

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053446.D
 Acq On : 17 Jan 2019 20:26
 Operator : JC/SP
 Sample : PB116439ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Quant Time: Jan 18 00:13:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	932483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1454423	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1380659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	584391	50.00	ug/l	0.00

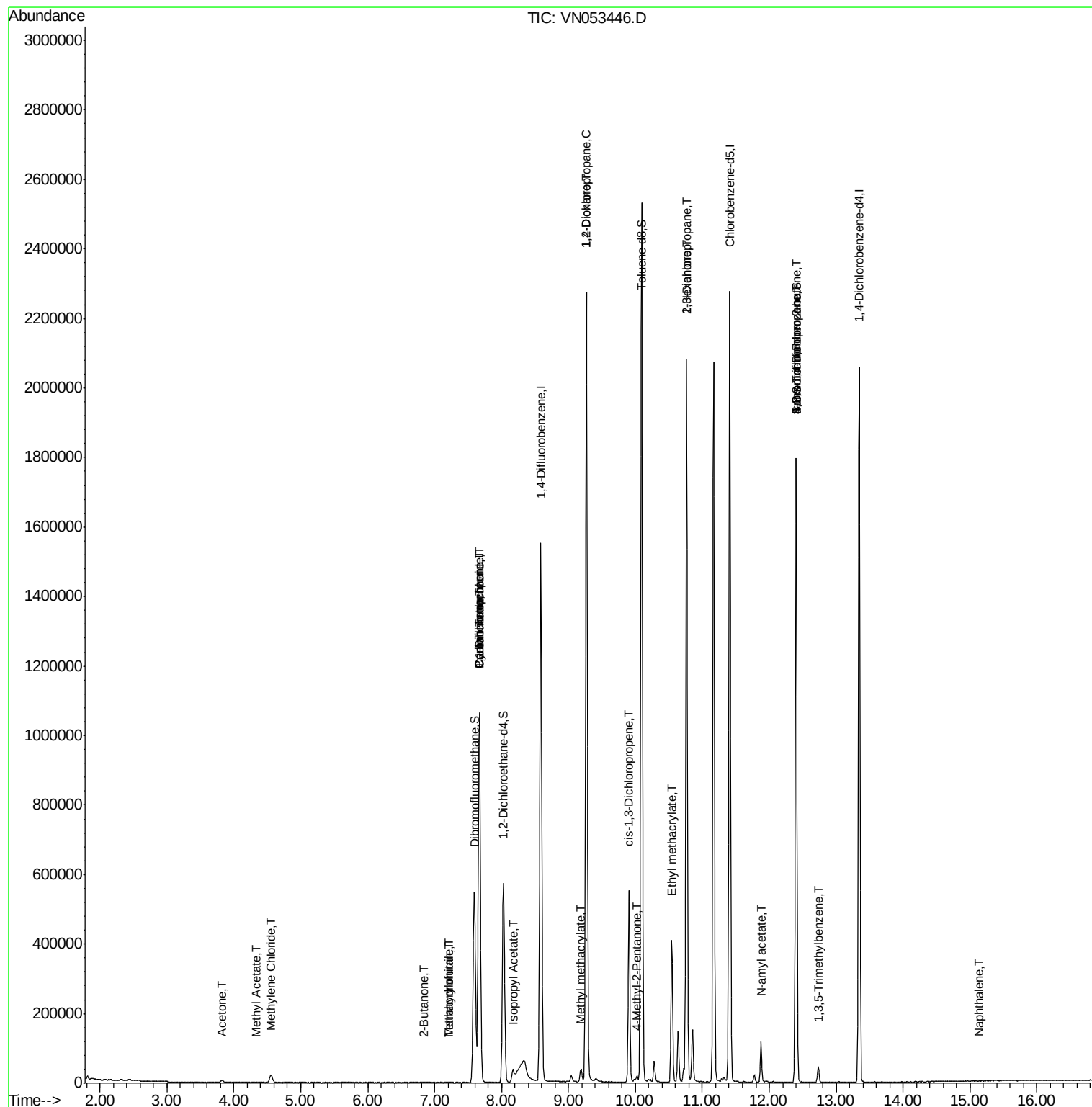
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	475220	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
35) Dibromofluoromethane	7.59	113	420272	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
50) Toluene-d8	10.09	98	1827939	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
62) 4-Bromofluorobenzene	12.40	95	615191	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	

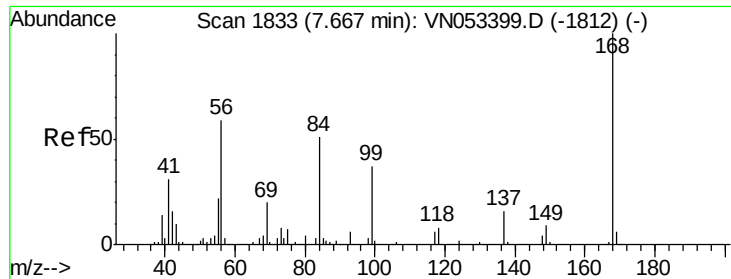
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11946	5.524	ug/l	90
18) Methyl Acetate	4.33	43	3793	0.521	ug/l #	79
20) Methylene Chloride	4.55	84	16087	1.629	ug/l	93
25) 2-Butanone	6.84	43	1134	0.340	ug/l	92
29) Tetrahydrofuran	7.22	42	1824	0.841	ug/l #	43
31) Cyclohexane	7.67	56	14959	0.703	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	59529	4.494	ug/l #	48
38) Carbon Tetrachloride	7.67	117	79058	6.304	ug/l #	16
41) Methacrylonitrile	7.22	41	930	0.870	ug/l #	25
43) Isopropyl Acetate	8.17	43	47592	3.473	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	2533	0.238	ug/l #	43
48) Methyl methacrylate	9.18	41	13121	1.855	ug/l #	12
49) 1,4-Dioxane	9.28	88	372	5.384	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	16232	2.170	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	102884	6.722	ug/l #	63
56) Ethyl methacrylate	10.54	69	1582	2.182	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21809	1.463	ug/l #	43
59) 2-Hexanone	10.76	43	288260	54.896	ug/l #	49
71) Bromoform	12.40	173	4346	0.621	ug/l #	1
74) N-amyl acetate	11.88	43	33521	2.938	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	285398	37.059	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	24429	0.702	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	285398	91.569	ug/l #	15
95) Naphthalene	15.13	128	259	3.956	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053446.D

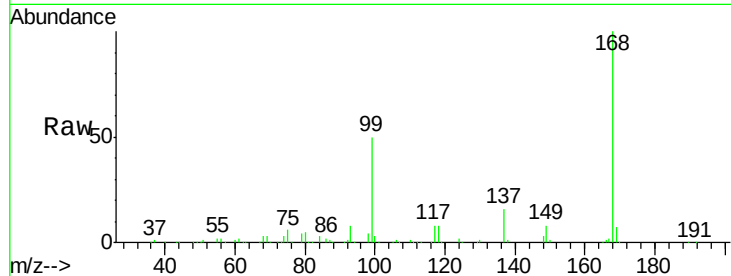
Acq: 17 Jan 2019 20:26

Tot Ion:168 Resp: 932483

Ion Ratio Lower Upper

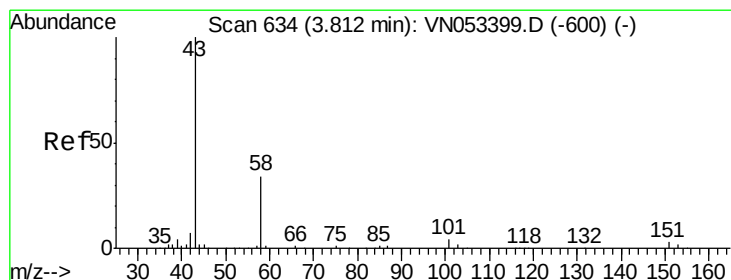
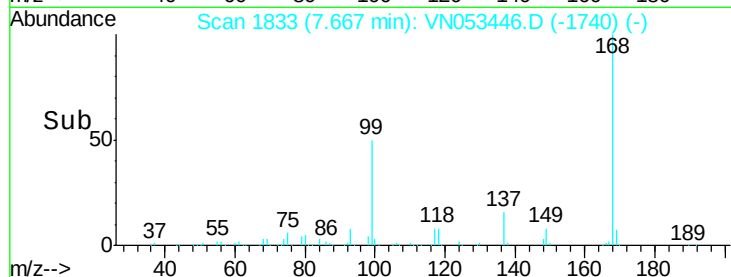
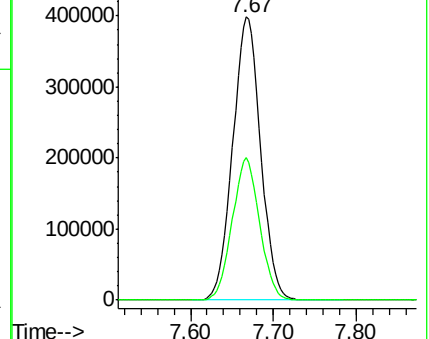
168 100

99 50.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.524 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053446.D

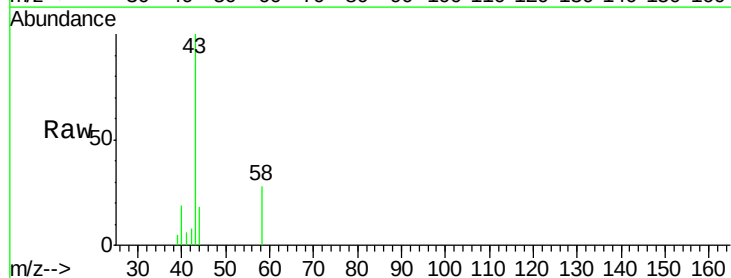
Acq: 17 Jan 2019 20:26

Tgt Ion: 43 Resp: 11946

Ion Ratio Lower Upper

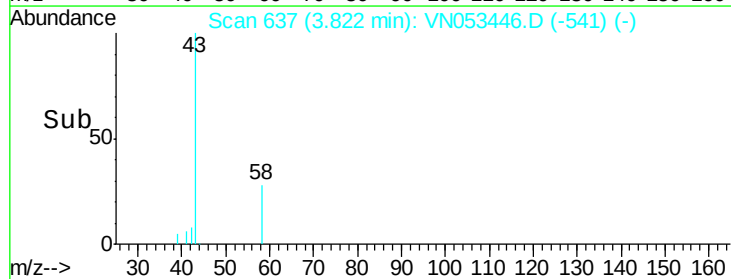
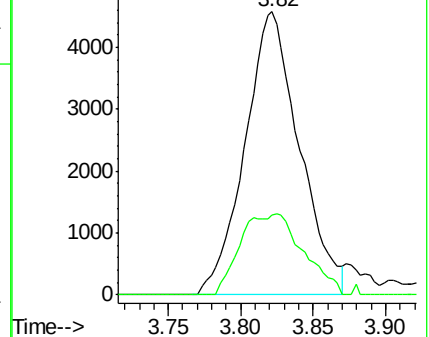
43 100

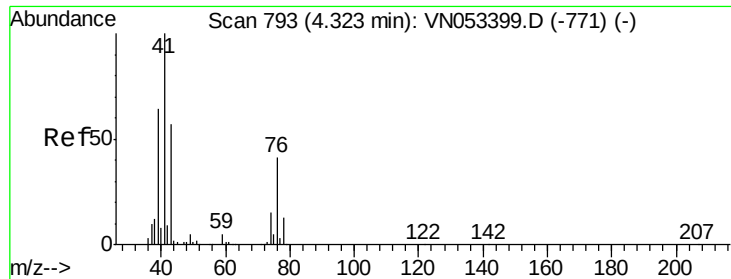
58 28.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

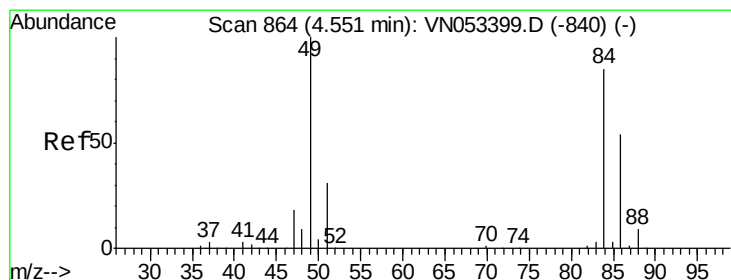
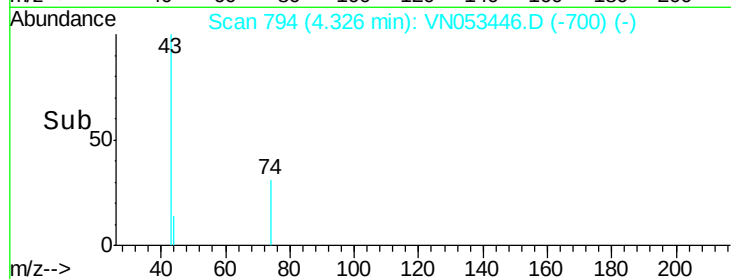
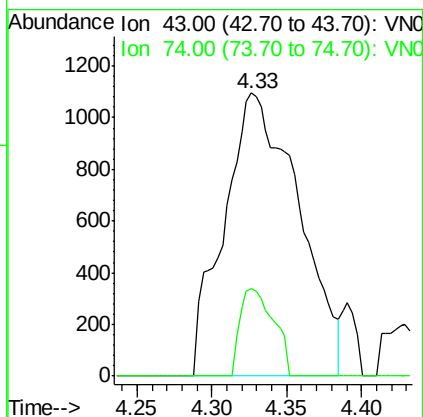
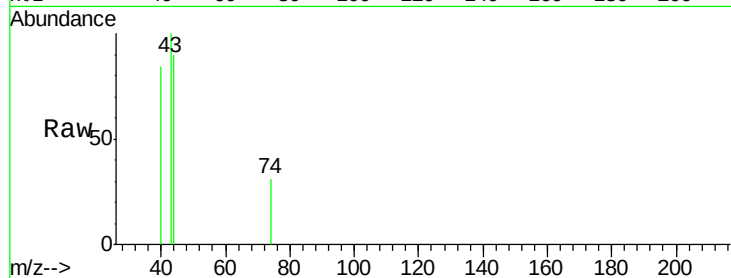
Ion 58.00 (57.70 to 58.70): VNO





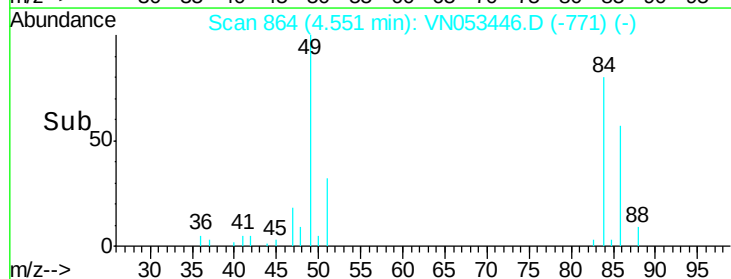
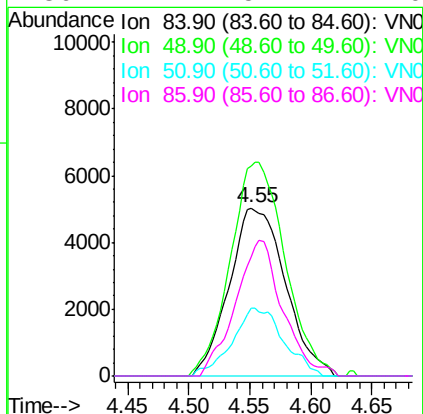
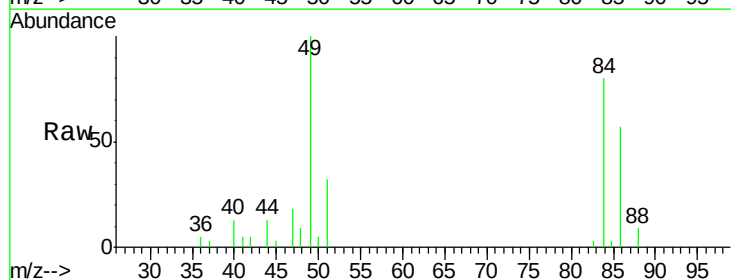
#18
Methyl Acetate
Concen: 0.521 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

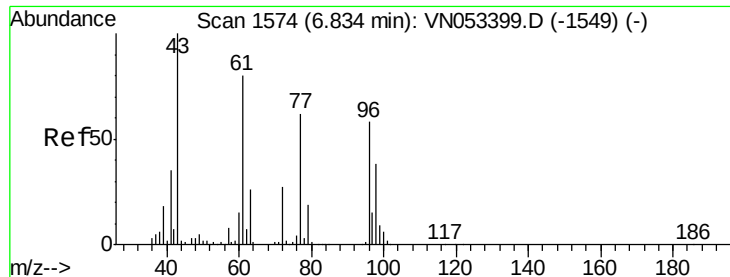
Tot Ion: 43 Resp: 3793
Ion Ratio Lower Upper
43 100
74 14.0 19.4 29.2#



#20
Methylene Chloride
Concen: 1.629 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

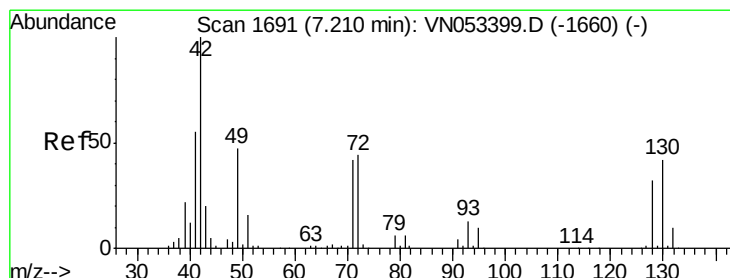
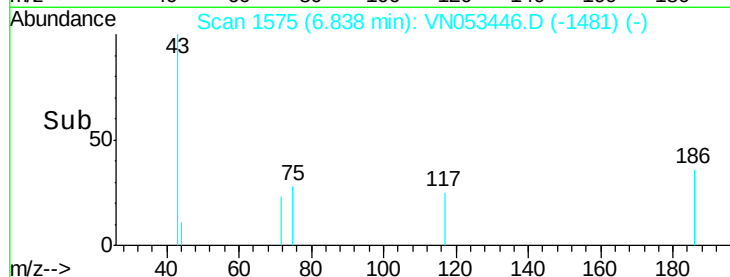
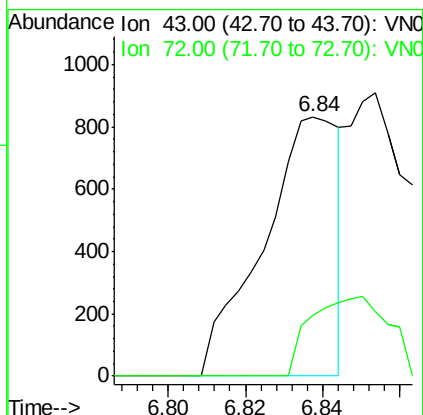
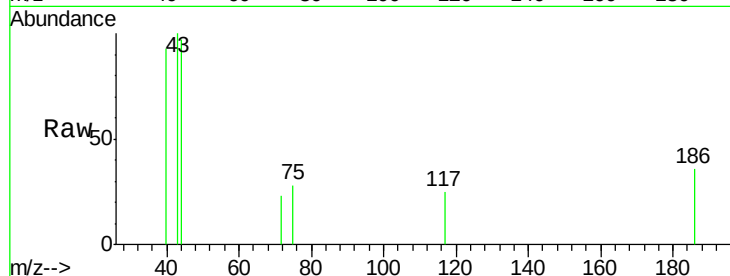
Tgt Ion: 84 Resp: 16087
Ion Ratio Lower Upper
84 100
49 125.2 94.3 141.5
51 40.2 29.4 44.2
86 71.2 51.4 77.0





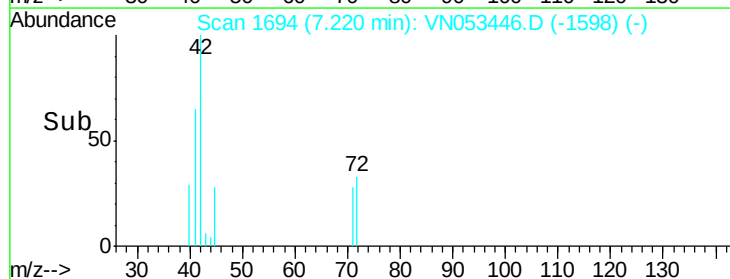
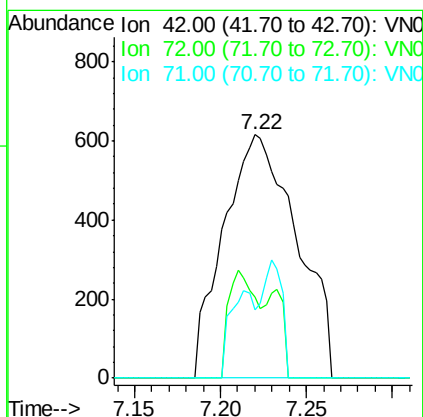
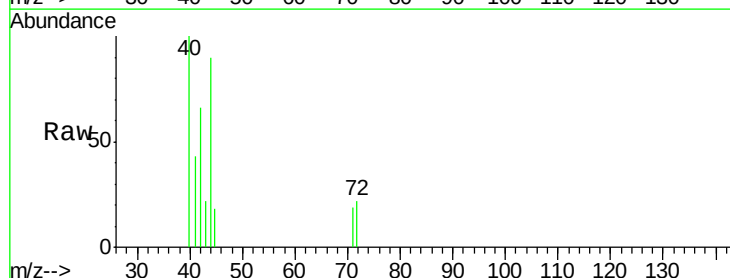
#25
2-Butanone
Concen: 0.340 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

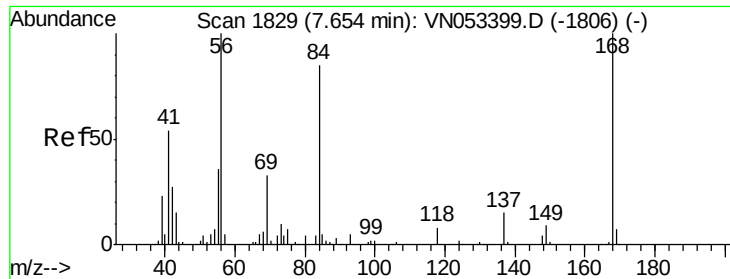
Tot Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
72 23.3 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.841 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tgt Ion: 42 Resp: 1824
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 13.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.703 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053446.D

Acq: 17 Jan 2019 20:26

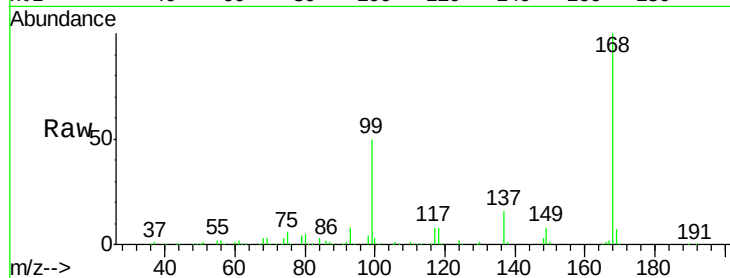
Tot Ion: 56 Resp: 14959

Ion Ratio Lower Upper

56 100

69 180.4 26.4 39.6#

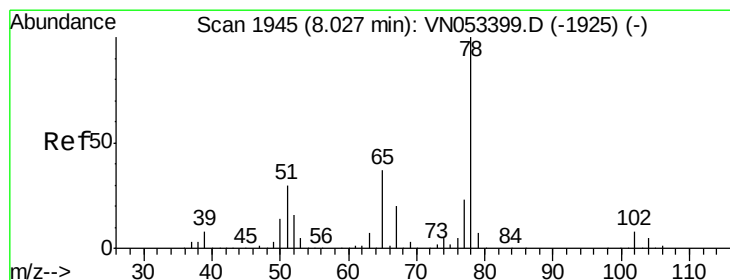
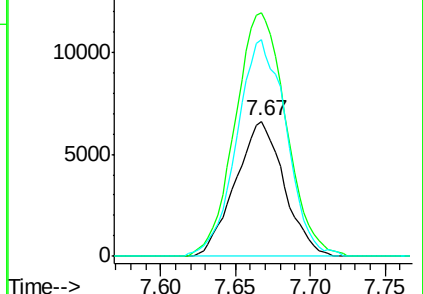
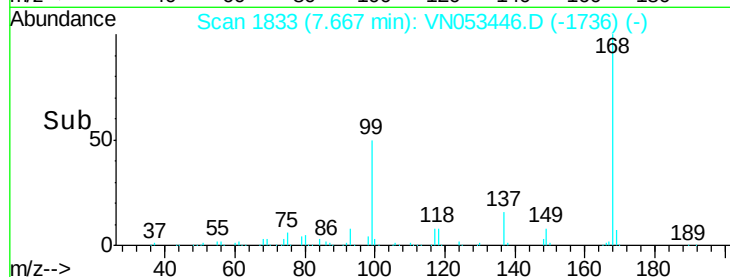
84 157.9 67.9 101.9#



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: VN053446.D

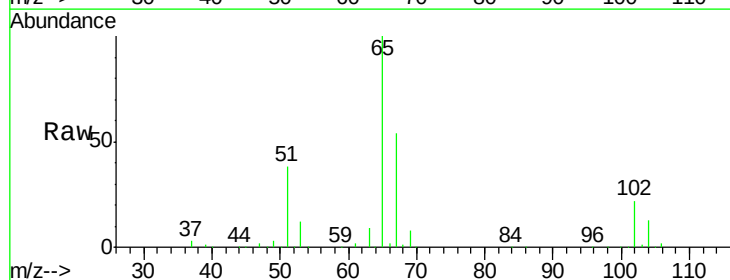
Acq: 17 Jan 2019 20:26

Tgt Ion: 65 Resp: 475220

Ion Ratio Lower Upper

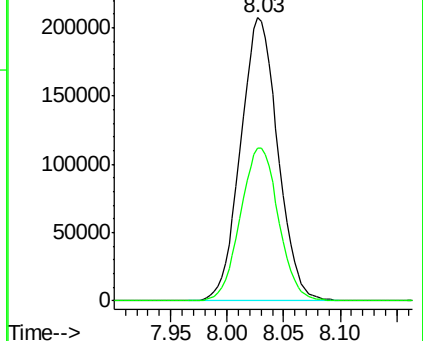
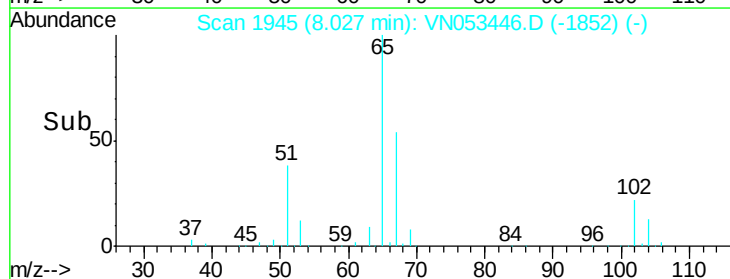
65 100

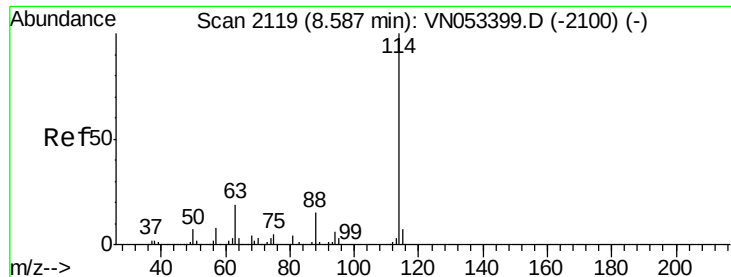
67 55.3 0.0 111.2



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: VN053446.D

Acq: 17 Jan 2019 20:26

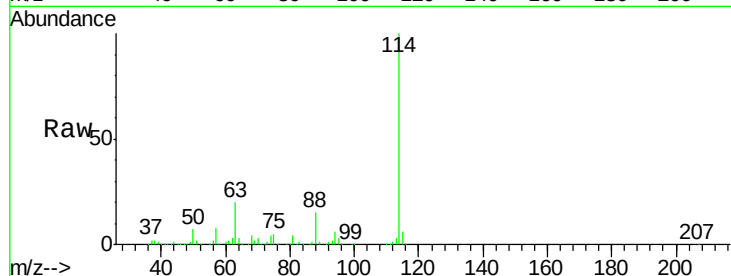
Tot Ion:114 Resp: 1454423

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.6

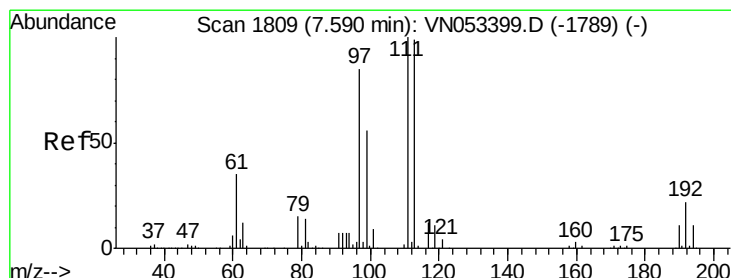
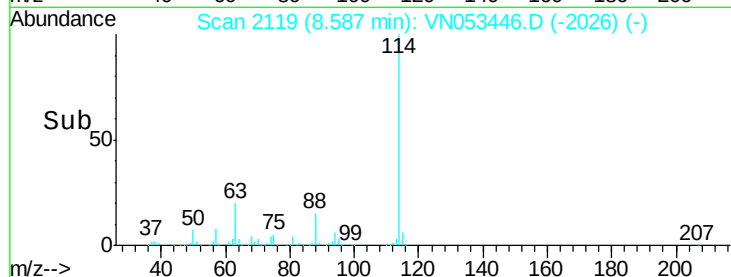
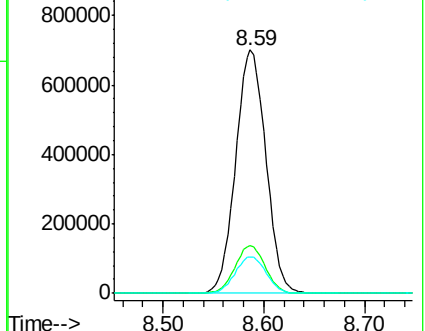
88 15.0 0.0 30.4



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: VN053446.D

Acq: 17 Jan 2019 20:26

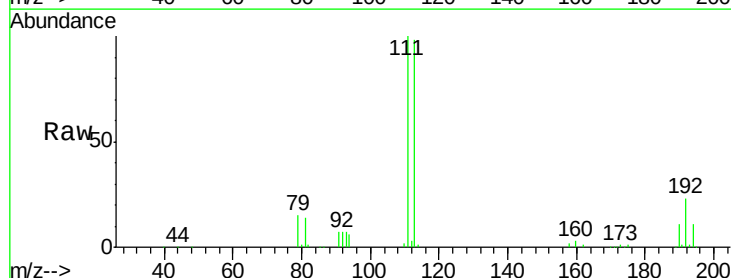
Tgt Ion:113 Resp: 420272

Ion Ratio Lower Upper

113 100

111 101.5 81.1 121.7

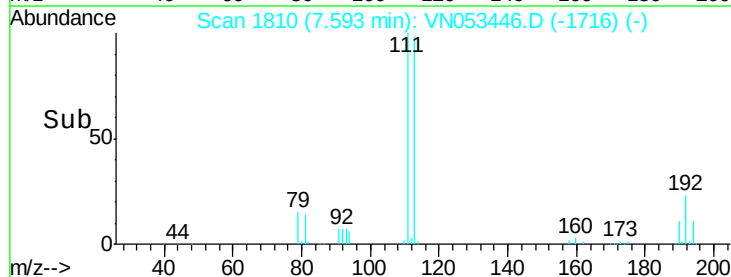
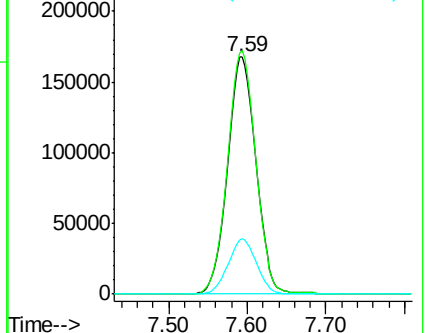
192 23.0 18.2 27.2

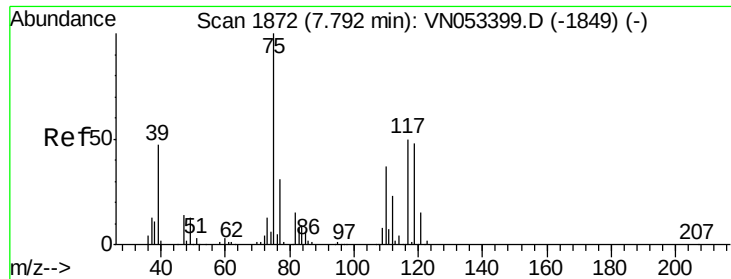


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.494 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053446.D

Acq: 17 Jan 2019 20:26

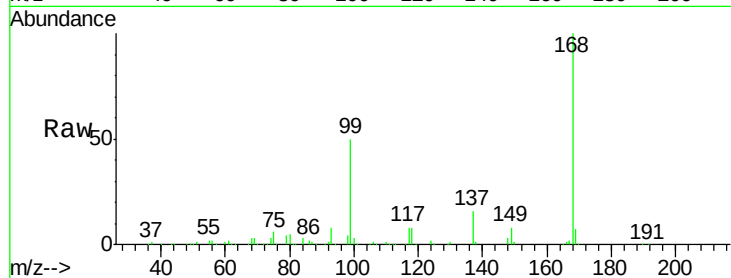
Tot Ion: 75 Resp: 59529

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

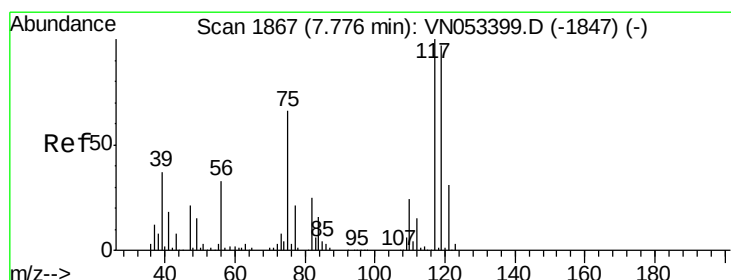
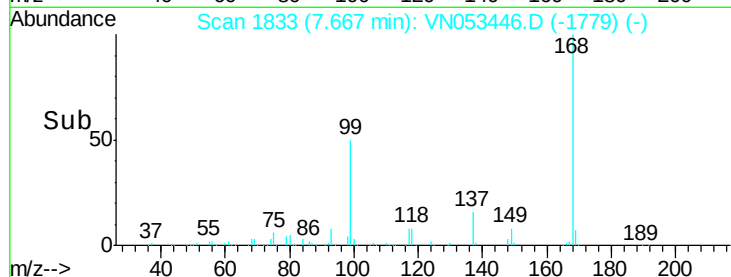
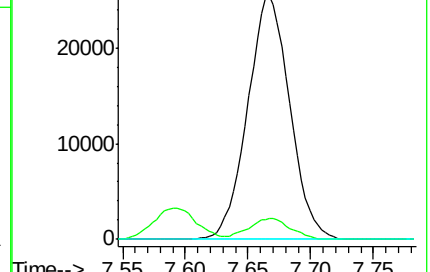
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053399.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.304 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053446.D

Acq: 17 Jan 2019 20:26

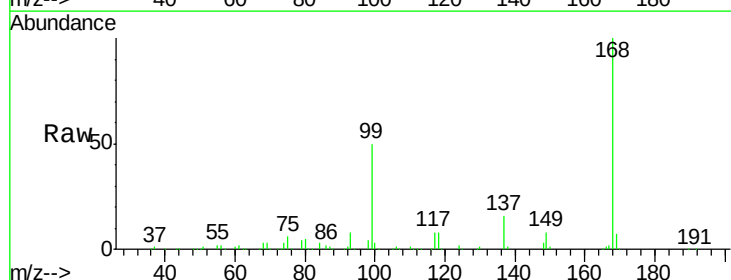
Tgt Ion: 117 Resp: 79058

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

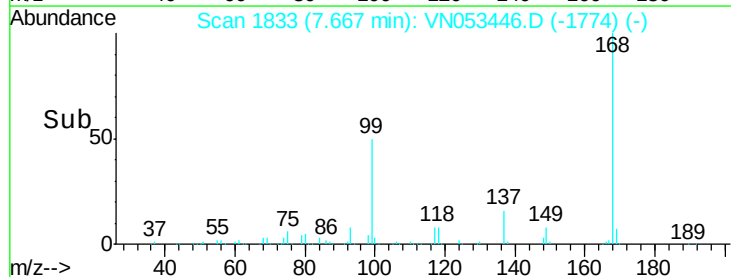
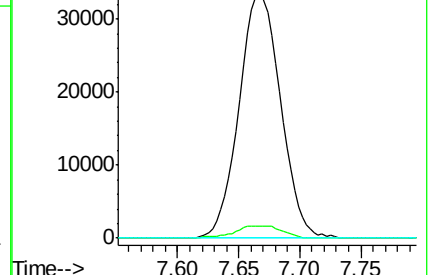
121 0.0 24.6 37.0#

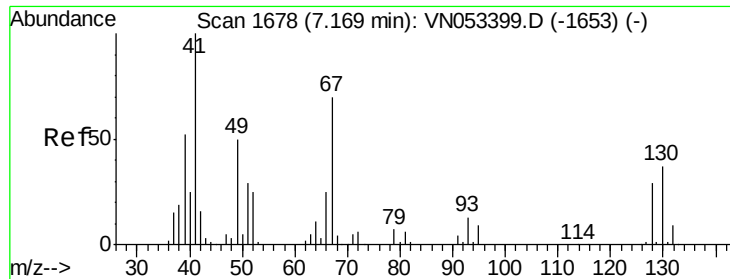


Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053399.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN053399.D (-1847) (-)

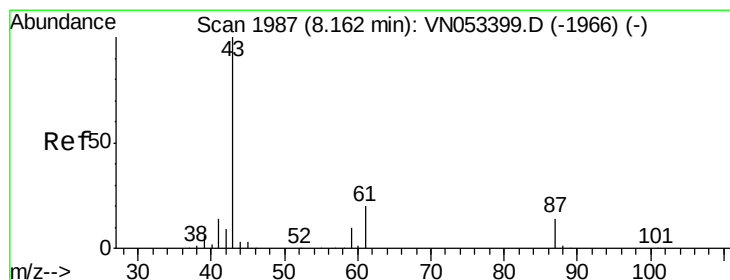
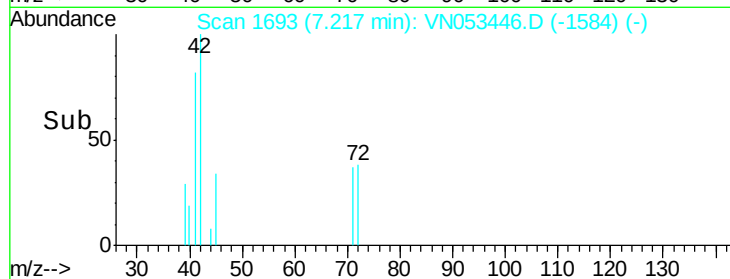
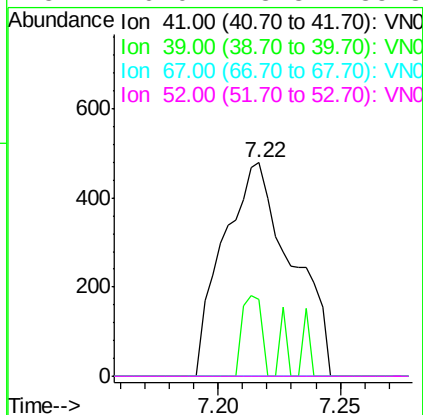
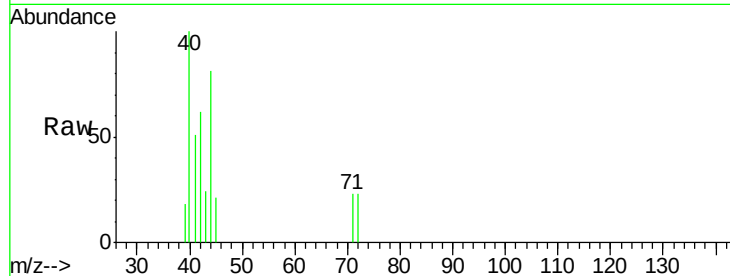




#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tot Ion: 41 Resp: 930

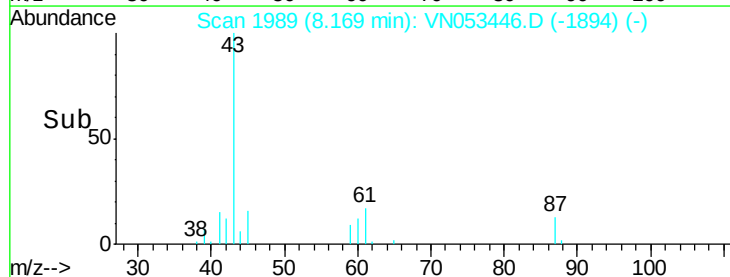
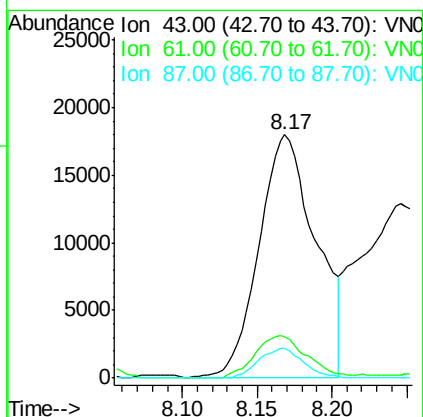
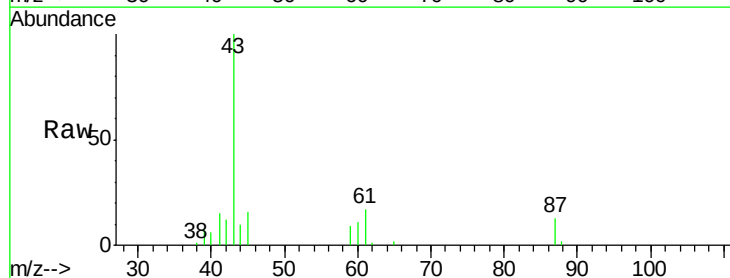
Ion	Ratio	Lower	Upper
41	100		
39	10.5	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#

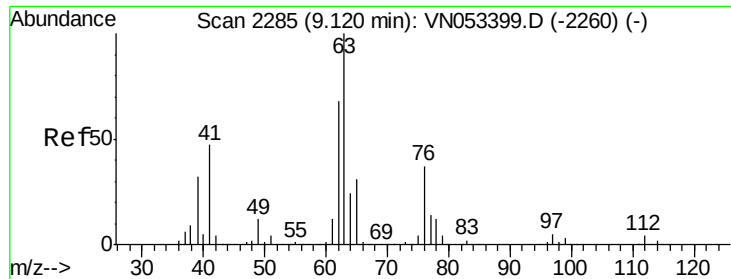


#43
Isopropyl Acetate
Concen: 3.473 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tgt Ion: 43 Resp: 47592

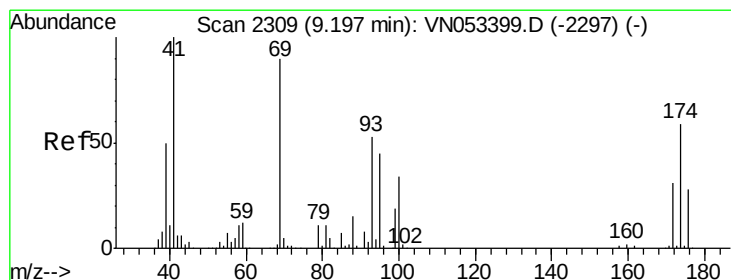
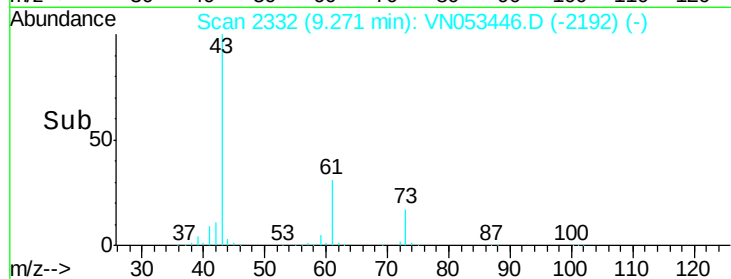
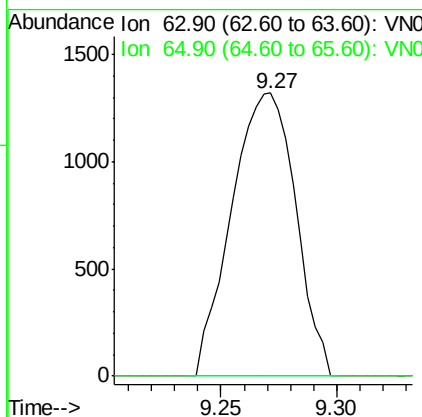
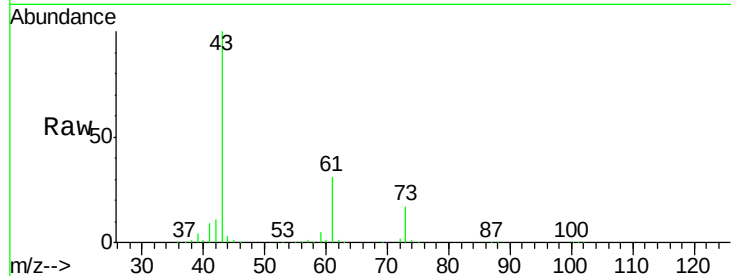
Ion	Ratio	Lower	Upper
43	100		
61	16.0	23.9	35.9#
87	9.5	11.0	16.6#





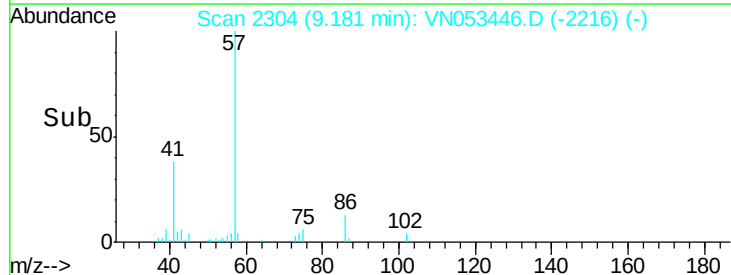
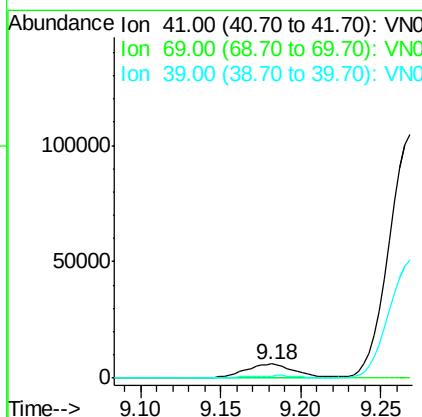
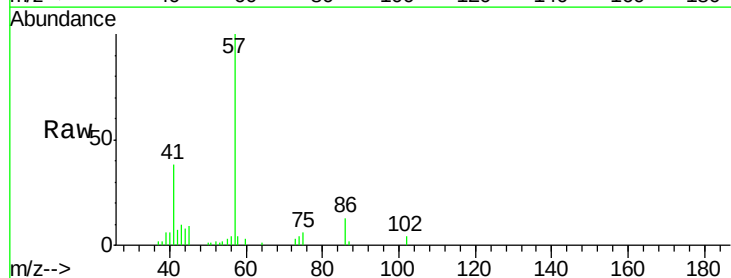
#45
 1,2-Dichloropropane
 Concen: 0.238 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

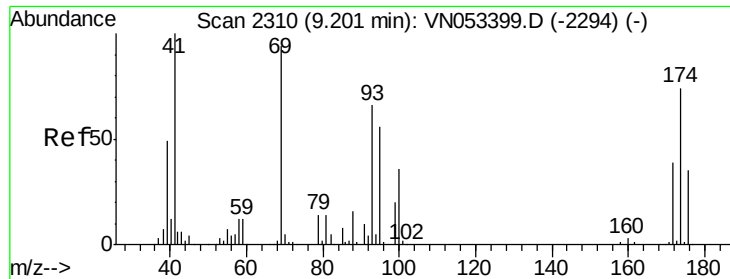
Tot Ion: 63 Resp: 2533
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.855 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

Tgt Ion: 41 Resp: 13121
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 5.384 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.08 min

Lab File: VN053446.D

Acq: 17 Jan 2019 20:26

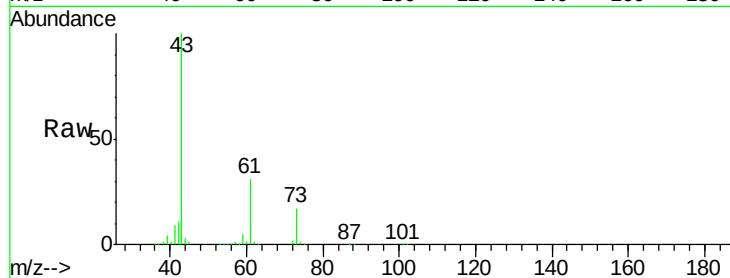
Tot Ion: 88 Resp: 372

Ion Ratio Lower Upper

88 100

43 592508.1 27.8 41.6#

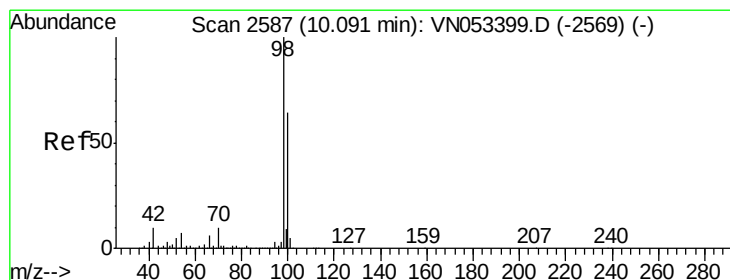
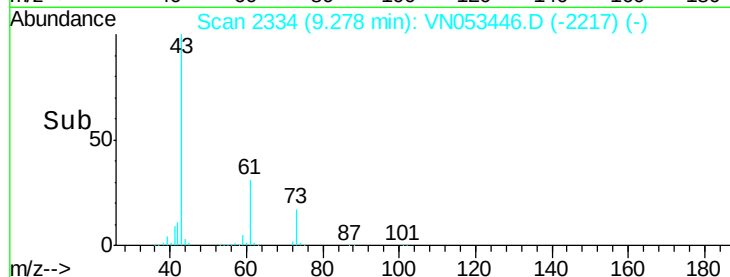
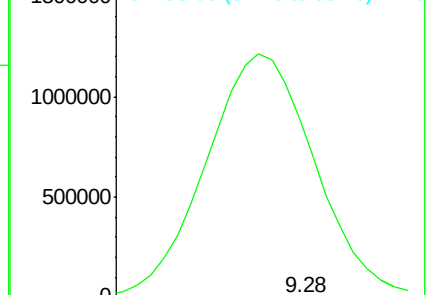
58 2618.3 56.5 84.7#



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: 5.384 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053446.D

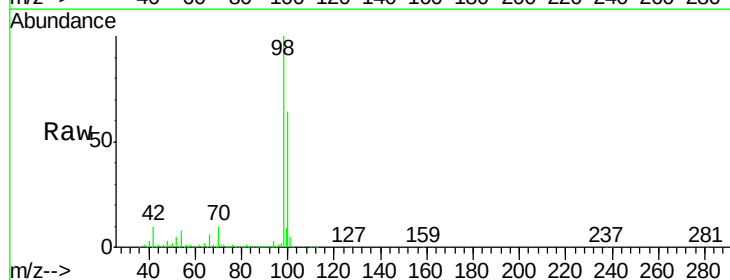
Acq: 17 Jan 2019 20:26

Tgt Ion: 98 Resp: 1827939

Ion Ratio Lower Upper

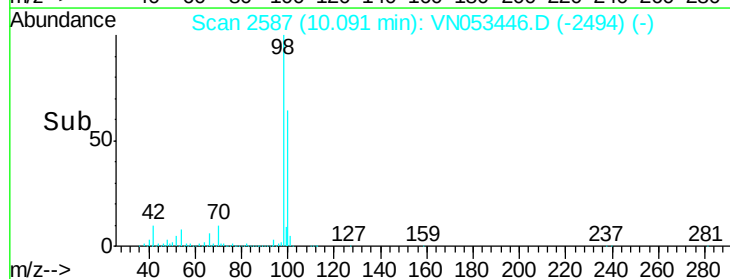
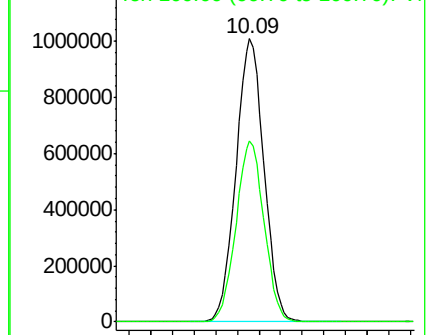
98 100

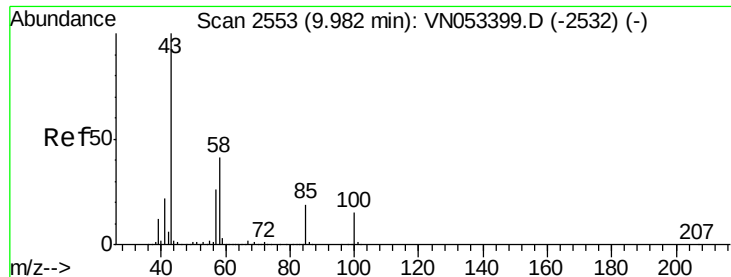
100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

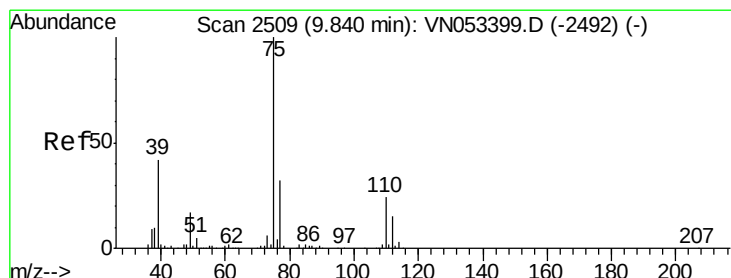
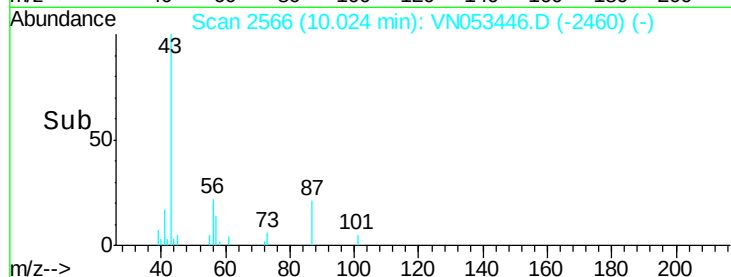
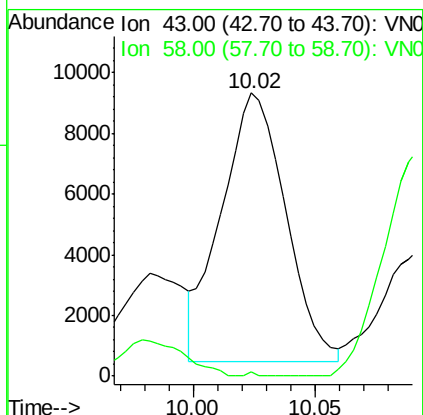
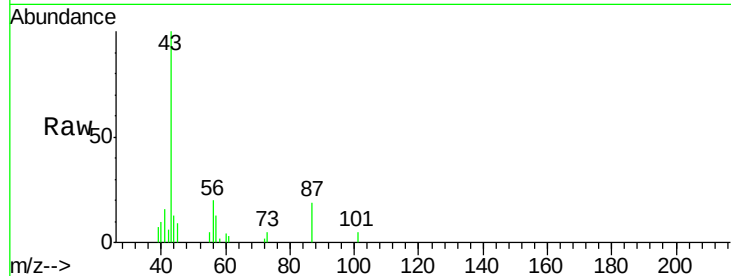
Ion 100.00 (99.70 to 100.70): VN0





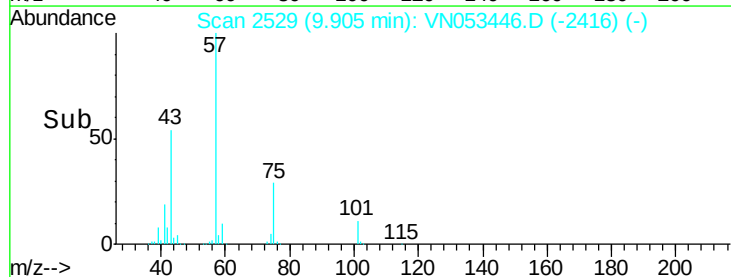
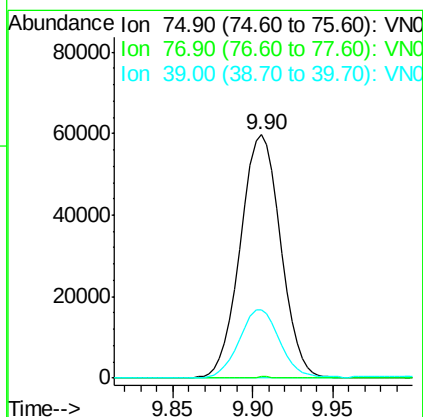
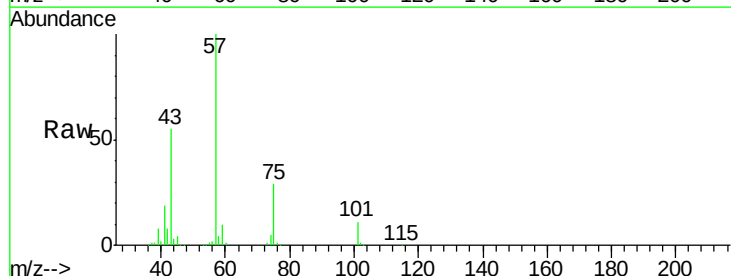
#51
4-Methyl-2-Pentanone
Concen: 2.170 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

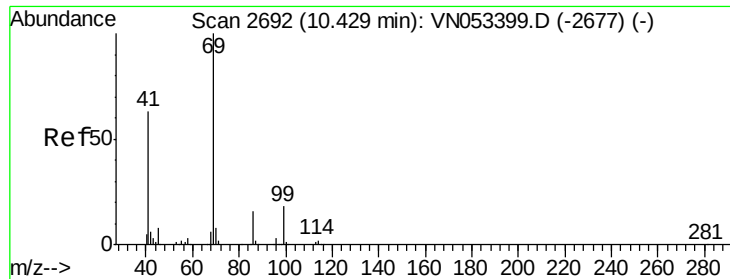
Tot Ion: 43 Resp: 16232
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



#54
cis-1,3-Dichloropropene
Concen: 6.722 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tgt Ion: 75 Resp: 102884
Ion Ratio Lower Upper
75 100
77 0.5 25.8 38.6#
39 28.1 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.182 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN053446.D

Acq: 17 Jan 2019 20:26

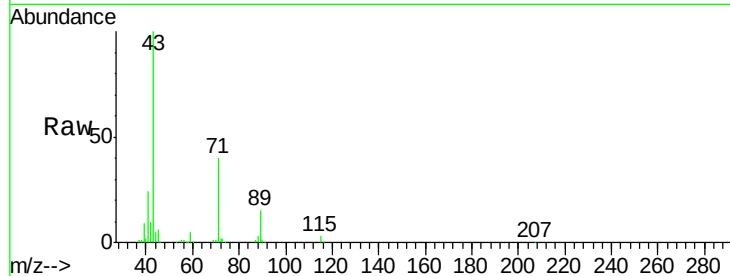
Tot Ion: 69 Resp: 1582

Ion Ratio Lower Upper

69 100

41 4488.7 49.4 74.0#

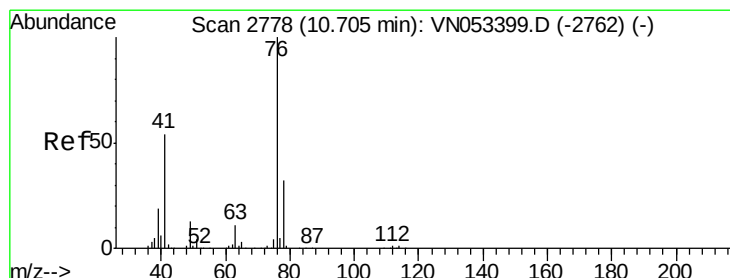
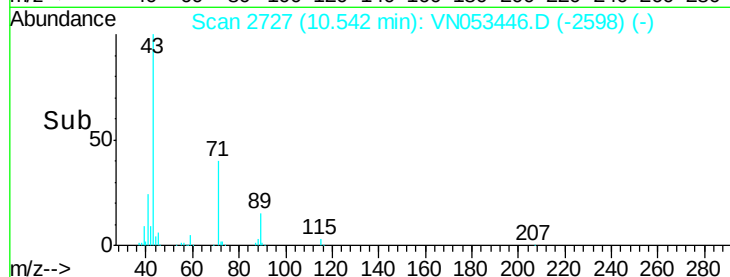
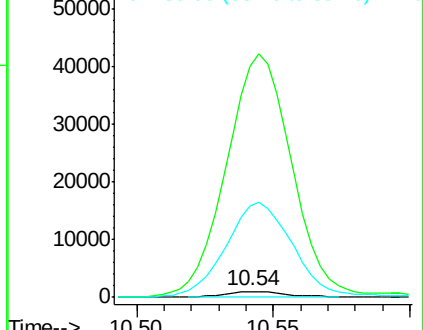
39 1774.4 23.3 34.9#



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



#57

1,3-Dichloropropane

Concen: 1.463 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053446.D

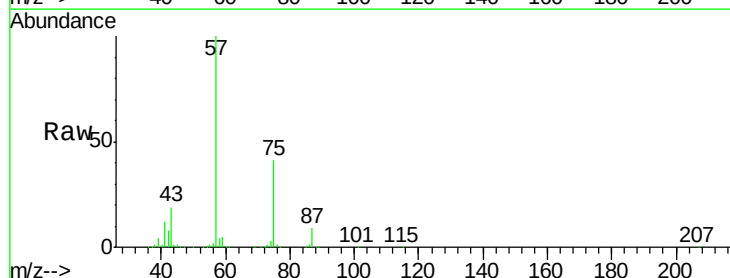
Acq: 17 Jan 2019 20:26

Tgt Ion: 76 Resp: 21809

Ion Ratio Lower Upper

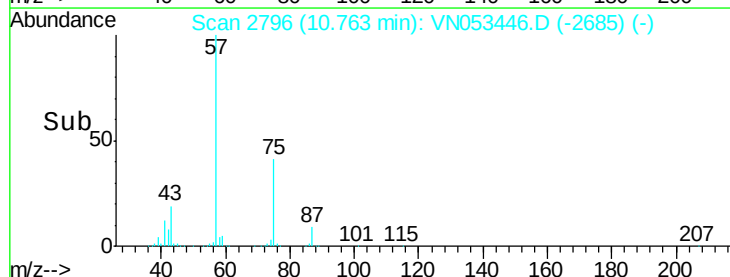
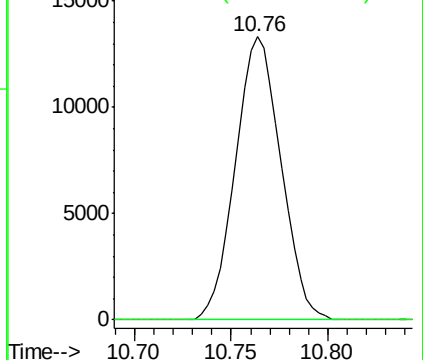
76 100

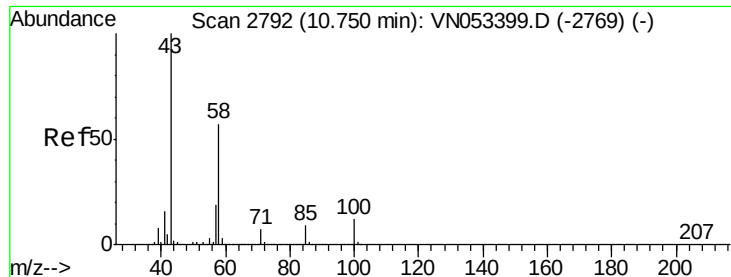
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

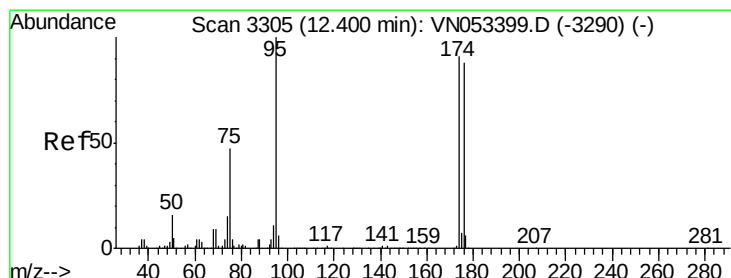
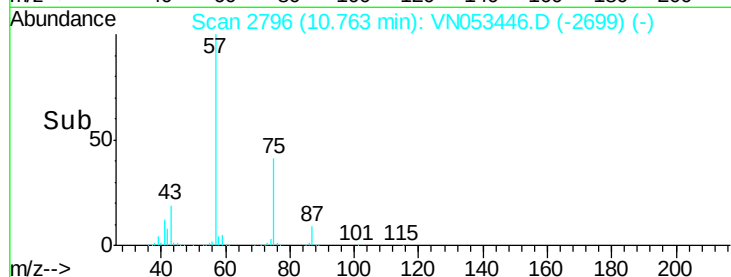
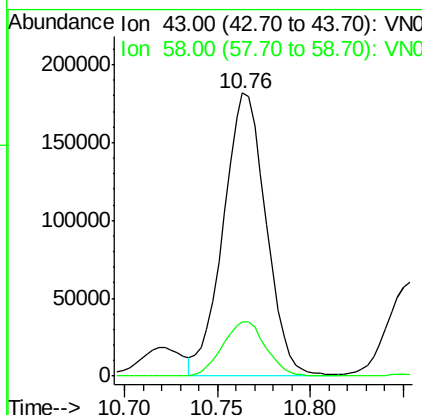
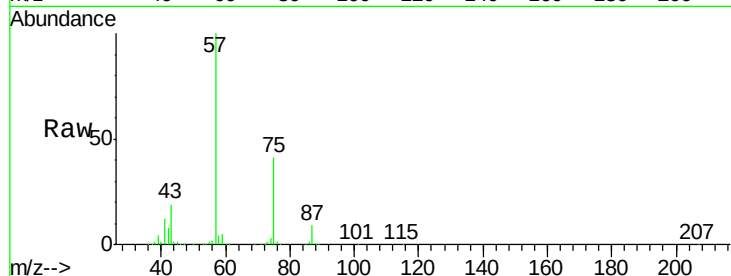
Ion 77.90 (77.60 to 78.60): VN0





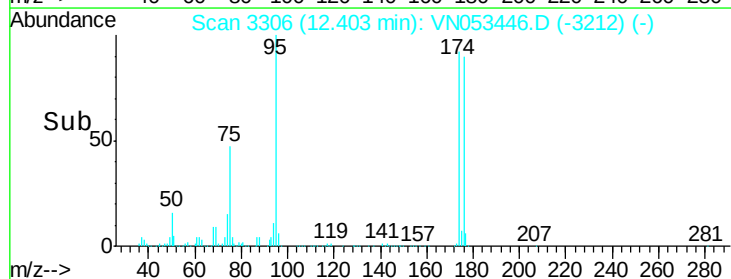
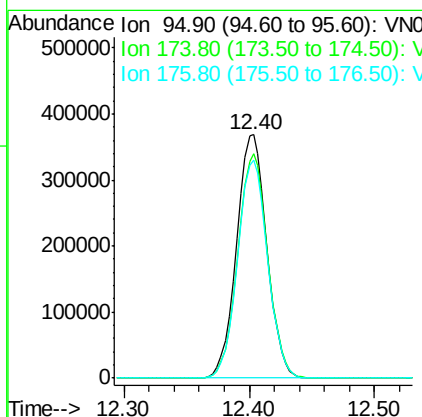
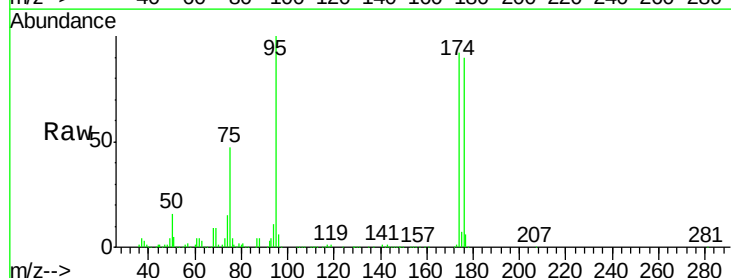
#59
2-Hexanone
Concen: 54.896 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

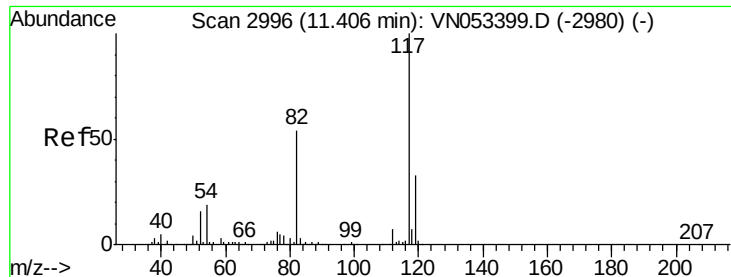
Tot Ion: 43 Resp: 288260
Ion Ratio Lower Upper
43 100
58 19.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

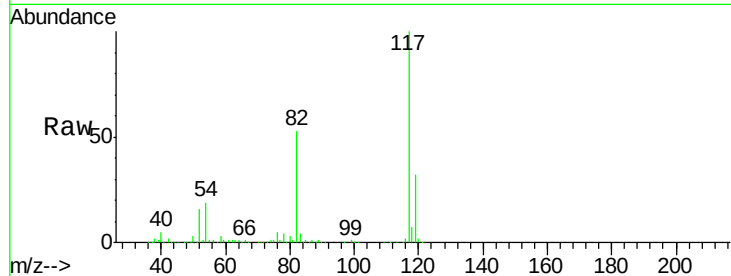
Tgt Ion: 95 Resp: 615191
Ion Ratio Lower Upper
95 100
174 91.4 0.0 183.2
176 89.0 0.0 177.4



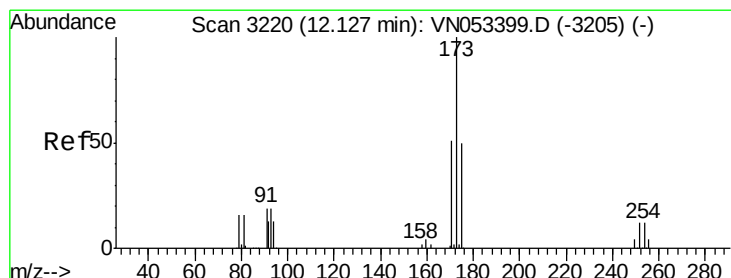
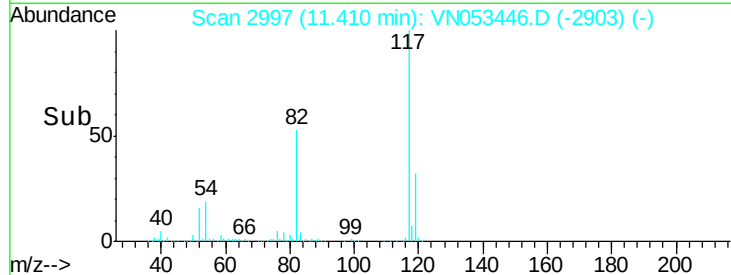
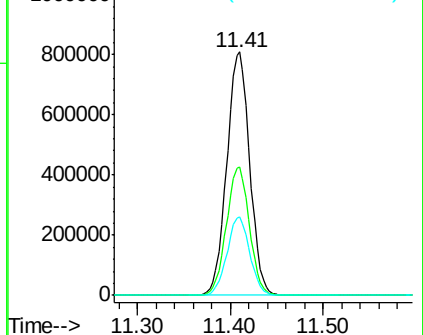


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tot Ion:117 Resp: 1380659
Ion Ratio Lower Upper
117 100
82 52.7 42.9 64.3
119 32.1 26.0 39.0

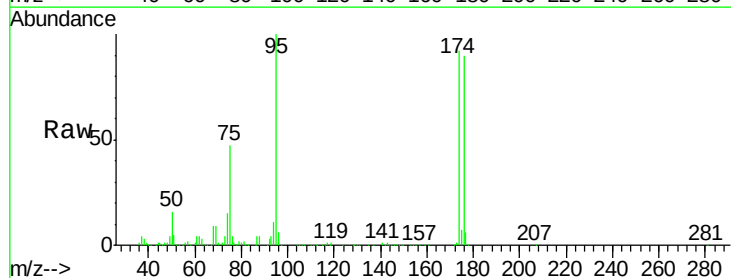


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

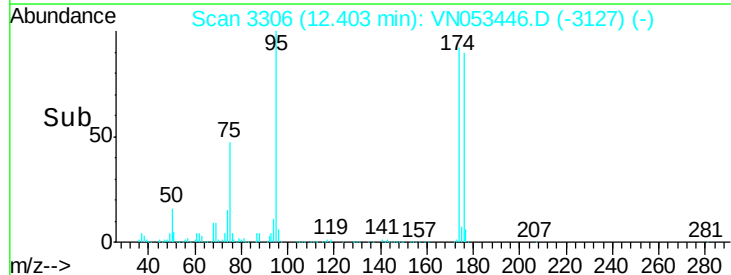
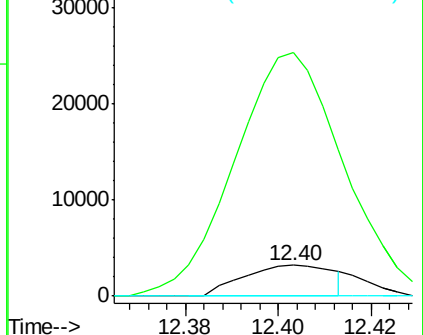


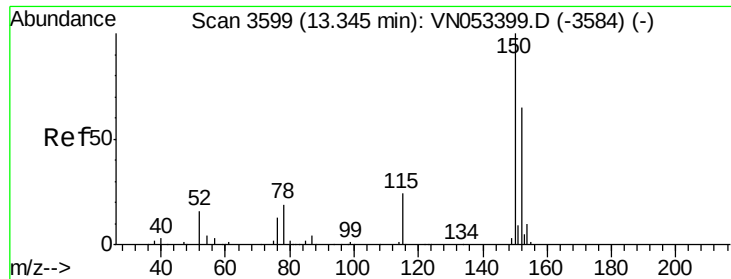
#71
Bromoform
Concen: 0.621 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

Tgt Ion:173 Resp: 4346
Ion Ratio Lower Upper
173 100
175 819.2 24.6 74.0#
254 0.0 0.2 0.2#



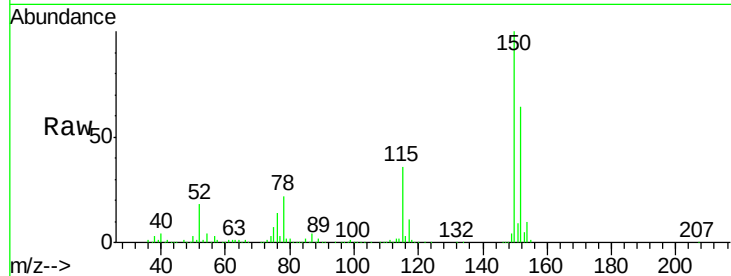
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



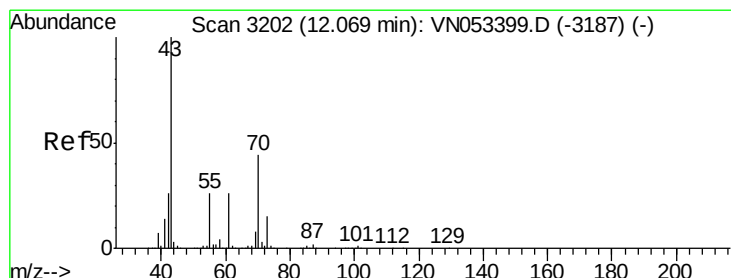
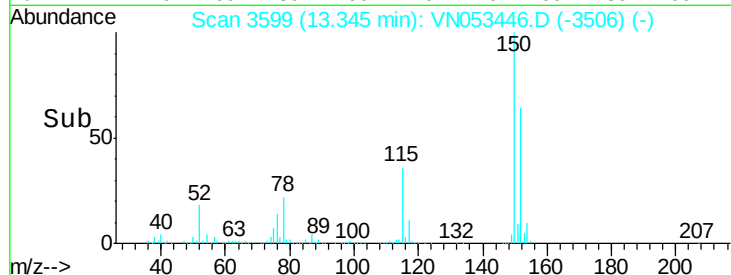
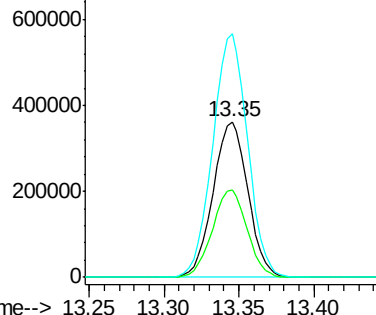


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

Tot Ion:152 Resp: 584391
 Ion Ratio Lower Upper
 152 100
 115 56.1 27.8 83.4
 150 156.9 0.0 349.0

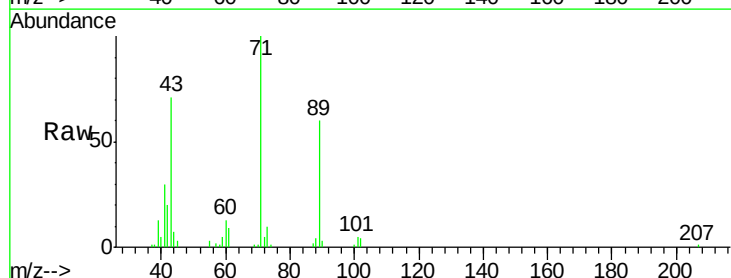


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

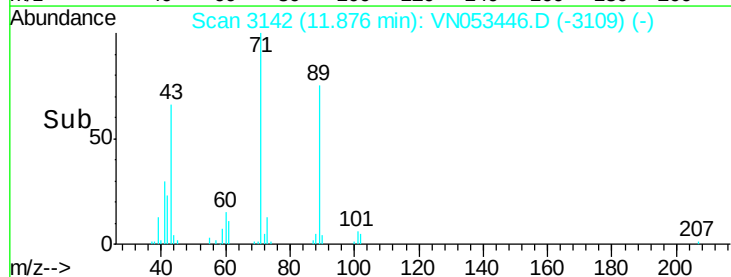
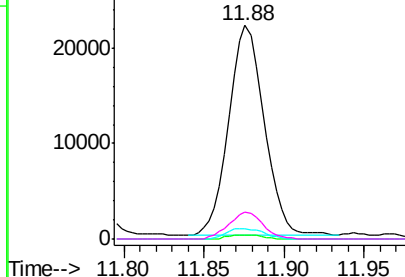


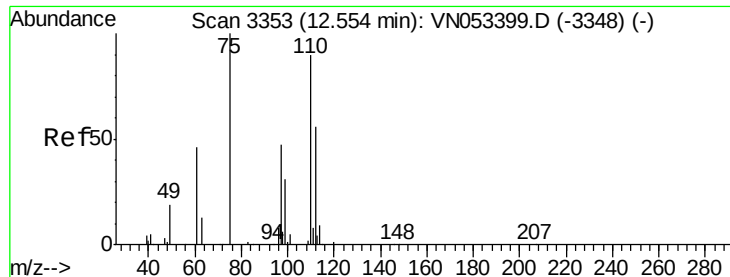
#74
 N-ethyl acetate
 Concen: 2.938 ug/l
 RT: 11.88 min Scan# 3142
 Delta R.T. -0.19 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

Tgt Ion: 43 Resp: 33521
 Ion Ratio Lower Upper
 43 100
 70 1.9 35.4 53.2#
 55 5.1 20.9 31.3#
 61 12.0 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

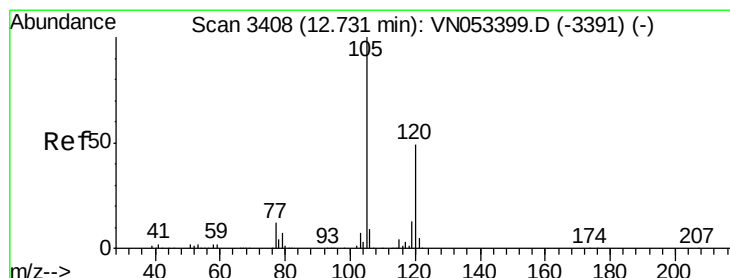
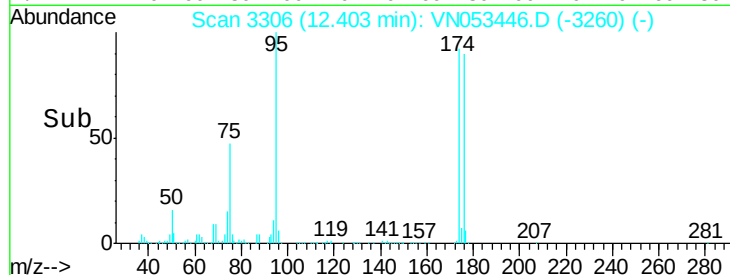
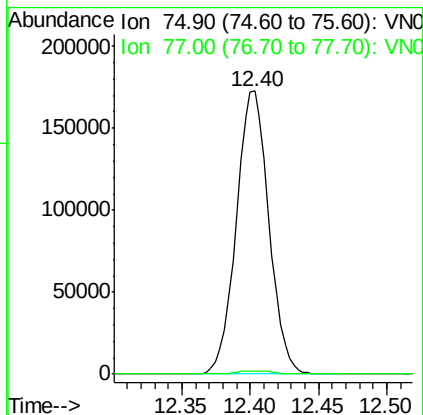
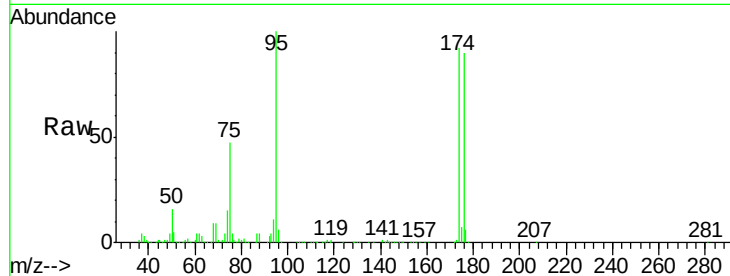




#76

1,2,3-Trichloropropane
Concen: 37.059 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

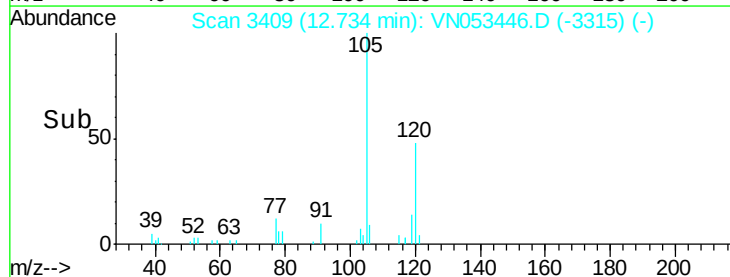
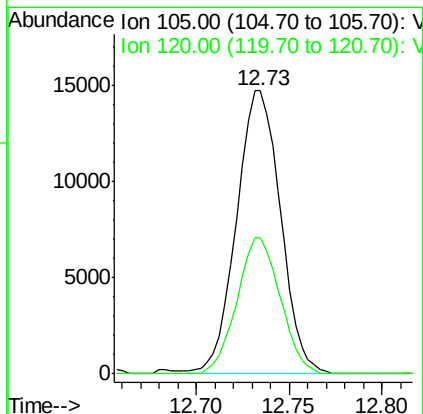
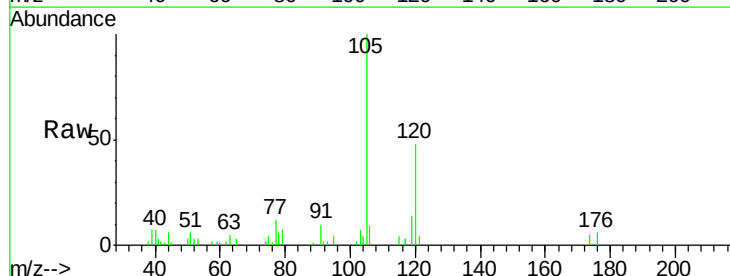
Tot Ion: 75 Resp: 285398
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

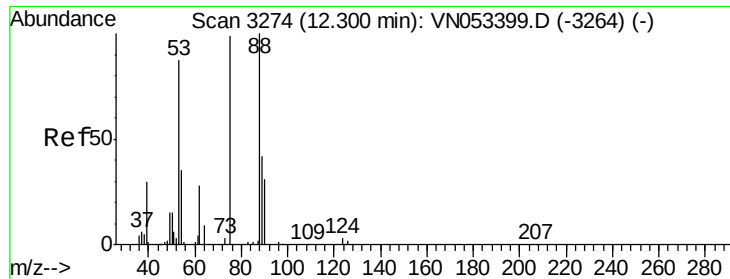


#80

1,3,5-Trimethylbenzene
Concen: 0.702 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053446.D
Acq: 17 Jan 2019 20:26

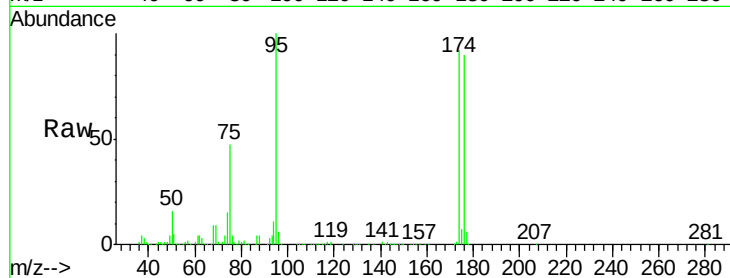
Tgt Ion: 105 Resp: 24429
Ion Ratio Lower Upper
105 100
120 47.1 24.9 74.6





#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.569 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

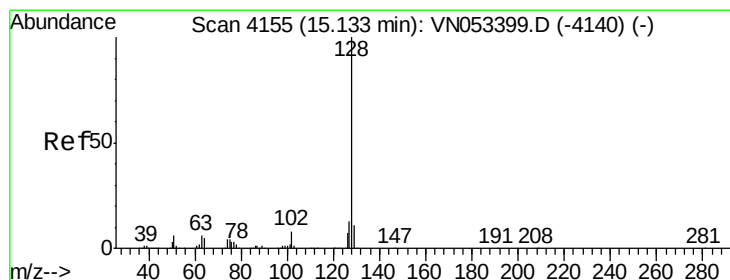
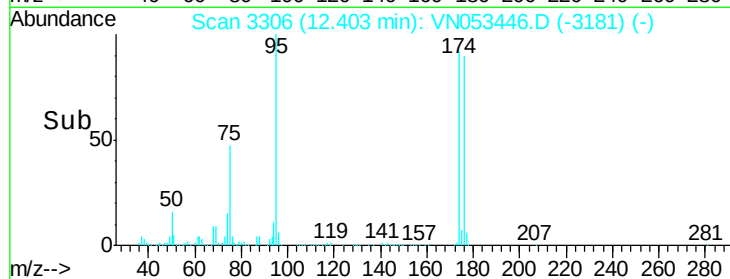
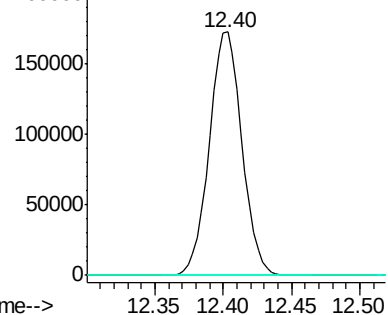
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

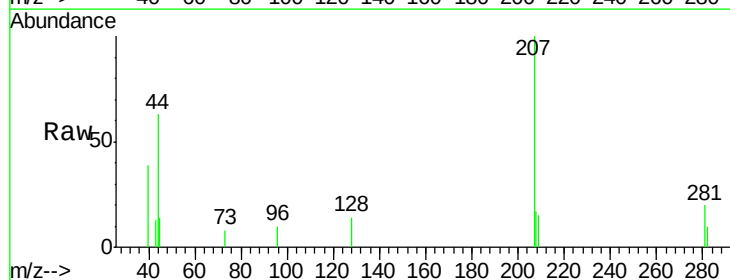
Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)



#95
 Naphthalene
 Concen: 3.956 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN053446.D
 Acq: 17 Jan 2019 20:26

Tgt 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): VN053399.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN053399.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN053399.D (-4140) (-)

