

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051491.D
 Acq On : 25 Sep 2018 18:44
 Operator : MD\SY
 Sample : J5065-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Quant Time: Sep 26 04:08:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	677121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1013540	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	834530	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	295698	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	453466	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	
35) Dibromofluoromethane	7.59	113	408028	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
50) Toluene-d8	10.09	98	1433155	46.96	ug/l	0.00
Spiked Amount			Recovery	=	93.92%	
62) 4-Bromofluorobenzene	12.40	95	373049	37.78	ug/l	0.00
Spiked Amount			Recovery	=	75.56%	

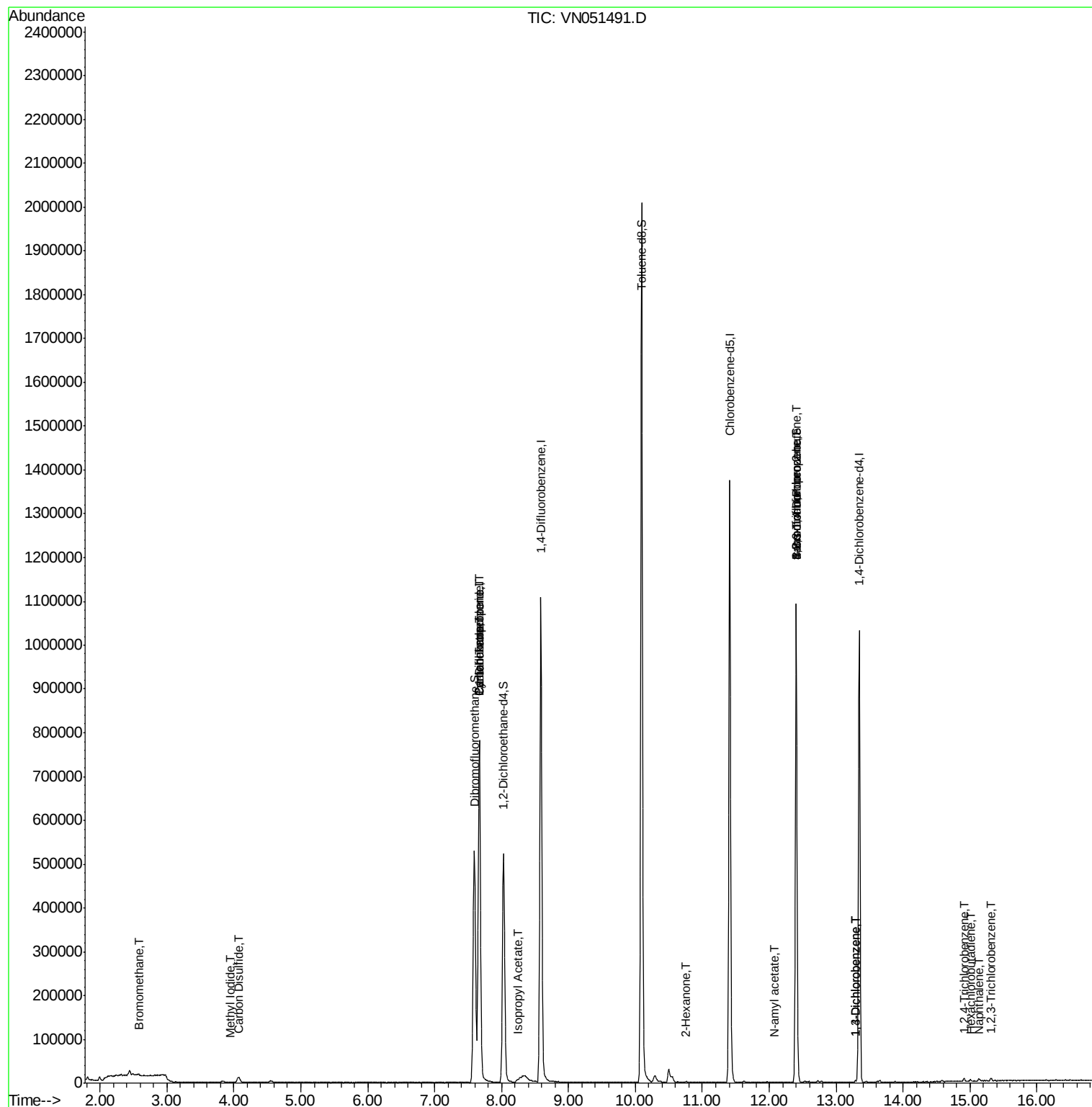
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1769	0.325	ug/l	85
10) Methyl Iodide	3.95	142	482	0.321	ug/l #	42
16) Acetone	3.83	43	4643	Below Cal		95
17) Carbon Disulfide	4.06	76	4897	0.221	ug/l #	94
31) Cyclohexane	7.66	56	13072	0.979	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45710	3.895	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60843	4.956	ug/l #	16
43) Isopropyl Acetate	8.24	43	2842	0.233	ug/l #	60
59) 2-Hexanone	10.76	43	2072	0.476	ug/l #	52
71) Bromoform	12.40	173	2923	0.528	ug/l #	1
74) N-amyl acetate	12.07	43	1557	0.249	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	182939	37.268	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182939	114.596	ug/l #	12
87) 1,3-Dichlorobenzene	13.29	146	2421	0.222	ug/l	78
88) 1,4-Dichlorobenzene	13.29	146	2421	0.230	ug/l	78
93) 1,2,4-Trichlorobenzene	14.91	180	2513	6.369	ug/l	97
94) Hexachlorobutadiene	15.02	225	1092	0.272	ug/l	86
95) Naphthalene	15.14	128	4982	8.425	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	2458	0.483	ug/l	74

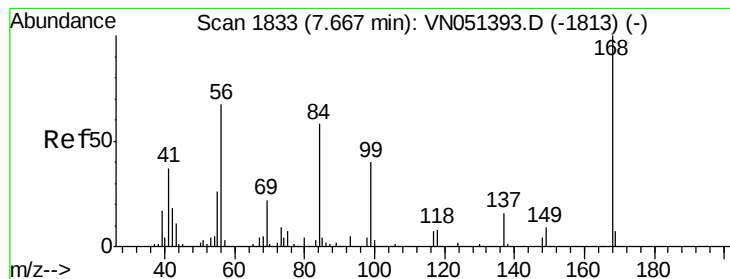
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

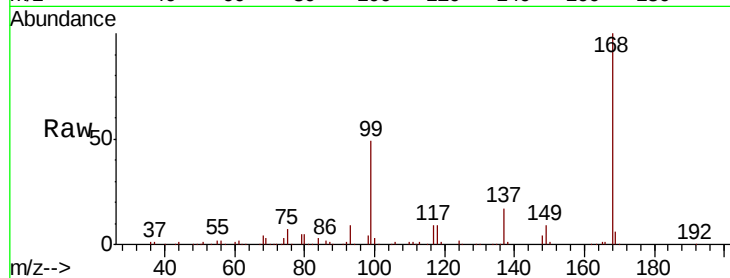
TRIP-BLANK

Tot Ion:168 Resp: 677121

Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

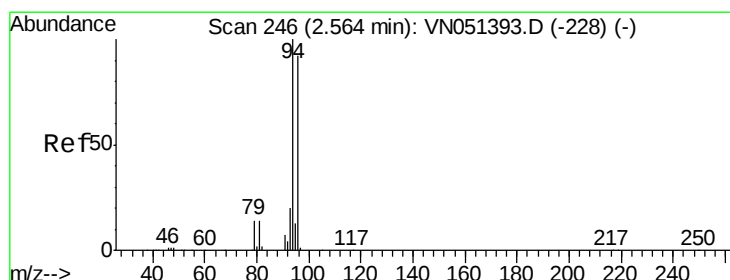
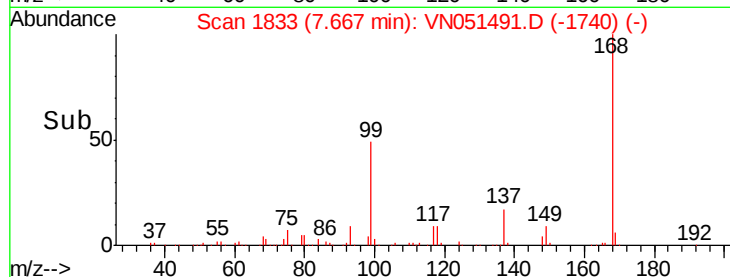
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.325 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051491.D

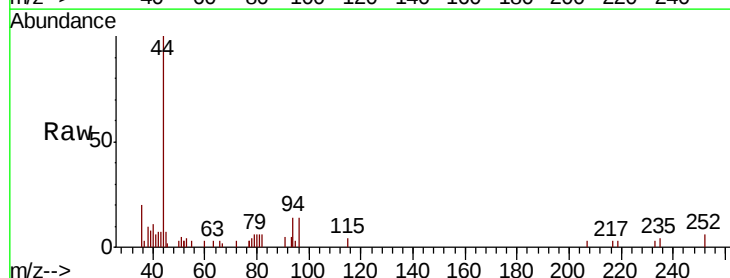
Acq: 25 Sep 2018 18:44

Tgt Ion: 94 Resp: 1769

Ion Ratio Lower Upper

94 100

96 77.6 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VN

2.57

1000

800

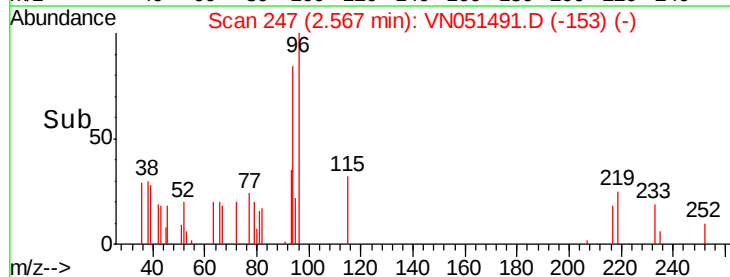
600

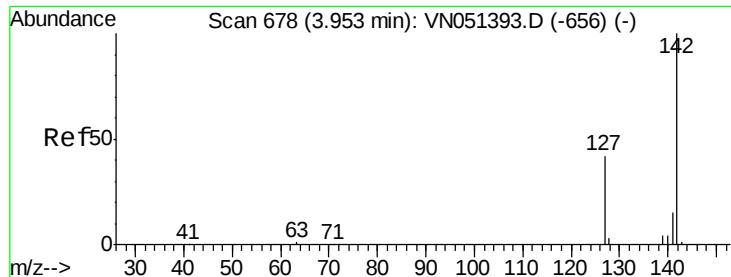
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200

0

Time-->

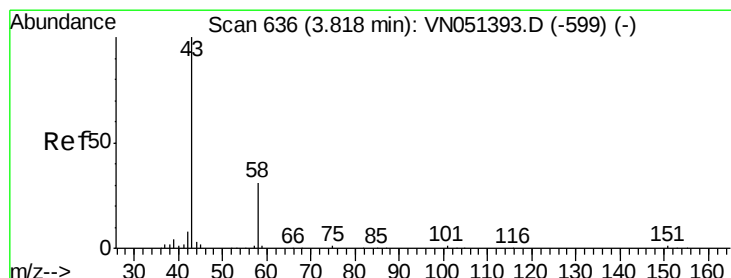
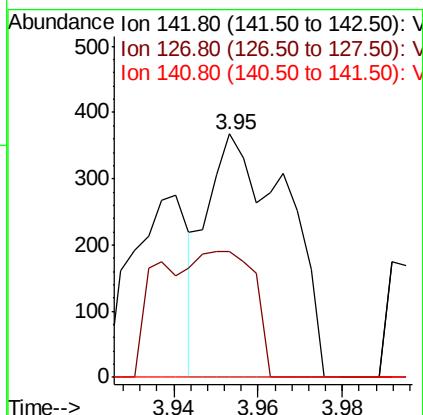
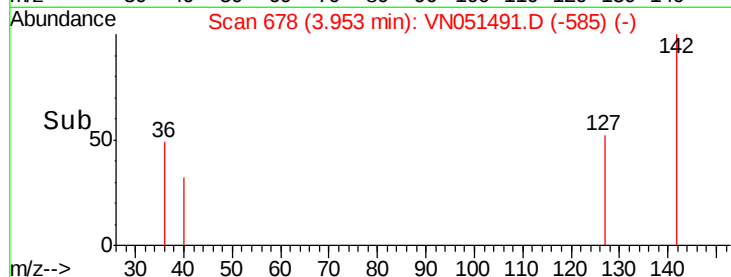
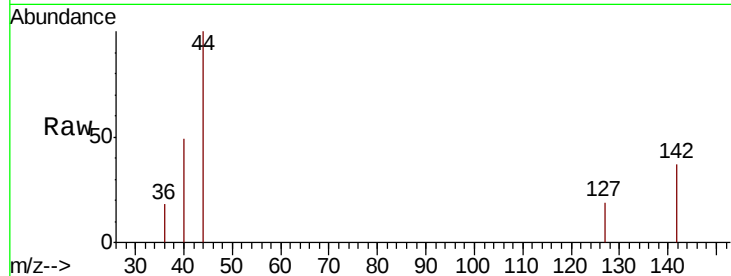




#10
Methvl Iodide
Concen: 0.321 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051491.D
Acq: 25 Sep 2018 18:44

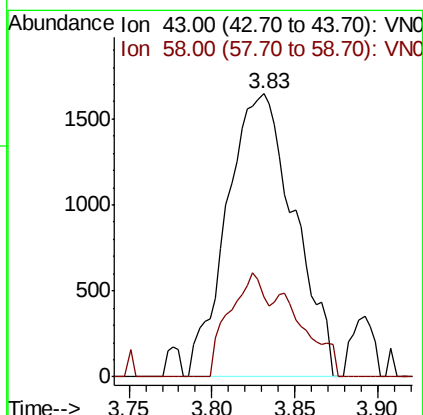
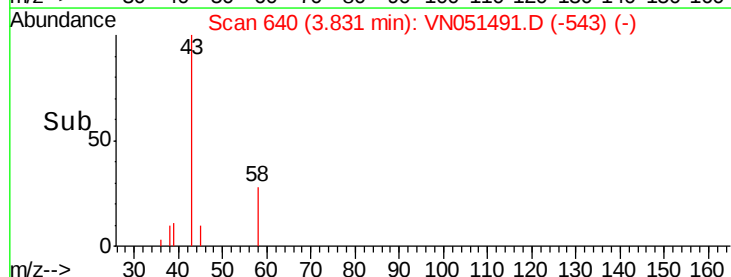
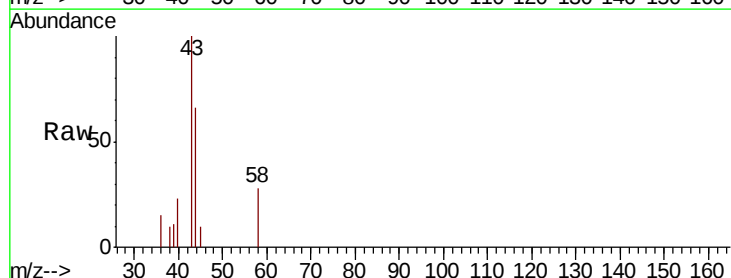
Instrument :
MSVOA_N
ClientSampleId :
TRIP-BLANK

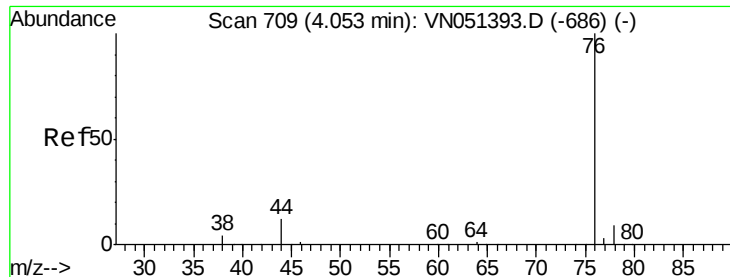
Tot Ion:142 Resp: 482
Ion Ratio Lower Upper
142 100
127 0.0 33.2 49.8#
141 0.0 11.5 17.3#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN051491.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 43 Resp: 4643
Ion Ratio Lower Upper
43 100
58 28.3 25.0 37.4





#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

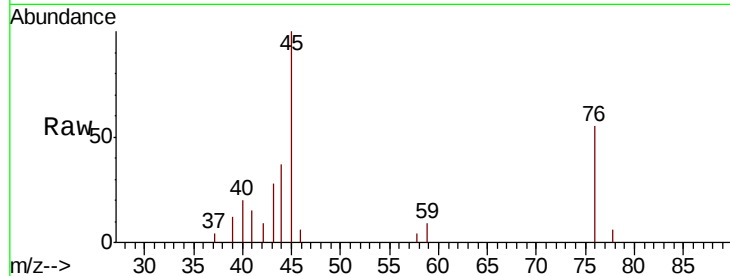
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Tot Ion: 76 Resp: 4897

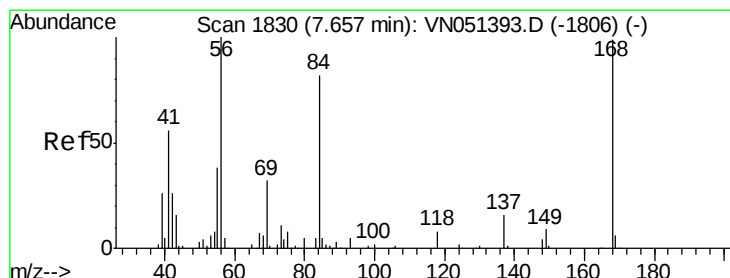
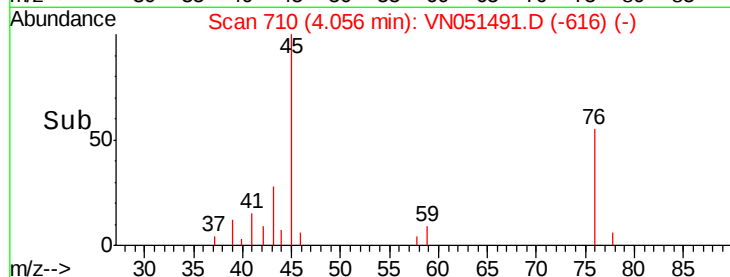
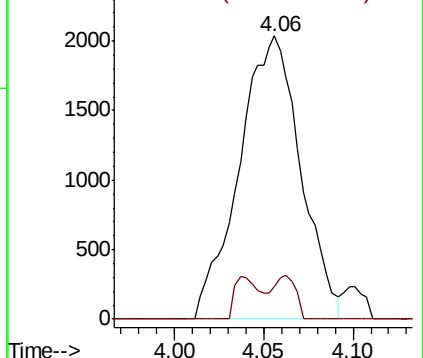
Ion Ratio Lower Upper

76 100

78 11.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#31

Cyclohexane

Concen: 0.979 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

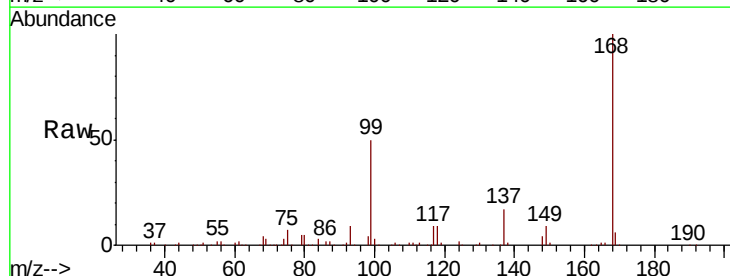
Tgt Ion: 56 Resp: 13072

Ion Ratio Lower Upper

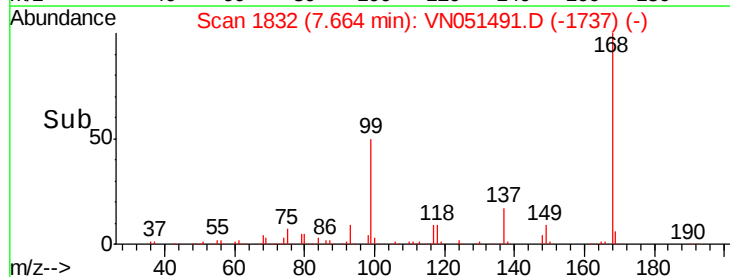
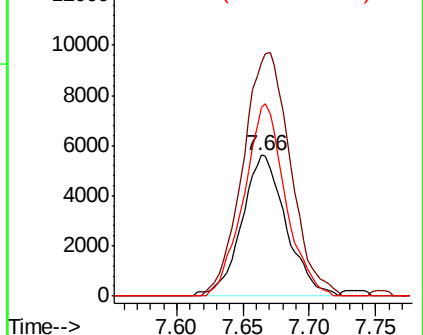
56 100

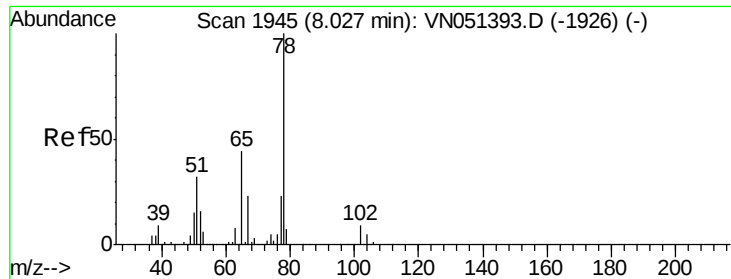
69 165.6 25.8 38.6#

84 134.4 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 53.461 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

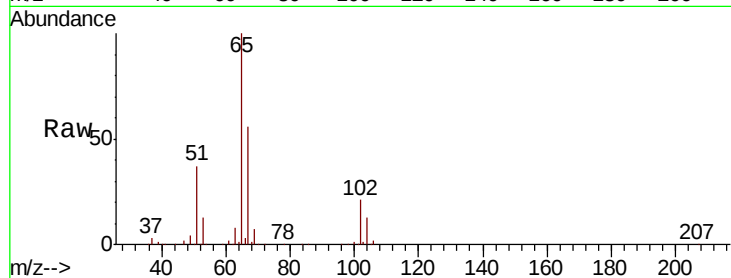
TRIP-BLANK

Tot Ion: 65 Resp: 453466

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

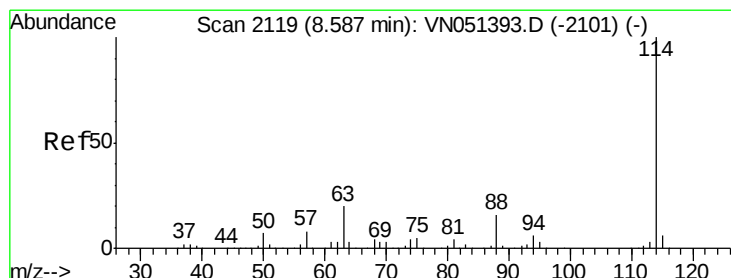
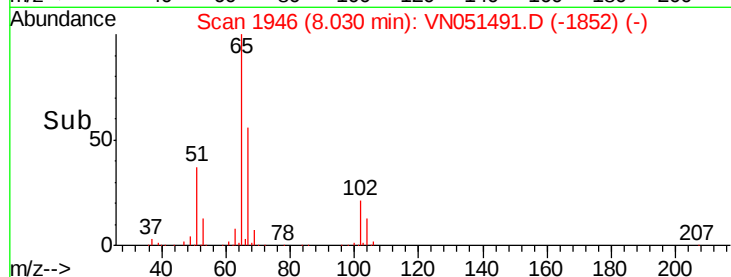
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

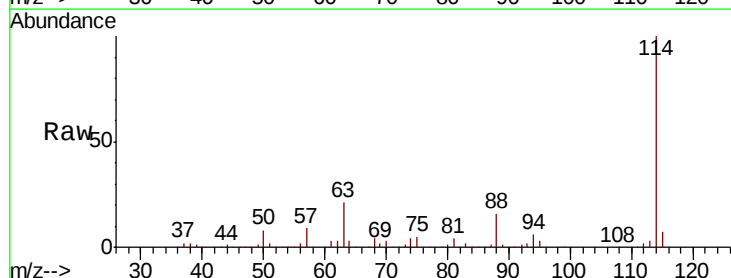
Tgt Ion: 114 Resp: 1013540

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.2

88 15.6 0.0 31.4



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

8.59

600000

500000

400000

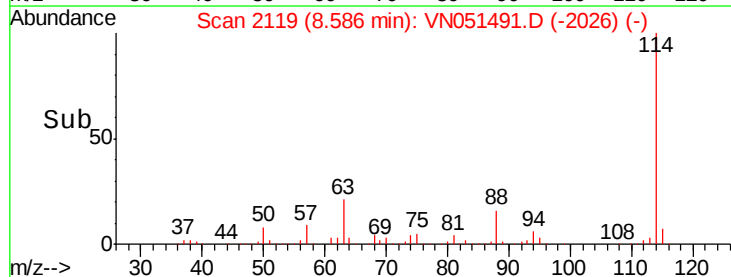
300000

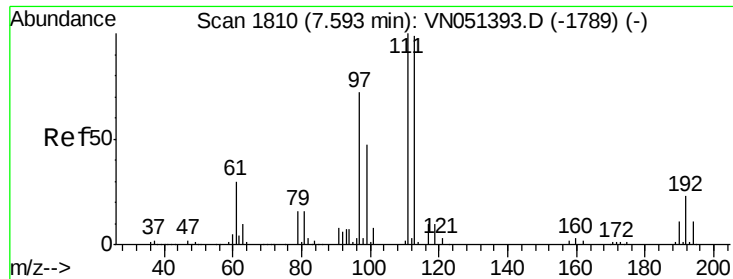
200000

100000

0

Time-->

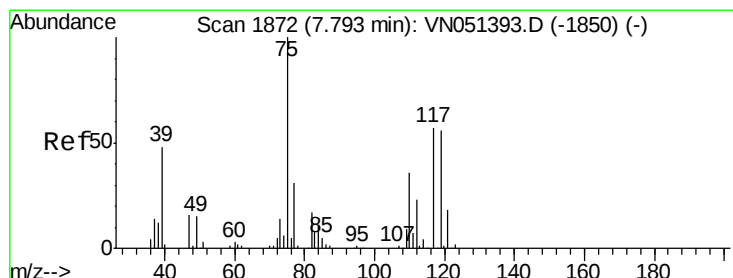
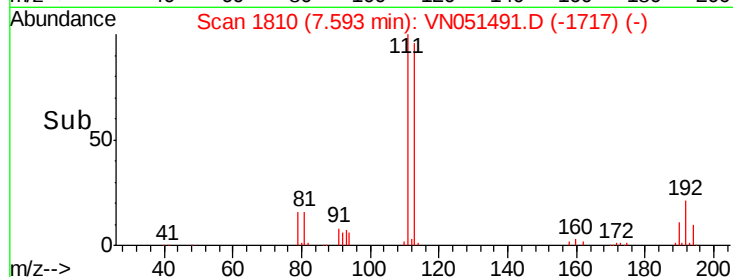
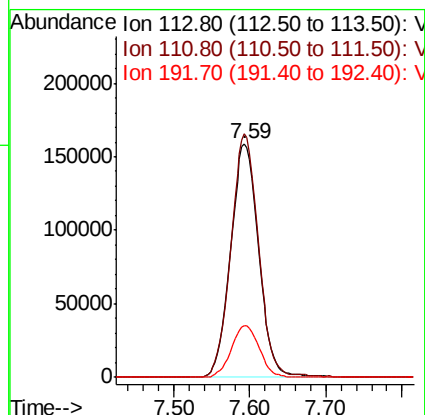
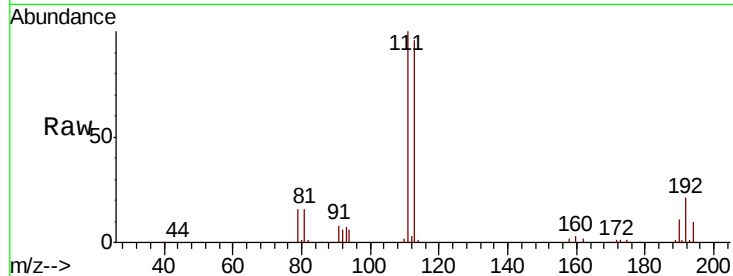




#35
 Dibromofluoromethane
 Concen: 50.344 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051491.D
 Acq: 25 Sep 2018 18:44

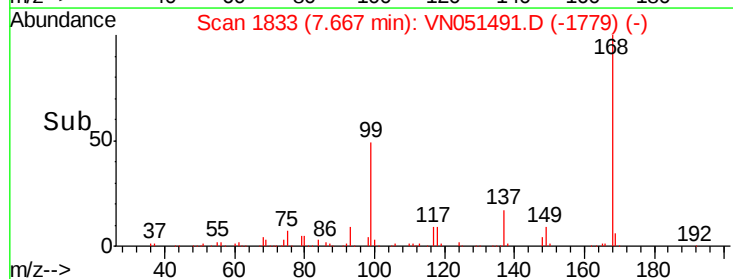
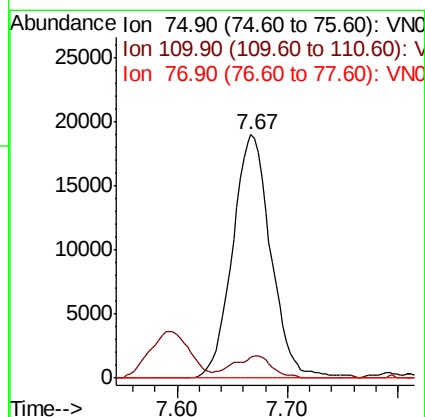
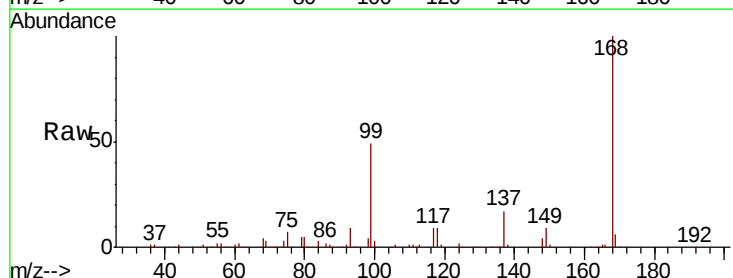
Instrument :
 MSVOA_N
 ClientSampleId :
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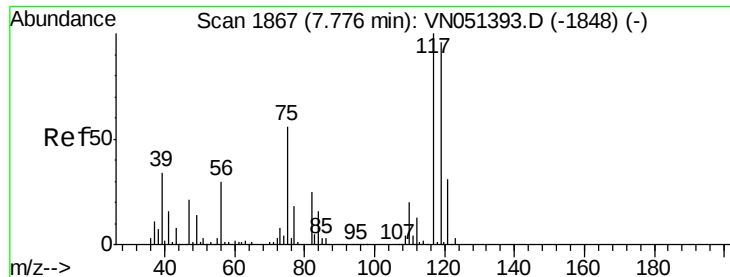
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	22.1	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.895 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051491.D
 Acq: 25 Sep 2018 18:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.956 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampled :

TRIP-BLANK

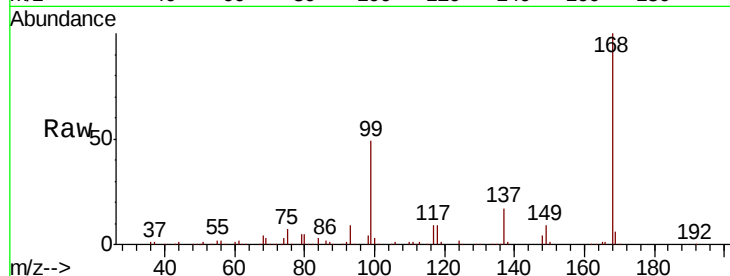
Tot Ion:117 Resp: 60843

Ion Ratio Lower Upper

117 100

119 5.8 76.9 115.3#

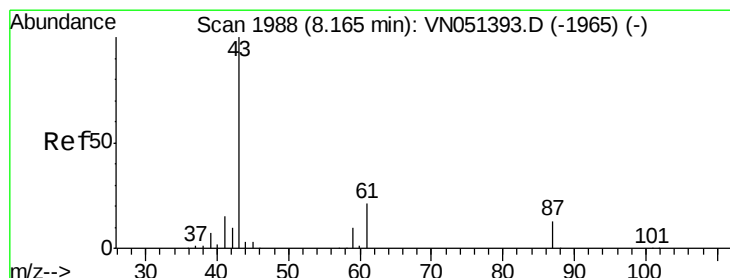
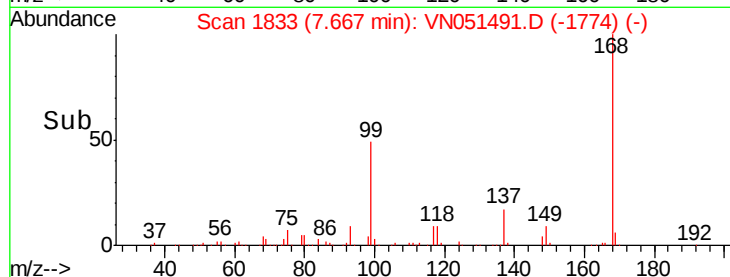
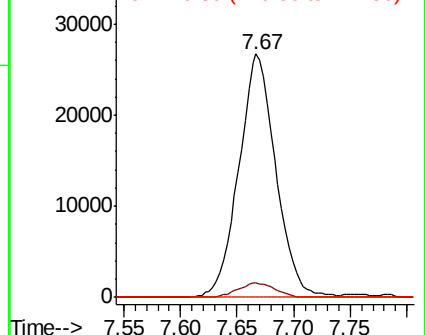
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 0.233 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

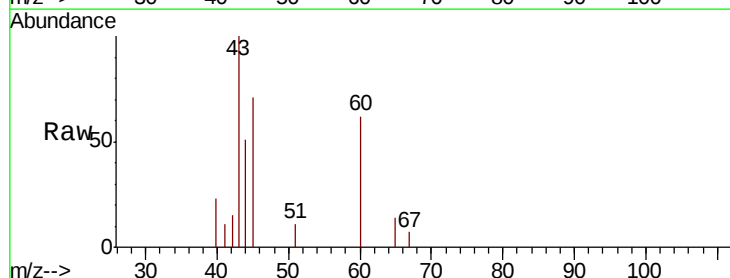
Tgt Ion: 43 Resp: 2842

Ion Ratio Lower Upper

43 100

61 0.0 16.8 25.2#

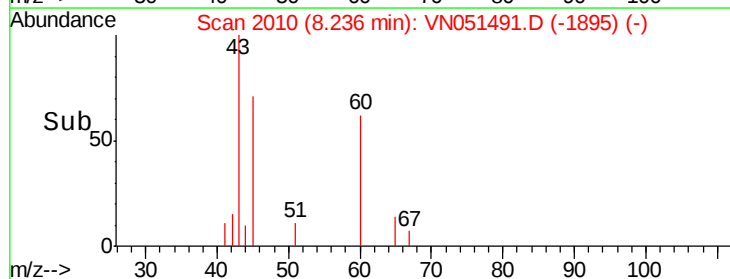
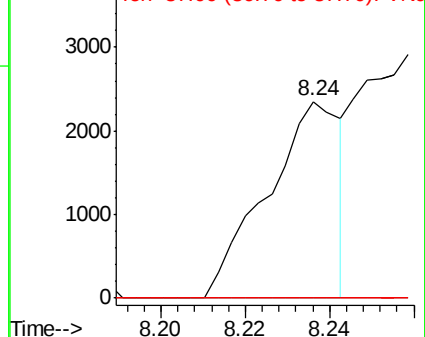
87 0.0 10.7 16.1#

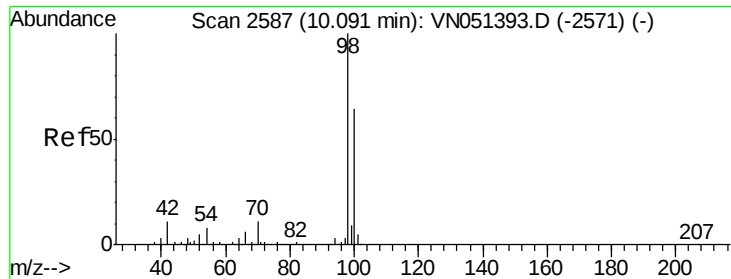


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 46.958 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

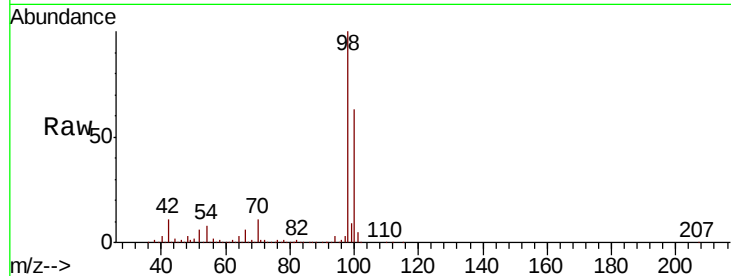
TRIP-BLANK

Tot Ion: 98 Resp: 1433155

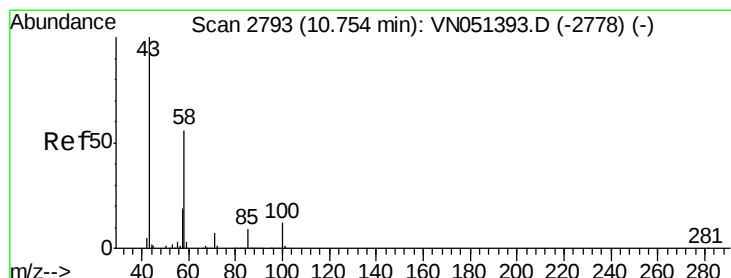
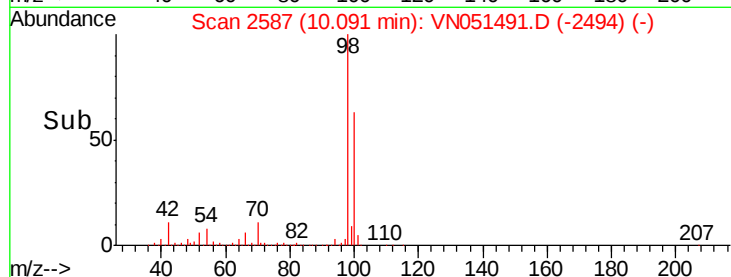
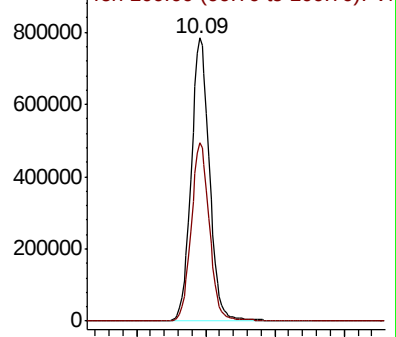
Ion Ratio Lower Upper

98 100

100 62.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)



#59

2-Hexanone

Concen: 0.476 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN051491.D

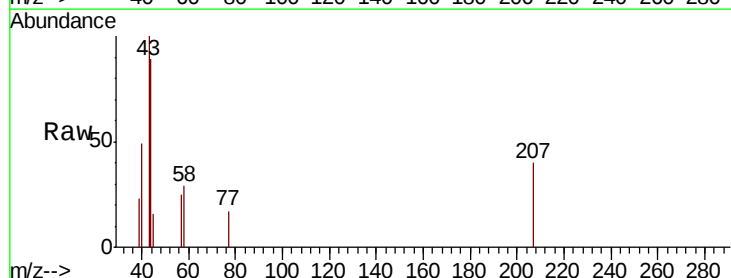
Acq: 25 Sep 2018 18:44

Tgt Ion: 43 Resp: 2072

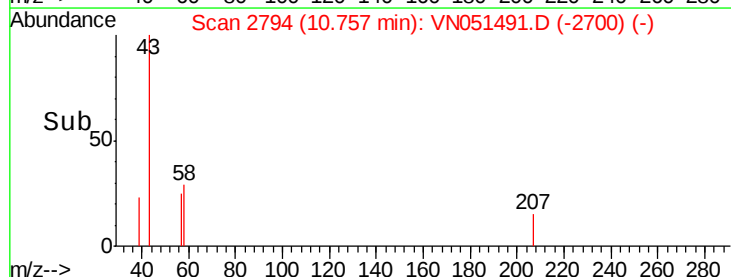
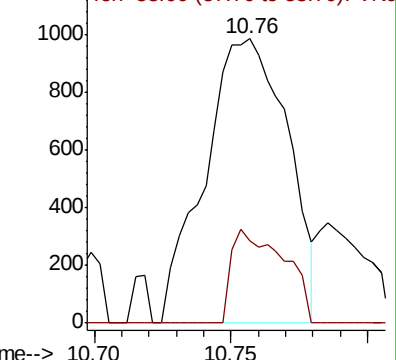
Ion Ratio Lower Upper

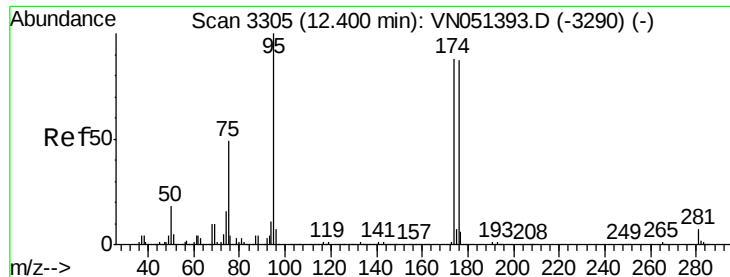
43 100

58 20.7 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2778) (-)





#62

4-Bromofluorobenzene

Concen: 37.784 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

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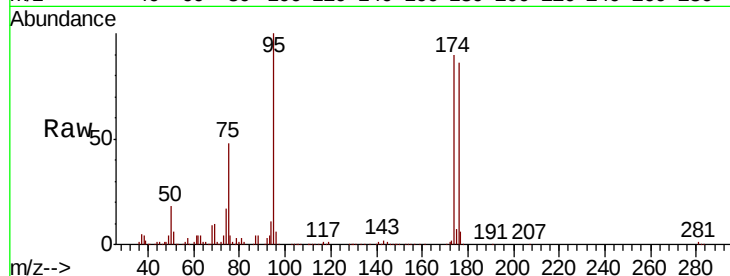
Tot Ion: 95 Resp: 373049

Ion Ratio Lower Upper

95 100

174 90.7 0.0 181.6

176 88.2 0.0 176.4



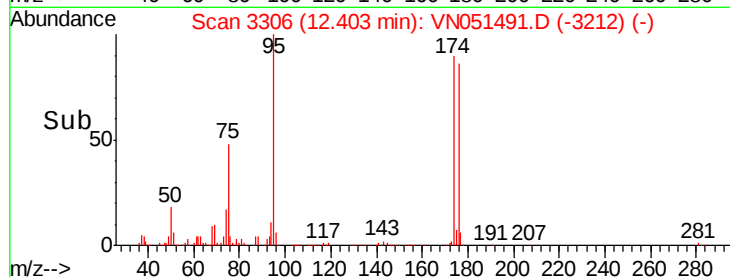
Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

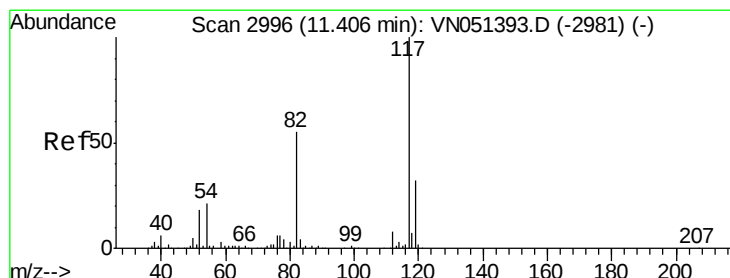
Time-->

12.30 12.40 12.50



Time-->

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

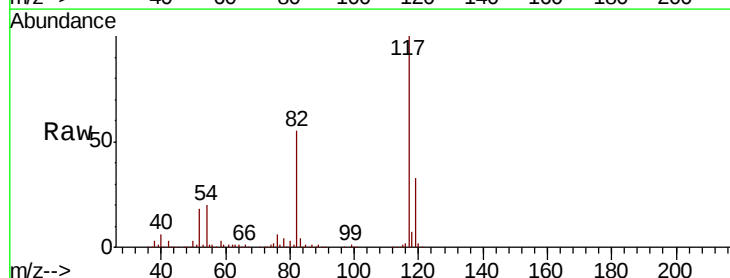
Tgt Ion: 117 Resp: 834530

Ion Ratio Lower Upper

117 100

82 54.9 44.2 66.2

119 33.1 25.9 38.9



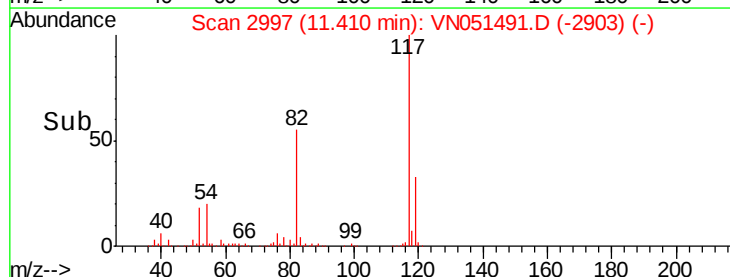
Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

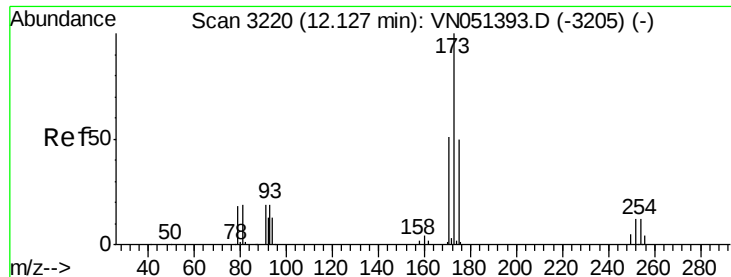
Time-->

11.30 11.40 11.50



Time-->

11.30 11.40 11.50



#71

Bromoform

Concen: 0.528 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

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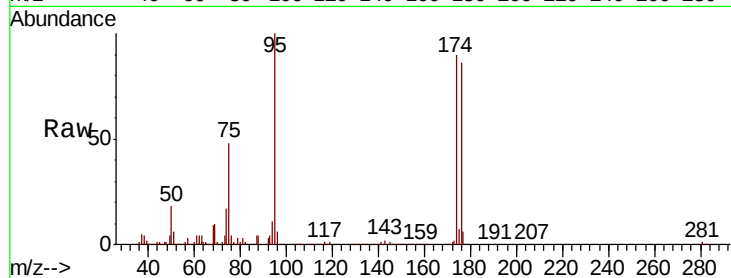
Tot Ion:173 Resp: 2923

Ion Ratio Lower Upper

173 100

175 726.5 24.8 74.3#

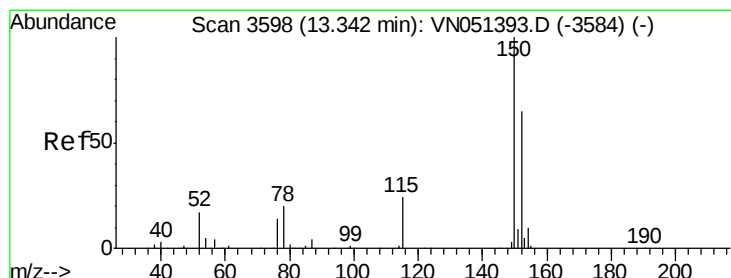
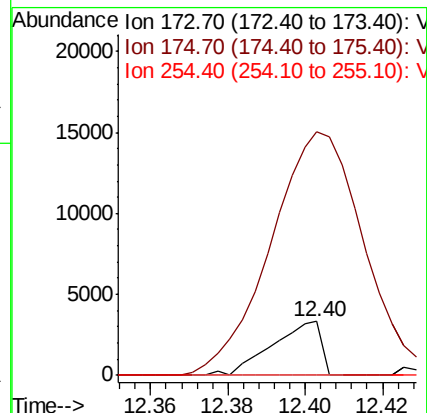
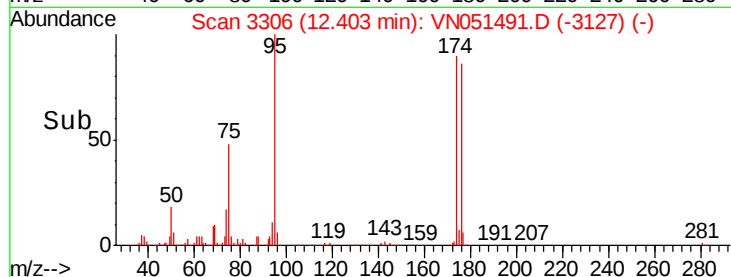
254 0.0 0.2 0.2#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

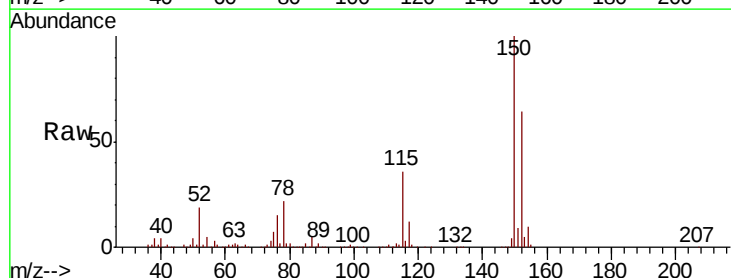
Tgt Ion:152 Resp: 295698

Ion Ratio Lower Upper

152 100

115 56.4 28.3 84.9

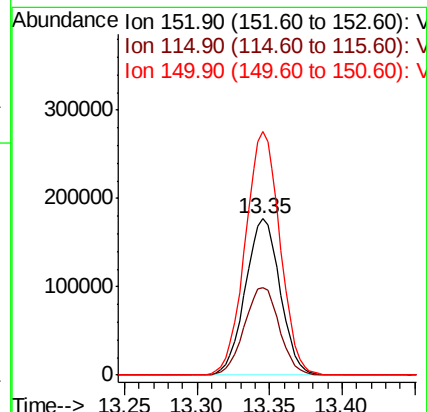
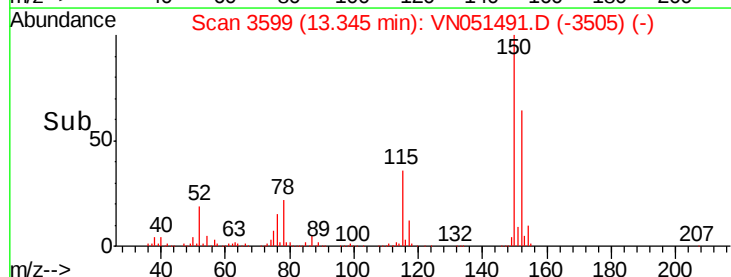
150 155.4 0.0 353.6

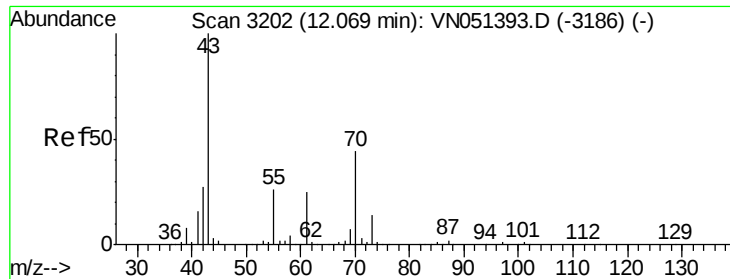


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.249 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampled :

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Tot Ion: 43 Resp: 1557

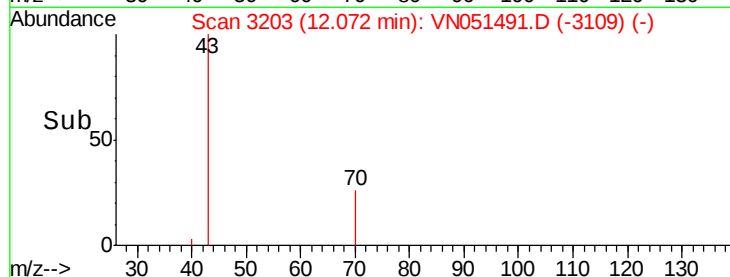
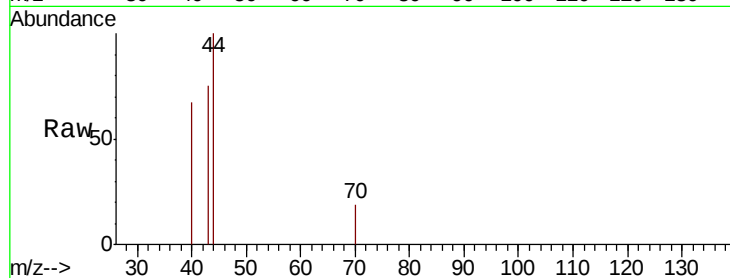
Ion Ratio Lower Upper

43 100

70 7.1 35.0 52.4#

55 0.0 21.4 32.2#

61 0.0 19.8 29.6#

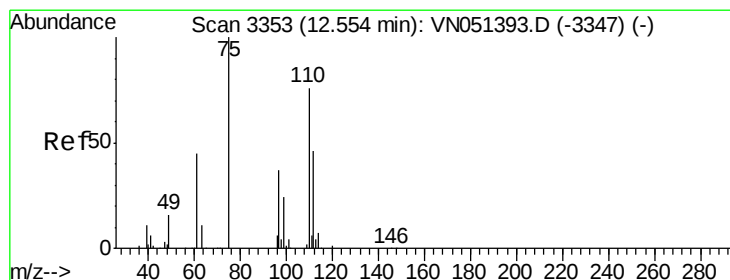
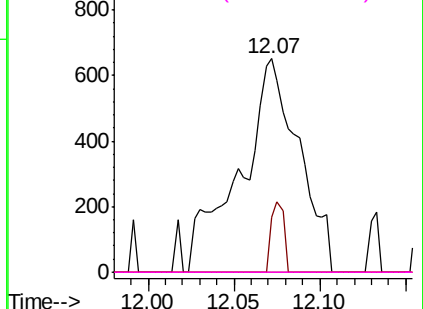


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 37.268 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051491.D

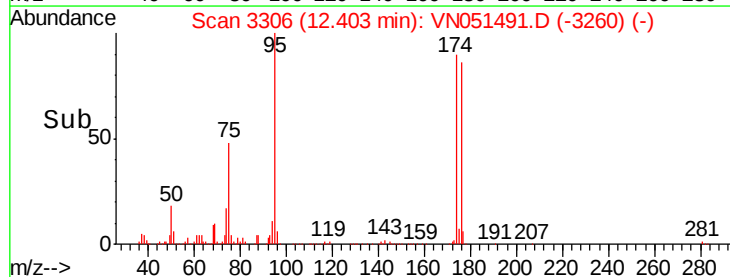
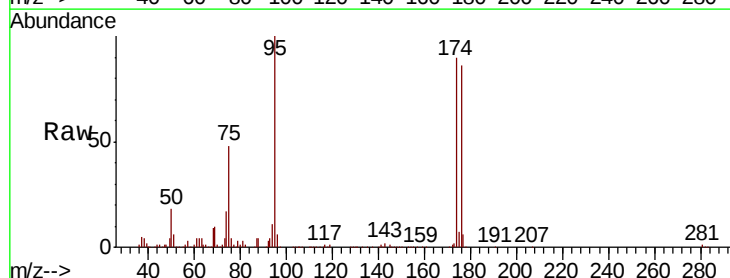
Acq: 25 Sep 2018 18:44

Tgt Ion: 75 Resp: 182939

Ion Ratio Lower Upper

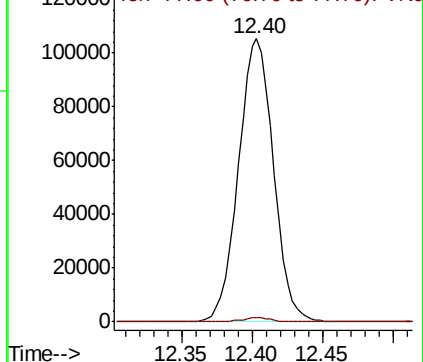
75 100

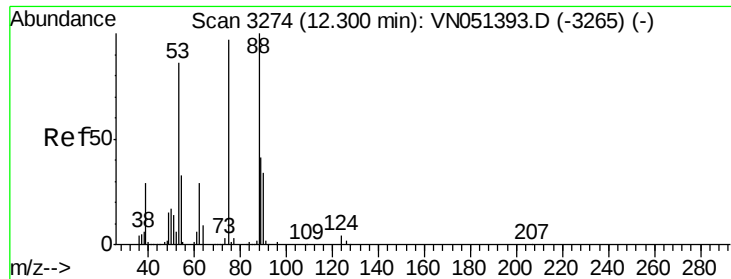
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

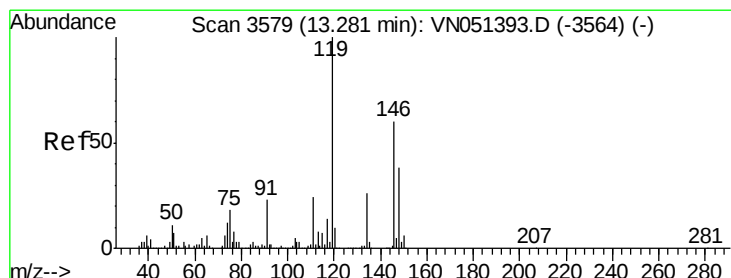
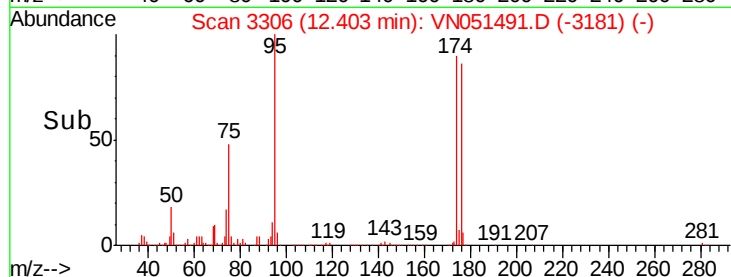
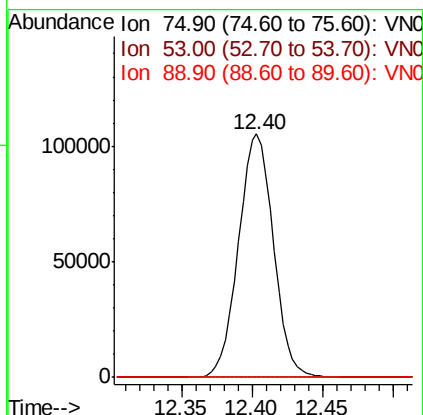
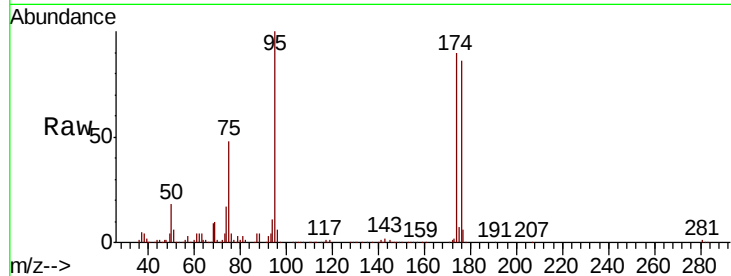




#81
trans-1,4-Dichloro-2-butene
Concen: 114.596 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051491.D
Acq: 25 Sep 2018 18:44

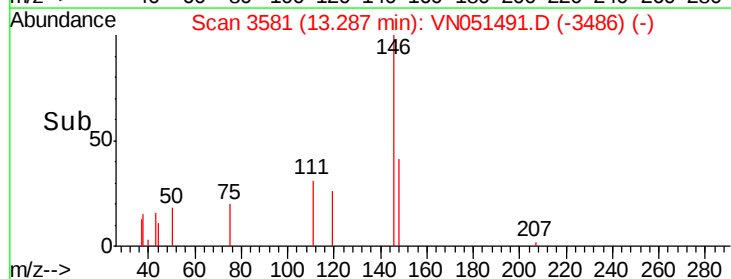
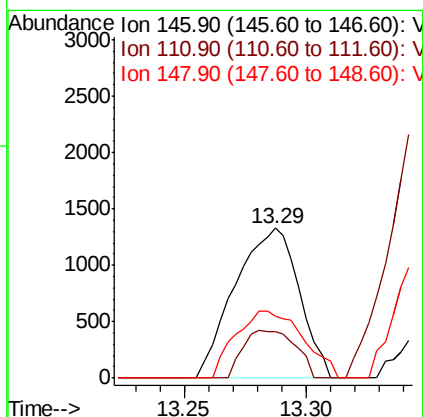
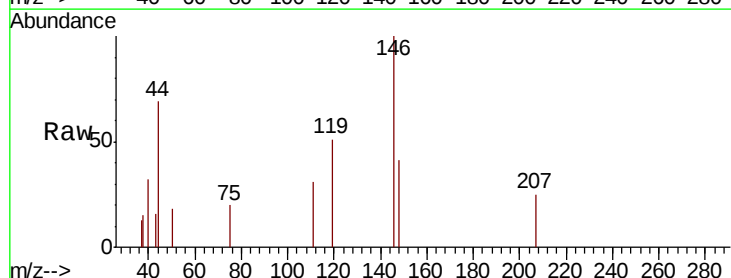
Instrument :
MSVOA_N
ClientSampled :
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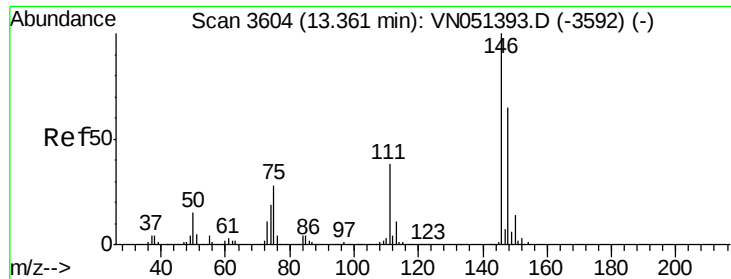
Tot Ion: 75 Resp: 182939
Ion Ratio Lower Upper
75 100
53 0.1 73.9 110.9#
89 0.0 36.7 55.1#



#87
1,3-Dichlorobenzene
Concen: 0.222 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.01 min
Lab File: VN051491.D
Acq: 25 Sep 2018 18:44

Tgt Ion: 146 Resp: 2421
Ion Ratio Lower Upper
146 100
111 25.9 19.7 59.1
148 47.2 31.9 95.7

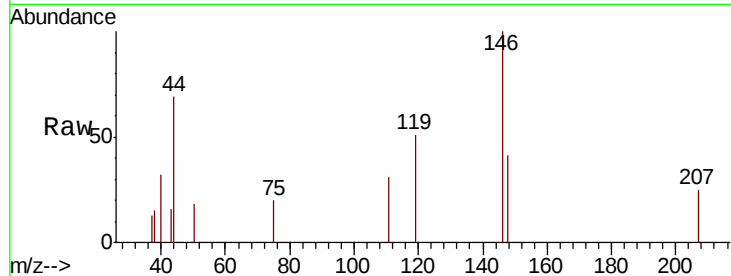




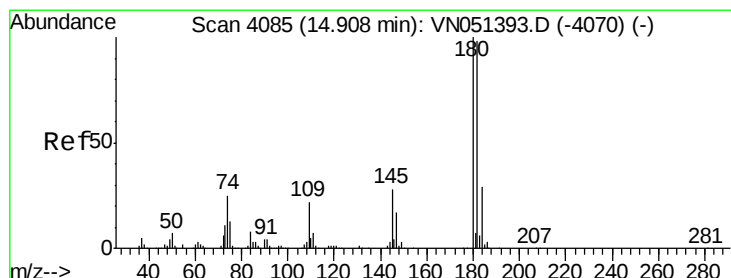
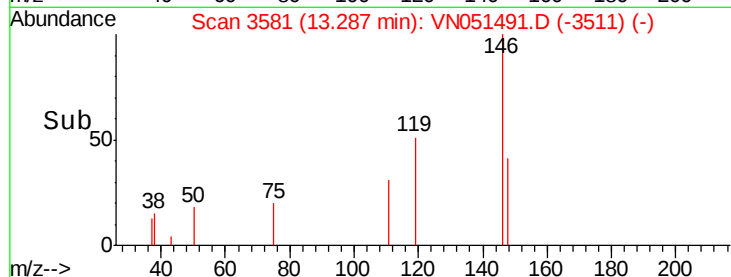
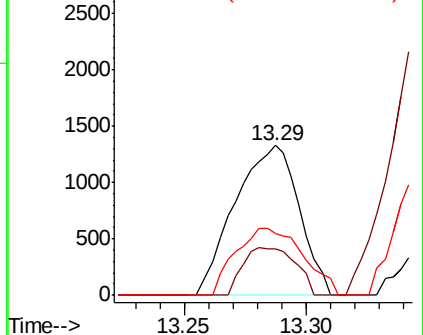
#88
 1,4-Dichlorobenzene
 Concen: 0.230 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.07 min
 Lab File: VN051491.D
 Acq: 25 Sep 2018 18:44

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIP-BLANK

Tot Ion:146 Resp: 2421
 Ion Ratio Lower Upper
 146 100
 111 25.9 19.1 57.1
 148 47.2 32.5 97.5

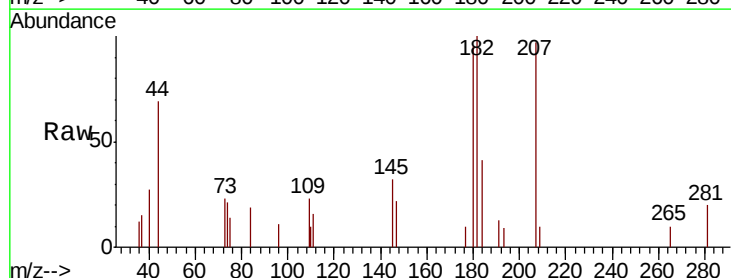


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

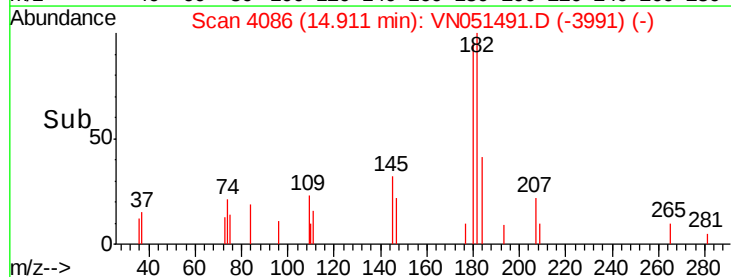
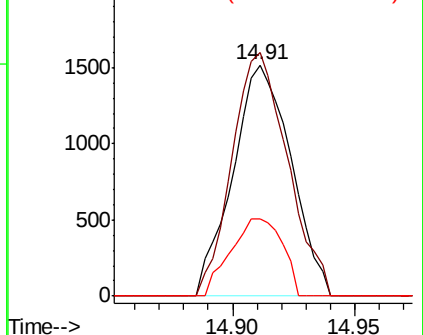


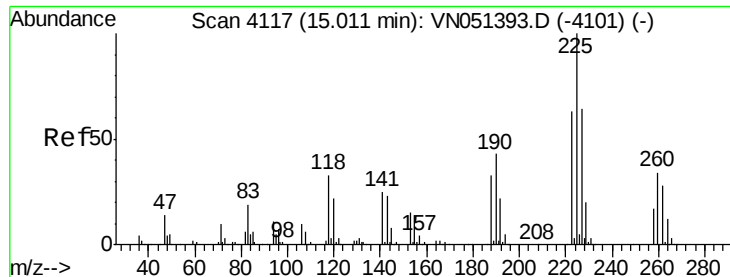
#93
 1,2,4-Trichlorobenzene
 Concen: 6.369 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051491.D
 Acq: 25 Sep 2018 18:44

Tgt Ion:180 Resp: 2513
 Ion Ratio Lower Upper
 180 100
 182 100.5 48.5 145.6
 145 29.7 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.272 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.01 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

Instrument :

MSVOA_N

ClientSampleId :

TRIP-BLANK

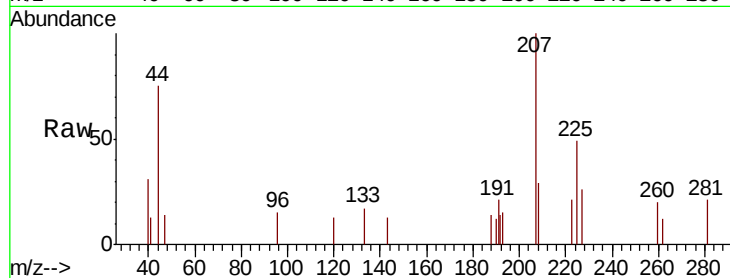
Tot Ion:225 Resp: 1092

Ion Ratio Lower Upper

225 100

223 60.8 31.9 95.9

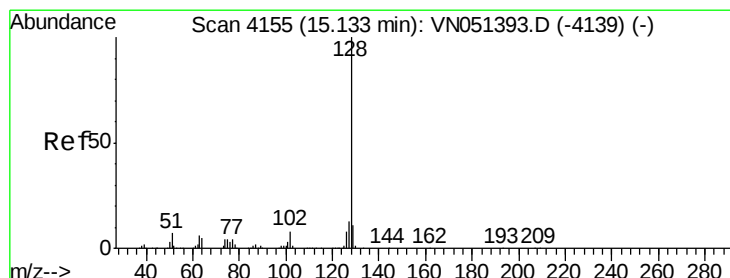
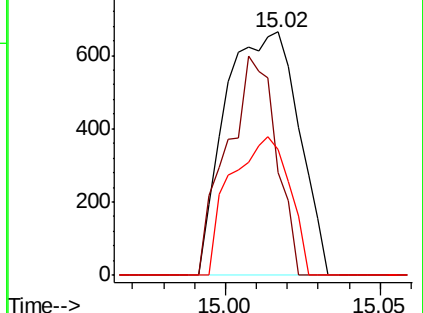
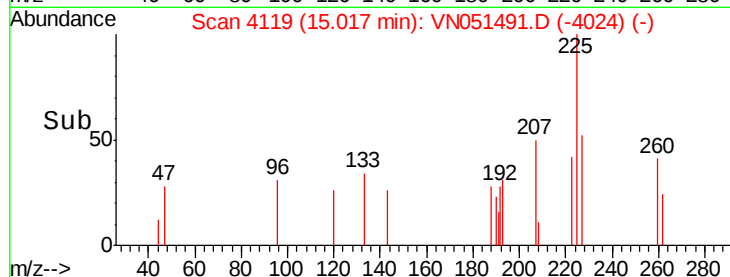
227 45.6 32.5 97.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 8.425 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051491.D

Acq: 25 Sep 2018 18:44

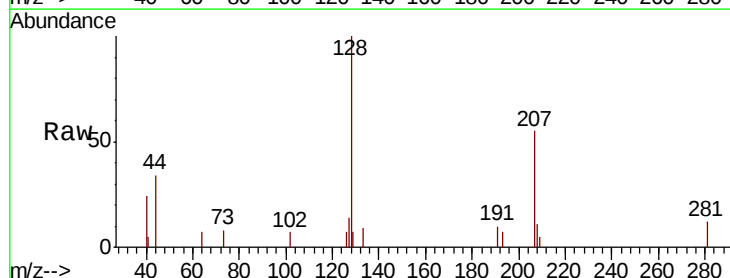
Tgt Ion:128 Resp: 4982

Ion Ratio Lower Upper

128 100

127 10.8 10.5 15.7

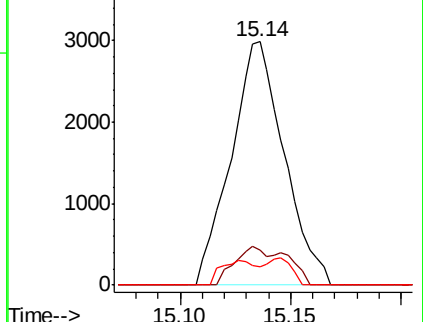
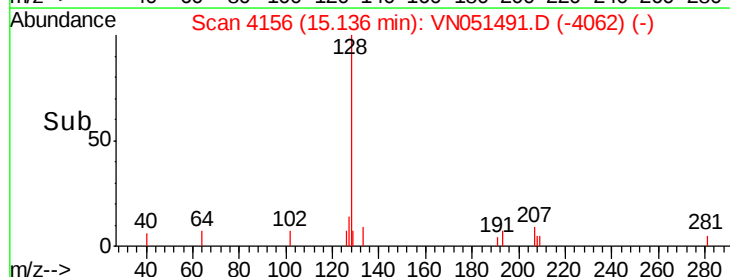
129 6.9 8.6 12.8#

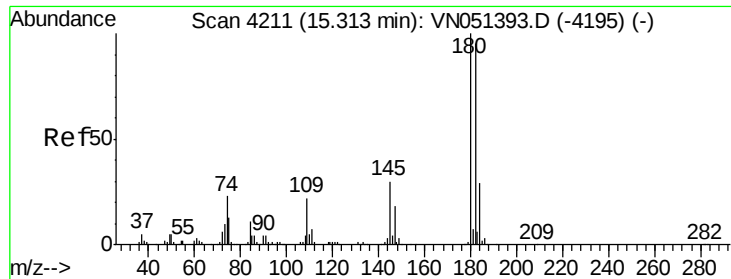


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.483 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN051491.D
 Acq: 25 Sep 2018 18:44

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
180	100		
182	124.5	47.2	141.6
145	33.8	14.6	43.8

