

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050267.D
 Acq On : 2 Aug 2018 16:34
 Operator : MD\SY
 Sample : PB111674ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#05

Quant Time: Aug 03 01:14:30 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	638135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1082816	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	906664	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	328276	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	464581	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
35) Dibromofluoromethane	7.59	113	410210	46.40	ug/l	0.00
Spiked Amount			Recovery	=	92.80%	
50) Toluene-d8	10.09	98	1457646	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
62) 4-Bromofluorobenzene	12.40	95	395563	36.96	ug/l	0.00
Spiked Amount			Recovery	=	73.92%	

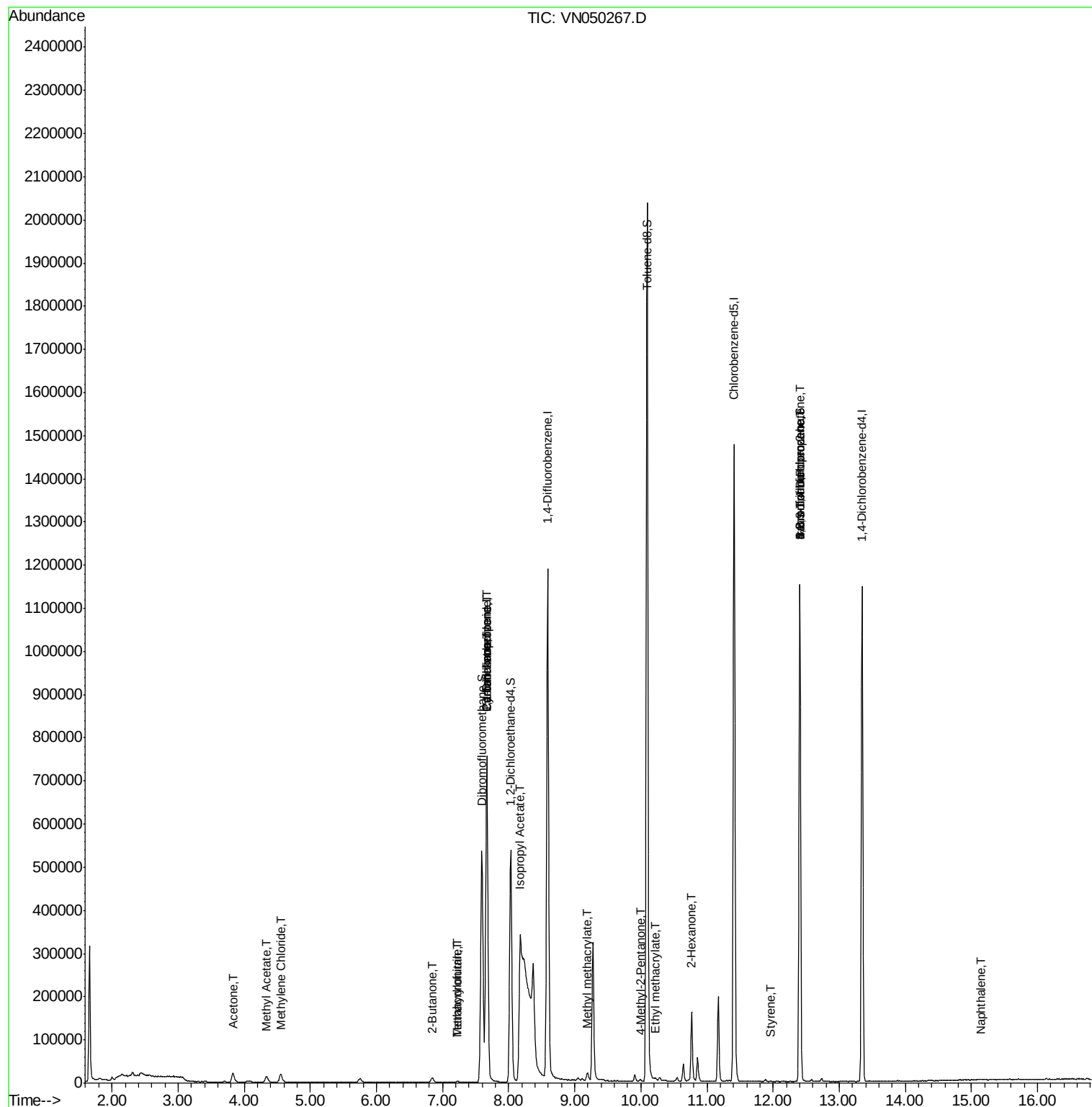
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	838	Below Cal		83
16) Acetone	3.83	43	38130	14.08	ug/l	99
18) Methyl Acetate	4.34	43	25754	1.58	ug/l	98
20) Methylene Chloride	4.55	84	14043	0.54	ug/l	97
25) 2-Butanone	6.86	43	6251	1.84	ug/l #	86
29) Tetrahydrofuran	7.22	42	1329	0.61	ug/l #	54
31) Cyclohexane	7.67	56	12454	0.95	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45688	3.75	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58792	4.54	ug/l #	17
41) Methacrylonitrile	7.22	41	1107	2.98	ug/l #	25
43) Isopropyl Acetate	8.17	43	470923	28.90	ug/l #	86
48) Methyl methacrylate	9.18	41	9813	1.34	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	3355	0.40	ug/l #	71
56) Ethyl methacrylate	10.23	69	3167	2.29	ug/l #	76
59) 2-Hexanone	10.77	43	22401	8.74	ug/l #	59
70) Styrene	11.96	104	425	0.94	ug/l #	49
71) Bromoform	12.41	173	2514	0.39	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	159	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190126	31.16	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190126	98.85	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	236	Below Cal	#	1
95) Naphthalene	15.14	128	1430	4.50	ug/l #	78

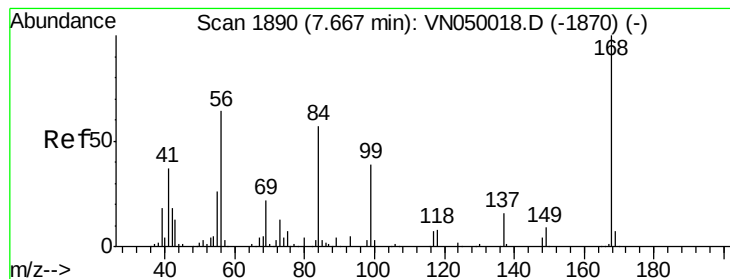
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

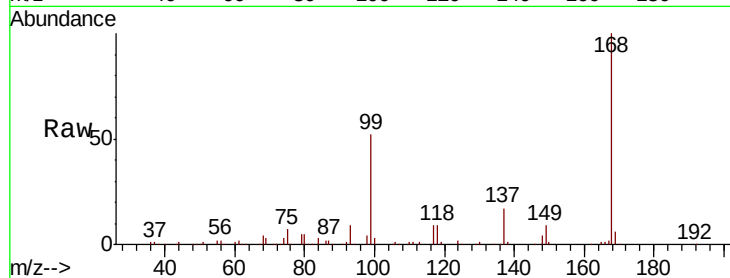
PB111674ZHE#05

Tot Ion:168 Resp: 638135

Ion Ratio Lower Upper

168 100

99 51.5 40.0 60.0



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

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

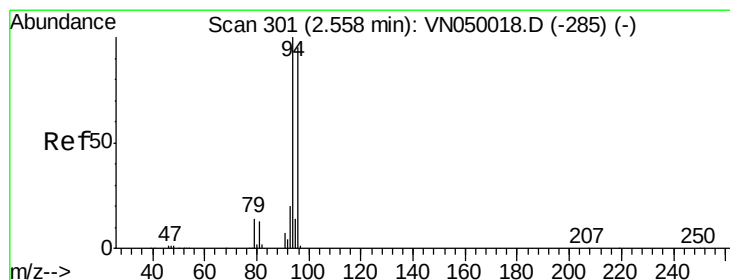
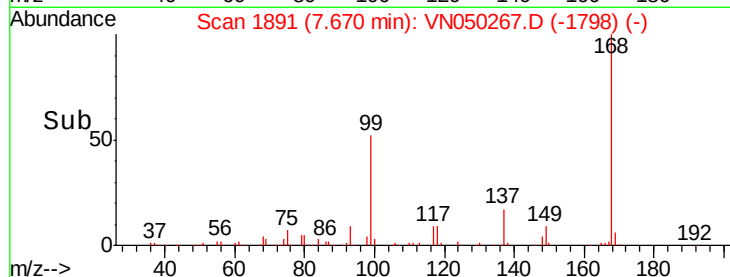
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.02 min

Lab File: VN050267.D

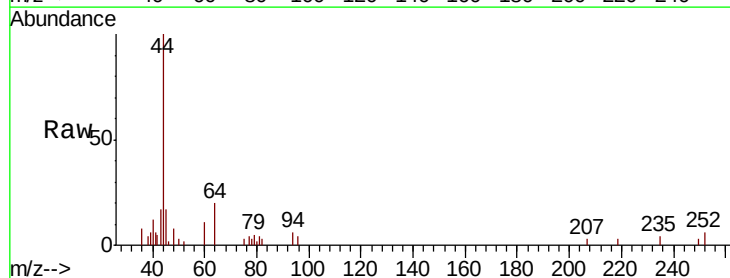
Acq: 2 Aug 2018 16:34

Tgt Ion: 94 Resp: 838

Ion Ratio Lower Upper

94 100

96 77.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050018.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN050018.D (-285) (-)

2.57

400

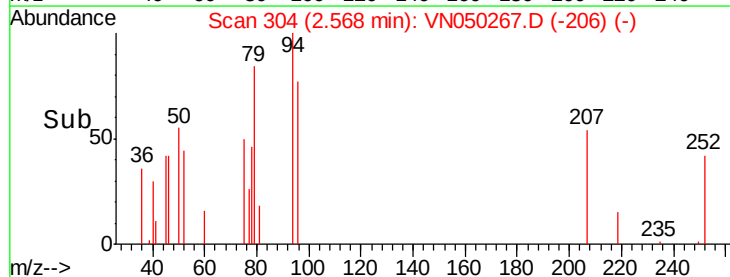
300

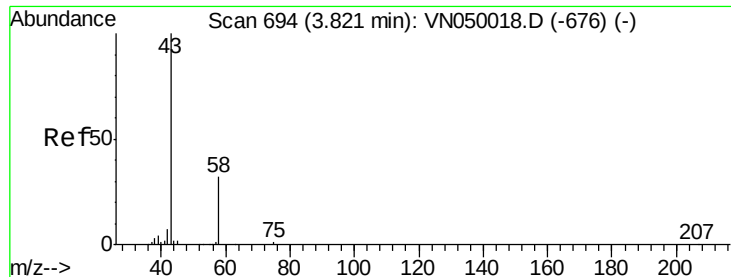
200

100

0

Time--> 2.50 2.55 2.60





#16

Acetone

Concen: 14.08 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

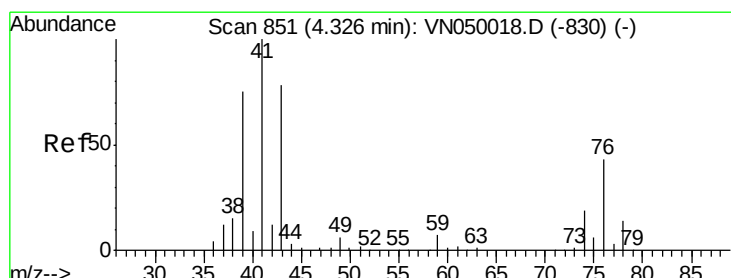
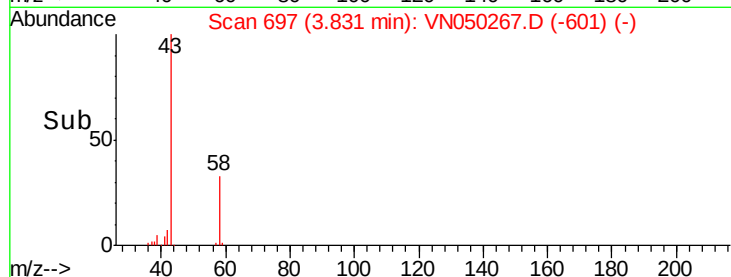
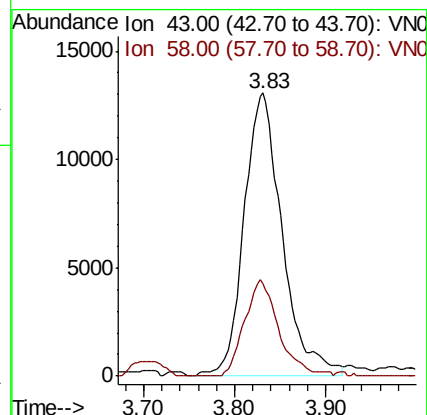
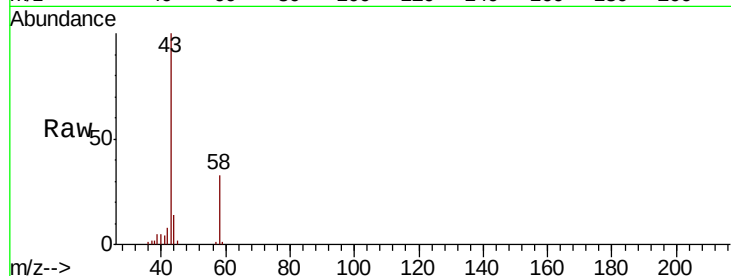
PB111674ZHE#05

Tot Ion: 43 Resp: 38130

Ion Ratio Lower Upper

43 100

58 32.7 25.8 38.8



#18

Methyl Acetate

Concen: 1.58 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050267.D

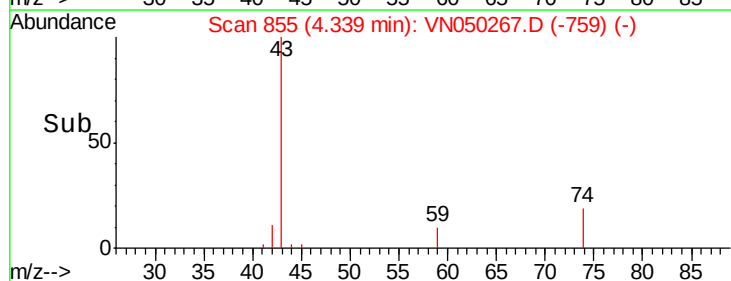
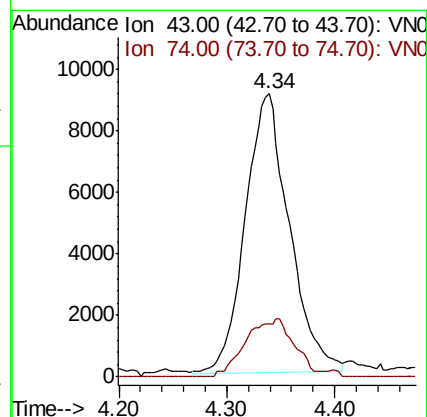
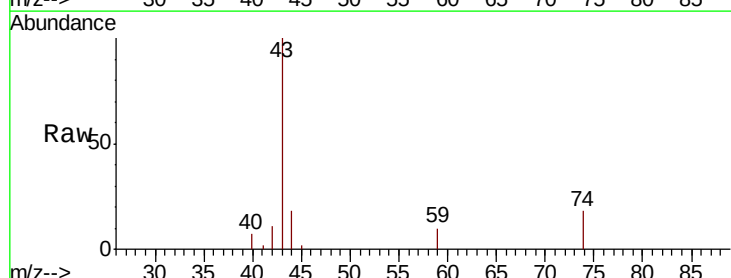
Acq: 2 Aug 2018 16:34

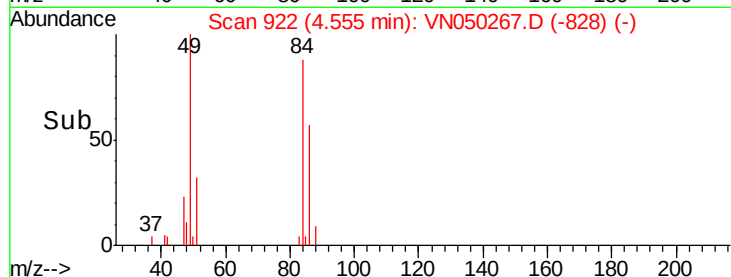
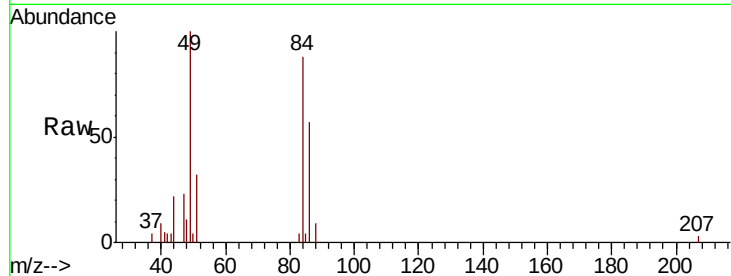
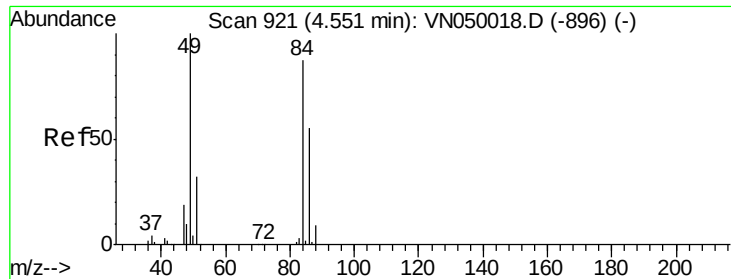
Tgt Ion: 43 Resp: 25754

Ion Ratio Lower Upper

43 100

74 23.0 19.2 28.8

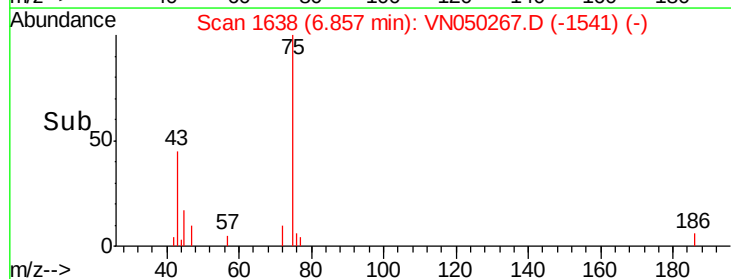
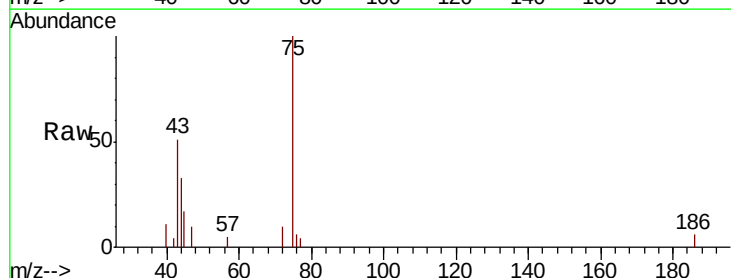
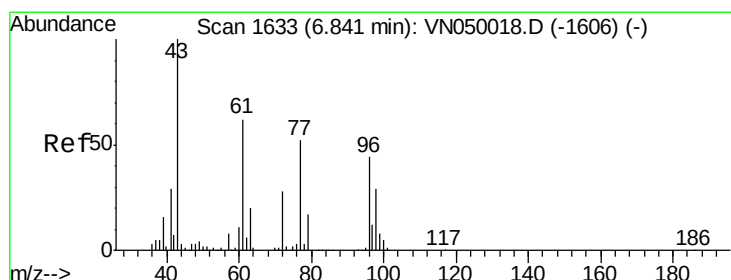
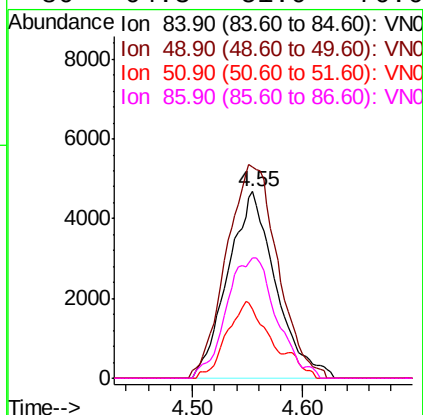




#20
Methylene Chloride
Concen: 0.54 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

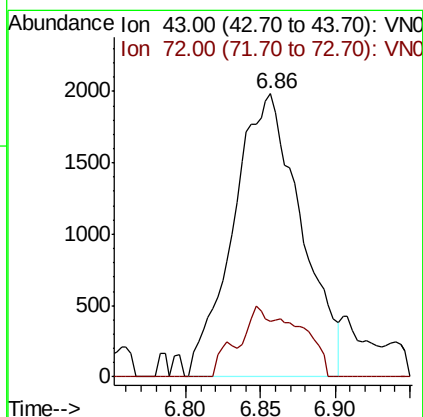
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#05

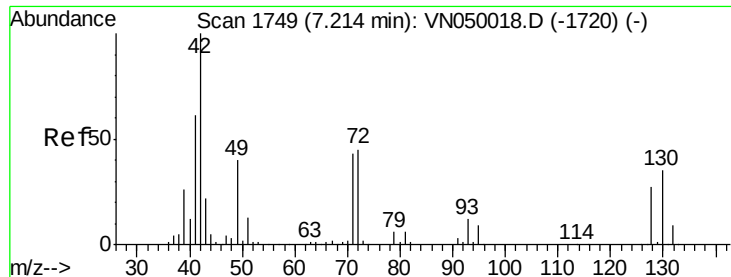
Tot Ion: 84 Resp: 14043
Ion Ratio Lower Upper
84 100
49 113.4 94.8 142.2
51 36.8 28.3 42.5
86 64.3 51.0 76.6



#25
2-Butanone
Concen: 1.84 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

Tgt Ion: 43 Resp: 6251
Ion Ratio Lower Upper
43 100
72 19.9 21.5 32.3#





#29

Tetrahydrofuran

Concen: 0.61 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

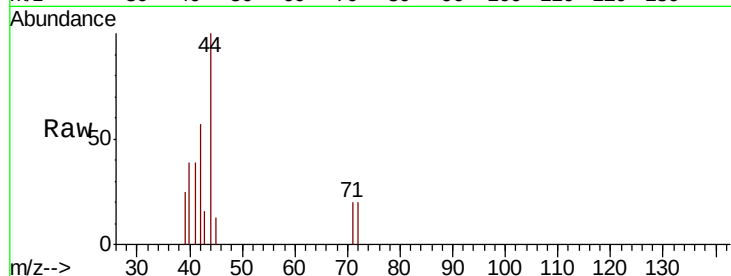
Tot Ion: 42 Resp: 1329

Ion Ratio Lower Upper

42 100

72 22.0 35.9 53.9#

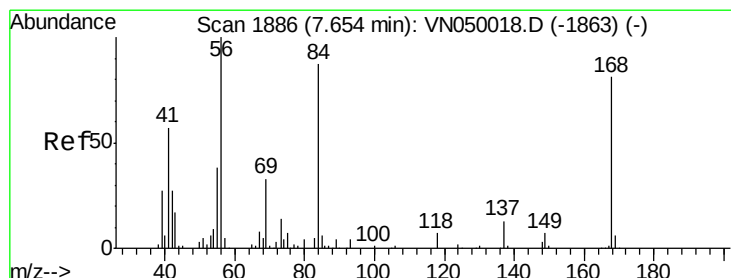
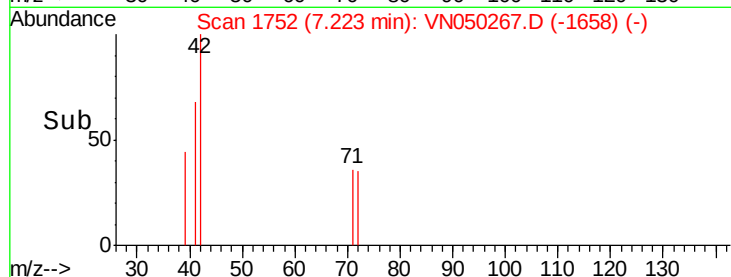
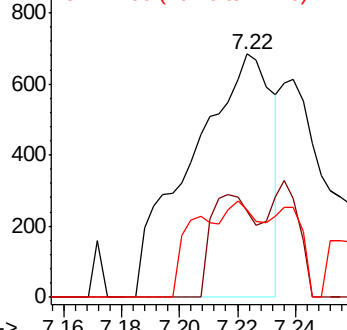
71 5.6 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.95 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

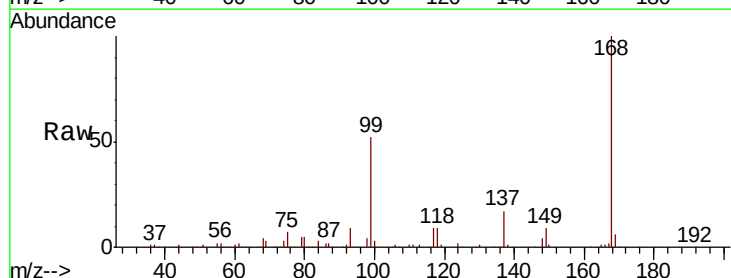
Tgt Ion: 56 Resp: 12454

Ion Ratio Lower Upper

56 100

69 164.5 26.2 39.4#

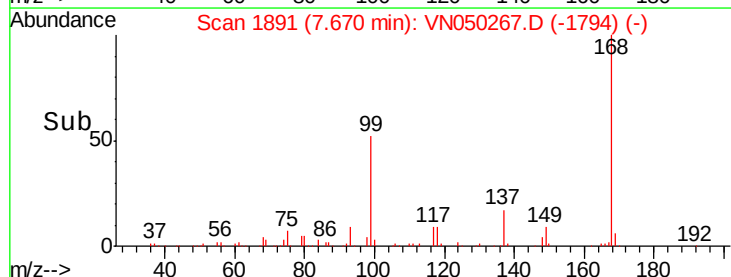
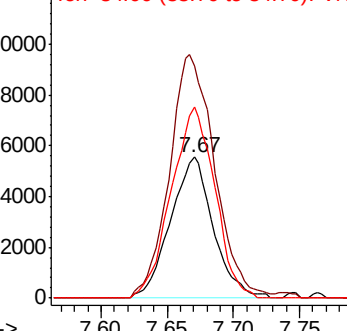
84 135.9 67.4 101.0#

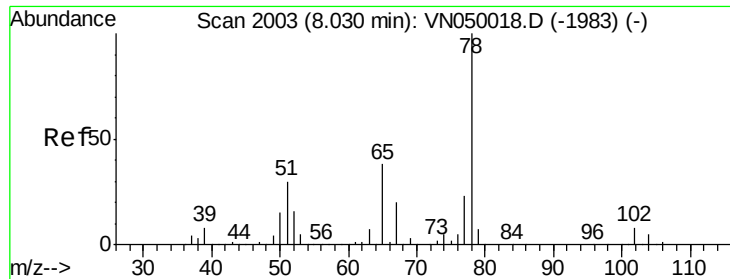


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.18 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

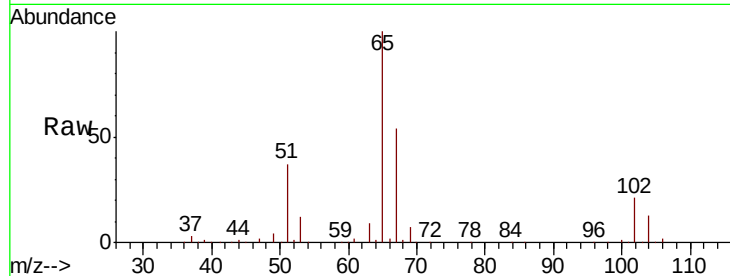
PB111674ZHE#05

Tot Ion: 65 Resp: 464581

Ion Ratio Lower Upper

65 100

67 53.7 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) (-)

8.03

200000

150000

100000

50000

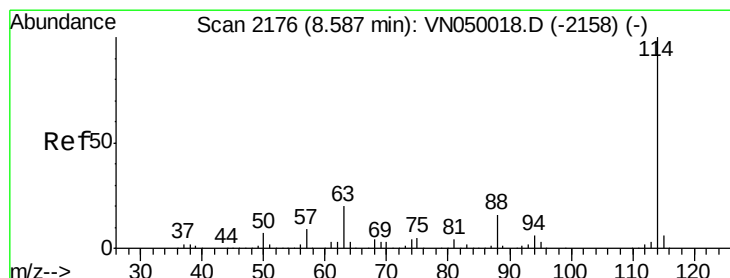
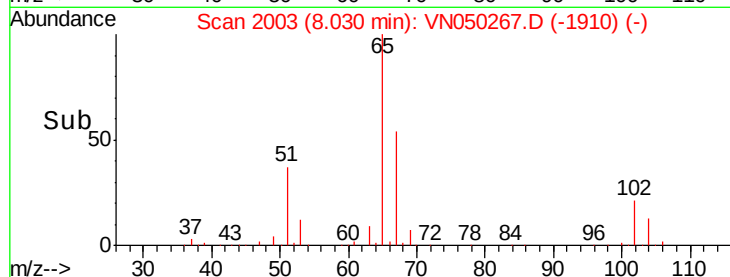
0

7.90

8.00

8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

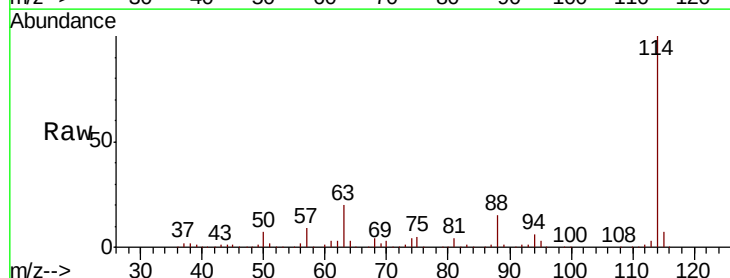
Tgt Ion: 114 Resp: 1082816

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

88 15.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN050018.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050018.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050018.D (-2158) (-)

8.59

600000

400000

200000

0

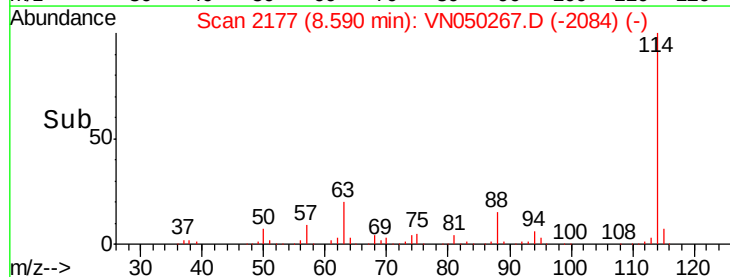
8.50

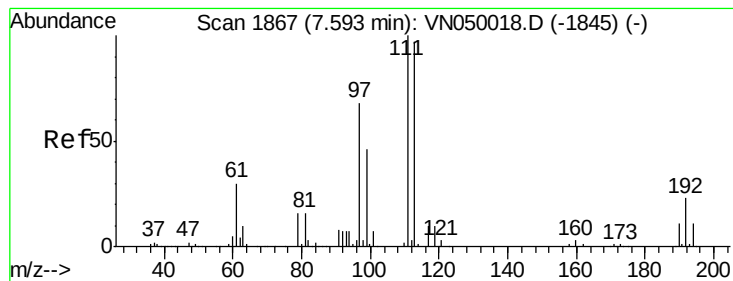
8.60

8.70

8.80

Time-->





#35

Dibromofluoromethane

Concen: 46.40 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

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PB111674ZHE#05

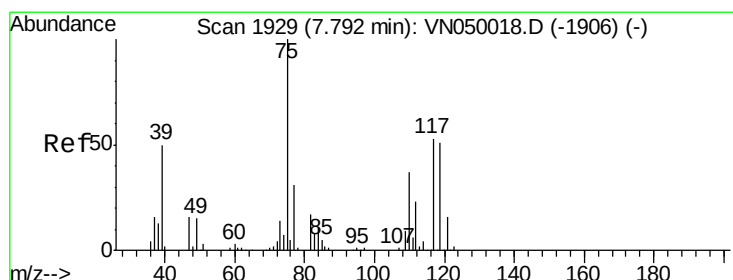
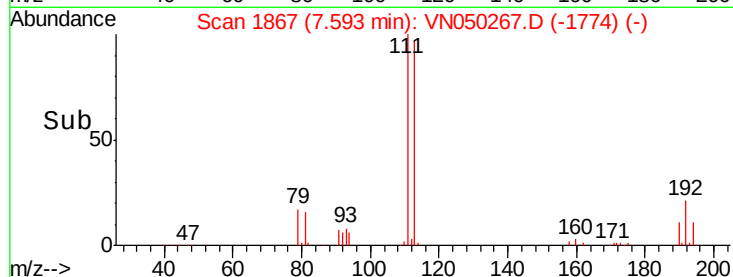
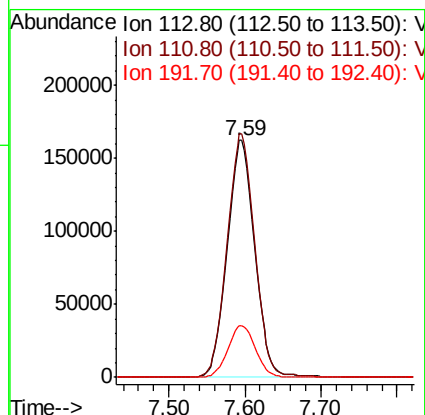
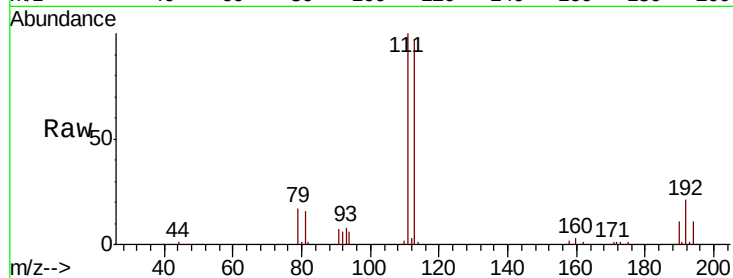
Tot Ion:113 Resp: 410210

Ion Ratio Lower Upper

113 100

111 102.9 80.7 121.1

192 21.8 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.75 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.13 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

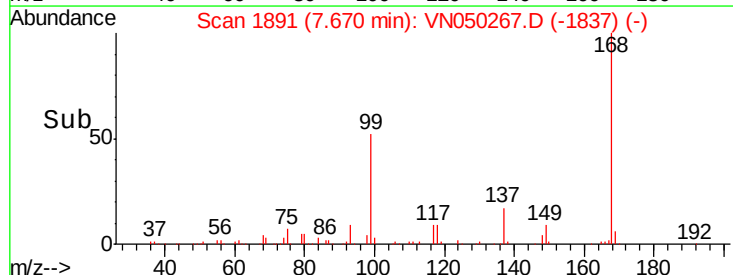
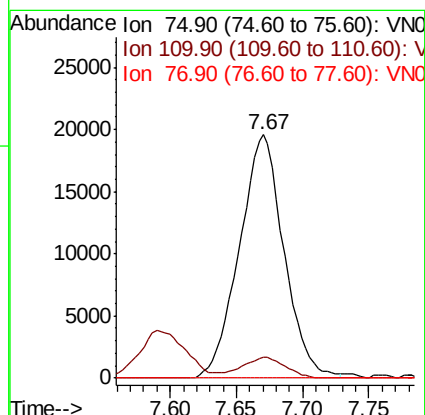
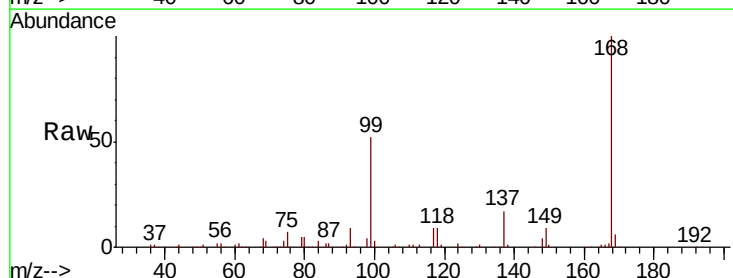
Tgt Ion: 75 Resp: 45688

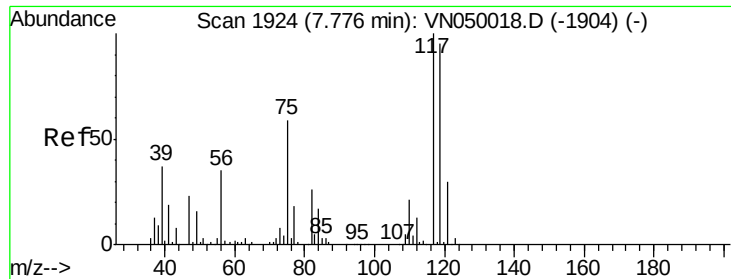
Ion Ratio Lower Upper

75 100

110 8.0 18.4 55.2#

77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.54 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

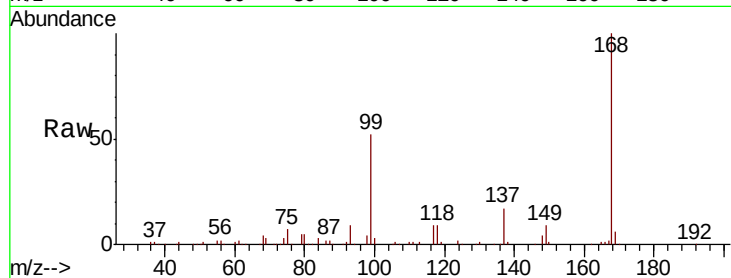
Tot Ion:117 Resp: 58792

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

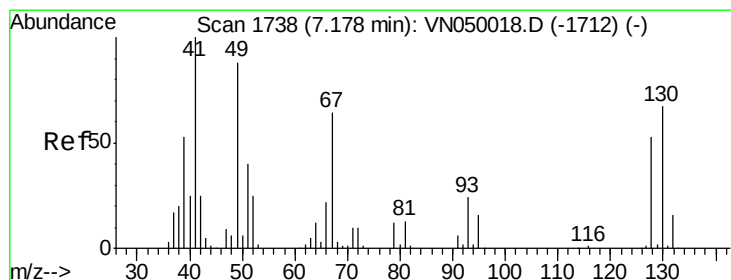
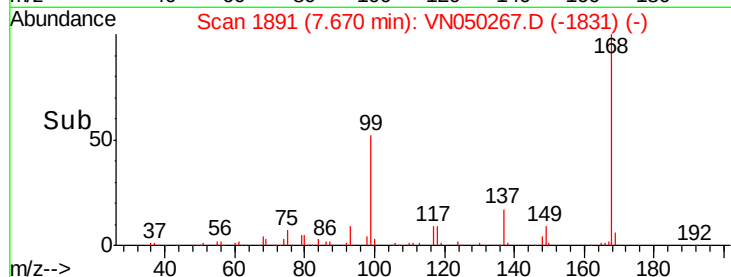
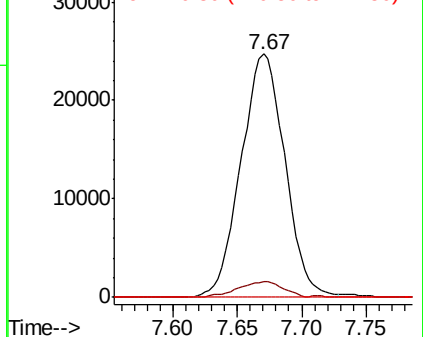
121 0.0 23.9 35.9#



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: 2.98 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.05 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Tgt Ion: 41 Resp: 1107

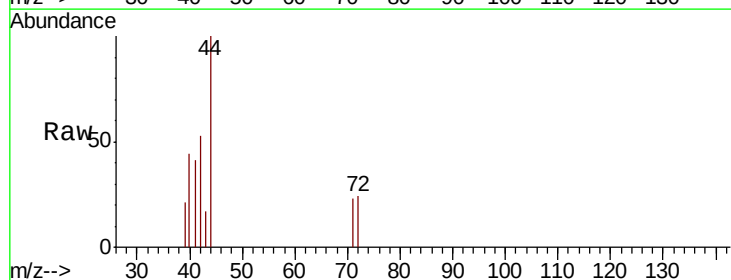
Ion Ratio Lower Upper

41 100

39 37.6 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

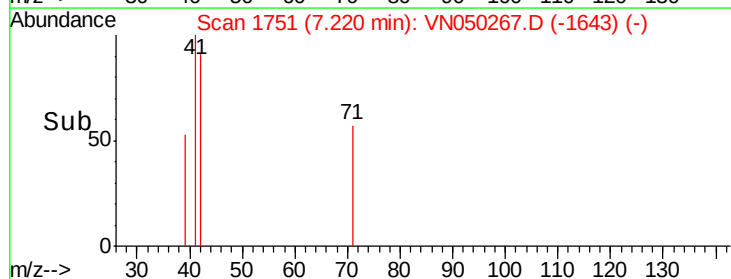
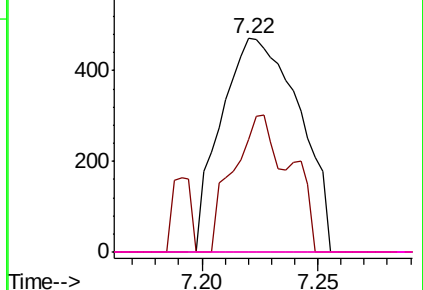


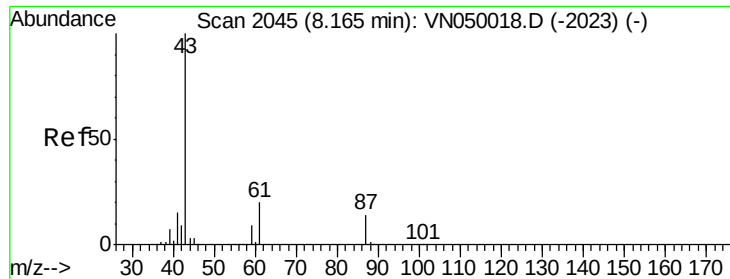
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



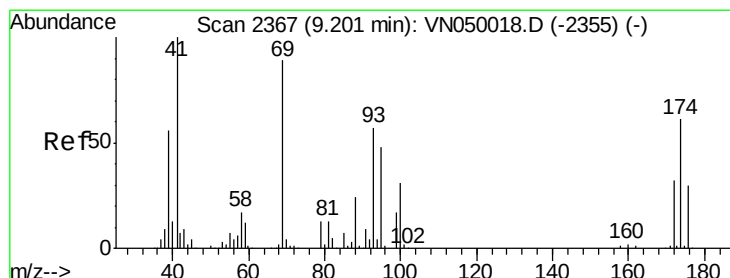
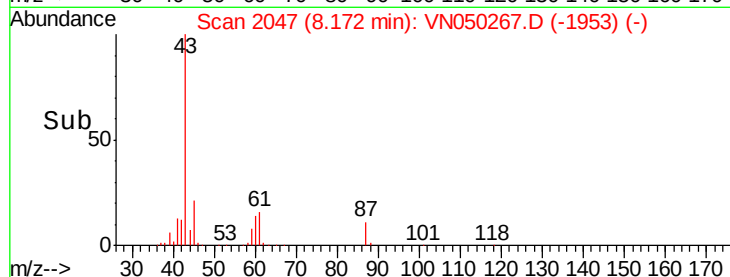
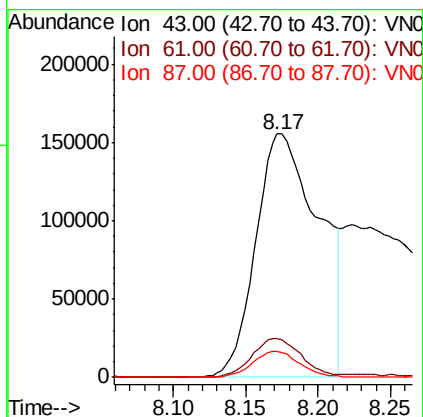
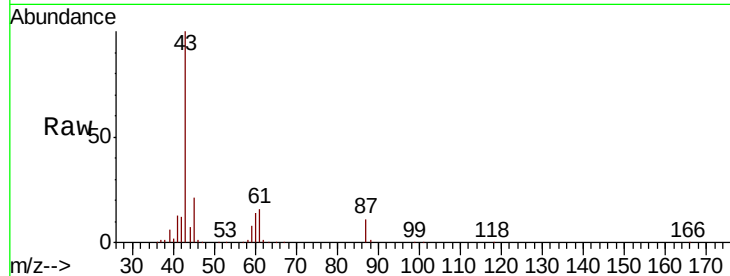


#43

Isopropyl Acetate
 Concen: 28.90 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN050267.D
 Acq: 2 Aug 2018 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#05

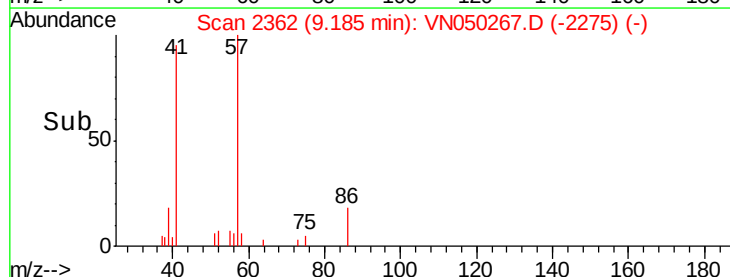
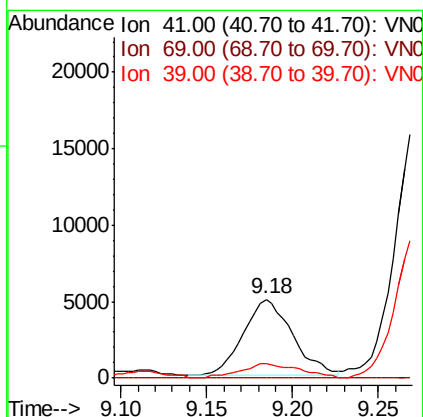
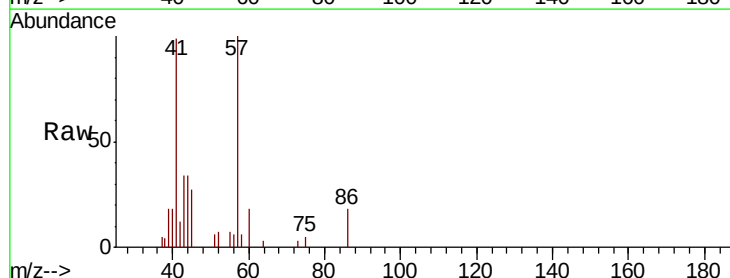
Tot Ion: 43 Resp: 470923
 Ion Ratio Lower Upper
 43 100
 61 12.7 15.8 23.6#
 87 8.0 10.3 15.5#

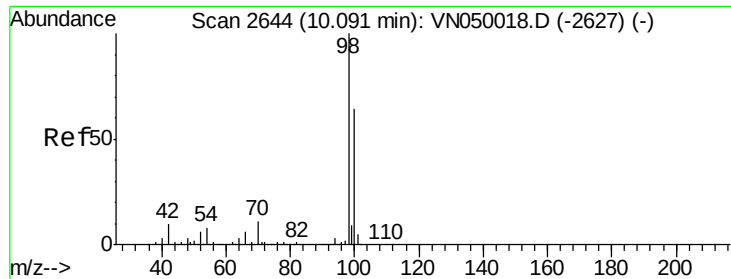


#48

Methyl methacrylate
 Concen: 1.34 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050267.D
 Acq: 2 Aug 2018 16:34

Tgt Ion: 41 Resp: 9813
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 22.5 43.9 65.9#

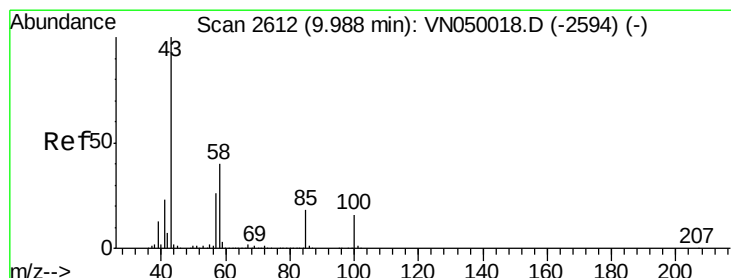
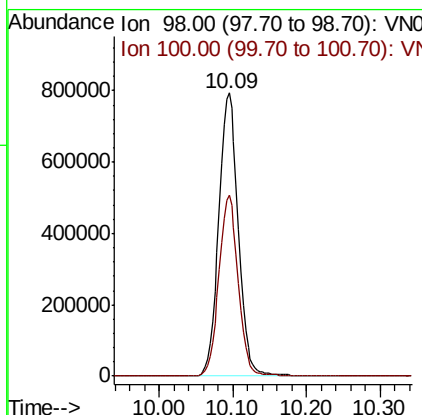
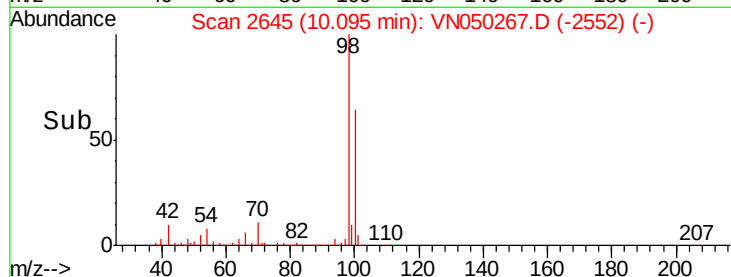
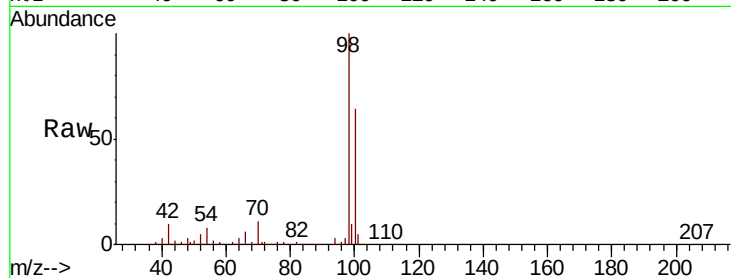




#50
Toluene-d8
Concen: 44.85 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

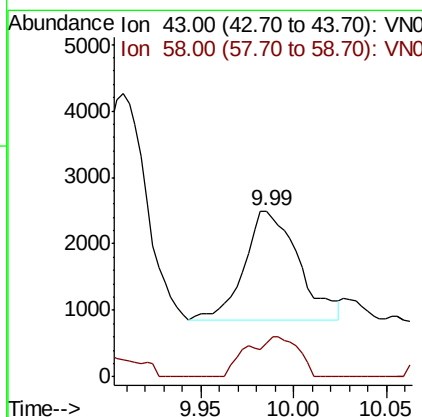
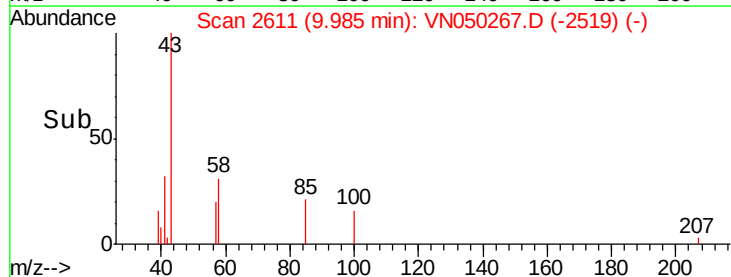
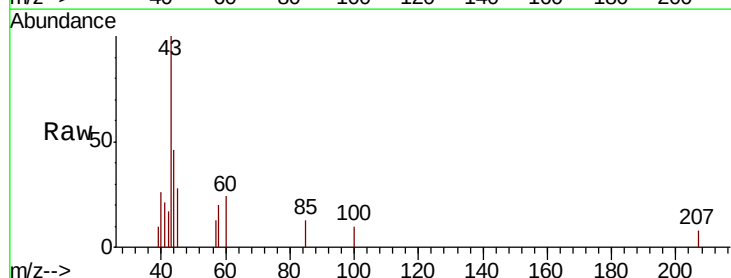
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#05

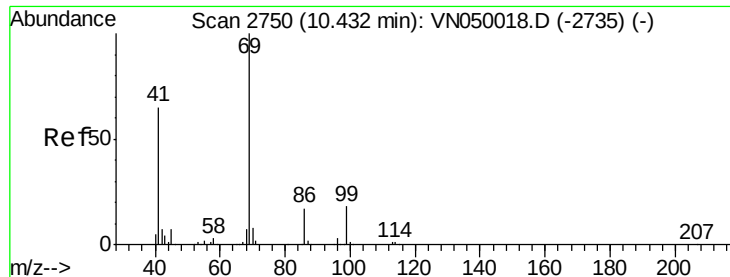
Tot Ion: 98 Resp: 1457646
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.40 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

Tgt Ion: 43 Resp: 3355
Ion Ratio Lower Upper
43 100
58 22.1 31.9 47.9#





#56

Ethyl methacrylate

Concen: 2.29 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

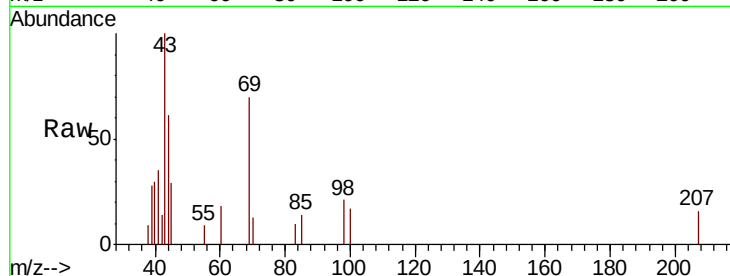
Tot Ion: 69 Resp: 3167

Ion Ratio Lower Upper

69 100

41 48.4 51.0 76.4#

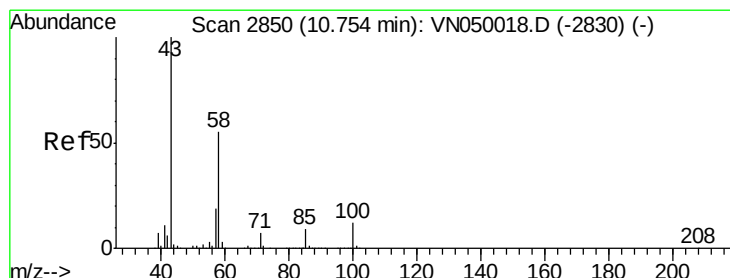
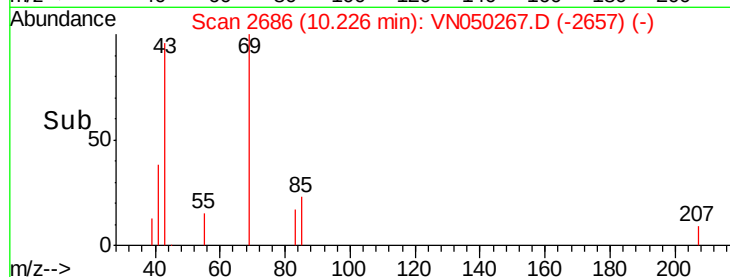
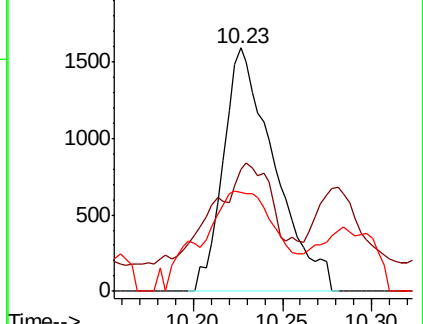
39 51.8 26.6 40.0#



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: 8.74 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050267.D

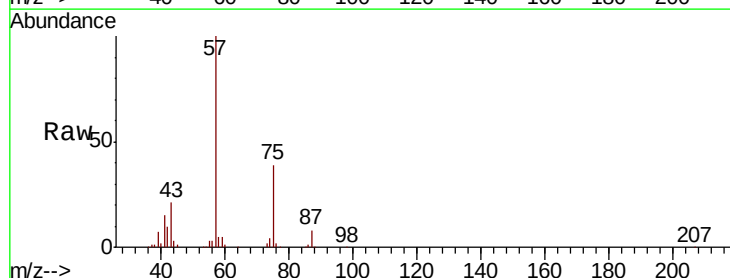
Acq: 2 Aug 2018 16:34

Tgt Ion: 43 Resp: 22401

Ion Ratio Lower Upper

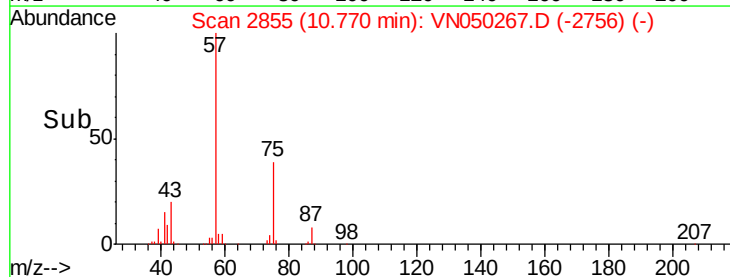
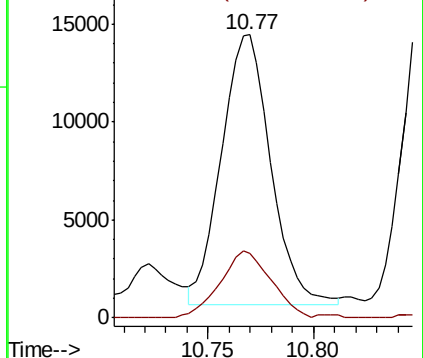
43 100

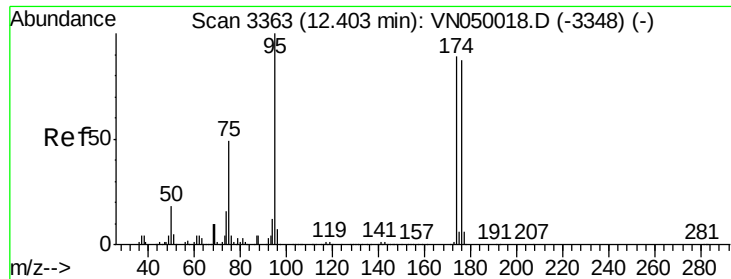
58 25.6 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

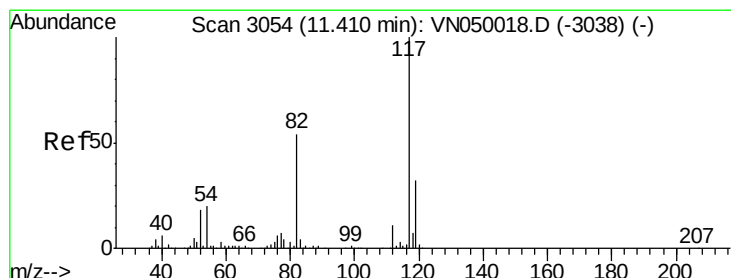
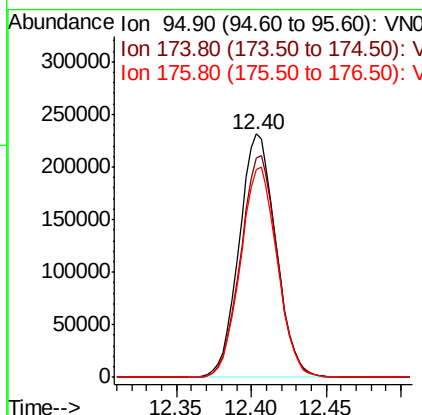
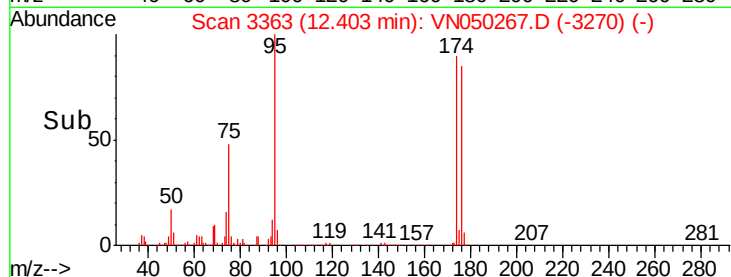
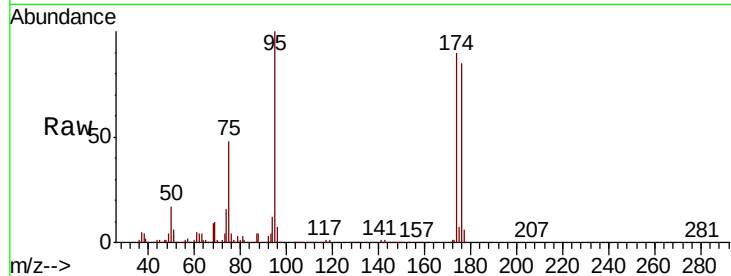




#62
4-Bromofluorobenzene
Concen: 36.96 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

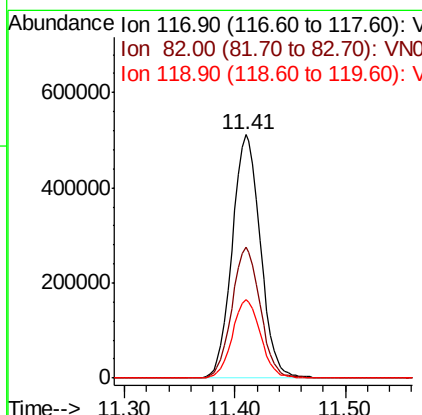
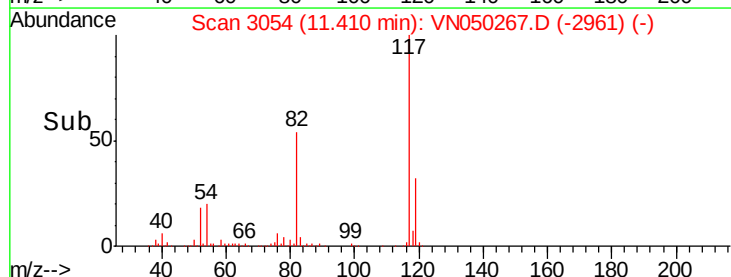
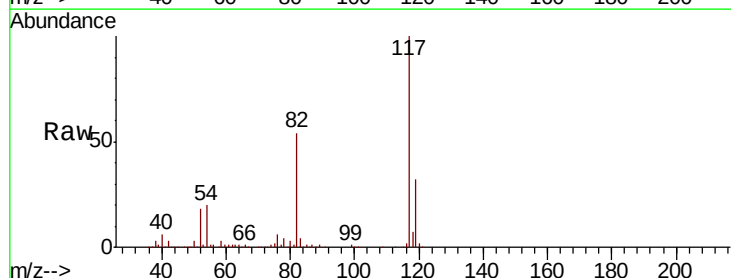
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#05

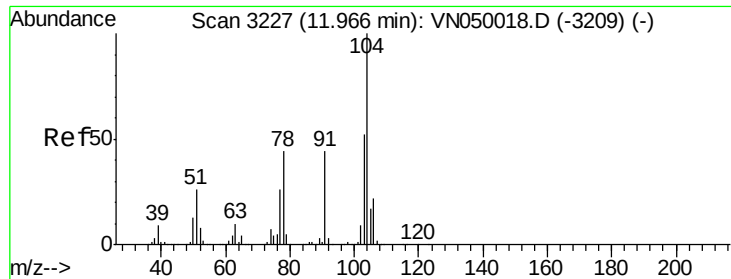
Tot Ion	95	Resp	395563
Ion Ratio	Lower	Upper	
95	100		
174	91.0	0.0	178.2
176	86.4	0.0	173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050267.D
Acq: 2 Aug 2018 16:34

Tgt Ion	117	Resp	906664
Ion Ratio	Lower	Upper	
117	100		
82	53.7	43.7	65.5
119	32.0	26.1	39.1





#70

Stvrene

Concen: 0.94 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

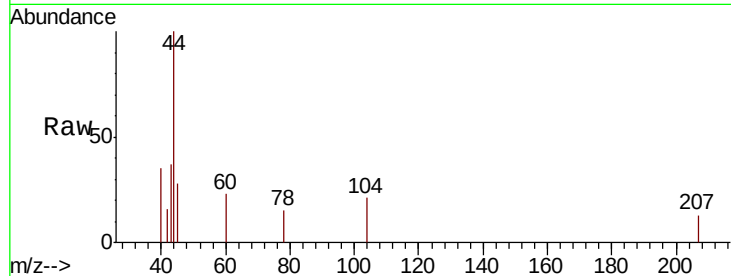
Tot Ion:104 Resp: 425

Ion Ratio Lower Upper

104 100

78 34.4 39.3 58.9#

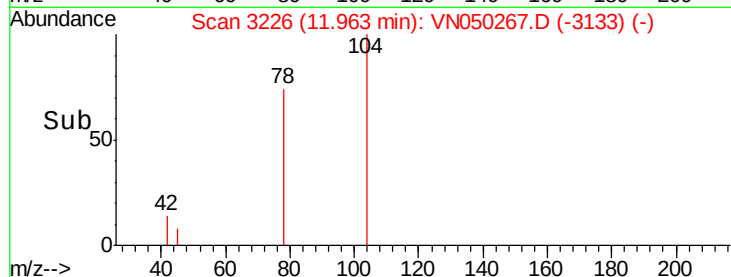
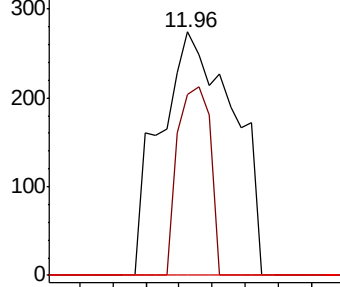
103 0.0 45.0 67.6#



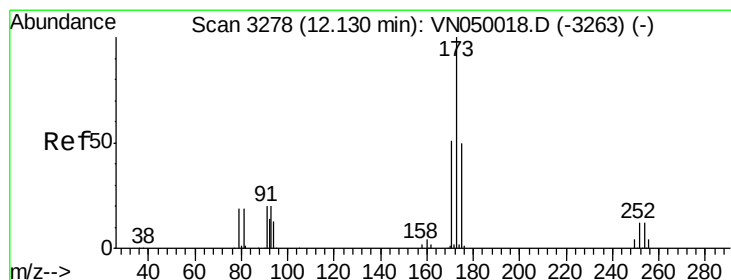
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V



Time-->



#71

Bromoform

Concen: 0.39 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

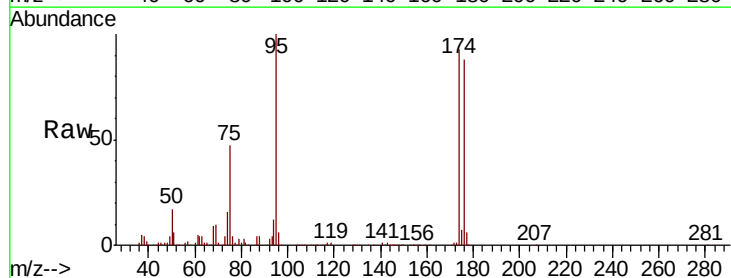
Tgt Ion:173 Resp: 2514

Ion Ratio Lower Upper

173 100

175 928.0 24.1 72.2#

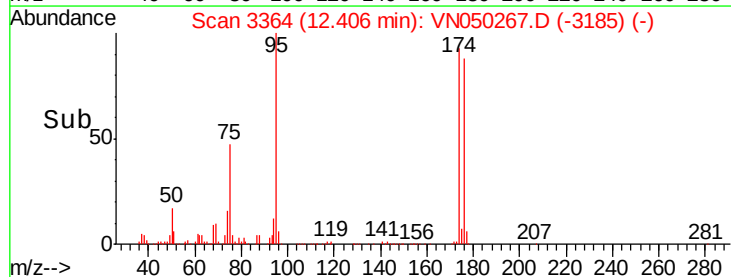
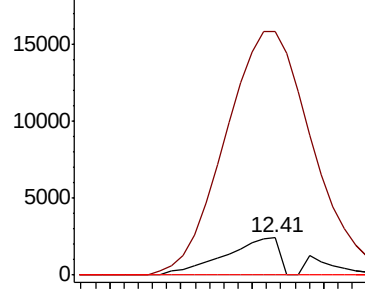
254 0.0 0.2 0.2#

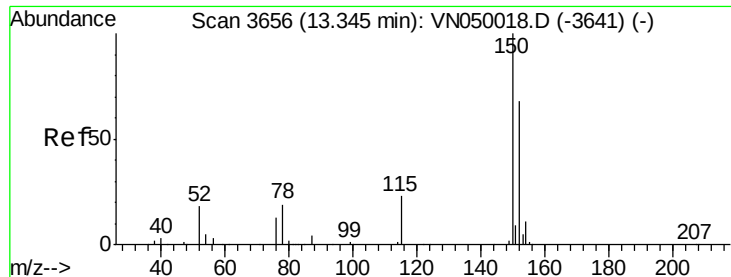


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

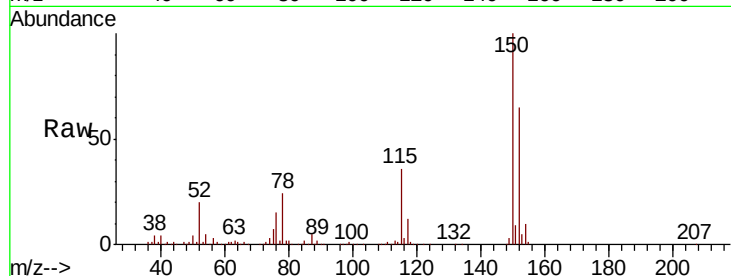
Tot Ion:152 Resp: 328276

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.3

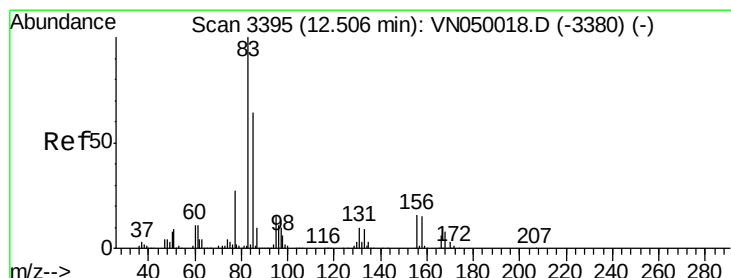
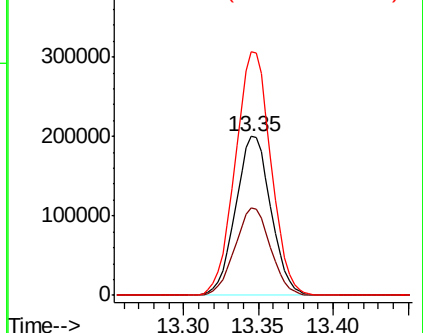
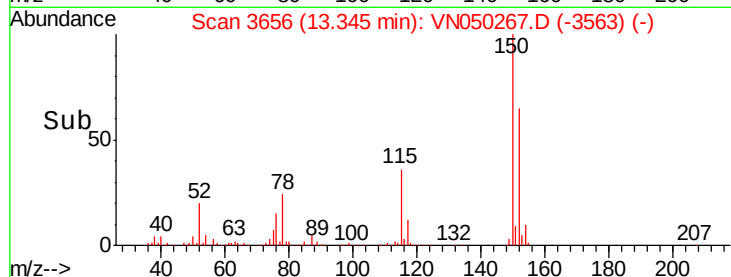
150 155.1 0.0 348.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3360

Delta R.T. -0.11 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

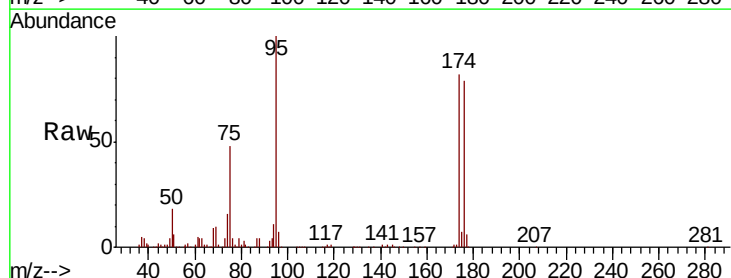
Tgt Ion: 83 Resp: 159

Ion Ratio Lower Upper

83 100

131 305.7 5.1 15.3#

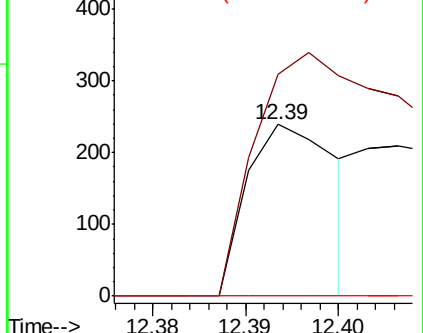
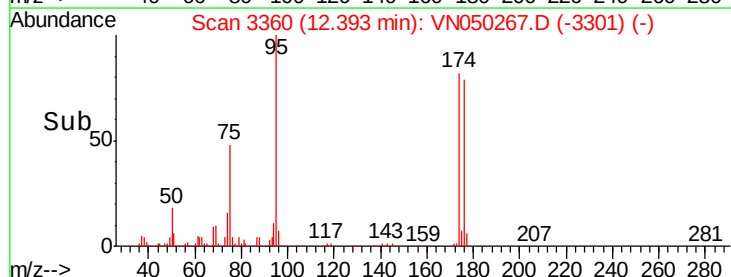
85 0.0 32.3 96.8#

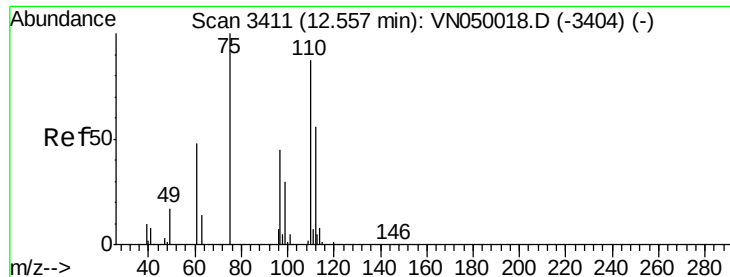


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 31.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

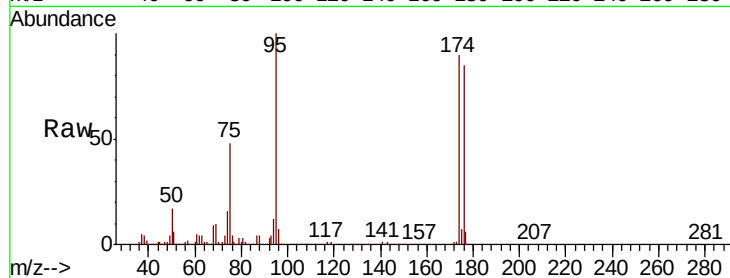
PB111674ZHE#05

Tot Ion: 75 Resp: 190126

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

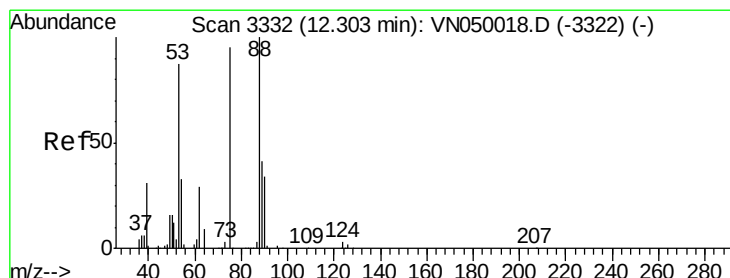
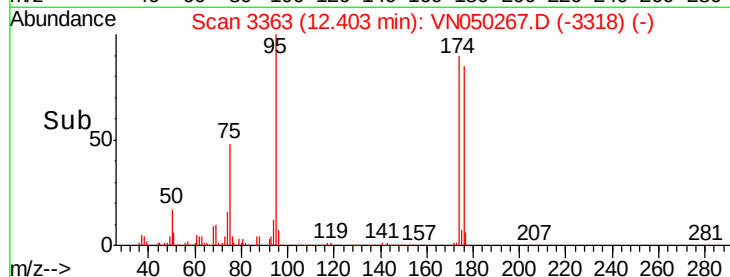
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

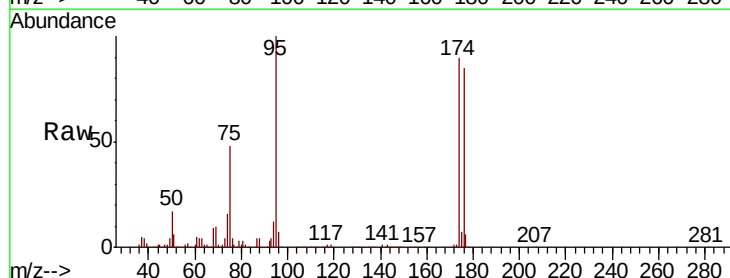
Tgt Ion: 75 Resp: 190126

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

150000

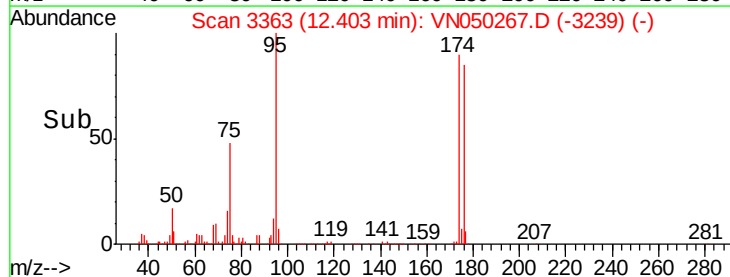
100000

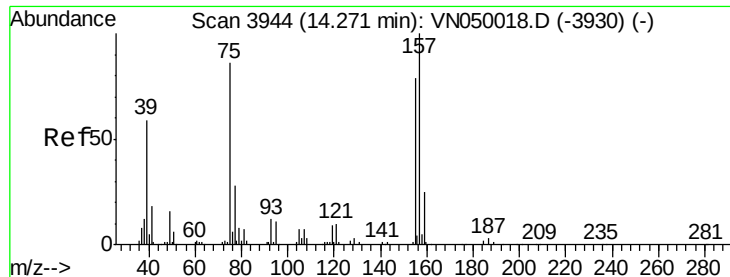
50000

0

12.35 12.40 12.45

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#05

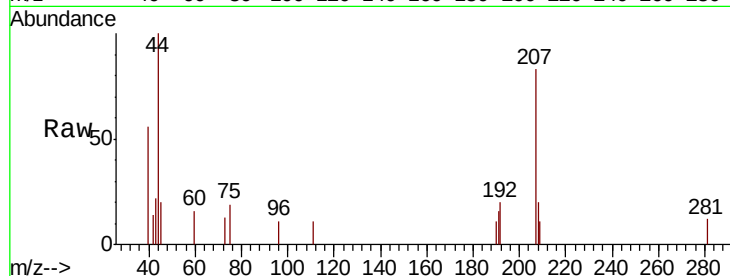
Tot Ion: 75 Resp: 236

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

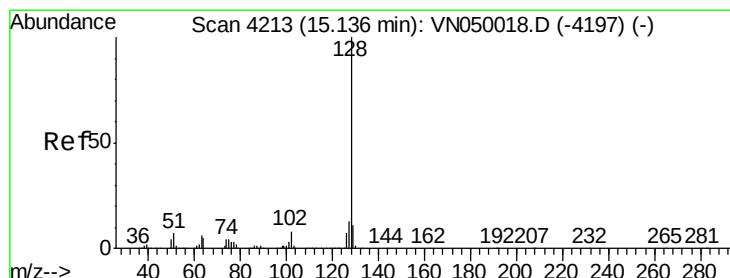
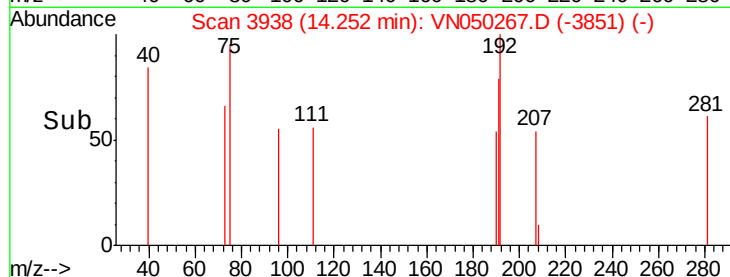
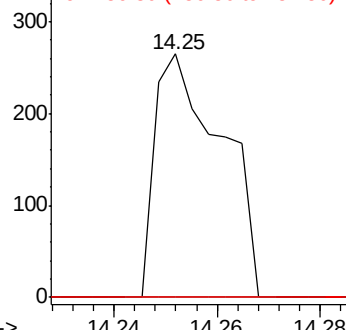
157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 4.50 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050267.D

Acq: 2 Aug 2018 16:34

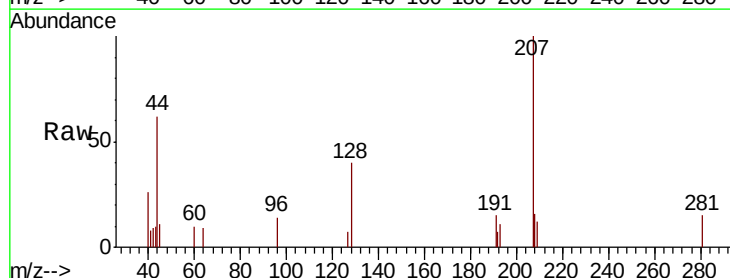
Tgt Ion: 128 Resp: 1430

Ion Ratio Lower Upper

128 100

127 6.6 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

