

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063574.D
 Acq On : 23 Sep 2020 8:52
 Operator : JC/MD
 Sample : L4104-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B29-092120-0-1

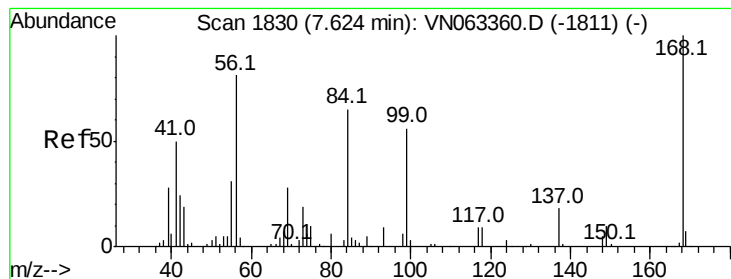
Quant Time: Sep 23 09:27:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	201525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	393670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	401057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	165467	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	175681	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
35) Dibromofluoromethane	7.55	113	127556	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	10.06	98	503846	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.38	95	190184	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	20323	18.434	ug/l	99
18) Methyl Acetate	4.28	43	3546	1.267	ug/l #	85
20) Methylene Chloride	4.51	84	10368	3.712	ug/l	96
25) 2-Butanone	6.79	43	2492	1.470	ug/l #	83
29) Tetrahydrofuran	7.18	42	1446	1.249	ug/l #	77
31) Cyclohexane	7.63	56	5665	1.196	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	19649	4.685	ug/l #	48
38) Carbon Tetrachloride	7.62	117	23038	5.381	ug/l #	19
43) Isopropyl Acetate	8.13	43	79040	10.739	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1552	0.476	ug/l #	43
48) Methyl methacrylate	9.14	41	5049	1.396	ug/l #	15
49) 1,4-Dioxane	9.20	88	29	0.559	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	9833	2.386	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	31071	5.926	ug/l #	66
56) Ethyl methacrylate	10.51	69	1656	0.371	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5451	1.057	ug/l #	42
59) 2-Hexanone	10.74	43	83512	27.975	ug/l #	54
74) N-amyl acetate	12.01	43	2549	0.406	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	108821	26.571	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	108821	72.847	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063574.D

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Instrument :

MSVOA_N

ClientSampleId :

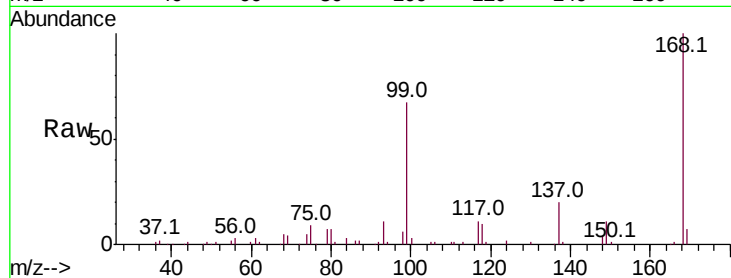
PAV-B29-092120-0-1

Tot Ion:168 Resp: 201525

Ion Ratio Lower Upper

168 100

99 67.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

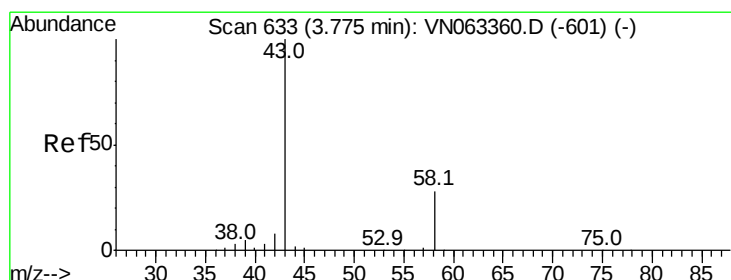
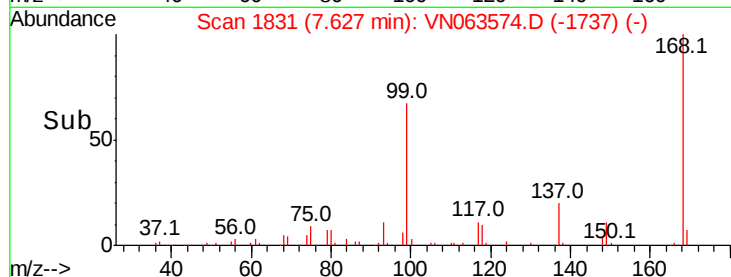
40000

20000

0

Time-->

7.50 7.60 7.70



#16

Acetone

Concen: 18.434 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063574.D

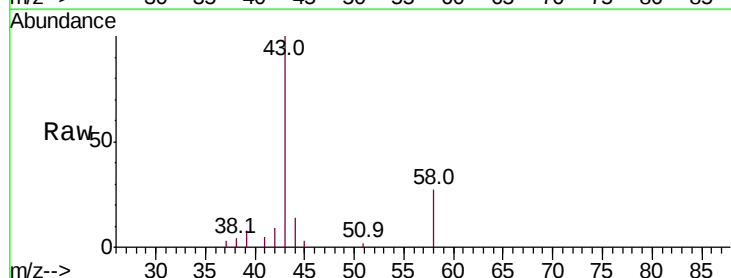
Acq: 23 Sep 2020 8:52

Tgt Ion: 43 Resp: 20323

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

8000

6000

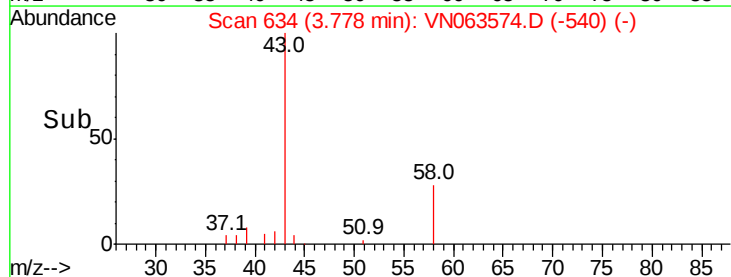
4000

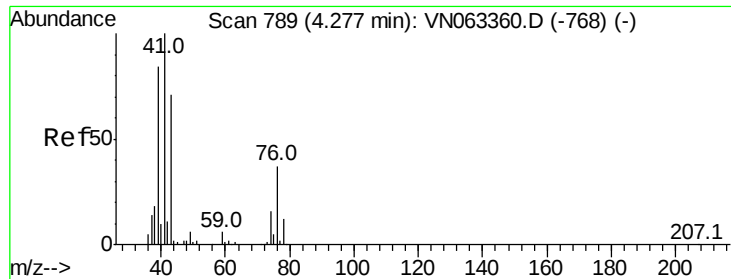
2000

0

Time-->

3.70 3.75 3.80 3.85

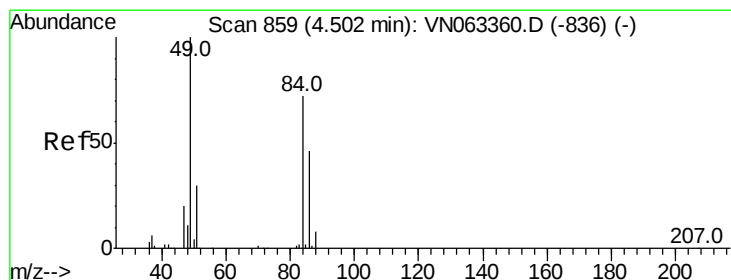
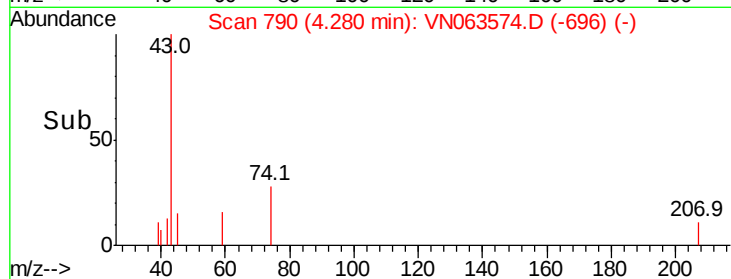
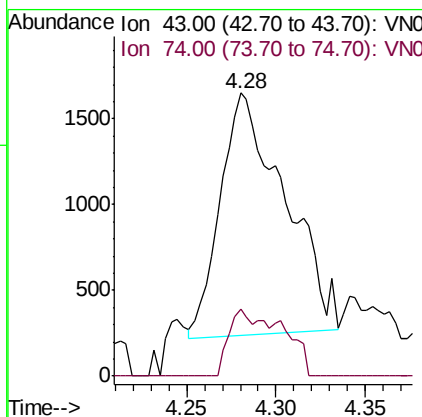
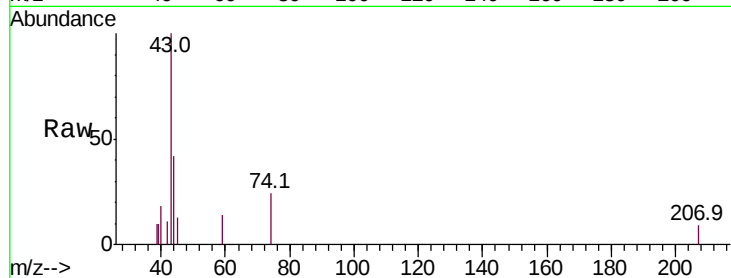




#18
Methvl Acetate
Concen: 1.267 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

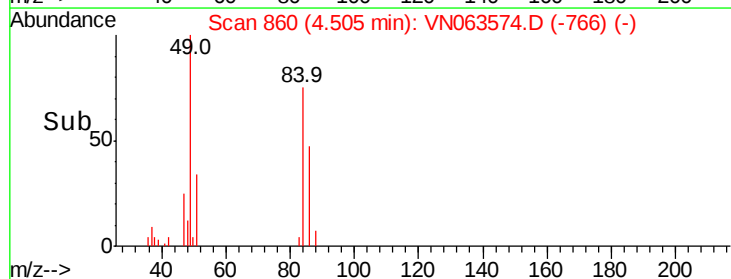
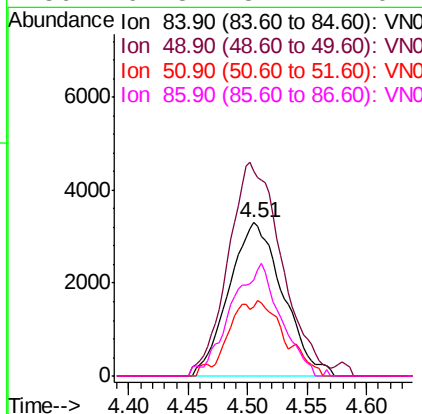
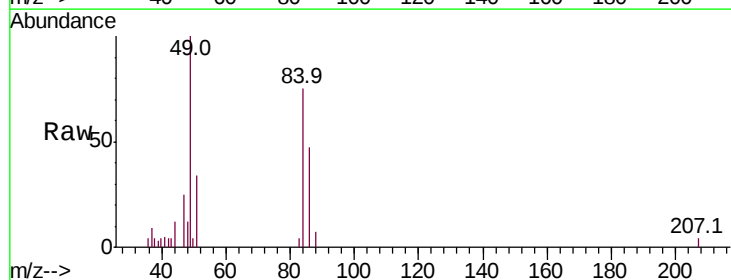
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-0-1

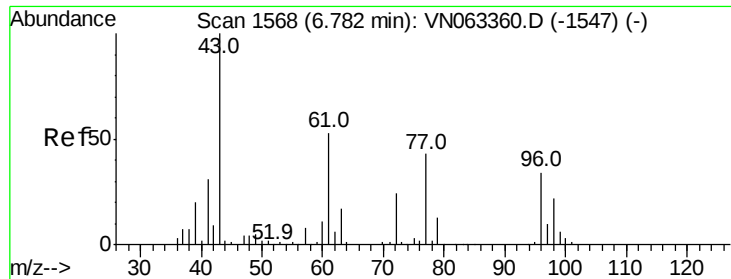
Tot Ion: 43 Resp: 3546
Ion Ratio Lower Upper
43 100
74 14.7 17.4 26.2#



#20
Methylene Chloride
Concen: 3.712 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

Tgt Ion: 84 Resp: 10368
Ion Ratio Lower Upper
84 100
49 133.8 110.7 166.1
51 45.3 32.9 49.3
86 62.8 51.1 76.7

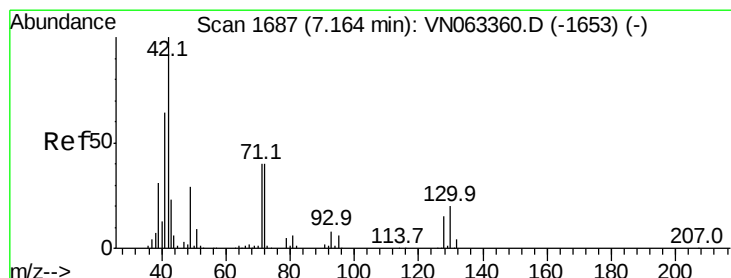
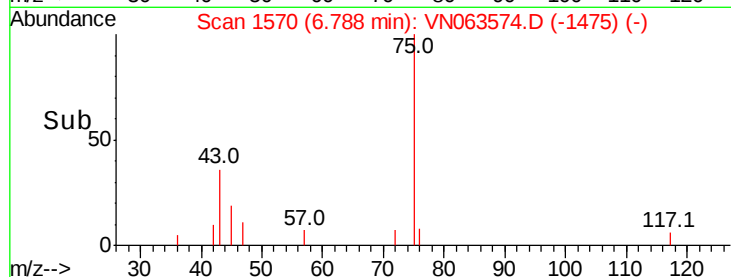
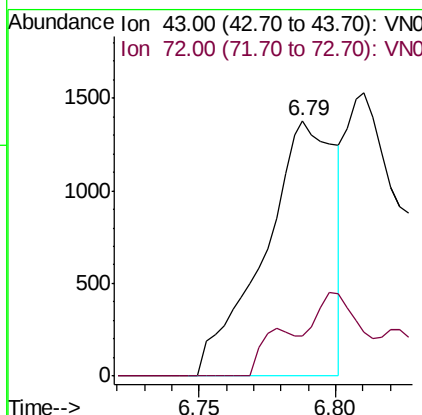
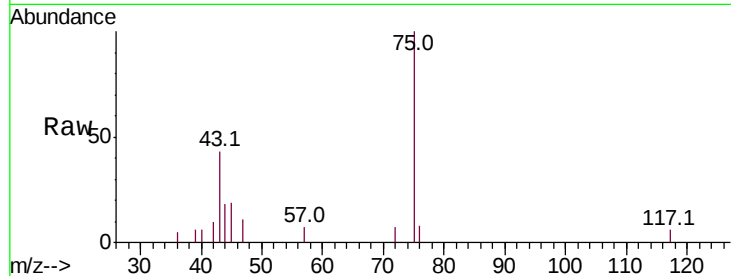




#25
2-Butanone
Concen: 1.470 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

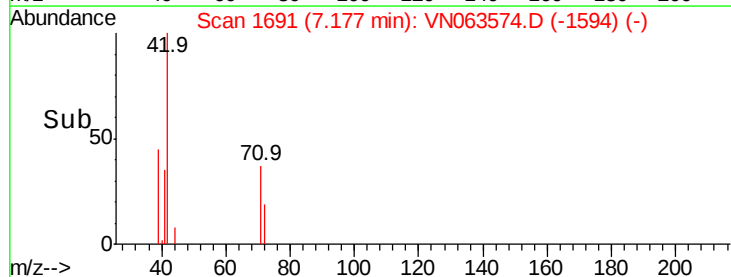
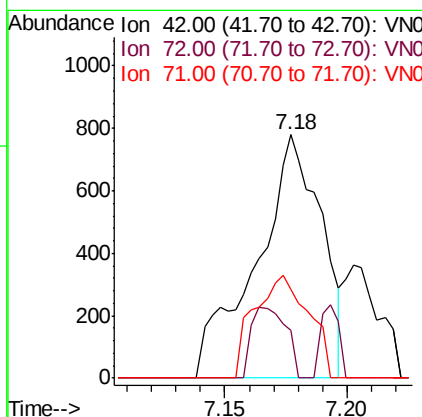
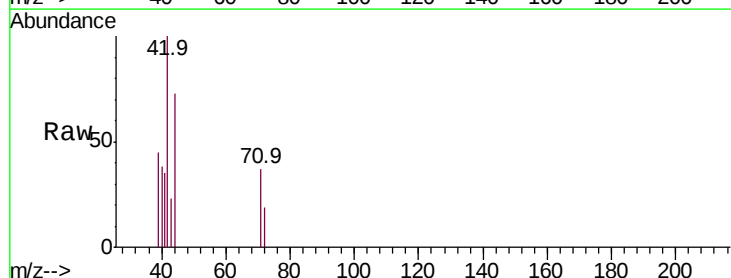
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-0-1

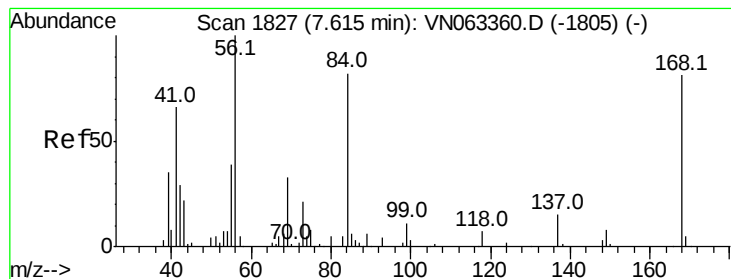
Tot Ion: 43 Resp: 2492
Ion Ratio Lower Upper
43 100
72 15.6 19.2 28.8#



#29
Tetrahydrofuran
Concen: 1.249 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

Tgt Ion: 42 Resp: 1446
Ion Ratio Lower Upper
42 100
72 15.4 32.1 48.1#
71 35.1 31.2 46.8





#31

Cyclohexane

Concen: 1.196 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

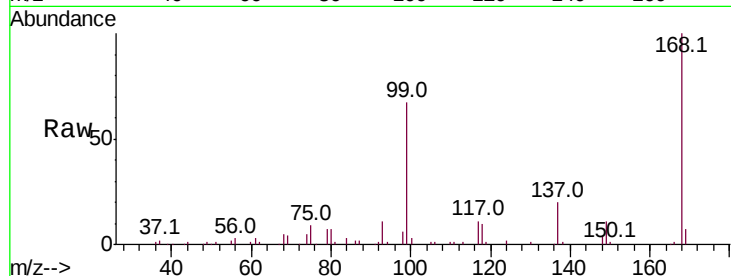
Tot Ion: 56 Resp: 5665

Ion Ratio Lower Upper

56 100

69 124.9 26.1 39.1#

84 103.9 65.4 98.2#

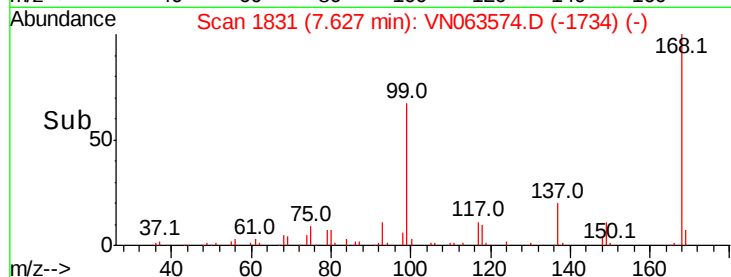


Abundance Ion 56.00 (55.70 to 56.70): VN063360.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063360.D (-1805) (-)

Time-->

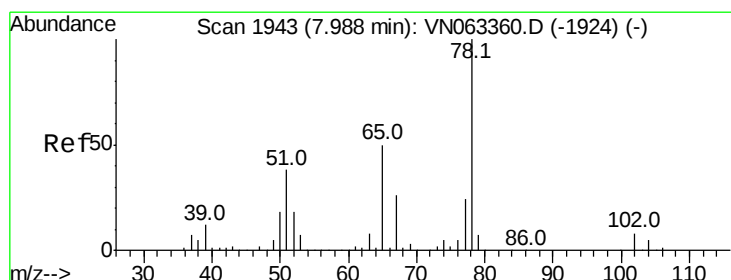


Abundance Ion 56.00 (55.70 to 56.70): VN063574.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN063574.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063574.D (-1734) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.212 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063574.D

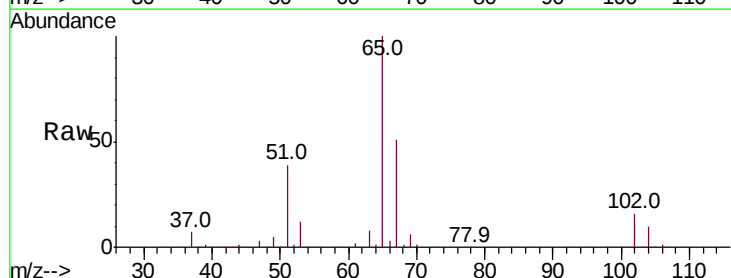
Acq: 23 Sep 2020 8:52

Tgt Ion: 65 Resp: 175681

Ion Ratio Lower Upper

65 100

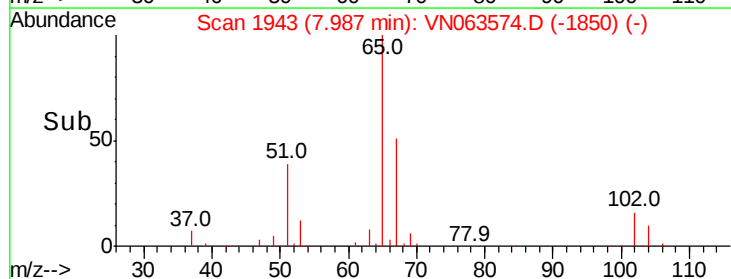
67 50.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)

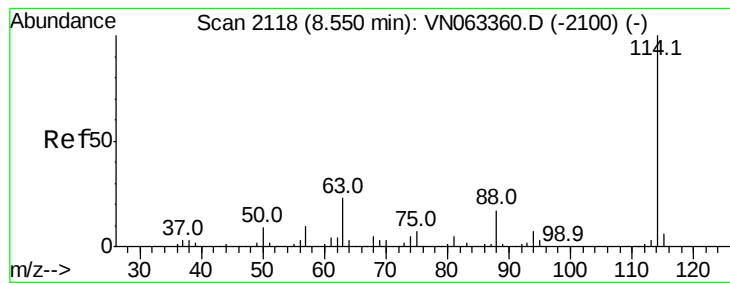
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN063574.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063574.D (-1850) (-)

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

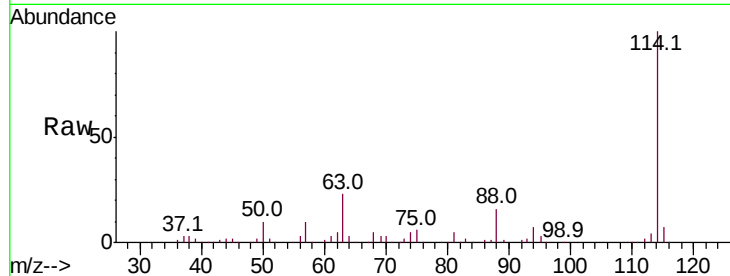
Tot Ion:114 Resp: 393670

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.4

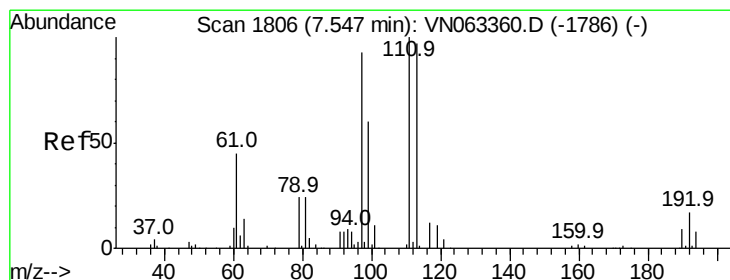
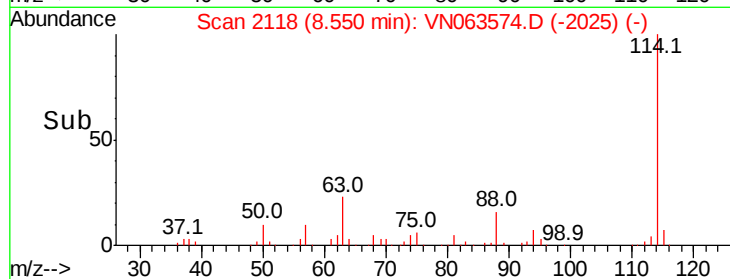
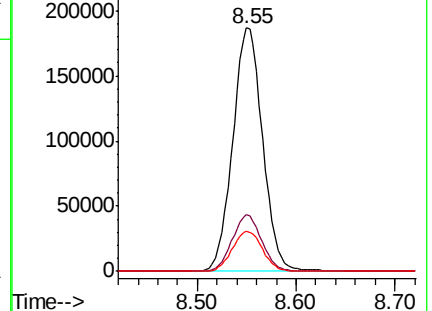
88 16.3 0.0 33.2



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: 46.804 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

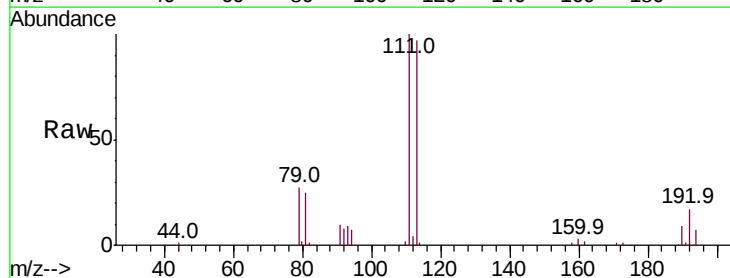
Tgt Ion:113 Resp: 127556

Ion Ratio Lower Upper

113 100

111 103.1 82.9 124.3

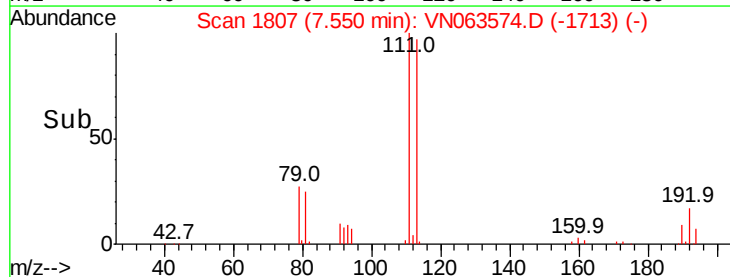
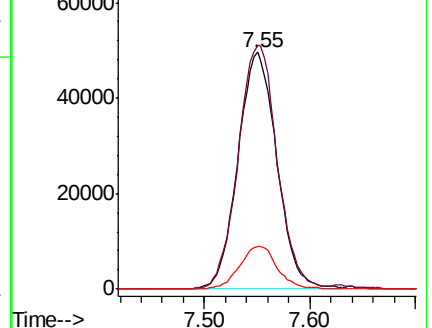
192 17.3 13.9 20.9

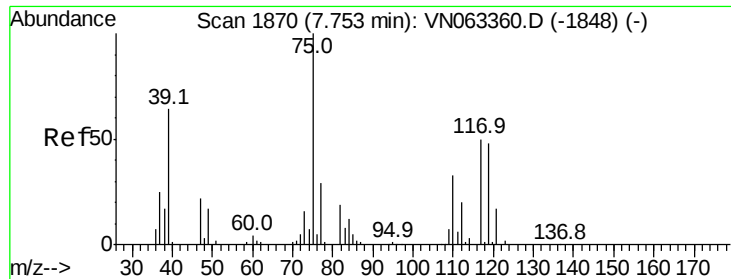


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

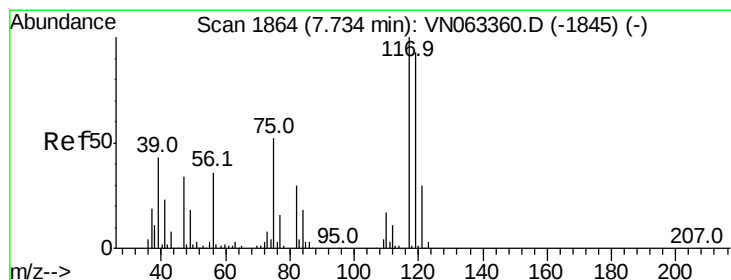
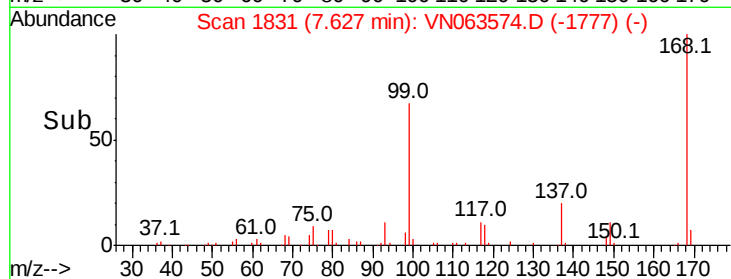
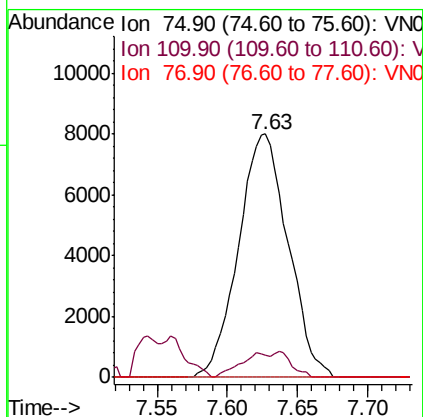
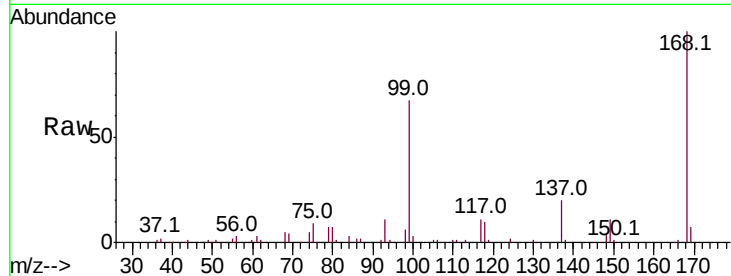




#36
 1,1-Dichloropropene
 Concen: 4.685 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063574.D
 Acq: 23 Sep 2020 8:52

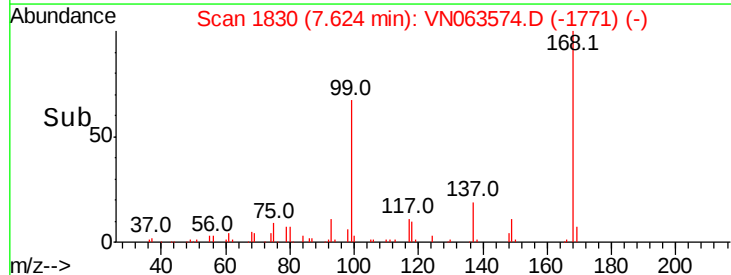
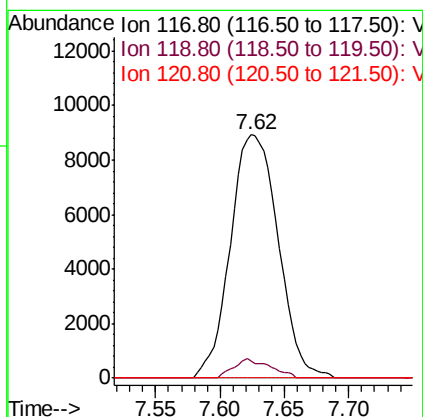
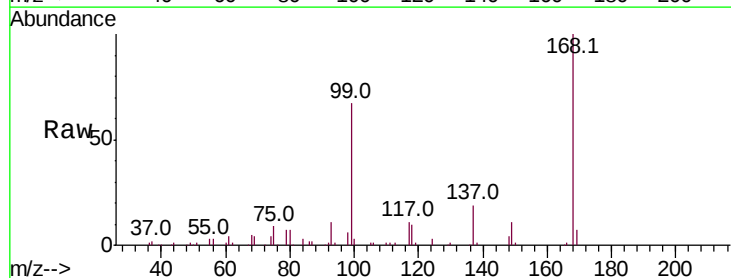
Instrument :
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 PAV-B29-092120-0-1

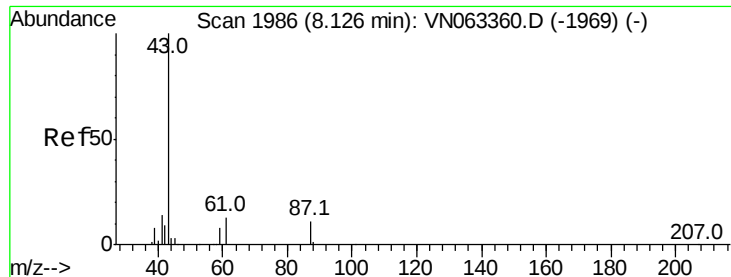
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.1	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.381 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063574.D
 Acq: 23 Sep 2020 8:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	74.5	111.7#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 10.739 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

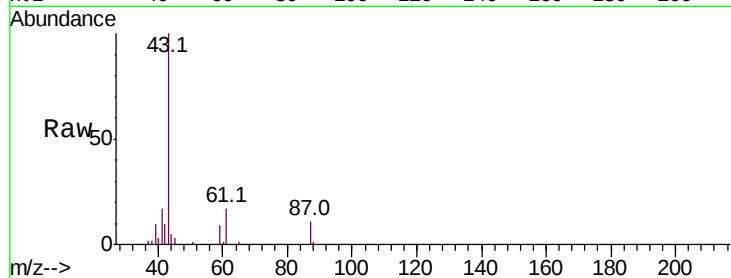
Tot Ion: 43 Resp: 79040

Ion Ratio Lower Upper

43 100

61 17.7 14.2 21.2

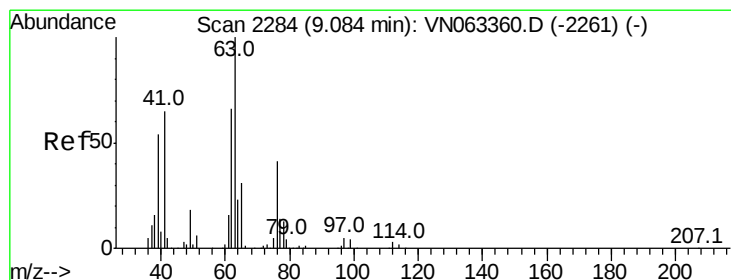
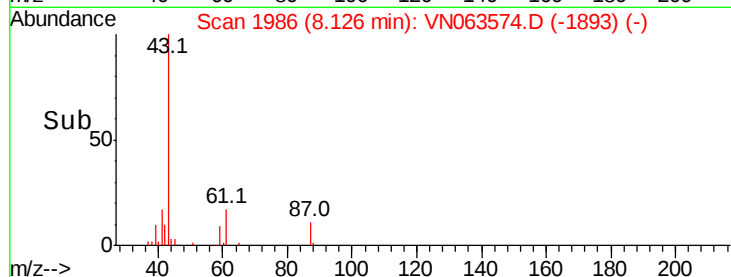
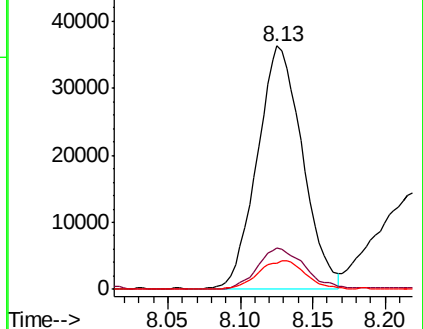
87 12.2 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.476 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063574.D

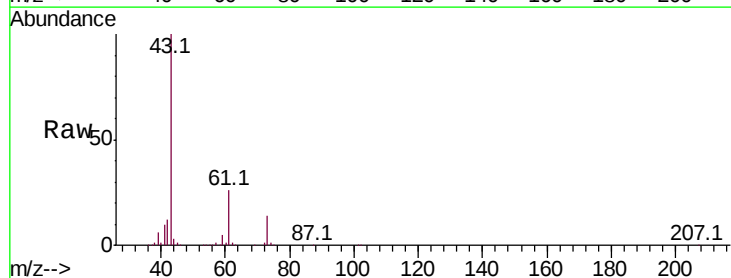
Acq: 23 Sep 2020 8:52

Tgt Ion: 63 Resp: 1552

Ion Ratio Lower Upper

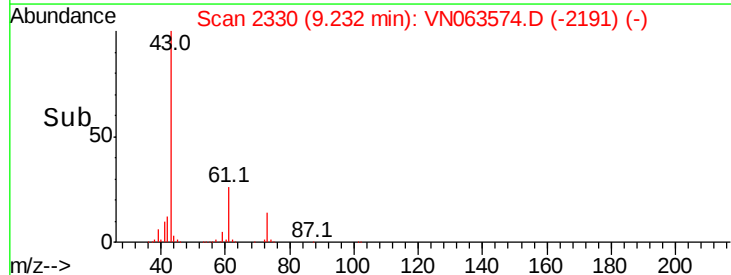
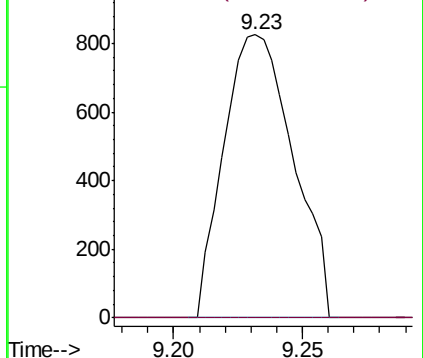
63 100

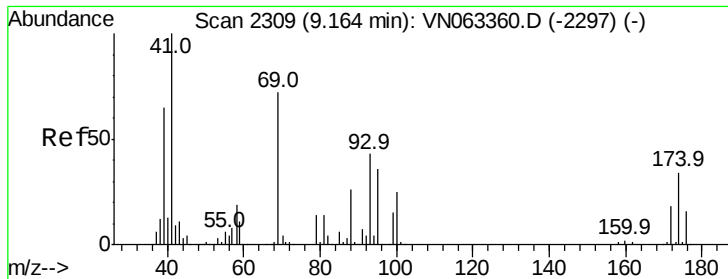
65 0.0 25.0 37.6#



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

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

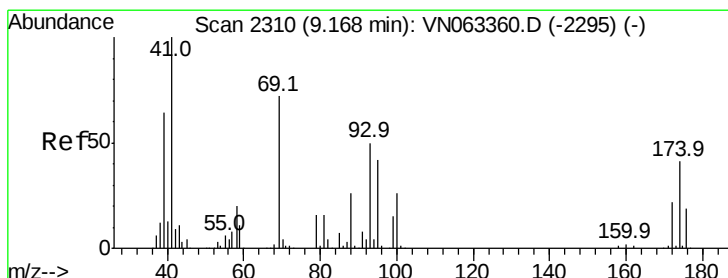
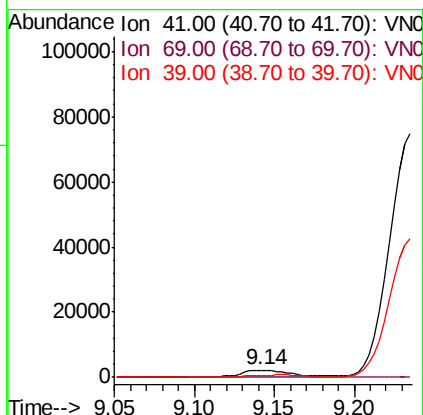
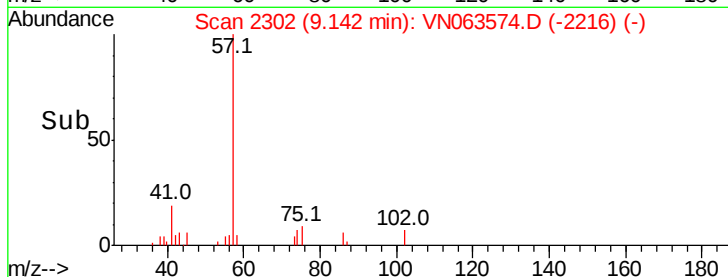
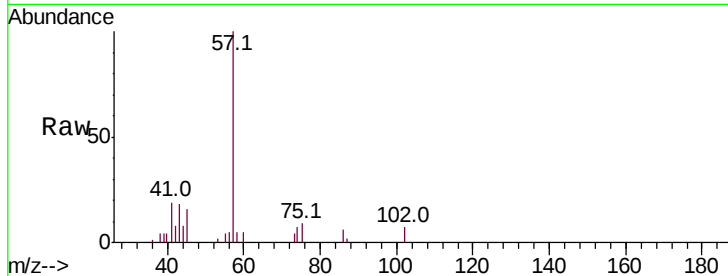




#48
Methyl methacrylate
Concen: 1.396 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

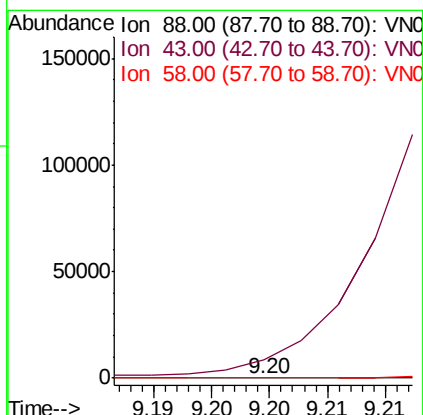
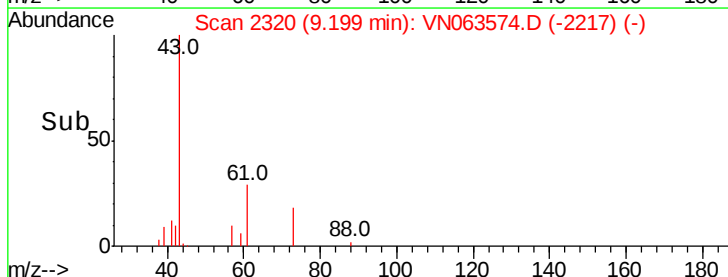
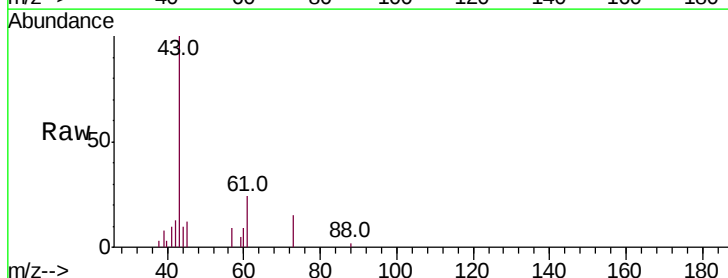
Instrument :
MSVOA_N
ClientSampleId :
PAV-B29-092120-0-1

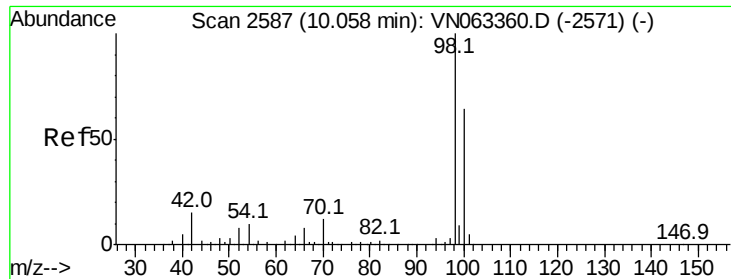
Tot Ion: 41 Resp: 5049
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 0.559 ug/l
RT: 9.20 min Scan# 2320
Delta R.T. 0.03 min
Lab File: VN063574.D
Acq: 23 Sep 2020 8:52

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 0.0 60.0 90.0#





#50

Toluene-d8

Concen: 49.167 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

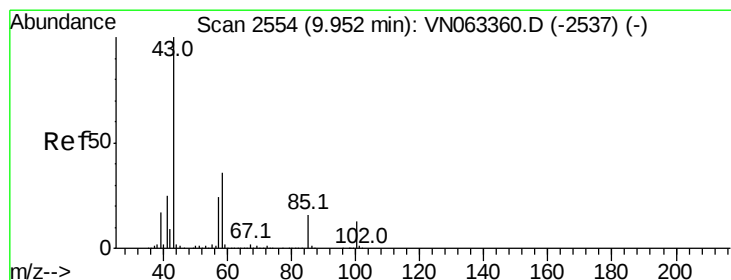
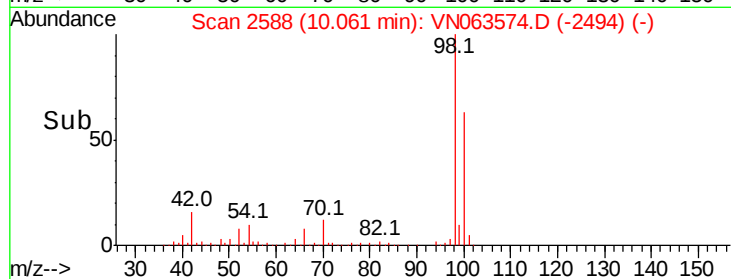
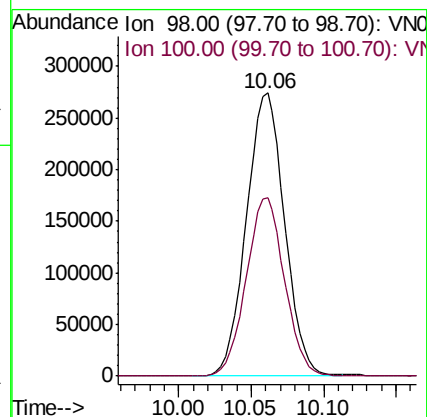
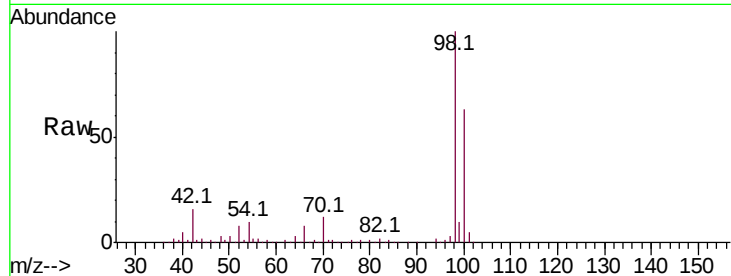
PAV-B29-092120-0-1

Tot Ion: 98 Resp: 503846

Ion Ratio Lower Upper

98 100

100 63.0 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.386 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063574.D

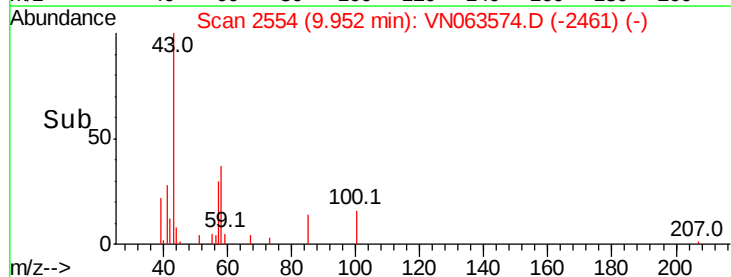
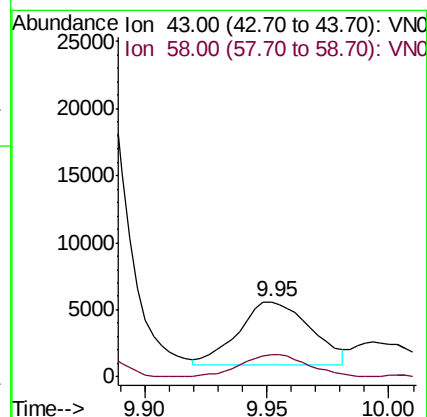
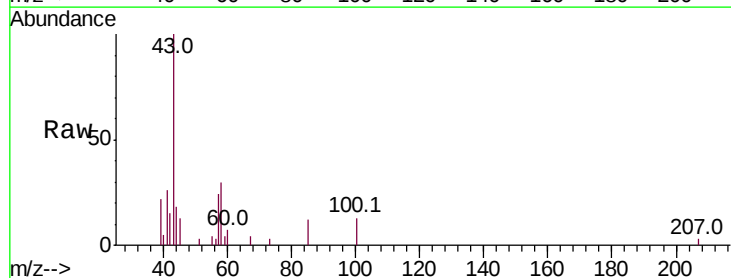
Acq: 23 Sep 2020 8:52

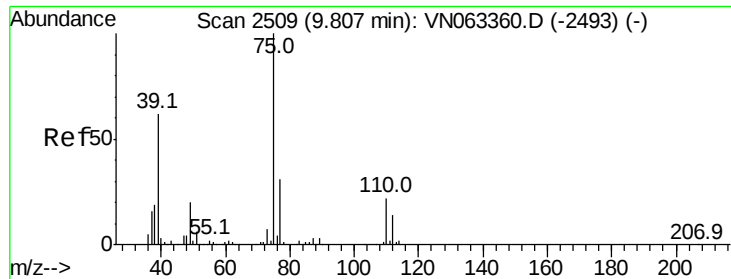
Tgt Ion: 43 Resp: 9833

Ion Ratio Lower Upper

43 100

58 32.5 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 5.926 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

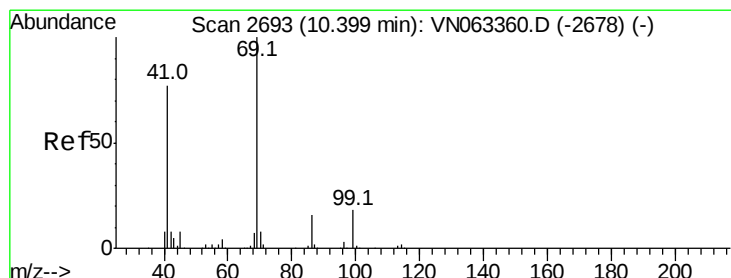
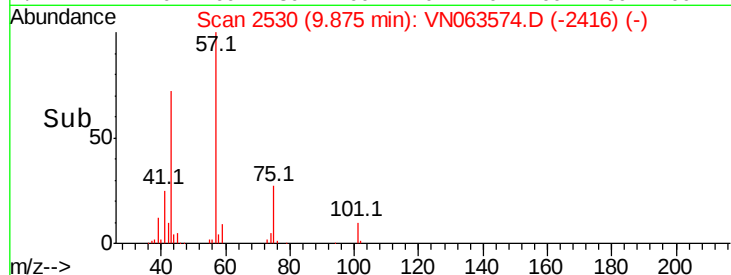
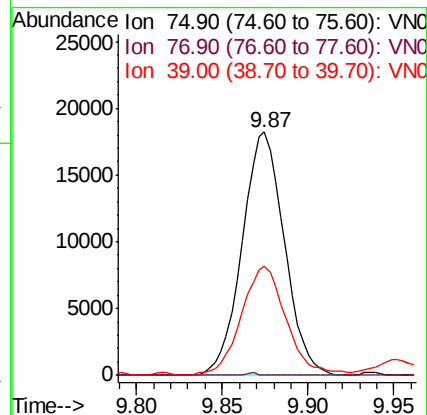
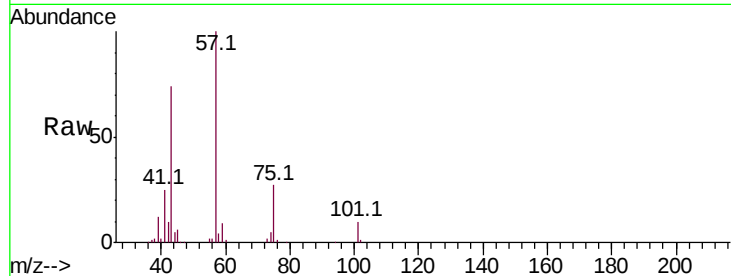
Tot Ion: 75 Resp: 31071

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 45.0 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.371 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

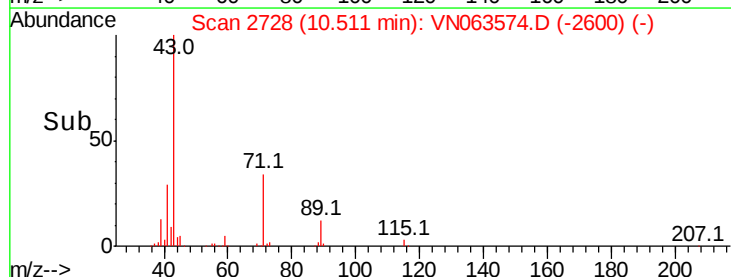
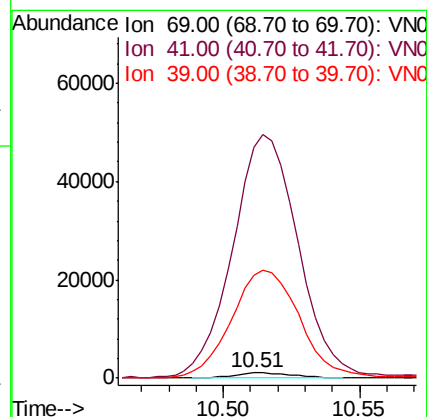
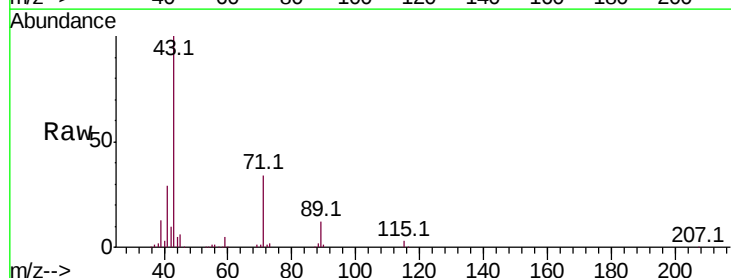
Tgt Ion: 69 Resp: 1656

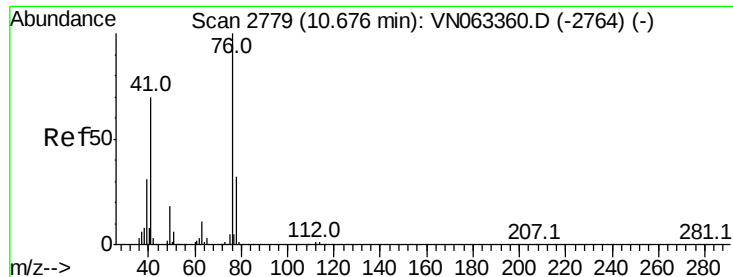
Ion Ratio Lower Upper

69 100

41 5001.0 61.0 91.6#

39 2307.1 39.2 58.8#

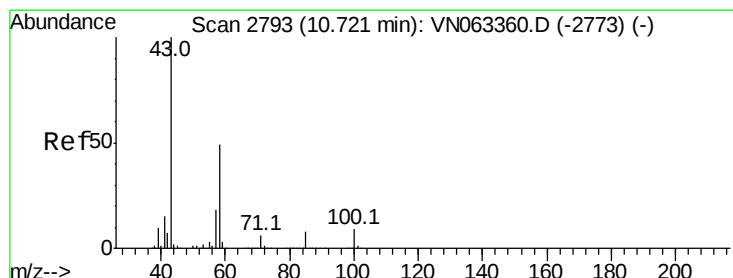
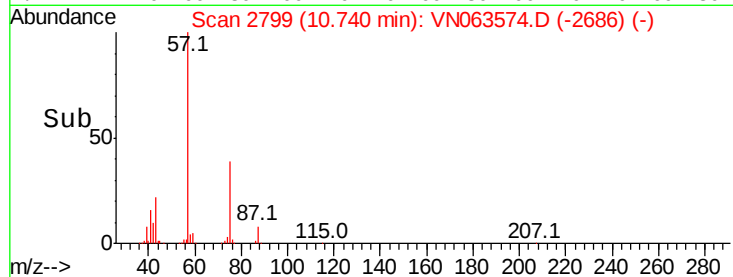
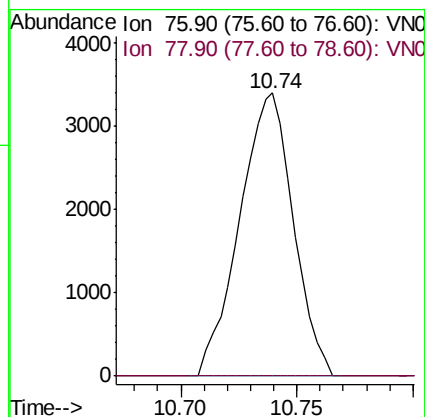
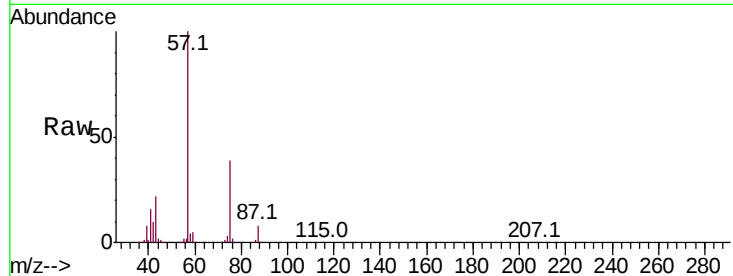




#57
 1,3-Dichloropropane
 Concen: 1.057 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN063574.D
 Acq: 23 Sep 2020 8:52

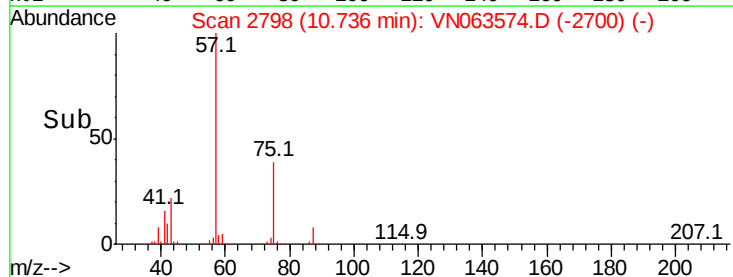
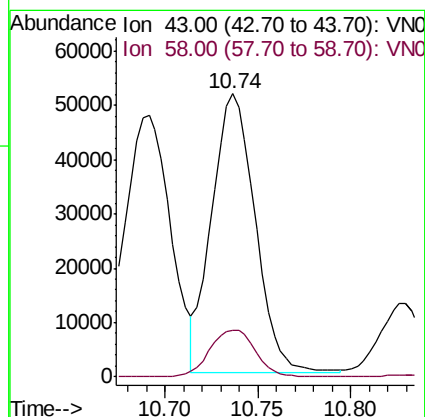
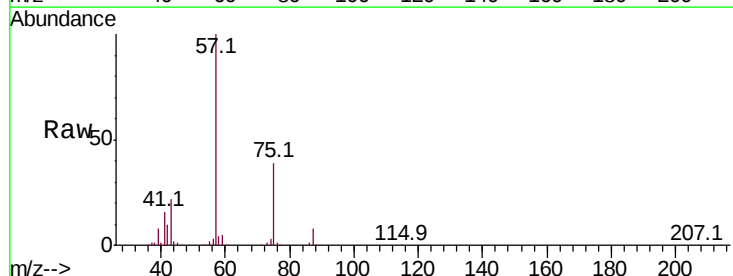
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B29-092120-0-1

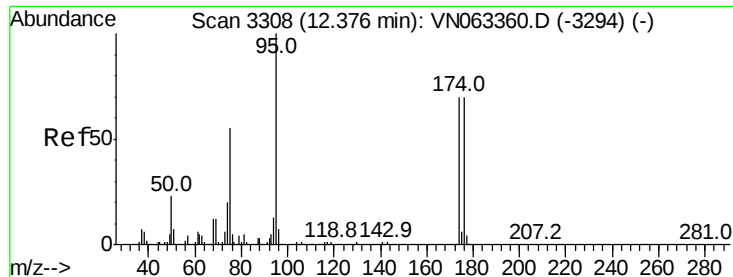
Tot Ion: 76 Resp: 5451
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 27.975 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063574.D
 Acq: 23 Sep 2020 8:52

Tgt Ion: 43 Resp: 83512
 Ion Ratio Lower Upper
 43 100
 58 17.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 50.627 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

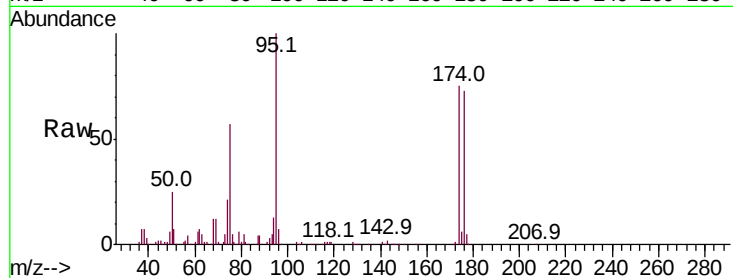
Tot Ion: 95 Resp: 190184

Ion Ratio Lower Upper

95 100

174 74.8 0.0 140.8

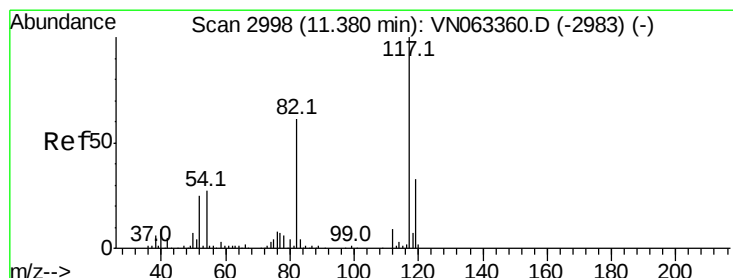
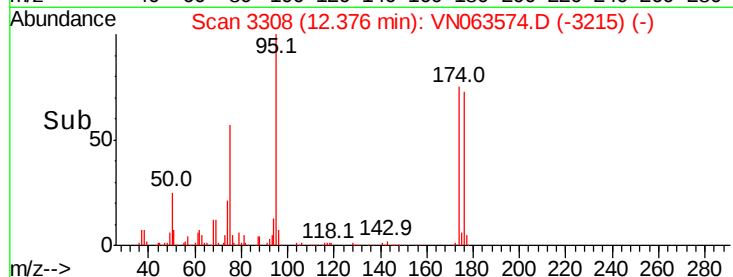
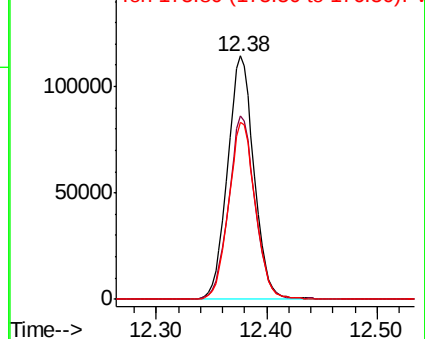
176 73.3 0.0 137.6



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: VN063574.D

Acq: 23 Sep 2020 8:52

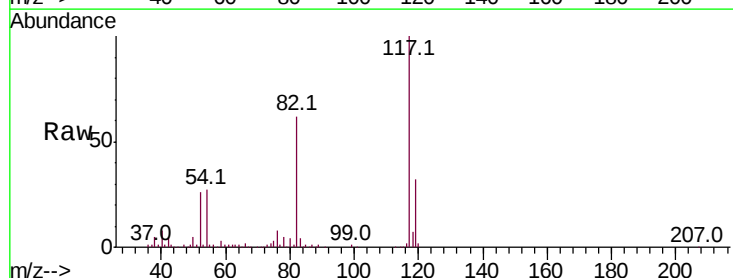
Tgt Ion: 117 Resp: 401057

Ion Ratio Lower Upper

117 100

82 62.1 49.2 73.8

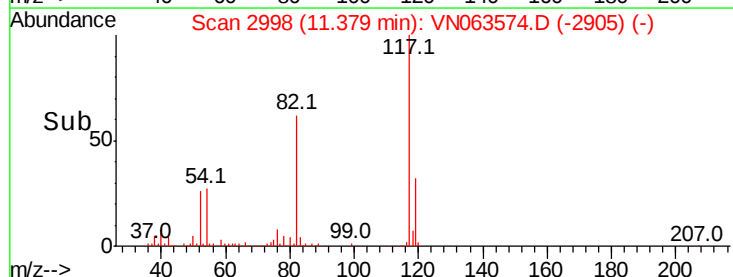
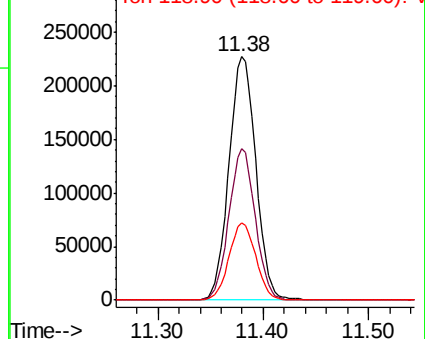
119 31.7 26.2 39.4

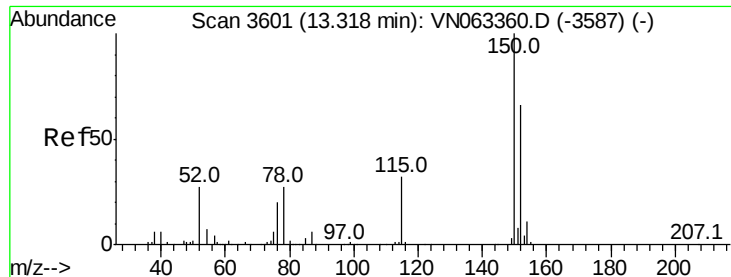


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

PAV-B29-092120-0-1

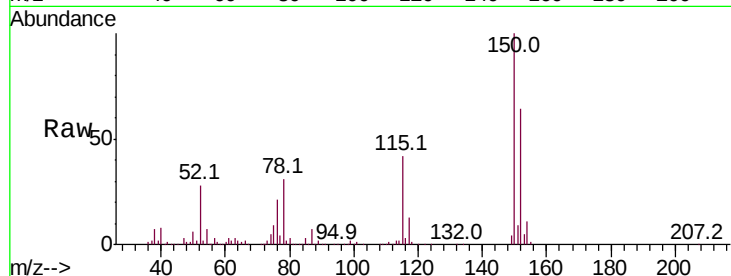
Tot Ion:152 Resp: 165467

Ion Ratio Lower Upper

152 100

115 65.3 32.2 96.6

150 157.3 0.0 343.4

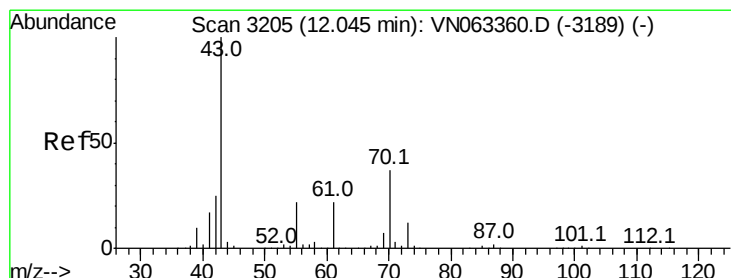
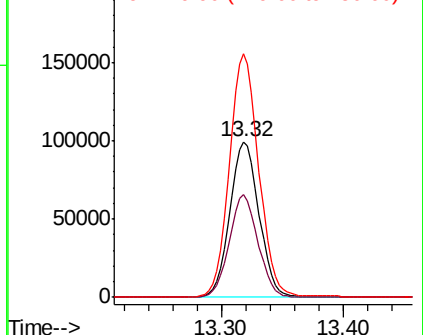
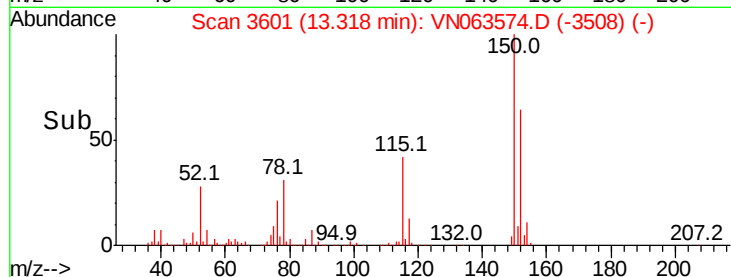


Abundance

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



#74

N-ethyl acetate

Concen: 0.406 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Tgt Ion: 43 Resp: 2549

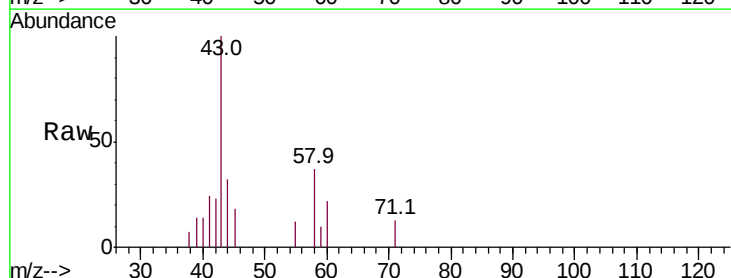
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 8.6 17.7 26.5#

61 0.0 17.4 26.2#



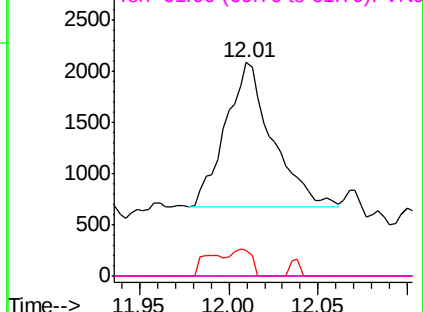
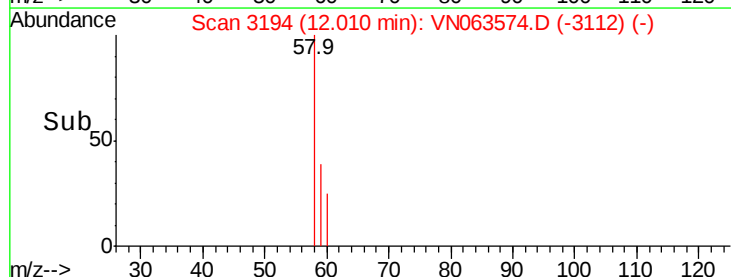
Abundance

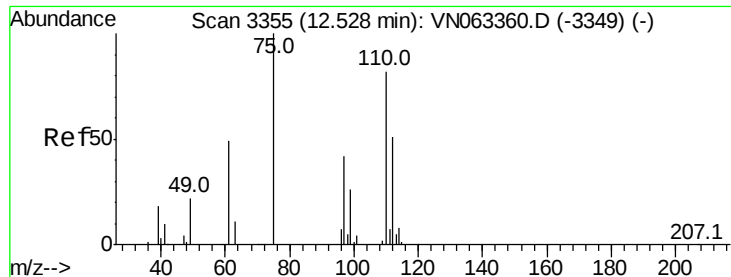
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.571 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

Instrument :

MSVOA_N

ClientSampleId :

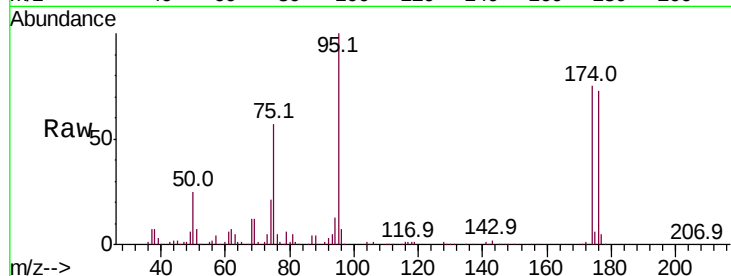
PAV-B29-092120-0-1

Tot Ion: 75 Resp: 108821

Ion Ratio Lower Upper

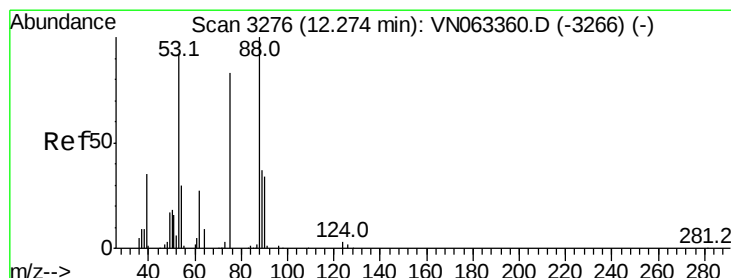
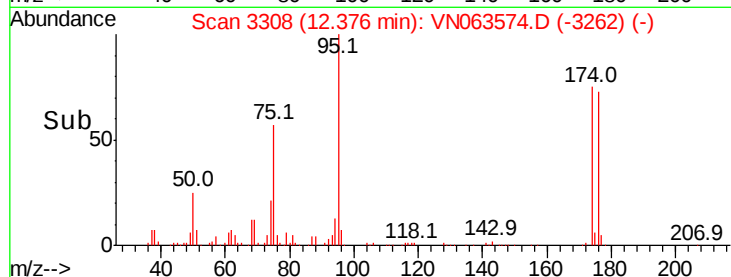
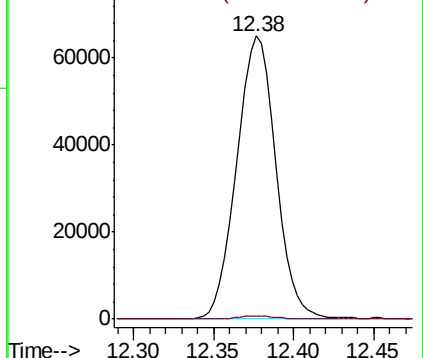
75 100

77 1.1 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: 72.847 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063574.D

Acq: 23 Sep 2020 8:52

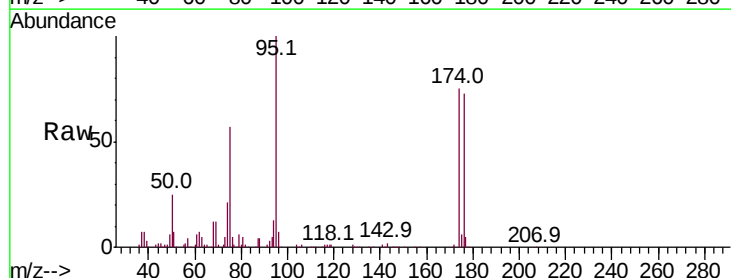
Tgt Ion: 75 Resp: 108821

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

