

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053656.D
 Acq On : 7 Feb 2019 15:26
 Operator : JC/SP
 Sample : PB116887ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

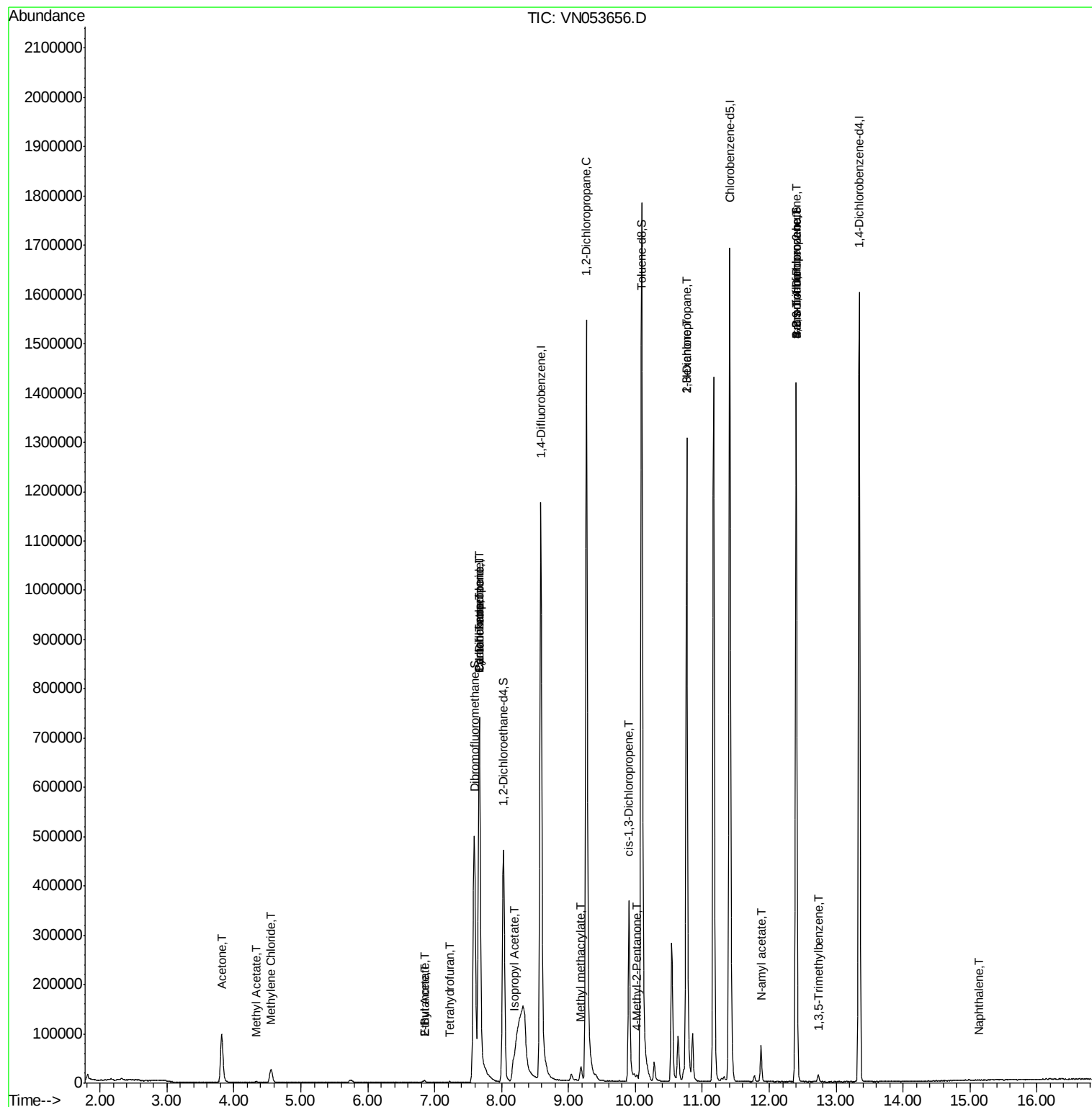
Quant Time: Feb 09 00:29:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

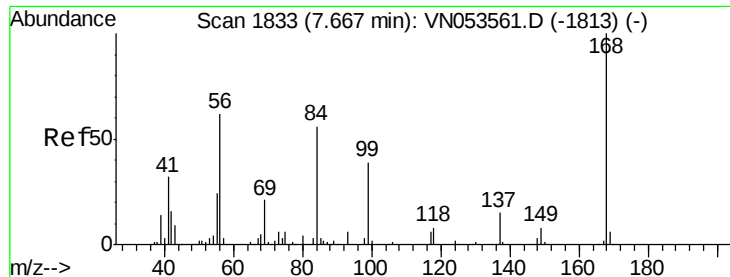
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	749383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1237491	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1140554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	467817	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	405109	53.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.78%	
35) Dibromofluoromethane	7.59	113	398313	50.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.88%	
50) Toluene-d8	10.09	98	1494793	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
62) 4-Bromofluorobenzene	12.40	95	492000	50.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.48%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	166718	86.457	ug/l	99
18) Methyl Acetate	4.35	43	3584	0.628	ug/l #	78
20) Methylene Chloride	4.55	84	20929	2.587	ug/l	96
25) 2-Butanone	6.84	43	4253	1.546	ug/l	100
29) Tetrahydrofuran	7.23	42	1617	0.916	ug/l #	65
31) Cyclohexane	7.66	56	10661	0.671	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46093	4.132	ug/l #	48
37) Ethyl Acetate	6.84	43	4266	0.685	ug/l #	67
38) Carbon Tetrachloride	7.67	117	59992	5.338	ug/l #	16
43) Isopropyl Acetate	8.18	43	36693	3.050	ug/l #	81
45) 1,2-Dichloropropane	9.27	63	1898	0.216	ug/l #	43
48) Methyl methacrylate	9.18	41	11477	1.998	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	9471	1.602	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	76387	5.838	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	14988	1.192	ug/l #	43
59) 2-Hexanone	10.77	43	194219	48.387	ug/l #	50
71) Bromoform	12.40	173	3322	0.573	ug/l #	1
74) N-amyl acetate	11.88	43	22418	2.835	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	227943	37.935	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7456	0.273	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	227943	106.669	ug/l #	15
95) Naphthalene	15.14	128	98	1.741	ug/l #	69

(#) = 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: VN053656.D

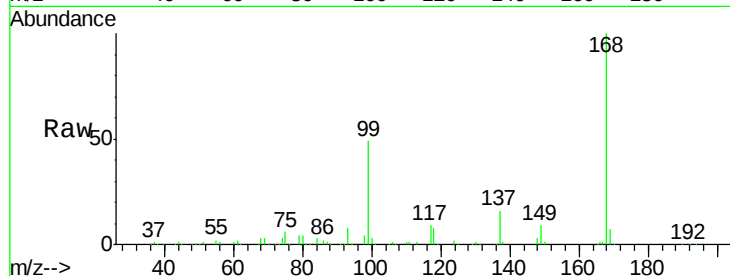
Acq: 7 Feb 2019 15:26

Tot Ion:168 Resp: 749383

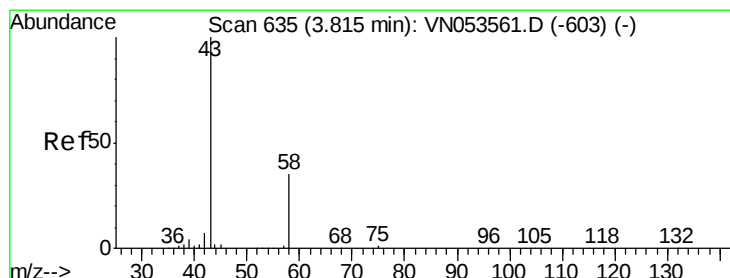
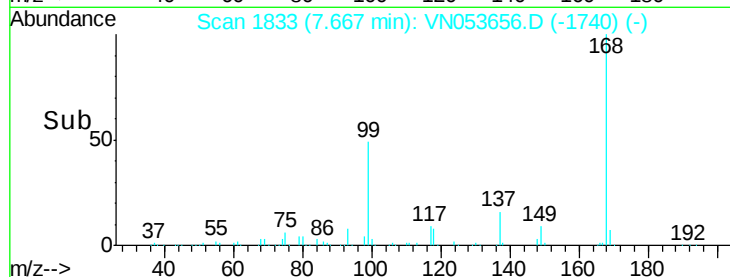
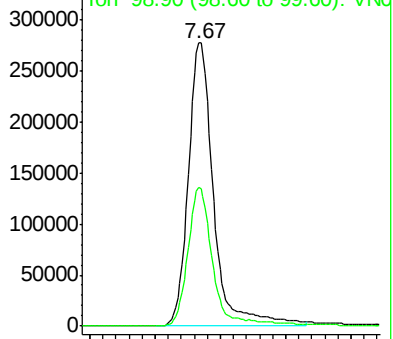
Ion Ratio Lower Upper

168 100

99 49.1 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053656.D (-1740) (-)



#16

Acetone

Concen: 86.457 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053656.D

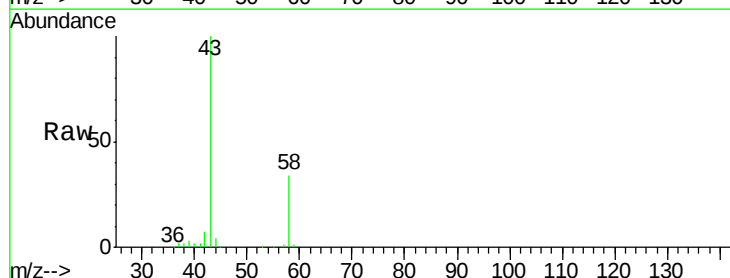
Acq: 7 Feb 2019 15:26

Tgt Ion: 43 Resp: 166718

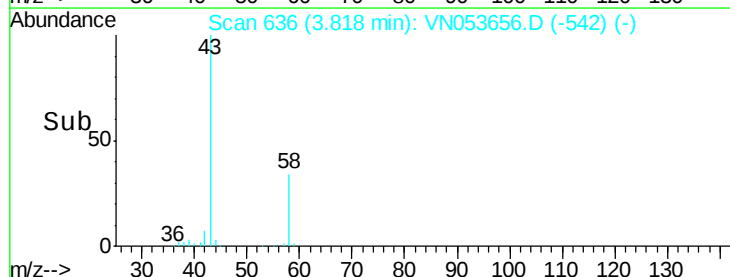
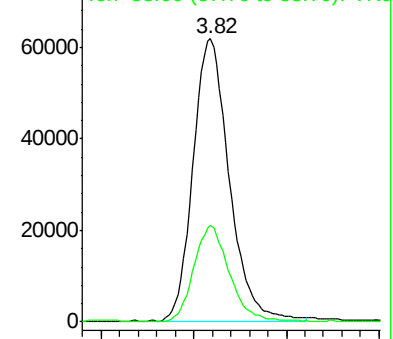
Ion Ratio Lower Upper

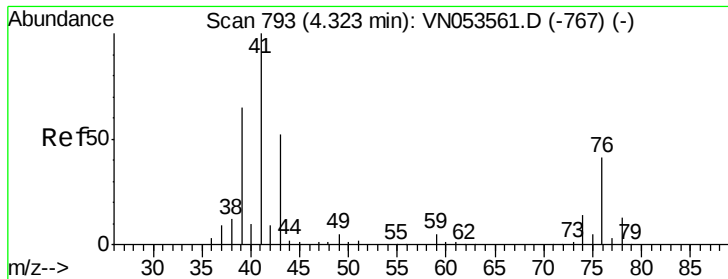
43 100

58 34.4 27.1 40.7



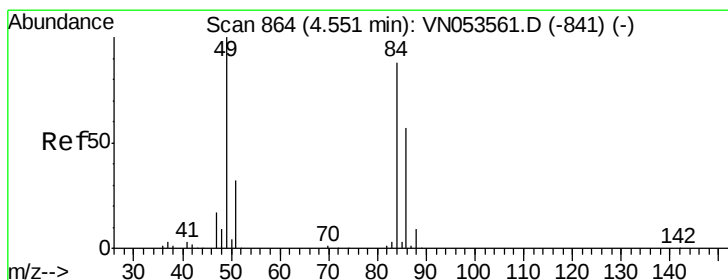
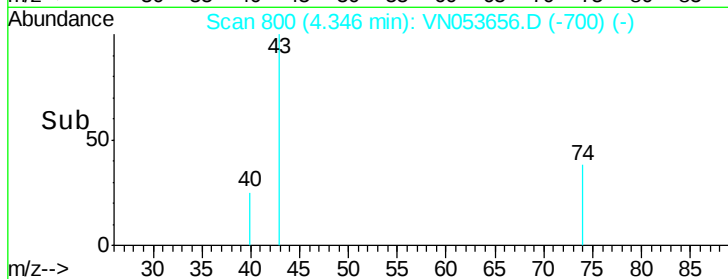
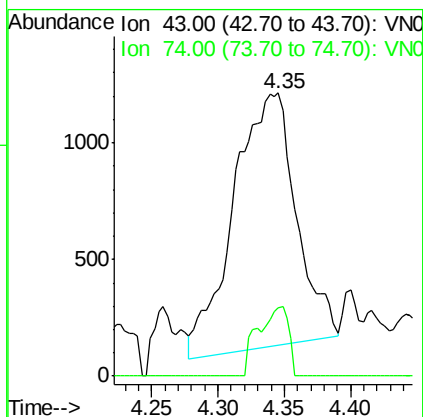
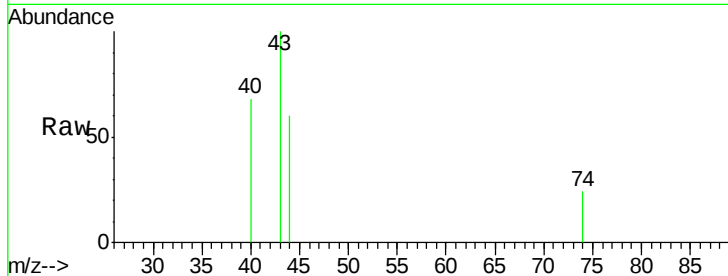
Abundance Ion 43.00 (42.70 to 43.70): VN053656.D (-542) (-)





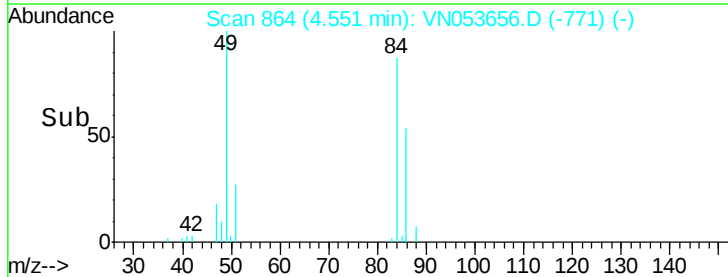
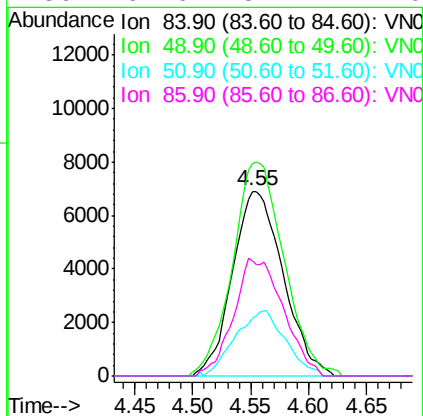
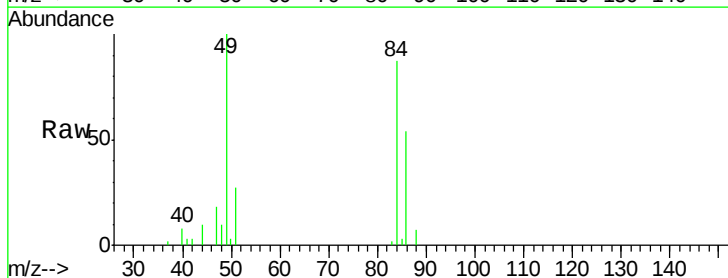
#18
Methyl Acetate
Concen: 0.628 ug/l
RT: 4.35 min Scan# 800
Delta R.T. 0.02 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

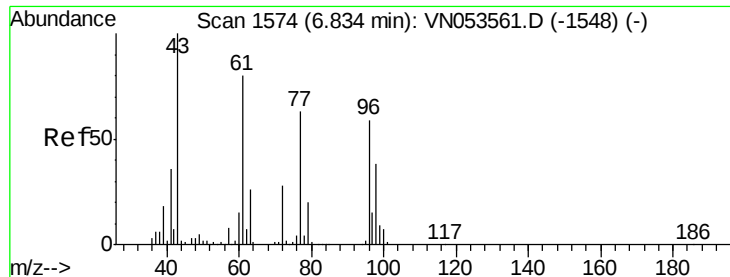
Tot Ion: 43 Resp: 3584
Ion Ratio Lower Upper
43 100
74 13.4 19.4 29.2#



#20
Methylene Chloride
Concen: 2.587 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

Tgt Ion: 84 Resp: 20929
Ion Ratio Lower Upper
84 100
49 115.0 94.3 141.5
51 31.0 29.4 44.2
86 62.6 51.4 77.0





#25

2-Butanone

Concen: 1.546 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN053656.D

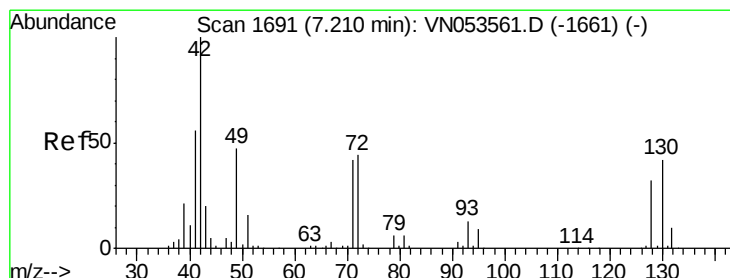
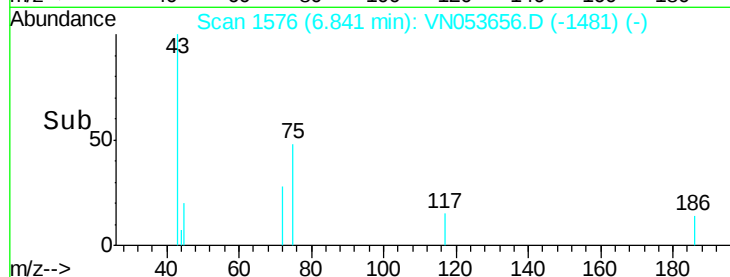
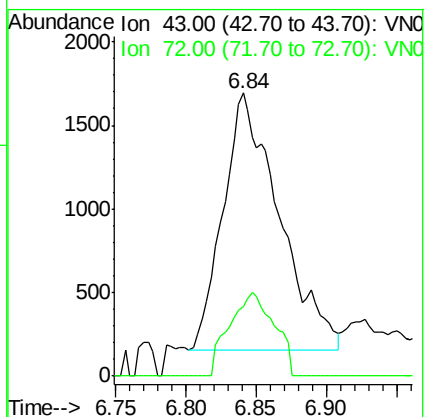
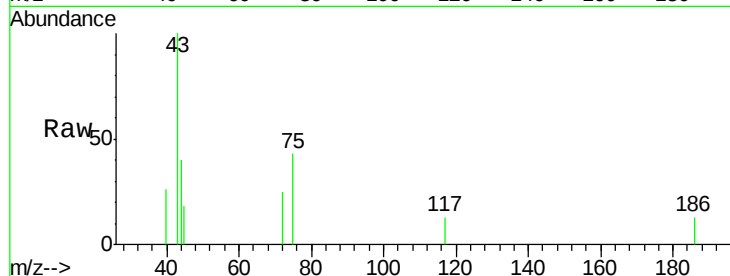
Acq: 7 Feb 2019 15:26

Tot Ion: 43 Resp: 4253

Ion Ratio Lower Upper

43 100

72 27.3 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.916 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

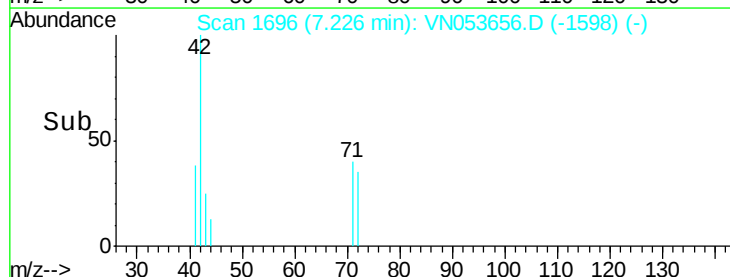
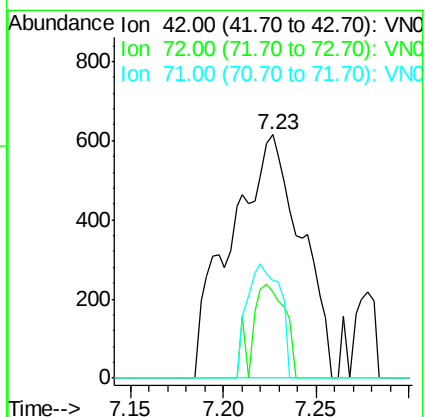
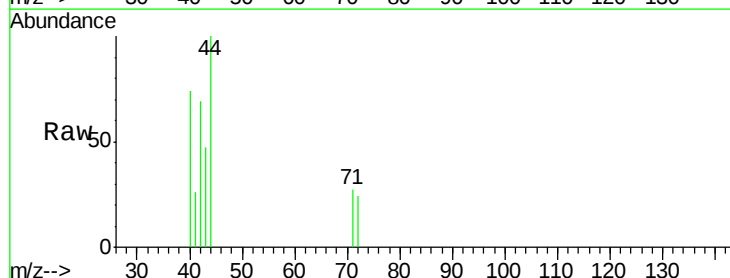
Tgt Ion: 42 Resp: 1617

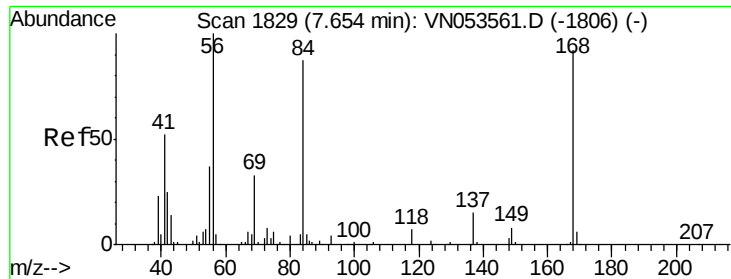
Ion Ratio Lower Upper

42 100

72 18.2 35.2 52.8#

71 22.3 33.0 49.4#





#31

Cyclohexane

Concen: 0.671 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

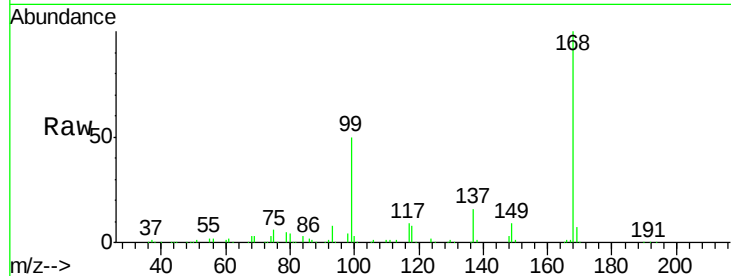
Tot Ion: 56 Resp: 10661

Ion Ratio Lower Upper

56 100

69 182.4 26.4 39.6#

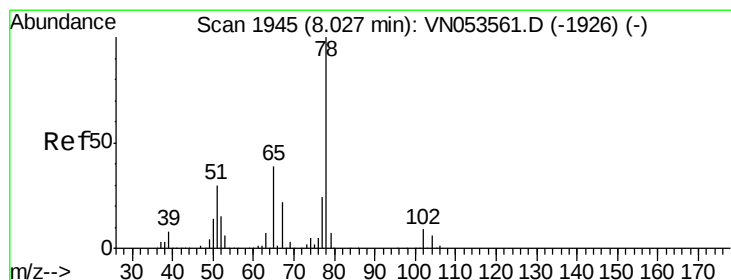
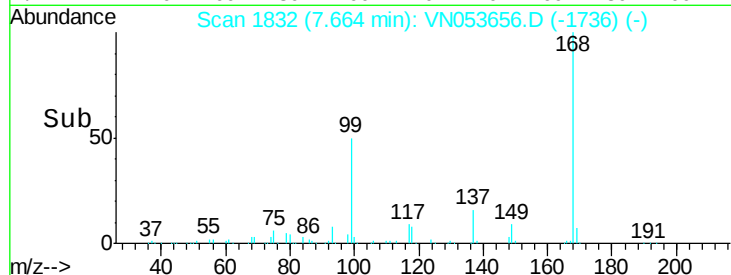
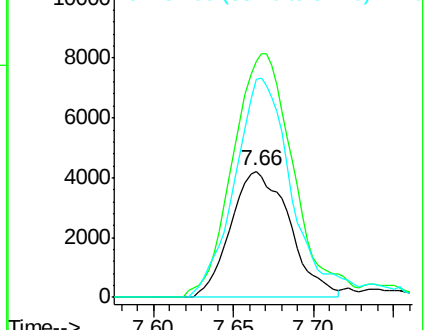
84 173.0 67.9 101.9#



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: VN053656.D

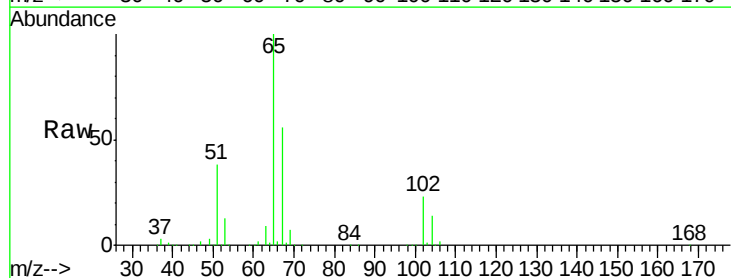
Acq: 7 Feb 2019 15:26

Tgt Ion: 65 Resp: 405109

Ion Ratio Lower Upper

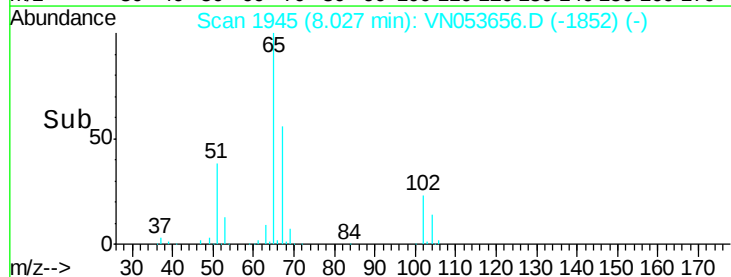
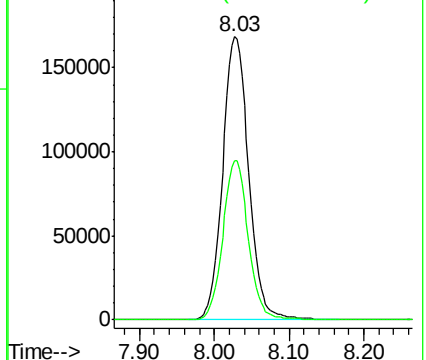
65 100

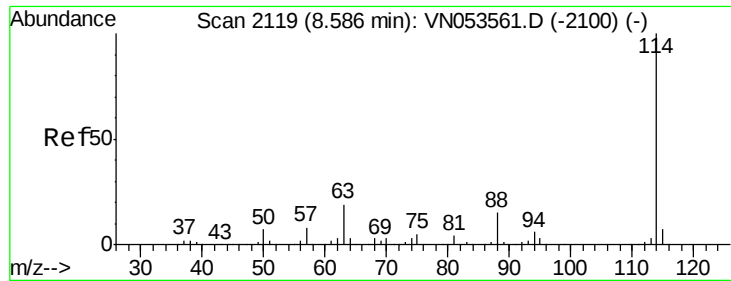
67 55.0 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

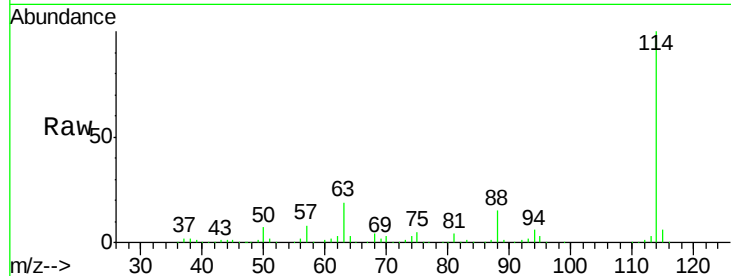




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

Tot Ion:114 Resp: 1237491

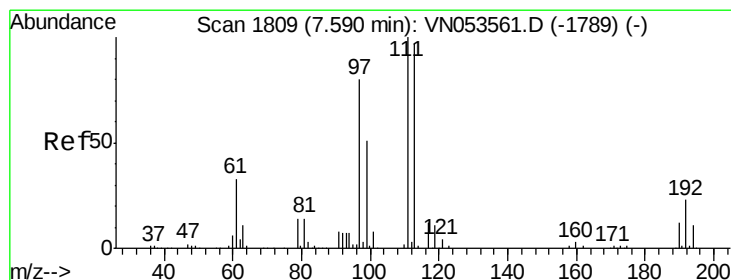
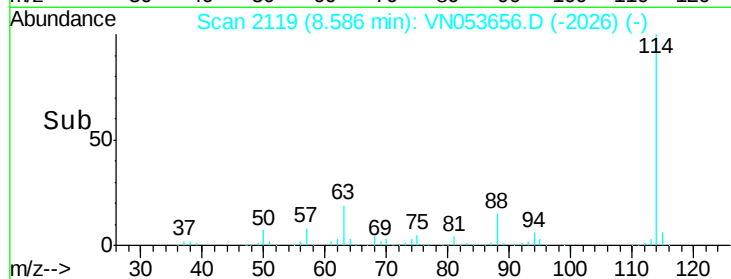
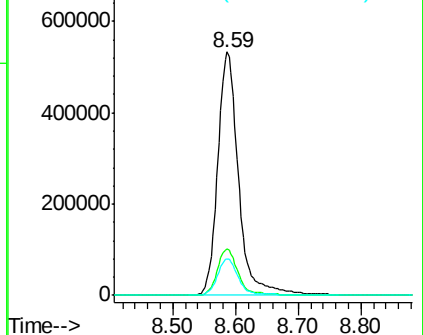
Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.6
88	15.1	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

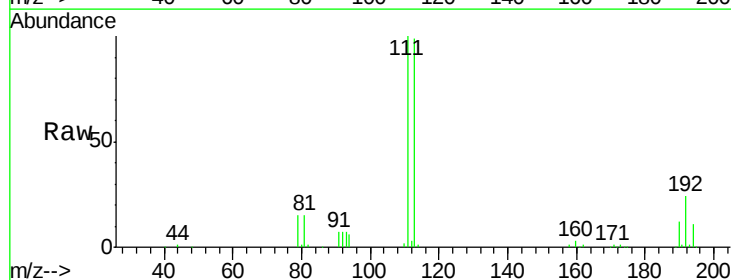
Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

Tgt Ion:113 Resp: 398313

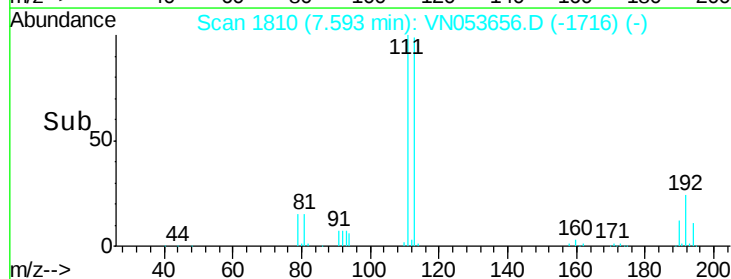
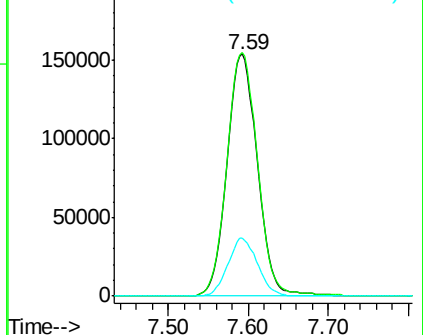
Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.1	121.7
192	23.2	18.2	27.2

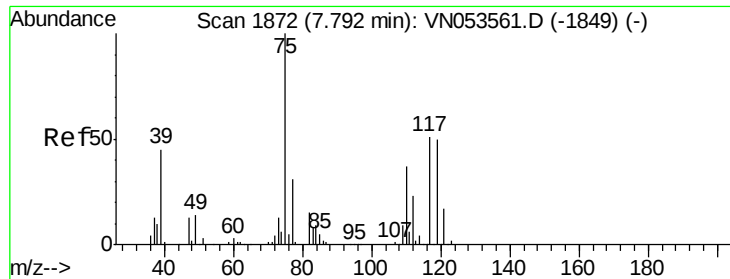


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

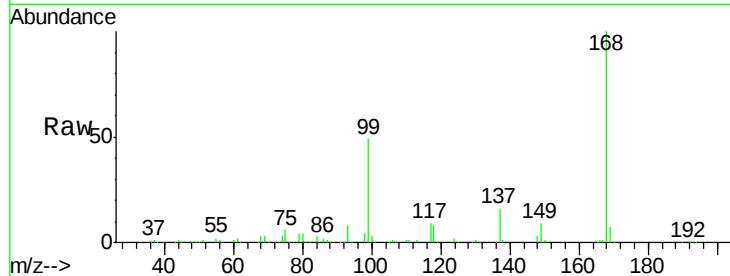
Ion 191.70 (191.40 to 192.40): V



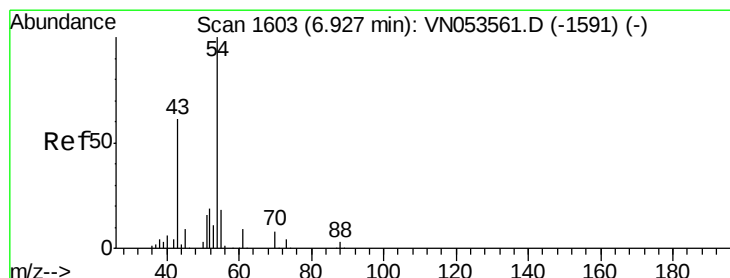
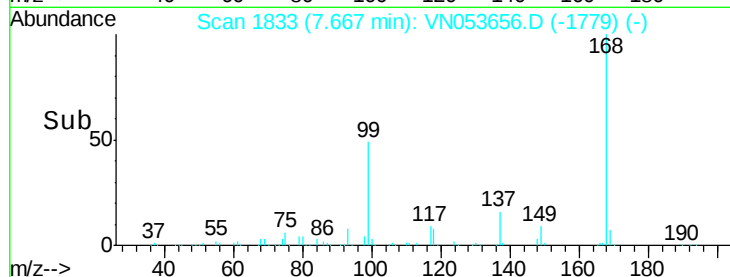
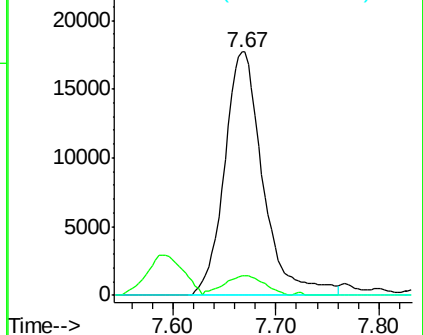


#36
 1,1-Dichloropropene
 Concen: 4.132 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.3#
77	0.0	25.1	37.7#

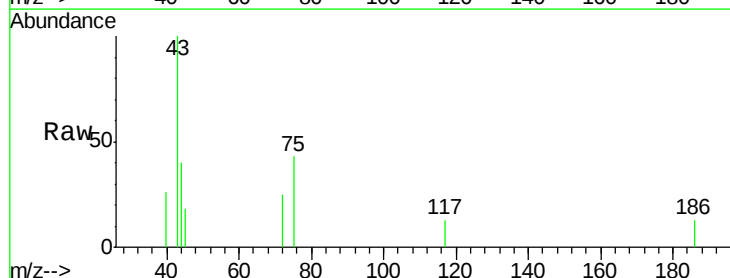


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

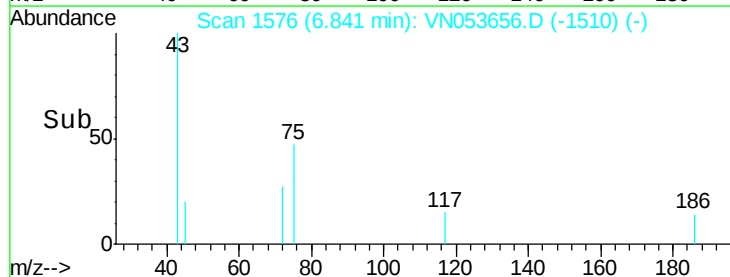
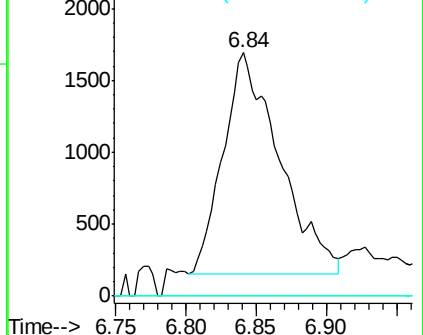


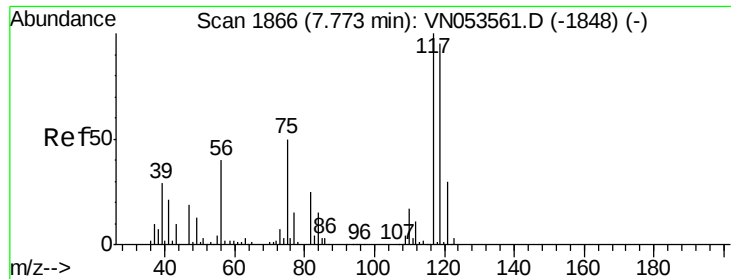
#37
 Ethyl Acetate
 Concen: 0.685 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.09 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	8.6	12.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.338 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

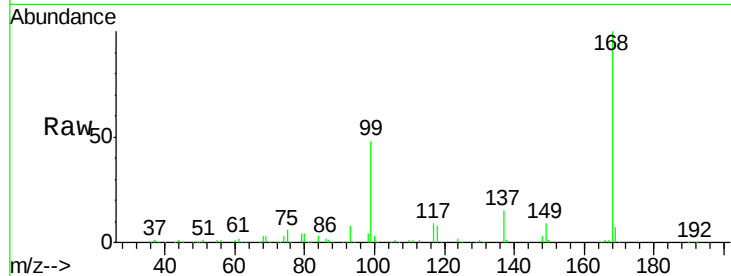
Tot Ion:117 Resp: 59992

Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

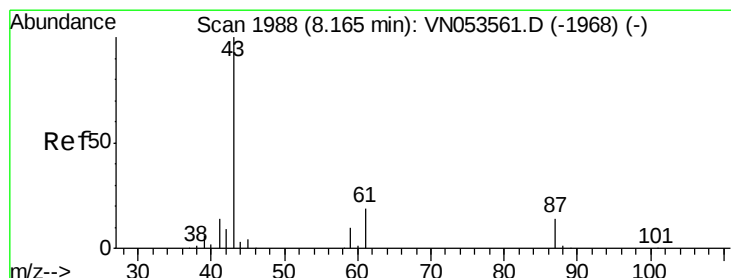
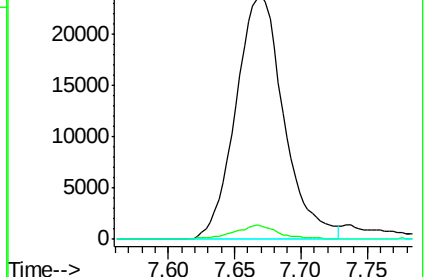
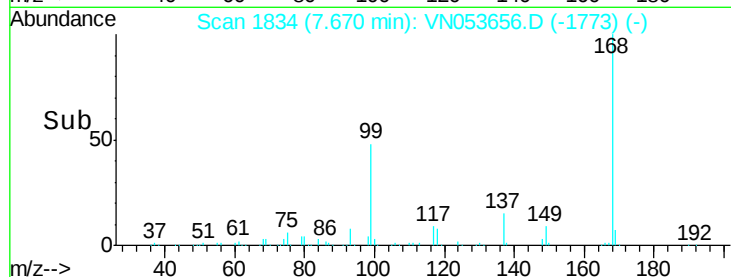
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.050 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

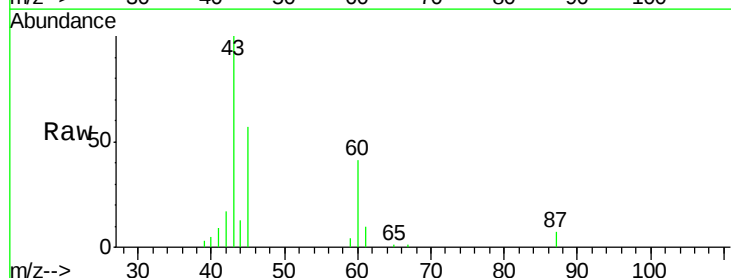
Tgt Ion: 43 Resp: 36693

Ion Ratio Lower Upper

43 100

61 16.7 23.9 35.9#

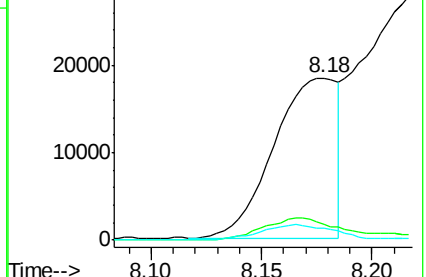
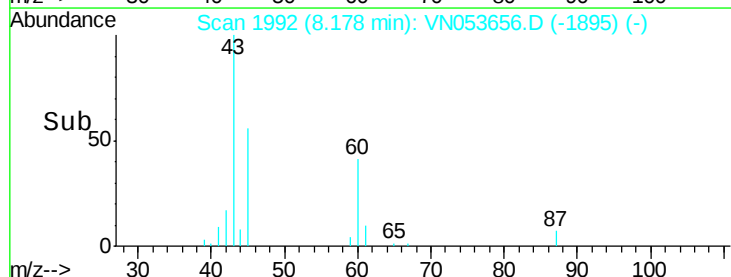
87 11.4 11.0 16.6

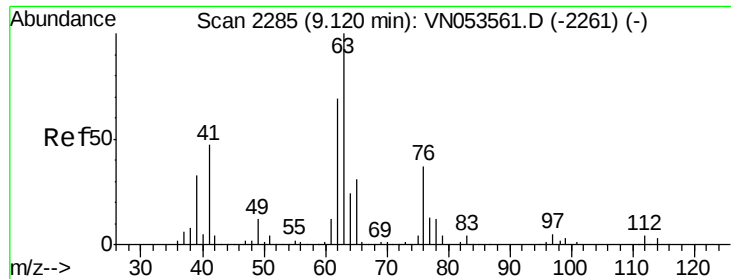


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

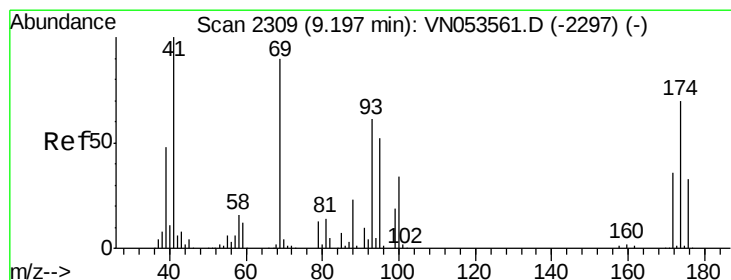
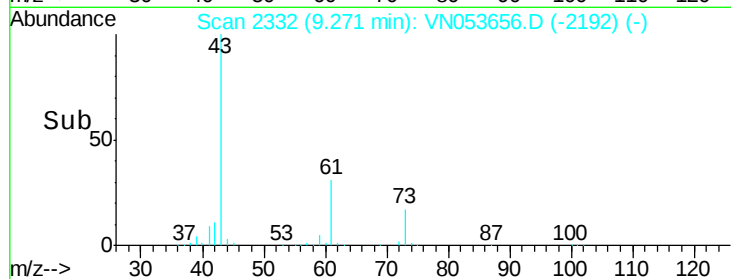
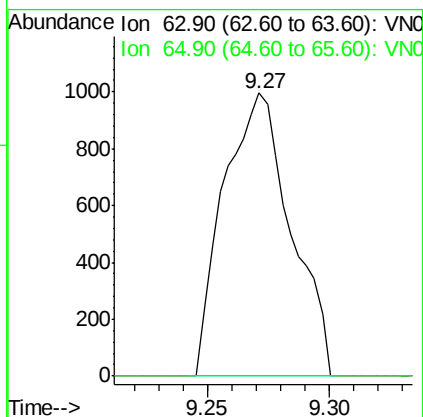
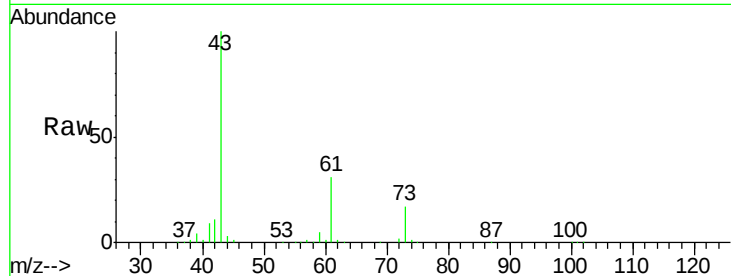
Ion 87.00 (86.70 to 87.70): VN0





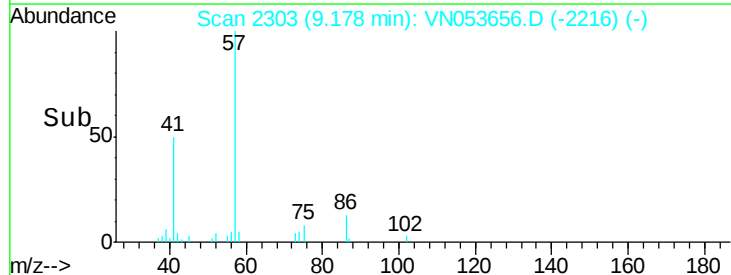
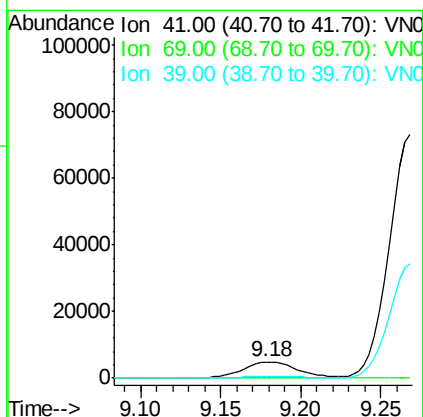
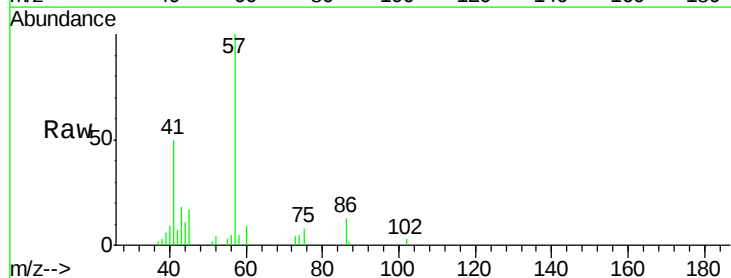
#45
 1,2-Dichloropropane
 Concen: 0.216 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

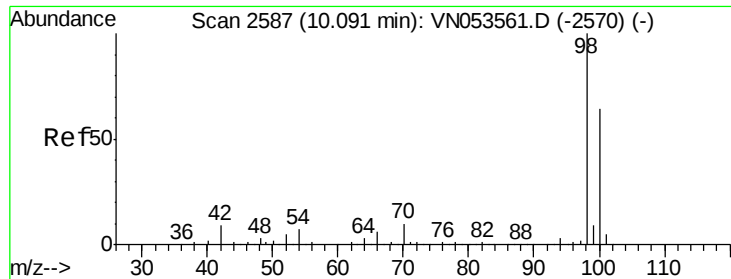
Tot Ion: 63 Resp: 1898
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.998 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053656.D
 Acq: 7 Feb 2019 15:26

Tgt Ion: 41 Resp: 11477
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053656.D

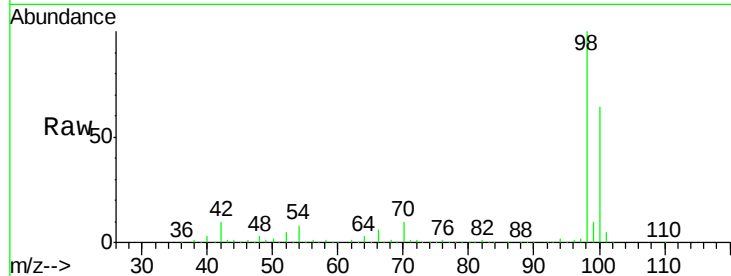
Acq: 7 Feb 2019 15:26

Tot Ion: 98 Resp: 1494793

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

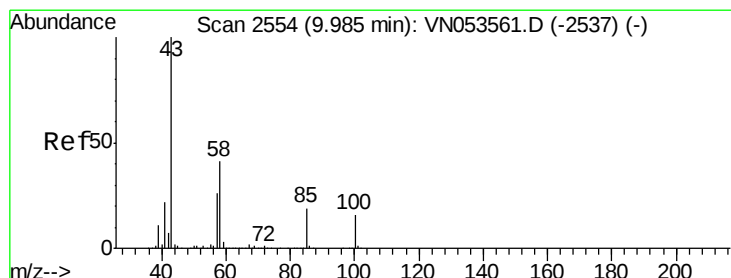
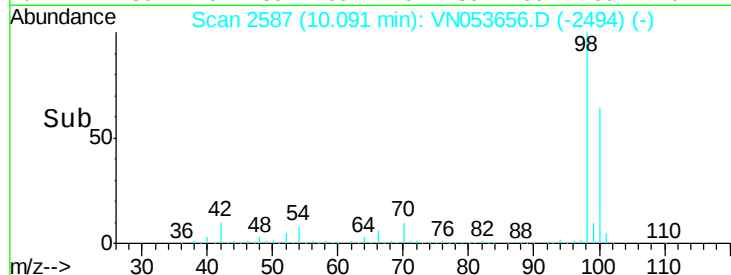
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.602 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053656.D

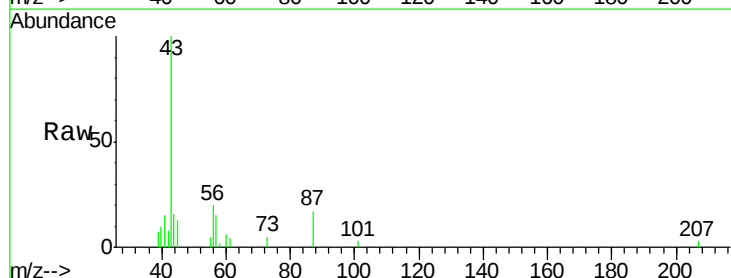
Acq: 7 Feb 2019 15:26

Tgt Ion: 43 Resp: 9471

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

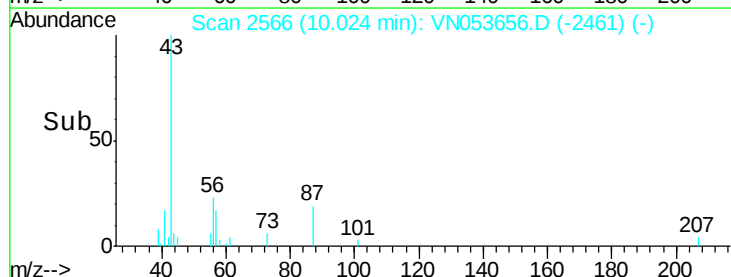
6000

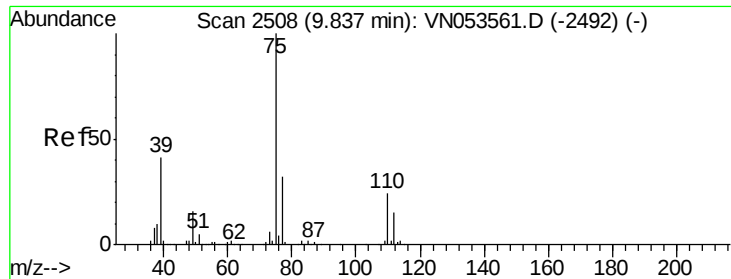
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.838 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

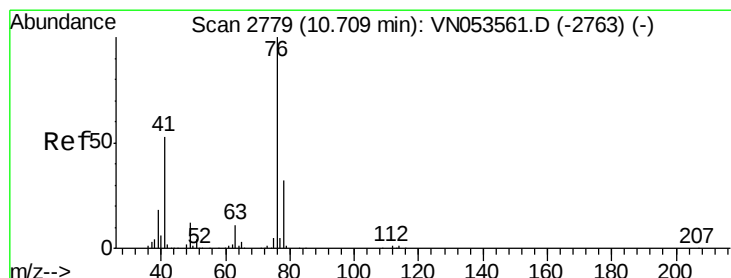
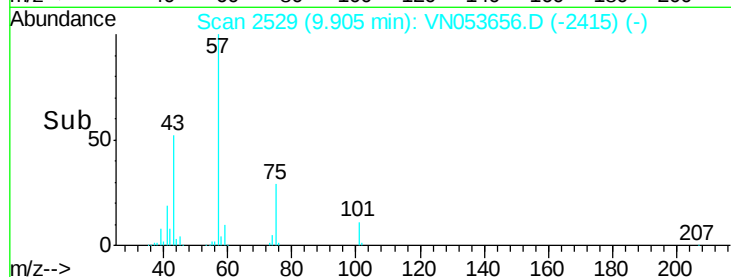
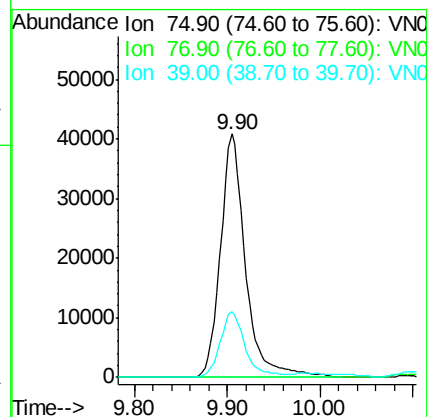
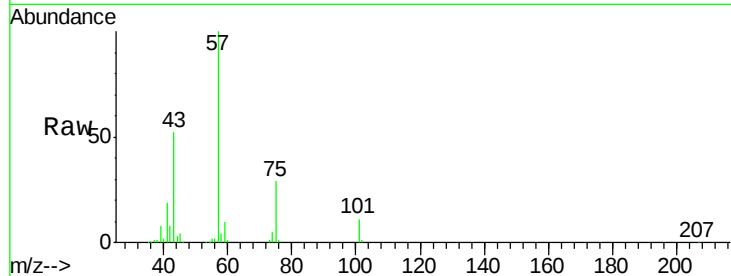
Tot Ion: 75 Resp: 76387

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 26.9 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.192 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053656.D

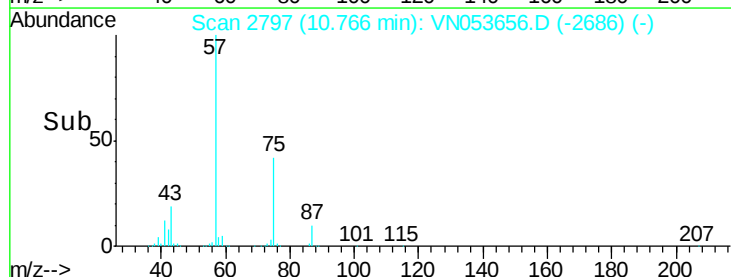
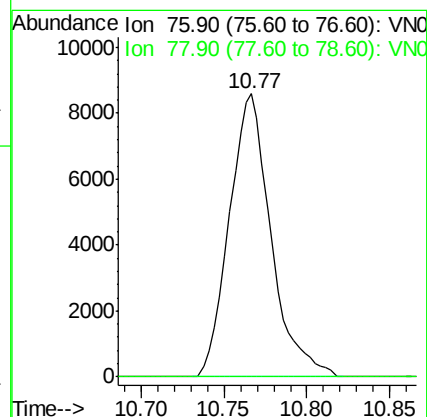
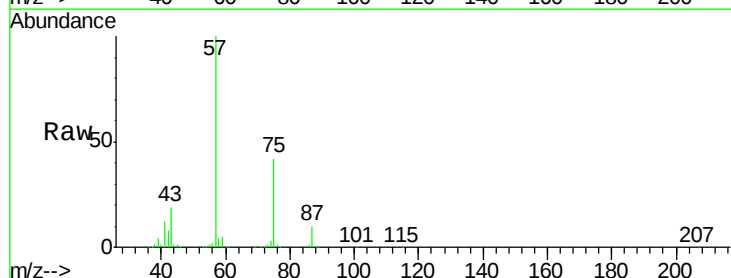
Acq: 7 Feb 2019 15:26

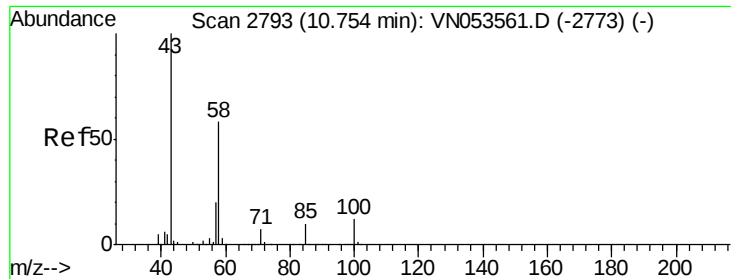
Tgt Ion: 76 Resp: 14988

Ion Ratio Lower Upper

76 100

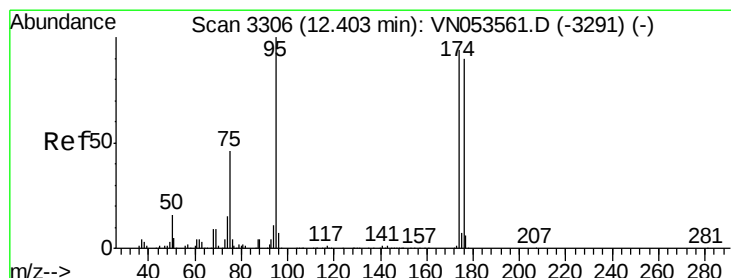
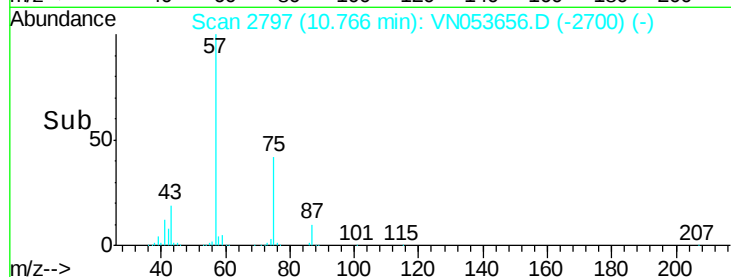
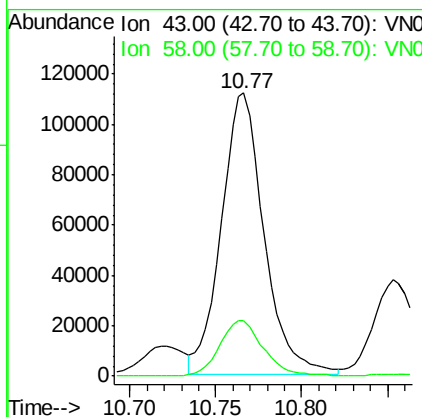
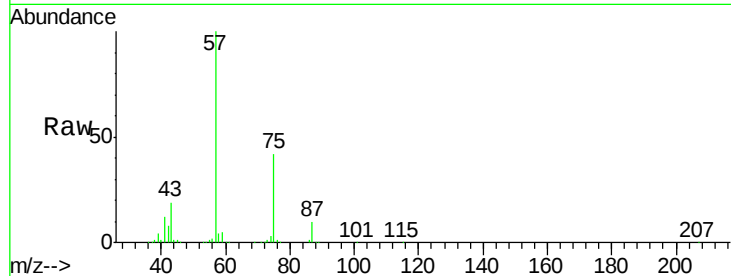
78 0.0 25.6 38.4#





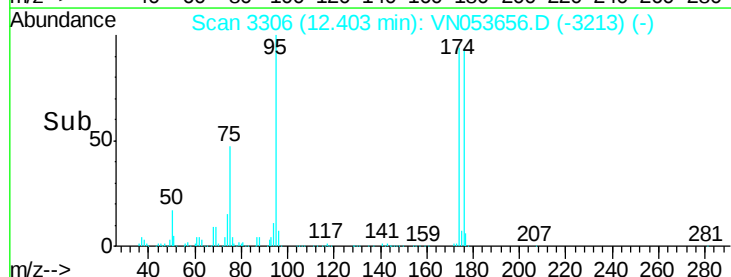
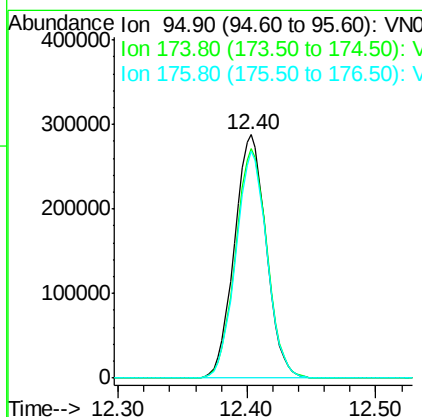
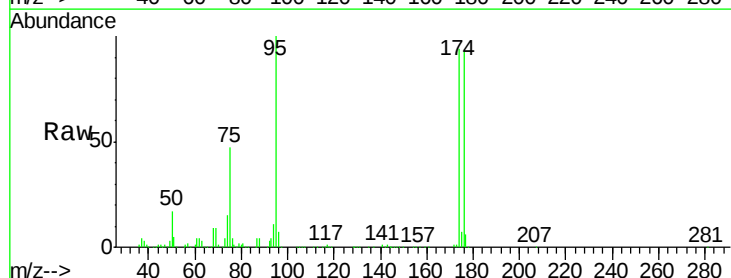
#59
2-Hexanone
Concen: 48.387 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

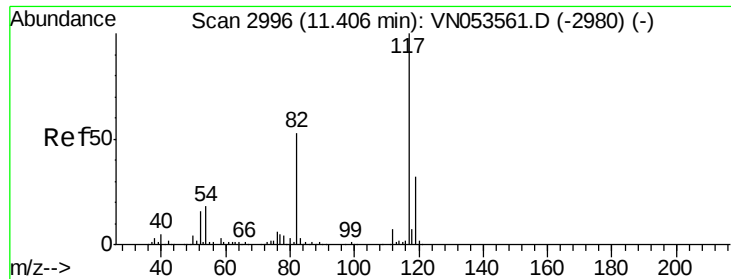
Tot Ion: 43 Resp: 194219
Ion Ratio Lower Upper
43 100
58 20.5 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

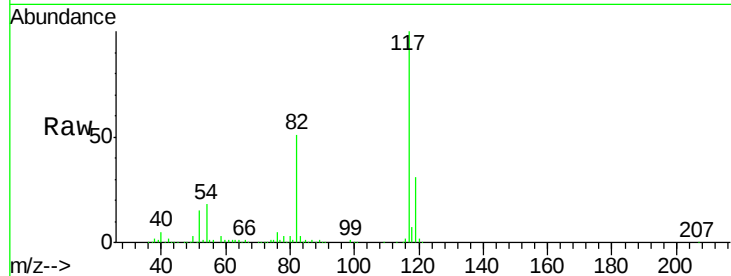
Tgt Ion: 95 Resp: 492000
Ion Ratio Lower Upper
95 100
174 94.0 0.0 183.2
176 91.5 0.0 177.4



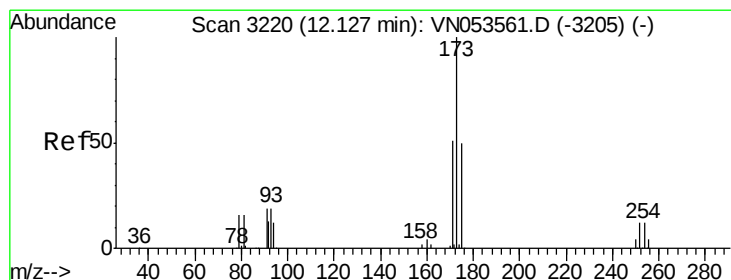
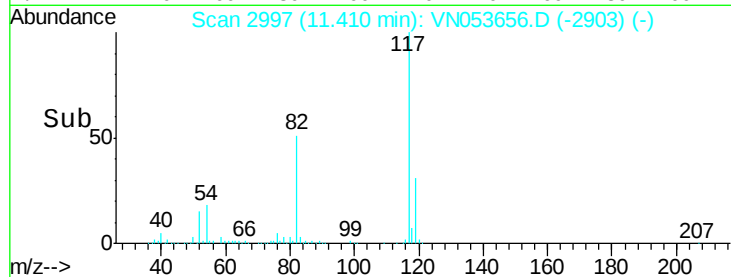
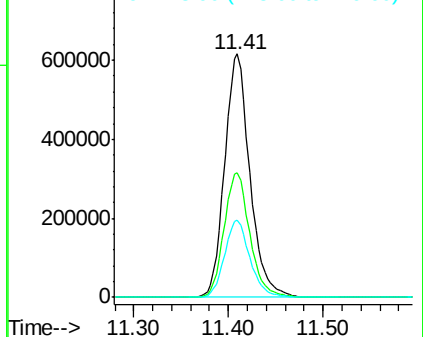


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

Tot Ion:117 Resp: 1140554
Ion Ratio Lower Upper
117 100
82 51.1 42.9 64.3
119 31.5 26.0 39.0

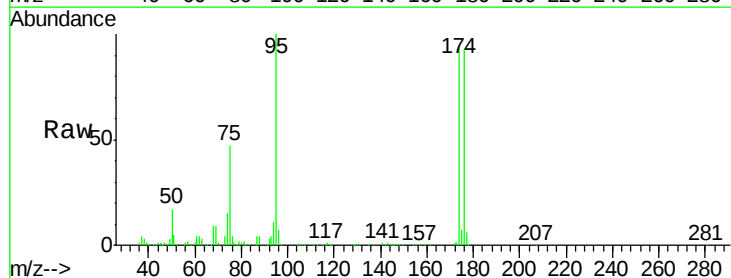


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

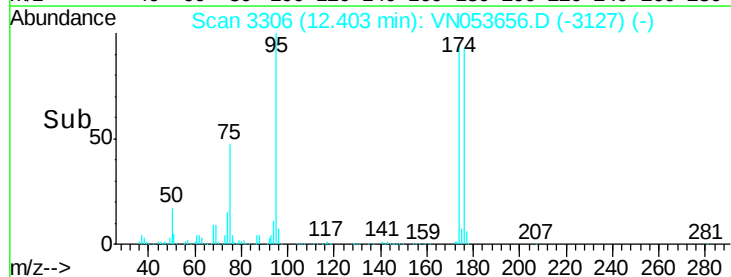
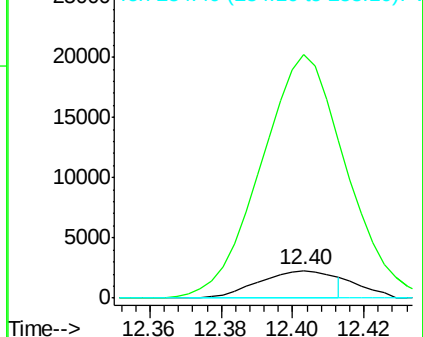


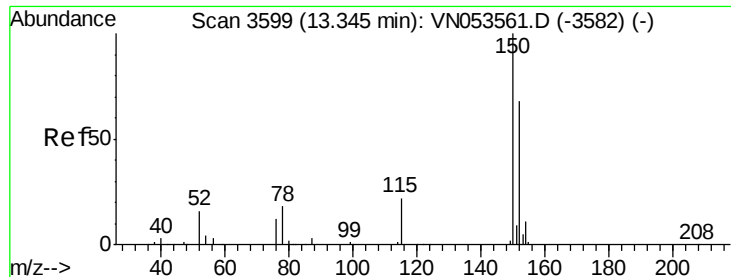
#71
Bromoform
Concen: 0.573 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

Tgt Ion:173 Resp: 3322
Ion Ratio Lower Upper
173 100
175 842.7 24.6 74.0#
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: VN053656.D

Acq: 7 Feb 2019 15:26

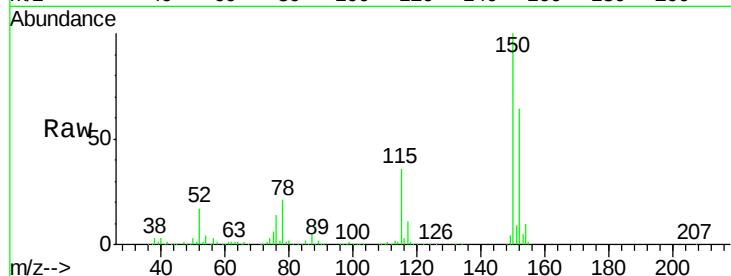
Tot Ion:152 Resp: 467817

Ion Ratio Lower Upper

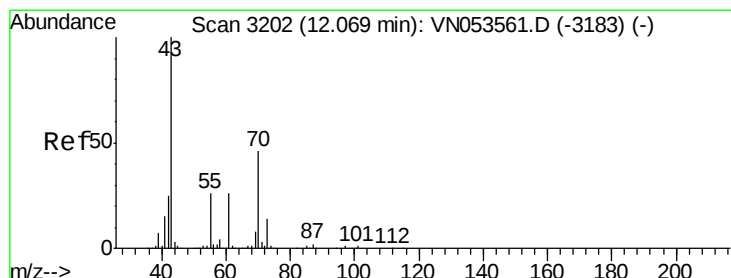
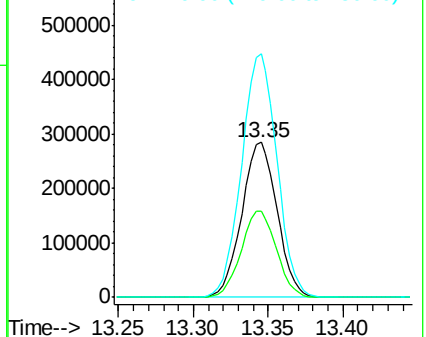
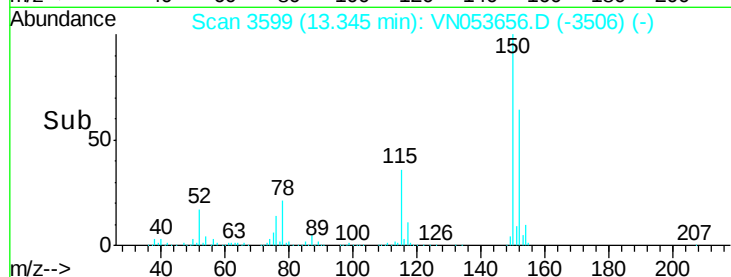
152 100

115 55.7 27.8 83.4

150 157.7 0.0 349.0



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



#74

N-ethyl acetate

Concen: 2.835 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

Tgt Ion: 43 Resp: 22418

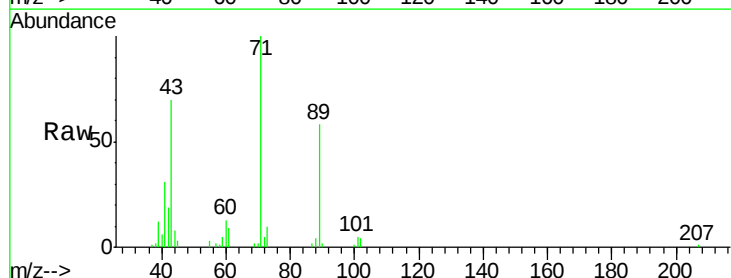
Ion Ratio Lower Upper

43 100

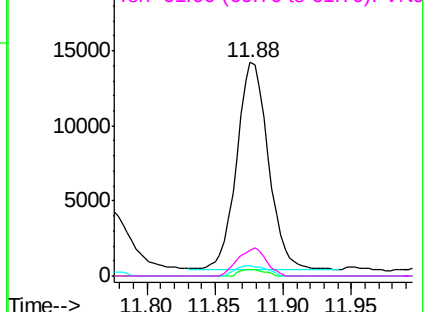
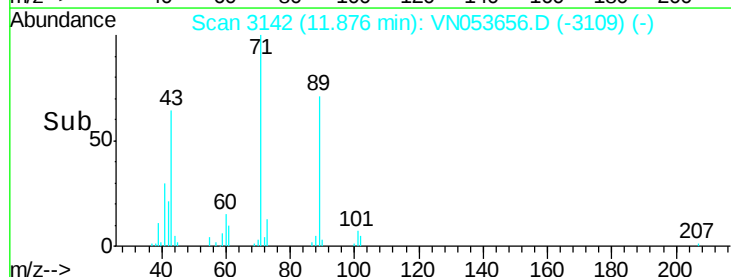
70 2.5 35.4 53.2#

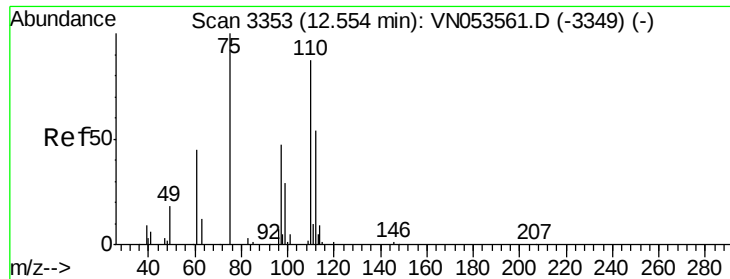
55 4.8 20.9 31.3#

61 11.9 20.5 30.7#



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

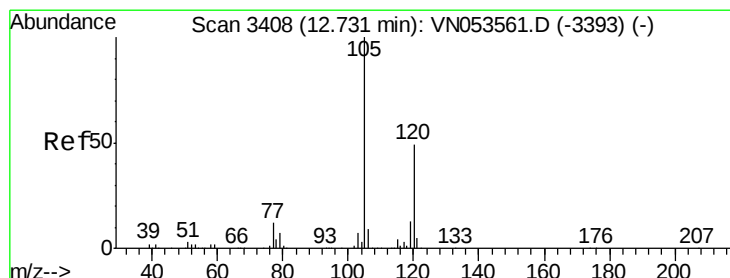
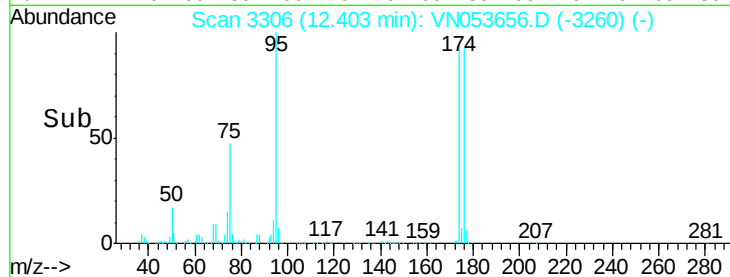
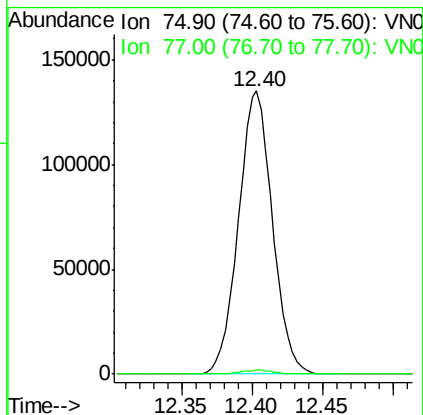
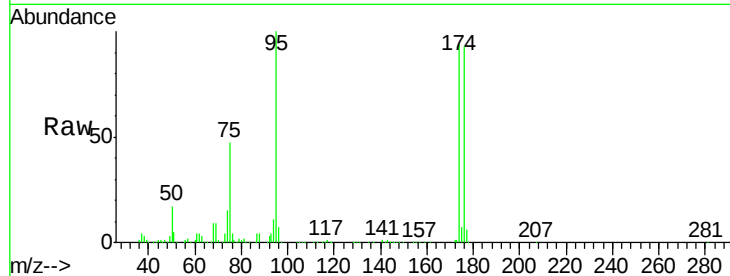




#76

1,2,3-Trichloropropane
Concen: 37.935 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

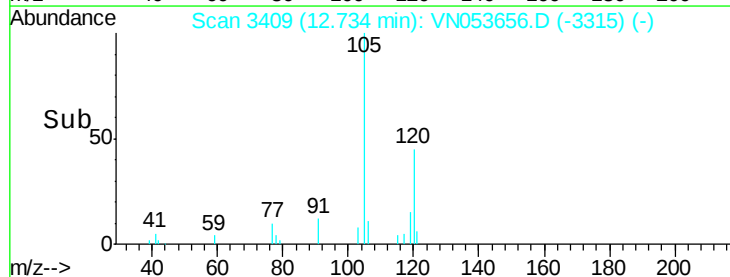
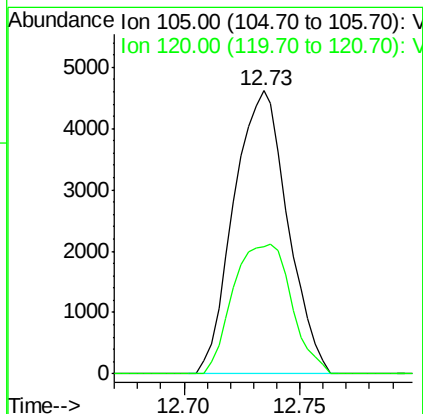
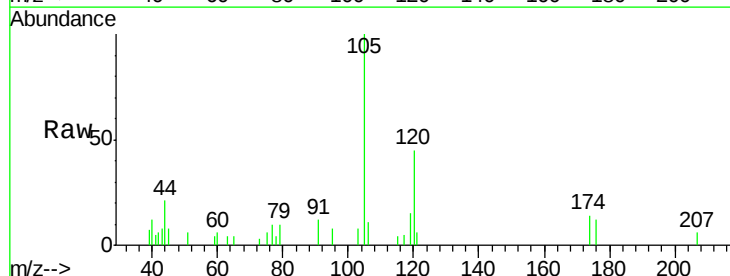
Tot Ion: 75 Resp: 227943
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

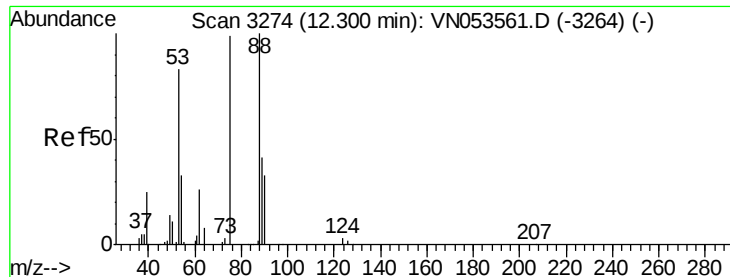


#80

1,3,5-Trimethylbenzene
Concen: 0.273 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053656.D
Acq: 7 Feb 2019 15:26

Tgt Ion: 105 Resp: 7456
Ion Ratio Lower Upper
105 100
120 49.4 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 106.669 ug/l

RT: 12.40 min Scan# 3306

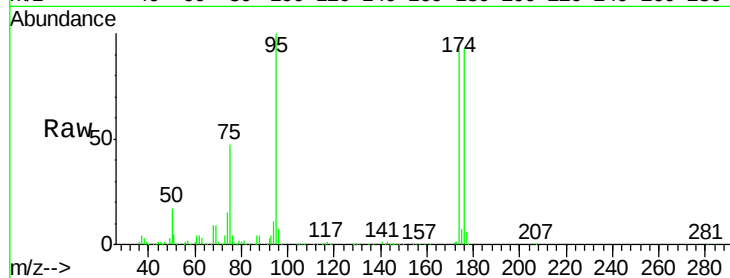
Delta R.T. 0.10 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

Tot Ion: 75 Resp: 227943

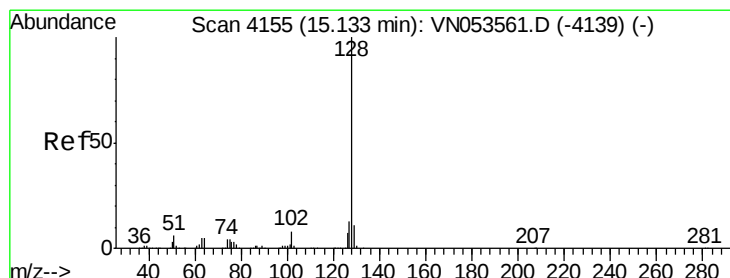
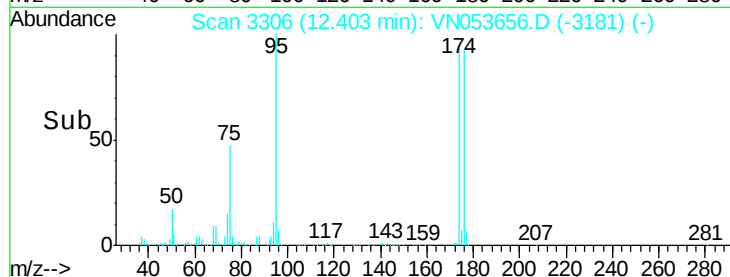
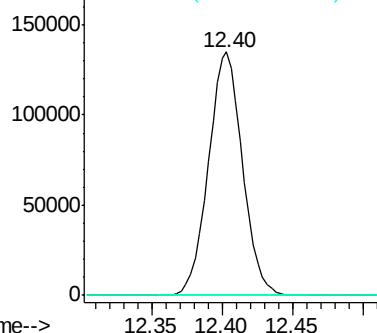
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053656.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN053656.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN053656.D (-3306) (-)



#95

Naphthalene

Concen: 1.741 ug/l

RT: 15.14 min Scan# 4156

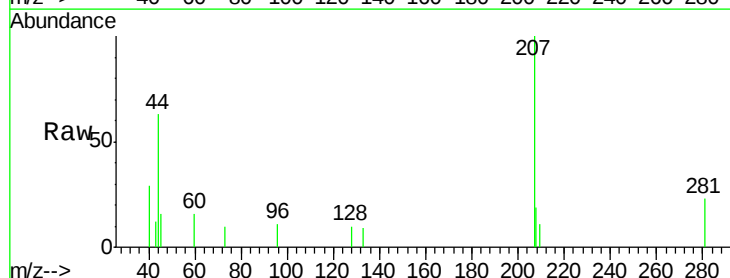
Delta R.T. 0.00 min

Lab File: VN053656.D

Acq: 7 Feb 2019 15:26

Tgt Ion: 128 Resp: 98

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): VN053656.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN053656.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN053656.D (-4156) (-)

