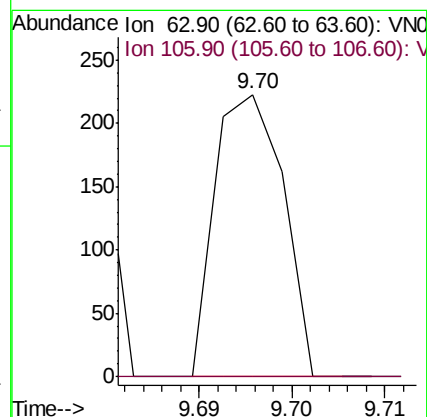
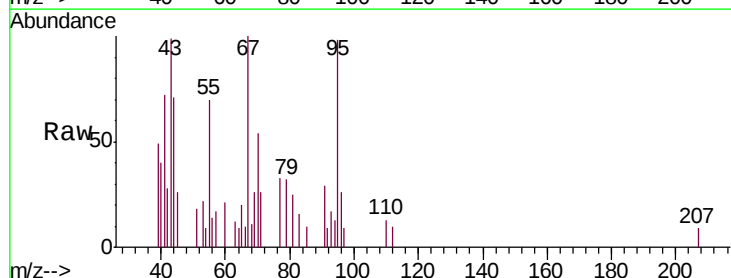
Acq: 26 Jul 2018 16:51

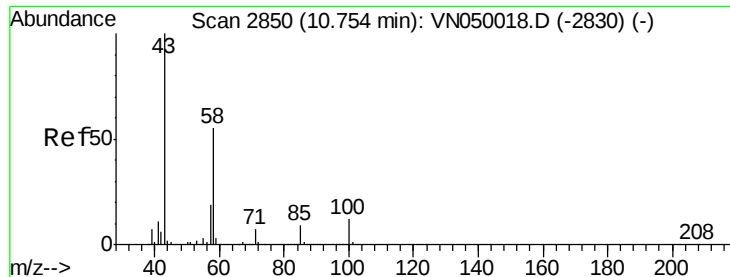
Tgt Ion: 63 Resp: 114

Ion Ratio Lower Upper

63 100

106 0.0 21.7 32.5#

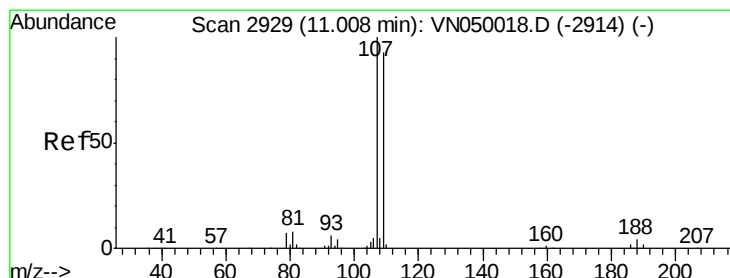
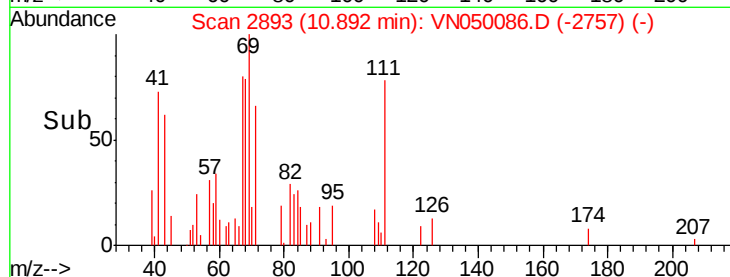
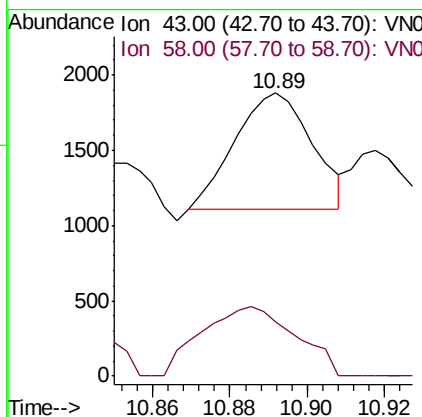
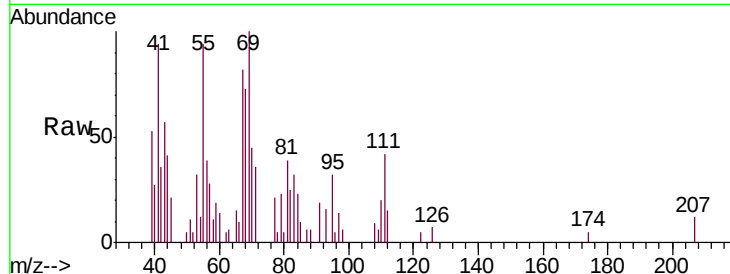




#59
2-Hexanone
Concen: 5.35 ug/l
RT: 10.89 min Scan# 2893
Delta R.T. 0.14 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

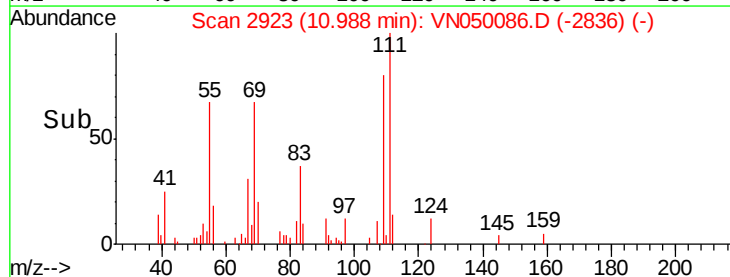
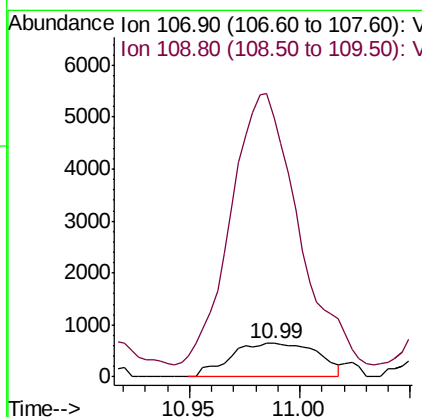
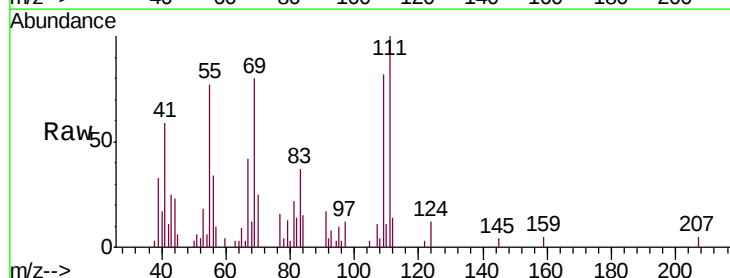
Instrument :
MSVOA_N
ClientSampled :
MW-7

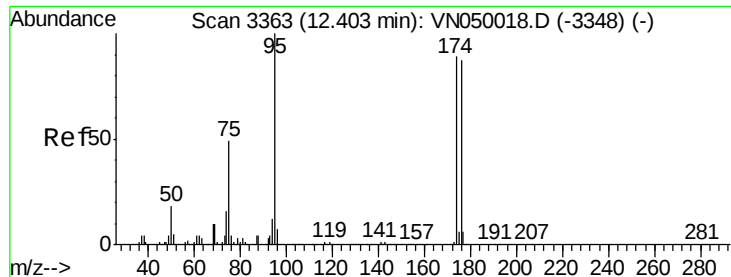
Tot Ion: 43 Resp: 1076
Ion Ratio Lower Upper
43 100
58 73.0 27.6 82.7



#61
1,2-Dibromoethane
Concen: 0.21 ug/l
RT: 10.99 min Scan# 2923
Delta R.T. -0.02 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 107 Resp: 1779
Ion Ratio Lower Upper
107 100
109 618.5 74.6 112.0#

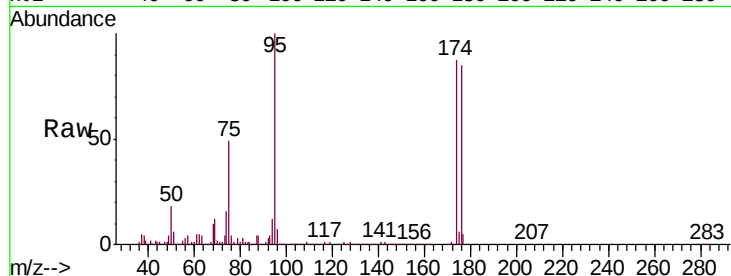




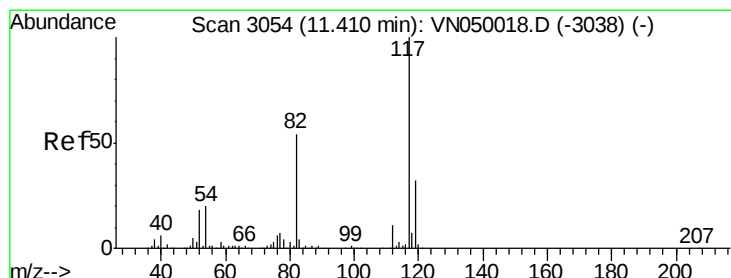
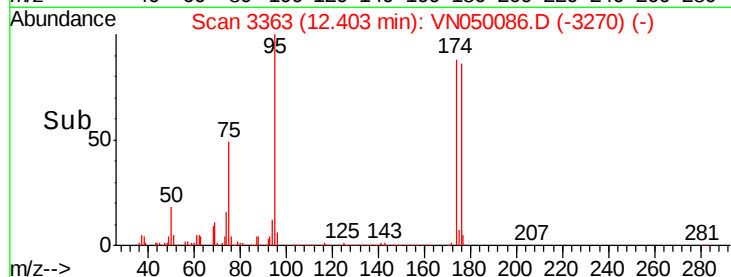
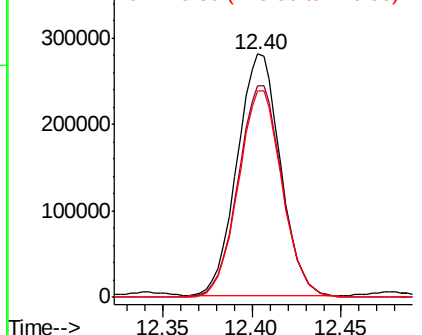
#62
4-Bromofluorobenzene
Concen: 44.72 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Instrument :
MSVOA_N
ClientSampled :
MW-7

Tot Ion: 95 Resp: 475569
Ion Ratio Lower Upper
95 100
174 88.8 0.0 178.2
176 86.3 0.0 173.4

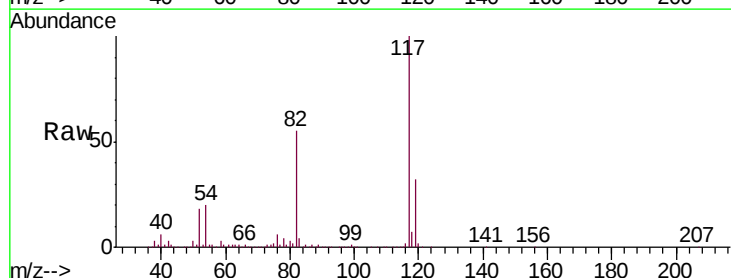


Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)
Ion 173.80 (173.50 to 174.50): VN050018.D (-3348) (-)
Ion 175.80 (175.50 to 176.50): VN050018.D (-3348) (-)

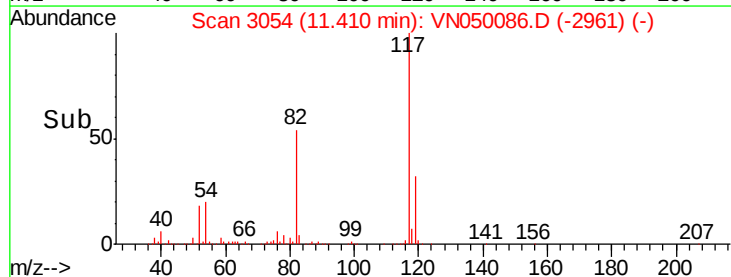
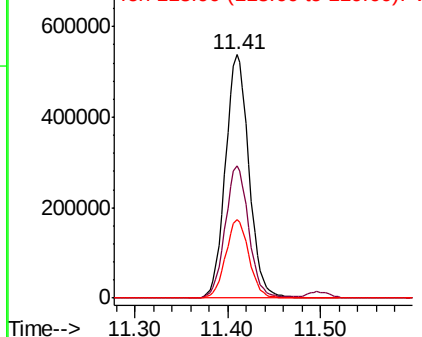


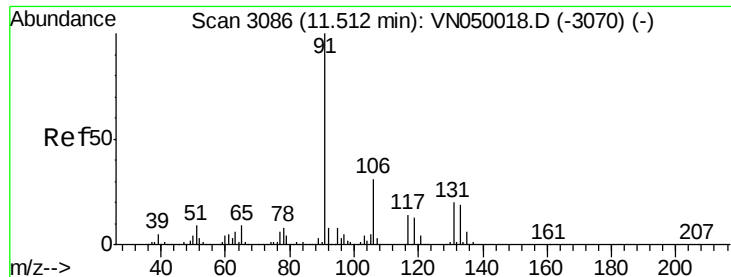
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion: 117 Resp: 943759
Ion Ratio Lower Upper
117 100
82 54.4 43.7 65.5
119 32.3 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)
Ion 82.00 (81.70 to 82.70): VN050018.D (-3038) (-)
Ion 118.90 (118.60 to 119.60): VN050018.D (-3038) (-)





#67

Ethyl Benzene

Concen: 3.63 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

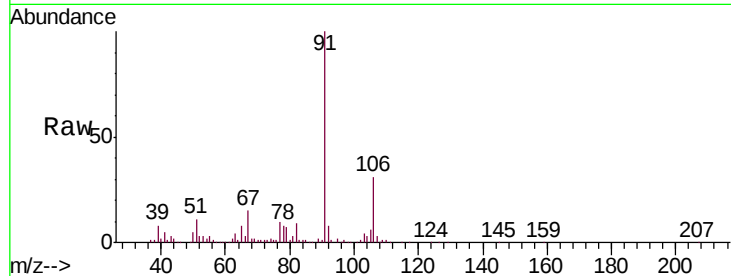
MW-7

Tot Ion: 91 Resp: 138843

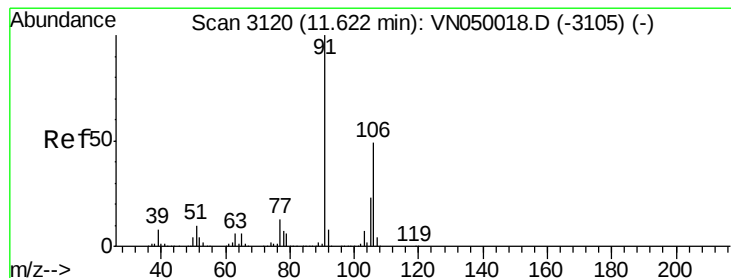
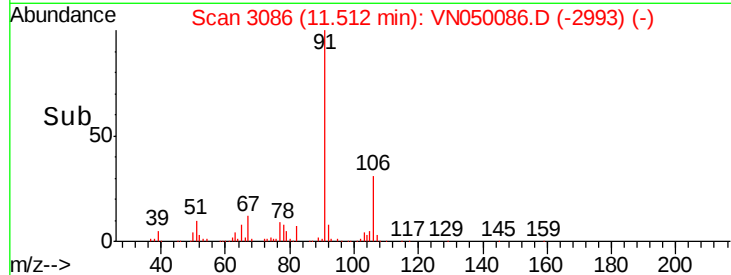
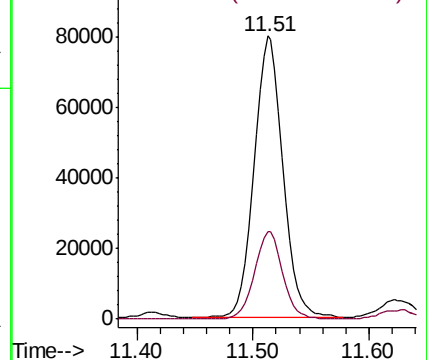
Ion Ratio Lower Upper

91 100

106 31.0 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VN050018.D (-3070) (-)



#68

m/p-Xylenes

Concen: 0.38 ug/l

RT: 11.63 min Scan# 3122

Delta R.T. 0.00 min

Lab File: VN050086.D

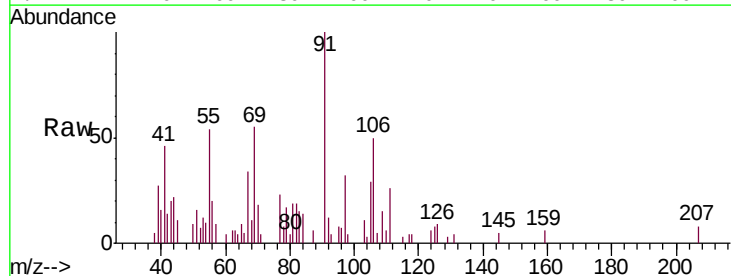
Acq: 26 Jul 2018 16:51

Tgt Ion: 106 Resp: 5489

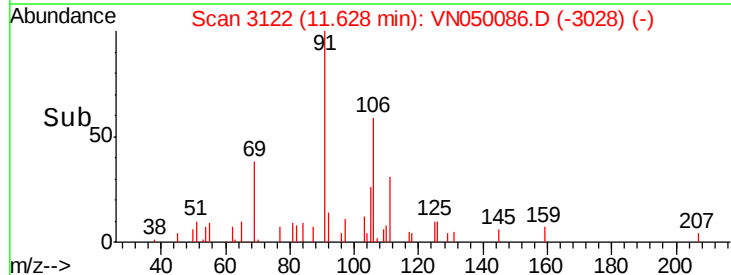
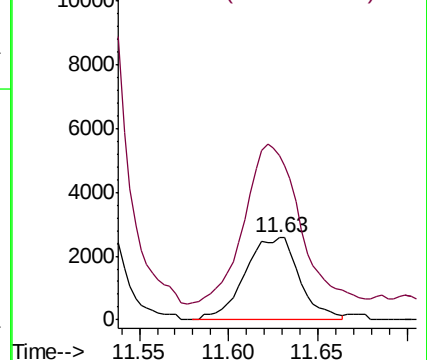
Ion Ratio Lower Upper

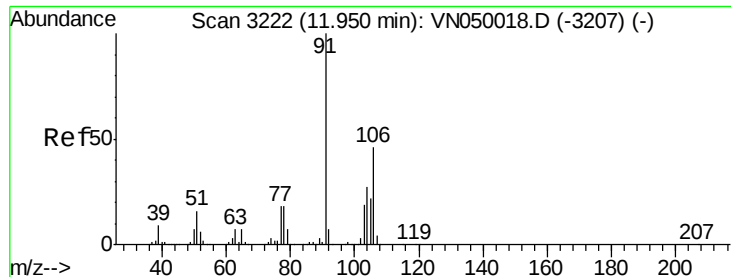
106 100

91 197.8 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): VN050018.D (-3105) (-)

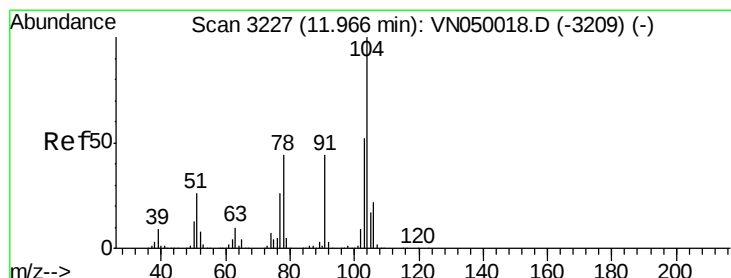
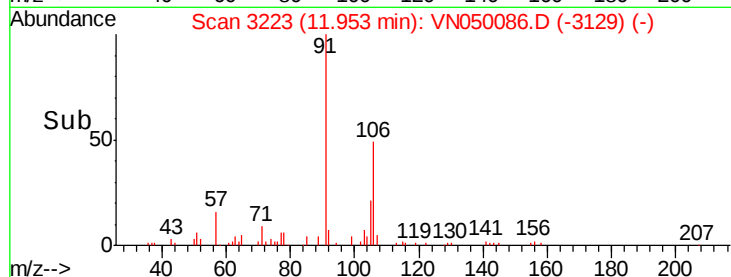
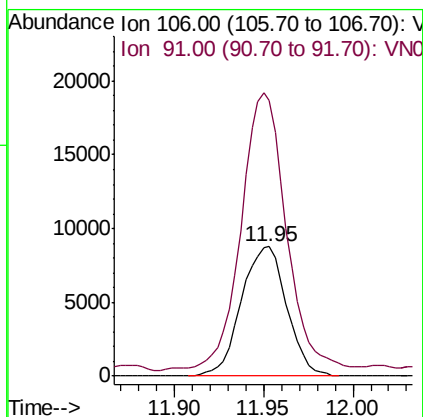
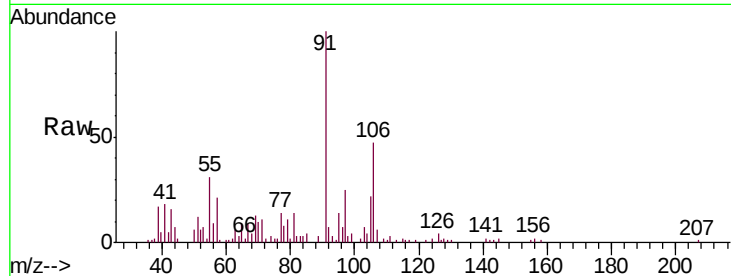




#69
o-Xylene
Concen: 1.13 ug/l
RT: 11.95 min Scan# 3223
Delta R.T. 0.00 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

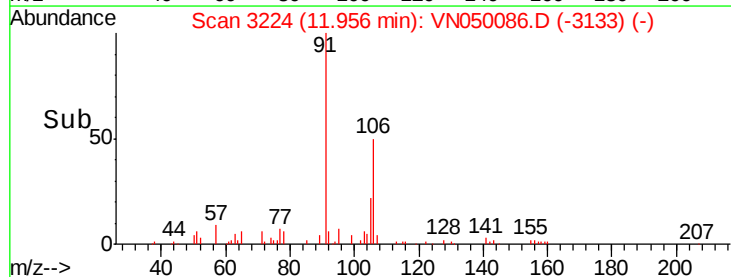
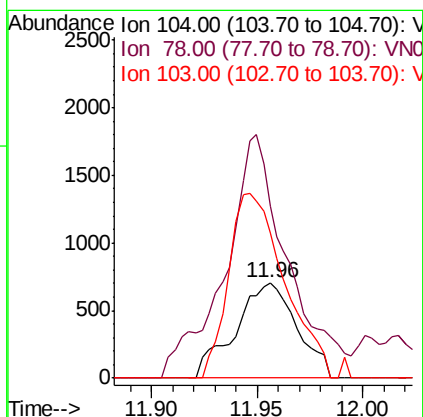
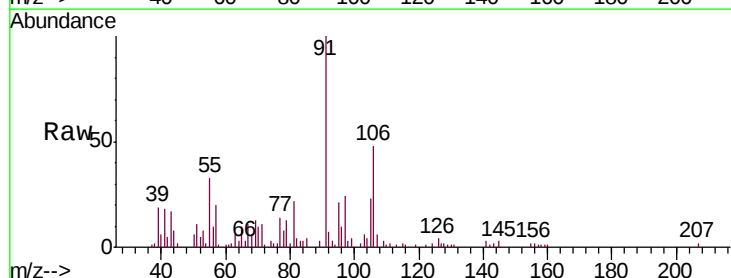
Instrument :
MSVOA_N
ClientSampled :
MW-7

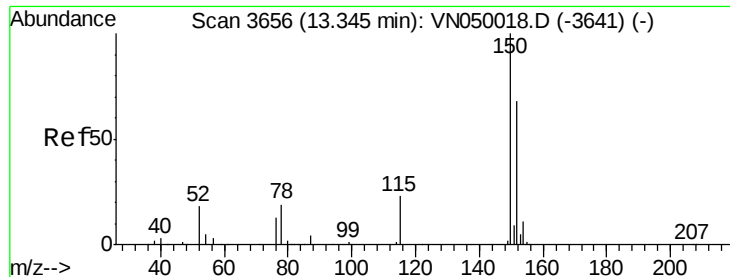
Tot Ion:106 Resp: 15578
Ion Ratio Lower Upper
106 100
91 214.7 107.7 323.1



#70
Styrene
Concen: 0.98 ug/l
RT: 11.96 min Scan# 3224
Delta R.T. -0.01 min
Lab File: VN050086.D
Acq: 26 Jul 2018 16:51

Tgt Ion:104 Resp: 1430
Ion Ratio Lower Upper
104 100
78 260.6 39.3 58.9#
103 176.6 45.0 67.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampleId :

MW-7

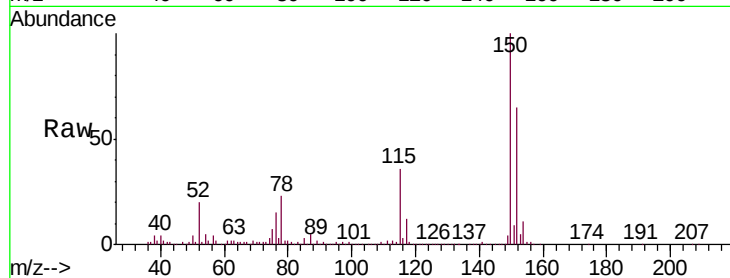
Tot Ion:152 Resp: 430620

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

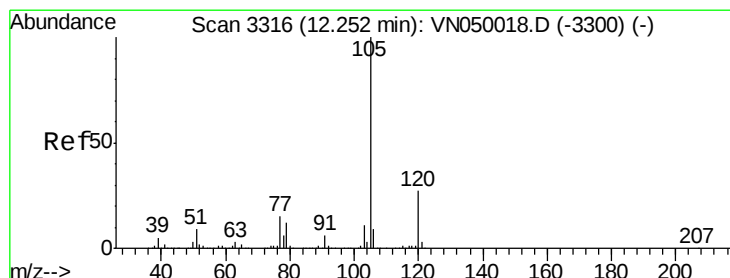
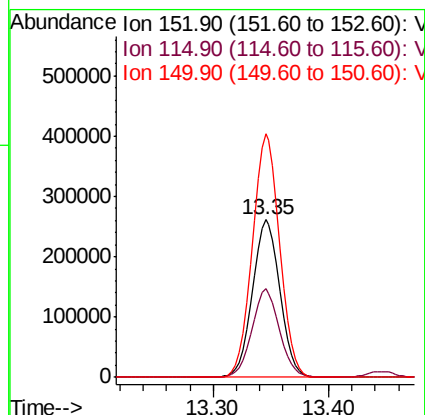
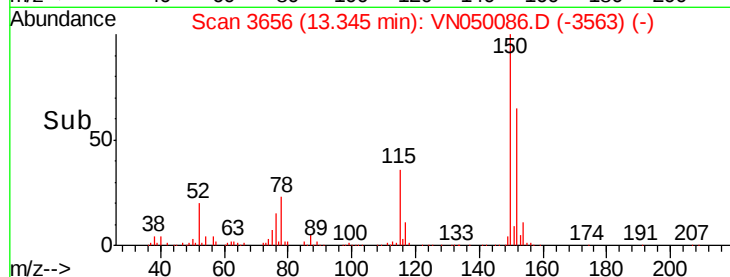
150 154.1 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 21.47 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050086.D

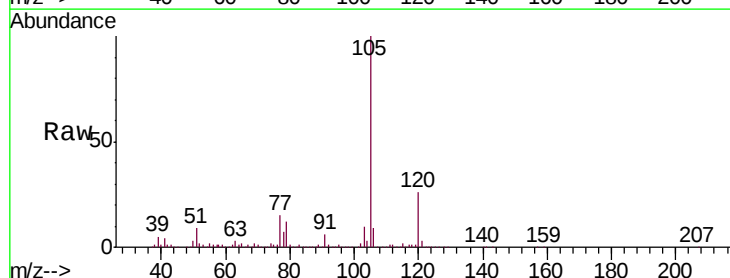
Acq: 26 Jul 2018 16:51

Tgt Ion:105 Resp: 717156

Ion Ratio Lower Upper

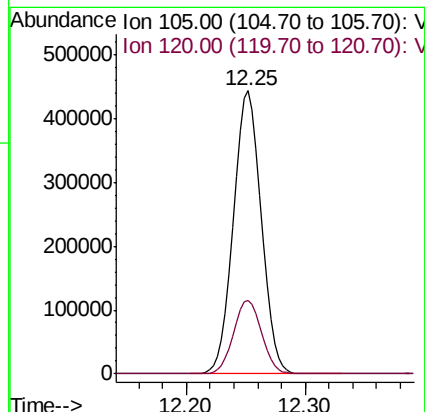
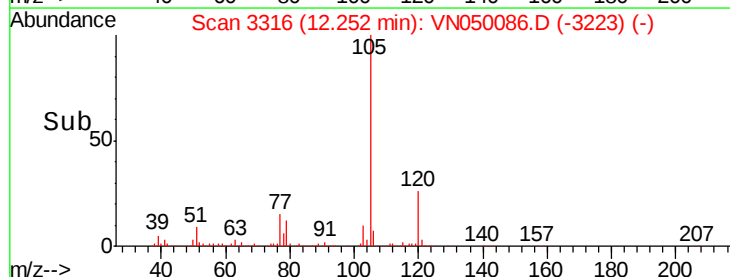
105 100

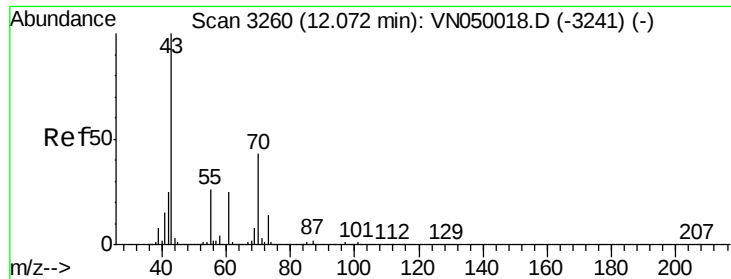
120 26.3 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.80 ug/l

RT: 12.05 min Scan# 3252

Delta R.T. -0.03 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

MW-7

Tot Ion: 43 Resp: 18415

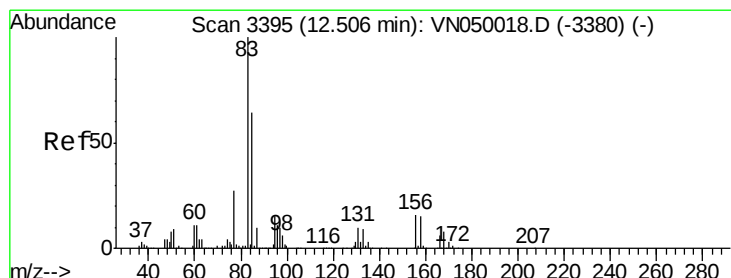
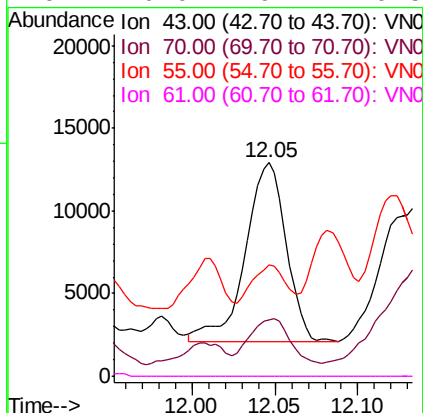
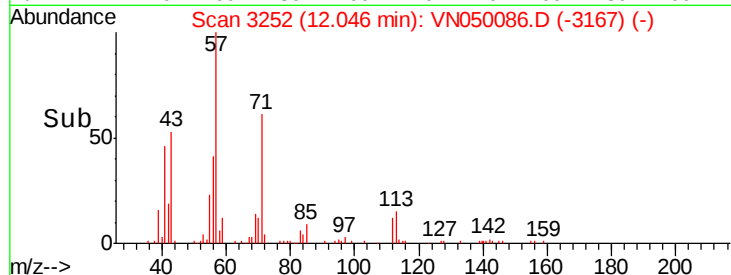
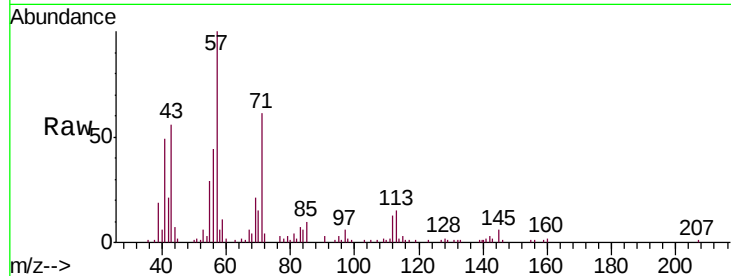
Ion Ratio Lower Upper

43 100

70 23.9 34.4 51.6#

55 27.7 20.8 31.2

61 0.0 19.7 29.5#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.46 min Scan# 3381

Delta R.T. -0.04 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

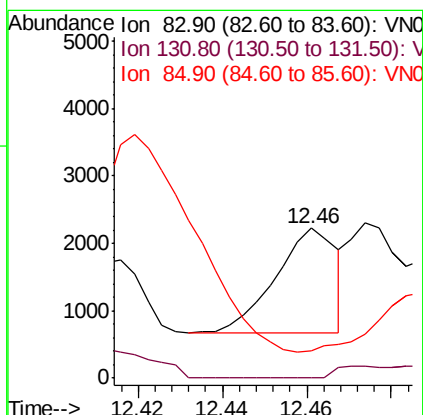
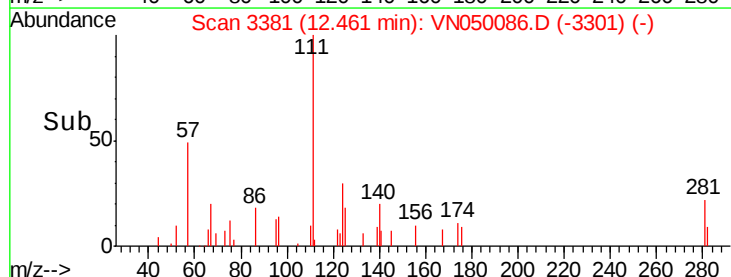
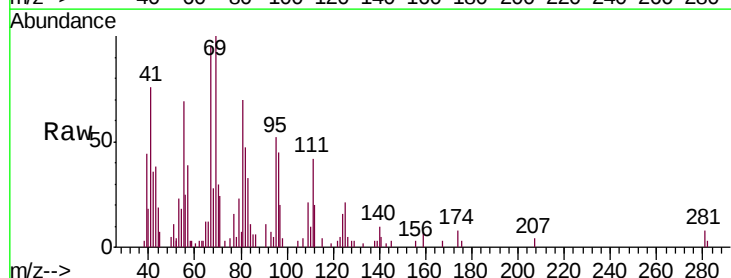
Tgt Ion: 83 Resp: 1541

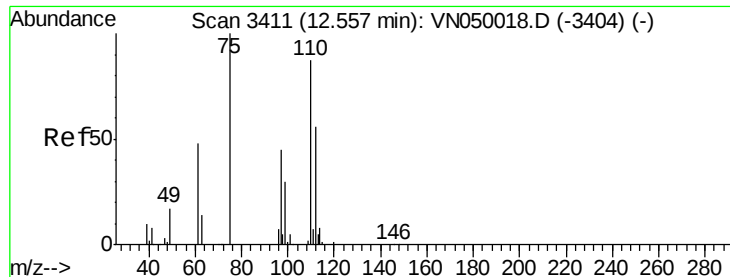
Ion Ratio Lower Upper

83 100

131 10.6 5.1 15.3

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 1.42 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.04 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

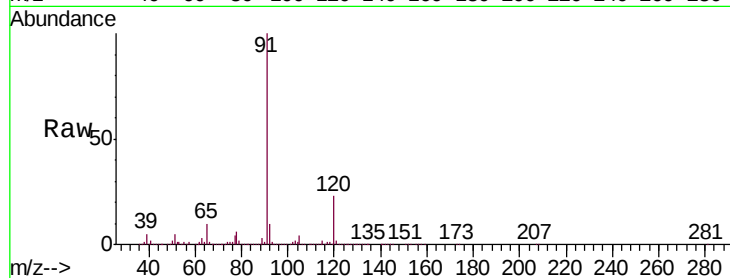
MW-7

Tot Ion: 75 Resp: 11363

Ion Ratio Lower Upper

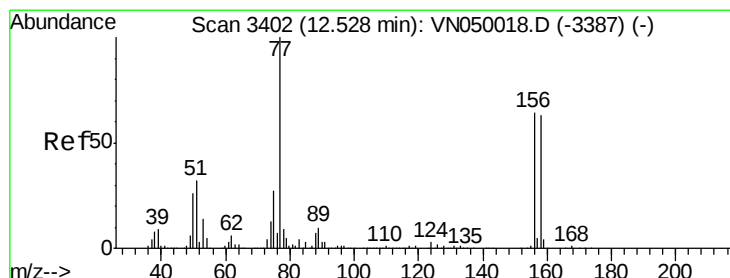
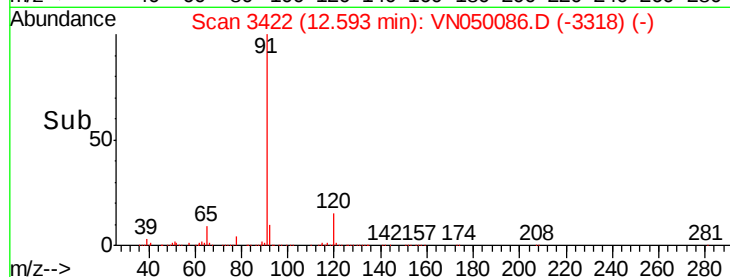
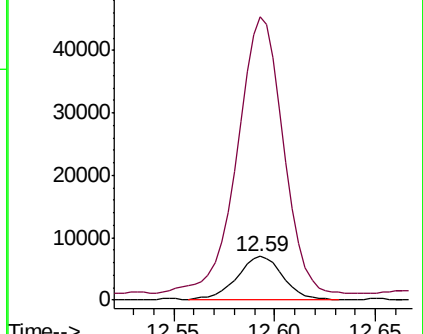
75 100

77 621.8 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: 0.38 ug/l

RT: 12.56 min Scan# 3411

Delta R.T. 0.03 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

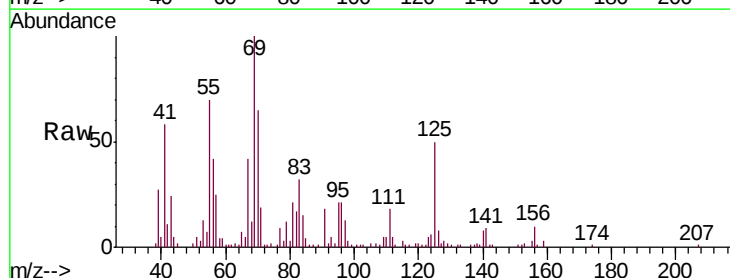
Tgt Ion: 156 Resp: 3502

Ion Ratio Lower Upper

156 100

77 0.0 91.7 275.1#

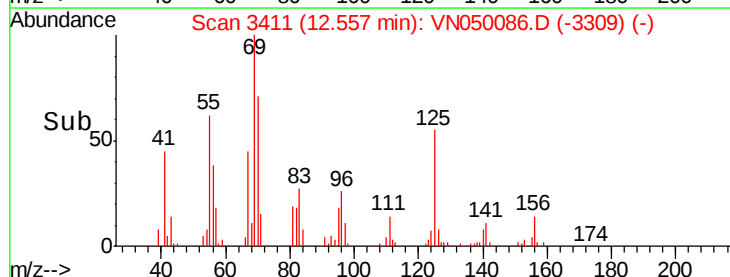
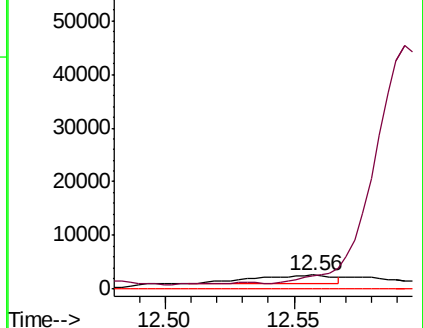
158 0.0 48.9 146.6#

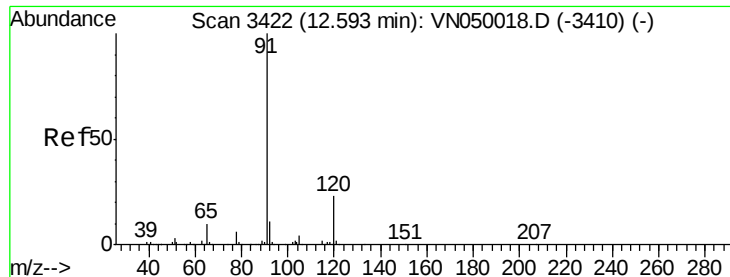


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 48.99 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

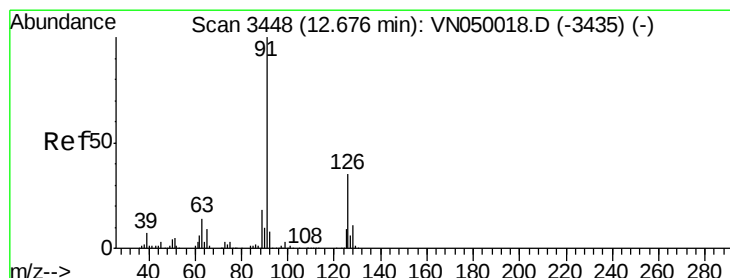
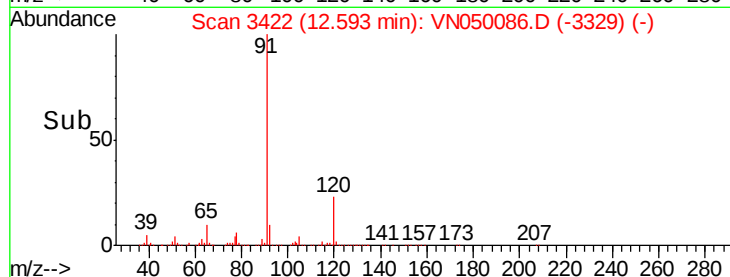
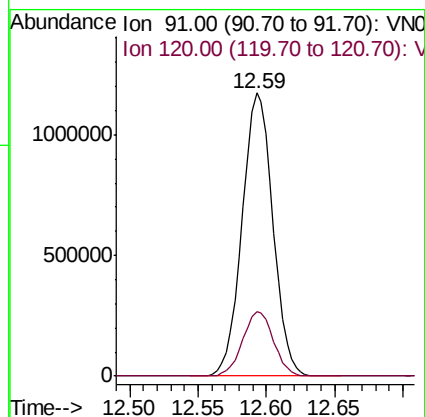
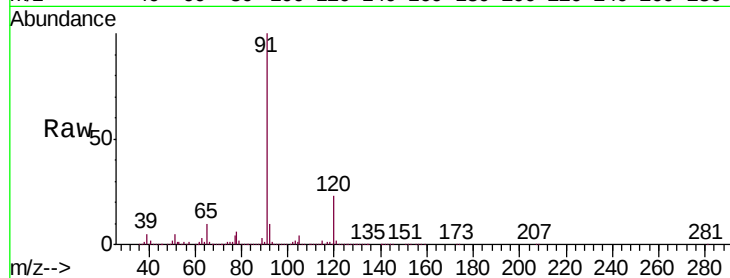
MW-7

Tot Ion: 91 Resp: 1828693

Ion Ratio Lower Upper

91 100

120 22.9 11.6 34.7



#79

2-Chlorotoluene

Concen: 79.04 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.08 min

Lab File: VN050086.D

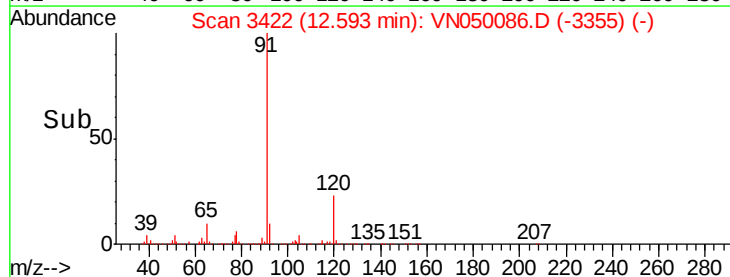
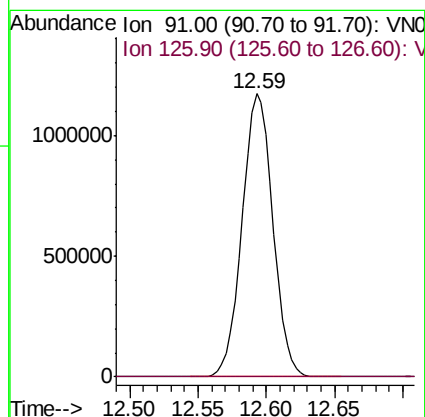
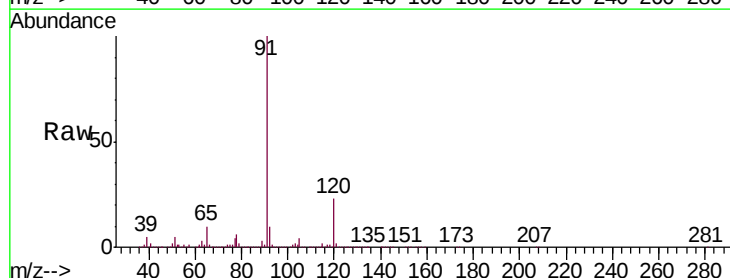
Acq: 26 Jul 2018 16:51

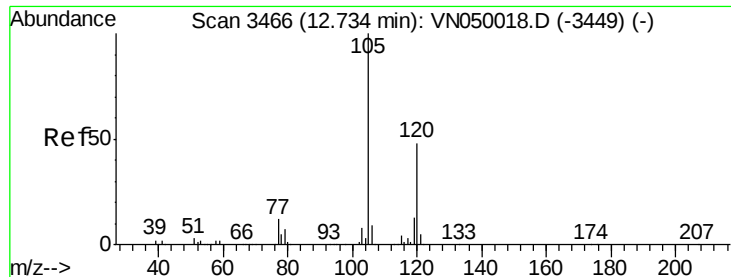
Tgt Ion: 91 Resp: 1828693

Ion Ratio Lower Upper

91 100

126 0.1 17.6 52.8#





#80

1,3,5-Trimethylbenzene

Concen: 7.22 ug/l

RT: 12.89 min Scan# 3515

Delta R.T. 0.16 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

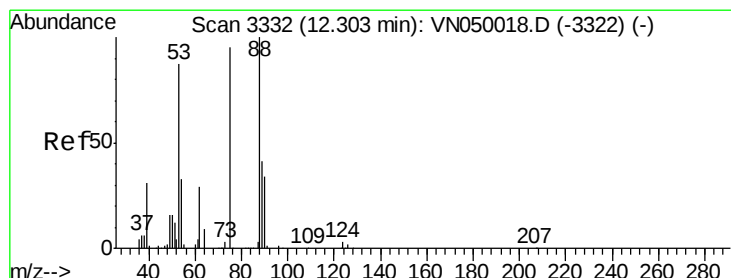
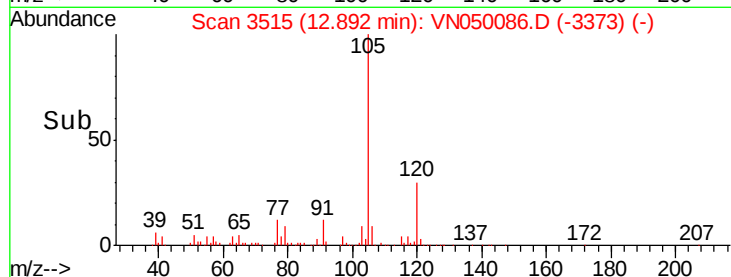
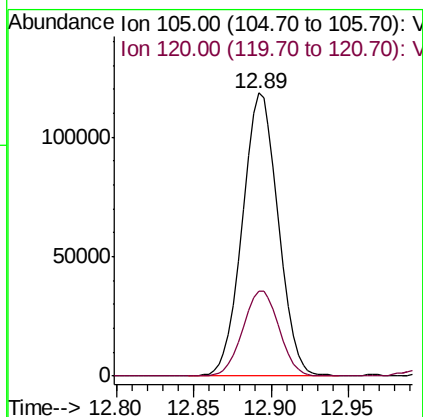
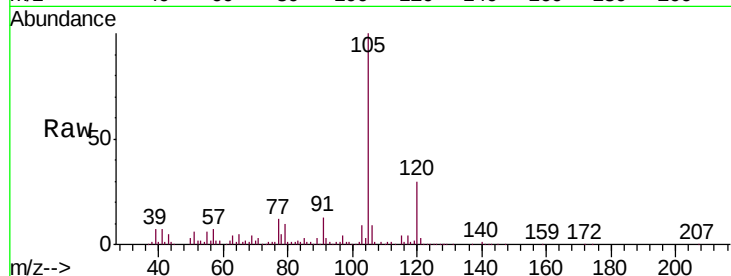
MW-7

Tot Ion:105 Resp: 189624

Ion Ratio Lower Upper

105 100

120 30.7 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 3.22 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.05 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

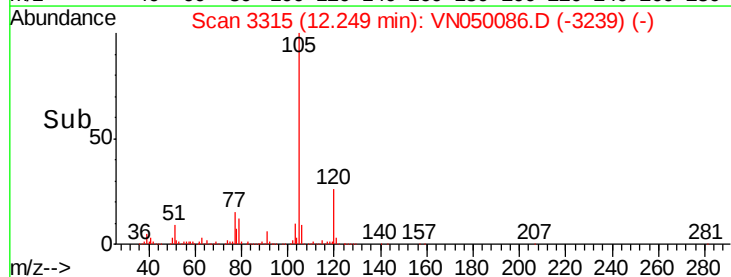
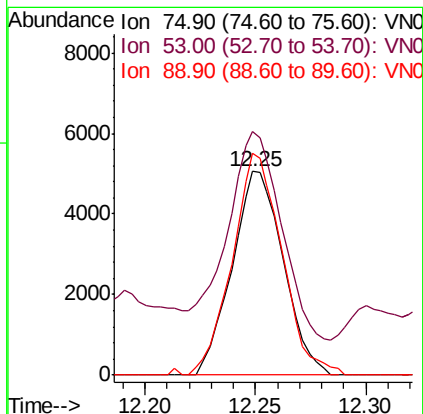
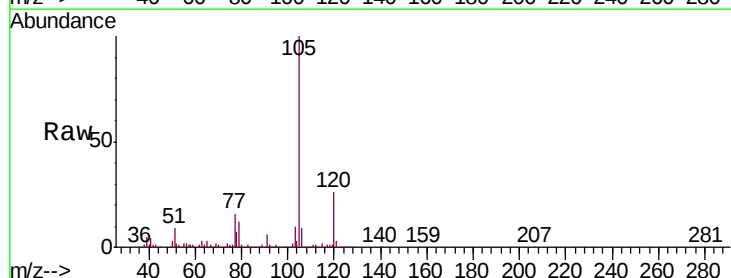
Tgt Ion: 75 Resp: 8125

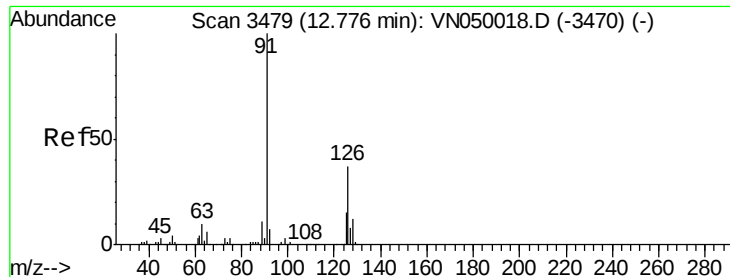
Ion Ratio Lower Upper

75 100

53 107.8 73.5 110.3

89 106.1 36.0 54.0#





#82

4-Chlorotoluene

Concen: 79.81 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.18 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampleId :

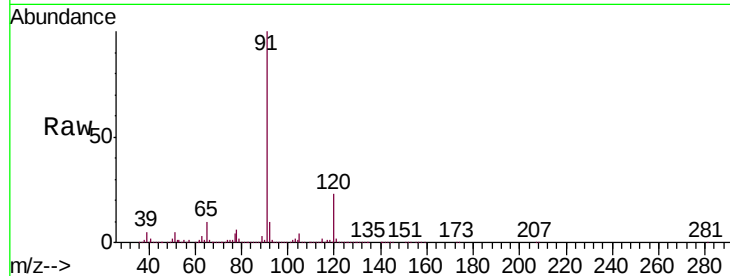
MW-7

Tot Ion: 91 Resp: 1828693

Ion Ratio Lower Upper

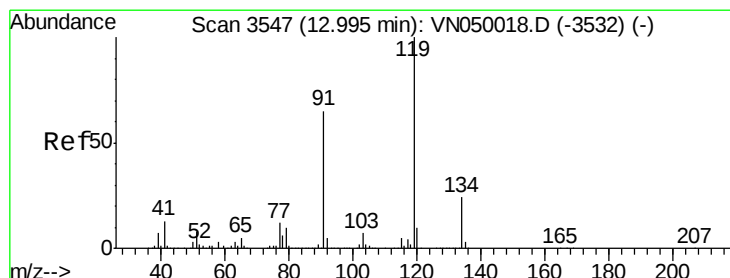
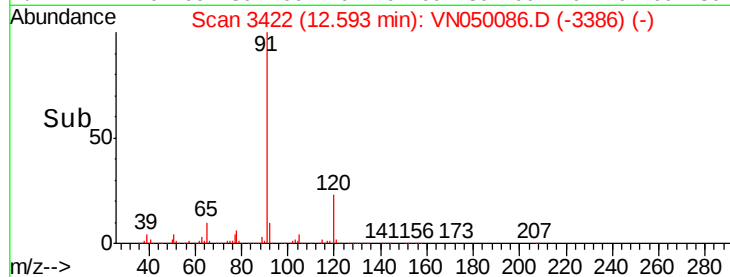
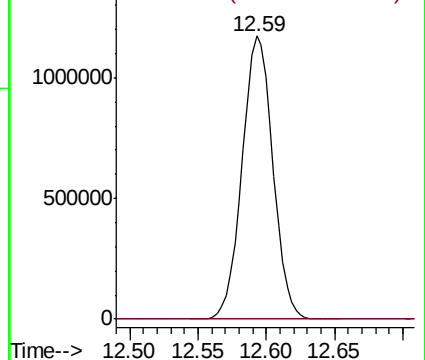
91 100

126 0.1 17.0 51.0#



Abundance Ion 91.00 (90.70 to 91.70): VN050018.D (-3470) (-)

Ion 125.90 (125.60 to 126.60): VN050018.D (-3470) (-)



#83

tert-Butylbenzene

Concen: 1.59 ug/l

RT: 13.00 min Scan# 3548

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

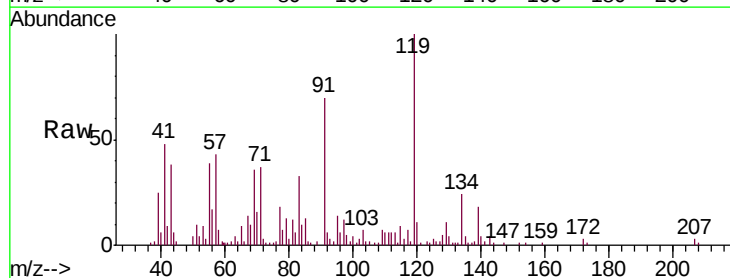
Tgt Ion: 119 Resp: 36342

Ion Ratio Lower Upper

119 100

91 66.4 32.1 96.3

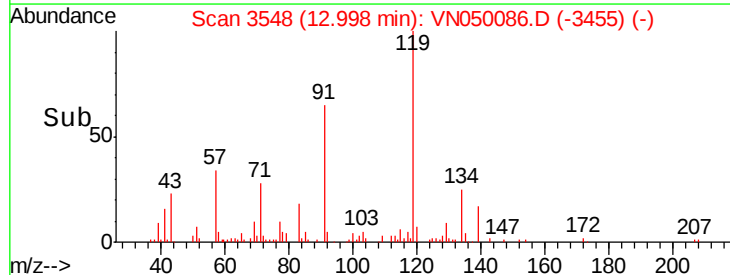
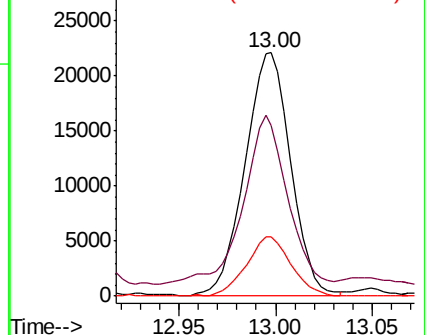
134 23.7 13.2 39.5

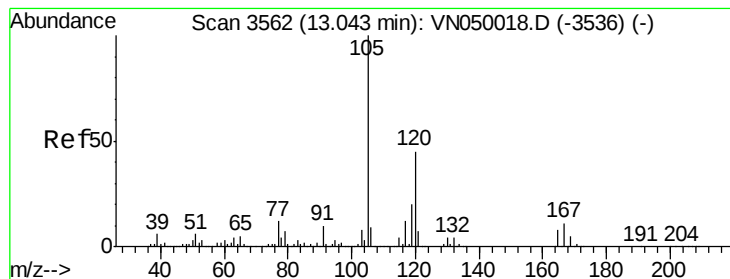


Abundance Ion 119.00 (118.70 to 119.70): VN050018.D (-3532) (-)

Ion 91.00 (90.70 to 91.70): VN050018.D (-3532) (-)

Ion 134.00 (133.70 to 134.70): VN050018.D (-3532) (-)





#84

1,2,4-Trimethylbenzene

Concen: 7.16 ug/l

RT: 12.89 min Scan# 3515

Delta R.T. -0.15 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

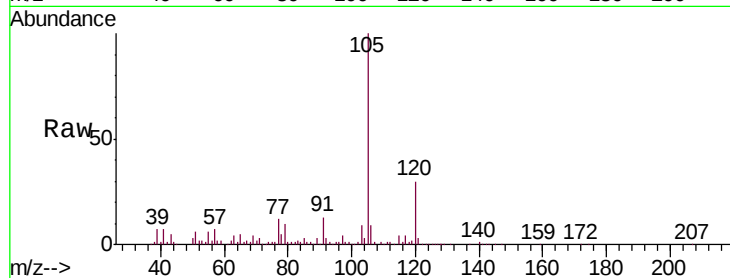
MW-7

Tot Ion:105 Resp: 189624

Ion Ratio Lower Upper

105 100

120 30.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

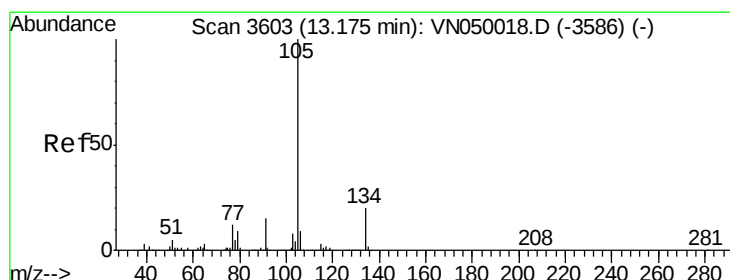
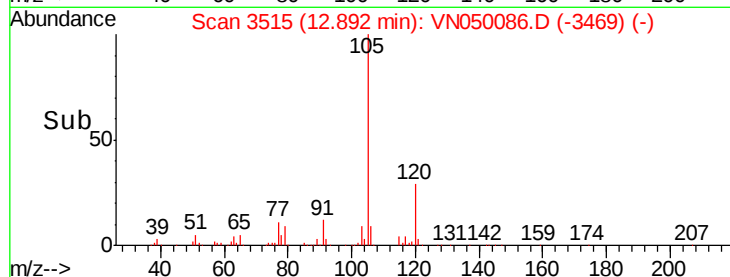
12.89

100000

50000

0

Time--> 12.80 12.85 12.90 12.95



#85

sec-Butylbenzene

Concen: 13.81 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050086.D

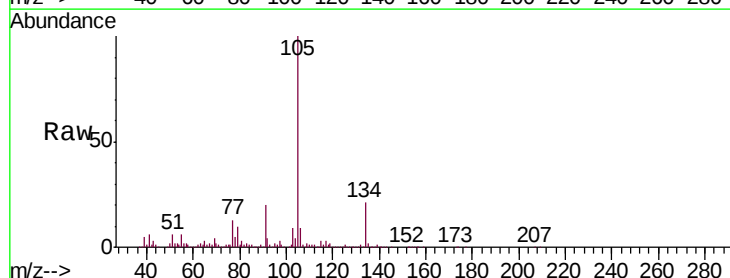
Acq: 26 Jul 2018 16:51

Tgt Ion:105 Resp: 422978

Ion Ratio Lower Upper

105 100

134 27.2 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

300000

250000

200000

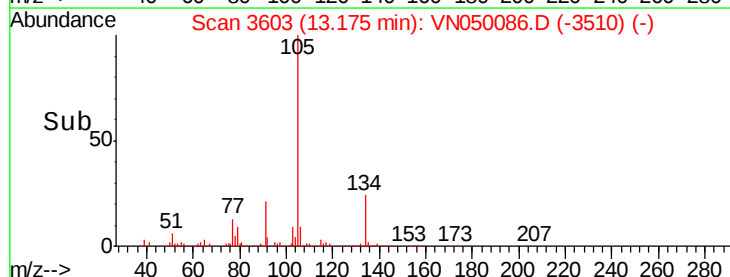
150000

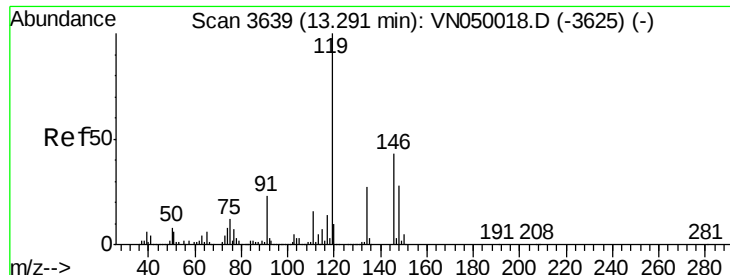
100000

50000

0

Time--> 13.10 13.15 13.20

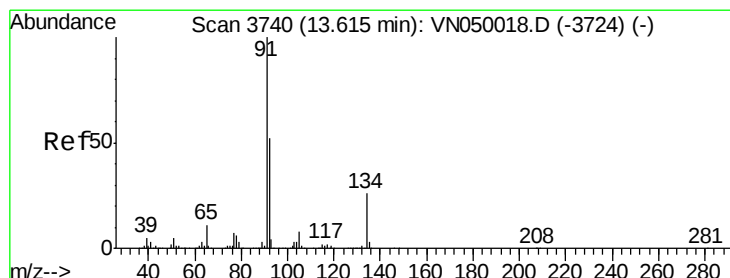
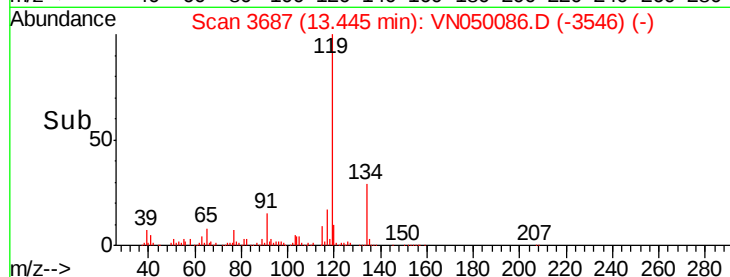
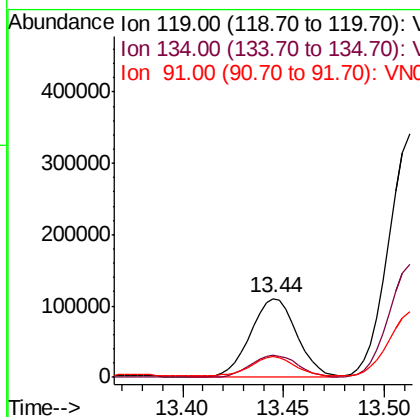
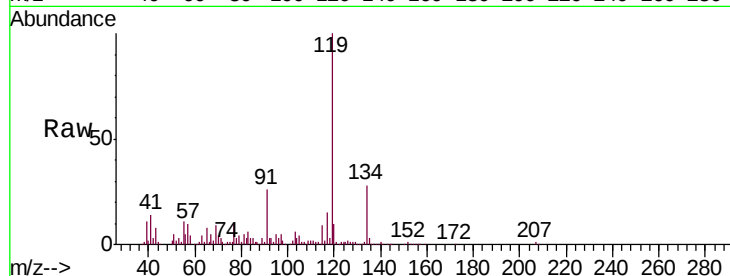




#86
 p-Isopropyltoluene
 Concen: 6.82 ug/l
 RT: 13.44 min Scan# 3687
 Delta R.T. 0.15 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

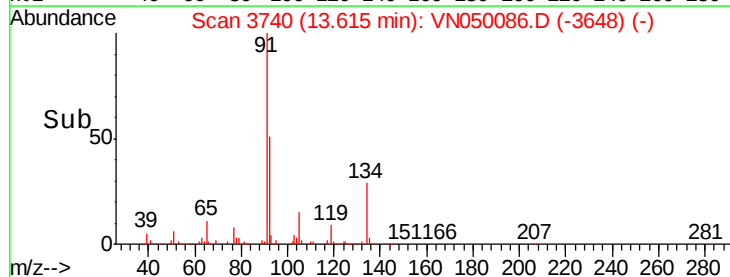
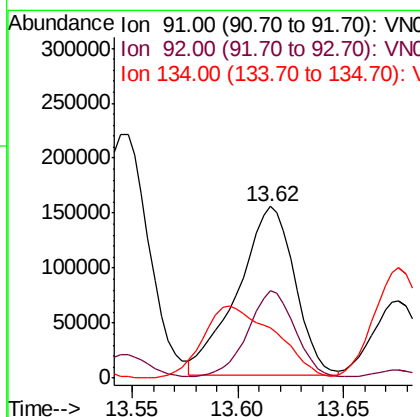
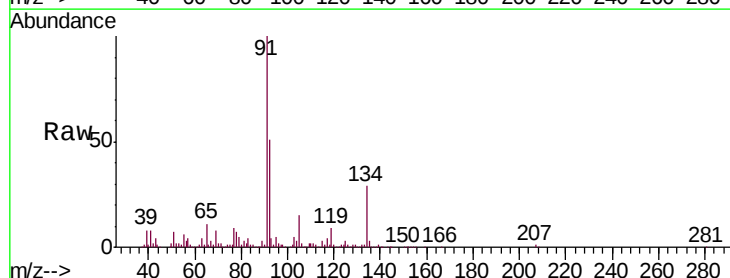
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

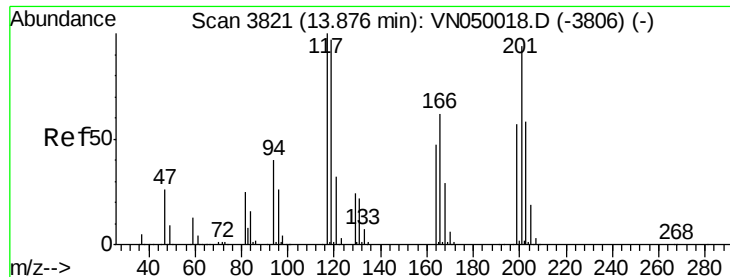
Tot Ion	Ratio	Lower	Upper
119	100		
134	29.0	13.3	39.8
91	24.2	11.4	34.2



#89
 n-Butylbenzene
 Concen: 13.67 ug/l
 RT: 13.62 min Scan# 3740
 Delta R.T. -0.00 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	42.5	25.8	77.4
134	53.9	12.8	38.4#





#90

Hexachloroethane

Concen: 36.88 ug/l

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

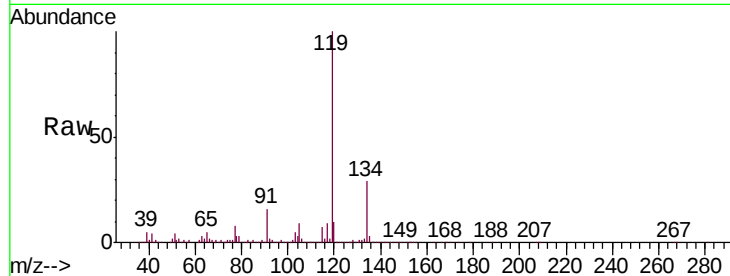
MW-7

Tot Ion:117 Resp: 211348

Ion Ratio Lower Upper

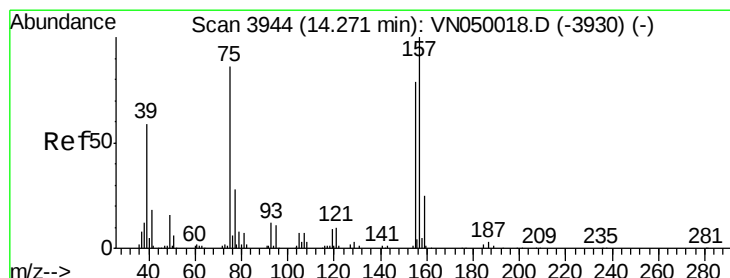
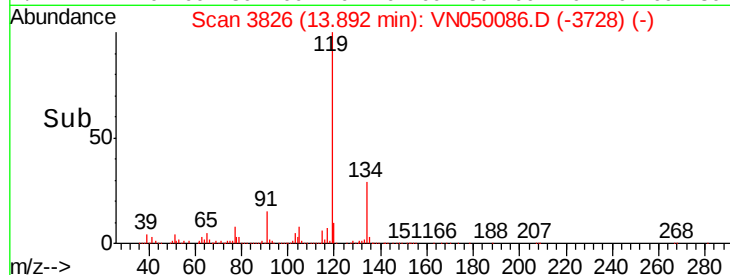
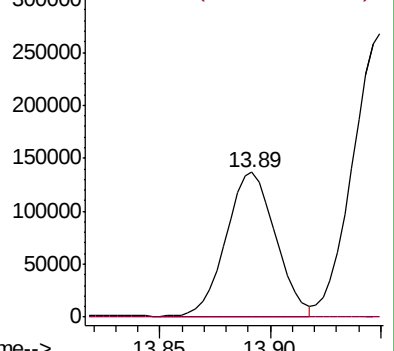
117 100

201 0.0 45.6 136.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.34 ug/l

RT: 14.29 min Scan# 3950

Delta R.T. 0.02 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

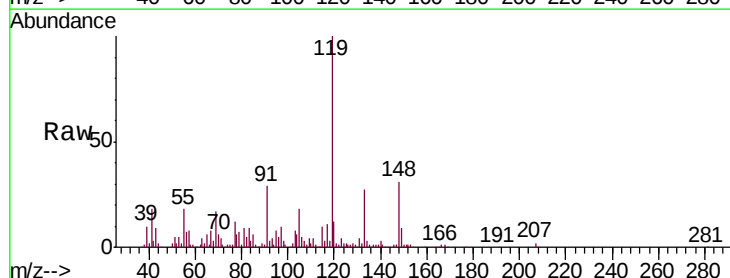
Tgt Ion: 75 Resp: 1700

Ion Ratio Lower Upper

75 100

155 7.0 44.8 134.4#

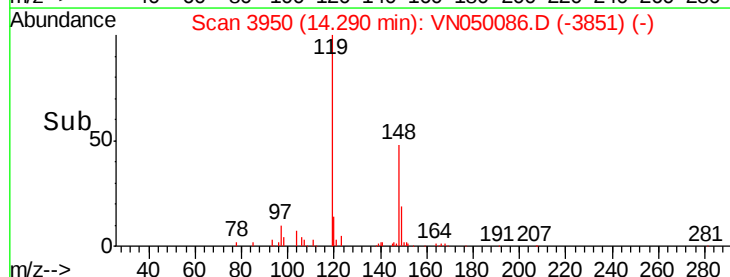
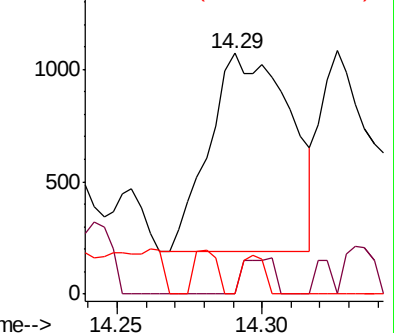
157 5.4 57.2 171.6#

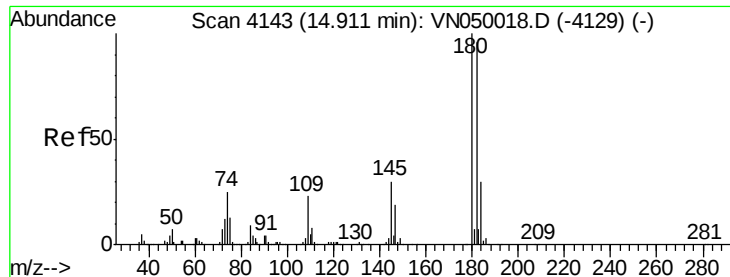


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 3.10 ug/l

RT: 14.92 min Scan# 4145

Delta R.T. 0.01 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

Instrument :

MSVOA_N

ClientSampled :

MW-7

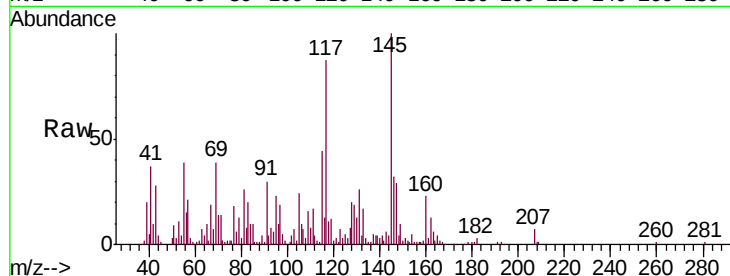
Tot Ion:180 Resp: 141

Ion Ratio Lower Upper

180 100

182 1773.8 46.7 140.1#

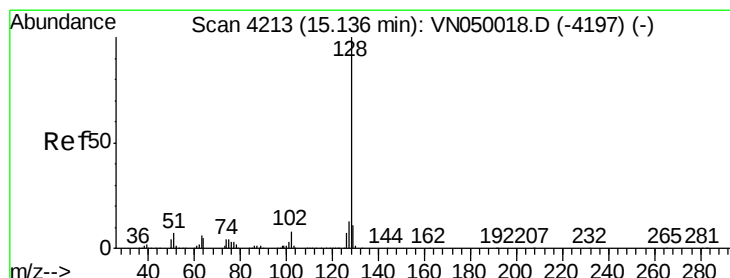
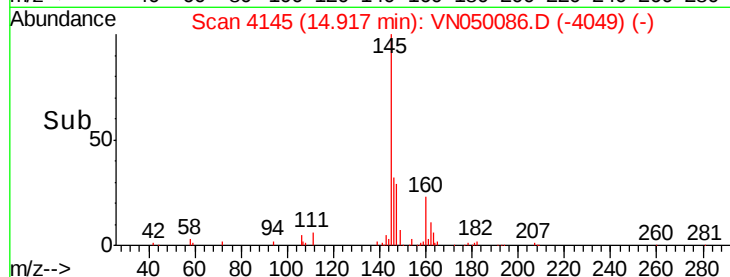
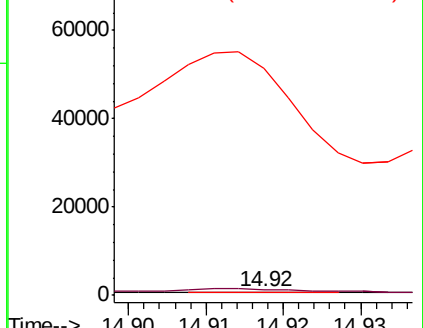
145 93648.2 13.8 41.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.57 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050086.D

Acq: 26 Jul 2018 16:51

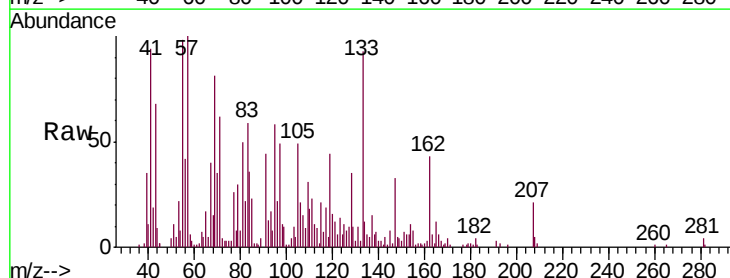
Tgt Ion:128 Resp: 3321

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

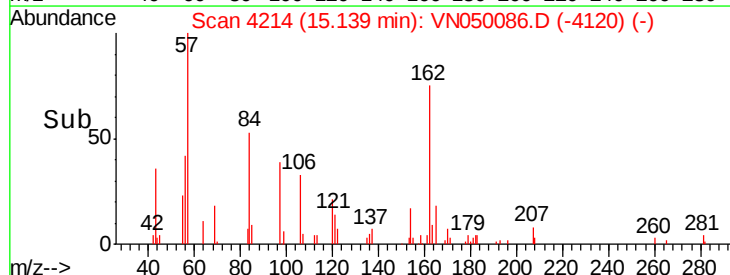
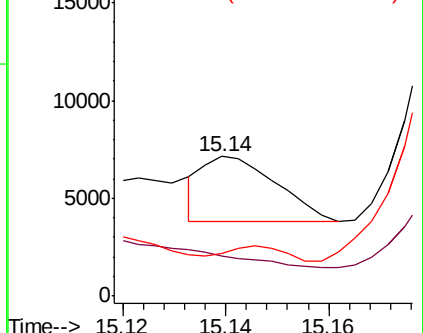
129 0.0 8.8 13.2#

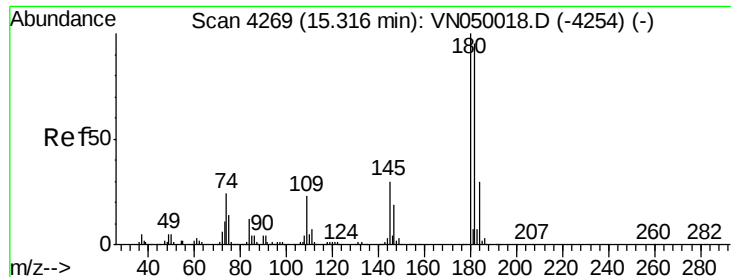


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.46 ug/l
 RT: 15.29 min Scan# 4261
 Delta R.T. -0.03 min
 Lab File: VN050086.D
 Acq: 26 Jul 2018 16:51

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7

Tot Ion:180 Resp: 2139
 Ion Ratio Lower Upper
 180 100
 182 18.6 48.1 144.4#
 145 2666.1 15.3 45.9#

