

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042020\
 Data File : VN061095.D
 Acq On : 20 Apr 2020 12:50
 Operator : JC/MD
 Sample : L2334-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

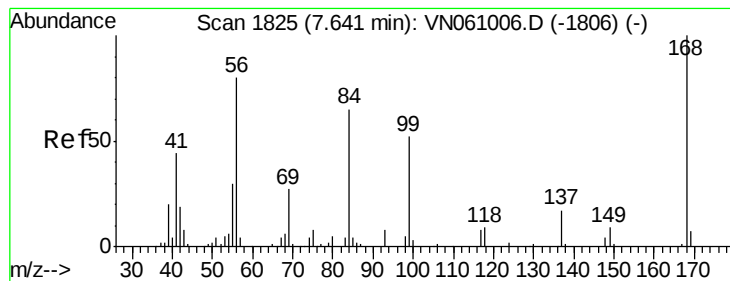
Quant Time: Apr 21 03:58:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	149553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	254931	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	236913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	100592	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	102663	53.65	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.56	113	77452	52.02	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	317475	56.43	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	113849	51.63	ug/l	0.00
Spiked Amount						

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1443	0.544	ug/l	93
4) Vinyl Chloride	2.17	62	937	0.425	ug/l #	86
16) Acetone	3.79	43	2188	2.598	ug/l	99
17) Carbon Disulfide	4.03	76	1528	0.298	ug/l #	74
31) Cyclohexane	7.64	56	3272	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11912	4.528	ug/l #	50
38) Carbon Tetrachloride	7.64	117	14477	6.611	ug/l #	16
40) Benzene	8.02	78	4929	0.632	ug/l	99
51) 4-Methyl-2-Pentanone	9.96	43	617	0.230	ug/l #	37
59) 2-Hexanone	10.74	43	1110	0.575	ug/l	72
71) Bromoform	12.39	173	403	0.309	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	58977	26.655	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	58977	65.746	ug/l #	12
87) 1,3-Dichlorobenzene	13.28	146	784	0.234	ug/l	87
88) 1,4-Dichlorobenzene	13.28	146	784	0.232	ug/l	87
89) n-Butylbenzene	13.61	91	1665	0.265	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	703	0.220	ug/l	83
93) 1,2,4-Trichlorobenzene	14.91	180	1261	0.666	ug/l	90
94) Hexachlorobutadiene	15.00	225	529	0.543	ug/l	79
95) Naphthalene	15.13	128	5288	0.957	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	1735	0.950	ug/l	85

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

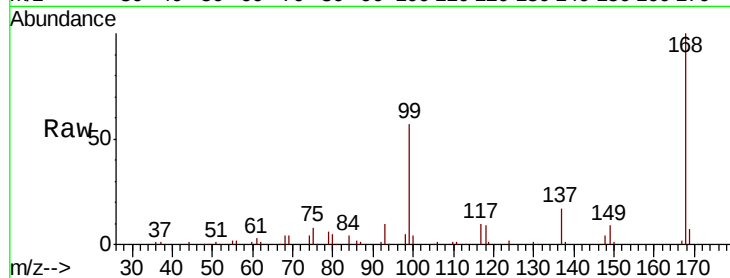
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 149553

Ion Ratio Lower Upper

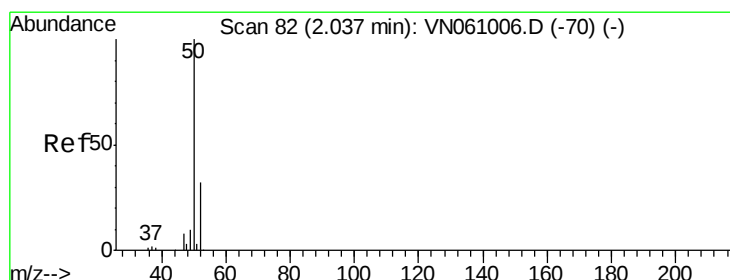
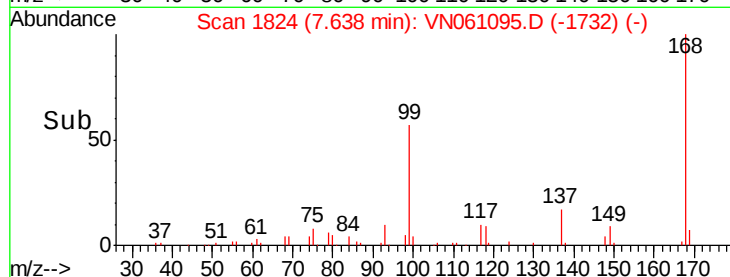
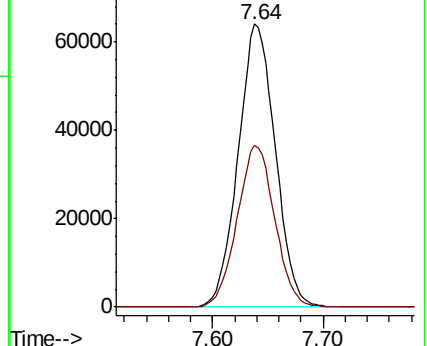
168 100

99 56.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.544 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061095.D

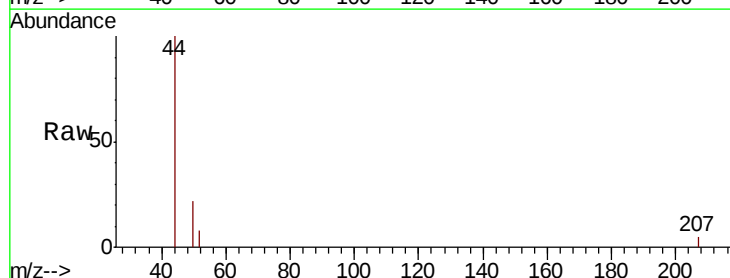
Acq: 20 Apr 2020 12:50

Tgt Ion: 50 Resp: 1443

Ion Ratio Lower Upper

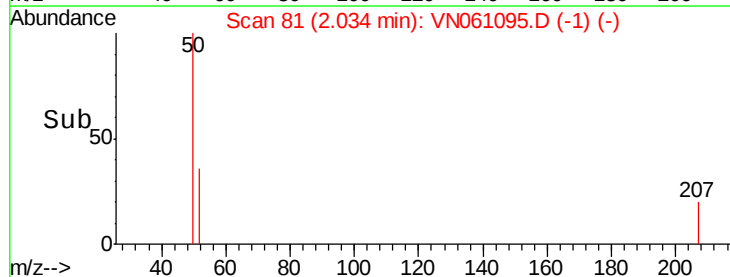
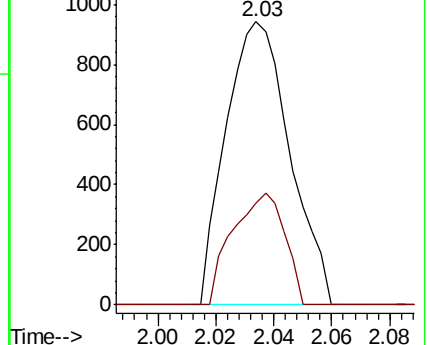
50 100

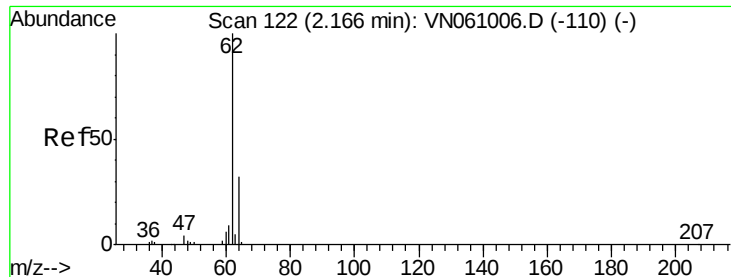
52 36.1 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 0.425 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

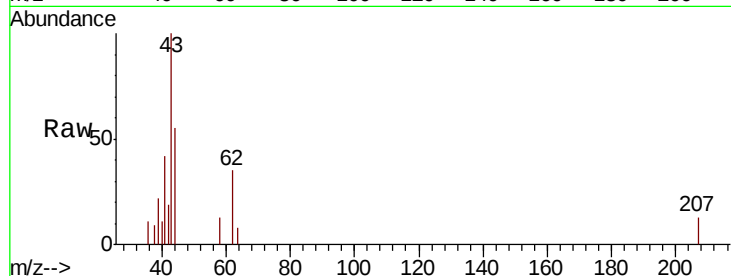
ClientSampled :

Tot Ion: 62 Resp: 937

Ion Ratio Lower Upper

62 100

64 23.7 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VN061006.D (-110) (-)

Ion 63.90 (63.60 to 64.60): VN061006.D (-110) (-)

2.17

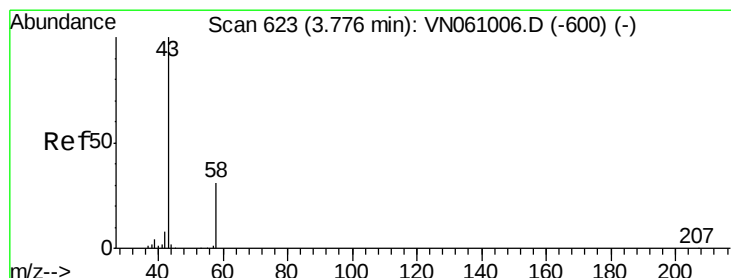
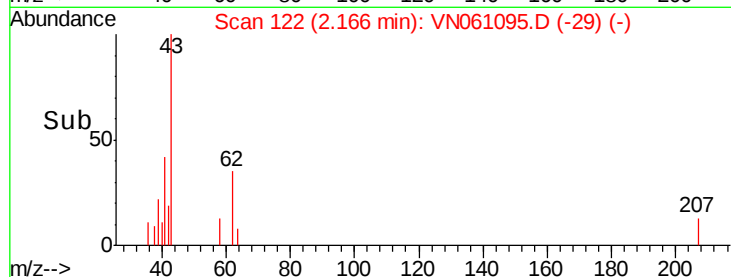
600

400

200

0

Time--> 2.12 2.14 2.16 2.18 2.20



#16

Acetone

Concen: 2.598 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061095.D

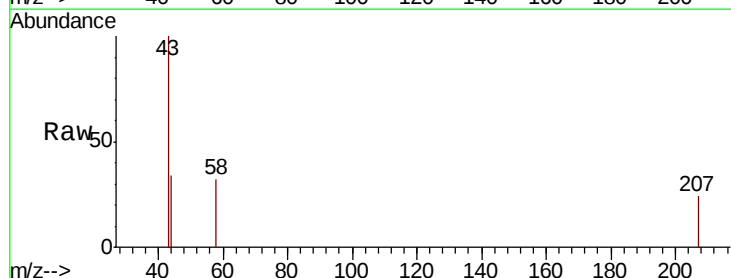
Acq: 20 Apr 2020 12:50

Tgt Ion: 43 Resp: 2188

Ion Ratio Lower Upper

43 100

58 31.5 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-600) (-)

3.79

800

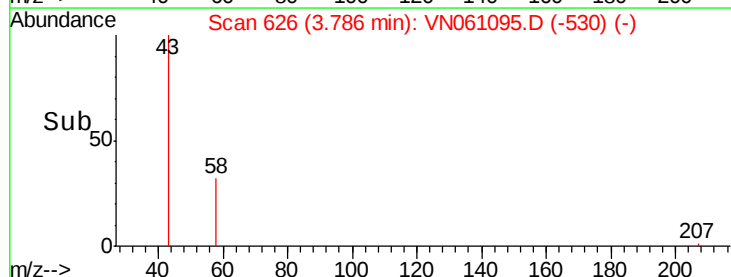
600

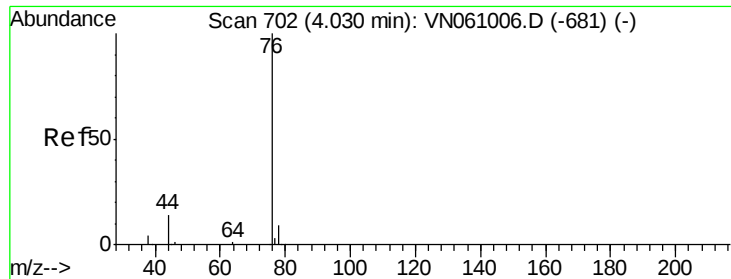
400

200

0

Time--> 3.75 3.80 3.85





#17

Carbon Disulfide

Concen: 0.298 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

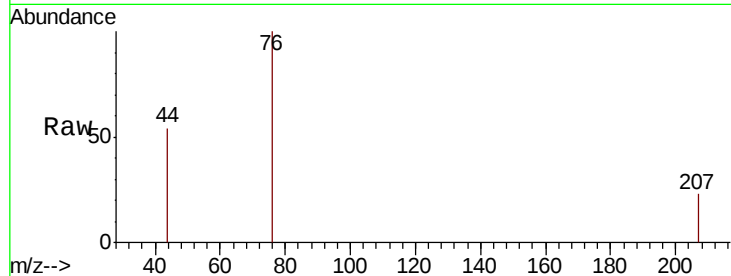
ClientSampleId :

Tot Ion: 76 Resp: 1528

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN061006.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN061006.D (-681) (-)

4.03

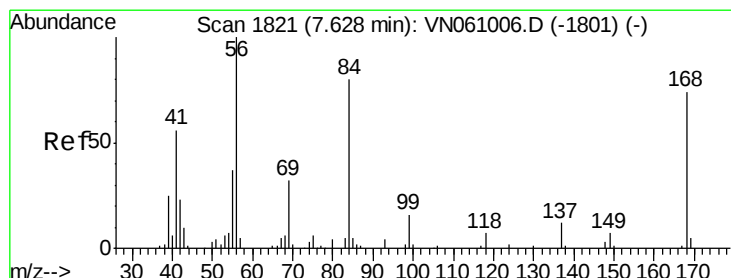
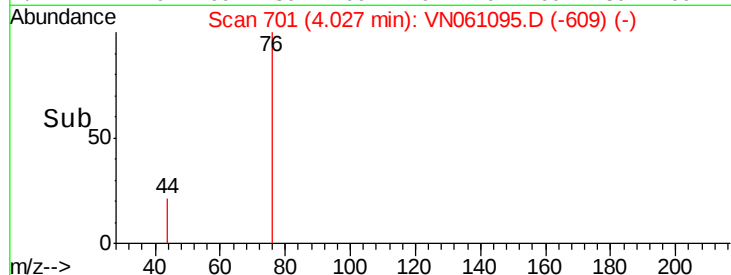
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 0.918 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

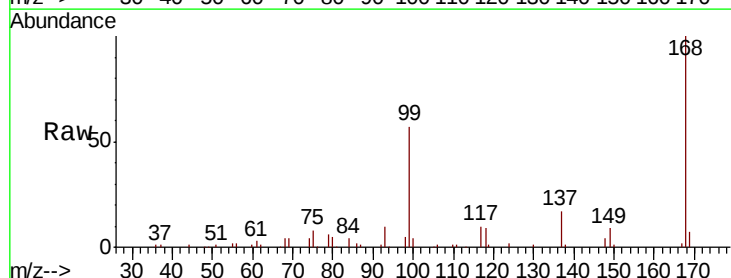
Tgt Ion: 56 Resp: 3272

Ion Ratio Lower Upper

56 100

69 169.7 25.6 38.4#

84 147.3 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN061006.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN061006.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN061006.D (-1801) (-)

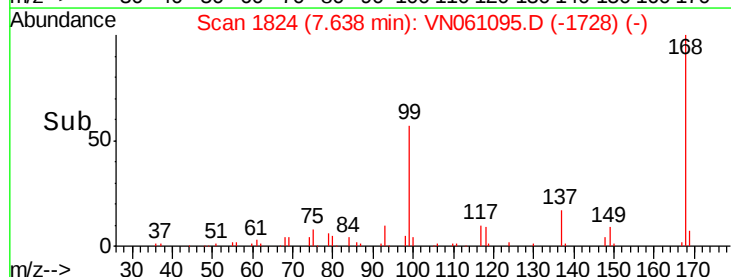
3000

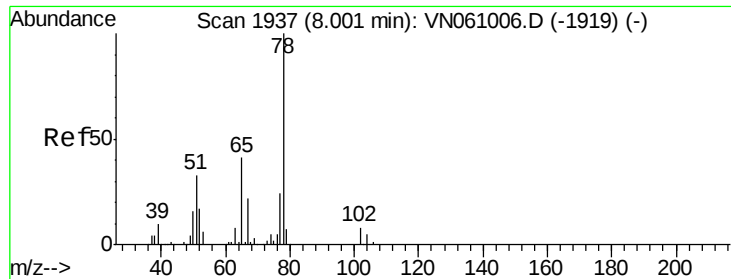
2000

1000

0

Time-->

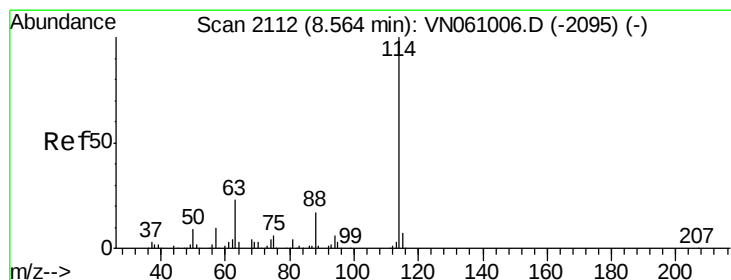
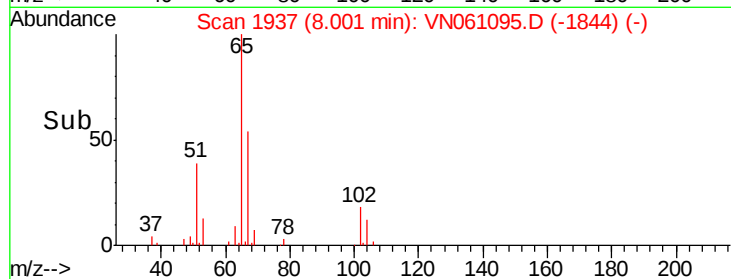
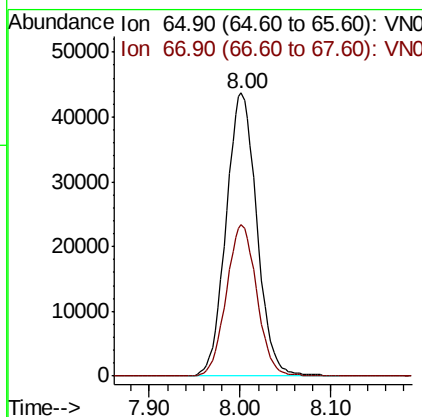
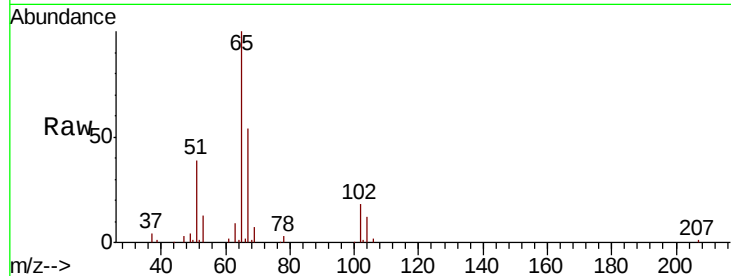




#33
 1,2-Dichloroethane-d4
 Concen: 53.654 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

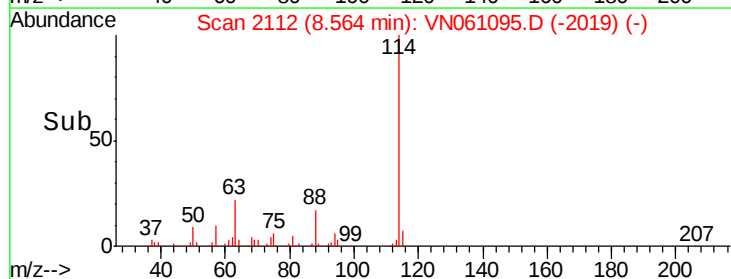
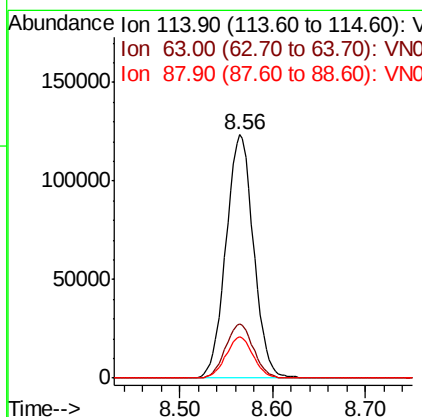
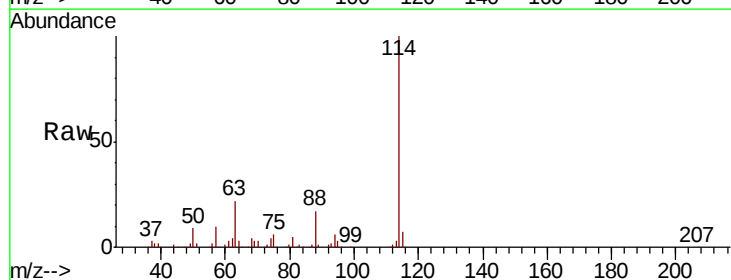
Instrument :
 MSVOA_N
 ClientSampleId :

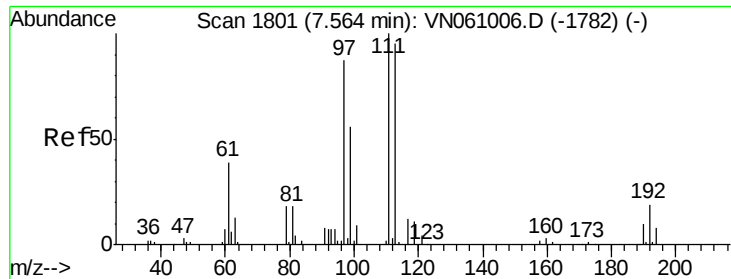
Tot Ion: 65 Resp: 102663
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Tgt Ion: 114 Resp: 254931
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 46.2
 88 16.8 0.0 33.4

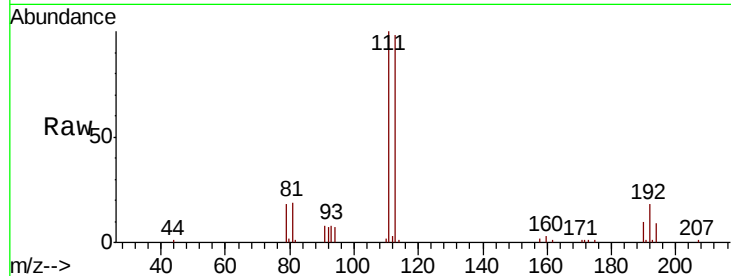




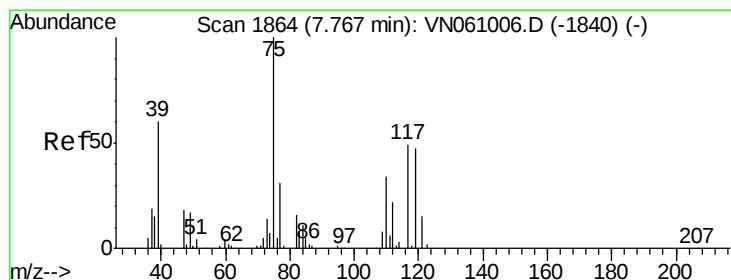
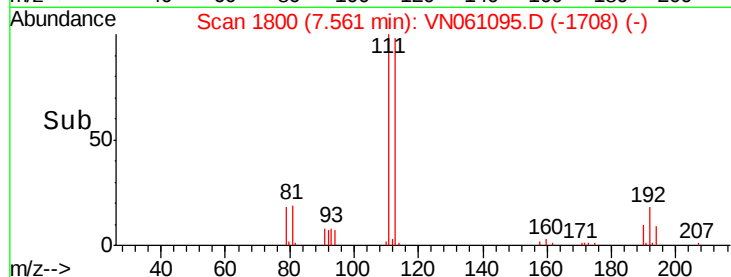
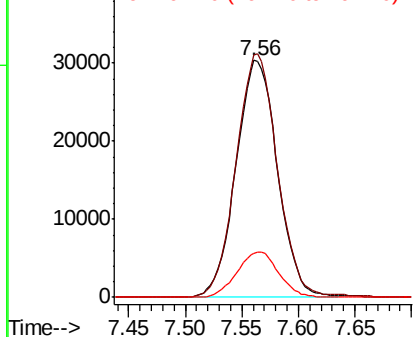
#35
 Dibromofluoromethane
 Concen: 52.024 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 77452
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.4 125.2
 192 19.1 15.5 23.3

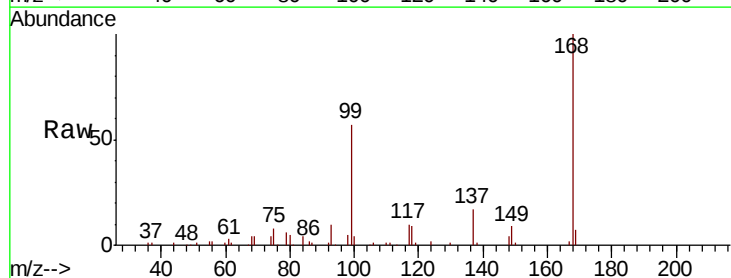


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

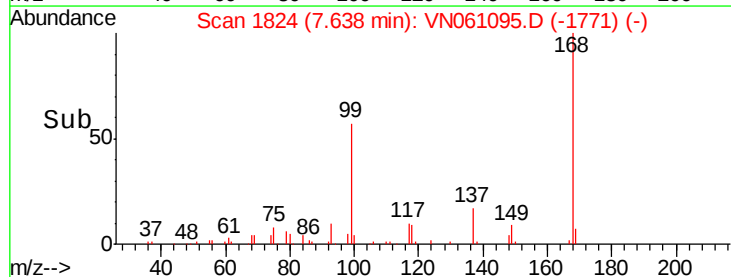
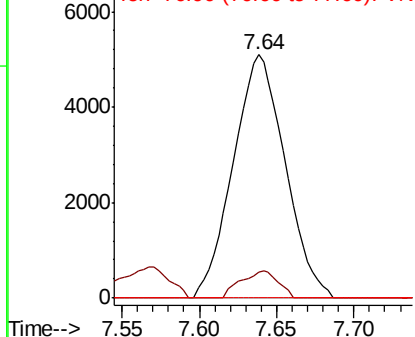


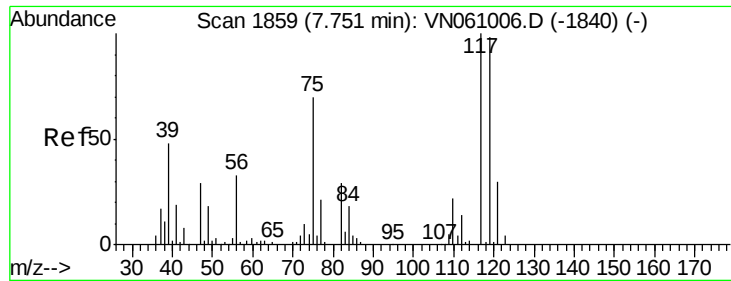
#36
 1,1-Dichloropropene
 Concen: 4.528 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Tgt Ion: 75 Resp: 11912
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.8 50.3#
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.611 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampled :

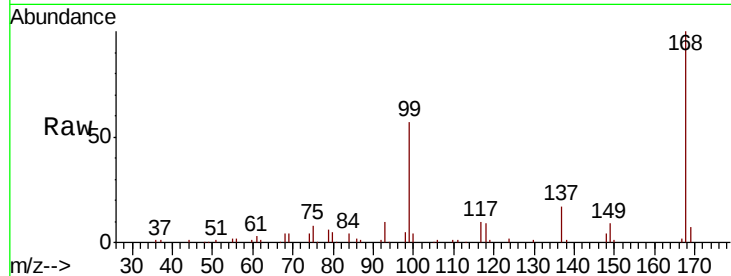
Tot Ion:117 Resp: 14477

Ion Ratio Lower Upper

117 100

119 5.7 78.1 117.1#

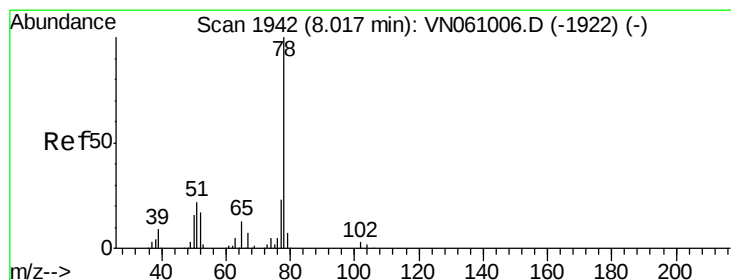
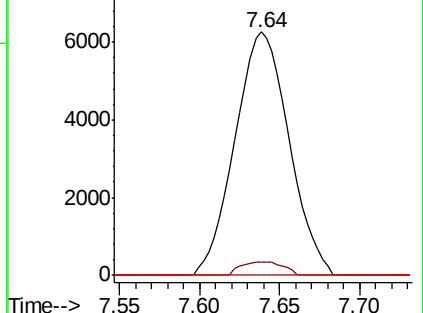
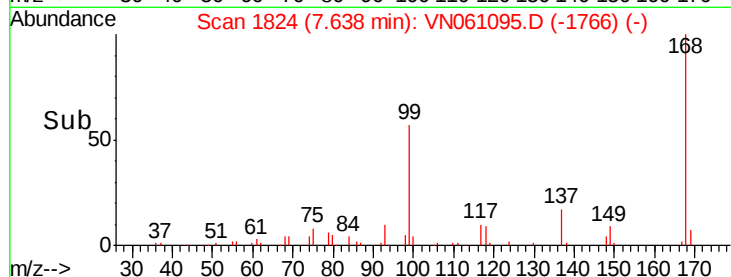
121 0.0 24.0 36.0#



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



#40

Benzene

Concen: 0.632 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN061095.D

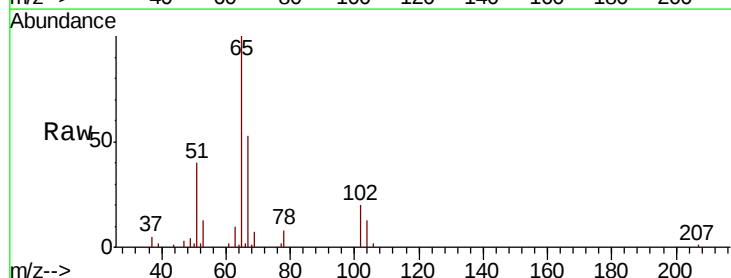
Acq: 20 Apr 2020 12:50

Tgt Ion: 78 Resp: 4929

Ion Ratio Lower Upper

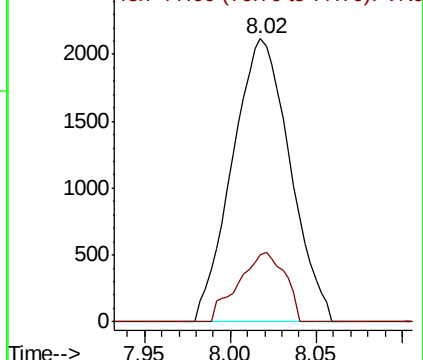
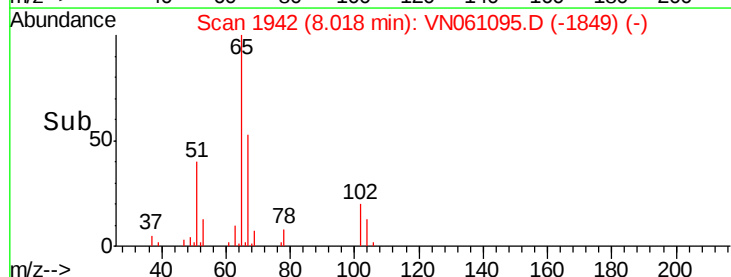
78 100

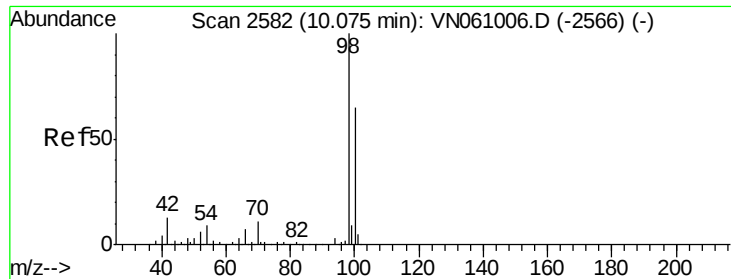
77 23.8 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#50

Toluene-d8

Concen: 56.433 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

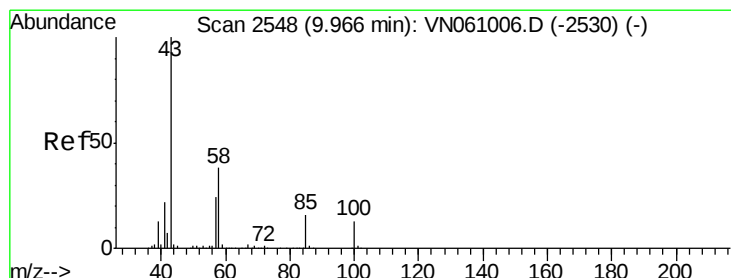
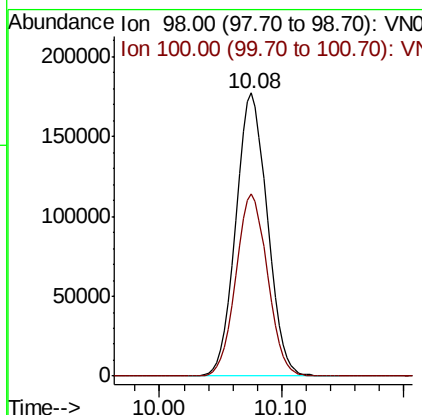
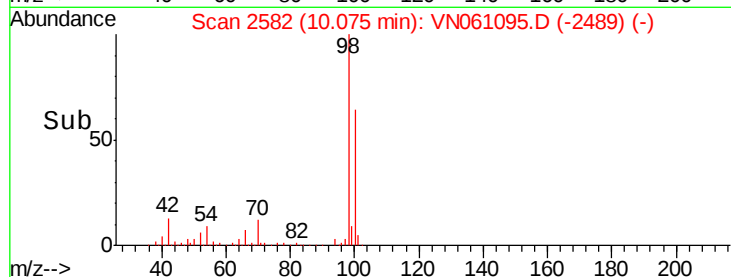
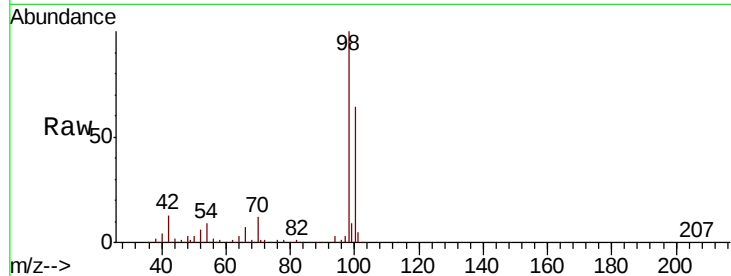
ClientSampled :

Tot Ion: 98 Resp: 317475

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.230 ug/l

RT: 9.96 min Scan# 2547

Delta R.T. -0.00 min

Lab File: VN061095.D

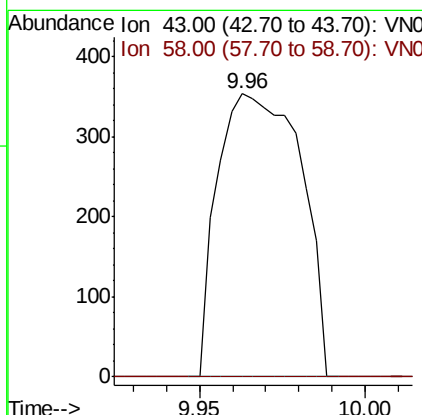
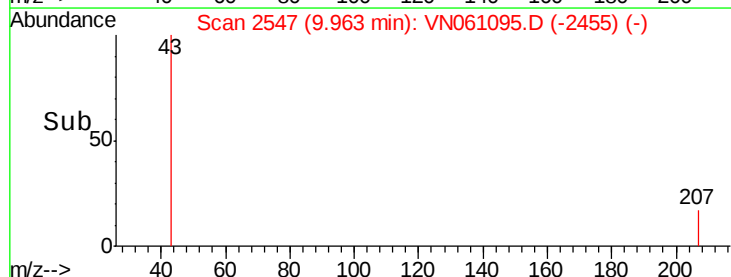
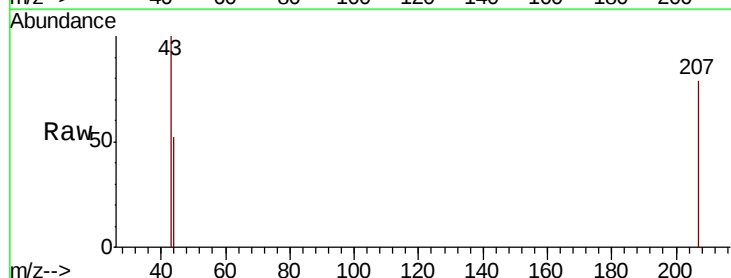
Acq: 20 Apr 2020 12:50

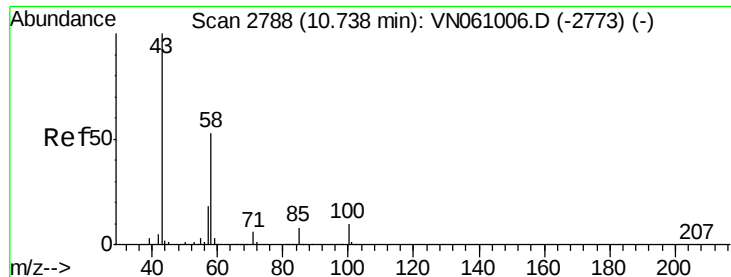
Tgt Ion: 43 Resp: 617

Ion Ratio Lower Upper

43 100

58 0.0 30.3 45.5#

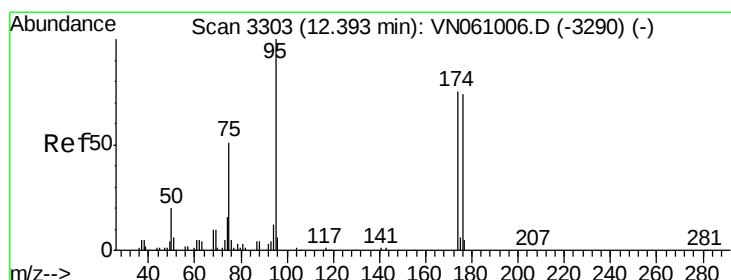
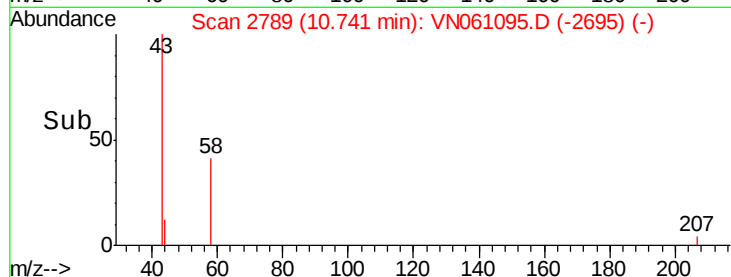
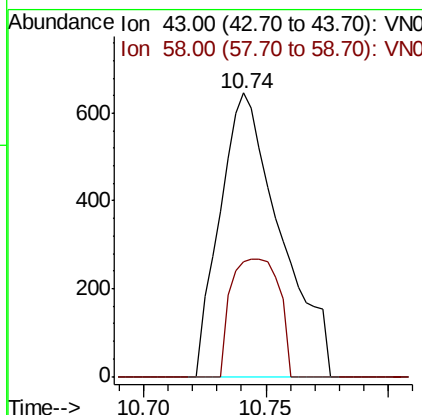
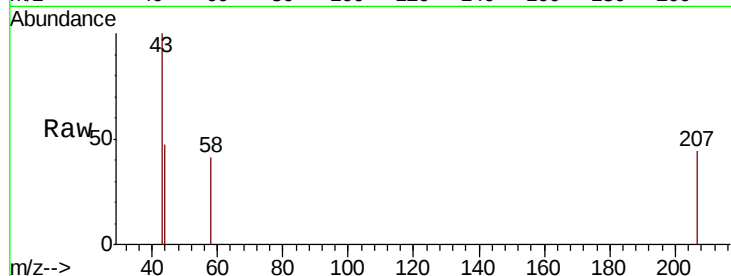




#59
2-Hexanone
Concen: 0.575 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

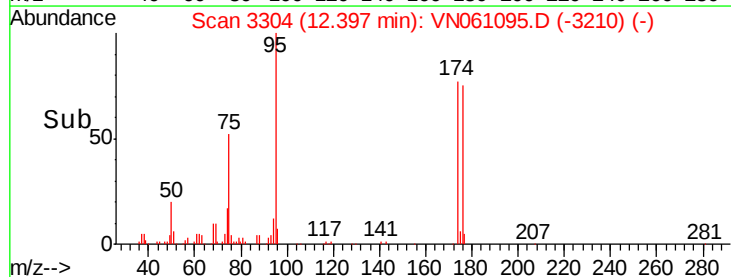
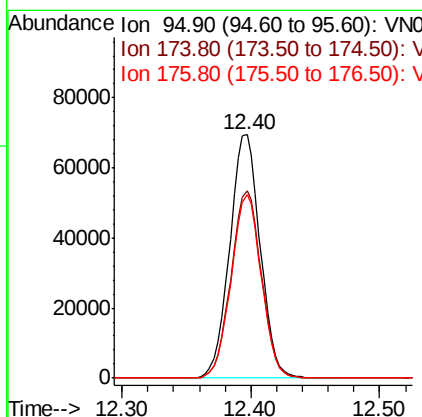
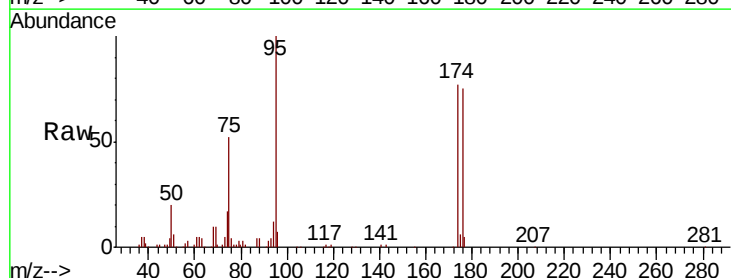
Instrument :
MSVOA_N
ClientSampleId :

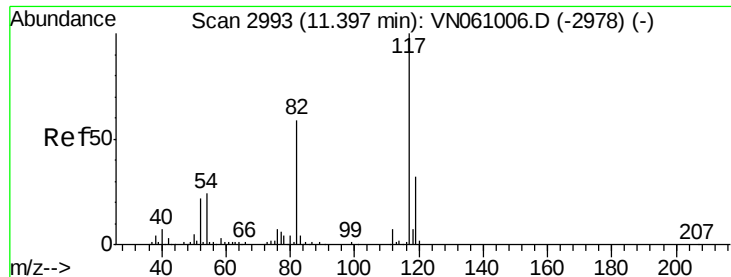
Tot Ion: 43 Resp: 1110
Ion Ratio Lower Upper
43 100
58 32.7 26.4 79.0



#62
4-Bromofluorobenzene
Concen: 51.635 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Tgt Ion: 95 Resp: 113849
Ion Ratio Lower Upper
95 100
174 76.8 0.0 151.2
176 74.6 0.0 148.2

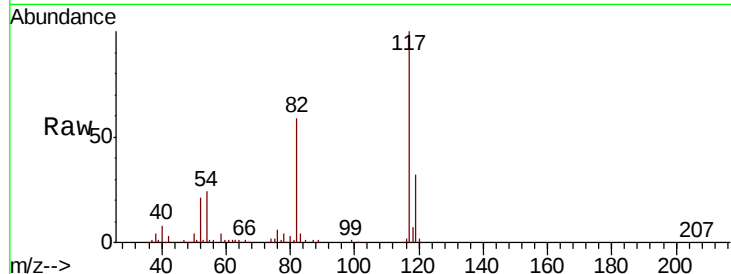




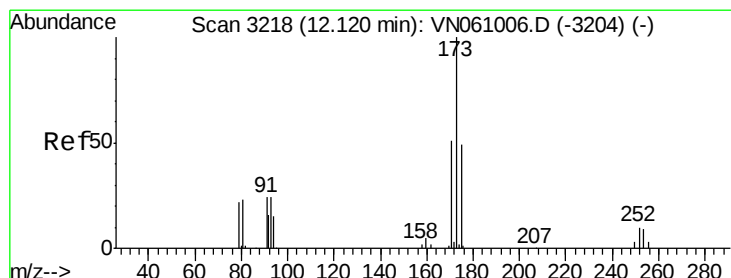
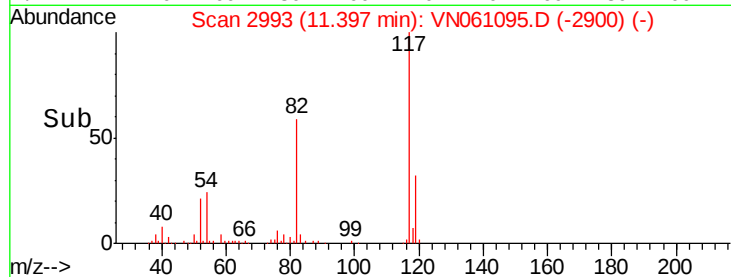
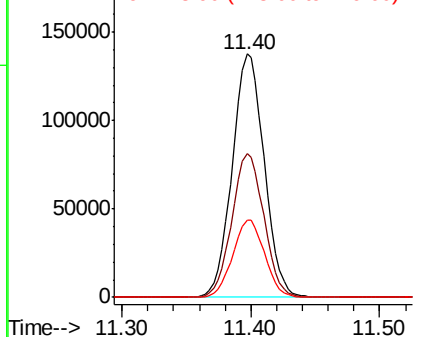
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 236913
Ion Ratio Lower Upper
117 100
82 59.2 47.1 70.7
119 31.7 25.7 38.5

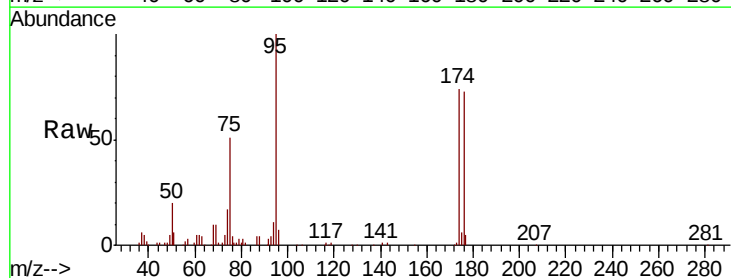


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

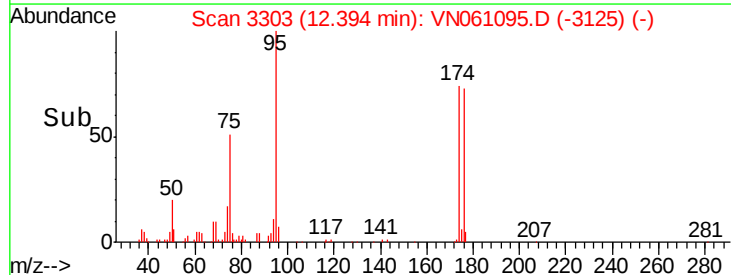
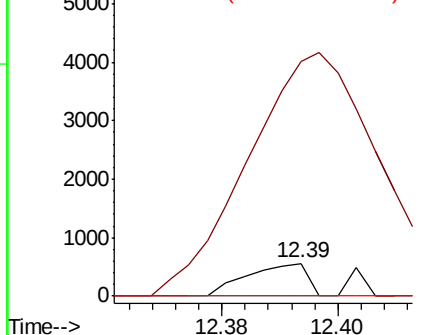


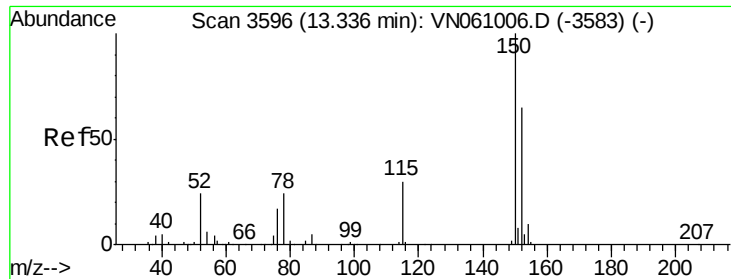
#71
Bromoform
Concen: 0.309 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Tgt Ion:173 Resp: 403
Ion Ratio Lower Upper
173 100
175 1418.9 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



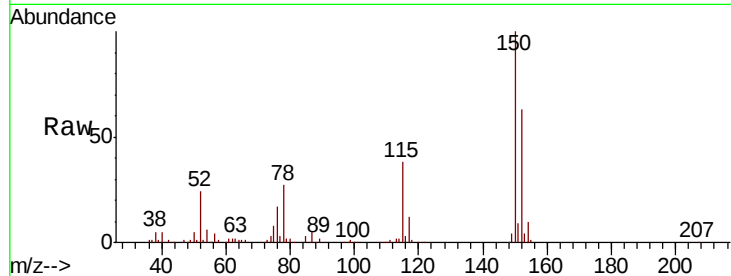


#72

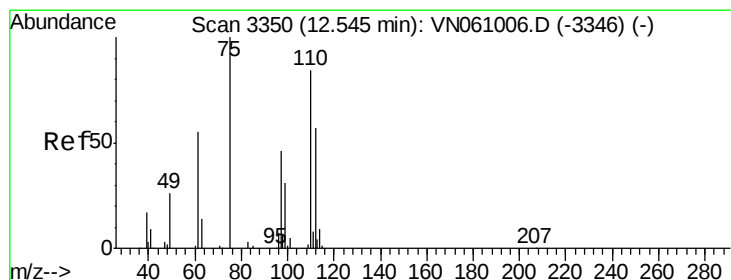
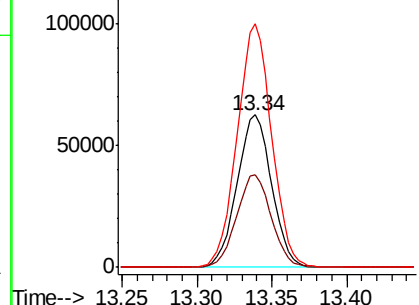
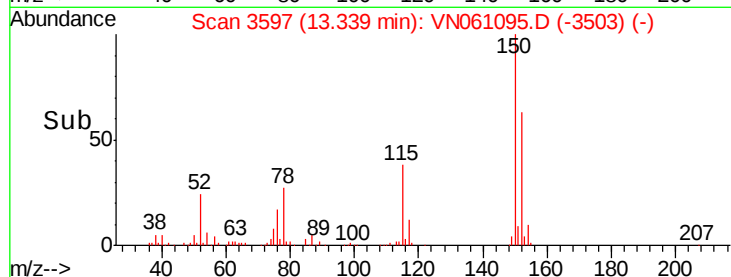
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 100592
Ion Ratio Lower Upper
152 100
115 60.6 30.8 92.4
150 159.1 0.0 349.0



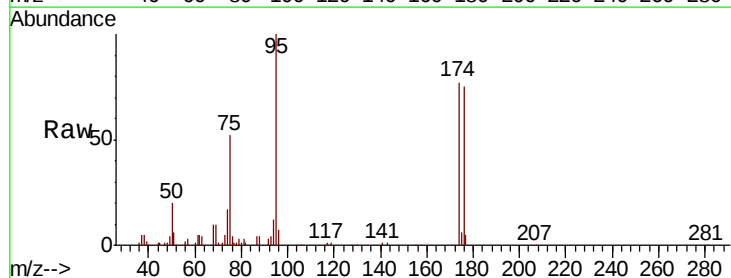
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



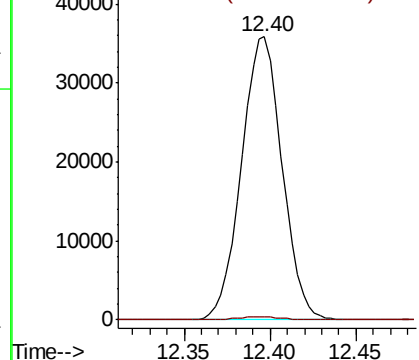
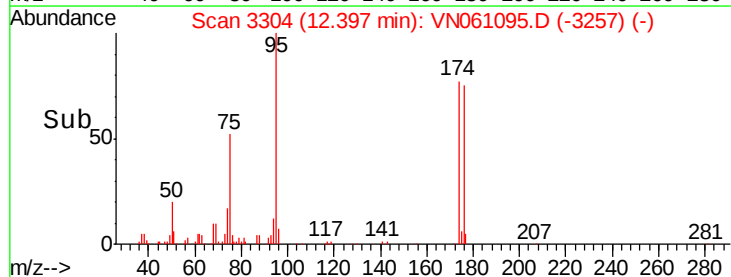
#76

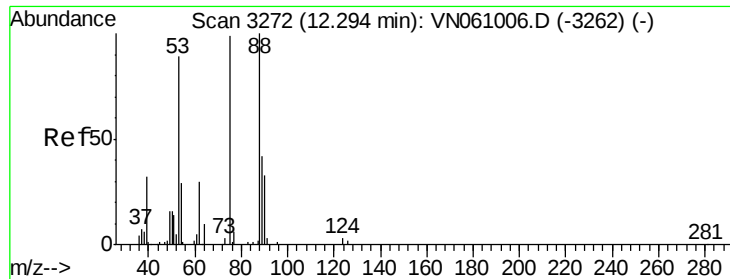
1,2,3-Trichloropropane
Concen: 26.655 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Tgt Ion: 75 Resp: 58977
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

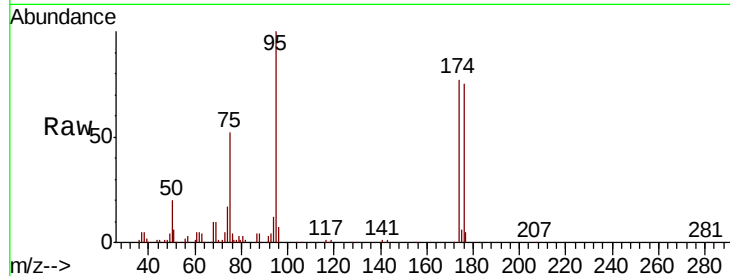




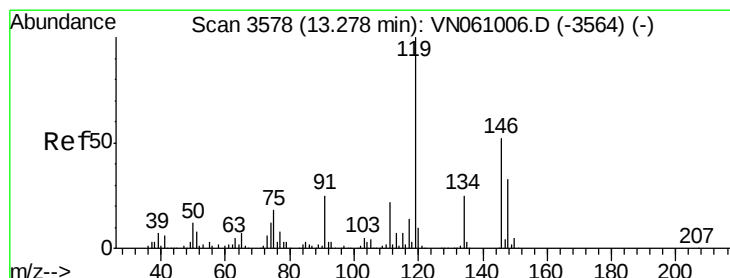
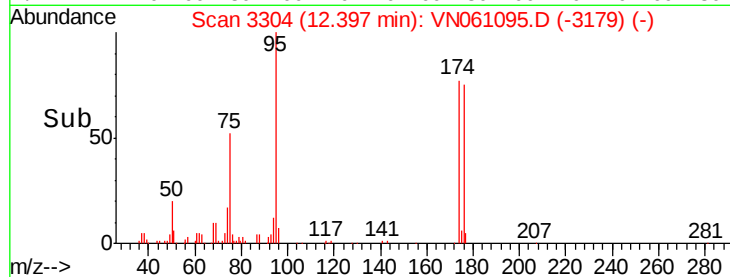
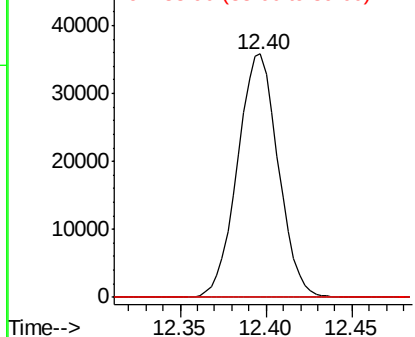
#81
trans-1,4-Dichloro-2-butene
Concen: 65.746 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 58977
Ion Ratio Lower Upper
75 100
53 0.0 74.7 112.1#
89 0.0 34.6 52.0#

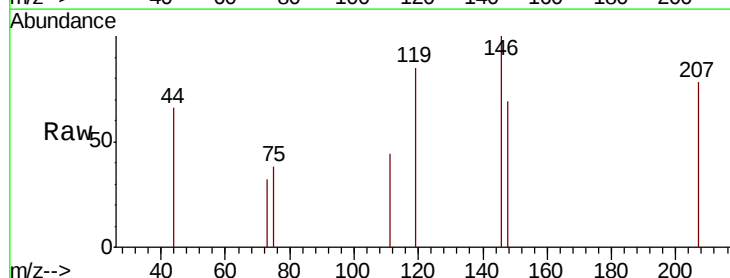


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

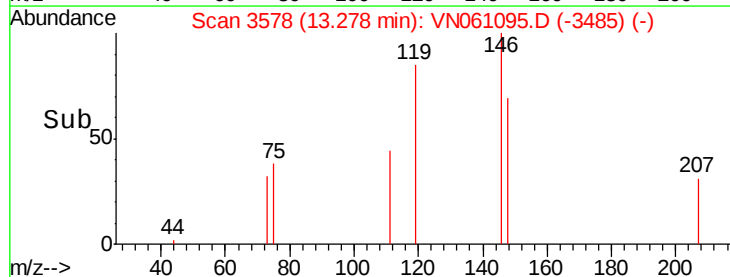
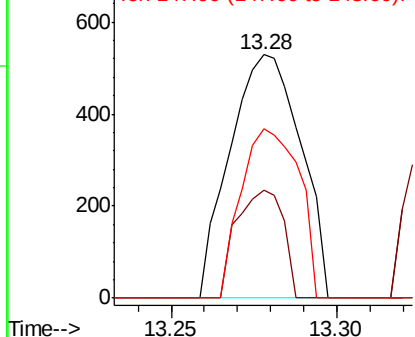


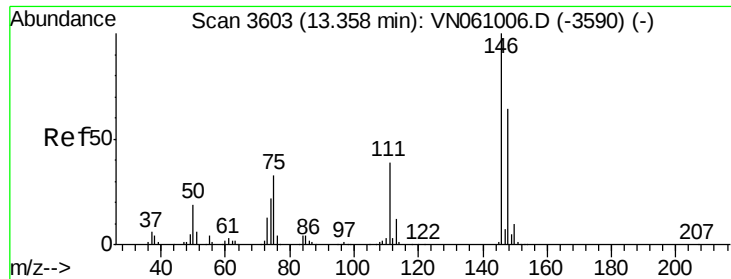
#87
1,3-Dichlorobenzene
Concen: 0.234 ug/l
RT: 13.28 min Scan# 3578
Delta R.T. 0.00 min
Lab File: VN061095.D
Acq: 20 Apr 2020 12:50

Tgt Ion: 146 Resp: 784
Ion Ratio Lower Upper
146 100
111 29.2 20.6 61.8
148 56.9 31.8 95.3



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





#88

1,4-Dichlorobenzene

Concen: 0.232 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. -0.08 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampleId :

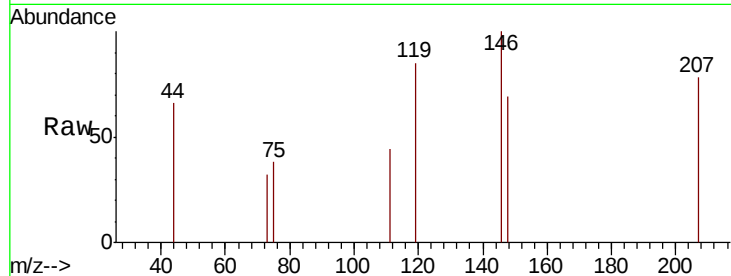
Tot Ion:146 Resp: 784

Ion Ratio Lower Upper

146 100

111 29.2 20.1 60.3

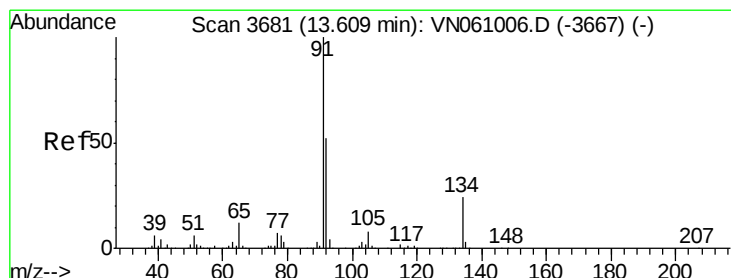
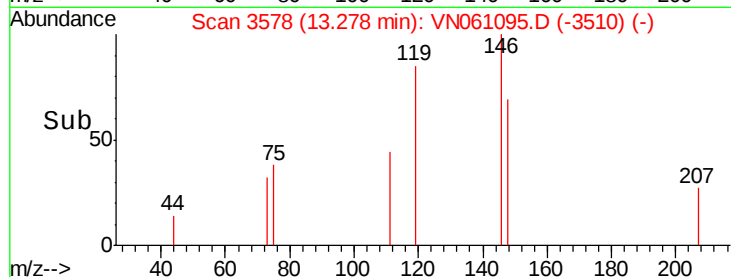
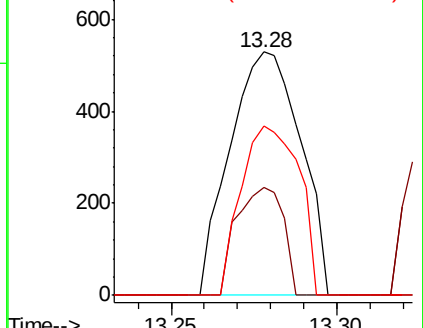
148 56.9 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.265 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

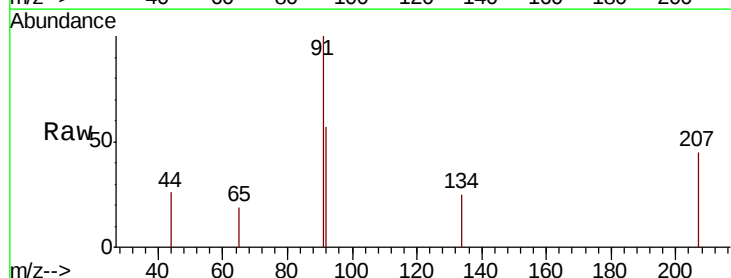
Tgt Ion: 91 Resp: 1665

Ion Ratio Lower Upper

91 100

92 44.3 26.1 78.2

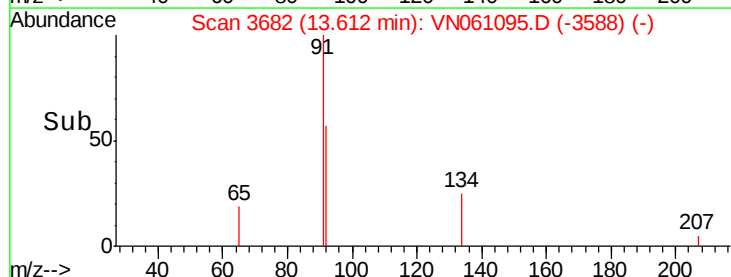
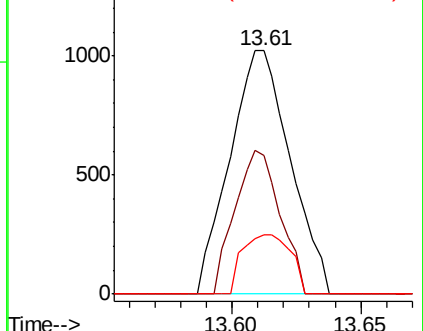
134 19.6 12.3 36.8

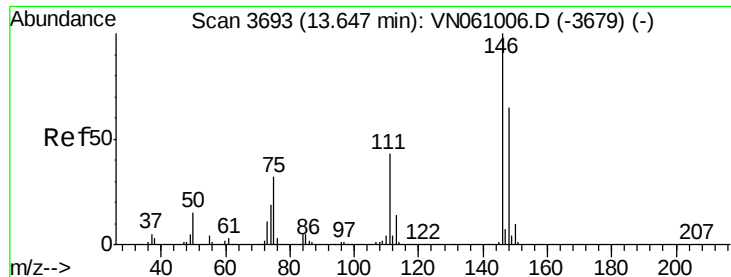


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

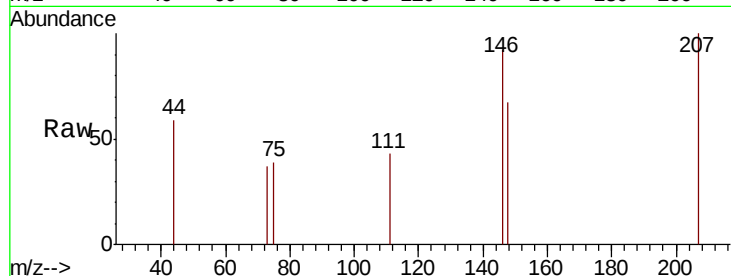




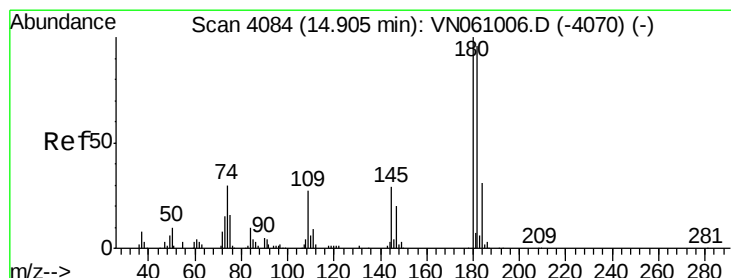
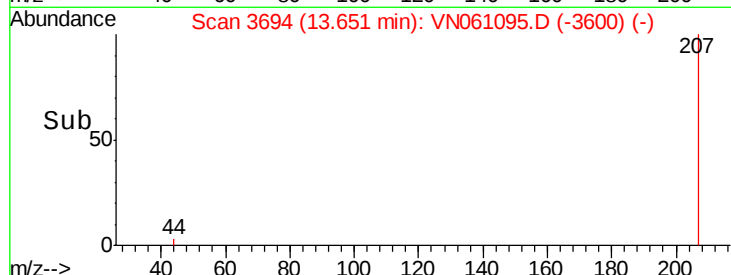
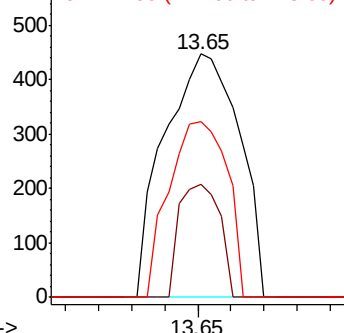
#91
 1,2-Dichlorobenzene
 Concen: 0.220 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 703
 Ion Ratio Lower Upper
 146 100
 111 25.2 21.3 64.0
 148 55.8 32.0 96.0

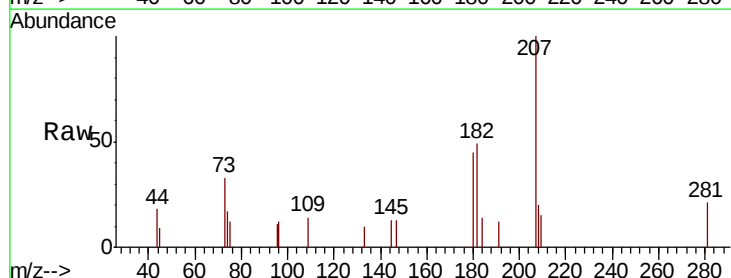


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

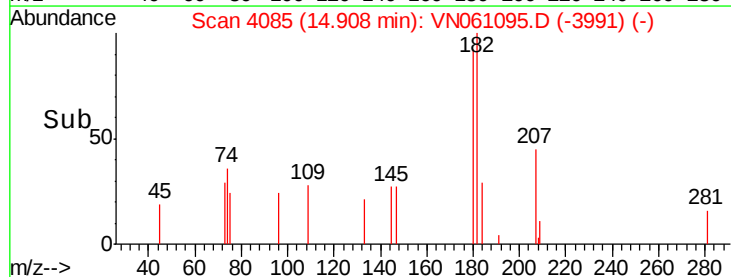
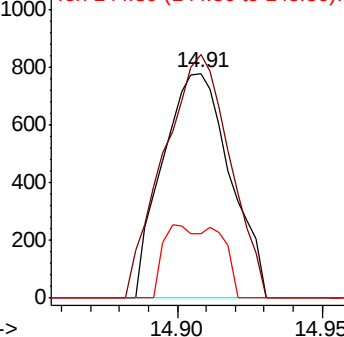


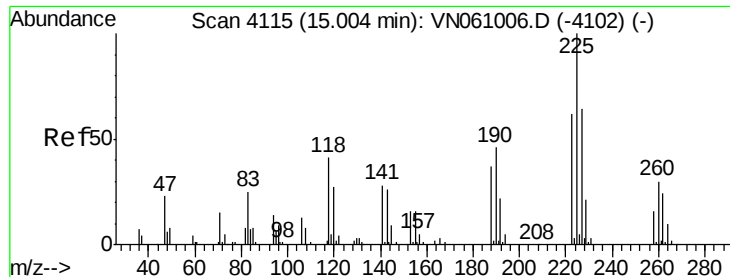
#93
 1,2,4-Trichlorobenzene
 Concen: 0.666 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Tgt Ion:180 Resp: 1261
 Ion Ratio Lower Upper
 180 100
 182 106.3 47.8 143.3
 145 27.6 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: 0.543 ug/l

RT: 15.00 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VN061095.D

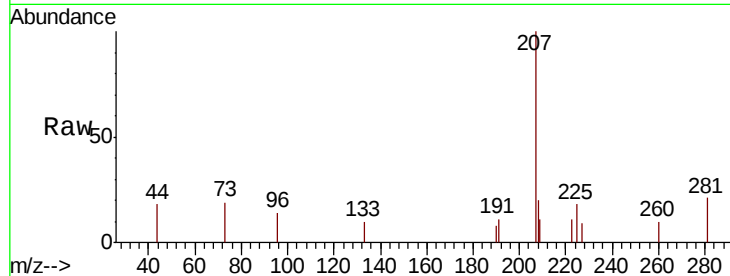
Acq: 20 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	529
Ion	Ratio	Lower	Upper
225	100		
223	52.9	31.3	93.8
227	41.0	31.9	95.5

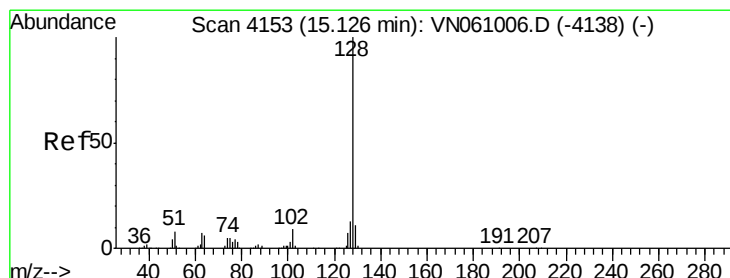
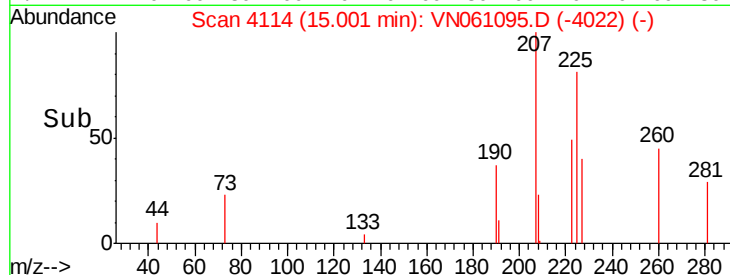
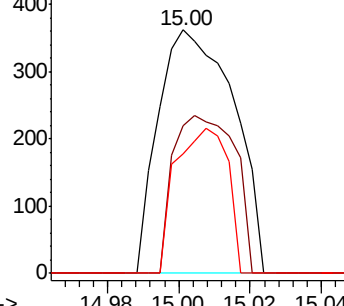


Abundance

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: 0.957 ug/l

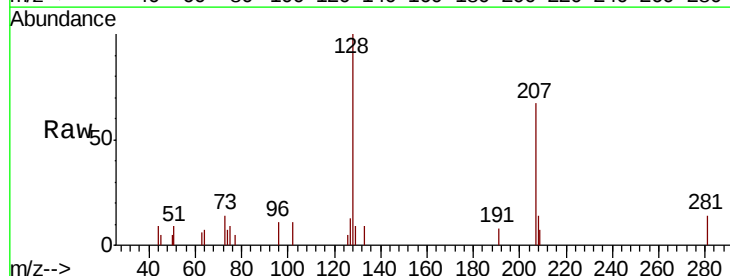
RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN061095.D

Acq: 20 Apr 2020 12:50

Tgt Ion:	128	Resp:	5288
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.2	15.4
129	8.6	8.6	13.0#

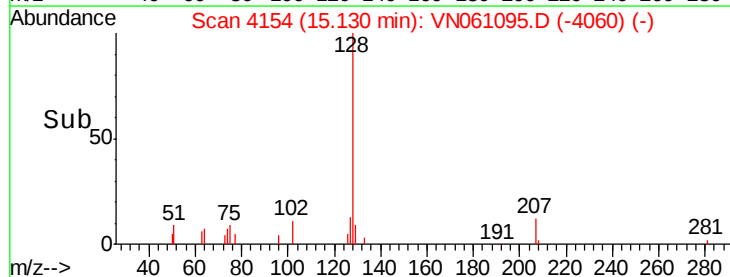
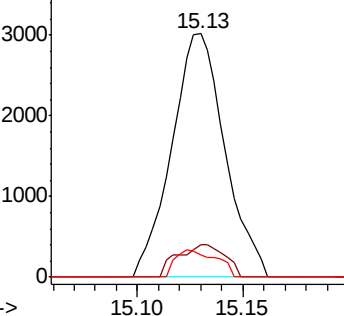


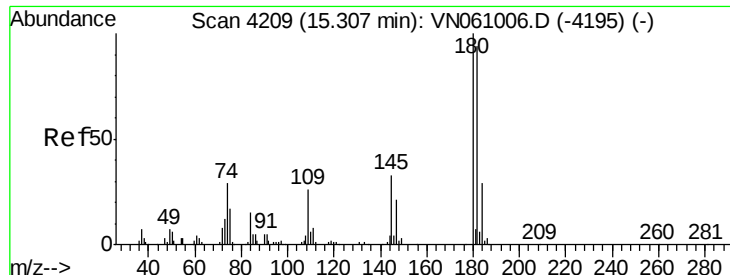
Abundance

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

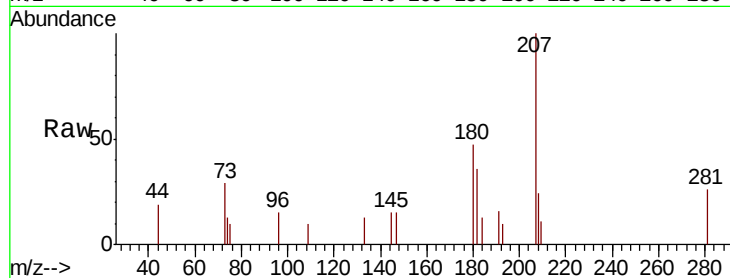




#96
 1,2,3-Trichlorobenzene
 Concen: 0.950 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.00 min
 Lab File: VN061095.D
 Acq: 20 Apr 2020 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	80.4	47.6	142.8
145	25.5	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

