

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063468.D
 Acq On : 18 Sep 2020 19:25
 Operator : JC/MD
 Sample : L3871-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-091720

Quant Time: Sep 21 01:36:47 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

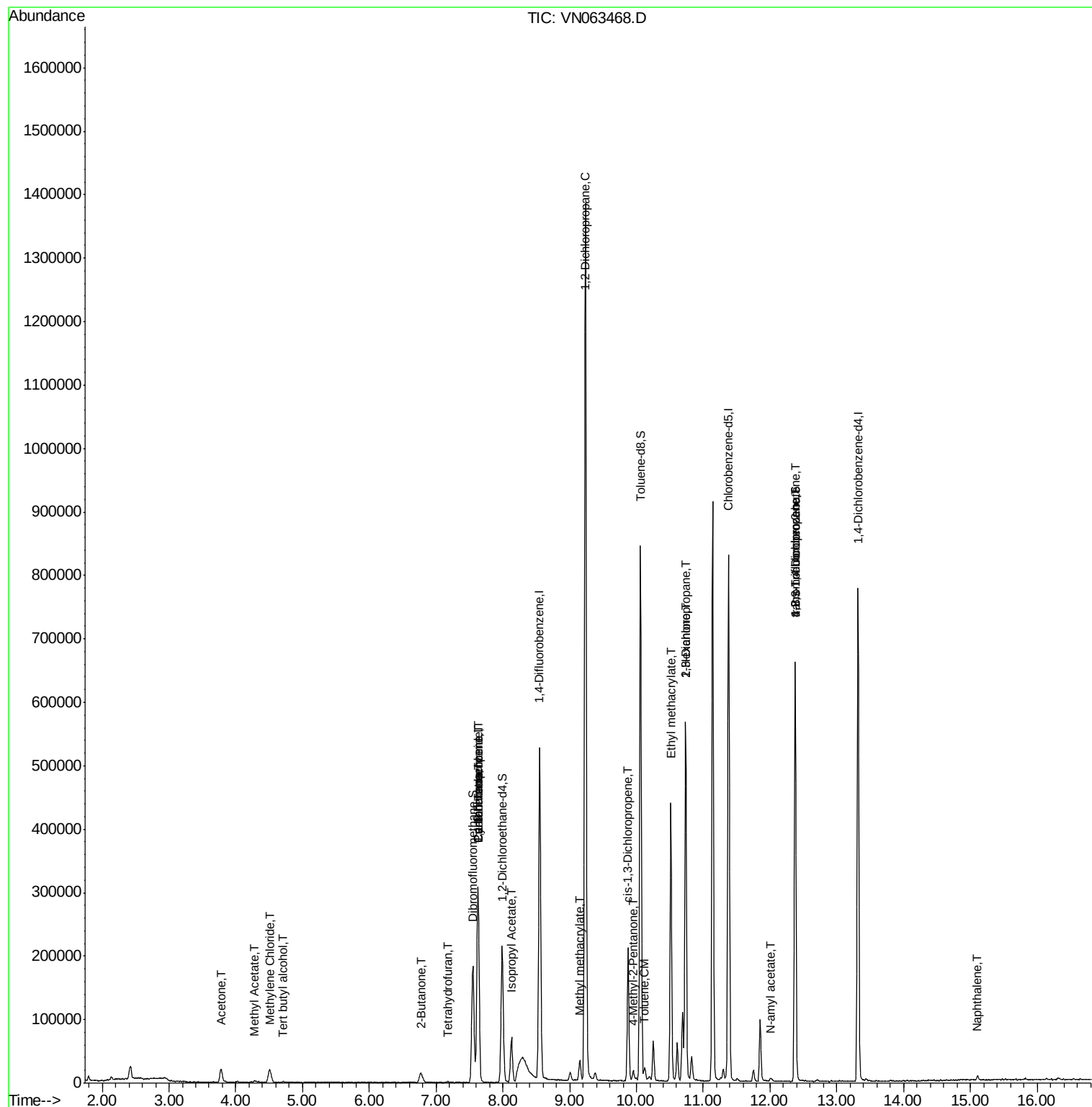
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	226510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427961	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	434458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	187849	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	189386	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
35) Dibromofluoromethane	7.55	113	135480	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	
50) Toluene-d8	10.06	98	555565	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
62) 4-Bromofluorobenzene	12.38	95	218659	53.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.08%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.72	59	1298	2.430	ug/l #	72
16) Acetone	3.78	43	35725	28.829	ug/l	94
18) Methyl Acetate	4.28	43	3338	1.061	ug/l	91
20) Methylene Chloride	4.51	84	14787	4.710	ug/l	88
25) 2-Butanone	6.78	43	1555	0.816	ug/l	96
29) Tetrahydrofuran	7.17	42	932	0.716	ug/l #	59
31) Cyclohexane	7.62	56	6411	1.204	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	21106	4.629	ug/l #	51
38) Carbon Tetrachloride	7.63	117	24938	5.358	ug/l #	18
43) Isopropyl Acetate	8.13	43	84649	10.579	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1825	0.515	ug/l #	43
48) Methyl methacrylate	9.15	41	4711	1.198	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	9573	2.137	ug/l	97
52) Toluene	10.13	92	7547	0.964	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	35503	6.229	ug/l #	62
56) Ethyl methacrylate	10.52	69	1324	0.273	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5549	0.990	ug/l #	42
59) 2-Hexanone	10.74	43	87511	26.966	ug/l #	55
74) N-amyl acetate	12.01	43	4039	0.567	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	124588	26.796	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124588	73.464	ug/l #	7
95) Naphthalene	15.11	128	5926	0.494	ug/l #	93

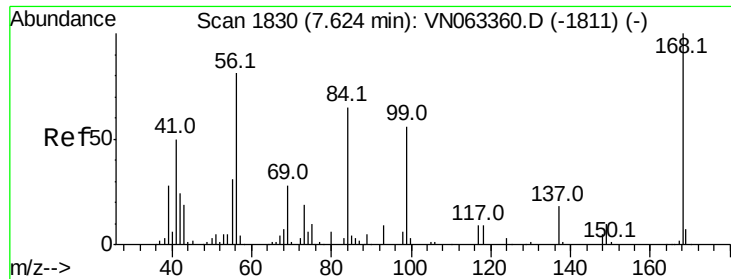
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091820\
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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: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

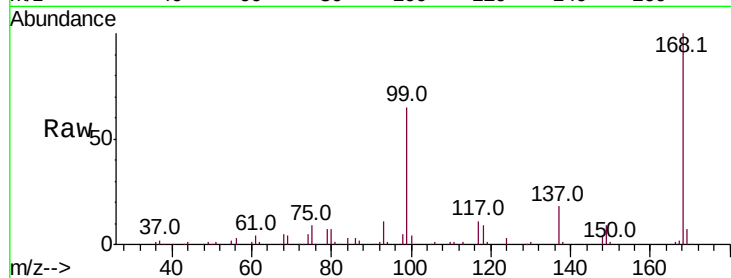
TR-08-091720

Tot Ion:168 Resp: 226510

Ion Ratio Lower Upper

168 100

99 65.3 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

100000

80000

60000

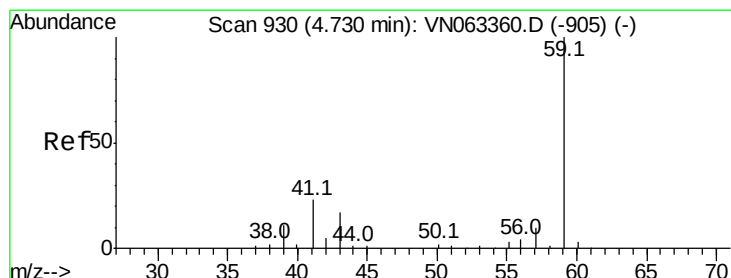
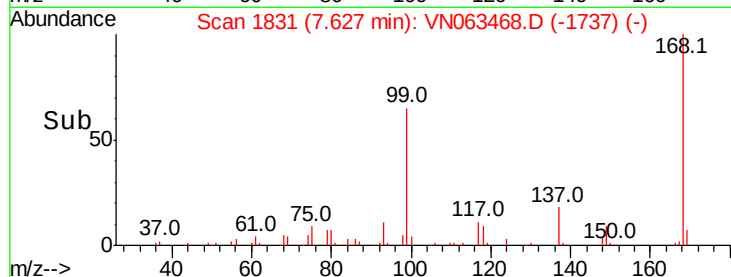
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 2.430 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063468.D

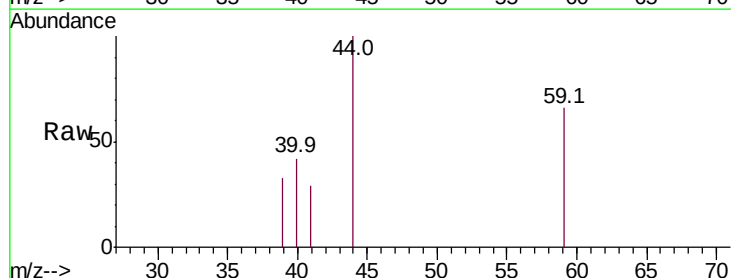
Acq: 18 Sep 2020 19:25

Tgt Ion: 59 Resp: 1298

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.72

500

400

300

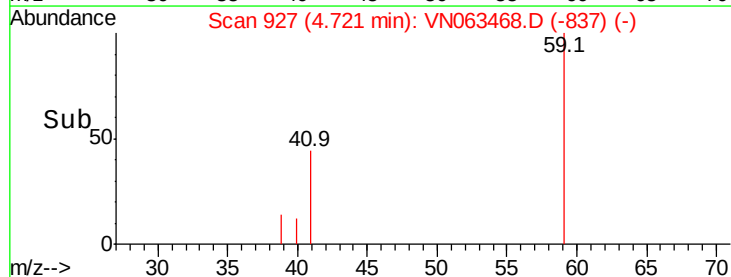
200

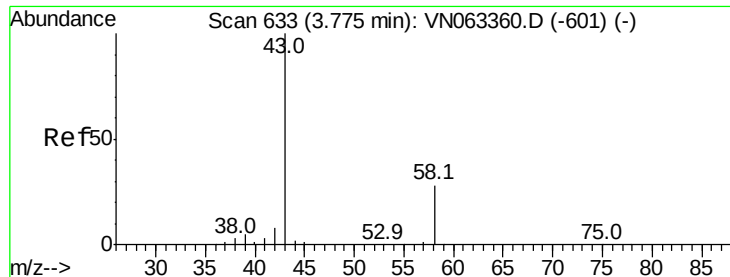
100

0

Time-->

4.65 4.70 4.75





#16

Acetone

Concen: 28.829 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

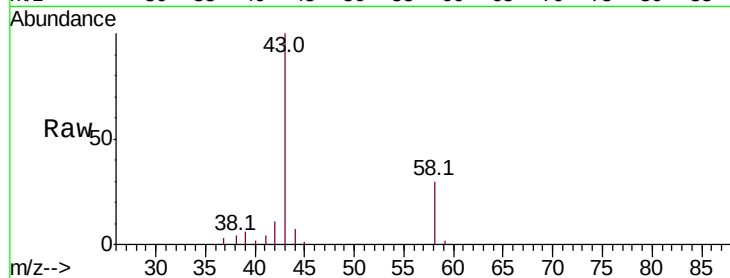
TR-08-091720

Tot Ion: 43 Resp: 35725

Ion Ratio Lower Upper

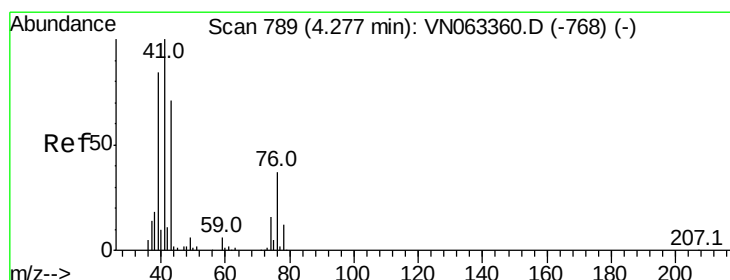
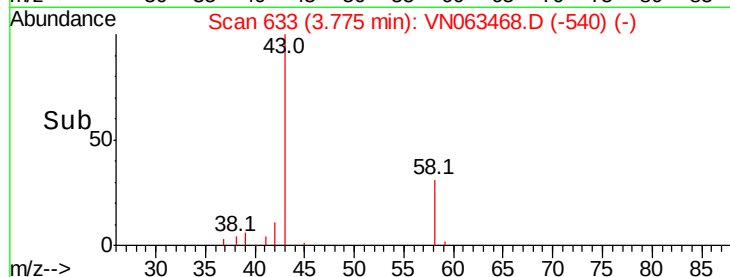
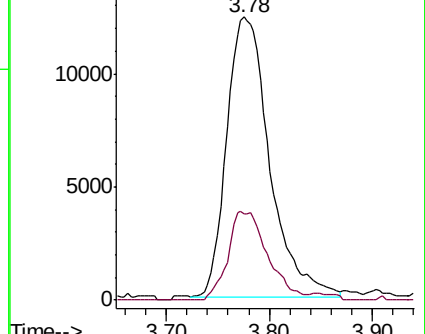
43 100

58 30.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.061 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063468.D

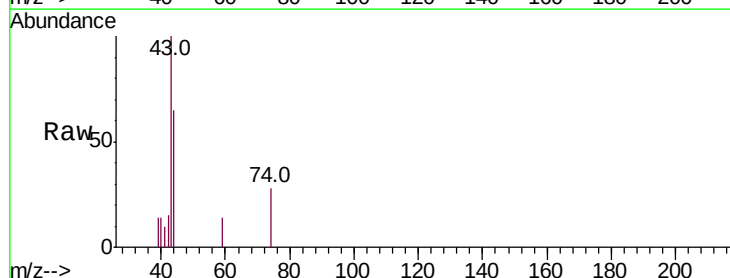
Acq: 18 Sep 2020 19:25

Tgt Ion: 43 Resp: 3338

Ion Ratio Lower Upper

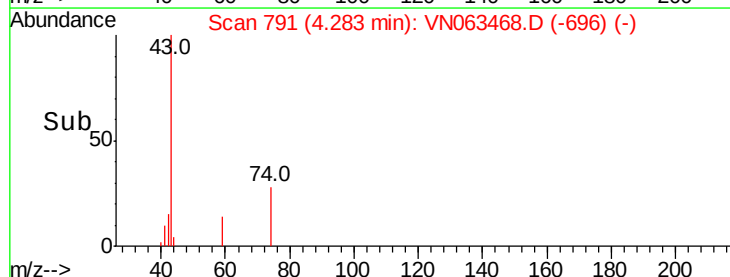
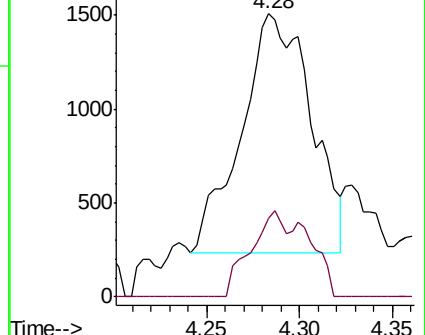
43 100

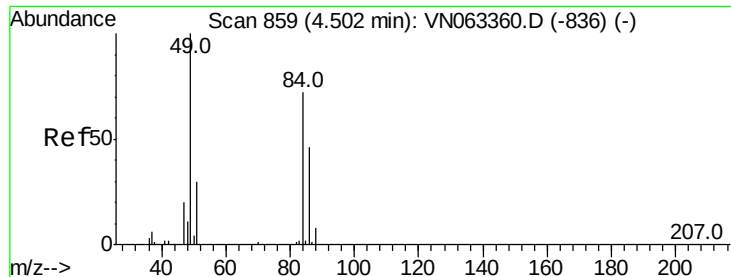
74 17.7 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

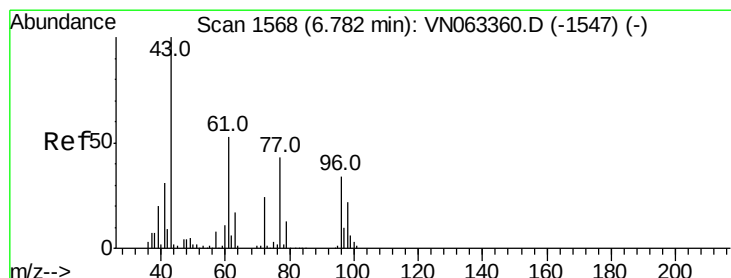
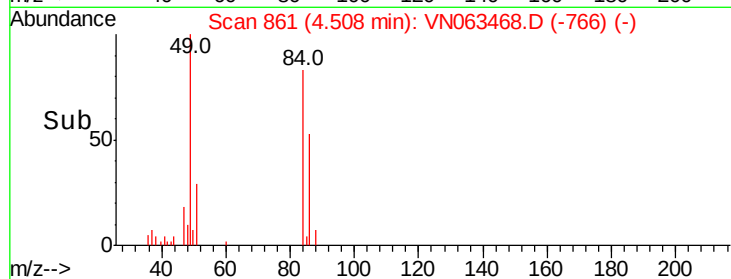
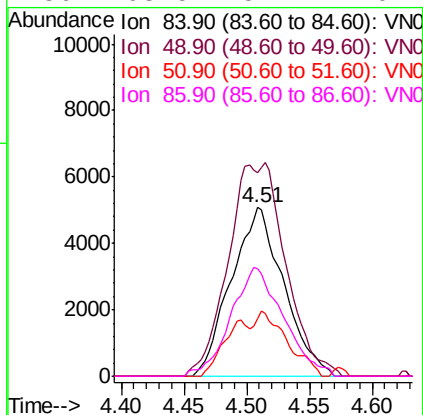
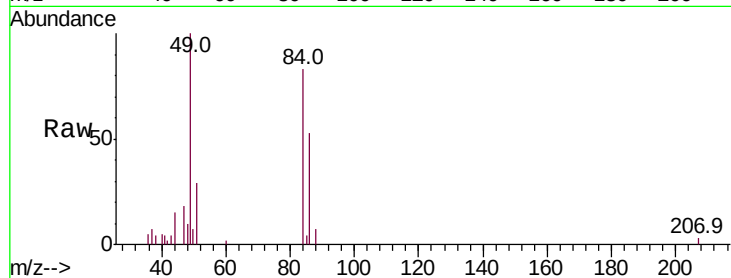




#20
Methvlene Chloride
Concen: 4.710 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063468.D
Acq: 18 Sep 2020 19:25

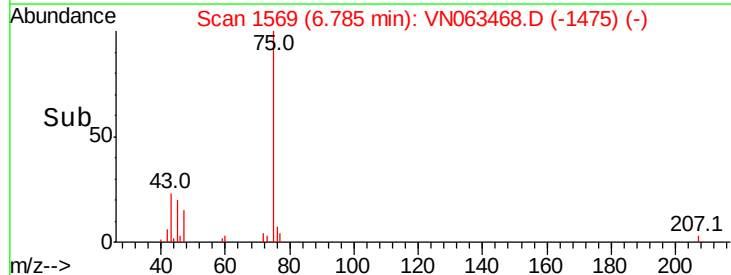
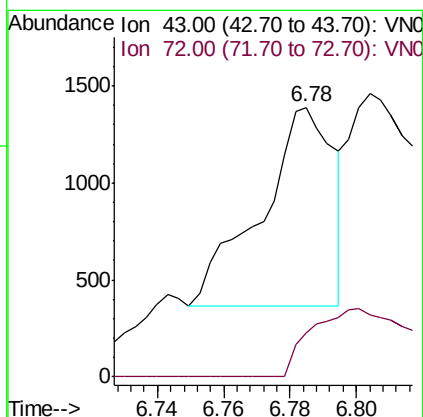
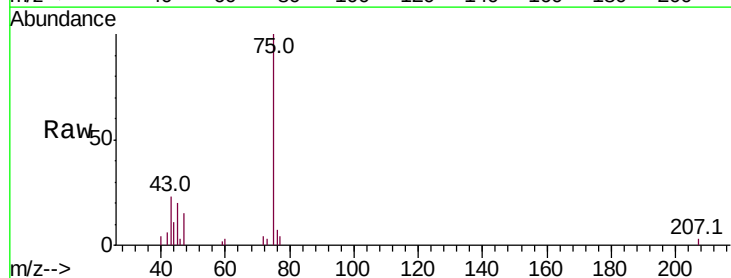
Instrument :
MSVOA_N
ClientSampleId :
TR-08-091720

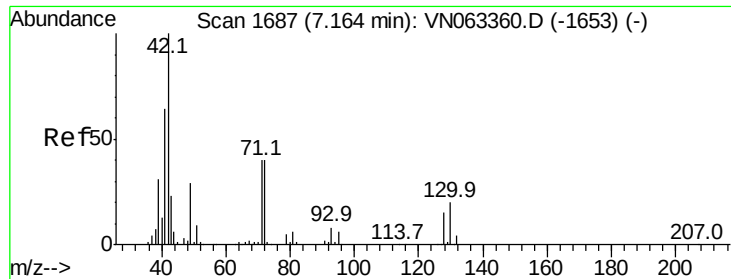
Tot Ion:	84	Resp:	14787
Ion	Ratio	Lower	Upper
84	100		
49	117.6	110.7	166.1
51	34.4	32.9	49.3
86	63.5	51.1	76.7



#25
2-Butanone
Concen: 0.816 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN063468.D
Acq: 18 Sep 2020 19:25

Tgt Ion:	43	Resp:	1555
Ion	Ratio	Lower	Upper
43	100		
72	21.9	19.2	28.8





#29

Tetrahydrofuran

Concen: 0.716 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

TR-08-091720

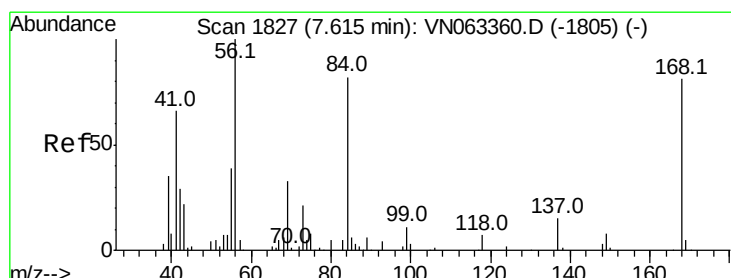
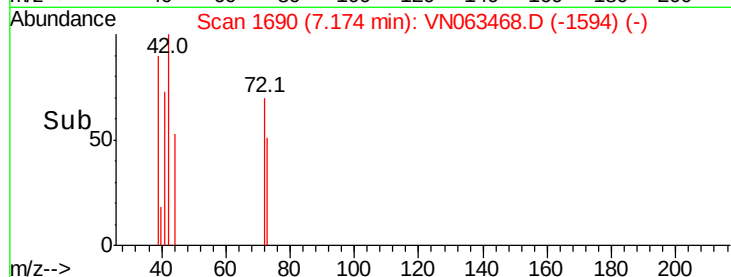
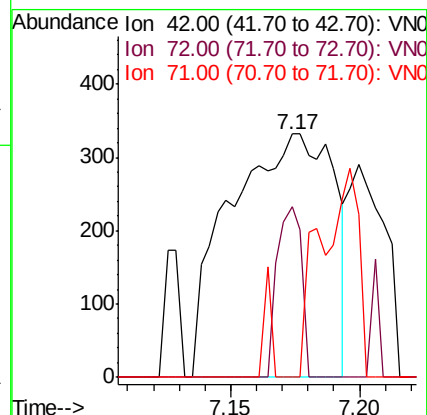
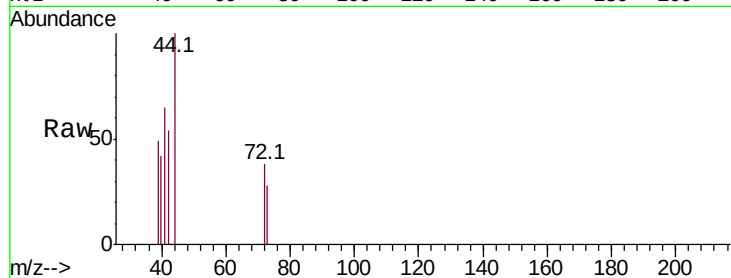
Tot Ion: 42 Resp: 932

Ion Ratio Lower Upper

42 100

72 16.6 32.1 48.1#

71 11.8 31.2 46.8#



#31

Cyclohexane

Concen: 1.204 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

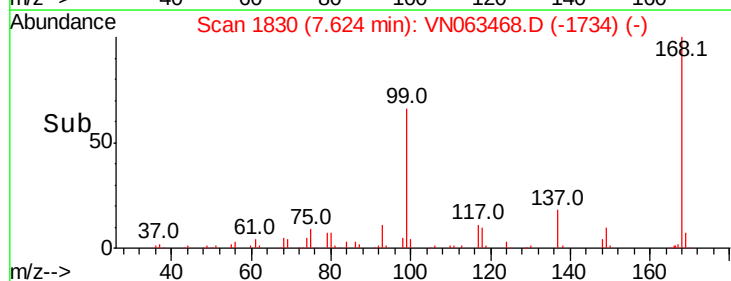
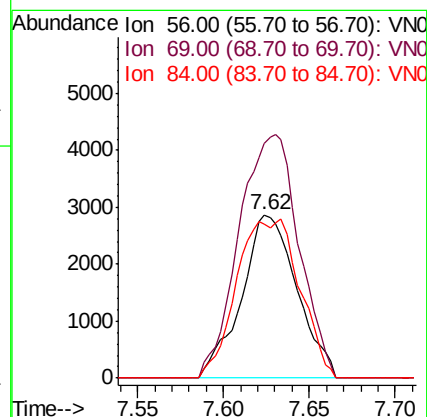
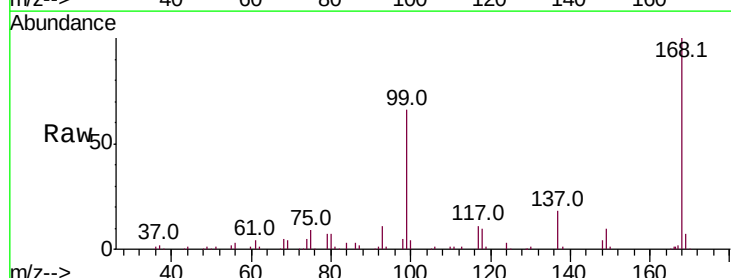
Tgt Ion: 56 Resp: 6411

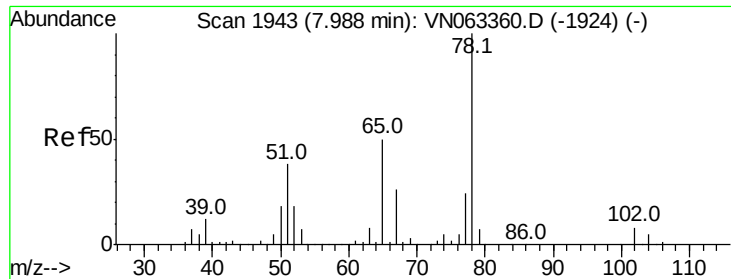
Ion Ratio Lower Upper

56 100

69 143.7 26.1 39.1#

84 94.4 65.4 98.2

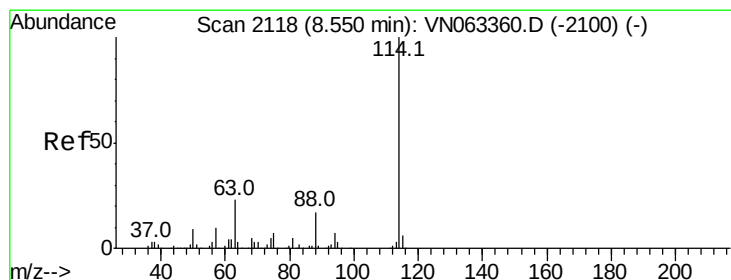
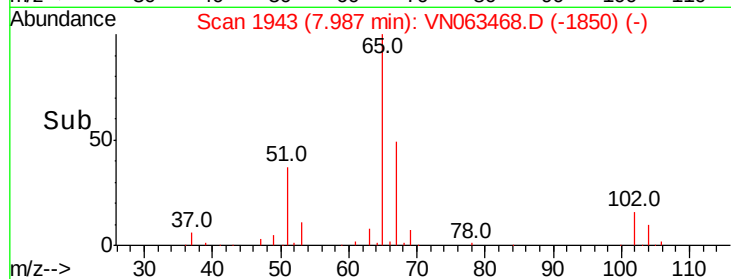
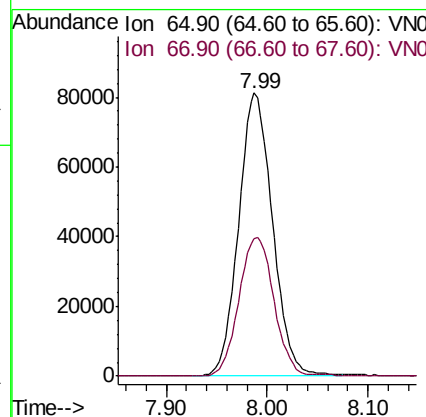
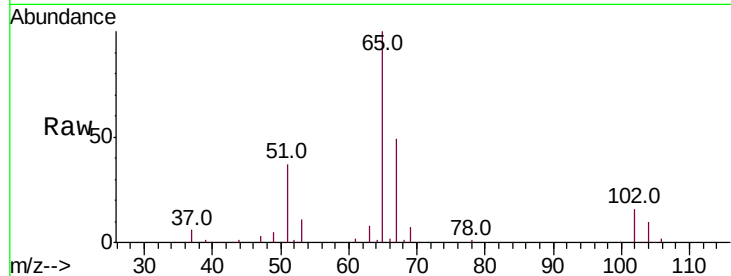




#33
 1,2-Dichloroethane-d4
 Concen: 49.117 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063468.D
 Acq: 18 Sep 2020 19:25

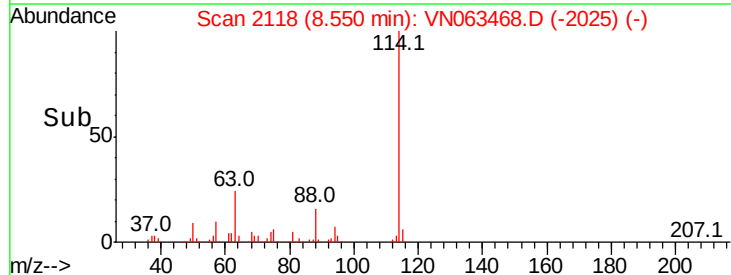
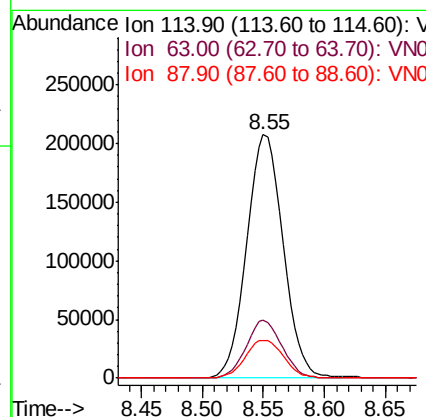
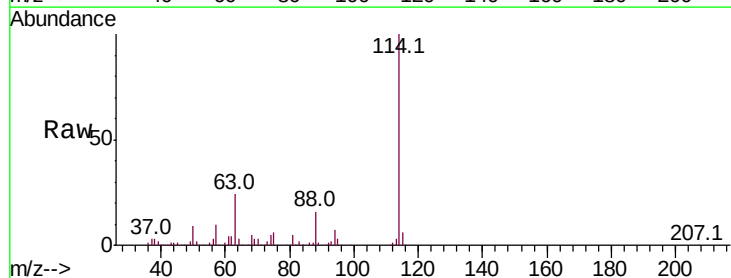
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-091720

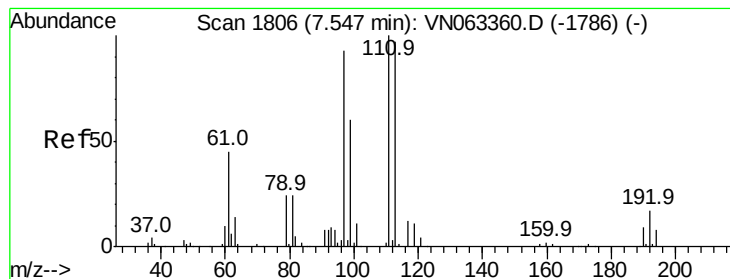
Tot Ion: 65 Resp: 189386
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063468.D
 Acq: 18 Sep 2020 19:25

Tgt Ion: 114 Resp: 427961
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 46.4
 88 15.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 45.729 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

TR-08-091720

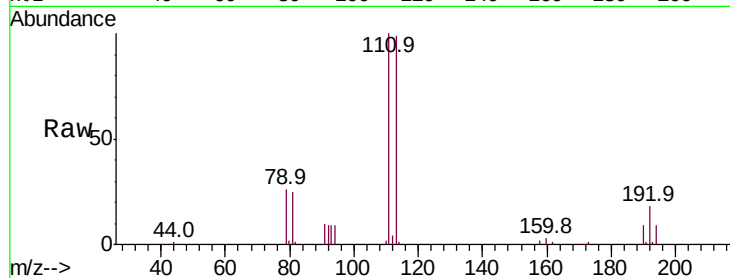
Tot Ion:113 Resp: 135480

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

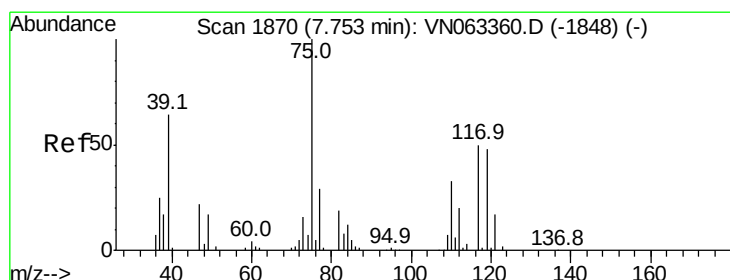
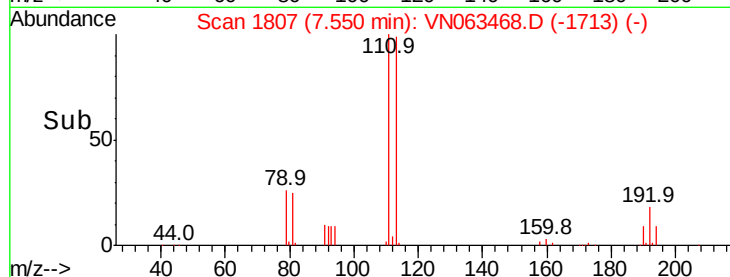
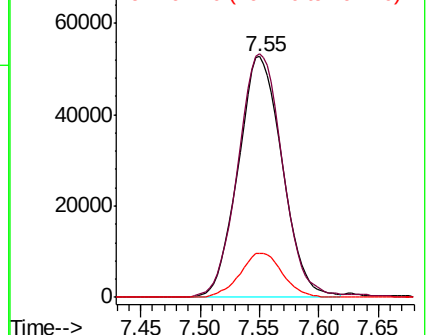
192 17.7 13.9 20.9



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: 4.629 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

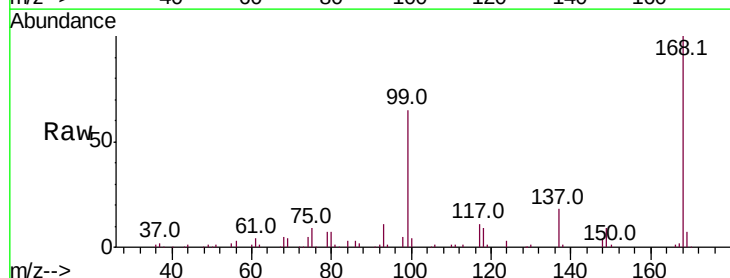
Tgt Ion: 75 Resp: 21106

Ion Ratio Lower Upper

75 100

110 8.9 16.5 49.5#

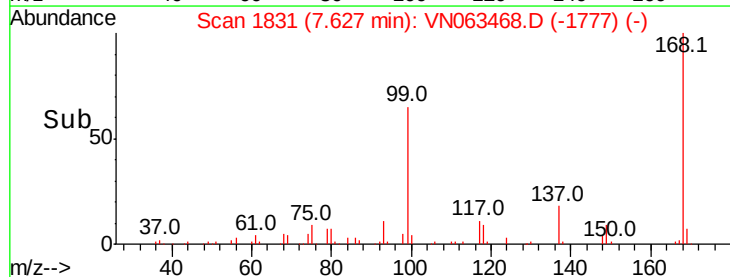
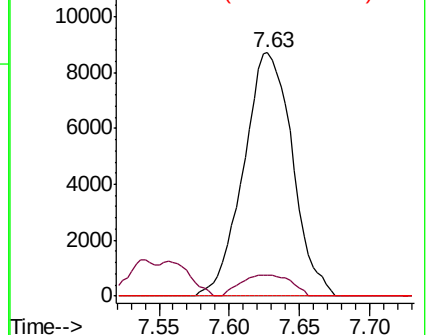
77 0.0 24.6 36.8#

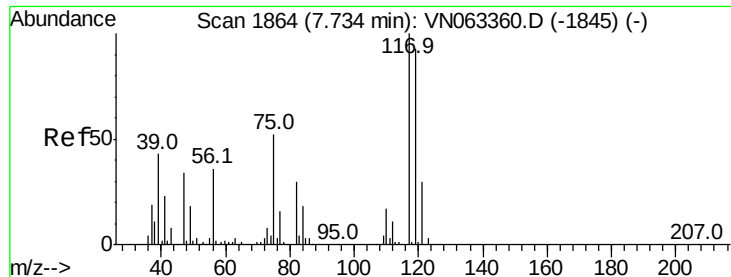


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.358 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

TR-08-091720

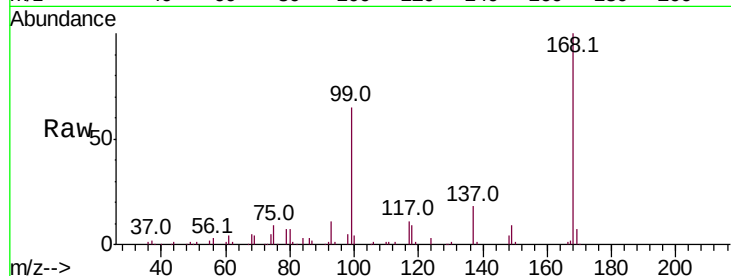
Tot Ion:117 Resp: 24938

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

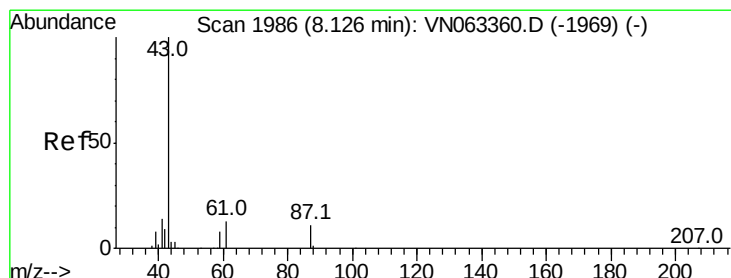
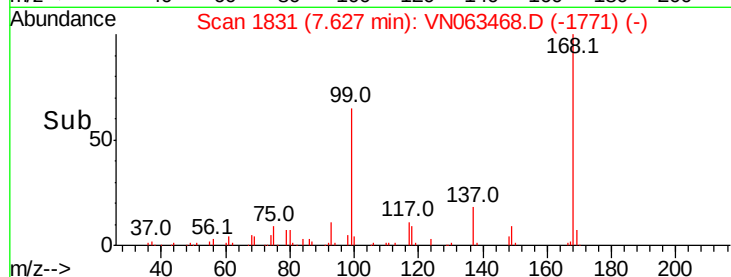
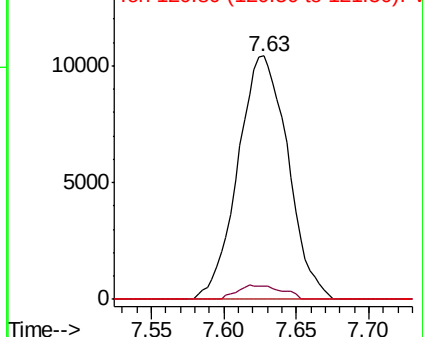
121 0.0 24.1 36.1#



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



#43

Isopropyl Acetate

Concen: 10.579 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

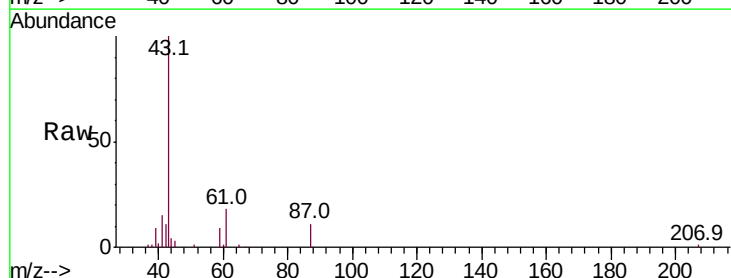
Tgt Ion: 43 Resp: 84649

Ion Ratio Lower Upper

43 100

61 18.6 14.2 21.2

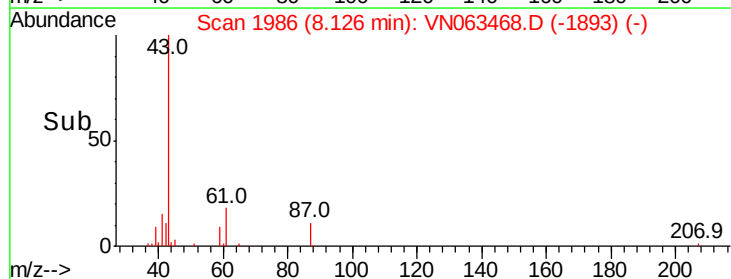
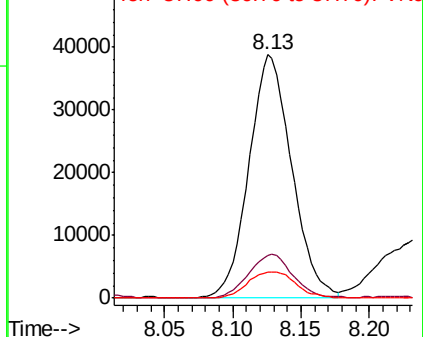
87 12.0 9.0 13.6

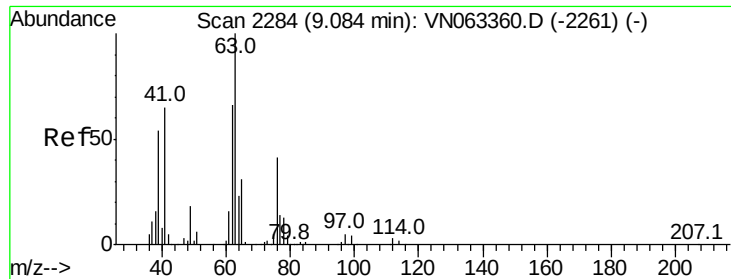


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

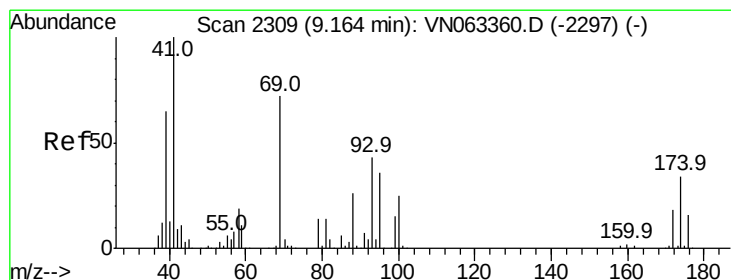
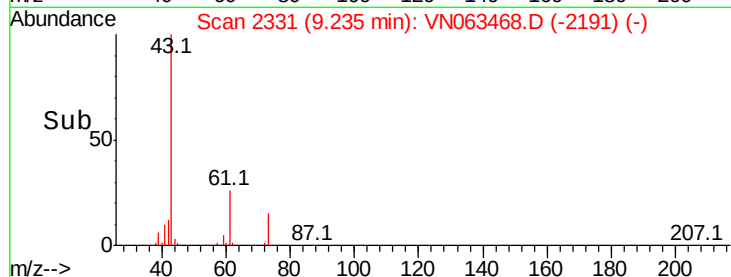
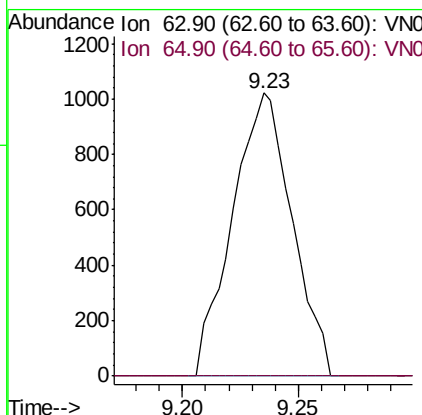
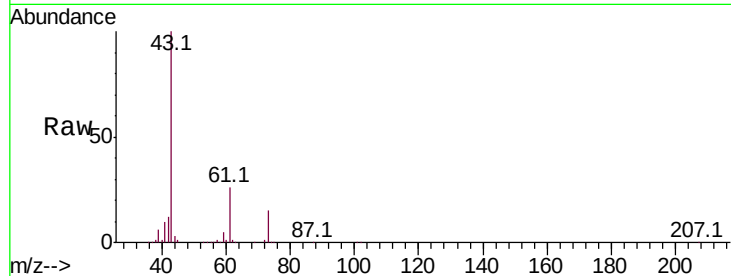




#45
 1,2-Dichloropropane
 Concen: 0.515 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN063468.D
 Acq: 18 Sep 2020 19:25

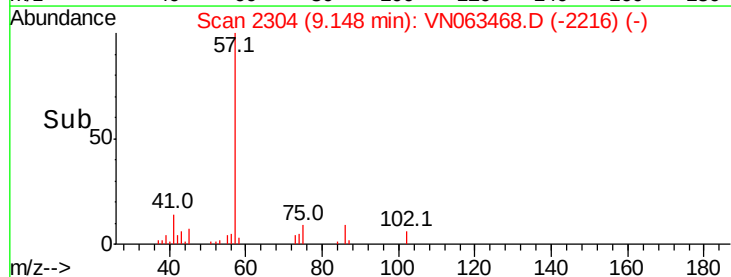
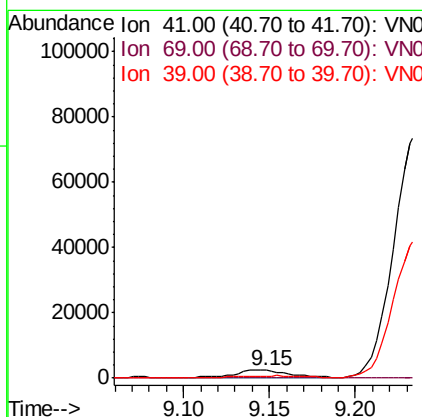
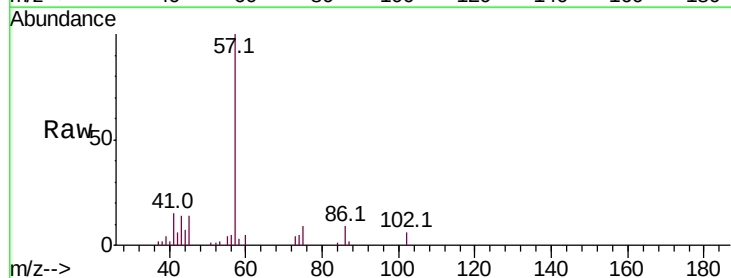
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-08-091720

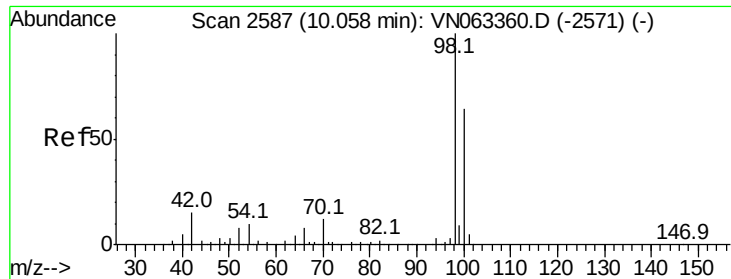
Tot Ion: 63 Resp: 1825
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.198 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN063468.D
 Acq: 18 Sep 2020 19:25

Tgt Ion: 41 Resp: 4711
 Ion Ratio Lower Upper
 41 100
 69 0.0 59.3 88.9#
 39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 49.870 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

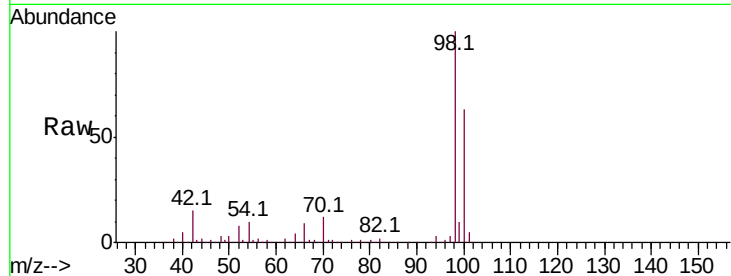
TR-08-091720

Tot Ion: 98 Resp: 555565

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

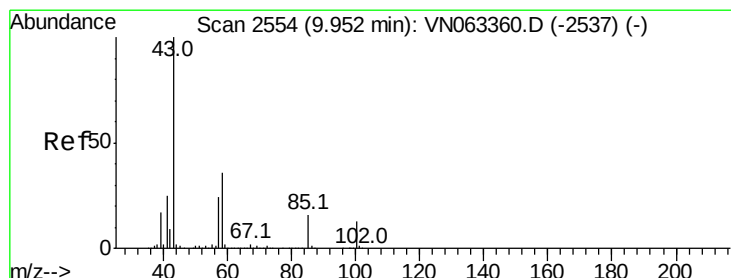
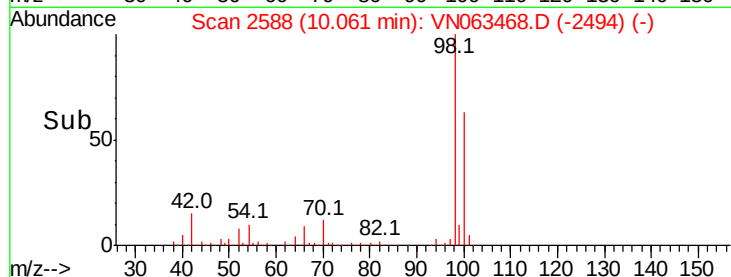
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.137 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063468.D

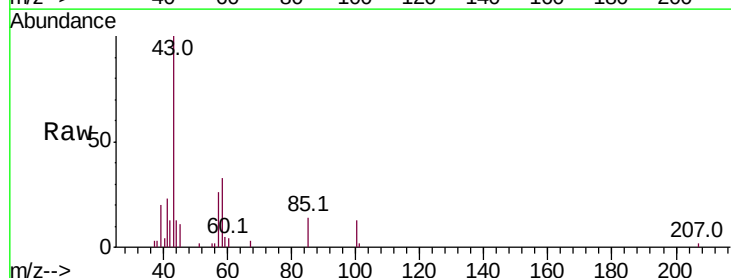
Acq: 18 Sep 2020 19:25

Tgt Ion: 43 Resp: 9573

Ion Ratio Lower Upper

43 100

58 37.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

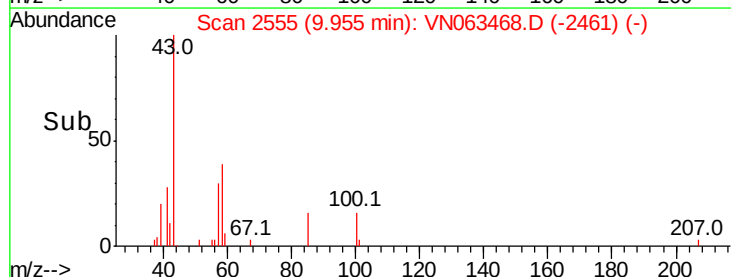
6000

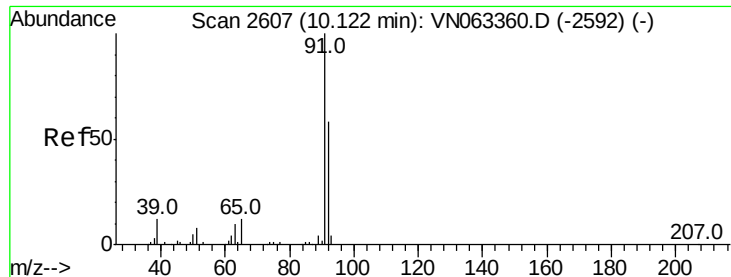
4000

2000

0

Time-->





#52

Toluene

Concen: 0.964 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

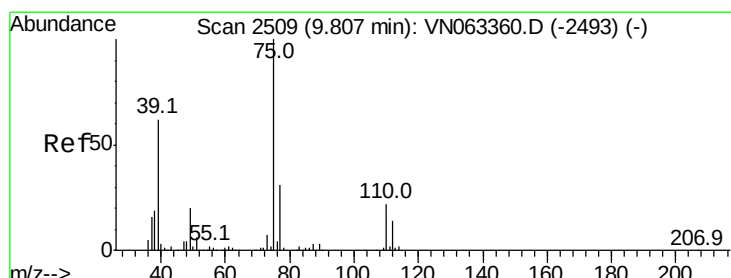
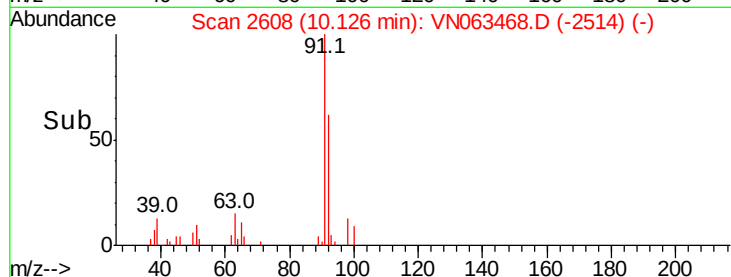
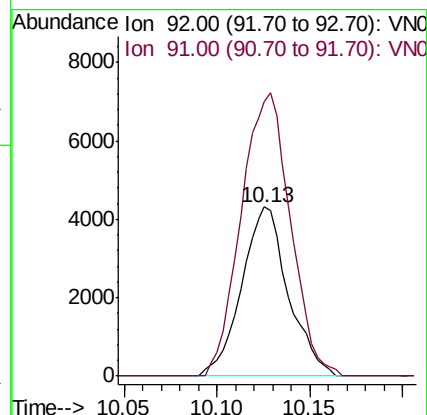
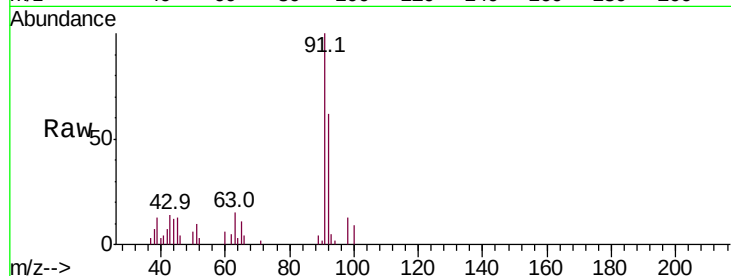
TR-08-091720

Tot Ion: 92 Resp: 7547

Ion Ratio Lower Upper

92 100

91 177.0 139.7 209.5



#54

cis-1,3-Dichloropropene

Concen: 6.229 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

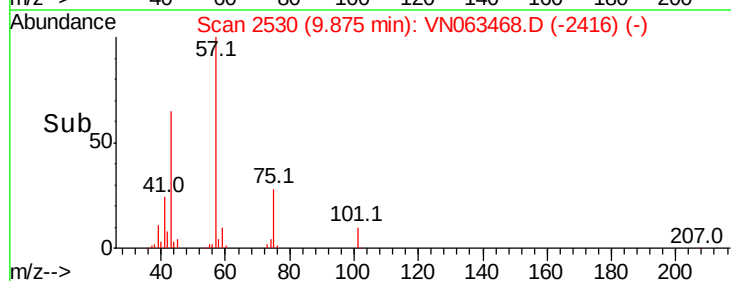
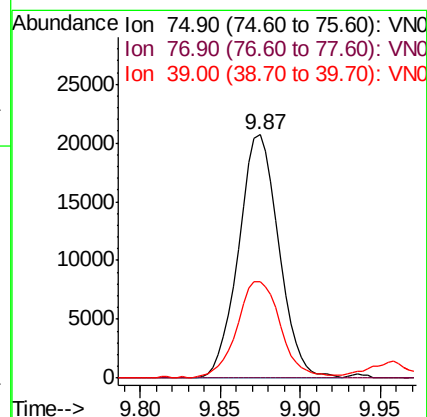
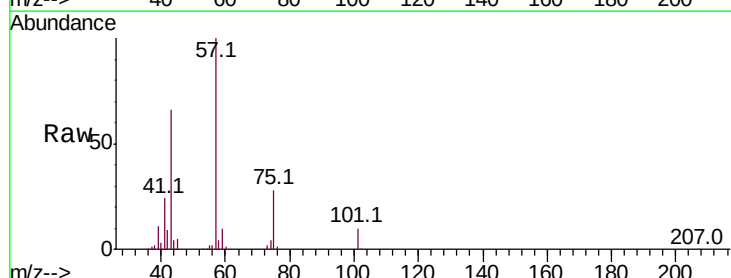
Tgt Ion: 75 Resp: 35503

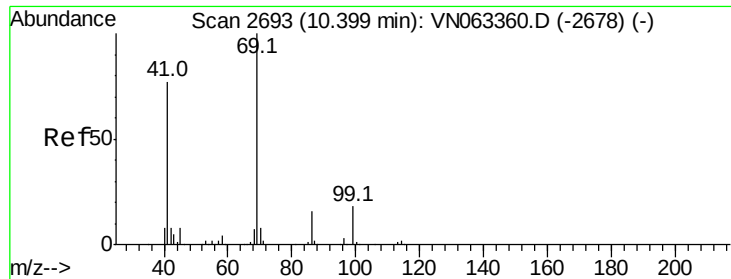
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 39.4 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.273 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

TR-08-091720

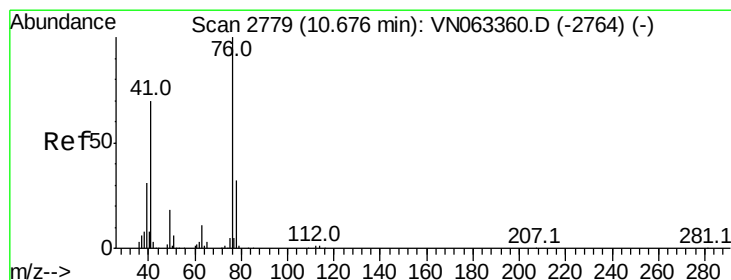
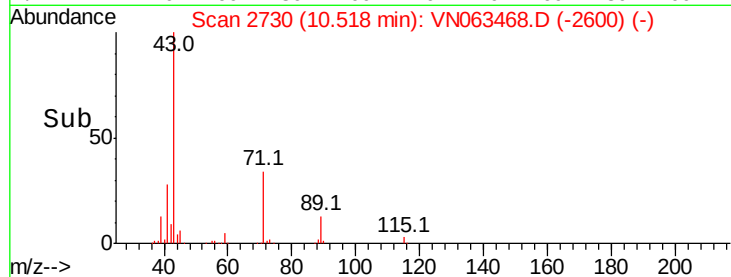
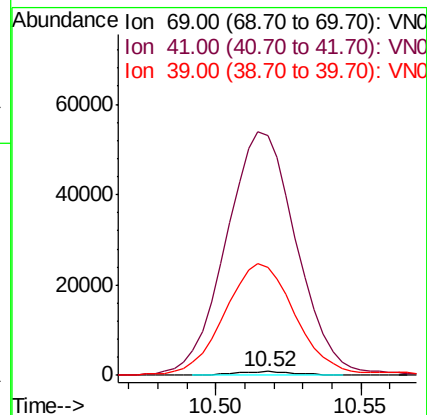
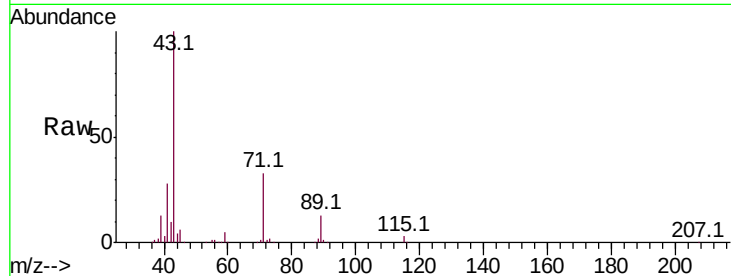
Tot Ion: 69 Resp: 1324

Ion Ratio Lower Upper

69 100

41 6847.7 61.0 91.6#

39 3191.9 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.990 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063468.D

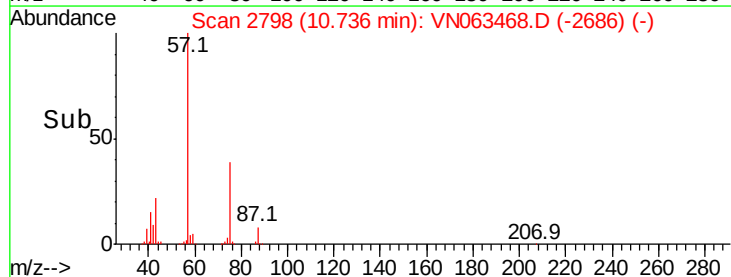
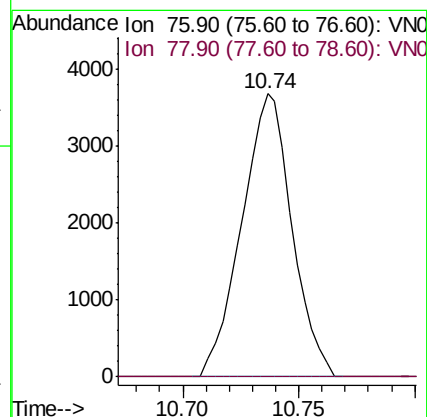
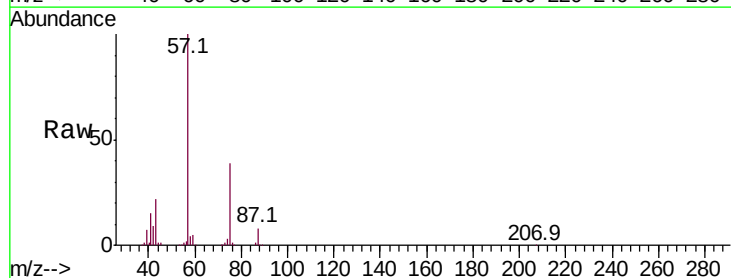
Acq: 18 Sep 2020 19:25

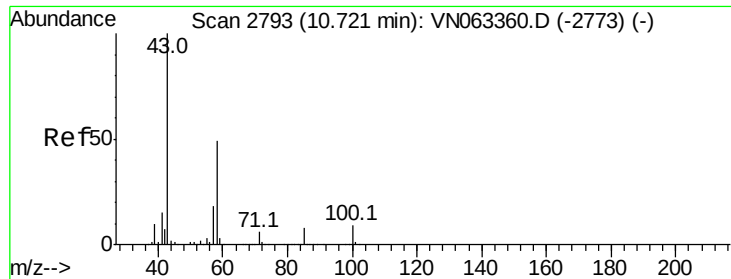
Tgt Ion: 76 Resp: 5549

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 26.966 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

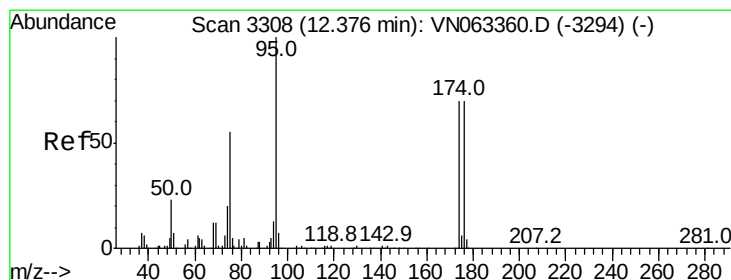
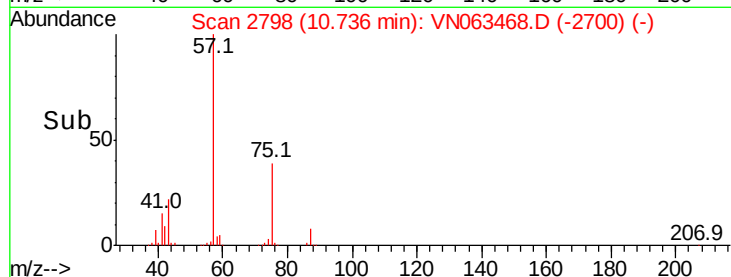
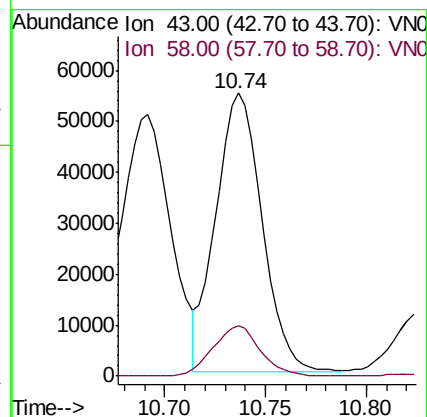
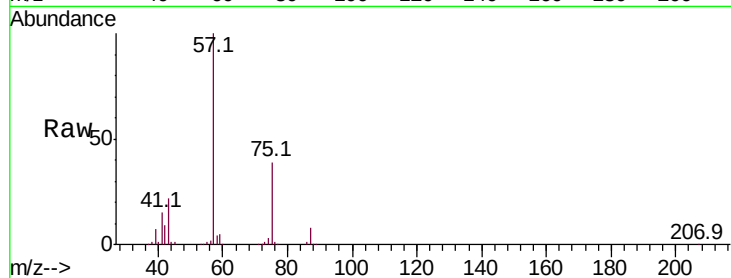
TR-08-091720

Tot Ion: 43 Resp: 87511

Ion Ratio Lower Upper

43 100

58 18.4 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.543 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

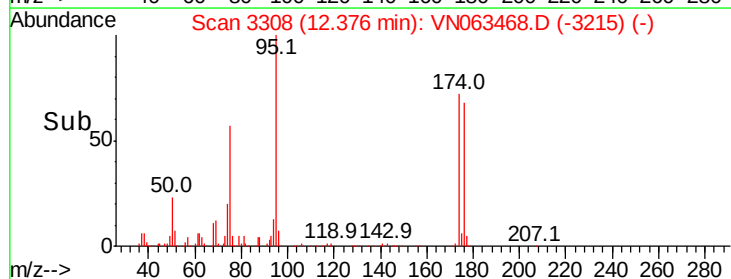
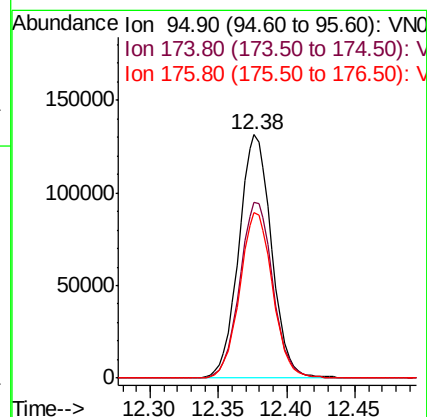
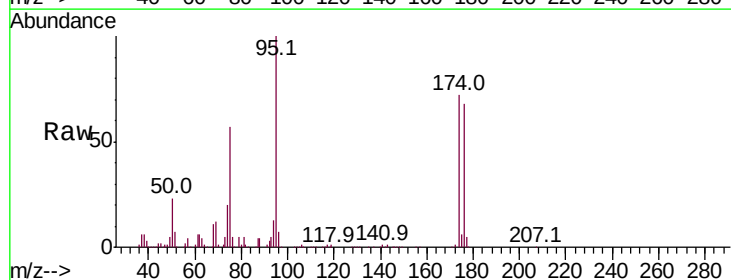
Tgt Ion: 95 Resp: 218659

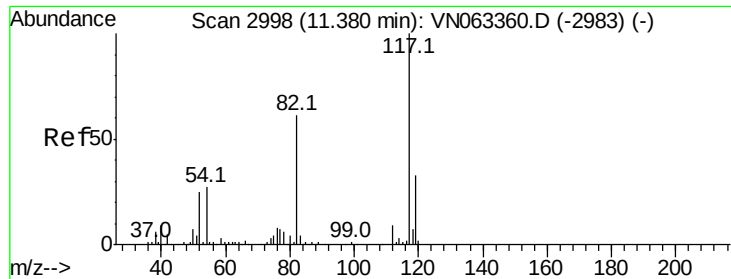
Ion Ratio Lower Upper

95 100

174 73.1 0.0 140.8

176 68.4 0.0 137.6

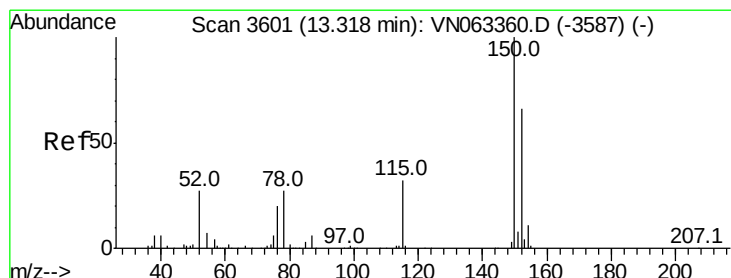
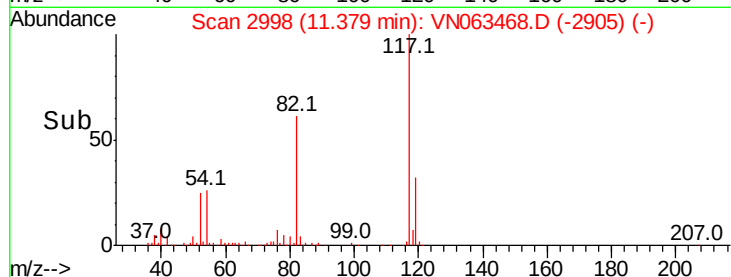
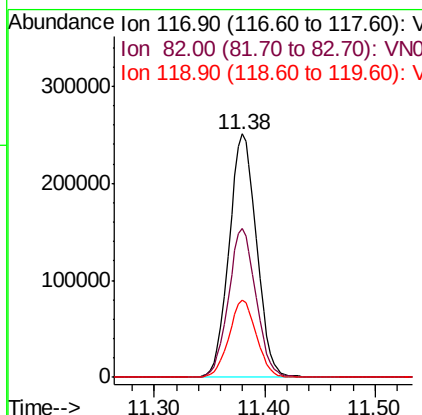
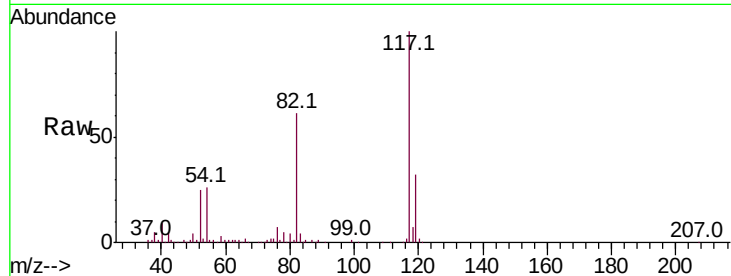




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063468.D
Acq: 18 Sep 2020 19:25

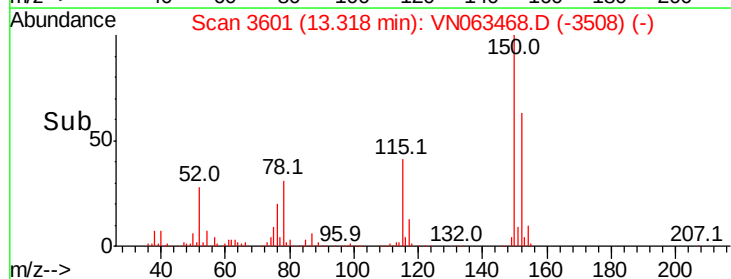
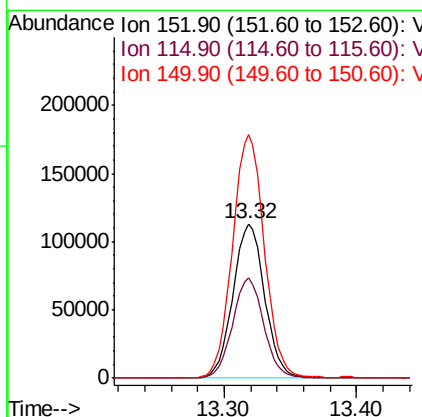
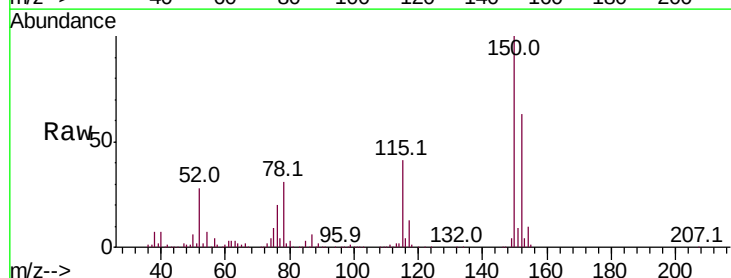
Instrument :
MSVOA_N
ClientSampleId :
TR-08-091720

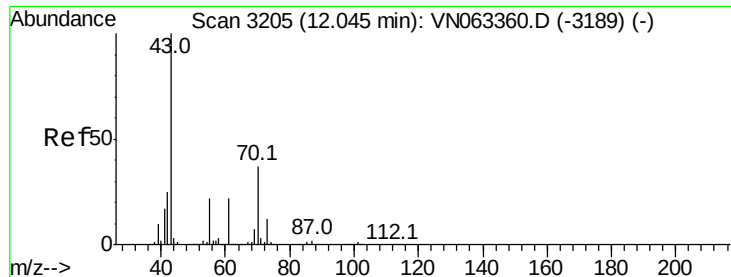
Tot Ion:117 Resp: 434458
Ion Ratio Lower Upper
117 100
82 61.0 49.2 73.8
119 31.8 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063468.D
Acq: 18 Sep 2020 19:25

Tgt Ion:152 Resp: 187849
Ion Ratio Lower Upper
152 100
115 63.6 32.2 96.6
150 158.3 0.0 343.4





#74

N-amvl acetate

Concen: 0.567 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

TR-08-091720

Tot Ion: 43 Resp: 4039

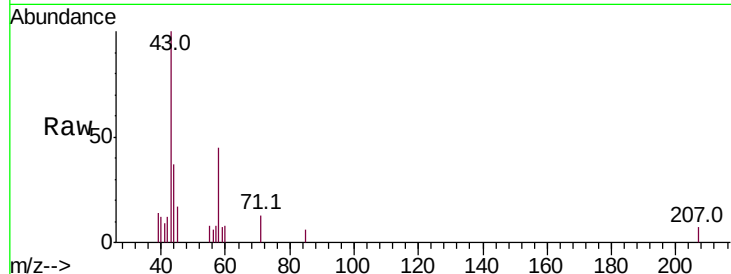
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 3.1 17.7 26.5#

61 0.0 17.4 26.2#

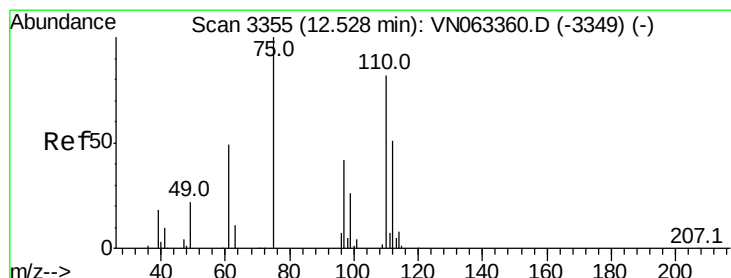
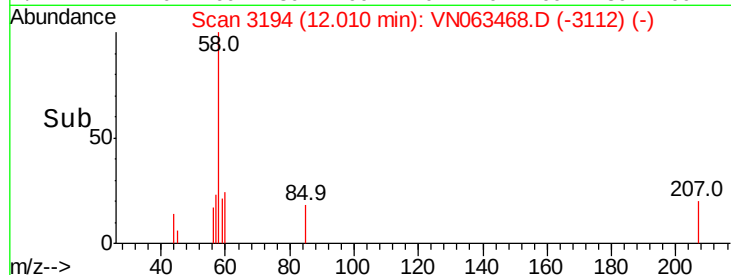
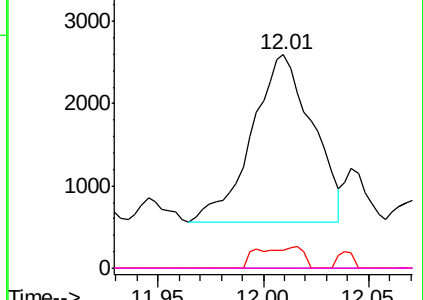


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.796 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063468.D

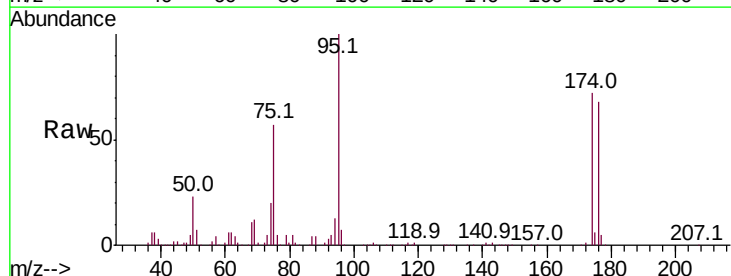
Acq: 18 Sep 2020 19:25

Tgt Ion: 75 Resp: 124588

Ion Ratio Lower Upper

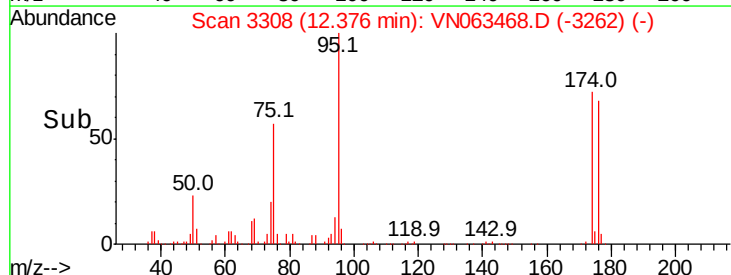
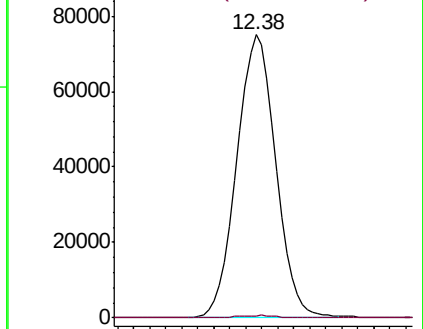
75 100

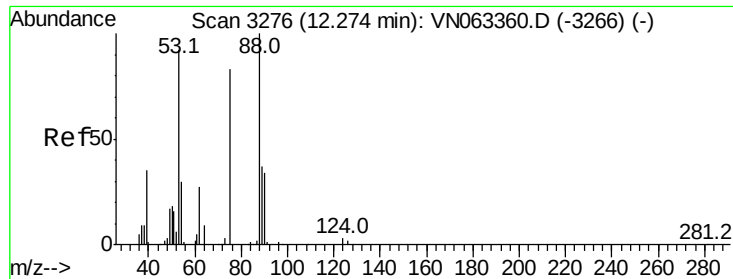
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.464 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

TR-08-091720

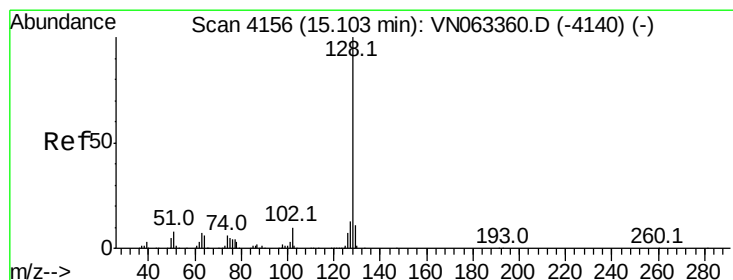
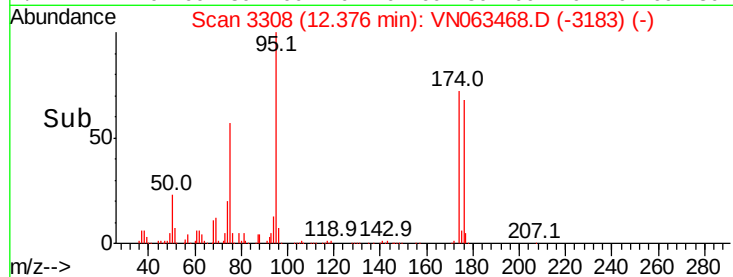
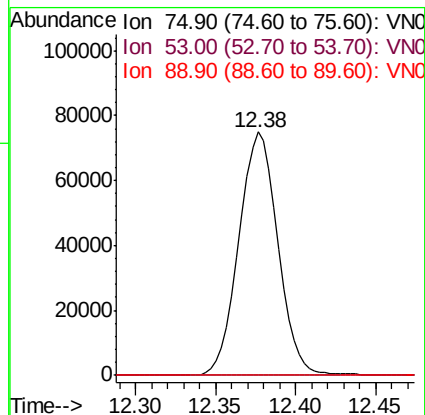
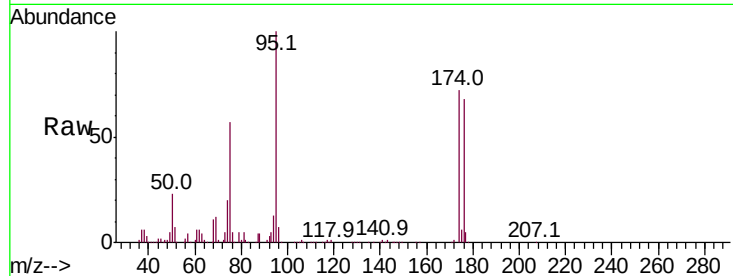
Tot Ion: 75 Resp: 124588

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



#95

Naphthalene

Concen: 0.494 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063468.D

Acq: 18 Sep 2020 19:25

Tgt Ion: 128 Resp: 5926

Ion Ratio Lower Upper

128 100

127 9.6 10.6 15.8#

129 9.6 8.8 13.2

