

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053447.D
 Acq On : 17 Jan 2019 20:53
 Operator : JC/SP
 Sample : PB116439ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

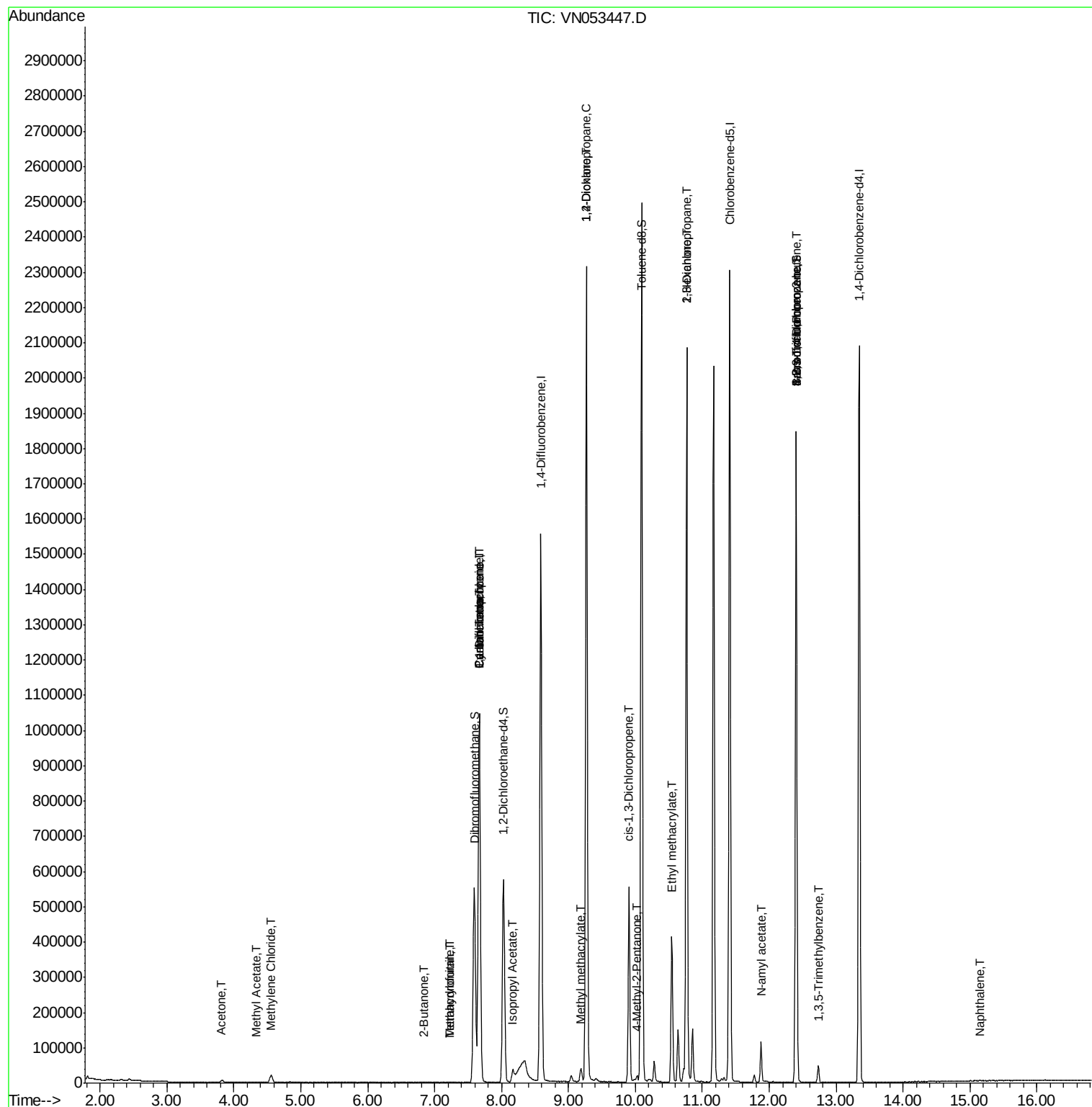
Quant Time: Jan 18 00:13:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

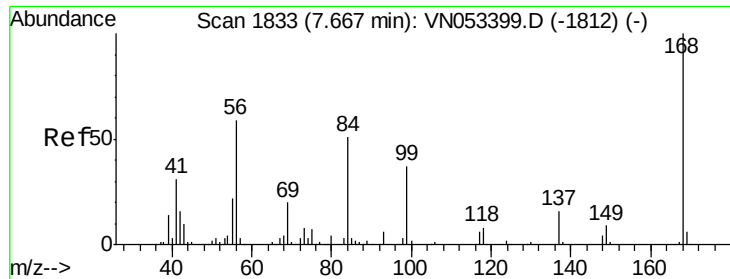
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	931806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1465128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1393868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	617049	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	479198	52.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.06%	
35) Dibromofluoromethane	7.59	113	424674	50.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.58%	
50) Toluene-d8	10.09	98	1818697	51.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.40	95	631346	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	12999	6.016	ug/l	93
18) Methyl Acetate	4.33	43	3019	0.415	ug/l #	69
20) Methylene Chloride	4.56	84	16252	1.647	ug/l	95
25) 2-Butanone	6.85	43	3106	0.933	ug/l	97
29) Tetrahydrofuran	7.21	42	905	0.417	ug/l #	65
31) Cyclohexane	7.66	56	13973	0.642	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	60177	4.510	ug/l #	49
38) Carbon Tetrachloride	7.67	117	80499	6.372	ug/l #	16
41) Methacrylonitrile	7.21	41	619	0.801	ug/l #	28
43) Isopropyl Acetate	8.17	43	49276	3.570	ug/l #	79
45) 1,2-Dichloropropane	9.27	63	2727	0.254	ug/l #	43
48) Methyl methacrylate	9.18	41	13709	1.923	ug/l #	12
49) 1,4-Dioxane	9.27	88	489	7.025	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	15537	2.062	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	104699	6.791	ug/l #	62
56) Ethyl methacrylate	10.54	69	1489	2.174	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	22253	1.482	ug/l #	43
59) 2-Hexanone	10.76	43	289933	54.811	ug/l #	50
71) Bromoform	12.40	173	4329	0.613	ug/l #	1
74) N-amyl acetate	11.88	43	33992	2.822	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	294123	36.171	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23437	0.637	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	294123	89.434	ug/l #	15
95) Naphthalene	15.14	128	200	3.951	ug/l #	69

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
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# 1834

Delta R.T. 0.00 min

Lab File: VN053447.D

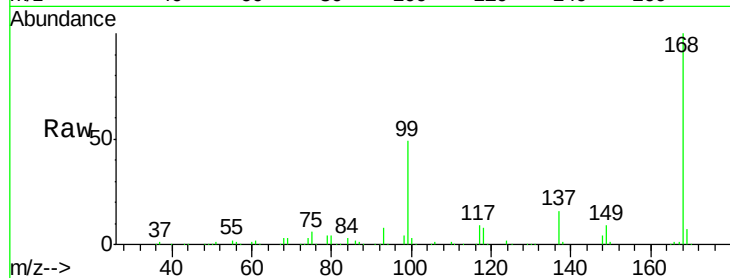
Acq: 17 Jan 2019 20:53

Tot Ion:168 Resp: 931806

Ion Ratio Lower Upper

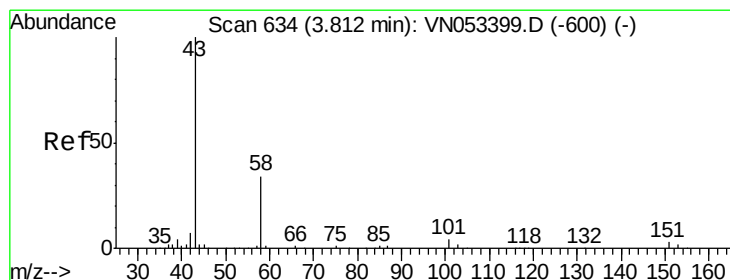
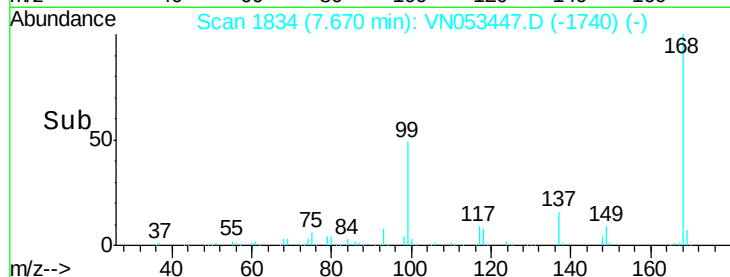
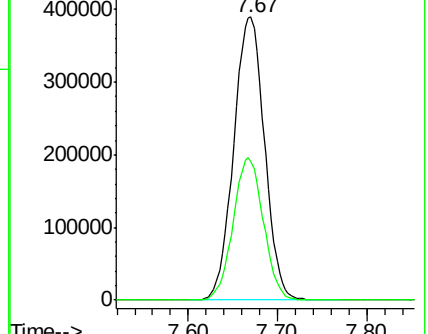
168 100

99 49.2 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: 6.016 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053447.D

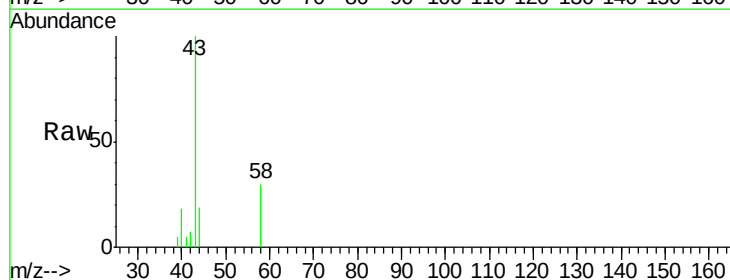
Acq: 17 Jan 2019 20:53

Tgt Ion: 43 Resp: 12999

Ion Ratio Lower Upper

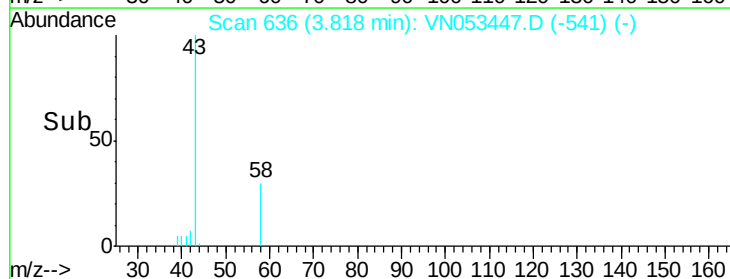
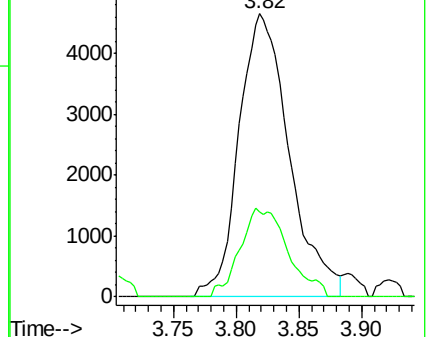
43 100

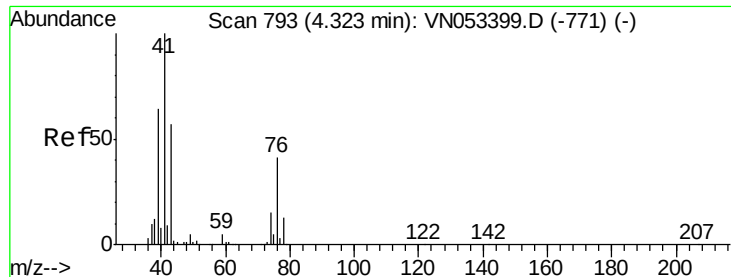
58 29.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

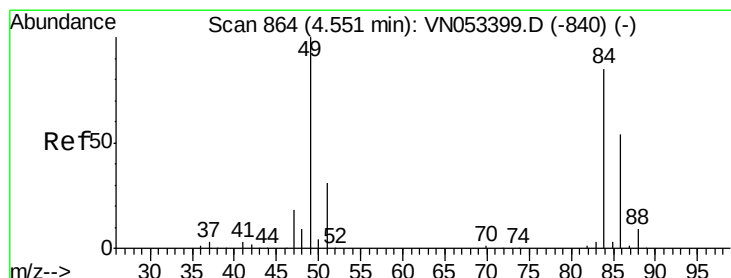
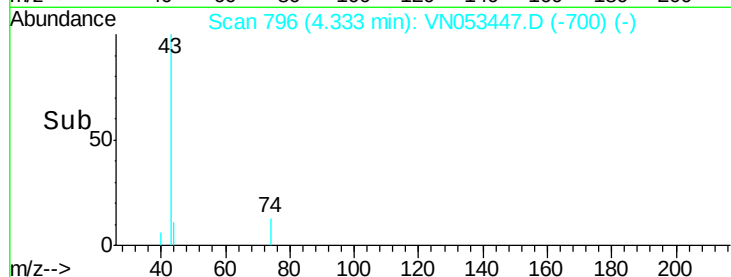
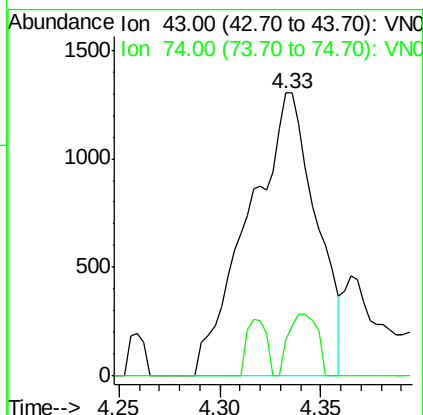
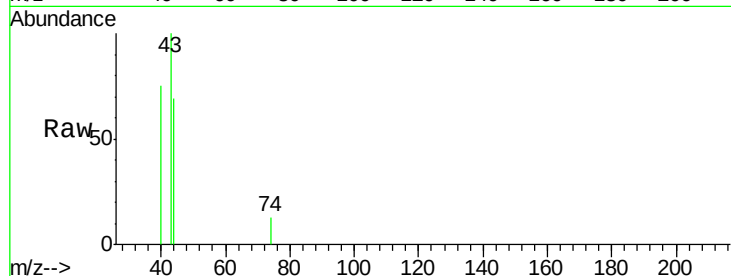
Ion 58.00 (57.70 to 58.70): VNO





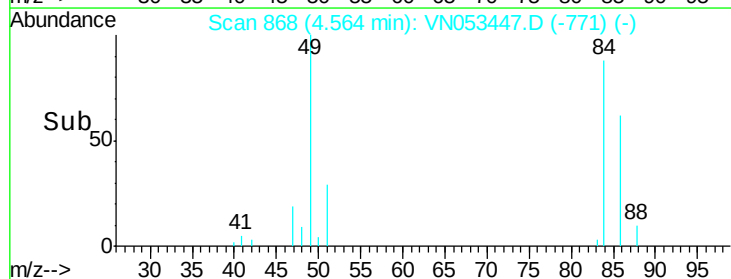
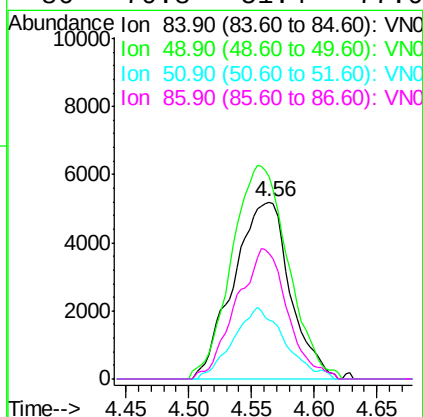
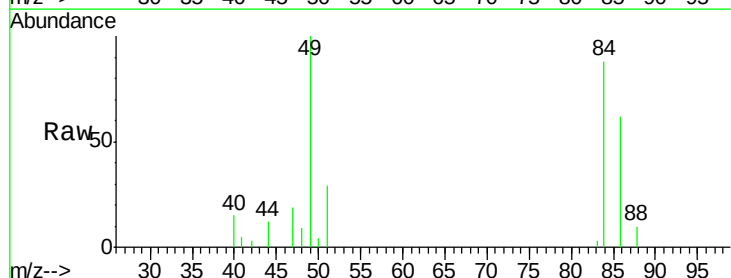
#18
Methvl Acetate
Concen: 0.415 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

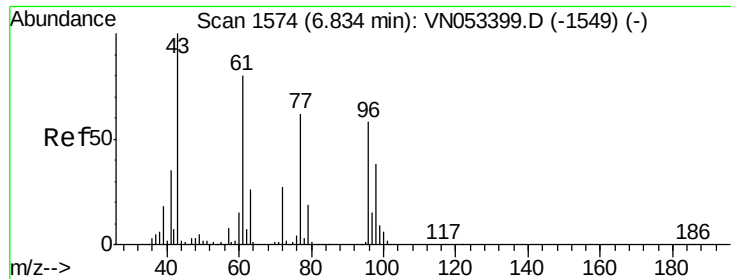
Tot Ion: 43 Resp: 3019
Ion Ratio Lower Upper
43 100
74 9.1 19.4 29.2#



#20
Methylene Chloride
Concen: 1.647 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion: 84 Resp: 16252
Ion Ratio Lower Upper
84 100
49 114.1 94.3 141.5
51 33.4 29.4 44.2
86 70.8 51.4 77.0





#25

2-Butanone

Concen: 0.933 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053447.D

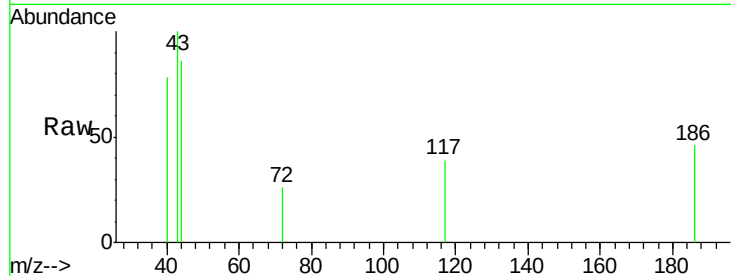
Acq: 17 Jan 2019 20:53

Tot Ion: 43 Resp: 3106

Ion Ratio Lower Upper

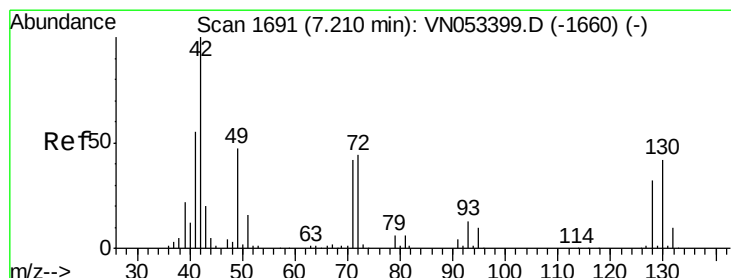
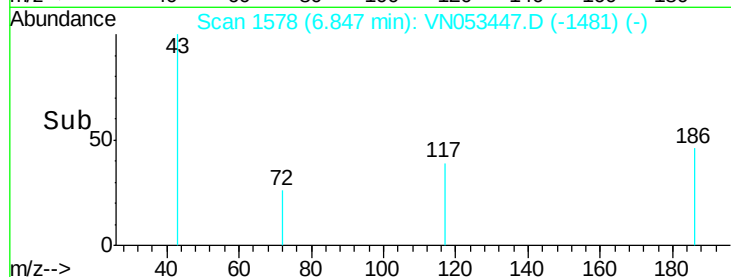
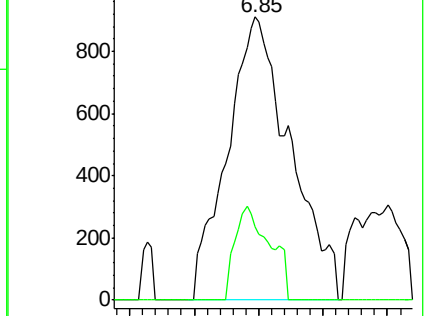
43 100

72 26.0 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

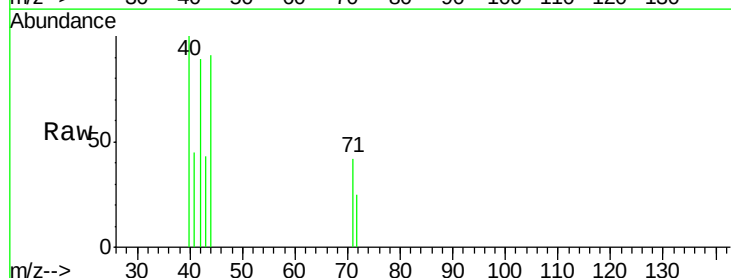
Tgt Ion: 42 Resp: 905

Ion Ratio Lower Upper

42 100

72 7.1 35.2 52.8#

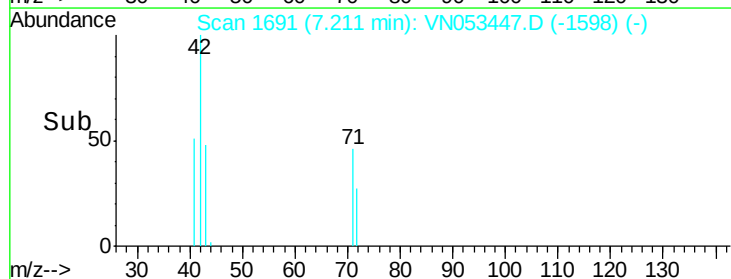
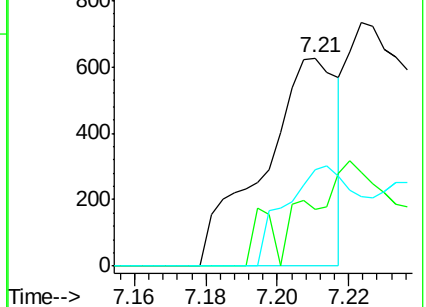
71 48.8 33.0 49.4

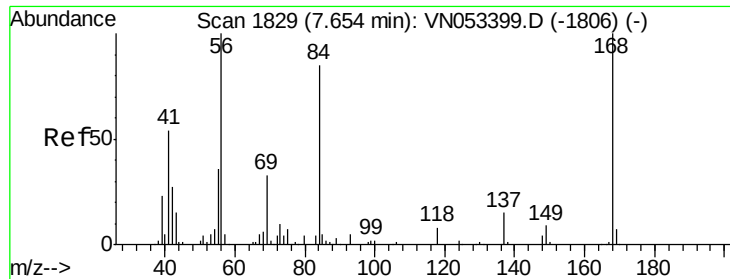


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.642 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

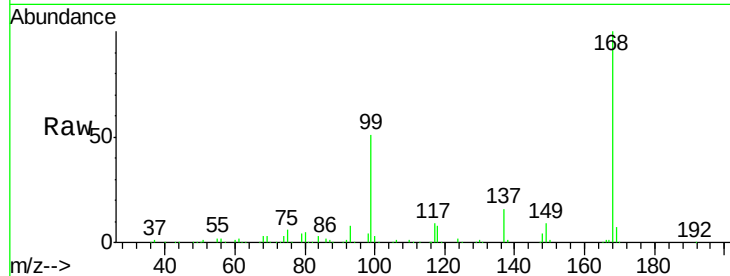
Tot Ion: 56 Resp: 13973

Ion Ratio Lower Upper

56 100

69 193.8 26.4 39.6#

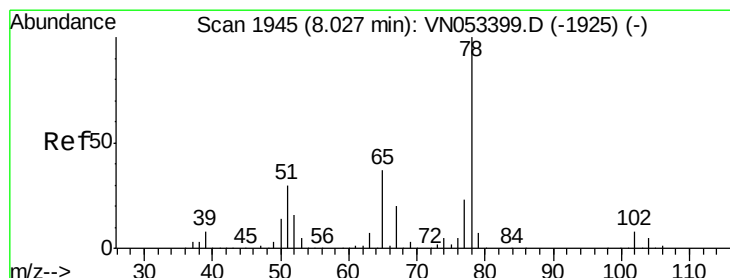
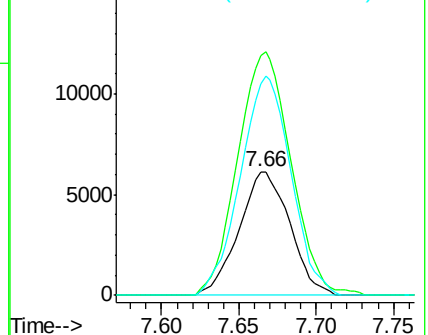
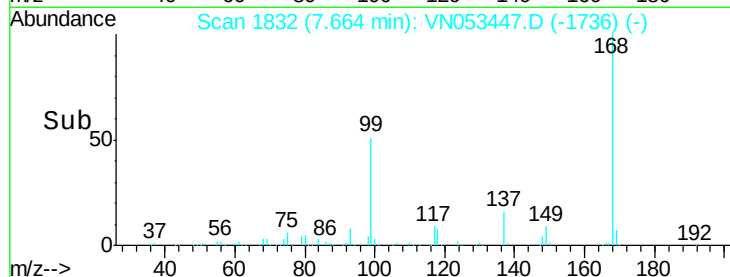
84 171.3 67.9 101.9#



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: VN053447.D

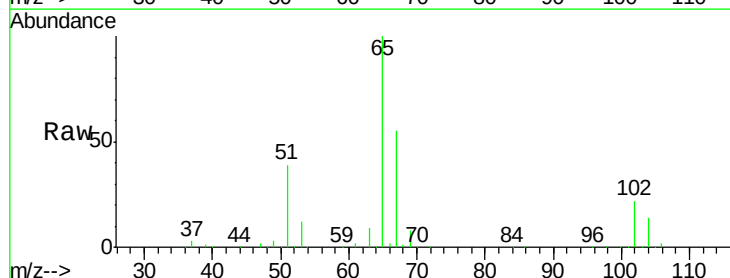
Acq: 17 Jan 2019 20:53

Tgt Ion: 65 Resp: 479198

Ion Ratio Lower Upper

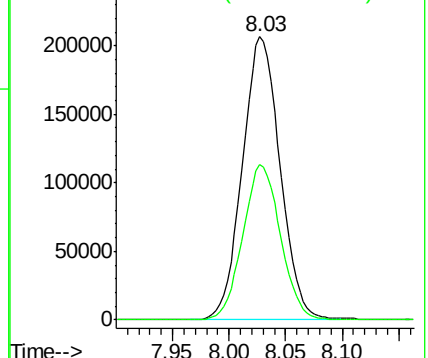
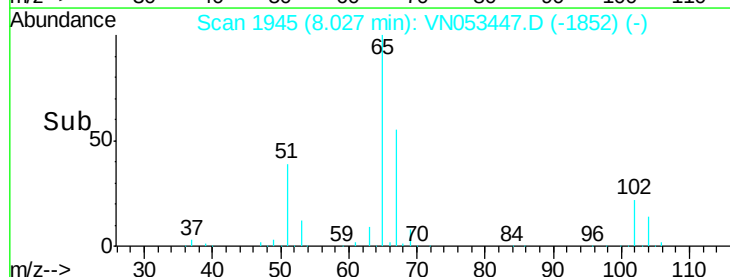
65 100

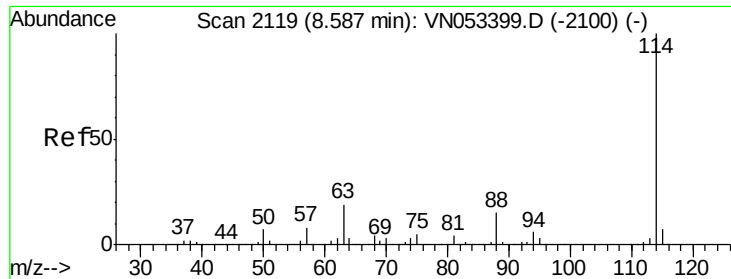
67 54.9 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

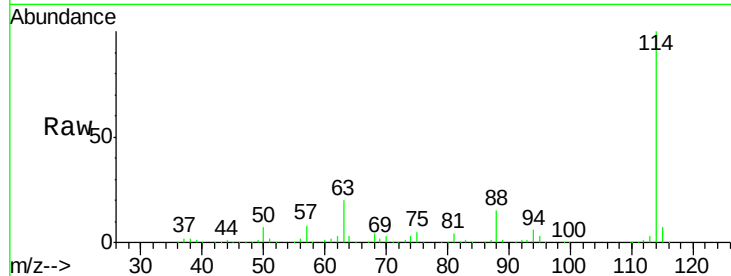




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tot Ion:114 Resp: 1465128

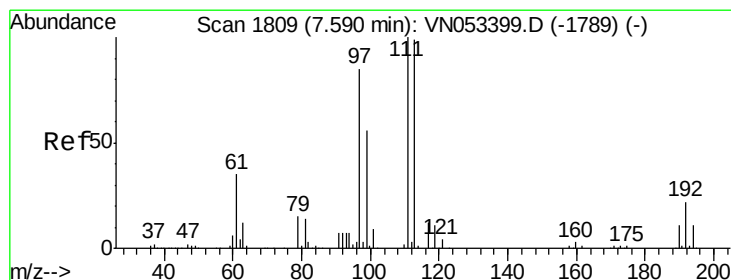
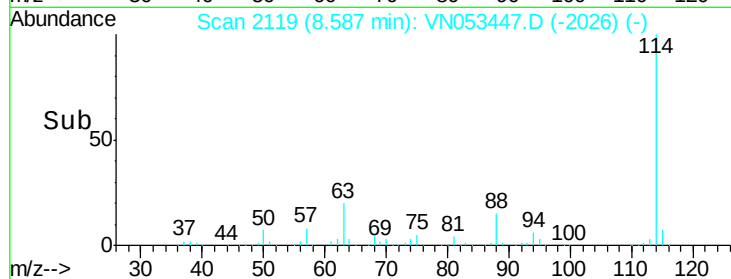
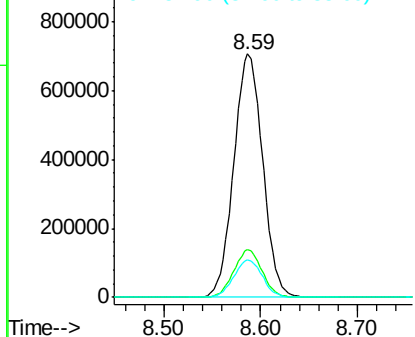
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.6
88	15.4	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

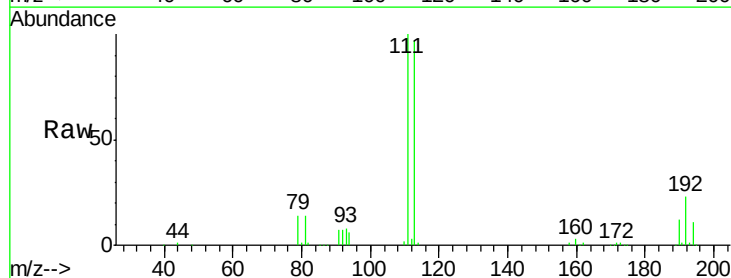
Ion 87.90 (87.60 to 88.60): VN



#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion:113 Resp: 424674

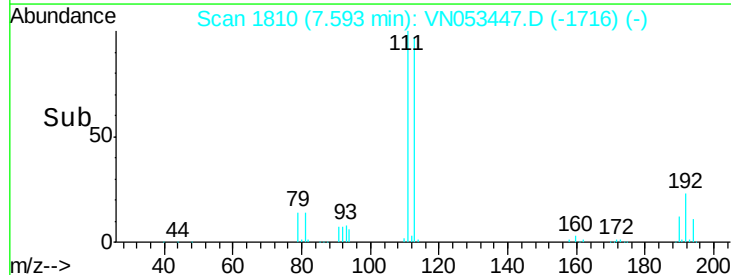
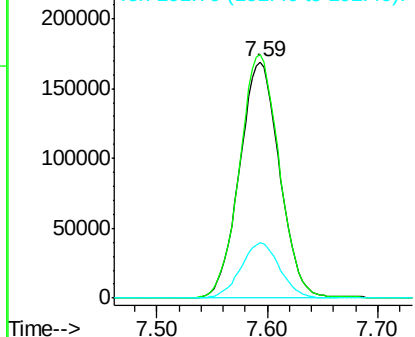
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	22.9	18.2	27.2

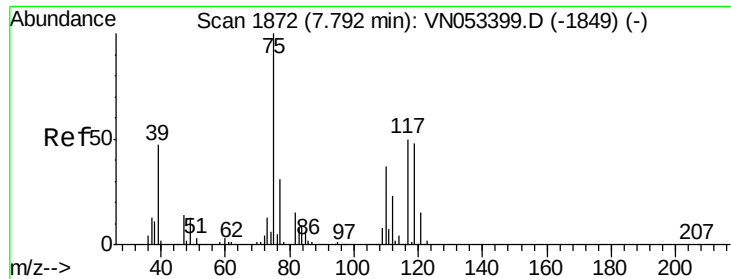


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.510 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

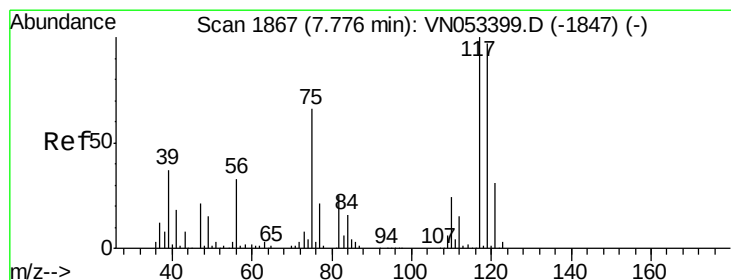
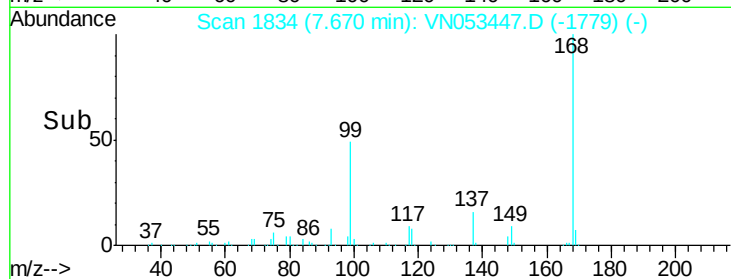
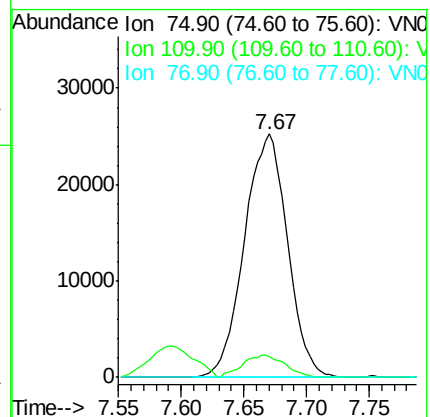
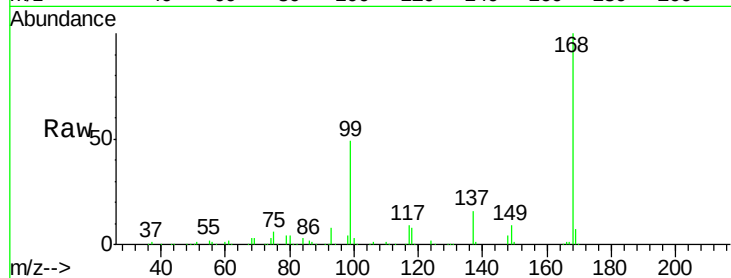
Tot Ion: 75 Resp: 60177

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.372 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

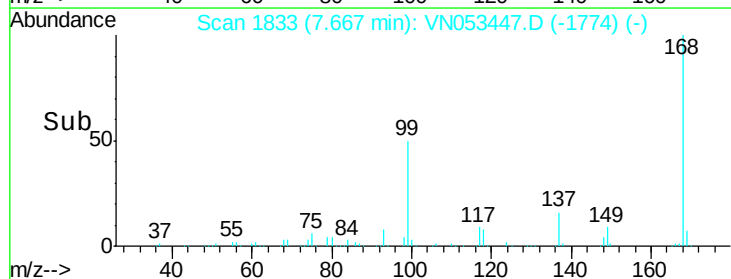
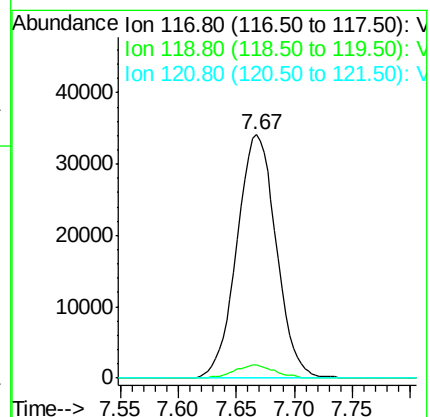
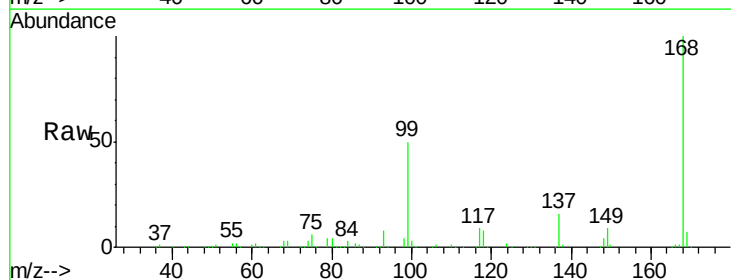
Tgt Ion: 117 Resp: 80499

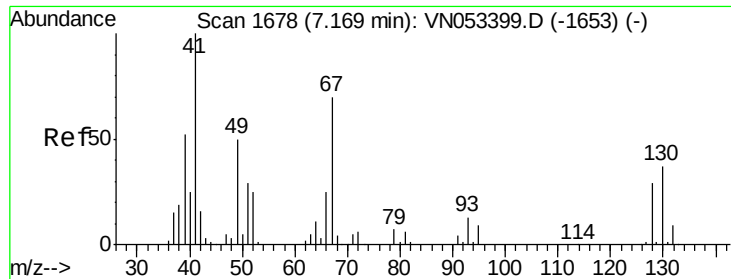
Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

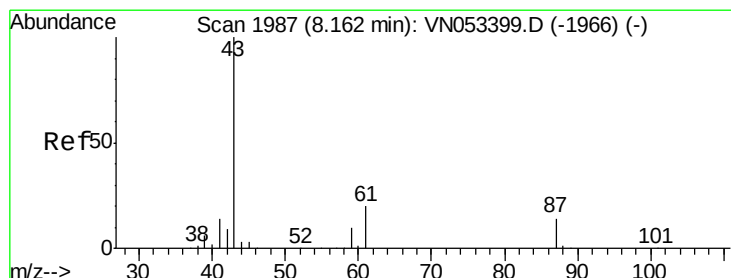
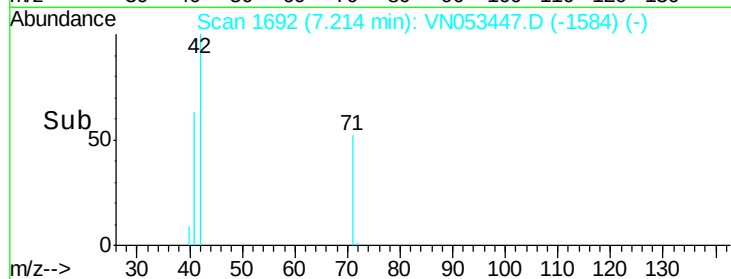
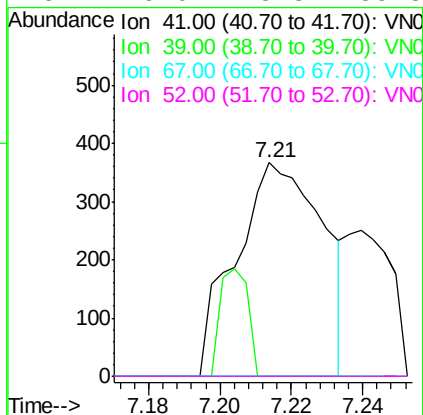
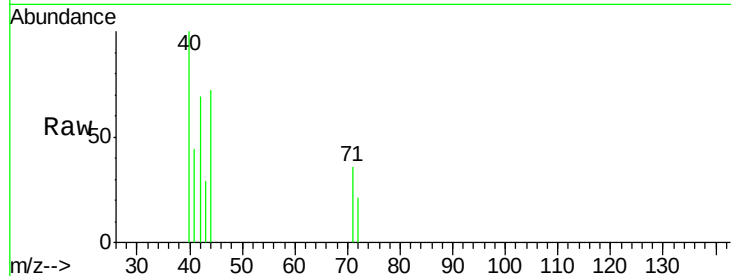
121 0.0 24.6 37.0#





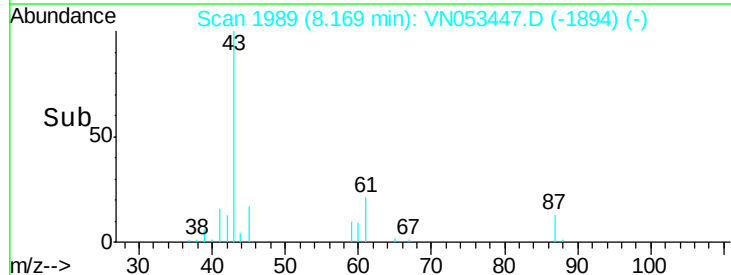
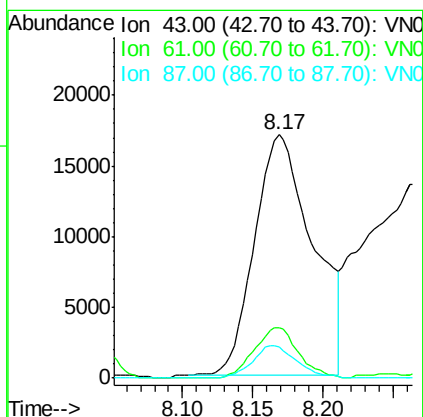
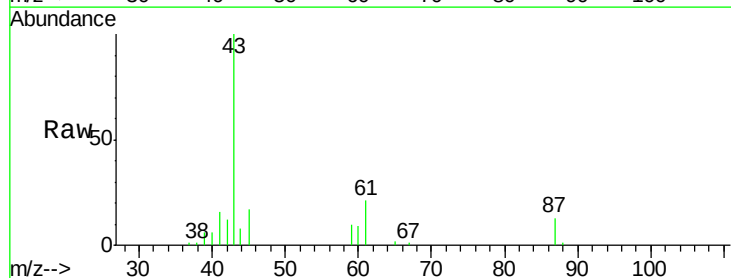
#41
Methacrylonitrile
Concen: 0.801 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.05 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

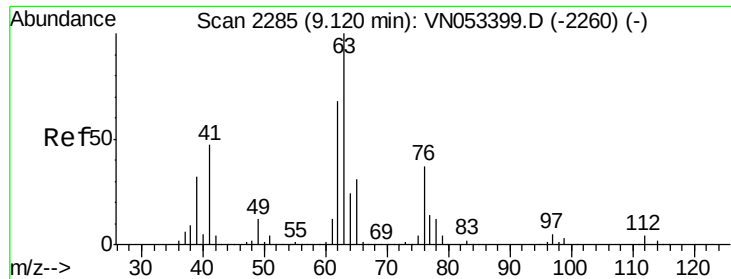
Tot Ion:	41	Resp:	619
Ion	Ratio	Lower	Upper
41	100		
39	16.0	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.570 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion:	43	Resp:	49276
Ion	Ratio	Lower	Upper
43	100		
61	15.8	23.9	35.9#
87	10.2	11.0	16.6#





#45

1,2-Dichloropropane

Concen: 0.254 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053447.D

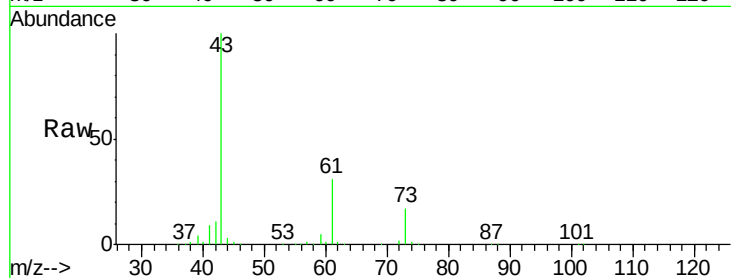
Acq: 17 Jan 2019 20:53

Tot Ion: 63 Resp: 2727

Ion Ratio Lower Upper

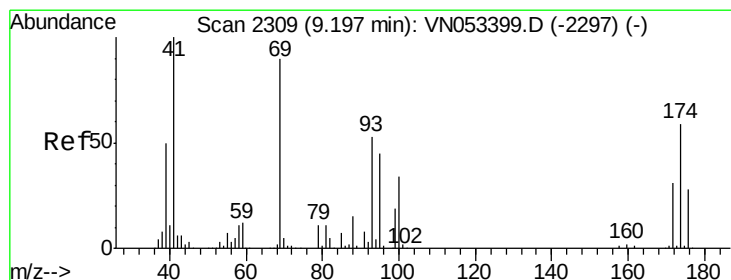
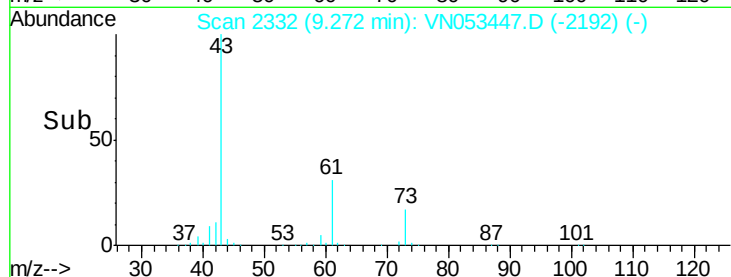
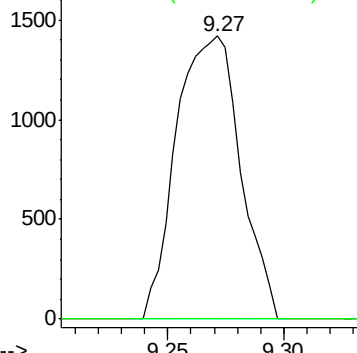
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.923 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

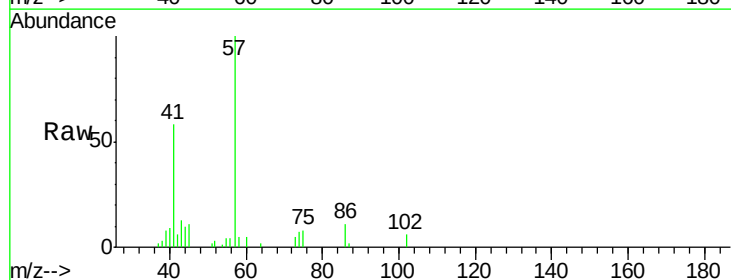
Tgt Ion: 41 Resp: 13709

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

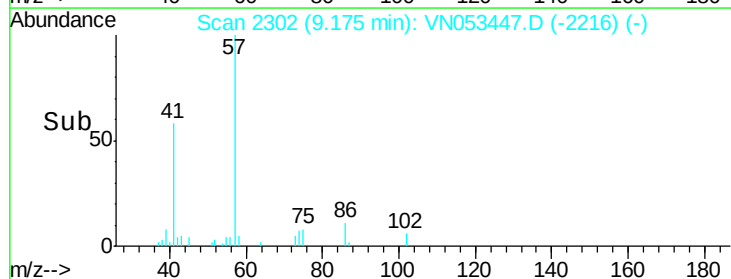
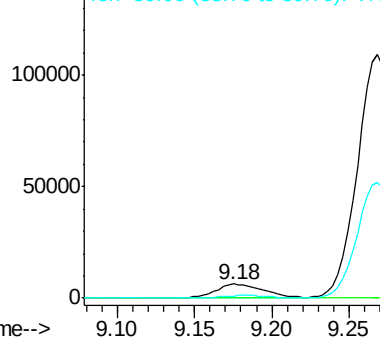
39 0.0 40.0 60.0#

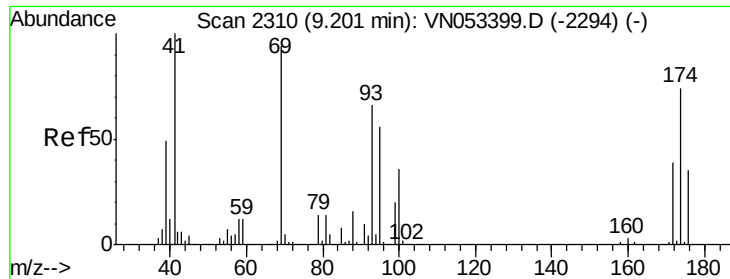


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 7.025 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

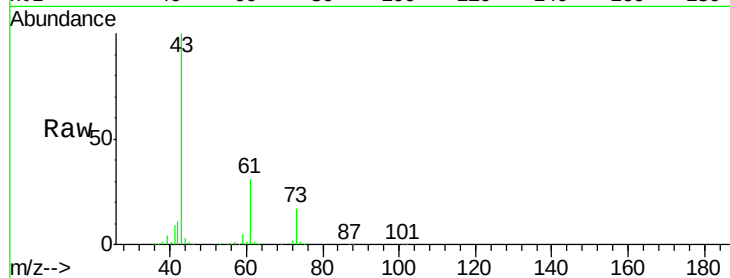
Tot Ion: 88 Resp: 489

Ion Ratio Lower Upper

88 100

43 454269.7 27.8 41.6#

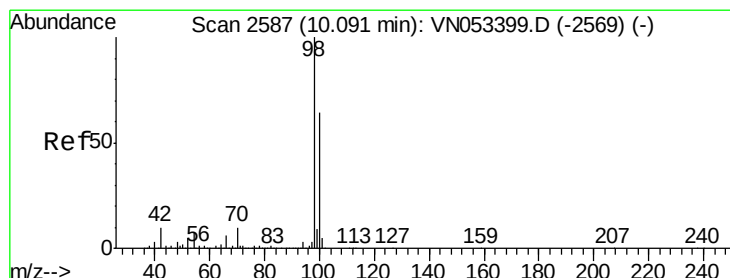
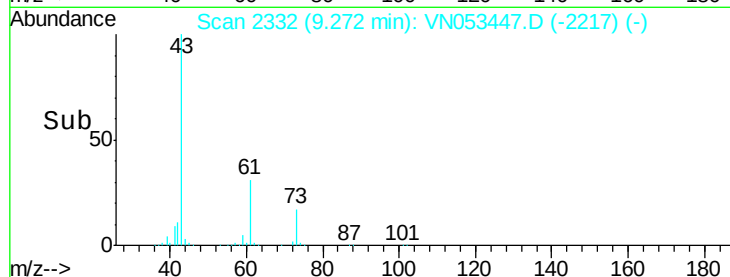
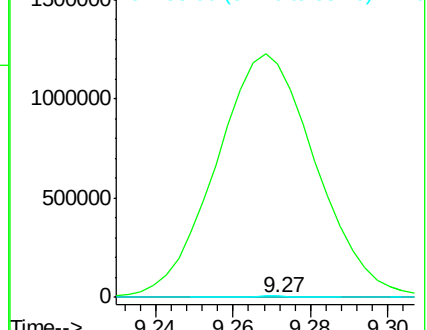
58 2222.3 56.5 84.7#



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: 7.025 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053447.D

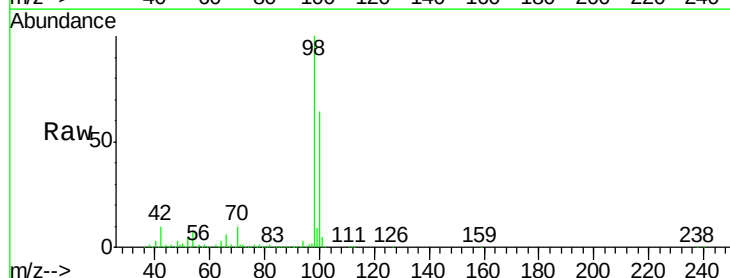
Acq: 17 Jan 2019 20:53

Tgt Ion: 98 Resp: 1818697

Ion Ratio Lower Upper

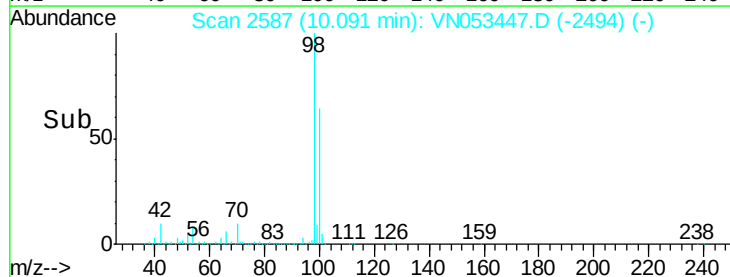
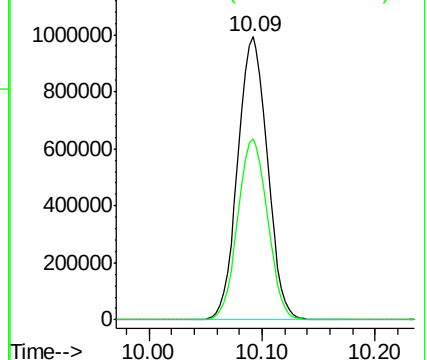
98 100

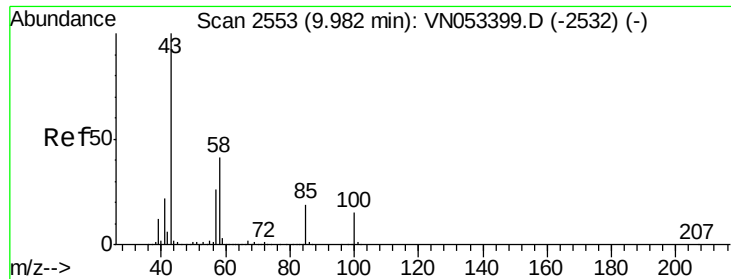
100 64.3 51.4 77.0



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: 2.062 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053447.D

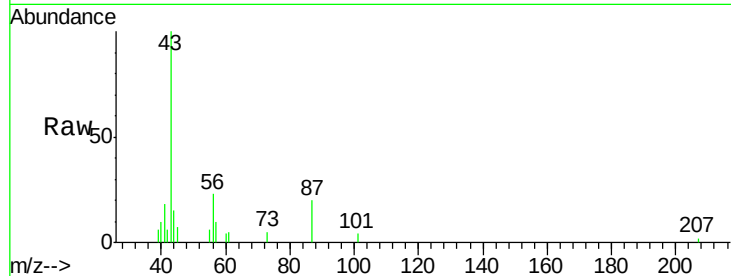
Acq: 17 Jan 2019 20:53

Tot Ion: 43 Resp: 15537

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

8000

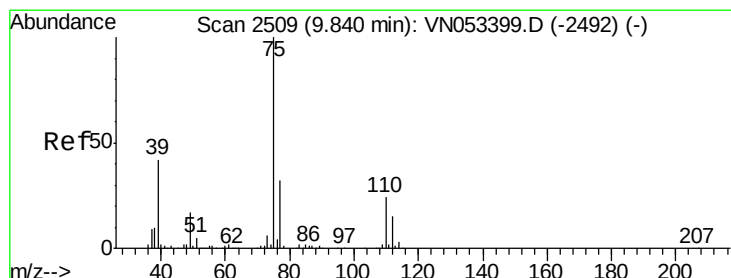
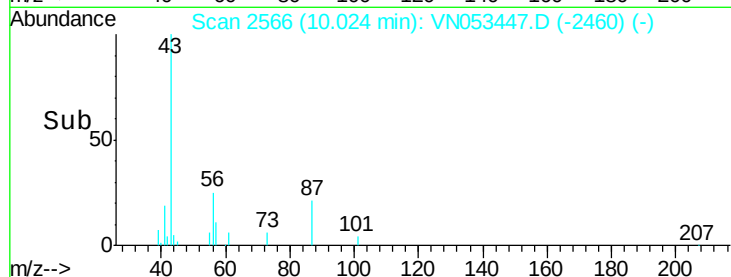
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.791 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

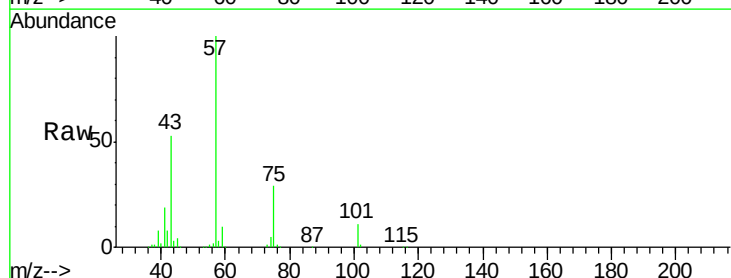
Tgt Ion: 75 Resp: 104699

Ion Ratio Lower Upper

75 100

77 0.3 25.8 38.6#

39 27.5 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

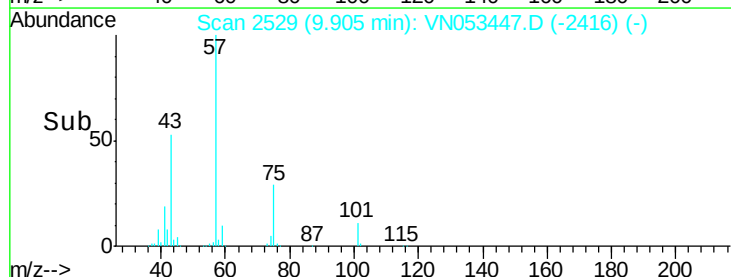
60000

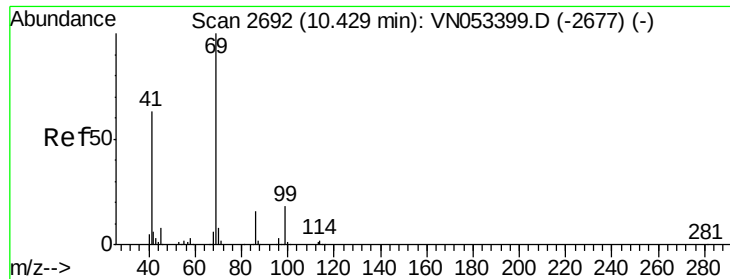
40000

20000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.174 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

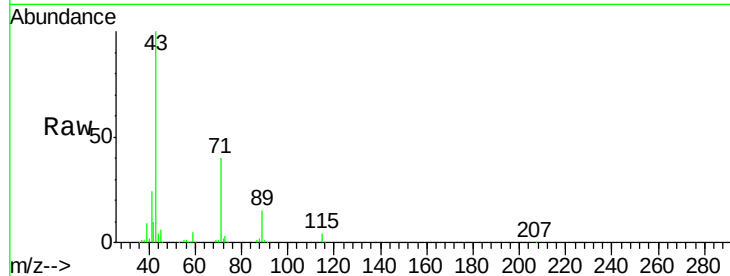
Tot Ion: 69 Resp: 1489

Ion Ratio Lower Upper

69 100

41 4755.3 49.4 74.0#

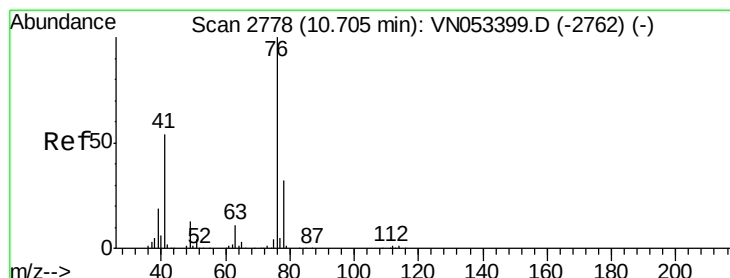
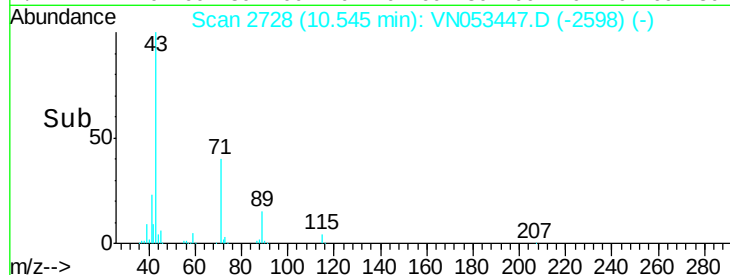
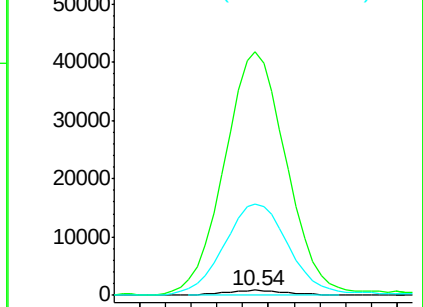
39 1871.0 23.3 34.9#



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: 1.482 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053447.D

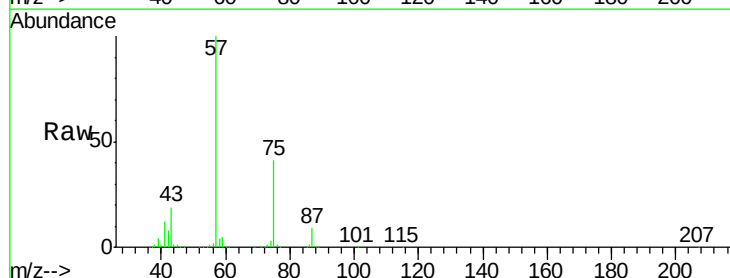
Acq: 17 Jan 2019 20:53

Tgt Ion: 76 Resp: 22253

Ion Ratio Lower Upper

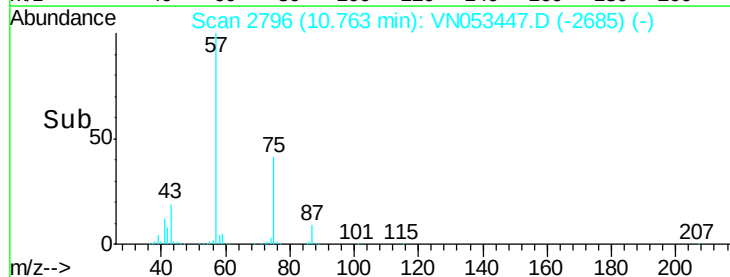
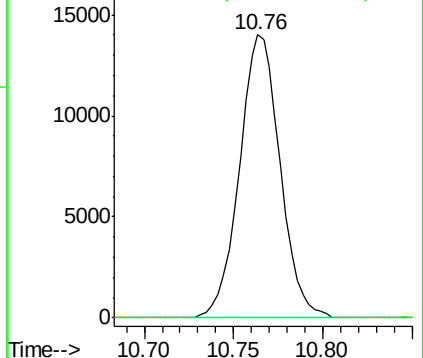
76 100

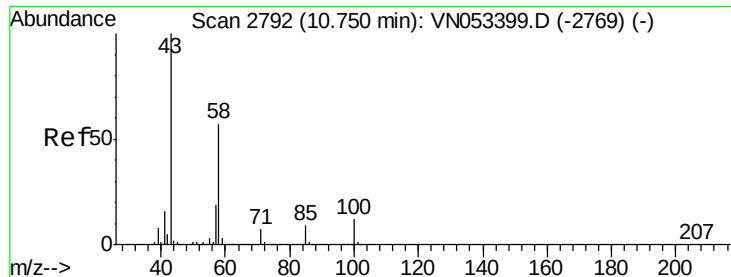
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

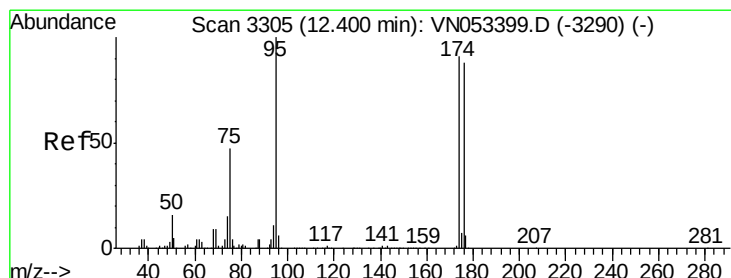
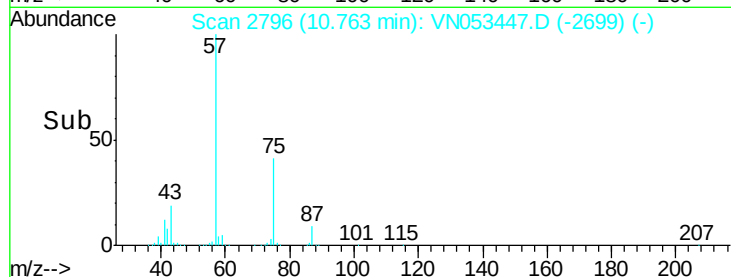
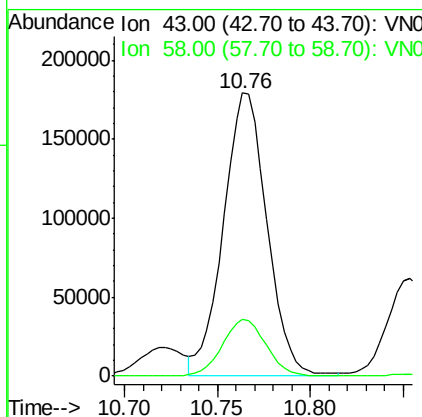
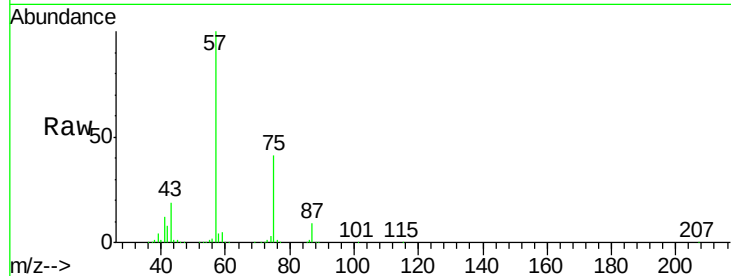
Ion 77.90 (77.60 to 78.60): VN0





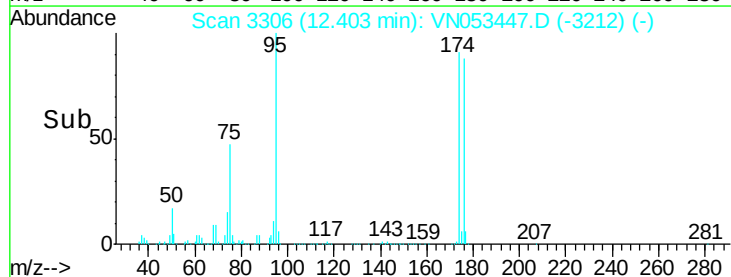
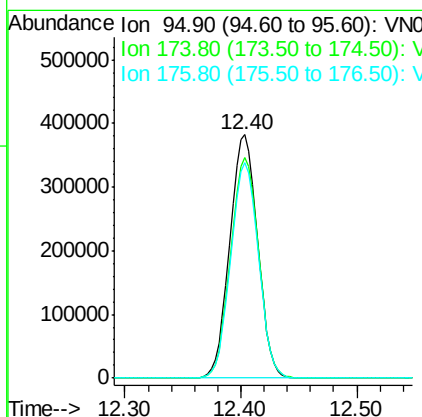
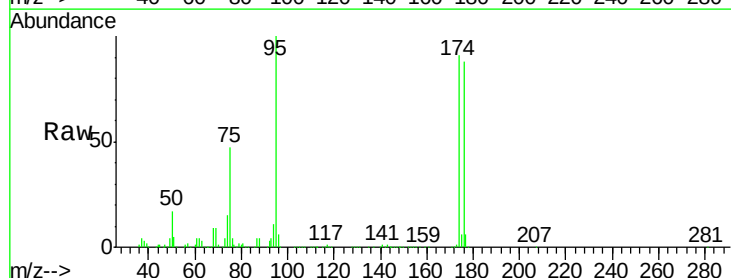
#59
2-Hexanone
Concen: 54.811 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

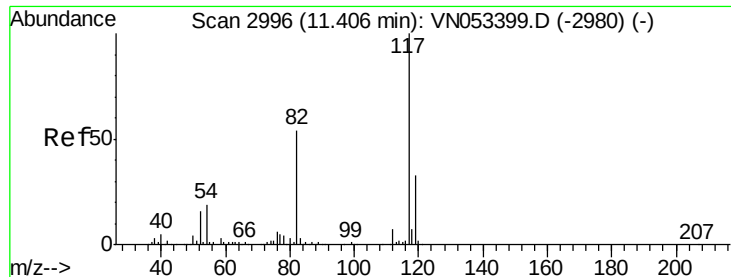
Tot Ion: 43 Resp: 289933
Ion Ratio Lower Upper
43 100
58 20.3 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

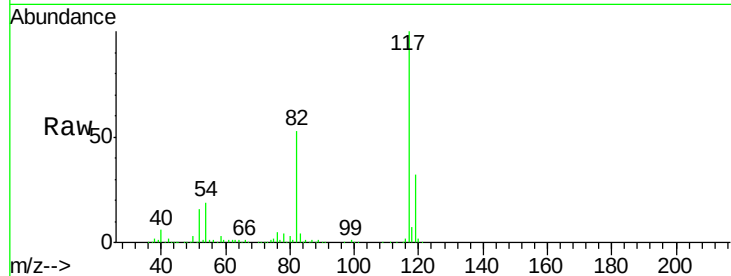
Tgt Ion: 95 Resp: 631346
Ion Ratio Lower Upper
95 100
174 91.5 0.0 183.2
176 88.2 0.0 177.4



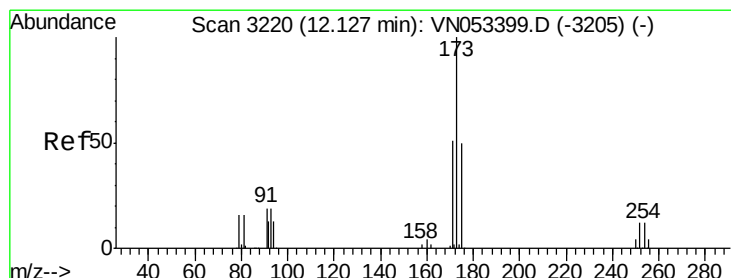
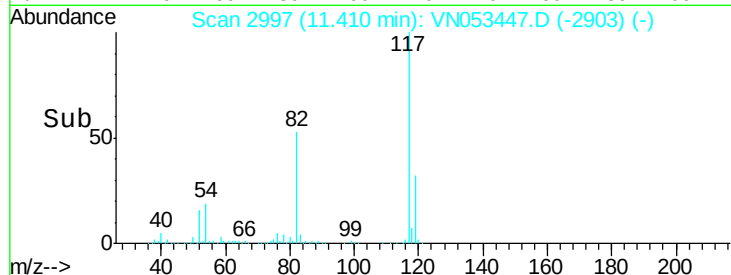
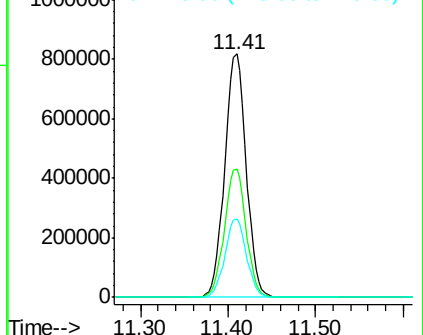


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tot Ion:117 Resp: 1393868
Ion Ratio Lower Upper
117 100
82 52.6 42.9 64.3
119 32.5 26.0 39.0

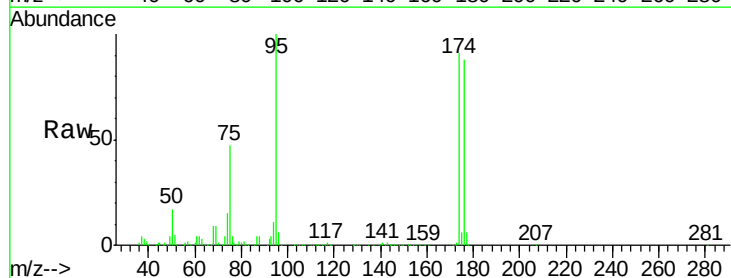


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

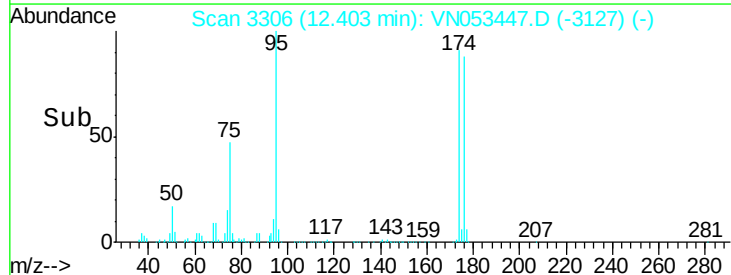
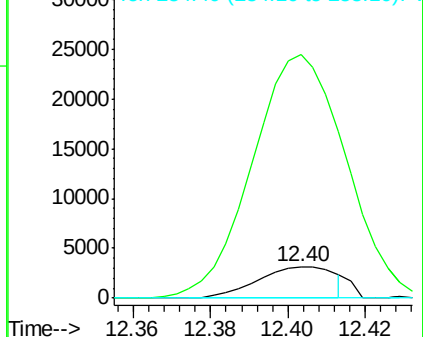


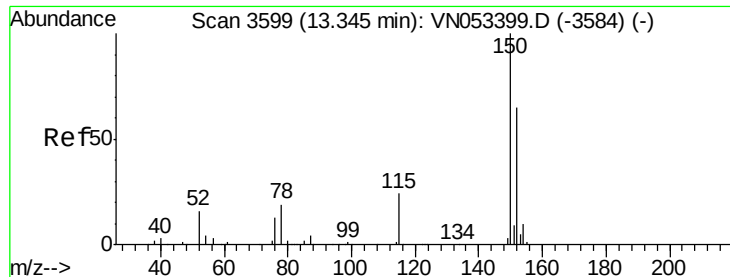
#71
Bromoform
Concen: 0.613 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion:173 Resp: 4329
Ion Ratio Lower Upper
173 100
175 811.3 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

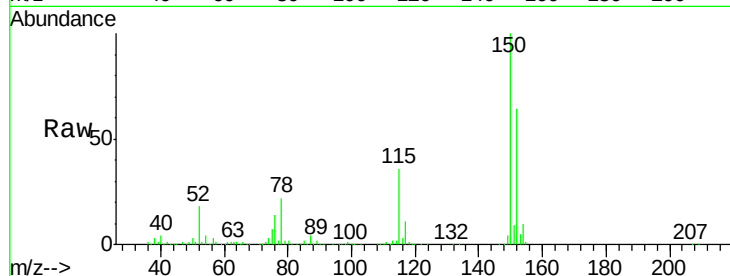




#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.9	27.8	83.4
150	156.7	0.0	349.0

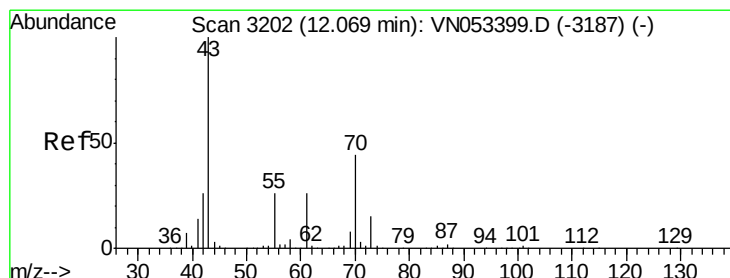
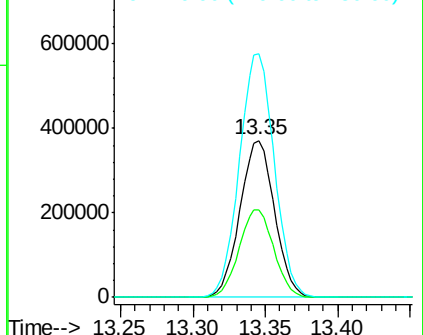
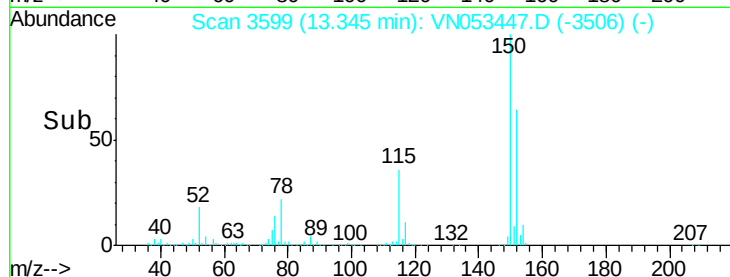


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

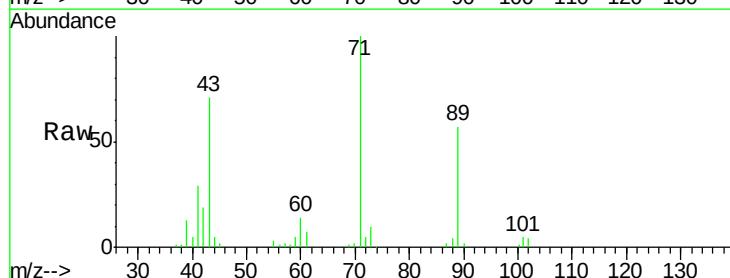
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.822 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.4	35.4	53.2#
55	4.5	20.9	31.3#
61	10.7	20.5	30.7#



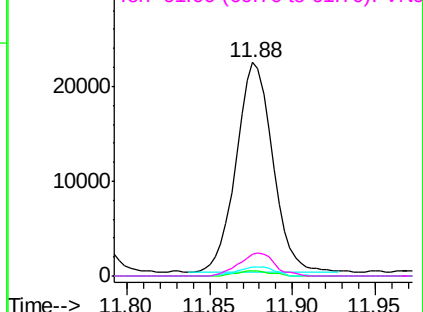
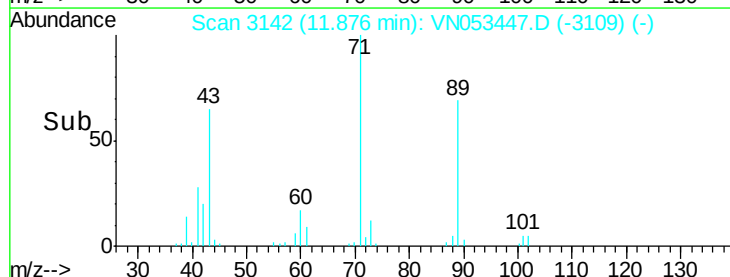
Abundance

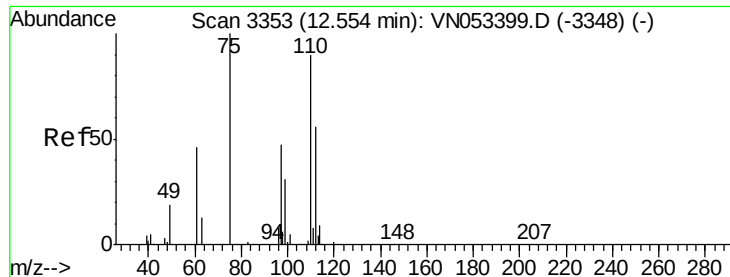
Ion 43.00 (42.70 to 43.70): V

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

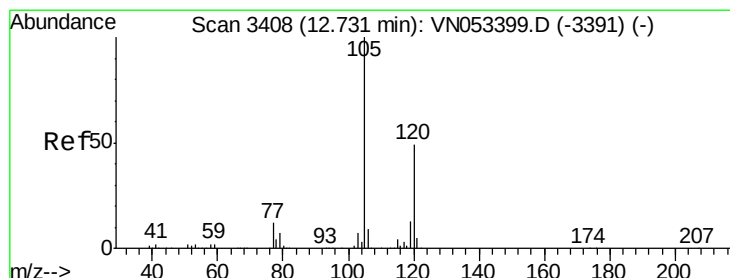
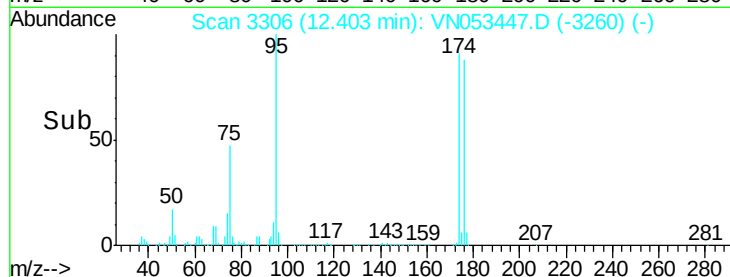
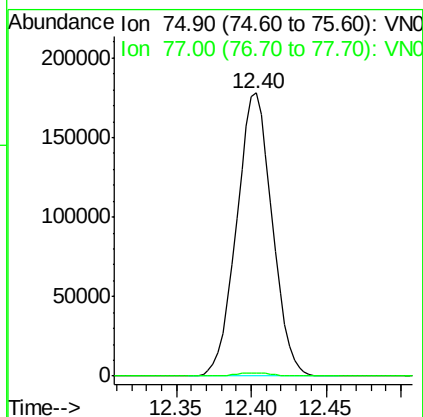
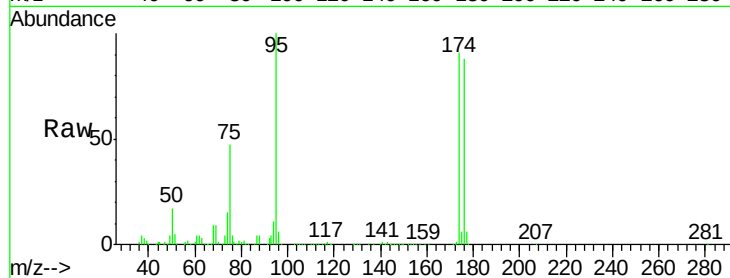




#76

1,2,3-Trichloropropane
Concen: 36.171 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

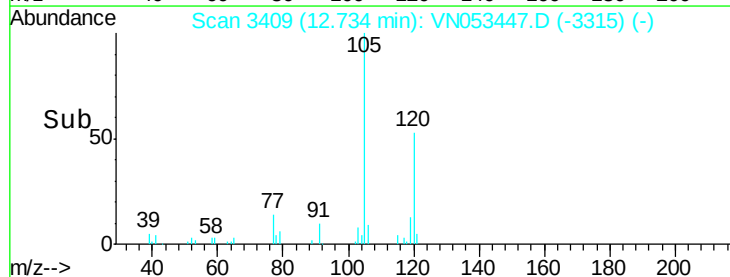
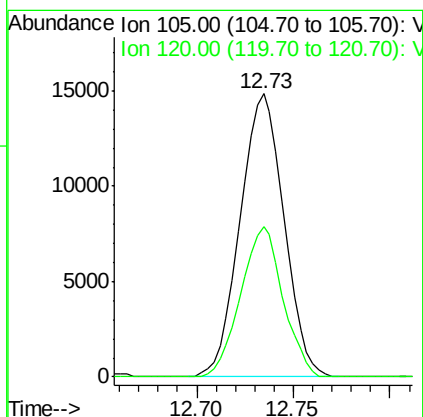
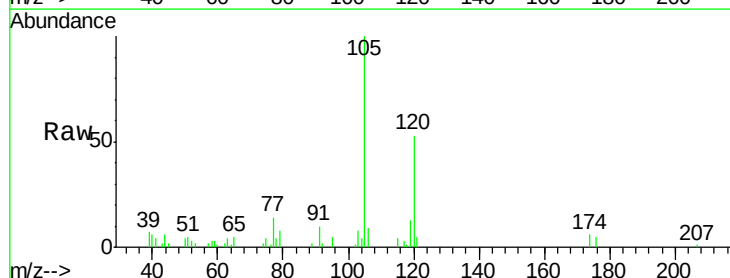
Tot Ion: 75 Resp: 294123
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

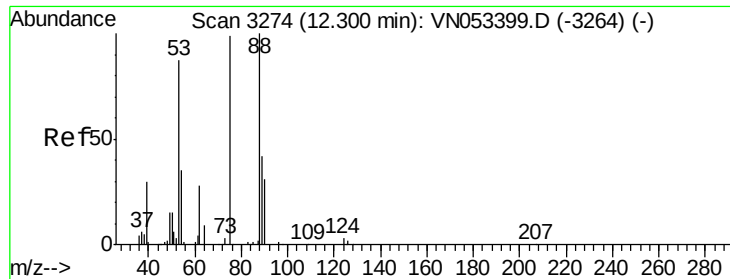


#80

1,3,5-Trimethylbenzene
Concen: 0.637 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053447.D
Acq: 17 Jan 2019 20:53

Tgt Ion: 105 Resp: 23437
Ion Ratio Lower Upper
105 100
120 51.1 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 89.434 ug/l

RT: 12.40 min Scan# 3306

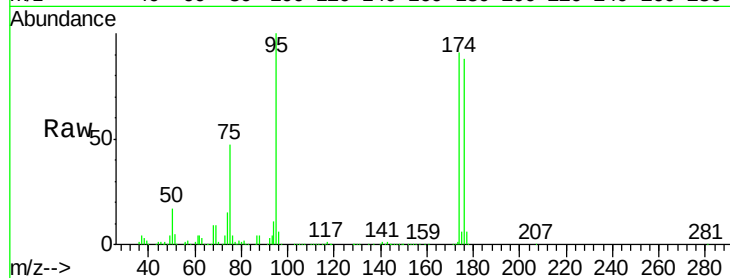
Delta R.T. 0.10 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

Tot Ion: 75 Resp: 294123

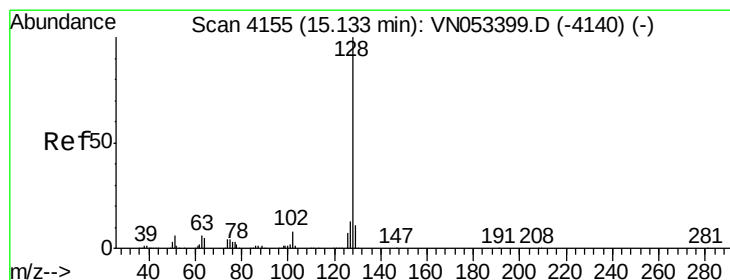
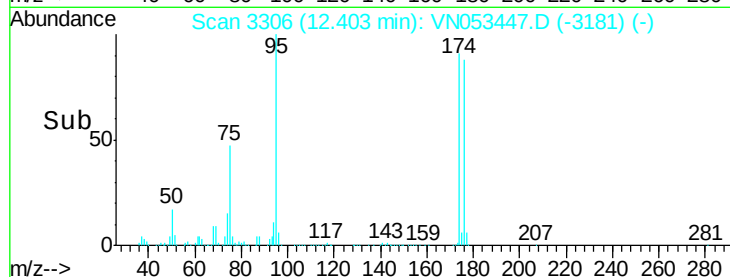
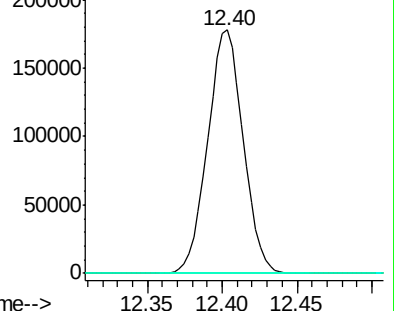
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.951 ug/l

RT: 15.14 min Scan# 4157

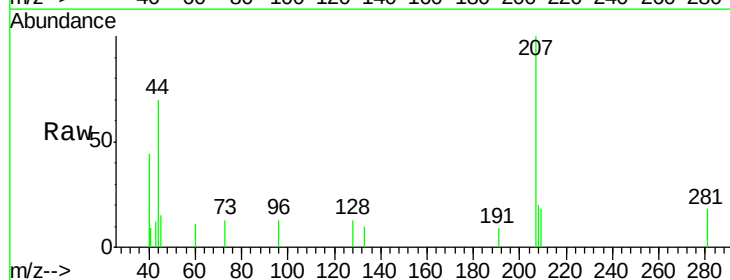
Delta R.T. 0.01 min

Lab File: VN053447.D

Acq: 17 Jan 2019 20:53

Tgt Ion: 128 Resp: 200

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

