

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051376.D
 Acq On : 21 Sep 2018 18:13
 Operator : MD\SY
 Sample : PB113086ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

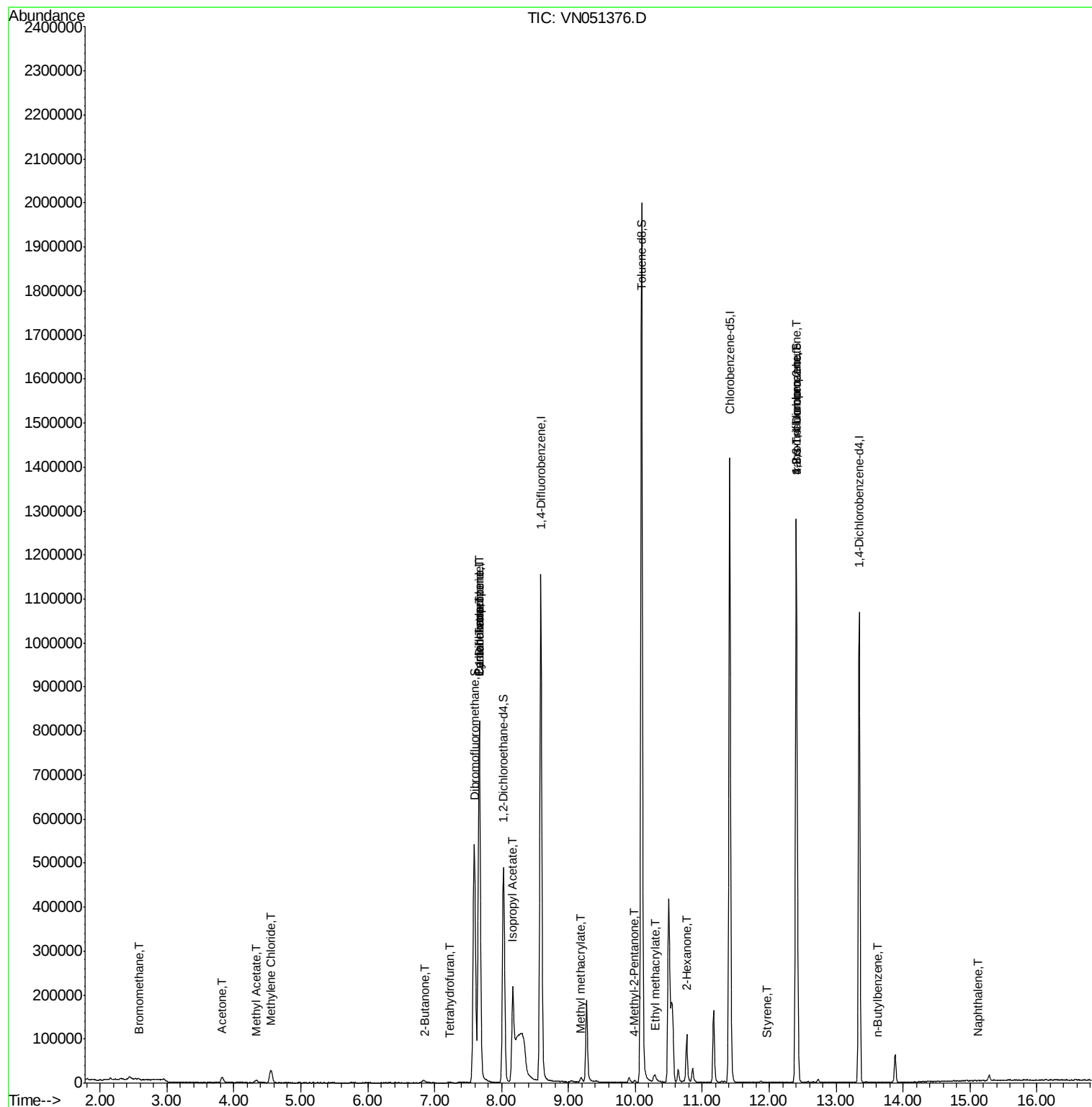
Quant Time: Sep 21 23:03:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

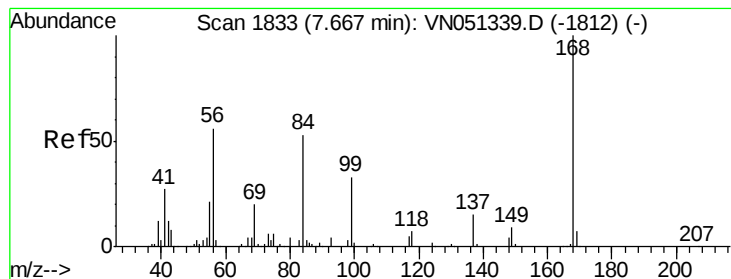
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	756667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1124654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	941262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321528	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	421518	51.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.80%	
35) Dibromofluoromethane	7.59	113	418808	46.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.16%	
50) Toluene-d8	10.09	98	1513271	43.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.62%	
62) 4-Bromofluorobenzene	12.40	95	401221	35.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.60%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.05	50	857	Below Cal		100
5) Bromomethane	2.58	94	1295	0.208 ug/l		95
16) Acetone	3.82	43	21949	12.413 ug/l		97
18) Methyl Acetate	4.34	43	10211	1.057 ug/l		98
20) Methylene Chloride	4.56	84	22653	2.687 ug/l		98
25) 2-Butanone	6.86	43	4325	1.846 ug/l		91
29) Tetrahydrofuran	7.22	42	996	0.671 ug/l	#	42
31) Cyclohexane	7.67	56	11363	0.491 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	44200	3.842 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	62249	5.002 ug/l	#	16
43) Isopropyl Acetate	8.17	43	280282	28.101 ug/l	#	90
48) Methyl methacrylate	9.18	41	5808	1.142 ug/l	#	17
51) 4-Methyl-2-Pentanone	9.99	43	2191	0.408 ug/l		95
56) Ethyl methacrylate	10.30	69	65	1.583 ug/l	#	31
59) 2-Hexanone	10.77	43	14707	4.066 ug/l	#	57
70) Styrene	11.97	104	137	0.899 ug/l	#	56
75) 1,1,2,2-Tetrachloroethane	12.42	83	63	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	183344	42.737 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183344	127.845 ug/l	#	14
89) n-Butylbenzene	13.62	91	151	1.437 ug/l	#	33
95) Naphthalene	15.13	128	304	5.355 ug/l	#	69

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

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QLast Update : Fri Sep 21 04:23:57 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051376.D

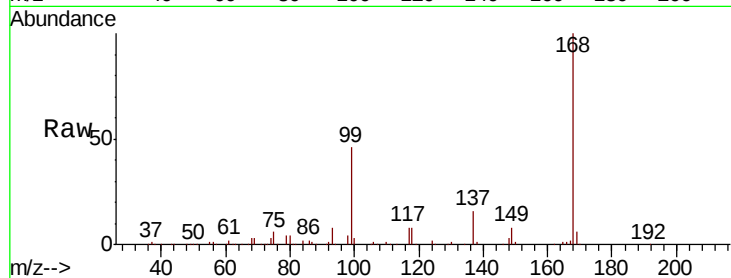
Acq: 21 Sep 2018 18:13

Tot Ion:168 Resp: 756667

Ion Ratio Lower Upper

168 100

99 45.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

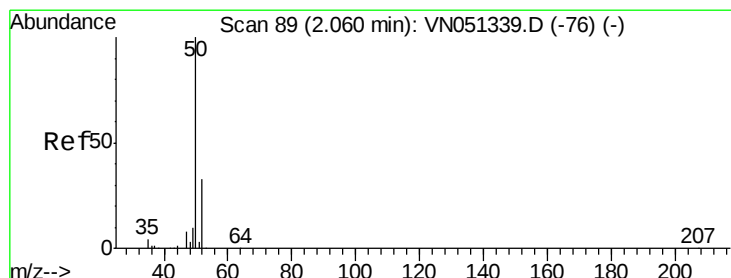
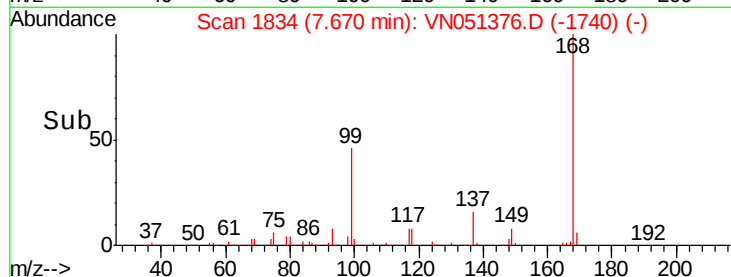
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.05 min Scan# 87

Delta R.T. -0.01 min

Lab File: VN051376.D

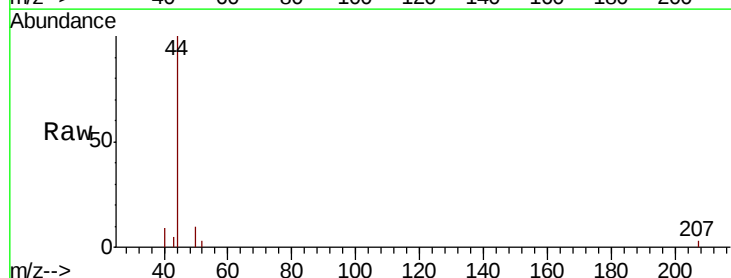
Acq: 21 Sep 2018 18:13

Tgt Ion: 50 Resp: 857

Ion Ratio Lower Upper

50 100

52 33.4 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.05

600

500

400

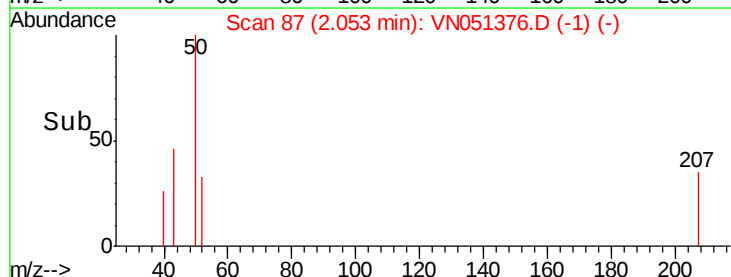
300

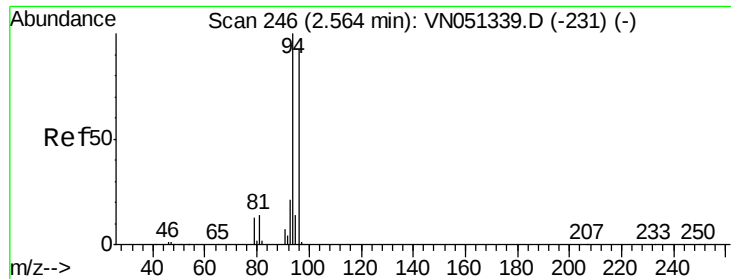
200

100

0

Time-->





#5

Bromomethane

Concen: 0.208 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051376.D

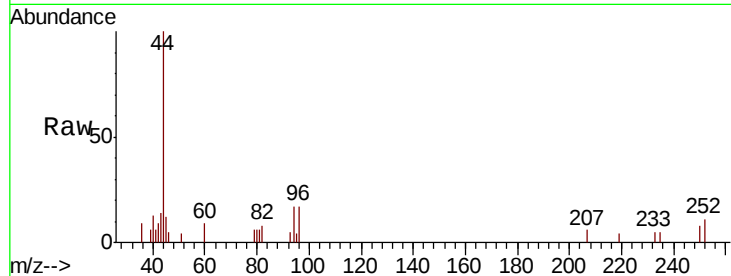
Acq: 21 Sep 2018 18:13

Tot Ion: 94 Resp: 1295

Ion Ratio Lower Upper

94 100

96 97.1 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

600

400

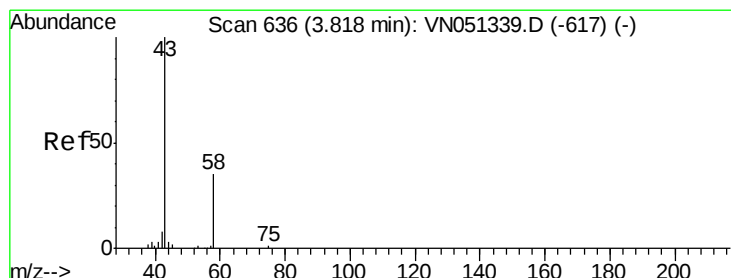
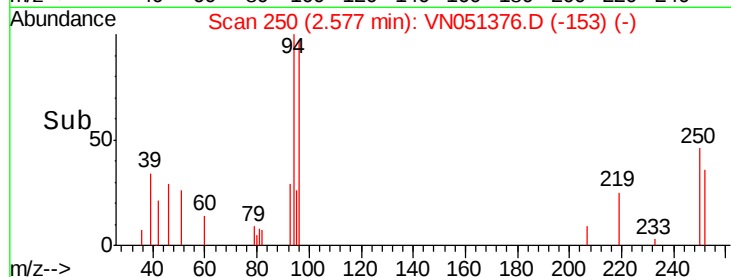
200

0

2.55

2.60

Time-->



#16

Acetone

Concen: 12.413 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051376.D

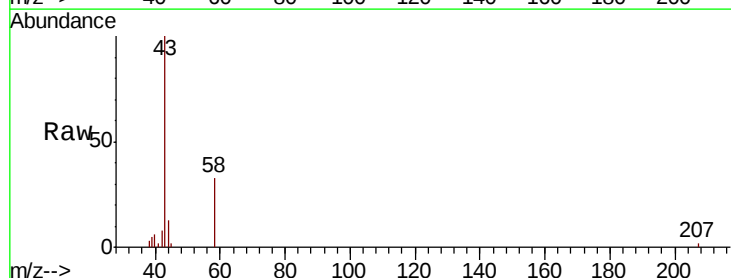
Acq: 21 Sep 2018 18:13

Tgt Ion: 43 Resp: 21949

Ion Ratio Lower Upper

43 100

58 33.4 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

8000

6000

4000

2000

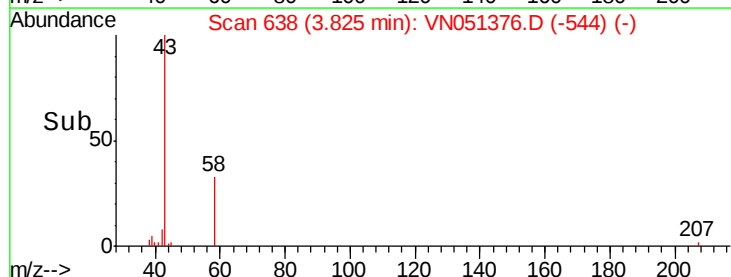
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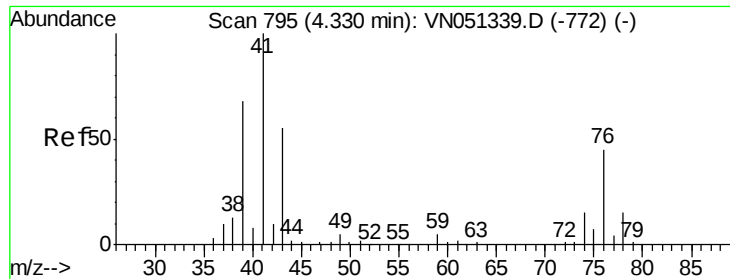
3.70

3.80

3.90

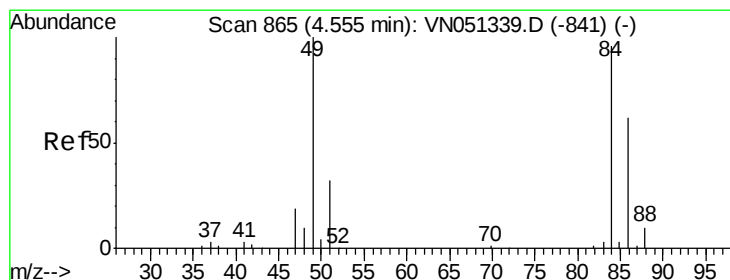
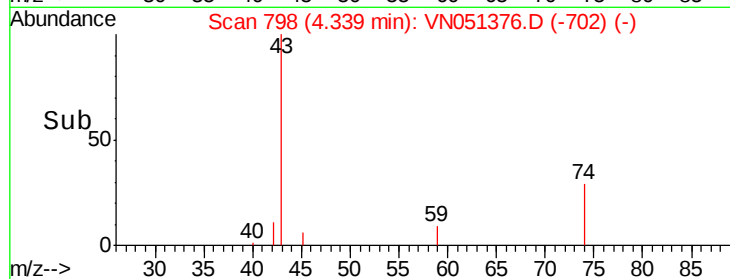
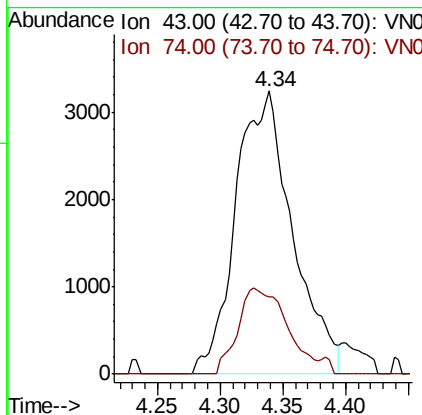
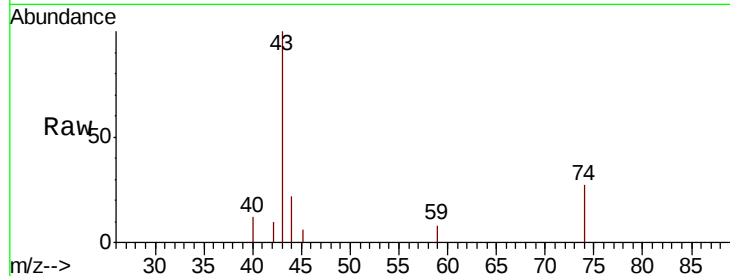
Time-->





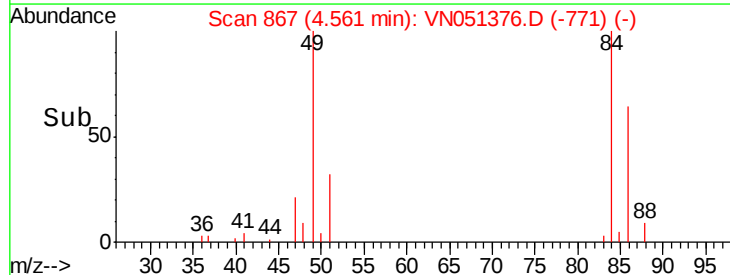
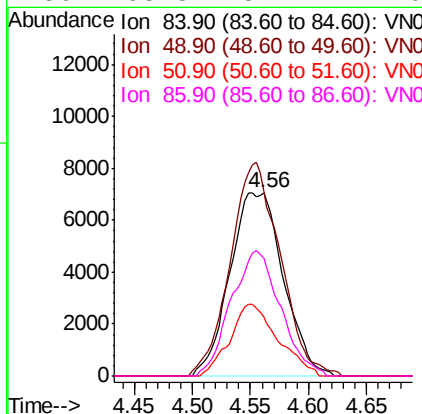
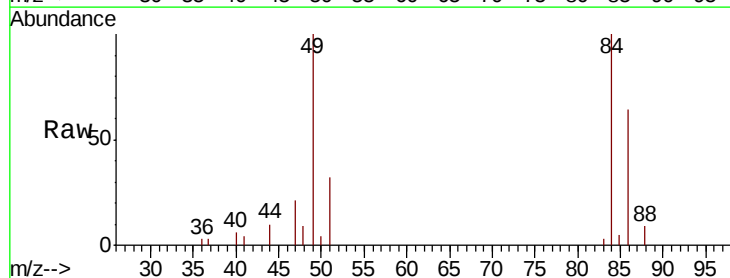
#18
Methvl Acetate
Concen: 1.057 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

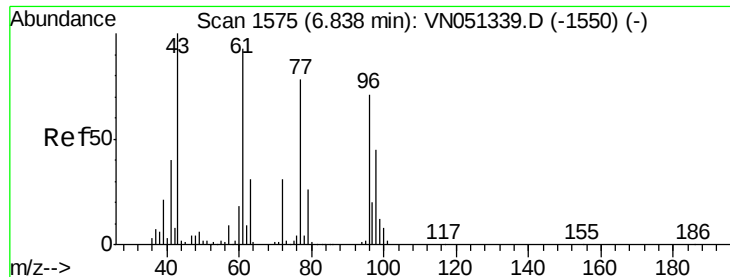
Tot Ion: 43 Resp: 10211
Ion Ratio Lower Upper
43 100
74 26.2 21.7 32.5



#20
Methylene Chloride
Concen: 2.687 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

Tgt Ion: 84 Resp: 22653
Ion Ratio Lower Upper
84 100
49 100.4 83.2 124.8
51 32.0 26.4 39.6
86 63.8 51.4 77.0





#25

2-Butanone

Concen: 1.846 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN051376.D

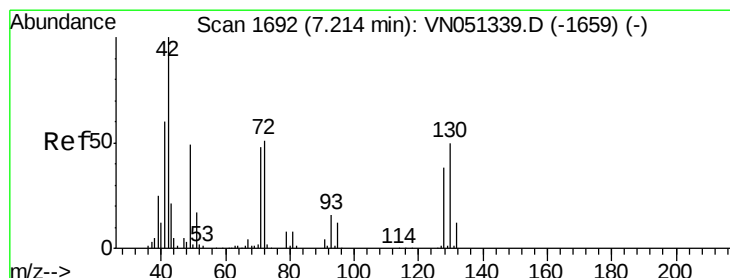
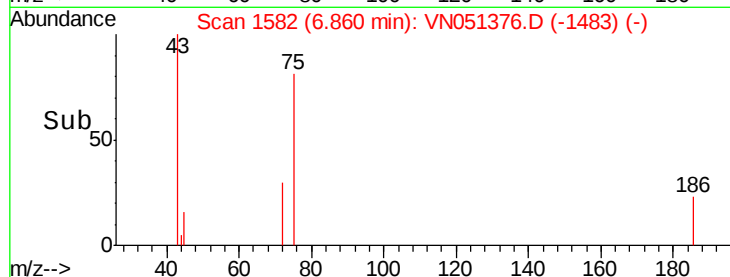
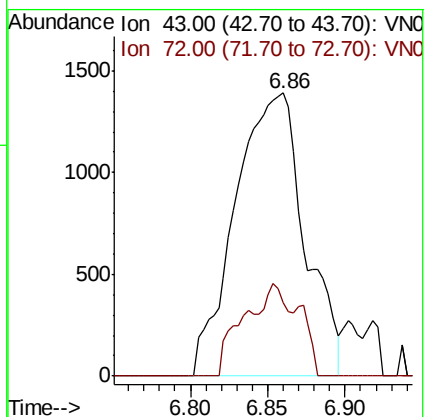
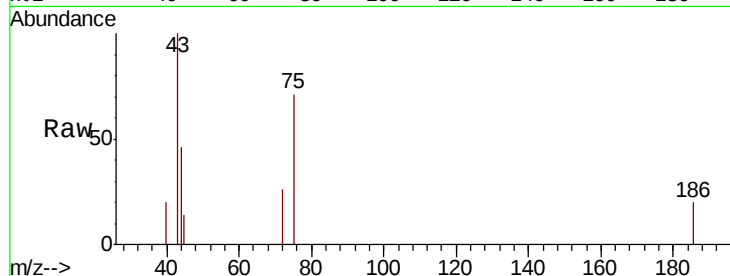
Acq: 21 Sep 2018 18:13

Tot Ion: 43 Resp: 4325

Ion Ratio Lower Upper

43 100

72 26.0 24.7 37.1



#29

Tetrahydrofuran

Concen: 0.671 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

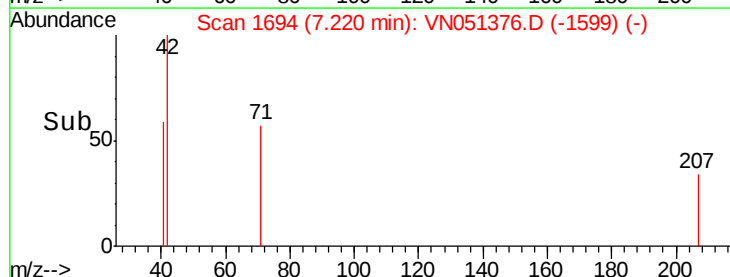
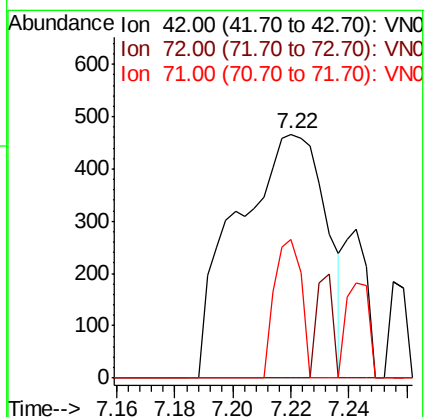
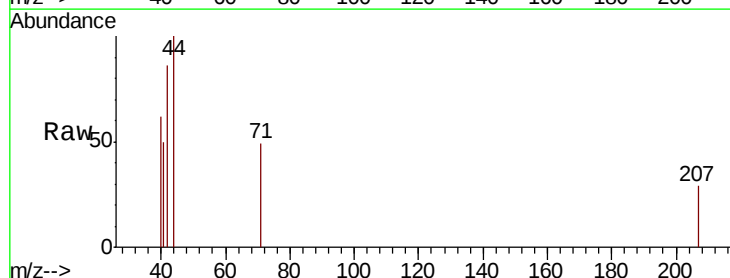
Tgt Ion: 42 Resp: 996

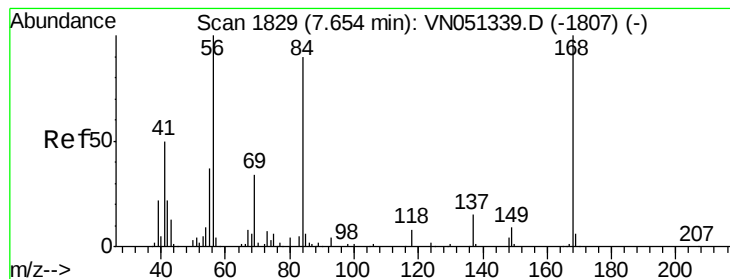
Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.4#

71 17.1 36.5 54.7#





#31

Cyclohexane

Concen: 0.491 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

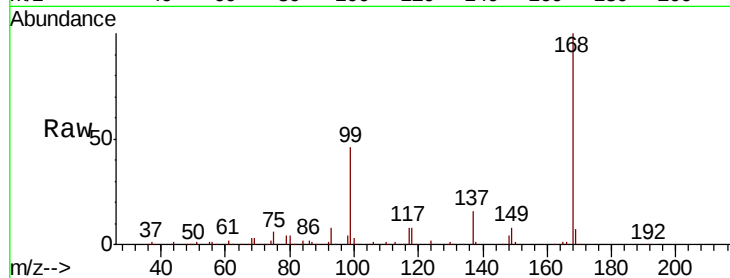
Tot Ion: 56 Resp: 11363

Ion Ratio Lower Upper

56 100

69 219.3 27.3 40.9#

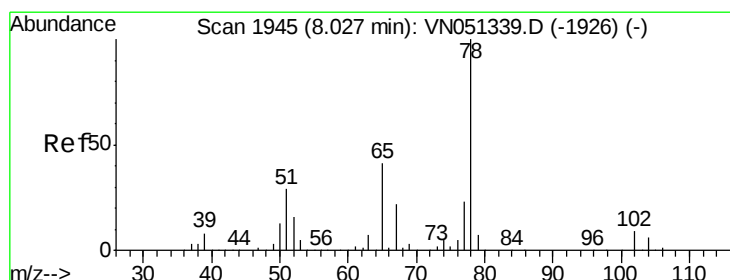
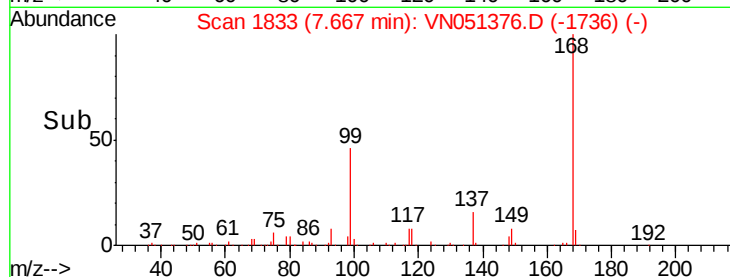
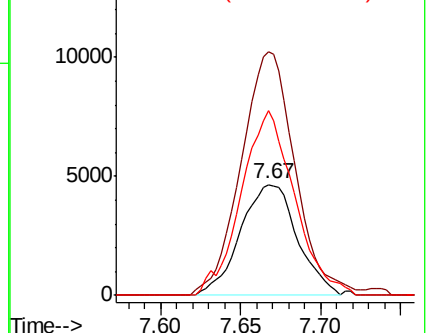
84 166.2 72.2 108.2#



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: 51.397 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051376.D

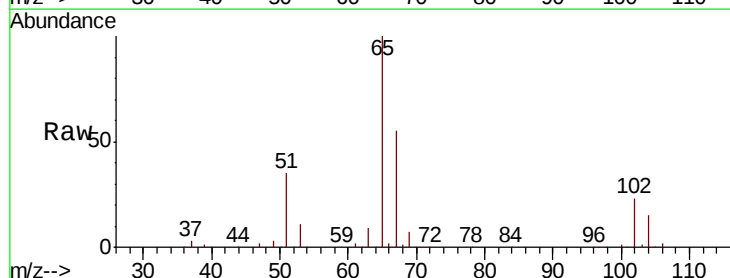
Acq: 21 Sep 2018 18:13

Tgt Ion: 65 Resp: 421518

Ion Ratio Lower Upper

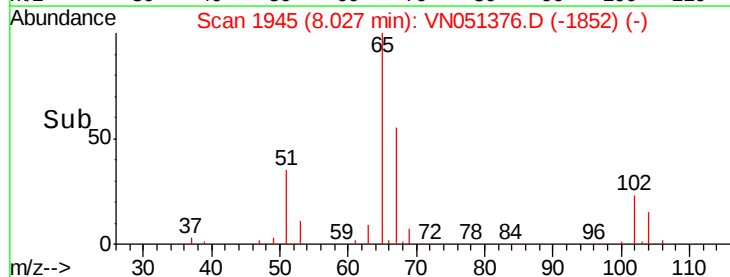
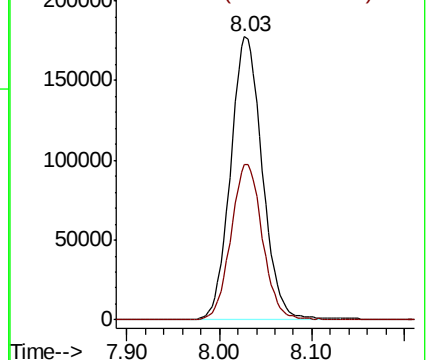
65 100

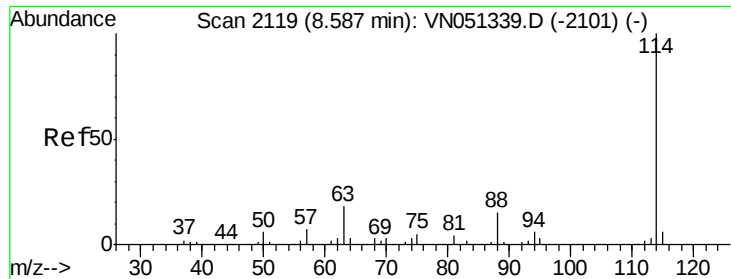
67 54.3 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

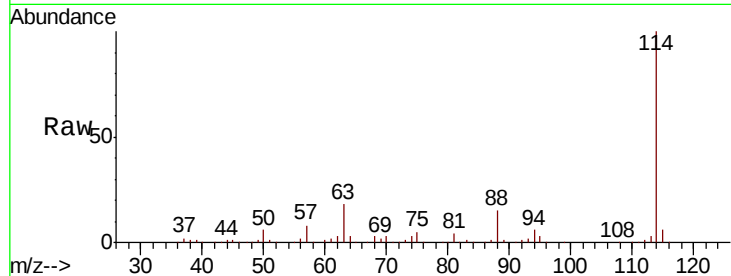
Ion 66.90 (66.60 to 67.60): VN0



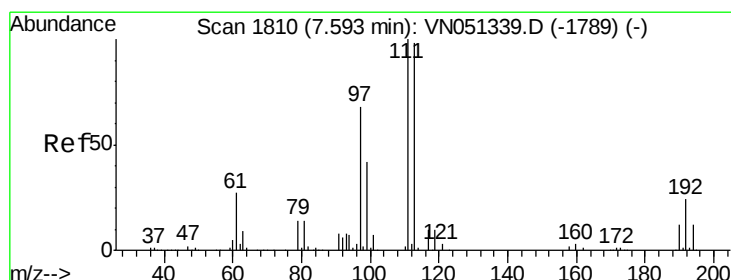
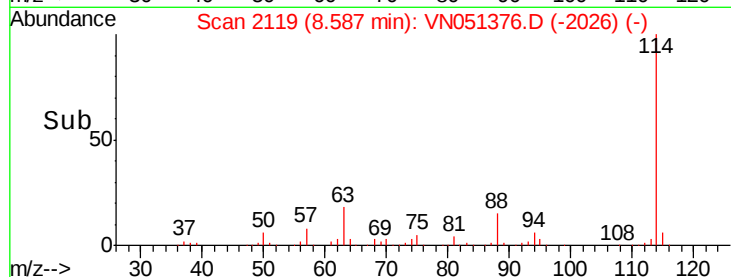
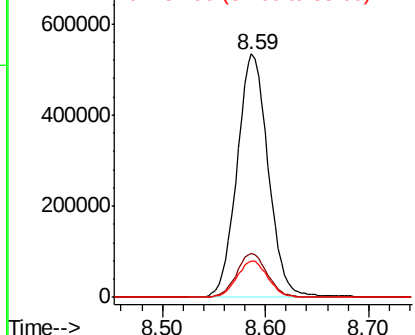


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051376.D
 Acq: 21 Sep 2018 18:13

Tot Ion:114 Resp: 1124654
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.6
 88 15.2 0.0 29.8

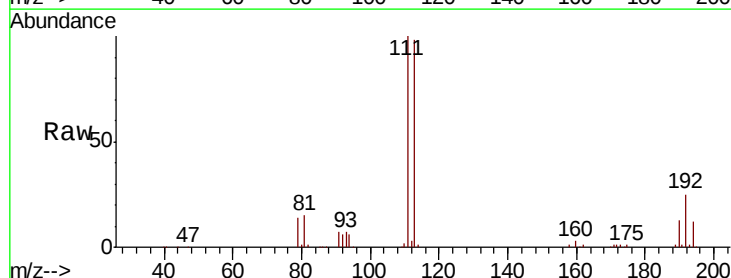


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

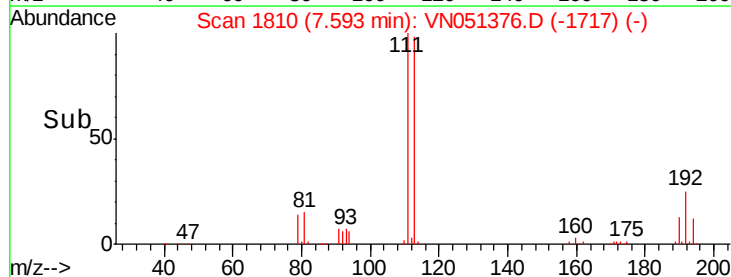
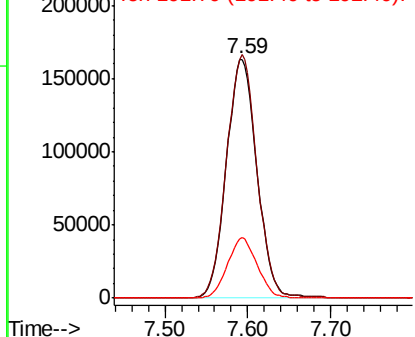


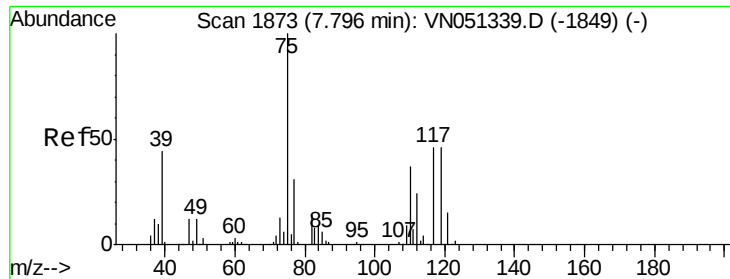
#35
 Dibromofluoromethane
 Concen: 46.080 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051376.D
 Acq: 21 Sep 2018 18:13

Tgt Ion:113 Resp: 418808
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.9 122.9
 192 24.5 19.8 29.6



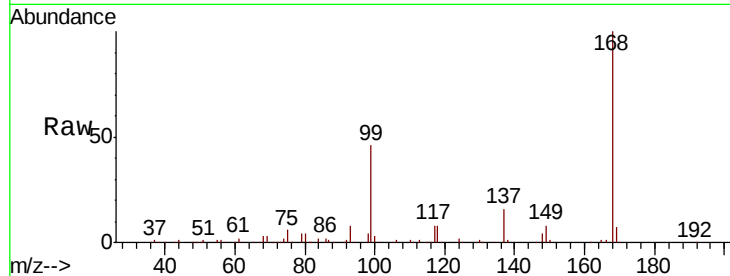
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



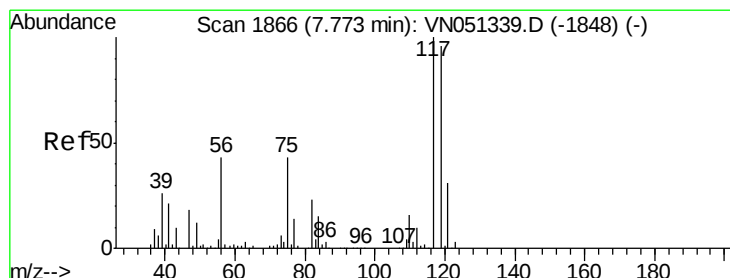
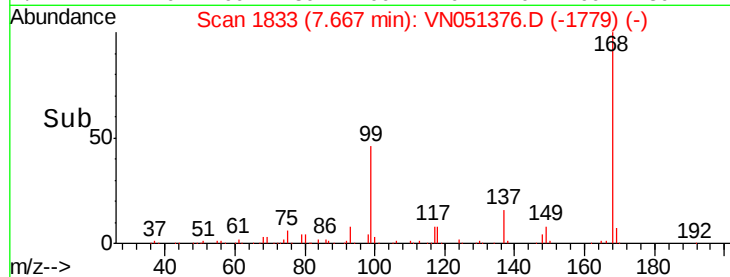
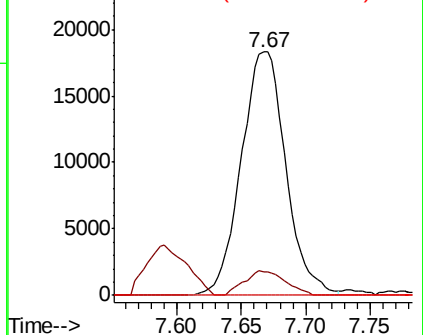


#36
 1,1-Dichloropropene
 Concen: 3.842 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051376.D
 Acq: 21 Sep 2018 18:13

Tot Ion	75	Resp	44200
Ion Ratio	100	Lower	Upper
75	100		
110	9.2	18.9	56.5#
77	0.0	25.4	38.2#

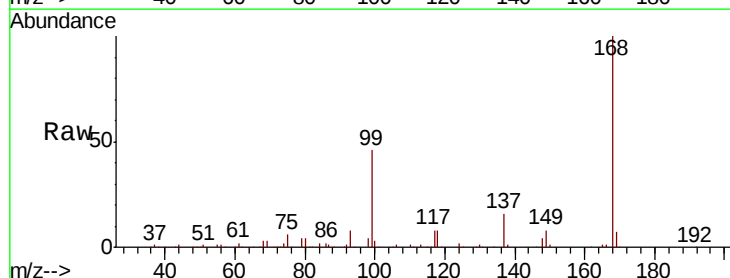


Abundance Ion 74.90 (74.60 to 75.60): VN051339.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN051339.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN051339.D (-1849) (-)

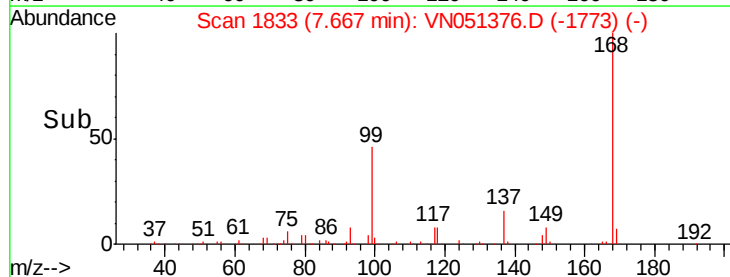
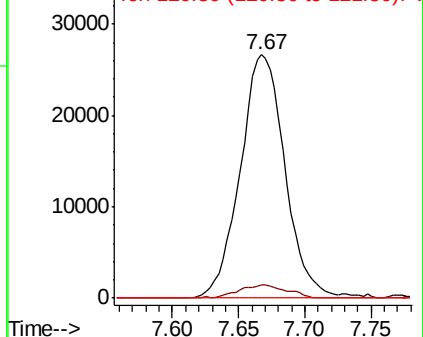


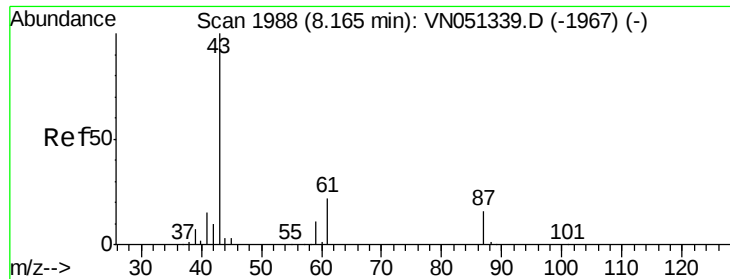
#38
 Carbon Tetrachloride
 Concen: 5.002 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051376.D
 Acq: 21 Sep 2018 18:13

Tgt Ion	117	Resp	62249
Ion Ratio	100	Lower	Upper
117	100		
119	5.5	77.0	115.4#
121	0.0	25.0	37.4#



Abundance Ion 116.80 (116.50 to 117.50): VN051339.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN051339.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN051339.D (-1848) (-)





#43

Isopropyl Acetate

Concen: 28.101 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

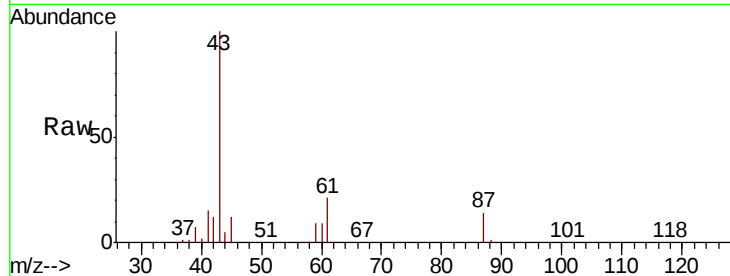
Tot Ion: 43 Resp: 280282

Ion Ratio Lower Upper

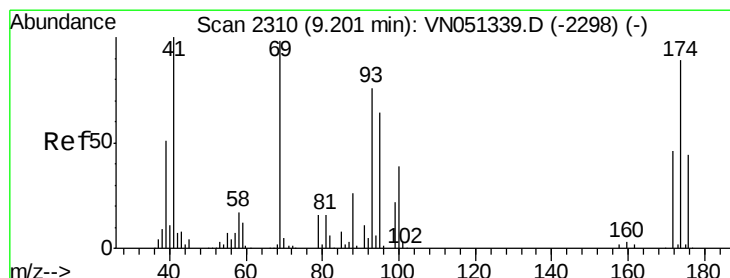
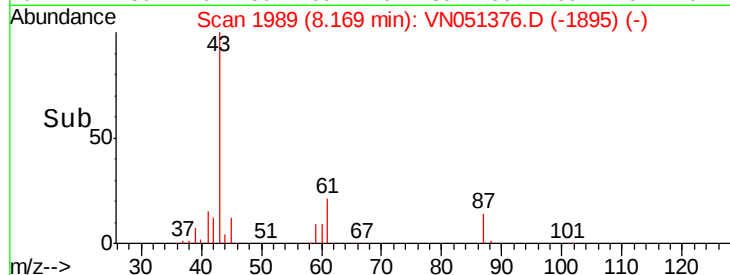
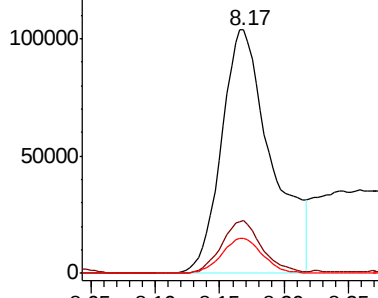
43 100

61 17.5 18.1 27.1#

87 11.8 12.8 19.2#



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: 1.142 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

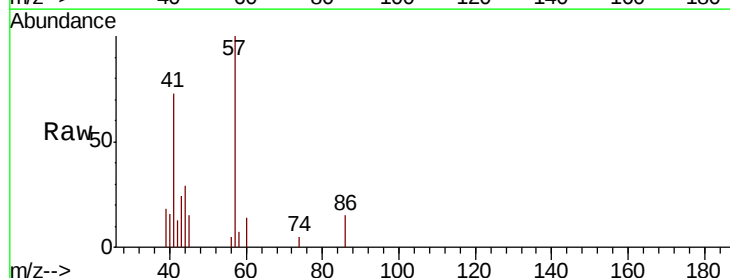
Tgt Ion: 41 Resp: 5808

Ion Ratio Lower Upper

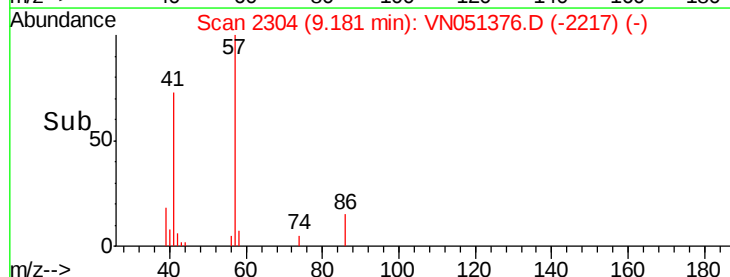
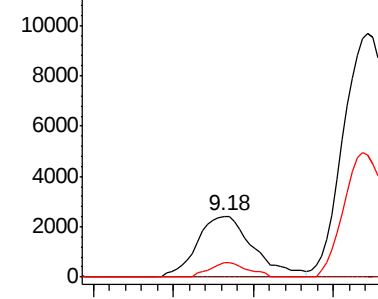
41 100

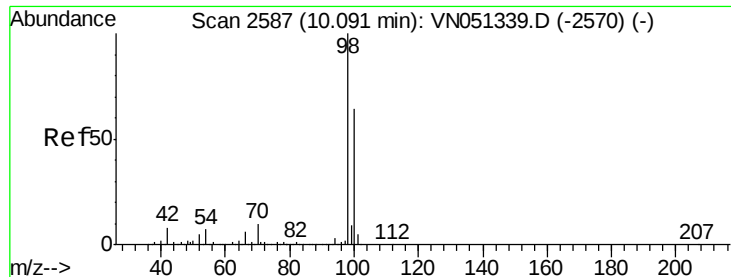
69 0.0 79.4 119.0#

39 16.0 43.0 64.6#



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: 43.311 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051376.D

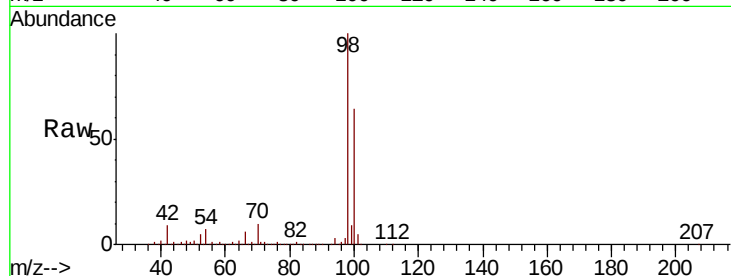
Acq: 21 Sep 2018 18:13

Tot Ion: 98 Resp: 1513271

Ion Ratio Lower Upper

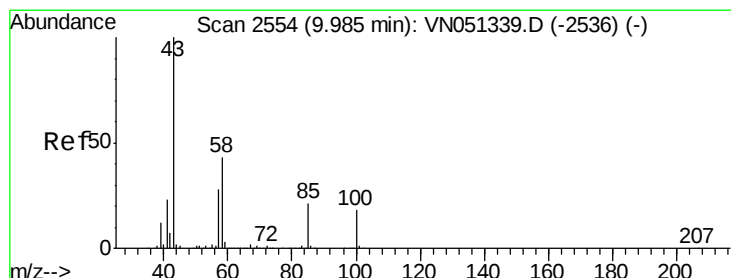
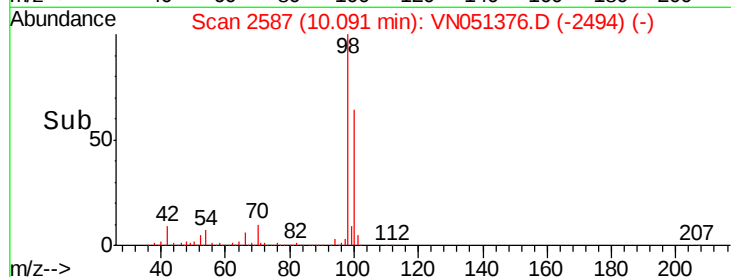
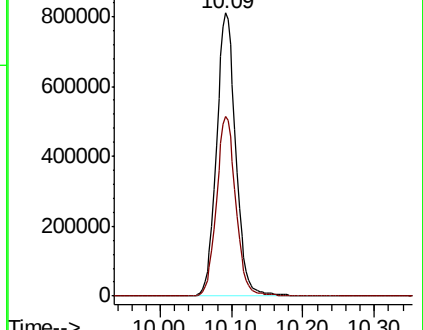
98 100

100 63.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051339.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.408 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051376.D

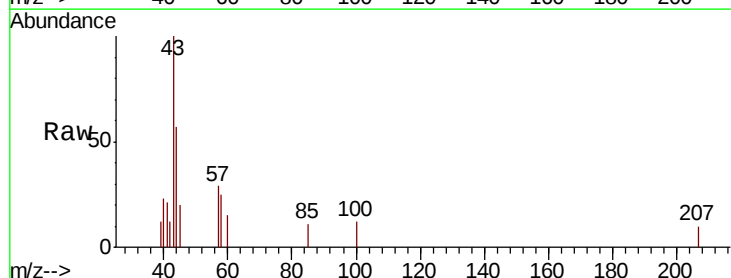
Acq: 21 Sep 2018 18:13

Tgt Ion: 43 Resp: 2191

Ion Ratio Lower Upper

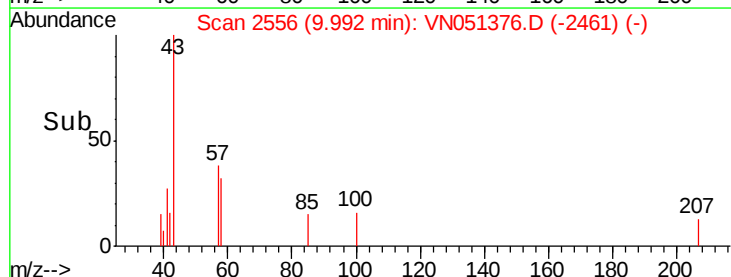
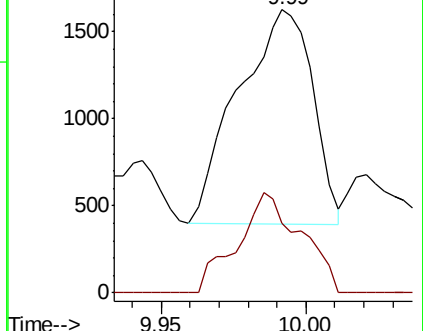
43 100

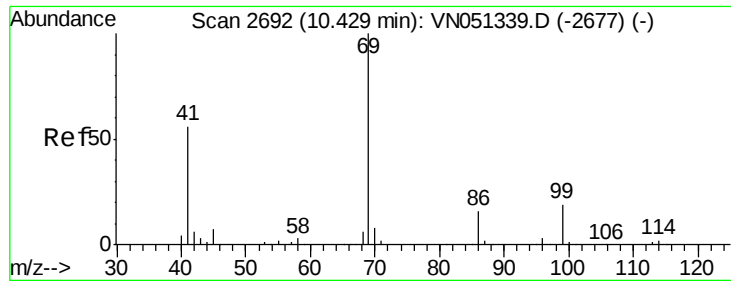
58 39.8 34.2 51.4



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-2536) (-)

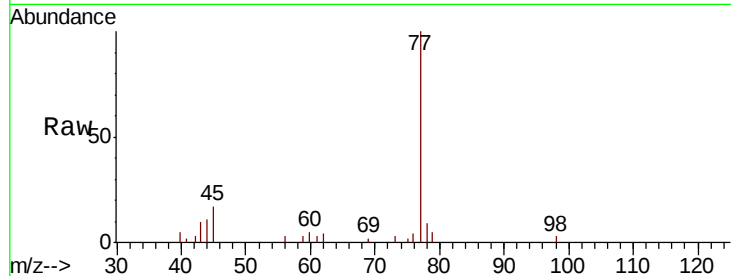
Ion 58.00 (57.70 to 58.70): VN051339.D (-2536) (-)



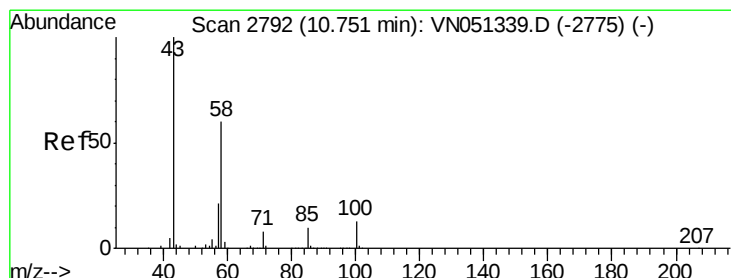
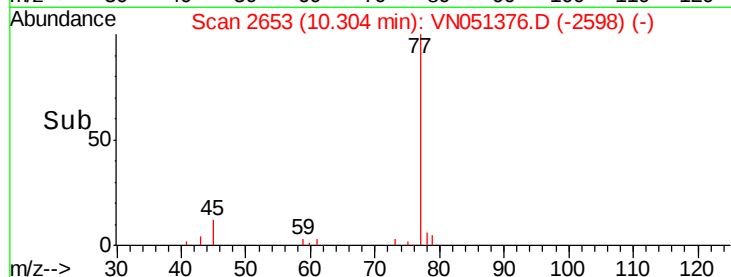
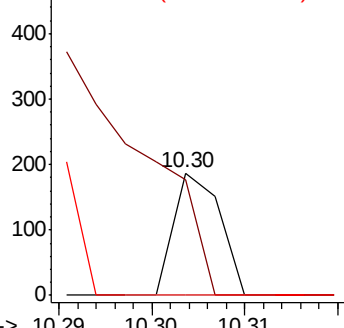


#56
Ethyl methacrylate
Concen: 1.583 ug/l
RT: 10.30 min Scan# 2653
Delta R.T. -0.12 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

Tot Ion: 69 Resp: 65
Ion Ratio Lower Upper
69 100
41 0.0 45.1 67.7#
39 0.0 23.4 35.2#

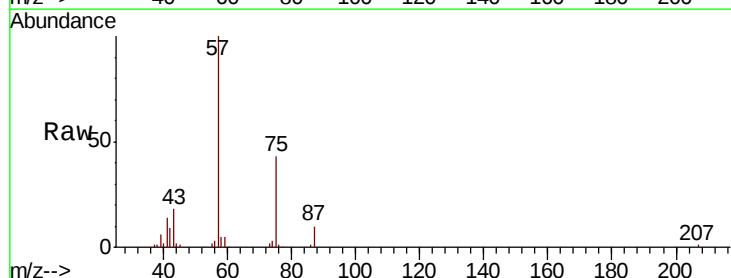


Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

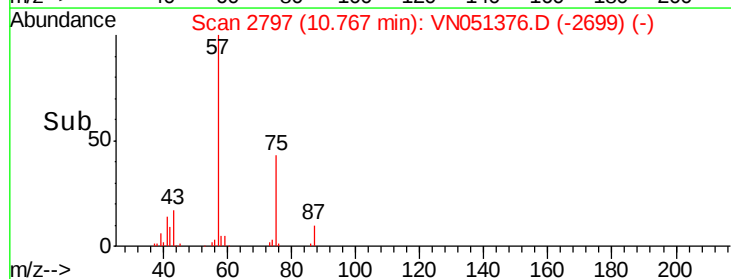
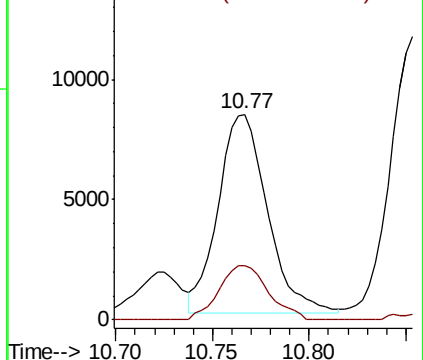


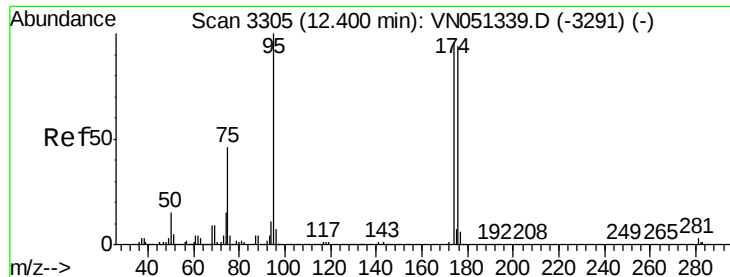
#59
2-Hexanone
Concen: 4.066 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

Tgt Ion: 43 Resp: 14707
Ion Ratio Lower Upper
43 100
58 27.3 29.9 89.8#



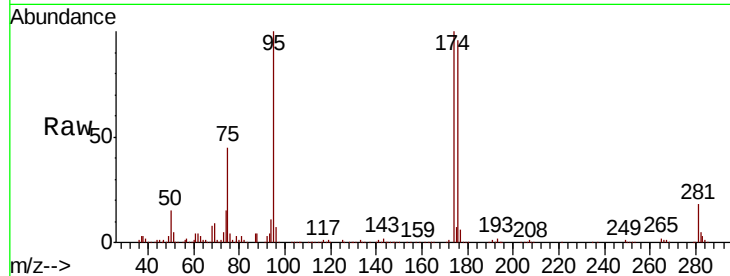
Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



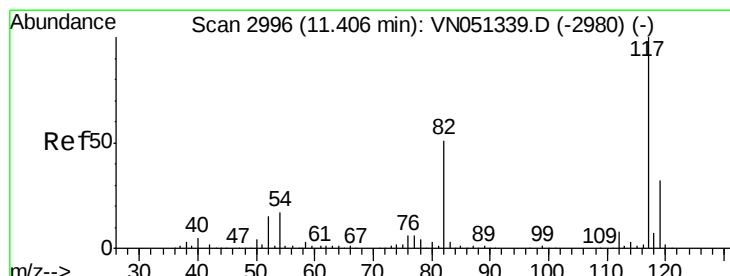
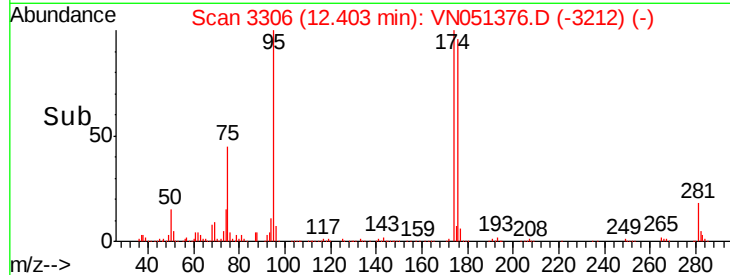
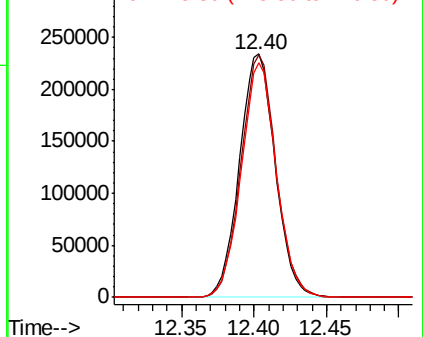


#62
4-Bromofluorobenzene
Concen: 35.297 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

Tot Ion:	95	Resp:	401221
Ion	Ratio	Lower	Upper
95	100		
174	98.1	0.0	194.6
176	94.7	0.0	189.6

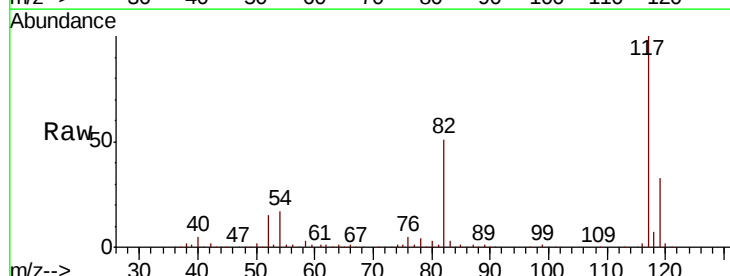


Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

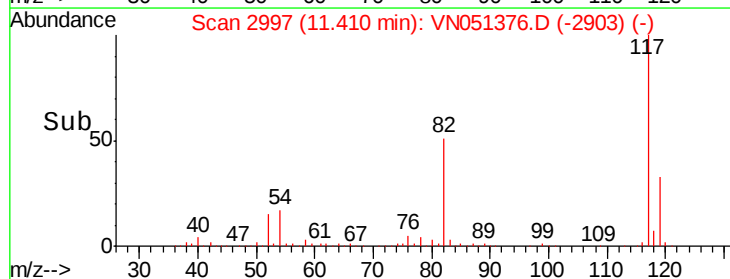
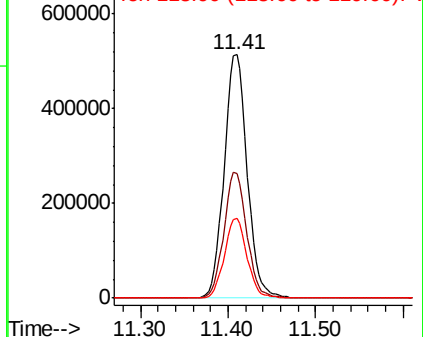


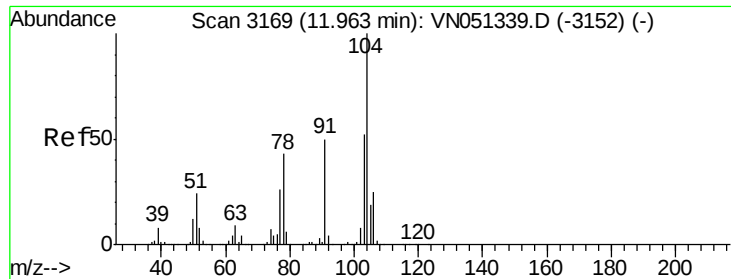
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051376.D
Acq: 21 Sep 2018 18:13

Tgt Ion:	117	Resp:	941262
Ion	Ratio	Lower	Upper
117	100		
82	51.0	40.7	61.1
119	32.6	25.3	37.9



Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)





#70

Stvrene

Concen: 0.899 ug/l

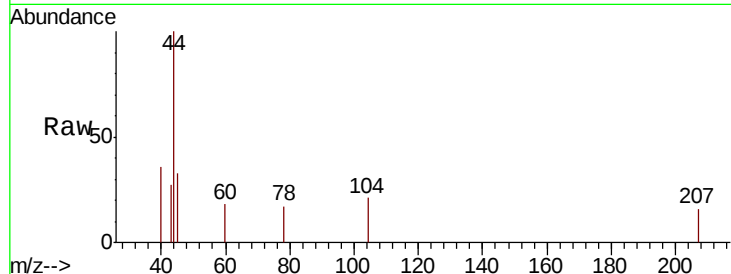
RT: 11.97 min Scan# 3171

Delta R.T. 0.01 min

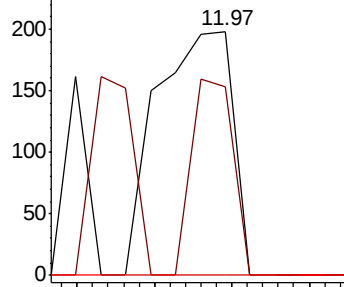
Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

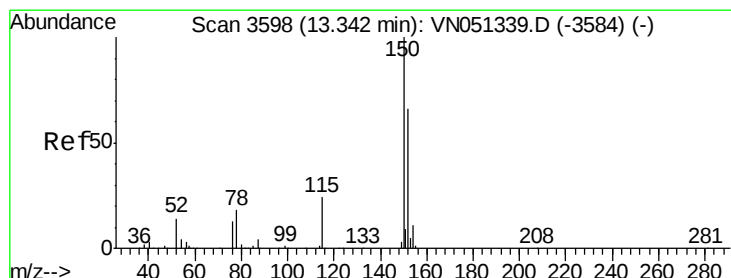
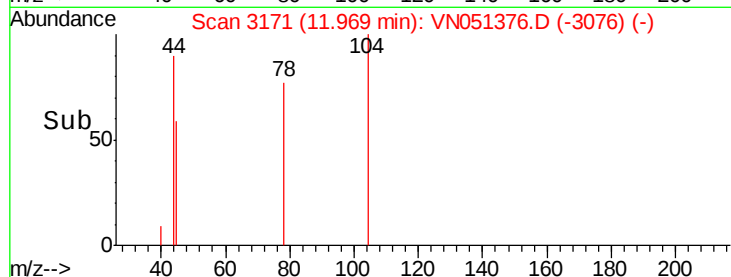
Tot Ion:	104	Resp:	137
Ion	Ratio	Lower	Upper
104	100		
78	43.8	37.8	56.6
103	0.0	44.3	66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

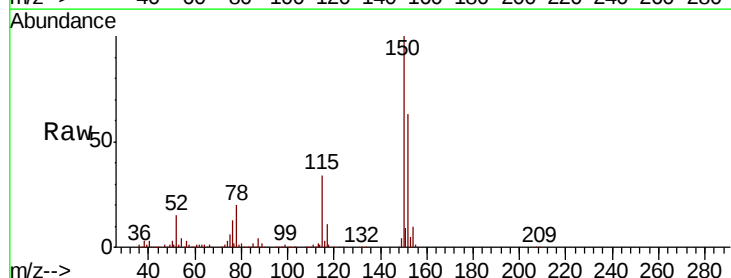
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

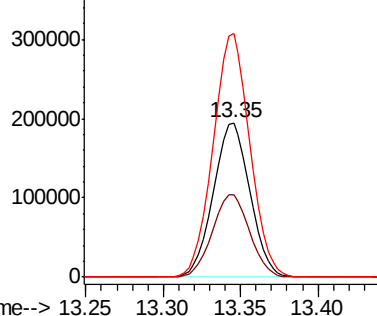
Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

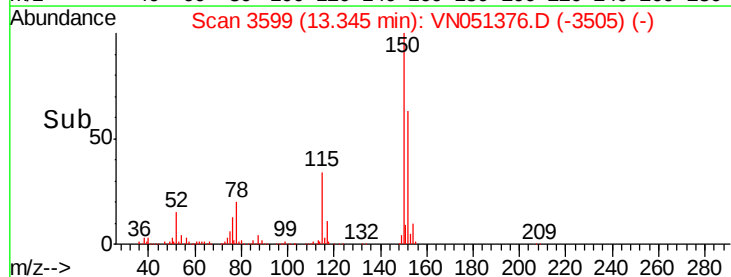
Tgt Ion:	152	Resp:	321528
Ion	Ratio	Lower	Upper
152	100		
115	54.0	26.9	80.7
150	158.1	0.0	345.0

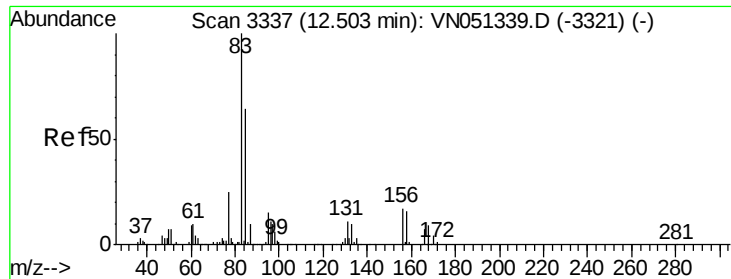


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3312

Delta R.T. -0.08 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

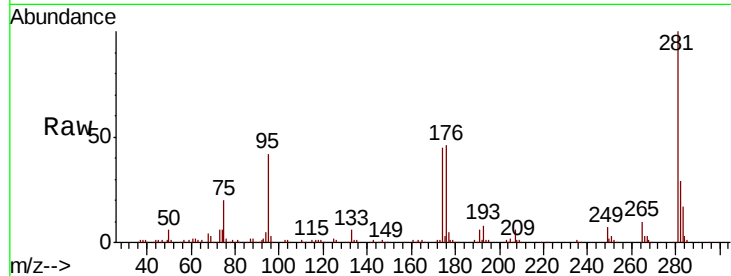
Tot Ion: 83 Resp: 63

Ion Ratio Lower Upper

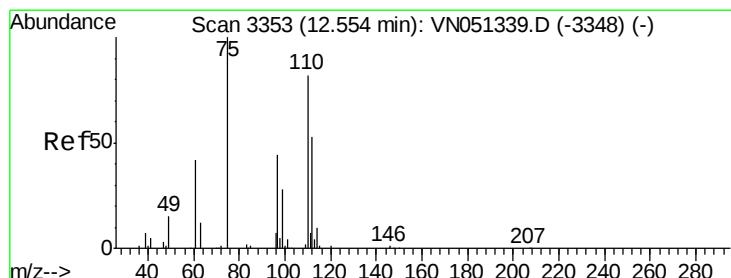
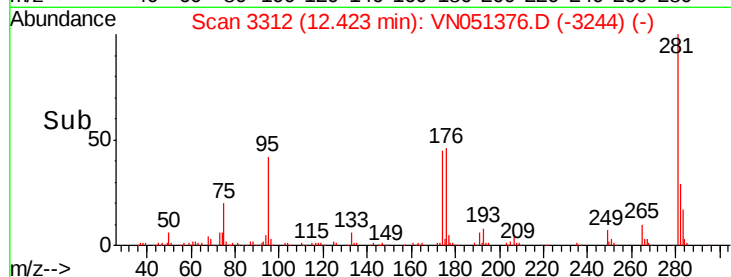
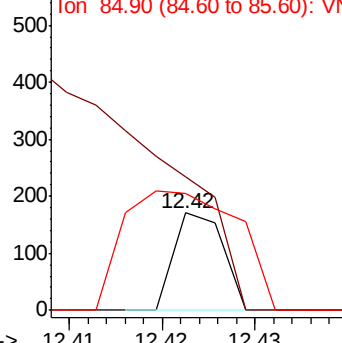
83 100

131 0.0 5.5 16.7#

85 281.0 32.3 96.9#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 42.737 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051376.D

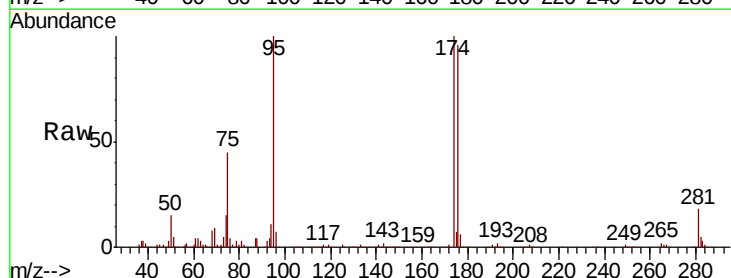
Acq: 21 Sep 2018 18:13

Tgt Ion: 75 Resp: 183344

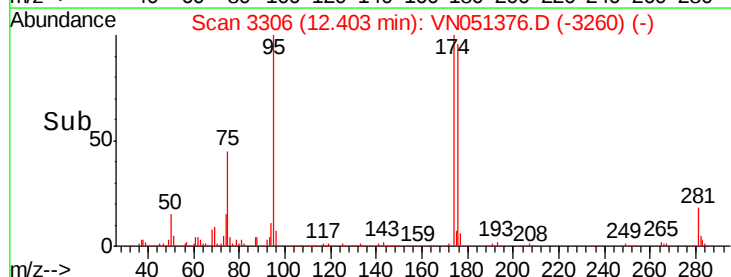
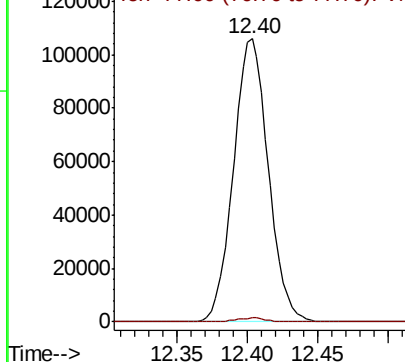
Ion Ratio Lower Upper

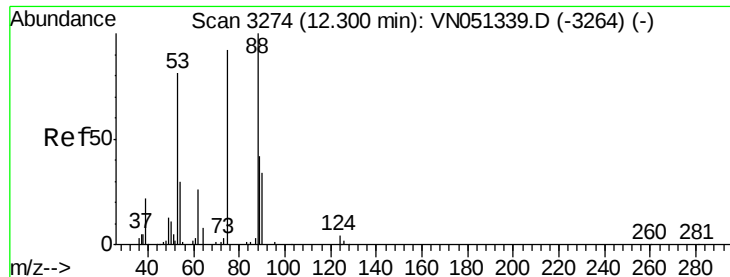
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 127.845 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

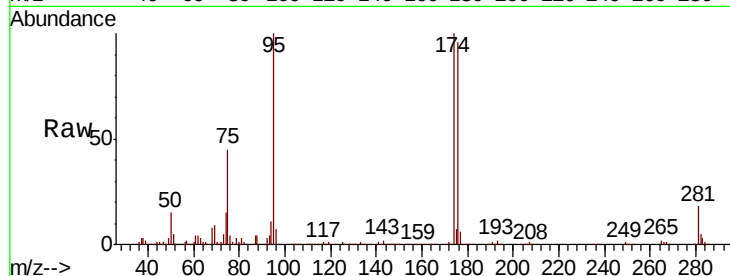
Tot Ion: 75 Resp: 183344

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

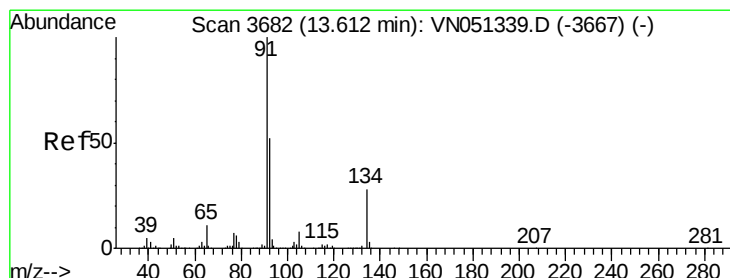
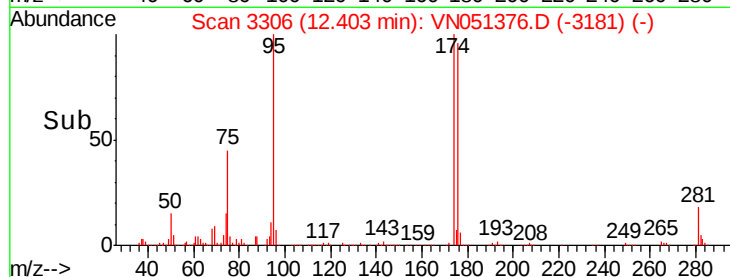
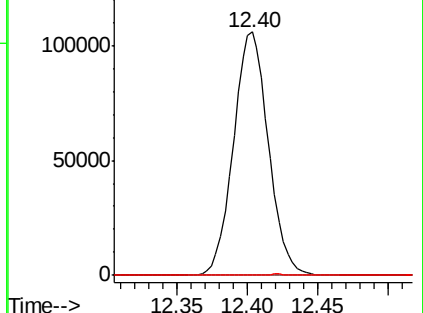
89 0.0 37.9 56.9#



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



#89

n-Butylbenzene

Concen: 1.437 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.01 min

Lab File: VN051376.D

Acq: 21 Sep 2018 18:13

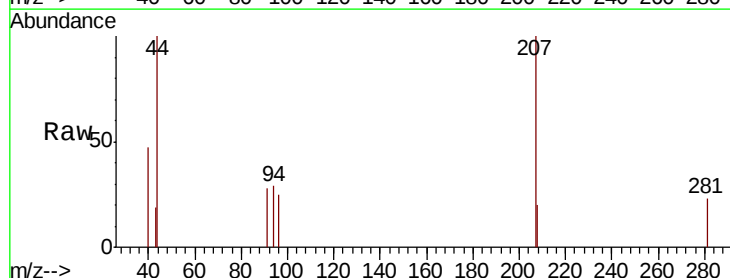
Tgt Ion: 91 Resp: 151

Ion Ratio Lower Upper

91 100

92 0.0 26.0 78.0#

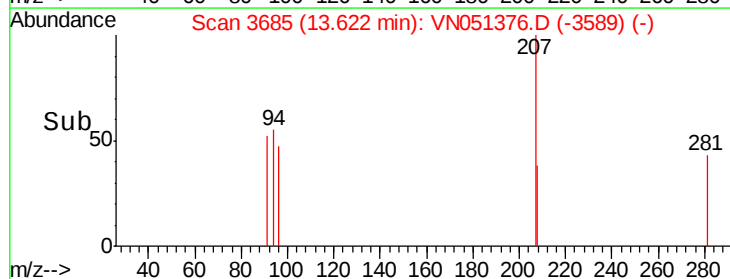
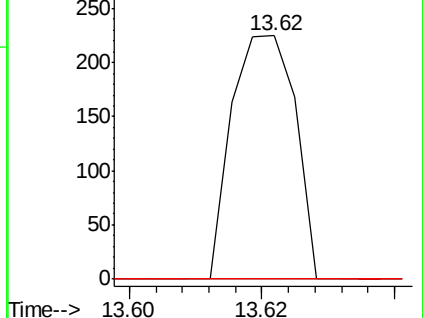
134 0.0 14.1 42.4#

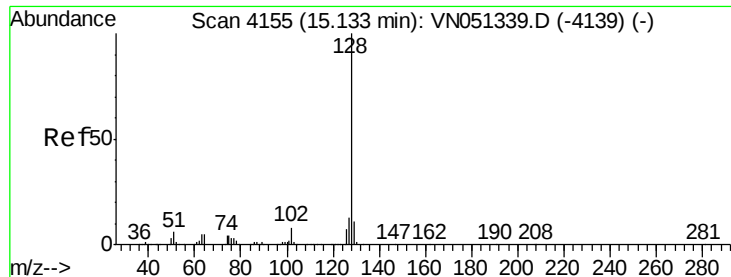


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

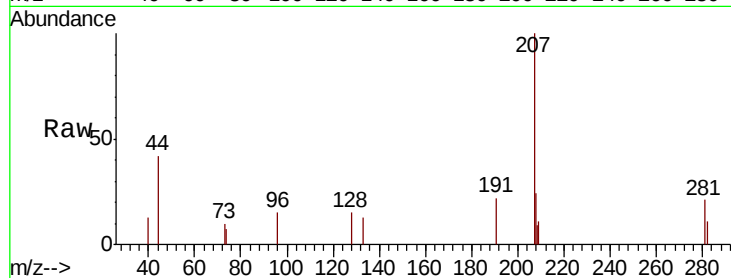
Ion 134.00 (133.70 to 134.70): V





#95
 Naphthalene
 Concen: 5.355 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN051376.D
 Acq: 21 Sep 2018 18:13

Tot Ion:	128	Resp:	304
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



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

