

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053660.D
 Acq On : 7 Feb 2019 17:13
 Operator : JC/SP
 Sample : PB116887ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Quant Time: Feb 09 00:30:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	740759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1216792	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1097371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	452172	50.00	ug/l	0.00

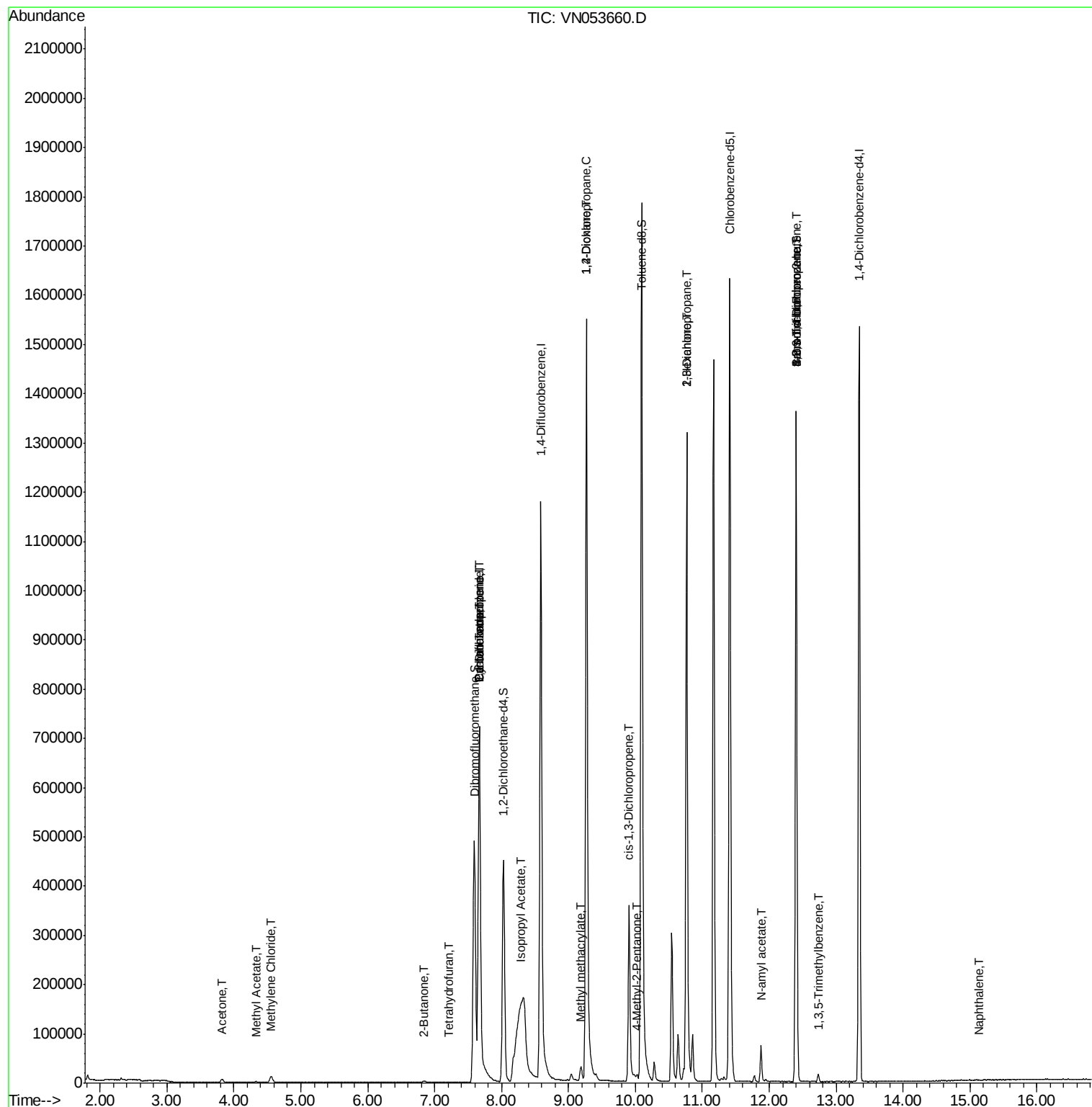
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	386023	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
35) Dibromofluoromethane	7.59	113	384071	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	10.09	98	1464521	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	12.40	95	476984	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	

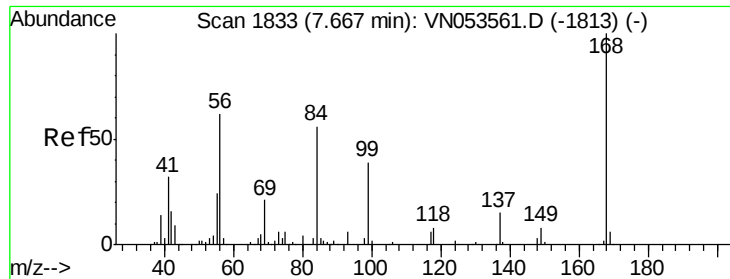
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	13014	6.827	ug/l	97
18) Methyl Acetate	4.33	43	2451	0.434	ug/l #	75
20) Methylene Chloride	4.56	84	10267	1.284	ug/l	97
25) 2-Butanone	6.85	43	5344	1.966	ug/l	93
29) Tetrahydrofuran	7.21	42	402	0.230	ug/l #	85
31) Cyclohexane	7.67	56	10245	0.648	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44356	4.044	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57877	5.238	ug/l #	16
43) Isopropyl Acetate	8.27	43	237421	20.068	ug/l #	52
45) 1,2-Dichloropropane	9.27	63	2286	0.264	ug/l #	43
48) Methyl methacrylate	9.18	41	11644	2.062	ug/l #	12
49) 1,4-Dioxane	9.28	88	104	40.319	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9672	1.664	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	76630	5.956	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	15337	1.241	ug/l #	43
59) 2-Hexanone	10.76	43	200153	50.714	ug/l #	50
71) Bromoform	12.40	173	3281	0.588	ug/l #	1
74) N-amyl acetate	11.88	43	22672	2.966	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	221100	38.069	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7326	0.278	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	221100	107.047	ug/l #	15
95) Naphthalene	15.14	128	151	1.744	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 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: VN053660.D

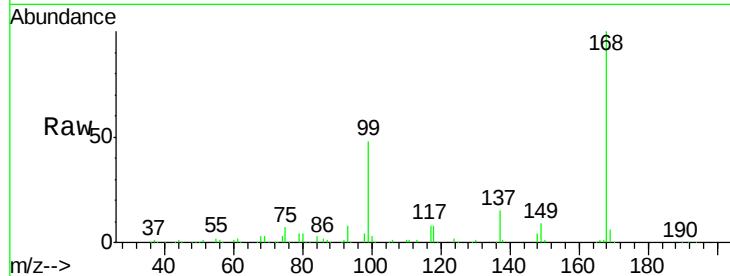
Acq: 7 Feb 2019 17:13

Tot Ion:168 Resp: 740759

Ion Ratio Lower Upper

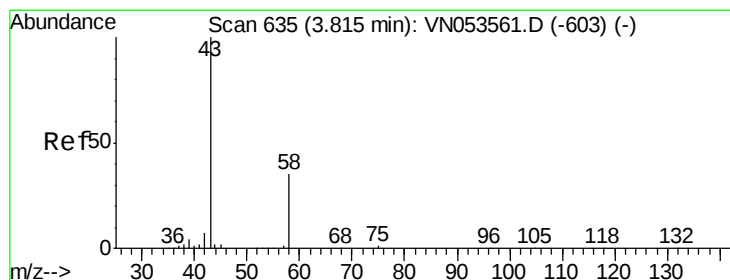
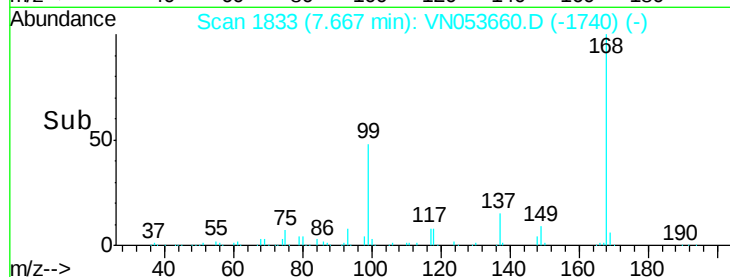
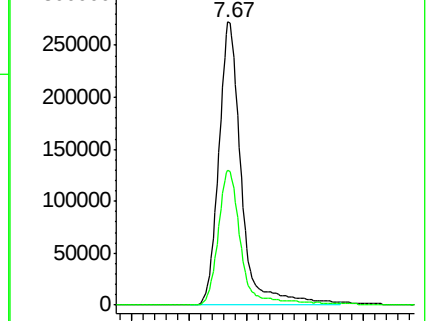
168 100

99 47.8 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: 6.827 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053660.D

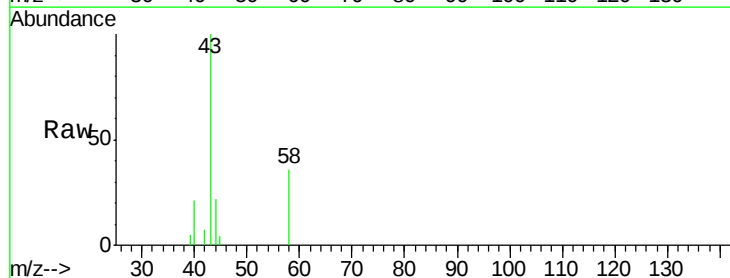
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 13014

Ion Ratio Lower Upper

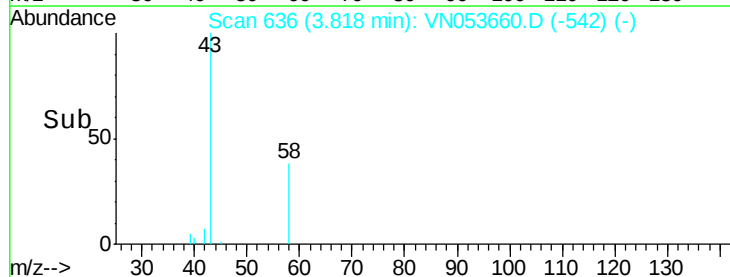
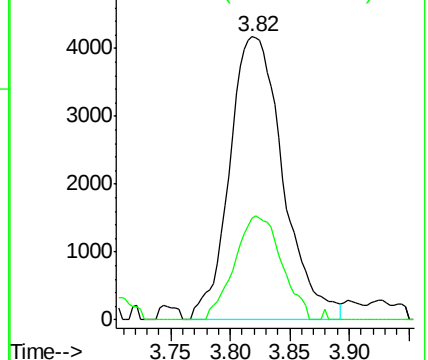
43 100

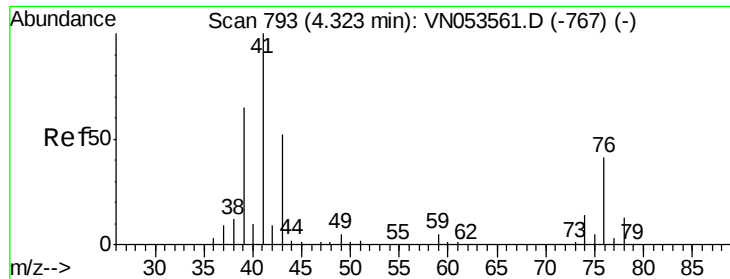
58 35.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

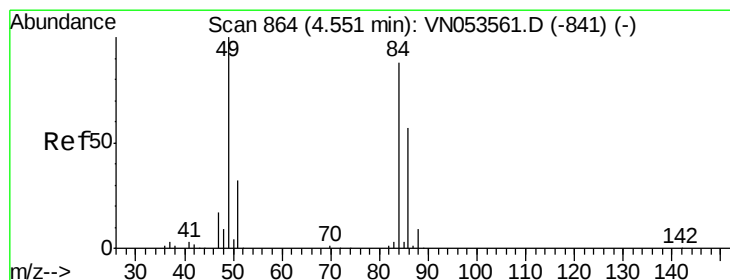
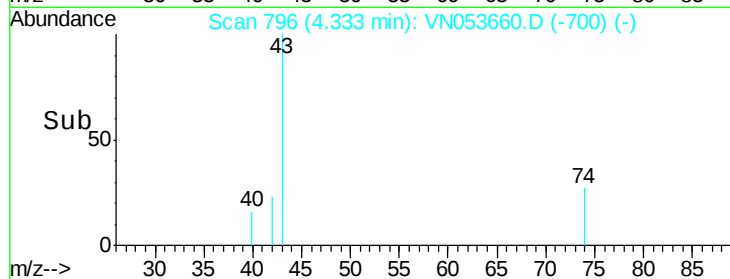
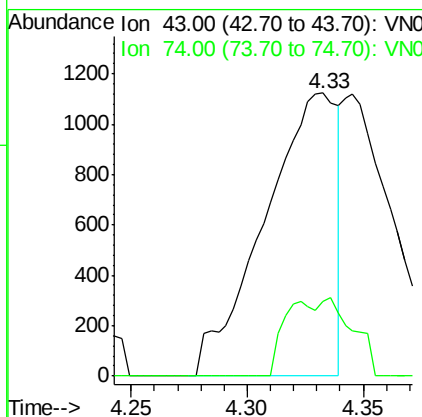
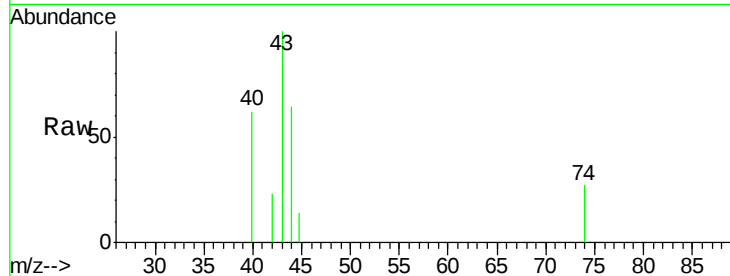
Ion 58.00 (57.70 to 58.70): VNO





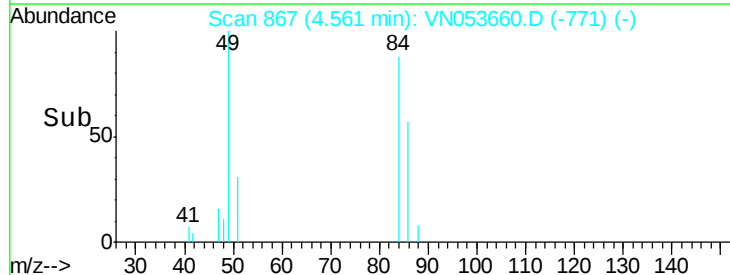
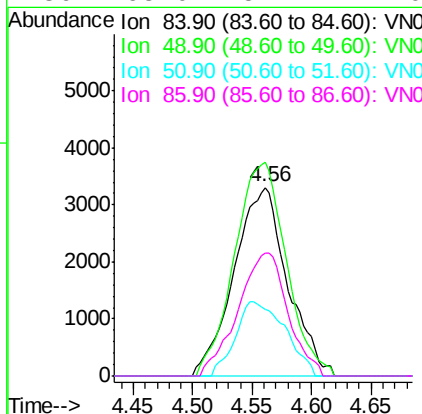
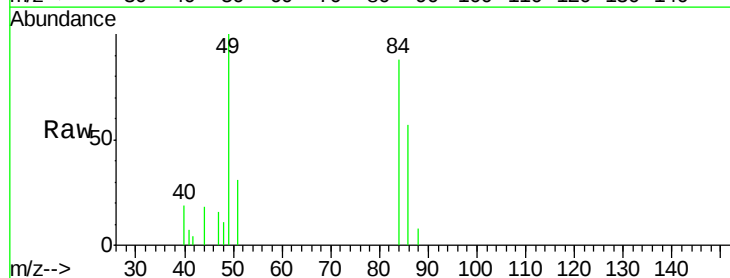
#18
Methyl Acetate
Concen: 0.434 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

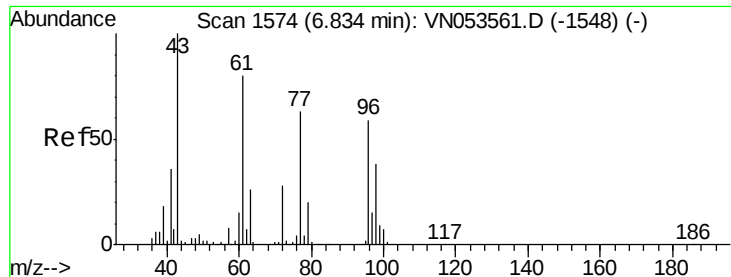
Tot Ion: 43 Resp: 2451
Ion Ratio Lower Upper
43 100
74 12.0 19.4 29.2#



#20
Methylene Chloride
Concen: 1.284 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tgt Ion: 84 Resp: 10267
Ion Ratio Lower Upper
84 100
49 113.4 94.3 141.5
51 35.6 29.4 44.2
86 65.0 51.4 77.0





#25

2-Butanone

Concen: 1.966 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053660.D

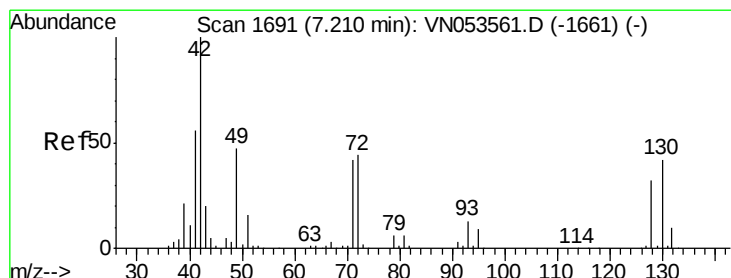
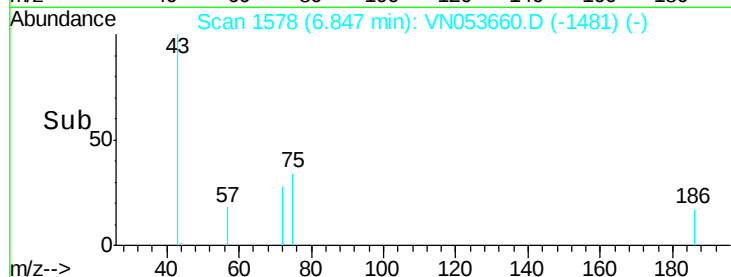
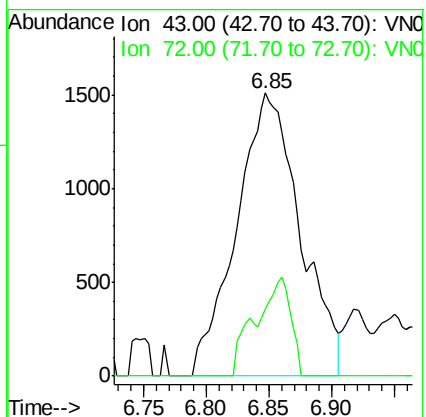
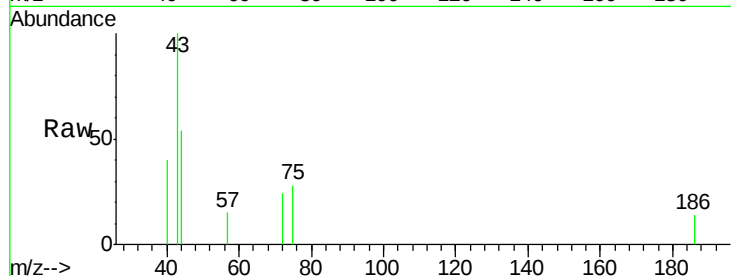
Acq: 7 Feb 2019 17:13

Tot Ion: 43 Resp: 5344

Ion Ratio Lower Upper

43 100

72 23.8 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

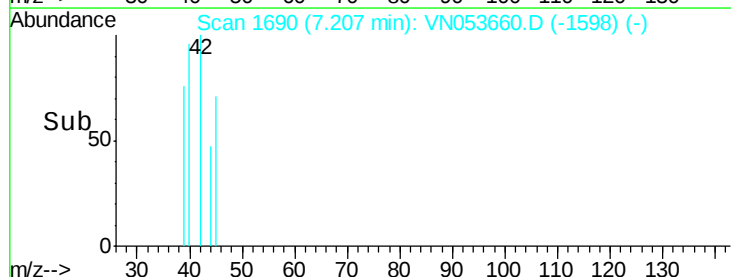
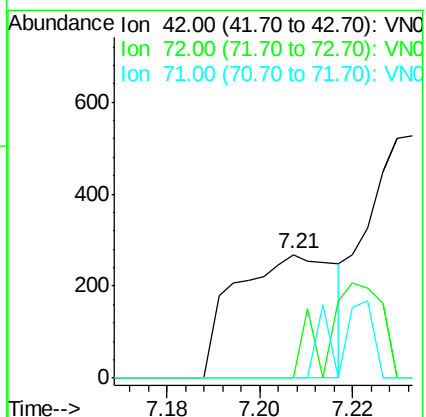
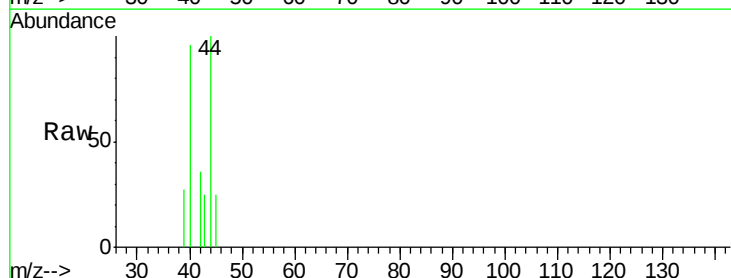
Tgt Ion: 42 Resp: 402

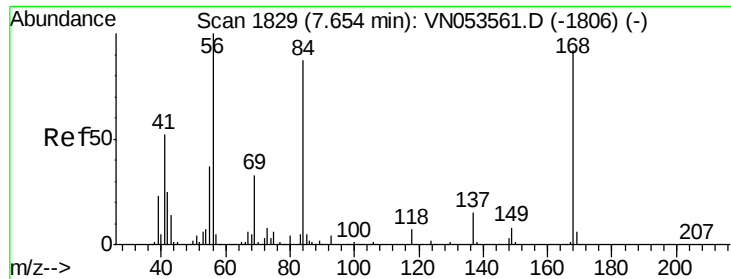
Ion Ratio Lower Upper

42 100

72 42.3 35.2 52.8

71 23.1 33.0 49.4#





#31

Cvclohexane

Concen: 0.648 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

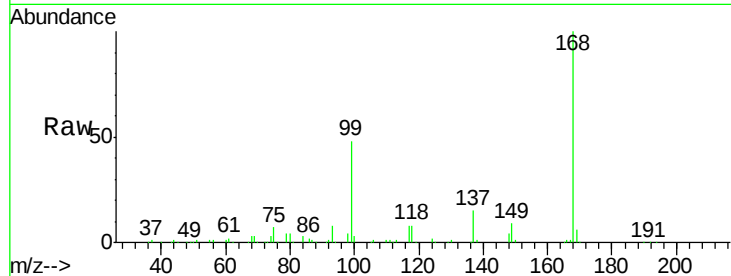
Tot Ion: 56 Resp: 10245

Ion Ratio Lower Upper

56 100

69 200.6 26.4 39.6#

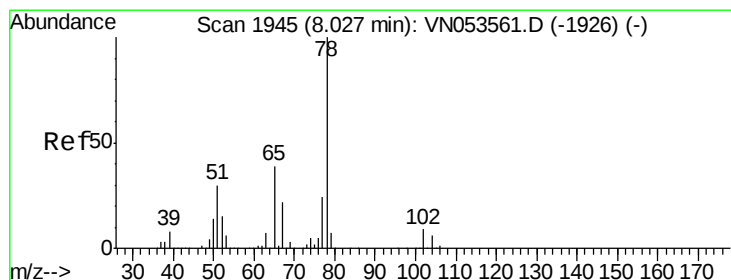
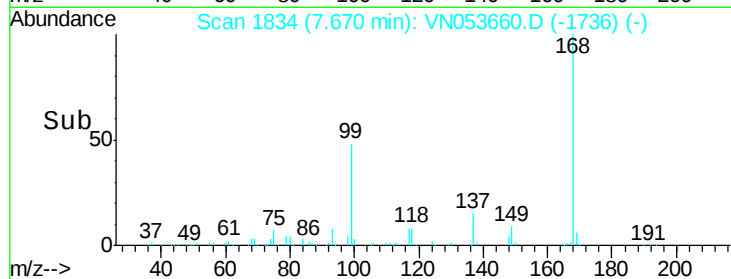
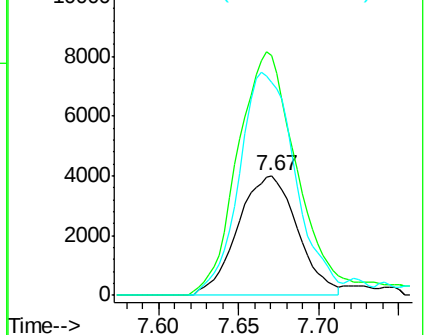
84 177.6 67.9 101.9#



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: VN053660.D

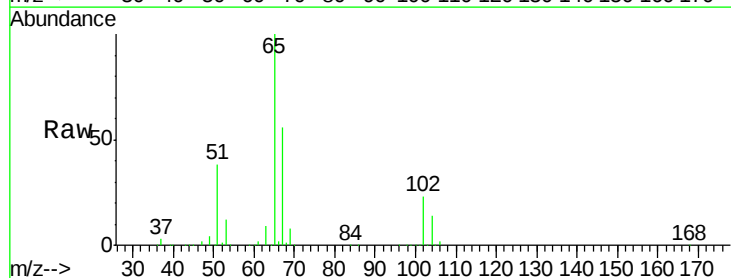
Acq: 7 Feb 2019 17:13

Tgt Ion: 65 Resp: 386023

Ion Ratio Lower Upper

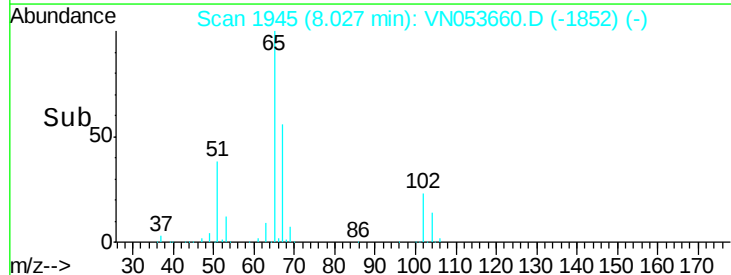
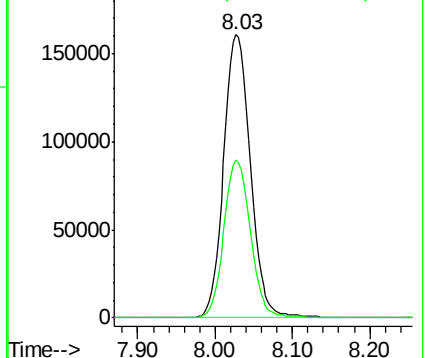
65 100

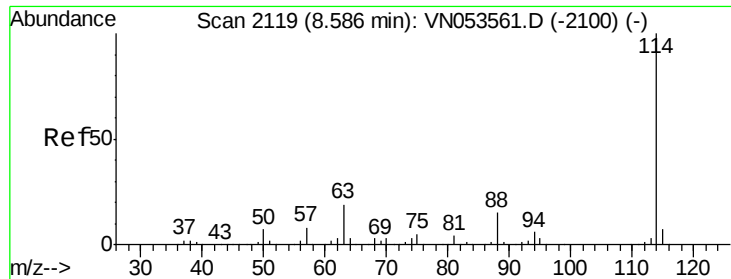
67 55.6 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

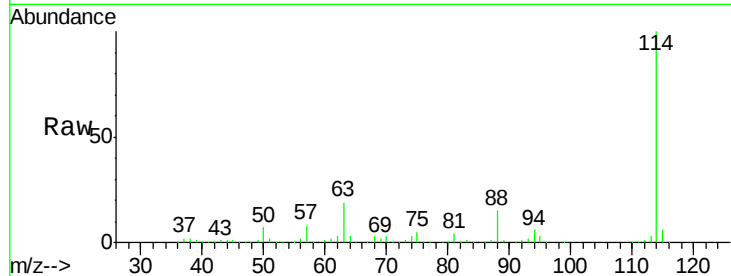




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tot Ion:114 Resp: 1216792

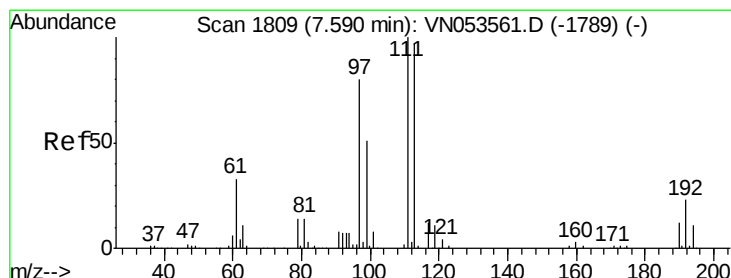
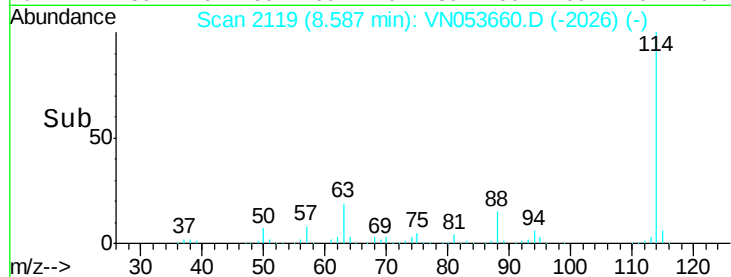
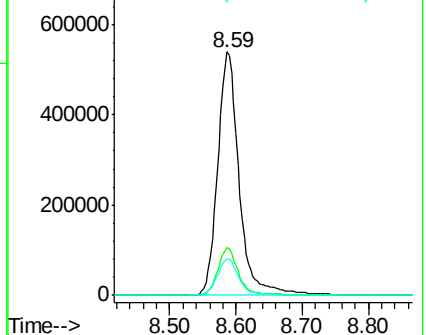
Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.6
88	15.0	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

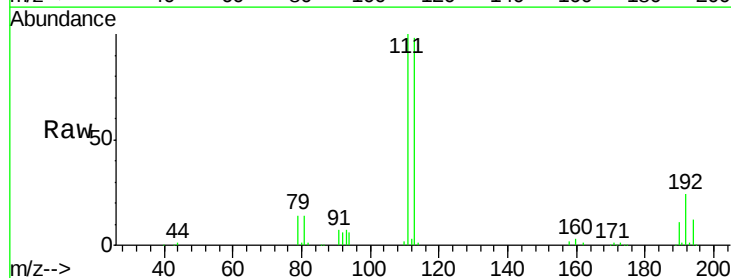
Ion 87.90 (87.60 to 88.60): VN



#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tgt Ion:113 Resp: 384071

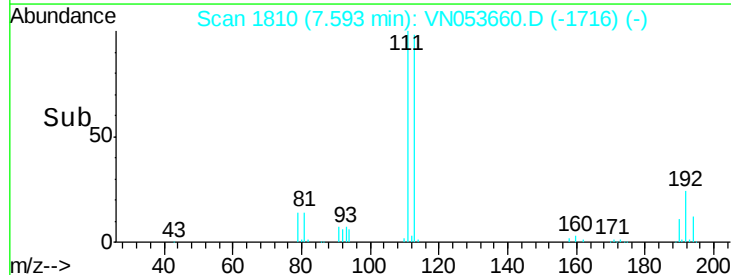
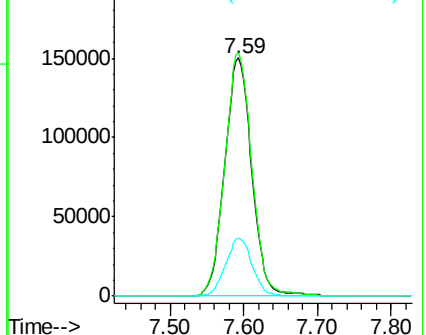
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	23.8	18.2	27.2

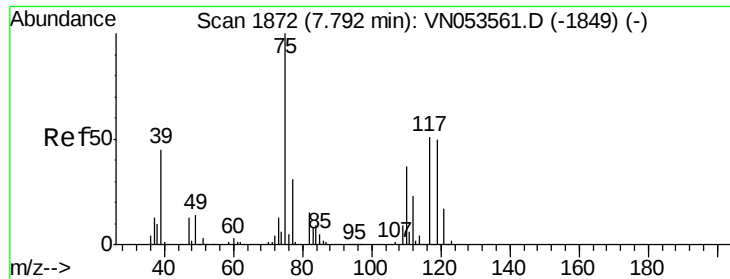


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.044 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

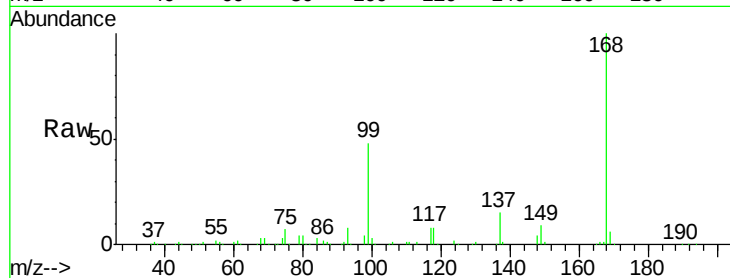
Tot Ion: 75 Resp: 44356

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

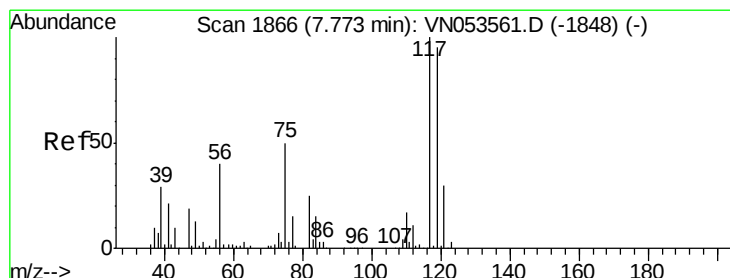
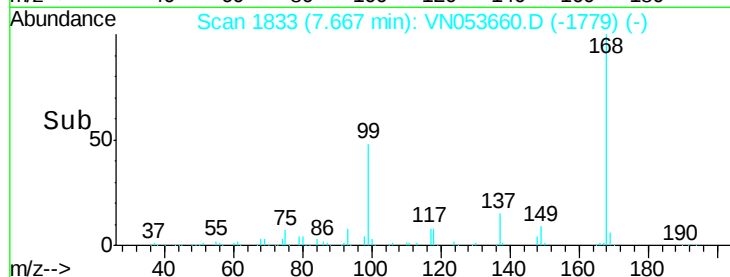
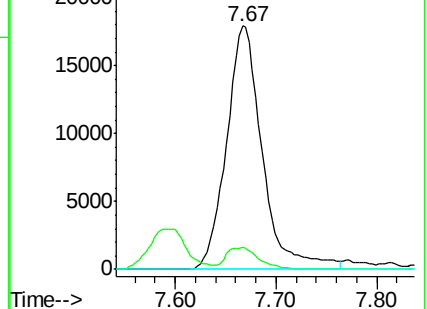
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 5.238 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

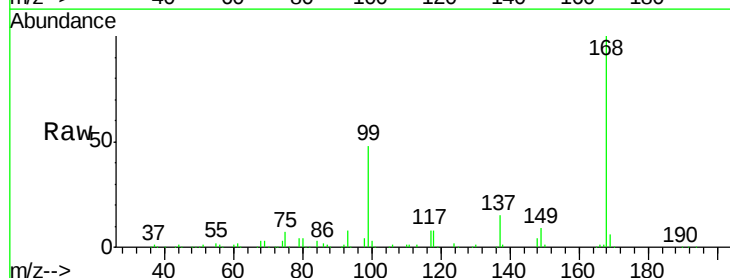
Tgt Ion: 117 Resp: 57877

Ion Ratio Lower Upper

117 100

119 6.1 77.2 115.8#

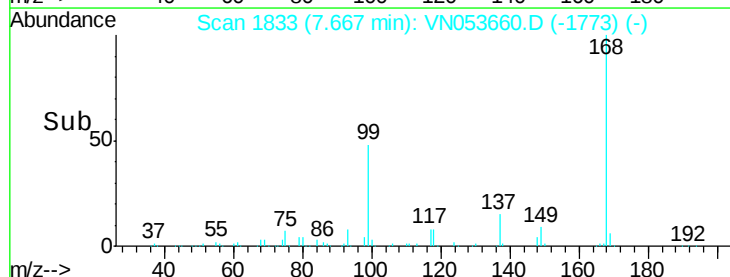
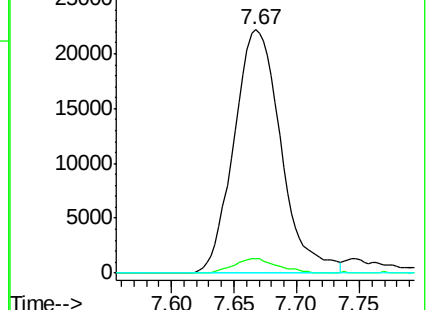
121 0.0 24.6 37.0#

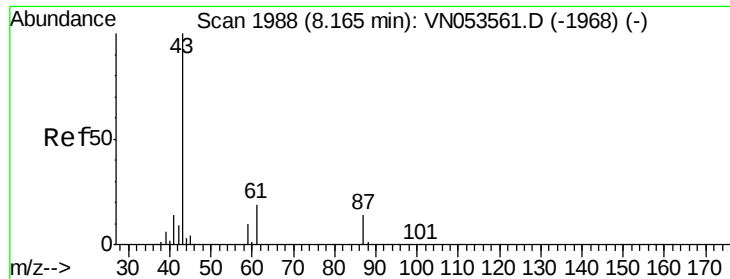


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)

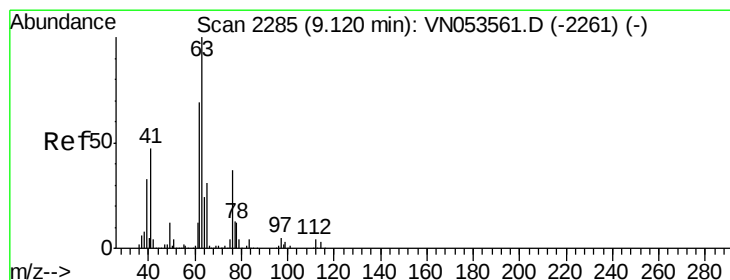
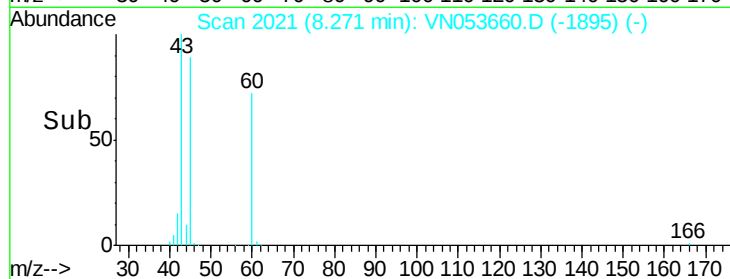
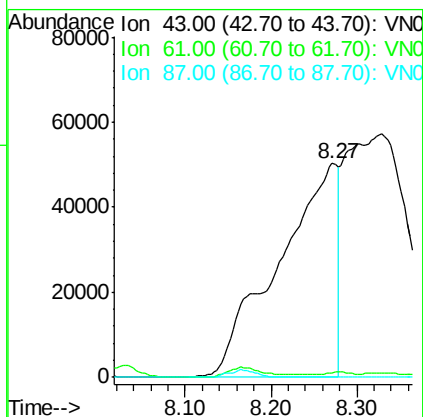
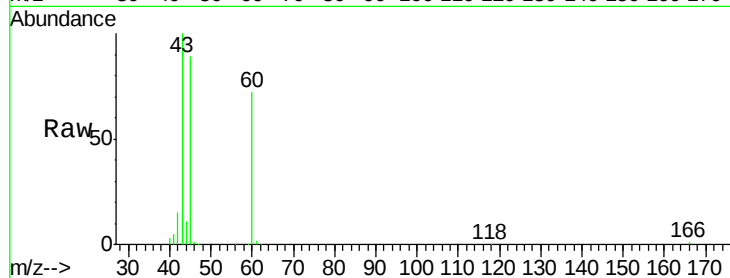




#43

Isopropyl Acetate
 Concen: 20.068 ug/l
 RT: 8.27 min Scan# 2021
 Delta R.T. 0.11 min
 Lab File: VN053660.D
 Acq: 7 Feb 2019 17:13

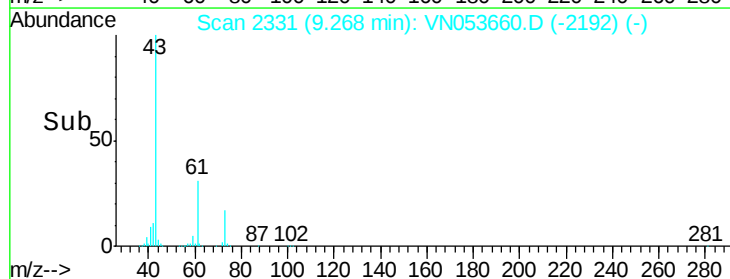
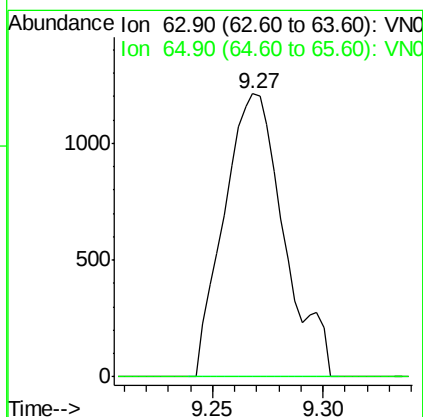
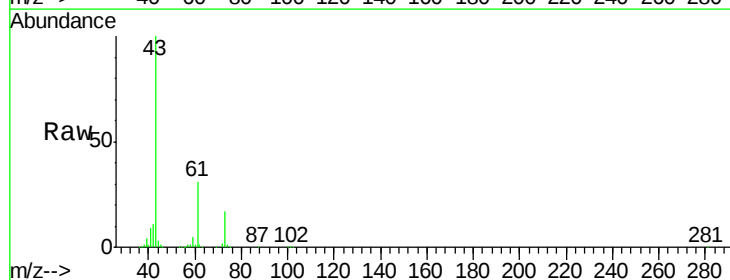
Tot Ion	43	Resp	237421
Ion Ratio	100		
Lower	23.9		
Upper	35.9#		
61	0.5		
87	0.0		
	11.0		
	16.6#		

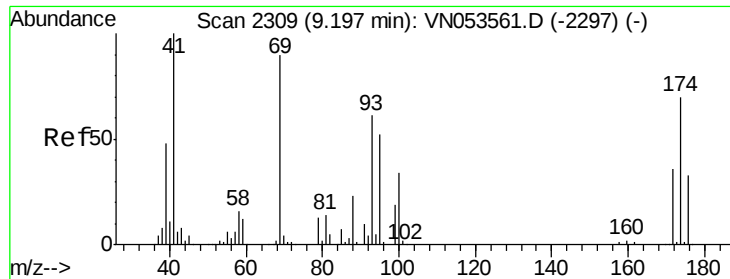


#45

1,2-Dichloropropane
 Concen: 0.264 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053660.D
 Acq: 7 Feb 2019 17:13

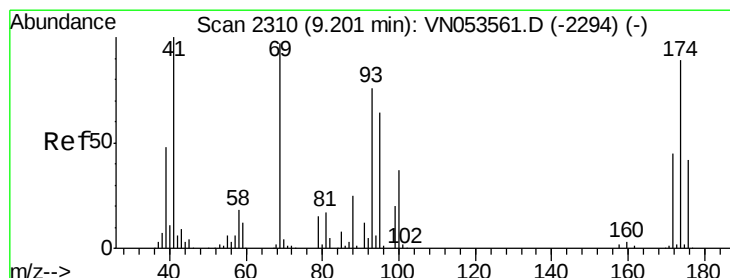
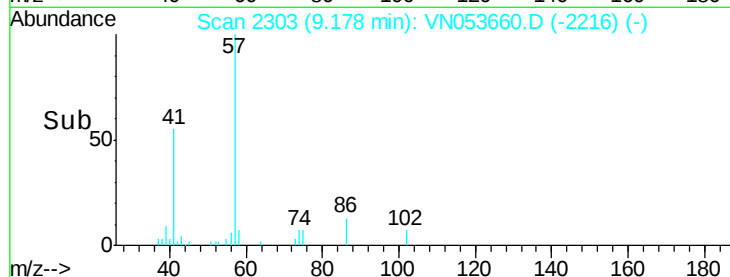
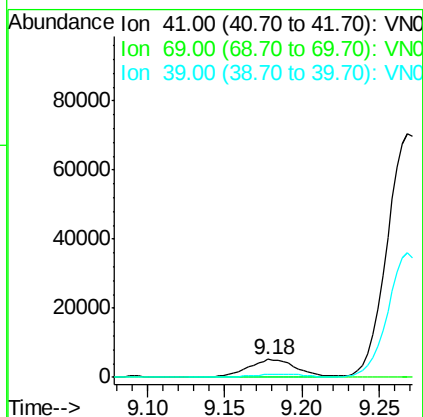
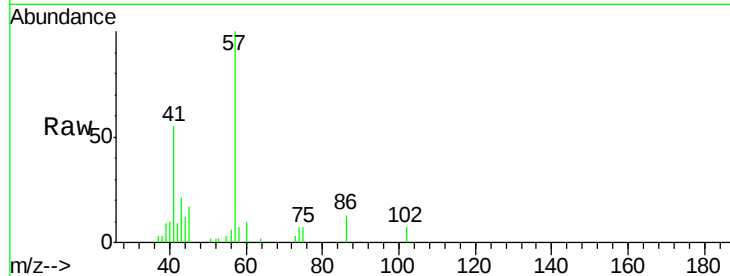
Tgt Ion	63	Resp	2286
Ion Ratio	100		
Lower	25.0		
Upper	37.4#		
65	0.0		





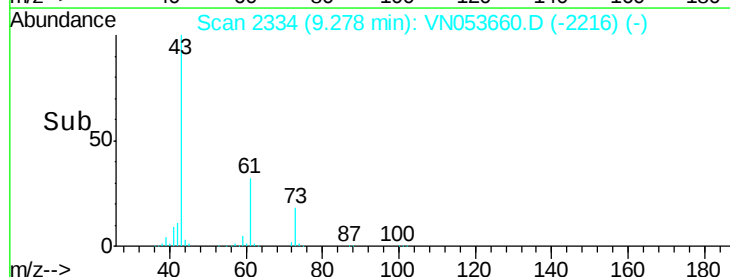
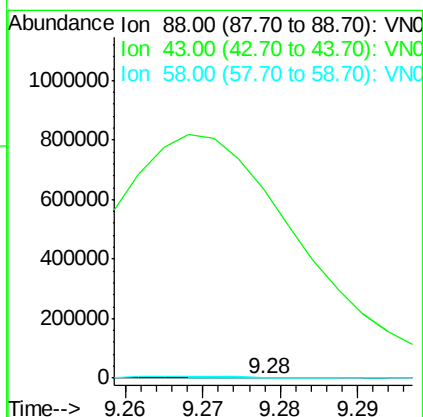
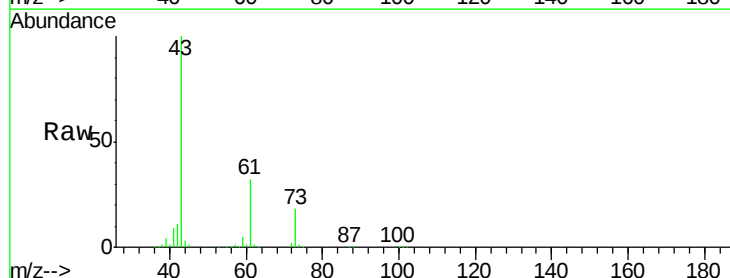
#48
Methvl methacrylate
Concen: 2.062 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

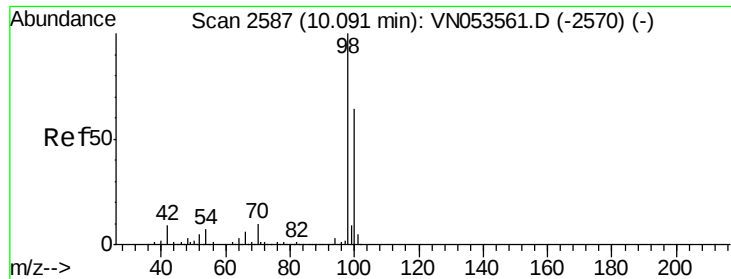
Tot Ion: 41 Resp: 11644
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 40.319 ug/l
RT: 9.28 min Scan# 2334
Delta R.T. 0.08 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

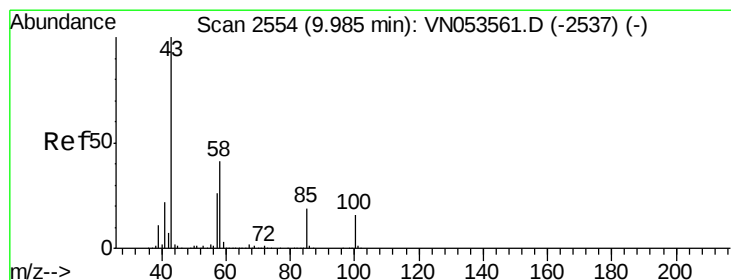
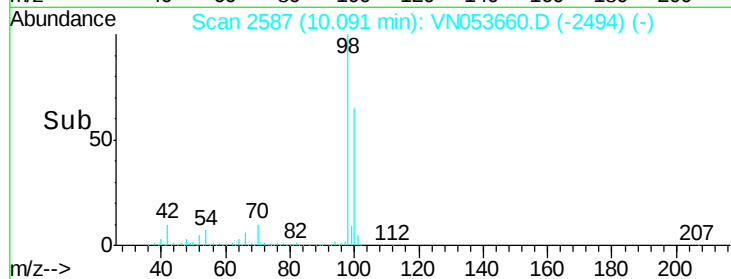
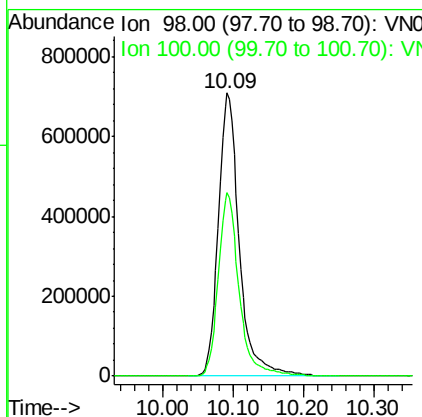
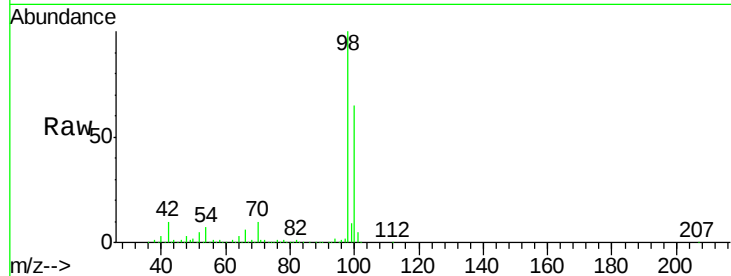
Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 1608568.3 27.8 41.6#
58 8180.8 56.5 84.7#





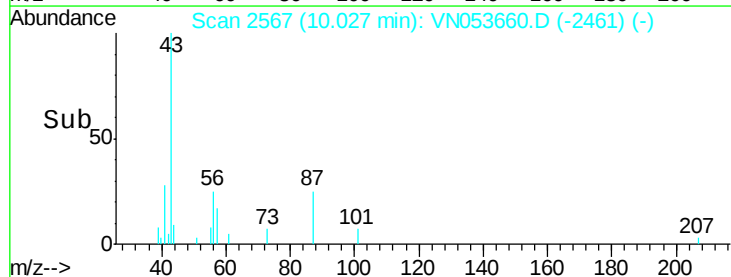
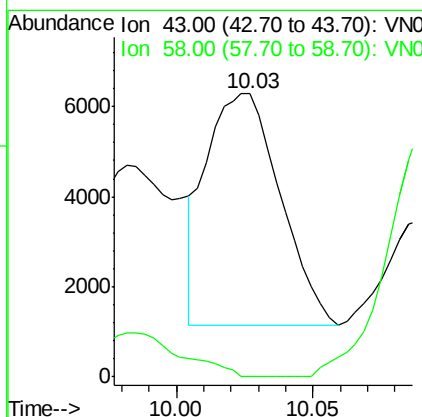
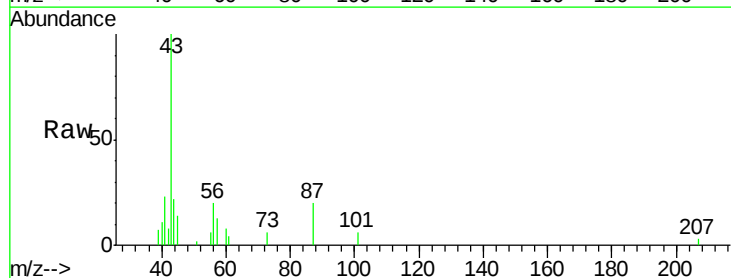
#50
Toluene-d8
Concen: 40.319 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

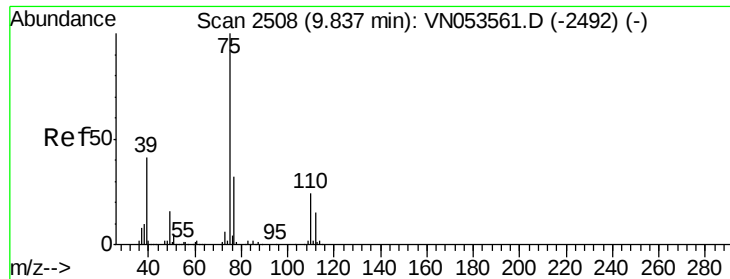
Tot Ion: 98 Resp: 1464521
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.664 ug/l
RT: 10.03 min Scan# 2567
Delta R.T. 0.04 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 9672
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 5.956 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

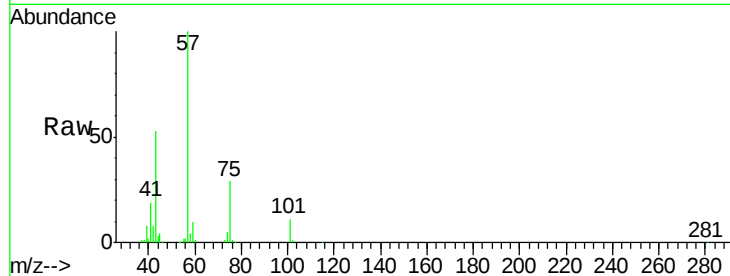
Tot Ion: 75 Resp: 76630

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

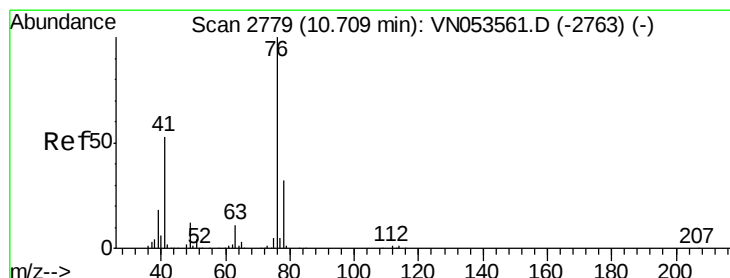
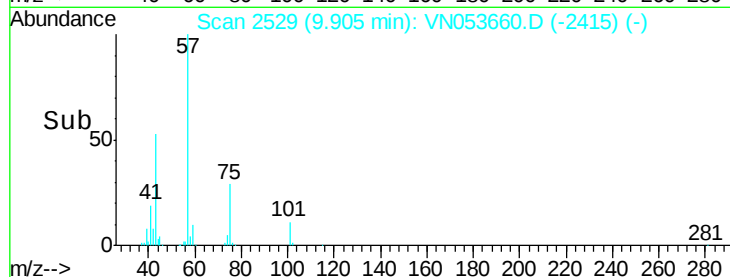
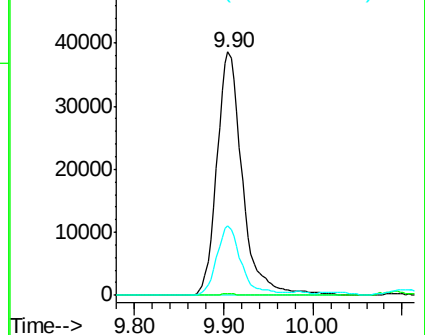
39 28.4 33.4 50.0#



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



#57

1,3-Dichloropropane

Concen: 1.241 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053660.D

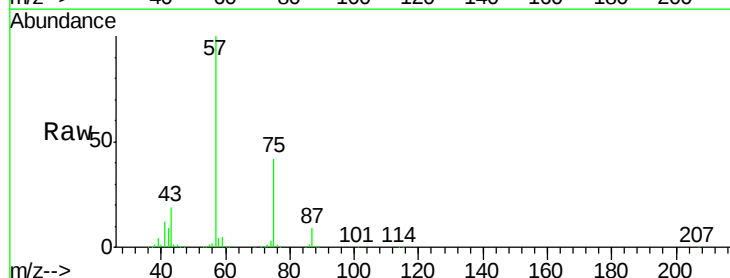
Acq: 7 Feb 2019 17:13

Tgt Ion: 76 Resp: 15337

Ion Ratio Lower Upper

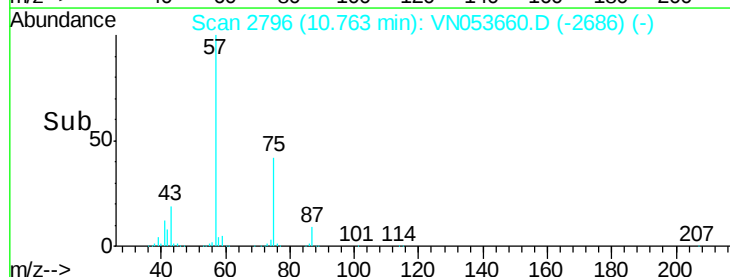
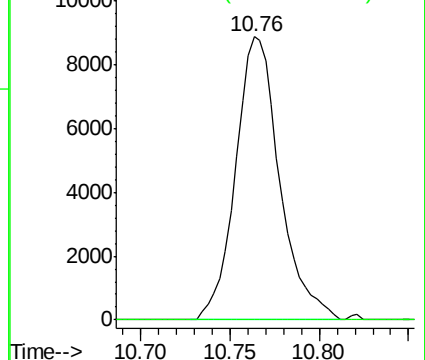
76 100

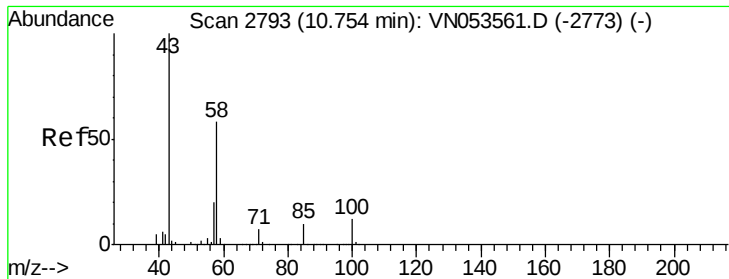
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

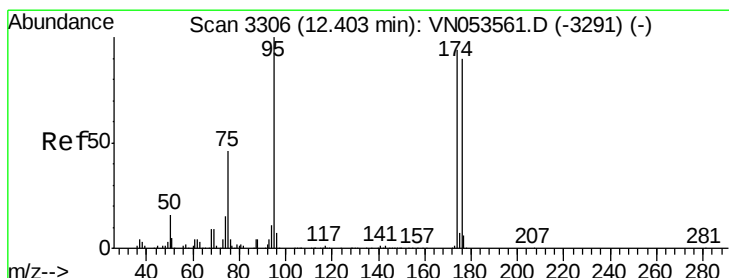
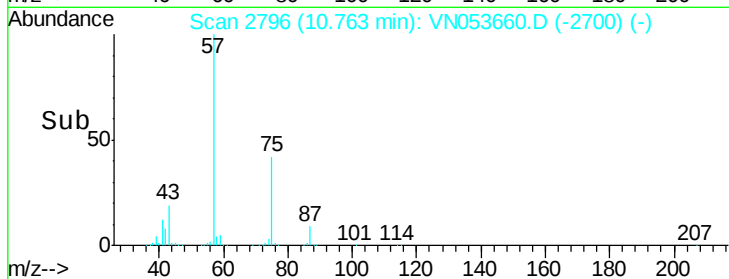
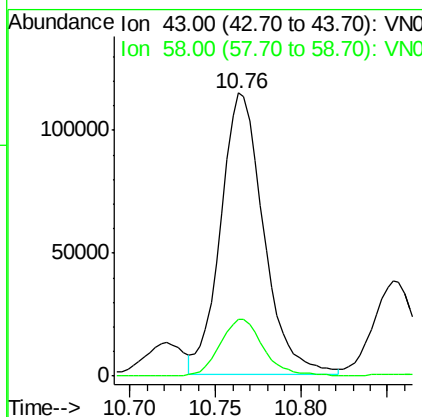
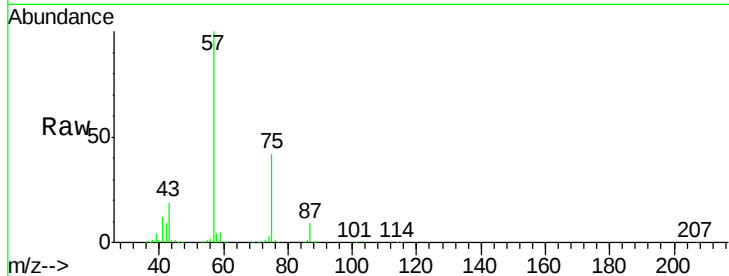
Ion 77.90 (77.60 to 78.60): VN0





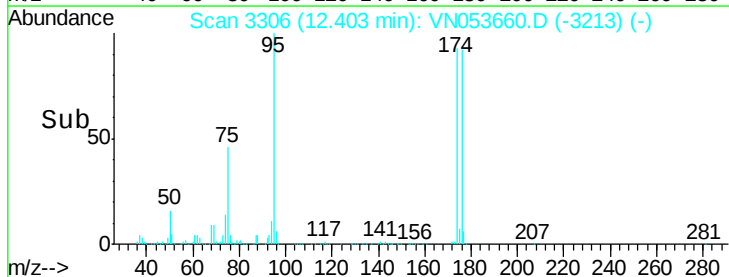
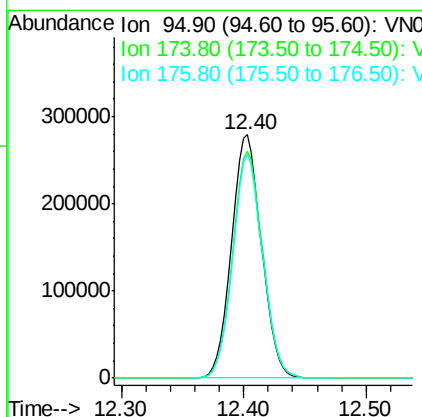
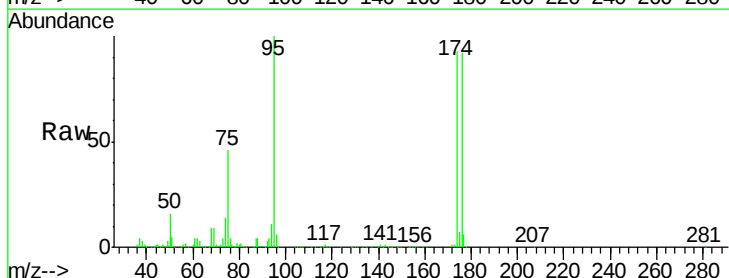
#59
2-Hexanone
Concen: 50.714 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

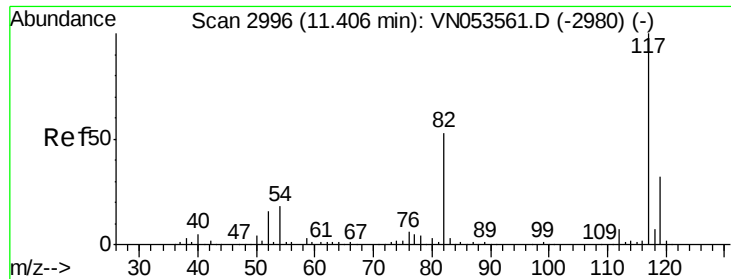
Tot Ion: 43 Resp: 200153
Ion Ratio Lower Upper
43 100
58 20.6 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

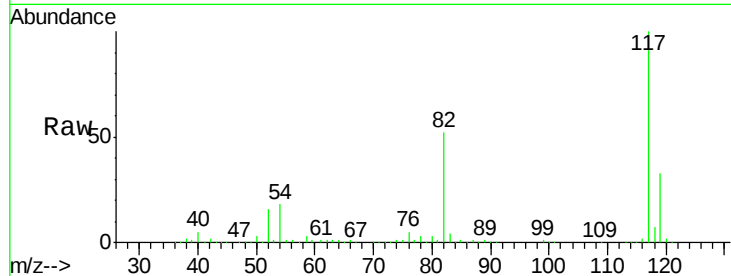
Tgt Ion: 95 Resp: 476984
Ion Ratio Lower Upper
95 100
174 93.7 0.0 183.2
176 91.0 0.0 177.4



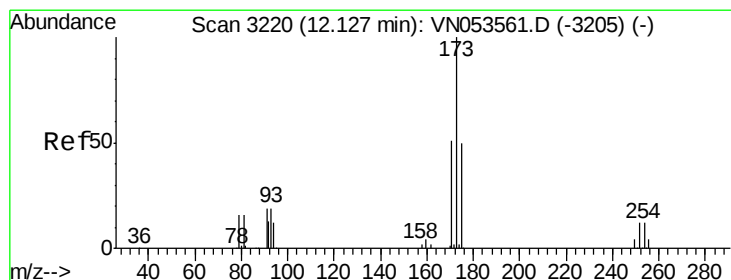
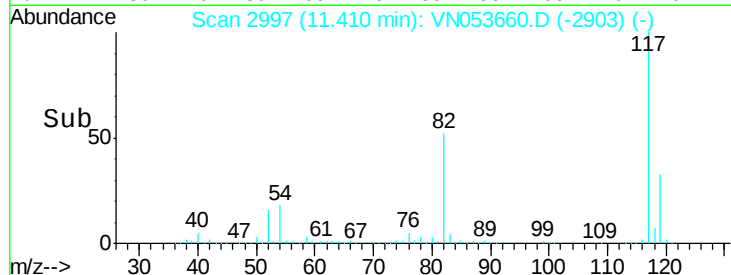
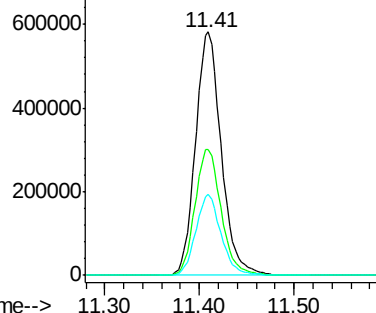


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tot Ion:117 Resp: 1097371
Ion Ratio Lower Upper
117 100
82 51.8 42.9 64.3
119 33.1 26.0 39.0

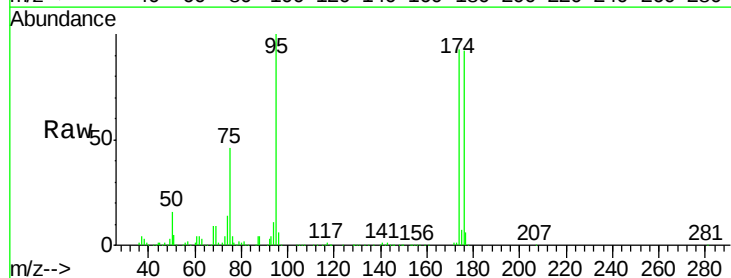


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

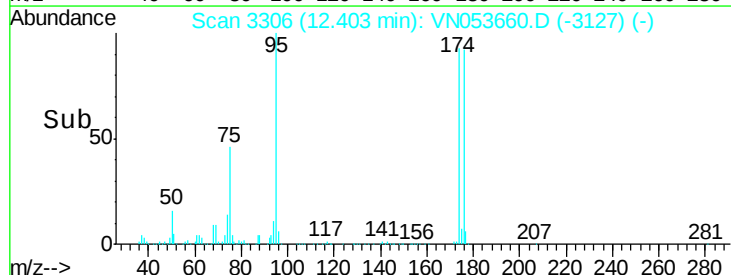
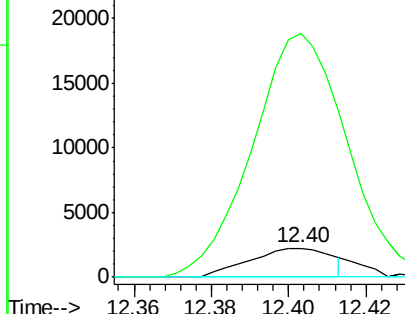


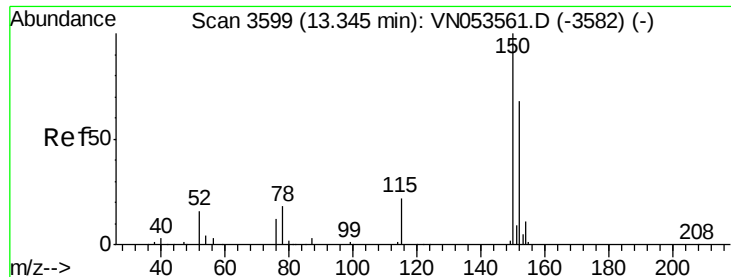
#71
Bromoform
Concen: 0.588 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tgt Ion:173 Resp: 3281
Ion Ratio Lower Upper
173 100
175 822.0 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

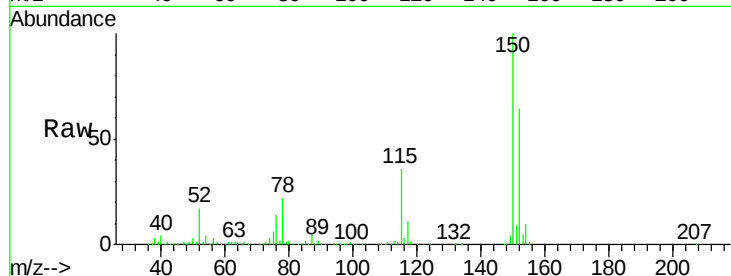




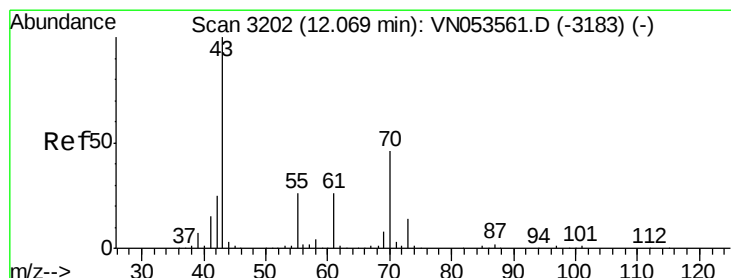
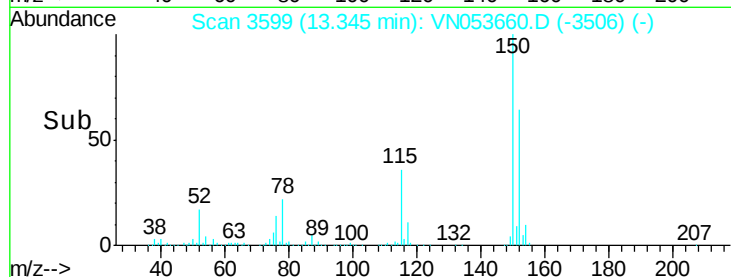
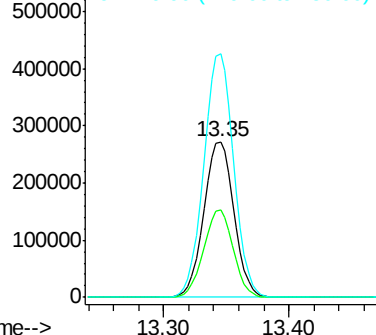
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.8	83.4
150	155.5	0.0	349.0



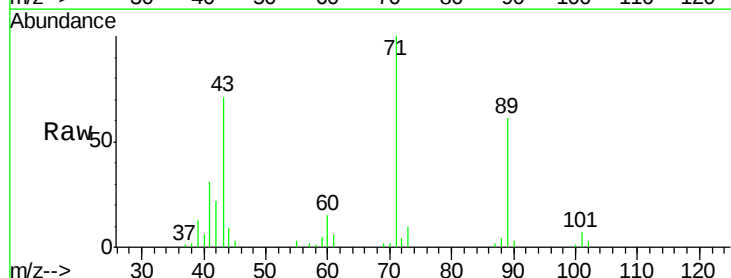
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



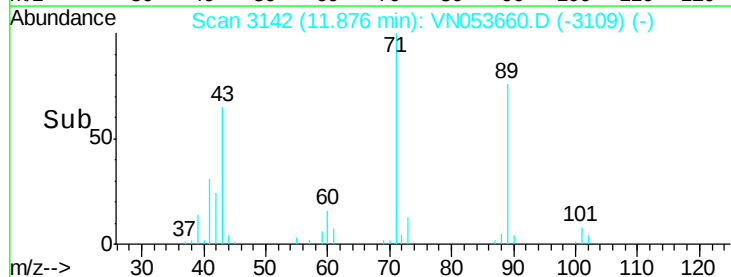
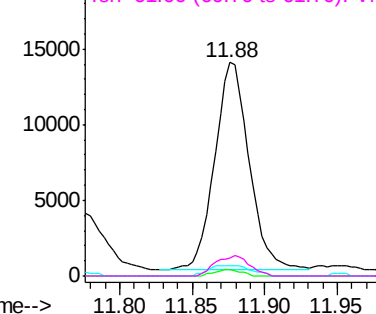
#74

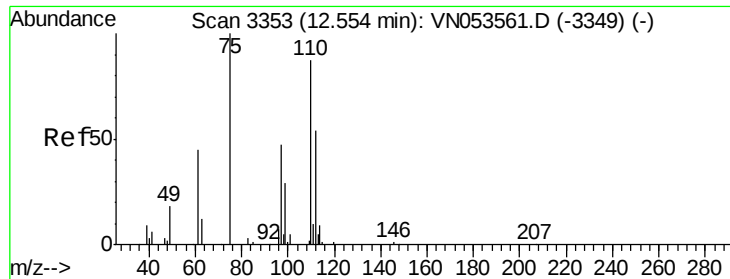
N-ethyl acetate
Concen: 2.966 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053660.D
Acq: 7 Feb 2019 17:13

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.4	35.4	53.2#
55	6.1	20.9	31.3#
61	9.7	20.5	30.7#



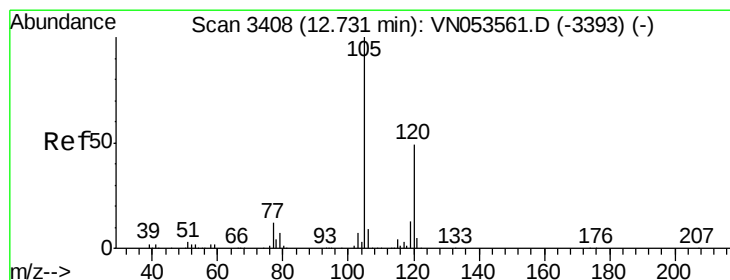
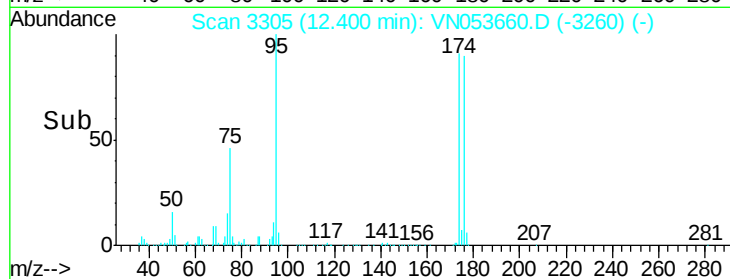
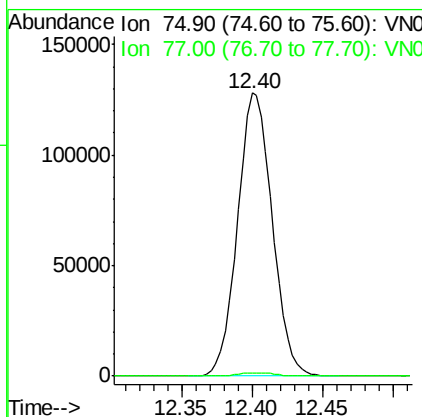
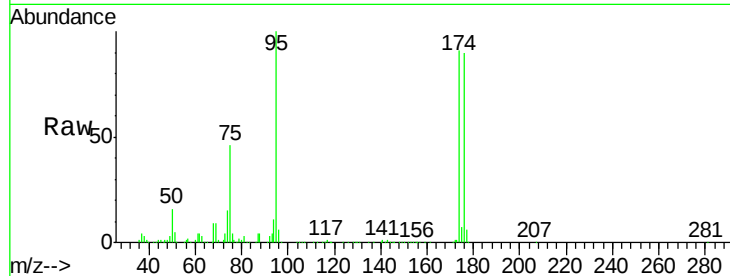
Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





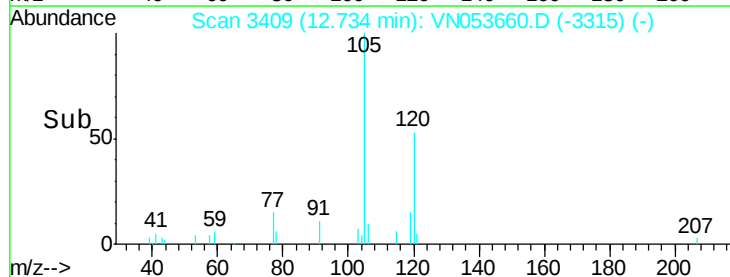
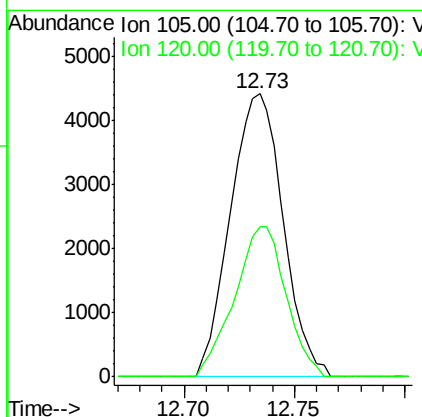
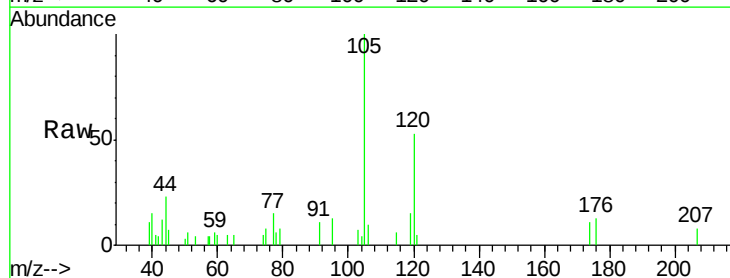
#76
 1,2,3-Trichloropropane
 Concen: 38.069 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN053660.D
 Acq: 7 Feb 2019 17:13

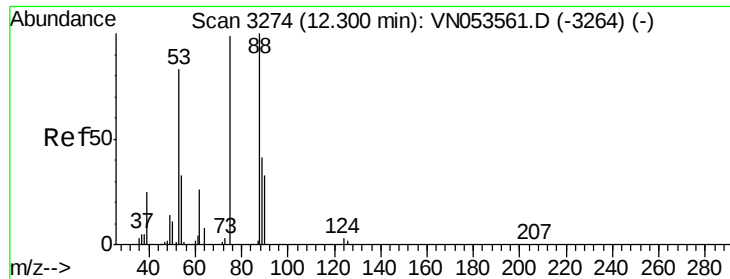
Tot Ion: 75 Resp: 221100
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.278 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053660.D
 Acq: 7 Feb 2019 17:13

Tgt Ion: 105 Resp: 7326
 Ion Ratio Lower Upper
 105 100
 120 51.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 107.047 ug/l

RT: 12.40 min Scan# 3305

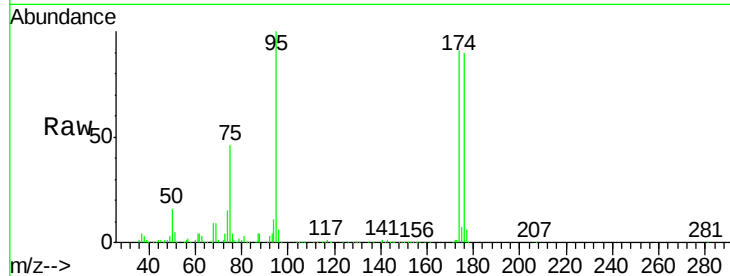
Delta R.T. 0.10 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

Tot Ion: 75 Resp: 221100

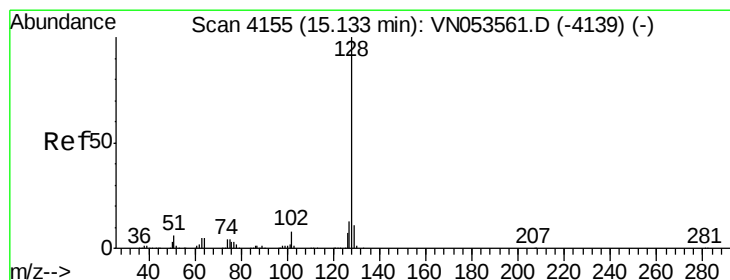
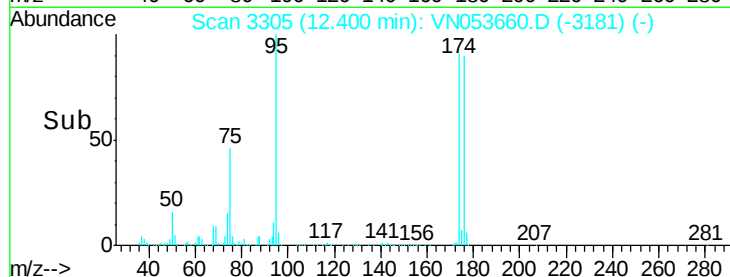
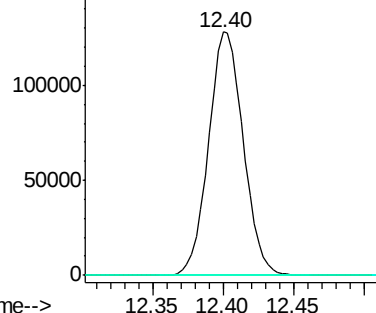
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053660.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN053660.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN053660.D (-3305) (-)



#95

Naphthalene

Concen: 1.744 ug/l

RT: 15.14 min Scan# 4157

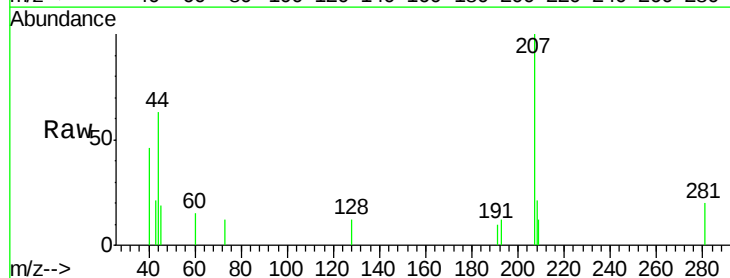
Delta R.T. 0.01 min

Lab File: VN053660.D

Acq: 7 Feb 2019 17:13

Tgt Ion: 128 Resp: 151

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): VN053660.D (-4157) (-)

Ion 127.00 (126.70 to 127.70): VN053660.D (-4157) (-)

Ion 129.00 (128.70 to 129.70): VN053660.D (-4157) (-)

