

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063603.D
 Acq On : 23 Sep 2020 20:54
 Operator : JC/MD
 Sample : L4083-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20200917

Quant Time: Sep 24 02:38:17 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	198366	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	370052	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	380190	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156678	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	170788	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	7.55	113	122543	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.06	98	480653	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.38	95	185683	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	

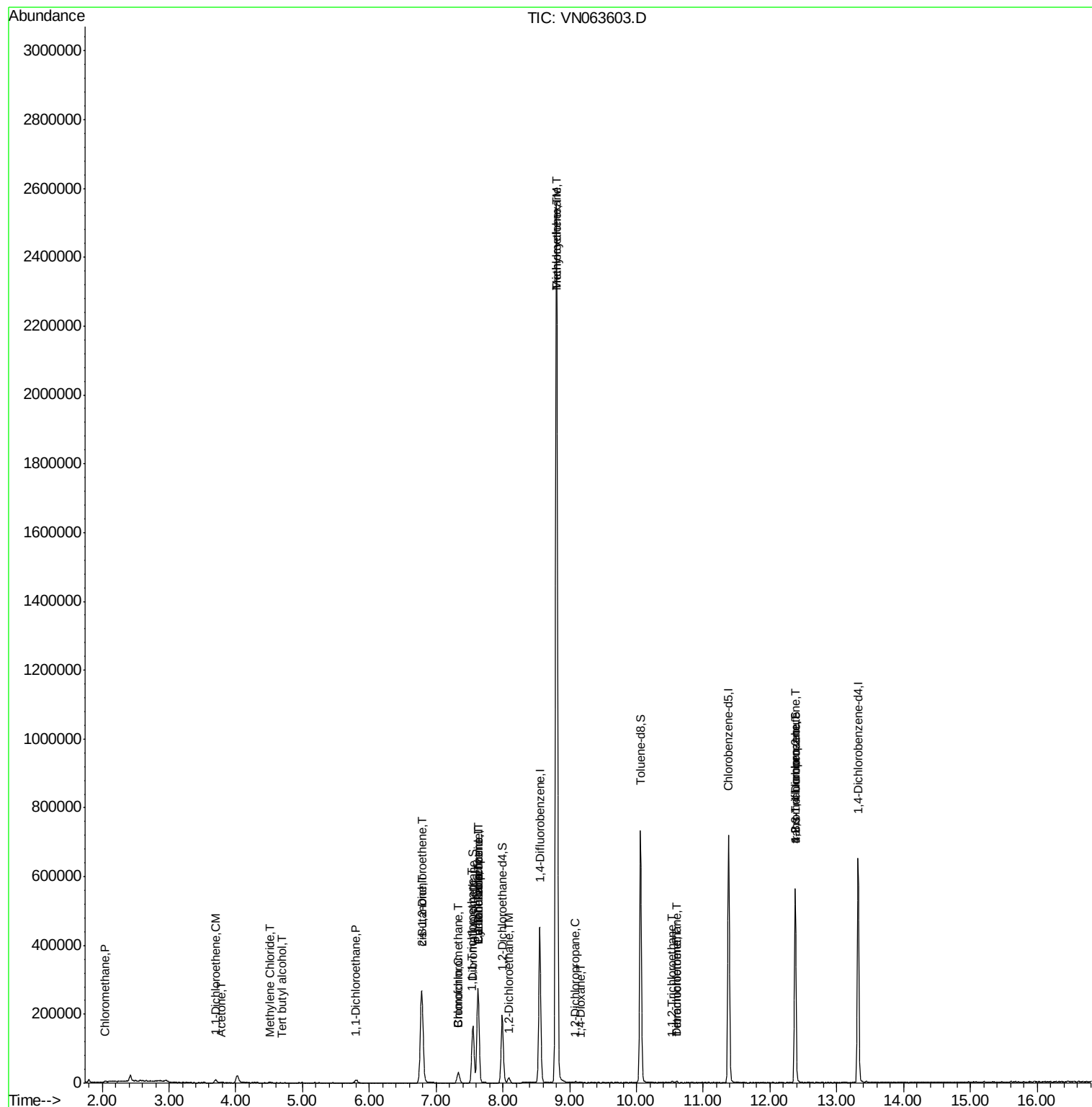
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2253	0.758	ug/l #	86
11) Tert butyl alcohol	4.70	59	103	0.220	ug/l #	72
12) 1,1-Dichloroethene	3.69	96	4351	1.944	ug/l	99
16) Acetone	3.78	43	4974	4.583	ug/l	100
20) Methylene Chloride	4.51	84	1030	0.375	ug/l #	89
24) 1,1-Dichloroethane	5.80	63	11641	2.361	ug/l	97
25) 2-Butanone	6.79	43	425	0.255	ug/l #	45
27) cis-1,2-Dichloroethene	6.78	96	160436	57.152	ug/l	90
28) Bromochloromethane	7.33	49	2995	1.316	ug/l #	20
30) Chloroform	7.33	83	30164	6.098	ug/l	96
31) Cyclohexane	7.63	56	5898	1.265	ug/l #	34
32) 1,1,1-Trichloroethane	7.53	97	1325	0.301	ug/l #	45
36) 1,1-Dichloropropene	7.63	75	18736	4.752	ug/l #	47
38) Carbon Tetrachloride	7.62	117	22219	5.521	ug/l #	17
39) Methylcyclohexane	8.80	83	12069	2.821	ug/l #	1
42) 1,2-Dichloroethane	8.09	62	11933	2.637	ug/l	98
44) Trichloroethene	8.80	130	858131	314.377	ug/l	98
45) 1,2-Dichloropropane	9.09	63	1163	0.379	ug/l	99
49) 1,4-Dioxane	9.18	88	517	10.599	ug/l #	79
55) 1,1,2-Trichloroethane	10.53	97	1305	0.486	ug/l #	87
60) Dibromochloromethane	10.60	129	978	0.322	ug/l #	10
64) Tetrachloroethene	10.60	164	930	0.359	ug/l	94
76) 1,2,3-Trichloropropane	12.38	75	109321	28.190	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	109321	77.286	ug/l #	7

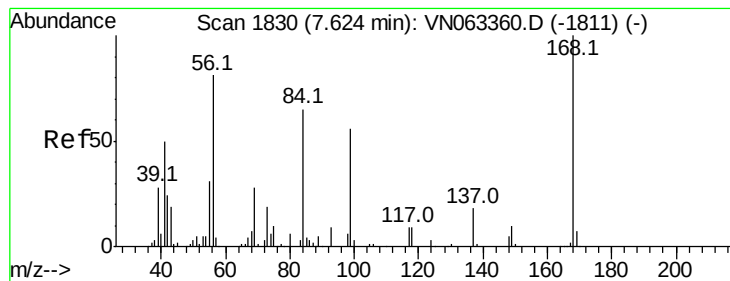
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

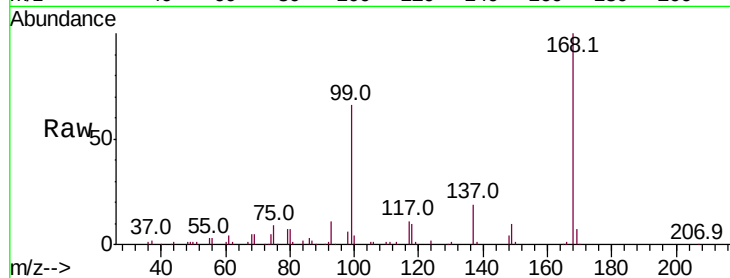
RE104D2-20200917

Tot Ion:168 Resp: 198366

Ion Ratio Lower Upper

168 100

99 65.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

60000

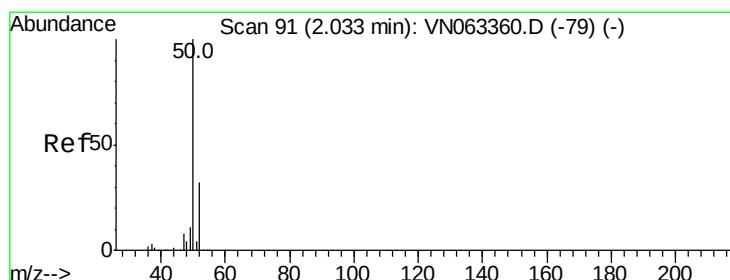
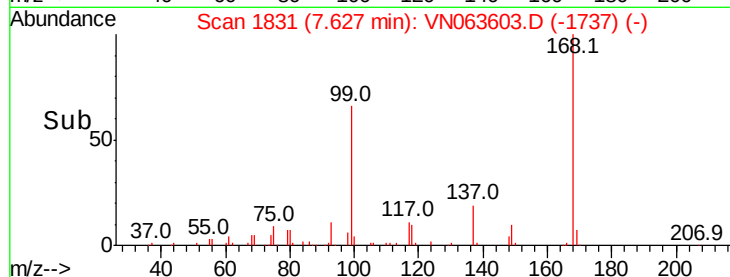
40000

20000

0

Time-->

7.50 7.60 7.70



#3

Chloromethane

Concen: 0.758 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063603.D

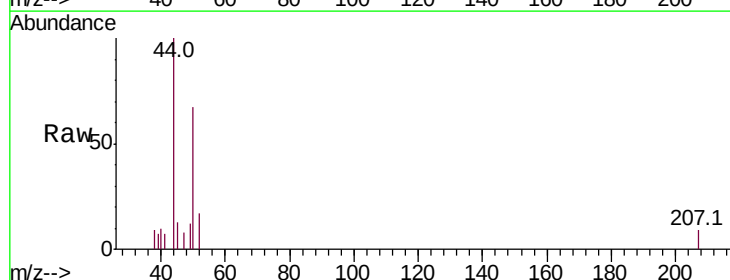
Acq: 23 Sep 2020 20:54

Tgt Ion: 50 Resp: 2253

Ion Ratio Lower Upper

50 100

52 24.6 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

1500

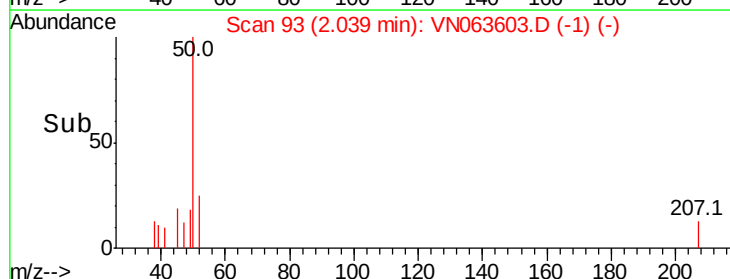
1000

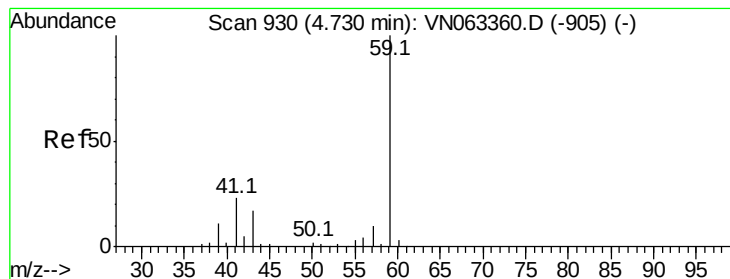
500

0

Time-->

2.00 2.05





#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 4.70 min Scan# 920

Delta R.T. -0.03 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

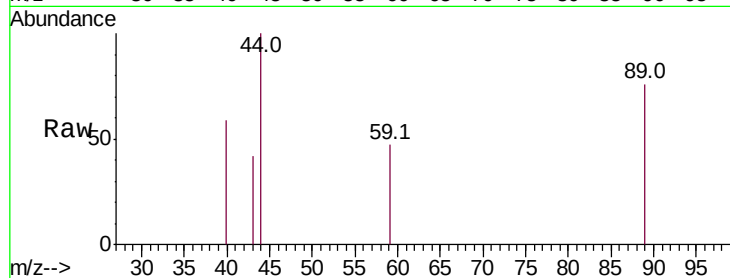
RE104D2-20200917

Tot Ion: 59 Resp: 103

Ion Ratio Lower Upper

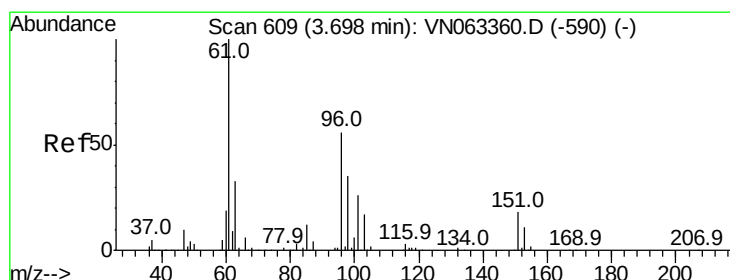
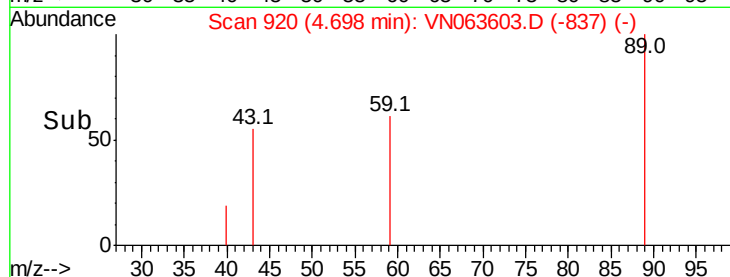
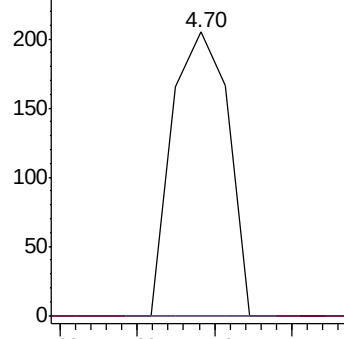
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#12

1,1-Dichloroethene

Concen: 1.944 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

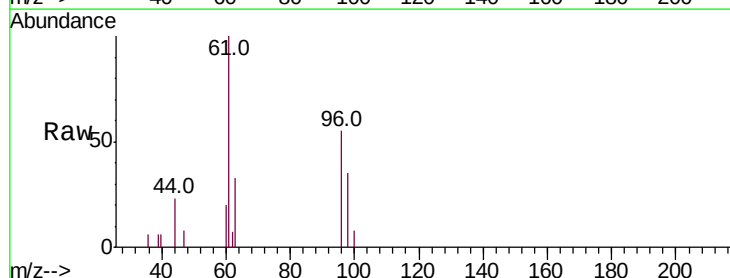
Tgt Ion: 96 Resp: 4351

Ion Ratio Lower Upper

96 100

61 181.5 143.4 215.2

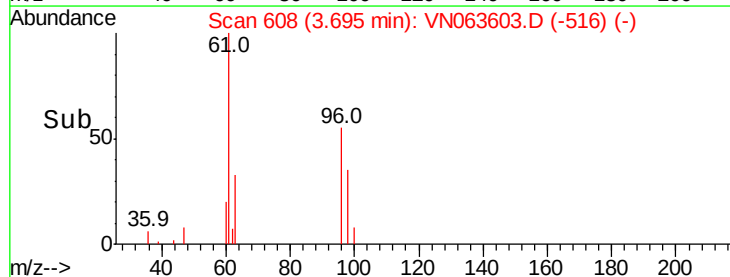
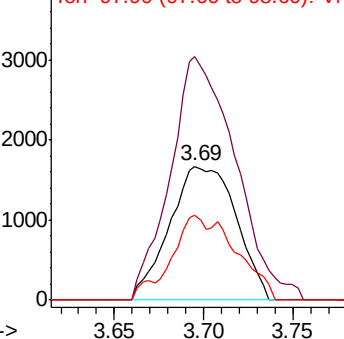
98 63.8 50.6 76.0

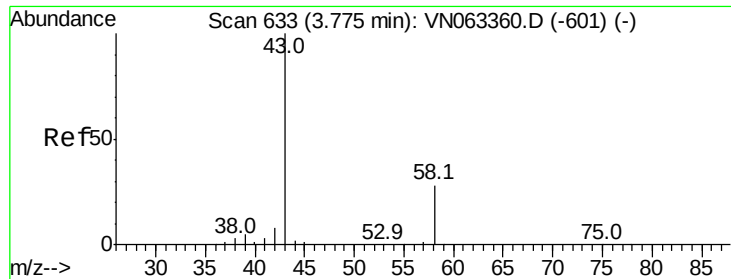


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 4.583 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

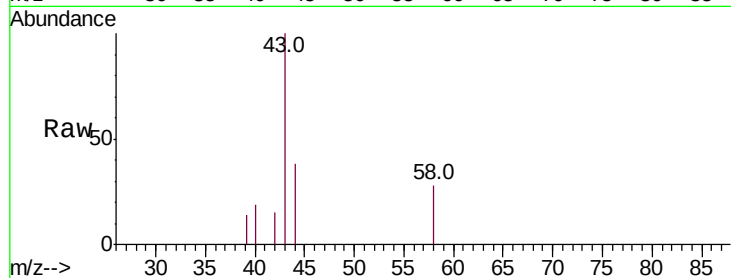
RE104D2-20200917

Tot Ion: 43 Resp: 4974

Ion Ratio Lower Upper

43 100

58 27.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

1500

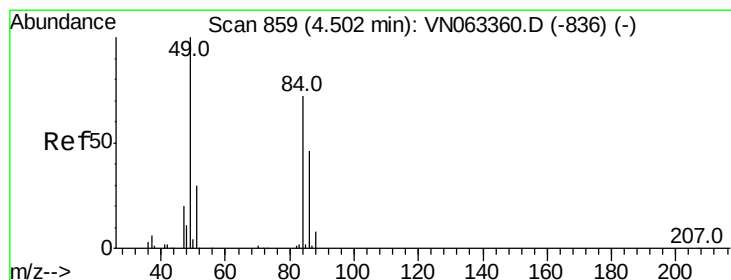
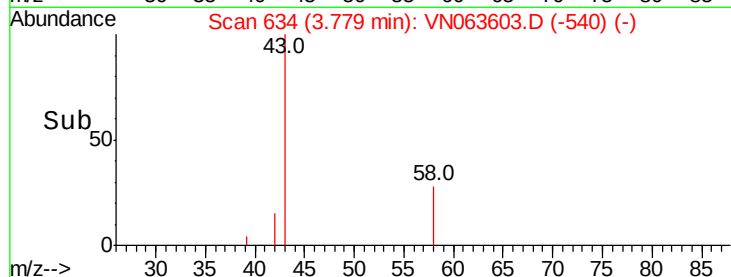
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#20

Methylene Chloride

Concen: 0.375 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Tgt Ion: 84 Resp: 1030

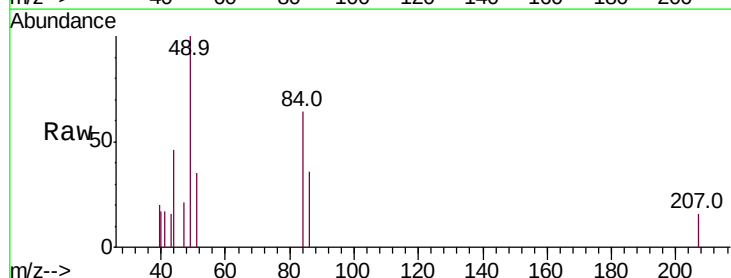
Ion Ratio Lower Upper

84 100

49 128.1 110.7 166.1

51 55.0 32.9 49.3#

86 57.3 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VN063360.D (-836) (-)

Ion 48.90 (48.60 to 49.60): VN063360.D (-836) (-)

Ion 50.90 (50.60 to 51.60): VN063360.D (-836) (-)

Ion 85.90 (85.60 to 86.60): VN063360.D (-836) (-)

1500

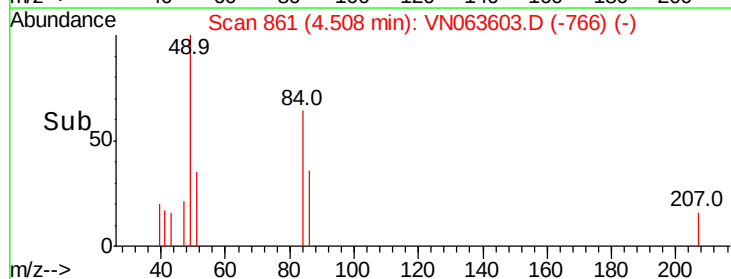
1000

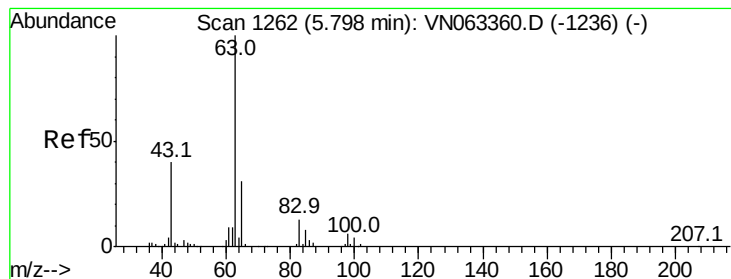
500

0

4.46 4.48 4.50 4.52

Time-->





#24

1,1-Dichloroethane

Concen: 2.361 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

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RE104D2-20200917

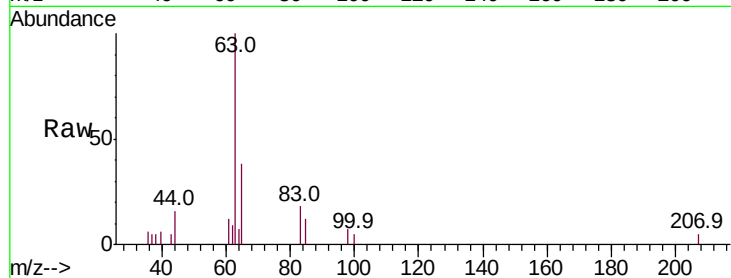
Tot Ion: 63 Resp: 11641

Ion Ratio Lower Upper

63 100

98 6.7 2.9 8.8

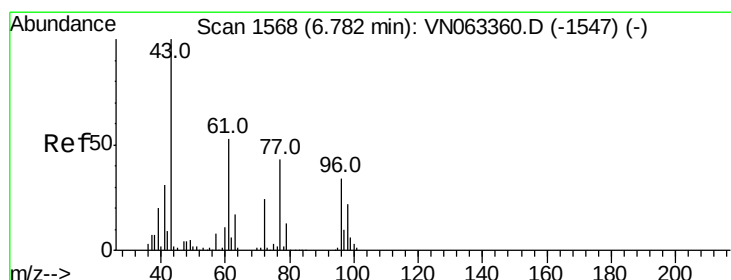
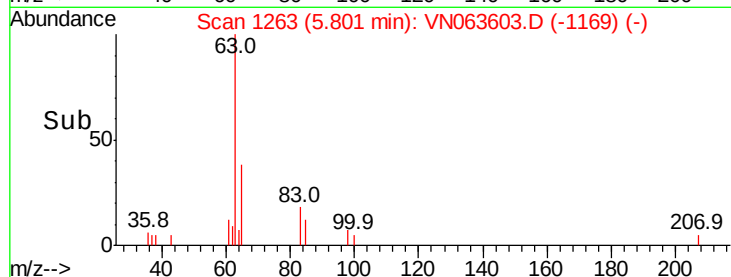
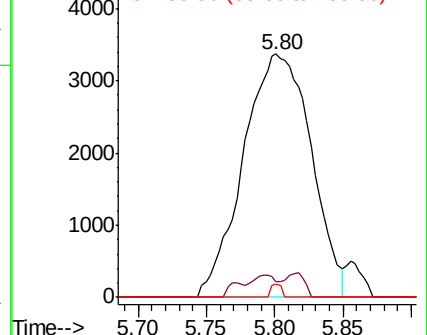
100 5.3 2.1 6.3



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



#25

2-Butanone

Concen: 0.255 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063603.D

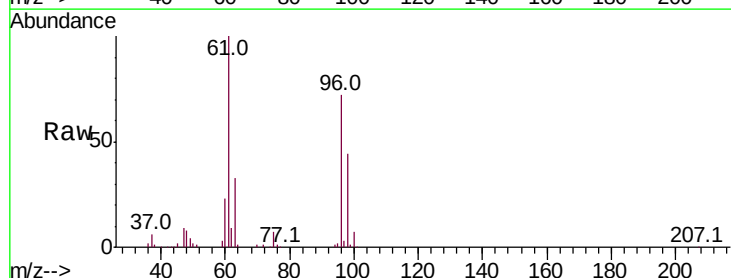
Acq: 23 Sep 2020 20:54

Tgt Ion: 43 Resp: 425

Ion Ratio Lower Upper

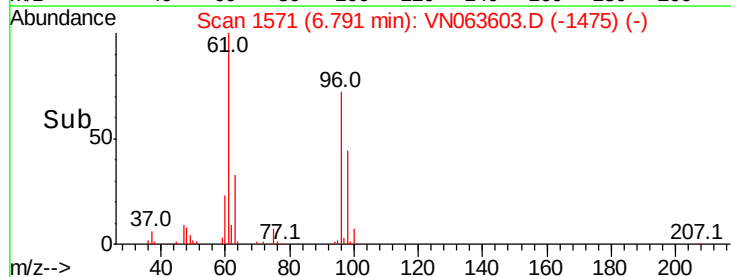
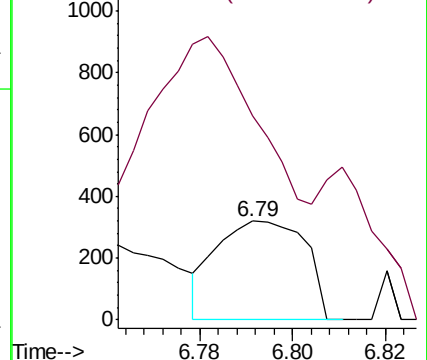
43 100

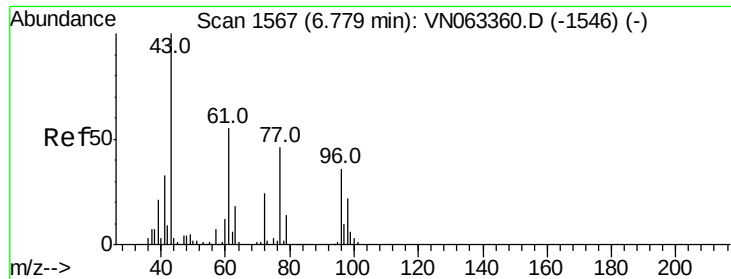
72 50.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 57.152 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

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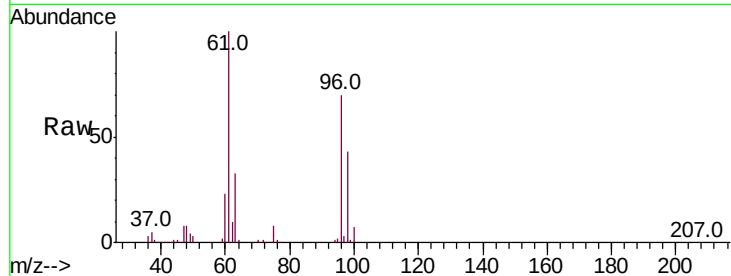
Tot Ion: 96 Resp: 160436

Ion Ratio Lower Upper

96 100

61 141.7 0.0 319.6

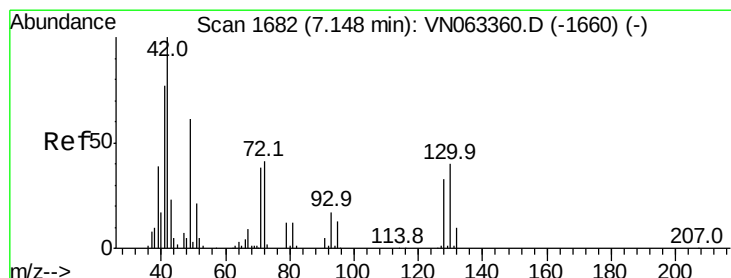
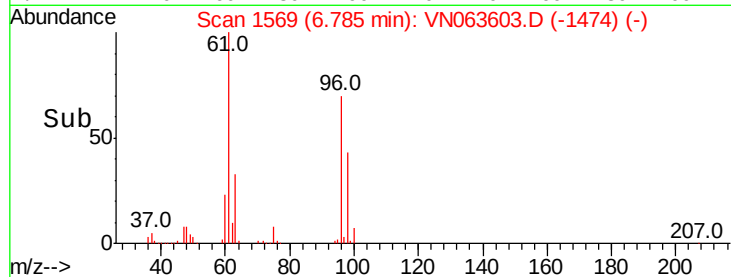
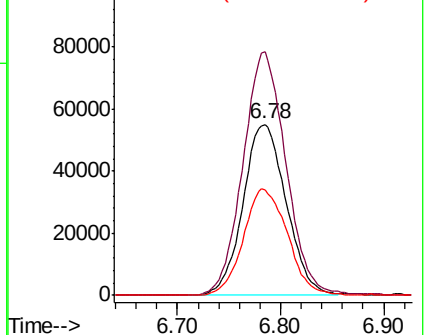
98 63.4 0.0 127.8



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



#28

Bromochloromethane

Concen: 1.316 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.18 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

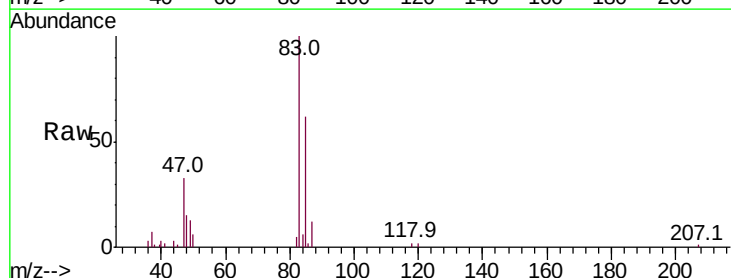
Tgt Ion: 49 Resp: 2995

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

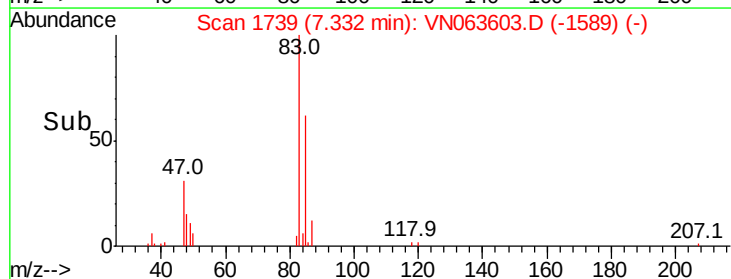
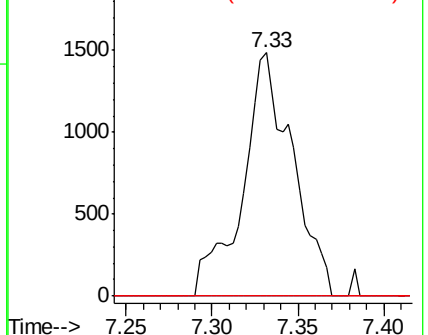
130 0.0 52.2 78.2#

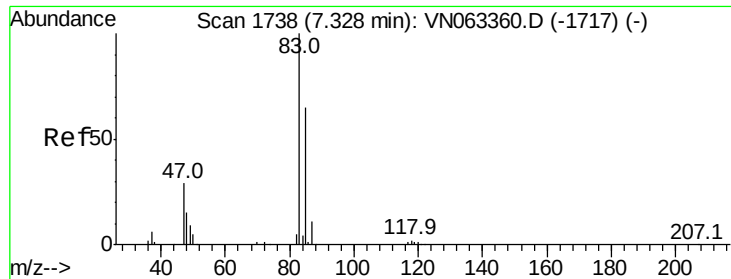


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#30

Chloroform

Concen: 6.098 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

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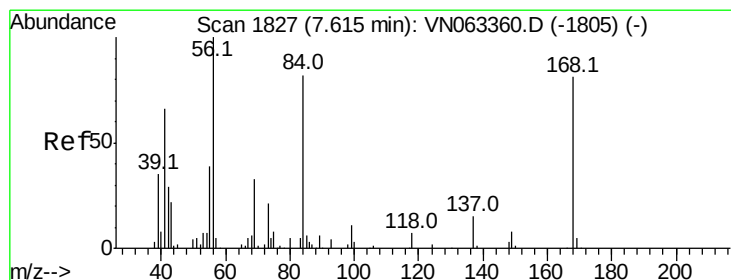
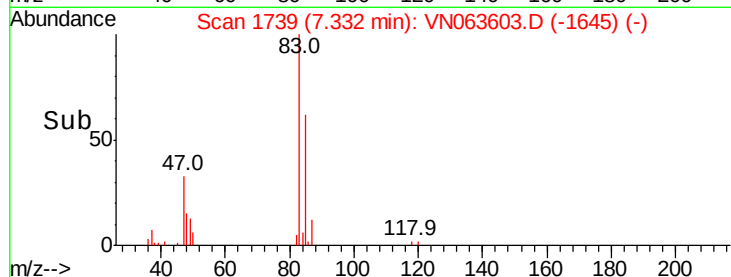
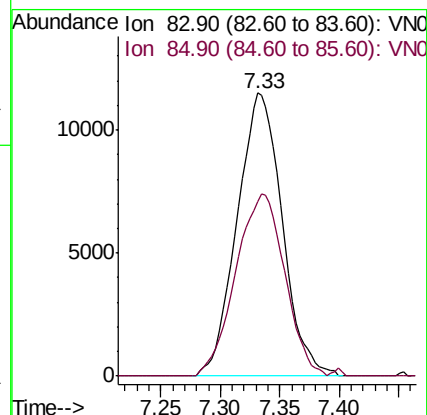
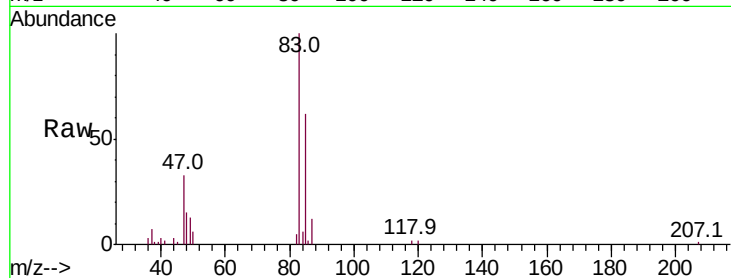
RE104D2-20200917

Tot Ion: 83 Resp: 30164

Ion Ratio Lower Upper

83 100

85 61.9 52.1 78.1



#31

Cyclohexane

Concen: 1.265 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

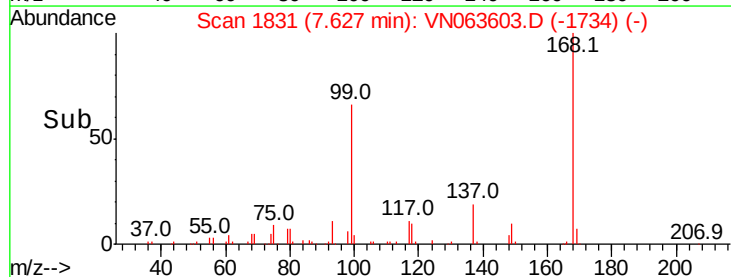
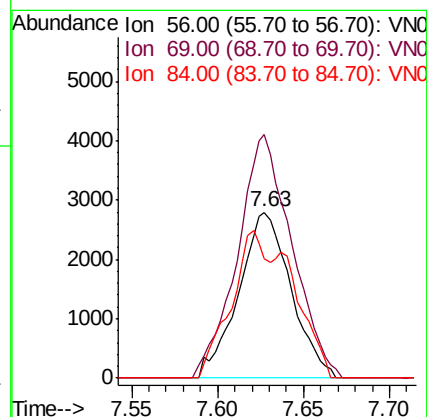
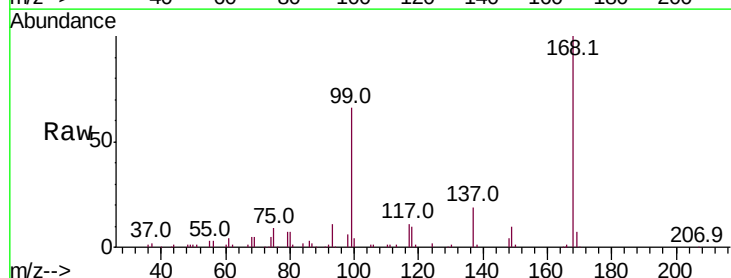
Tgt Ion: 56 Resp: 5898

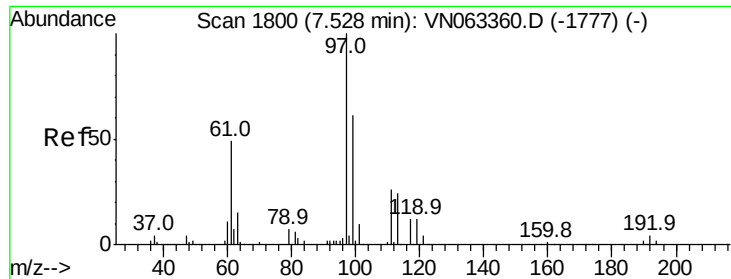
Ion Ratio Lower Upper

56 100

69 146.7 26.1 39.1#

84 71.8 65.4 98.2





#32

1,1,1-Trichloroethane

Concen: 0.301 ug/l

RT: 7.53 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN063603.D

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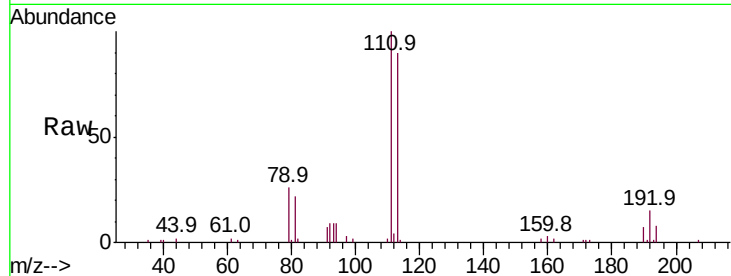
Tot Ion: 97 Resp: 1325

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0#

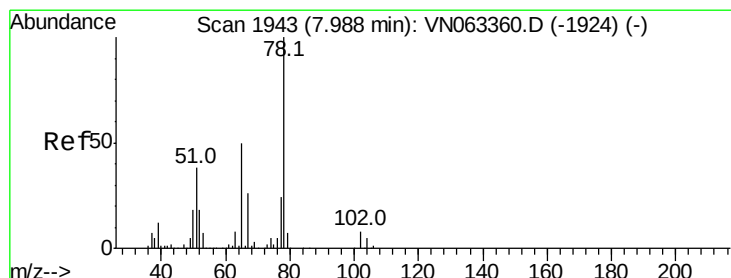
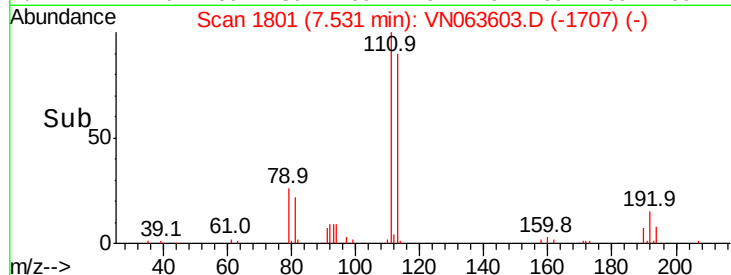
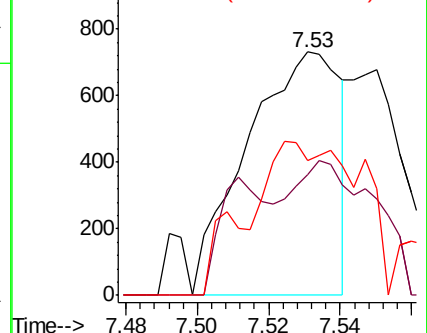
61 62.9 39.2 58.8#



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: 50.578 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063603.D

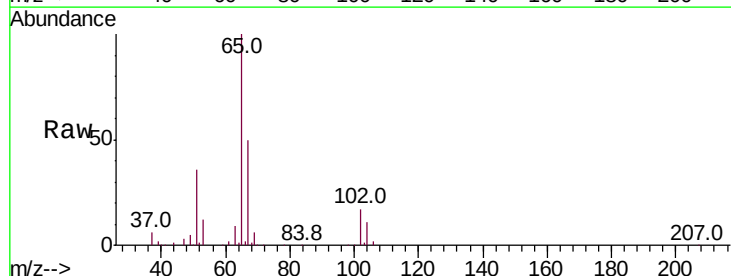
Acq: 23 Sep 2020 20:54

Tgt Ion: 65 Resp: 170788

Ion Ratio Lower Upper

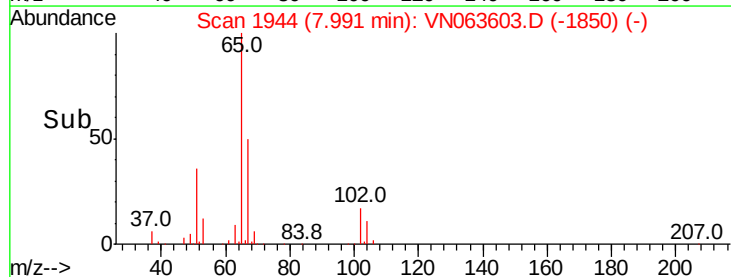
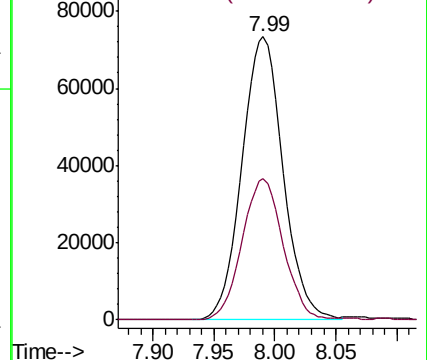
65 100

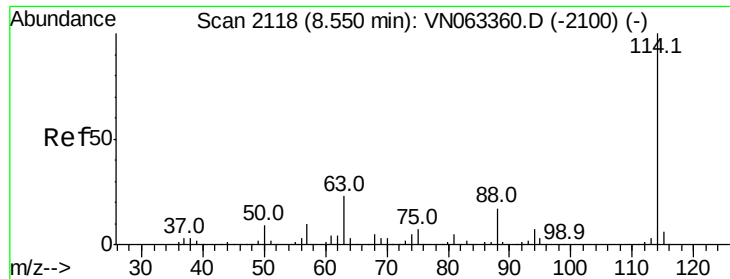
67 49.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

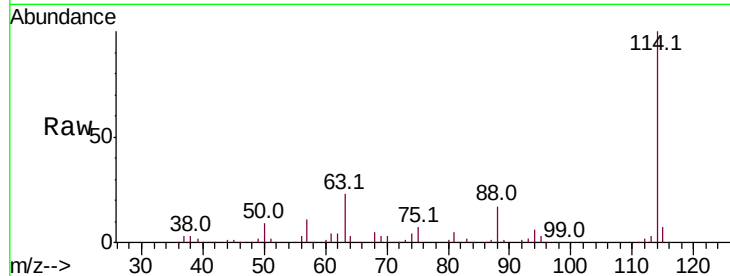




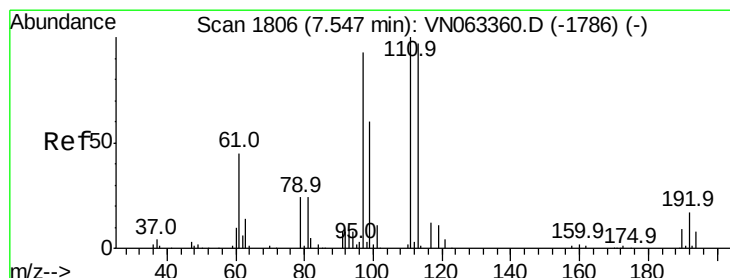
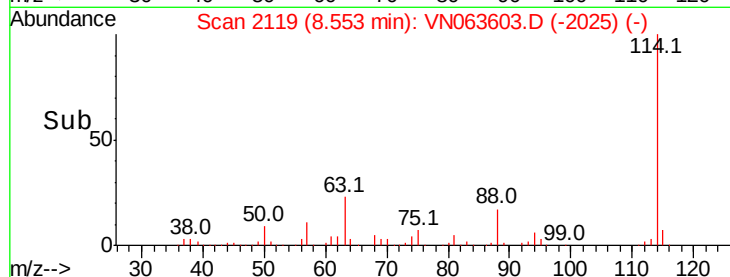
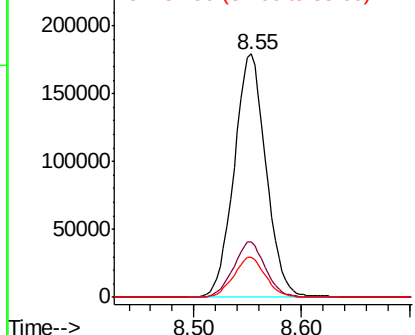
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20200917

Tot Ion:114 Resp: 370052
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.4
 88 16.7 0.0 33.2

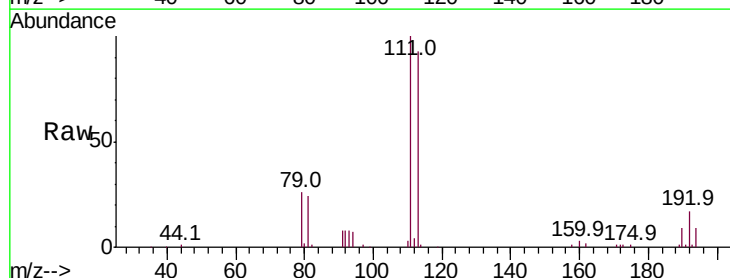


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

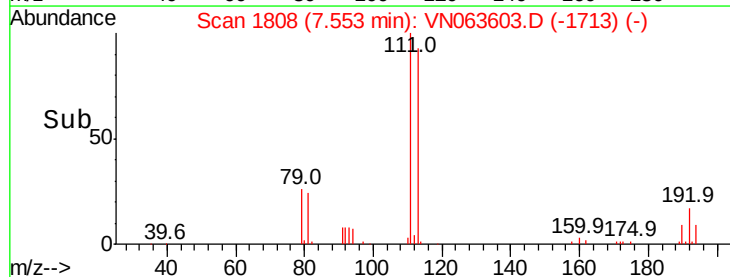
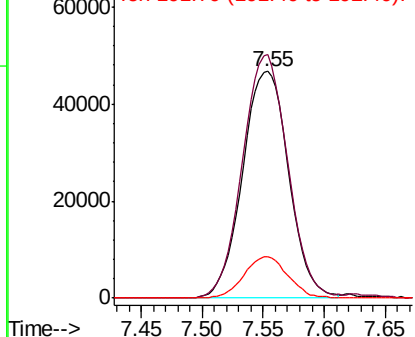


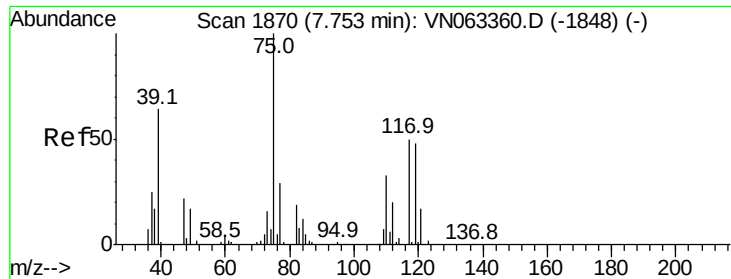
#35
 Dibromofluoromethane
 Concen: 47.835 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

Tgt Ion:113 Resp: 122543
 Ion Ratio Lower Upper
 113 100
 111 105.4 82.9 124.3
 192 17.4 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: 4.752 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20200917

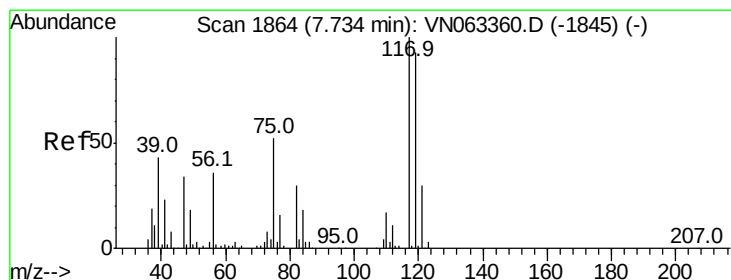
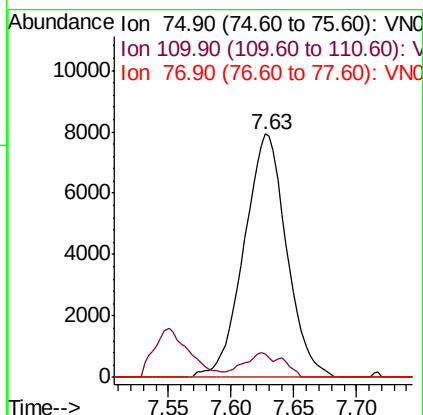
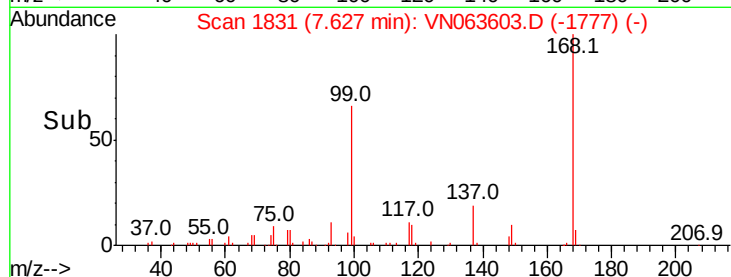
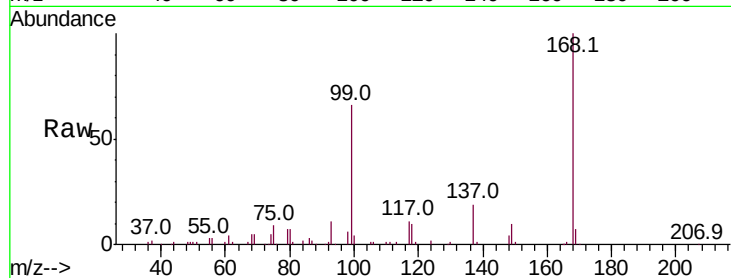
Tot Ion: 75 Resp: 18736

Ion Ratio Lower Upper

75 100

110 4.2 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.521 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

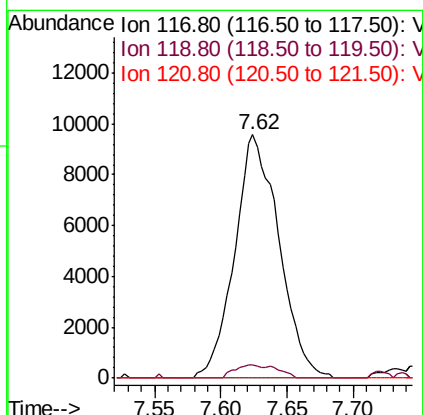
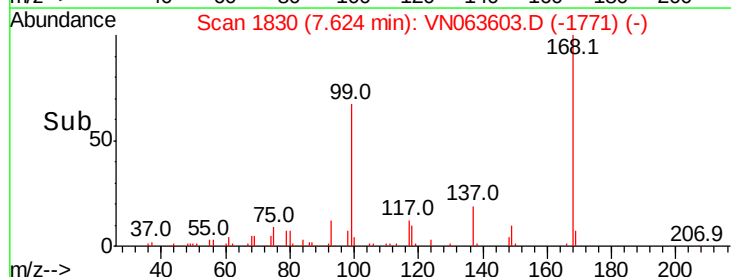
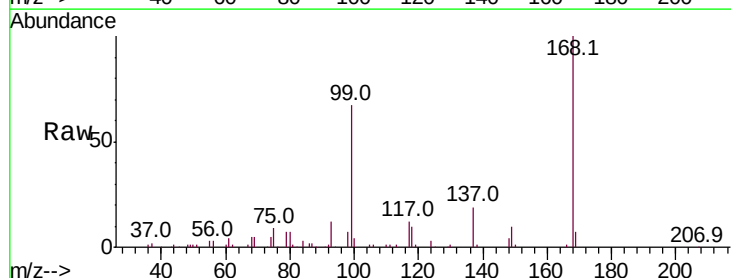
Tgt Ion: 117 Resp: 22219

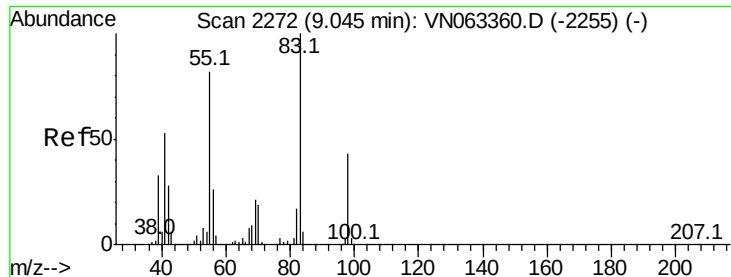
Ion Ratio Lower Upper

117 100

119 5.3 74.5 111.7#

121 0.0 24.1 36.1#

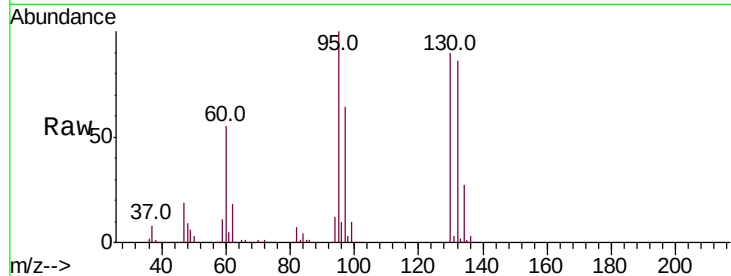




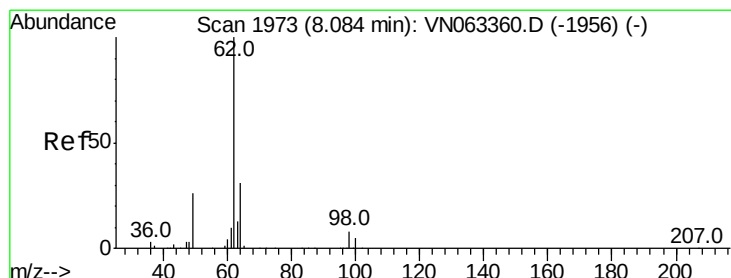
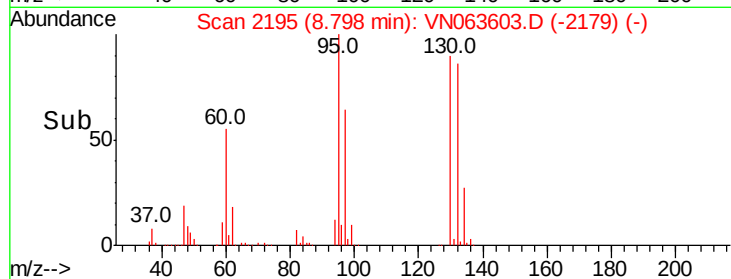
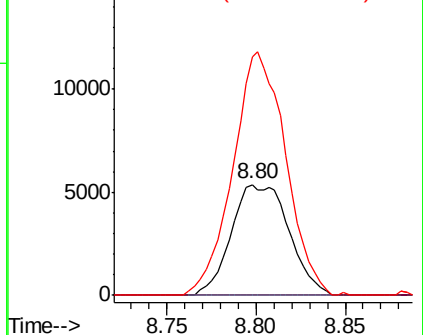
#39
Methylvlcyclohexane
Concen: 2.821 ug/l
RT: 8.80 min Scan# 2195
Delta R.T. -0.25 min
Lab File: VN063603.D
Acq: 23 Sep 2020 20:54

Instrument :
MSVOA_N
ClientSampleId :
RE104D2-20200917

Tot Ion: 83 Resp: 12069
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 216.1 34.2 51.4#

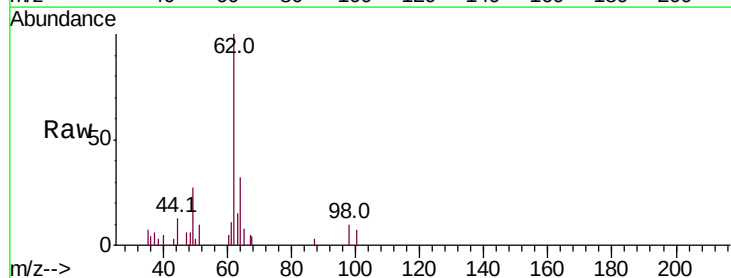


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

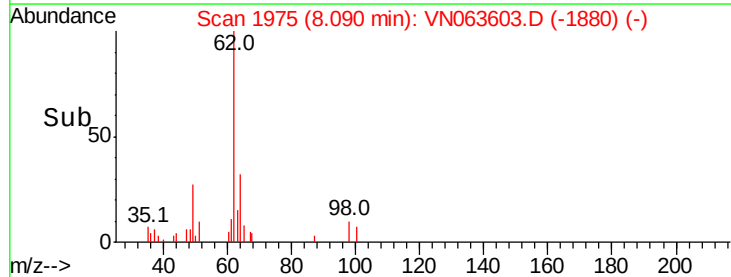
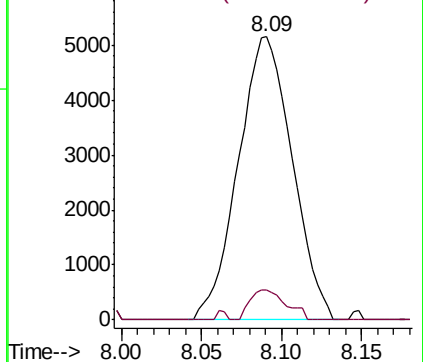


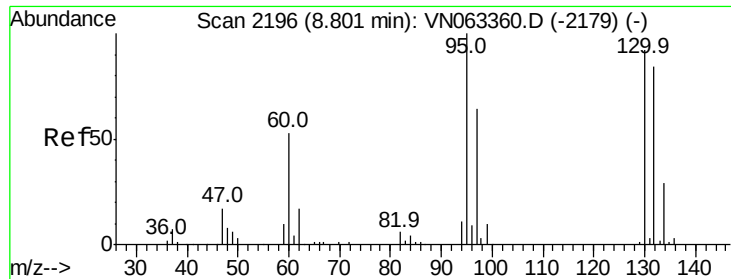
#42
1,2-Dichloroethane
Concen: 2.637 ug/l
RT: 8.09 min Scan# 1975
Delta R.T. 0.01 min
Lab File: VN063603.D
Acq: 23 Sep 2020 20:54

Tgt Ion: 62 Resp: 11933
Ion Ratio Lower Upper
62 100
98 7.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#44

Trichloroethene

Concen: 314.377 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

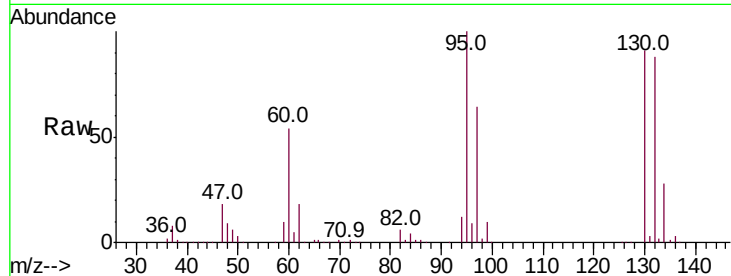
RE104D2-20200917

Tot Ion:130 Resp: 858131

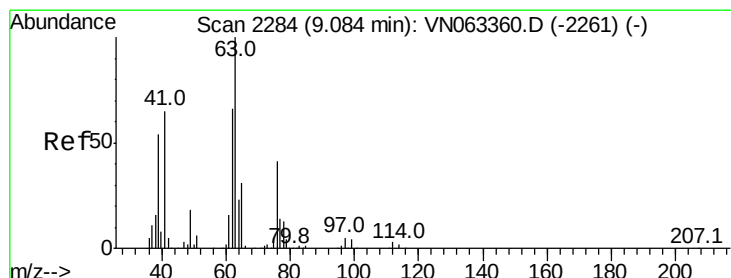
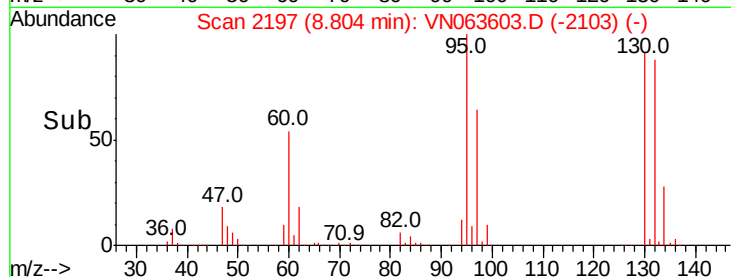
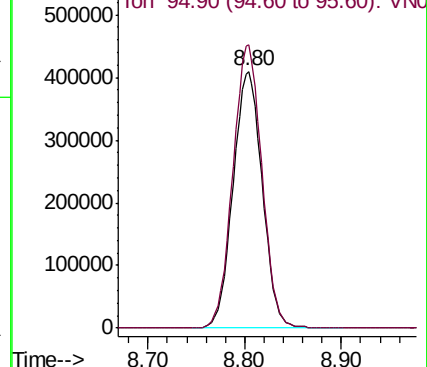
Ion Ratio Lower Upper

130 100

95 110.3 0.0 217.4



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



#45

1,2-Dichloropropane

Concen: 0.379 ug/l

RT: 9.09 min Scan# 2286

Delta R.T. 0.01 min

Lab File: VN063603.D

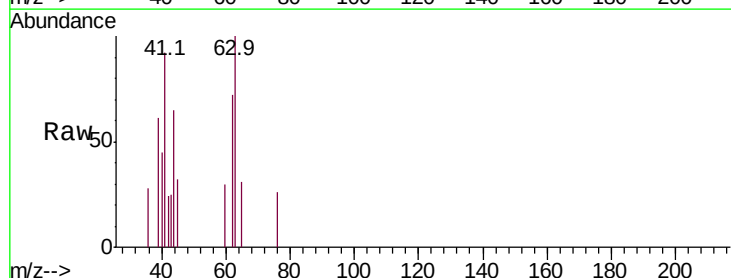
Acq: 23 Sep 2020 20:54

Tgt Ion: 63 Resp: 1163

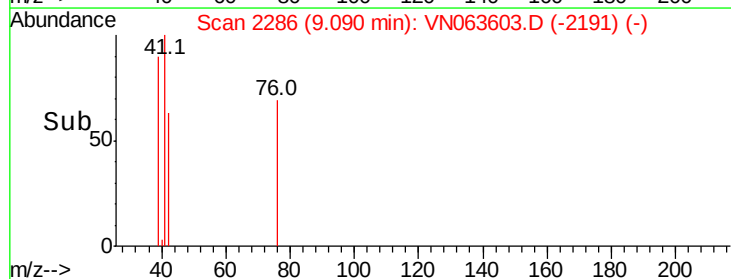
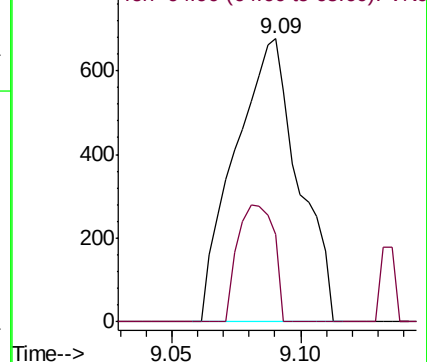
Ion Ratio Lower Upper

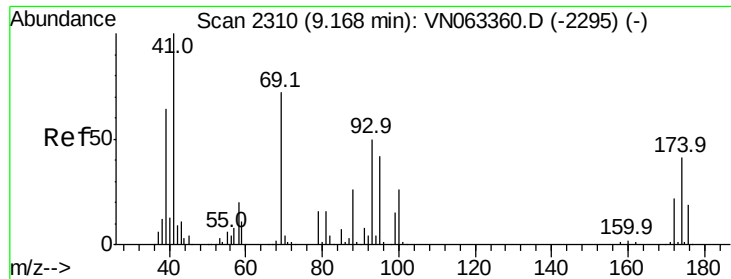
63 100

65 30.9 25.0 37.6



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





#49

1,4-Dioxane

Concen: 10.599 ug/l

RT: 9.18 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20200917

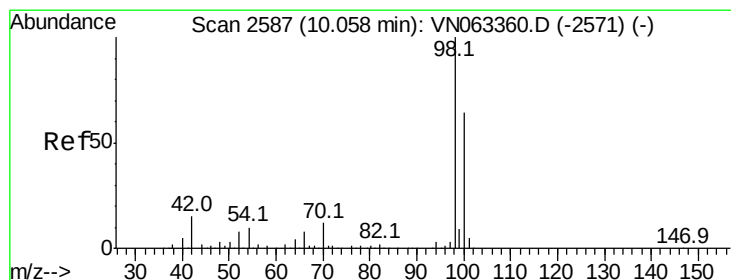
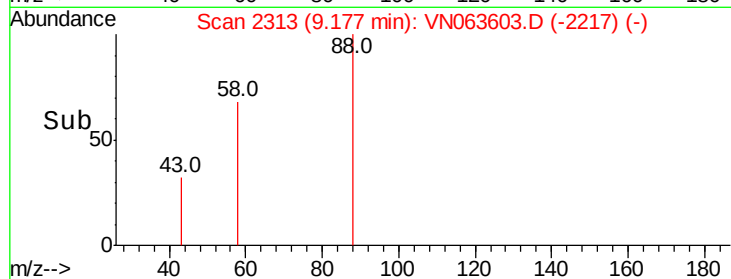
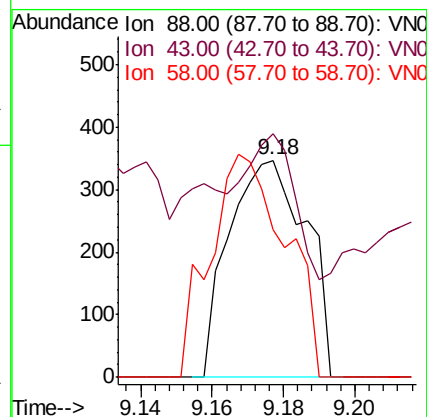
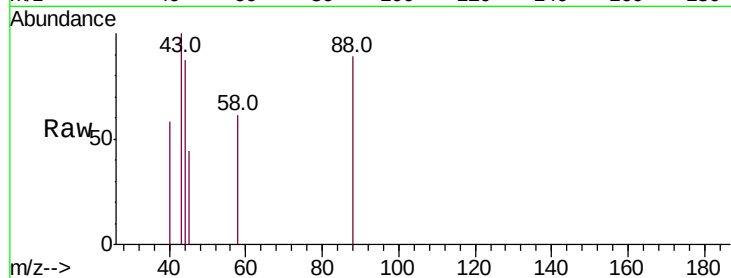
Tot Ion: 88 Resp: 517

Ion Ratio Lower Upper

88 100

43 37.7 32.6 49.0

58 100.8 60.0 90.0#



#50

Toluene-d8

Concen: 49.897 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063603.D

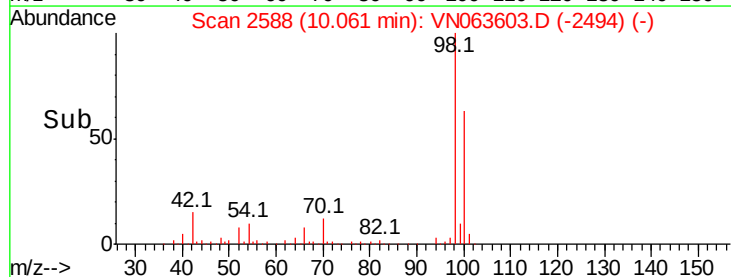
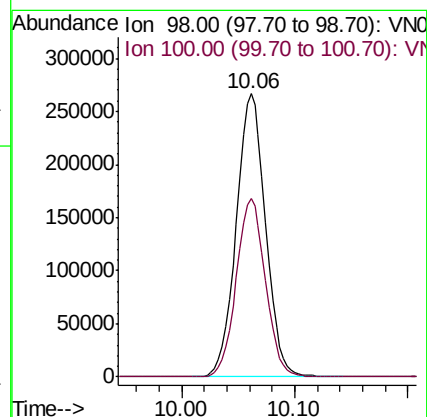
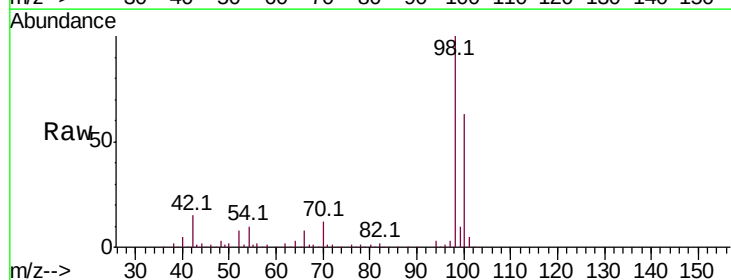
Acq: 23 Sep 2020 20:54

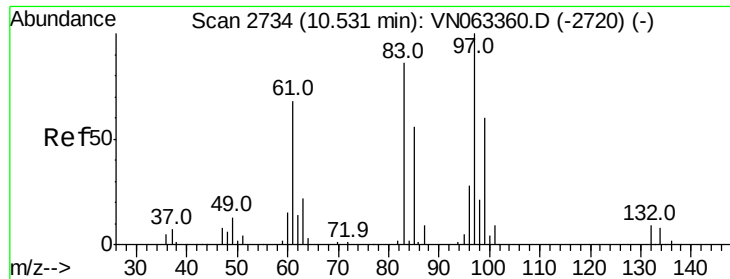
Tgt Ion: 98 Resp: 480653

Ion Ratio Lower Upper

98 100

100 62.8 50.7 76.1

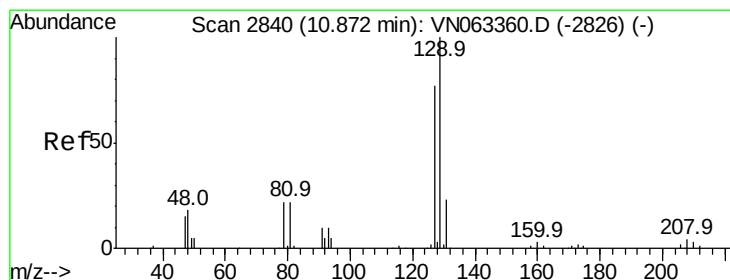
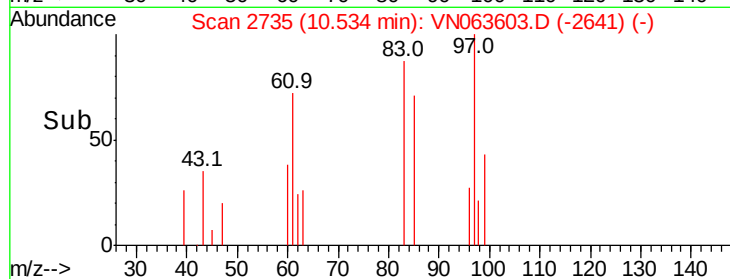
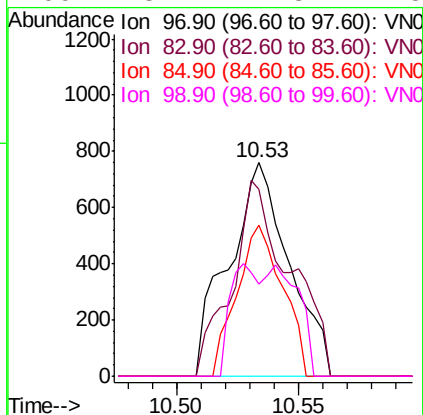
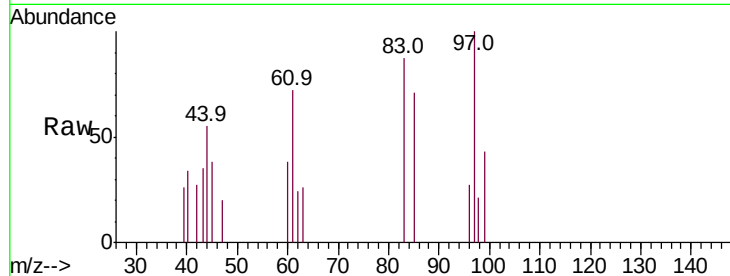




#55
 1,1,2-Trichloroethane
 Concen: 0.486 ug/l
 RT: 10.53 min Scan# 2735
 Delta R.T. 0.00 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

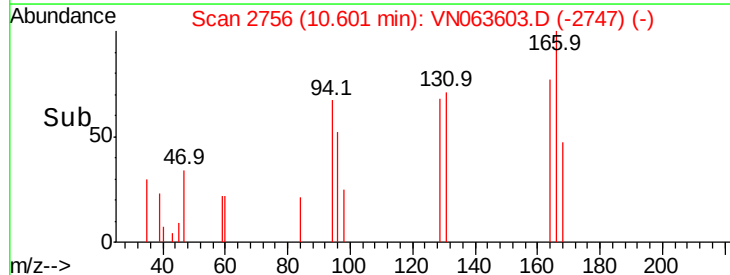
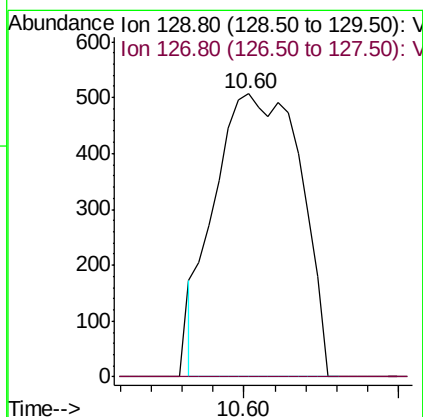
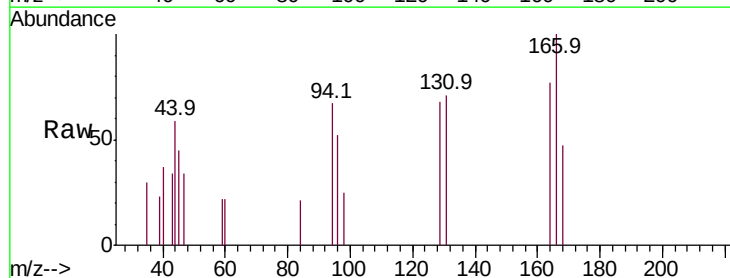
Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20200917

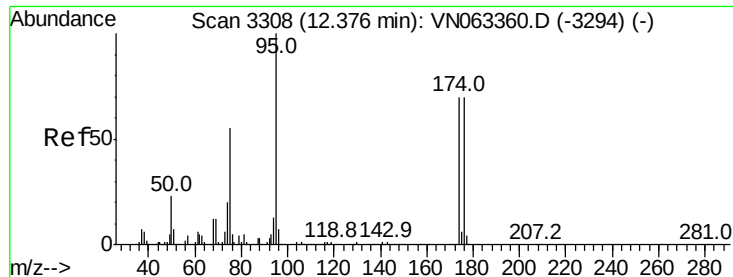
Tot Ion: 97 Resp: 1305
 Ion Ratio Lower Upper
 97 100
 83 87.2 68.9 103.3
 85 70.8 44.8 67.2#
 99 43.4 47.8 71.8#



#60
 Dibromochloromethane
 Concen: 0.322 ug/l
 RT: 10.60 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

Tgt Ion: 129 Resp: 978
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#

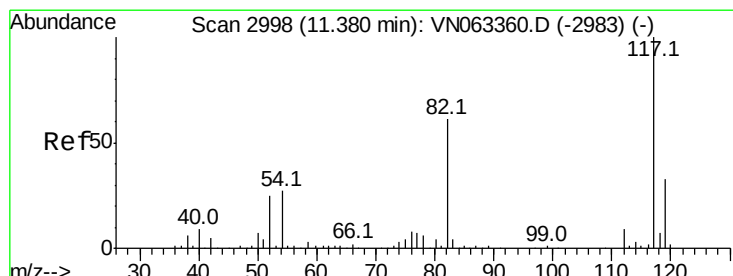
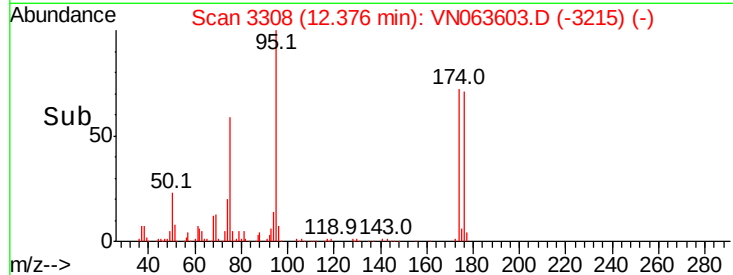
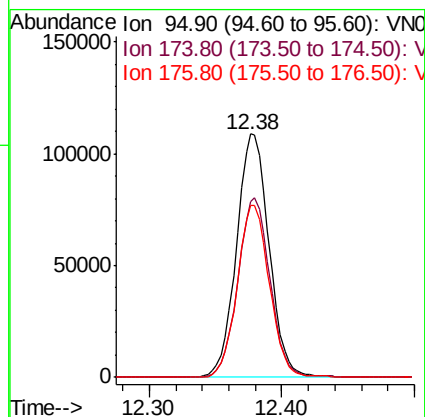
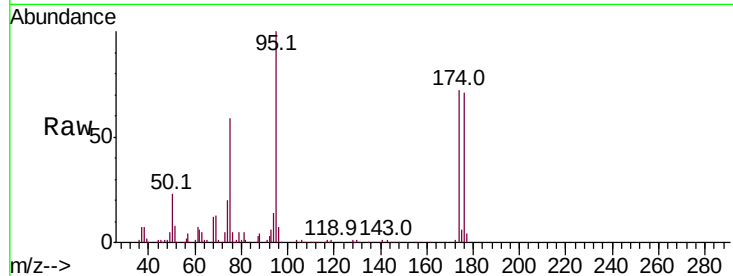




#62
4-Bromofluorobenzene
Concen: 52.583 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063603.D
Acq: 23 Sep 2020 20:54

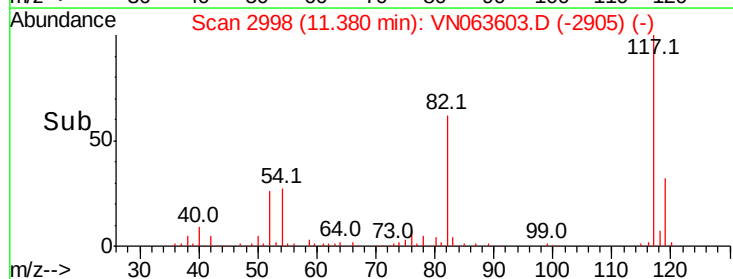
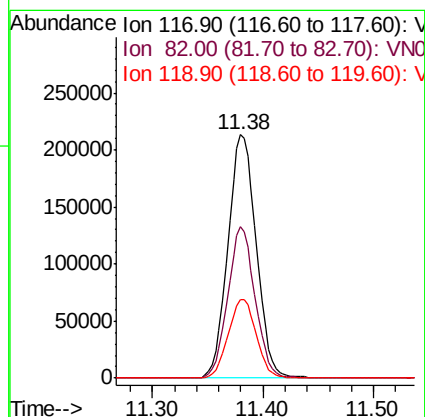
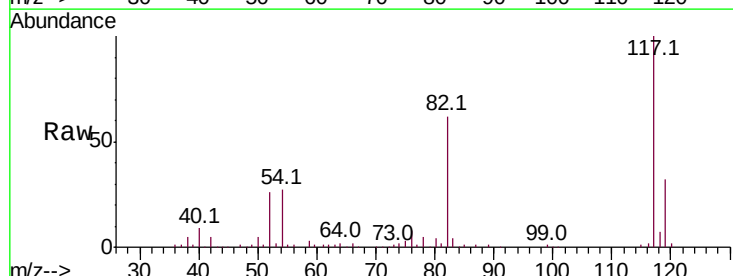
Instrument :
MSVOA_N
ClientSampleId :
RE104D2-20200917

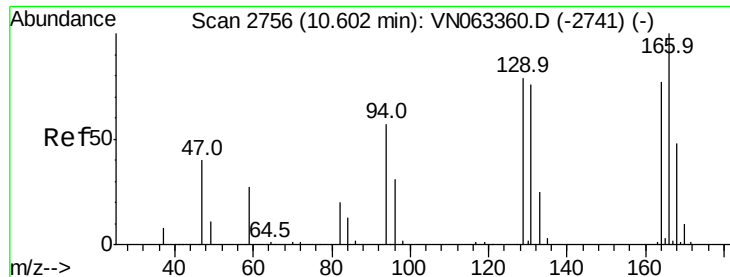
Tot Ion	95	Resp	185683
Ion Ratio	100		
Lower		0.0	140.8
Upper		0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063603.D
Acq: 23 Sep 2020 20:54

Tgt Ion	117	Resp	380190
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower		49.2	73.8
Upper		26.2	39.4





#64

Tetrachloroethene

Concen: 0.359 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063603.D

Acq: 23 Sep 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE104D2-20200917

Tot Ion:164 Resp: 930

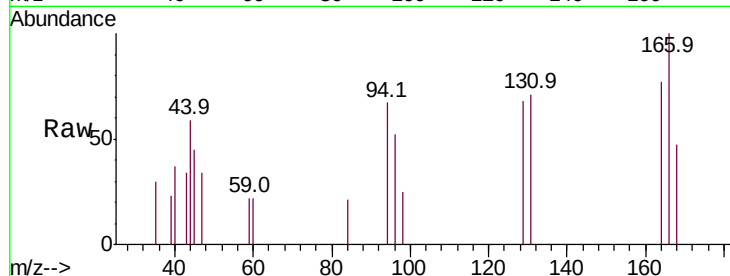
Ion Ratio Lower Upper

164 100

166 129.1 103.4 155.0

129 87.9 81.8 122.6

131 92.0 78.2 117.4

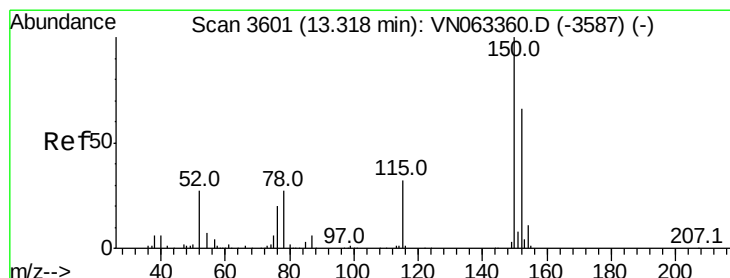
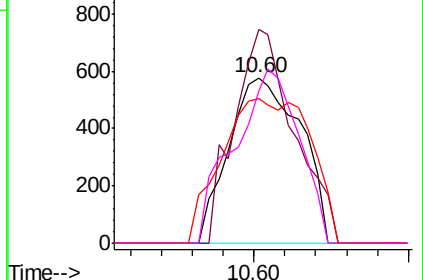
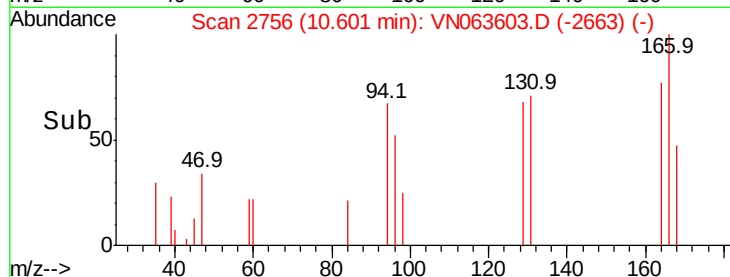


Abundance Ion 163.80 (163.50 to 164.50): V

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: VN063603.D

Acq: 23 Sep 2020 20:54

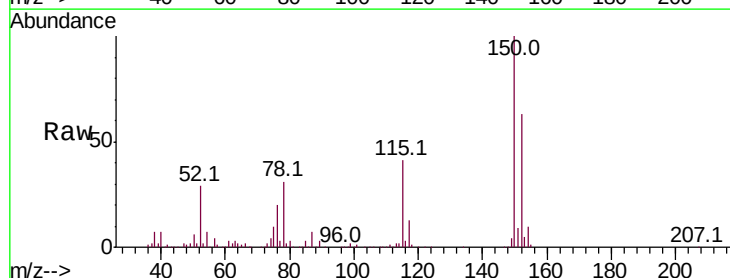
Tgt Ion:152 Resp: 156678

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

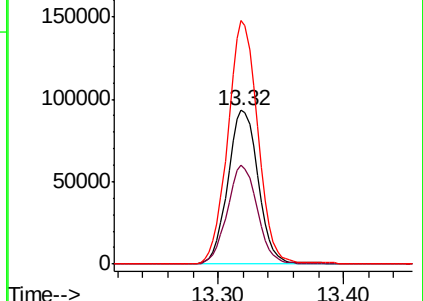
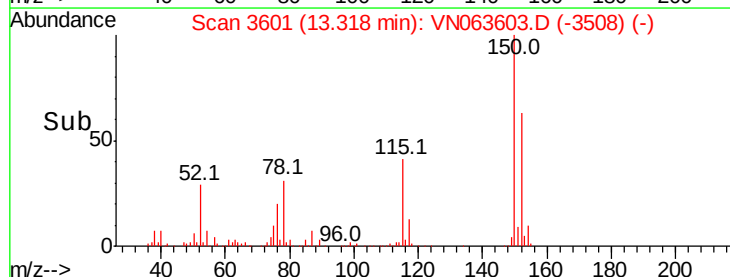
150 155.8 0.0 343.4

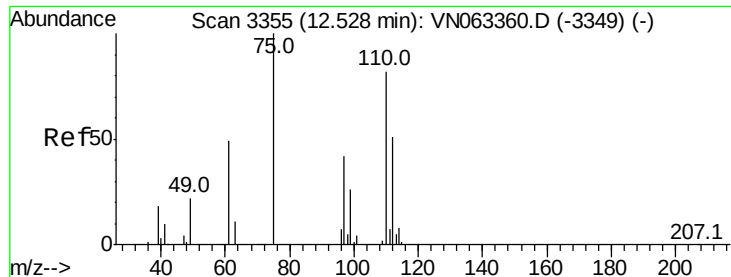


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

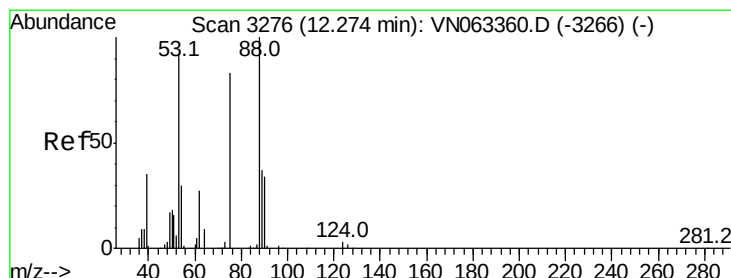
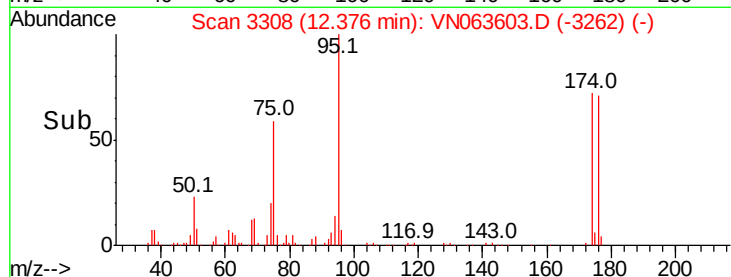
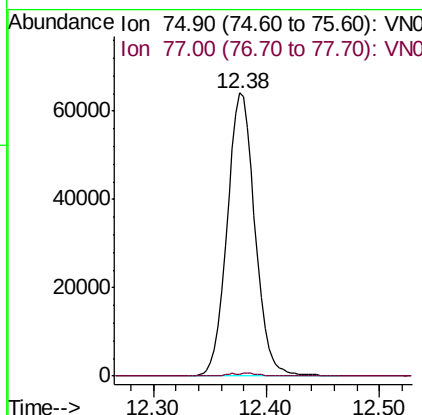
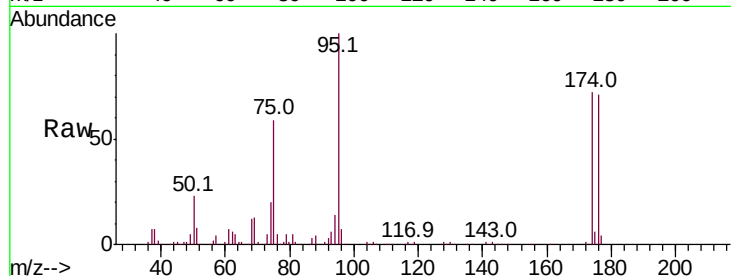




#76
 1,2,3-Trichloropropane
 Concen: 28.190 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D2-20200917

Tot Ion: 75 Resp: 109321
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.286 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063603.D
 Acq: 23 Sep 2020 20:54

Tgt Ion: 75 Resp: 109321
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

