

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011119\
 Data File : VN053365.D
 Acq On : 11 Jan 2019 14:43
 Operator : JC/SP
 Sample : PB116316ZHE#08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 28

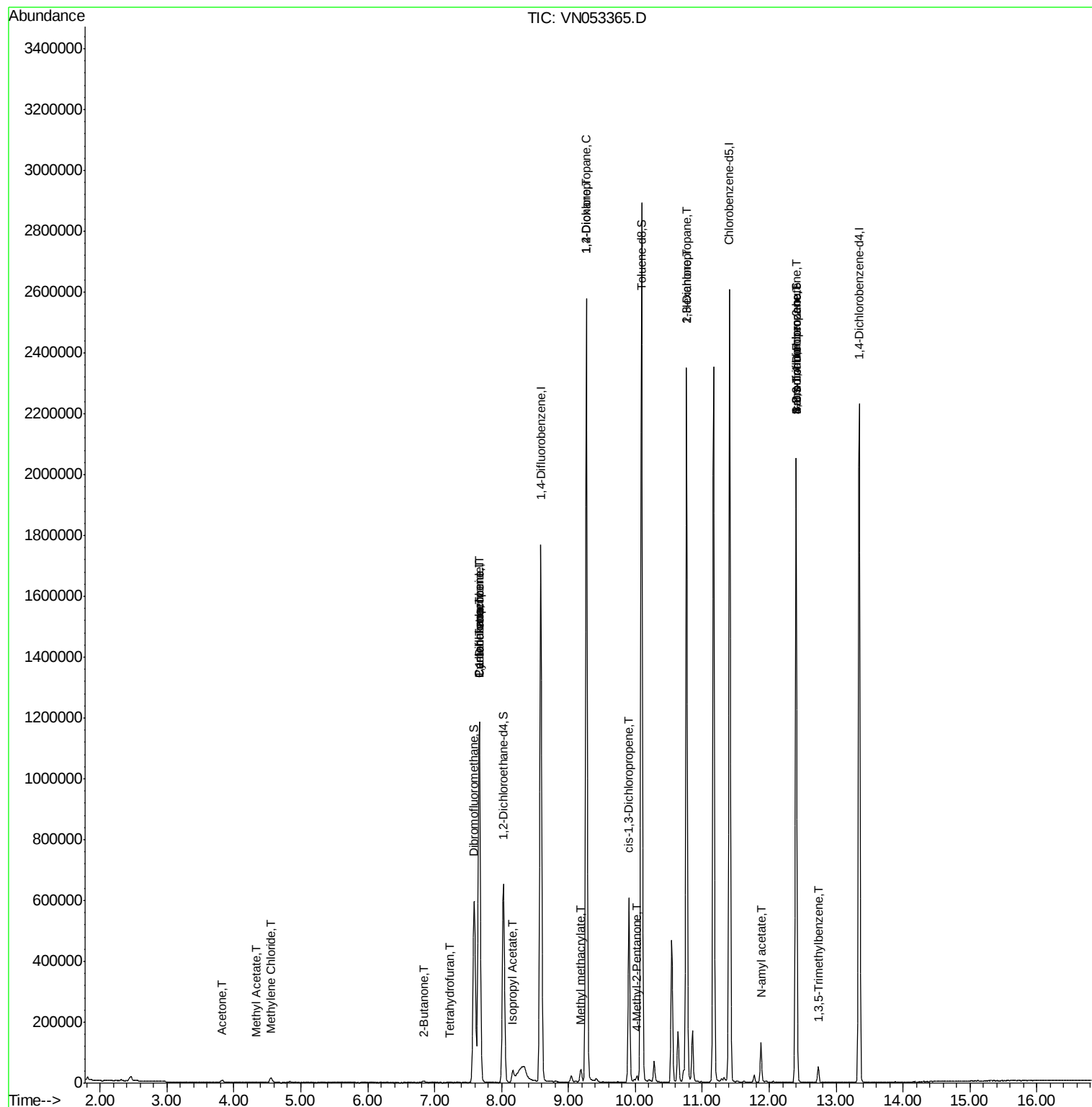
Quant Time: Jan 12 00:40:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N010519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jan 07 09:34:27 2019
 Response via : Initial Calibration

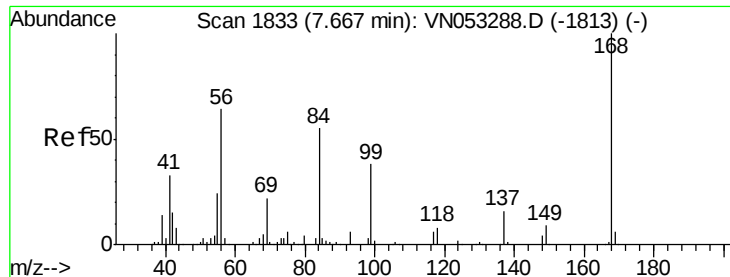
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1048875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1658732	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1559484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	647240	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	539277	49.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.84%	
35) Dibromofluoromethane	7.59	113	471400	49.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.84%	
50) Toluene-d8	10.09	98	2058792	50.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.40	95	710410	49.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.64%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	15619	3.746	ug/l	98
18) Methyl Acetate	4.33	43	2685	0.272	ug/l	100
20) Methylene Chloride	4.55	84	11874	1.013	ug/l	97
25) 2-Butanone	6.84	43	944	0.211	ug/l	93
29) Tetrahydrofuran	7.22	42	1686	0.571	ug/l #	66
31) Cyclohexane	7.67	56	16351	0.686	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	68103	4.398	ug/l #	49
38) Carbon Tetrachloride	7.66	117	91893	6.429	ug/l #	16
43) Isopropyl Acetate	8.17	43	51851	2.613	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	3439	0.277	ug/l #	43
48) Methyl methacrylate	9.18	41	13756	1.526	ug/l #	12
49) 1,4-Dioxane	9.27	88	342	3.561	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17621	1.766	ug/l #	34
54) cis-1,3-Dichloropropene	9.91	75	112982	6.340	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	25217	1.413	ug/l #	42
59) 2-Hexanone	10.76	43	326389	47.739	ug/l #	50
71) Bromoform	12.40	173	4729	0.565	ug/l #	1
74) N-amyl acetate	11.88	43	39414	2.739	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	329854	34.941	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	25948	0.668	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	329854	102.802	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: VN053365.D

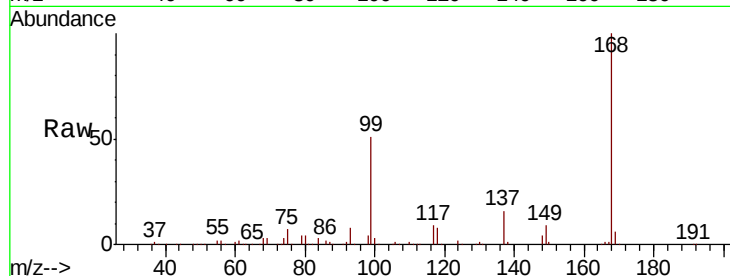
Acq: 11 Jan 2019 14:43

Tgt Ion:168 Resp: 1048875

Ion Ratio Lower Upper

168 100

99 50.5 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

500000

400000

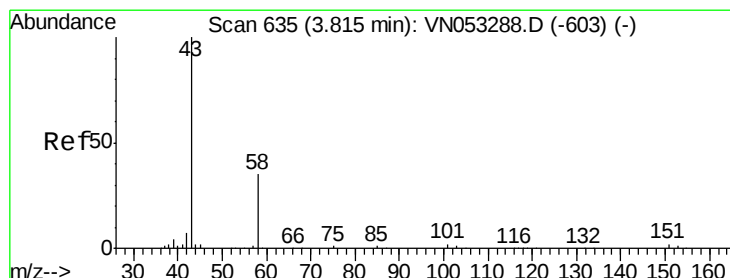
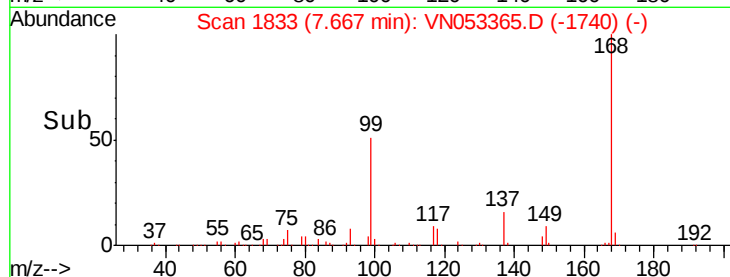
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 3.746 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053365.D

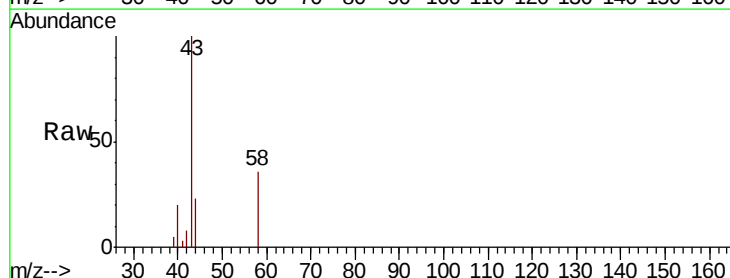
Acq: 11 Jan 2019 14:43

Tgt Ion: 43 Resp: 15619

Ion Ratio Lower Upper

43 100

58 35.6 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

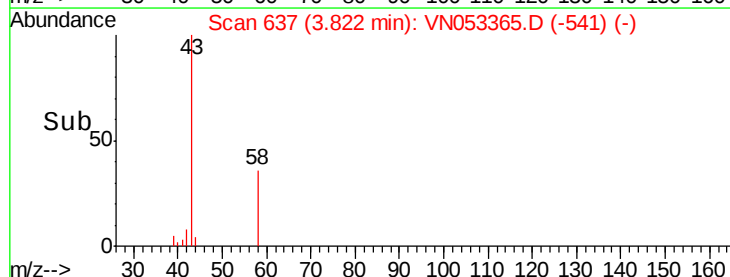
3000

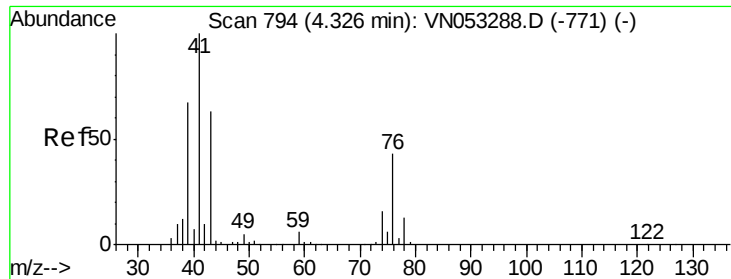
2000

1000

0

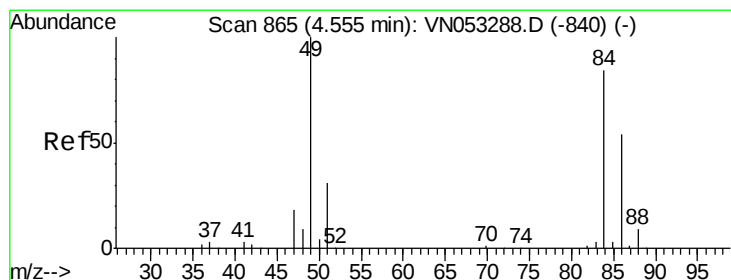
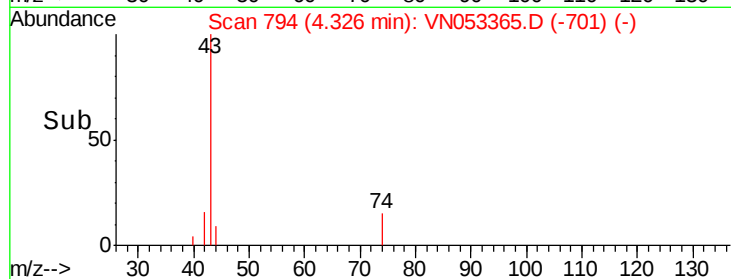
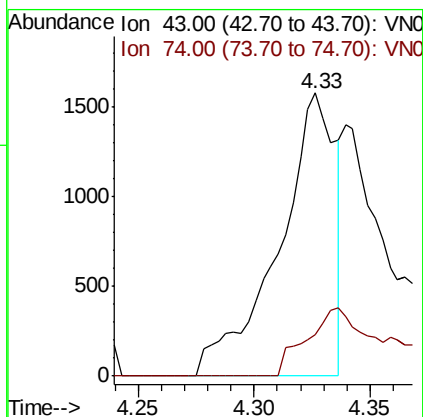
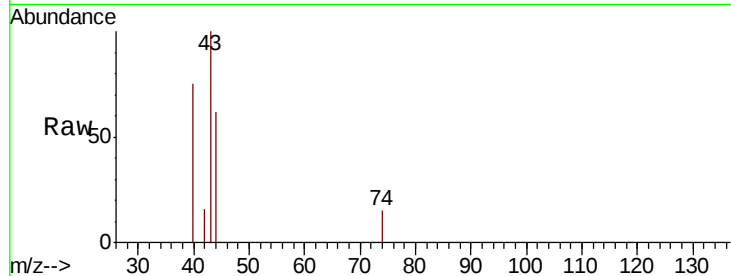
Time-->





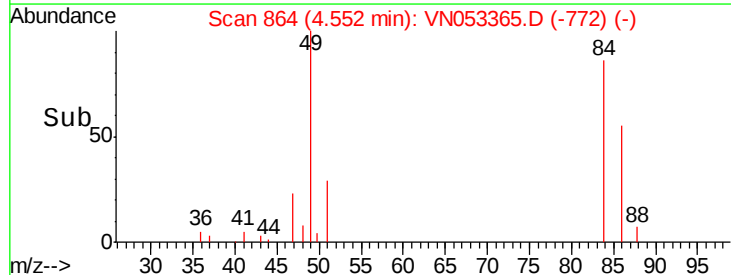
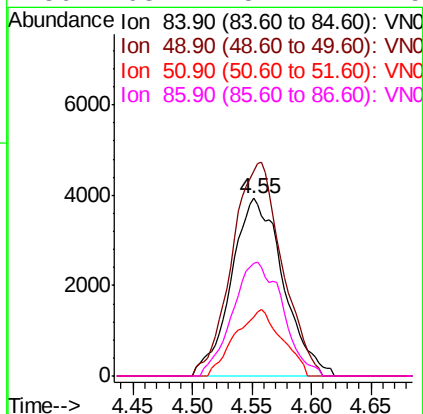
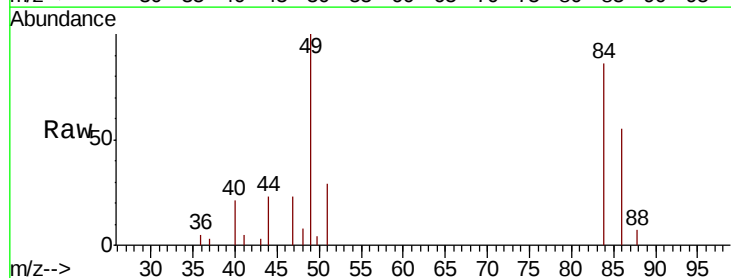
#18
Methyl Acetate
Concen: 0.272 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

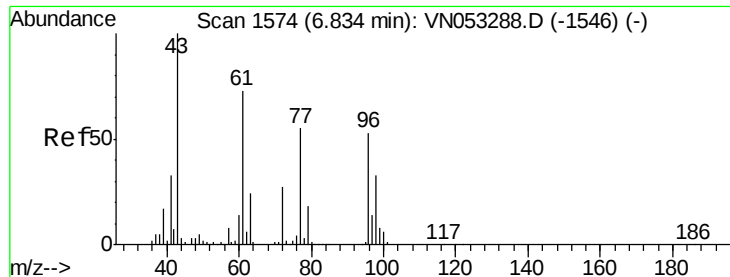
Tgt Ion: 43 Resp: 2685
Ion Ratio Lower Upper
43 100
74 24.9 19.8 29.8



#20
Methylene Chloride
Concen: 1.013 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion: 84 Resp: 11874
Ion Ratio Lower Upper
84 100
49 115.8 95.3 142.9
51 33.3 29.0 43.6
86 63.7 51.7 77.5





#25

2-Butanone

Concen: 0.211 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053365.D

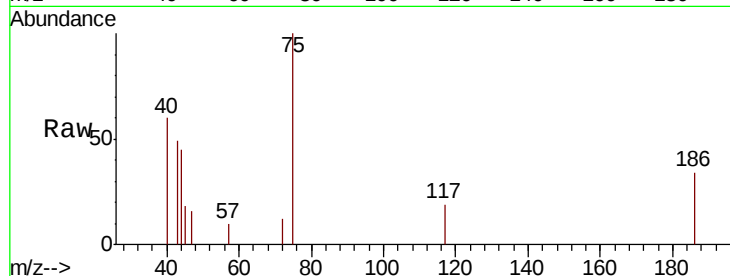
Acq: 11 Jan 2019 14:43

Tgt Ion: 43 Resp: 944

Ion Ratio Lower Upper

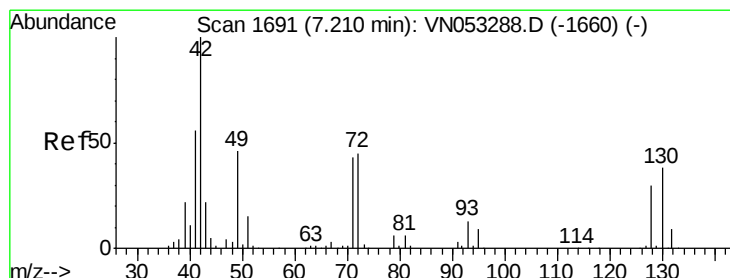
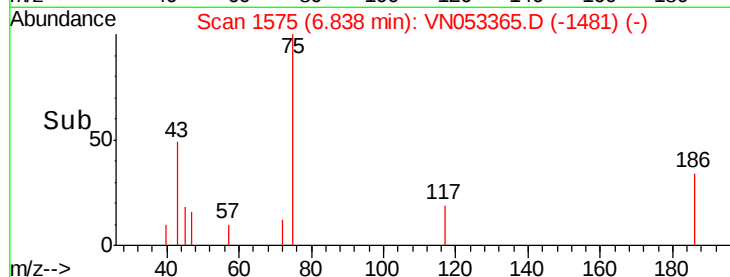
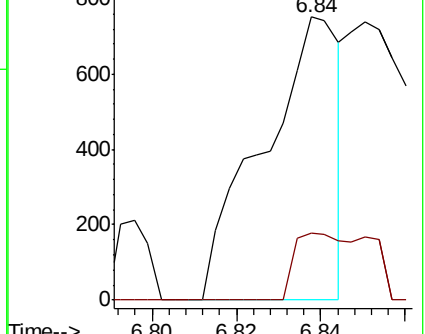
43 100

72 23.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.571 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053365.D

Acq: 11 Jan 2019 14:43

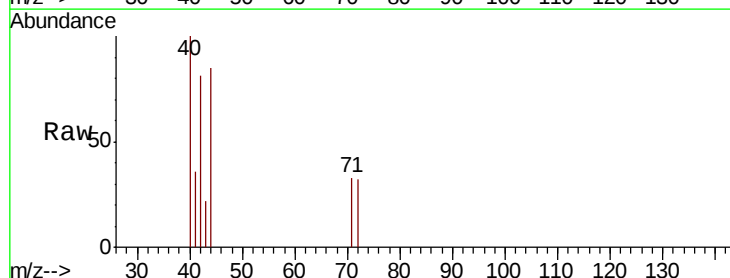
Tgt Ion: 42 Resp: 1686

Ion Ratio Lower Upper

42 100

72 22.5 35.6 53.4#

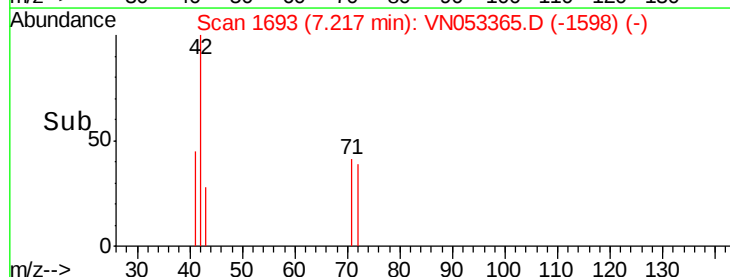
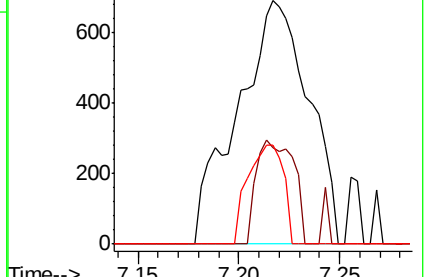
71 20.6 33.8 50.8#

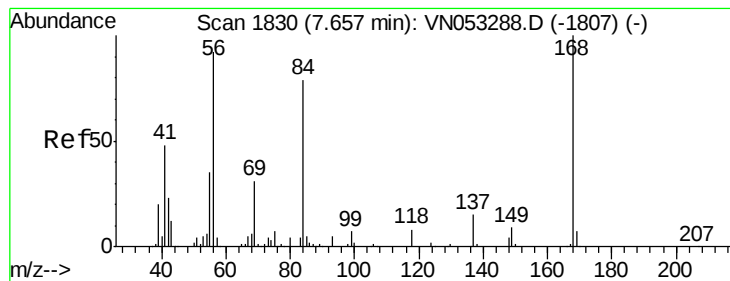


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.686 ug/l

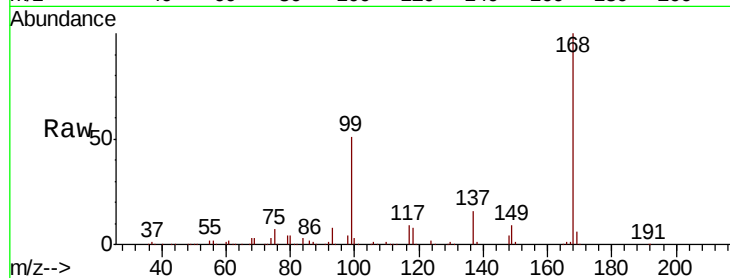
RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053365.D

Acq: 11 Jan 2019 14:43

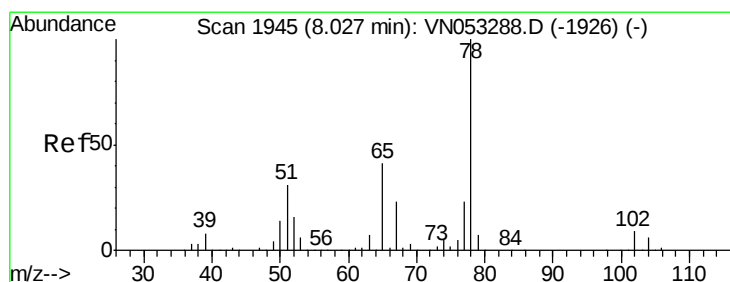
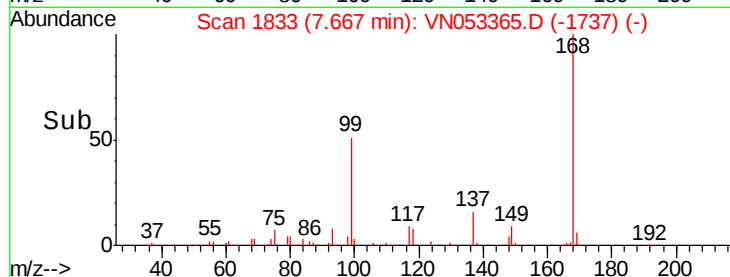
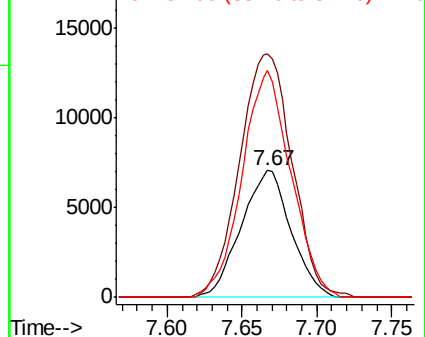
Tgt Ion:	56	Resp:	16351
Ion	Ratio	Lower	Upper
56	100		
69	192.1	26.7	40.1#
84	179.0	68.2	102.4#



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: N.D. ug/l

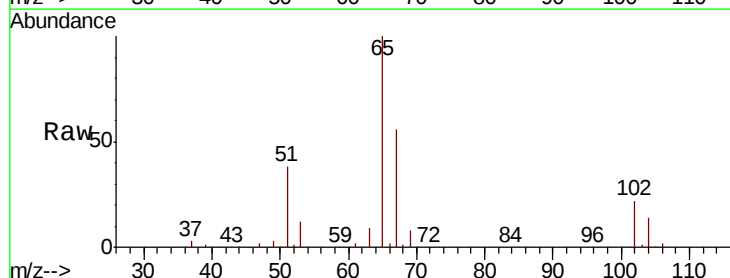
RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053365.D

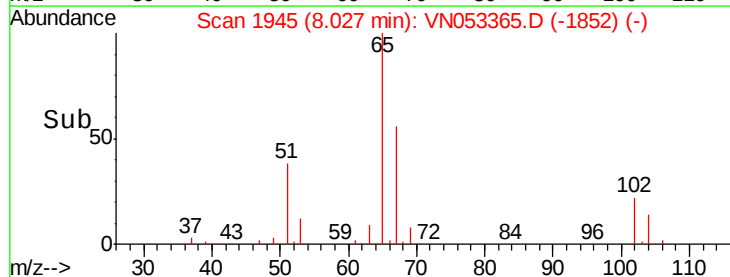
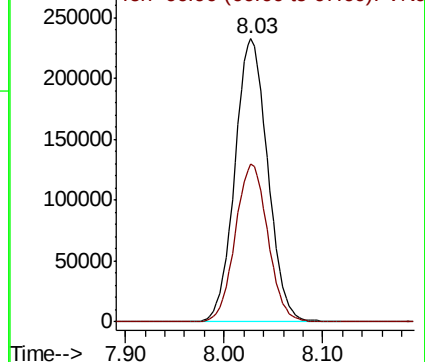
Acq: 11 Jan 2019 14:43

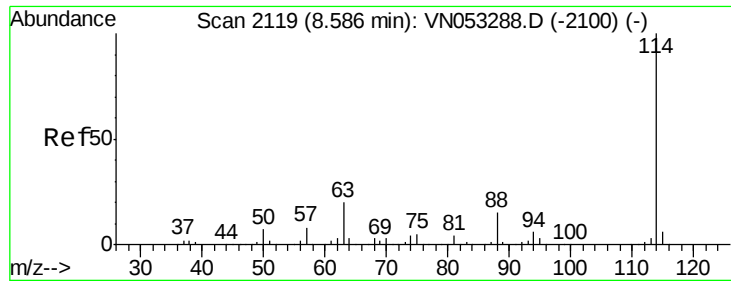
Tgt Ion:	65	Resp:	539277
Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	111.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

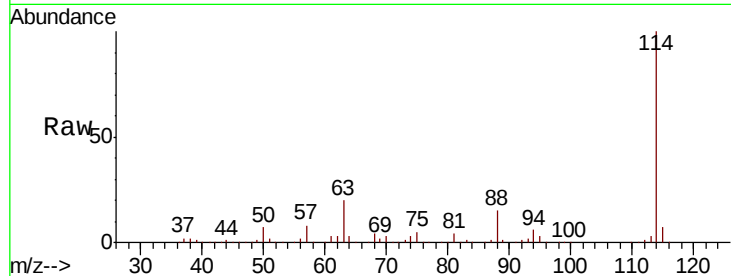




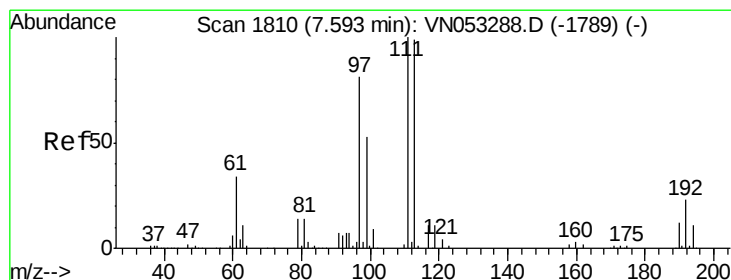
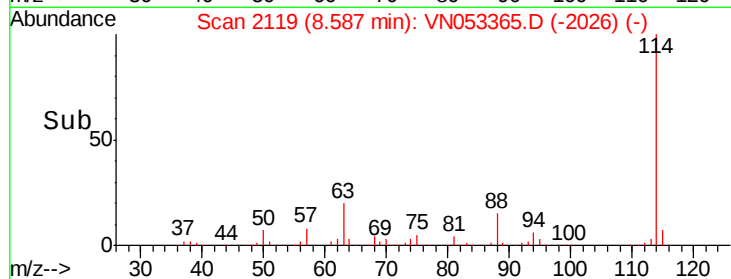
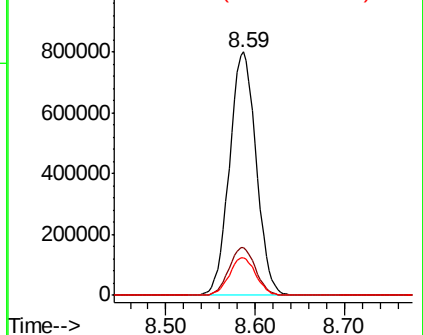
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

Tgt Ion:114 Resp: 1658732

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.0
88	15.3	0.0	30.8



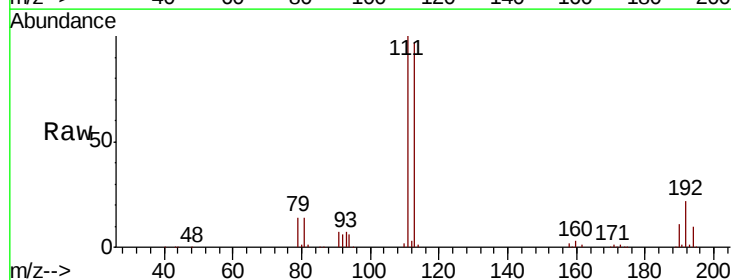
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



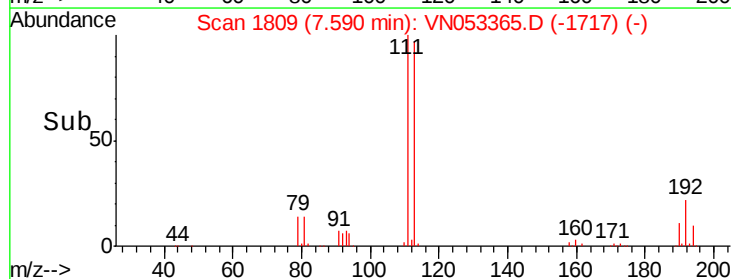
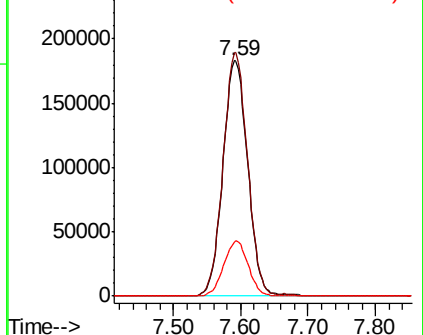
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

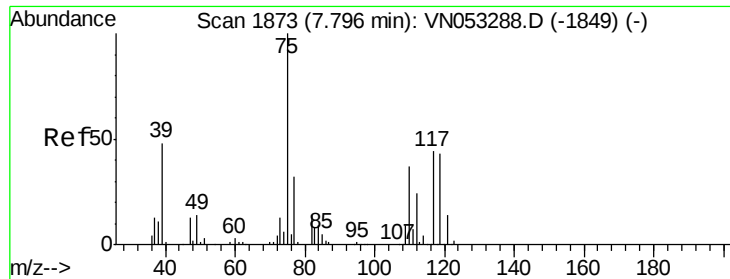
Tgt Ion:113 Resp: 471400

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.2
192	23.0	17.9	26.9



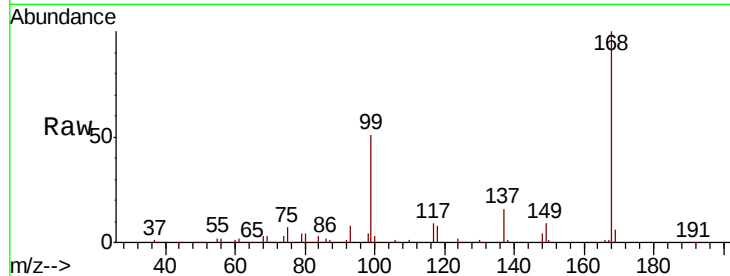
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



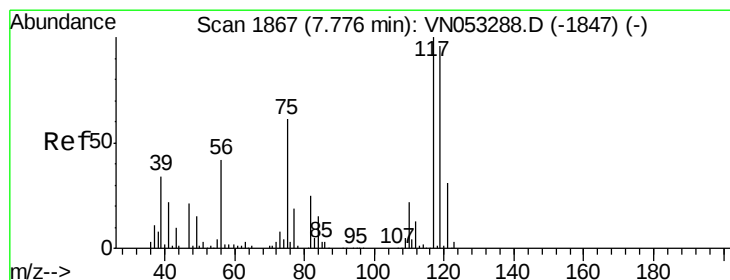
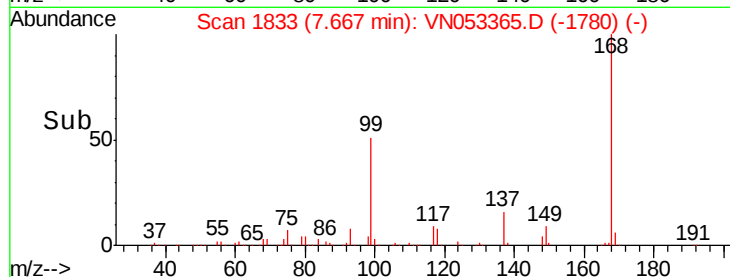
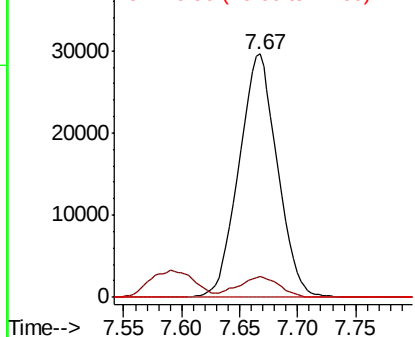


#36
 1,1-Dichloropropene
 Concen: 4.398 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.4	55.0#
77	0.0	25.3	37.9#

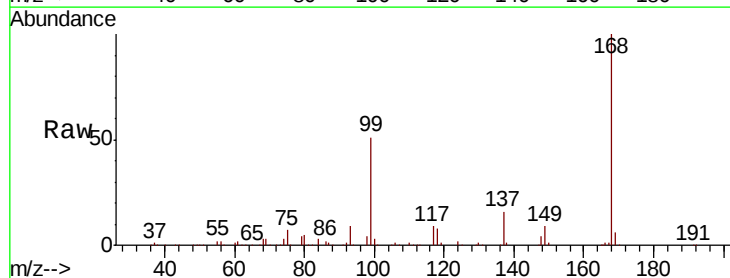


Abundance Ion 74.90 (74.60 to 75.60): VN053288.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN053288.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN053288.D (-1849) (-)

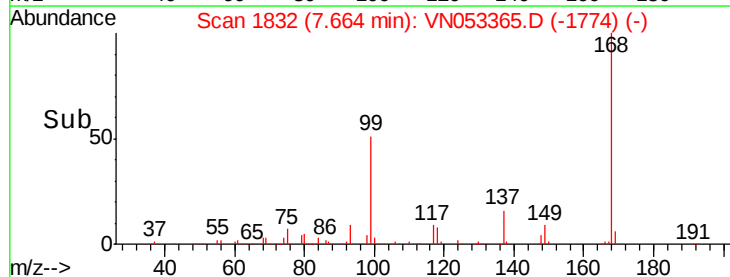
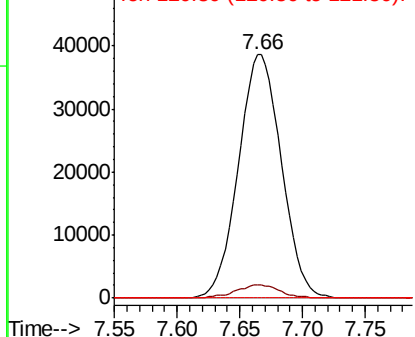


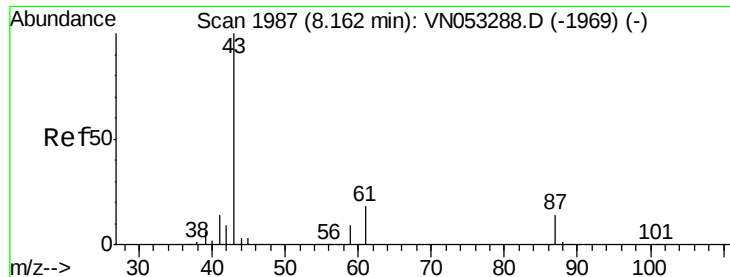
#38
 Carbon Tetrachloride
 Concen: 6.429 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	76.6	115.0#
121	0.0	25.0	37.4#



Abundance Ion 116.80 (116.50 to 117.50): VN053288.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN053288.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN053288.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 2.613 ug/l

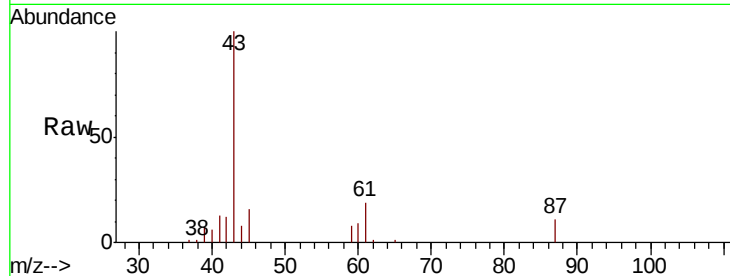
RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

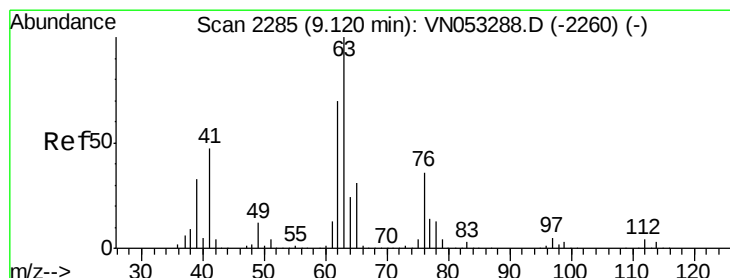
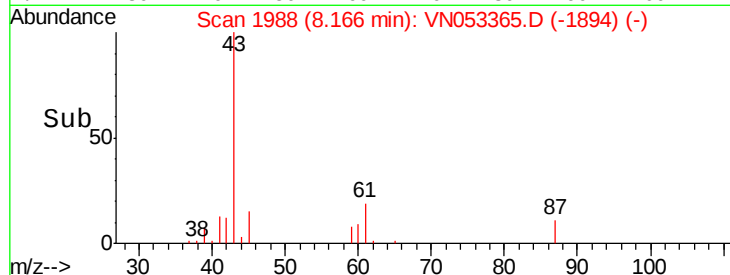
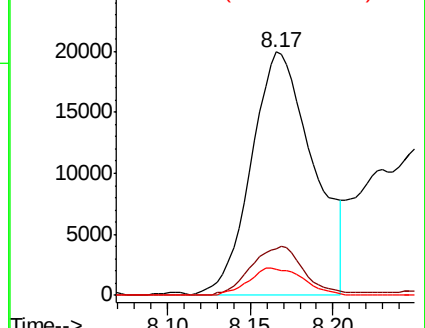
Lab File: VN053365.D

Acq: 11 Jan 2019 14:43

Tgt Ion:	43	Resp:	51851
Ion	Ratio	Lower	Upper
43	100		
61	17.5	23.3	34.9#
87	10.0	10.8	16.2#



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



#45

1,2-Dichloropropane

Concen: 0.277 ug/l

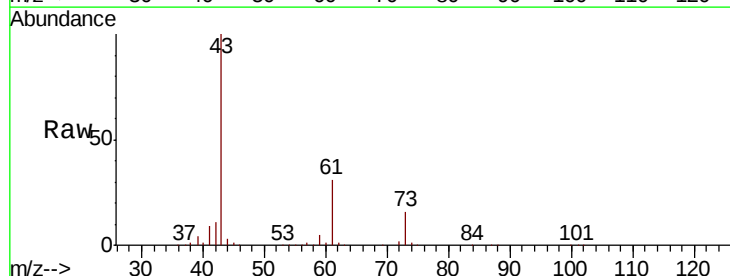
RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

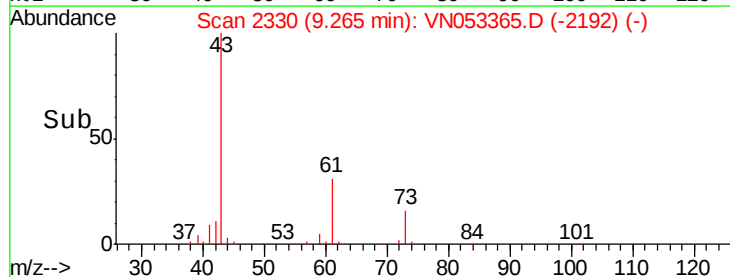
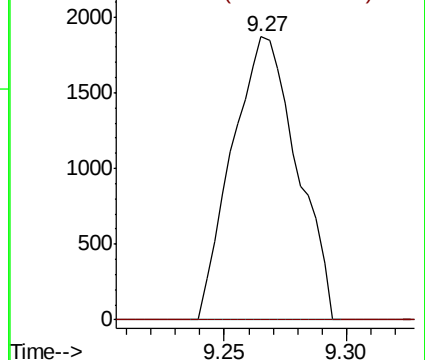
Lab File: VN053365.D

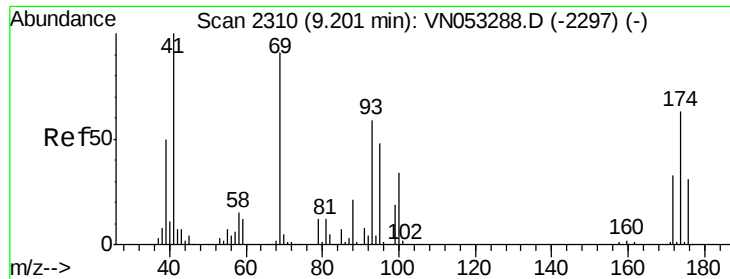
Acq: 11 Jan 2019 14:43

Tgt Ion:	63	Resp:	3439
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.6#



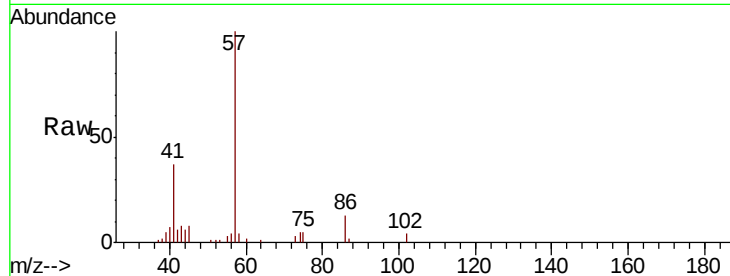
Abundance Ion 62.90 (62.60 to 63.60): VN053288.D (-2260) (-)



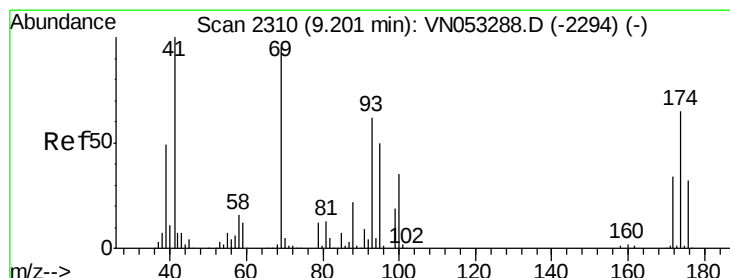
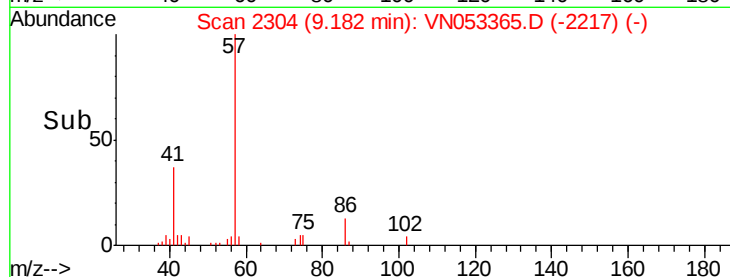
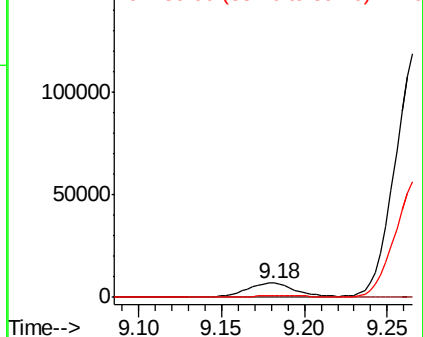


#48
Methyl methacrylate
Concen: 1.526 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion: 41 Resp: 13756
Ion Ratio Lower Upper
41 100
69 0.0 73.5 110.3#
39 0.0 41.6 62.4#

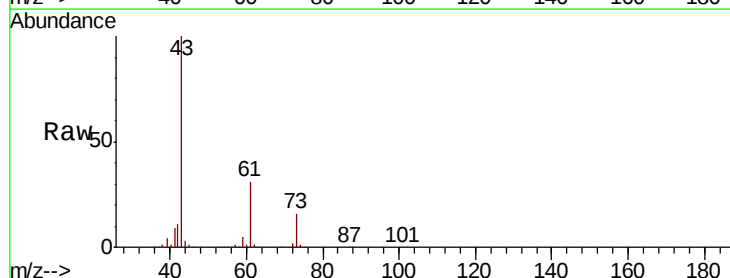


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

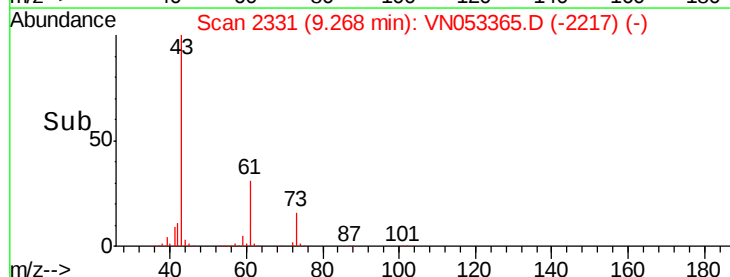
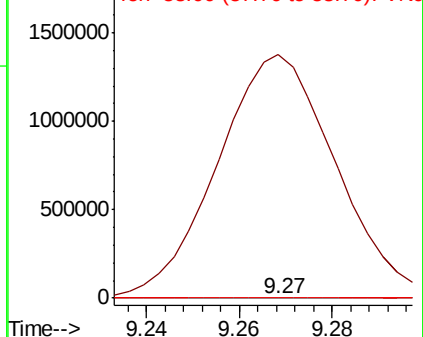


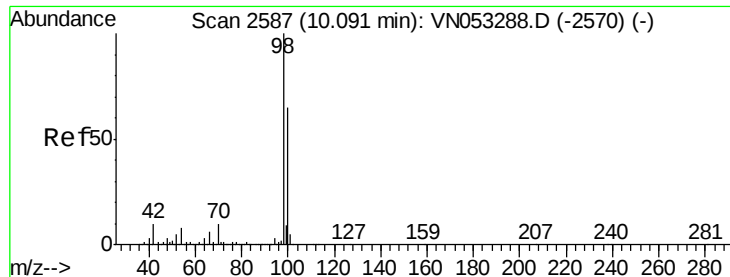
#49
1,4-Dioxane
Concen: 3.561 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion: 88 Resp: 342
Ion Ratio Lower Upper
88 100
43 723253.2 26.2 39.4#
58 3222.5 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: 3.561 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053365.D

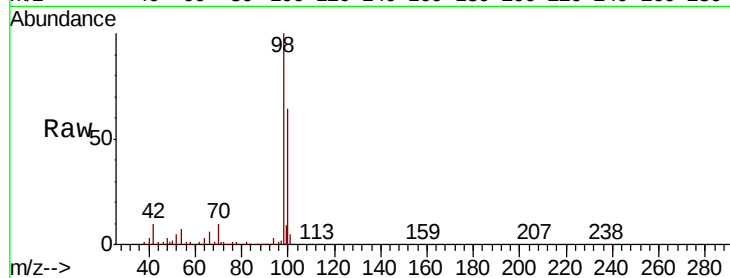
Acq: 11 Jan 2019 14:43

Tgt Ion: 98 Resp: 2058792

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

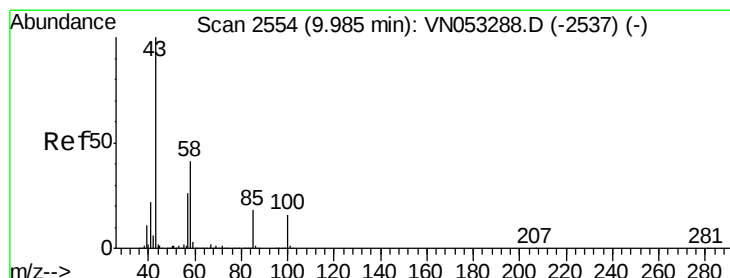
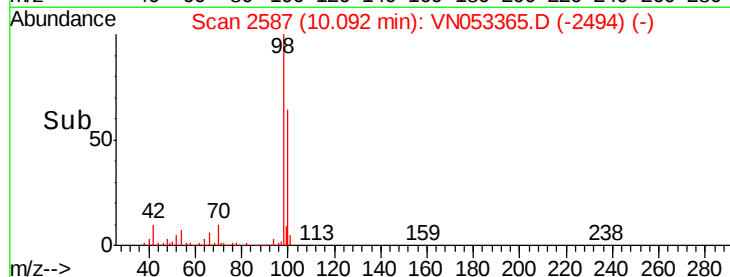
1000000

500000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 1.766 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053365.D

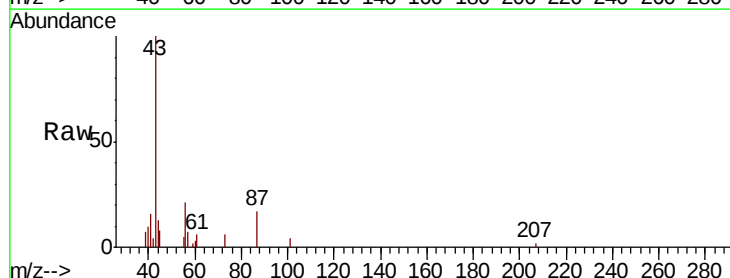
Acq: 11 Jan 2019 14:43

Tgt Ion: 43 Resp: 17621

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

6000

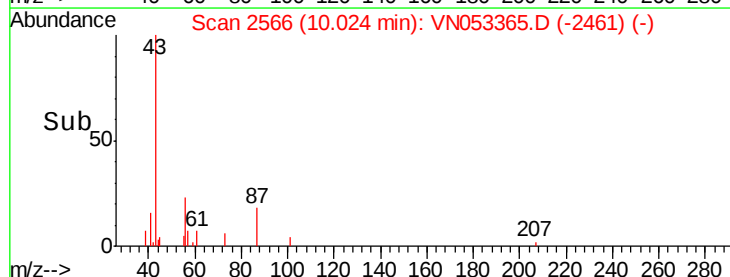
4000

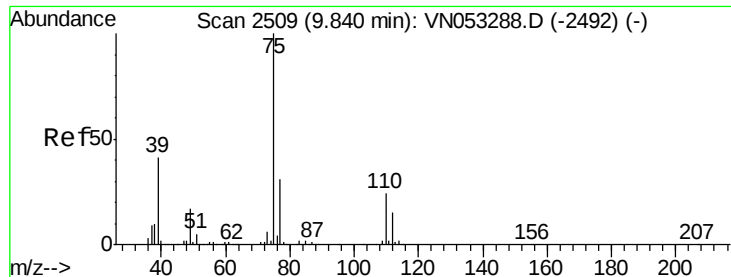
2000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 6.340 ug/l

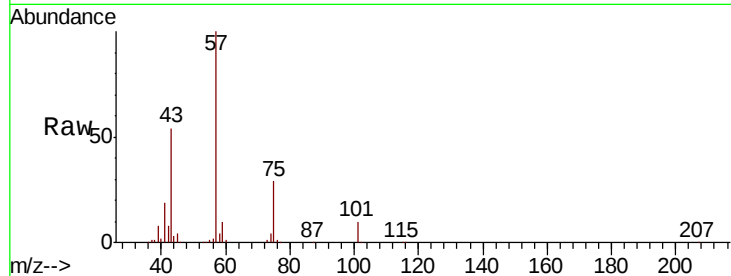
RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053365.D

Acq: 11 Jan 2019 14:43

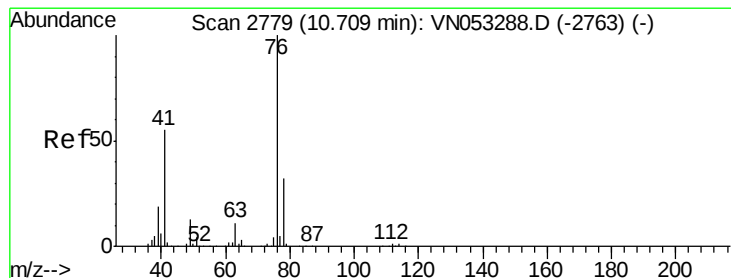
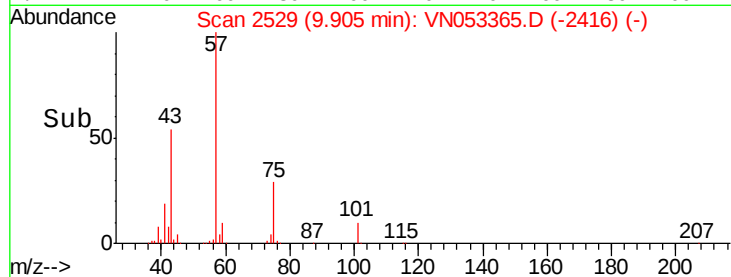
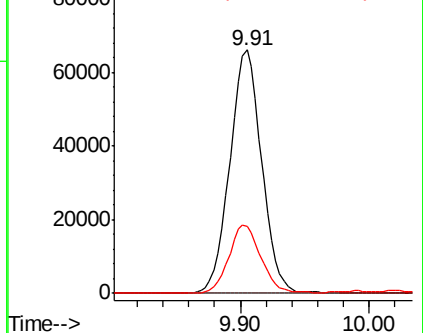
Tgt Ion:	75	Resp:	112982
Ion	Ratio	Lower	Upper
75	100		
77	0.4	25.1	37.7#
39	27.4	33.1	49.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.413 ug/l

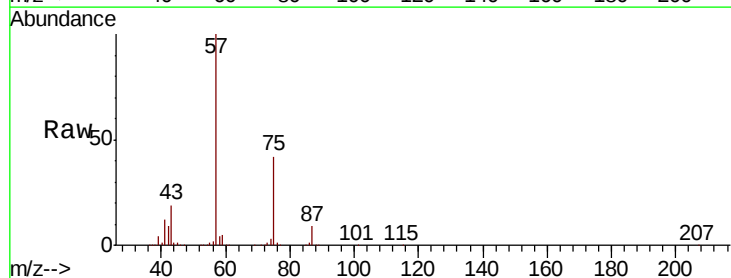
RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053365.D

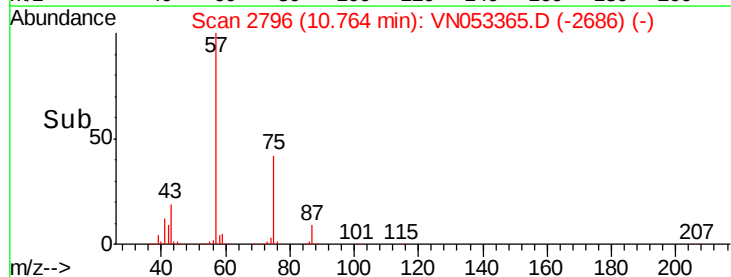
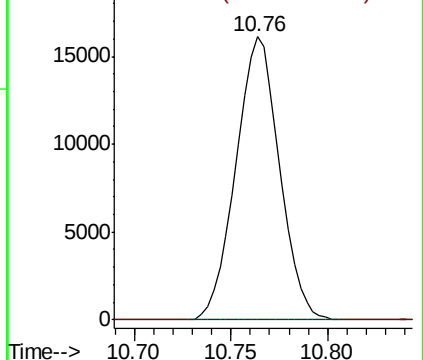
Acq: 11 Jan 2019 14:43

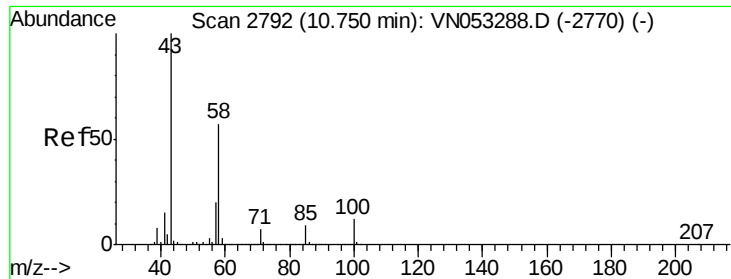
Tgt Ion:	76	Resp:	25217
Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

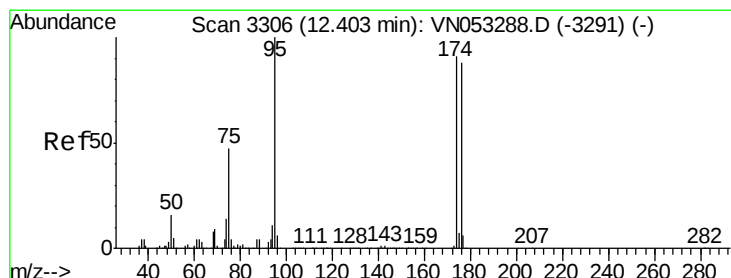
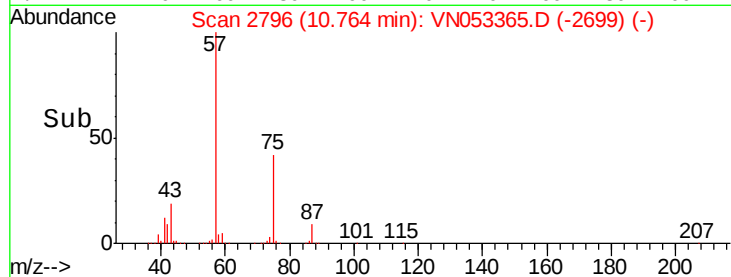
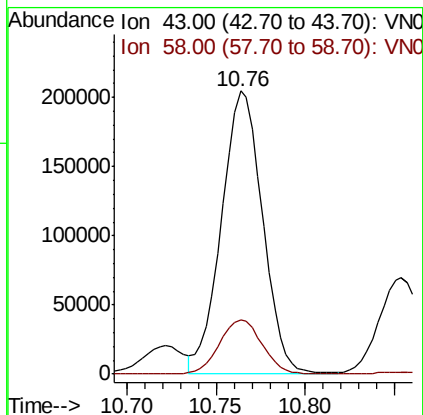
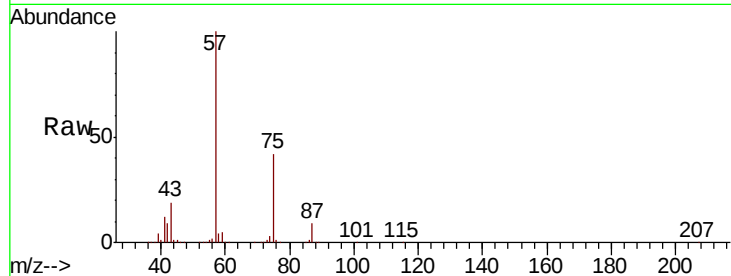
Ion 77.90 (77.60 to 78.60): VN0





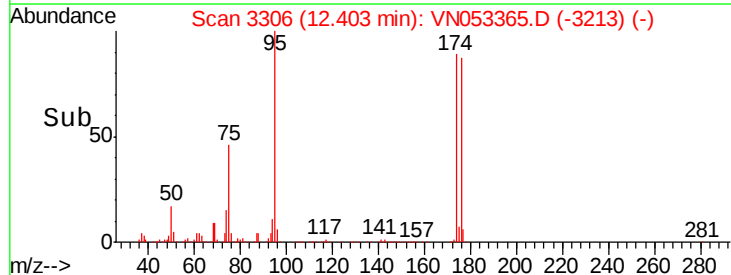
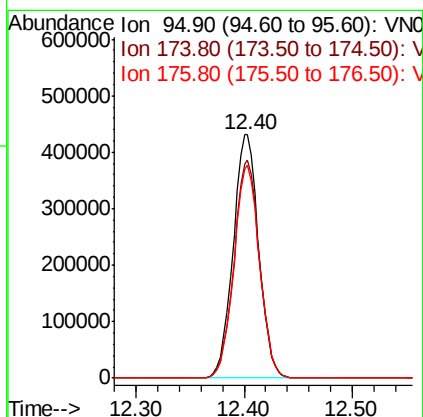
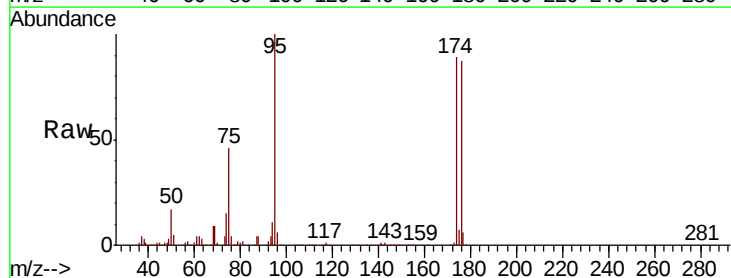
#59
2-Hexanone
Concen: 47.739 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

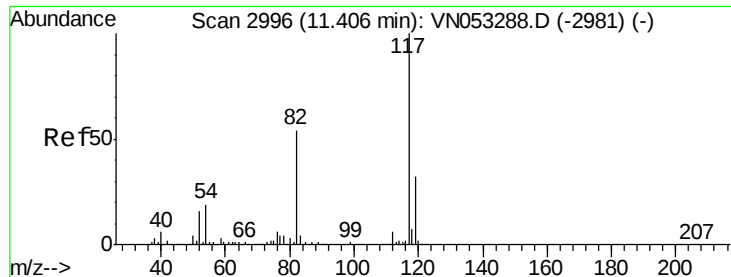
Tgt Ion: 43 Resp: 326389
Ion Ratio Lower Upper
43 100
58 20.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion: 95 Resp: 710410
Ion Ratio Lower Upper
95 100
174 89.7 0.0 180.4
176 87.5 0.0 175.6

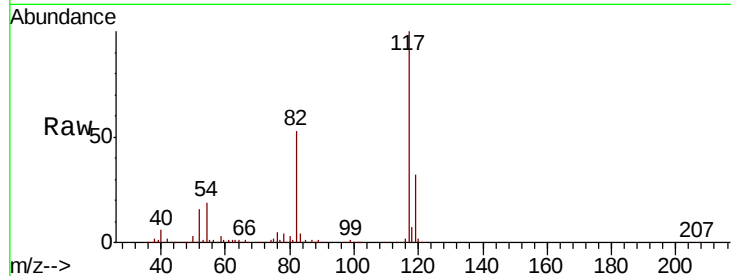




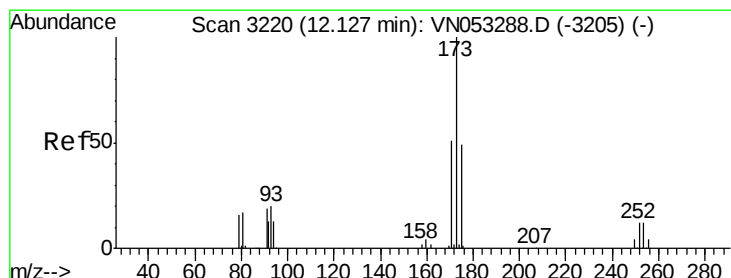
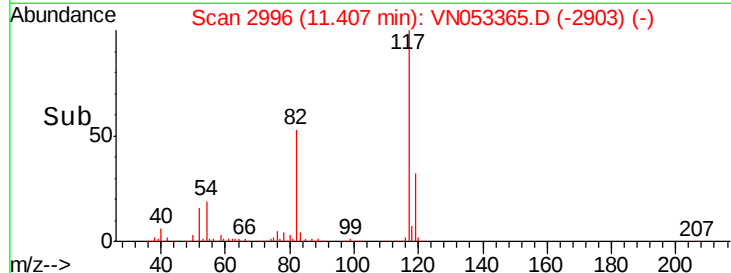
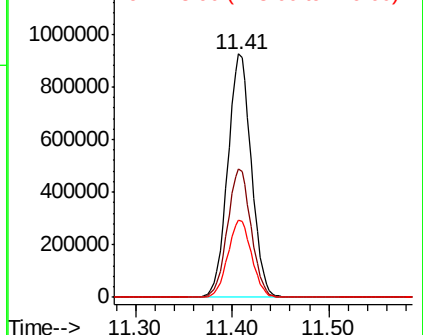
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion:117 Resp: 1559484

Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.9	64.3
119	31.7	25.6	38.4



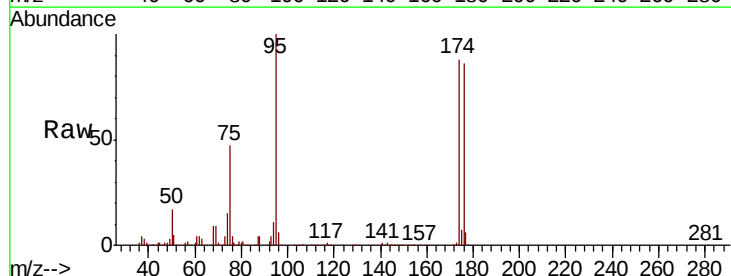
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V



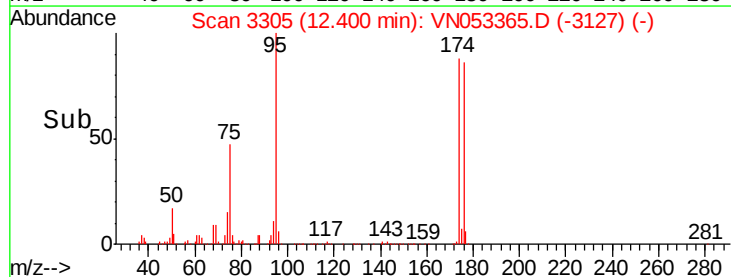
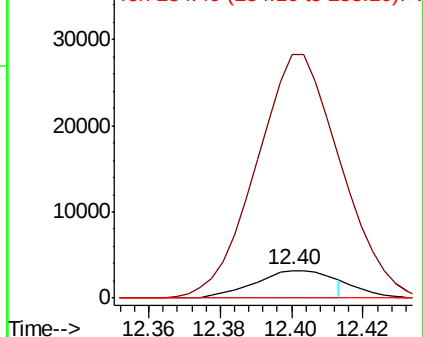
#71
Bromoform
Concen: 0.565 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

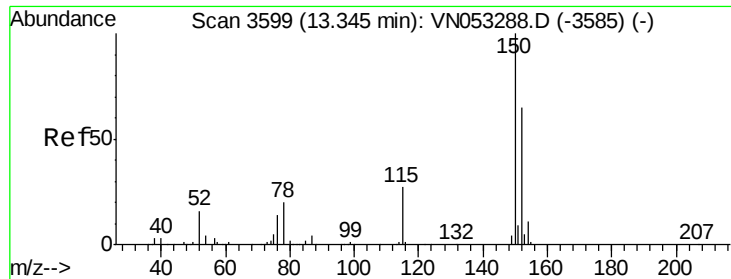
Tgt Ion:173 Resp: 4729

Ion	Ratio	Lower	Upper
173	100		
175	848.6	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

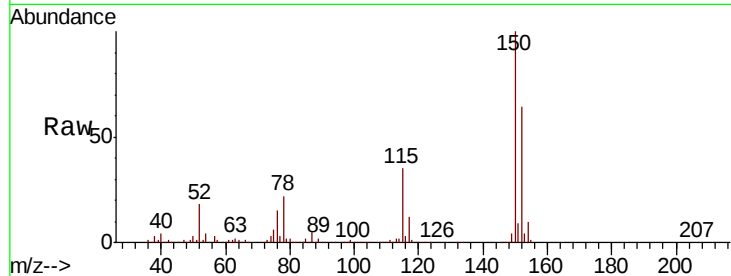




#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.0	84.0
150	156.7	0.0	346.6

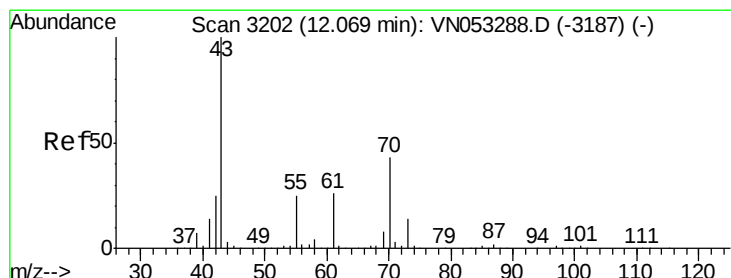
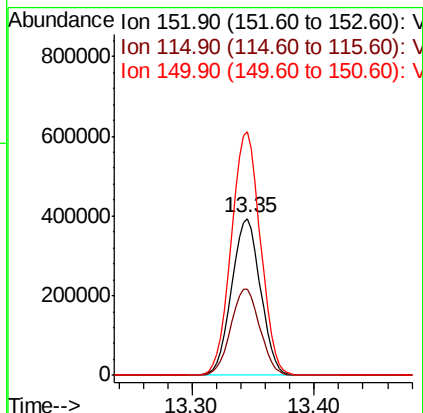
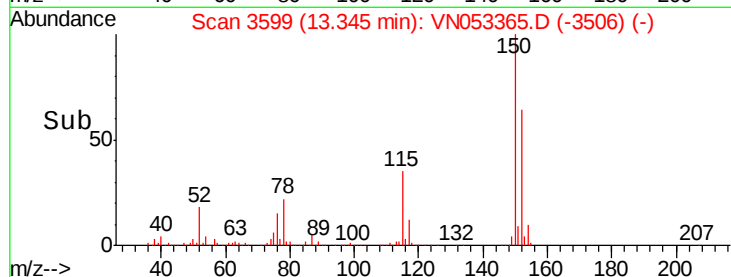


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

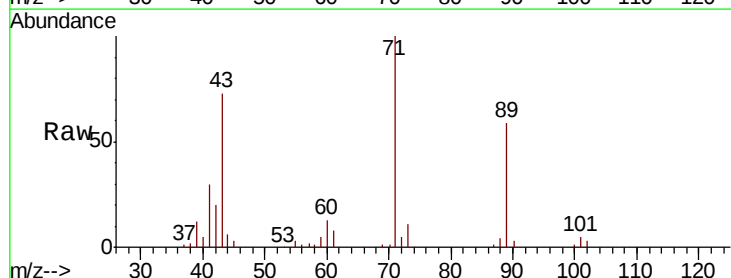
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.739 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053365.D
Acq: 11 Jan 2019 14:43

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.8	35.0	52.6#
55	4.7	20.0	30.0#
61	11.4	20.3	30.5#



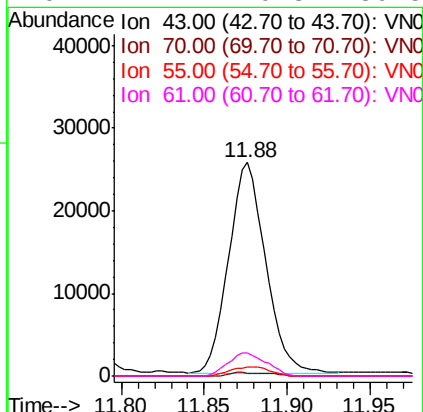
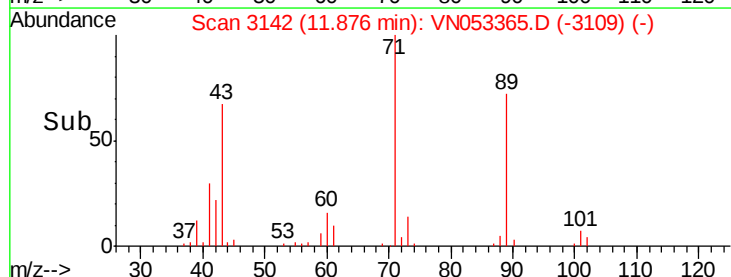
Abundance

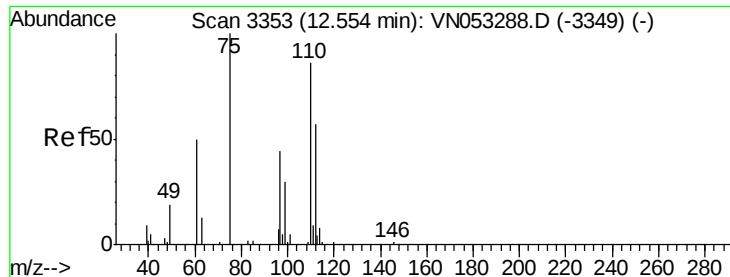
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

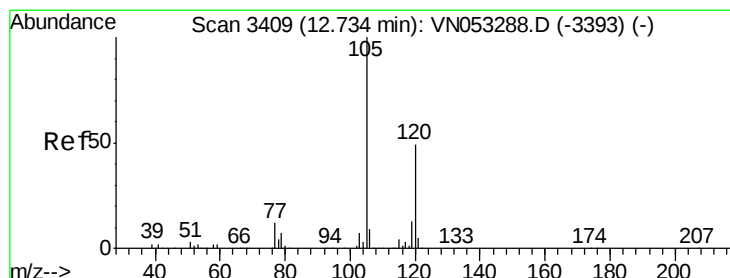
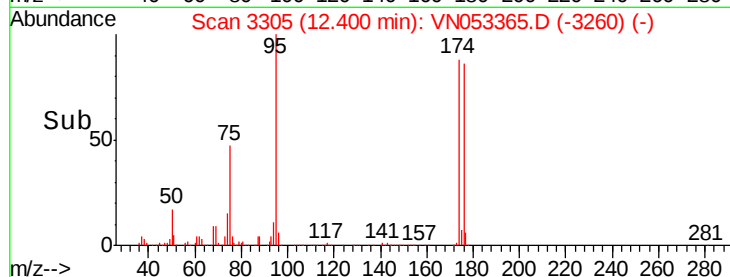
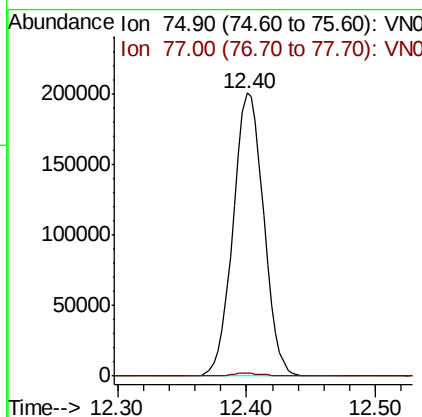
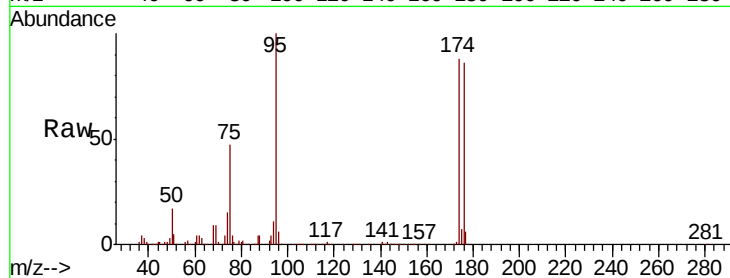
Ion 61.00 (60.70 to 61.70): V





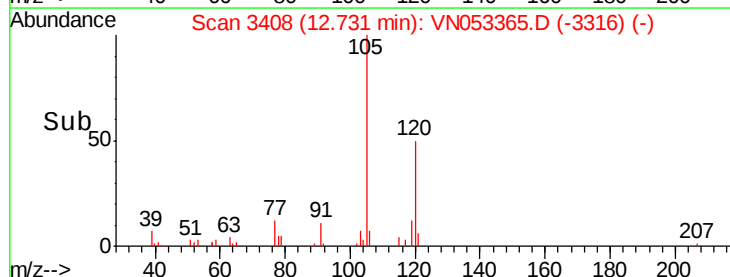
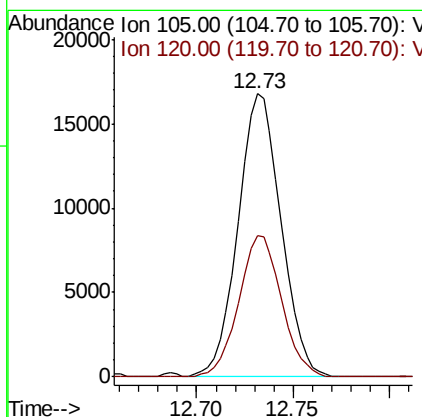
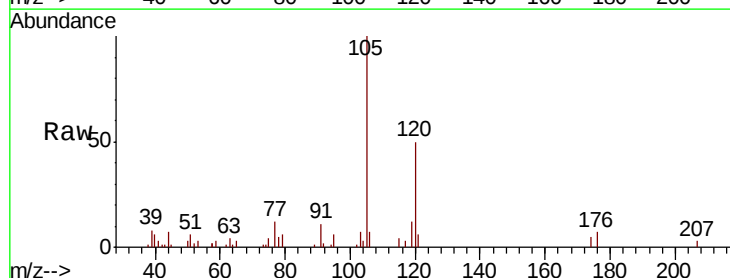
#76
 1,2,3-Trichloropropane
 Concen: 34.941 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

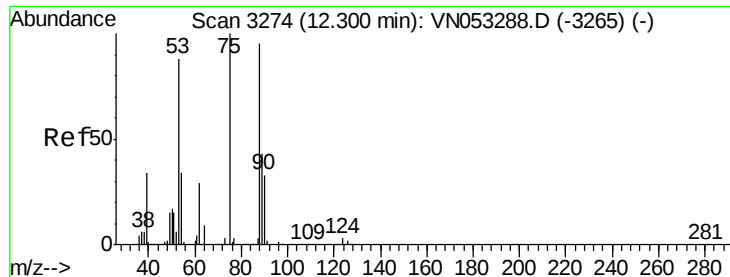
Tgt Ion: 75 Resp: 329854
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.668 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

Tgt Ion: 105 Resp: 25948
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.7 74.1





#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.802 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053365.D
 Acq: 11 Jan 2019 14:43

Tgt Ion:	75	Resp:	329854
Ion	Ratio	Lower	Upper
75	100		
53	0.0	70.5	105.7#
89	0.0	35.4	53.0#

