

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041720\
 Data File : VN061070.D
 Acq On : 17 Apr 2020 23:19
 Operator : JC/MD
 Sample : L2338-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 20 01:39:11 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	141253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	240243	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	218021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	94048	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	96424	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
35) Dibromofluoromethane	7.56	113	72921	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
50) Toluene-d8	10.08	98	297146	56.05	ug/l	0.00
Spiked Amount			Recovery	=	112.10%	
62) 4-Bromofluorobenzene	12.40	95	106404	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	

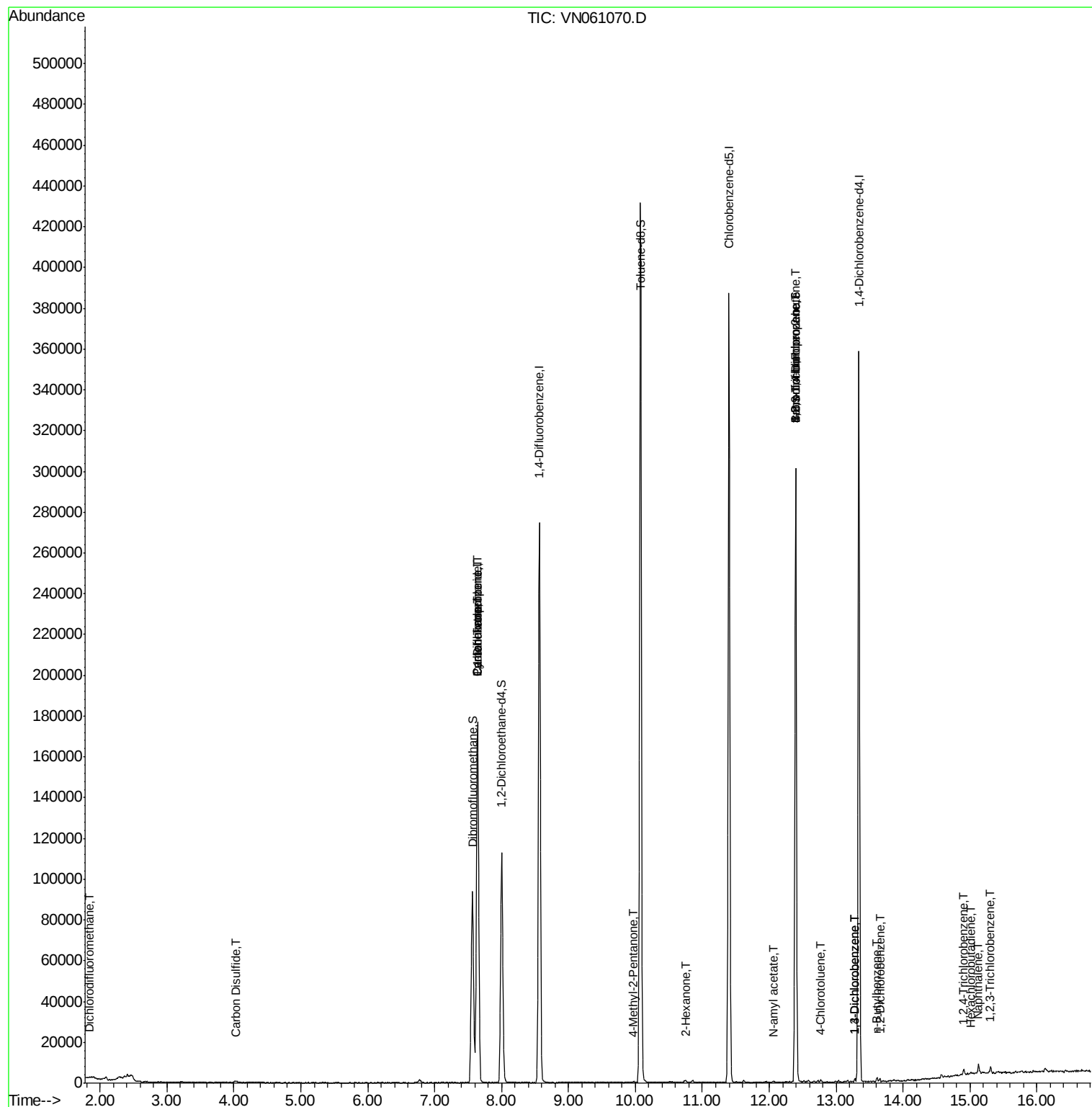
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	29	0.381	ug/l #	42
17) Carbon Disulfide	4.03	76	1344	0.278	ug/l #	74
31) Cyclohexane	7.64	56	3275	0.973	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11408	4.602	ug/l #	50
38) Carbon Tetrachloride	7.64	117	14002	6.785	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	516	0.204	ug/l #	37
59) 2-Hexanone	10.74	43	977	0.537	ug/l	69
71) Bromoform	12.39	173	253	0.210	ug/l #	1
74) N-amyl acetate	12.07	43	819	0.234	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	54621	26.404	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	54621	65.127	ug/l #	12
82) 4-Chlorotoluene	12.77	91	1137	0.212	ug/l #	69
87) 1,3-Dichlorobenzene	13.27	146	677	0.216	ug/l	92
88) 1,4-Dichlorobenzene	13.27	146	677	0.215	ug/l	92
89) n-Butylbenzene	13.61	91	1547	0.263	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	607	0.203	ug/l #	84
93) 1,2,4-Trichlorobenzene	14.91	180	969	0.547	ug/l	90
94) Hexachlorobutadiene	15.01	225	323	0.355	ug/l #	53
95) Naphthalene	15.13	128	4182	0.810	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	1175	0.688	ug/l	90

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

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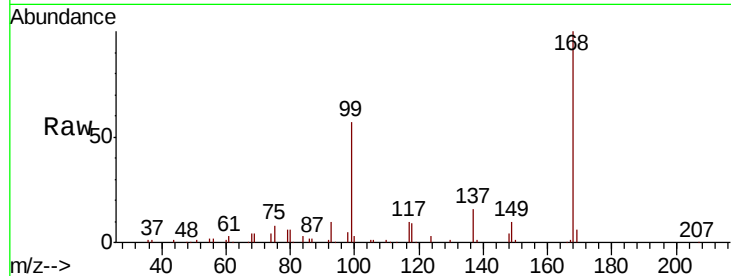




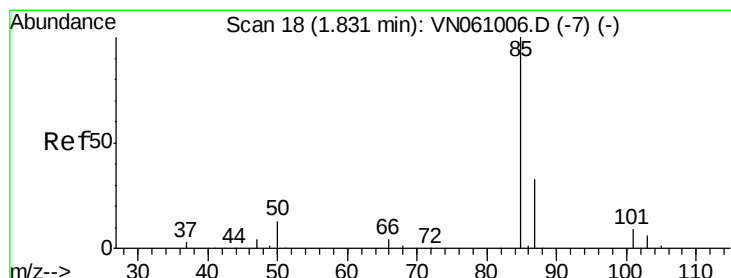
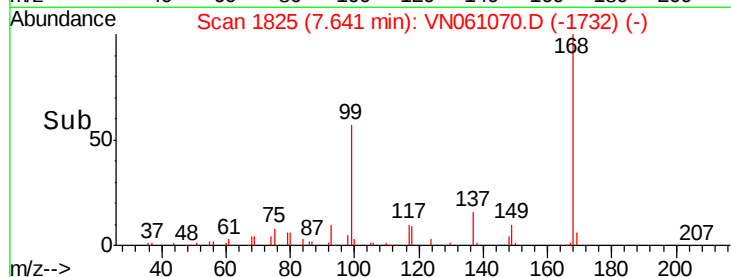
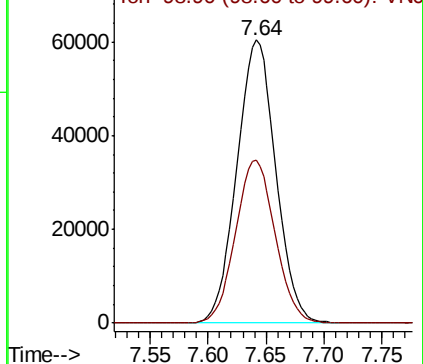
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN061070.D
Acq: 17 Apr 2020 23:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 141253
Ion Ratio Lower Upper
168 100
99 57.4 47.4 71.2

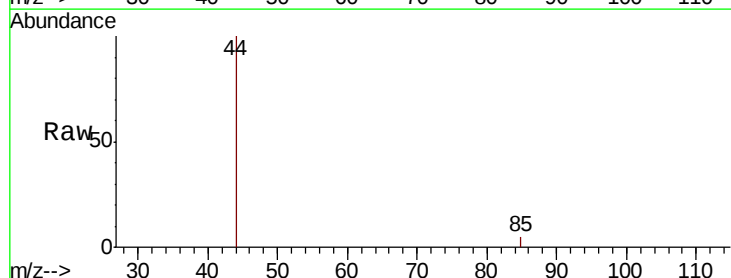


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0

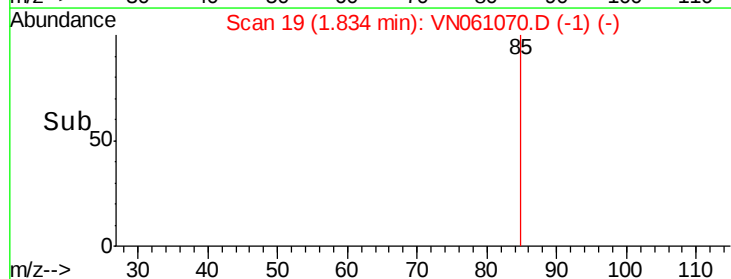
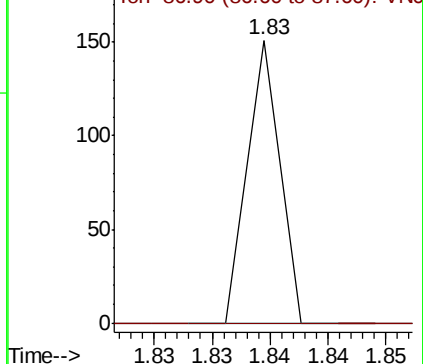


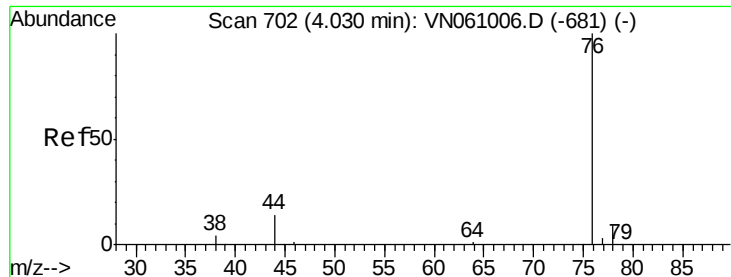
#2
Dichlorodifluoromethane
Concen: 0.381 ug/l
RT: 1.83 min Scan# 19
Delta R.T. 0.00 min
Lab File: VN061070.D
Acq: 17 Apr 2020 23:19

Tgt Ion: 85 Resp: 29
Ion Ratio Lower Upper
85 100
87 0.0 16.3 48.9#



Abundance Ion 84.90 (84.60 to 85.60): VN0
Ion 86.90 (86.60 to 87.60): VN0

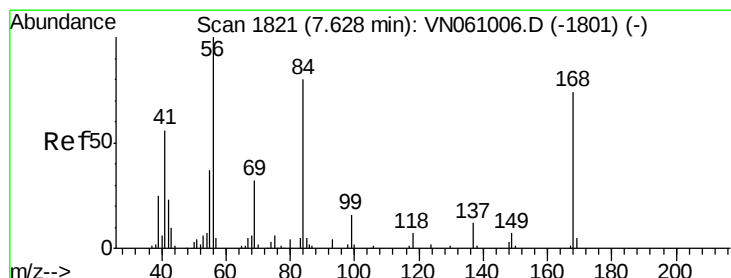
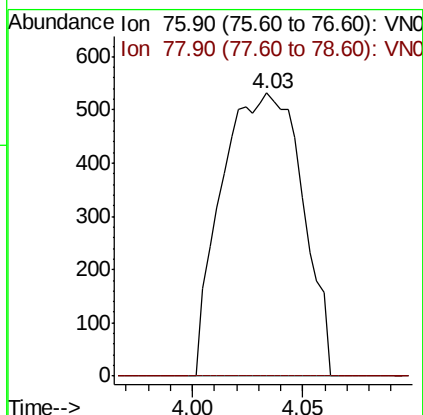
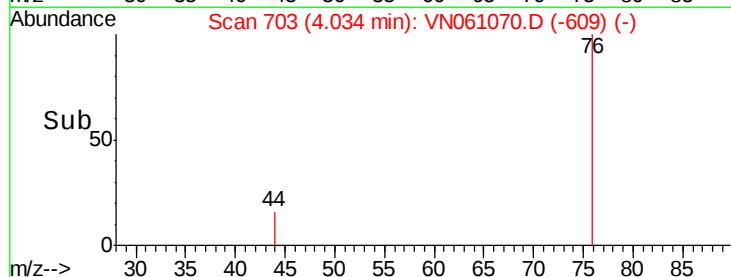
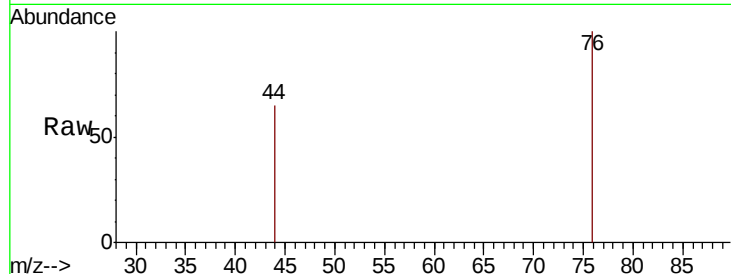




#17
Carbon Disulfide
Concen: 0.278 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN061070.D
Acq: 17 Apr 2020 23:19

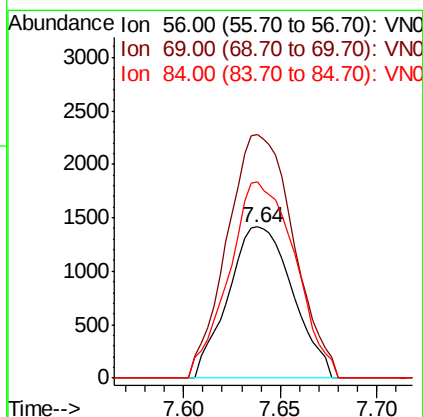
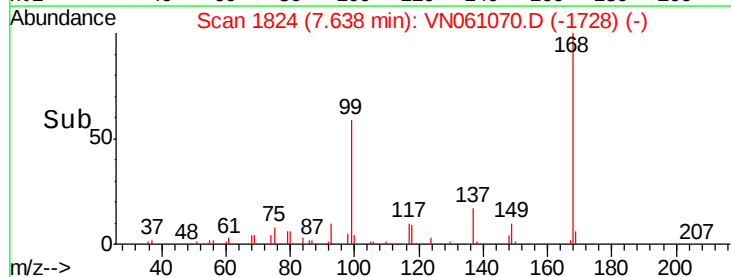
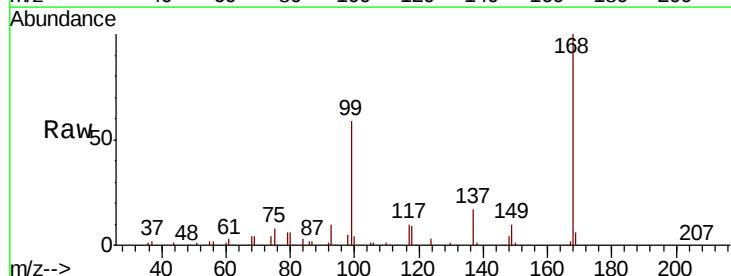
Instrument :
MSVOA_N
ClientSampleId :

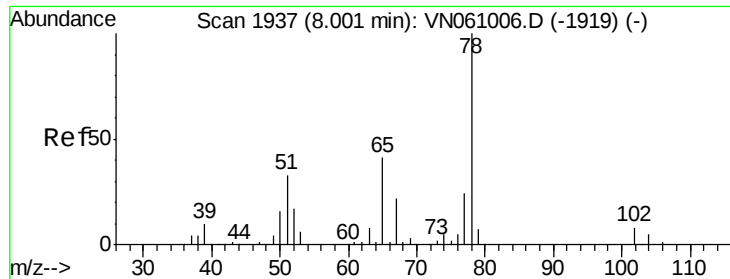
Tot Ion: 76 Resp: 1344
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#31
Cyclohexane
Concen: 0.973 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN061070.D
Acq: 17 Apr 2020 23:19

Tgt Ion: 56 Resp: 3275
Ion Ratio Lower Upper
56 100
69 161.0 25.6 38.4#
84 129.5 63.4 95.2#





#33

1,2-Dichloroethane-d4

Concen: 53.354 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

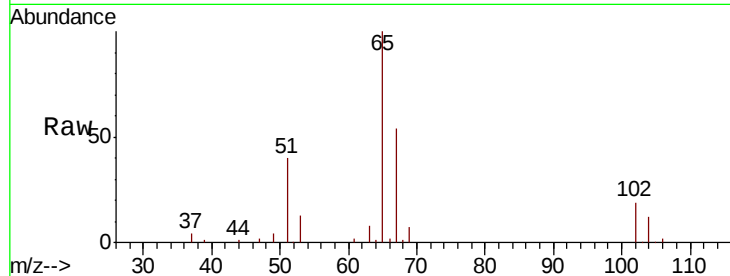
ClientSampleId :

Tot Ion: 65 Resp: 96424

Ion Ratio Lower Upper

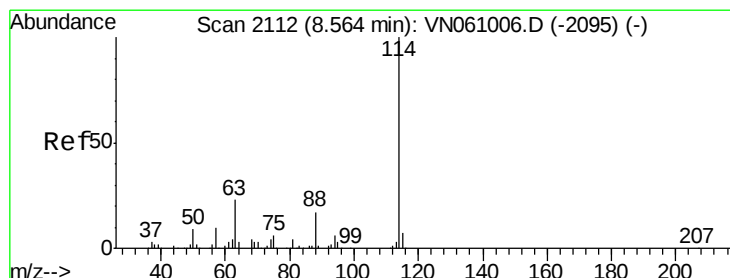
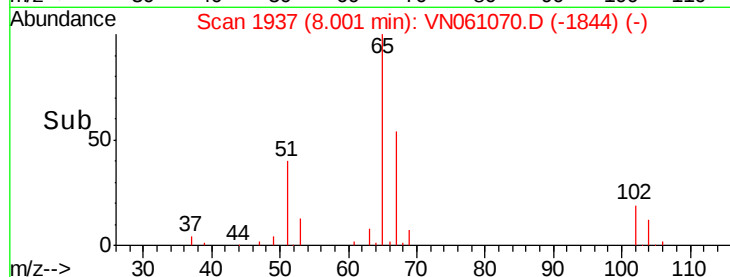
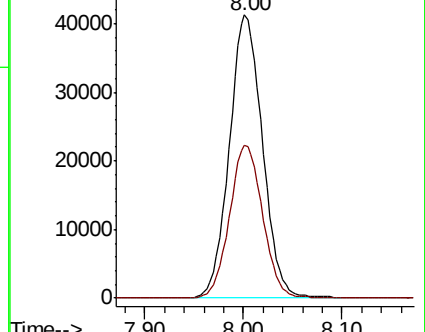
65 100

67 54.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN061006.D (-1919) (-)

Ion 66.90 (66.60 to 67.60): VN061006.D (-1919) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

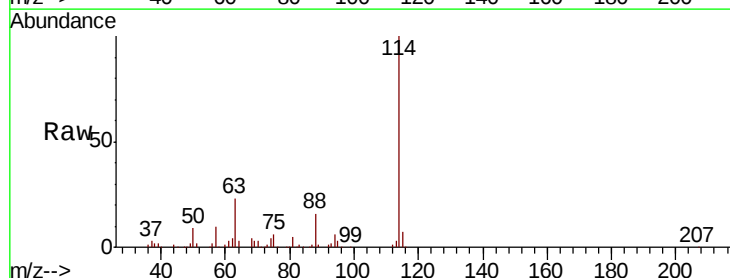
Tgt Ion: 114 Resp: 240243

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.2

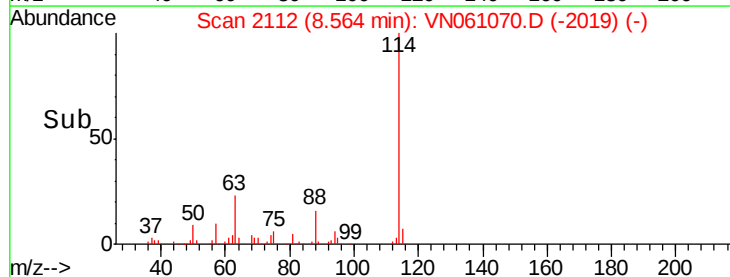
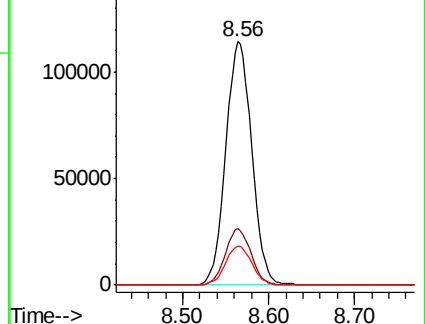
88 16.2 0.0 33.4

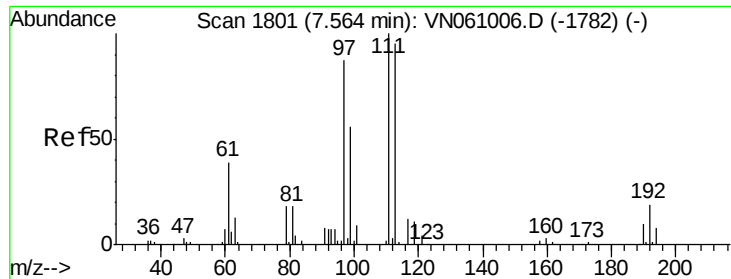


Abundance Ion 113.90 (113.60 to 114.60): VN061006.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN061006.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN061006.D (-2095) (-)

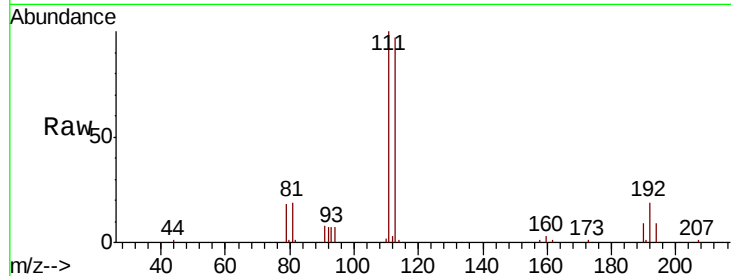




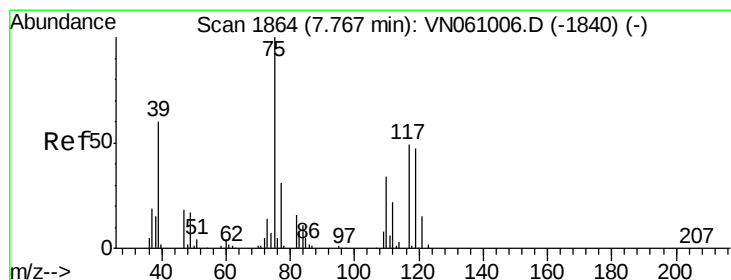
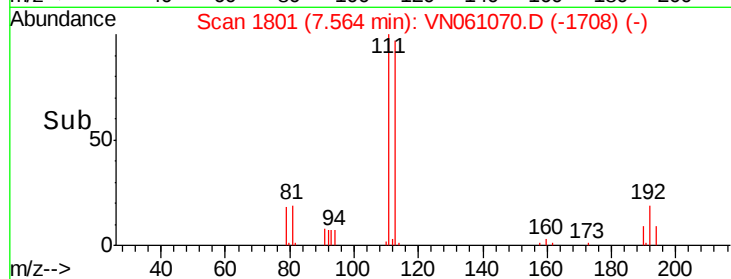
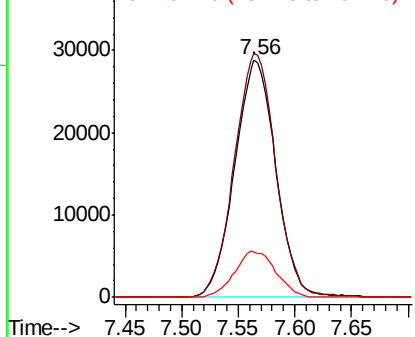
#35
 Dibromofluoromethane
 Concen: 51.975 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 72921
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.4 125.2
 192 19.4 15.5 23.3

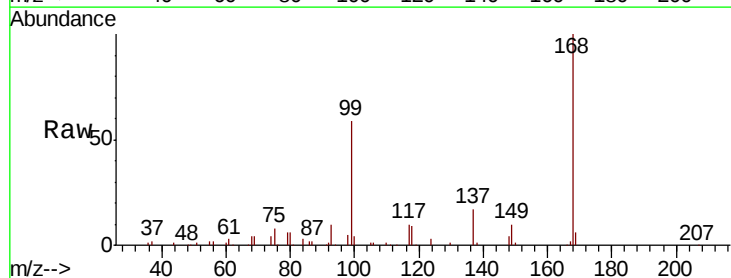


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

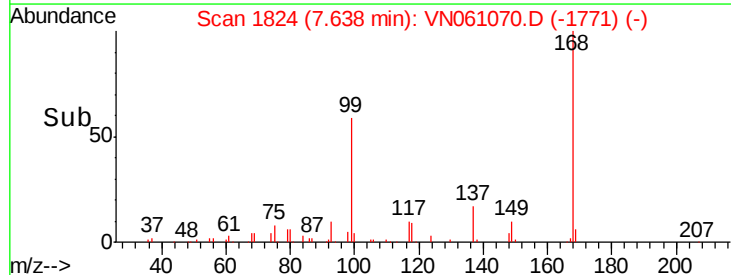
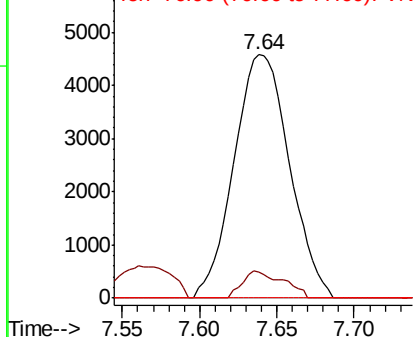


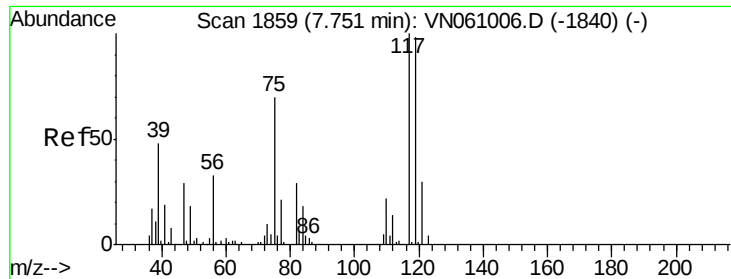
#36
 1,1-Dichloropropene
 Concen: 4.602 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Tgt Ion: 75 Resp: 11408
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.8 50.3#
 77 0.0 24.7 37.1#



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: 6.785 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampled :

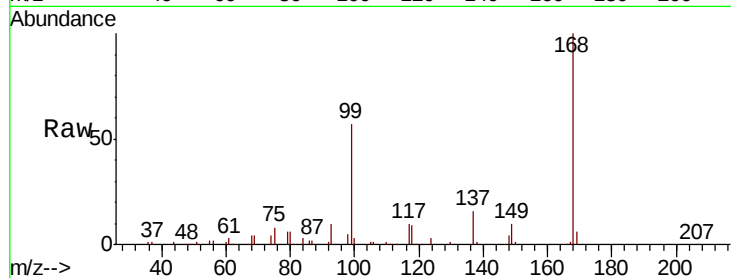
Tot Ion:117 Resp: 14002

Ion Ratio Lower Upper

117 100

119 5.0 78.1 117.1#

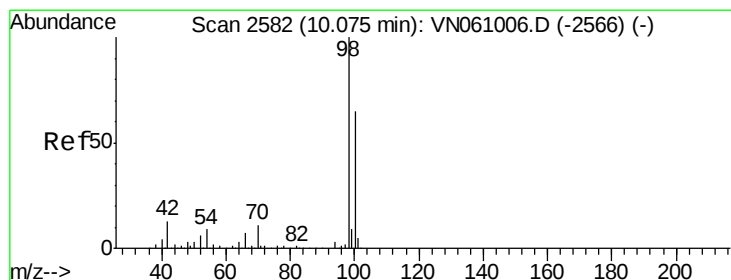
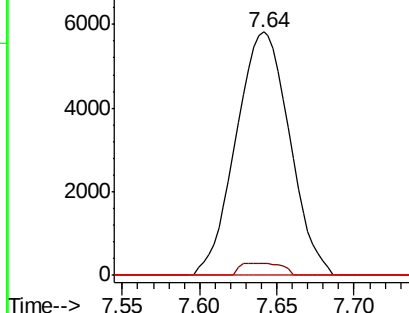
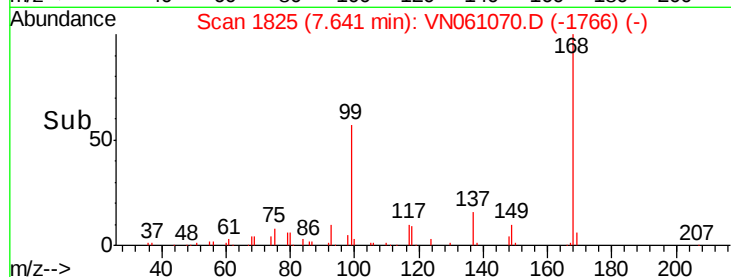
121 0.0 24.0 36.0#



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



#50

Toluene-d8

Concen: 56.048 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061070.D

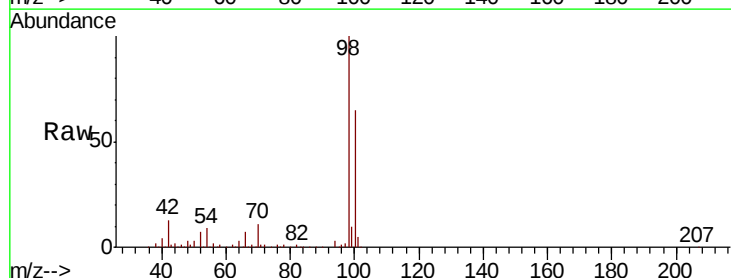
Acq: 17 Apr 2020 23:19

Tgt Ion: 98 Resp: 297146

Ion Ratio Lower Upper

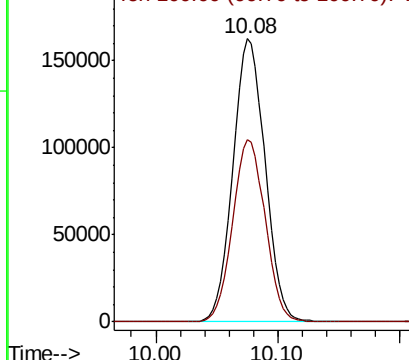
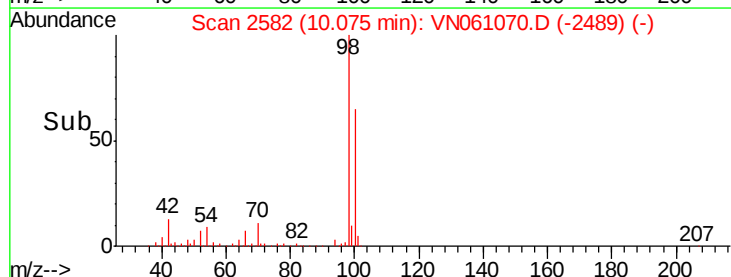
98 100

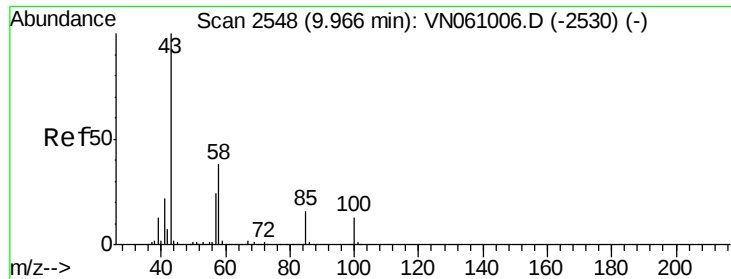
100 65.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

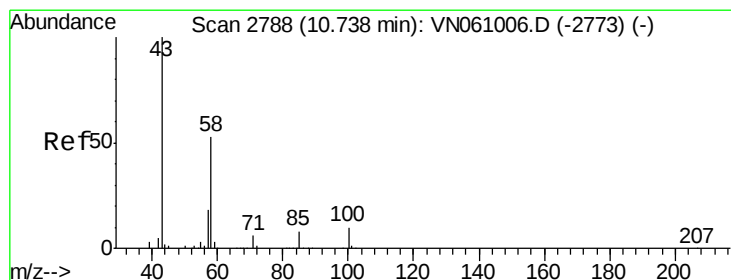
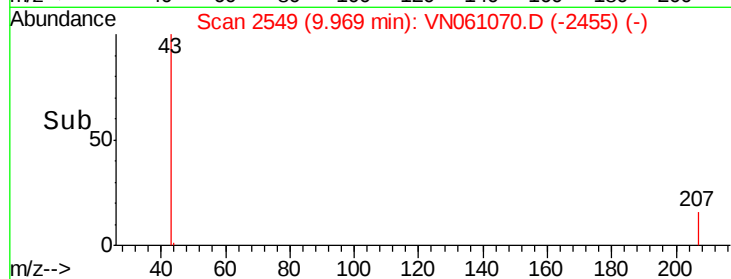
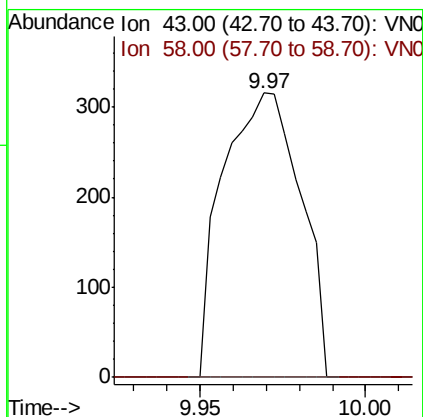
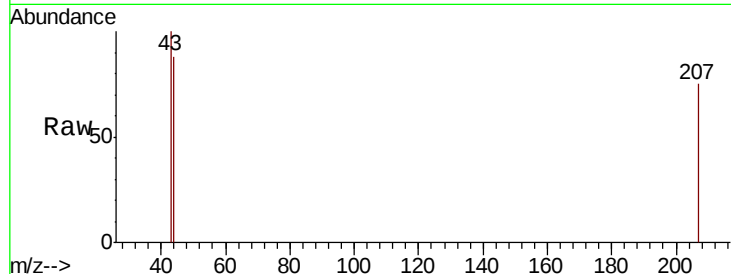




#51
 4-Methyl-2-Pentanone
 Concen: 0.204 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

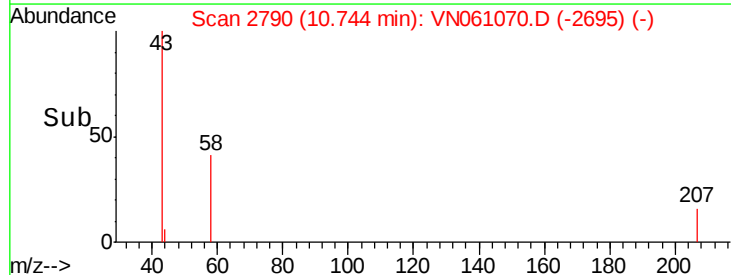
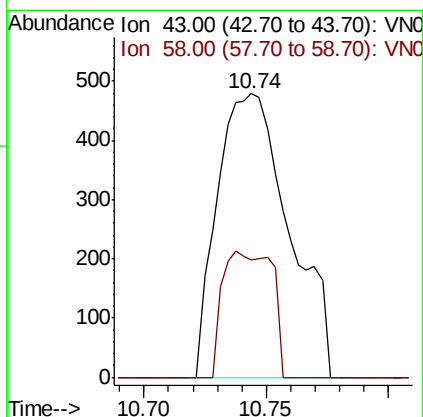
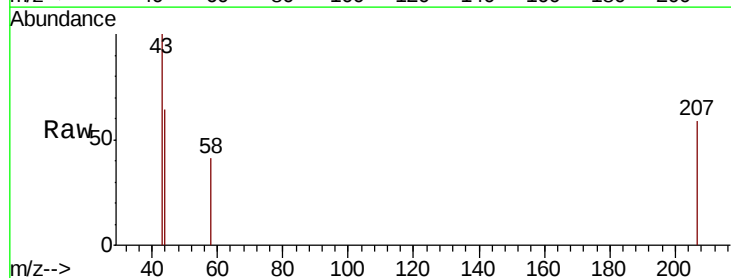
Instrument :
 MSVOA_N
 ClientSampled :

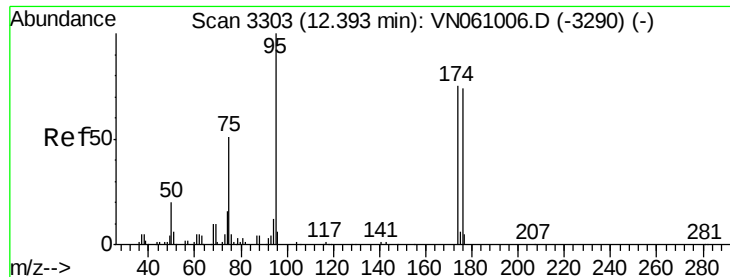
Tot Ion: 43 Resp: 516
 Ion Ratio Lower Upper
 43 100
 58 0.0 30.3 45.5#



#59
 2-Hexanone
 Concen: 0.537 ug/l
 RT: 10.74 min Scan# 2790
 Delta R.T. 0.01 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Tgt Ion: 43 Resp: 977
 Ion Ratio Lower Upper
 43 100
 58 30.6 26.4 79.0





#62

4-Bromofluorobenzene

Concen: 51.209 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampleId :

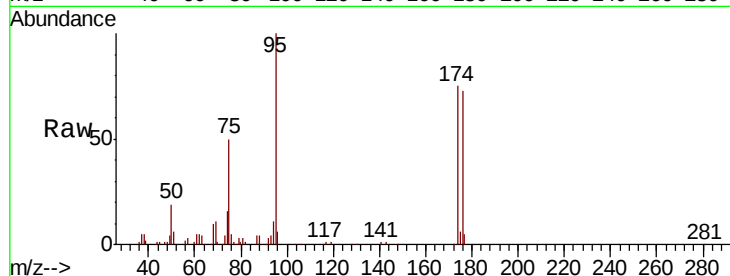
Tot Ion: 95 Resp: 106404

Ion Ratio Lower Upper

95 100

174 75.5 0.0 151.2

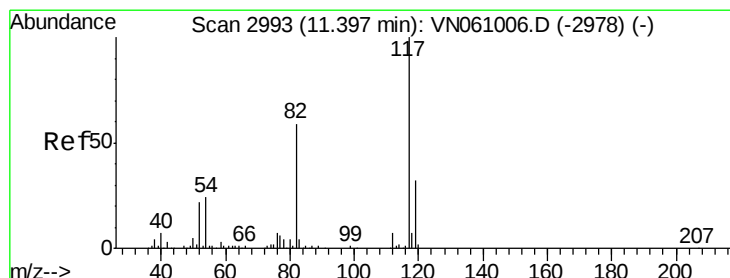
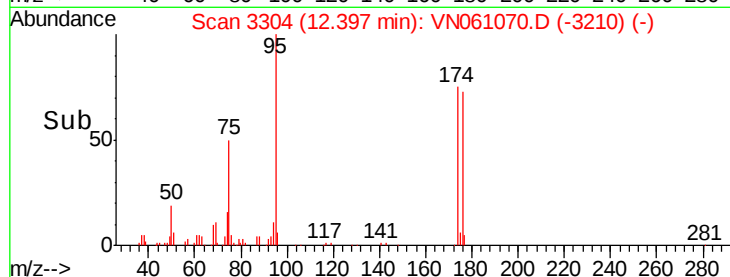
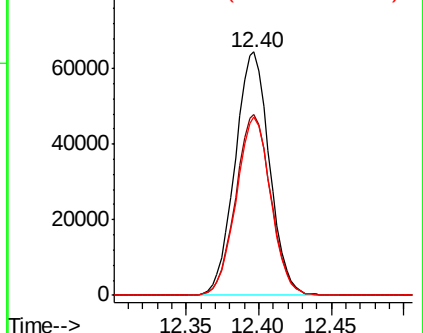
176 73.5 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

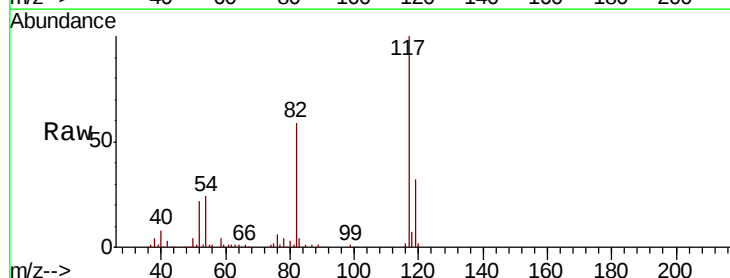
Tgt Ion: 117 Resp: 218021

Ion Ratio Lower Upper

117 100

82 59.1 47.1 70.7

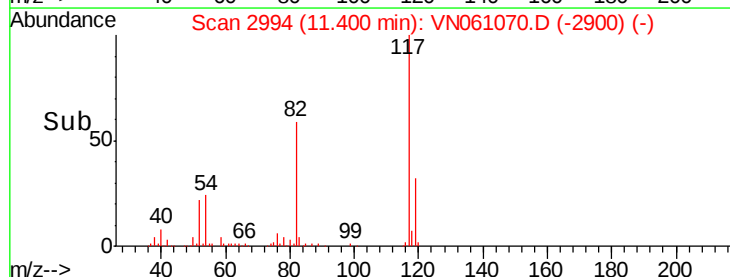
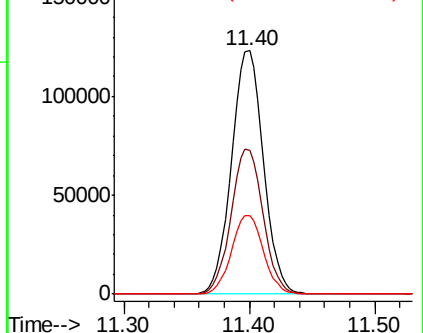
119 32.4 25.7 38.5

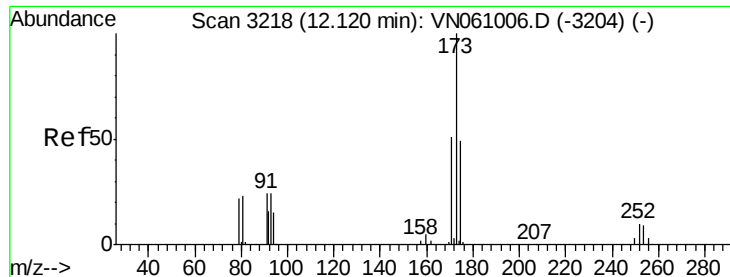


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)





#71

Bromoform

Concen: 0.210 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampled :

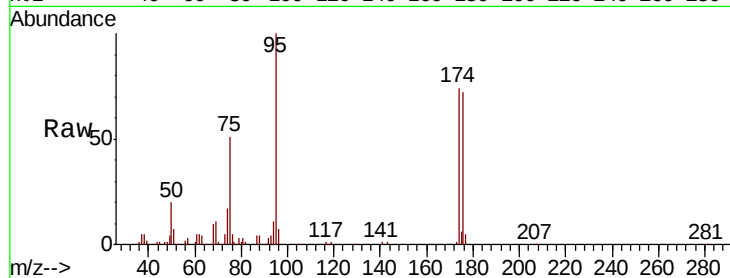
Tot Ion:173 Resp: 253

Ion Ratio Lower Upper

173 100

175 2005.1 24.5 73.5#

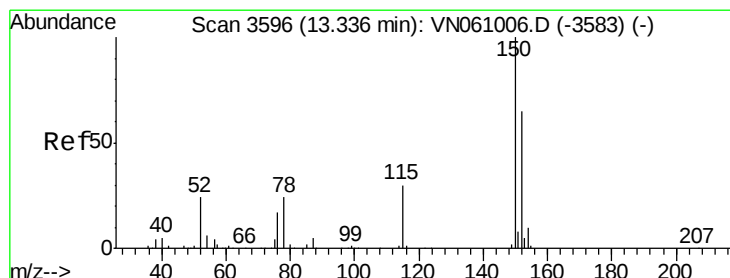
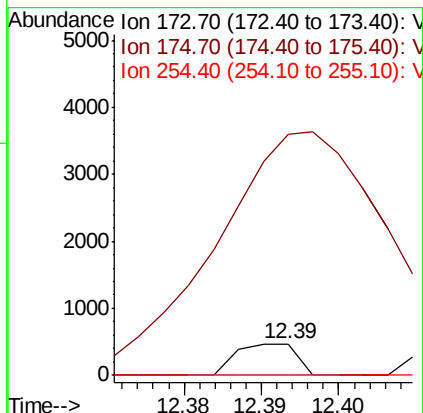
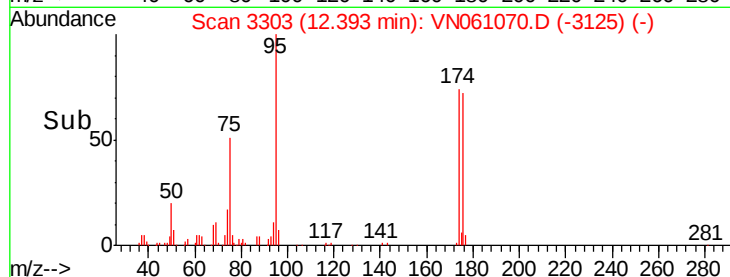
254 0.0 0.0 0.0



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: VN061070.D

Acq: 17 Apr 2020 23:19

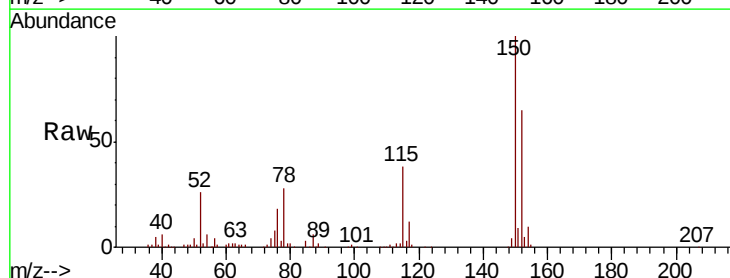
Tgt Ion:152 Resp: 94048

Ion Ratio Lower Upper

152 100

115 59.2 30.8 92.4

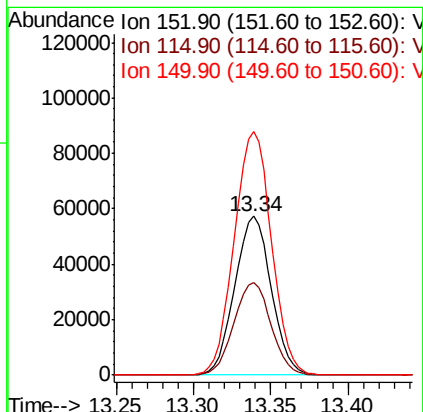
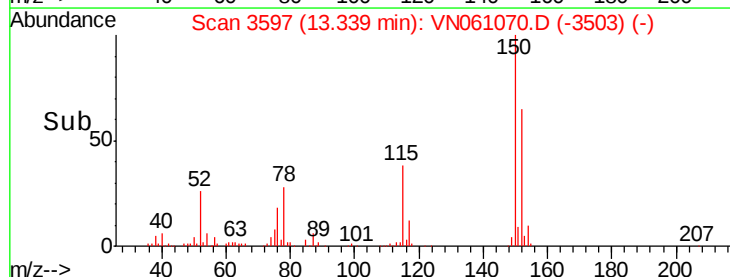
150 156.6 0.0 349.0

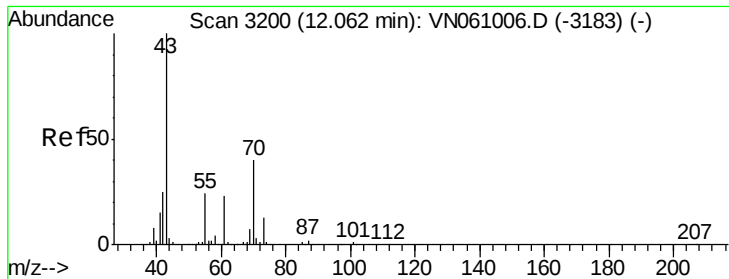


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.234 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 819

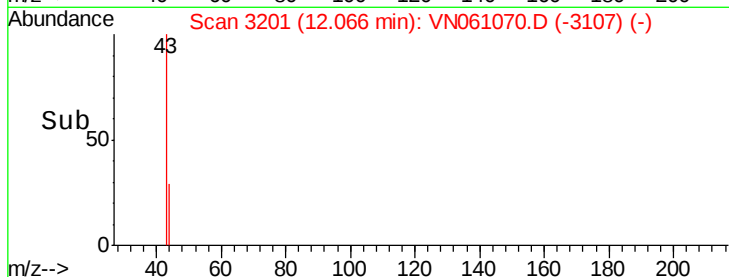
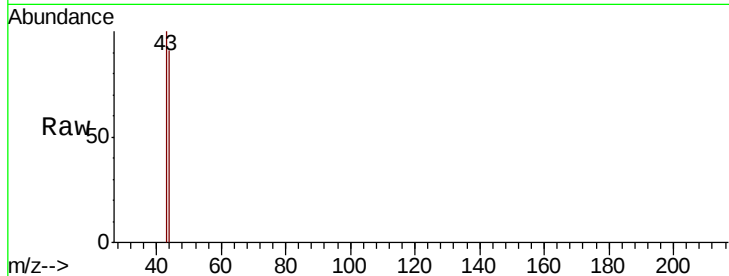
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 0.0 18.6 27.8#

61 0.0 18.2 27.4#

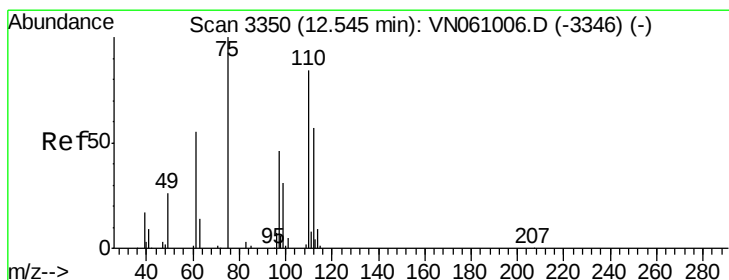
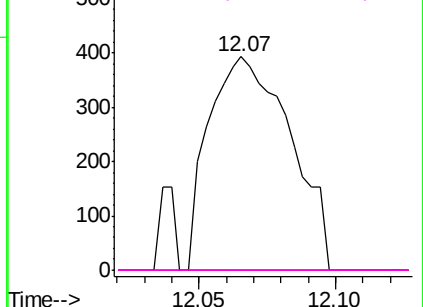


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 26.404 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN061070.D

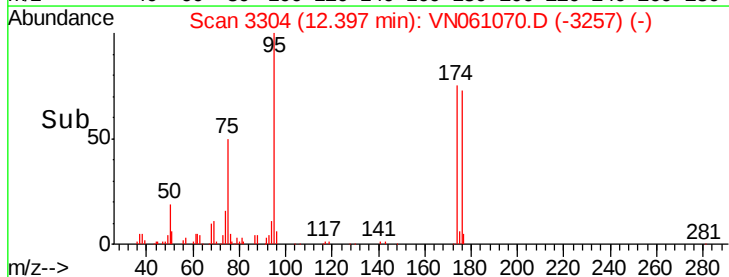
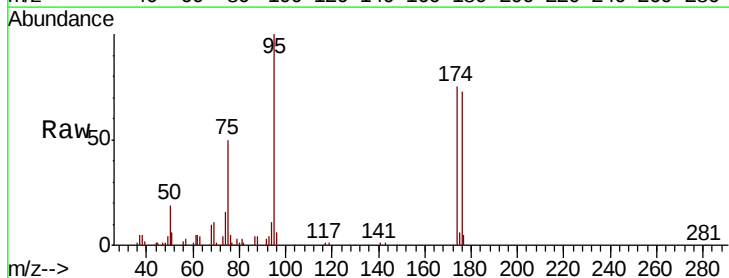
Acq: 17 Apr 2020 23:19

Tgt Ion: 75 Resp: 54621

Ion Ratio Lower Upper

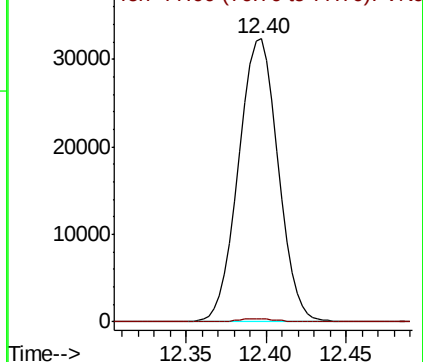
75 100

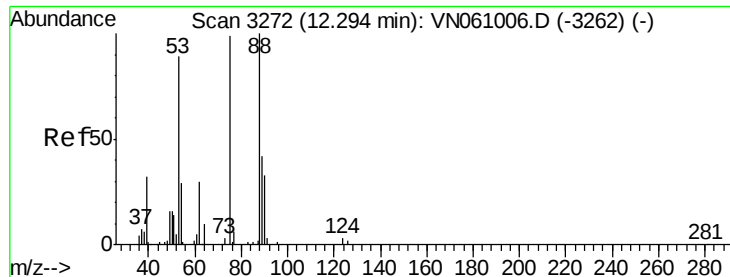
77 1.0 0.0 0.0#



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: 65.127 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampled :

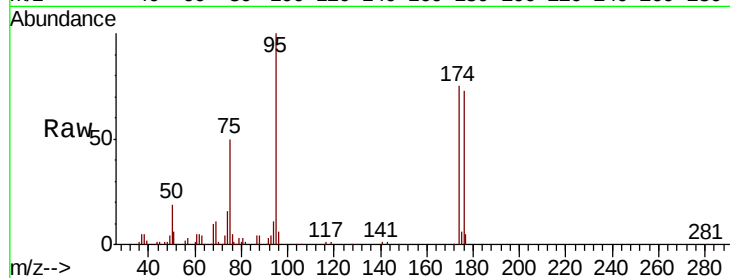
Tot Ion: 75 Resp: 54621

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

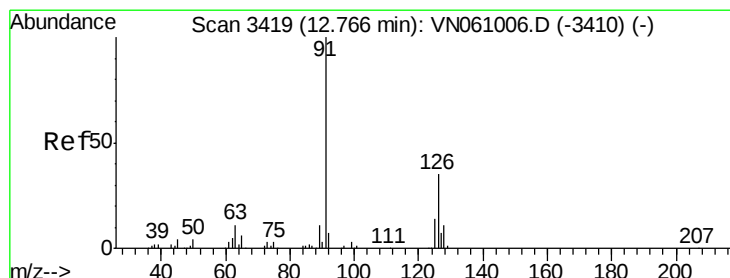
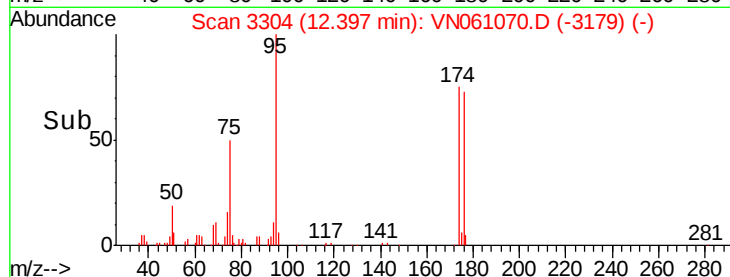
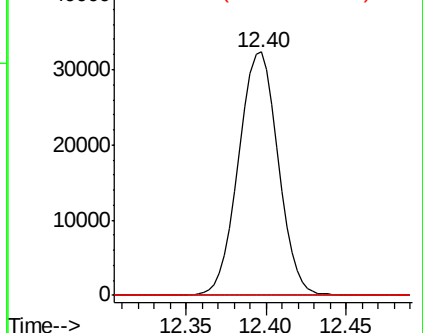
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061070.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN061070.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN061070.D (-3179) (-)



#82

4-Chlorotoluene

Concen: 0.212 ug/l

RT: 12.77 min Scan# 3419

Delta R.T. 0.00 min

Lab File: VN061070.D

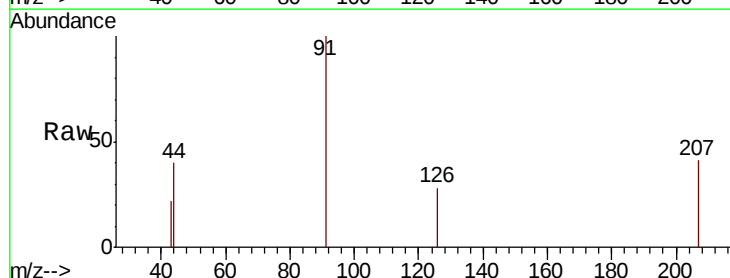
Acq: 17 Apr 2020 23:19

Tgt Ion: 91 Resp: 1137

Ion Ratio Lower Upper

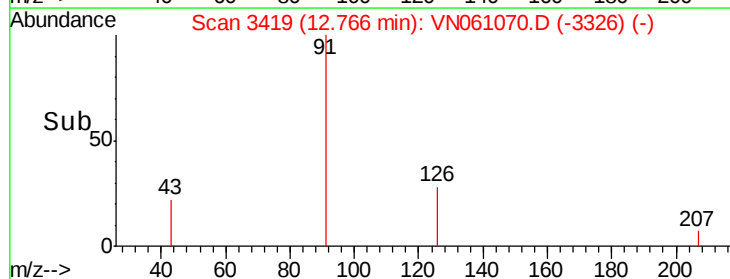
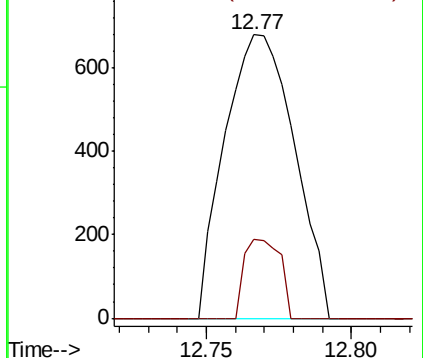
91 100

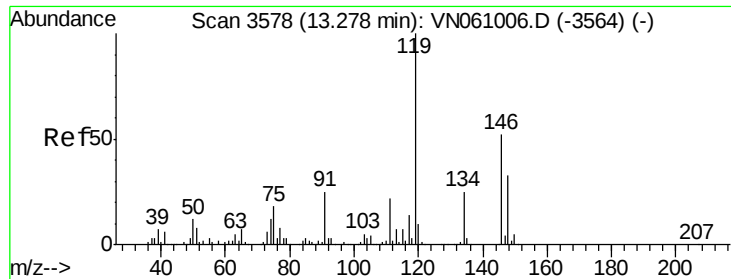
126 14.4 15.9 47.6#



Abundance Ion 91.00 (90.70 to 91.70): VN061070.D (-3326) (-)

Ion 125.90 (125.60 to 126.60): VN061070.D (-3326) (-)

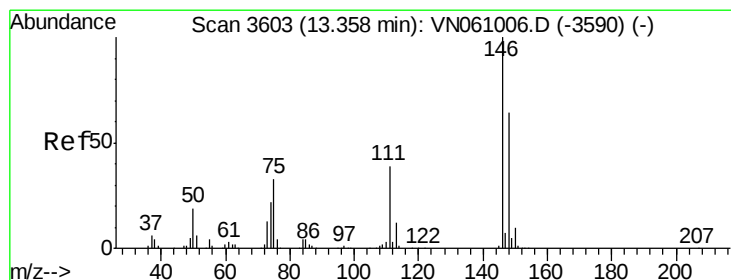
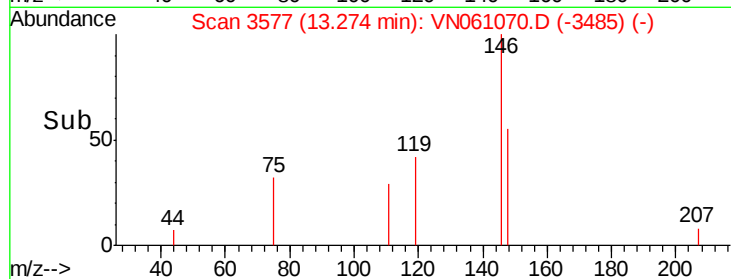
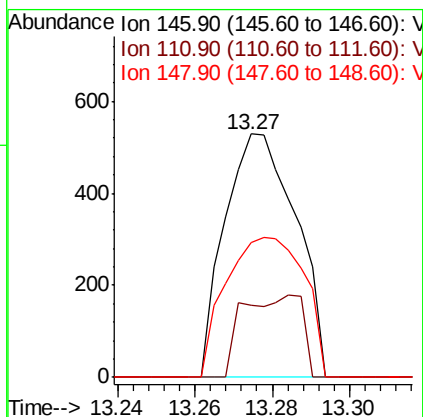
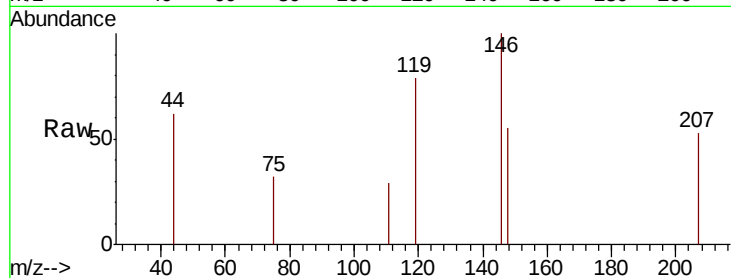




#87
 1,3-Dichlorobenzene
 Concen: 0.216 ug/l
 RT: 13.27 min Scan# 3577
 Delta R.T. -0.00 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

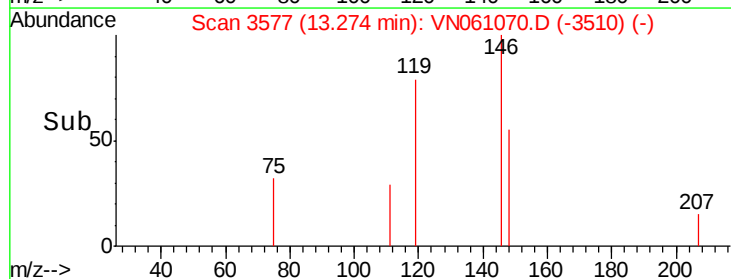
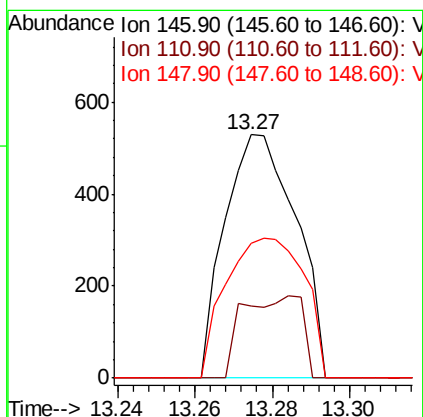
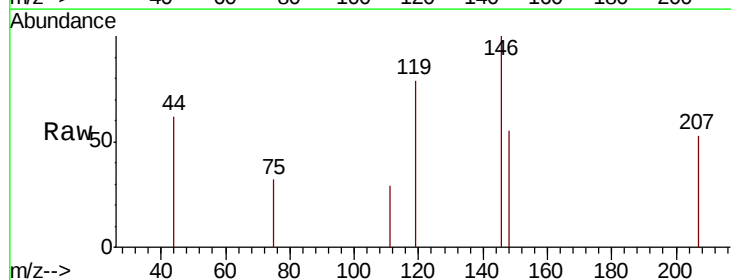
Instrument :
 MSVOA_N
 ClientSampleId :

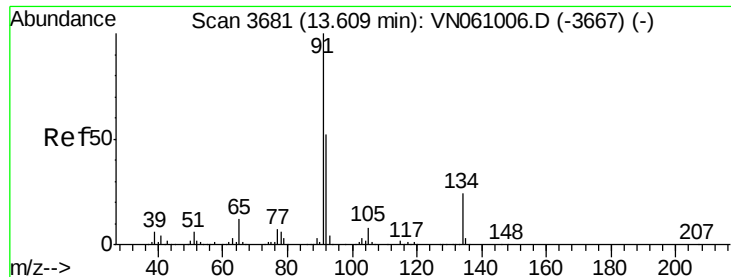
Tot Ion:146 Resp: 677
 Ion Ratio Lower Upper
 146 100
 111 28.1 20.6 61.8
 148 63.2 31.8 95.3



#88
 1,4-Dichlorobenzene
 Concen: 0.215 ug/l
 RT: 13.27 min Scan# 3577
 Delta R.T. -0.08 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Tgt Ion:146 Resp: 677
 Ion Ratio Lower Upper
 146 100
 111 28.1 20.1 60.3
 148 63.2 32.1 96.3





#89

n-Butylbenzene

Concen: 0.263 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampled :

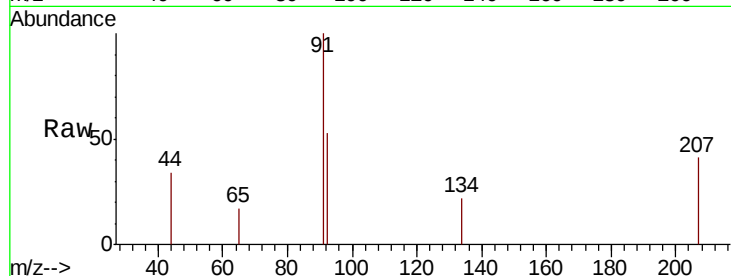
Tot Ion: 91 Resp: 1547

Ion Ratio Lower Upper

91 100

92 46.3 26.1 78.2

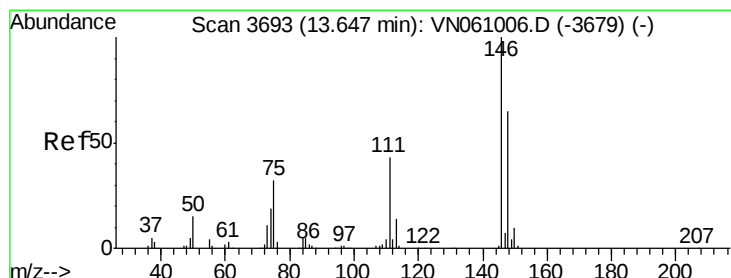
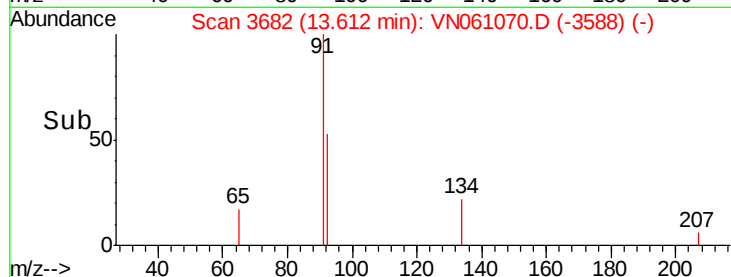
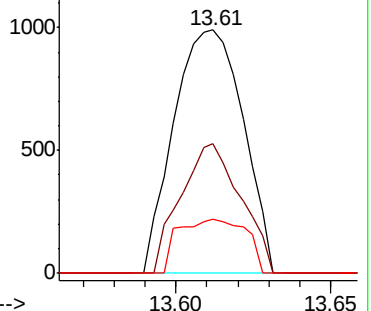
134 21.7 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VN061006.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN061006.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN061006.D (-3667) (-)



#91

1,2-Dichlorobenzene

Concen: 0.203 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

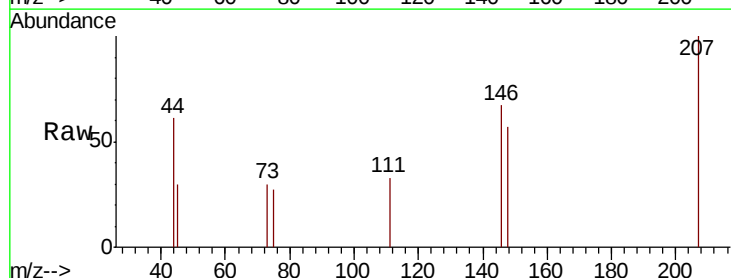
Tgt Ion: 146 Resp: 607

Ion Ratio Lower Upper

146 100

111 16.8 21.3 64.0#

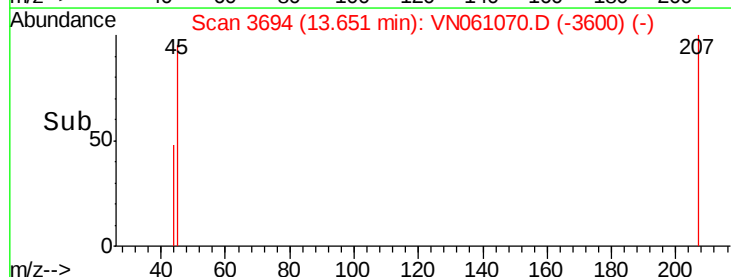
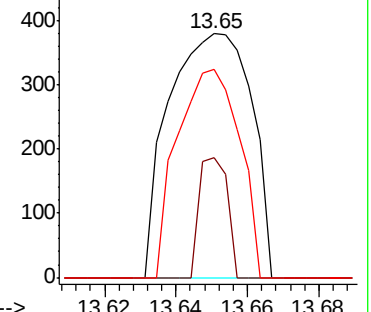
148 64.1 32.0 96.0

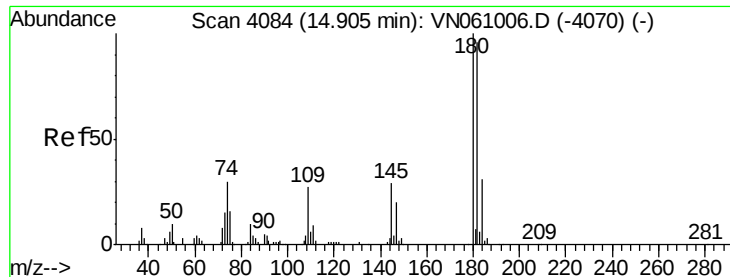


Abundance Ion 145.90 (145.60 to 146.60): VN061006.D (-3679) (-)

Ion 110.90 (110.60 to 111.60): VN061006.D (-3679) (-)

Ion 147.90 (147.60 to 148.60): VN061006.D (-3679) (-)

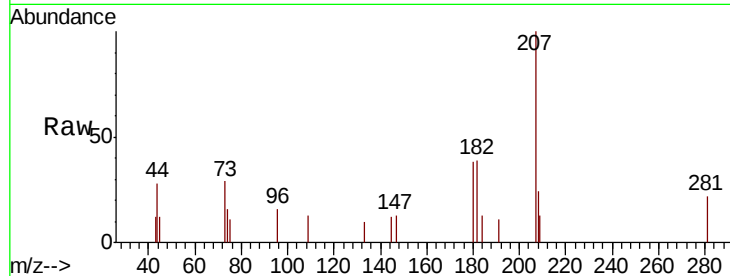




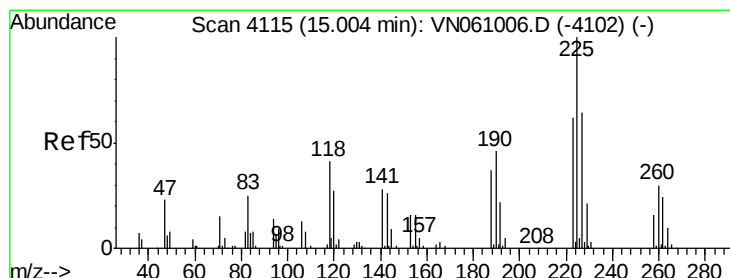
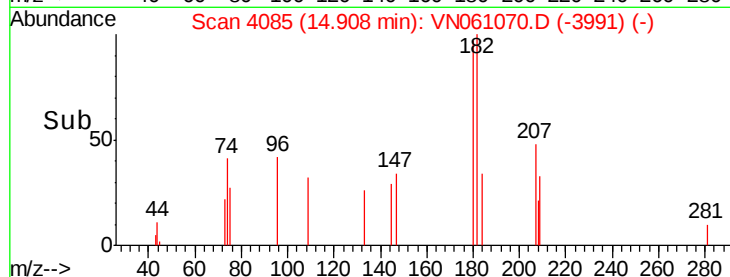
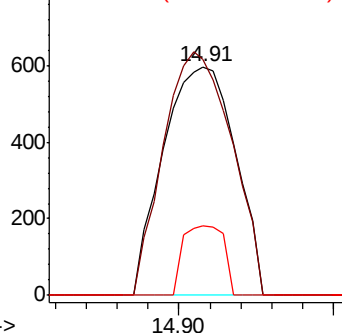
#93
 1,2,4-Trichlorobenzene
 Concen: 0.547 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.0	47.8	143.3
145	17.0	15.3	45.8

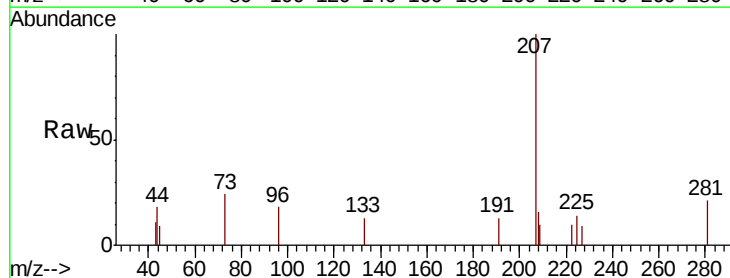


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

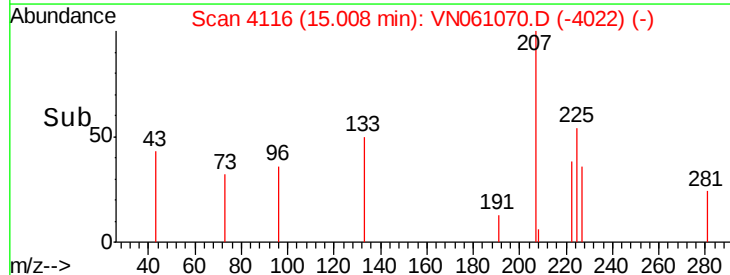
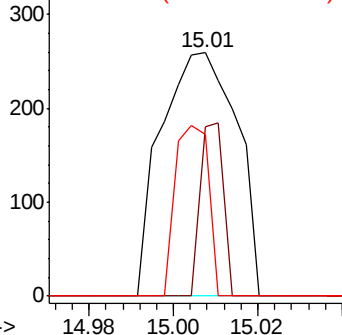


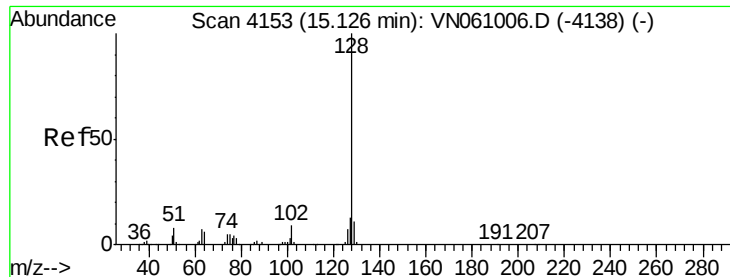
#94
 Hexachlorobutadiene
 Concen: 0.355 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN061070.D
 Acq: 17 Apr 2020 23:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	21.7	31.3	93.8#
227	31.0	31.9	95.5#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.810 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

Instrument :

MSVOA_N

ClientSampleId :

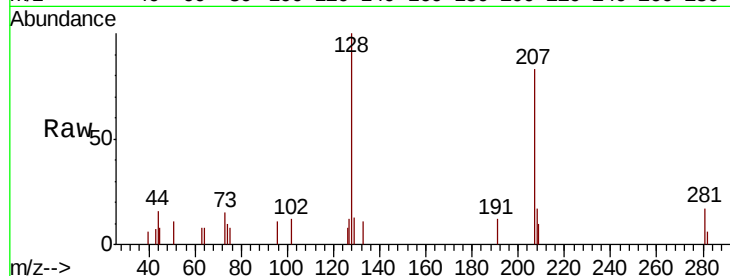
Tot Ion:128 Resp: 4182

Ion Ratio Lower Upper

128 100

127 10.2 10.2 15.4#

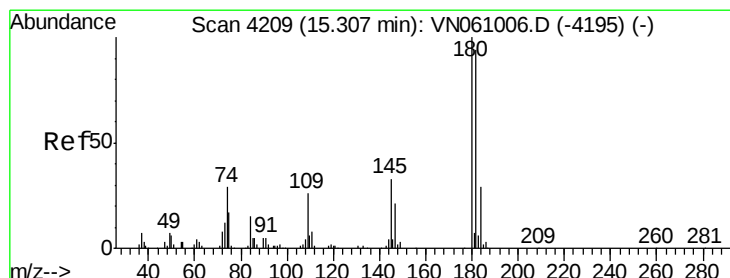
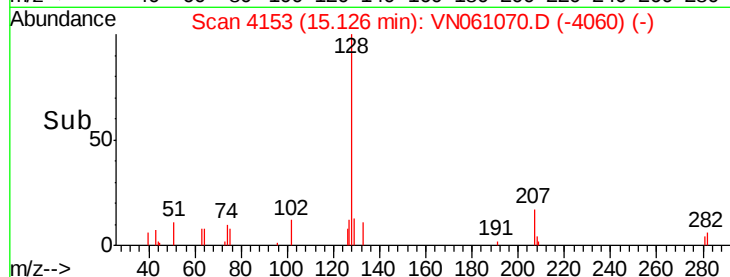
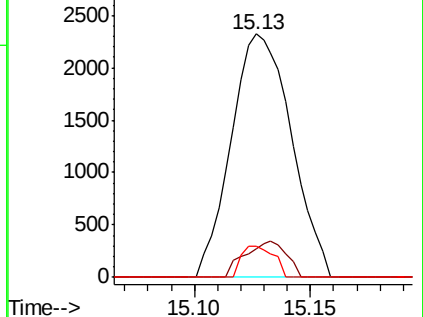
129 6.9 8.6 13.0#



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: 0.688 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.00 min

Lab File: VN061070.D

Acq: 17 Apr 2020 23:19

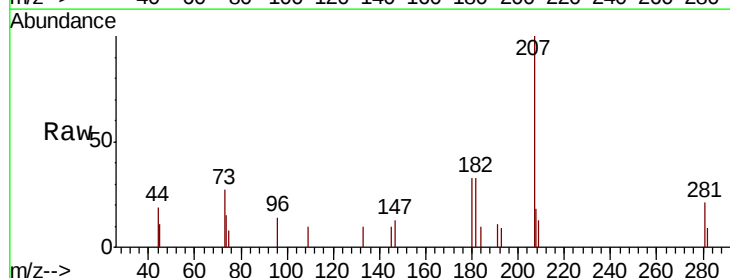
Tgt Ion:180 Resp: 1175

Ion Ratio Lower Upper

180 100

182 100.2 47.6 142.8

145 19.7 16.4 49.2



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

