

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051223.D
 Acq On : 15 Sep 2018 15:30
 Operator : MD\SY
 Sample : PB112879ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 02:15:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	442737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	690568	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	550963	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	162557	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	238024	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
35) Dibromofluoromethane	7.59	113	252206	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	10.09	98	878492	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	
62) 4-Bromofluorobenzene	12.40	95	225929	34.69	ug/l	0.00
Spiked Amount			Recovery	=	69.38%	

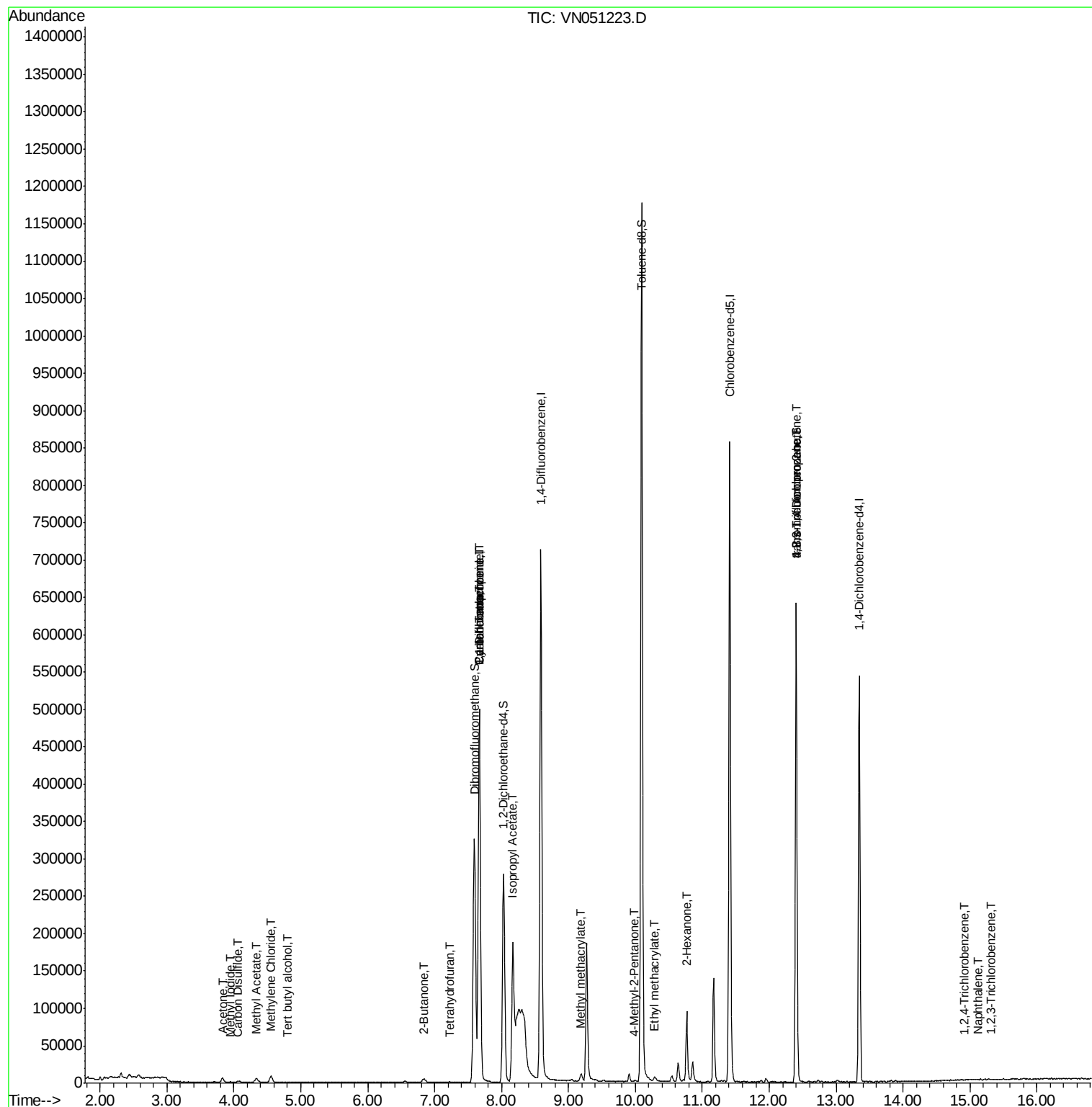
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1991	Below Cal		99
5) Bromomethane	2.57	94	2325	Below Cal	#	74
10) Methyl Iodide	3.95	142	317	5.69	ug/l #	67
11) Tert butyl alcohol	4.80	59	315	0.84	ug/l #	73
16) Acetone	3.83	43	9080	1.65	ug/l	98
17) Carbon Disulfide	4.05	76	1804	0.24	ug/l #	76
18) Methyl Acetate	4.33	43	10435	2.64	ug/l	91
20) Methylene Chloride	4.55	84	6543	1.20	ug/l	90
25) 2-Butanone	6.85	43	5728	2.96	ug/l	99
29) Tetrahydrofuran	7.22	42	823	0.68	ug/l #	37
31) Cyclohexane	7.67	56	6591	0.59	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	27352	3.61	ug/l #	47
38) Carbon Tetrachloride	7.67	117	38526	5.16	ug/l #	17
43) Isopropyl Acetate	8.17	43	229355	29.60	ug/l #	84
48) Methyl methacrylate	9.18	41	6347	1.68	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	1396	0.33	ug/l	98
56) Ethyl methacrylate	10.28	69	103	2.47	ug/l #	1
59) 2-Hexanone	10.77	43	14949	5.14	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	104226	41.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	104226	121.77	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	109	4.02	ug/l #	87
95) Naphthalene	15.13	128	137	5.36	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	72	2.97	ug/l #	1

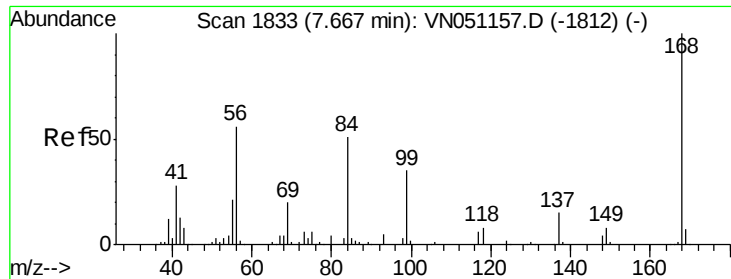
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091518\
Data File : VN051223.D
Acq On : 15 Sep 2018 15:30
Operator : MD\SY
Sample : PB112879ZHE#04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 17 02:15:22 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

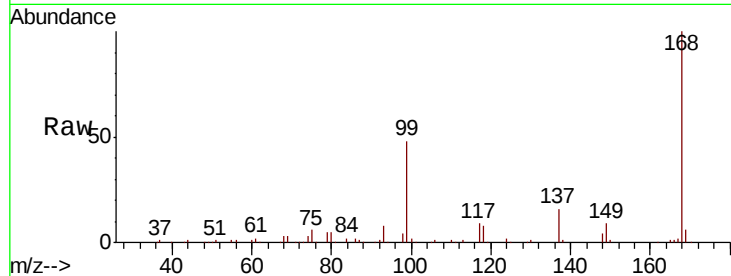
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 442737

Ion Ratio Lower Upper

168 100

99 47.5 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

200000

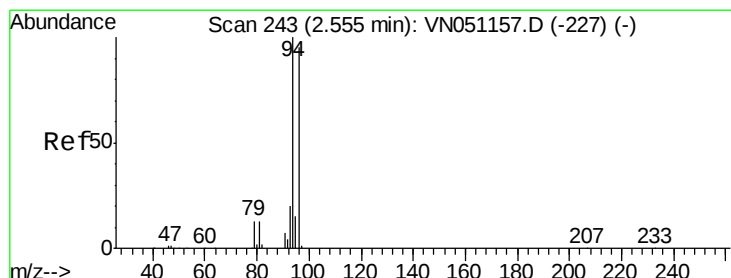
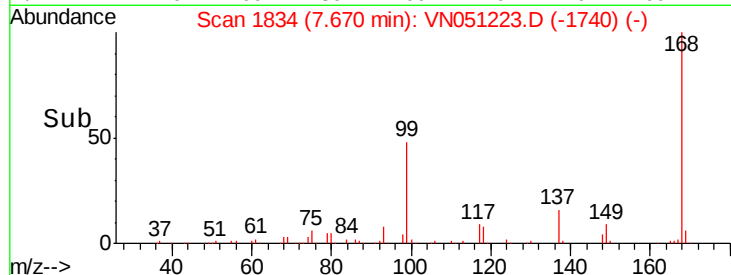
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051223.D

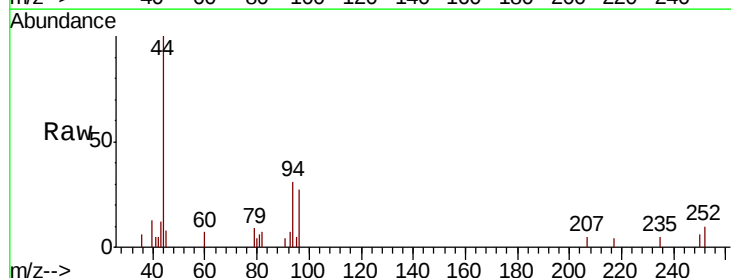
Acq: 15 Sep 2018 15:30

Tgt Ion: 94 Resp: 2325

Ion Ratio Lower Upper

94 100

96 70.1 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

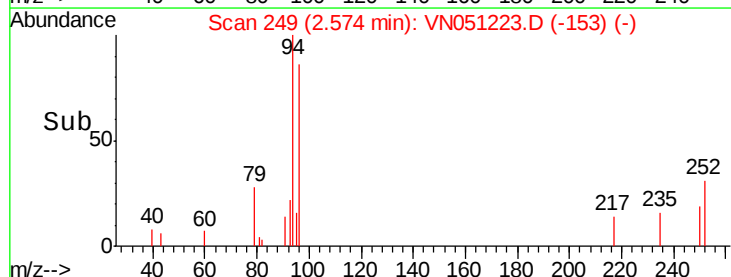
2.57

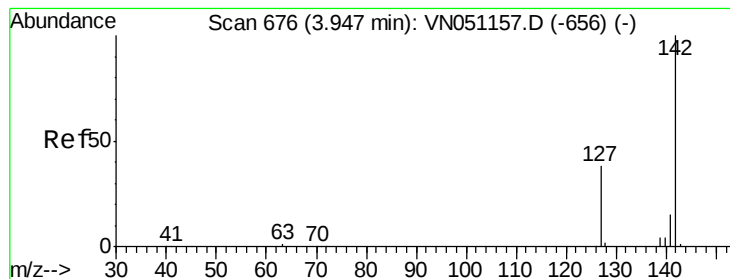
1000

500

0

Time-->





#10

Methvl Iodide

Concen: 5.69 ug/l

RT: 3.95 min Scan# 676

Delta R.T. -0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampled :

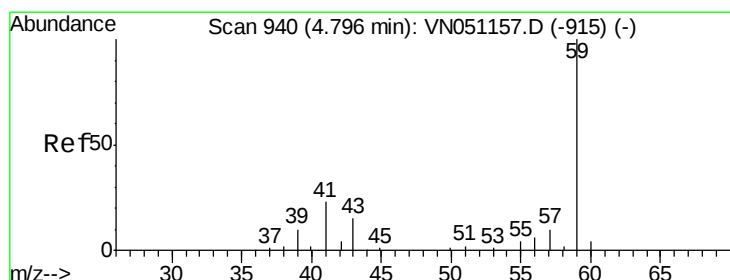
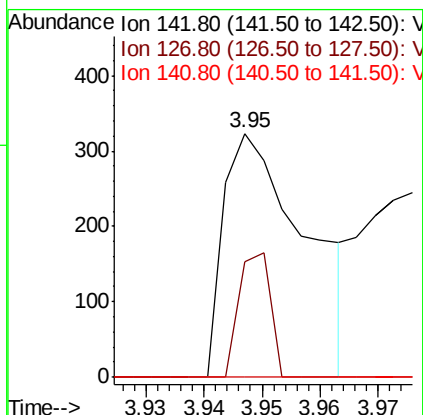
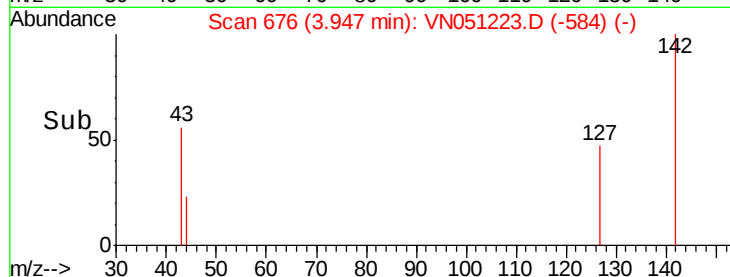
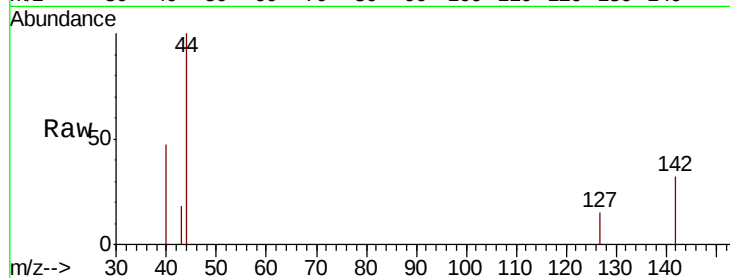
Tot Ion:142 Resp: 317

Ion Ratio Lower Upper

142 100

127 19.2 31.0 46.4#

141 0.0 11.3 16.9#



#11

Tert butyl alcohol

Concen: 0.84 ug/l

RT: 4.80 min Scan# 940

Delta R.T. 0.01 min

Lab File: VN051223.D

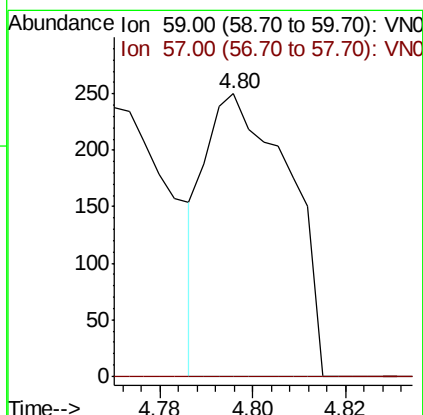
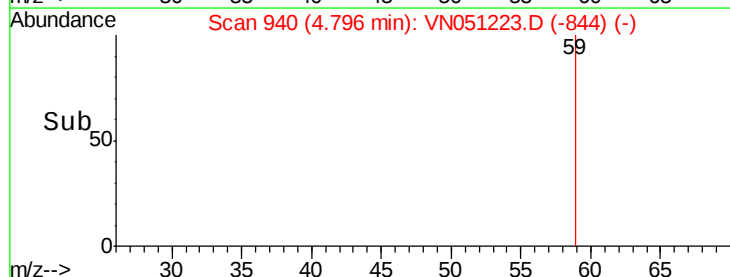
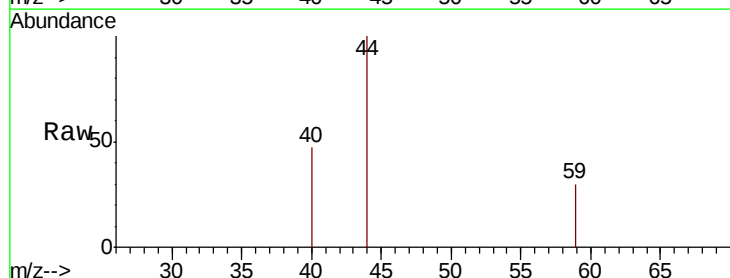
Acq: 15 Sep 2018 15:30

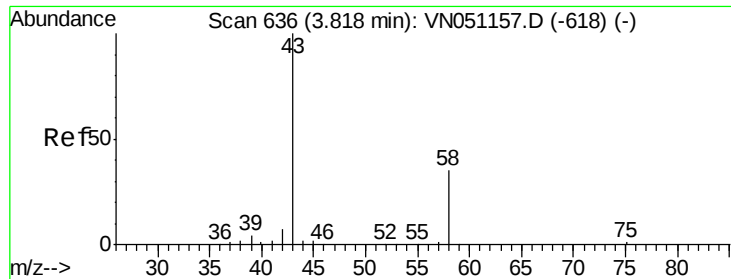
Tgt Ion: 59 Resp: 315

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#16

Acetone

Concen: 1.65 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

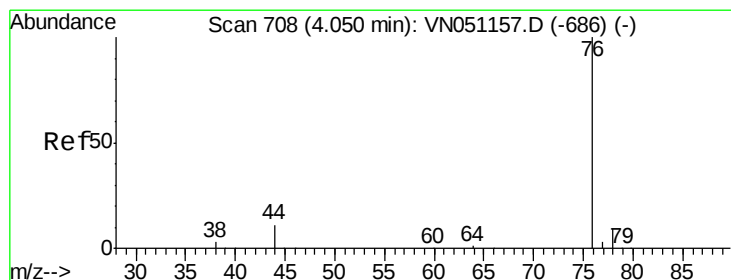
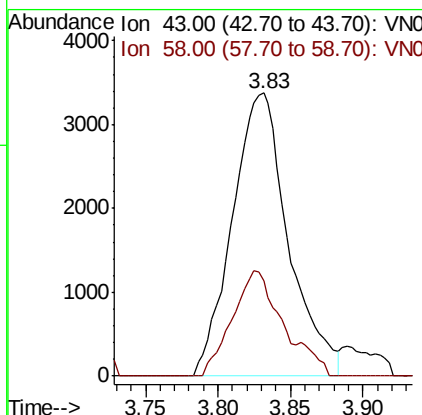
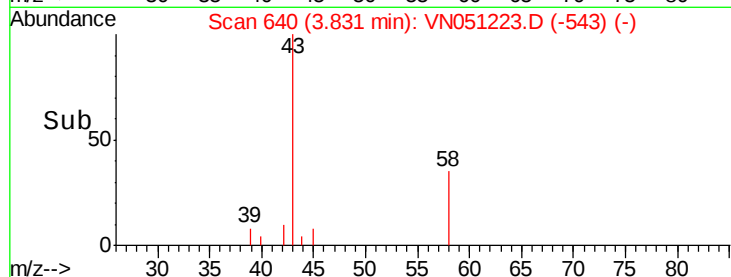
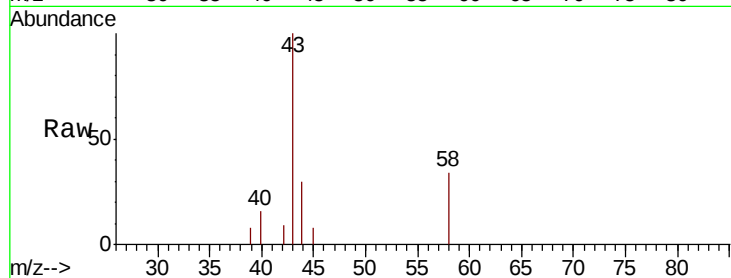
ClientSampled :

Tot Ion: 43 Resp: 9080

Ion Ratio Lower Upper

43 100

58 33.5 27.8 41.6



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN051223.D

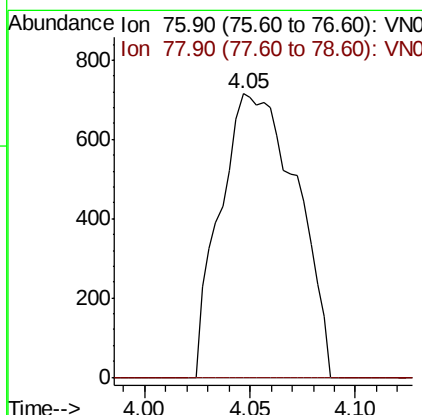
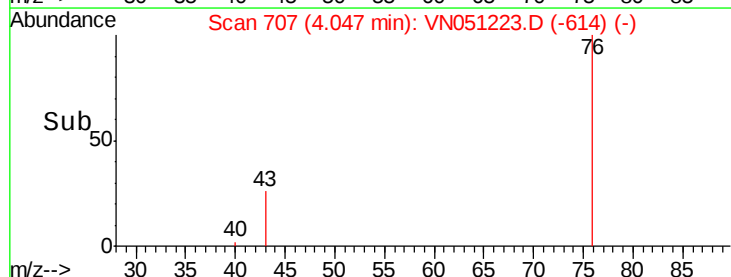
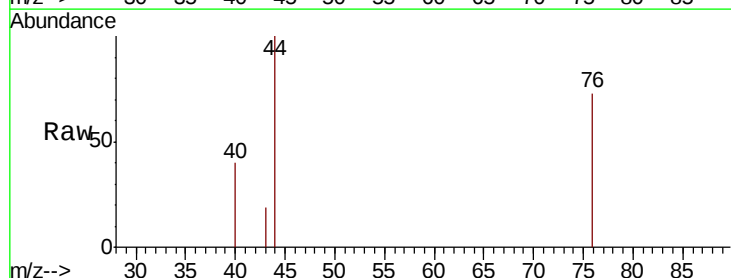
Acq: 15 Sep 2018 15:30

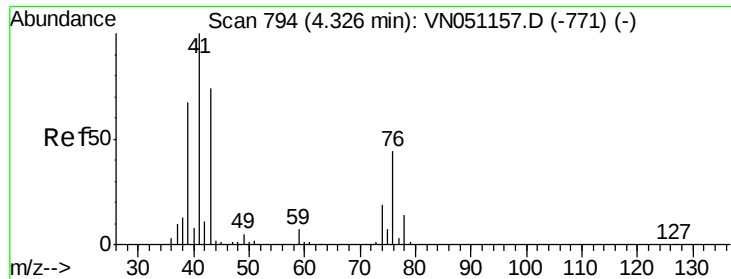
Tgt Ion: 76 Resp: 1804

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

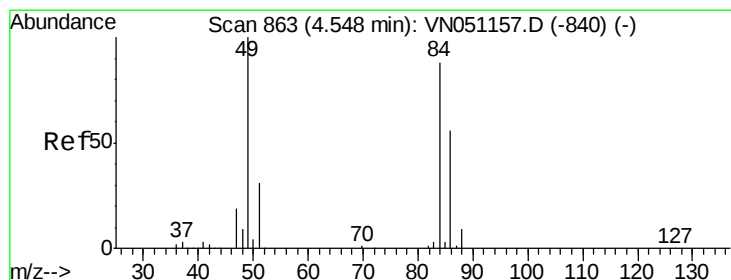
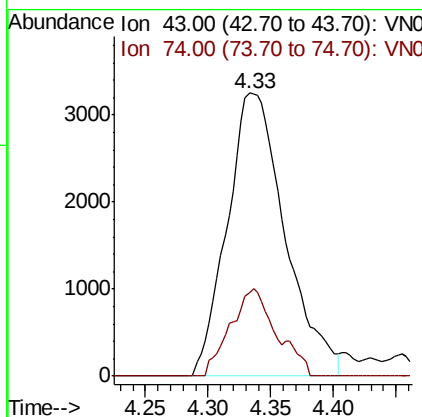
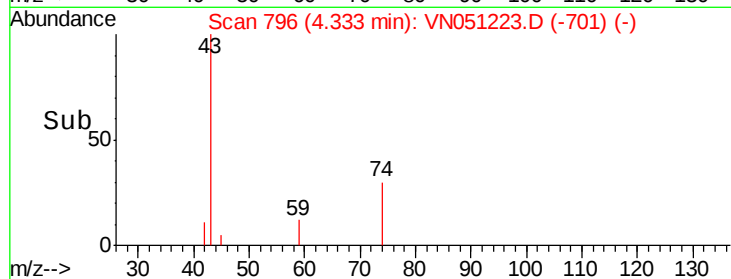
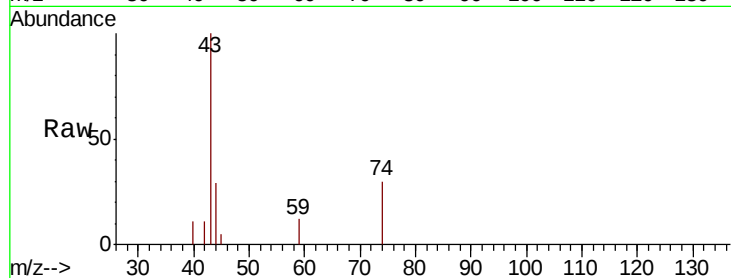




#18
Methyl Acetate
Concen: 2.64 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051223.D
Acq: 15 Sep 2018 15:30

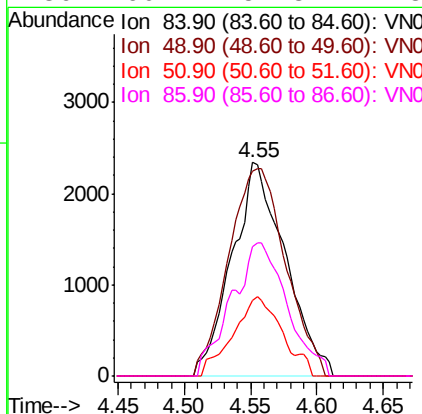
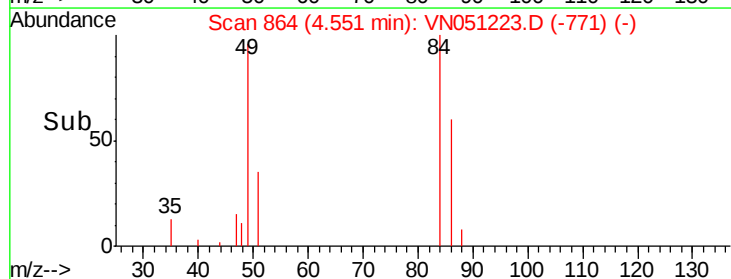
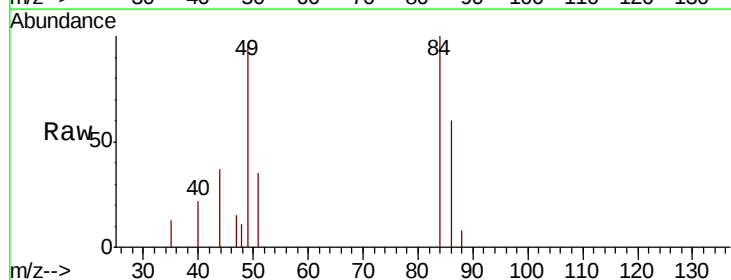
Instrument :
MSVOA_N
ClientSampled :

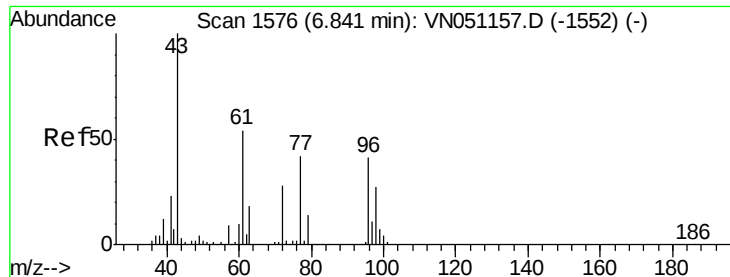
Tot Ion: 43 Resp: 10435
Ion Ratio Lower Upper
43 100
74 21.3 20.7 31.1



#20
Methylene Chloride
Concen: 1.20 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051223.D
Acq: 15 Sep 2018 15:30

Tgt Ion: 84 Resp: 6543
Ion Ratio Lower Upper
84 100
49 95.8 90.2 135.2
51 35.2 28.4 42.6
86 60.4 51.8 77.8





#25

2-Butanone

Concen: 2.96 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

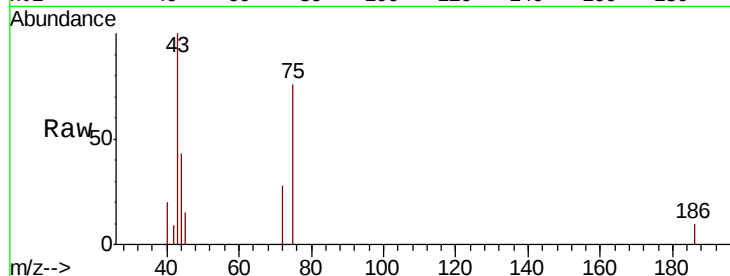
ClientSampled :

Tot Ion: 43 Resp: 5728

Ion Ratio Lower Upper

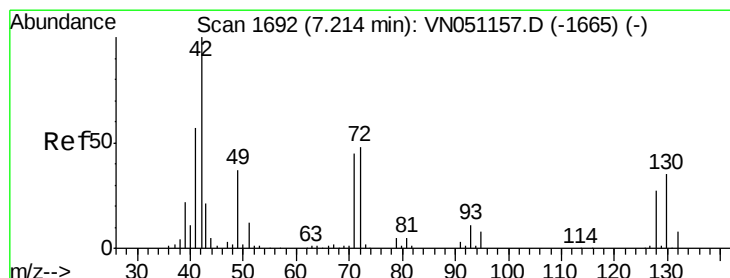
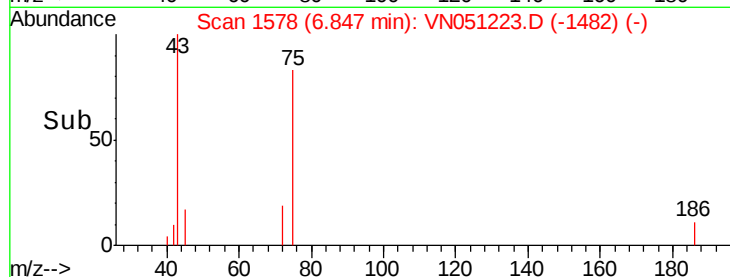
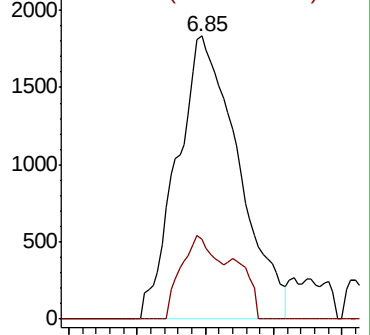
43 100

72 28.3 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

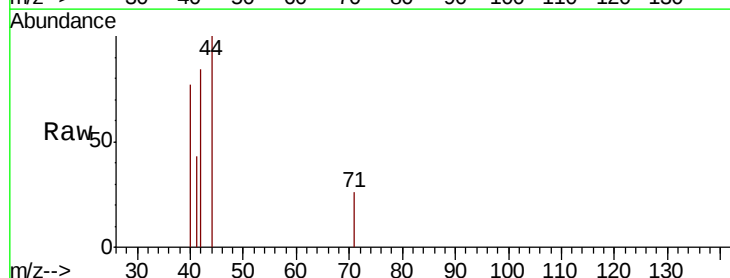
Tgt Ion: 42 Resp: 823

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

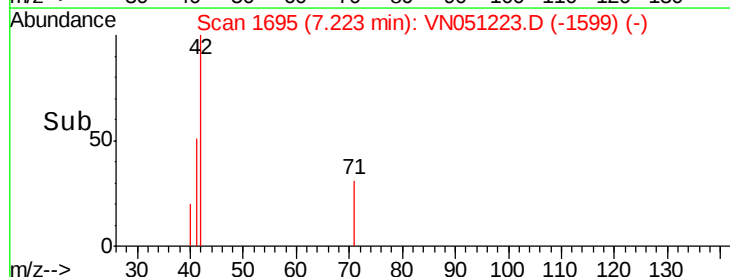
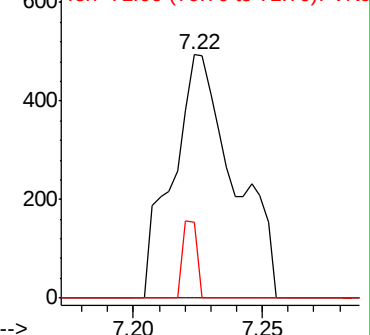
71 7.3 34.7 52.1#

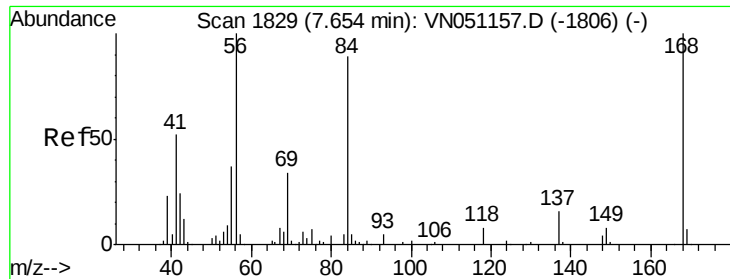


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

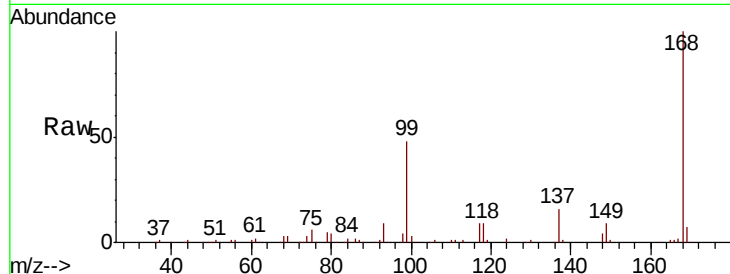




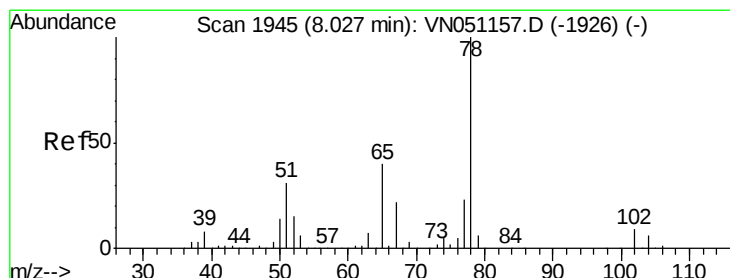
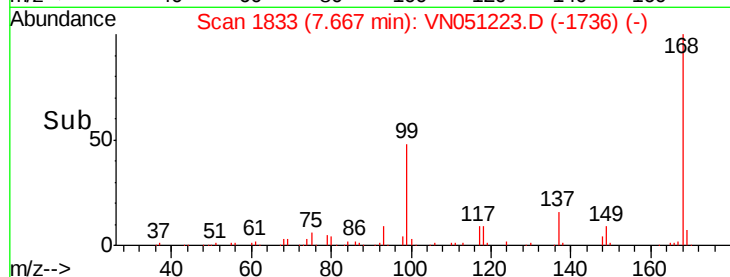
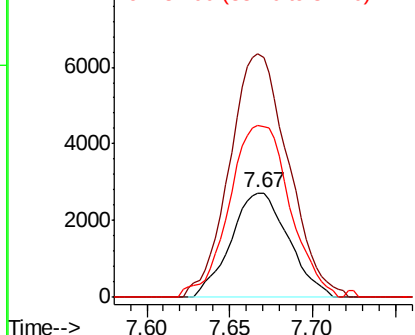
#31
Cyclohexane
Concen: 0.59 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051223.D
Acq: 15 Sep 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 6591
Ion Ratio Lower Upper
56 100
69 225.8 26.3 39.5#
84 165.3 69.4 104.0#

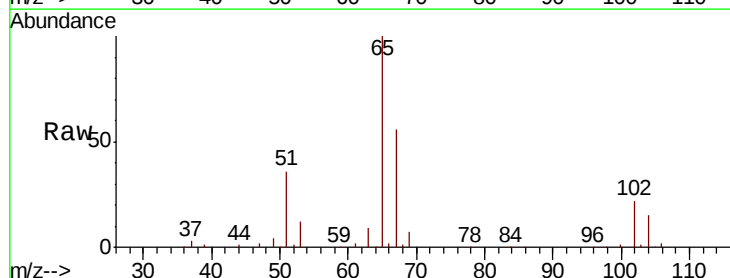


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

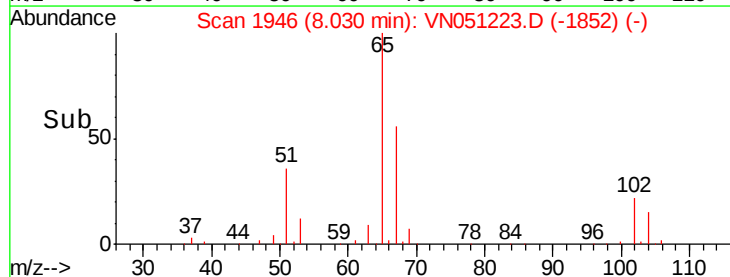
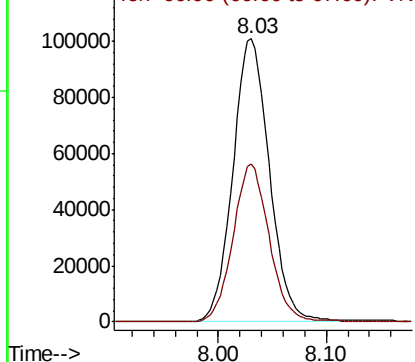


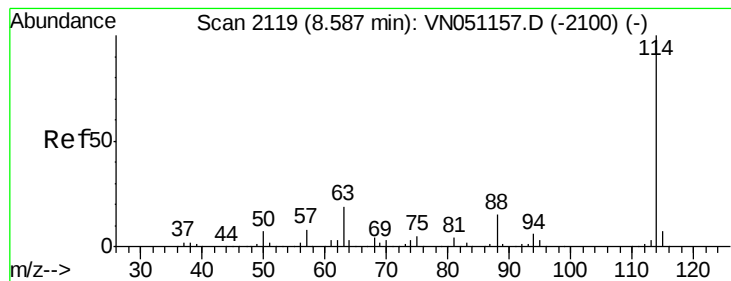
#33
1,2-Dichloroethane-d4
Concen: 48.31 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051223.D
Acq: 15 Sep 2018 15:30

Tgt Ion: 65 Resp: 238024
Ion Ratio Lower Upper
65 100
67 54.9 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

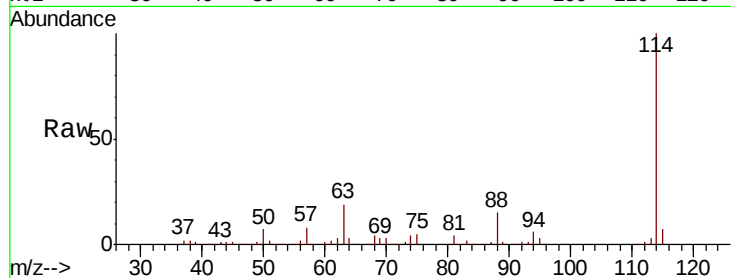
Tot Ion:114 Resp: 690568

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.8

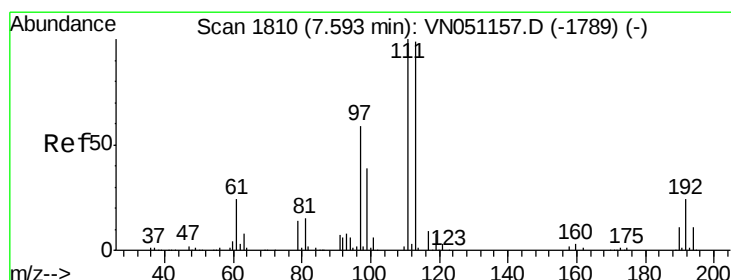
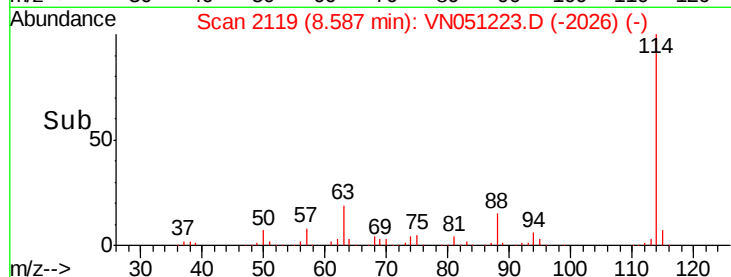
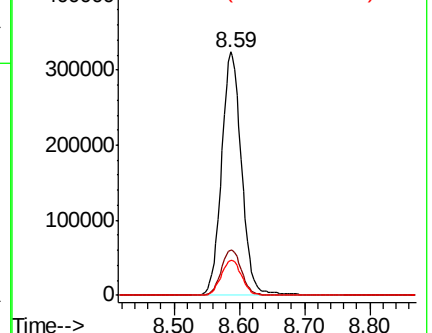
88 14.6 0.0 30.8



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: 48.60 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

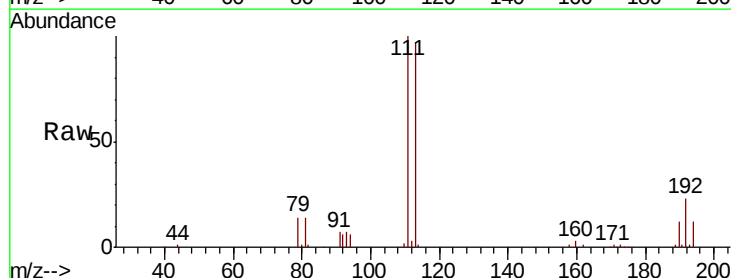
Tgt Ion:113 Resp: 252206

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.6

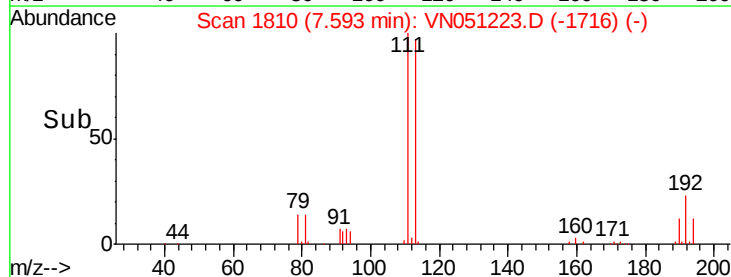
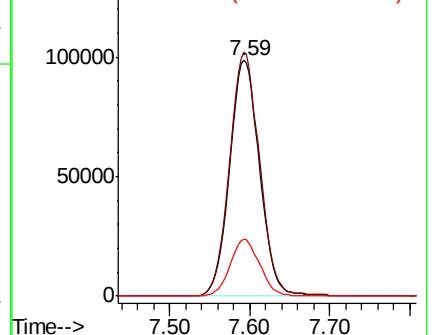
192 23.8 18.7 28.1

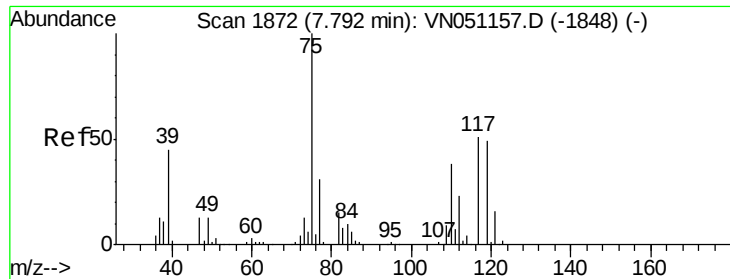


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

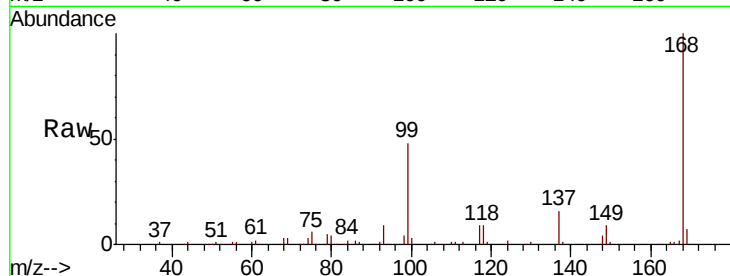




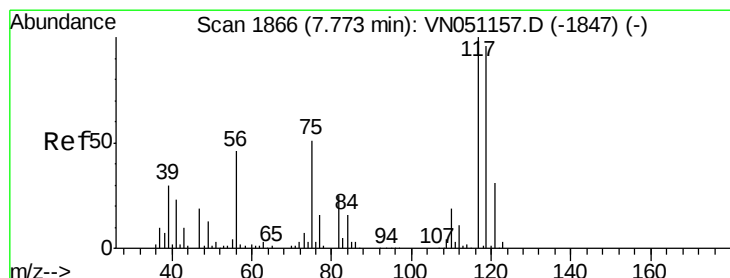
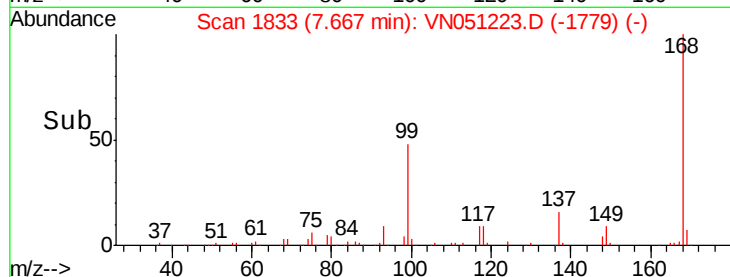
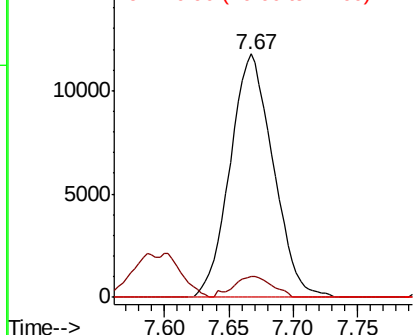
#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051223.D
 Acq: 15 Sep 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 27352
 Ion Ratio Lower Upper
 75 100
 110 7.7 18.6 55.8#
 77 0.0 25.2 37.8#

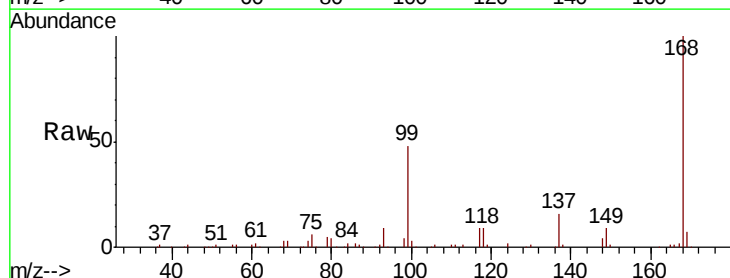


Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN051157.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN051157.D (-1848) (-)

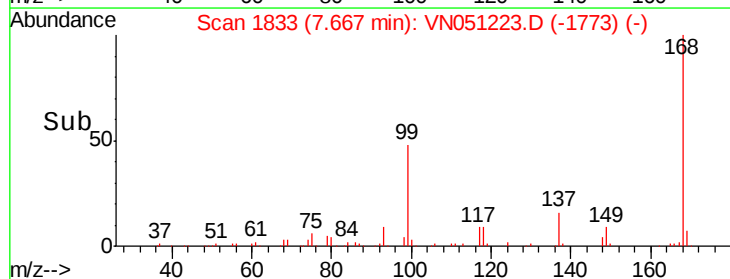
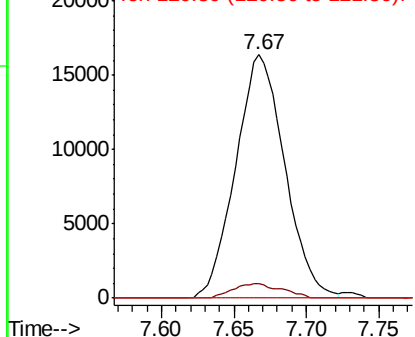


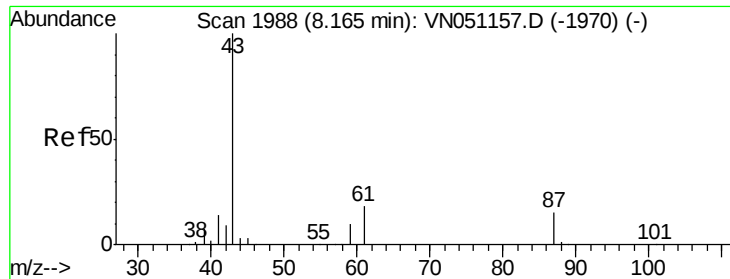
#38
 Carbon Tetrachloride
 Concen: 5.16 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051223.D
 Acq: 15 Sep 2018 15:30

Tgt Ion: 117 Resp: 38526
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.8 115.2#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN051157.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN051157.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN051157.D (-1847) (-)



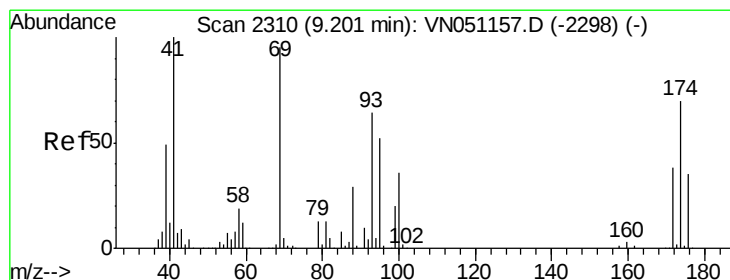
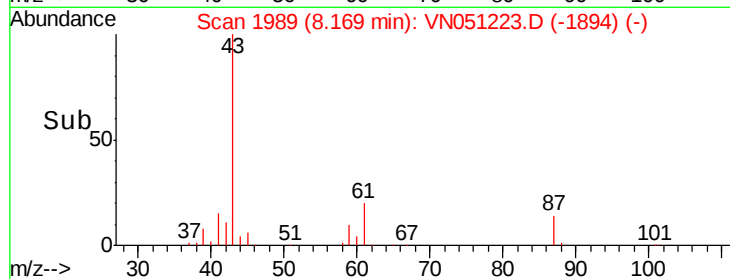
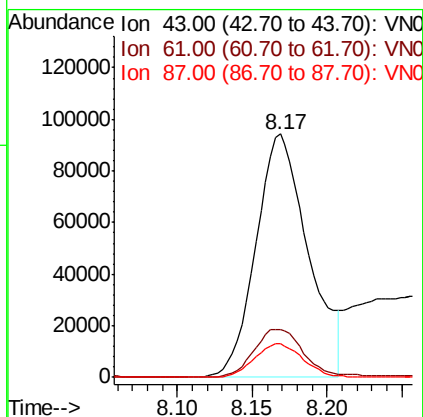
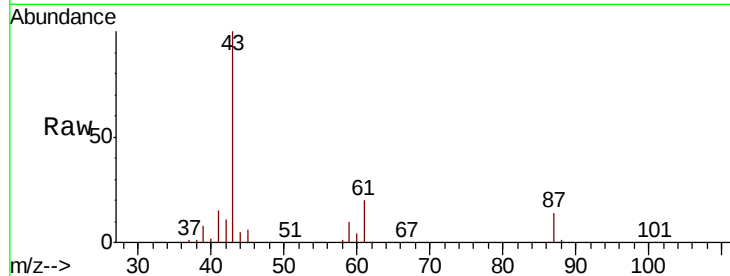


#43

Isopropyl Acetate
 Concen: 29.60 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.01 min
 Lab File: VN051223.D
 Acq: 15 Sep 2018 15:30

Instrument :
 MSVOA_N
 ClientSampled :

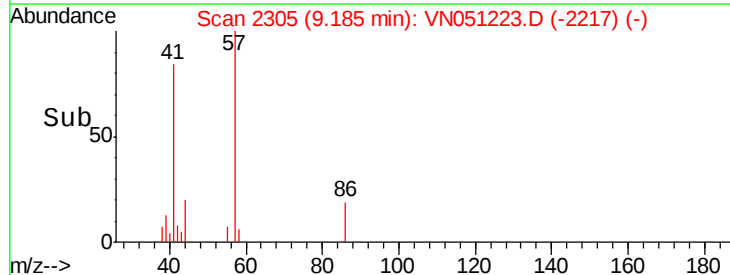
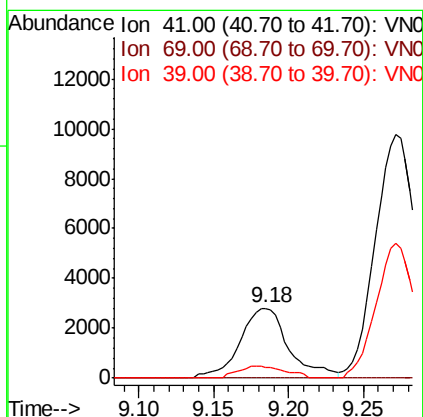
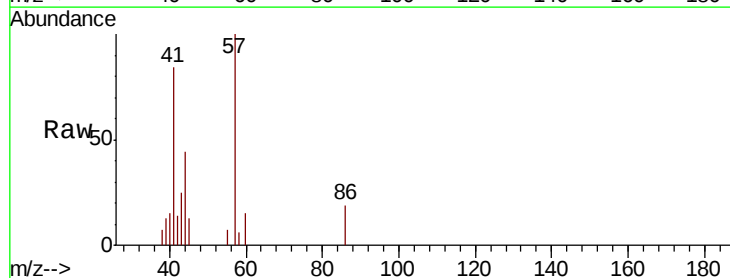
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.3	25.0	37.6#
87	12.9	11.8	17.8

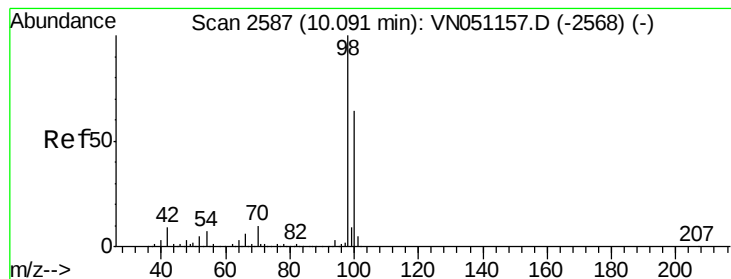


#48

Methyl methacrylate
 Concen: 1.68 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN051223.D
 Acq: 15 Sep 2018 15:30

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	77.7	116.5#
39	16.3	41.6	62.4#





#50

Toluene-d8

Concen: 44.61 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

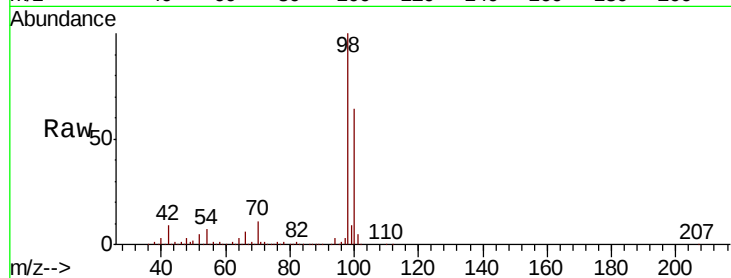
ClientSampled :

Tot Ion: 98 Resp: 878492

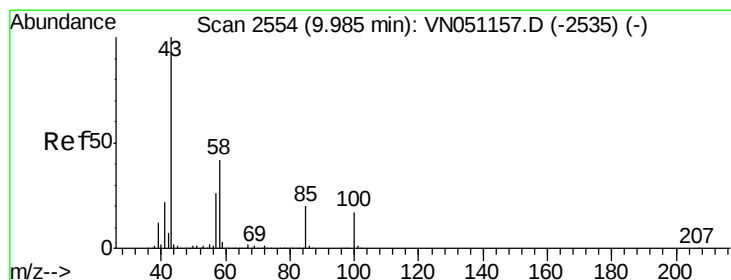
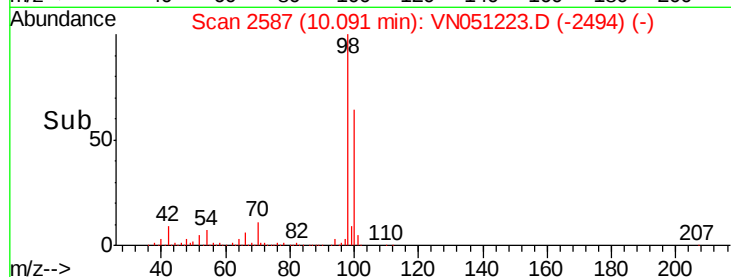
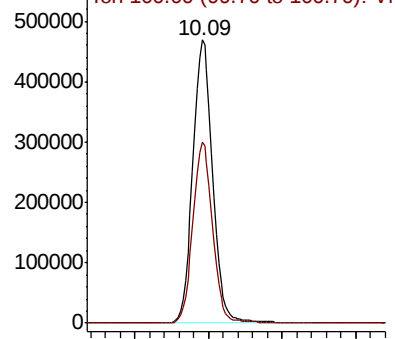
Ion Ratio Lower Upper

98 100

100 63.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN051157.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051223.D

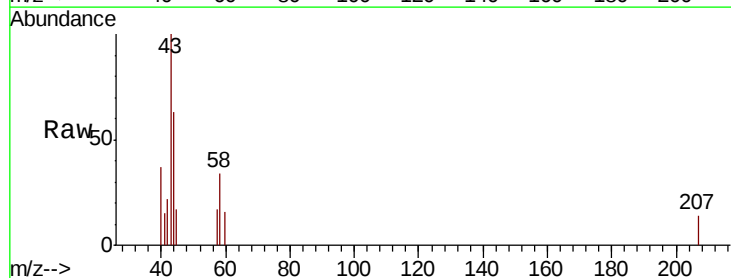
Acq: 15 Sep 2018 15:30

Tgt Ion: 43 Resp: 1396

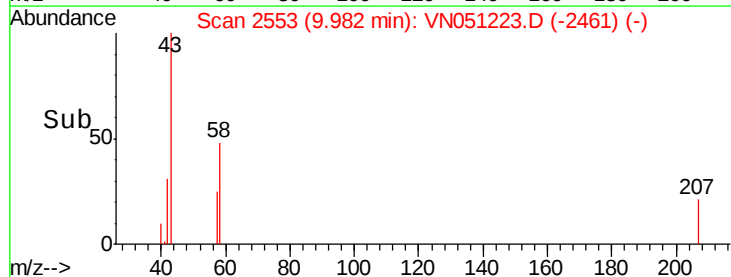
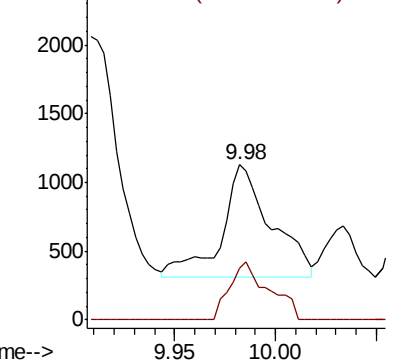
Ion Ratio Lower Upper

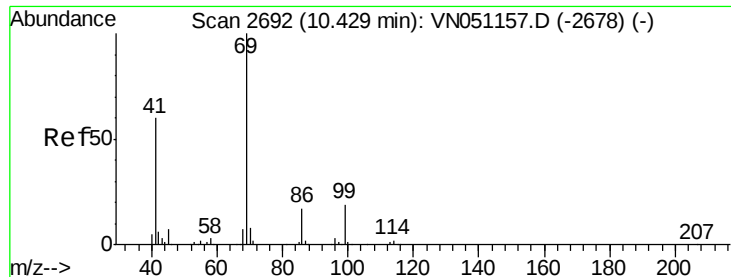
43 100

58 40.8 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2535) (-)





#56

Ethyl methacrylate

Concen: 2.47 ug/l

RT: 10.28 min Scan# 2647

Delta R.T. -0.14 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampled :

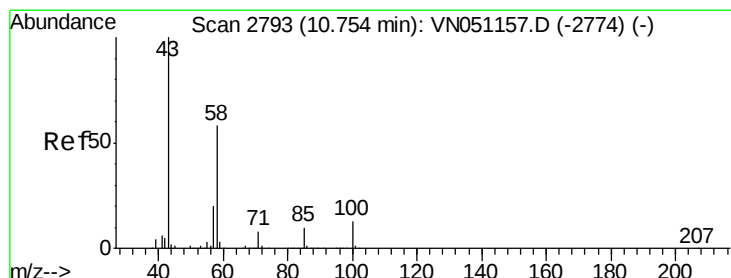
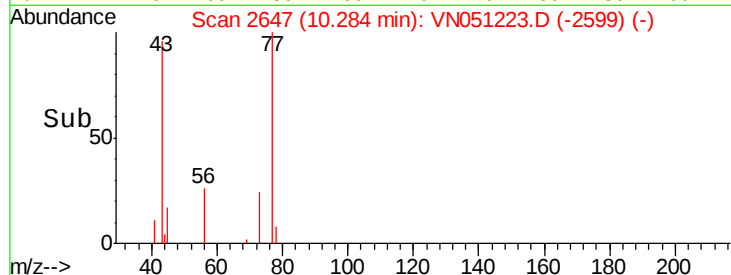
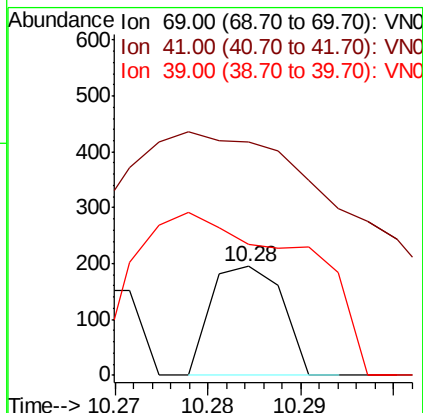
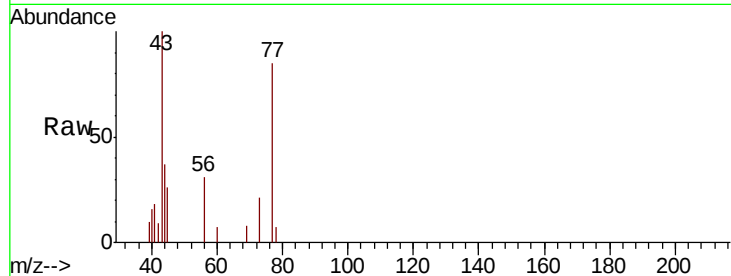
Tot Ion: 69 Resp: 103

Ion Ratio Lower Upper

69 100

41 812.6 47.8 71.8#

39 356.3 23.0 34.4#



#59

2-Hexanone

Concen: 5.14 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051223.D

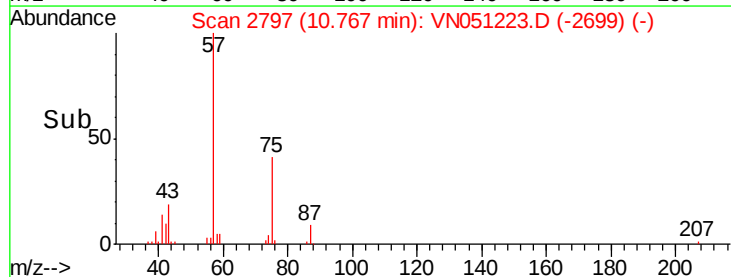
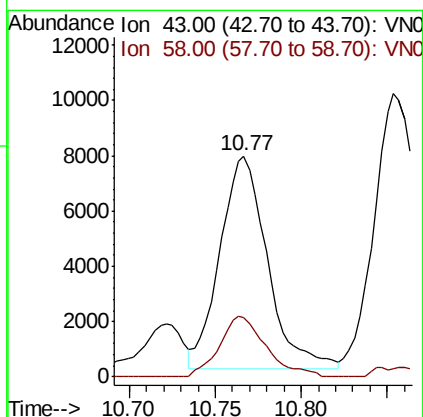
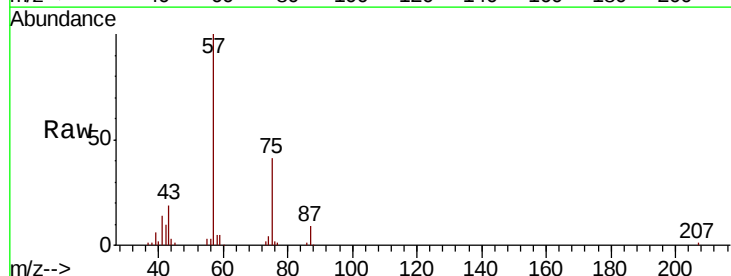
Acq: 15 Sep 2018 15:30

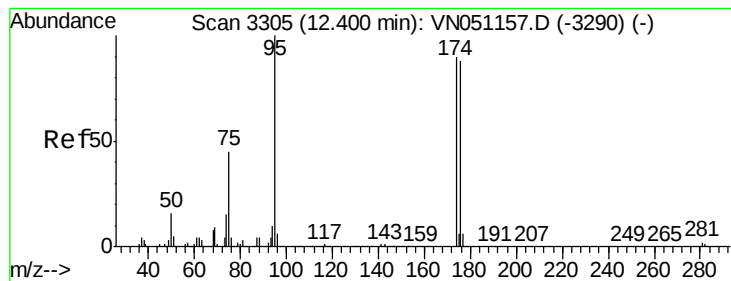
Tgt Ion: 43 Resp: 14949

Ion Ratio Lower Upper

43 100

58 27.9 29.3 88.0#





#62

4-Bromofluorobenzene

Concen: 34.69 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

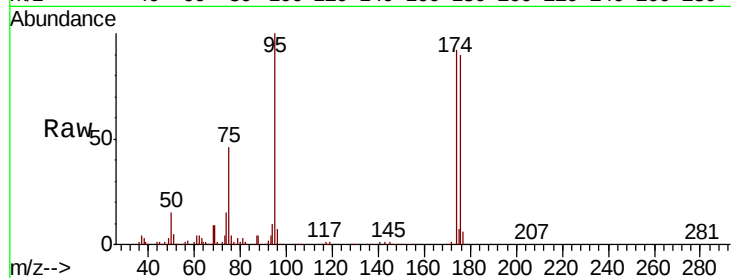
Tot Ion: 95 Resp: 225929

Ion Ratio Lower Upper

95 100

174 93.2 0.0 184.8

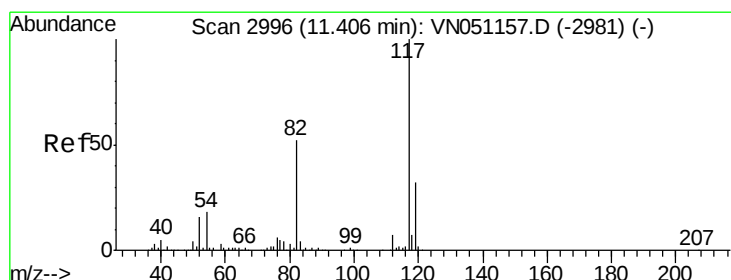
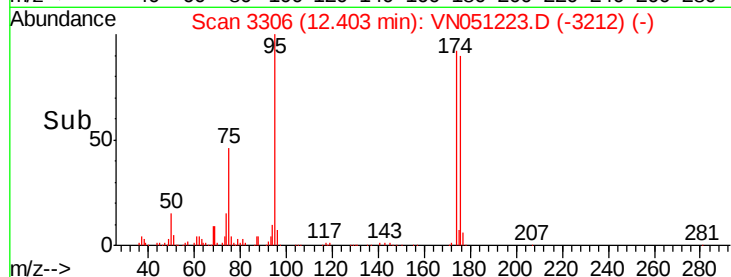
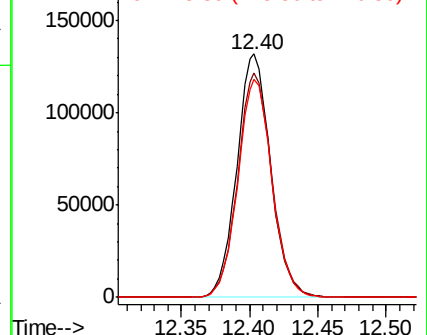
176 90.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

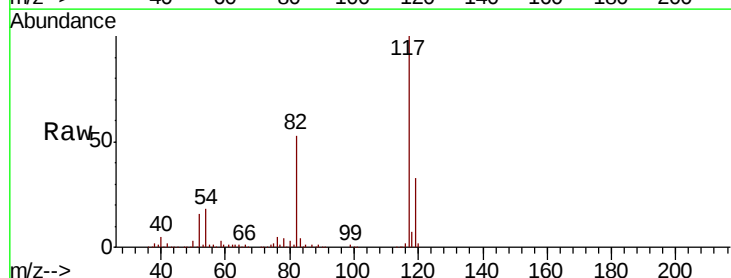
Tgt Ion: 117 Resp: 550963

Ion Ratio Lower Upper

117 100

82 53.0 41.8 62.6

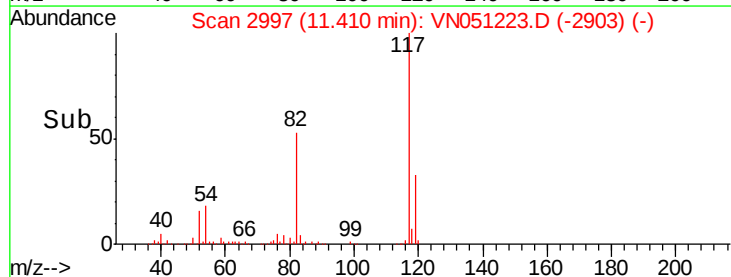
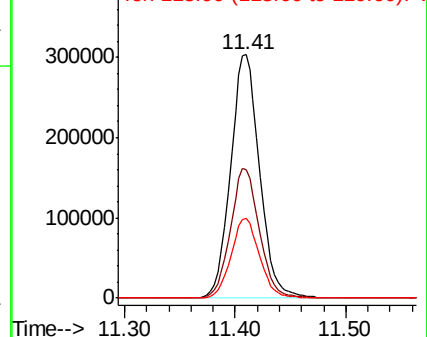
119 32.6 26.2 39.2

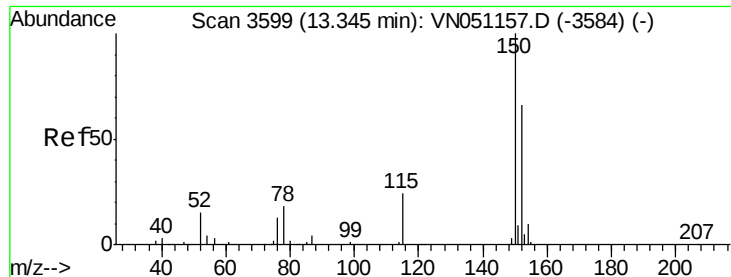


Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

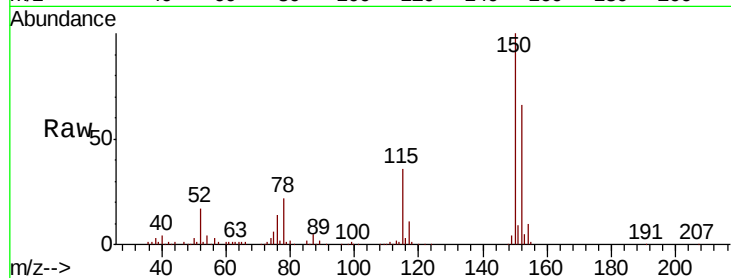
Tot Ion:152 Resp: 162557

Ion Ratio Lower Upper

152 100

115 54.8 28.2 84.7

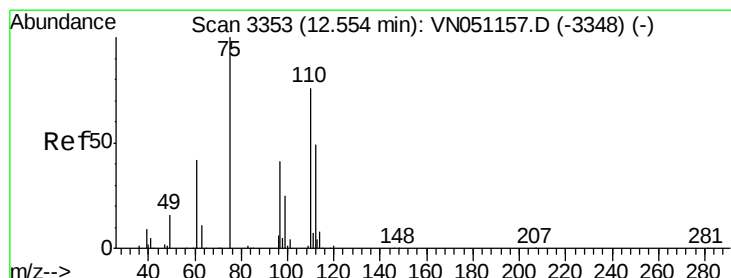
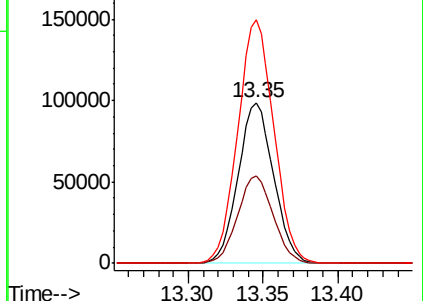
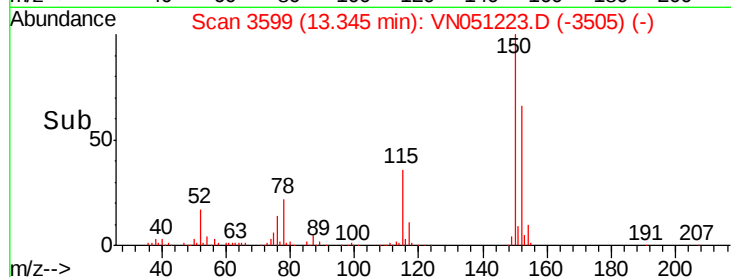
150 154.5 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 41.09 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051223.D

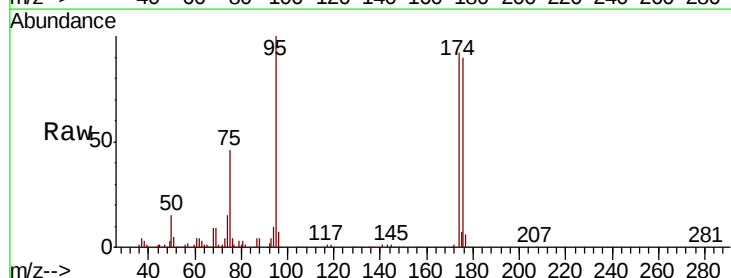
Acq: 15 Sep 2018 15:30

Tgt Ion: 75 Resp: 104226

Ion Ratio Lower Upper

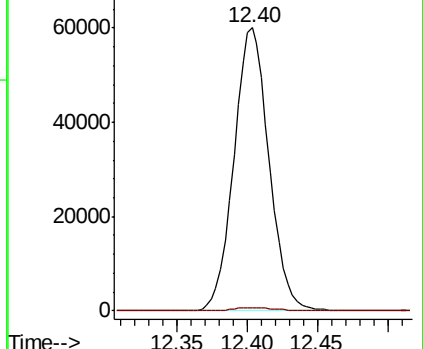
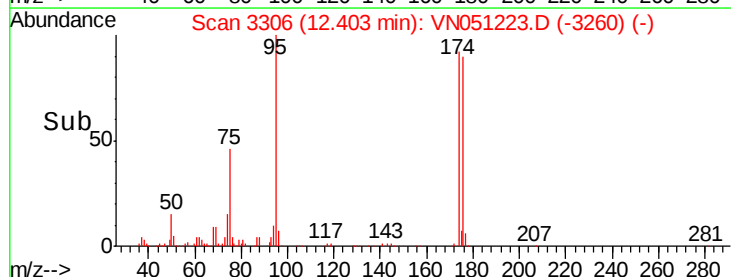
75 100

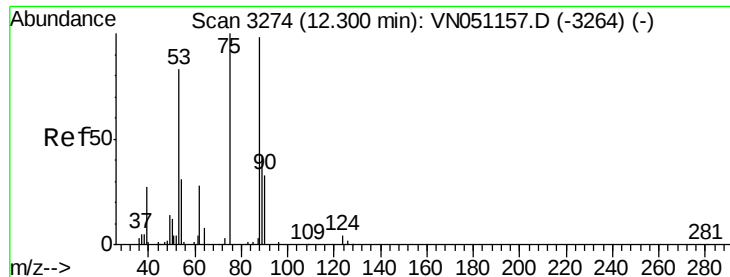
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 121.77 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampled :

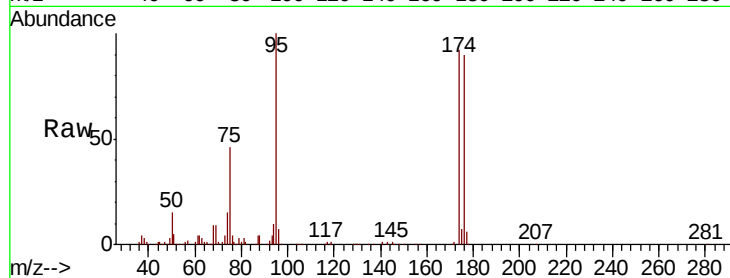
Tot Ion: 75 Resp: 104226

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

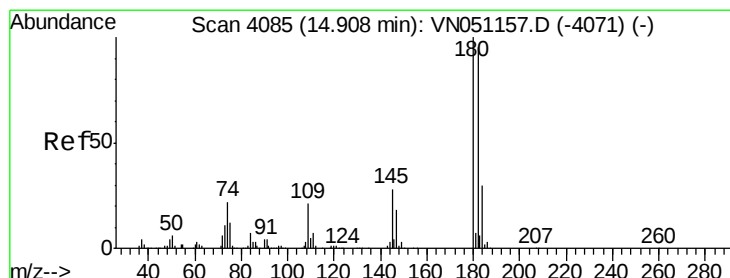
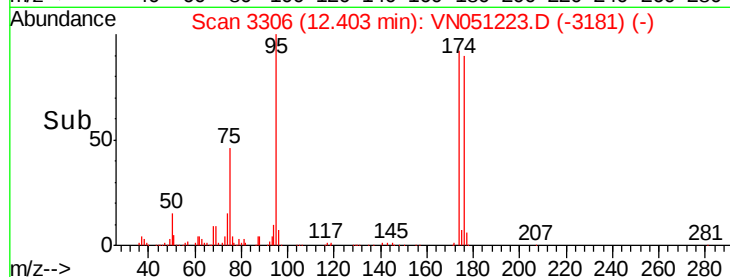
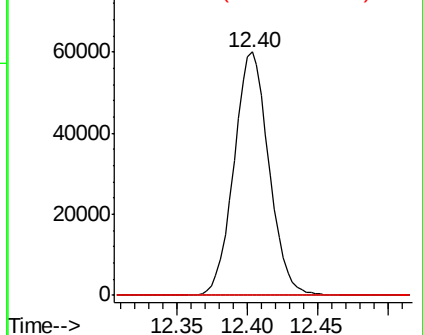
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.02 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

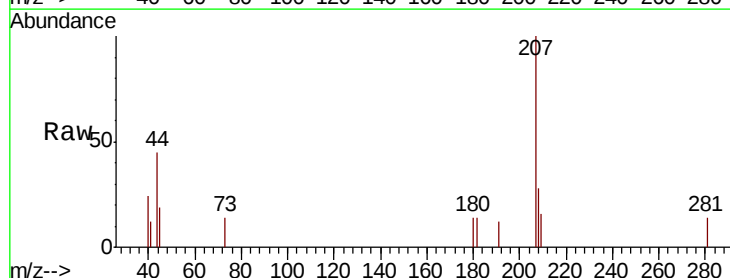
Tgt Ion: 180 Resp: 109

Ion Ratio Lower Upper

180 100

182 95.4 47.3 141.8

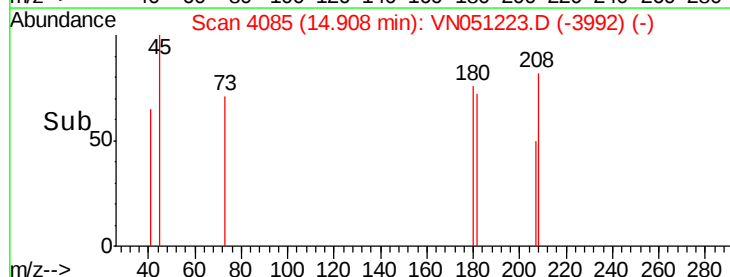
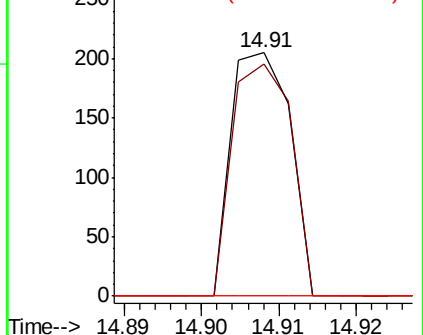
145 0.0 14.2 42.6#

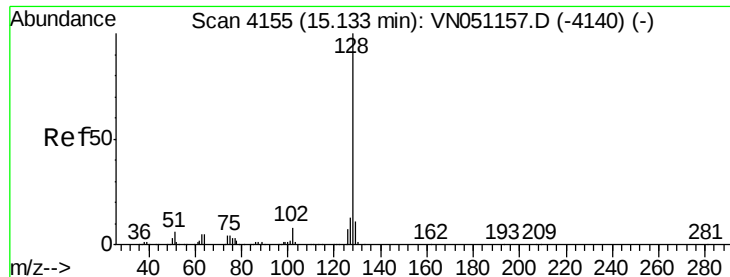


Abundance Ion 179.80 (179.50 to 180.50): VN051157.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN051157.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN051157.D (-4071) (-)





#95

Naphthalene

Concen: 5.36 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

Instrument :

MSVOA_N

ClientSampled :

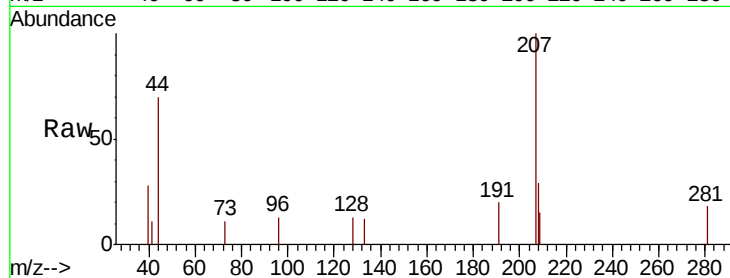
Tot Ion:128 Resp: 137

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

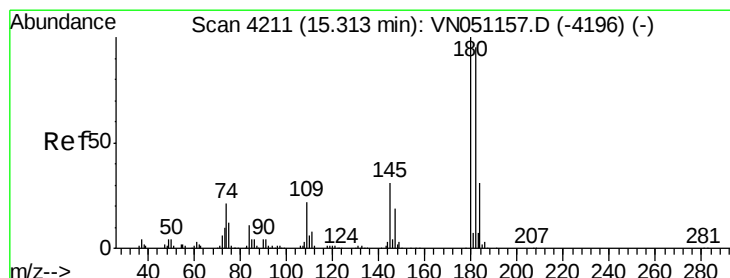
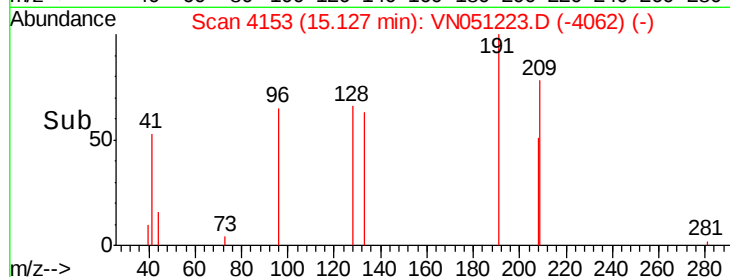
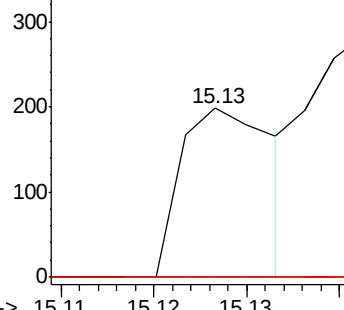
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.97 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN051223.D

Acq: 15 Sep 2018 15:30

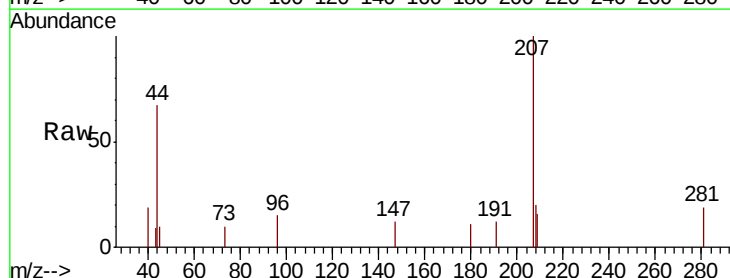
Tgt Ion:180 Resp: 72

Ion Ratio Lower Upper

180 100

182 209.7 47.8 143.3#

145 0.0 14.6 43.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

