

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064617.D
 Acq On : 13 Nov 2020 6:58
 Operator : JC/MD
 Sample : L4631-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B11-110420-14-15.25

Quant Time: Nov 13 07:38:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	221548	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	496889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	529370	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	188498	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	230991	59.86	ug/l	0.00
Spiked Amount			Recovery	=	119.72%	
35) Dibromofluoromethane	7.55	113	170072	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
50) Toluene-d8	10.06	98	642246	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.38	95	244544	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	

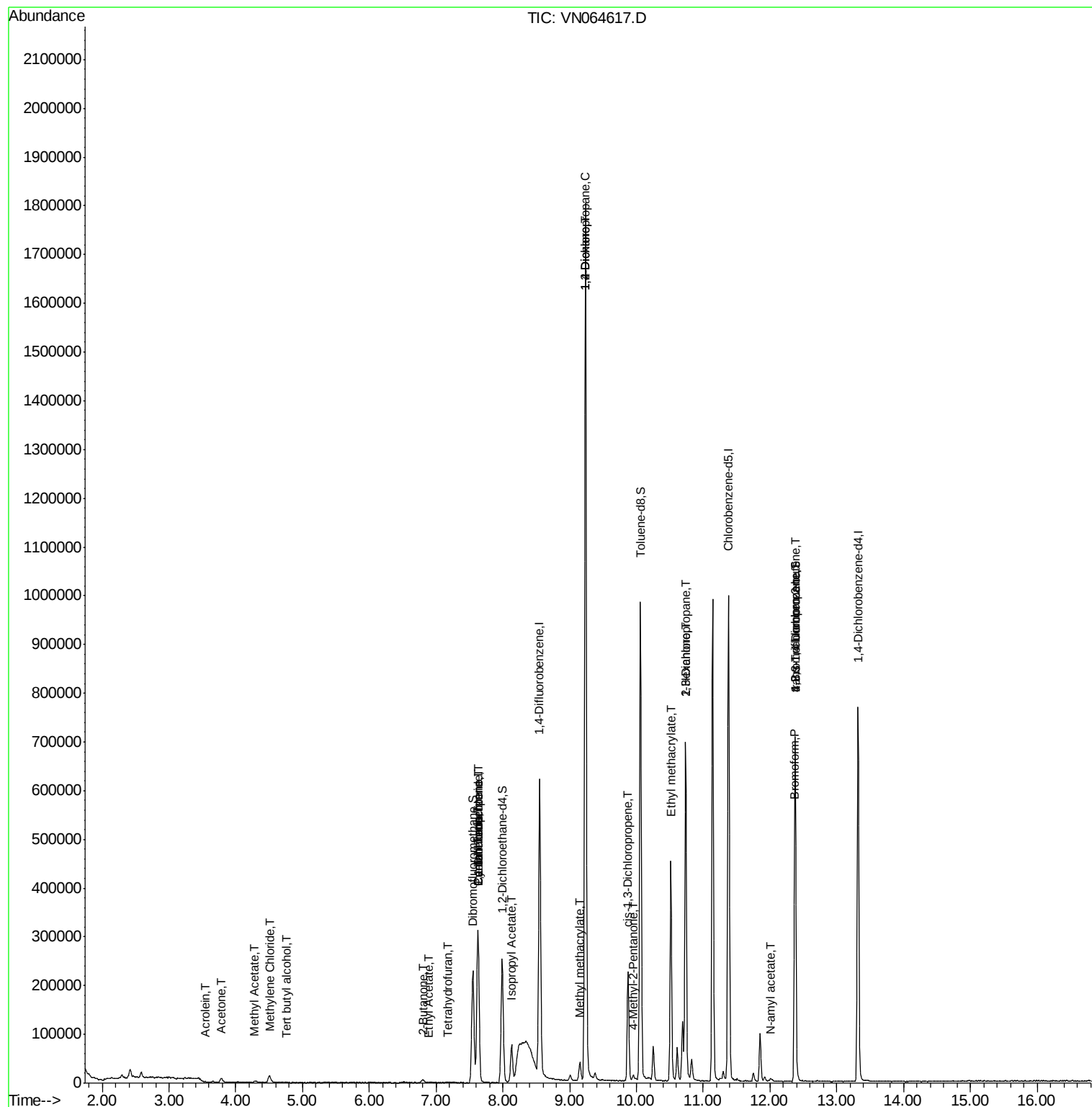
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	734	1.725	ug/l #	71
13) Acrolein	3.55	56	75	0.284	ug/l #	15
16) Acetone	3.78	43	14013	9.533	ug/l	99
18) Methyl Acetate	4.29	43	7568	2.619	ug/l #	72
20) Methylene Chloride	4.51	84	9979	3.422	ug/l #	68
25) 2-Butanone	6.80	43	3912	2.089	ug/l #	81
29) Tetrahydrofuran	7.16	42	401	0.349	ug/l #	62
31) Cyclohexane	7.62	56	6800	1.450	ug/l #	14
36) 1,1-Dichloropropene	7.62	75	21711	4.136	ug/l #	46
37) Ethyl Acetate	6.89	43	127	0.786	ug/l #	71
38) Carbon Tetrachloride	7.63	117	25592	4.562	ug/l #	17
43) Isopropyl Acetate	8.13	43	92994	10.932	ug/l	99
45) 1,2-Dichloropropane	9.24	63	2397	0.582	ug/l #	45
48) Methyl methacrylate	9.15	41	6460	1.505	ug/l #	15
49) 1,4-Dioxane	9.24	88	210	3.714	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6630	1.336	ug/l #	78
54) cis-1,3-Dichloropropene	9.87	75	35259	5.339	ug/l #	73
56) Ethyl methacrylate	10.51	69	3568	2.410	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6160	0.962	ug/l #	42
59) 2-Hexanone	10.74	43	105165	29.606	ug/l #	58
71) Bromoform	12.36	173	80	1.299	ug/l #	1
74) N-amyl acetate	12.00	43	2978	1.614	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	132298	28.967	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132298	80.880	ug/l #	8

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

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 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: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

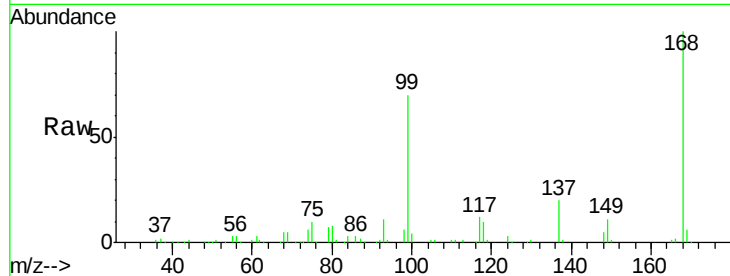
PAV-B11-110420-14-15.25

Tot Ion:168 Resp: 221548

Ion Ratio Lower Upper

168 100

99 69.6 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

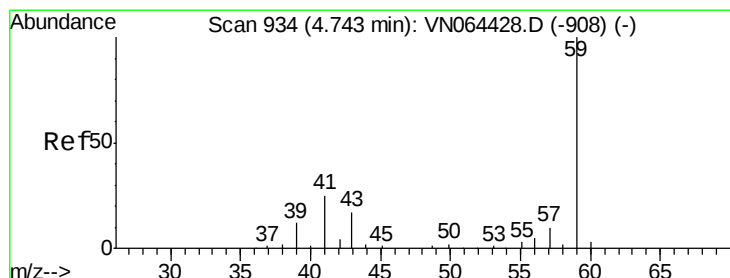
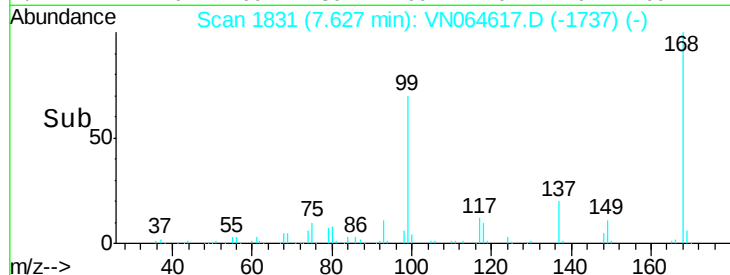
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 1.725 ug/l

RT: 4.76 min Scan# 938

Delta R.T. 0.01 min

Lab File: VN064617.D

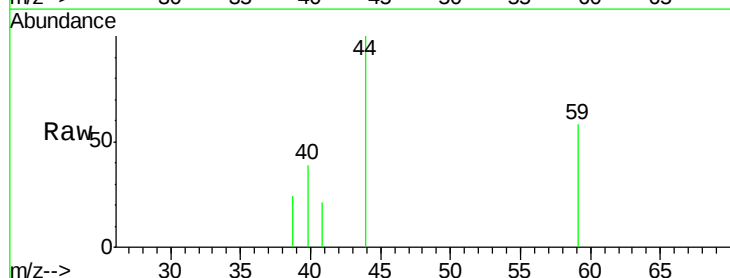
Acq: 13 Nov 2020 6:58

Tgt Ion: 59 Resp: 734

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

400

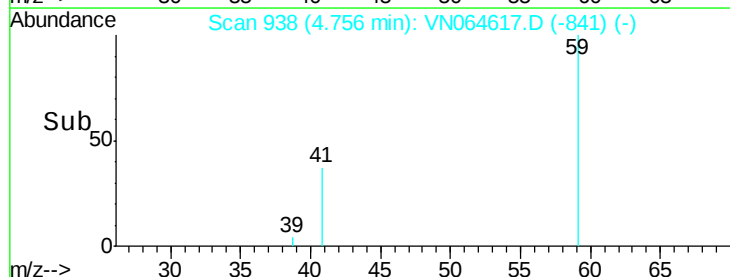
300

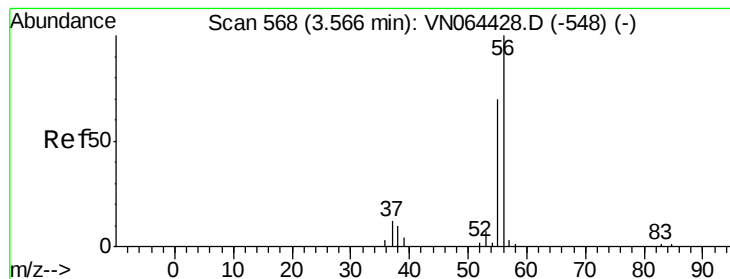
200

100

0

Time--> 4.74 4.76 4.78 4.80





#13

Acrolein

Concen: 0.284 ug/l

RT: 3.55 min Scan# 564

Delta R.T. -0.01 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

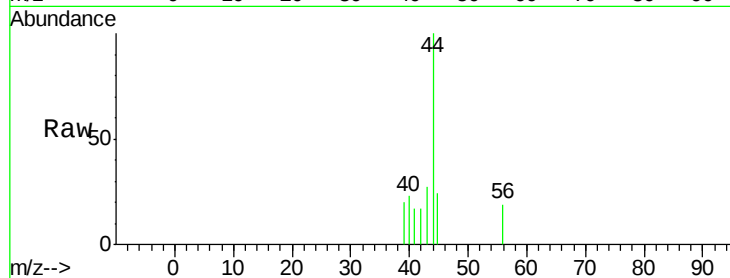
PAV-B11-110420-14-15.25

Tot Ion: 56 Resp: 75

Ion Ratio Lower Upper

56 100

55 0.0 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.55

200

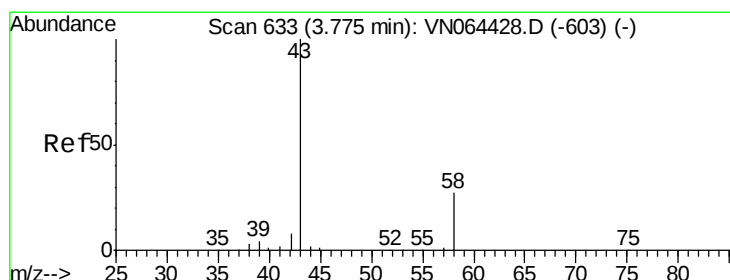
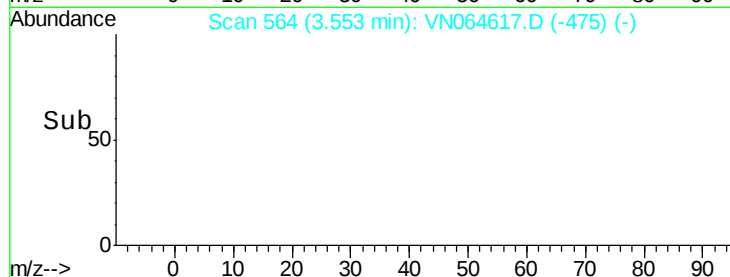
150

100

50

0

Time--> 3.54 3.55 3.56



#16

Acetone

Concen: 9.533 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064617.D

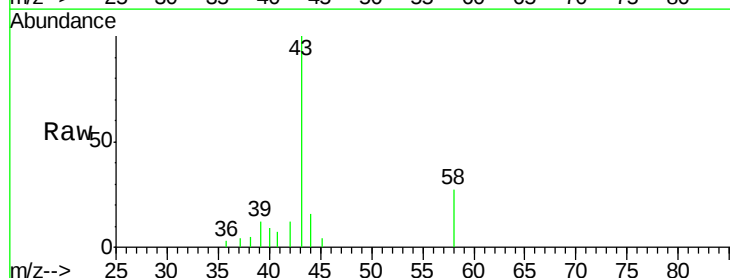
Acq: 13 Nov 2020 6:58

Tgt Ion: 43 Resp: 14013

Ion Ratio Lower Upper

43 100

58 27.4 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

6000

5000

4000

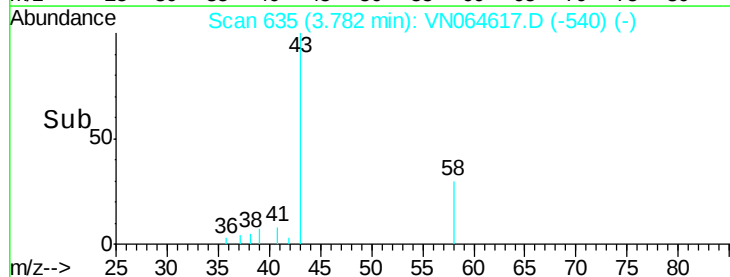
3000

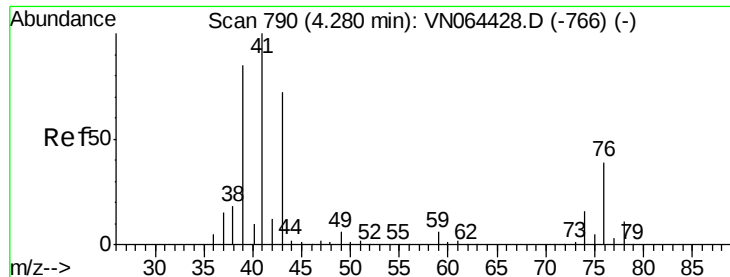
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

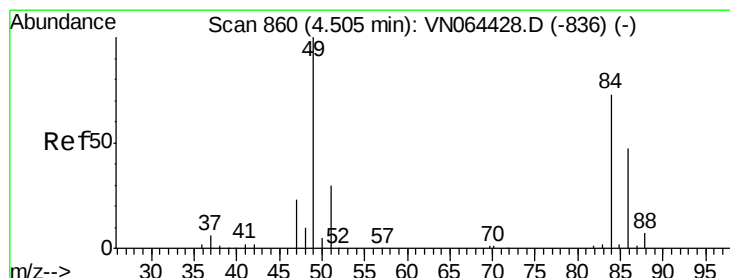
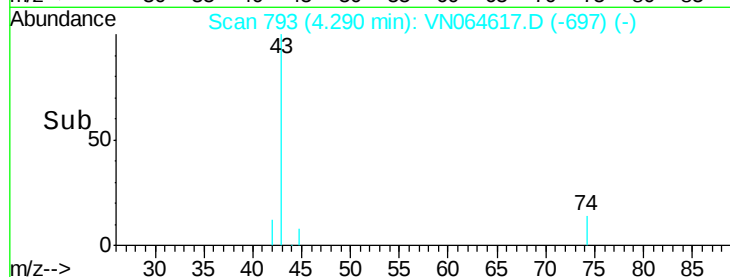
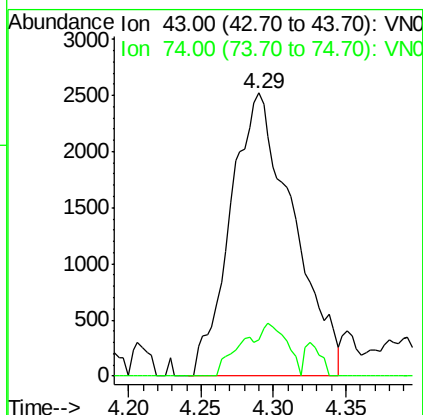
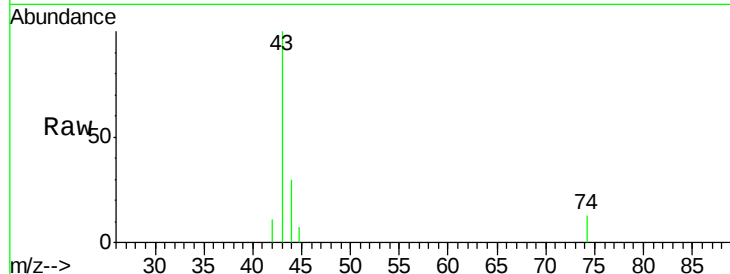




#18
Methyl Acetate
Concen: 2.619 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

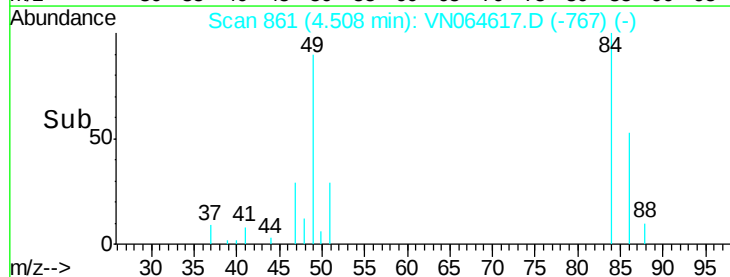
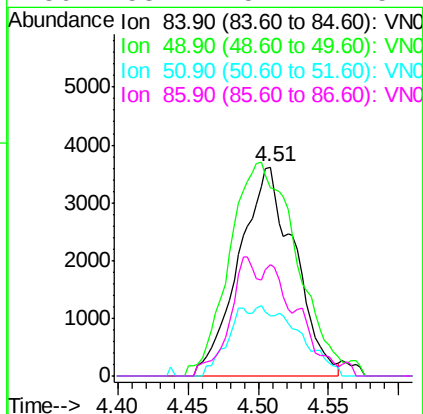
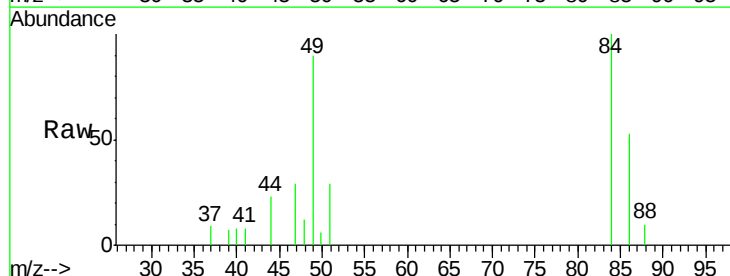
Instrument :
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PAV-B11-110420-14-15.25

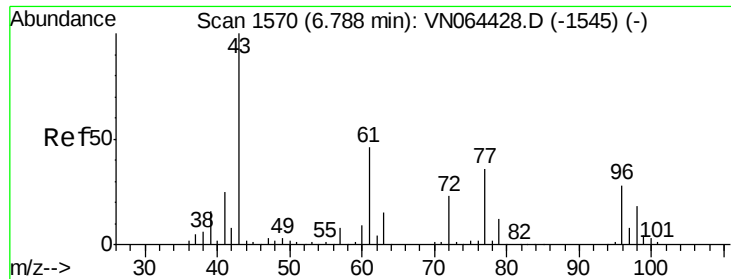
Tot Ion: 43 Resp: 7568
Ion Ratio Lower Upper
43 100
74 8.0 17.0 25.4#



#20
Methylene Chloride
Concen: 3.422 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Tgt Ion: 84 Resp: 9979
Ion Ratio Lower Upper
84 100
49 85.6 110.1 165.1#
51 28.5 33.6 50.4#
86 53.2 52.1 78.1





#25

2-Butanone

Concen: 2.089 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

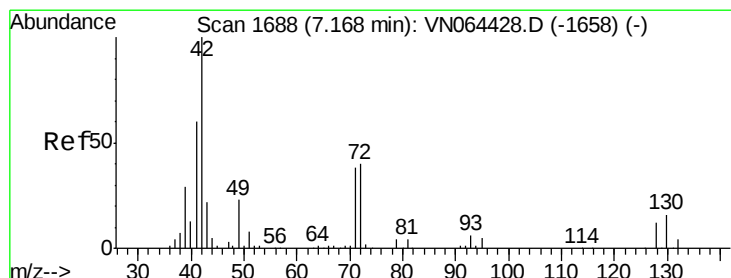
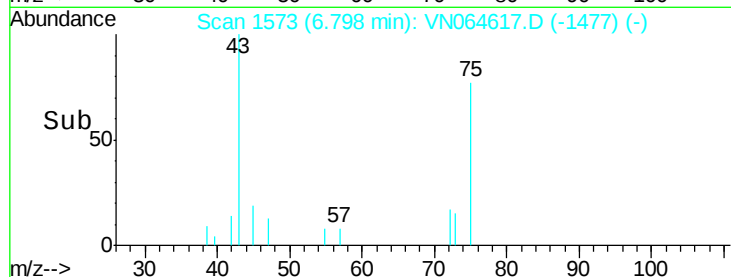
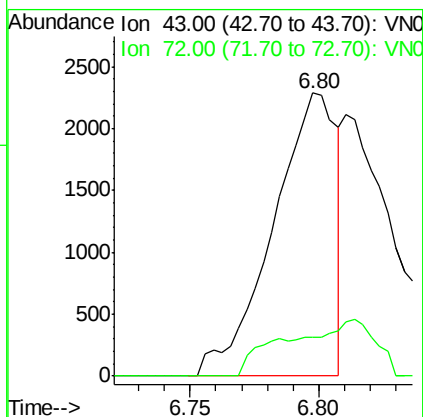
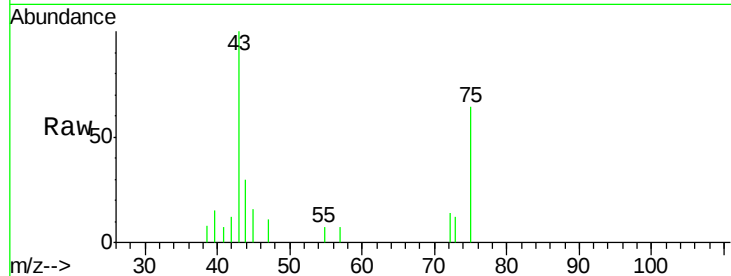
PAV-B11-110420-14-15.25

Tot Ion: 43 Resp: 3912

Ion Ratio Lower Upper

43 100

72 13.7 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

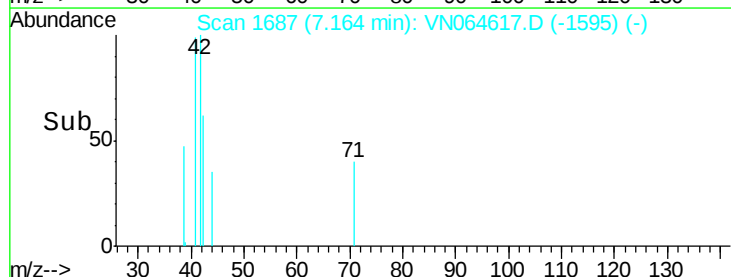
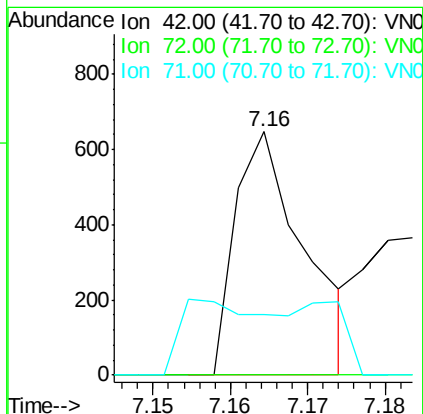
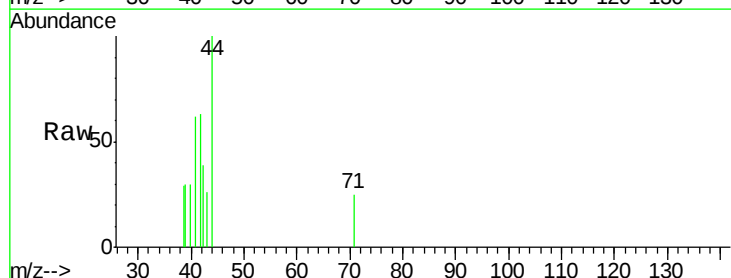
Tgt Ion: 42 Resp: 401

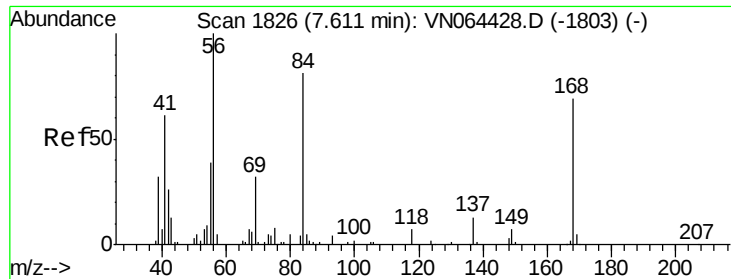
Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 42.6 29.8 44.6

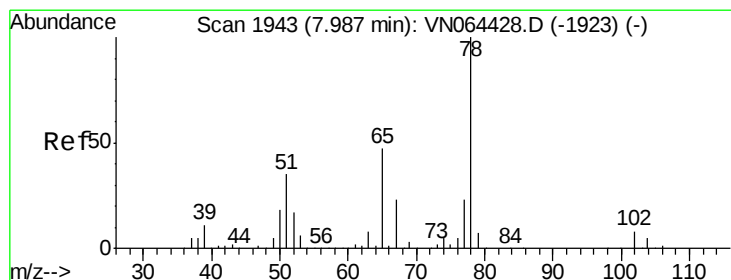
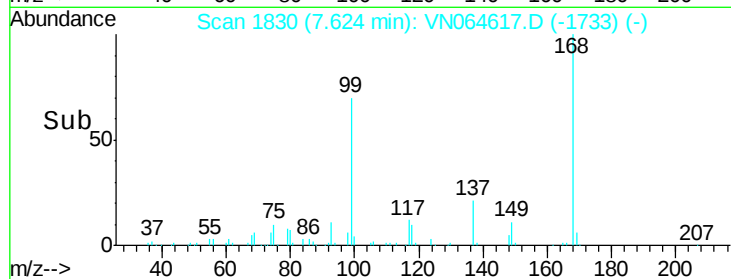
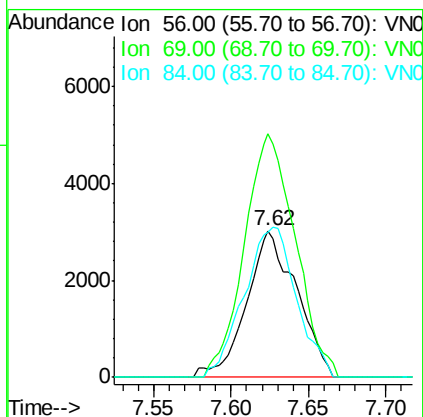
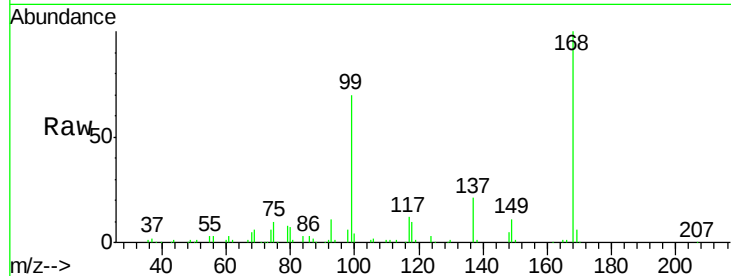




#31
Cyclohexane
Concen: 1.450 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

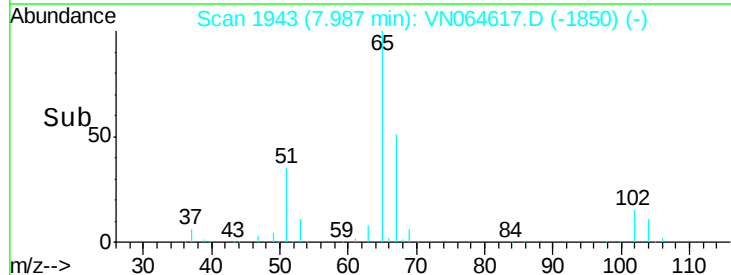
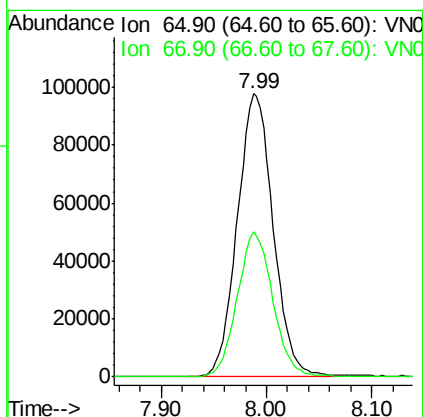
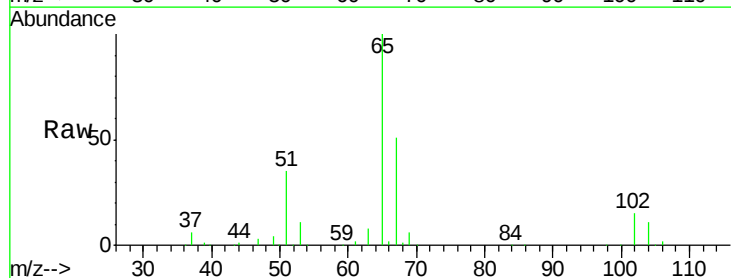
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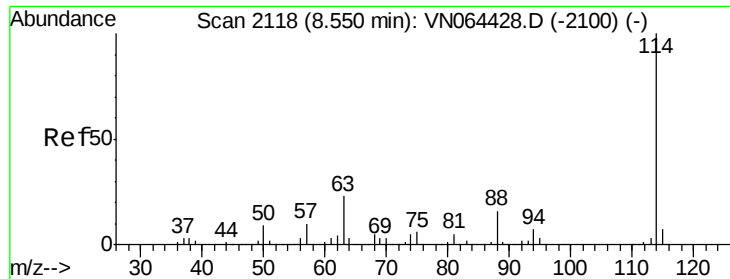
Tot Ion: 56 Resp: 6800
Ion Ratio Lower Upper
56 100
69 166.3 25.6 38.4#
84 98.9 63.0 94.6#



#33
1,2-Dichloroethane-d4
Concen: 59.857 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Tgt Ion: 65 Resp: 230991
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.6

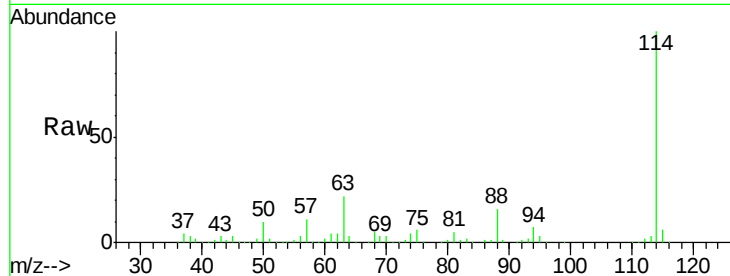




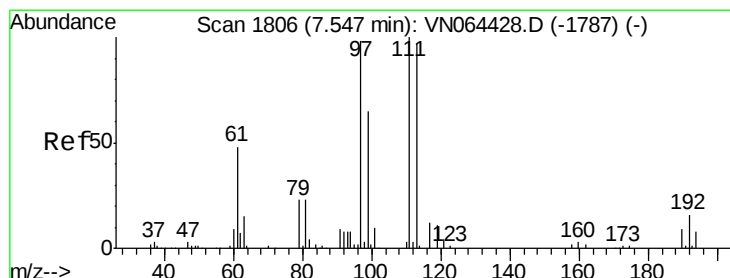
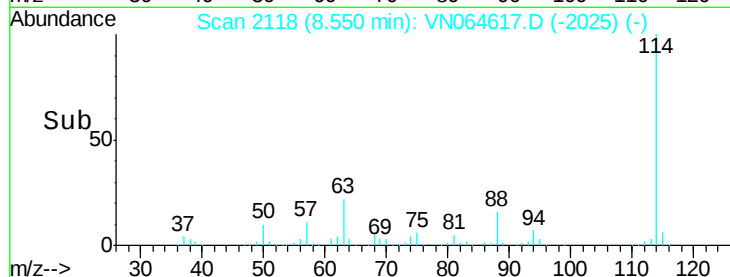
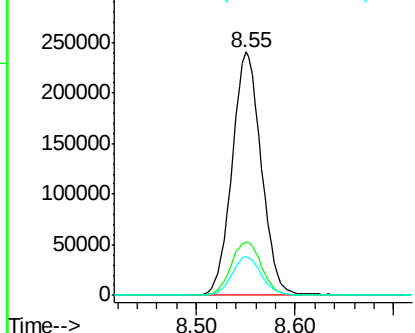
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Instrument :
MSVOA_N
ClientSampleId :
PAV-B11-110420-14-15.25

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	45.6
88	15.7	0.0	32.8

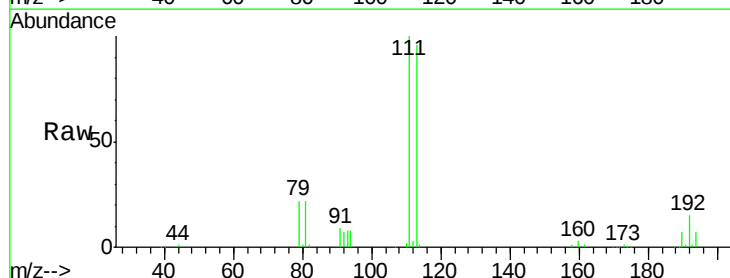


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

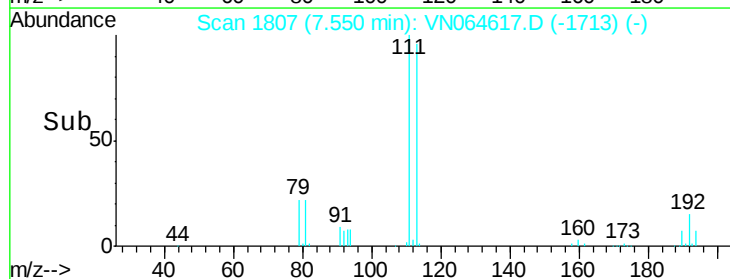
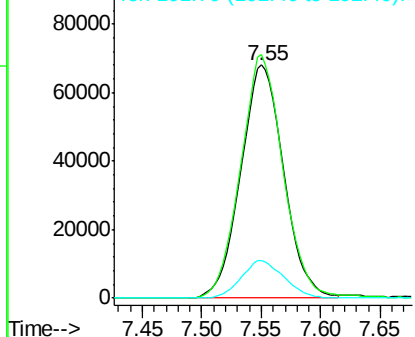


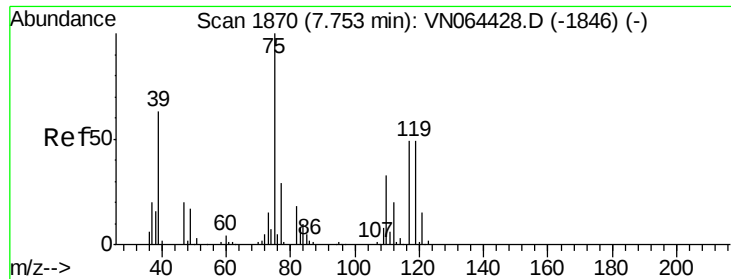
#35
Dibromofluoromethane
Concen: 50.271 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.1	121.7
192	16.1	12.8	19.2



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: 4.136 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

PAV-B11-110420-14-15.25

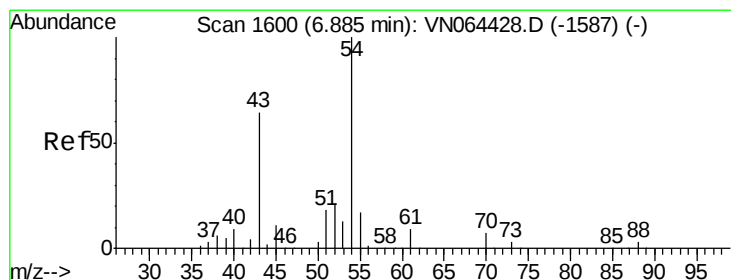
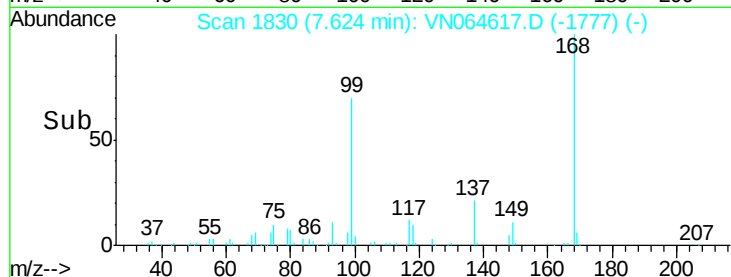
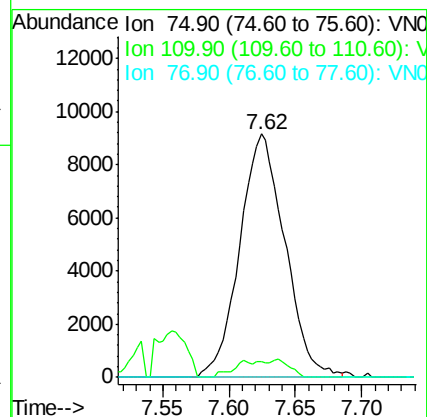
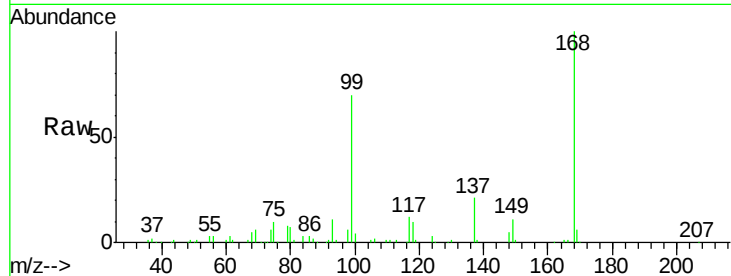
Tot Ion: 75 Resp: 21711

Ion Ratio Lower Upper

75 100

110 3.1 16.0 48.0#

77 0.0 24.0 36.0#



#37

Ethyl Acetate

Concen: 0.786 ug/l

RT: 6.89 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

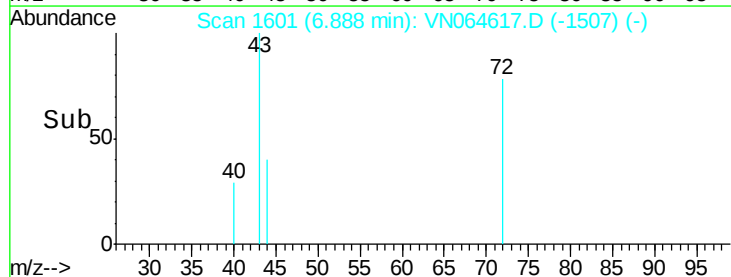
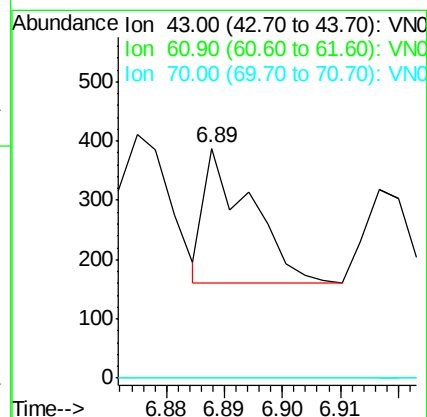
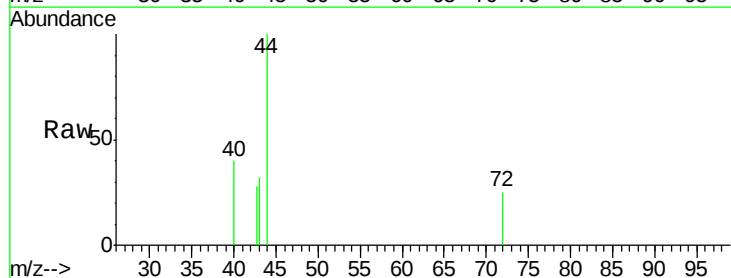
Tgt Ion: 43 Resp: 127

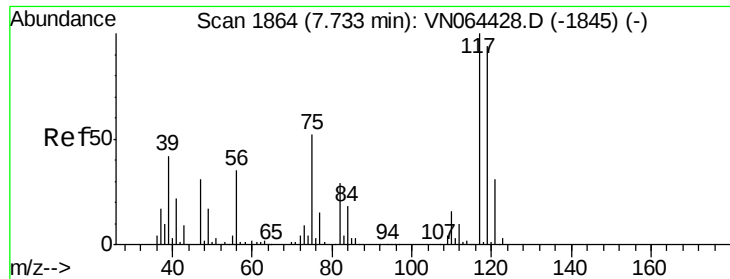
Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 4.562 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

PAV-B11-110420-14-15.25

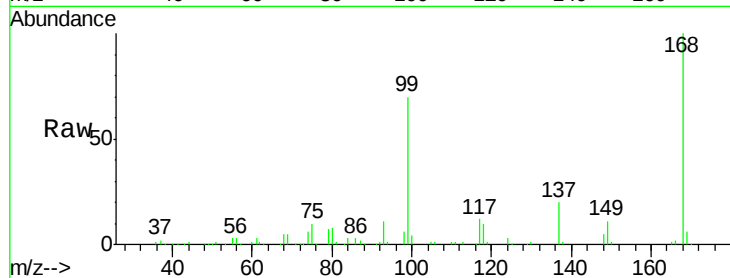
Tot Ion:117 Resp: 25592

Ion Ratio Lower Upper

117 100

119 5.1 75.5 113.3#

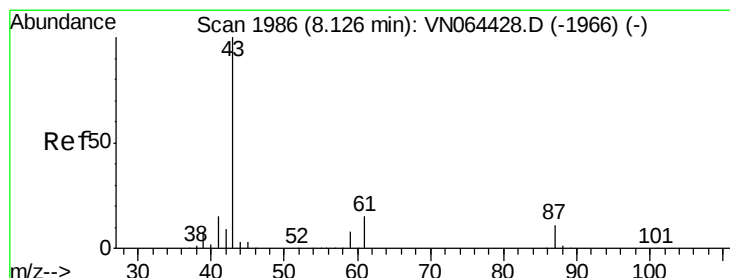
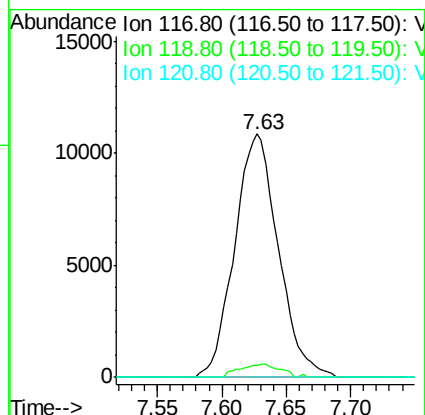
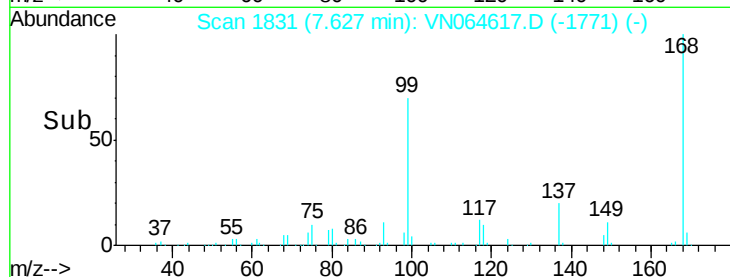
121 0.0 24.4 36.6#



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: 10.932 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

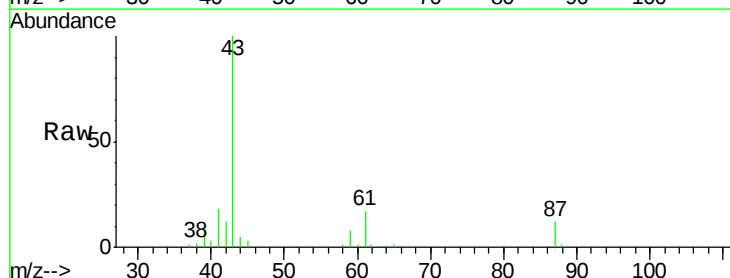
Tgt Ion: 43 Resp: 92994

Ion Ratio Lower Upper

43 100

61 16.6 14.0 21.0

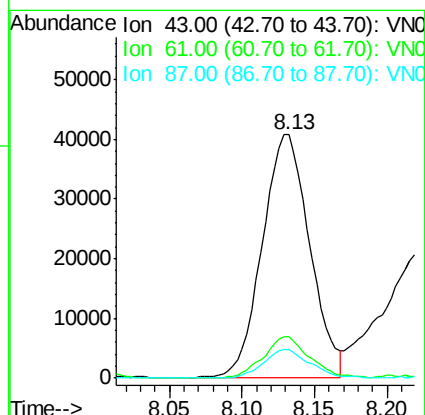
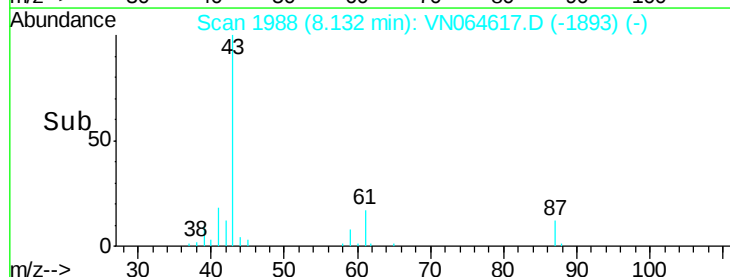
87 11.4 9.1 13.7

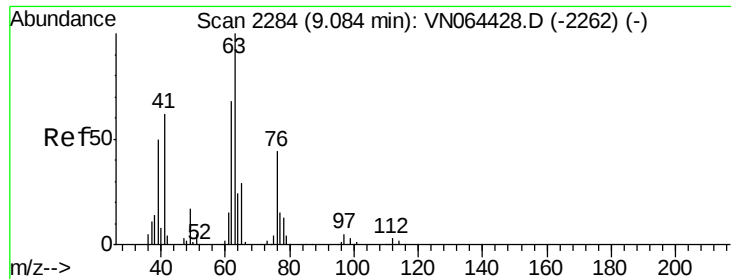


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.582 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

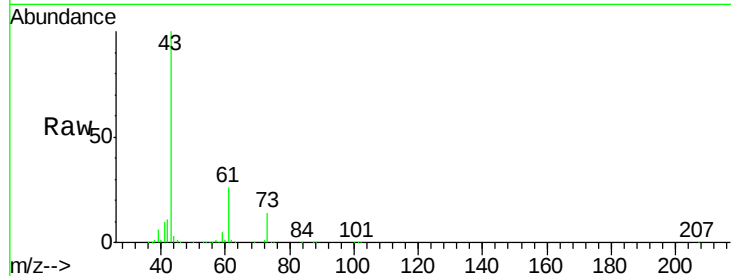
PAV-B11-110420-14-15.25

Tot Ion: 63 Resp: 2397

Ion Ratio Lower Upper

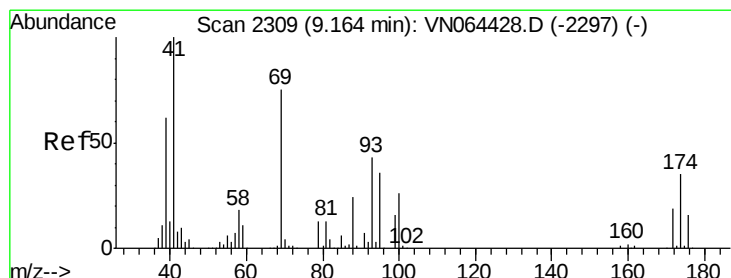
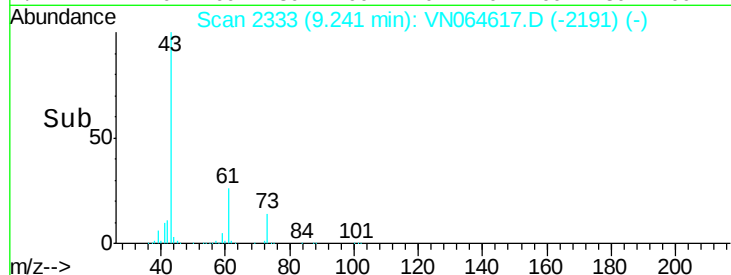
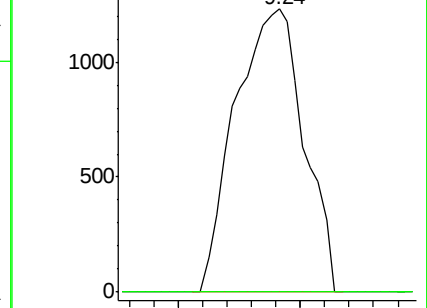
63 100

65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.505 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

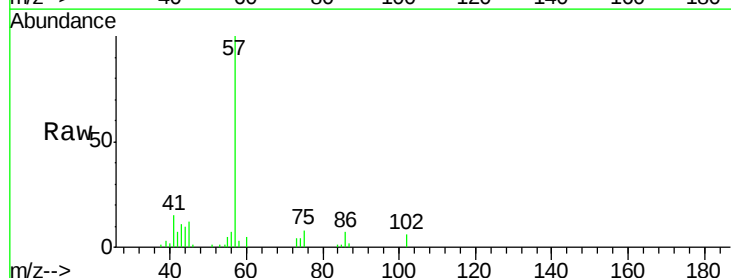
Tgt Ion: 41 Resp: 6460

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

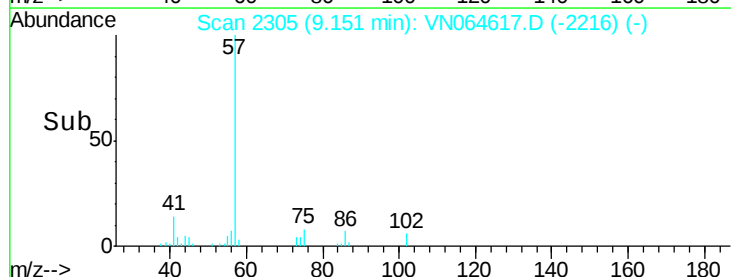
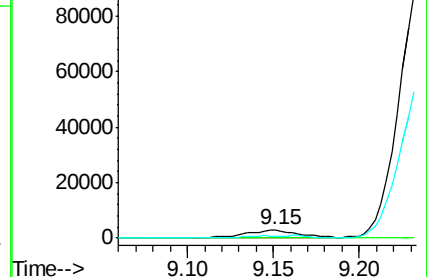
39 0.0 51.2 76.8#

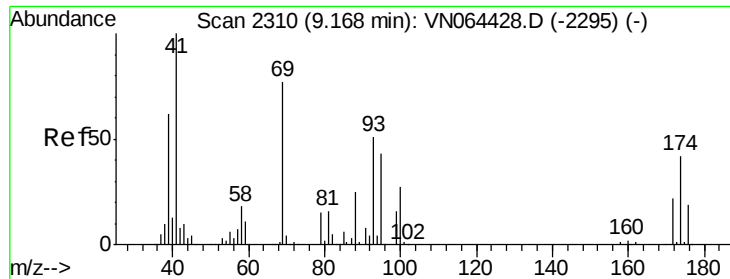


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 3.714 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

PAV-B11-110420-14-15.25

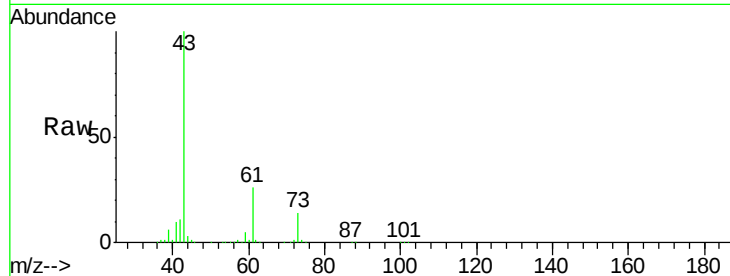
Tot Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 836047.1 31.0 46.6#

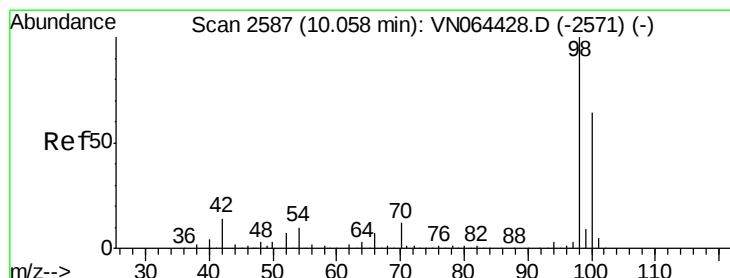
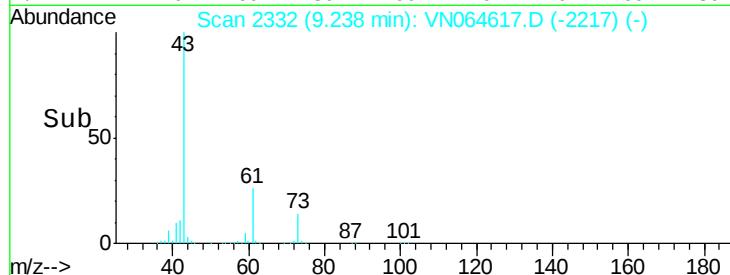
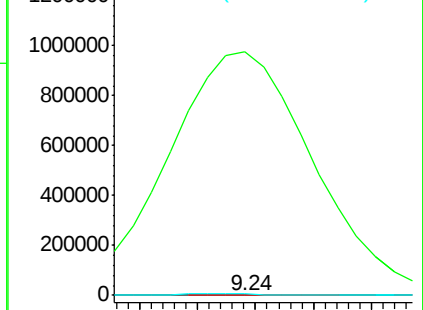
58 4646.2 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.117 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064617.D

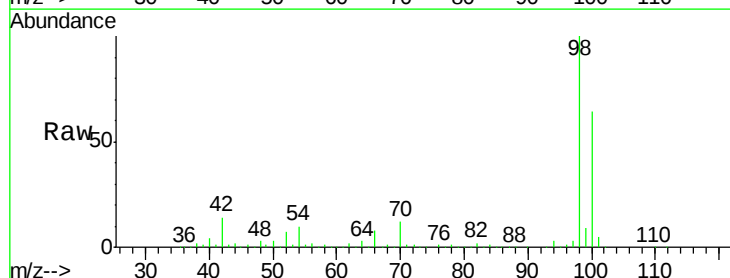
Acq: 13 Nov 2020 6:58

Tgt Ion: 98 Resp: 642246

Ion Ratio Lower Upper

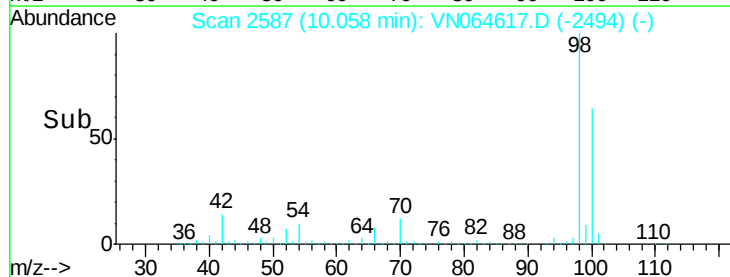
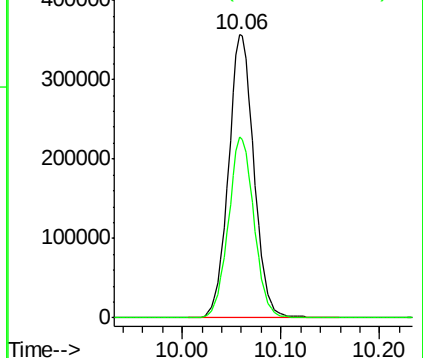
98 100

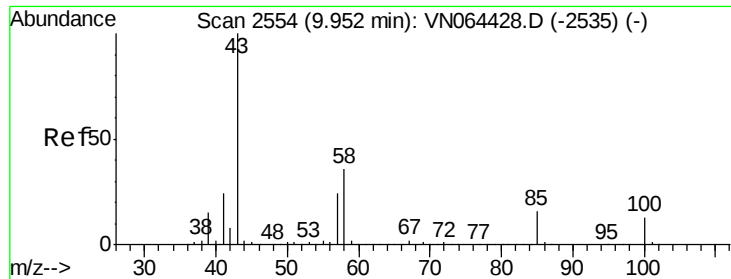
100 64.3 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.336 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

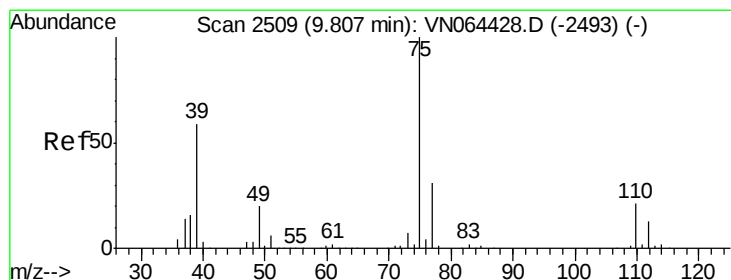
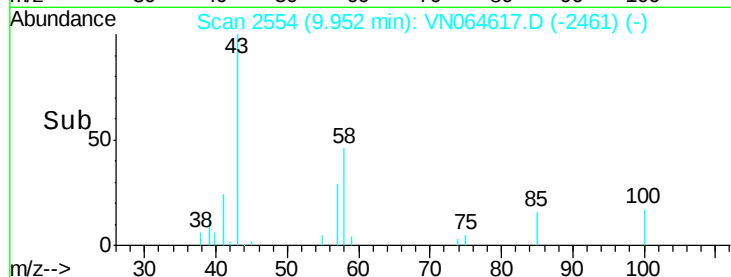
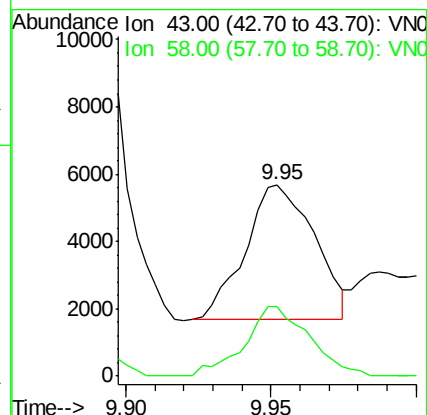
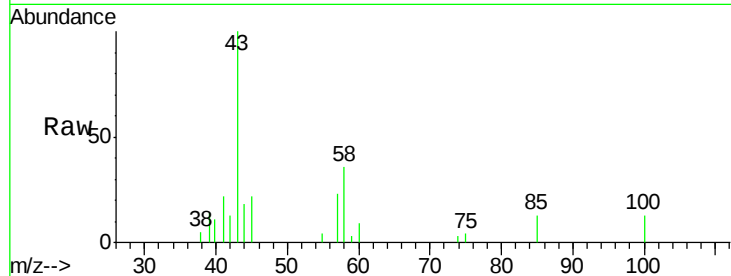
PAV-B11-110420-14-15.25

Tot Ion: 43 Resp: 6630

Ion Ratio Lower Upper

43 100

58 48.3 28.4 42.6#



#54

cis-1,3-Dichloropropene

Concen: 5.339 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

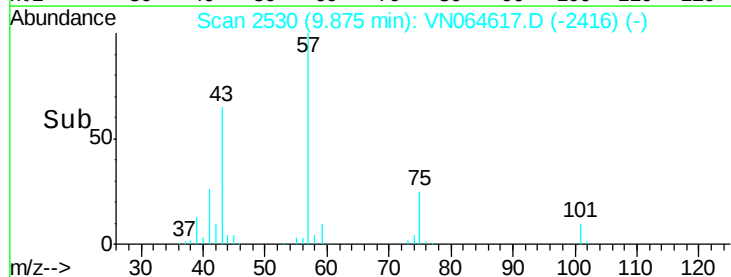
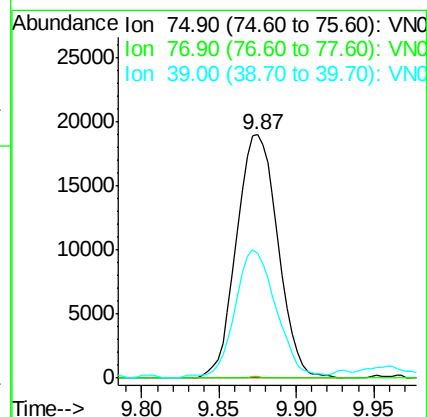
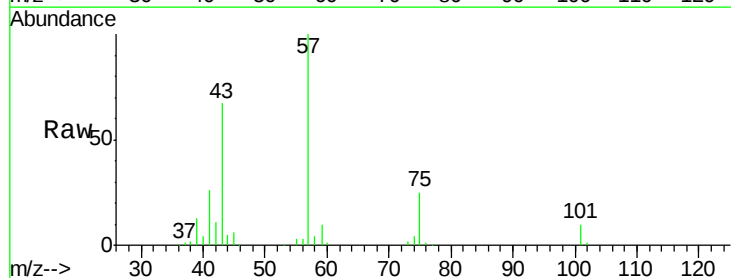
Tgt Ion: 75 Resp: 35259

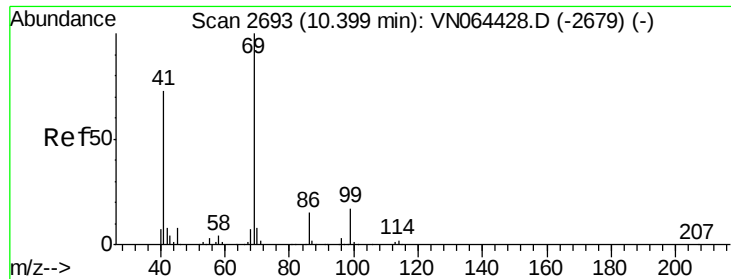
Ion Ratio Lower Upper

75 100

77 1.0 24.9 37.3#

39 49.9 47.1 70.7





#56

Ethyl methacrylate

Concen: 2.410 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

PAV-B11-110420-14-15.25

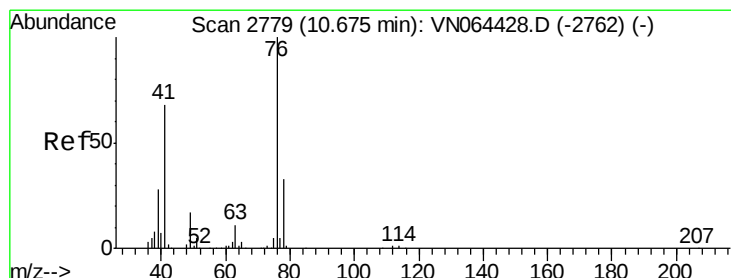
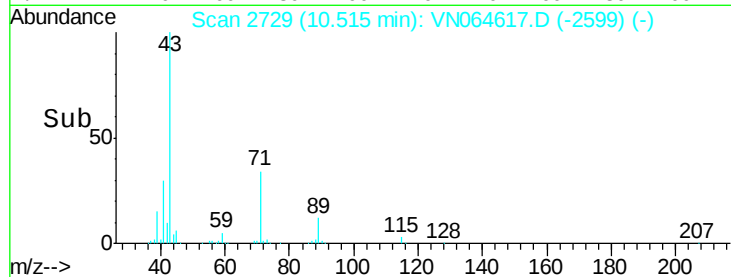
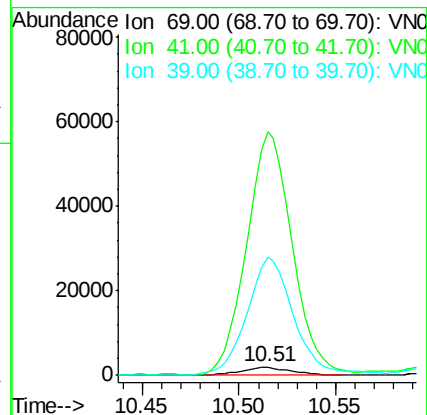
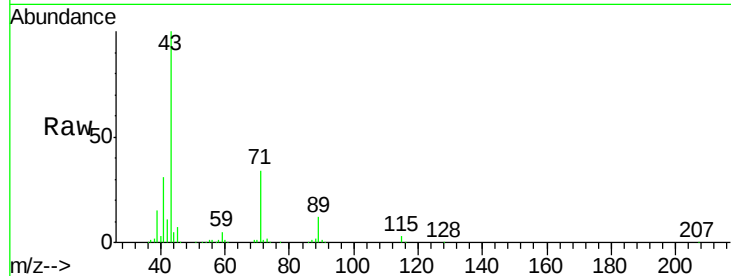
Tot Ion: 69 Resp: 3568

Ion Ratio Lower Upper

69 100

41 2636.8 59.3 88.9#

39 1327.0 35.4 53.0#



#57

1,3-Dichloropropane

Concen: 0.962 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064617.D

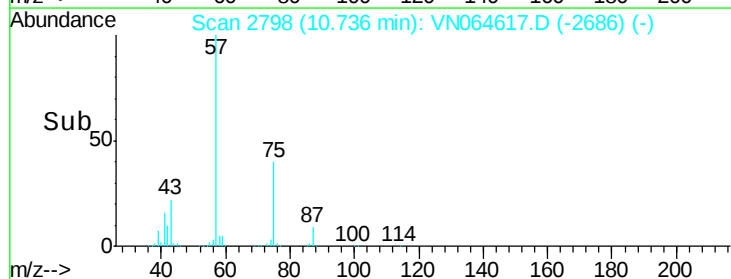
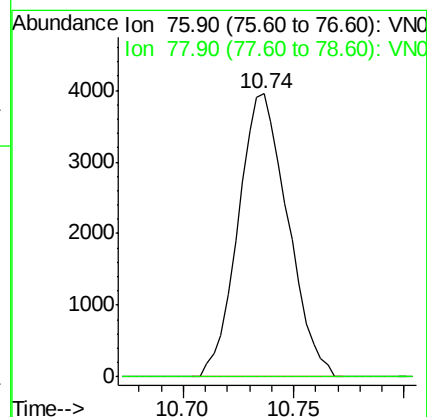
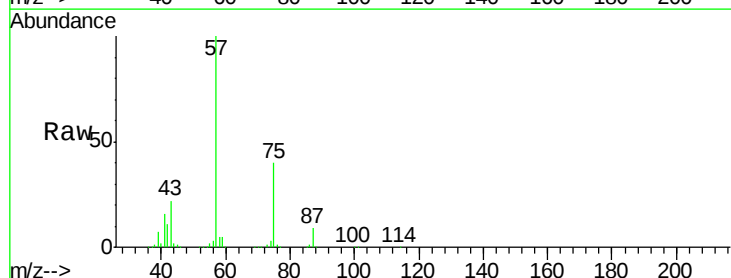
Acq: 13 Nov 2020 6:58

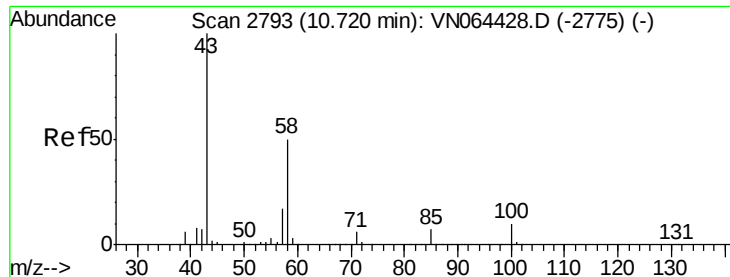
Tgt Ion: 76 Resp: 6160

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

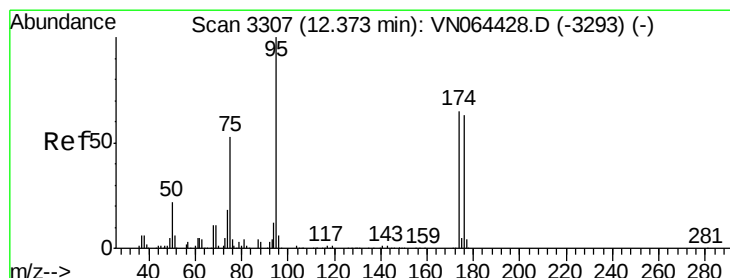
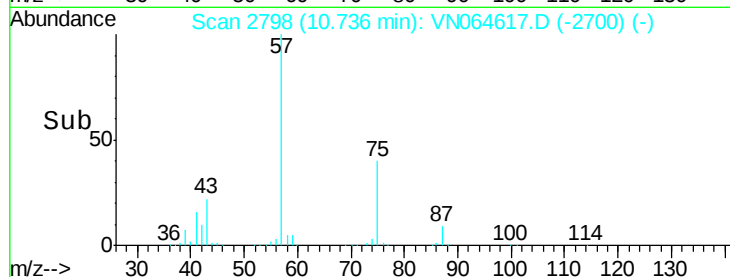
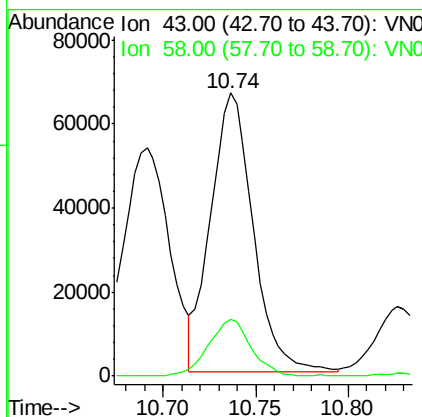
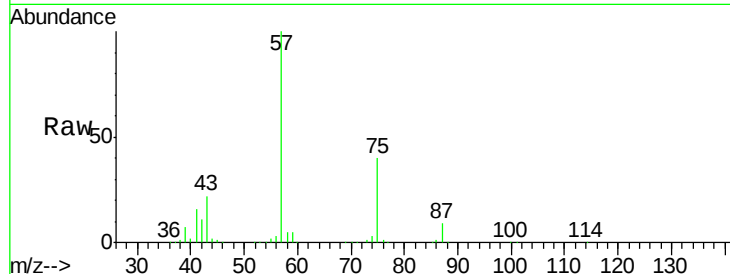




#59
2-Hexanone
Concen: 29.606 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

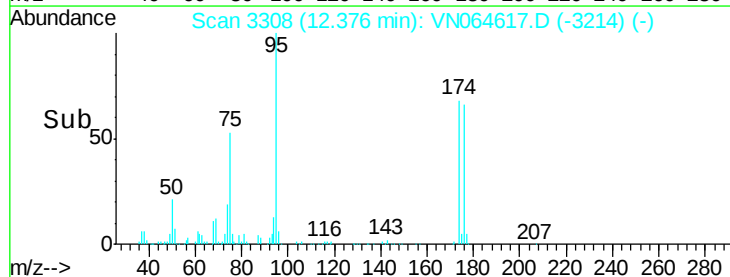
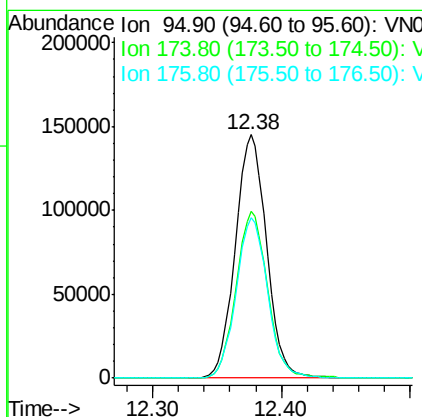
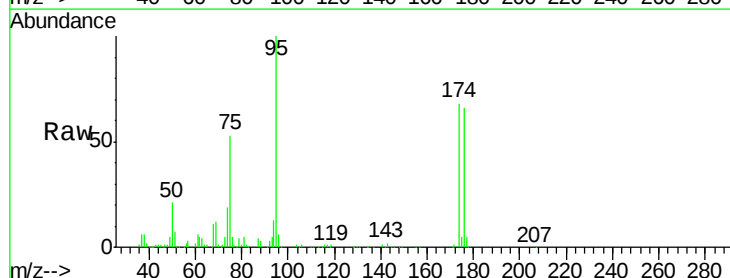
Instrument :
MSVOA_N
ClientSampleId :
PAV-B11-110420-14-15.25

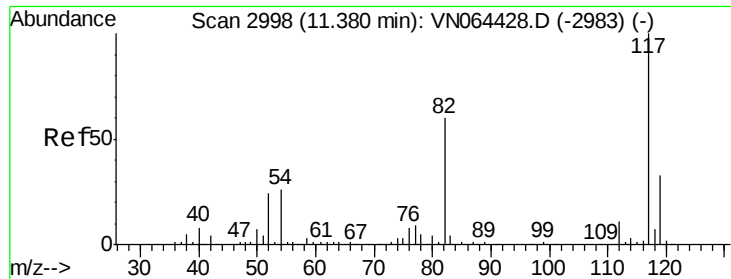
Tot Ion: 43 Resp: 105165
Ion Ratio Lower Upper
43 100
58 20.4 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.452 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Tgt Ion: 95 Resp: 244544
Ion Ratio Lower Upper
95 100
174 68.9 0.0 132.6
176 66.2 0.0 129.2

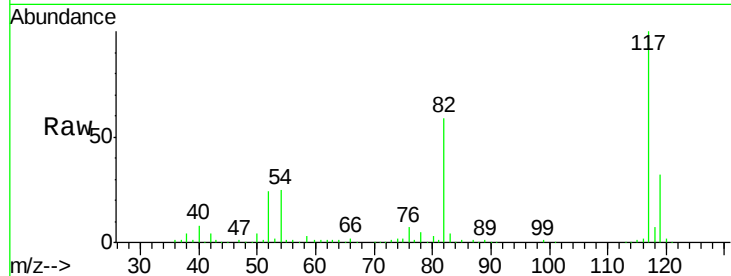




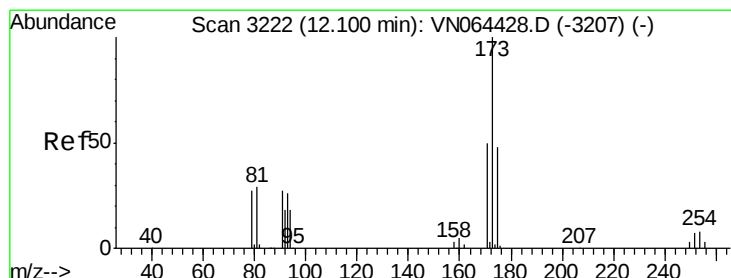
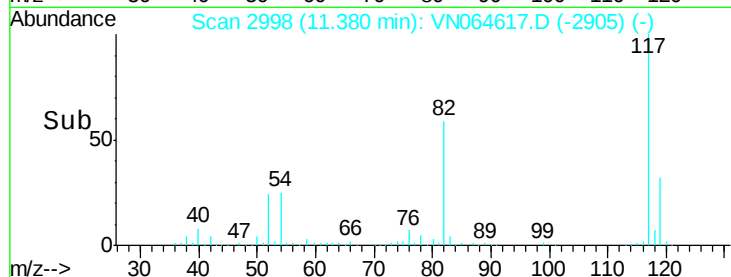
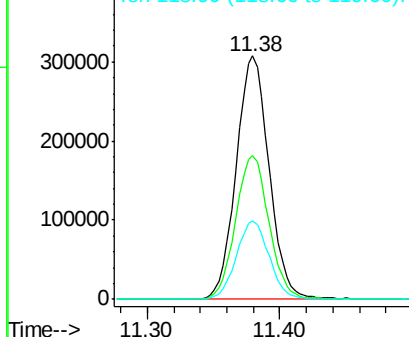
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Instrument :
MSVOA_N
ClientSampleId :
PAV-B11-110420-14-15.25

Tot Ion:117 Resp: 529370
Ion Ratio Lower Upper
117 100
82 58.8 48.1 72.1
119 32.4 26.2 39.4

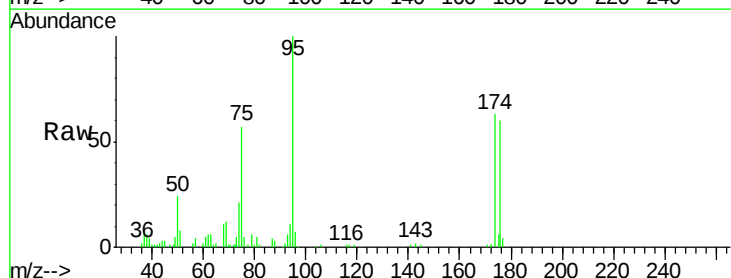


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

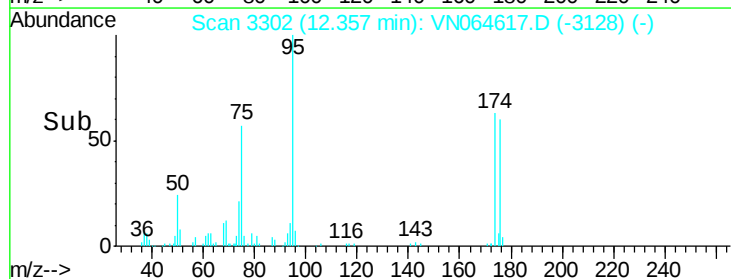
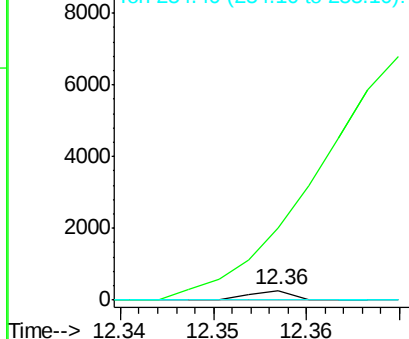


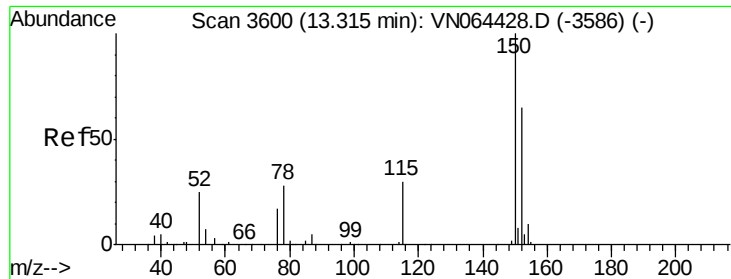
#71
Bromoform
Concen: 1.299 ug/l
RT: 12.36 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN064617.D
Acq: 13 Nov 2020 6:58

Tgt Ion:173 Resp: 80
Ion Ratio Lower Upper
173 100
175 13773.8 23.7 71.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Instrument :

MSVOA_N

ClientSampleId :

PAV-B11-110420-14-15.25

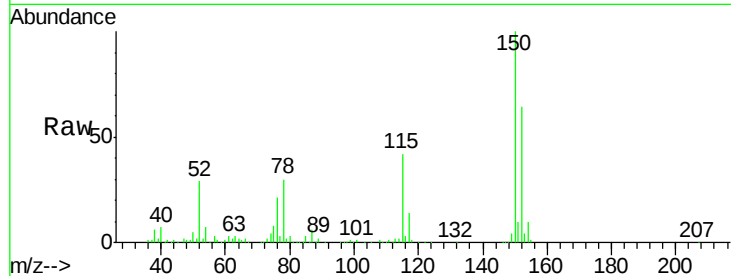
Tot Ion:152 Resp: 188498

Ion Ratio Lower Upper

152 100

115 67.6 32.0 96.0

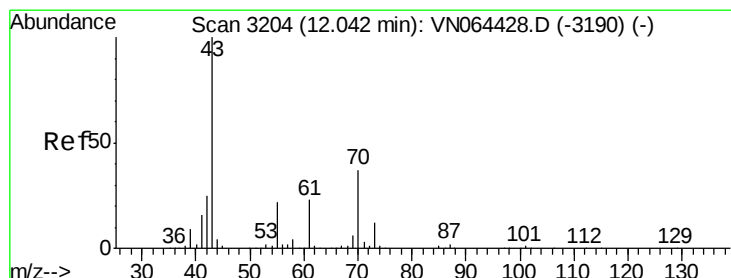
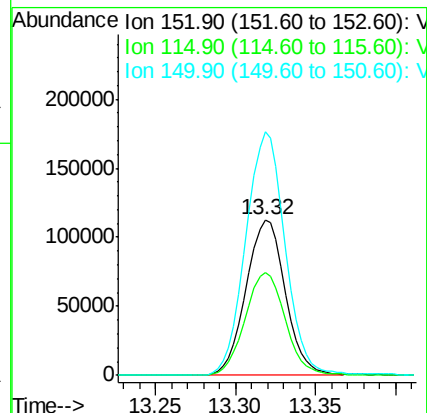
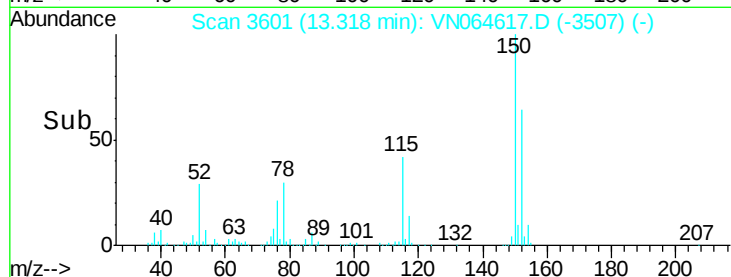
150 158.1 0.0 353.8



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-ethyl acetate

Concen: 1.614 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064617.D

Acq: 13 Nov 2020 6:58

Tgt Ion: 43 Resp: 2978

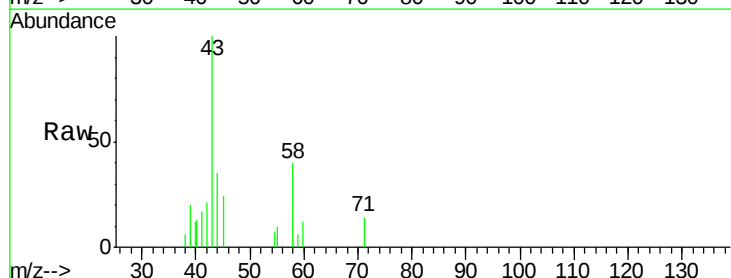
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 12.0 18.4 27.6#

61 0.0 17.8 26.6#

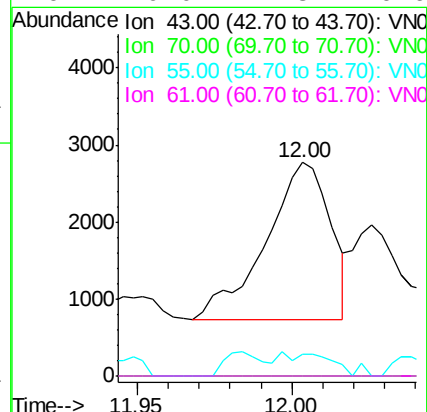
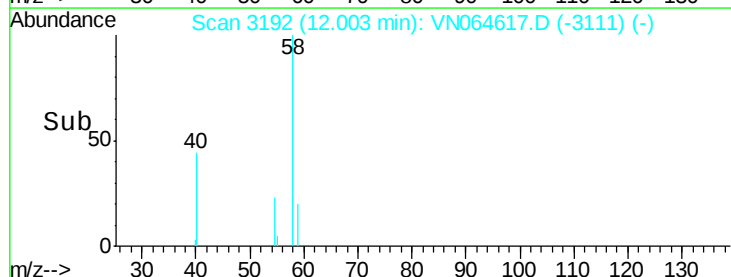


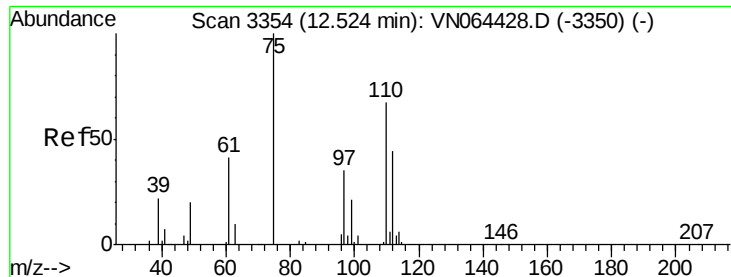
Abundance Ion 43.00 (42.70 to 43.70): V

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

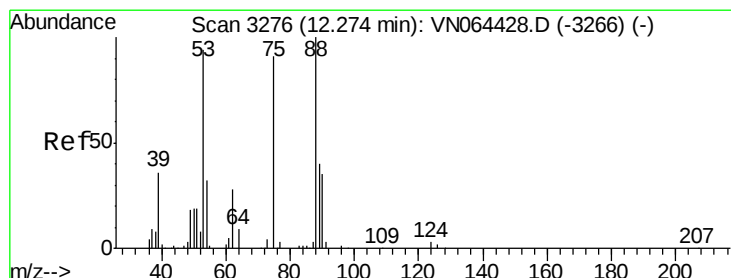
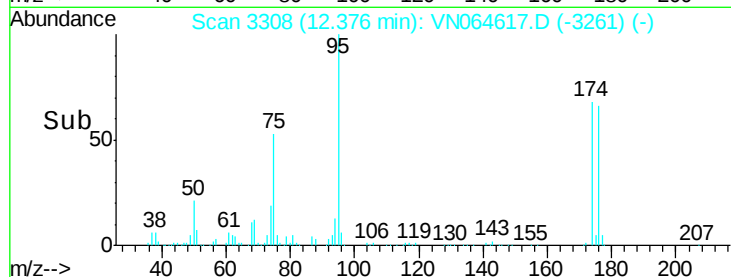
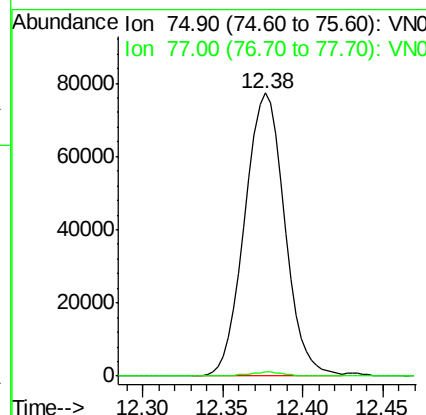
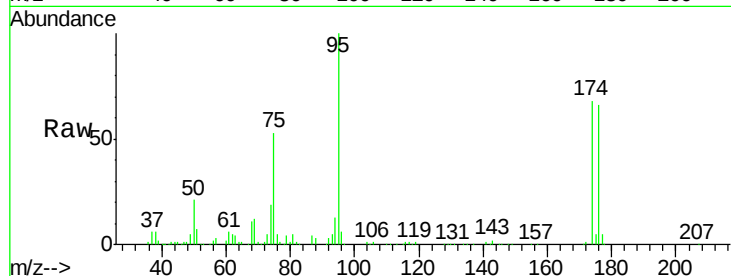




#76
 1,2,3-Trichloropropane
 Concen: 28.967 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064617.D
 Acq: 13 Nov 2020 6:58

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B11-110420-14-15.25

Tot Ion: 75 Resp: 132298
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.880 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064617.D
 Acq: 13 Nov 2020 6:58

Tgt Ion: 75 Resp: 132298
 Ion Ratio Lower Upper
 75 100
 53 0.3 84.0 126.0#
 89 0.0 36.3 54.5#

