

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063930.D
 Acq On : 7 Oct 2020 7:06
 Operator : JC/MD
 Sample : L4260-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B23-100220-18-19

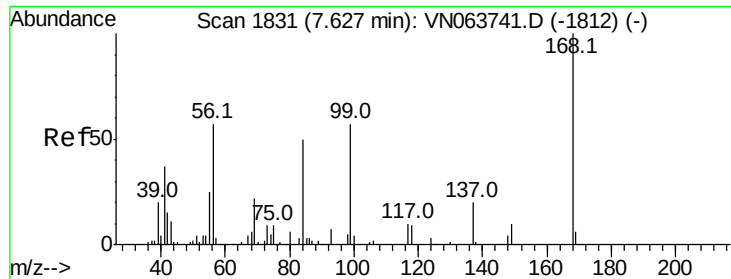
Quant Time: Oct 07 07:26:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	226746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	427844	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	448792	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	174701	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	202417	54.04	ug/l	0.00
Spiked Amount			Recovery	=	108.08%	
35) Dibromofluoromethane	7.55	113	145913	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	10.06	98	553751	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	213510	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.41	56	60	0.236	ug/l #	14
16) Acetone	3.78	43	17031	14.769	ug/l	92
17) Carbon Disulfide	4.01	76	6049	1.667	ug/l #	94
18) Methyl Acetate	4.29	43	3185	1.064	ug/l #	75
20) Methylene Chloride	4.51	84	9735	3.777	ug/l	88
25) 2-Butanone	6.80	43	1998	1.222	ug/l #	90
27) cis-1,2-Dichloroethene	6.78	96	6738	2.291	ug/l	94
29) Tetrahydrofuran	7.17	42	968	0.883	ug/l #	48
31) Cyclohexane	7.63	56	6423	1.477	ug/l #	37
36) 1,1-Dichloropropene	7.62	75	20645	4.763	ug/l #	51
38) Carbon Tetrachloride	7.63	117	25213	5.187	ug/l #	14
43) Isopropyl Acetate	8.13	43	85447	12.029	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1740	0.520	ug/l #	44
48) Methyl methacrylate	9.14	41	6133	1.748	ug/l #	12
49) 1,4-Dioxane	9.18	88	30	0.601	ug/l #	20
51) 4-Methyl-2-Pentanone	9.96	43	5888	1.413	ug/l #	75
54) cis-1,3-Dichloropropene	9.87	75	30476	5.719	ug/l #	70
56) Ethyl methacrylate	10.51	69	2500	0.574	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5487	1.056	ug/l #	43
59) 2-Hexanone	10.74	43	96359	31.118	ug/l #	54
74) N-amyl acetate	12.01	43	2499	2.619	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	117396	30.484	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117396	87.798	ug/l #	6
95) Naphthalene	15.12	128	113	1.936	ug/l #	69

(#) = 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: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

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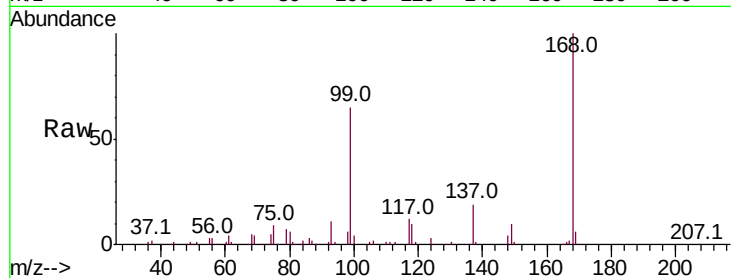
PAV-B23-100220-18-19

Tot Ion:168 Resp: 226746

Ion Ratio Lower Upper

168 100

99 64.8 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

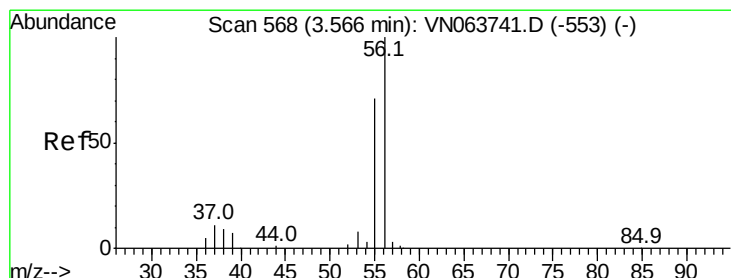
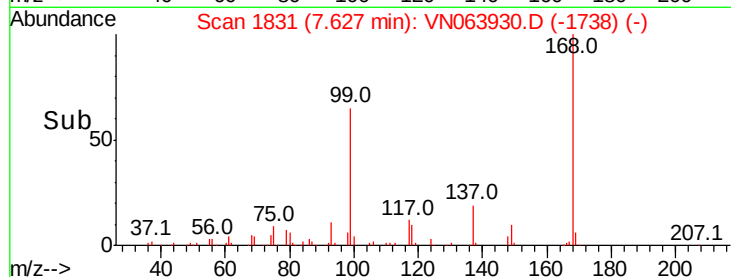
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 0.236 ug/l

RT: 3.41 min Scan# 519

Delta R.T. -0.16 min

Lab File: VN063930.D

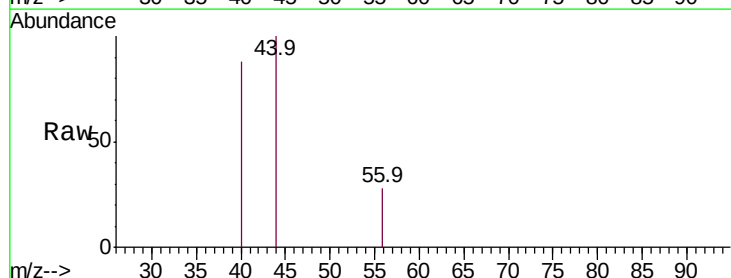
Acq: 7 Oct 2020 7:06

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.41

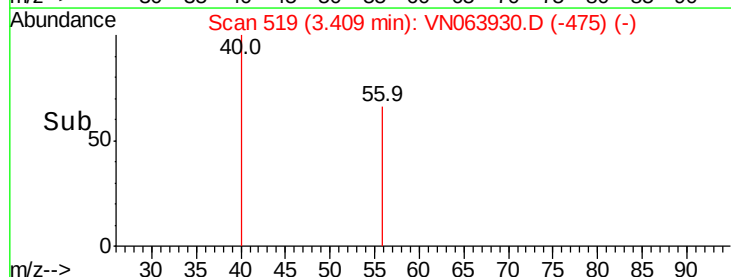
150

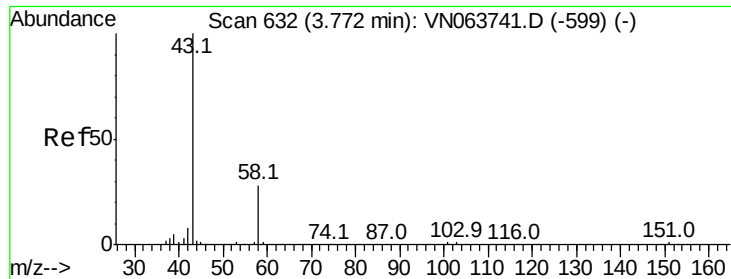
100

50

0

Time--> 3.40 3.41 3.42





#16

Acetone

Concen: 14.769 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

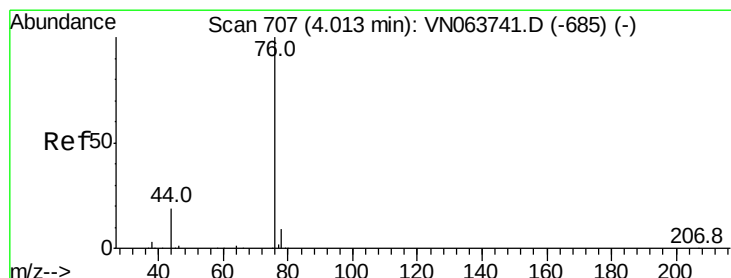
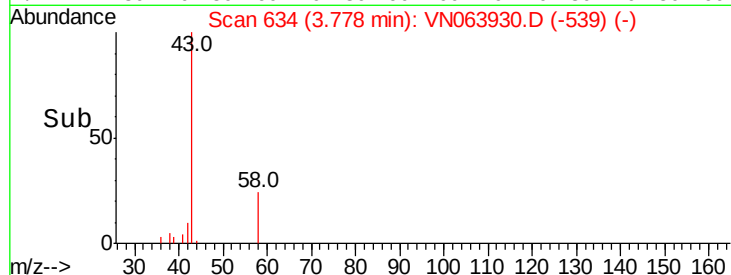
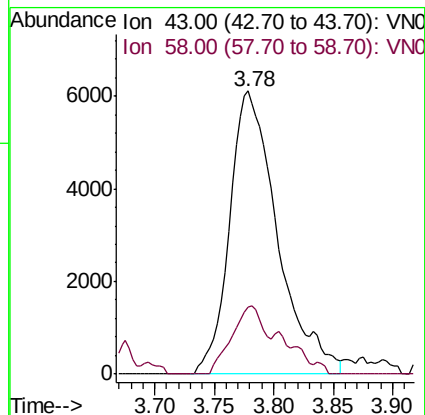
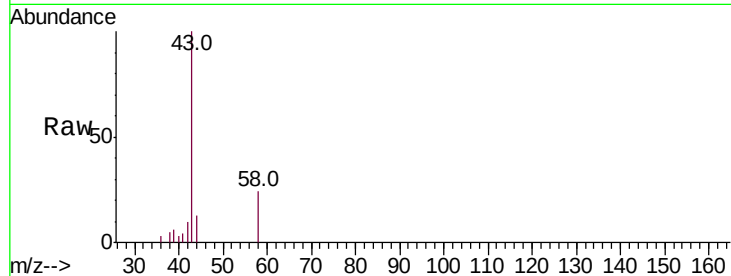
PAV-B23-100220-18-19

Tot Ion: 43 Resp: 17031

Ion Ratio Lower Upper

43 100

58 23.6 22.3 33.5



#17

Carbon Disulfide

Concen: 1.667 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063930.D

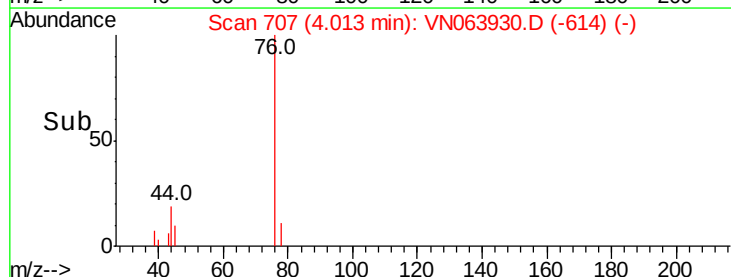
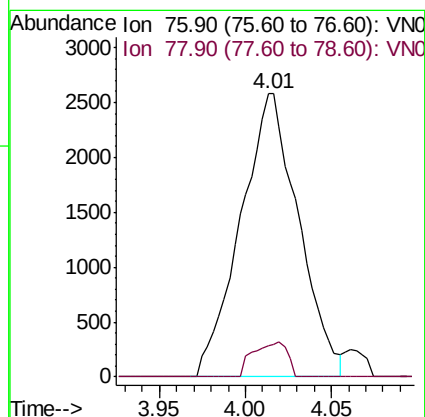
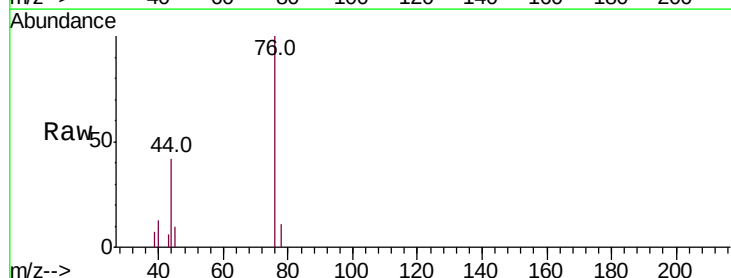
Acq: 7 Oct 2020 7:06

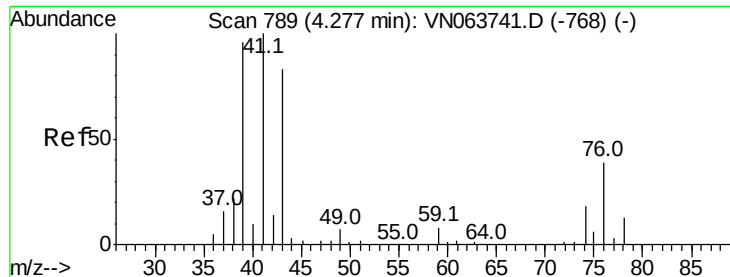
Tgt Ion: 76 Resp: 6049

Ion Ratio Lower Upper

76 100

78 10.9 7.0 10.4#

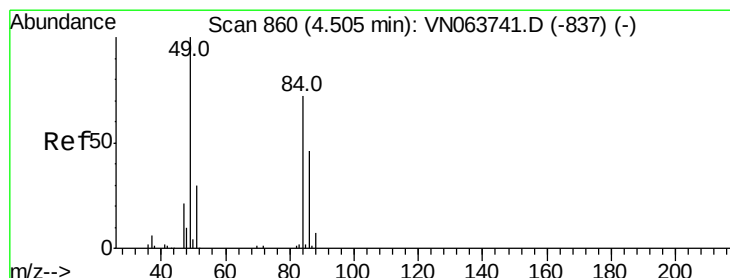
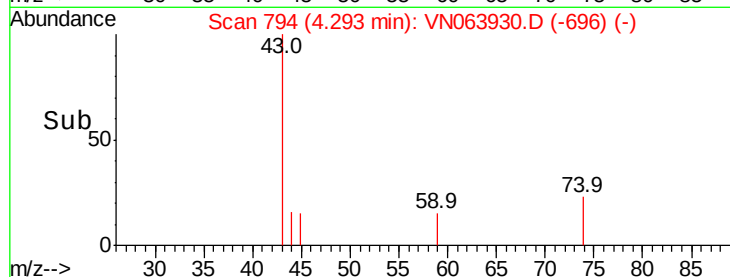
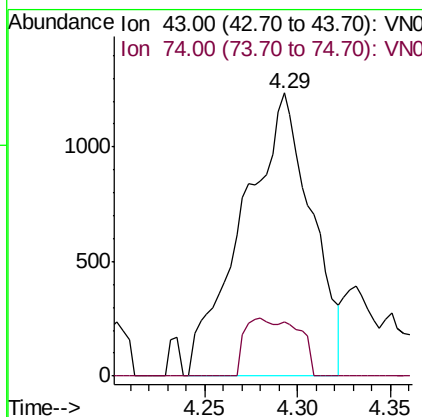
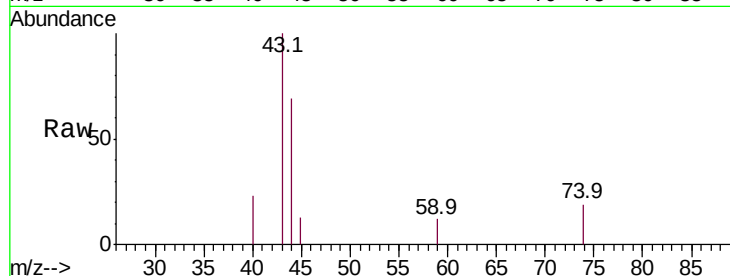




#18
Methyl Acetate
Concen: 1.064 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

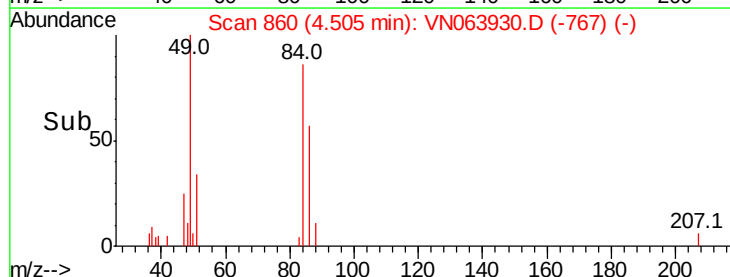
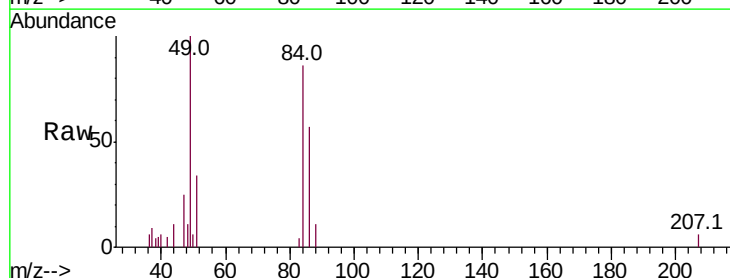
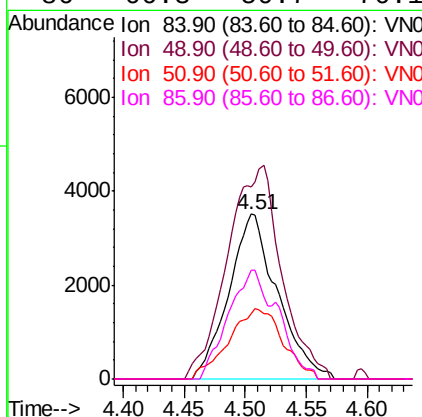
Instrument :
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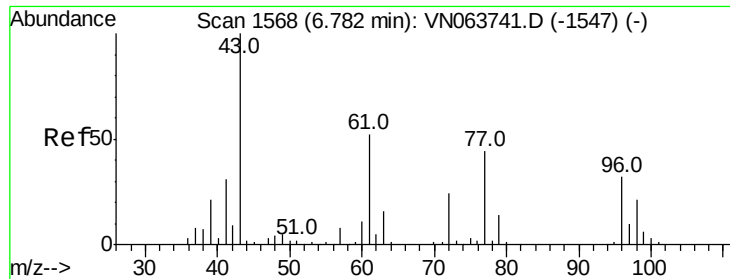
Tot Ion: 43 Resp: 3185
Ion Ratio Lower Upper
43 100
74 9.8 17.4 26.2#



#20
Methylene Chloride
Concen: 3.777 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 84 Resp: 9735
Ion Ratio Lower Upper
84 100
49 116.5 110.4 165.6
51 39.5 33.3 49.9
86 66.3 50.7 76.1

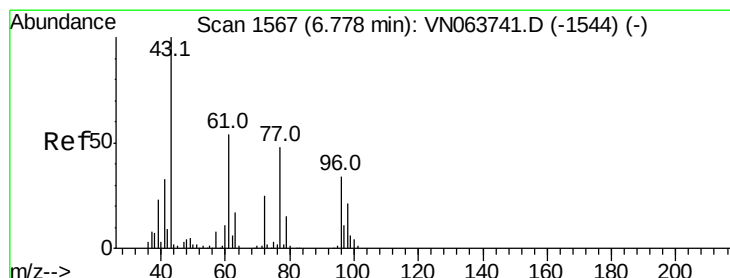
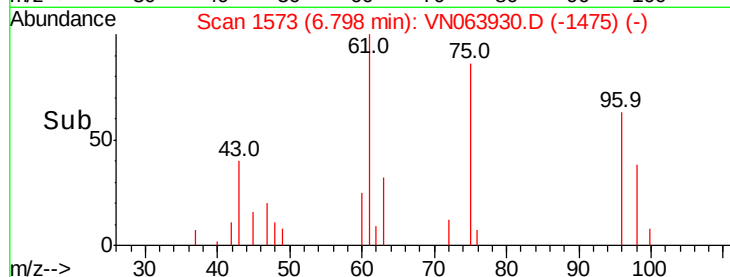
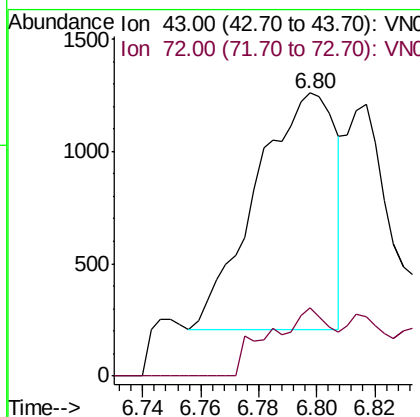
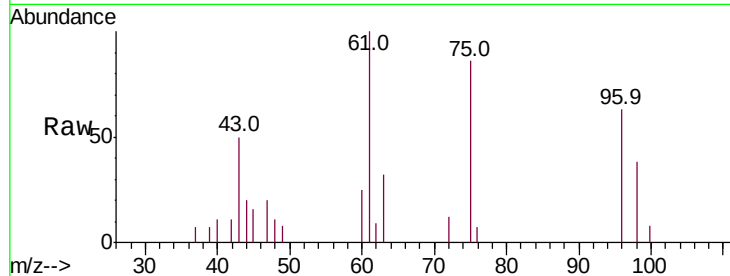




#25
2-Butanone
Concen: 1.222 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

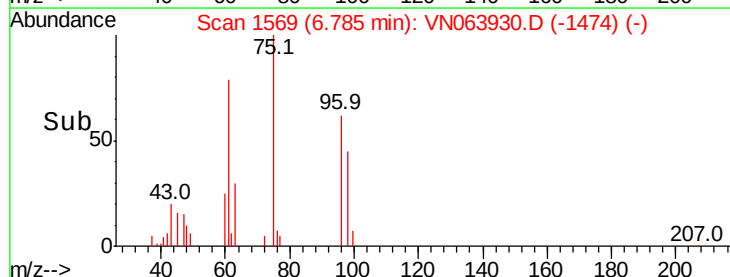
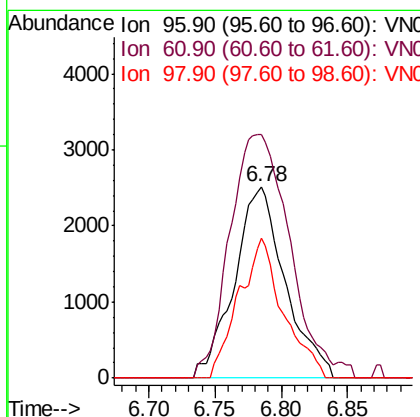
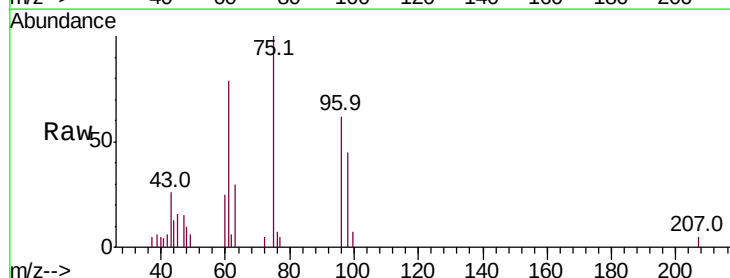
Instrument :
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ClientSampleId :
PAV-B23-100220-18-19

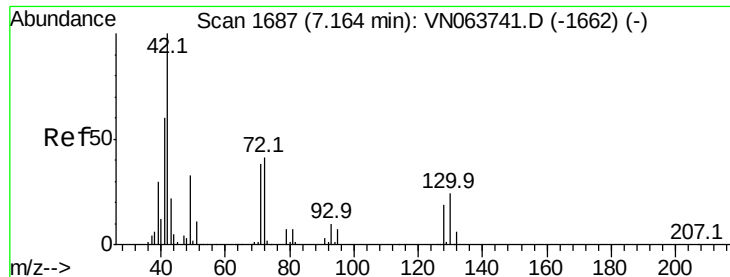
Tot Ion: 43 Resp: 1998
Ion Ratio Lower Upper
43 100
72 29.0 19.3 28.9#



#27
cis-1,2-Dichloroethene
Concen: 2.291 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 96 Resp: 6738
Ion Ratio Lower Upper
96 100
61 150.2 0.0 321.2
98 63.4 0.0 124.4

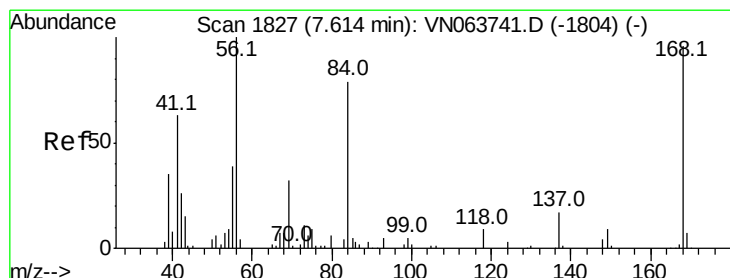
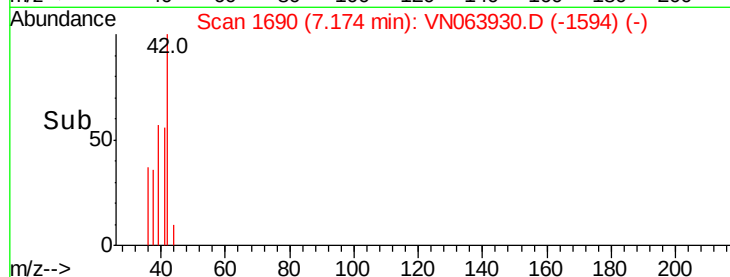
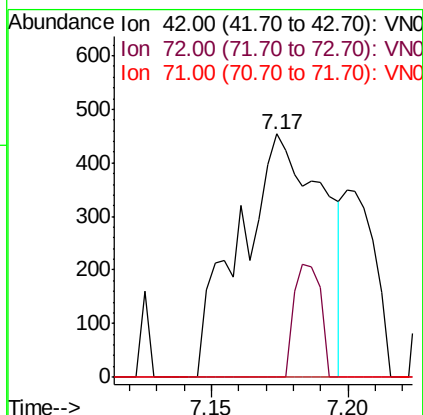
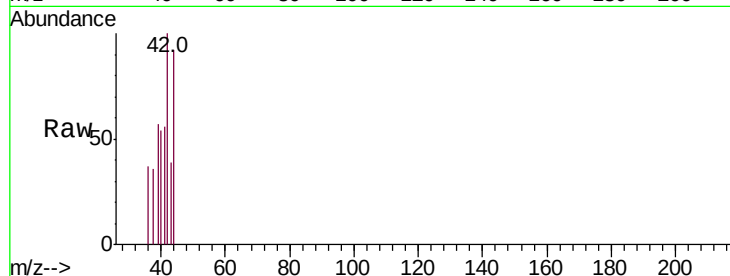




#29
Tetrahydrofuran
Concen: 0.883 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

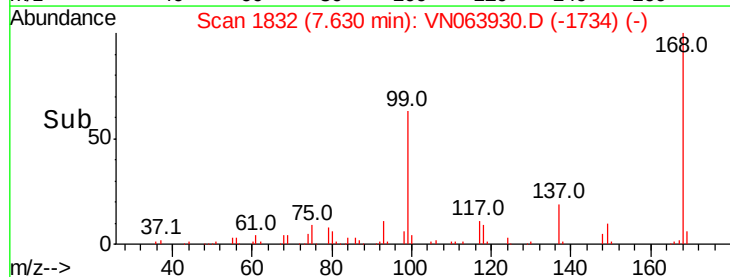
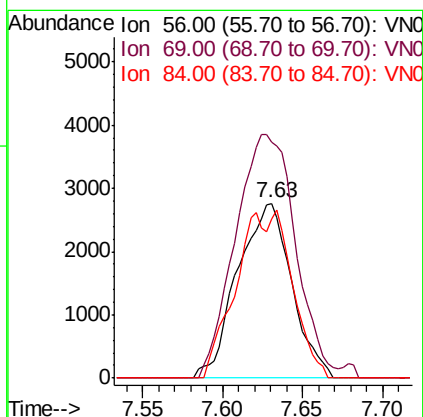
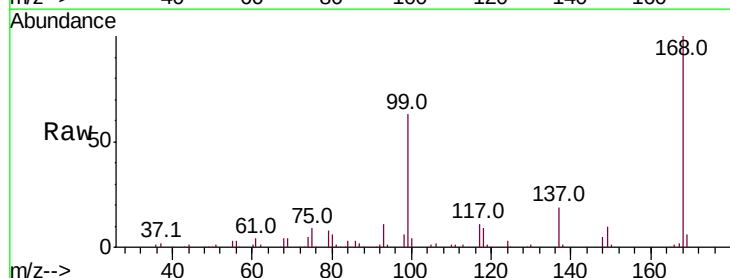
Instrument :
MSVOA_N
ClientSampleId :
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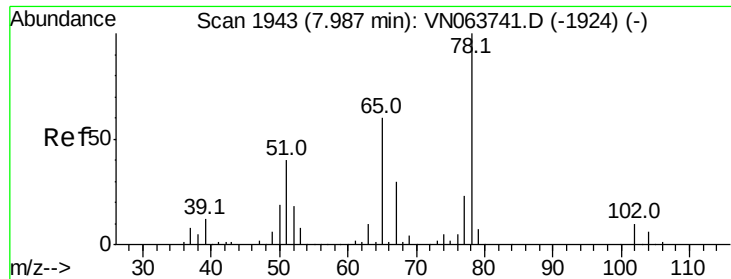
Tot Ion: 42 Resp: 968
Ion Ratio Lower Upper
42 100
72 14.9 32.8 49.2#
71 0.0 30.6 45.8#



#31
Cyclohexane
Concen: 1.477 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 56 Resp: 6423
Ion Ratio Lower Upper
56 100
69 134.8 25.4 38.2#
84 91.2 63.3 94.9

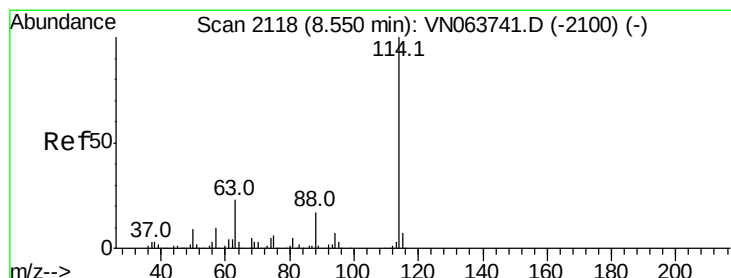
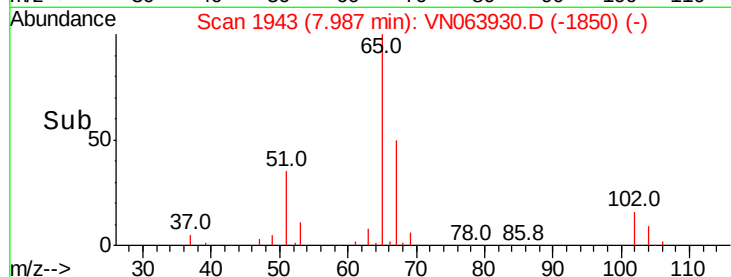
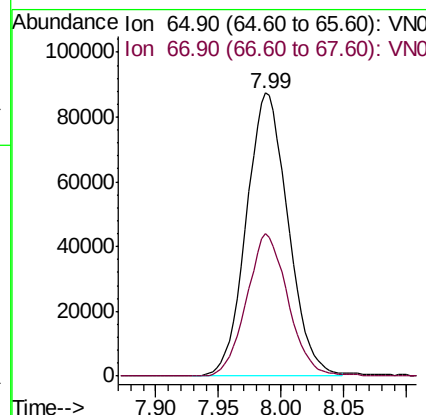
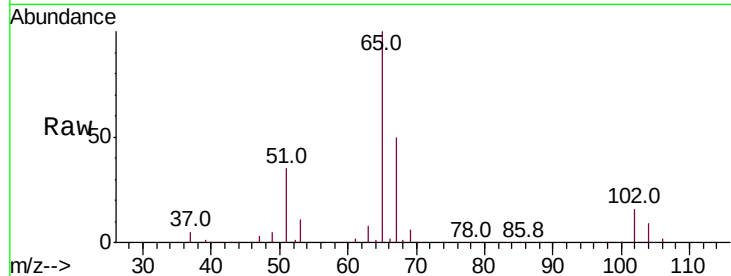




#33
 1,2-Dichloroethane-d4
 Concen: 54.036 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063930.D
 Acq: 7 Oct 2020 7:06

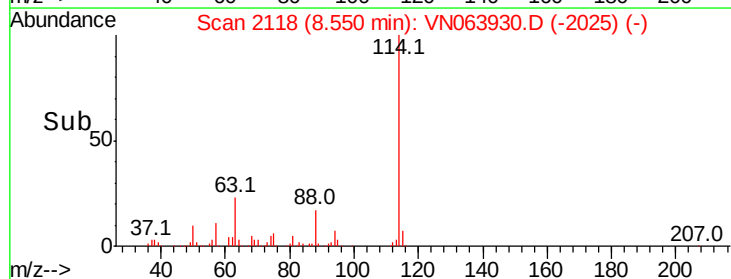
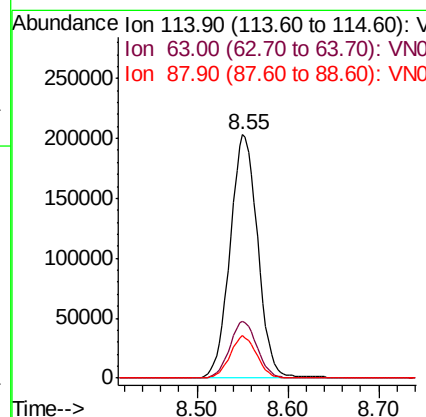
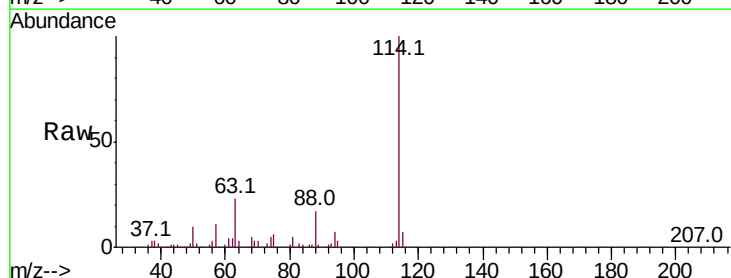
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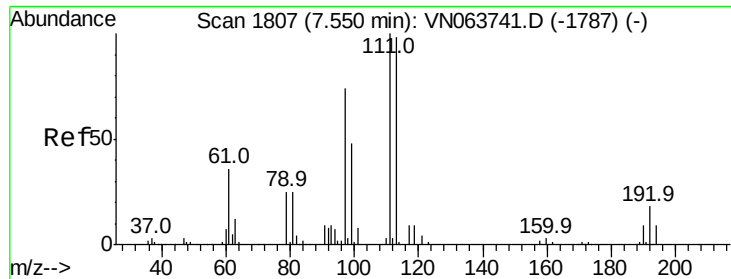
Tot Ion: 65 Resp: 202417
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063930.D
 Acq: 7 Oct 2020 7:06

Tgt Ion: 114 Resp: 427844
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.0
 88 17.4 0.0 34.0

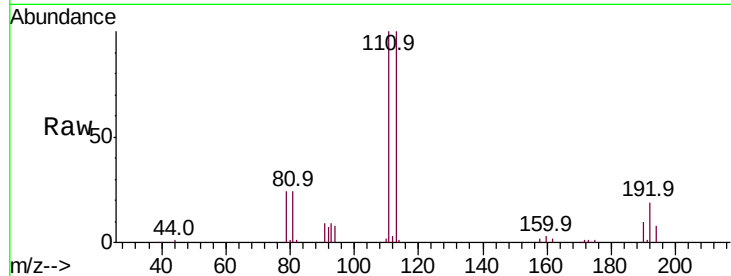




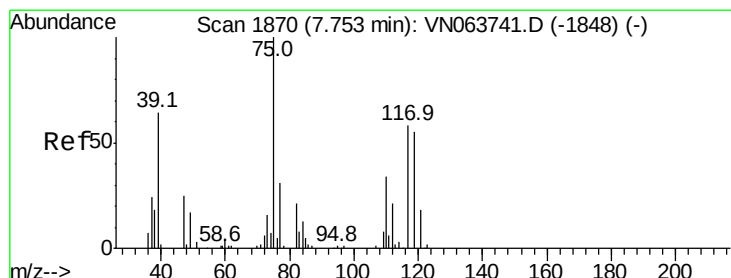
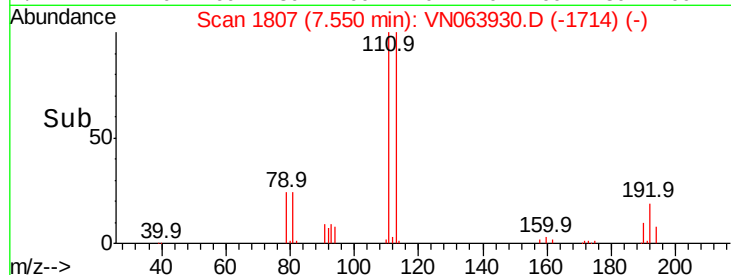
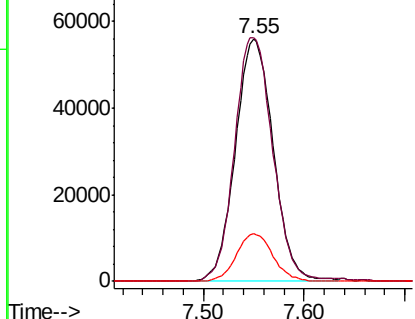
#35
 Dibromofluoromethane
 Concen: 49.150 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063930.D
 Acq: 7 Oct 2020 7:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B23-100220-18-19

Tot Ion:113 Resp: 145913
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.8 122.8
 192 18.8 14.2 21.2

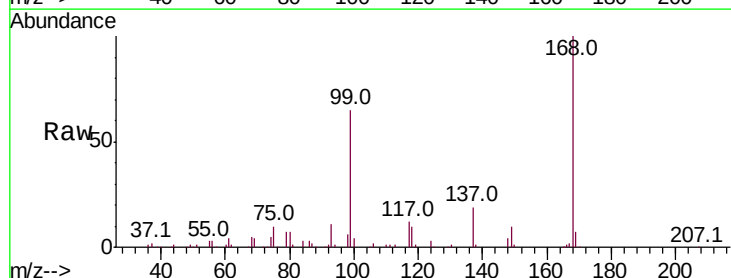


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

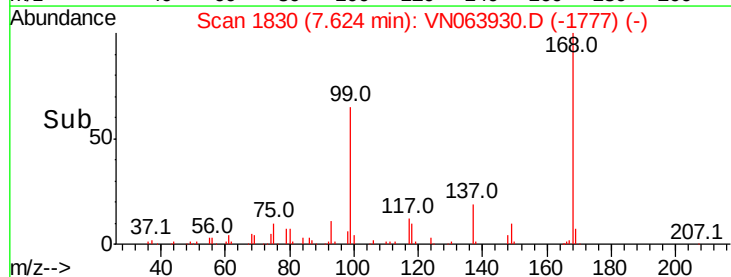
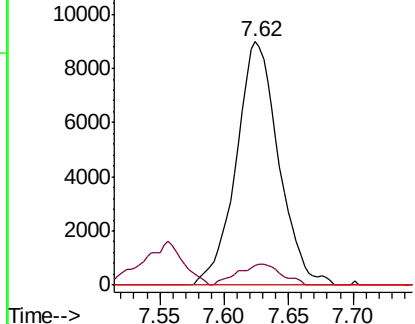


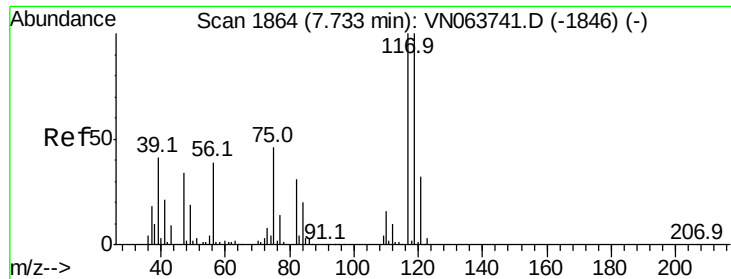
#36
 1,1-Dichloropropene
 Concen: 4.763 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063930.D
 Acq: 7 Oct 2020 7:06

Tgt Ion: 75 Resp: 20645
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.9 50.6#
 77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.187 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

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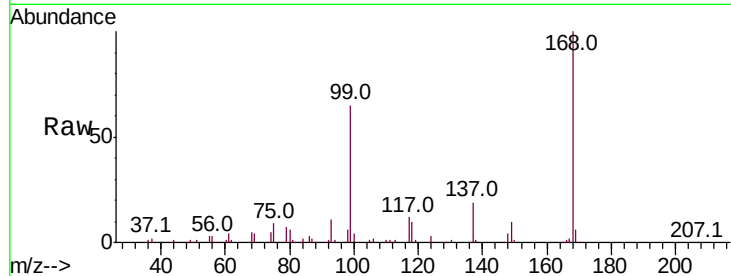
Tot Ion:117 Resp: 25213

Ion Ratio Lower Upper

117 100

119 5.1 80.1 120.1#

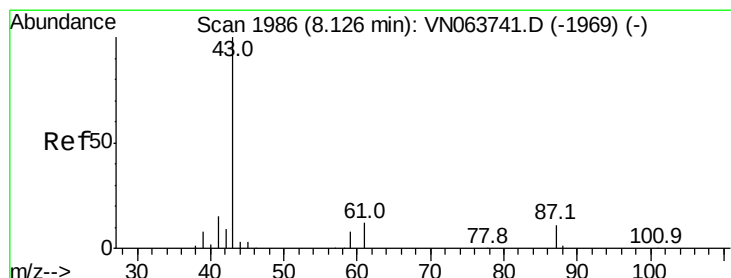
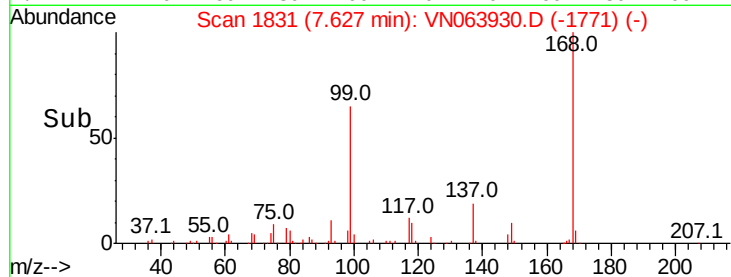
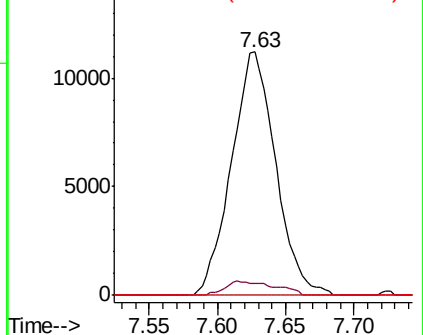
121 0.0 25.7 38.5#



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: 12.029 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

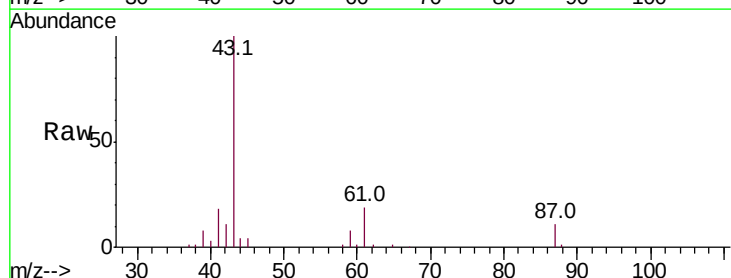
Tgt Ion: 43 Resp: 85447

Ion Ratio Lower Upper

43 100

61 17.6 14.2 21.4

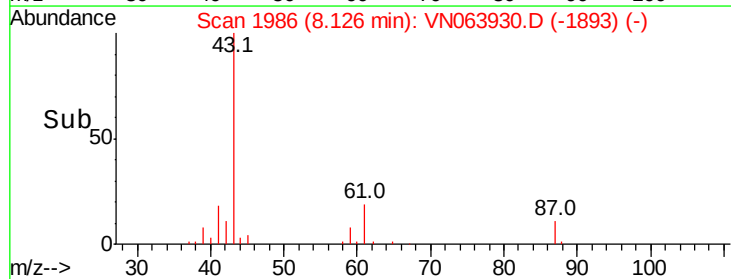
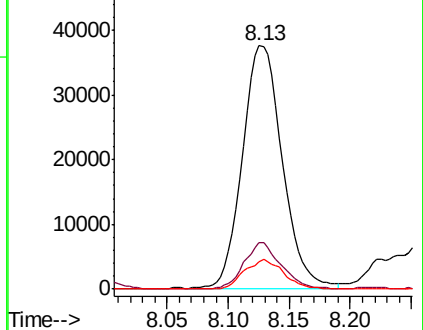
87 11.8 9.0 13.6

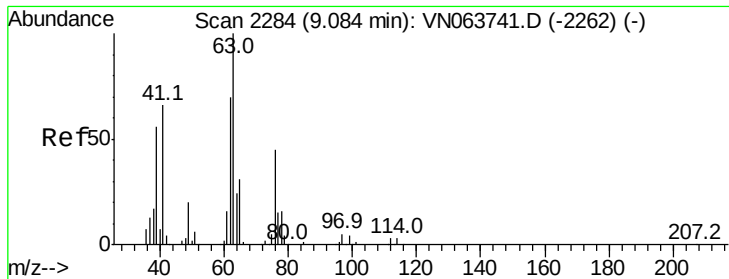


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.520 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

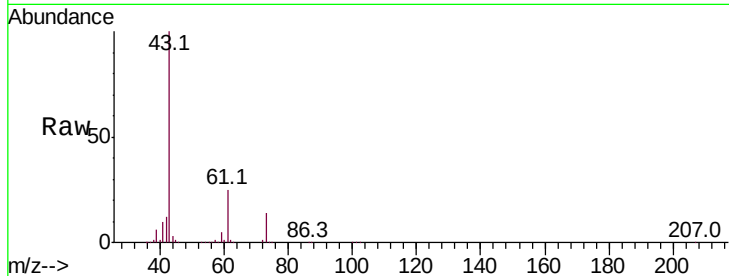
PAV-B23-100220-18-19

Tot Ion: 63 Resp: 1740

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

1200

1000

800

600

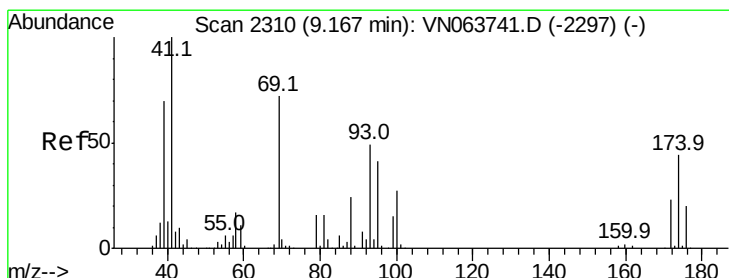
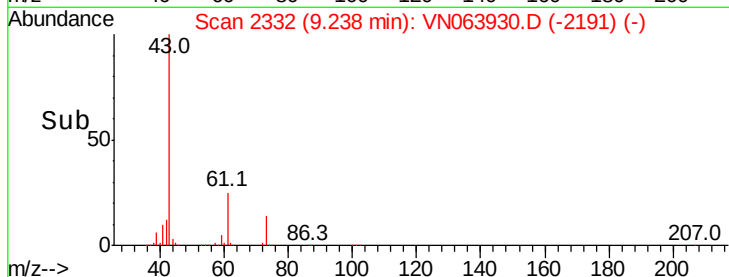
400

200

0

9.20 9.25

Time-->



#48

Methyl methacrylate

Concen: 1.748 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

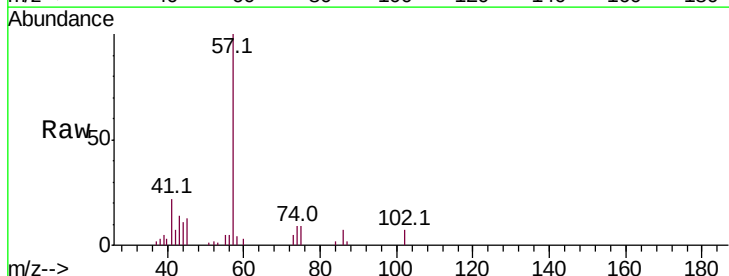
Tgt Ion: 41 Resp: 6133

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

100000

80000

60000

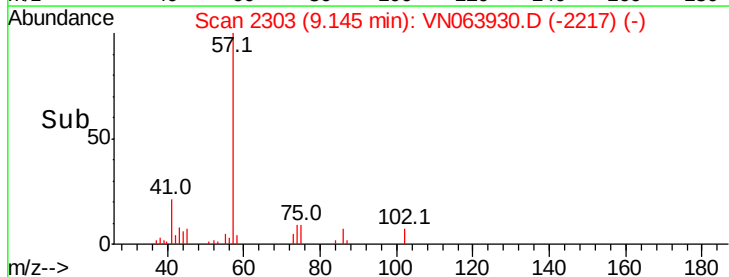
40000

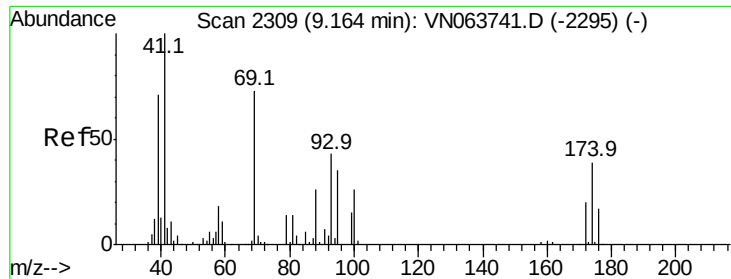
20000

0

9.10 9.15 9.20

Time-->

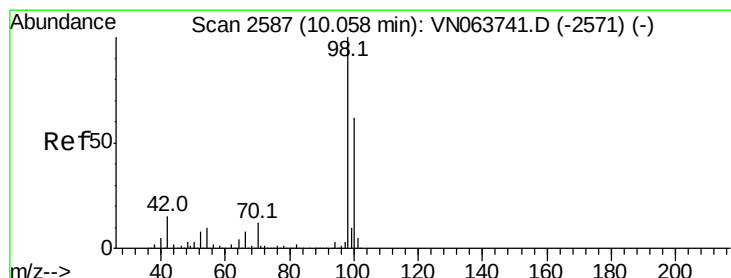
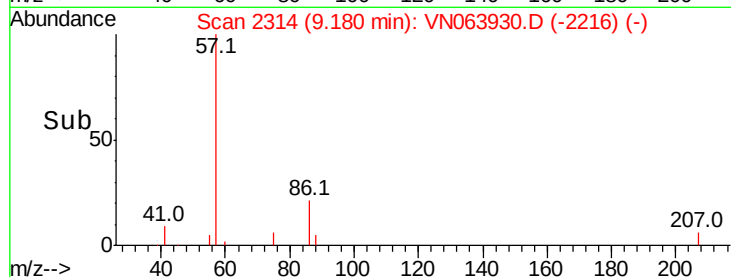
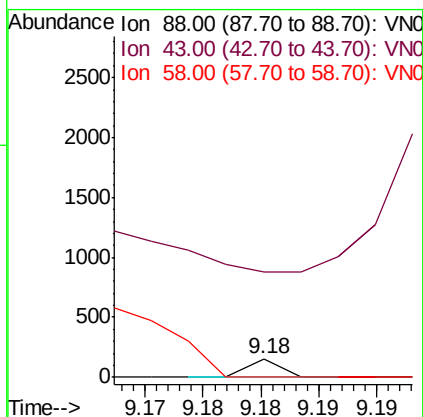
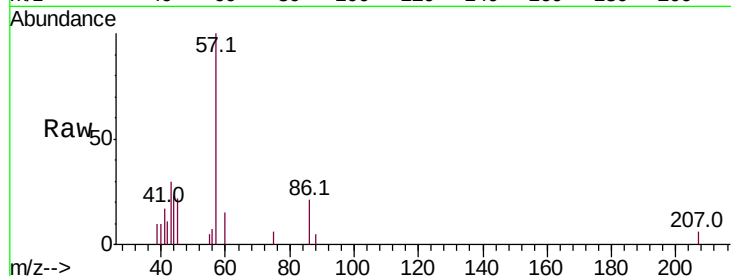




#49
1,4-Dioxane
Concen: 0.601 ug/l
RT: 9.18 min Scan# 2314
Delta R.T. 0.02 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

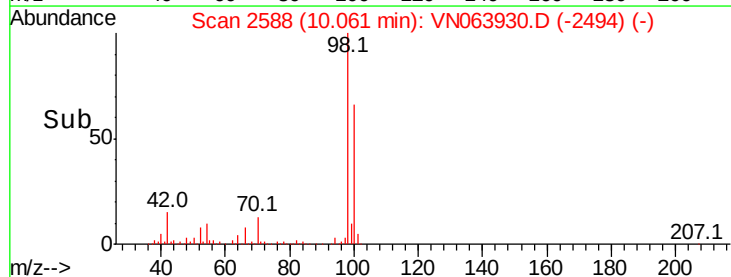
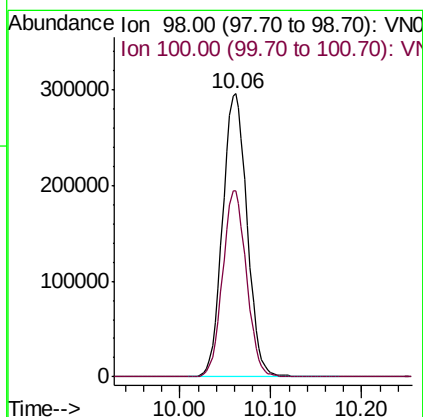
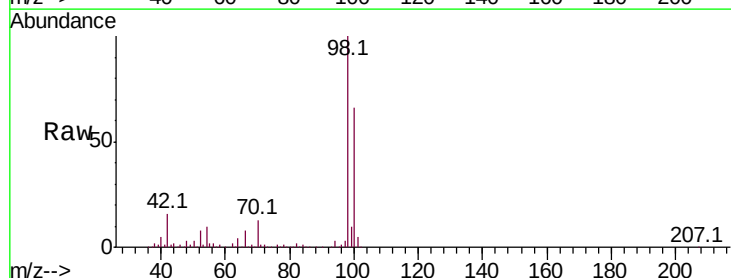
Instrument :
MSVOA_N
ClientSampleId :
PAV-B23-100220-18-19

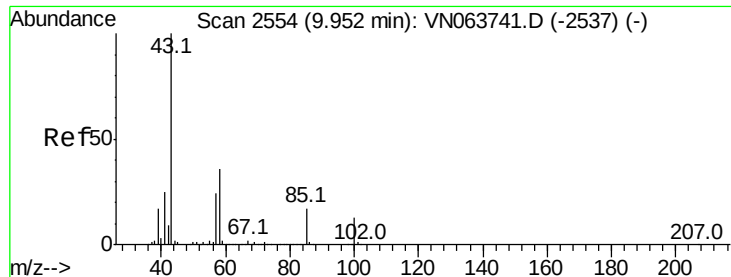
Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 33.1 49.7#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 49.205 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 98 Resp: 553751
Ion Ratio Lower Upper
98 100
100 63.8 49.8 74.6

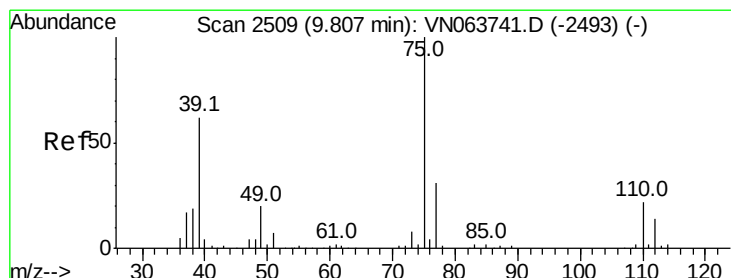
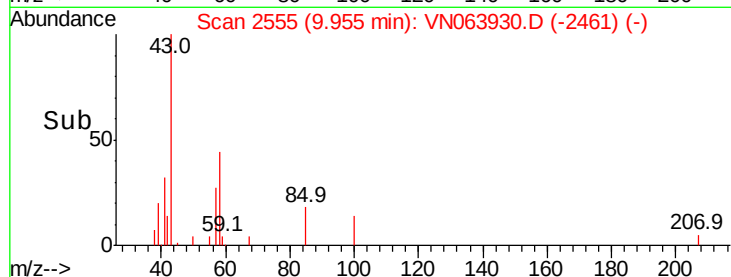
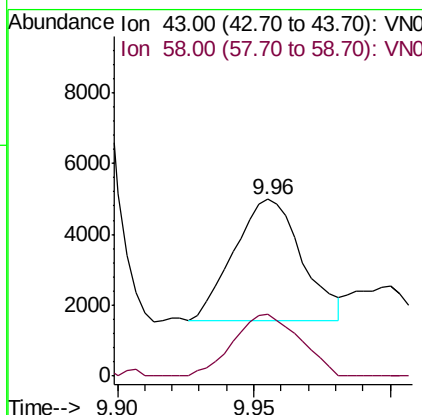
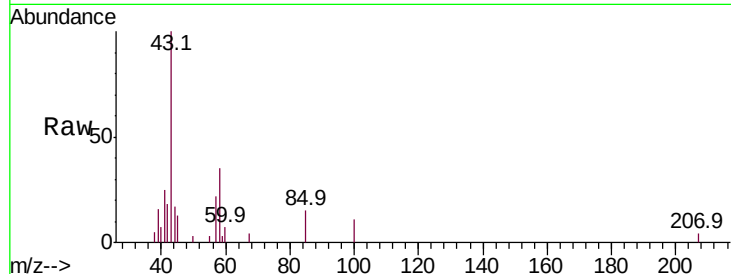




#51
4-Methyl-2-Pentanone
Concen: 1.413 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

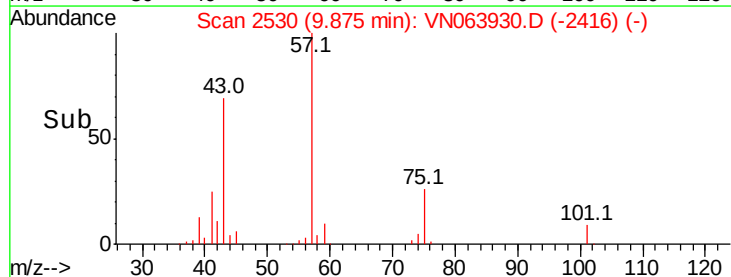
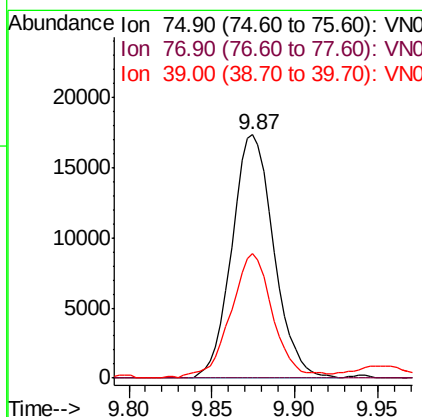
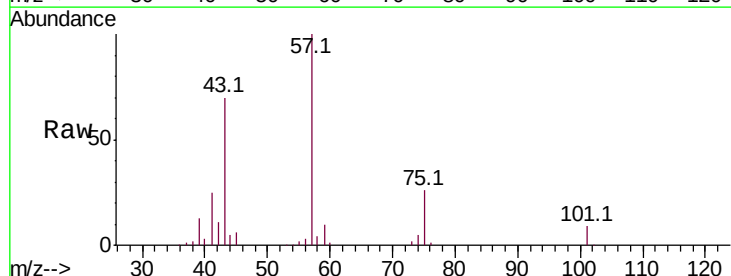
Instrument :
MSVOA_N
ClientSampleId :
PAV-B23-100220-18-19

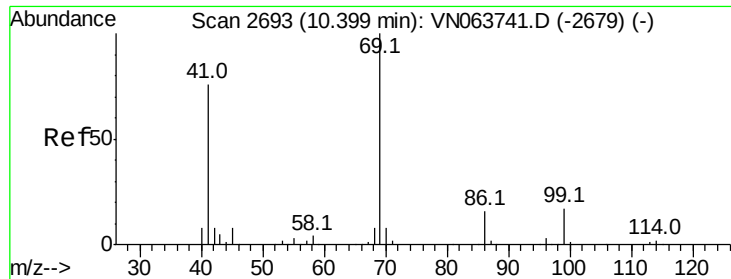
Tot Ion: 43 Resp: 5888
Ion Ratio Lower Upper
43 100
58 50.4 28.4 42.6#



#54
cis-1,3-Dichloropropene
Concen: 5.719 ug/l
RT: 9.87 min Scan# 2530
Delta R.T. 0.07 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 75 Resp: 30476
Ion Ratio Lower Upper
75 100
77 0.0 24.6 36.8#
39 49.5 49.7 74.5#





#56

Ethyl methacrylate

Concen: 0.574 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

PAV-B23-100220-18-19

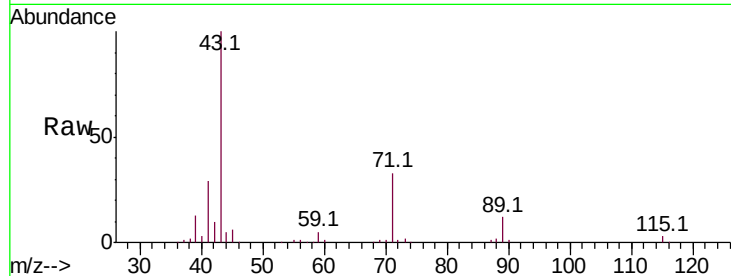
Tot Ion: 69 Resp: 2500

Ion Ratio Lower Upper

69 100

41 3535.6 61.1 91.7#

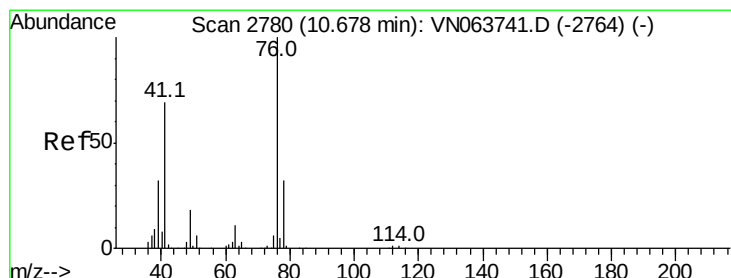
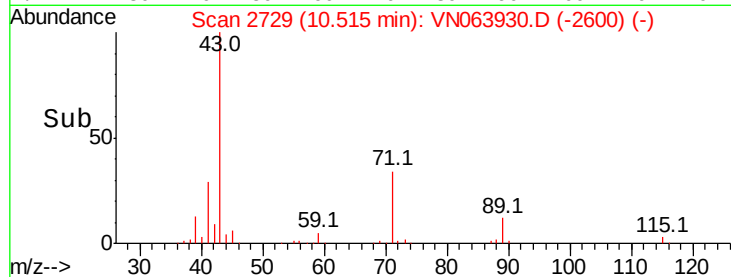
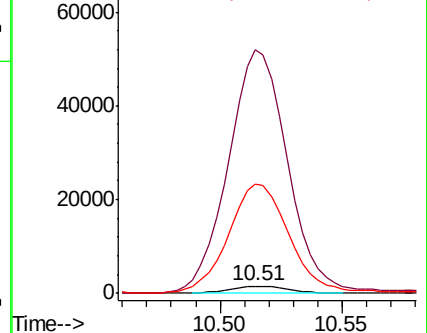
39 1588.9 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.056 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063930.D

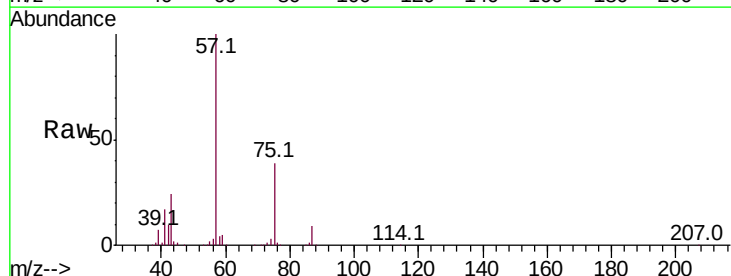
Acq: 7 Oct 2020 7:06

Tgt Ion: 76 Resp: 5487

Ion Ratio Lower Upper

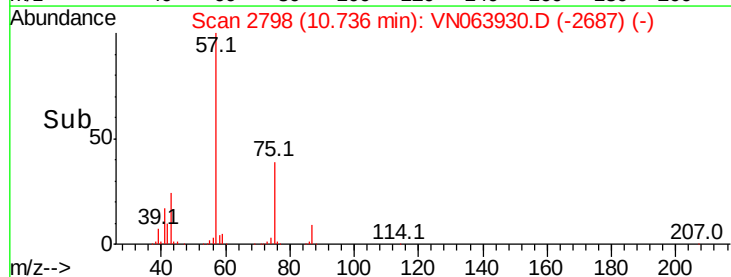
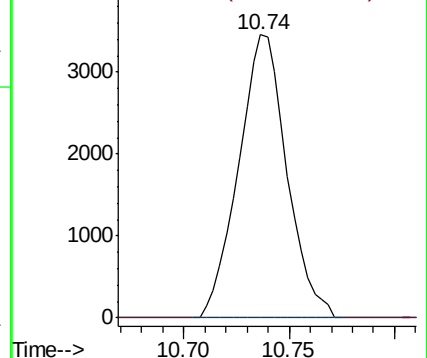
76 100

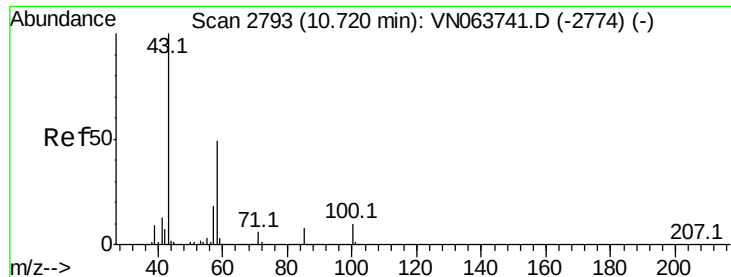
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

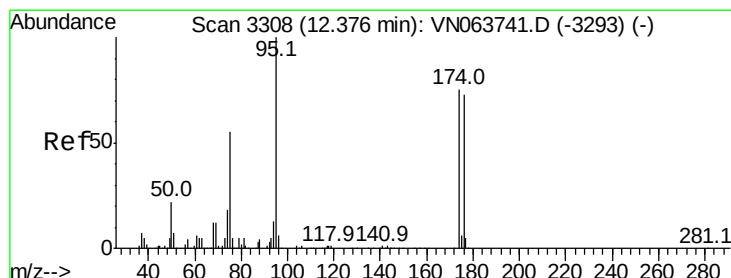
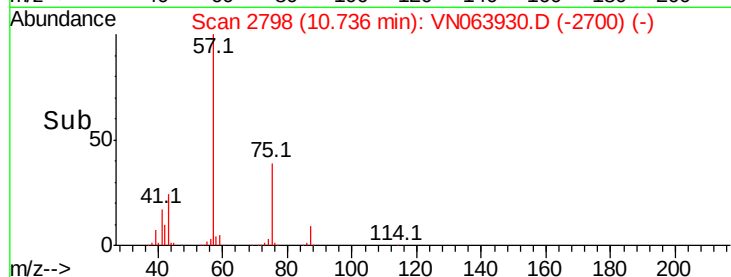
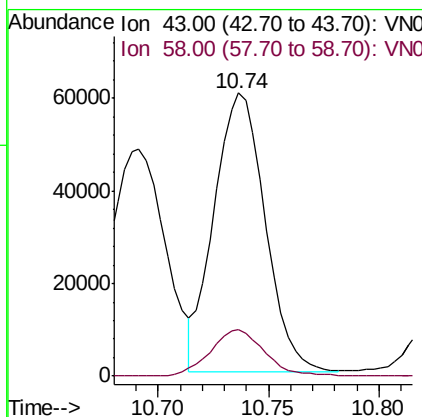
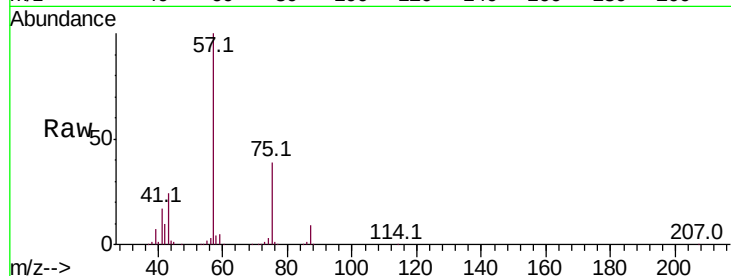




#59
2-Hexanone
Concen: 31.118 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

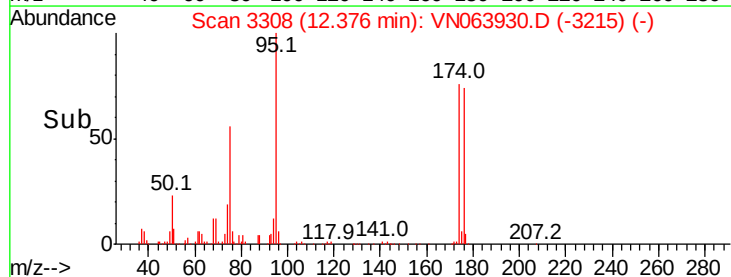
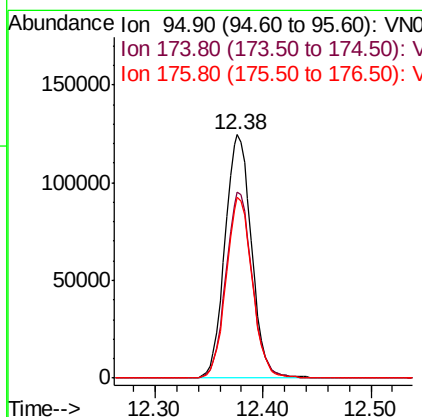
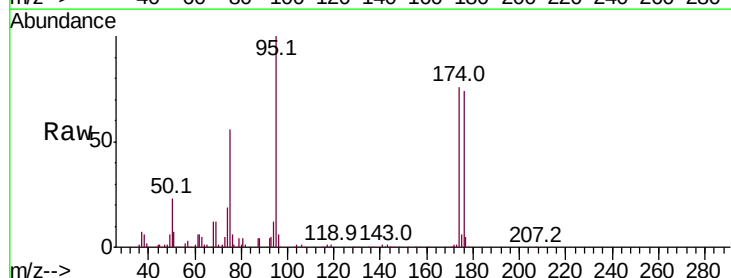
Instrument :
MSVOA_N
ClientSampleId :
PAV-B23-100220-18-19

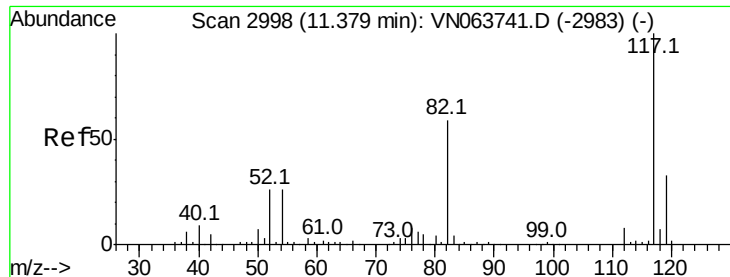
Tot Ion: 43 Resp: 96359
Ion Ratio Lower Upper
43 100
58 17.7 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 50.469 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063930.D
Acq: 7 Oct 2020 7:06

Tgt Ion: 95 Resp: 213510
Ion Ratio Lower Upper
95 100
174 75.8 0.0 150.6
176 73.0 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

PAV-B23-100220-18-19

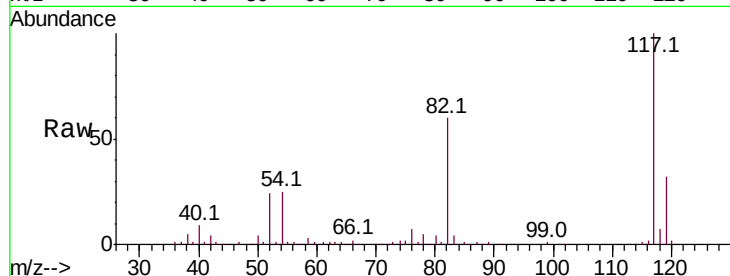
Tot Ion:117 Resp: 448792

Ion Ratio Lower Upper

117 100

82 59.5 47.4 71.2

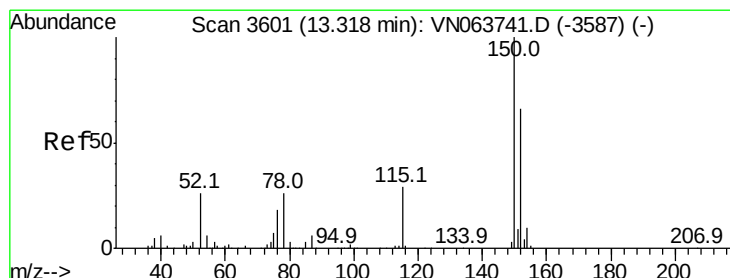
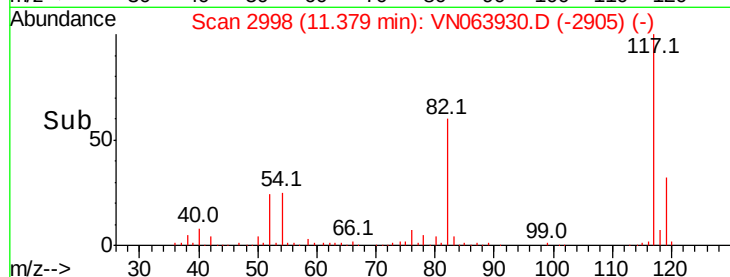
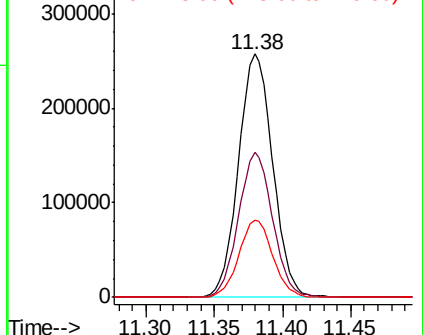
119 31.9 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): 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: VN063930.D

Acq: 7 Oct 2020 7:06

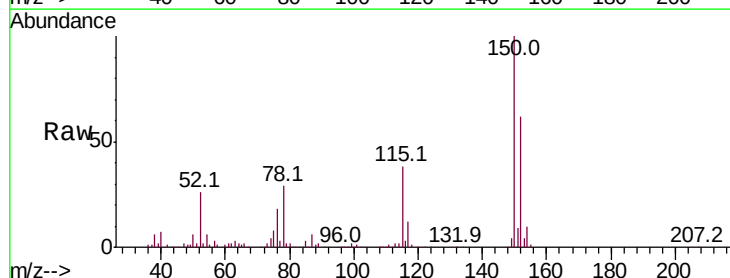
Tgt Ion:152 Resp: 174701

Ion Ratio Lower Upper

152 100

115 61.8 31.3 93.8

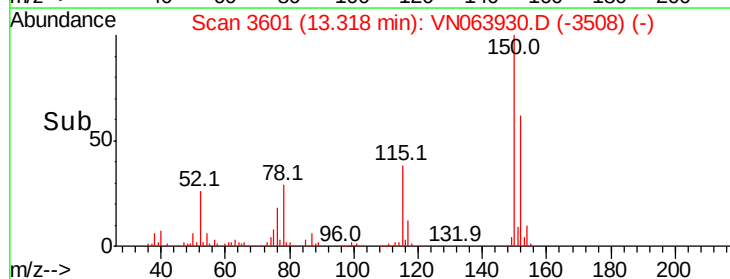
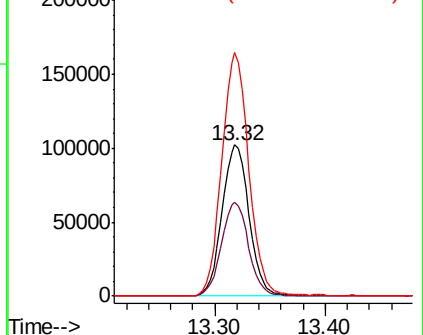
150 159.9 0.0 341.8

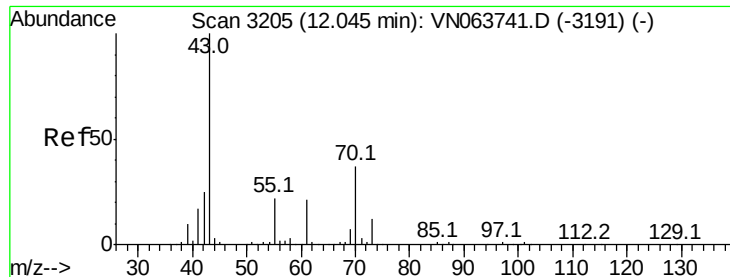


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.619 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

PAV-B23-100220-18-19

Tot Ion: 43 Resp: 2499

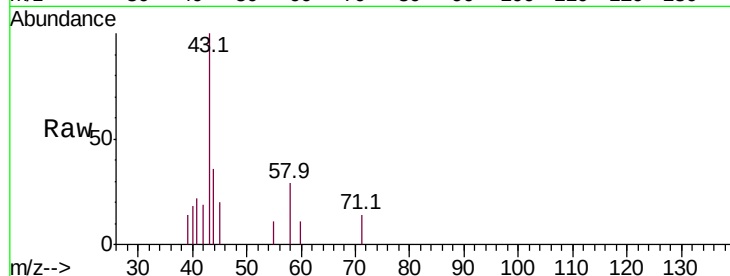
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 8.2 17.9 26.9#

61 0.0 17.0 25.4#

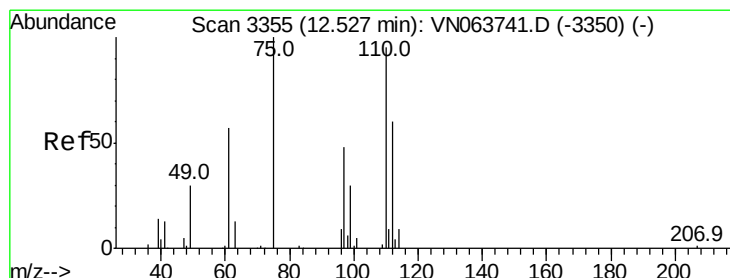
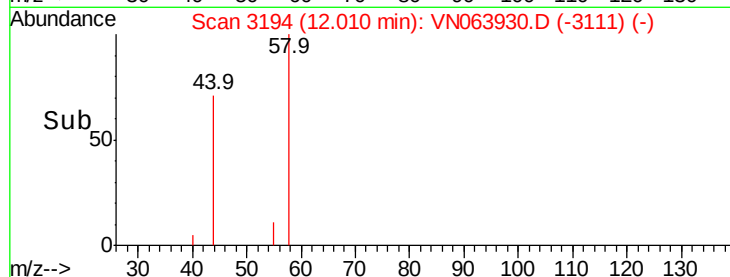
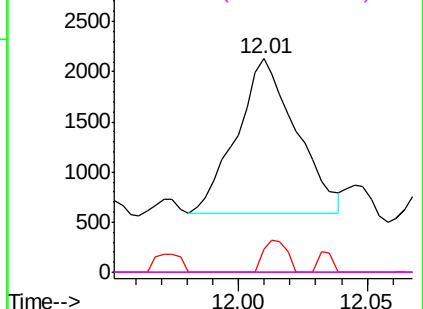


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.484 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063930.D

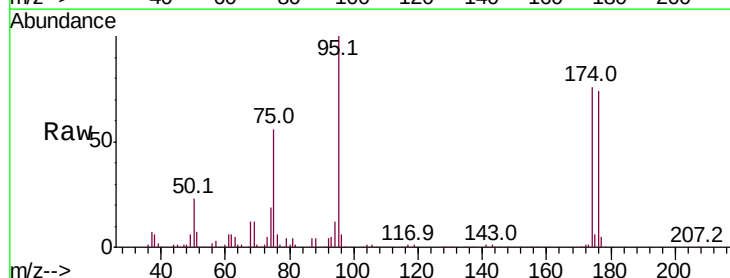
Acq: 7 Oct 2020 7:06

Tgt Ion: 75 Resp: 117396

Ion Ratio Lower Upper

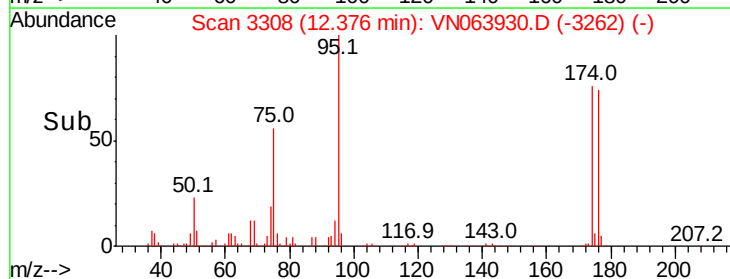
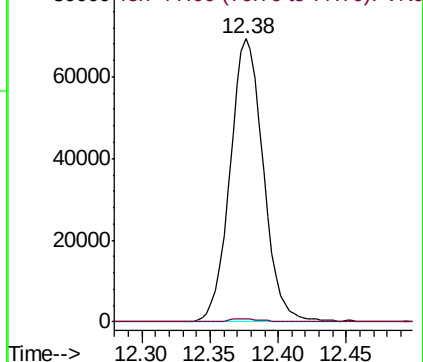
75 100

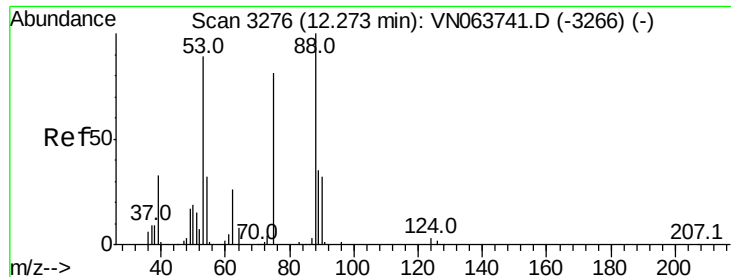
77 1.0 0.0 0.0#



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: 87.798 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

Instrument :

MSVOA_N

ClientSampleId :

PAV-B23-100220-18-19

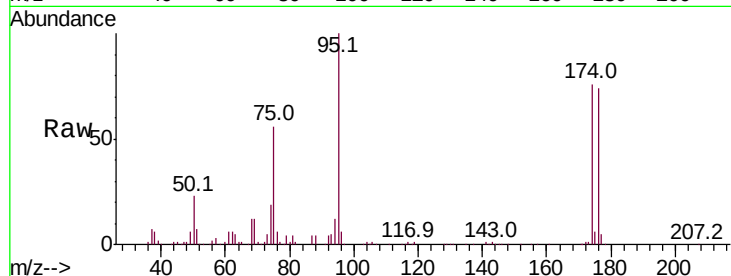
Tot Ion: 75 Resp: 117396

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

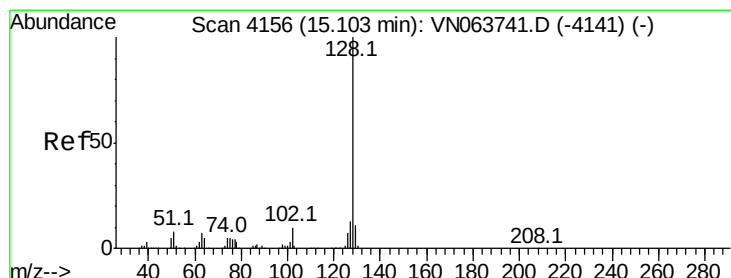
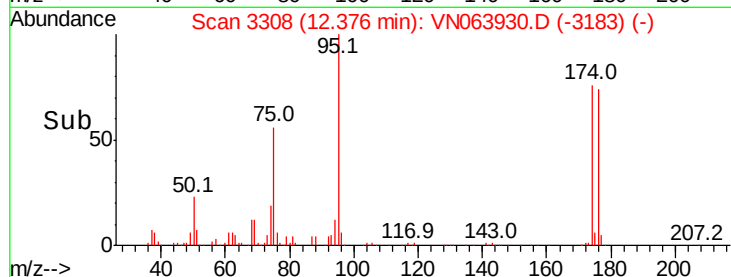
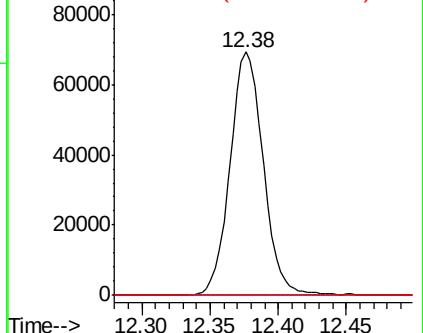
89 0.0 36.0 54.0#



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



#95

Naphthalene

Concen: 1.936 ug/l

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063930.D

Acq: 7 Oct 2020 7:06

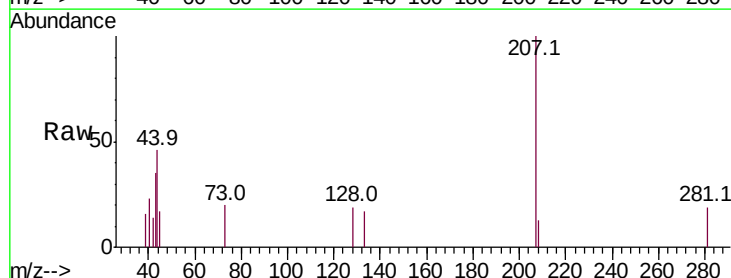
Tgt Ion: 128 Resp: 113

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

