

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110918\
 Data File : VN052242.D
 Acq On : 9 Nov 2018 22:02
 Operator : MD\SY
 Sample : J5895-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-1

Quant Time: Nov 12 03:26:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	349315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	576323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	480814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	164745	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	224802	47.05	ug/l	0.00
Spiked Amount						
			Recovery	=	94.10%	
35) Dibromofluoromethane	7.59	113	179800	48.16	ug/l	0.00
Spiked Amount						
			Recovery	=	96.32%	
50) Toluene-d8	10.09	98	713052	48.80	ug/l	0.00
Spiked Amount						
			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	12.40	95	206472	43.70	ug/l	0.00
Spiked Amount						
			Recovery	=	87.40%	

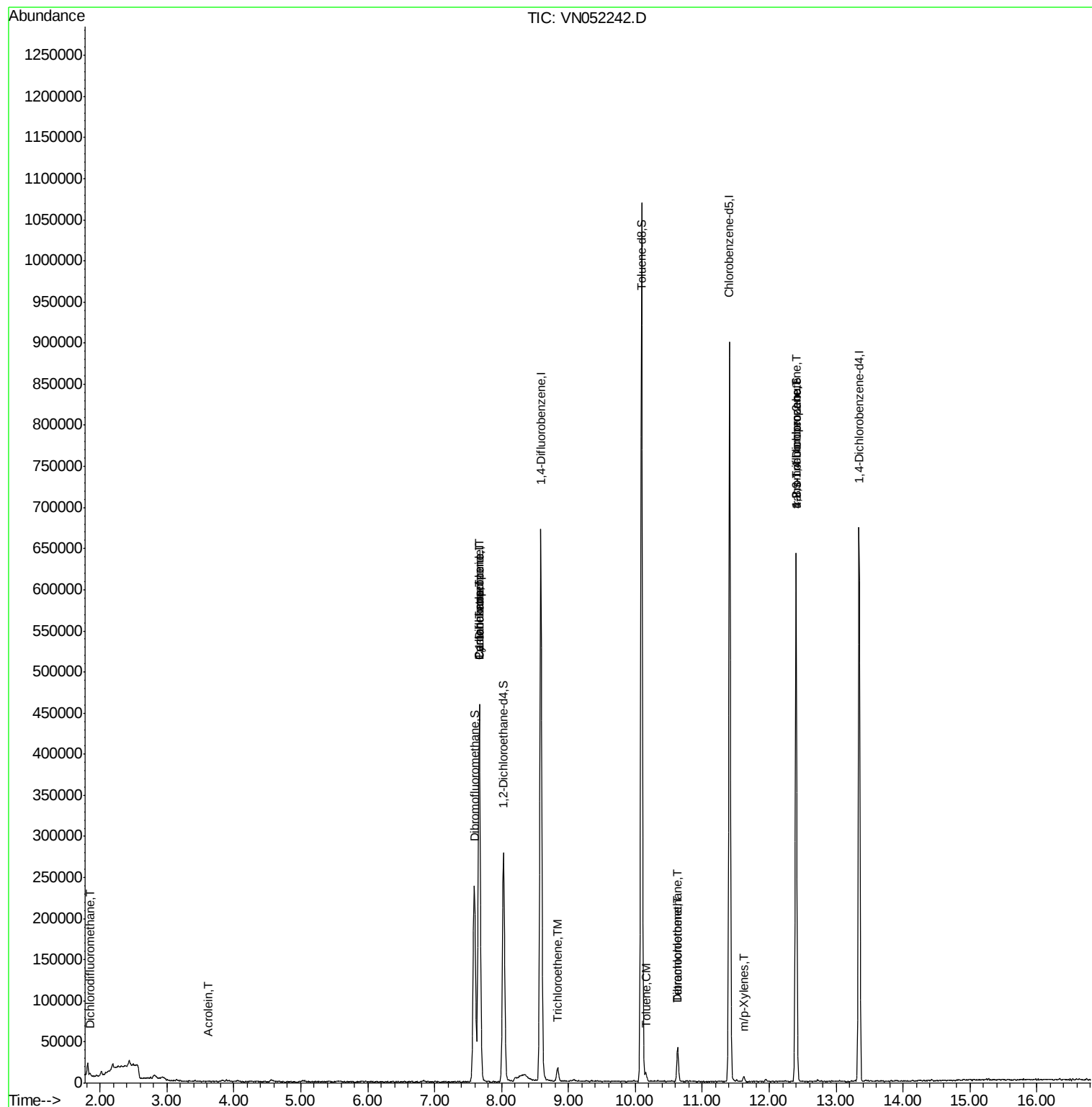
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	1238	0.326	ug/l	71
13) Acrolein	3.62	56	63	34.242	ug/l #	1
16) Acetone	3.82	43	1589	Below Cal		91
31) Cyclohexane	7.67	56	9977	0.669	ug/l #	34
36) 1,1-Dichloropropene	7.67	75	30194	5.191	ug/l #	52
38) Carbon Tetrachloride	7.67	117	35748	6.781	ug/l #	17
44) Trichloroethene	8.83	130	5795	1.389	ug/l	94
52) Toluene	10.15	92	3061	0.305	ug/l	89
60) Dibromochloromethane	10.63	129	8493	2.306	ug/l #	11
64) Tetrachloroethene	10.63	164	8679	2.578	ug/l	98
68) m/p-Xylenes	11.62	106	1888	0.283	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	112039	38.438	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	112039	131.207	ug/l #	8

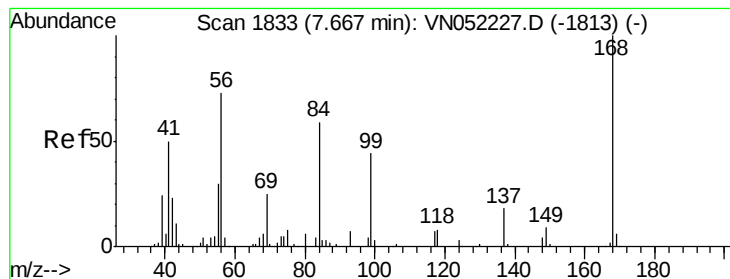
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampled :

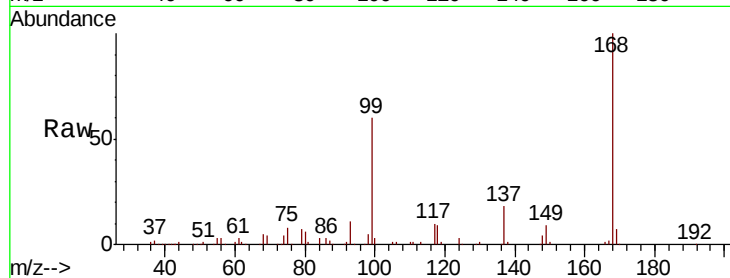
SB-1

Tot Ion:168 Resp: 349315

Ion Ratio Lower Upper

168 100

99 59.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

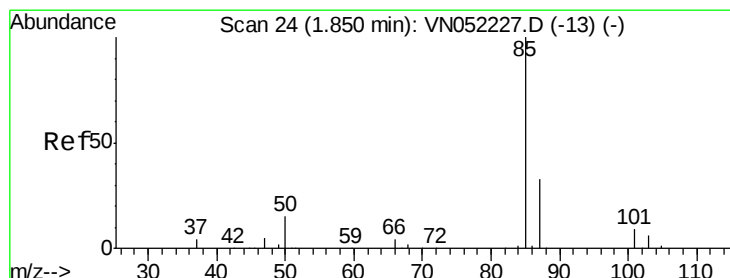
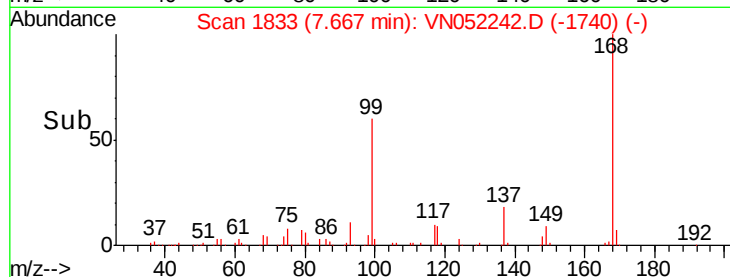
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.326 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052242.D

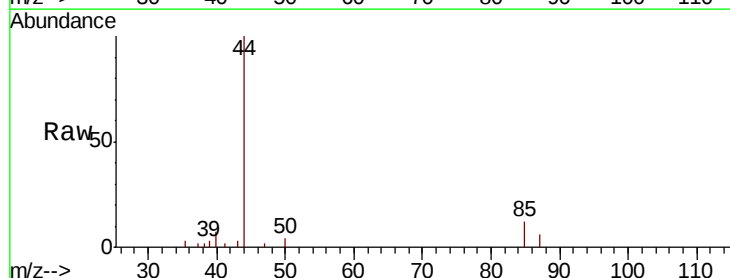
Acq: 9 Nov 2018 22:02

Tgt Ion: 85 Resp: 1238

Ion Ratio Lower Upper

85 100

87 49.5 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

1000

800

600

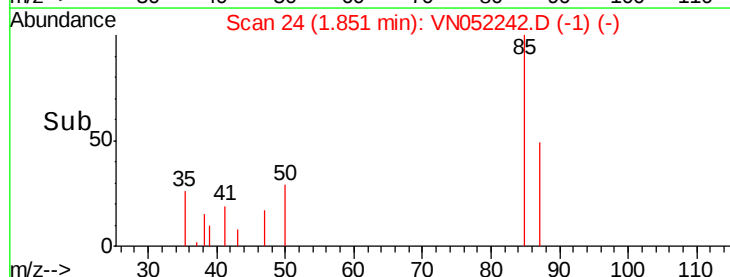
400

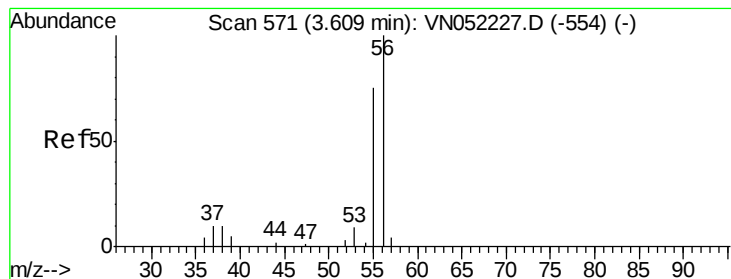
200

0

1.82 1.84 1.86 1.88

Time-->





#13

Acrolein

Concen: 34.242 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampleId :

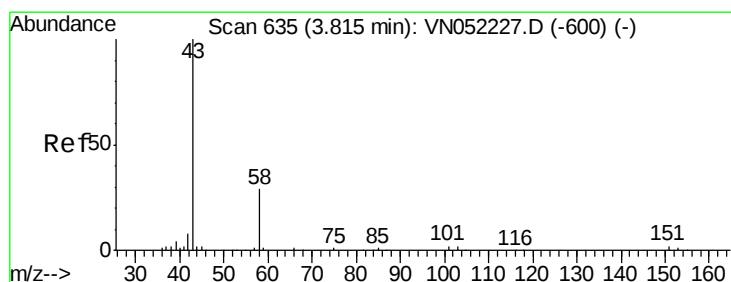
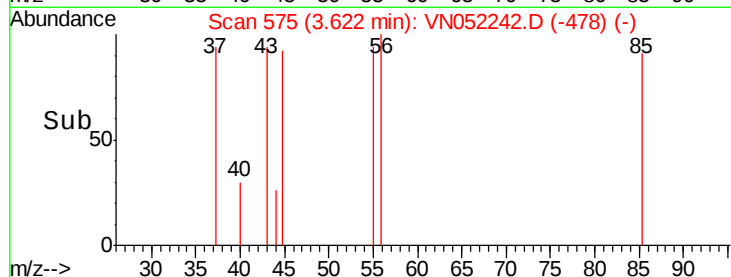
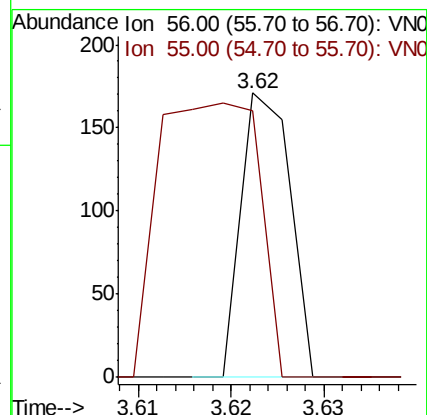
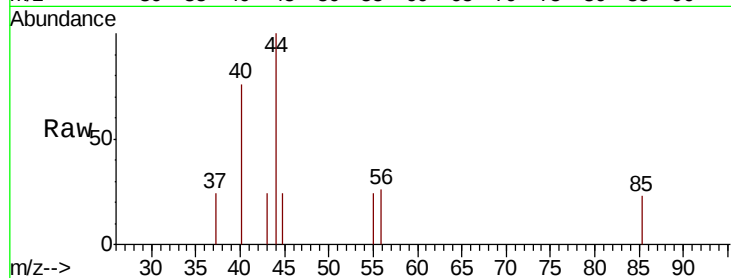
SB-1

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 196.8 59.9 89.9#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052242.D

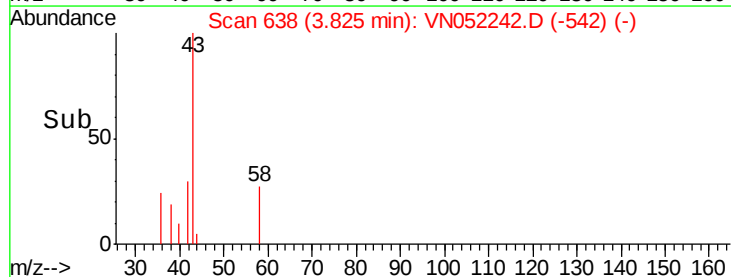
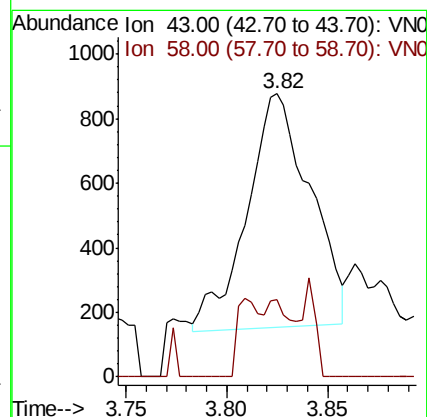
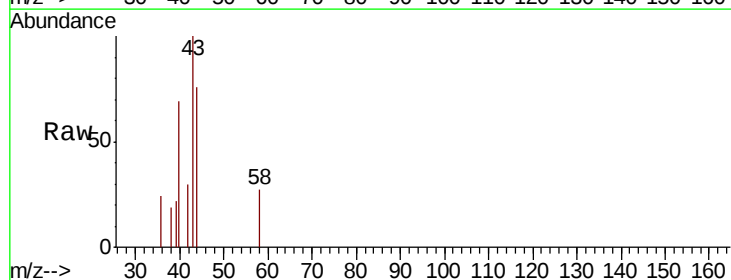
Acq: 9 Nov 2018 22:02

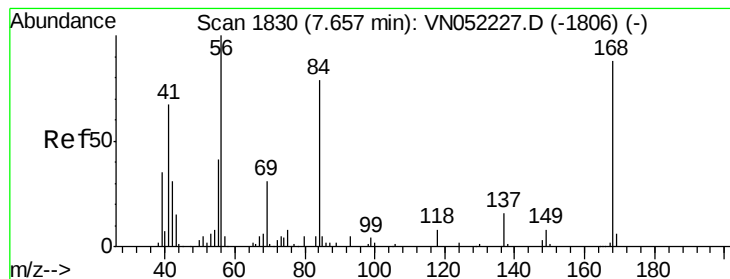
Tgt Ion: 43 Resp: 1589

Ion Ratio Lower Upper

43 100

58 33.5 23.0 34.6





#31

Cyclohexane

Concen: 0.669 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampled :

SB-1

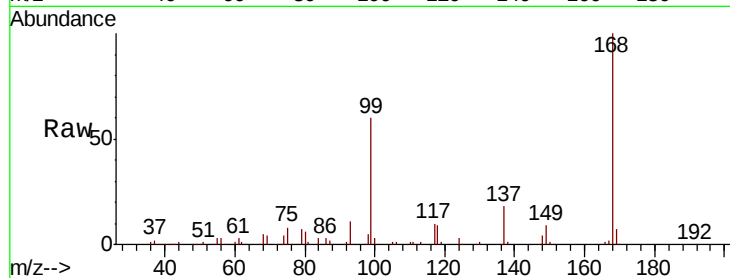
Tot Ion: 56 Resp: 9977

Ion Ratio Lower Upper

56 100

69 136.4 24.8 37.2#

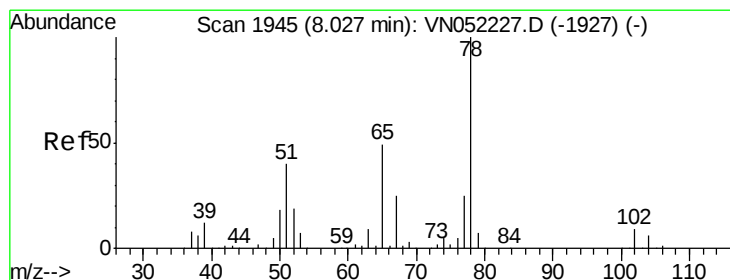
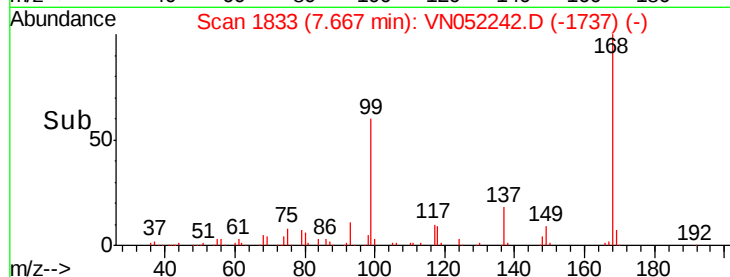
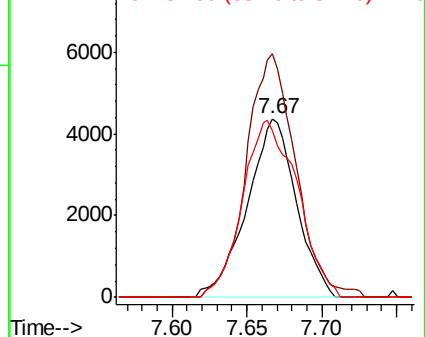
84 93.3 63.1 94.7



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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052242.D

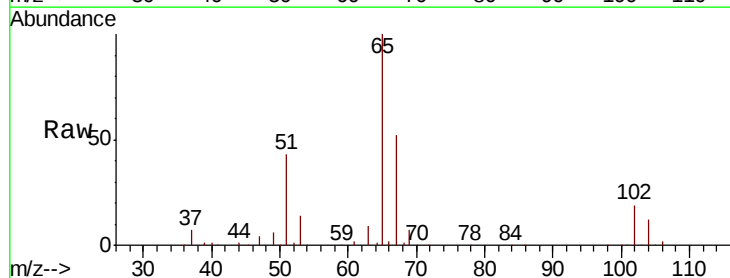
Acq: 9 Nov 2018 22:02

Tgt Ion: 65 Resp: 224802

Ion Ratio Lower Upper

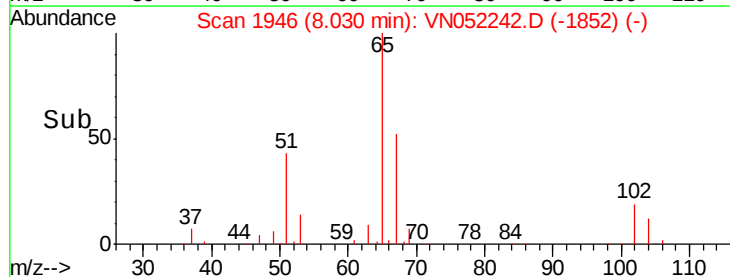
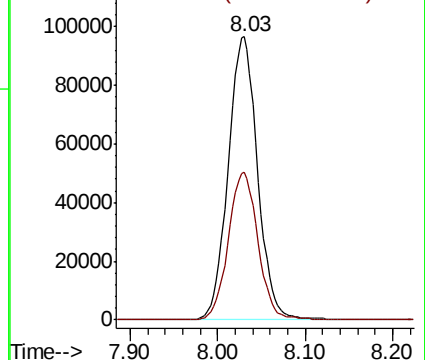
65 100

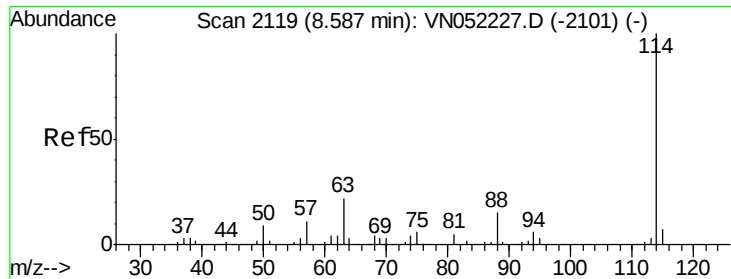
67 52.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

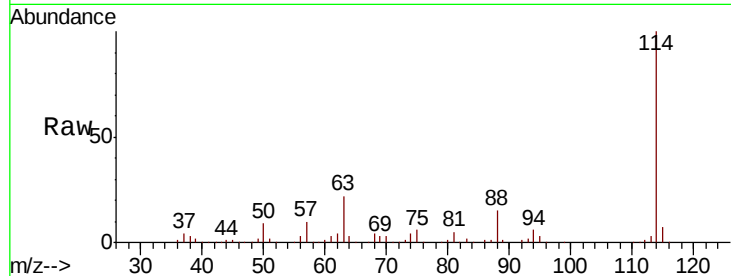




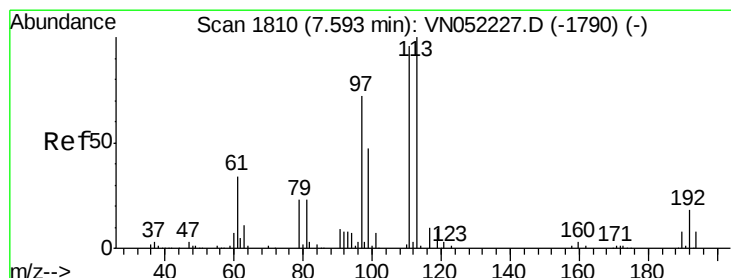
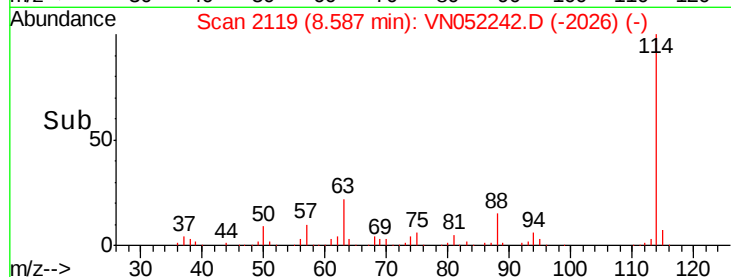
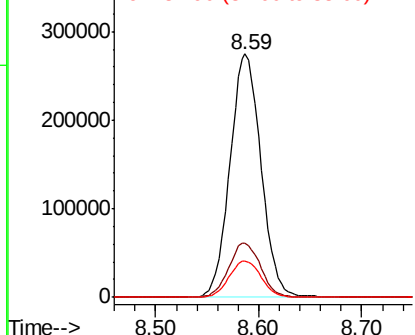
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052242.D
Acq: 9 Nov 2018 22:02

Instrument :
MSVOA_N
ClientSampleId :
SB-1

Tot Ion:114 Resp: 576323
Ion Ratio Lower Upper
114 100
63 22.3 0.0 43.4
88 15.0 0.0 30.2

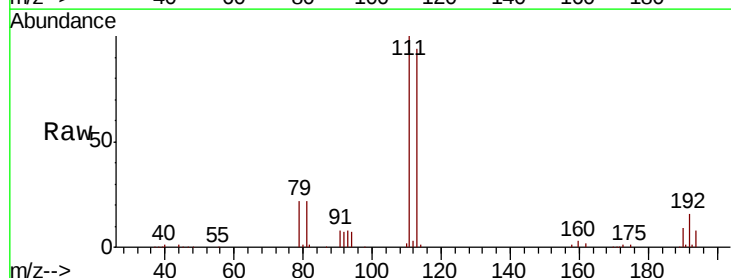


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

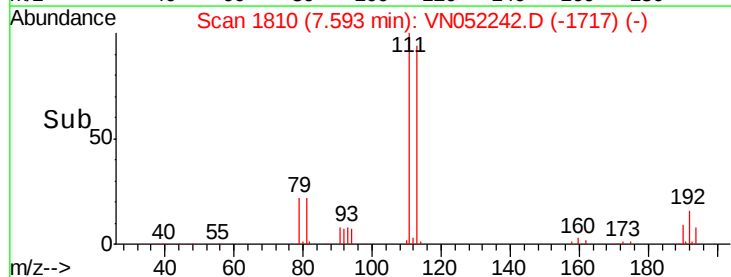
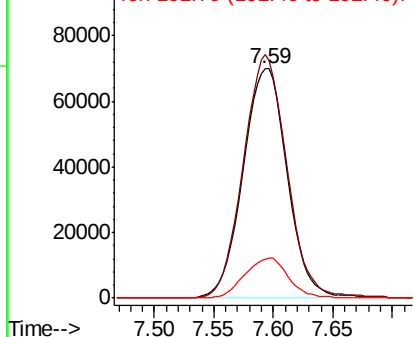


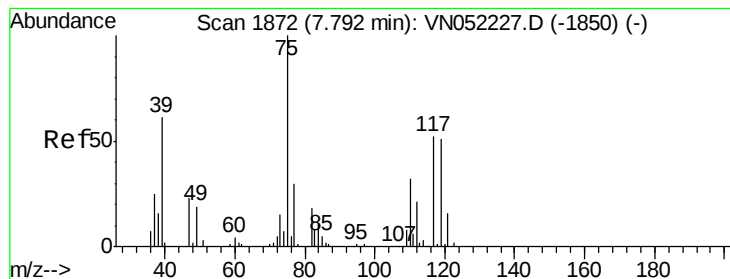
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052242.D
Acq: 9 Nov 2018 22:02

Tgt Ion:113 Resp: 179800
Ion Ratio Lower Upper
113 100
111 105.1 80.2 120.4
192 17.4 14.1 21.1



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





#36

1,1-Dichloropropene

Concen: 5.191 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampled :

SB-1

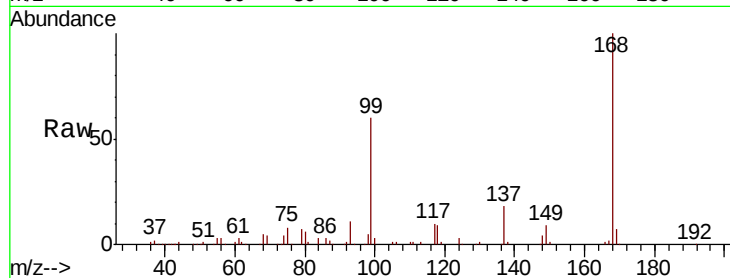
Tot Ion: 75 Resp: 30194

Ion Ratio Lower Upper

75 100

110 9.0 16.4 49.4#

77 0.0 23.9 35.9#

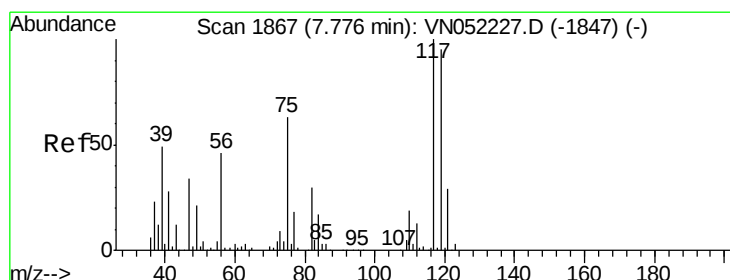
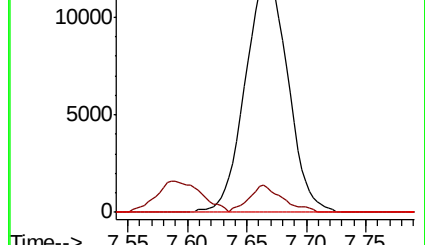
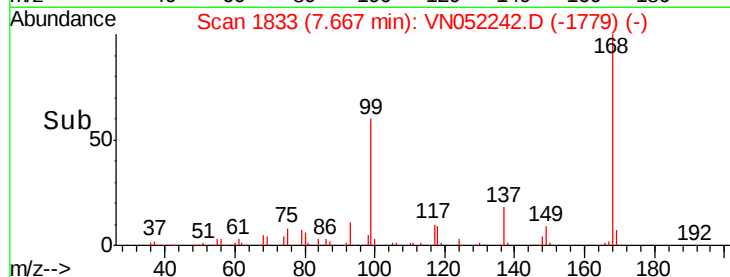


Abundance Ion 74.90 (74.60 to 75.60): VN052242.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN052242.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN052242.D (-1774) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.781 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

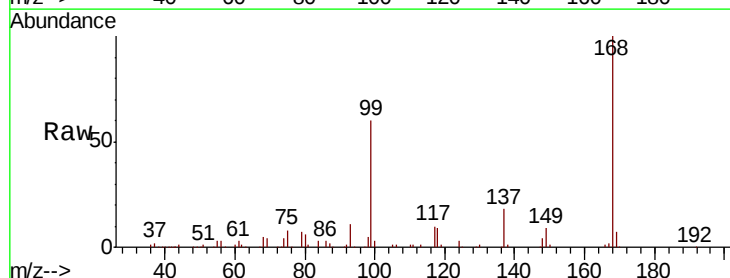
Tgt Ion: 117 Resp: 35748

Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.8#

121 0.0 23.4 35.2#

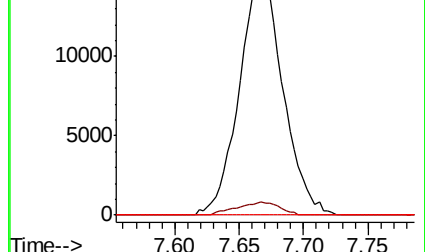
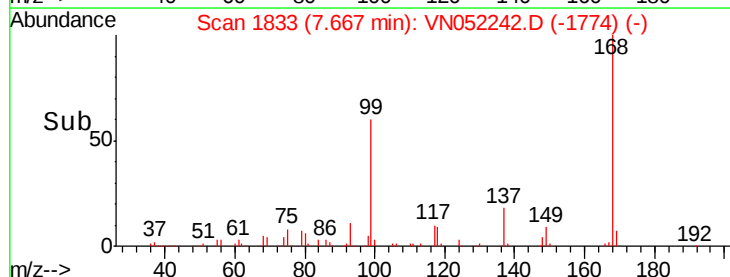


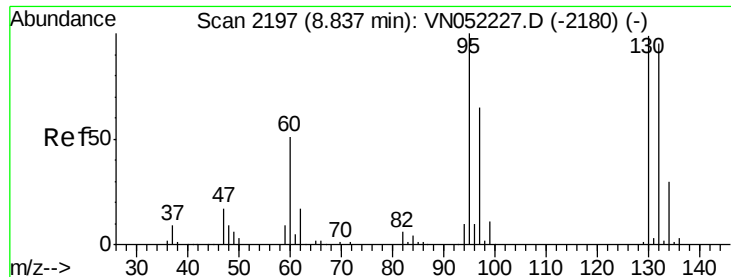
Abundance Ion 116.80 (116.50 to 117.50): VN052242.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN052242.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN052242.D (-1774) (-)

Time-->





#44

Trichloroethene

Concen: 1.389 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampleId :

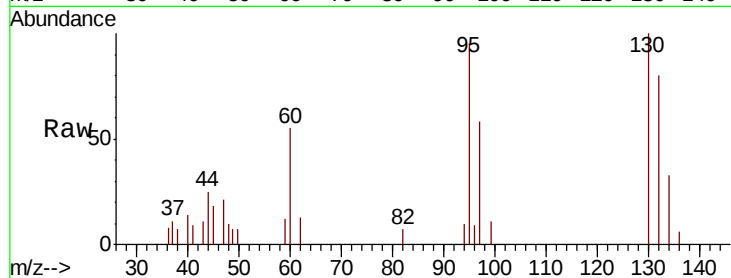
SB-1

Tot Ion:130 Resp: 5795

Ion Ratio Lower Upper

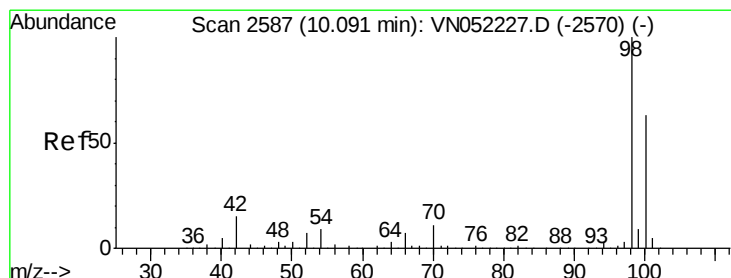
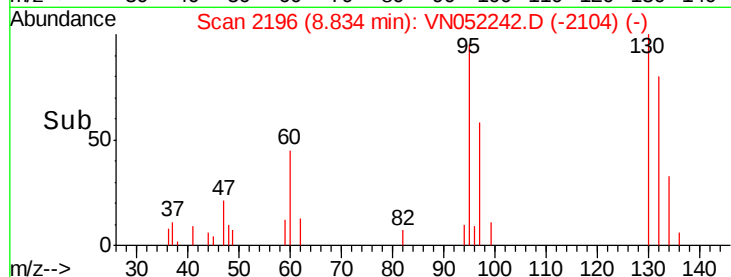
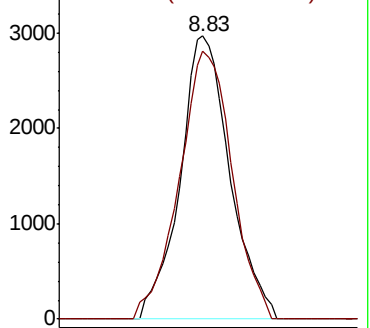
130 100

95 94.8 0.0 201.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052242.D

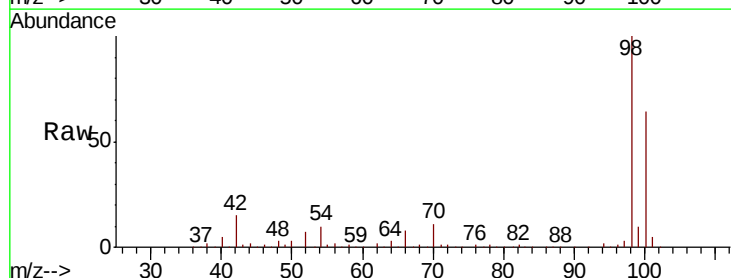
Acq: 9 Nov 2018 22:02

Tgt Ion: 98 Resp: 713052

Ion Ratio Lower Upper

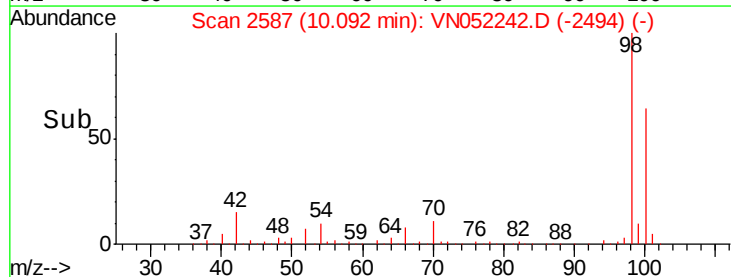
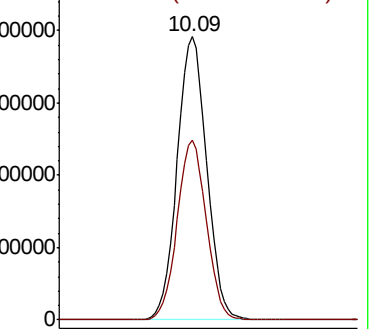
98 100

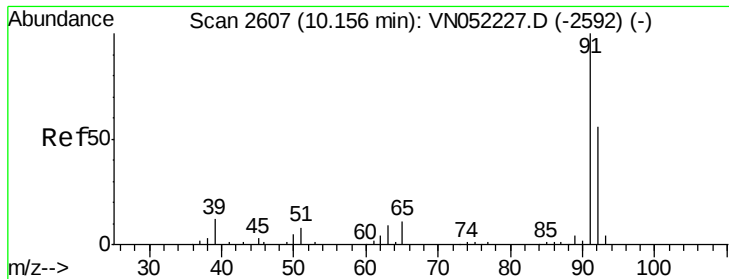
100 62.8 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 0.305 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampleId :

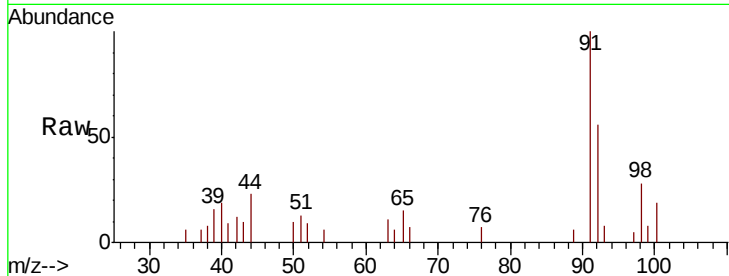
SB-1

Tot Ion: 92 Resp: 3061

Ion Ratio Lower Upper

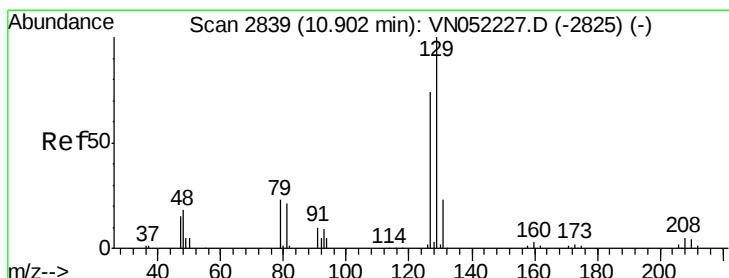
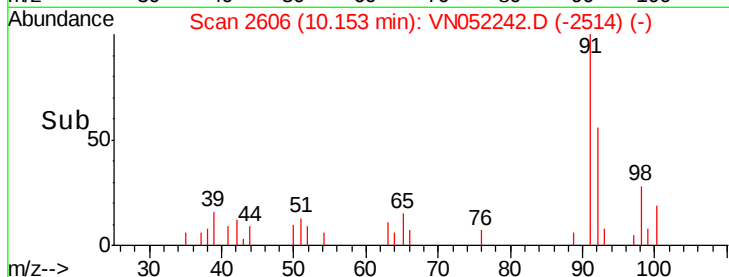
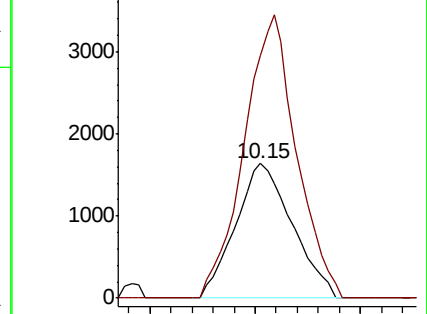
92 100

91 194.3 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN052227.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN052227.D (-2592) (-)



#60

Dibromochloromethane

Concen: 2.306 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN052242.D

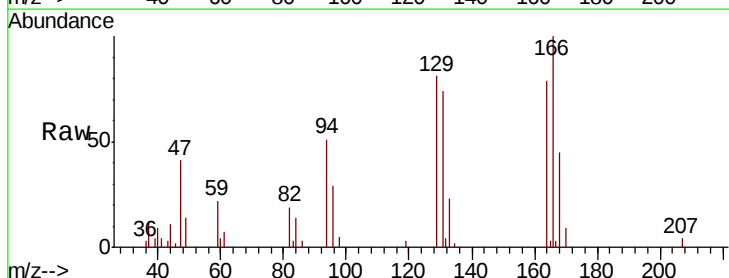
Acq: 9 Nov 2018 22:02

Tgt Ion: 129 Resp: 8493

Ion Ratio Lower Upper

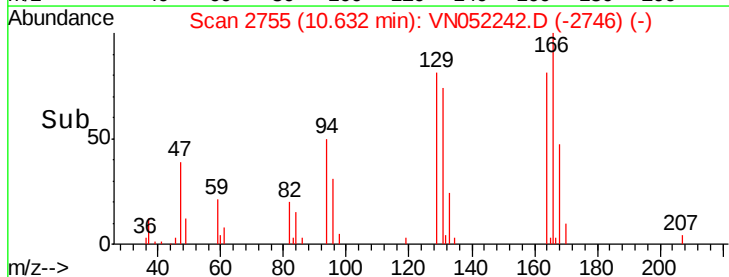
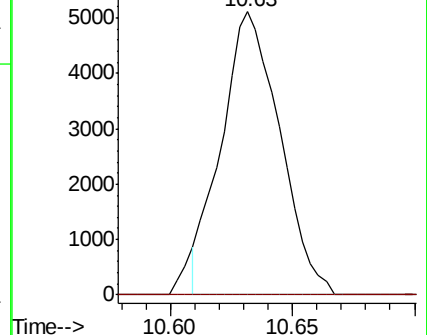
129 100

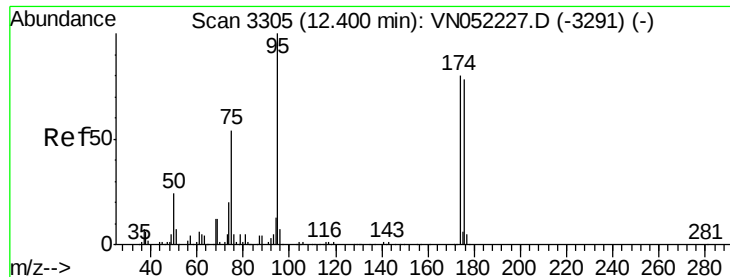
127 0.0 38.0 114.1#



Abundance Ion 128.80 (128.50 to 129.50): VN052227.D (-2825) (-)

Ion 126.80 (126.50 to 127.50): VN052227.D (-2825) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampleId :

SB-1

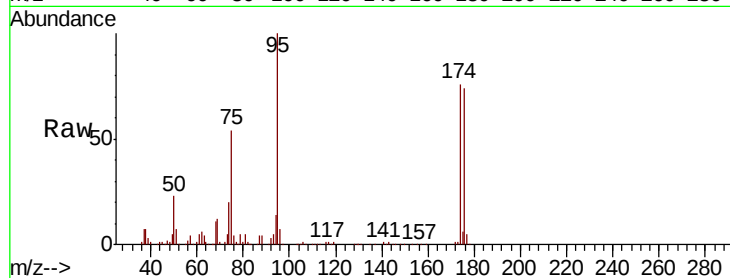
Tot Ion: 95 Resp: 206472

Ion Ratio Lower Upper

95 100

174 76.5 0.0 159.4

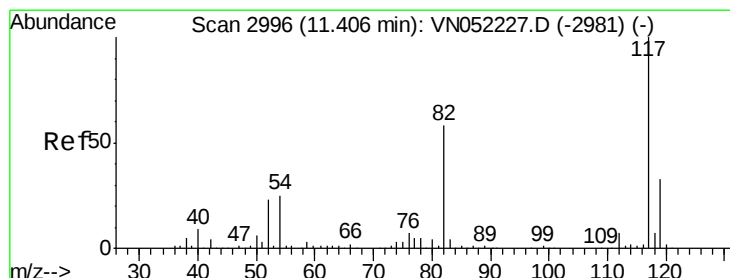
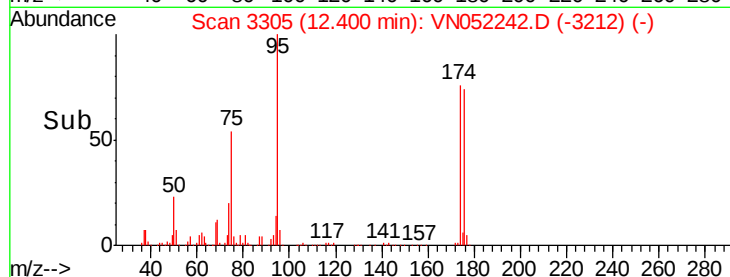
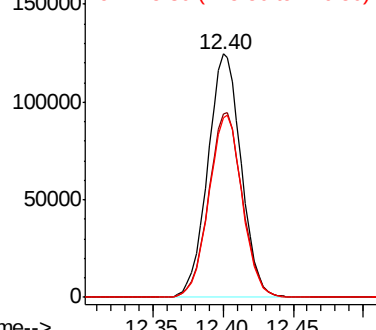
176 74.9 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

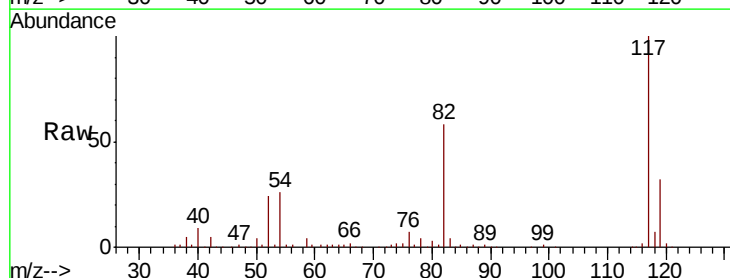
Tgt Ion: 117 Resp: 480814

Ion Ratio Lower Upper

117 100

82 58.1 46.2 69.2

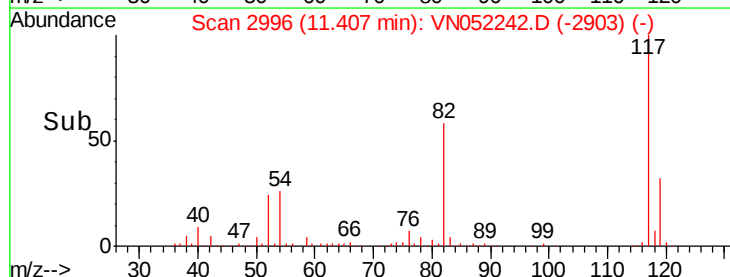
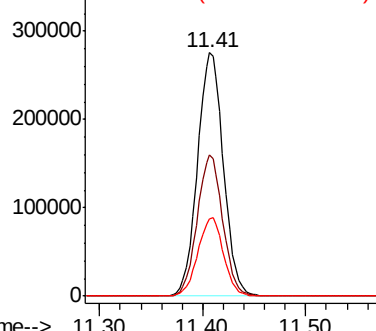
119 31.9 26.2 39.4

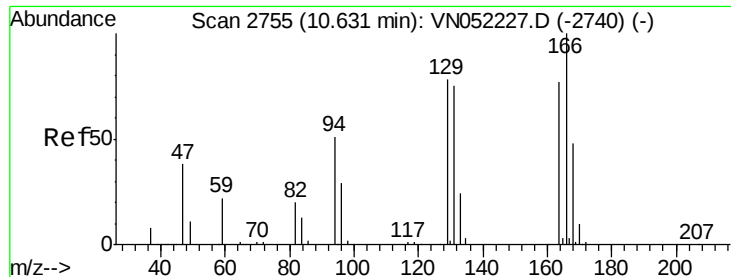


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#64

Tetrachloroethene

Concen: 2.578 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampled :

SB-1

Tot Ion:164 Resp: 8679

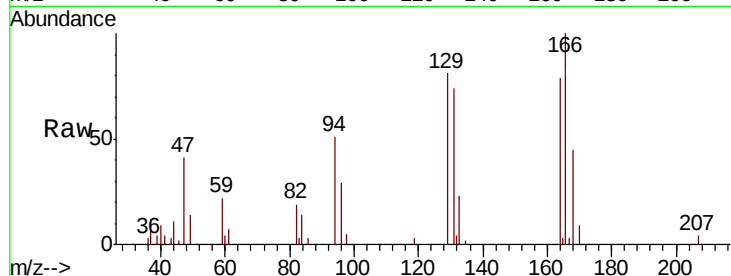
Ion Ratio Lower Upper

164 100

166 126.8 103.6 155.4

129 102.3 81.0 121.6

131 93.4 77.9 116.9

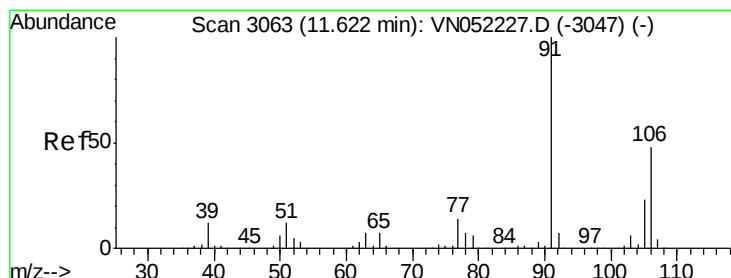
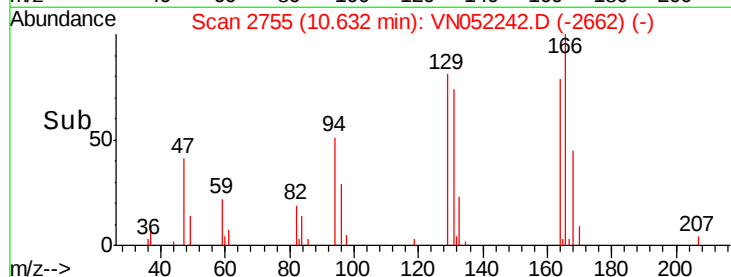
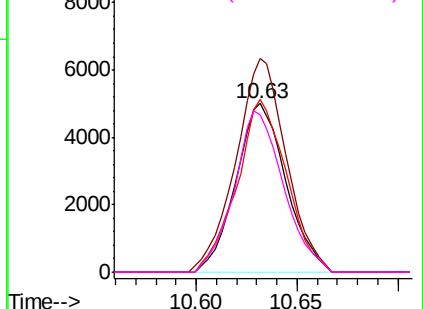


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#68

m/p-Xylenes

Concen: 0.283 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN052242.D

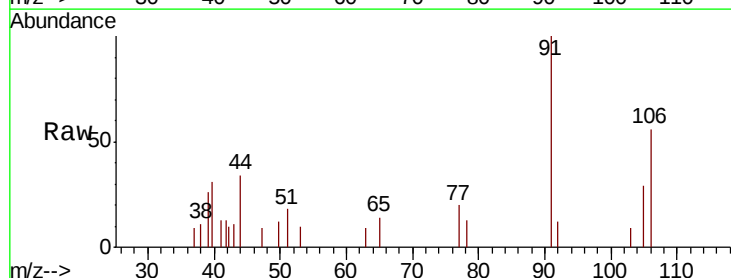
Acq: 9 Nov 2018 22:02

Tgt Ion:106 Resp: 1888

Ion Ratio Lower Upper

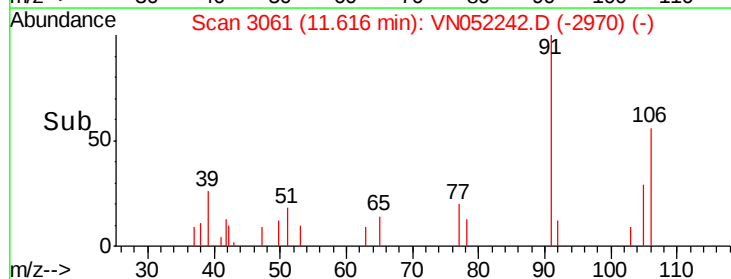
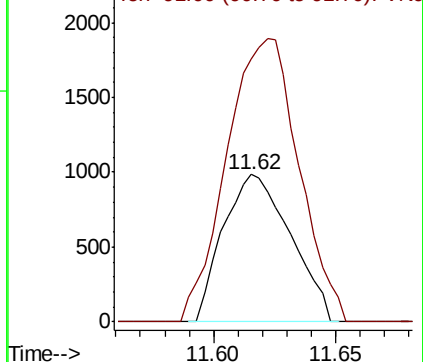
106 100

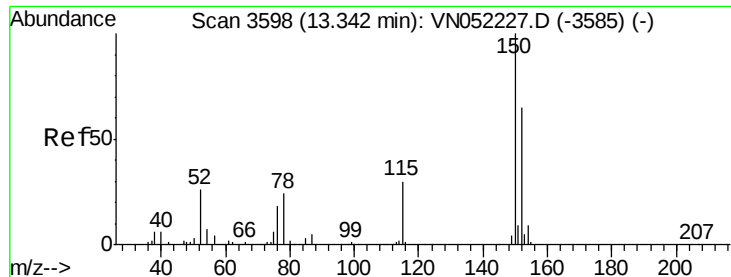
91 205.8 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampled :

SB-1

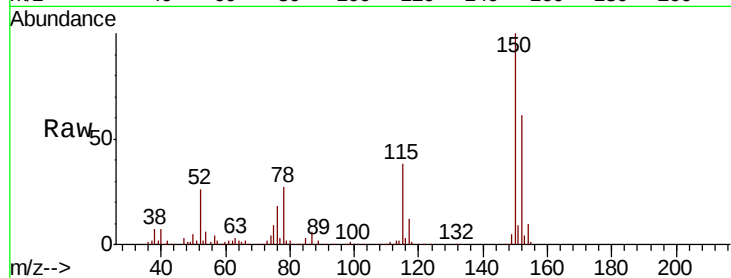
Tot Ion:152 Resp: 164745

Ion Ratio Lower Upper

152 100

115 61.3 29.8 89.5

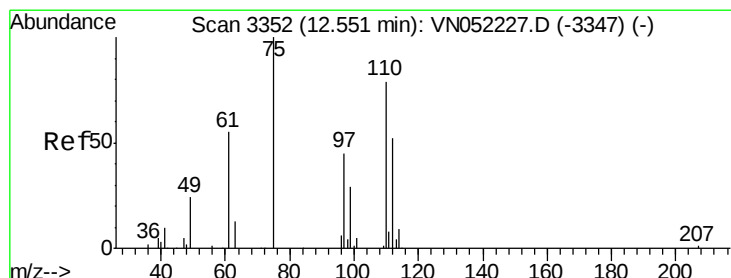
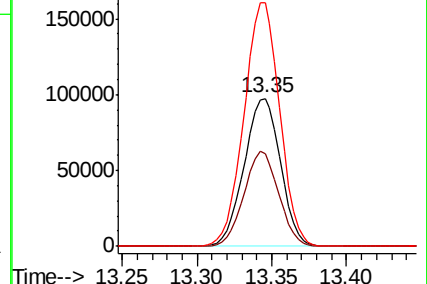
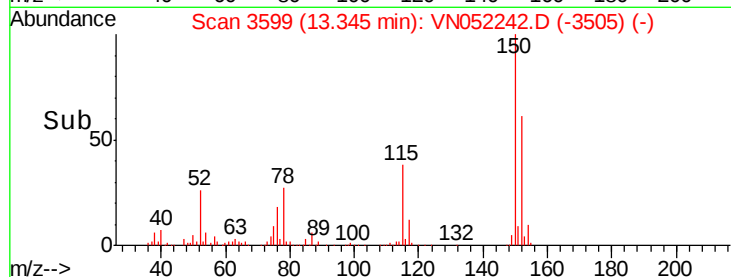
150 161.6 0.0 350.2



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



#76

1,2,3-Trichloropropane

Concen: 38.438 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052242.D

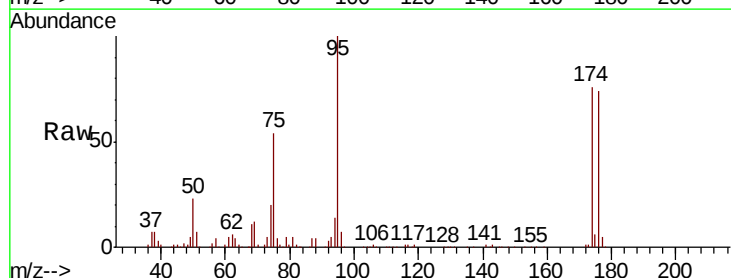
Acq: 9 Nov 2018 22:02

Tgt Ion: 75 Resp: 112039

Ion Ratio Lower Upper

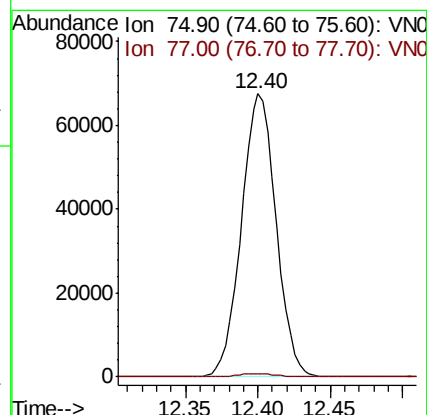
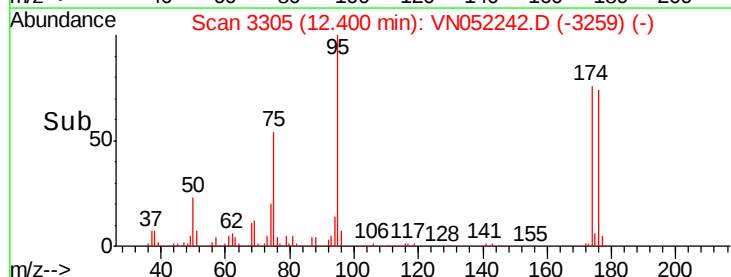
75 100

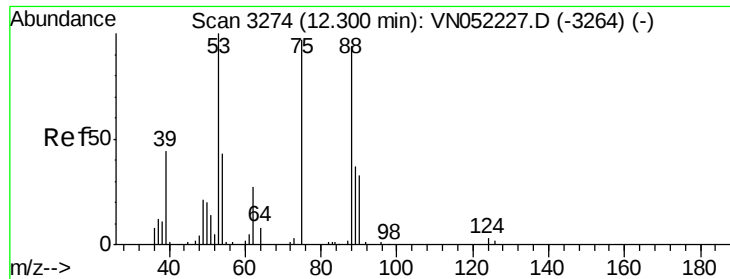
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.207 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052242.D

Acq: 9 Nov 2018 22:02

Instrument :

MSVOA_N

ClientSampleId :

SB-1

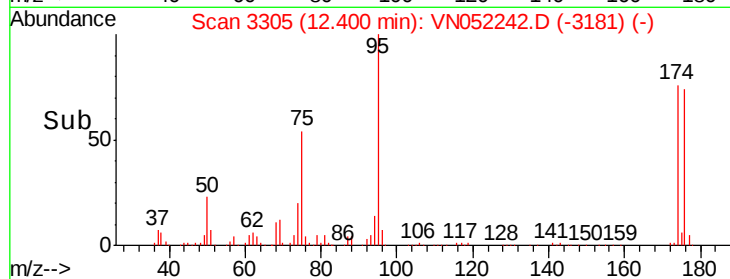
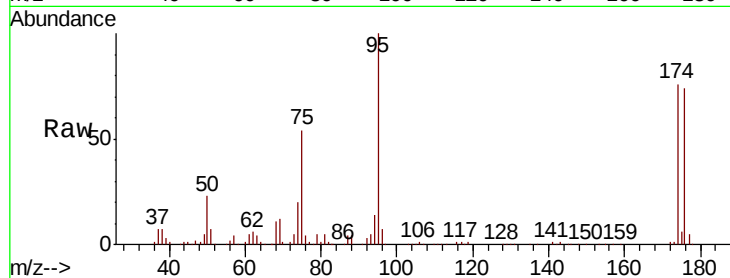
Tot Ion: 75 Resp: 112039

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

89 0.0 33.7 50.5#



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

