

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080418\
 Data File : VN050368.D
 Acq On : 4 Aug 2018 15:46
 Operator : MD\SY
 Sample : J4356-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-29

Quant Time: Aug 06 01:38:36 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	643287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1024379	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	896976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	381630	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	449042	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
35) Dibromofluoromethane	7.59	113	400313	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
50) Toluene-d8	10.09	98	1429256	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	
62) 4-Bromofluorobenzene	12.40	95	433982	42.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.72%	

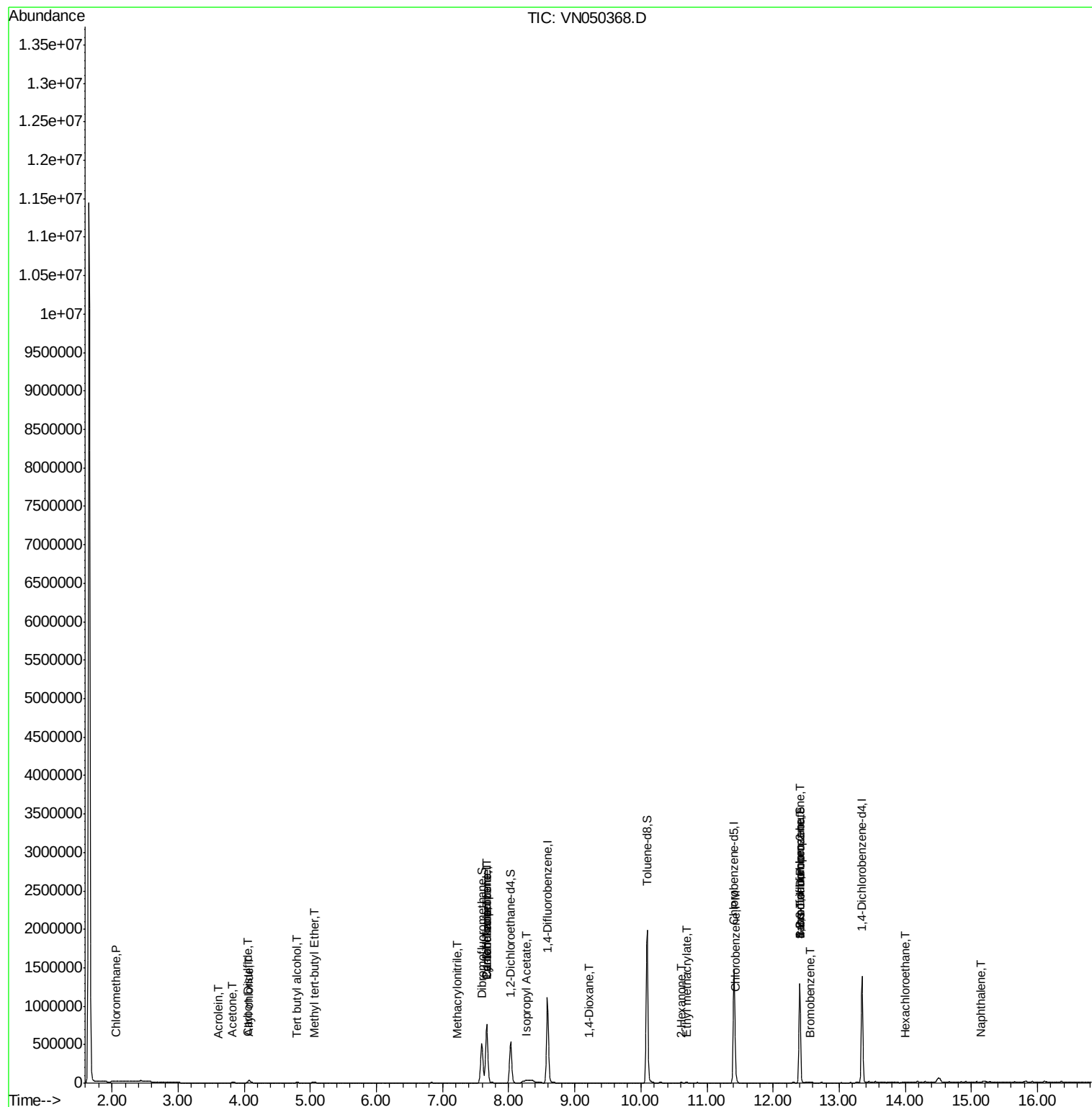
Target Compounds				Qvalue		
3) Chloromethane	2.06	50	3781	0.38	ug/l	99
5) Bromomethane	2.57	94	3277	Below	Cal	99
11) Tert butyl alcohol	4.79	59	6490	9.83	ug/l	100
13) Acrolein	3.62	56	204	0.38	ug/l #	78
14) Allyl chloride	4.08	41	6468	0.56	ug/l #	73
16) Acetone	3.82	43	29294	9.68	ug/l	97
17) Carbon Disulfide	4.05	76	8075	0.36	ug/l #	95
18) Methyl Acetate	4.34	43	6492	Below	Cal #	72
19) Methyl tert-butyl Ether	5.06	73	20018	1.01	ug/l	97
20) Methylene Chloride	4.55	84	2267	Below	Cal	91
31) Cyclohexane	7.67	56	12290	0.93	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44795	3.88	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58343	4.76	ug/l #	16
41) Methacrylonitrile	7.22	41	180	2.79	ug/l #	10
43) Isopropyl Acetate	8.26	43	32182	1.01	ug/l #	61
49) 1,4-Dioxane	9.21	88	742	7.87	ug/l #	35
56) Ethyl methacrylate	10.69	69	222	2.05	ug/l #	1
59) 2-Hexanone	10.61	43	3726	5.80	ug/l	65
65) Chlorobenzene	11.44	112	43456	1.92	ug/l	98
71) Bromoform	12.40	173	3873	0.61	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	323	Below	Cal	66
76) 1,2,3-Trichloropropane	12.40	75	210134	29.63	ug/l #	100
77) Bromobenzene	12.55	156	4570	0.56	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	210134	93.98	ug/l #	13
90) Hexachloroethane	13.99	117	2136	0.42	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.28	75	220	Below	Cal #	1
95) Naphthalene	15.14	128	1490	4.49	ug/l #	69

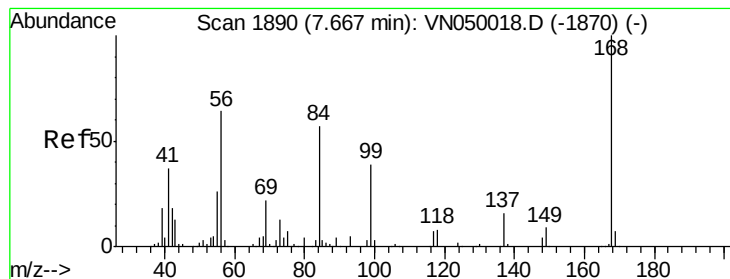
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
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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: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

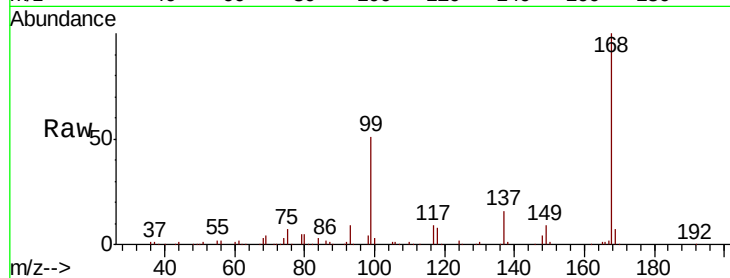
MW-29

Tot Ion:168 Resp: 643287

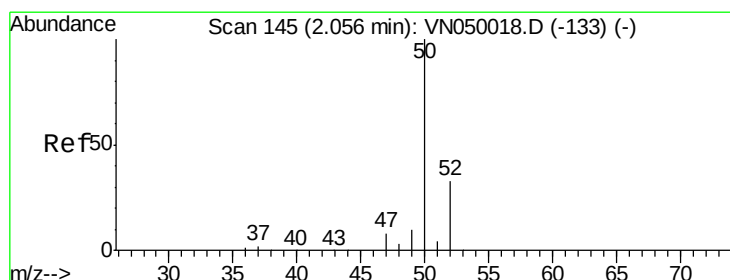
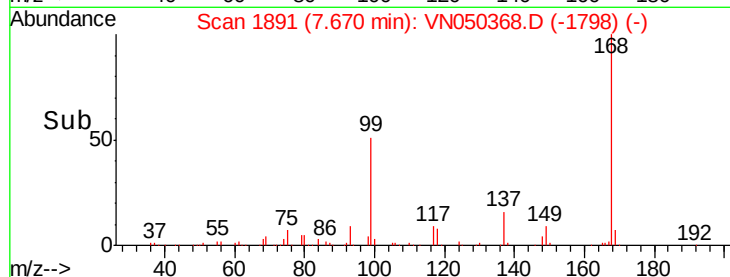
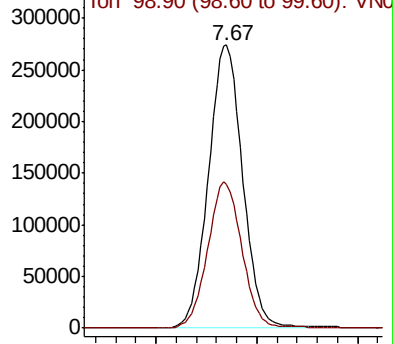
Ion Ratio Lower Upper

168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)



#3

Chloromethane

Concen: 0.38 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050368.D

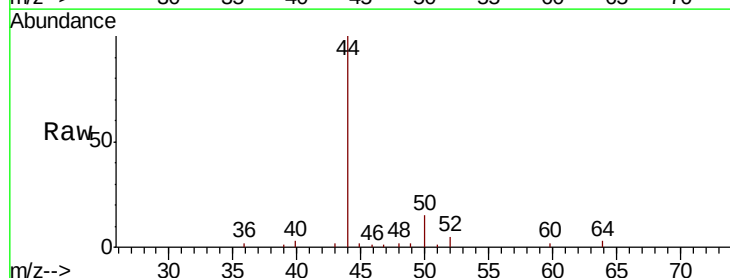
Acq: 4 Aug 2018 15:46

Tgt Ion: 50 Resp: 3781

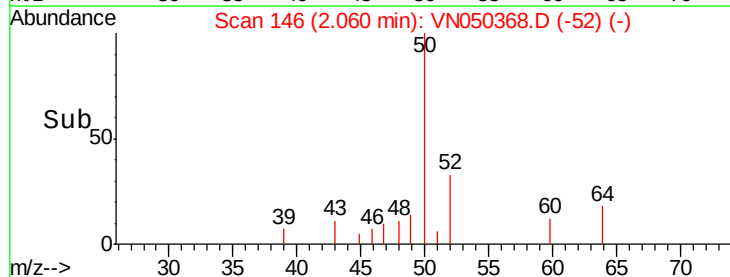
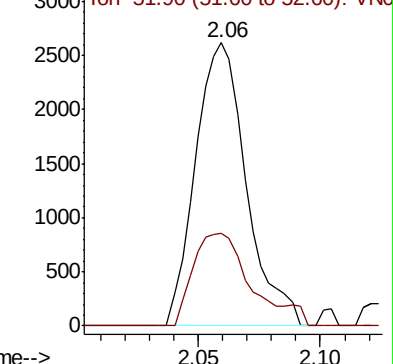
Ion Ratio Lower Upper

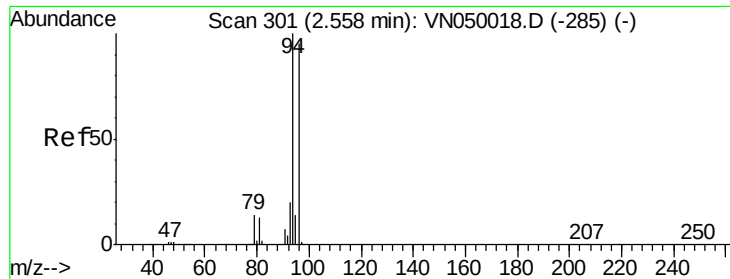
50 100

52 32.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050018.D (-133) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampleId :

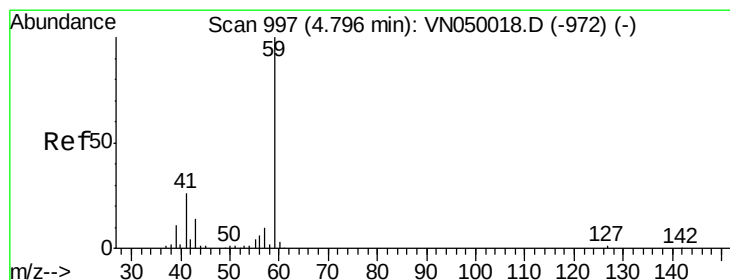
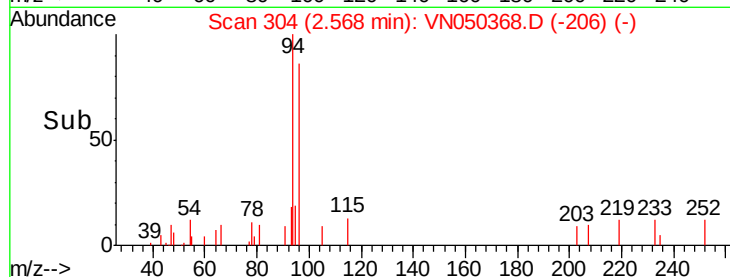
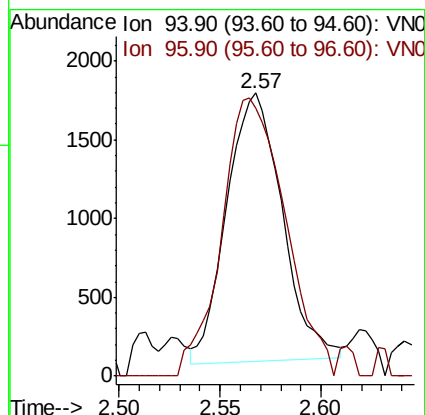
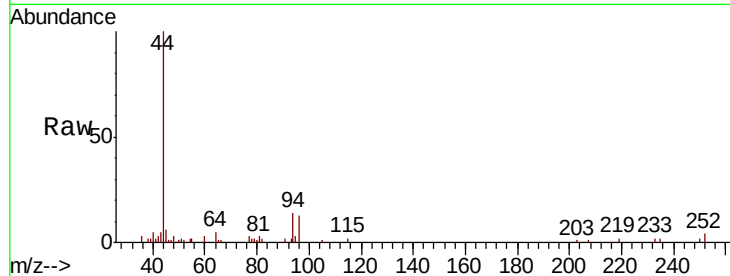
MW-29

Tot Ion: 94 Resp: 3277

Ion Ratio Lower Upper

94 100

96 94.0 74.6 112.0



#11

Tert butyl alcohol

Concen: 9.83 ug/l

RT: 4.79 min Scan# 995

Delta R.T. -0.02 min

Lab File: VN050368.D

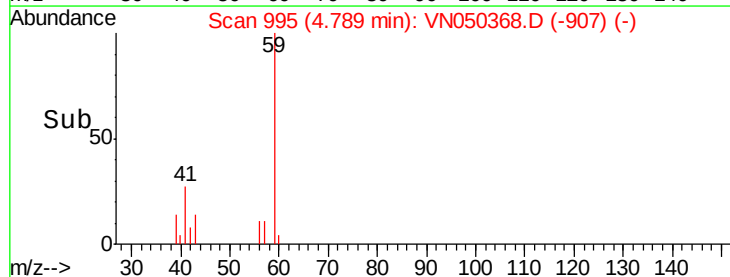
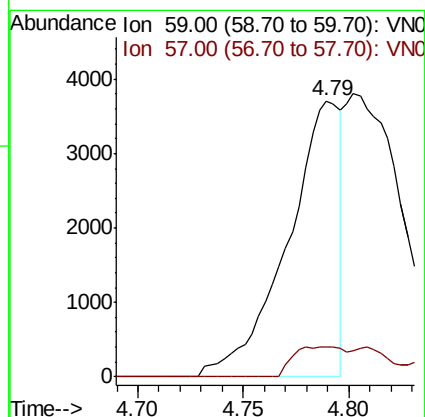
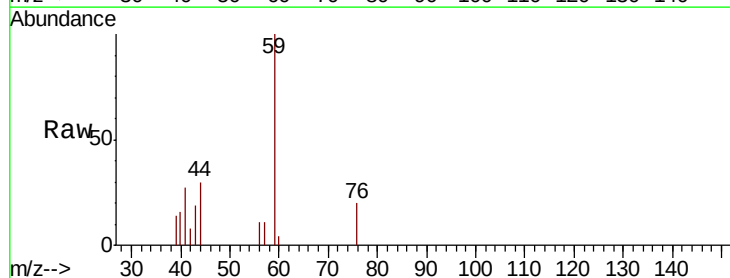
Acq: 4 Aug 2018 15:46

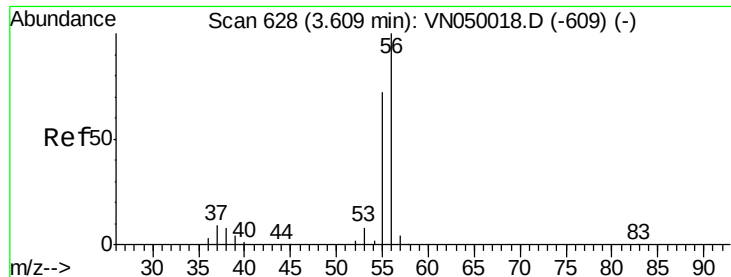
Tgt Ion: 59 Resp: 6490

Ion Ratio Lower Upper

59 100

57 10.5 8.5 12.7





#13

Acrolein

Concen: 0.38 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

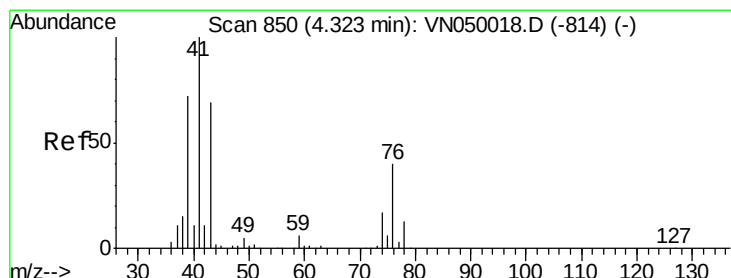
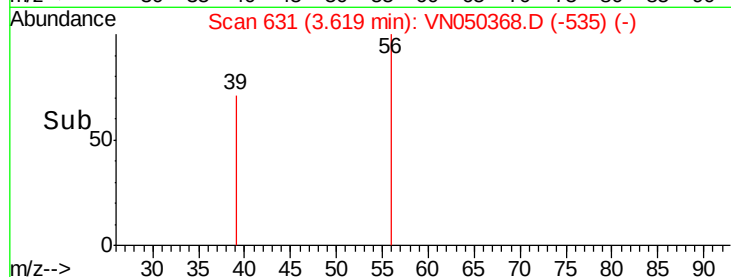
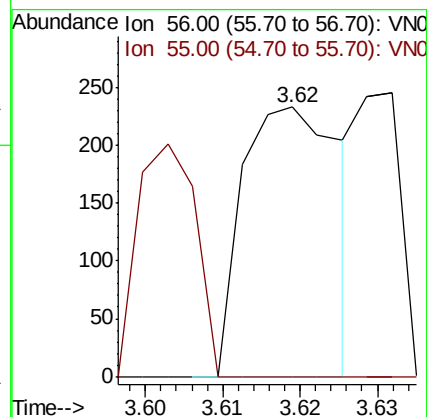
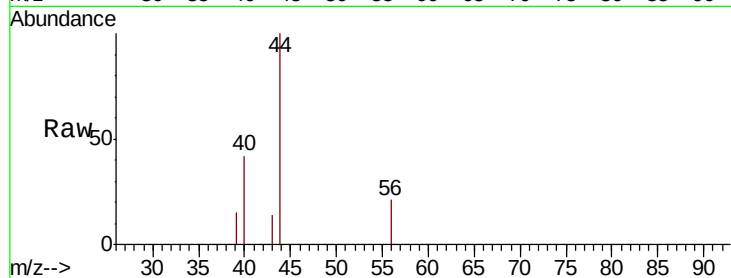
MW-29

Tot Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 51.5 55.8 83.6#



#14

Allyl chloride

Concen: 0.56 ug/l

RT: 4.08 min Scan# 773

Delta R.T. -0.25 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

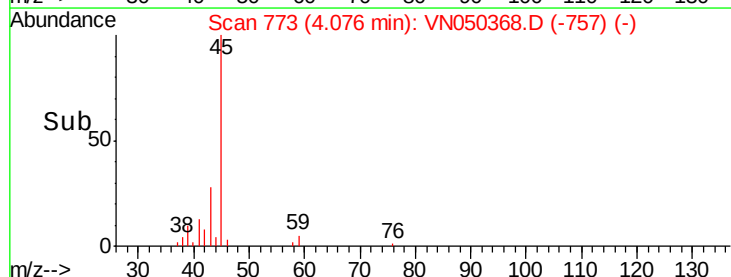
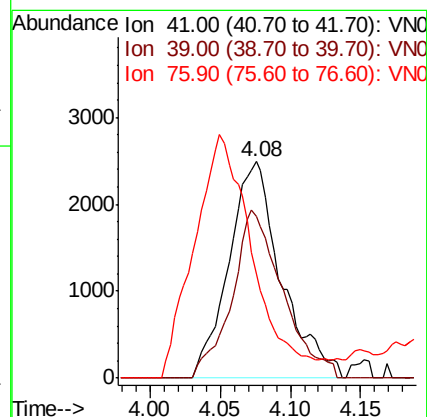
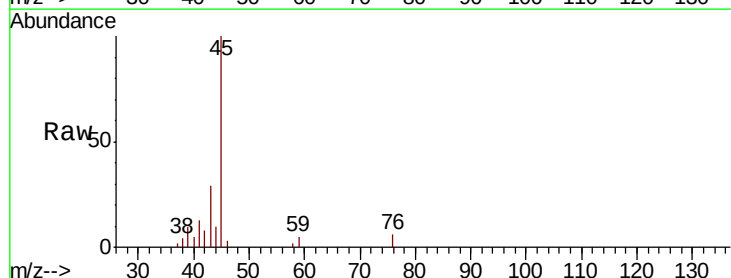
Tgt Ion: 41 Resp: 6468

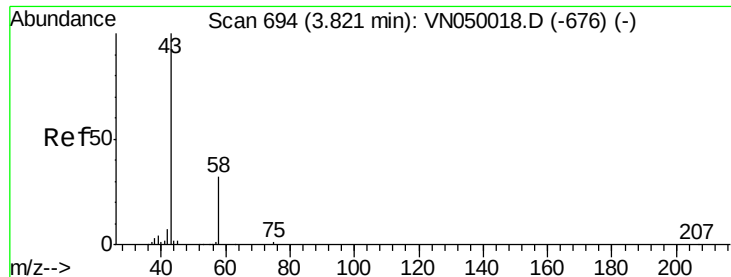
Ion Ratio Lower Upper

41 100

39 74.9 54.2 81.4

76 0.0 29.0 43.6#





#16

Acetone

Concen: 9.68 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

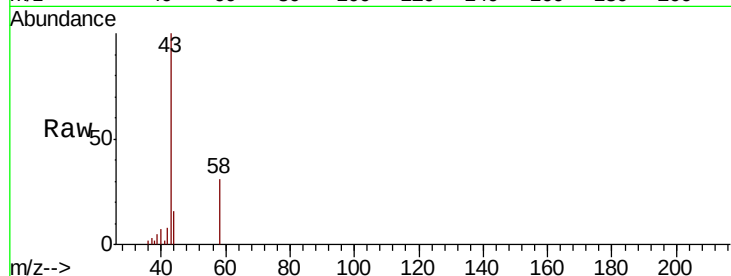
MW-29

Tot Ion: 43 Resp: 29294

Ion Ratio Lower Upper

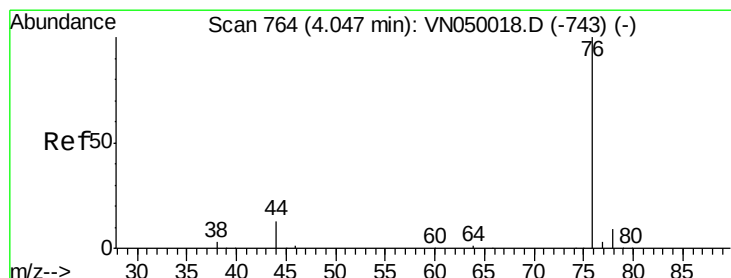
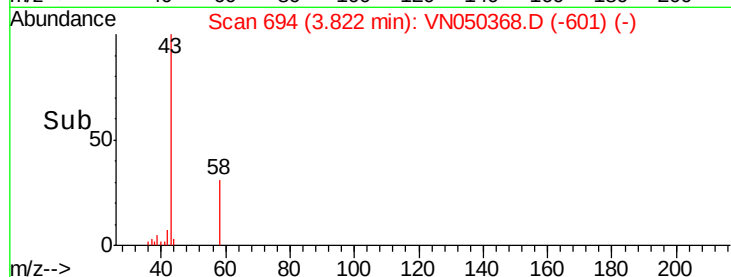
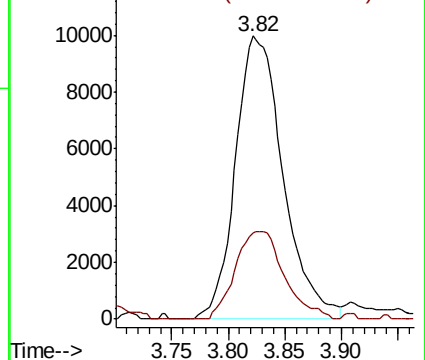
43 100

58 30.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.36 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050368.D

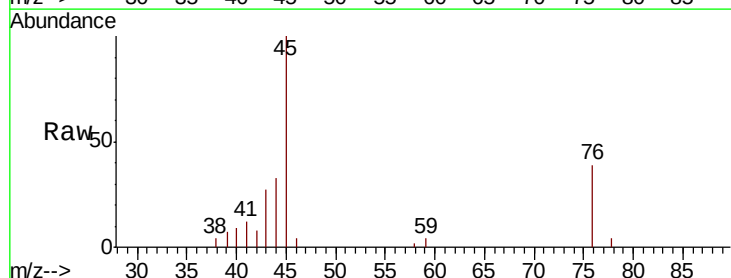
Acq: 4 Aug 2018 15:46

Tgt Ion: 76 Resp: 8075

Ion Ratio Lower Upper

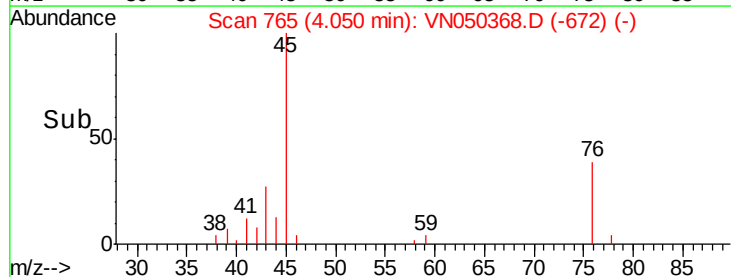
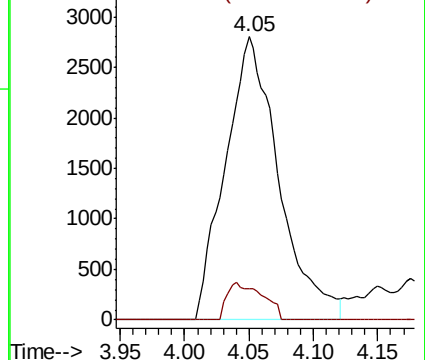
76 100

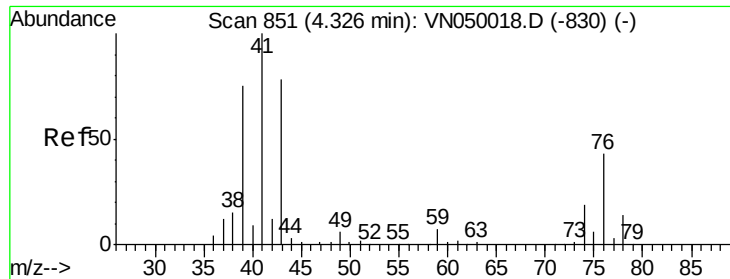
78 11.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

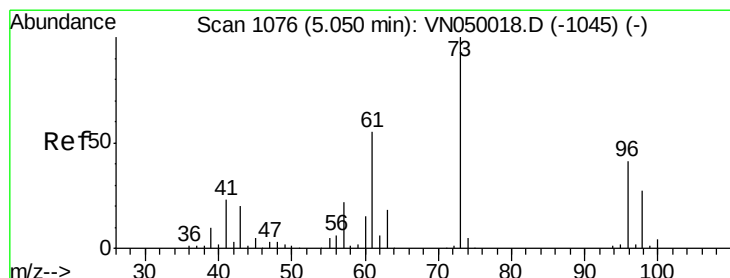
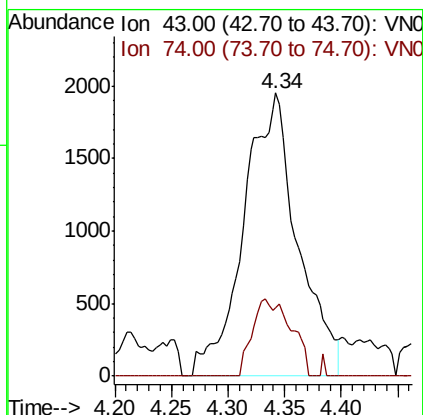
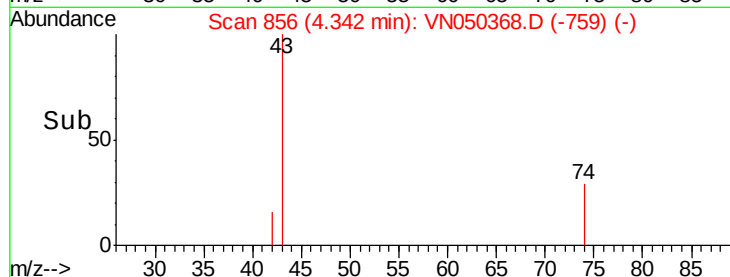
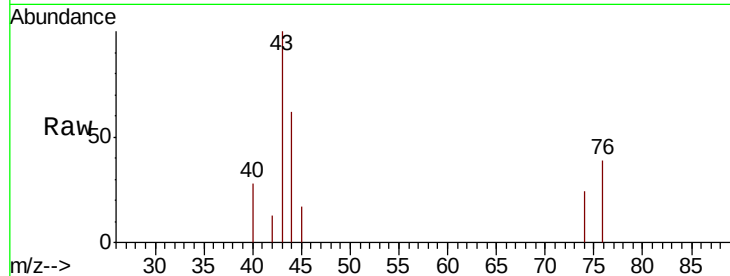




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 856
Delta R.T. 0.01 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

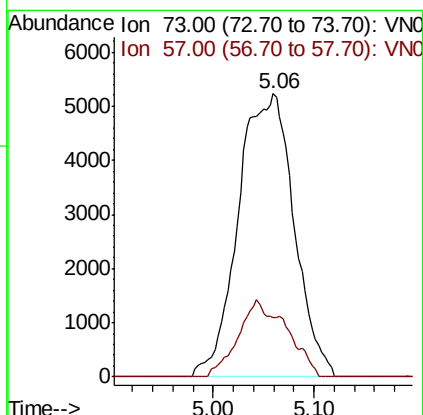
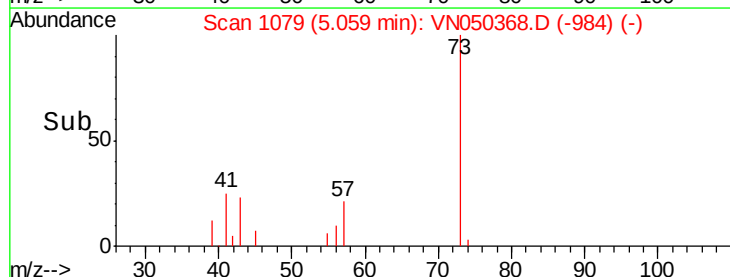
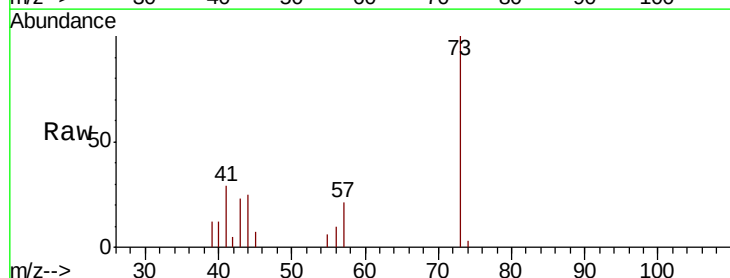
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MSVOA_N
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MW-29

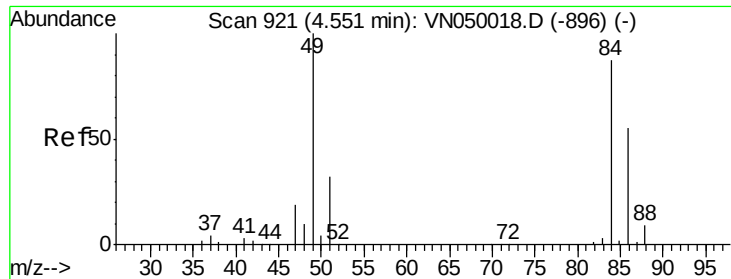
Tot Ion: 43 Resp: 6492
Ion Ratio Lower Upper
43 100
74 10.2 19.2 28.8#



#19
Methyl tert-butyl Ether
Concen: 1.01 ug/l
RT: 5.06 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Tgt Ion: 73 Resp: 20018
Ion Ratio Lower Upper
73 100
57 21.0 18.0 27.0

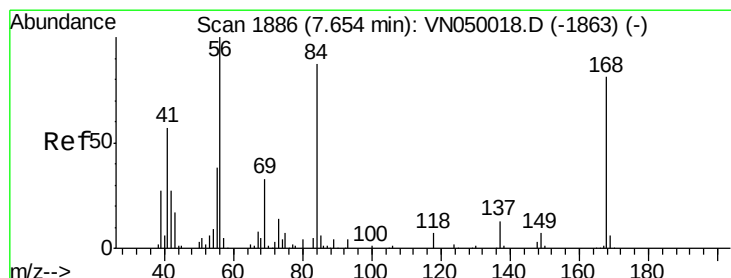
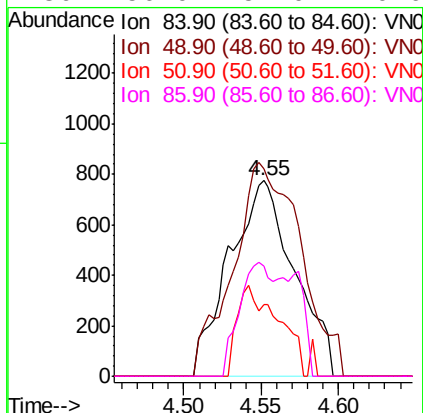
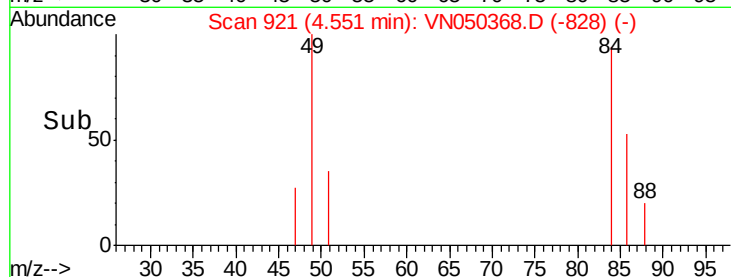
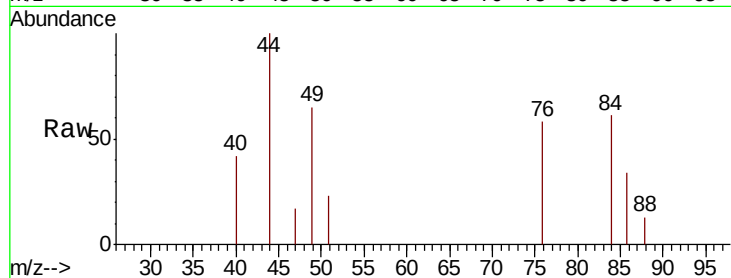




#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

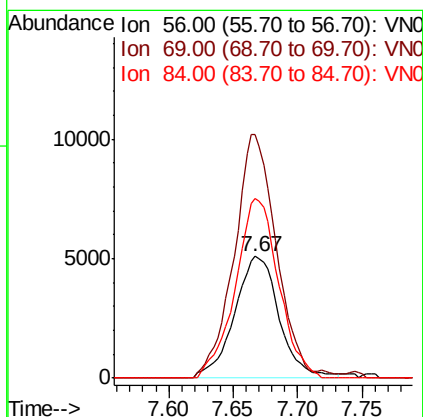
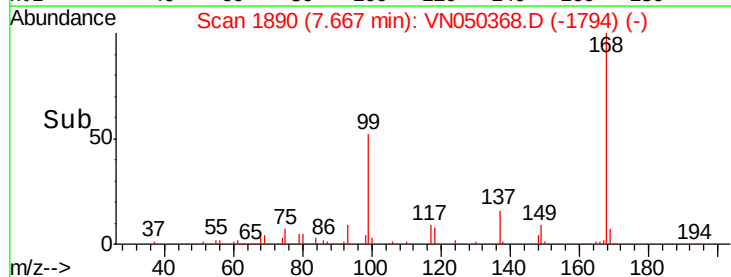
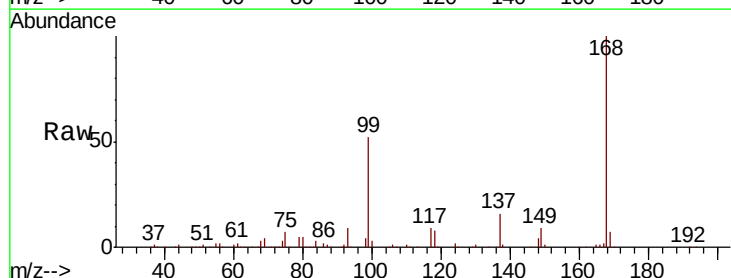
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MSVOA_N
ClientSampled :
MW-29

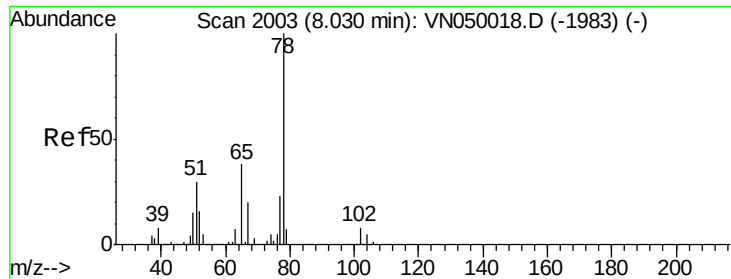
Tot Ion: 84 Resp: 2267
Ion Ratio Lower Upper
84 100
49 106.3 94.8 142.2
51 36.9 28.3 42.5
86 56.0 51.0 76.6



#31
Cyclohexane
Concen: 0.93 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Tgt Ion: 56 Resp: 12290
Ion Ratio Lower Upper
56 100
69 200.0 26.2 39.4#
84 147.6 67.4 101.0#

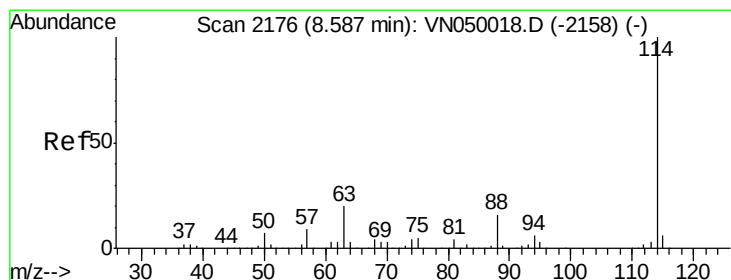
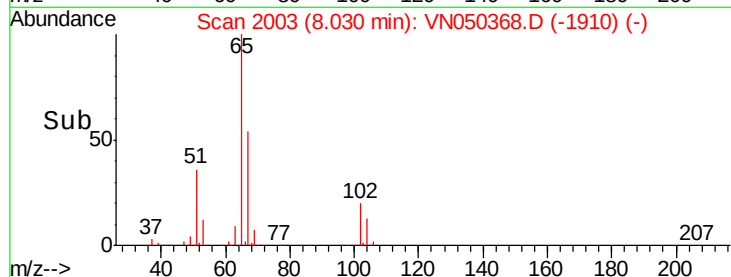
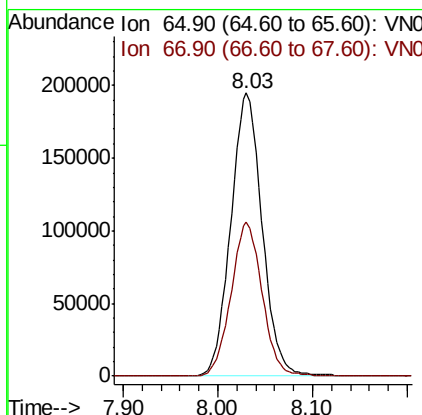
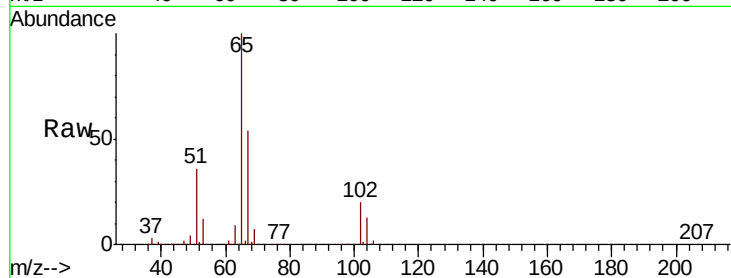




#33
 1,2-Dichloroethane-d4
 Concen: 50.03 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050368.D
 Acq: 4 Aug 2018 15:46

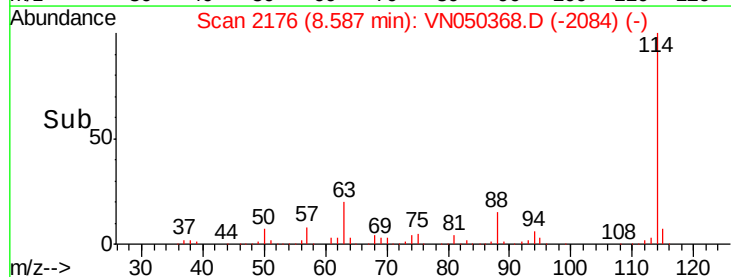
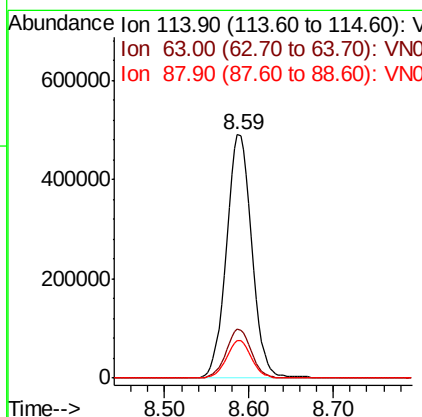
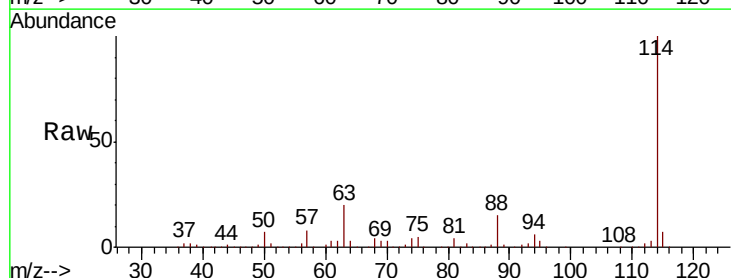
Instrument :
 MSVOA_N
 ClientSampled :
 MW-29

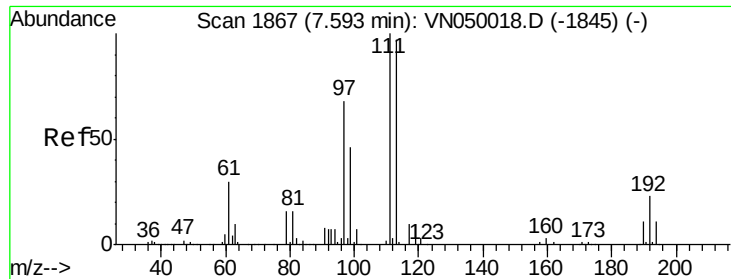
Tot Ion: 65 Resp: 449042
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050368.D
 Acq: 4 Aug 2018 15:46

Tgt Ion: 114 Resp: 1024379
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.3 0.0 31.2

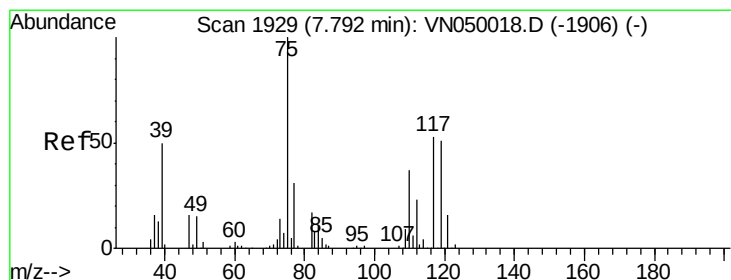
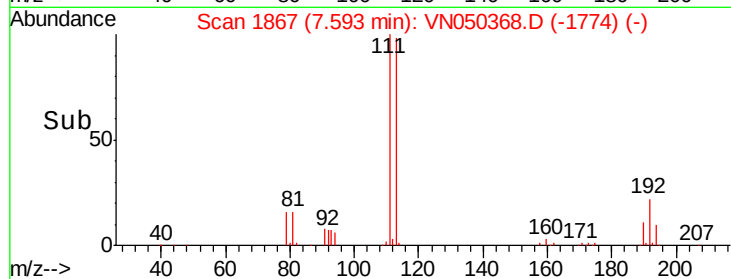
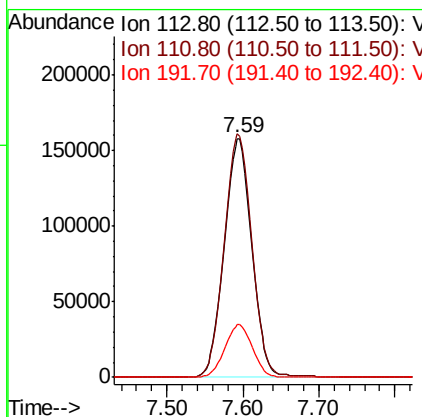
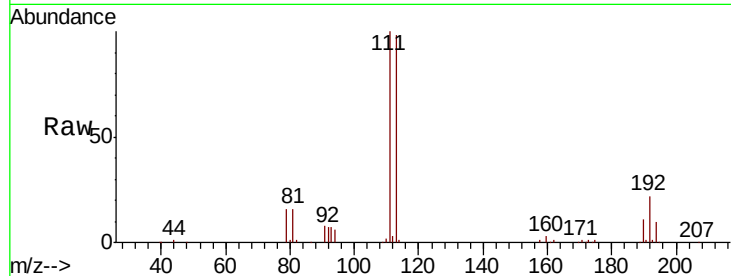




#35
 Dibromofluoromethane
 Concen: 47.86 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050368.D
 Acq: 4 Aug 2018 15:46

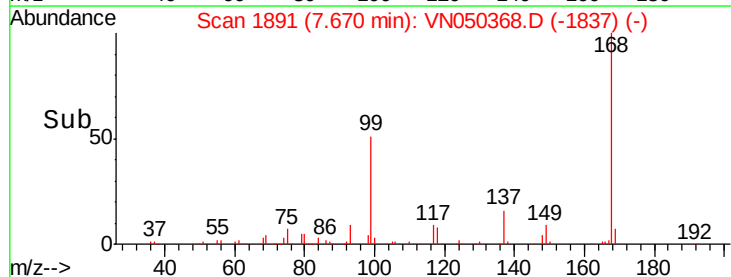
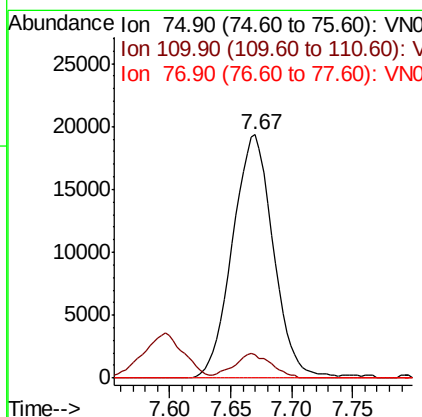
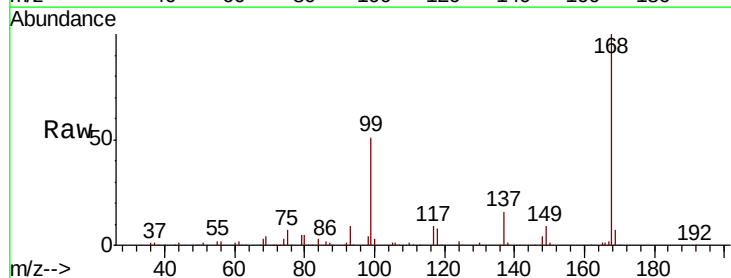
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-29

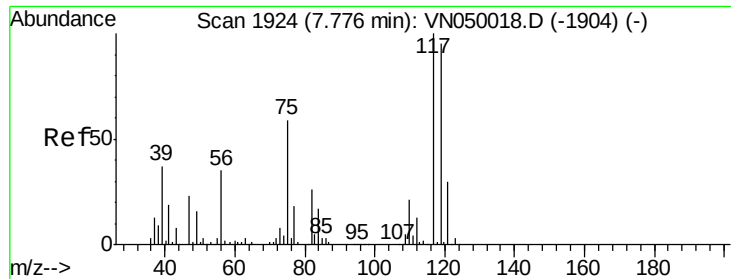
Tot Ion:113 Resp: 400313
 Ion Ratio Lower Upper
 113 100
 111 101.7 80.7 121.1
 192 22.1 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050368.D
 Acq: 4 Aug 2018 15:46

Tgt Ion: 75 Resp: 44795
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.4 55.2#
 77 0.0 25.3 37.9#

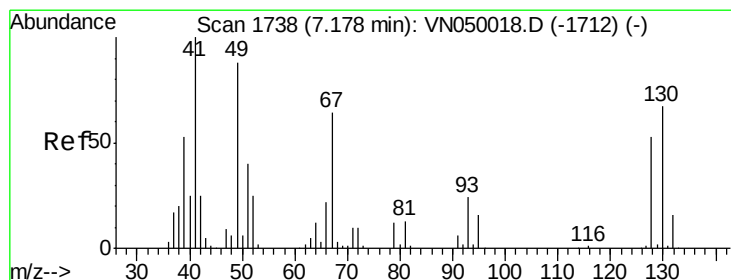
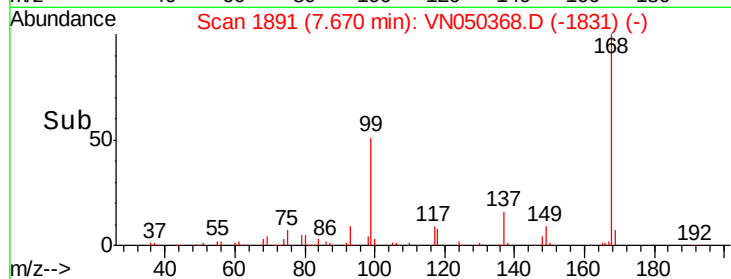
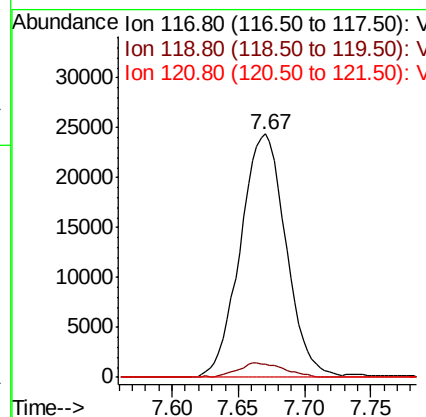
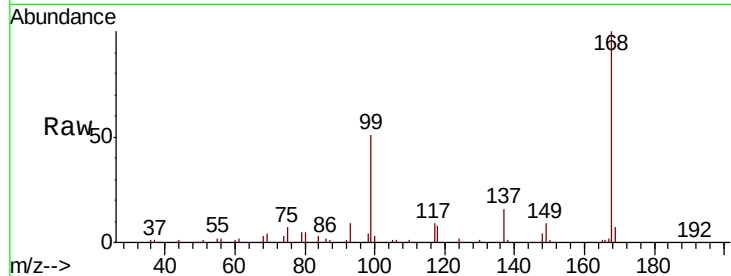




#38
Carbon Tetrachloride
Concen: 4.76 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

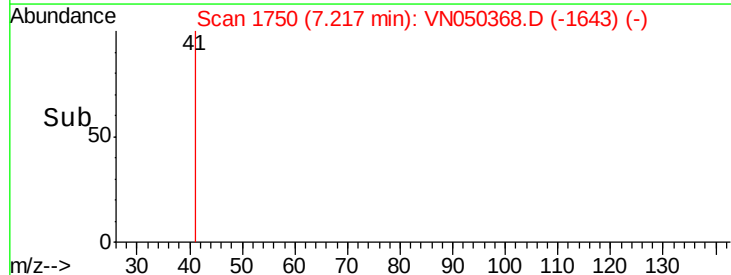
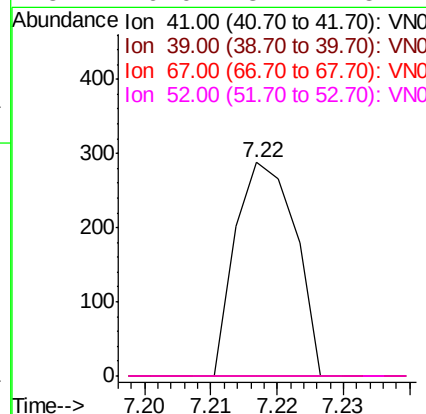
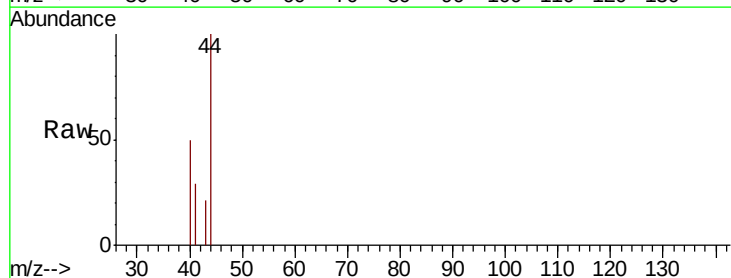
Instrument :
MSVOA_N
ClientSampleId :
MW-29

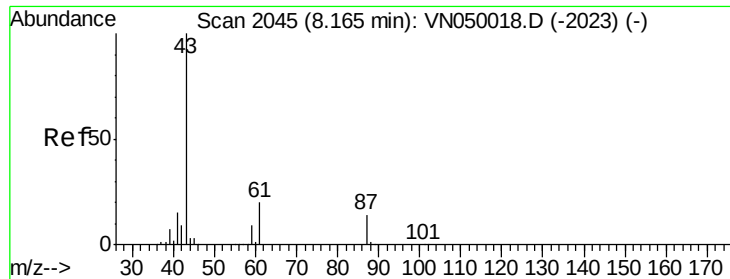
Tot Ion:117 Resp: 58343
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.79 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Tgt Ion: 41 Resp: 180
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#





#43

Isopropyl Acetate

Concen: 1.01 ug/l

RT: 8.26 min Scan# 2073

Delta R.T. 0.09 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

MW-29

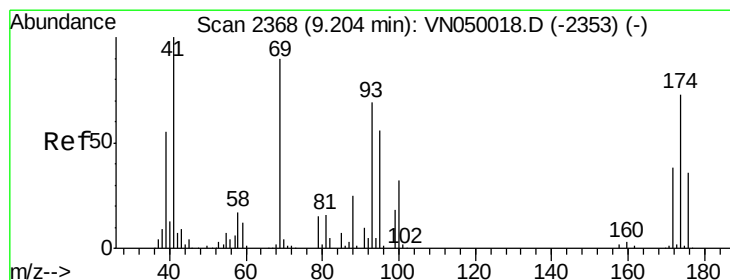
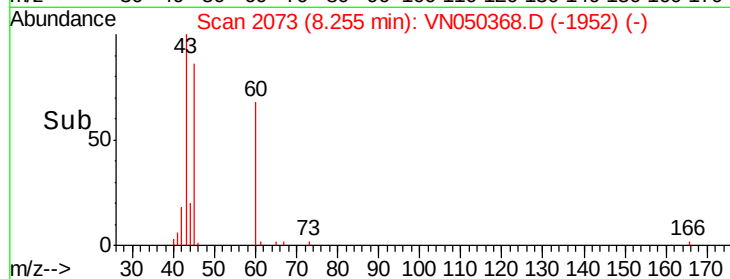
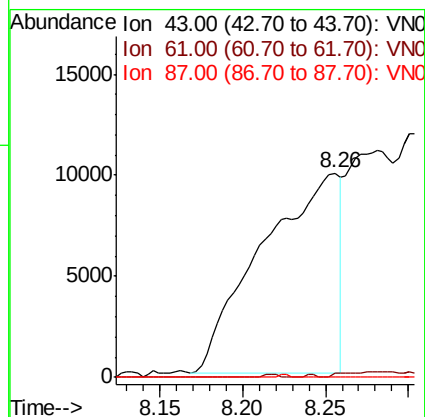
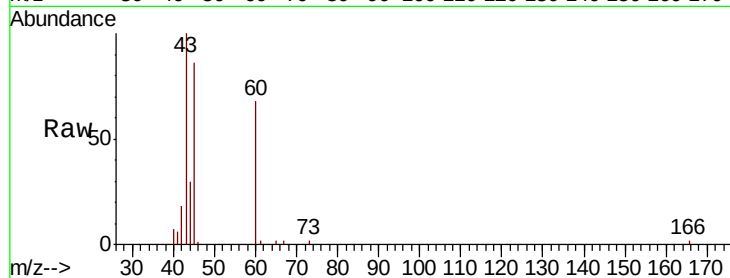
Tot Ion: 43 Resp: 32182

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#49

1,4-Dioxane

Concen: 7.87 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.01 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

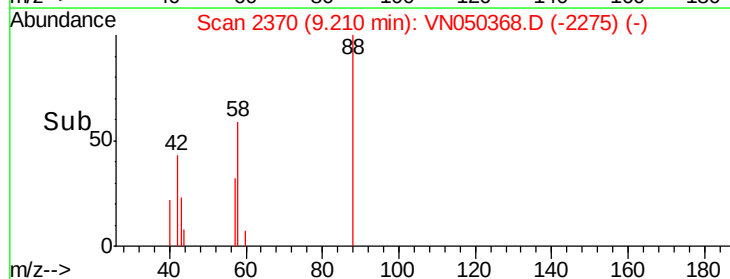
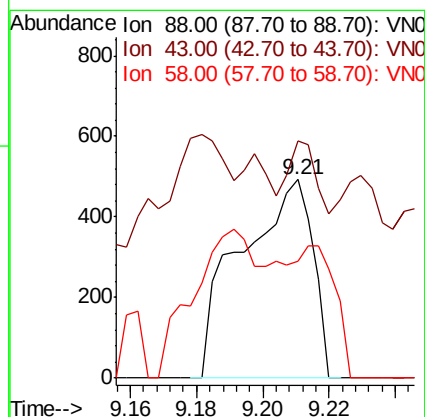
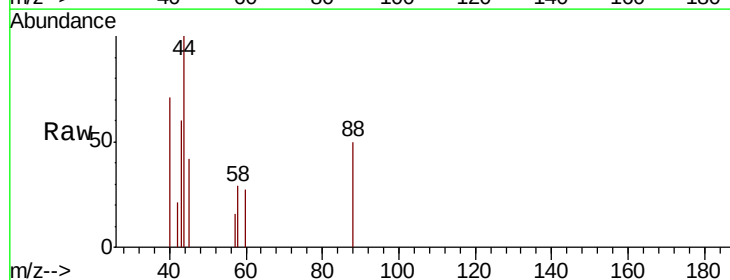
Tgt Ion: 88 Resp: 742

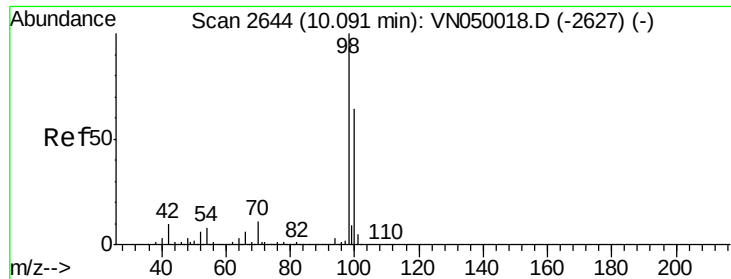
Ion Ratio Lower Upper

88 100

43 21.7 26.9 40.3#

58 0.0 57.3 85.9#





#50

Toluene-d8

Concen: 46.48 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

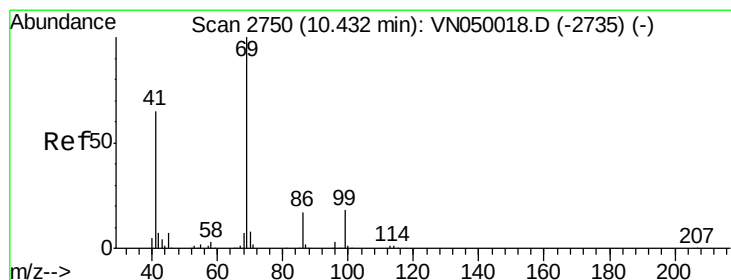
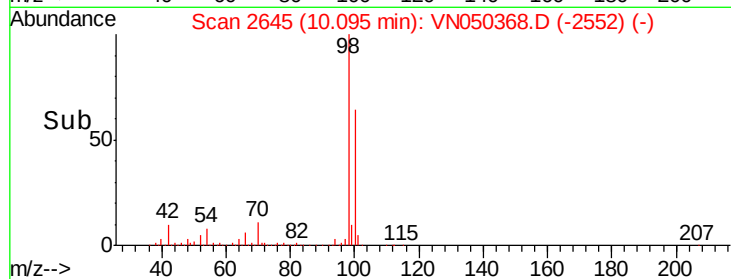
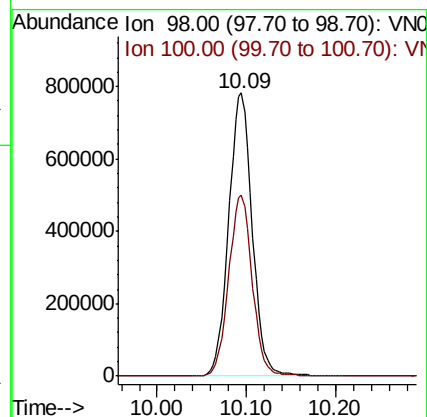
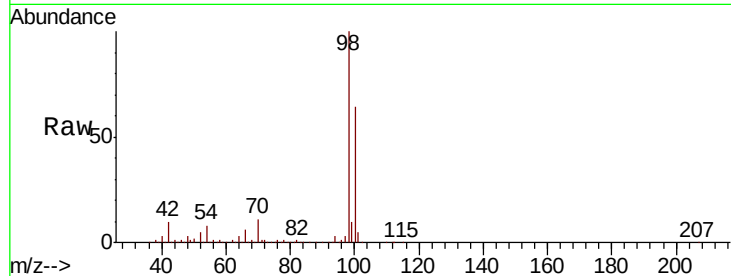
MW-29

Tot Ion: 98 Resp: 1429256

Ion Ratio Lower Upper

98 100

100 63.9 50.7 76.1



#56

Ethyl methacrylate

Concen: 2.05 ug/l

RT: 10.69 min Scan# 2829

Delta R.T. 0.25 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

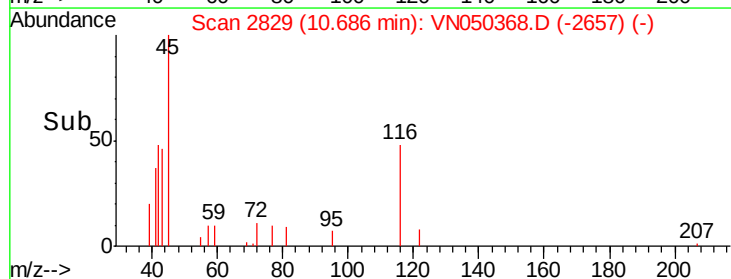
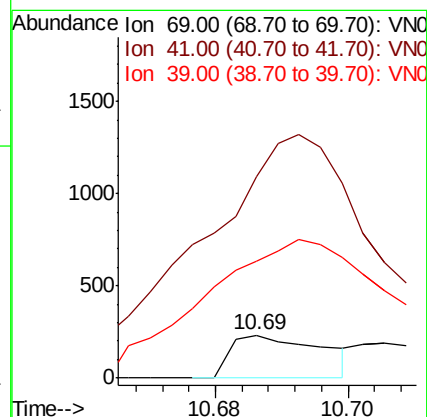
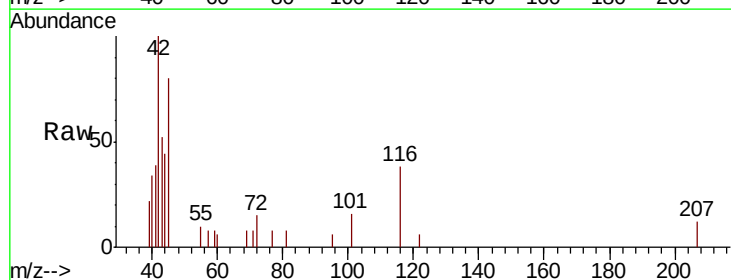
Tgt Ion: 69 Resp: 222

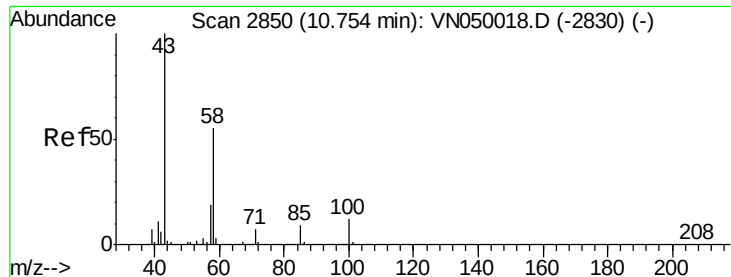
Ion Ratio Lower Upper

69 100

41 824.3 51.0 76.4#

39 653.2 26.6 40.0#

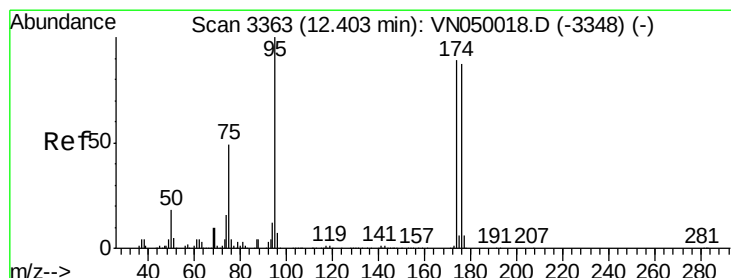
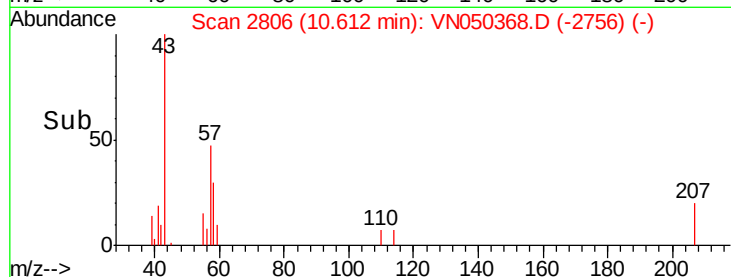
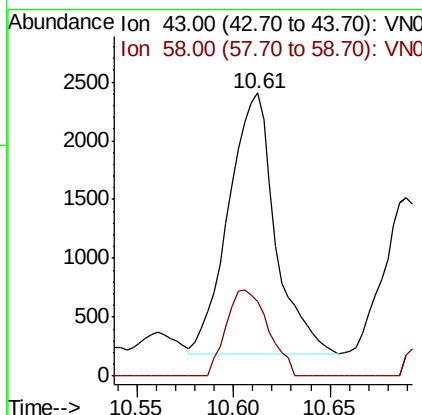
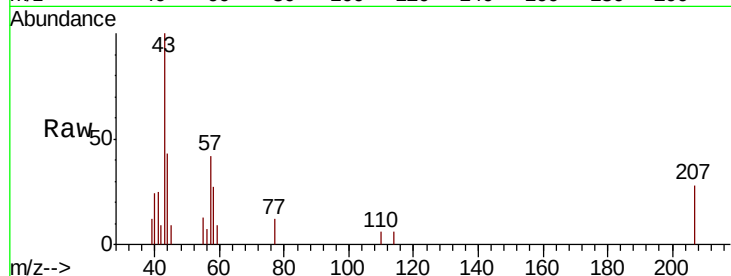




#59
2-Hexanone
Concen: 5.80 ug/l
RT: 10.61 min Scan# 2806
Delta R.T. -0.14 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

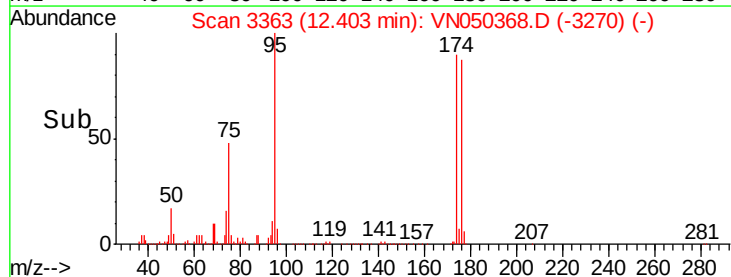
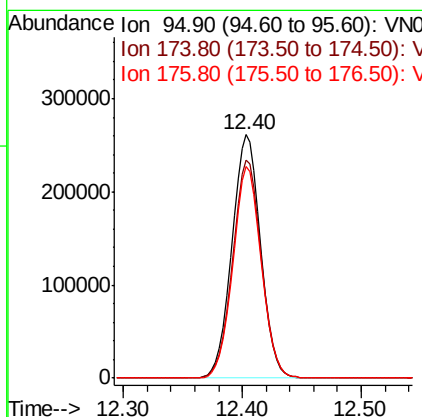
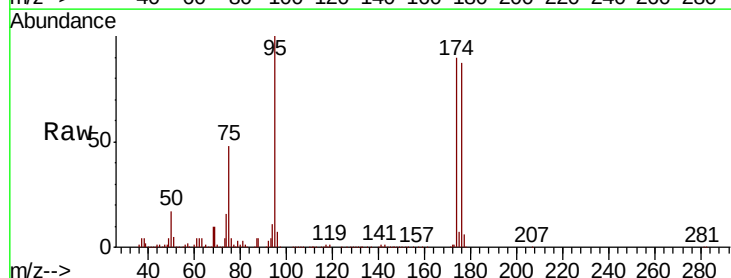
Instrument :
MSVOA_N
ClientSampled :
MW-29

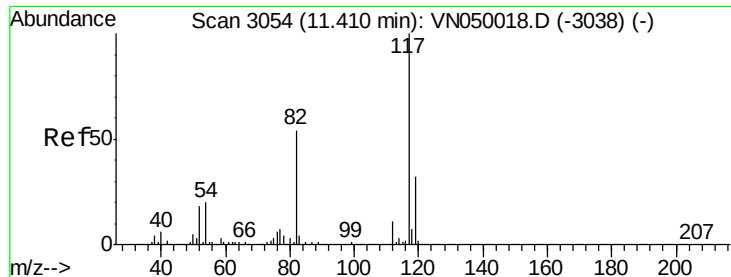
Tot Ion: 43 Resp: 3726
Ion Ratio Lower Upper
43 100
58 29.7 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 42.86 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Tgt Ion: 95 Resp: 433982
Ion Ratio Lower Upper
95 100
174 90.1 0.0 178.2
176 86.5 0.0 173.4

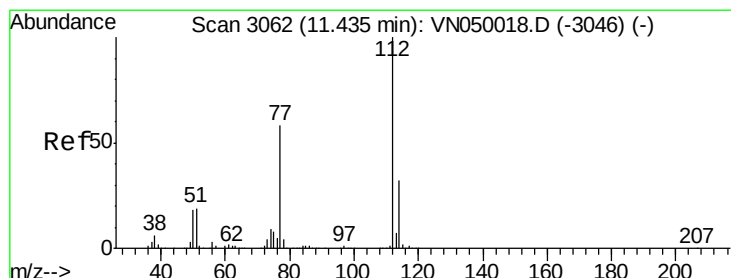
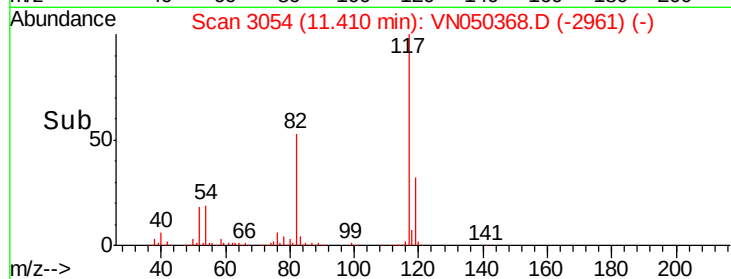
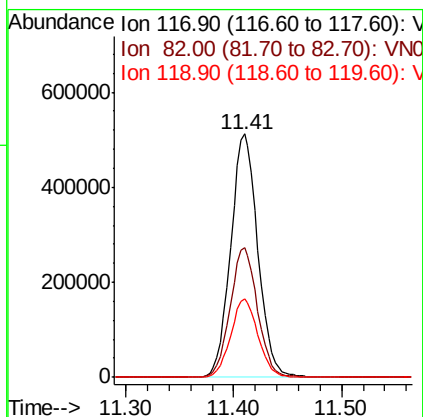
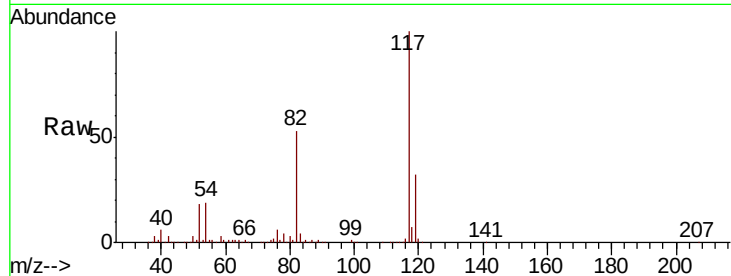




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

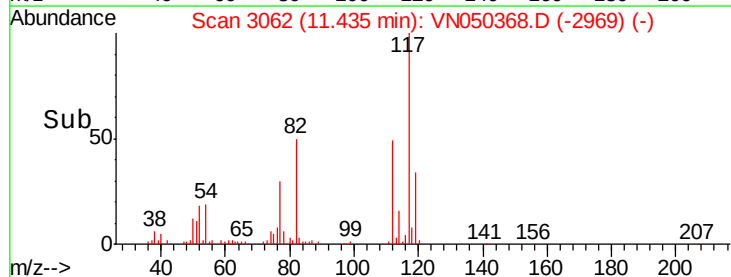
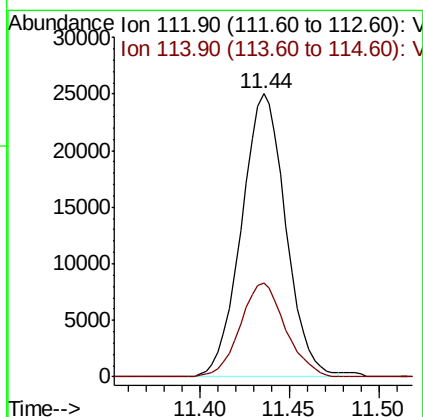
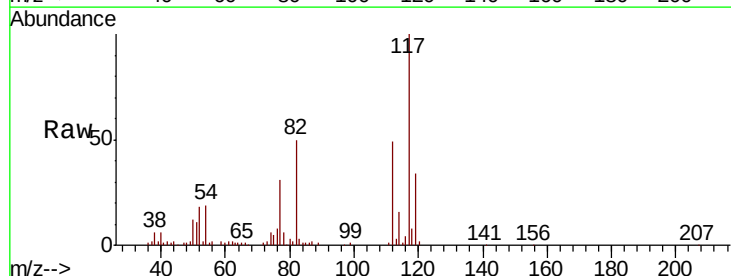
Instrument :
MSVOA_N
ClientSampleId :
MW-29

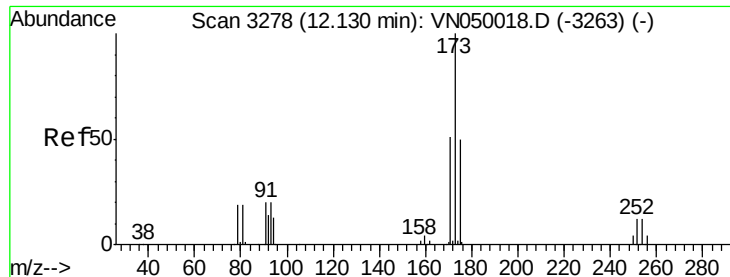
Tot Ion:117 Resp: 896976
Ion Ratio Lower Upper
117 100
82 53.1 43.7 65.5
119 32.4 26.1 39.1



#65
Chlorobenzene
Concen: 1.92 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Tgt Ion:112 Resp: 43456
Ion Ratio Lower Upper
112 100
114 33.0 25.6 38.4





#71

Bromoform

Concen: 0.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

MW-29

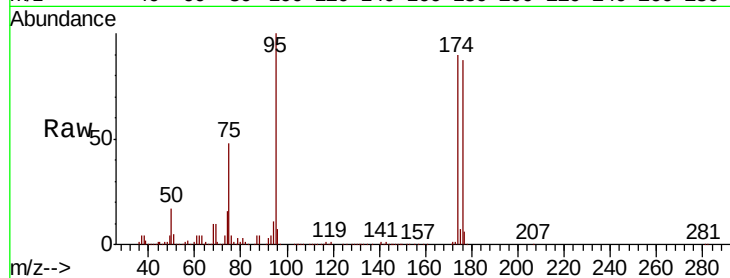
Tot Ion:173 Resp: 3873

Ion Ratio Lower Upper

173 100

175 668.0 24.1 72.2#

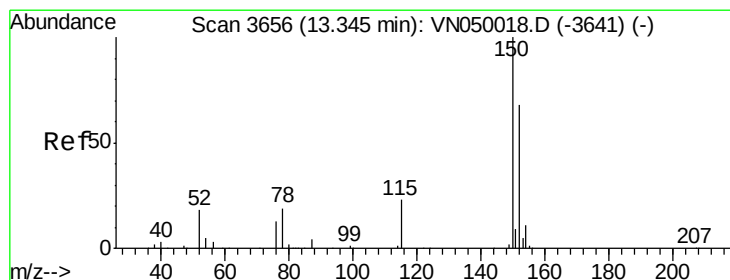
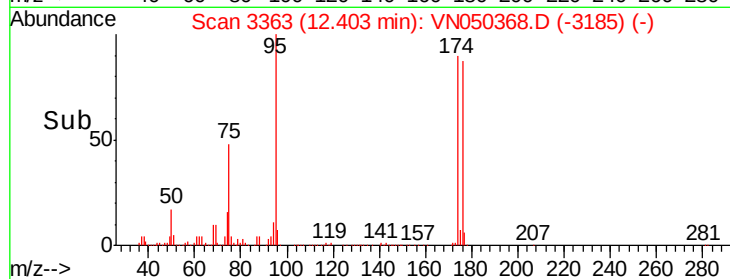
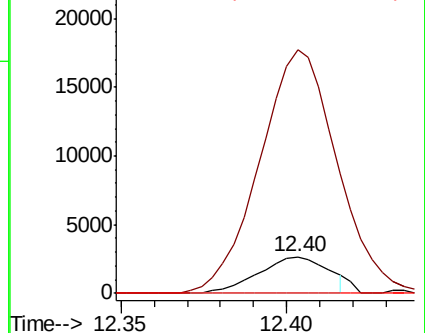
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

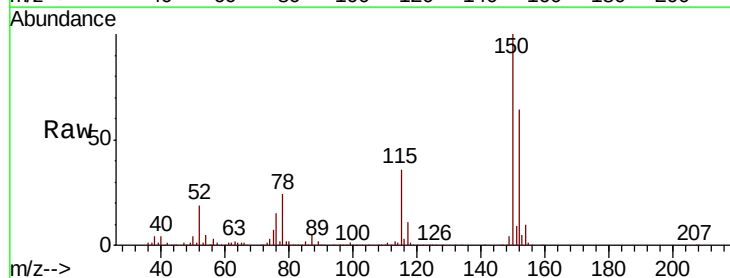
Tgt Ion:152 Resp: 381630

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.3

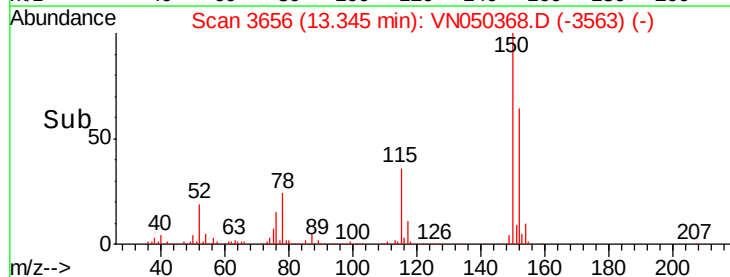
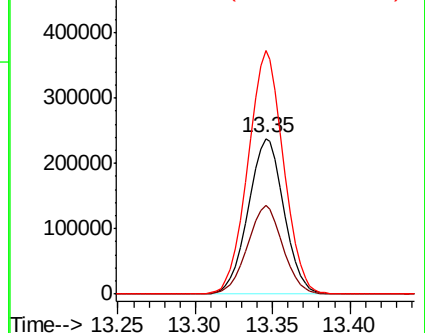
150 155.8 0.0 348.6

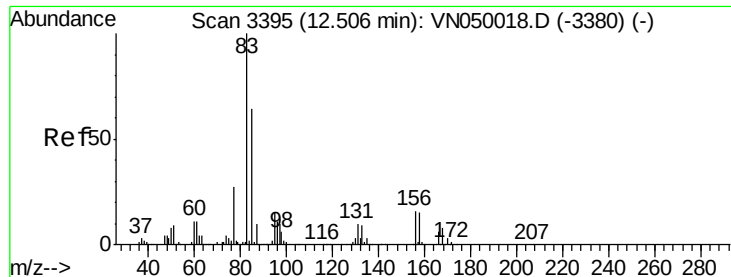


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3367

Delta R.T. -0.09 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampleId :

MW-29

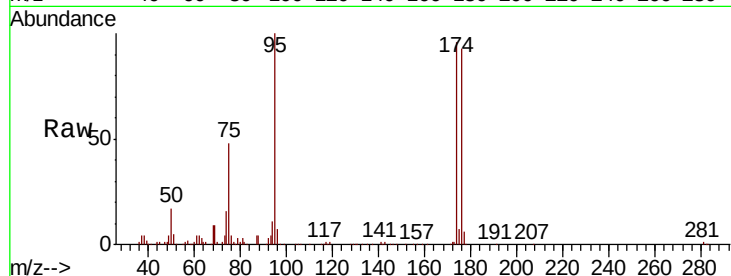
Tot Ion: 83 Resp: 323

Ion Ratio Lower Upper

83 100

131 9.9 5.1 15.3

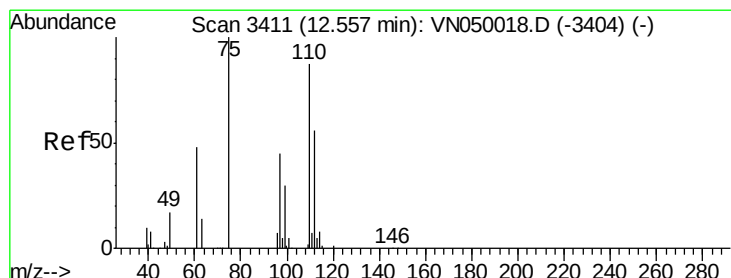
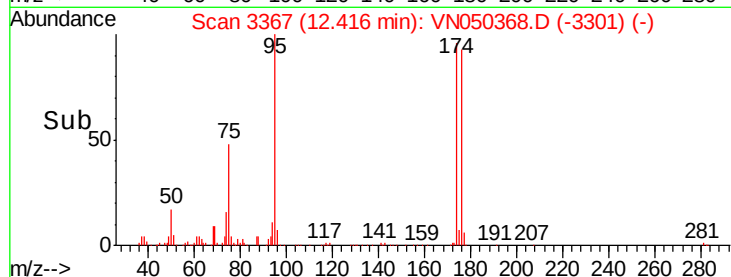
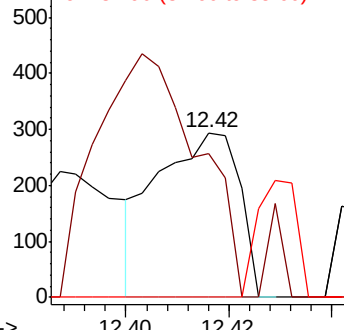
85 34.1 32.3 96.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 29.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050368.D

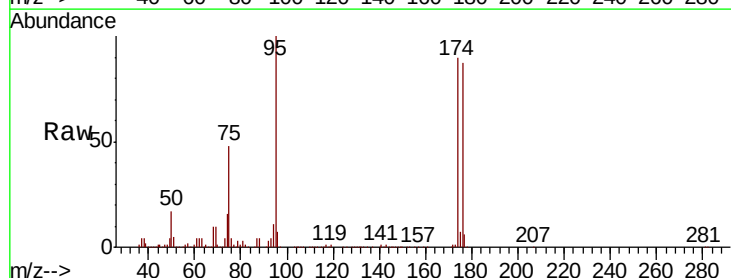
Acq: 4 Aug 2018 15:46

Tgt Ion: 75 Resp: 210134

Ion Ratio Lower Upper

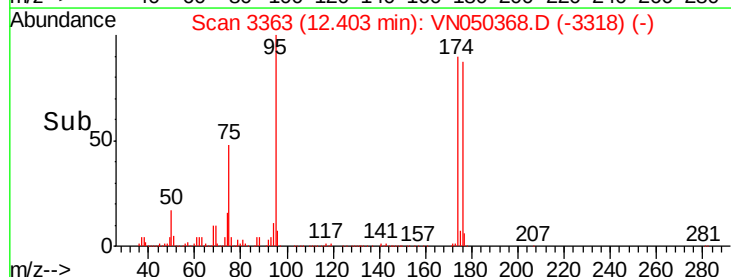
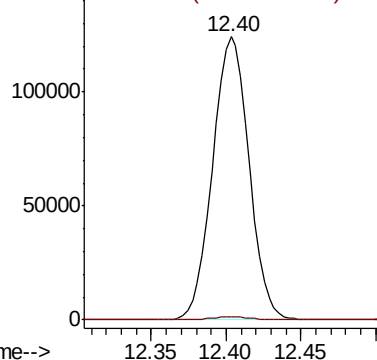
75 100

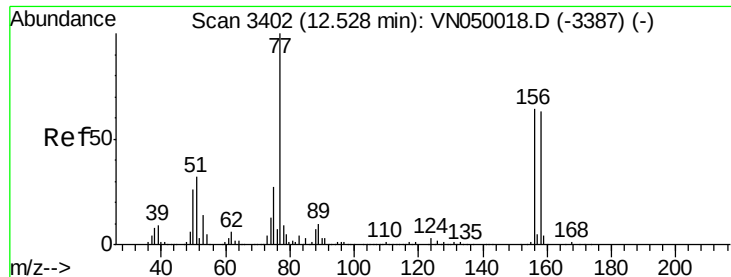
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 0.56 ug/l

RT: 12.55 min Scan# 3409

Delta R.T. 0.02 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

MW-29

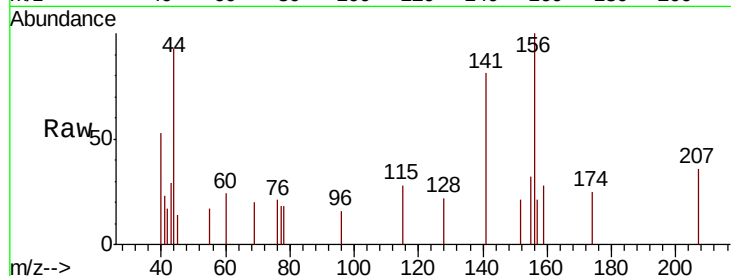
Tot Ion:156 Resp: 4570

Ion Ratio Lower Upper

156 100

77 4.9 91.7 275.1#

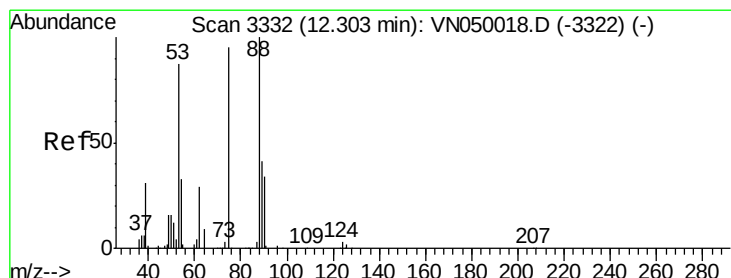
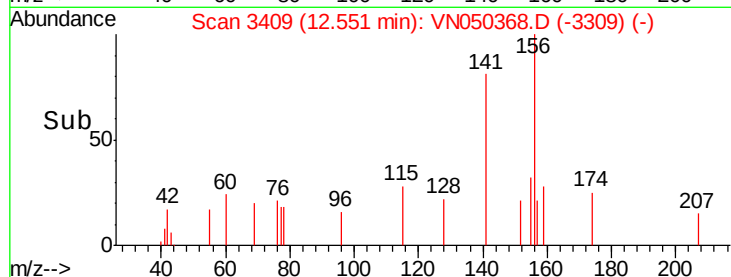
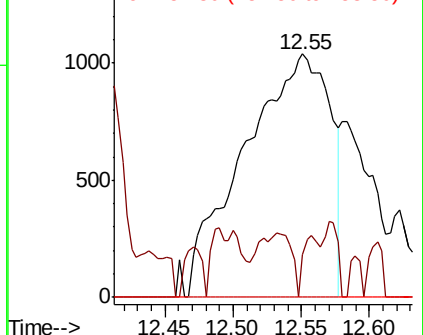
158 0.0 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 93.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

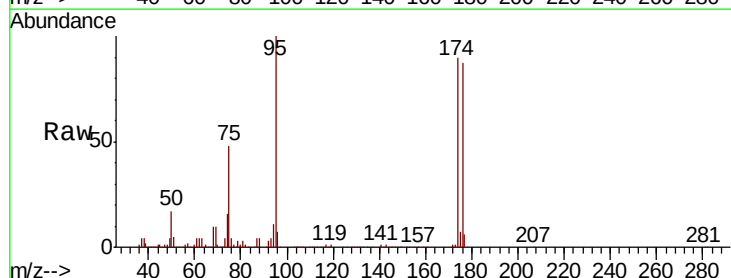
Tgt Ion: 75 Resp: 210134

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

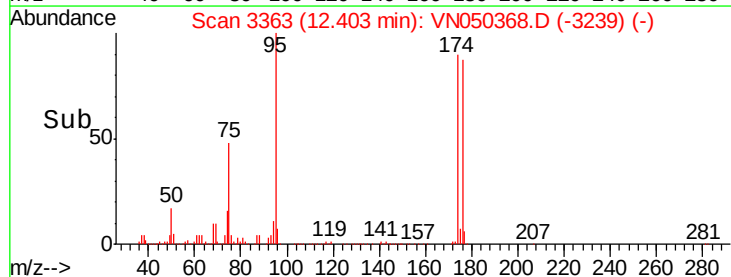
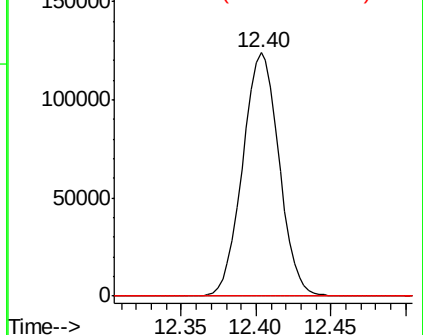
89 0.0 36.0 54.0#

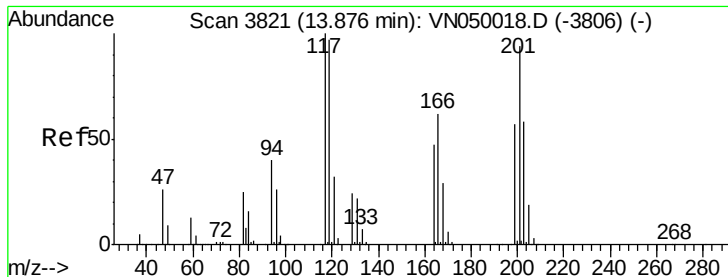


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: 0.42 ua/l

RT: 13.99 min Scan# 3858

Delta R.T. 0.12 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

Instrument :

MSVOA_N

ClientSampled :

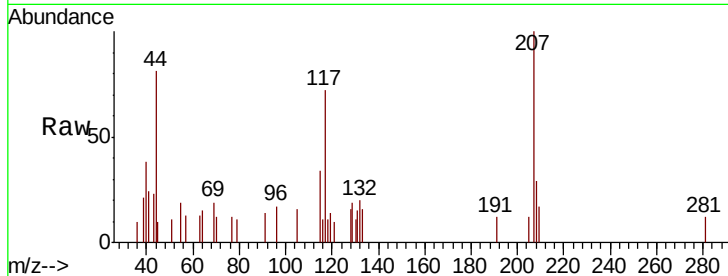
MW-29

Tot Ion:117 Resp: 2136

Ion Ratio Lower Upper

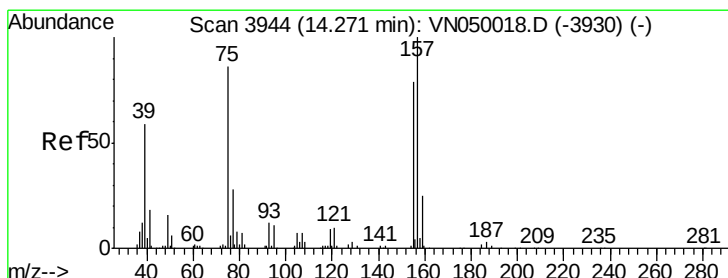
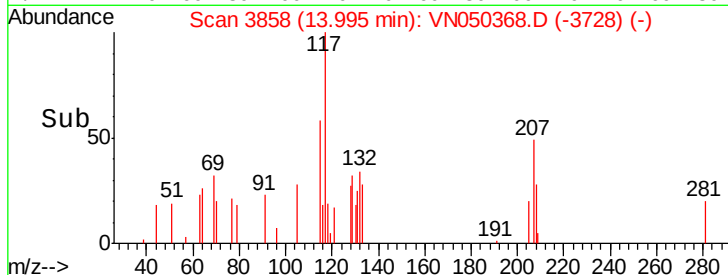
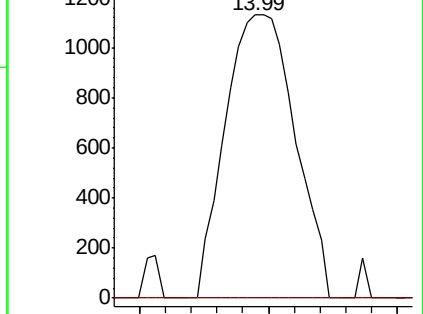
117 100

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: Below Cal

RT: 14.28 min Scan# 3948

Delta R.T. 0.01 min

Lab File: VN050368.D

Acq: 4 Aug 2018 15:46

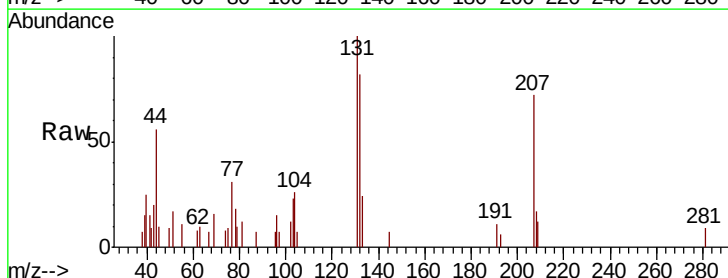
Tgt Ion: 75 Resp: 220

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

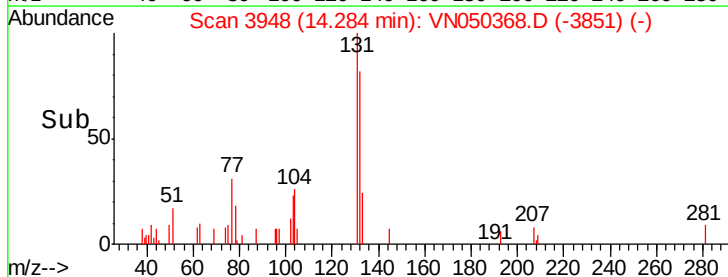
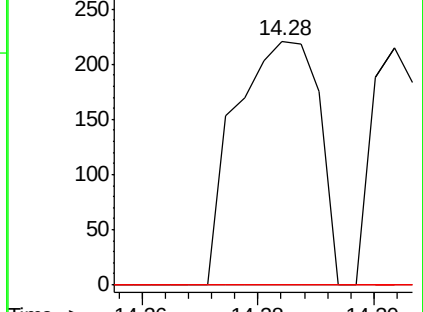
157 0.0 57.2 171.6#

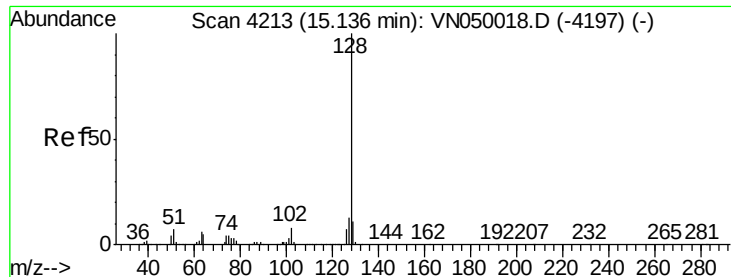


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 4.49 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050368.D
Acq: 4 Aug 2018 15:46

Instrument :
MSVOA_N
ClientSampleId :
MW-29

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#

