

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051771.D
 Acq On : 10 Oct 2018 00:44
 Operator : MD\SY
 Sample : J5201-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 EO-02-100818-A

Quant Time: Oct 10 03:37:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

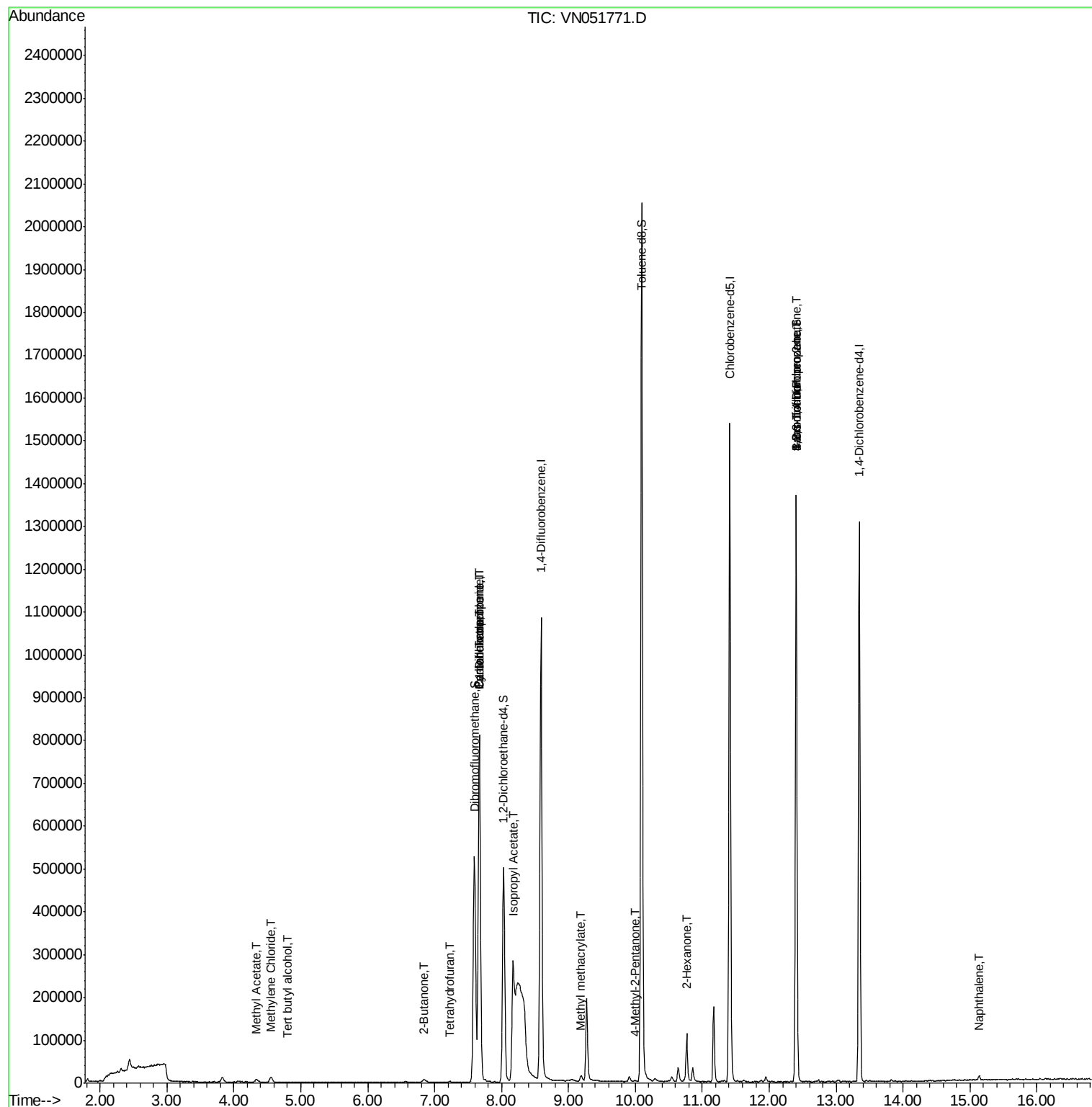
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	715221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1038510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	945202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	365071	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	427299	45.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.44%	
35) Dibromofluoromethane	7.59	113	391820	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
50) Toluene-d8	10.09	98	1506757	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.40	95	427688	40.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.68%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.81	59	537	0.836	ug/l #	73
13) Acrolein	3.60	56	61	Below Cal	#	14
16) Acetone	3.83	43	17076	Below Cal		90
18) Methyl Acetate	4.33	43	12195	2.338	ug/l #	77
20) Methylene Chloride	4.56	84	9470	1.218	ug/l #	86
25) 2-Butanone	6.85	43	8329	3.053	ug/l	98
29) Tetrahydrofuran	7.23	42	1912	1.142	ug/l #	53
31) Cyclohexane	7.67	56	12963	1.011	ug/l #	37
36) 1,1-Dichloropropene	7.67	75	45612	4.202	ug/l #	49
38) Carbon Tetrachloride	7.67	117	66551	5.109	ug/l #	15
41) Methacrylonitrile	7.18	41	106	Below Cal	#	27
43) Isopropyl Acetate	8.17	43	356723	30.221	ug/l #	89
48) Methyl methacrylate	9.18	41	5903	1.094	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	1496	0.250	ug/l	94
59) 2-Hexanone	10.77	43	17463	4.299	ug/l #	58
71) Bromoform	12.40	173	3549	0.509	ug/l #	1
74) N-amyl acetate	12.08	43	164	Below Cal	#	29
75) 1,1,2,2-Tetrachloroethane	12.41	83	387	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	231211	51.058	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	231211	116.419	ug/l #	14
95) Naphthalene	15.14	128	9603	0.758	ug/l	98

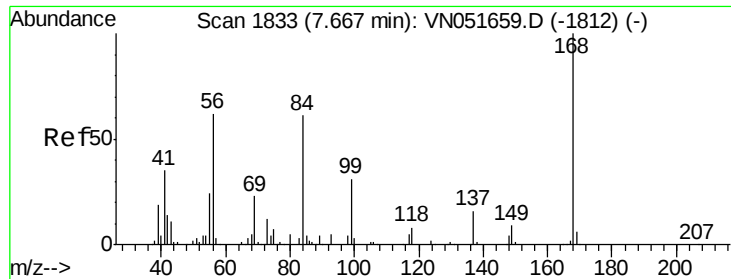
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

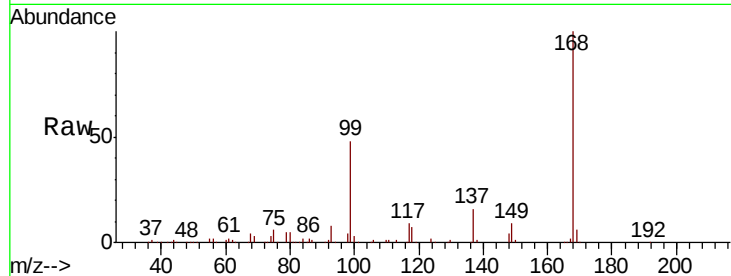
EO-02-100818-A

Tot Ion:168 Resp: 715221

Ion Ratio Lower Upper

168 100

99 47.9 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051771.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051771.D (-1740) (-)

7.67

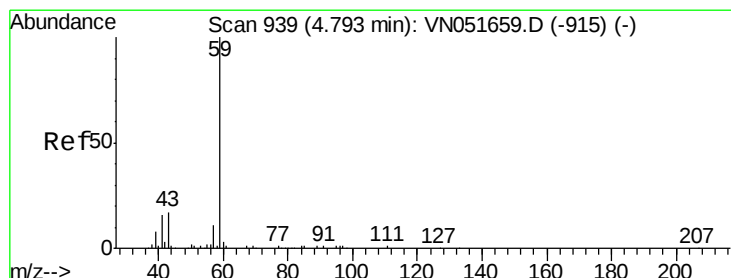
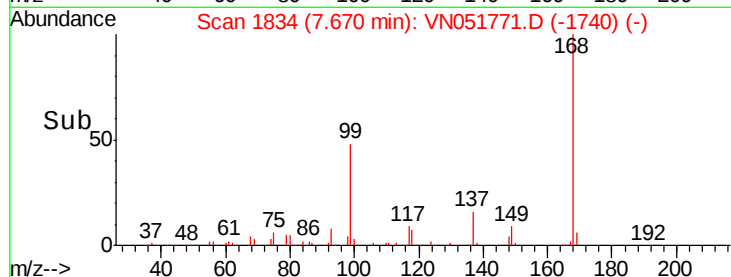
300000

200000

100000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.836 ug/l

RT: 4.81 min Scan# 943

Delta R.T. 0.01 min

Lab File: VN051771.D

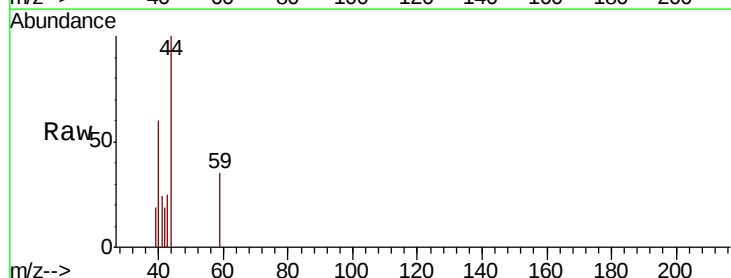
Acq: 10 Oct 2018 00:44

Tgt Ion: 59 Resp: 537

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN051771.D (-846) (-)

Ion 57.00 (56.70 to 57.70): VN051771.D (-846) (-)

4.81

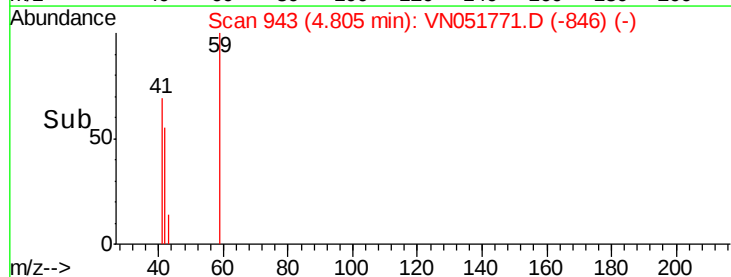
300

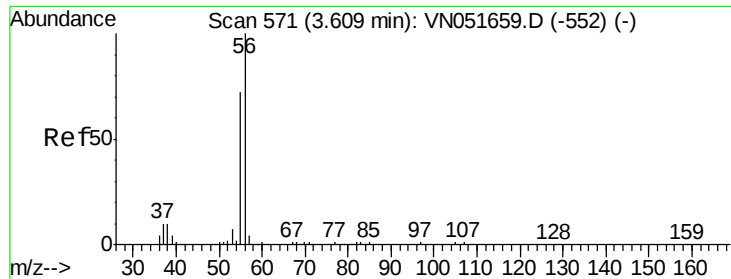
200

100

0

Time--> 4.76 4.78 4.80 4.82





#13

Acrolein

Concen: Below Cal

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

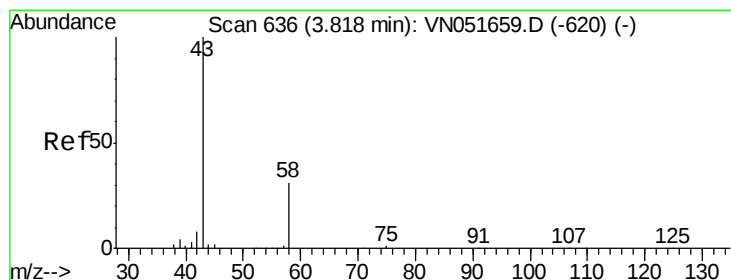
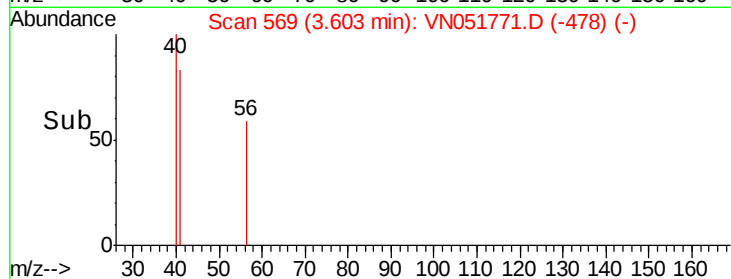
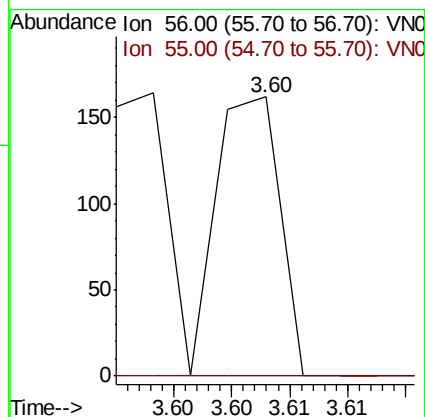
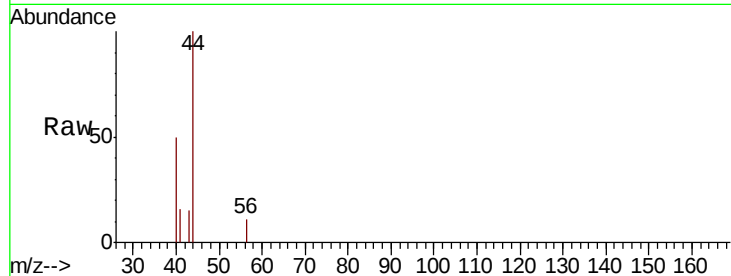
EO-02-100818-A

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051771.D

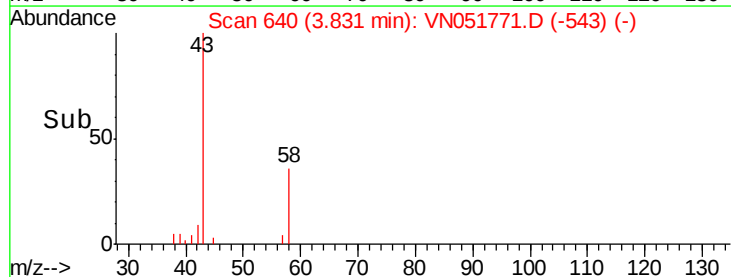
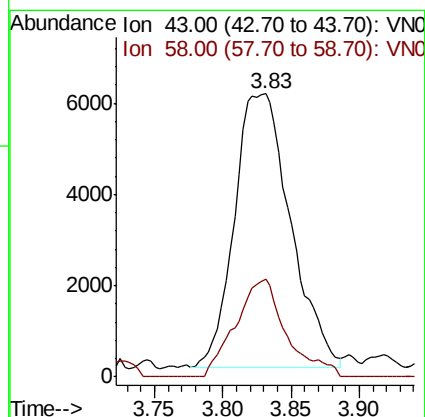
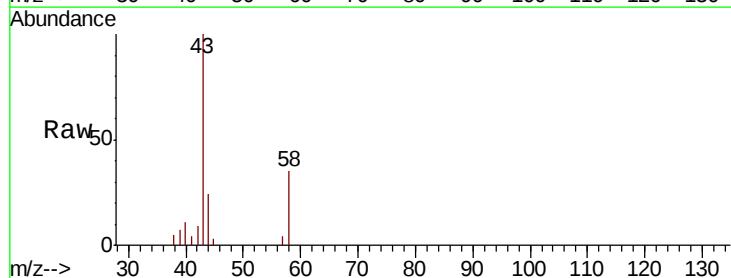
Acq: 10 Oct 2018 00:44

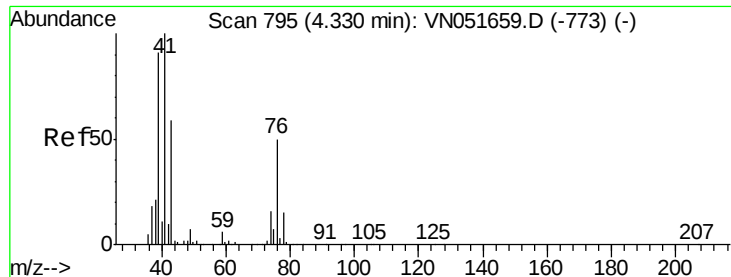
Tgt Ion: 43 Resp: 17076

Ion Ratio Lower Upper

43 100

58 35.9 24.3 36.5

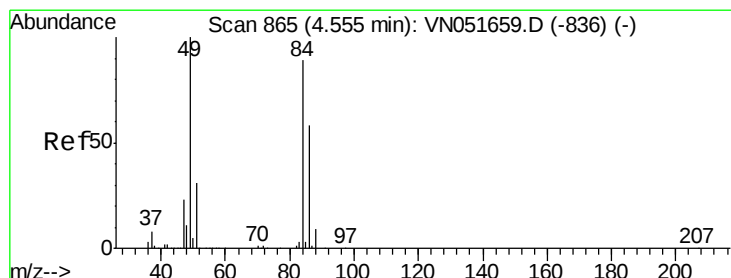
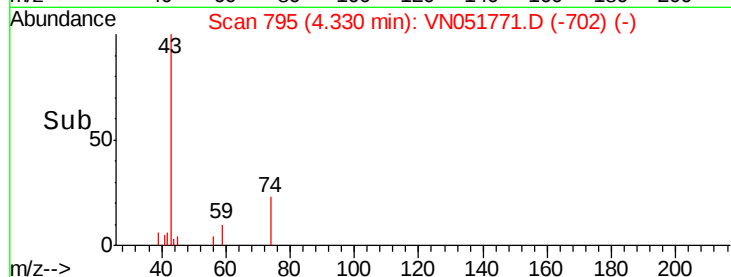
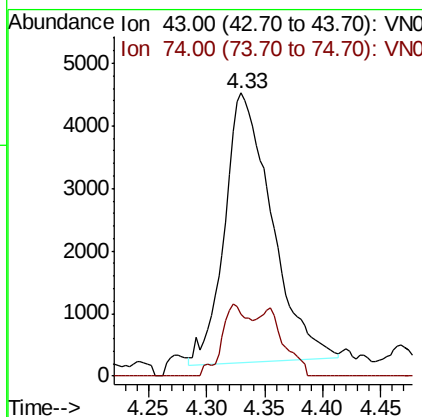
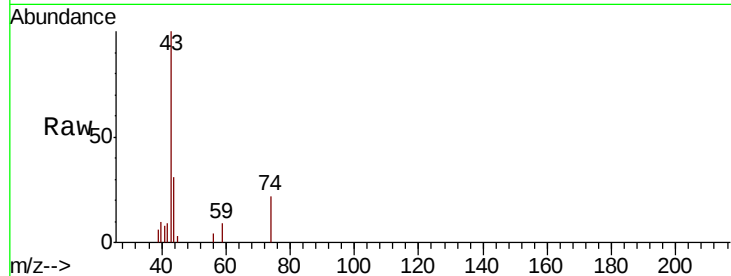




#18
Methvl Acetate
Concen: 2.338 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

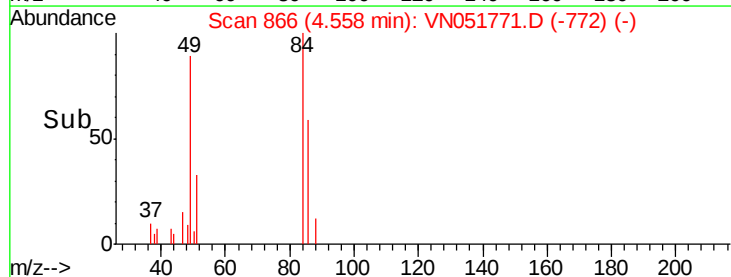
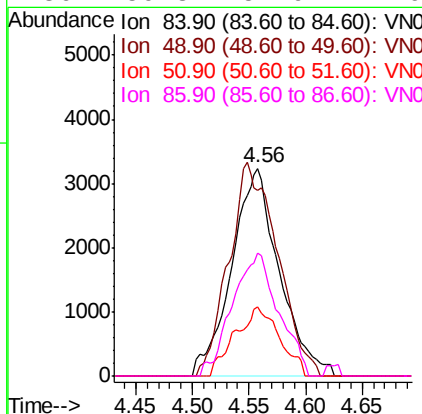
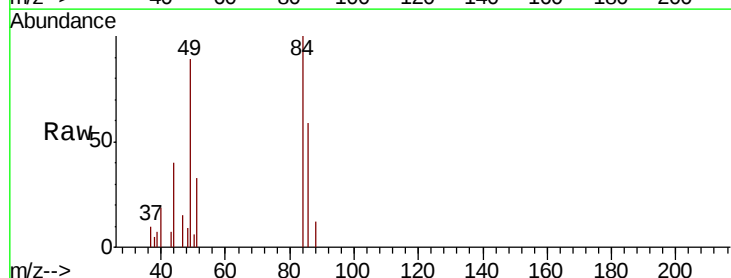
Instrument :
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EO-02-100818-A

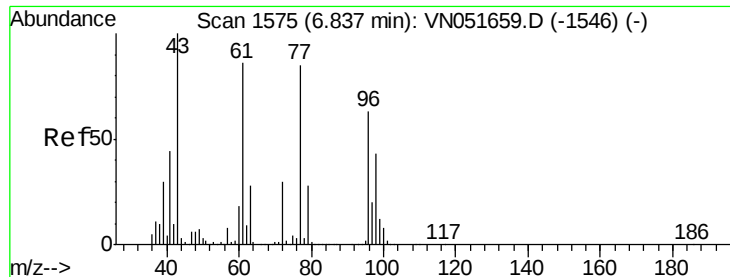
Tot Ion: 43 Resp: 12195
Ion Ratio Lower Upper
43 100
74 15.3 21.5 32.3#



#20
Methylene Chloride
Concen: 1.218 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Tgt Ion: 84 Resp: 9470
Ion Ratio Lower Upper
84 100
49 89.5 89.5 134.3#
51 33.3 27.4 41.0
86 59.3 51.9 77.9





#25

2-Butanone

Concen: 3.053 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

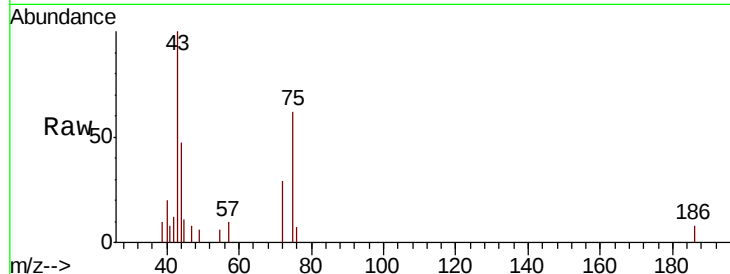
EO-02-100818-A

Tot Ion: 43 Resp: 8329

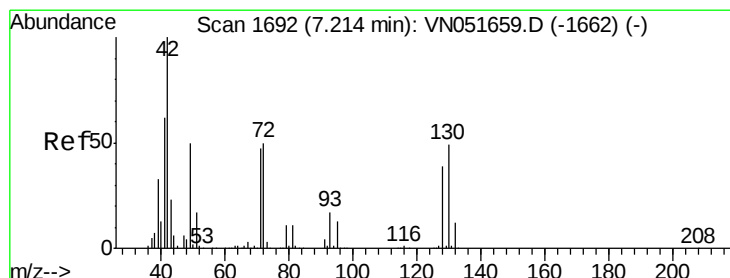
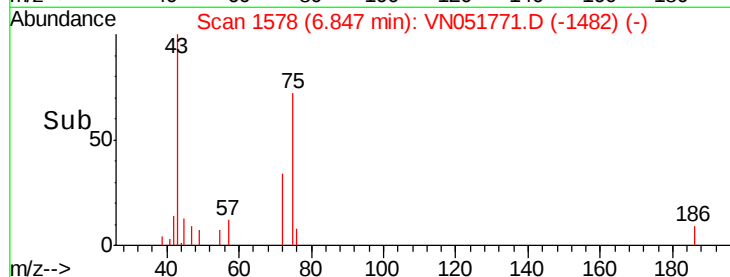
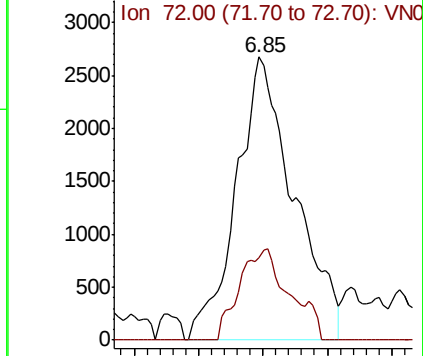
Ion Ratio Lower Upper

43 100

72 29.0 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1546) (-)



#29

Tetrahydrofuran

Concen: 1.142 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

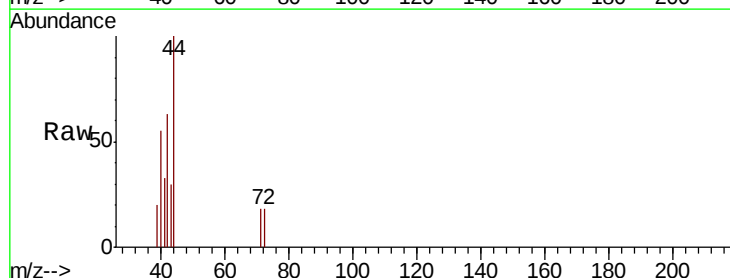
Tgt Ion: 42 Resp: 1912

Ion Ratio Lower Upper

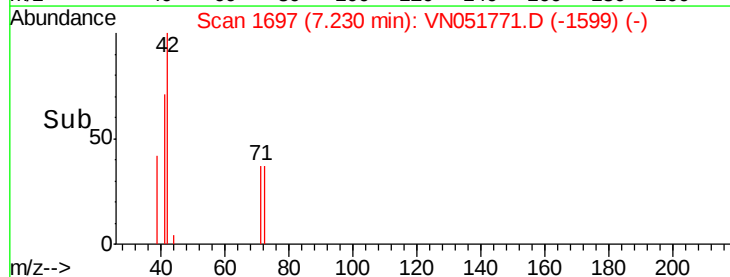
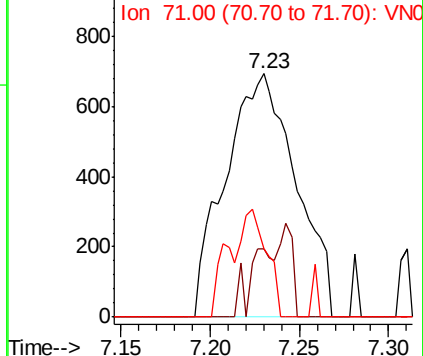
42 100

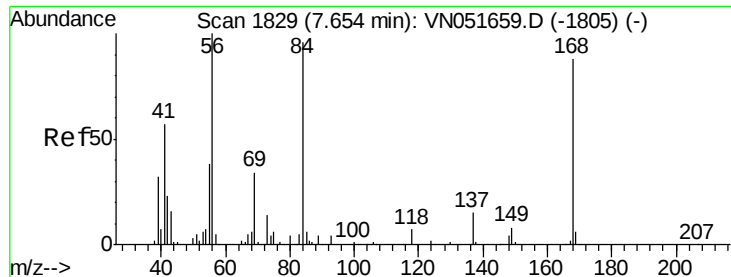
72 10.4 40.1 60.1#

71 23.3 38.0 57.0#



Abundance Ion 42.00 (41.70 to 42.70): VN051659.D (-1662) (-)

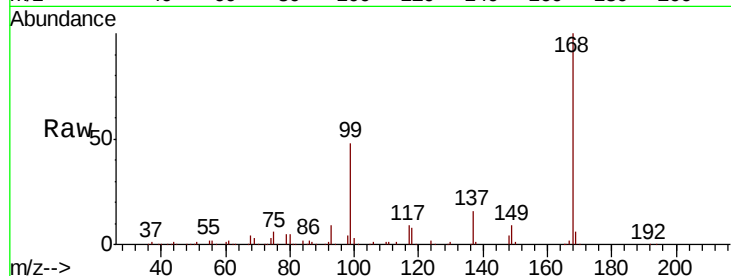




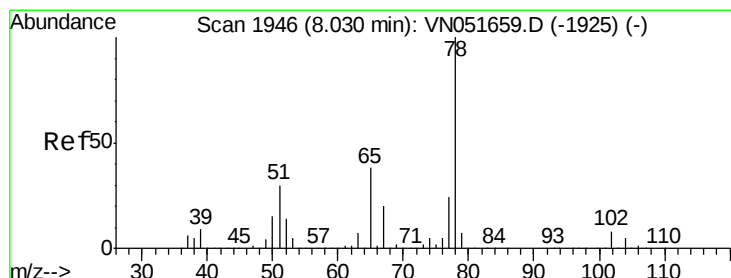
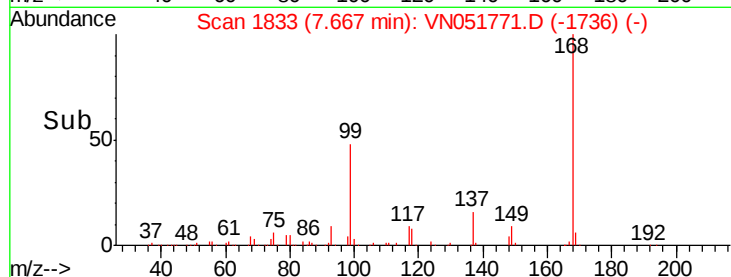
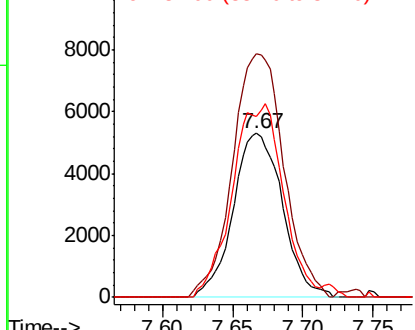
#31
Cyclohexane
Concen: 1.011 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-A

Tot Ion: 56 Resp: 12963
Ion Ratio Lower Upper
56 100
69 148.4 27.5 41.3#
84 110.0 76.7 115.1

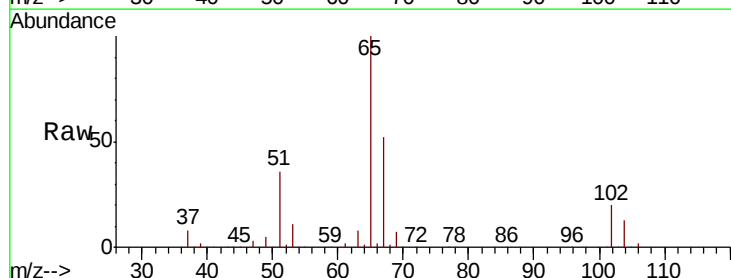


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

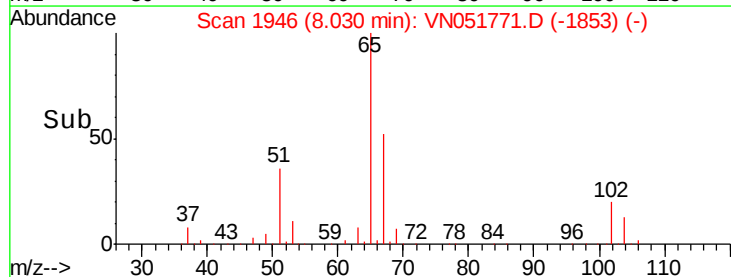
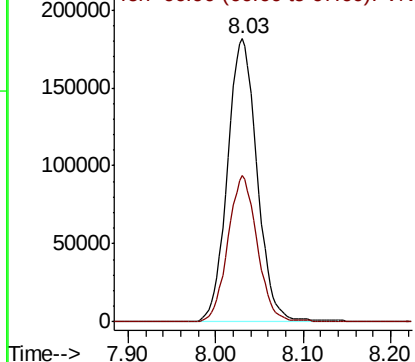


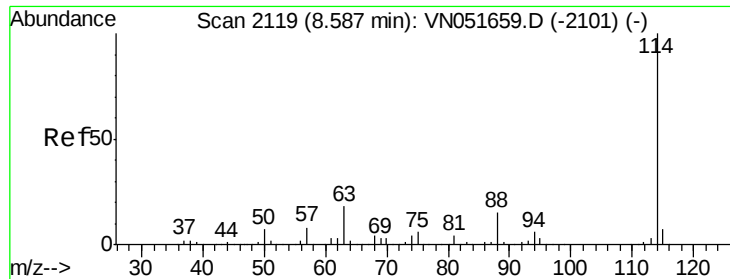
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Tgt Ion: 65 Resp: 427299
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

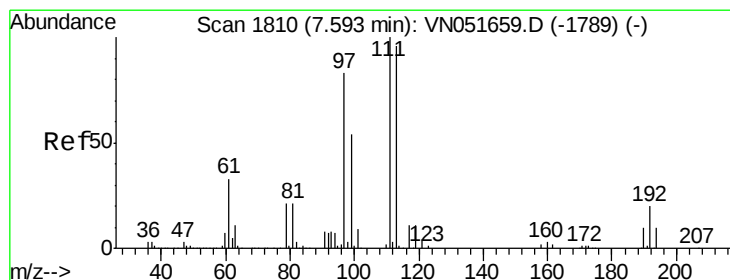
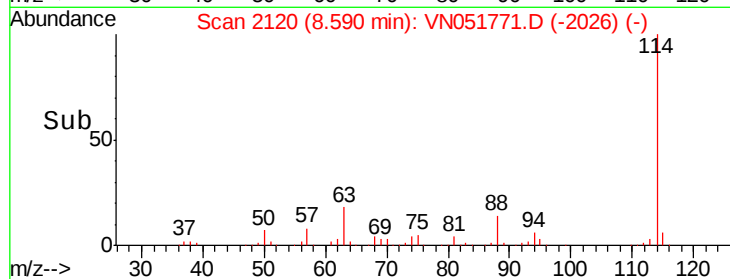
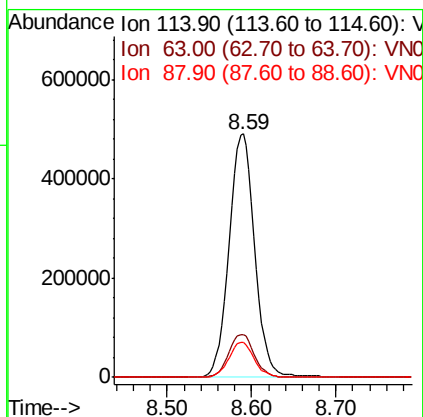
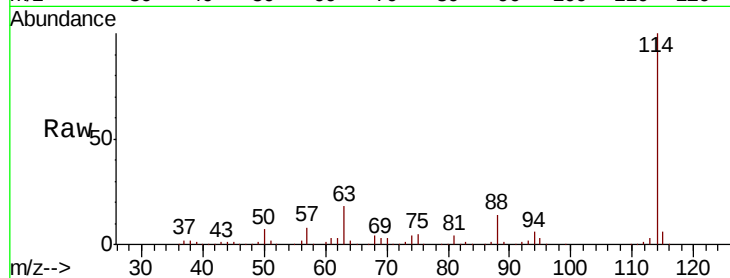




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051771.D
 Acq: 10 Oct 2018 00:44

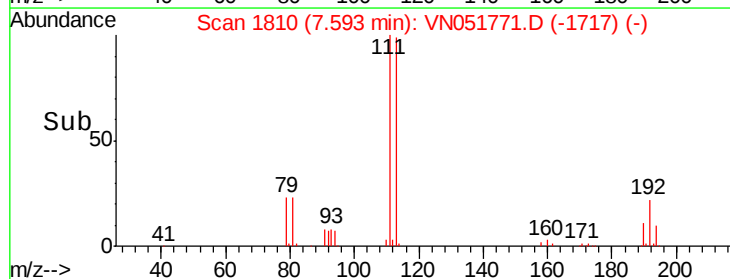
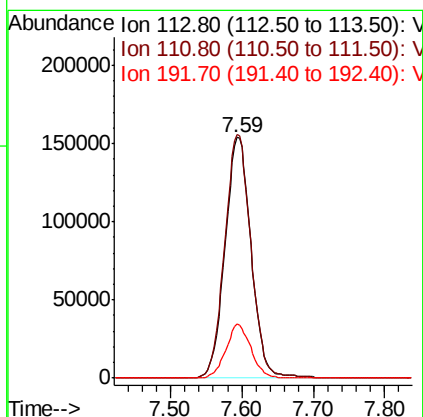
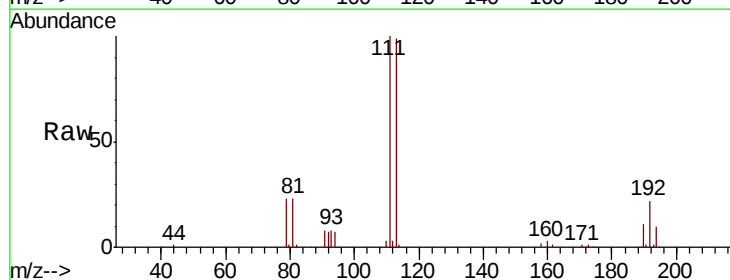
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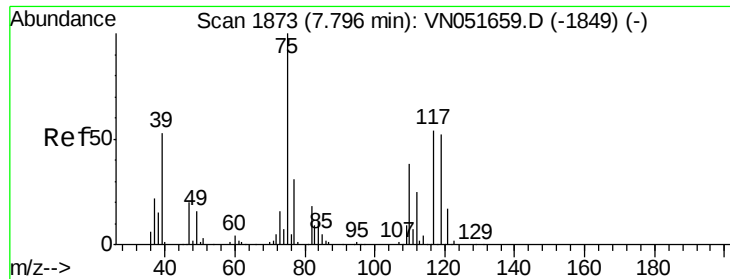
Tot Ion:114 Resp: 1038510
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 36.2
 88 14.3 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051771.D
 Acq: 10 Oct 2018 00:44

Tgt Ion:113 Resp: 391820
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.8
 192 21.3 16.5 24.7





#36

1,1-Dichloropropene

Concen: 4.202 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-A

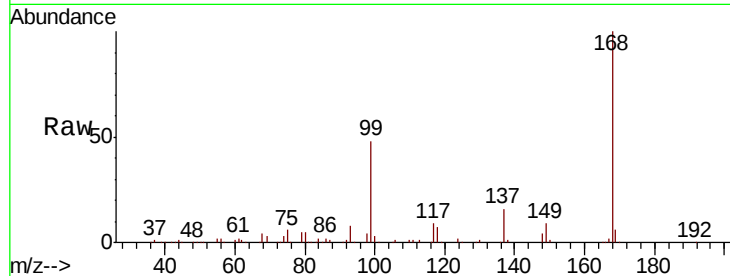
Tot Ion: 75 Resp: 45612

Ion Ratio Lower Upper

75 100

110 10.7 19.3 57.8#

77 0.0 24.7 37.1#



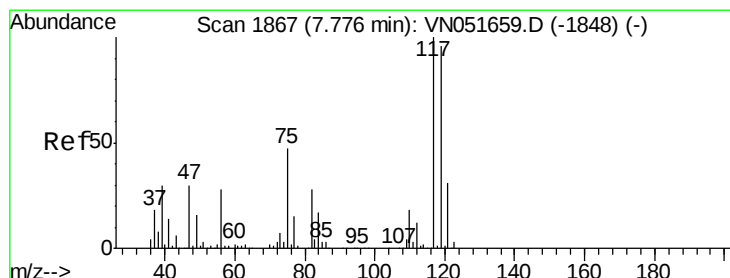
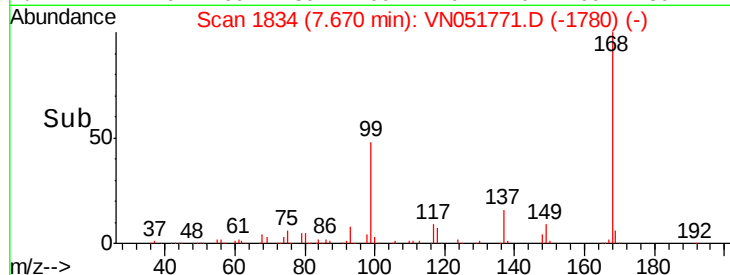
Abundance Ion 74.90 (74.60 to 75.60): VN051659.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN051659.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN051659.D (-1849) (-)

7.67

Time-->



#38

Carbon Tetrachloride

Concen: 5.109 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

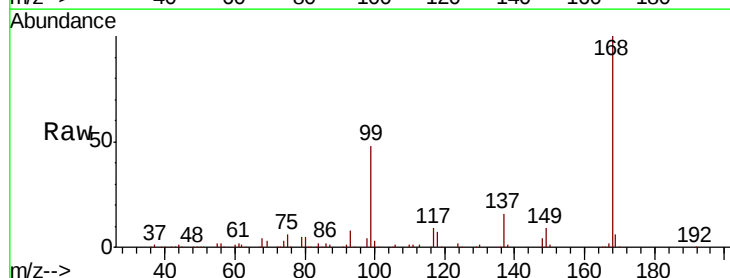
Tgt Ion: 117 Resp: 66551

Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.6#

121 0.0 25.0 37.6#



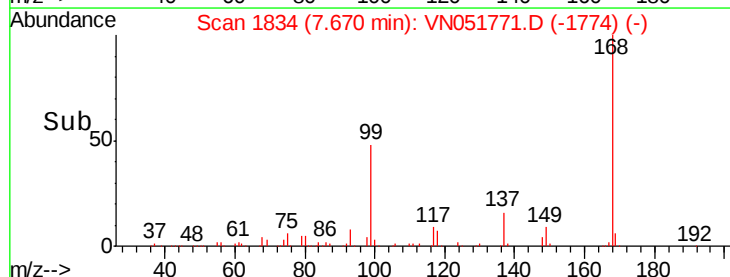
Abundance Ion 116.80 (116.50 to 117.50): VN051659.D (-1848) (-)

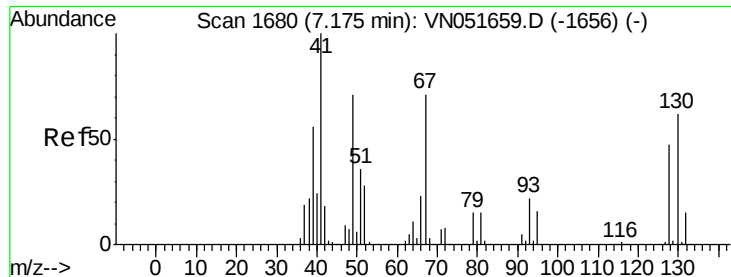
Ion 118.80 (118.50 to 119.50): VN051659.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051659.D (-1848) (-)

7.67

Time-->





#41

Methacrylonitrile

Concen: Below Cal

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-A

Tot Ion: 41 Resp: 106

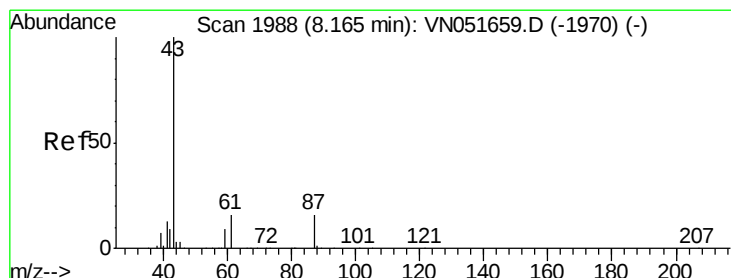
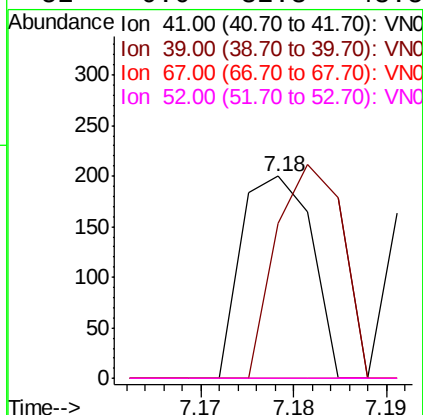
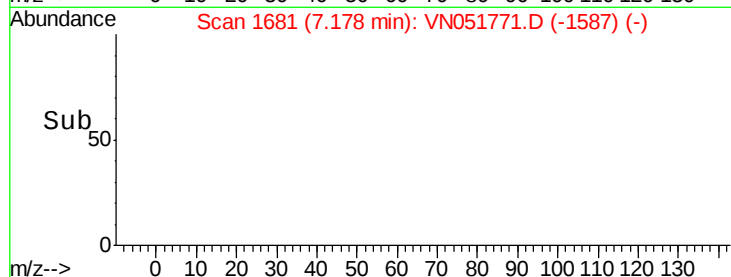
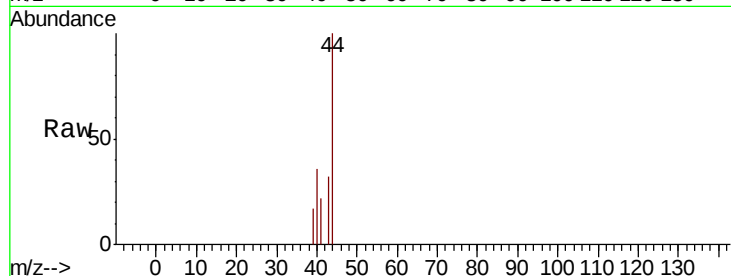
Ion Ratio Lower Upper

41 100

39 99.1 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#



#43

Isopropyl Acetate

Concen: 30.221 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

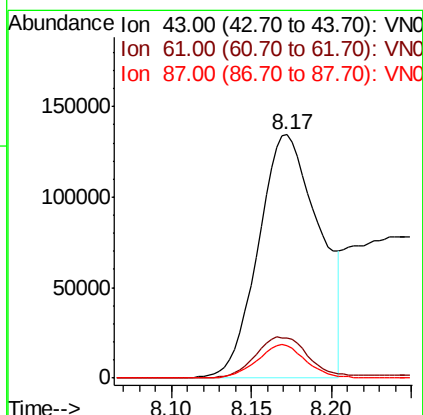
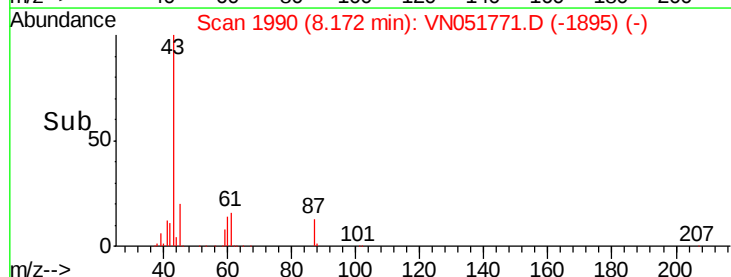
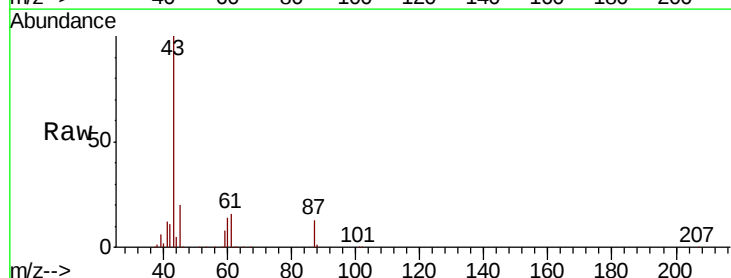
Tgt Ion: 43 Resp: 356723

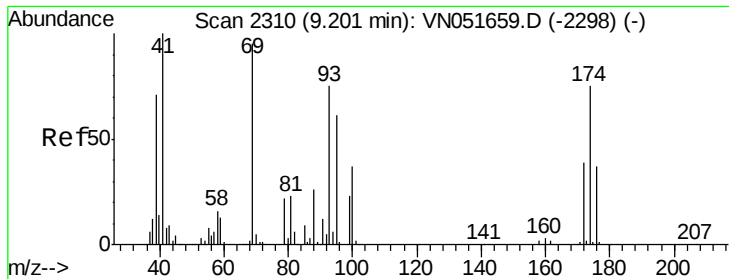
Ion Ratio Lower Upper

43 100

61 14.9 15.8 23.6#

87 10.9 12.6 19.0#

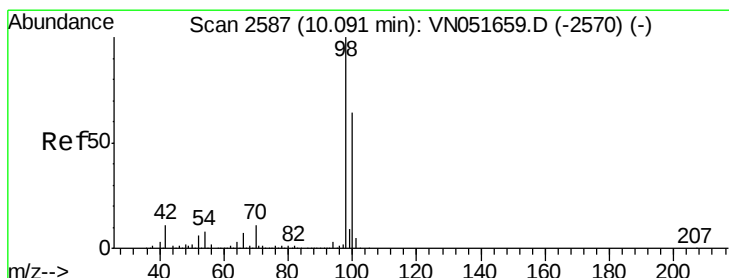
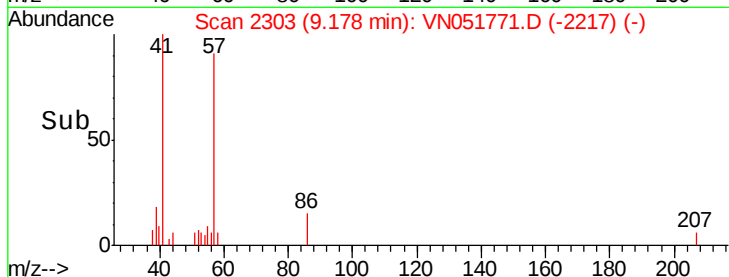
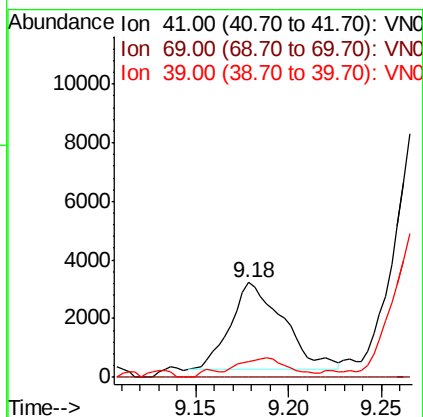
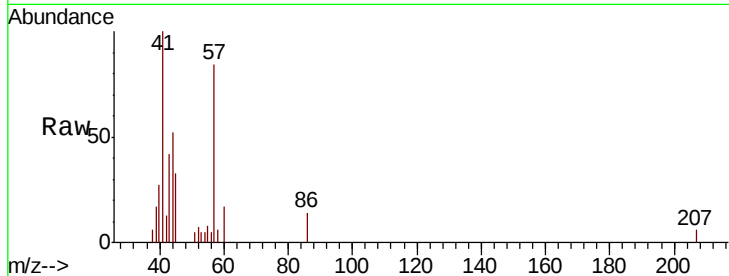




#48
Methvl methacrylate
Concen: 1.094 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

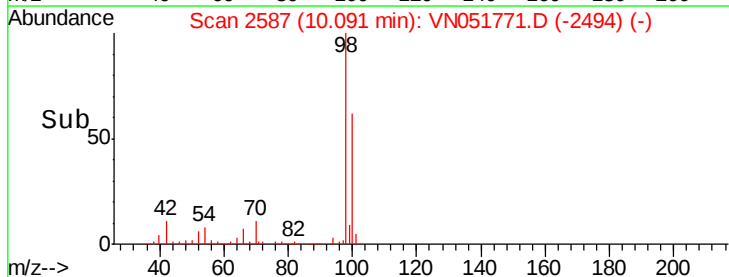
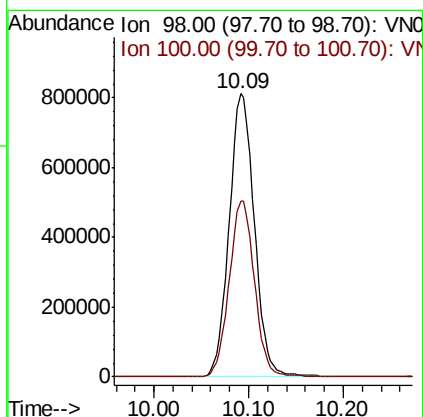
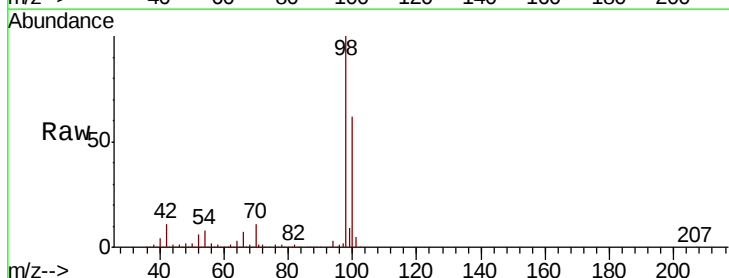
Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-A

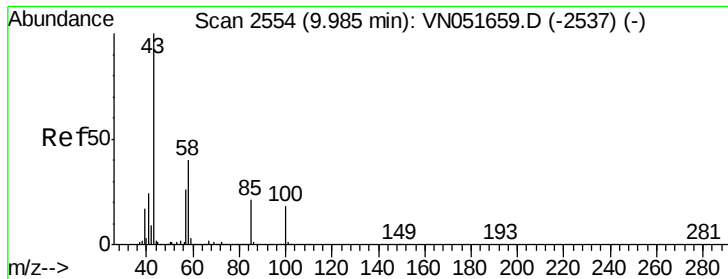
Tot Ion: 41 Resp: 5903
Ion Ratio Lower Upper
41 100
69 0.0 78.6 118.0#
39 15.6 59.2 88.8#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Tgt Ion: 98 Resp: 1506757
Ion Ratio Lower Upper
98 100
100 62.6 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.250 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

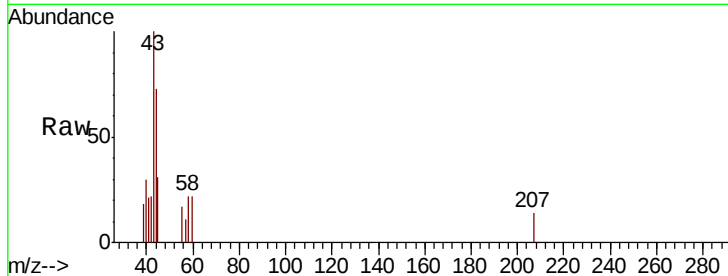
EO-02-100818-A

Tot Ion: 43 Resp: 1496

Ion Ratio Lower Upper

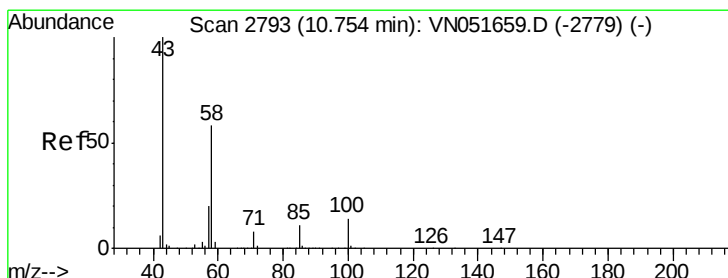
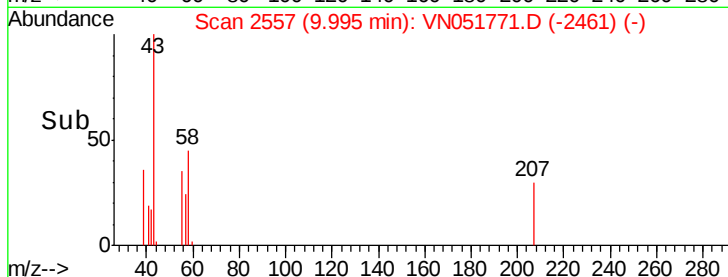
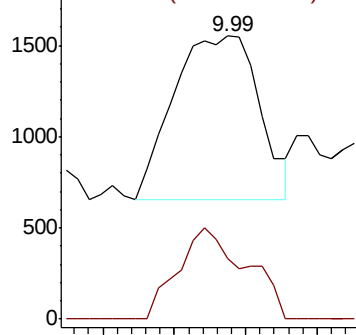
43 100

58 43.9 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 4.299 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051771.D

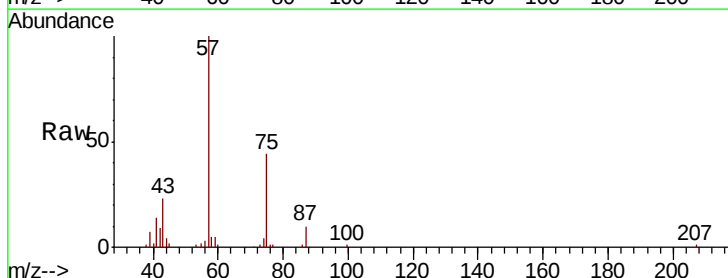
Acq: 10 Oct 2018 00:44

Tgt Ion: 43 Resp: 17463

Ion Ratio Lower Upper

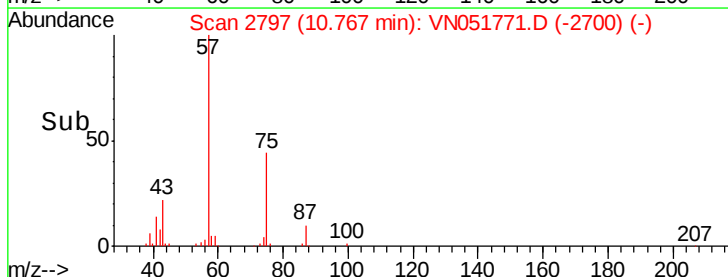
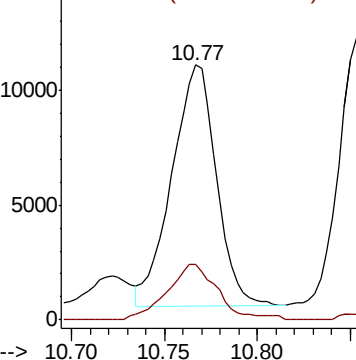
43 100

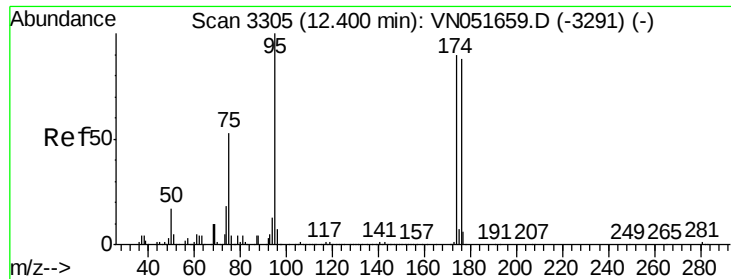
58 26.4 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-A

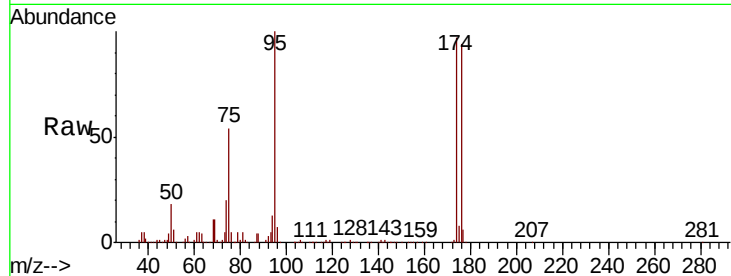
Tot Ion: 95 Resp: 427688

Ion Ratio Lower Upper

95 100

174 96.0 0.0 182.8

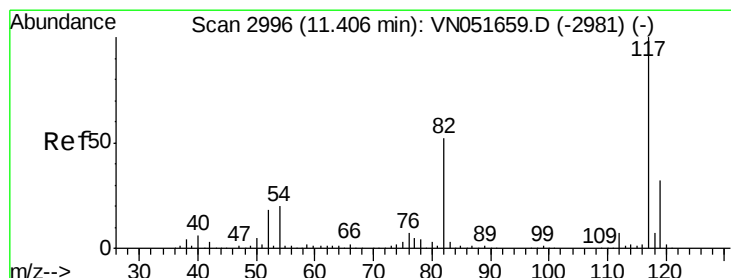
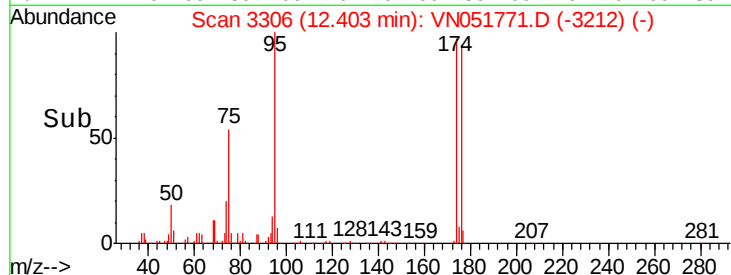
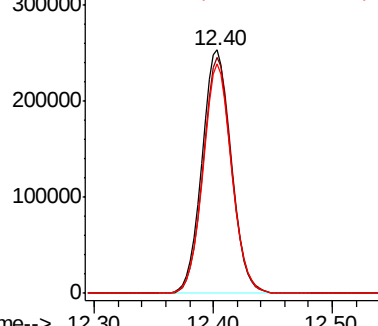
176 92.9 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051771.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN051771.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN051771.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

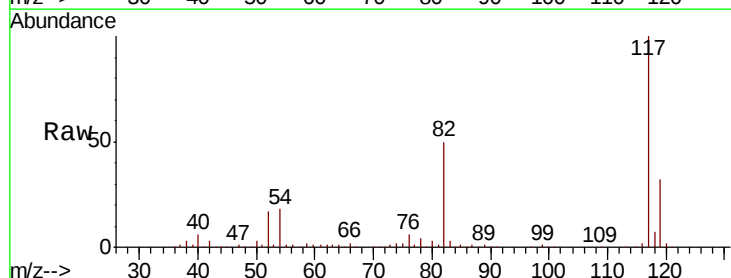
Tgt Ion: 117 Resp: 945202

Ion Ratio Lower Upper

117 100

82 50.2 41.3 61.9

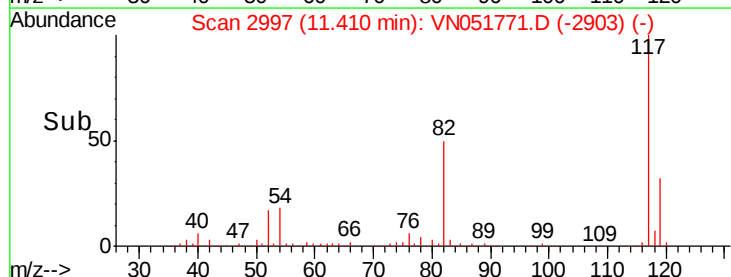
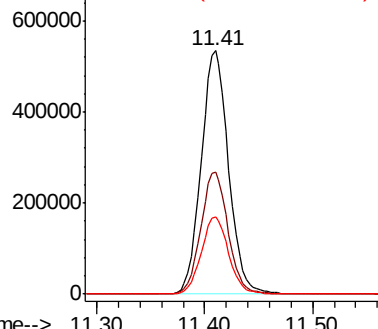
119 31.8 25.9 38.9

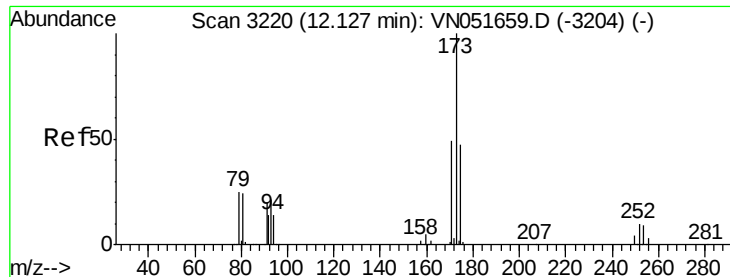


Abundance Ion 116.90 (116.60 to 117.60): VN051771.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN051771.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN051771.D (-2903) (-)

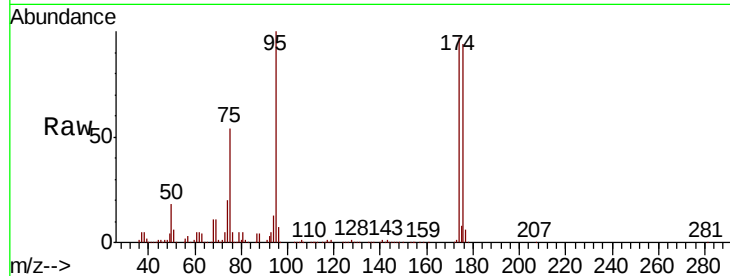




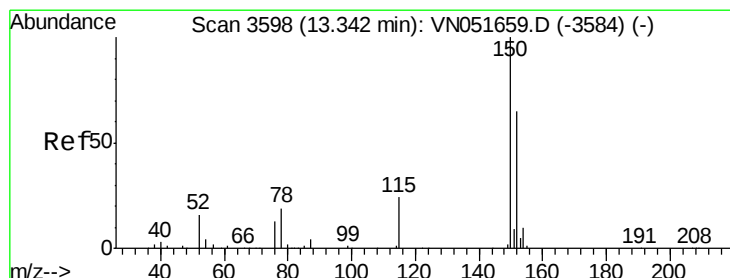
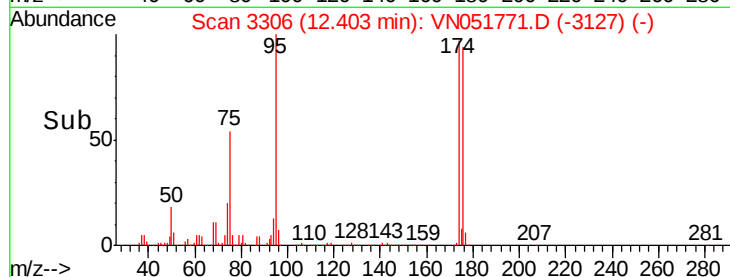
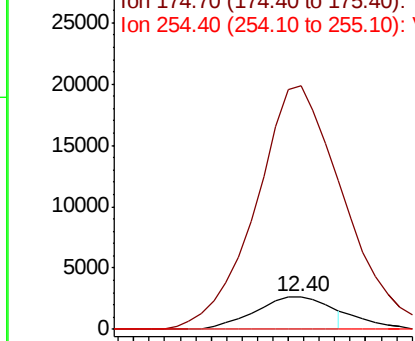
#71
Bromoform
Concen: 0.509 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Instrument :
MSVOA_N
ClientSampleId :
EO-02-100818-A

Tot Ion:173 Resp: 3549
Ion Ratio Lower Upper
173 100
175 741.6 24.0 72.0#
254 0.0 0.1 0.1#

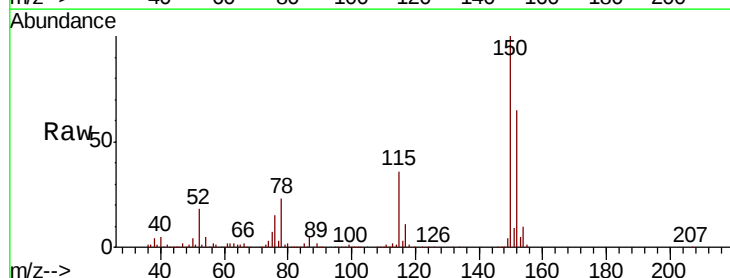


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

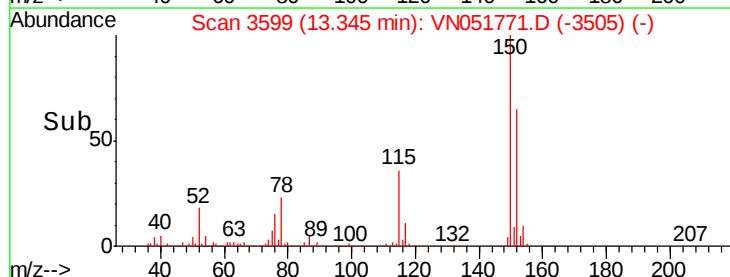
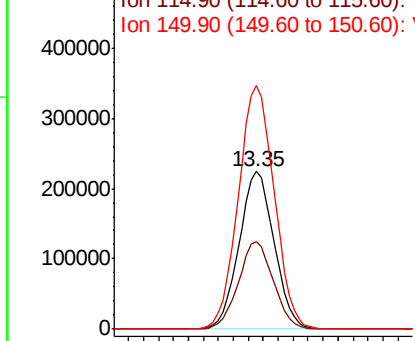


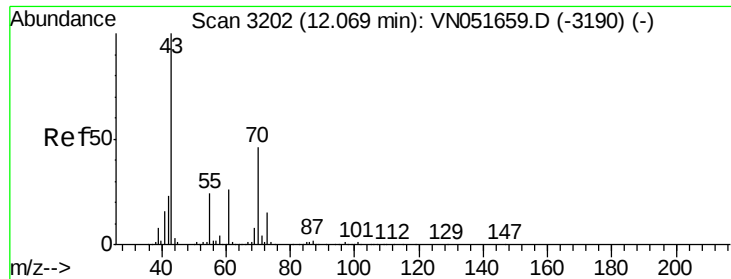
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051771.D
Acq: 10 Oct 2018 00:44

Tgt Ion:152 Resp: 365071
Ion Ratio Lower Upper
152 100
115 55.1 28.6 85.8
150 158.5 0.0 352.4



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: Below Cal

RT: 12.08 min Scan# 3205

Delta R.T. 0.01 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-A

Tot Ion: 43 Resp: 164

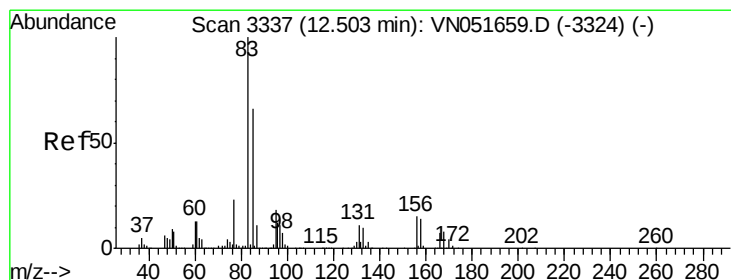
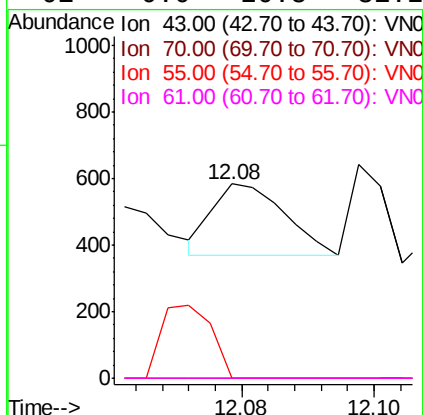
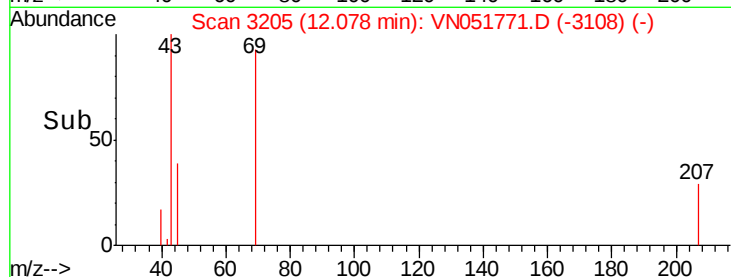
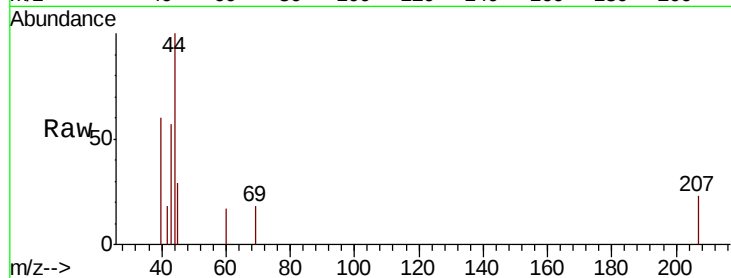
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 70.1 19.1 28.7#

61 0.0 20.8 31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

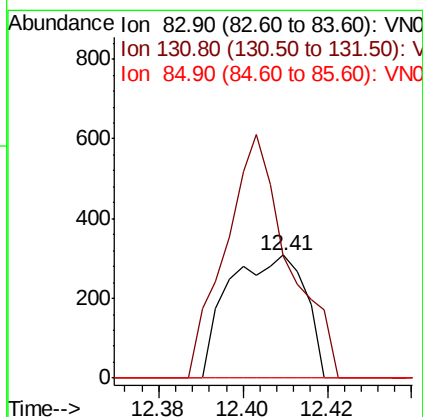
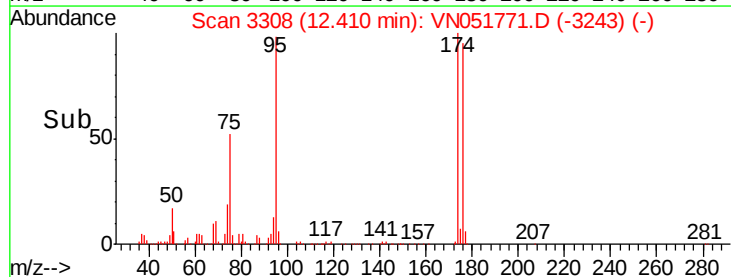
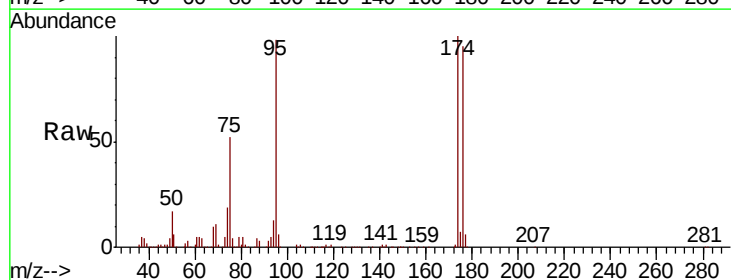
Tgt Ion: 83 Resp: 387

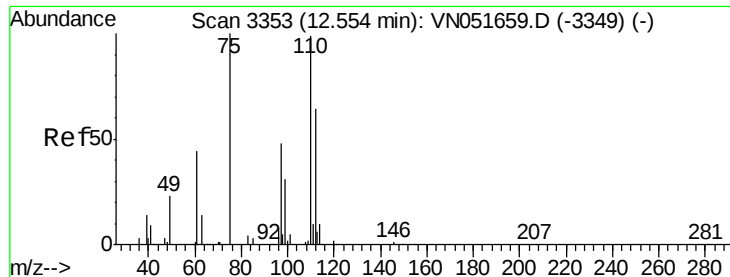
Ion Ratio Lower Upper

83 100

131 164.1 5.7 17.1#

85 0.0 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 51.058 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

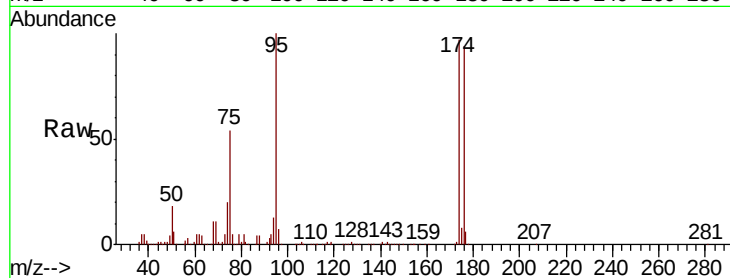
EO-02-100818-A

Tot Ion: 75 Resp: 231211

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

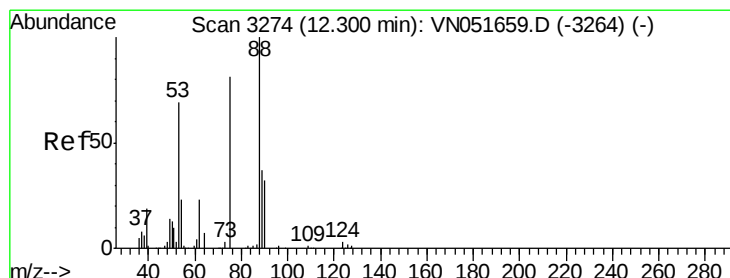
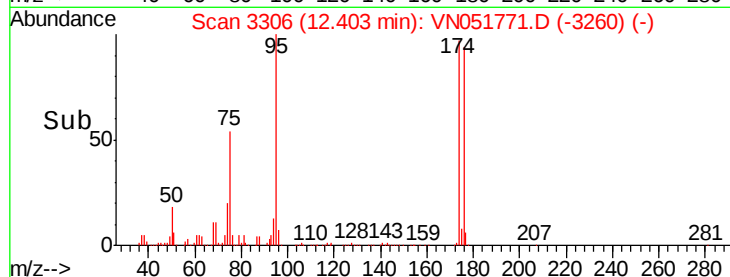
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 116.419 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

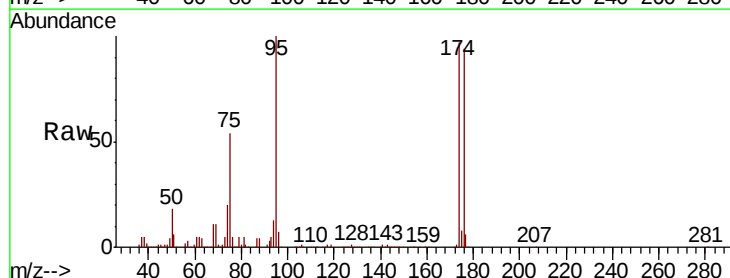
Tgt Ion: 75 Resp: 231211

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

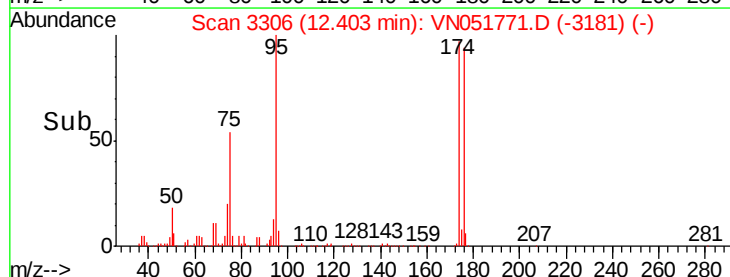
150000

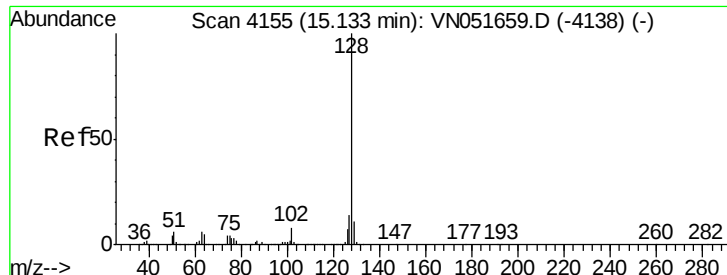
100000

50000

0

Time-->





#95

Naphthalene

Concen: 0.758 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051771.D

Acq: 10 Oct 2018 00:44

Instrument :

MSVOA_N

ClientSampleId :

EO-02-100818-A

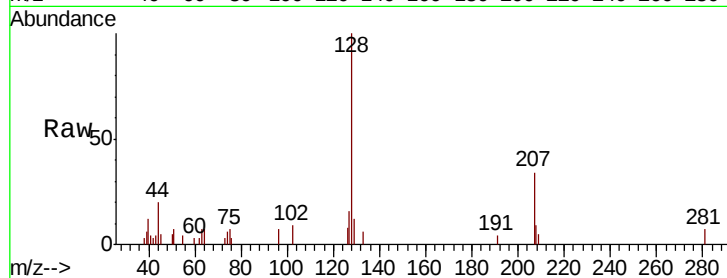
Tot Ion:128 Resp: 9603

Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

129 12.3 9.0 13.6



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

