

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063922.D
 Acq On : 7 Oct 2020 3:53
 Operator : JC/MD
 Sample : L4242-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B17-100120-18-19

Quant Time: Oct 07 05:41:18 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	230132	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	425326	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	449713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176488	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	204510	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
35) Dibromofluoromethane	7.55	113	147096	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
50) Toluene-d8	10.06	98	563431	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.38	95	213464	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	

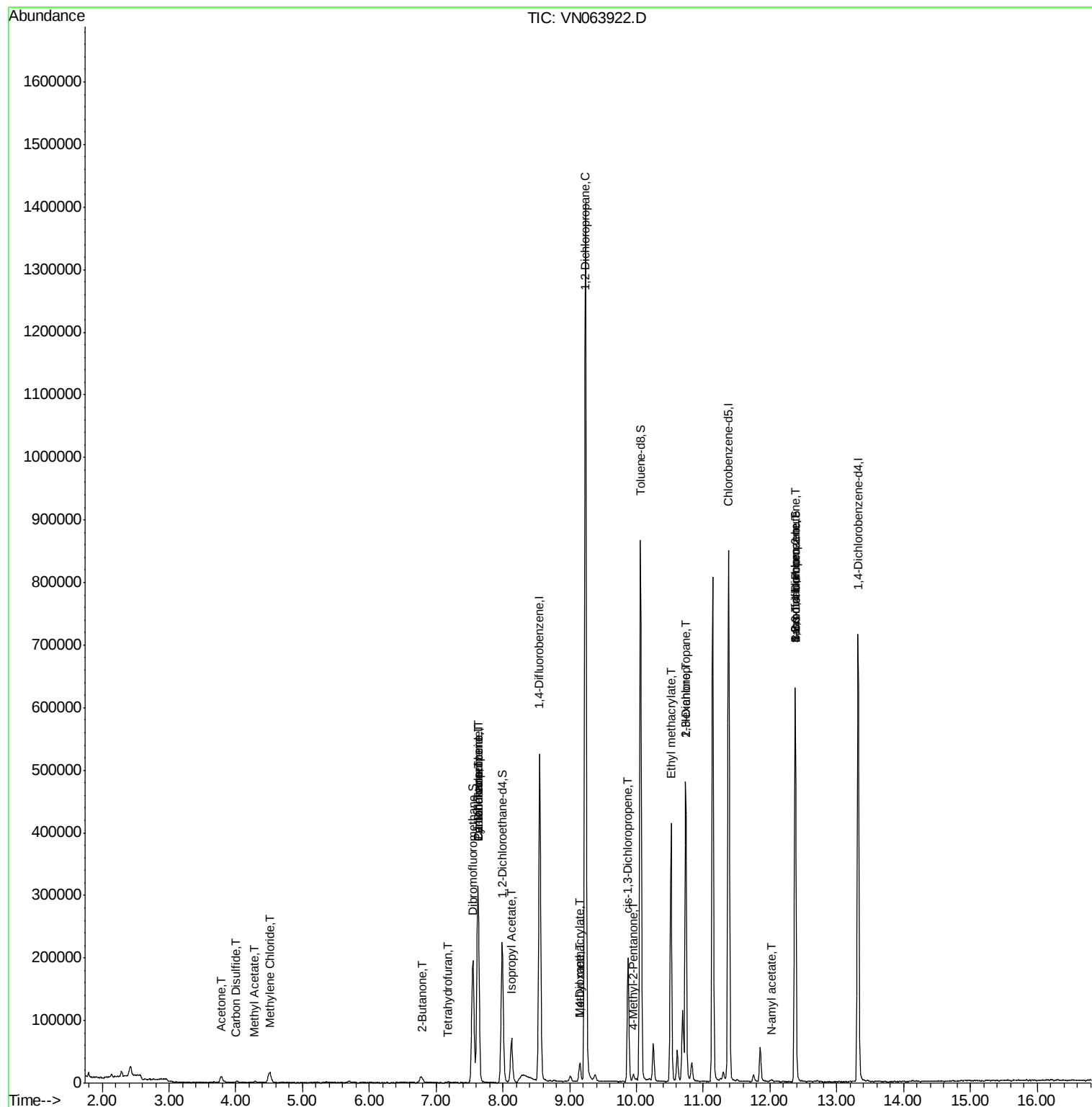
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15749	13.457	ug/l	93
17) Carbon Disulfide	4.00	76	1355	0.914	ug/l #	76
18) Methyl Acetate	4.27	43	975	0.321	ug/l #	54
20) Methylene Chloride	4.50	84	12003	4.567	ug/l	90
25) 2-Butanone	6.79	43	1965	1.184	ug/l	94
29) Tetrahydrofuran	7.17	42	583	0.524	ug/l #	80
31) Cyclohexane	7.63	56	6806	1.542	ug/l #	24
36) 1,1-Dichloropropene	7.63	75	21144	4.907	ug/l #	46
38) Carbon Tetrachloride	7.63	117	26272	5.437	ug/l #	14
43) Isopropyl Acetate	8.13	43	85351	12.087	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1599	0.481	ug/l #	44
48) Methyl methacrylate	9.14	41	5083	1.457	ug/l #	12
49) 1,4-Dioxane	9.16	88	109	2.198	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8484	2.047	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	31517	5.949	ug/l #	64
56) Ethyl methacrylate	10.51	69	2081	0.481	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4148	0.803	ug/l #	43
59) 2-Hexanone	10.74	43	79832	25.933	ug/l #	54
71) Bromoform	12.37	173	672	0.248	ug/l #	1
74) N-amyl acetate	12.01	43	2194	2.566	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	119025	30.594	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119025	88.115	ug/l #	6

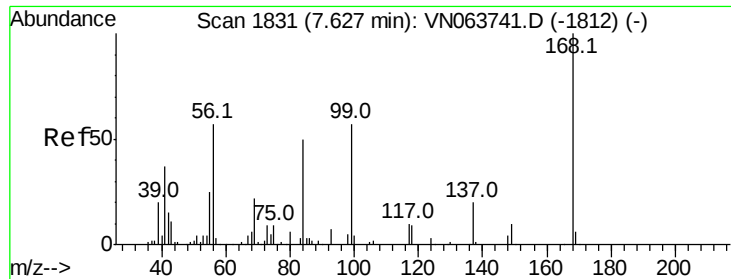
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1832

Delta R.T. 0.00 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

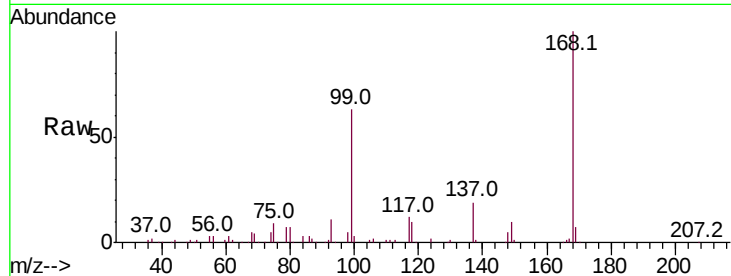
PAV-B17-100120-18-19

Tot Ion:168 Resp: 230132

Ion Ratio Lower Upper

168 100

99 63.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

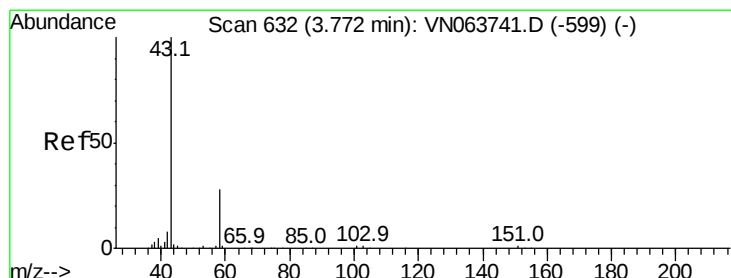
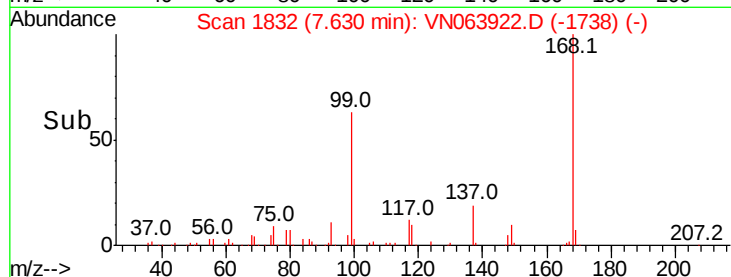
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 13.457 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063922.D

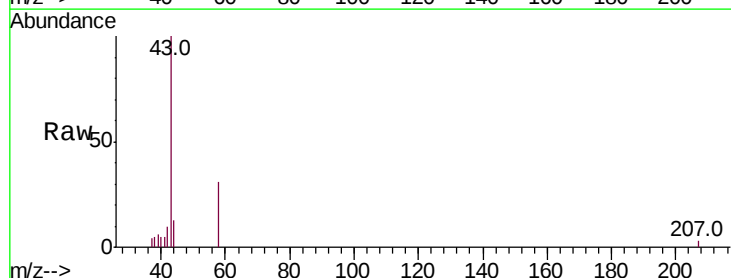
Acq: 7 Oct 2020 3:53

Tgt Ion: 43 Resp: 15749

Ion Ratio Lower Upper

43 100

58 31.4 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

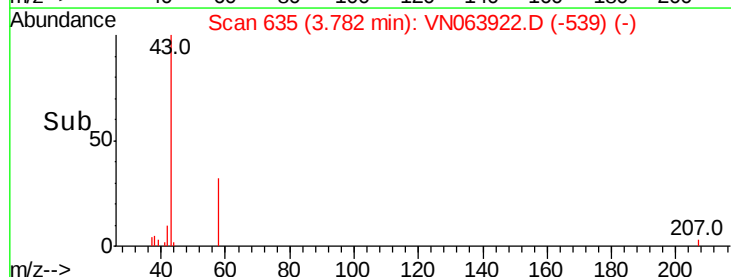
6000

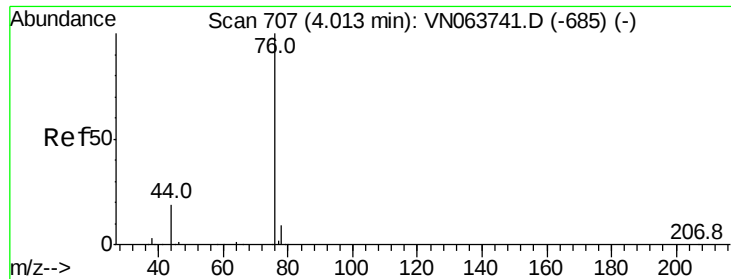
4000

2000

0

Time--> 3.70 3.75 3.80 3.85

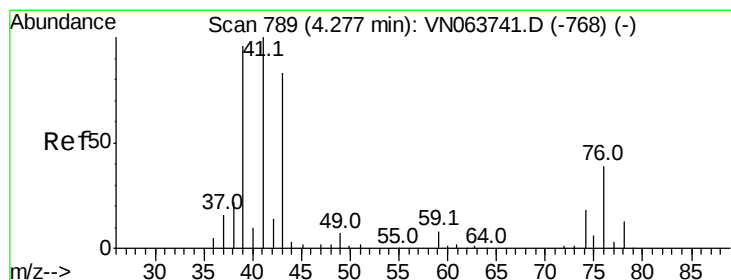
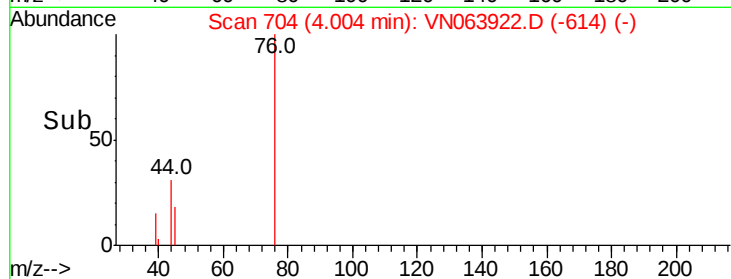
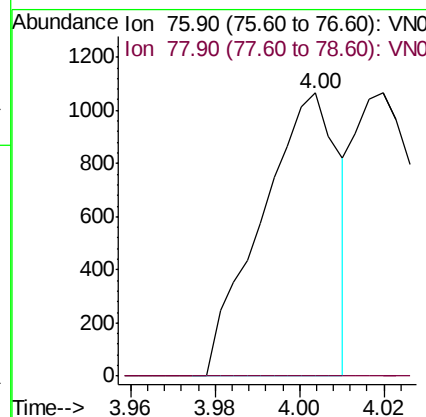
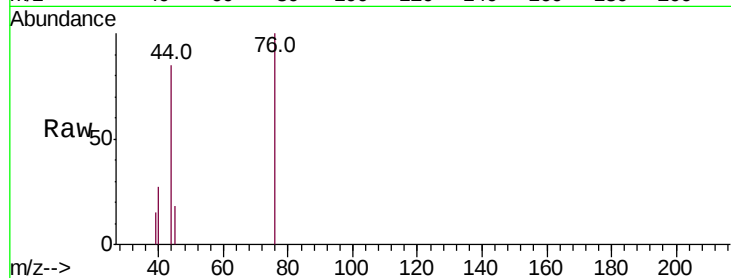




#17
Carbon Disulfide
Concen: 0.914 ug/l
RT: 4.00 min Scan# 704
Delta R.T. -0.01 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

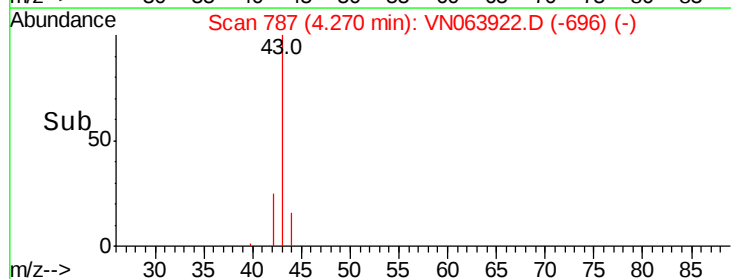
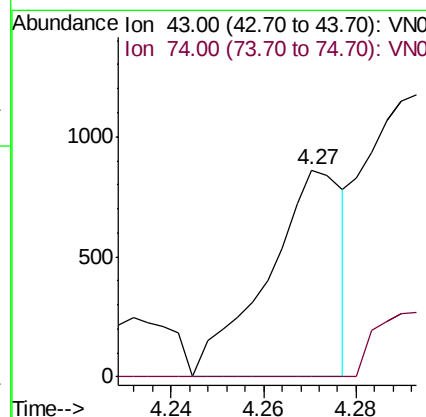
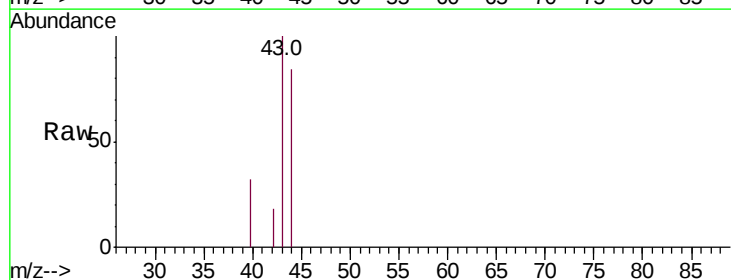
Instrument :
MSVOA_N
ClientSampleId :
PAV-B17-100120-18-19

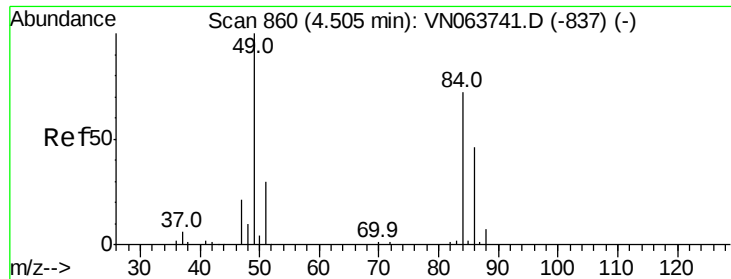
Tot Ion: 76 Resp: 1355
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 0.321 ug/l
RT: 4.27 min Scan# 787
Delta R.T. -0.01 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

Tgt Ion: 43 Resp: 975
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#

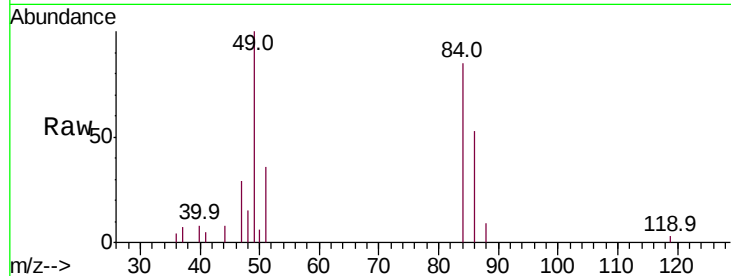




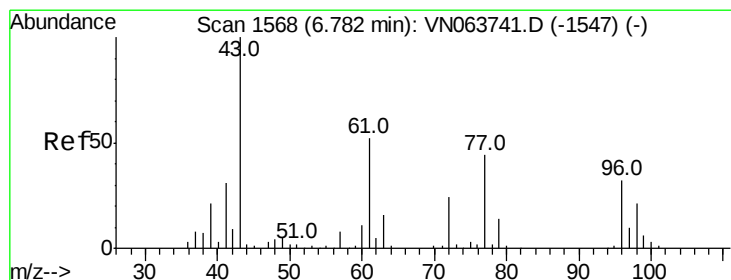
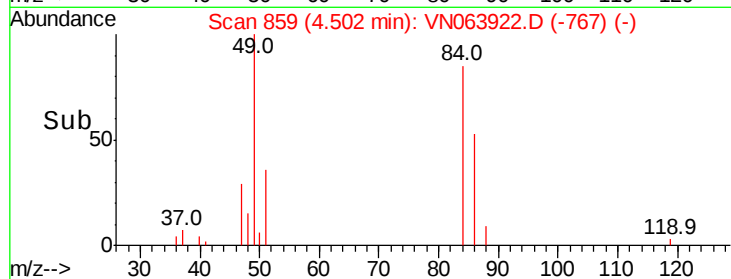
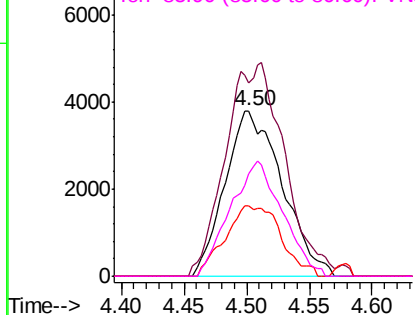
#20
Methvlene Chloride
Concen: 4.567 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

Instrument :
MSVOA_N
ClientSampleId :
PAV-B17-100120-18-19

Tot Ion:	84	Resp:	12003
Ion	Ratio	Lower	Upper
84	100		
49	117.2	110.4	165.6
51	42.3	33.3	49.9
86	62.0	50.7	76.1

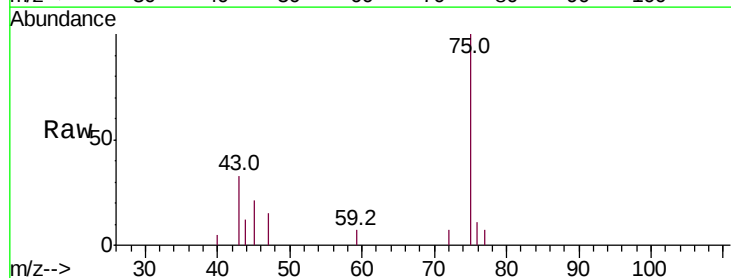


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

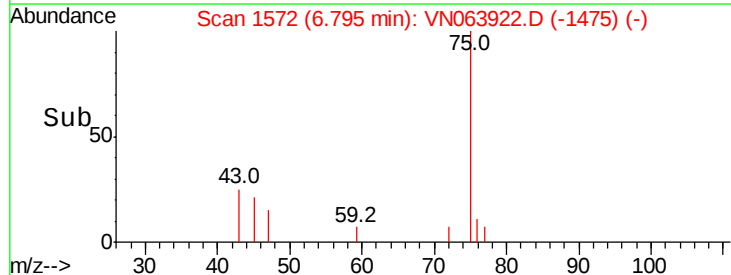
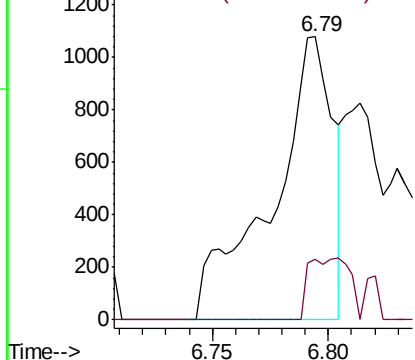


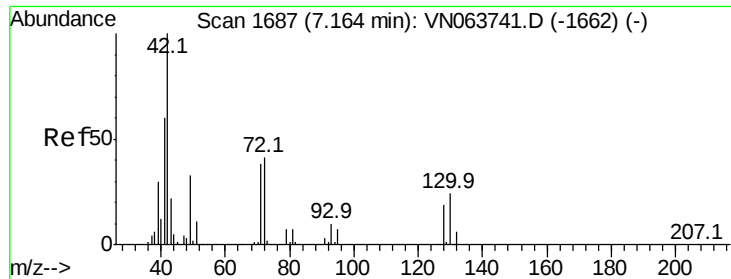
#25
2-Butanone
Concen: 1.184 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

Tgt Ion:	43	Resp:	1965
Ion	Ratio	Lower	Upper
43	100		
72	21.3	19.3	28.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.524 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

PAV-B17-100120-18-19

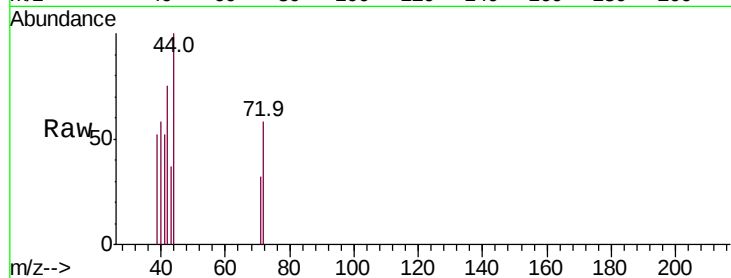
Tot Ion: 42 Resp: 583

Ion Ratio Lower Upper

42 100

72 36.2 32.8 49.2

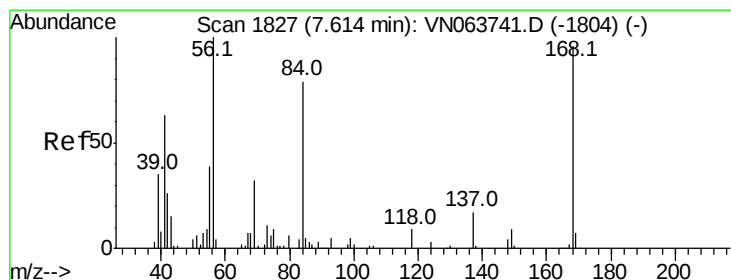
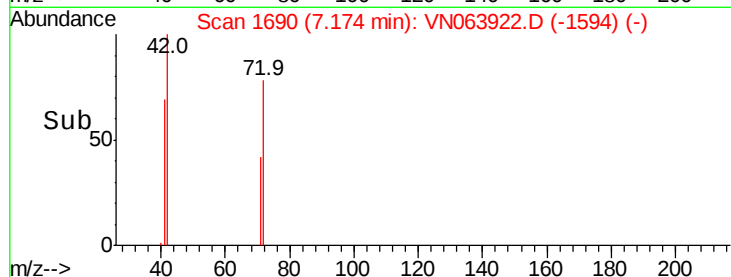
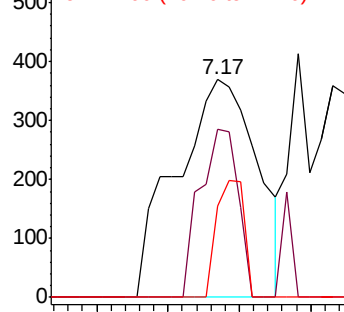
71 18.2 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.542 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

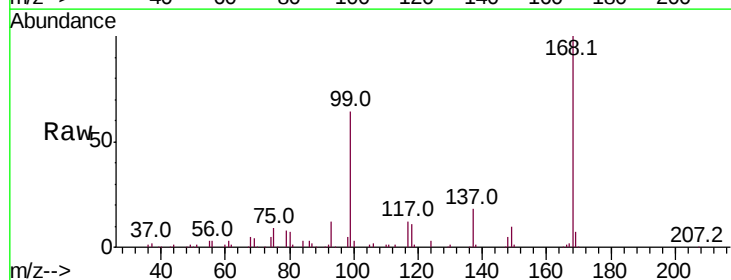
Tgt Ion: 56 Resp: 6806

Ion Ratio Lower Upper

56 100

69 148.6 25.4 38.2#

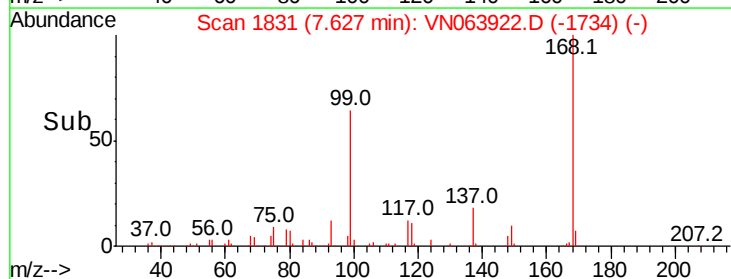
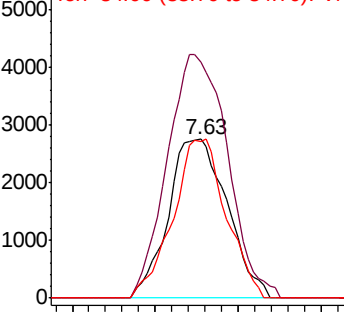
84 98.4 63.3 94.9#

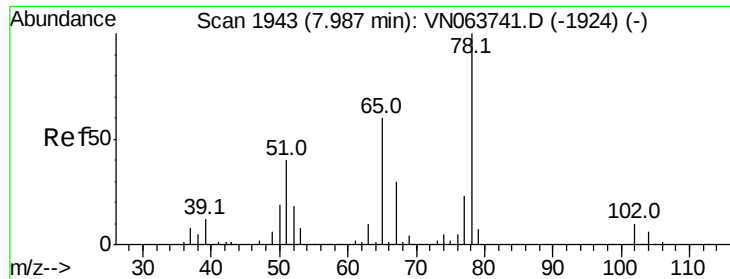


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

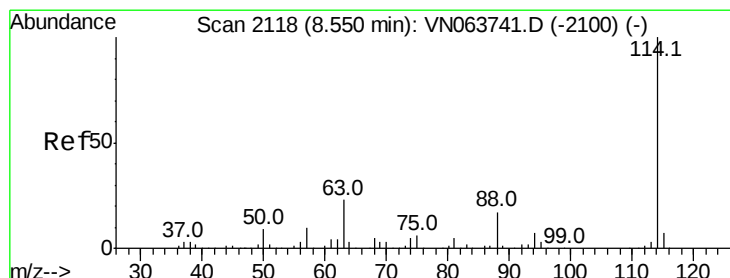
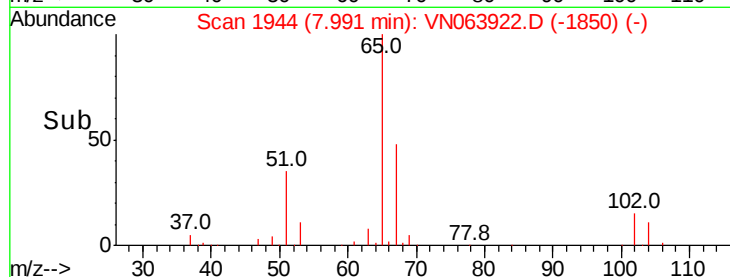
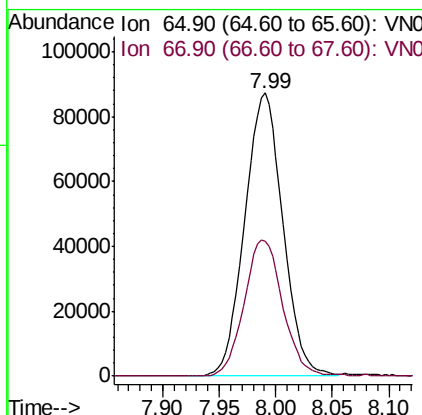
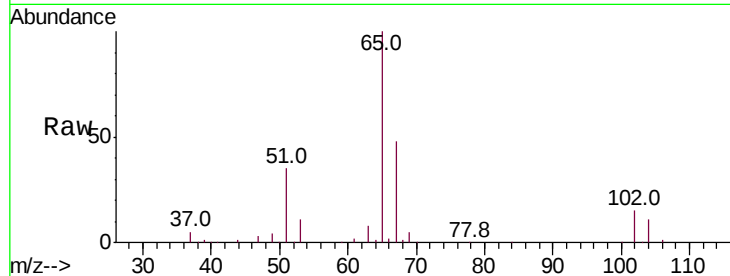




#33
 1,2-Dichloroethane-d4
 Concen: 53.791 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

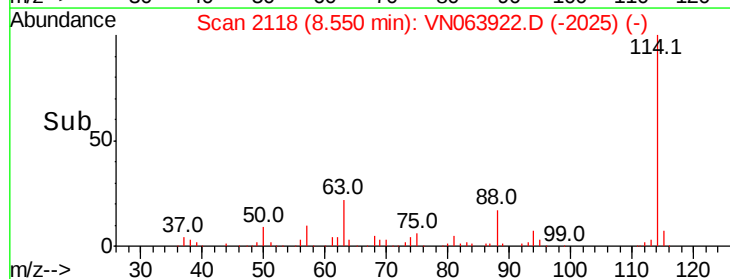
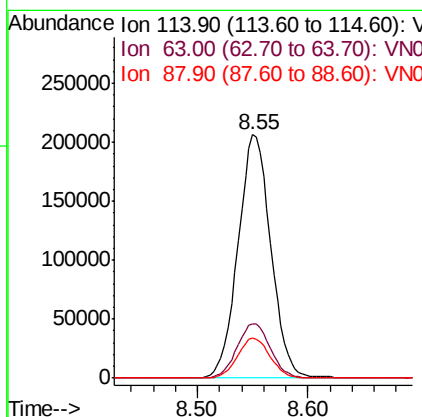
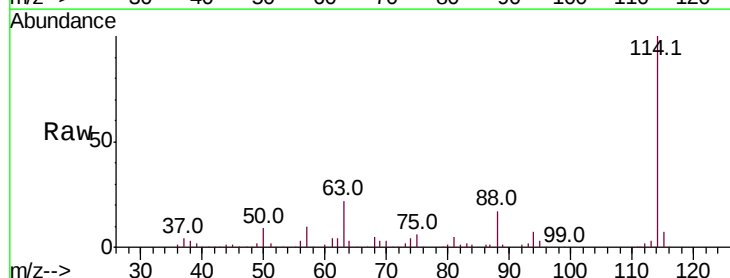
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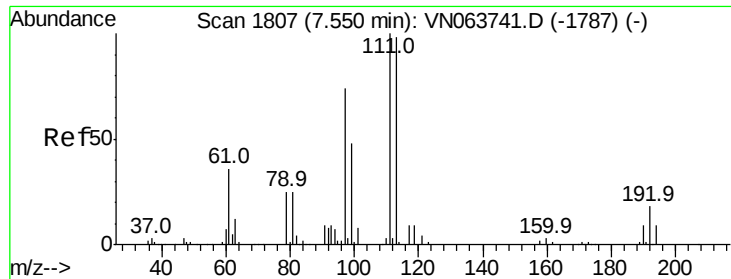
Tot Ion: 65 Resp: 204510
 Ion Ratio Lower Upper
 65 100
 67 48.6 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

Tgt Ion: 114 Resp: 425326
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.6 0.0 34.0

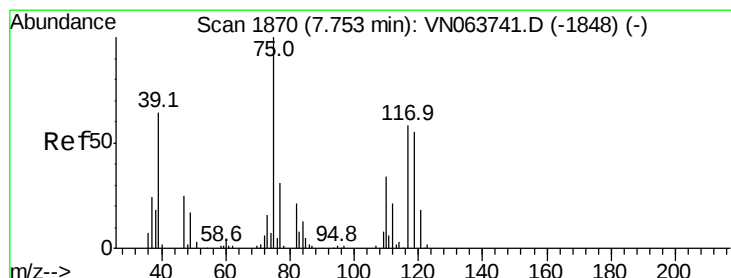
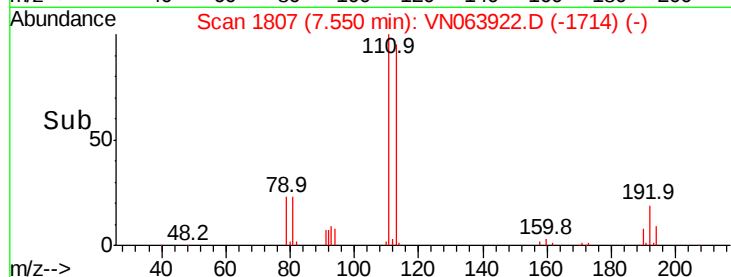
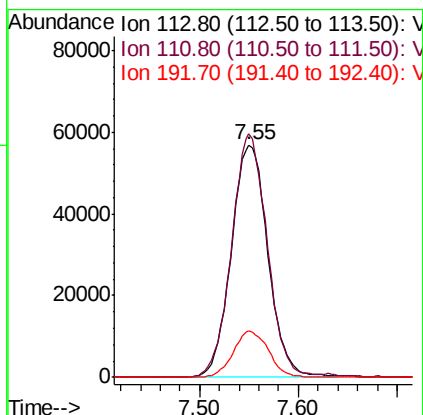
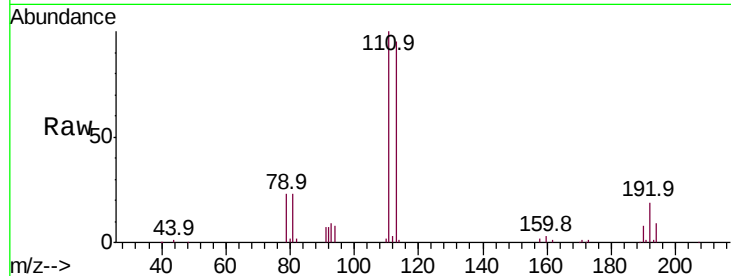




#35
 Dibromofluoromethane
 Concen: 49.842 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

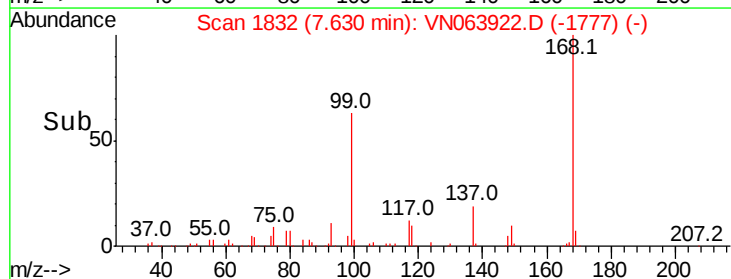
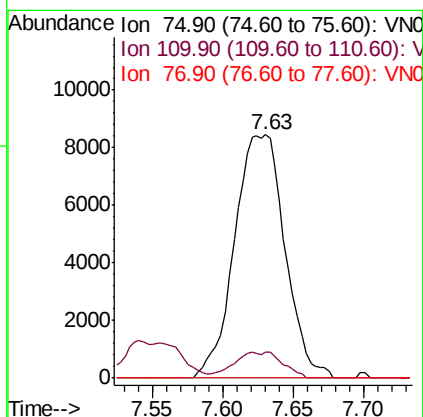
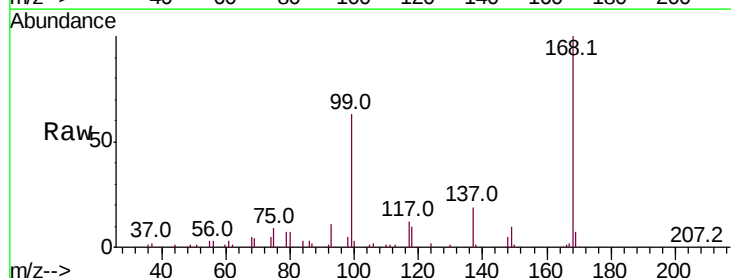
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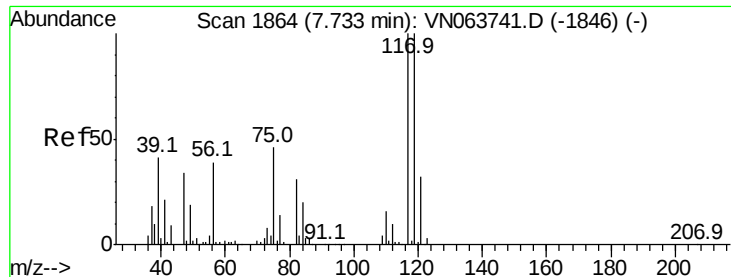
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.8
192	19.1	14.2	21.2



#36
 1,1-Dichloropropene
 Concen: 4.907 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.3	16.9	50.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 5.437 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

PAV-B17-100120-18-19

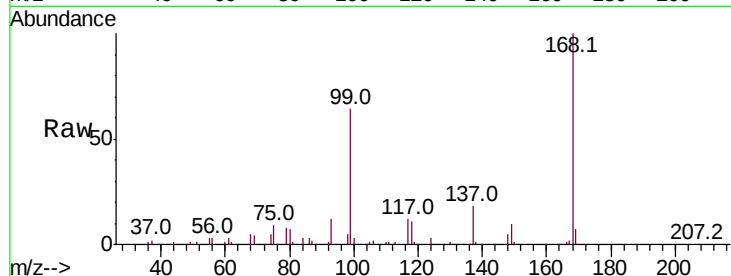
Tot Ion:117 Resp: 26272

Ion Ratio Lower Upper

117 100

119 4.4 80.1 120.1#

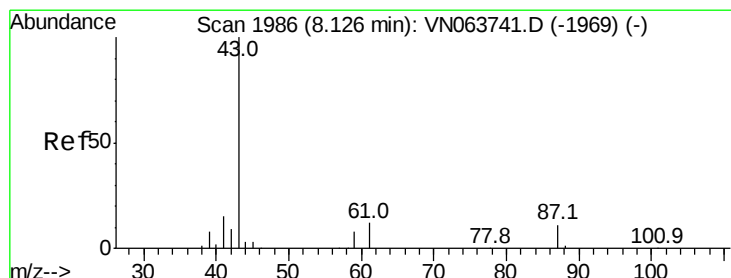
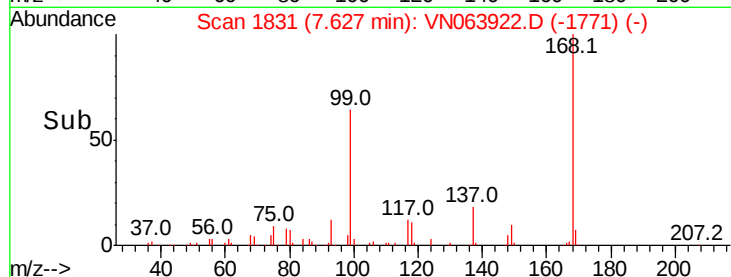
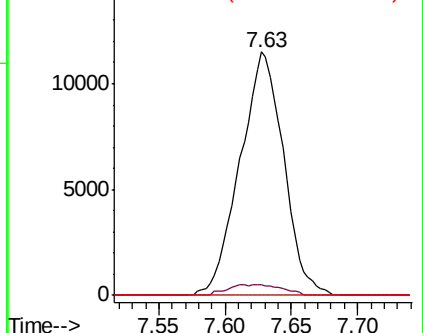
121 0.0 25.7 38.5#



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: 12.087 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

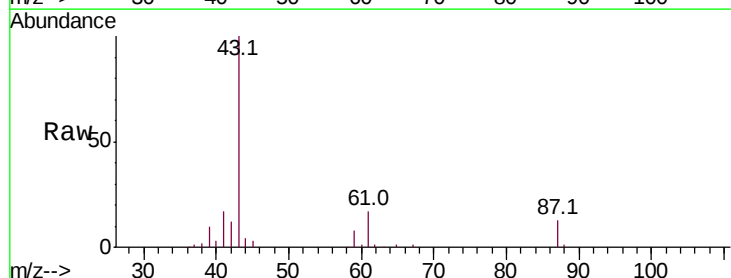
Tgt Ion: 43 Resp: 85351

Ion Ratio Lower Upper

43 100

61 17.1 14.2 21.4

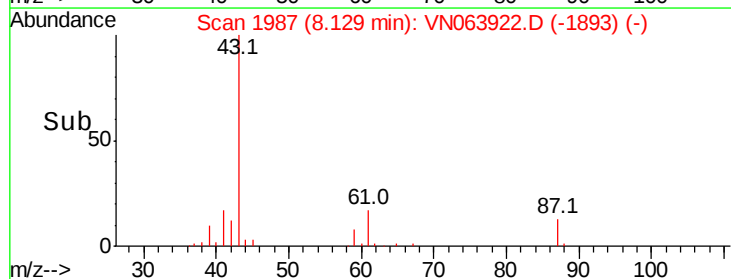
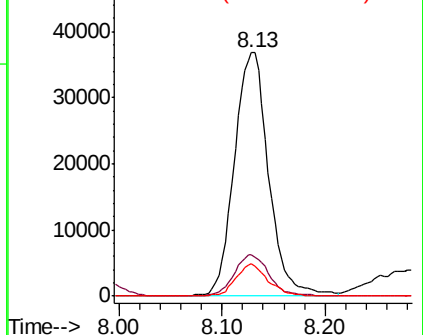
87 12.3 9.0 13.6

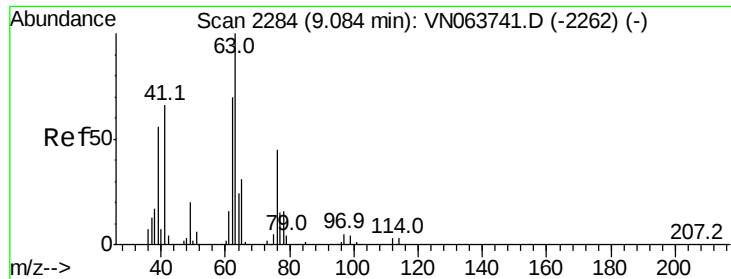


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.481 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

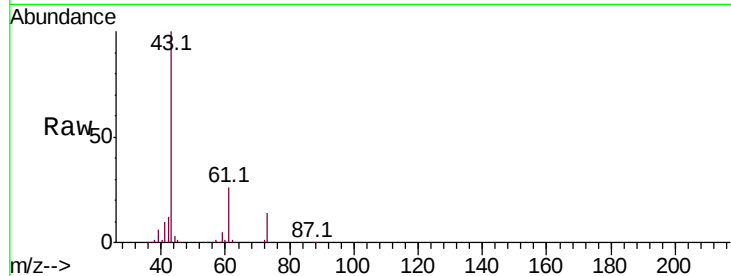
PAV-B17-100120-18-19

Tot Ion: 63 Resp: 1599

Ion Ratio Lower Upper

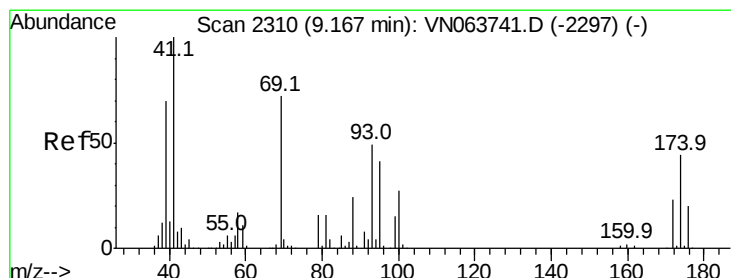
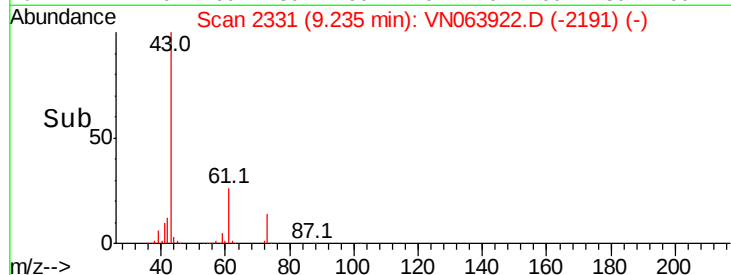
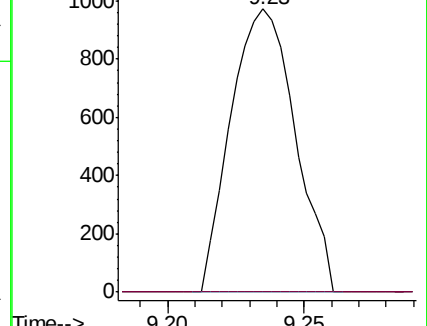
63 100

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

Methyl methacrylate

Concen: 1.457 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

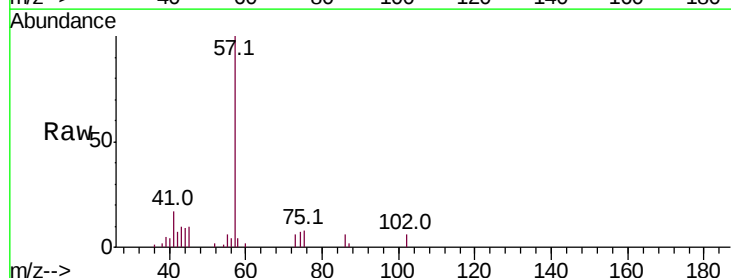
Tgt Ion: 41 Resp: 5083

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

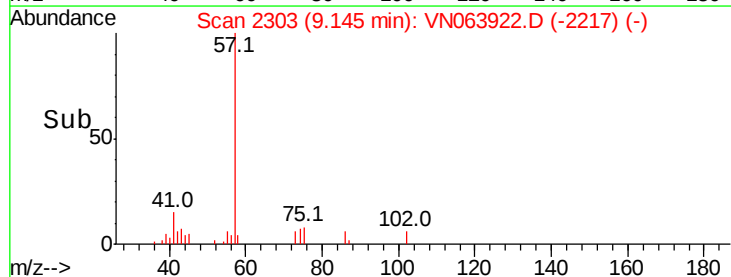
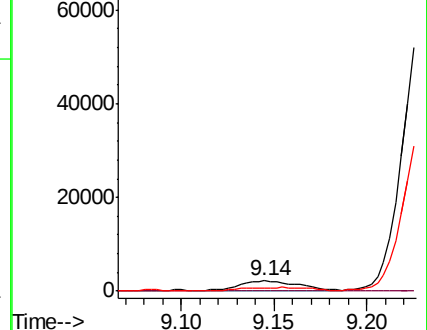
39 0.0 57.5 86.3#

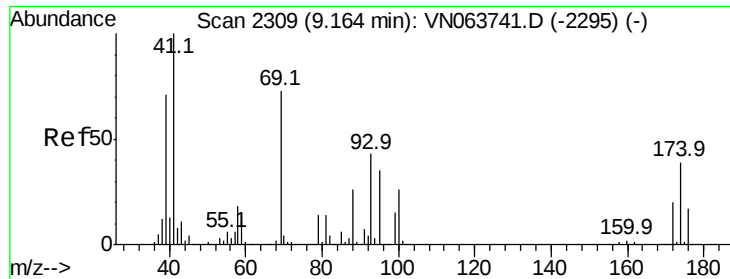


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 2.198 ug/l

RT: 9.16 min Scan# 2307

Delta R.T. -0.01 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

PAV-B17-100120-18-19

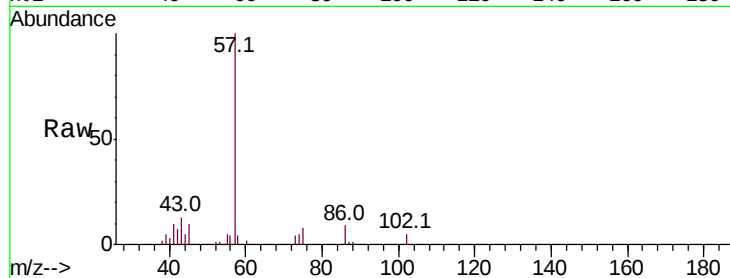
Tot Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 0.0 33.1 49.7#

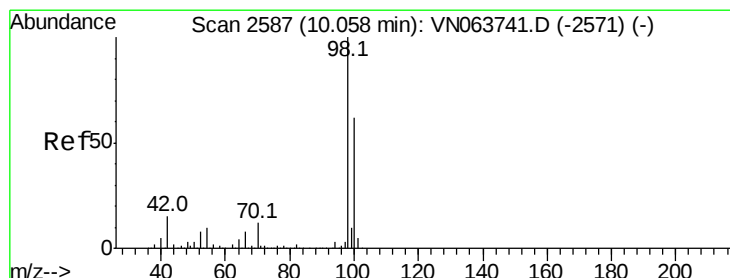
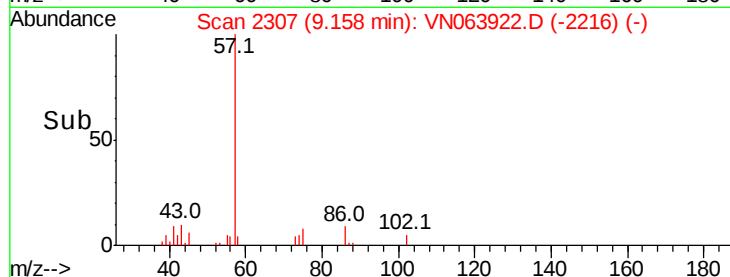
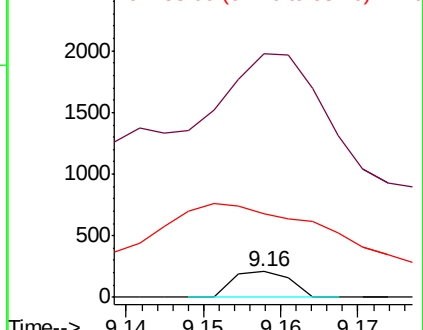
58 1454.1 58.9 88.3#



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: 50.361 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063922.D

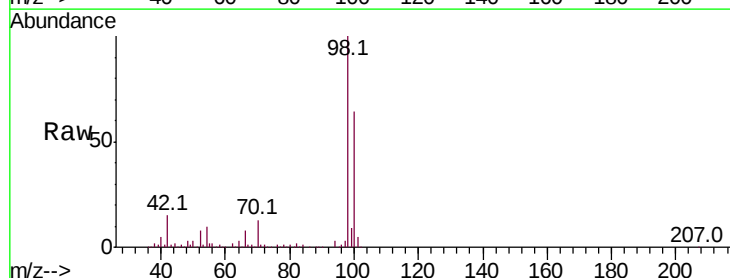
Acq: 7 Oct 2020 3:53

Tgt Ion: 98 Resp: 563431

Ion Ratio Lower Upper

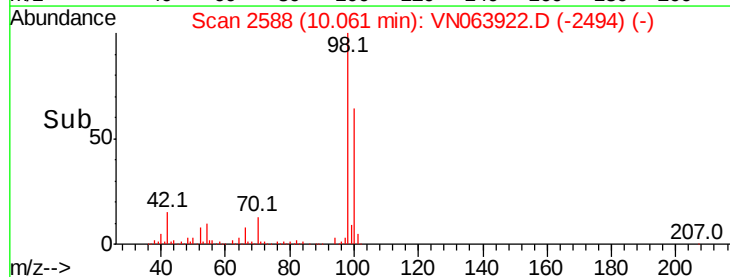
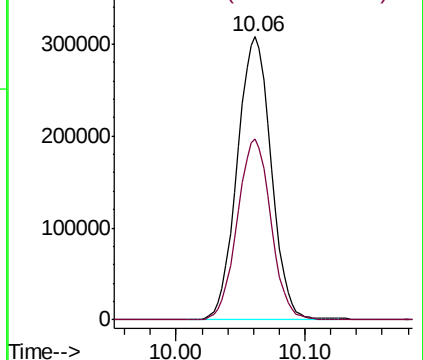
98 100

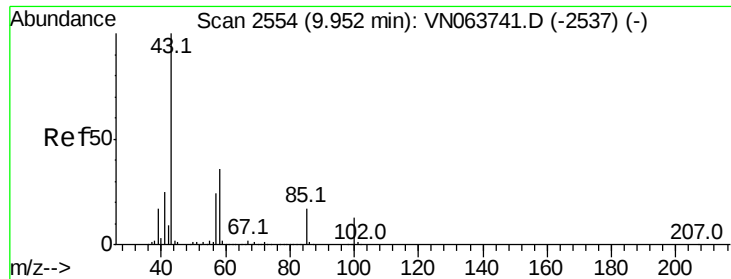
100 63.3 49.8 74.6



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: 2.047 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

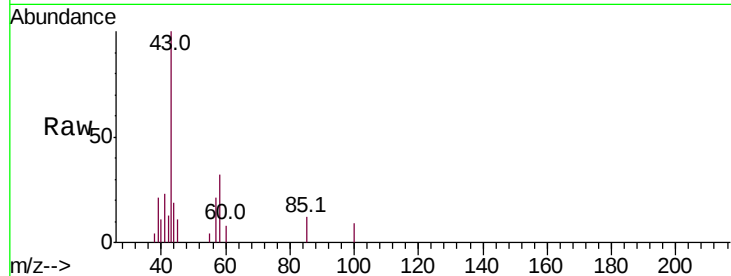
PAV-B17-100120-18-19

Tot Ion: 43 Resp: 8484

Ion Ratio Lower Upper

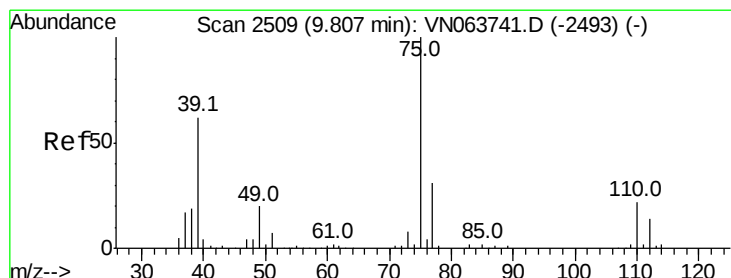
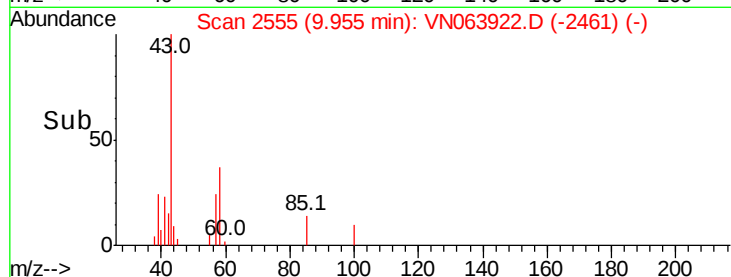
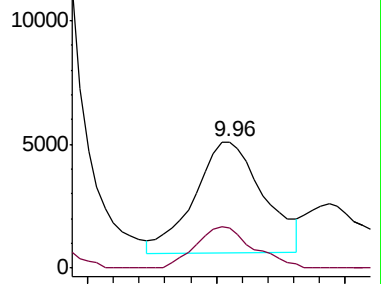
43 100

58 30.9 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.949 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

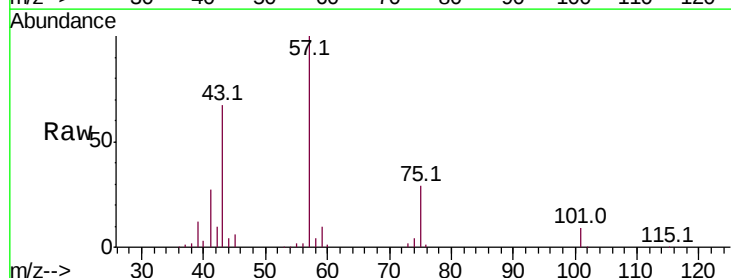
Tgt Ion: 75 Resp: 31517

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

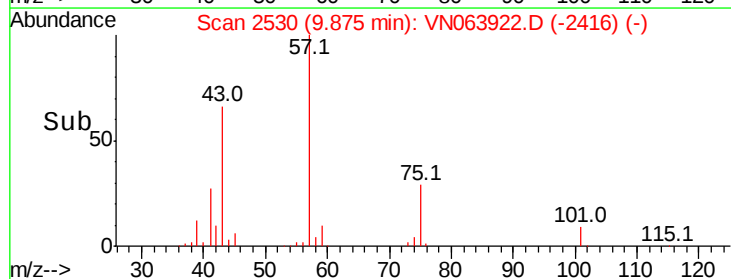
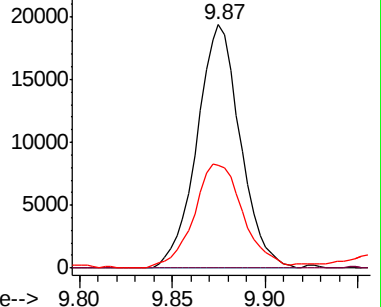
39 42.1 49.7 74.5#

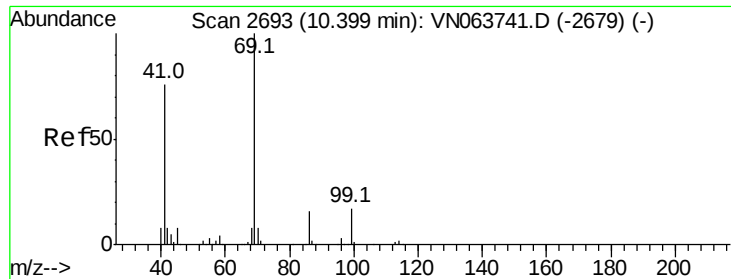


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.481 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

PAV-B17-100120-18-19

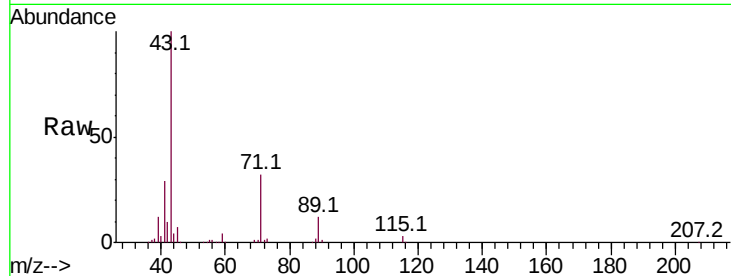
Tot Ion: 69 Resp: 2081

Ion Ratio Lower Upper

69 100

41 4167.5 61.1 91.7#

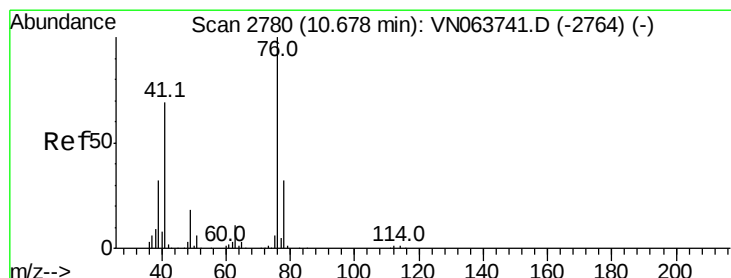
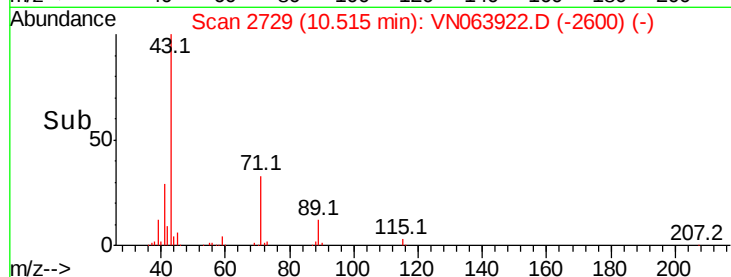
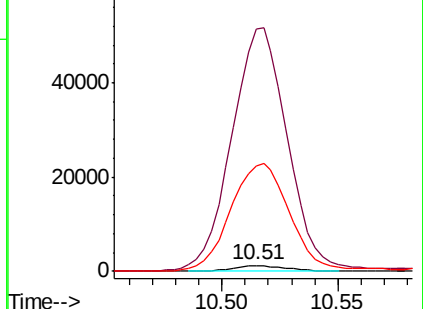
39 1966.0 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 0.803 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063922.D

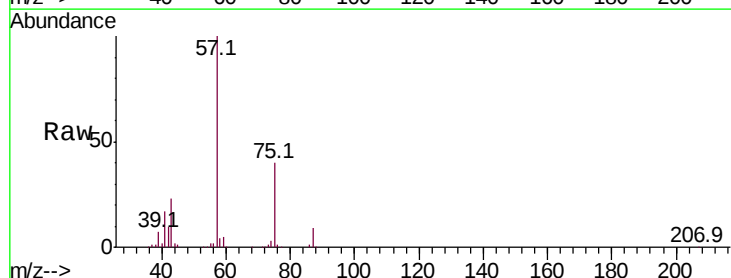
Acq: 7 Oct 2020 3:53

Tgt Ion: 76 Resp: 4148

Ion Ratio Lower Upper

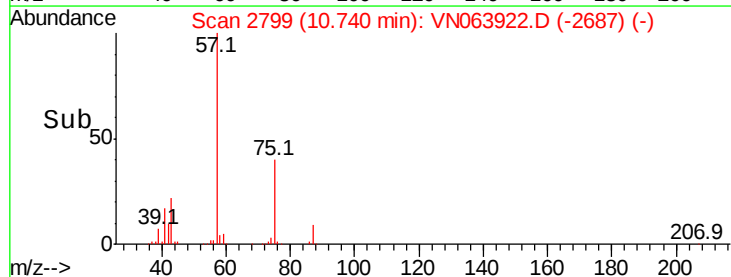
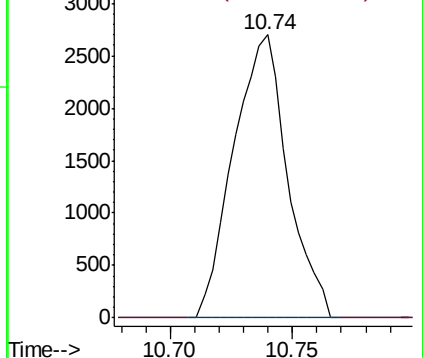
76 100

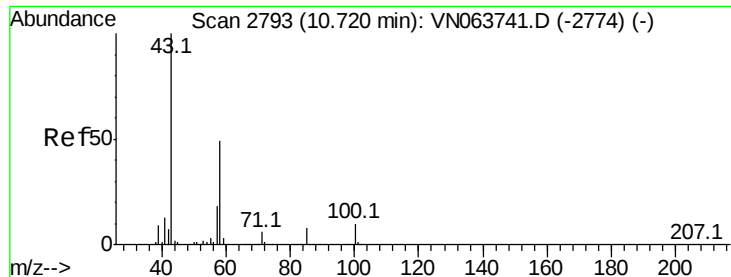
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC





#59

2-Hexanone

Concen: 25.933 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

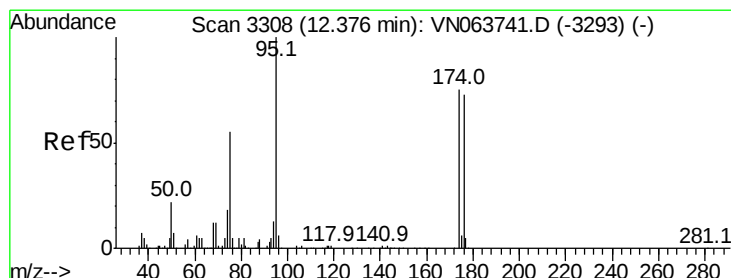
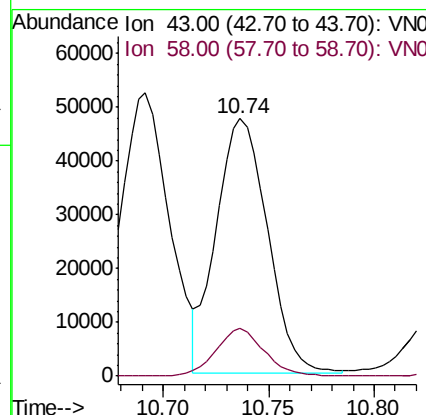
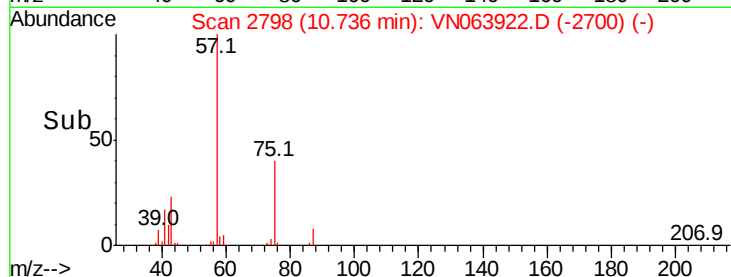
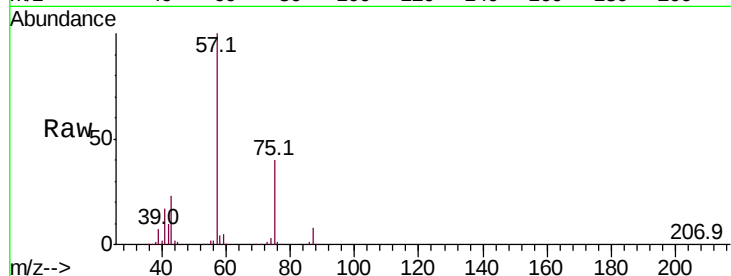
PAV-B17-100120-18-19

Tot Ion: 43 Resp: 79832

Ion Ratio Lower Upper

43 100

58 17.8 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 50.757 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

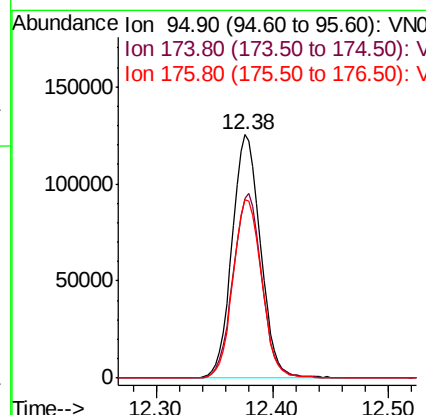
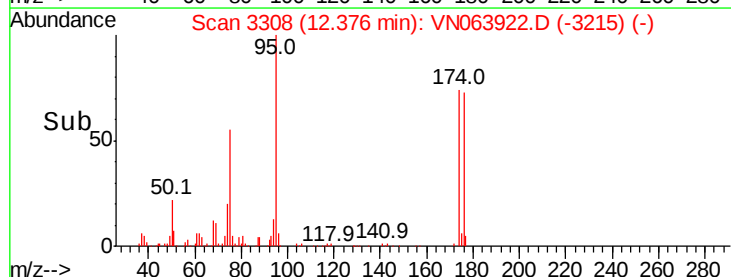
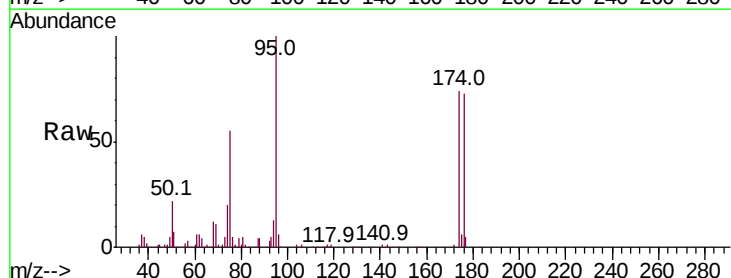
Tgt Ion: 95 Resp: 213464

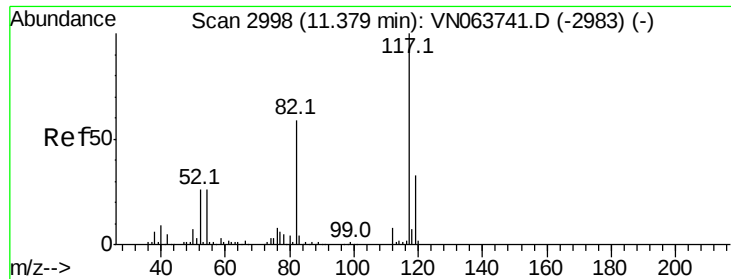
Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.6

176 73.4 0.0 145.4

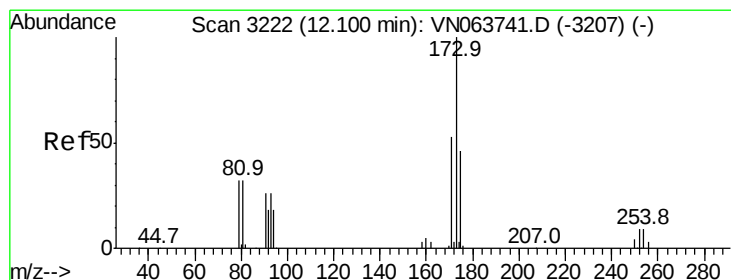
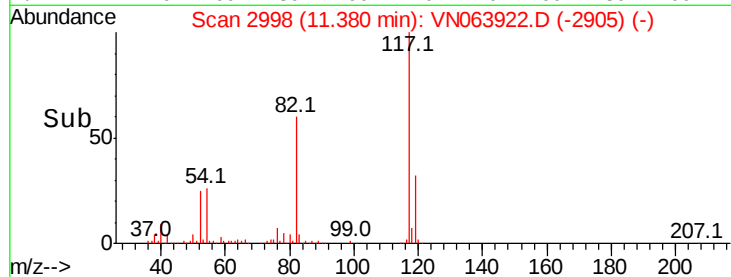
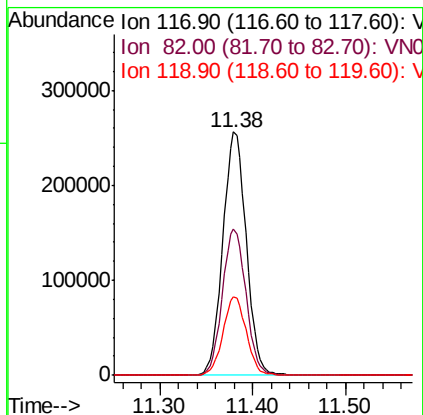
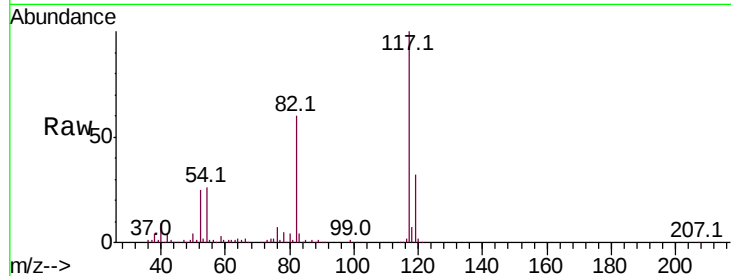




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

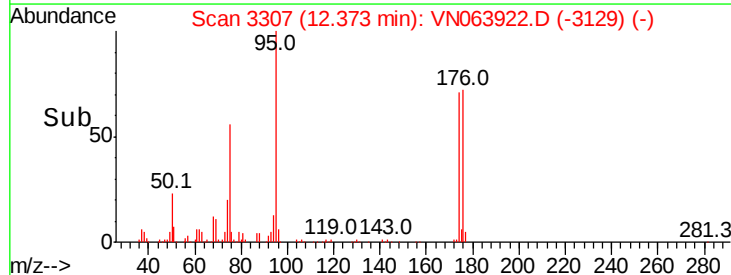
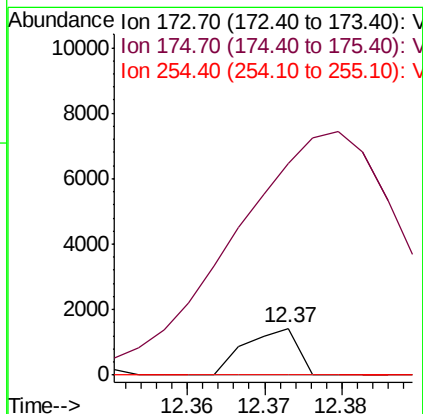
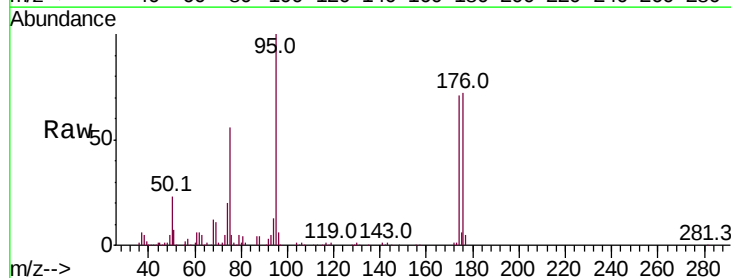
Instrument :
MSVOA_N
ClientSampleId :
PAV-B17-100120-18-19

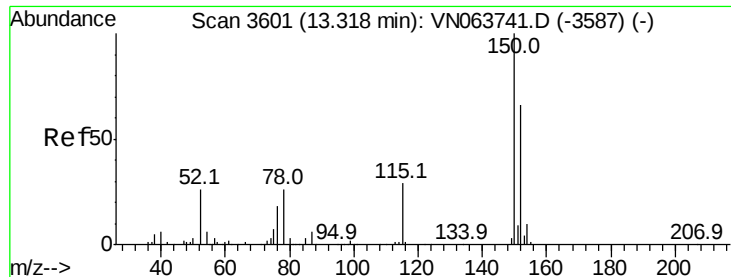
Tot Ion:117 Resp: 449713
Ion Ratio Lower Upper
117 100
82 60.3 47.4 71.2
119 32.2 26.4 39.6



#71
Bromoform
Concen: 0.248 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063922.D
Acq: 7 Oct 2020 3:53

Tgt Ion:173 Resp: 672
Ion Ratio Lower Upper
173 100
175 1486.6 23.5 70.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Instrument :

MSVOA_N

ClientSampleId :

PAV-B17-100120-18-19

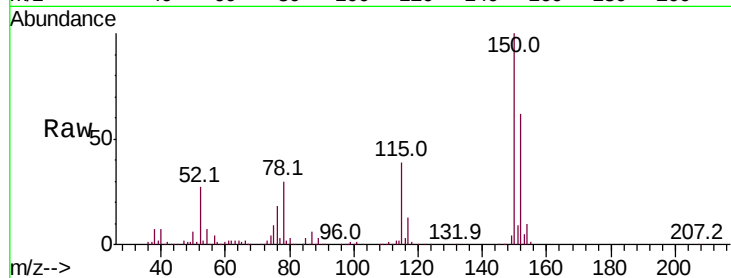
Tot Ion:152 Resp: 176488

Ion Ratio Lower Upper

152 100

115 61.7 31.3 93.8

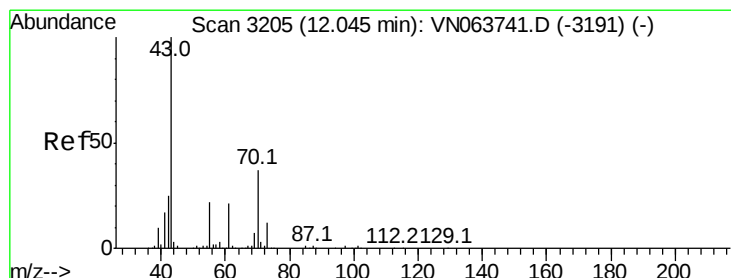
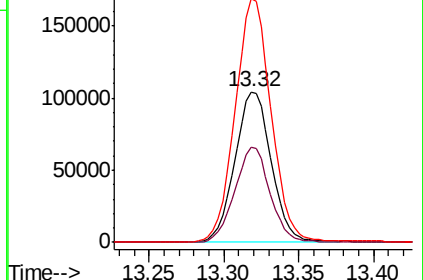
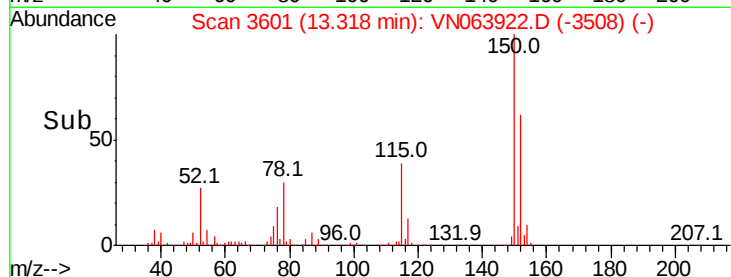
150 160.1 0.0 341.8



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-ethyl acetate

Concen: 2.566 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063922.D

Acq: 7 Oct 2020 3:53

Tgt Ion: 43 Resp: 2194

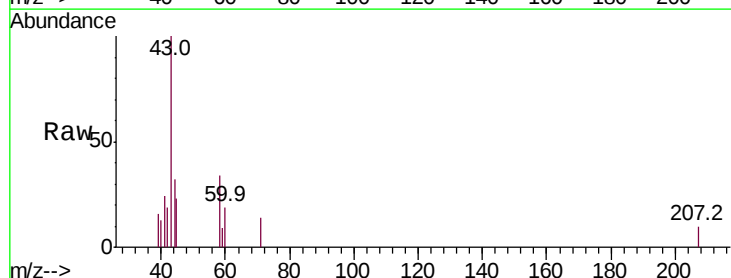
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 3.0 17.9 26.9#

61 0.0 17.0 25.4#

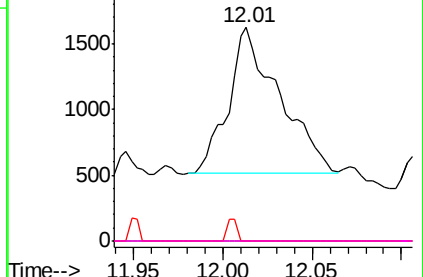
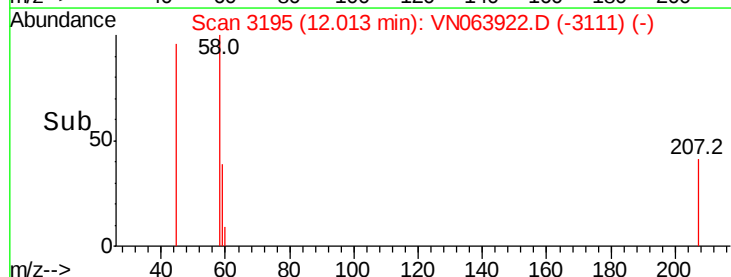


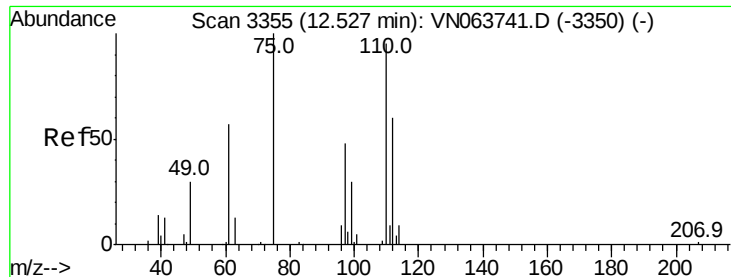
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

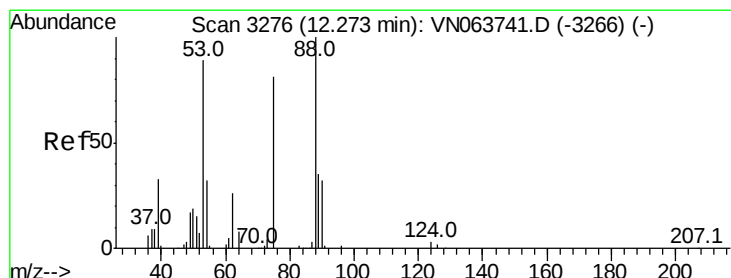
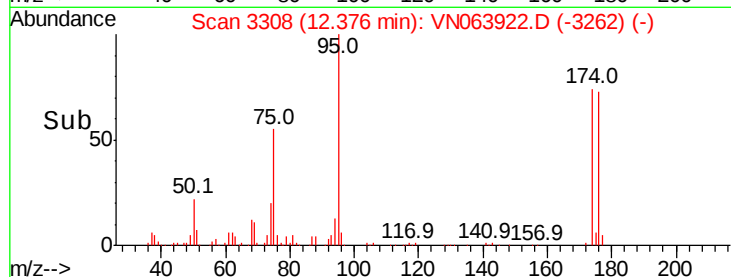
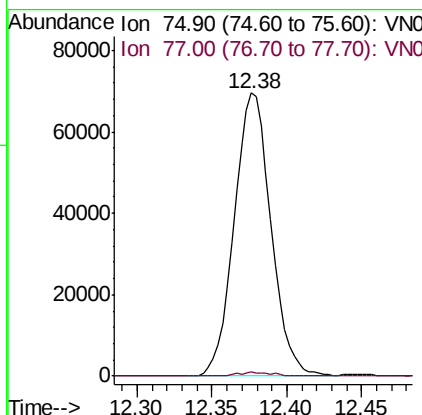
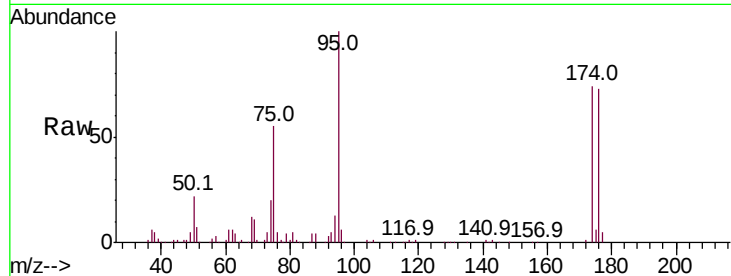




#76
 1,2,3-Trichloropropane
 Concen: 30.594 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B17-100120-18-19

Tot Ion: 75 Resp: 119025
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.115 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063922.D
 Acq: 7 Oct 2020 3:53

Tgt Ion: 75 Resp: 119025
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.2 132.2#
 89 0.0 36.0 54.0#

