

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011119\
 Data File : VN053364.D
 Acq On : 11 Jan 2019 14:16
 Operator : JC/SP
 Sample : PB116316ZHE#07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Quant Time: Jan 12 00:40:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1008714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1573872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1480215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	643815	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	515961	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
35) Dibromofluoromethane	7.59	113	450155	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
50) Toluene-d8	10.09	98	1957270	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	676025	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	

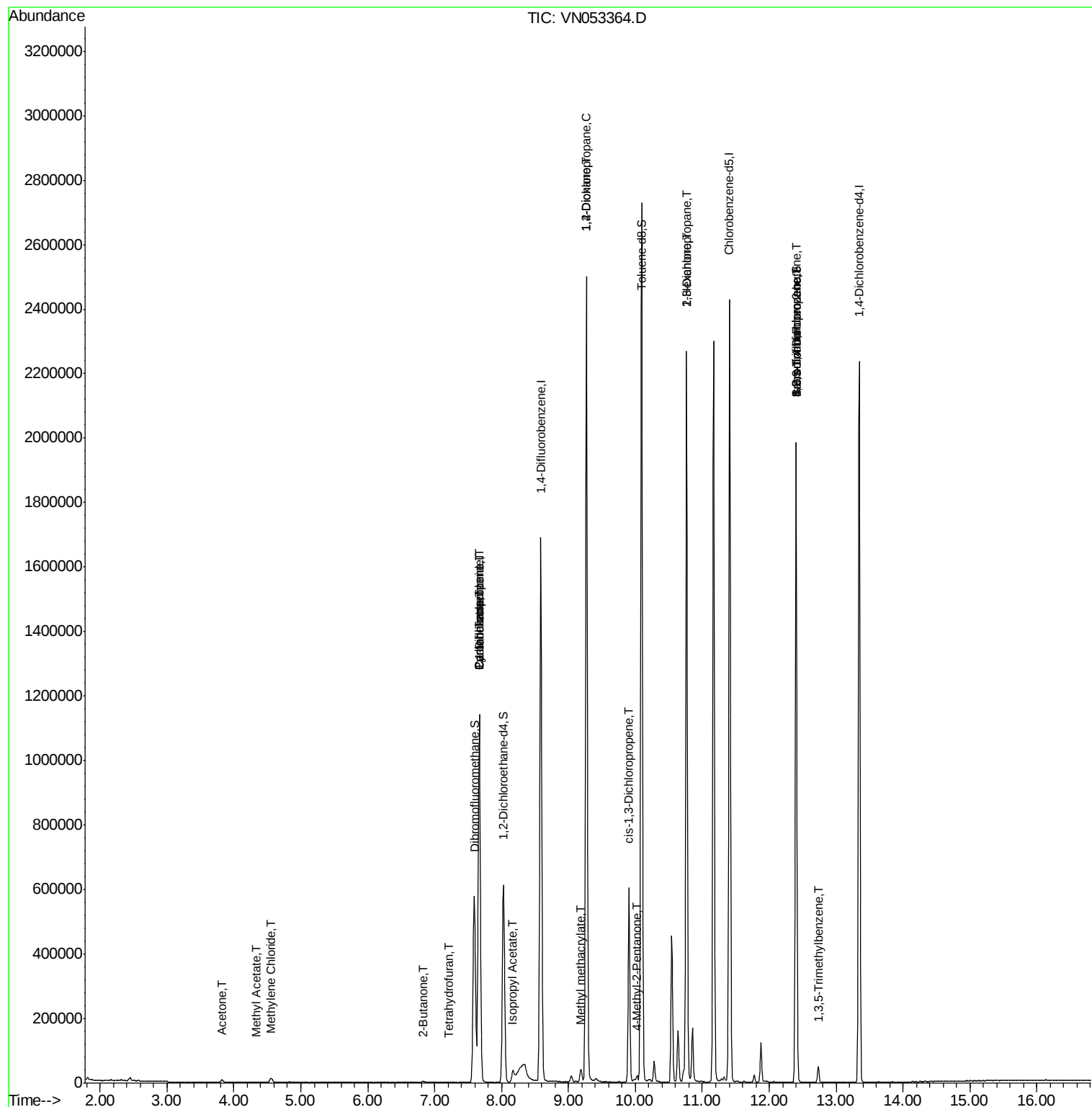
Target Compounds

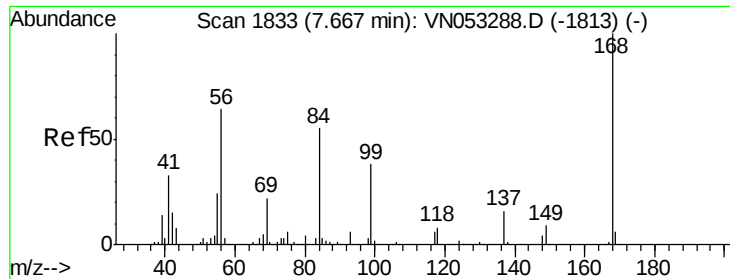
					Qvalue
16) Acetone	3.82	43	15518	3.944	ug/l 100
18) Methyl Acetate	4.33	43	4117	0.433	ug/l # 75
20) Methylene Chloride	4.55	84	11994	1.064	ug/l # 90
25) 2-Butanone	6.83	43	1328	0.308	ug/l 98
29) Tetrahydrofuran	7.21	42	569	0.200	ug/l # 53
31) Cyclohexane	7.67	56	15660	0.682	ug/l # 1
36) 1,1-Dichloropropene	7.67	75	64911	4.418	ug/l # 48
38) Carbon Tetrachloride	7.67	117	85476	6.303	ug/l # 17
43) Isopropyl Acetate	8.17	43	53241	2.828	ug/l # 79
45) 1,2-Dichloropropane	9.27	63	3308	0.281	ug/l # 43
48) Methyl methacrylate	9.18	41	13071	1.528	ug/l # 12
49) 1,4-Dioxane	9.26	88	195	2.140	ug/l # 1
51) 4-Methyl-2-Pentanone	10.02	43	16856	1.780	ug/l # 34
54) cis-1,3-Dichloropropene	9.90	75	111804	6.612	ug/l # 62
57) 1,3-Dichloropropane	10.76	76	24155	1.427	ug/l # 42
59) 2-Hexanone	10.76	43	318987	49.172	ug/l # 50
71) Bromoform	12.40	173	4548	0.572	ug/l # 1
76) 1,2,3-Trichloropropane	12.40	75	320505	34.131	ug/l # 100
80) 1,3,5-Trimethylbenzene	12.73	105	26751	0.693	ug/l 97
81) trans-1,4-Dichloro-2-buten	12.40	75	320505	100.420	ug/l # 14

(#) = 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: VN053364.D

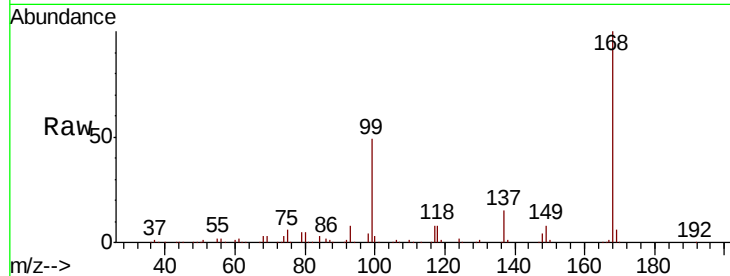
Acq: 11 Jan 2019 14:16

Tgt Ion: 168 Resp: 1008714

Ion Ratio Lower Upper

168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053288.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053288.D (-1813) (-)

7.67

400000

300000

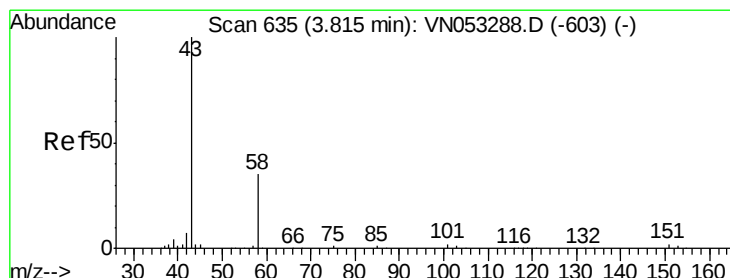
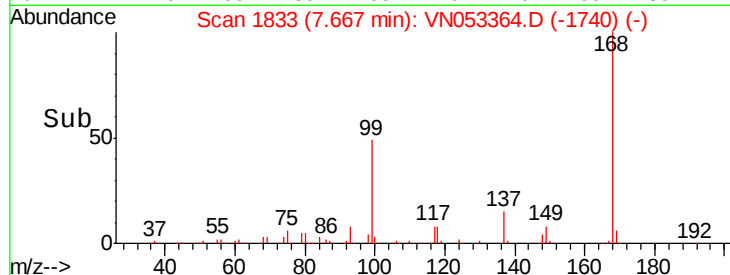
200000

100000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 3.944 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053364.D

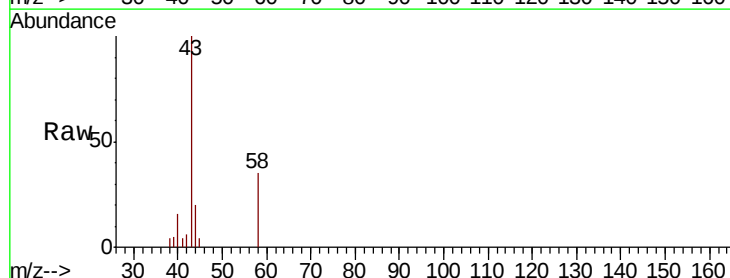
Acq: 11 Jan 2019 14:16

Tgt Ion: 43 Resp: 15518

Ion Ratio Lower Upper

43 100

58 34.7 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN053288.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053288.D (-603) (-)

3.82

6000

5000

4000

3000

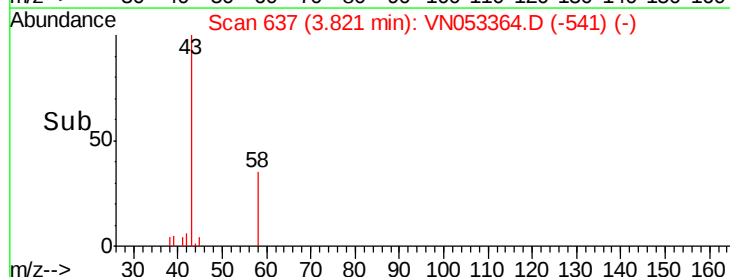
2000

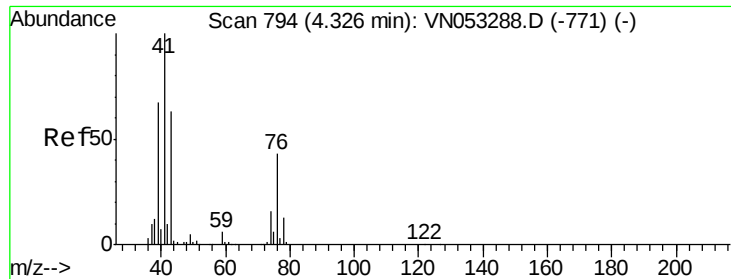
1000

0

Time-->

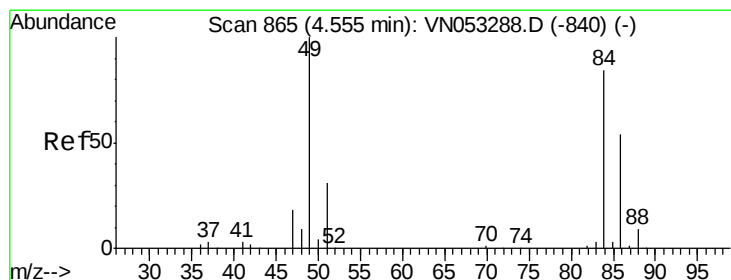
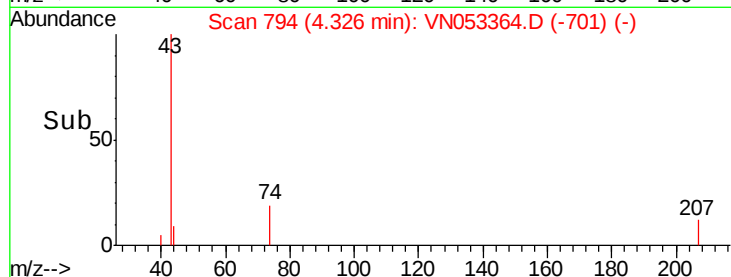
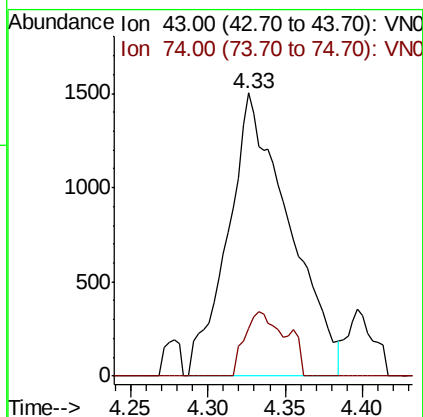
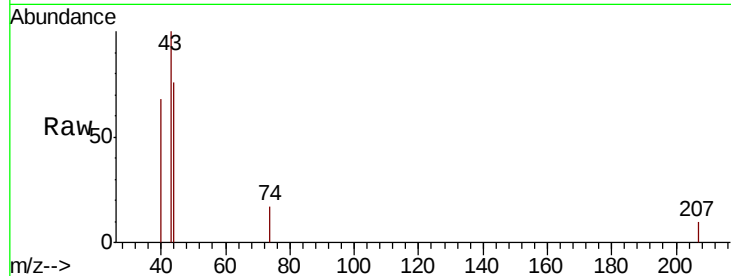
3.70 3.75 3.80 3.85 3.90





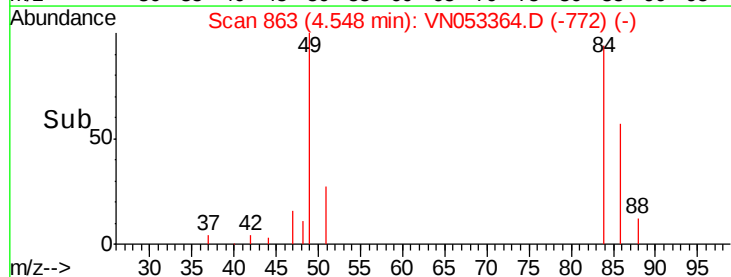
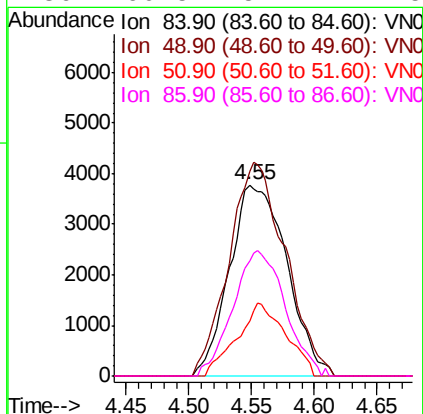
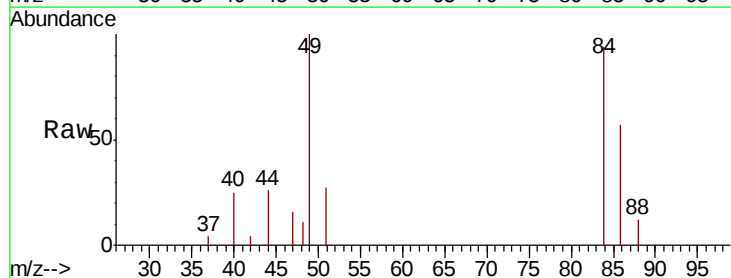
#18
Methyl Acetate
Concen: 0.433 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

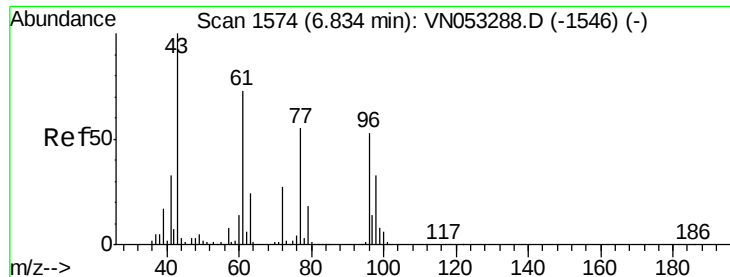
Tgt Ion: 43 Resp: 4117
Ion Ratio Lower Upper
43 100
74 12.1 19.8 29.8#



#20
Methylene Chloride
Concen: 1.064 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.01 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion: 84 Resp: 11994
Ion Ratio Lower Upper
84 100
49 106.9 95.3 142.9
51 29.0 29.0 43.6#
86 60.5 51.7 77.5





#25

2-Butanone

Concen: 0.308 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053364.D

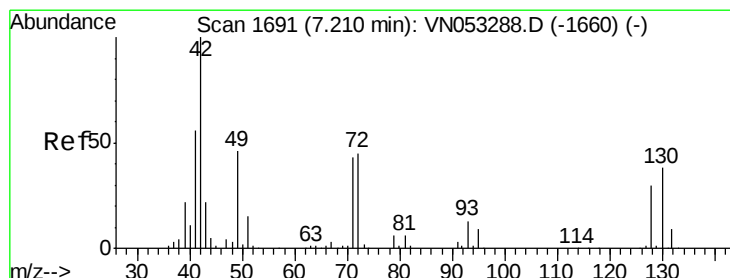
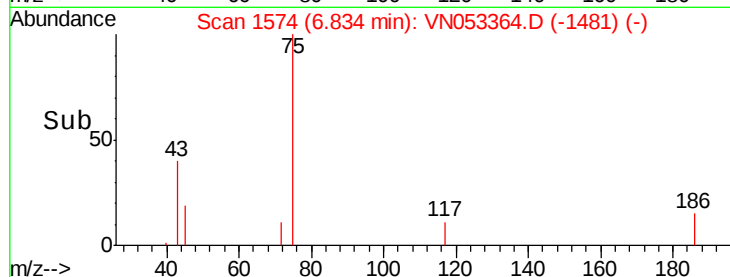
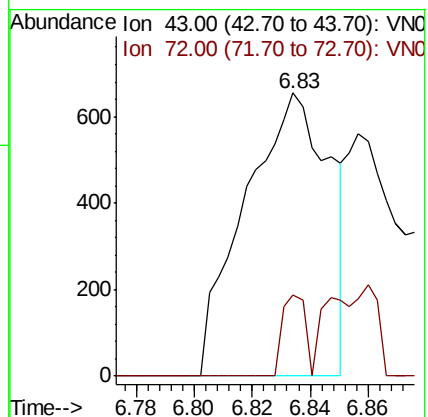
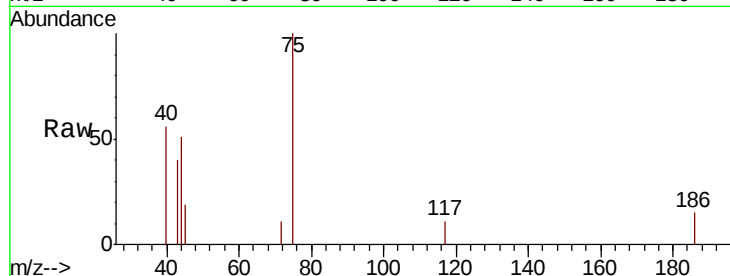
Acq: 11 Jan 2019 14:16

Tgt Ion: 43 Resp: 1328

Ion Ratio Lower Upper

43 100

72 28.4 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.200 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

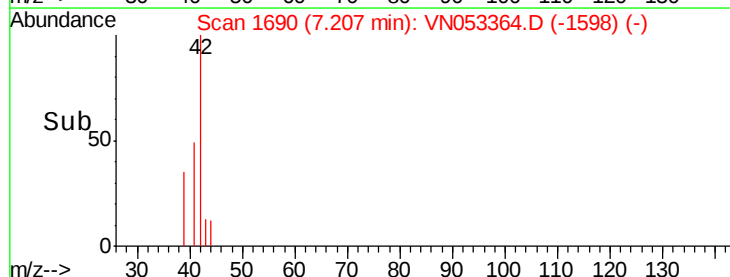
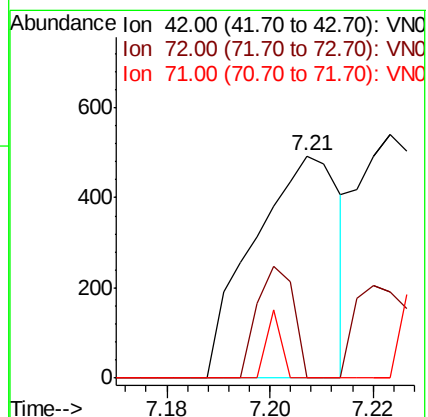
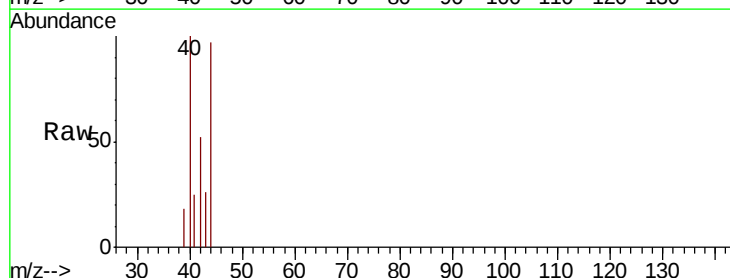
Tgt Ion: 42 Resp: 569

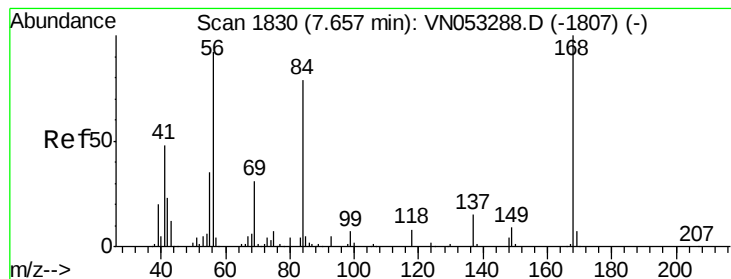
Ion Ratio Lower Upper

42 100

72 21.3 35.6 53.4#

71 5.1 33.8 50.8#





#31

Cyclohexane

Concen: 0.682 ug/l

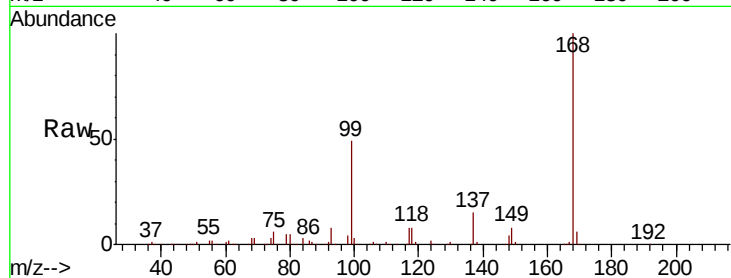
RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

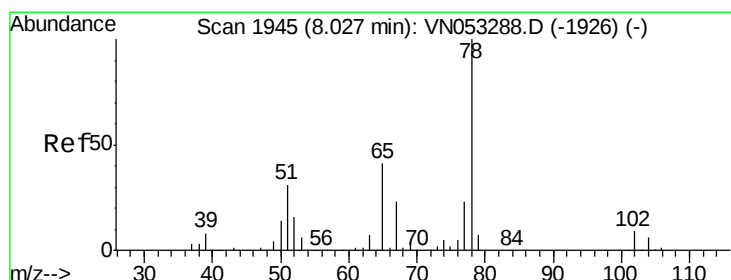
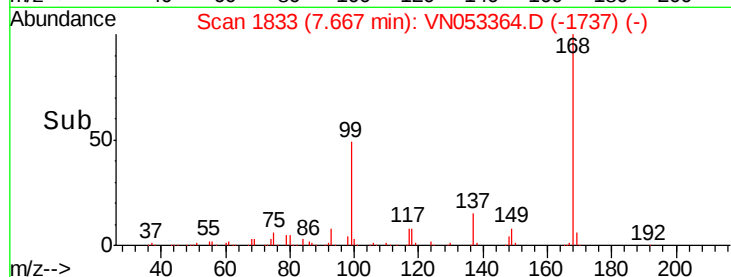
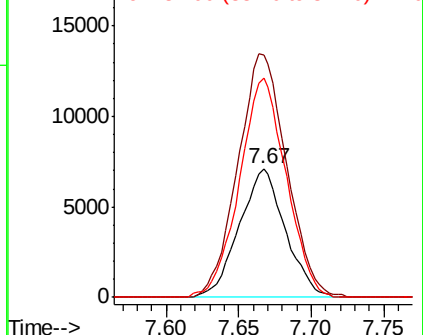
Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

Tgt Ion:	56	Resp:	15660
Ion	Ratio	Lower	Upper
56	100		
69	188.9	26.7	40.1#
84	170.8	68.2	102.4#



Abundance Ion 56.00 (55.70 to 56.70): VN053364.D (-1807) (-)



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

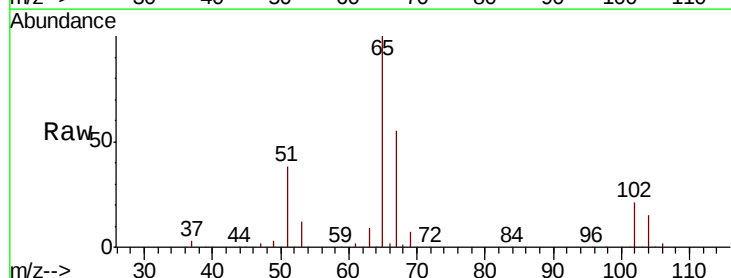
RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

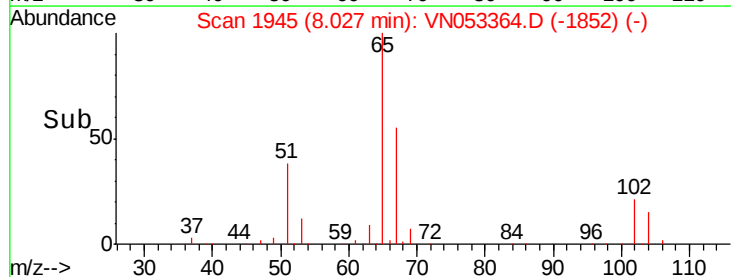
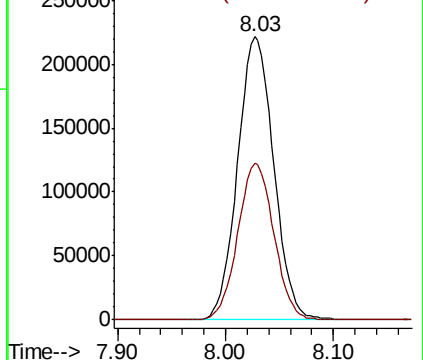
Lab File: VN053364.D

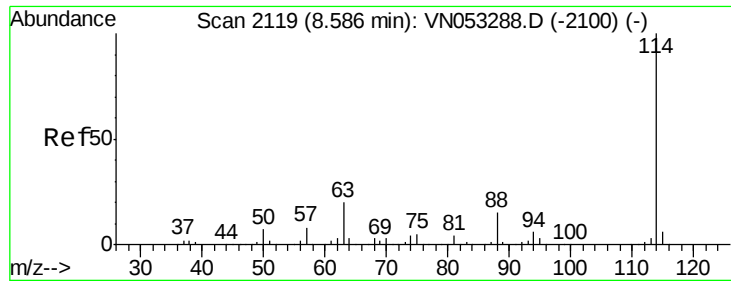
Acq: 11 Jan 2019 14:16

Tgt Ion:	65	Resp:	515961
Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	111.0



Abundance Ion 64.90 (64.60 to 65.60): VN053364.D (-1852) (-)

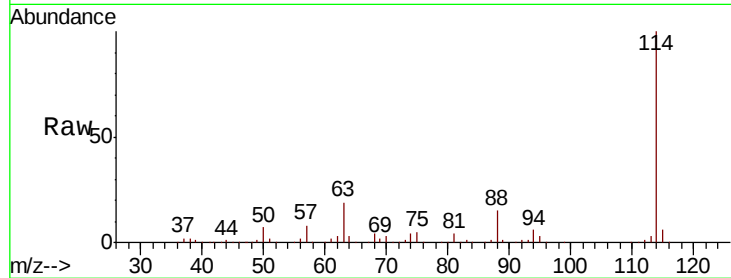




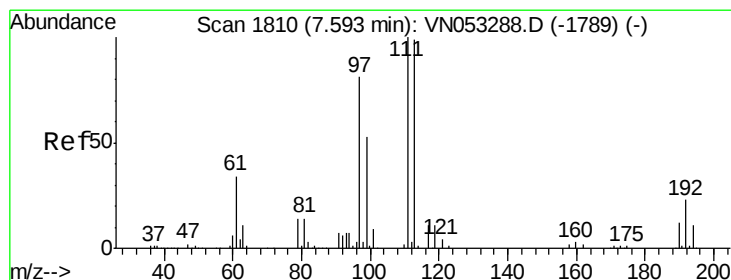
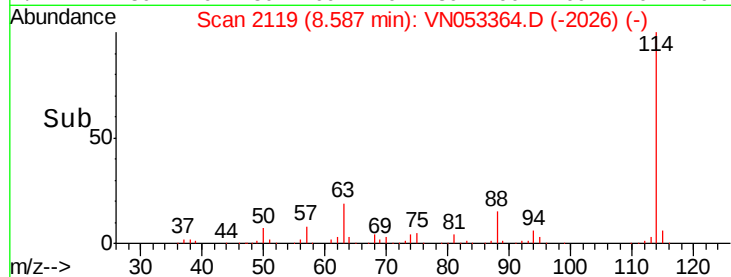
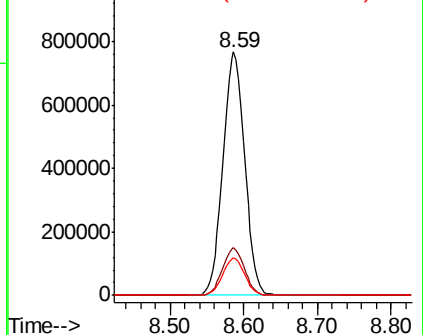
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053364.D
 Acq: 11 Jan 2019 14:16

Tgt Ion:114 Resp: 1573872

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.0
88	15.4	0.0	30.8



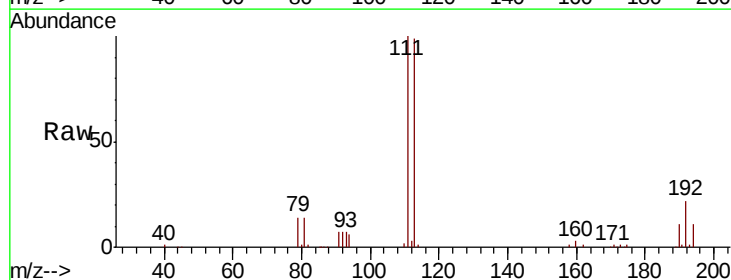
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



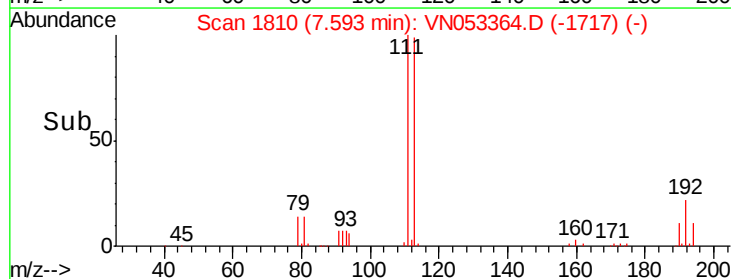
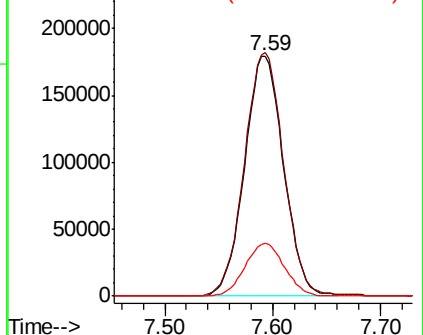
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053364.D
 Acq: 11 Jan 2019 14:16

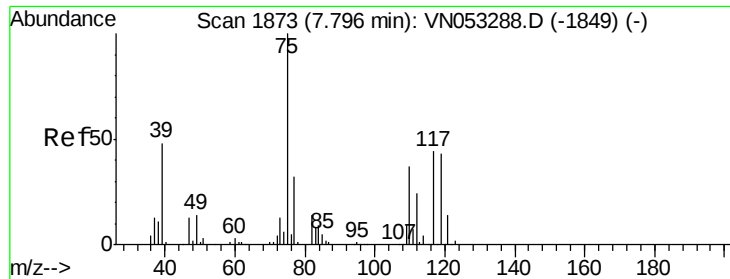
Tgt Ion:113 Resp: 450155

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.2
192	22.2	17.9	26.9



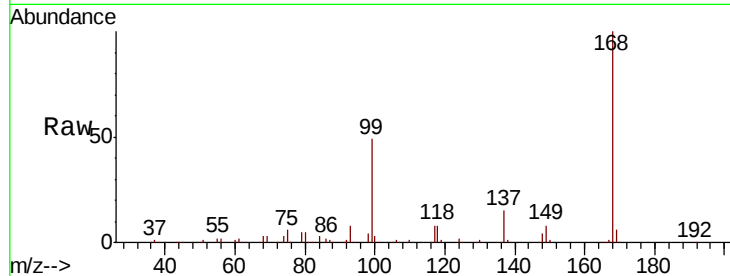
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



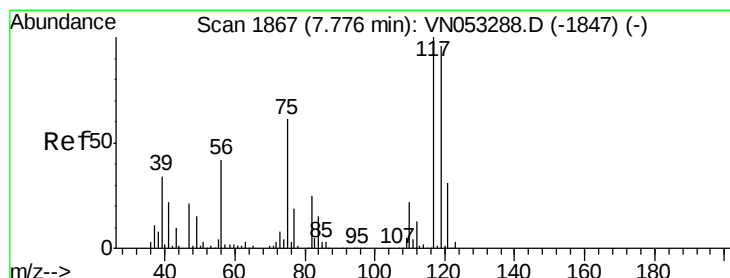
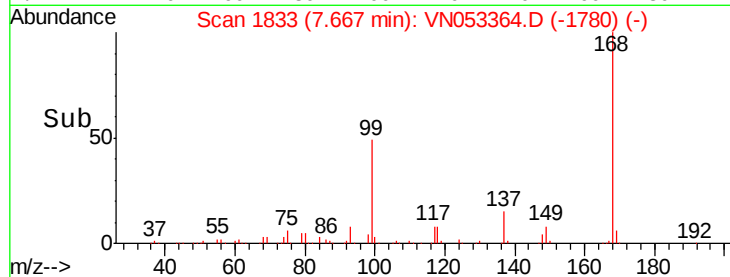
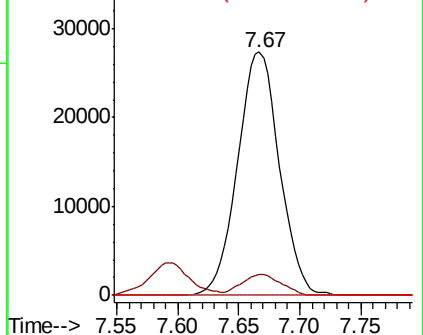


#36
 1,1-Dichloropropene
 Concen: 4.418 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053364.D
 Acq: 11 Jan 2019 14:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.4	55.0#
77	0.0	25.3	37.9#

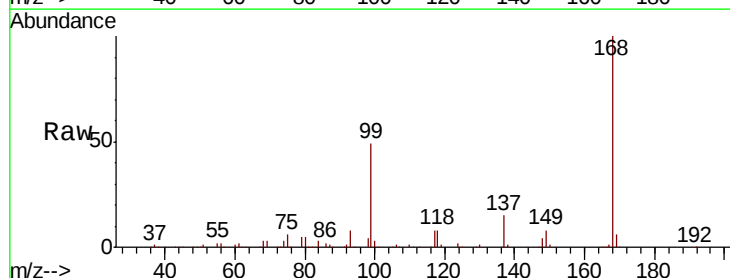


Abundance Ion 74.90 (74.60 to 75.60): VN053364.D (-1780) (-)

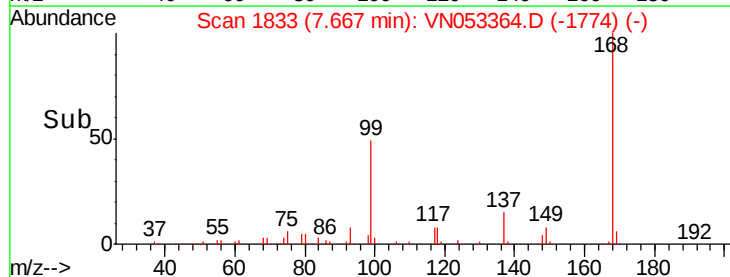
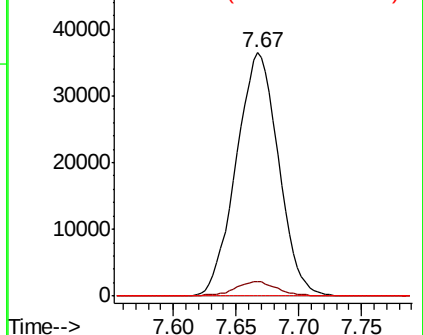


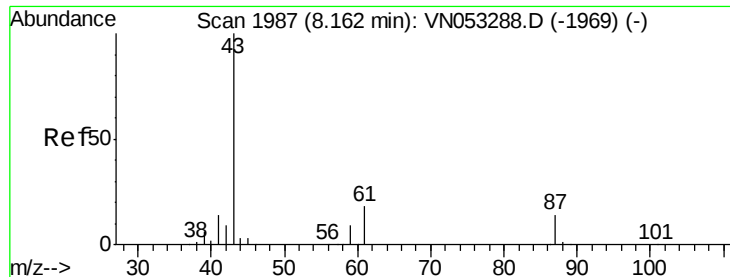
#38
 Carbon Tetrachloride
 Concen: 6.303 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053364.D
 Acq: 11 Jan 2019 14:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.6	115.0#
121	0.0	25.0	37.4#



Abundance Ion 116.80 (116.50 to 117.50): VN053364.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 2.828 ug/l

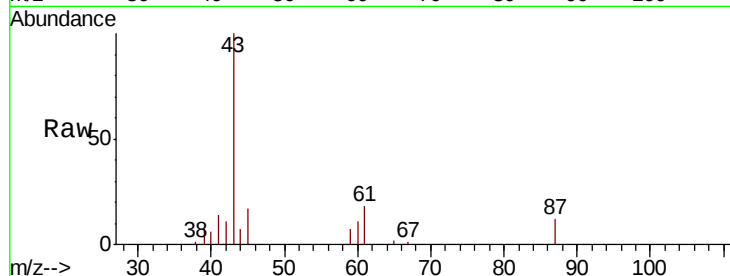
RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

Tgt Ion:	43	Resp:	53241
Ion	Ratio	Lower	Upper
43	100		
61	15.0	23.3	34.9#
87	9.9	10.8	16.2#

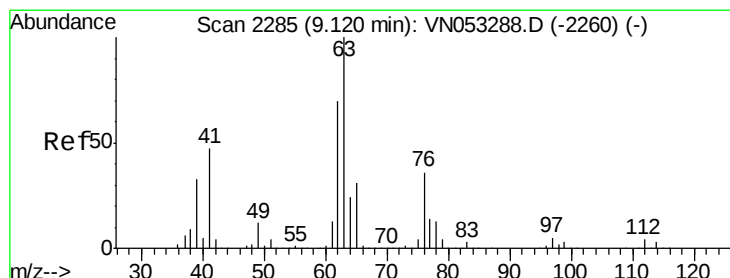
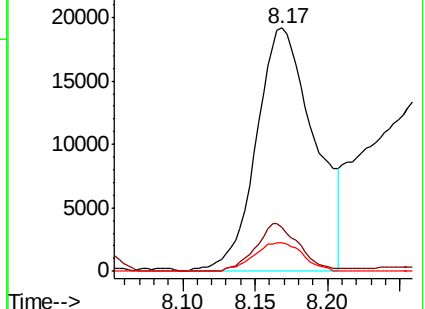
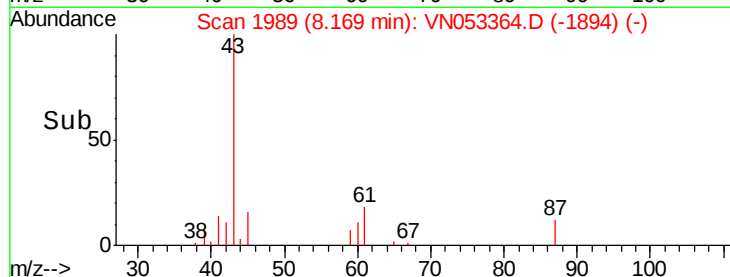


Abundance Ion 43.00 (42.70 to 43.70): VN053288.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN053288.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN053288.D (-1969) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.281 ug/l

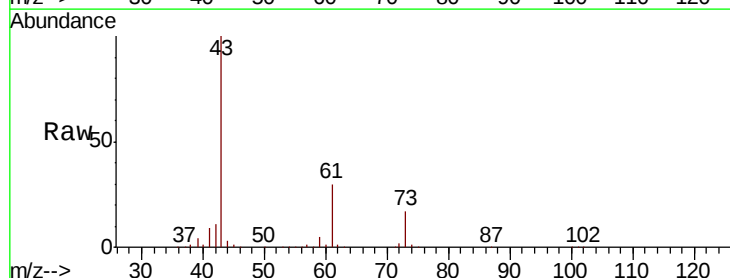
RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

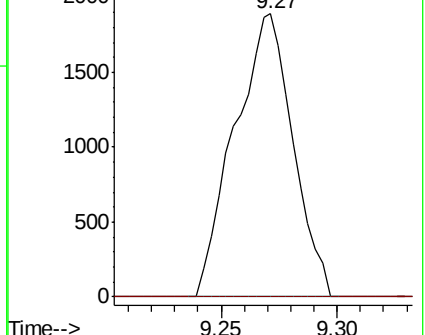
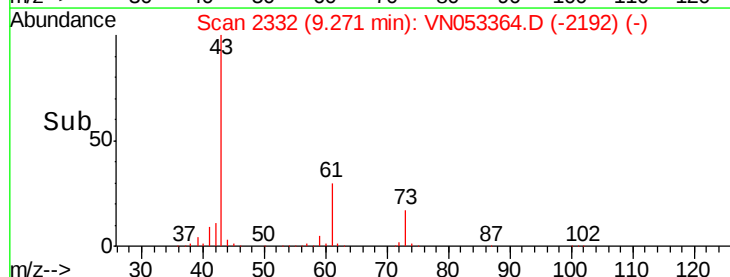
Tgt Ion:	63	Resp:	3308
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.6#

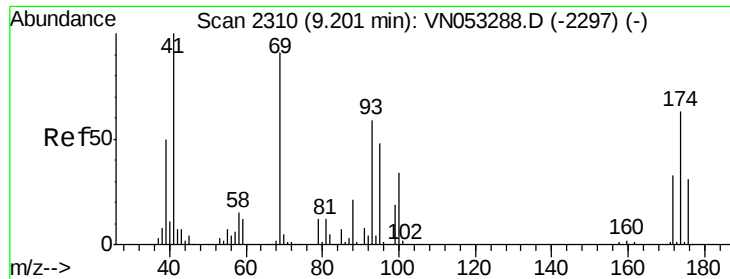


Abundance Ion 62.90 (62.60 to 63.60): VN053288.D (-2260) (-)

Ion 64.90 (64.60 to 65.60): VN053288.D (-2260) (-)

Time-->





#48

Methyl methacrylate

Concen: 1.528 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

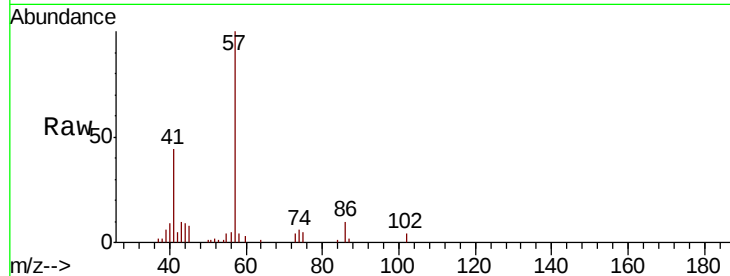
Tgt Ion: 41 Resp: 13071

Ion Ratio Lower Upper

41 100

69 0.0 73.5 110.3#

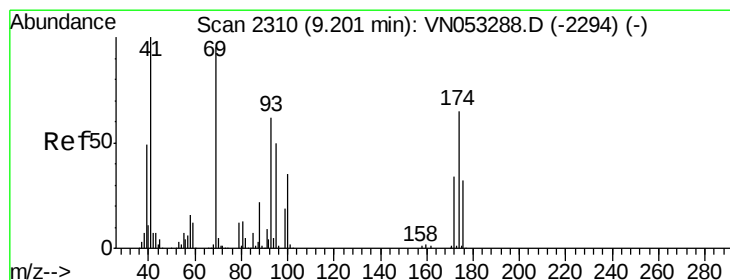
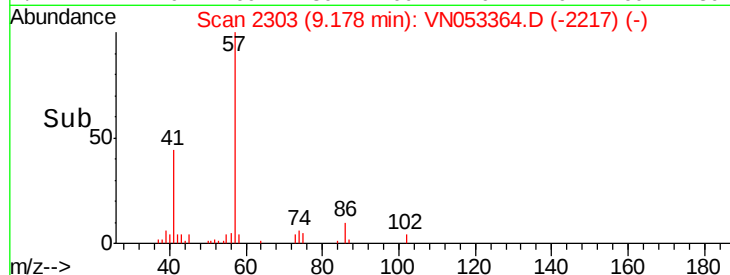
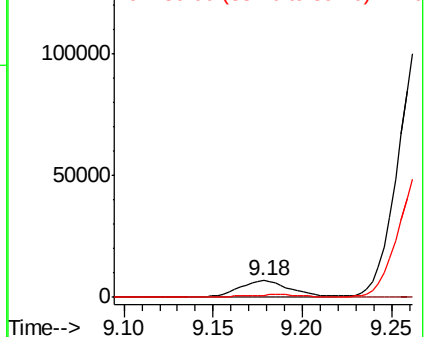
39 0.0 41.6 62.4#



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



#49

1,4-Dioxane

Concen: 2.140 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

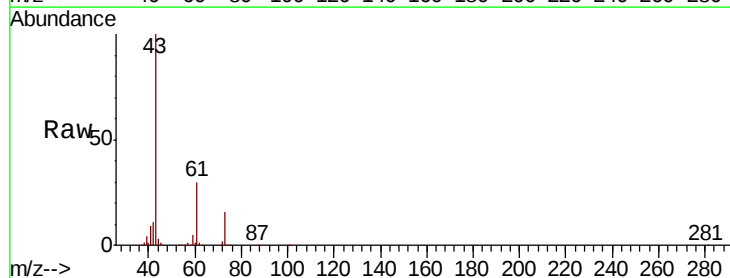
Tgt Ion: 88 Resp: 195

Ion Ratio Lower Upper

88 100

43 1254670.8 26.2 39.4#

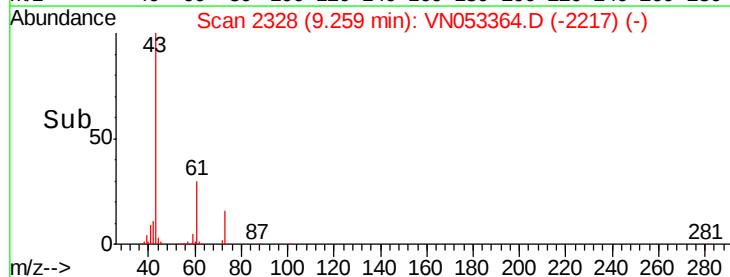
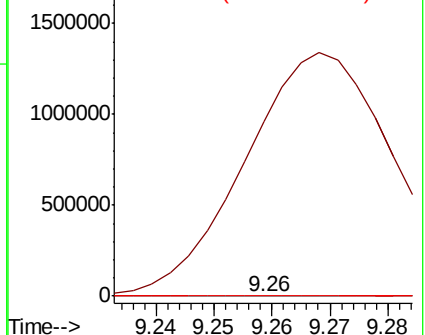
58 5512.8 55.5 83.3#

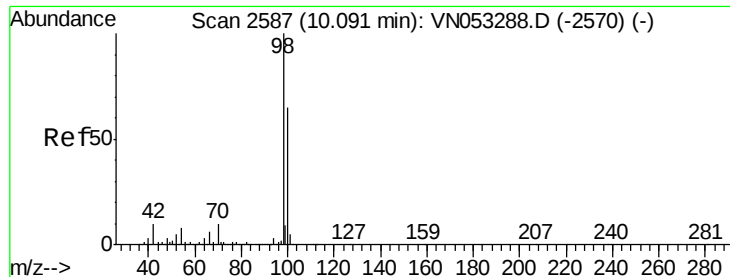


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

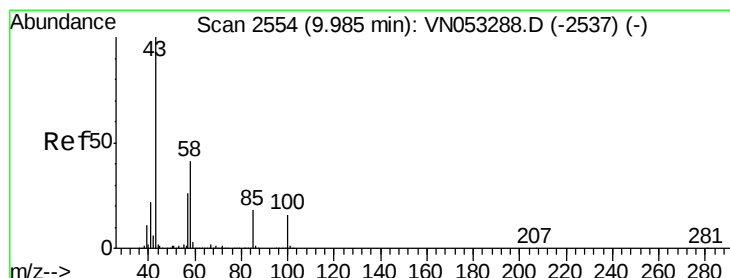
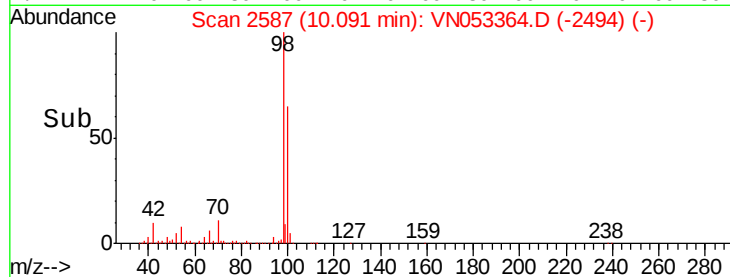
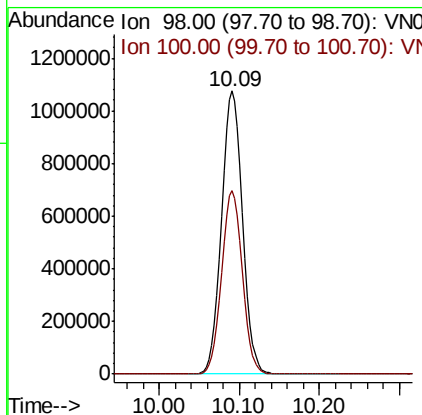
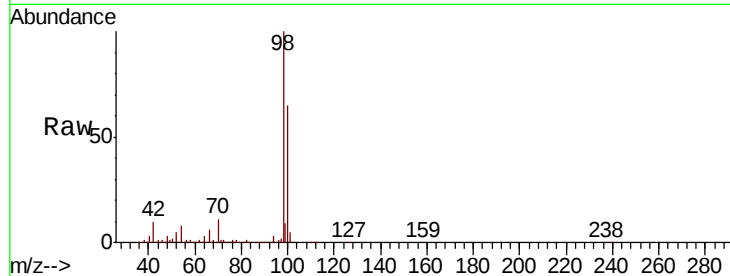
Ion 58.00 (57.70 to 58.70): VN0





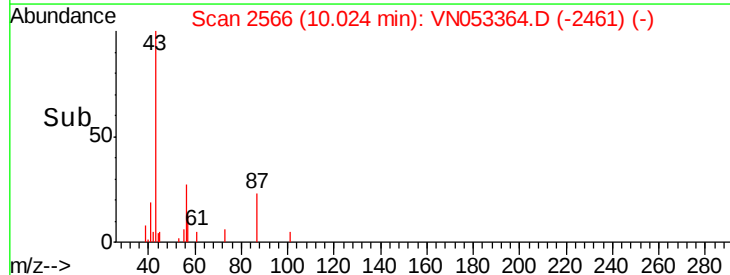
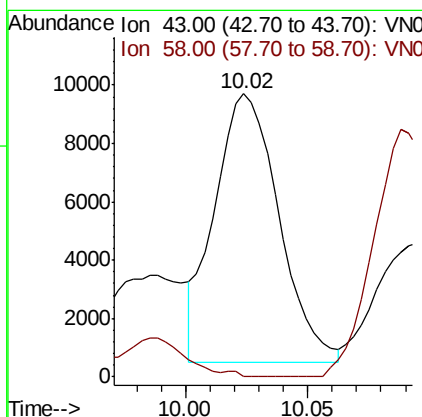
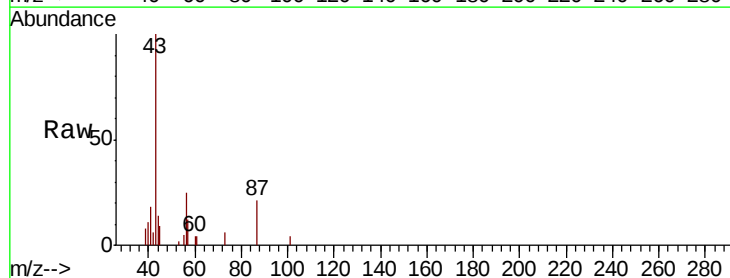
#50
Toluene-d8
Concen: 2.140 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

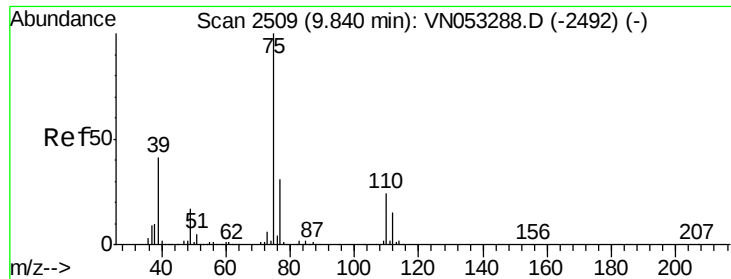
Tgt Ion: 98 Resp: 1957270
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.780 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion: 43 Resp: 16856
Ion Ratio Lower Upper
43 100
58 0.0 32.7 49.1#





#54

cis-1,3-Dichloropropene

Concen: 6.612 ug/l

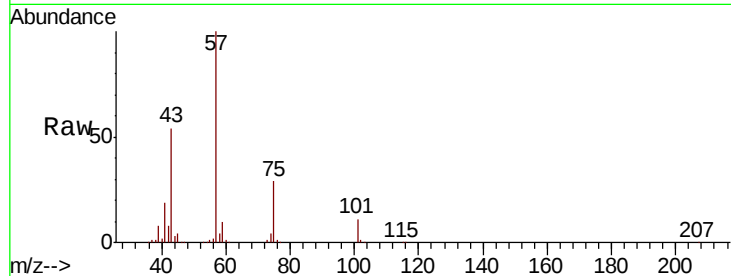
RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

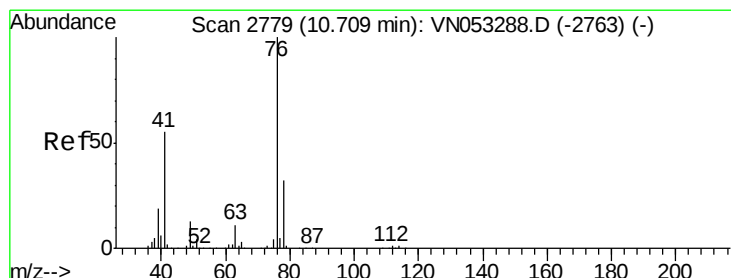
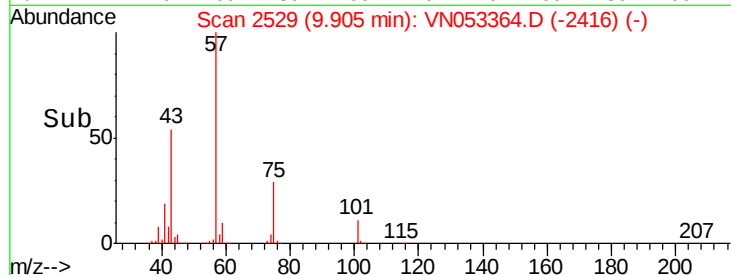
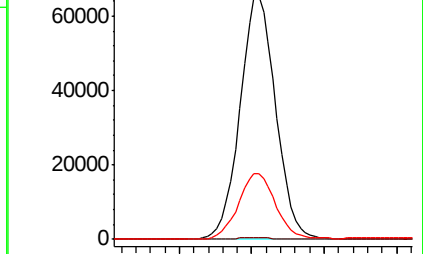
Tgt Ion:	75	Resp:	111804
Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.1	37.7#
39	26.5	33.1	49.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053364.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN053364.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN053364.D (-2416) (-)



#57

1,3-Dichloropropane

Concen: 1.427 ug/l

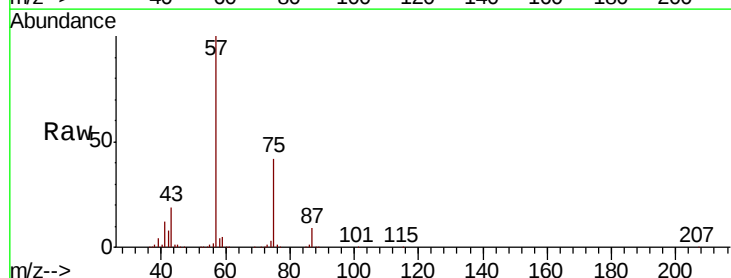
RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053364.D

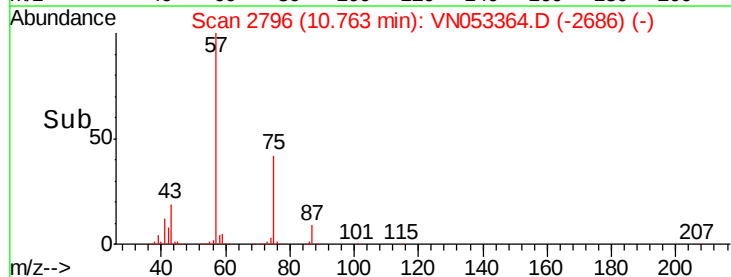
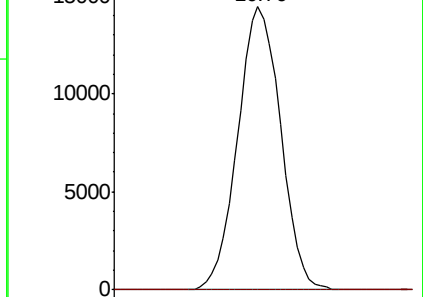
Acq: 11 Jan 2019 14:16

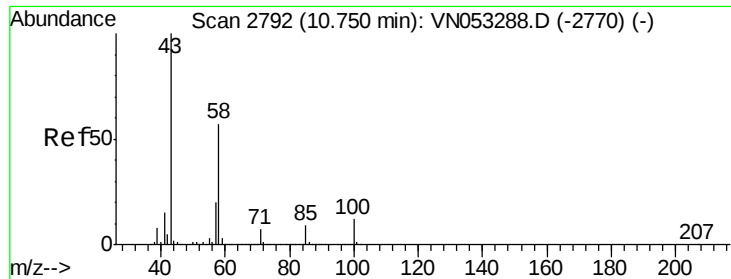
Tgt Ion:	76	Resp:	24155
Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN053364.D (-2686) (-)

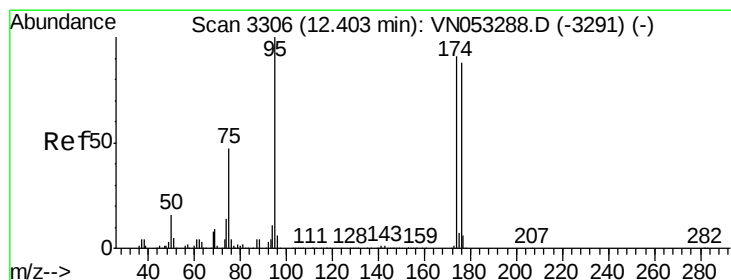
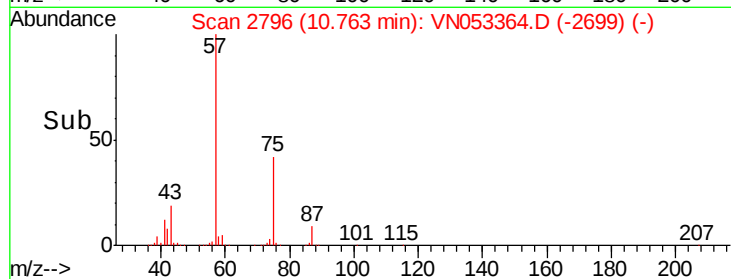
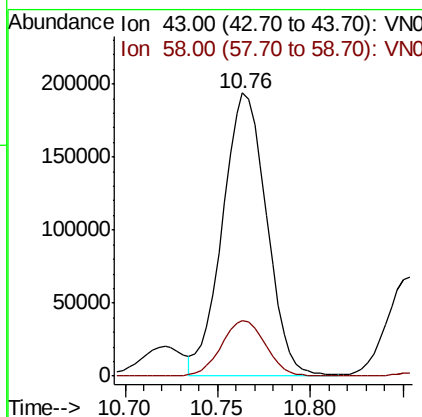
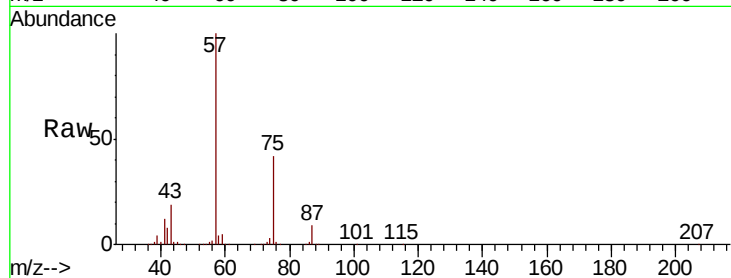
Ion 77.90 (77.60 to 78.60): VN053364.D (-2686) (-)





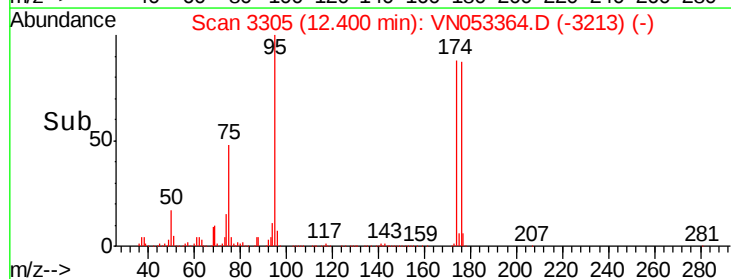
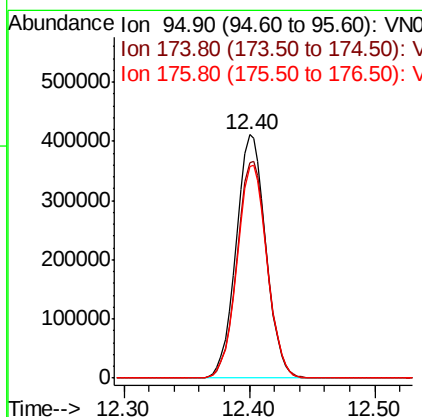
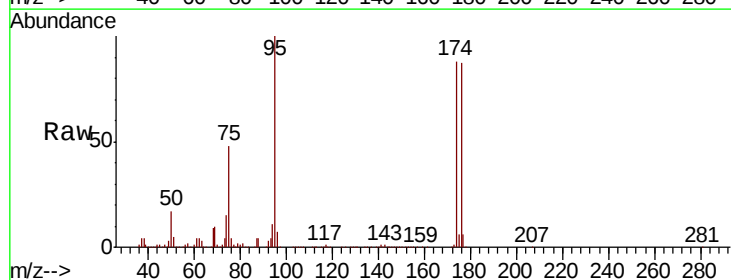
#59
2-Hexanone
Concen: 49.172 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

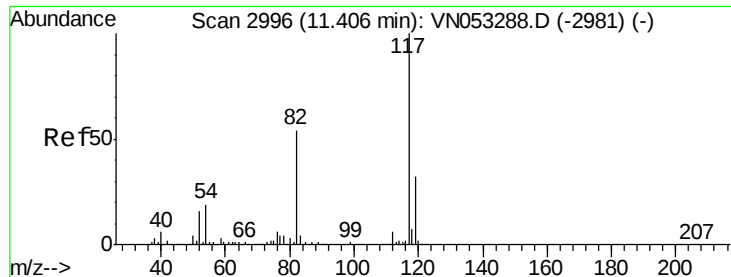
Tgt Ion: 43 Resp: 318987
Ion Ratio Lower Upper
43 100
58 20.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion: 95 Resp: 676025
Ion Ratio Lower Upper
95 100
174 90.4 0.0 180.4
176 88.1 0.0 175.6

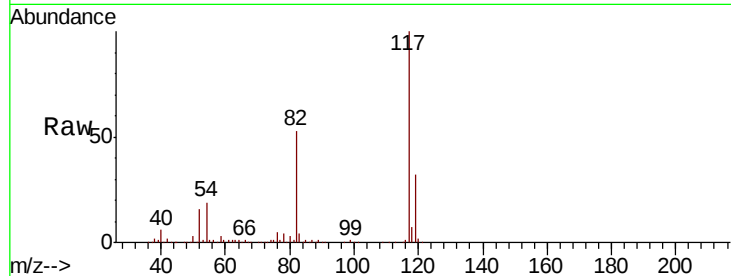




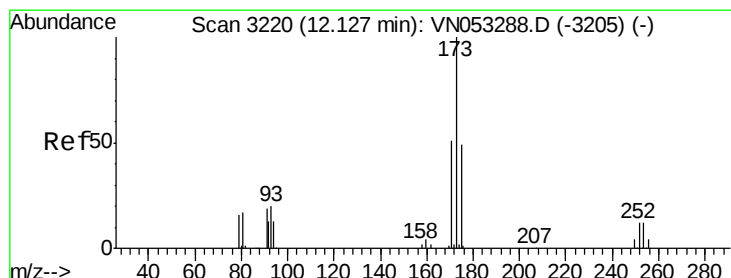
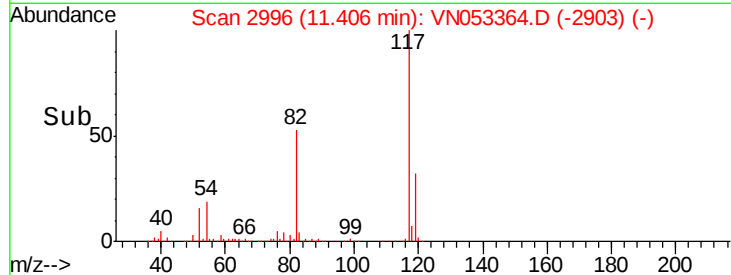
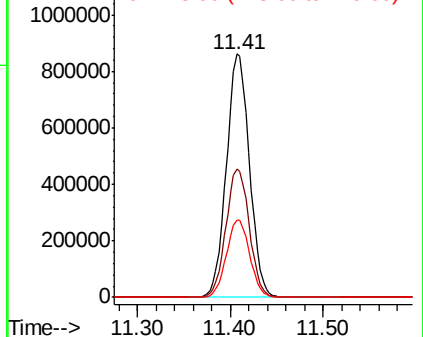
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion:117 Resp: 1480215

Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.9	64.3
119	31.9	25.6	38.4



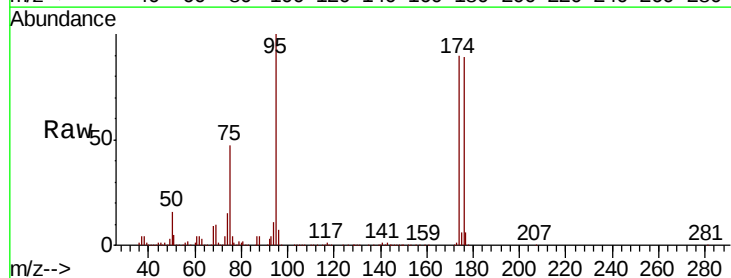
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V



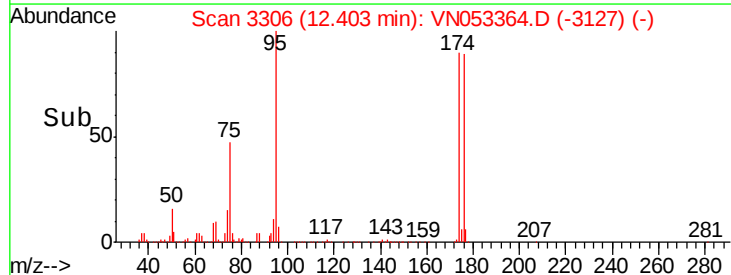
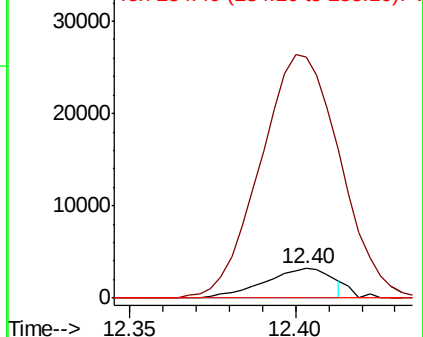
#71
Bromoform
Concen: 0.572 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

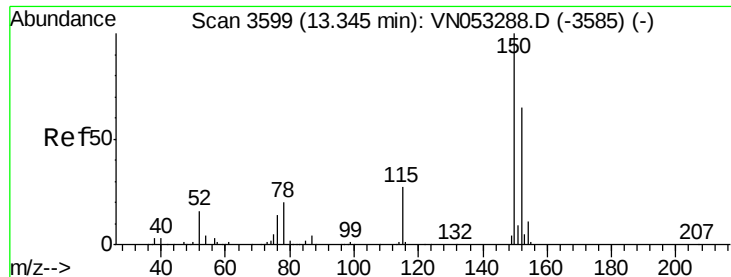
Tgt Ion:173 Resp: 4548

Ion	Ratio	Lower	Upper
173	100		
175	858.2	24.3	72.8#
254	0.0	0.2	0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

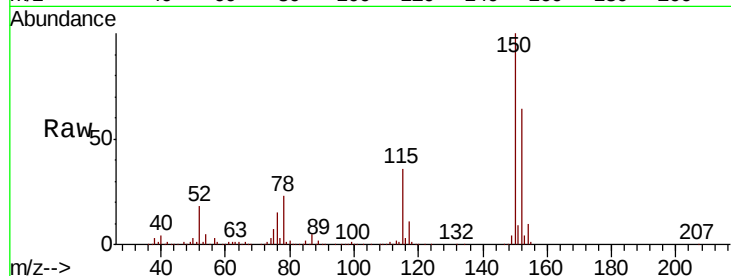




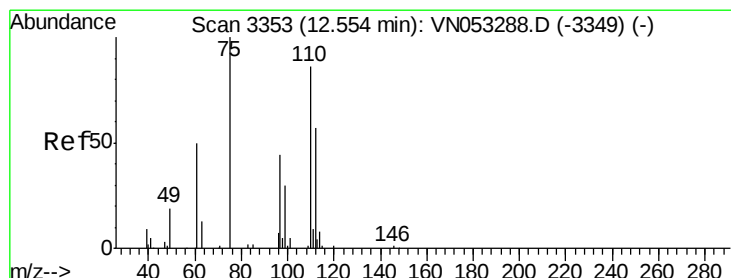
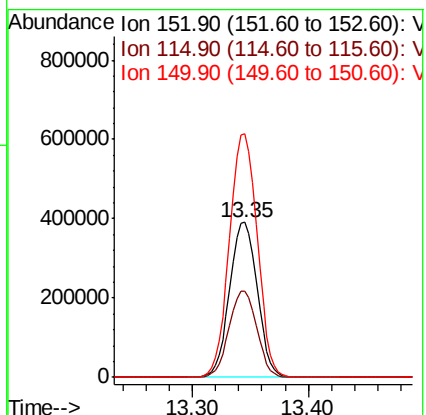
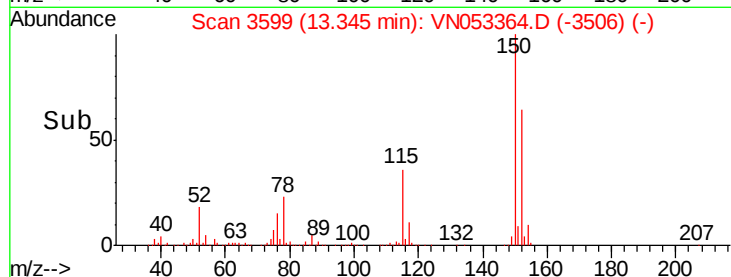
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.0	84.0
150	158.4	0.0	346.6



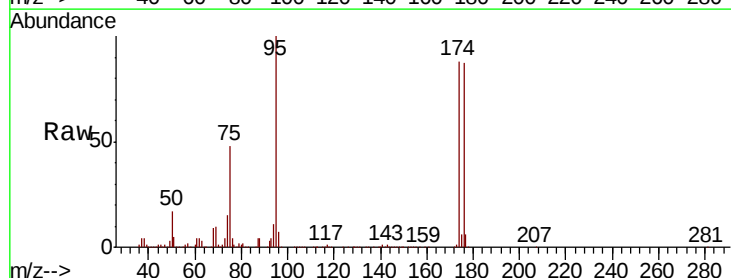
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



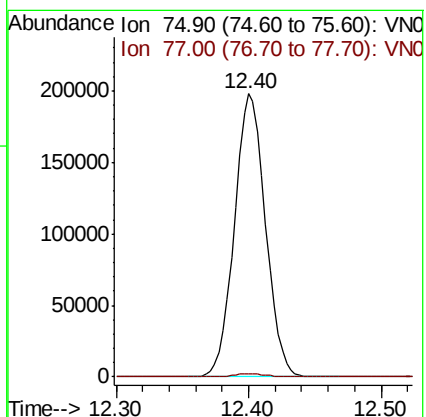
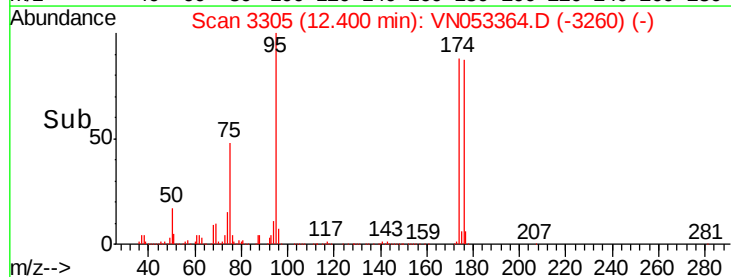
#76

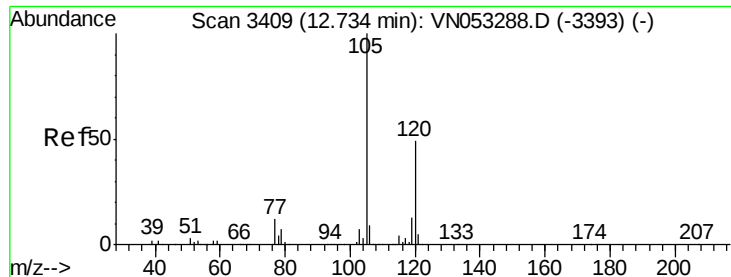
1,2,3-Trichloropropane
Concen: 34.131 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053364.D
Acq: 11 Jan 2019 14:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



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





#80

1,3,5-Trimethylbenzene

Concen: 0.693 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053364.D

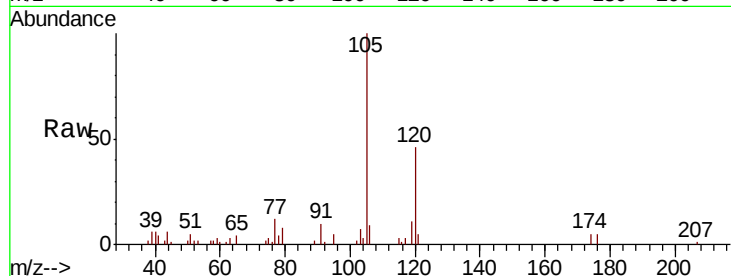
Acq: 11 Jan 2019 14:16

Tgt Ion: 105 Resp: 26751

Ion Ratio Lower Upper

105 100

120 47.3 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

15000

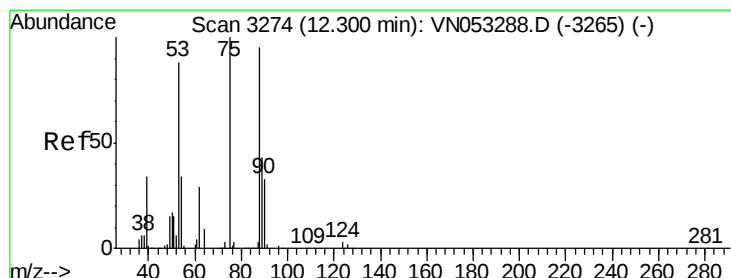
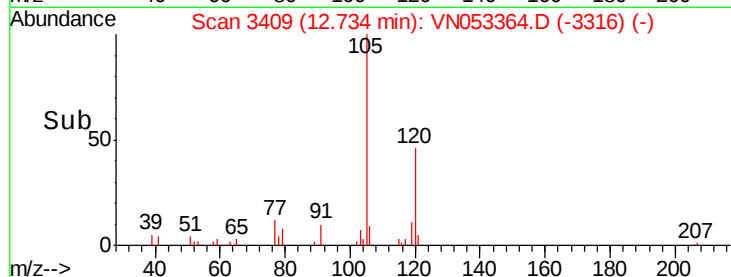
10000

5000

0

12.65 12.70 12.75

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 100.420 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053364.D

Acq: 11 Jan 2019 14:16

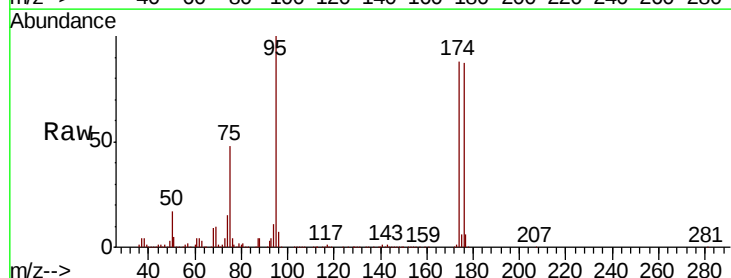
Tgt Ion: 75 Resp: 320505

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

250000

200000

150000

100000

50000

0

12.30 12.40 12.50

Time-->

