

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061102.D
 Acq On : 20 Apr 2020 15:29
 Operator : JC/MD
 Sample : L2338-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 21 03:59:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	147197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	253589	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	233196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	100541	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	101797	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
35) Dibromofluoromethane	7.56	113	76395	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
50) Toluene-d8	10.08	98	310420	55.47	ug/l	0.00
Spiked Amount			Recovery	=	110.94%	
62) 4-Bromofluorobenzene	12.40	95	112972	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	

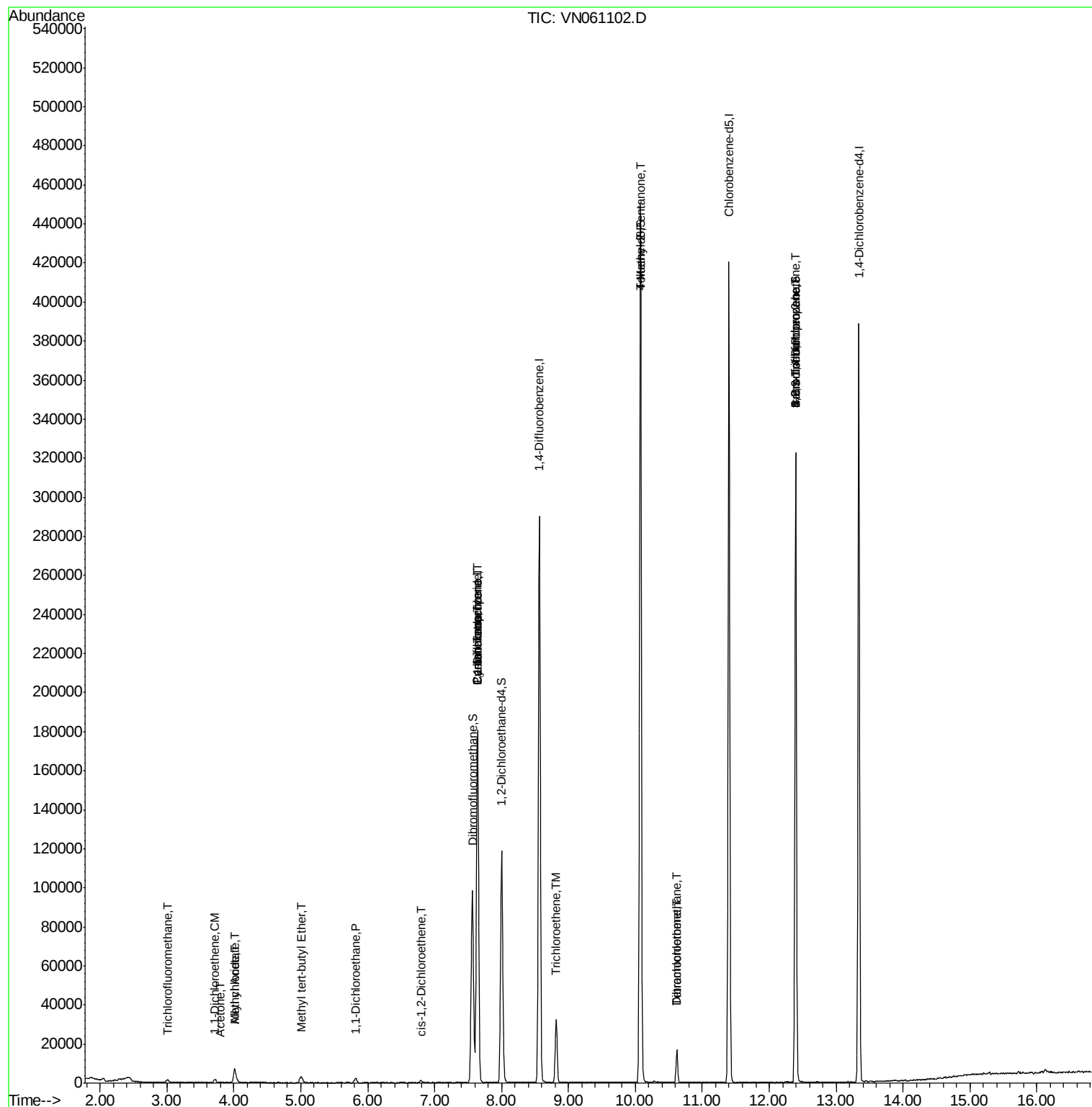
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	3.01	101	1731	0.641	ug/l	96
12) 1,1-Dichloroethene	3.72	96	931	0.578	ug/l #	63
14) Allyl chloride	4.01	41	969	0.318	ug/l #	43
16) Acetone	3.79	43	273	0.329	ug/l #	44
18) Methyl Acetate	4.01	43	2577	0.991	ug/l #	54
19) Methyl tert-butyl Ether	5.01	73	5623	1.001	ug/l	91
24) 1,1-Dichloroethane	5.82	63	4355	1.274	ug/l #	85
27) cis-1,2-Dichloroethene	6.79	96	412	0.208	ug/l #	2
31) Cyclohexane	7.64	56	2982	0.850	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11711	4.475	ug/l #	50
38) Carbon Tetrachloride	7.64	117	14330	6.579	ug/l #	15
44) Trichloroethene	8.82	130	11929	6.115	ug/l	99
51) 4-Methyl-2-Pentanone	10.08	43	1413	0.530	ug/l #	1
60) Dibromochloromethane	10.62	129	3732	2.061	ug/l #	10
64) Tetrachloroethene	10.62	164	3939	2.207	ug/l	98
71) Bromoform	12.40	173	415	0.323	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	58100	26.272	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	58100	64.802	ug/l #	12

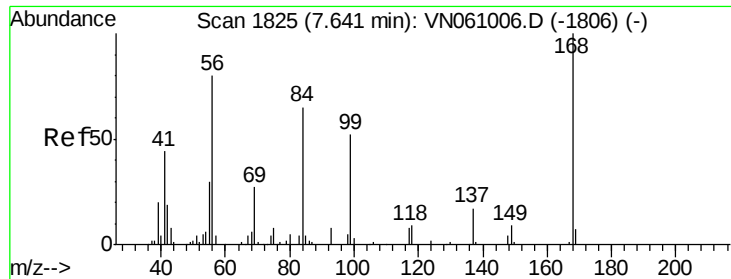
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

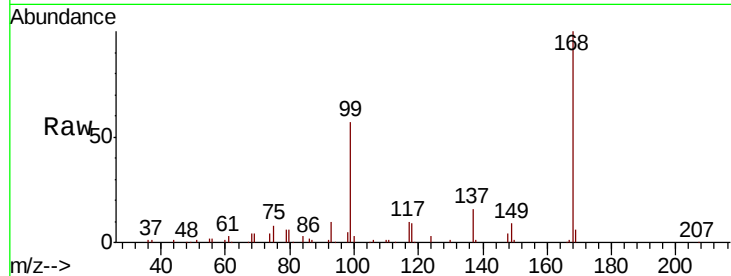
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 147197

Ion Ratio Lower Upper

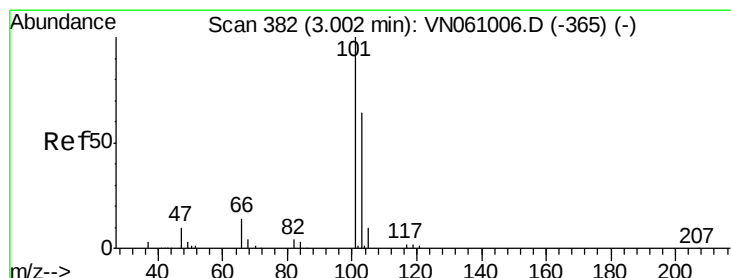
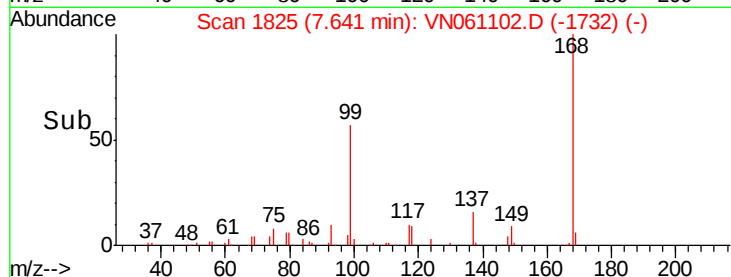
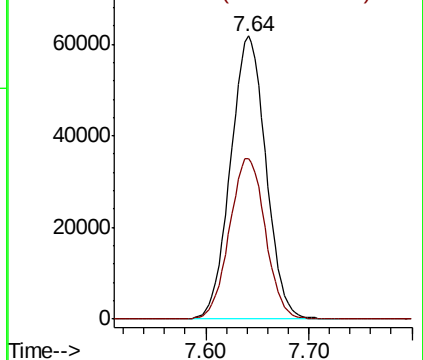
168 100

99 56.8 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#7

Trichlorofluoromethane

Concen: 0.641 ug/l

RT: 3.01 min Scan# 384

Delta R.T. 0.01 min

Lab File: VN061102.D

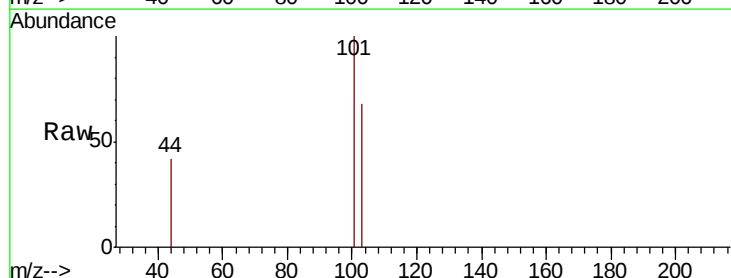
Acq: 20 Apr 2020 15:29

Tgt Ion:101 Resp: 1731

Ion Ratio Lower Upper

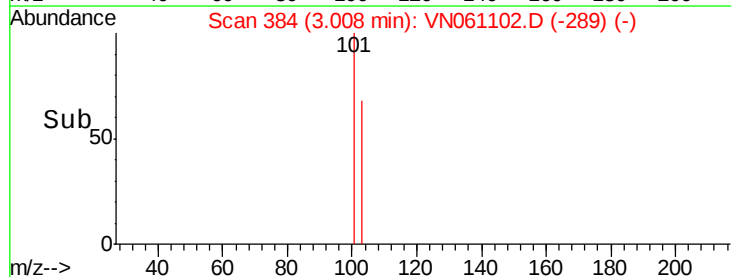
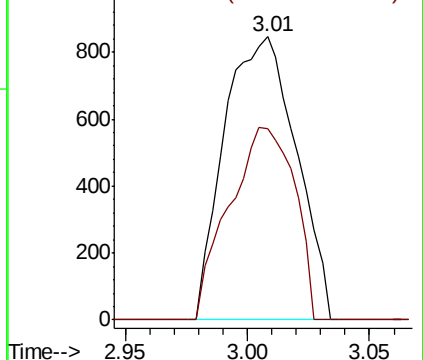
101 100

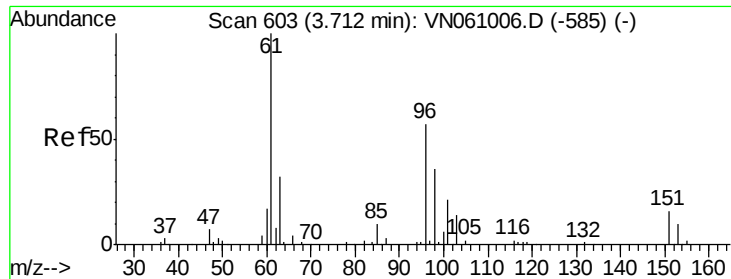
103 67.7 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#12

1,1-Dichloroethene

Concen: 0.578 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampled :

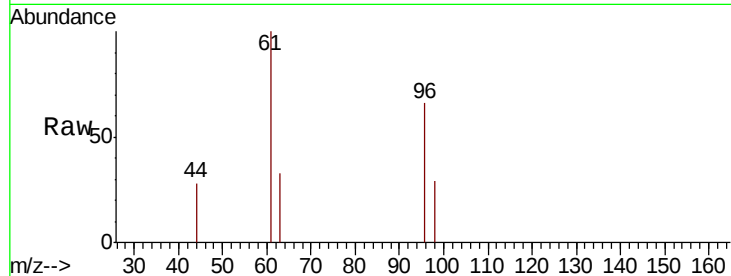
Tot Ion: 96 Resp: 931

Ion Ratio Lower Upper

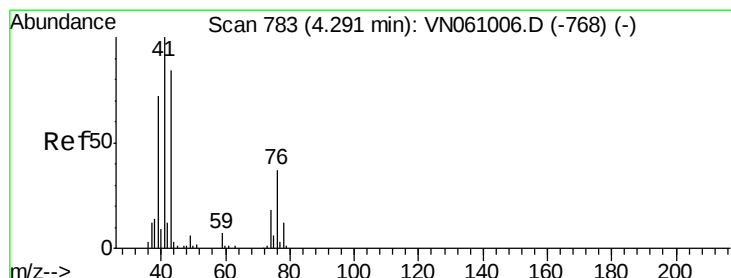
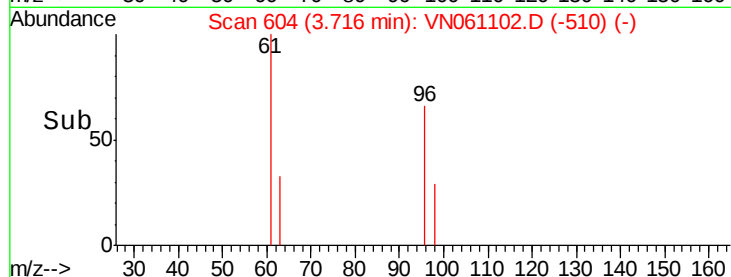
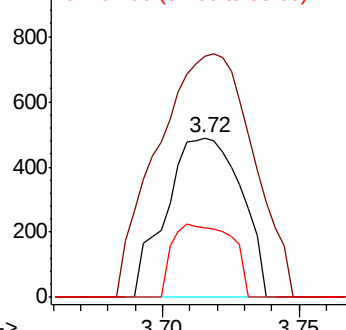
96 100

61 115.7 139.2 208.8#

98 43.6 50.0 75.0#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#14

Allyl chloride

Concen: 0.318 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.28 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

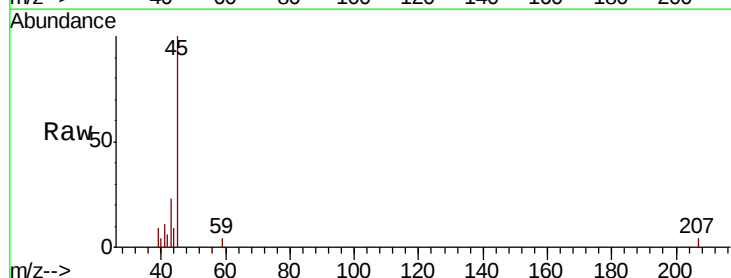
Tgt Ion: 41 Resp: 969

Ion Ratio Lower Upper

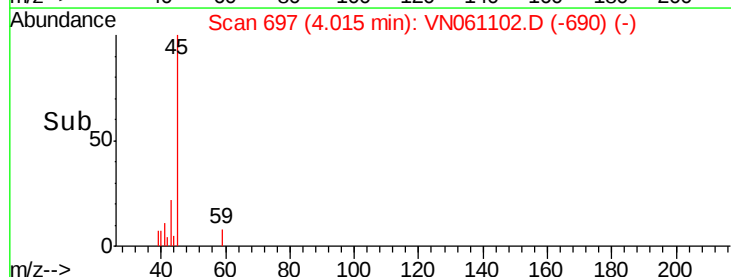
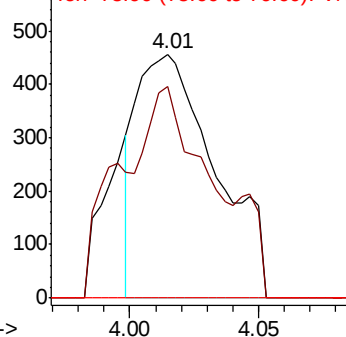
41 100

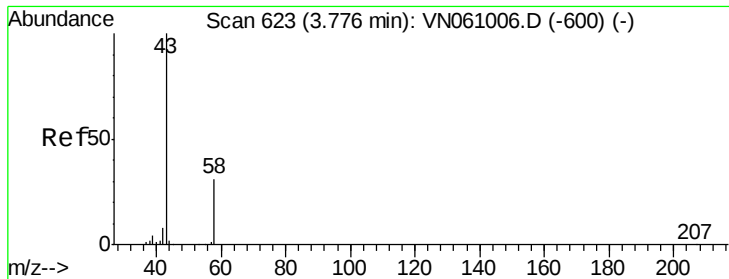
39 24.6 56.3 84.5#

76 0.0 27.7 41.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 0.329 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

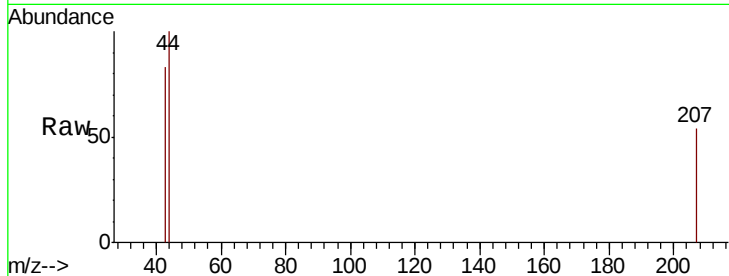
ClientSampled :

Tot Ion: 43 Resp: 273

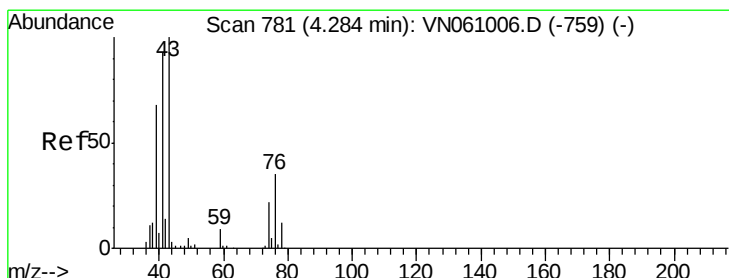
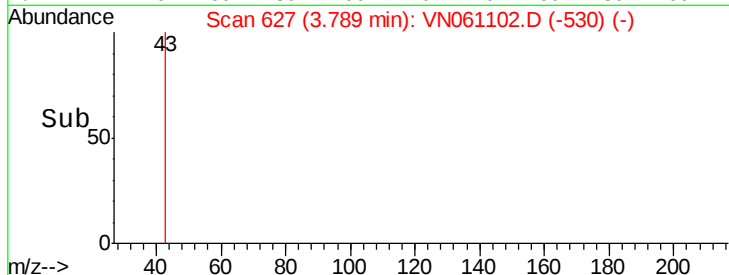
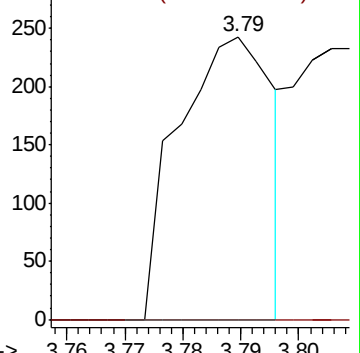
Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061102.D (-530) (-)



#18

Methyl Acetate

Concen: 0.991 ug/l

RT: 4.01 min Scan# 696

Delta R.T. -0.27 min

Lab File: VN061102.D

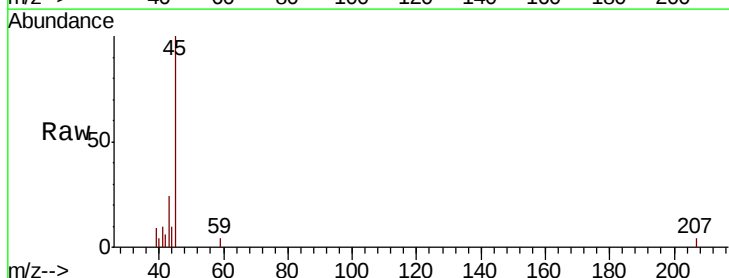
Acq: 20 Apr 2020 15:29

Tgt Ion: 43 Resp: 2577

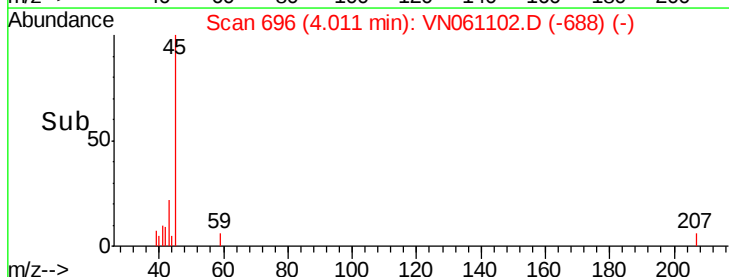
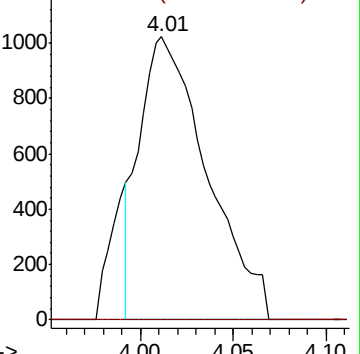
Ion Ratio Lower Upper

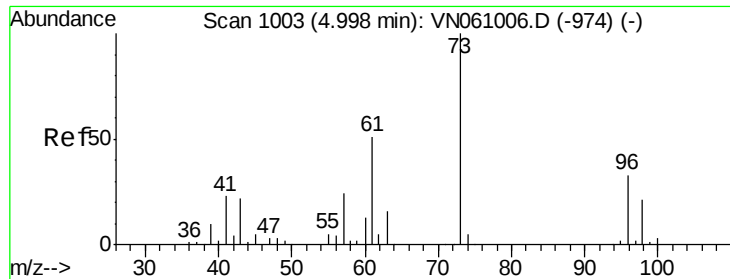
43 100

74 0.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061102.D (-688) (-)

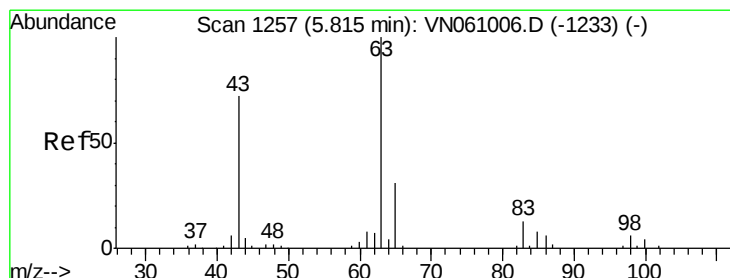
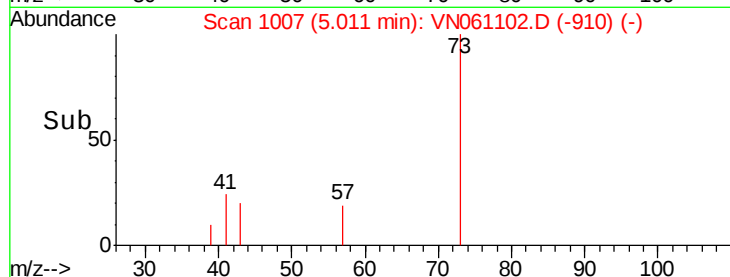
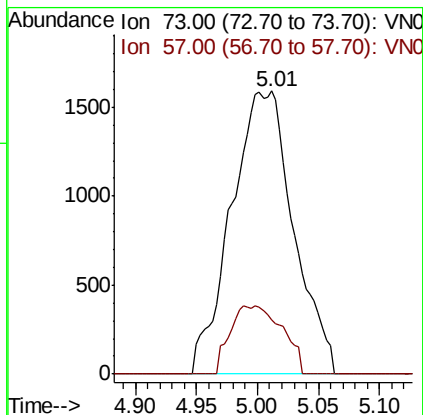
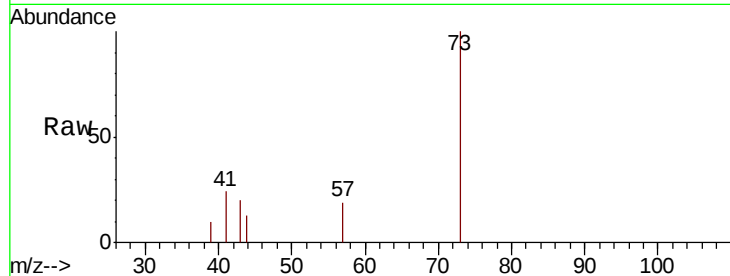




#19
Methvl tert-butvl Ether
Concen: 1.001 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.01 min
Lab File: VN061102.D
Acq: 20 Apr 2020 15:29

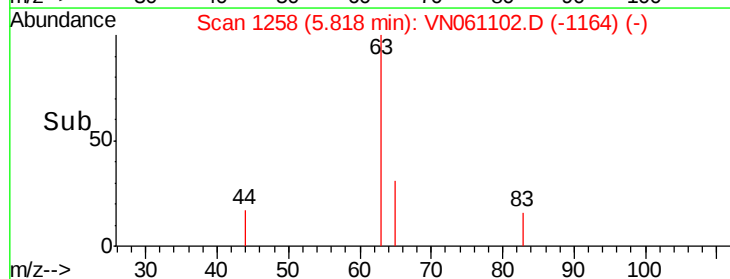
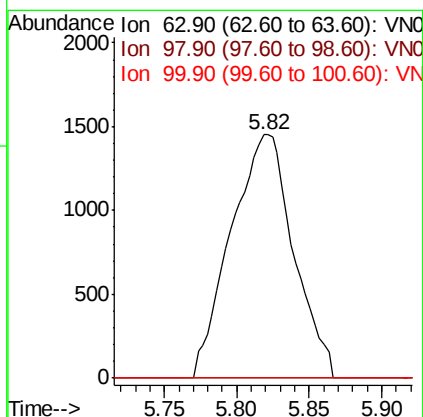
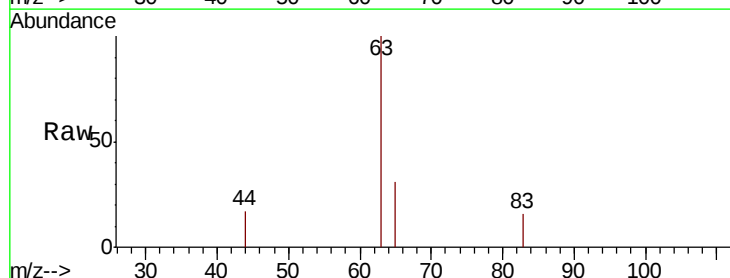
Instrument :
MSVOA_N
ClientSampled :

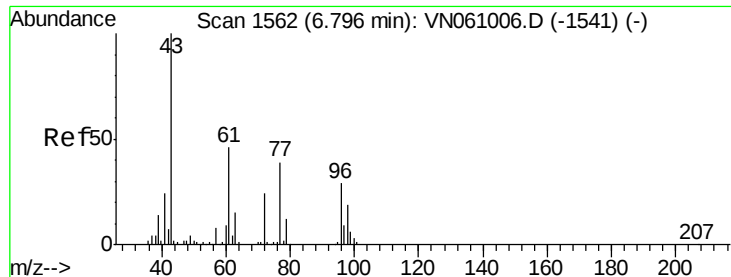
Tot Ion: 73 Resp: 5623
Ion Ratio Lower Upper
73 100
57 19.2 19.0 28.4



#24
1,1-Dichloroethane
Concen: 1.274 ug/l
RT: 5.82 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VN061102.D
Acq: 20 Apr 2020 15:29

Tgt Ion: 63 Resp: 4355
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 2.0 5.8#

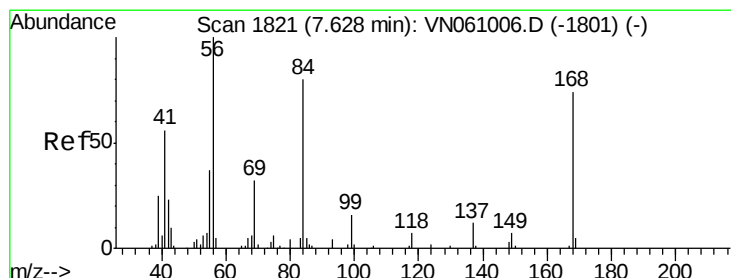
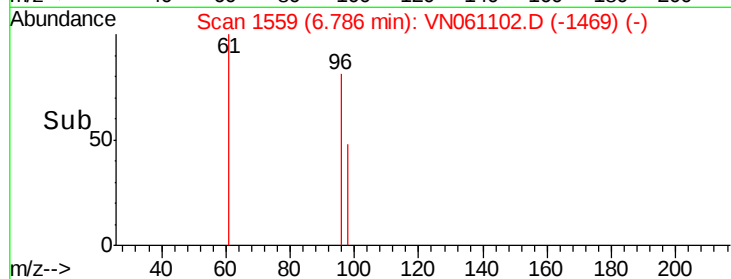
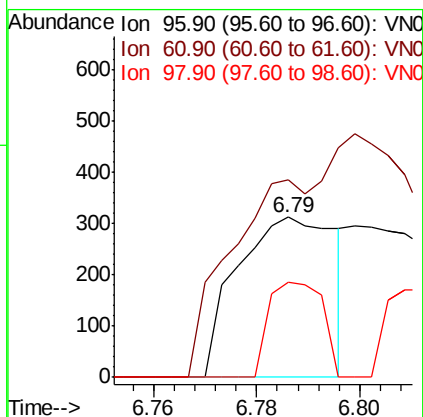
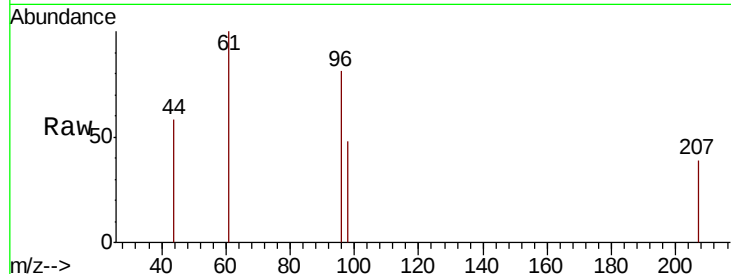




#27
 cis-1,2-Dichloroethene
 Concen: 0.208 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

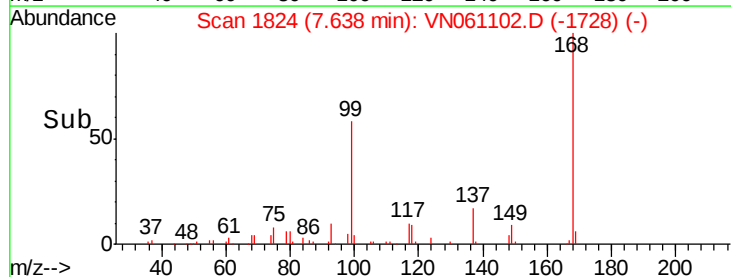
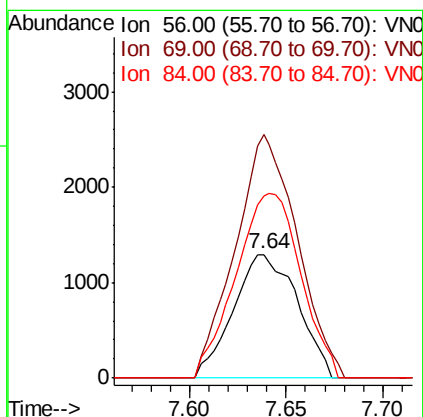
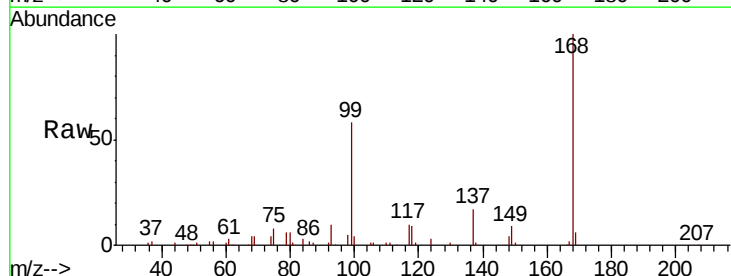
Instrument :
 MSVOA_N
 ClientSampleId :

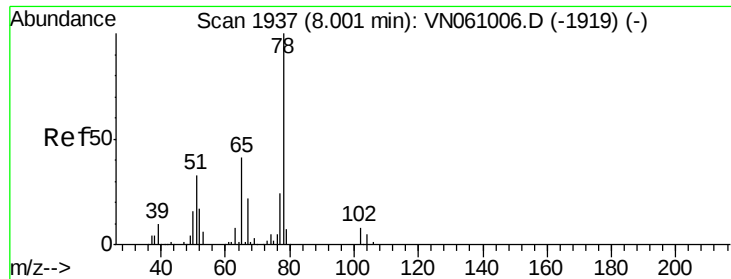
Tot Ion: 96 Resp: 412
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 317.4
 98 32.5 0.0 127.8



#31
 Cyclohexane
 Concen: 0.850 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. 0.01 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

Tgt Ion: 56 Resp: 2982
 Ion Ratio Lower Upper
 56 100
 69 196.8 25.6 38.4#
 84 147.8 63.4 95.2#





#33

1,2-Dichloroethane-d4

Concen: 54.053 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

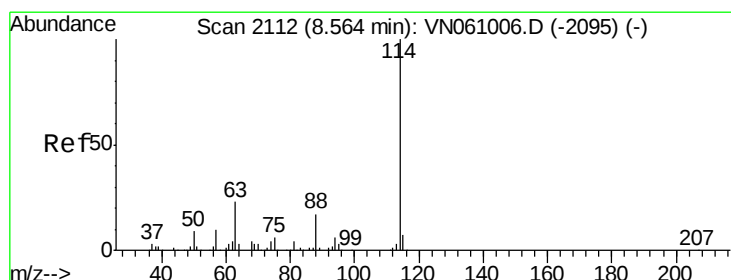
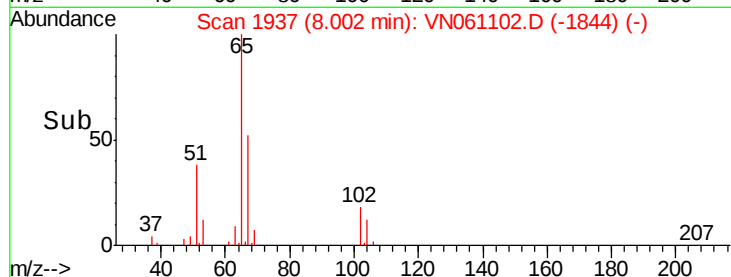
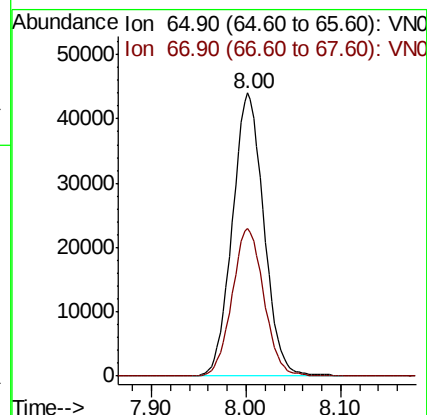
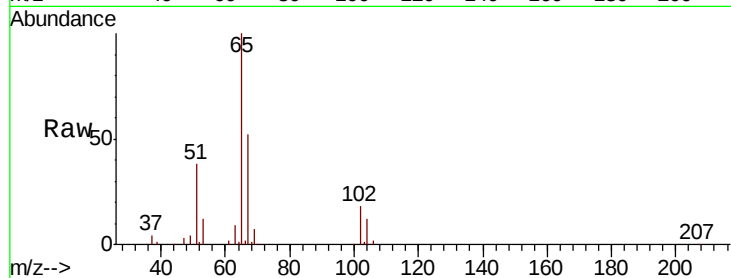
ClientSampleId :

Tot Ion: 65 Resp: 101797

Ion Ratio Lower Upper

65 100

67 52.4 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

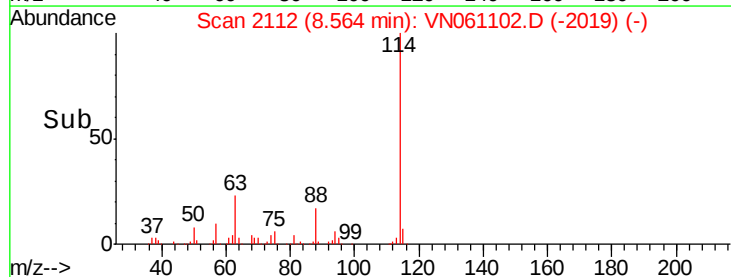
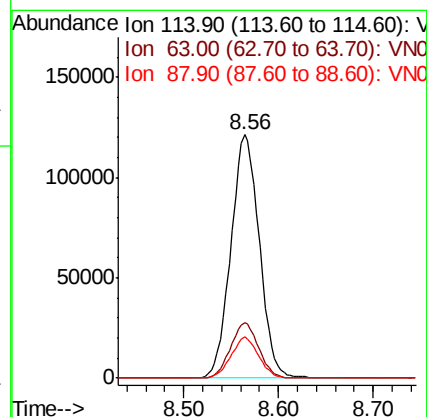
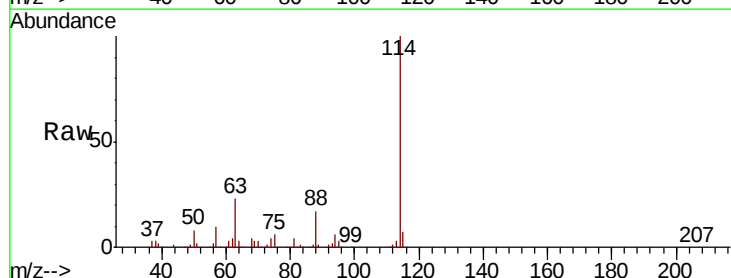
Tgt Ion: 114 Resp: 253589

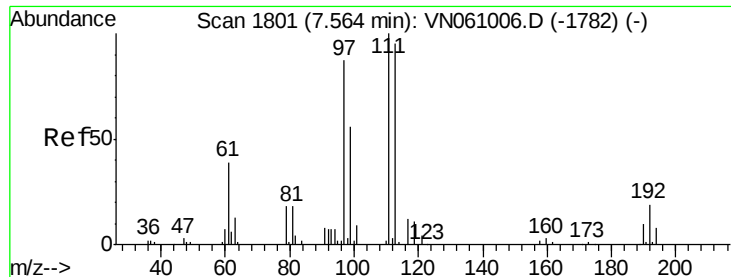
Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.2

88 16.8 0.0 33.4

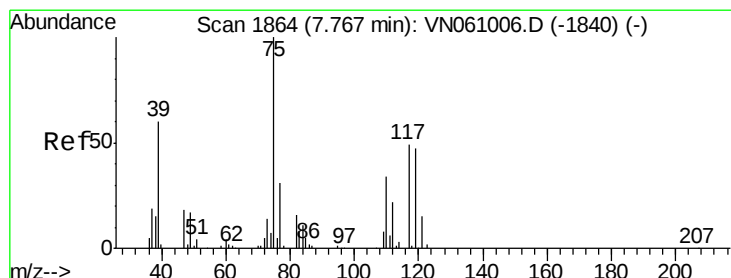
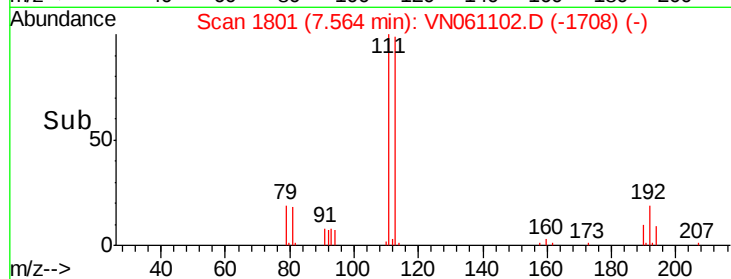
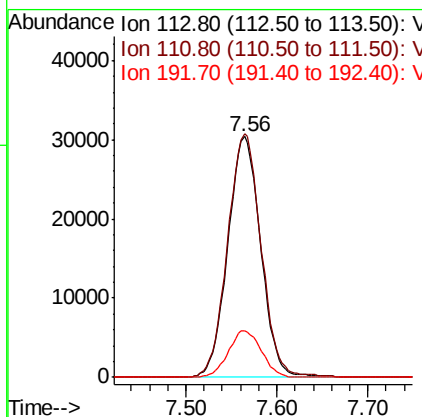
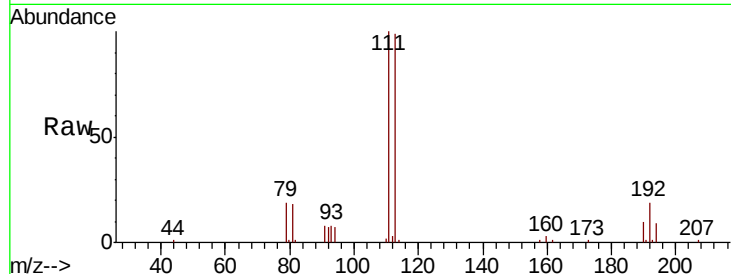




#35
 Dibromofluoromethane
 Concen: 51.586 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

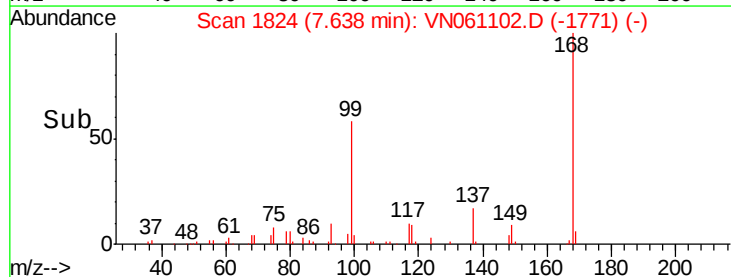
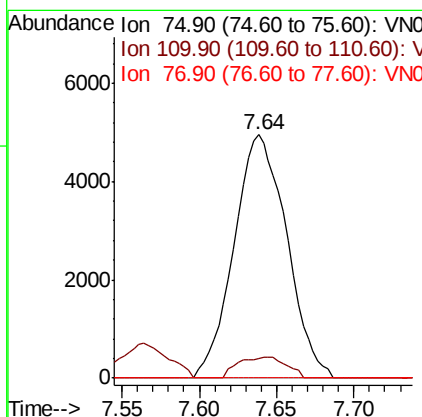
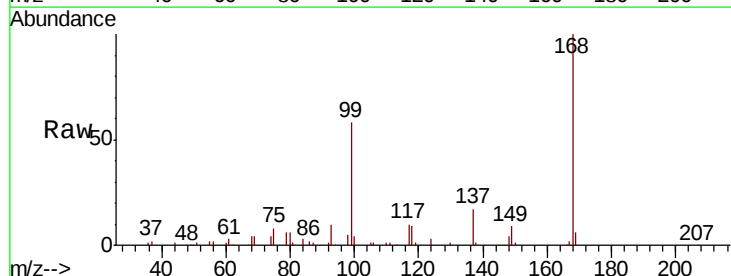
Instrument :
 MSVOA_N
 ClientSampleId :

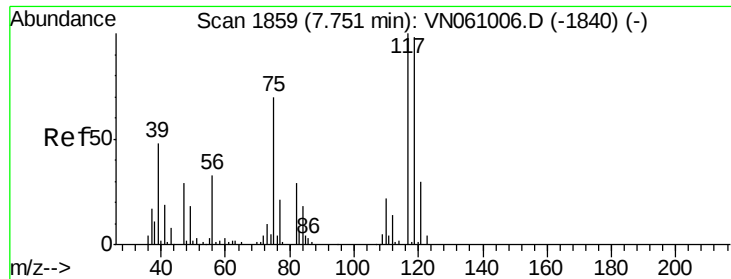
Tot Ion:113 Resp: 76395
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.4 125.2
 192 19.3 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.475 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

Tgt Ion: 75 Resp: 11711
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.8 50.3#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.579 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampled :

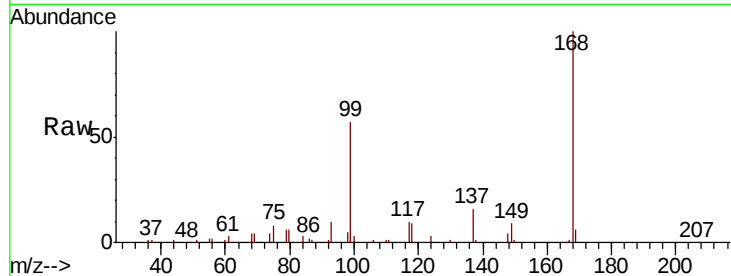
Tot Ion:117 Resp: 14330

Ion Ratio Lower Upper

117 100

119 5.0 78.1 117.1#

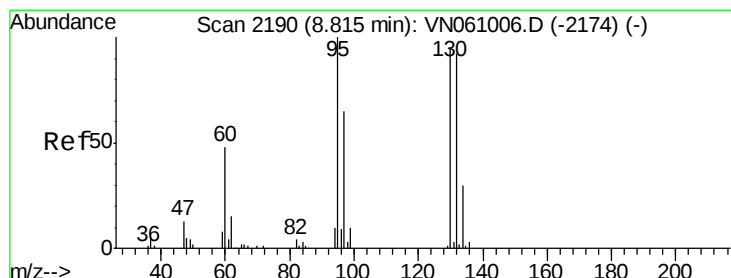
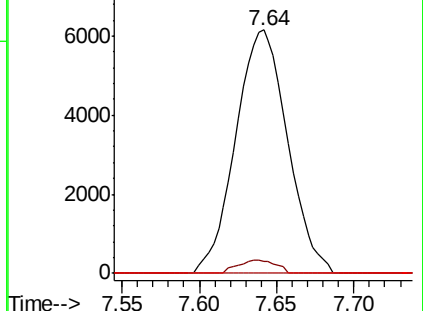
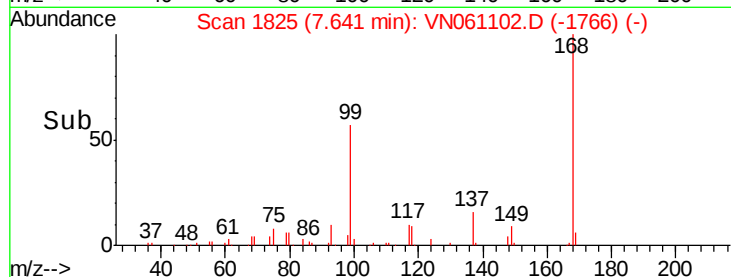
121 0.0 24.0 36.0#



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: 6.115 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VN061102.D

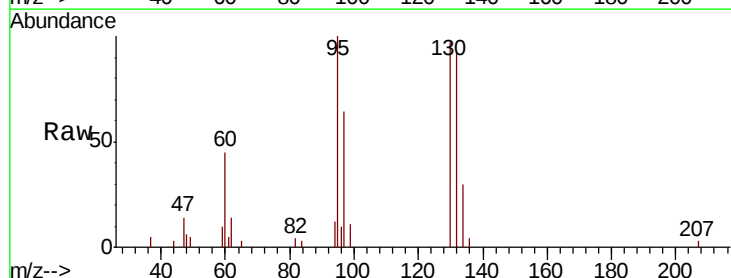
Acq: 20 Apr 2020 15:29

Tgt Ion:130 Resp: 11929

Ion Ratio Lower Upper

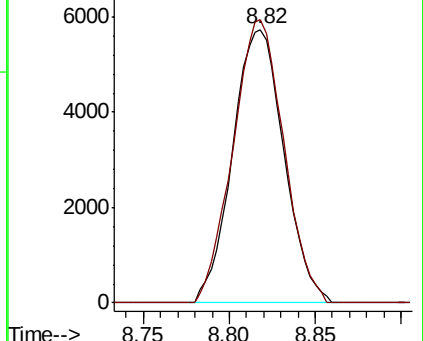
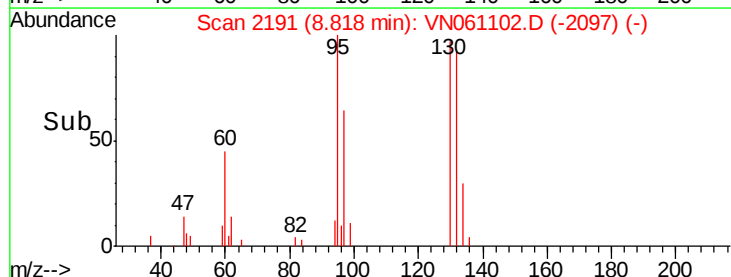
130 100

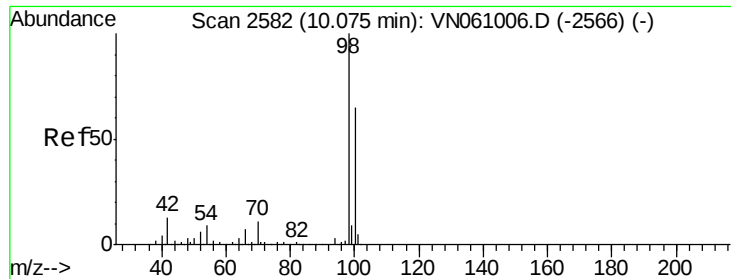
95 103.5 0.0 210.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 55.471 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

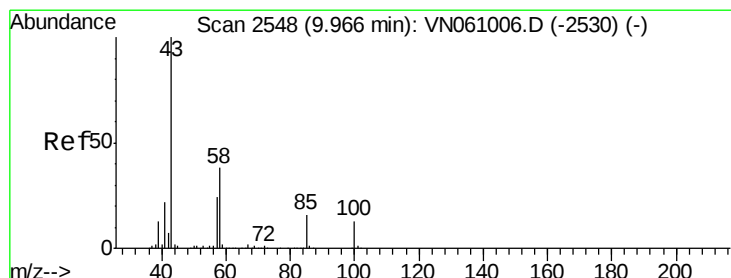
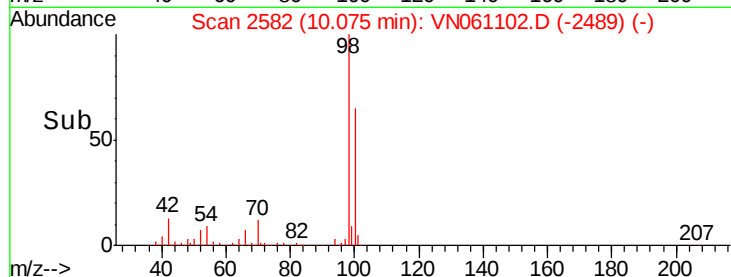
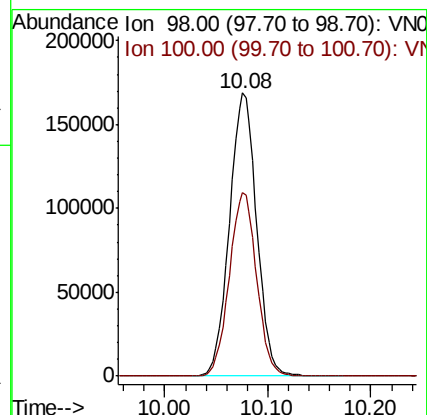
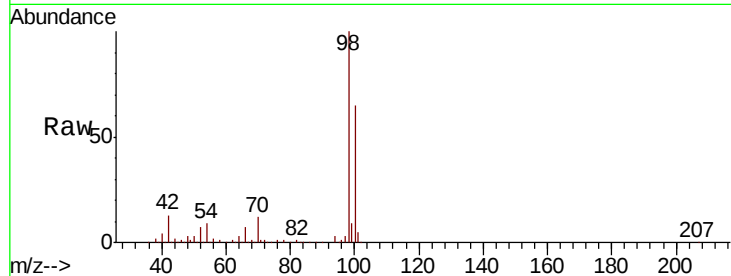
ClientSampleId :

Tot Ion: 98 Resp: 310420

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.530 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.11 min

Lab File: VN061102.D

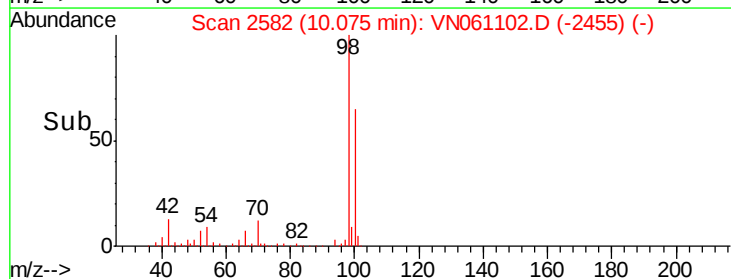
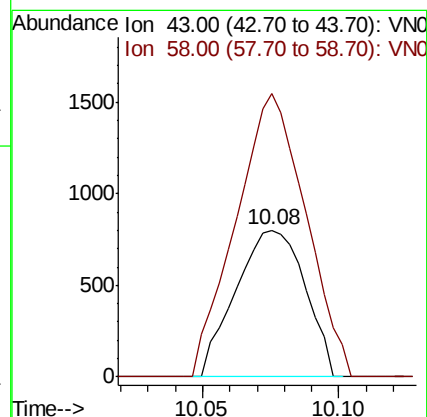
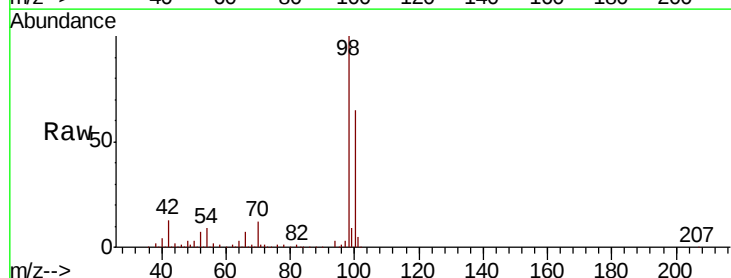
Acq: 20 Apr 2020 15:29

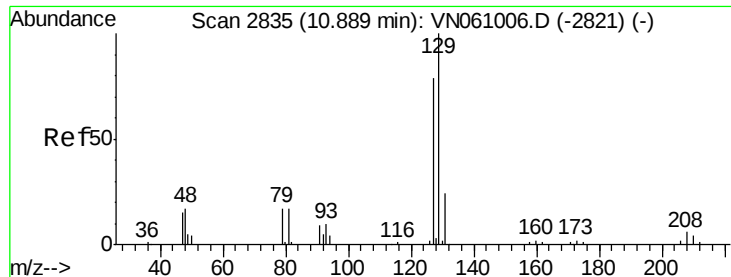
Tgt Ion: 43 Resp: 1413

Ion Ratio Lower Upper

43 100

58 194.2 30.3 45.5#

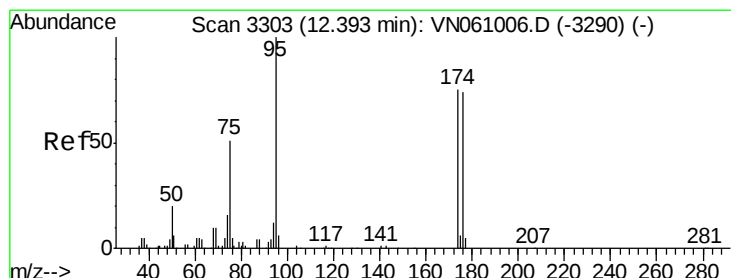
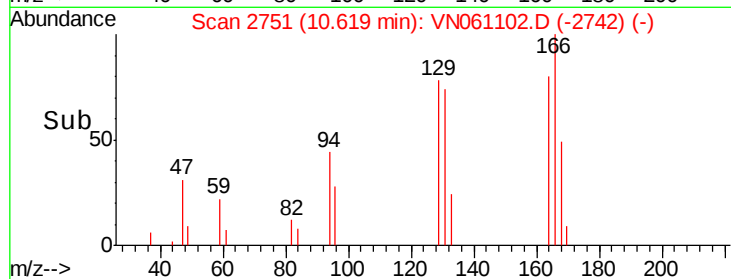
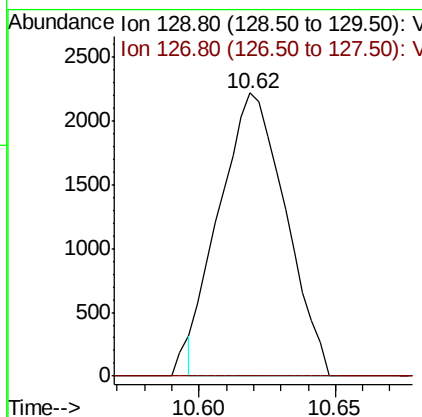
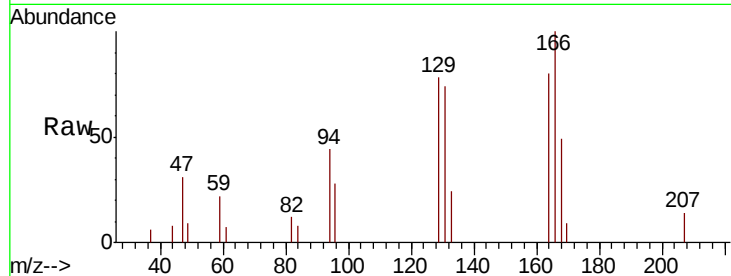




#60
 Dibromochloromethane
 Concen: 2.061 ug/l
 RT: 10.62 min Scan# 2751
 Delta R.T. -0.27 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

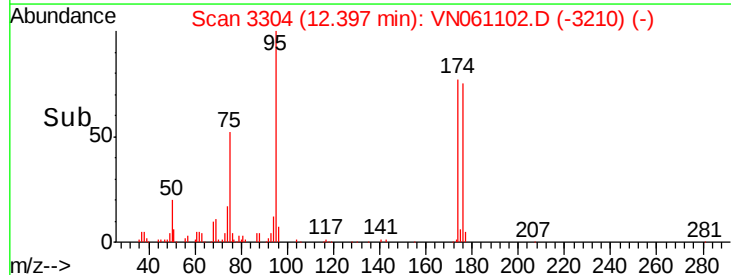
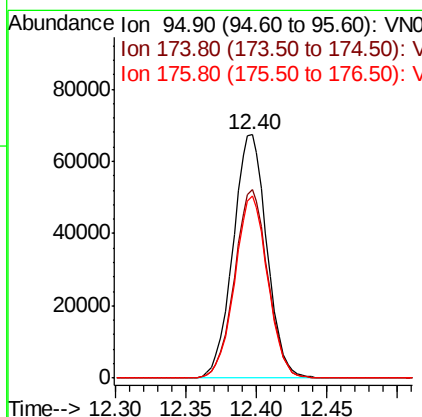
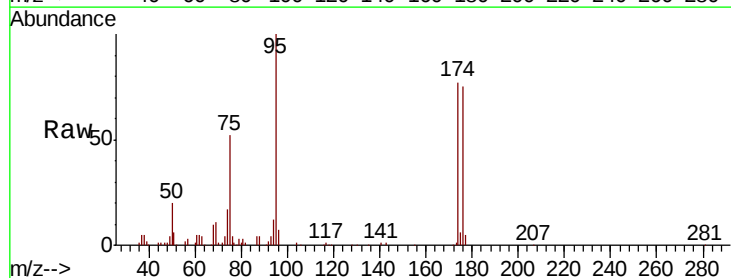
Instrument :
 MSVOA_N
 ClientSampled :

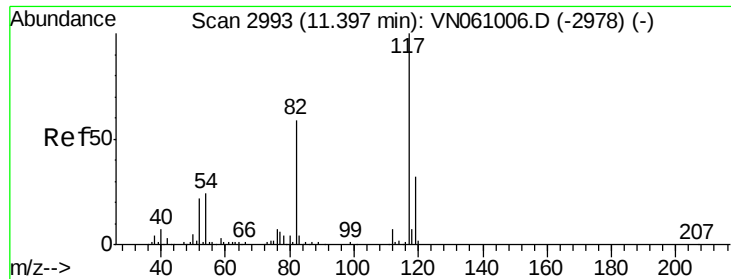
Tot Ion: 129 Resp: 3732
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.0 116.9#



#62
 4-Bromofluorobenzene
 Concen: 51.508 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN061102.D
 Acq: 20 Apr 2020 15:29

Tgt Ion: 95 Resp: 112972
 Ion Ratio Lower Upper
 95 100
 174 76.0 0.0 151.2
 176 73.2 0.0 148.2

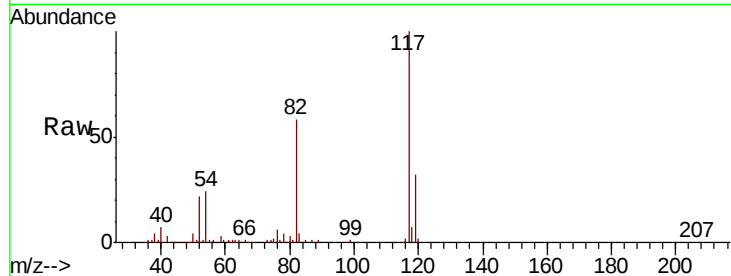




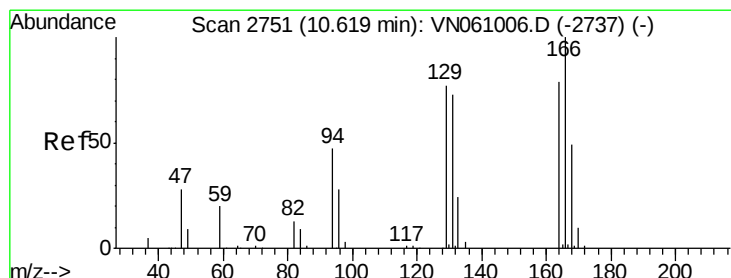
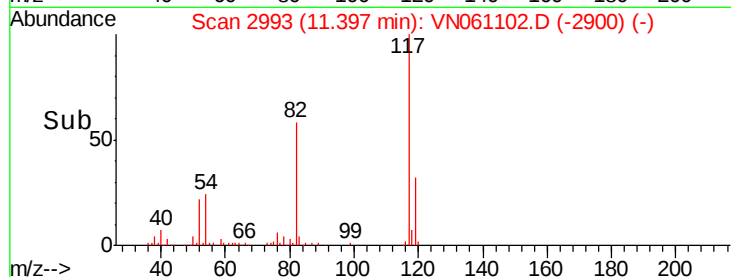
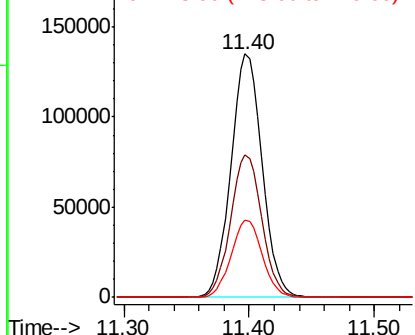
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061102.D
Acq: 20 Apr 2020 15:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 233196
Ion Ratio Lower Upper
117 100
82 58.5 47.1 70.7
119 31.6 25.7 38.5

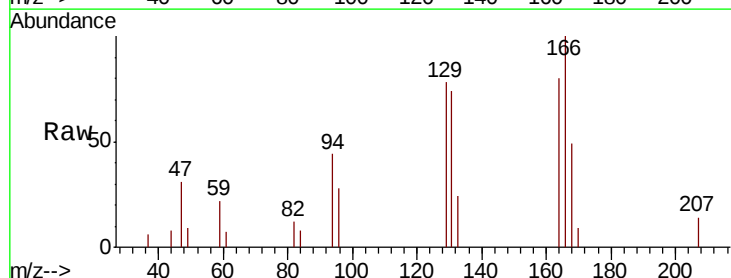


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

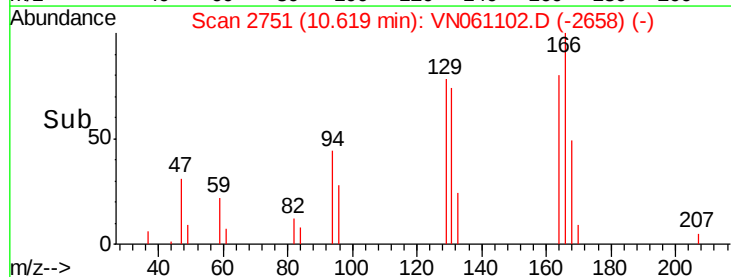
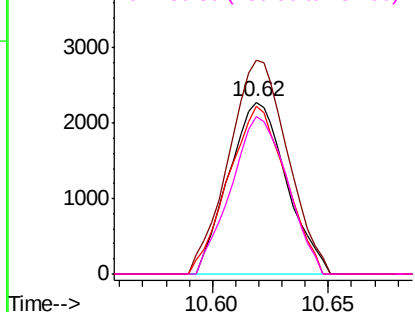


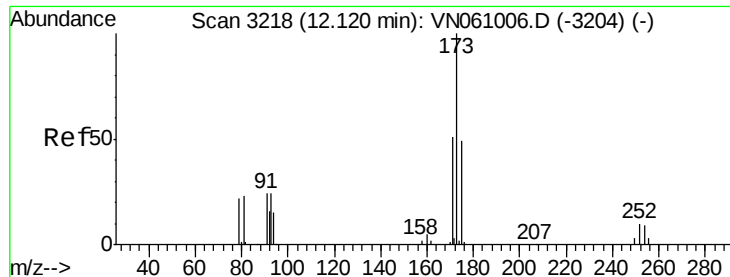
#64
Tetrachloroethene
Concen: 2.207 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. 0.00 min
Lab File: VN061102.D
Acq: 20 Apr 2020 15:29

Tgt Ion:164 Resp: 3939
Ion Ratio Lower Upper
164 100
166 124.3 101.6 152.4
129 97.3 78.5 117.7
131 91.6 74.3 111.5



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





#71

Bromoform

Concen: 0.323 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

ClientSampled :

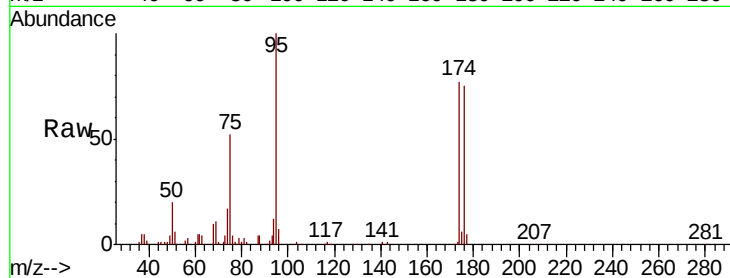
Tot Ion:173 Resp: 415

Ion Ratio Lower Upper

173 100

175 1341.0 24.5 73.5#

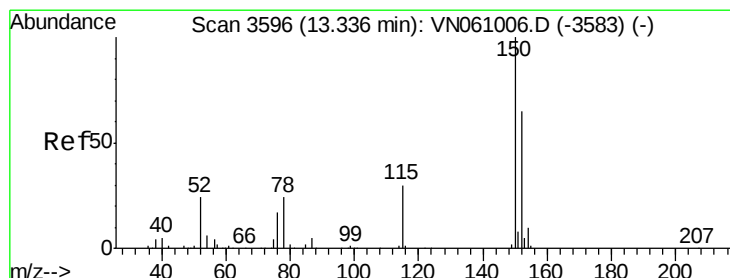
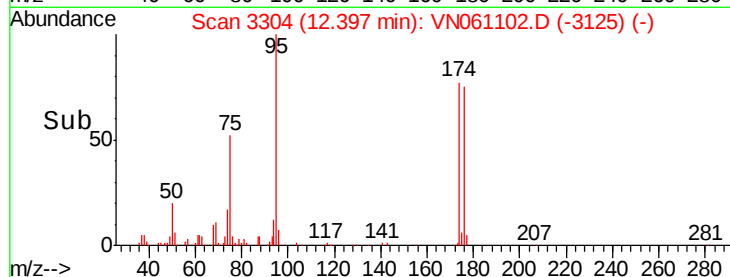
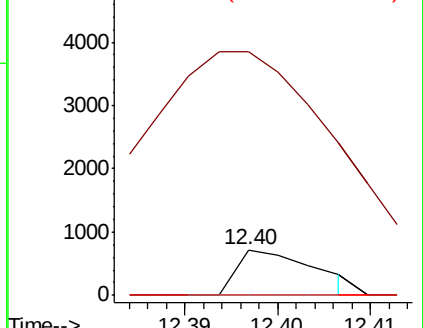
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

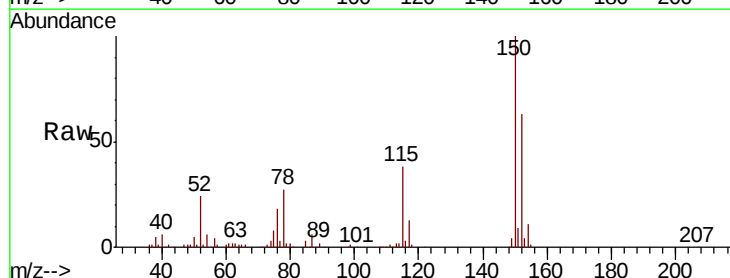
Tgt Ion:152 Resp: 100541

Ion Ratio Lower Upper

152 100

115 60.1 30.8 92.4

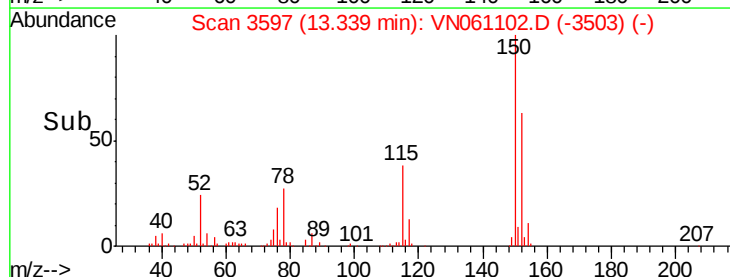
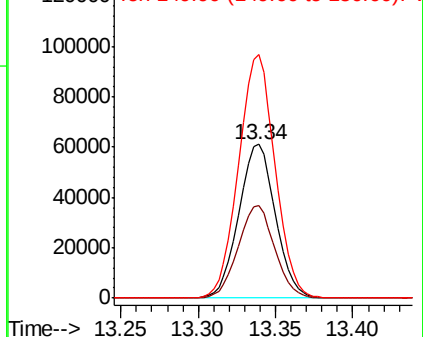
150 158.1 0.0 349.0

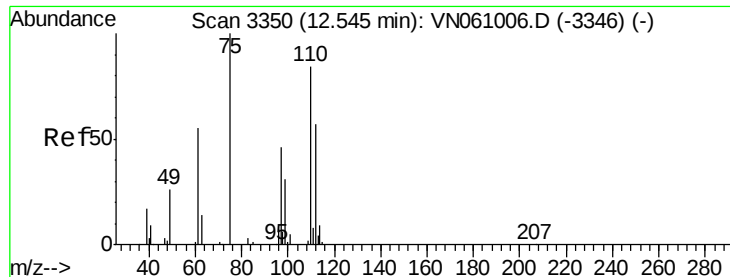


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.272 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

Instrument :

MSVOA_N

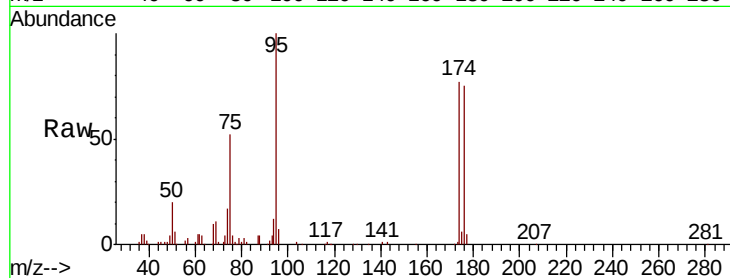
ClientSampleId :

Tot Ion: 75 Resp: 58100

Ion Ratio Lower Upper

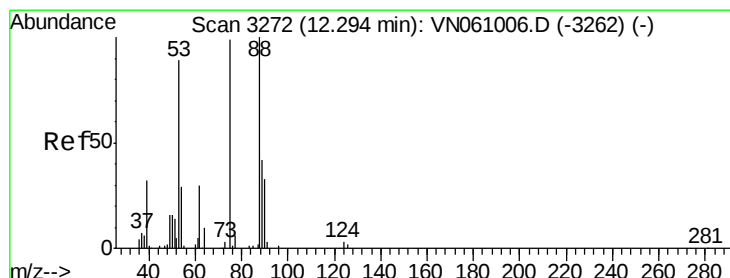
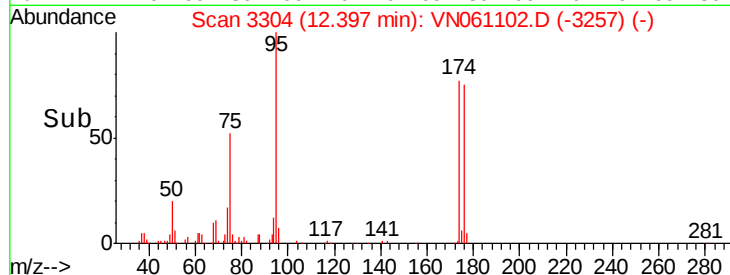
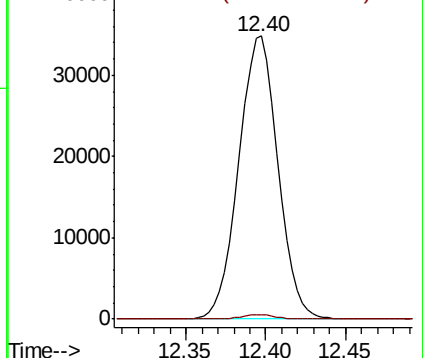
75 100

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: 64.802 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN061102.D

Acq: 20 Apr 2020 15:29

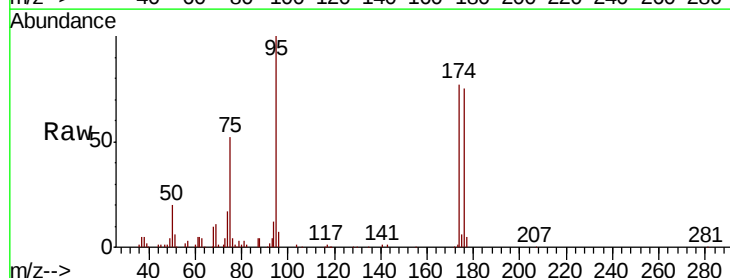
Tgt Ion: 75 Resp: 58100

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#



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

