

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051383.D
 Acq On : 21 Sep 2018 21:05
 Operator : MD\SY
 Sample : PB113086ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 21 23:05:29 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	748171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1115428	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	936537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355035	50.00	ug/l	0.00

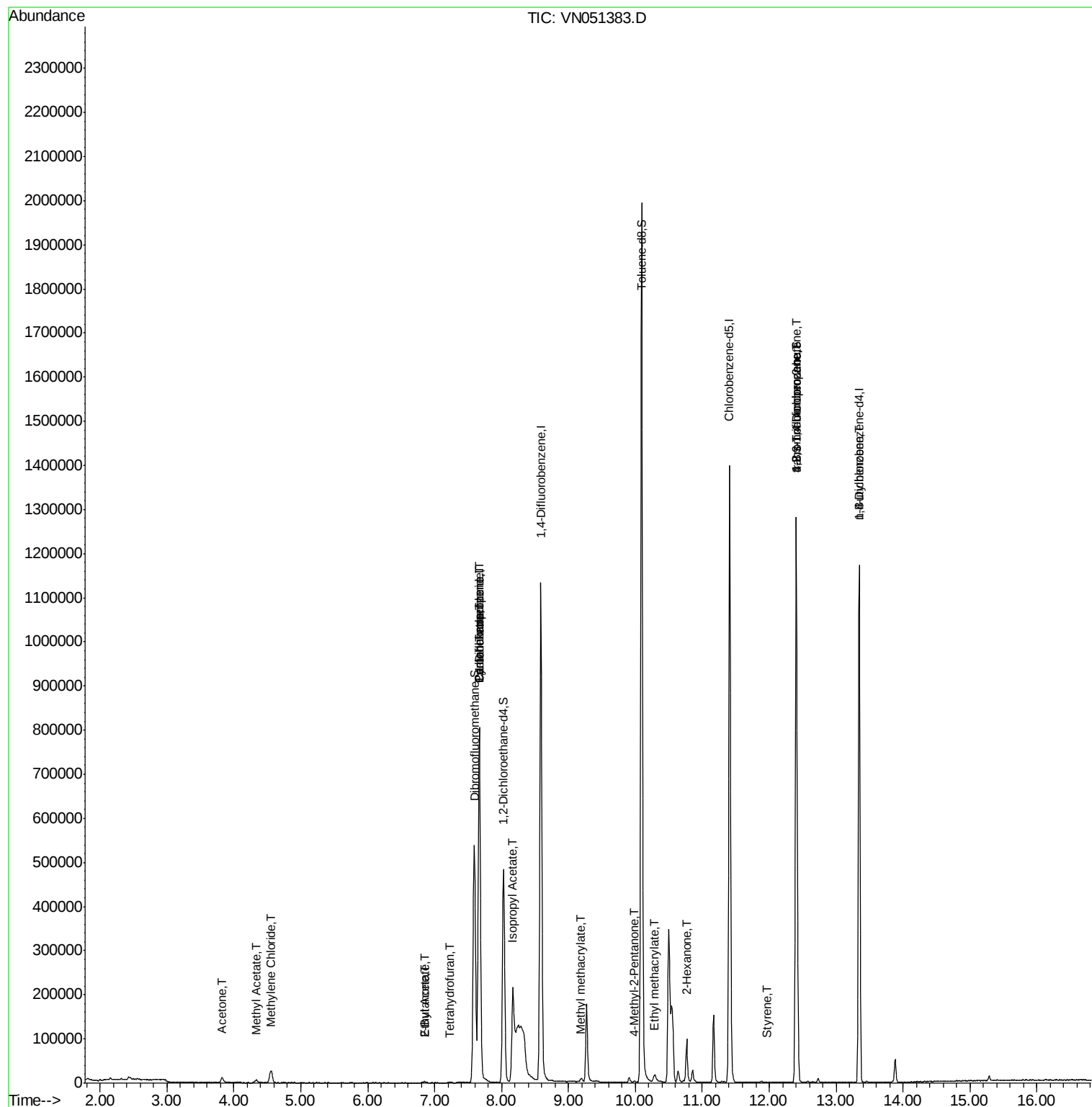
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	417043	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
35) Dibromofluoromethane	7.59	113	410435	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	
50) Toluene-d8	10.09	98	1498168	43.23	ug/l	0.00
Spiked Amount			Recovery	=	86.46%	
62) 4-Bromofluorobenzene	12.40	95	408691	36.25	ug/l	0.00
Spiked Amount			Recovery	=	72.50%	

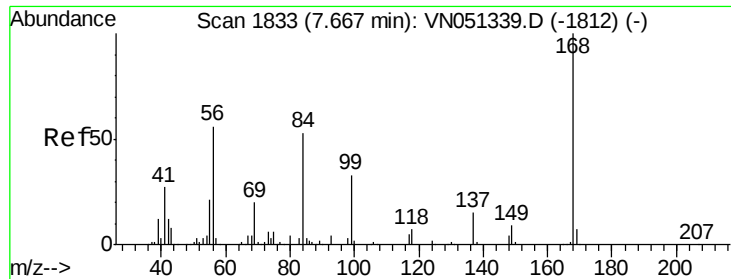
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1067	Below Cal		93
16) Acetone	3.82	43	18875	10.450	ug/l	100
18) Methyl Acetate	4.33	43	12928	1.662	ug/l #	73
20) Methylene Chloride	4.55	84	22440	2.692	ug/l	95
25) 2-Butanone	6.85	43	4031	1.740	ug/l	95
29) Tetrahydrofuran	7.23	42	1060	0.722	ug/l #	34
31) Cyclohexane	7.67	56	10603	0.436	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44595	3.909	ug/l #	43
37) Ethyl Acetate	6.85	43	4031	0.714	ug/l #	64
38) Carbon Tetrachloride	7.67	117	61932	5.018	ug/l #	16
43) Isopropyl Acetate	8.17	43	270182	27.313	ug/l #	90
48) Methyl methacrylate	9.18	41	5137	1.019	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1574	0.296	ug/l	98
56) Ethyl methacrylate	10.30	69	102	1.587	ug/l #	1
59) 2-Hexanone	10.77	43	13286	3.704	ug/l #	55
70) Styrene	11.96	104	318	0.907	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.42	83	274	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	185902	39.090	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185902	117.395	ug/l #	14
89) n-Butylbenzene	13.34	91	691	1.464	ug/l #	45

(#) = 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: VN051383.D

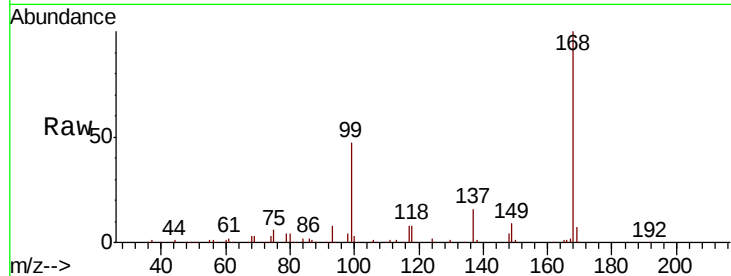
Acq: 21 Sep 2018 21:05

Tot Ion:168 Resp: 748171

Ion Ratio Lower Upper

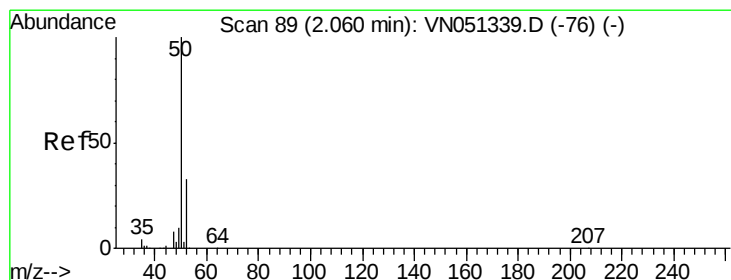
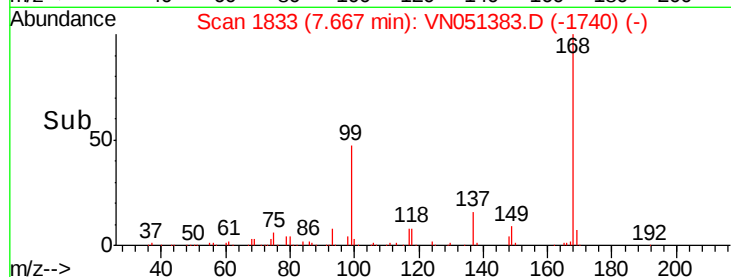
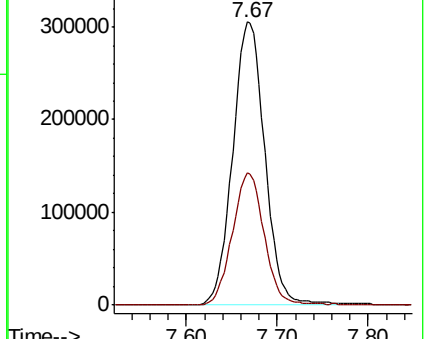
168 100

99 46.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051383.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051383.D (-1740) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051383.D

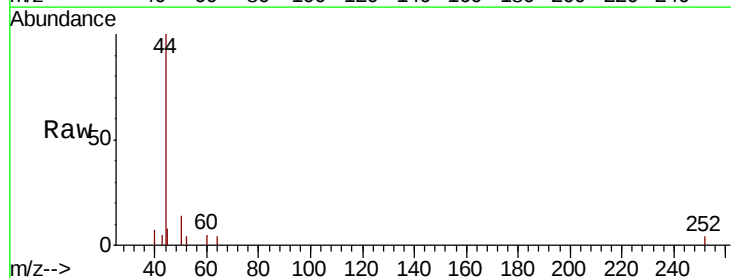
Acq: 21 Sep 2018 21:05

Tgt Ion: 50 Resp: 1067

Ion Ratio Lower Upper

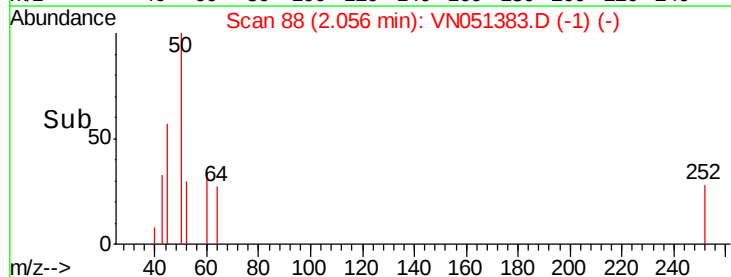
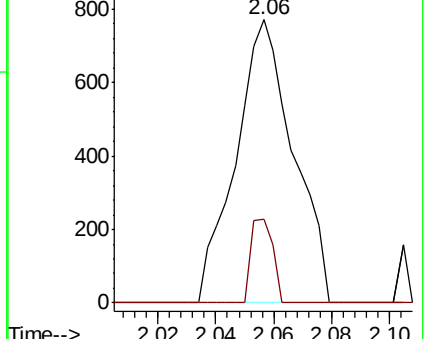
50 100

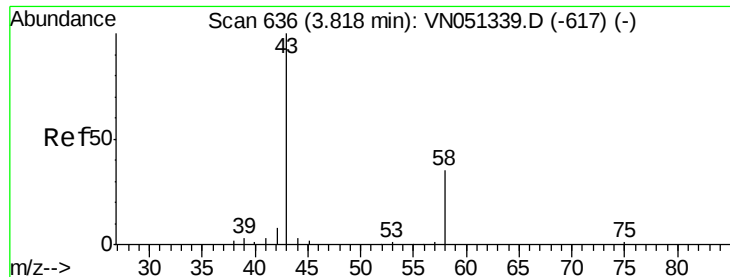
52 29.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN051383.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN051383.D (-1) (-)





#16

Acetone

Concen: 10.450 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051383.D

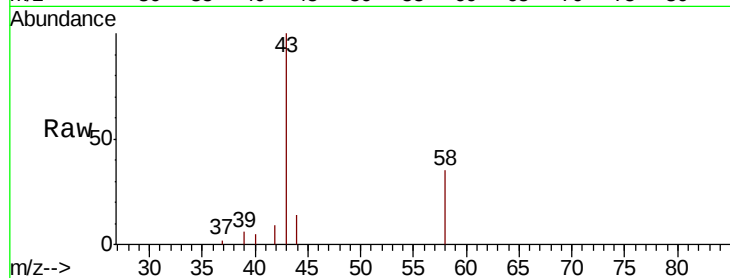
Acq: 21 Sep 2018 21:05

Tot Ion: 43 Resp: 18875

Ion Ratio Lower Upper

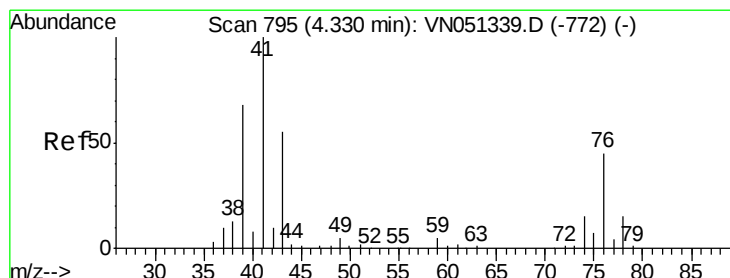
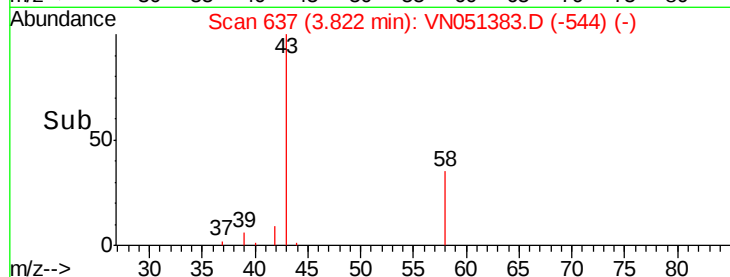
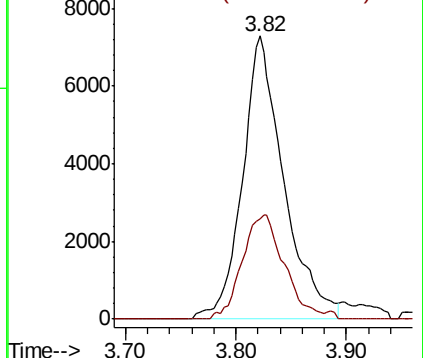
43 100

58 35.4 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN051383.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN051383.D (-544) (-)



#18

Methyl Acetate

Concen: 1.662 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051383.D

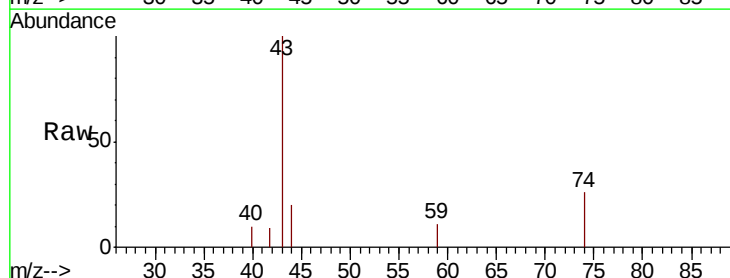
Acq: 21 Sep 2018 21:05

Tgt Ion: 43 Resp: 12928

Ion Ratio Lower Upper

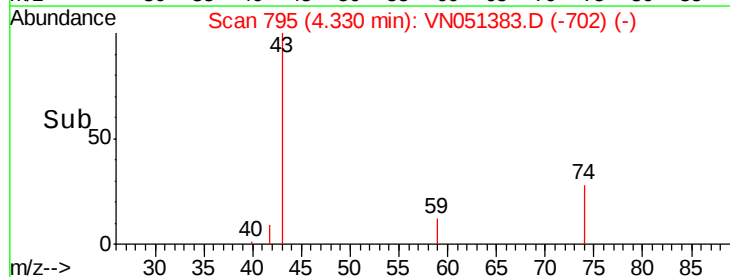
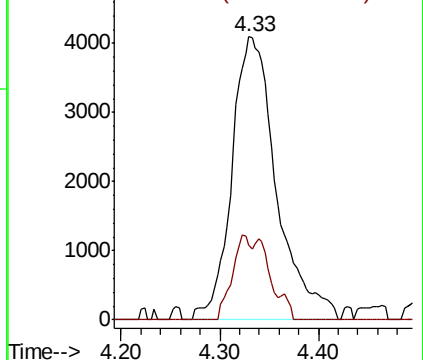
43 100

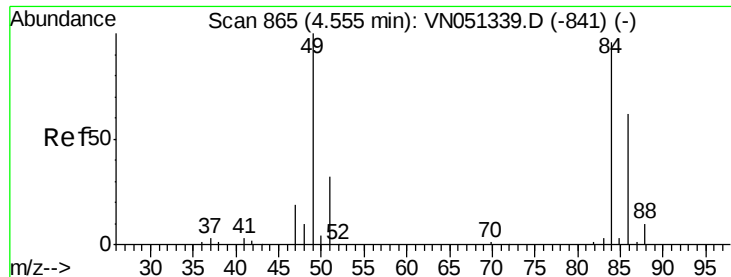
74 13.0 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN051383.D (-702) (-)

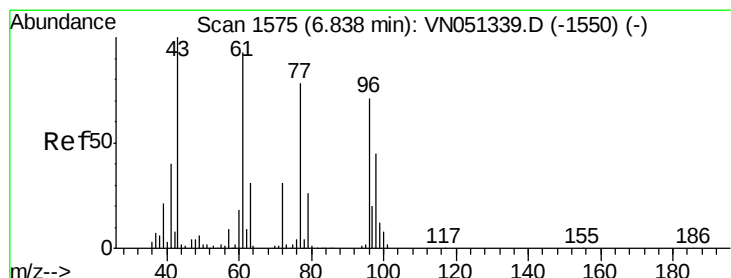
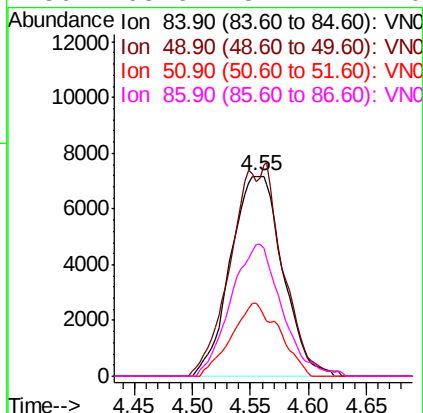
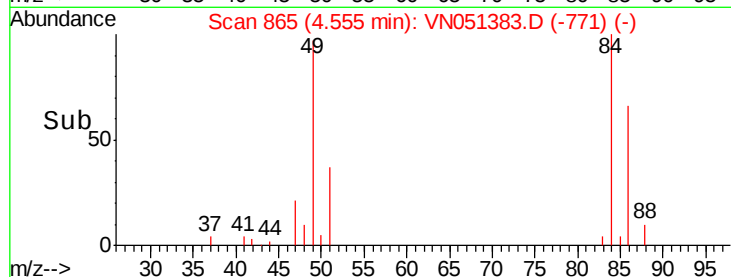
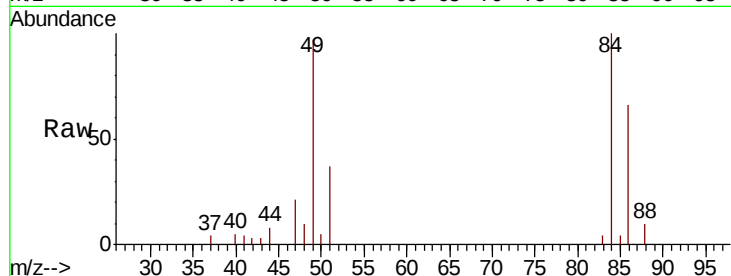
Ion 74.00 (73.70 to 74.70): VN051383.D (-702) (-)





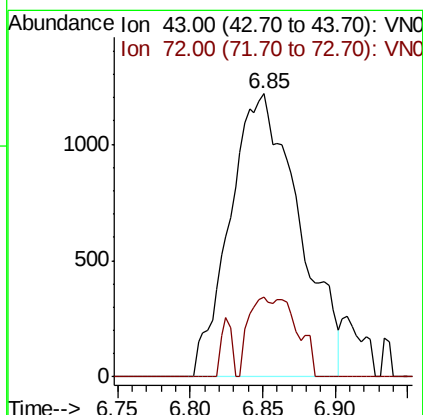
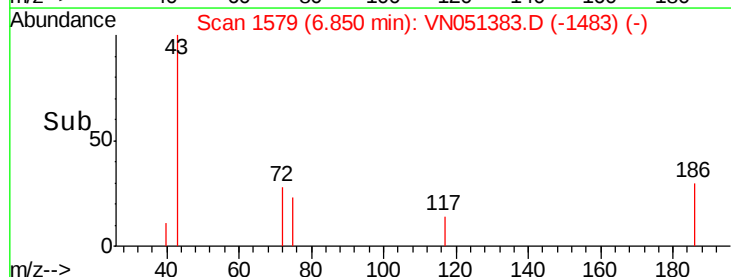
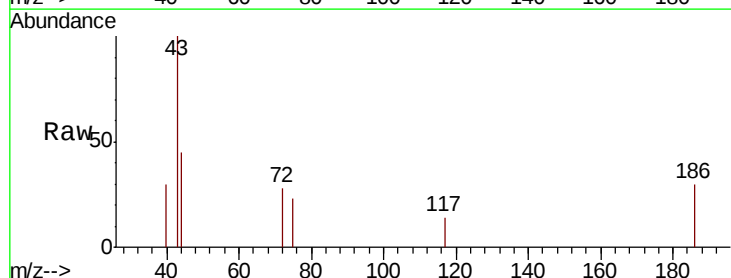
#20
Methvlene Chloride
Concen: 2.692 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

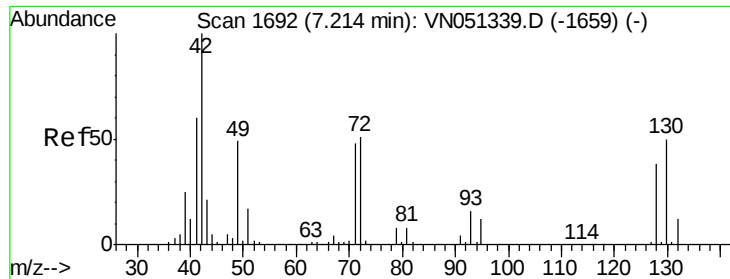
Tot Ion:	84	Resp:	22440
Ion	Ratio	Lower	Upper
84	100		
49	97.3	83.2	124.8
51	36.5	26.4	39.6
86	65.6	51.4	77.0



#25
2-Butanone
Concen: 1.740 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

Tgt Ion:	43	Resp:	4031
Ion	Ratio	Lower	Upper
43	100		
72	28.1	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.722 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

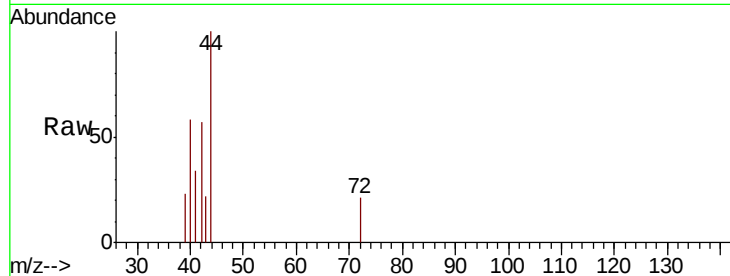
Tot Ion: 42 Resp: 1060

Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.4#

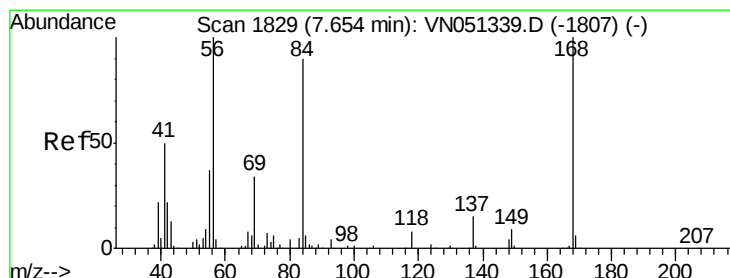
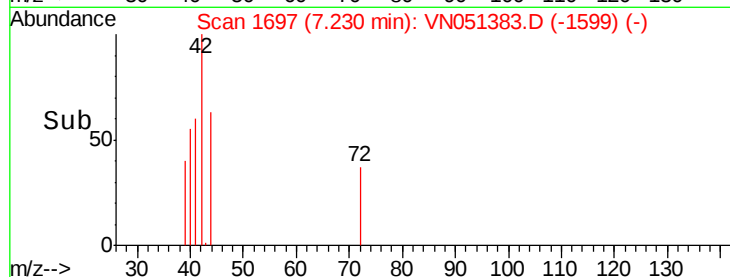
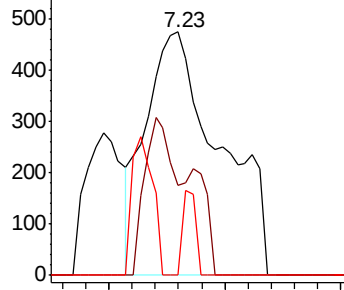
71 5.8 36.5 54.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.436 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

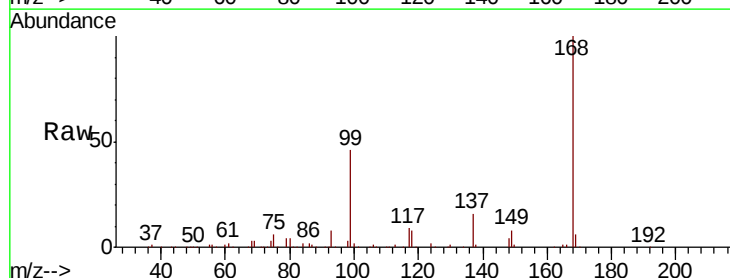
Tgt Ion: 56 Resp: 10603

Ion Ratio Lower Upper

56 100

69 222.5 27.3 40.9#

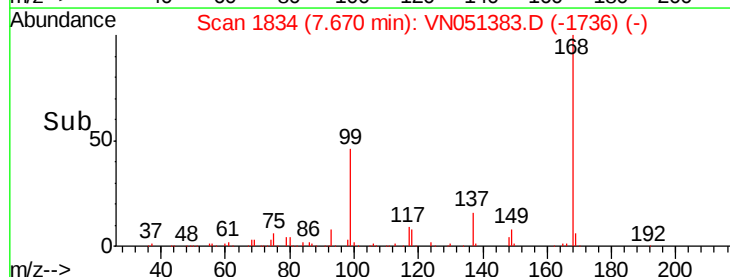
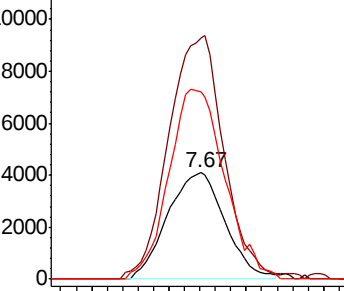
84 176.4 72.2 108.2#

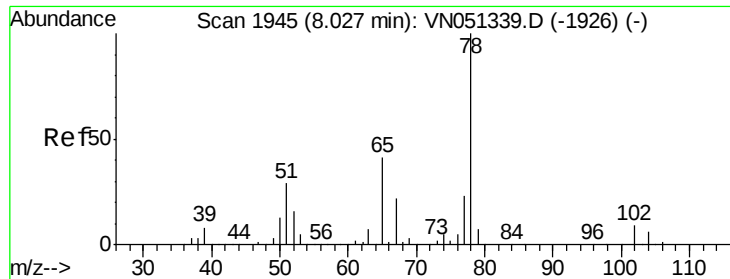


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.429 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051383.D

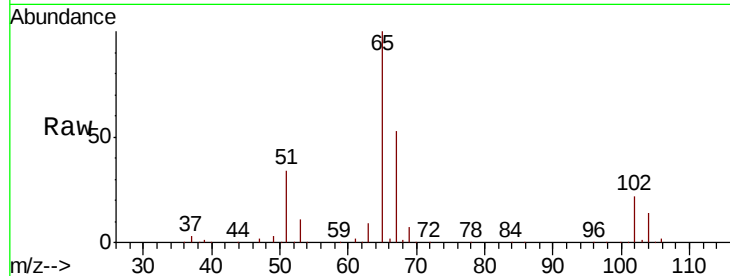
Acq: 21 Sep 2018 21:05

Tot Ion: 65 Resp: 417043

Ion Ratio Lower Upper

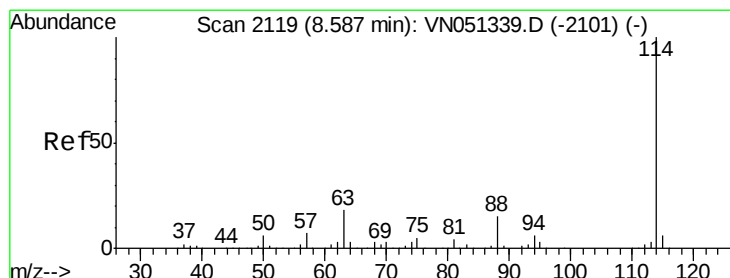
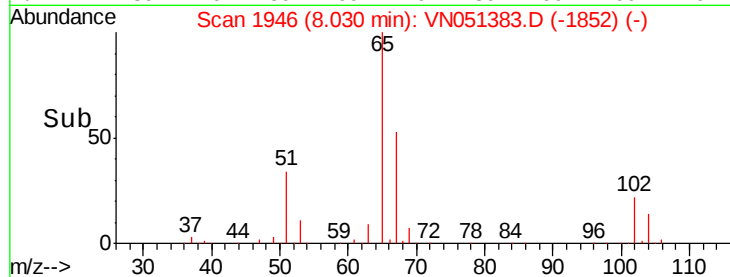
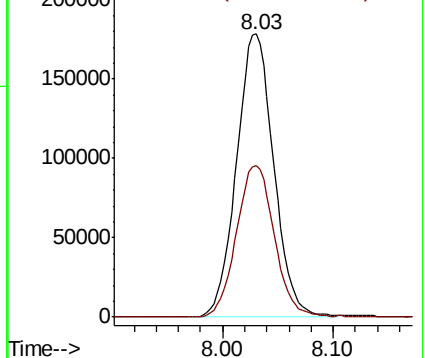
65 100

67 54.4 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: VN051383.D

Acq: 21 Sep 2018 21:05

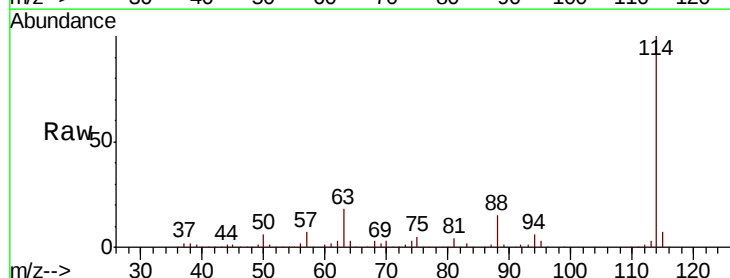
Tgt Ion: 114 Resp: 1115428

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

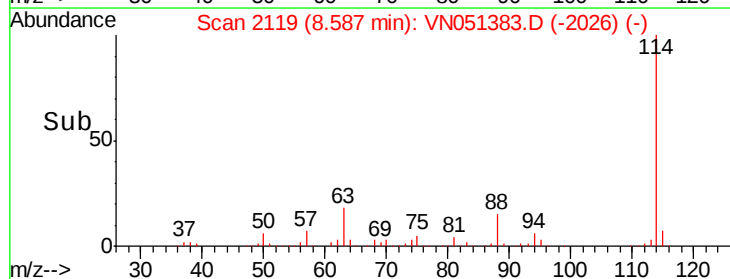
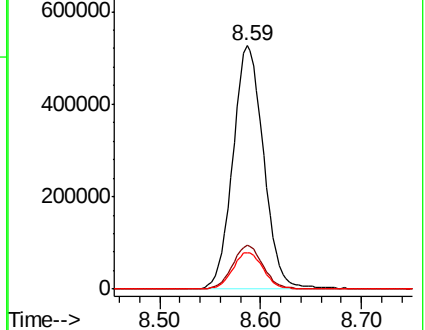
88 15.0 0.0 29.8

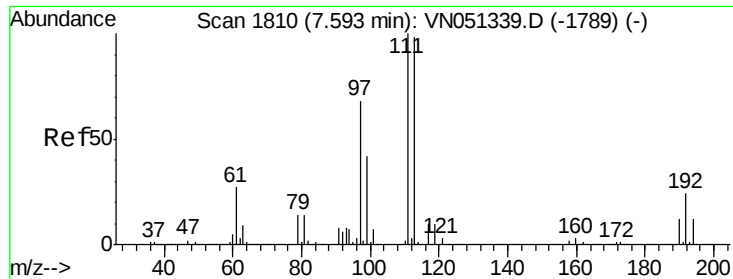


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 45.532 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

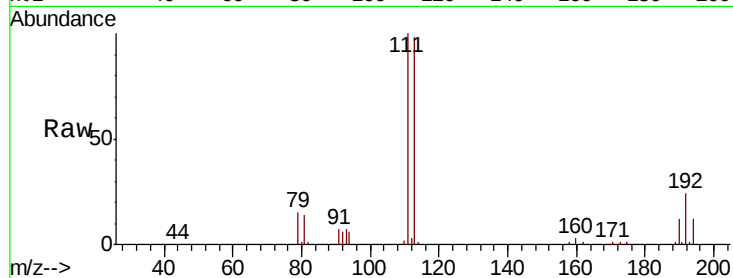
Tot Ion:113 Resp: 410435

Ion Ratio Lower Upper

113 100

111 104.3 81.9 122.9

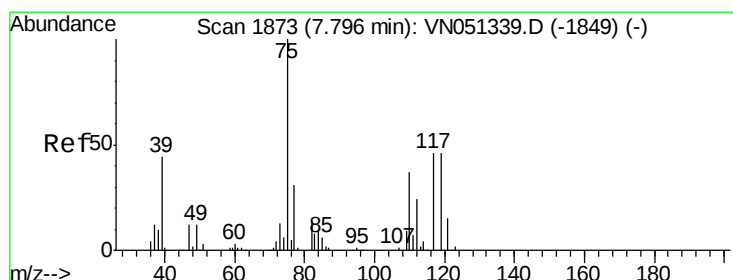
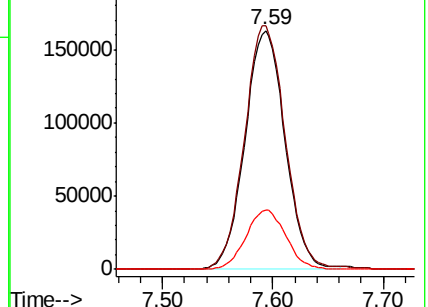
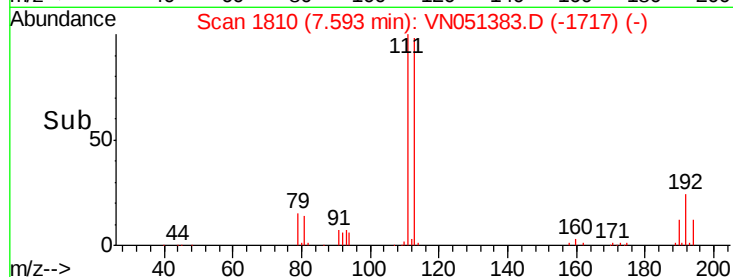
192 25.0 19.8 29.6



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: 3.909 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

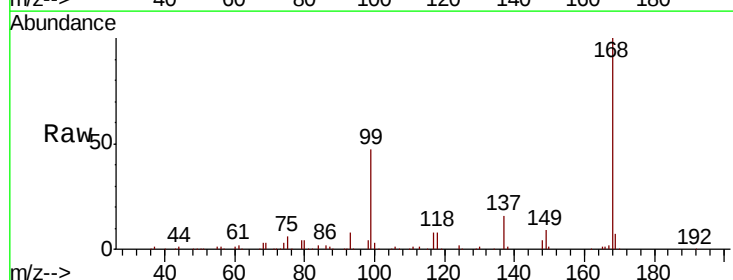
Tgt Ion: 75 Resp: 44595

Ion Ratio Lower Upper

75 100

110 3.0 18.9 56.5#

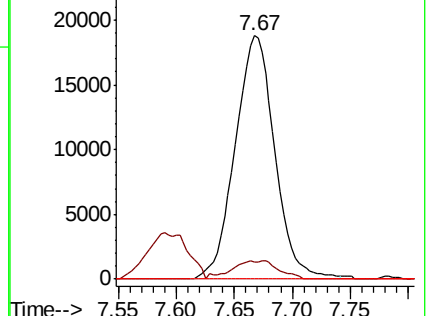
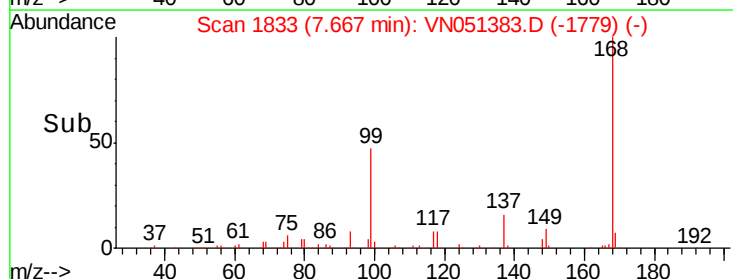
77 0.0 25.4 38.2#

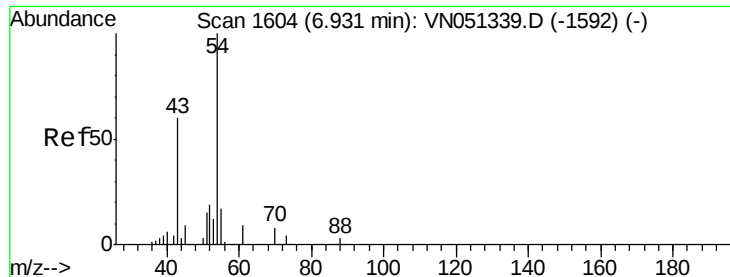


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 0.714 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. -0.08 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

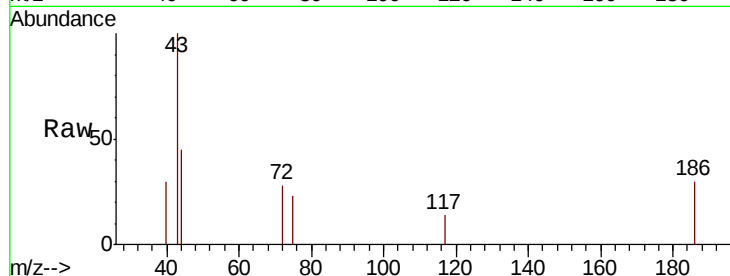
Tot Ion: 43 Resp: 4031

Ion Ratio Lower Upper

43 100

61 0.0 13.6 20.4#

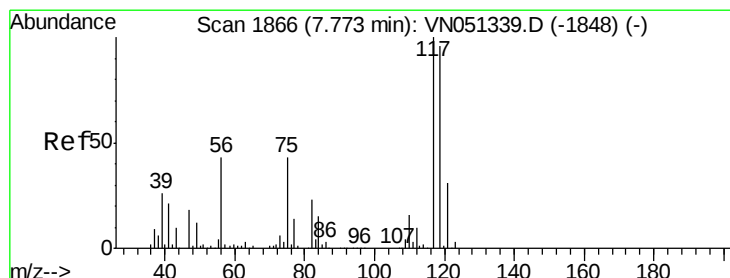
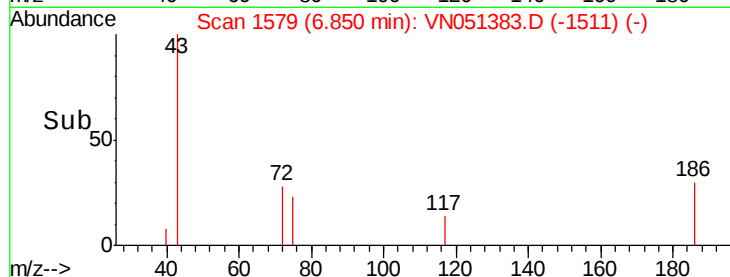
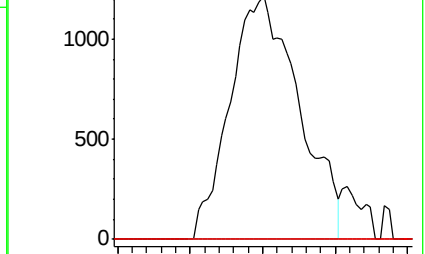
70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051383.D (-1579) (-)

Ion 60.90 (60.60 to 61.60): VN051383.D (-1579) (-)

Ion 70.00 (69.70 to 70.70): VN051383.D (-1579) (-)



#38

Carbon Tetrachloride

Concen: 5.018 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

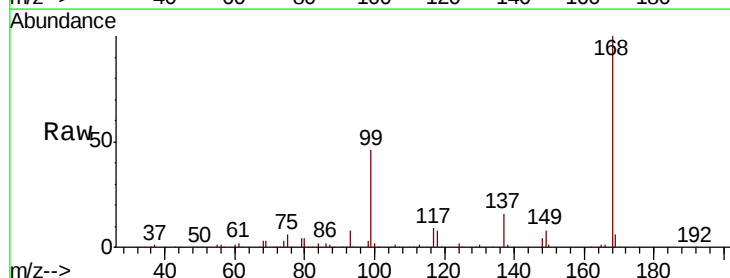
Tgt Ion: 117 Resp: 61932

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

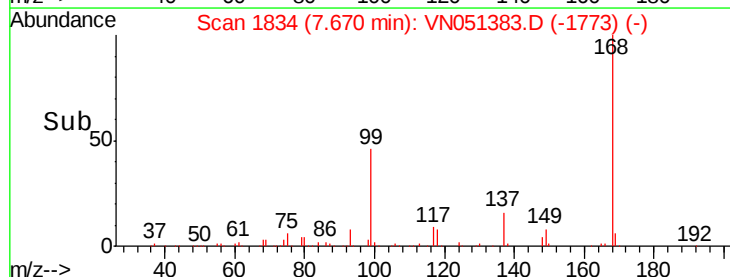
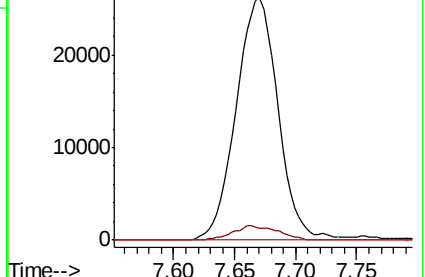
121 0.0 25.0 37.4#

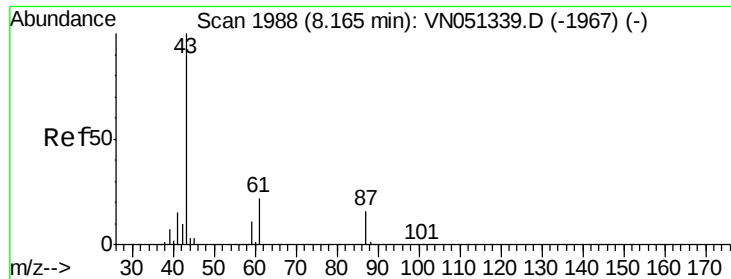


Abundance Ion 116.80 (116.50 to 117.50): VN051383.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN051383.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN051383.D (-1834) (-)





#43

Isopropyl Acetate

Concen: 27.313 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

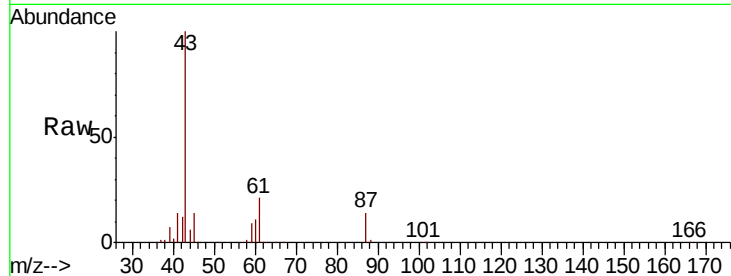
Tot Ion: 43 Resp: 270182

Ion Ratio Lower Upper

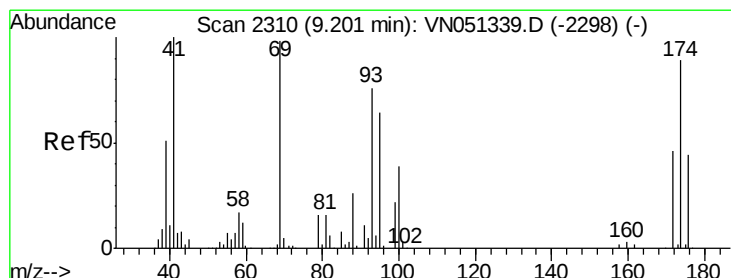
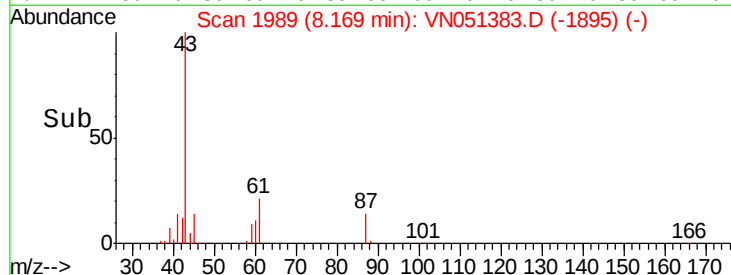
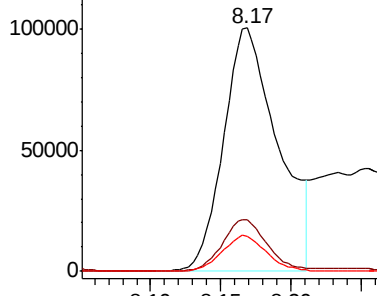
43 100

61 17.6 18.1 27.1#

87 11.9 12.8 19.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.019 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

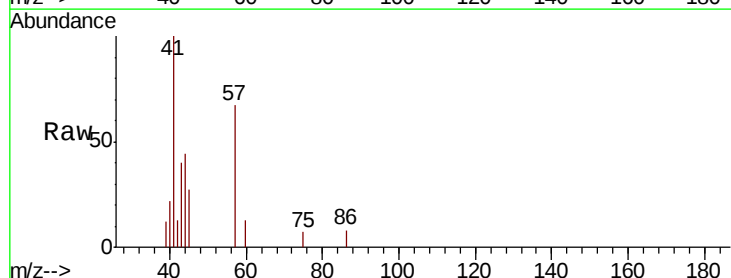
Tgt Ion: 41 Resp: 5137

Ion Ratio Lower Upper

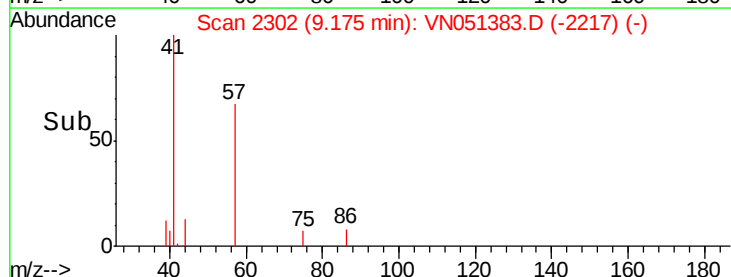
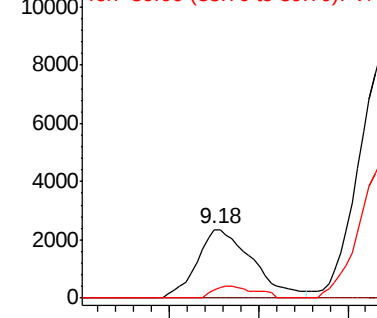
41 100

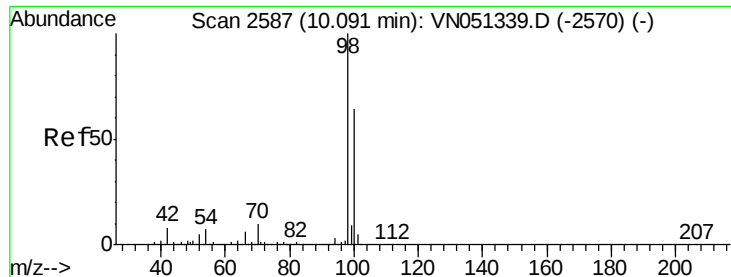
69 0.0 79.4 119.0#

39 13.1 43.0 64.6#



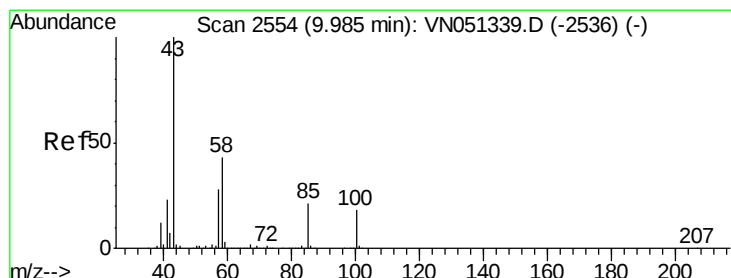
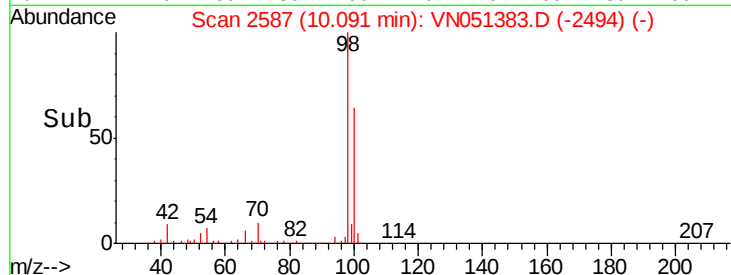
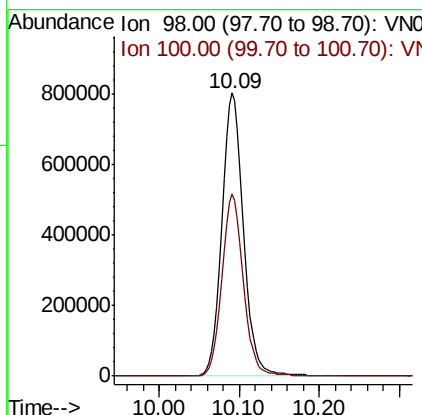
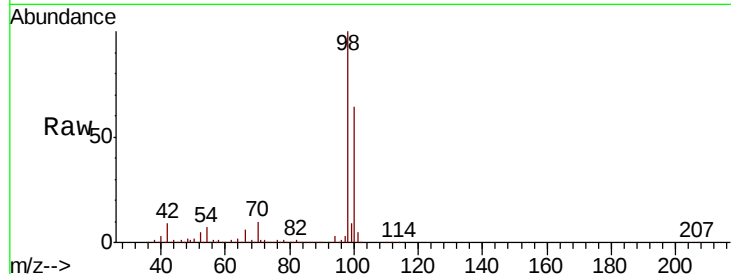
Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





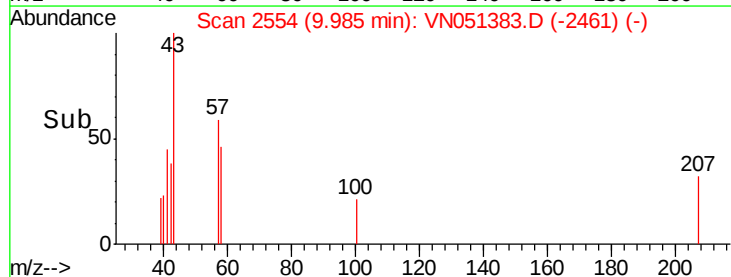
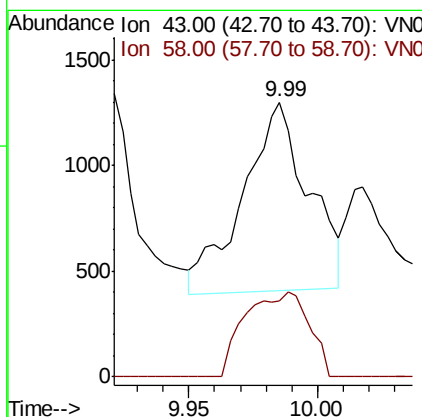
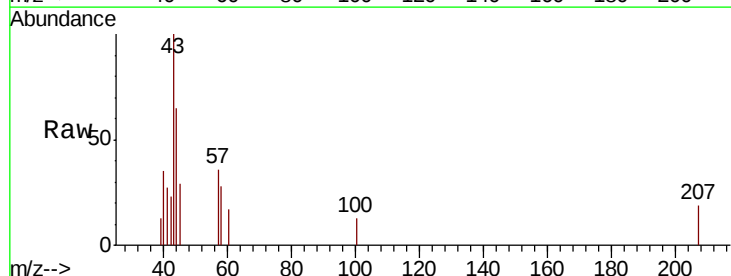
#50
Toluene-d8
Concen: 43.234 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

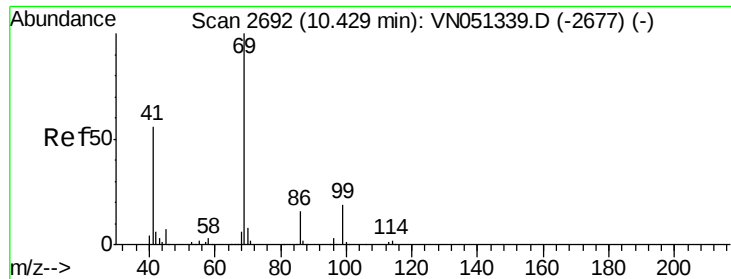
Tot Ion: 98 Resp: 1498168
Ion Ratio Lower Upper
98 100
100 63.8 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.296 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

Tgt Ion: 43 Resp: 1574
Ion Ratio Lower Upper
43 100
58 44.0 34.2 51.4





#56

Ethyl methacrylate

Concen: 1.587 ug/l

RT: 10.30 min Scan# 2651

Delta R.T. -0.13 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

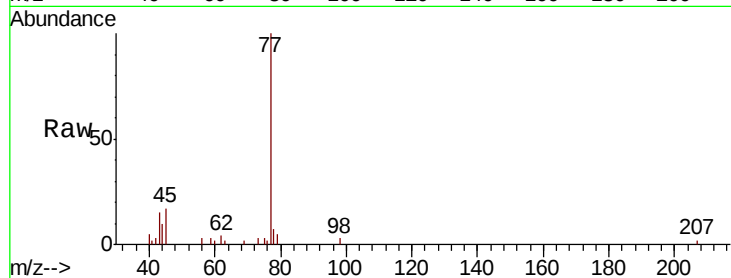
Tot Ion: 69 Resp: 102

Ion Ratio Lower Upper

69 100

41 700.0 45.1 67.7#

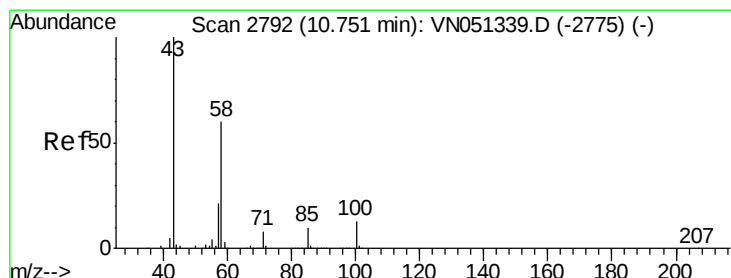
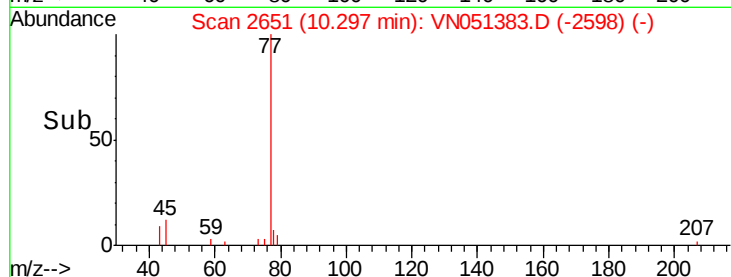
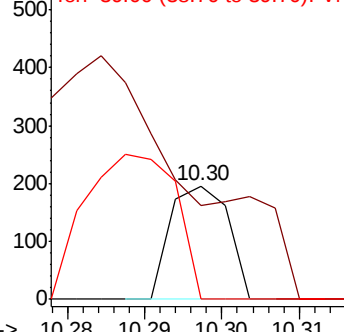
39 200.0 23.4 35.2#



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: 3.704 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051383.D

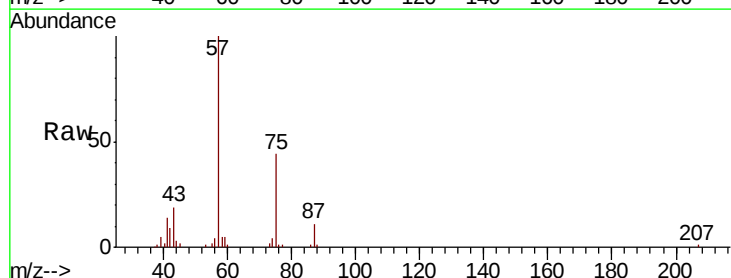
Acq: 21 Sep 2018 21:05

Tgt Ion: 43 Resp: 13286

Ion Ratio Lower Upper

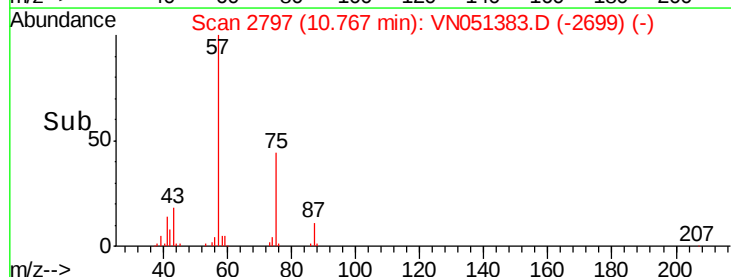
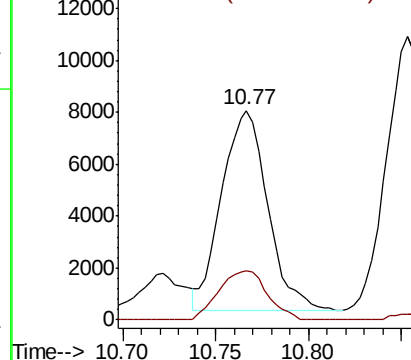
43 100

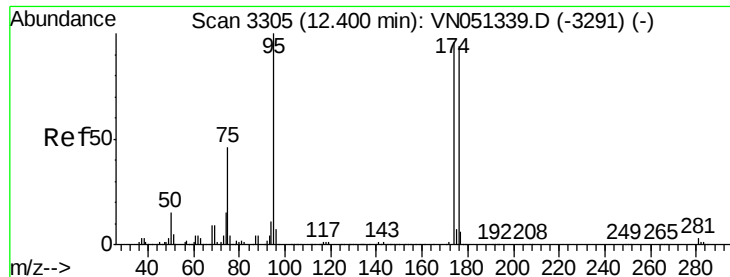
58 25.9 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.252 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

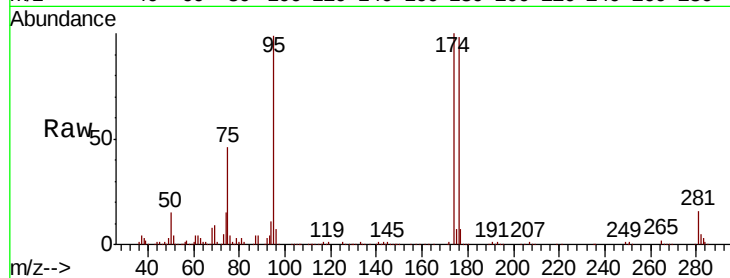
Tot Ion: 95 Resp: 408691

Ion Ratio Lower Upper

95 100

174 98.2 0.0 194.6

176 95.9 0.0 189.6

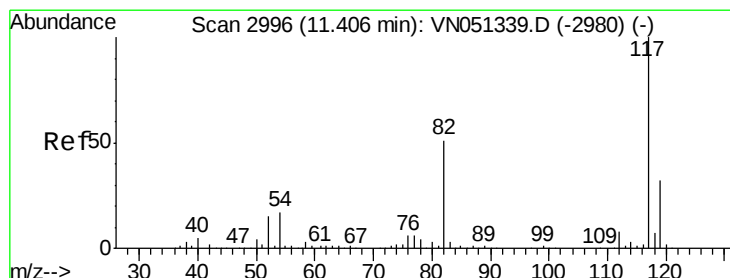
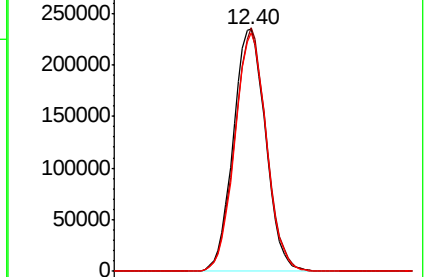
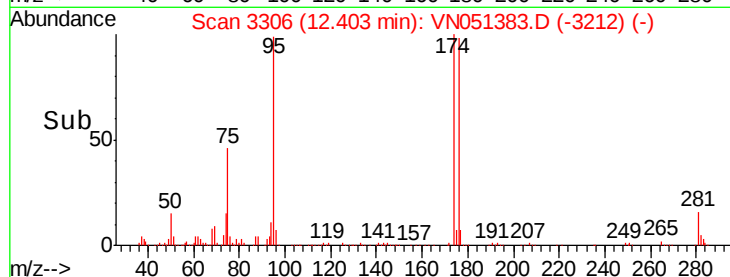


Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

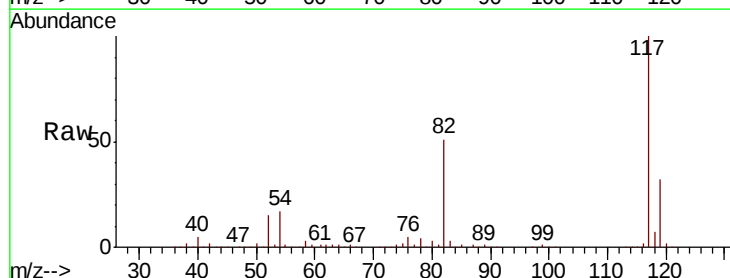
Tgt Ion: 117 Resp: 936537

Ion Ratio Lower Upper

117 100

82 51.3 40.7 61.1

119 32.4 25.3 37.9

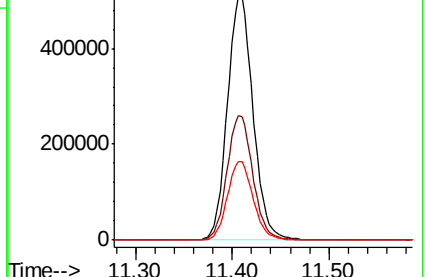
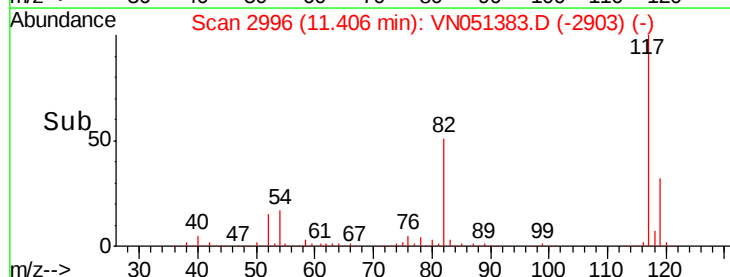


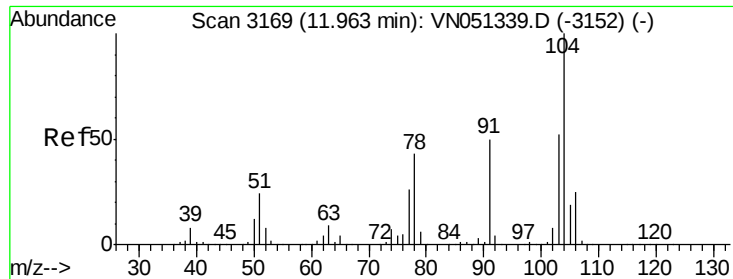
Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)

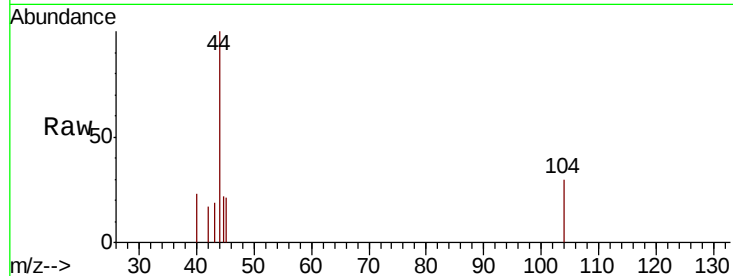
11.41



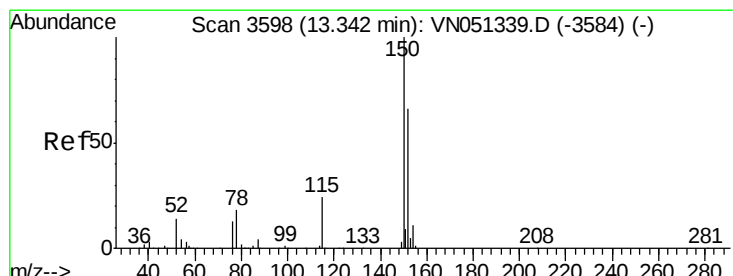
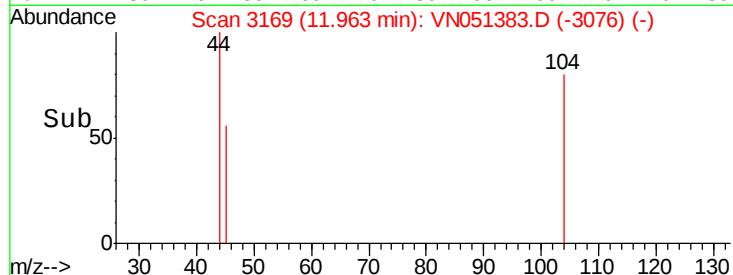
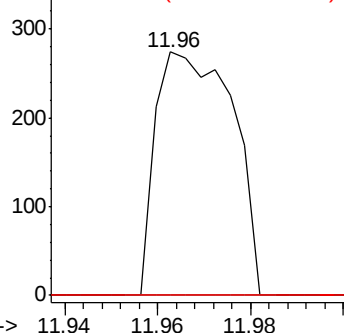


#70
Stvrene
Concen: 0.907 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

Tot Ion:104 Resp: 318
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 0.0 44.3 66.5#

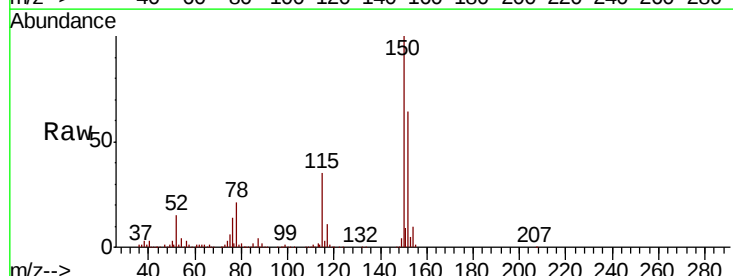


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V

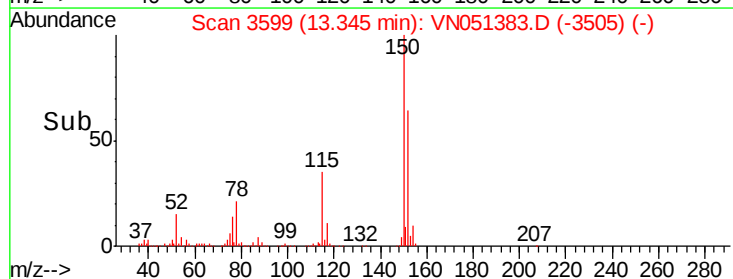
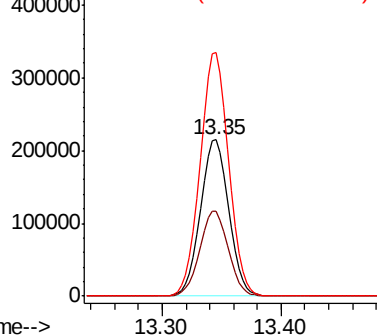


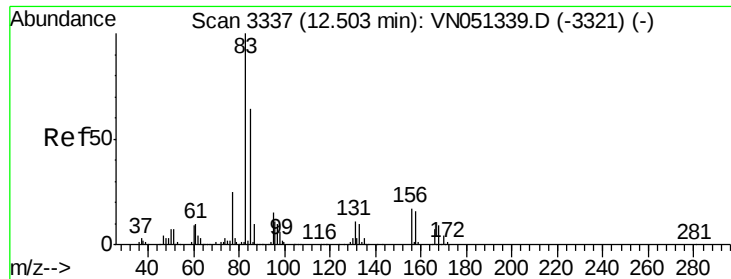
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

Tgt Ion:152 Resp: 355035
Ion Ratio Lower Upper
152 100
115 54.6 26.9 80.7
150 156.6 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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

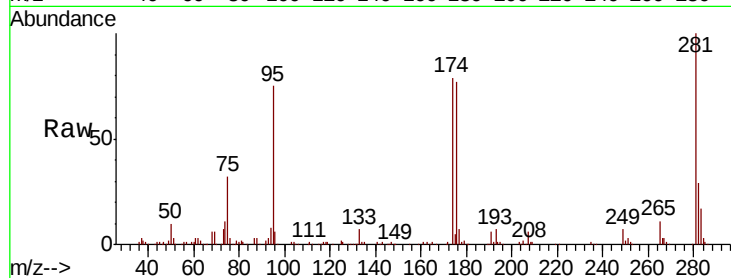
RT: 12.42 min Scan# 3311

Delta R.T. -0.08 min

Lab File: VN051383.D

Acq: 21 Sep 2018 21:05

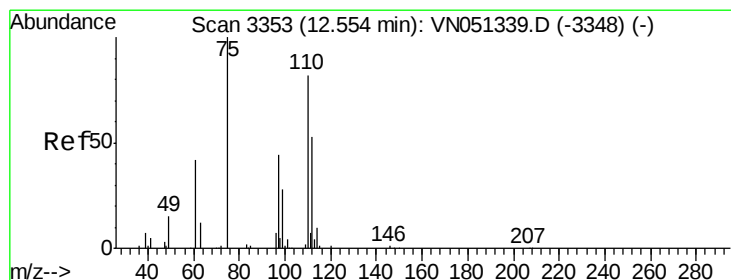
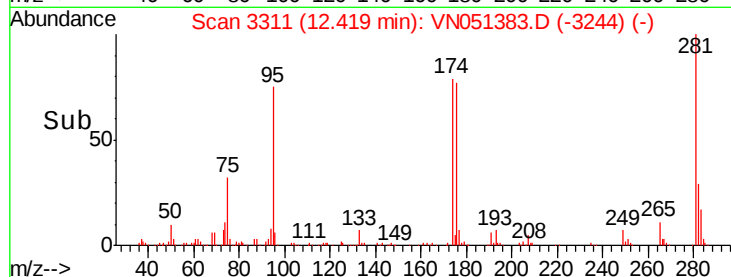
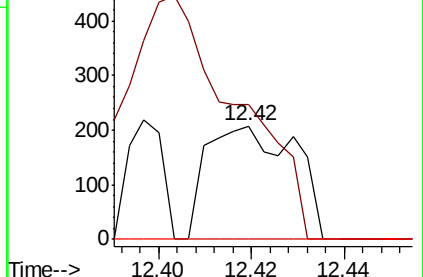
Tot Ion:	83	Resp:	274
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.7#
85	0.0	32.3	96.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 39.090 ug/l

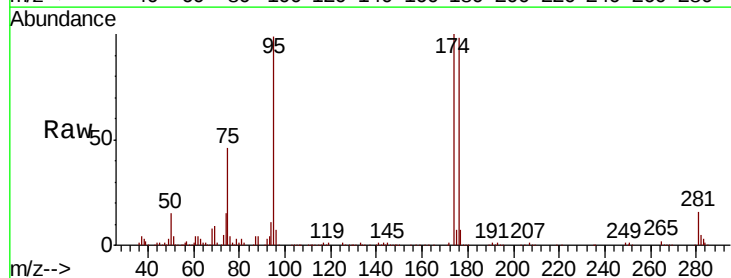
RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051383.D

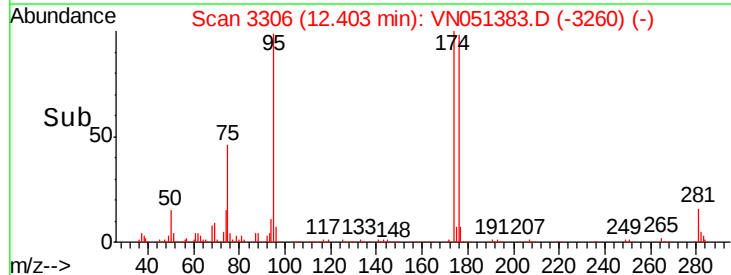
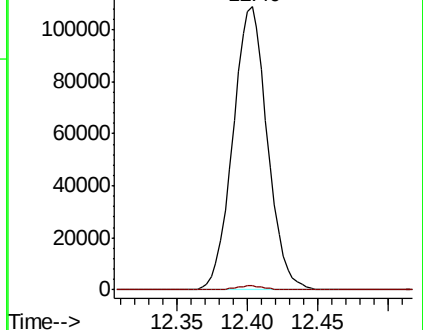
Acq: 21 Sep 2018 21:05

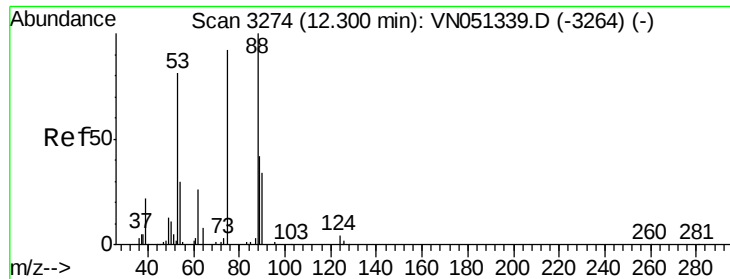
Tgt Ion:	75	Resp:	185902
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

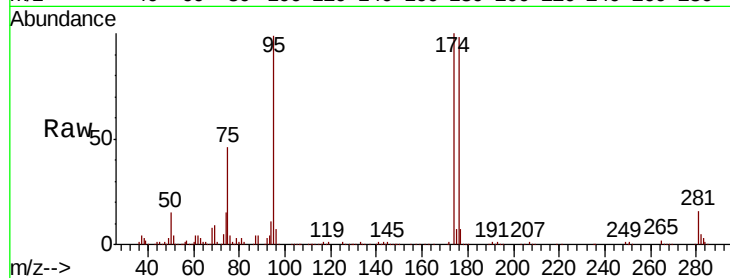
Ion 77.00 (76.70 to 77.70): VN0





#81
trans-1,4-Dichloro-2-butene
Concen: 117.395 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

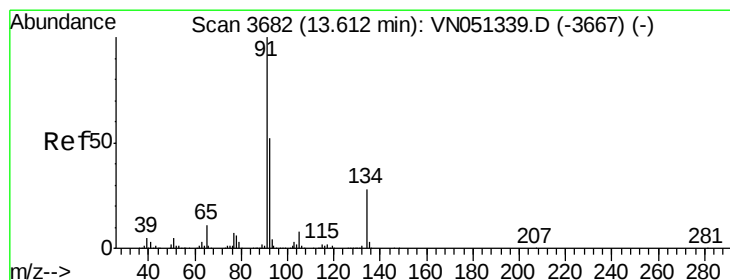
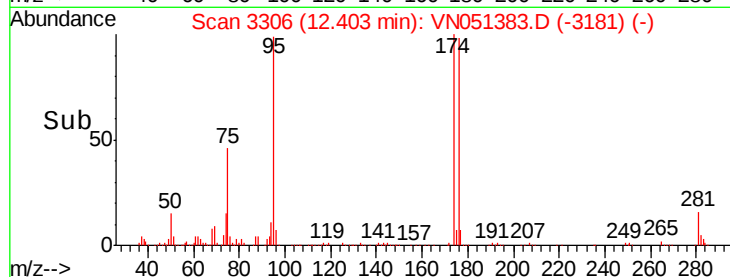
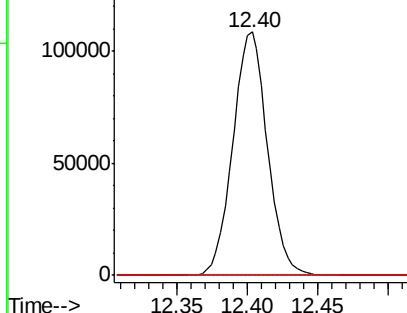
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.2	69.9	104.9#
89	0.0	37.9	56.9#



Abundance Ion 74.90 (74.60 to 75.60): VN051383.D (-3306) (-)

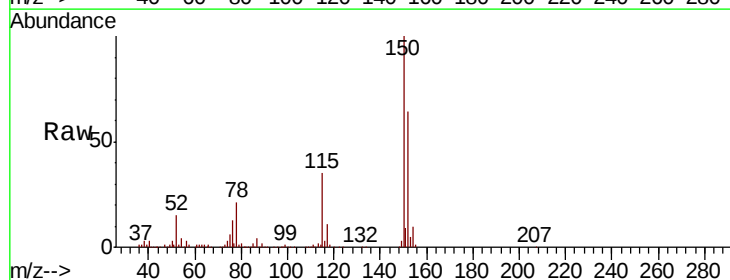
Ion 53.00 (52.70 to 53.70): VN051383.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN051383.D (-3306) (-)



#89
n-Butylbenzene
Concen: 1.464 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.27 min
Lab File: VN051383.D
Acq: 21 Sep 2018 21:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	18.2	14.1	42.4



Abundance Ion 91.00 (90.70 to 91.70): VN051383.D (-3598) (-)

Ion 92.00 (91.70 to 92.70): VN051383.D (-3598) (-)

Ion 134.00 (133.70 to 134.70): VN051383.D (-3598) (-)

