

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063465.D
 Acq On : 18 Sep 2020 18:13
 Operator : JC/MD
 Sample : L4059-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B33-091720-18-19

Quant Time: Sep 21 01:36:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	240597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	456053	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	465592	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196028	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	198913	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	7.55	113	145549	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	10.06	98	593953	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	12.38	95	236599	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	

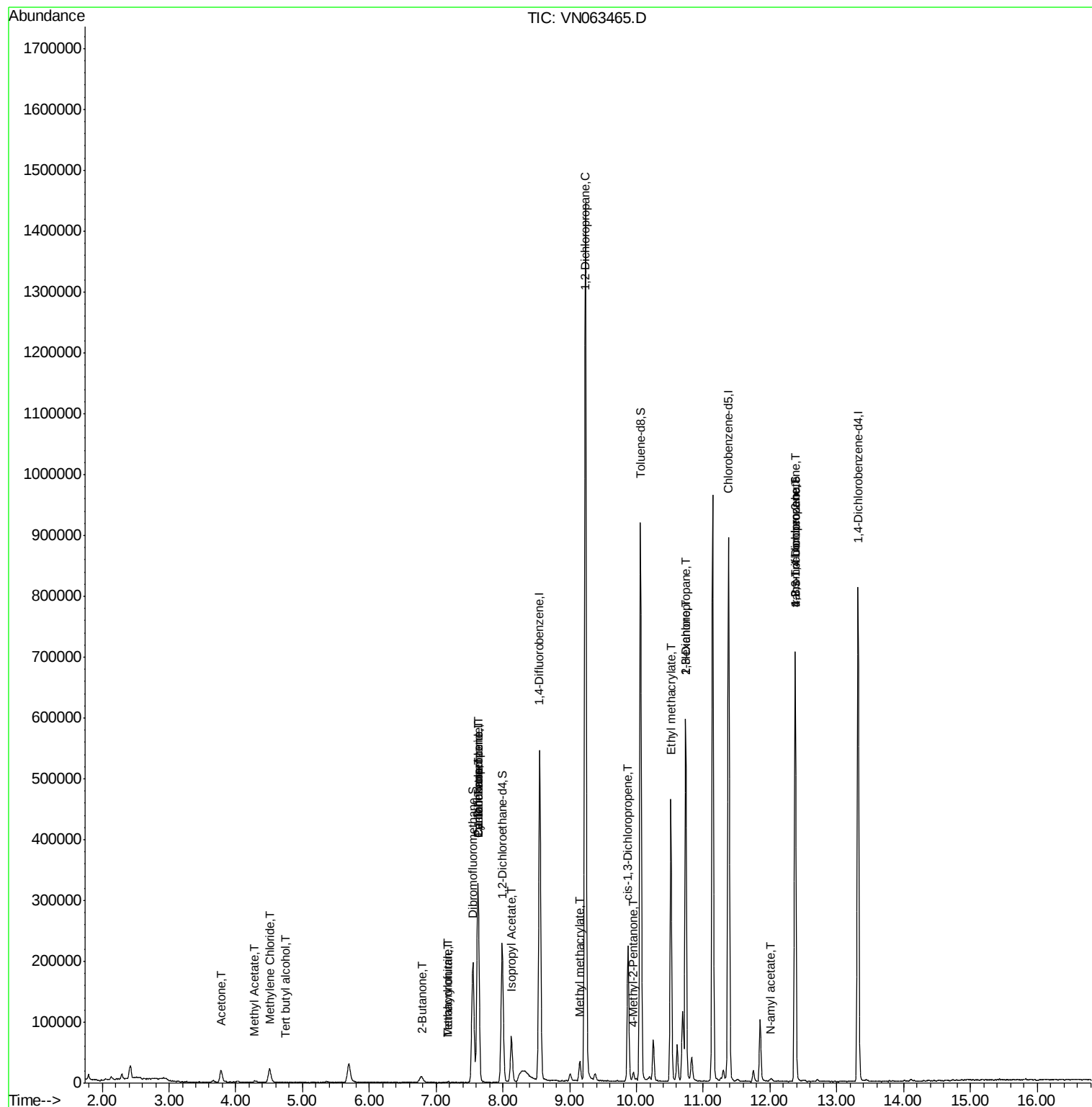
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	188	0.331	ug/l #	72
16) Acetone	3.78	43	32859	24.964	ug/l	98
18) Methyl Acetate	4.28	43	1420	0.425	ug/l #	54
20) Methylene Chloride	4.51	84	14499	4.348	ug/l	96
25) 2-Butanone	6.80	43	5929	2.929	ug/l #	90
29) Tetrahydrofuran	7.17	42	1352	0.978	ug/l #	37
31) Cyclohexane	7.62	56	7316	1.293	ug/l #	42
36) 1,1-Dichloropropene	7.63	75	22846	4.702	ug/l #	47
38) Carbon Tetrachloride	7.63	117	26843	5.412	ug/l #	17
41) Methacrylonitrile	7.17	41	538	0.251	ug/l #	100
43) Isopropyl Acetate	8.13	43	89626	10.511	ug/l	100
45) 1,2-Dichloropropane	9.24	63	1678	0.444	ug/l #	43
48) Methyl methacrylate	9.15	41	5689	1.358	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	11292	2.366	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	36346	5.984	ug/l #	63
56) Ethyl methacrylate	10.51	69	1435	0.278	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5631	0.943	ug/l #	42
59) 2-Hexanone	10.74	43	92404	26.720	ug/l #	55
74) N-amyl acetate	12.01	43	4063	0.546	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	132265	27.260	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132265	74.737	ug/l #	7

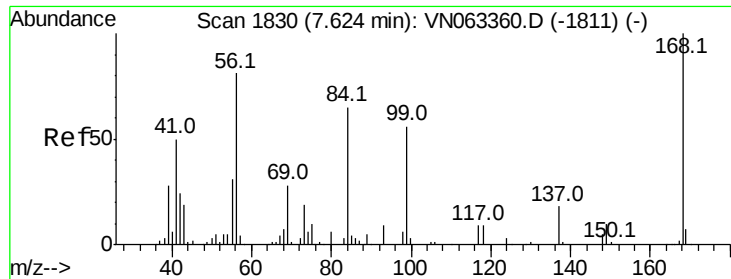
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

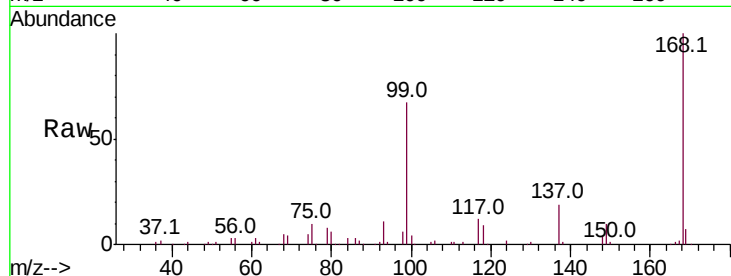
PAV-B33-091720-18-19

Tot Ion:168 Resp: 240597

Ion Ratio Lower Upper

168 100

99 67.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

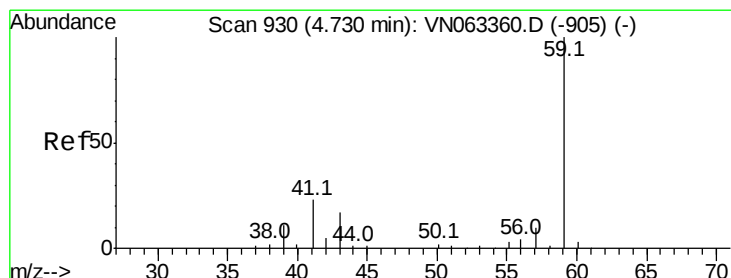
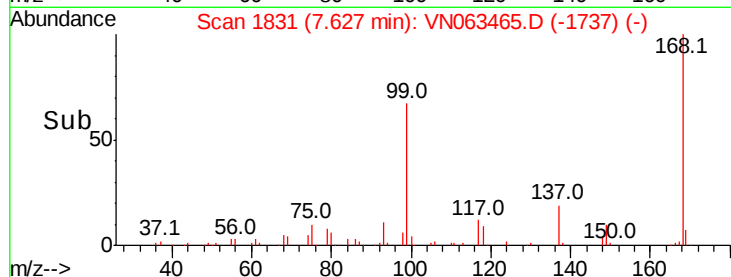
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.331 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN063465.D

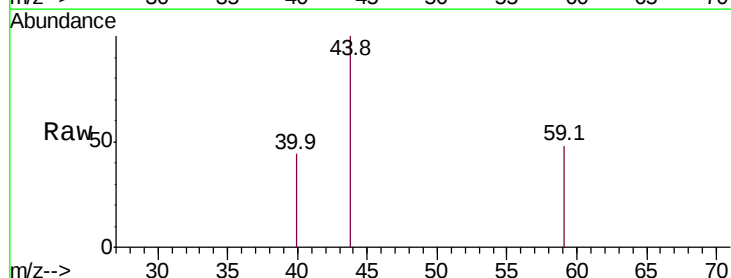
Acq: 18 Sep 2020 18:13

Tgt Ion: 59 Resp: 188

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

300

250

200

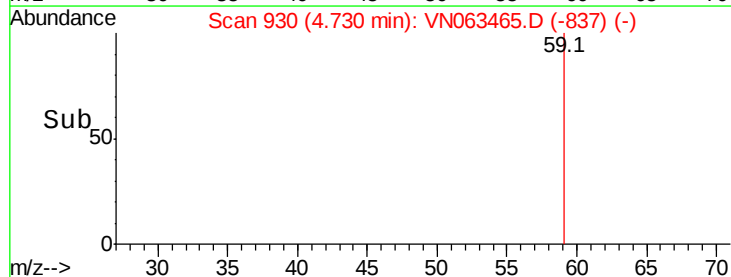
150

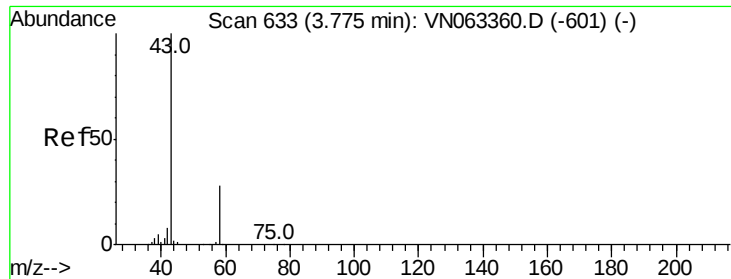
100

50

0

Time--> 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 24.964 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

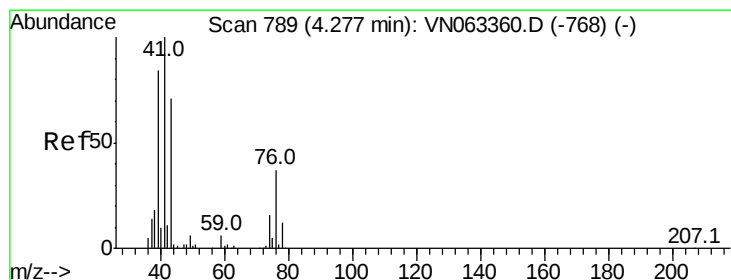
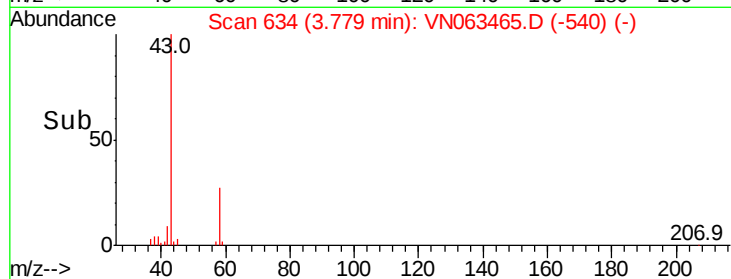
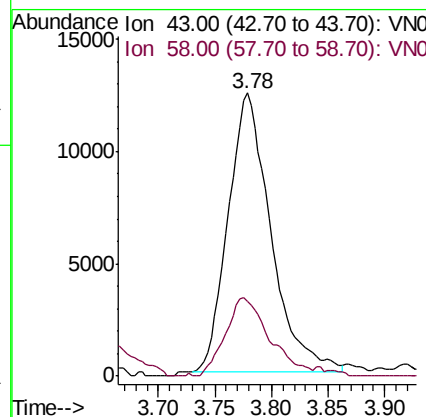
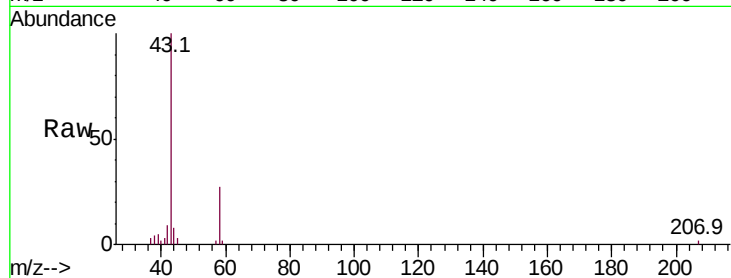
PAV-B33-091720-18-19

Tot Ion: 43 Resp: 32859

Ion Ratio Lower Upper

43 100

58 27.0 22.3 33.5



#18

Methyl Acetate

Concen: 0.425 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN063465.D

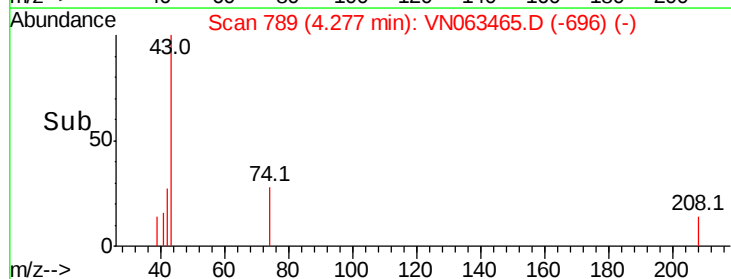
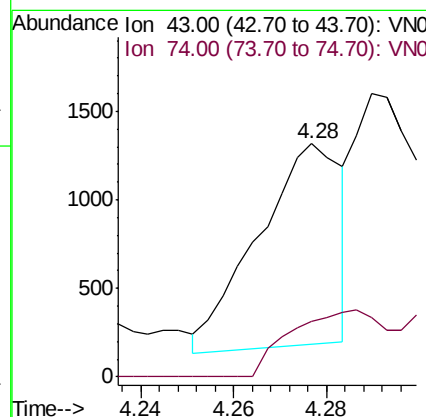
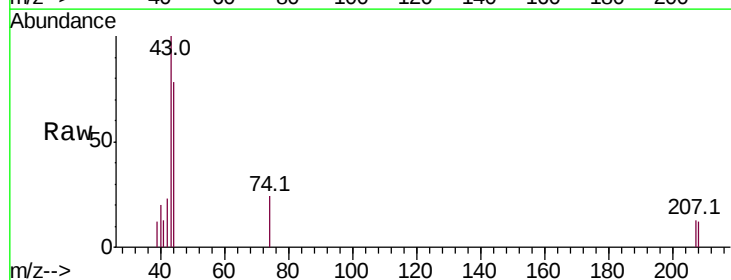
Acq: 18 Sep 2020 18:13

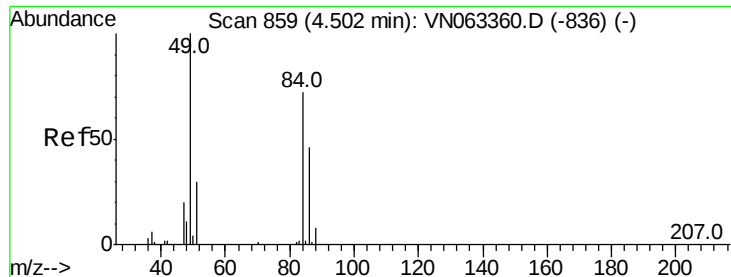
Tgt Ion: 43 Resp: 1420

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#

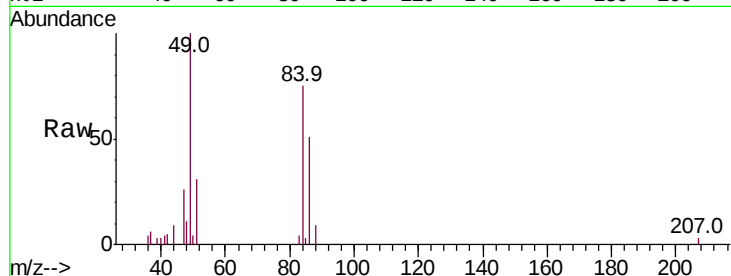




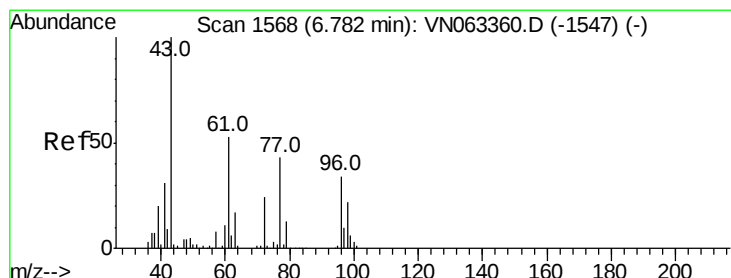
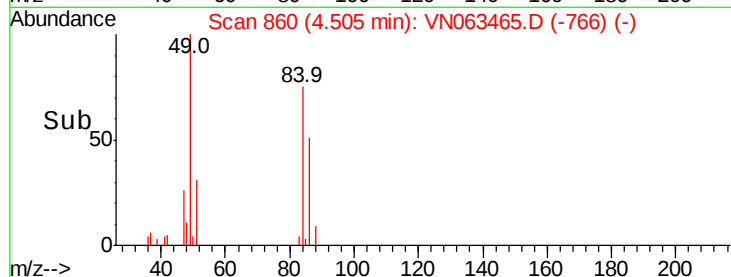
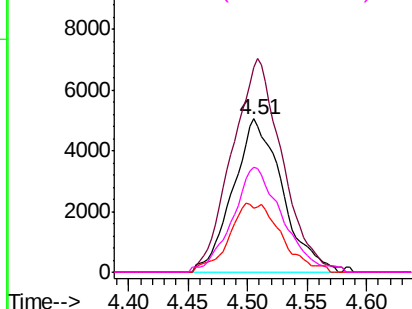
#20
Methvlene Chloride
Concen: 4.348 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063465.D
Acq: 18 Sep 2020 18:13

Instrument :
MSVOA_N
ClientSampleId :
PAV-B33-091720-18-19

Tot Ion: 84 Resp: 14499
Ion Ratio Lower Upper
84 100
49 134.2 110.7 166.1
51 41.9 32.9 49.3
86 68.9 51.1 76.7

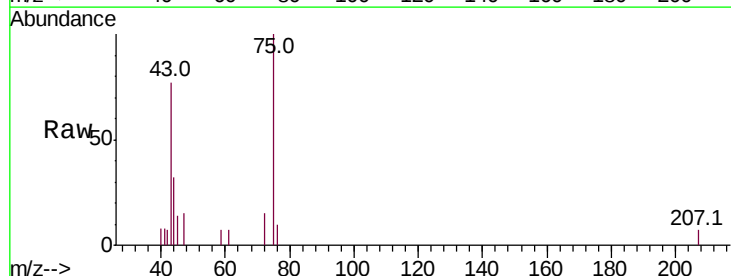


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

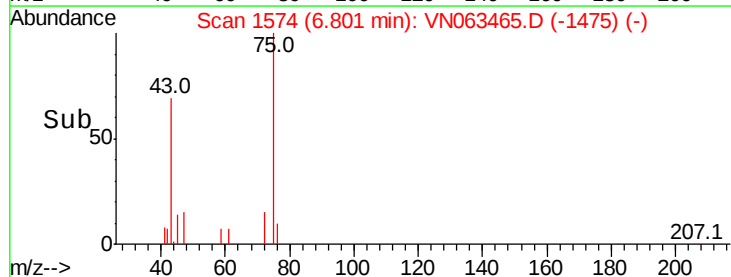
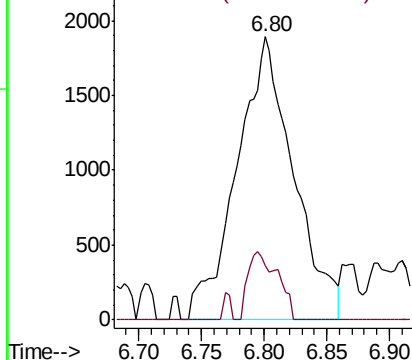


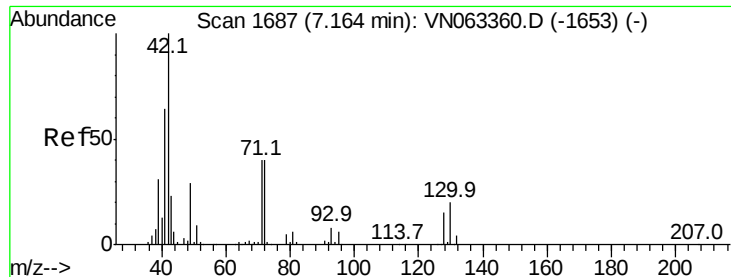
#25
2-Butanone
Concen: 2.929 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063465.D
Acq: 18 Sep 2020 18:13

Tgt Ion: 43 Resp: 5929
Ion Ratio Lower Upper
43 100
72 19.1 19.2 28.8#



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





#29

Tetrahydrofuran

Concen: 0.978 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

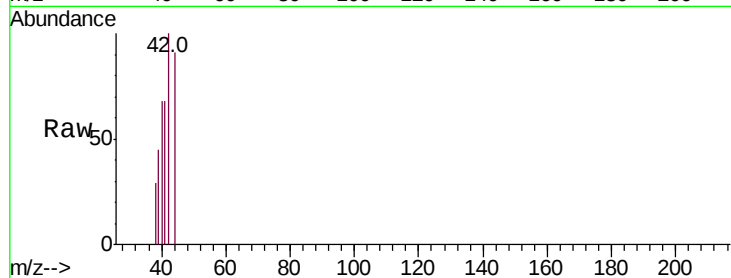
Tot Ion: 42 Resp: 1352

Ion Ratio Lower Upper

42 100

72 2.2 32.1 48.1#

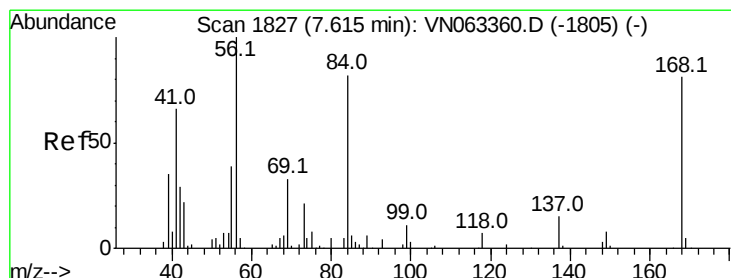
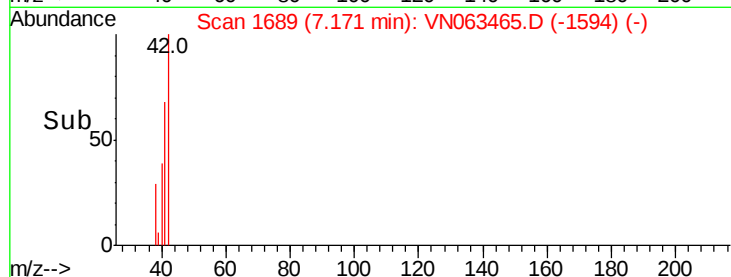
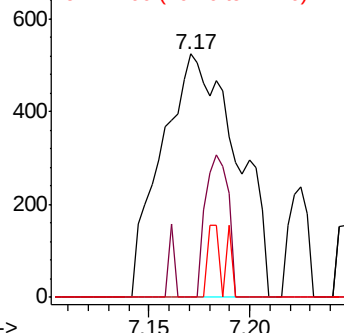
71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.293 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

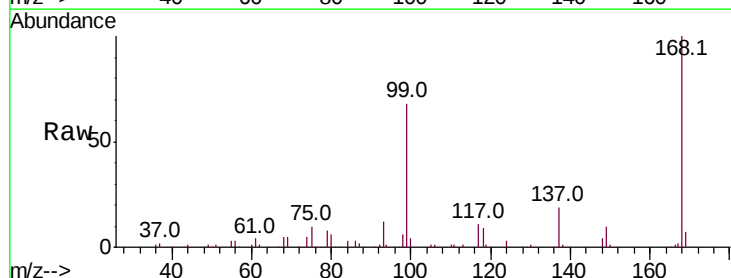
Tgt Ion: 56 Resp: 7316

Ion Ratio Lower Upper

56 100

69 132.4 26.1 39.1#

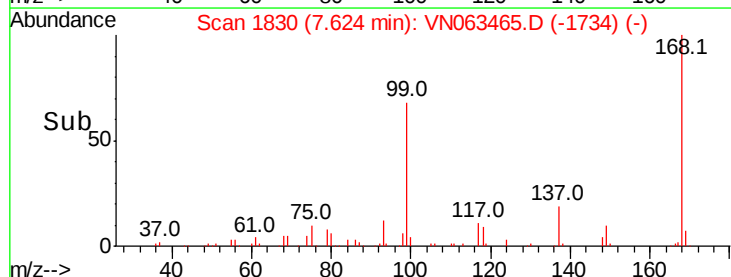
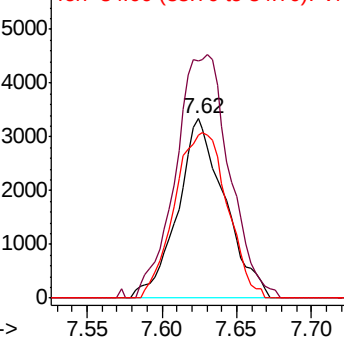
84 91.0 65.4 98.2

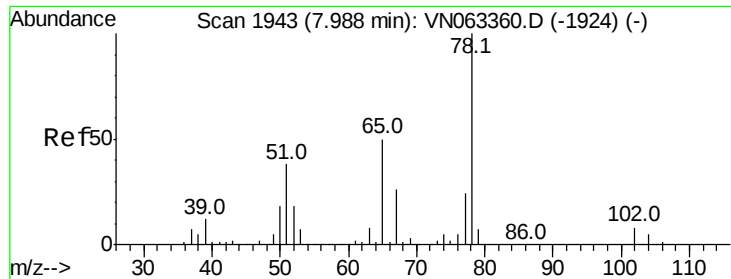


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 48.568 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

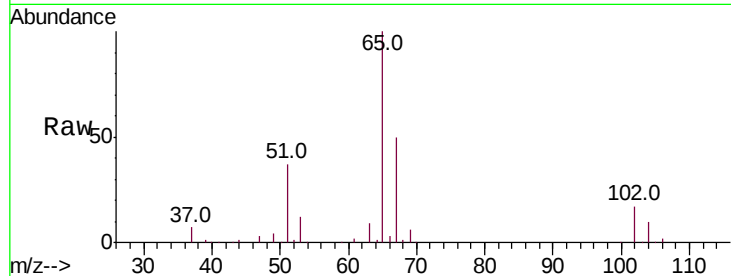
PAV-B33-091720-18-19

Tot Ion: 65 Resp: 198913

Ion Ratio Lower Upper

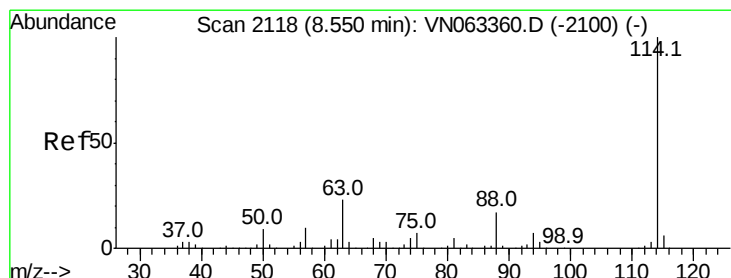
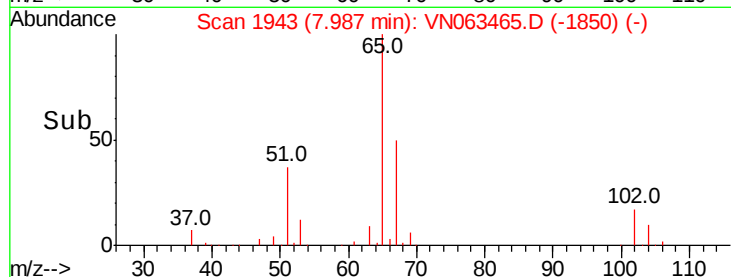
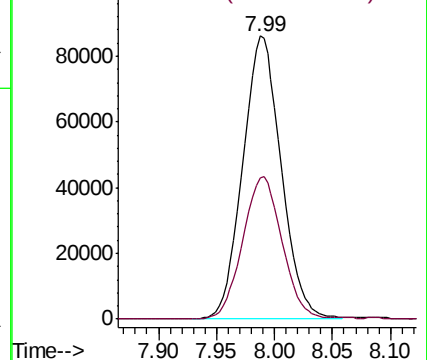
65 100

67 51.6 0.0 104.2



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

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

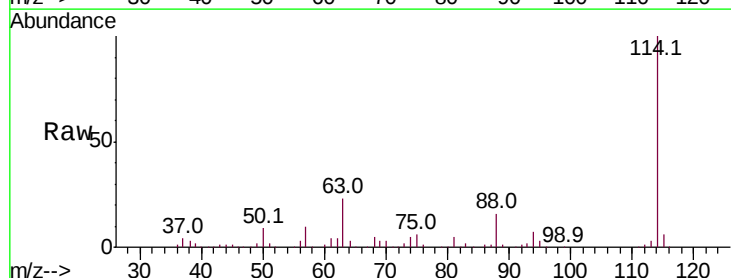
Tgt Ion: 114 Resp: 456053

Ion Ratio Lower Upper

114 100

63 22.7 0.0 46.4

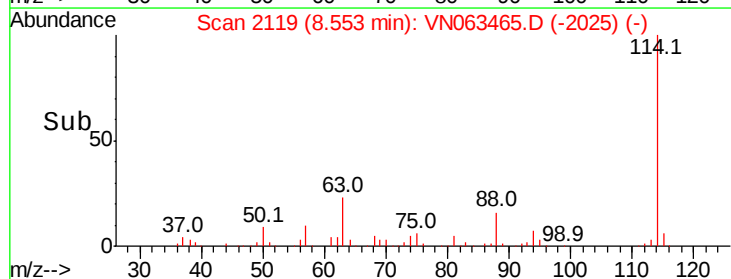
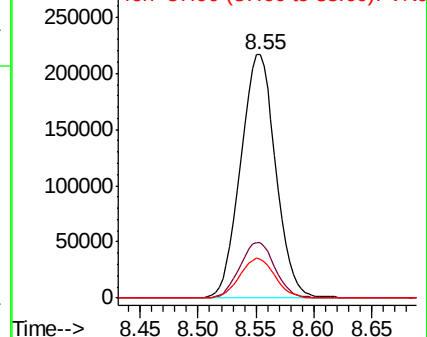
88 15.9 0.0 33.2

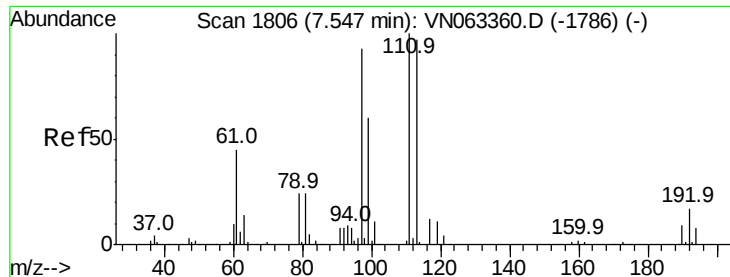


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)

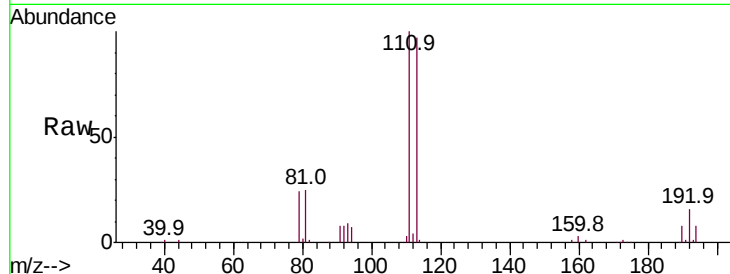




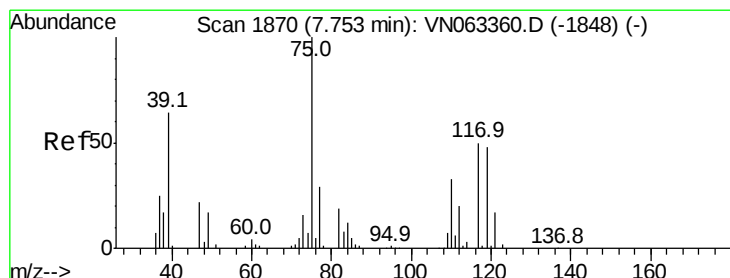
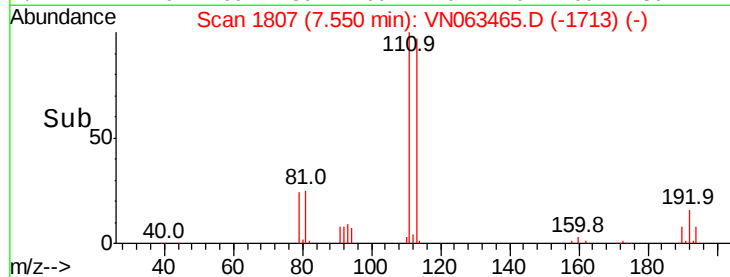
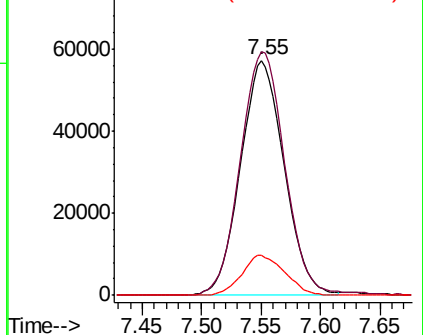
#35
 Dibromofluoromethane
 Concen: 46.101 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063465.D
 Acq: 18 Sep 2020 18:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B33-091720-18-19

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.7	82.9	124.3
192	16.8	13.9	20.9

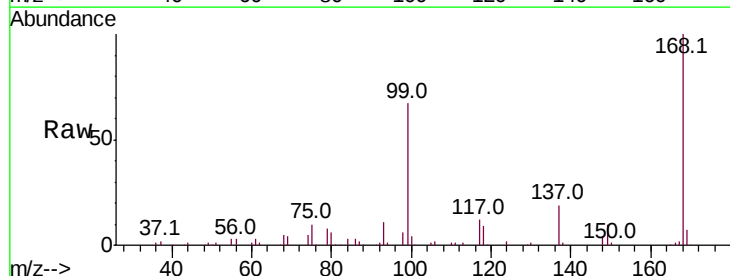


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

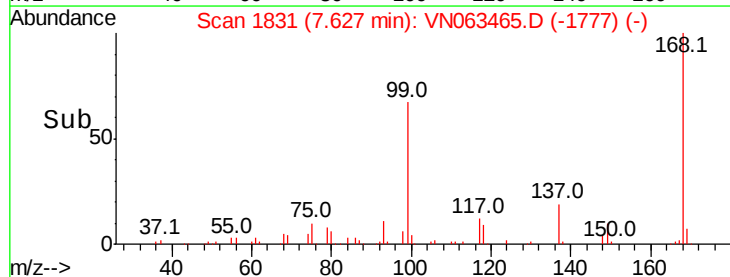
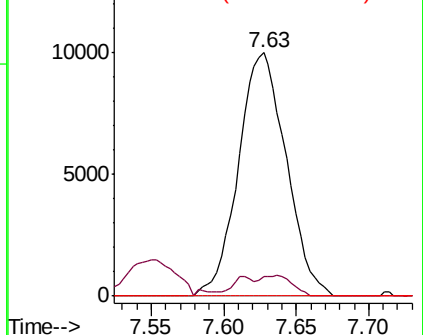


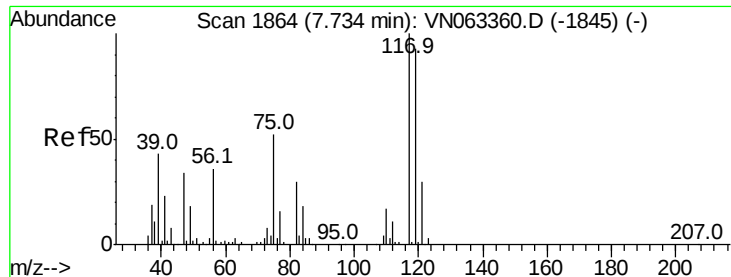
#36
 1,1-Dichloropropene
 Concen: 4.702 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063465.D
 Acq: 18 Sep 2020 18:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.2	16.5	49.5#
77	0.0	24.6	36.8#



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





#38

Carbon Tetrachloride

Concen: 5.412 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

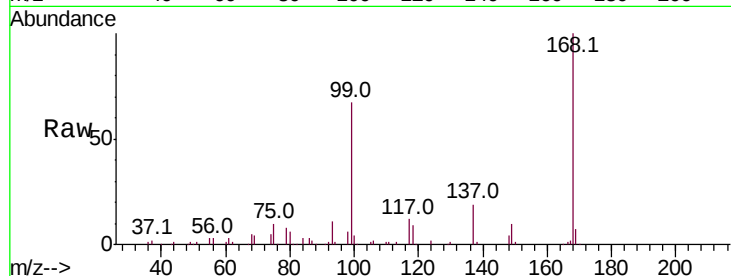
Tot Ion:117 Resp: 26843

Ion Ratio Lower Upper

117 100

119 4.3 74.5 111.7#

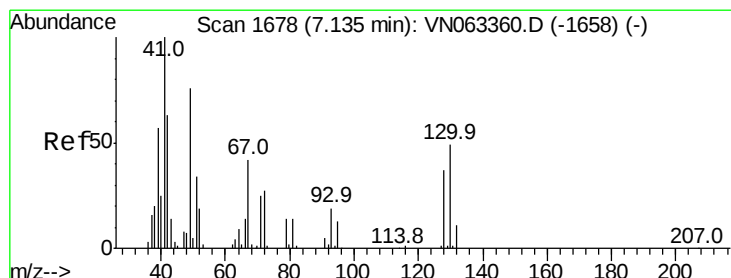
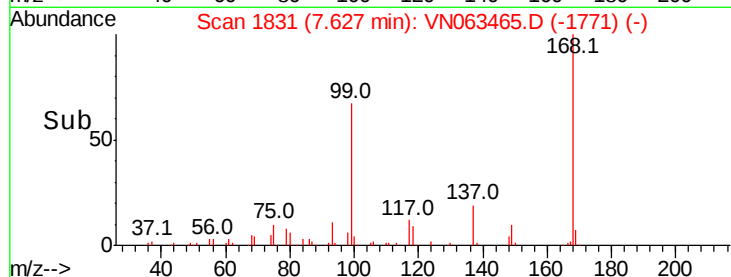
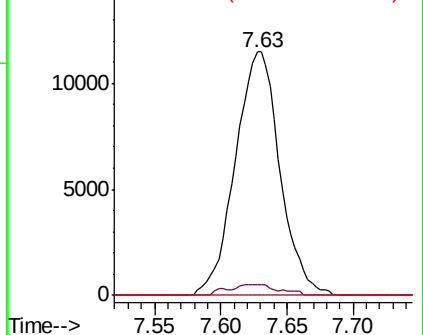
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.251 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.04 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Tgt Ion: 41 Resp: 538

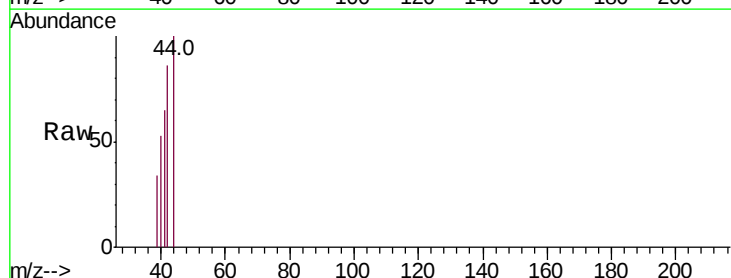
Ion Ratio Lower Upper

41 100

39 41.3 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

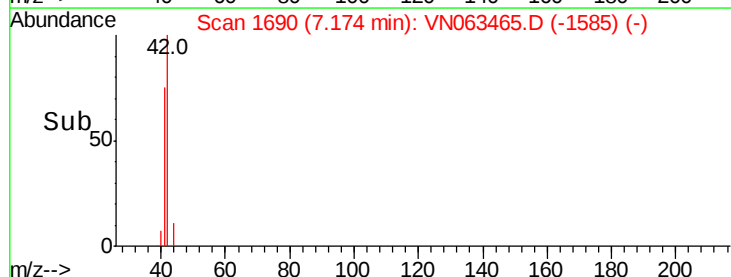
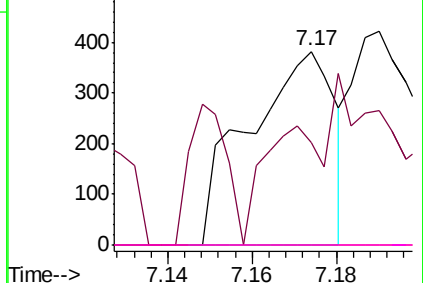


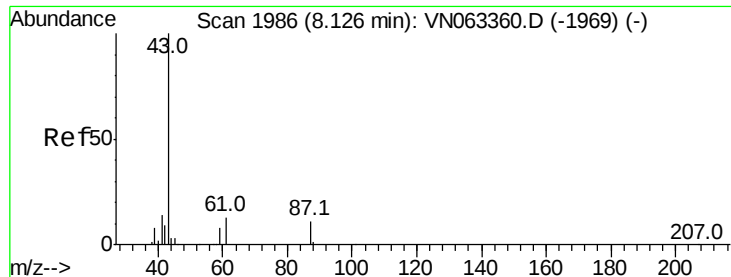
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.511 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

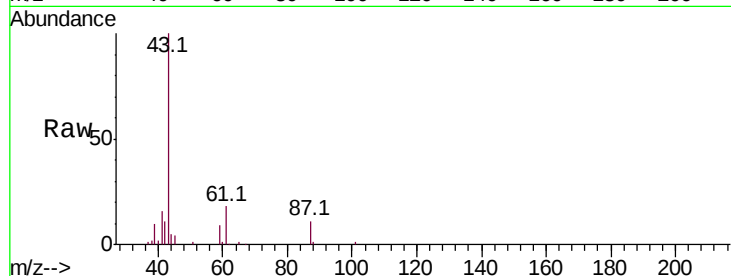
Tot Ion: 43 Resp: 89626

Ion Ratio Lower Upper

43 100

61 17.8 14.2 21.2

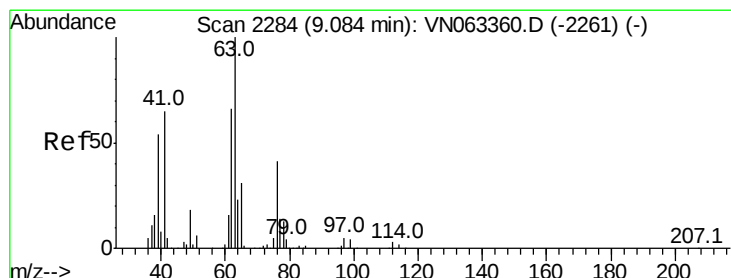
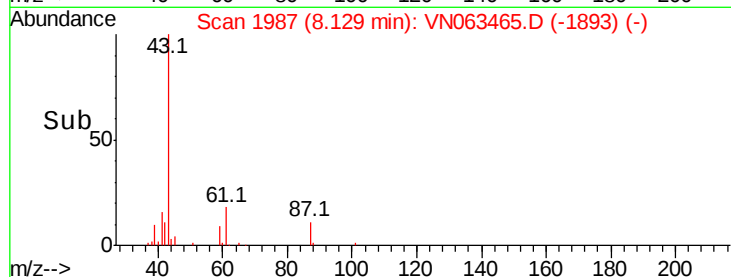
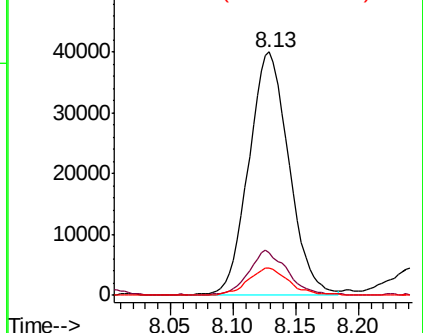
87 11.2 9.0 13.6



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

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

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



#45

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063465.D

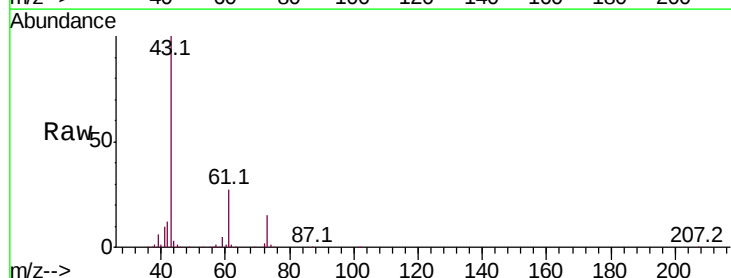
Acq: 18 Sep 2020 18:13

Tgt Ion: 63 Resp: 1678

Ion Ratio Lower Upper

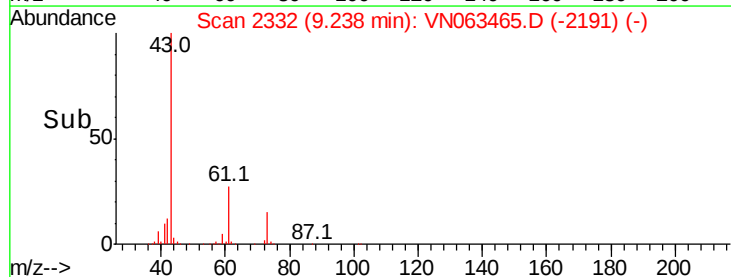
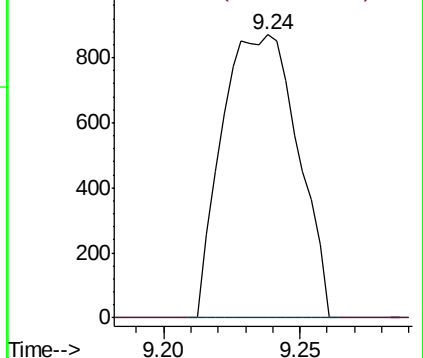
63 100

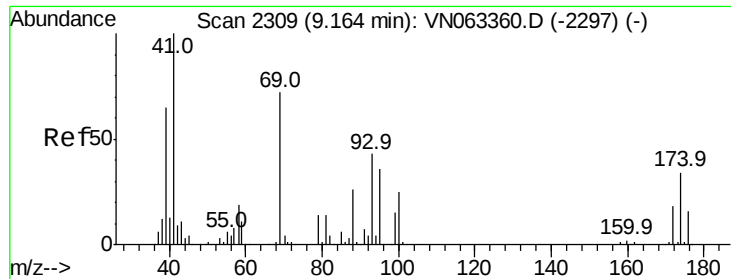
65 0.0 25.0 37.6#



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

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





#48

Methyl methacrylate

Concen: 1.358 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

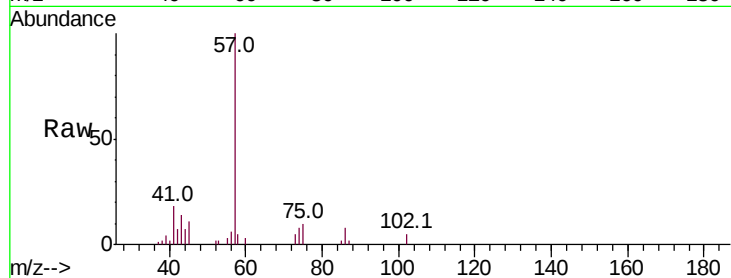
Tot Ion: 41 Resp: 5689

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#

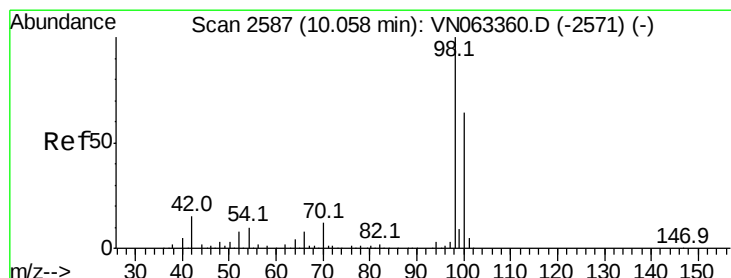
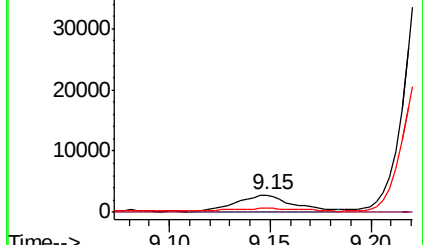
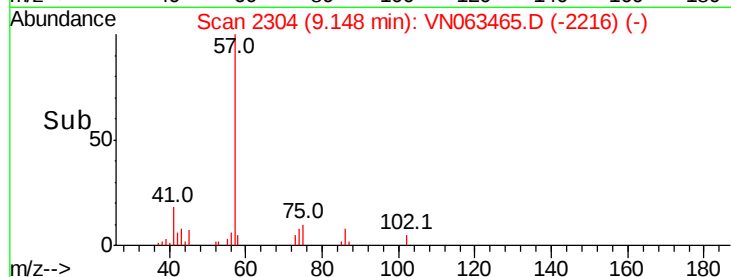


Abundance Ion 41.00 (40.70 to 41.70): VN063360.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2297) (-)

Time-->



#50

Toluene-d8

Concen: 50.032 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063465.D

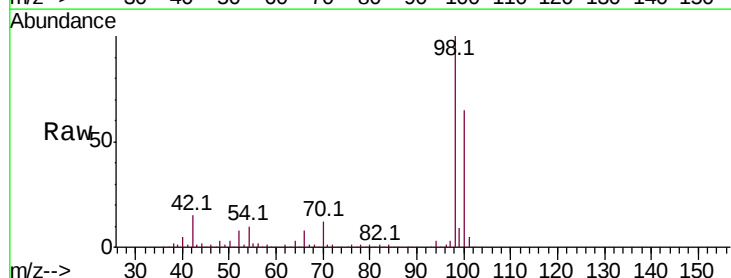
Acq: 18 Sep 2020 18:13

Tgt Ion: 98 Resp: 593953

Ion Ratio Lower Upper

98 100

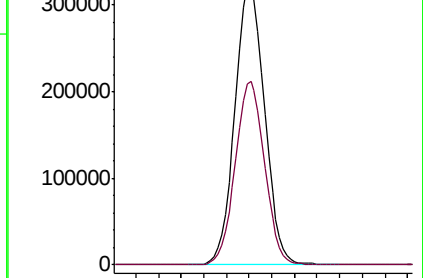
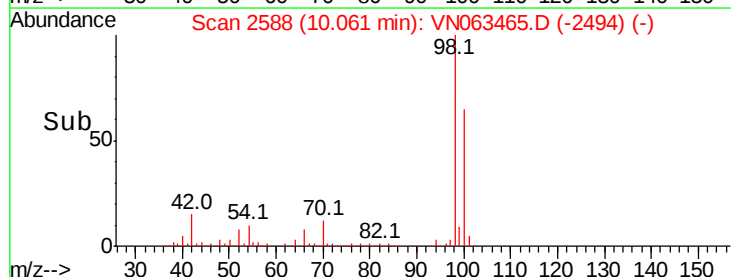
100 64.5 50.7 76.1

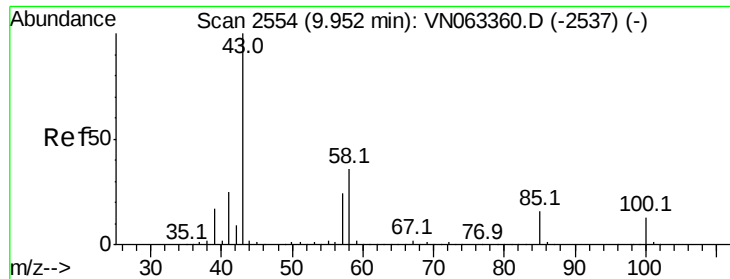


Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 2.366 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

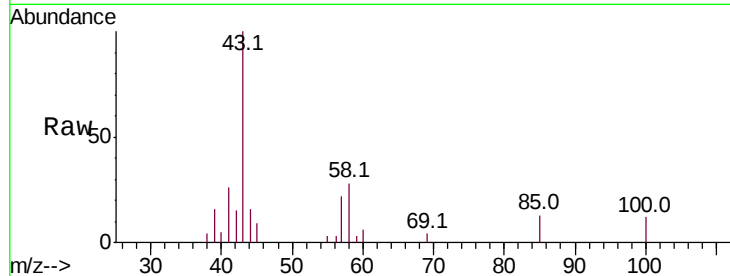
PAV-B33-091720-18-19

Tot Ion: 43 Resp: 11292

Ion Ratio Lower Upper

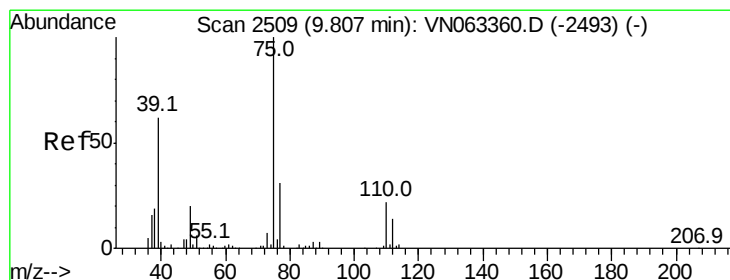
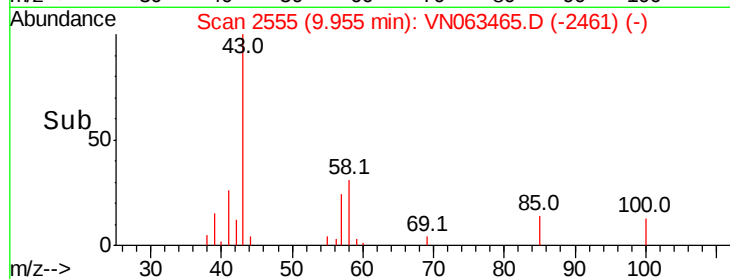
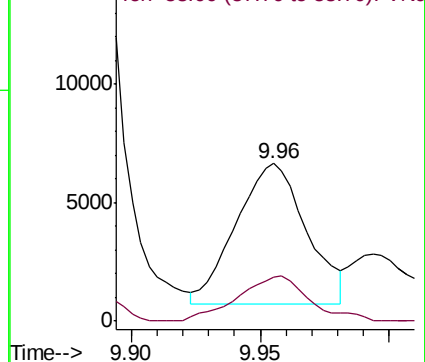
43 100

58 32.6 29.0 43.6



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: 5.984 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

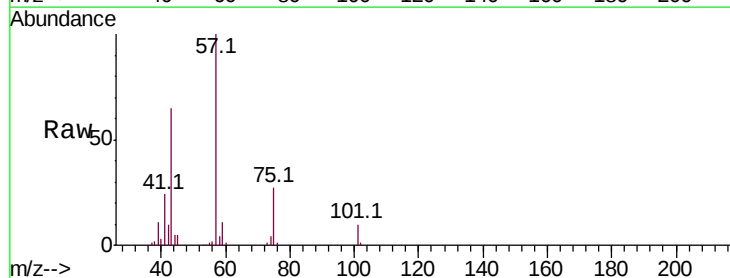
Tgt Ion: 75 Resp: 36346

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

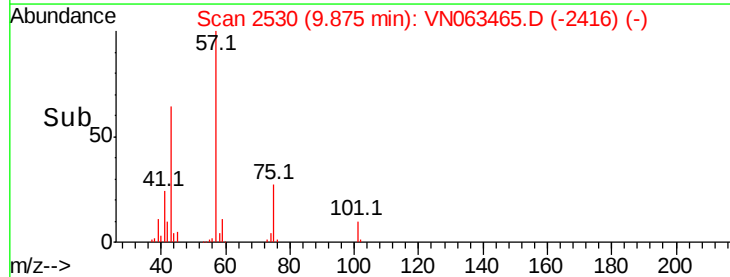
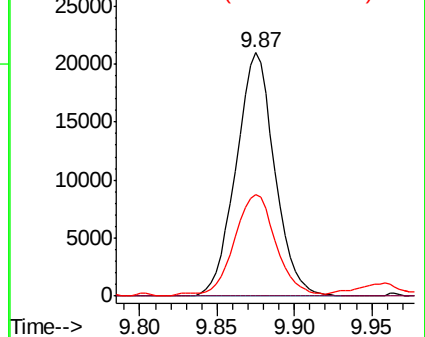
39 40.8 49.8 74.8#

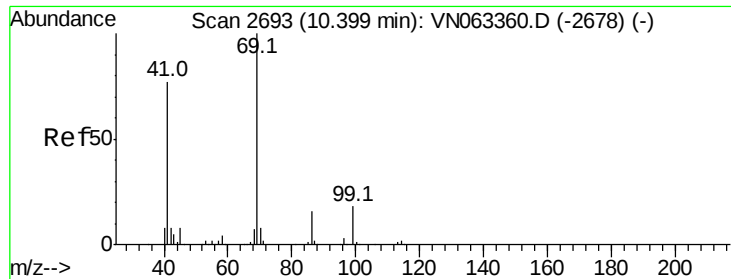


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.278 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

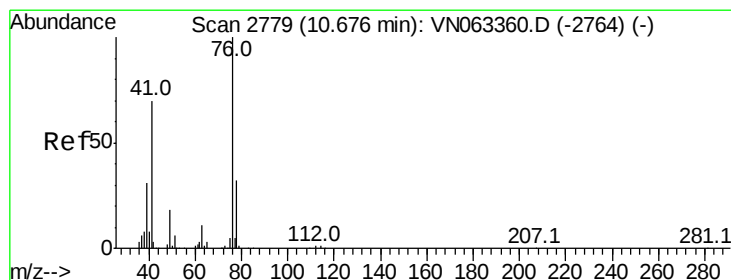
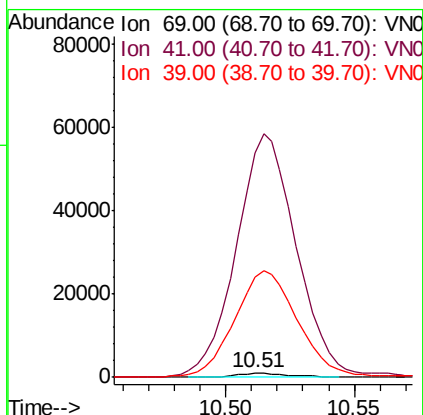
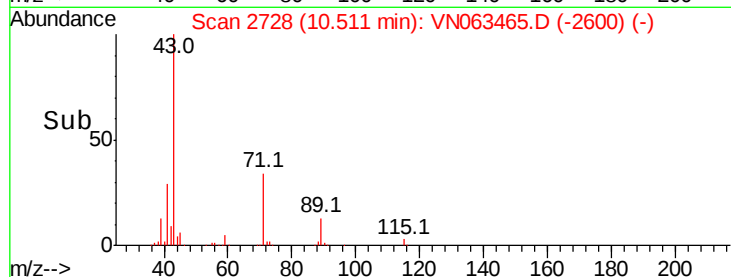
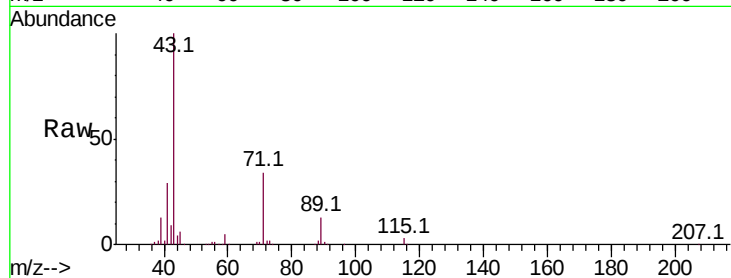
Tot Ion: 69 Resp: 1435

Ion Ratio Lower Upper

69 100

41 6675.6 61.0 91.6#

39 3063.7 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.943 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063465.D

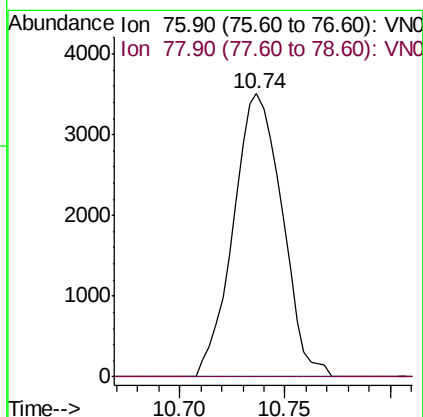
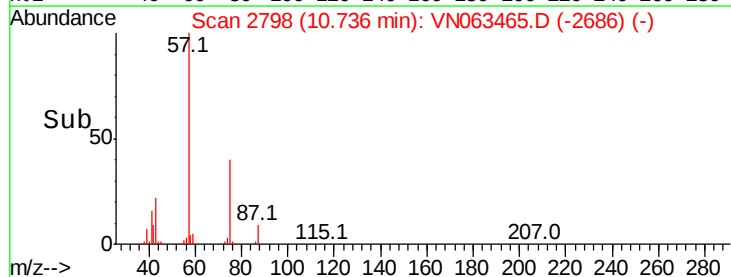
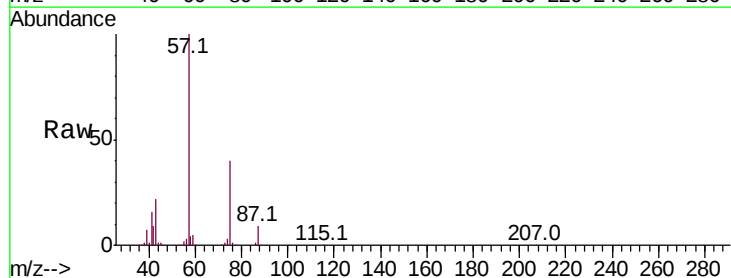
Acq: 18 Sep 2020 18:13

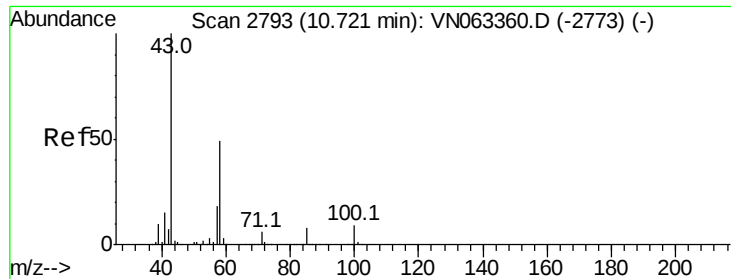
Tgt Ion: 76 Resp: 5631

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 26.720 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

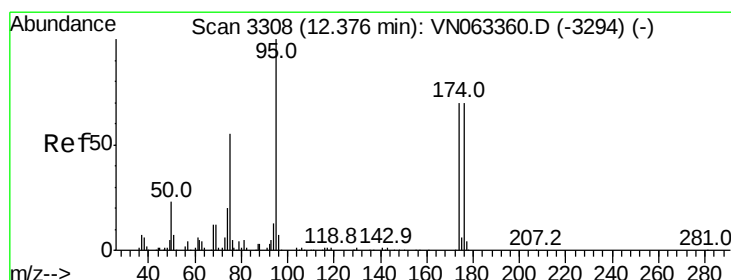
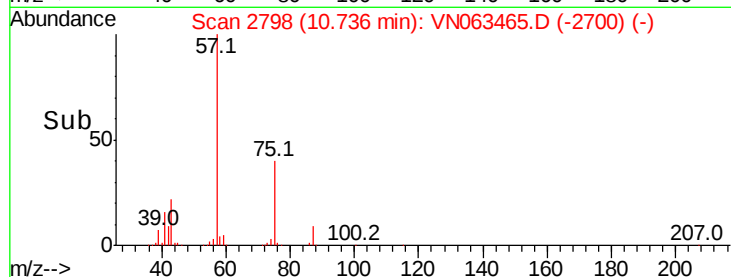
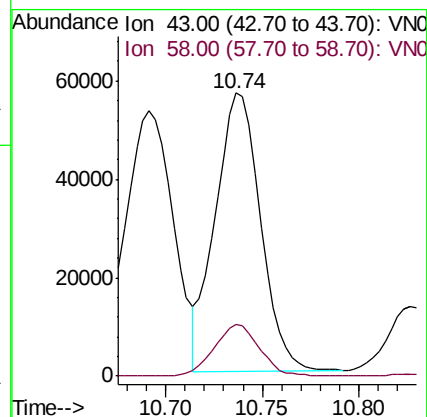
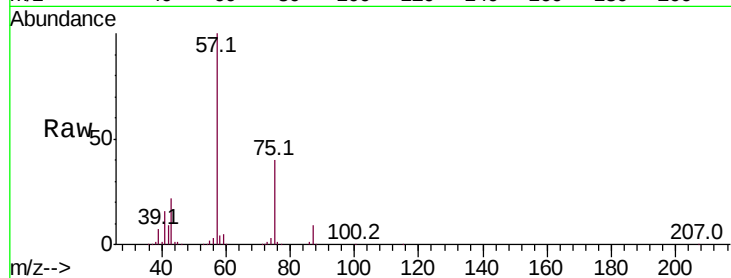
PAV-B33-091720-18-19

Tot Ion: 43 Resp: 92404

Ion Ratio Lower Upper

43 100

58 18.7 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 54.367 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

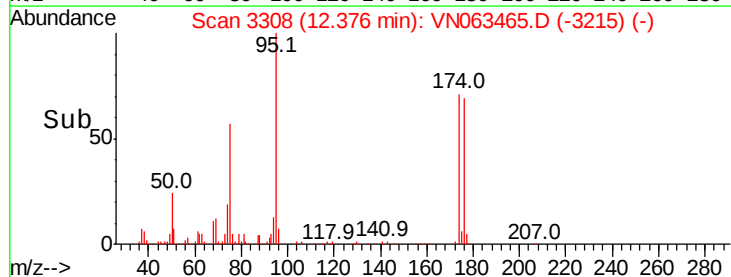
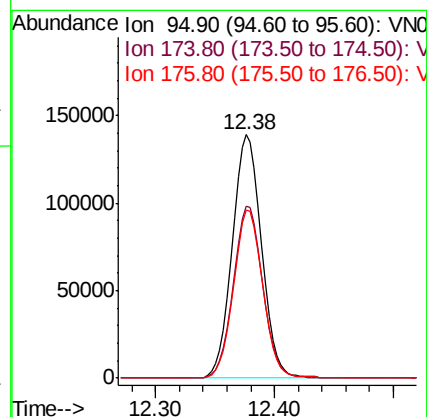
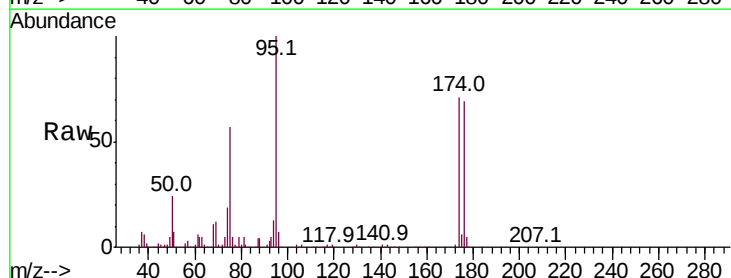
Tgt Ion: 95 Resp: 236599

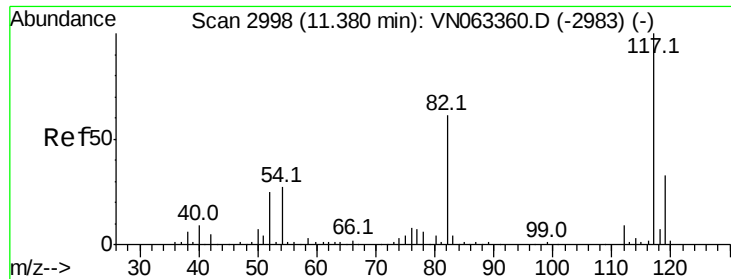
Ion Ratio Lower Upper

95 100

174 71.1 0.0 140.8

176 68.8 0.0 137.6

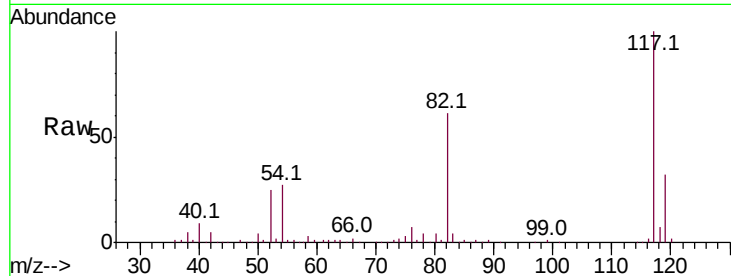




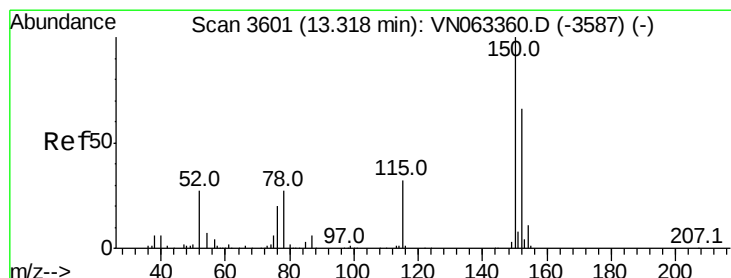
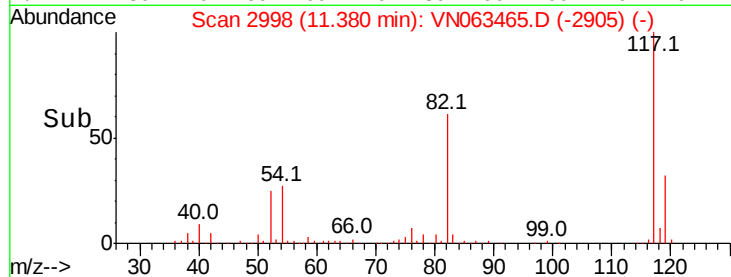
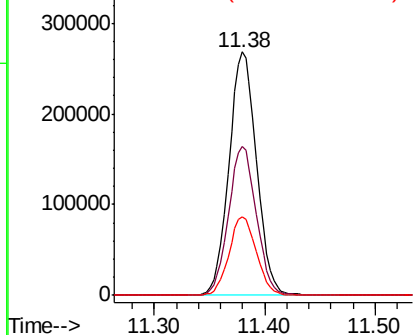
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063465.D
Acq: 18 Sep 2020 18:13

Instrument :
MSVOA_N
ClientSampleId :
PAV-B33-091720-18-19

Tot Ion:117 Resp: 465592
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 32.5 26.2 39.4

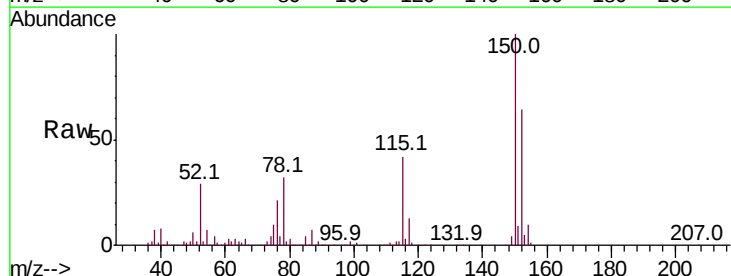


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

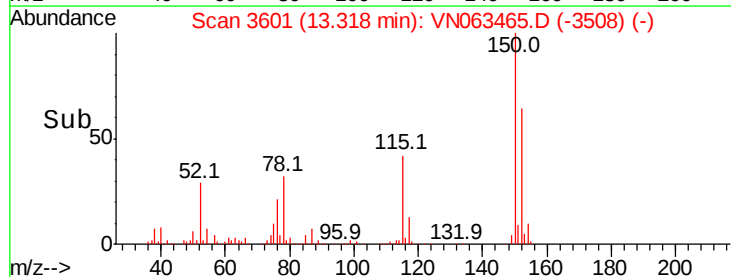
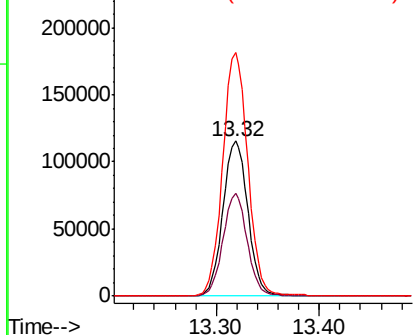


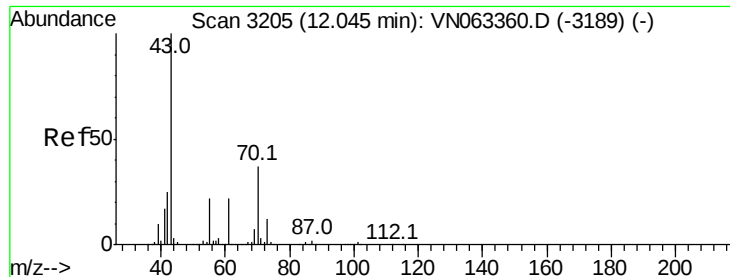
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063465.D
Acq: 18 Sep 2020 18:13

Tgt Ion:152 Resp: 196028
Ion Ratio Lower Upper
152 100
115 64.2 32.2 96.6
150 157.5 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.546 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

Tot Ion: 43 Resp: 4063

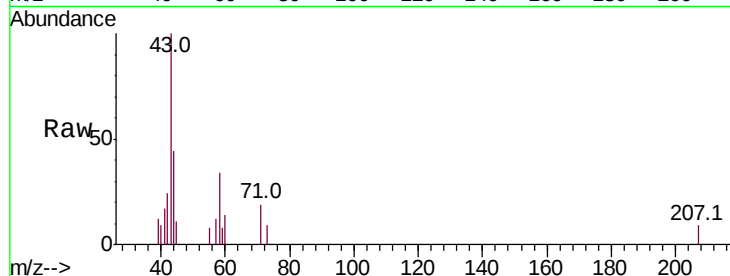
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.9 17.7 26.5#

61 0.0 17.4 26.2#

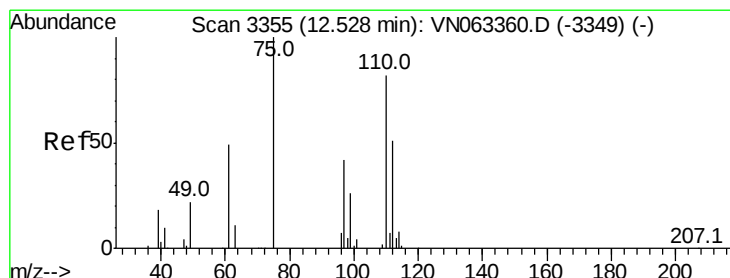
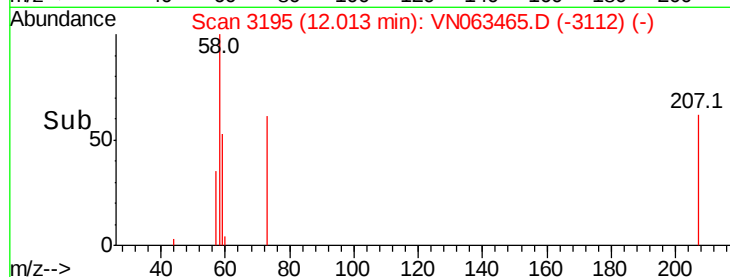
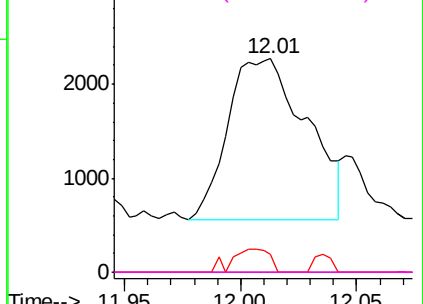


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.260 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063465.D

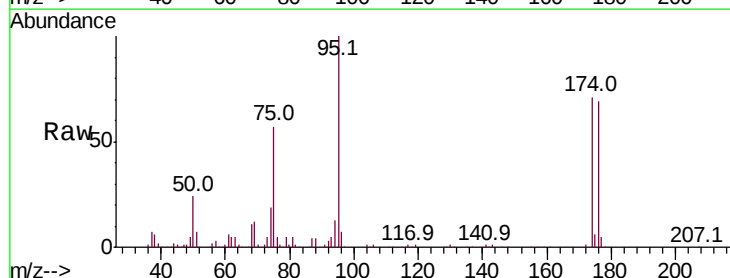
Acq: 18 Sep 2020 18:13

Tgt Ion: 75 Resp: 132265

Ion Ratio Lower Upper

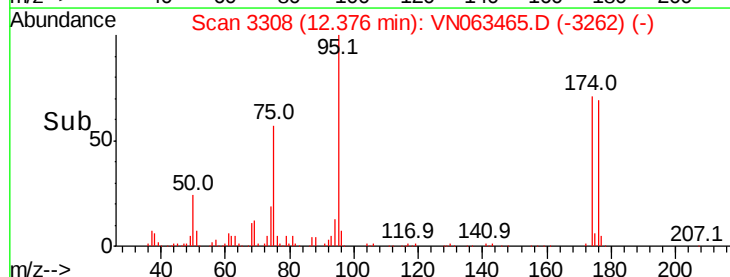
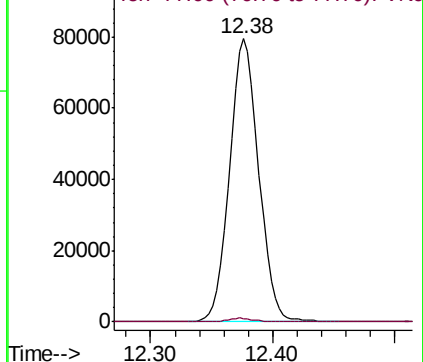
75 100

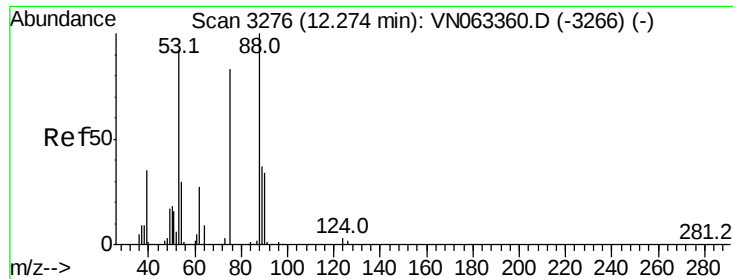
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.737 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063465.D

Acq: 18 Sep 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

PAV-B33-091720-18-19

Tot Ion: 75 Resp: 132265

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

