

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031020\
 Data File : VN060412.D
 Acq On : 10 Mar 2020 13:30
 Operator : JC/MD
 Sample : L1857-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Mar 11 06:40:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206072	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	336824	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313751	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144352	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	132652	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
35) Dibromofluoromethane	7.57	113	99430	63.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.20%	
50) Toluene-d8	10.08	98	414664	52.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.80%	
62) 4-Bromofluorobenzene	12.40	95	152926	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	

Target Compounds

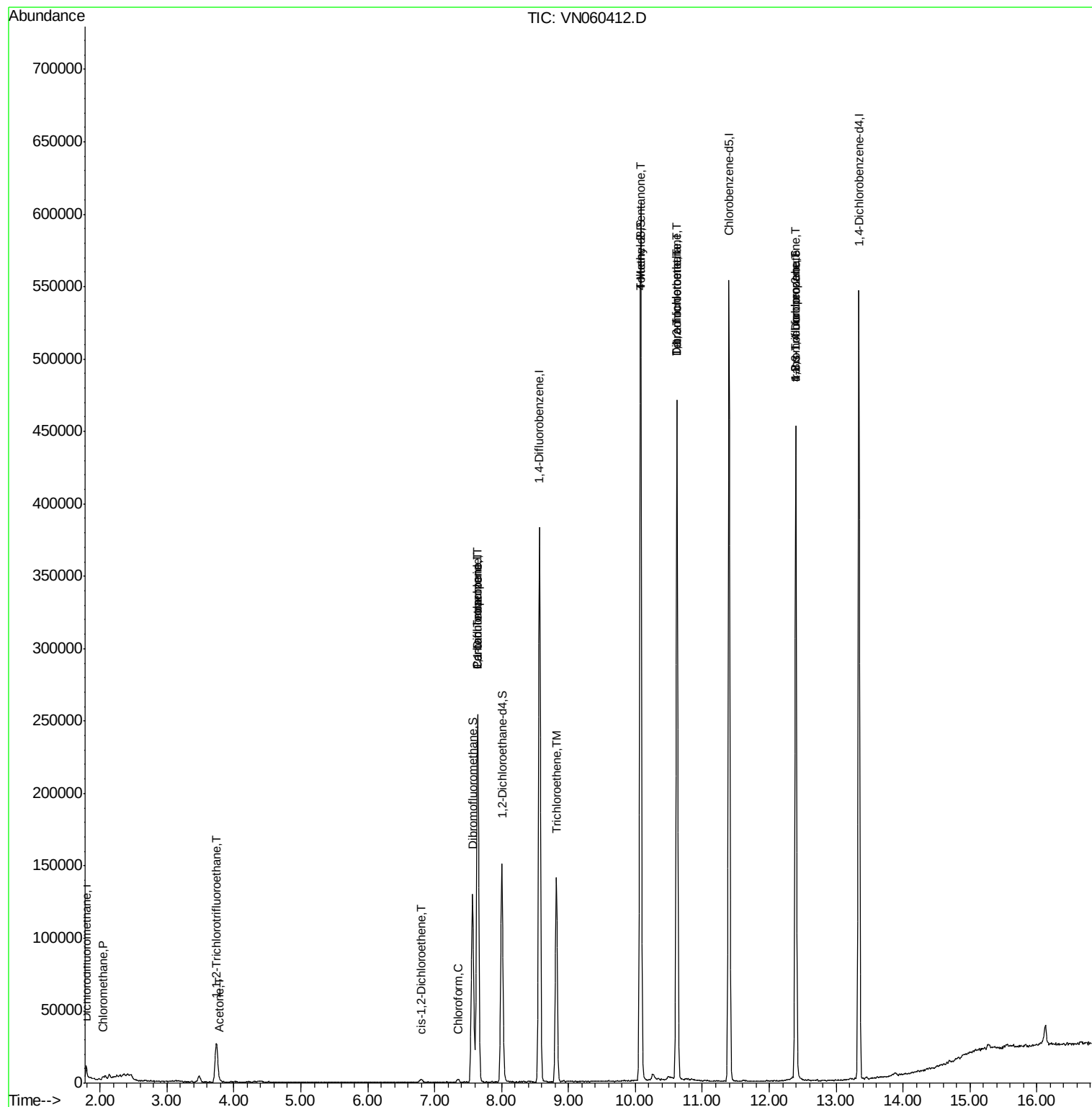
					Qvalue	
2) Dichlorodifluoromethane	1.79	85	574	0.304	ug/l	87
3) Chloromethane	2.04	50	787	0.239	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.74	101	17054	8.360	ug/l	95
12) 1,1-Dichloroethene	3.74	96	30	Below Cal	#	1
16) Acetone	3.79	43	1757	2.058	ug/l	90
17) Carbon Disulfide	4.04	76	218	Below Cal	#	75
27) cis-1,2-Dichloroethene	6.81	96	1266	0.466	ug/l	90
30) Chloroform	7.34	83	2432	0.584	ug/l	95
31) Cyclohexane	7.64	56	4433	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15821	4.929	ug/l	50
38) Carbon Tetrachloride	7.64	117	19486	6.235	ug/l	17
44) Trichloroethene	8.82	130	50956	19.582	ug/l	98
51) 4-Methyl-2-Pentanone	10.08	43	1912	0.634	ug/l	1
55) 1,1,2-Trichloroethane	10.62	97	970	0.411	ug/l	1
60) Dibromochloromethane	10.62	129	98816	41.169	ug/l	10
64) Tetrachloroethene	10.62	164	108641	43.803	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	79678	25.158	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79678	69.448	ug/l	8
87) 1,3-Dichlorobenzene	13.28	146	134	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	235	Below Cal	#	15
95) Naphthalene	15.13	128	923	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	174	Below Cal	#	59

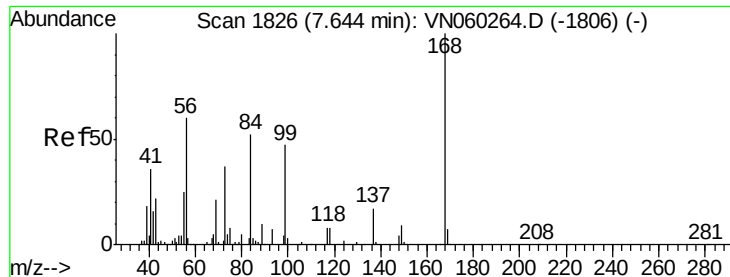
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

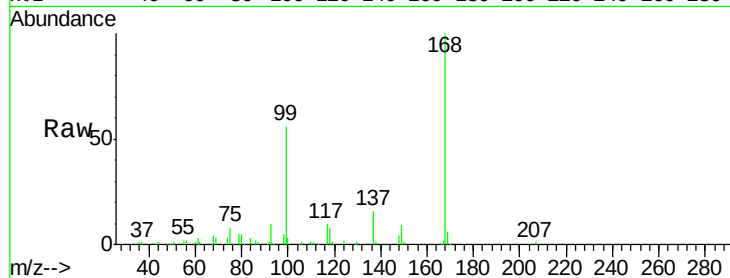
MW-2

Tgt Ion:168 Resp: 206072

Ion Ratio Lower Upper

168 100

99 56.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

80000

60000

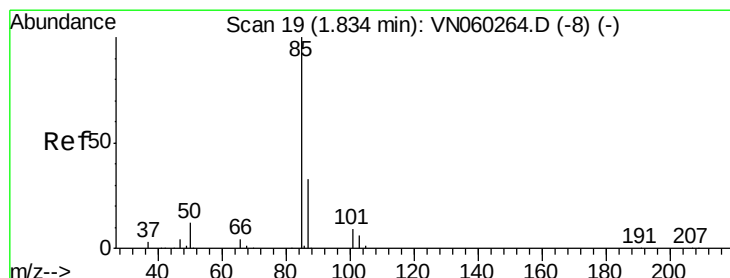
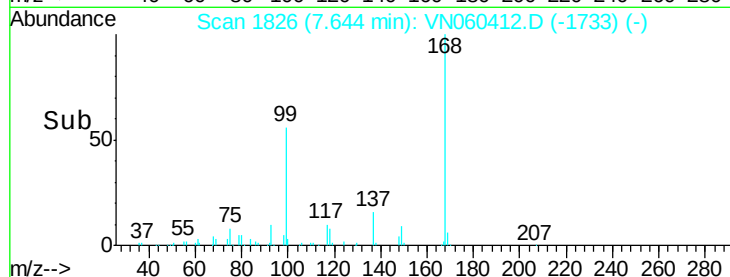
40000

20000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.304 ug/l

RT: 1.79 min Scan# 6

Delta R.T. -0.04 min

Lab File: VN060412.D

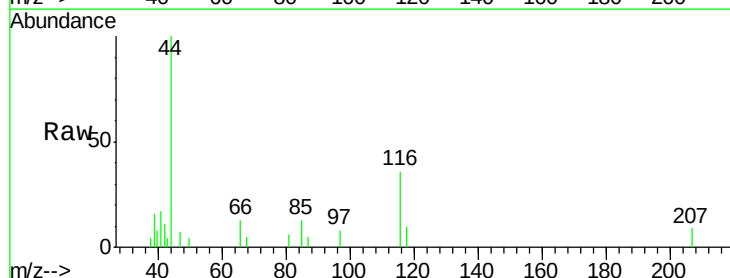
Acq: 10 Mar 2020 13:30

Tgt Ion: 85 Resp: 574

Ion Ratio Lower Upper

85 100

87 39.9 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.79

600

500

400

300

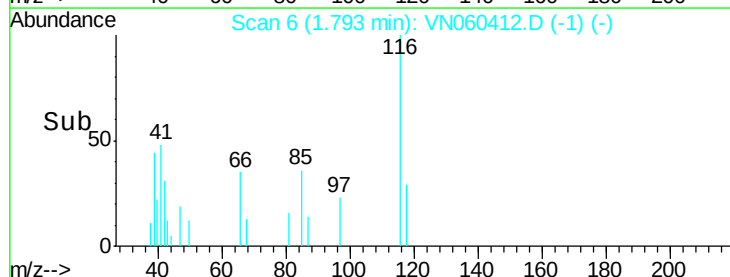
200

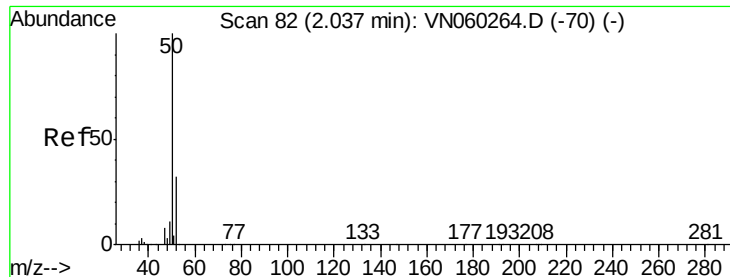
100

0

1.78 1.80 1.82

Time-->





#3

Chloromethane

Concen: 0.239 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

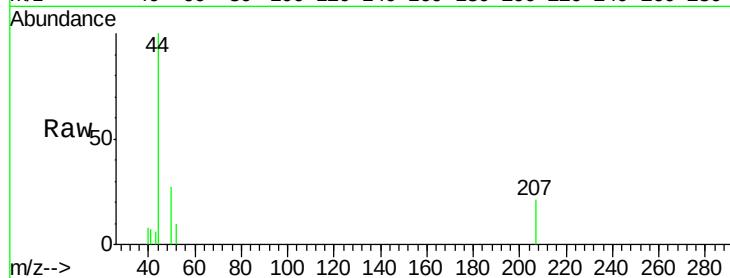
MW-2

Tgt Ion: 50 Resp: 787

Ion Ratio Lower Upper

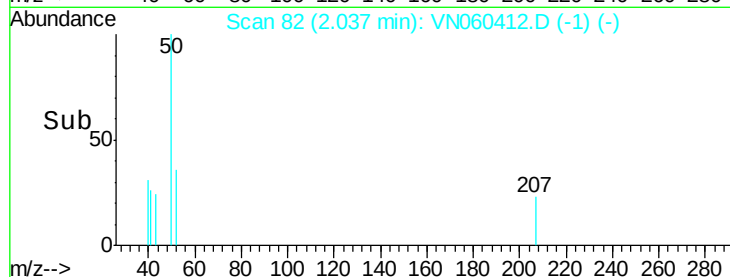
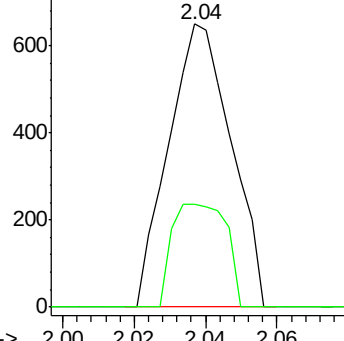
50 100

52 36.5 25.6 38.4

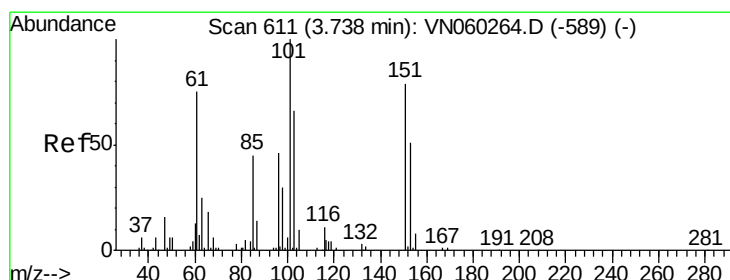


Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.360 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

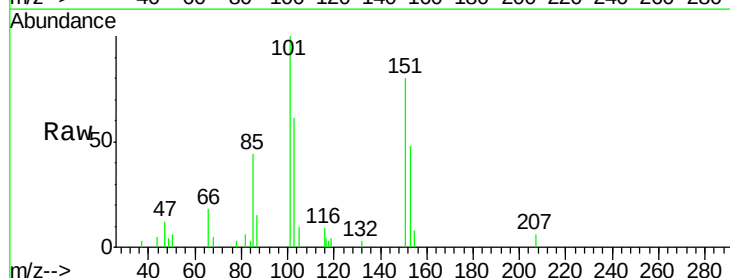
Tgt Ion: 101 Resp: 17054

Ion Ratio Lower Upper

101 100

85 46.7 35.4 53.2

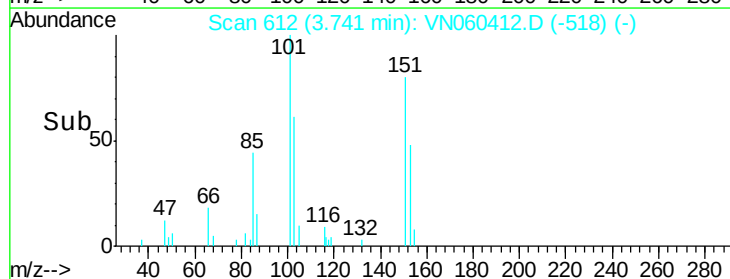
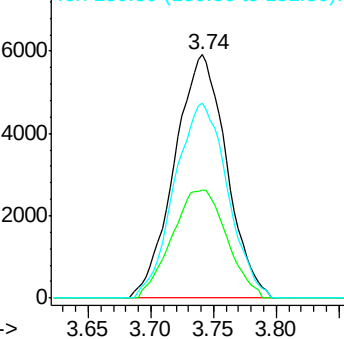
151 81.9 62.0 93.0



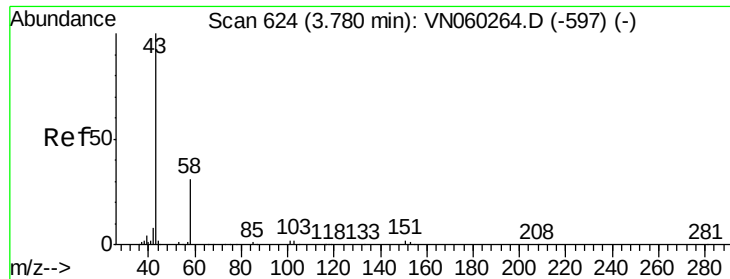
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



Time-->



#16

Acetone

Concen: 2.058 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

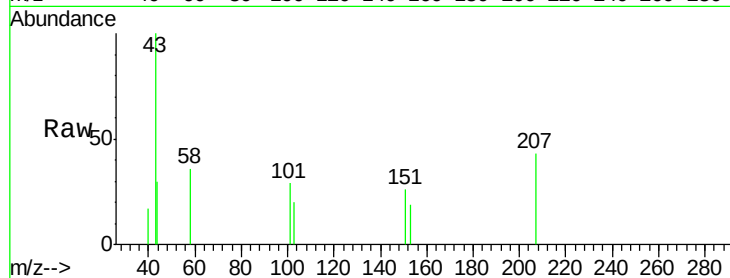
MW-2

Tgt Ion: 43 Resp: 1757

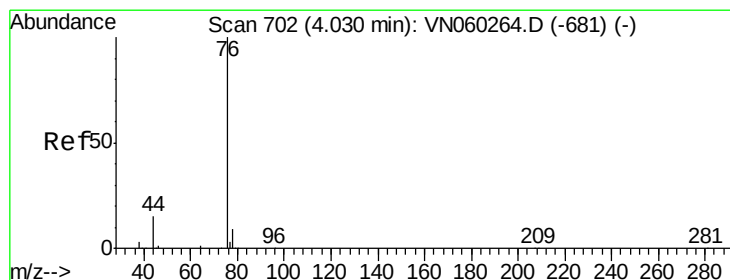
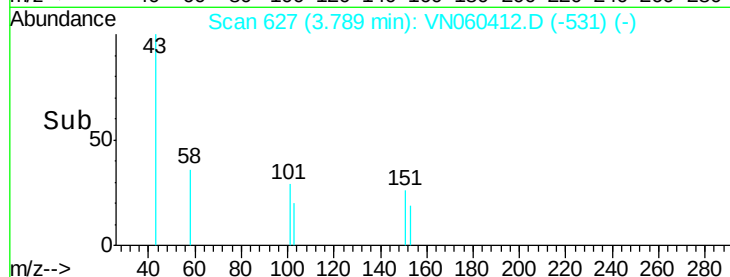
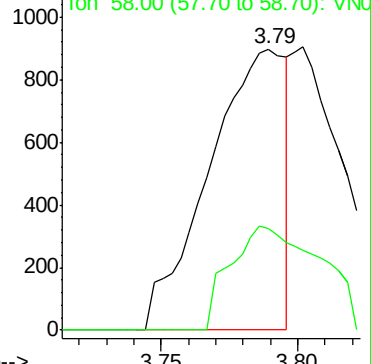
Ion Ratio Lower Upper

43 100

58 36.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060412.D (-531) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN060412.D

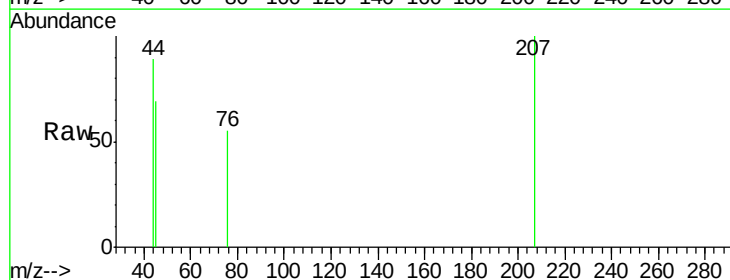
Acq: 10 Mar 2020 13:30

Tgt Ion: 76 Resp: 218

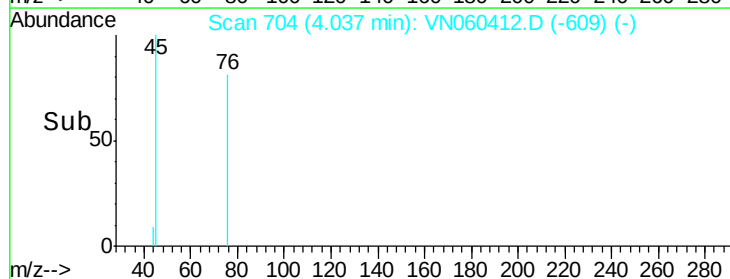
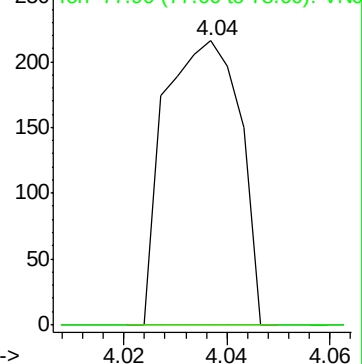
Ion Ratio Lower Upper

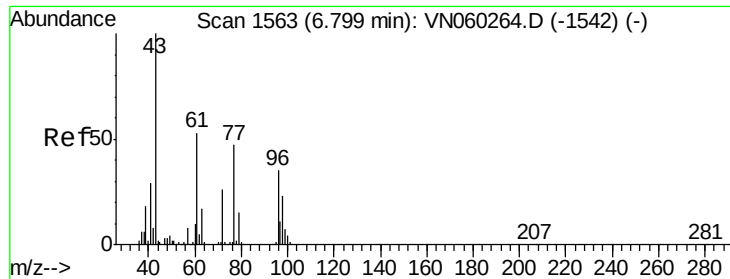
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060412.D (-609) (-)





#27

cis-1,2-Dichloroethene

Concen: 0.466 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

MW-2

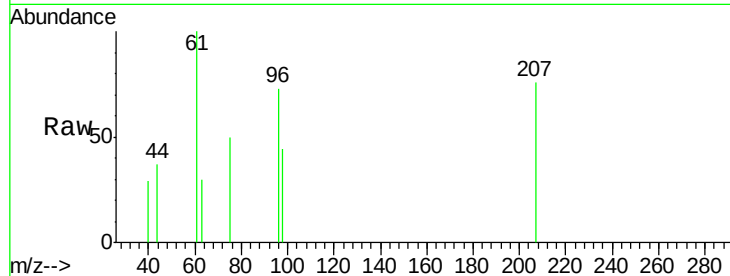
Tgt Ion: 96 Resp: 1266

Ion Ratio Lower Upper

96 100

61 140.0 0.0 300.8

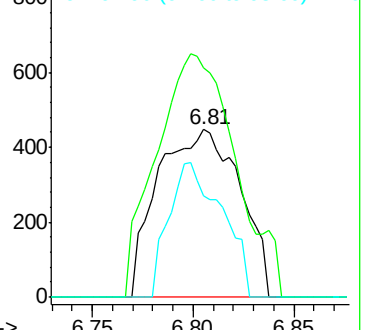
98 52.3 0.0 128.2



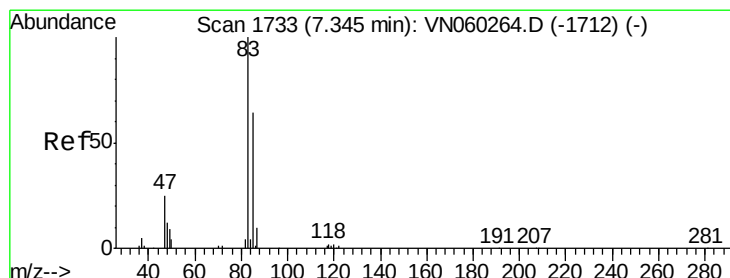
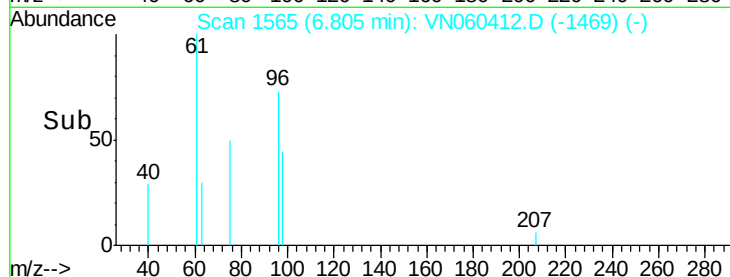
Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



Time-->



#30

Chloroform

Concen: 0.584 ug/l

RT: 7.34 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VN060412.D

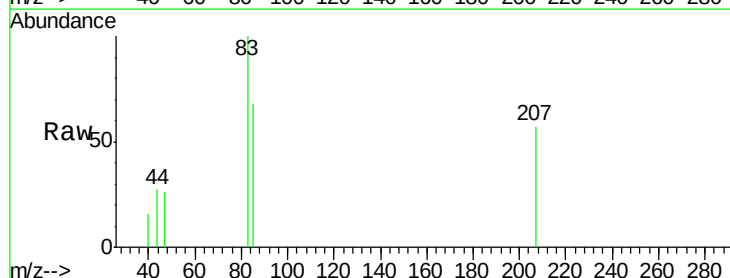
Acq: 10 Mar 2020 13:30

Tgt Ion: 83 Resp: 2432

Ion Ratio Lower Upper

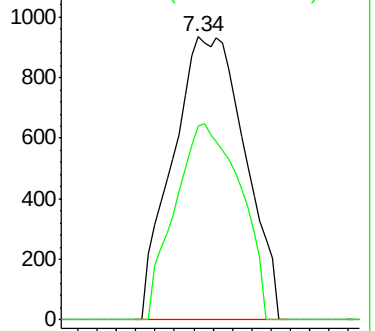
83 100

85 68.3 51.4 77.2

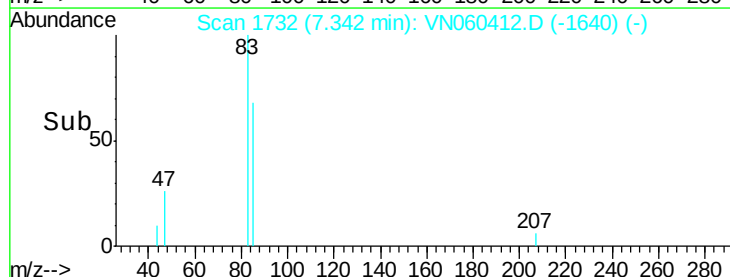


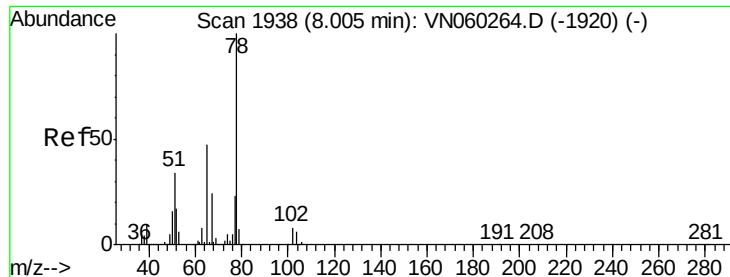
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0



Time-->

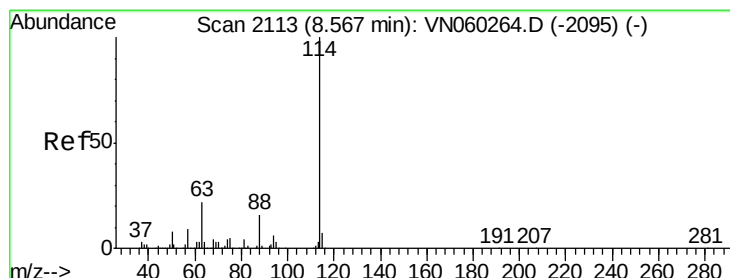
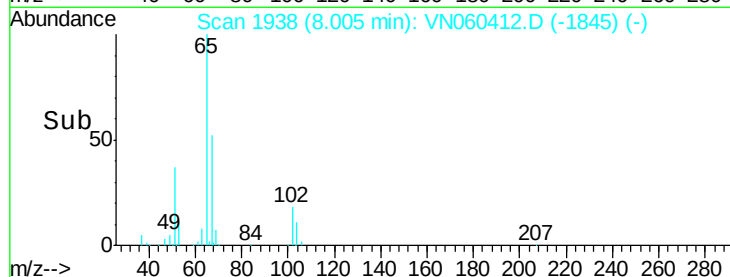
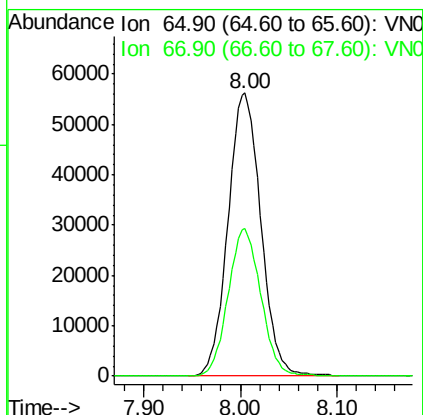
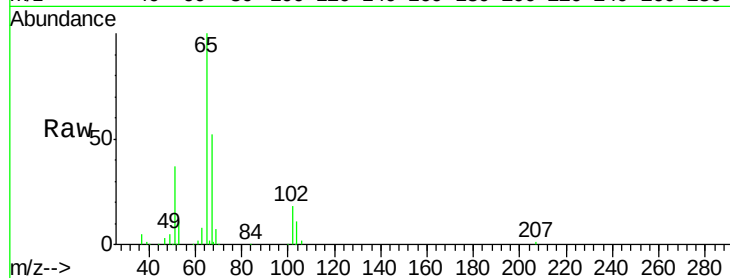




#33
 1,2-Dichloroethane-d4
 Concen: 50.172 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

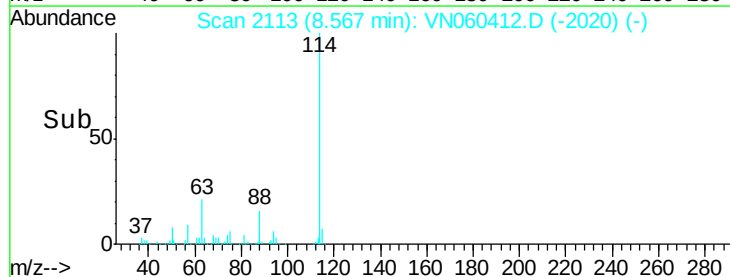
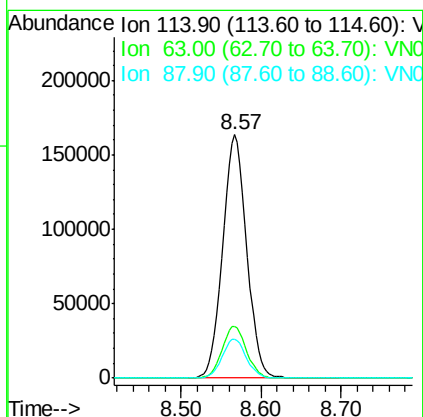
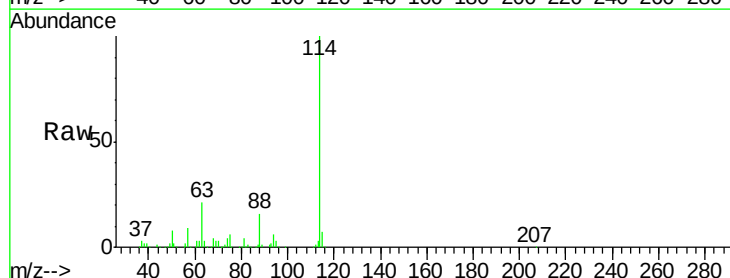
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

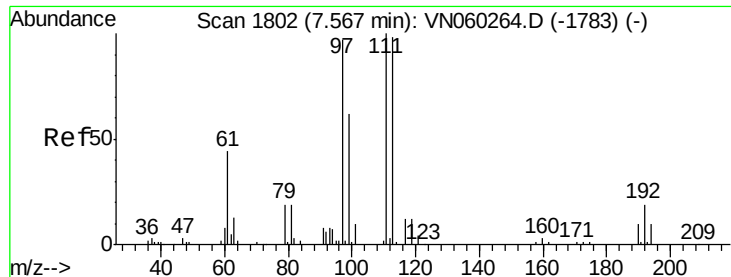
Tgt Ion: 65 Resp: 132652
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

Tgt Ion: 114 Resp: 336824
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 16.2 0.0 31.6

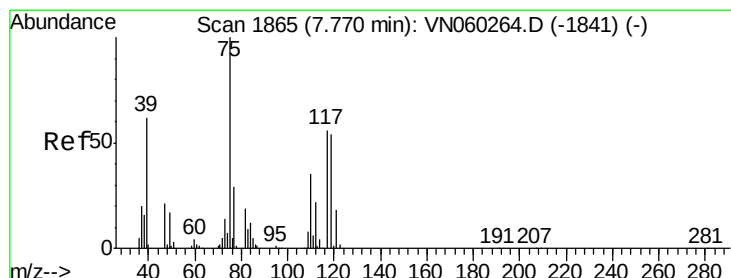
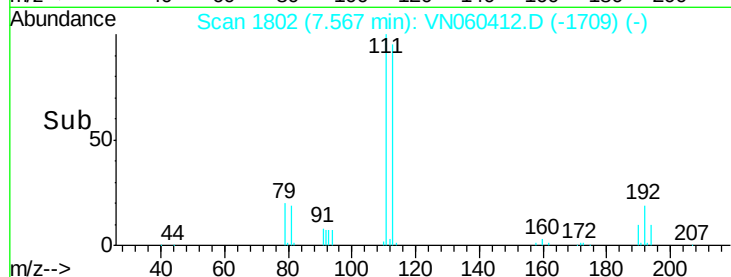
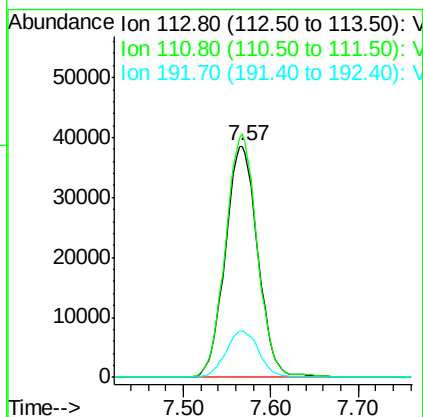
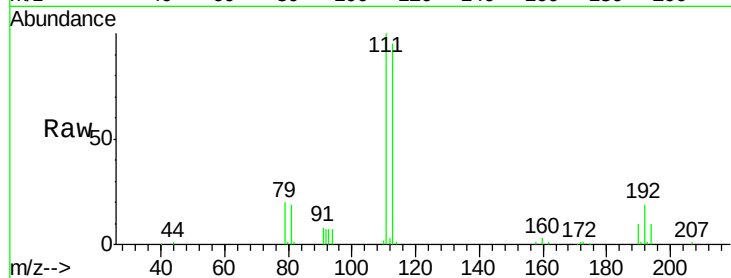




#35
 Dibromofluoromethane
 Concen: 63.597 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

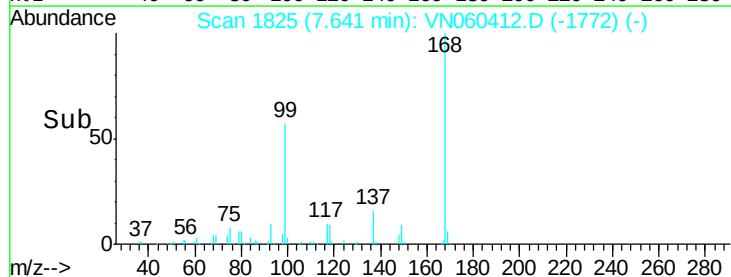
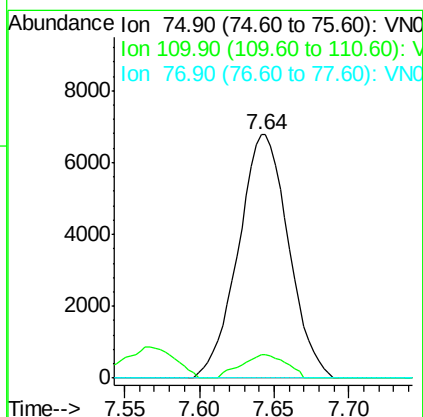
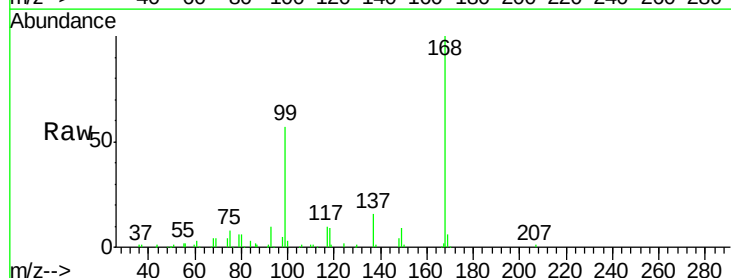
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

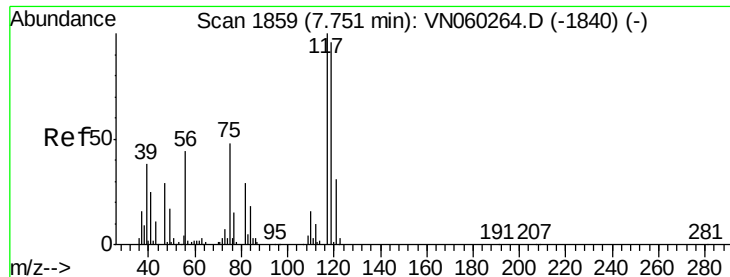
Tgt Ion:113 Resp: 99430
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.4 123.6
 192 20.3 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.929 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

Tgt Ion: 75 Resp: 15821
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.3 52.0#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.235 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

MW-2

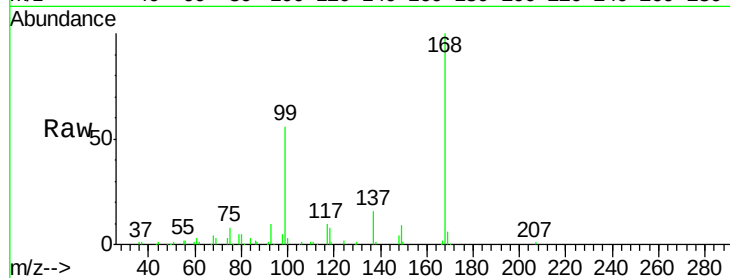
Tgt Ion:117 Resp: 19486

Ion Ratio Lower Upper

117 100

119 5.9 76.7 115.1#

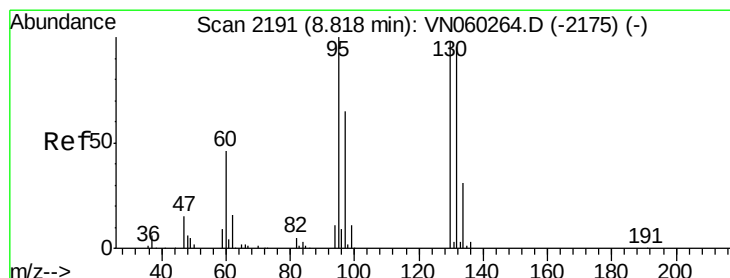
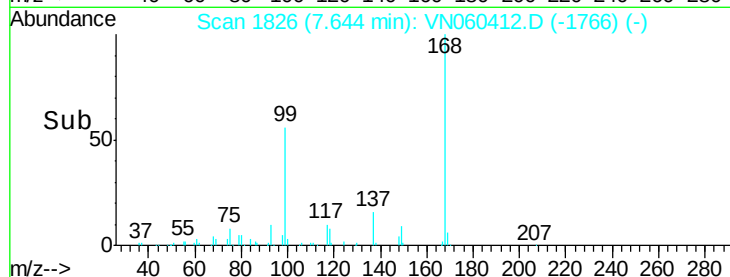
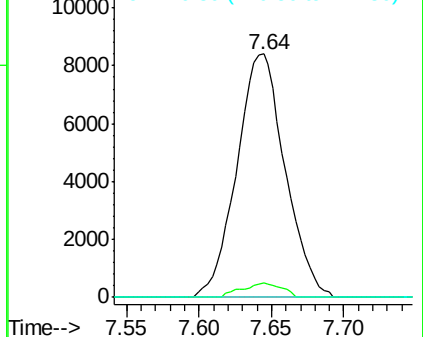
121 0.0 24.5 36.7#



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



#44

Trichloroethene

Concen: 19.582 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VN060412.D

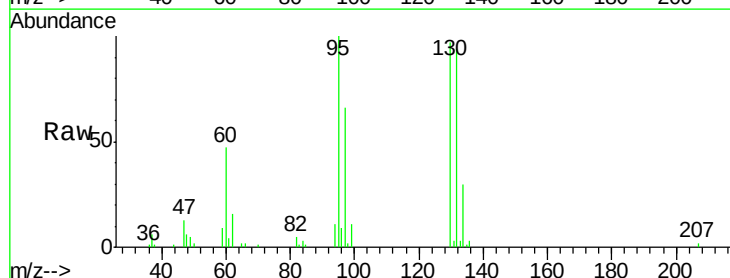
Acq: 10 Mar 2020 13:30

Tgt Ion:130 Resp: 50956

Ion Ratio Lower Upper

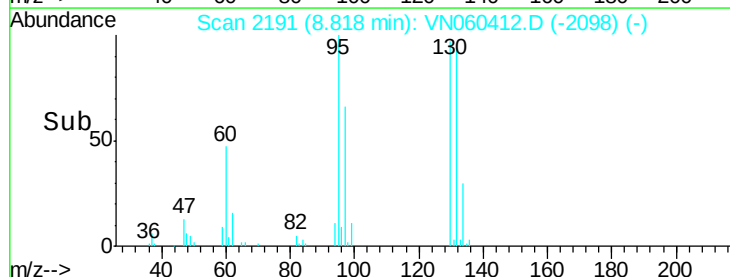
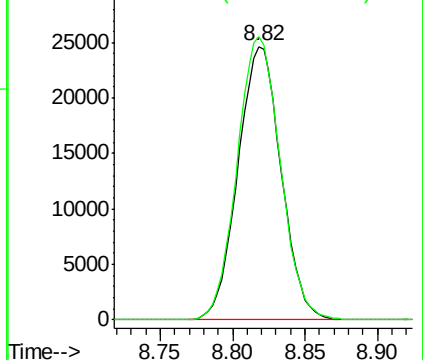
130 100

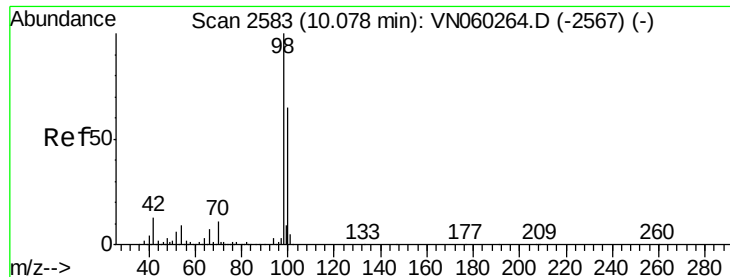
95 103.5 0.0 203.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 52.405 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

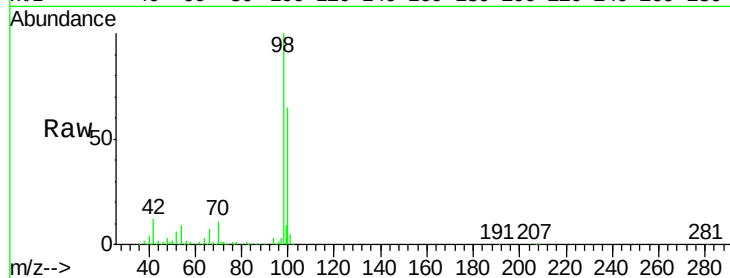
MW-2

Tgt Ion: 98 Resp: 414664

Ion Ratio Lower Upper

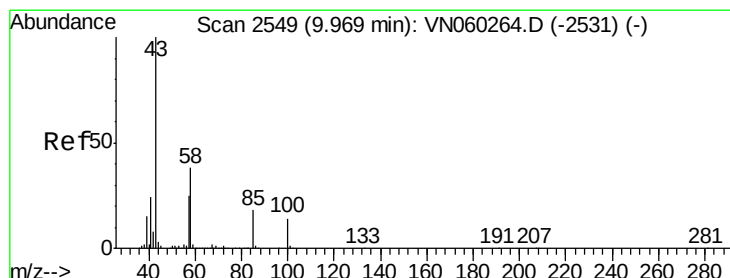
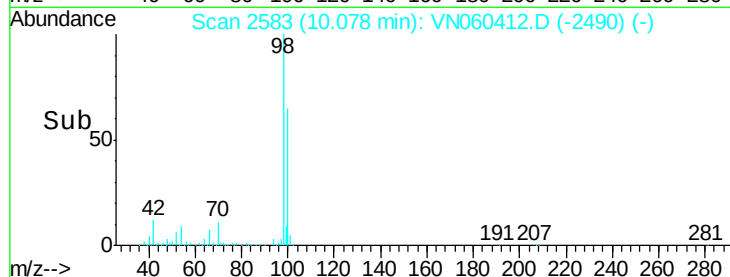
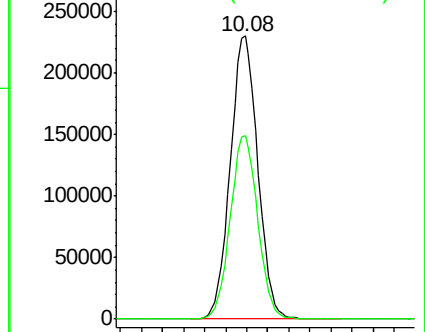
98 100

100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.634 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.11 min

Lab File: VN060412.D

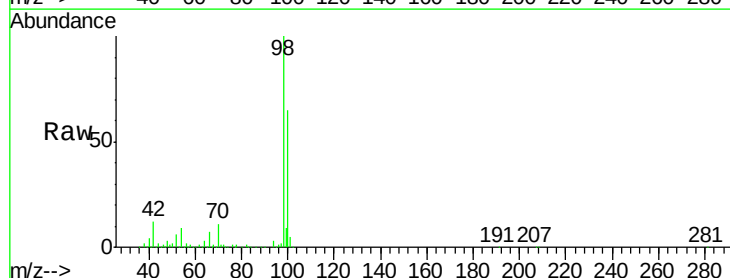
Acq: 10 Mar 2020 13:30

Tgt Ion: 43 Resp: 1912

Ion Ratio Lower Upper

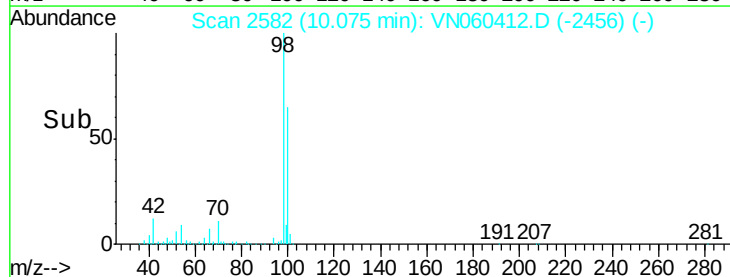
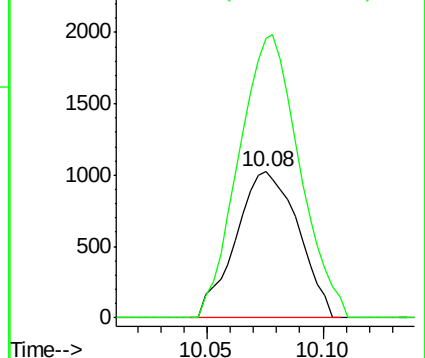
43 100

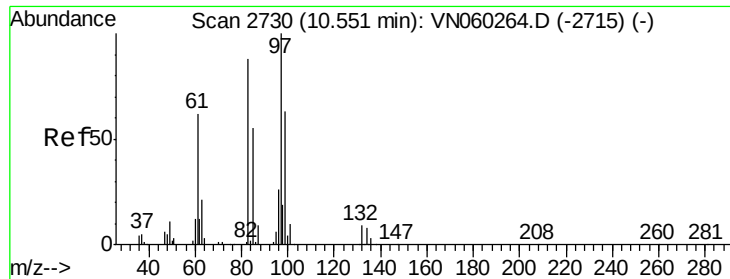
58 188.1 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

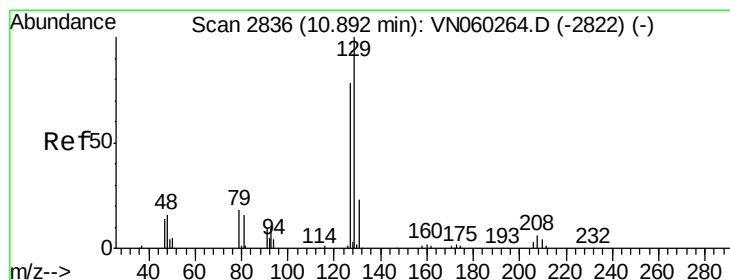
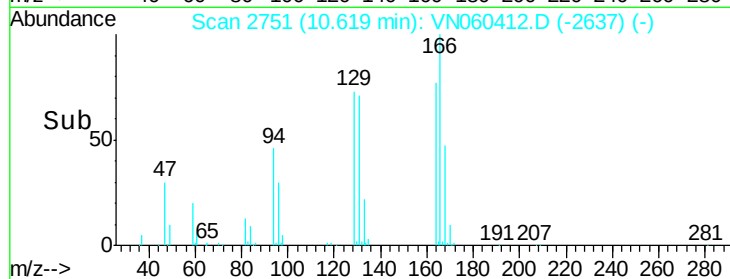
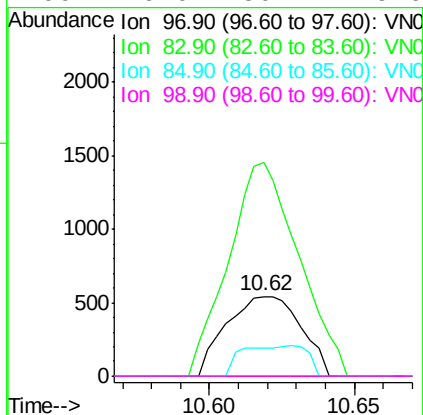
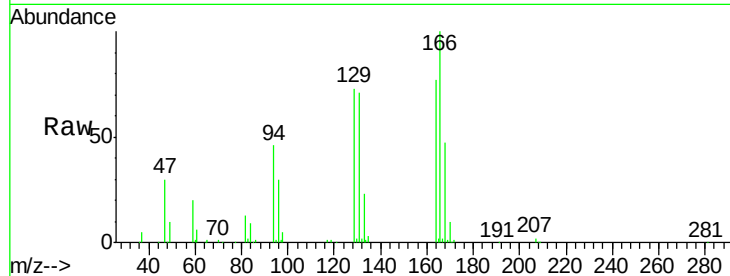




#55
 1,1,2-Trichloroethane
 Concen: 0.411 ug/l
 RT: 10.62 min Scan# 2751
 Delta R.T. 0.07 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

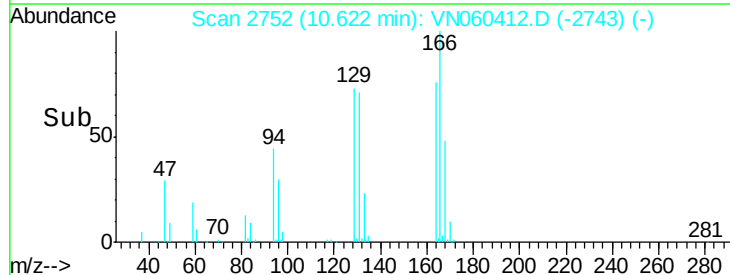
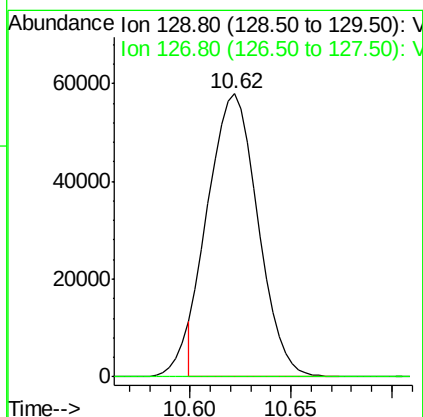
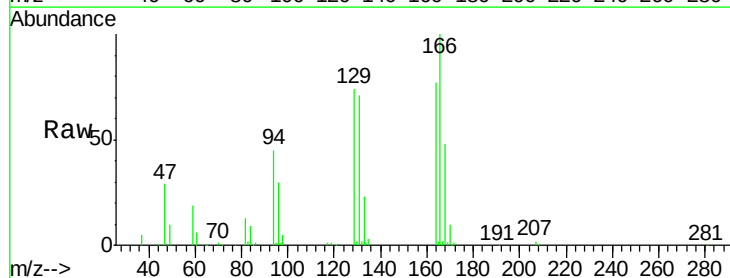
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

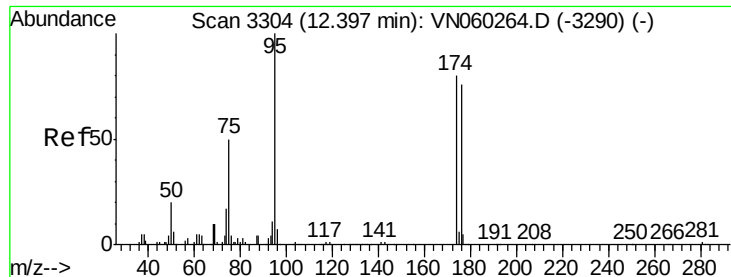
Tgt Ion: 97 Resp: 970
 Ion Ratio Lower Upper
 97 100
 83 267.6 70.0 105.0#
 85 35.9 44.0 66.0#
 99 0.0 50.4 75.6#



#60
 Dibromochloromethane
 Concen: 41.169 ug/l
 RT: 10.62 min Scan# 2752
 Delta R.T. -0.27 min
 Lab File: VN060412.D
 Acq: 10 Mar 2020 13:30

Tgt Ion: 129 Resp: 98816
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.9 116.7#

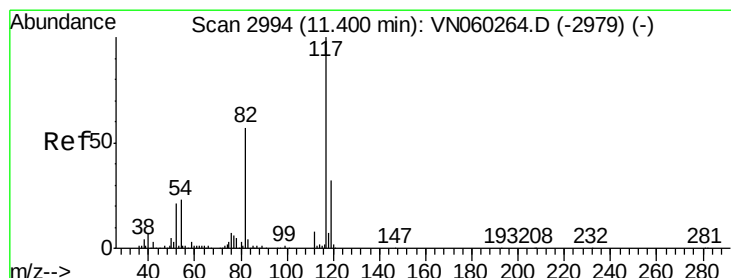
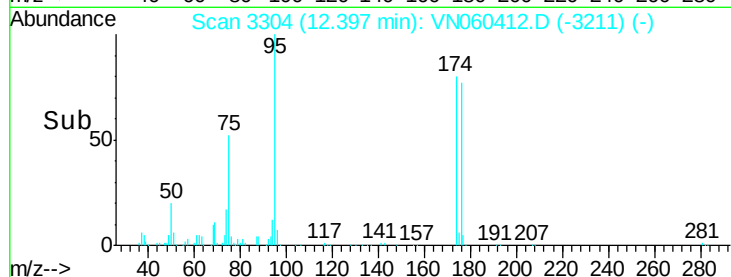
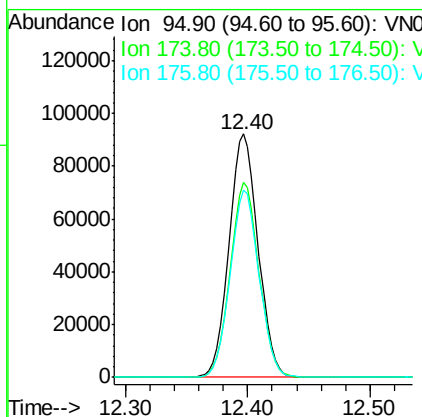
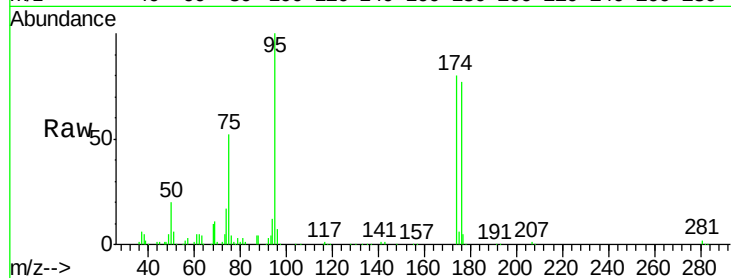




#62
4-Bromofluorobenzene
Concen: 50.984 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060412.D
Acq: 10 Mar 2020 13:30

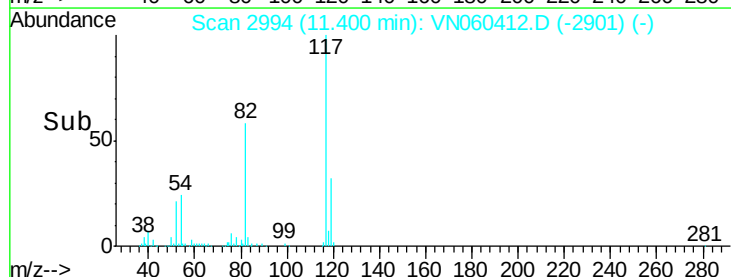
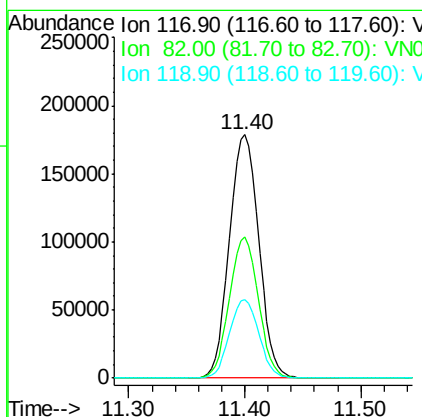
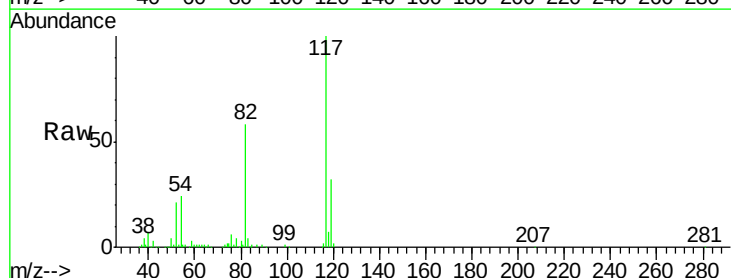
Instrument :
MSVOA_N
ClientSampleId :
MW-2

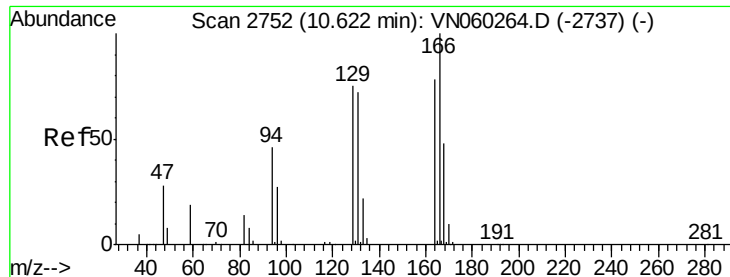
Tgt Ion: 95 Resp: 152926
Ion Ratio Lower Upper
95 100
174 79.5 0.0 159.2
176 76.8 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060412.D
Acq: 10 Mar 2020 13:30

Tgt Ion: 117 Resp: 313751
Ion Ratio Lower Upper
117 100
82 57.8 45.8 68.6
119 32.0 25.8 38.8





#64

Tetrachloroethene

Concen: 43.803 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tgt Ion:164 Resp: 108641

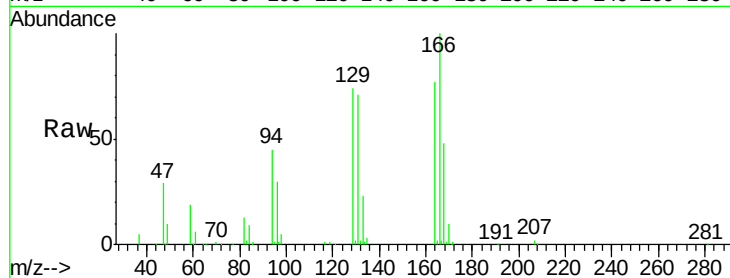
Ion Ratio Lower Upper

164 100

166 130.1 102.0 153.0

129 95.9 76.4 114.6

131 92.9 73.6 110.4

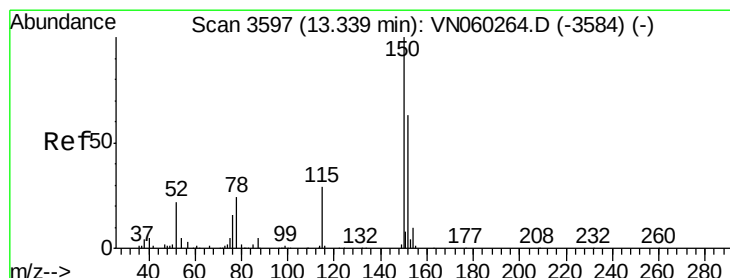
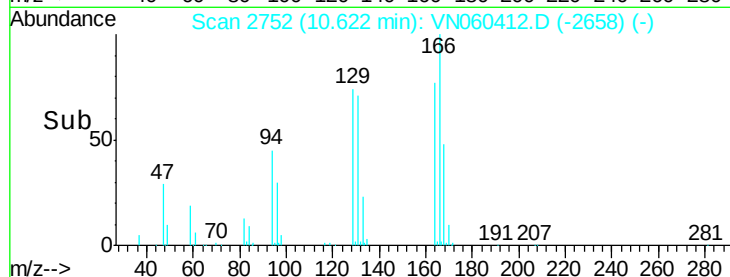
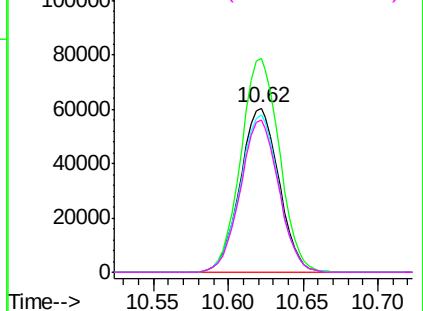


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

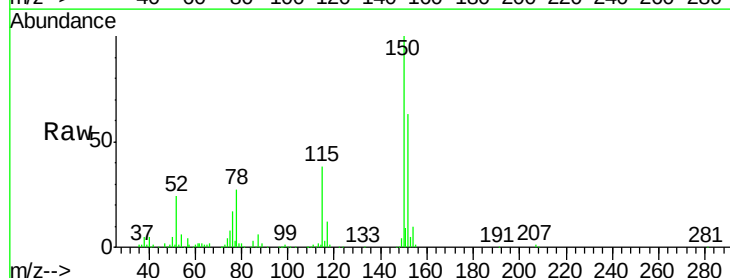
Tgt Ion:152 Resp: 144352

Ion Ratio Lower Upper

152 100

115 59.2 30.0 90.0

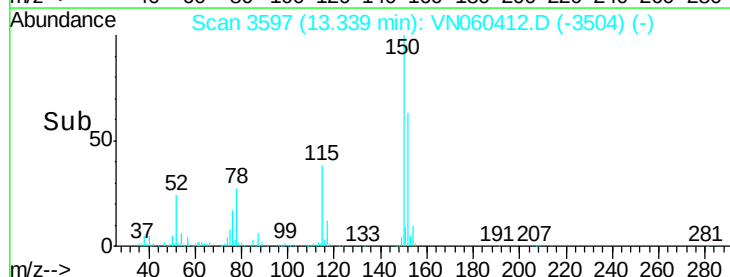
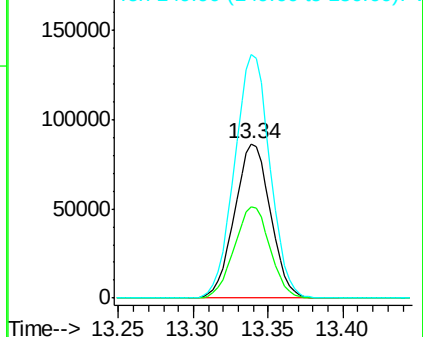
150 156.2 0.0 349.6

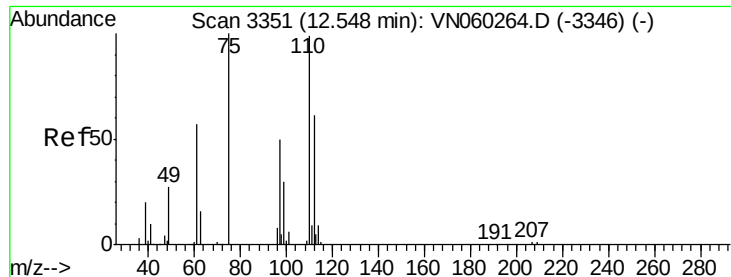


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.158 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

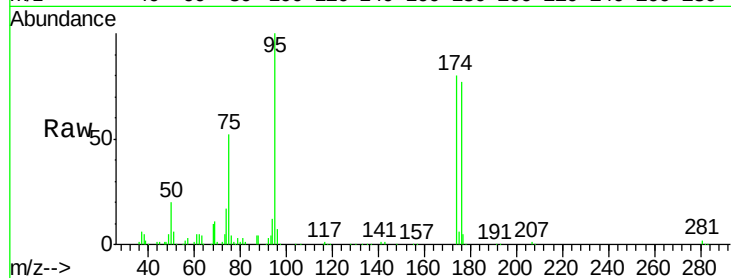
MW-2

Tgt Ion: 75 Resp: 79678

Ion Ratio Lower Upper

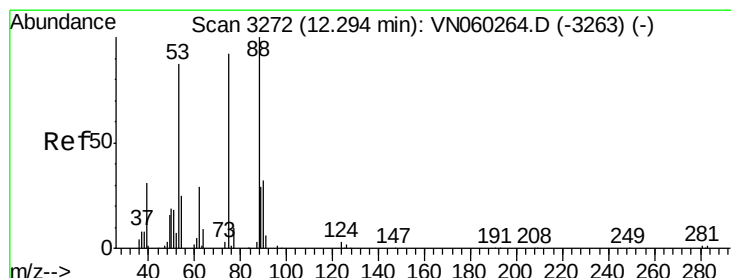
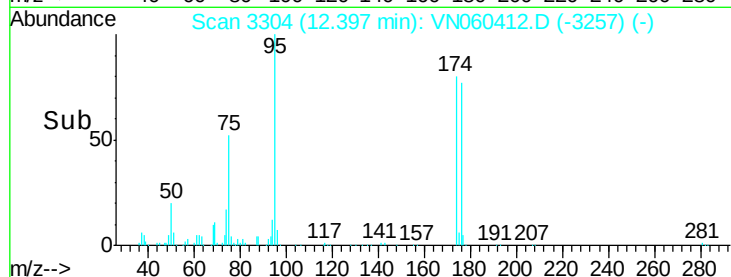
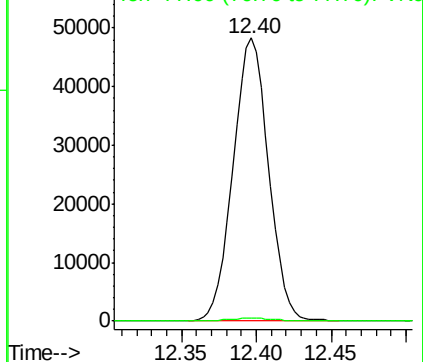
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 69.448 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

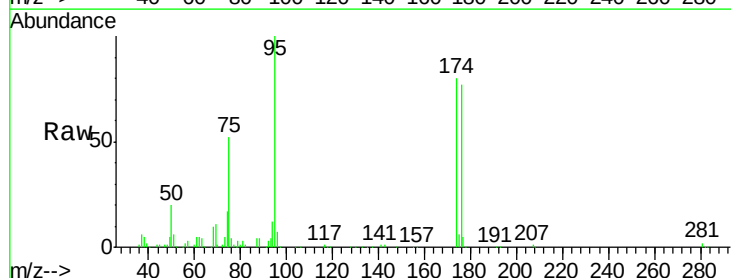
Tgt Ion: 75 Resp: 79678

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

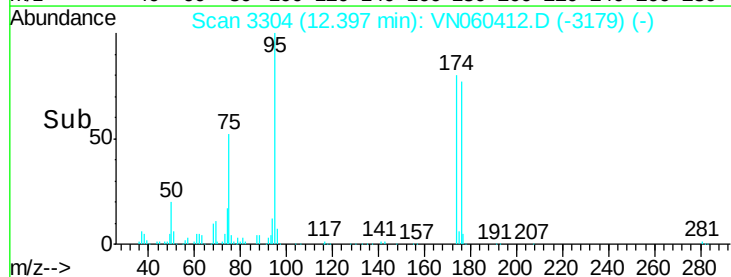
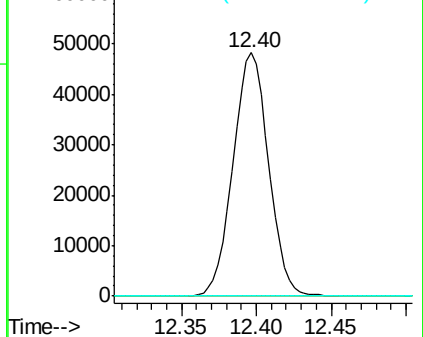
89 0.0 57.1 85.7#

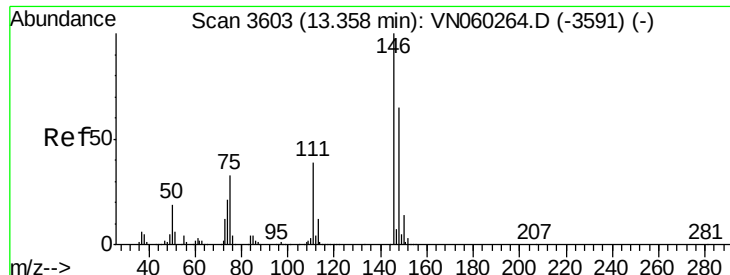


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN060412.D

Acq: 10 Mar 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

MW-2

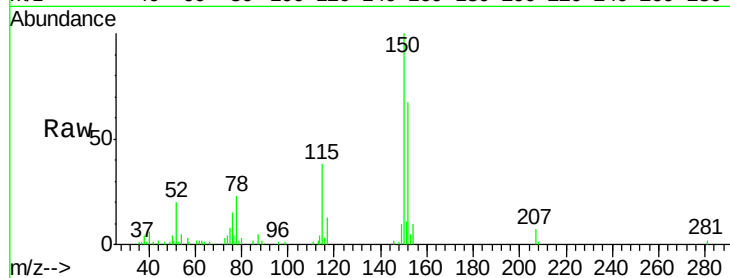
Tgt Ion:146 Resp: 235

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

148 141.7 32.3 96.9#



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

