

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061849.D
 Acq On : 17 Jun 2020 15:27
 Operator : JC/MD
 Sample : L2989-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D2-20200610

Quant Time: Jun 18 03:54:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	136729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	246997	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	239672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	93961	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	89336	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
35) Dibromofluoromethane	7.55	113	79130	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.06	98	307496	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.38	95	103706	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	

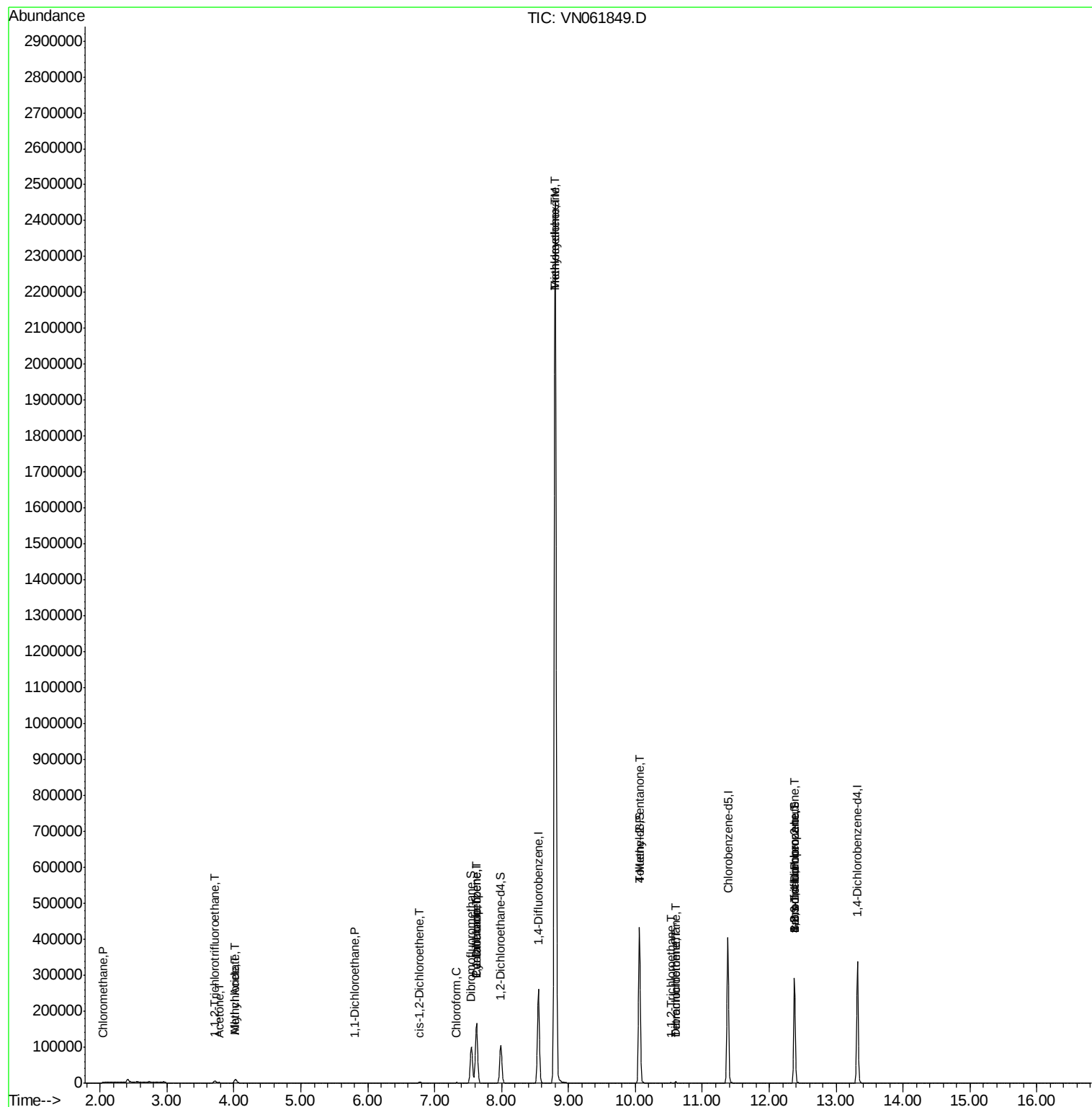
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	485	0.256	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	3632	2.620	ug/l	98
14) Allyl chloride	4.03	41	1418	0.769	ug/l #	58
16) Acetone	3.78	43	2534	4.678	ug/l #	83
18) Methyl Acetate	4.02	43	4157	2.666	ug/l #	46
24) 1,1-Dichloroethane	5.80	63	625	0.226	ug/l #	82
27) cis-1,2-Dichloroethene	6.78	96	915	0.497	ug/l	70
30) Chloroform	7.32	83	1728	0.586	ug/l	99
31) Cyclohexane	7.63	56	2581	1.068	ug/l #	8
36) 1,1-Dichloropropene	7.63	75	10440	4.634	ug/l #	49
39) Methylcyclohexane	8.80	83	10518	4.336	ug/l #	1
44) Trichloroethene	8.80	130	918302	511.293	ug/l	100
51) 4-Methyl-2-Pentanone	10.06	43	1310	0.748	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	474	0.281	ug/l #	84
60) Dibromochloromethane	10.60	129	1030	0.547	ug/l #	11
64) Tetrachloroethene	10.60	164	864	0.566	ug/l #	78
71) Bromoform	12.37	173	342	0.266	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	50895	27.590	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50895	75.250	ug/l #	14

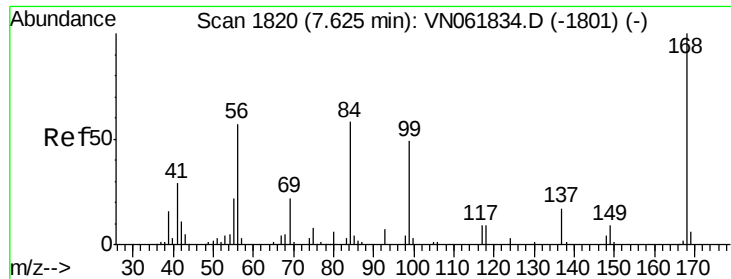
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

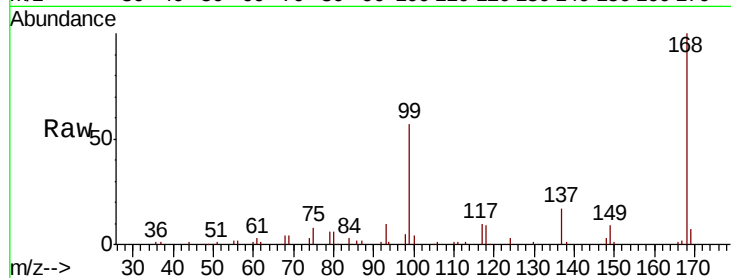
RE103D2-20200610

Tot Ion:168 Resp: 136729

Ion Ratio Lower Upper

168 100

99 56.9 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

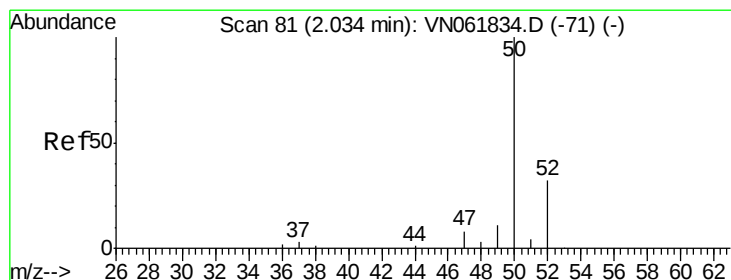
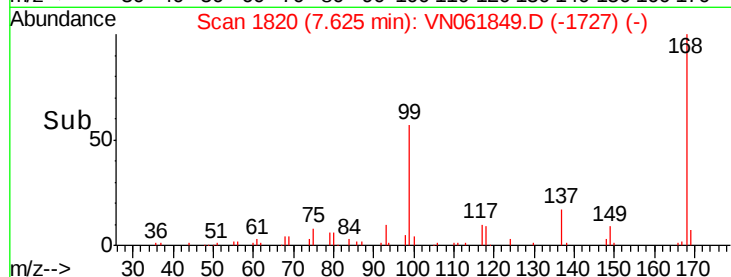
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.256 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061849.D

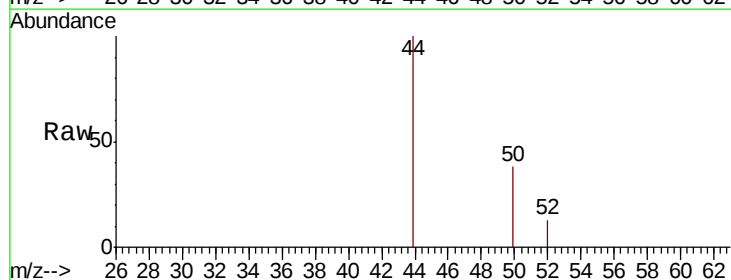
Acq: 17 Jun 2020 15:27

Tgt Ion: 50 Resp: 485

Ion Ratio Lower Upper

50 100

52 35.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

500

400

300

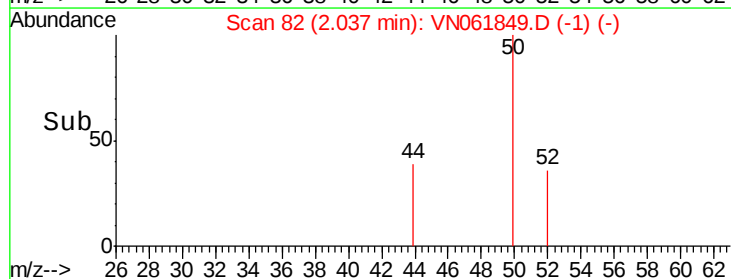
200

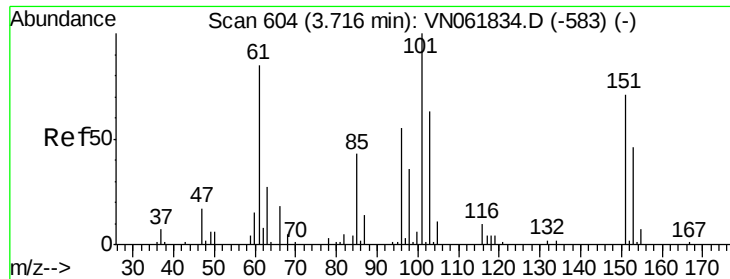
100

0

2.02 2.04 2.06

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.620 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

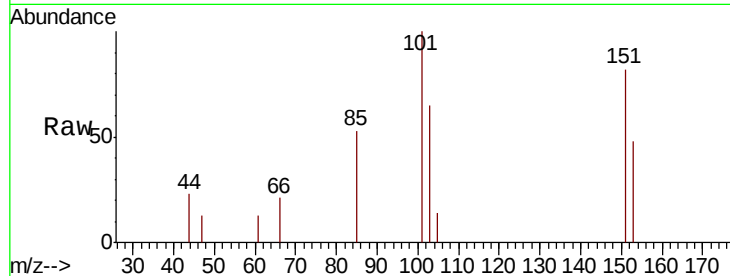
Tot Ion:101 Resp: 3632

Ion Ratio Lower Upper

101 100

85 41.5 35.0 52.6

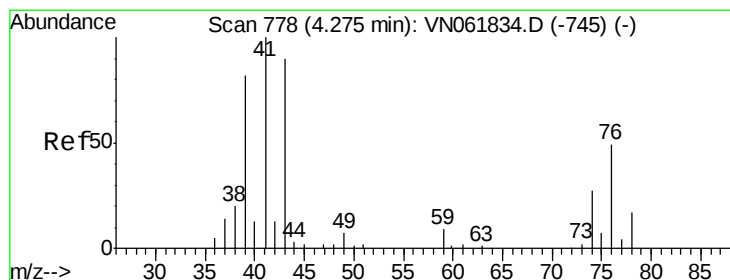
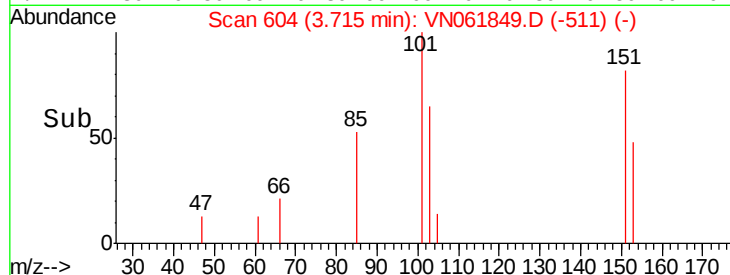
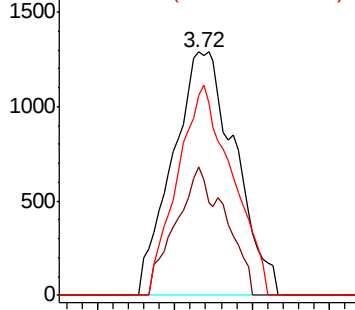
151 75.4 59.2 88.8



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



#14

Allyl chloride

Concen: 0.769 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.25 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

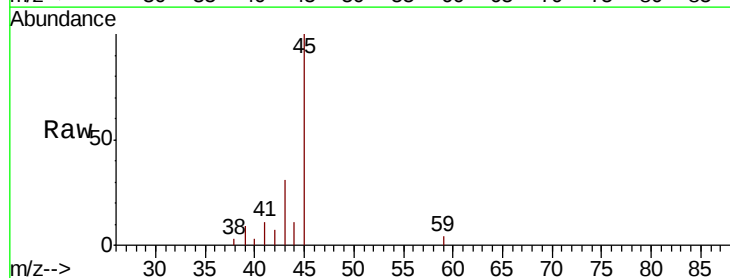
Tgt Ion: 41 Resp: 1418

Ion Ratio Lower Upper

41 100

39 44.8 60.2 90.2#

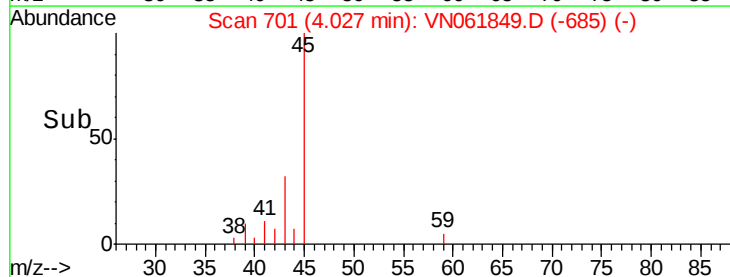
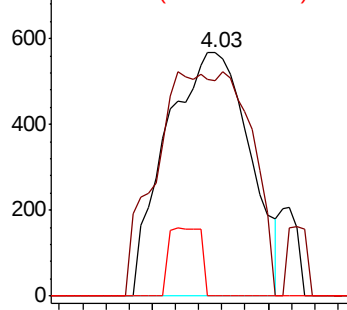
76 10.6 36.3 54.5#

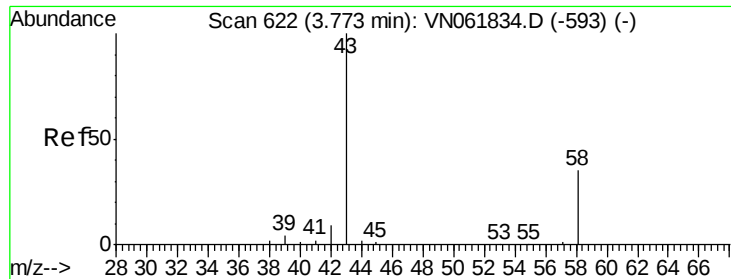


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 4.678 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

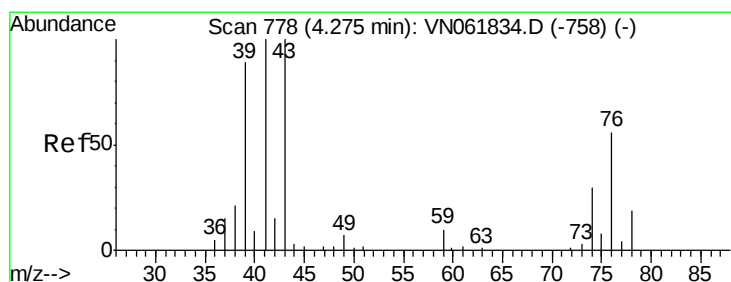
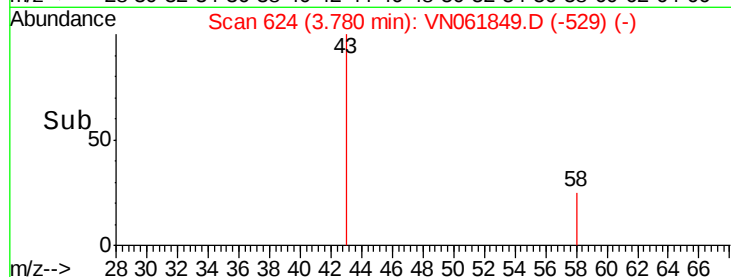
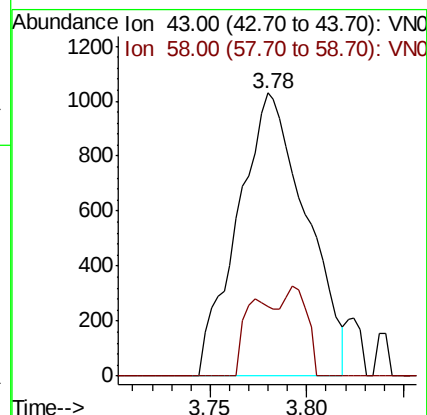
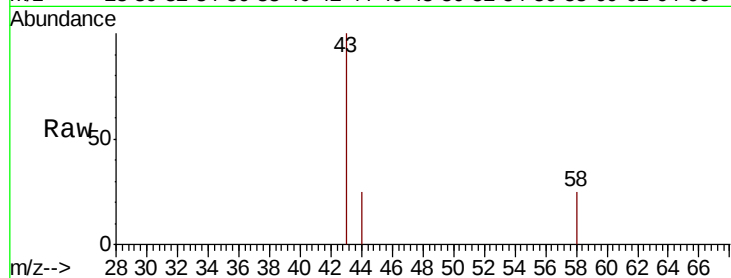
RE103D2-20200610

Tot Ion: 43 Resp: 2534

Ion Ratio Lower Upper

43 100

58 24.7 27.8 41.8#



#18

Methyl Acetate

Concen: 2.666 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061849.D

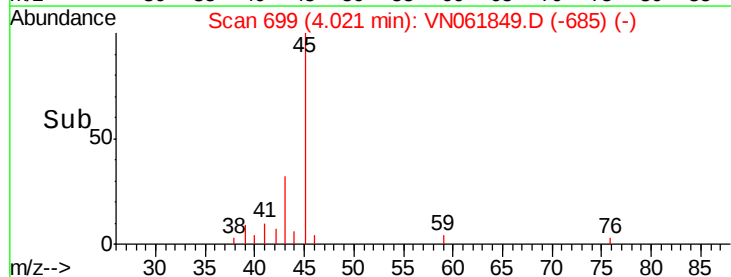
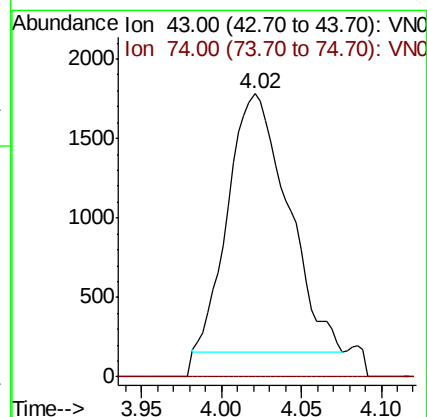
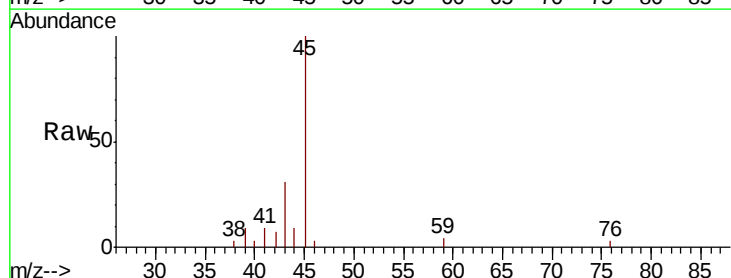
Acq: 17 Jun 2020 15:27

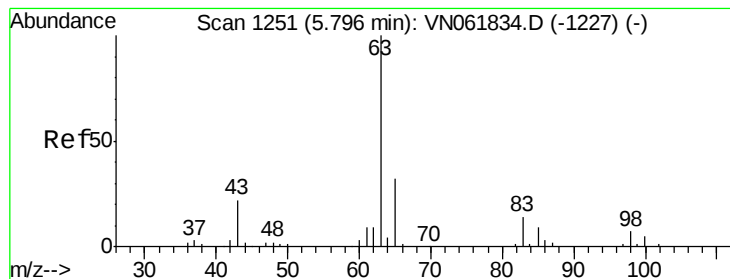
Tgt Ion: 43 Resp: 4157

Ion Ratio Lower Upper

43 100

74 0.0 23.0 34.4#





#24

1,1-Dichloroethane

Concen: 0.226 ug/l

RT: 5.80 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

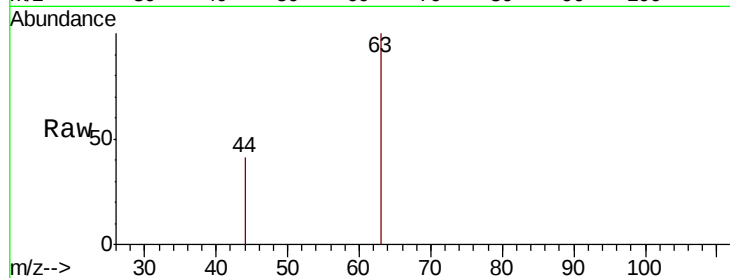
Tot Ion: 63 Resp: 625

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.4#



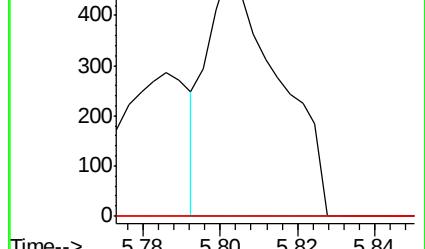
Abundance Ion 62.90 (62.60 to 63.60): VN061834.D (-1227) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1227) (-)

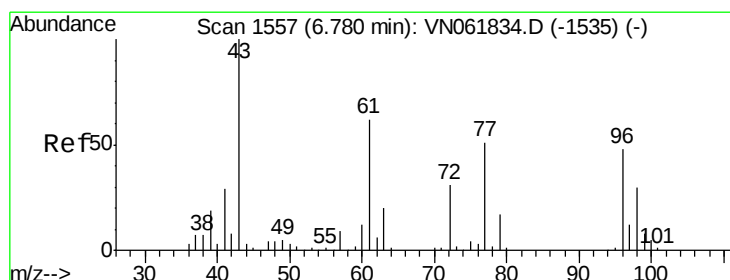
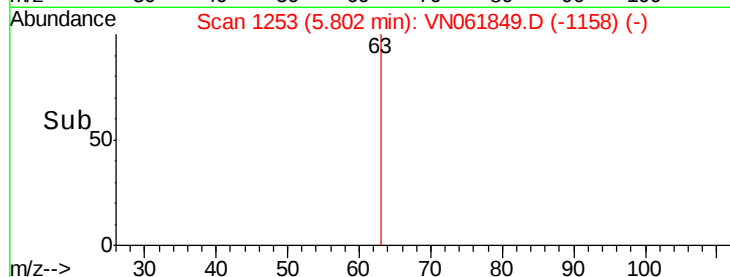
Ion 99.90 (99.60 to 100.60): VN061834.D (-1227) (-)

5.80

5.78 5.80 5.82 5.84



Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.497 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

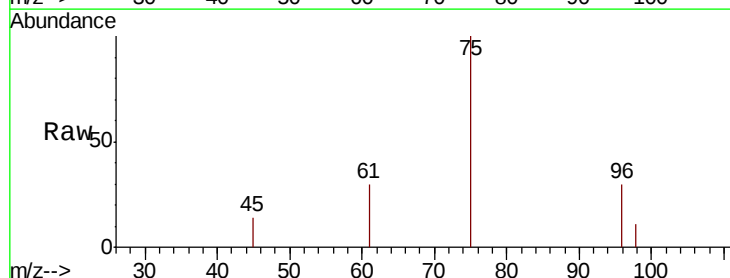
Tgt Ion: 96 Resp: 915

Ion Ratio Lower Upper

96 100

61 108.9 0.0 265.6

98 24.0 0.0 128.2



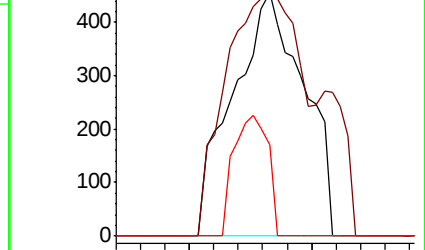
Abundance Ion 95.90 (95.60 to 96.60): VN061834.D (-1535) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-1535) (-)

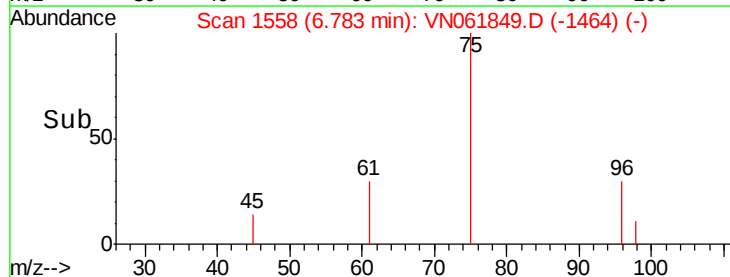
Ion 97.90 (97.60 to 98.60): VN061834.D (-1535) (-)

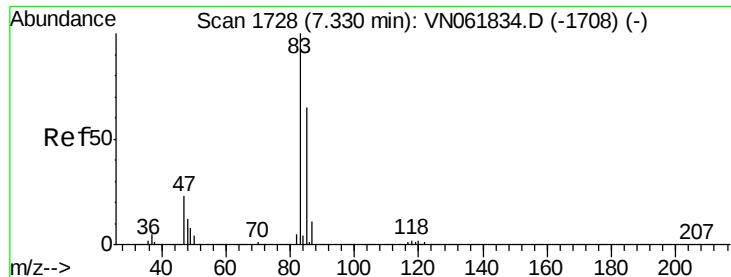
6.78

6.75 6.78 6.80 6.82



Time-->

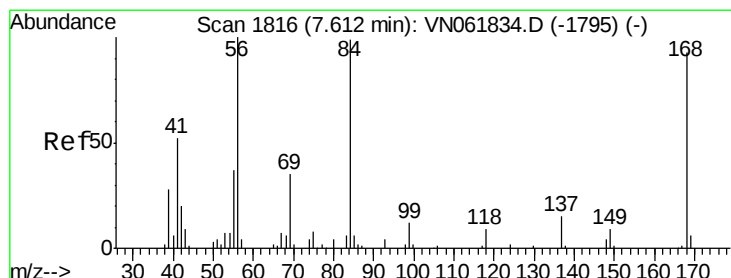
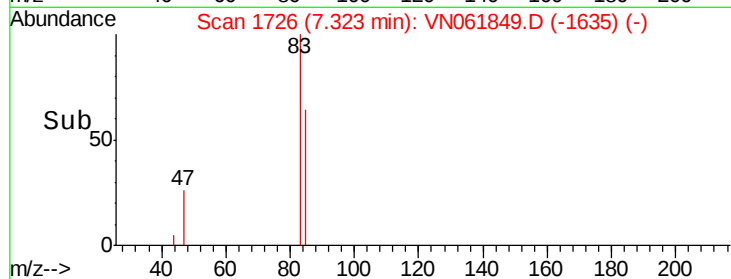
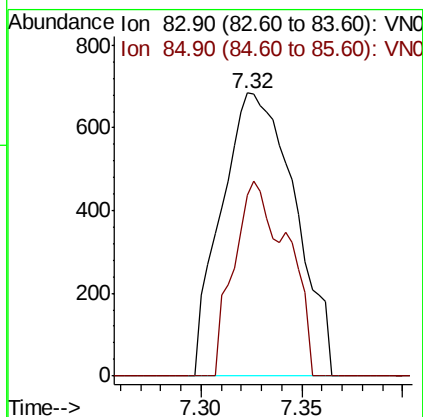
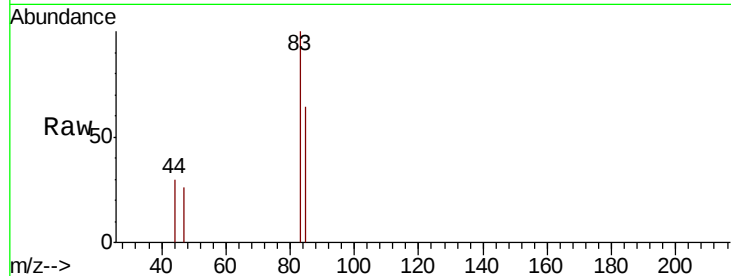




#30
Chloroform
Concen: 0.586 ug/l
RT: 7.32 min Scan# 1726
Delta R.T. -0.01 min
Lab File: VN061849.D
Acq: 17 Jun 2020 15:27

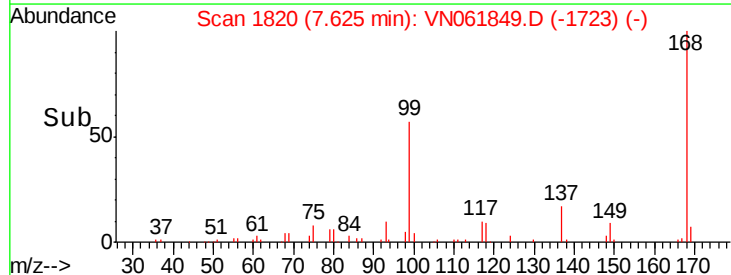
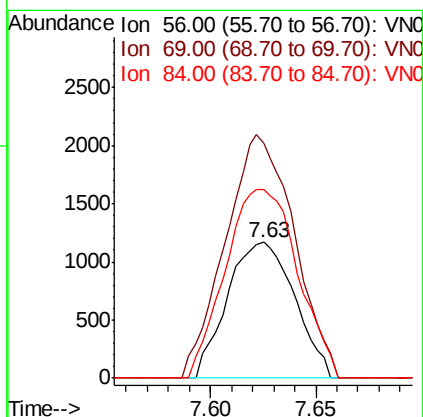
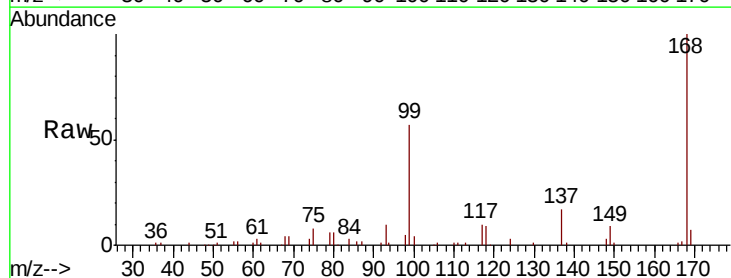
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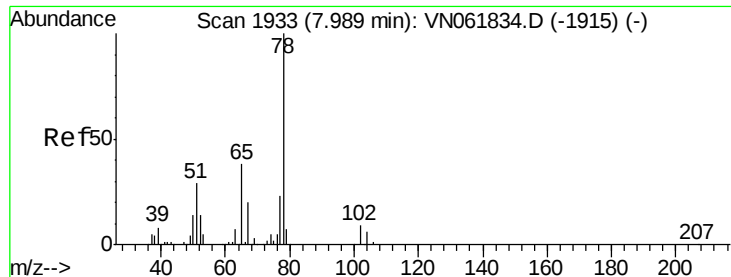
Tot Ion: 83 Resp: 1728
Ion Ratio Lower Upper
83 100
85 63.9 52.0 78.0



#31
Cyclohexane
Concen: 1.068 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061849.D
Acq: 17 Jun 2020 15:27

Tgt Ion: 56 Resp: 2581
Ion Ratio Lower Upper
56 100
69 172.4 27.7 41.5#
84 138.9 79.1 118.7#

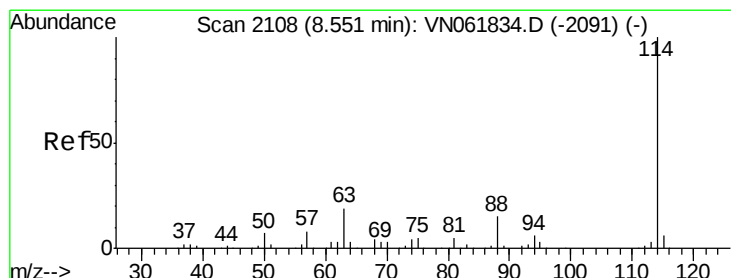
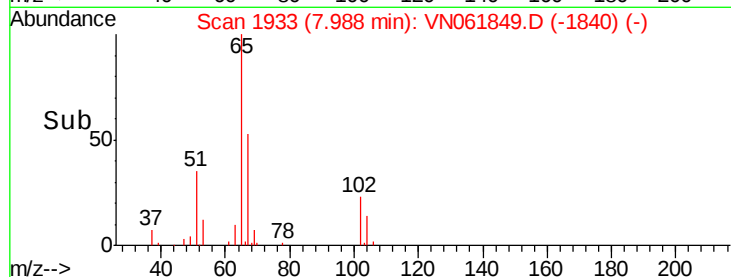
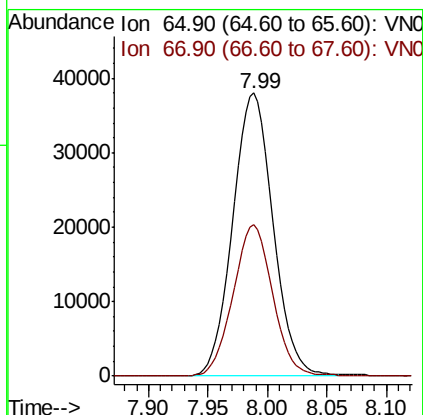
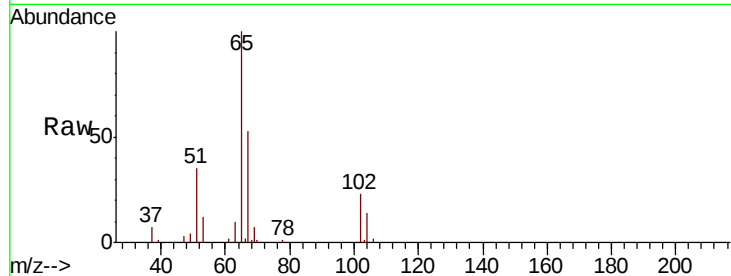




#33
 1,2-Dichloroethane-d4
 Concen: 48.718 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061849.D
 Acq: 17 Jun 2020 15:27

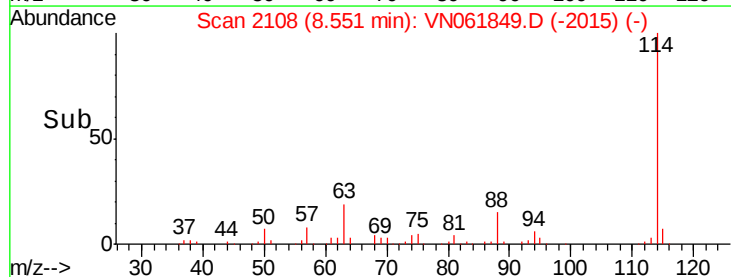
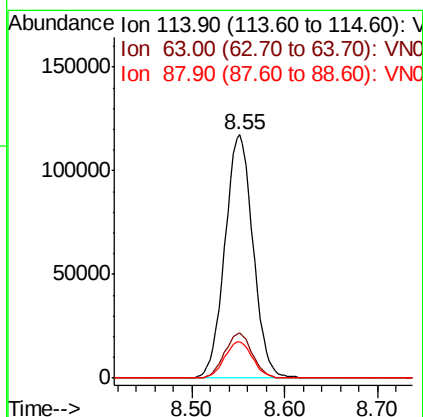
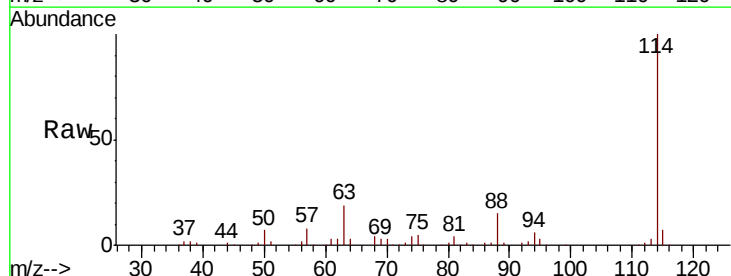
Instrument :
 MSVOA_N
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 RE103D2-20200610

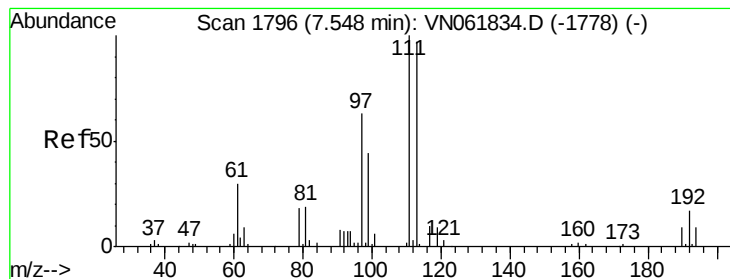
Tot Ion: 65 Resp: 89336
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061849.D
 Acq: 17 Jun 2020 15:27

Tgt Ion: 114 Resp: 246997
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 37.6
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.077 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

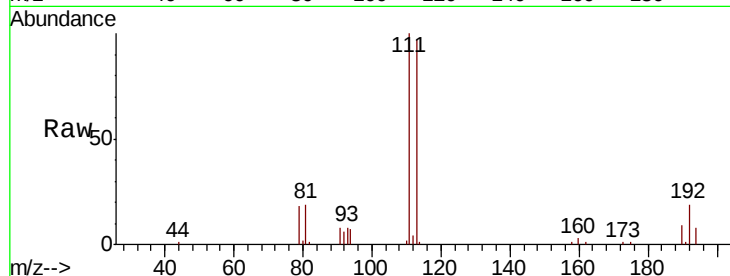
Tot Ion:113 Resp: 79130

Ion Ratio Lower Upper

113 100

111 101.7 83.7 125.5

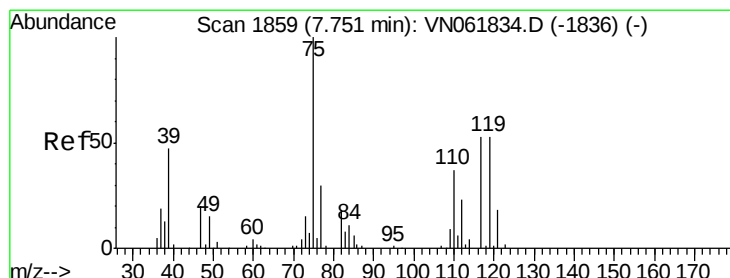
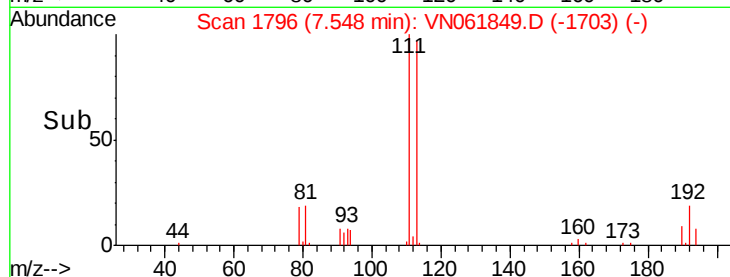
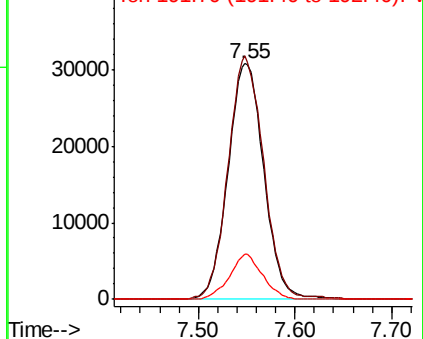
192 17.5 13.9 20.9



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: 4.634 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

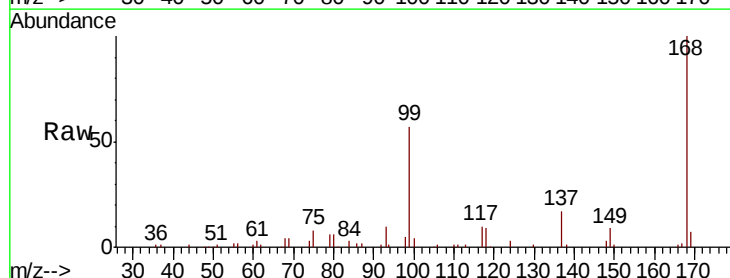
Tgt Ion: 75 Resp: 10440

Ion Ratio Lower Upper

75 100

110 8.6 18.2 54.6#

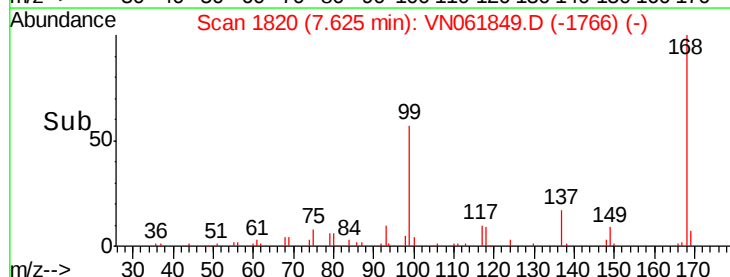
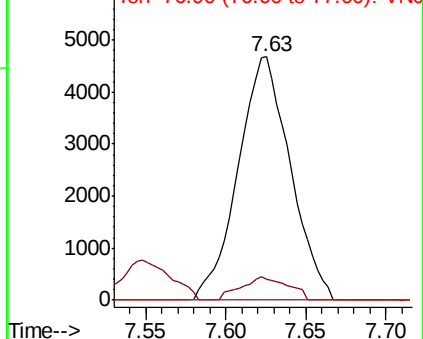
77 0.0 24.2 36.4#

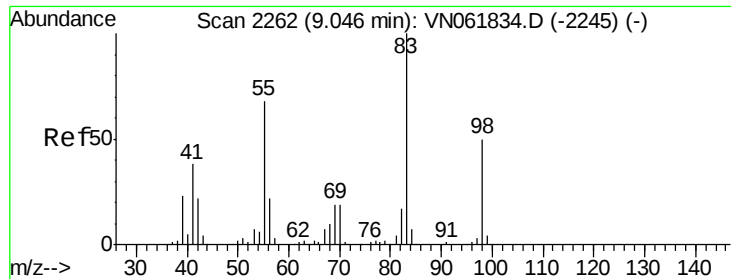


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

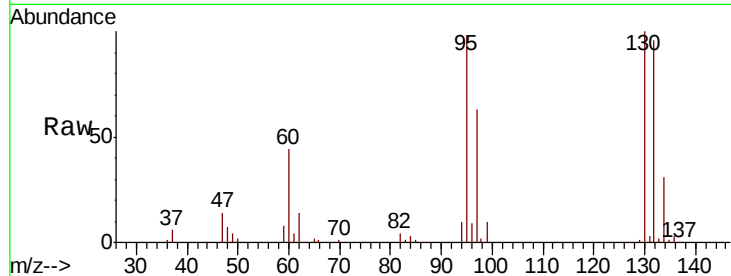




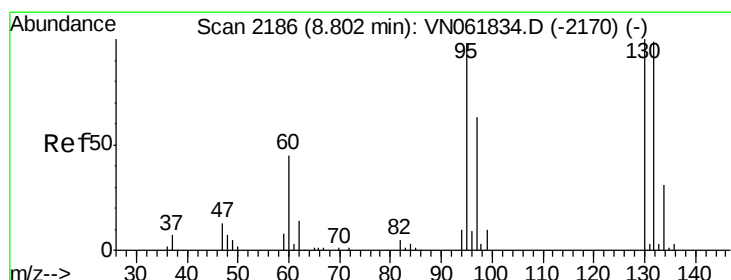
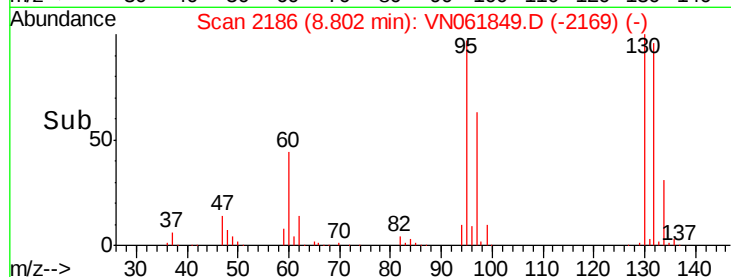
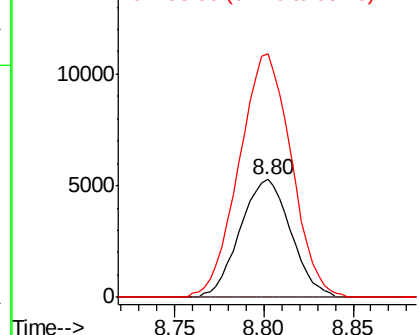
#39
Methylcyclohexane
Concen: 4.336 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061849.D
Acq: 17 Jun 2020 15:27

Instrument :
MSVOA_N
ClientSampleId :
RE103D2-20200610

Tot Ion: 83 Resp: 10518
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 203.5 39.8 59.6#

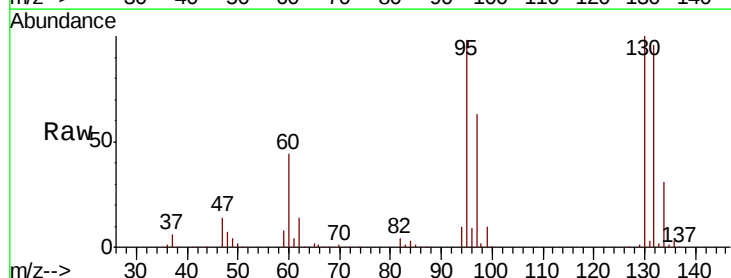


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

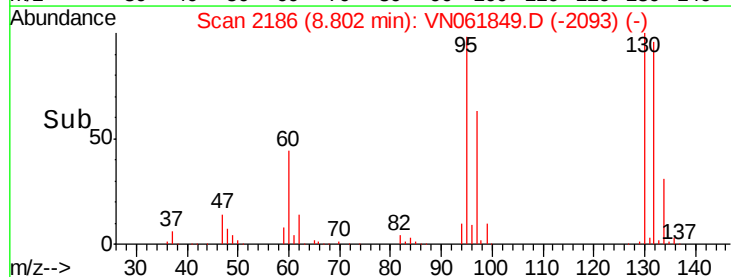
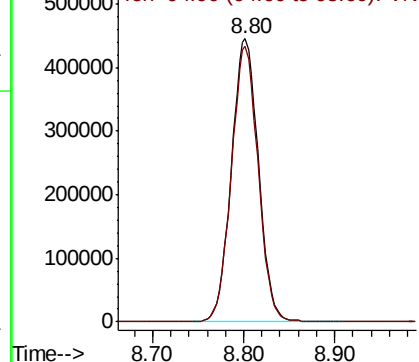


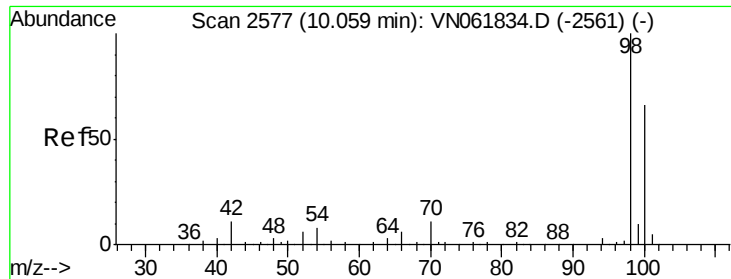
#44
Trichloroethene
Concen: 511.293 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN061849.D
Acq: 17 Jun 2020 15:27

Tgt Ion:130 Resp: 918302
Ion Ratio Lower Upper
130 100
95 97.5 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.498 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

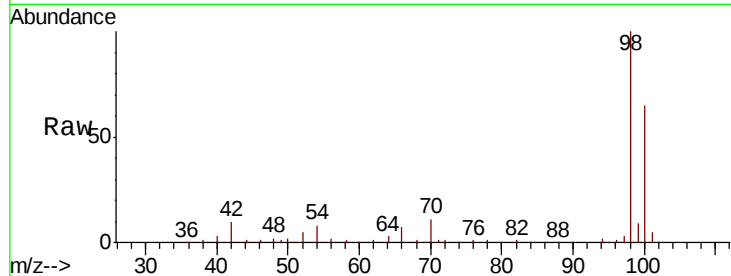
RE103D2-20200610

Tot Ion: 98 Resp: 307496

Ion Ratio Lower Upper

98 100

100 65.1 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

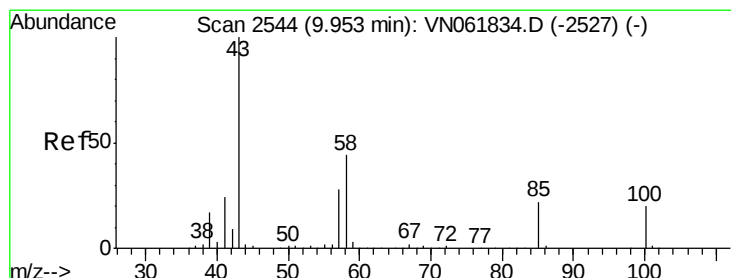
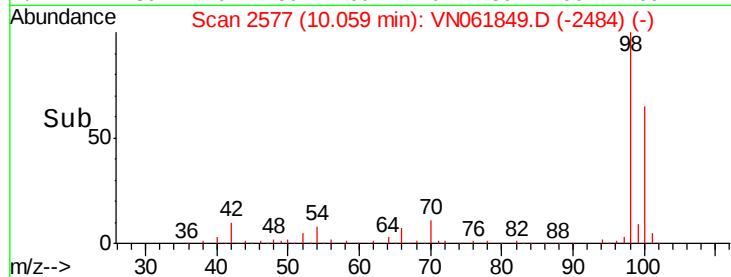
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.748 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061849.D

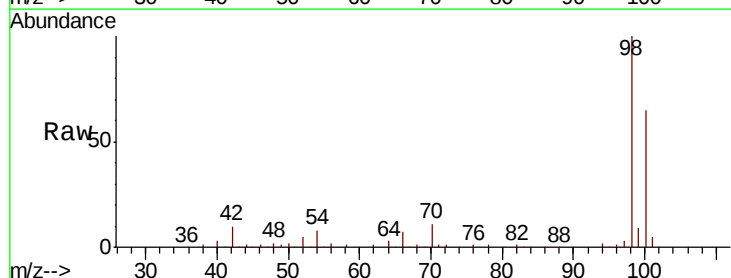
Acq: 17 Jun 2020 15:27

Tgt Ion: 43 Resp: 1310

Ion Ratio Lower Upper

43 100

58 176.0 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

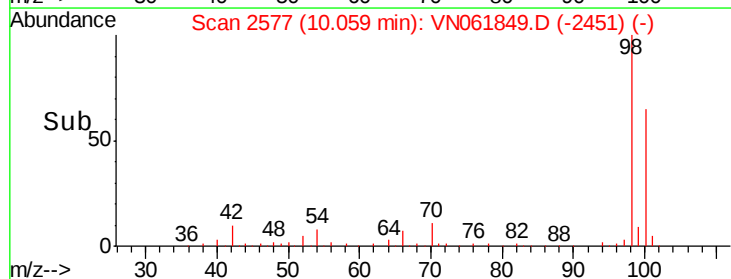
1500

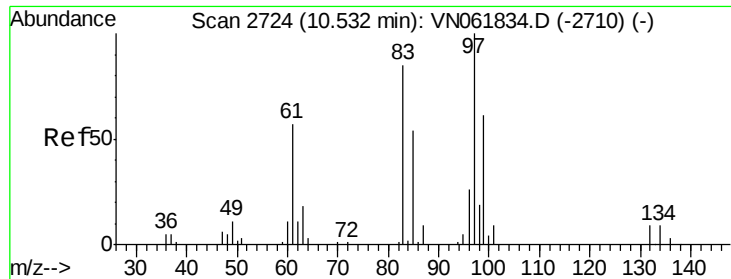
1000

500

0

Time-->

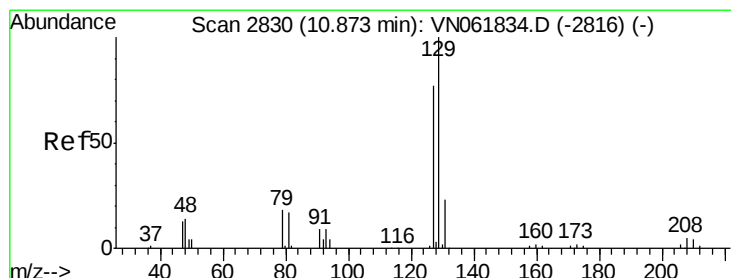
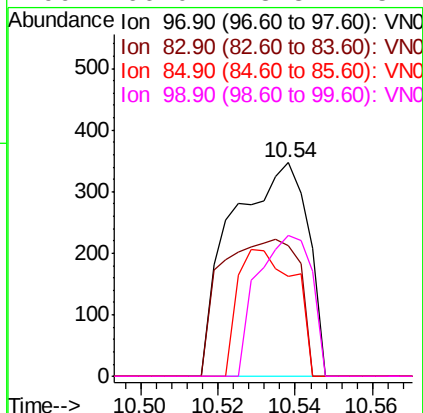
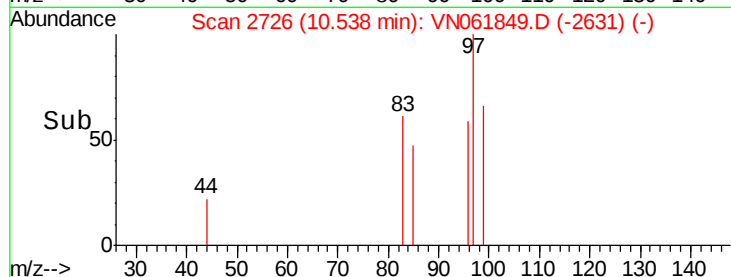
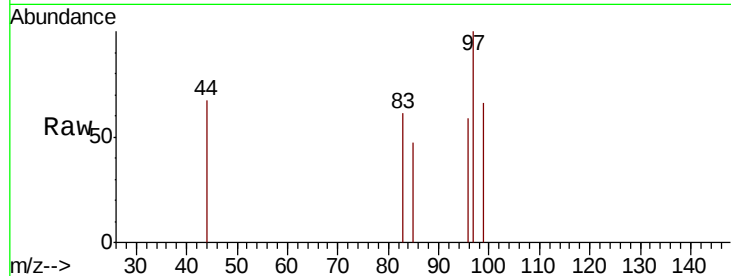




#55
 1,1,2-Trichloroethane
 Concen: 0.281 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.01 min
 Lab File: VN061849.D
 Acq: 17 Jun 2020 15:27

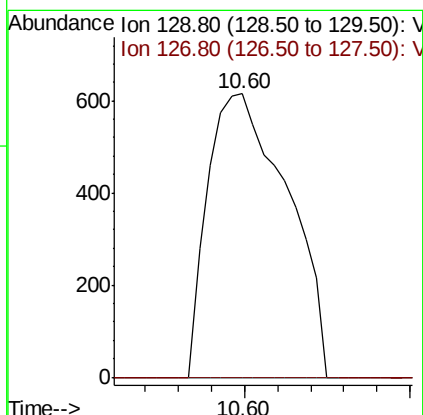
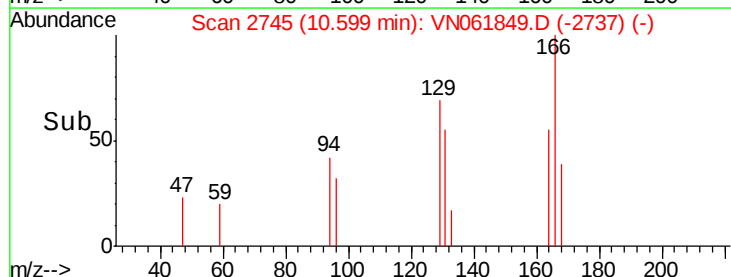
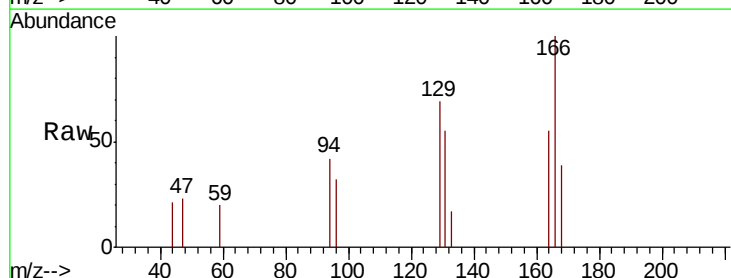
Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D2-20200610

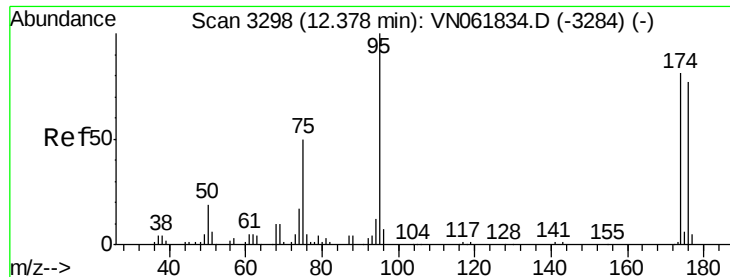
Tot Ion: 97 Resp: 474
 Ion Ratio Lower Upper
 97 100
 83 61.4 67.7 101.5#
 85 46.7 43.4 65.0
 99 66.0 48.8 73.2



#60
 Dibromochloromethane
 Concen: 0.547 ug/l
 RT: 10.60 min Scan# 2745
 Delta R.T. -0.27 min
 Lab File: VN061849.D
 Acq: 17 Jun 2020 15:27

Tgt Ion: 129 Resp: 1030
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 48.668 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

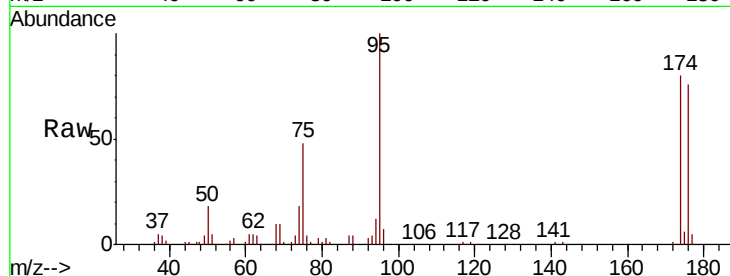
Tot Ion: 95 Resp: 103706

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.6

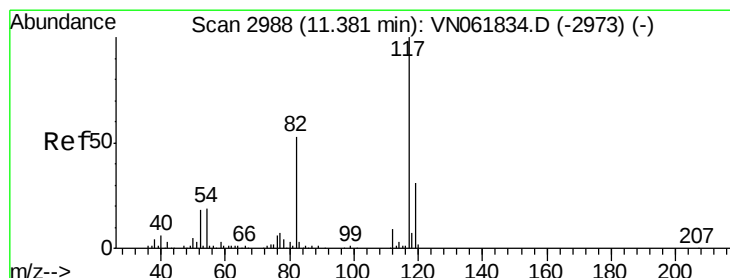
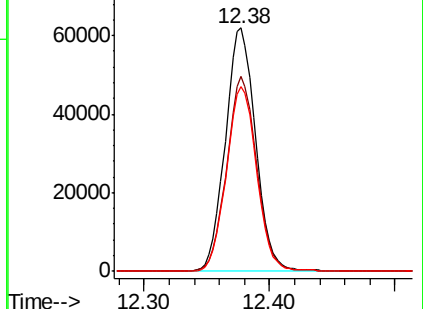
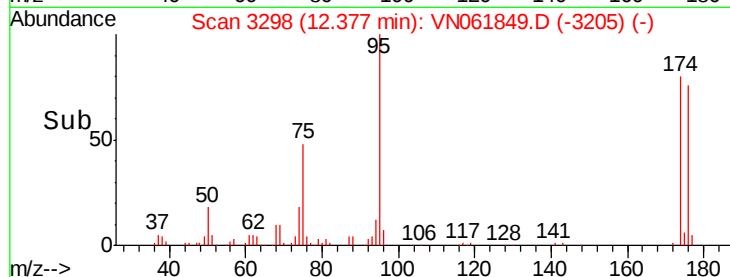
176 75.9 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

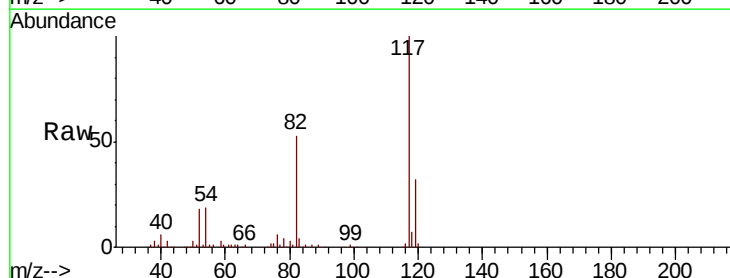
Tgt Ion: 117 Resp: 239672

Ion Ratio Lower Upper

117 100

82 53.4 42.6 64.0

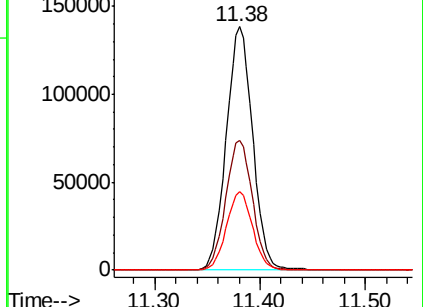
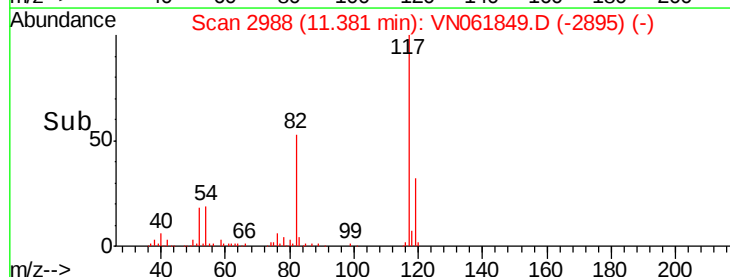
119 32.3 24.7 37.1

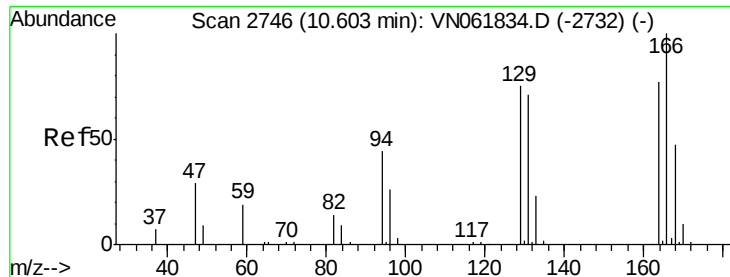


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#64

Tetrachloroethene

Concen: 0.566 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

Tot Ion:164 Resp: 864

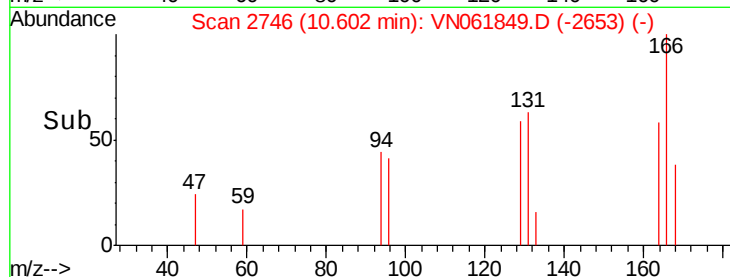
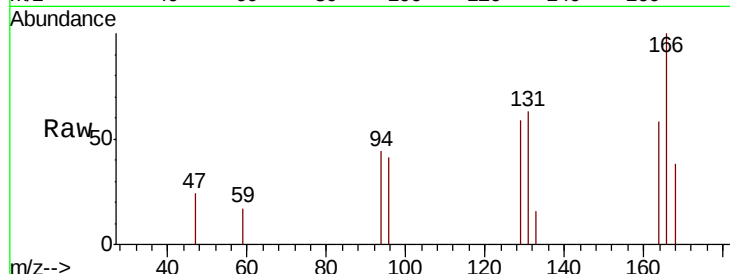
Ion Ratio Lower Upper

164 100

166 172.8 103.5 155.3#

129 102.4 77.5 116.3

131 108.8 73.8 110.8

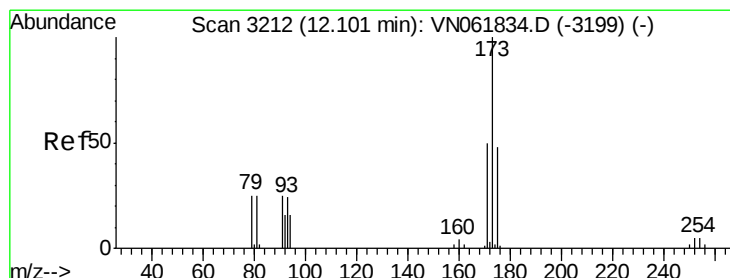
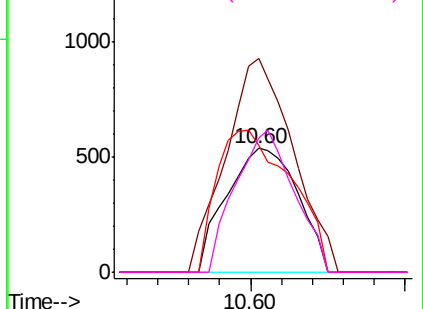


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.266 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

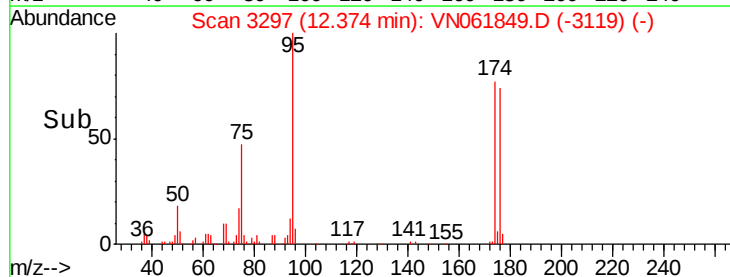
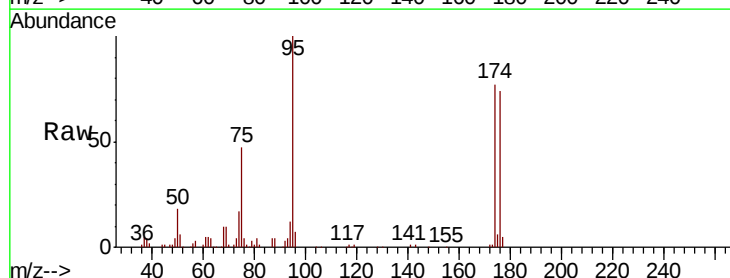
Tgt Ion:173 Resp: 342

Ion Ratio Lower Upper

173 100

175 1484.2 23.9 71.7#

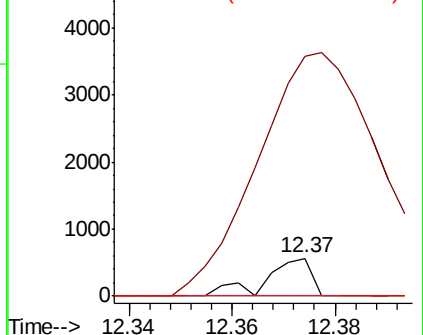
254 0.0 0.0 0.0

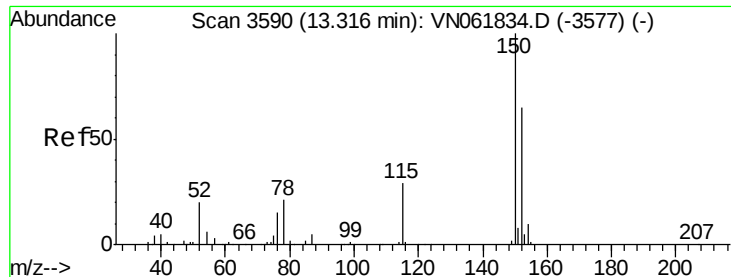


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3591

Delta R.T. 0.00 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

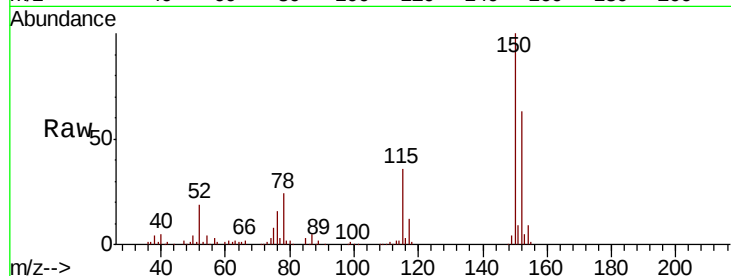
Tot Ion:152 Resp: 93961

Ion Ratio Lower Upper

152 100

115 58.2 29.1 87.3

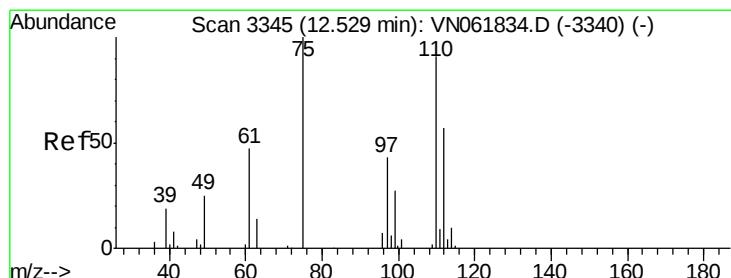
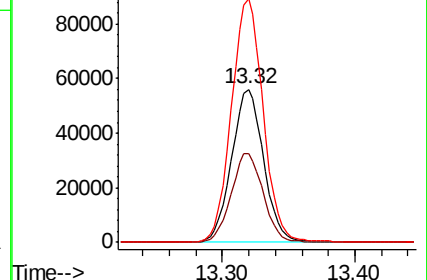
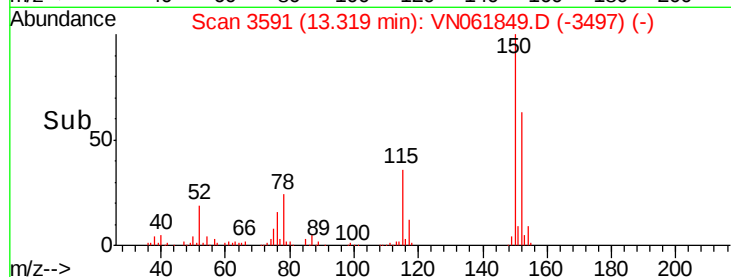
150 158.0 0.0 347.6



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: 27.590 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061849.D

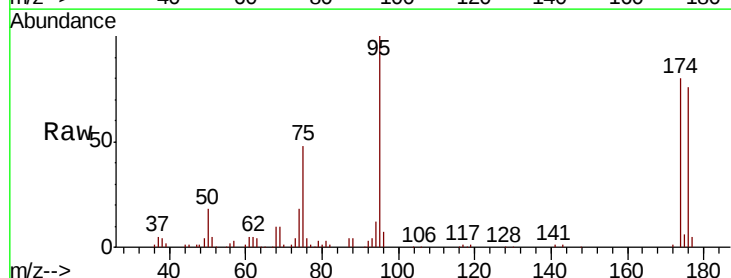
Acq: 17 Jun 2020 15:27

Tgt Ion: 75 Resp: 50895

Ion Ratio Lower Upper

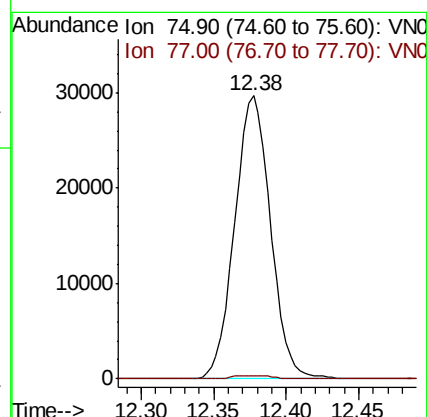
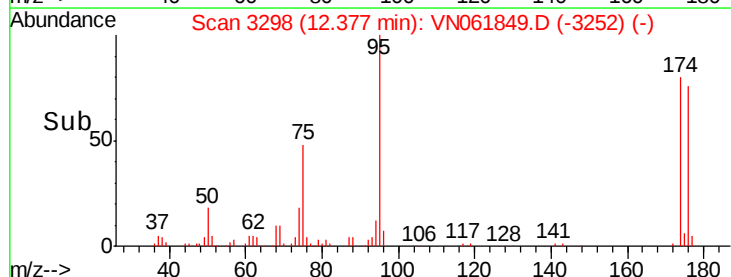
75 100

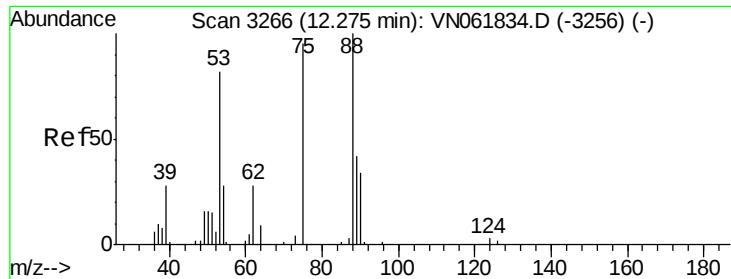
77 1.2 0.0 0.0#



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: 75.250 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061849.D

Acq: 17 Jun 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200610

Tot Ion: 75 Resp: 50895

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

