

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054087.D
 Acq On : 5 Mar 2019 00:55
 Operator : JC/SP
 Sample : K1712-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 05 01:18:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	547652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1057778	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1048246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	395366	50.00	ug/l	0.00

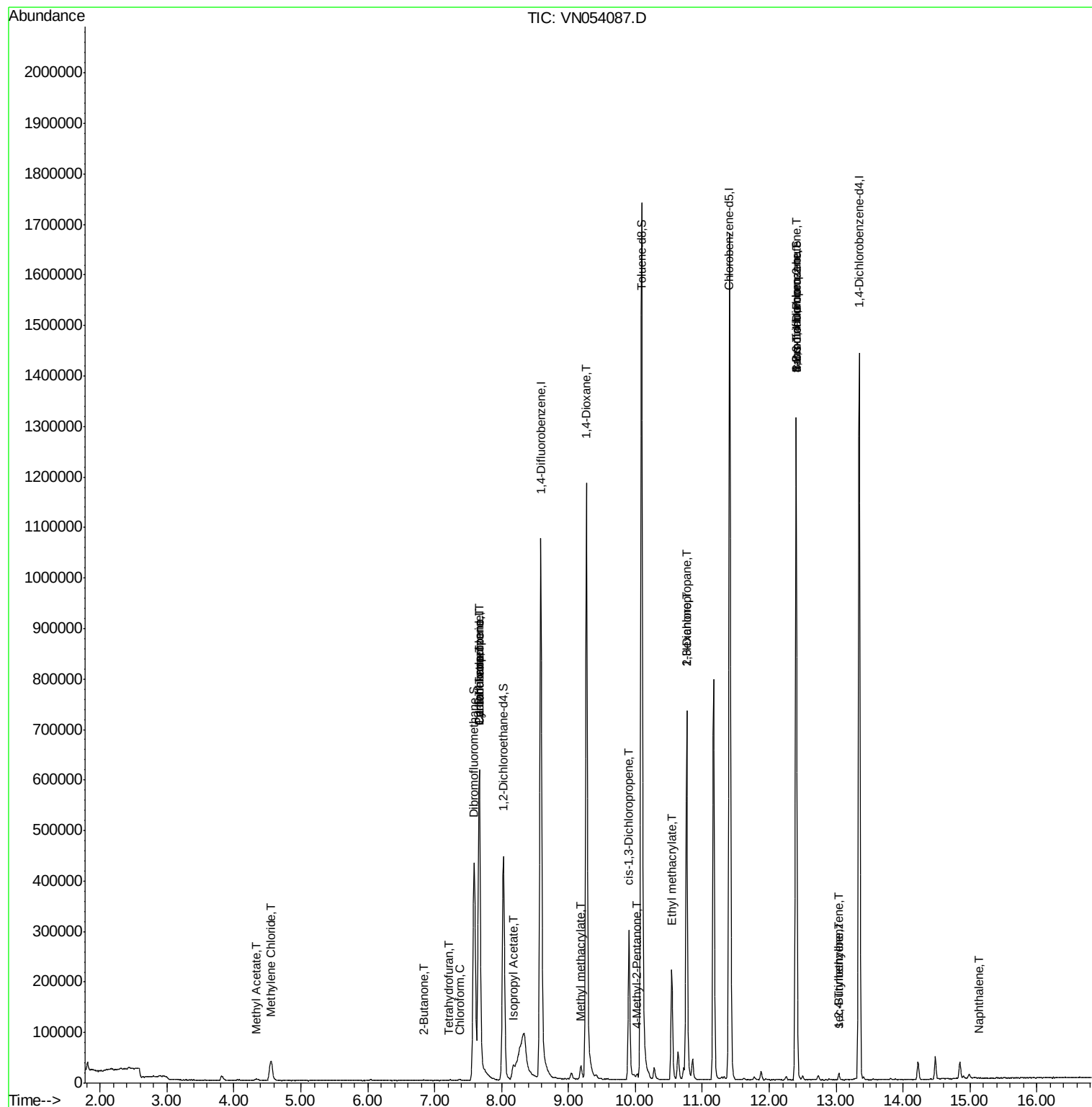
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	383044	59.67	ug/l	0.00
Spiked Amount			Recovery	=	119.34%	
35) Dibromofluoromethane	7.59	113	343799	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
50) Toluene-d8	10.09	98	1351752	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.40	95	452278	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	

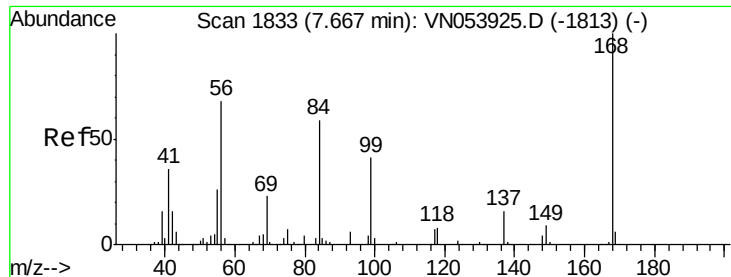
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14749	Below Cal		97
18) Methyl Acetate	4.33	43	6501	1.448	ug/l #	86
20) Methylene Chloride	4.55	84	30505	4.801	ug/l	87
25) 2-Butanone	6.84	43	652	0.259	ug/l #	47
29) Tetrahydrofuran	7.21	42	412	0.245	ug/l #	69
30) Chloroform	7.38	83	2637	0.242	ug/l	94
31) Cyclohexane	7.67	56	10461	0.614	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40266	4.093	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49960	4.883	ug/l #	16
43) Isopropyl Acetate	8.17	43	35461	2.990	ug/l #	84
48) Methyl methacrylate	9.18	41	11112	2.037	ug/l #	12
49) 1,4-Dioxane	9.26	88	30	0.406	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8001	1.313	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	53215	4.651	ug/l #	71
56) Ethyl methacrylate	10.54	69	1098	2.076	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8254	0.735	ug/l #	43
59) 2-Hexanone	10.77	43	113499	28.636	ug/l #	48
71) Bromoform	12.40	173	3461	0.624	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	224442	35.388	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	224442	111.847	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	7227	0.287	ug/l	98
85) sec-Butylbenzene	13.04	105	7227	0.237	ug/l #	56
95) Naphthalene	15.14	128	656	3.251	ug/l #	70

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

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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: VN054087.D

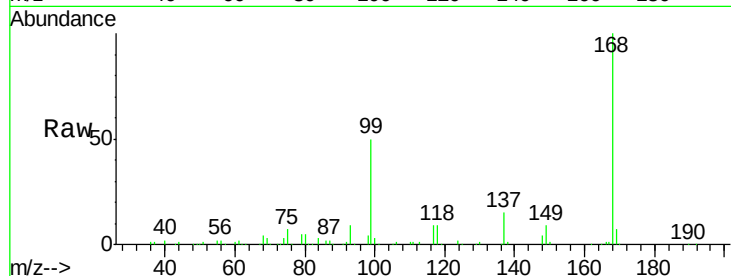
Acq: 5 Mar 2019 00:55

Tot Ion:168 Resp: 547652

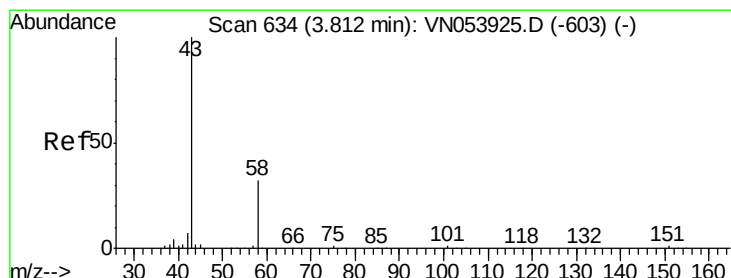
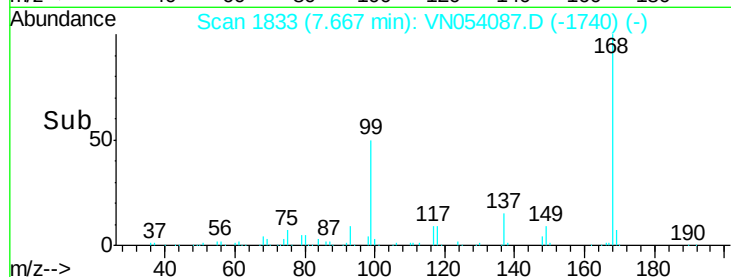
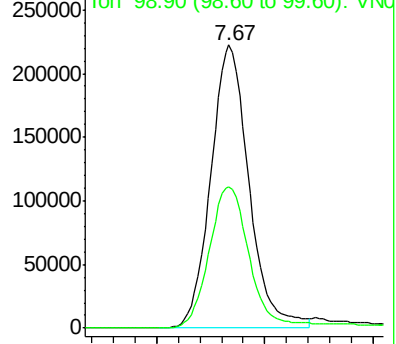
Ion Ratio Lower Upper

168 100

99 49.8 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN054087.D (-1740) (-)



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054087.D

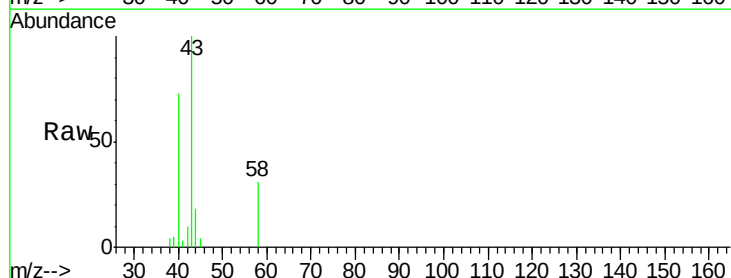
Acq: 5 Mar 2019 00:55

Tgt Ion: 43 Resp: 14749

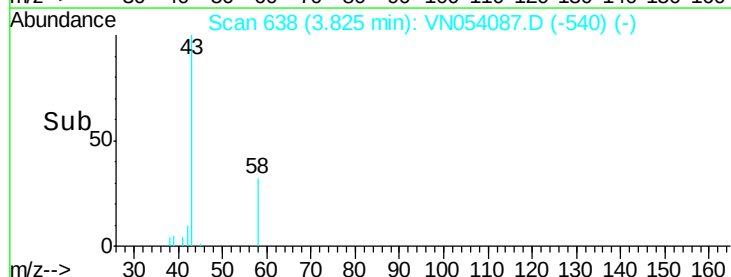
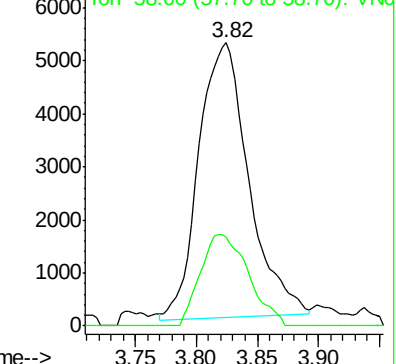
Ion Ratio Lower Upper

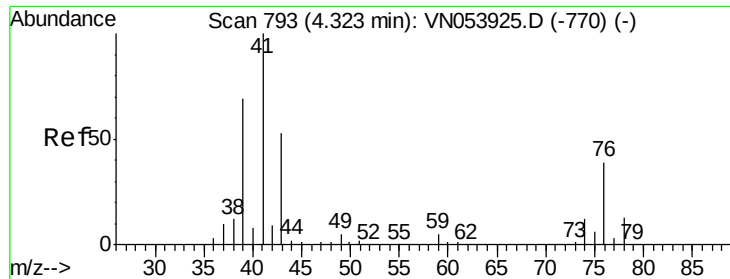
43 100

58 32.6 27.6 41.4



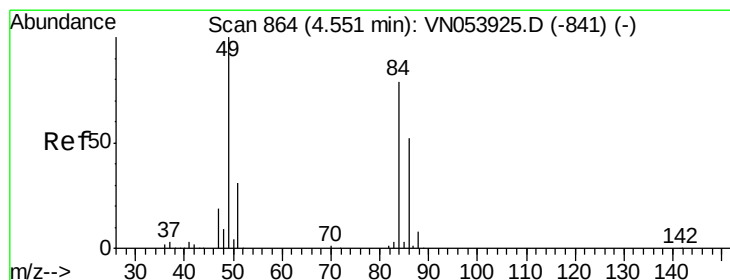
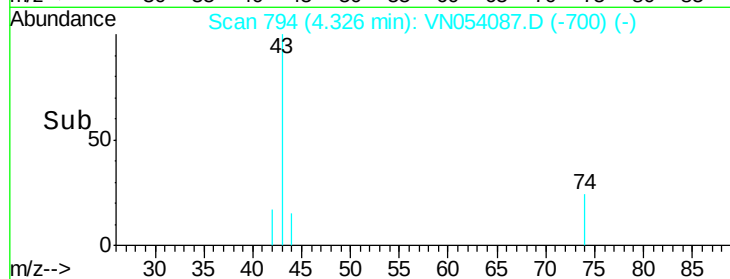
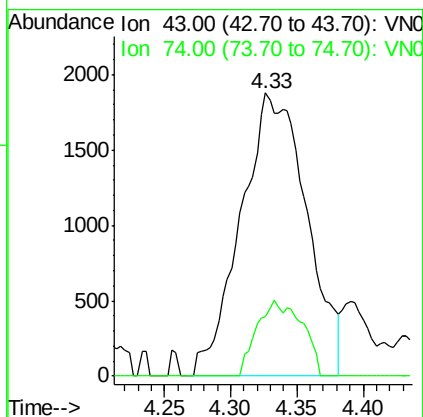
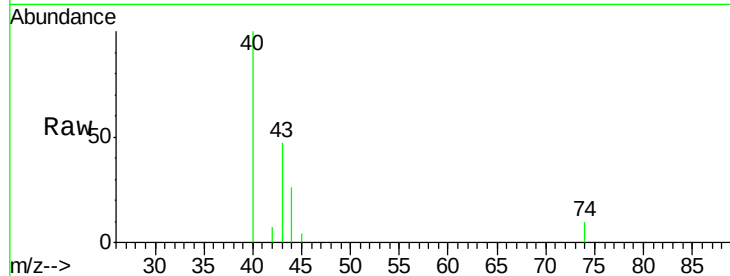
Abundance Ion 43.00 (42.70 to 43.70): VN054087.D (-540) (-)





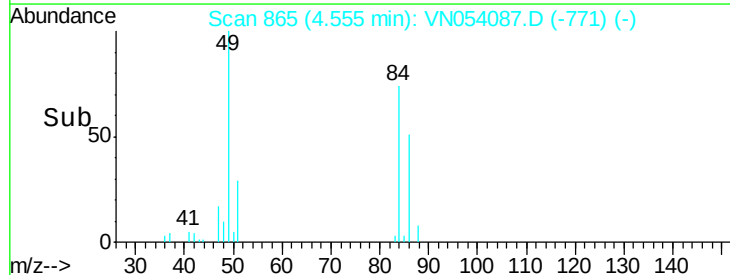
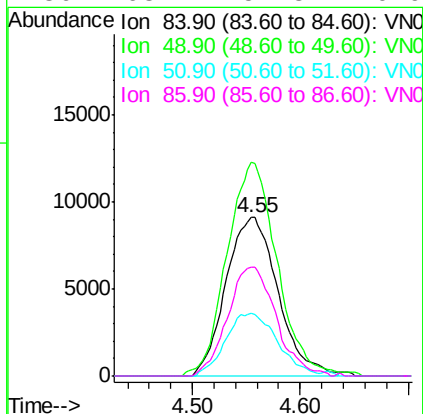
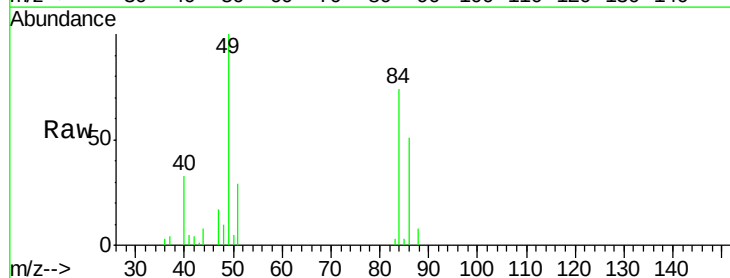
#18
Methyl Acetate
Concen: 1.448 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

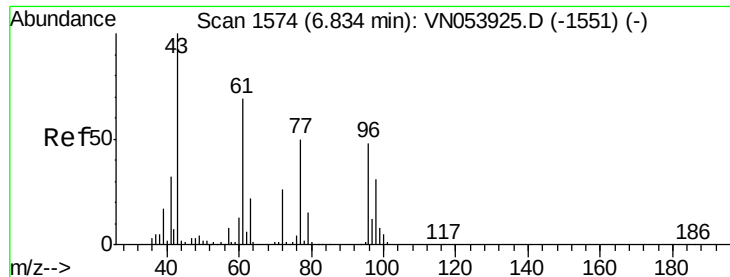
Tot Ion: 43 Resp: 6501
Ion Ratio Lower Upper
43 100
74 18.5 20.5 30.7#



#20
Methylene Chloride
Concen: 4.801 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

Tgt Ion: 84 Resp: 30505
Ion Ratio Lower Upper
84 100
49 132.3 89.7 134.5
51 39.5 27.8 41.8
86 68.7 51.3 76.9





#25

2-Butanone

Concen: 0.259 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN054087.D

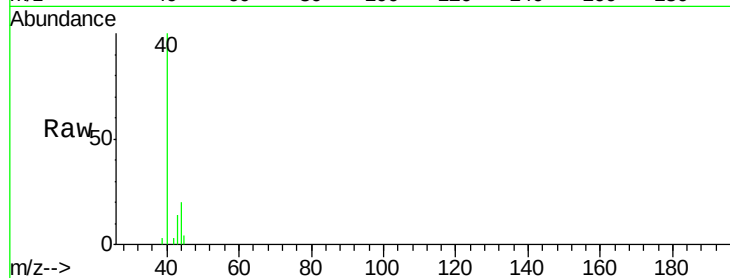
Acq: 5 Mar 2019 00:55

Tot Ion: 43 Resp: 652

Ion Ratio Lower Upper

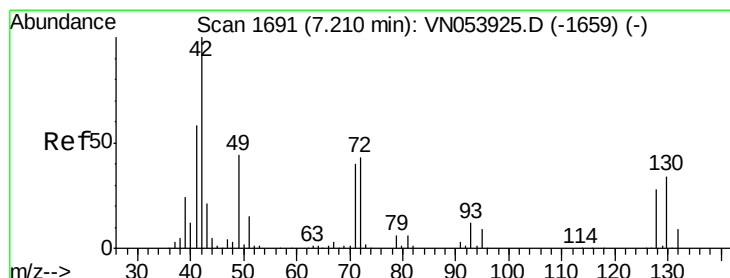
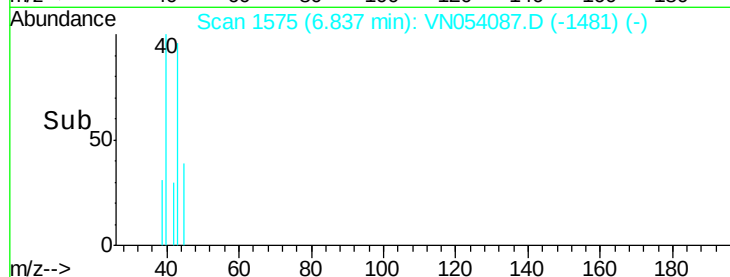
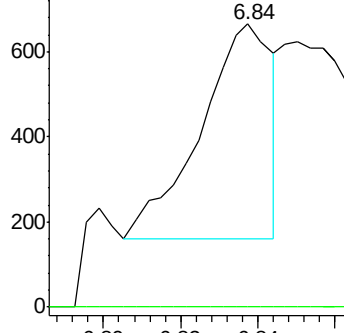
43 100

72 0.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.245 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

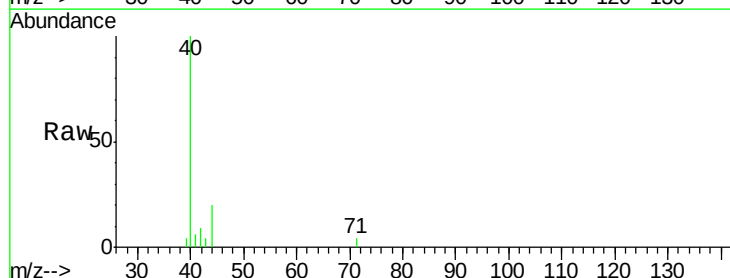
Tgt Ion: 42 Resp: 412

Ion Ratio Lower Upper

42 100

72 23.8 36.9 55.3#

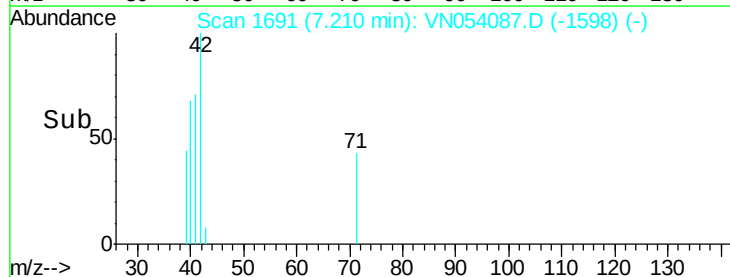
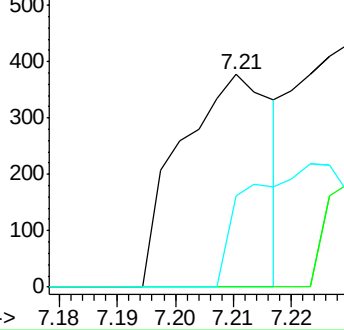
71 61.7 34.6 52.0#

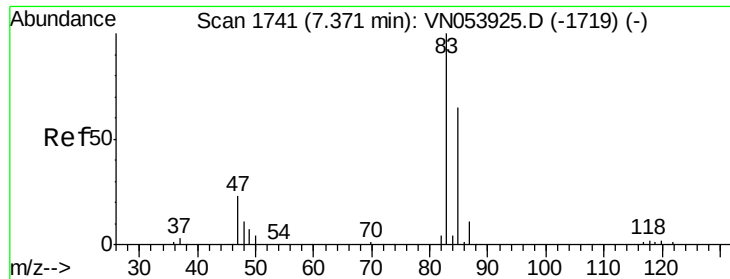


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#30

Chloroform

Concen: 0.242 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN054087.D

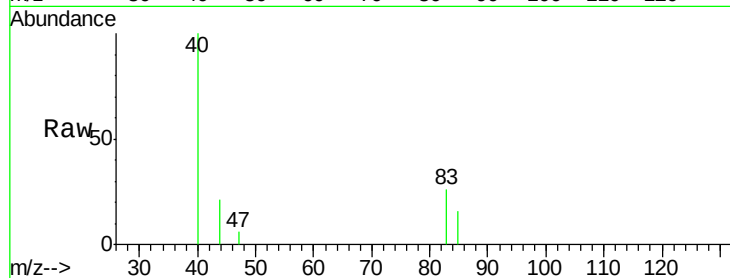
Acq: 5 Mar 2019 00:55

Tot Ion: 83 Resp: 2637

Ion Ratio Lower Upper

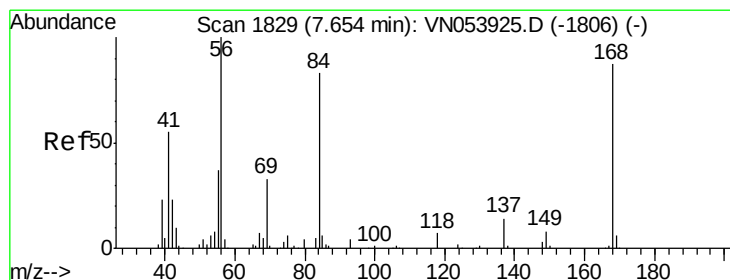
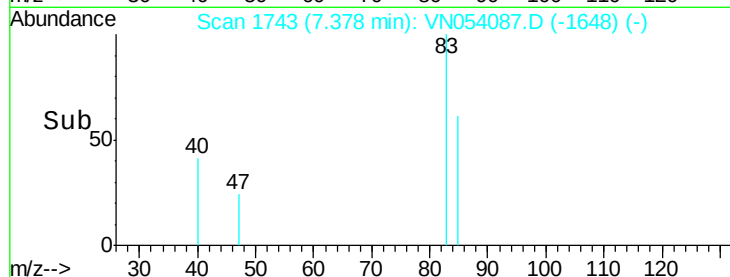
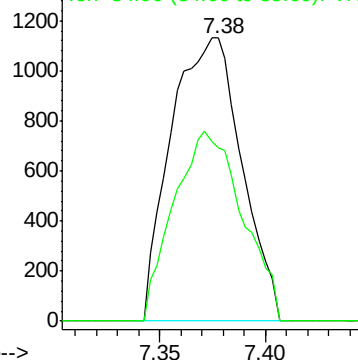
83 100

85 61.1 52.6 78.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0



#31

Cyclohexane

Concen: 0.614 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

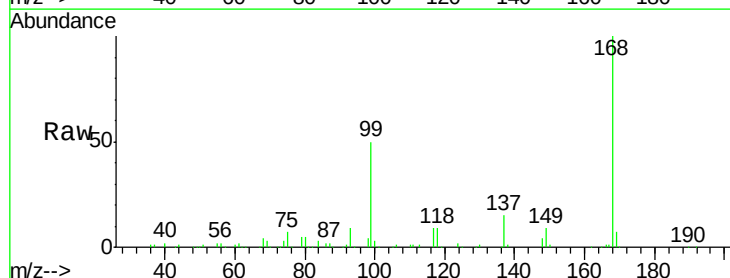
Tgt Ion: 56 Resp: 10461

Ion Ratio Lower Upper

56 100

69 169.6 26.0 39.0#

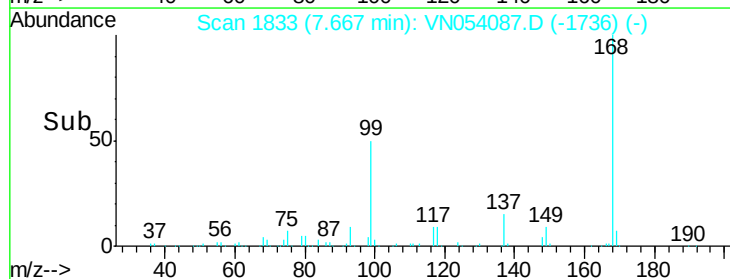
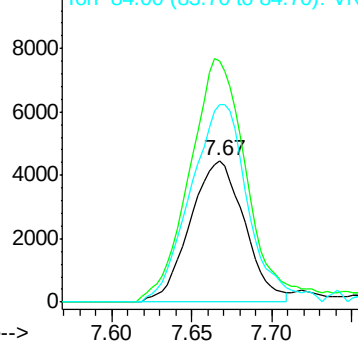
84 139.3 69.1 103.7#

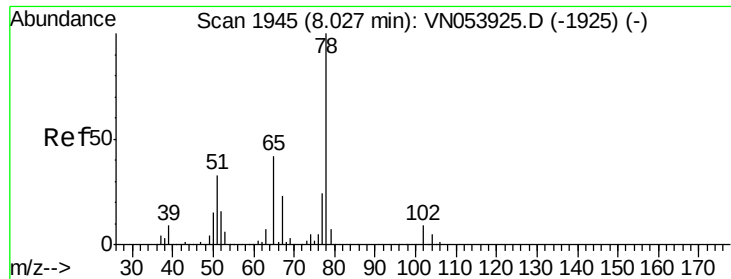


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

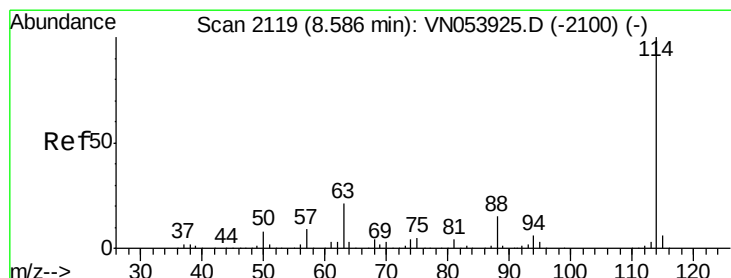
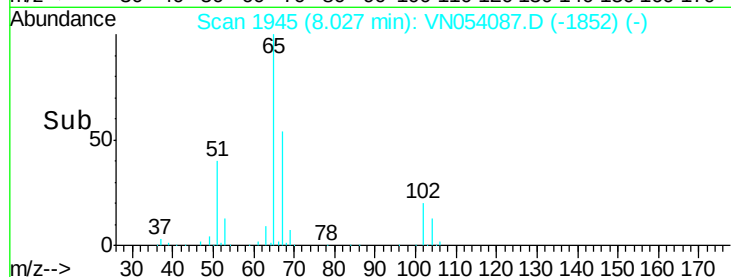
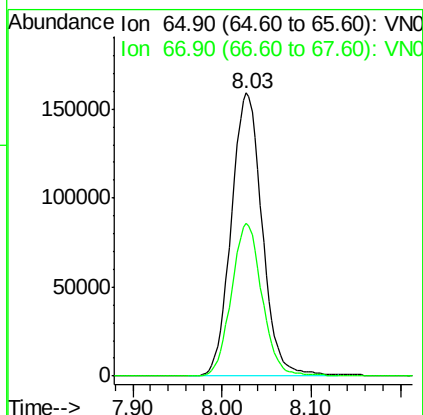
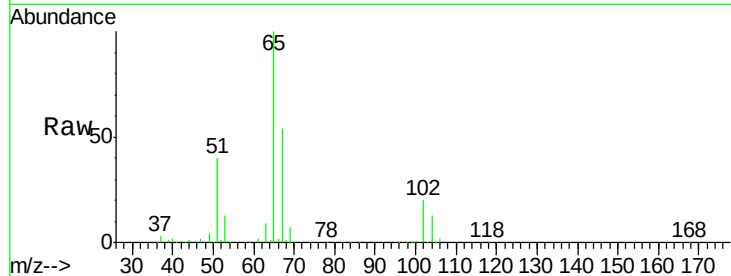
Ion 84.00 (83.70 to 84.70): VN0





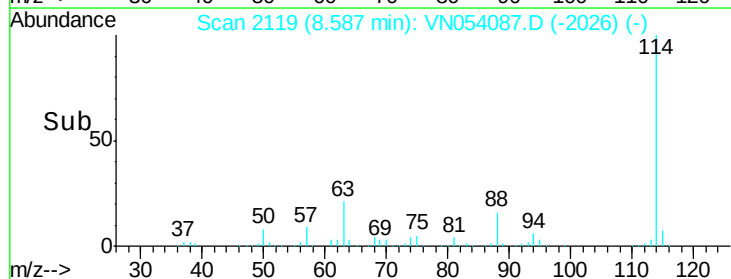
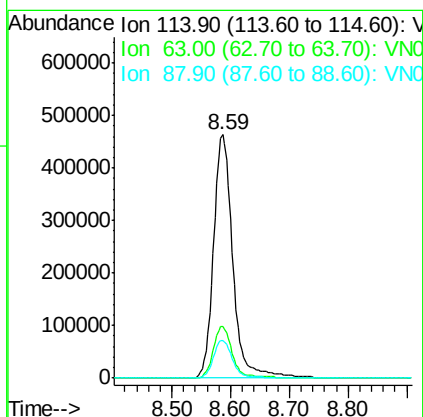
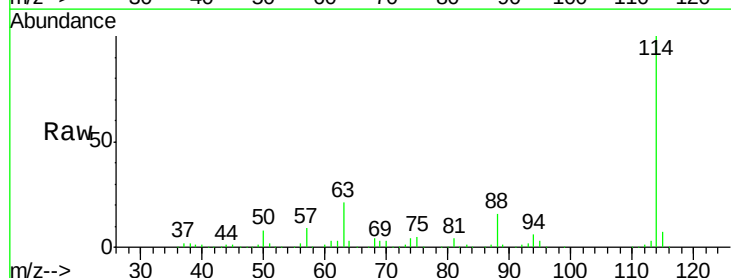
#33
 1,2-Dichloroethane-d4
 Concen: 59.667 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

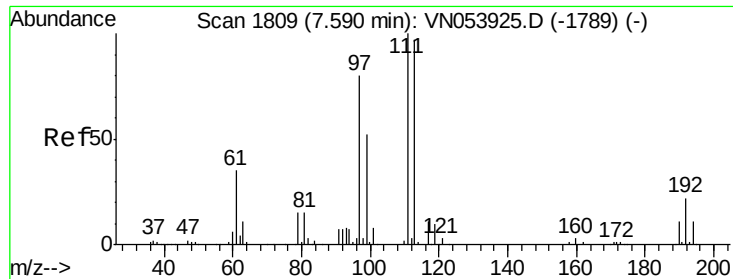
Tot Ion: 65 Resp: 383044
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

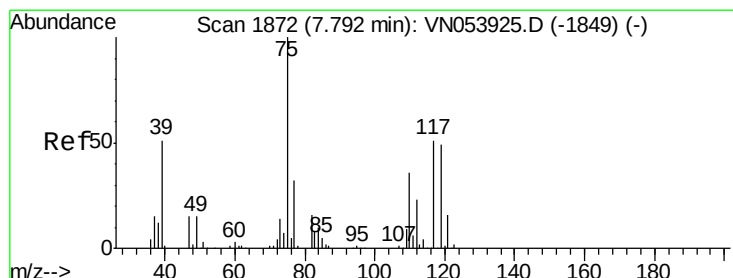
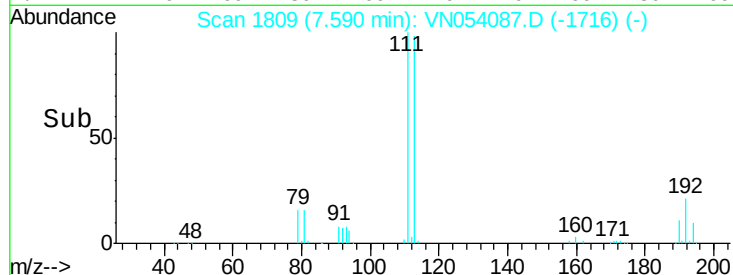
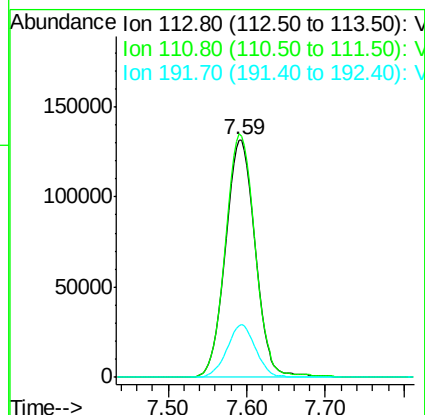
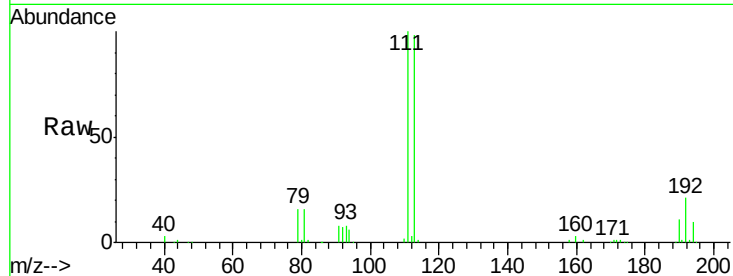
Tgt Ion: 114 Resp: 1057778
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 37.4
 88 15.6 0.0 30.4





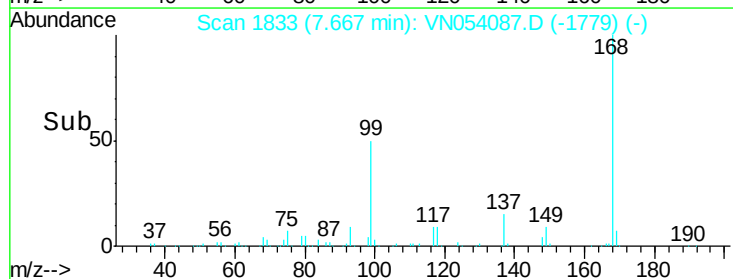
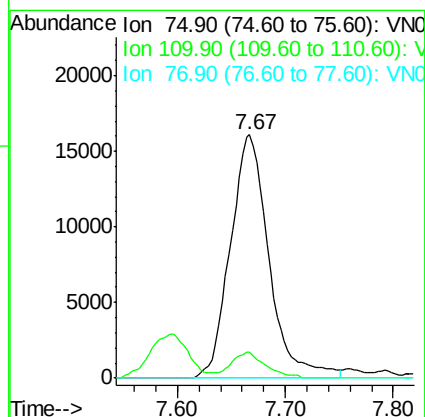
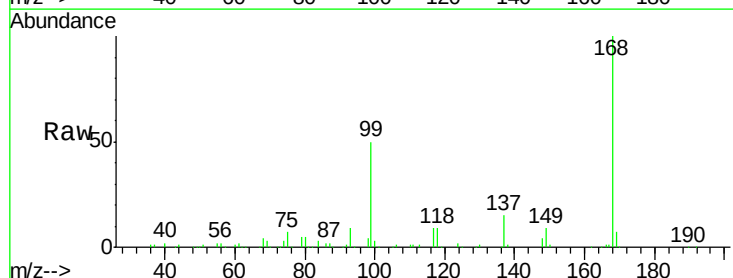
#35
 Dibromofluoromethane
 Concen: 50.262 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

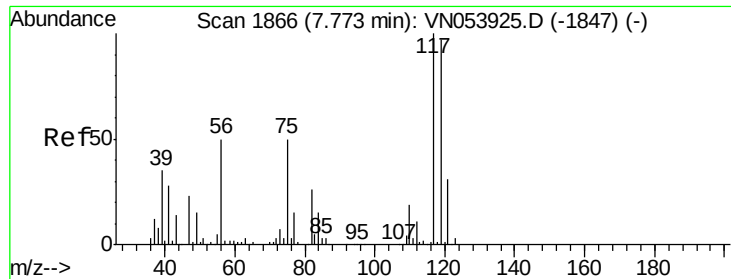
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.1	121.7
192	21.4	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.093 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.0	57.0#
77	0.0	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 4.883 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

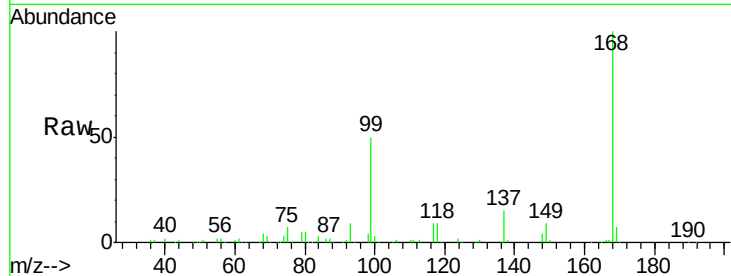
Tot Ion:117 Resp: 49960

Ion Ratio Lower Upper

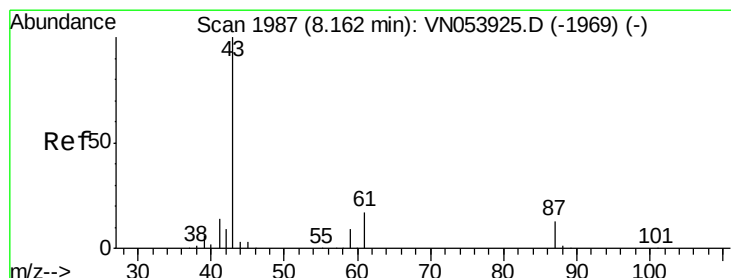
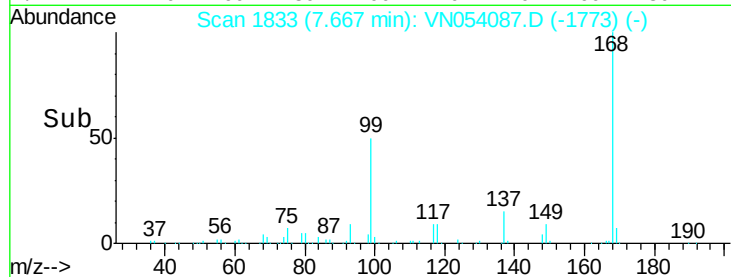
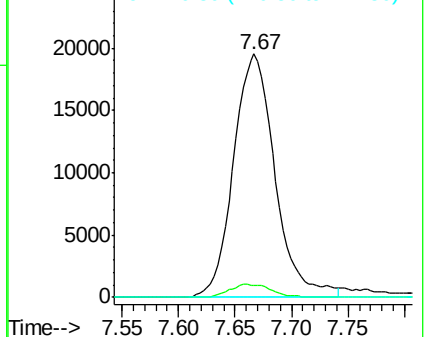
117 100

119 4.7 76.2 114.2#

121 0.0 24.6 36.8#



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: 2.990 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

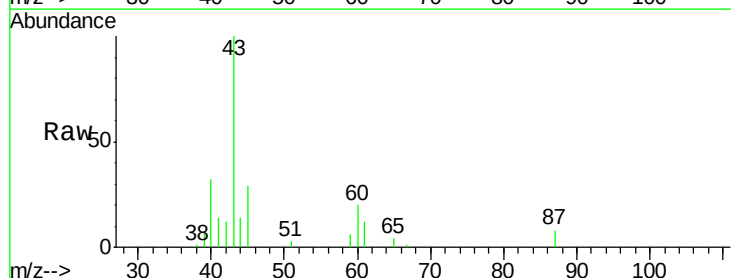
Tgt Ion: 43 Resp: 35461

Ion Ratio Lower Upper

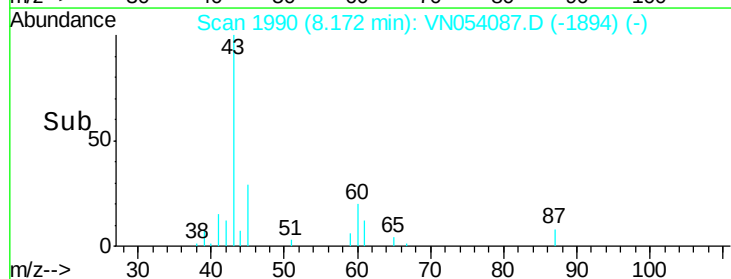
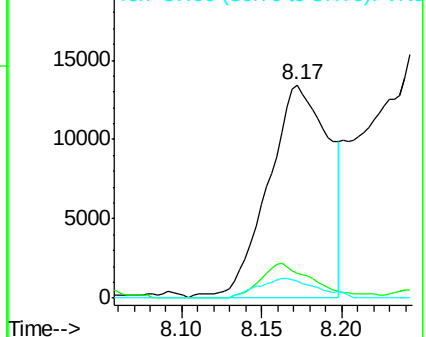
43 100

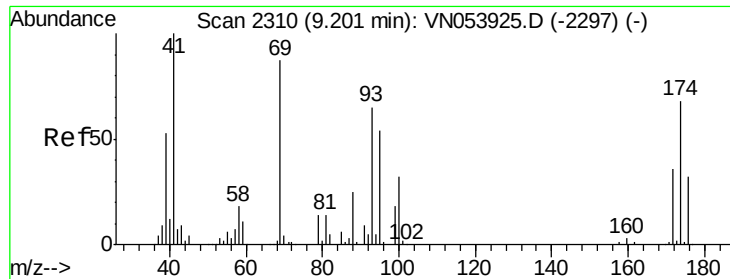
61 13.7 17.4 26.0#

87 8.7 11.5 17.3#



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





#48

Methvl methacrylate

Concen: 2.037 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

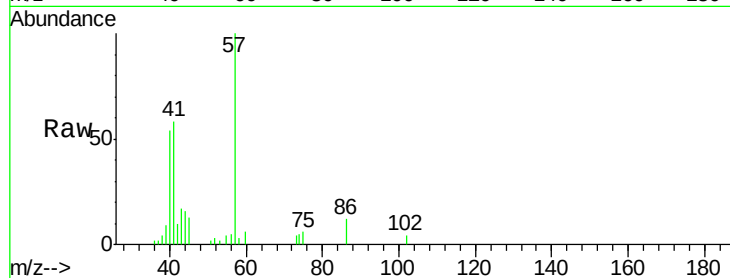
Tot Ion: 41 Resp: 11112

Ion Ratio Lower Upper

41 100

69 0.0 74.8 112.2#

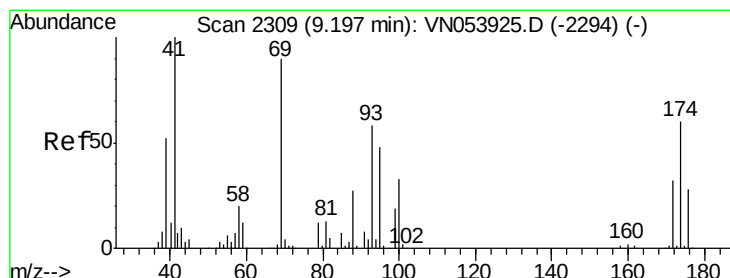
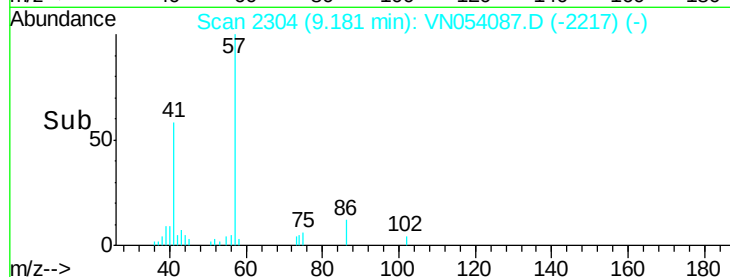
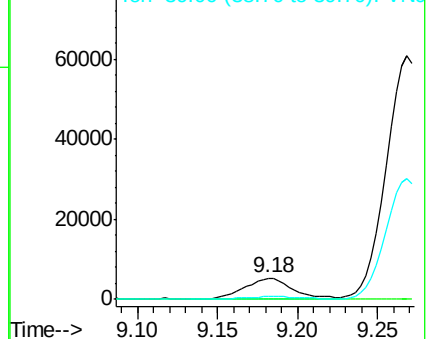
39 0.0 39.0 58.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#49

1,4-Dioxane

Concen: 0.406 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

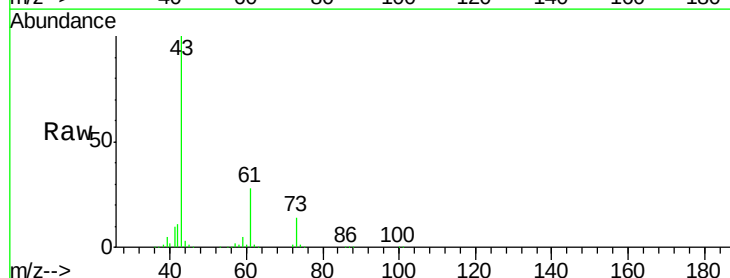
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 4226003.3 21.2 31.8#

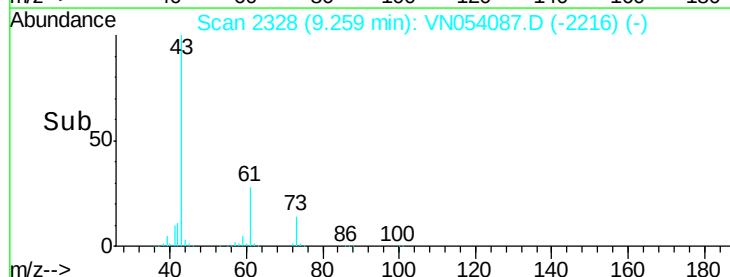
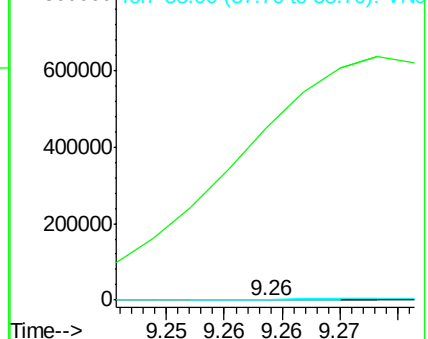
58 22950.0 54.2 81.2#

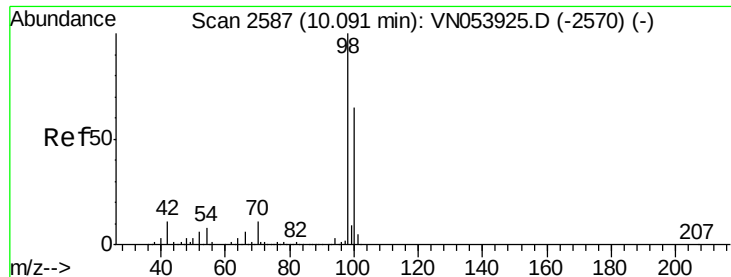


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 53.087 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054087.D

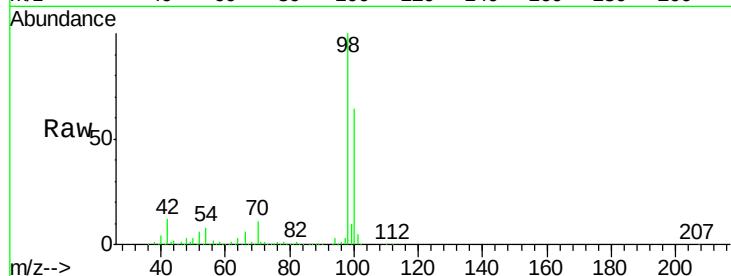
Acq: 5 Mar 2019 00:55

Tot Ion: 98 Resp: 1351752

Ion Ratio Lower Upper

98 100

100 63.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053925.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053925.D (-2570) (-)

10.09

800000

600000

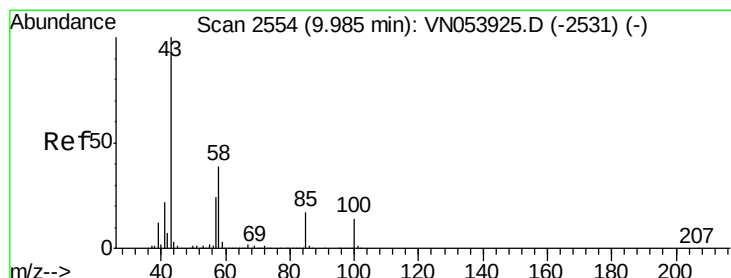
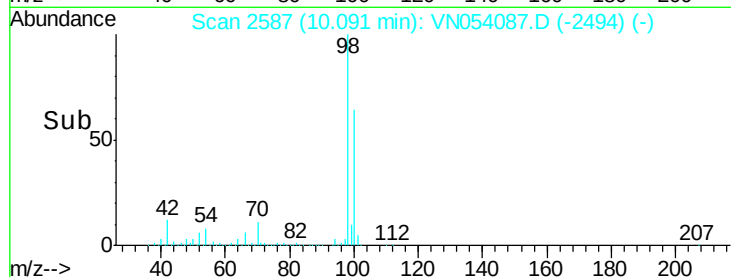
400000

200000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 1.313 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054087.D

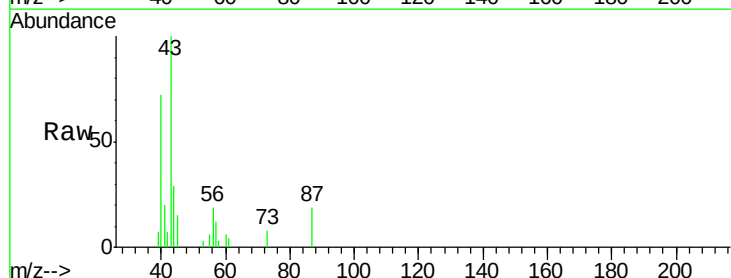
Acq: 5 Mar 2019 00:55

Tgt Ion: 43 Resp: 8001

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN053925.D (-2531) (-)

10.02

6000

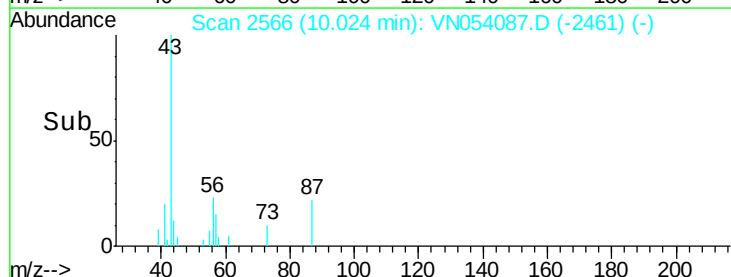
4000

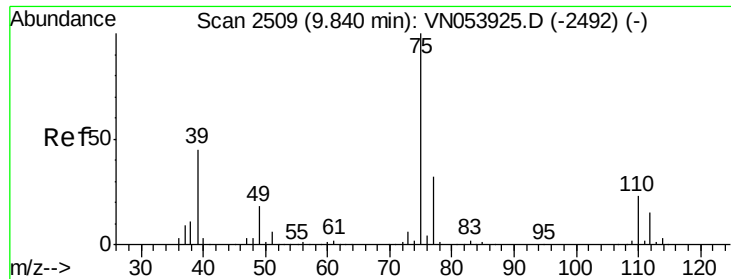
2000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 4.651 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

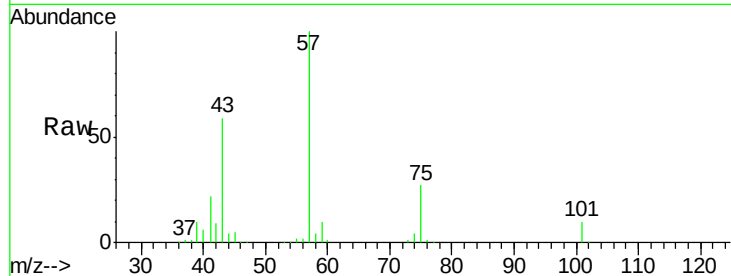
Tot Ion: 75 Resp: 53215

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

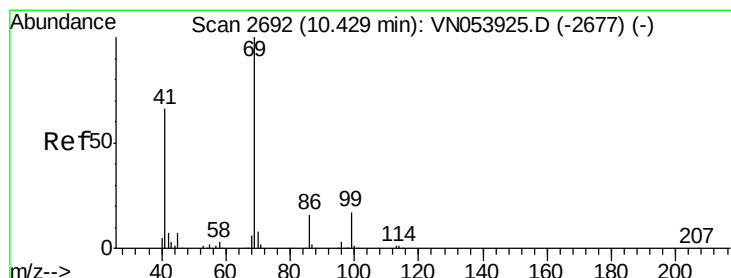
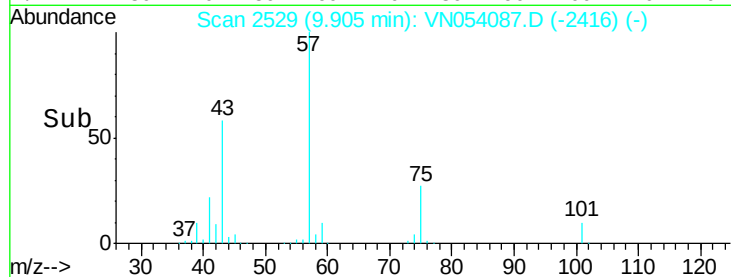
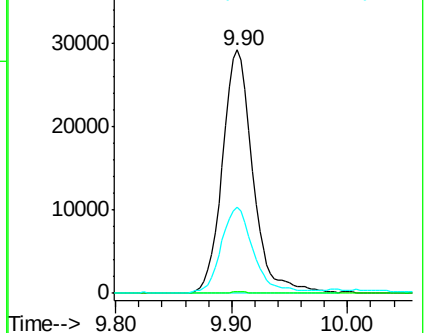
39 35.5 31.4 47.0



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



#56

Ethyl methacrylate

Concen: 2.076 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

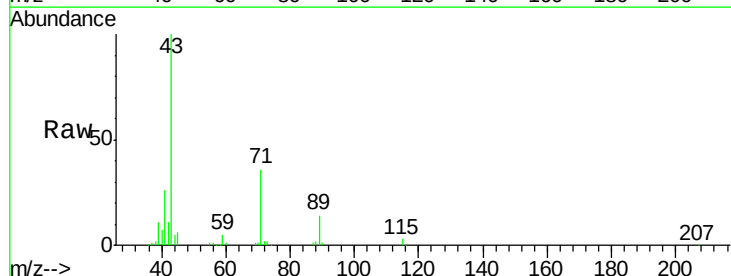
Tgt Ion: 69 Resp: 1098

Ion Ratio Lower Upper

69 100

41 3855.0 47.5 71.3#

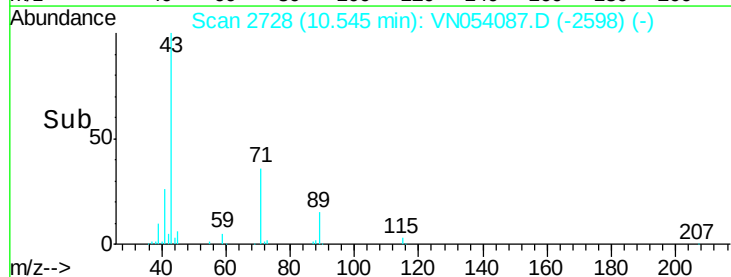
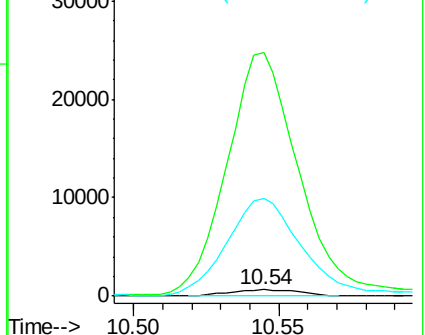
39 1673.8 23.4 35.0#

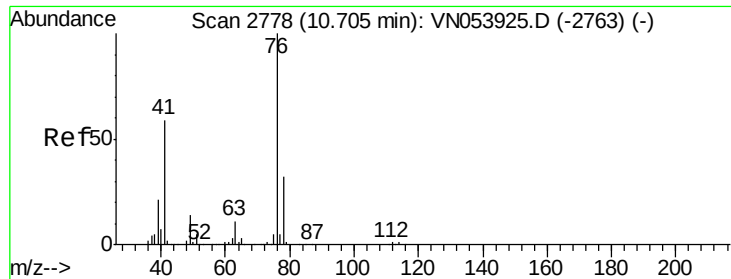


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

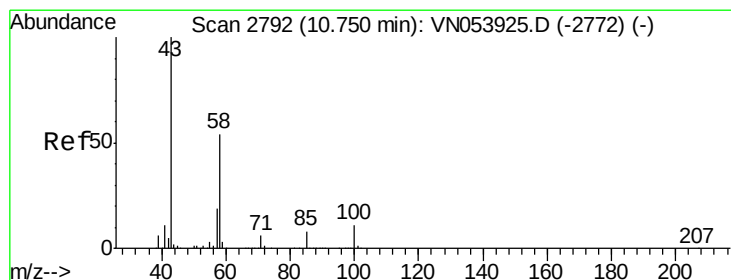
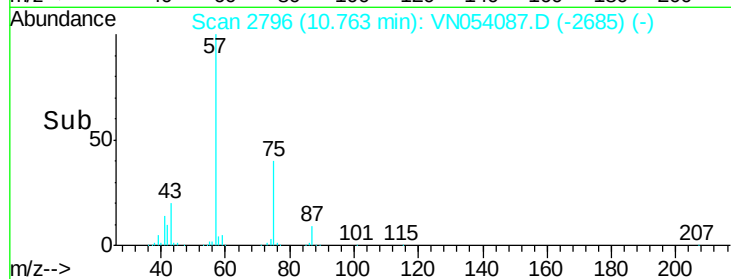
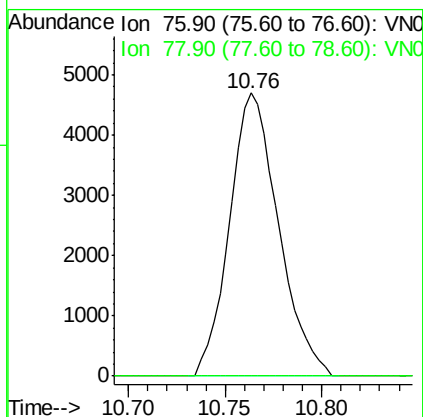
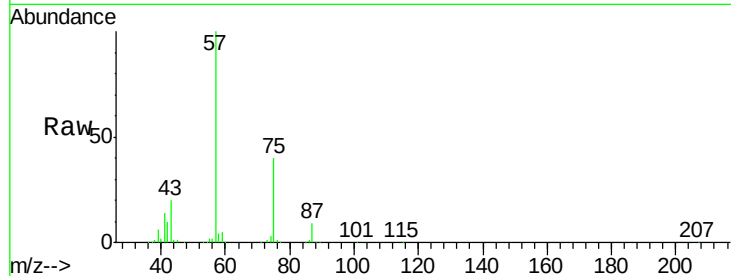
Ion 39.00 (38.70 to 39.70): VN0





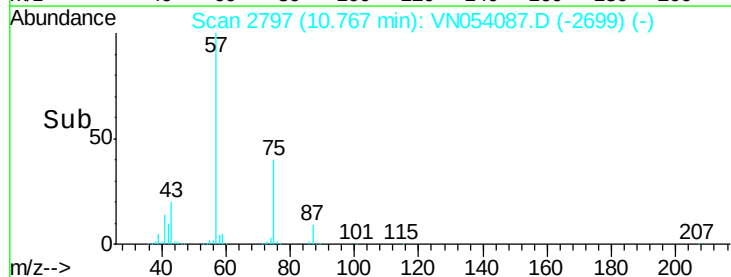
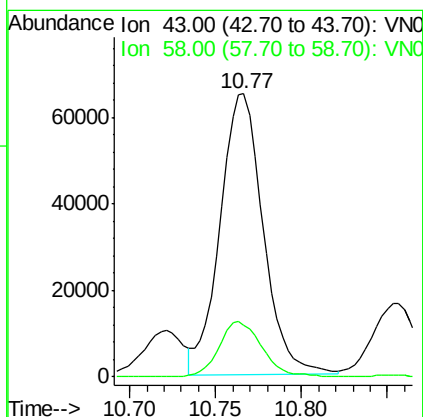
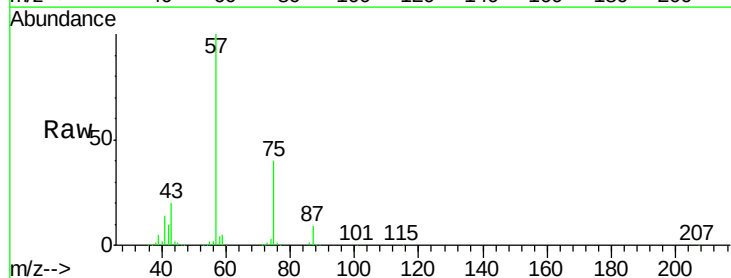
#57
 1,3-Dichloropropane
 Concen: 0.735 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

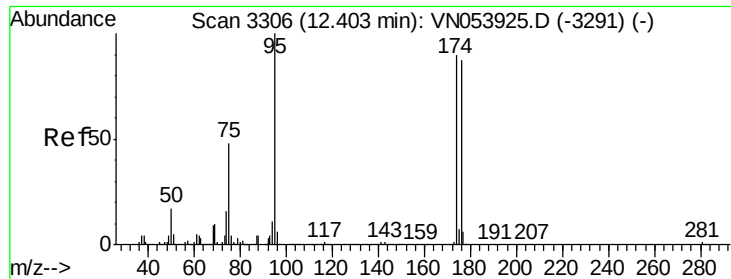
Tot Ion: 76 Resp: 8254
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 28.636 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

Tgt Ion: 43 Resp: 113499
 Ion Ratio Lower Upper
 43 100
 58 19.7 29.1 87.4#





#62

4-Bromofluorobenzene

Concen: 53.312 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

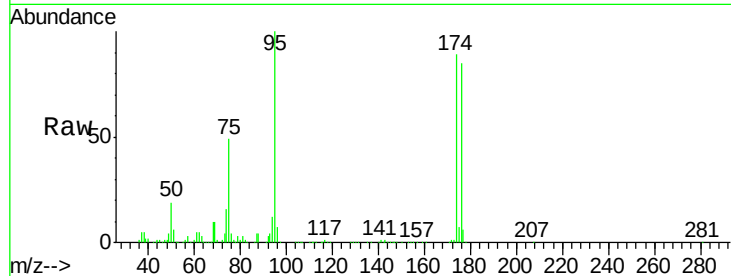
Tot Ion: 95 Resp: 452278

Ion Ratio Lower Upper

95 100

174 88.0 0.0 188.8

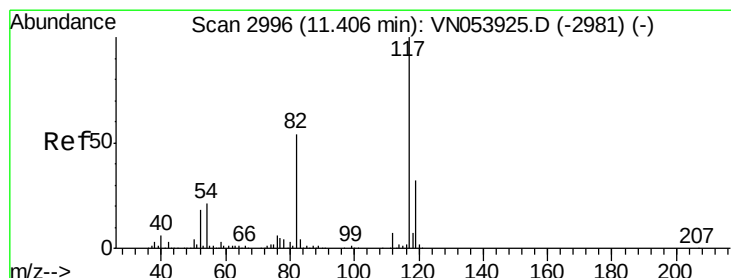
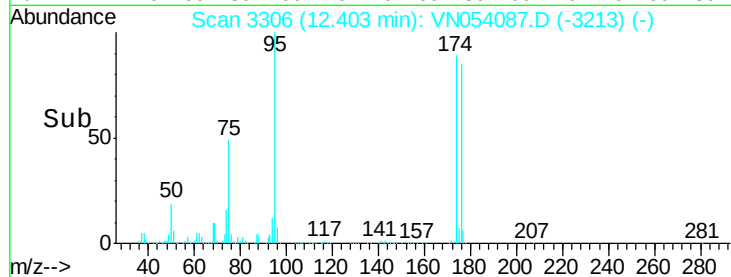
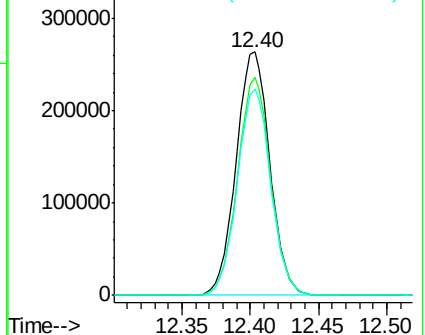
176 83.8 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN054087.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN054087.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN054087.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054087.D

Acq: 5 Mar 2019 00:55

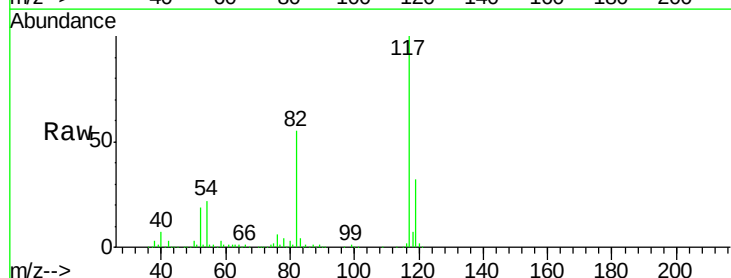
Tgt Ion: 117 Resp: 1048246

Ion Ratio Lower Upper

117 100

82 55.3 41.4 62.2

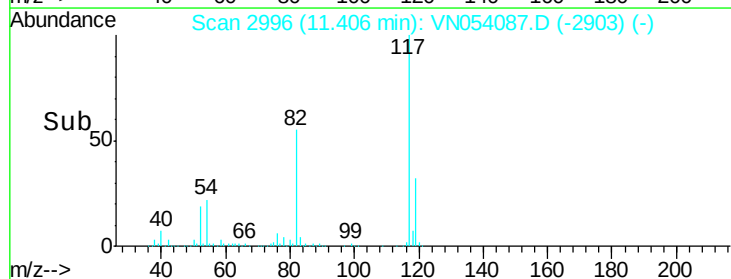
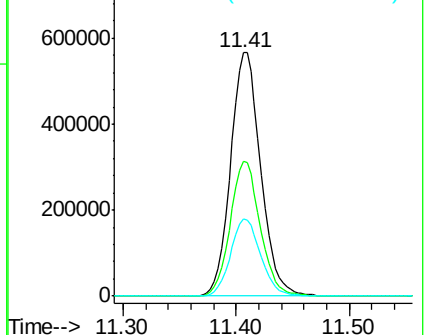
119 31.6 25.3 37.9

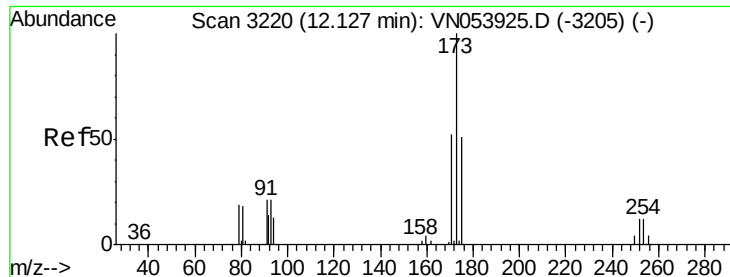


Abundance Ion 116.90 (116.60 to 117.60): VN054087.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054087.D (-2903) (-)

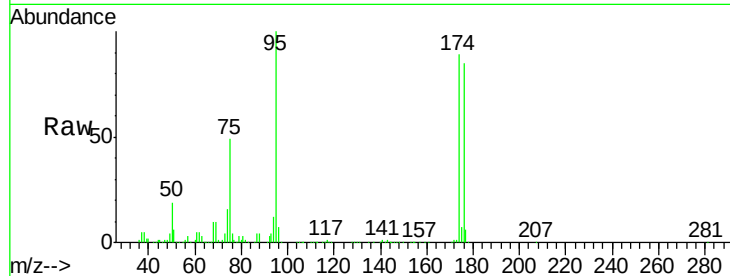
Ion 118.90 (118.60 to 119.60): VN054087.D (-2903) (-)



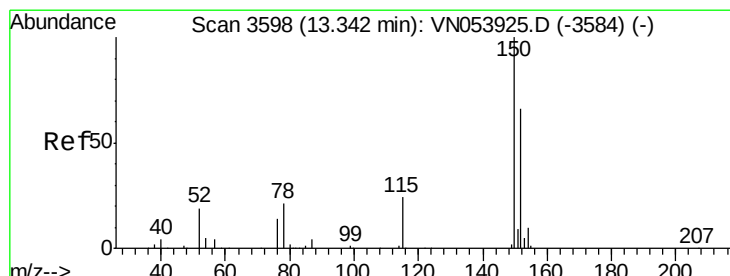
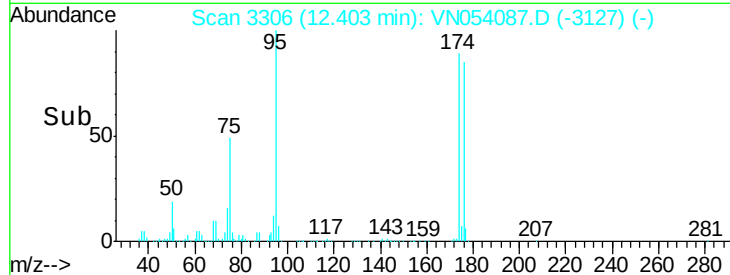
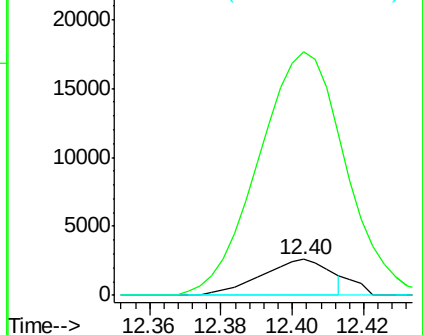


#71
Bromoform
Concen: 0.624 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

Tot Ion:173 Resp: 3461
Ion Ratio Lower Upper
173 100
175 736.1 24.3 72.8#
254 0.0 0.2 0.2#

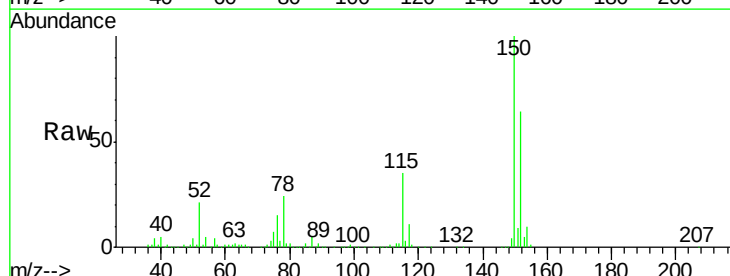


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

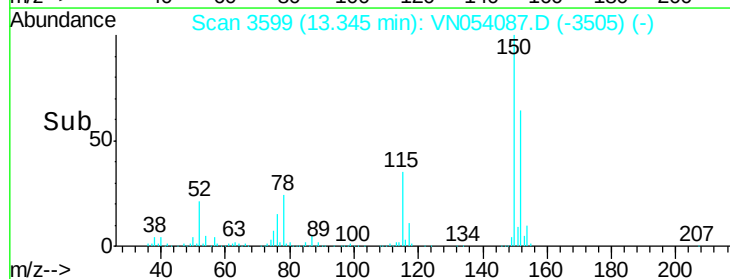
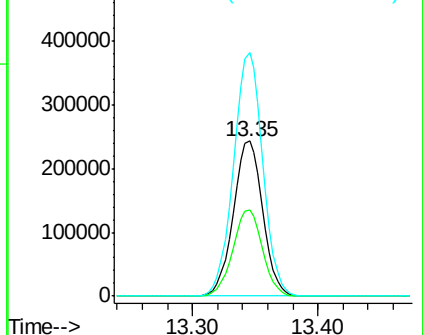


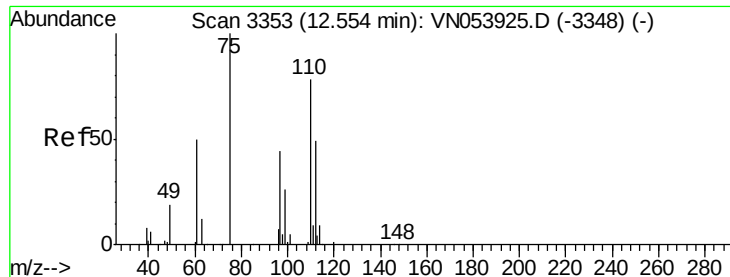
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

Tgt Ion:152 Resp: 395366
Ion Ratio Lower Upper
152 100
115 56.1 27.2 81.6
150 156.4 0.0 348.2



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

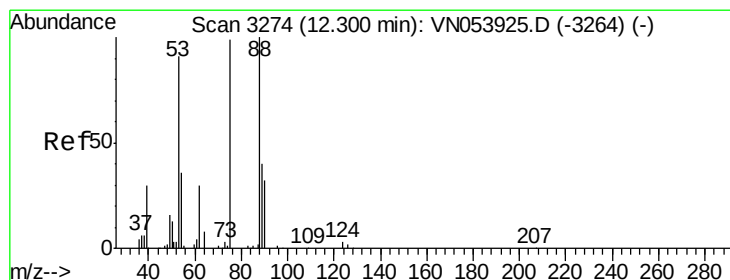
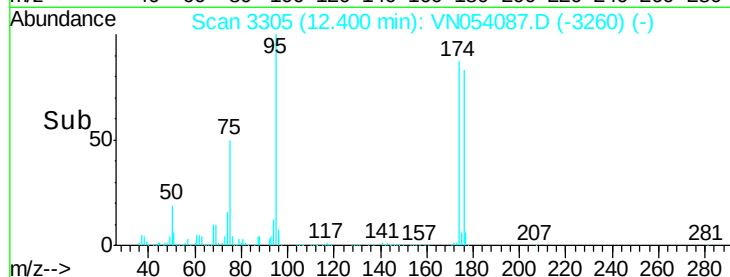
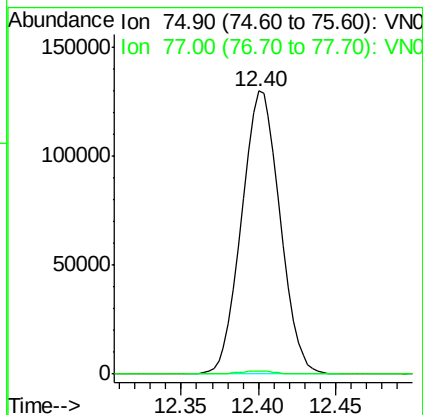
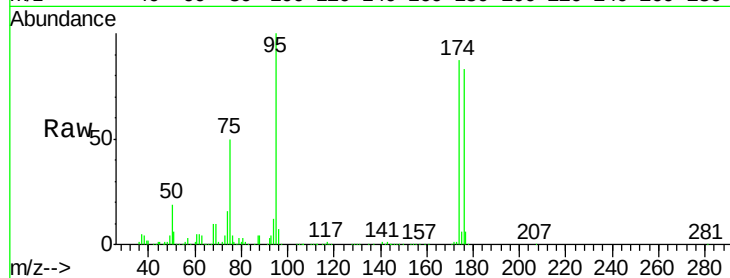




#76

1,2,3-Trichloropropane
Concen: 35.388 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

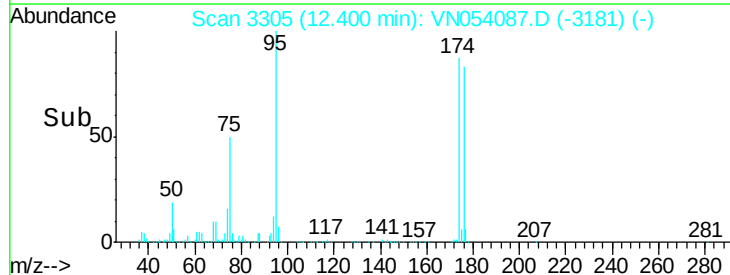
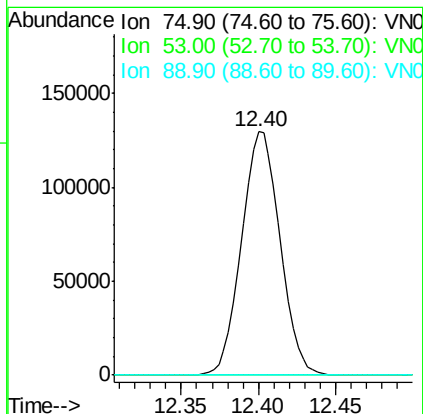
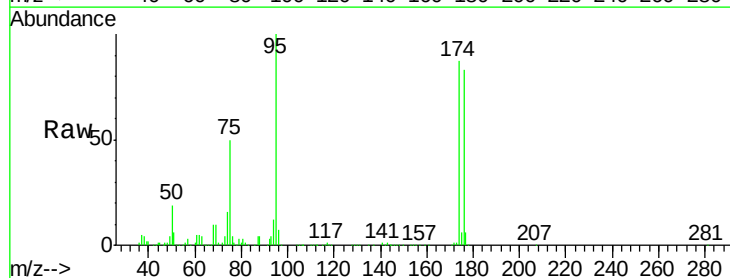
Tot Ion: 75 Resp: 224442
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

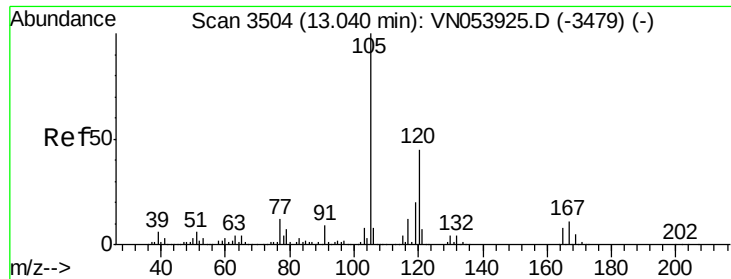


#81

trans-1,4-Dichloro-2-butene
Concen: 111.847 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054087.D
Acq: 5 Mar 2019 00:55

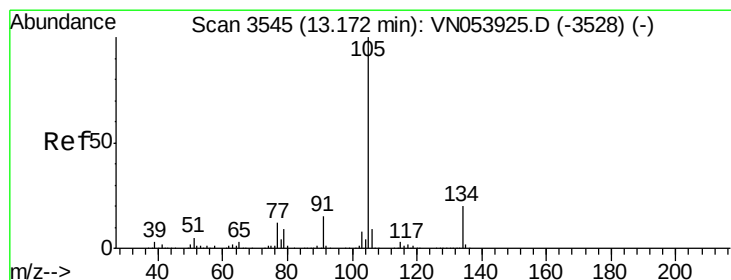
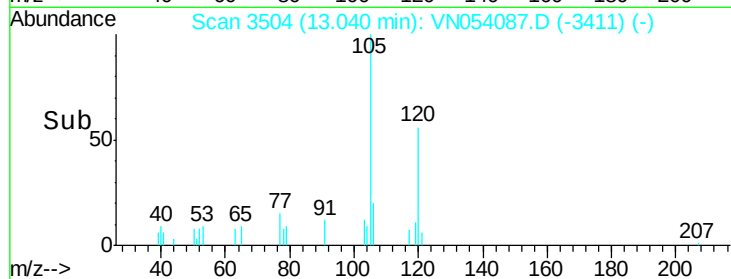
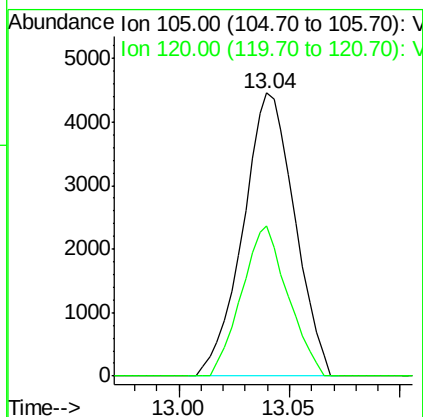
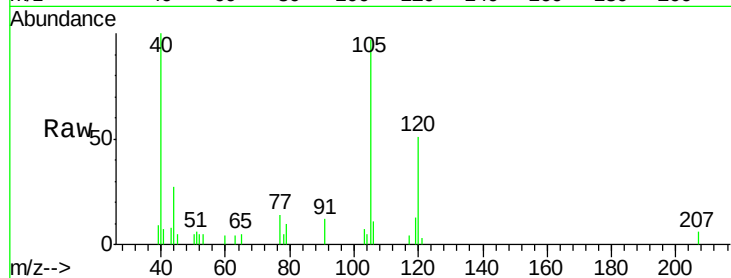
Tgt Ion: 75 Resp: 224442
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.0 35.3 52.9#





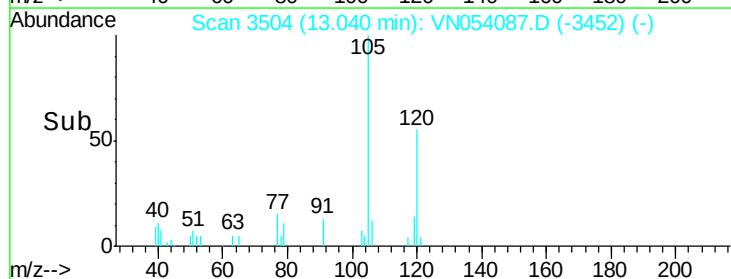
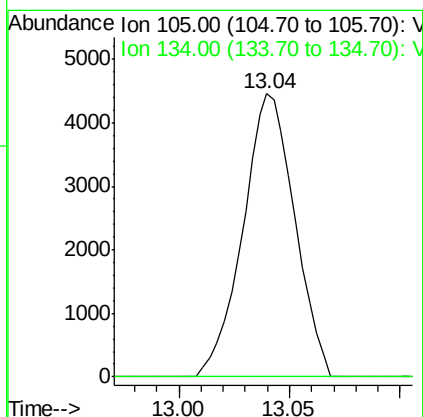
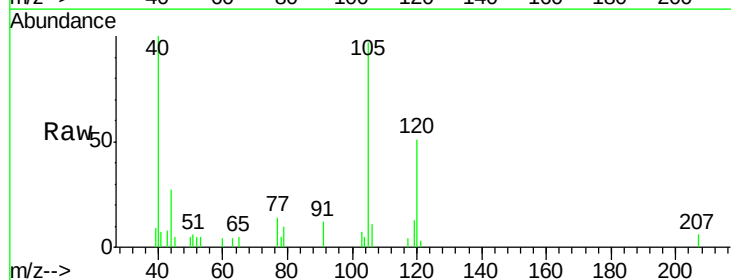
#84
 1,2,4-Trimethylbenzene
 Concen: 0.287 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

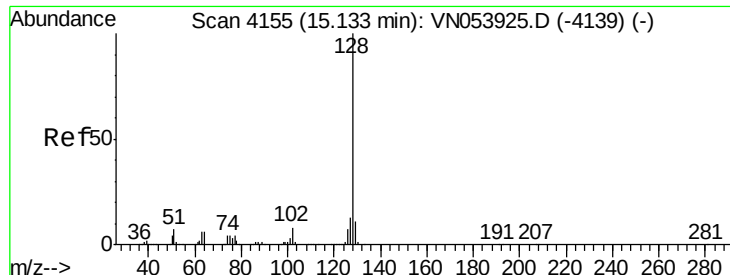
Tot Ion:105 Resp: 7227
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.2 69.5



#85
 sec-Butylbenzene
 Concen: 0.237 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.13 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

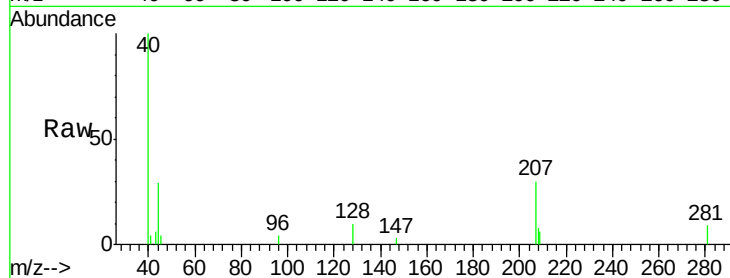
Tgt Ion:105 Resp: 7227
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.1#





#95
 Naphthalene
 Concen: 3.251 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN054087.D
 Acq: 5 Mar 2019 00:55

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.6	12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

