

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070618\
 Data File : VN049748.D
 Acq On : 6 Jul 2018 19:13
 Operator : MD\SY
 Sample : J3869-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-1

Quant Time: Jul 06 22:55:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1495242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2523475	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2099172	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	746935	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	1056487	53.50	ug/l	0.00
Spiked Amount			Recovery	=	107.00%	
35) Dibromofluoromethane	7.59	113	875215	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
50) Toluene-d8	10.09	98	3366254	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	
62) 4-Bromofluorobenzene	12.40	95	976260	38.72	ug/l	0.00
Spiked Amount			Recovery	=	77.44%	

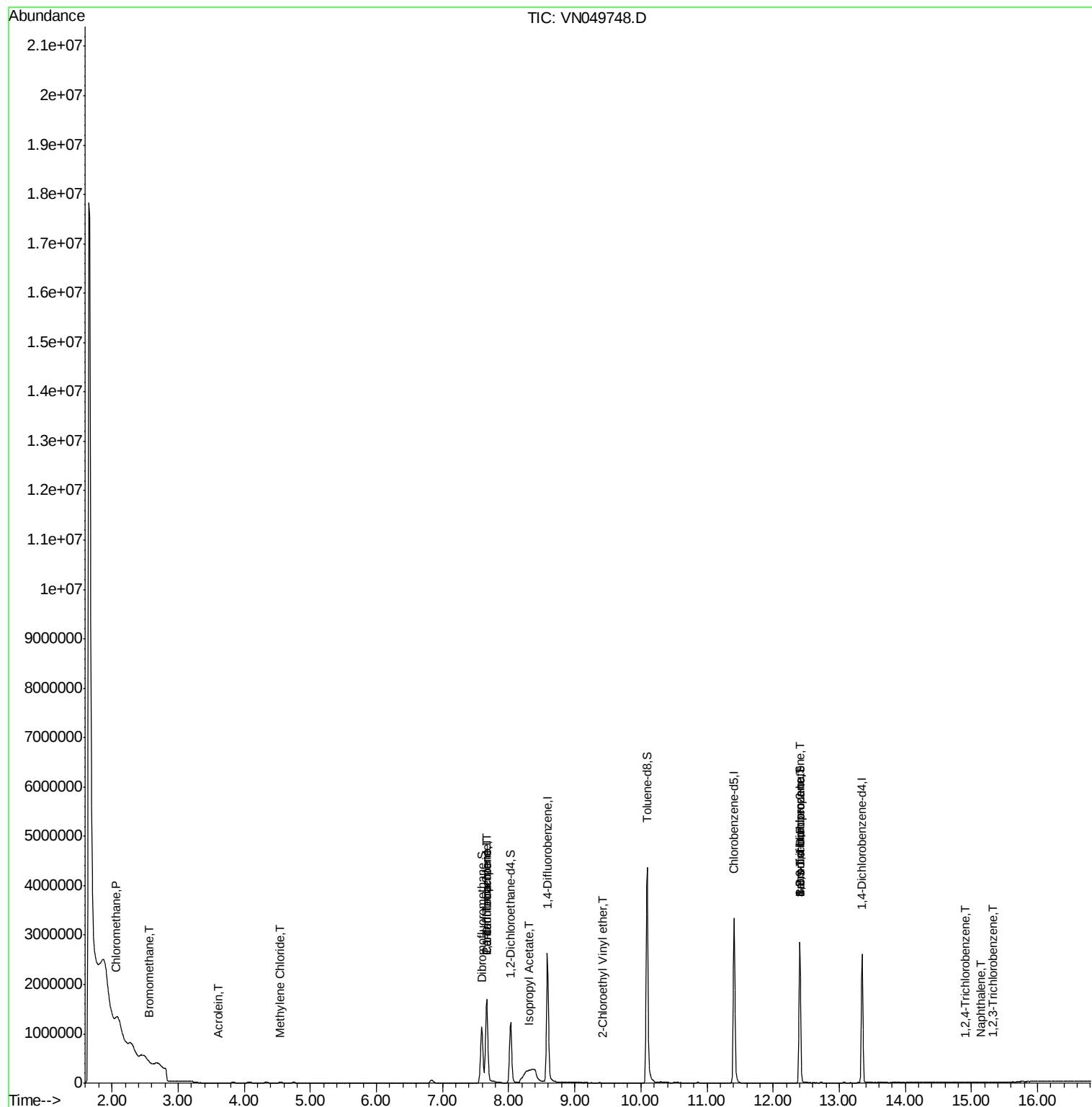
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	8321	0.40	ug/l	98
5) Bromomethane	2.57	94	2521	0.21	ug/l	# 52
13) Acrolein	3.61	56	806	0.76	ug/l	92
16) Acetone	3.82	43	21186	Below	Cal	89
17) Carbon Disulfide	4.05	76	2747	Below	Cal	# 93
18) Methyl Acetate	4.34	43	25211	Below	Cal	92
20) Methylene Chloride	4.54	84	10049	0.49	ug/l	88
36) 1,1-Dichloropropene	7.67	75	104530	3.68	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	133685	4.84	ug/l	# 16
43) Isopropyl Acetate	8.31	43	516054	15.29	ug/l	# 62
58) 2-Chloroethyl Vinyl ether	9.44	63	65	10.83	ug/l	# 48
71) Bromoform	12.40	173	3975	0.30	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.50	83	66	Below	Cal	# 25
76) 1,2,3-Trichloropropane	12.40	75	480649	40.12	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	480649	136.28	ug/l	# 13
87) 1,3-Dichlorobenzene	13.29	146	301	Below	Cal	# 63
88) 1,4-Dichlorobenzene	13.37	146	504	Below	Cal	# 25
91) 1,2-Dichlorobenzene	13.65	146	341	Below	Cal	# 57
92) 1,2-Dibromo-3-Chloropropan	14.27	75	163	Below	Cal	# 1
93) 1,2,4-Trichlorobenzene	14.92	180	65	2.41	ug/l	# 37
95) Naphthalene	15.14	128	708	4.06	ug/l	# 70
96) 1,2,3-Trichlorobenzene	15.32	180	115	1.66	ug/l	# 29

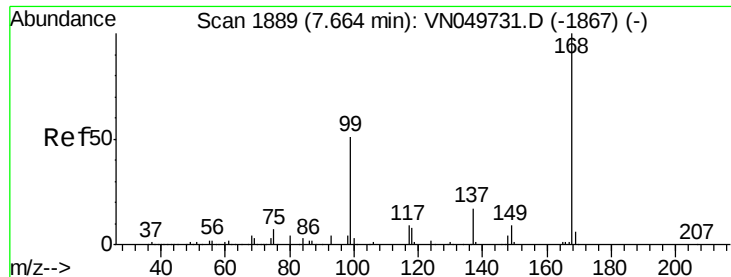
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 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: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

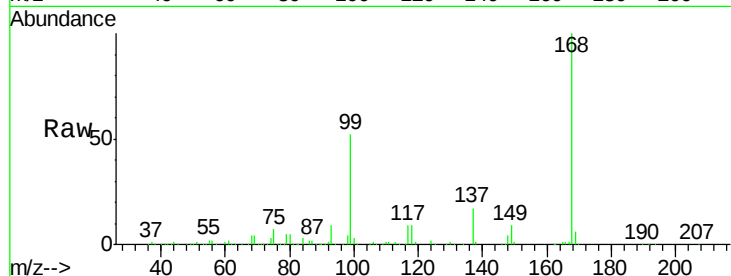
TB-1

Tot Ion:168 Resp: 1495242

Ion Ratio Lower Upper

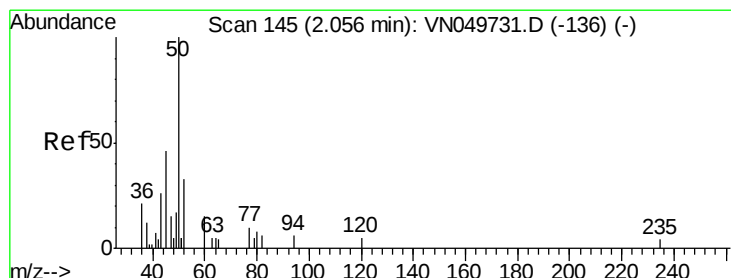
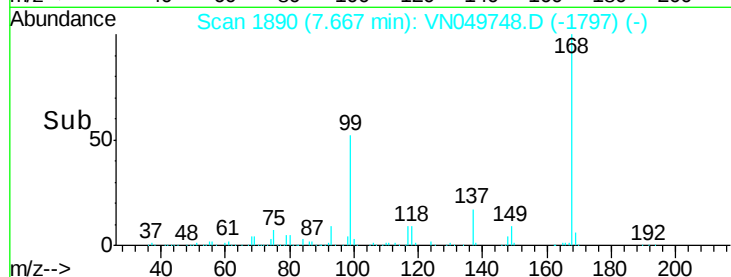
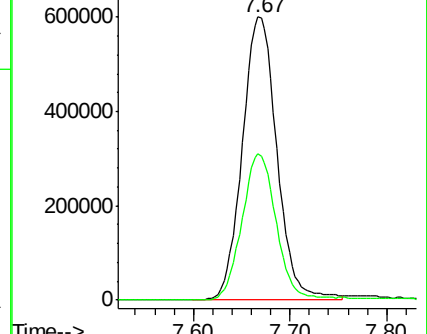
168 100

99 51.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.40 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049748.D

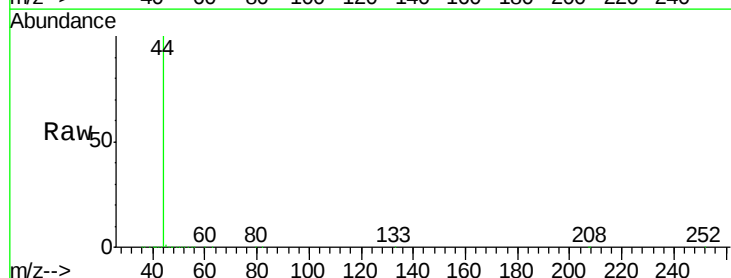
Acq: 6 Jul 2018 19:13

Tgt Ion: 50 Resp: 8321

Ion Ratio Lower Upper

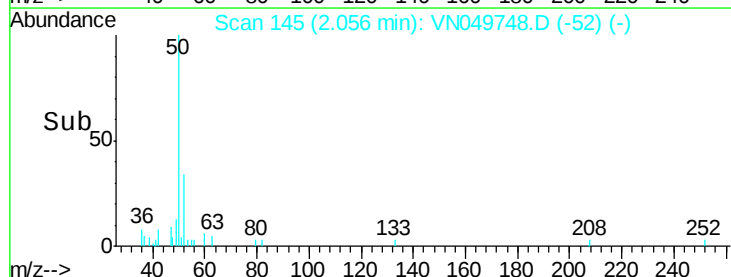
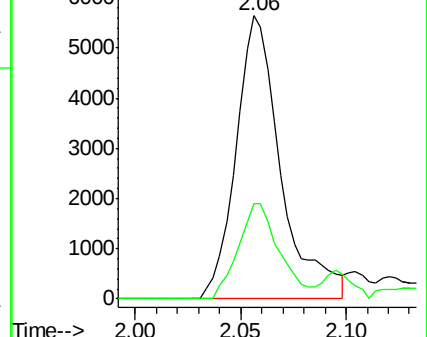
50 100

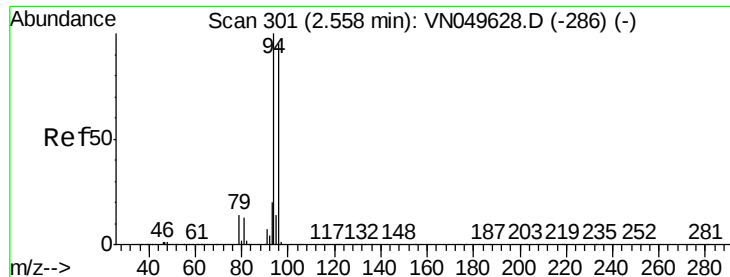
52 33.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 0.21 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

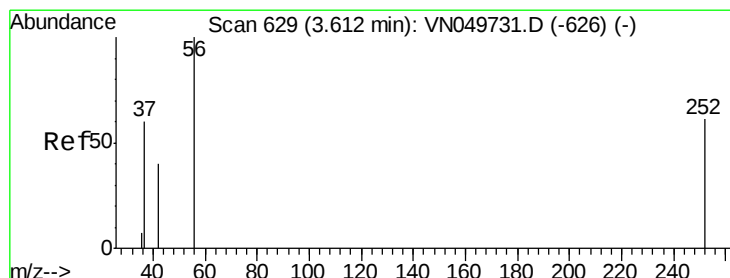
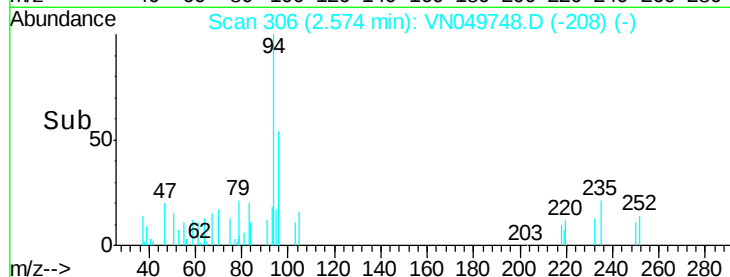
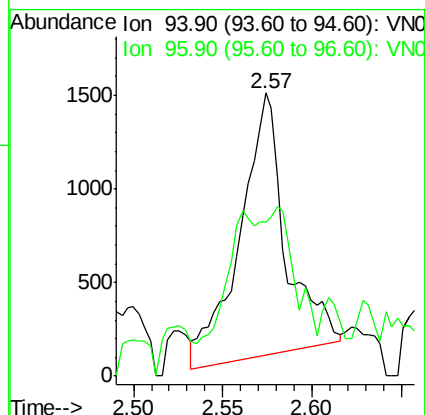
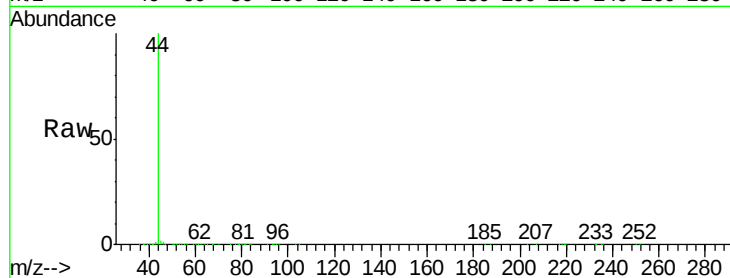
TB-1

Tot Ion: 94 Resp: 2521

Ion Ratio Lower Upper

94 100

96 47.9 75.7 113.5#



#13

Acrolein

Concen: 0.76 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049748.D

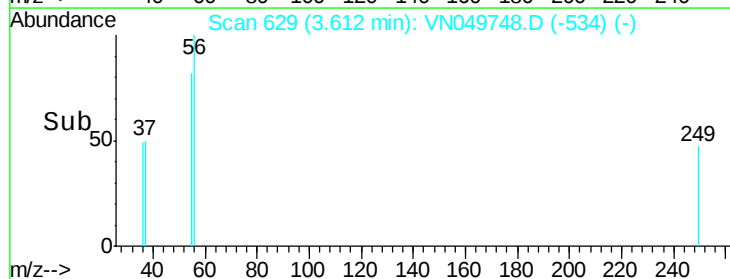
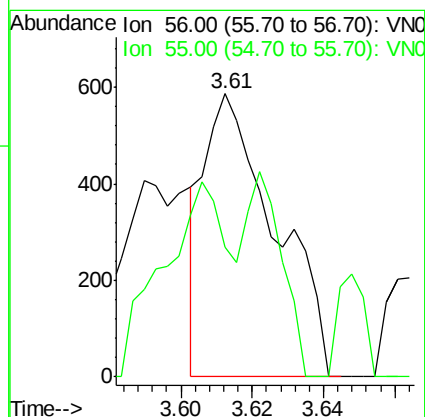
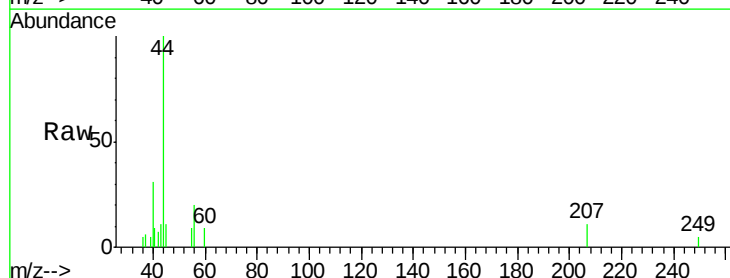
Acq: 6 Jul 2018 19:13

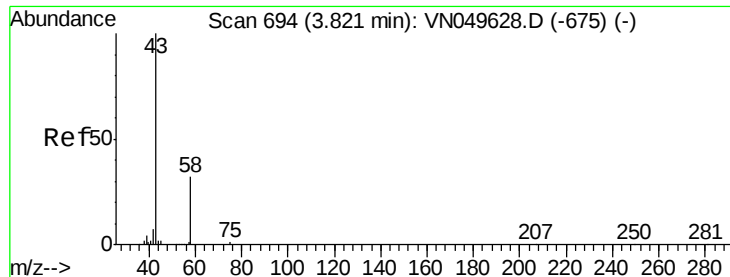
Tgt Ion: 56 Resp: 806

Ion Ratio Lower Upper

56 100

55 63.4 55.8 83.8





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

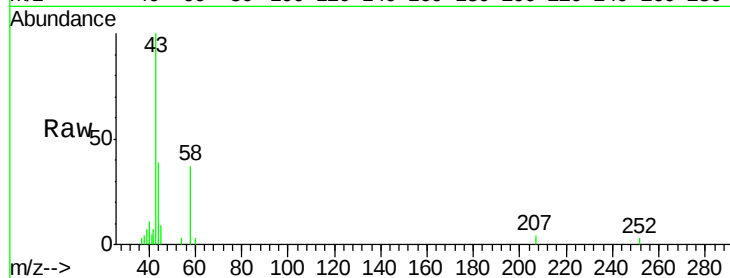
TB-1

Tot Ion: 43 Resp: 21186

Ion Ratio Lower Upper

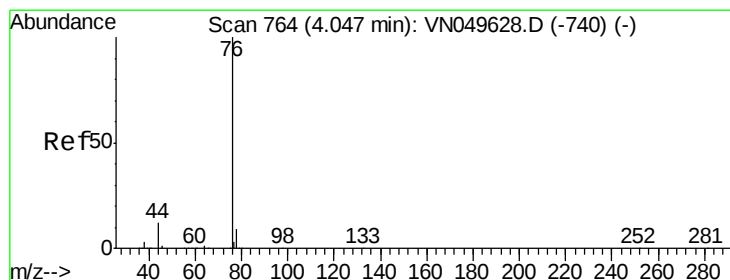
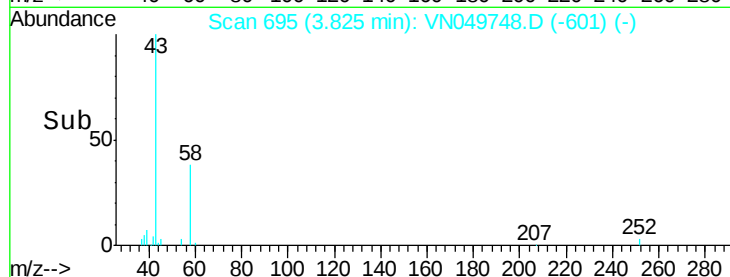
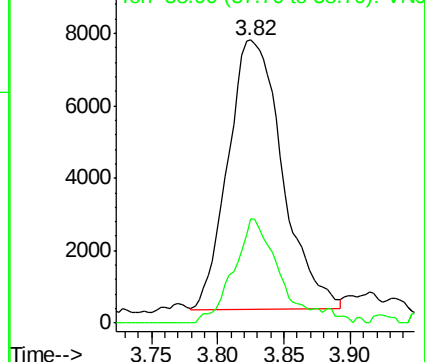
43 100

58 38.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN049748.D

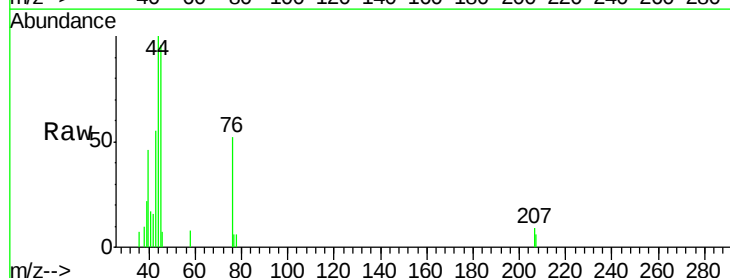
Acq: 6 Jul 2018 19:13

Tgt Ion: 76 Resp: 2747

Ion Ratio Lower Upper

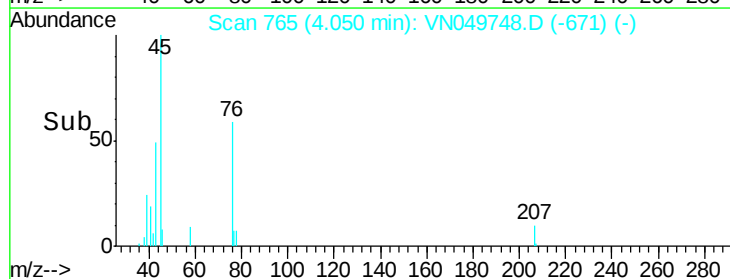
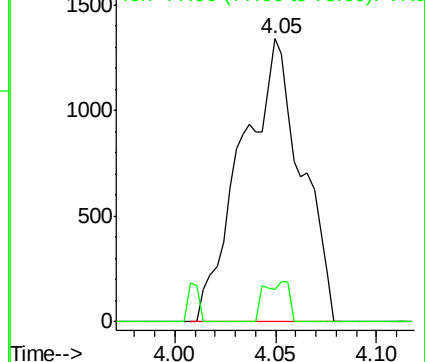
76 100

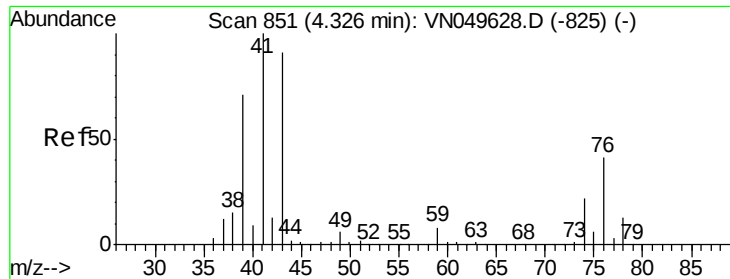
78 11.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

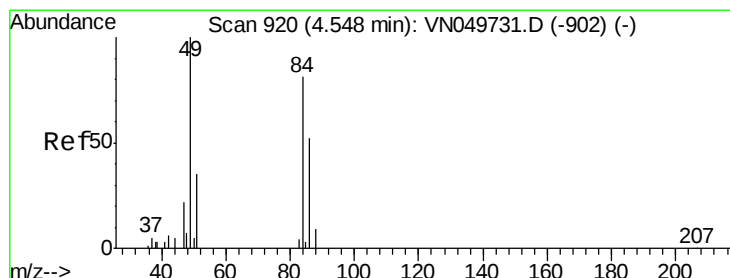
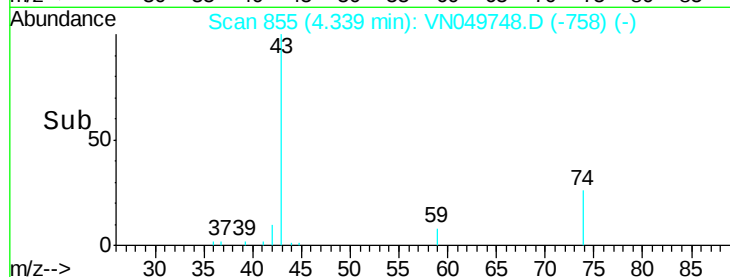
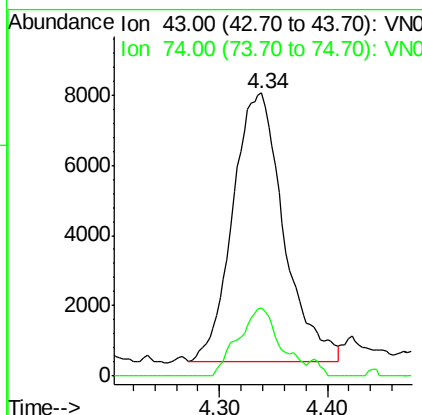
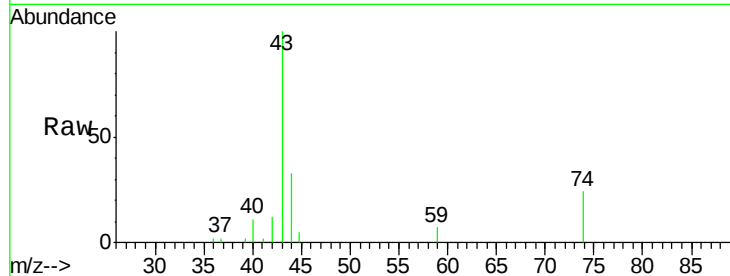




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

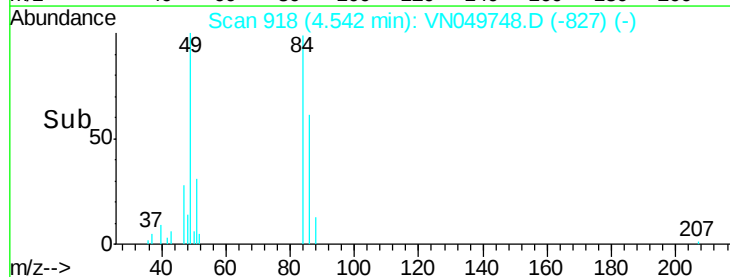
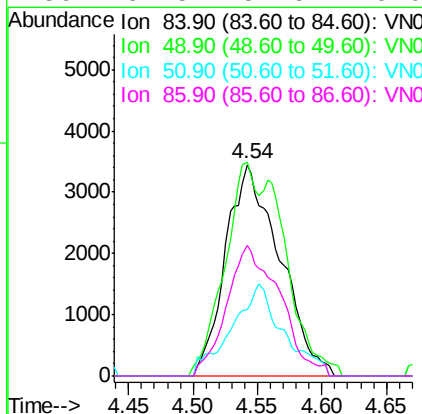
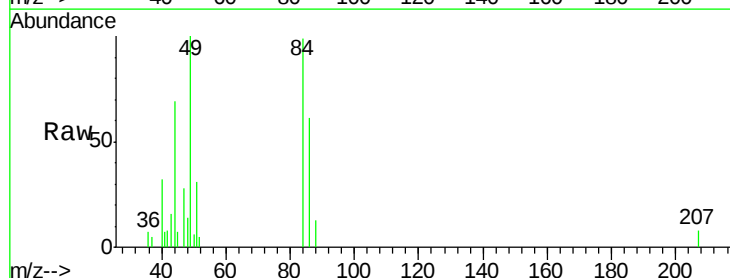
Instrument :
MSVOA_N
ClientSampled :
TB-1

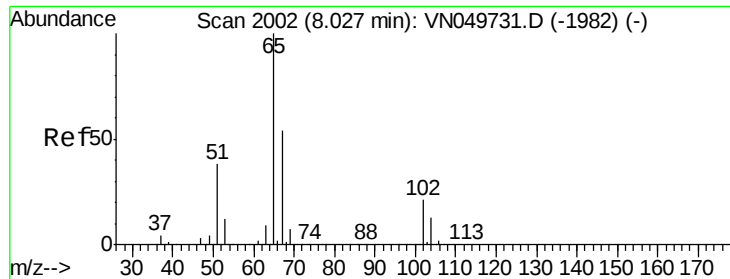
Tot Ion: 43 Resp: 25211
Ion Ratio Lower Upper
43 100
74 20.7 19.8 29.8



#20
Methylene Chloride
Concen: 0.49 ug/l
RT: 4.54 min Scan# 918
Delta R.T. -0.01 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

Tgt Ion: 84 Resp: 10049
Ion Ratio Lower Upper
84 100
49 101.0 95.4 143.2
51 31.7 28.4 42.6
86 61.5 52.6 79.0

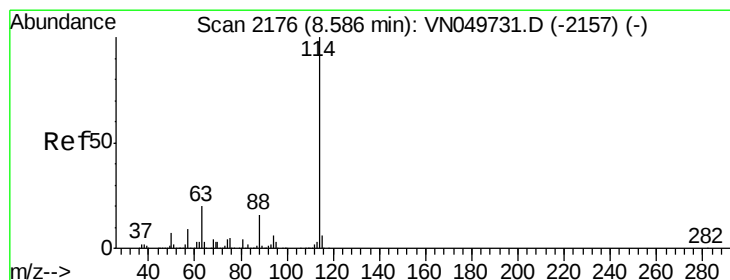
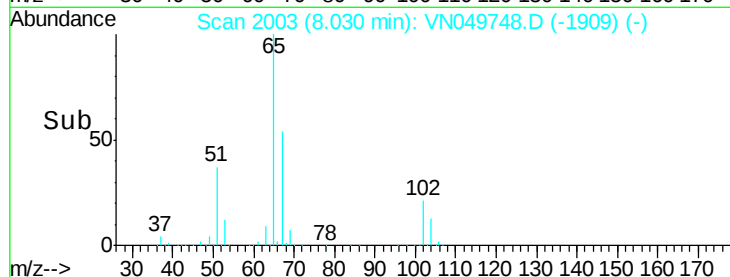
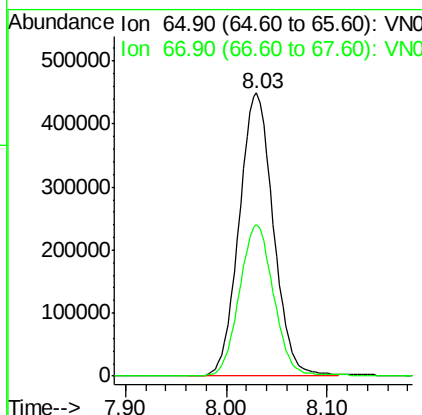
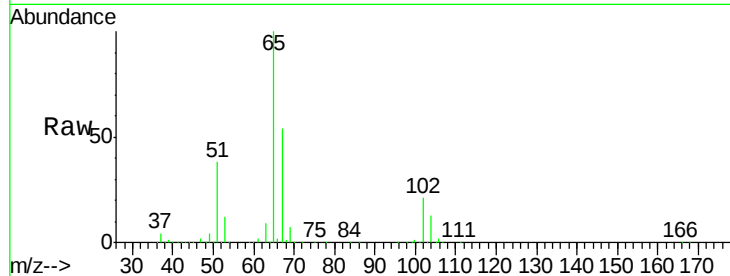




#33
 1,2-Dichloroethane-d4
 Concen: 53.50 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049748.D
 Acq: 6 Jul 2018 19:13

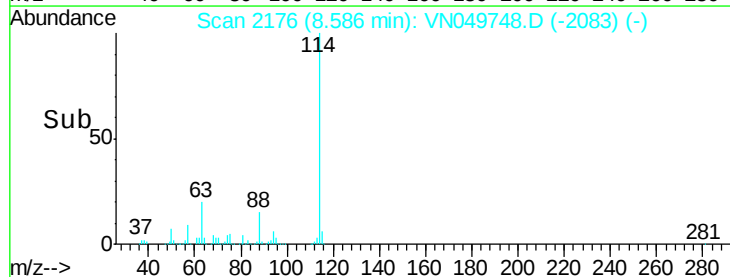
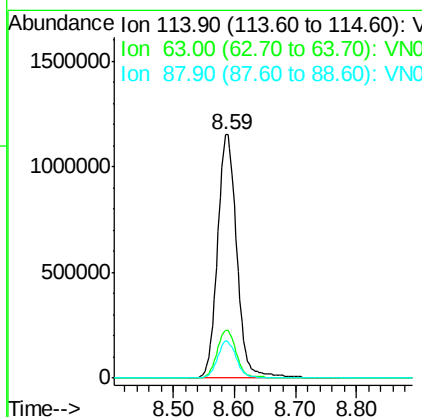
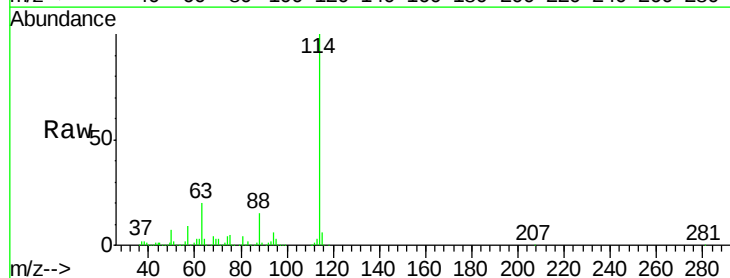
Instrument :
 MSVOA_N
 ClientSampled :
 TB-1

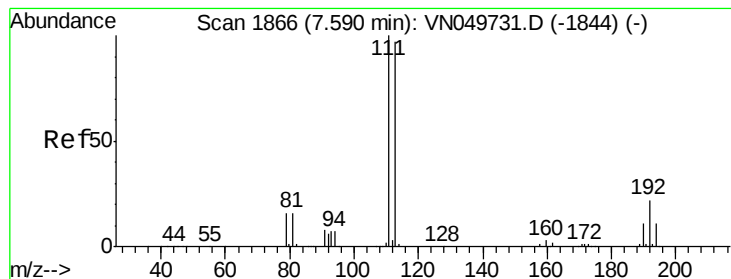
Tot Ion: 65 Resp: 1056487
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049748.D
 Acq: 6 Jul 2018 19:13

Tgt Ion: 114 Resp: 2523475
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 46.39 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

TB-1

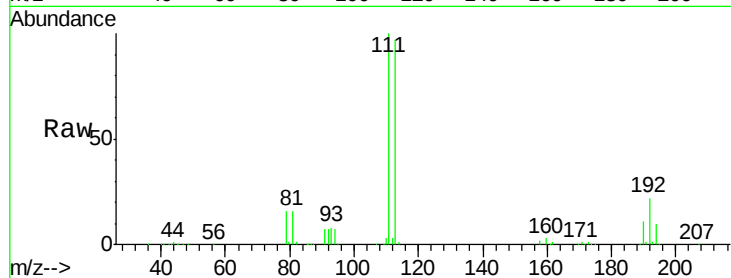
Tot Ion:113 Resp: 875215

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

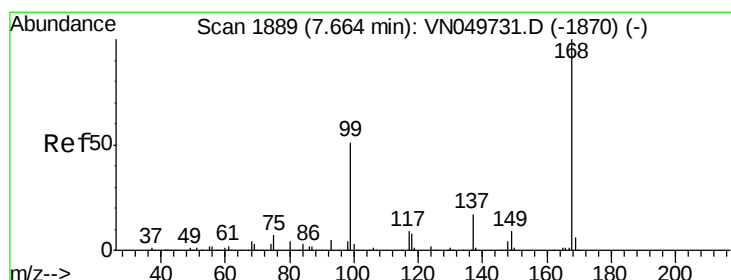
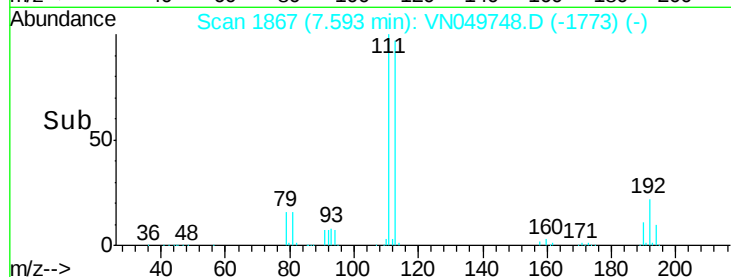
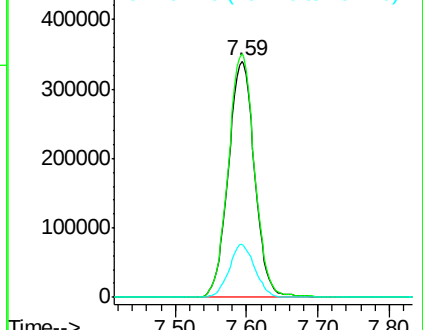
192 22.0 17.8 26.6



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: 3.68 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

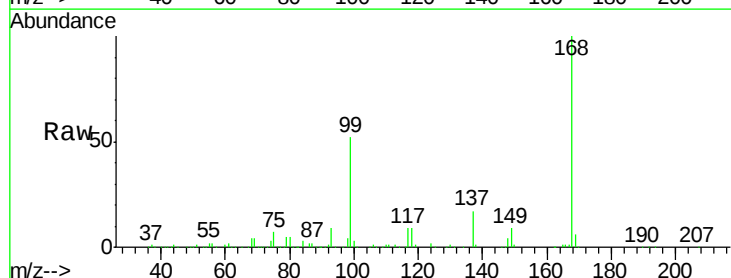
Tgt Ion: 75 Resp: 104530

Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.4#

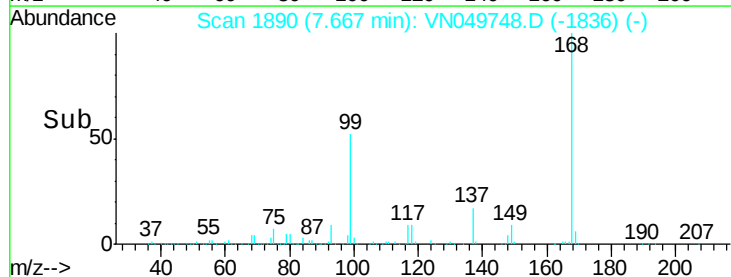
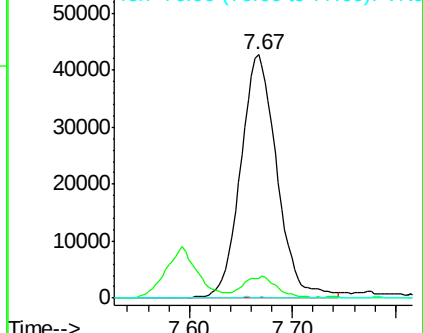
77 0.1 24.9 37.3#

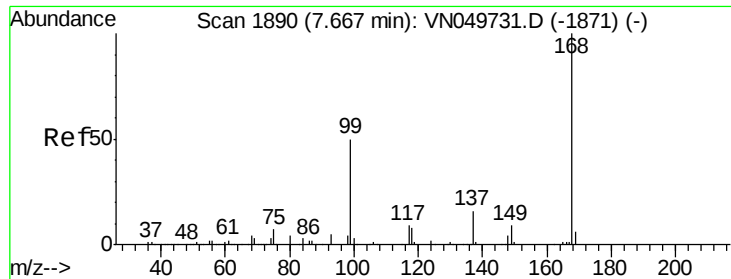


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

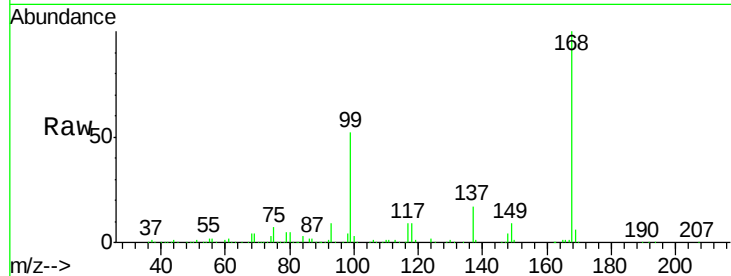




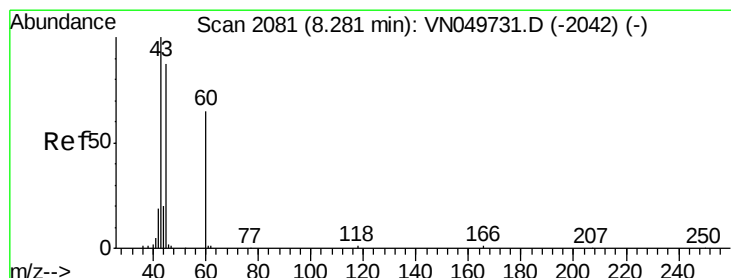
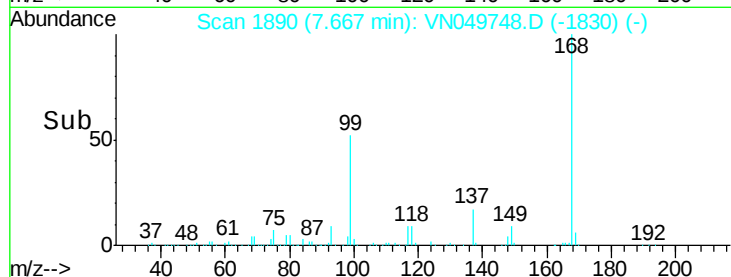
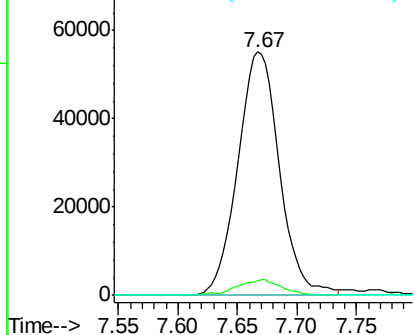
#38
Carbon Tetrachloride
Concen: 4.84 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

Instrument :
MSVOA_N
ClientSampleId :
TB-1

Tot Ion:117 Resp: 133685
Ion Ratio Lower Upper
117 100
119 6.1 77.2 115.8#
121 0.0 25.0 37.6#

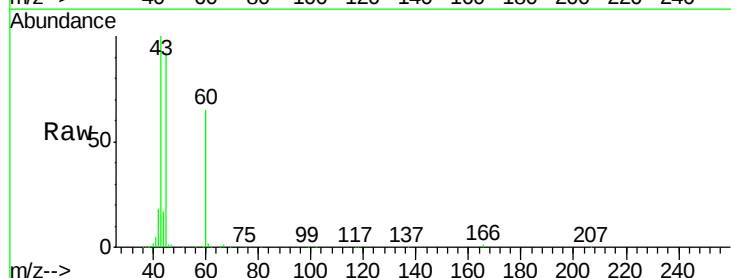


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

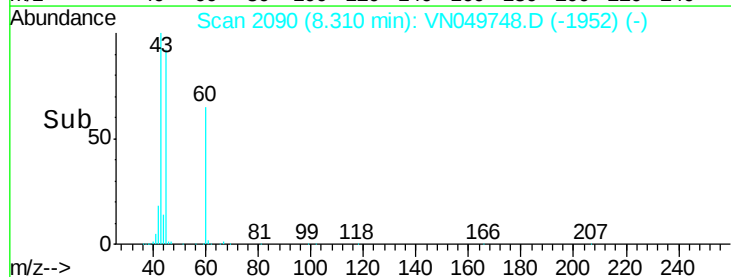
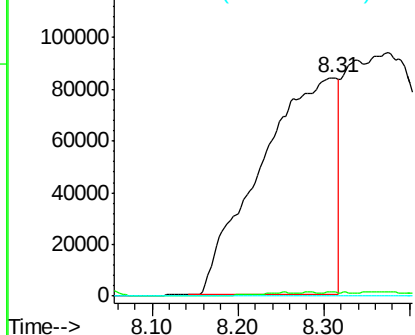


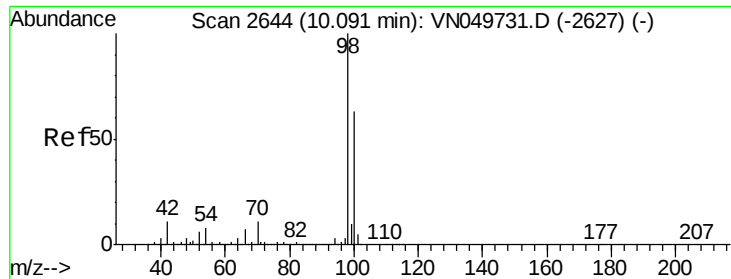
#43
Isopropyl Acetate
Concen: 15.29 ug/l
RT: 8.31 min Scan# 2090
Delta R.T. 0.14 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

Tgt Ion: 43 Resp: 516054
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

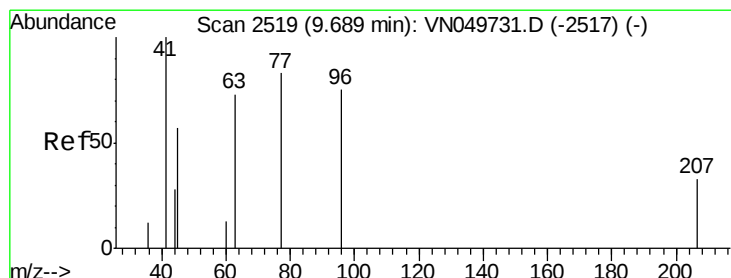
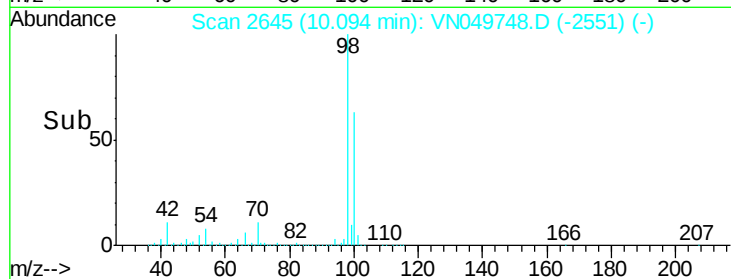
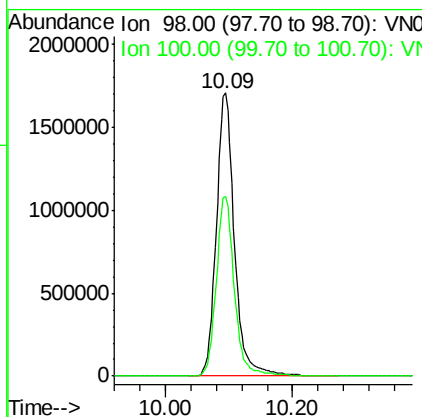
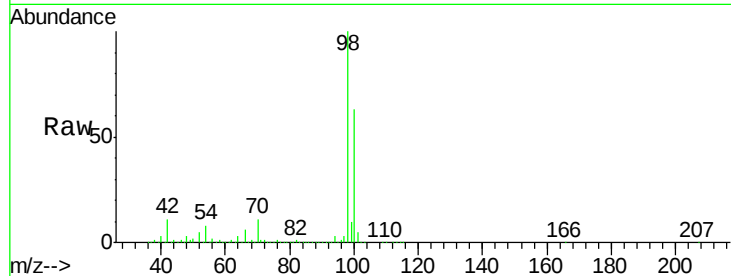




#50
Toluene-d8
Concen: 45.59 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

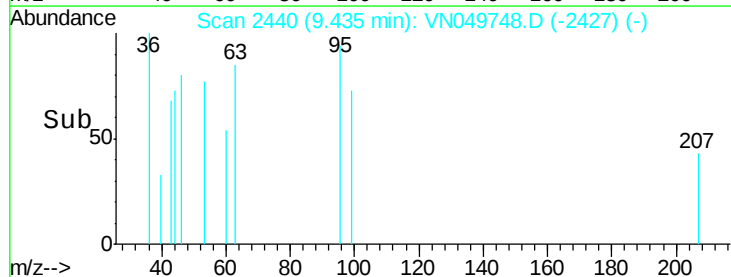
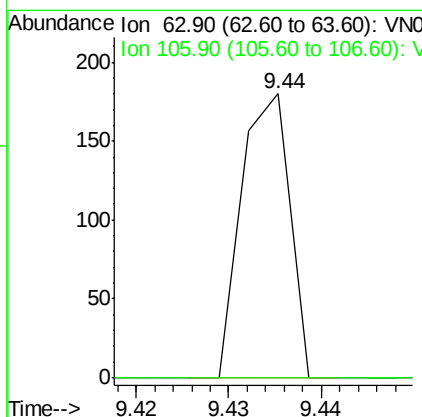
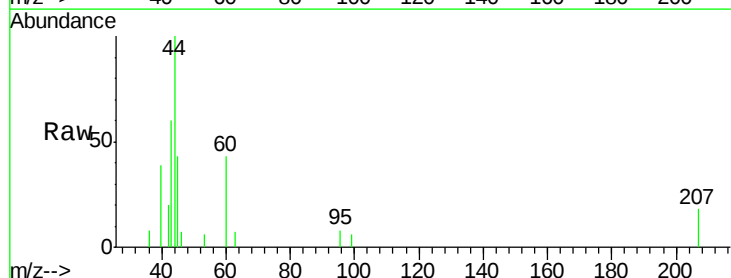
Instrument :
MSVOA_N
ClientSampleId :
TB-1

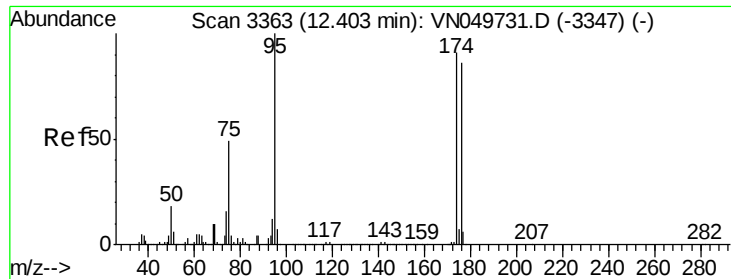
Tot Ion: 98 Resp: 3366254
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5



#58
2-Chloroethyl Vinyl ether
Concen: 10.83 ug/l
RT: 9.44 min Scan# 2440
Delta R.T. -0.26 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

Tgt Ion: 63 Resp: 65
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.8#

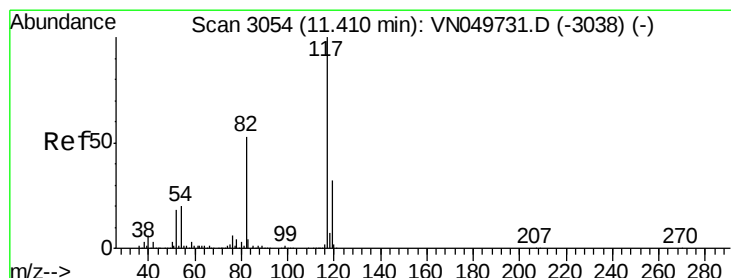
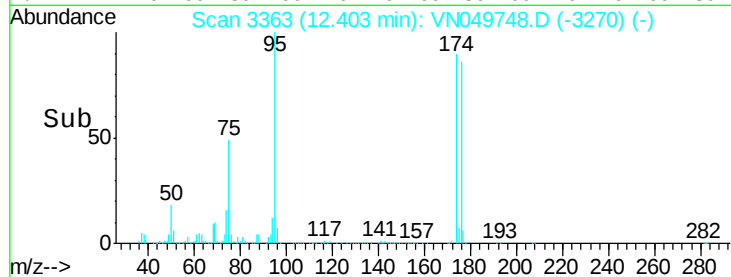
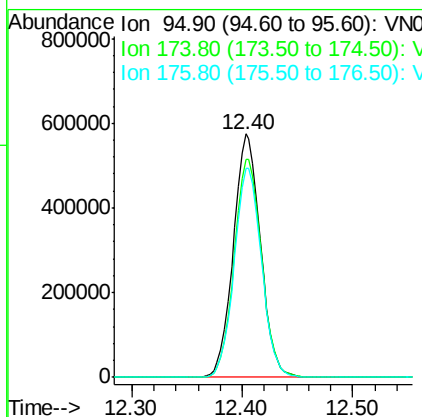
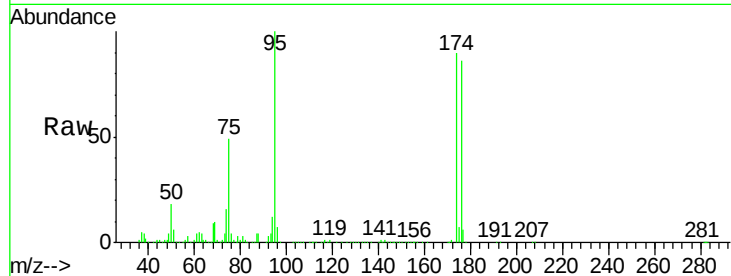




#62
4-Bromofluorobenzene
Concen: 38.72 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

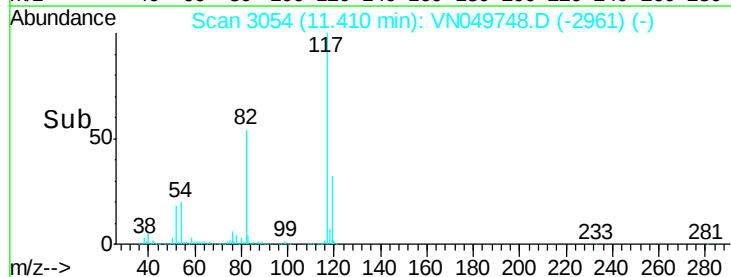
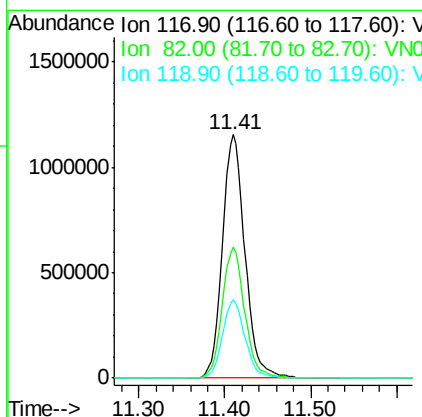
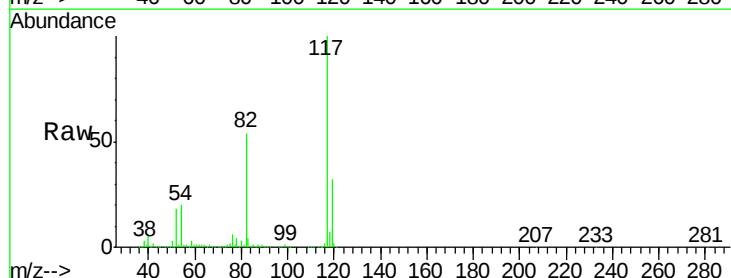
Instrument :
MSVOA_N
ClientSampleId :
TB-1

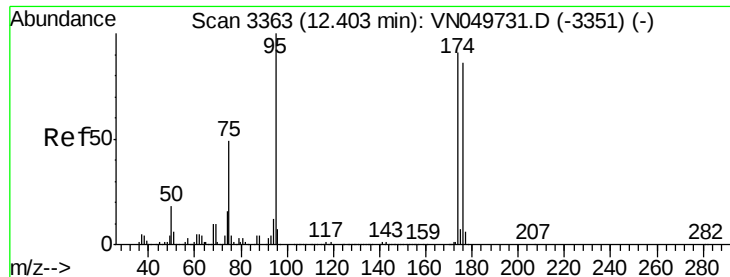
Tot Ion	95	Resp	976260
Ion Ratio	Lower	Upper	
95	100		
174	90.9	0.0	179.6
176	86.5	0.0	174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049748.D
Acq: 6 Jul 2018 19:13

Tgt Ion	117	Resp	2099172
Ion Ratio	Lower	Upper	
117	100		
82	53.6	41.9	62.9
119	32.1	25.4	38.2





#71

Bromoform

Concen: 0.30 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TB-1

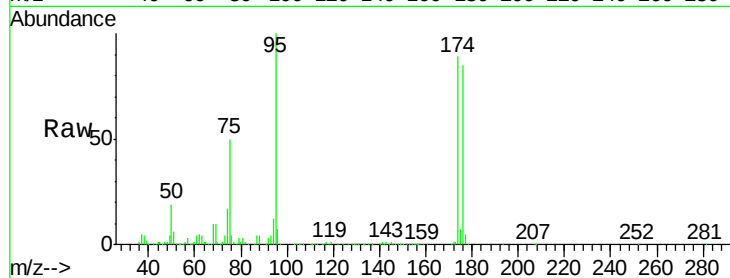
Tot Ion:173 Resp: 3975

Ion Ratio Lower Upper

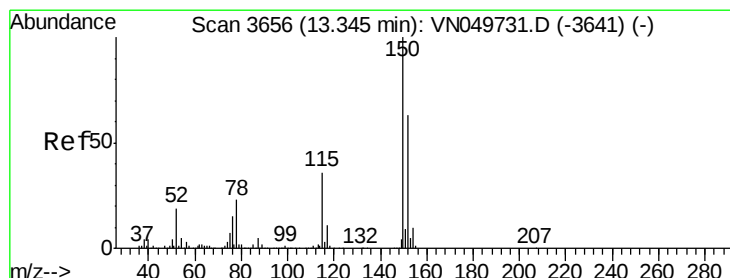
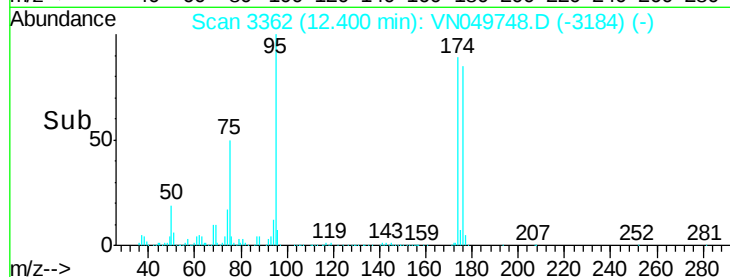
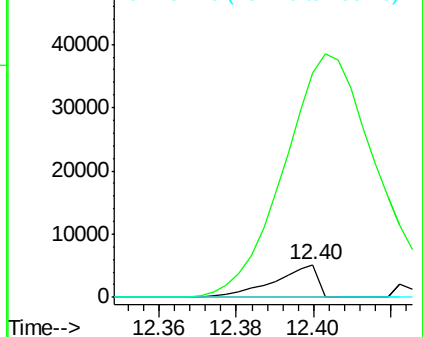
173 100

175 1286.2 24.6 73.8#

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: VN049748.D

Acq: 6 Jul 2018 19:13

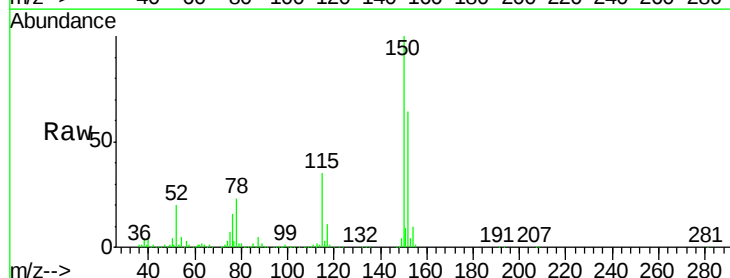
Tgt Ion:152 Resp: 746935

Ion Ratio Lower Upper

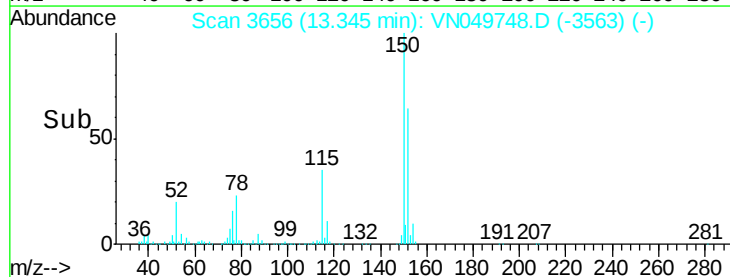
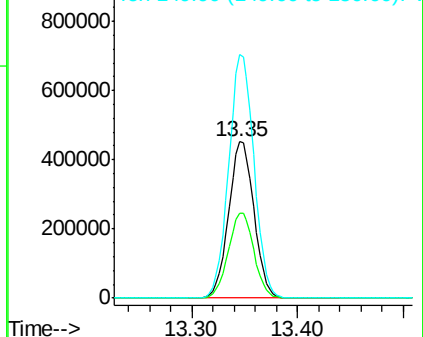
152 100

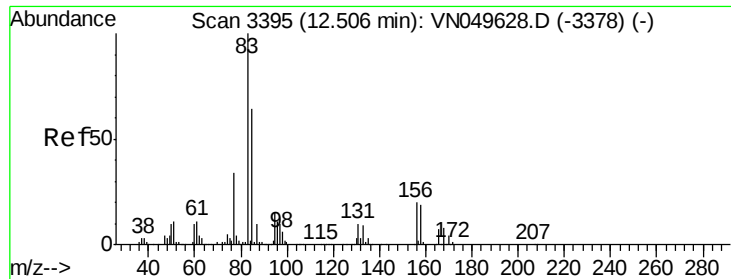
115 55.1 28.1 84.2

150 155.5 0.0 347.6



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: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampleId :

TB-1

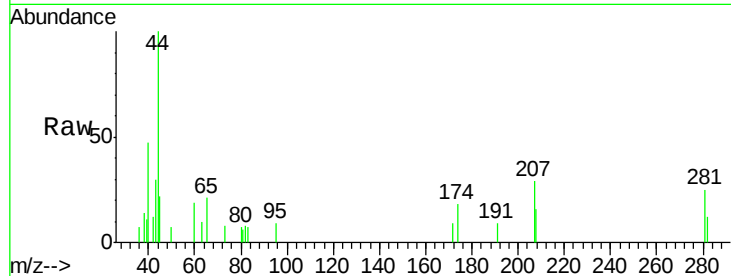
Tot Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

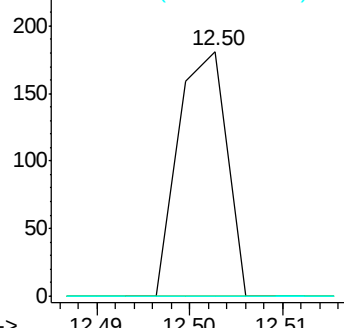
85 0.0 32.5 97.4#



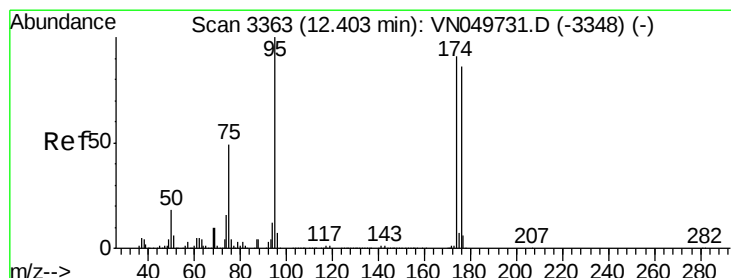
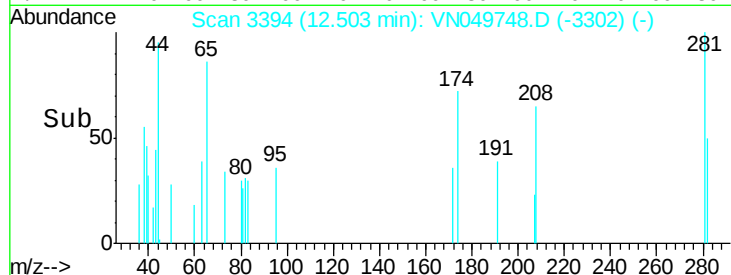
Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNC



Time-->



#76

1,2,3-Trichloropropane

Concen: 40.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049748.D

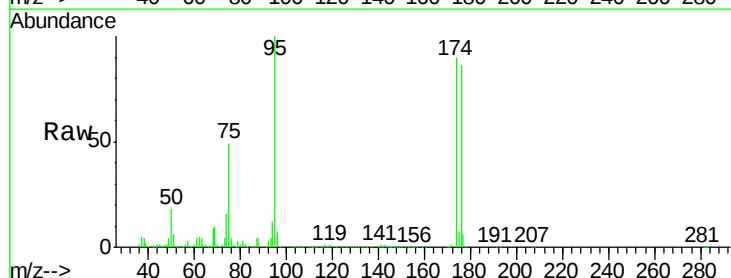
Acq: 6 Jul 2018 19:13

Tgt Ion: 75 Resp: 480649

Ion Ratio Lower Upper

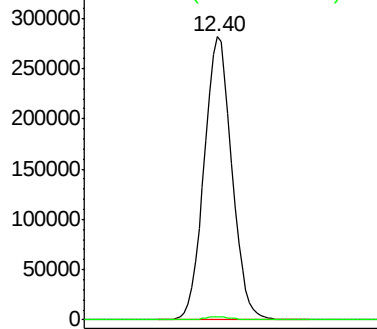
75 100

77 1.2 0.0 0.0#

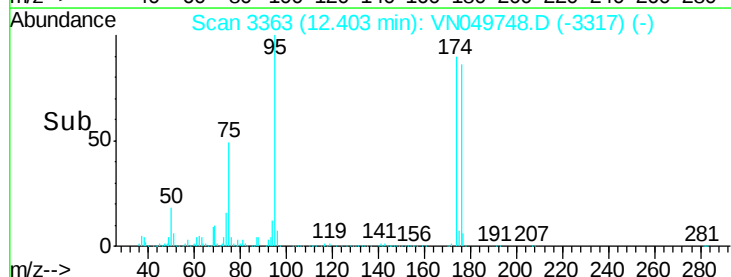


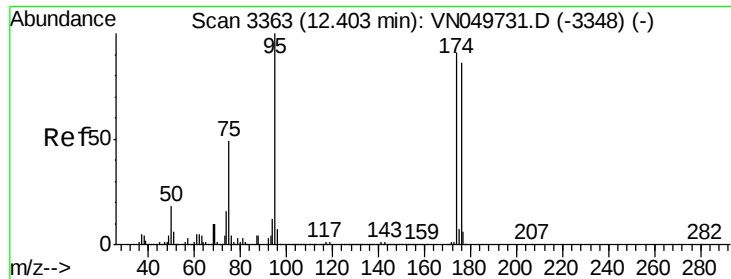
Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 136.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TB-1

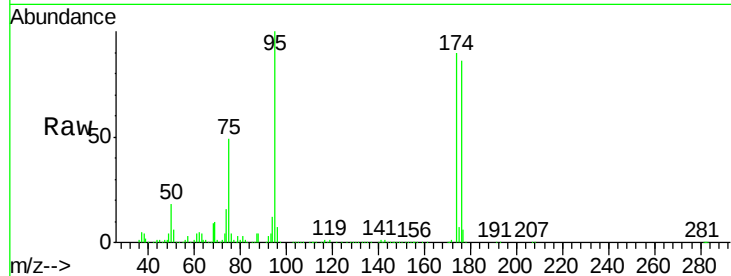
Tot Ion: 75 Resp: 480649

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

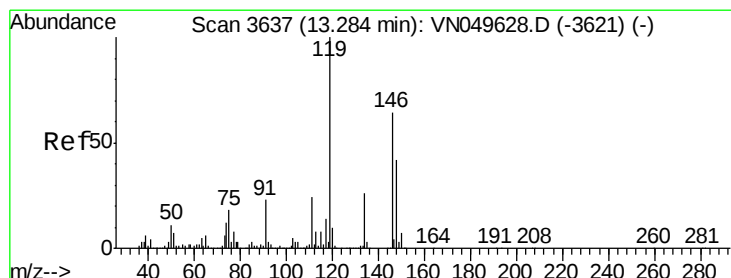
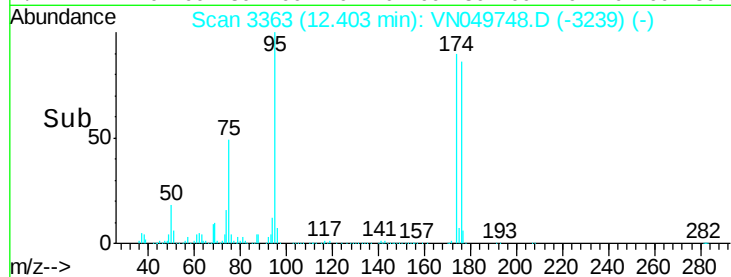
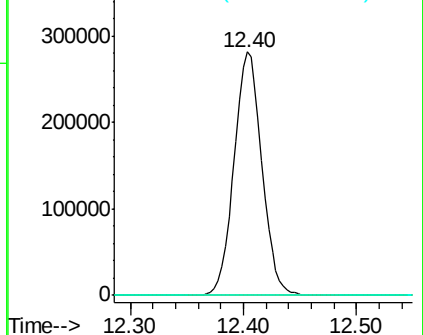
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049748.D (-3239) (-)

Ion 53.00 (52.70 to 53.70): VN049748.D (-3239) (-)

Ion 88.90 (88.60 to 89.60): VN049748.D (-3239) (-)



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.29 min Scan# 3639

Delta R.T. 0.01 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

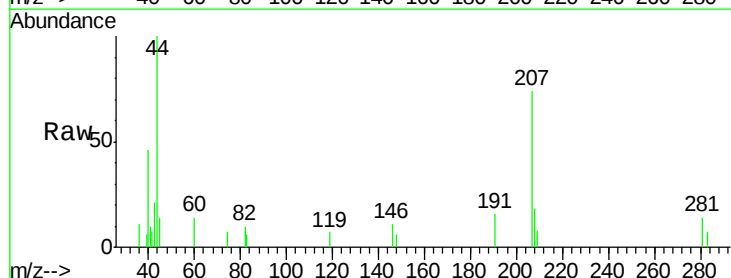
Tgt Ion: 146 Resp: 301

Ion Ratio Lower Upper

146 100

111 0.0 19.0 57.0#

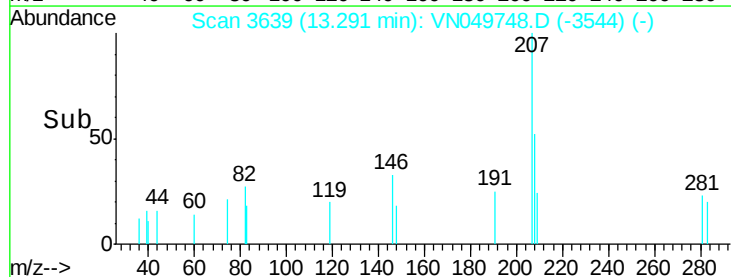
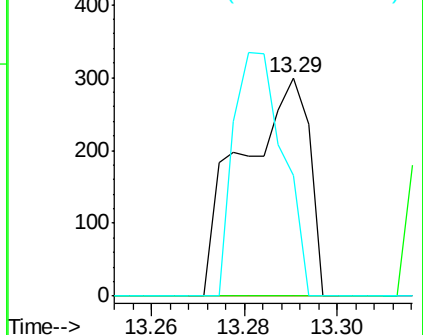
148 82.1 32.5 97.5

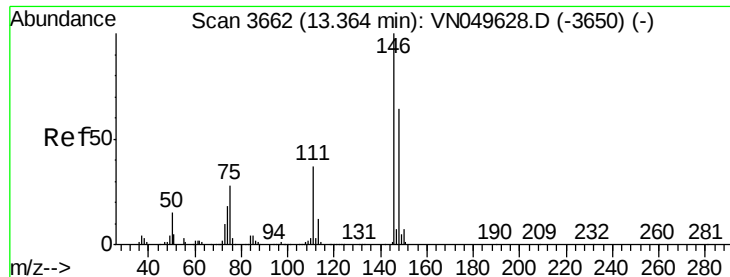


Abundance Ion 145.90 (145.60 to 146.60): VN049748.D (-3544) (-)

Ion 110.90 (110.60 to 111.60): VN049748.D (-3544) (-)

Ion 147.90 (147.60 to 148.60): VN049748.D (-3544) (-)

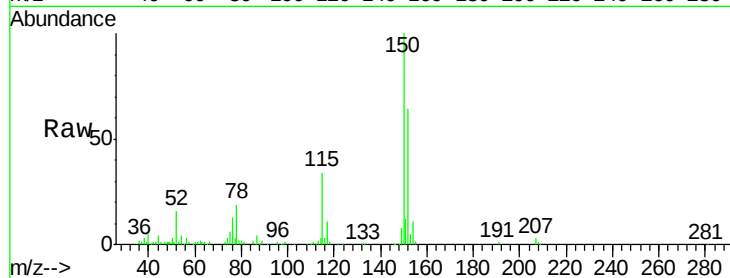




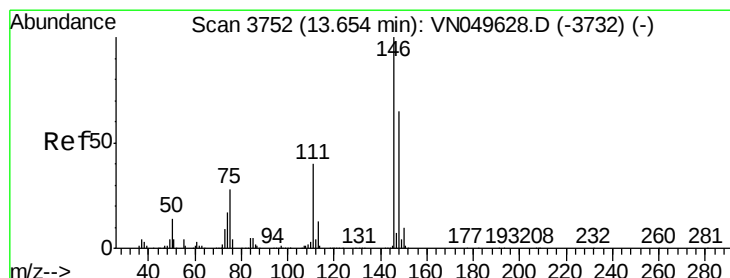
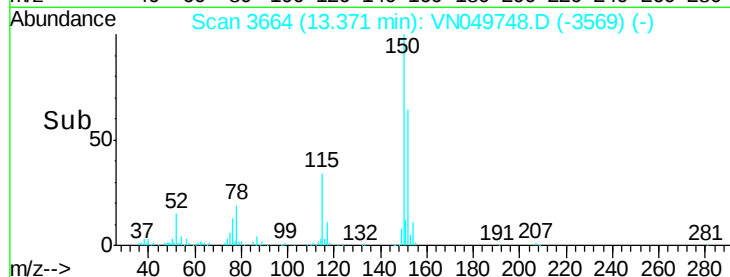
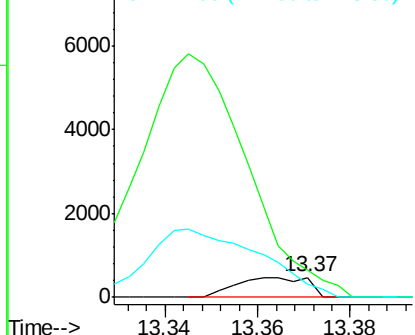
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.01 min
 Lab File: VN049748.D
 Acq: 6 Jul 2018 19:13

Instrument :
 MSVOA_N
 ClientSampled :
 TB-1

Tot Ion:146 Resp: 504
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.9 56.5#
 148 0.0 32.1 96.3#

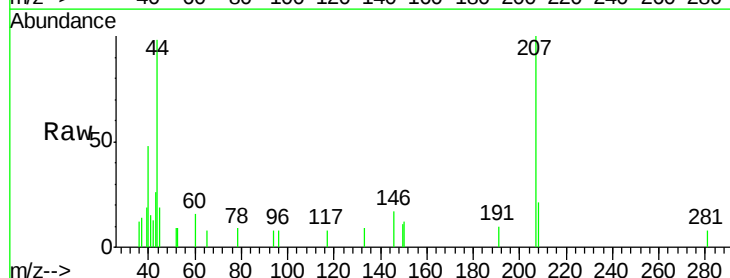


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

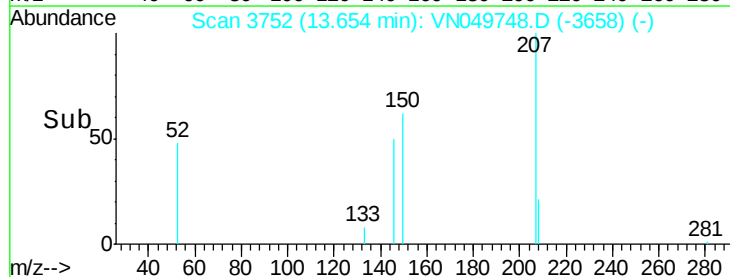
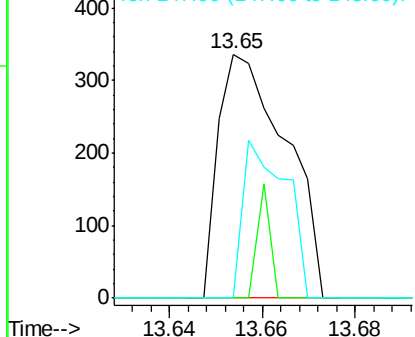


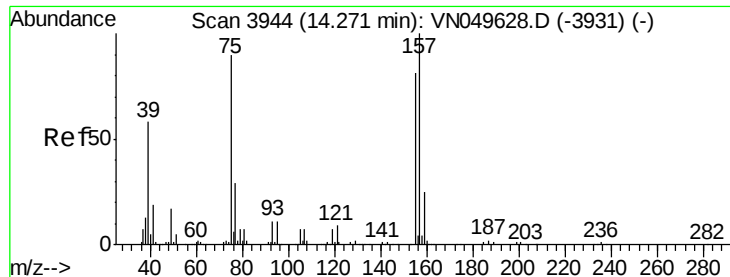
#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049748.D
 Acq: 6 Jul 2018 19:13

Tgt Ion:146 Resp: 341
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 41.1 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TB-1

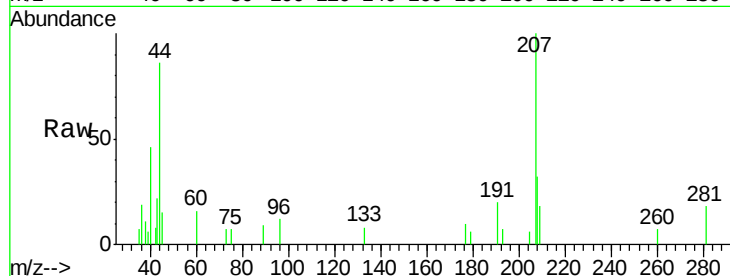
Tot Ion: 75 Resp: 163

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

157 0.0 56.9 170.7#



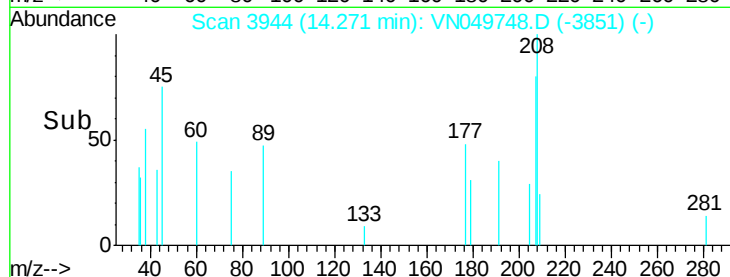
Abundance Ion 74.90 (74.60 to 75.60): VN049628.D (-3931) (-)

Ion 154.80 (154.50 to 155.50): VN049628.D (-3931) (-)

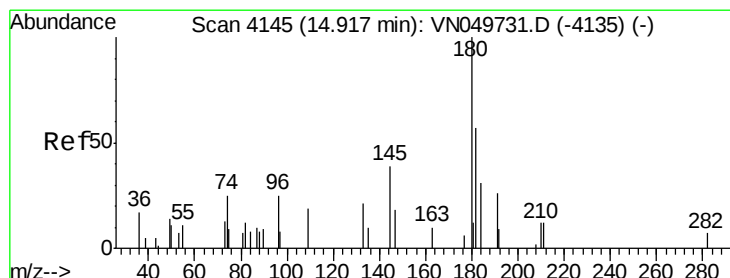
Ion 156.80 (156.50 to 157.50): VN049628.D (-3931) (-)

14.27

14.26 14.28



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.41 ug/l

RT: 14.92 min Scan# 4146

Delta R.T. 0.01 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

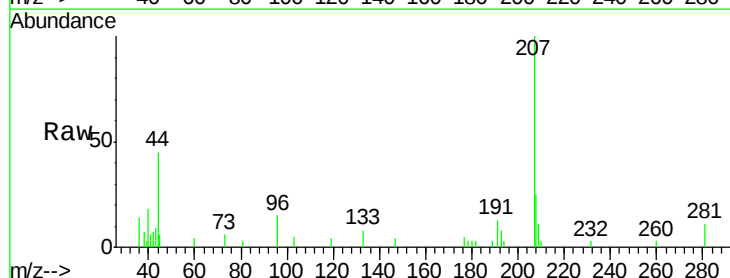
Tgt Ion: 180 Resp: 65

Ion Ratio Lower Upper

180 100

182 158.5 47.3 141.9#

145 0.0 14.4 43.0#



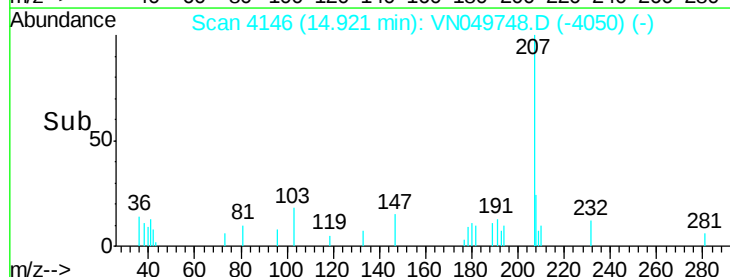
Abundance Ion 179.80 (179.50 to 180.50): VN049731.D (-4135) (-)

Ion 181.80 (181.50 to 182.50): VN049731.D (-4135) (-)

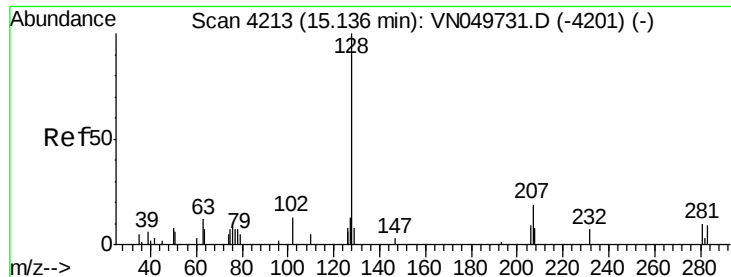
Ion 144.80 (144.50 to 145.50): VN049731.D (-4135) (-)

14.92

14.91 14.93



Time-->



#95

Naphthalene

Concen: 4.06 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

Instrument :

MSVOA_N

ClientSampled :

TB-1

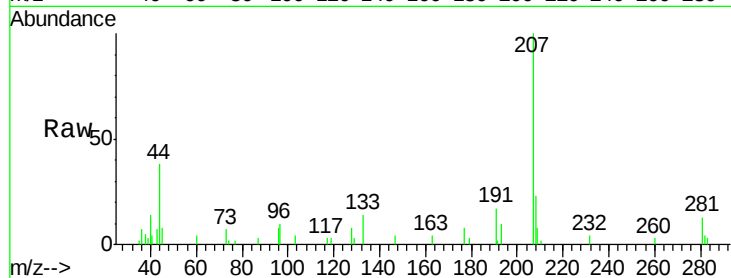
Tot Ion:128 Resp: 708

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

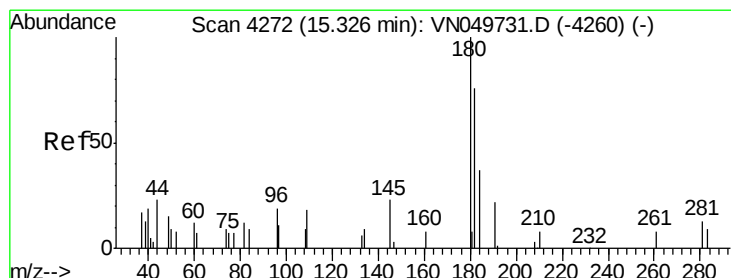
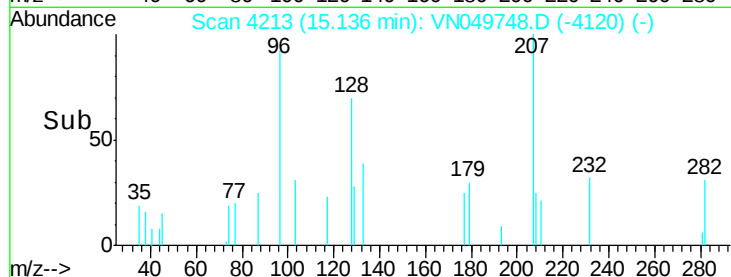
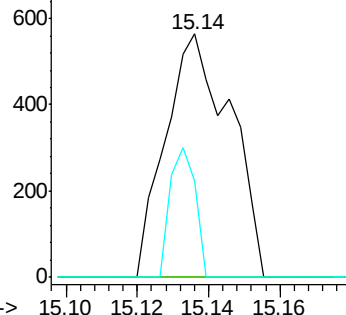
129 20.8 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.66 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.01 min

Lab File: VN049748.D

Acq: 6 Jul 2018 19:13

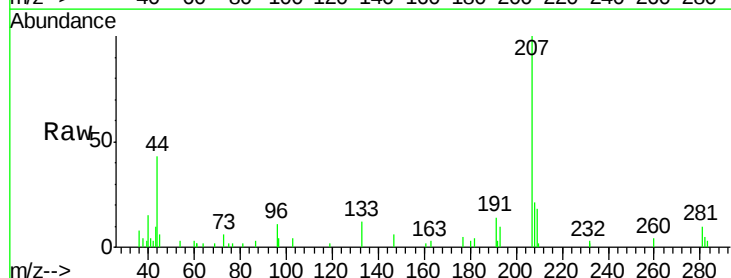
Tgt Ion:180 Resp: 115

Ion Ratio Lower Upper

180 100

182 167.8 47.4 142.2#

145 0.0 15.2 45.6#



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

