

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064834.D
 Acq On : 25 Nov 2020 1:30
 Operator : JC/MD
 Sample : L4798-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20201118

Quant Time: Nov 25 05:58:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	156801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	273975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	285566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	131981	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	97436	53.45	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	106.90%
35) Dibromofluoromethane	7.55	113	89341	54.50	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	109.00%
50) Toluene-d8	10.06	98	345648	51.60	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.20%
62) 4-Bromofluorobenzene	12.37	95	133517	55.70	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.40%

Target Compounds

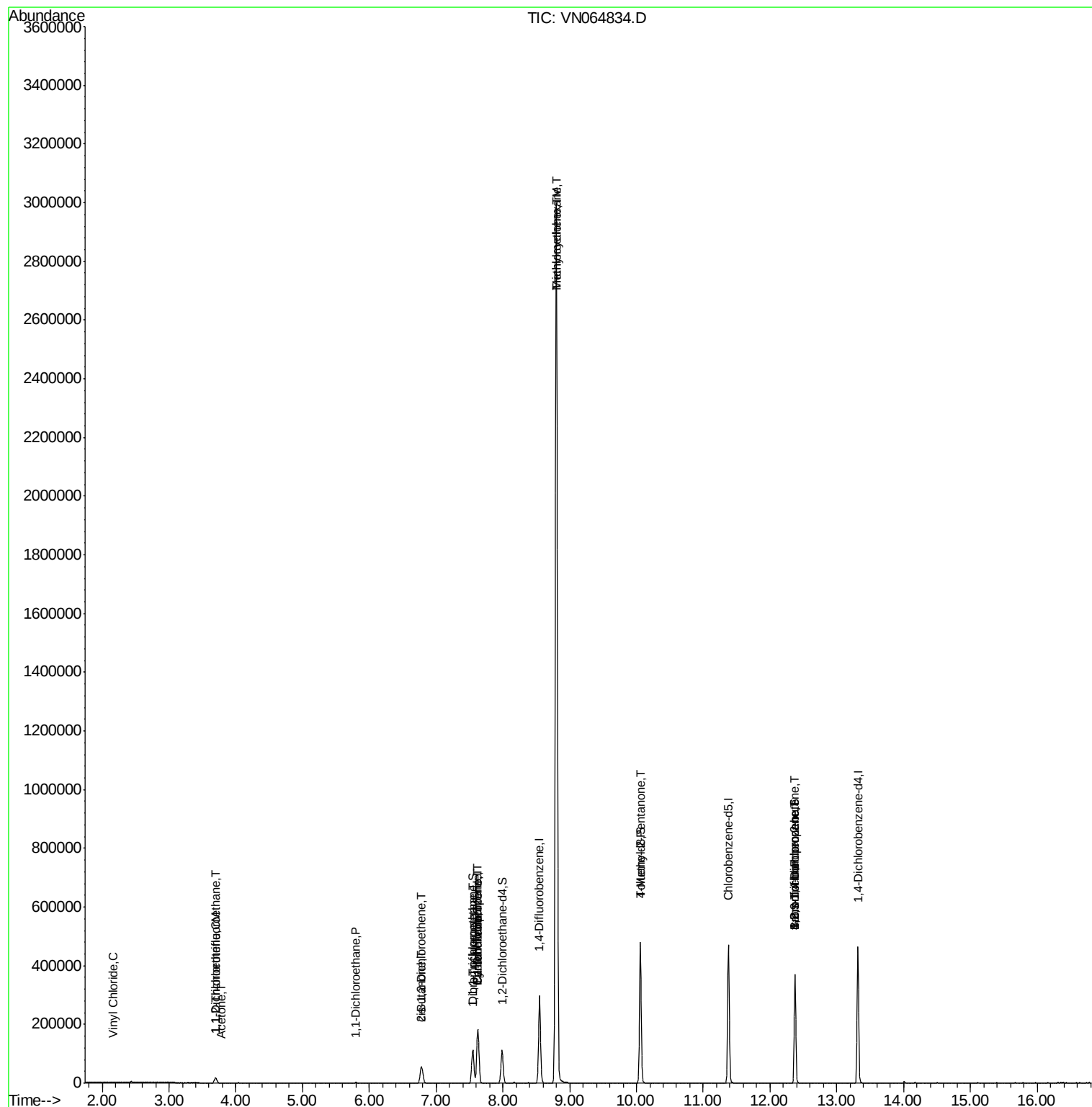
					Qvalue	
4) Vinyl Chloride	2.16	62	1368	0.743	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.71	101	2687	1.760	ug/l #	86
12) 1,1-Dichloroethene	3.69	96	9047	5.950	ug/l	89
16) Acetone	3.78	43	442	0.738	ug/l #	43
24) 1,1-Dichloroethane	5.80	63	3303	1.101	ug/l #	82
25) 2-Butanone	6.77	43	237	0.244	ug/l #	49
27) cis-1,2-Dichloroethene	6.78	96	39951	21.027	ug/l	87
31) Cyclohexane	7.63	56	2852	1.123	ug/l #	6
32) 1,1,1-Trichloroethane	7.53	97	697	0.262	ug/l #	43
36) 1,1-Dichloropropene	7.62	75	11044	4.349	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14215	5.380	ug/l #	16
39) Methylcyclohexane	8.80	83	13568	4.963	ug/l #	1
44) Trichloroethene	8.80	130	1168492	508.914	ug/l	98
51) 4-Methyl-2-Pentanone	10.06	43	1488	0.630	ug/l #	1
71) Bromoform	12.38	173	906	0.503	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	64830	22.809	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	64830	62.514	ug/l #	15

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

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

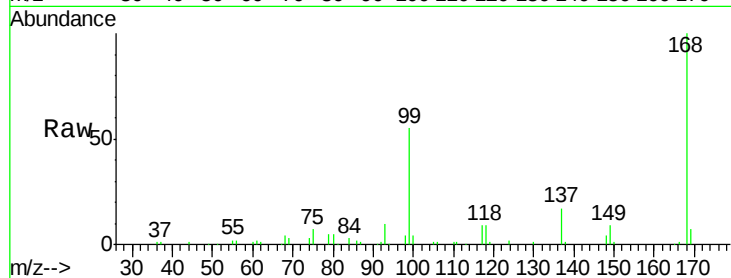
48BR-20201118

Tot Ion:168 Resp: 156801

Ion Ratio Lower Upper

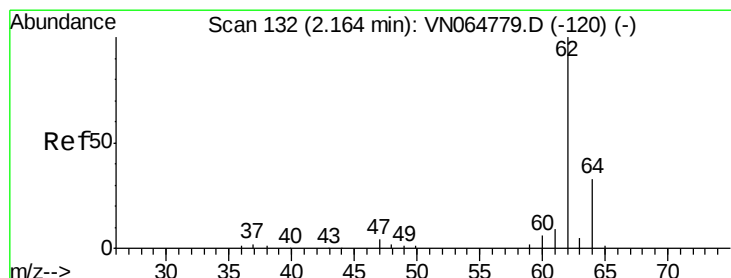
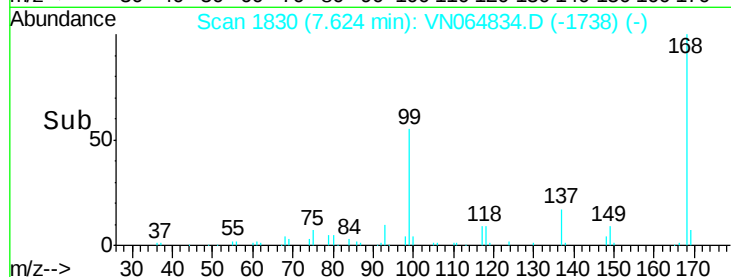
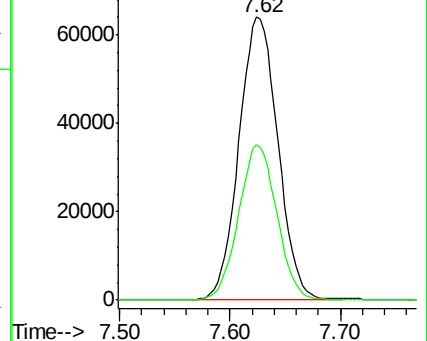
168 100

99 54.8 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 0.743 ug/l

RT: 2.16 min Scan# 132

Delta R.T. 0.00 min

Lab File: VN064834.D

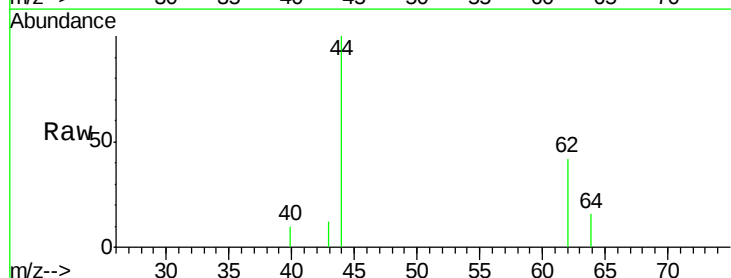
Acq: 25 Nov 2020 1:30

Tgt Ion: 62 Resp: 1368

Ion Ratio Lower Upper

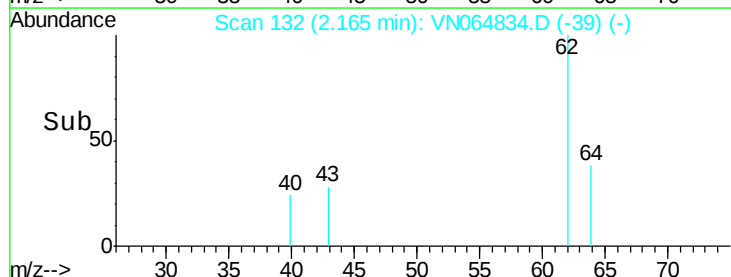
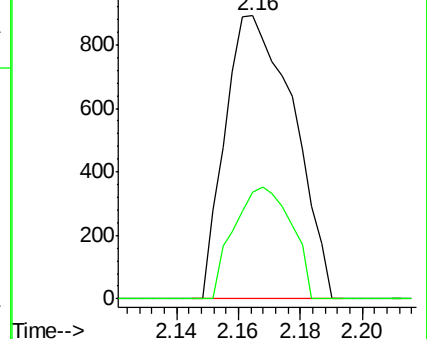
62 100

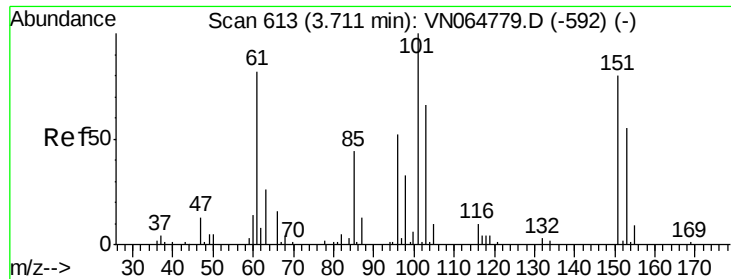
64 37.9 26.5 39.7



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.760 ug/l

RT: 3.71 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

48BR-20201118

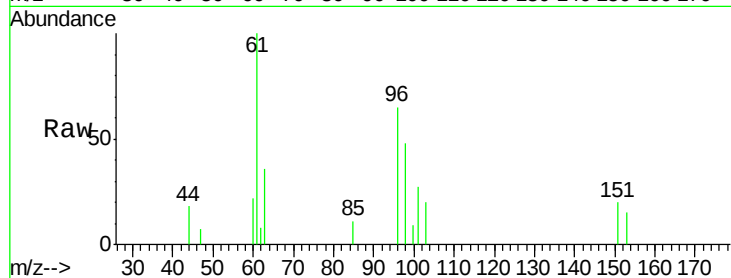
Tot Ion:101 Resp: 2687

Ion Ratio Lower Upper

101 100

85 28.6 34.4 51.6#

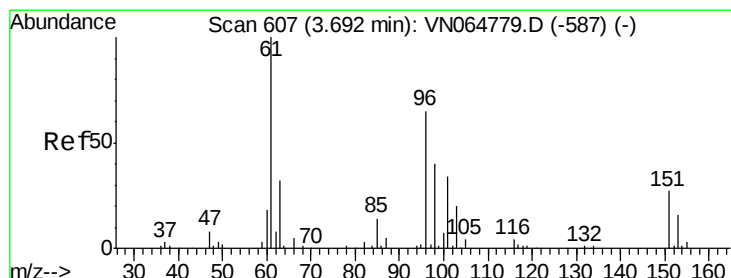
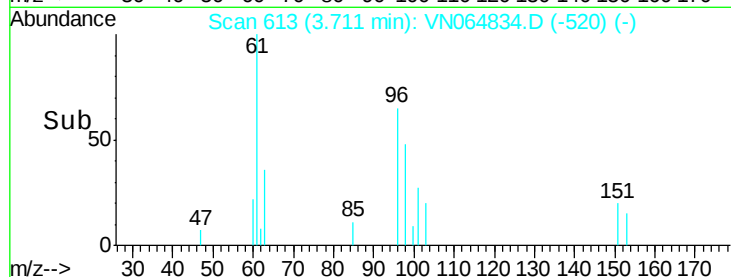
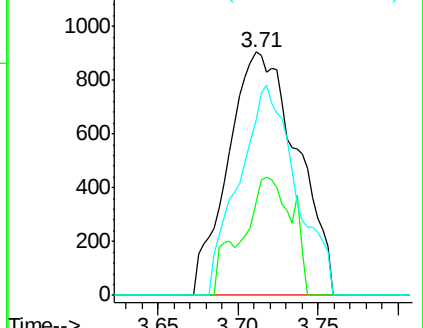
151 71.1 64.0 96.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 5.950 ug/l

RT: 3.69 min Scan# 607

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

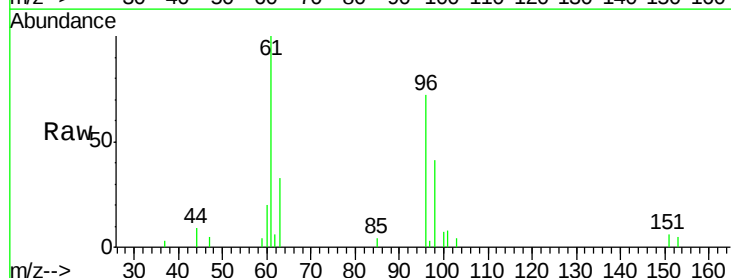
Tgt Ion: 96 Resp: 9047

Ion Ratio Lower Upper

96 100

61 138.6 123.4 185.2

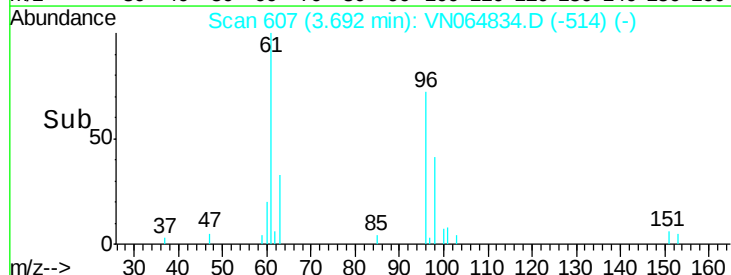
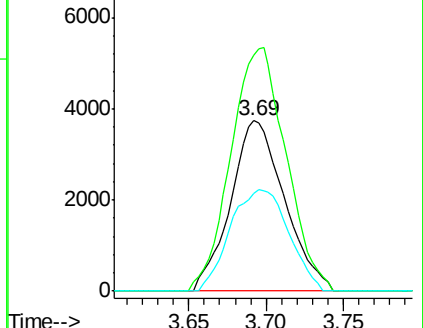
98 57.3 49.8 74.8

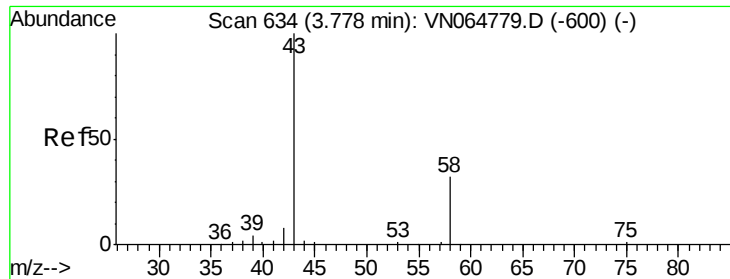


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 0.738 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

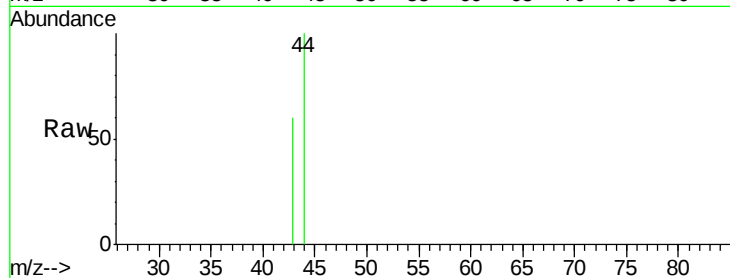
48BR-20201118

Tot Ion: 43 Resp: 442

Ion Ratio Lower Upper

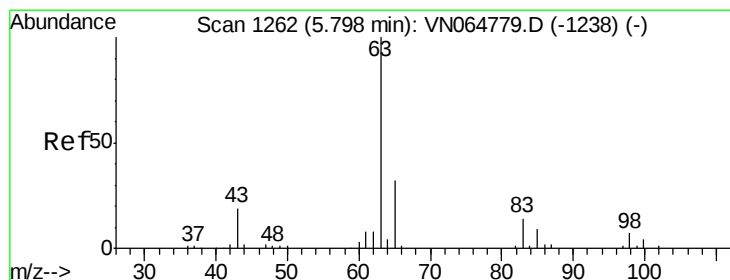
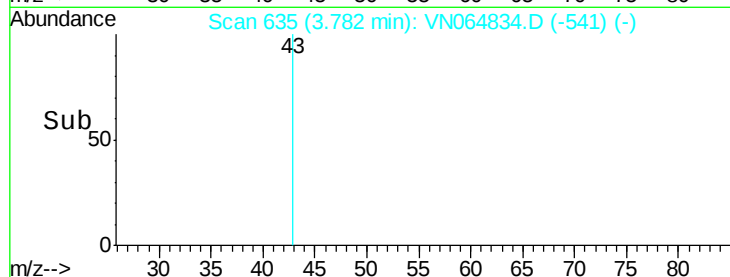
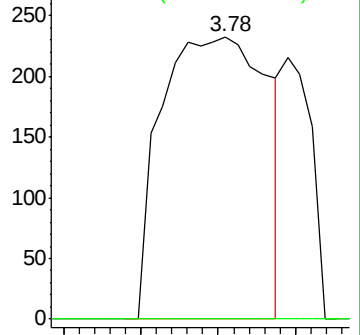
43 100

58 0.0 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#24

1,1-Dichloroethane

Concen: 1.101 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

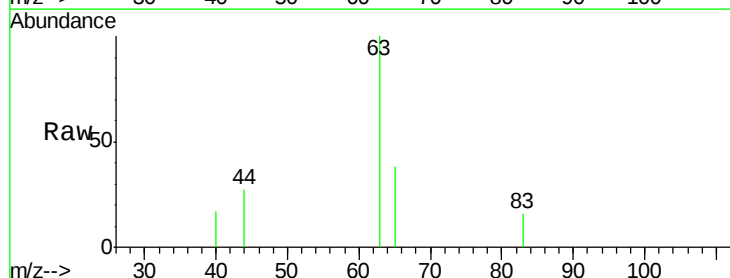
Tgt Ion: 63 Resp: 3303

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.5#

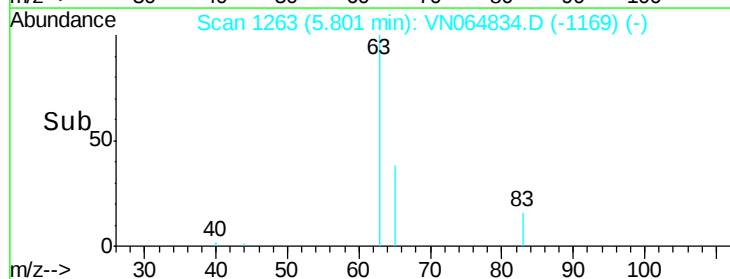
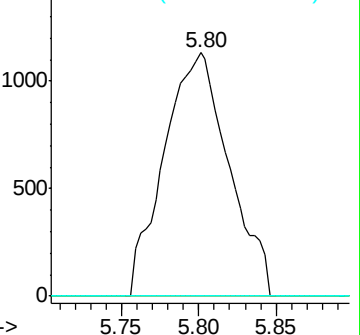
100 0.0 2.3 6.8#

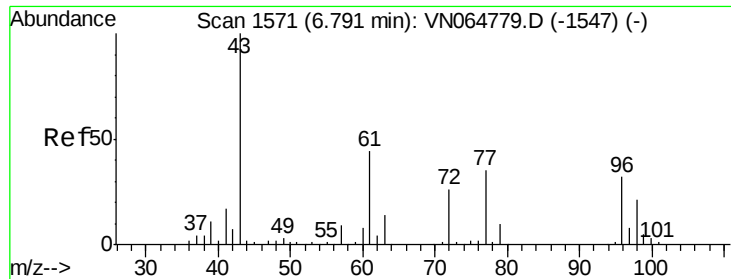


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

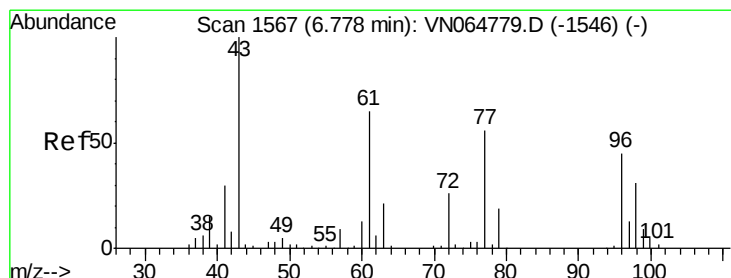
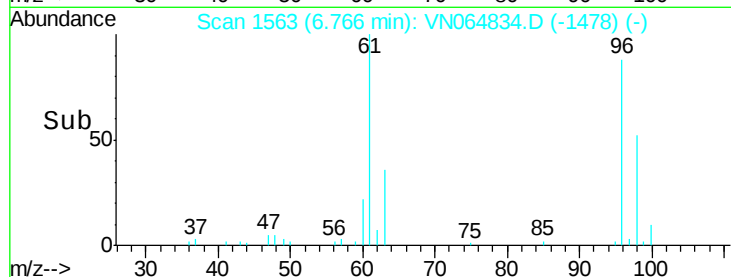
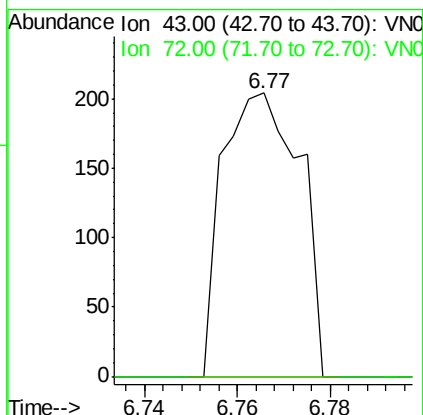
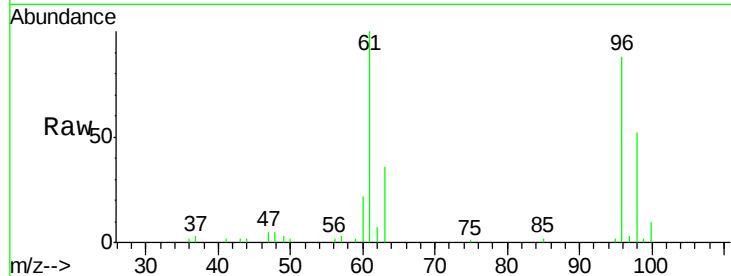




#25
2-Butanone
Concen: 0.244 ug/l
RT: 6.77 min Scan# 1563
Delta R.T. -0.03 min
Lab File: VN064834.D
Acq: 25 Nov 2020 1:30

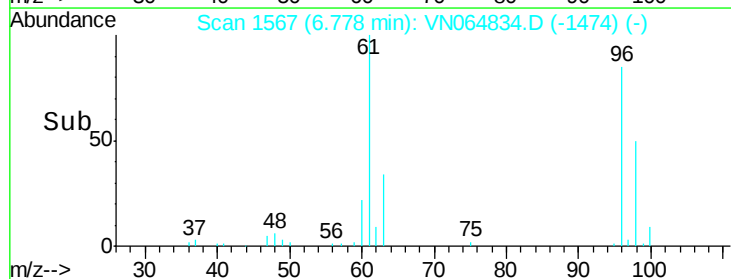
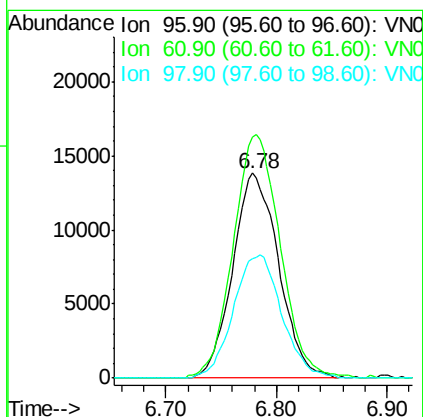
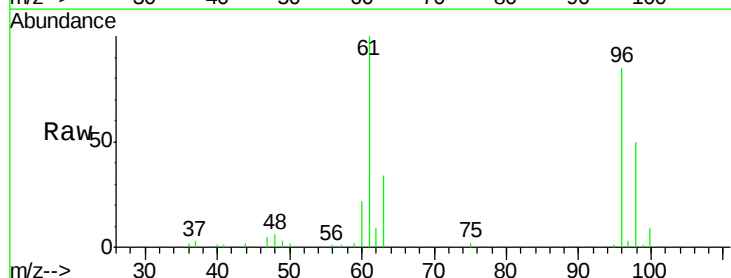
Instrument :
MSVOA_N
ClientSampleId :
48BR-20201118

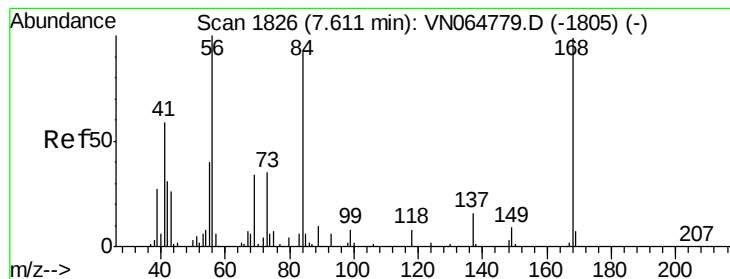
Tot Ion: 43 Resp: 237
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#27
cis-1,2-Dichloroethene
Concen: 21.027 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN064834.D
Acq: 25 Nov 2020 1:30

Tgt Ion: 96 Resp: 39951
Ion Ratio Lower Upper
96 100
61 121.7 0.0 285.8
98 63.1 0.0 130.6





#31

Cyclohexane

Concen: 1.123 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

48BR-20201118

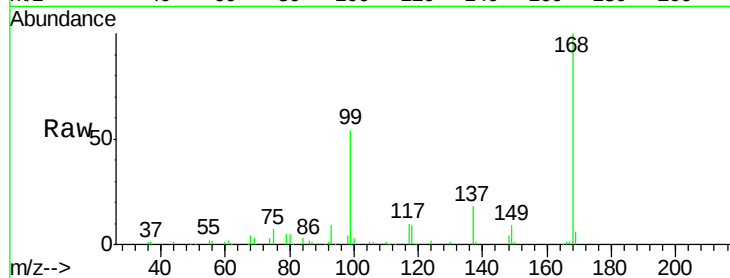
Tot Ion: 56 Resp: 2852

Ion Ratio Lower Upper

56 100

69 144.7 27.5 41.3#

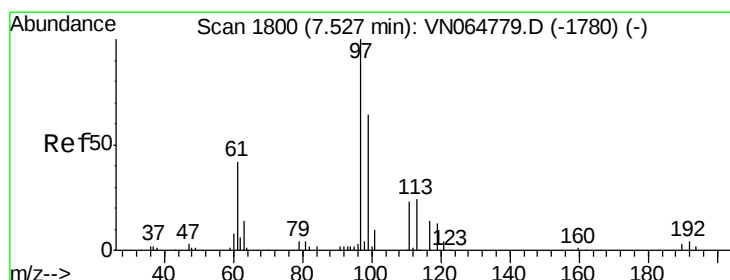
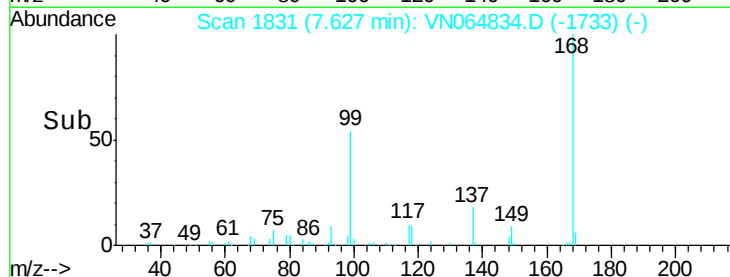
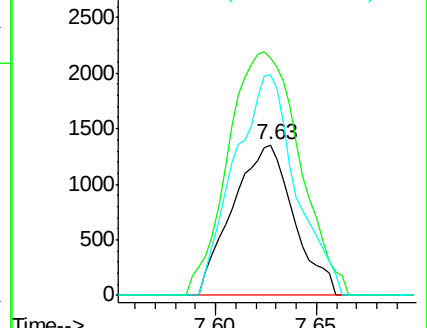
84 147.1 73.9 110.9#



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



#32

1,1,1-Trichloroethane

Concen: 0.262 ug/l

RT: 7.53 min Scan# 1802

Delta R.T. 0.01 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

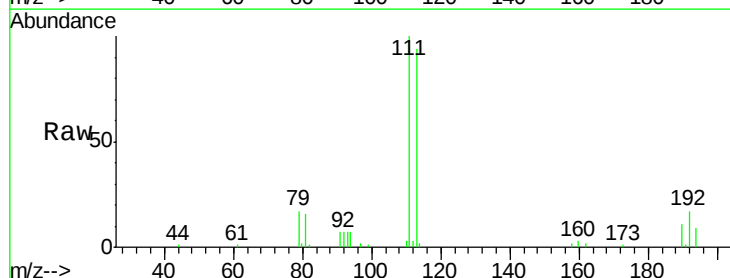
Tgt Ion: 97 Resp: 697

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

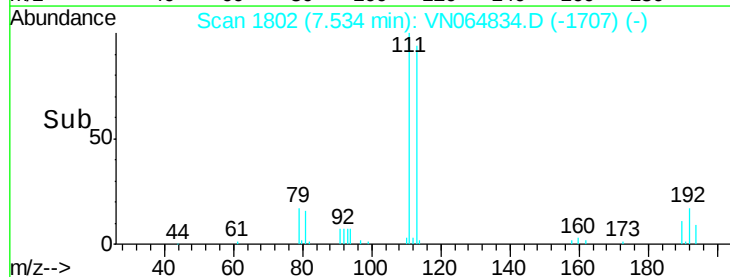
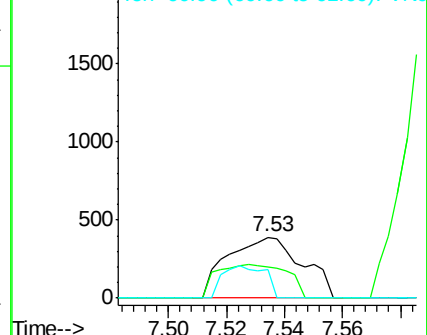
61 29.8 33.9 50.9#

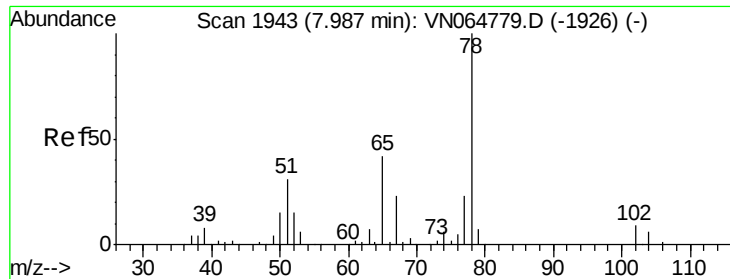


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.451 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

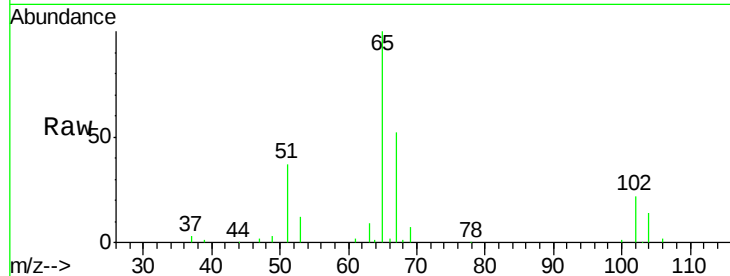
48BR-20201118

Tot Ion: 65 Resp: 97436

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.2

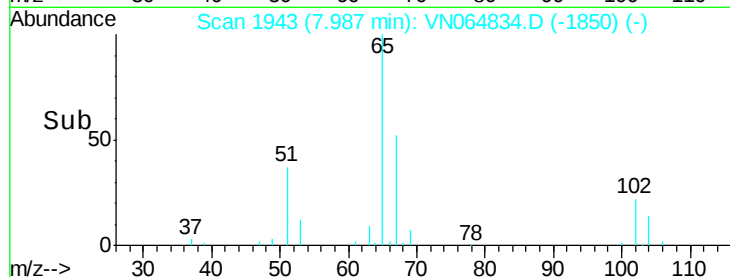


Abundance Ion 64.90 (64.60 to 65.60): VN064834.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064834.D (-1850) (-)

7.99

Time-->



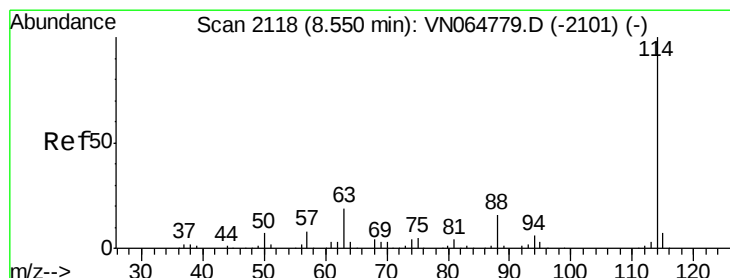
Abundance

Ion 64.90 (64.60 to 65.60): VN064834.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064834.D (-1850) (-)

7.99

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

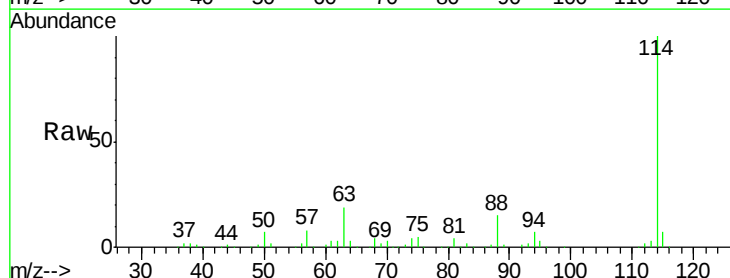
Tgt Ion: 114 Resp: 273975

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

88 15.5 0.0 32.6



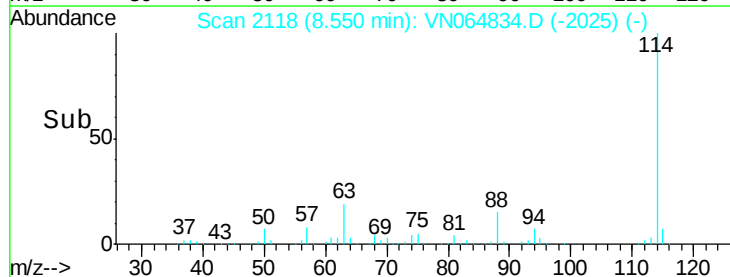
Abundance Ion 113.90 (113.60 to 114.60): VN064834.D (-2025) (-)

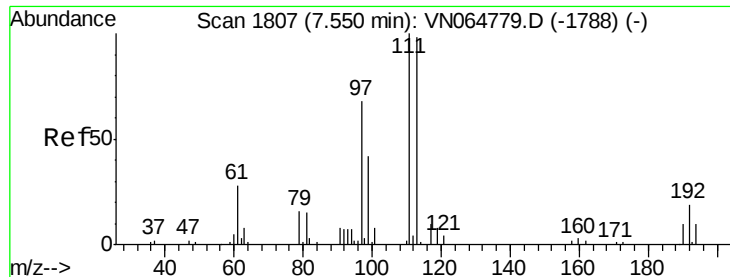
Ion 63.00 (62.70 to 63.70): VN064834.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN064834.D (-2025) (-)

8.55

Time-->

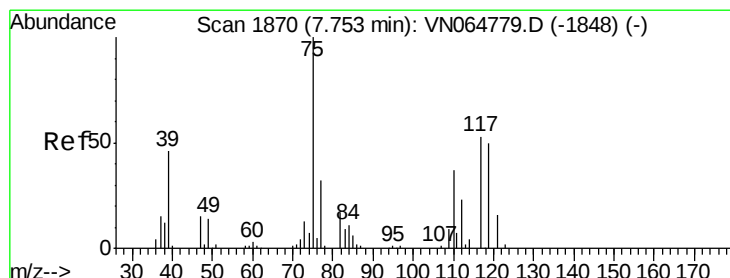
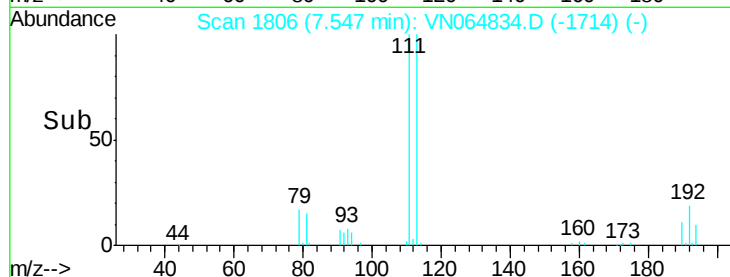
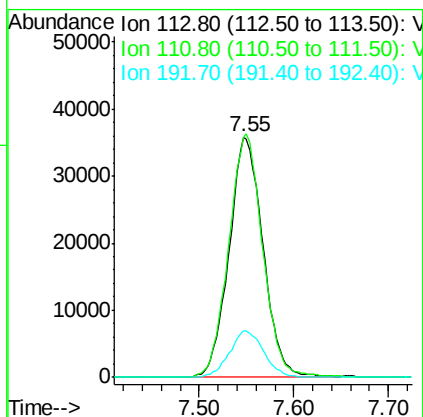
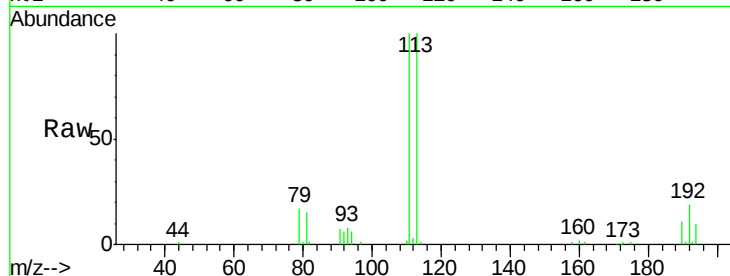




#35
 Dibromofluoromethane
 Concen: 54.497 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064834.D
 Acq: 25 Nov 2020 1:30

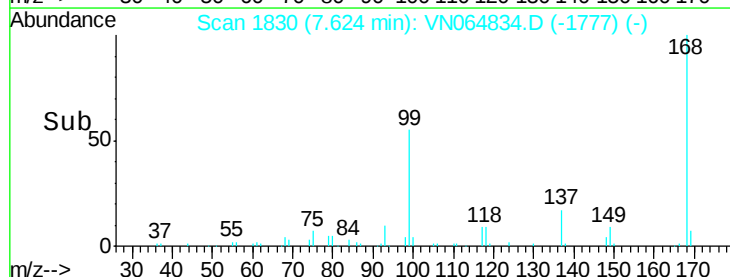
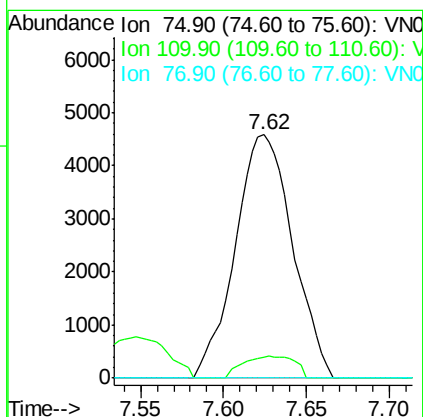
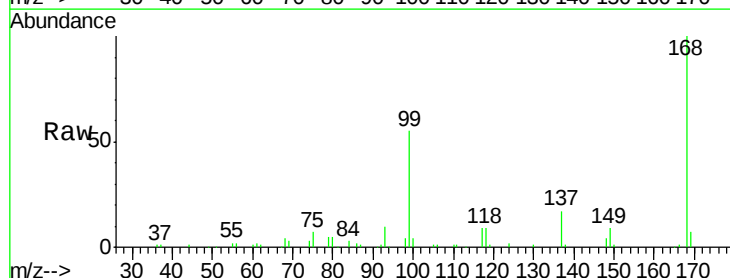
Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20201118

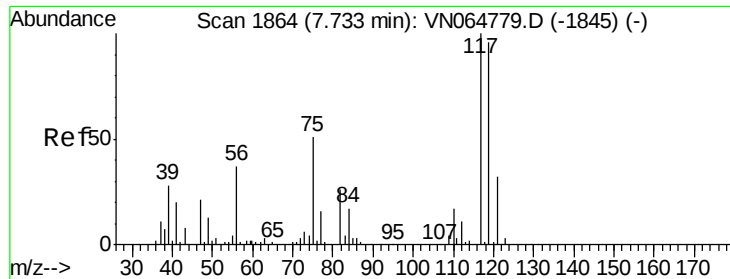
Tot Ion:113 Resp: 89341
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.6 122.4
 192 19.5 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.349 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064834.D
 Acq: 25 Nov 2020 1:30

Tgt Ion: 75 Resp: 11044
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.8 53.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.380 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :
MSVOA_N

ClientSampleId :
48BR-20201118

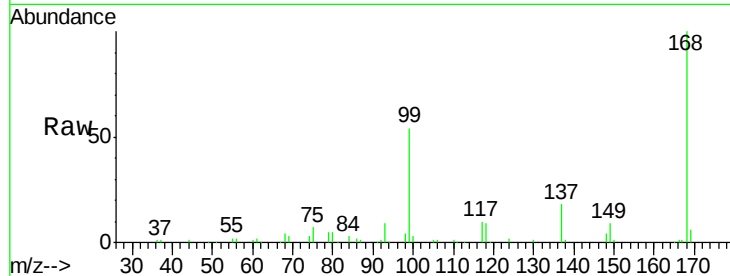
Tot Ion:117 Resp: 14215

Ion Ratio Lower Upper

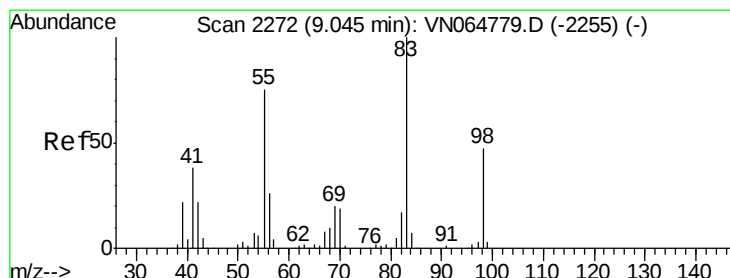
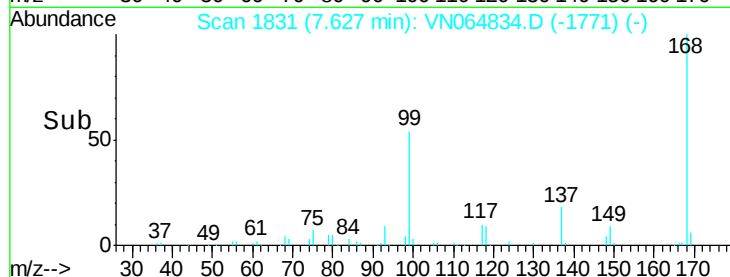
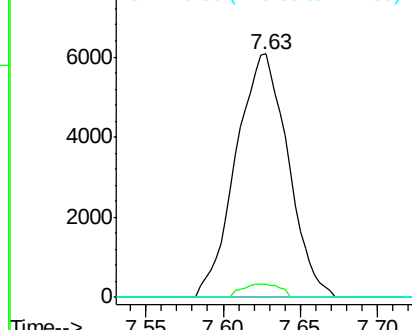
117 100

119 5.2 76.7 115.1#

121 0.0 25.4 38.2#



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



#39

Methylcyclohexane

Concen: 4.963 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

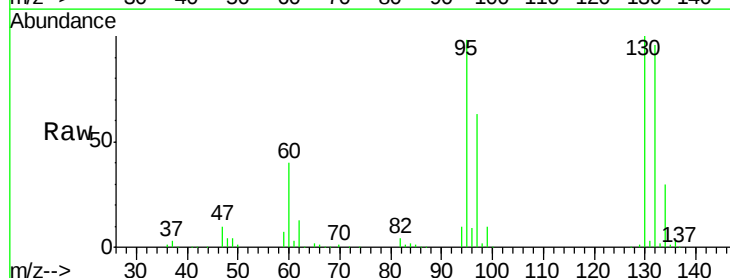
Tgt Ion: 83 Resp: 13568

Ion Ratio Lower Upper

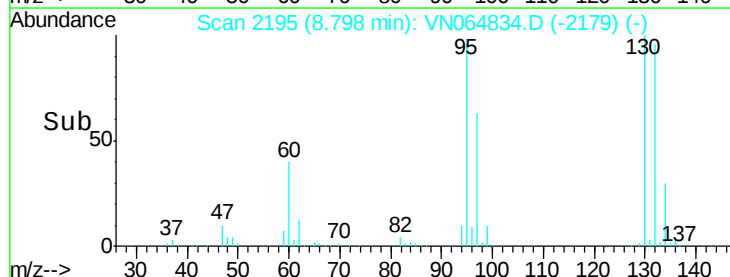
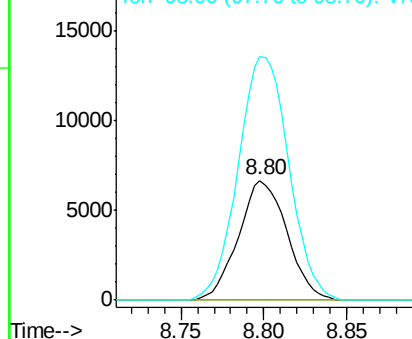
83 100

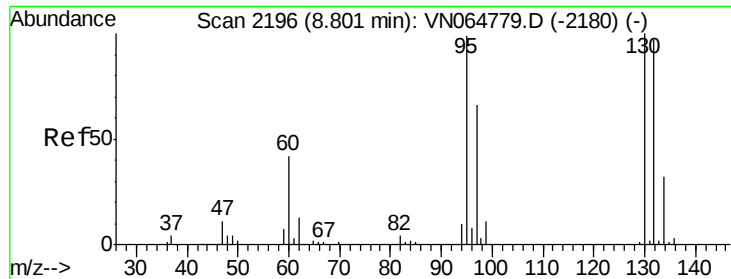
55 0.0 60.2 90.2#

98 203.8 37.4 56.2#



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 508.914 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

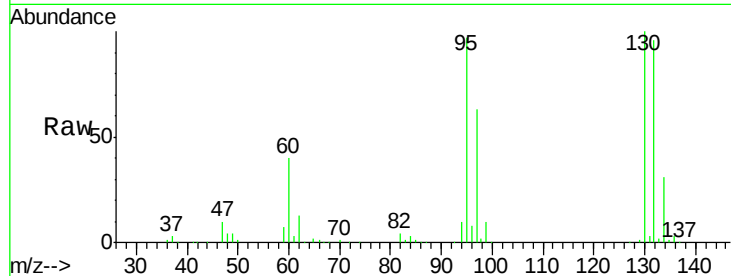
48BR-20201118

Tot Ion:130 Resp: 1168492

Ion Ratio Lower Upper

130 100

95 96.9 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.80

600000

500000

400000

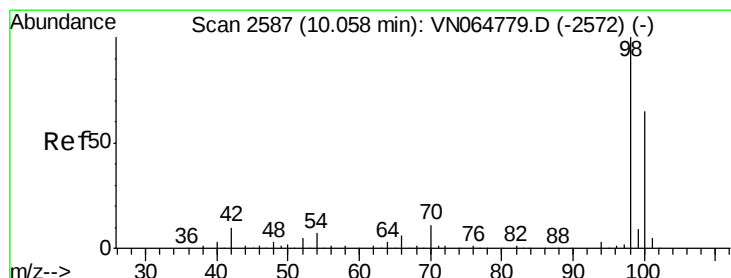
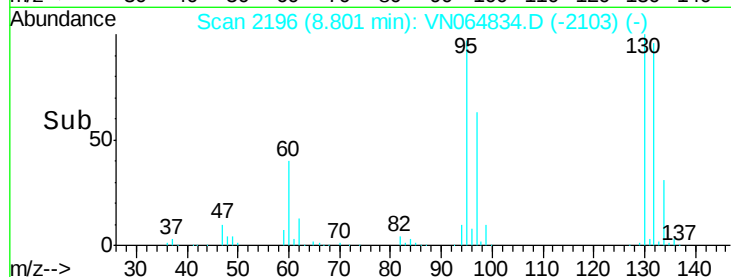
300000

200000

100000

0

Time-->



#50

Toluene-d8

Concen: 51.602 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064834.D

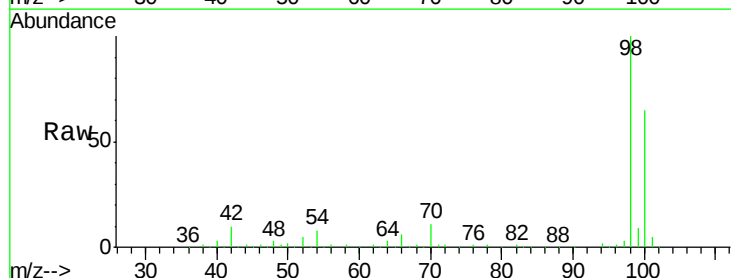
Acq: 25 Nov 2020 1:30

Tgt Ion: 98 Resp: 345648

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.06

200000

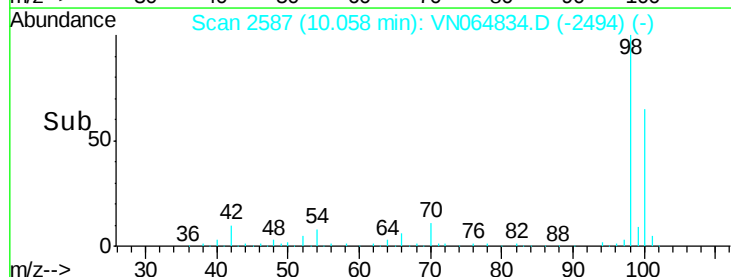
150000

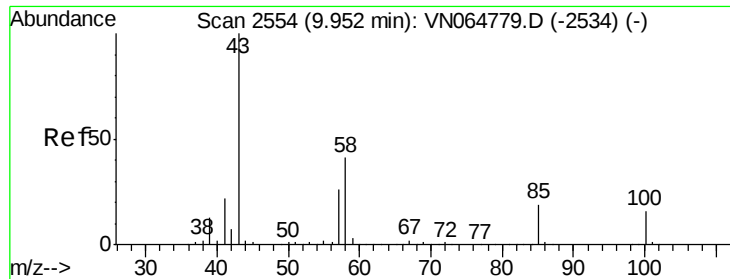
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.630 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.11 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

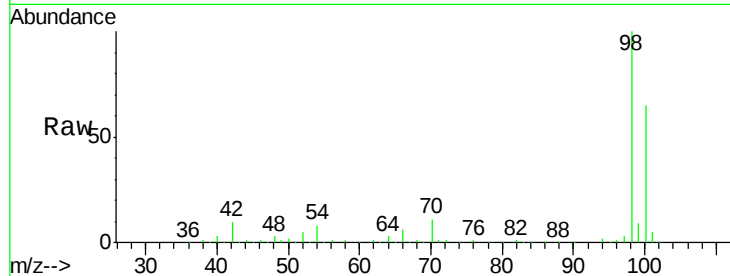
48BR-20201118

Tot Ion: 43 Resp: 1488

Ion Ratio Lower Upper

43 100

58 173.1 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

1500

1000

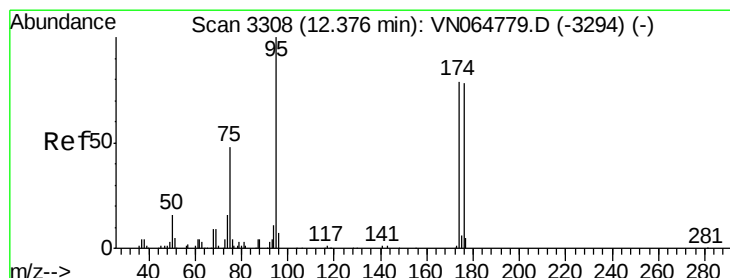
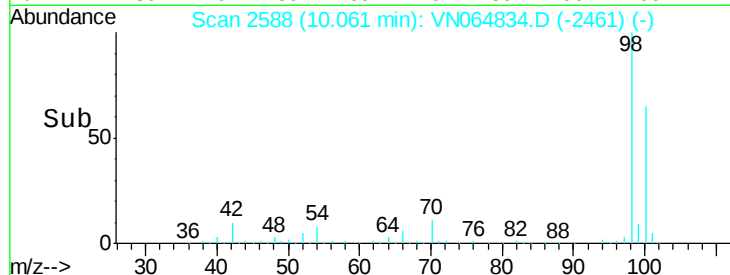
500

0

10.05

10.10

Time-->



#62

4-Bromofluorobenzene

Concen: 55.697 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

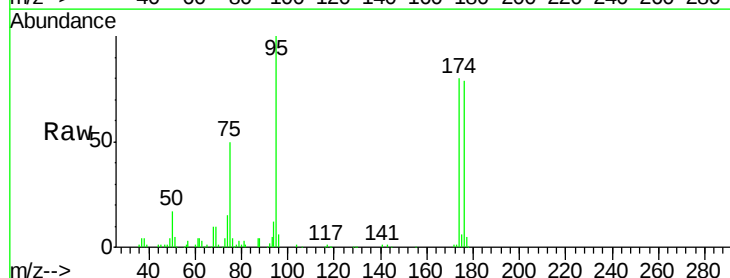
Tgt Ion: 95 Resp: 133517

Ion Ratio Lower Upper

95 100

174 81.2 0.0 160.4

176 78.6 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN064779.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN064779.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN064779.D (-3294) (-)

100000

80000

60000

40000

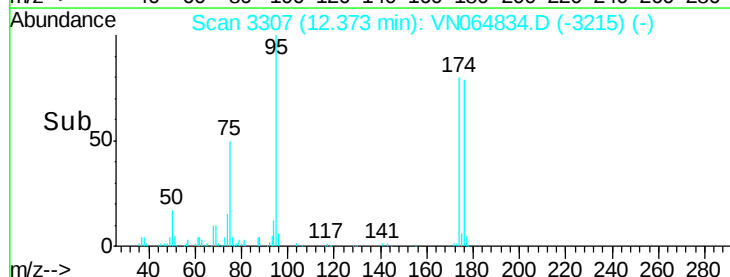
20000

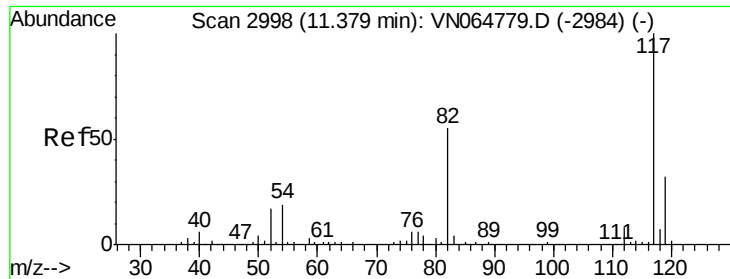
0

12.30

12.40

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

48BR-20201118

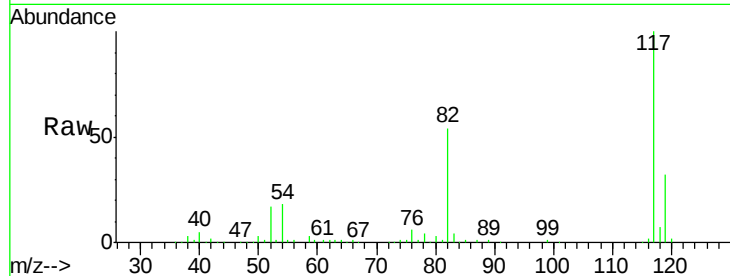
Tot Ion:117 Resp: 285566

Ion Ratio Lower Upper

117 100

82 53.9 44.2 66.2

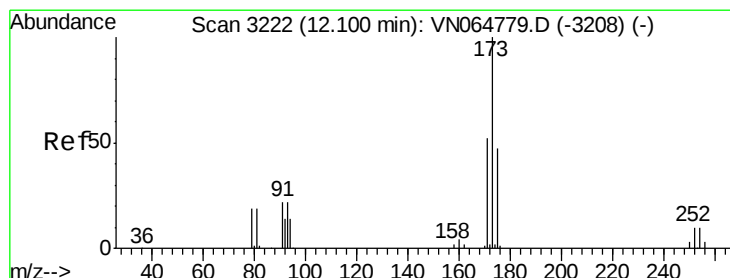
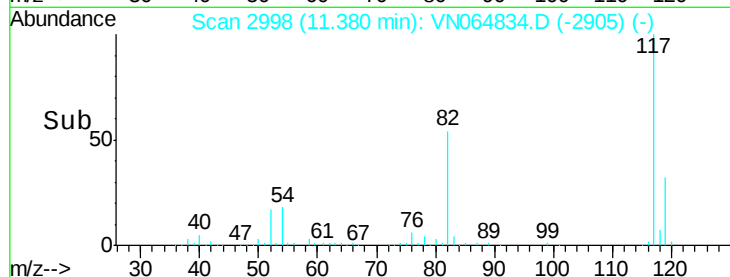
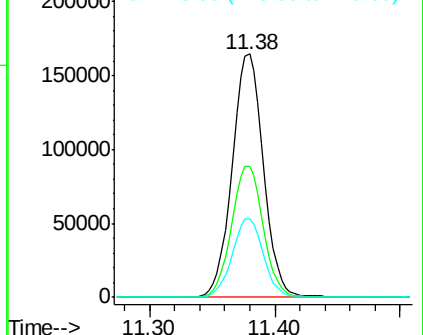
119 32.5 25.8 38.6



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: 0.503 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

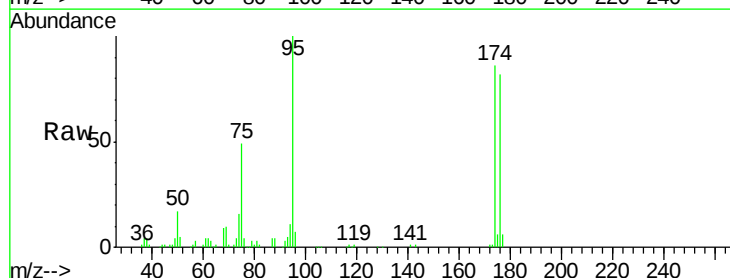
Tgt Ion:173 Resp: 906

Ion Ratio Lower Upper

173 100

175 753.2 24.3 72.8#

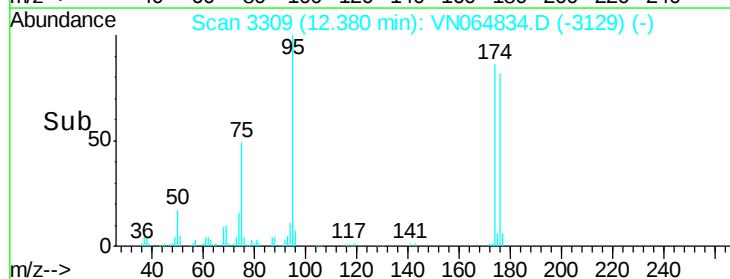
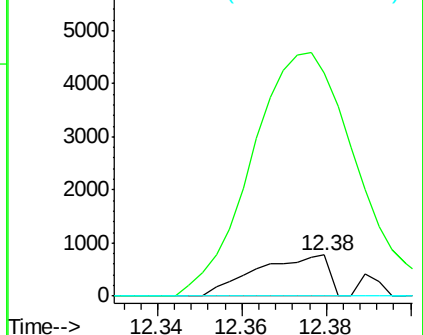
254 0.0 0.0 0.0

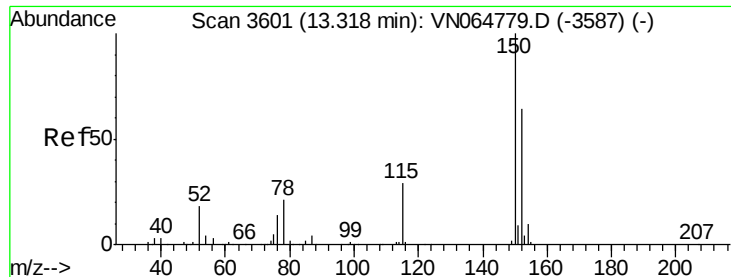


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

48BR-20201118

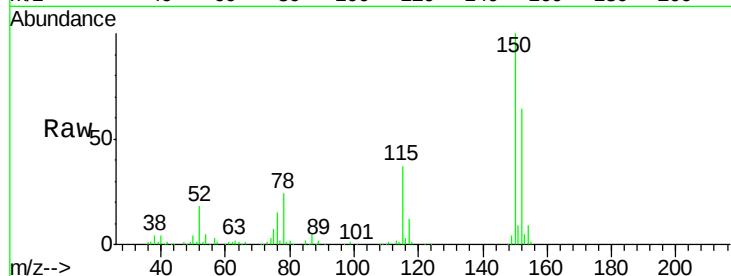
Tot Ion:152 Resp: 131981

Ion Ratio Lower Upper

152 100

115 57.8 29.7 89.1

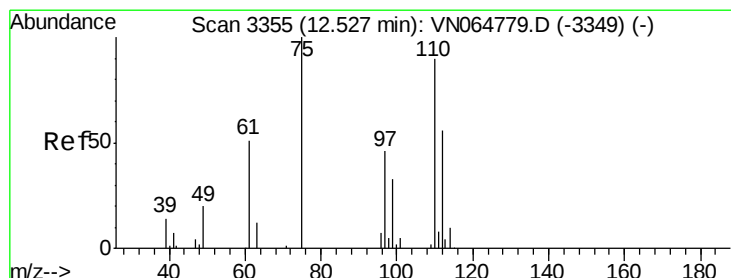
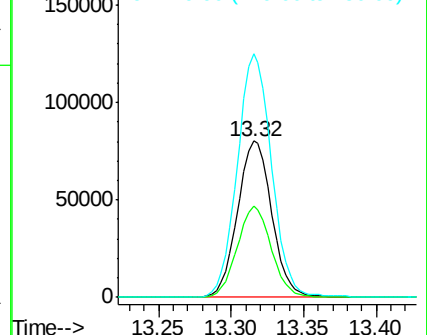
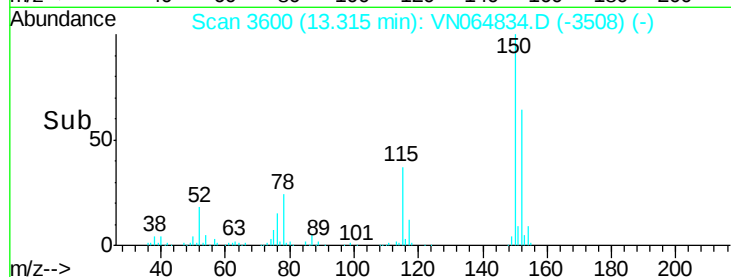
150 155.9 0.0 350.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.809 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064834.D

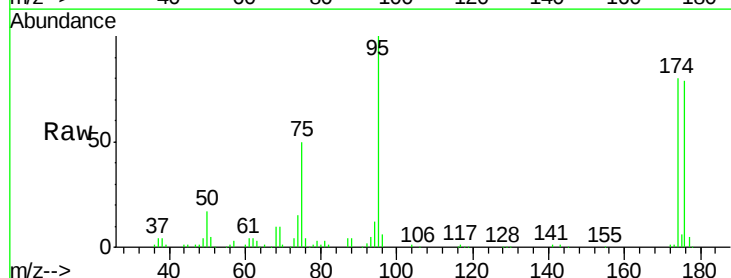
Acq: 25 Nov 2020 1:30

Tgt Ion: 75 Resp: 64830

Ion Ratio Lower Upper

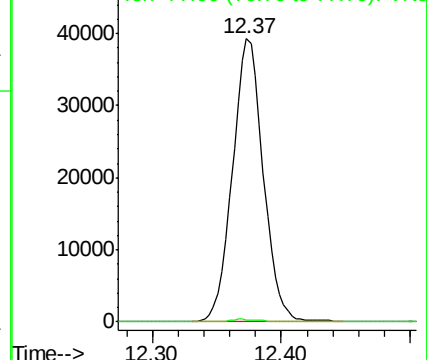
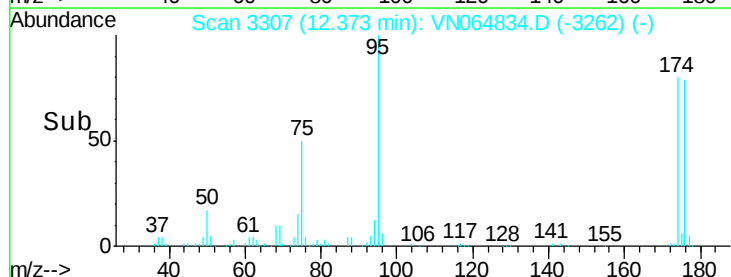
75 100

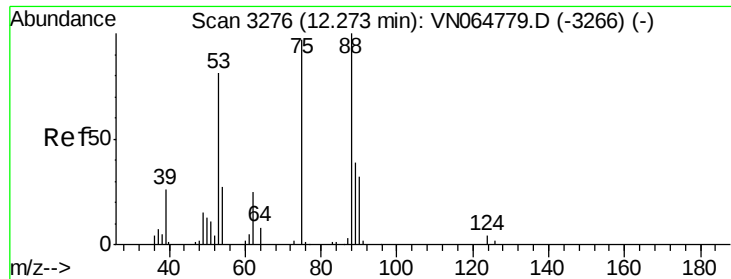
77 0.8 0.0 0.0#



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: 62.514 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064834.D

Acq: 25 Nov 2020 1:30

Instrument :

MSVOA_N

ClientSampleId :

48BR-20201118

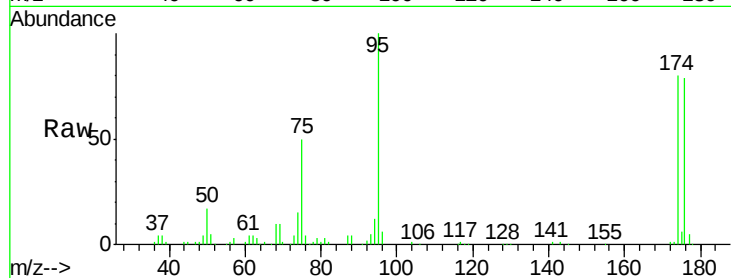
Tot Ion: 75 Resp: 64830

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



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

