

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051195.D
 Acq On : 14 Sep 2018 17:14
 Operator : MD\SY
 Sample : PB112829ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#05

Quant Time: Sep 15 00:08:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	582762	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	952693	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	785580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243255	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	362847	55.95	ug/l	0.00
Spiked Amount			Recovery	=	111.90%	
35) Dibromofluoromethane	7.59	113	359536	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
50) Toluene-d8	10.09	98	1266434	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
62) 4-Bromofluorobenzene	12.40	95	327093	36.40	ug/l	0.00
Spiked Amount			Recovery	=	72.80%	

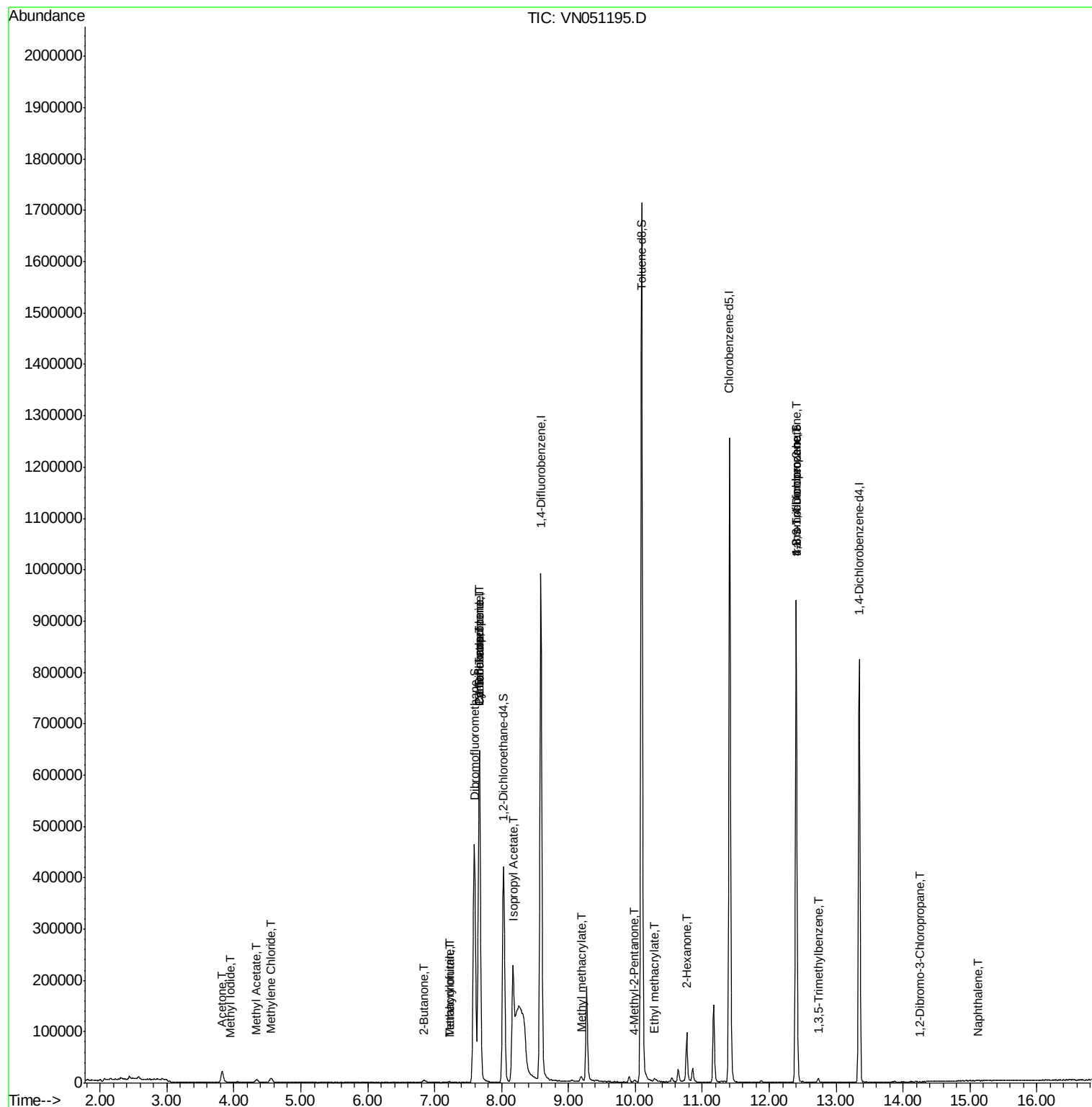
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2149	Below Cal		98
5) Bromomethane	2.57	94	2124	Below Cal		91
10) Methyl Iodide	3.95	142	233	5.66	ug/l #	44
16) Acetone	3.82	43	37221	17.79	ug/l	99
18) Methyl Acetate	4.34	43	12474	2.40	ug/l #	83
20) Methylene Chloride	4.56	84	7197	1.00	ug/l #	97
25) 2-Butanone	6.84	43	7581	2.97	ug/l	92
29) Tetrahydrofuran	7.23	42	1256	0.79	ug/l #	59
31) Cyclohexane	7.67	56	8977	0.62	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	37751	3.61	ug/l #	49
38) Carbon Tetrachloride	7.67	117	50741	4.93	ug/l #	16
41) Methacrylonitrile	7.22	41	630	0.20	ug/l #	33
43) Isopropyl Acetate	8.17	43	283883	26.56	ug/l #	80
48) Methyl methacrylate	9.18	41	6682	1.28	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	2727	0.46	ug/l #	83
56) Ethyl methacrylate	10.28	69	92	2.46	ug/l #	1
59) 2-Hexanone	10.77	43	12508	3.12	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.41	83	30	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	150756	39.67	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4299	0.26	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	150756	117.70	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.26	75	29	0.70	ug/l #	1
95) Naphthalene	15.13	128	240	5.36	ug/l #	69

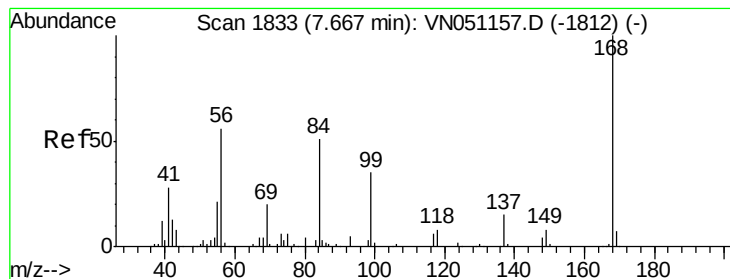
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091418\
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Quant Time: Sep 15 00:08:57 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

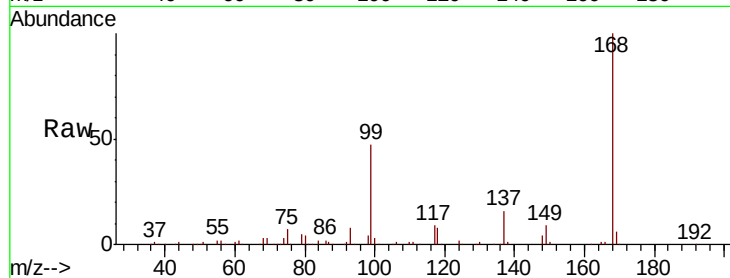
PB112829ZHE#05

Tot Ion:168 Resp: 582762

Ion Ratio Lower Upper

168 100

99 47.0 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): VN051157.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051157.D (-1812) (-)

7.67

250000

200000

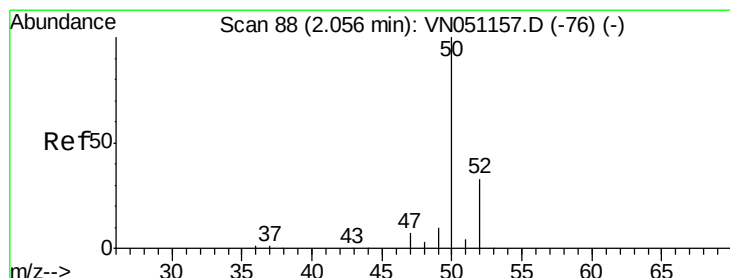
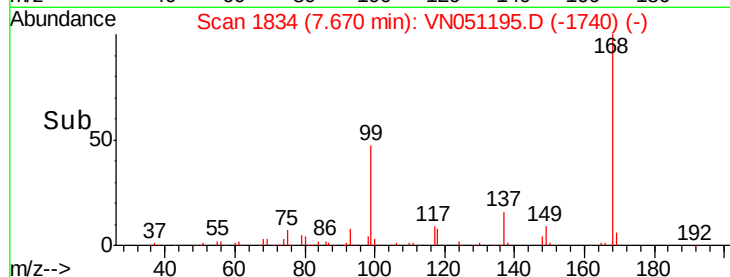
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051195.D

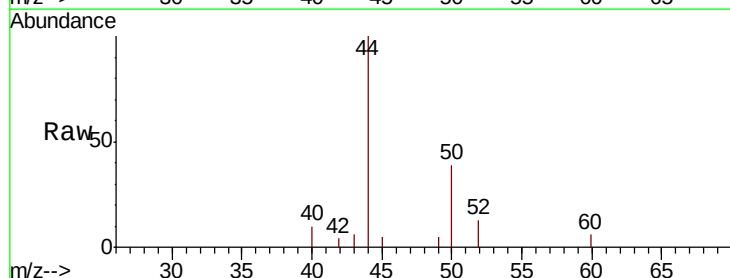
Acq: 14 Sep 2018 17:14

Tgt Ion: 50 Resp: 2149

Ion Ratio Lower Upper

50 100

52 33.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN051157.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051157.D (-76) (-)

2.06

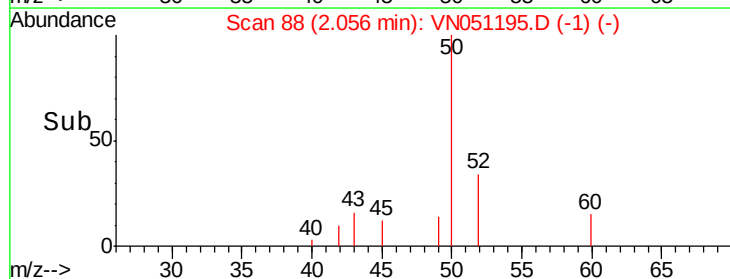
1500

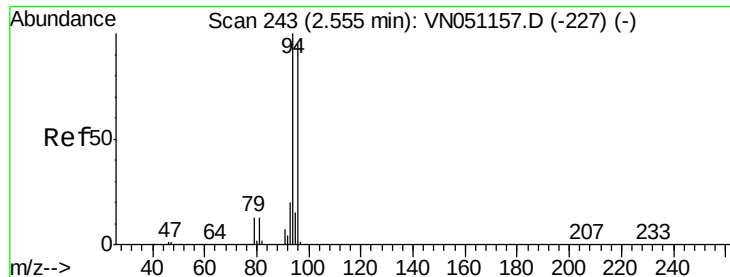
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

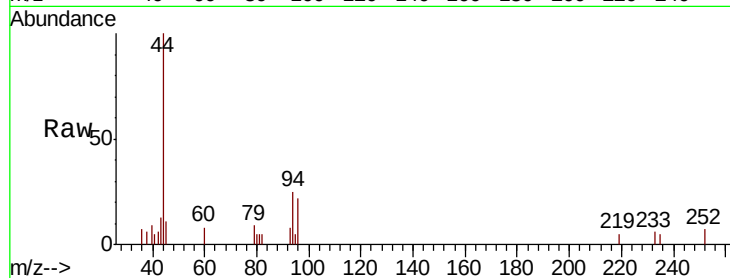
PB112829ZHE#05

Tot Ion: 94 Resp: 2124

Ion Ratio Lower Upper

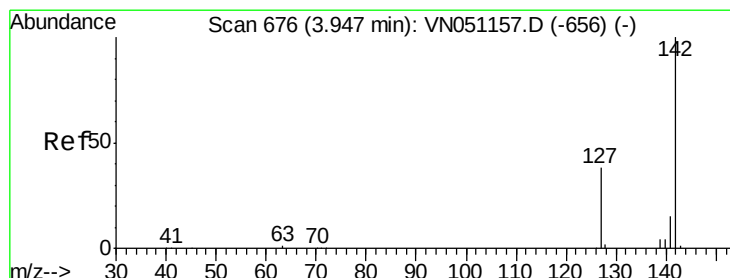
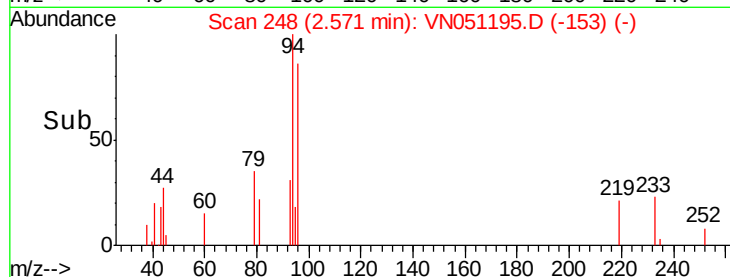
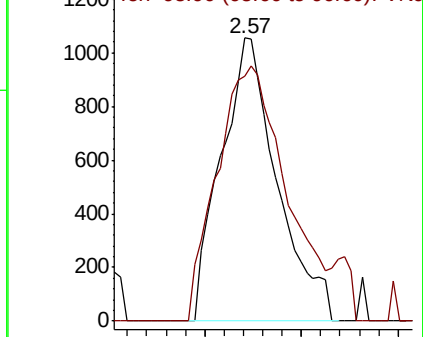
94 100

96 86.4 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN051195.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051195.D (-153) (-)



#10

Methyl Iodide

Concen: 5.66 ug/l

RT: 3.95 min Scan# 676

Delta R.T. -0.00 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

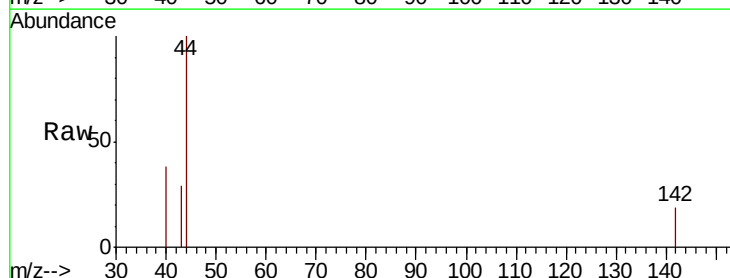
Tgt Ion: 142 Resp: 233

Ion Ratio Lower Upper

142 100

127 0.0 31.0 46.4#

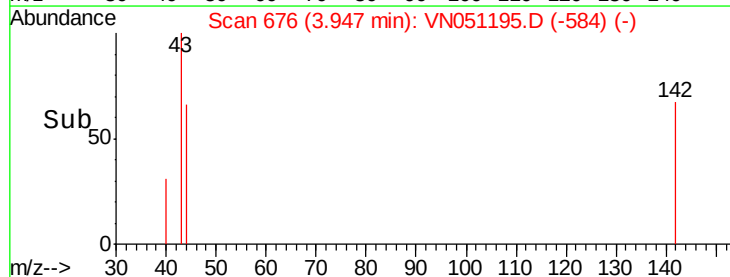
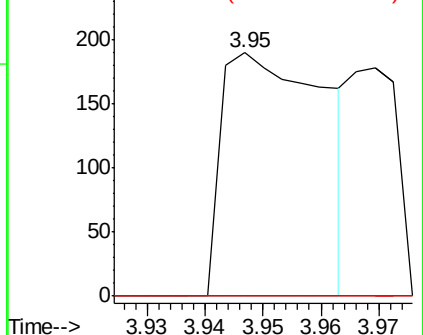
141 0.0 11.3 16.9#

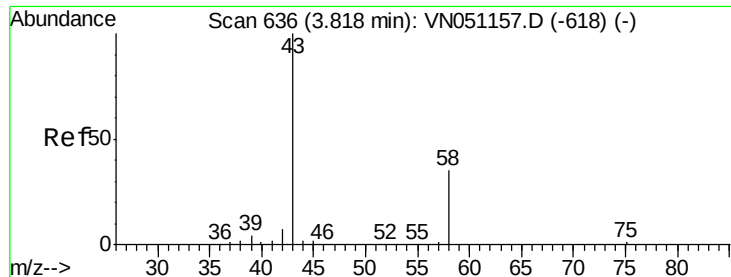


Abundance Ion 141.80 (141.50 to 142.50): VN051195.D (-584) (-)

Ion 126.80 (126.50 to 127.50): VN051195.D (-584) (-)

Ion 140.80 (140.50 to 141.50): VN051195.D (-584) (-)





#16

Acetone

Concen: 17.79 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

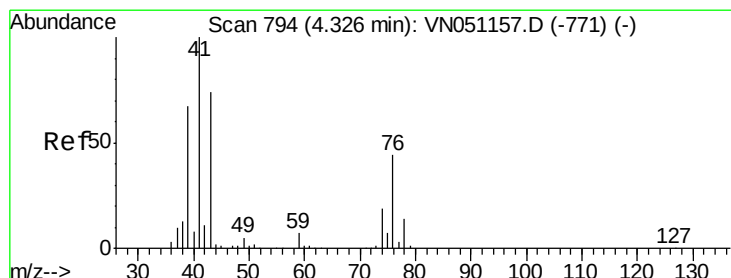
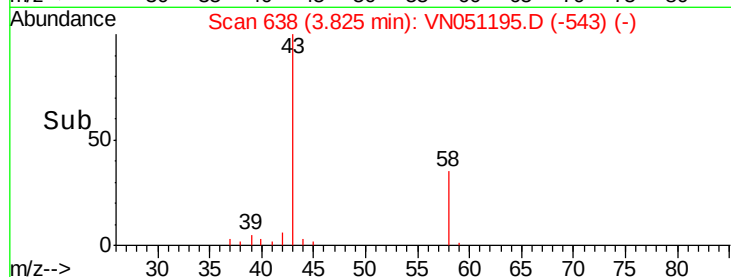
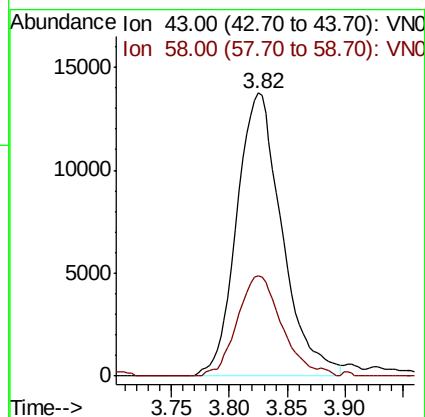
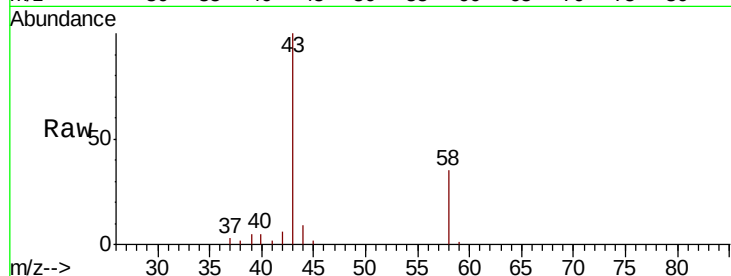
PB112829ZHE#05

Tot Ion: 43 Resp: 37221

Ion Ratio Lower Upper

43 100

58 35.4 27.8 41.6



#18

Methyl Acetate

Concen: 2.40 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN051195.D

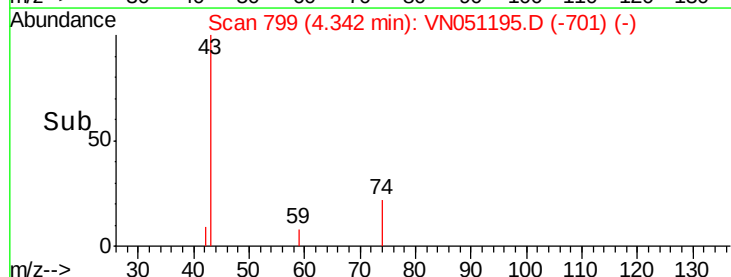
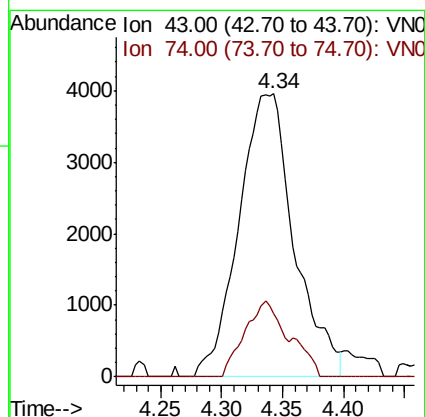
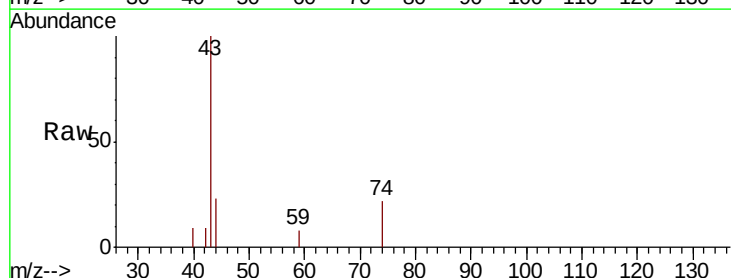
Acq: 14 Sep 2018 17:14

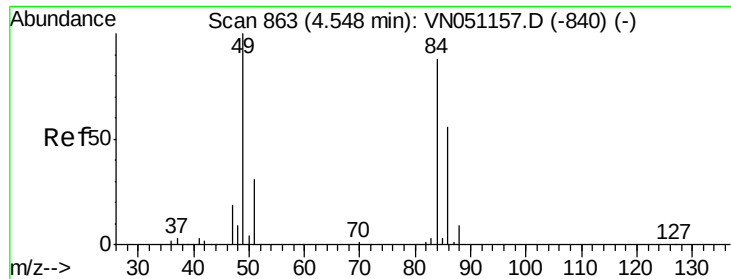
Tgt Ion: 43 Resp: 12474

Ion Ratio Lower Upper

43 100

74 17.4 20.7 31.1#

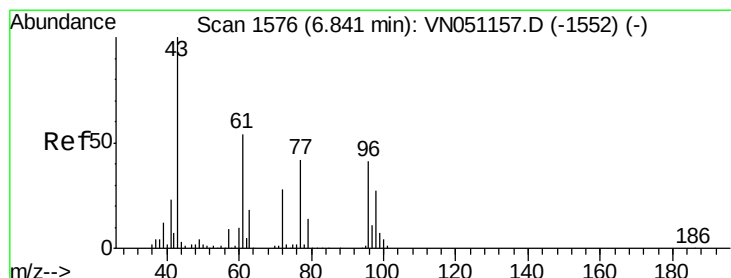
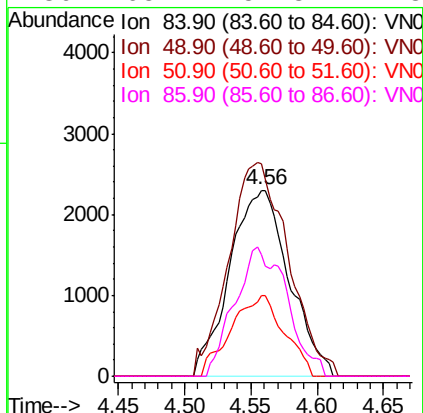
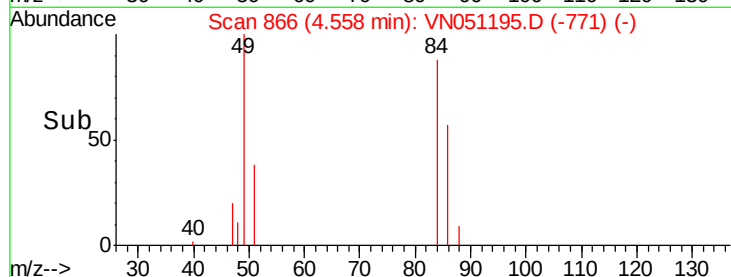
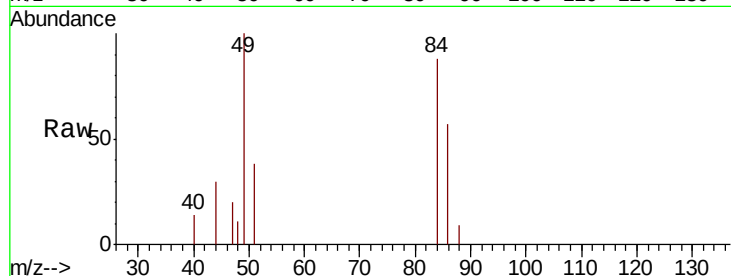




#20
Methylene Chloride
Concen: 1.00 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

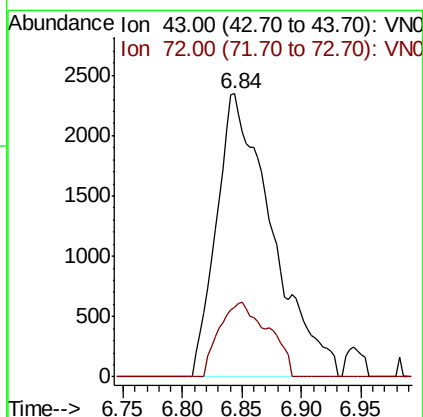
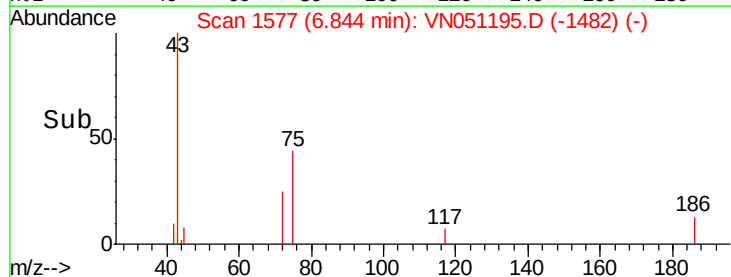
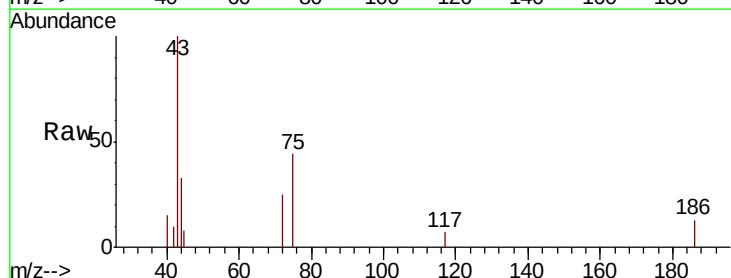
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#05

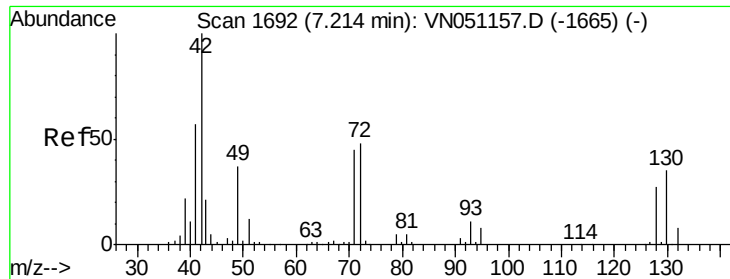
Tot Ion: 84 Resp: 7197
Ion Ratio Lower Upper
84 100
49 114.1 90.2 135.2
51 43.1 28.4 42.6#
86 65.2 51.8 77.8



#25
2-Butanone
Concen: 2.97 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

Tgt Ion: 43 Resp: 7581
Ion Ratio Lower Upper
43 100
72 24.7 23.0 34.6





#29

Tetrahydrofuran

Concen: 0.79 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

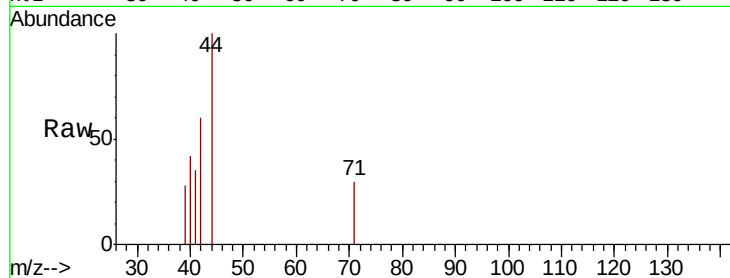
Tot Ion: 42 Resp: 1256

Ion Ratio Lower Upper

42 100

72 15.4 37.4 56.0#

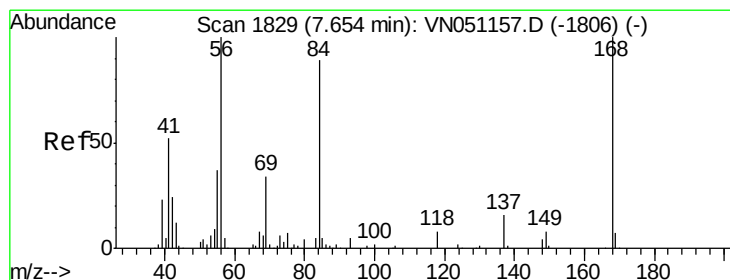
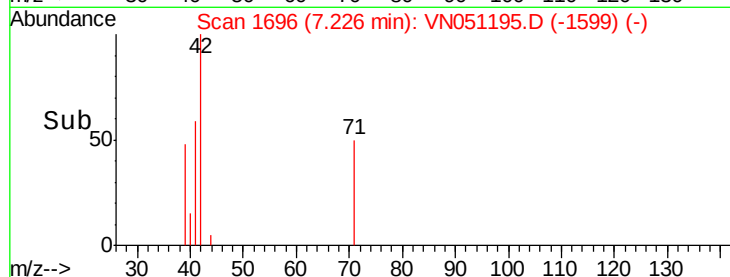
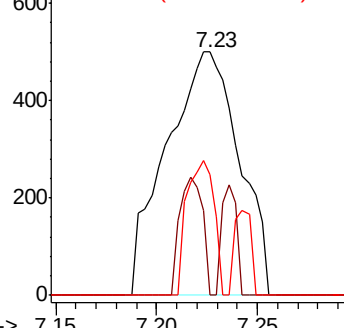
71 21.0 34.7 52.1#



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: 0.62 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

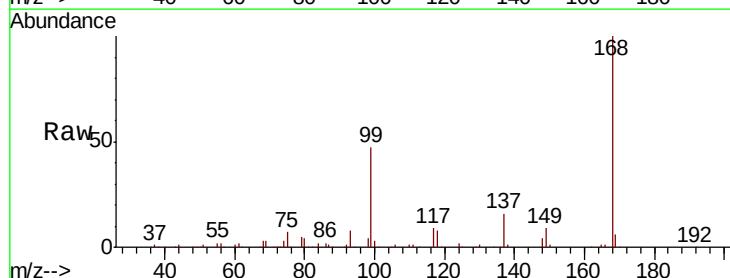
Tgt Ion: 56 Resp: 8977

Ion Ratio Lower Upper

56 100

69 215.3 26.3 39.5#

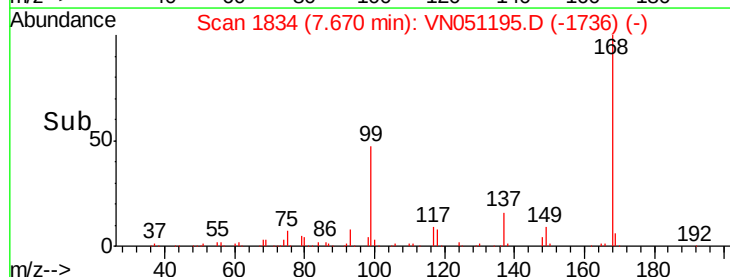
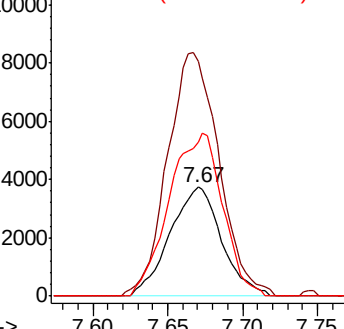
84 141.0 69.4 104.0#

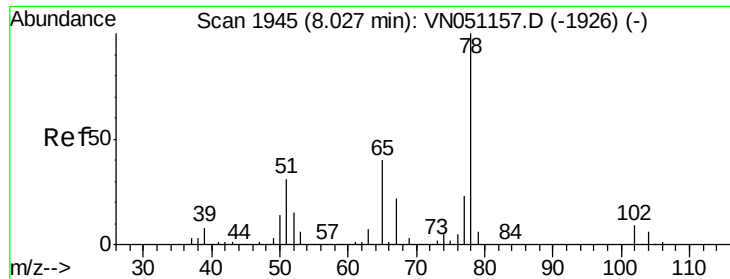


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

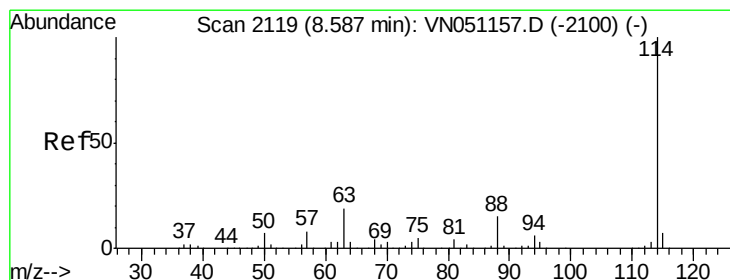
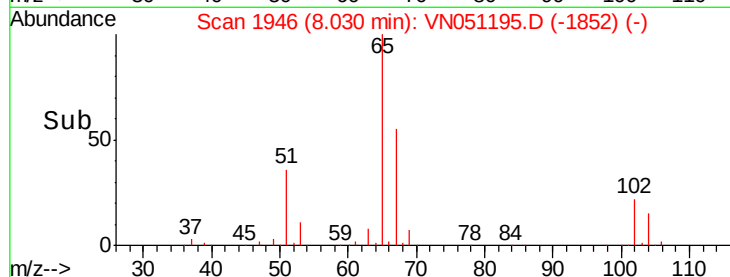
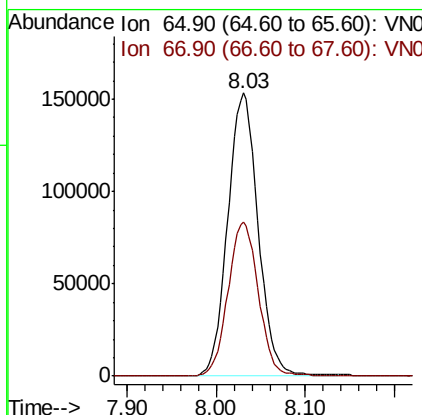
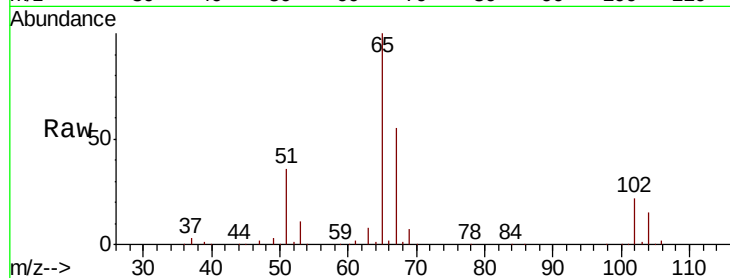




#33
 1,2-Dichloroethane-d4
 Concen: 55.95 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051195.D
 Acq: 14 Sep 2018 17:14

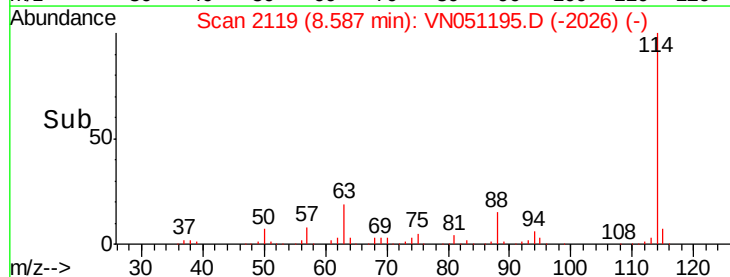
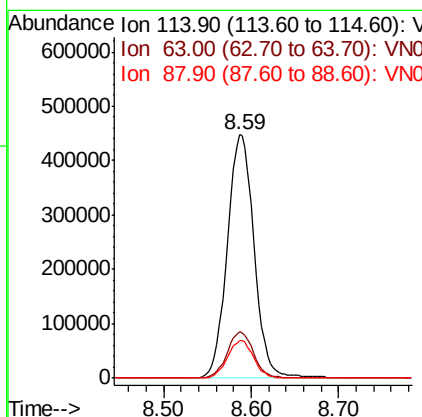
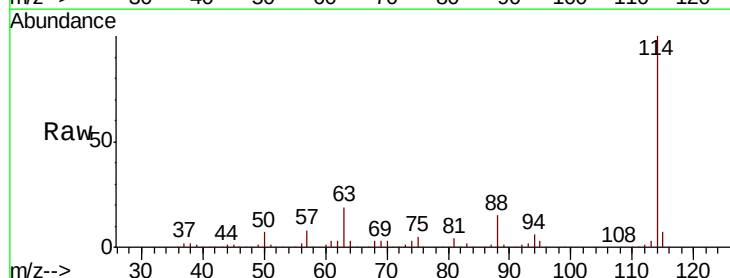
Instrument :
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 PB112829ZHE#05

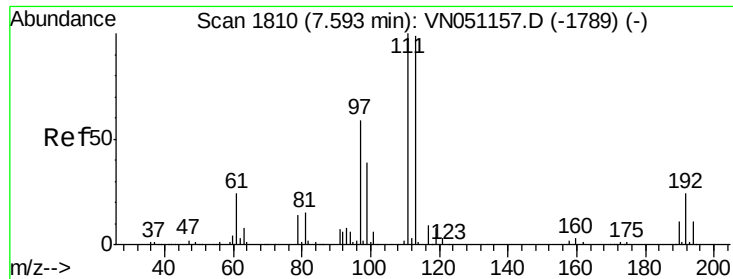
Tot Ion: 65 Resp: 362847
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051195.D
 Acq: 14 Sep 2018 17:14

Tgt Ion: 114 Resp: 952693
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.8
 88 15.4 0.0 30.8

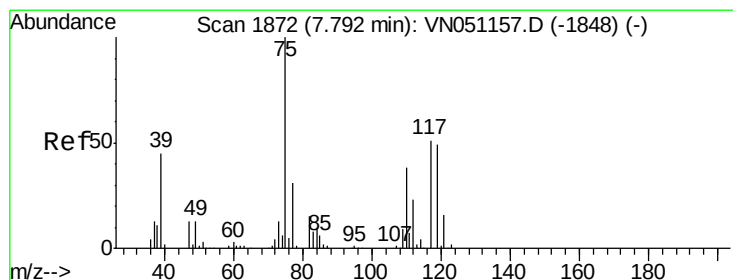
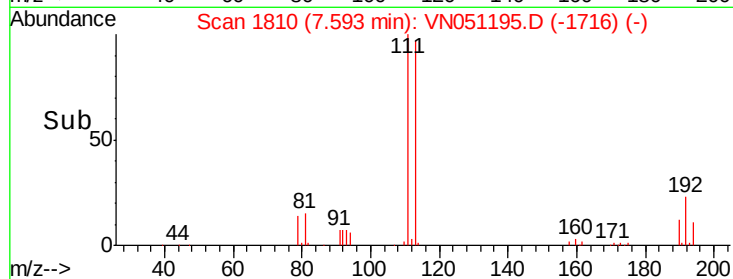
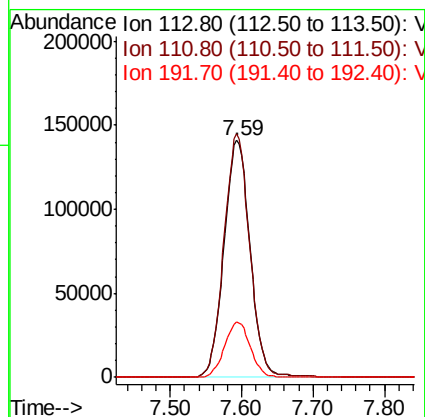
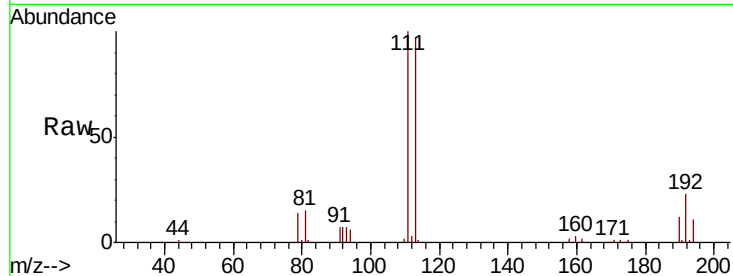




#35
 Dibromofluoromethane
 Concen: 50.22 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051195.D
 Acq: 14 Sep 2018 17:14

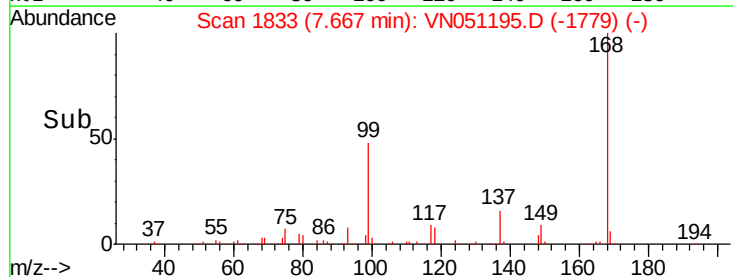
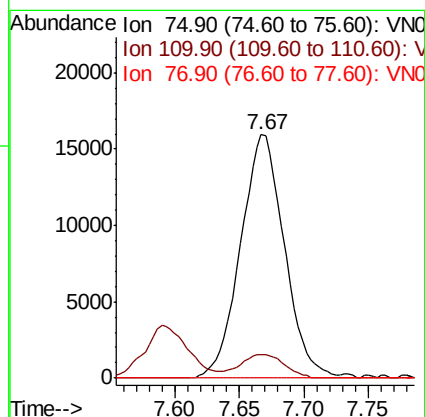
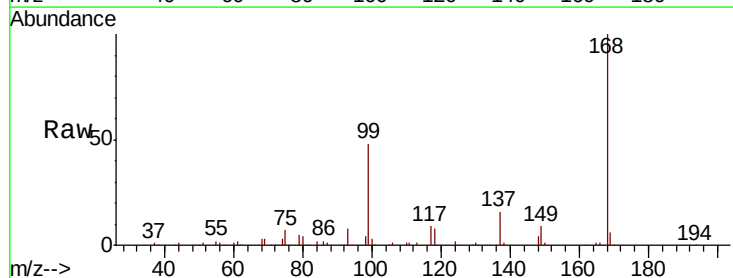
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#05

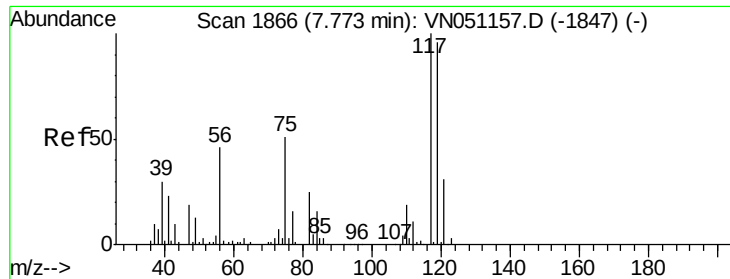
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.0	124.6
192	23.1	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051195.D
 Acq: 14 Sep 2018 17:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 4.93 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

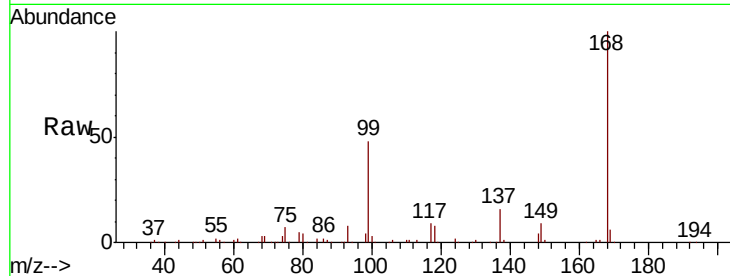
Tot Ion:117 Resp: 50741

Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

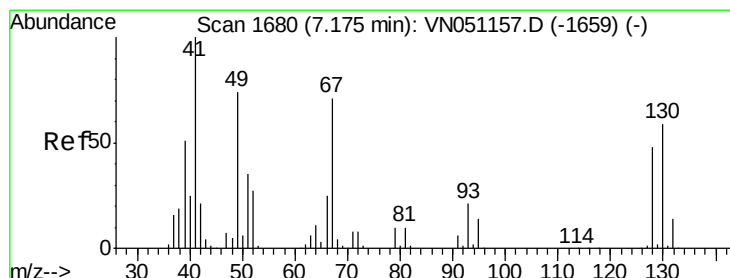
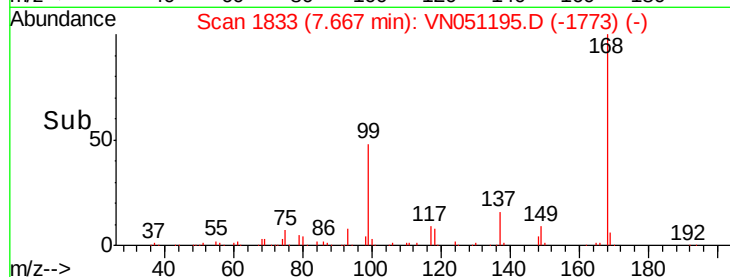
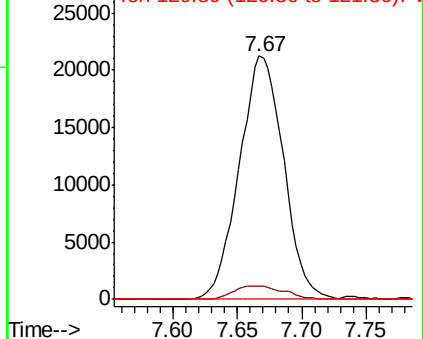
121 0.0 24.6 36.8#



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: 0.20 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.04 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Tgt Ion: 41 Resp: 630

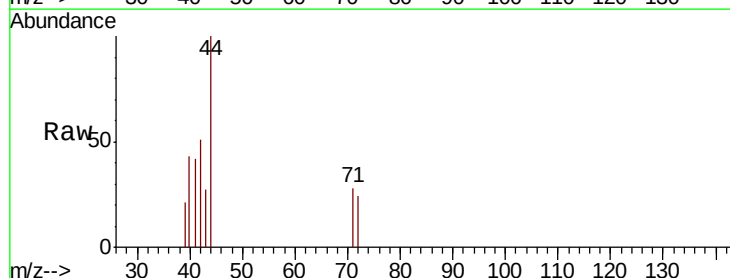
Ion Ratio Lower Upper

41 100

39 47.6 51.3 76.9#

67 0.0 78.5 117.7#

52 0.0 29.0 43.6#

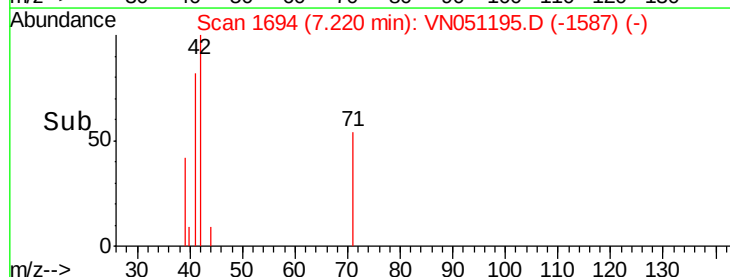
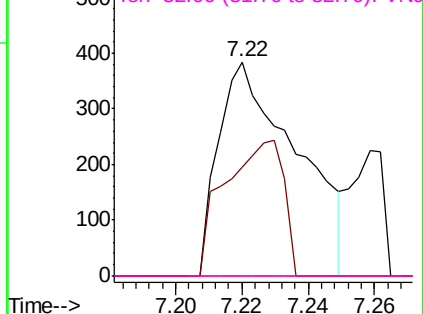


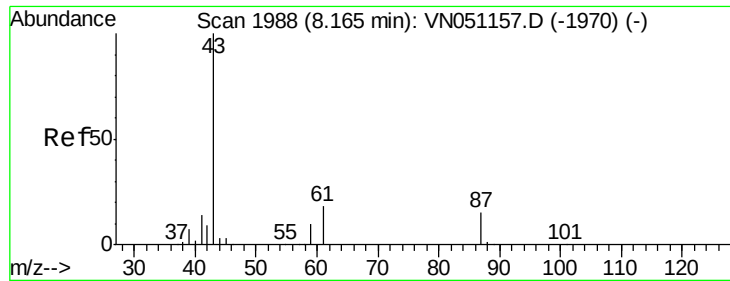
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 26.56 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

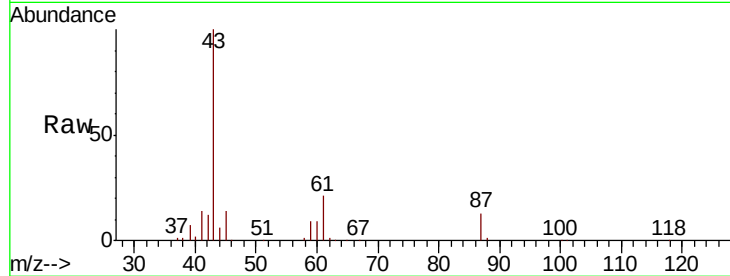
Tot Ion: 43 Resp: 283883

Ion Ratio Lower Upper

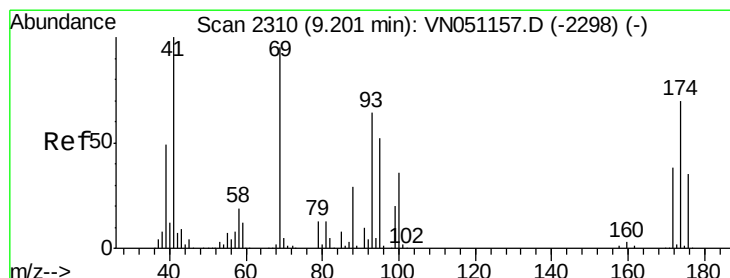
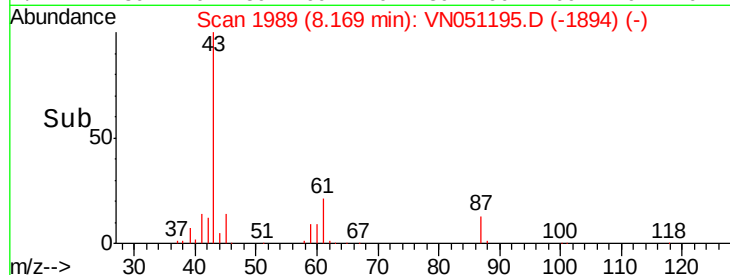
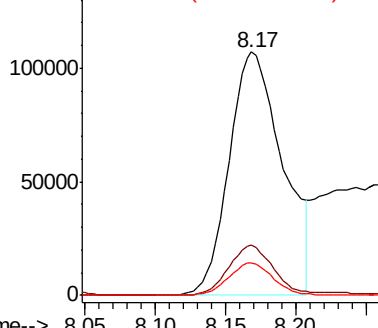
43 100

61 17.4 25.0 37.6#

87 11.2 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.28 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

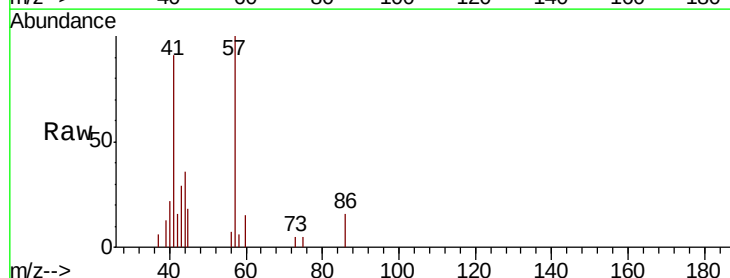
Tgt Ion: 41 Resp: 6682

Ion Ratio Lower Upper

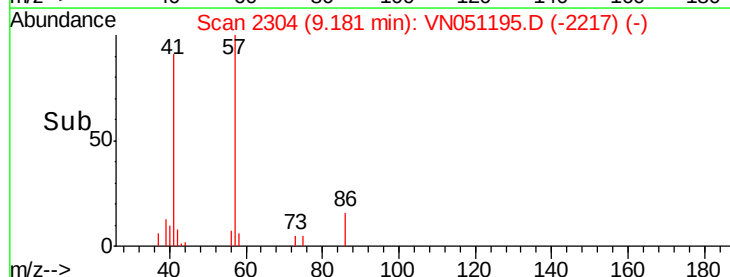
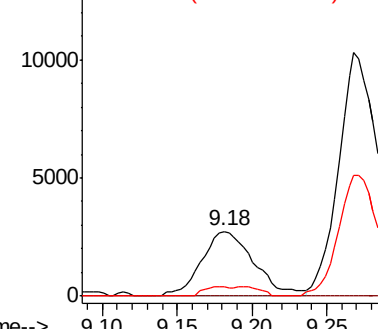
41 100

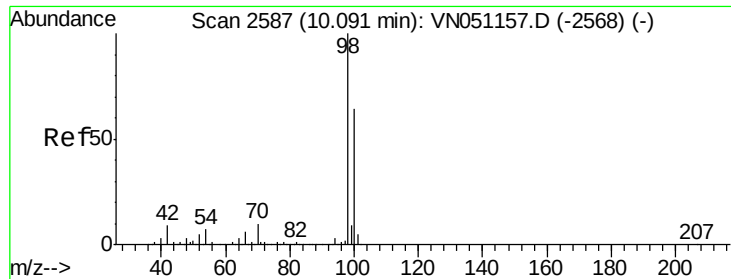
69 0.0 77.7 116.5#

39 7.7 41.6 62.4#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

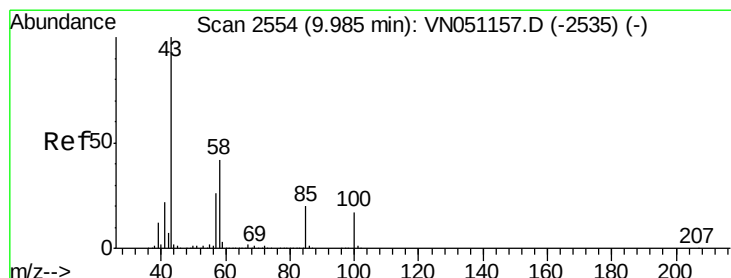
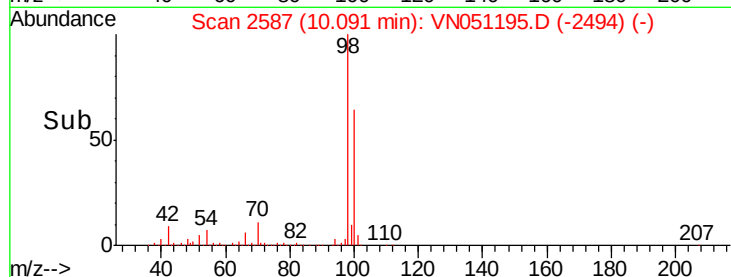
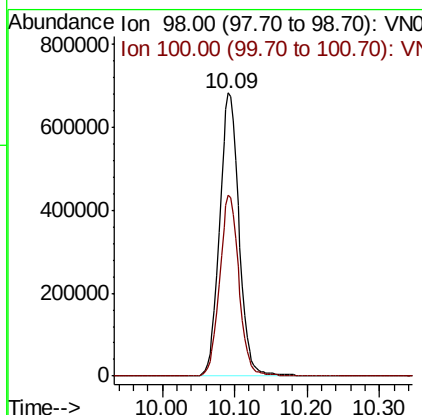
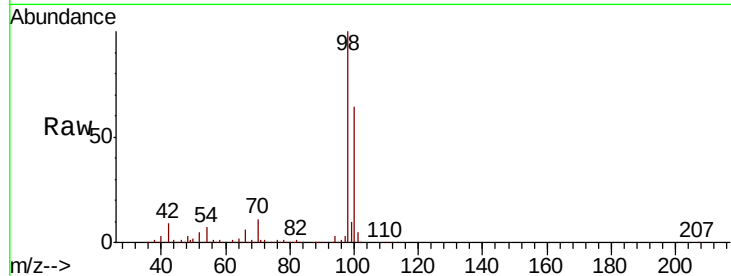




#50
Toluene-d8
Concen: 46.62 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

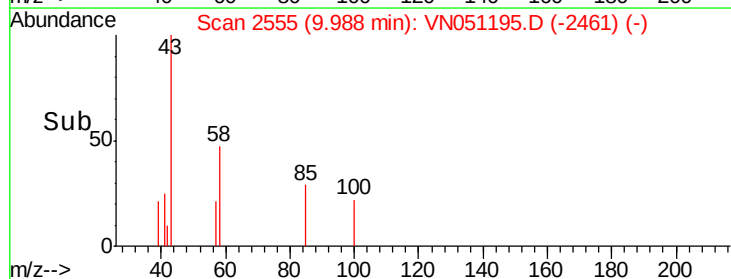
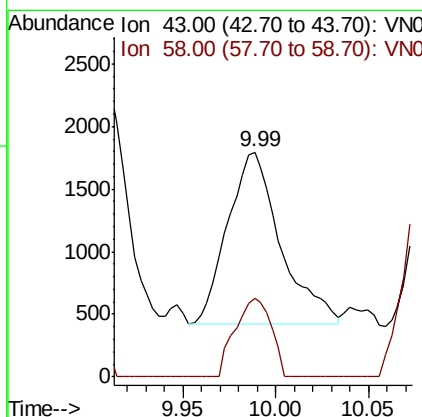
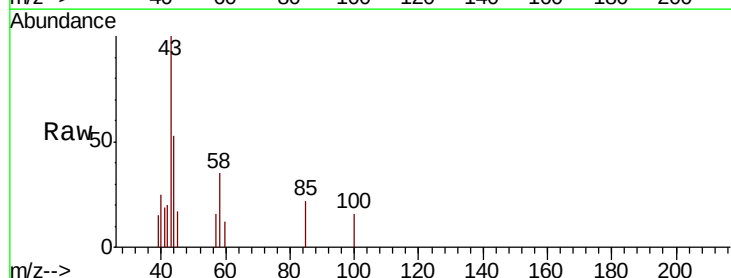
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#05

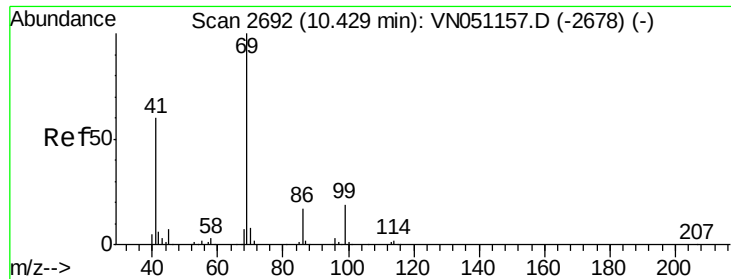
Tot Ion: 98 Resp: 1266434
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.46 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

Tgt Ion: 43 Resp: 2727
Ion Ratio Lower Upper
43 100
58 30.9 33.5 50.3#





#56

Ethyl methacrylate

Concen: 2.46 ug/l

RT: 10.28 min Scan# 2645

Delta R.T. -0.15 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

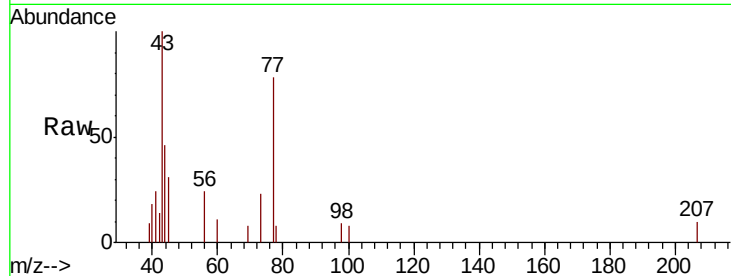
Tot Ion: 69 Resp: 92

Ion Ratio Lower Upper

69 100

41 1137.0 47.8 71.8#

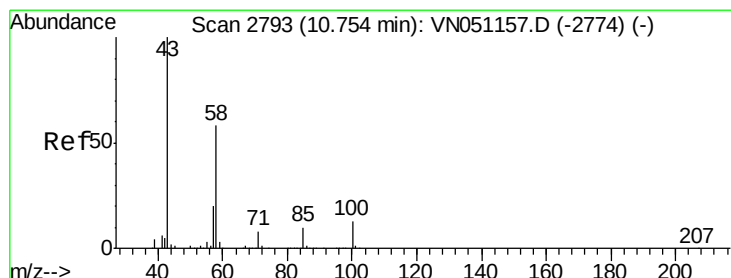
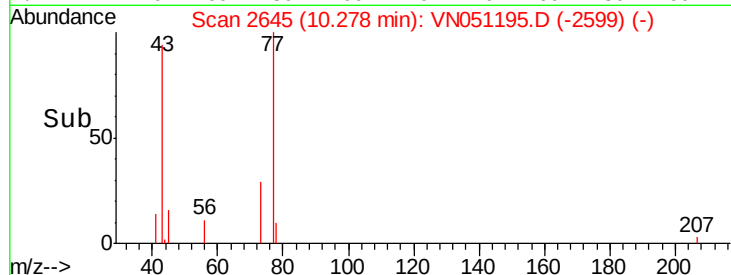
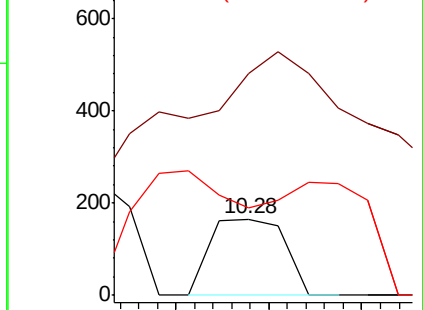
39 235.9 23.0 34.4#



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: 3.12 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051195.D

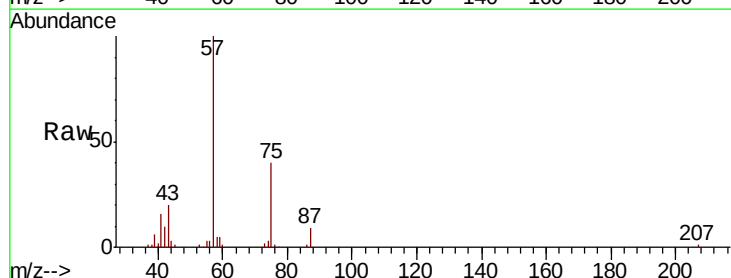
Acq: 14 Sep 2018 17:14

Tgt Ion: 43 Resp: 12508

Ion Ratio Lower Upper

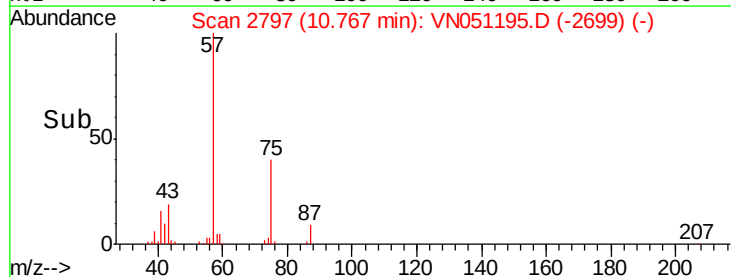
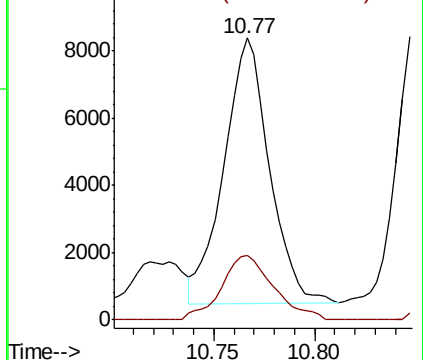
43 100

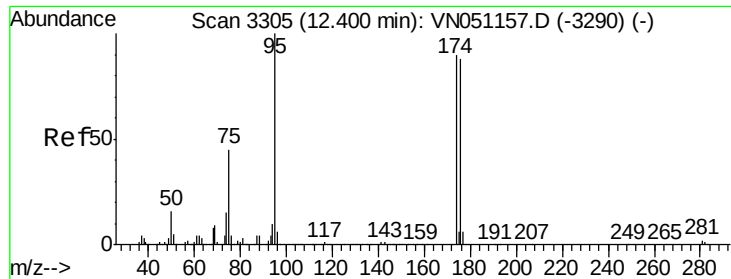
58 27.7 29.3 88.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.40 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

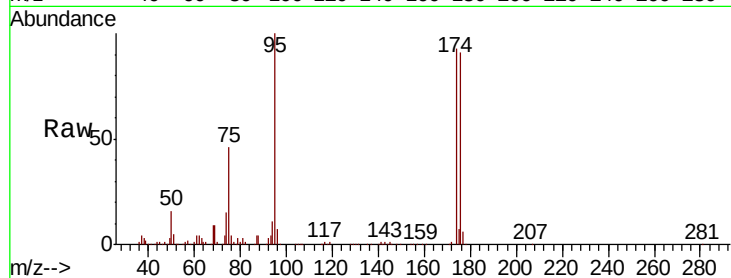
Tot Ion: 95 Resp: 327093

Ion Ratio Lower Upper

95 100

174 94.3 0.0 184.8

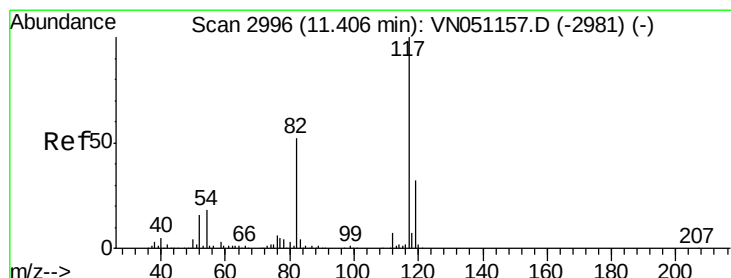
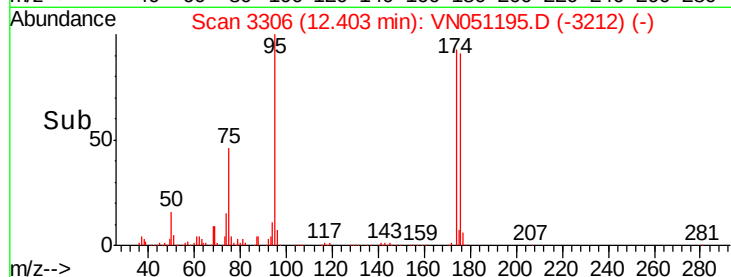
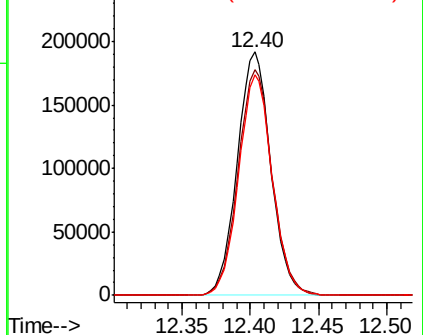
176 90.6 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

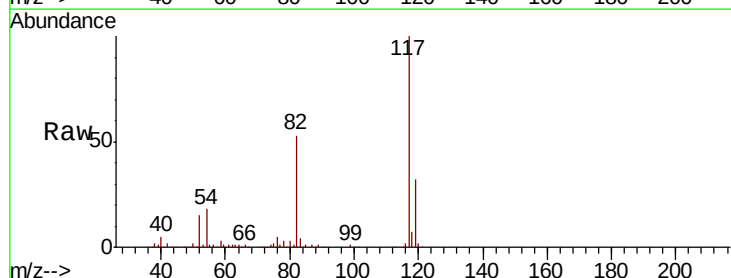
Tgt Ion: 117 Resp: 785580

Ion Ratio Lower Upper

117 100

82 52.6 41.8 62.6

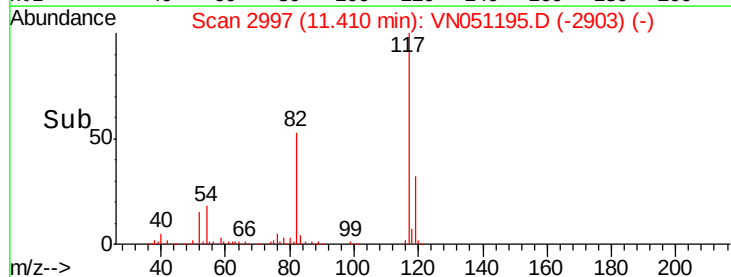
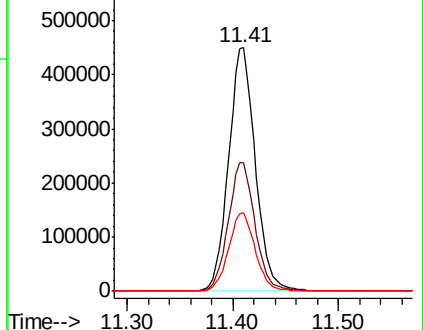
119 32.2 26.2 39.2

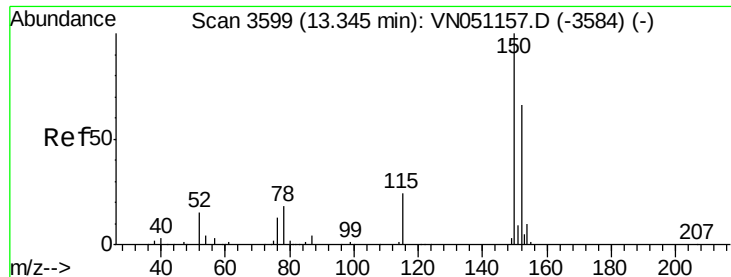


Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

PB112829ZHE#05

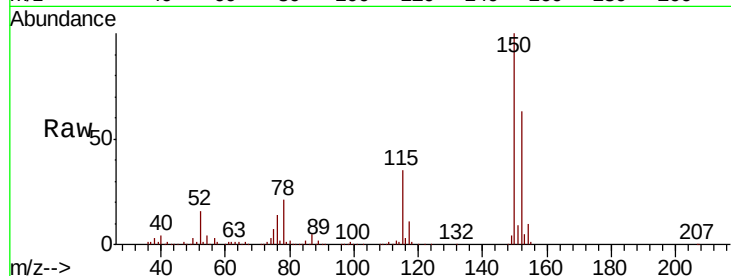
Tot Ion:152 Resp: 243255

Ion Ratio Lower Upper

152 100

115 55.9 28.2 84.7

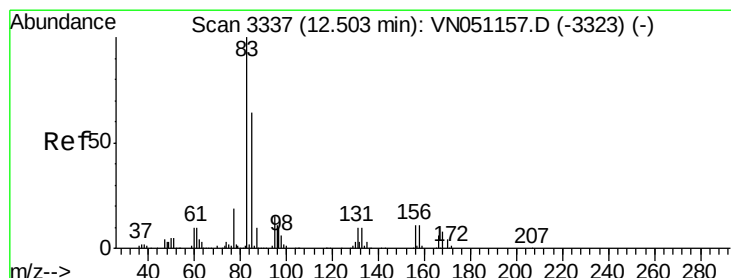
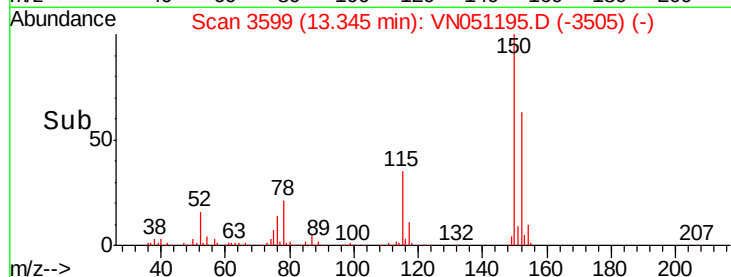
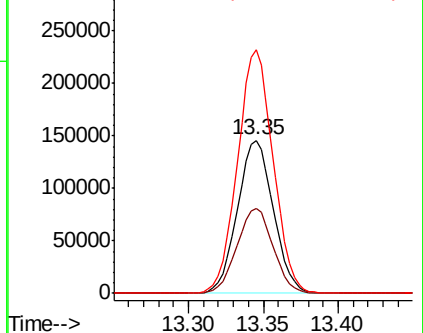
150 157.7 0.0 349.0



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: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

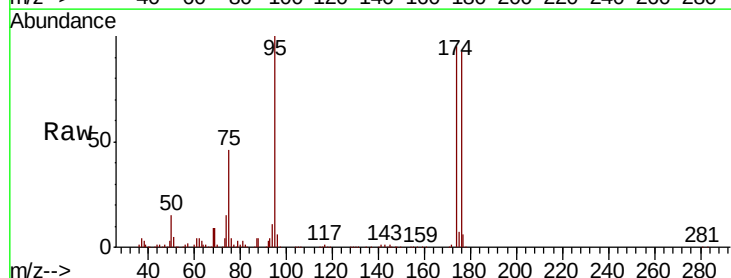
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 1236.7 5.3 16.1#

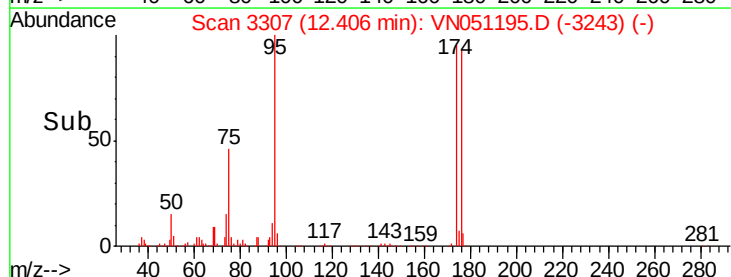
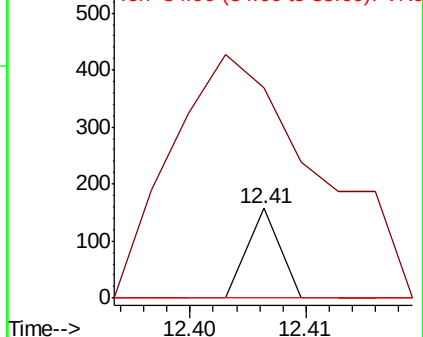
85 0.0 32.3 96.8#

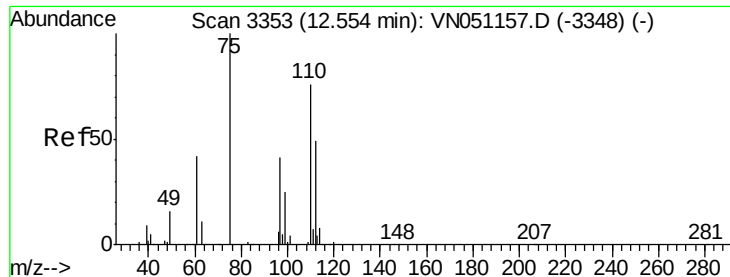


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 39.67 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051195.D

Acq: 14 Sep 2018 17:14

Instrument :

MSVOA_N

ClientSampleId :

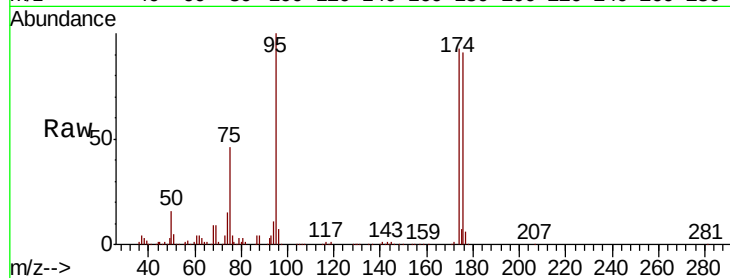
PB112829ZHE#05

Tot Ion: 75 Resp: 150756

Ion Ratio Lower Upper

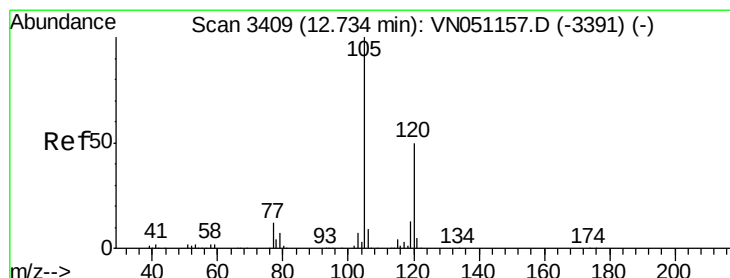
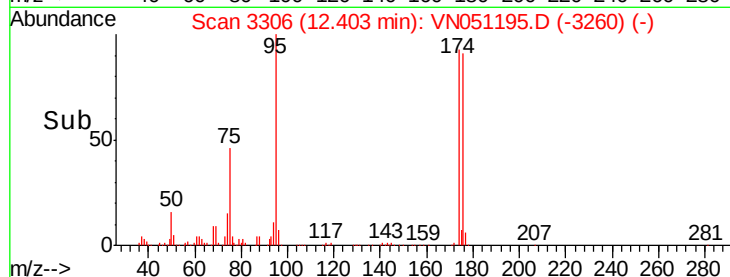
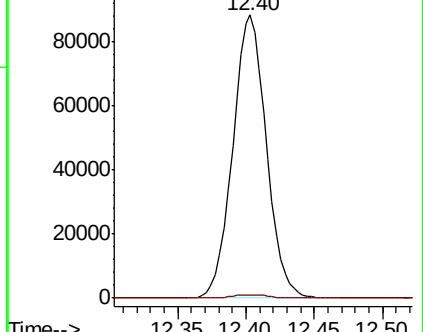
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051157.D (-3348) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.26 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051195.D

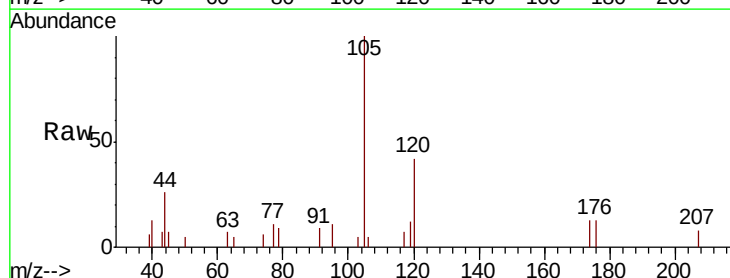
Acq: 14 Sep 2018 17:14

Tgt Ion: 105 Resp: 4299

Ion Ratio Lower Upper

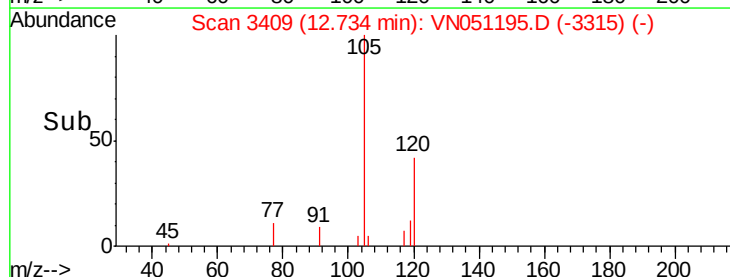
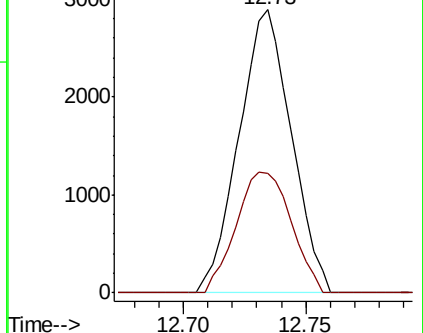
105 100

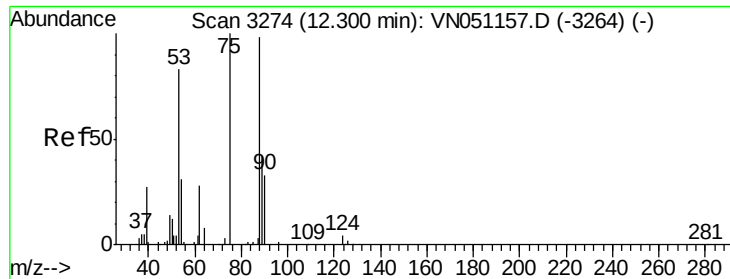
120 44.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN051157.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051157.D (-3391) (-)

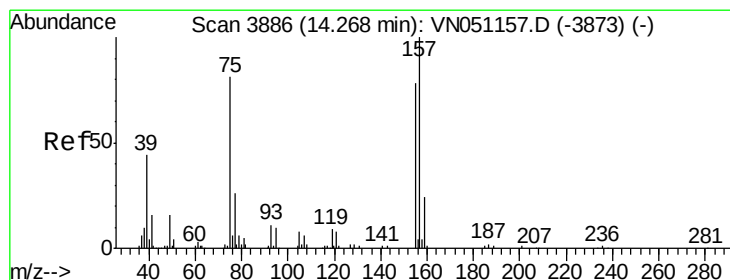
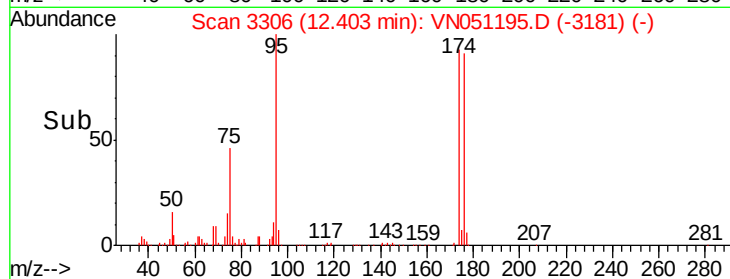
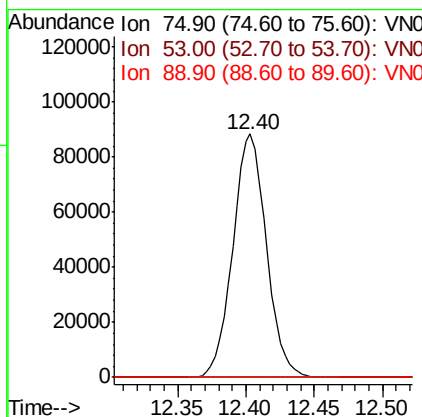
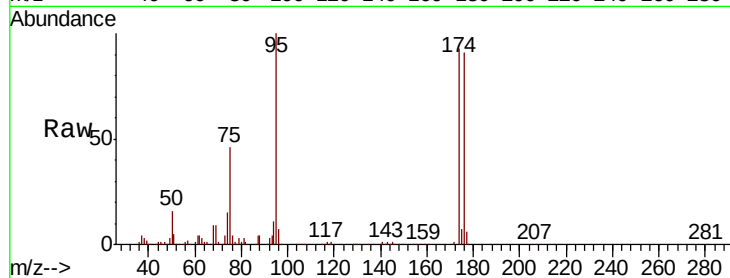




#81
trans-1,4-Dichloro-2-butene
Concen: 117.70 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

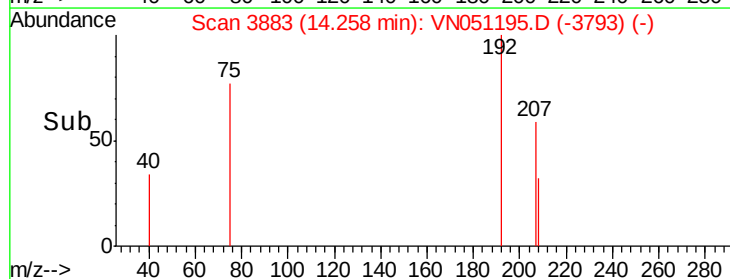
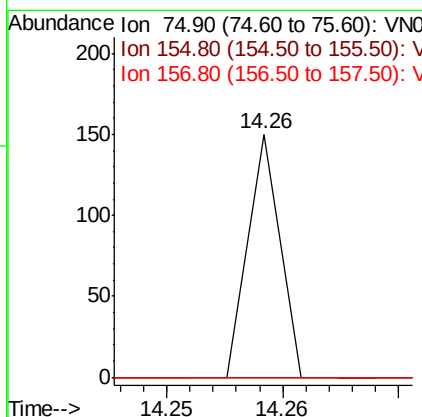
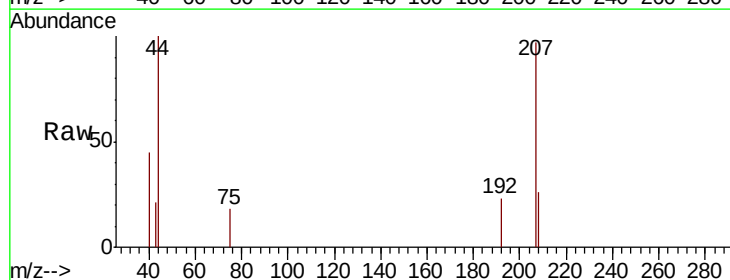
Instrument :
MSVOA_N
ClientSampleId :
PB112829ZHE#05

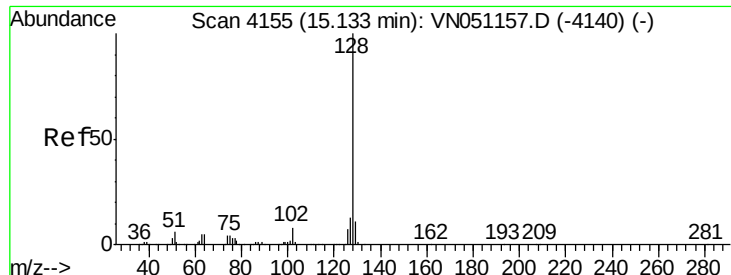
Tot Ion: 75 Resp: 150756
Ion Ratio Lower Upper
75 100
53 0.2 67.8 101.8#
89 0.0 36.0 54.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.70 ug/l
RT: 14.26 min Scan# 3883
Delta R.T. -0.01 min
Lab File: VN051195.D
Acq: 14 Sep 2018 17:14

Tgt Ion: 75 Resp: 29
Ion Ratio Lower Upper
75 100
155 0.0 48.7 146.1#
157 0.0 63.6 190.9#

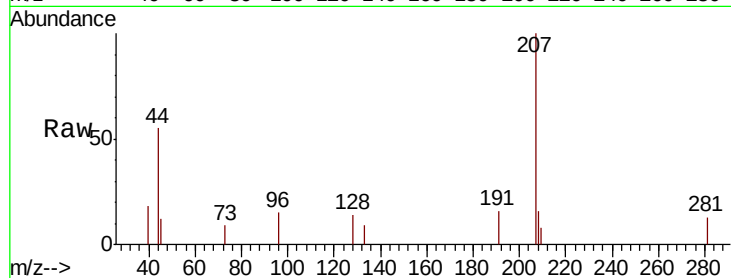




#95
 Naphthalene
 Concen: 5.36 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051195.D
 Acq: 14 Sep 2018 17:14

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112829ZHE#05

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	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

