

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061691.D
 Acq On : 8 Jun 2020 13:24
 Operator : JC/MD
 Sample : L2921-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW200-200604

Quant Time: Jun 09 03:11:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	321247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	523540	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	505657	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227061	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	173938	45.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.88%	
35) Dibromofluoromethane	7.55	113	150956	56.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.68%	
50) Toluene-d8	10.06	98	626403	50.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	12.38	95	219002	48.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.54%	

Target Compounds

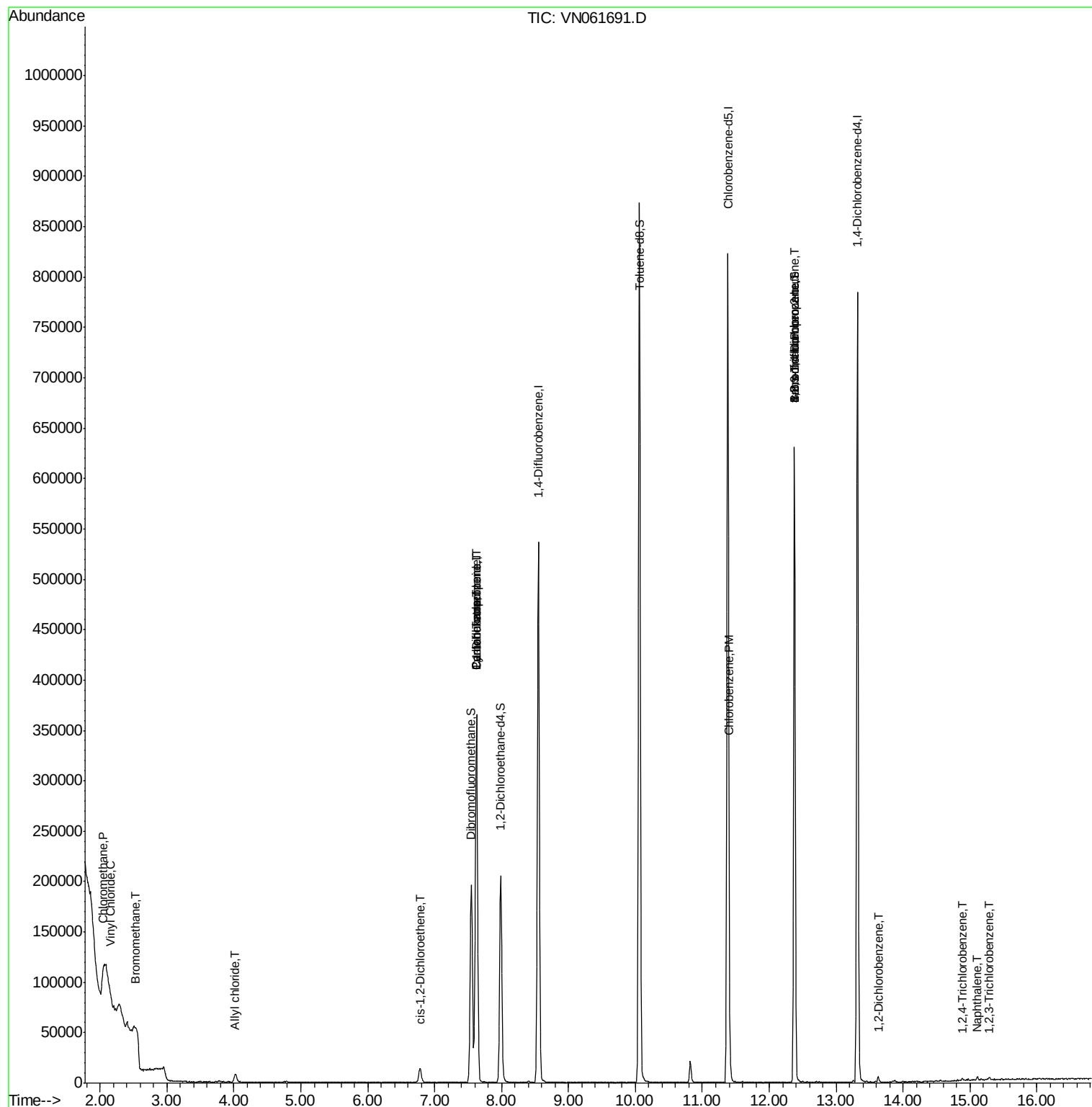
						Qvalue
3) Chloromethane	2.04	50	1540	0.39	ug/l	96
4) Vinyl Chloride	2.16	62	2690	0.50	ug/l	95
5) Bromomethane	2.54	94	797	0.26	ug/l #	73
14) Allyl chloride	4.03	41	1422	0.33	ug/l #	75
16) Acetone	3.78	43	2458	Below	Cal #	88
20) Methylene Chloride	4.51	84	204	Below	Cal #	11
27) cis-1,2-Dichloroethene	6.78	96	9173	2.19	ug/l	92
31) Cyclohexane	7.63	56	5491	1.02	ug/l #	5
36) 1,1-Dichloropropene	7.62	75	21060	4.54	ug/l #	46
38) Carbon Tetrachloride	7.63	117	29403	6.58	ug/l #	16
65) Chlorobenzene	11.41	112	18198	1.73	ug/l	99
71) Bromoform	12.37	173	1684	0.56	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	106312	25.75	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106312	65.85	ug/l #	15
91) 1,2-Dichlorobenzene	13.63	146	2572	0.36	ug/l	89
93) 1,2,4-Trichlorobenzene	14.88	180	1058	0.25	ug/l #	61
95) Naphthalene	15.11	128	3794	0.30	ug/l	96
96) 1,2,3-Trichlorobenzene	15.28	180	1021	0.25	ug/l	89

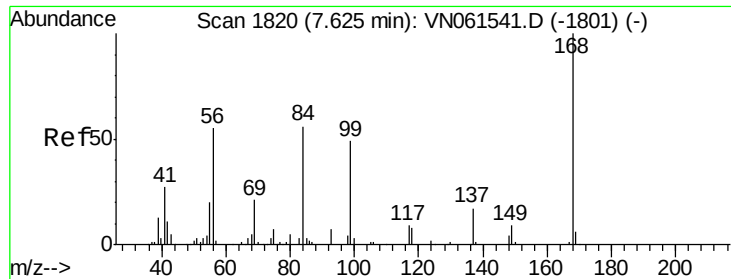
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

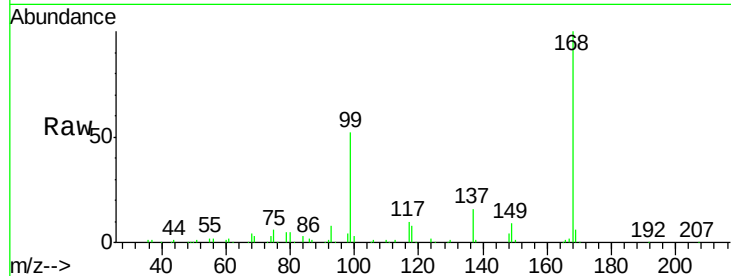
LF012MW200-200604

Tgt Ion:168 Resp: 321247

Ion Ratio Lower Upper

168 100

99 52.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061691.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061691.D (-1727) (-)

7.63

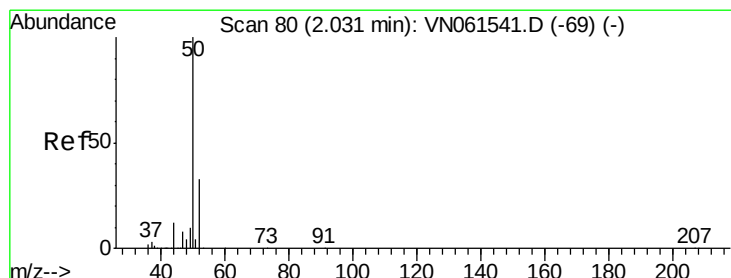
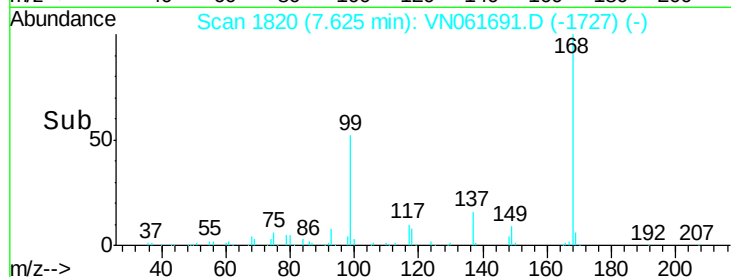
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.39 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061691.D

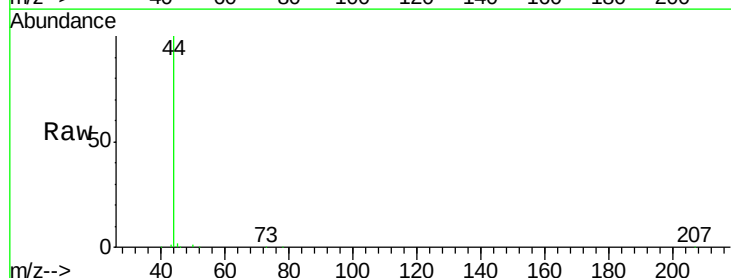
Acq: 8 Jun 2020 13:24

Tgt Ion: 50 Resp: 1540

Ion Ratio Lower Upper

50 100

52 31.1 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN061691.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN061691.D (-1) (-)

2.04

1200

1000

800

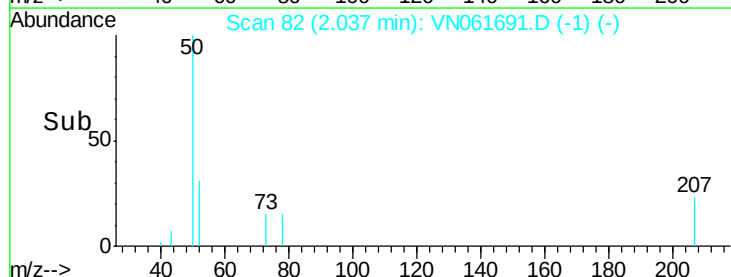
600

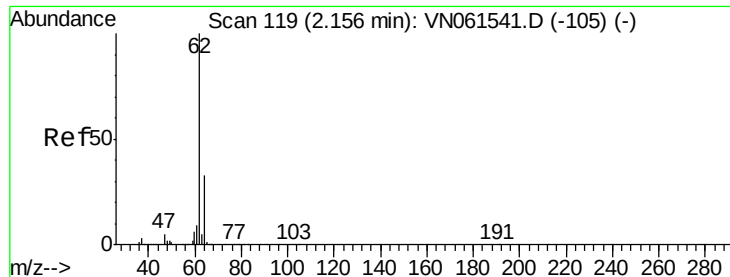
400

200

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 0.50 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

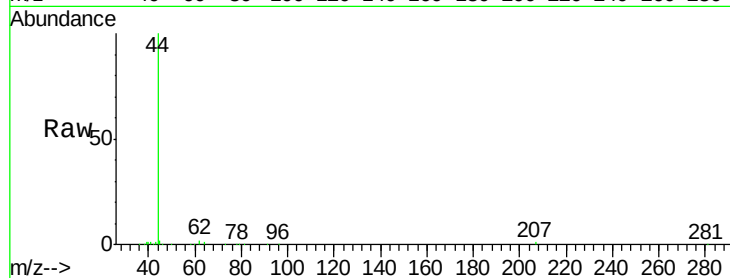
LF012MW200-200604

Tgt Ion: 62 Resp: 2690

Ion Ratio Lower Upper

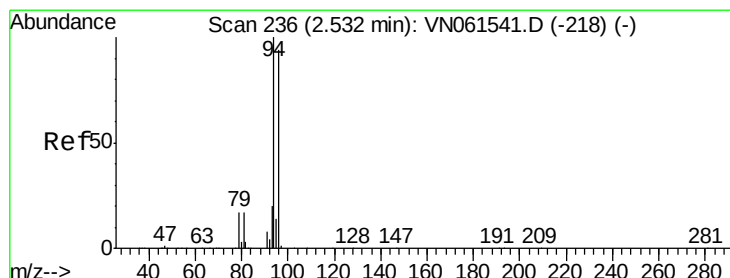
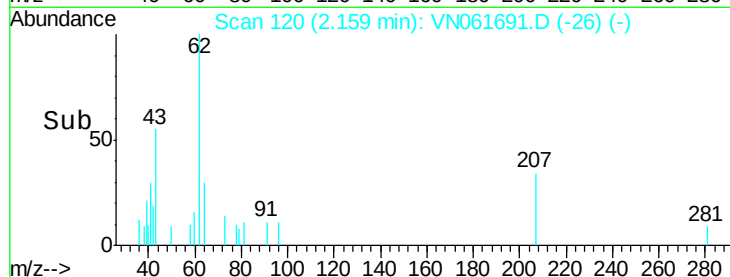
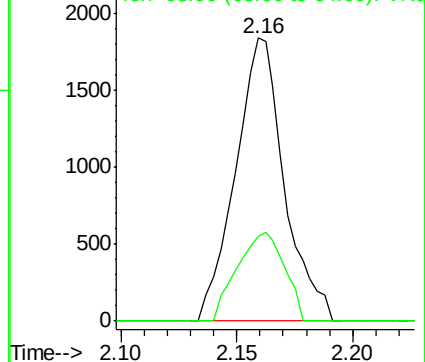
62 100

64 30.2 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#5

Bromomethane

Concen: 0.26 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN061691.D

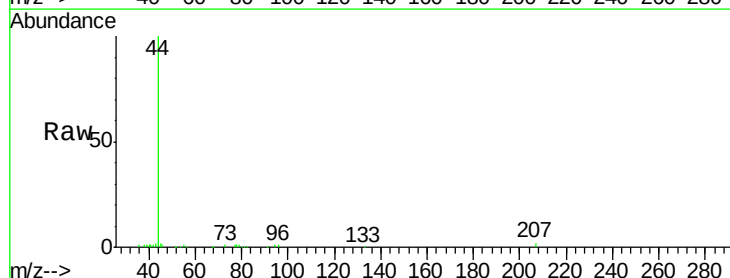
Acq: 8 Jun 2020 13:24

Tgt Ion: 94 Resp: 797

Ion Ratio Lower Upper

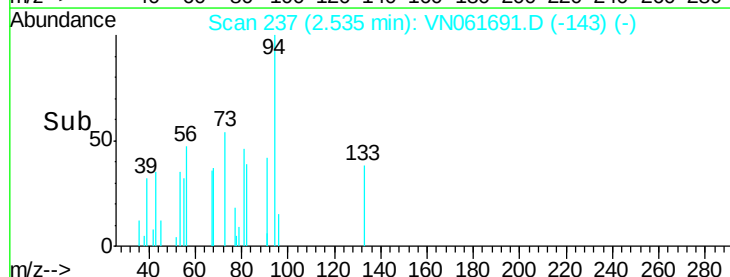
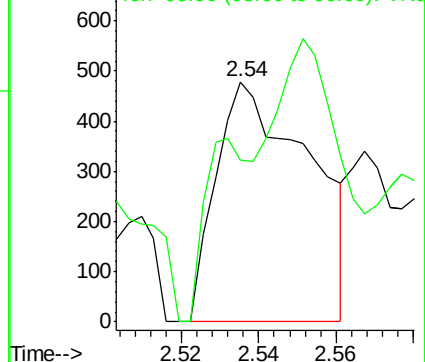
94 100

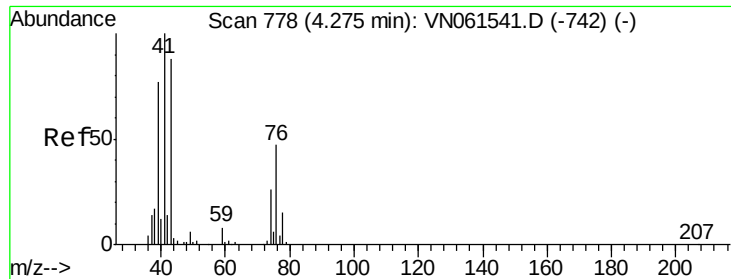
96 67.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

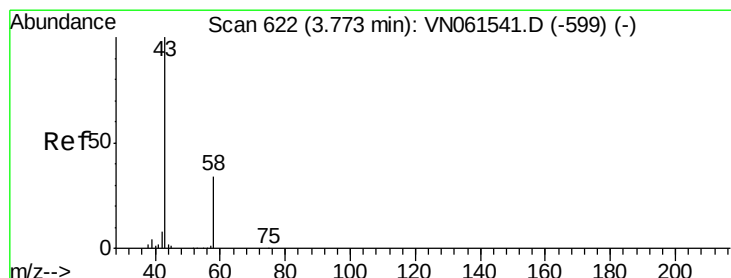
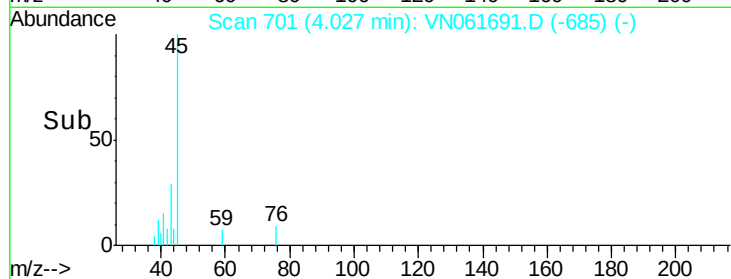
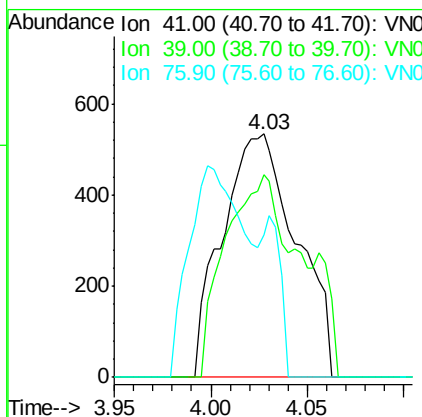
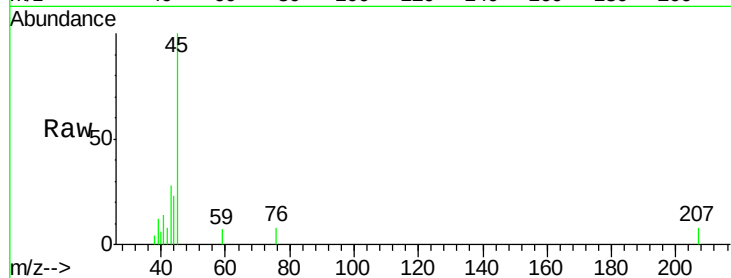




#14
 Allyl chloride
 Concen: 0.33 ug/l
 RT: 4.03 min Scan# 701
 Delta R.T. -0.25 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

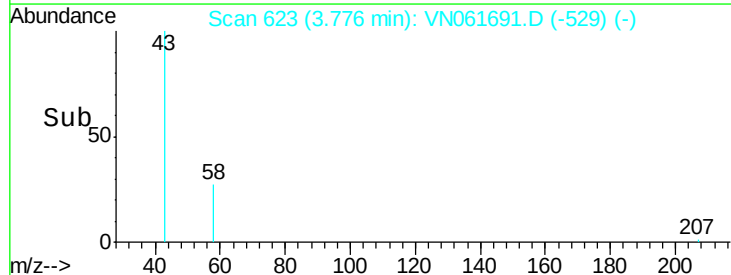
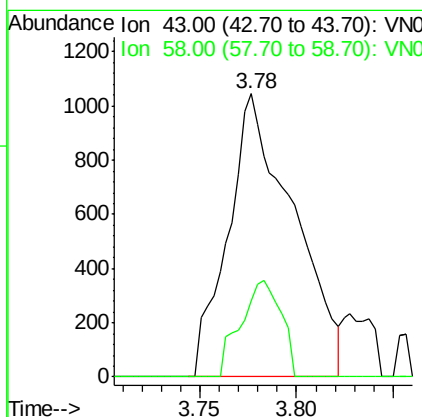
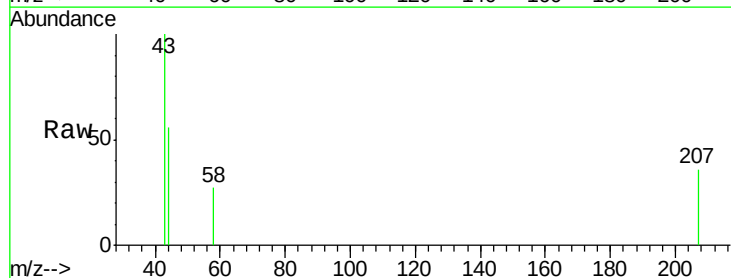
Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW200-200604

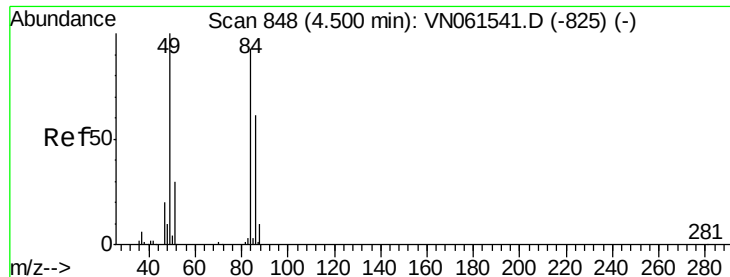
Tgt Ion: 41 Resp: 1422
 Ion Ratio Lower Upper
 41 100
 39 74.0 58.6 88.0
 76 0.0 34.2 51.4#



#16
 Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

Tgt Ion: 43 Resp: 2458
 Ion Ratio Lower Upper
 43 100
 58 26.9 27.2 40.8#

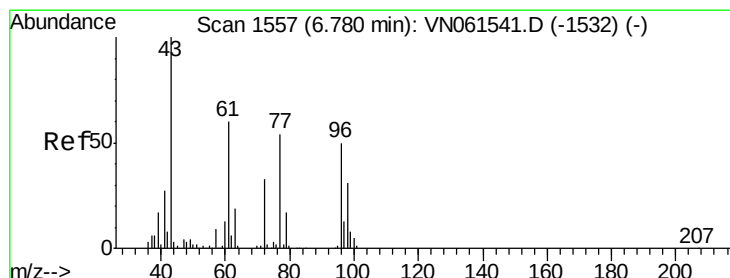
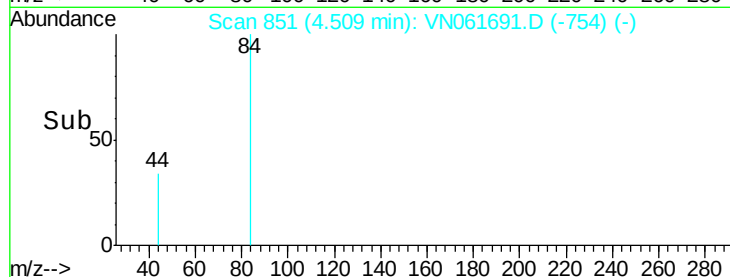
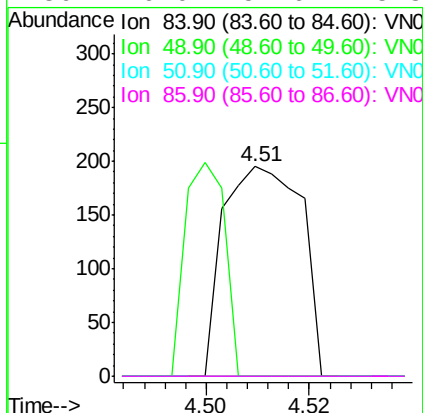
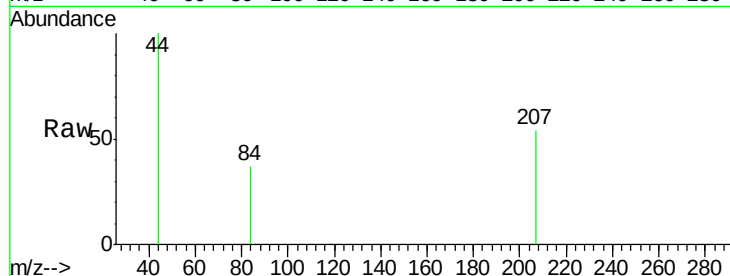




#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN061691.D
Acq: 8 Jun 2020 13:24

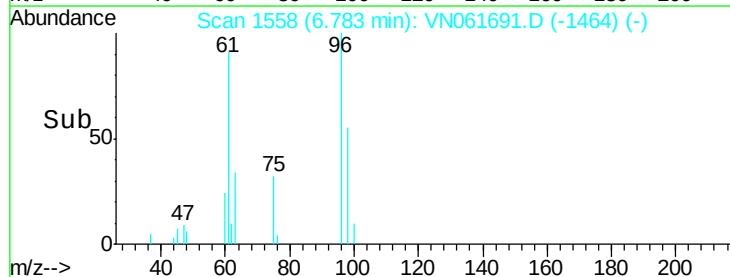
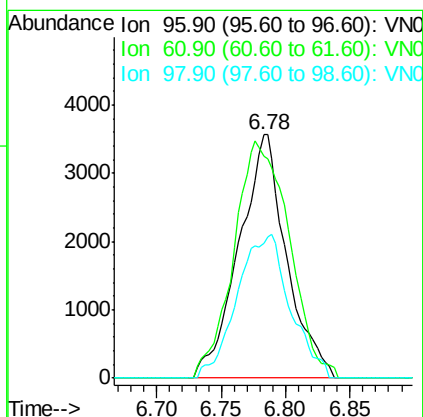
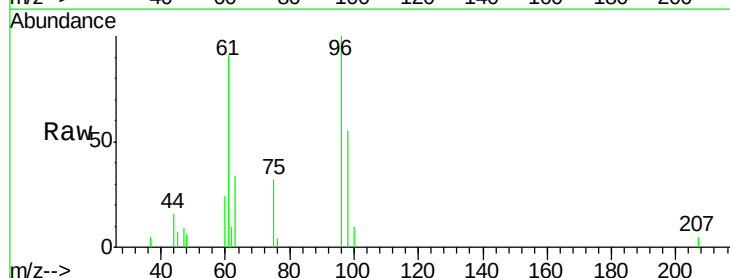
Instrument :
MSVOA_N
ClientSampleId :
LF012MW200-200604

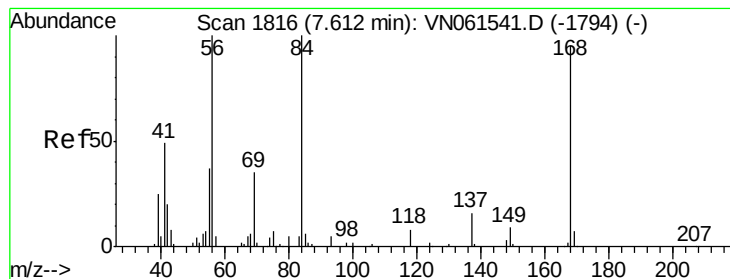
Tgt Ion: 84 Resp: 204
Ion Ratio Lower Upper
84 100
49 0.0 85.8 128.8#
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#



#27
cis-1,2-Dichloroethene
Concen: 2.19 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VN061691.D
Acq: 8 Jun 2020 13:24

Tgt Ion: 96 Resp: 9173
Ion Ratio Lower Upper
96 100
61 113.2 0.0 252.2
98 65.6 0.0 129.2





#31

Cyclohexane

Concen: 1.02 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

LF012MW200-200604

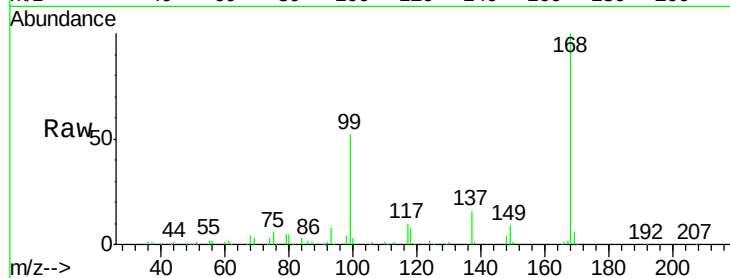
Tgt Ion: 56 Resp: 5491

Ion Ratio Lower Upper

56 100

69 176.6 27.8 41.8#

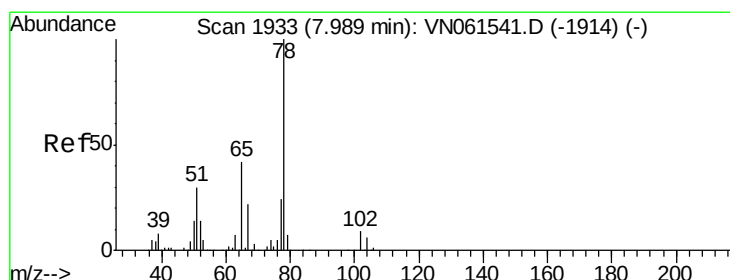
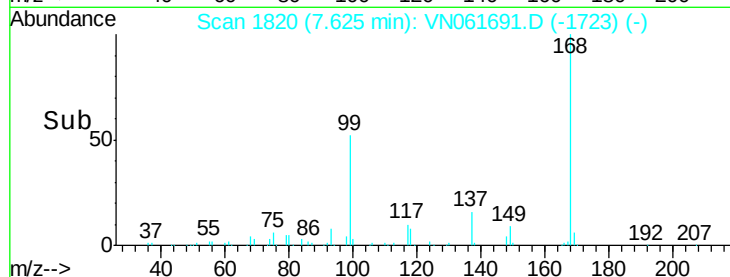
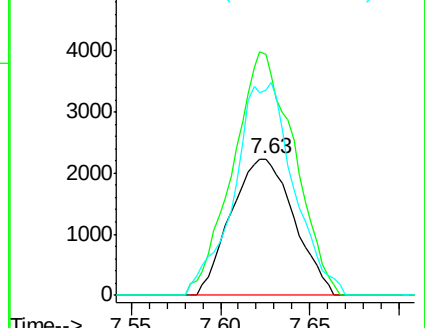
84 142.8 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 45.44 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061691.D

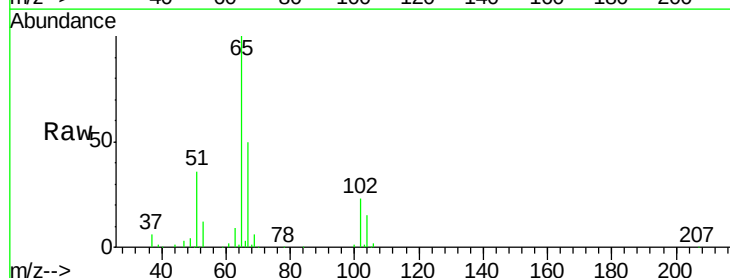
Acq: 8 Jun 2020 13:24

Tgt Ion: 65 Resp: 173938

Ion Ratio Lower Upper

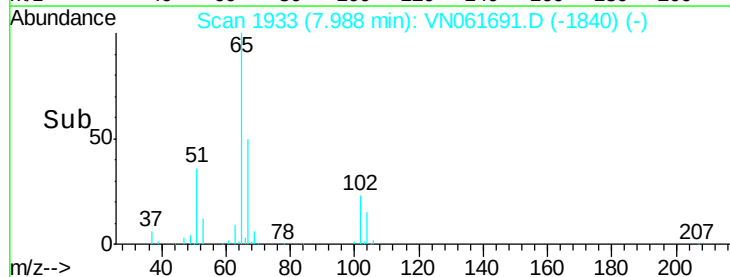
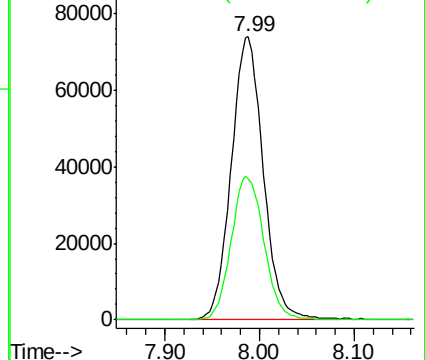
65 100

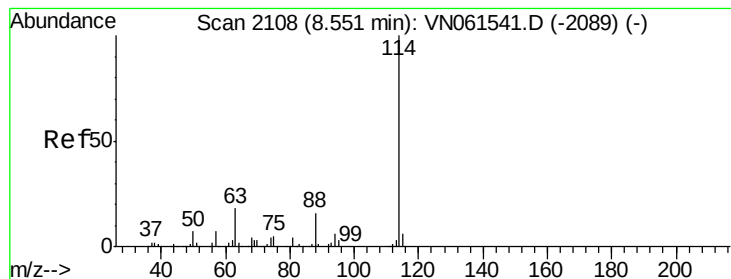
67 51.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

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ClientSampleId :

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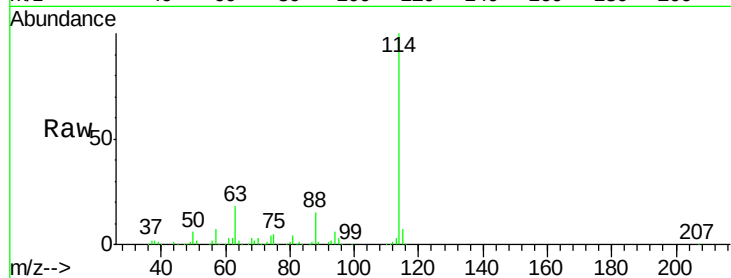
Tgt Ion:114 Resp: 523540

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.8

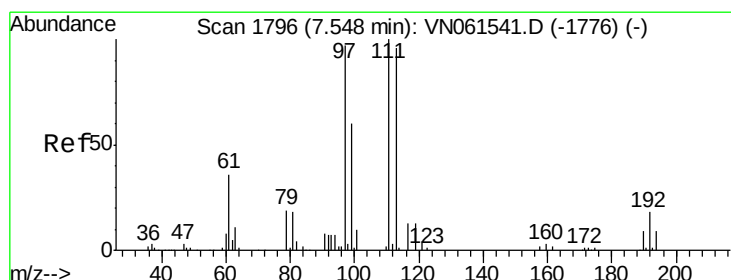
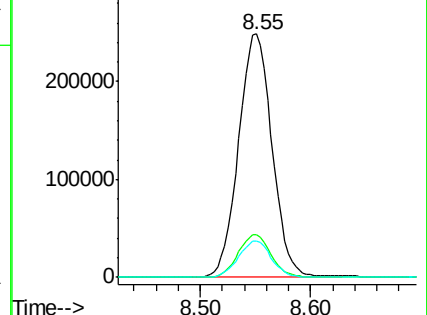
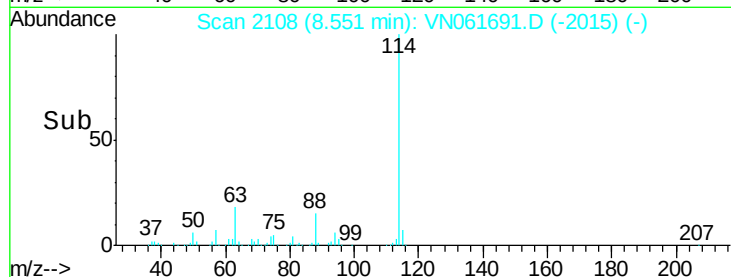
88 15.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 56.84 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

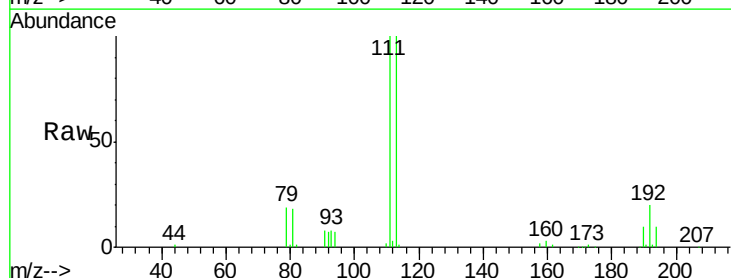
Tgt Ion:113 Resp: 150956

Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.0

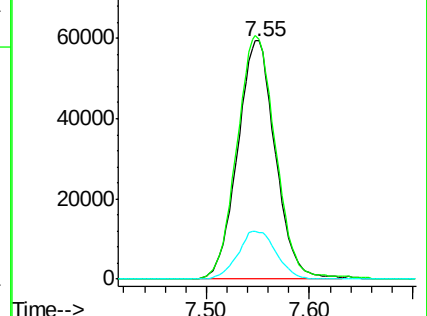
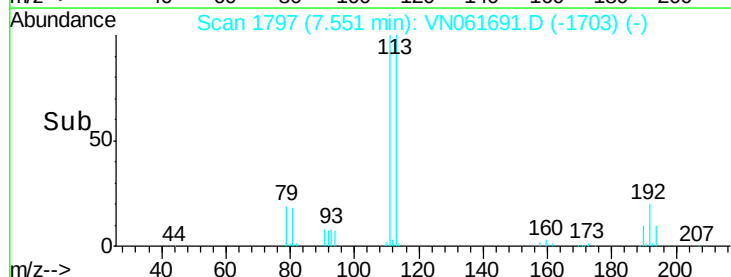
192 20.4 15.4 23.2

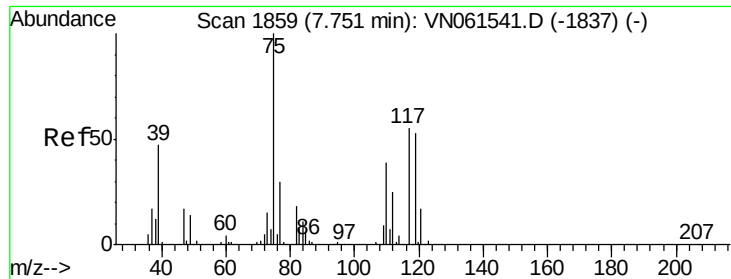


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

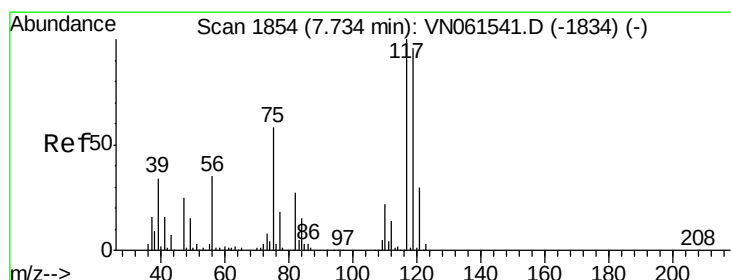
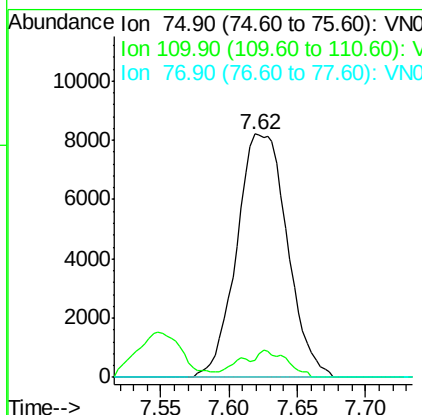
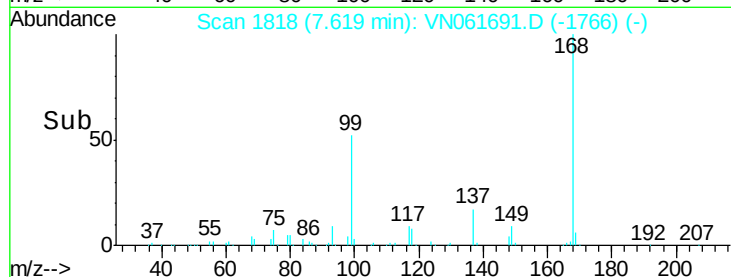
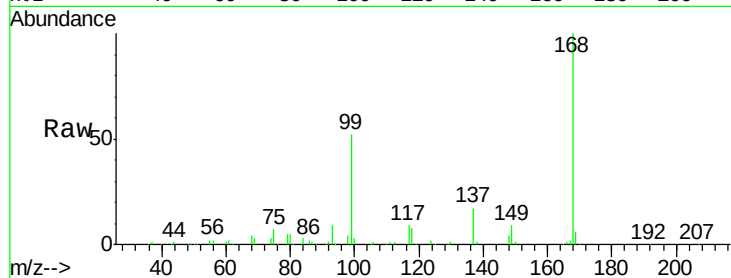




#36
 1,1-Dichloropropene
 Concen: 4.54 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

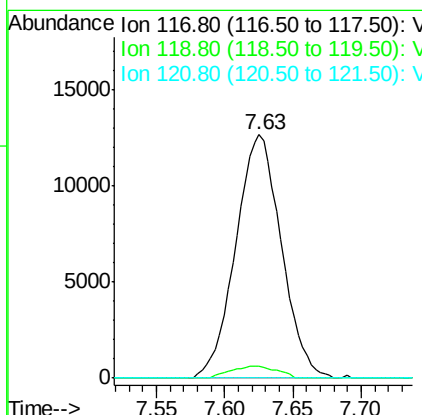
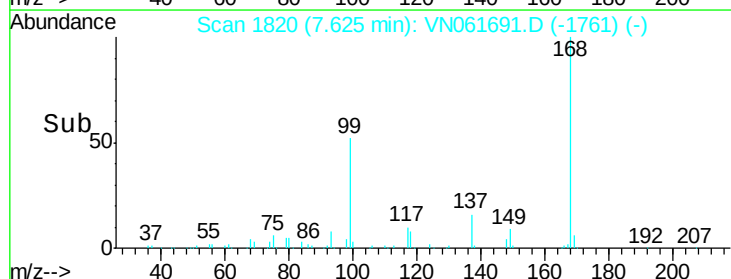
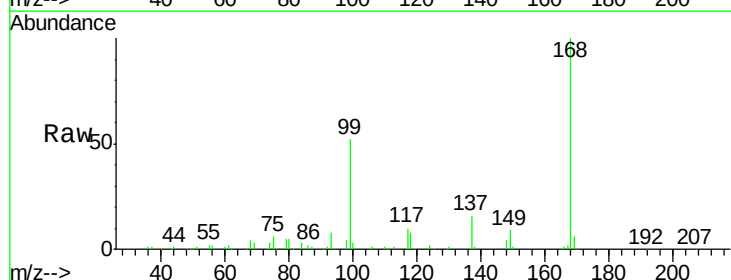
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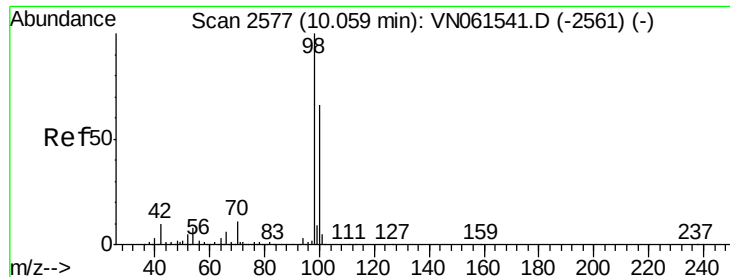
Tgt Ion: 75 Resp: 21060
 Ion Ratio Lower Upper
 75 100
 110 6.9 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.58 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

Tgt Ion: 117 Resp: 29403
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.5 114.7#
 121 0.0 24.1 36.1#





#50

Toluene-d8

Concen: 50.90 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

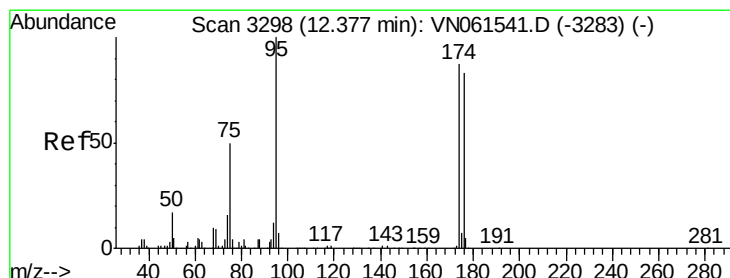
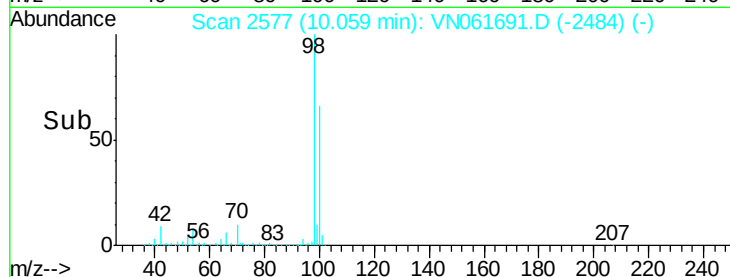
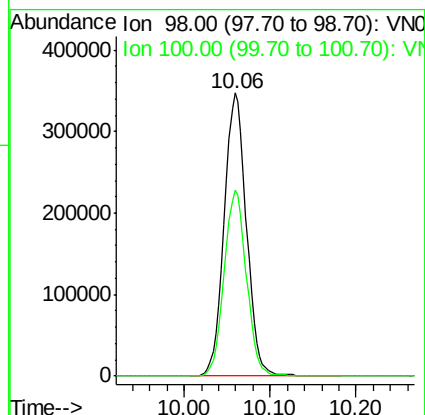
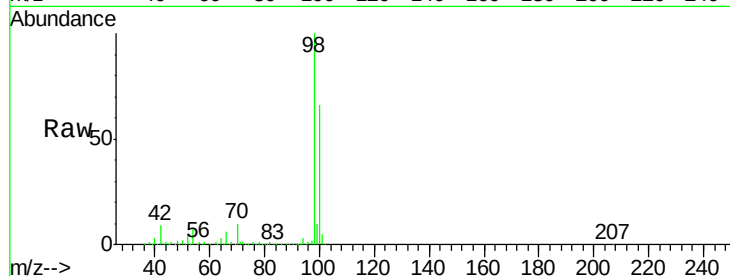
LF012MW200-200604

Tgt Ion: 98 Resp: 626403

Ion Ratio Lower Upper

98 100

100 65.7 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 48.77 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

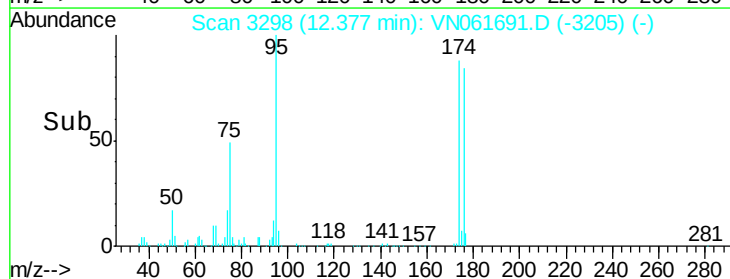
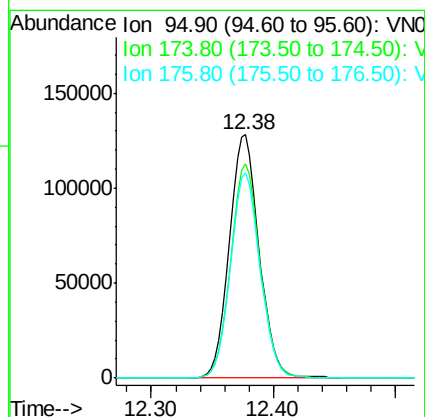
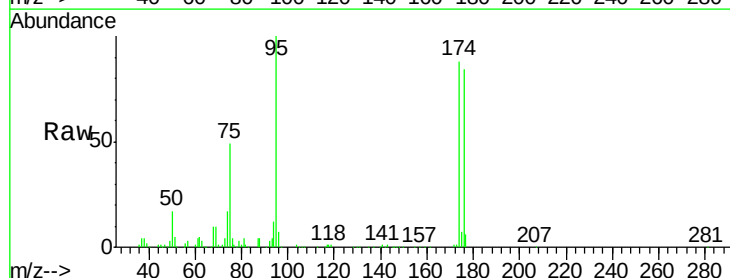
Tgt Ion: 95 Resp: 219002

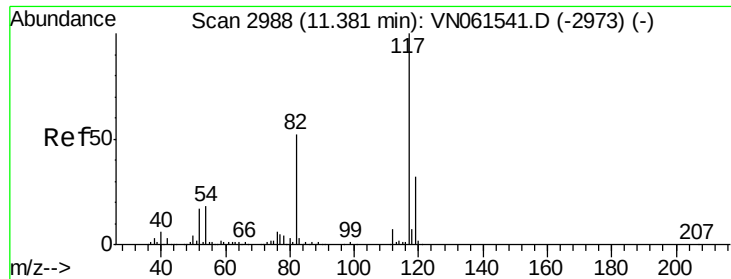
Ion Ratio Lower Upper

95 100

174 87.3 0.0 172.8

176 83.6 0.0 164.8

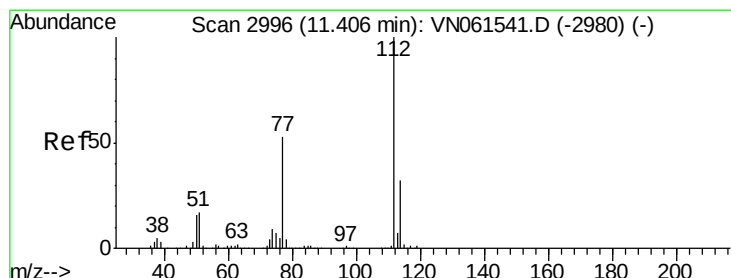
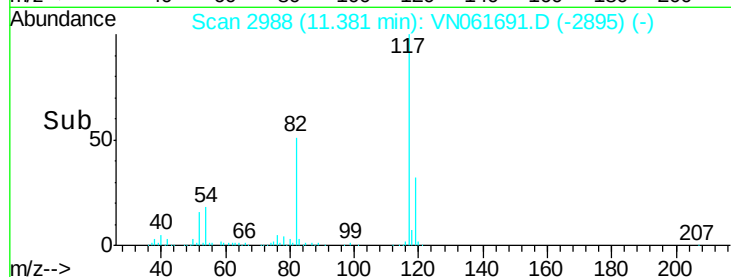
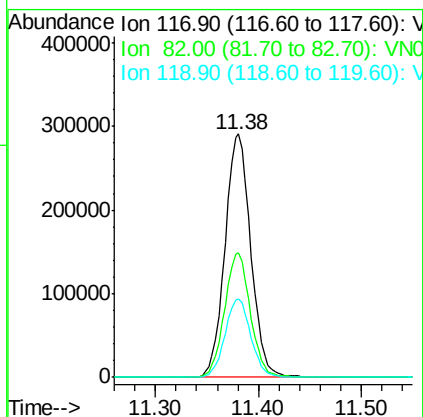
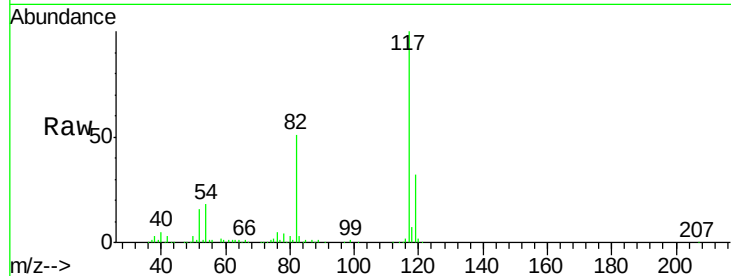




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061691.D
Acq: 8 Jun 2020 13:24

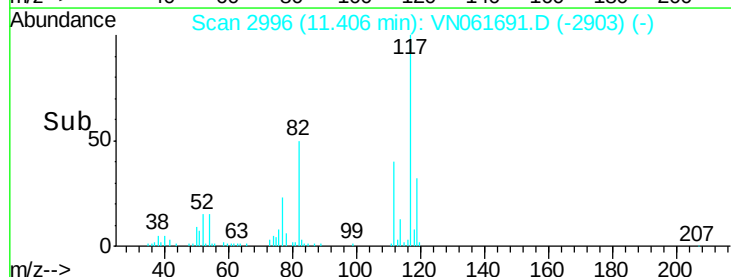
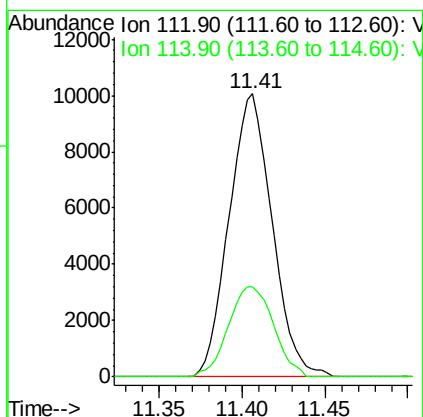
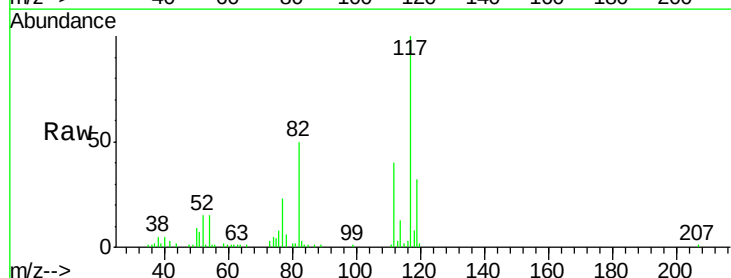
Instrument :
MSVOA_N
ClientSampleId :
LF012MW200-200604

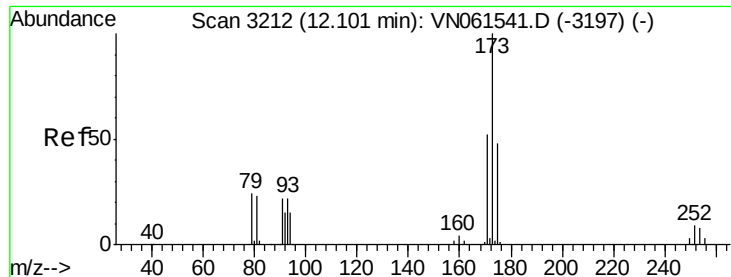
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.5	62.3
119	32.5	25.6	38.4



#65
Chlorobenzene
Concen: 1.73 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN061691.D
Acq: 8 Jun 2020 13:24

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.7	38.5





#71

Bromoform

Concen: 0.56 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

LF012MW200-200604

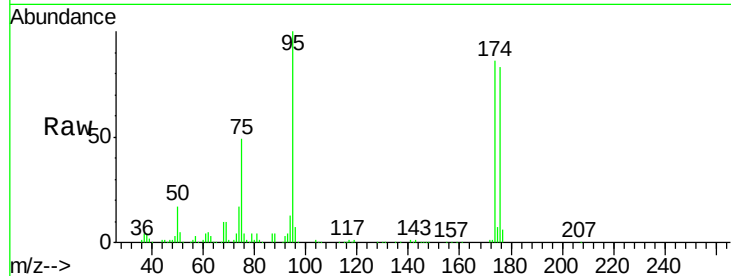
Tgt Ion:173 Resp: 1684

Ion Ratio Lower Upper

173 100

175 696.7 24.4 73.2#

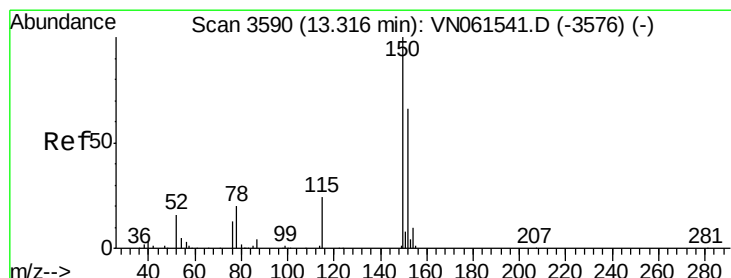
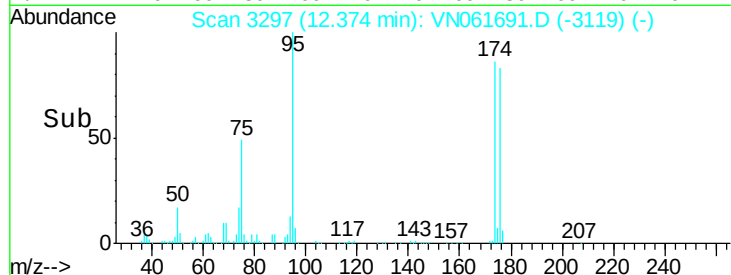
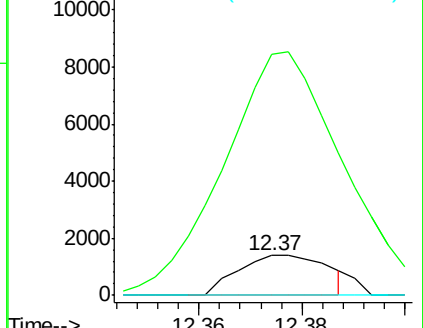
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

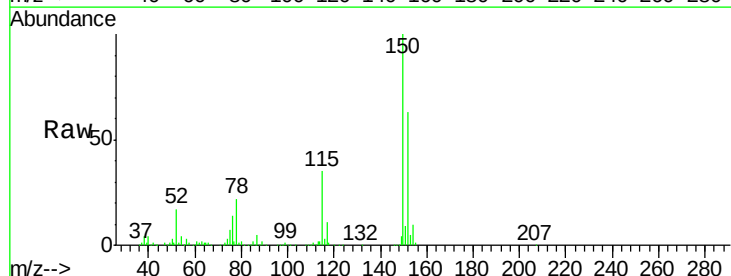
Tgt Ion:152 Resp: 227061

Ion Ratio Lower Upper

152 100

115 56.4 28.0 84.0

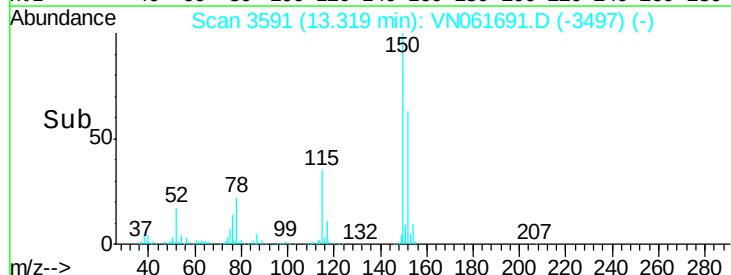
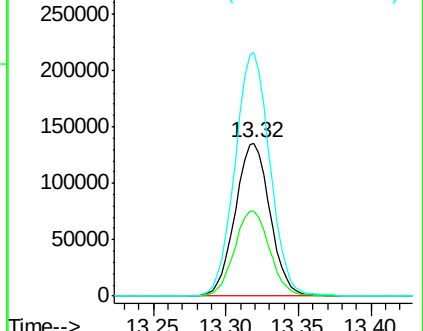
150 160.0 0.0 344.0

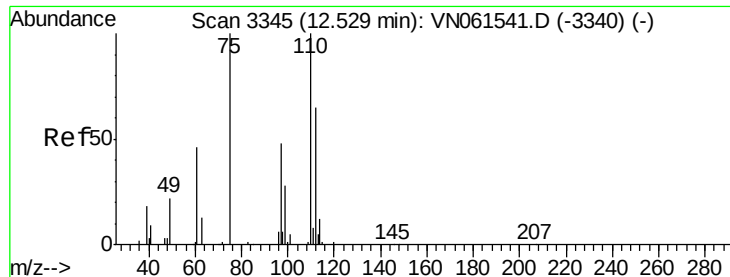


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.75 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

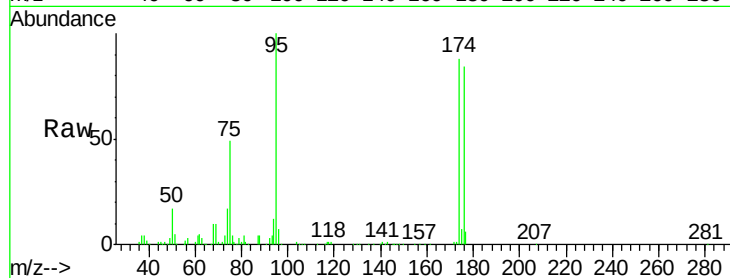
LF012MW200-200604

Tgt Ion: 75 Resp: 106312

Ion Ratio Lower Upper

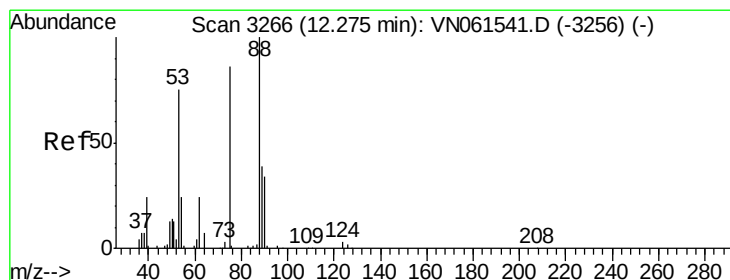
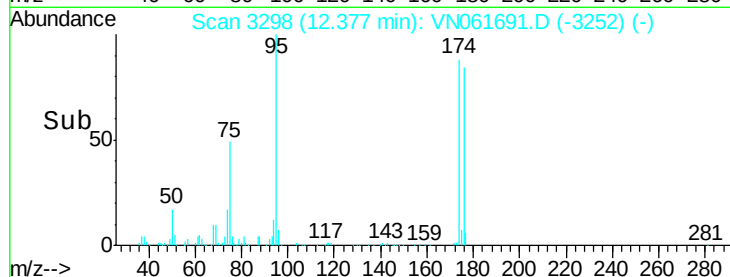
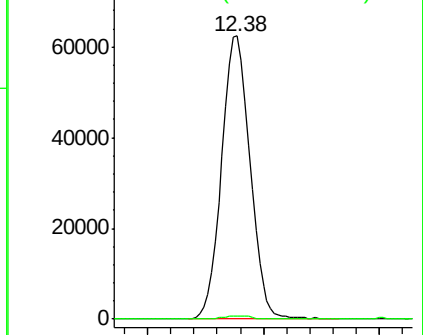
75 100

77 1.1 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: 65.85 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

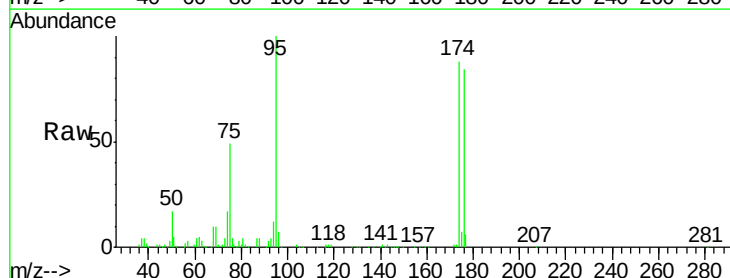
Tgt Ion: 75 Resp: 106312

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

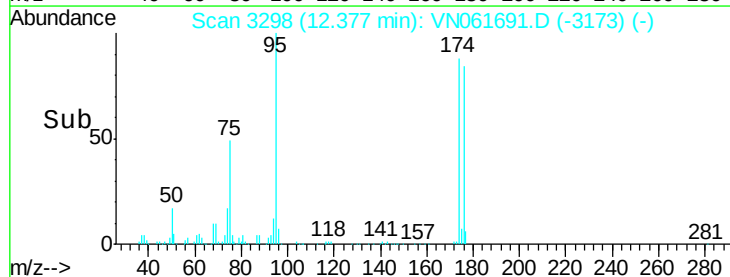
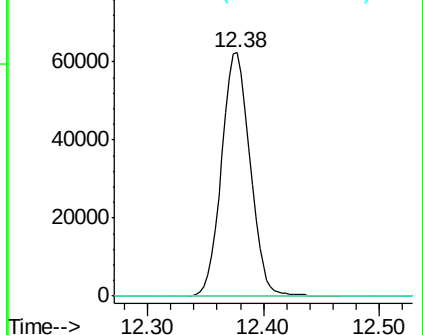
89 0.0 37.1 55.7#

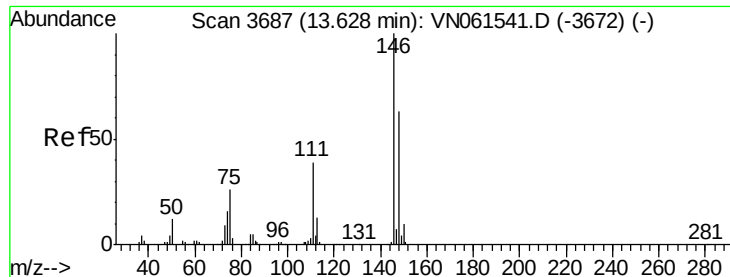


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

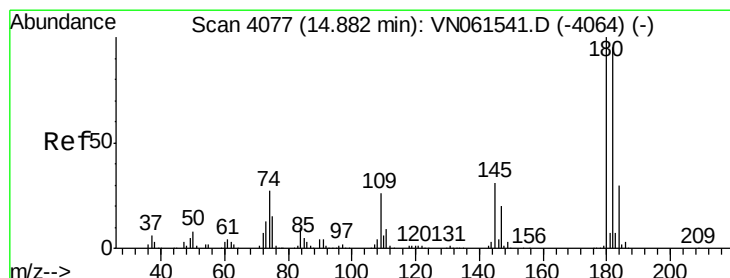
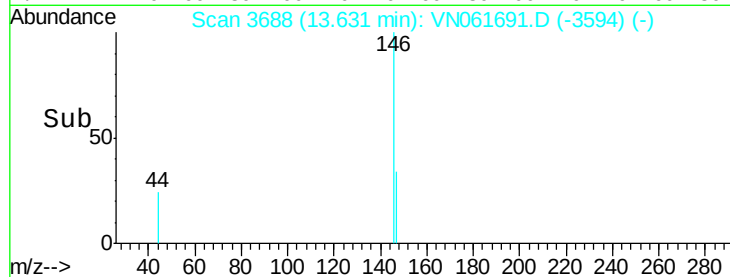
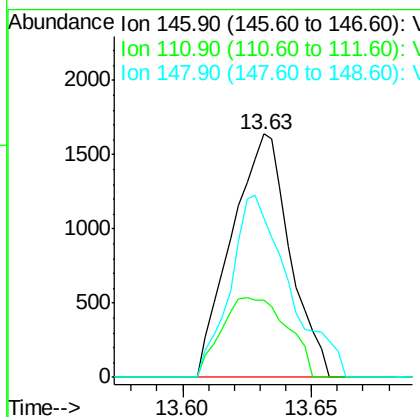
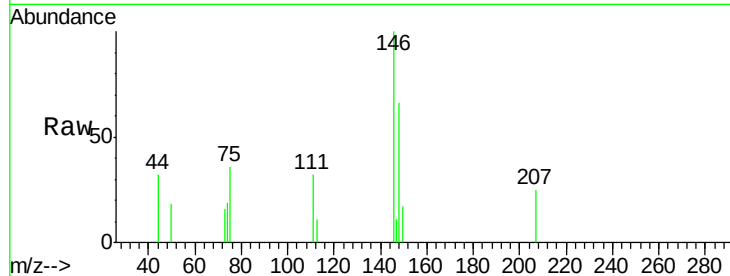




#91
 1,2-Dichlorobenzene
 Concen: 0.36 ug/l
 RT: 13.63 min Scan# 3688
 Delta R.T. 0.00 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

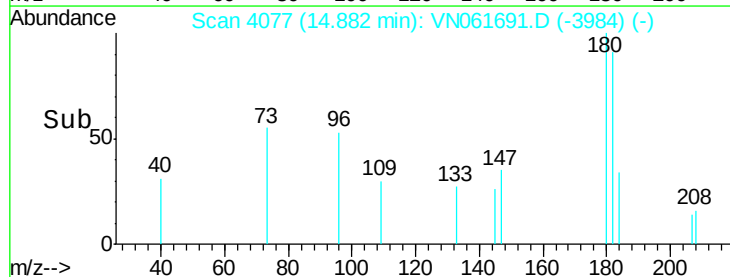
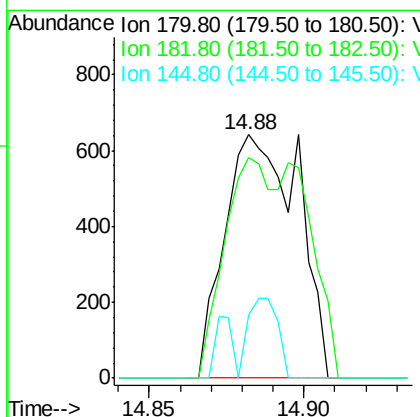
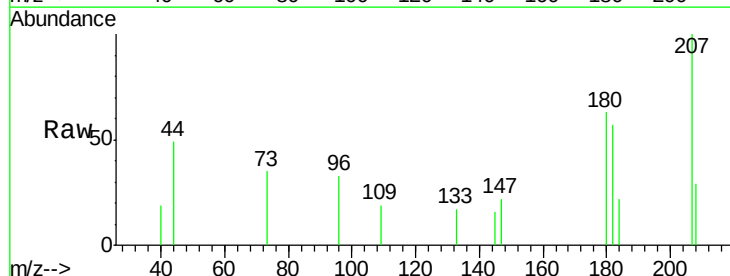
Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW200-200604

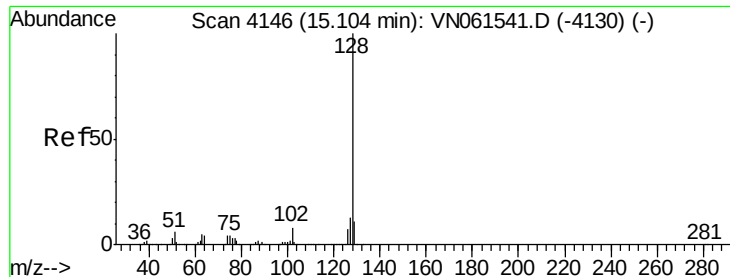
Tgt Ion:146 Resp: 2572
 Ion Ratio Lower Upper
 146 100
 111 37.1 20.1 60.2
 148 75.8 31.9 95.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.25 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. -0.00 min
 Lab File: VN061691.D
 Acq: 8 Jun 2020 13:24

Tgt Ion:180 Resp: 1058
 Ion Ratio Lower Upper
 180 100
 182 55.0 47.8 143.3
 145 13.4 15.5 46.5#





#95

Naphthalene

Concen: 0.30 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

Instrument :

MSVOA_N

ClientSampleId :

LF012MW200-200604

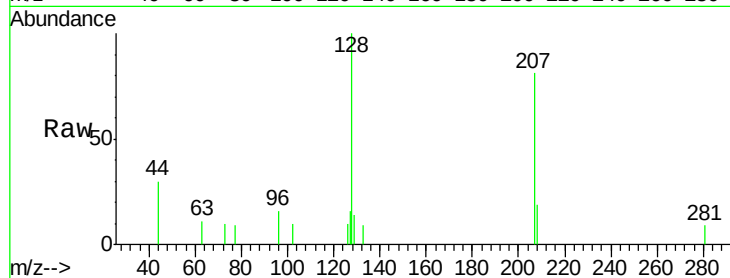
Tgt Ion:128 Resp: 3794

Ion Ratio Lower Upper

128 100

127 10.8 10.0 15.0

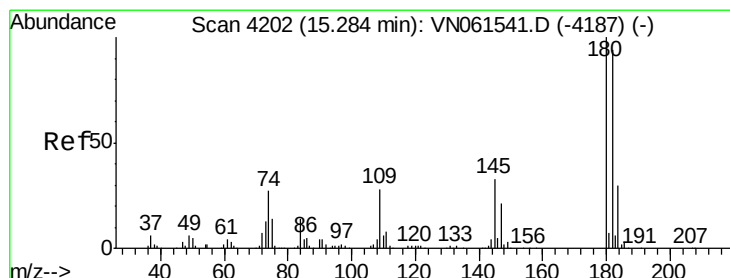
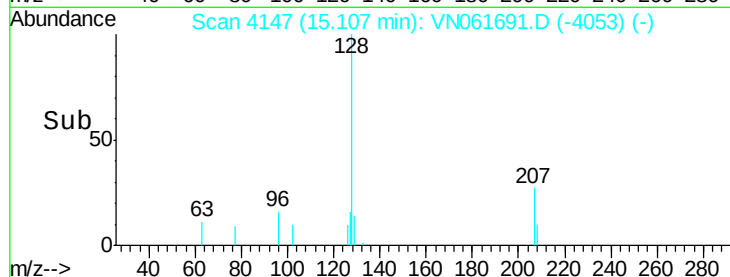
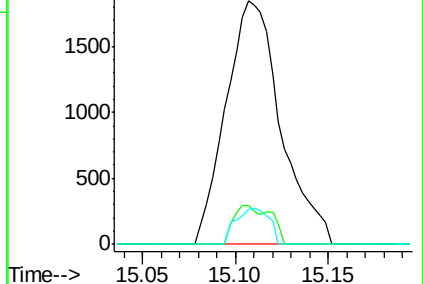
129 8.9 8.5 12.7



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: 0.25 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. -0.00 min

Lab File: VN061691.D

Acq: 8 Jun 2020 13:24

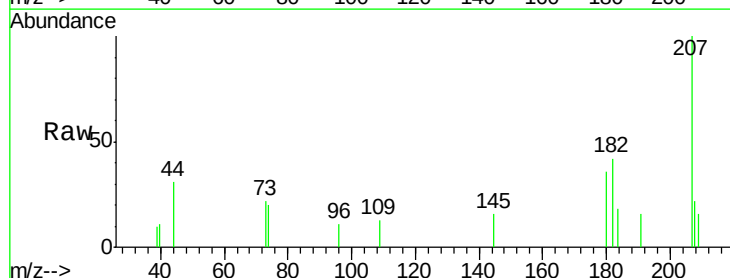
Tgt Ion:180 Resp: 1021

Ion Ratio Lower Upper

180 100

182 101.5 47.1 141.3

145 21.5 16.3 48.9



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

