

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063602.D
 Acq On : 23 Sep 2020 20:30
 Operator : JC/MD
 Sample : L4083-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D1-20200917

Quant Time: Sep 24 02:38:08 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	200682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	374048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	390660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161178	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	175241	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
35) Dibromofluoromethane	7.55	113	125404	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
50) Toluene-d8	10.06	98	487592	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
62) 4-Bromofluorobenzene	12.38	95	188443	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	

Target Compounds

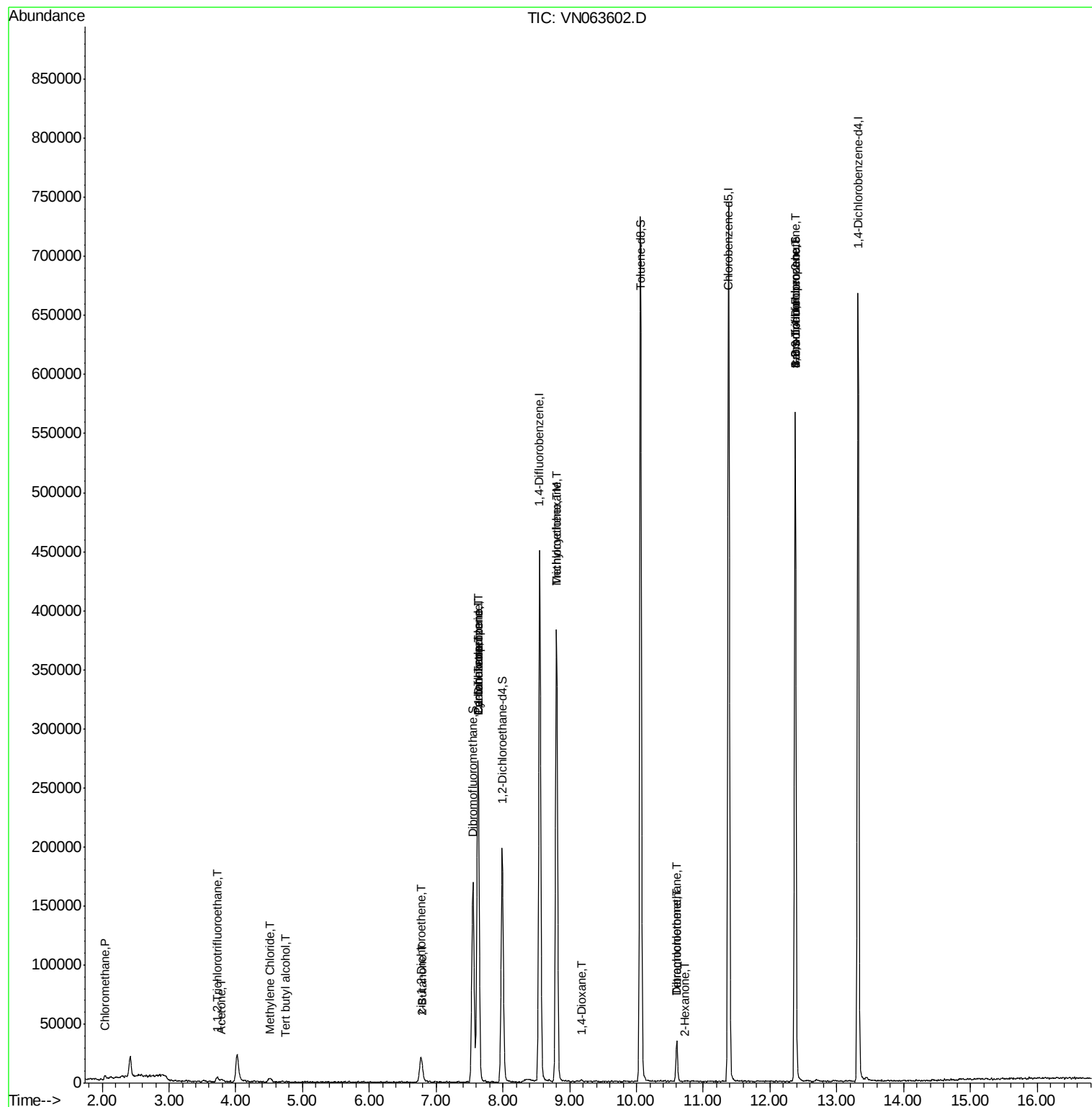
						Qvalue
3) Chloromethane	2.04	50	2675	0.889	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2213	0.990	ug/l #	61
11) Tert butyl alcohol	4.74	59	106	0.224	ug/l #	72
16) Acetone	3.78	43	4013	3.655	ug/l	96
20) Methylene Chloride	4.51	84	1963	0.706	ug/l #	89
25) 2-Butanone	6.79	43	600	0.355	ug/l #	51
27) cis-1,2-Dichloroethene	6.79	96	584	0.206	ug/l #	28
31) Cyclohexane	7.63	56	5427	1.150	ug/l #	38
36) 1,1-Dichloropropene	7.63	75	20000	5.019	ug/l #	51
38) Carbon Tetrachloride	7.63	117	23148	5.690	ug/l #	16
39) Methylcyclohexane	8.80	83	1749	0.404	ug/l #	1
44) Trichloroethene	8.80	130	128930	46.729	ug/l	99
49) 1,4-Dioxane	9.16	88	620	12.574	ug/l #	49
59) 2-Hexanone	10.73	43	581	0.205	ug/l #	28
60) Dibromochloromethane	10.60	129	6878	2.241	ug/l #	10
64) Tetrachloroethene	10.60	164	6887	2.589	ug/l	93
71) Bromoform	12.38	173	845	0.373	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	106513	26.699	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106513	73.199	ug/l #	7

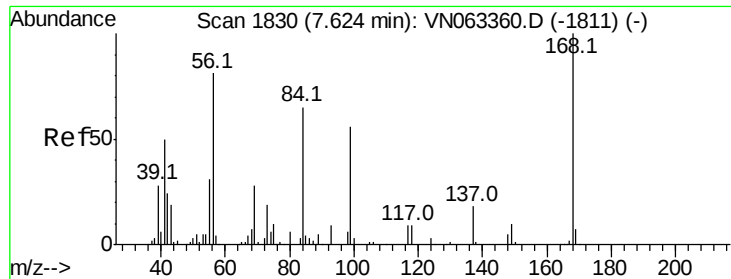
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 16 13:05:20 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

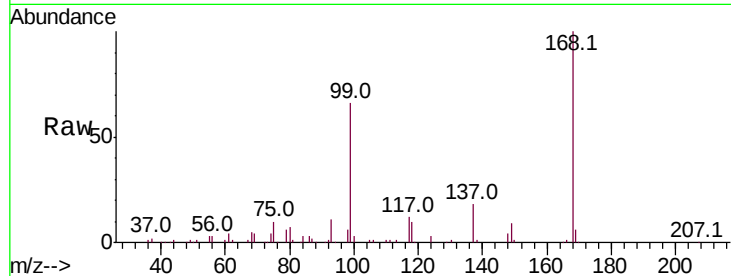
RE104D1-20200917

Tot Ion:168 Resp: 200682

Ion Ratio Lower Upper

168 100

99 65.5 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

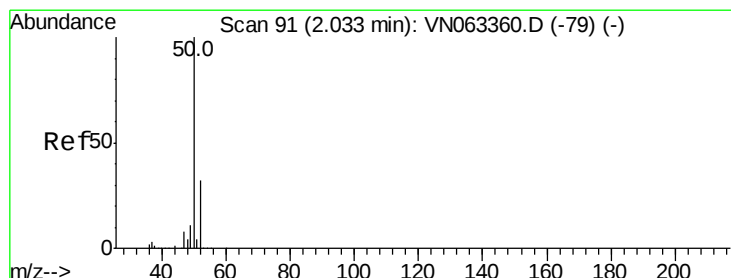
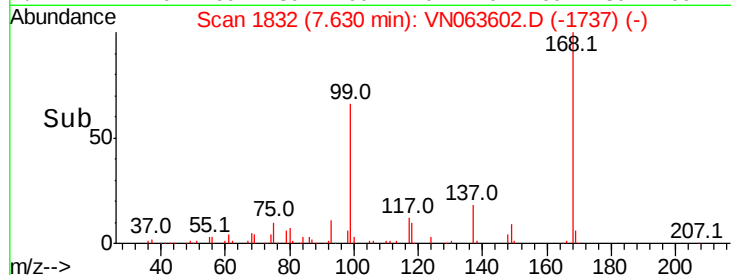
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.889 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063602.D

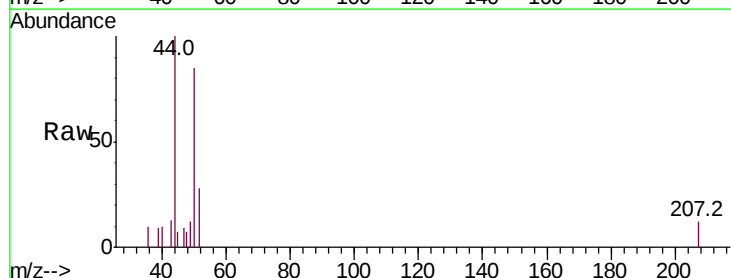
Acq: 23 Sep 2020 20:30

Tgt Ion: 50 Resp: 2675

Ion Ratio Lower Upper

50 100

52 32.6 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

2000

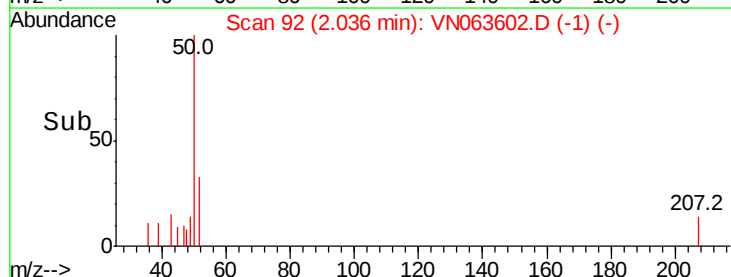
1500

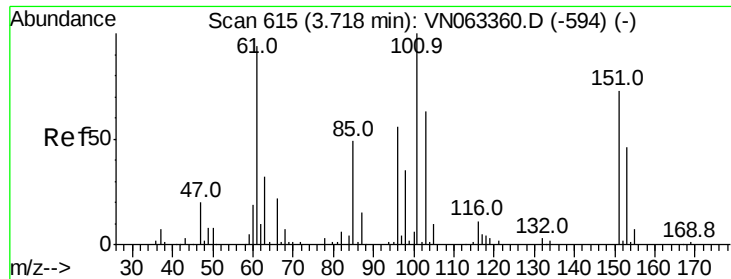
1000

500

0

Time--> 2.00 2.05





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.990 ug/l

RT: 3.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

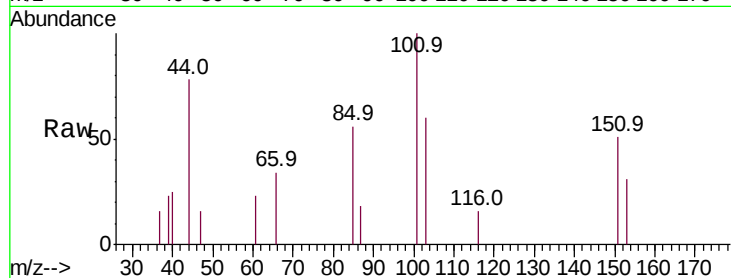
Tot Ion:101 Resp: 2213

Ion Ratio Lower Upper

101 100

85 28.0 37.7 56.5#

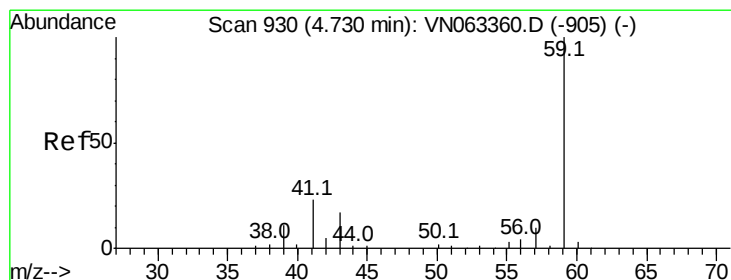
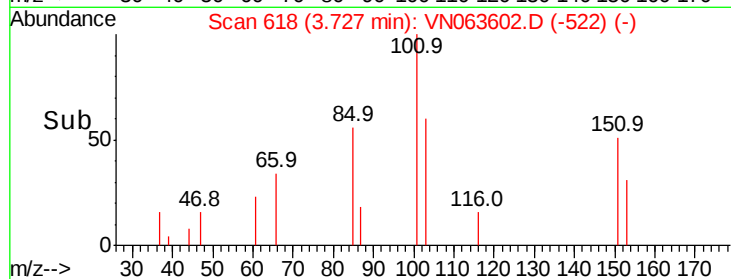
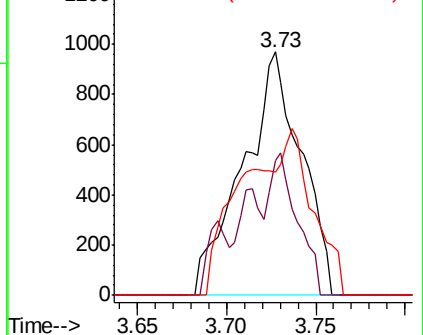
151 33.8 57.7 86.5#



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



#11

Tert butyl alcohol

Concen: 0.224 ug/l

RT: 4.74 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN063602.D

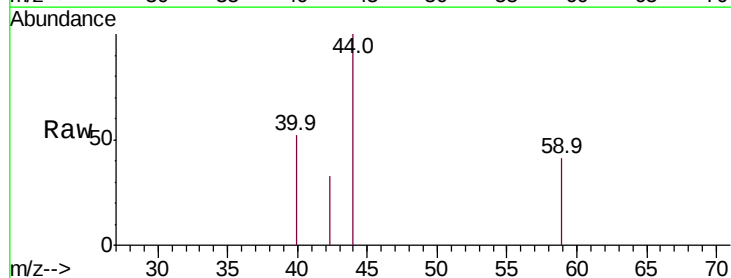
Acq: 23 Sep 2020 20:30

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

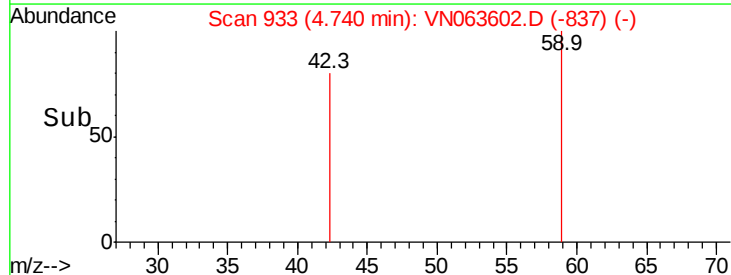
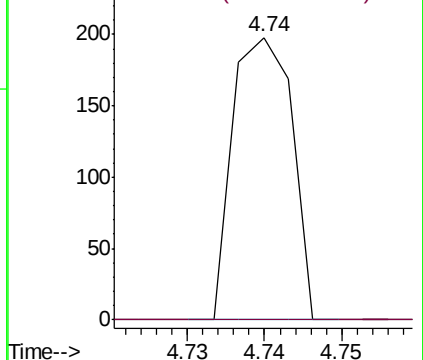
59 100

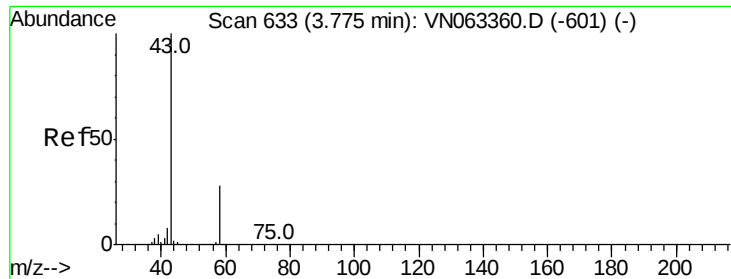
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

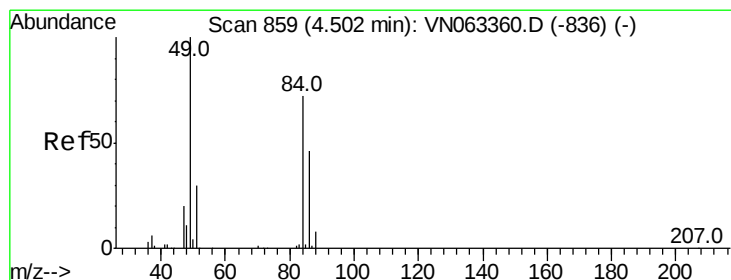
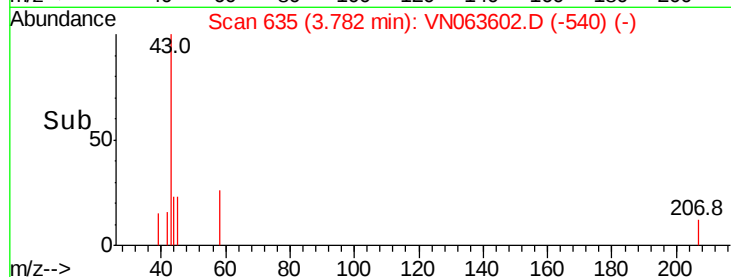
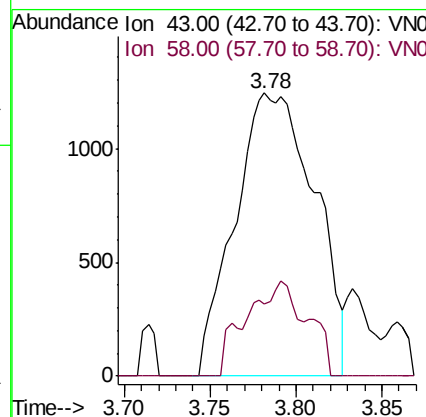
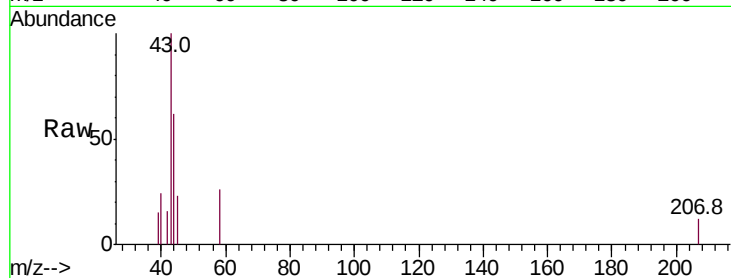




#16
Acetone
Concen: 3.655 ug/l
RT: 3.78 min Scan# 635
Delta R.T. 0.01 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

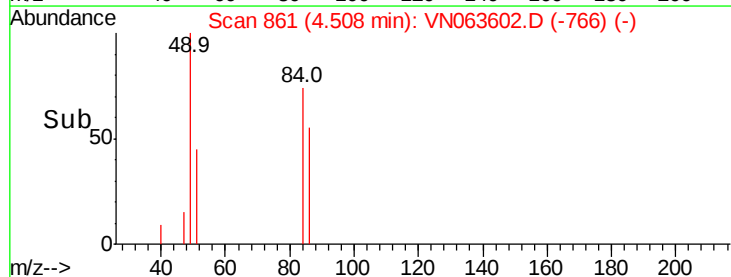
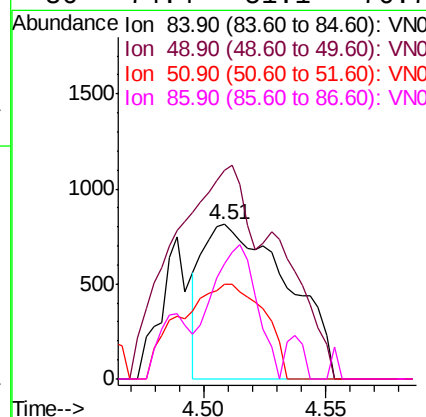
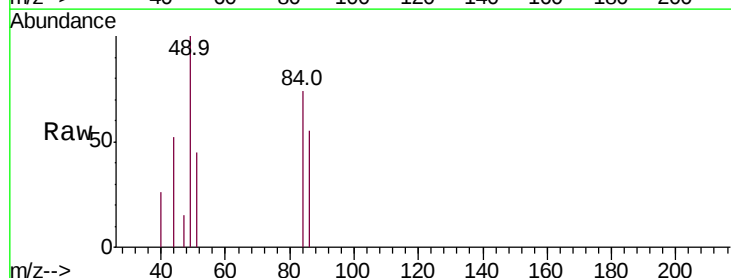
Instrument :
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RE104D1-20200917

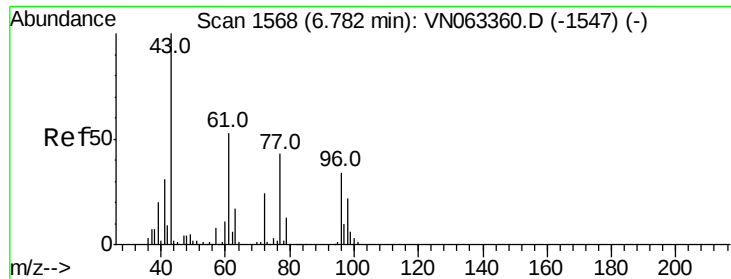
Tot Ion: 43 Resp: 4013
Ion Ratio Lower Upper
43 100
58 25.7 22.3 33.5



#20
Methylene Chloride
Concen: 0.706 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

Tgt Ion: 84 Resp: 1963
Ion Ratio Lower Upper
84 100
49 134.9 110.7 166.1
51 60.9 32.9 49.3#
86 74.4 51.1 76.7





#25

2-Butanone

Concen: 0.355 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

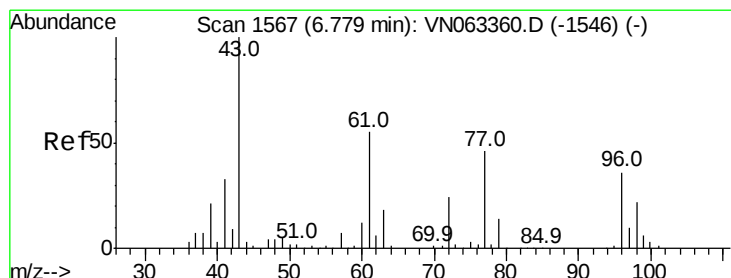
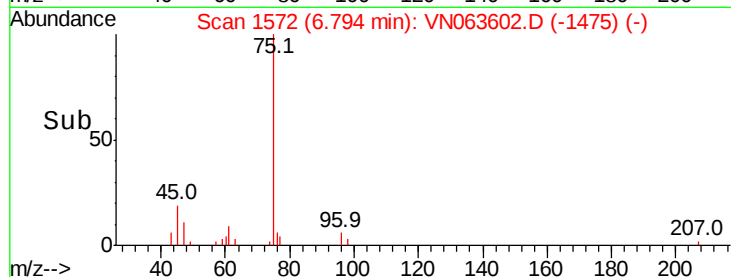
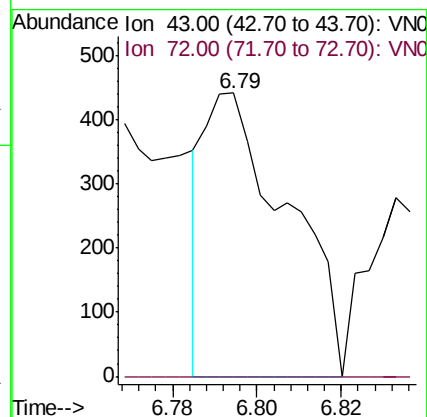
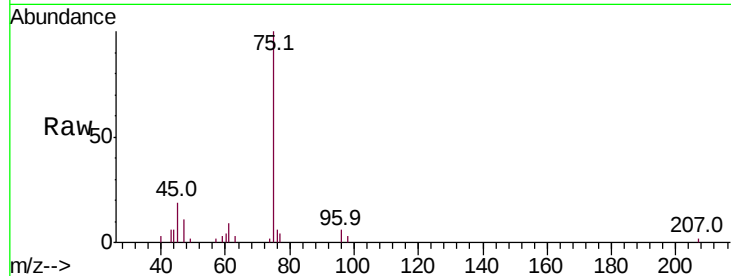
RE104D1-20200917

Tot Ion: 43 Resp: 600

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#



#27

cis-1,2-Dichloroethene

Concen: 0.206 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

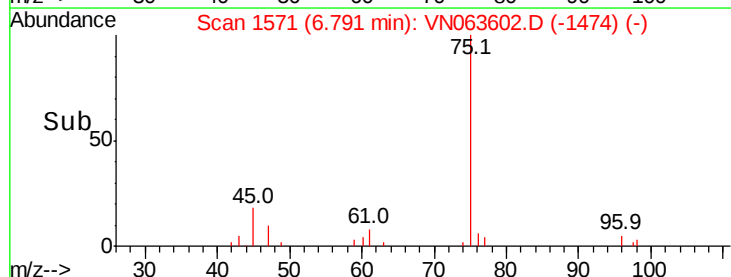
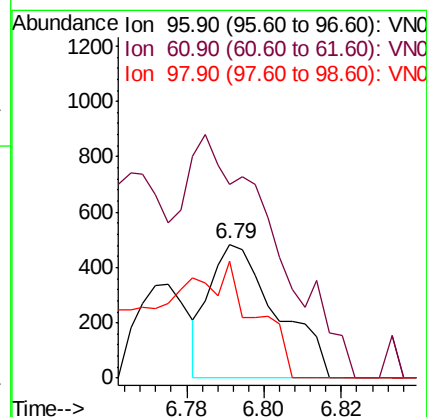
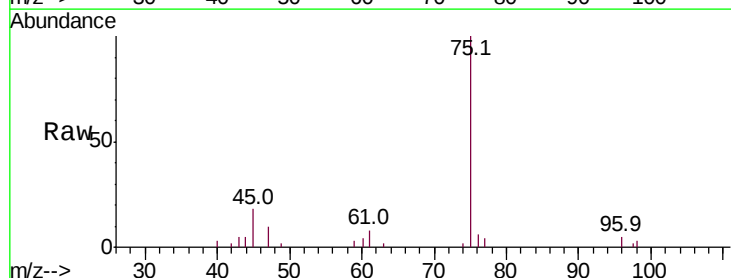
Tgt Ion: 96 Resp: 584

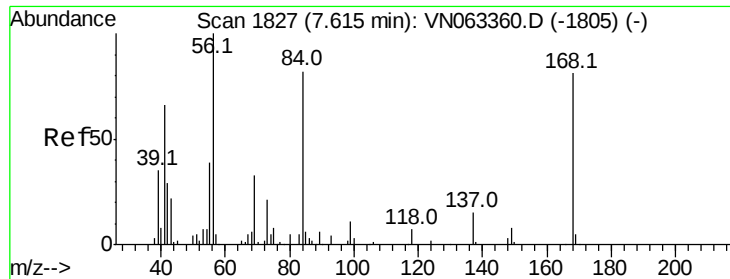
Ion Ratio Lower Upper

96 100

61 246.2 0.0 319.6

98 133.9 0.0 127.8#

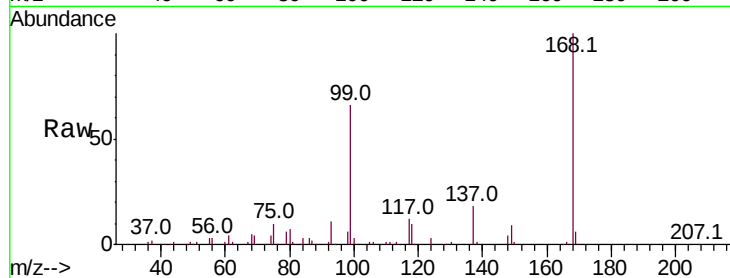




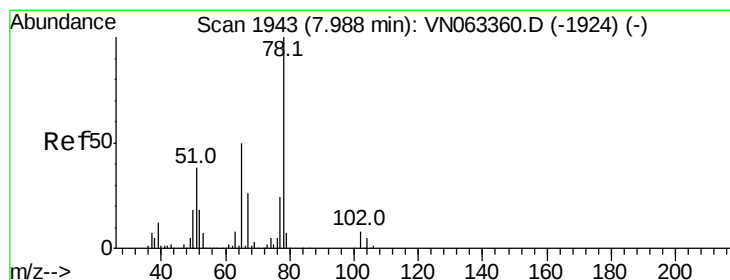
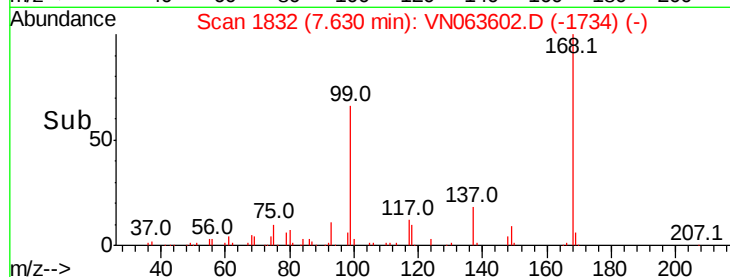
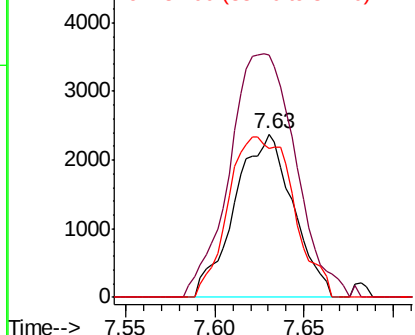
#31
Cyclohexane
Concen: 1.150 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

Instrument :
MSVOA_N
ClientSampleId :
RE104D1-20200917

Tot Ion: 56 Resp: 5427
Ion Ratio Lower Upper
56 100
69 141.1 26.1 39.1#
84 91.0 65.4 98.2

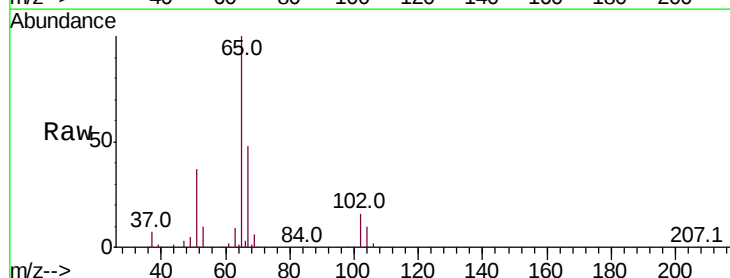


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

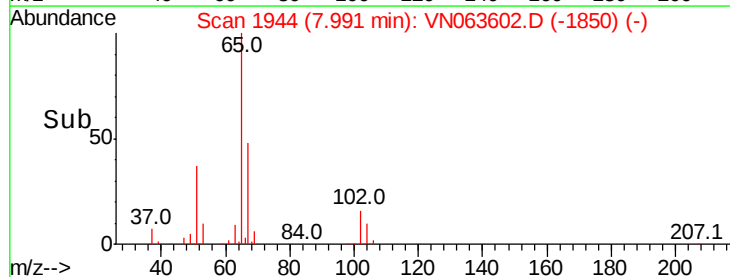
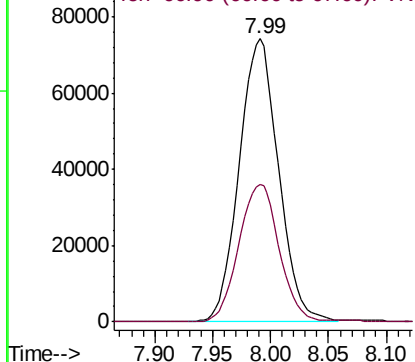


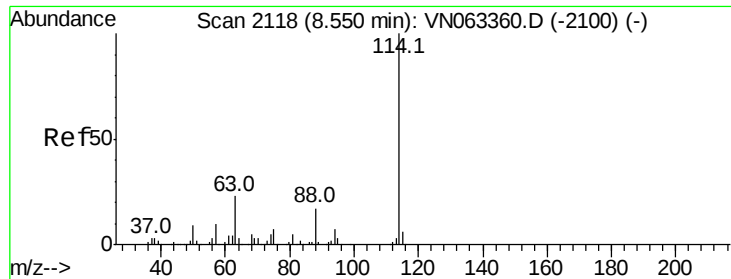
#33
1,2-Dichloroethane-d4
Concen: 51.298 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

Tgt Ion: 65 Resp: 175241
Ion Ratio Lower Upper
65 100
67 49.8 0.0 104.2



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

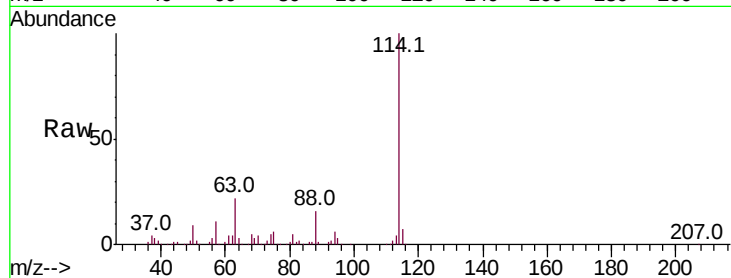




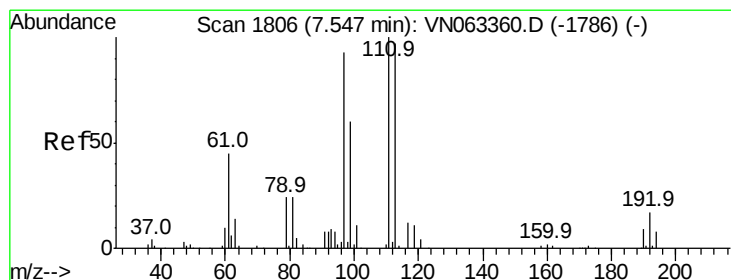
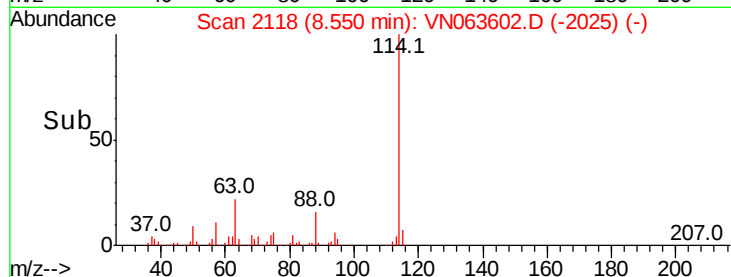
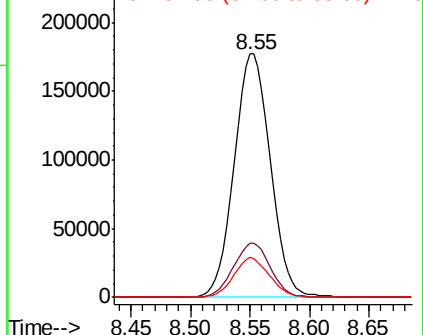
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

Instrument :
 MSVOA_N
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 RE104D1-20200917

Tot Ion:114 Resp: 374048
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 46.4
 88 16.3 0.0 33.2

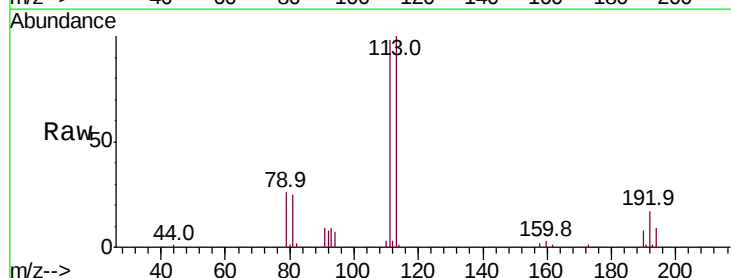


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

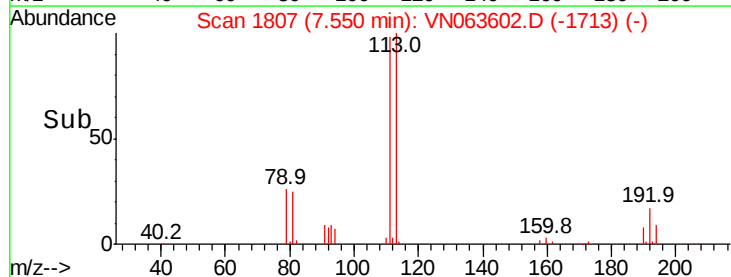
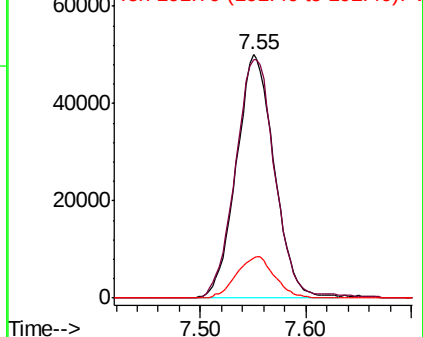


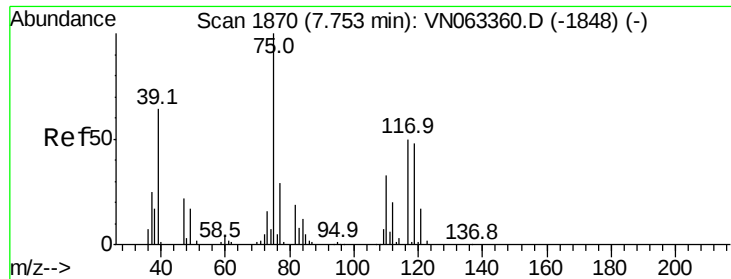
#35
 Dibromofluoromethane
 Concen: 48.429 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

Tgt Ion:113 Resp: 125404
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.9 124.3
 192 17.0 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

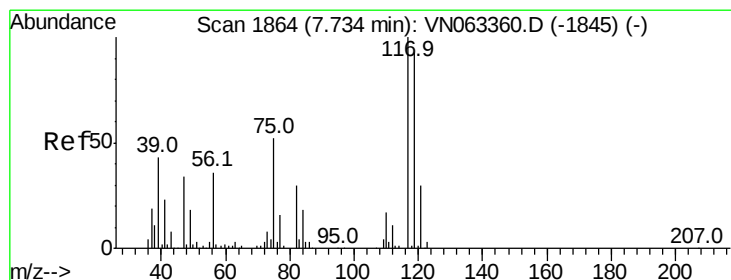
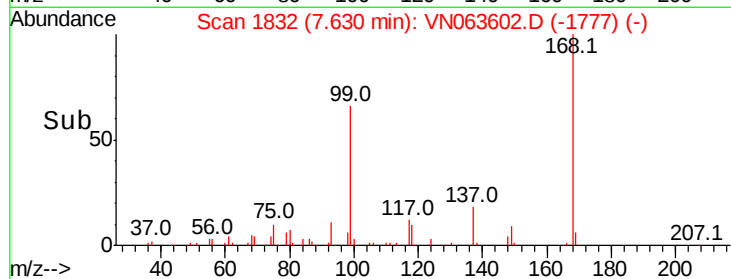
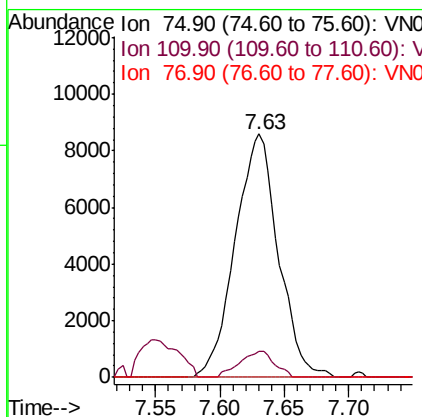
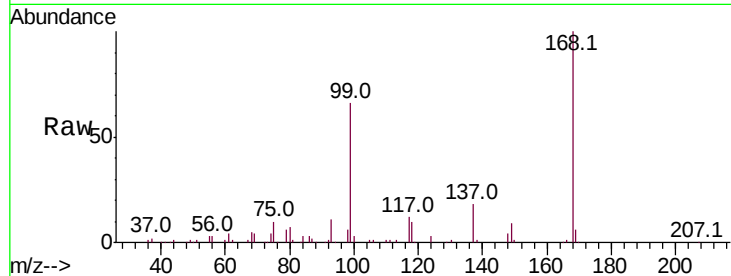




#36
 1,1-Dichloropropene
 Concen: 5.019 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

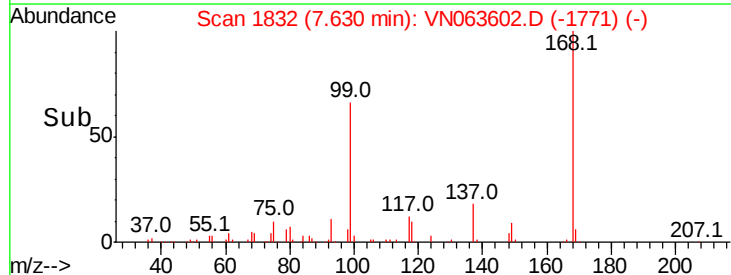
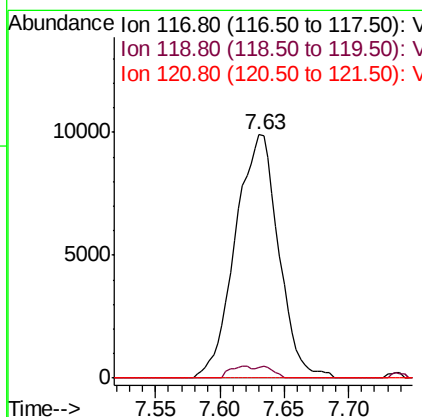
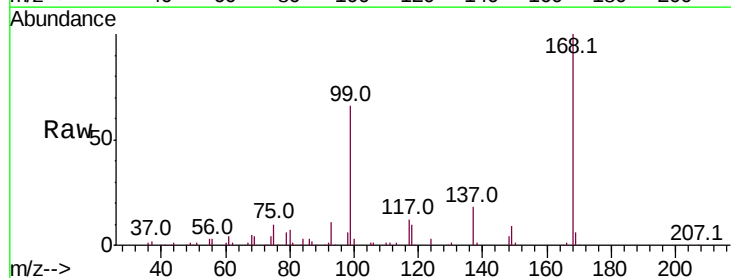
Instrument :
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 ClientSampleId :
 RE104D1-20200917

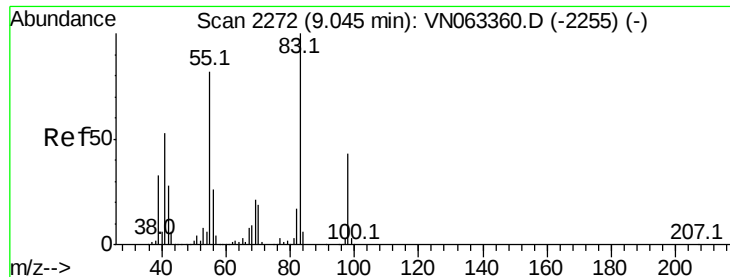
Tot Ion	75	Resp	20000
Ion Ratio	Lower	Upper	
75	100		
110	8.5	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.690 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.10 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

Tgt Ion	117	Resp	23148
Ion Ratio	Lower	Upper	
117	100		
119	4.1	74.5	111.7#
121	0.0	24.1	36.1#





#39

Methylcyclohexane

Concen: 0.404 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. -0.24 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

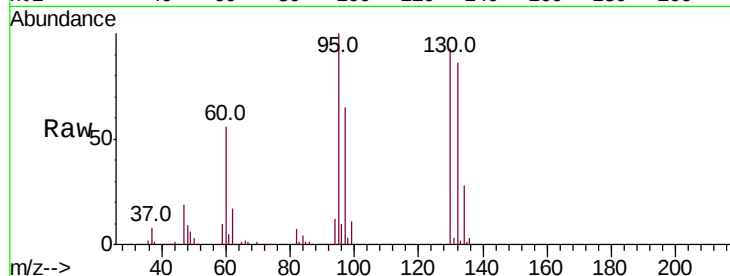
Tot Ion: 83 Resp: 1749

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

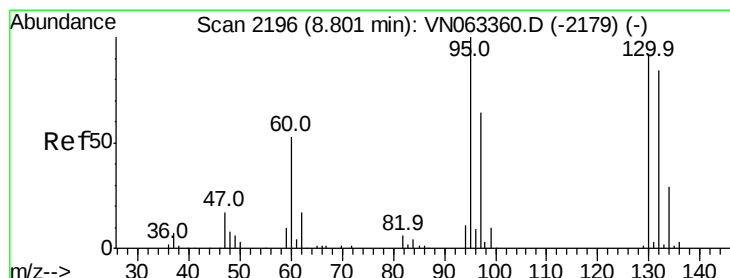
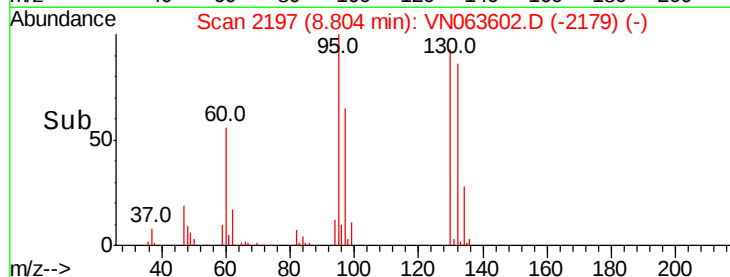
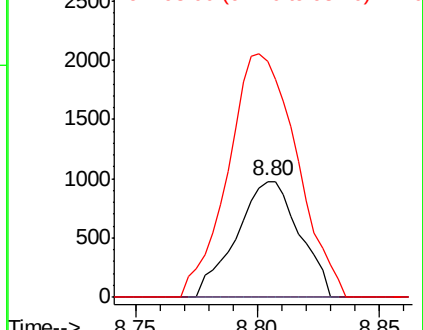
98 186.9 34.2 51.4#



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



#44

Trichloroethene

Concen: 46.729 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN063602.D

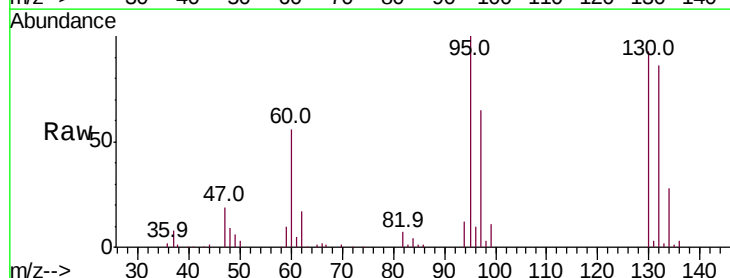
Acq: 23 Sep 2020 20:30

Tgt Ion:130 Resp: 128930

Ion Ratio Lower Upper

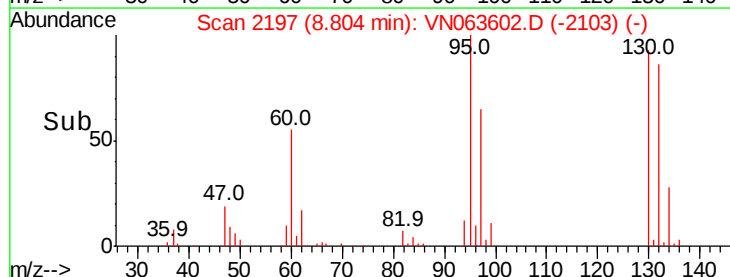
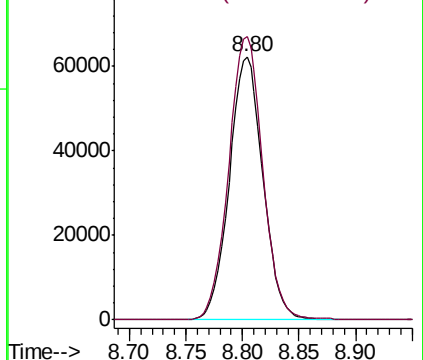
130 100

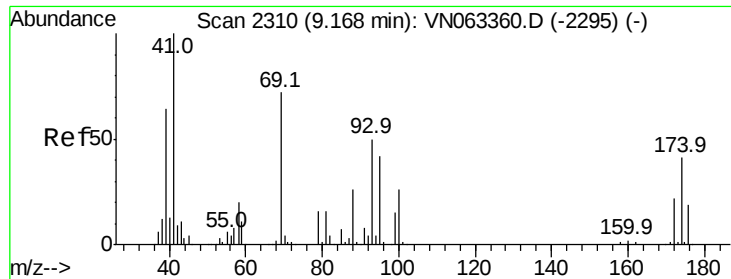
95 107.5 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

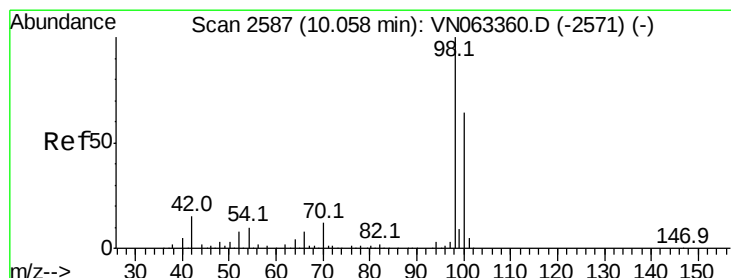
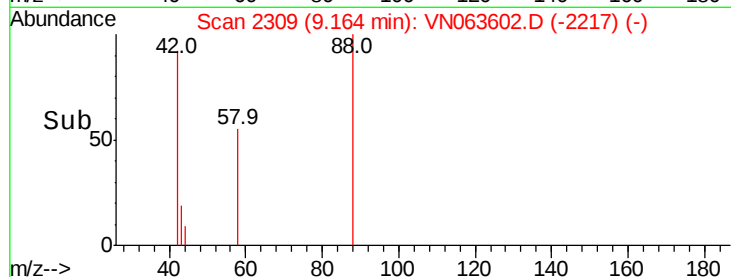
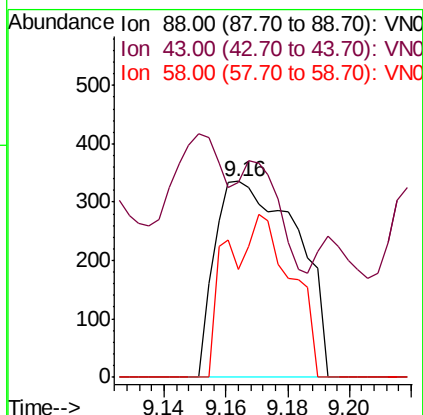
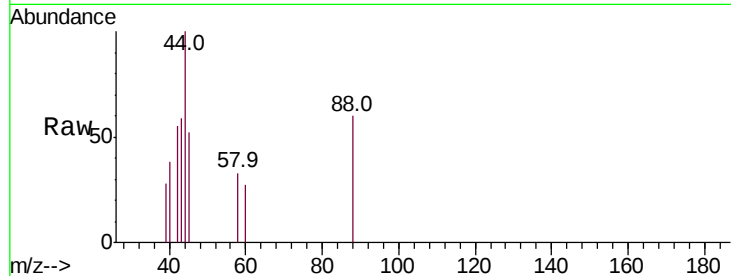




#49
 1,4-Dioxane
 Concen: 12.574 ug/l
 RT: 9.16 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

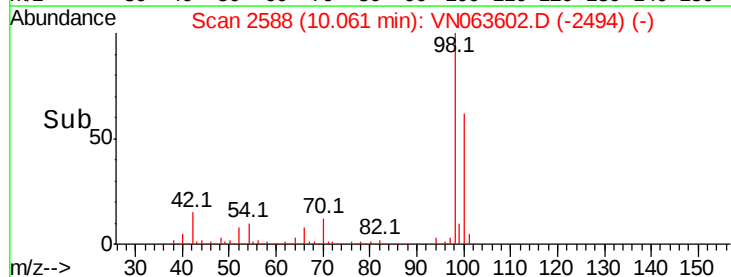
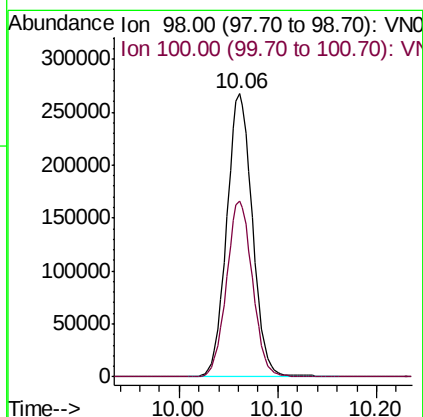
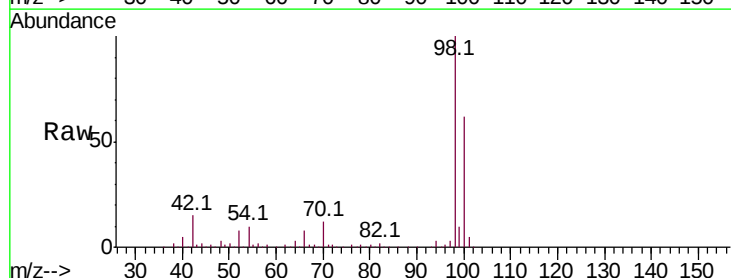
Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D1-20200917

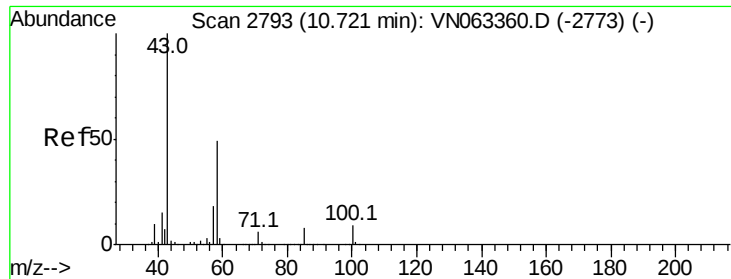
Tot Ion: 88 Resp: 620
 Ion Ratio Lower Upper
 88 100
 43 24.8 32.6 49.0#
 58 20.0 60.0 90.0#



#50
 Toluene-d8
 Concen: 50.077 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. 0.00 min
 Lab File: VN063602.D
 Acq: 23 Sep 2020 20:30

Tgt Ion: 98 Resp: 487592
 Ion Ratio Lower Upper
 98 100
 100 62.7 50.7 76.1

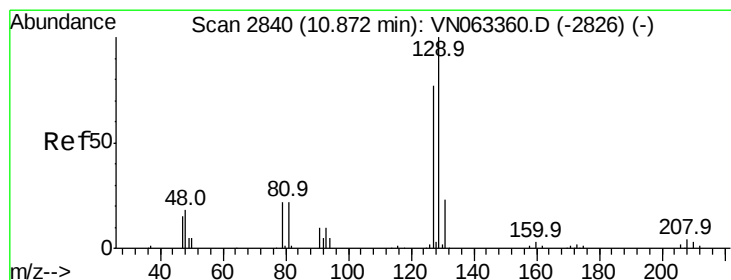
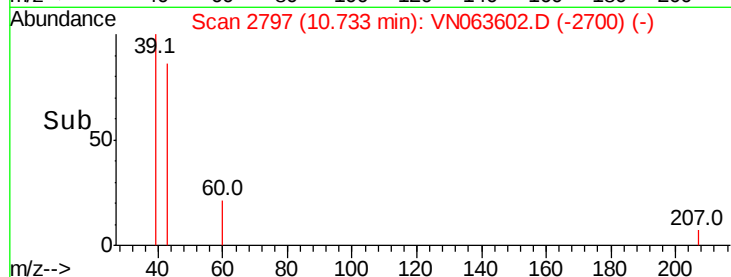
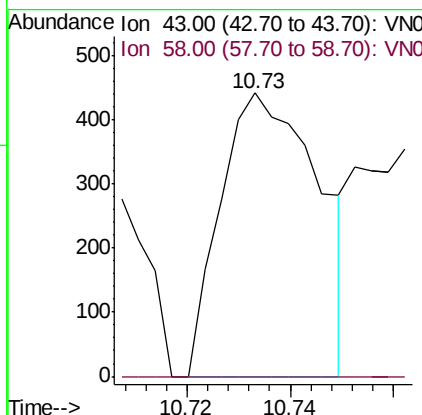
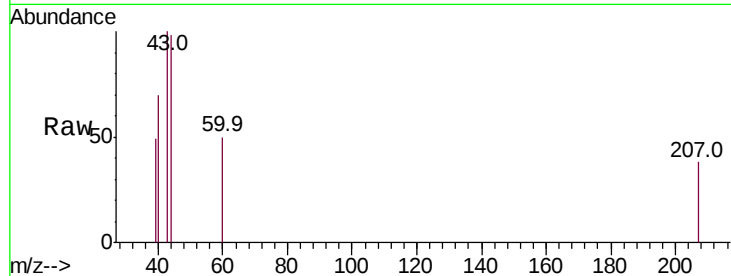




#59
2-Hexanone
Concen: 0.205 ug/l
RT: 10.73 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

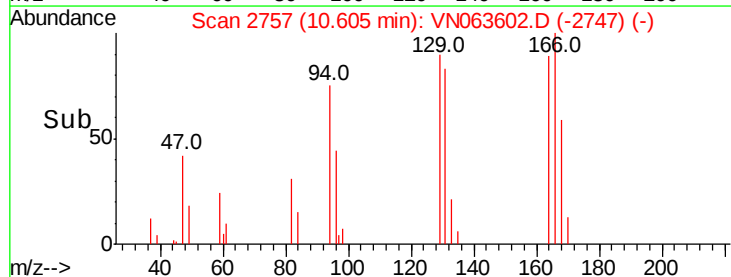
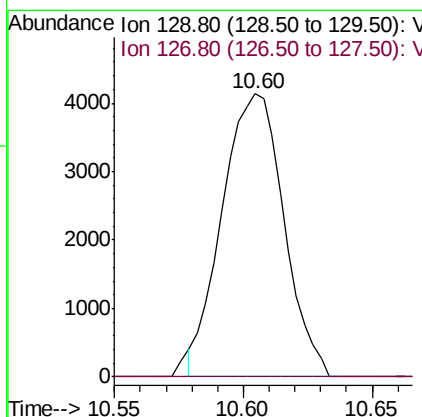
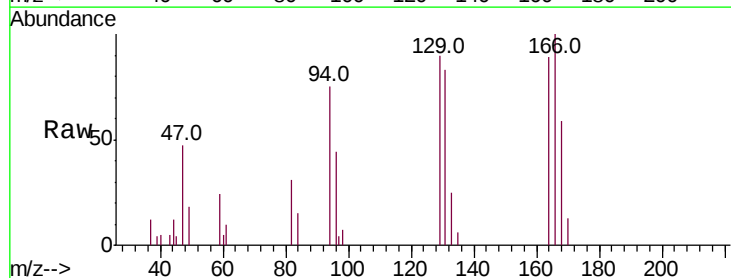
Instrument :
MSVOA_N
ClientSampleId :
RE104D1-20200917

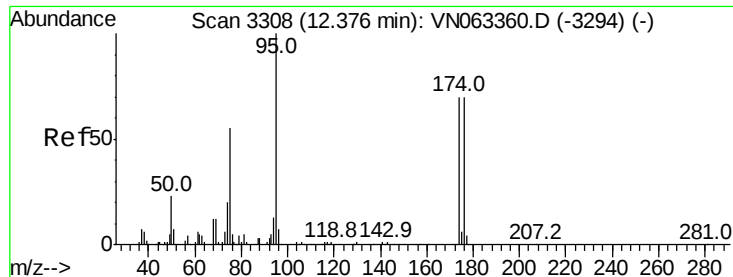
Tot Ion: 43 Resp: 581
Ion Ratio Lower Upper
43 100
58 0.0 24.7 74.1#



#60
Dibromochloromethane
Concen: 2.241 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN063602.D
Acq: 23 Sep 2020 20:30

Tgt Ion: 129 Resp: 6878
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.3#





#62

4-Bromofluorobenzene

Concen: 52.795 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

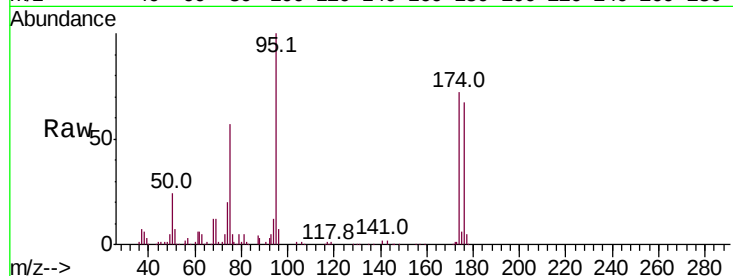
Tot Ion: 95 Resp: 188443

Ion Ratio Lower Upper

95 100

174 73.4 0.0 140.8

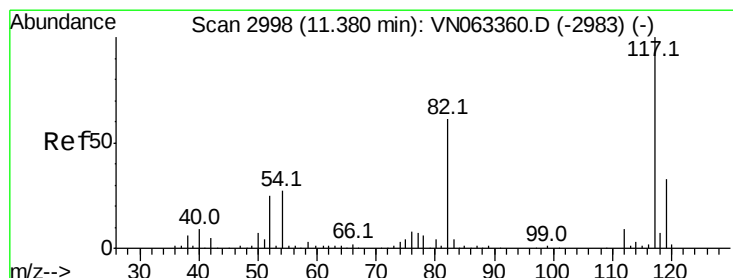
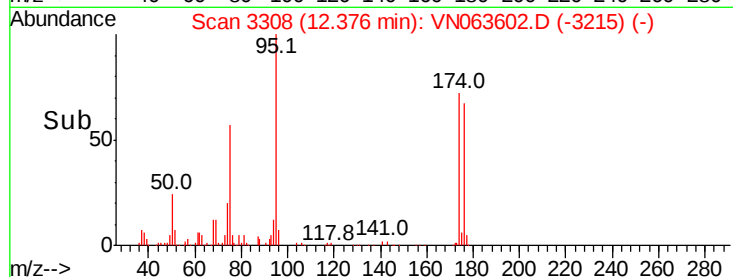
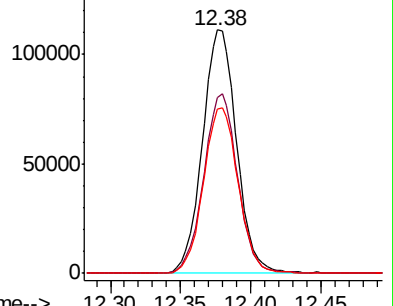
176 69.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

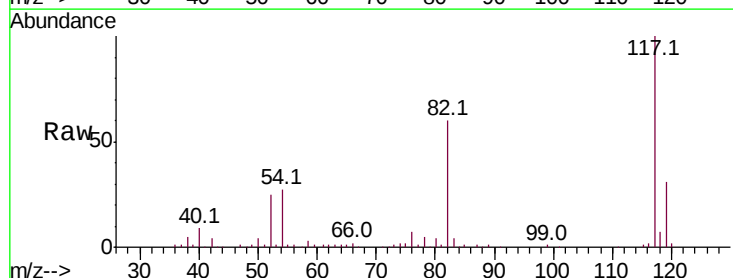
Tgt Ion: 117 Resp: 390660

Ion Ratio Lower Upper

117 100

82 60.3 49.2 73.8

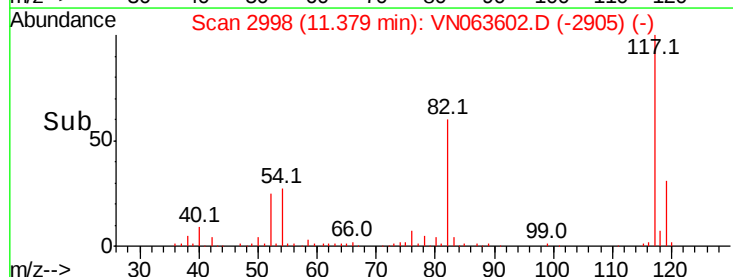
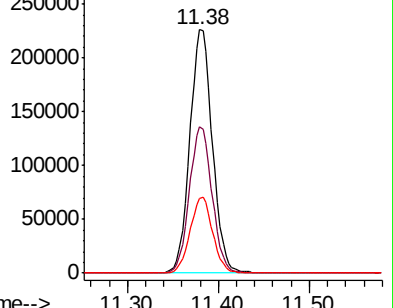
119 30.5 26.2 39.4

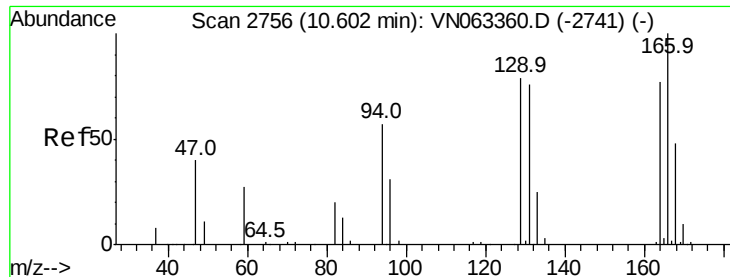


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)





#64

Tetrachloroethene

Concen: 2.589 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

Tot Ion:164 Resp: 6887

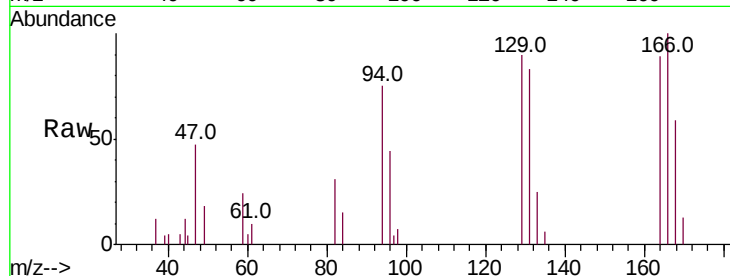
Ion Ratio Lower Upper

164 100

166 112.5 103.4 155.0

129 101.2 81.8 122.6

131 93.5 78.2 117.4

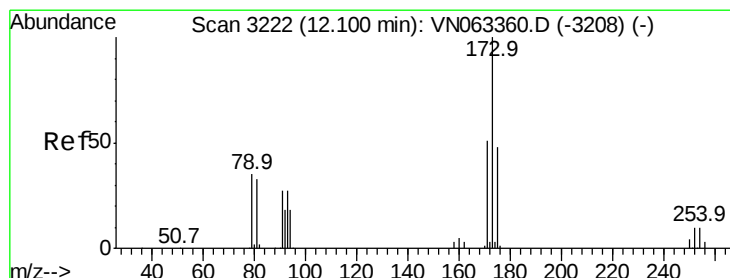
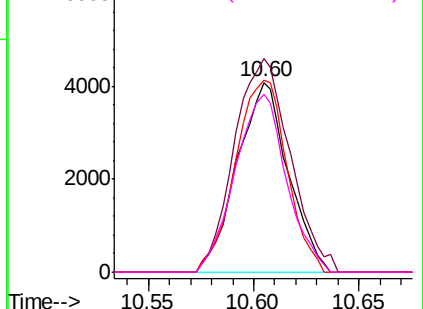
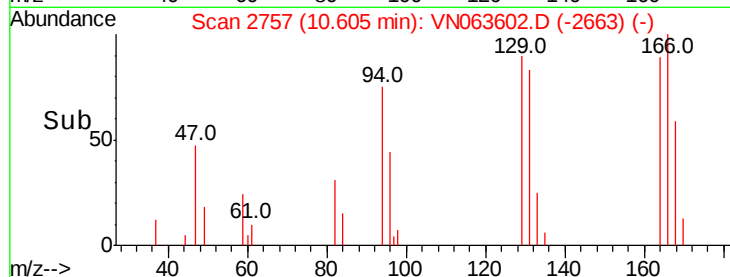


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.373 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

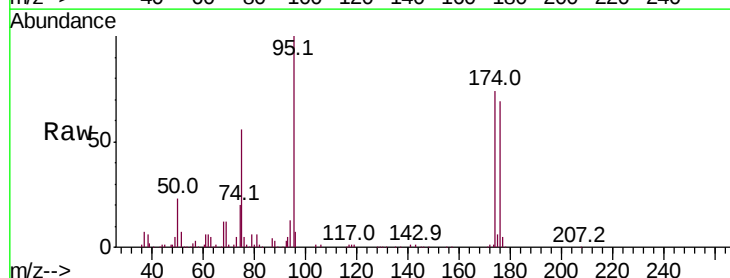
Tgt Ion:173 Resp: 845

Ion Ratio Lower Upper

173 100

175 1037.3 24.0 72.0#

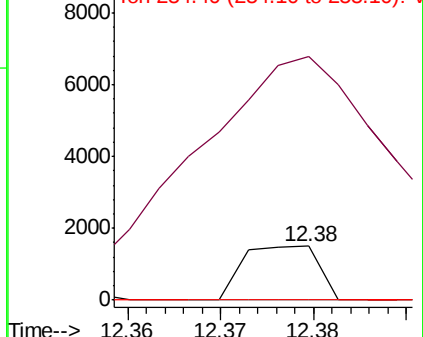
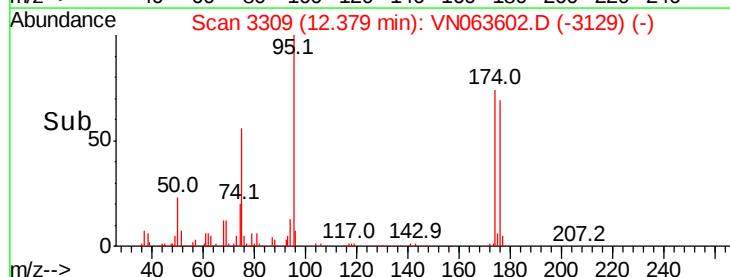
254 0.0 0.0 0.0

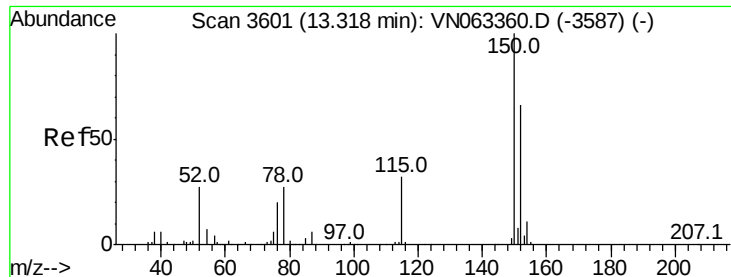


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3602

Delta R.T. 0.00 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

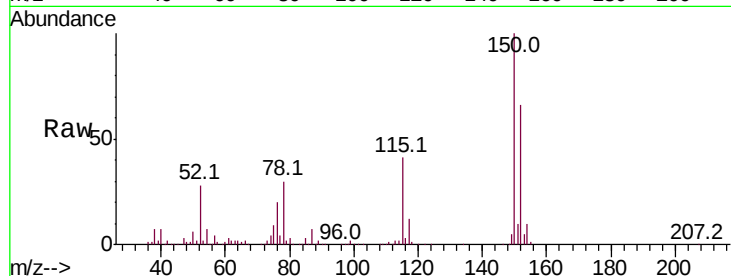
Tot Ion:152 Resp: 161178

Ion Ratio Lower Upper

152 100

115 62.6 32.2 96.6

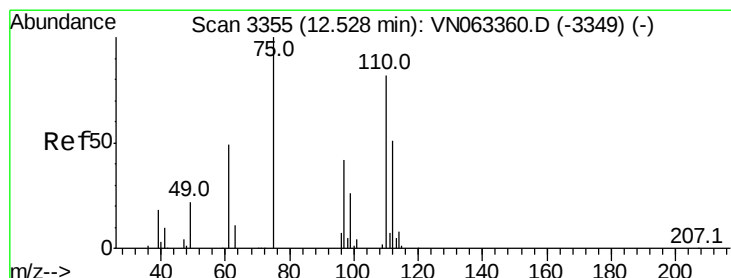
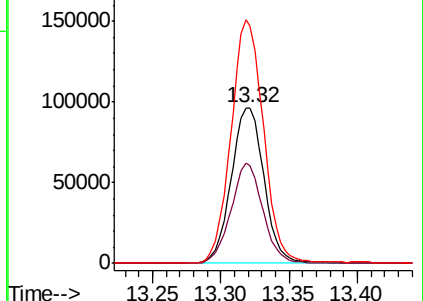
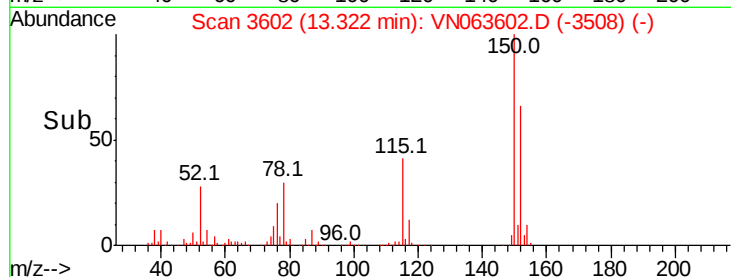
150 155.0 0.0 343.4



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: 26.699 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063602.D

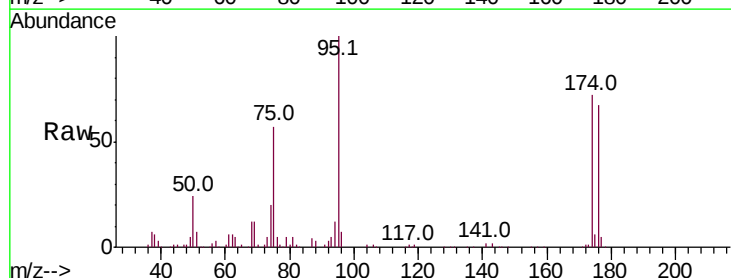
Acq: 23 Sep 2020 20:30

Tgt Ion: 75 Resp: 106513

Ion Ratio Lower Upper

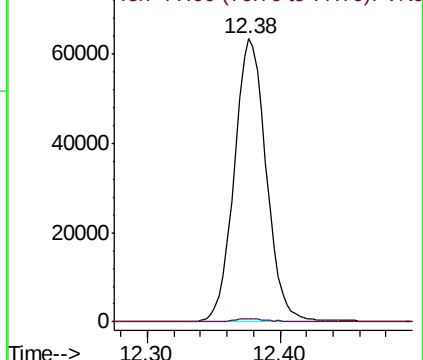
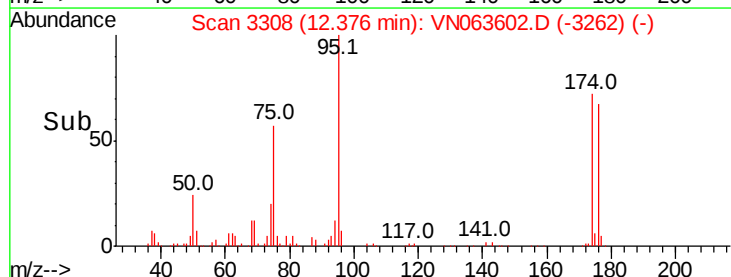
75 100

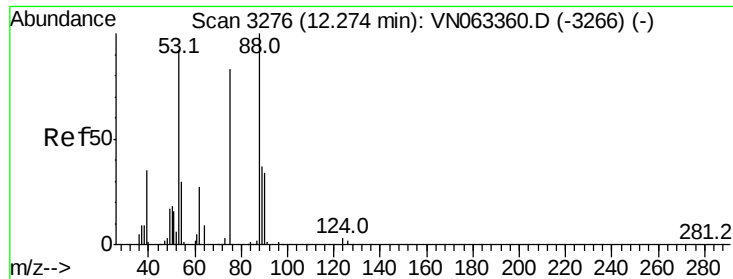
77 1.1 0.0 0.0#



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: 73.199 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063602.D

Acq: 23 Sep 2020 20:30

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20200917

Tot Ion: 75 Resp: 106513

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.1 38.0 57.0#

