

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063695.D
 Acq On : 25 Sep 2020 21:54
 Operator : JC/MD
 Sample : L4133-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4S

Quant Time: Sep 28 02:05:32 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	198501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	372671	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	379750	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159928	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	176160	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
35) Dibromofluoromethane	7.55	113	125315	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
50) Toluene-d8	10.06	98	481278	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.38	95	186246	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	

Target Compounds

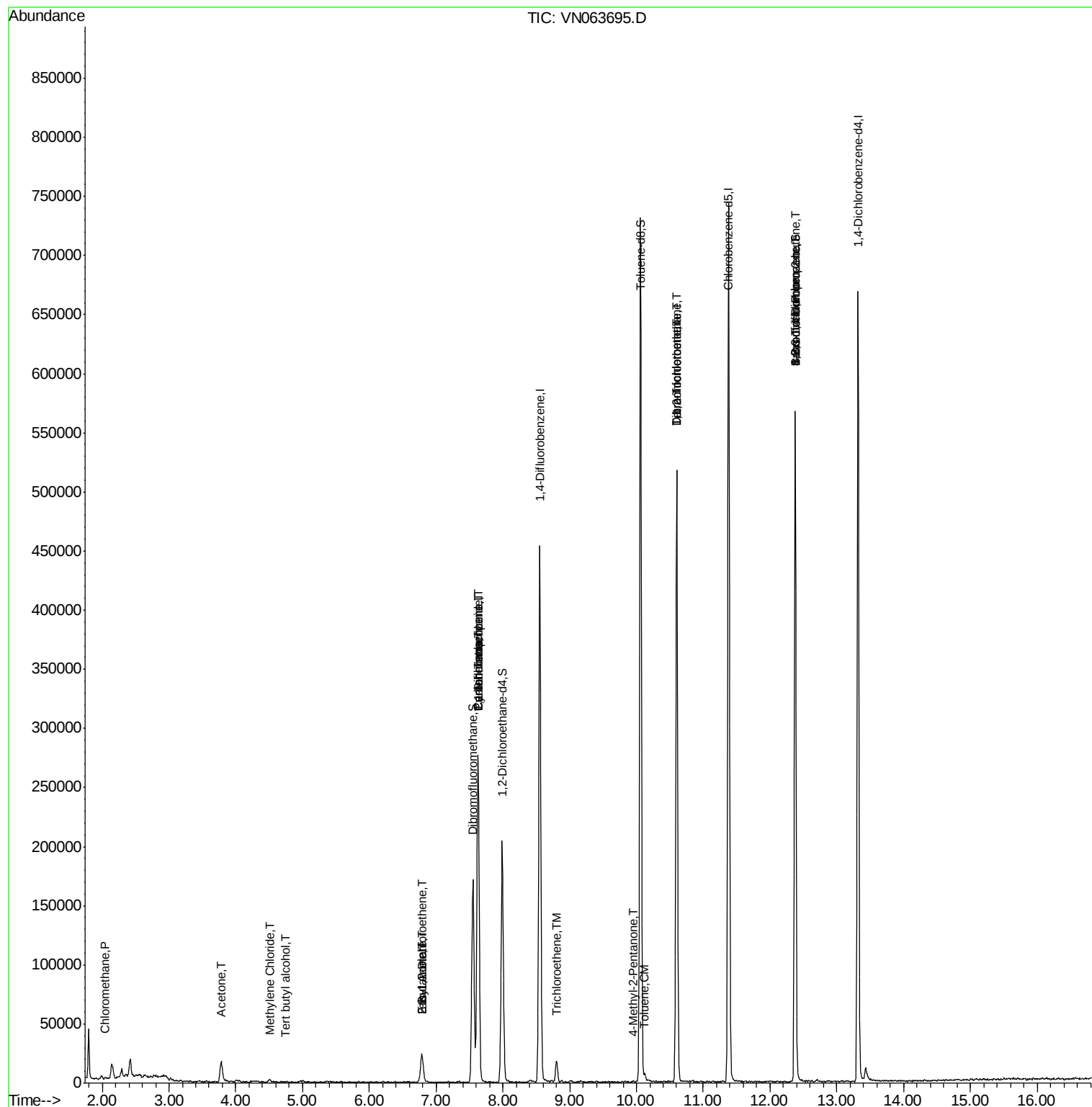
					Qvalue	
3) Chloromethane	2.04	50	919	0.309	ug/l	93
11) Tert butyl alcohol	4.74	59	104	0.222	ug/l #	72
16) Acetone	3.78	43	30604	28.182	ug/l	94
20) Methylene Chloride	4.51	84	1074	0.390	ug/l #	62
25) 2-Butanone	6.80	43	5064	3.032	ug/l #	79
27) cis-1,2-Dichloroethene	6.78	96	12380	4.407	ug/l	84
31) Cyclohexane	7.62	56	5593	1.198	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	18949	4.773	ug/l #	45
37) Ethyl Acetate	6.80	43	5064	1.300	ug/l #	70
38) Carbon Tetrachloride	7.63	117	22023	5.434	ug/l #	17
44) Trichloroethene	8.81	130	5593	2.035	ug/l	87
51) 4-Methyl-2-Pentanone	9.96	43	1445	0.370	ug/l #	64
52) Toluene	10.13	92	1599	0.235	ug/l	97
55) 1,1,2-Trichloroethane	10.60	97	1330	0.491	ug/l #	38
60) Dibromochloromethane	10.60	129	101033	33.041	ug/l #	10
64) Tetrachloroethene	10.60	164	106890	41.337	ug/l	95
71) Bromoform	12.37	173	615	0.279	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	106314	26.858	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106314	73.633	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# 1832

Delta R.T. 0.01 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

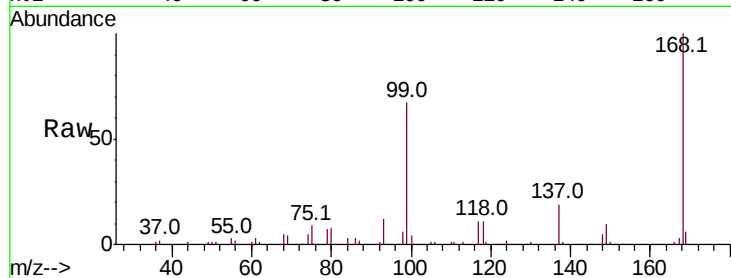
MW4S

Tot Ion:168 Resp: 198501

Ion Ratio Lower Upper

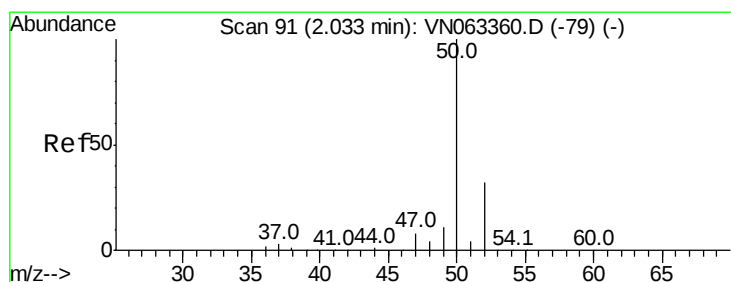
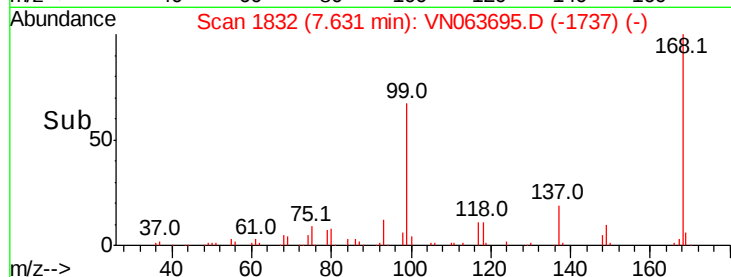
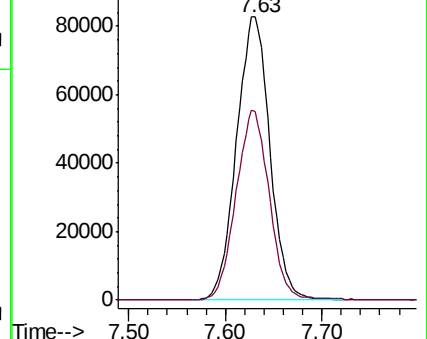
168 100

99 66.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.309 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063695.D

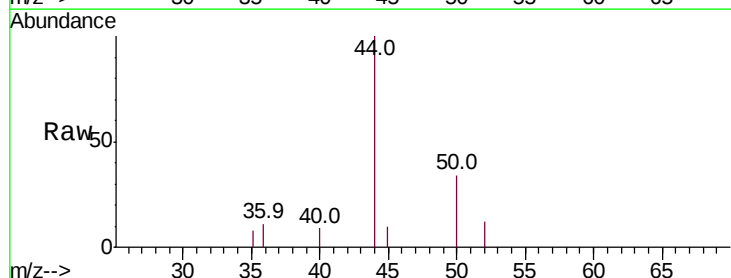
Acq: 25 Sep 2020 21:54

Tgt Ion: 50 Resp: 919

Ion Ratio Lower Upper

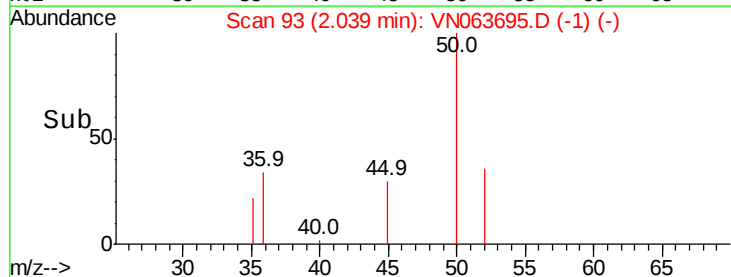
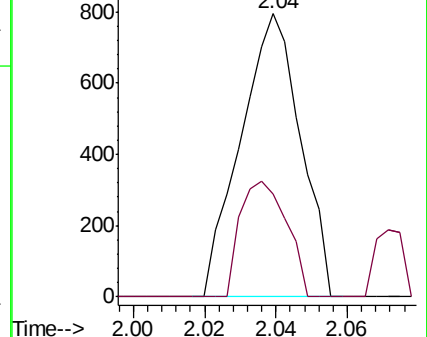
50 100

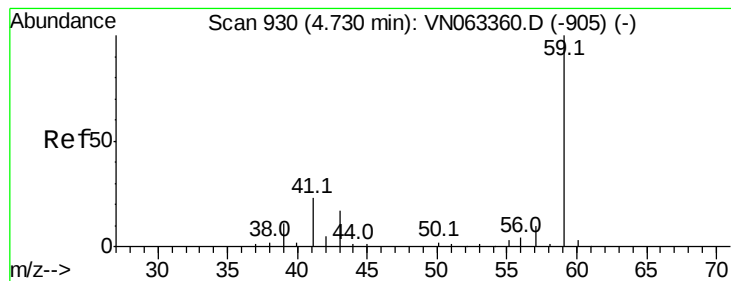
52 36.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN



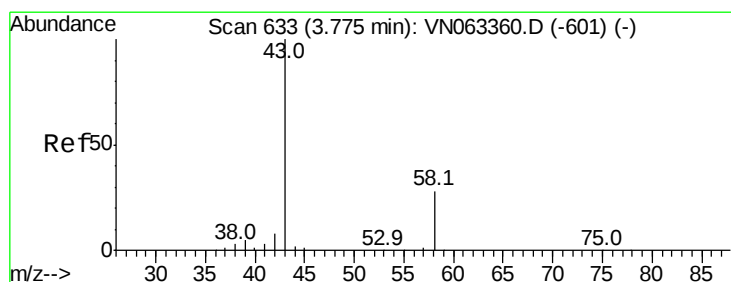
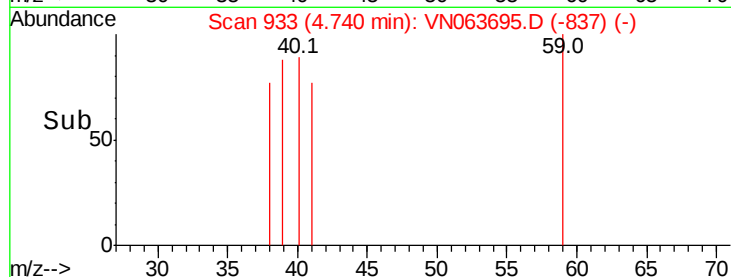
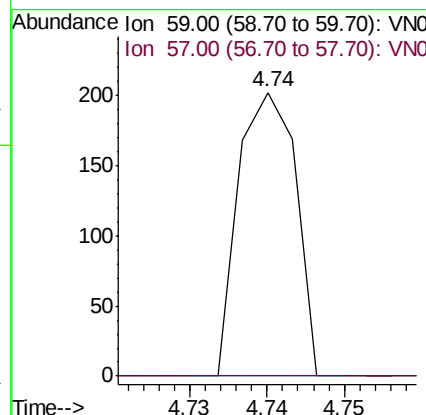
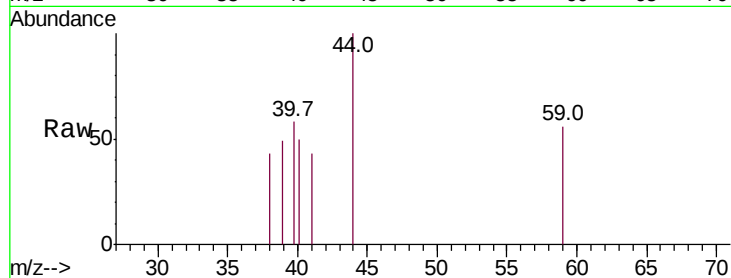


#11

Tert butyl alcohol
 Concen: 0.222 ug/l
 RT: 4.74 min Scan# 933
 Delta R.T. 0.01 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Instrument :
 MSVOA_N
 ClientSampled :
 MW4S

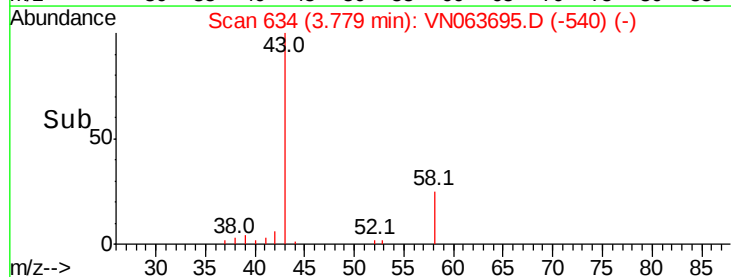
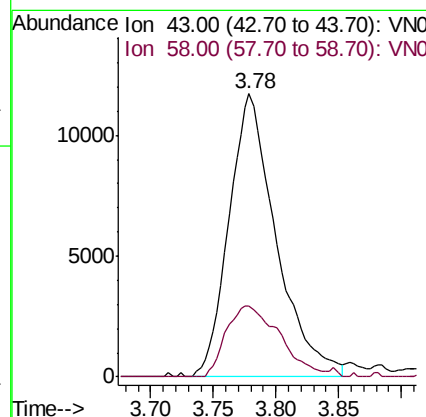
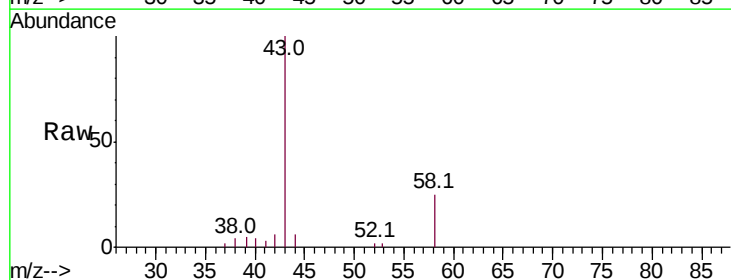
Tot Ion: 59 Resp: 104
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

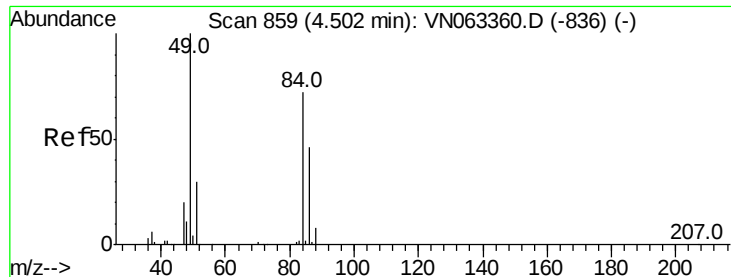


#16

Acetone
 Concen: 28.182 ug/l
 RT: 3.78 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Tgt Ion: 43 Resp: 30604
 Ion Ratio Lower Upper
 43 100
 58 25.0 22.3 33.5





#20

Methvlene Chloride

Concen: 0.390 ug/l

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

MW4S

Tot Ion: 84 Resp: 1074

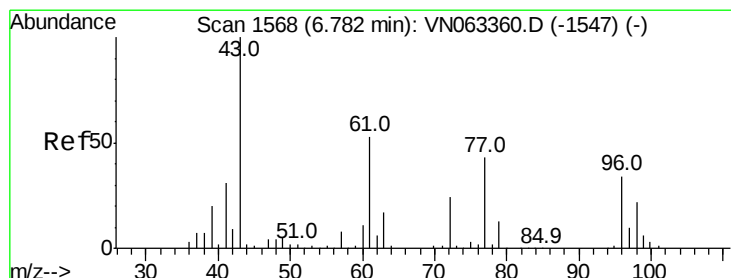
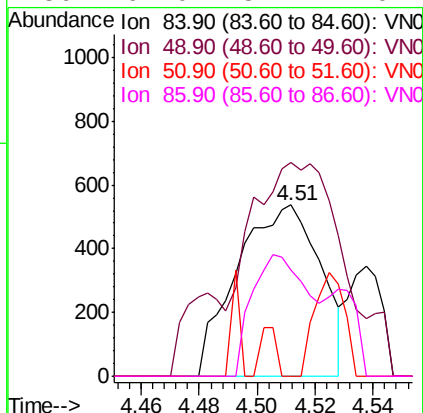
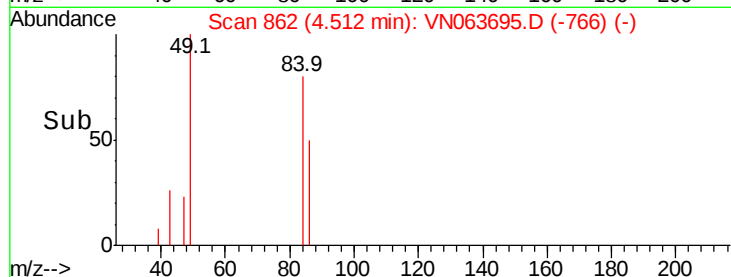
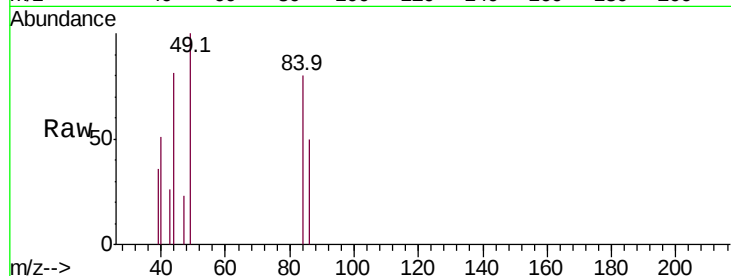
Ion Ratio Lower Upper

84 100

49 82.9 110.7 166.1#

51 0.0 32.9 49.3#

86 62.0 51.1 76.7



#25

2-Butanone

Concen: 3.032 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN063695.D

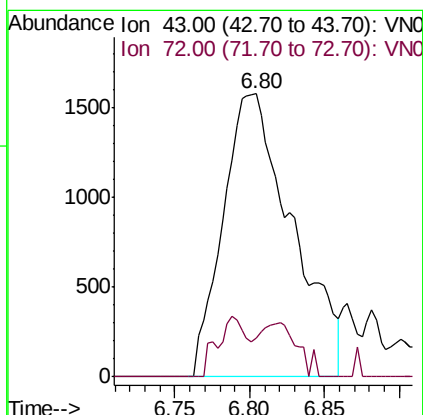
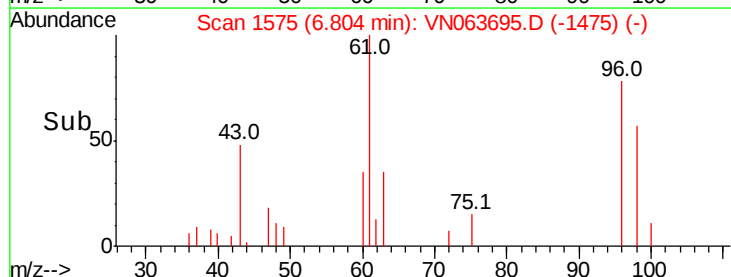
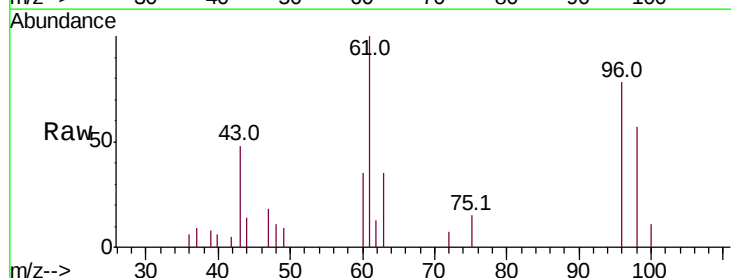
Acq: 25 Sep 2020 21:54

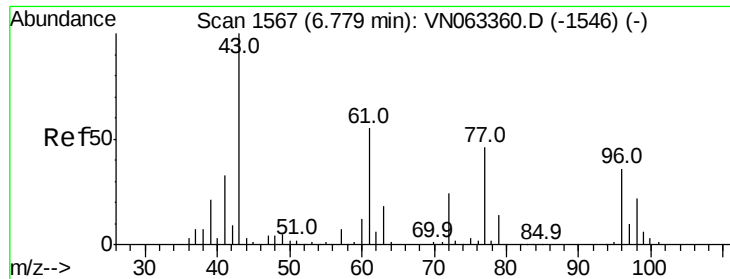
Tgt Ion: 43 Resp: 5064

Ion Ratio Lower Upper

43 100

72 13.7 19.2 28.8#





#27

cis-1,2-Dichloroethene

Concen: 4.407 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

MW4S

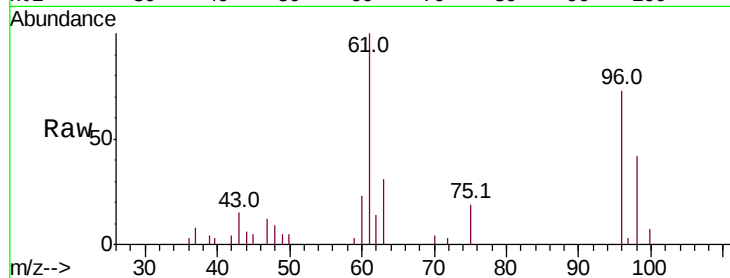
Tot Ion: 96 Resp: 12380

Ion Ratio Lower Upper

96 100

61 130.6 0.0 319.6

98 65.3 0.0 127.8

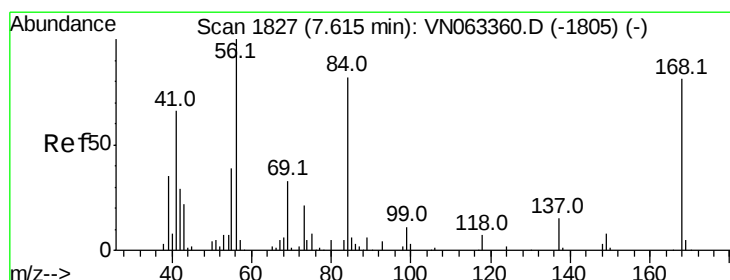
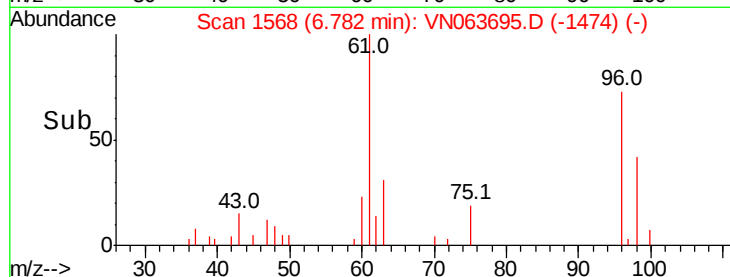
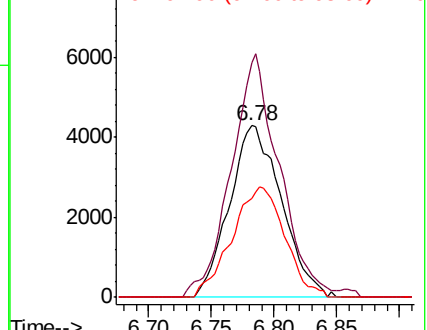


Abundance

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



#31

Cyclohexane

Concen: 1.198 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

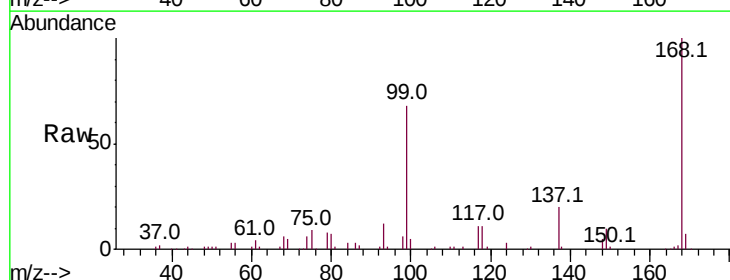
Tgt Ion: 56 Resp: 5593

Ion Ratio Lower Upper

56 100

69 138.3 26.1 39.1#

84 101.9 65.4 98.2#

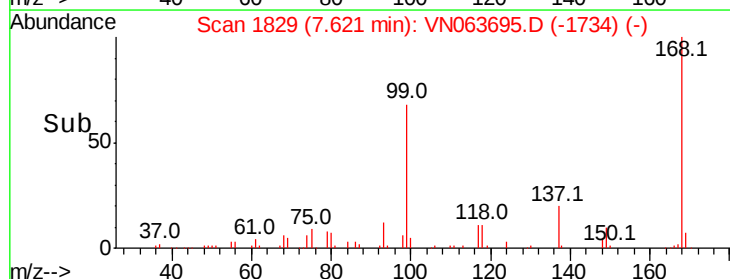
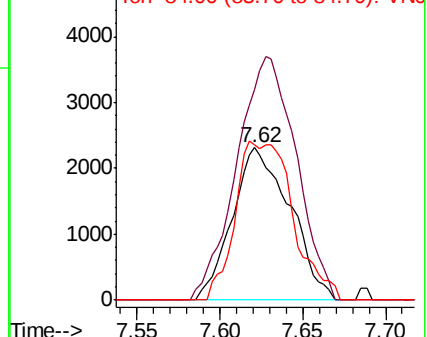


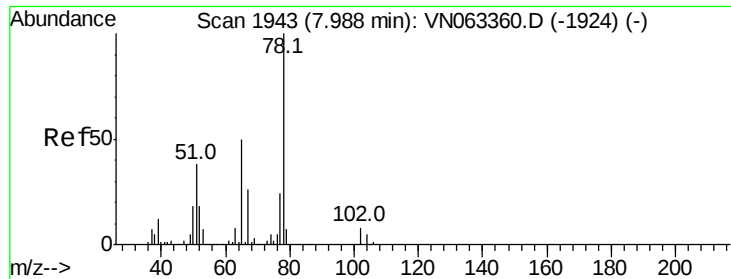
Abundance

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: 52.134 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampled :

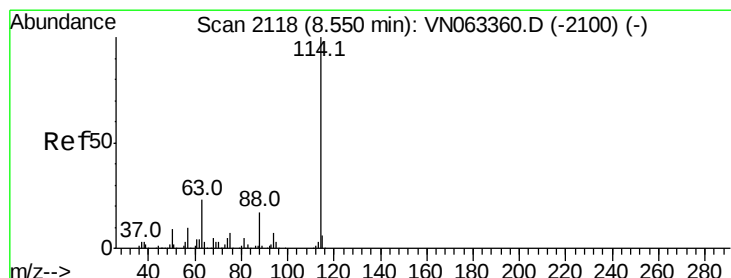
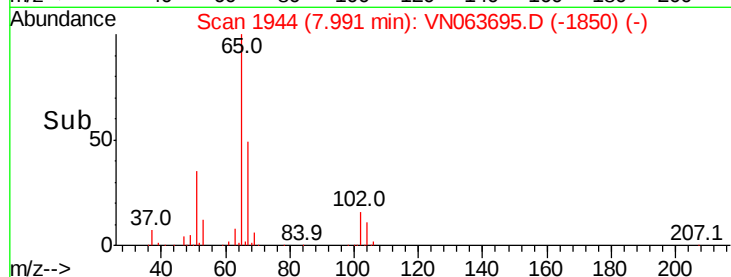
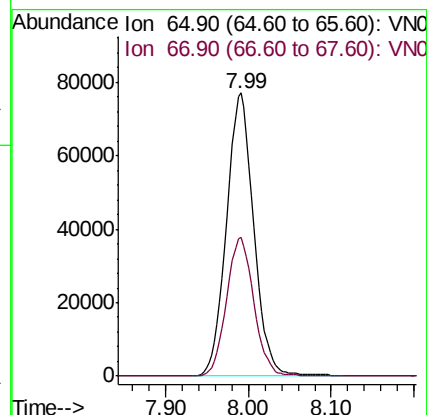
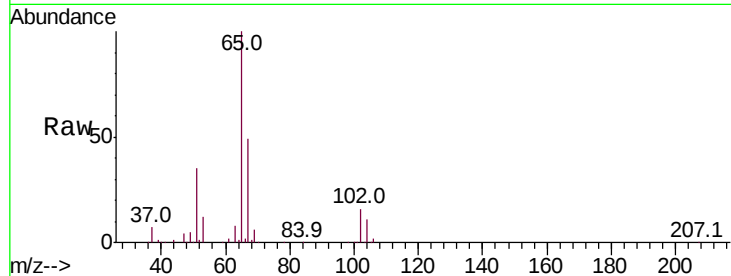
MW4S

Tot Ion: 65 Resp: 176160

Ion Ratio Lower Upper

65 100

67 49.0 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

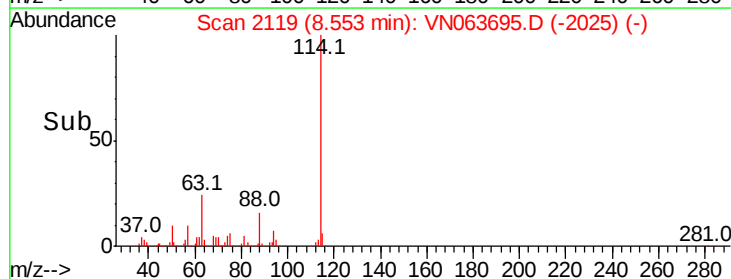
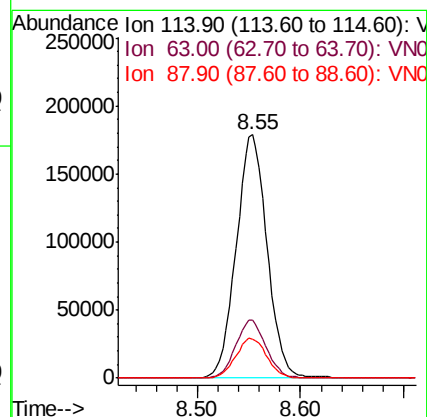
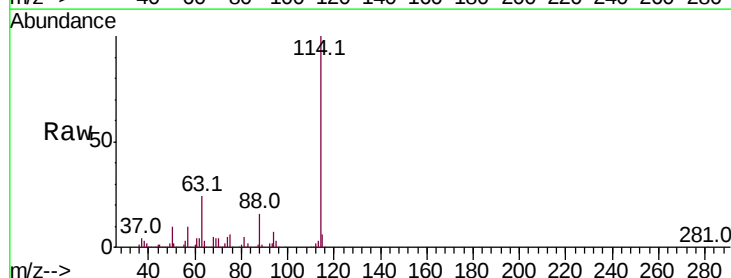
Tgt Ion: 114 Resp: 372671

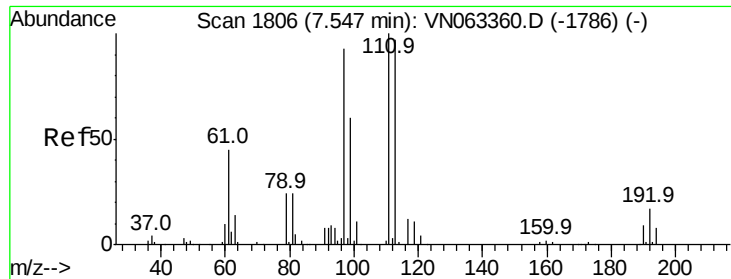
Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.4

88 16.1 0.0 33.2

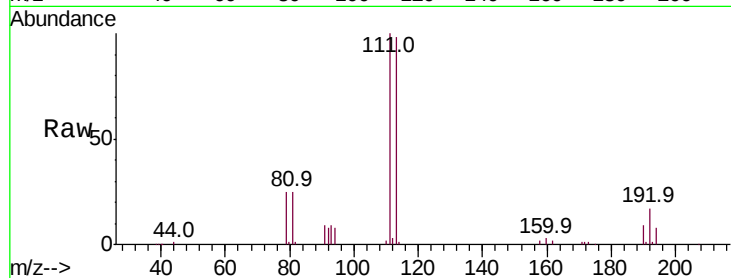




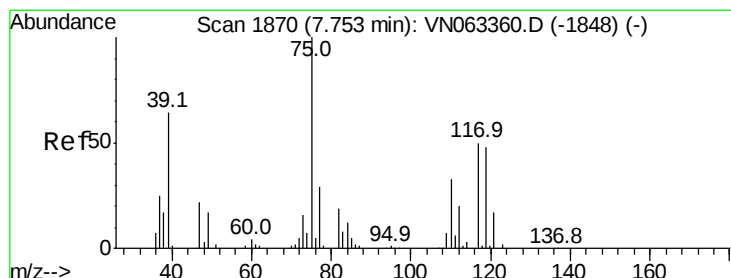
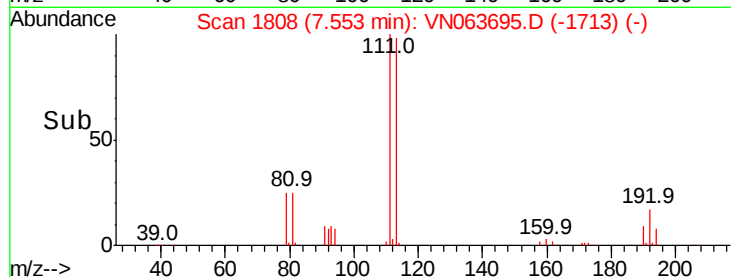
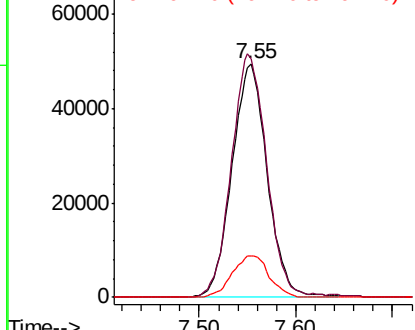
#35
 Dibromofluoromethane
 Concen: 48.573 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4S

Tot Ion:113 Resp: 125315
 Ion Ratio Lower Upper
 113 100
 111 104.3 82.9 124.3
 192 18.5 13.9 20.9

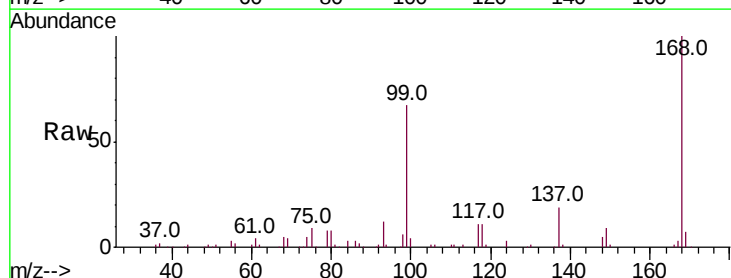


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

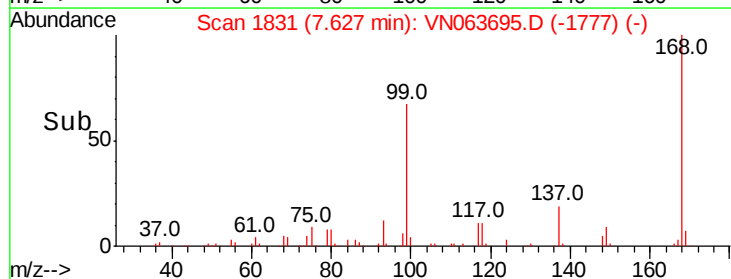
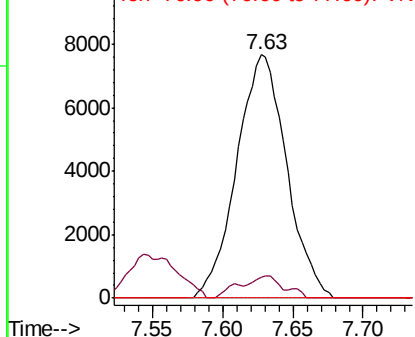


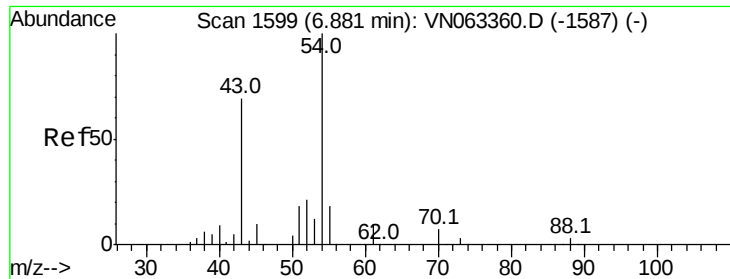
#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Tgt Ion: 75 Resp: 18949
 Ion Ratio Lower Upper
 75 100
 110 2.9 16.5 49.5#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

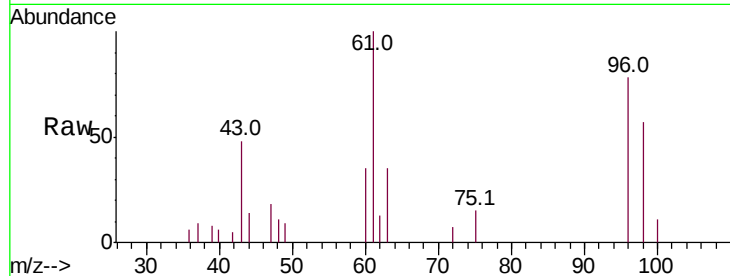




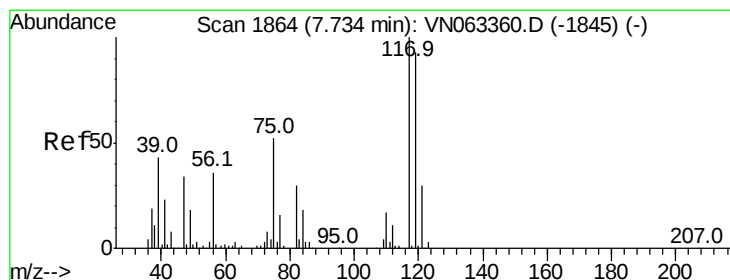
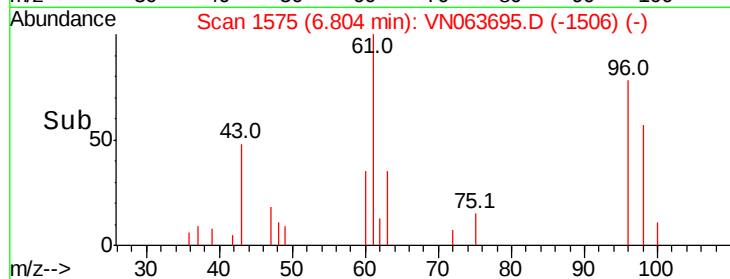
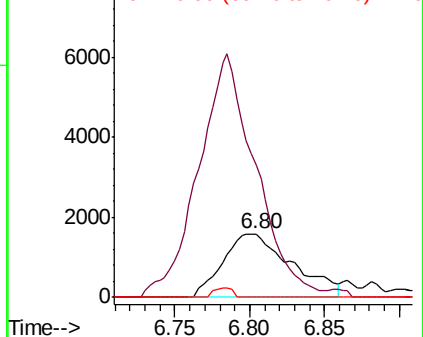
#37
Ethyl Acetate
Concen: 1.300 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. -0.08 min
Lab File: VN063695.D
Acq: 25 Sep 2020 21:54

Instrument :
MSVOA_N
ClientSampleId :
MW4S

Tot Ion: 43 Resp: 5064
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.2 10.8#

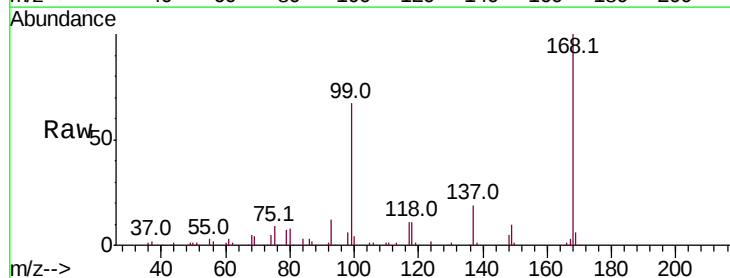


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

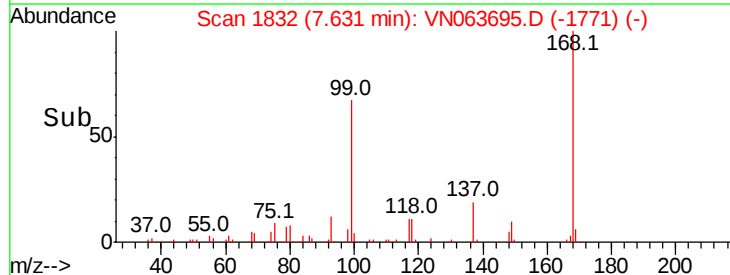
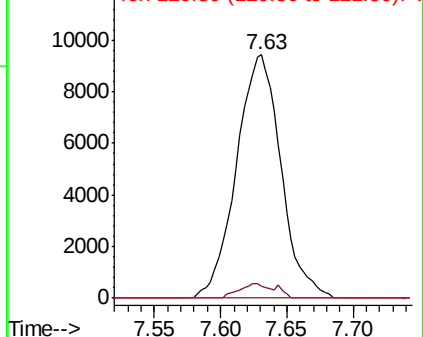


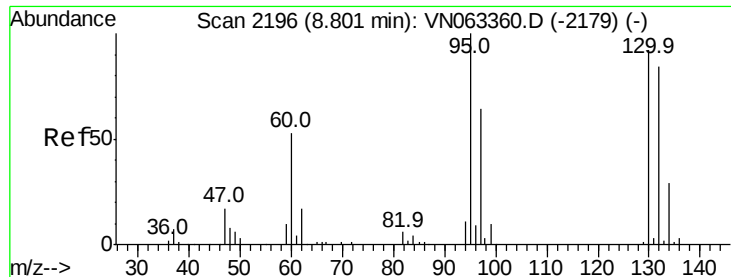
#38
Carbon Tetrachloride
Concen: 5.434 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.10 min
Lab File: VN063695.D
Acq: 25 Sep 2020 21:54

Tgt Ion: 117 Resp: 22023
Ion Ratio Lower Upper
117 100
119 5.1 74.5 111.7#
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

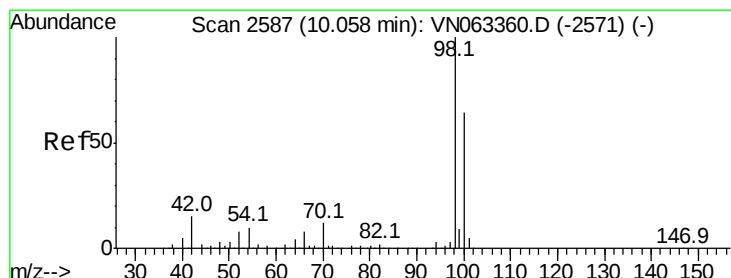
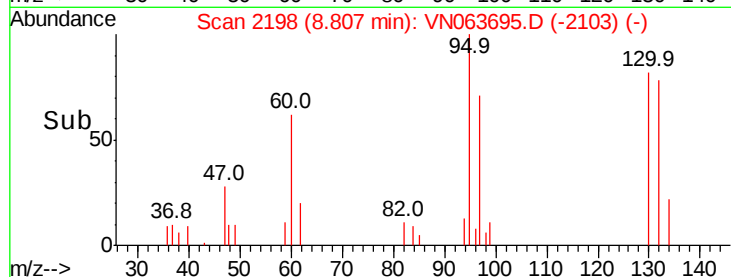
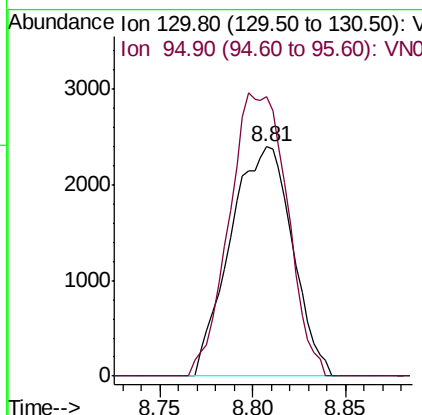
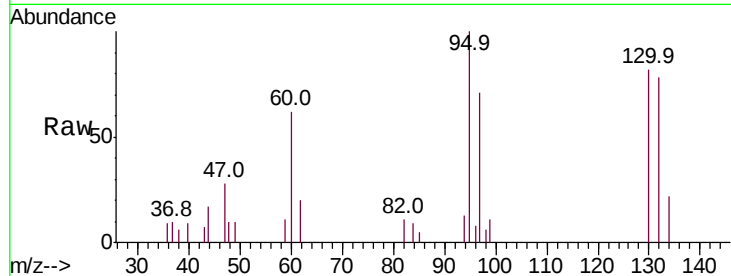




#44
 Trichloroethene
 Concen: 2.035 ug/l
 RT: 8.81 min Scan# 2198
 Delta R.T. 0.01 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

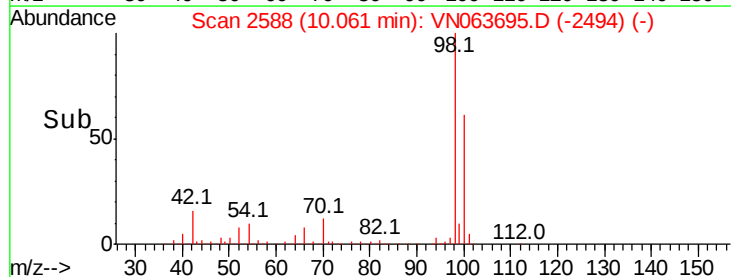
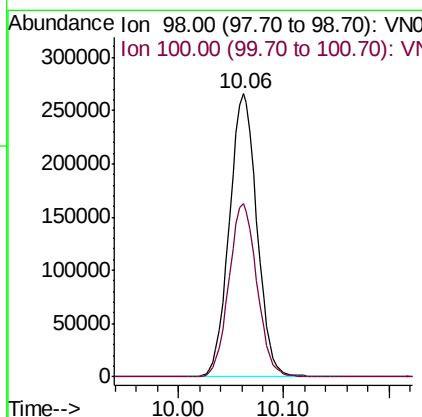
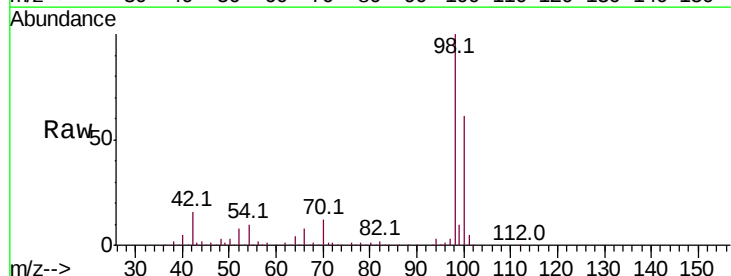
Instrument :
 MSVOA_N
 ClientSampleId :
 MW4S

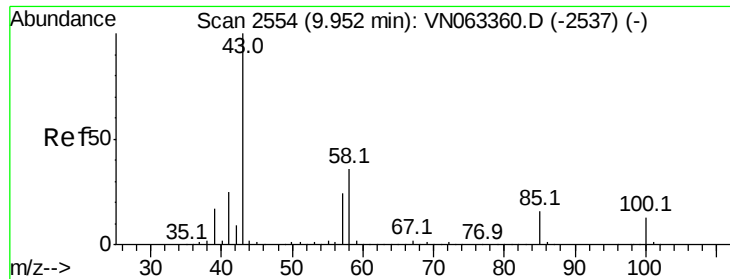
Tot Ion:130 Resp: 5593
 Ion Ratio Lower Upper
 130 100
 95 122.0 0.0 217.4



#50
 Toluene-d8
 Concen: 49.611 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. 0.00 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Tgt Ion: 98 Resp: 481278
 Ion Ratio Lower Upper
 98 100
 100 62.0 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.370 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampled :

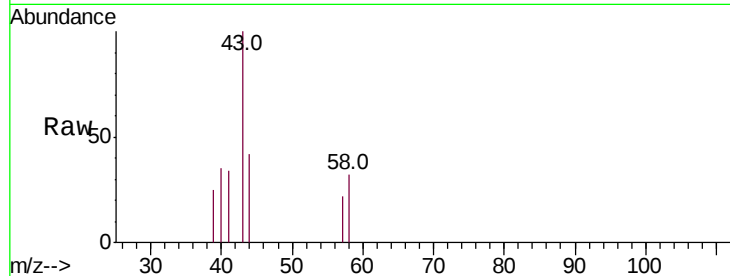
MW4S

Tot Ion: 43 Resp: 1445

Ion Ratio Lower Upper

43 100

58 15.2 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

9.96

800

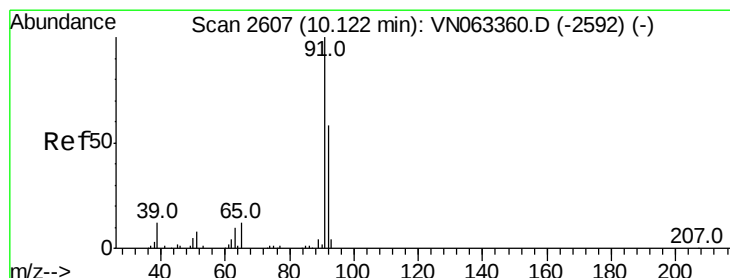
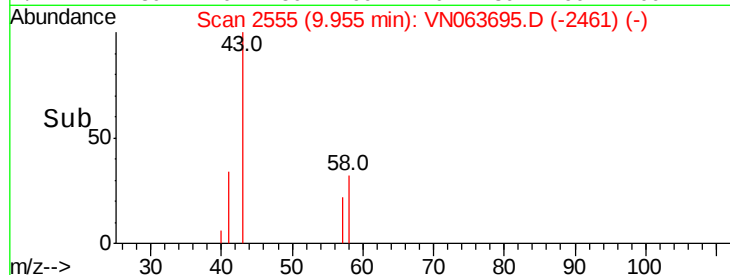
600

400

200

0

Time-->



#52

Toluene

Concen: 0.235 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.01 min

Lab File: VN063695.D

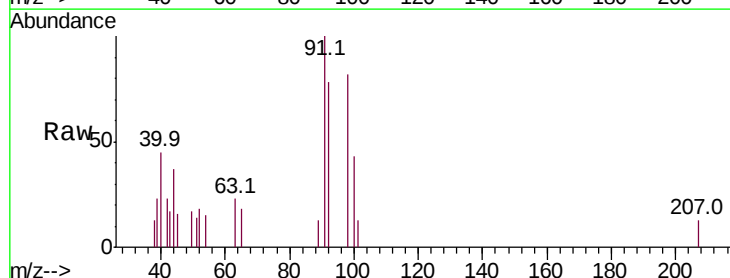
Acq: 25 Sep 2020 21:54

Tgt Ion: 92 Resp: 1599

Ion Ratio Lower Upper

92 100

91 170.7 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063360.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN063360.D (-2592) (-)

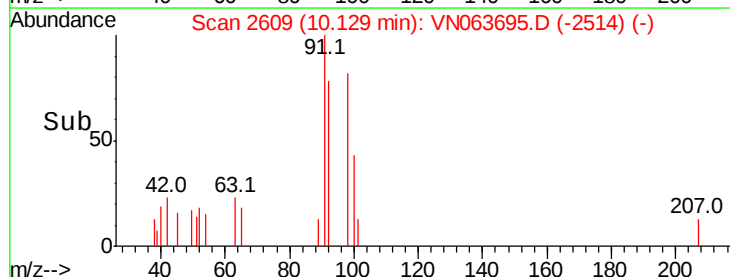
1500

1000

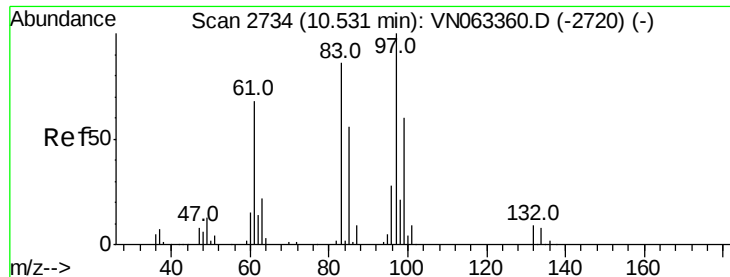
500

0

Time-->



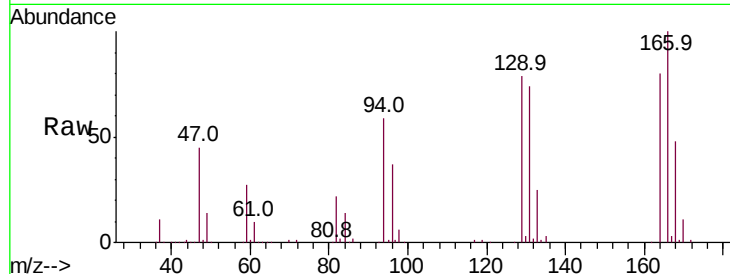
Time-->



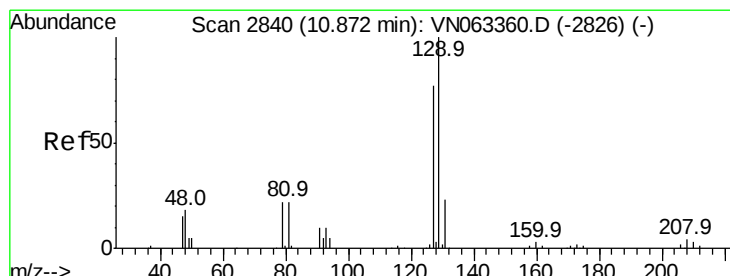
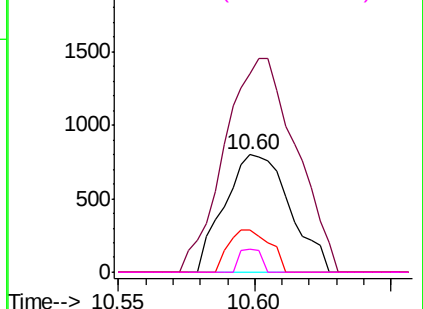
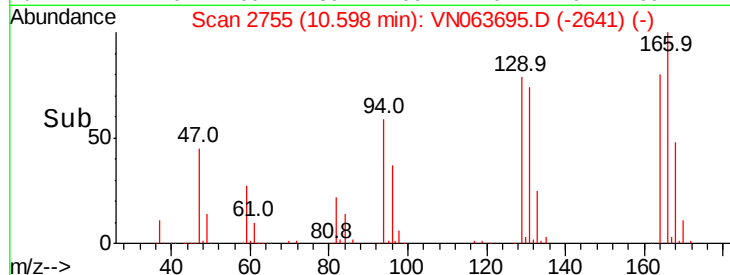
#55
 1,1,2-Trichloroethane
 Concen: 0.491 ug/l
 RT: 10.60 min Scan# 2755
 Delta R.T. 0.07 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Instrument :
 MSVOA_N
 ClientSampled :
 MW4S

Tot Ion: 97 Resp: 1330
 Ion Ratio Lower Upper
 97 100
 83 168.8 68.9 103.3#
 85 35.9 44.8 67.2#
 99 19.4 47.8 71.8#

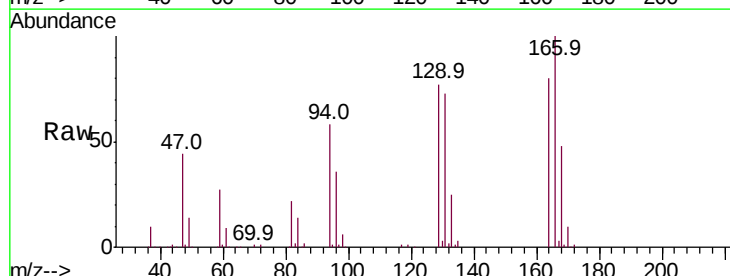


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

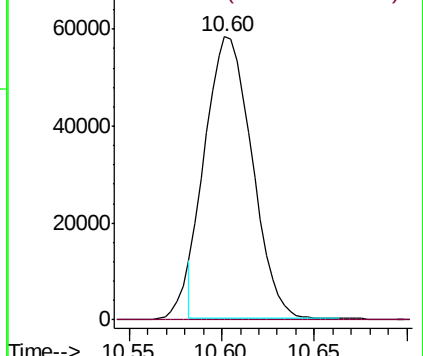
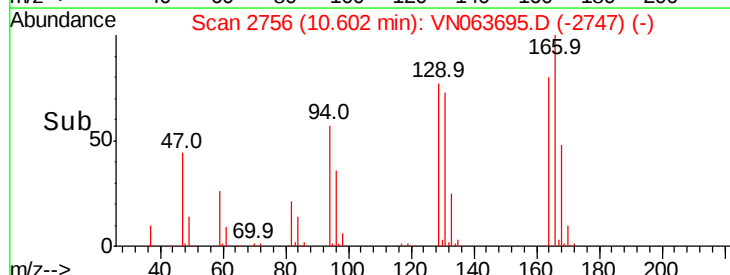


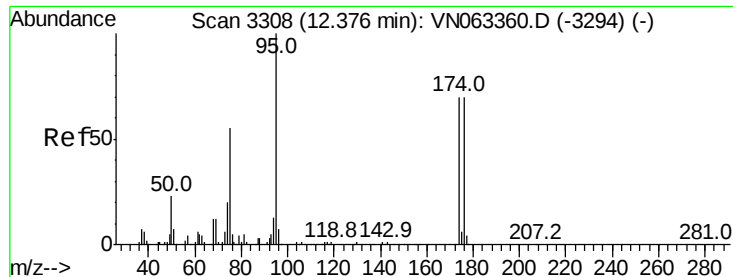
#60
 Dibromochloromethane
 Concen: 33.041 ug/l
 RT: 10.60 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN063695.D
 Acq: 25 Sep 2020 21:54

Tgt Ion: 129 Resp: 101033
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 52.372 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

MW4S

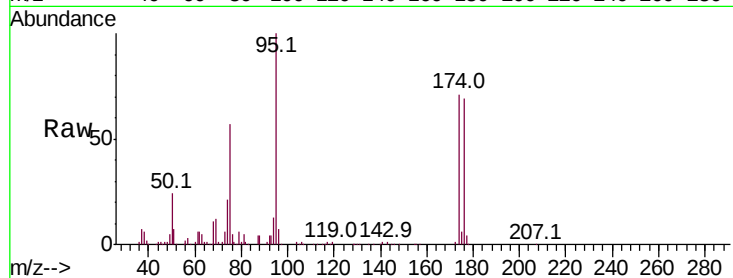
Tot Ion: 95 Resp: 186246

Ion Ratio Lower Upper

95 100

174 73.2 0.0 140.8

176 70.3 0.0 137.6



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

150000

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

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

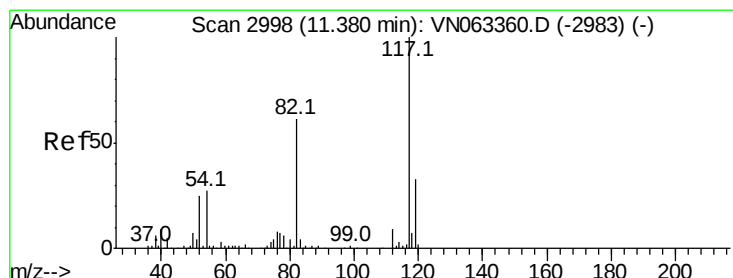
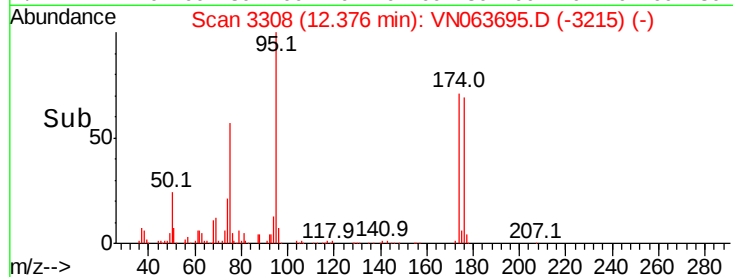
12.38

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

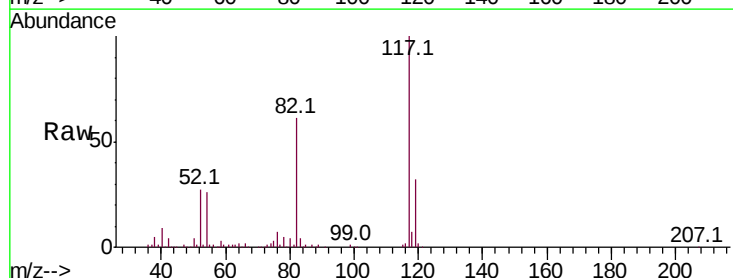
Tgt Ion: 117 Resp: 379750

Ion Ratio Lower Upper

117 100

82 61.2 49.2 73.8

119 31.9 26.2 39.4



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

300000

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

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

11.38

250000

200000

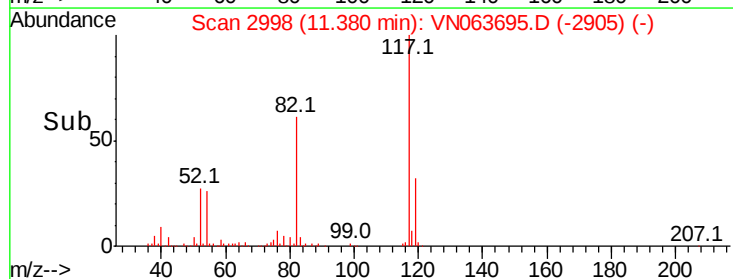
150000

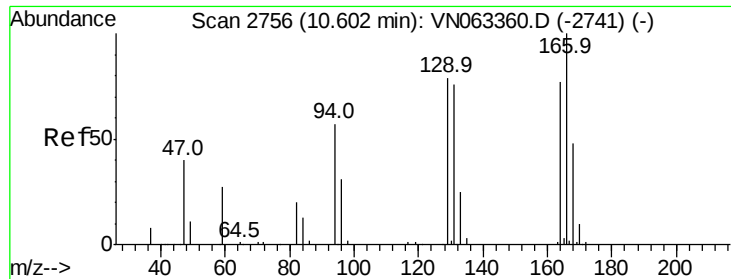
100000

50000

0

Time-->





#64

Tetrachloroethene

Concen: 41.337 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

MW4S

Tot Ion:164 Resp: 106890

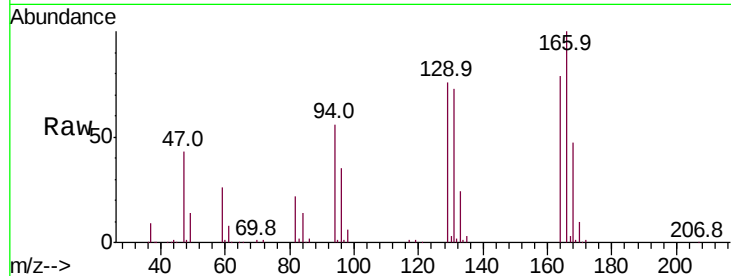
Ion Ratio Lower Upper

164 100

166 126.2 103.4 155.0

129 95.4 81.8 122.6

131 92.0 78.2 117.4

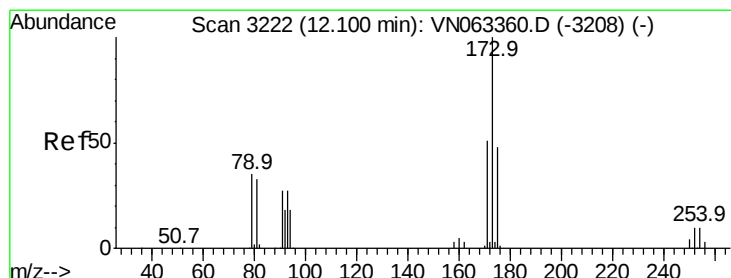
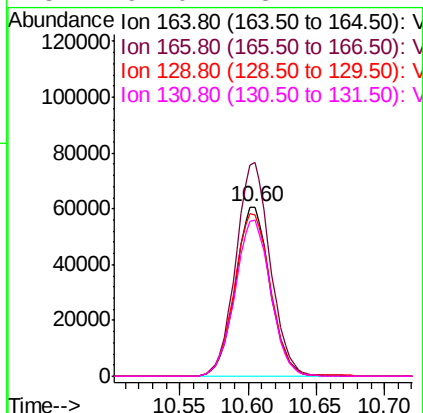
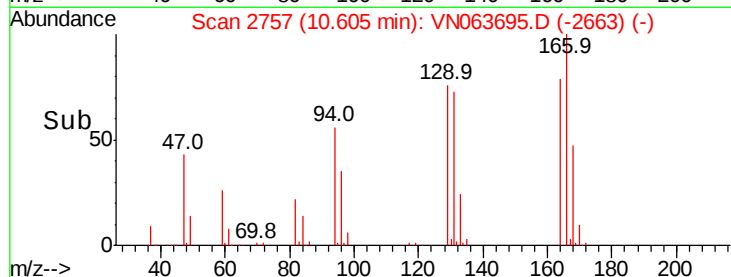


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 0.279 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

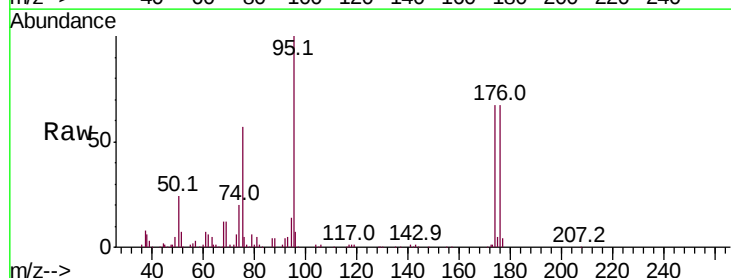
Tgt Ion:173 Resp: 615

Ion Ratio Lower Upper

173 100

175 1423.4 24.0 72.0#

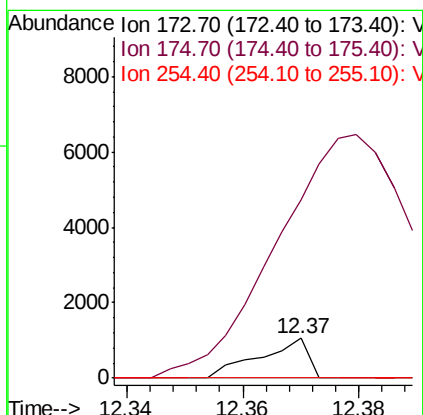
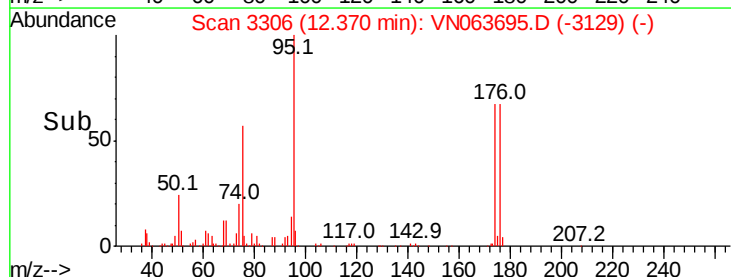
254 0.0 0.0 0.0

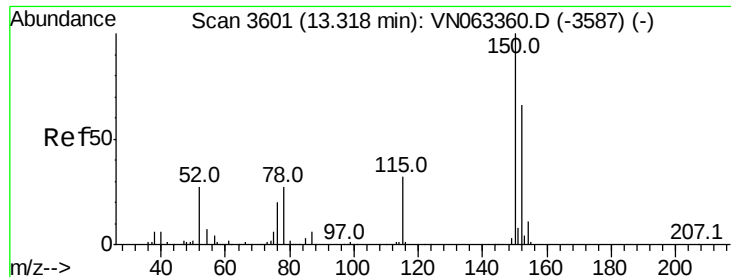


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3601

Delta R.T. -0.00 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampled :

MW4S

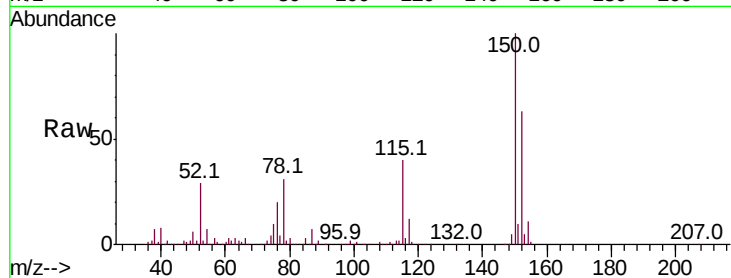
Tot Ion:152 Resp: 159928

Ion Ratio Lower Upper

152 100

115 62.9 32.2 96.6

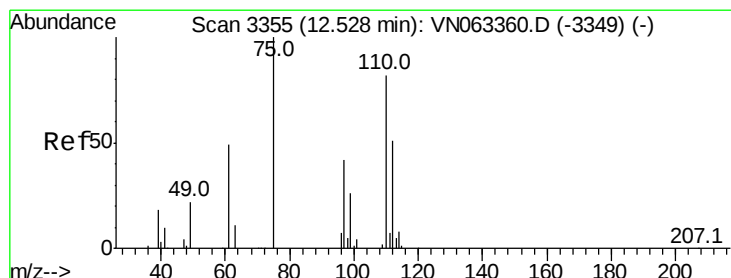
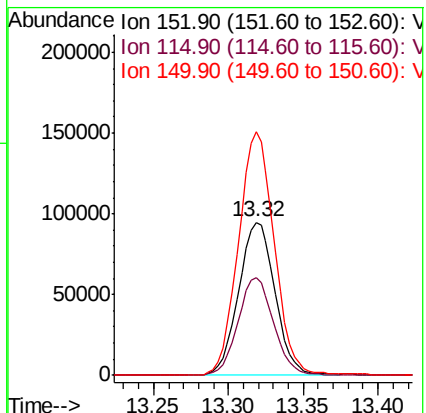
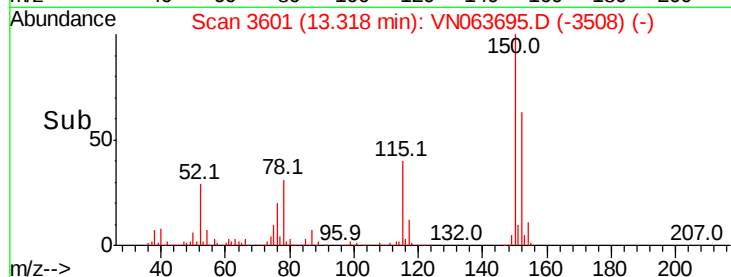
150 157.6 0.0 343.4



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: 26.858 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063695.D

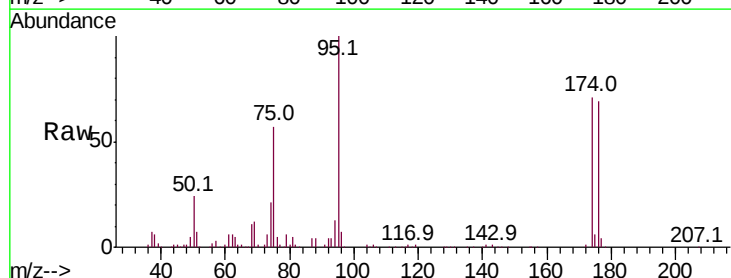
Acq: 25 Sep 2020 21:54

Tgt Ion: 75 Resp: 106314

Ion Ratio Lower Upper

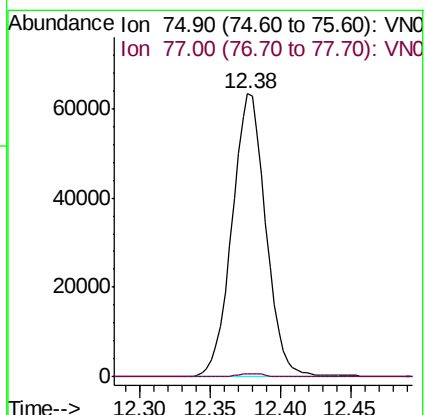
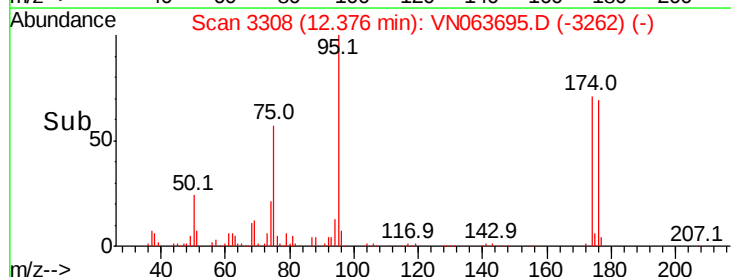
75 100

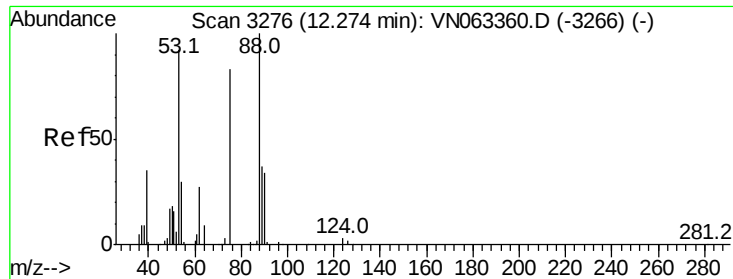
77 1.0 0.0 0.0#



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: 73.633 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063695.D

Acq: 25 Sep 2020 21:54

Instrument :

MSVOA_N

ClientSampleId :

MW4S

Tot Ion: 75 Resp: 106314

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

