

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053449.D
 Acq On : 17 Jan 2019 21:47
 Operator : JC/SP
 Sample : PB116439ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Quant Time: Jan 18 00:14:09 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	907359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1419826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1358282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	593514	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	464596	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
35) Dibromofluoromethane	7.59	113	413042	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
50) Toluene-d8	10.09	98	1782036	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.40	95	614097	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	

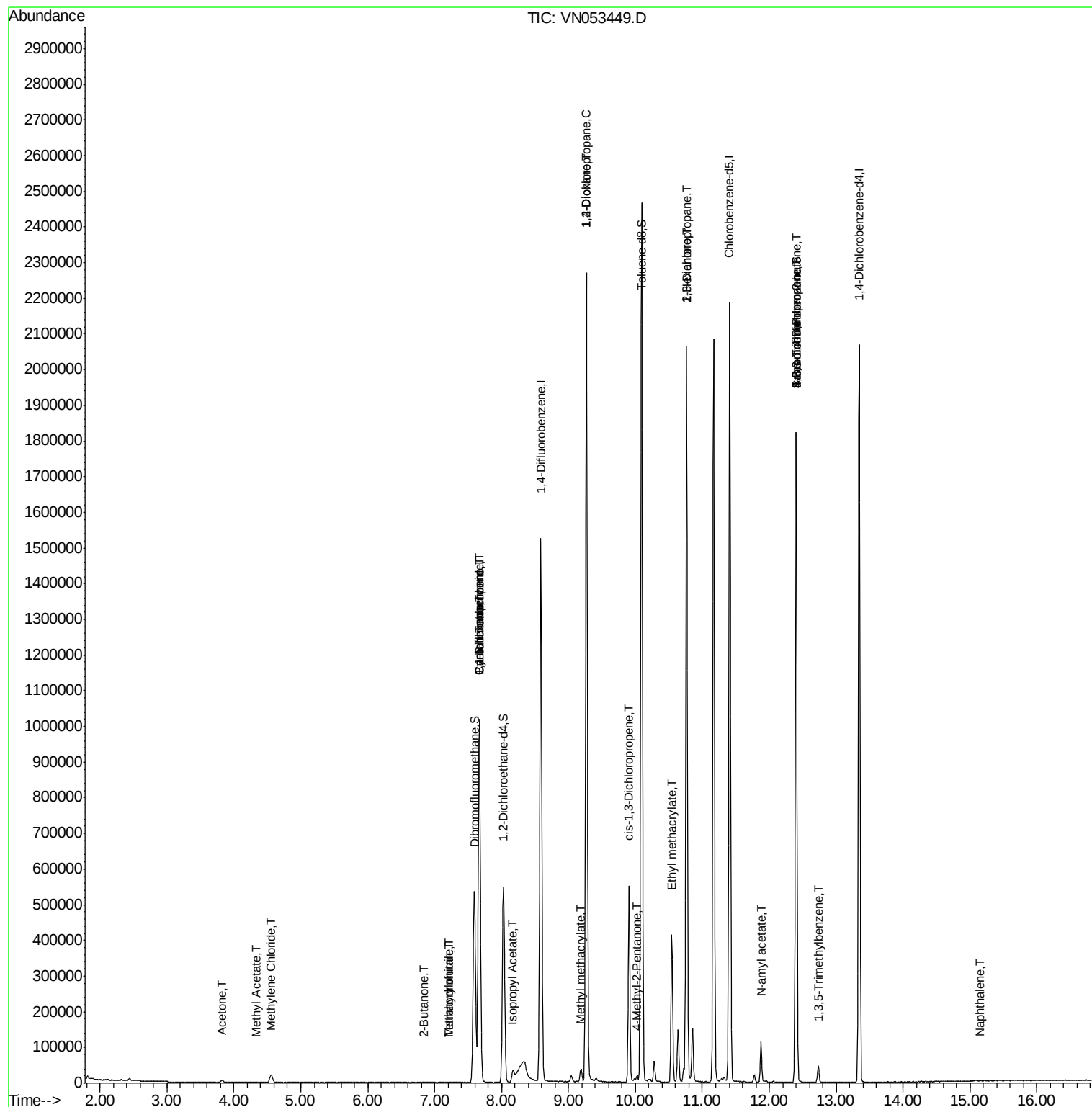
Target Compounds

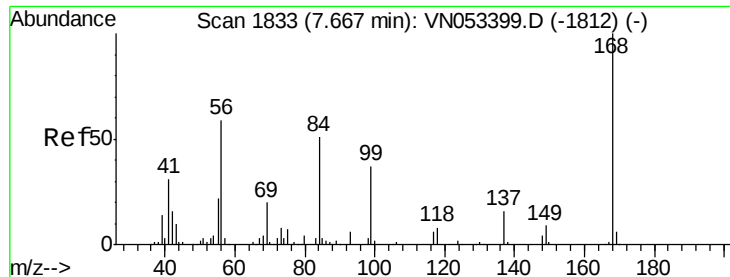
					Qvalue	
16) Acetone	3.82	43	12677	6.025	ug/l	92
18) Methyl Acetate	4.33	43	3123	0.441	ug/l #	77
20) Methylene Chloride	4.56	84	17147	1.785	ug/l	97
25) 2-Butanone	6.83	43	901	0.278	ug/l #	47
29) Tetrahydrofuran	7.22	42	1706	0.808	ug/l #	46
31) Cyclohexane	7.67	56	13856	0.658	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	59720	4.619	ug/l #	48
38) Carbon Tetrachloride	7.67	117	77660	6.344	ug/l #	16
41) Methacrylonitrile	7.21	41	406	0.758	ug/l #	37
43) Isopropyl Acetate	8.17	43	46739	3.494	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	2742	0.263	ug/l #	43
48) Methyl methacrylate	9.18	41	13479	1.952	ug/l #	12
49) 1,4-Dioxane	9.26	88	256	3.795	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	15639	2.142	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	101805	6.814	ug/l #	63
56) Ethyl methacrylate	10.54	69	1887	2.209	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	21549	1.481	ug/l #	43
59) 2-Hexanone	10.76	43	285334	55.663	ug/l #	50
71) Bromoform	12.40	173	4255	0.618	ug/l #	1
74) N-amyl acetate	11.88	43	33475	2.889	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	289623	37.030	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23923	0.677	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	289623	91.498	ug/l #	15
95) Naphthalene	15.14	128	143	3.948	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: VN053449.D

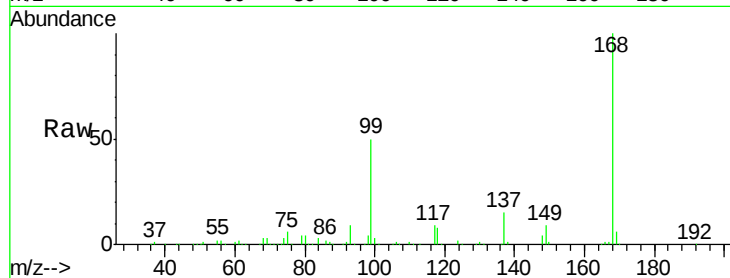
Acq: 17 Jan 2019 21:47

Tot Ion:168 Resp: 907359

Ion Ratio Lower Upper

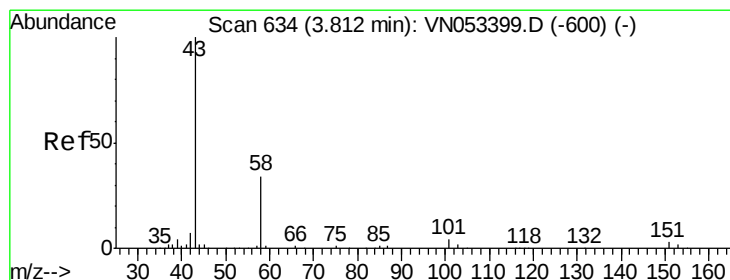
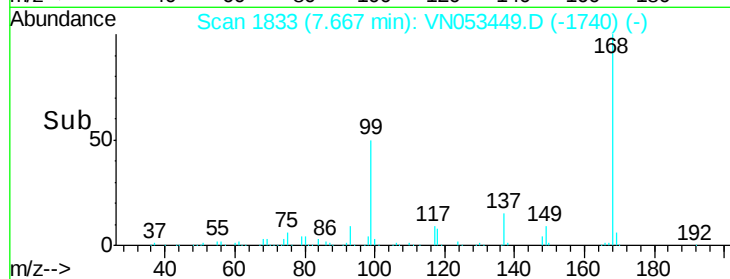
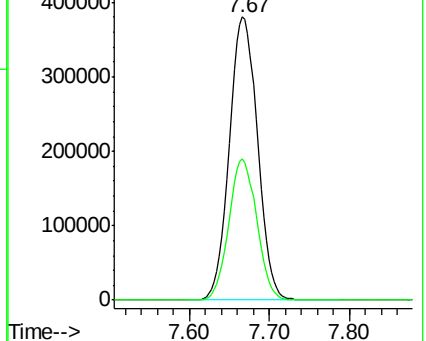
168 100

99 50.0 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: 6.025 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053449.D

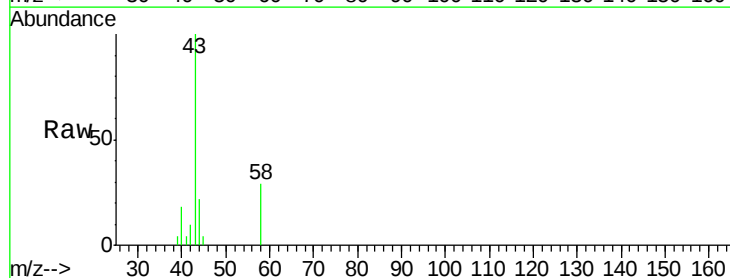
Acq: 17 Jan 2019 21:47

Tgt Ion: 43 Resp: 12677

Ion Ratio Lower Upper

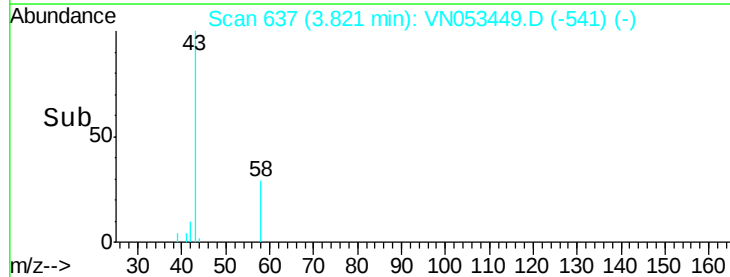
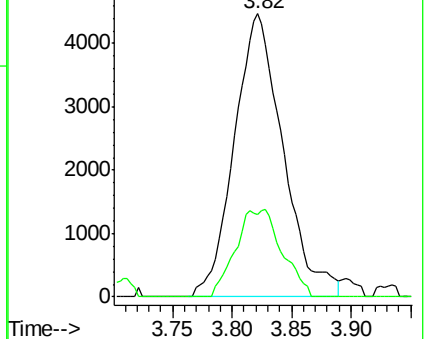
43 100

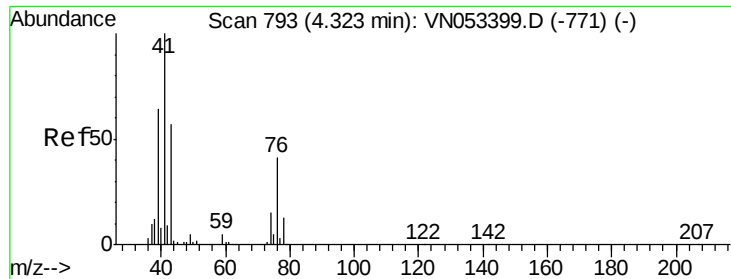
58 29.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

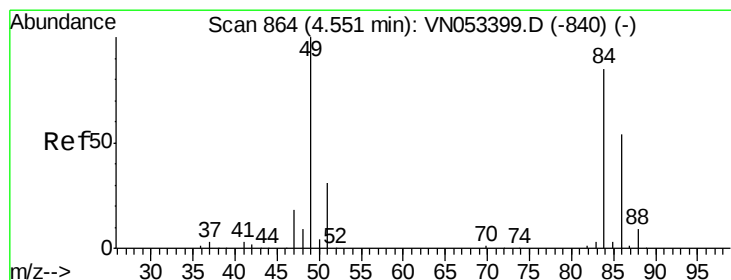
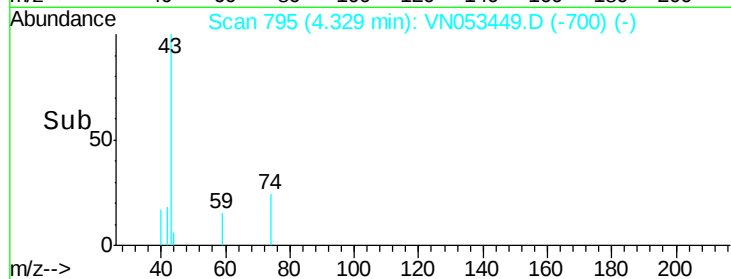
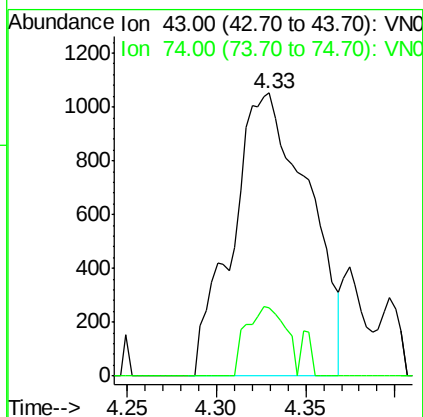
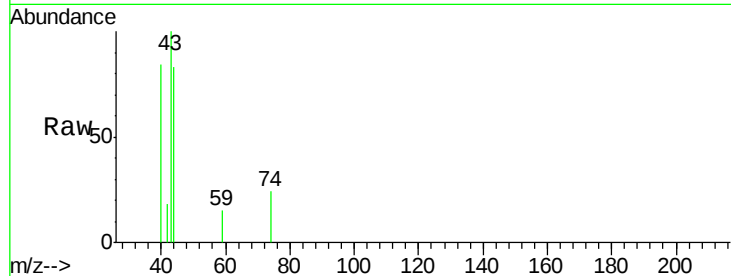
Ion 58.00 (57.70 to 58.70): VNO





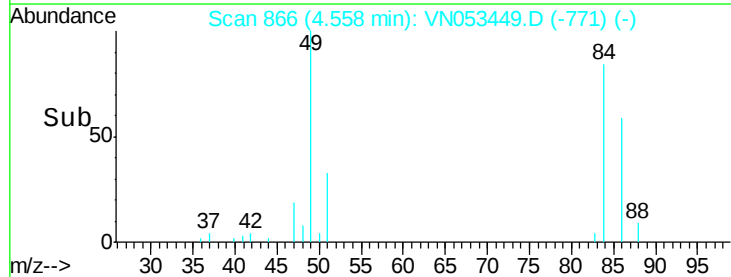
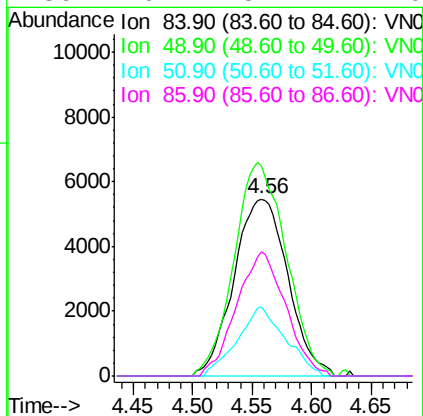
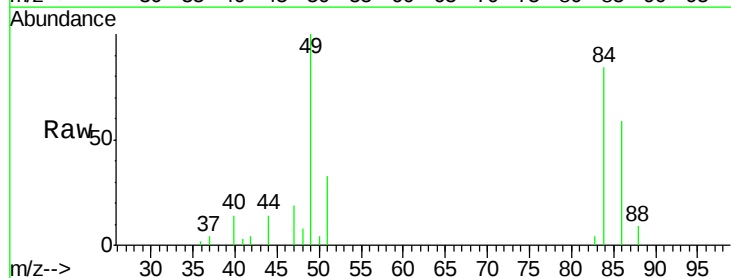
#18
Methyl Acetate
Concen: 0.441 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

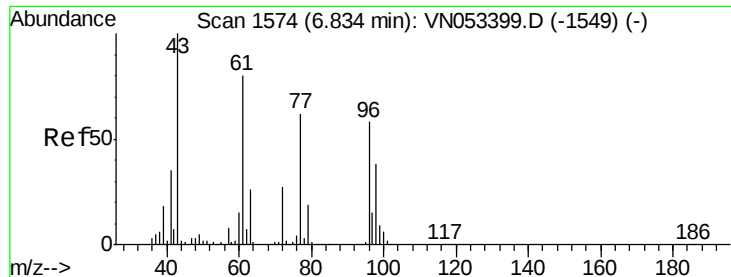
Tot Ion: 43 Resp: 3123
Ion Ratio Lower Upper
43 100
74 12.7 19.4 29.2#



#20
Methylene Chloride
Concen: 1.785 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

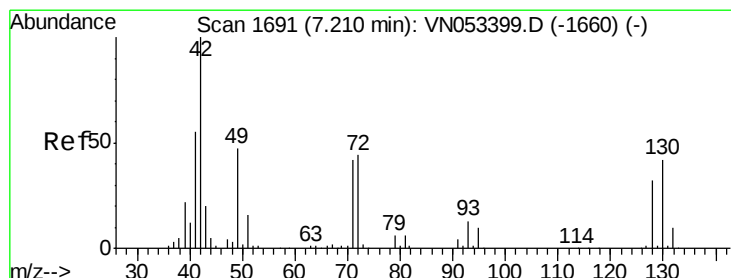
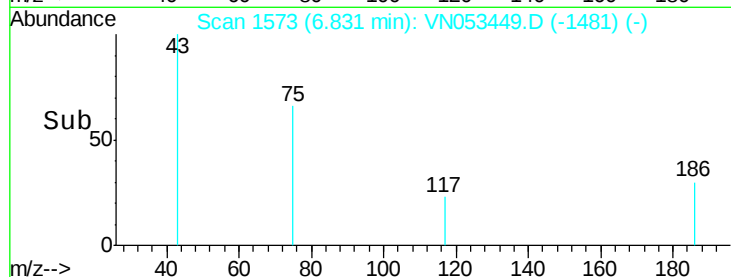
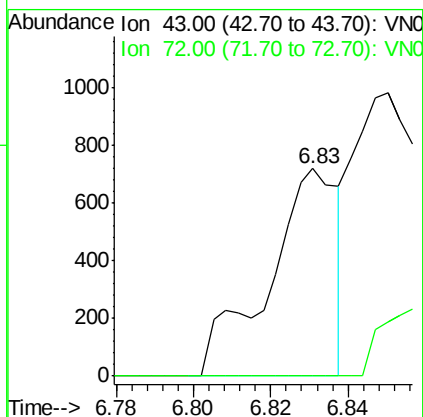
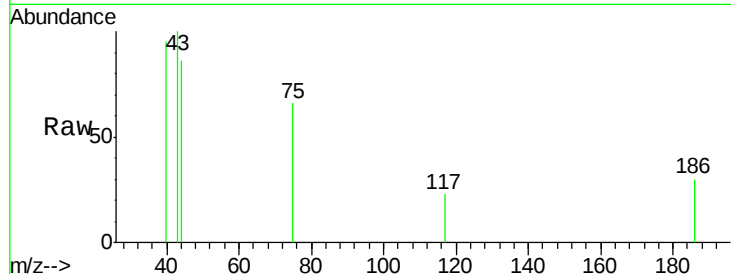
Tgt Ion: 84 Resp: 17147
Ion Ratio Lower Upper
84 100
49 118.8 94.3 141.5
51 39.3 29.4 44.2
86 70.2 51.4 77.0





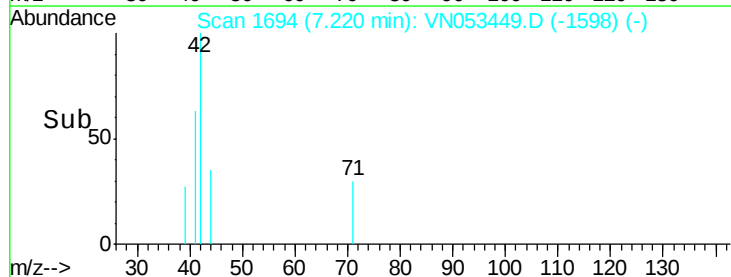
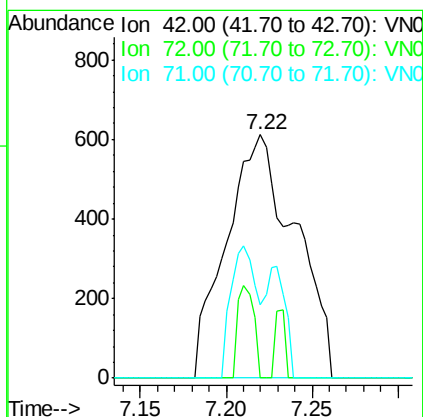
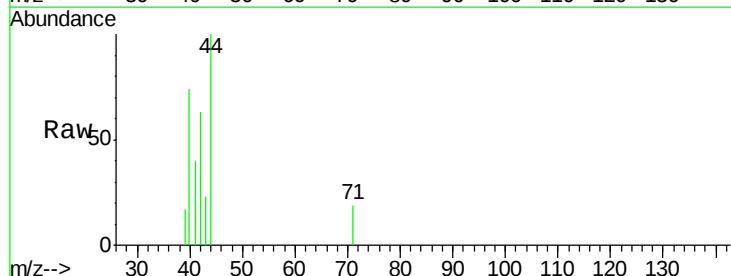
#25
2-Butanone
Concen: 0.278 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

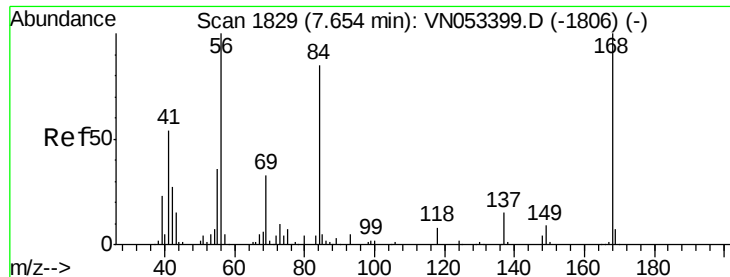
Tot Ion: 43 Resp: 901
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.808 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tgt Ion: 42 Resp: 1706
Ion Ratio Lower Upper
42 100
72 3.9 35.2 52.8#
71 12.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.658 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

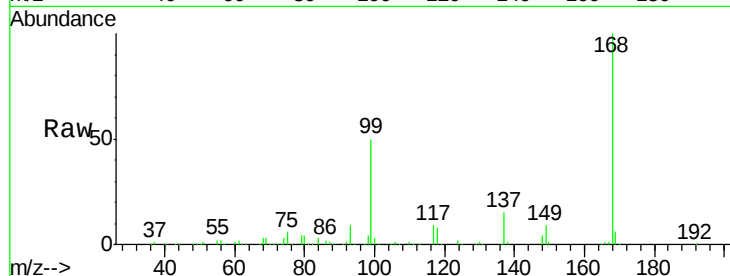
Tot Ion: 56 Resp: 13856

Ion Ratio Lower Upper

56 100

69 203.7 26.4 39.6#

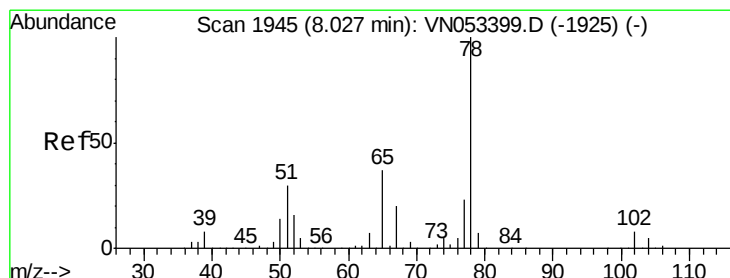
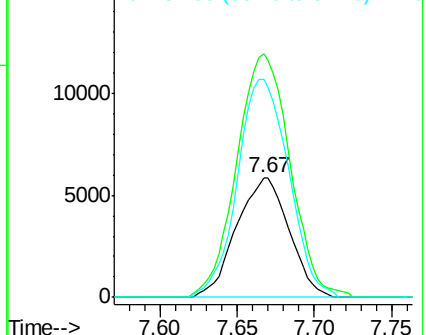
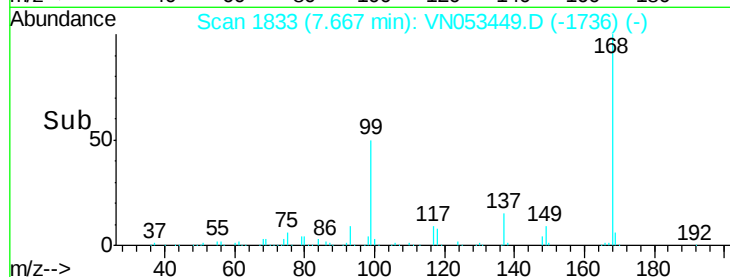
84 182.2 67.9 101.9#



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: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053449.D

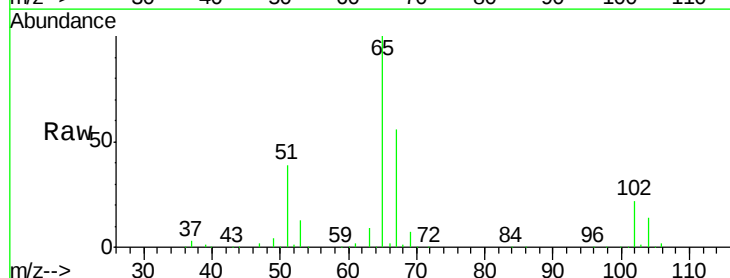
Acq: 17 Jan 2019 21:47

Tgt Ion: 65 Resp: 464596

Ion Ratio Lower Upper

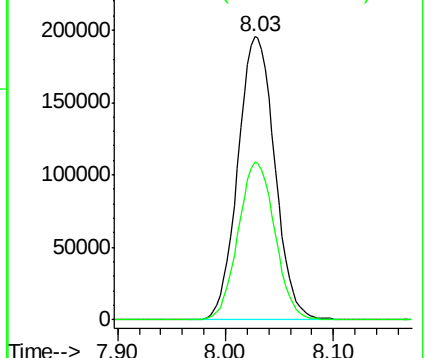
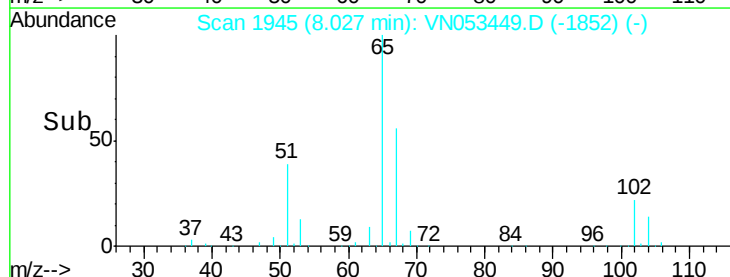
65 100

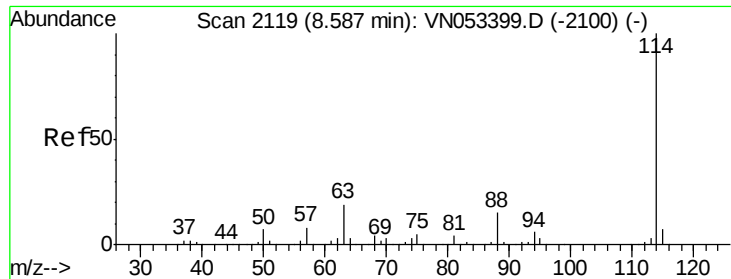
67 55.5 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

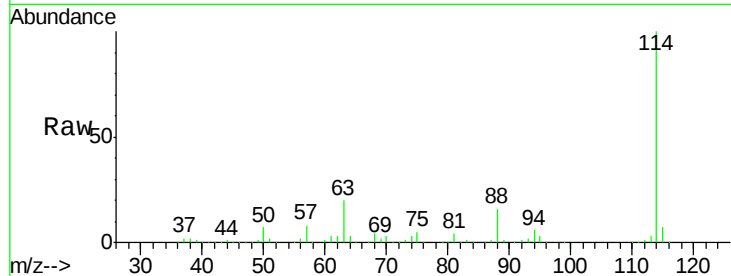




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053449.D
 Acq: 17 Jan 2019 21:47

Tot Ion:114 Resp: 1419826

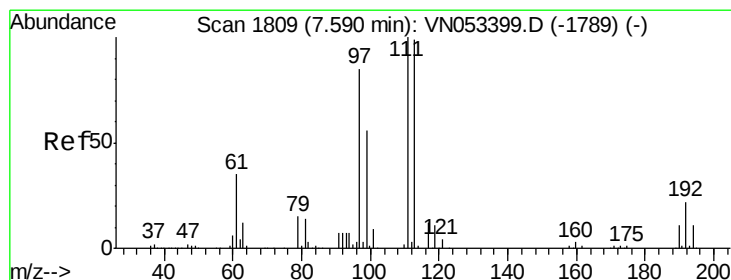
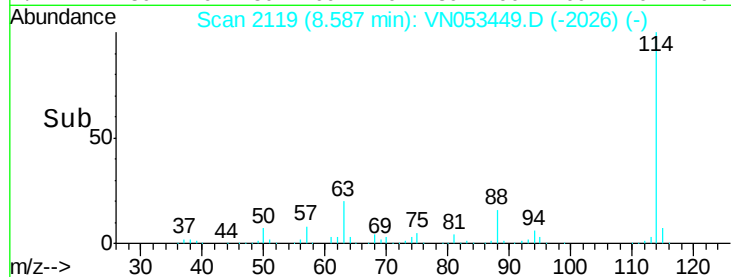
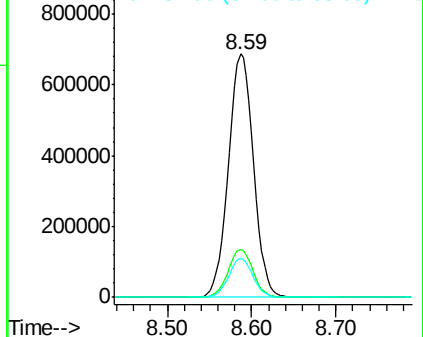
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.6
88	15.8	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

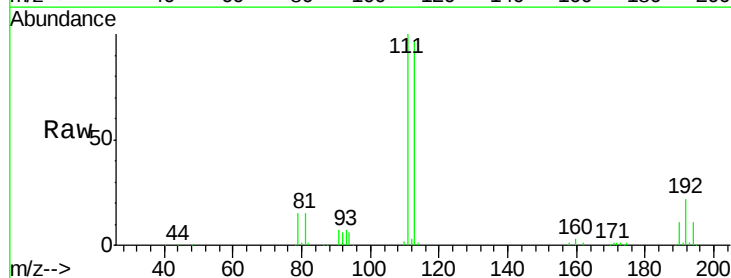
Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053449.D
 Acq: 17 Jan 2019 21:47

Tgt Ion:113 Resp: 413042

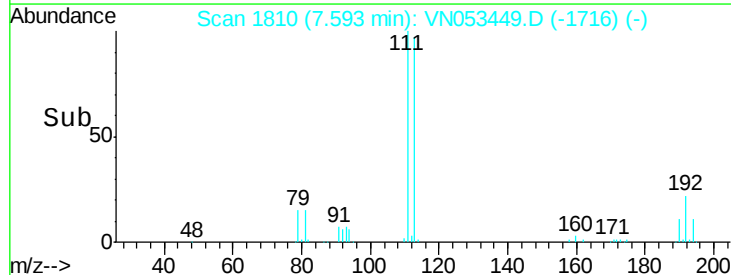
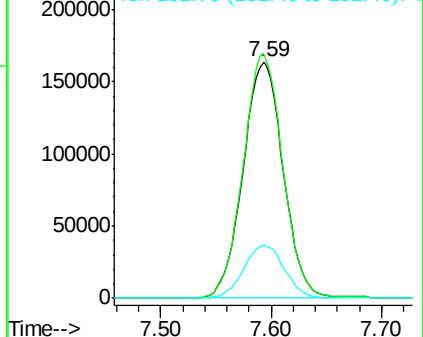
Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	22.8	18.2	27.2

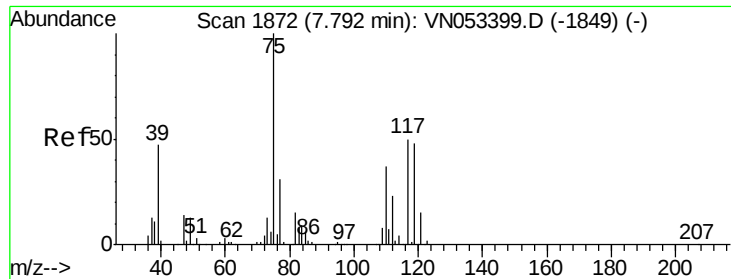


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.619 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

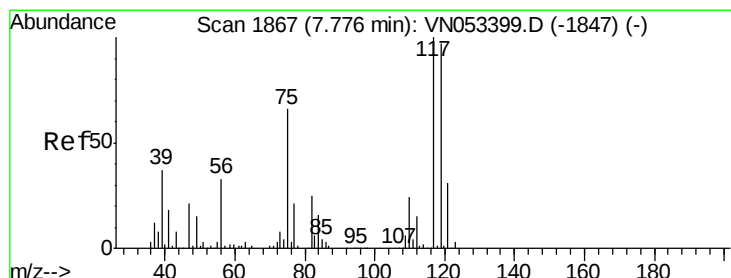
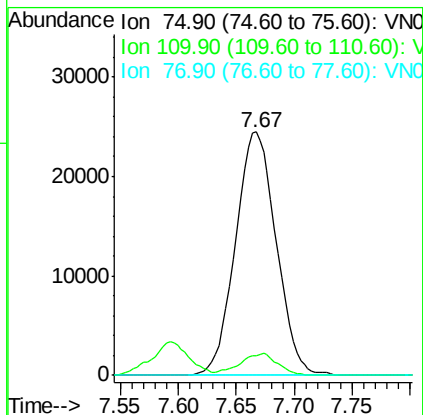
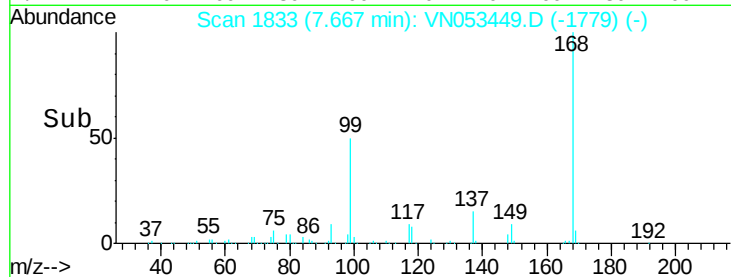
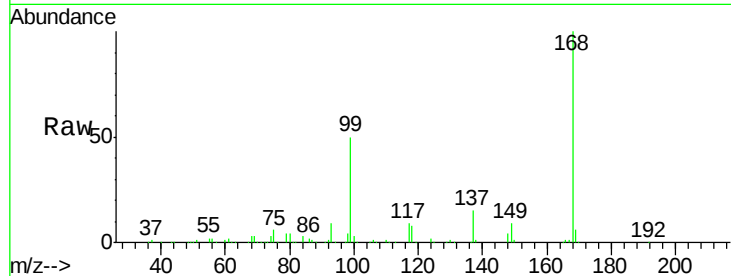
Tot Ion: 75 Resp: 59720

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.344 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

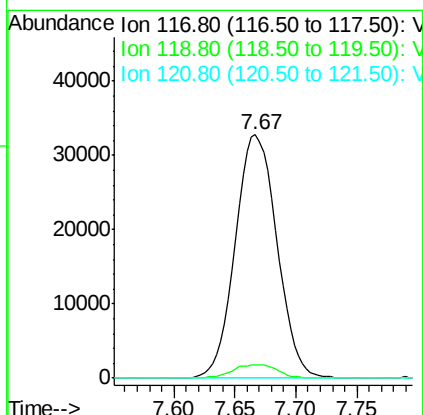
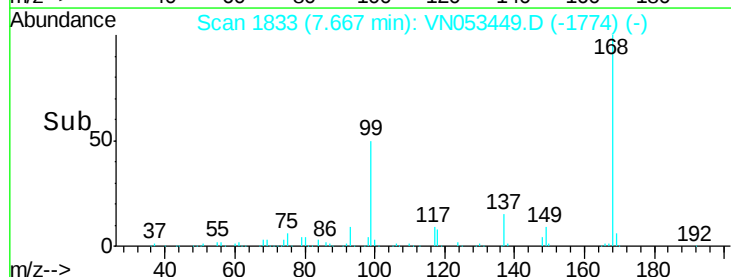
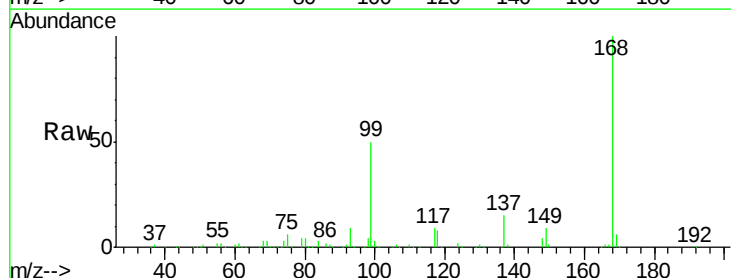
Tgt Ion: 117 Resp: 77660

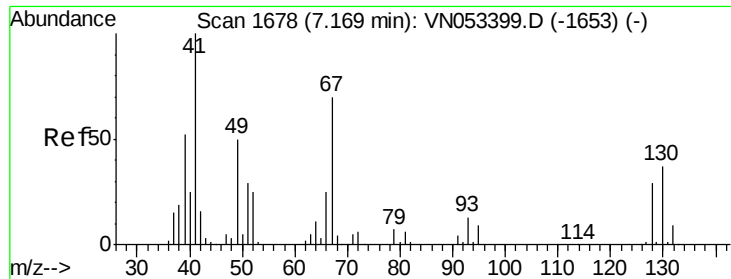
Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

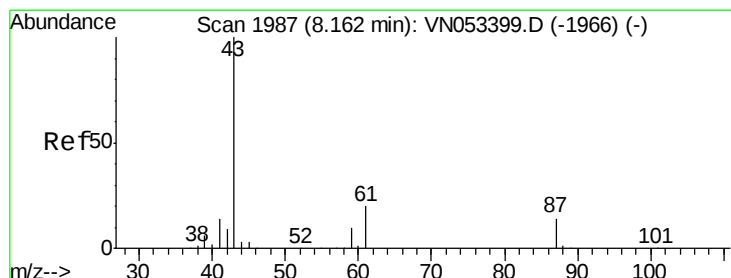
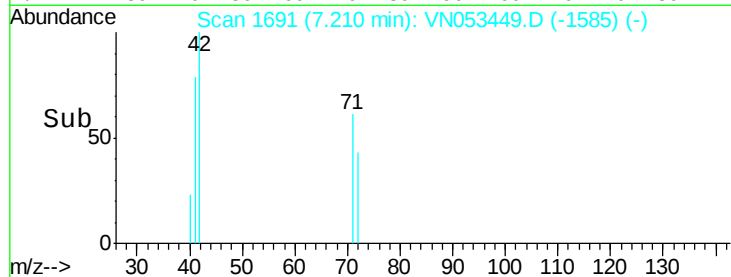
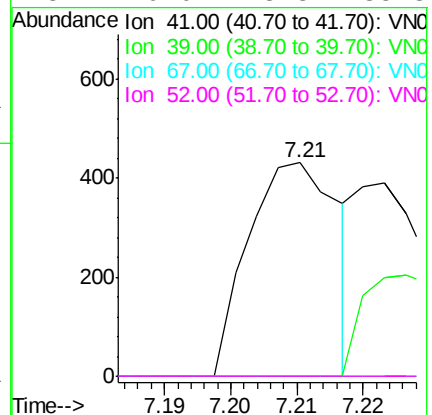
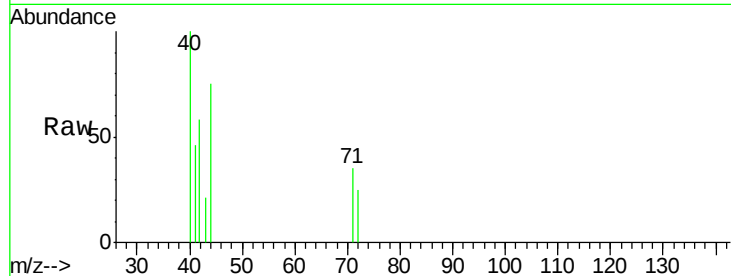
121 0.0 24.6 37.0#





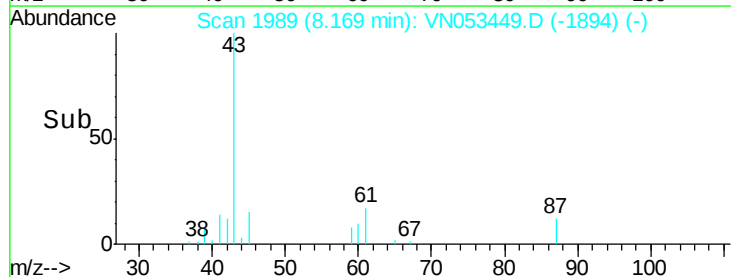
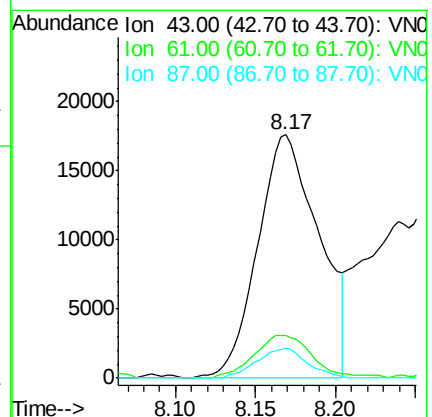
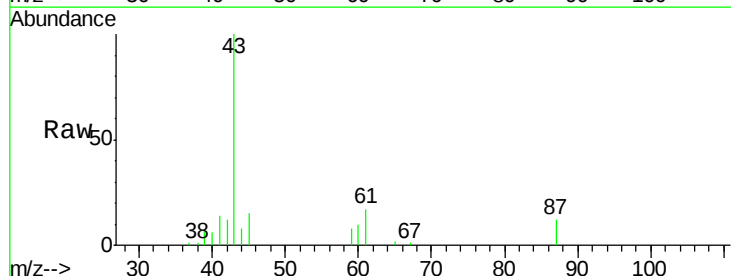
#41
Methacrylonitrile
Concen: 0.758 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.04 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

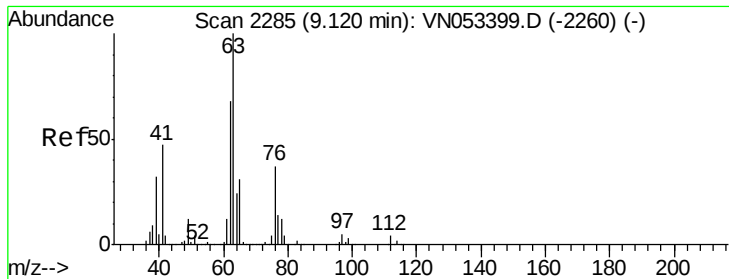
Tot Ion	Ratio	Lower	Upper
41	100		
39	36.2	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.494 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.7	23.9	35.9#
87	10.1	11.0	16.6#





#45

1,2-Dichloropropane

Concen: 0.263 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053449.D

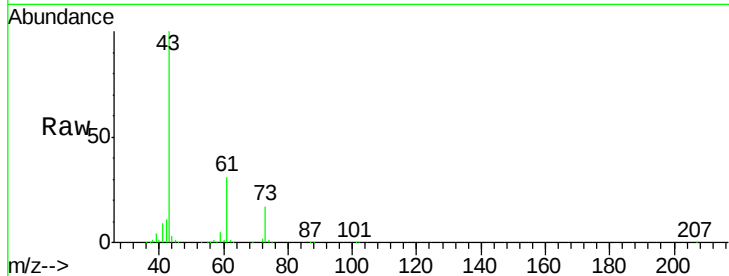
Acq: 17 Jan 2019 21:47

Tot Ion: 63 Resp: 2742

Ion Ratio Lower Upper

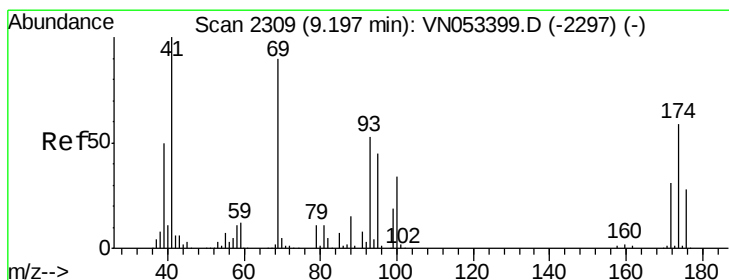
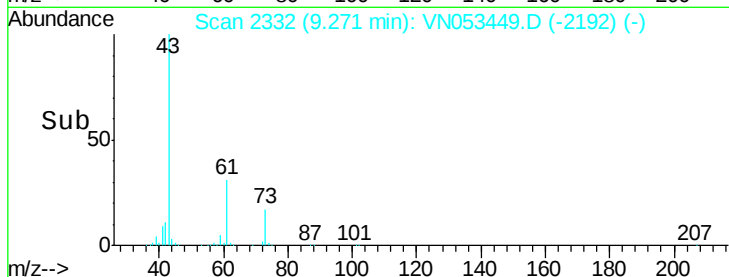
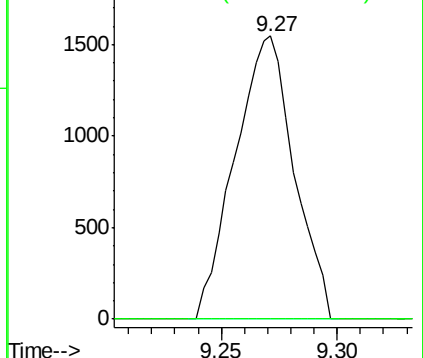
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.952 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

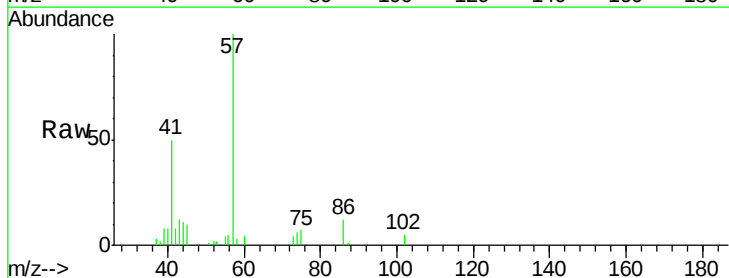
Tgt Ion: 41 Resp: 13479

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

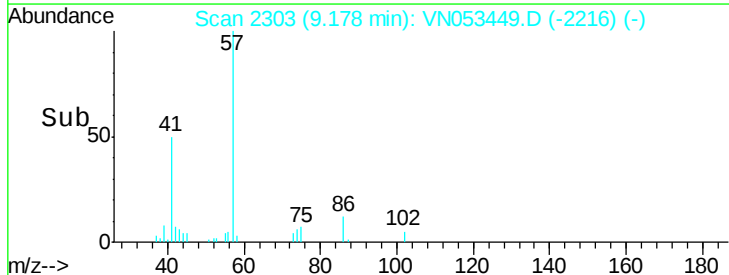
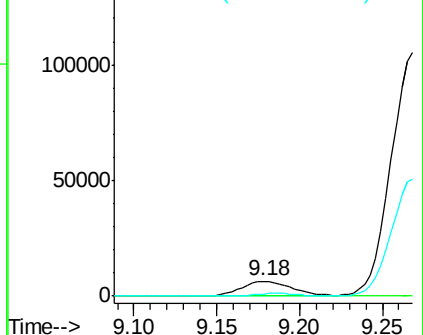
39 0.0 40.0 60.0#

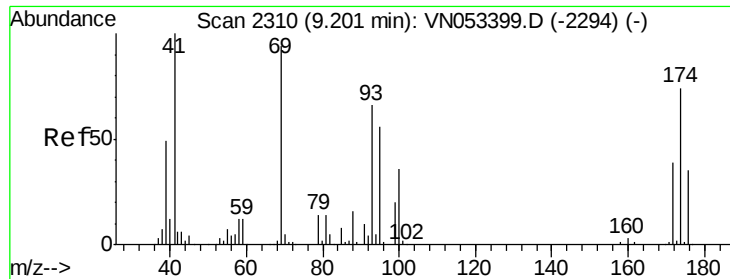


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 3.795 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

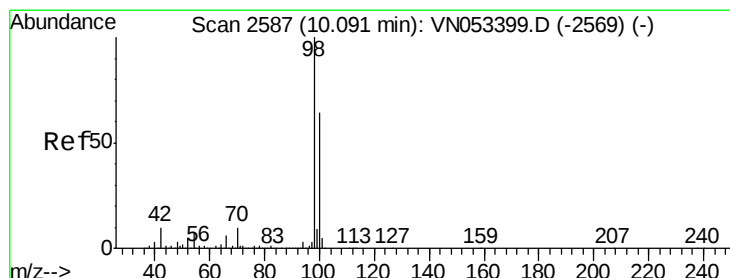
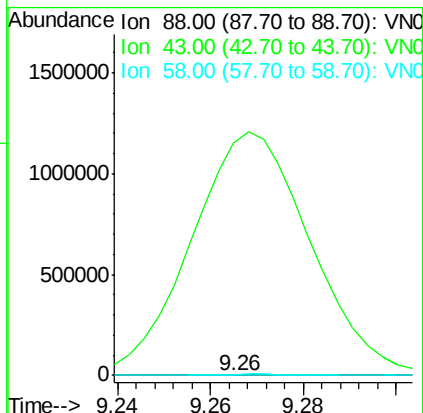
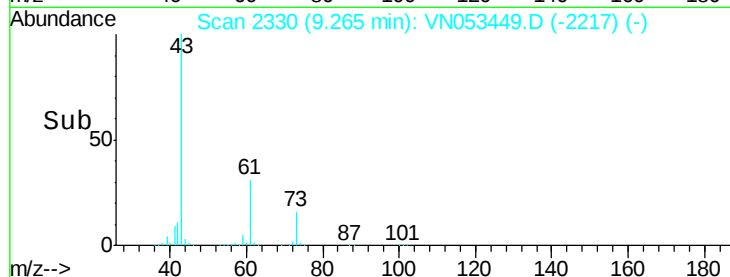
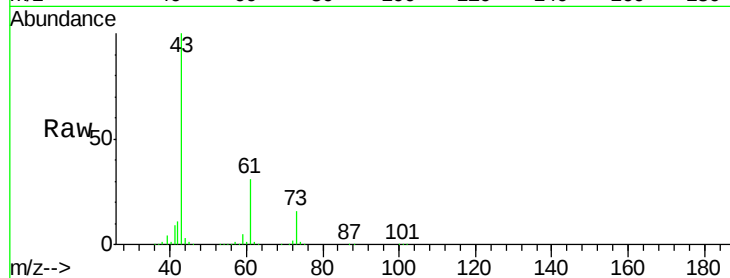
Tot Ion: 88 Resp: 256

Ion Ratio Lower Upper

88 100

43 850259.0 27.8 41.6#

58 4110.2 56.5 84.7#



#50

Toluene-d8

Concen: 3.795 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053449.D

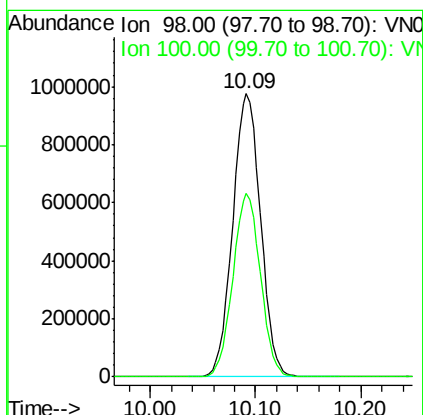
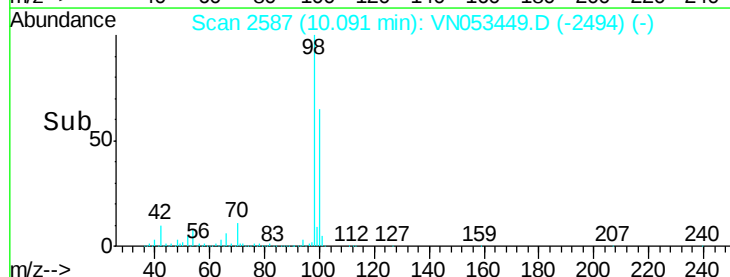
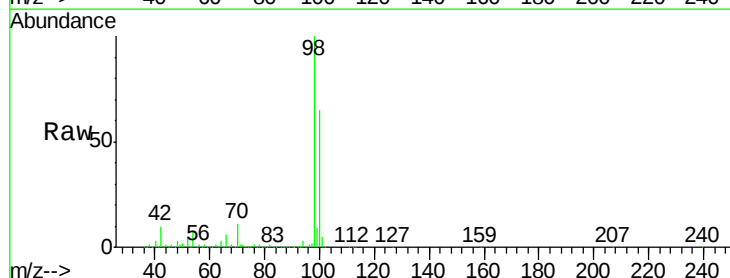
Acq: 17 Jan 2019 21:47

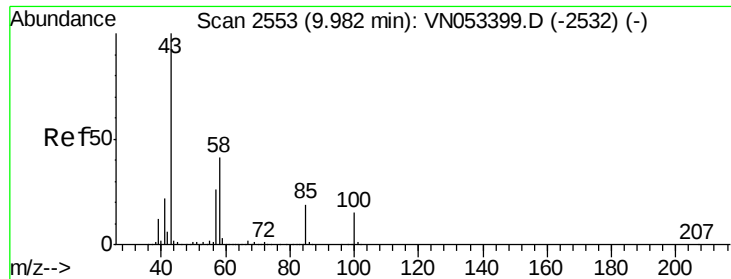
Tgt Ion: 98 Resp: 1782036

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 2.142 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN053449.D

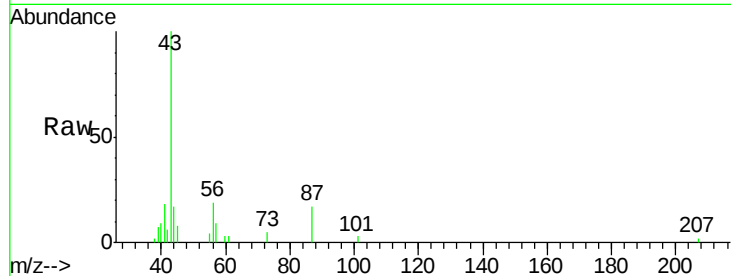
Acq: 17 Jan 2019 21:47

Tot Ion: 43 Resp: 15639

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

10000

8000

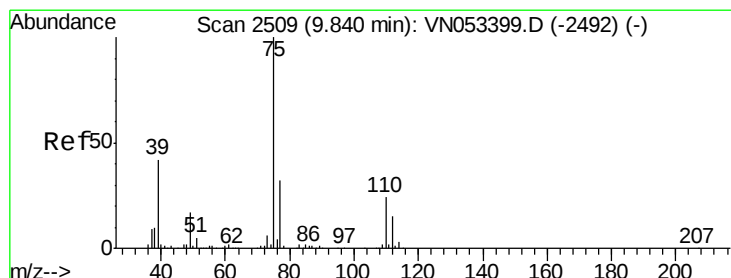
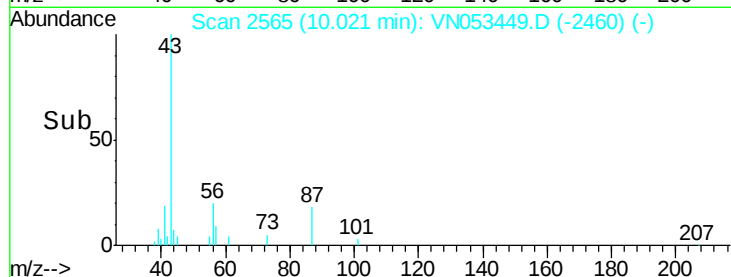
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.814 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

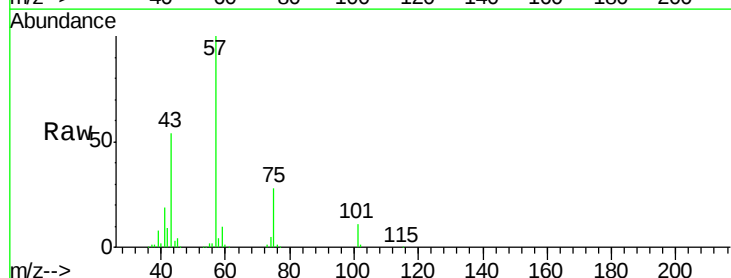
Tgt Ion: 75 Resp: 101805

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 28.2 33.4 50.0#



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

80000

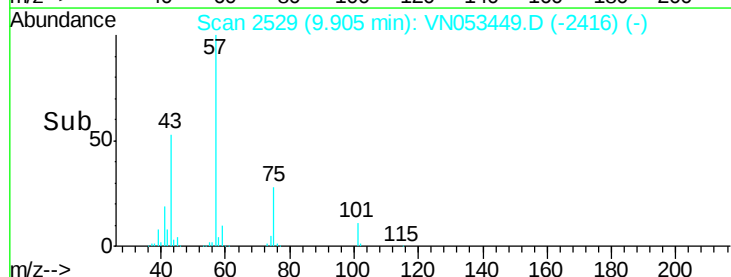
60000

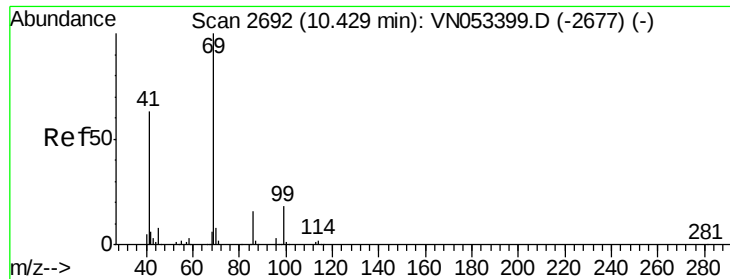
40000

20000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.209 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.11 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

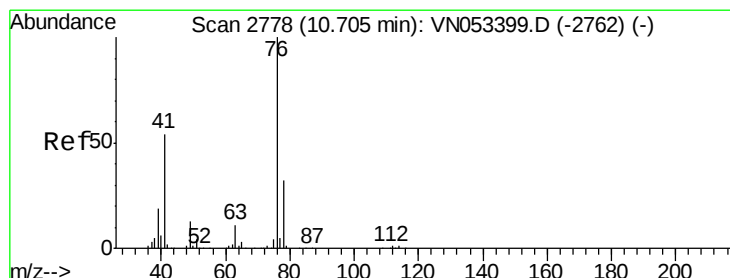
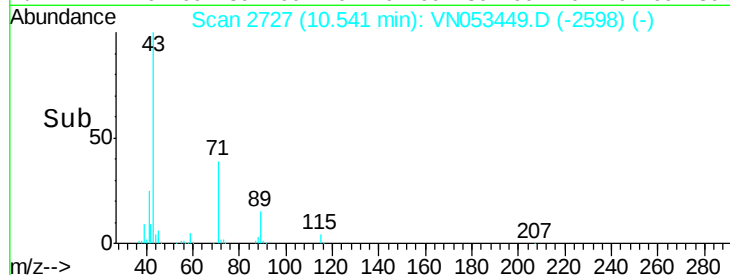
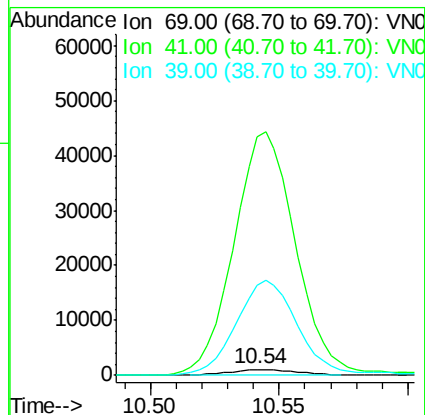
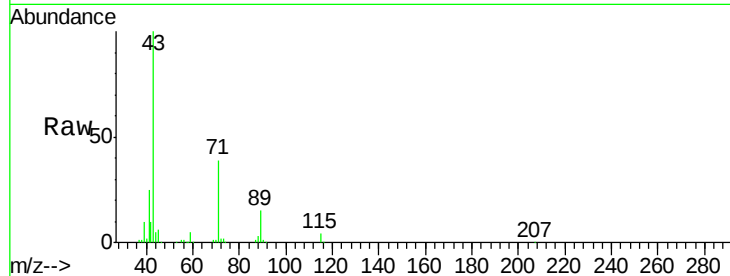
Tot Ion: 69 Resp: 1887

Ion Ratio Lower Upper

69 100

41 3947.3 49.4 74.0#

39 1529.9 23.3 34.9#



#57

1,3-Dichloropropane

Concen: 1.481 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053449.D

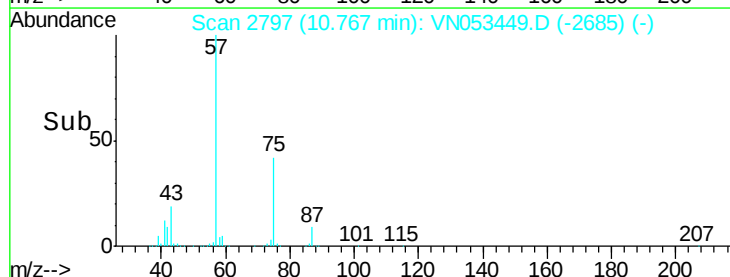
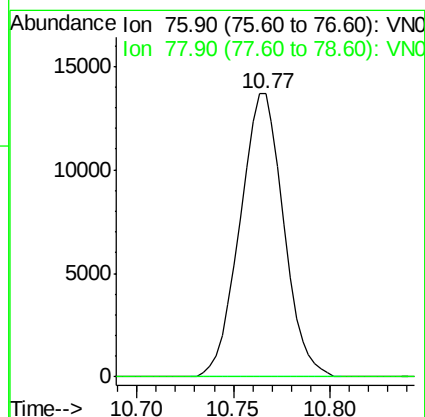
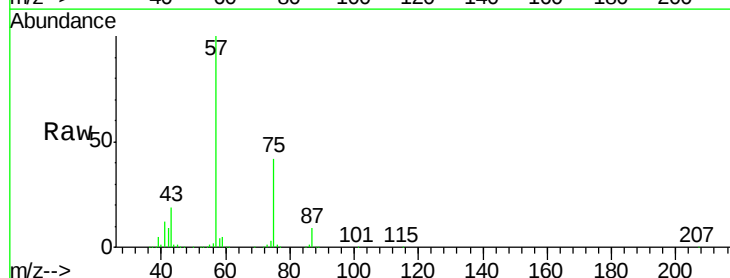
Acq: 17 Jan 2019 21:47

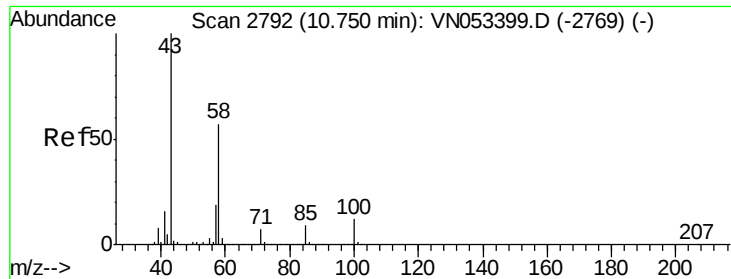
Tgt Ion: 76 Resp: 21549

Ion Ratio Lower Upper

76 100

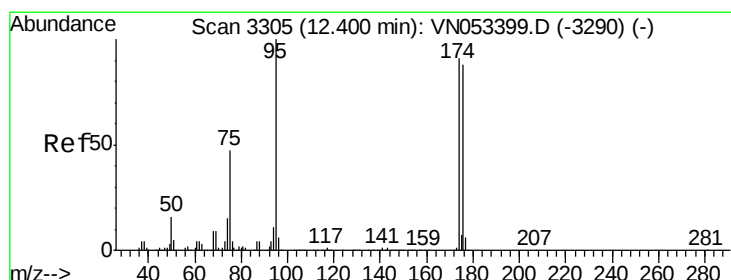
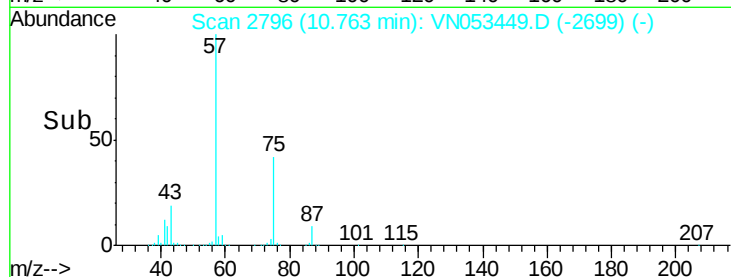
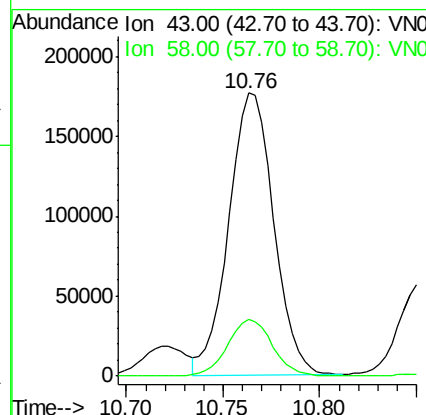
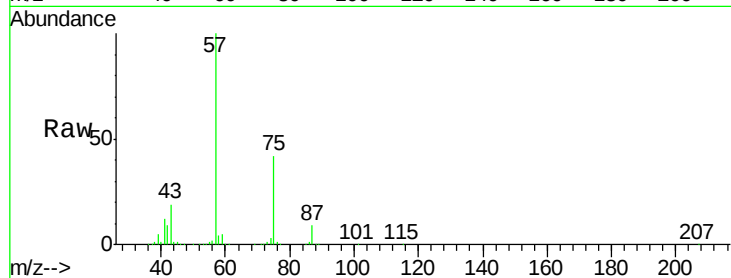
78 0.0 25.6 38.4#





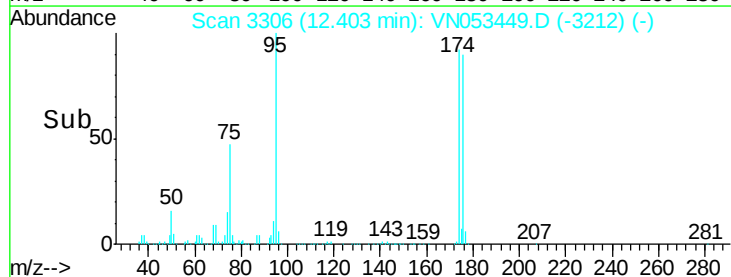
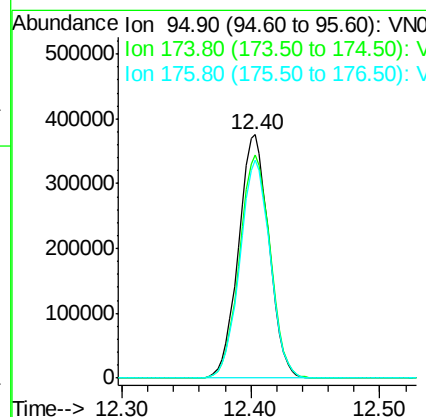
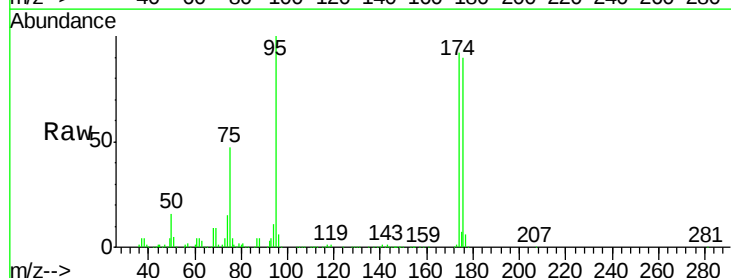
#59
2-Hexanone
Concen: 55.663 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

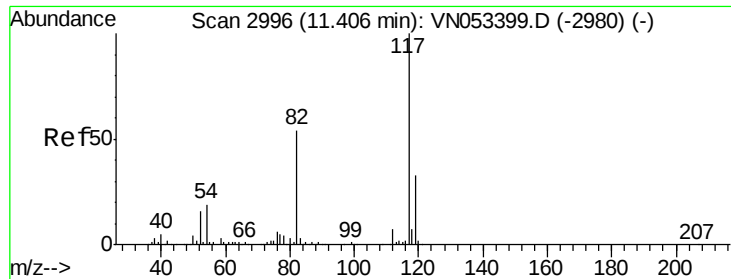
Tot Ion: 43 Resp: 285334
Ion Ratio Lower Upper
43 100
58 20.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tgt Ion: 95 Resp: 614097
Ion Ratio Lower Upper
95 100
174 92.8 0.0 183.2
176 89.4 0.0 177.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

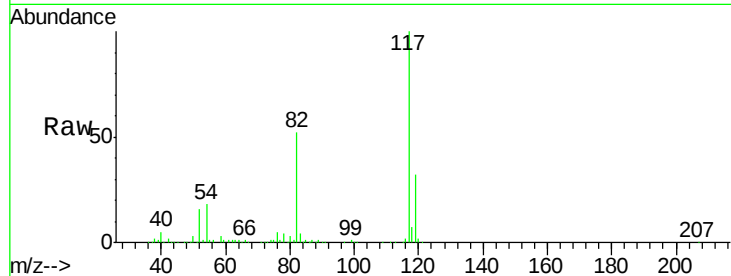
Delta R.T. 0.00 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

Tot Ion:117 Resp: 1358282

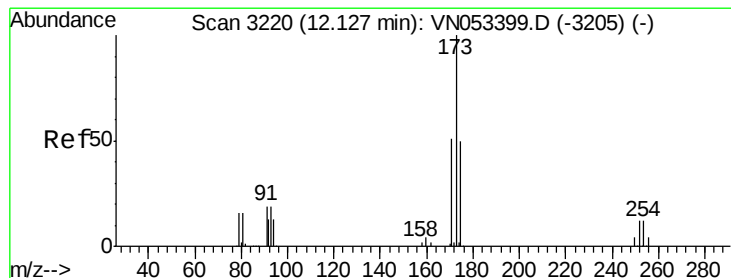
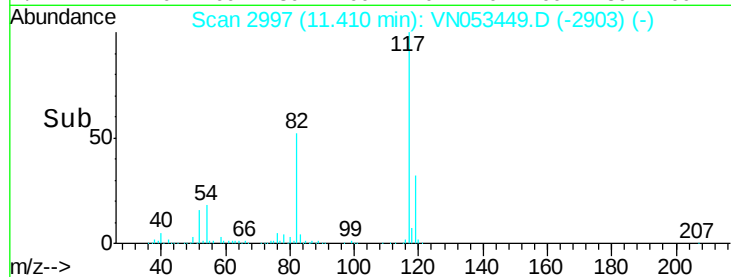
Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.9	64.3
119	32.4	26.0	39.0



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: 0.618 ug/l

RT: 12.40 min Scan# 3306

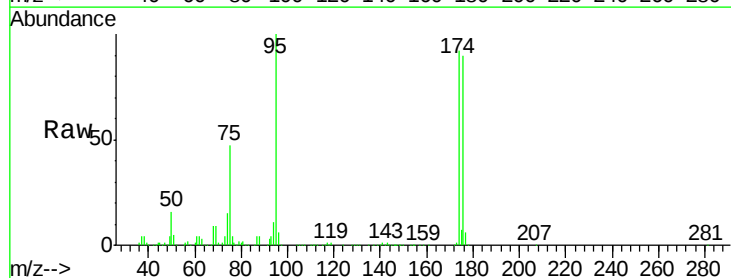
Delta R.T. 0.28 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

Tgt Ion:173 Resp: 4255

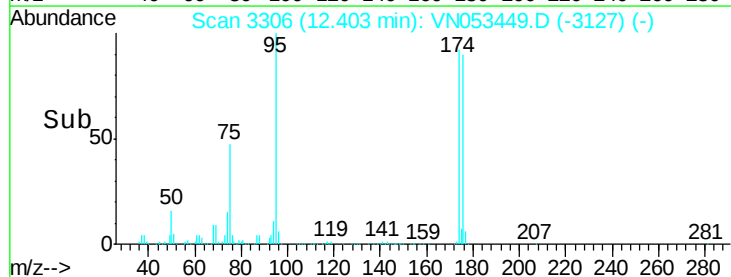
Ion	Ratio	Lower	Upper
173	100		
175	832.0	24.6	74.0#
254	0.0	0.2	0.2#

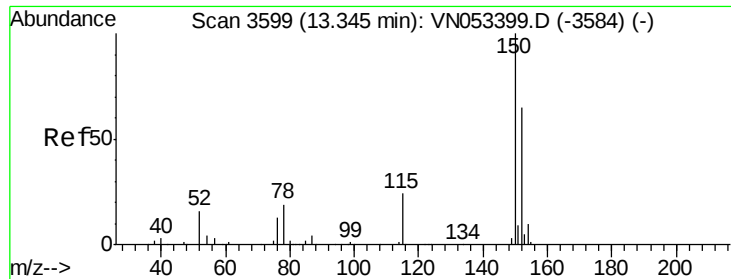


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

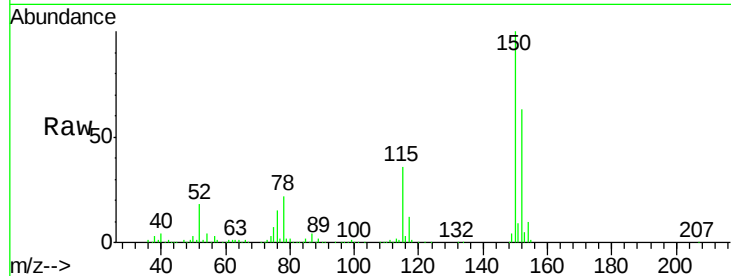




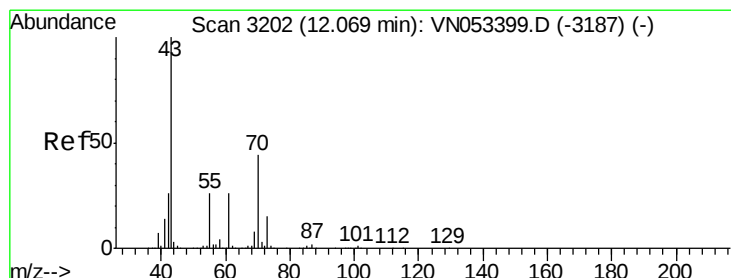
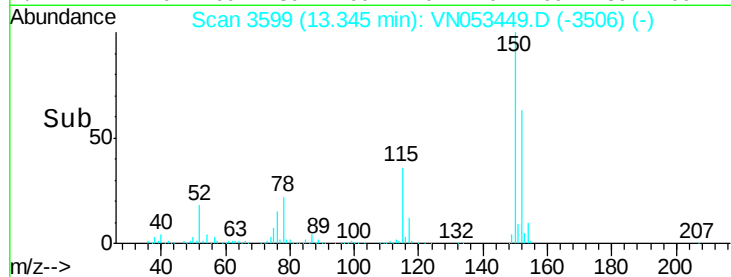
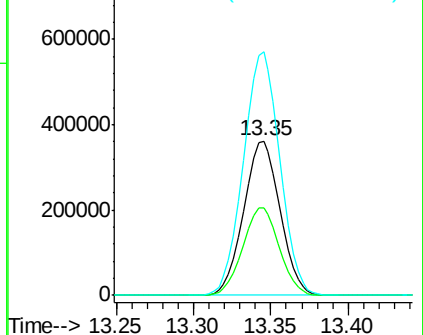
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.9	27.8	83.4
150	158.2	0.0	349.0



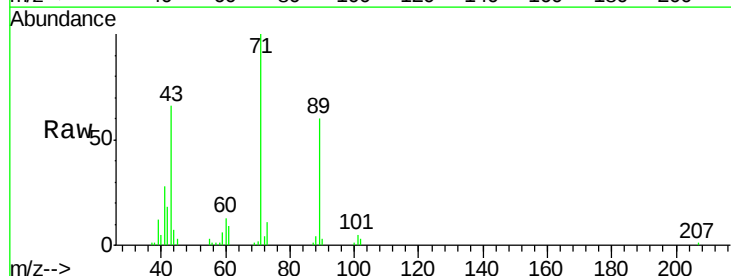
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



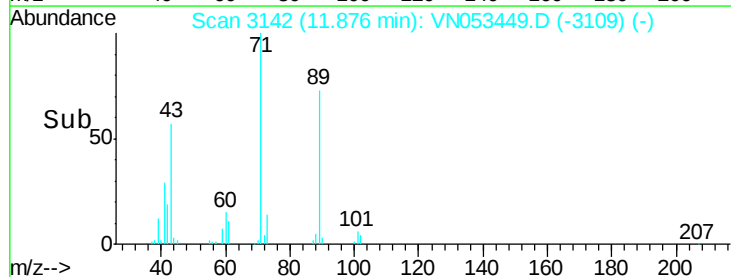
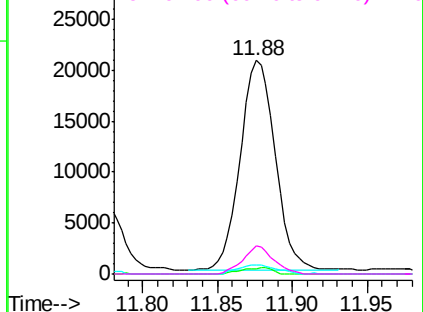
#74

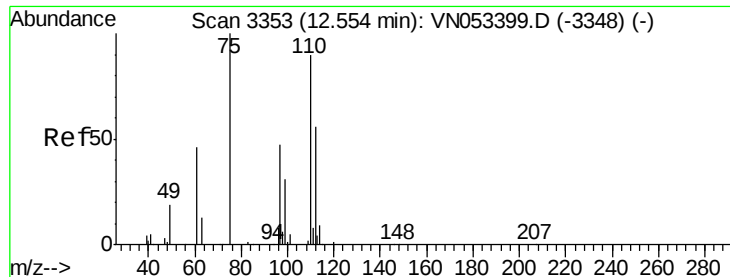
N-ethyl acetate
Concen: 2.889 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.6	35.4	53.2#
55	4.8	20.9	31.3#
61	11.5	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

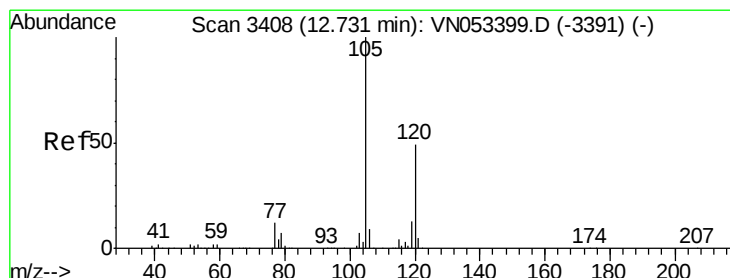
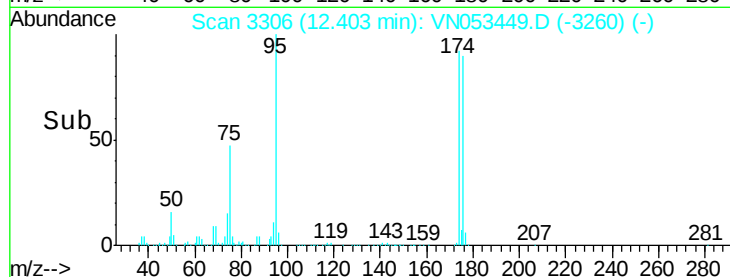
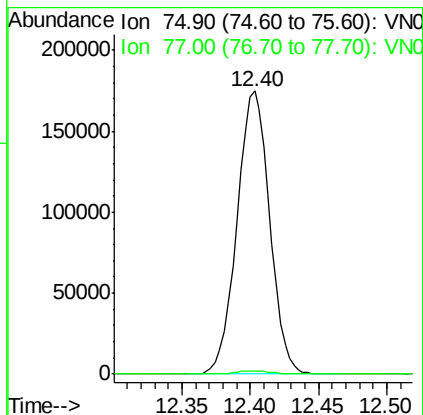
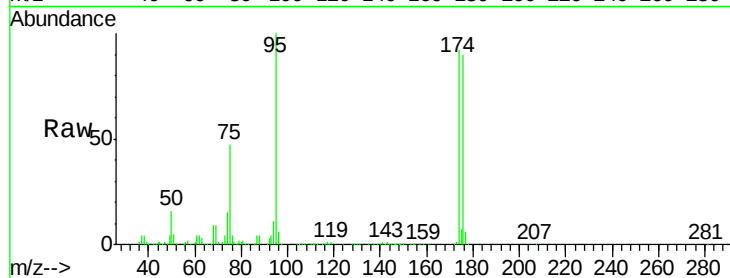




#76

1,2,3-Trichloropropane
Concen: 37.030 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

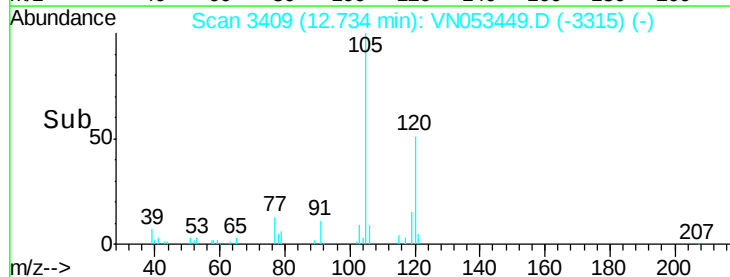
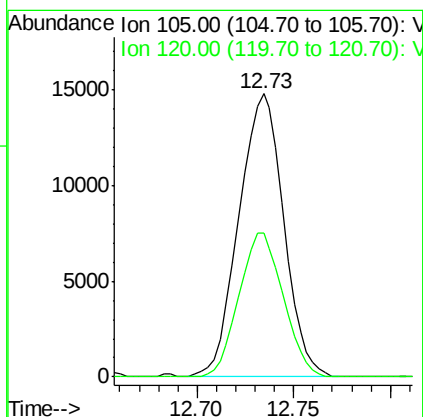
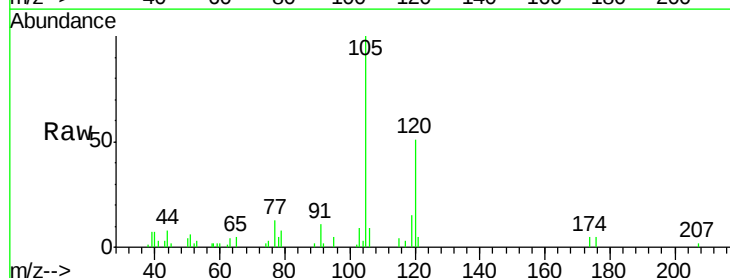
Tot Ion: 75 Resp: 289623
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

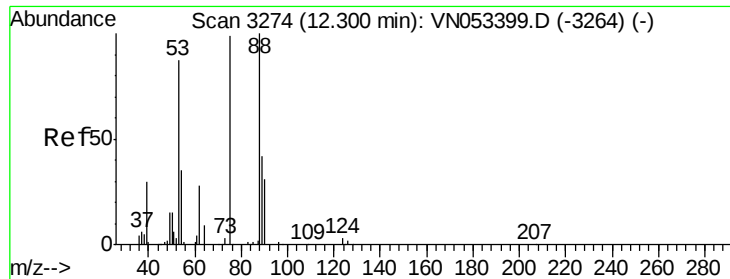


#80

1,3,5-Trimethylbenzene
Concen: 0.677 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053449.D
Acq: 17 Jan 2019 21:47

Tgt Ion: 105 Resp: 23923
Ion Ratio Lower Upper
105 100
120 50.0 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 91.498 ug/l

RT: 12.40 min Scan# 3306

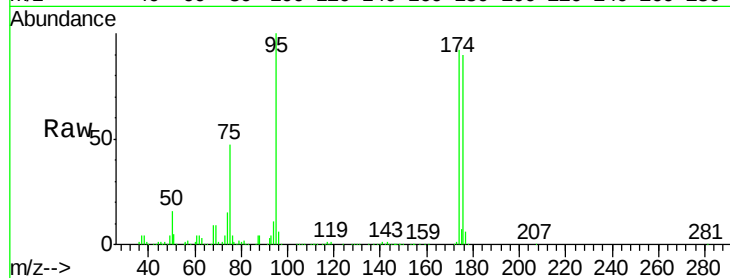
Delta R.T. 0.10 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

Tot Ion: 75 Resp: 289623

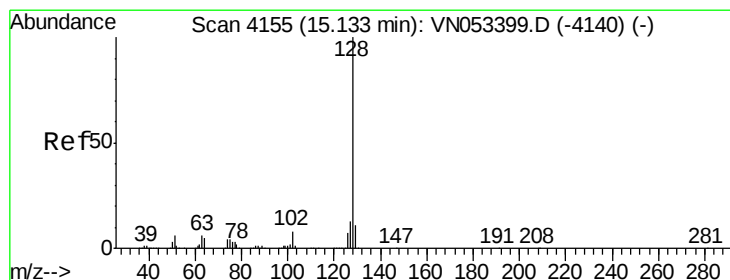
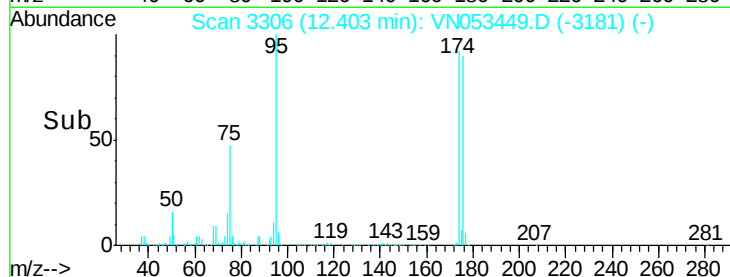
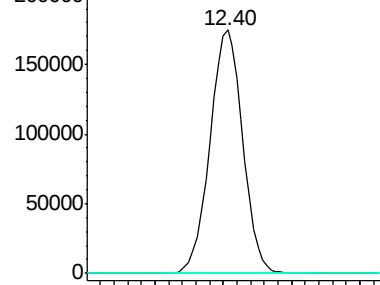
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



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: 3.948 ug/l

RT: 15.14 min Scan# 4158

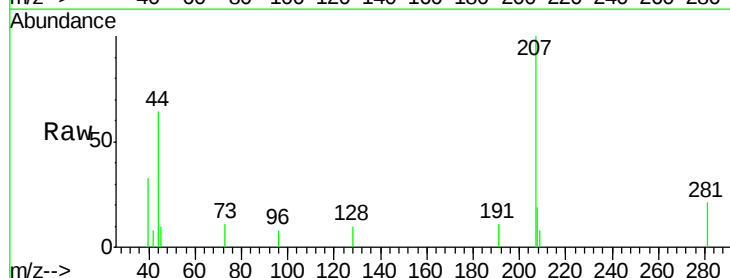
Delta R.T. 0.01 min

Lab File: VN053449.D

Acq: 17 Jan 2019 21:47

Tgt Ion: 128 Resp: 143

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) (-)

