

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092820\
 Data File : VN063710.D
 Acq On : 28 Sep 2020 17:09
 Operator : JC/MD
 Sample : L4136-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAV-B26-092420-0-1

Quant Time: Sep 29 00:40:50 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	206664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	388195	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	408091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	163407	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	177814	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	7.55	113	130208	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
50) Toluene-d8	10.06	98	513169	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.38	95	197733	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	

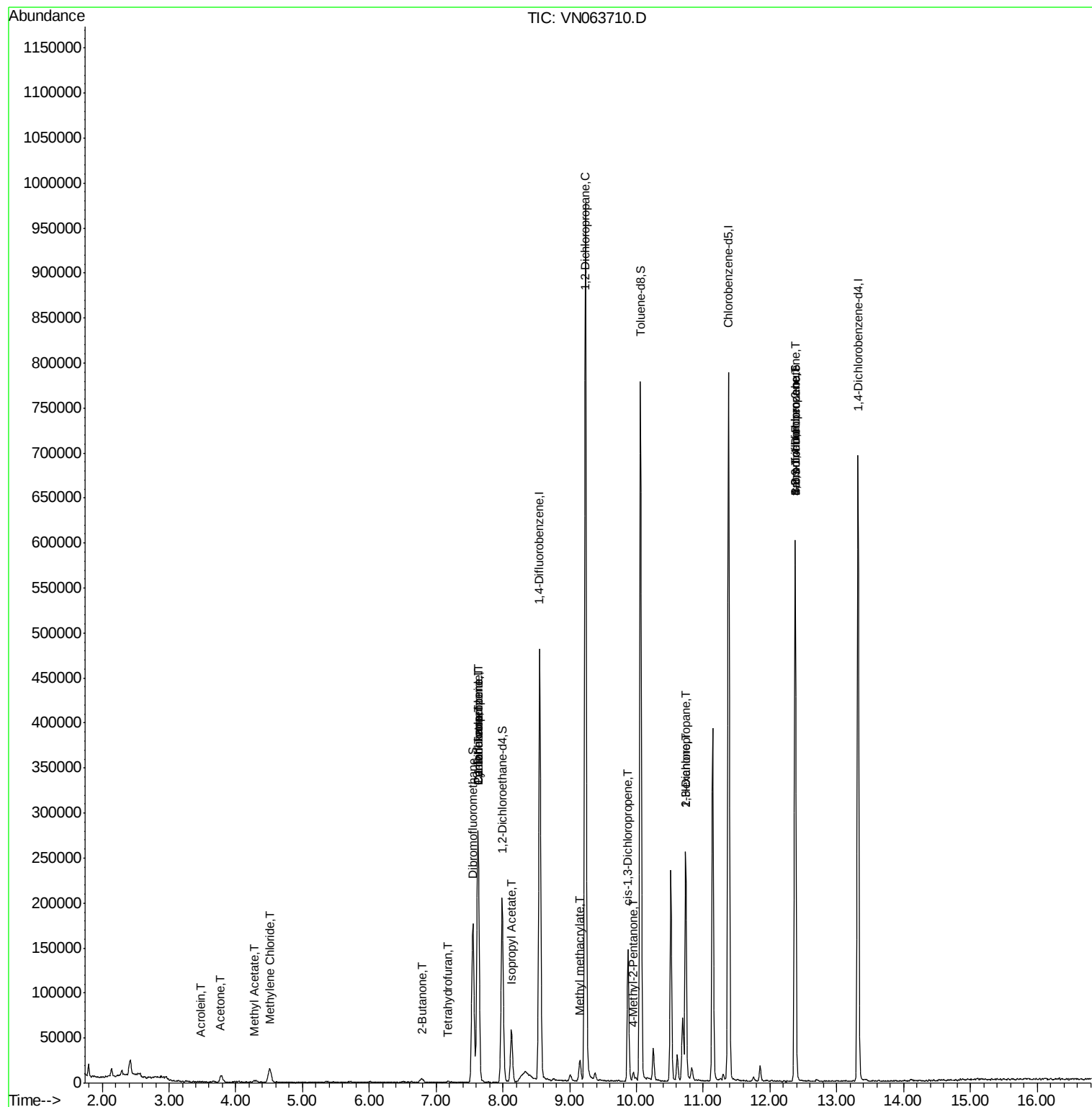
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.49	56	61	0.338	ug/l #	13
16) Acetone	3.78	43	14225	12.582	ug/l	96
18) Methyl Acetate	4.28	43	1477	0.515	ug/l #	90
20) Methylene Chloride	4.51	84	11023	3.848	ug/l	95
25) 2-Butanone	6.79	43	2827	1.626	ug/l	95
29) Tetrahydrofuran	7.16	42	1131	0.952	ug/l #	46
31) Cyclohexane	7.62	56	5945	1.224	ug/l #	8
36) 1,1-Dichloropropene	7.63	75	20080	4.855	ug/l #	50
38) Carbon Tetrachloride	7.63	117	22972	5.441	ug/l #	17
43) Isopropyl Acetate	8.13	43	68265	9.406	ug/l	98
45) 1,2-Dichloropropane	9.23	63	860	0.267	ug/l #	43
48) Methyl methacrylate	9.15	41	4524	1.269	ug/l #	40
51) 4-Methyl-2-Pentanone	9.96	43	7126	1.754	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	22786	4.407	ug/l #	69
57) 1,3-Dichloropropane	10.74	76	2534	0.498	ug/l #	42
59) 2-Hexanone	10.74	43	38388	13.041	ug/l #	53
71) Bromoform	12.37	173	823	0.348	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	112105	27.718	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	112105	75.991	ug/l #	7

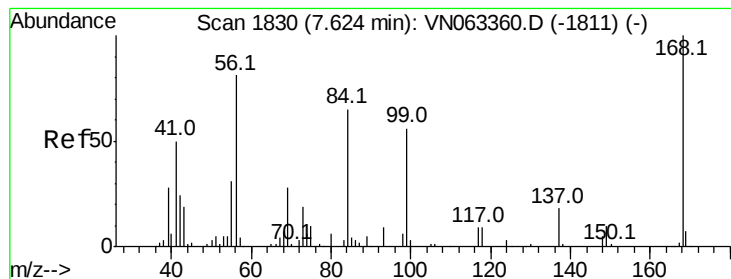
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

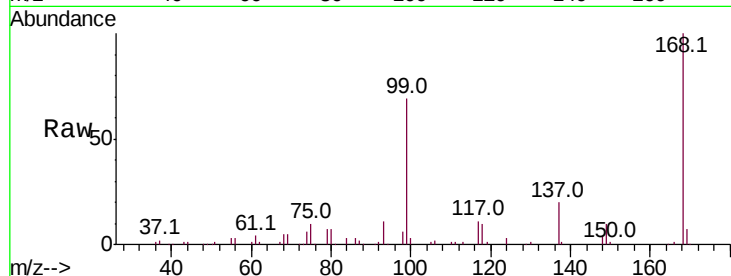
PAV-B26-092420-0-1

Tot Ion:168 Resp: 206664

Ion Ratio Lower Upper

168 100

99 68.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

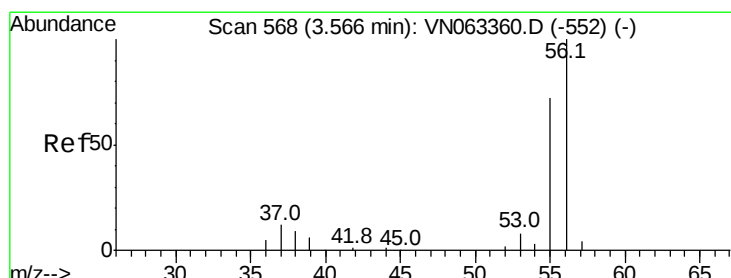
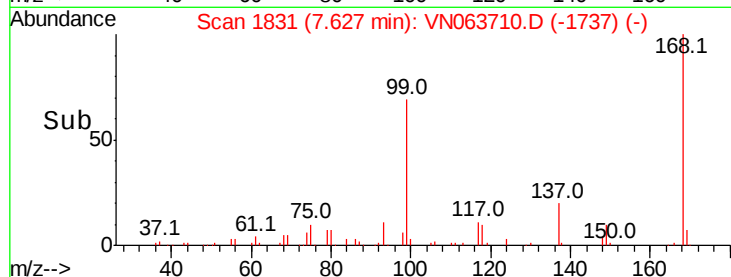
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#13

Acrolein

Concen: 0.338 ug/l

RT: 3.49 min Scan# 544

Delta R.T. -0.08 min

Lab File: VN063710.D

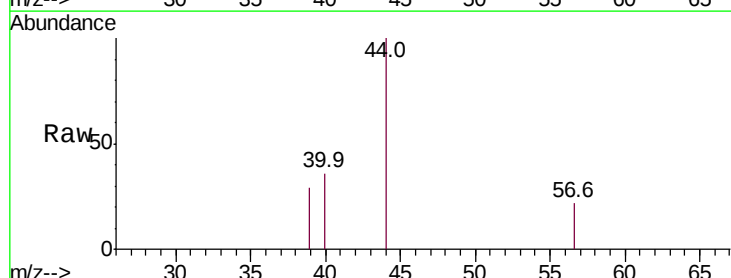
Acq: 28 Sep 2020 17:09

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.49

150

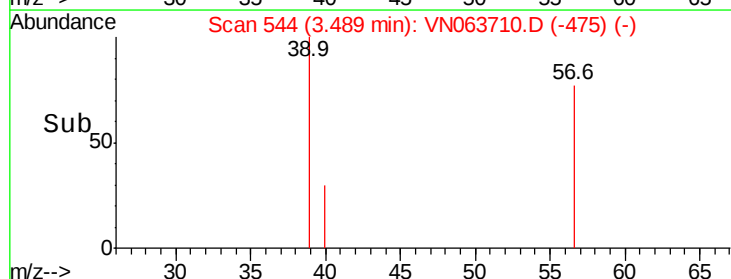
100

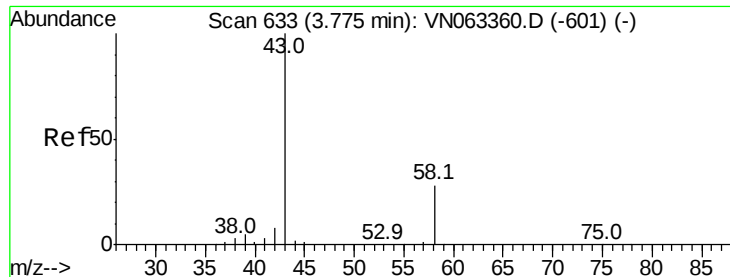
50

0

3.48 3.49 3.50

Time-->





#16

Acetone

Concen: 12.582 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

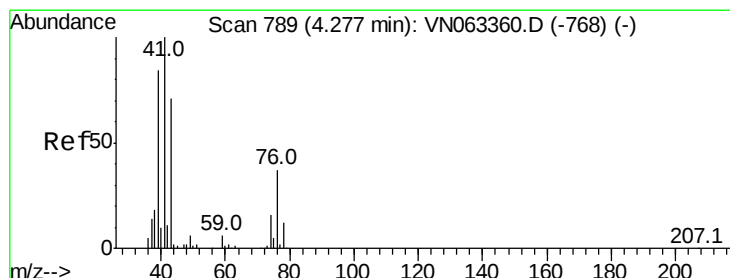
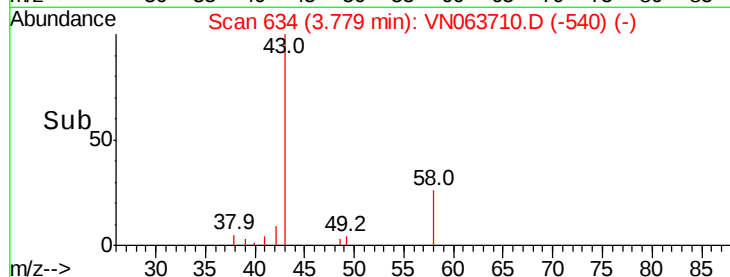
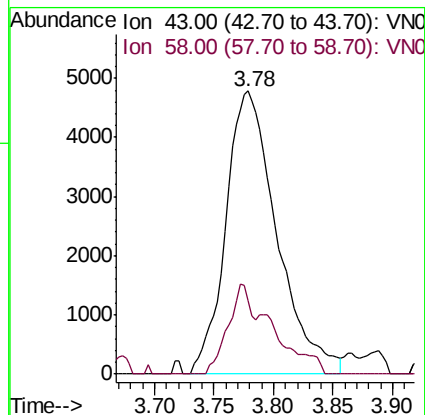
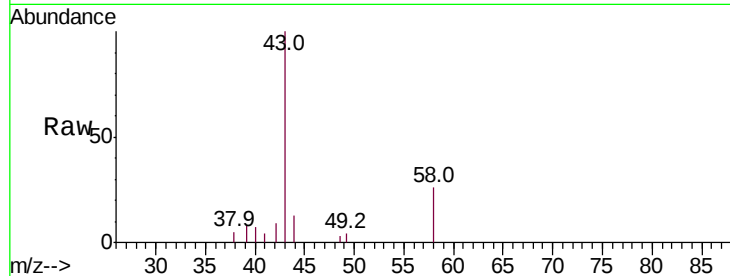
PAV-B26-092420-0-1

Tot Ion: 43 Resp: 14225

Ion Ratio Lower Upper

43 100

58 26.0 22.3 33.5



#18

Methyl Acetate

Concen: 0.515 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063710.D

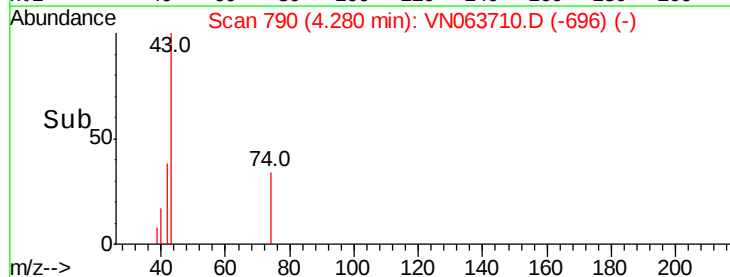
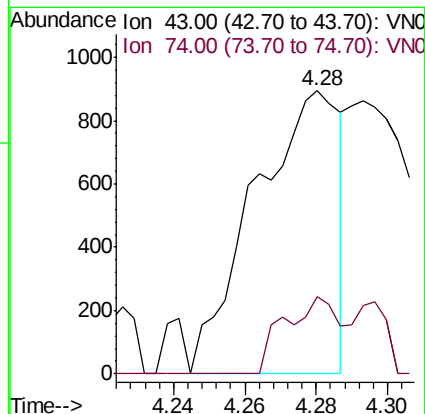
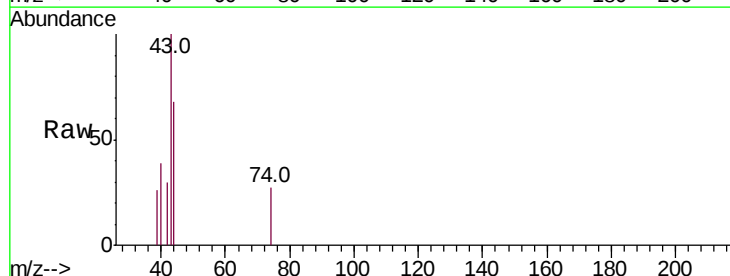
Acq: 28 Sep 2020 17:09

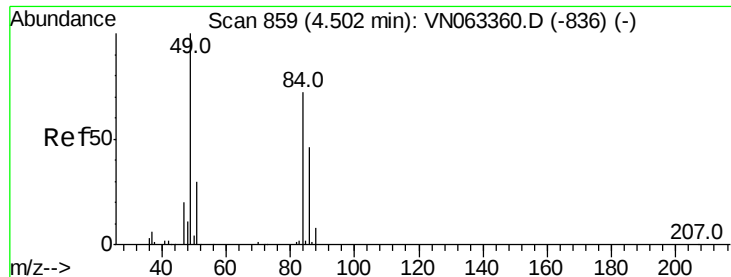
Tgt Ion: 43 Resp: 1477

Ion Ratio Lower Upper

43 100

74 16.9 17.4 26.2#

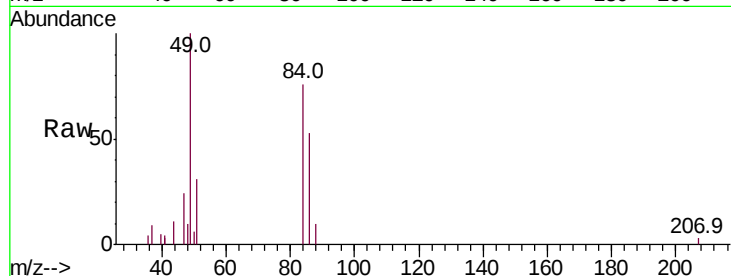




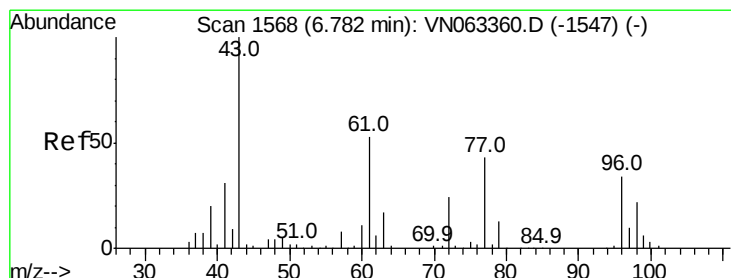
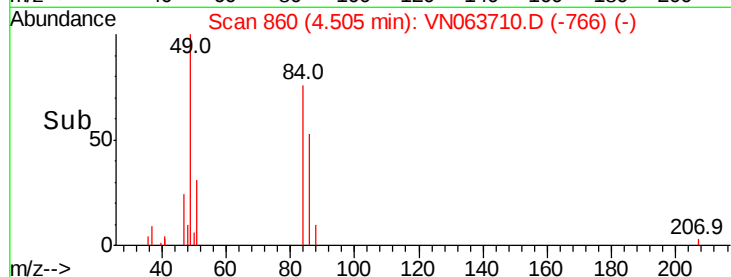
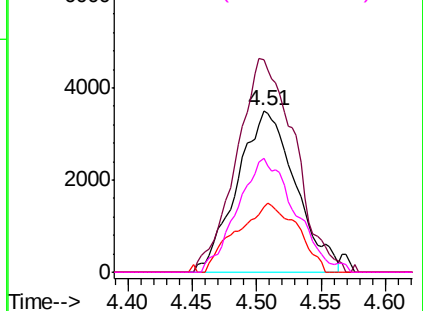
#20
Methvlene Chloride
Concen: 3.848 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :
PAV-B26-092420-0-1

Tot Ion:	84	Resp:	11023
Ion	Ratio	Lower	Upper
84	100		
49	131.7	110.7	166.1
51	40.6	32.9	49.3
86	70.4	51.1	76.7

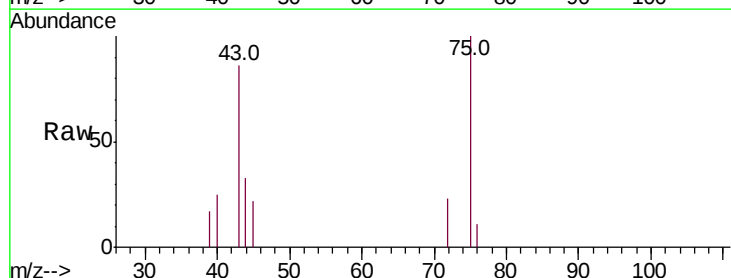


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

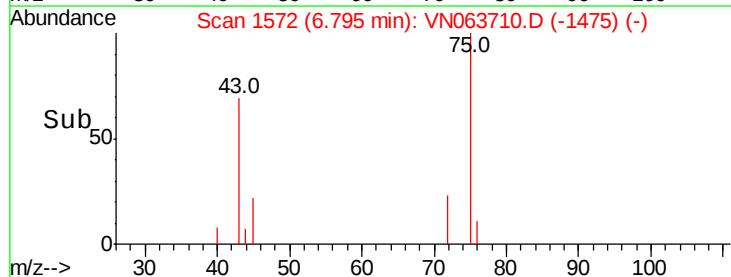
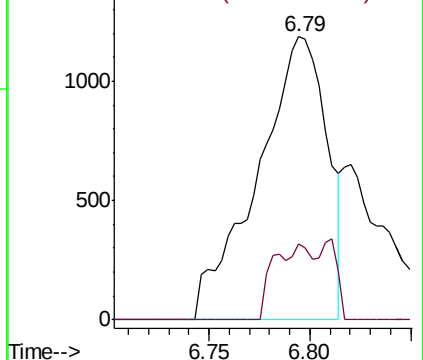


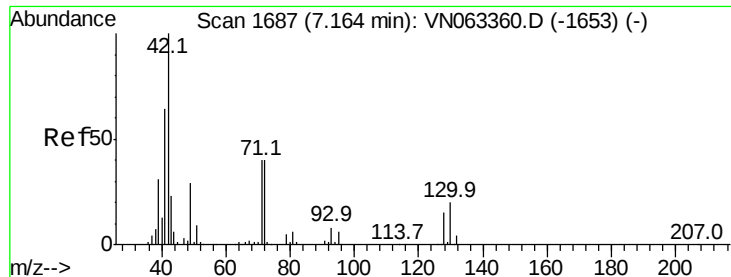
#25
2-Butanone
Concen: 1.626 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

Tgt Ion:	43	Resp:	2827
Ion	Ratio	Lower	Upper
43	100		
72	26.6	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: 0.952 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

PAV-B26-092420-0-1

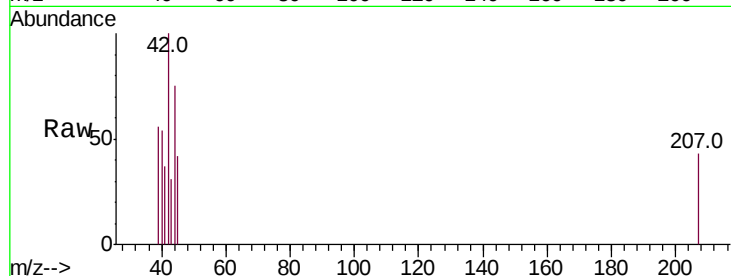
Tot Ion: 42 Resp: 1131

Ion Ratio Lower Upper

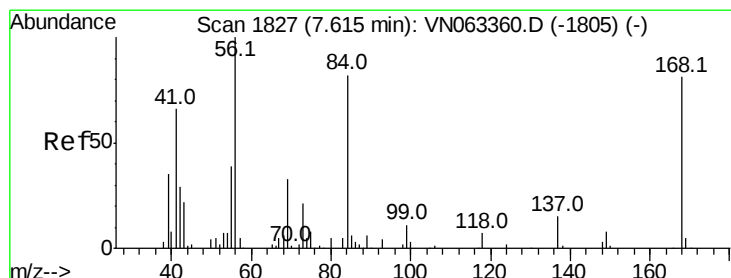
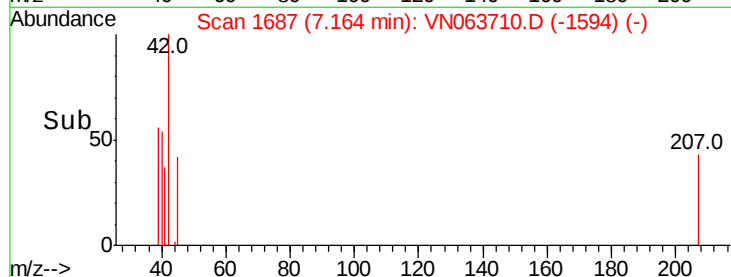
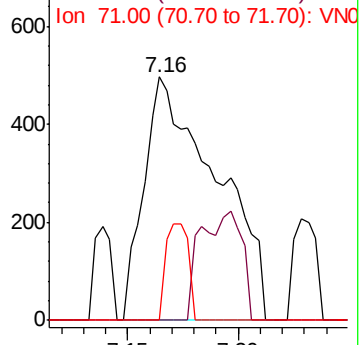
42 100

72 0.0 32.1 48.1#

71 12.4 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN063710.D (-1653) (-)



#31

Cyclohexane

Concen: 1.224 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

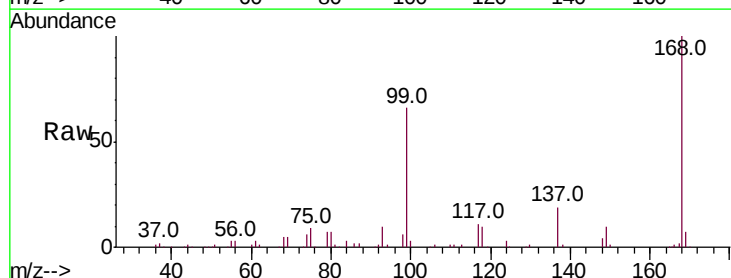
Tgt Ion: 56 Resp: 5945

Ion Ratio Lower Upper

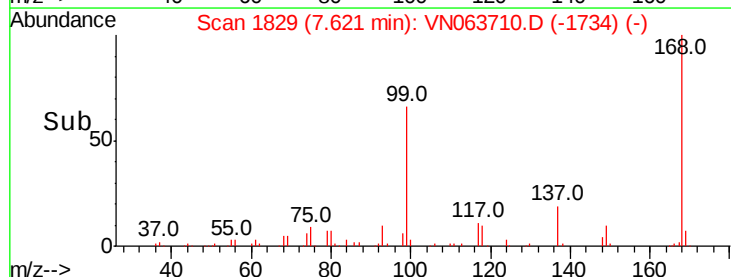
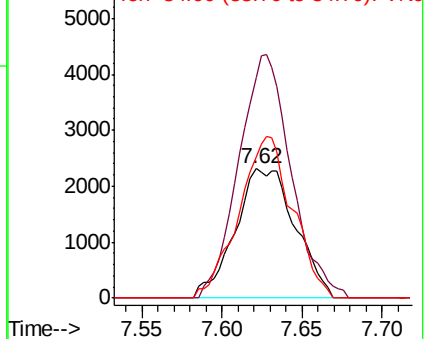
56 100

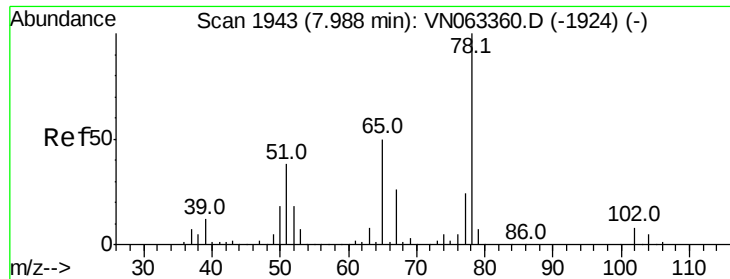
69 170.9 26.1 39.1#

84 108.9 65.4 98.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063710.D (-1734) (-)

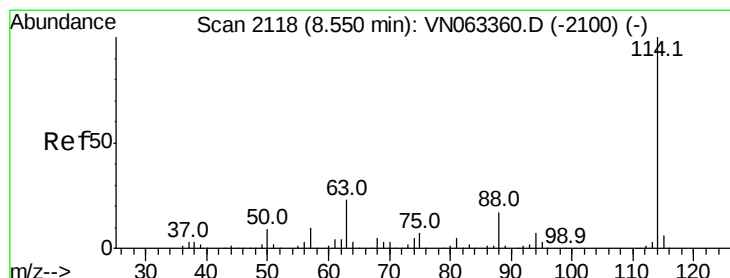
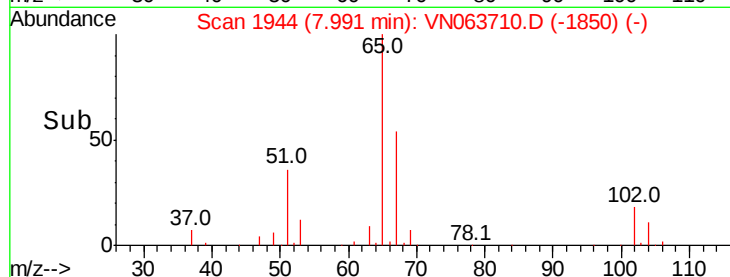
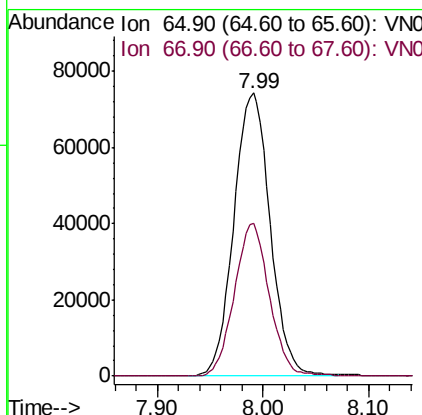
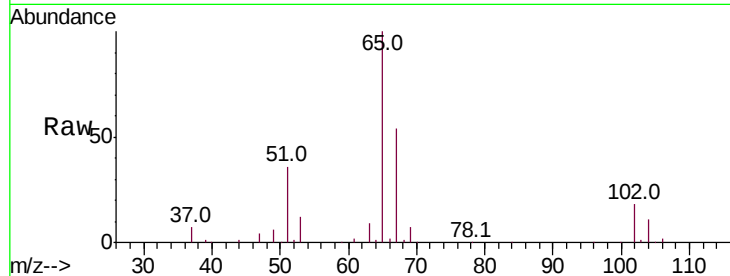




#33
 1,2-Dichloroethane-d4
 Concen: 50.545 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063710.D
 Acq: 28 Sep 2020 17:09

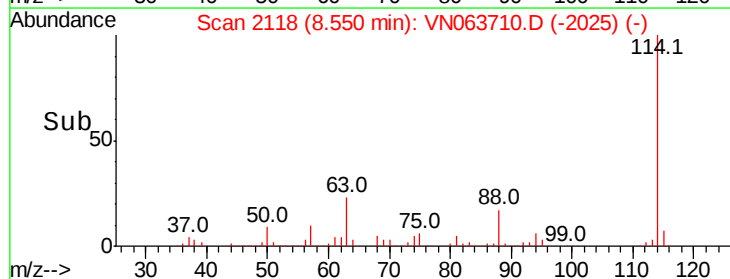
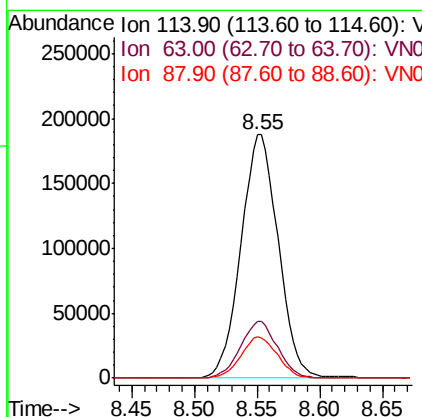
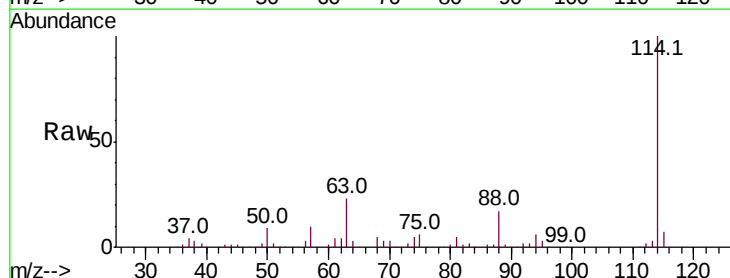
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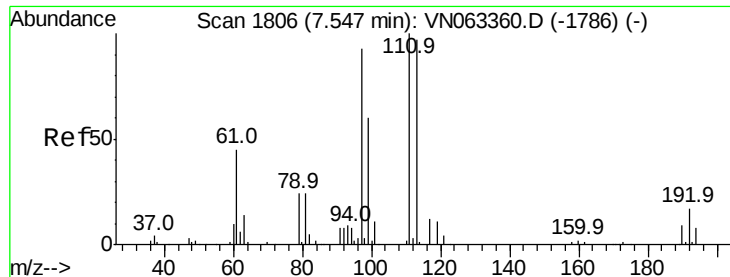
Tot Ion: 65 Resp: 177814
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063710.D
 Acq: 28 Sep 2020 17:09

Tgt Ion: 114 Resp: 388195
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 46.4
 88 17.0 0.0 33.2

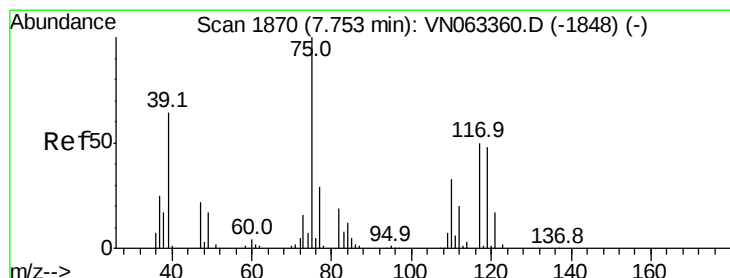
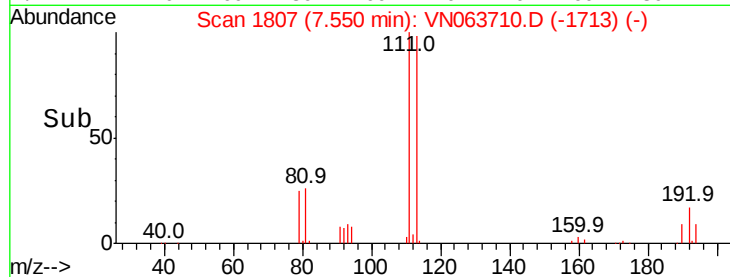
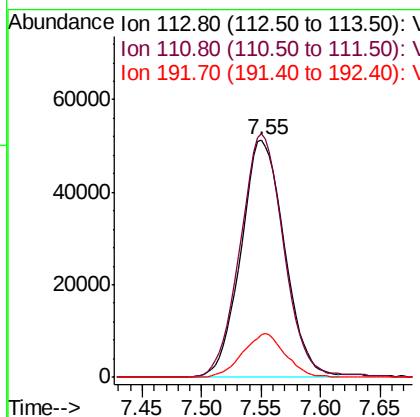
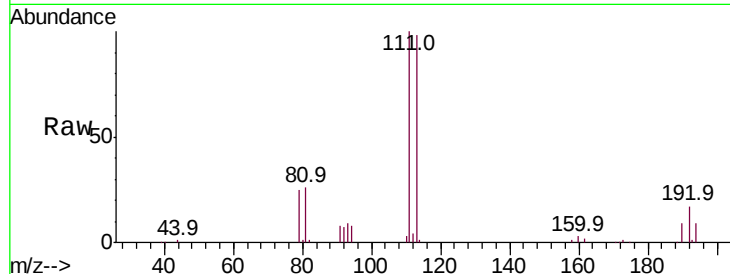




#35
 Dibromofluoromethane
 Concen: 48.451 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063710.D
 Acq: 28 Sep 2020 17:09

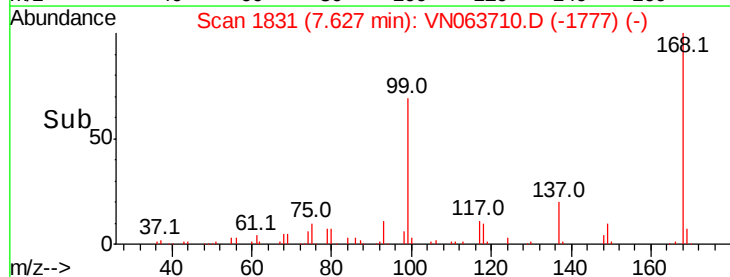
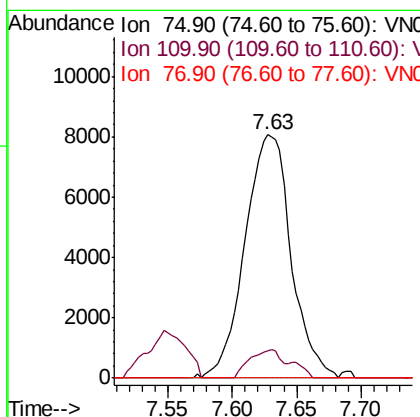
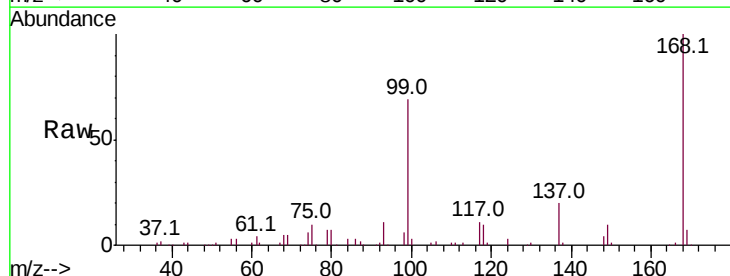
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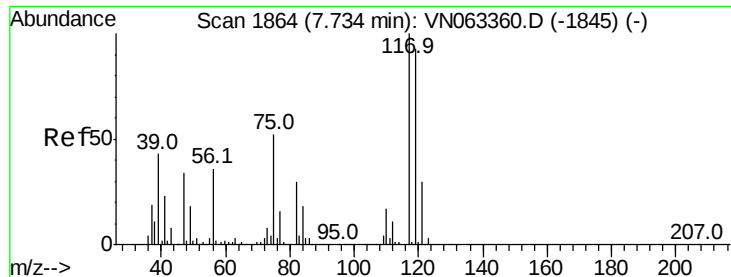
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	18.1	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.855 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063710.D
 Acq: 28 Sep 2020 17:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.5	49.5#
77	0.0	24.6	36.8#

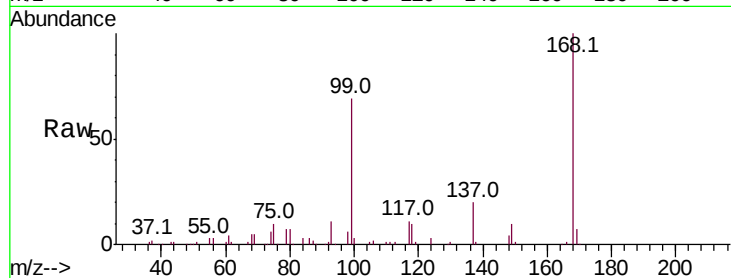




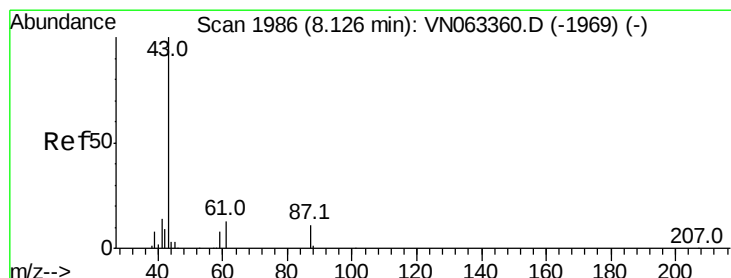
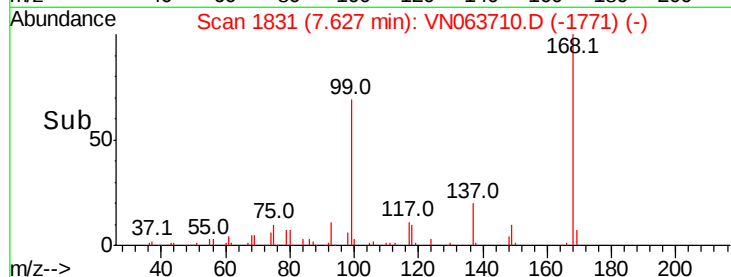
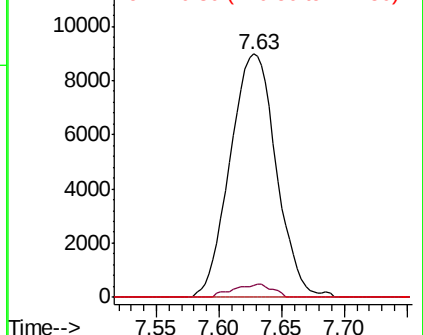
#38
Carbon Tetrachloride
Concen: 5.441 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :
PAV-B26-092420-0-1

Tot Ion:117 Resp: 22972
Ion Ratio Lower Upper
117 100
119 5.2 74.5 111.7#
121 0.0 24.1 36.1#

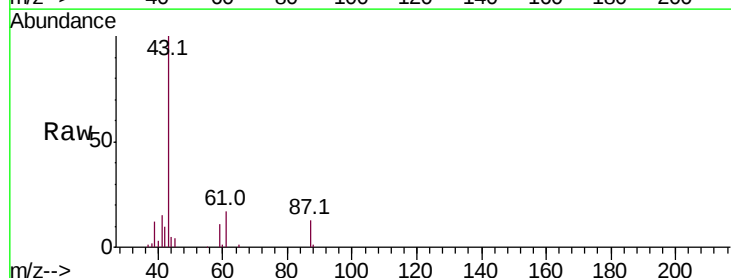


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

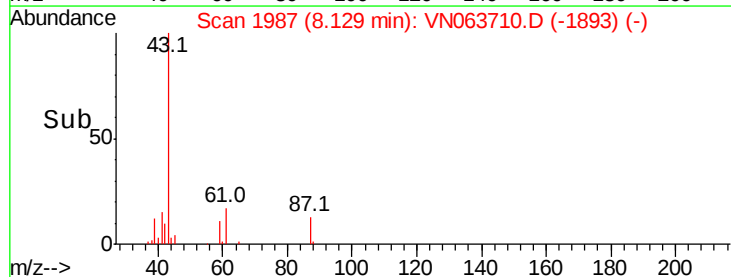
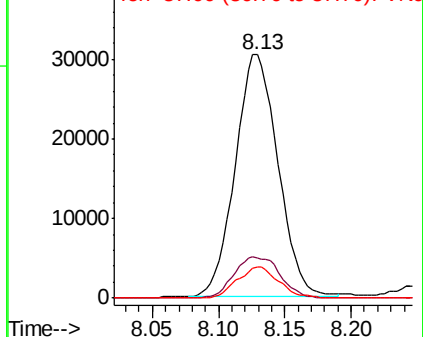


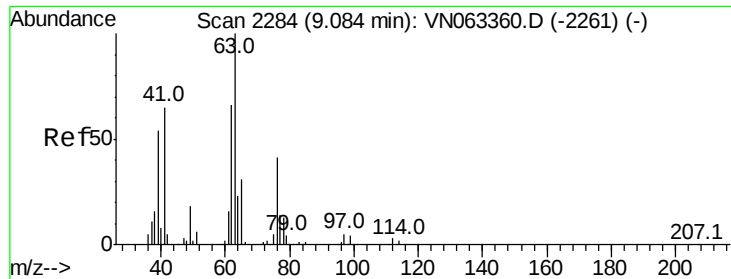
#43
Isopropyl Acetate
Concen: 9.406 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

Tgt Ion: 43 Resp: 68265
Ion Ratio Lower Upper
43 100
61 18.3 14.2 21.2
87 12.4 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: 0.267 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

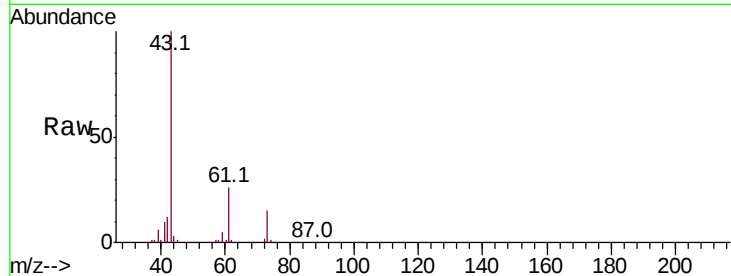
PAV-B26-092420-0-1

Tot Ion: 63 Resp: 860

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.23

500

400

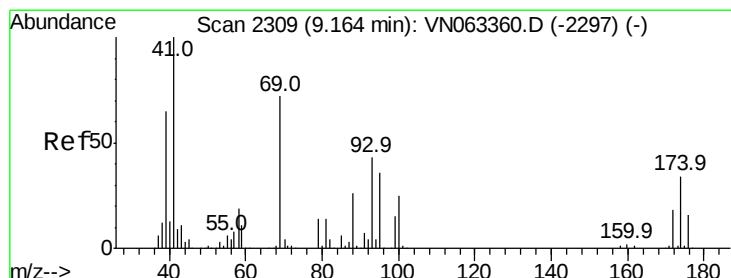
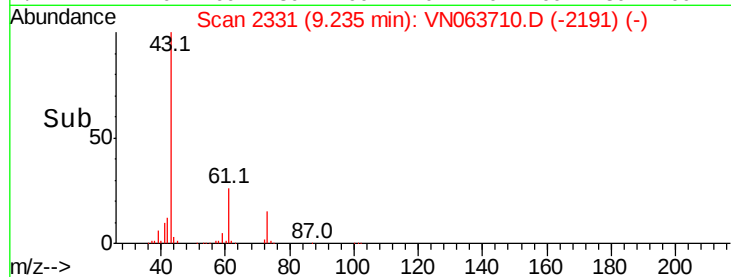
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.269 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

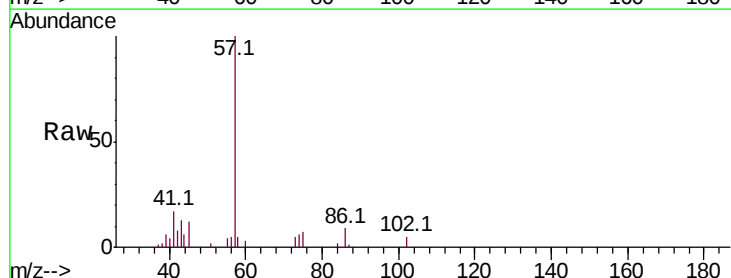
Tgt Ion: 41 Resp: 4524

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 43.3 52.9 79.3#



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

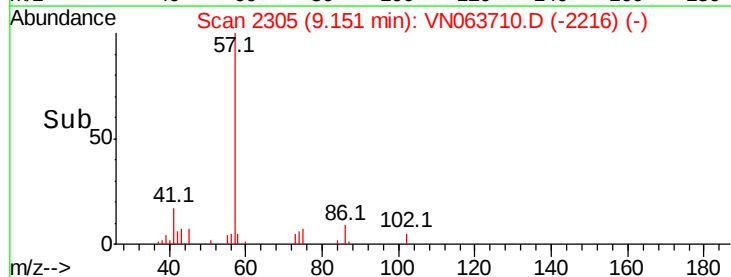
60000

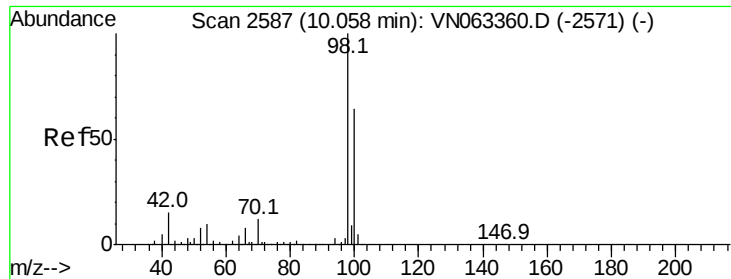
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 50.783 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

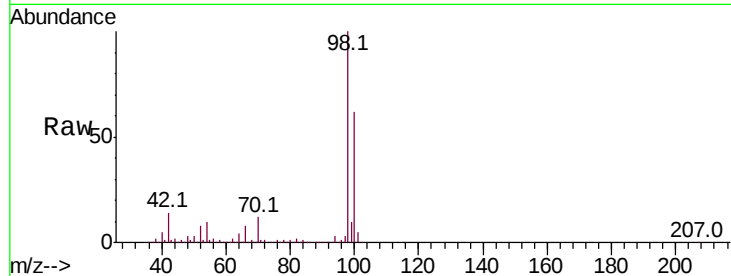
PAV-B26-092420-0-1

Tot Ion: 98 Resp: 513169

Ion Ratio Lower Upper

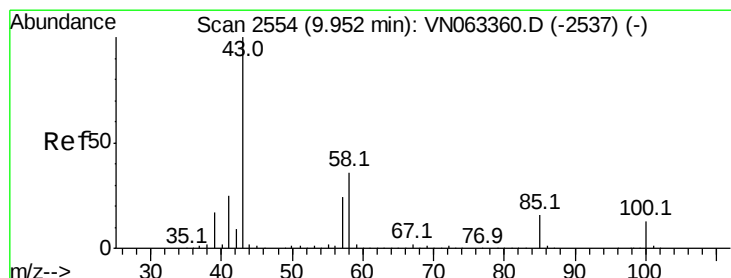
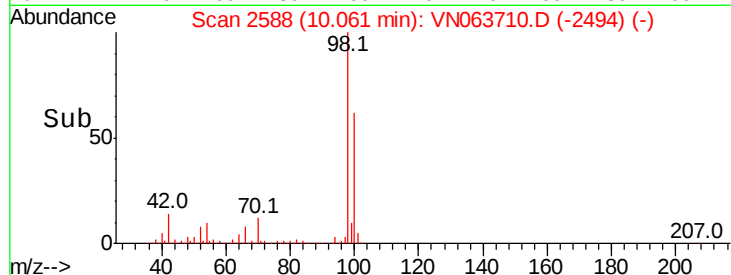
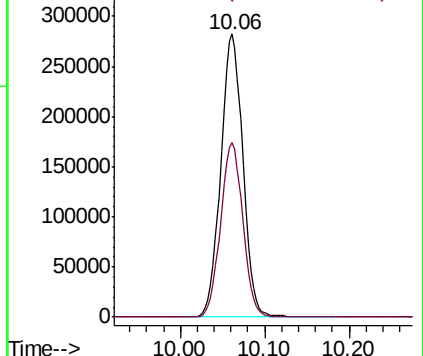
98 100

100 62.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.754 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063710.D

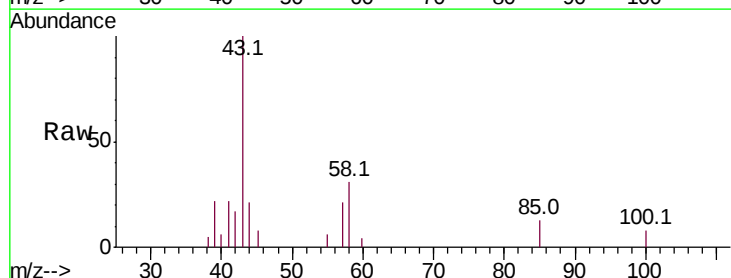
Acq: 28 Sep 2020 17:09

Tgt Ion: 43 Resp: 7126

Ion Ratio Lower Upper

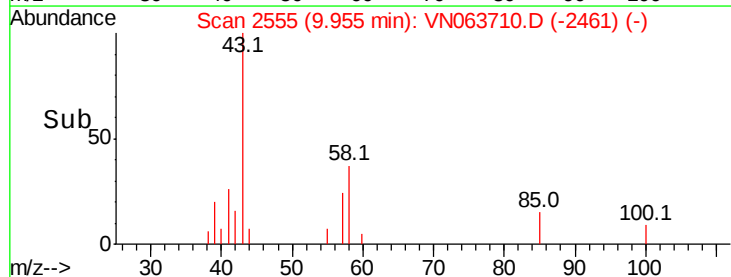
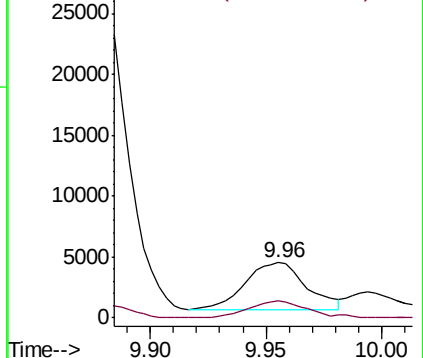
43 100

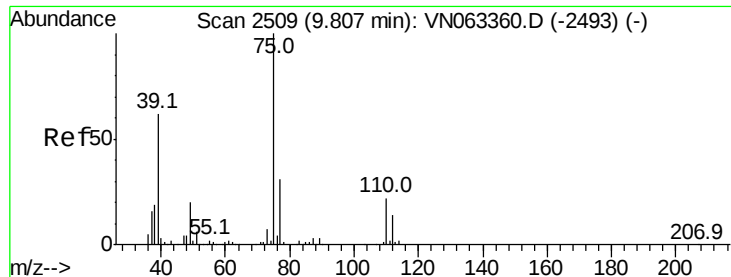
58 34.8 29.0 43.6



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: 4.407 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

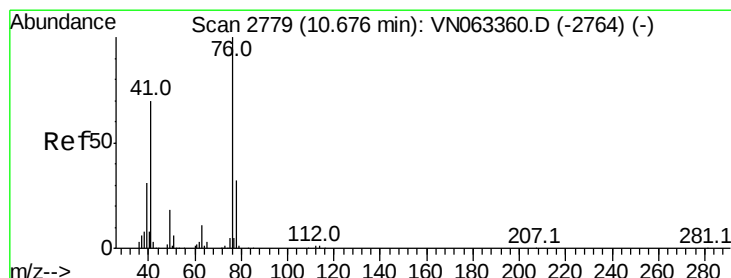
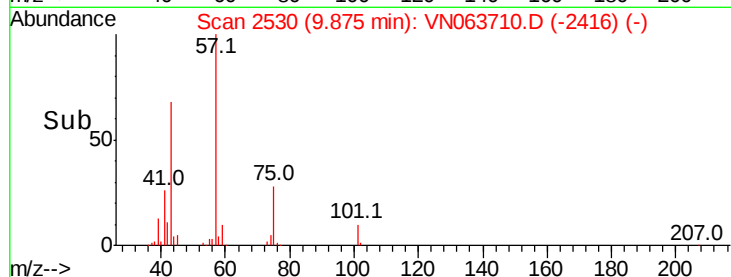
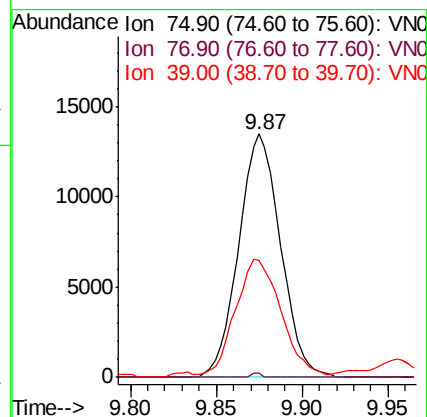
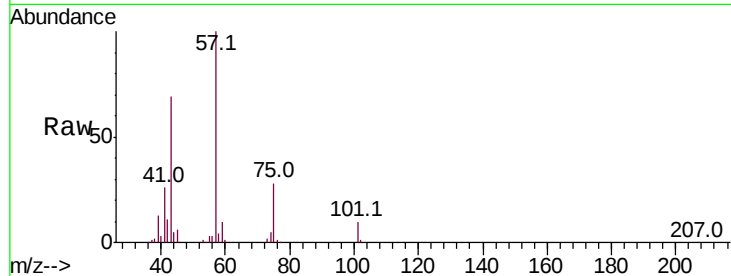
Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :
MSVOA_N
ClientSampleId :
PAV-B26-092420-0-1

Tot Ion: 75 Resp: 22786

Ion	Ratio	Lower	Upper
75	100		
77	1.5	24.6	37.0#
39	47.0	49.8	74.8#



#57

1,3-Dichloropropane

Concen: 0.498 ug/l

RT: 10.74 min Scan# 2798

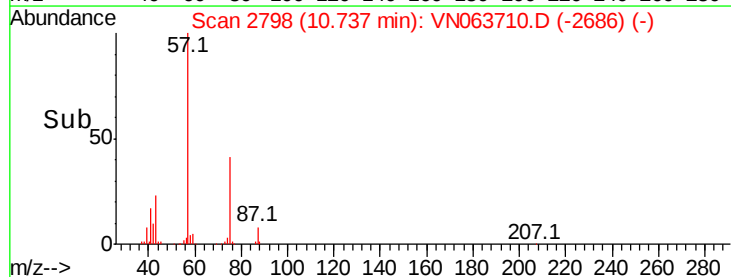
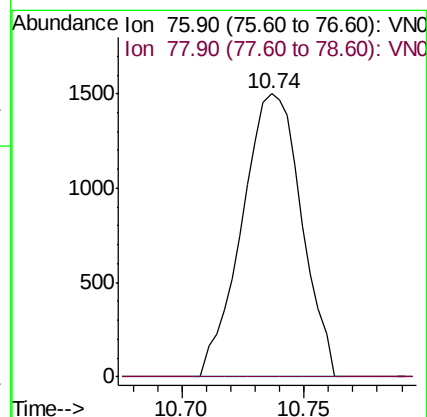
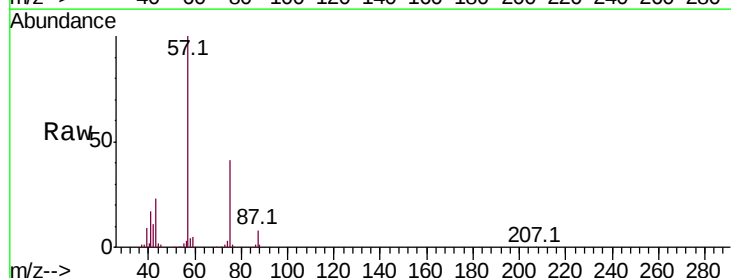
Delta R.T. 0.06 min

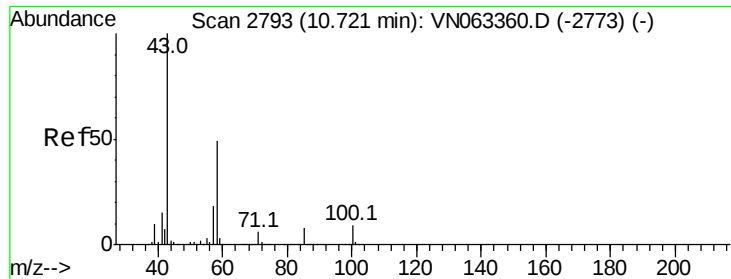
Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Tgt Ion: 76 Resp: 2534

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#





#59

2-Hexanone

Concen: 13.041 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

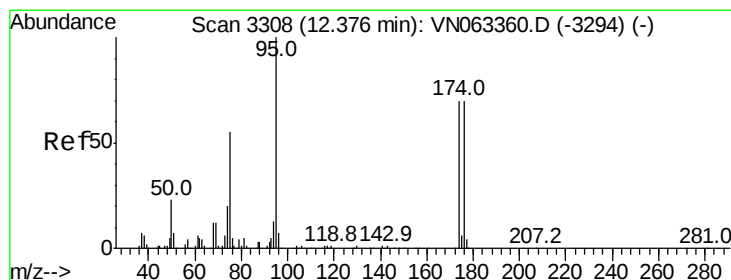
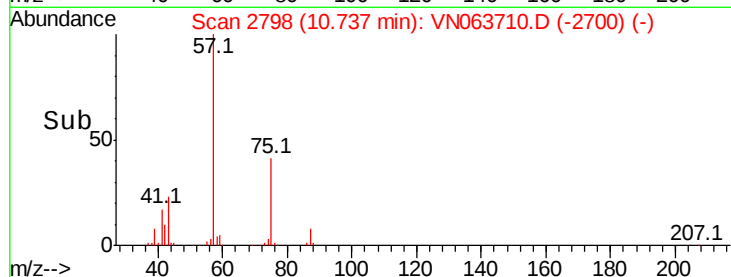
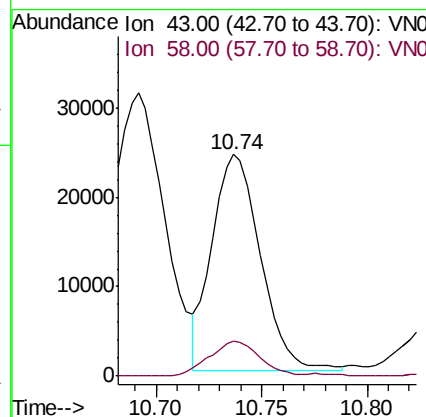
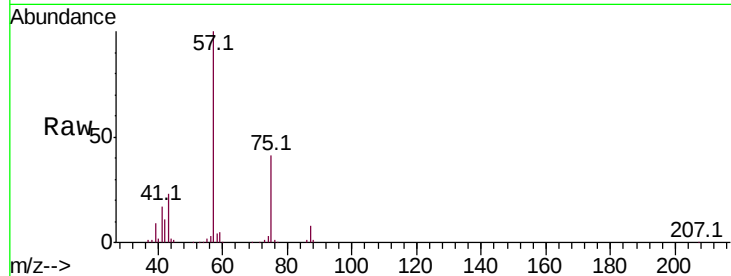
PAV-B26-092420-0-1

Tot Ion: 43 Resp: 38388

Ion Ratio Lower Upper

43 100

58 17.2 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.379 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

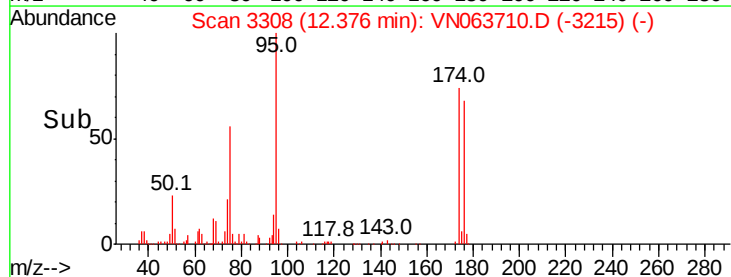
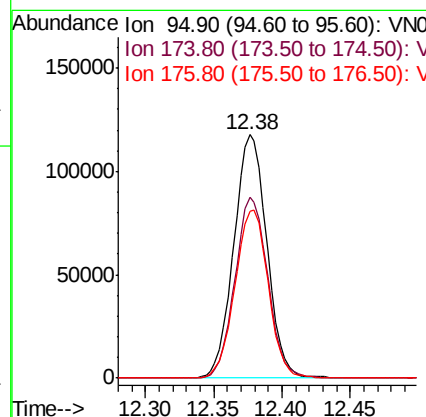
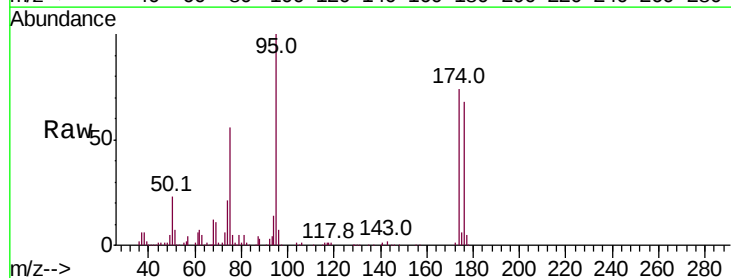
Tgt Ion: 95 Resp: 197733

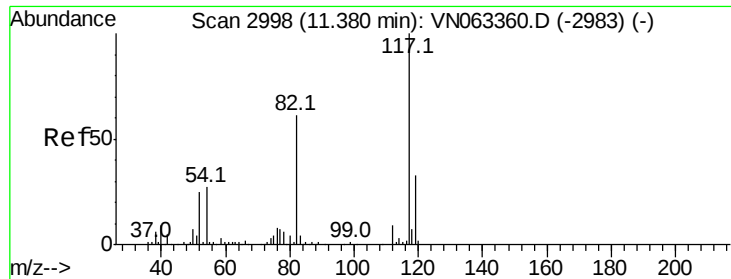
Ion Ratio Lower Upper

95 100

174 74.1 0.0 140.8

176 69.7 0.0 137.6

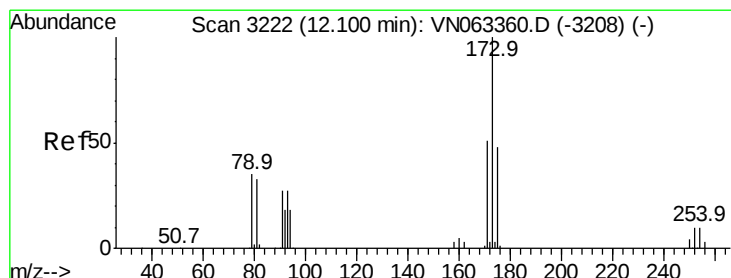
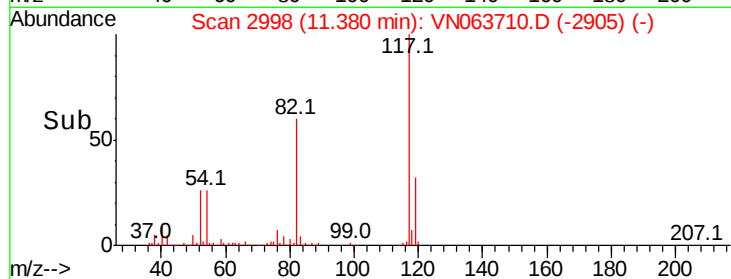
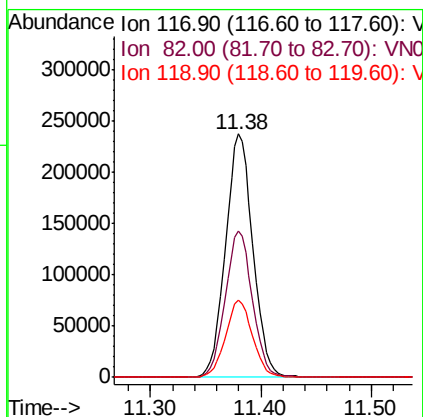
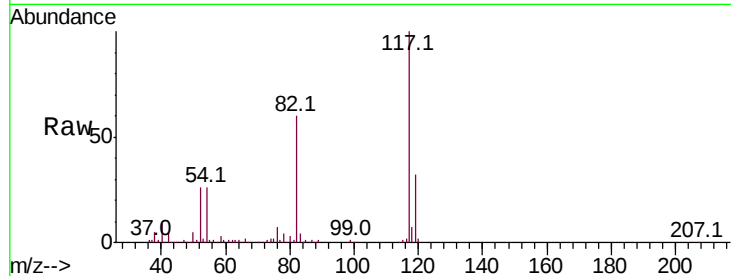




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

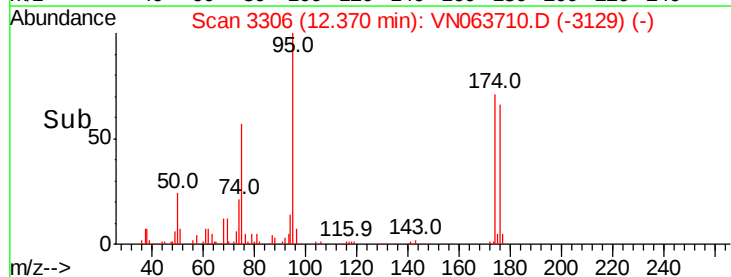
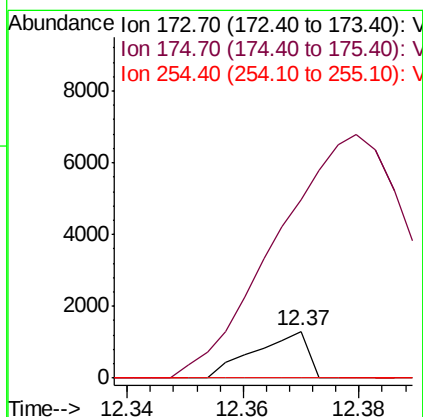
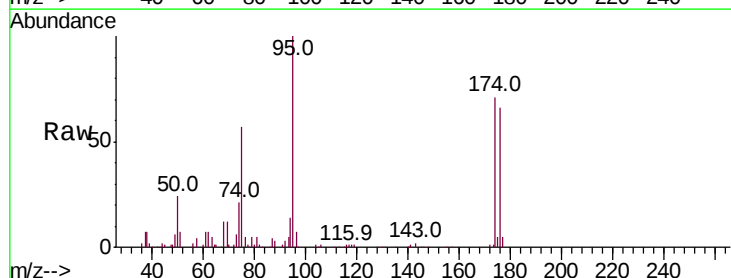
Instrument :
MSVOA_N
ClientSampleId :
PAV-B26-092420-0-1

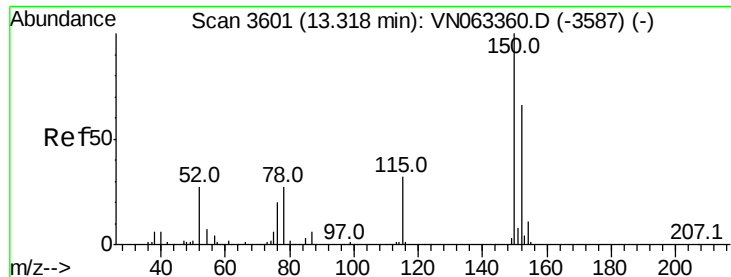
Tot Ion:117 Resp: 408091
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 31.7 26.2 39.4



#71
Bromoform
Concen: 0.348 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN063710.D
Acq: 28 Sep 2020 17:09

Tgt Ion:173 Resp: 823
Ion Ratio Lower Upper
173 100
175 1120.2 24.0 72.0#
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: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

PAV-B26-092420-0-1

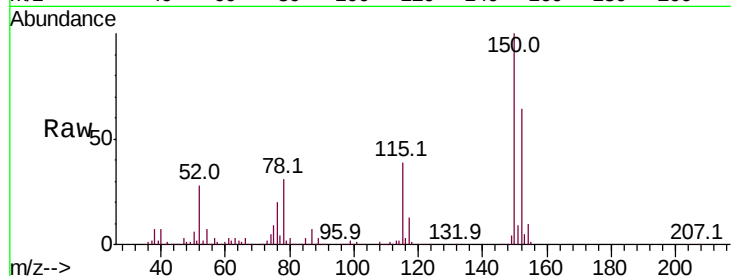
Tot Ion:152 Resp: 163407

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

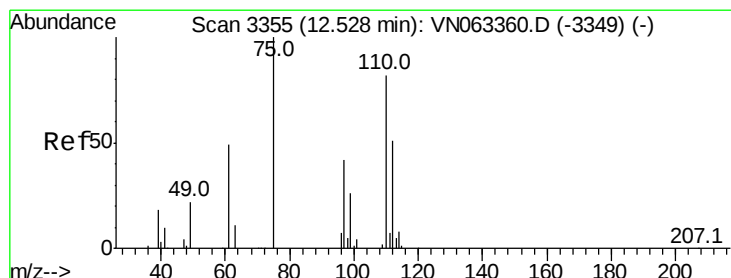
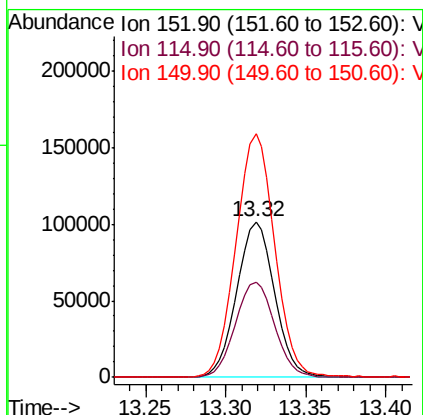
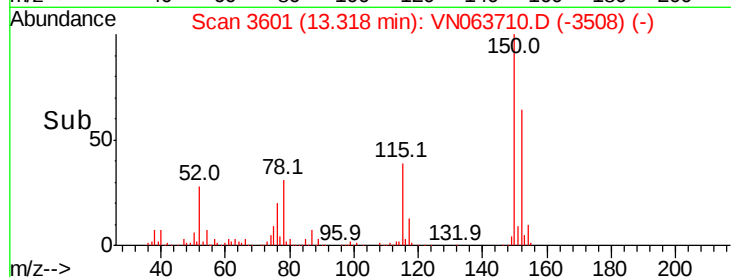
150 160.4 0.0 343.4



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



#76

1,2,3-Trichloropropane

Concen: 27.718 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063710.D

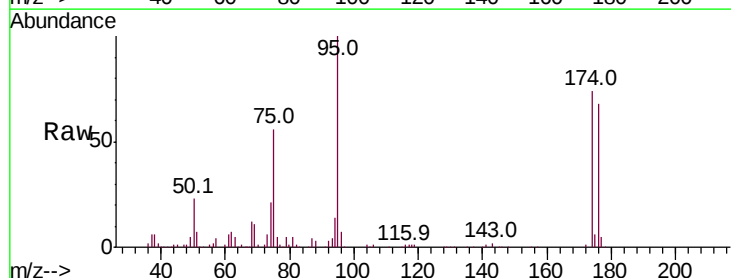
Acq: 28 Sep 2020 17:09

Tgt Ion: 75 Resp: 112105

Ion Ratio Lower Upper

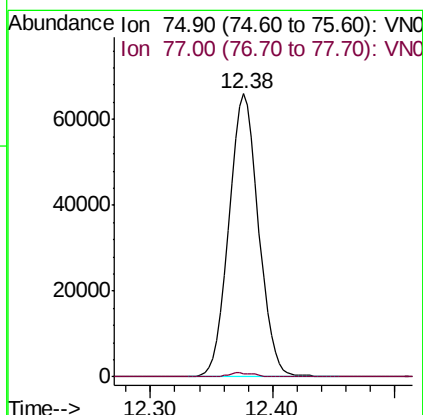
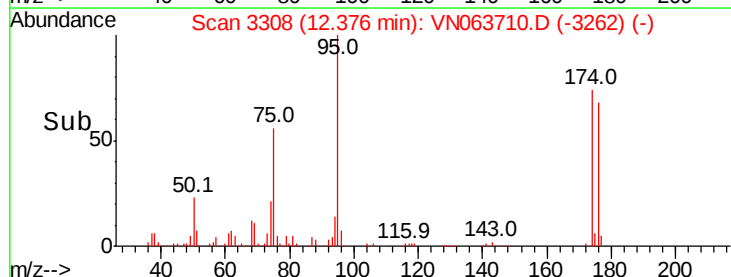
75 100

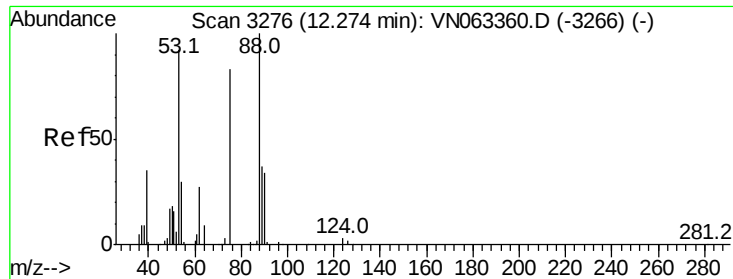
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 75.991 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063710.D

Acq: 28 Sep 2020 17:09

Instrument :

MSVOA_N

ClientSampleId :

PAV-B26-092420-0-1

Tot Ion: 75 Resp: 112105

Ion Ratio Lower Upper

75 100

53 0.2 85.7 128.5#

89 0.0 38.0 57.0#

