

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030619\
 Data File : VN054120.D
 Acq On : 6 Mar 2019 16:53
 Operator : JC/SP
 Sample : VN0306WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBL01

Quant Time: Mar 07 06:38:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 06:25:49 2019
 Response via : Initial Calibration

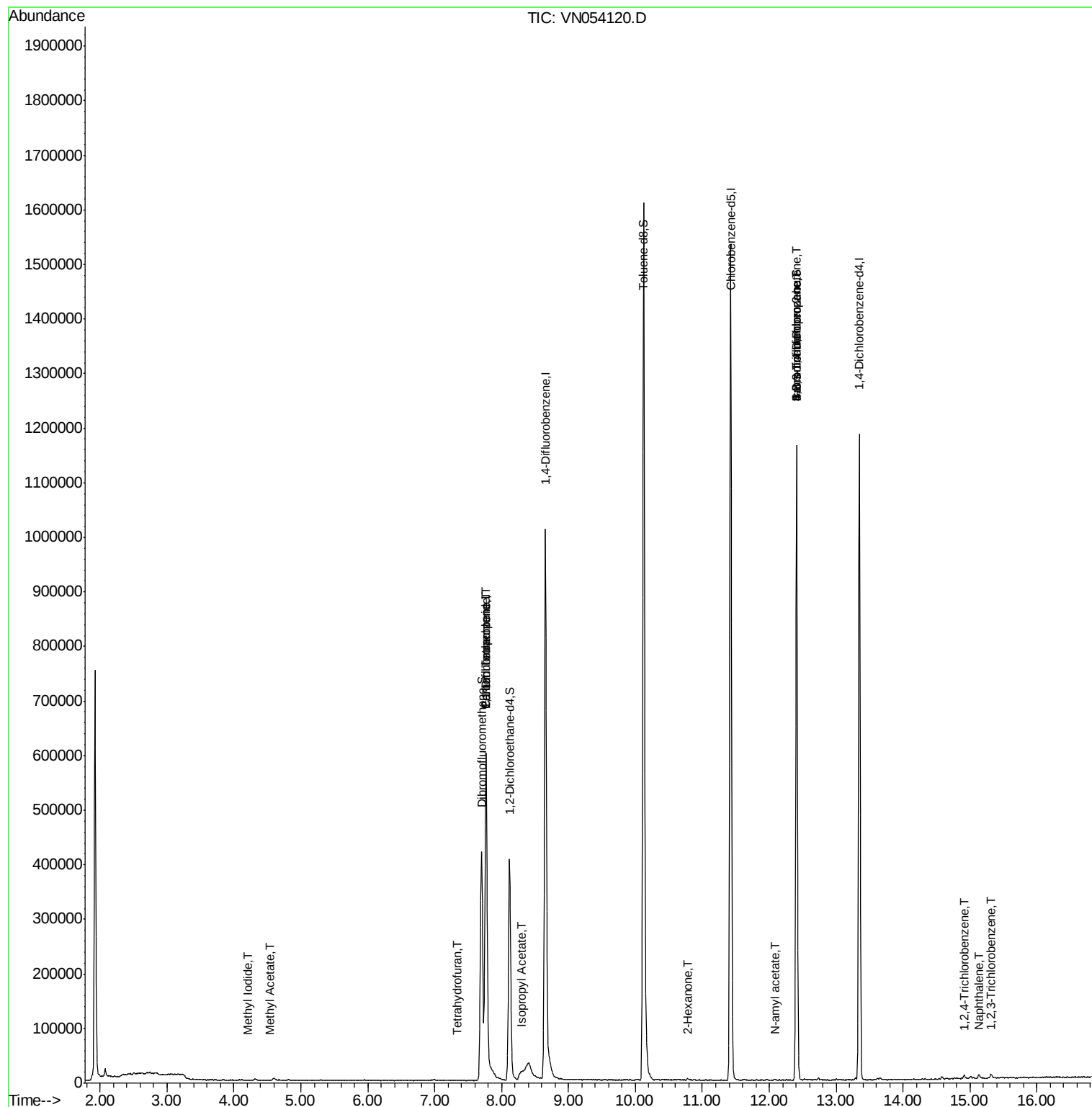
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.77	168	556687	50.00	ug/l	0.10
34) 1,4-Difluorobenzene	8.65	114	986028	50.00	ug/l	0.07
63) Chlorobenzene-d5	11.42	117	935459	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.35	152	327480	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.12	65	346197	51.78	ug/l	0.09
Spiked Amount 50.000			Recovery	=	103.56%	
35) Dibromofluoromethane	7.70	113	317277	49.54	ug/l	0.11
Spiked Amount 50.000			Recovery	=	99.08%	
50) Toluene-d8	10.12	98	1231480	50.64	ug/l	0.04
Spiked Amount 50.000			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.41	95	403063	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.31	50	827	Below Cal		99
5) Bromomethane	2.62	94	73	Below Cal	#	3
10) Methyl Iodide	4.21	142	135	3.184 ug/l	#	43
17) Carbon Disulfide	4.32	76	4665	Below Cal		98
18) Methyl Acetate	4.54	43	185	0.309 ug/l	#	53
20) Methylene Chloride	4.81	84	392	Below Cal	#	42
29) Tetrahydrofuran	7.34	42	416	0.232 ug/l	#	36
31) Cyclohexane	7.76	56	9753	Below Cal	#	1
36) 1,1-Dichloropropene	7.77	75	36812	3.977 ug/l	#	49
38) Carbon Tetrachloride	7.77	117	48424	5.481 ug/l	#	16
43) Isopropyl Acetate	8.29	43	16074	2.980 ug/l	#	53
59) 2-Hexanone	10.79	43	2268	0.582 ug/l		99
71) Bromoform	12.41	173	1710	0.357 ug/l	#	1
74) N-amyl acetate	12.08	43	1982	0.287 ug/l	#	61
75) 1,1,2,2-Tetrachloroethane	12.51	83	244	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.41	75	192733	34.534 ug/l	#	100
77) Bromobenzene	12.53	156	477	Below Cal		83
81) trans-1,4-Dichloro-2-buten	12.41	75	192733	118.595 ug/l	#	11
91) 1,2-Dichlorobenzene	13.66	146	1521	Below Cal		92
93) 1,2,4-Trichlorobenzene	14.91	180	2452	0.452 ug/l		96
94) Hexachlorobutadiene	15.01	225	519	Below Cal		95
95) Naphthalene	15.13	128	6908	5.123 ug/l		98
96) 1,2,3-Trichlorobenzene	15.32	180	3310	2.999 ug/l		94

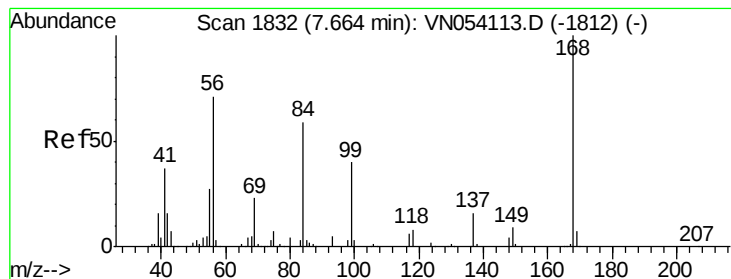
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Mar 07 06:25:49 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. 0.10 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampled :

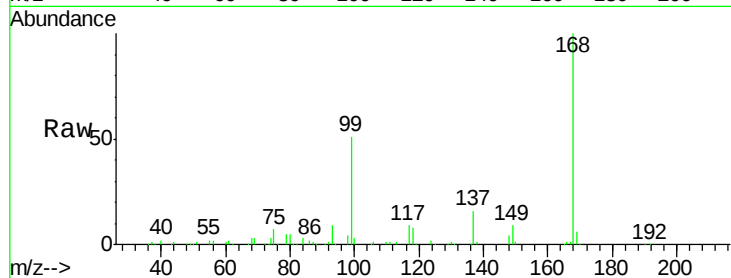
VN0306WBL01

Tgt Ion:168 Resp: 556687

Ion Ratio Lower Upper

168 100

99 51.2 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.77

250000

200000

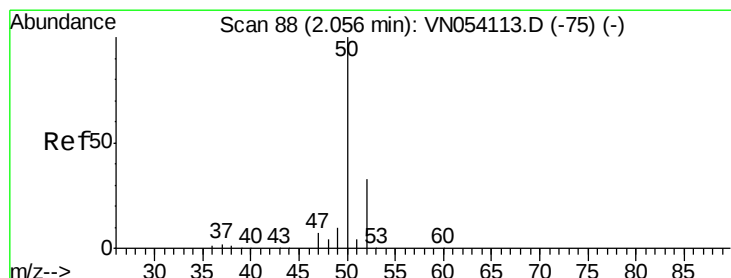
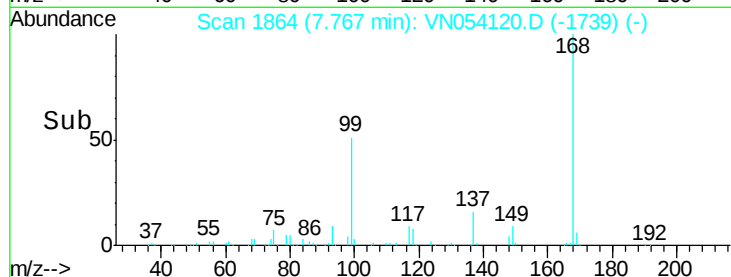
150000

100000

50000

0

Time--> 7.60 7.70 7.80 7.90 8.00



#3

Chloromethane

Concen: Below Cal

RT: 2.31 min Scan# 168

Delta R.T. 0.26 min

Lab File: VN054120.D

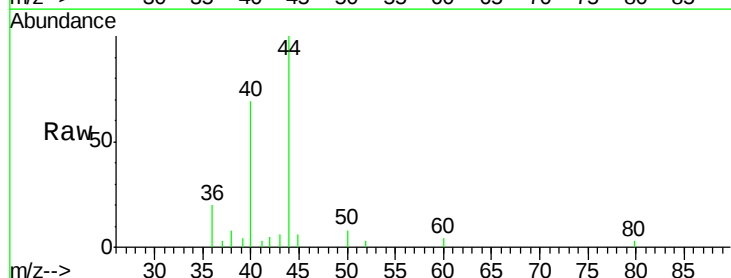
Acq: 6 Mar 2019 16:53

Tgt Ion: 50 Resp: 827

Ion Ratio Lower Upper

50 100

52 32.0 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.31

500

400

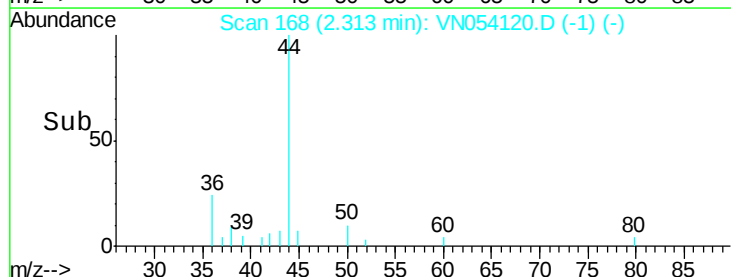
300

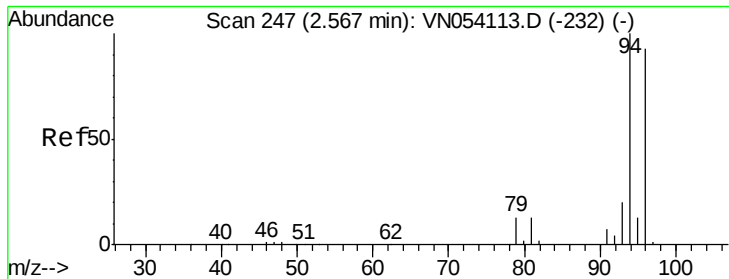
200

100

0

Time--> 2.30 2.35





#5

Bromomethane

Concen: Below Cal

RT: 2.62 min Scan# 263

Delta R.T. 0.05 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

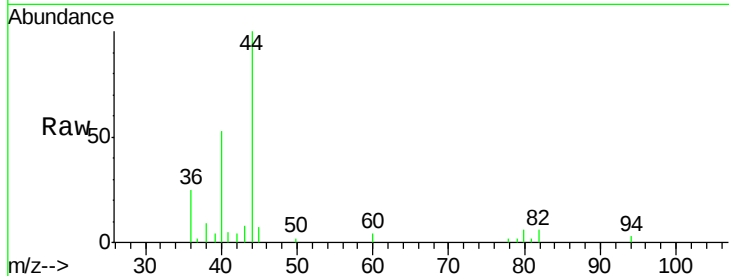
VN0306WBL01

Tgt Ion: 94 Resp: 73

Ion Ratio Lower Upper

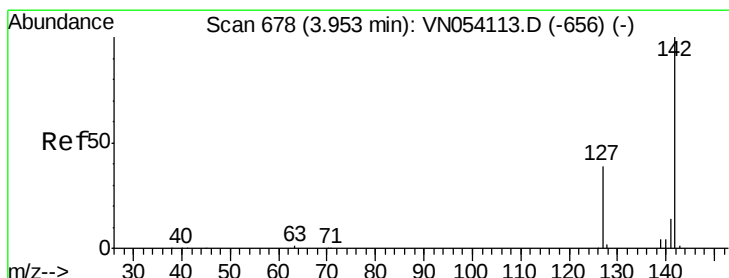
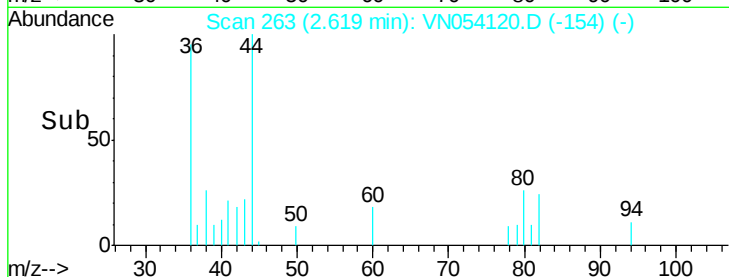
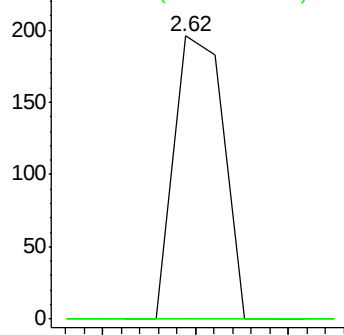
94 100

96 0.0 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 3.184 ug/l

RT: 4.21 min Scan# 758

Delta R.T. 0.26 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

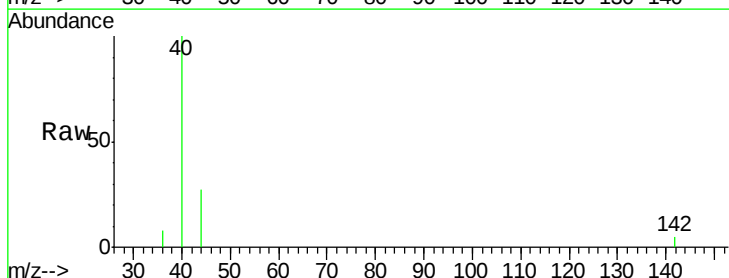
Tgt Ion: 142 Resp: 135

Ion Ratio Lower Upper

142 100

127 0.0 31.9 47.9#

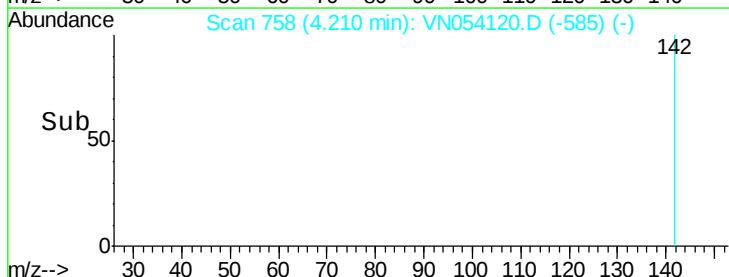
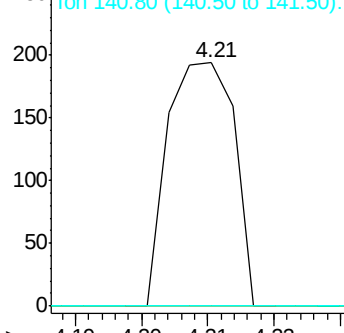
141 0.0 11.4 17.0#

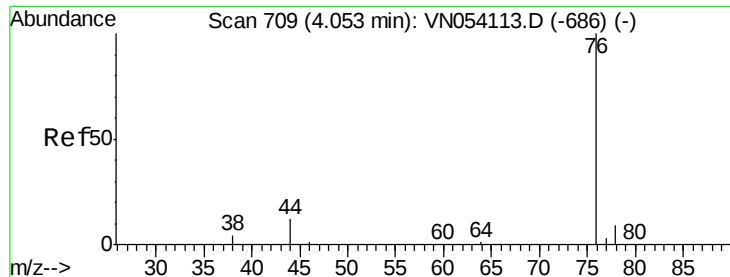


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.32 min Scan# 791

Delta R.T. 0.26 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

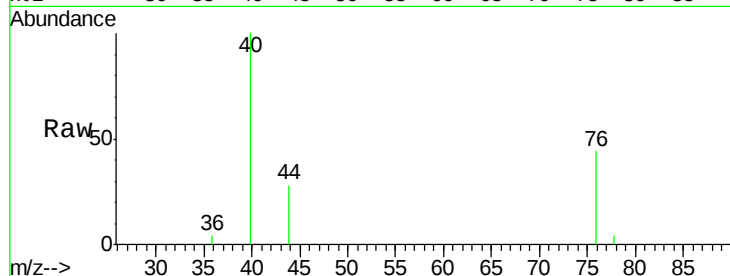
VN0306WBL01

Tgt Ion: 76 Resp: 4665

Ion Ratio Lower Upper

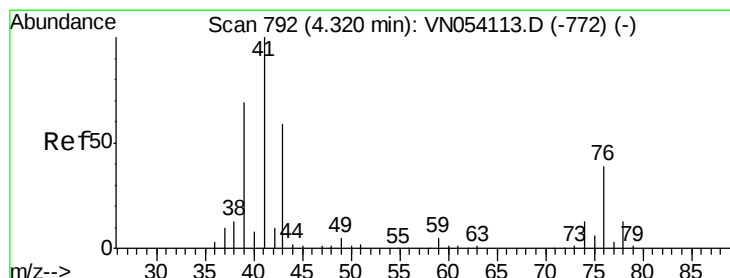
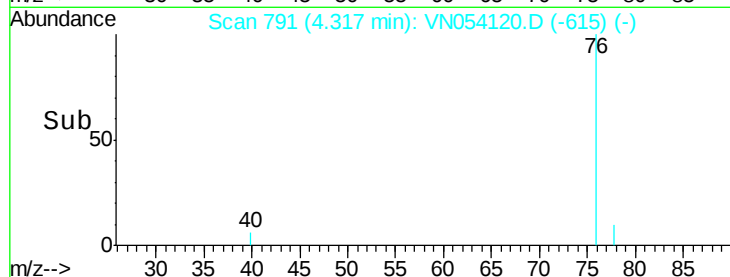
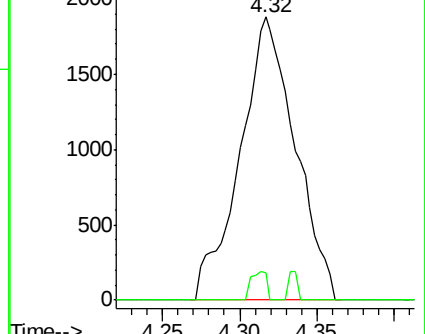
76 100

78 9.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.309 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.22 min

Lab File: VN054120.D

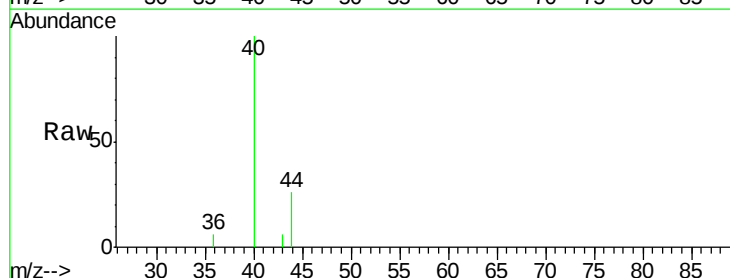
Acq: 6 Mar 2019 16:53

Tgt Ion: 43 Resp: 185

Ion Ratio Lower Upper

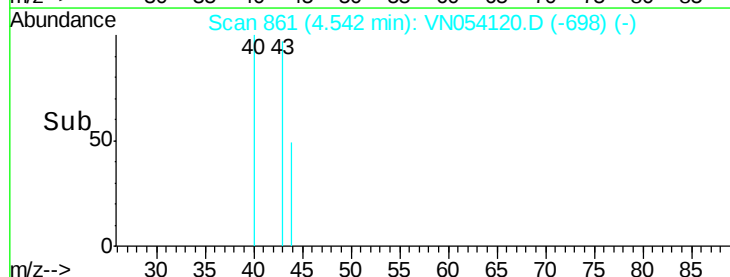
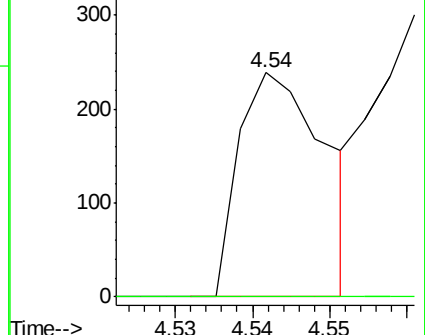
43 100

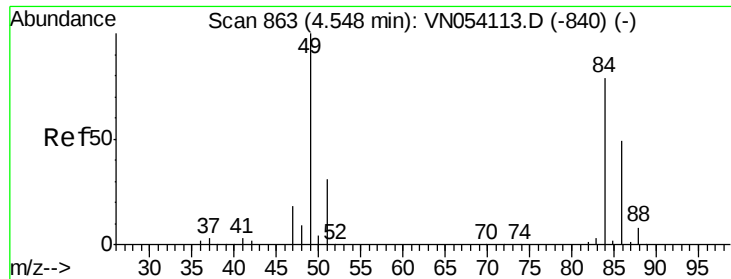
74 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

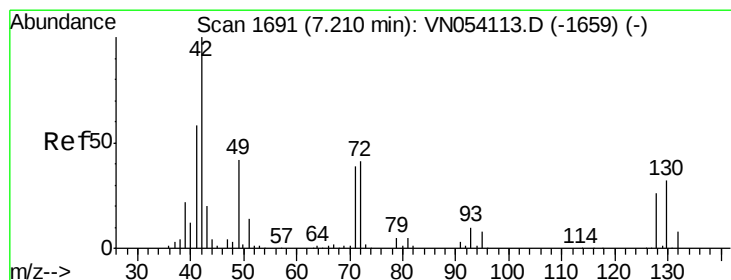
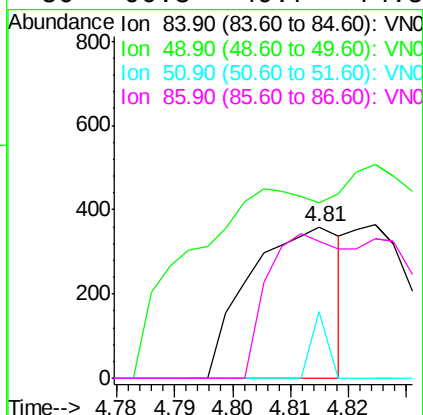
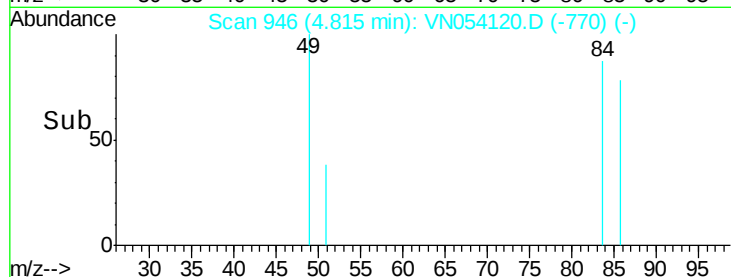
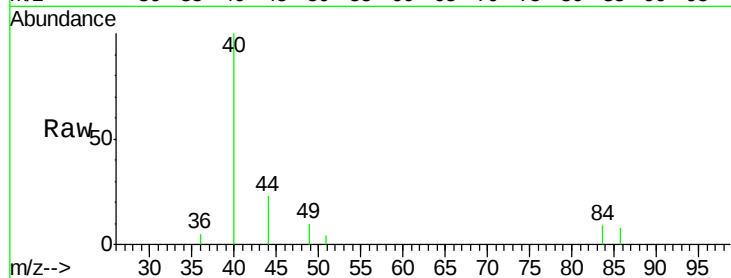




#20
Methylene Chloride
Concen: Below Cal
RT: 4.81 min Scan# 946
Delta R.T. 0.27 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

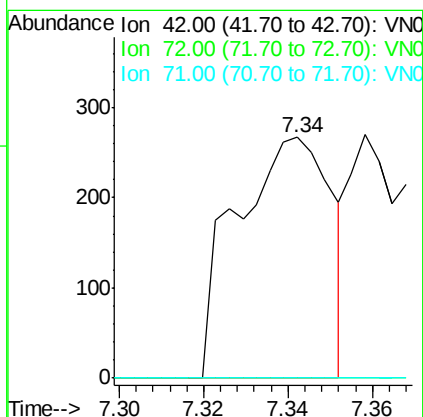
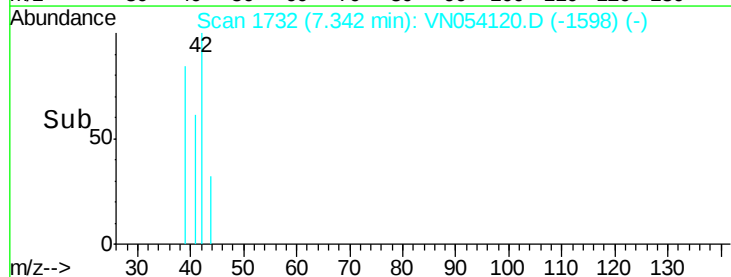
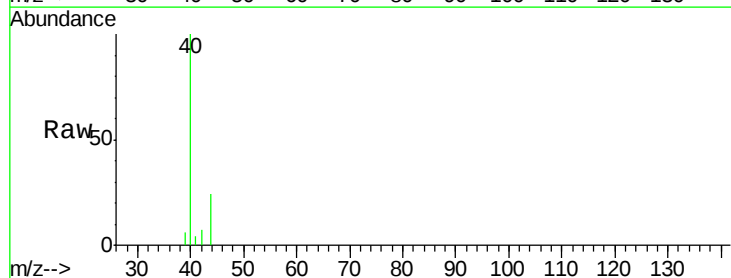
Instrument :
MSVOA_N
ClientSampleId :
VN0306WBL01

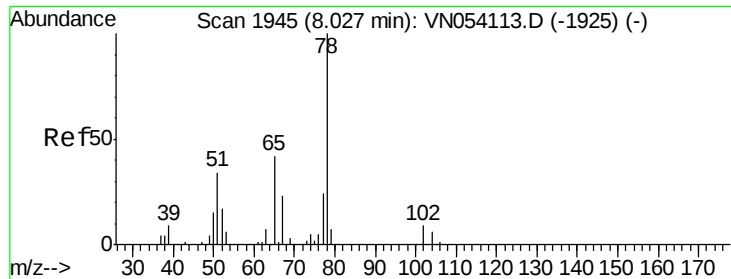
Tgt Ion: 84 Resp: 392
Ion Ratio Lower Upper
84 100
49 30.8 101.8 152.8#
51 44.2 31.1 46.7
86 90.3 49.7 74.5#



#29
Tetrahydrofuran
Concen: 0.232 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. 0.13 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

Tgt Ion: 42 Resp: 416
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 30.5 45.7#

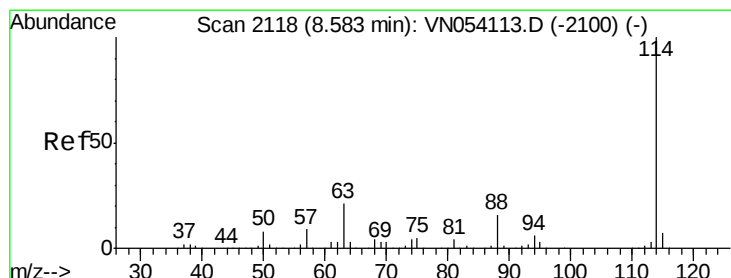
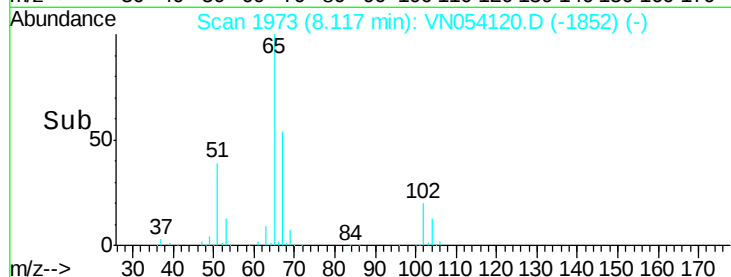
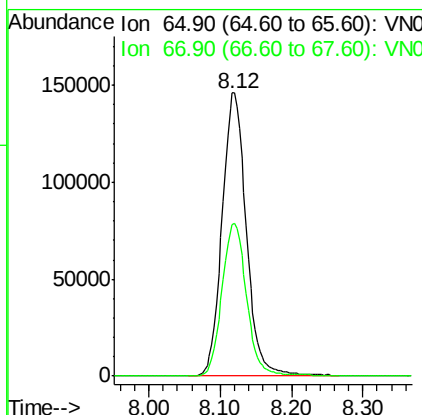
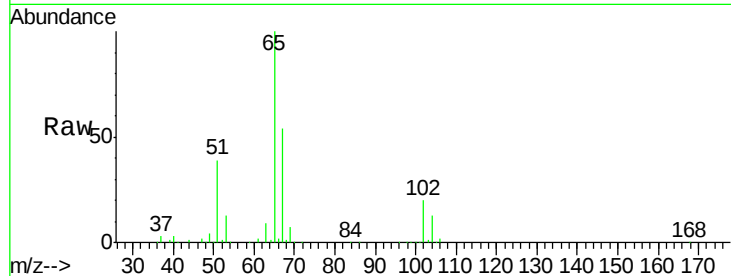




#33
 1,2-Dichloroethane-d4
 Concen: 51.782 ug/l
 RT: 8.12 min Scan# 1973
 Delta R.T. 0.09 min
 Lab File: VN054120.D
 Acq: 6 Mar 2019 16:53

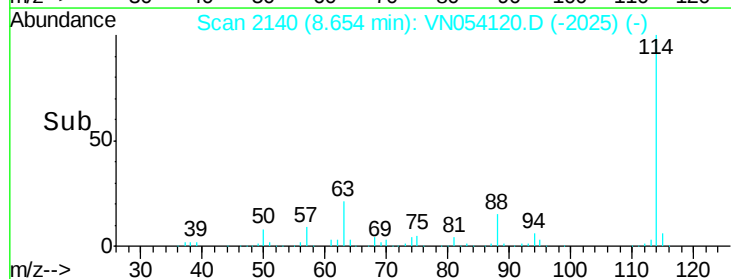
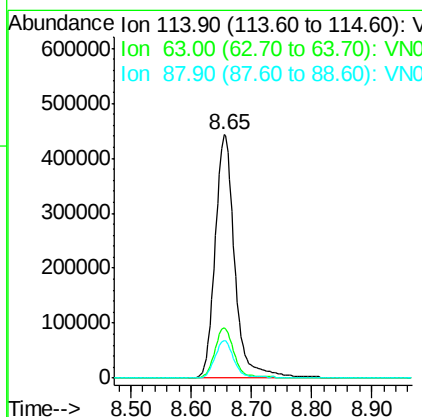
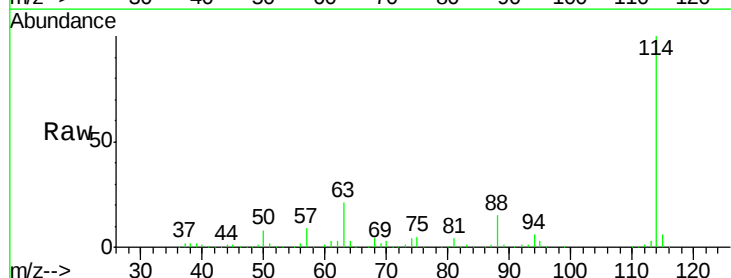
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBL01

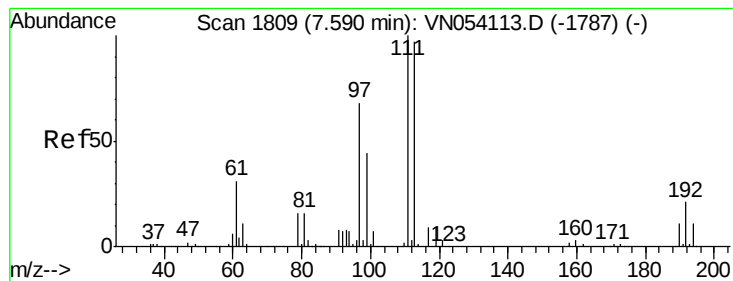
Tgt Ion: 65 Resp: 346197
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.65 min Scan# 2140
 Delta R.T. 0.07 min
 Lab File: VN054120.D
 Acq: 6 Mar 2019 16:53

Tgt Ion: 114 Resp: 986028
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.6
 88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 7.70 min Scan# 1844

Delta R.T. 0.11 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBL01

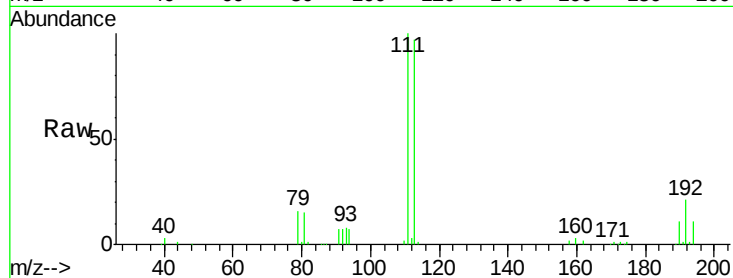
Tgt Ion:113 Resp: 317277

Ion Ratio Lower Upper

113 100

111 103.5 82.1 123.1

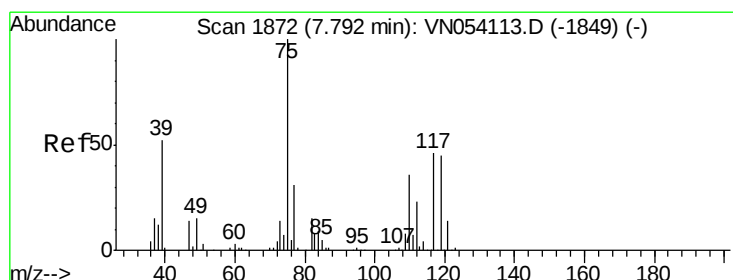
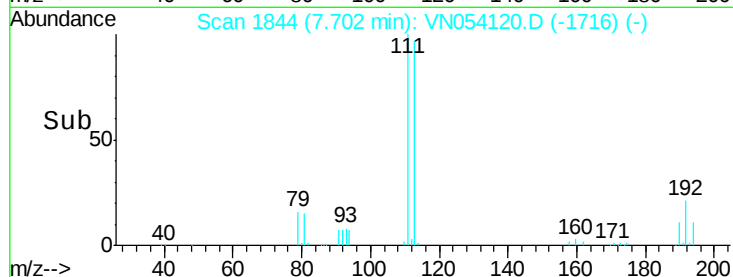
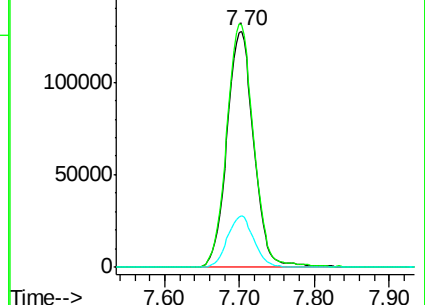
192 21.4 17.4 26.0



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: 3.977 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. -0.03 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

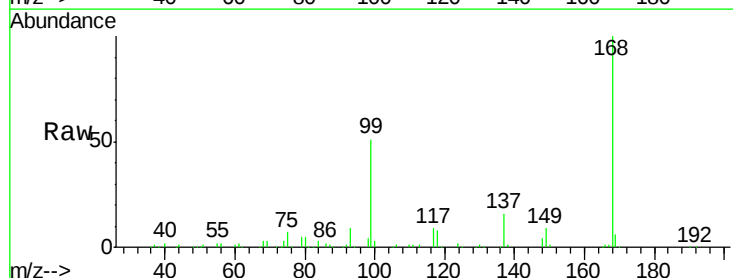
Tgt Ion: 75 Resp: 36812

Ion Ratio Lower Upper

75 100

110 8.8 18.0 54.0#

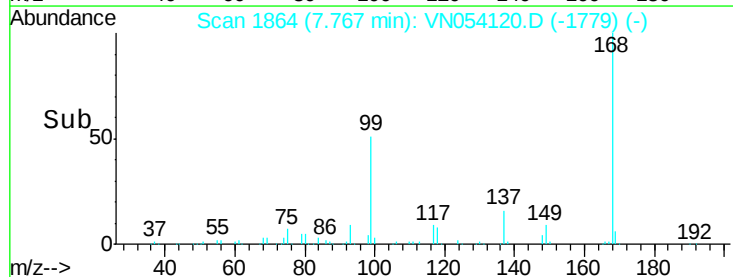
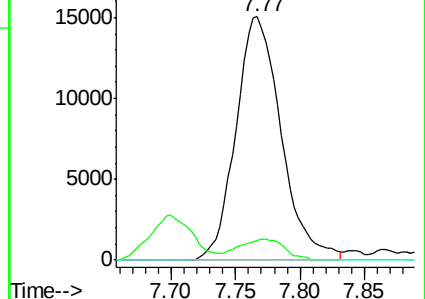
77 0.0 25.3 37.9#

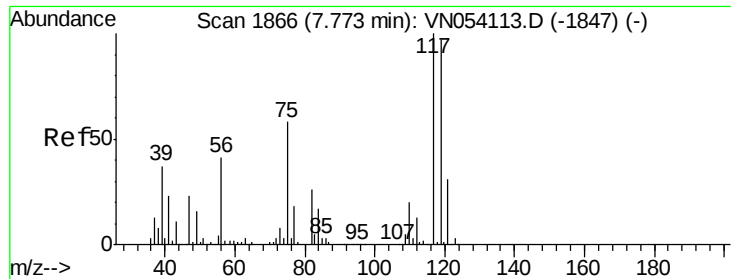


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

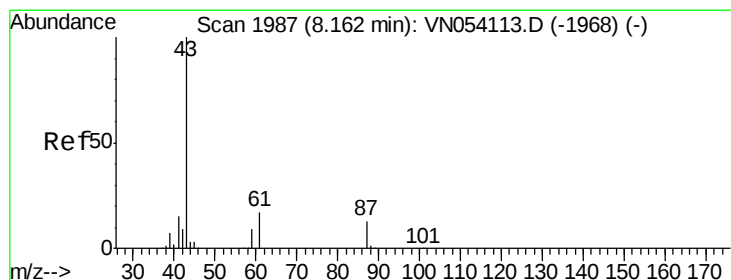
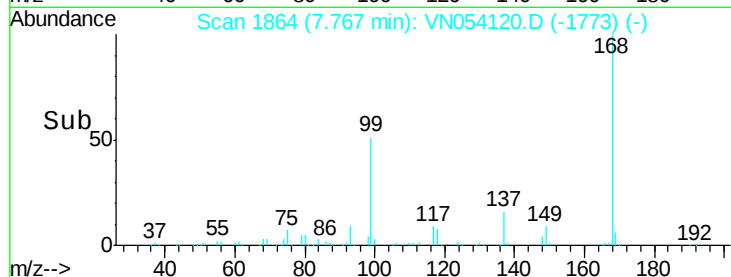
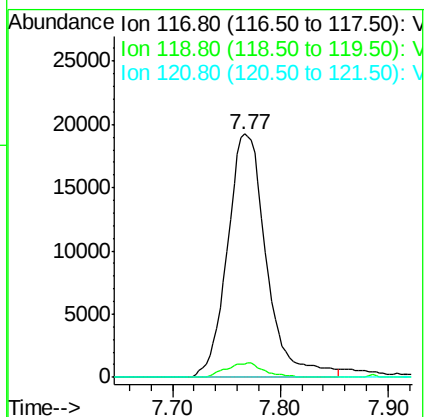
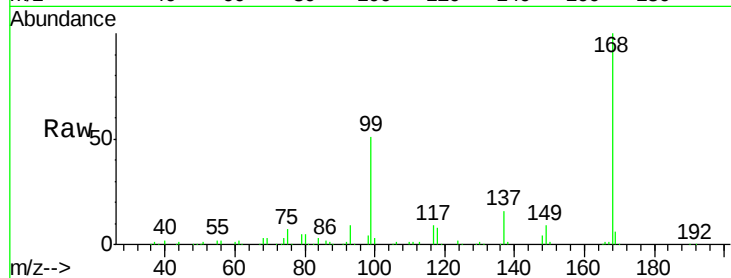




#38
Carbon Tetrachloride
Concen: 5.481 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

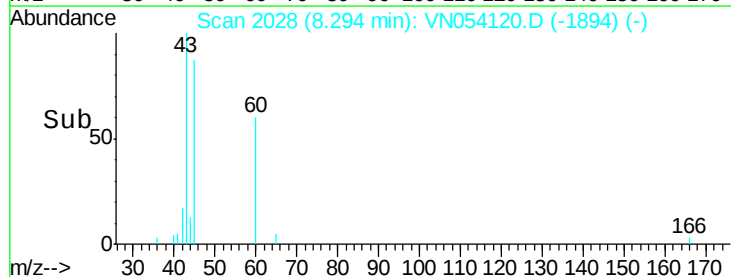
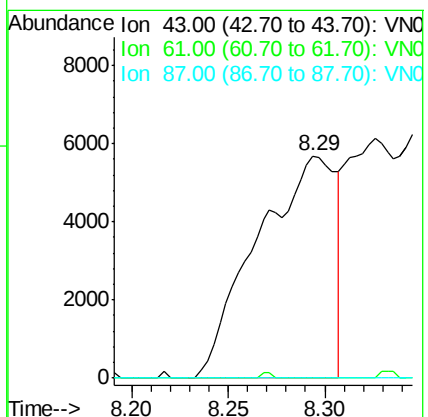
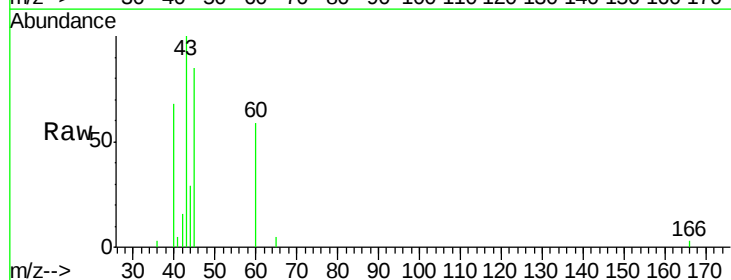
Instrument :
MSVOA_N
ClientSampled :
VN0306WBL01

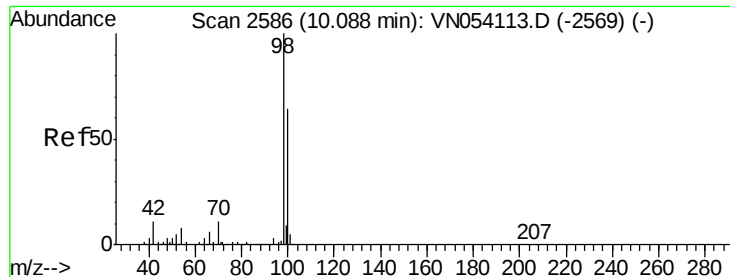
Tgt Ion:117 Resp: 48424
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.6#
121 0.0 24.3 36.5#



#43
Isopropyl Acetate
Concen: 2.980 ug/l
RT: 8.29 min Scan# 2028
Delta R.T. 0.13 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

Tgt Ion: 43 Resp: 16074
Ion Ratio Lower Upper
43 100
61 0.0 22.5 33.7#
87 0.0 10.1 15.1#





#50

Toluene-d8

Concen: 50.639 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.04 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

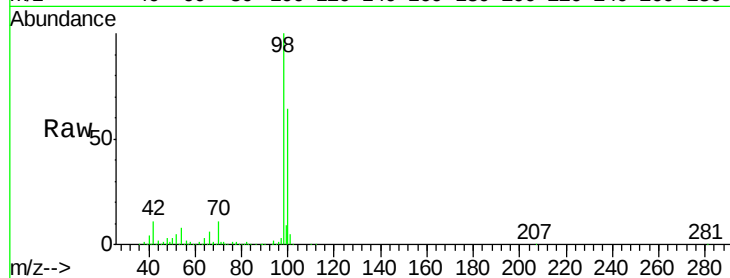
VN0306WBL01

Tgt Ion: 98 Resp: 1231480

Ion Ratio Lower Upper

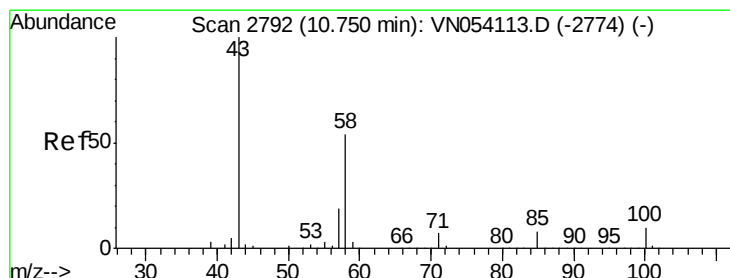
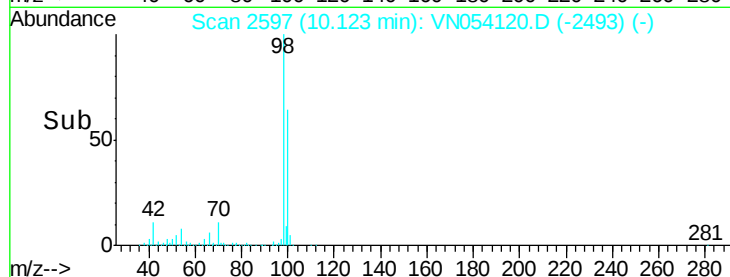
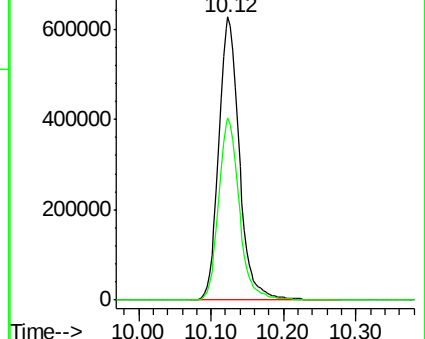
98 100

100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 0.582 ug/l

RT: 10.79 min Scan# 2804

Delta R.T. 0.04 min

Lab File: VN054120.D

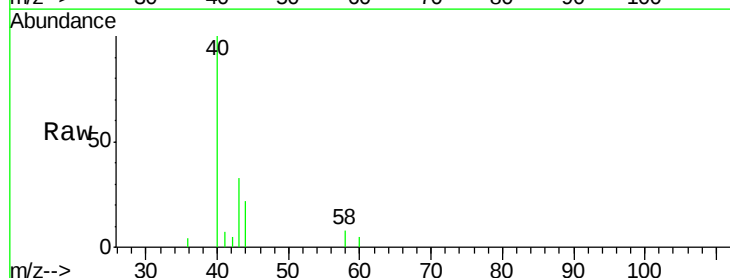
Acq: 6 Mar 2019 16:53

Tgt Ion: 43 Resp: 2268

Ion Ratio Lower Upper

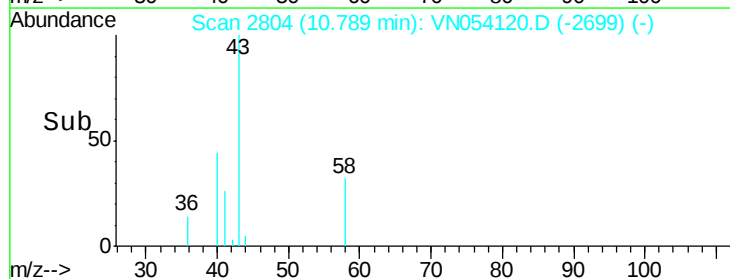
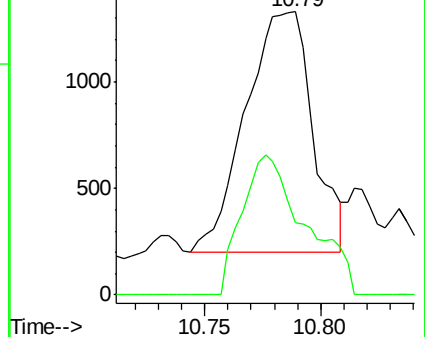
43 100

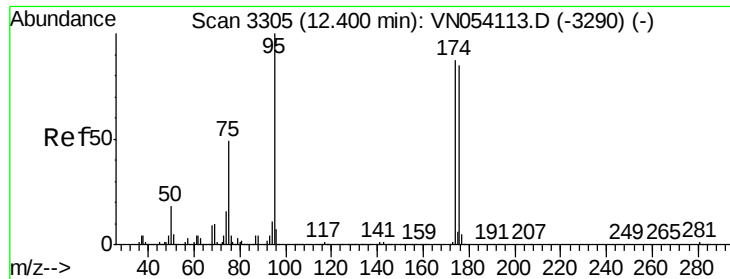
58 55.0 27.0 81.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

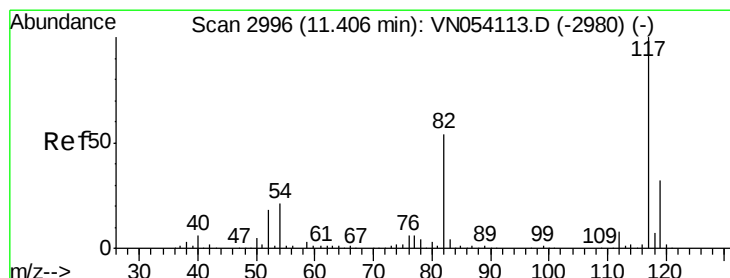
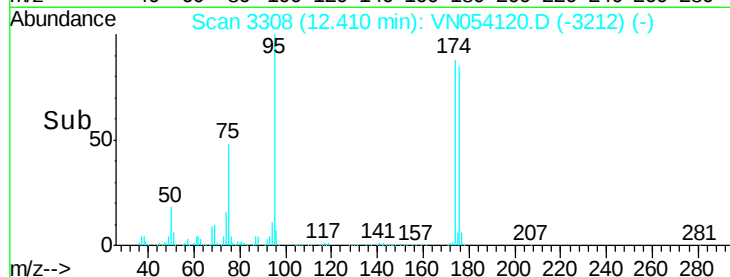
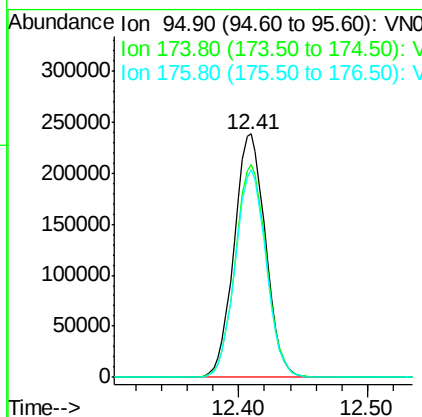
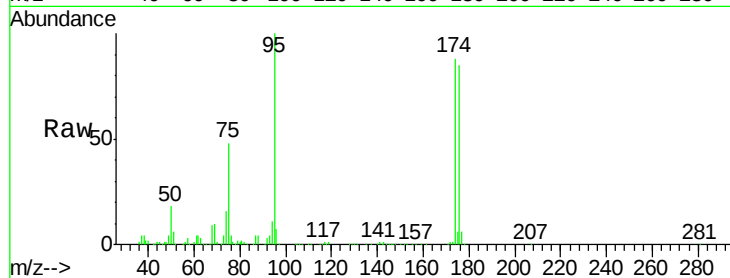




#62
4-Bromofluorobenzene
Concen: 50.908 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.01 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

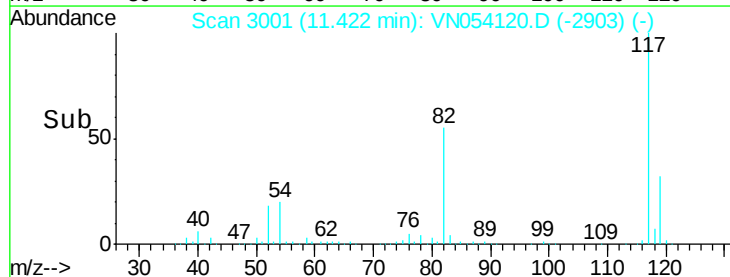
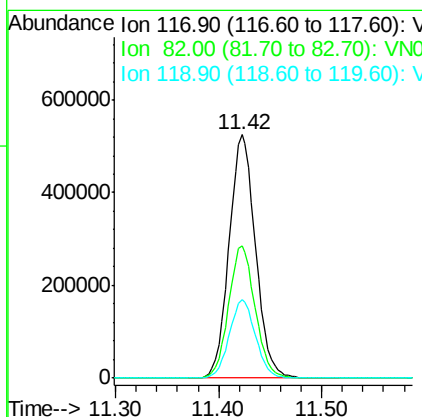
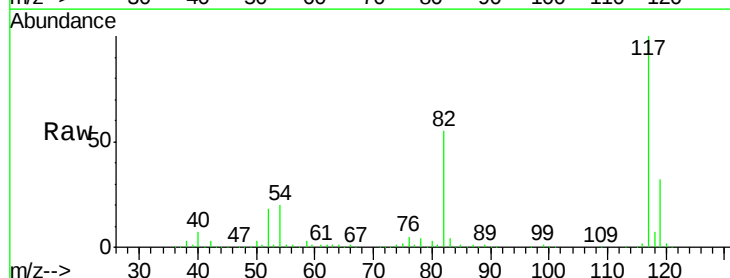
Instrument :
MSVOA_N
ClientSampleId :
VN0306WBL01

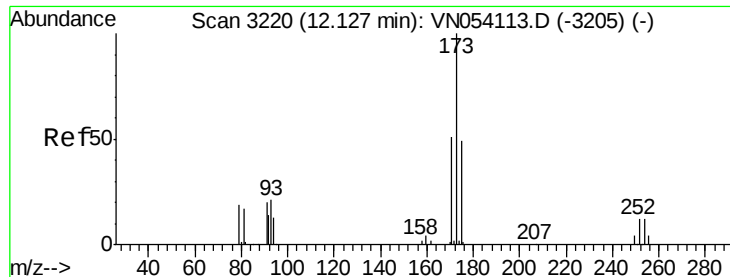
Tgt Ion: 95 Resp: 403063
Ion Ratio Lower Upper
95 100
174 87.1 0.0 173.2
176 84.2 0.0 168.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. 0.02 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

Tgt Ion: 117 Resp: 935459
Ion Ratio Lower Upper
117 100
82 54.6 43.4 65.2
119 32.3 26.0 39.0





#71

Bromoform

Concen: 0.357 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampled :

VN0306WBL01

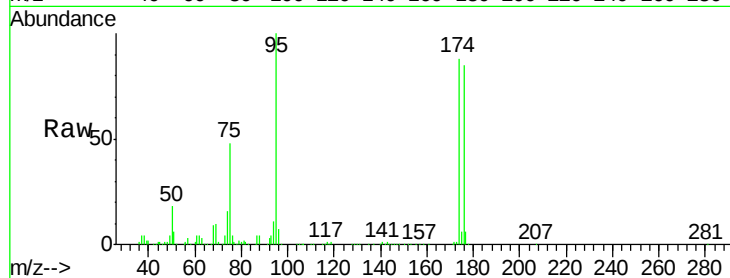
Tgt Ion:173 Resp: 1710

Ion Ratio Lower Upper

173 100

175 1037.3 24.1 72.2#

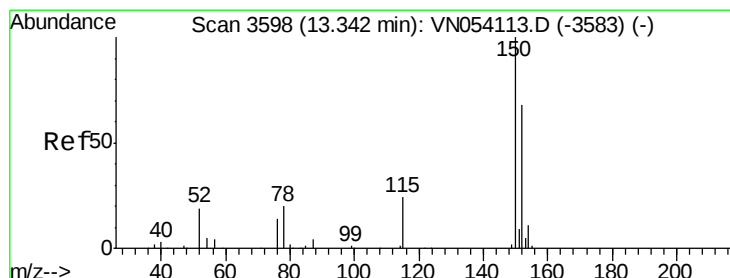
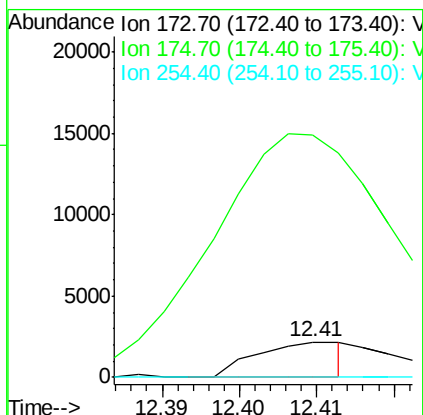
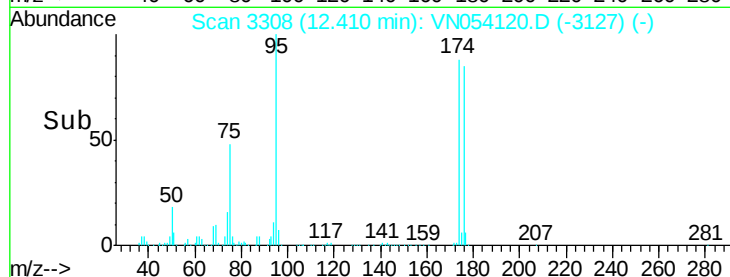
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

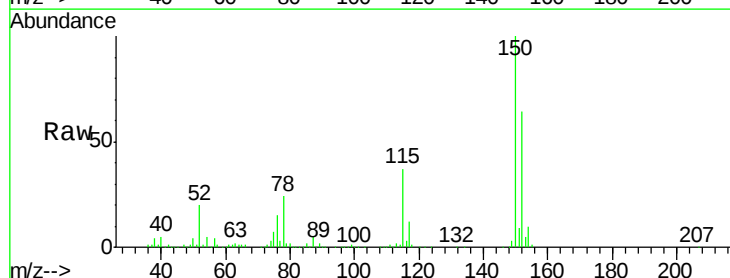
Tgt Ion:152 Resp: 327480

Ion Ratio Lower Upper

152 100

115 58.1 28.5 85.6

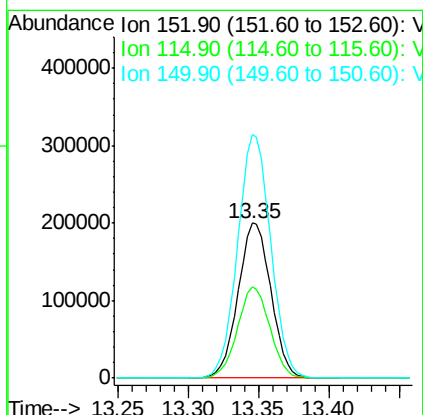
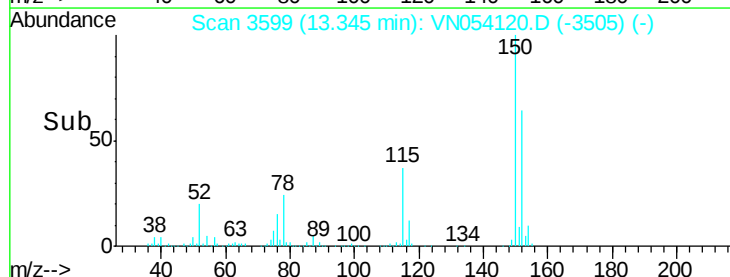
150 158.1 0.0 343.2

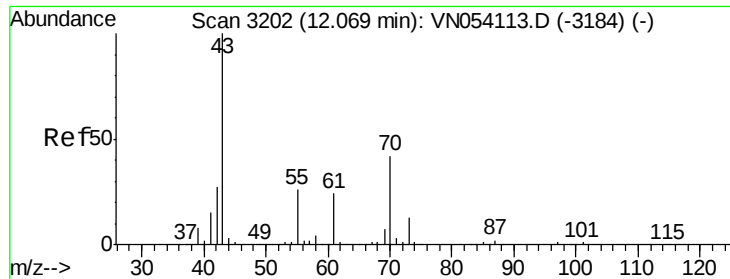


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.287 ug/l

RT: 12.08 min Scan# 3207

Delta R.T. 0.02 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBL01

Tgt Ion: 43 Resp: 1982

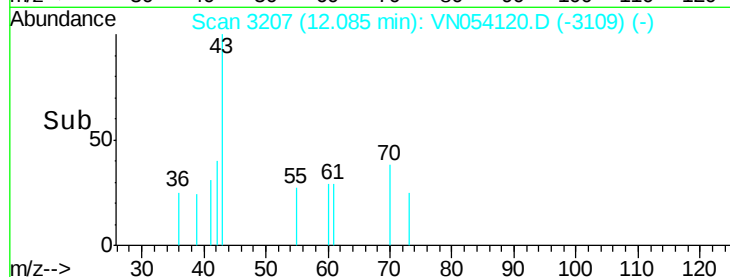
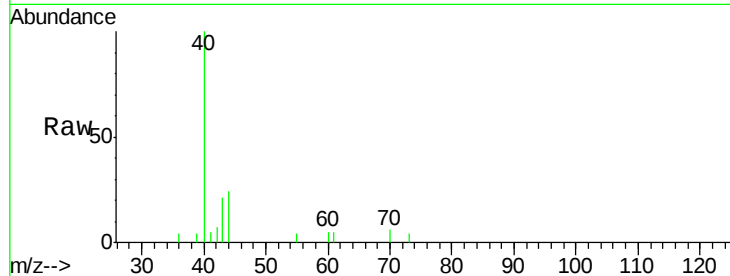
Ion Ratio Lower Upper

43 100

70 15.8 33.6 50.4#

55 5.5 20.6 31.0#

61 7.2 19.4 29.2#

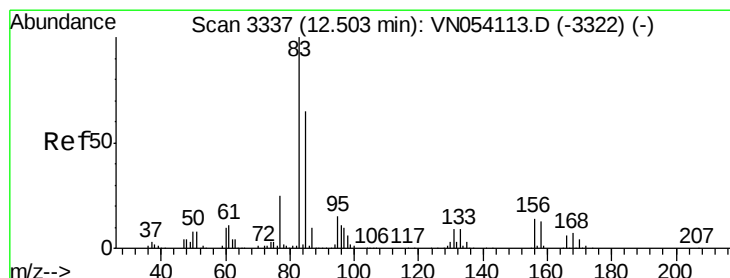
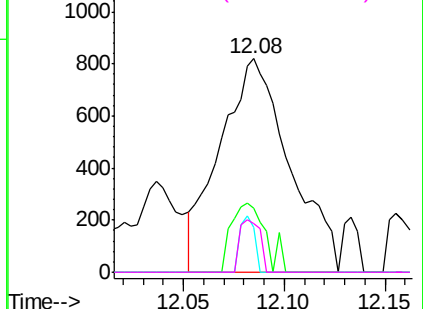


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

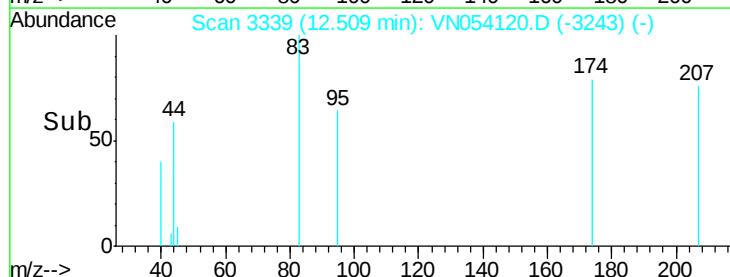
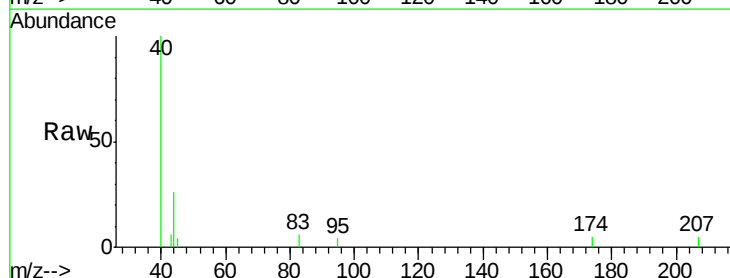
Tgt Ion: 83 Resp: 244

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

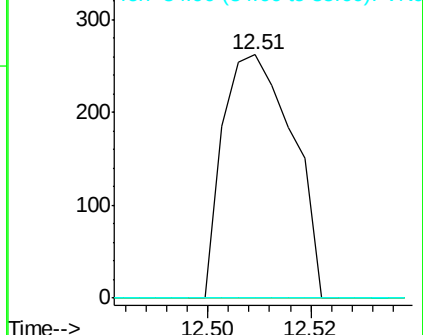
85 0.0 32.4 97.0#

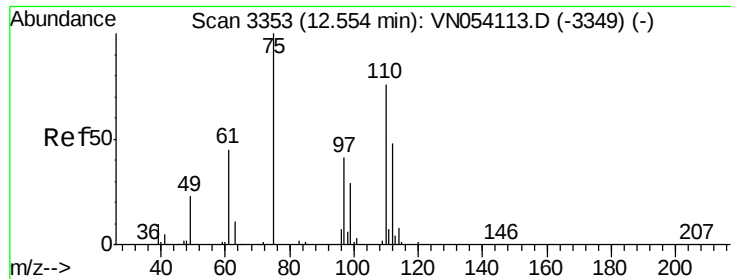


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 34.534 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampled :

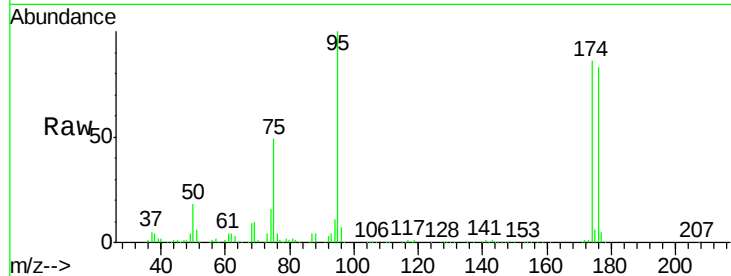
VN0306WBL01

Tgt Ion: 75 Resp: 192733

Ion Ratio Lower Upper

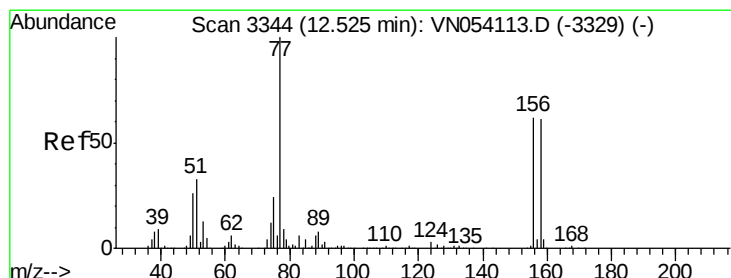
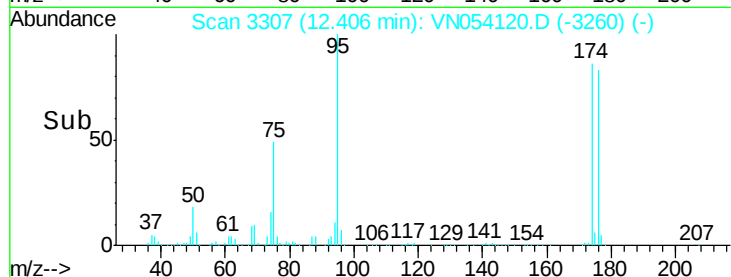
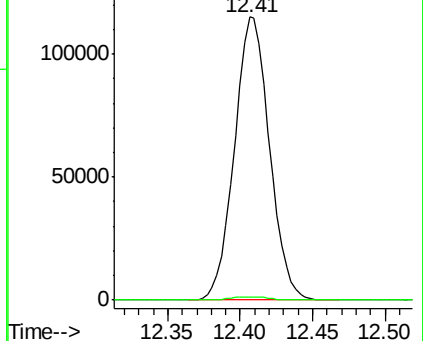
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

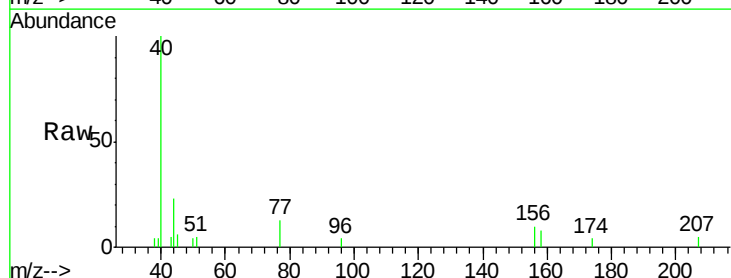
Tgt Ion: 156 Resp: 477

Ion Ratio Lower Upper

156 100

77 167.9 93.6 280.8

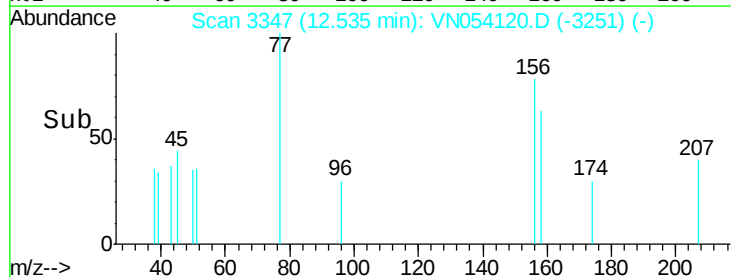
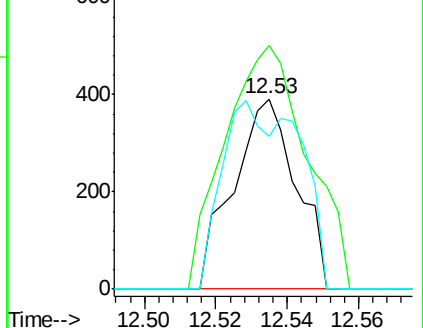
158 73.4 48.4 145.0

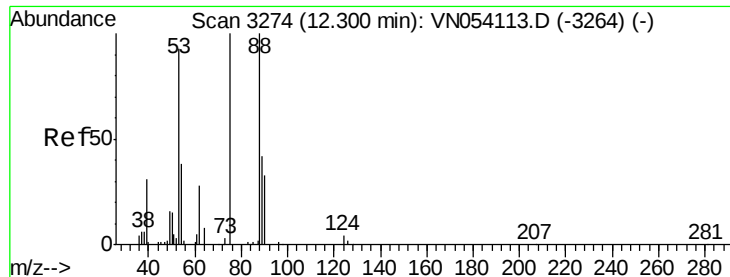


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V





#81

trans-1,4-Dichloro-2-butene

Concen: 118.595 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.11 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

Instrument :

MSVOA_N

ClientSampleId :

VN0306WBL01

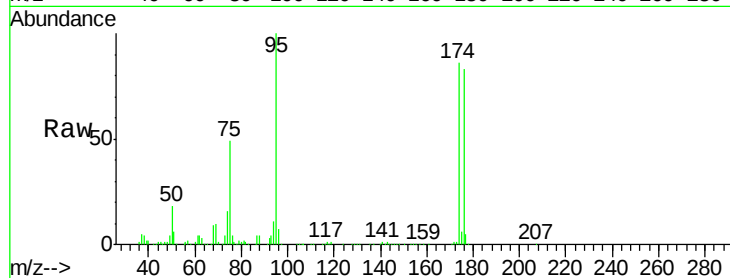
Tgt Ion: 75 Resp: 192733

Ion Ratio Lower Upper

75 100

53 0.0 76.4 114.6#

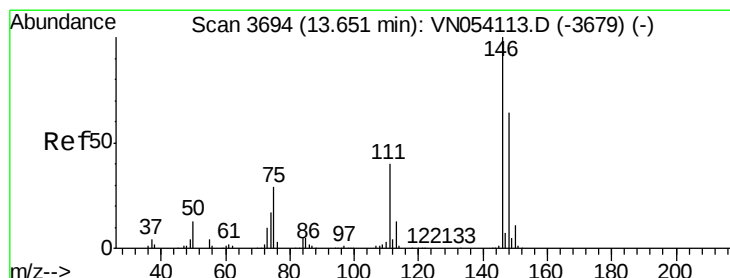
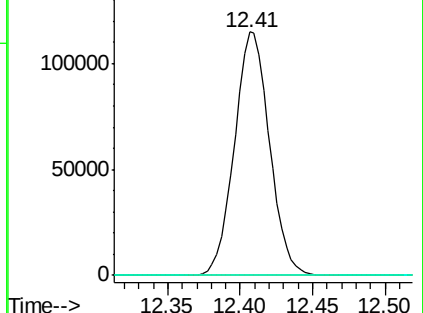
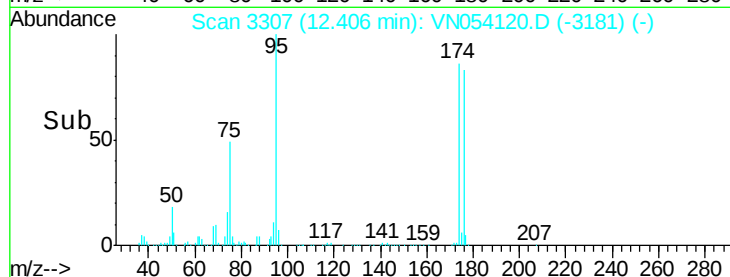
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN054120.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054120.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054120.D (-3181) (-)



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN054120.D

Acq: 6 Mar 2019 16:53

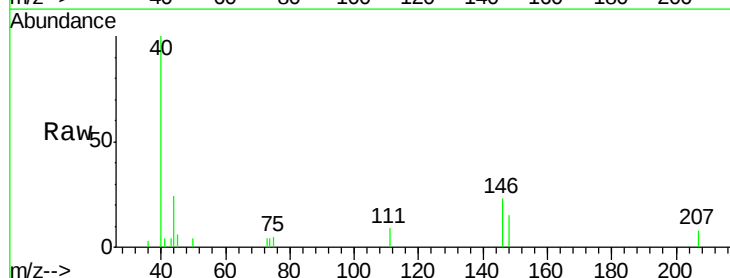
Tgt Ion: 146 Resp: 1521

Ion Ratio Lower Upper

146 100

111 44.4 20.0 60.0

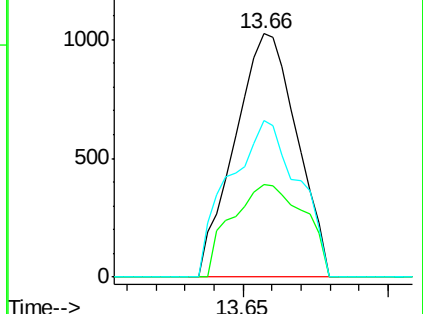
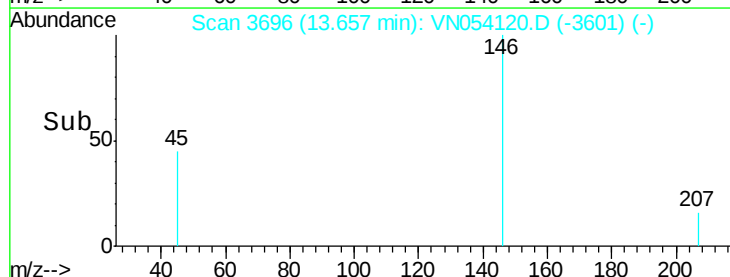
148 71.8 32.3 96.9

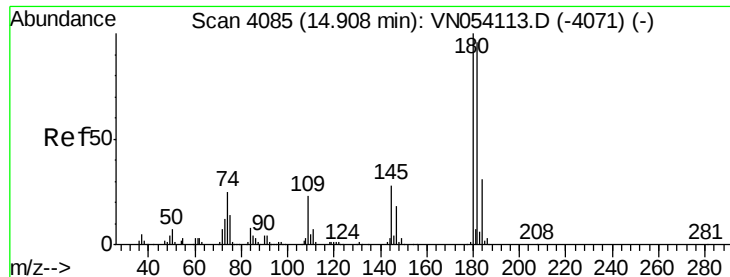


Abundance Ion 145.90 (145.60 to 146.60): VN054120.D (-3601) (-)

Ion 110.90 (110.60 to 111.60): VN054120.D (-3601) (-)

Ion 147.90 (147.60 to 148.60): VN054120.D (-3601) (-)

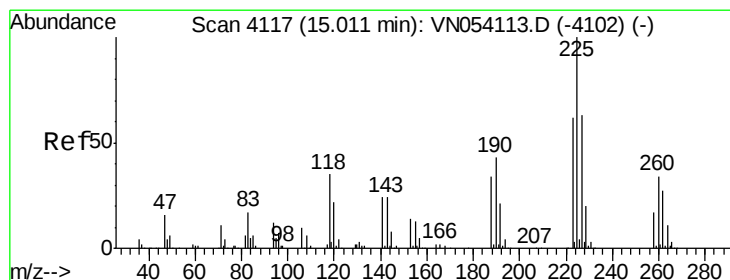
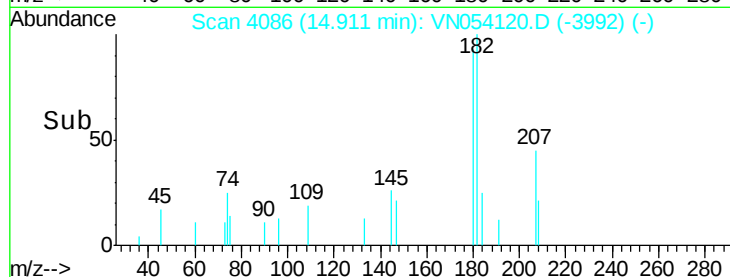
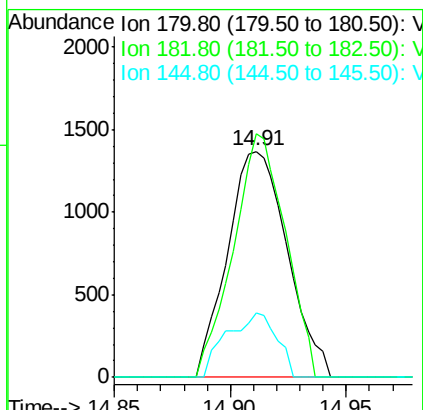
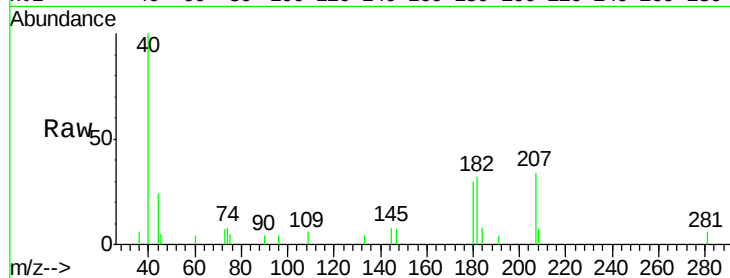




#93
 1,2,4-Trichlorobenzene
 Concen: 0.452 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054120.D
 Acq: 6 Mar 2019 16:53

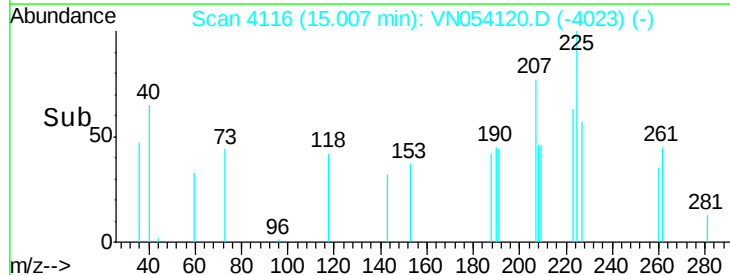
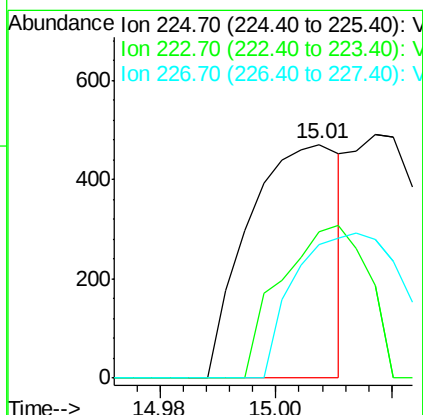
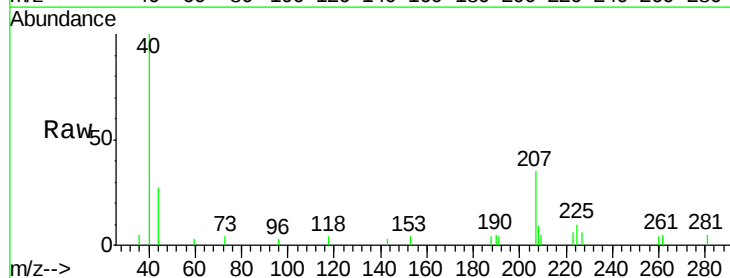
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0306WBL01

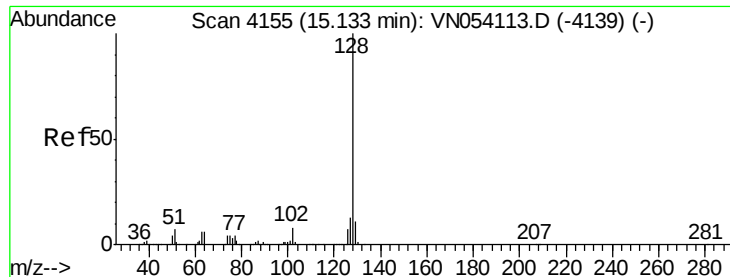
Tgt Ion:180 Resp: 2452
 Ion Ratio Lower Upper
 180 100
 182 93.7 48.1 144.3
 145 23.7 13.9 41.7



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054120.D
 Acq: 6 Mar 2019 16:53

Tgt Ion:225 Resp: 519
 Ion Ratio Lower Upper
 225 100
 223 61.7 31.2 93.6
 227 70.5 31.9 95.7

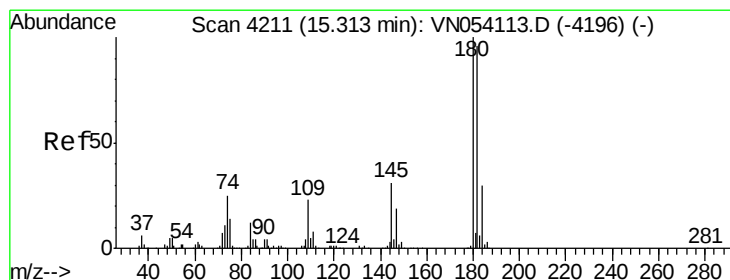
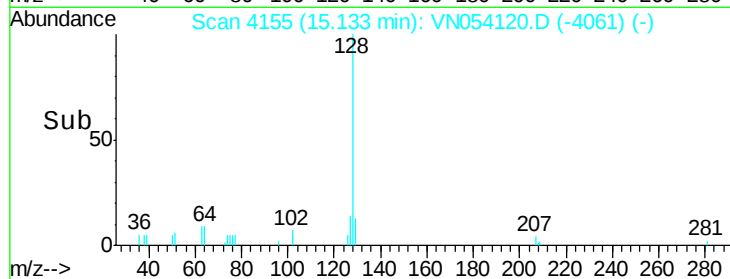
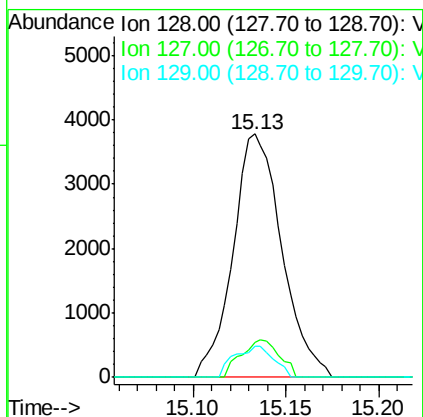
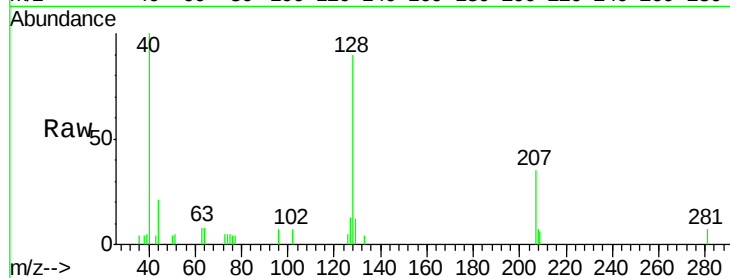




#95
Naphthalene
Concen: 5.123 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

Instrument :
MSVOA_N
ClientSampleId :
VN0306WBL01

Tgt Ion:128 Resp: 6908
Ion Ratio Lower Upper
128 100
127 12.1 10.4 15.6
129 10.4 8.6 12.8



#96
1,2,3-Trichlorobenzene
Concen: 2.999 ug/l
RT: 15.32 min Scan# 4213
Delta R.T. 0.01 min
Lab File: VN054120.D
Acq: 6 Mar 2019 16:53

Tgt Ion:180 Resp: 3310
Ion Ratio Lower Upper
180 100
182 102.0 47.9 143.7
145 27.8 14.9 44.5

