

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050302.D
 Acq On : 3 Aug 2018 7:56
 Operator : MD\SY
 Sample : J4303-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-A20

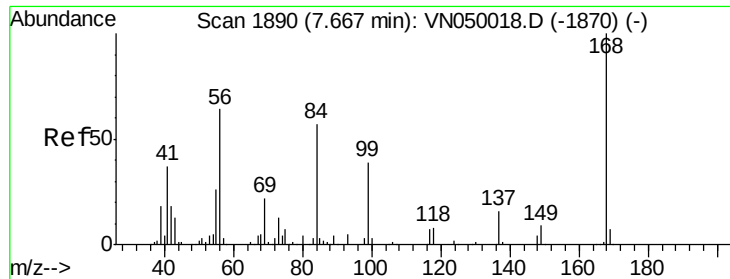
Quant Time: Aug 03 08:19:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	728553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1169657	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	972984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	395010	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	497362	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	7.60	113	448055	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	
50) Toluene-d8	10.09	98	1579219	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	
62) 4-Bromofluorobenzene	12.40	95	453646	39.24	ug/l	0.00
Spiked Amount			Recovery	=	78.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3655	0.32	ug/l	92
5) Bromomethane	2.56	94	314	Below Cal	#	79
16) Acetone	3.83	43	21558	4.74	ug/l	99
17) Carbon Disulfide	4.05	76	8682	0.34	ug/l	98
18) Methyl Acetate	4.34	43	14079	Below Cal	#	85
19) Methyl tert-butyl Ether	5.05	73	5888	0.26	ug/l	89
20) Methylene Chloride	4.55	84	2590	Below Cal	#	90
31) Cyclohexane	7.67	56	13654	0.91	ug/l	1
36) 1,1-Dichloropropene	7.67	75	50560	3.84	ug/l	48
38) Carbon Tetrachloride	7.67	117	64752	4.63	ug/l	17
41) Methacrylonitrile	7.39	41	29	2.75	ug/l	23
43) Isopropyl Acetate	8.25	43	195741	10.40	ug/l	61
56) Ethyl methacrylate	10.42	69	190	2.04	ug/l	1
59) 2-Hexanone	10.76	43	112	5.19	ug/l	24
71) Bromoform	12.40	173	3729	0.54	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.47	83	608	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	222670	30.33	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	222670	96.21	ug/l	13
83) tert-Butylbenzene	12.99	119	19946	0.95	ug/l	95
85) sec-Butylbenzene	13.17	105	6450	0.23	ug/l	1
86) p-Isopropyltoluene	13.44	119	22662	0.96	ug/l	99
90) Hexachloroethane	13.88	117	1846	0.35	ug/l	4
92) 1,2-Dibromo-3-Chloropropan	14.22	75	196	Below Cal	#	1
95) Naphthalene	15.10	128	4358	4.64	ug/l	3

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

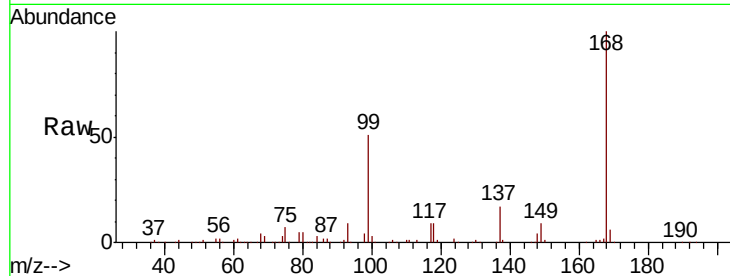
MW-A20

Tot Ion:168 Resp: 728553

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

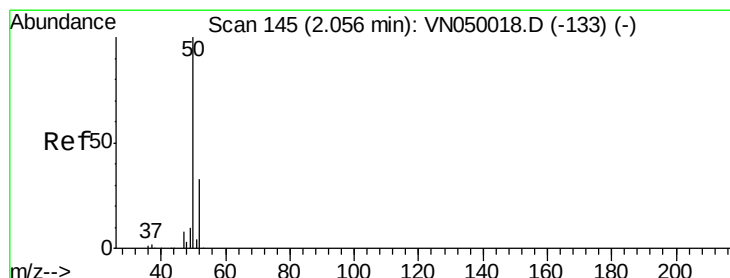
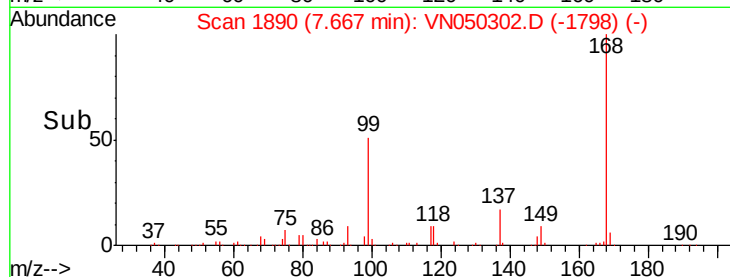
200000

100000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.32 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050302.D

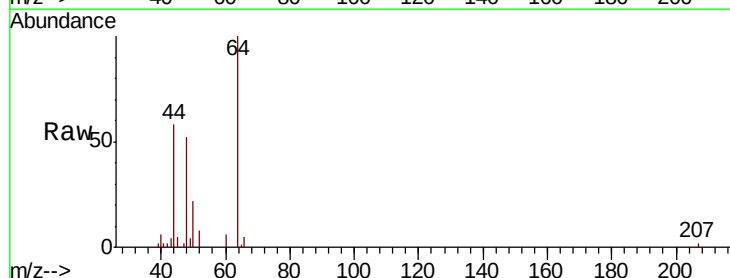
Acq: 3 Aug 2018 7:56

Tgt Ion: 50 Resp: 3655

Ion Ratio Lower Upper

50 100

52 36.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

3000

2500

2000

1500

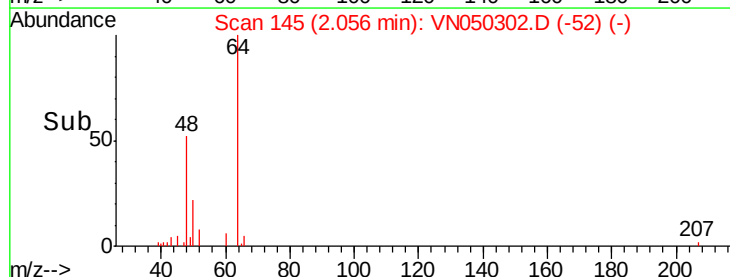
1000

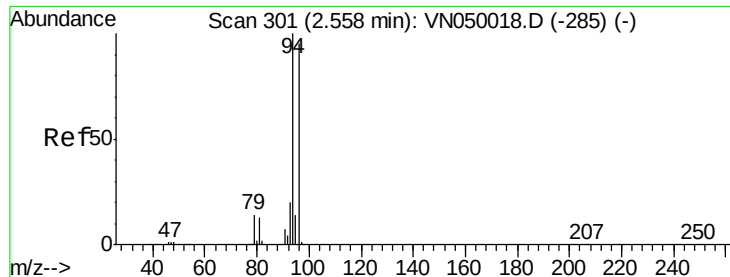
500

0

2.00 2.05 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

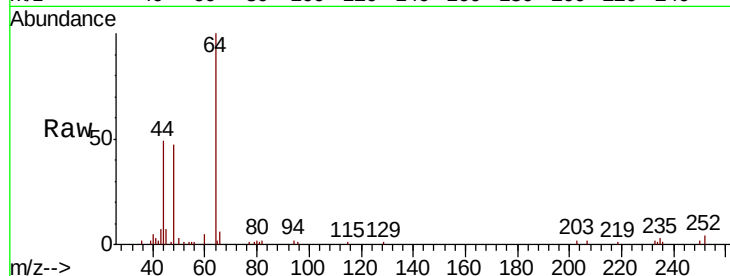
MW-A20

Tot Ion: 94 Resp: 314

Ion Ratio Lower Upper

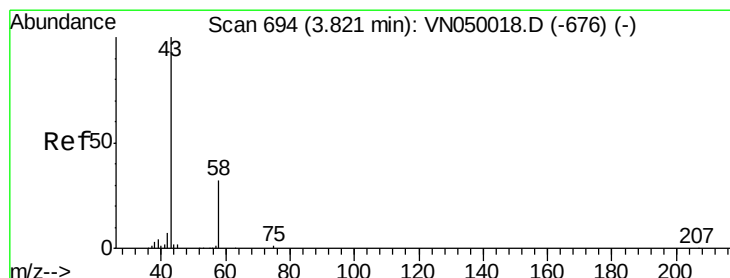
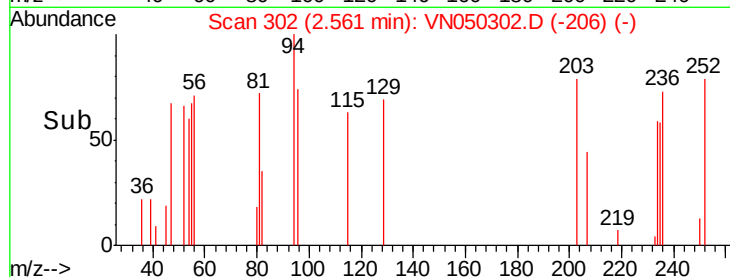
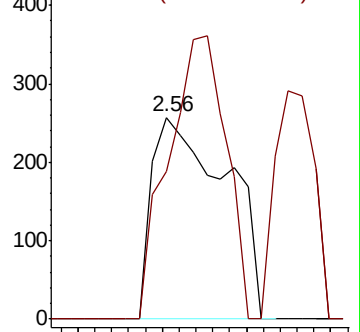
94 100

96 73.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#16

Acetone

Concen: 4.74 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050302.D

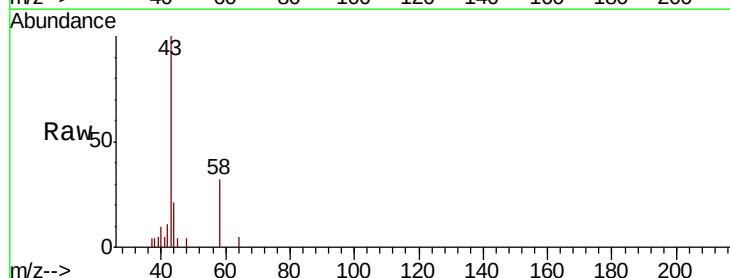
Acq: 3 Aug 2018 7:56

Tgt Ion: 43 Resp: 21558

Ion Ratio Lower Upper

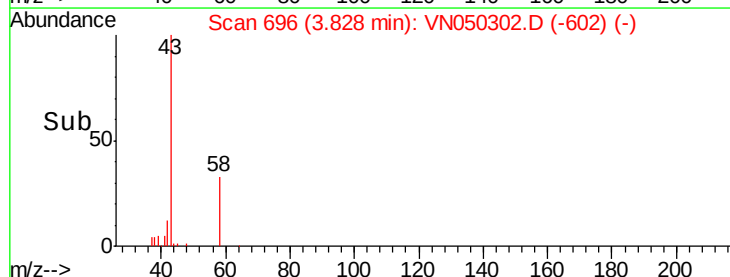
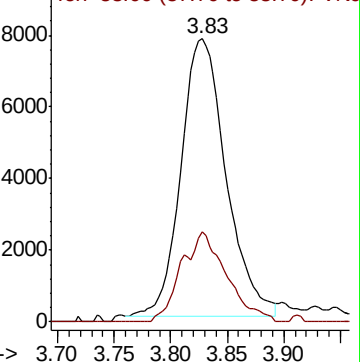
43 100

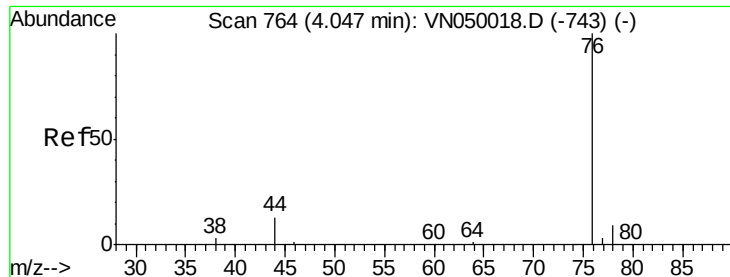
58 32.6 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

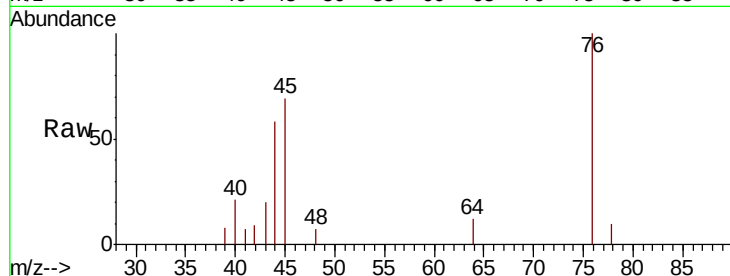
MW-A20

Tot Ion: 76 Resp: 8682

Ion Ratio Lower Upper

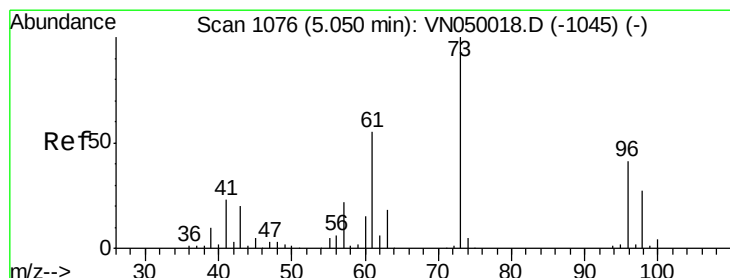
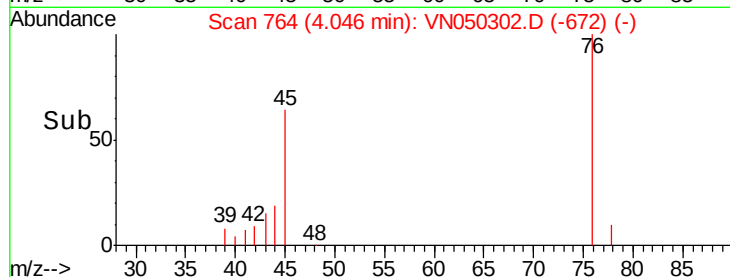
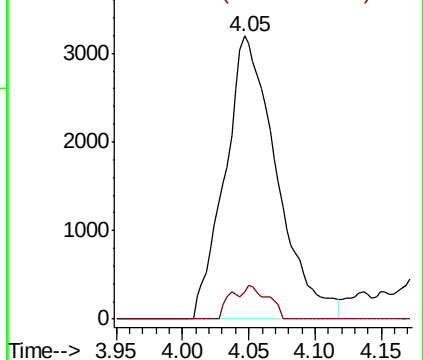
76 100

78 9.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#19

Methyl tert-butyl Ether

Concen: 0.26 ug/l

RT: 5.05 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VN050302.D

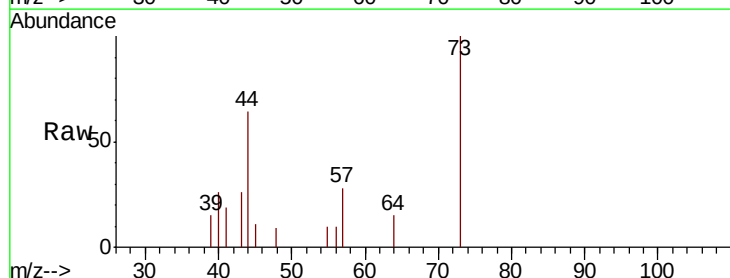
Acq: 3 Aug 2018 7:56

Tgt Ion: 73 Resp: 5888

Ion Ratio Lower Upper

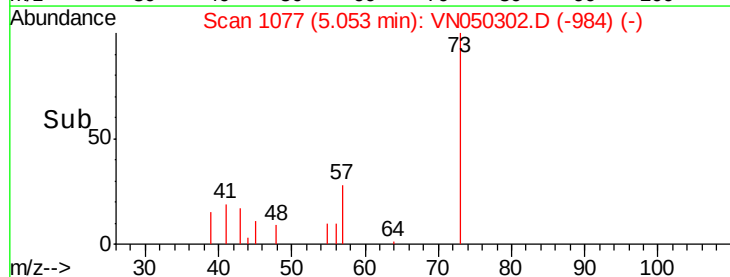
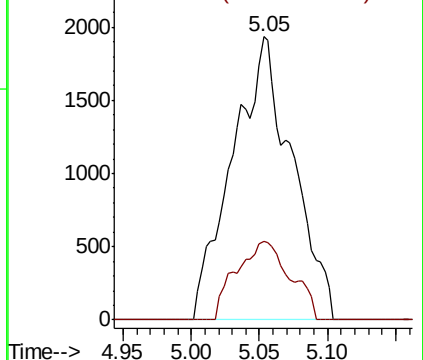
73 100

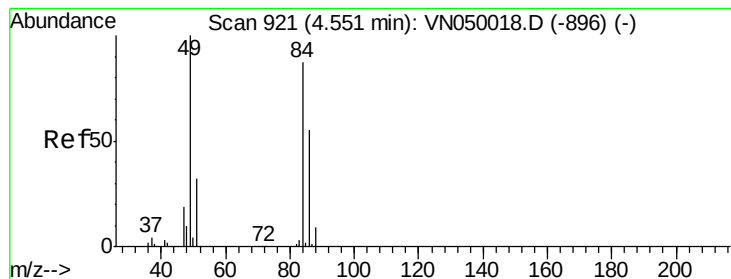
57 27.8 18.0 27.0#



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

MW-A20

Tot Ion: 84 Resp: 2590

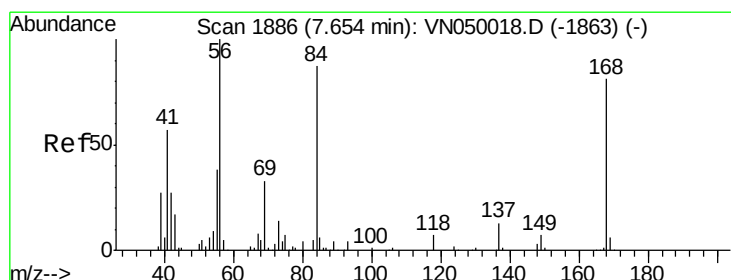
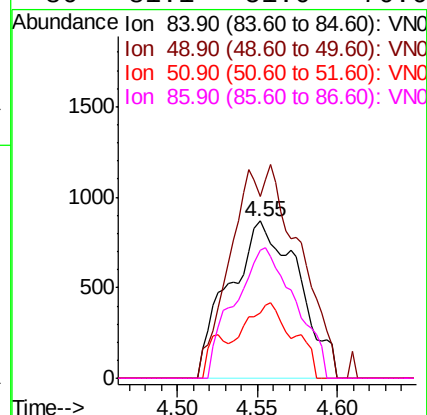
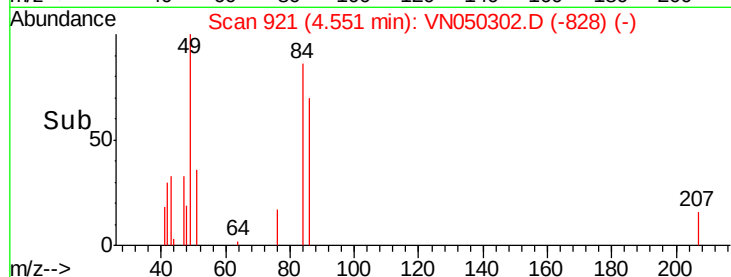
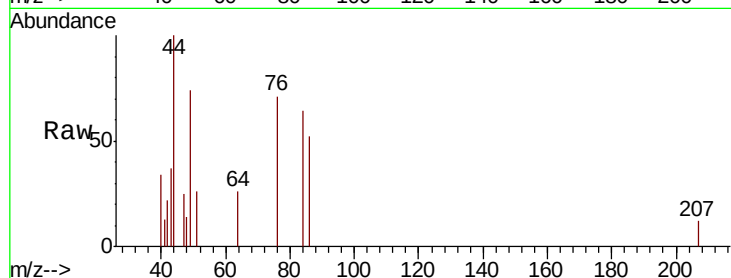
Ion Ratio Lower Upper

84 100

49 115.9 94.8 142.2

51 41.5 28.3 42.5

86 81.1 51.0 76.6#



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

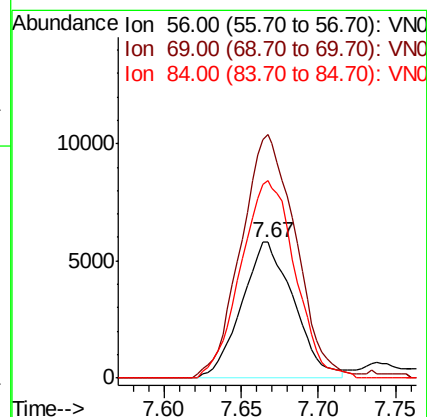
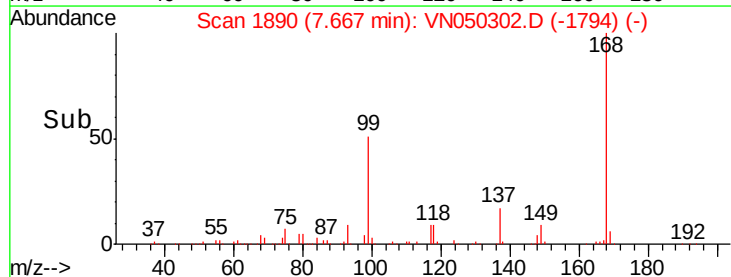
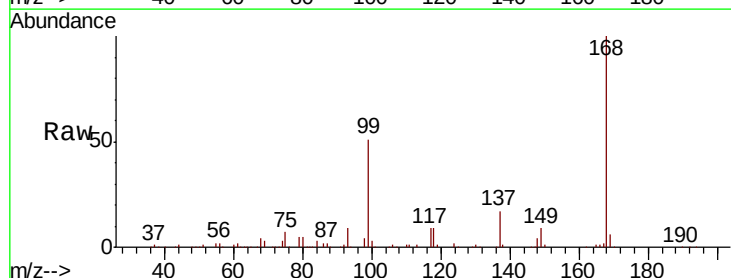
Tgt Ion: 56 Resp: 13654

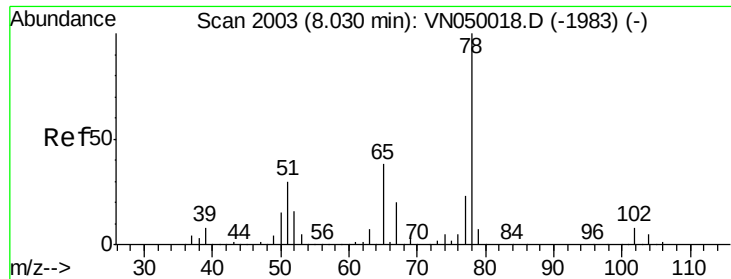
Ion Ratio Lower Upper

56 100

69 179.5 26.2 39.4#

84 145.5 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 48.93 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

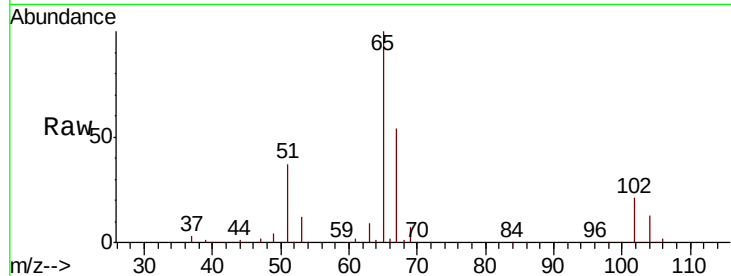
MW-A20

Tot Ion: 65 Resp: 497362

Ion Ratio Lower Upper

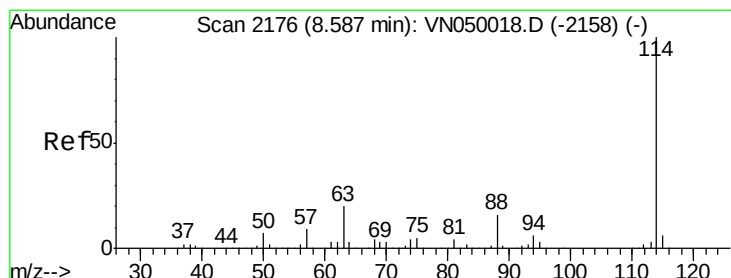
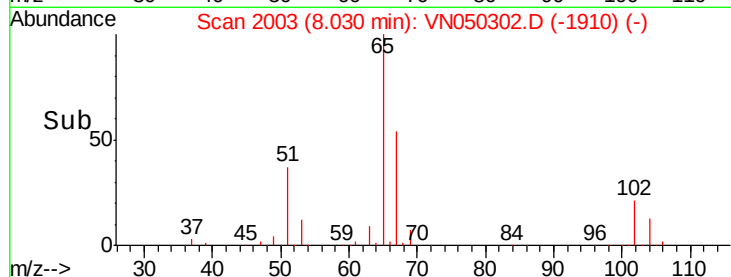
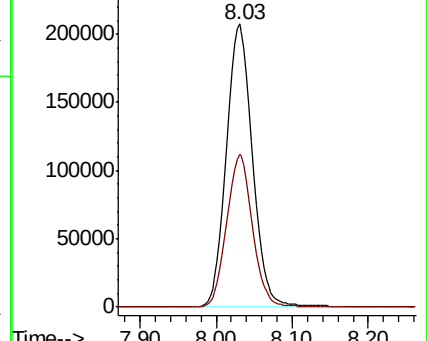
65 100

67 53.0 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

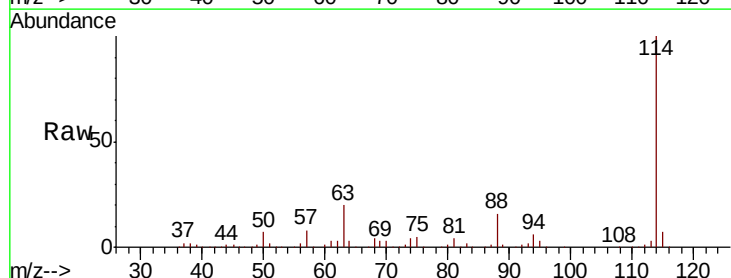
Tgt Ion: 114 Resp: 1169657

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

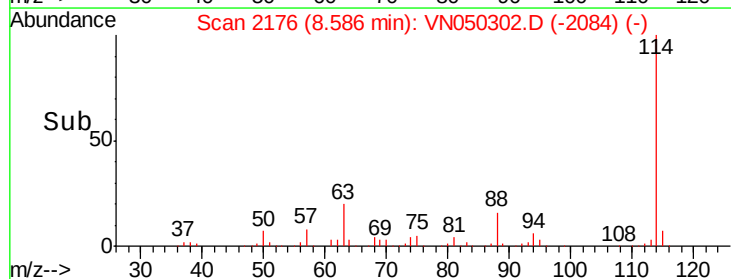
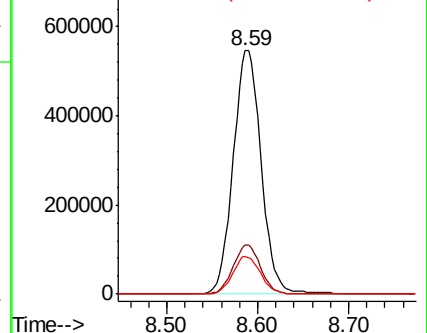
88 15.6 0.0 31.2

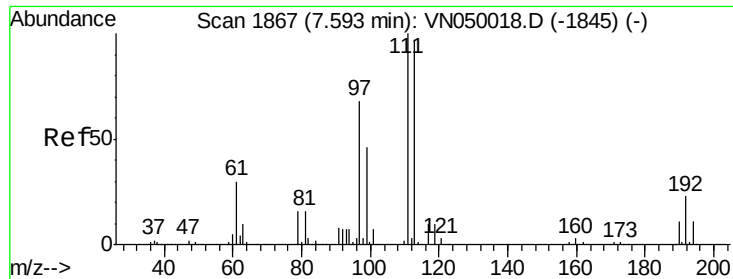


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

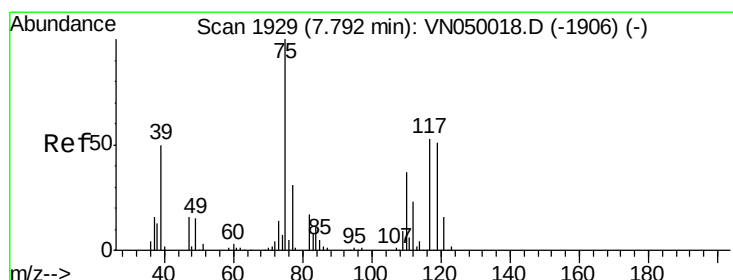
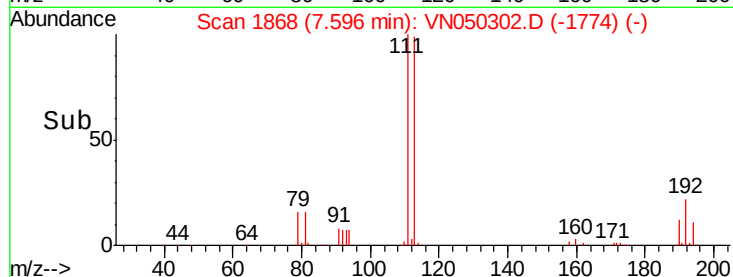
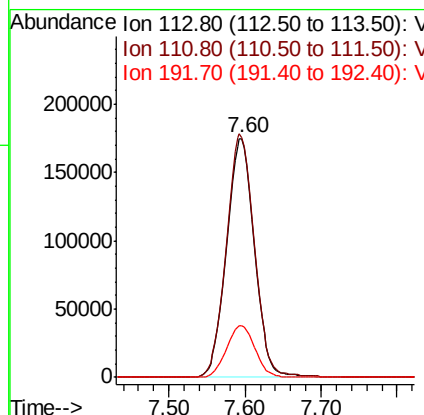
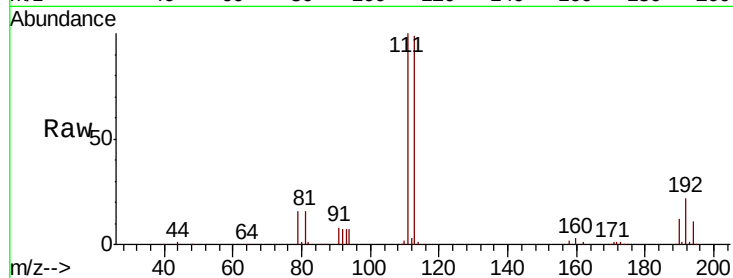




#35
 Dibromofluoromethane
 Concen: 46.92 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050302.D
 Acq: 3 Aug 2018 7:56

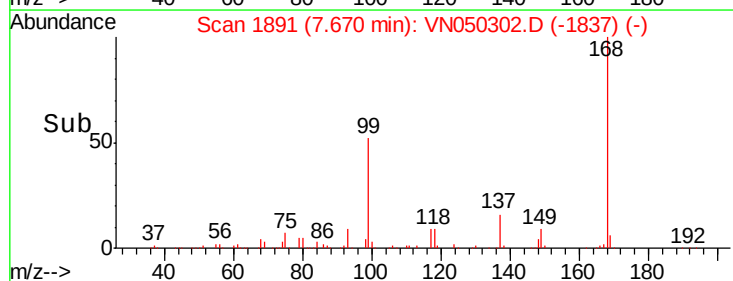
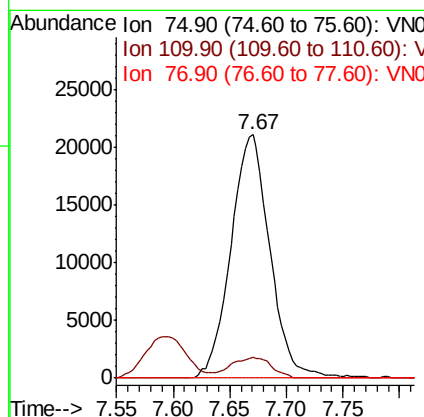
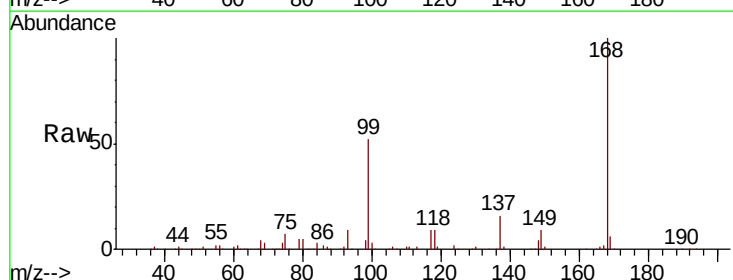
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-A20

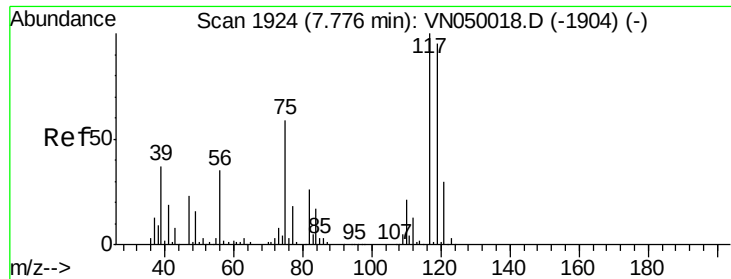
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.7	121.1
192	22.0	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.84 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050302.D
 Acq: 3 Aug 2018 7:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.4	55.2#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 4.63 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

MW-A20

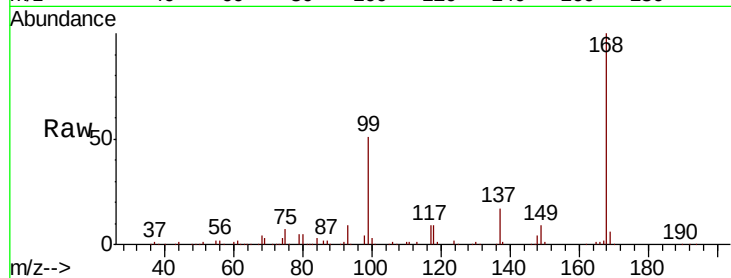
Tot Ion:117 Resp: 64752

Ion Ratio Lower Upper

117 100

119 7.2 77.4 116.0#

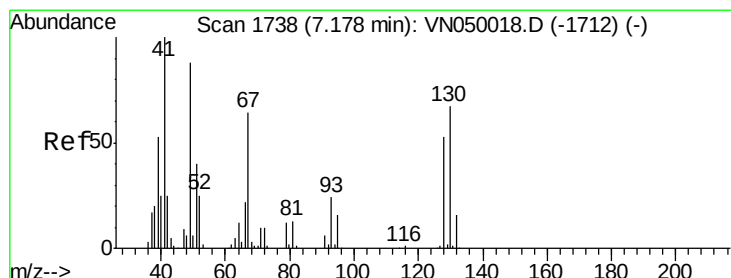
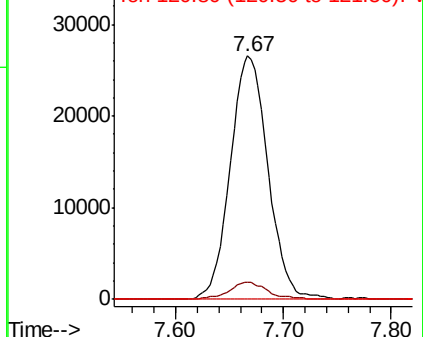
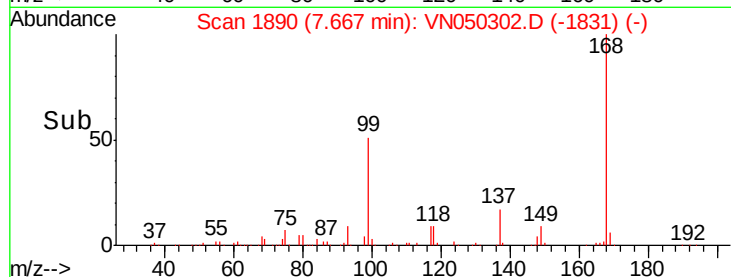
121 0.0 23.9 35.9#



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



#41

Methacrylonitrile

Concen: 2.75 ug/l

RT: 7.39 min Scan# 1805

Delta R.T. 0.22 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Tgt Ion: 41 Resp: 29

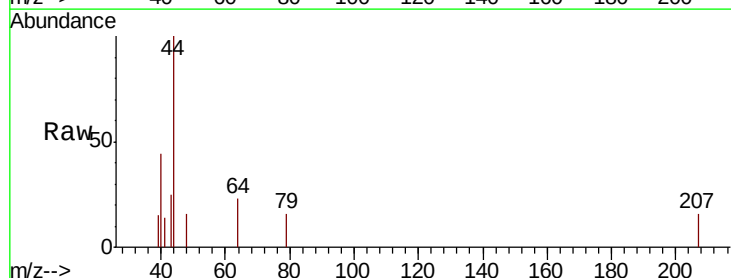
Ion Ratio Lower Upper

41 100

39 106.9 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

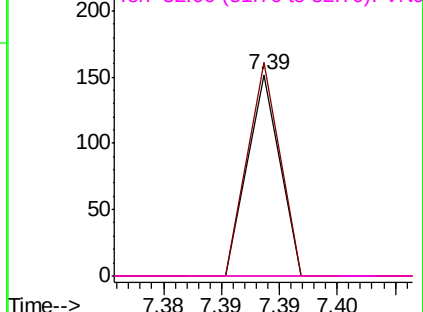
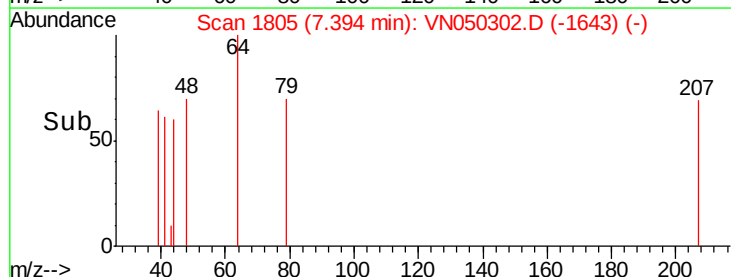


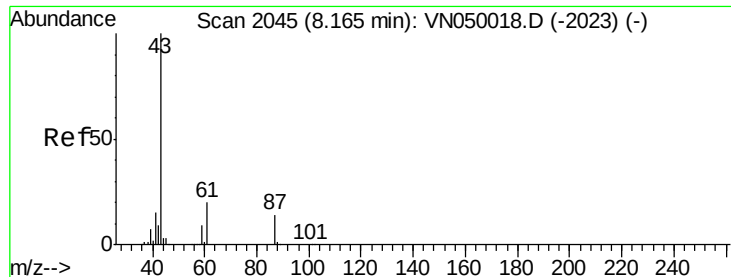
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.40 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

MW-A20

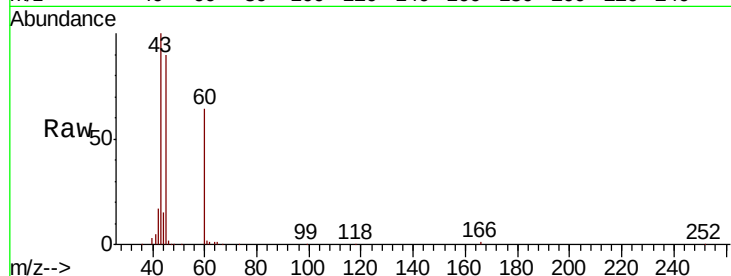
Tot Ion: 43 Resp: 195741

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

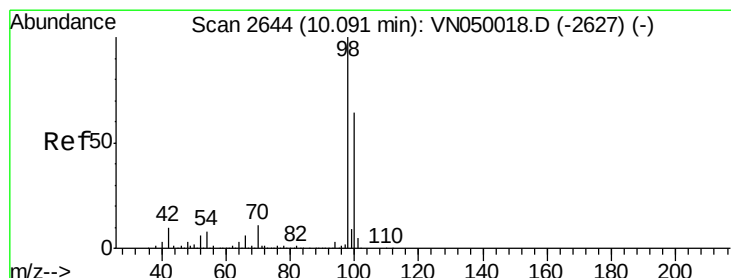
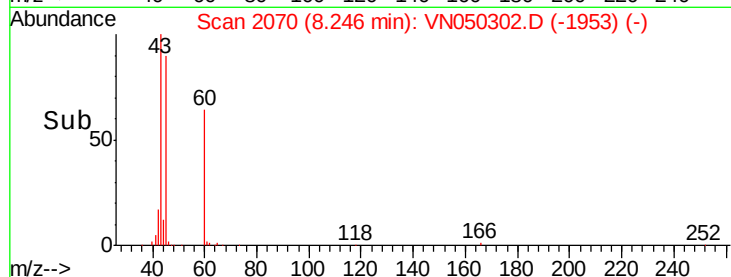
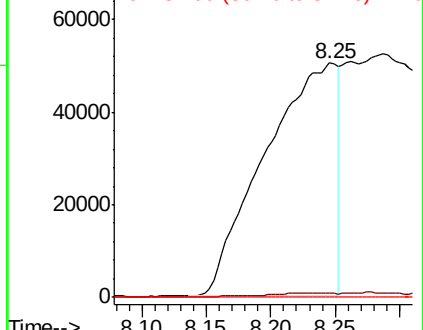
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 44.98 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050302.D

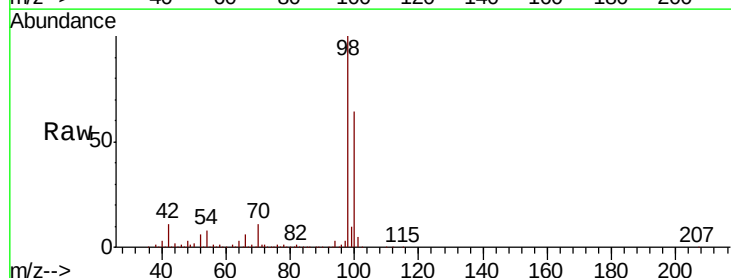
Acq: 3 Aug 2018 7:56

Tgt Ion: 98 Resp: 1579219

Ion Ratio Lower Upper

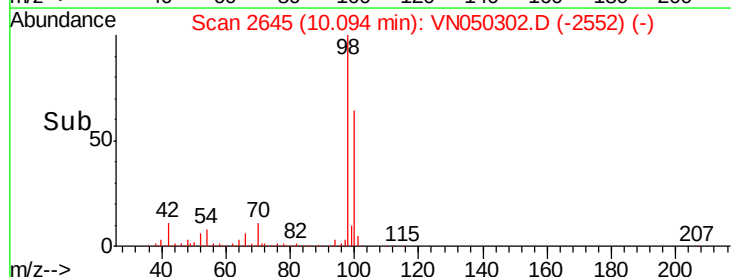
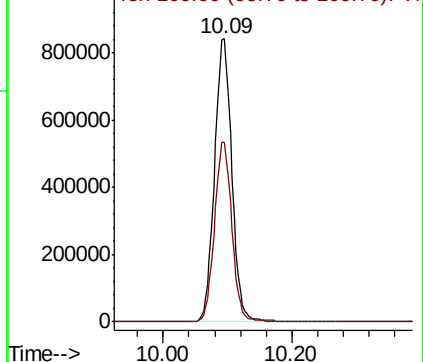
98 100

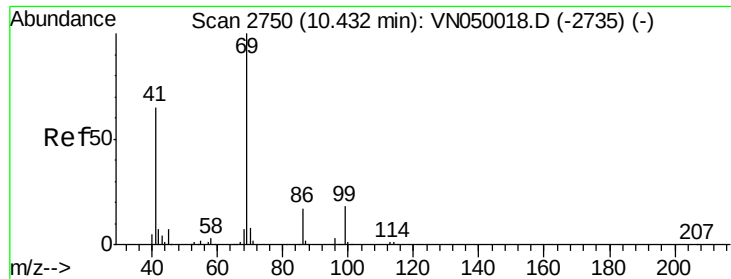
100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.42 min Scan# 2747

Delta R.T. -0.01 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

MW-A20

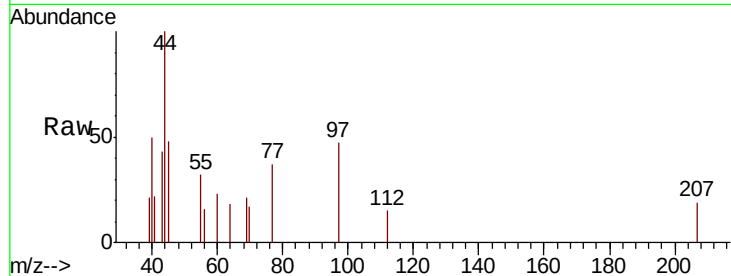
Tot Ion: 69 Resp: 190

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

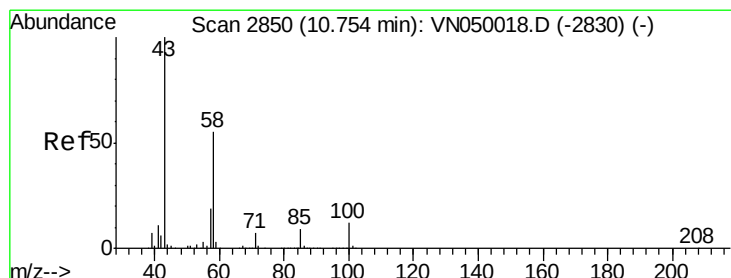
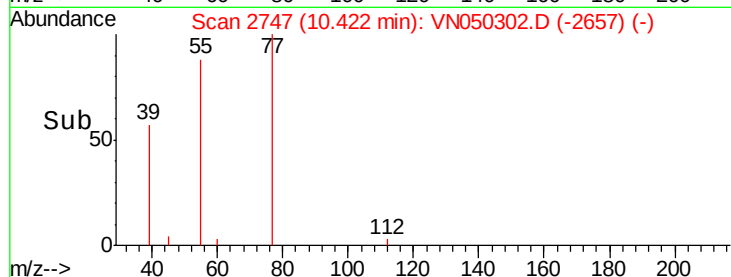
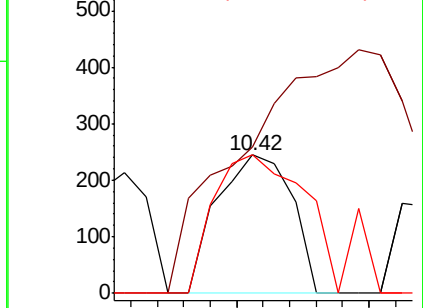
39 137.4 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 5.19 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050302.D

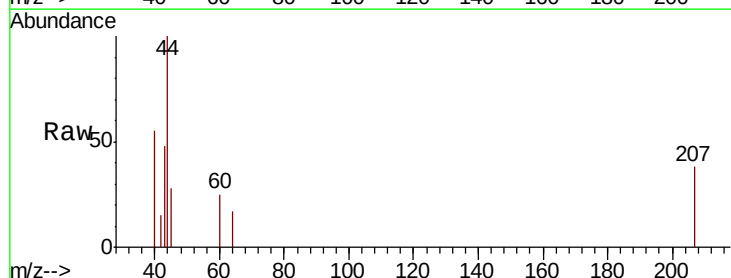
Acq: 3 Aug 2018 7:56

Tgt Ion: 43 Resp: 112

Ion Ratio Lower Upper

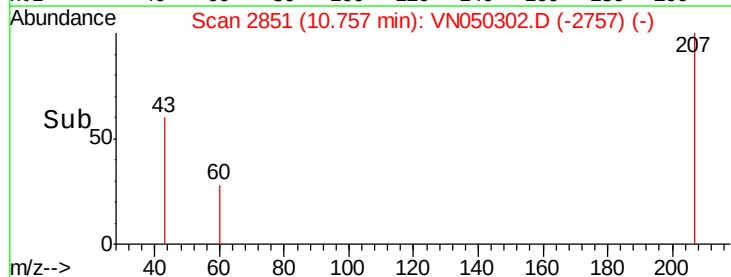
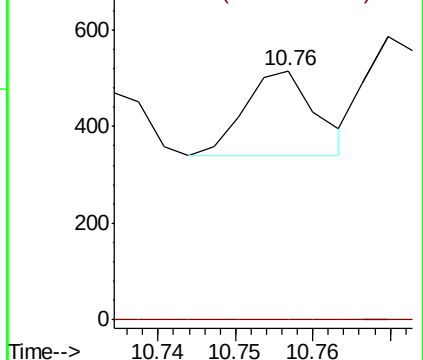
43 100

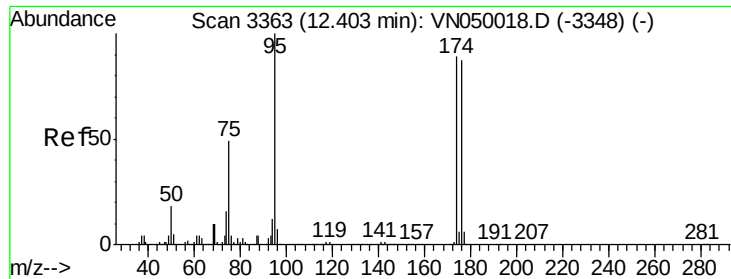
58 0.0 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

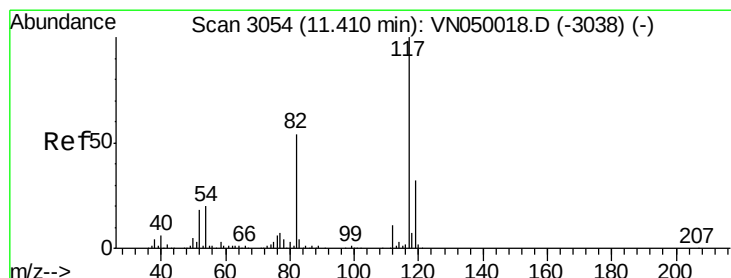
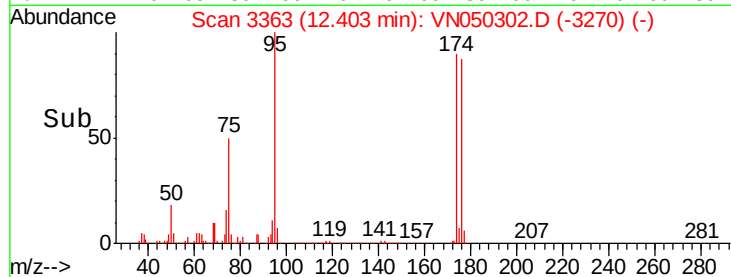
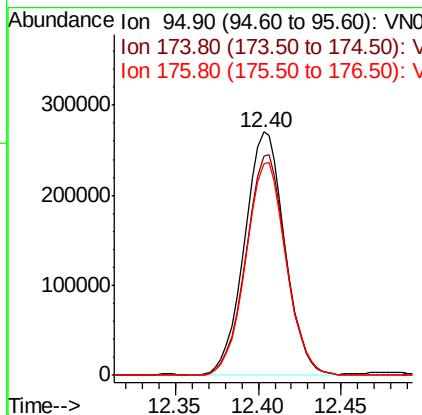
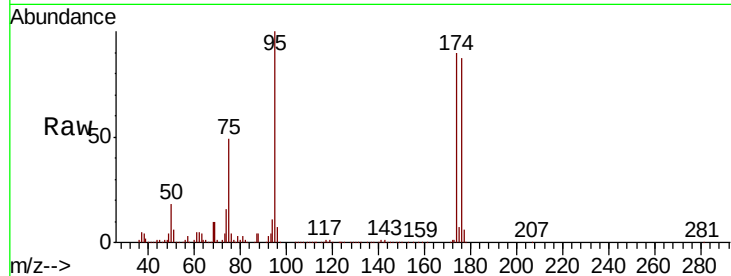




#62
 4-Bromofluorobenzene
 Concen: 39.24 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050302.D
 Acq: 3 Aug 2018 7:56

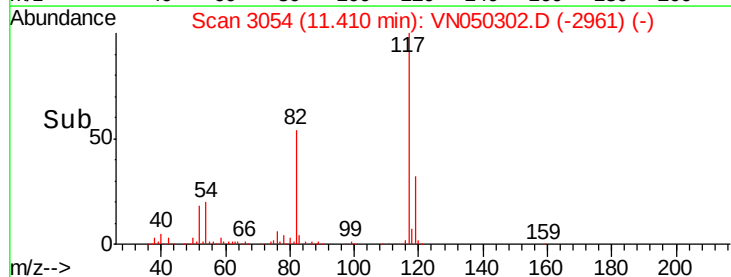
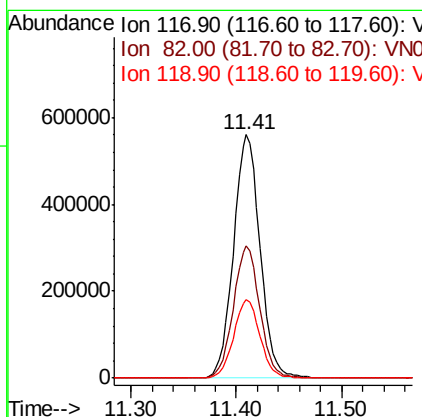
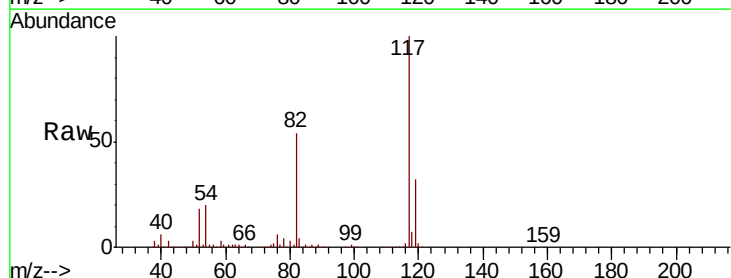
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-A20

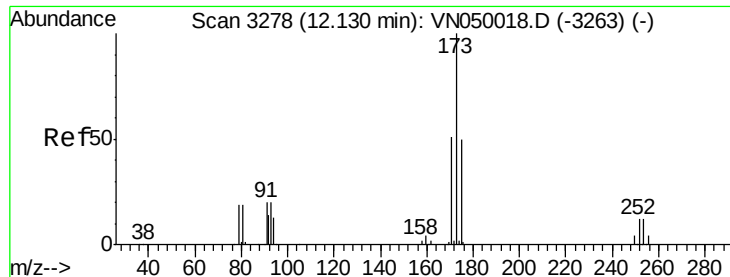
Tot Ion: 95 Resp: 453646
 Ion Ratio Lower Upper
 95 100
 174 91.2 0.0 178.2
 176 88.2 0.0 173.4



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.41 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VN050302.D
 Acq: 3 Aug 2018 7:56

Tgt Ion: 117 Resp: 972984
 Ion Ratio Lower Upper
 117 100
 82 54.2 43.7 65.5
 119 32.5 26.1 39.1





#71

Bromoform

Concen: 0.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

MW-A20

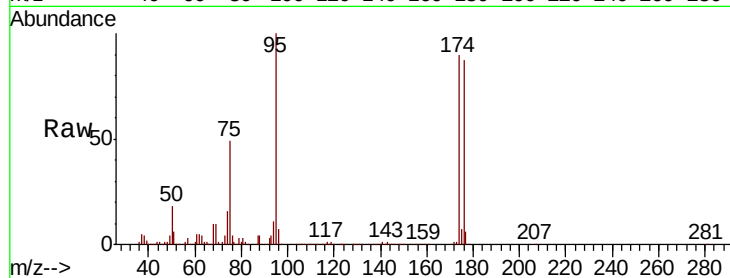
Tot Ion:173 Resp: 3729

Ion Ratio Lower Upper

173 100

175 729.3 24.1 72.2#

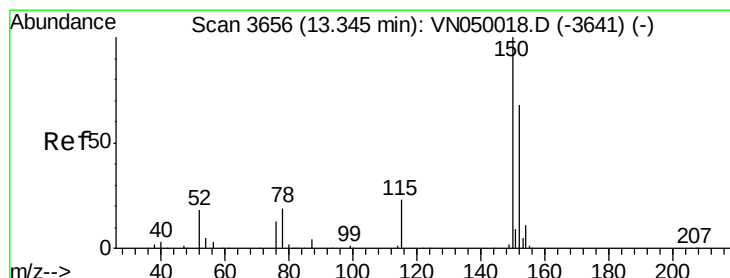
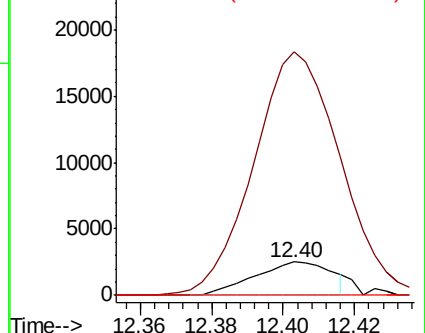
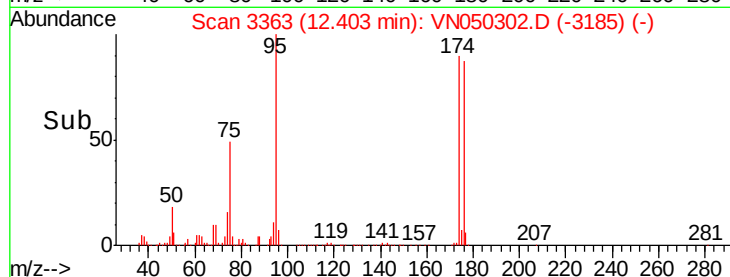
254 0.0 0.2 0.2#



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: VN050302.D

Acq: 3 Aug 2018 7:56

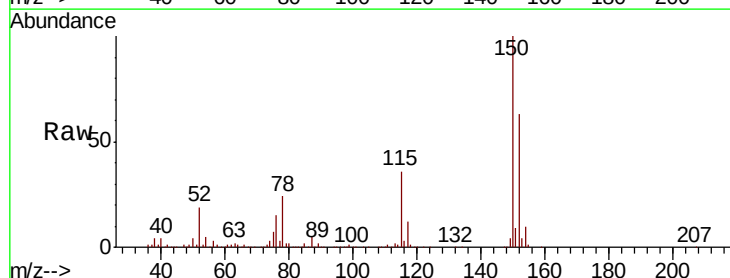
Tgt Ion:152 Resp: 395010

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.3

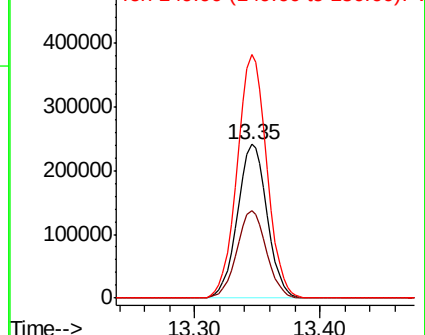
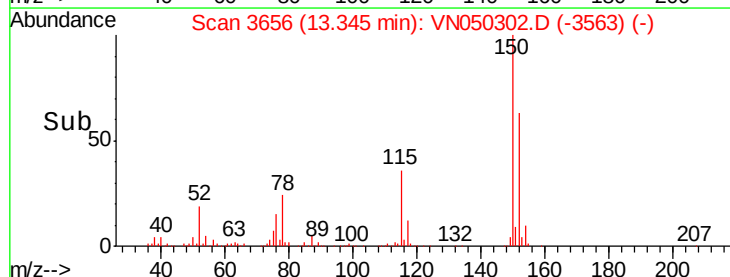
150 157.9 0.0 348.6

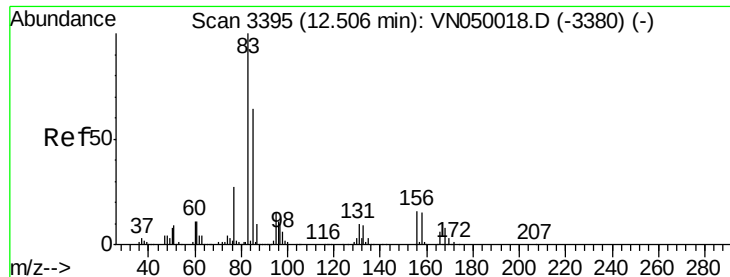


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.47 min Scan# 3383

Delta R.T. -0.04 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

MW-A20

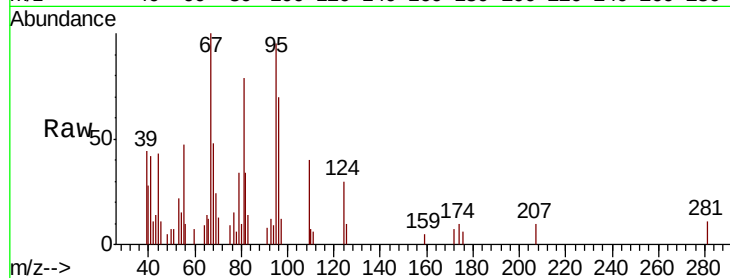
Tot Ion: 83 Resp: 608

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

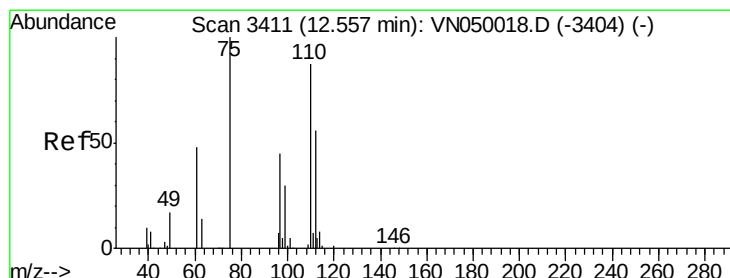
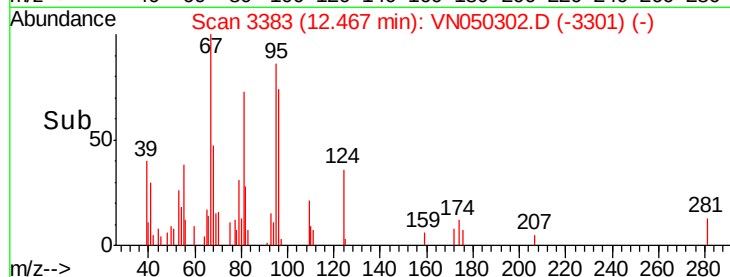
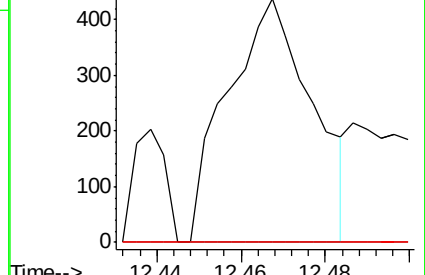
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 30.33 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050302.D

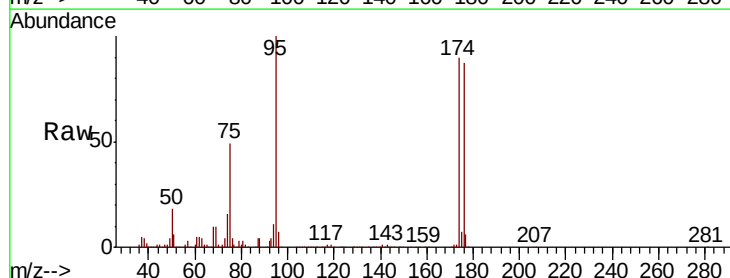
Acq: 3 Aug 2018 7:56

Tgt Ion: 75 Resp: 222670

Ion Ratio Lower Upper

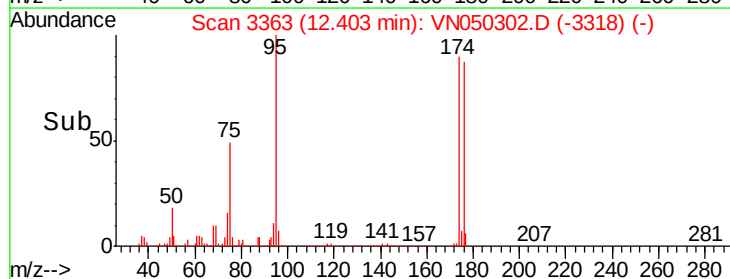
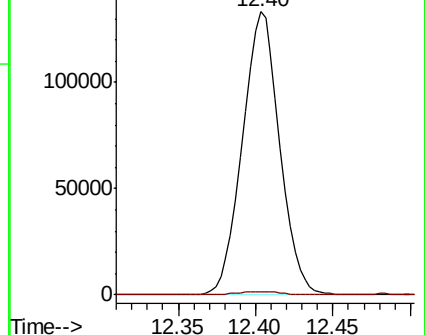
75 100

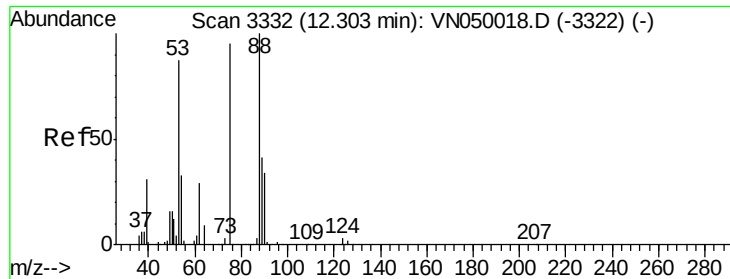
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

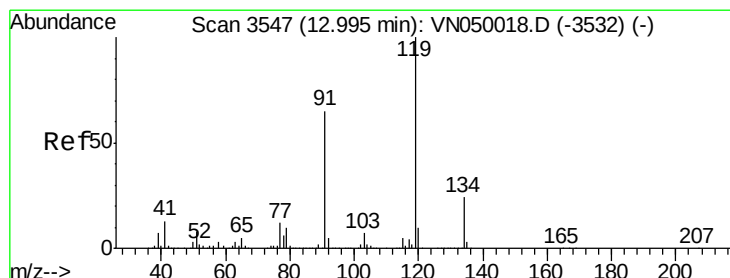
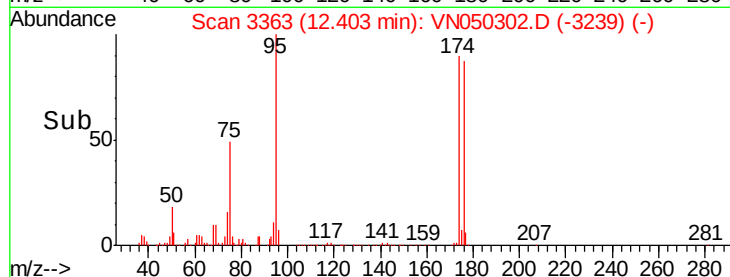
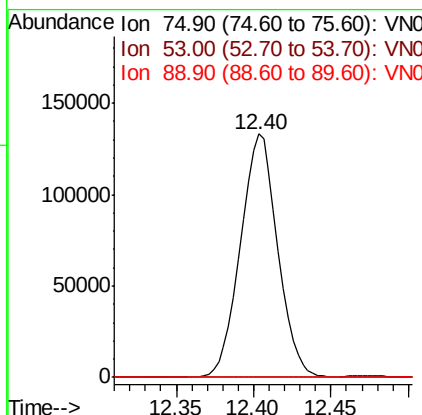
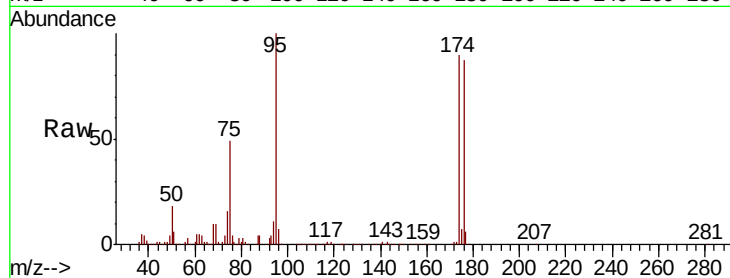




#81
trans-1,4-Dichloro-2-butene
Concen: 96.21 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050302.D
Acq: 3 Aug 2018 7:56

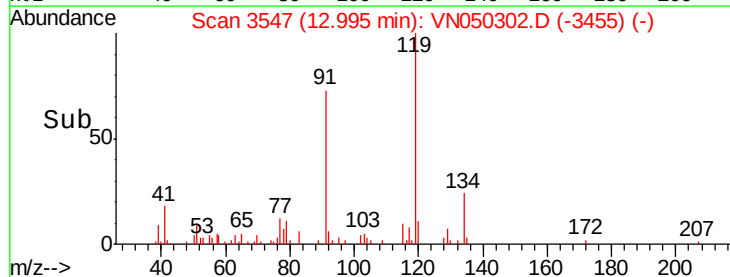
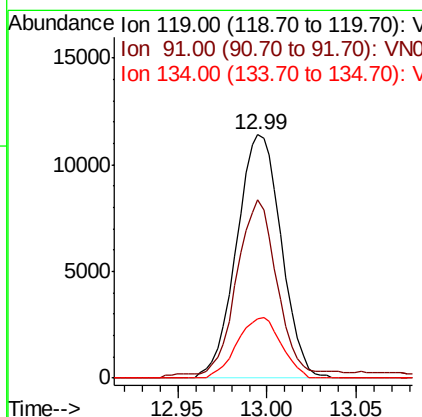
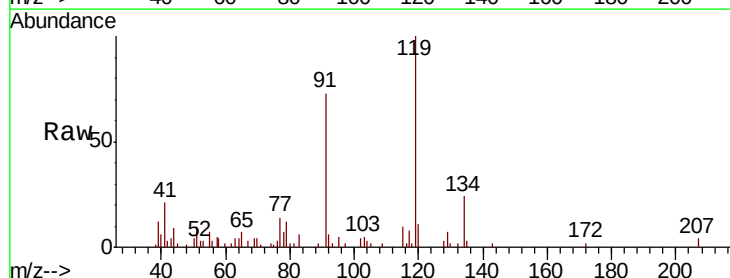
Instrument :
MSVOA_N
ClientSampleId :
MW-A20

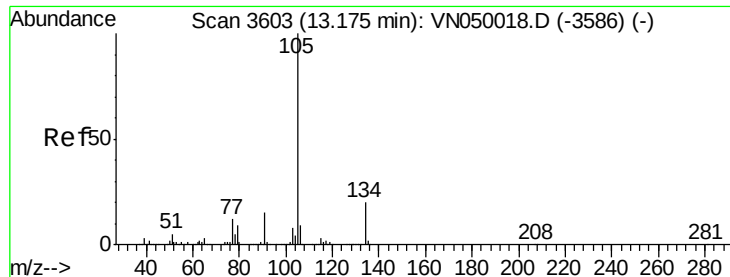
Tot Ion: 75 Resp: 222670
Ion Ratio Lower Upper
75 100
53 0.4 73.5 110.3#
89 0.0 36.0 54.0#



#83
tert-Butylbenzene
Concen: 0.95 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN050302.D
Acq: 3 Aug 2018 7:56

Tgt Ion: 119 Resp: 19946
Ion Ratio Lower Upper
119 100
91 68.2 32.1 96.3
134 24.5 13.2 39.5





#85

sec-Butylbenzene

Concen: 0.23 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampled :

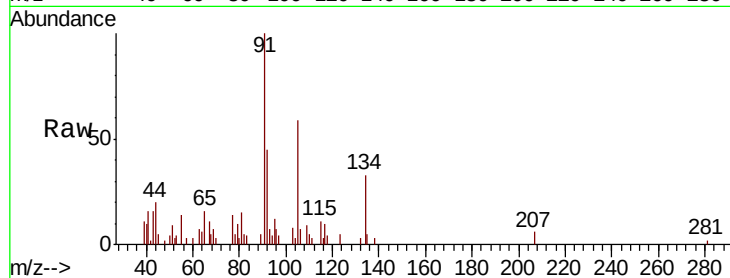
MW-A20

Tot Ion:105 Resp: 6450

Ion Ratio Lower Upper

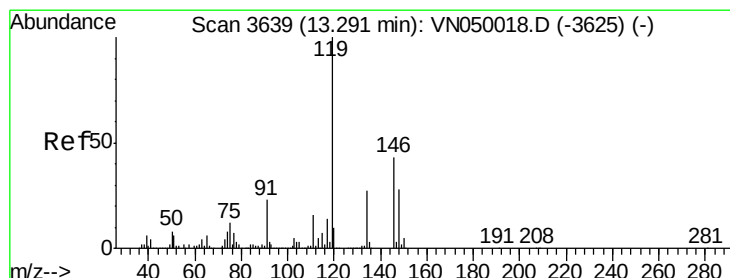
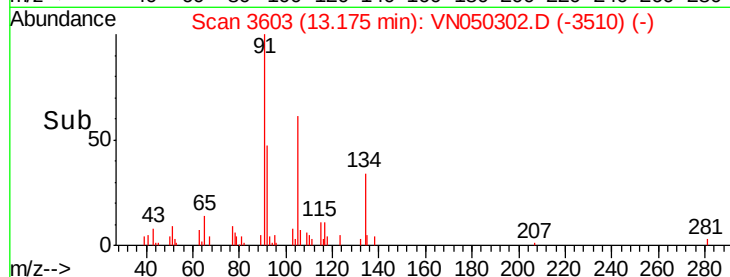
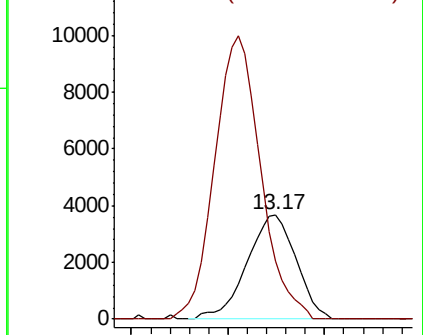
105 100

134 255.4 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.96 ug/l

RT: 13.44 min Scan# 3687

Delta R.T. 0.15 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

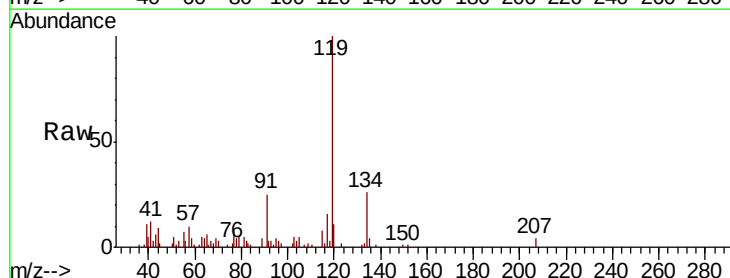
Tgt Ion:119 Resp: 22662

Ion Ratio Lower Upper

119 100

134 27.0 13.3 39.8

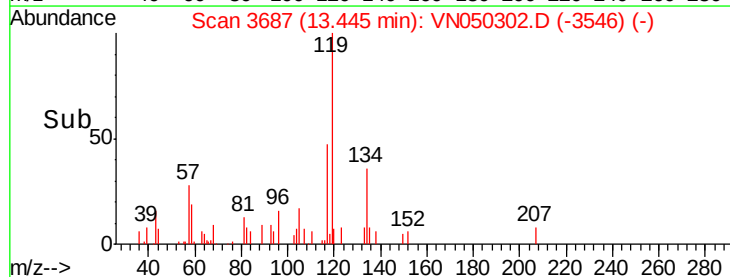
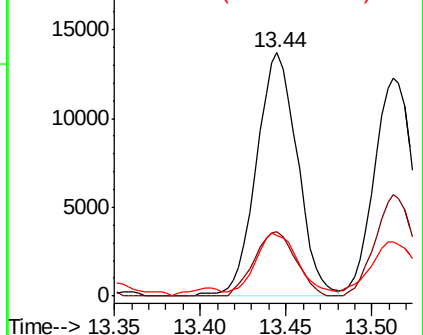
91 23.1 11.4 34.2

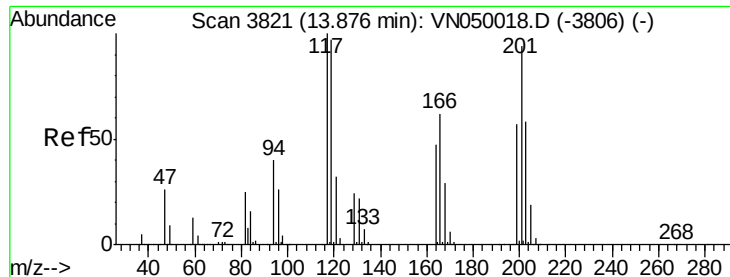


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: 0.35 ug/l

RT: 13.88 min Scan# 3822

Delta R.T. 0.00 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

Instrument :

MSVOA_N

ClientSampleId :

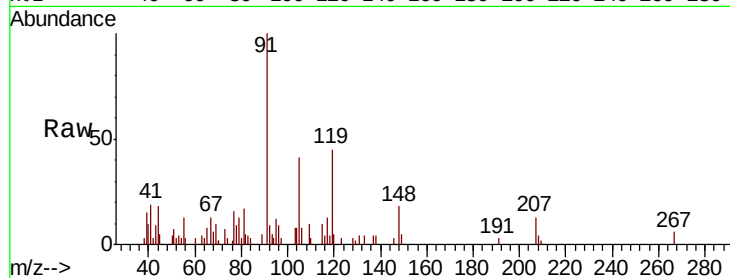
MW-A20

Tot Ion:117 Resp: 1846

Ion Ratio Lower Upper

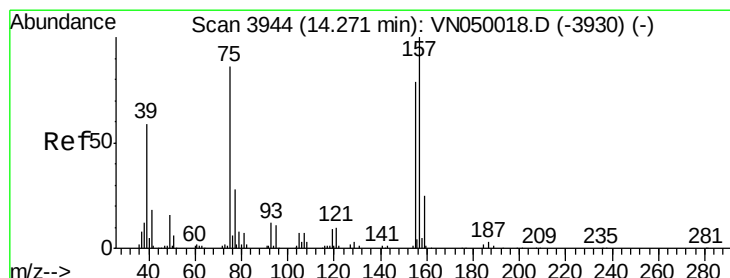
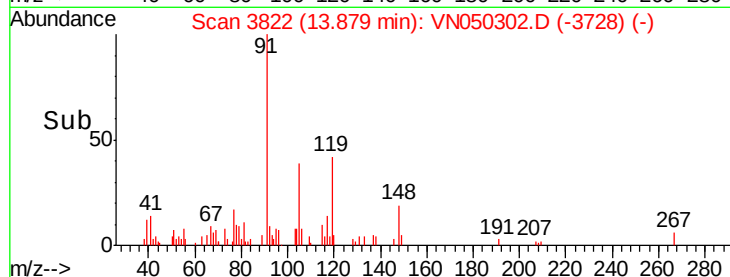
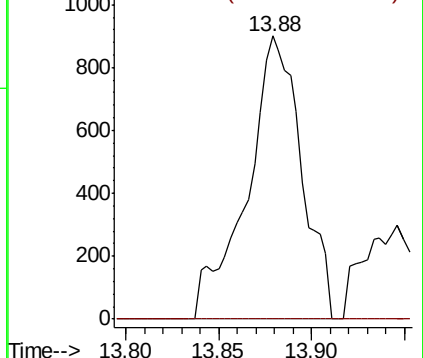
117 100

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: 14.22 min Scan# 3928

Delta R.T. -0.05 min

Lab File: VN050302.D

Acq: 3 Aug 2018 7:56

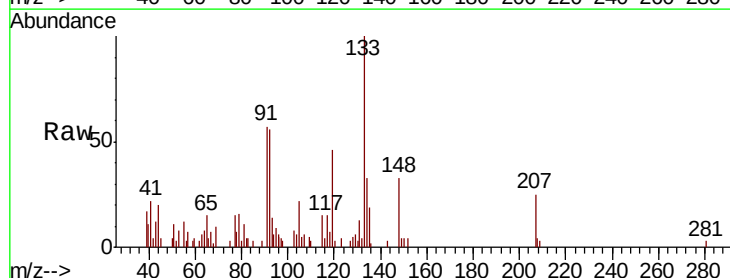
Tgt Ion: 75 Resp: 196

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

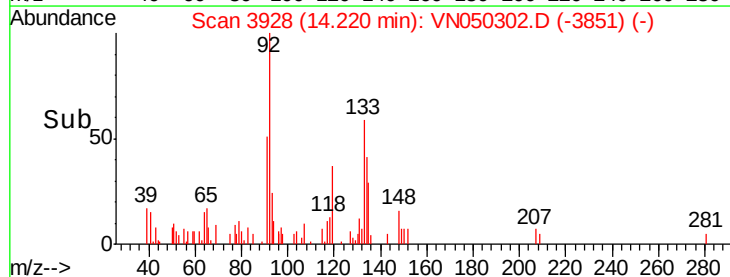
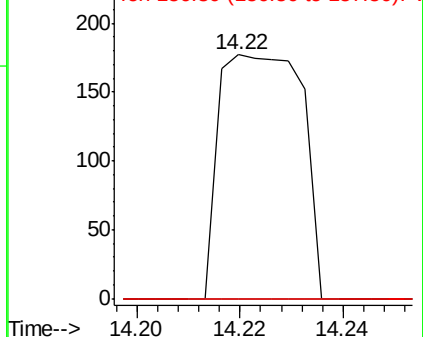
157 0.0 57.2 171.6#

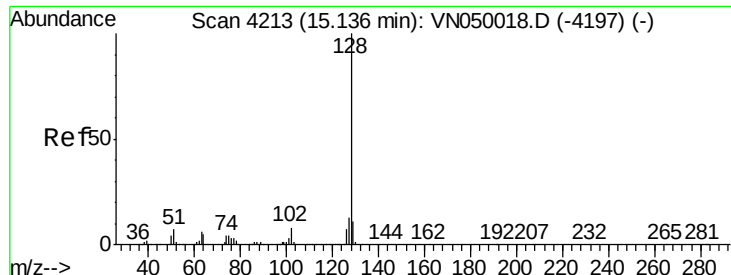


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 4.64 ug/l
RT: 15.10 min Scan# 4201
Delta R.T. -0.04 min
Lab File: VN050302.D
Acq: 3 Aug 2018 7:56

Instrument :
MSVOA_N
ClientSampleId :
MW-A20

Tot Ion	Ratio	Lower	Upper
128	100		
127	26.8	10.4	15.6#
129	76.0	8.8	13.2#

