

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063630.D
 Acq On : 24 Sep 2020 15:52
 Operator : JC/MD
 Sample : L4119-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D2-20200921

Quant Time: Sep 25 03:49:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	195922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	368114	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	377407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	160218	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	169045	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	7.55	113	121051	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	10.06	98	487046	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
62) 4-Bromofluorobenzene	12.38	95	188403	53.63	ug/l	0.00
Spiked Amount			Recovery	=	107.26%	

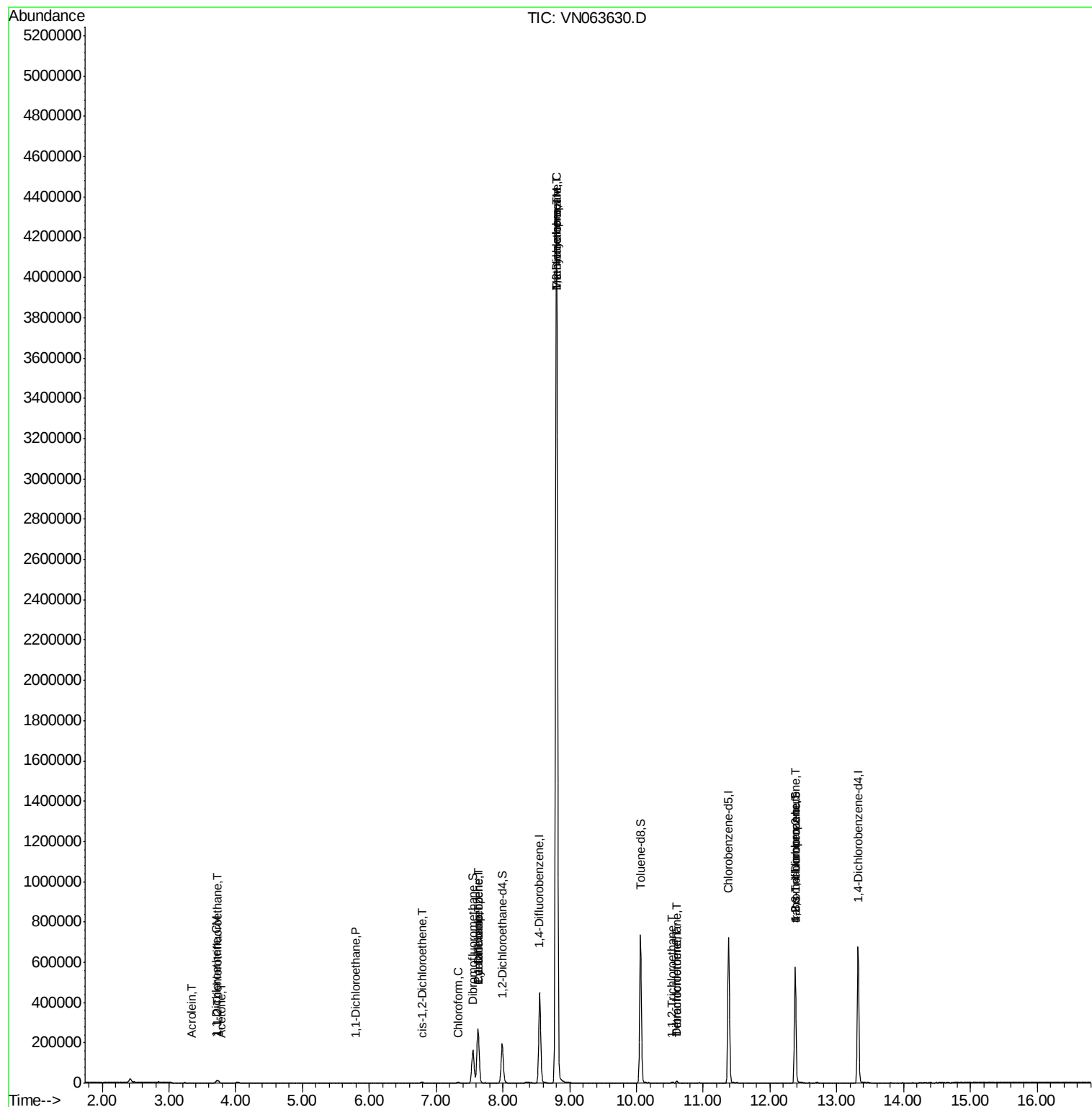
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.72	101	3530	1.617	ug/l #	46
12) 1,1-Dichloroethene	3.70	96	757	0.342	ug/l #	45
13) Acrolein	3.34	56	115	0.672	ug/l #	13
16) Acetone	3.78	43	317	0.296	ug/l #	47
24) 1,1-Dichloroethane	5.79	63	1019	0.209	ug/l #	84
27) cis-1,2-Dichloroethene	6.79	96	1151	0.415	ug/l	16
30) Chloroform	7.33	83	3017	0.618	ug/l	86
31) Cyclohexane	7.62	56	6085	1.321	ug/l #	42
36) 1,1-Dichloropropene	7.63	75	18998	4.844	ug/l #	51
39) Methylcyclohexane	8.80	83	19995	4.698	ug/l #	1
44) Trichloroethene	8.80	130	1457962	536.938	ug/l	100
45) 1,2-Dichloropropane	8.80	63	4517	1.481	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	832	0.311	ug/l	90
60) Dibromochloromethane	10.60	129	1839	0.609	ug/l #	10
64) Tetrachloroethene	10.61	164	1676	0.652	ug/l	89
76) 1,2,3-Trichloropropane	12.38	75	107340	27.068	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107340	74.209	ug/l #	7

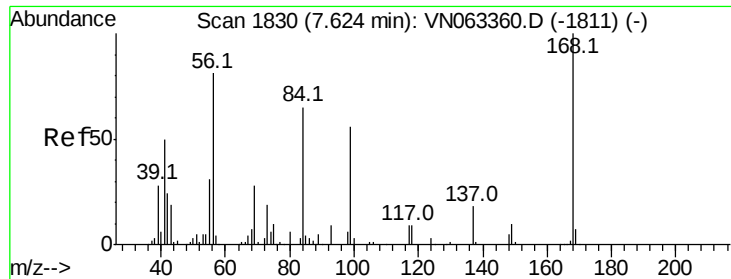
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

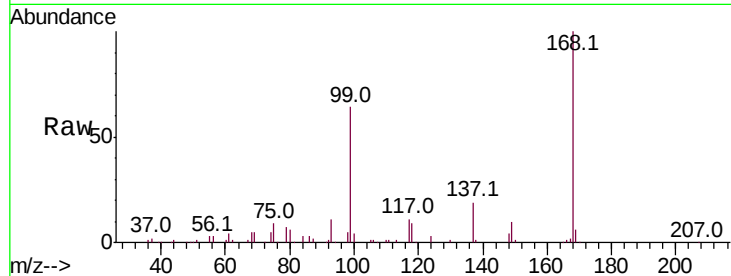
RE103D2-20200921

Tot Ion:168 Resp: 195922

Ion Ratio Lower Upper

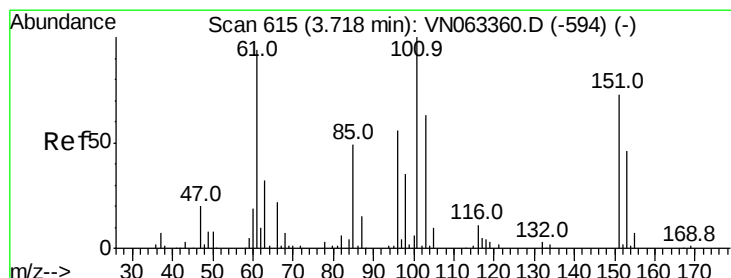
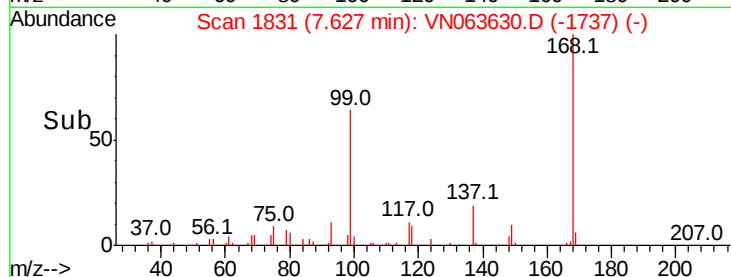
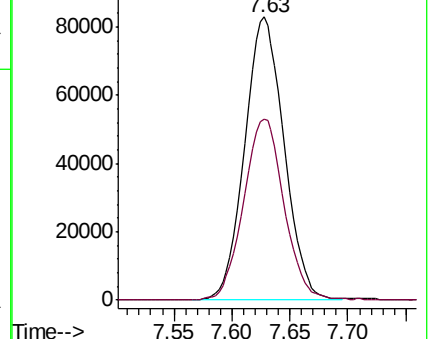
168 100

99 64.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.617 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

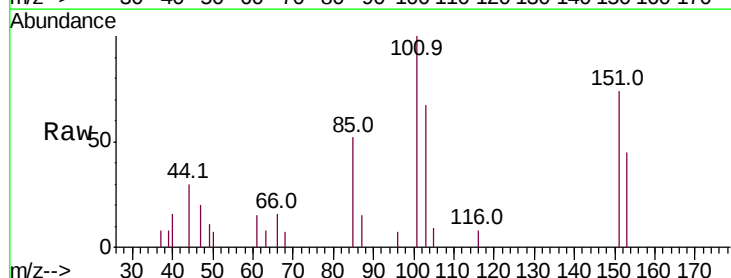
Tgt Ion:101 Resp: 3530

Ion Ratio Lower Upper

101 100

85 60.3 37.7 56.5#

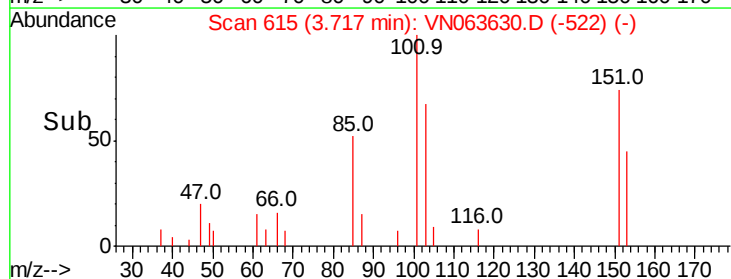
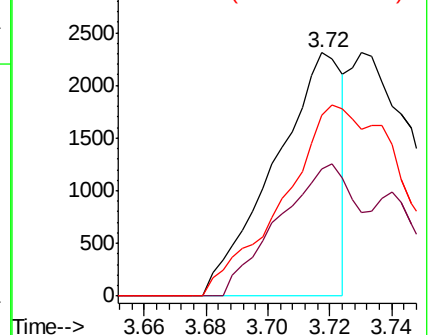
151 135.8 57.7 86.5#

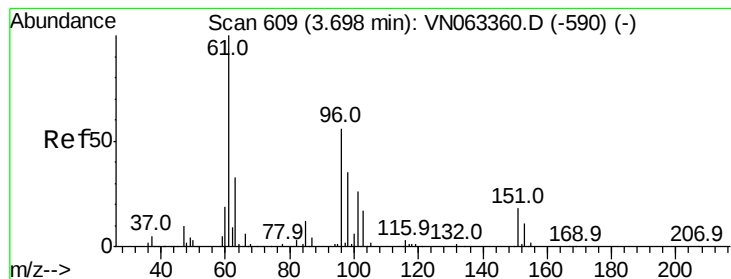


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V





#12

1,1-Dichloroethene

Concen: 0.342 ug/l

RT: 3.70 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

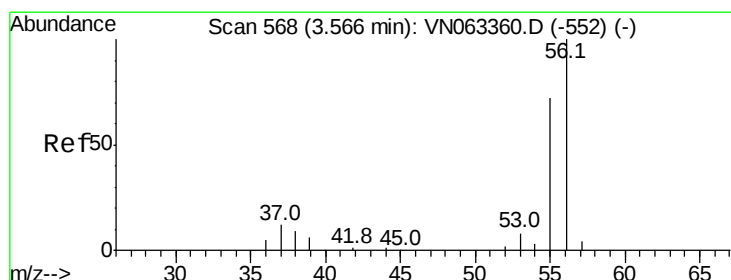
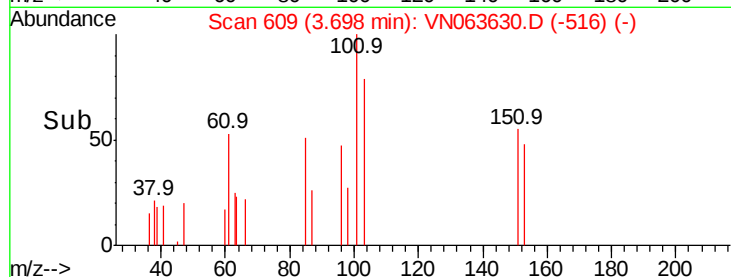
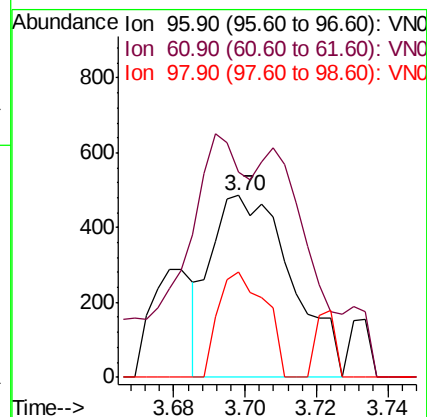
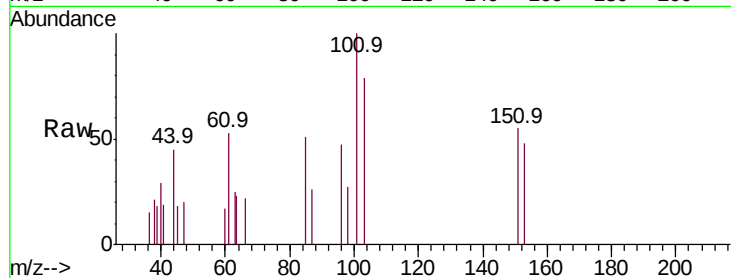
Tot Ion: 96 Resp: 757

Ion Ratio Lower Upper

96 100

61 78.0 143.4 215.2#

98 57.8 50.6 76.0



#13

Acrolein

Concen: 0.672 ug/l

RT: 3.34 min Scan# 498

Delta R.T. -0.22 min

Lab File: VN063630.D

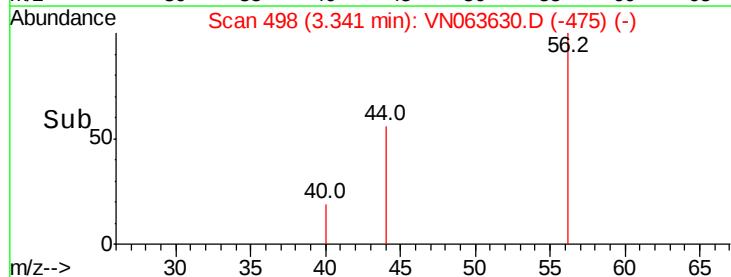
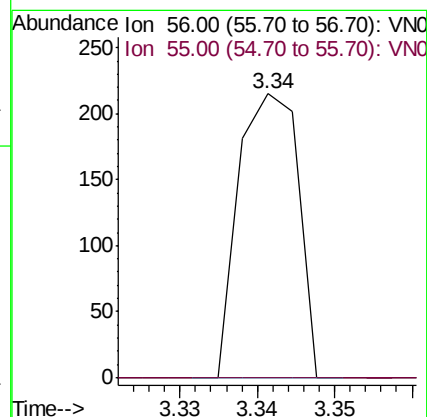
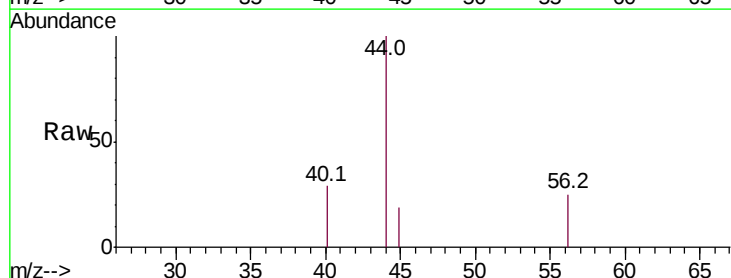
Acq: 24 Sep 2020 15:52

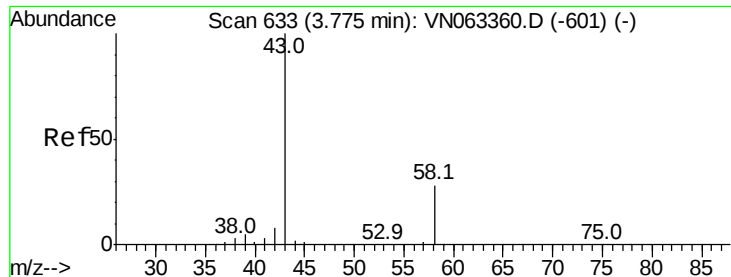
Tgt Ion: 56 Resp: 115

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#





#16

Acetone

Concen: 0.296 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

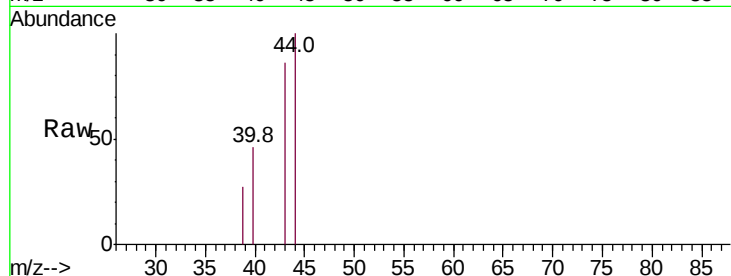
RE103D2-20200921

Tot Ion: 43 Resp: 317

Ion Ratio Lower Upper

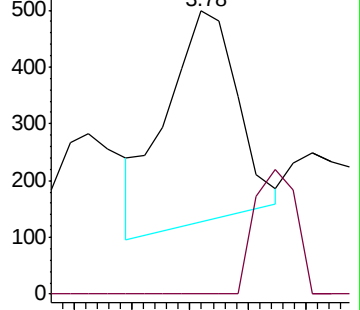
43 100

58 0.0 22.3 33.5#

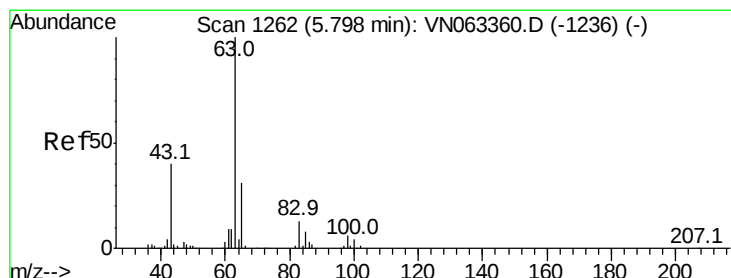
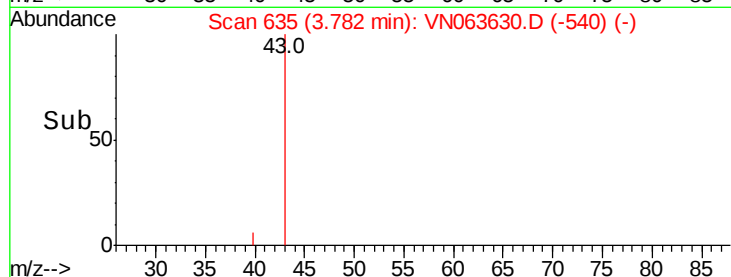


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 0.209 ug/l

RT: 5.79 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

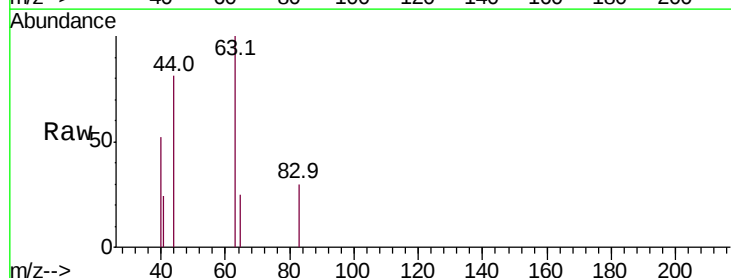
Tgt Ion: 63 Resp: 1019

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

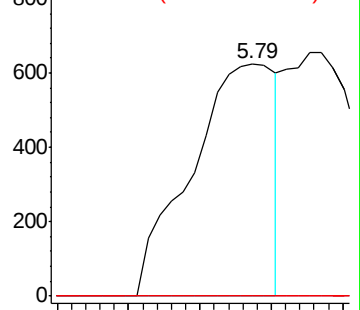
100 0.0 2.1 6.3#



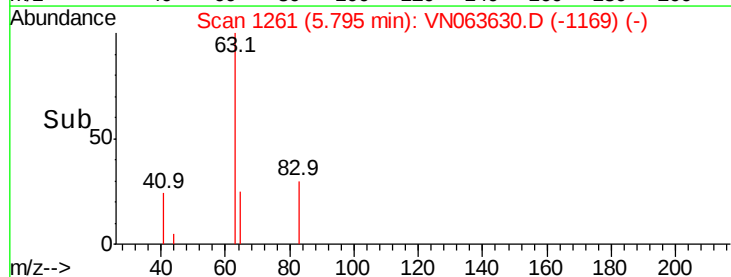
Abundance Ion 62.90 (62.60 to 63.60): VN0

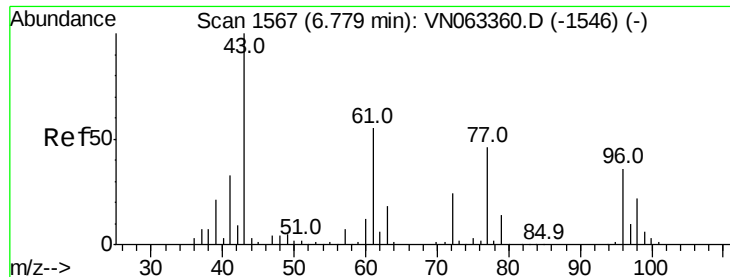
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





#27

cis-1,2-Dichloroethene

Concen: 0.415 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063360.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

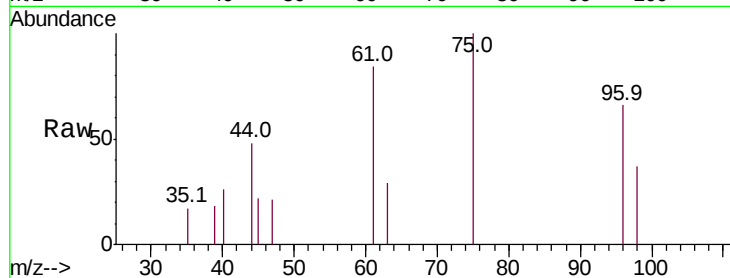
Tot Ion: 96 Resp: 1151

Ion Ratio Lower Upper

96 100

61 33.8 0.0 319.6

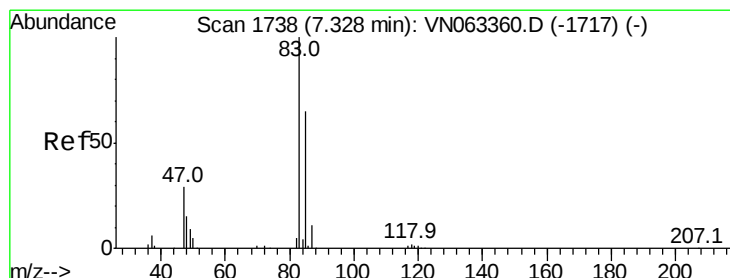
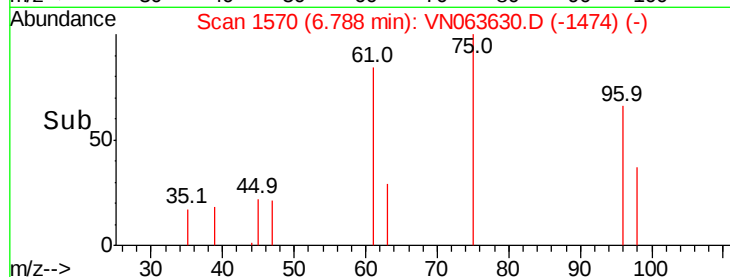
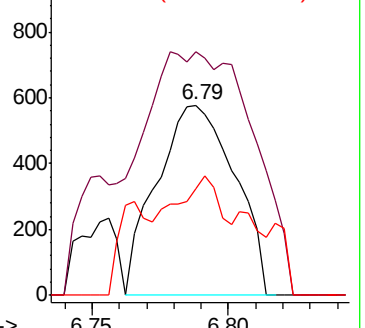
98 20.3 0.0 127.8



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



#30

Chloroform

Concen: 0.618 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VN063360.D

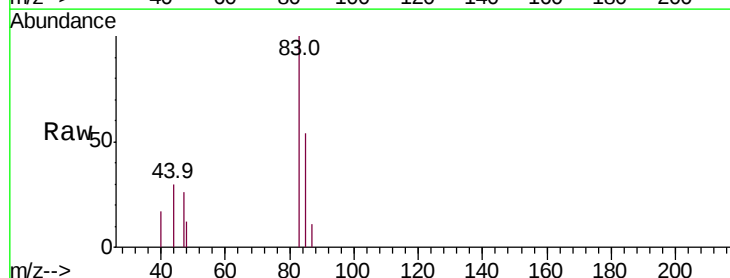
Acq: 24 Sep 2020 15:52

Tgt Ion: 83 Resp: 3017

Ion Ratio Lower Upper

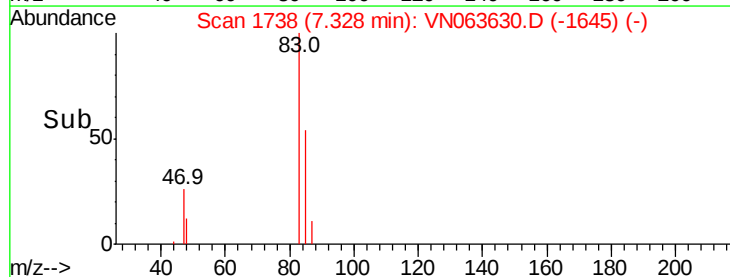
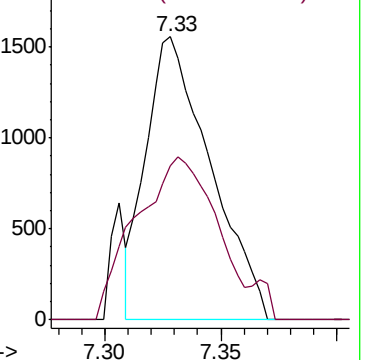
83 100

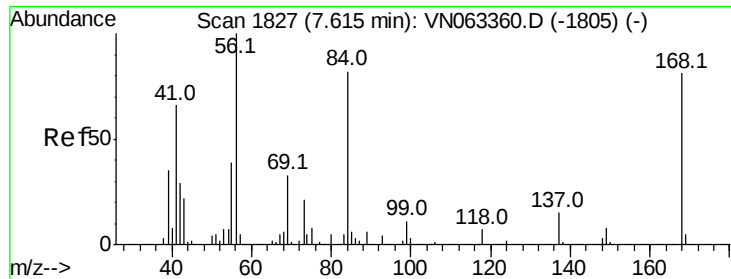
85 54.2 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

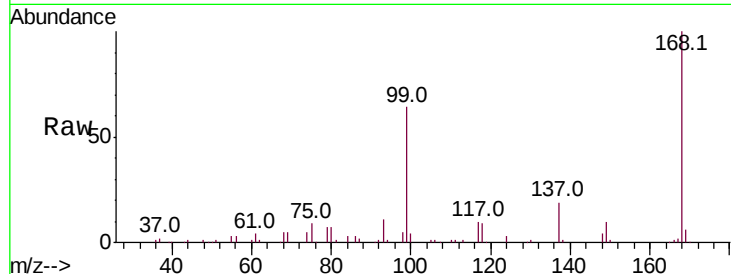




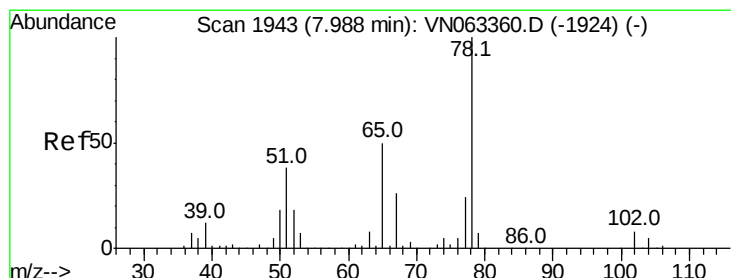
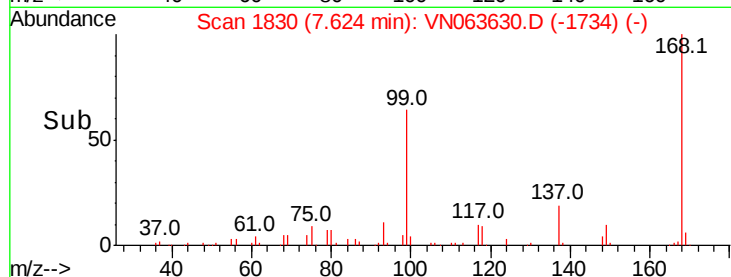
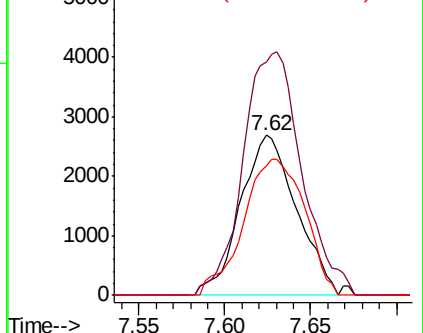
#31
Cyclohexane
Concen: 1.321 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063630.D
Acq: 24 Sep 2020 15:52

Instrument :
MSVOA_N
ClientSampleId :
RE103D2-20200921

Tot Ion: 56 Resp: 6085
Ion Ratio Lower Upper
56 100
69 146.0 26.1 39.1#
84 81.2 65.4 98.2

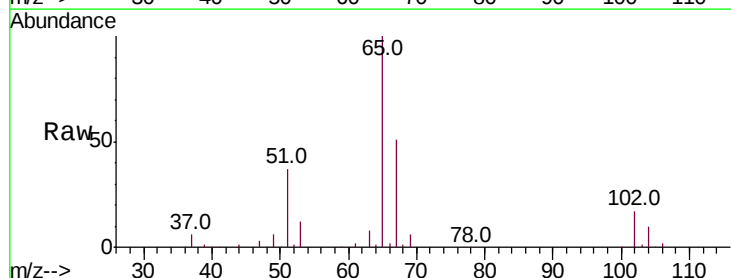


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

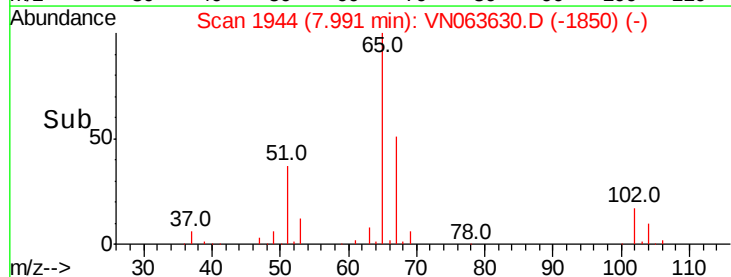
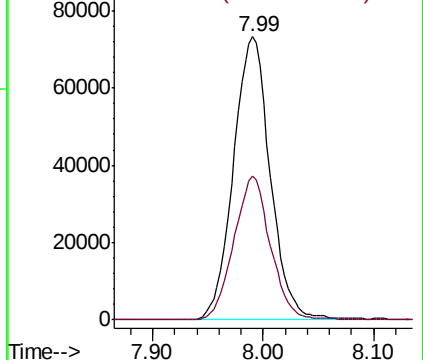


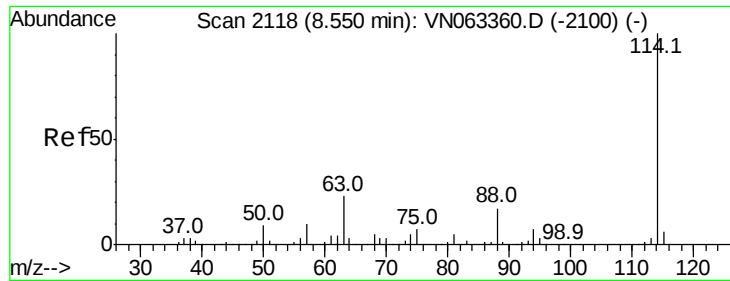
#33
1,2-Dichloroethane-d4
Concen: 50.686 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063630.D
Acq: 24 Sep 2020 15:52

Tgt Ion: 65 Resp: 169045
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

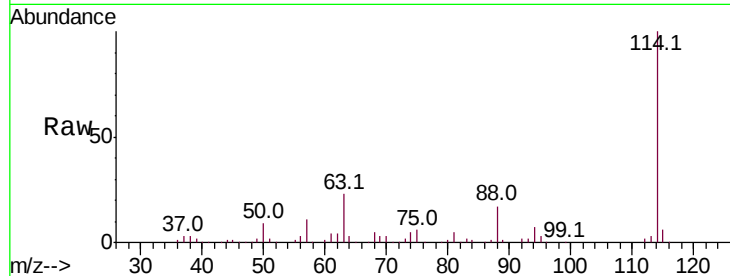




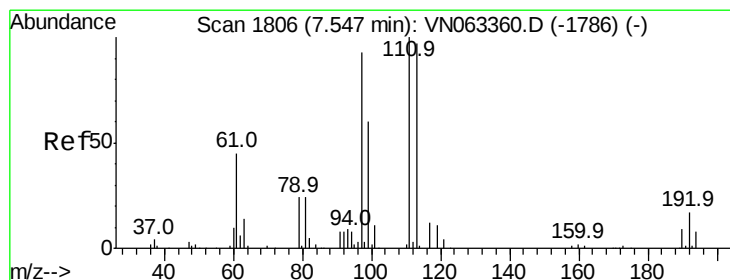
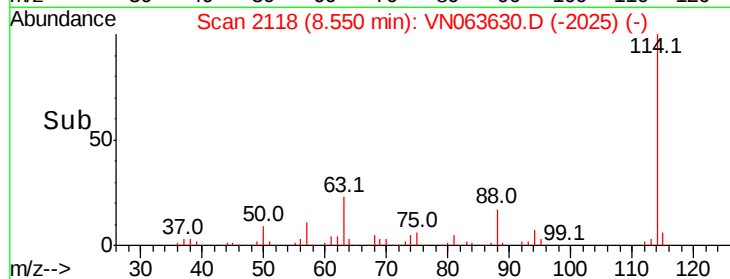
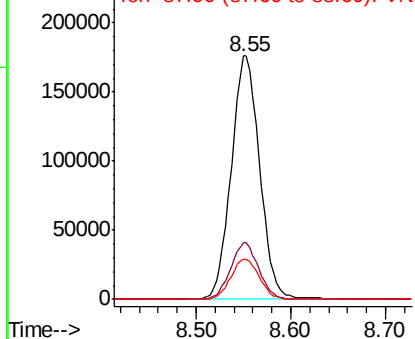
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063360.D
 Acq: 24 Sep 2020 15:52

Instrument :
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 RE103D2-20200921

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	46.4
88	16.7	0.0	33.2

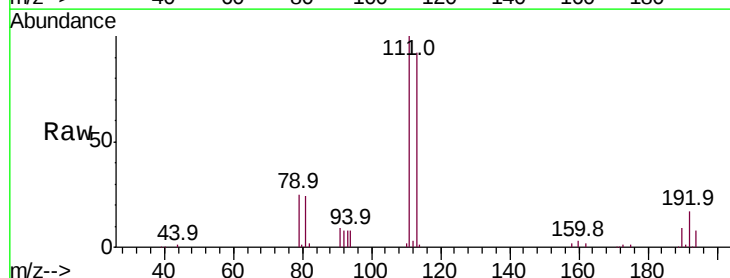


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

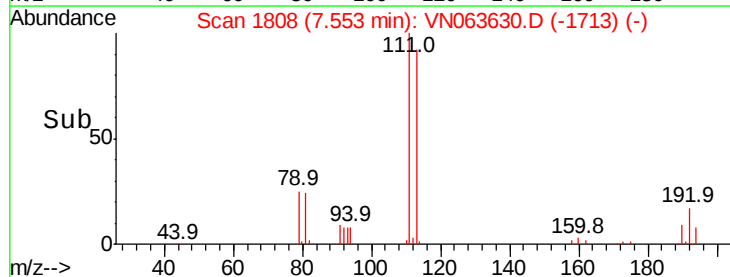
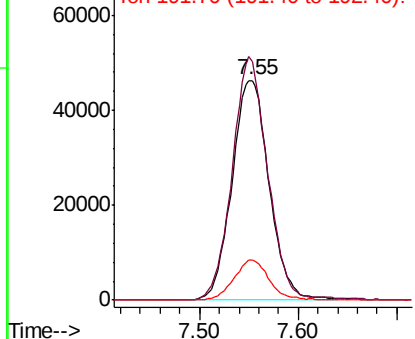


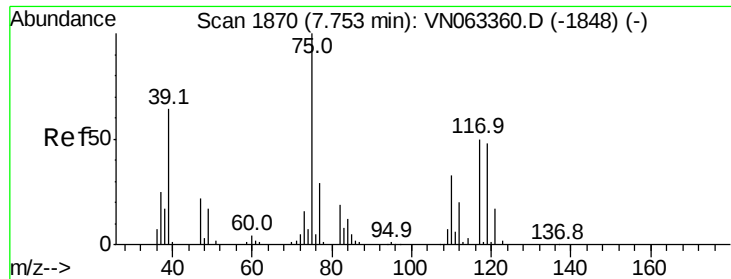
#35
 Dibromofluoromethane
 Concen: 47.501 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063360.D
 Acq: 24 Sep 2020 15:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.9	124.3
192	17.2	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: 4.844 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN063360.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

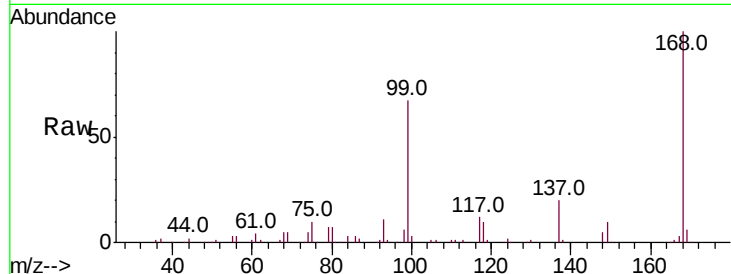
Tot Ion: 75 Resp: 18998

Ion Ratio Lower Upper

75 100

110 9.1 16.5 49.5#

77 0.0 24.6 36.8#



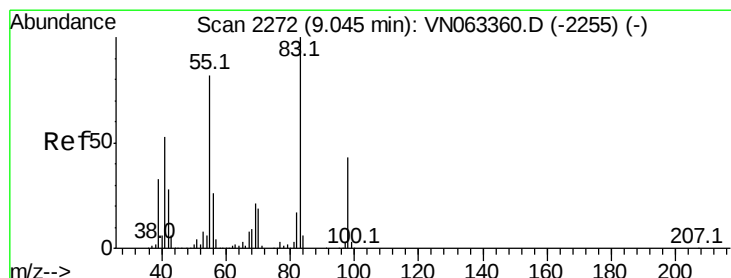
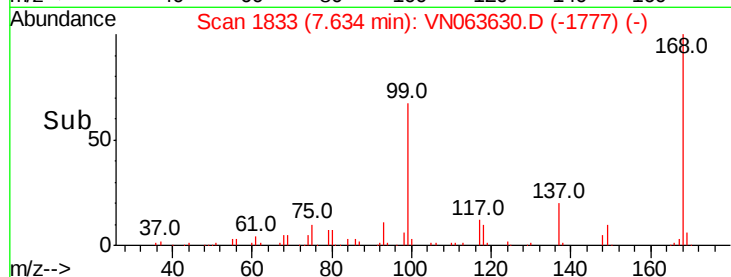
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

7.63

Time-->



#39

Methylcyclohexane

Concen: 4.698 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.24 min

Lab File: VN063360.D

Acq: 24 Sep 2020 15:52

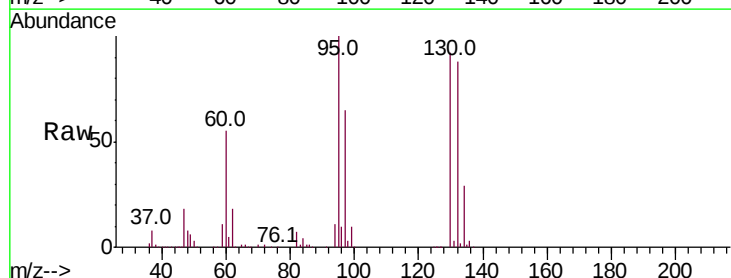
Tgt Ion: 83 Resp: 19995

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

98 206.1 34.2 51.4#



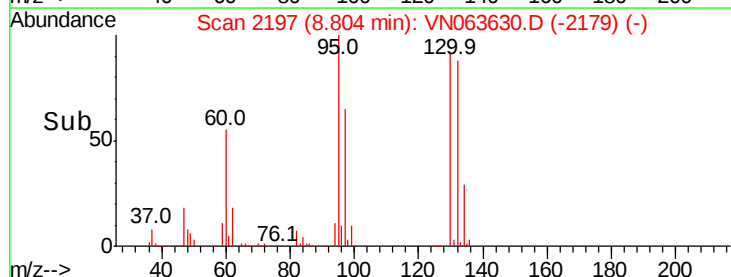
Abundance Ion 83.00 (82.70 to 83.70): VN0

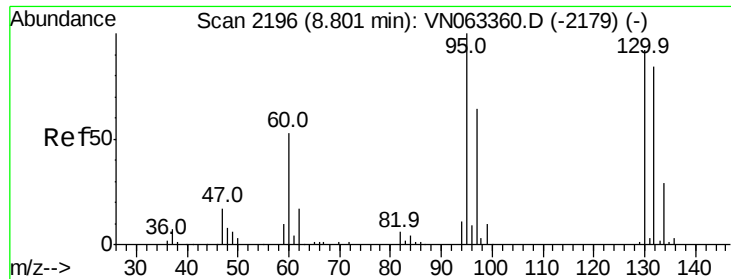
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

8.80

Time-->





#44

Trichloroethene

Concen: 536.938 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

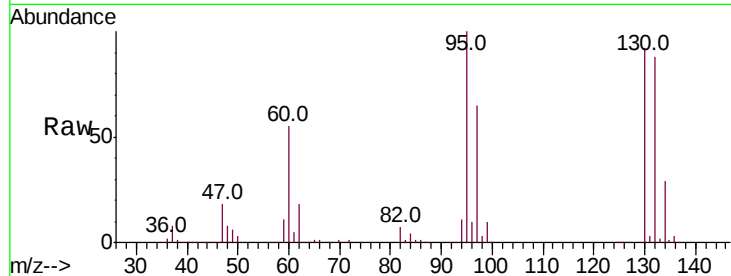
RE103D2-20200921

Tot Ion:130 Resp: 1457962

Ion Ratio Lower Upper

130 100

95 108.5 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063360.D (-2179) (-)

8.80

800000

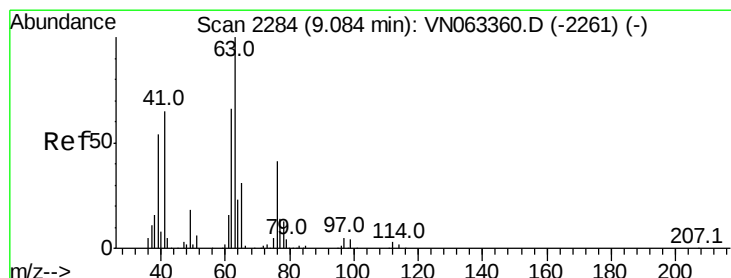
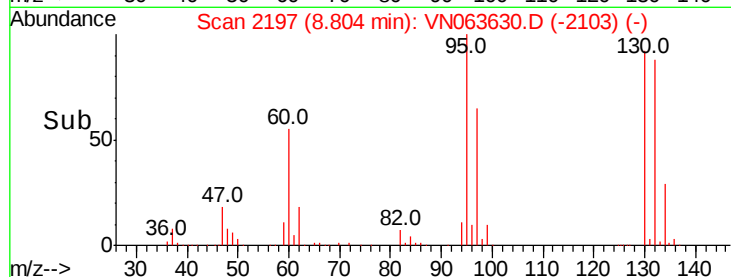
600000

400000

200000

0

Time-->



#45

1,2-Dichloropropane

Concen: 1.481 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.28 min

Lab File: VN063630.D

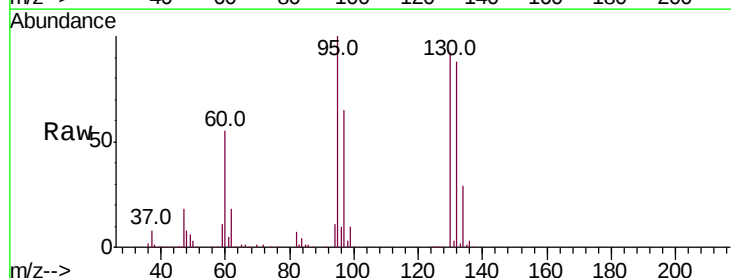
Acq: 24 Sep 2020 15:52

Tgt Ion: 63 Resp: 4517

Ion Ratio Lower Upper

63 100

65 329.4 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

12000

10000

8000

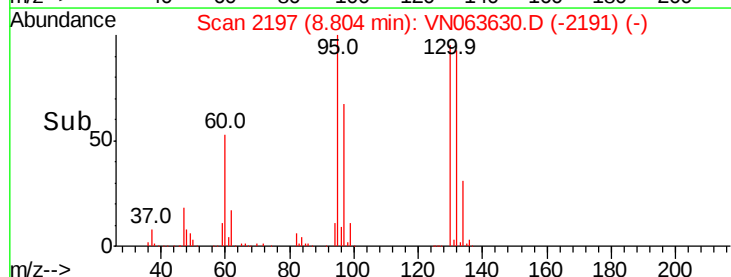
6000

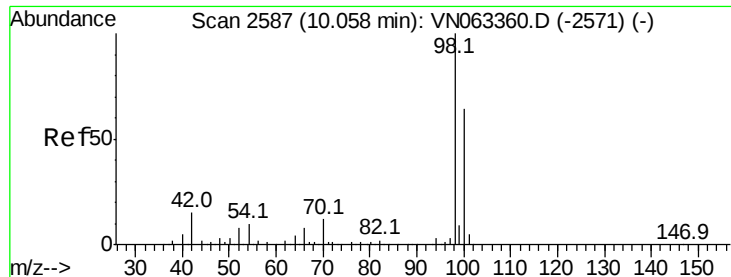
4000

2000

0

Time-->





#50

Toluene-d8

Concen: 50.827 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

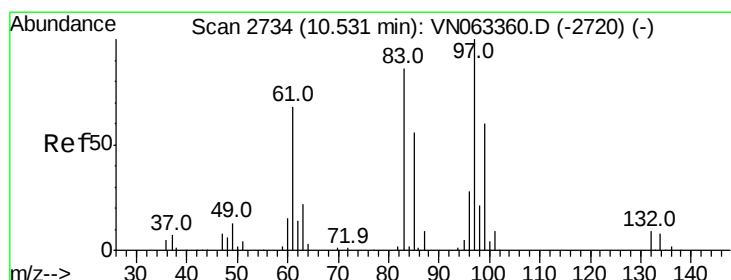
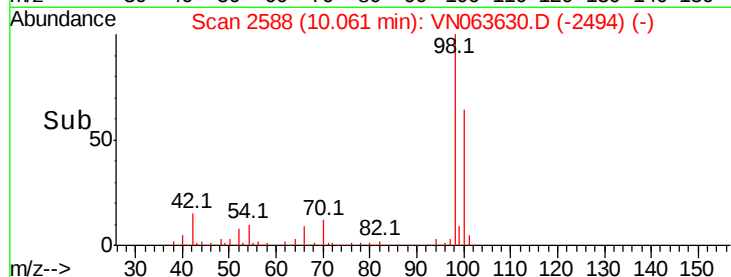
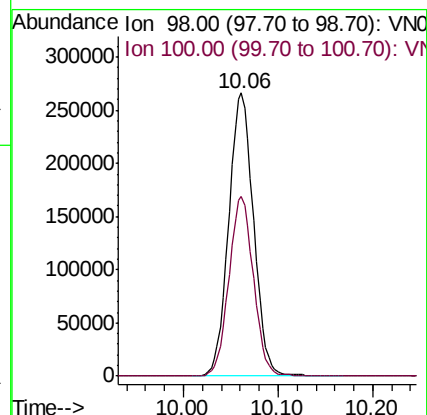
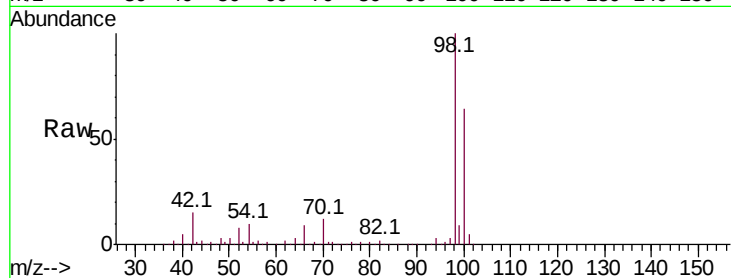
RE103D2-20200921

Tot Ion: 98 Resp: 487046

Ion Ratio Lower Upper

98 100

100 62.4 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.311 ug/l

RT: 10.54 min Scan# 2737

Delta R.T. 0.01 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Tgt Ion: 97 Resp: 832

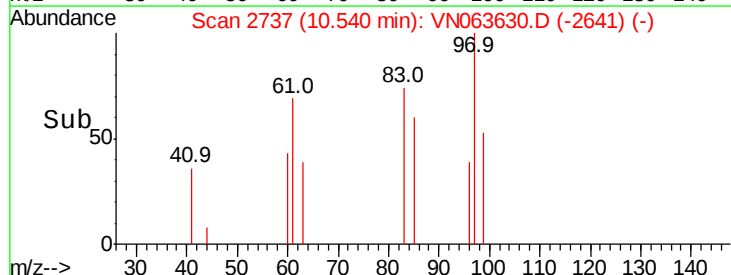
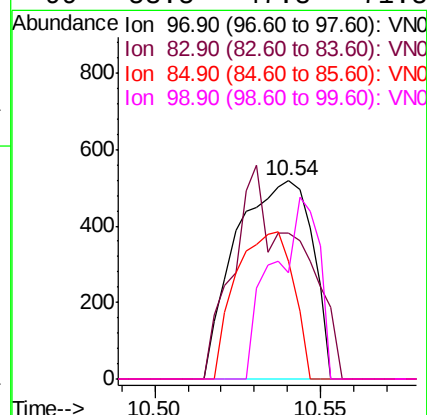
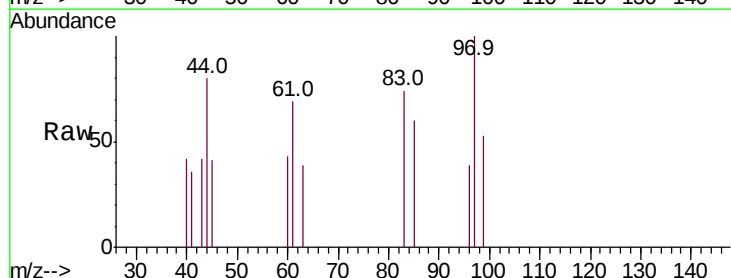
Ion Ratio Lower Upper

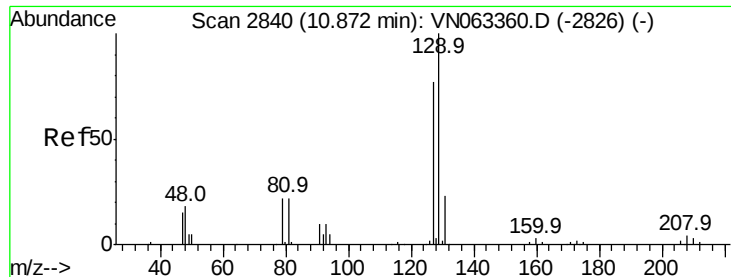
97 100

83 73.7 68.9 103.3

85 59.7 44.8 67.2

99 53.5 47.8 71.8

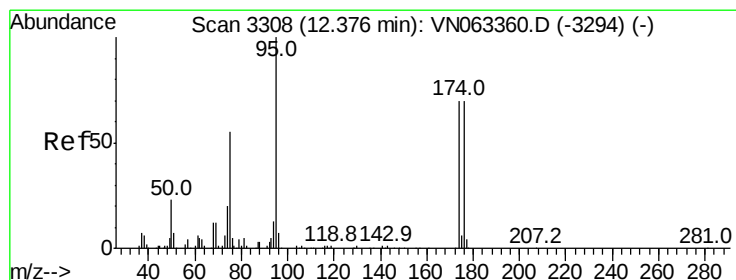
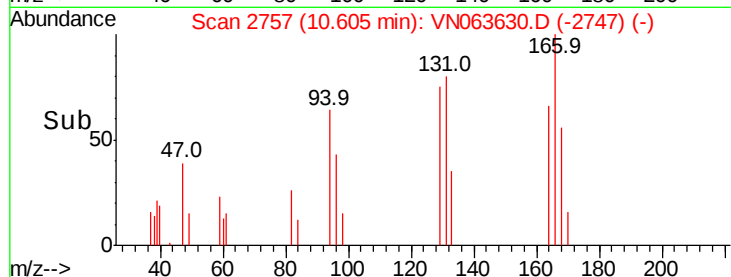
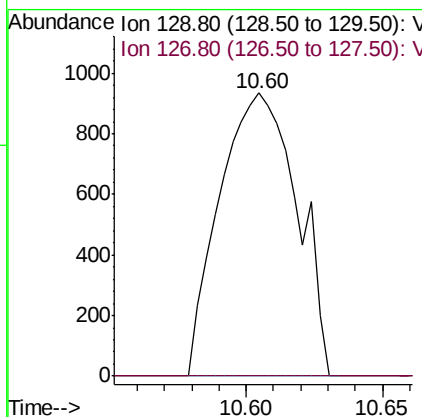
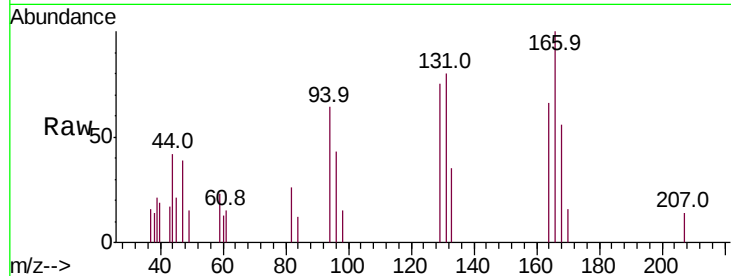




#60
Dibromochloromethane
Concen: 0.609 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN063630.D
Acq: 24 Sep 2020 15:52

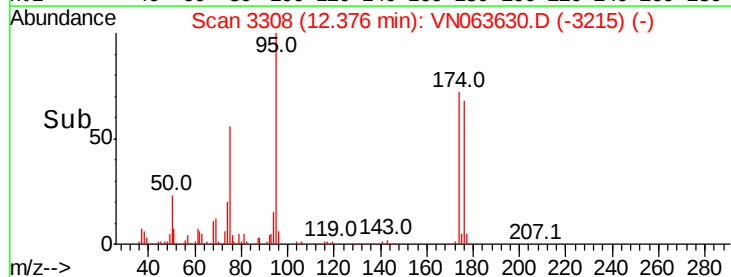
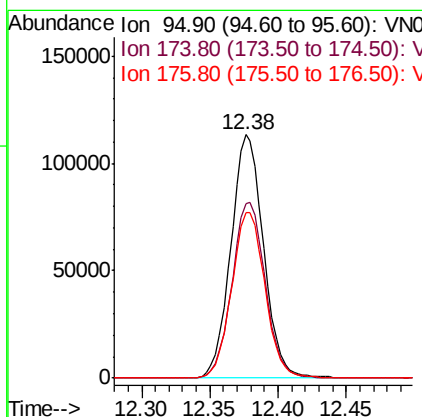
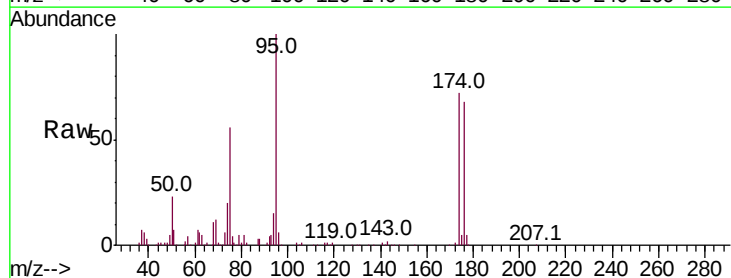
Instrument :
MSVOA_N
ClientSampleId :
RE103D2-20200921

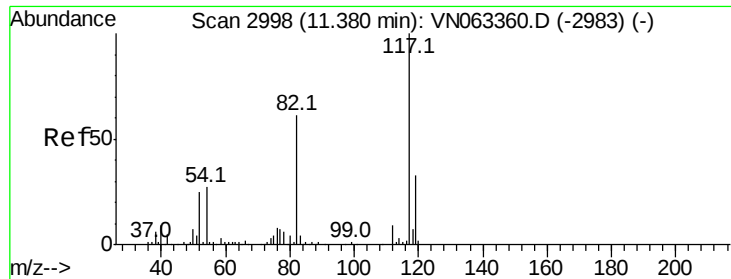
Tot Ion:129 Resp: 1839
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#



#62
4-Bromofluorobenzene
Concen: 53.635 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063630.D
Acq: 24 Sep 2020 15:52

Tgt Ion: 95 Resp: 188403
Ion Ratio Lower Upper
95 100
174 73.4 0.0 140.8
176 69.9 0.0 137.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

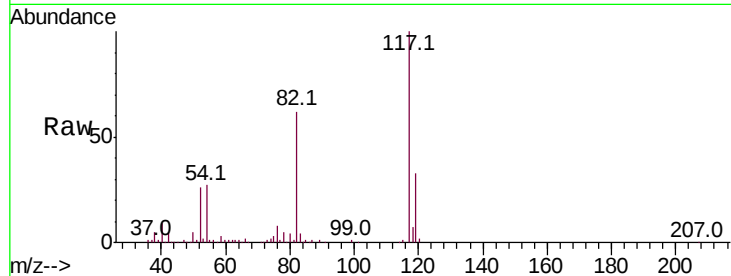
Tot Ion:117 Resp: 377407

Ion Ratio Lower Upper

117 100

82 61.6 49.2 73.8

119 33.3 26.2 39.4

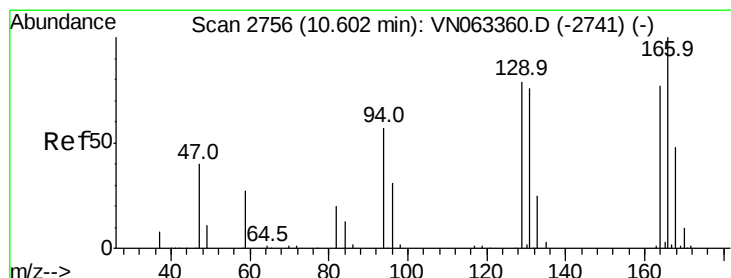
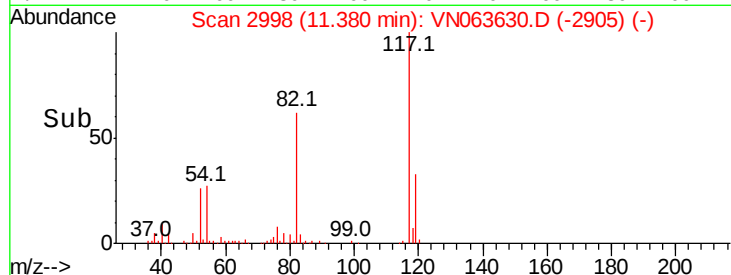
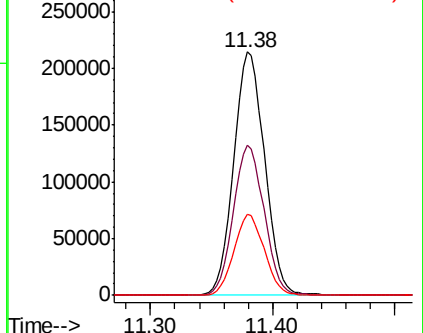


Abundance

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



#64

Tetrachloroethene

Concen: 0.652 ug/l

RT: 10.61 min Scan# 2759

Delta R.T. 0.01 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Tgt Ion:164 Resp: 1676

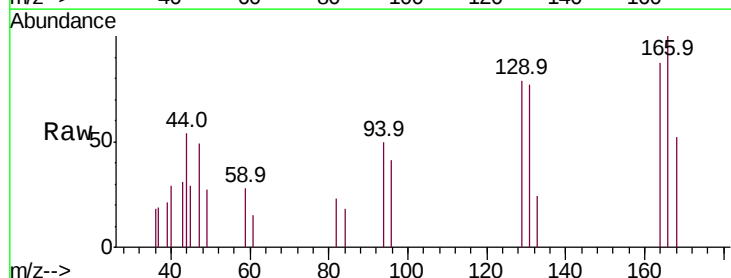
Ion Ratio Lower Upper

164 100

166 114.5 103.4 155.0

129 90.1 81.8 122.6

131 88.7 78.2 117.4



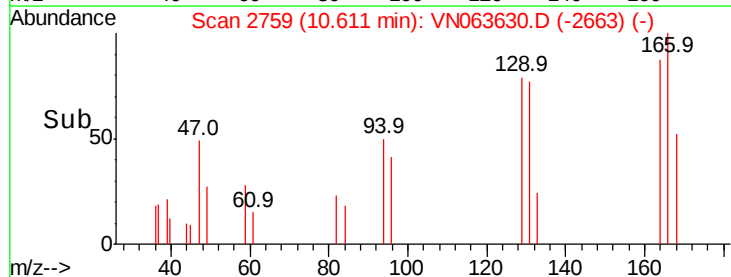
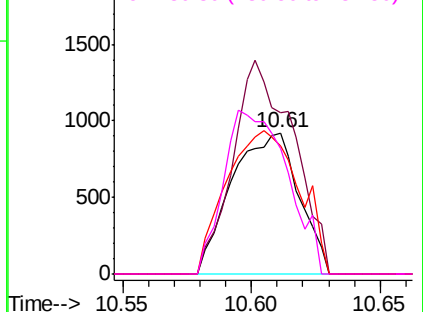
Abundance

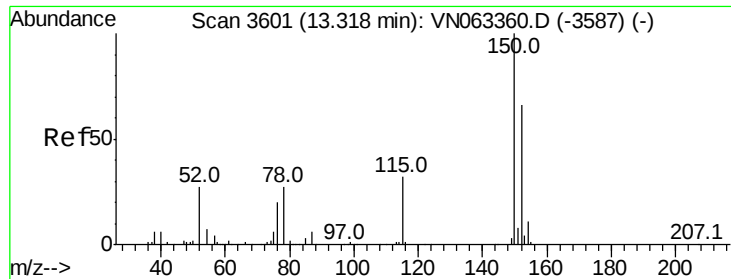
Ion 163.80 (163.50 to 164.50): V

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

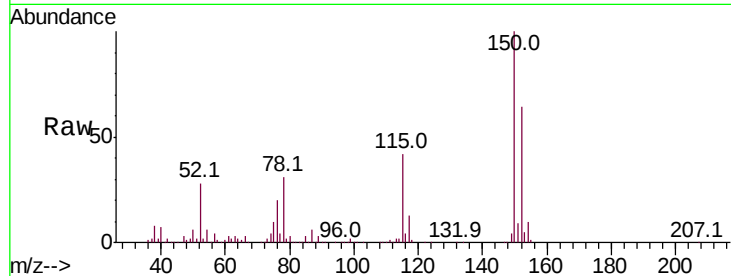
Tot Ion:152 Resp: 160218

Ion Ratio Lower Upper

152 100

115 64.4 32.2 96.6

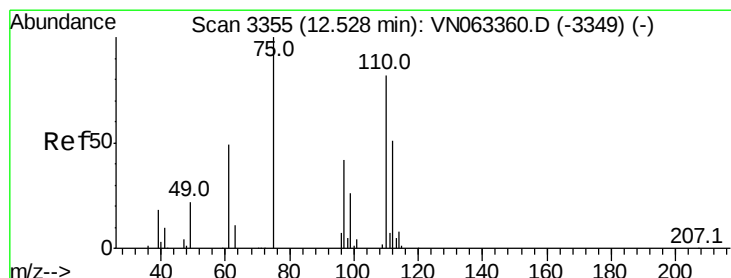
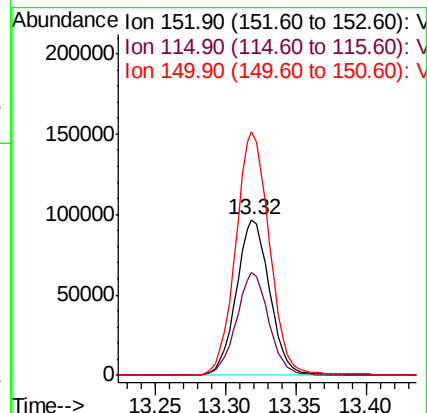
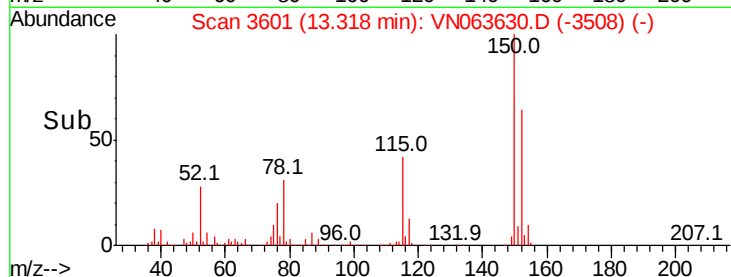
150 158.9 0.0 343.4



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: 27.068 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063630.D

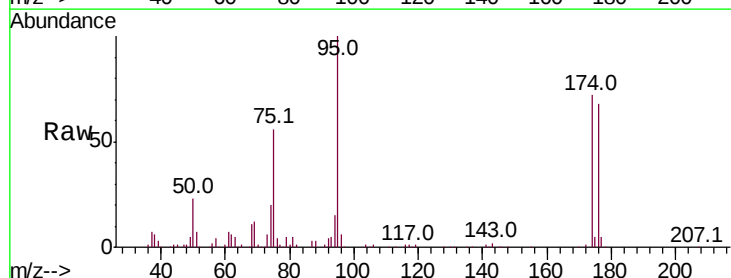
Acq: 24 Sep 2020 15:52

Tgt Ion: 75 Resp: 107340

Ion Ratio Lower Upper

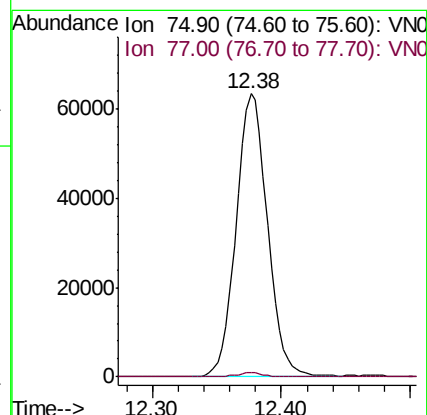
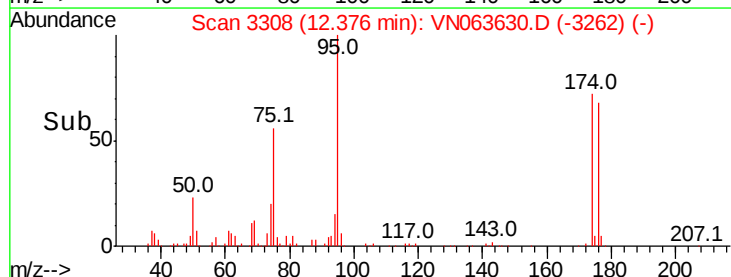
75 100

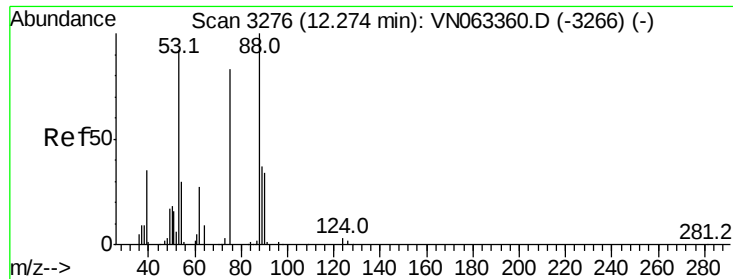
77 1.2 0.0 0.0#



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: 74.209 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063630.D

Acq: 24 Sep 2020 15:52

Instrument :

MSVOA_N

ClientSampleId :

RE103D2-20200921

Tot Ion: 75 Resp: 107340

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

