

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051407.D
 Acq On : 23 Sep 2018 12:45
 Operator : MD\SY
 Sample : J4777-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-C

Quant Time: Sep 24 06:45:25 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

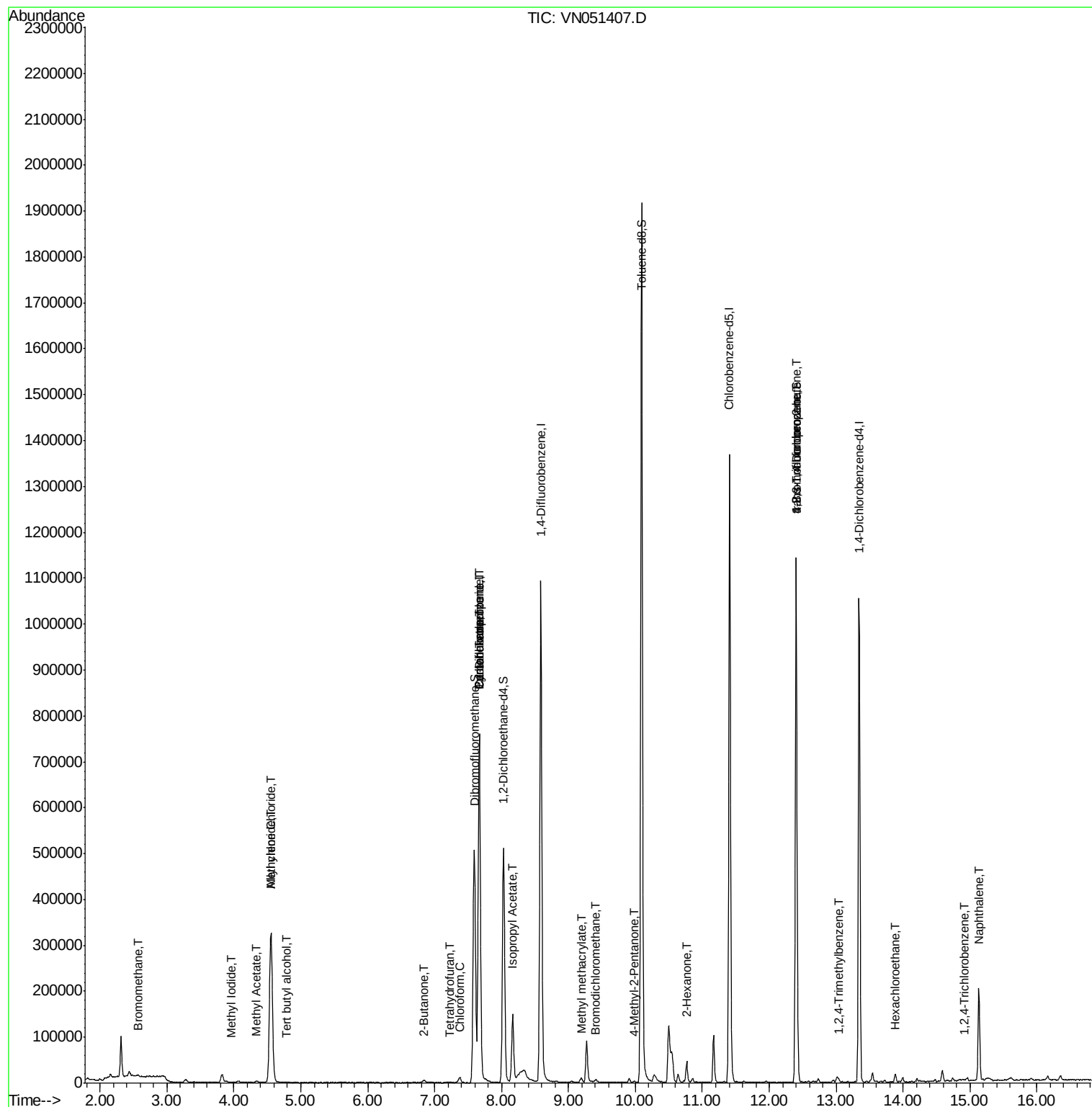
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	665312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	999175	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	832986	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	304120	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	442589	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
35) Dibromofluoromethane	7.59	113	393357	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
50) Toluene-d8	10.09	98	1403429	46.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.30%	
62) 4-Bromofluorobenzene	12.40	95	376118	38.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.28%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	2160	0.389	ug/l #	77
8) Diethyl Ether	3.41	74	598	Below Cal	#	1
10) Methyl Iodide	3.96	142	234	0.298	ug/l #	42
11) Tert butyl alcohol	4.79	59	281	0.597	ug/l #	78
14) Allyl chloride	4.55	41	9514	0.766	ug/l #	26
16) Acetone	3.82	43	30720	Below Cal		97
18) Methyl Acetate	4.33	43	3758	0.592	ug/l	95
20) Methylene Chloride	4.55	84	250193	30.337	ug/l	98
25) 2-Butanone	6.85	43	5756	2.018	ug/l	98
29) Tetrahydrofuran	7.22	42	1150	0.636	ug/l #	40
30) Chloroform	7.37	83	12582	0.886	ug/l	93
31) Cyclohexane	7.66	56	12058	0.919	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47252	4.084	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61858	5.111	ug/l #	16
43) Isopropyl Acetate	8.17	43	170836	14.201	ug/l	99
47) Bromodichloromethane	9.41	83	3584	0.310	ug/l #	88
48) Methyl methacrylate	9.18	41	5146	0.858	ug/l #	21
51) 4-Methyl-2-Pentanone	9.98	43	3252	0.492	ug/l #	79
59) 2-Hexanone	10.76	43	6828	1.592	ug/l	64
76) 1,2,3-Trichloropropane	12.40	75	187720	37.183	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187720	114.334	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4404	0.209	ug/l	96
90) Hexachloroethane	13.89	117	903	0.208	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	788	6.100	ug/l #	59
95) Naphthalene	15.13	128	176398	21.135	ug/l	99

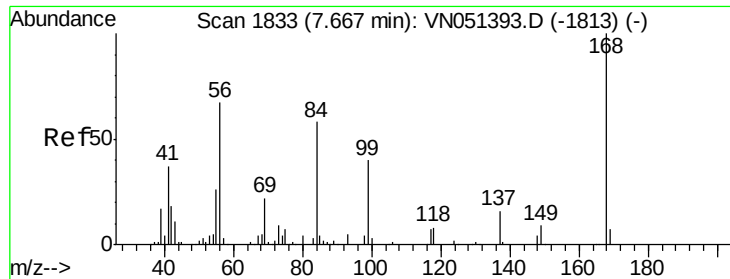
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

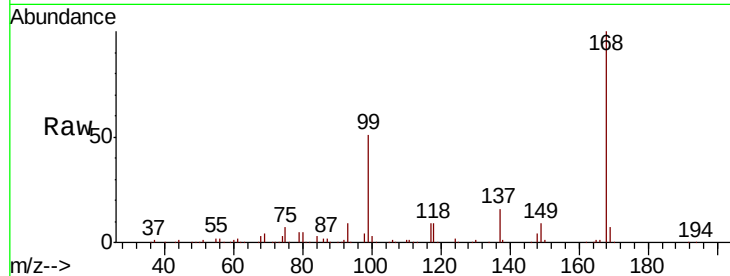
PL-02-0920-18-C

Tgt Ion:168 Resp: 665312

Ion Ratio Lower Upper

168 100

99 51.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

300000

250000

200000

150000

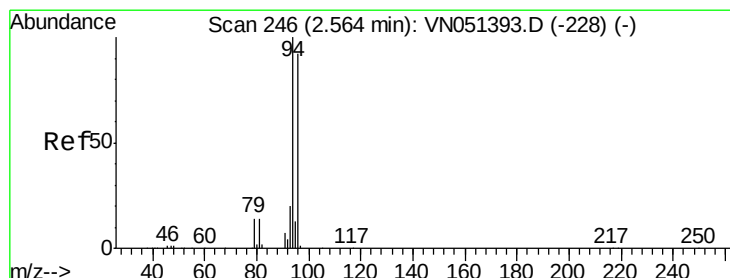
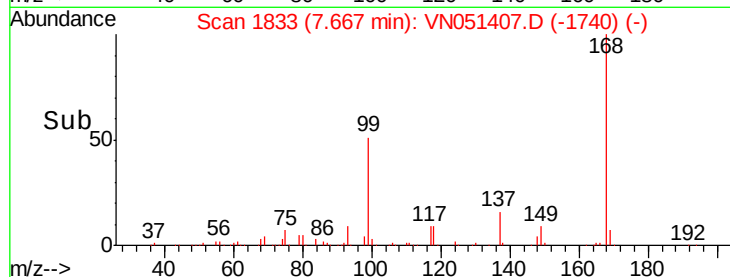
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: 0.389 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051407.D

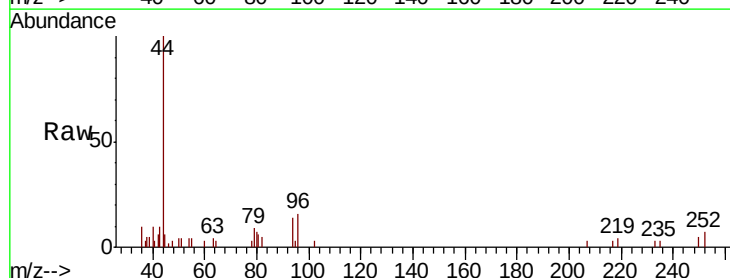
Acq: 23 Sep 2018 12:45

Tgt Ion: 94 Resp: 2160

Ion Ratio Lower Upper

94 100

96 113.7 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

1000

800

600

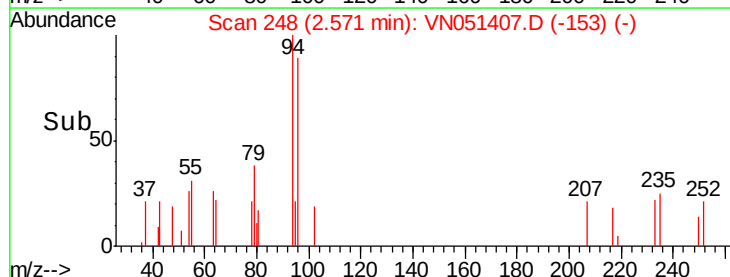
400

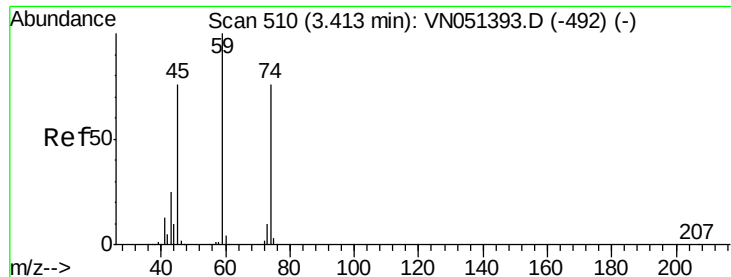
200

0

2.50 2.55 2.60

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 508

Delta R.T. -0.01 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

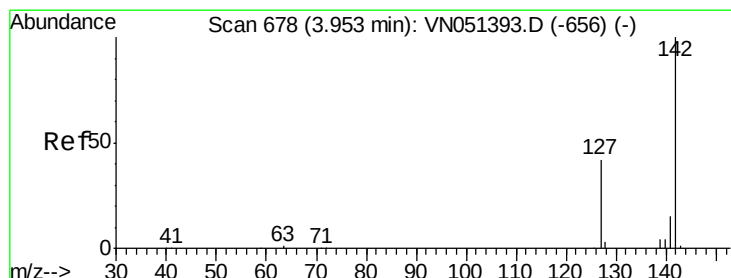
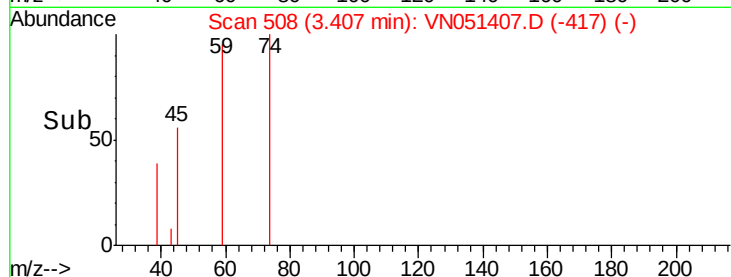
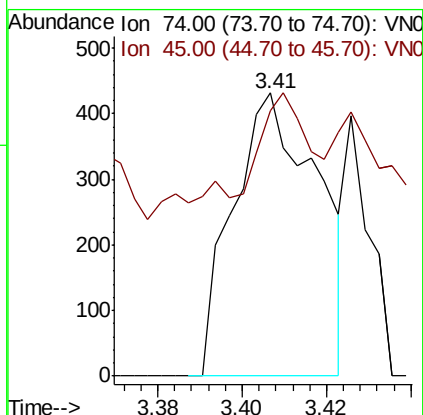
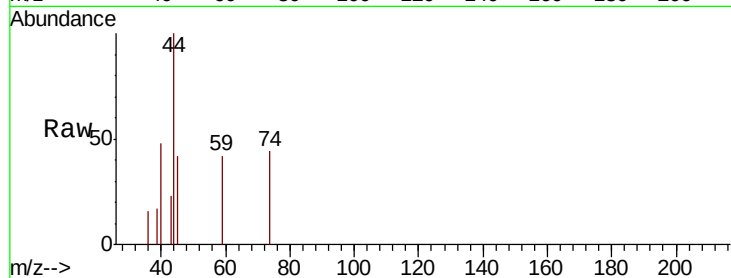
PL-02-0920-18-C

Tgt Ion: 74 Resp: 598

Ion Ratio Lower Upper

74 100

45 0.0 50.2 150.7#



#10

Methyl Iodide

Concen: 0.298 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

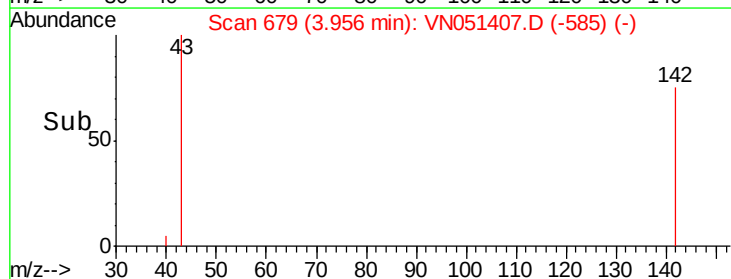
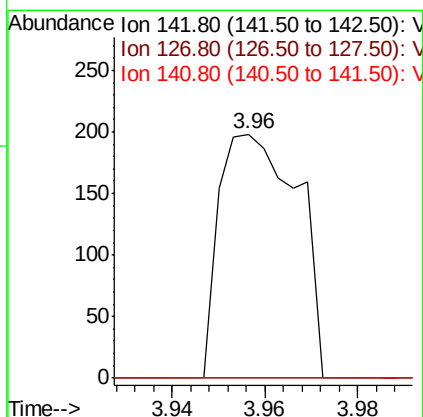
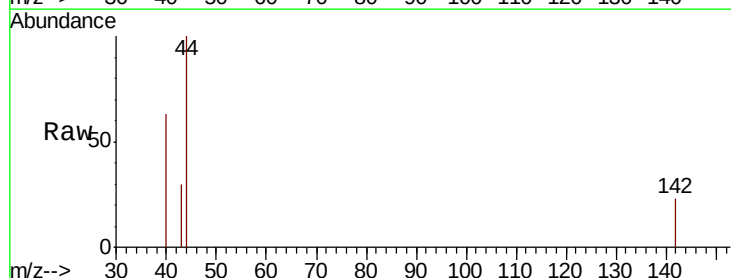
Tgt Ion: 142 Resp: 234

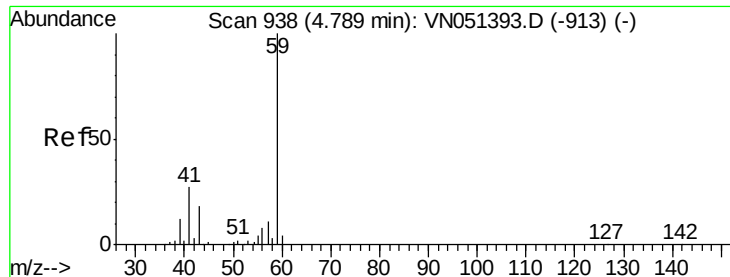
Ion Ratio Lower Upper

142 100

127 0.0 33.2 49.8#

141 0.0 11.5 17.3#

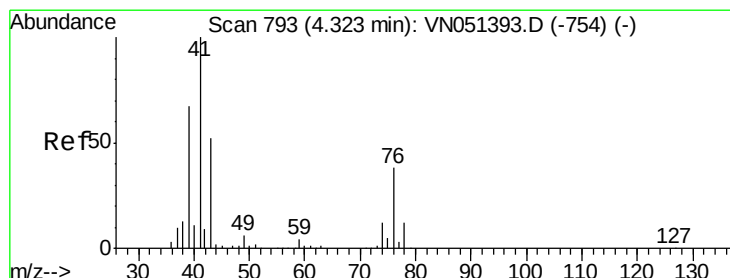
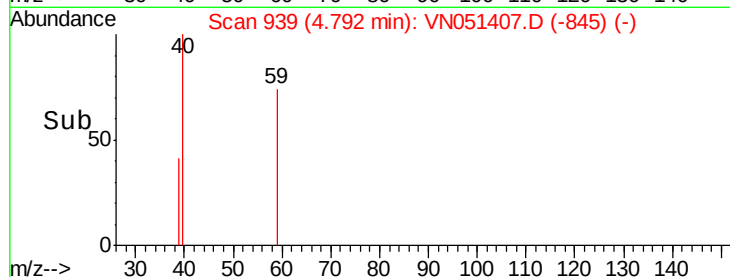
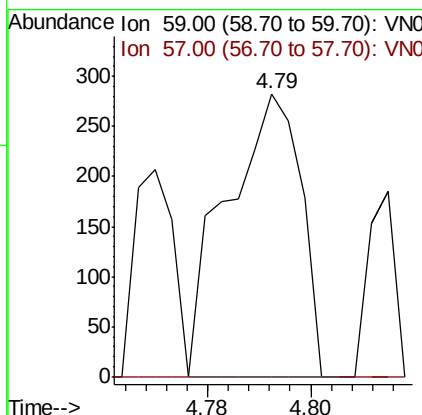
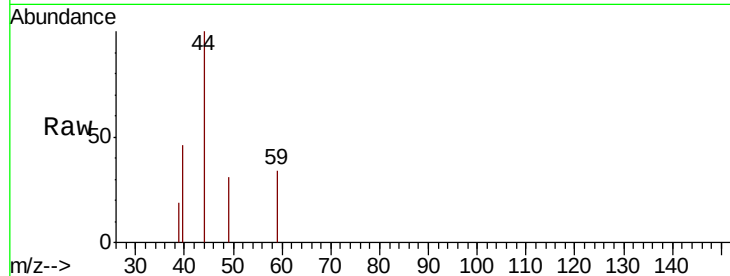




#11
Tert butyl alcohol
Concen: 0.597 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

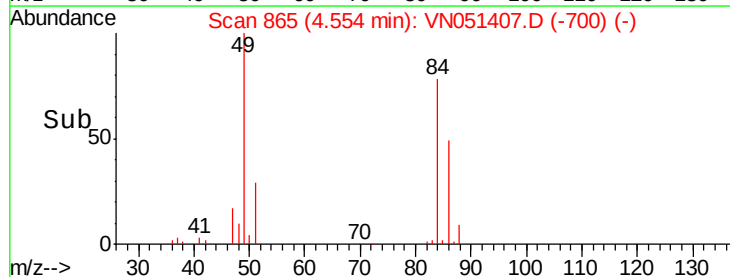
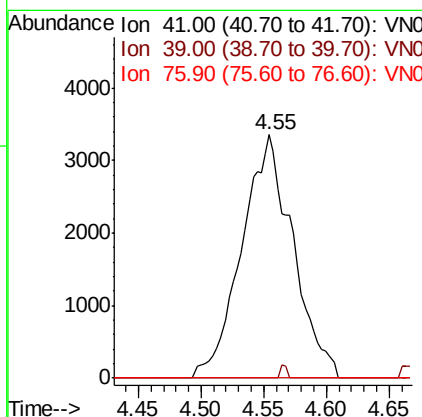
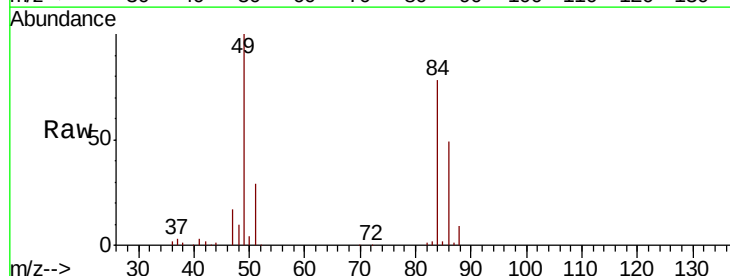
Instrument :
MSVOA_N
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PL-02-0920-18-C

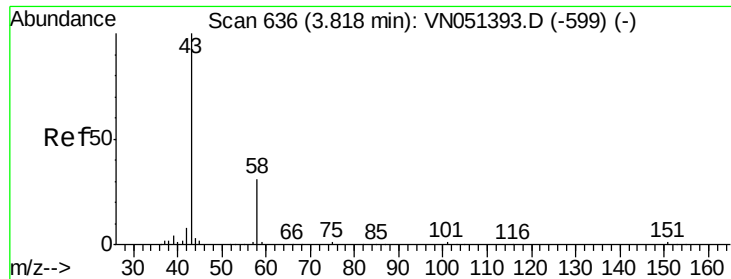
Tgt Ion: 59 Resp: 281
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#



#14
Allyl chloride
Concen: 0.766 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

Tgt Ion: 41 Resp: 9514
Ion Ratio Lower Upper
41 100
39 0.7 51.4 77.2#
76 0.0 28.1 42.1#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

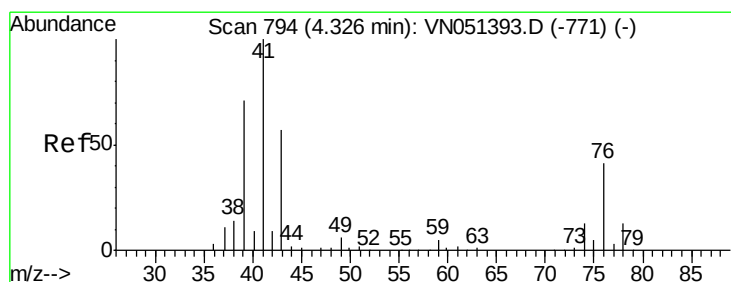
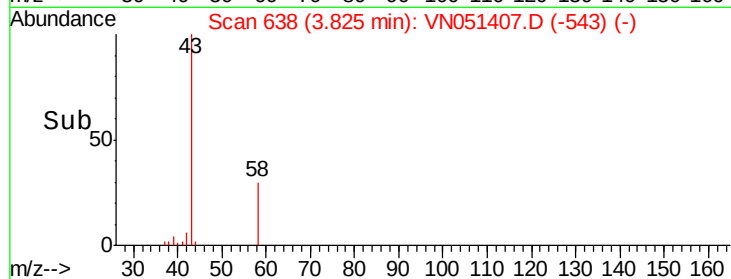
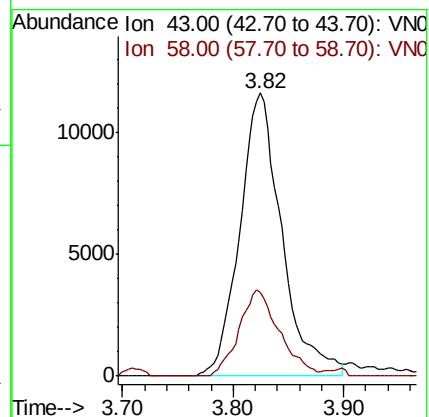
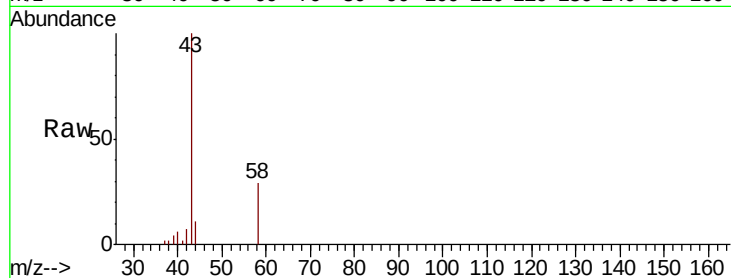
PL-02-0920-18-C

Tgt Ion: 43 Resp: 30720

Ion Ratio Lower Upper

43 100

58 29.4 25.0 37.4



#18

Methyl Acetate

Concen: 0.592 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051407.D

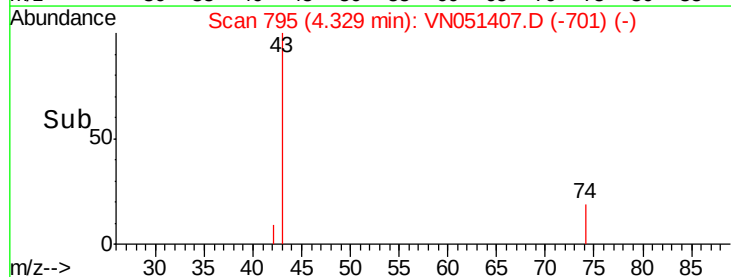
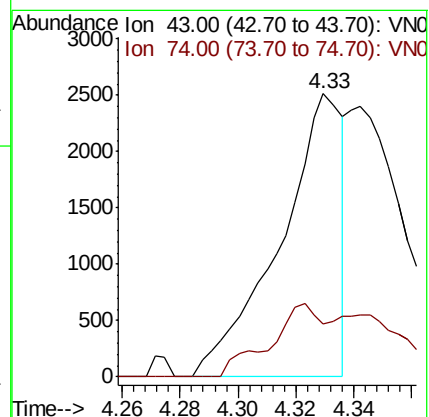
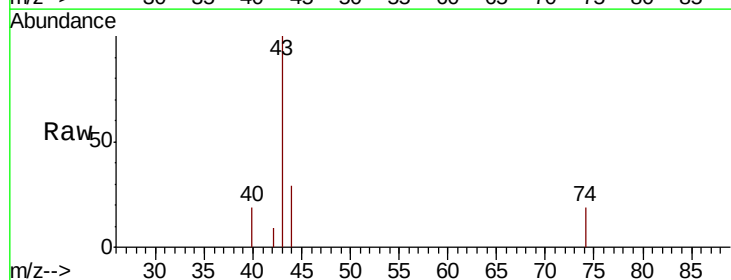
Acq: 23 Sep 2018 12:45

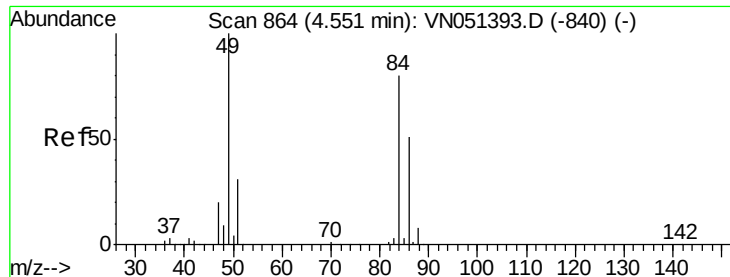
Tgt Ion: 43 Resp: 3758

Ion Ratio Lower Upper

43 100

74 21.3 18.8 28.2

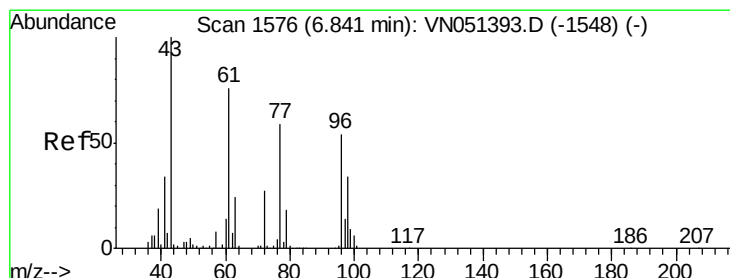
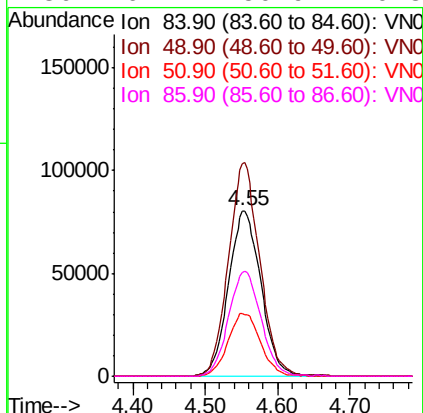
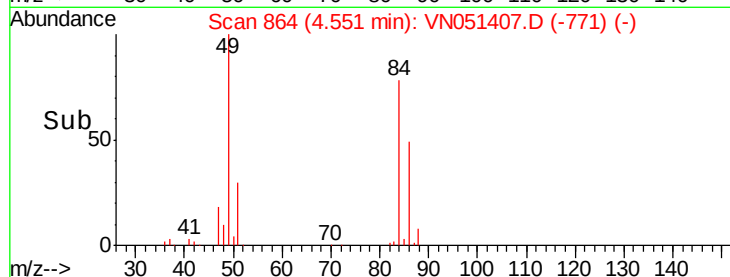
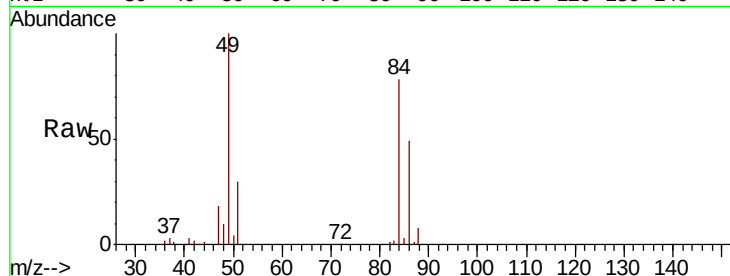




#20
Methylene Chloride
Concen: 30.337 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

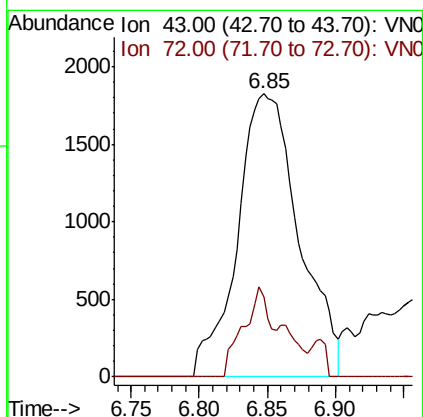
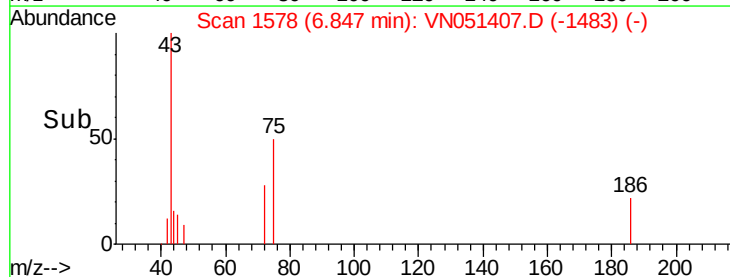
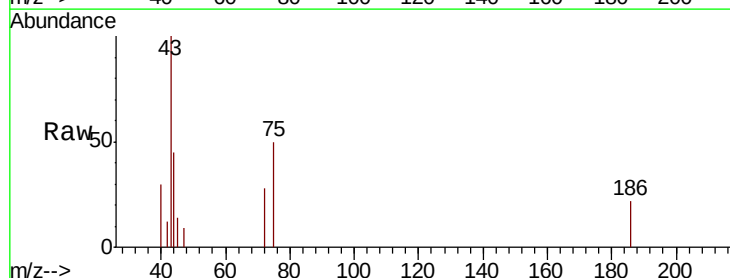
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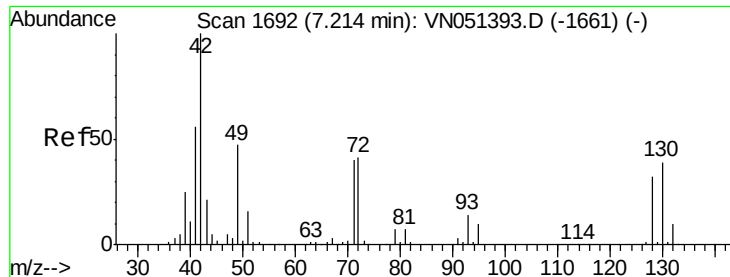
Tgt Ion: 84 Resp: 250193
Ion Ratio Lower Upper
84 100
49 127.9 99.9 149.9
51 38.1 31.4 47.2
86 62.7 50.9 76.3



#25
2-Butanone
Concen: 2.018 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

Tgt Ion: 43 Resp: 5756
Ion Ratio Lower Upper
43 100
72 28.0 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.636 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

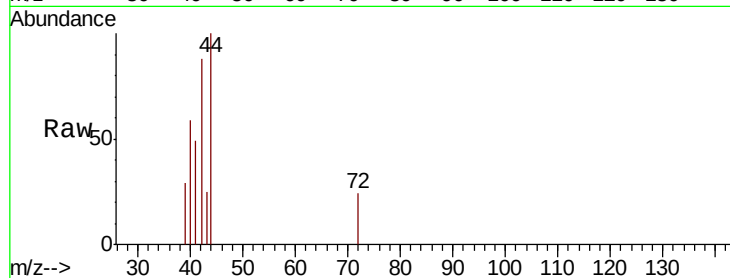
Tgt Ion: 42 Resp: 1150

Ion Ratio Lower Upper

42 100

72 7.8 34.3 51.5#

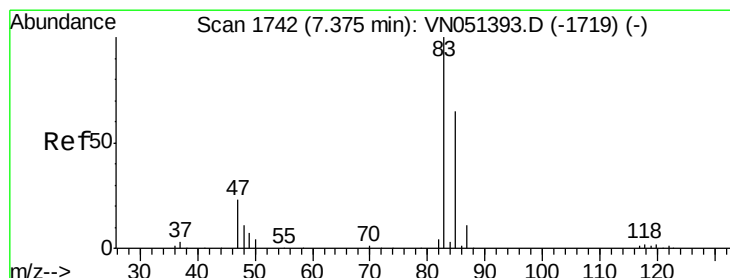
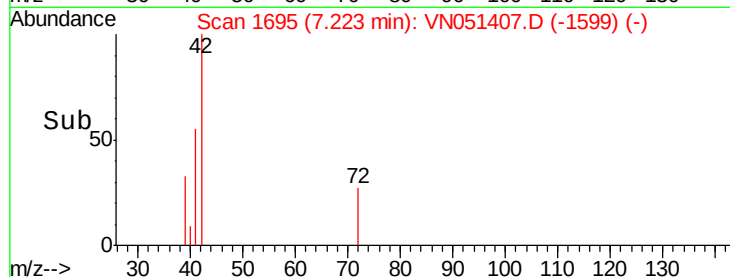
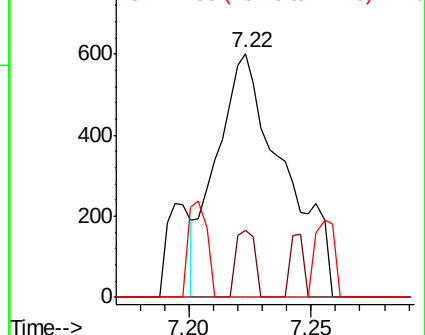
71 0.0 32.2 48.4#



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



#30

Chloroform

Concen: 0.886 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051407.D

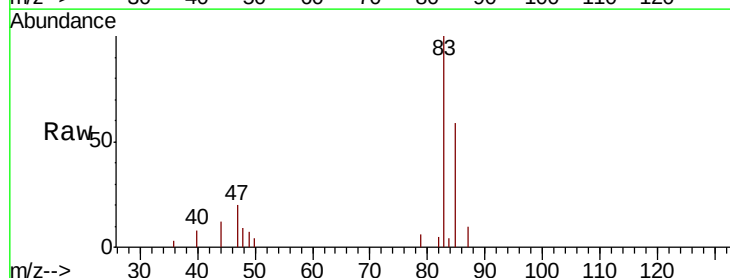
Acq: 23 Sep 2018 12:45

Tgt Ion: 83 Resp: 12582

Ion Ratio Lower Upper

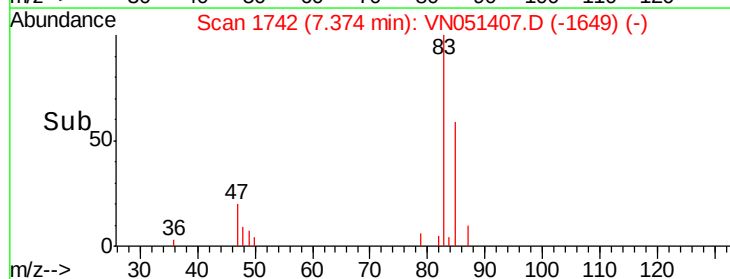
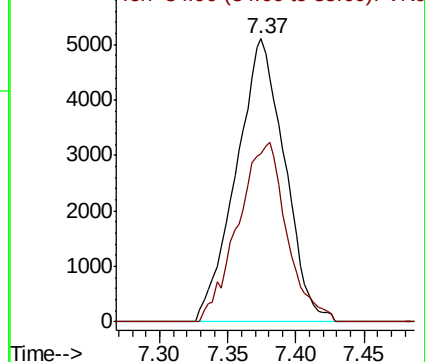
83 100

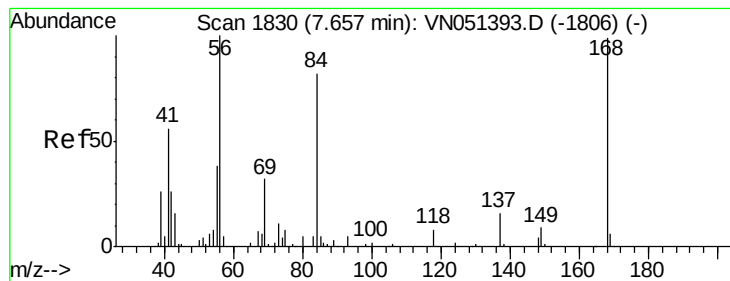
85 59.4 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.919 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

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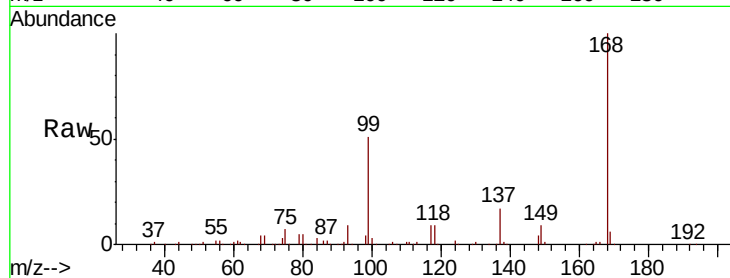
Tgt Ion: 56 Resp: 12058

Ion Ratio Lower Upper

56 100

69 190.9 25.8 38.6#

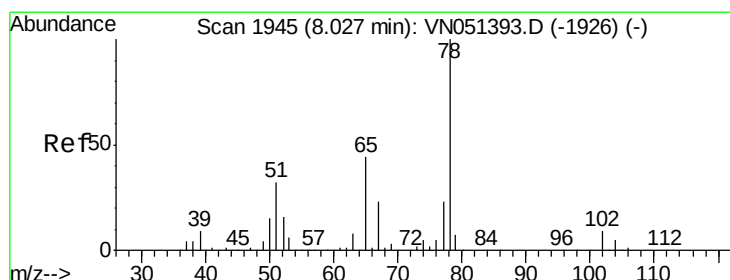
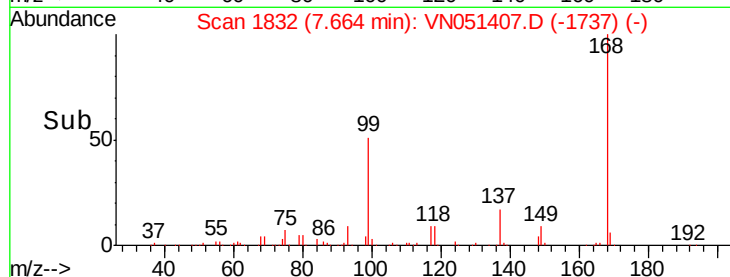
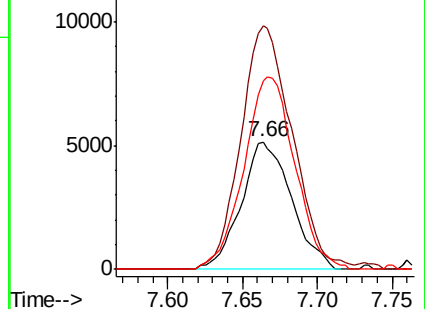
84 147.5 66.0 99.0#



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: 53.105 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051407.D

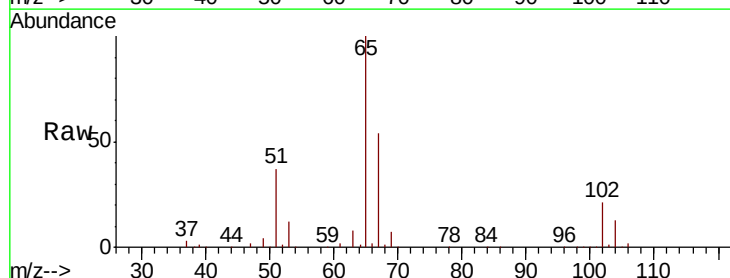
Acq: 23 Sep 2018 12:45

Tgt Ion: 65 Resp: 442589

Ion Ratio Lower Upper

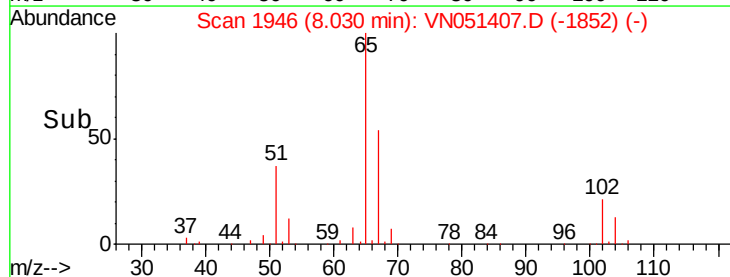
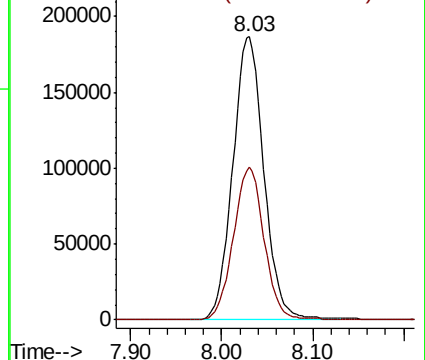
65 100

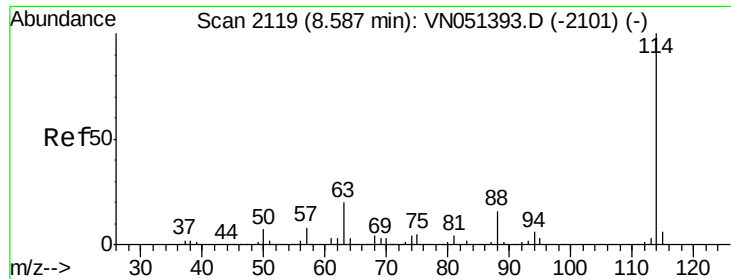
67 53.2 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

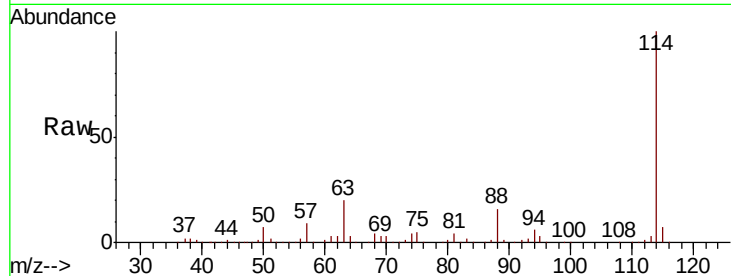
Tgt Ion:114 Resp: 999175

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN

600000

500000

400000

300000

200000

100000

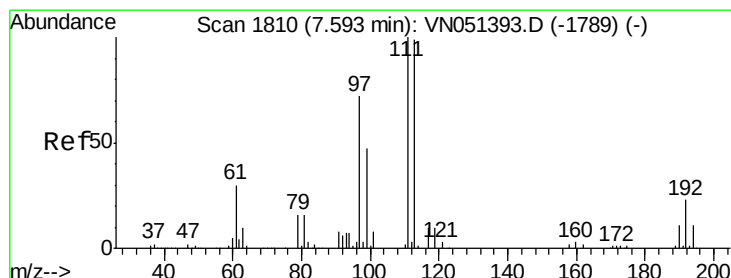
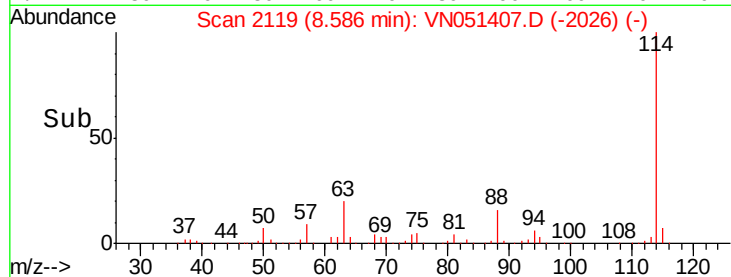
0

8.50

8.60

8.70

Time-->



#35

Dibromofluoromethane

Concen: 49.231 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

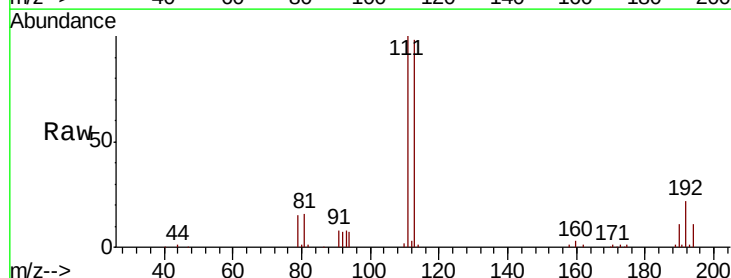
Tgt Ion:113 Resp: 393357

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

192 22.1 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

200000

150000

100000

50000

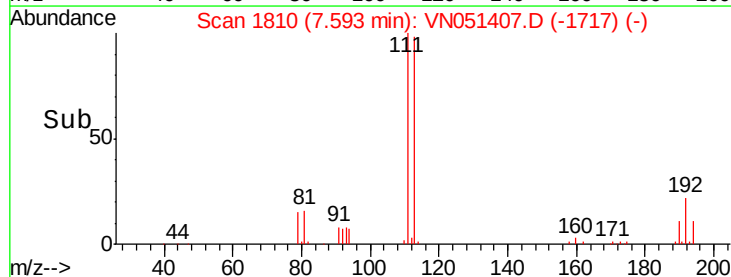
0

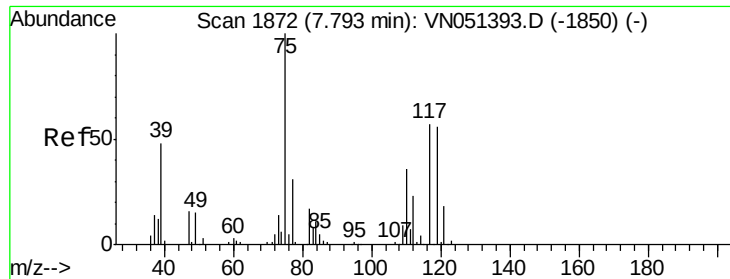
7.50

7.60

7.70

Time-->

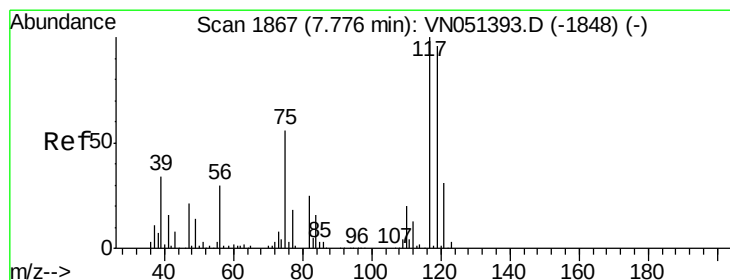
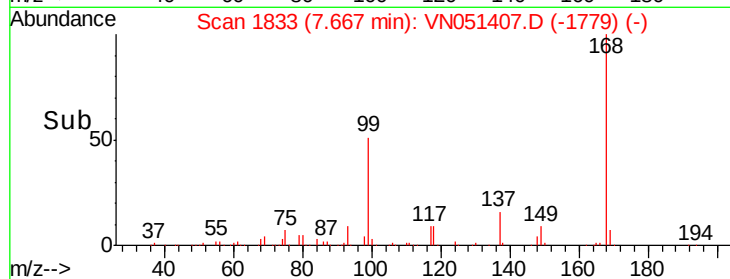
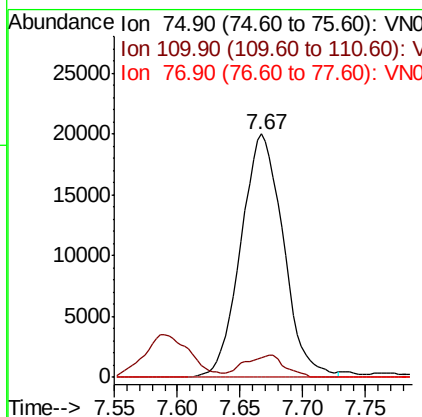
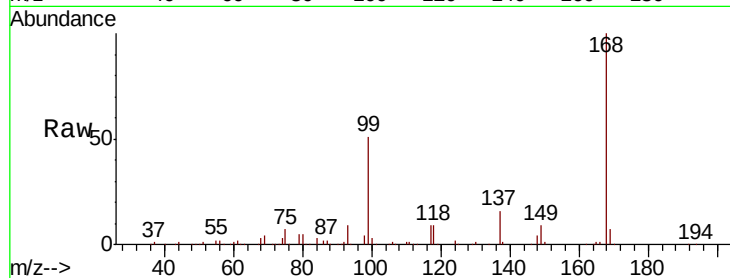




#36
 1,1-Dichloropropene
 Concen: 4.084 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

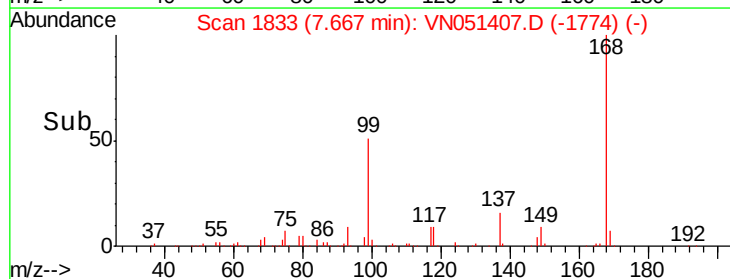
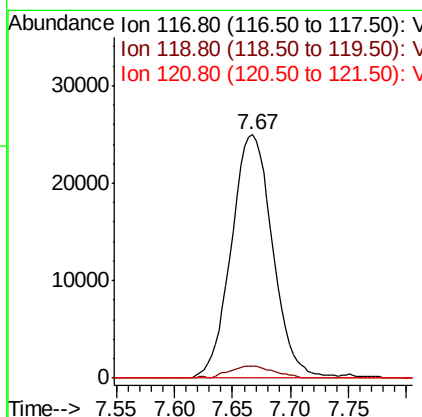
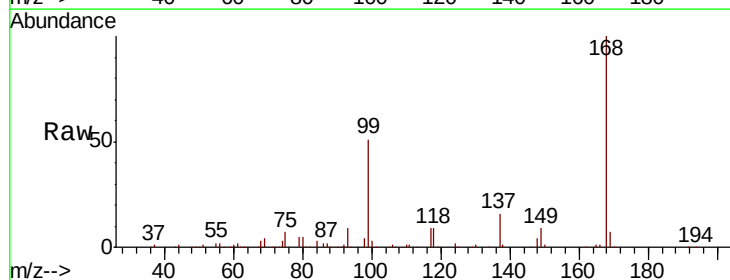
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-C

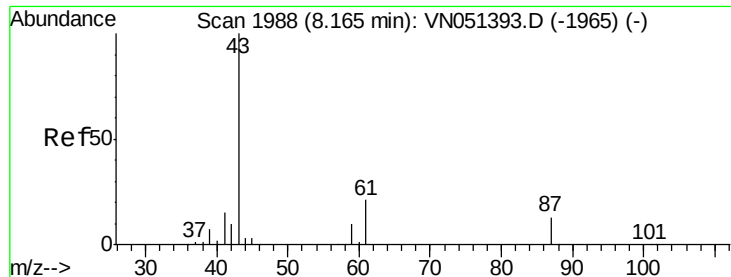
Tgt Ion: 75 Resp: 47252
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.6 38.4#



#38
 Carbon Tetrachloride
 Concen: 5.111 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

Tgt Ion: 117 Resp: 61858
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.9 115.3#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 14.201 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

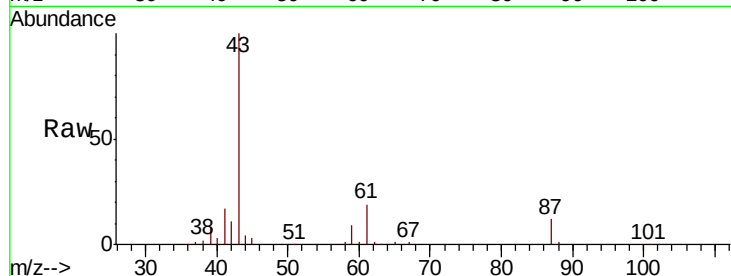
Tgt Ion: 43 Resp: 170836

Ion Ratio Lower Upper

43 100

61 20.0 16.8 25.2

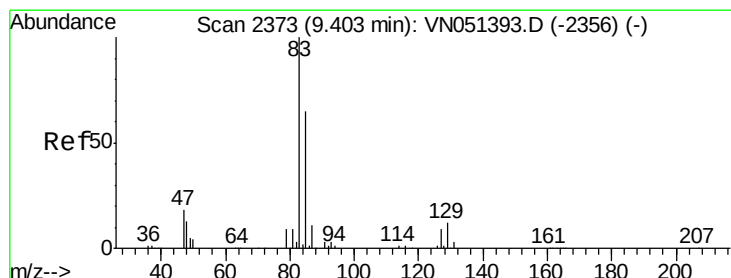
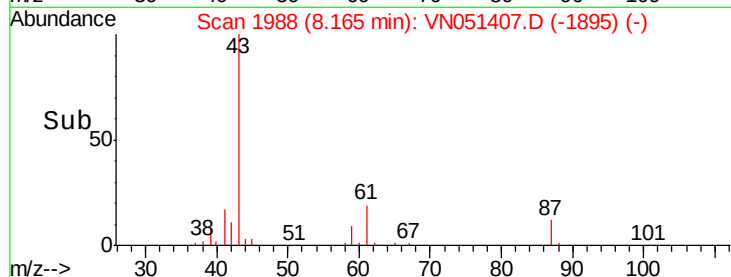
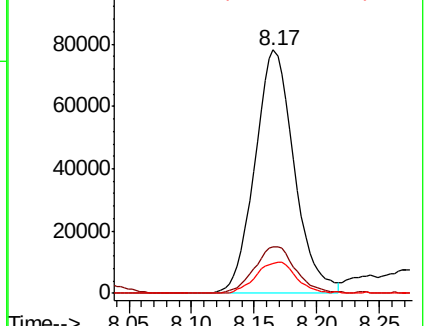
87 13.4 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VN051407.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN051407.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN051407.D (-1895) (-)



#47

Bromodichloromethane

Concen: 0.310 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

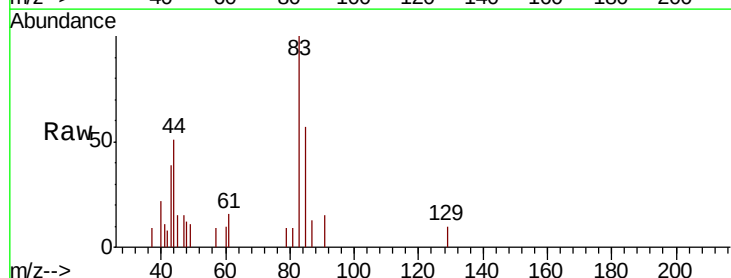
Tgt Ion: 83 Resp: 3584

Ion Ratio Lower Upper

83 100

85 56.7 51.8 77.6

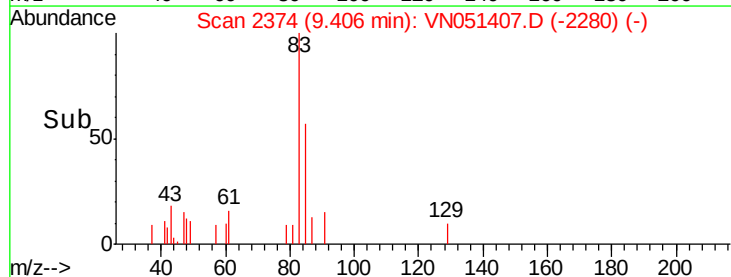
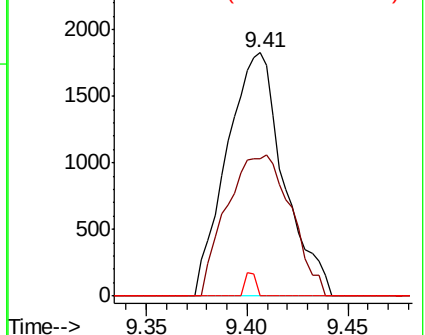
127 0.0 7.4 11.2#

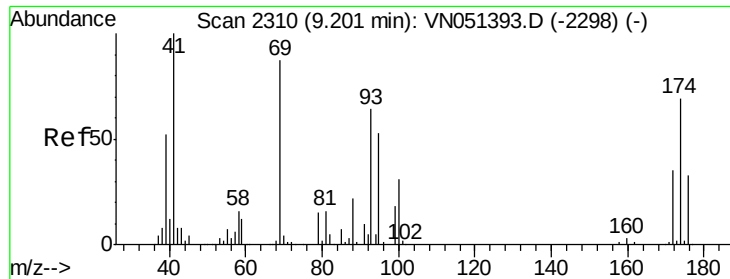


Abundance Ion 82.90 (82.60 to 83.60): VN051407.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051407.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051407.D (-2280) (-)

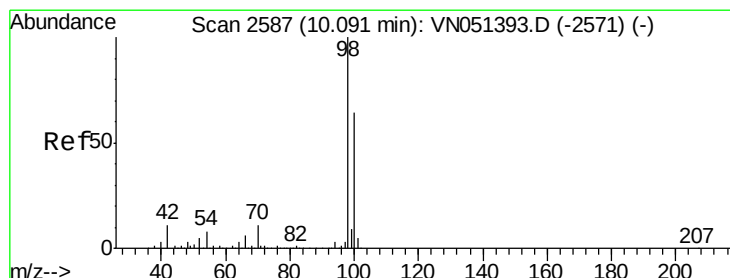
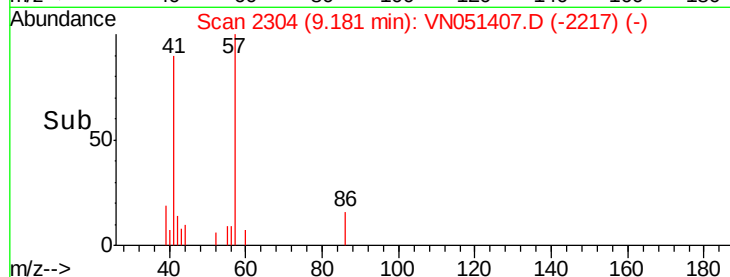
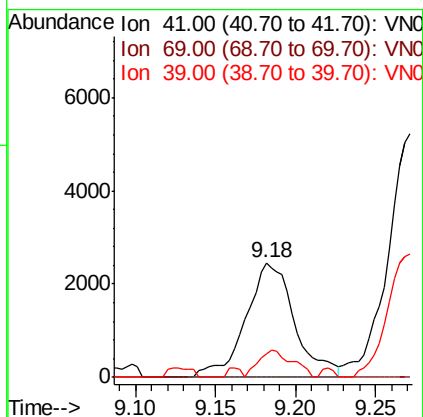
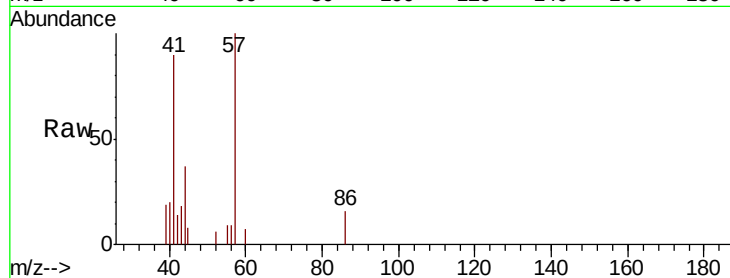




#48
Methyl methacrylate
Concen: 0.858 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

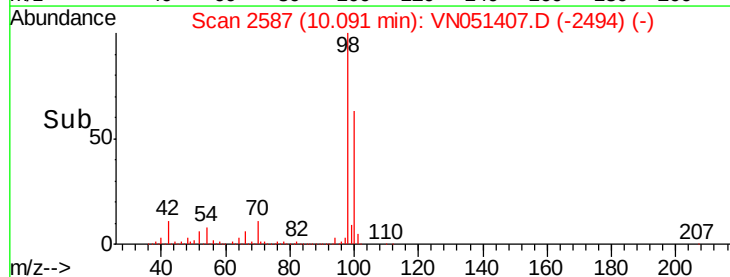
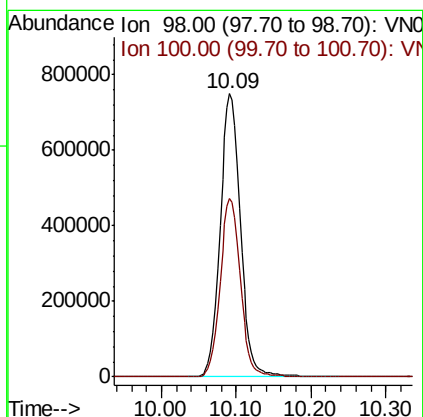
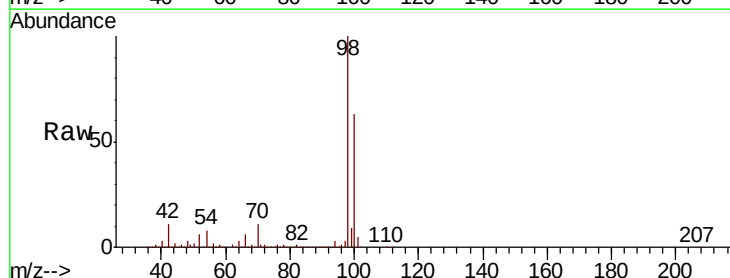
Instrument :
MSVOA_N
ClientSampled :
PL-02-0920-18-C

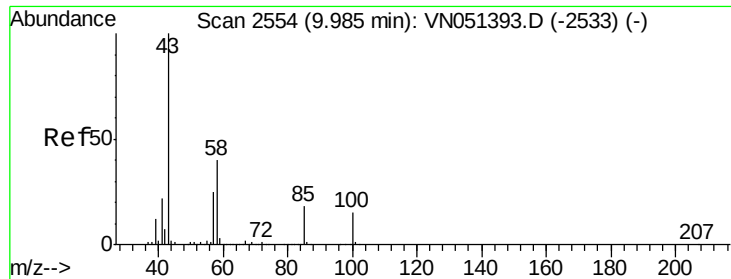
Tgt Ion: 41 Resp: 5146
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 16.5 43.8 65.8#



#50
Toluene-d8
Concen: 46.645 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

Tgt Ion: 98 Resp: 1403429
Ion Ratio Lower Upper
98 100
100 63.1 50.6 75.8

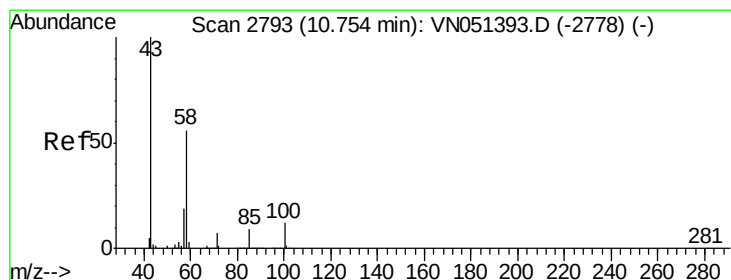
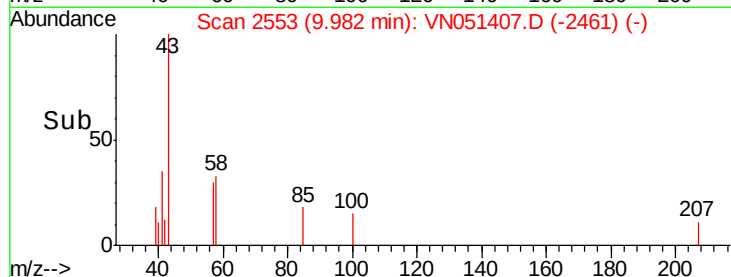
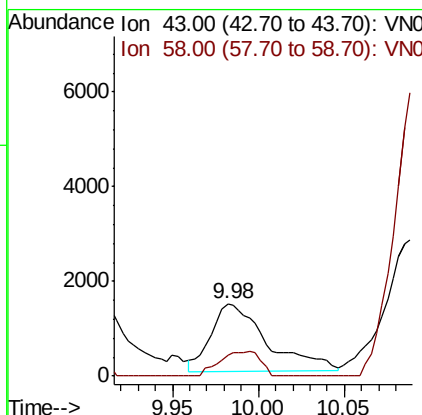
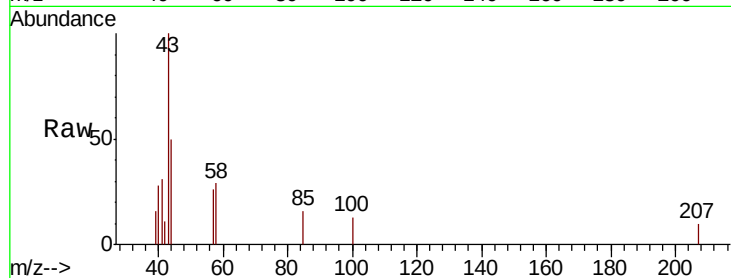




#51
 4-Methyl-2-Pentanone
 Concen: 0.492 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

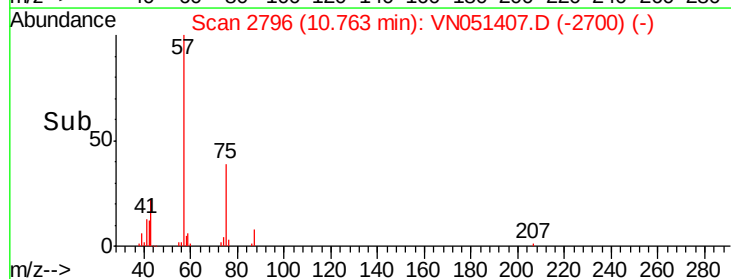
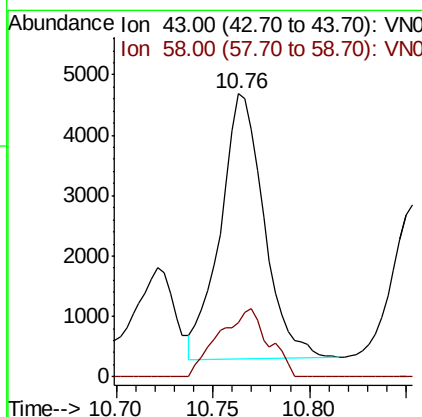
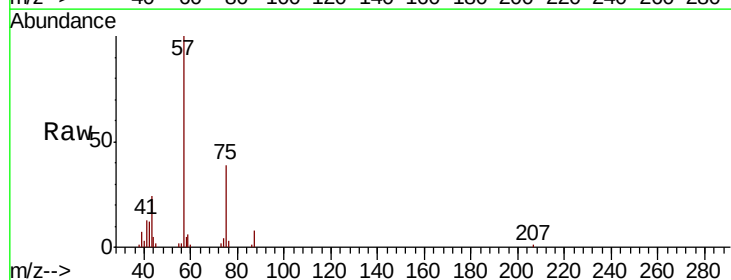
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-C

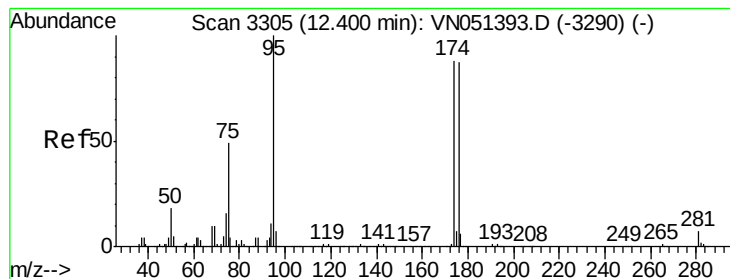
Tgt Ion: 43 Resp: 3252
 Ion Ratio Lower Upper
 43 100
 58 26.3 31.5 47.3#



#59
 2-Hexanone
 Concen: 1.592 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

Tgt Ion: 43 Resp: 6828
 Ion Ratio Lower Upper
 43 100
 58 29.3 27.7 83.0





#62

4-Bromofluorobenzene

Concen: 38.643 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

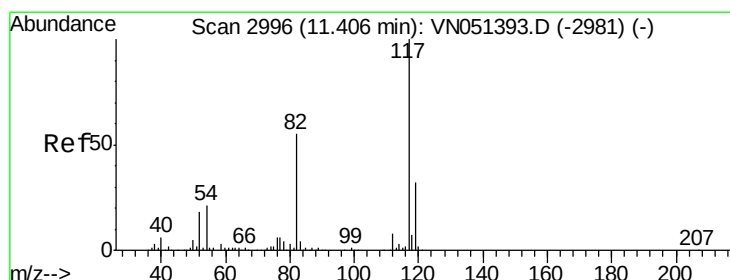
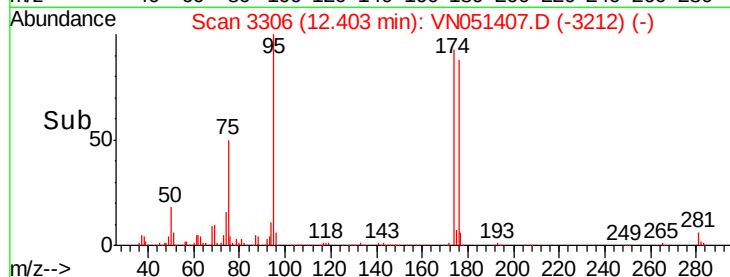
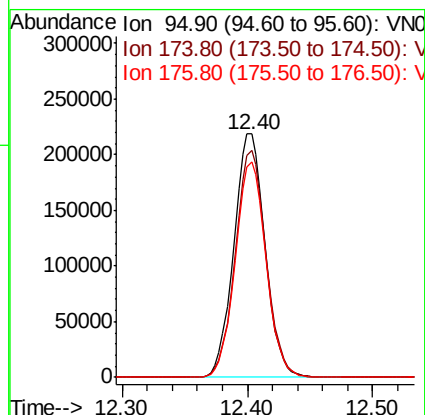
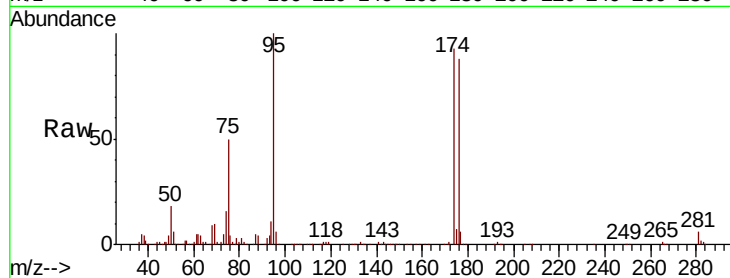
Tgt Ion: 95 Resp: 376118

Ion Ratio Lower Upper

95 100

174 92.1 0.0 181.6

176 87.6 0.0 176.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

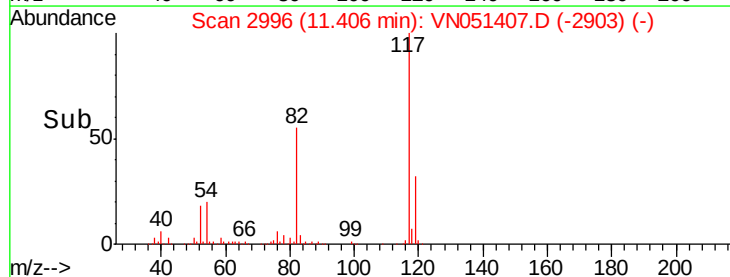
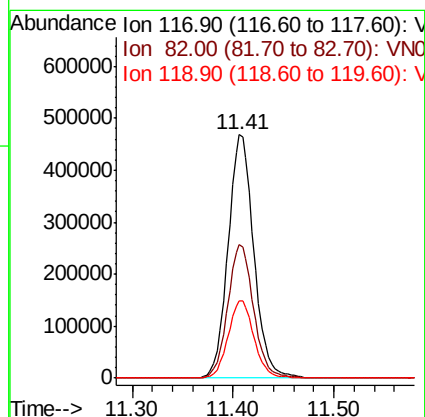
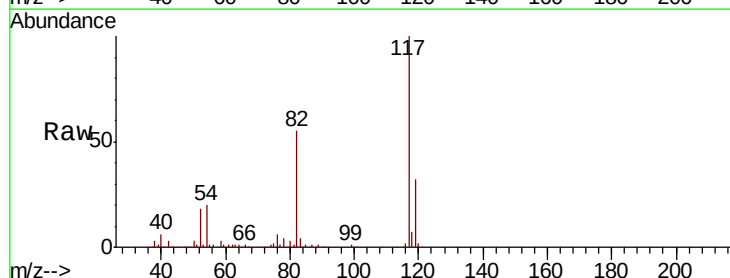
Tgt Ion: 117 Resp: 832986

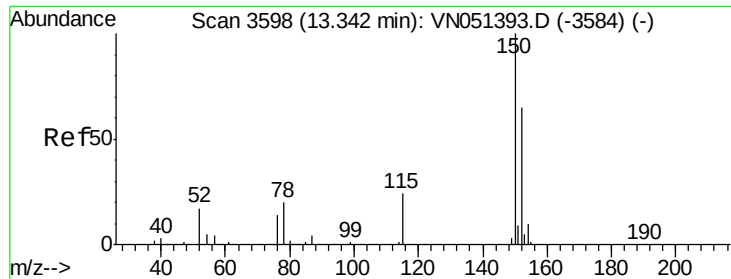
Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

119 31.6 25.9 38.9



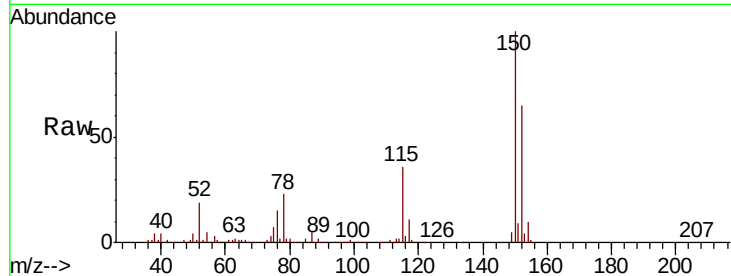


#72

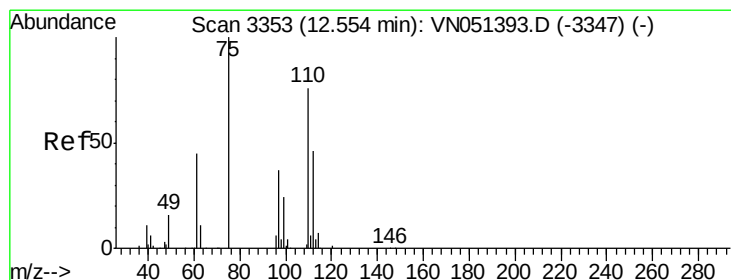
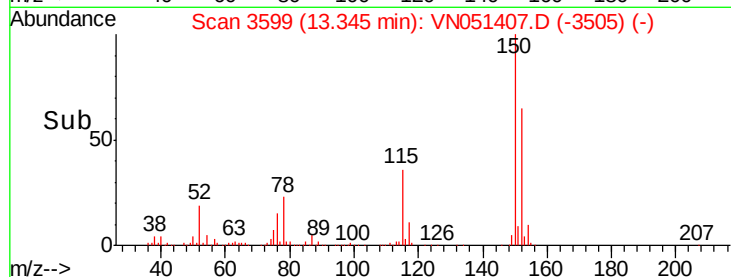
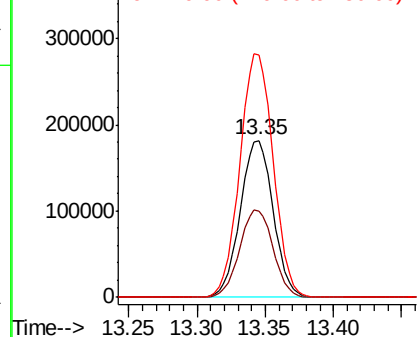
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-C

Tgt Ion:152 Resp: 304120
Ion Ratio Lower Upper
152 100
115 56.8 28.3 84.9
150 157.5 0.0 353.6



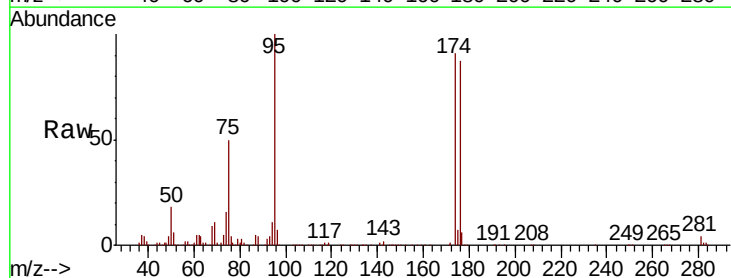
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



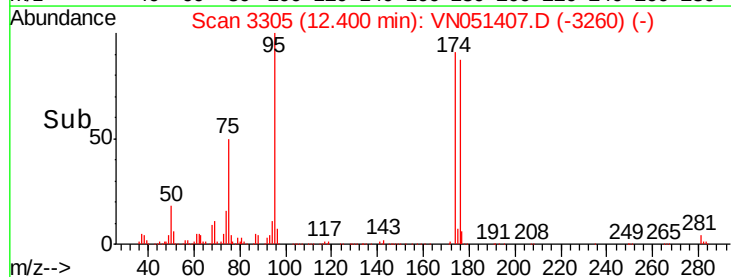
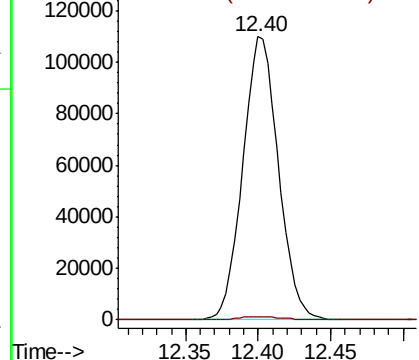
#76

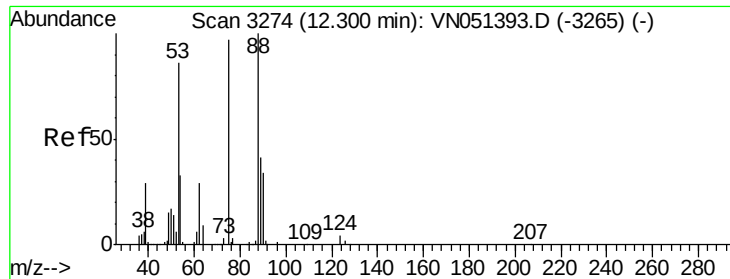
1,2,3-Trichloropropane
Concen: 37.183 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN051407.D
Acq: 23 Sep 2018 12:45

Tgt Ion: 75 Resp: 187720
Ion Ratio Lower Upper
75 100
77 1.4 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: 114.334 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

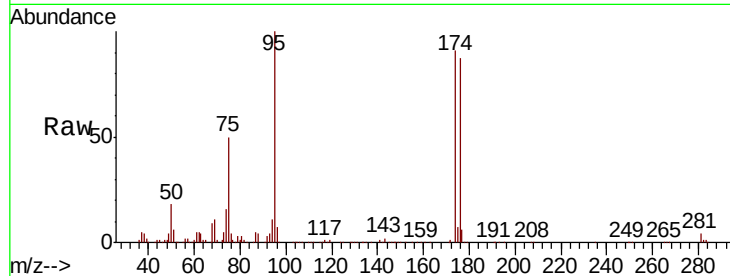
Tgt Ion: 75 Resp: 187720

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

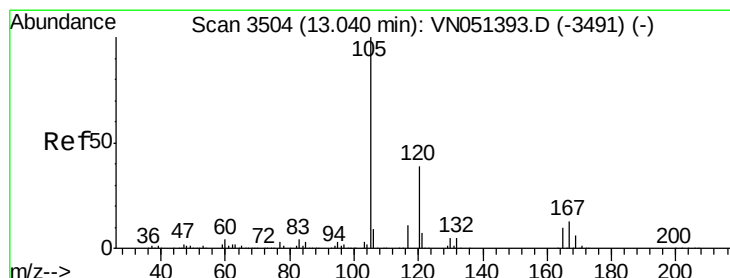
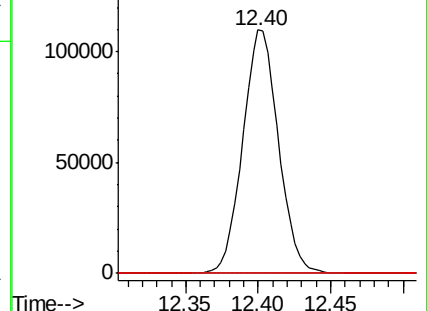
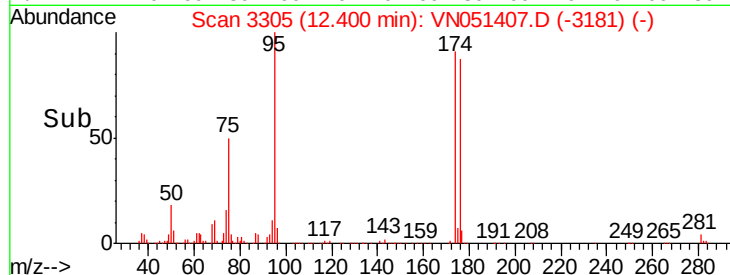
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051407.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051407.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051407.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.209 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN051407.D

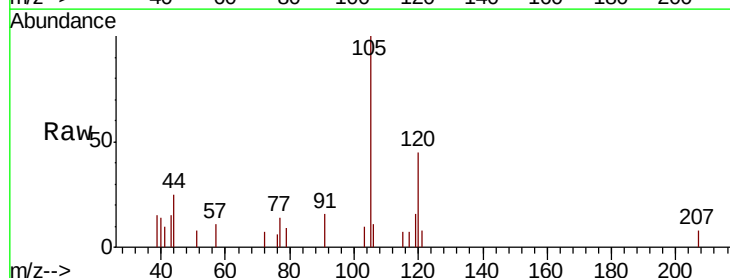
Acq: 23 Sep 2018 12:45

Tgt Ion: 105 Resp: 4404

Ion Ratio Lower Upper

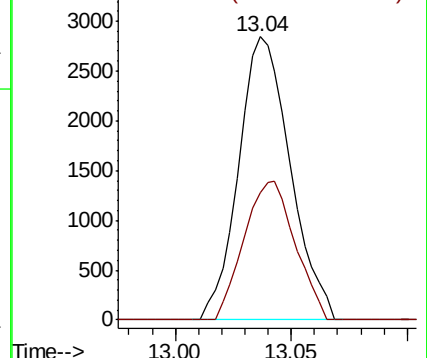
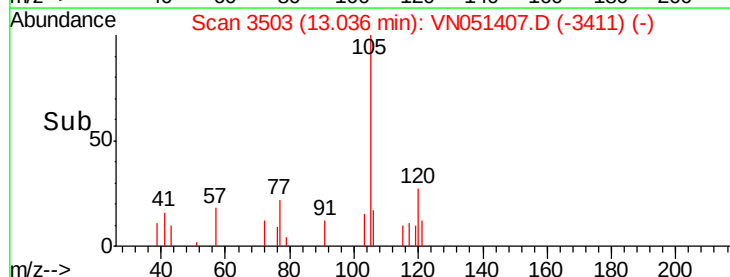
105 100

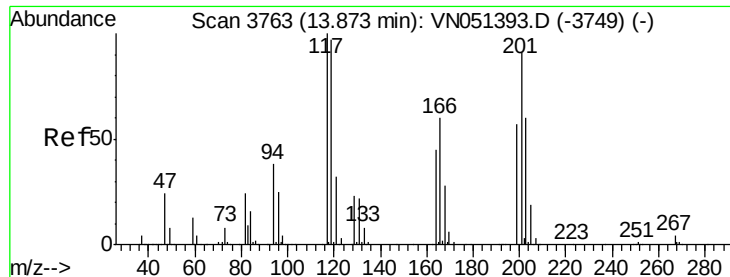
120 48.5 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051407.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN051407.D (-3411) (-)

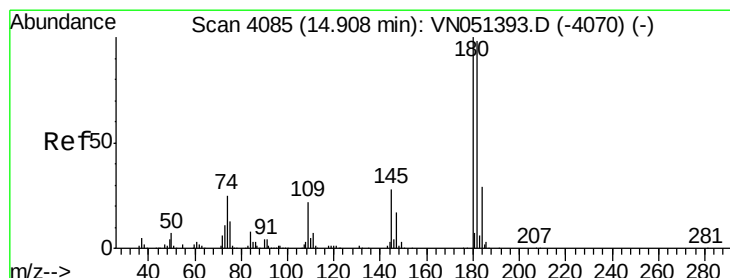
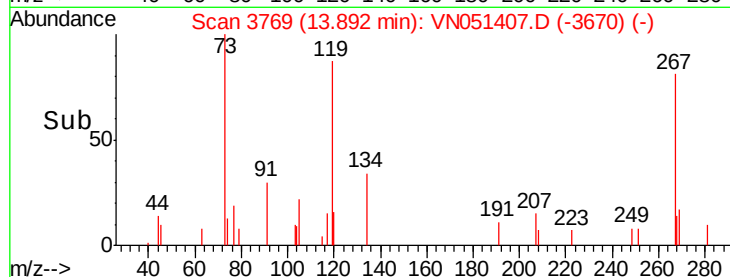
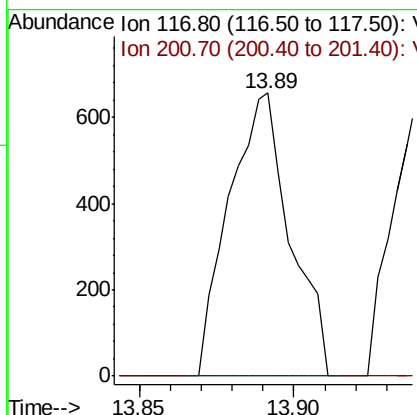
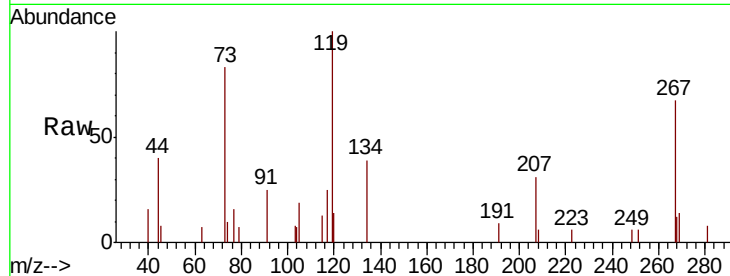




#90
 Hexachloroethane
 Concen: 0.208 ug/l
 RT: 13.89 min Scan# 3769
 Delta R.T. 0.02 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

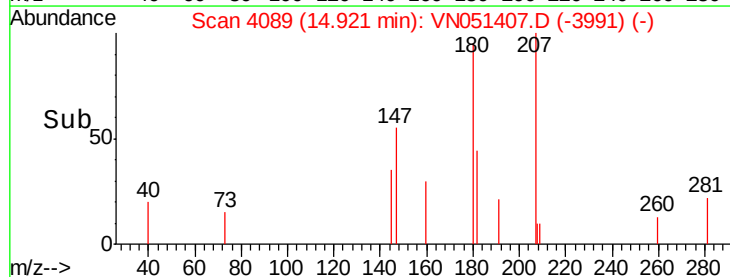
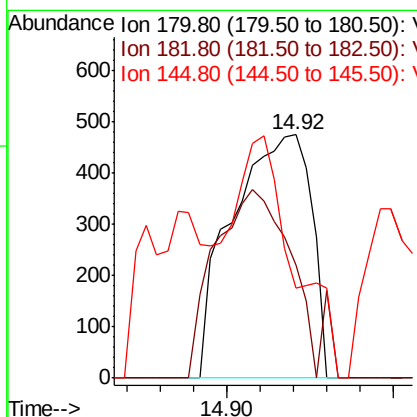
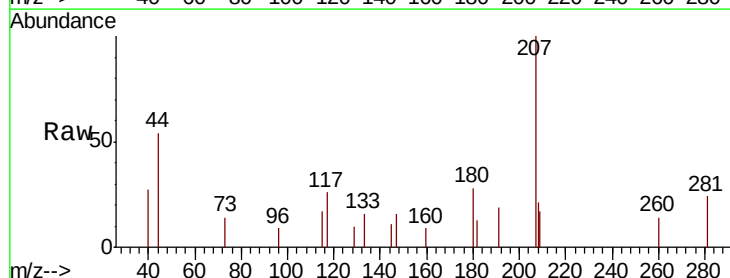
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-C

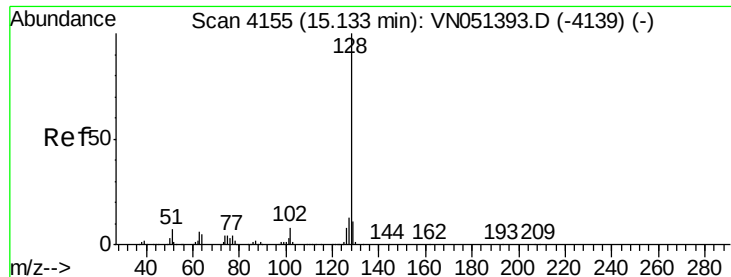
Tgt Ion:117 Resp: 903
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.5 136.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 6.100 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN051407.D
 Acq: 23 Sep 2018 12:45

Tgt Ion:180 Resp: 788
 Ion Ratio Lower Upper
 180 100
 182 73.1 48.5 145.6
 145 79.2 14.1 42.4#





#95

Naphthalene

Concen: 21.135 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051407.D

Acq: 23 Sep 2018 12:45

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-C

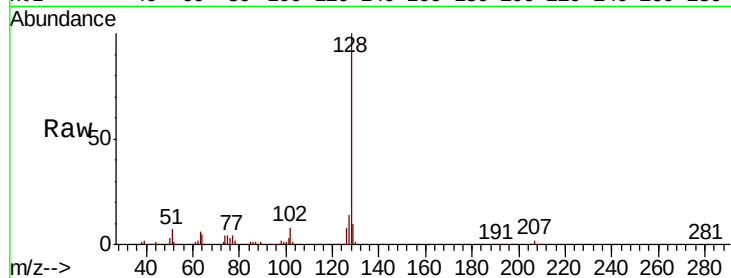
Tgt Ion:128 Resp: 176398

Ion Ratio Lower Upper

128 100

127 14.0 10.5 15.7

129 10.8 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

