

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051413.D
 Acq On : 23 Sep 2018 15:12
 Operator : MD\SY
 Sample : J4777-28
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-B

Quant Time: Sep 24 06:46:35 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

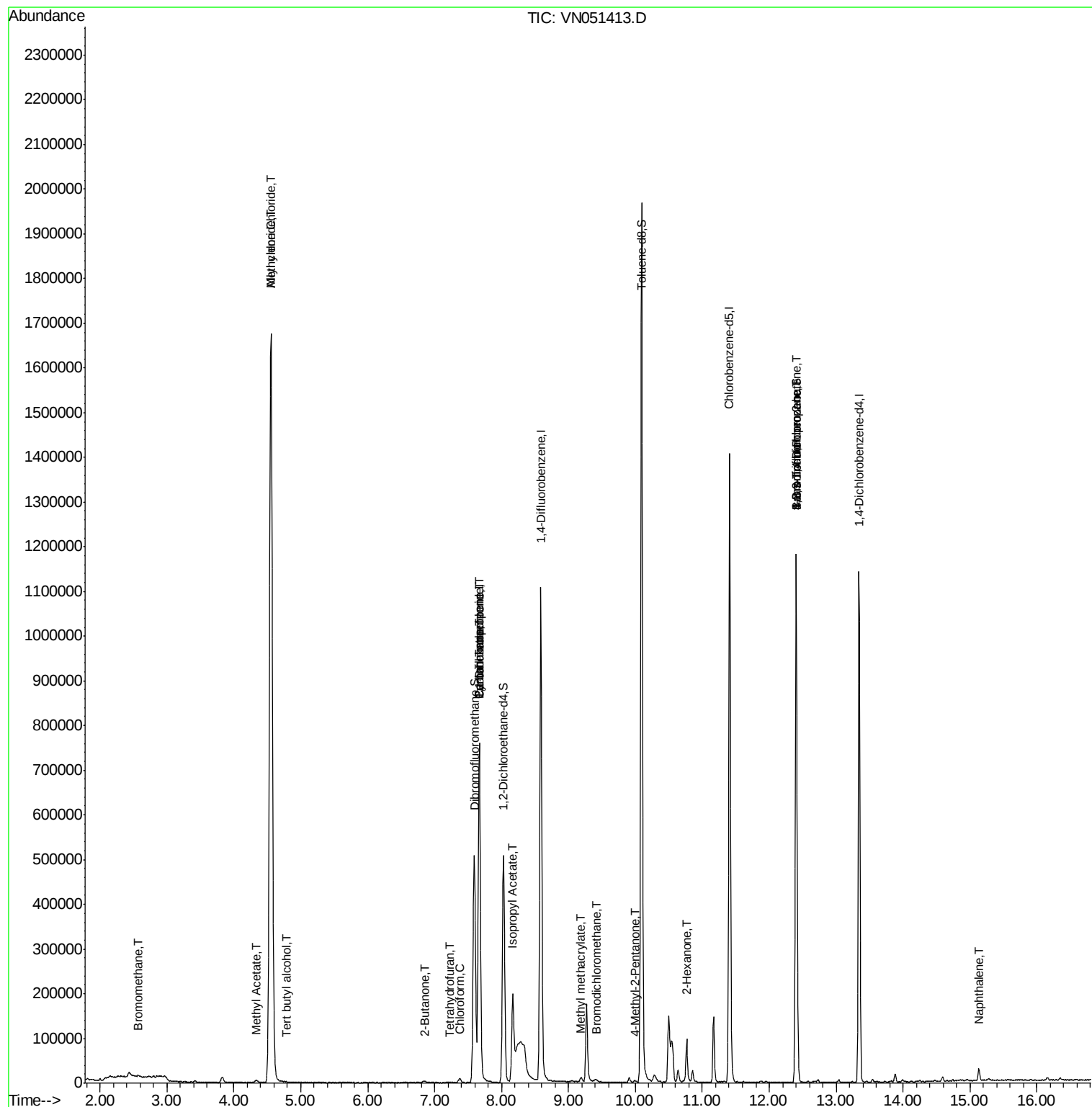
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	666517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1022311	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	853724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	328853	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	445419	53.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.70%	
35) Dibromofluoromethane	7.59	113	386566	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
50) Toluene-d8	10.09	98	1413095	45.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.80%	
62) 4-Bromofluorobenzene	12.40	95	390964	39.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.52%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1338	0.263	ug/l	92
8) Diethyl Ether	3.41	74	1138	Below Cal	#	22
11) Tert butyl alcohol	4.80	59	1385	2.939	ug/l #	78
14) Allyl chloride	4.55	41	48790	3.921	ug/l #	26
16) Acetone	3.82	43	20891	Below Cal		98
18) Methyl Acetate	4.34	43	11411	1.795	ug/l	98
20) Methylene Chloride	4.55	84	1276686	154.524	ug/l	100
25) 2-Butanone	6.85	43	5728	2.004	ug/l #	89
29) Tetrahydrofuran	7.22	42	796	0.440	ug/l #	74
30) Chloroform	7.37	83	4472	0.315	ug/l #	80
31) Cyclohexane	7.66	56	12087	0.919	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45159	3.815	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59838	4.832	ug/l #	16
43) Isopropyl Acetate	8.17	43	263999	21.449	ug/l	93
47) Bromodichloromethane	9.40	83	2377	0.201	ug/l #	93
48) Methyl methacrylate	9.18	41	6647	1.083	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	1827	0.270	ug/l	93
59) 2-Hexanone	10.77	43	14315	3.262	ug/l #	55
71) Bromoform	12.40	173	3739	0.660	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	190341	34.866	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190341	107.211	ug/l #	12
95) Naphthalene	15.13	128	23224	9.638	ug/l	98

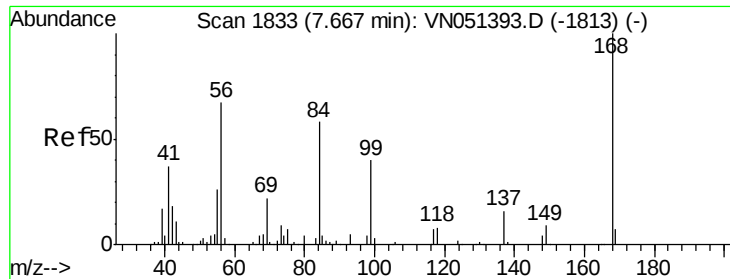
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

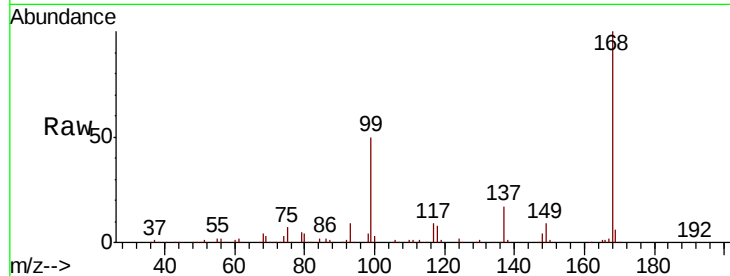
PL-04-092018-B

Tgt Ion:168 Resp: 666517

Ion Ratio Lower Upper

168 100

99 50.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051413.D (-167)

Ion 98.90 (98.60 to 99.60): VN051413.D (-98)

7.67

250000

200000

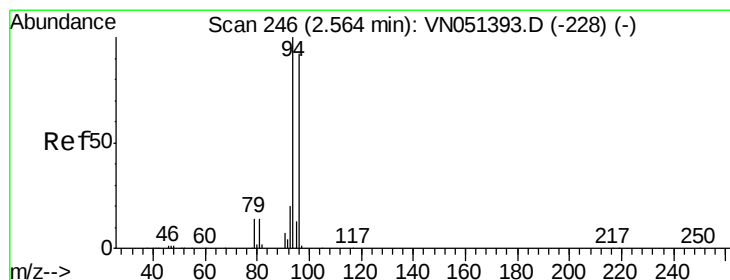
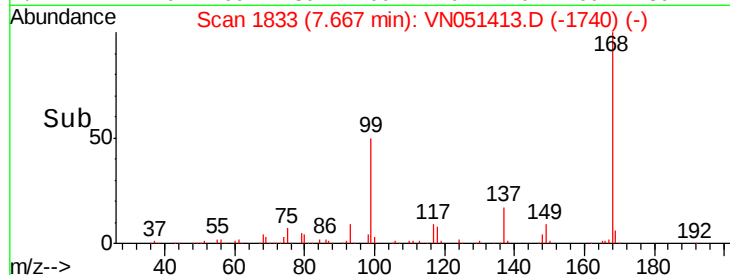
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.263 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051413.D

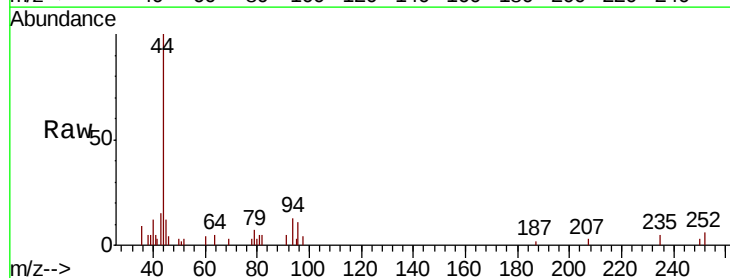
Acq: 23 Sep 2018 15:12

Tgt Ion: 94 Resp: 1338

Ion Ratio Lower Upper

94 100

96 84.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051413.D (-93)

Ion 95.90 (95.60 to 96.60): VN051413.D (-95)

2.57

1000

800

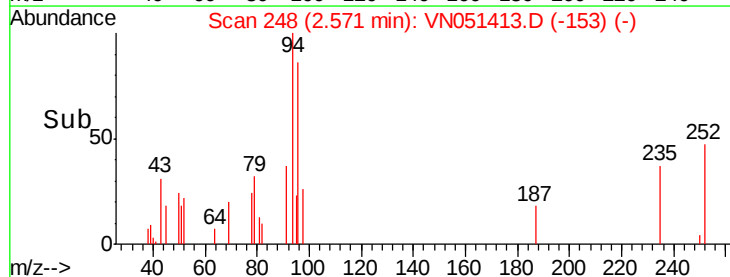
600

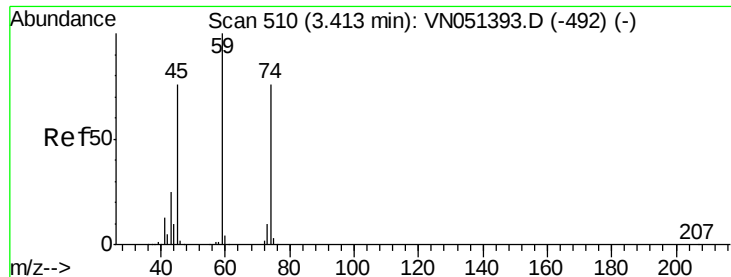
400

200

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

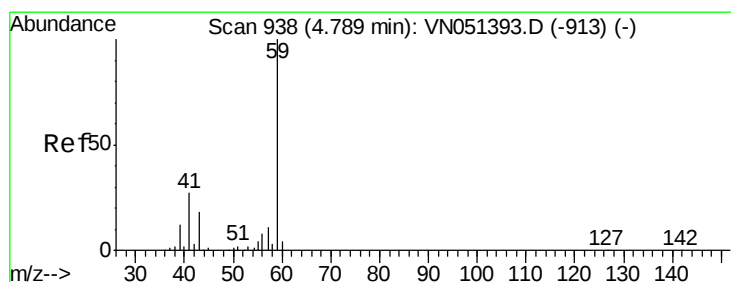
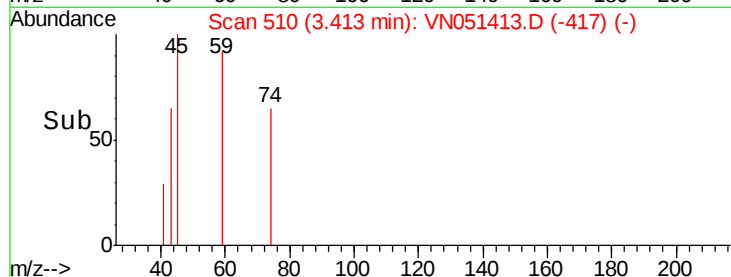
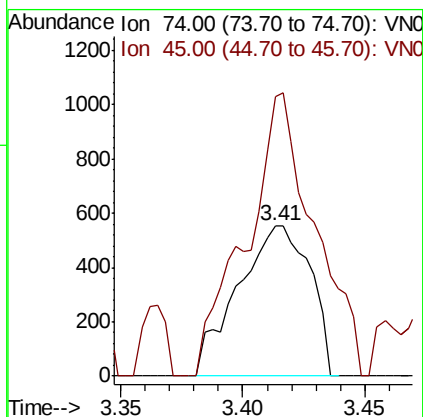
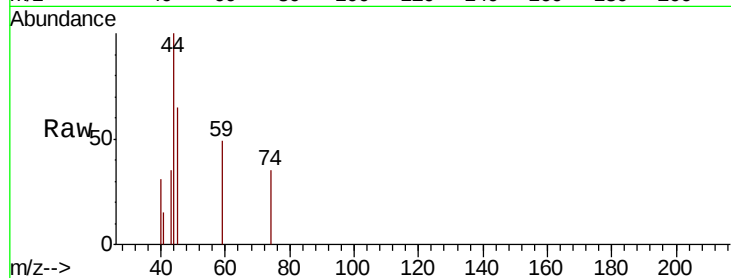
PL-04-092018-B

Tgt Ion: 74 Resp: 1138

Ion Ratio Lower Upper

74 100

45 178.5 50.2 150.7#



#11

Tert butyl alcohol

Concen: 2.939 ug/l

RT: 4.80 min Scan# 941

Delta R.T. 0.01 min

Lab File: VN051413.D

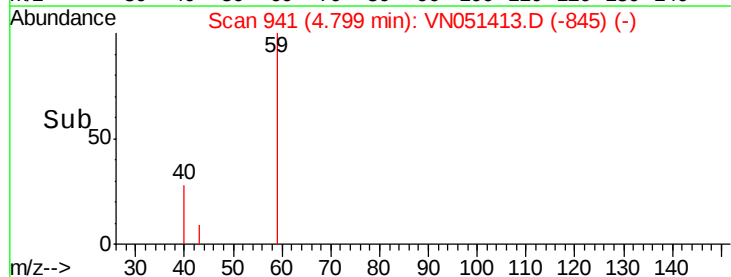
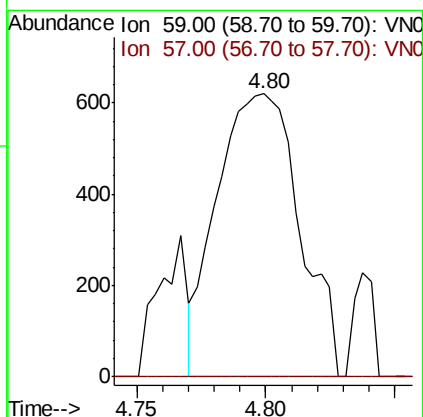
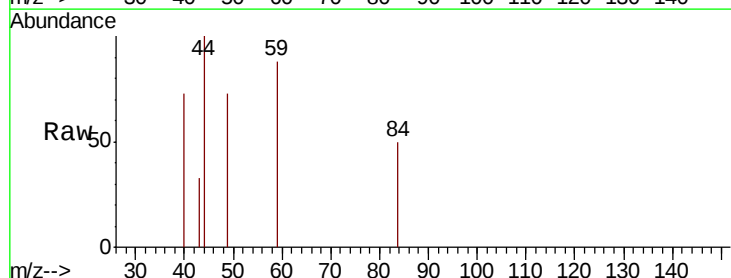
Acq: 23 Sep 2018 15:12

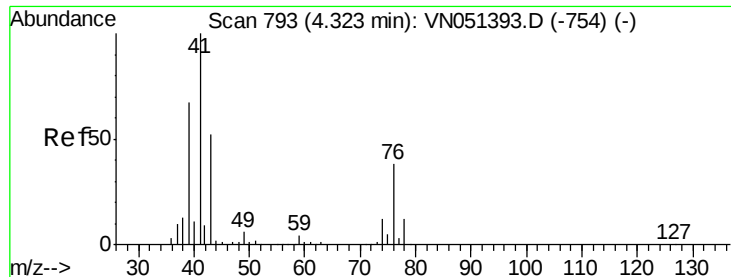
Tgt Ion: 59 Resp: 1385

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#





#14

Allyl chloride

Concen: 3.921 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.23 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-B

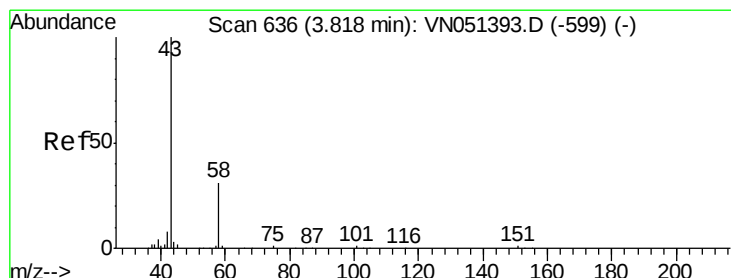
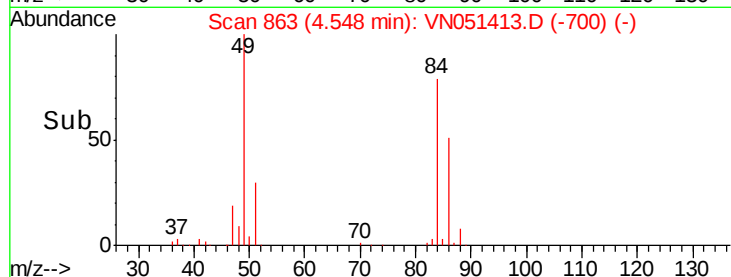
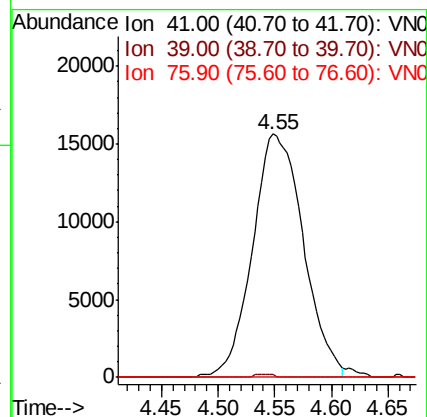
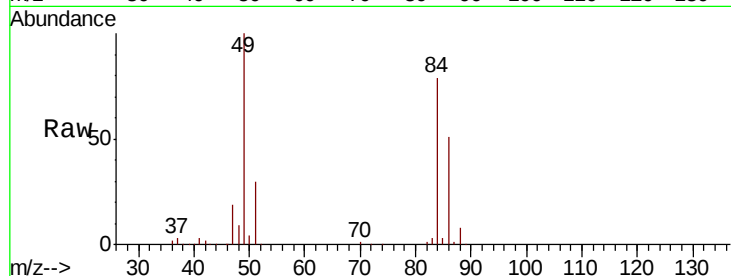
Tgt Ion: 41 Resp: 48790

Ion Ratio Lower Upper

41 100

39 0.4 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: VN051413.D

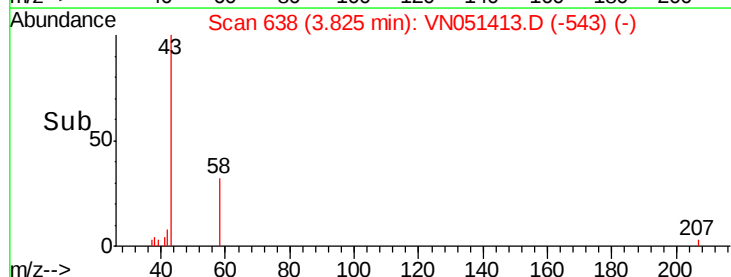
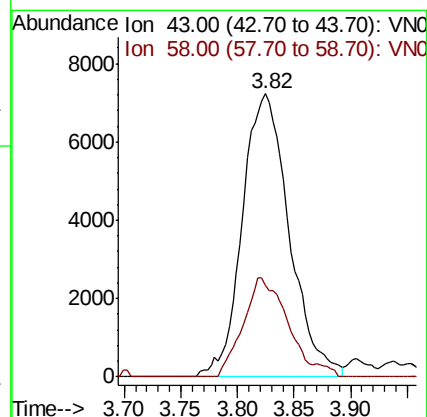
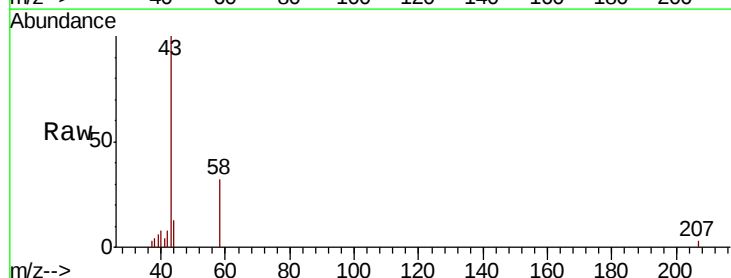
Acq: 23 Sep 2018 15:12

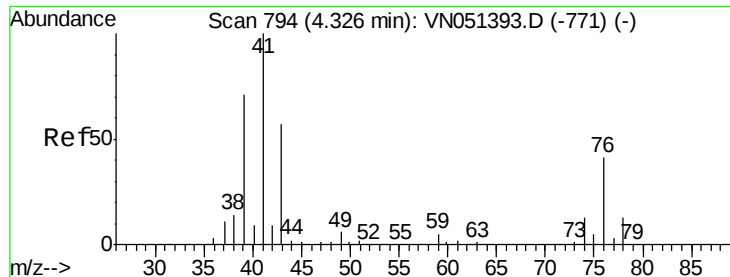
Tgt Ion: 43 Resp: 20891

Ion Ratio Lower Upper

43 100

58 32.2 25.0 37.4

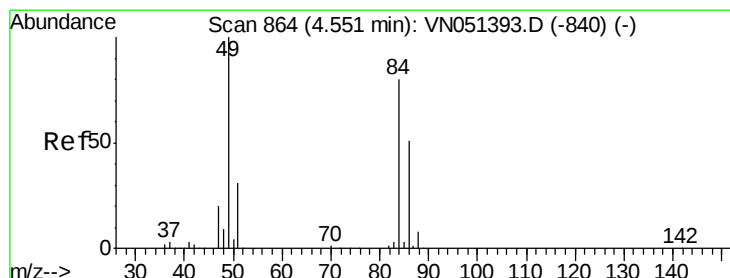
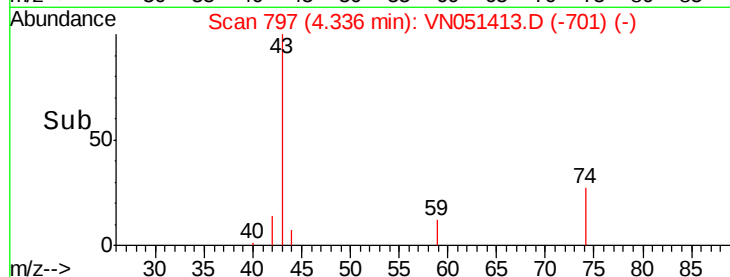
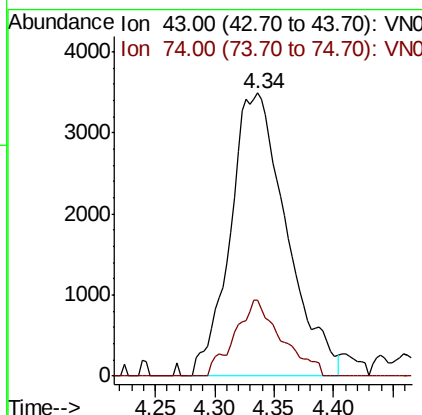
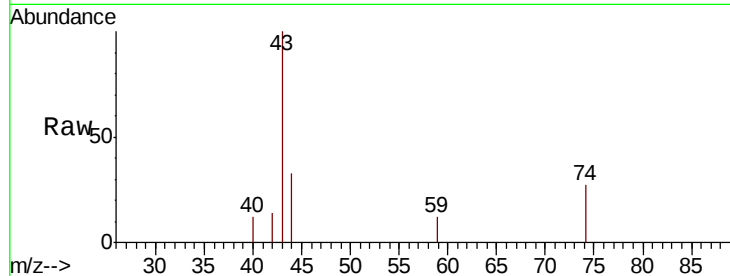




#18
Methyl Acetate
Concen: 1.795 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

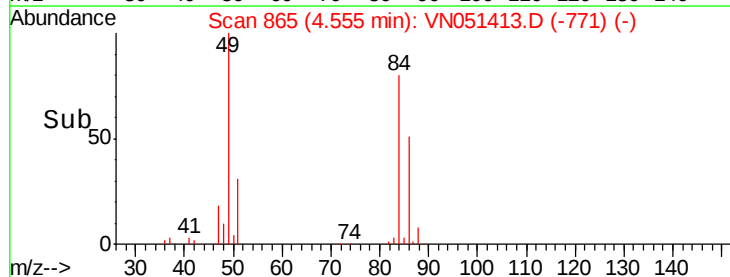
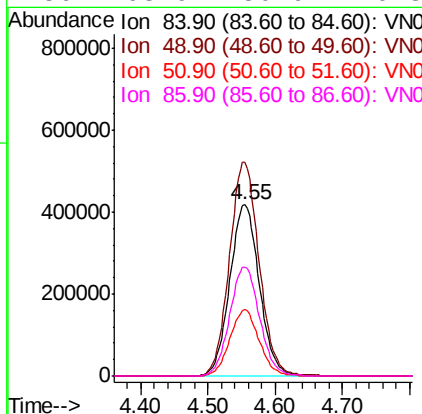
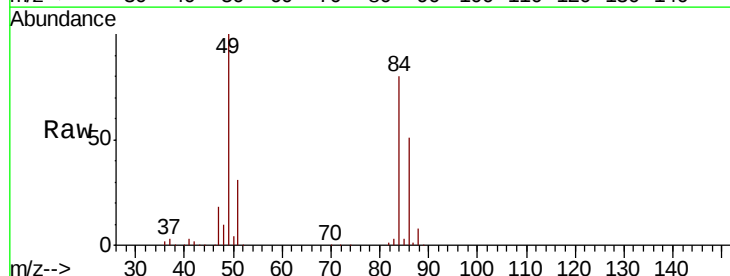
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-B

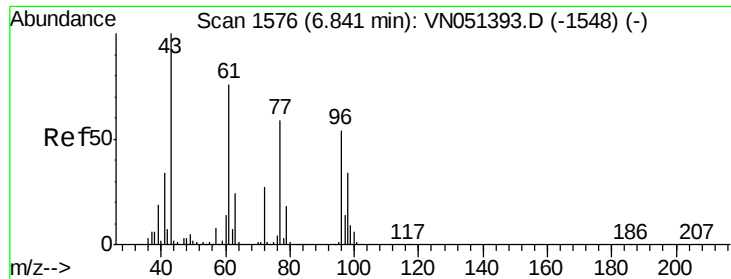
Tgt Ion: 43 Resp: 11411
Ion Ratio Lower Upper
43 100
74 22.5 18.8 28.2



#20
Methylene Chloride
Concen: 154.524 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion: 84 Resp: 1276686
Ion Ratio Lower Upper
84 100
49 124.7 99.9 149.9
51 38.7 31.4 47.2
86 63.9 50.9 76.3

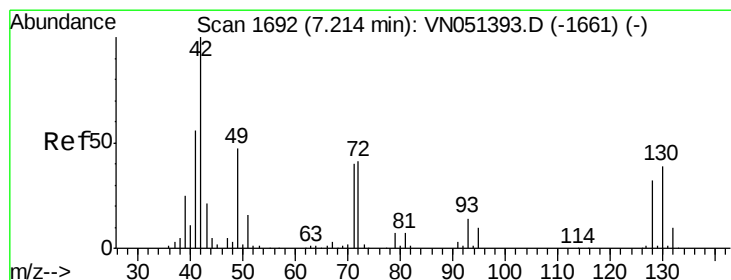
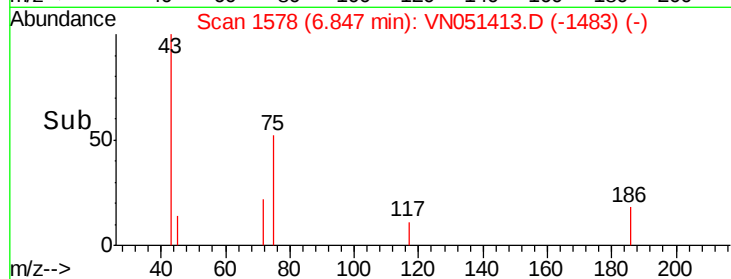
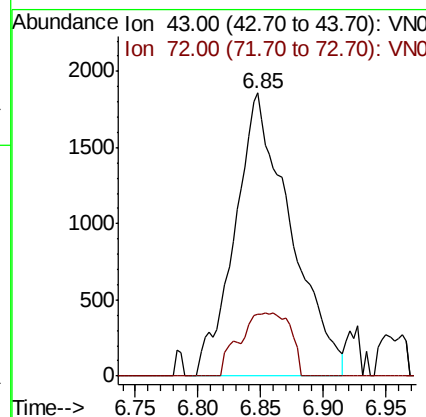
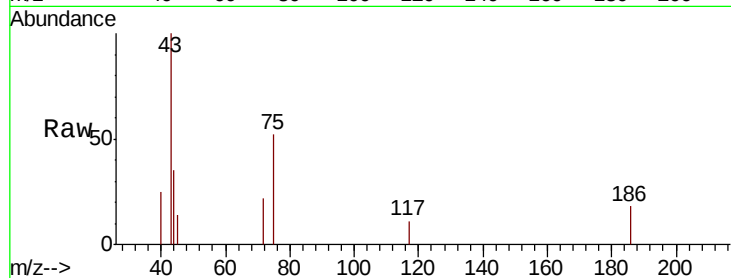




#25
 2-Butanone
 Concen: 2.004 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

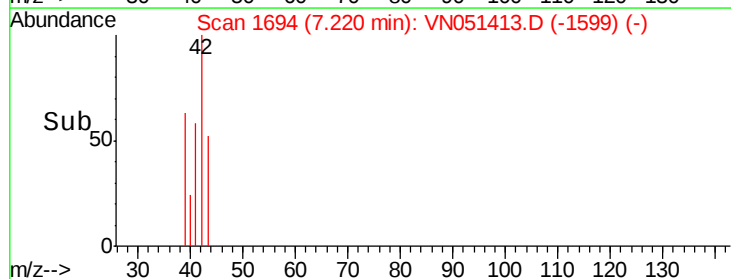
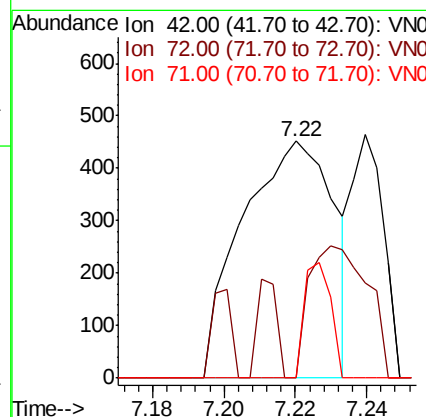
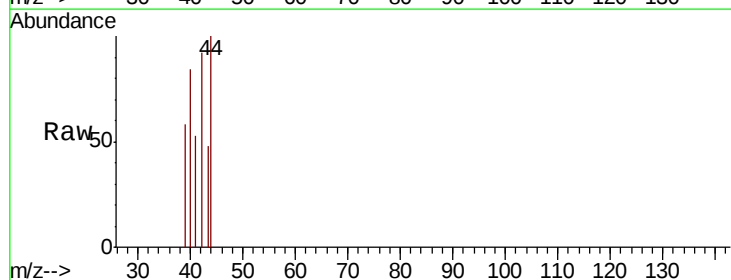
Instrument :
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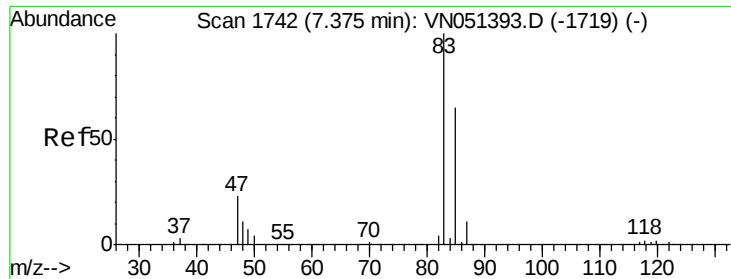
Tgt Ion: 43 Resp: 5728
 Ion Ratio Lower Upper
 43 100
 72 21.7 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.440 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

Tgt Ion: 42 Resp: 796
 Ion Ratio Lower Upper
 42 100
 72 35.8 34.3 51.5
 71 14.1 32.2 48.4#

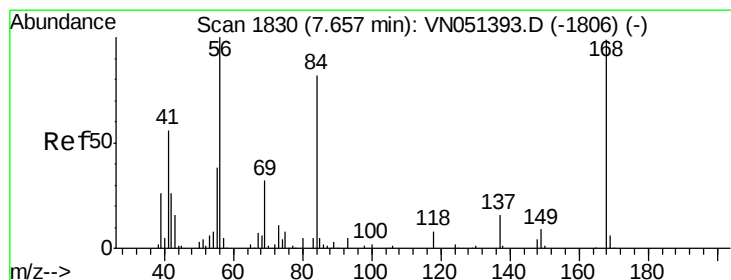
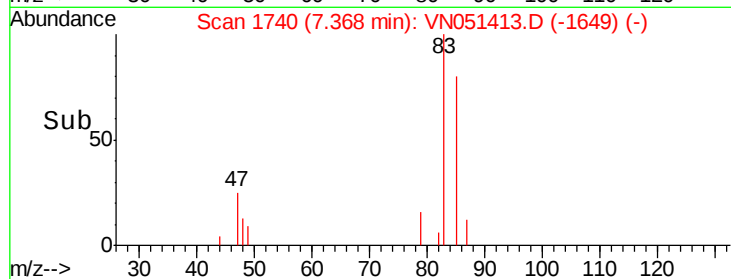
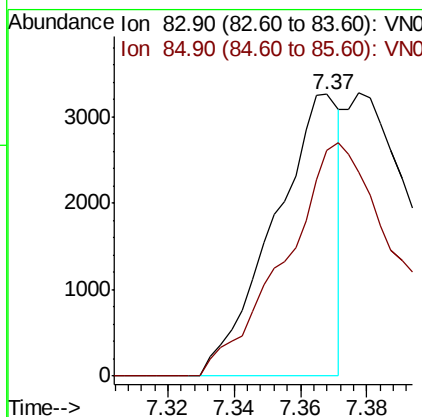
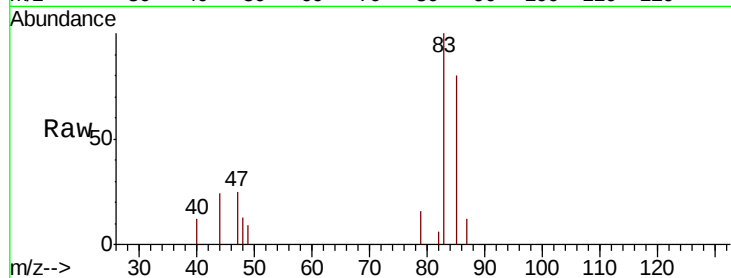




#30
Chloroform
Concen: 0.315 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

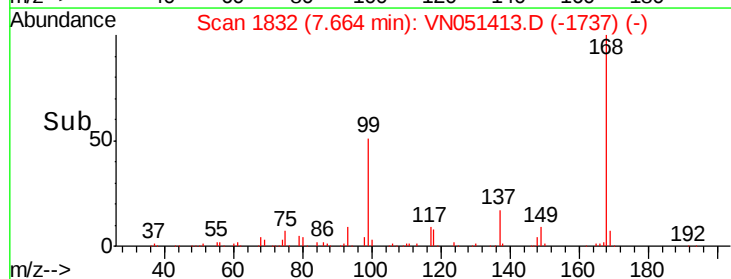
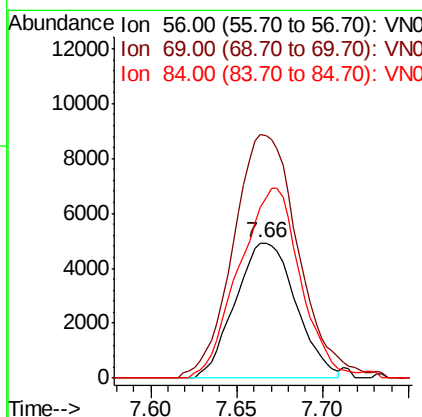
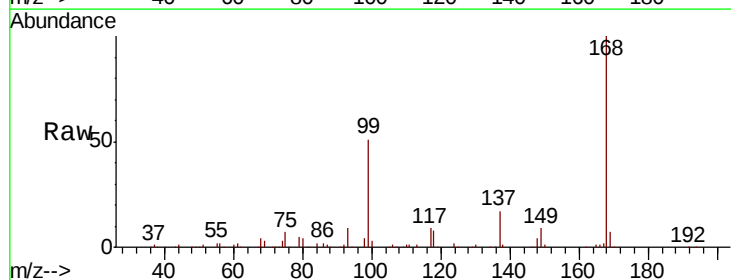
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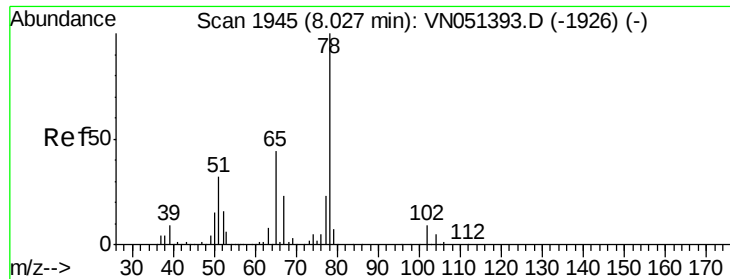
Tgt Ion: 83 Resp: 4472
Ion Ratio Lower Upper
83 100
85 80.1 51.8 77.6#



#31
Cyclohexane
Concen: 0.919 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion: 56 Resp: 12087
Ion Ratio Lower Upper
56 100
69 174.8 25.8 38.6#
84 126.4 66.0 99.0#

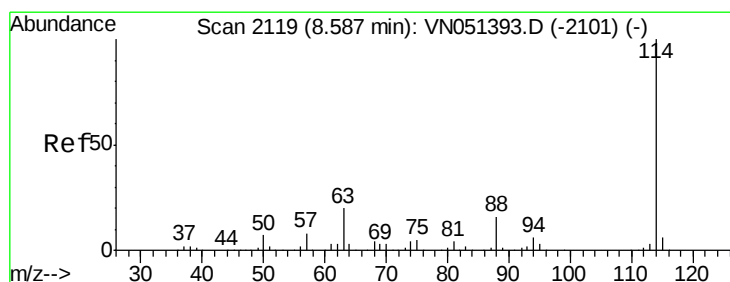
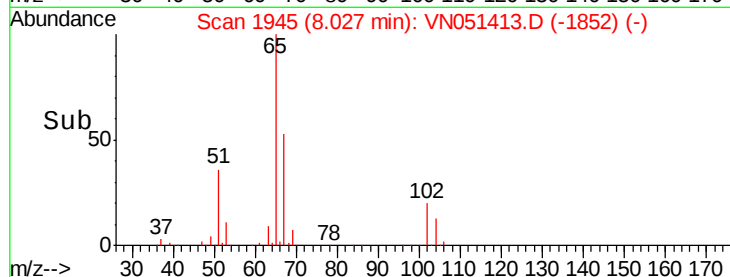
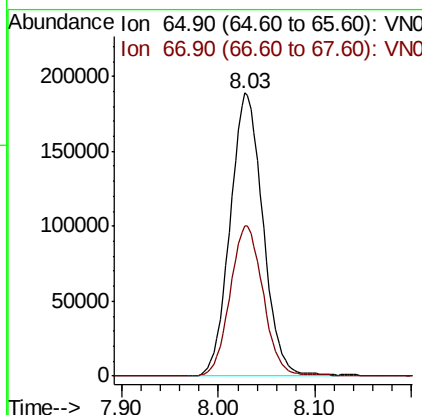
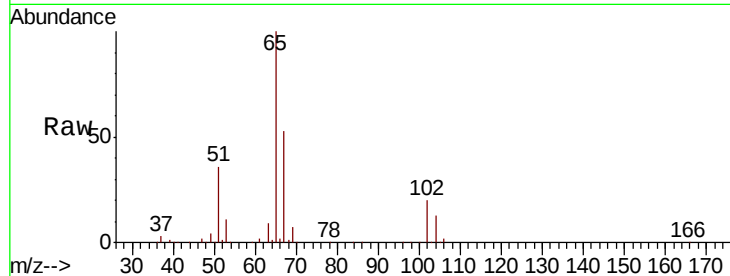




#33
 1,2-Dichloroethane-d4
 Concen: 53.348 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

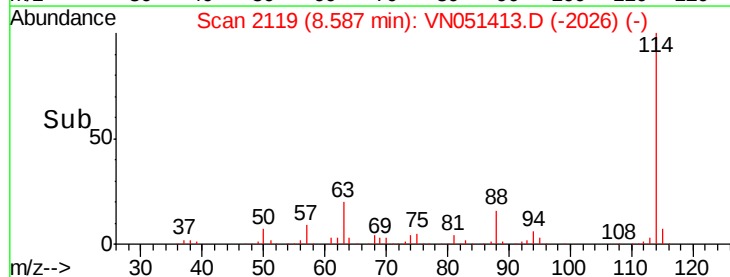
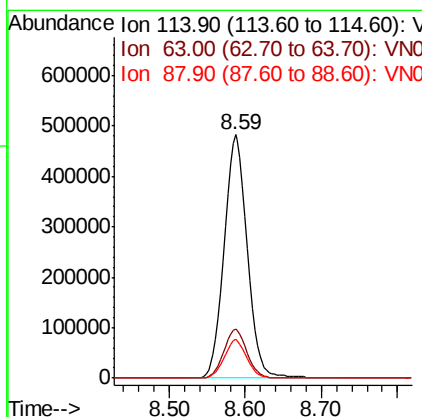
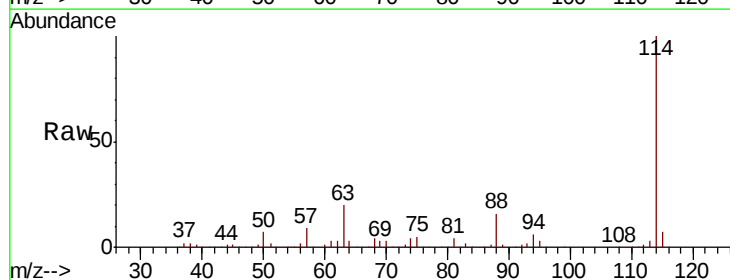
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 ClientSampleId :
 PL-04-092018-B

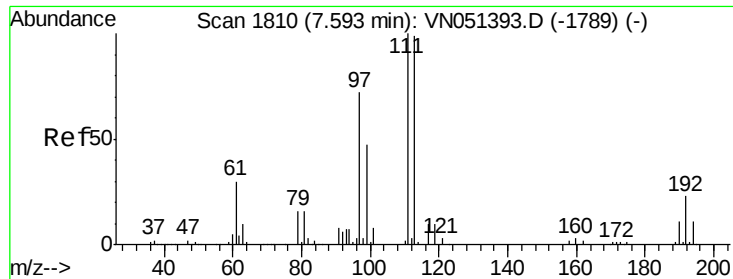
Tgt Ion: 65 Resp: 445419
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

Tgt Ion: 114 Resp: 1022311
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.2
 88 15.8 0.0 31.4

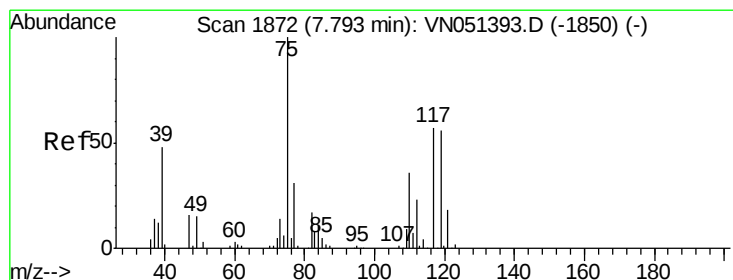
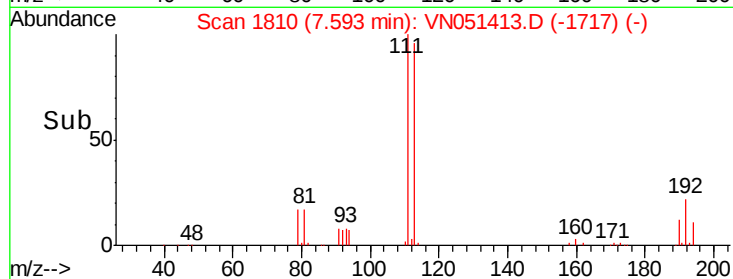
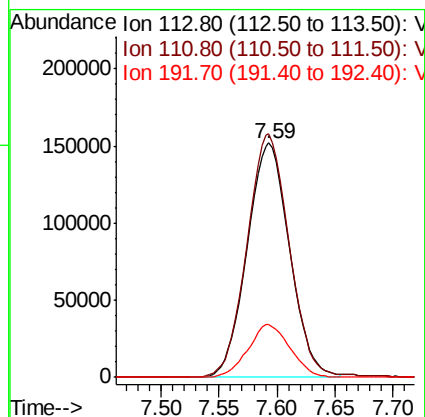
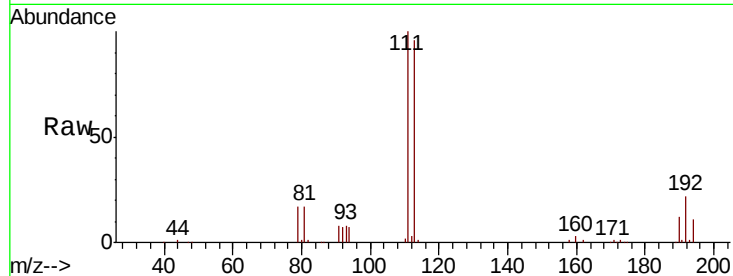




#35
 Dibromofluoromethane
 Concen: 47.287 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

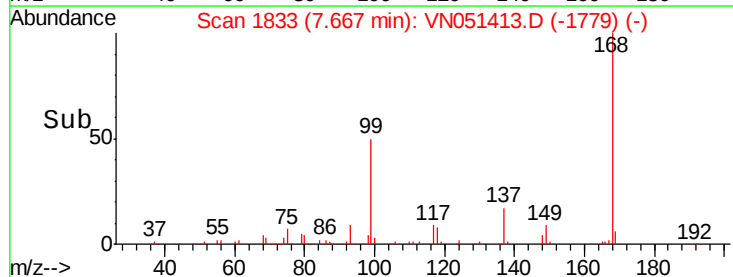
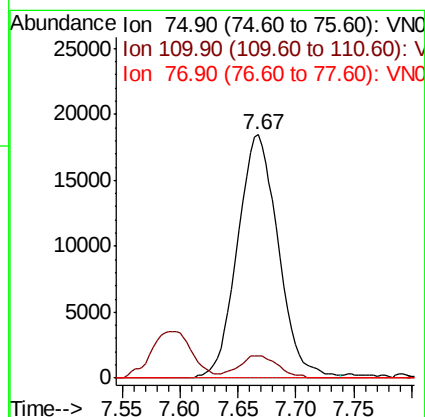
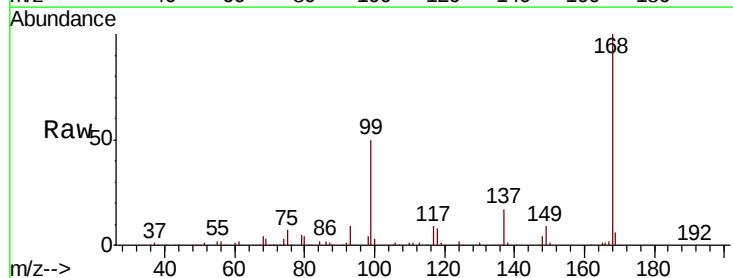
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-04-092018-B

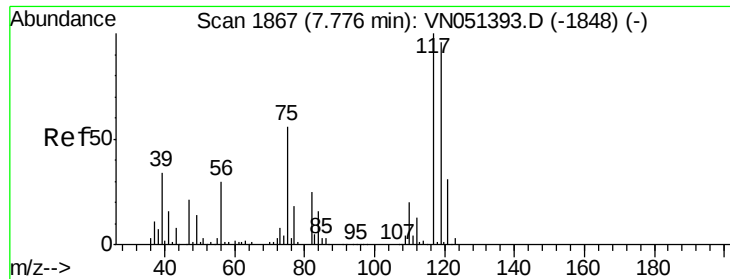
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.6	123.8
192	22.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.815 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051413.D
 Acq: 23 Sep 2018 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	25.6	38.4#

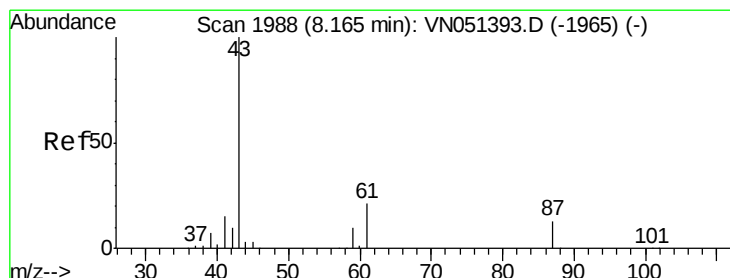
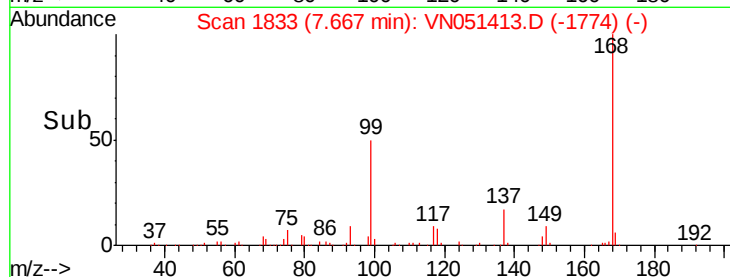
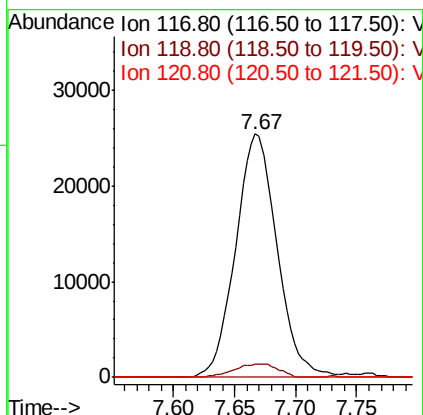
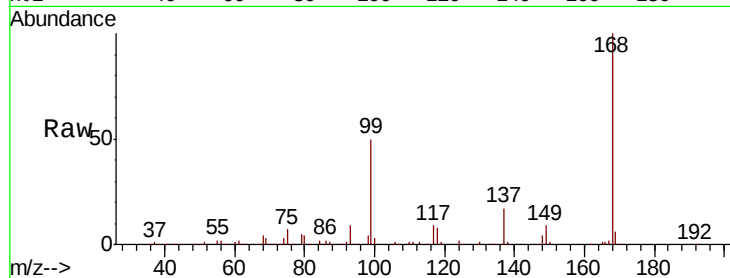




#38
Carbon Tetrachloride
Concen: 4.832 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

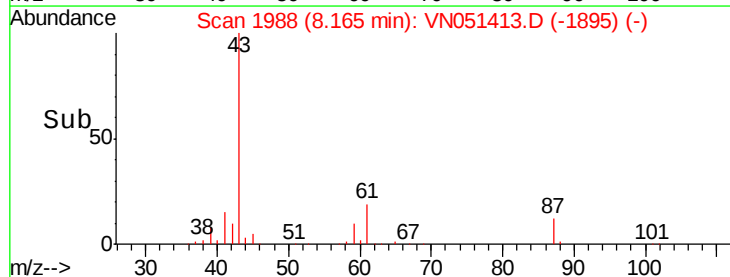
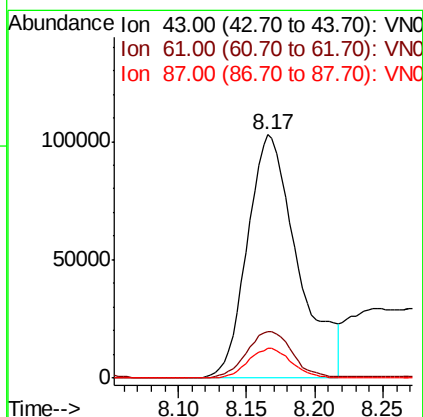
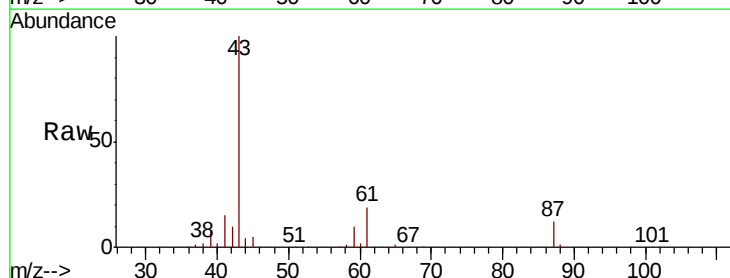
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-B

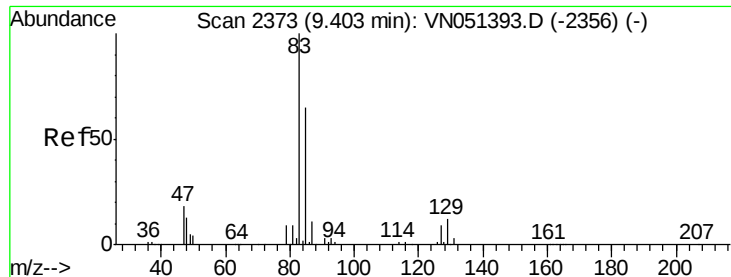
Tgt Ion:117 Resp: 59838
Ion Ratio Lower Upper
117 100
119 5.5 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 21.449 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion: 43 Resp: 263999
Ion Ratio Lower Upper
43 100
61 17.6 16.8 25.2
87 10.8 10.7 16.1





#47

Bromodichloromethane

Concen: 0.201 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-B

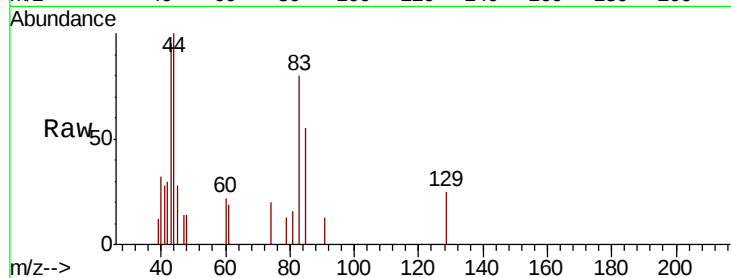
Tgt Ion: 83 Resp: 2377

Ion Ratio Lower Upper

83 100

85 68.0 51.8 77.6

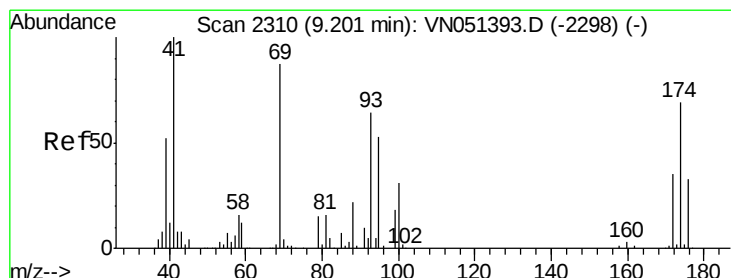
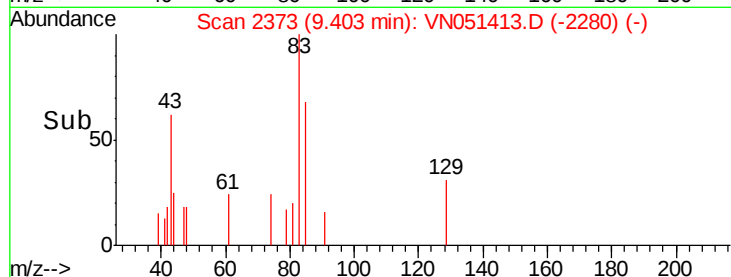
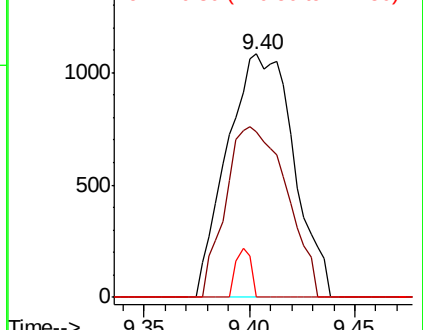
127 0.0 7.4 11.2#



Abundance Ion 82.90 (82.60 to 83.60): VN051413.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051413.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051413.D (-2356) (-)



#48

Methyl methacrylate

Concen: 1.083 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

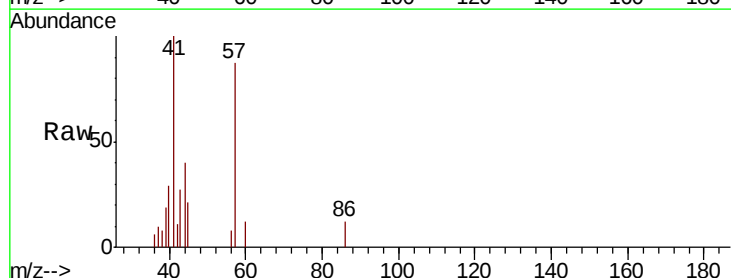
Tgt Ion: 41 Resp: 6647

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

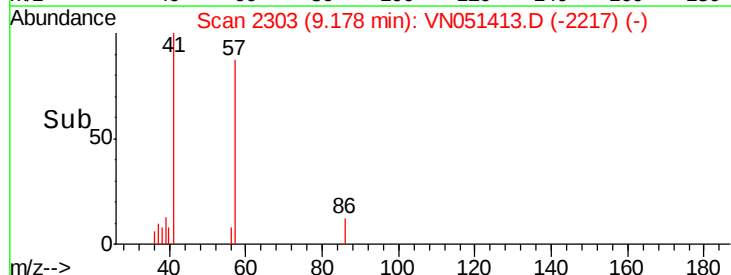
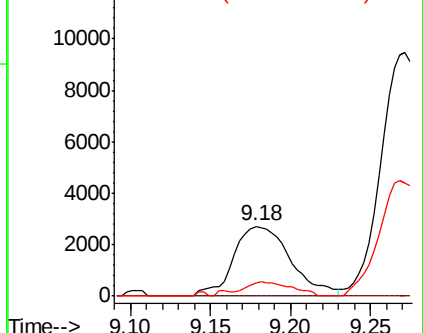
39 16.1 43.8 65.8#

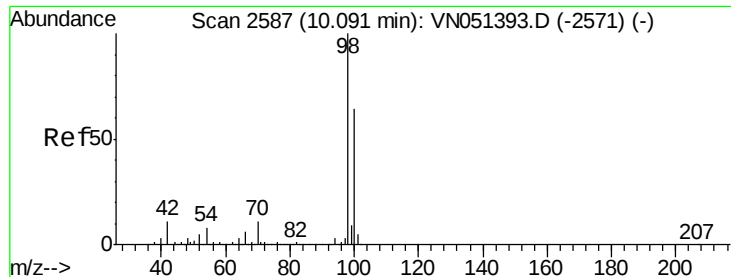


Abundance Ion 41.00 (40.70 to 41.70): VN051413.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051413.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051413.D (-2298) (-)

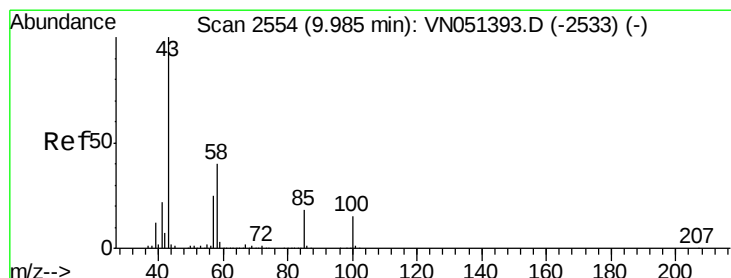
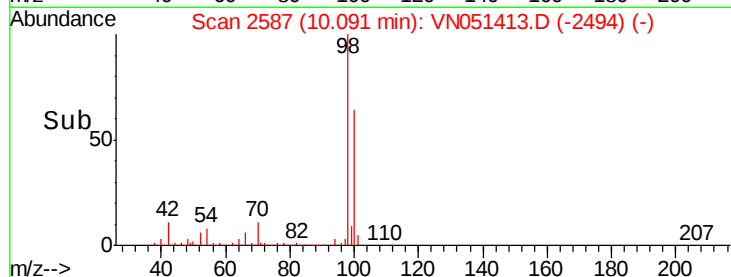
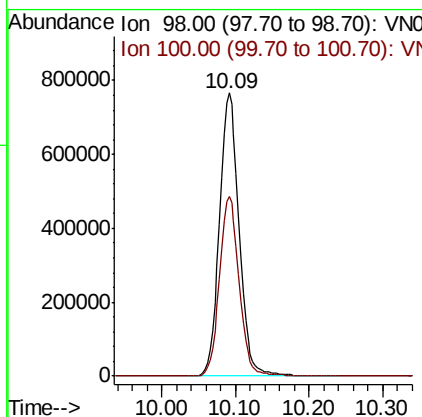
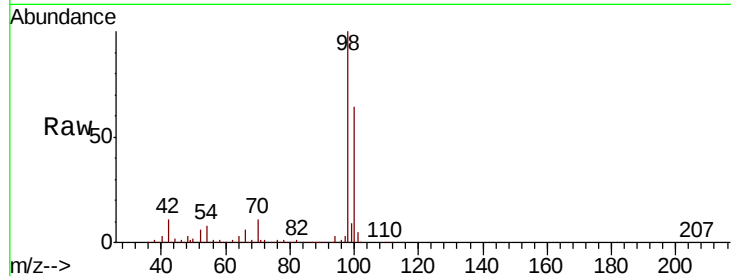




#50
Toluene-d8
Concen: 45.904 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

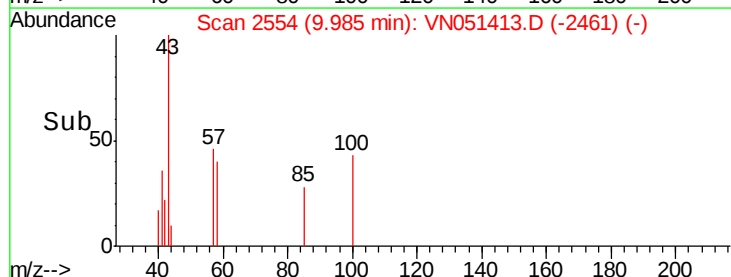
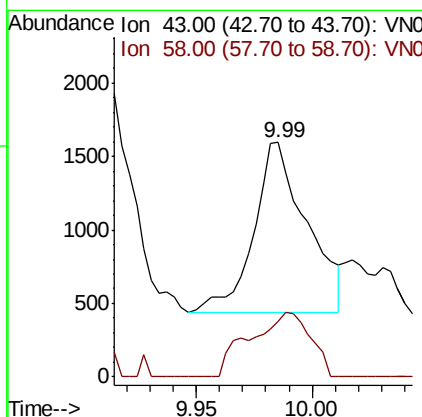
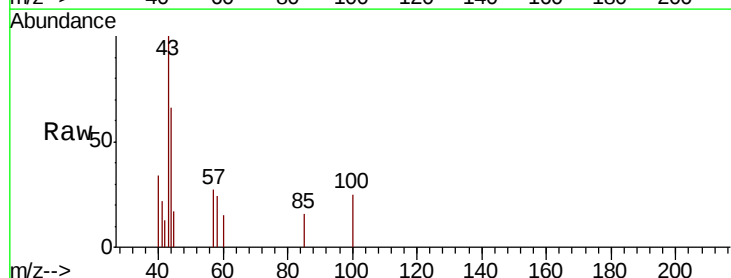
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-B

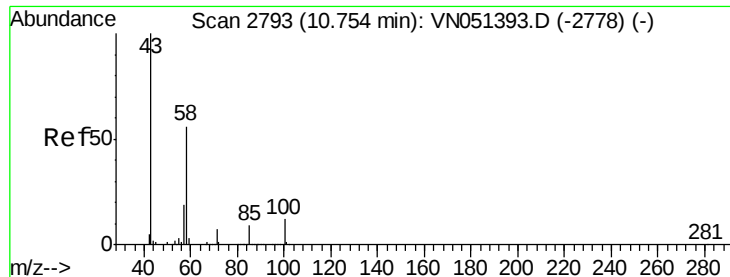
Tgt Ion: 98 Resp: 1413095
Ion Ratio Lower Upper
98 100
100 63.6 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.270 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion: 43 Resp: 1827
Ion Ratio Lower Upper
43 100
58 43.5 31.5 47.3

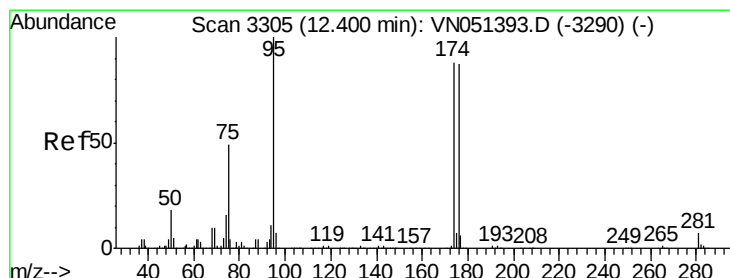
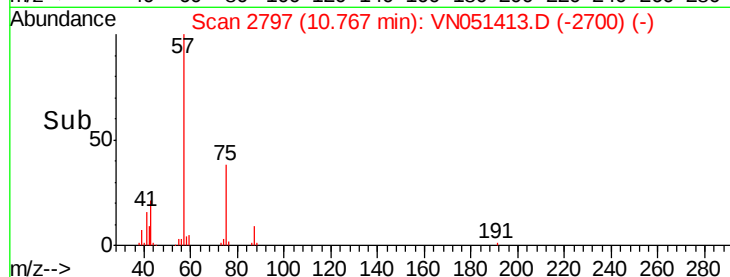
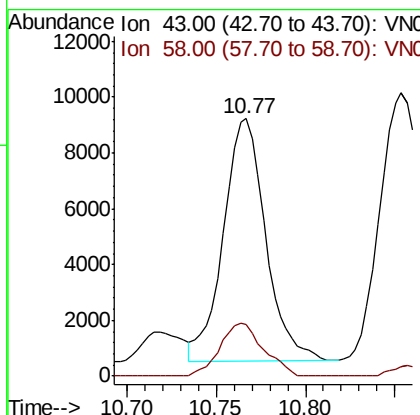
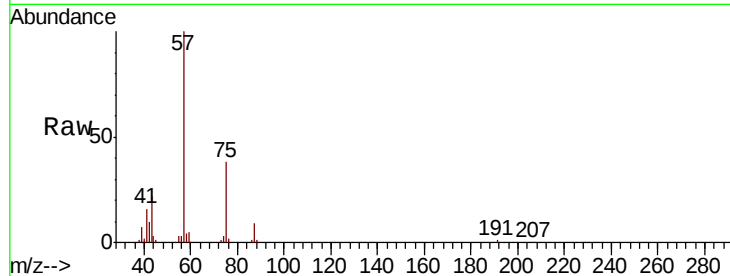




#59
2-Hexanone
Concen: 3.262 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

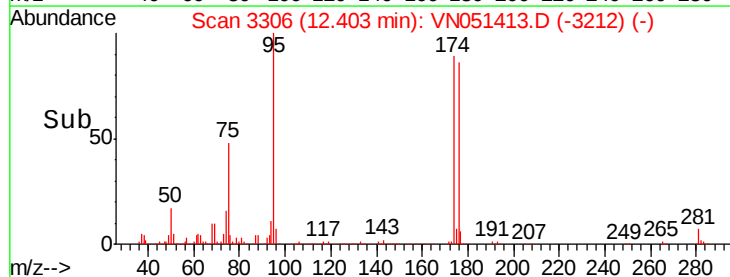
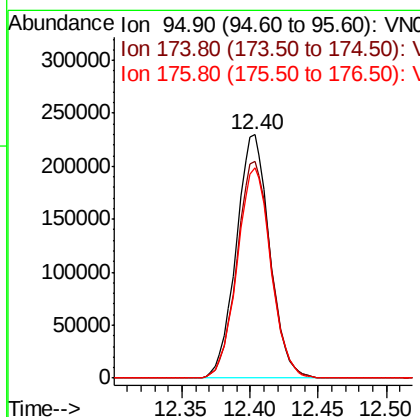
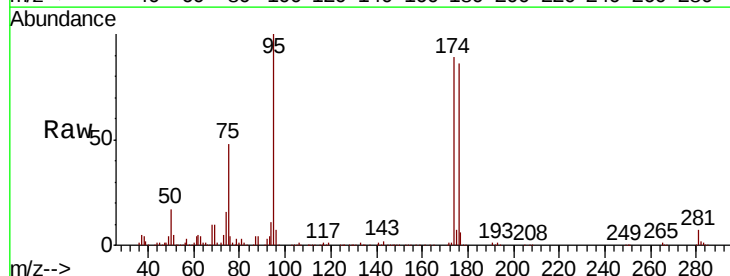
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-B

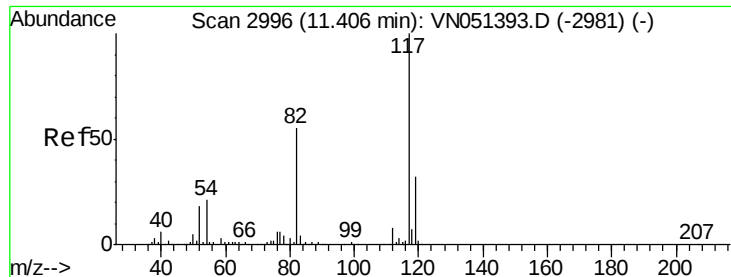
Tgt Ion: 43 Resp: 14315
Ion Ratio Lower Upper
43 100
58 22.5 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 39.259 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion: 95 Resp: 390964
Ion Ratio Lower Upper
95 100
174 90.6 0.0 181.6
176 87.3 0.0 176.4

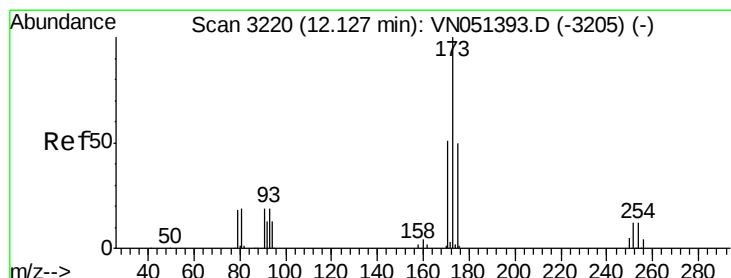
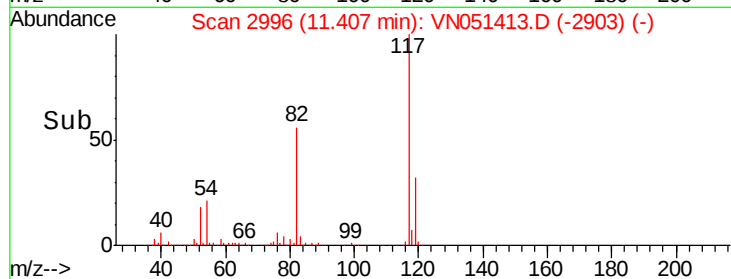
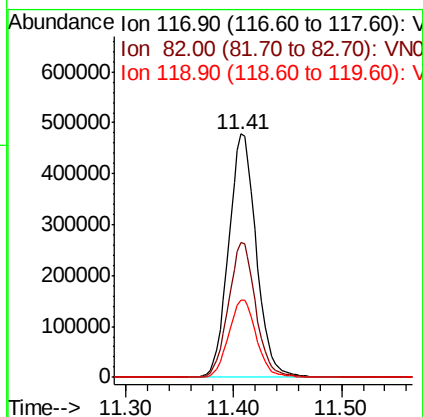
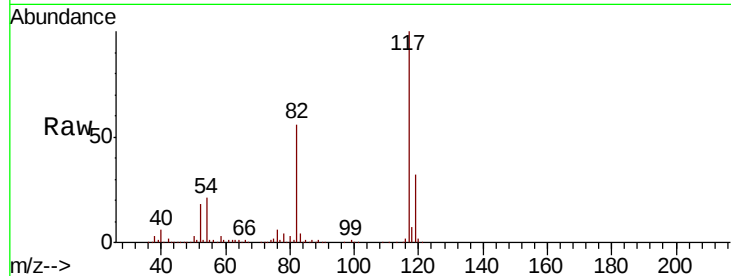




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

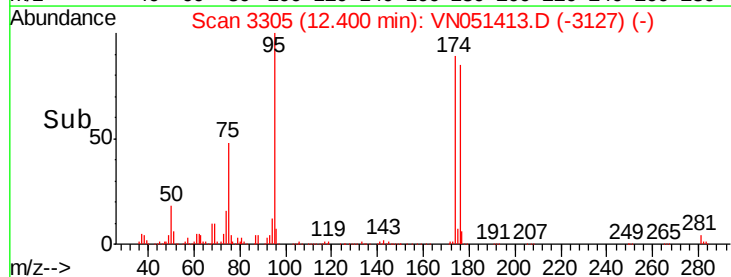
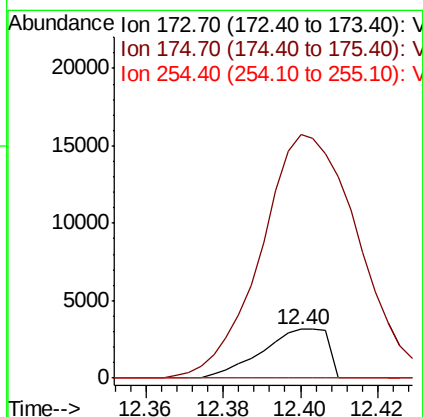
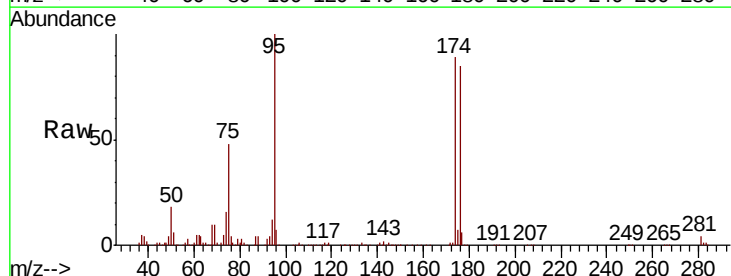
Instrument :
MSVOA_N
ClientSampleId :
PL-04-092018-B

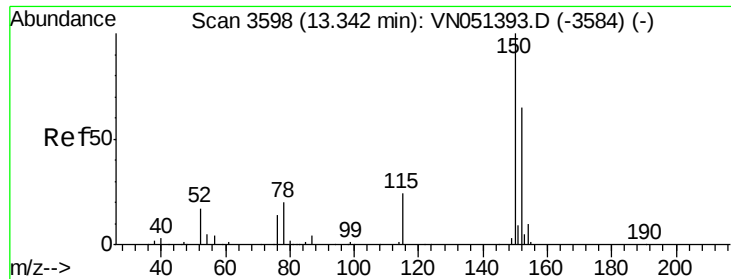
Tgt Ion:117 Resp: 853724
Ion Ratio Lower Upper
117 100
82 55.5 44.2 66.2
119 31.8 25.9 38.9



#71
Bromoform
Concen: 0.660 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051413.D
Acq: 23 Sep 2018 15:12

Tgt Ion:173 Resp: 3739
Ion Ratio Lower Upper
173 100
175 622.4 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-B

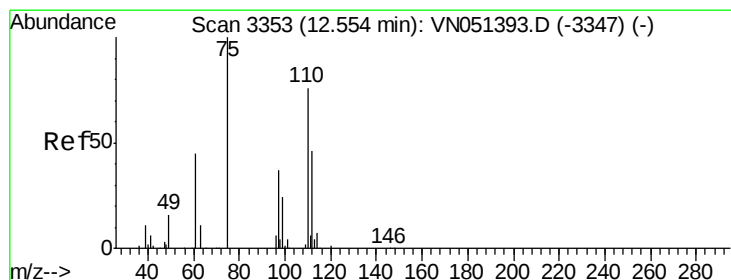
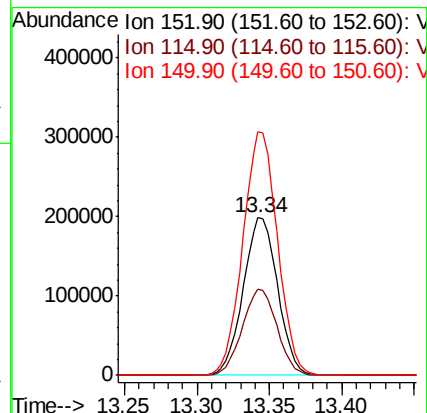
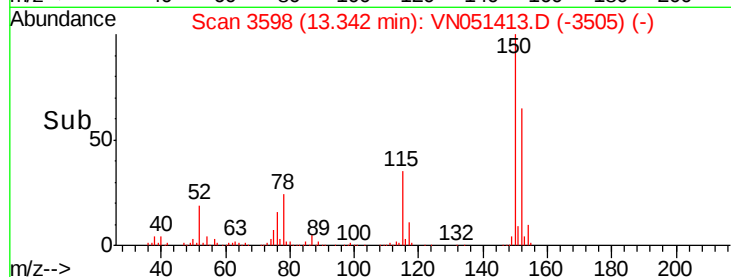
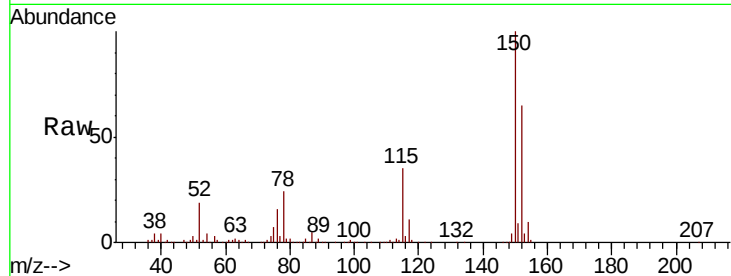
Tgt Ion:152 Resp: 328853

Ion Ratio Lower Upper

152 100

115 55.1 28.3 84.9

150 155.1 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 34.866 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051413.D

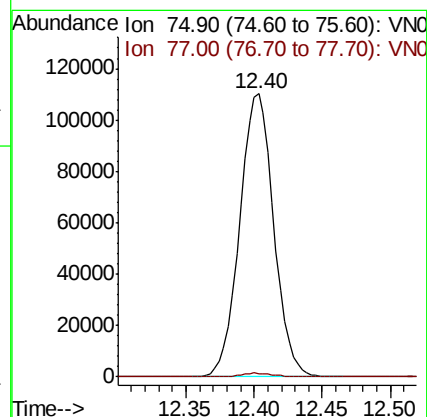
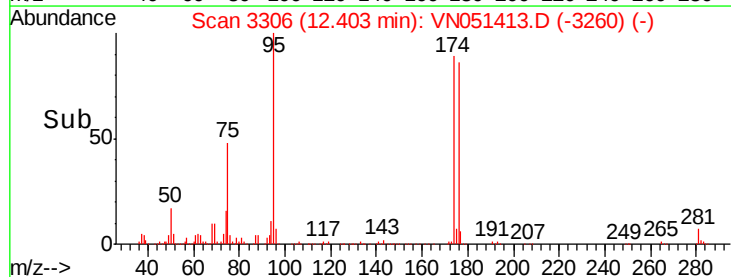
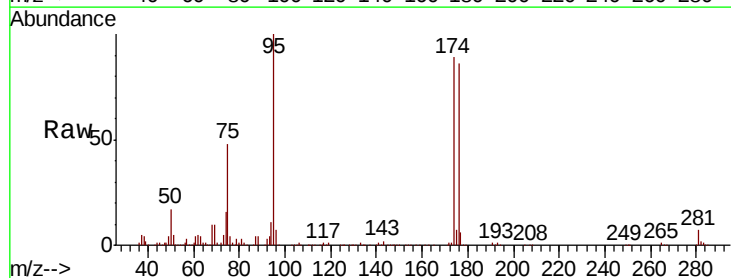
Acq: 23 Sep 2018 15:12

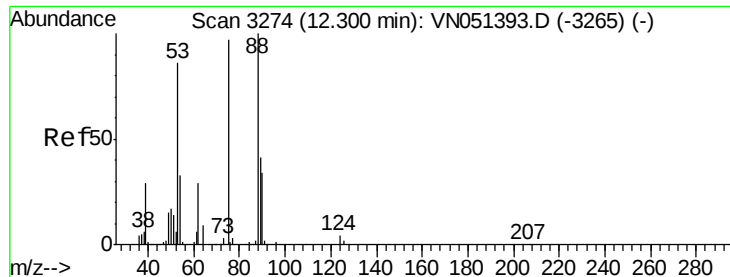
Tgt Ion: 75 Resp: 190341

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 107.211 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

Instrument :

MSVOA_N

ClientSampleId :

PL-04-092018-B

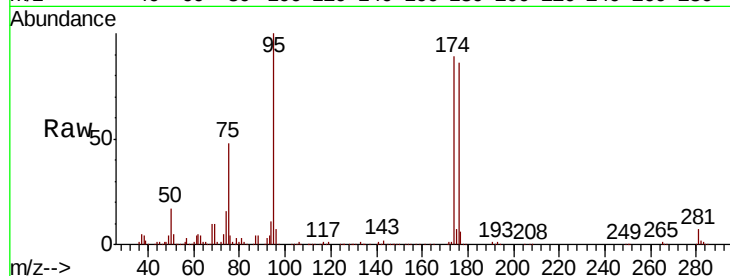
Tgt Ion: 75 Resp: 190341

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

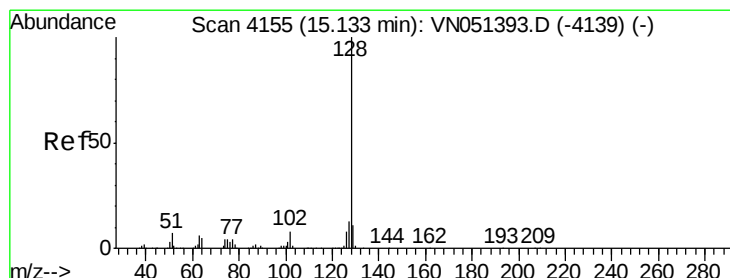
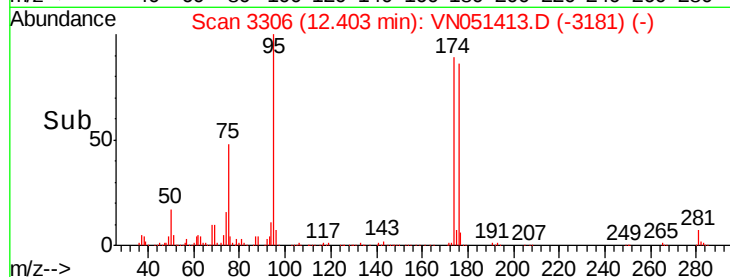
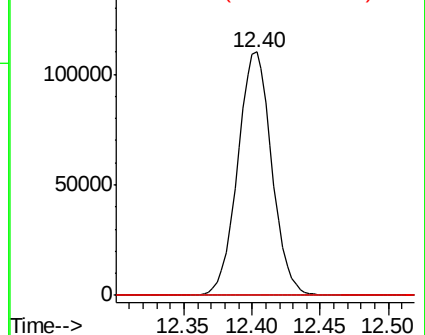
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 9.638 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051413.D

Acq: 23 Sep 2018 15:12

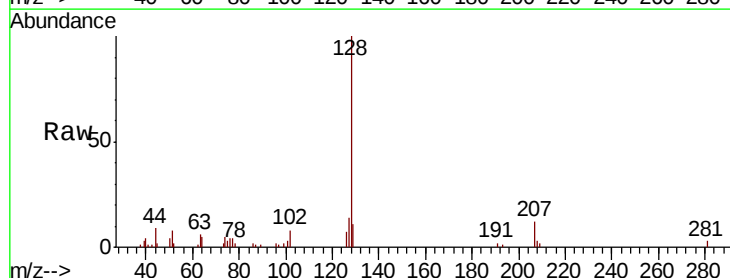
Tgt Ion: 128 Resp: 23224

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 11.5 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

