

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063801.D
 Acq On : 2 Oct 2020 4:08
 Operator : JC/MD
 Sample : L4190-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B18-092920-0-1

Quant Time: Oct 02 05:46:49 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	209547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	395998	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	409497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170129	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	189430	54.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.44%	
35) Dibromofluoromethane	7.55	113	135096	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
50) Toluene-d8	10.06	98	512583	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.38	95	203173	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	

Target Compounds

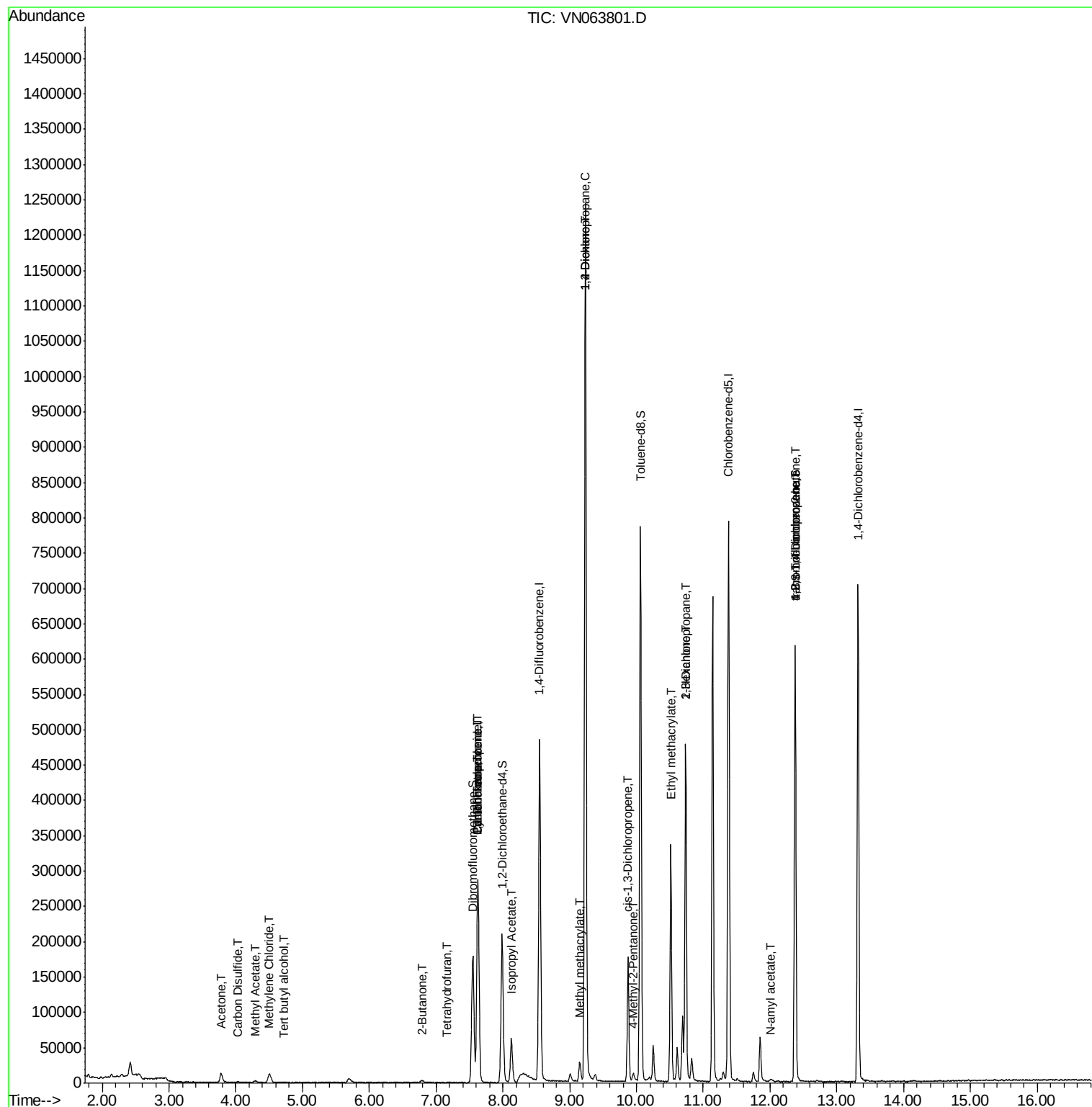
						Qvalue
11) Tert butyl alcohol	4.73	59	232	0.607	ug/l #	71
16) Acetone	3.78	43	22935	21.522	ug/l	96
17) Carbon Disulfide	4.01	76	402	0.770	ug/l #	76
18) Methyl Acetate	4.29	43	2567	0.928	ug/l #	81
20) Methylene Chloride	4.51	84	9047	3.797	ug/l	97
25) 2-Butanone	6.79	43	2387	1.580	ug/l #	51
29) Tetrahydrofuran	7.16	42	329	0.325	ug/l #	43
31) Cyclohexane	7.63	56	6226	1.549	ug/l #	42
36) 1,1-Dichloropropene	7.62	75	19293	4.809	ug/l #	52
38) Carbon Tetrachloride	7.62	117	23838	5.299	ug/l #	14
43) Isopropyl Acetate	8.13	43	74854	11.386	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1307	0.422	ug/l #	44
48) Methyl methacrylate	9.14	41	3955	1.218	ug/l #	12
49) 1,4-Dioxane	9.23	88	31	0.672	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	6857	1.777	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	28369	5.751	ug/l #	71
56) Ethyl methacrylate	10.51	69	1440	0.357	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4394	0.914	ug/l #	43
59) 2-Hexanone	10.74	43	76663	26.748	ug/l #	52
74) N-amyl acetate	12.01	43	2884	2.694	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	116551	31.078	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116551	89.509	ug/l #	6

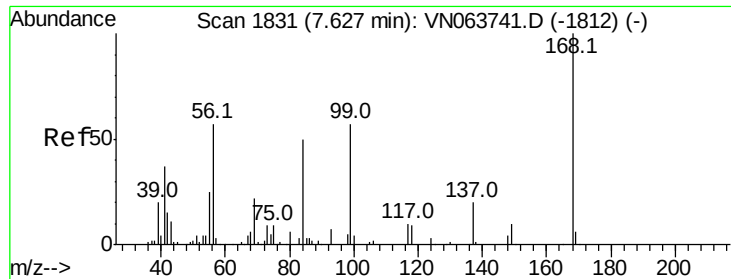
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

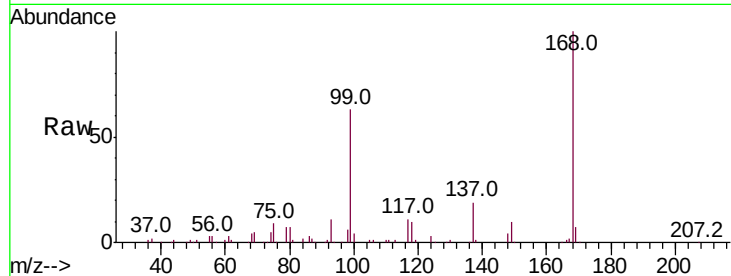
PAV-B18-092920-0-1

Tot Ion:168 Resp: 209547

Ion Ratio Lower Upper

168 100

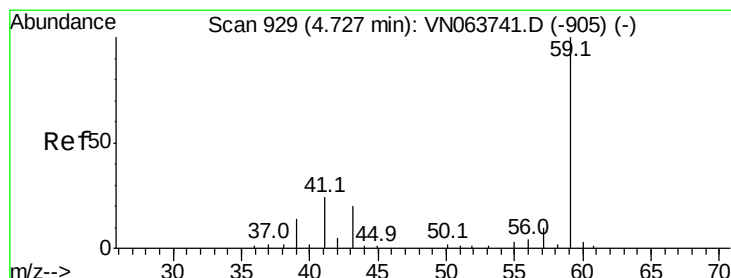
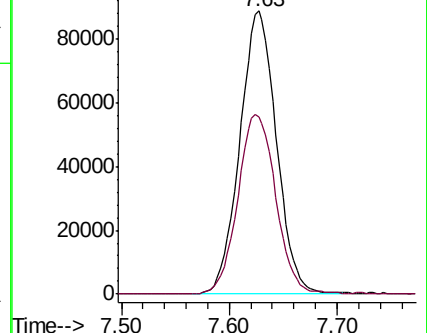
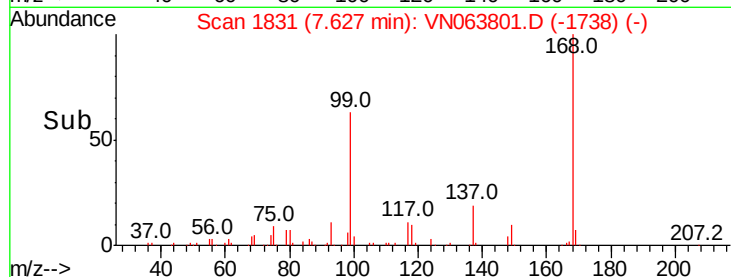
99 62.6 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63



#11

Tert butyl alcohol

Concen: 0.607 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN063801.D

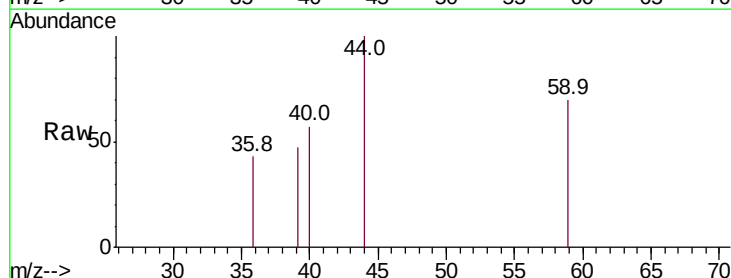
Acq: 2 Oct 2020 4:08

Tgt Ion: 59 Resp: 232

Ion Ratio Lower Upper

59 100

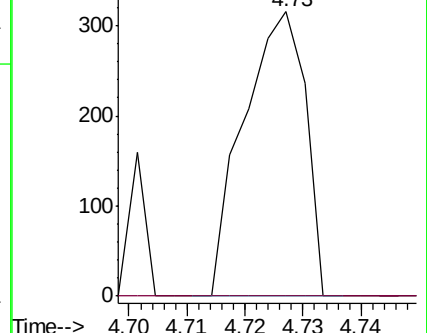
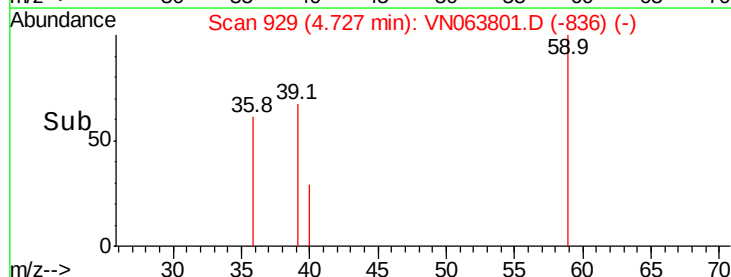
57 0.0 8.7 13.1#

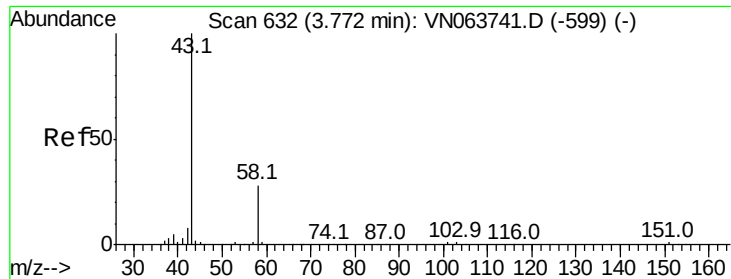


Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73





#16

Acetone

Concen: 21.522 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

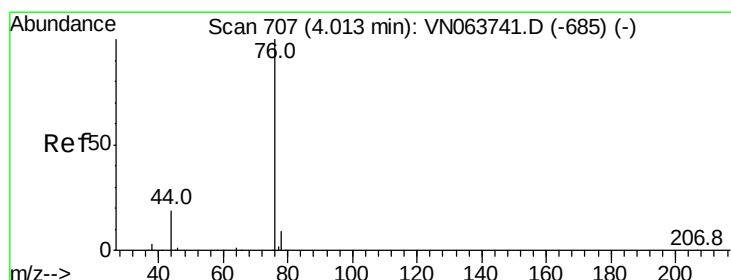
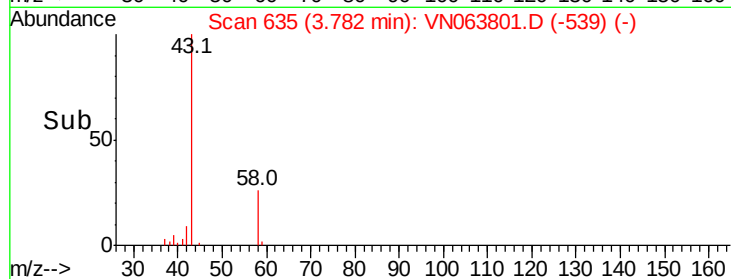
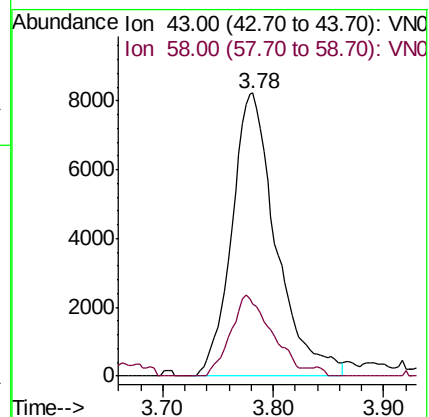
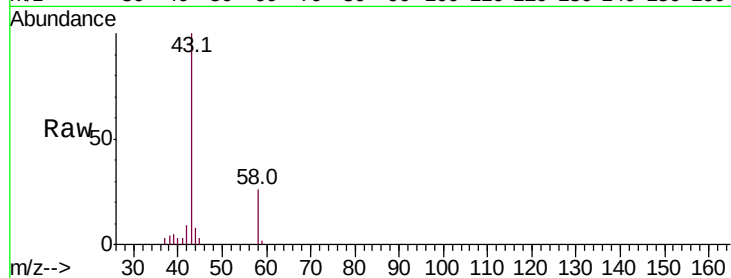
PAV-B18-092920-0-1

Tot Ion: 43 Resp: 22935

Ion Ratio Lower Upper

43 100

58 25.7 22.3 33.5



#17

Carbon Disulfide

Concen: 0.770 ug/l

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063801.D

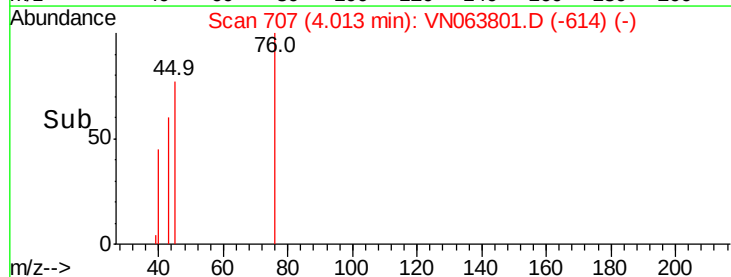
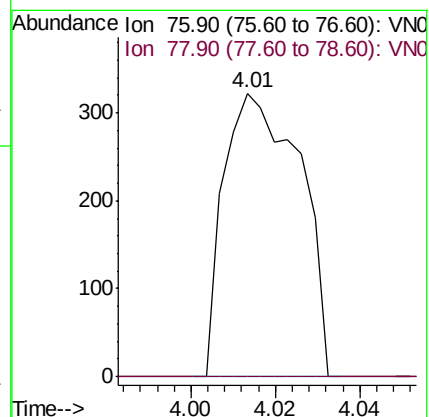
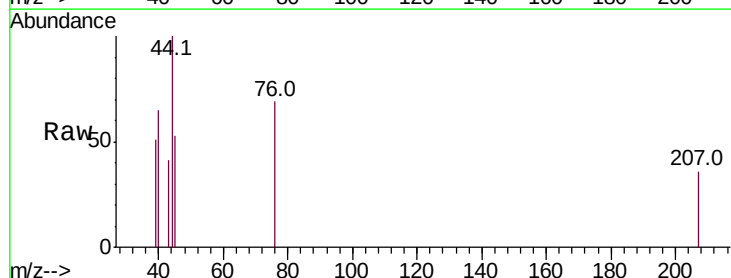
Acq: 2 Oct 2020 4:08

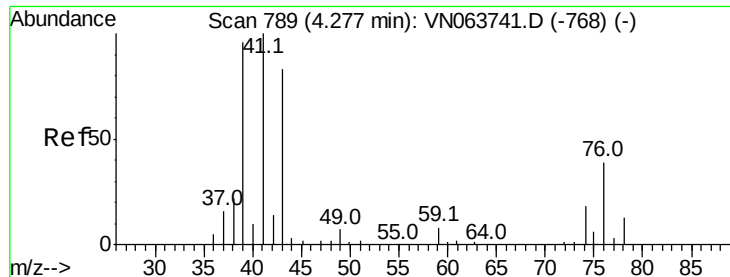
Tgt Ion: 76 Resp: 402

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

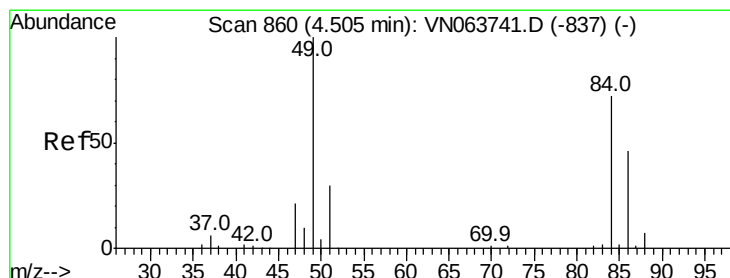
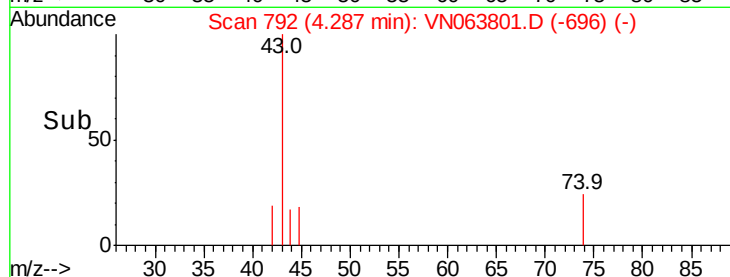
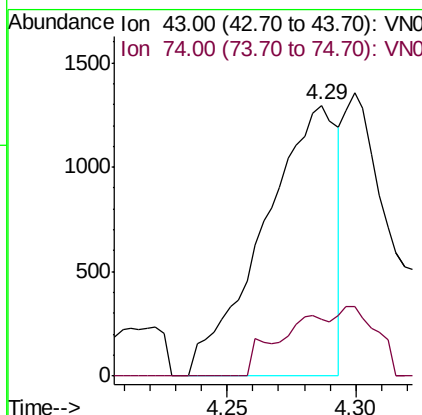
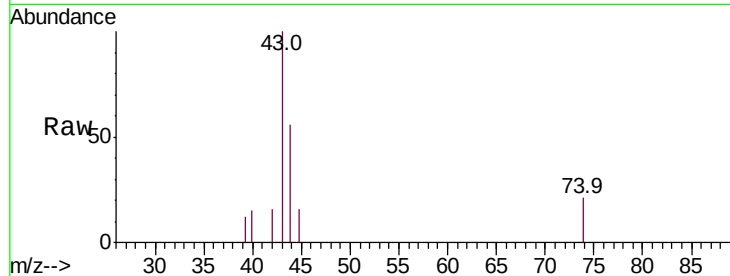




#18
Methyl Acetate
Concen: 0.928 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

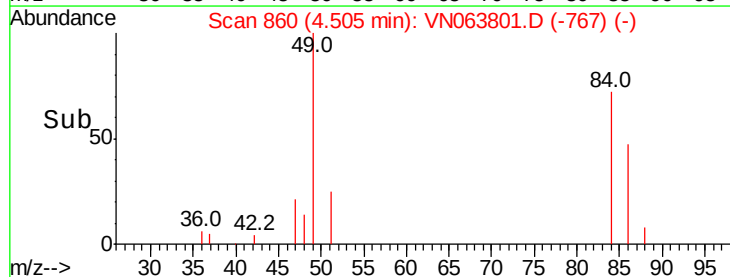
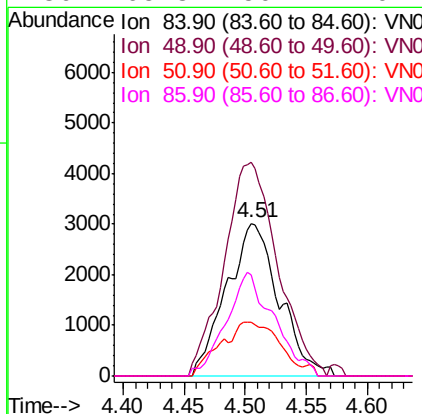
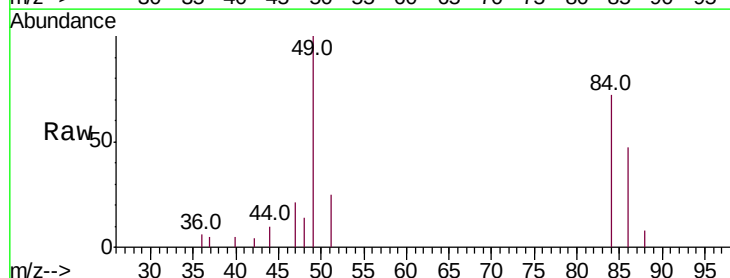
Instrument :
MSVOA_N
ClientSampleId :
PAV-B18-092920-0-1

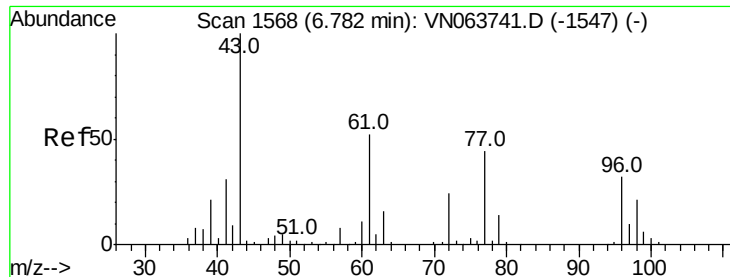
Tot Ion: 43 Resp: 2567
Ion Ratio Lower Upper
43 100
74 12.8 17.4 26.2#



#20
Methylene Chloride
Concen: 3.797 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

Tgt Ion: 84 Resp: 9047
Ion Ratio Lower Upper
84 100
49 139.7 110.4 165.6
51 35.0 33.3 49.9
86 65.8 50.7 76.1





#25

2-Butanone

Concen: 1.580 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

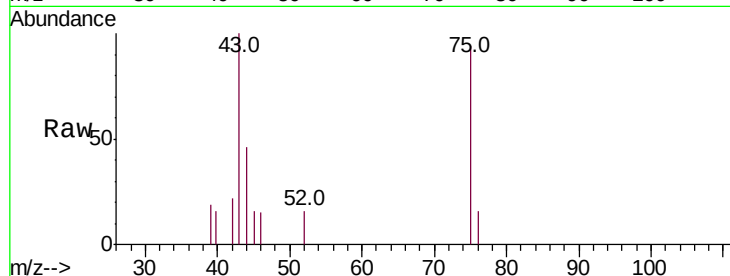
PAV-B18-092920-0-1

Tot Ion: 43 Resp: 2387

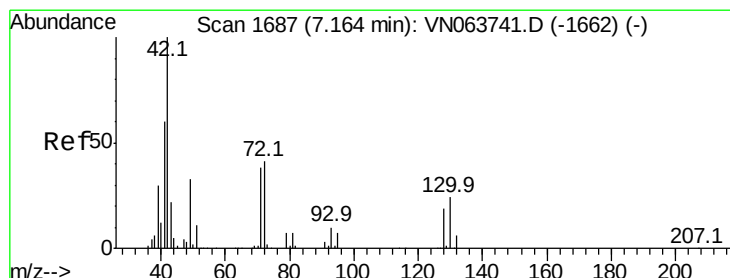
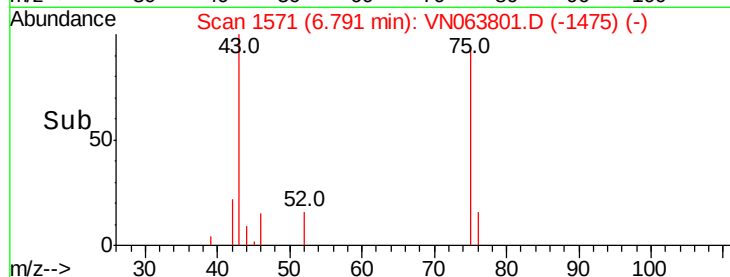
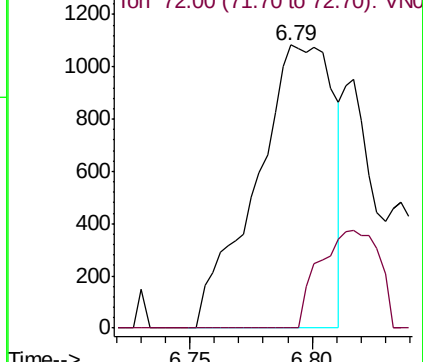
Ion Ratio Lower Upper

43 100

72 0.0 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN063801.D (-1547) (-)



#29

Tetrahydrofuran

Concen: 0.325 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

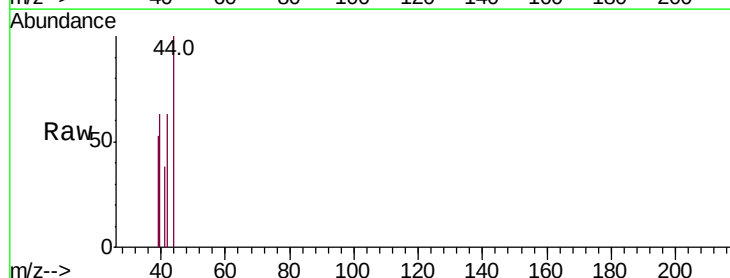
Tgt Ion: 42 Resp: 329

Ion Ratio Lower Upper

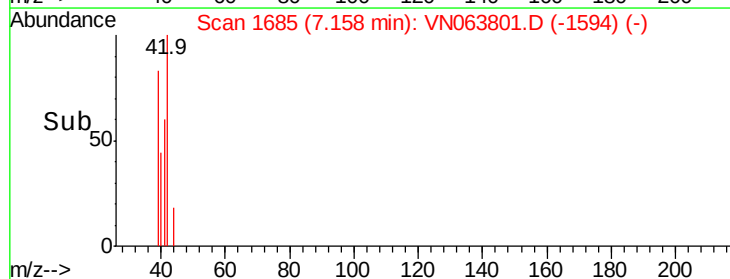
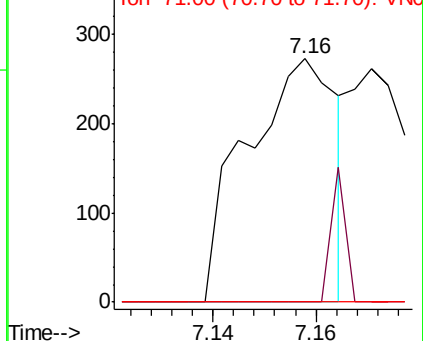
42 100

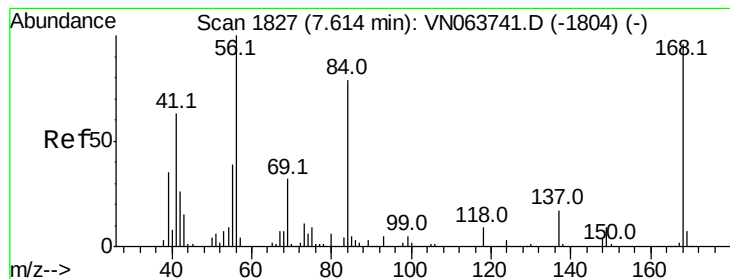
72 8.8 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN063801.D (-1594) (-)





#31

Cyclohexane

Concen: 1.549 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

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ClientSampleId :

PAV-B18-092920-0-1

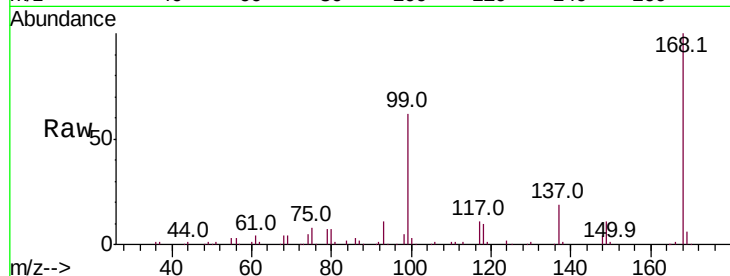
Tot Ion: 56 Resp: 6226

Ion Ratio Lower Upper

56 100

69 129.6 25.4 38.2#

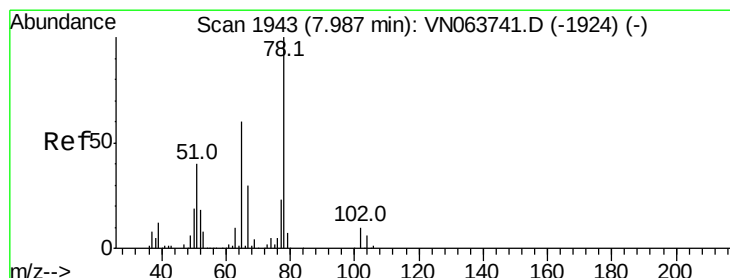
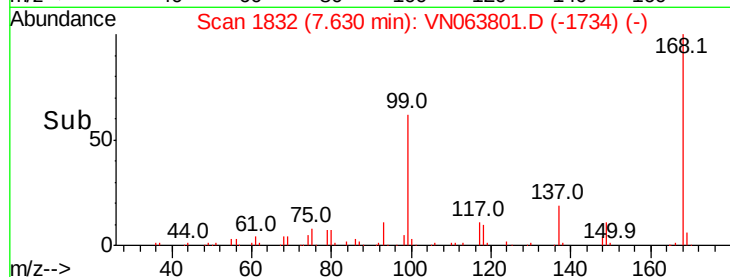
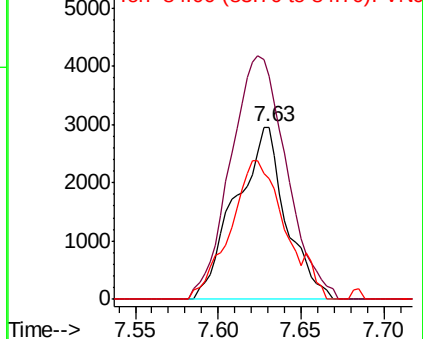
84 69.9 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.719 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063801.D

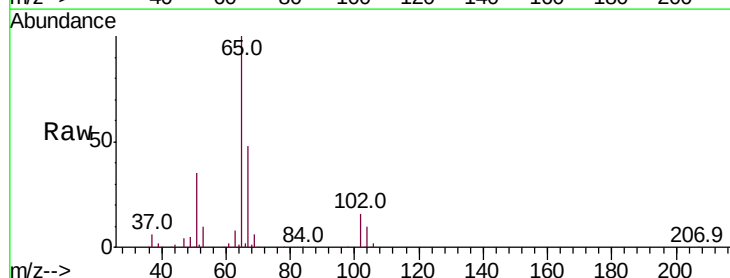
Acq: 2 Oct 2020 4:08

Tgt Ion: 65 Resp: 189430

Ion Ratio Lower Upper

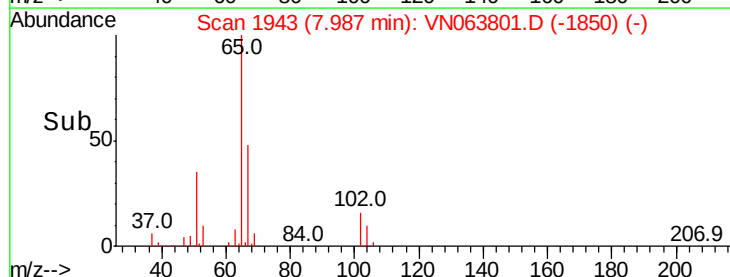
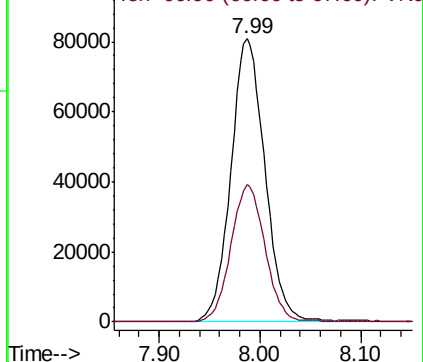
65 100

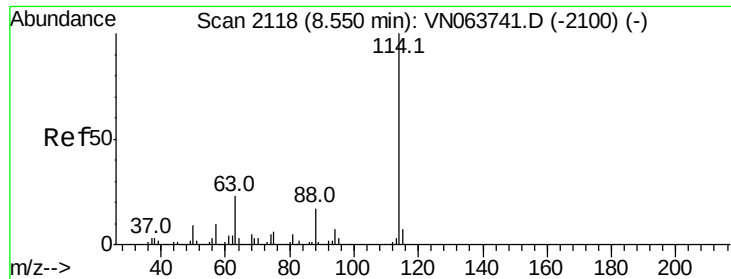
67 48.3 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

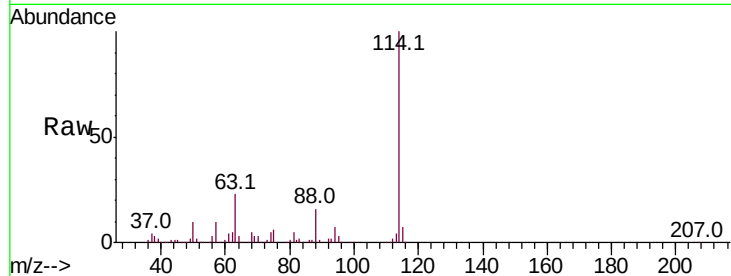




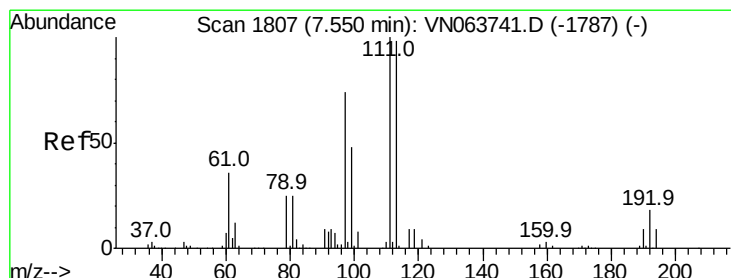
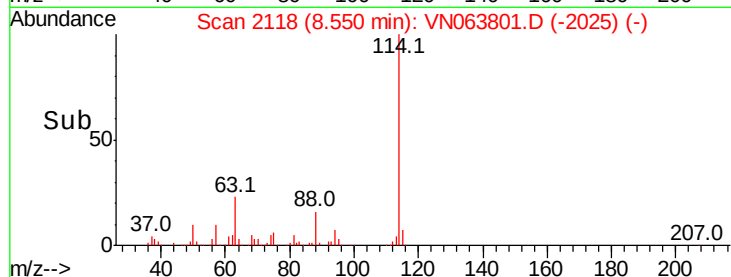
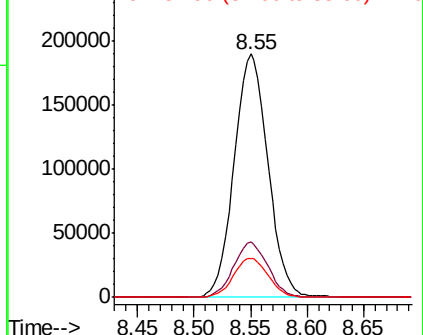
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

Instrument :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	45.0
88	16.2	0.0	34.0

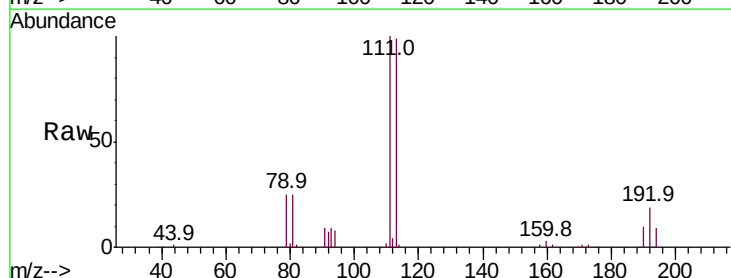


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

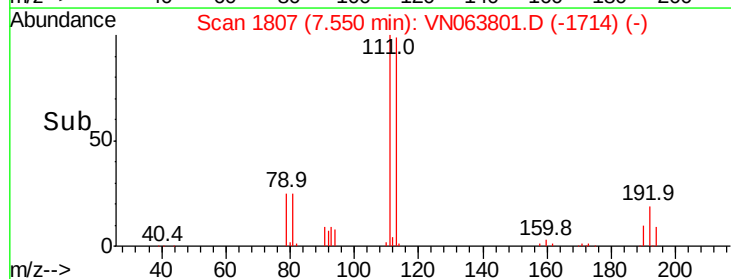
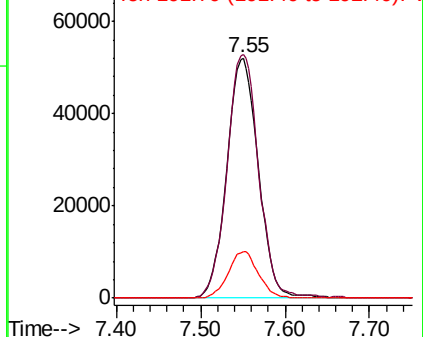


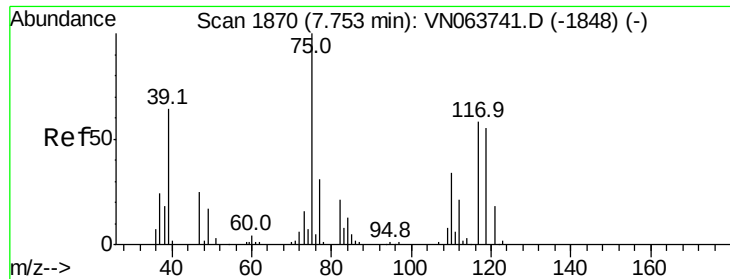
#35
Dibromofluoromethane
Concen: 49.166 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.8
192	18.5	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: 4.809 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-0-1

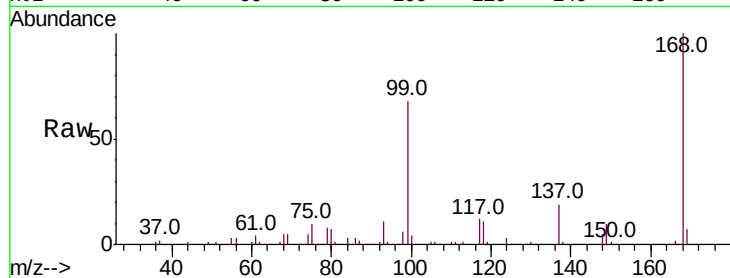
Tot Ion: 75 Resp: 19293

Ion Ratio Lower Upper

75 100

110 9.9 16.9 50.6#

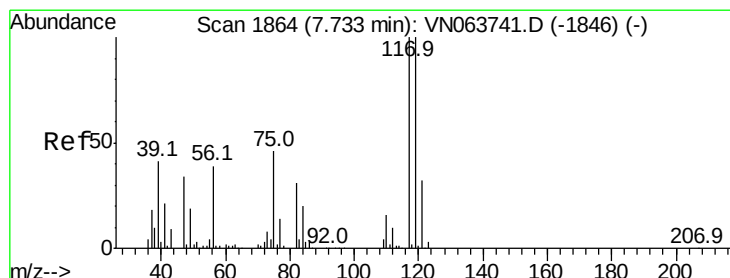
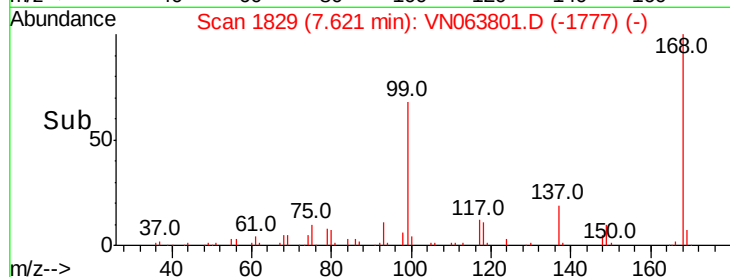
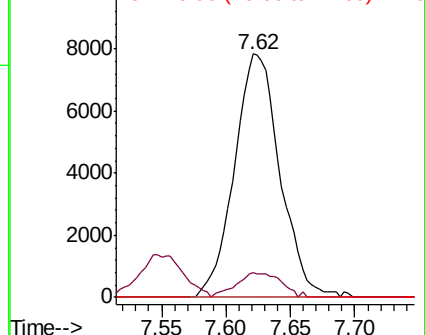
77 0.0 24.5 36.7#



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: 5.299 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

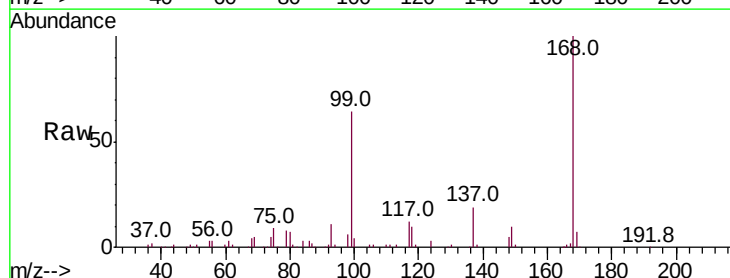
Tgt Ion: 117 Resp: 23838

Ion Ratio Lower Upper

117 100

119 5.2 80.1 120.1#

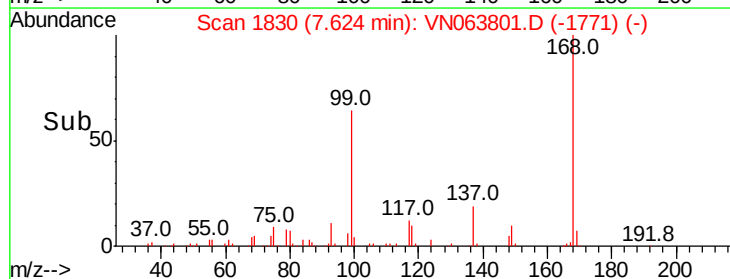
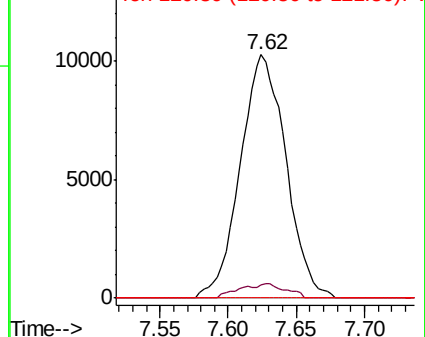
121 0.0 25.7 38.5#

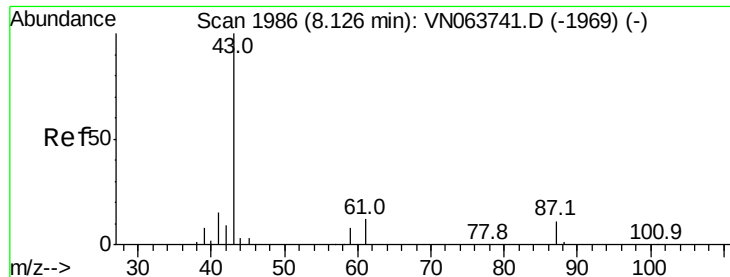


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 11.386 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-0-1

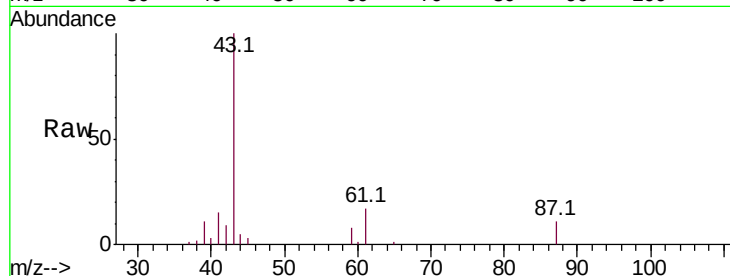
Tot Ion: 43 Resp: 74854

Ion Ratio Lower Upper

43 100

61 16.7 14.2 21.4

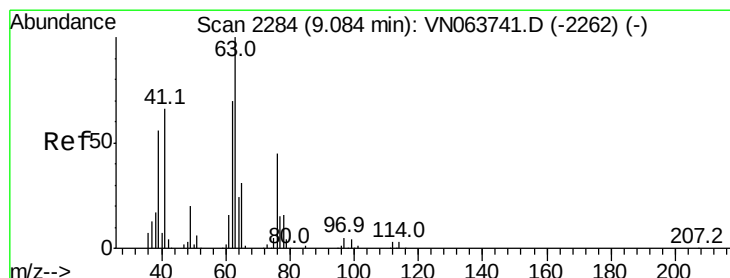
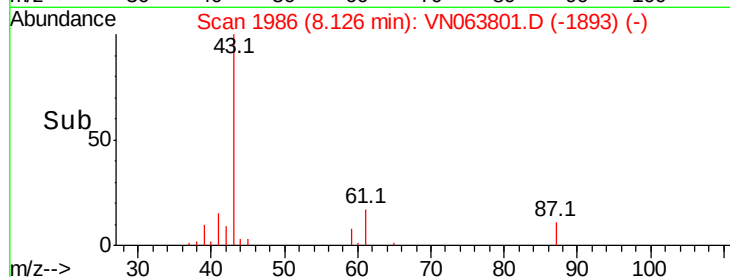
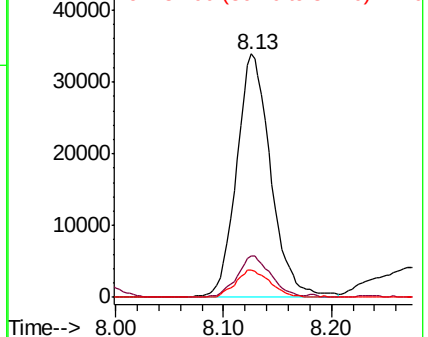
87 11.1 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.422 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063801.D

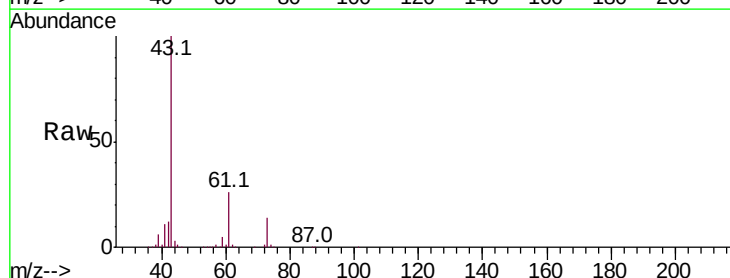
Acq: 2 Oct 2020 4:08

Tgt Ion: 63 Resp: 1307

Ion Ratio Lower Upper

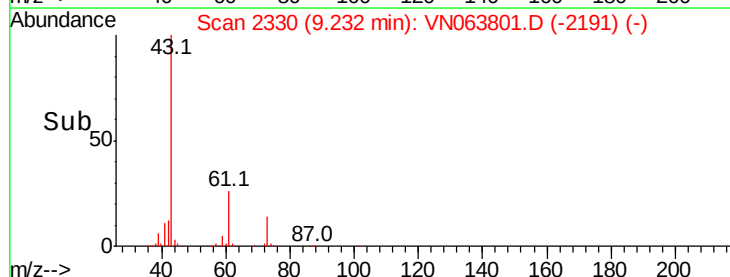
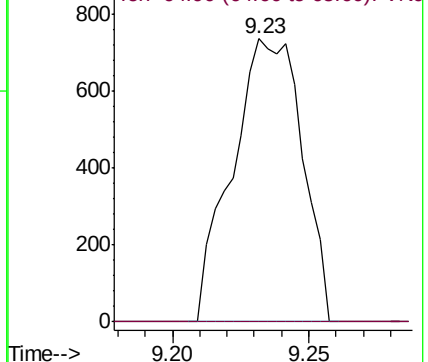
63 100

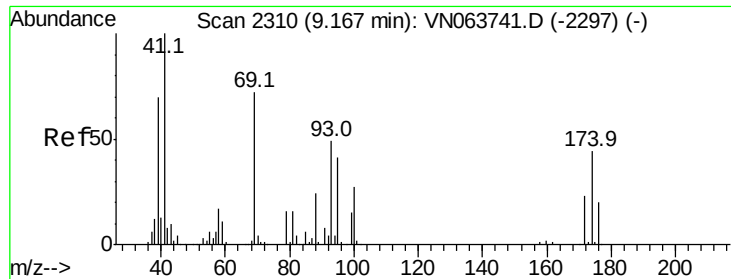
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

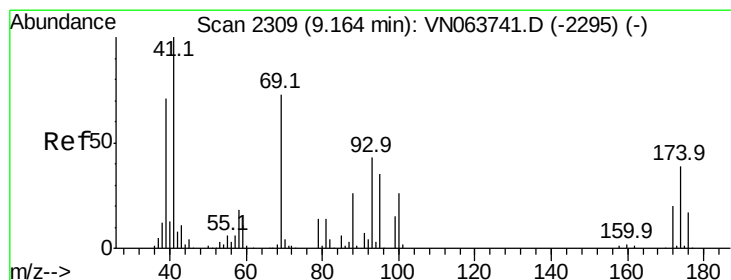
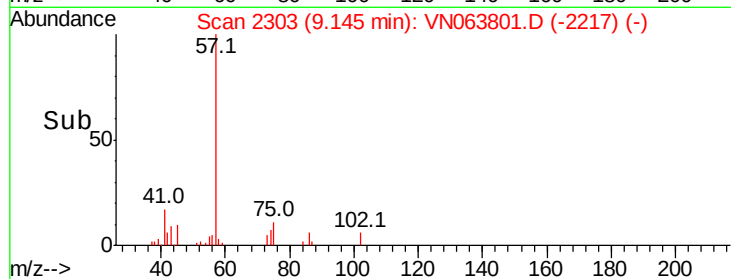
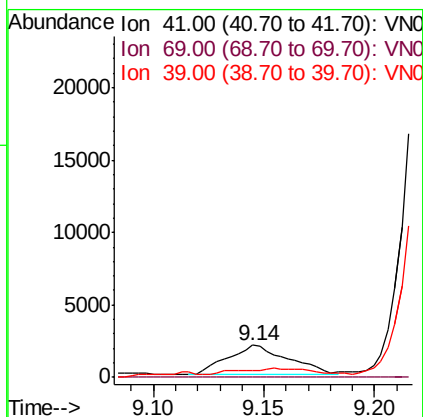
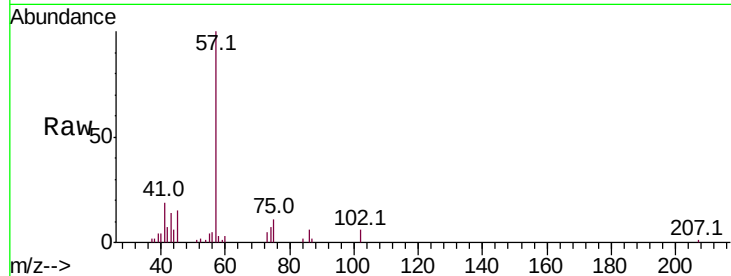




#48
Methvl methacrylate
Concen: 1.218 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

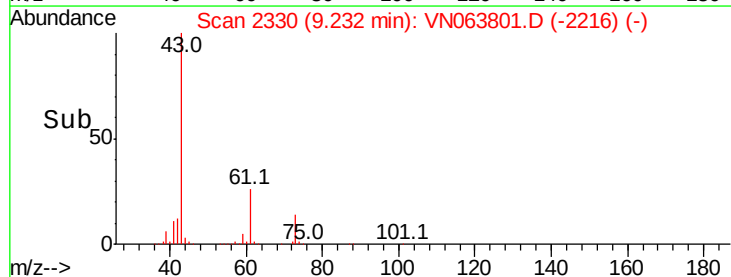
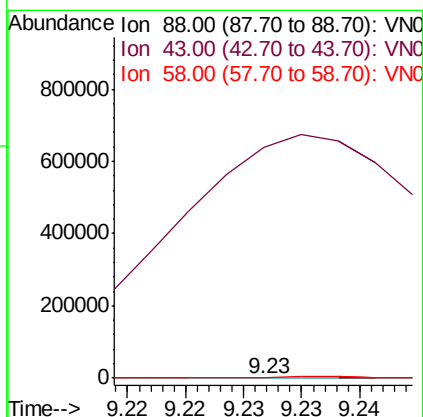
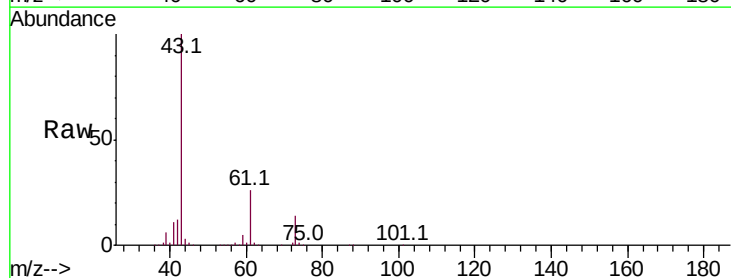
Instrument :
MSVOA_N
ClientSampleId :
PAV-B18-092920-0-1

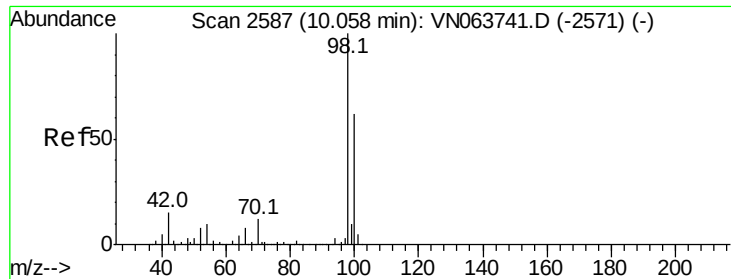
Tot Ion: 41 Resp: 3955
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 57.5 86.3#



#49
1,4-Dioxane
Concen: 0.672 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 3974461.3 33.1 49.7#
58 19932.3 58.9 88.3#

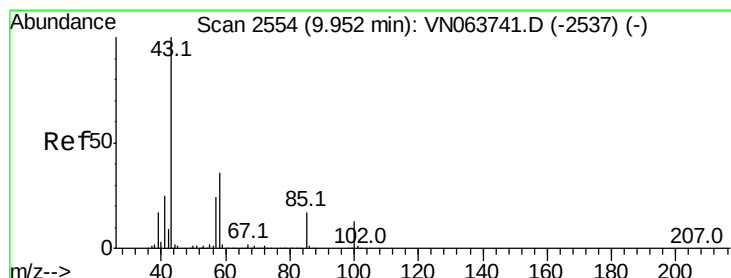
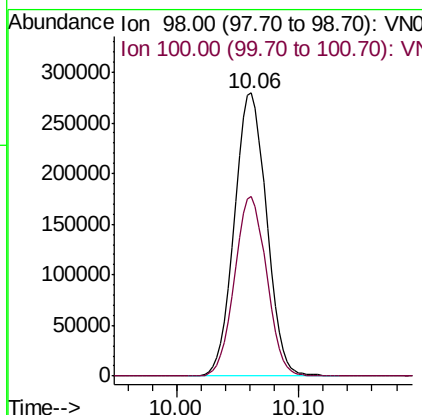
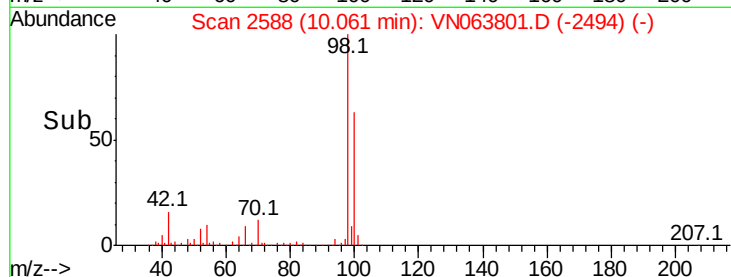
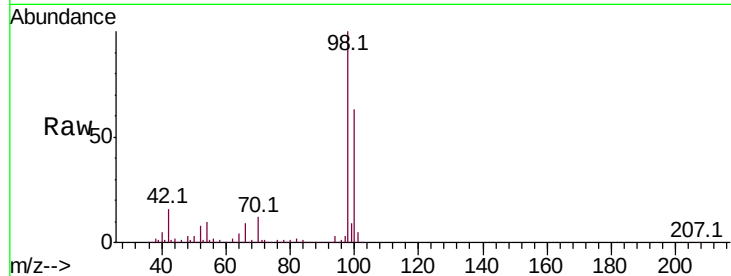




#50
Toluene-d8
Concen: 49.209 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

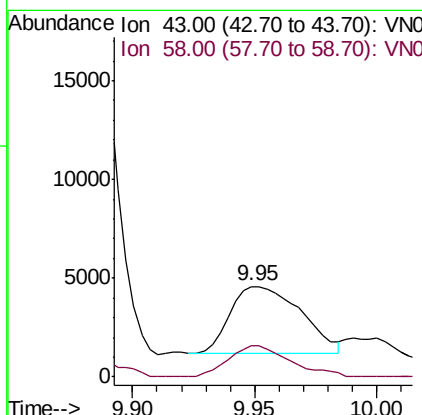
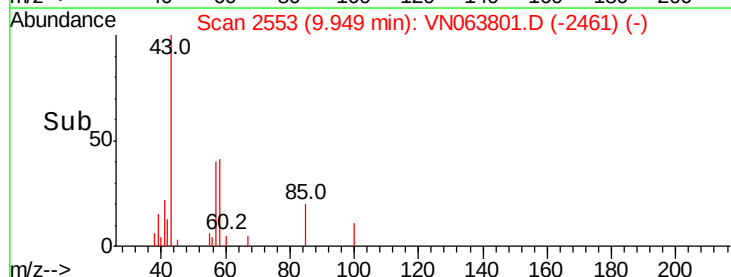
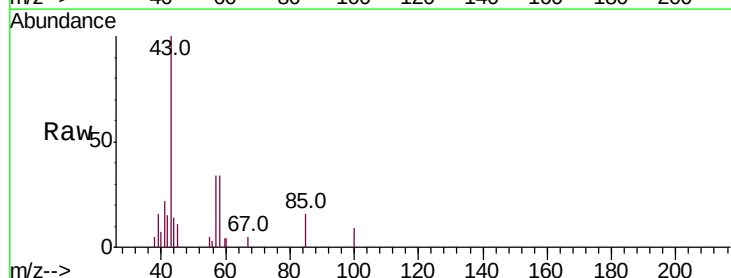
Instrument :
MSVOA_N
ClientSampleId :
PAV-B18-092920-0-1

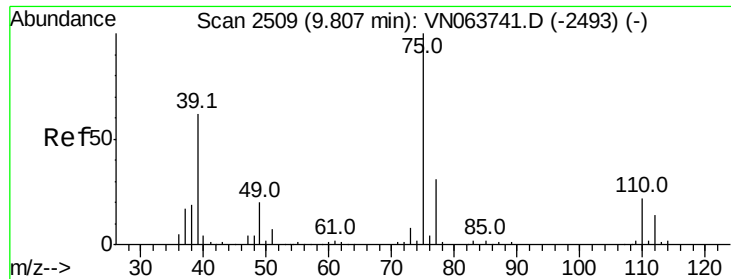
Tot Ion: 98 Resp: 512583
Ion Ratio Lower Upper
98 100
100 63.0 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 1.777 ug/l
RT: 9.95 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN063801.D
Acq: 2 Oct 2020 4:08

Tgt Ion: 43 Resp: 6857
Ion Ratio Lower Upper
43 100
58 40.4 28.4 42.6





#54

cis-1,3-Dichloropropene

Concen: 5.751 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-0-1

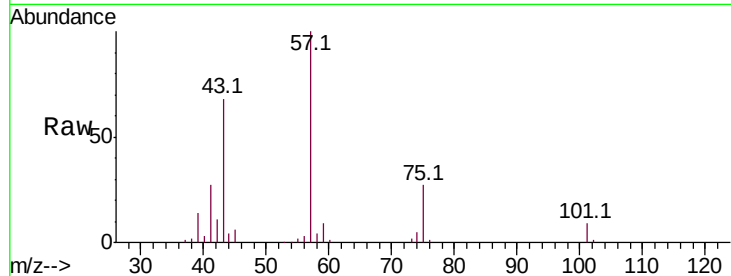
Tot Ion: 75 Resp: 28369

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

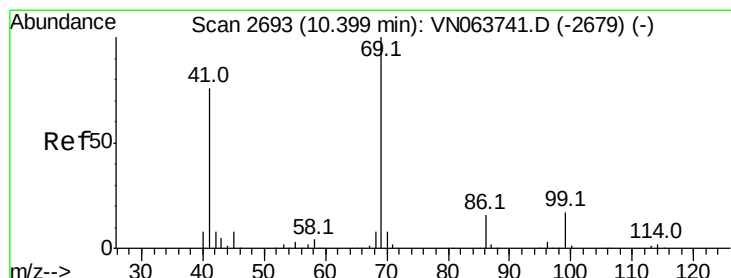
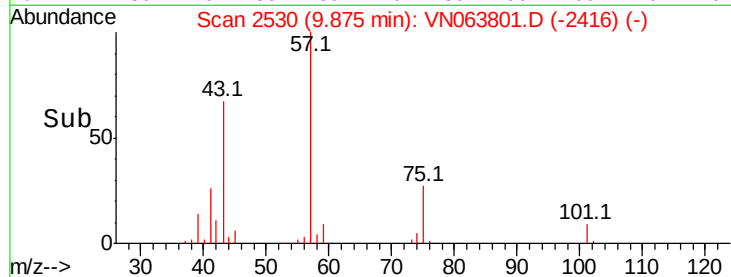
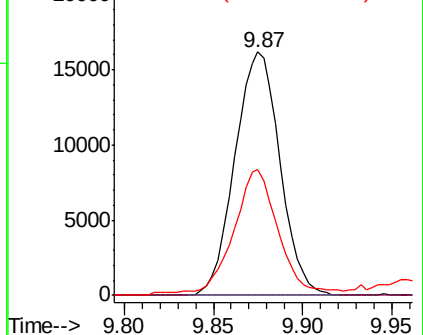
39 50.1 49.7 74.5



Abundance Ion 74.90 (74.60 to 75.60): VN063801.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN063801.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN063801.D (-2416) (-)



#56

Ethyl methacrylate

Concen: 0.357 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

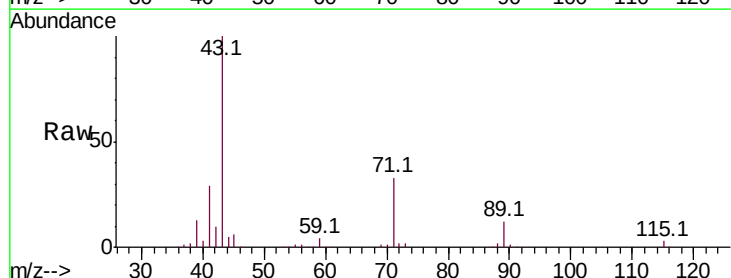
Tgt Ion: 69 Resp: 1440

Ion Ratio Lower Upper

69 100

41 4923.1 61.1 91.7#

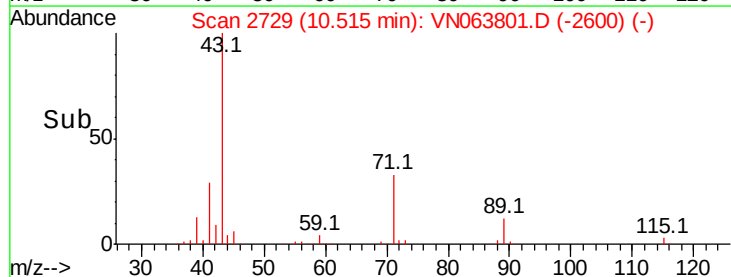
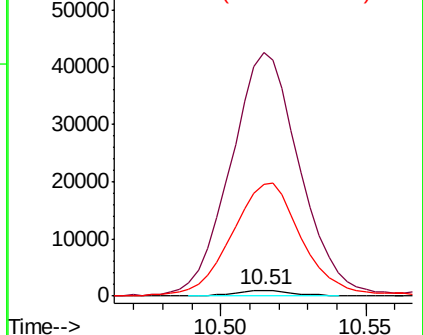
39 2328.4 42.2 63.4#

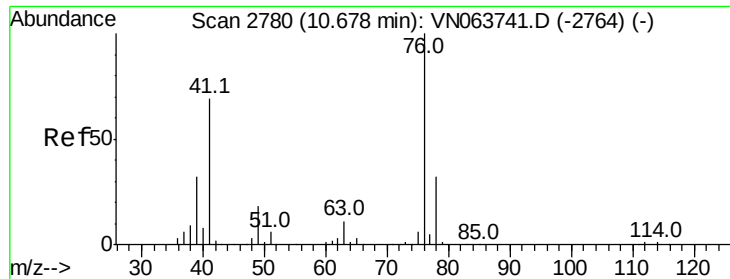


Abundance Ion 69.00 (68.70 to 69.70): VN063801.D (-2600) (-)

Ion 41.00 (40.70 to 41.70): VN063801.D (-2600) (-)

Ion 39.00 (38.70 to 39.70): VN063801.D (-2600) (-)

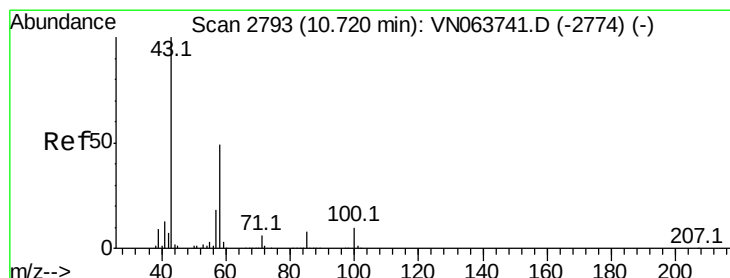
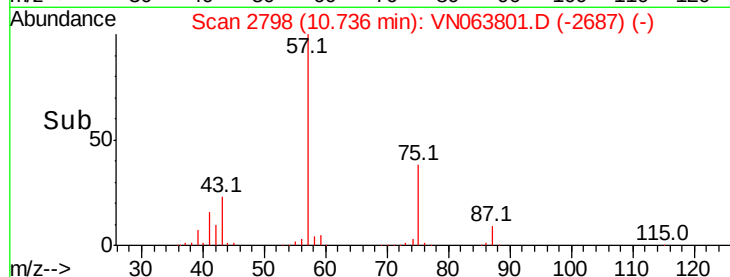
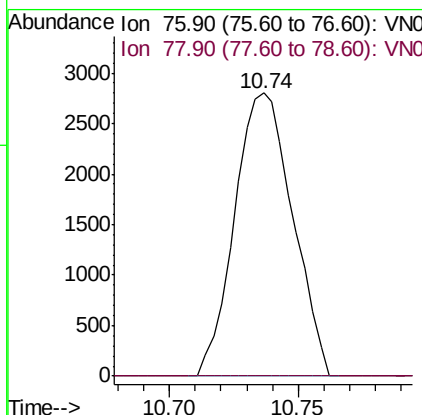
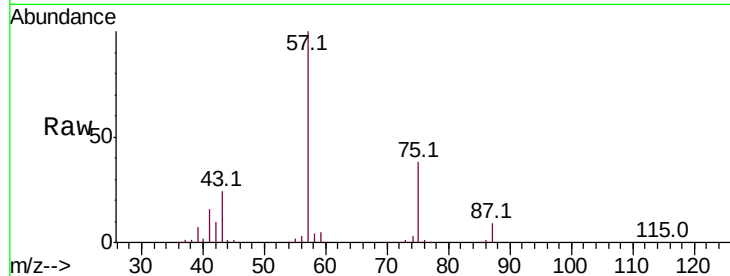




#57
 1,3-Dichloropropane
 Concen: 0.914 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063801.D
 Acq: 2 Oct 2020 4:08

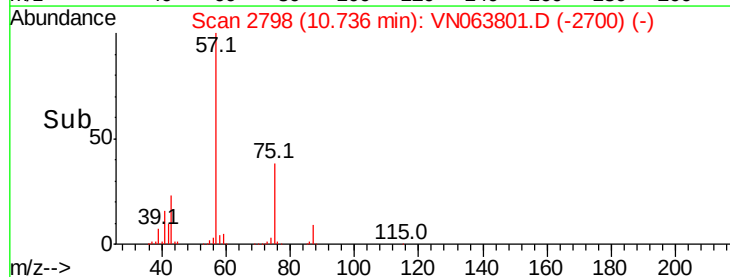
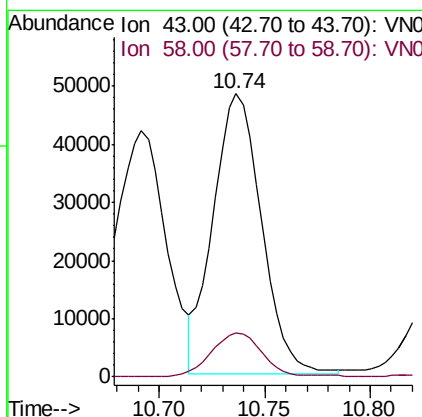
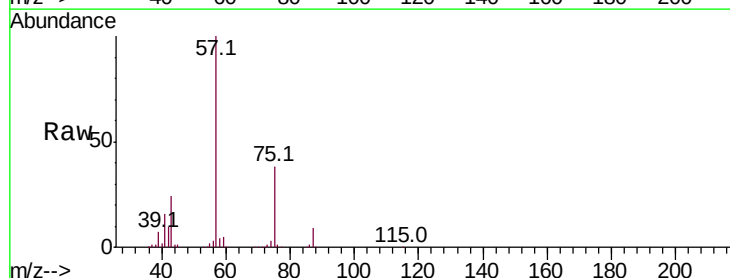
Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B18-092920-0-1

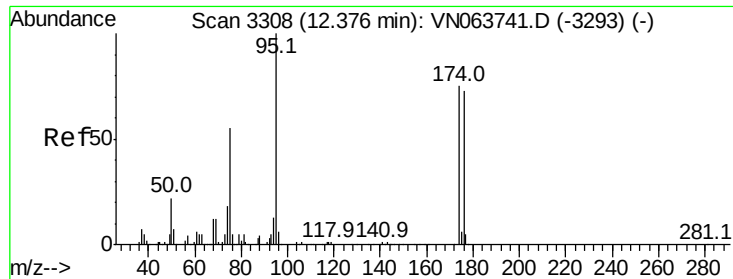
Tot Ion: 76 Resp: 4394
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 26.748 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063801.D
 Acq: 2 Oct 2020 4:08

Tgt Ion: 43 Resp: 76663
 Ion Ratio Lower Upper
 43 100
 58 16.7 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 51.888 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-0-1

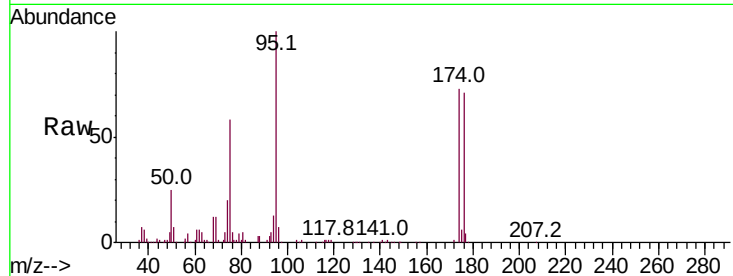
Tot Ion: 95 Resp: 203173

Ion Ratio Lower Upper

95 100

174 73.9 0.0 150.6

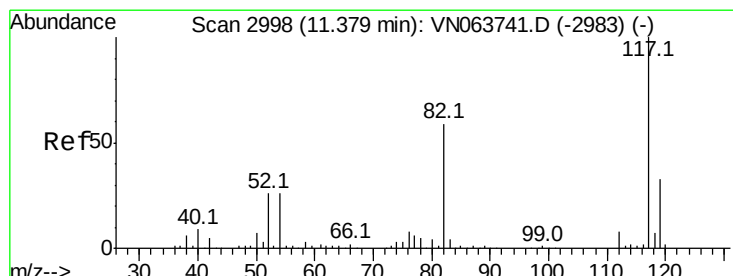
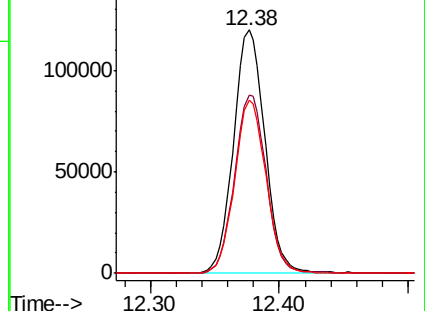
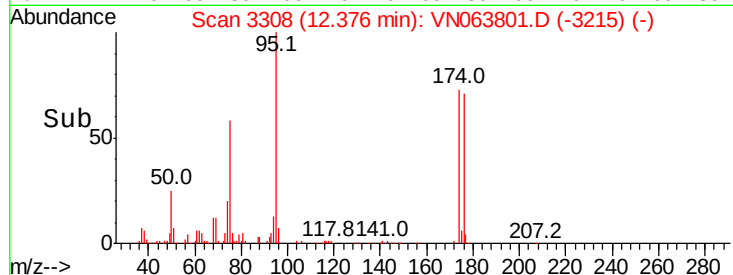
176 71.4 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

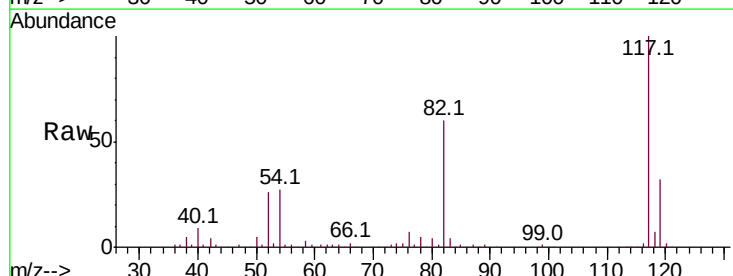
Tgt Ion: 117 Resp: 409497

Ion Ratio Lower Upper

117 100

82 59.7 47.4 71.2

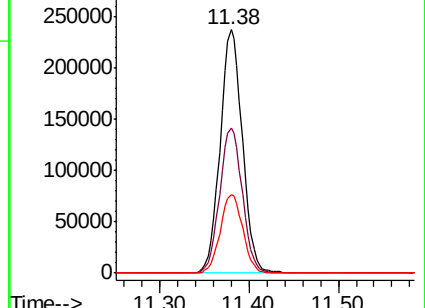
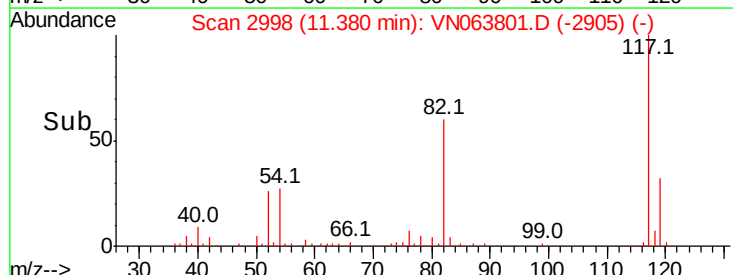
119 32.4 26.4 39.6

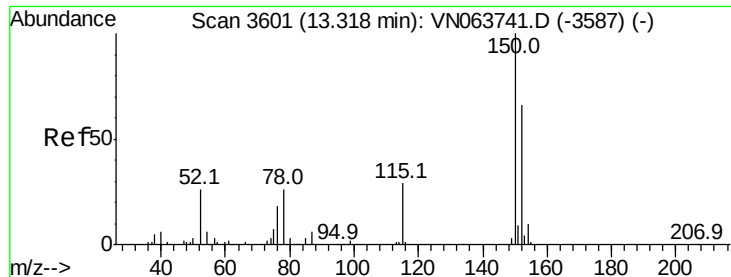


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Instrument :

MSVOA_N

ClientSampleId :

PAV-B18-092920-0-1

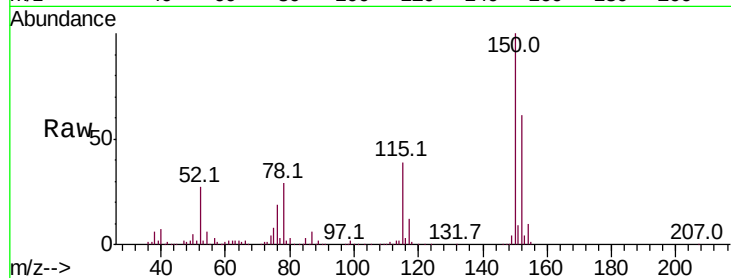
Tot Ion:152 Resp: 170129

Ion Ratio Lower Upper

152 100

115 63.1 31.3 93.8

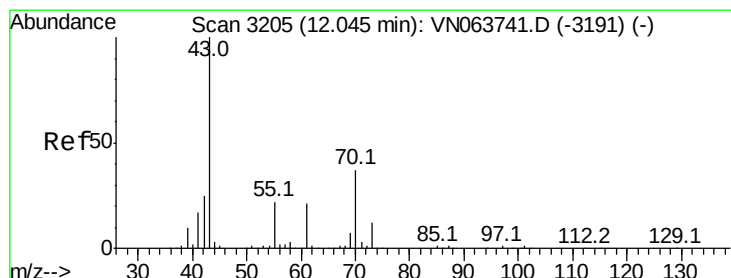
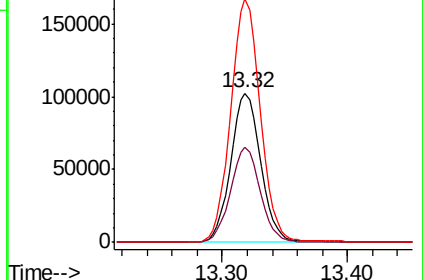
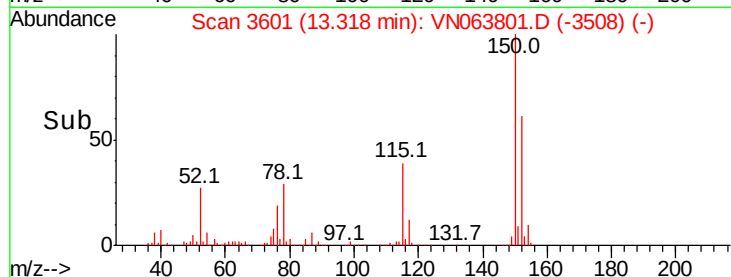
150 160.7 0.0 341.8



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: 2.694 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063801.D

Acq: 2 Oct 2020 4:08

Tgt Ion: 43 Resp: 2884

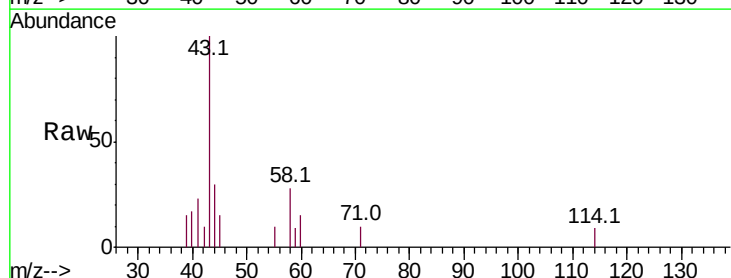
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.8 17.9 26.9#

61 0.0 17.0 25.4#

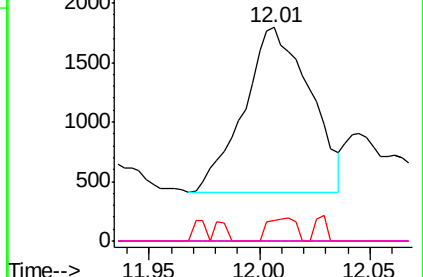
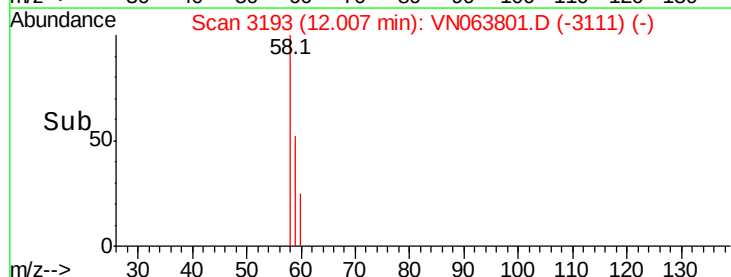


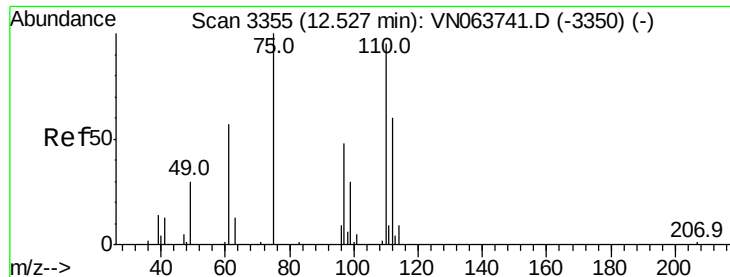
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

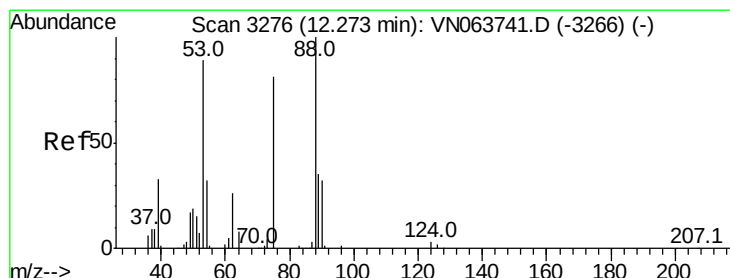
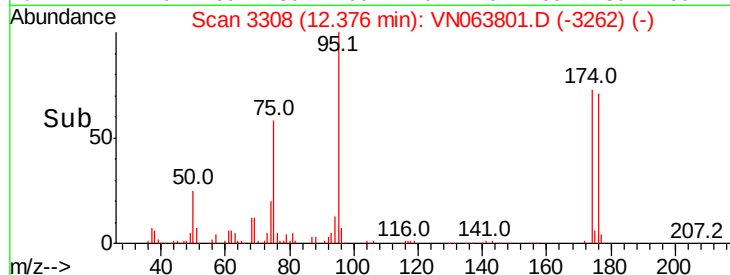
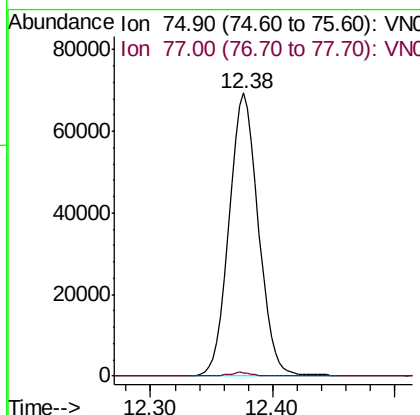
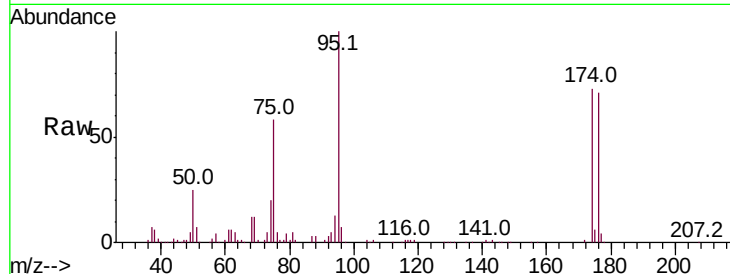




#76
 1,2,3-Trichloropropane
 Concen: 31.078 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063801.D
 Acq: 2 Oct 2020 4:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B18-092920-0-1

Tot Ion: 75 Resp: 116551
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.509 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063801.D
 Acq: 2 Oct 2020 4:08

Tgt Ion: 75 Resp: 116551
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

