

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073018\
 Data File : VN050177.D
 Acq On : 30 Jul 2018 10:52
 Operator : MD\SY
 Sample : VN0730WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0730WBL01

Quant Time: Jul 31 01:07:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	667755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1059887	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	867461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	288560	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	445601	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
35) Dibromofluoromethane	7.59	113	412360	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.09	98	1457136	45.80	ug/l	0.00
Spiked Amount			Recovery	=	91.60%	
62) 4-Bromofluorobenzene	12.40	95	375294	35.83	ug/l	0.00
Spiked Amount			Recovery	=	71.66%	

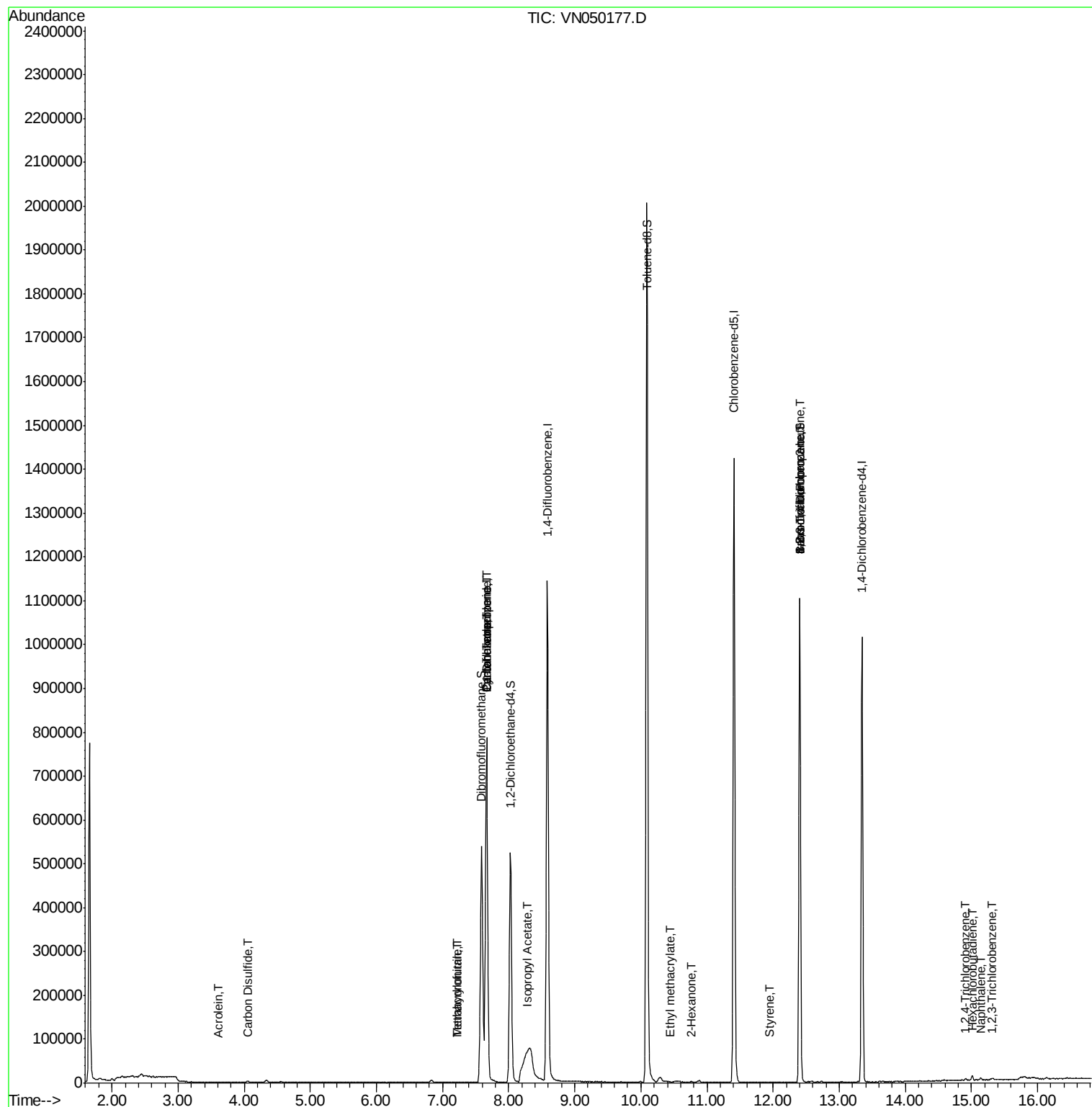
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	217	Below Cal	#	3
13) Acrolein	3.62	56	187	0.34	ug/l	15
16) Acetone	3.81	43	536	Below Cal	#	42
17) Carbon Disulfide	4.05	76	5428	0.23	ug/l	96
18) Methyl Acetate	4.33	43	12182	Below Cal		93
20) Methylene Chloride	4.56	84	1183	Below Cal	#	82
29) Tetrahydrofuran	7.22	42	516	0.22	ug/l	54
31) Cyclohexane	7.67	56	12325	0.89	ug/l	1
36) 1,1-Dichloropropene	7.67	75	47404	3.97	ug/l	49
38) Carbon Tetrachloride	7.66	117	60392	4.77	ug/l	16
41) Methacrylonitrile	7.21	41	442	2.84	ug/l	28
43) Isopropyl Acetate	8.27	43	106881	5.81	ug/l	62
56) Ethyl methacrylate	10.44	69	105	2.04	ug/l	26
59) 2-Hexanone	10.75	43	1173	5.37	ug/l	86
70) Styrene	11.96	104	68	0.93	ug/l	1
71) Bromoform	12.40	173	3183	0.52	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	138	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	181170	33.78	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181170	107.16	ug/l	13
93) 1,2,4-Trichlorobenzene	14.91	180	1238	3.29	ug/l	86
94) Hexachlorobutadiene	15.01	225	2657	0.83	ug/l	94
95) Naphthalene	15.14	128	4067	4.70	ug/l	85
96) 1,2,3-Trichlorobenzene	15.32	180	1490	2.47	ug/l	91

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

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Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

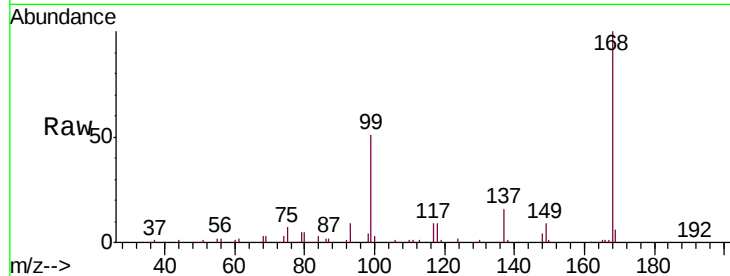
Instrument :
MSVOA_N
ClientSampleId :
VN0730WBL01

Tot Ion:168 Resp: 667755

Ion Ratio Lower Upper

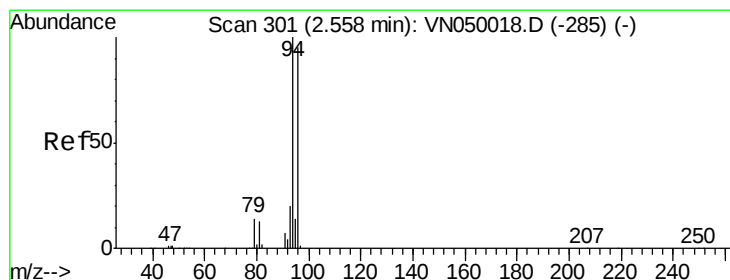
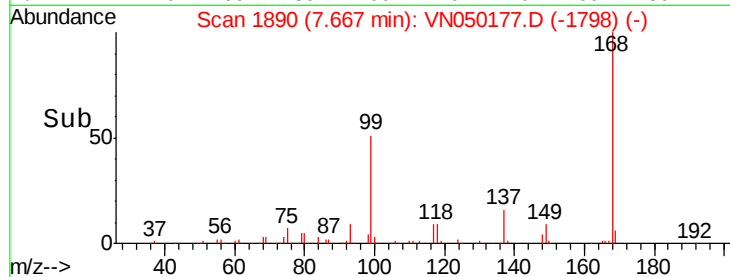
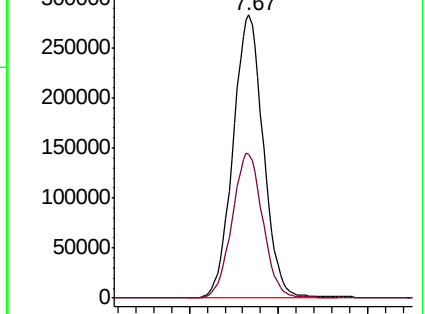
168 100

99 50.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 292

Delta R.T. -0.02 min

Lab File: VN050177.D

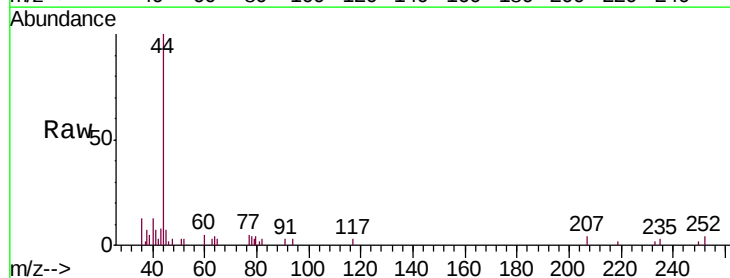
Acq: 30 Jul 2018 10:52

Tgt Ion: 94 Resp: 217

Ion Ratio Lower Upper

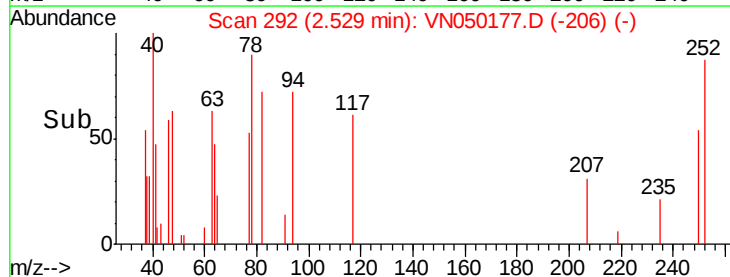
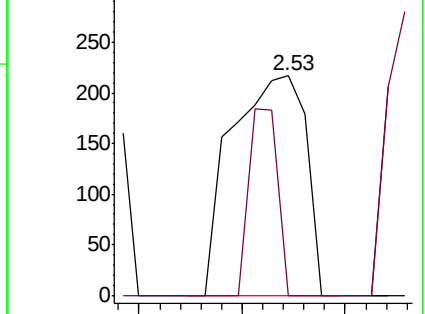
94 100

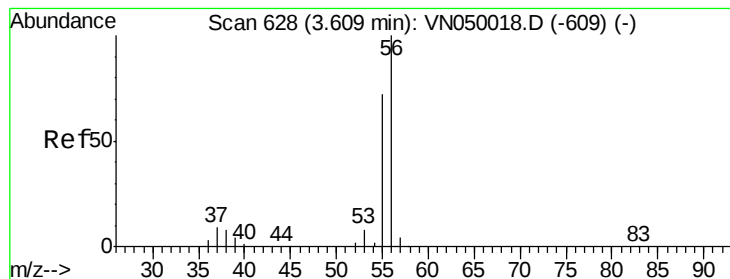
96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#13

Acrolein

Concen: 0.34 ua/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

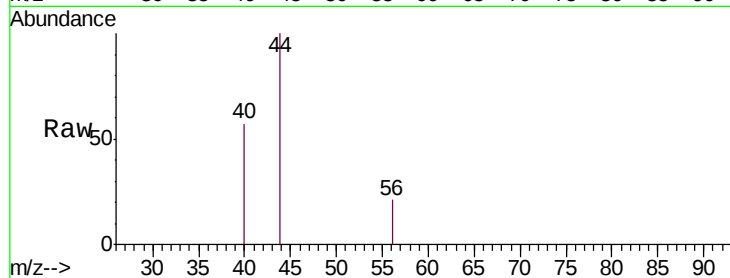
VN0730WBL01

Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

250

200

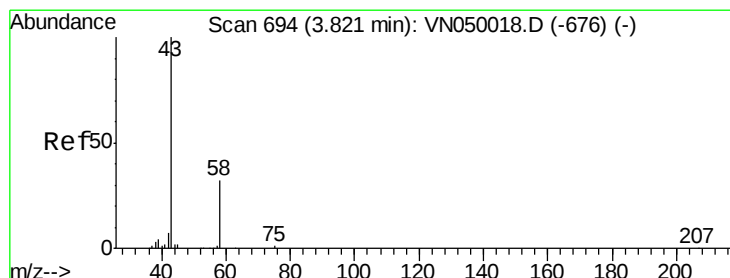
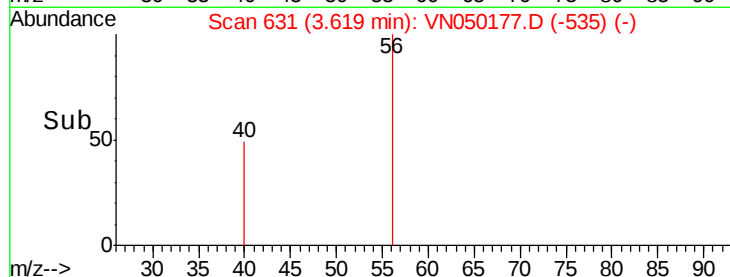
150

100

50

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.81 min Scan# 690

Delta R.T. -0.02 min

Lab File: VN050177.D

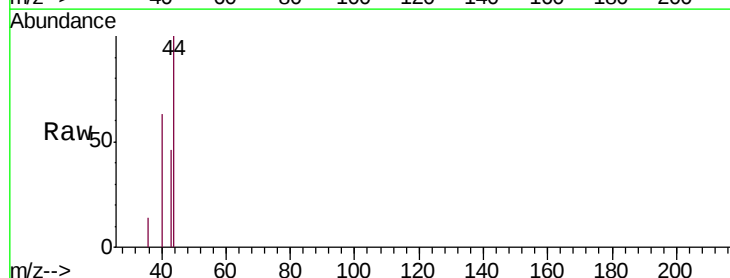
Acq: 30 Jul 2018 10:52

Tgt Ion: 43 Resp: 536

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

600

500

400

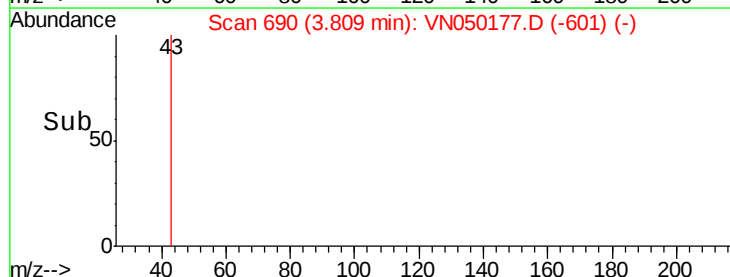
300

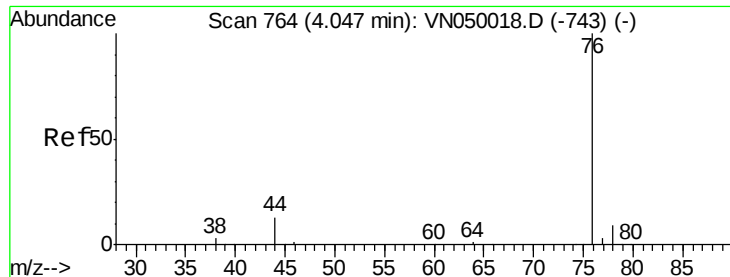
200

100

0

Time-->

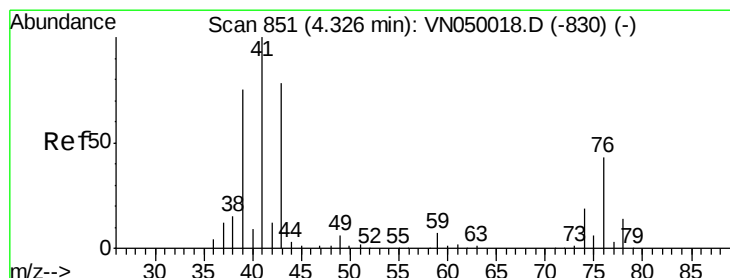
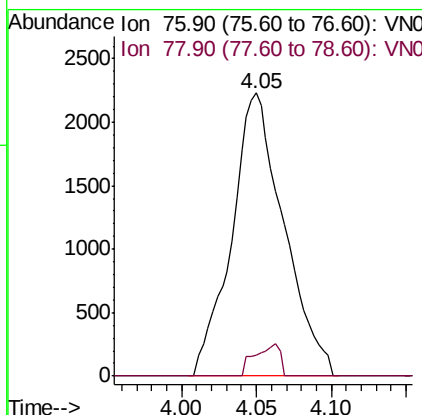
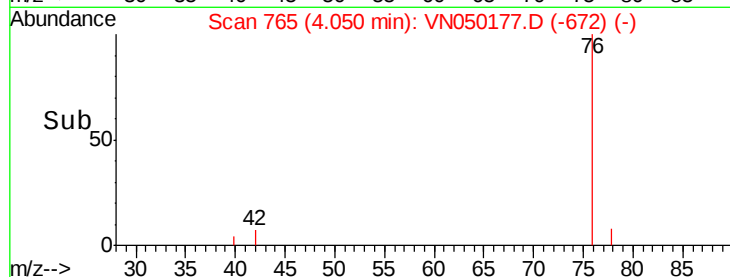
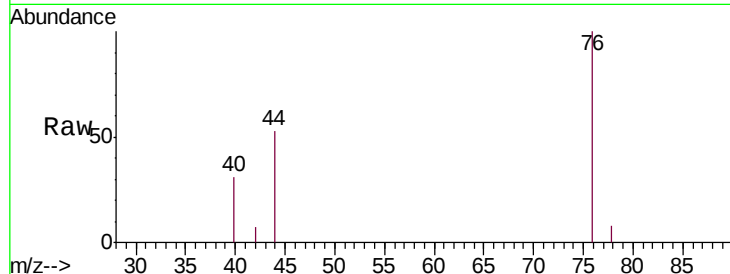




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

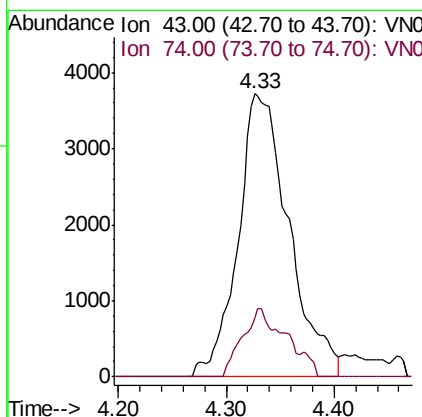
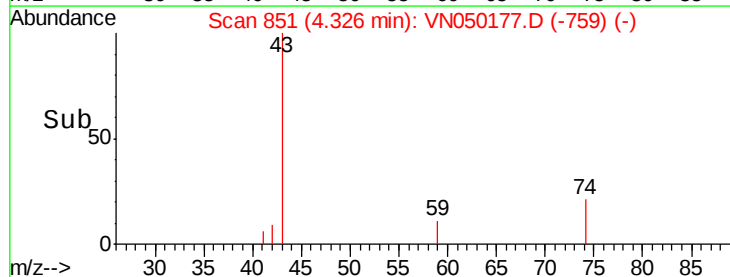
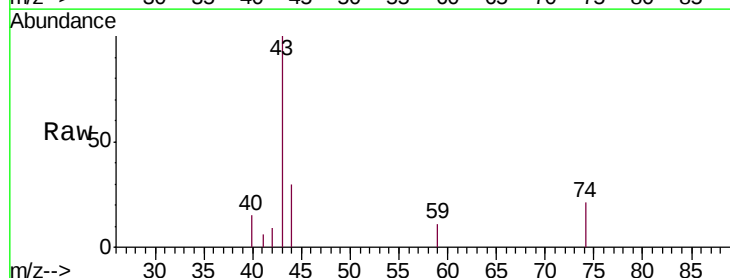
Instrument :
MSVOA_N
ClientSampleId :
VN0730WBL01

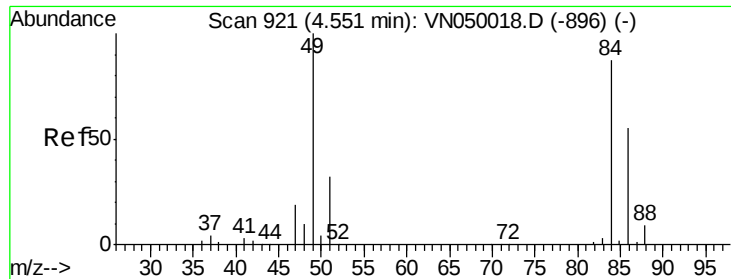
Tot Ion: 76 Resp: 5428
Ion Ratio Lower Upper
76 100
78 7.5 7.3 10.9



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 851
Delta R.T. -0.01 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion: 43 Resp: 12182
Ion Ratio Lower Upper
43 100
74 20.7 19.2 28.8

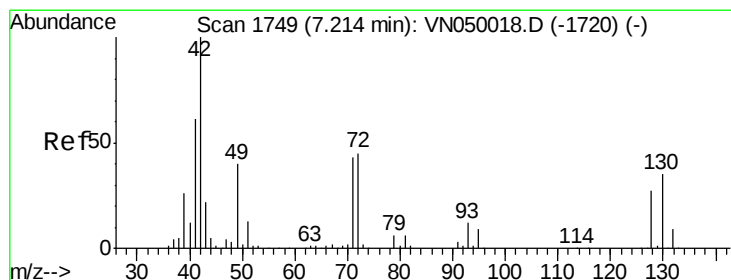
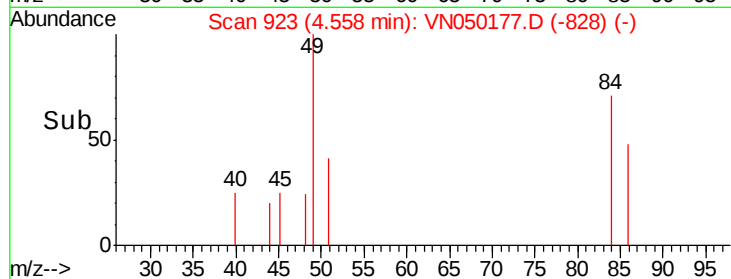
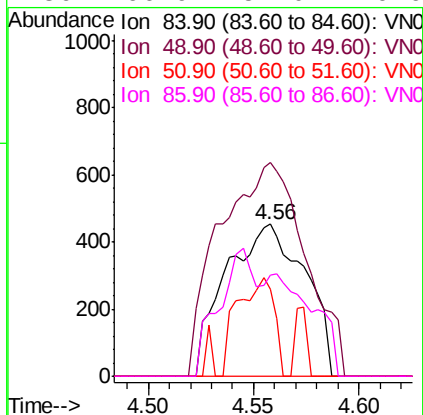
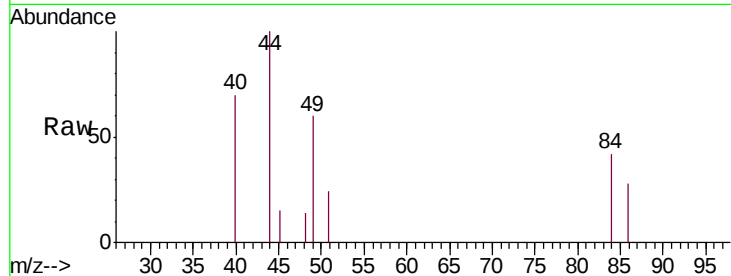




#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

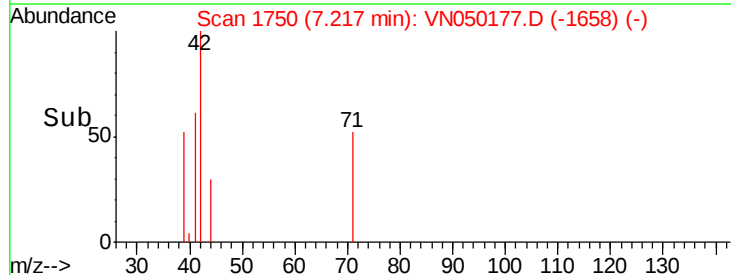
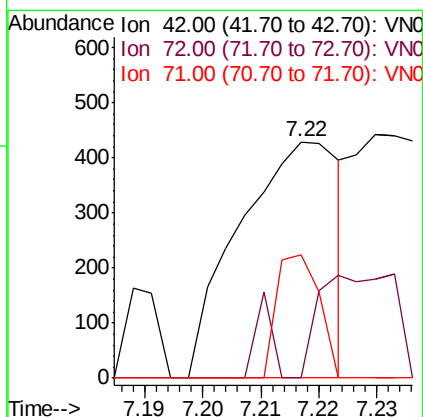
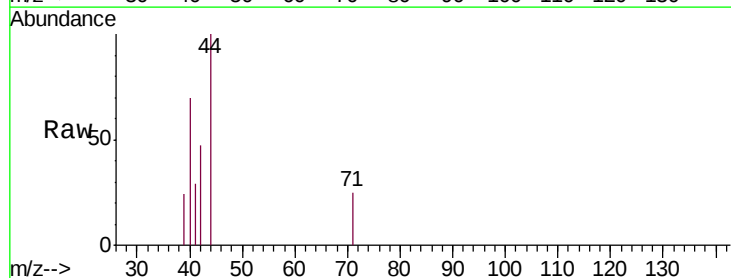
Instrument :
MSVOA_N
ClientSampled :
VN0730WBL01

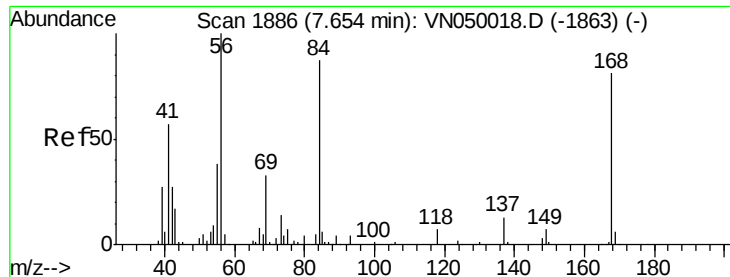
Tot Ion:	84	Resp:	1183
Ion	Ratio	Lower	Upper
84	100		
49	140.6	94.8	142.2
51	57.2	28.3	42.5#
86	66.9	51.0	76.6



#29
Tetrahydrofuran
Concen: 0.22 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion:	42	Resp:	516
Ion	Ratio	Lower	Upper
42	100		
72	5.8	35.9	53.9#
71	22.3	33.7	50.5#

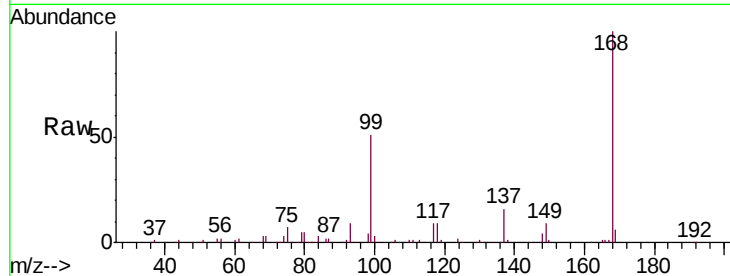




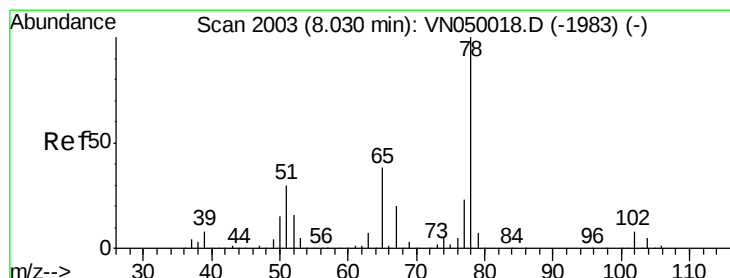
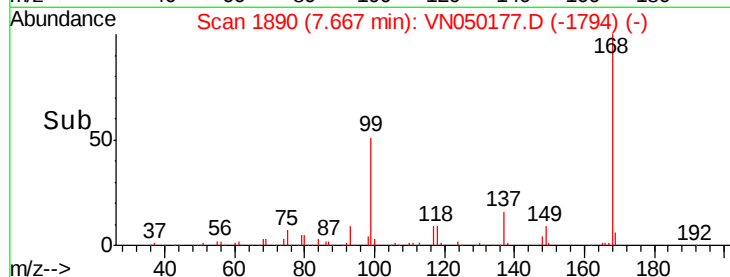
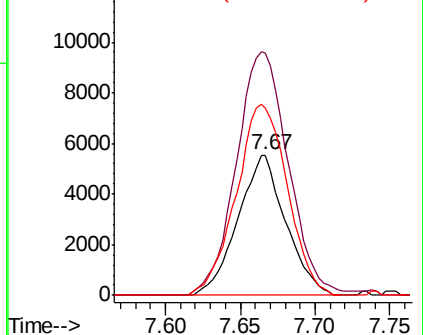
#31
Cyclohexane
Concen: 0.89 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN0730WBL01

Tot Ion: 56 Resp: 12325
Ion Ratio Lower Upper
56 100
69 172.8 26.2 39.4#
84 133.3 67.4 101.0#

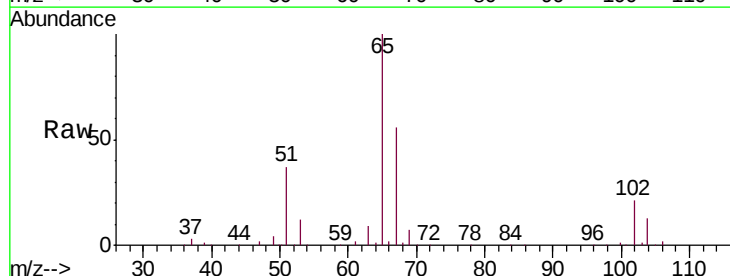


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

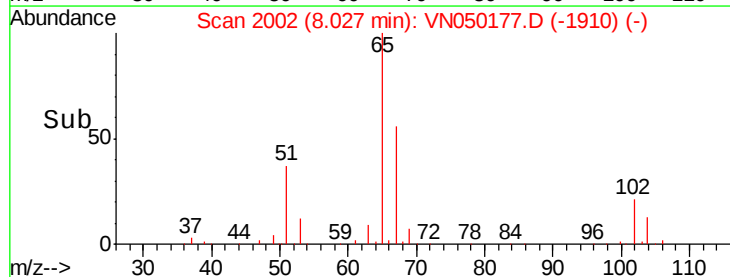
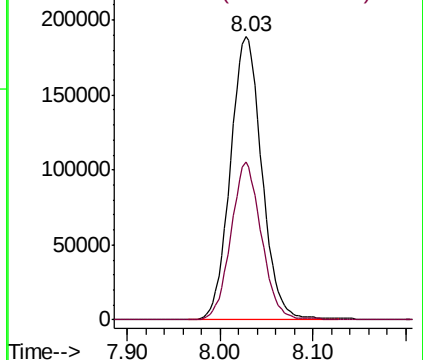


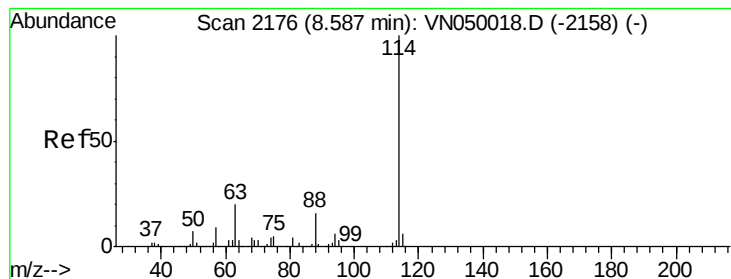
#33
1,2-Dichloroethane-d4
Concen: 47.83 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. -0.00 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion: 65 Resp: 445601
Ion Ratio Lower Upper
65 100
67 54.0 0.0 108.4



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# 2176

Delta R.T. -0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN0730WBL01

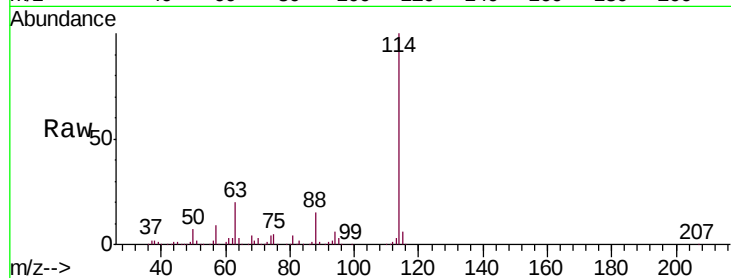
Tot Ion:114 Resp: 1059887

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

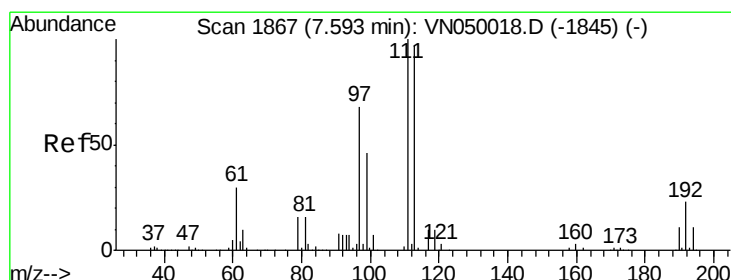
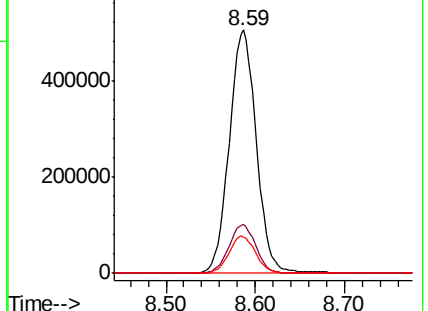
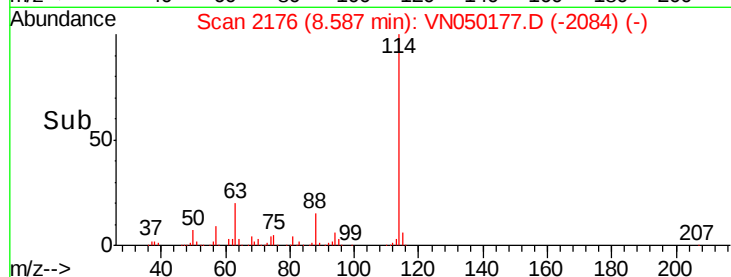
88 15.1 0.0 31.2



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: 47.65 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

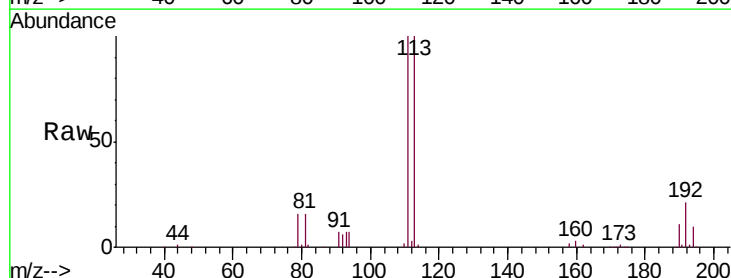
Tgt Ion:113 Resp: 412360

Ion Ratio Lower Upper

113 100

111 102.7 80.7 121.1

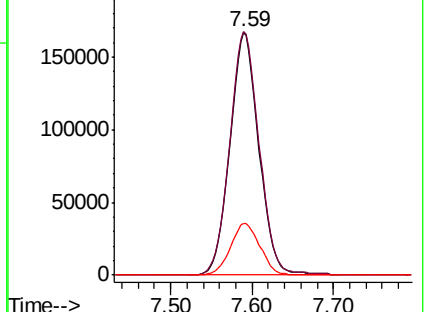
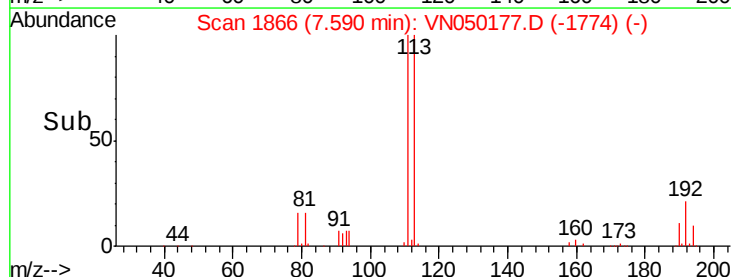
192 21.8 17.8 26.6

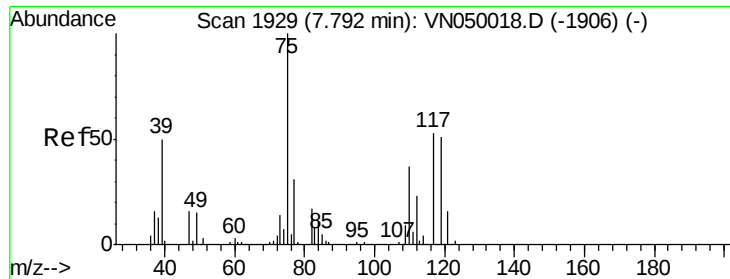


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

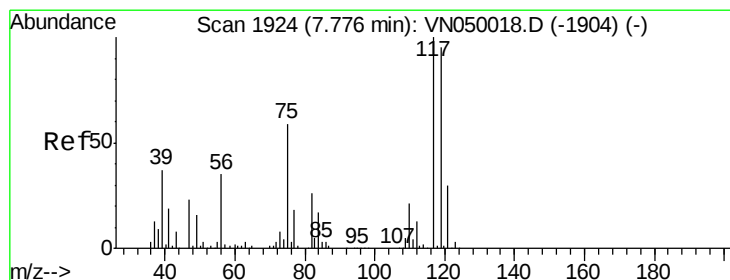
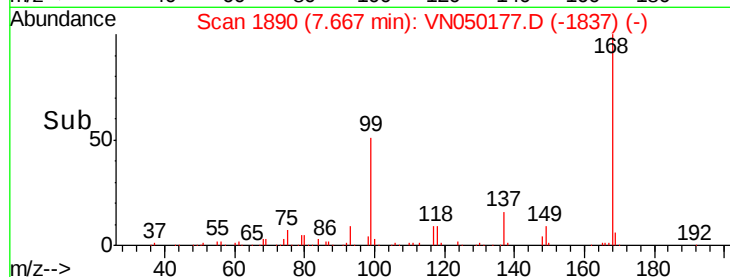
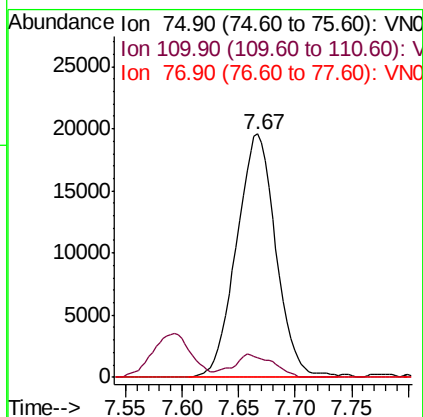
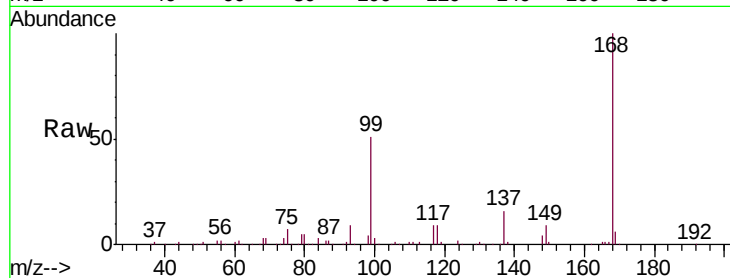




#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050177.D
 Acq: 30 Jul 2018 10:52

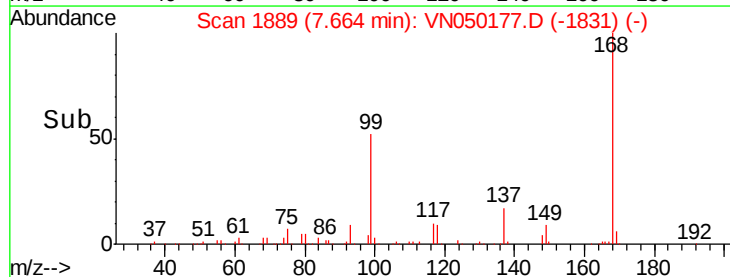
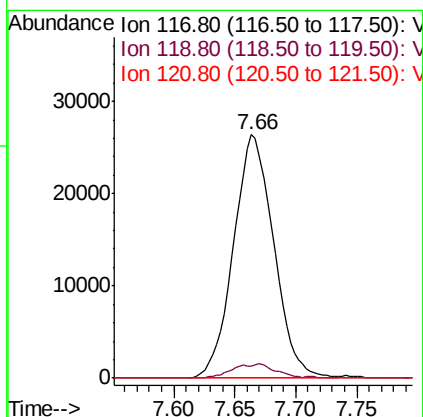
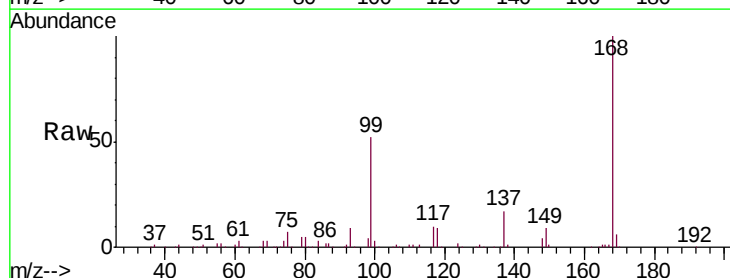
Instrument :
 MSVOA_N
 ClientSampled :
 VN0730WBL01

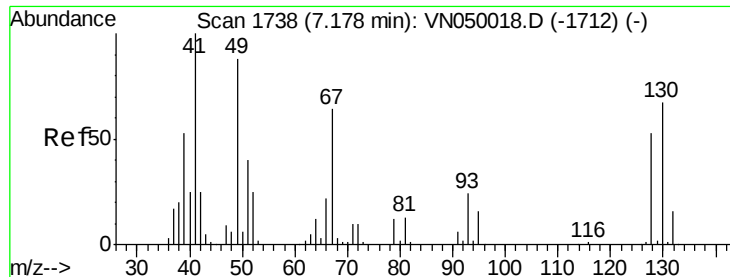
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.77 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN050177.D
 Acq: 30 Jul 2018 10:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.4	116.0#
121	0.0	23.9	35.9#

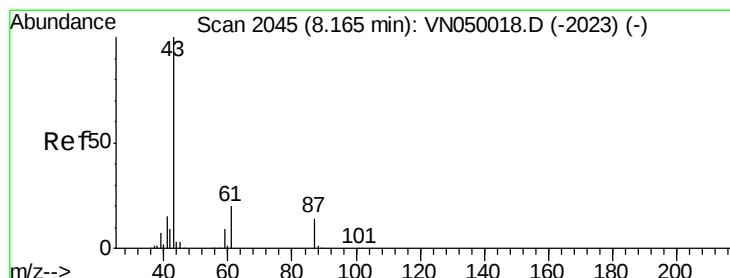
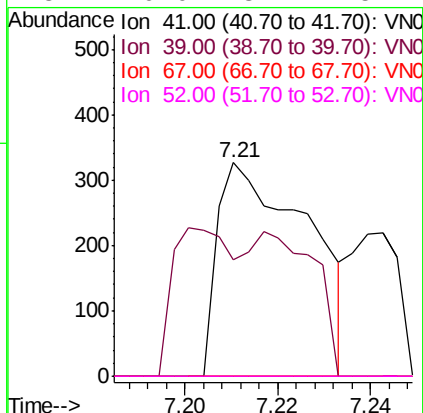
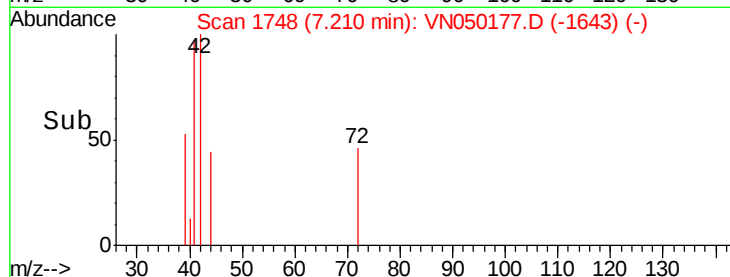
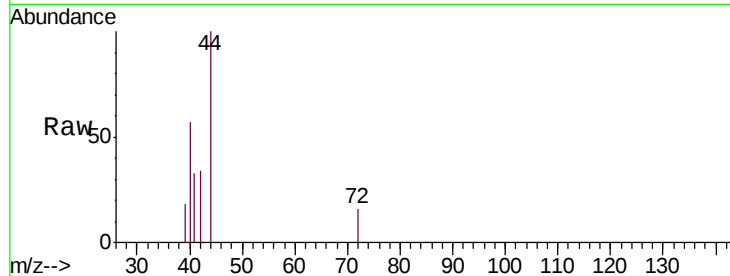




#41
Methacrylonitrile
Concen: 2.84 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.04 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

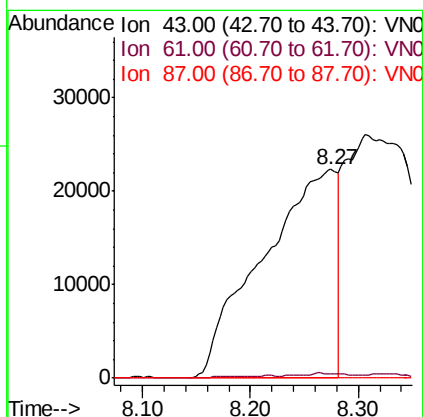
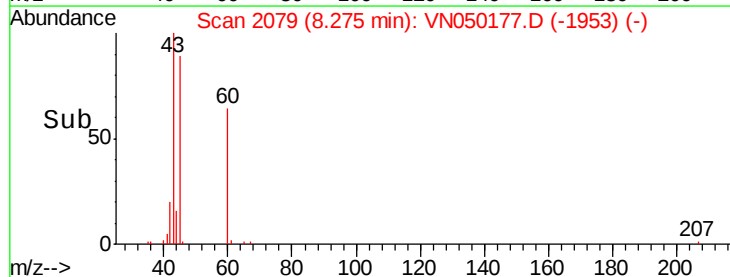
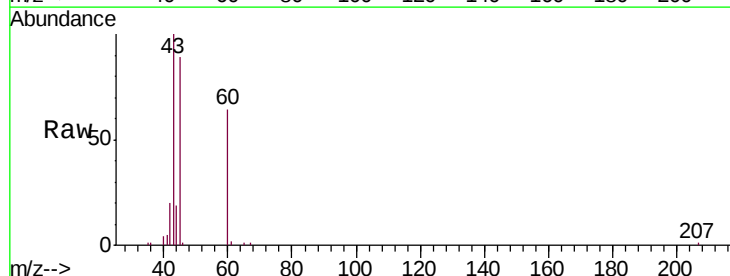
Instrument :
MSVOA_N
ClientSampleId :
VN0730WBL01

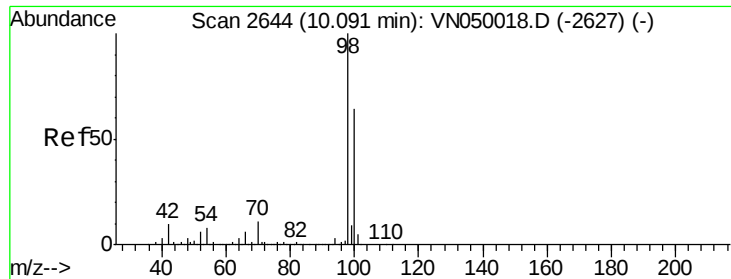
Tot Ion: 41 Resp: 442
Ion Ratio Lower Upper
41 100
39 45.2 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 5.81 ug/l
RT: 8.27 min Scan# 2079
Delta R.T. 0.11 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion: 43 Resp: 106881
Ion Ratio Lower Upper
43 100
61 0.6 15.8 23.6#
87 0.0 10.3 15.5#





#50

Toluene-d8

Concen: 45.80 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

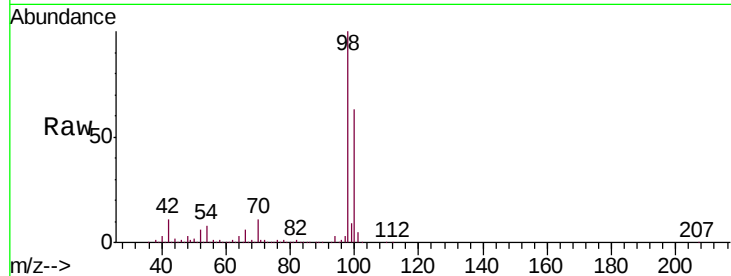
VN0730WBL01

Tot Ion: 98 Resp: 1457136

Ion Ratio Lower Upper

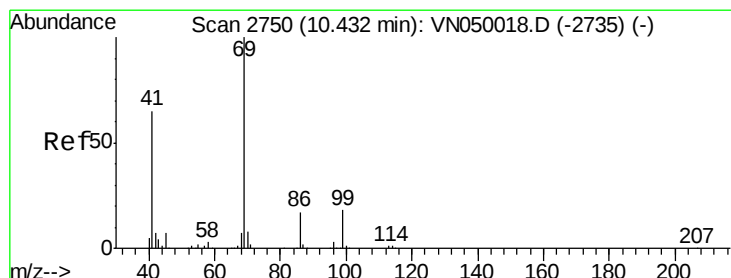
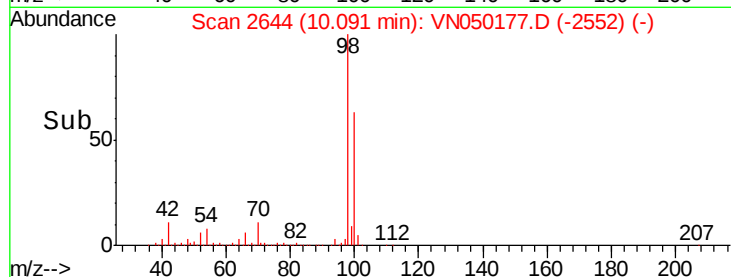
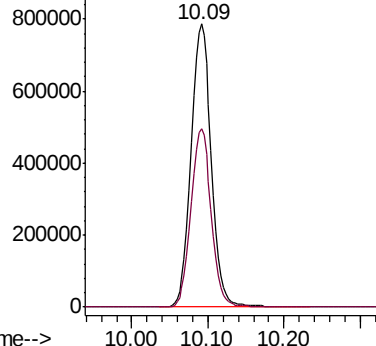
98 100

100 63.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.44 min Scan# 2752

Delta R.T. 0.01 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

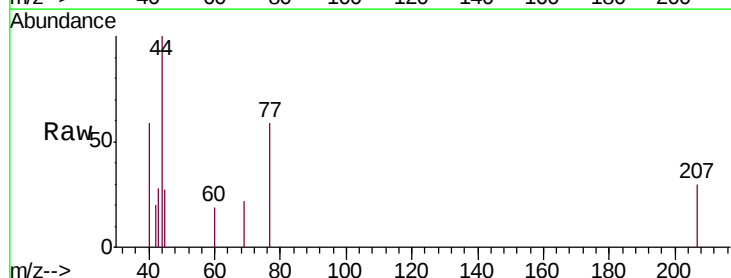
Tgt Ion: 69 Resp: 105

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

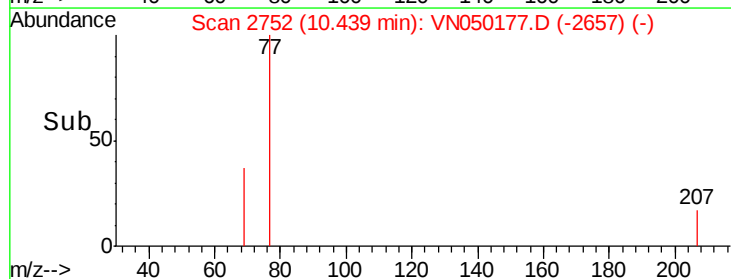
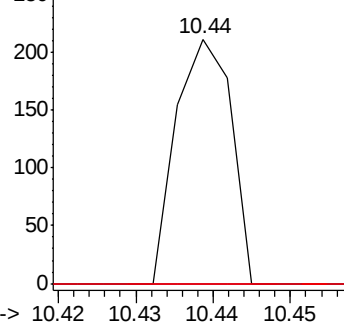
39 0.0 26.6 40.0#

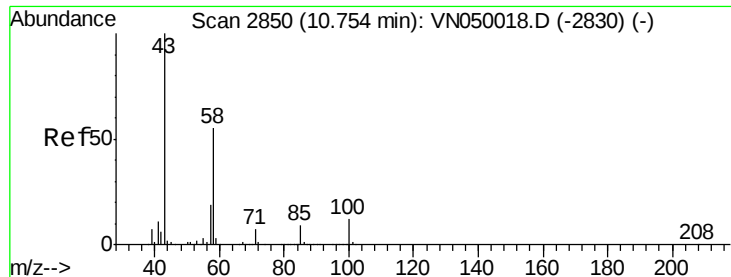


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 5.37 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

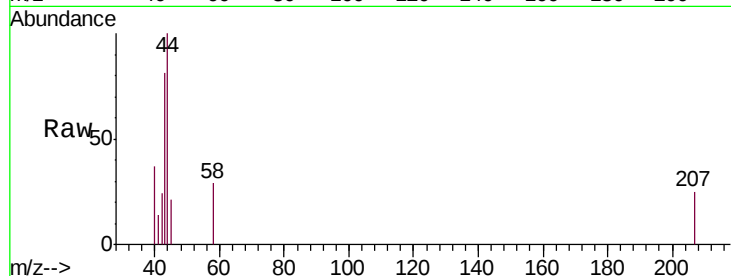
VN0730WBL01

Tot Ion: 43 Resp: 1173

Ion Ratio Lower Upper

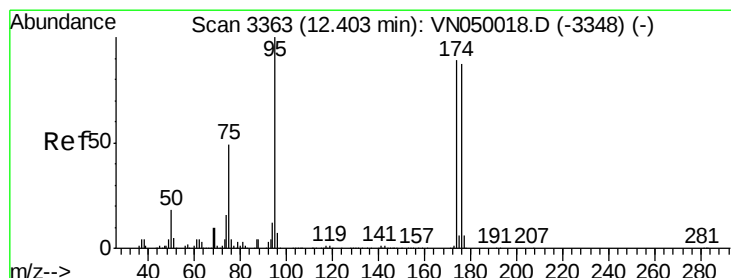
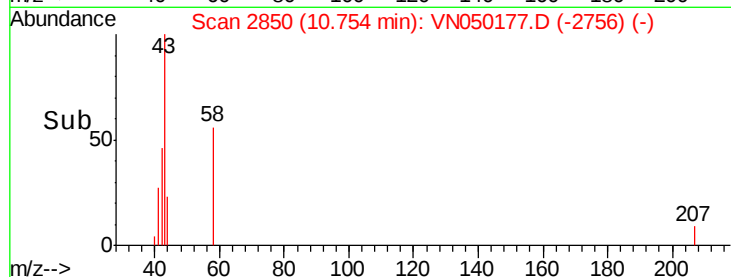
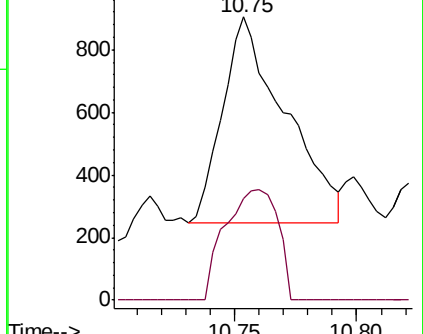
43 100

58 45.1 27.6 82.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 35.83 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

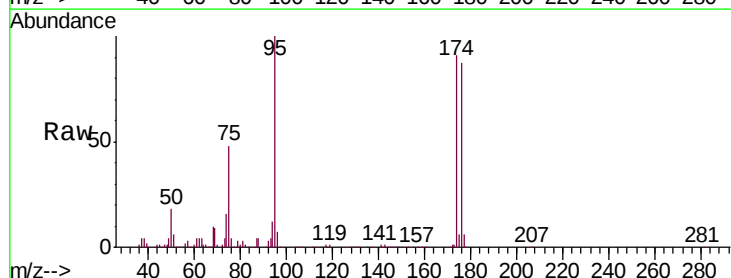
Tgt Ion: 95 Resp: 375294

Ion Ratio Lower Upper

95 100

174 91.5 0.0 178.2

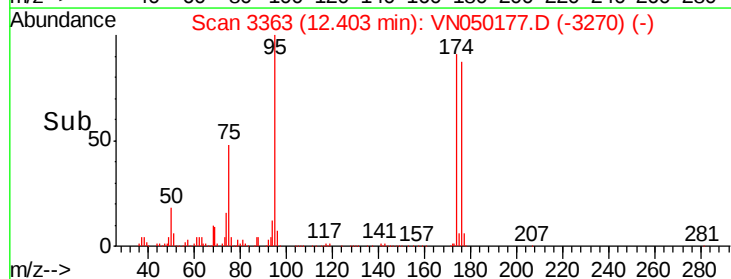
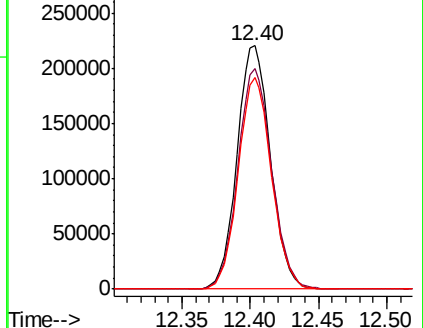
176 86.5 0.0 173.4

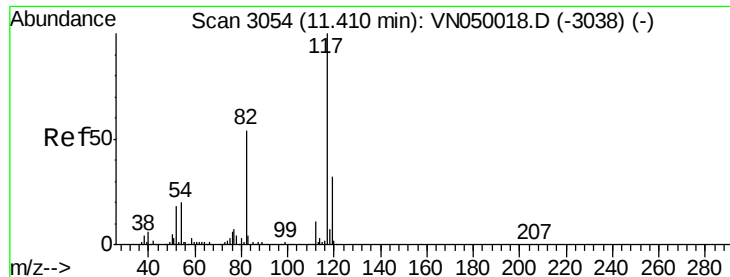


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN0730WBL01

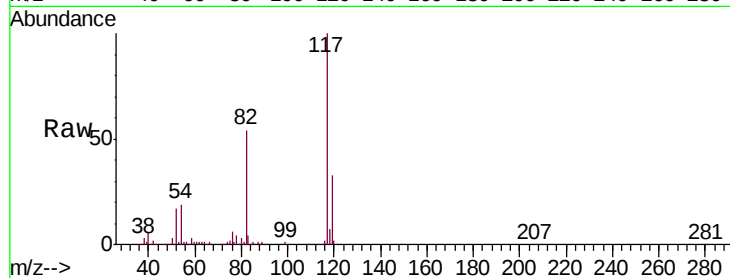
Tot Ion:117 Resp: 867461

Ion Ratio Lower Upper

117 100

82 53.9 43.7 65.5

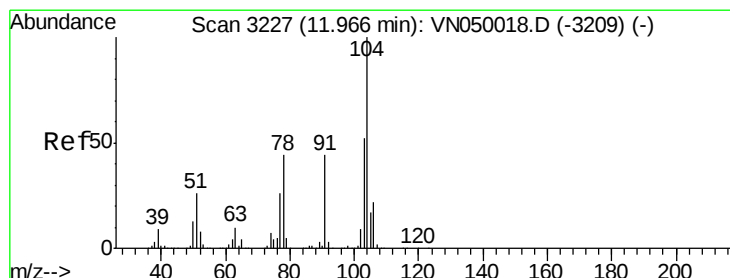
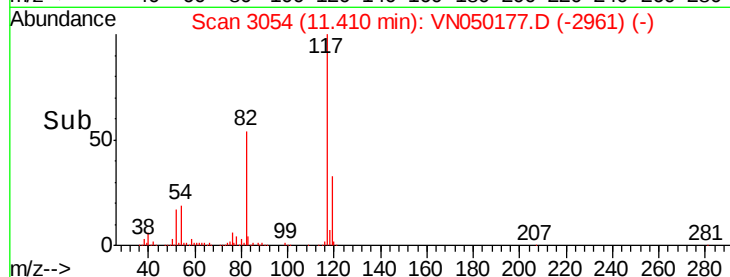
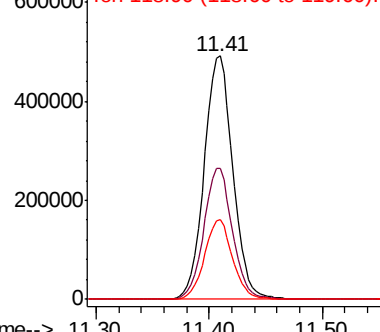
119 32.7 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 0.93 ug/l

RT: 11.96 min Scan# 3225

Delta R.T. -0.01 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

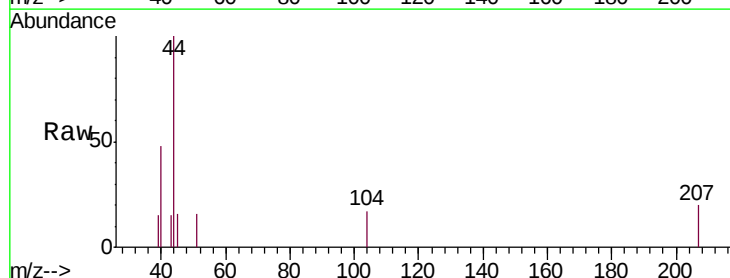
Tgt Ion:104 Resp: 68

Ion Ratio Lower Upper

104 100

78 158.8 39.3 58.9#

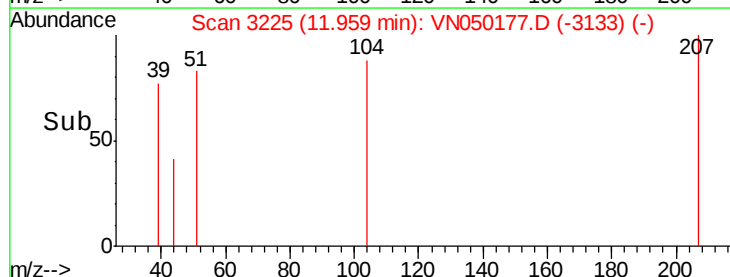
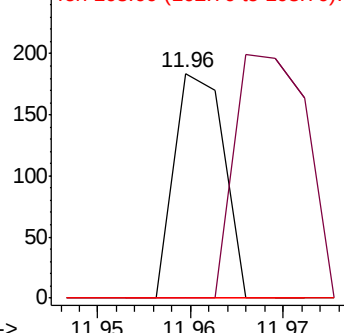
103 0.0 45.0 67.6#

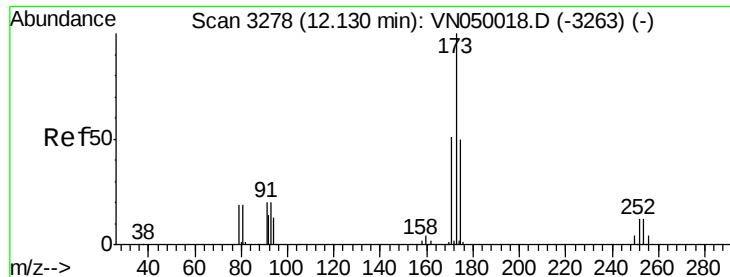


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V

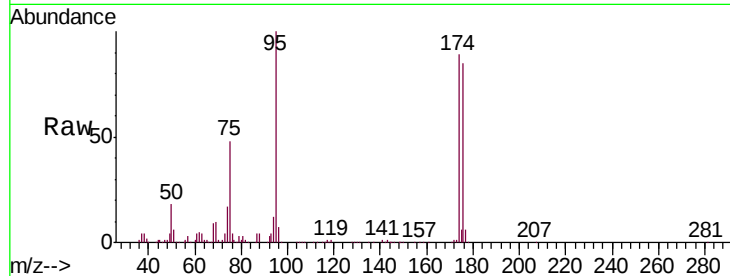




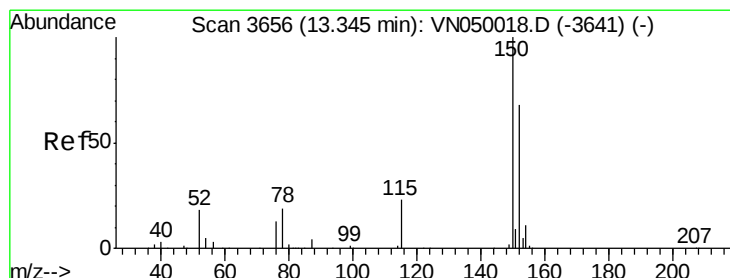
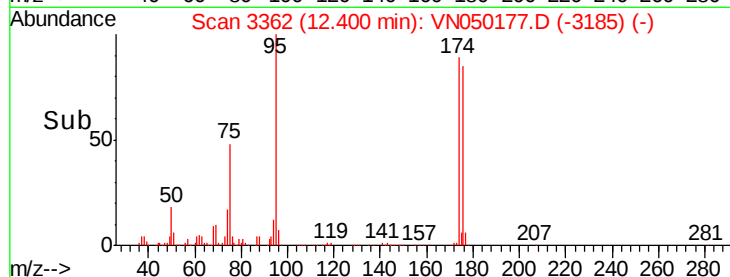
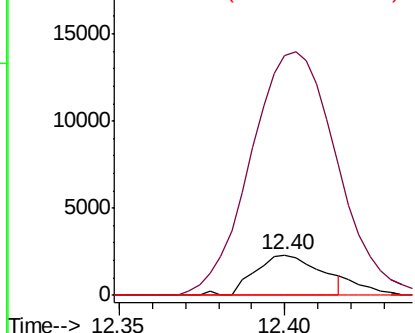
#71
Bromoform
Concen: 0.52 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN0730WBL01

Tot Ion:173 Resp: 3183
Ion Ratio Lower Upper
173 100
175 708.7 24.1 72.2#
254 0.0 0.2 0.2#

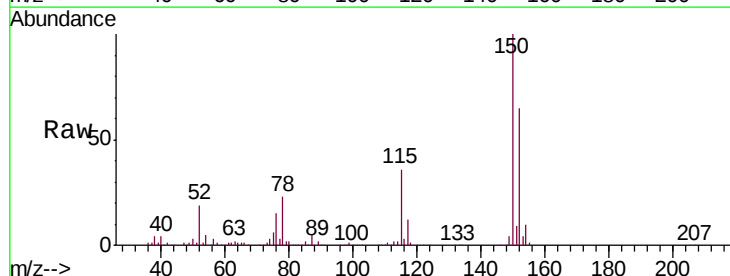


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

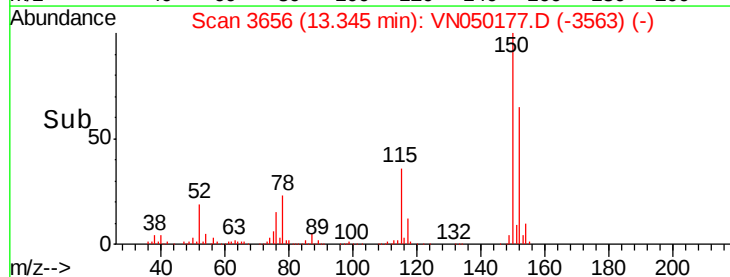
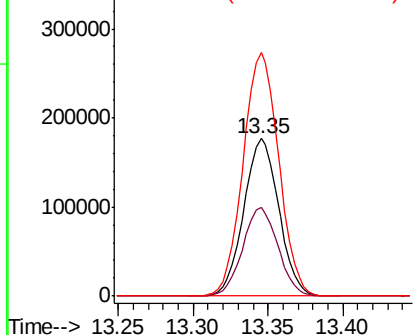


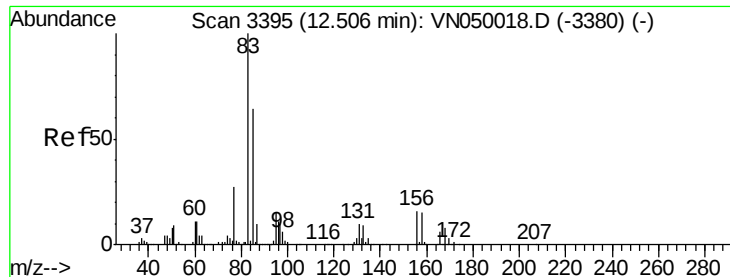
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion:152 Resp: 288560
Ion Ratio Lower Upper
152 100
115 56.5 27.8 83.3
150 157.3 0.0 348.6



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.11 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN0730WBL01

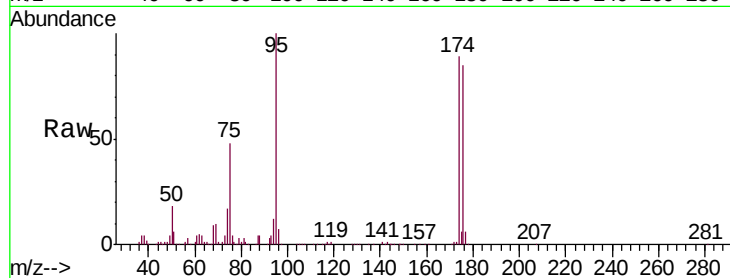
Tot Ion: 83 Resp: 138

Ion Ratio Lower Upper

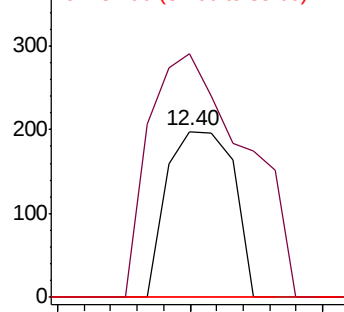
83 100

131 213.0 5.1 15.3#

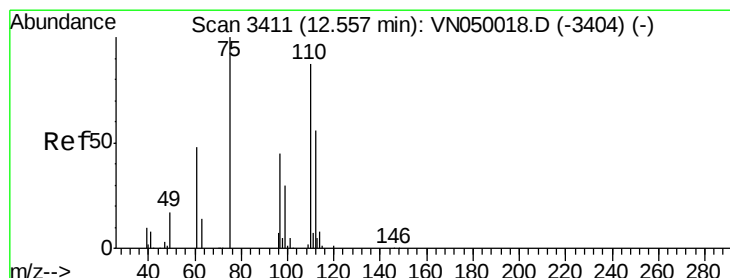
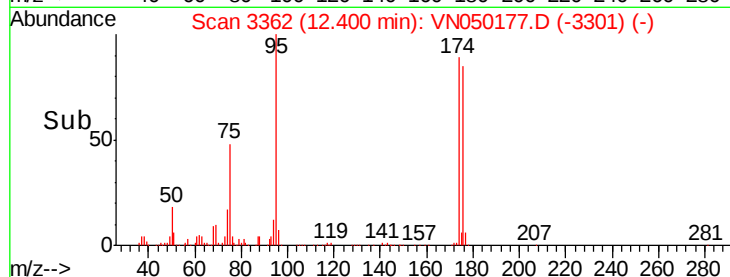
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



Time--> 12.38 12.40 12.42



#76

1,2,3-Trichloropropane

Concen: 33.78 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050177.D

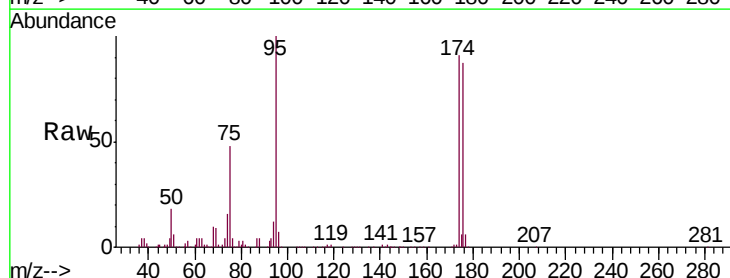
Acq: 30 Jul 2018 10:52

Tgt Ion: 75 Resp: 181170

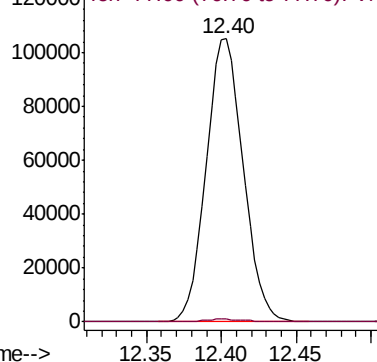
Ion Ratio Lower Upper

75 100

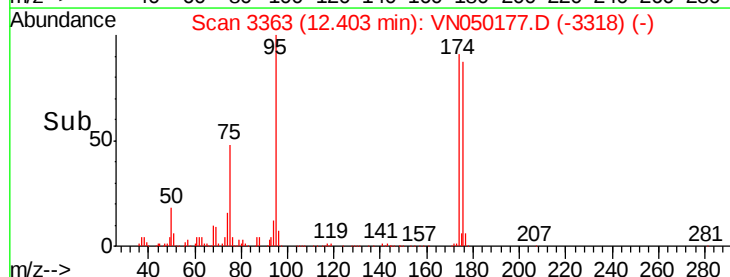
77 1.2 0.0 0.0#

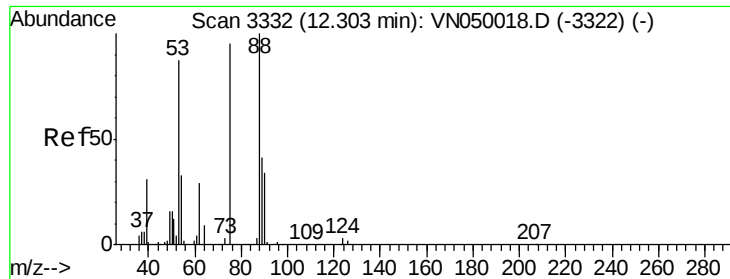


Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.35 12.40 12.45

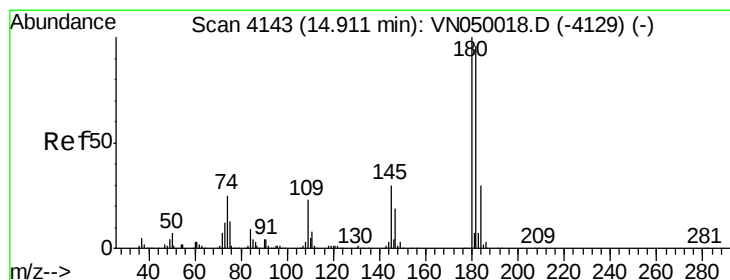
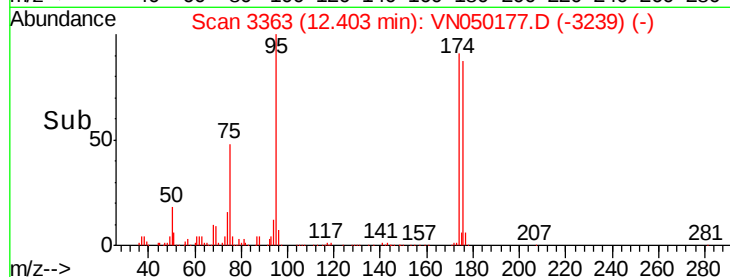
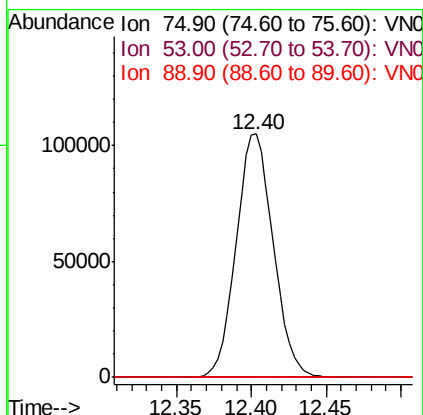
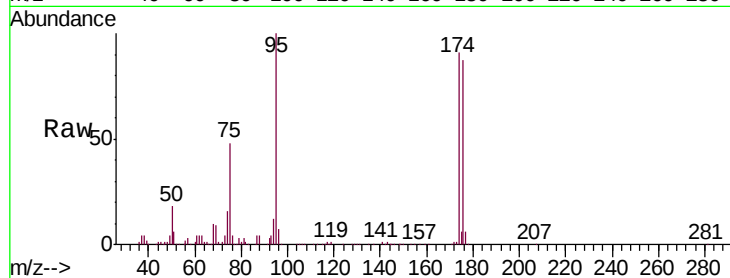




#81
trans-1,4-Dichloro-2-butene
Concen: 107.16 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

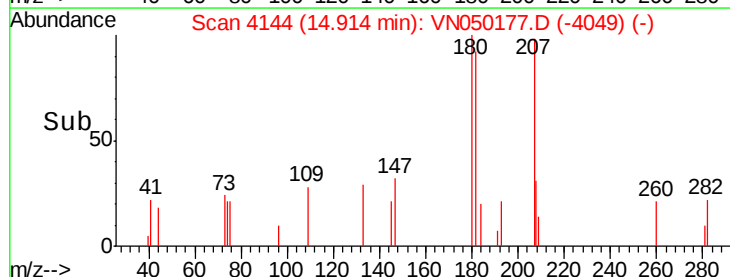
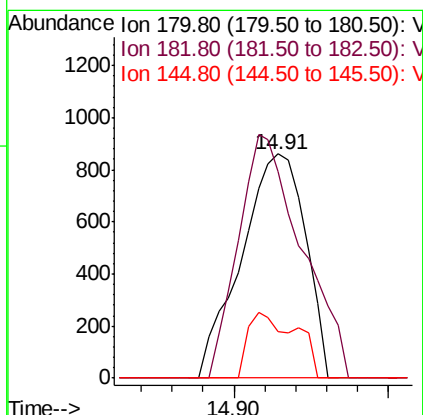
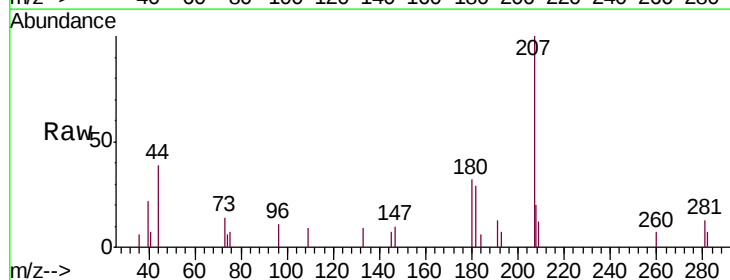
Instrument :
MSVOA_N
ClientSampled :
VN0730WBL01

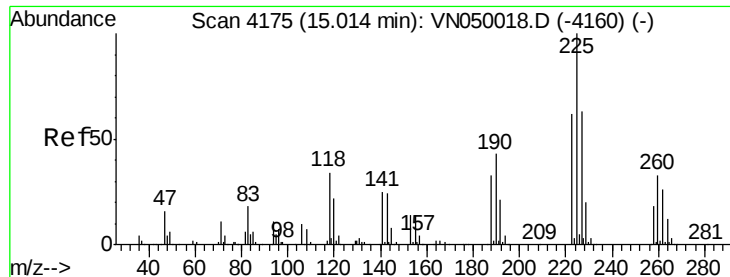
Tot Ion: 75 Resp: 181170
Ion Ratio Lower Upper
75 100
53 0.2 73.5 110.3#
89 0.0 36.0 54.0#



#93
1,2,4-Trichlorobenzene
Concen: 3.29 ug/l
RT: 14.91 min Scan# 4144
Delta R.T. 0.00 min
Lab File: VN050177.D
Acq: 30 Jul 2018 10:52

Tgt Ion:180 Resp: 1238
Ion Ratio Lower Upper
180 100
182 107.2 46.7 140.1
145 21.8 13.8 41.4





#94

Hexachlorobutadiene

Concen: 0.83 ug/l

RT: 15.01 min Scan# 4173

Delta R.T. -0.01 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

Instrument :

MSVOA_N

ClientSampleId :

VN0730WBL01

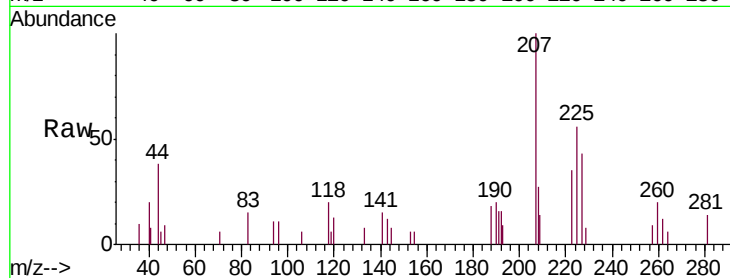
Tot Ion:225 Resp: 2657

Ion Ratio Lower Upper

225 100

223 56.7 31.4 94.2

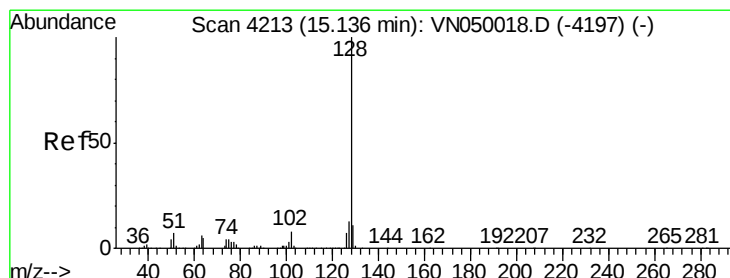
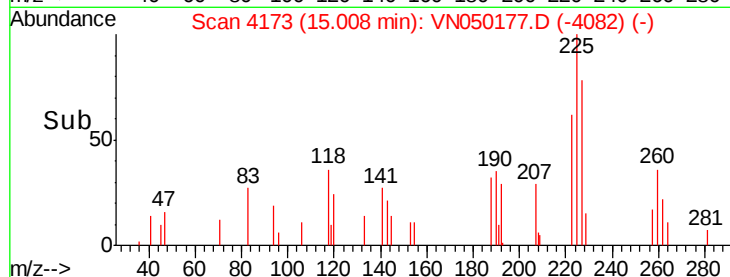
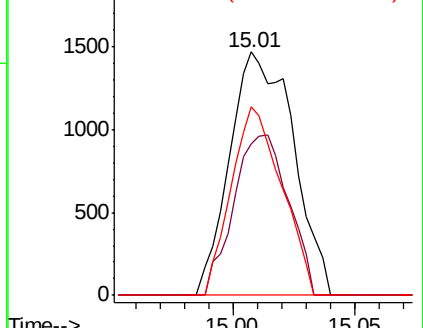
227 61.8 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.70 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050177.D

Acq: 30 Jul 2018 10:52

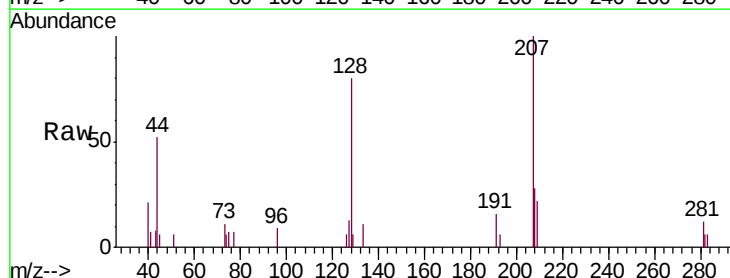
Tgt Ion:128 Resp: 4067

Ion Ratio Lower Upper

128 100

127 7.2 10.4 15.6#

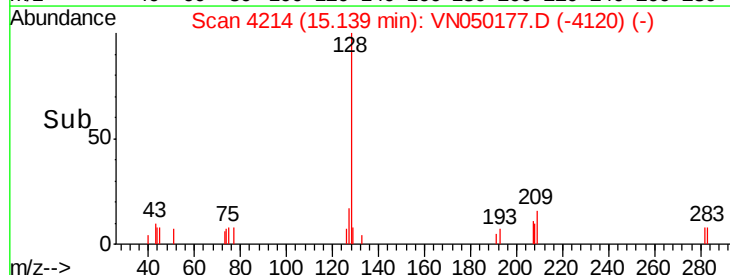
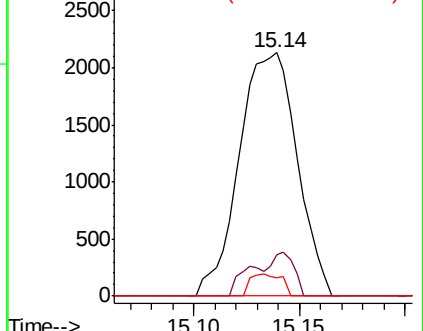
129 4.9 8.8 13.2#

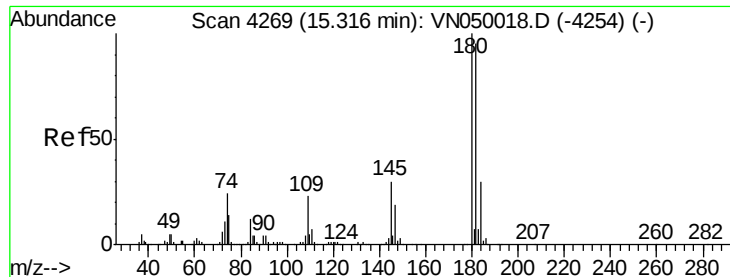


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.47 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN050177.D
 Acq: 30 Jul 2018 10:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0730WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	107.2	48.1	144.4
145	32.0	15.3	45.9

