

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063420.D
 Acq On : 17 Sep 2020 15:38
 Operator : JC/MD
 Sample : PB131674ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131674ZHE#03

Quant Time: Sep 18 02:50:21 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	239091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	450674	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	460099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196298	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	199453	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
35) Dibromofluoromethane	7.55	113	143775	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	
50) Toluene-d8	10.06	98	590391	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
62) 4-Bromofluorobenzene	12.38	95	234267	54.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.94%	

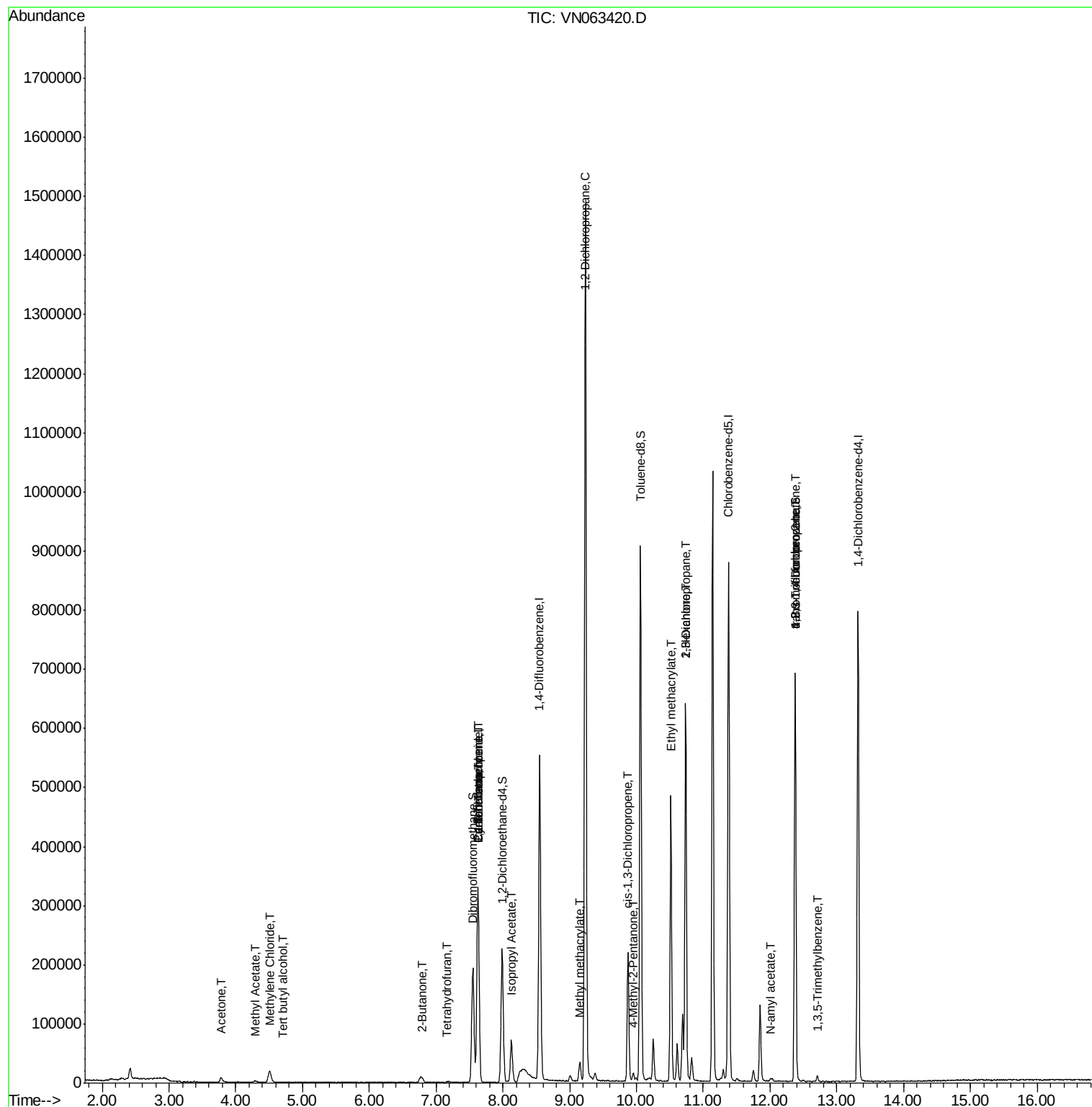
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	202	0.358	ug/l #	72
16) Acetone	3.78	43	13475	10.302	ug/l	96
18) Methyl Acetate	4.29	43	5388	1.623	ug/l #	72
20) Methylene Chloride	4.51	84	14085	4.250	ug/l	94
25) 2-Butanone	6.79	43	4074	2.025	ug/l #	86
29) Tetrahydrofuran	7.15	42	388	0.282	ug/l #	70
31) Cyclohexane	7.62	56	6564	1.168	ug/l #	34
36) 1,1-Dichloropropene	7.62	75	22025	4.587	ug/l #	51
38) Carbon Tetrachloride	7.63	117	26656	5.439	ug/l #	17
43) Isopropyl Acetate	8.13	43	87256	10.356	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1923	0.515	ug/l #	43
48) Methyl methacrylate	9.15	41	4744	1.146	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	10710	2.270	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	35402	5.898	ug/l #	67
56) Ethyl methacrylate	10.52	69	1299	0.254	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6350	1.076	ug/l #	42
59) 2-Hexanone	10.74	43	102172	29.897	ug/l #	53
74) N-amyl acetate	12.01	43	5012	0.673	ug/l #	48
76) 1,2,3-Trichloropropane	12.38	75	130986	26.959	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4529	0.345	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	130986	73.912	ug/l #	7

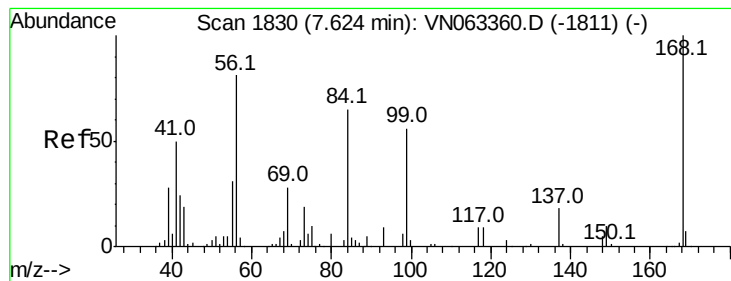
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

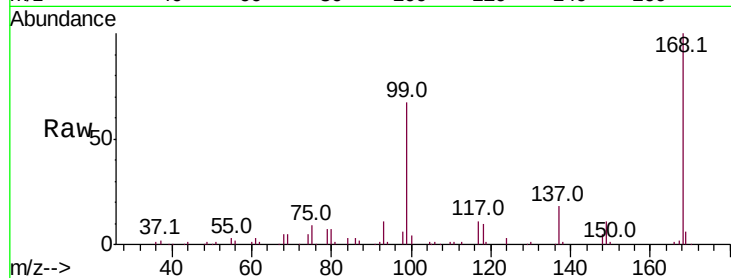
PB131674ZHE#03

Tot Ion:168 Resp: 239091

Ion Ratio Lower Upper

168 100

99 67.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

120000

100000

80000

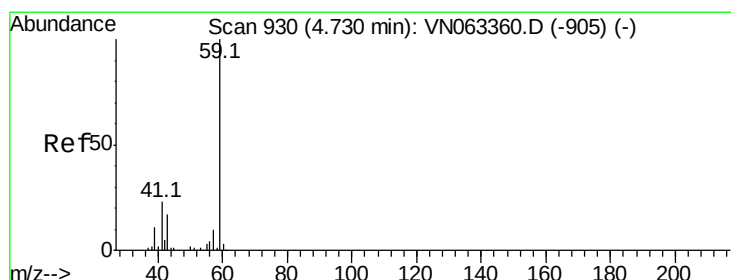
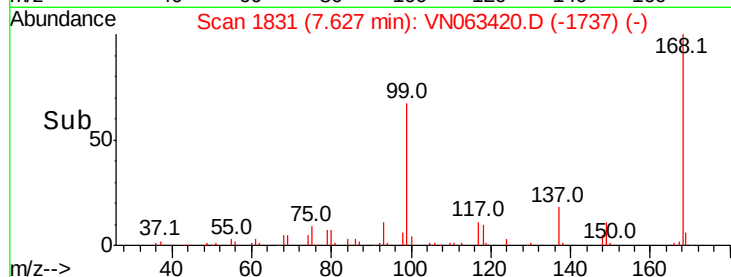
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.358 ug/l

RT: 4.70 min Scan# 922

Delta R.T. -0.03 min

Lab File: VN063420.D

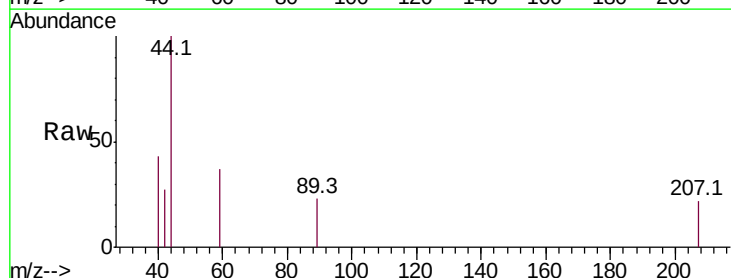
Acq: 17 Sep 2020 15:38

Tgt Ion: 59 Resp: 202

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063360.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063360.D (-905) (-)

4.70

300

250

200

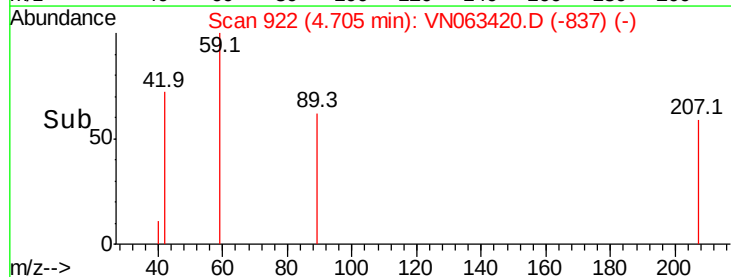
150

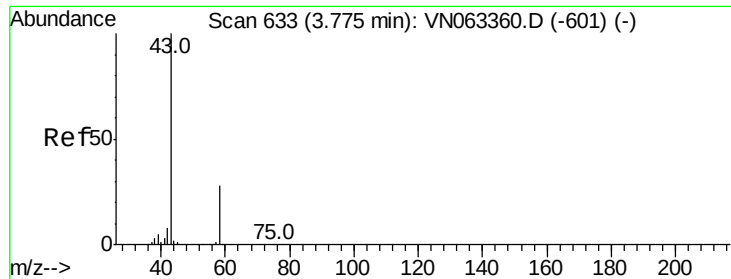
100

50

0

Time-->





#16

Acetone

Concen: 10.302 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

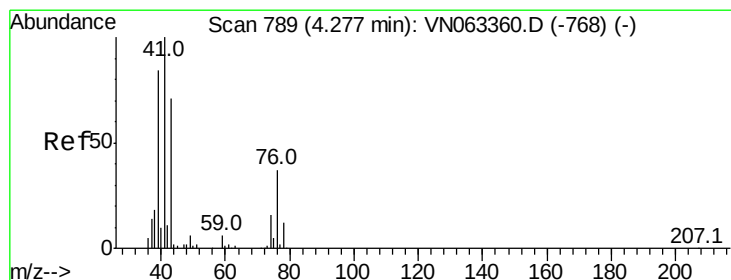
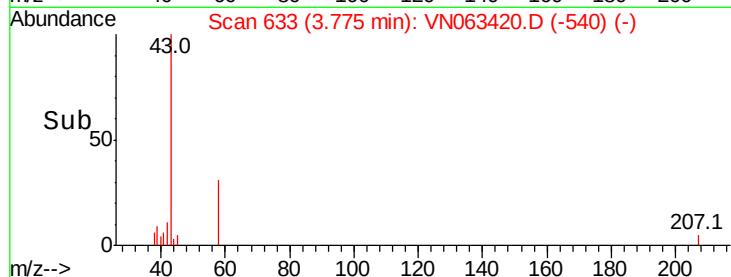
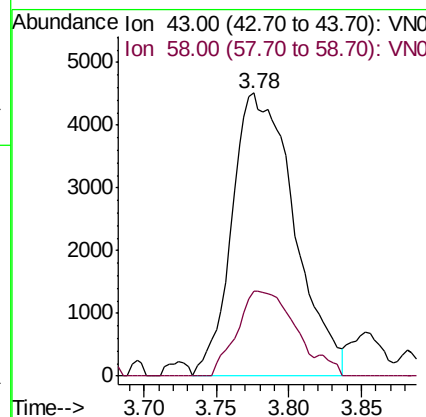
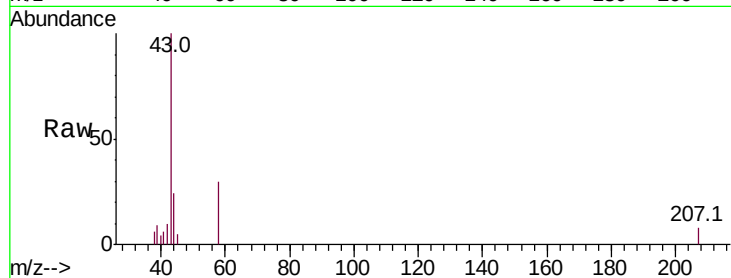
PB131674ZHE#03

Tot Ion: 43 Resp: 13475

Ion Ratio Lower Upper

43 100

58 30.0 22.3 33.5



#18

Methyl Acetate

Concen: 1.623 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063420.D

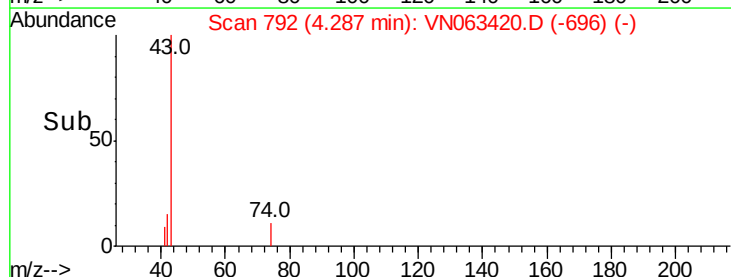
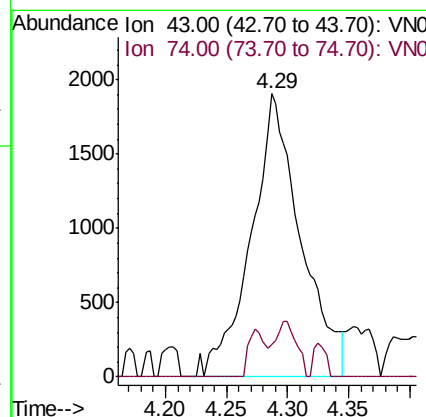
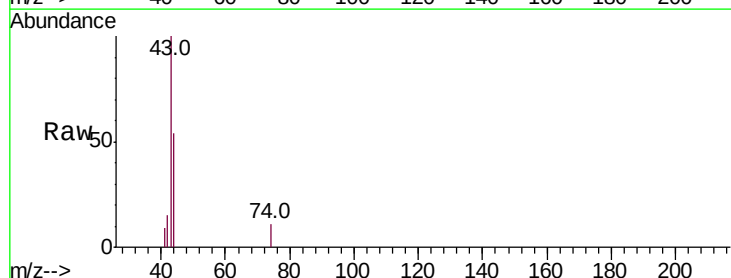
Acq: 17 Sep 2020 15:38

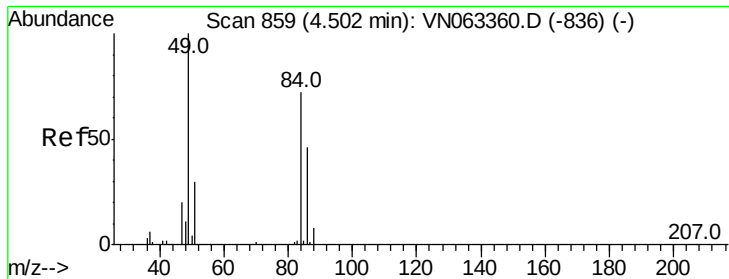
Tgt Ion: 43 Resp: 5388

Ion Ratio Lower Upper

43 100

74 8.6 17.4 26.2#

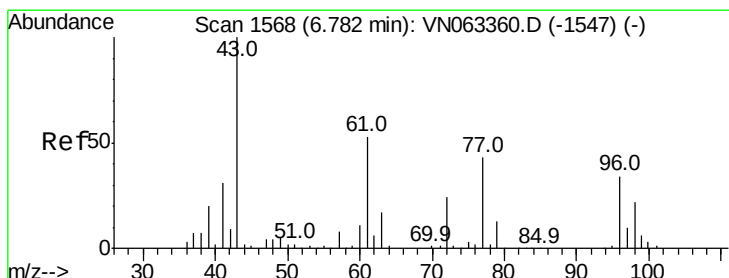
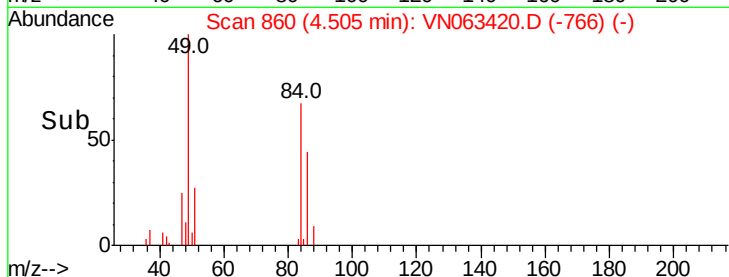
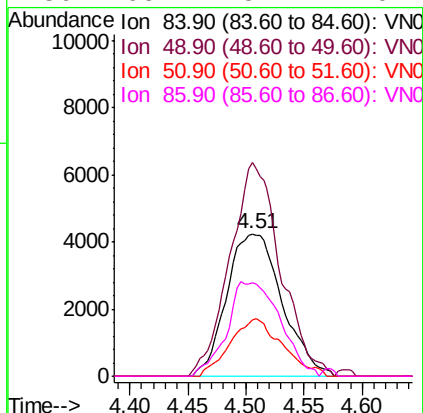
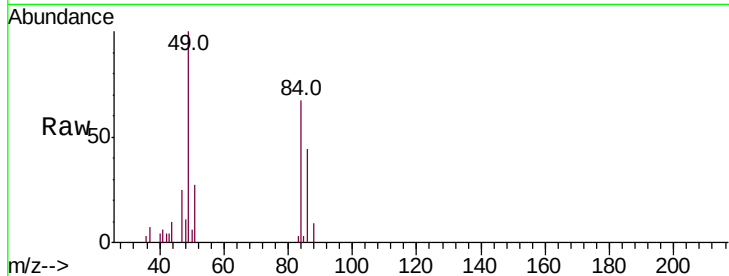




#20
Methvlene Chloride
Concen: 4.250 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063420.D
Acq: 17 Sep 2020 15:38

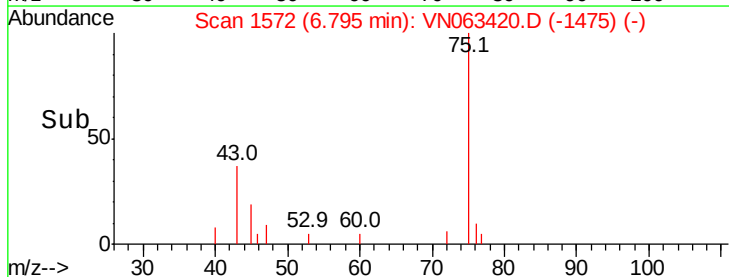
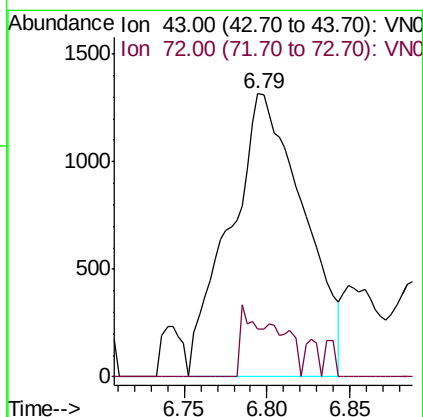
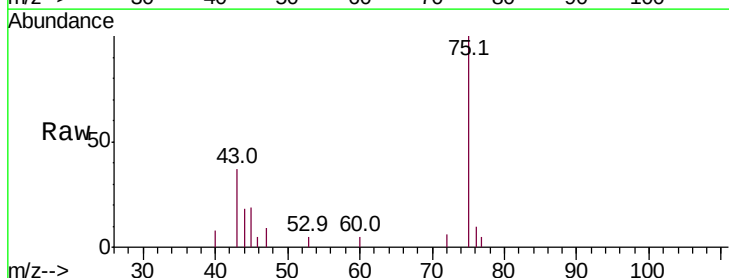
Instrument :
MSVOA_N
ClientSampleId :
PB131674ZHE#03

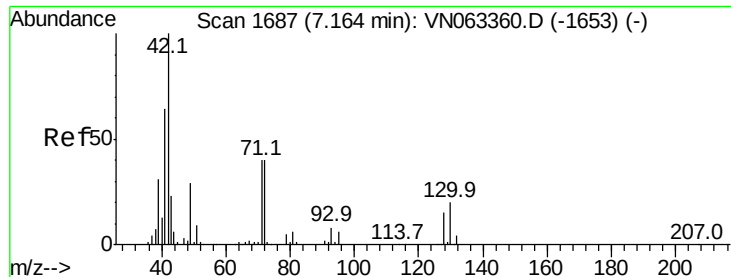
Tot Ion: 84 Resp: 14085
Ion Ratio Lower Upper
84 100
49 150.1 110.7 166.1
51 40.0 32.9 49.3
86 65.7 51.1 76.7



#25
2-Butanone
Concen: 2.025 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063420.D
Acq: 17 Sep 2020 15:38

Tgt Ion: 43 Resp: 4074
Ion Ratio Lower Upper
43 100
72 17.1 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.282 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

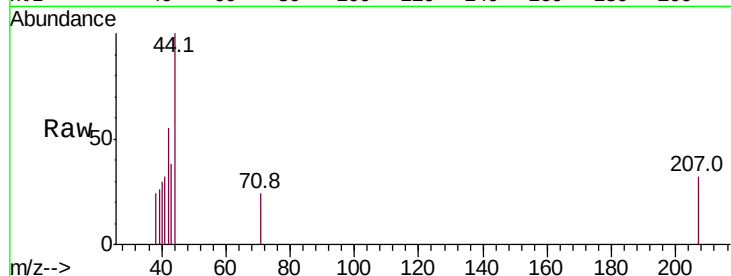
Tot Ion: 42 Resp: 388

Ion Ratio Lower Upper

42 100

72 26.3 32.1 48.1#

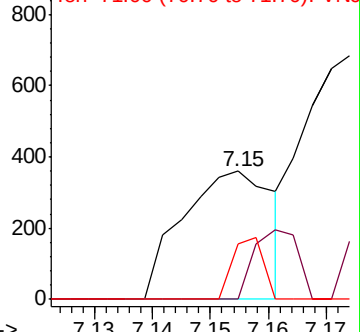
71 16.2 31.2 46.8#



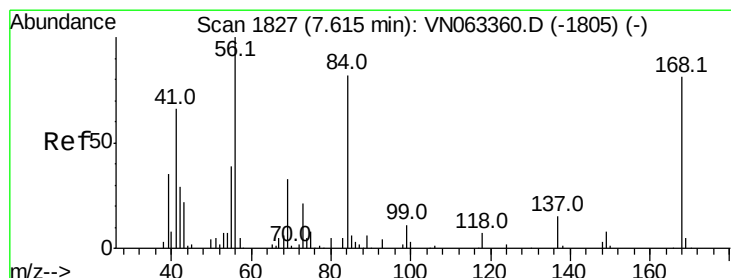
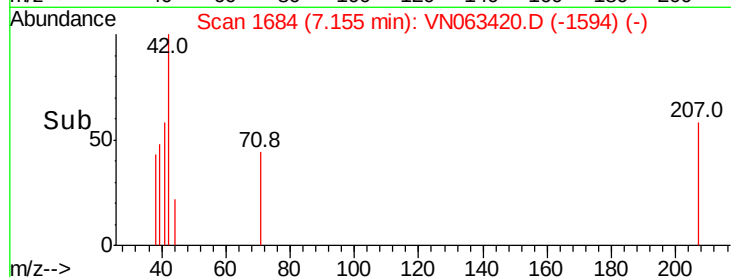
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.168 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

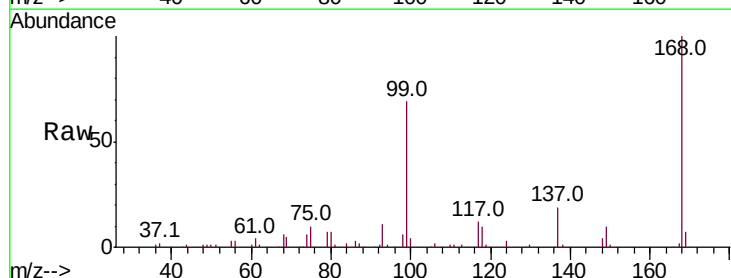
Tgt Ion: 56 Resp: 6564

Ion Ratio Lower Upper

56 100

69 159.1 26.1 39.1#

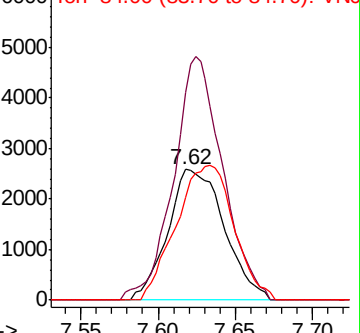
84 79.0 65.4 98.2



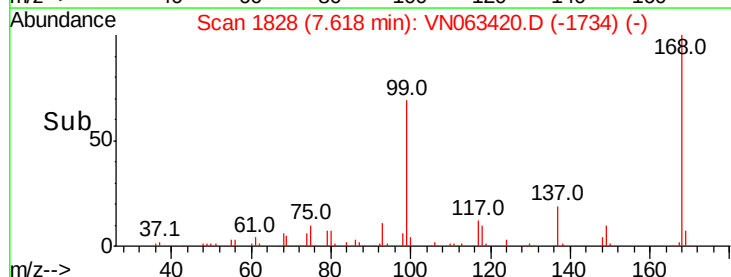
Abundance Ion 56.00 (55.70 to 56.70): VN0

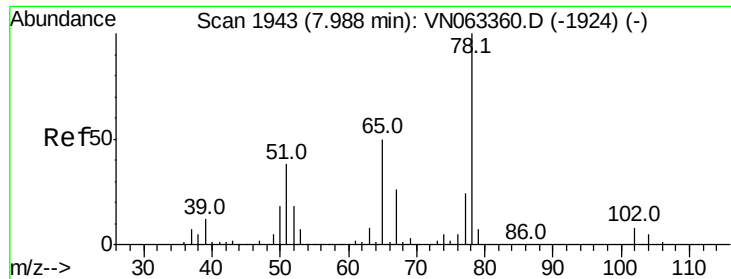
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

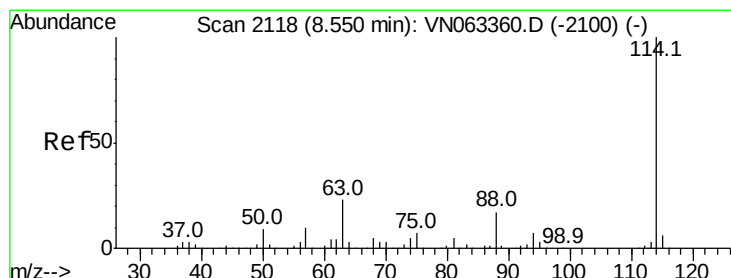
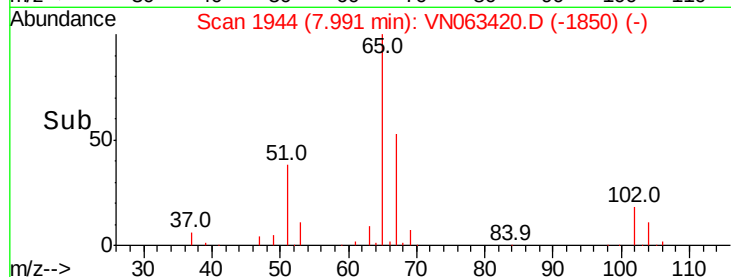
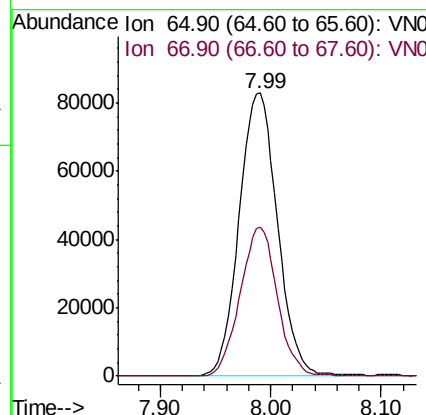
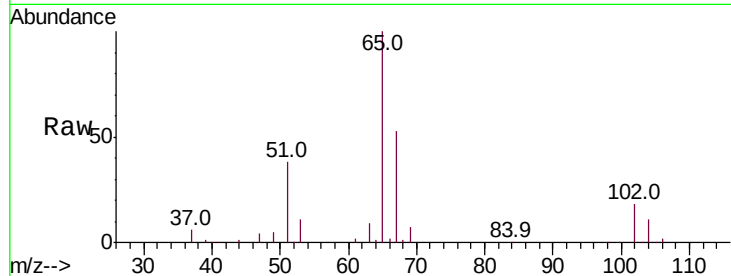




#33
 1,2-Dichloroethane-d4
 Concen: 49.006 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063420.D
 Acq: 17 Sep 2020 15:38

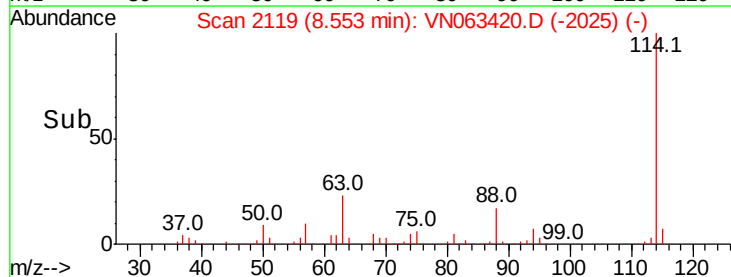
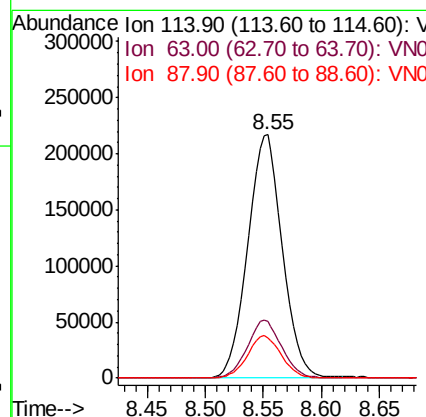
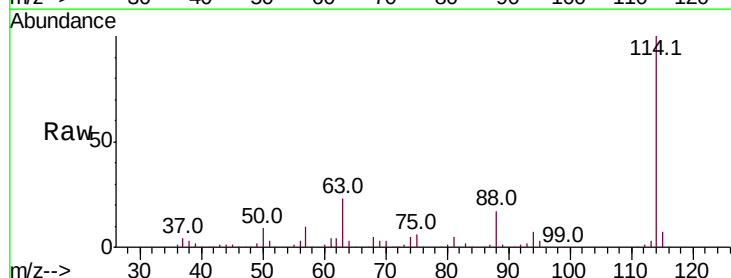
Instrument :
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 PB131674ZHE#03

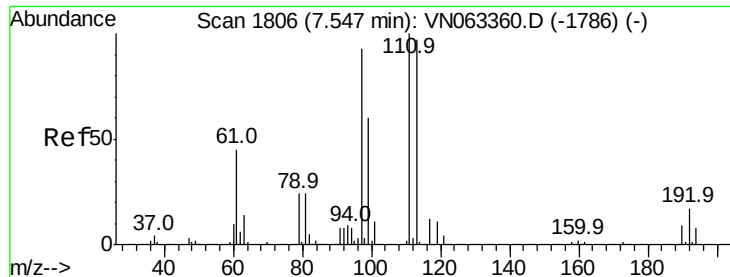
Tot Ion: 65 Resp: 199453
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063420.D
 Acq: 17 Sep 2020 15:38

Tgt Ion: 114 Resp: 450674
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.4
 88 16.7 0.0 33.2

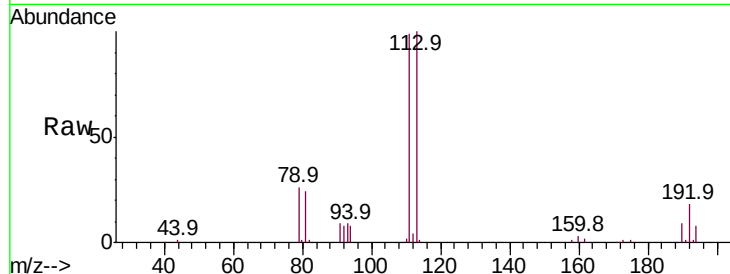




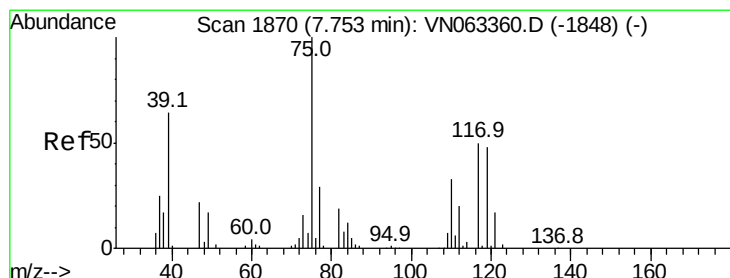
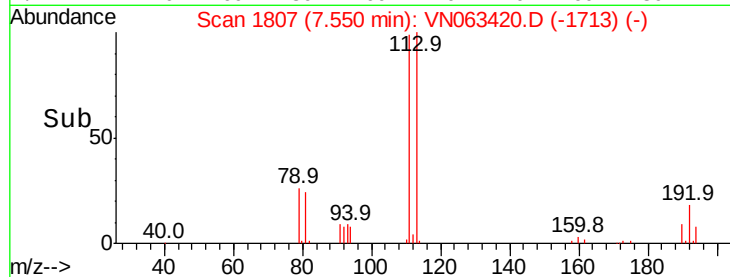
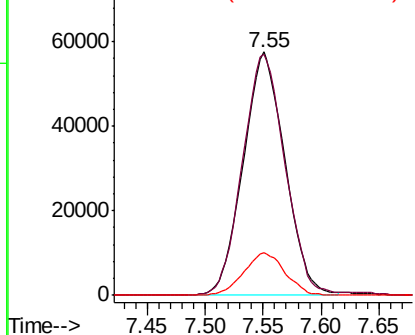
#35
 Dibromofluoromethane
 Concen: 46.083 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063420.D
 Acq: 17 Sep 2020 15:38

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131674ZHE#03

Tot Ion:113 Resp: 143775
 Ion Ratio Lower Upper
 113 100
 111 100.7 82.9 124.3
 192 17.3 13.9 20.9

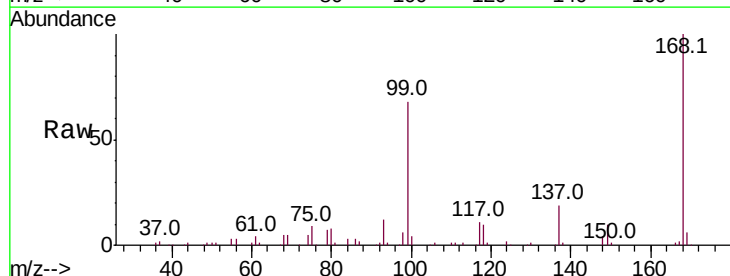


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

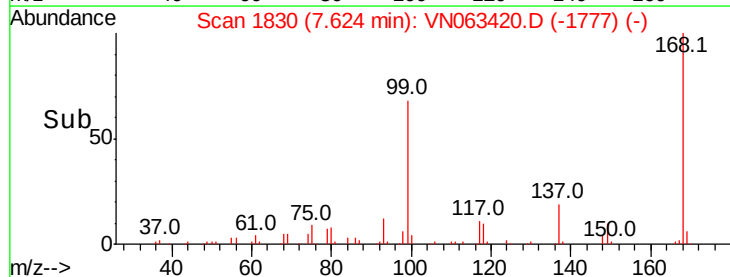
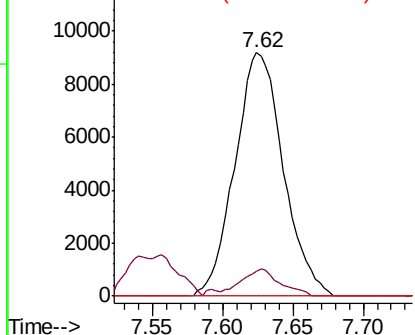


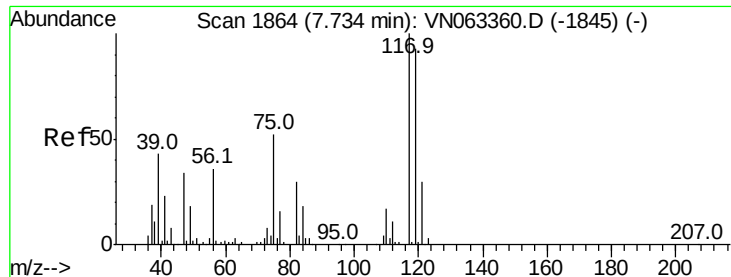
#36
 1,1-Dichloropropene
 Concen: 4.587 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063420.D
 Acq: 17 Sep 2020 15:38

Tgt Ion: 75 Resp: 22025
 Ion Ratio Lower Upper
 75 100
 110 8.9 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: 5.439 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

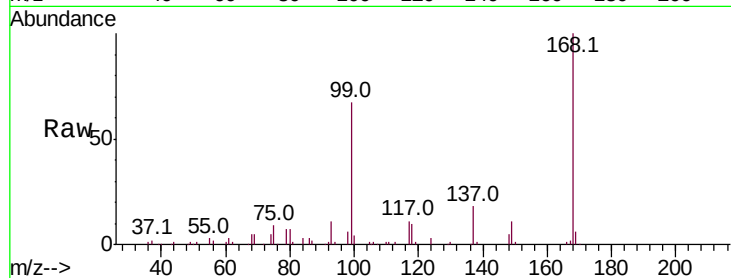
Tot Ion:117 Resp: 26656

Ion Ratio Lower Upper

117 100

119 4.8 74.5 111.7#

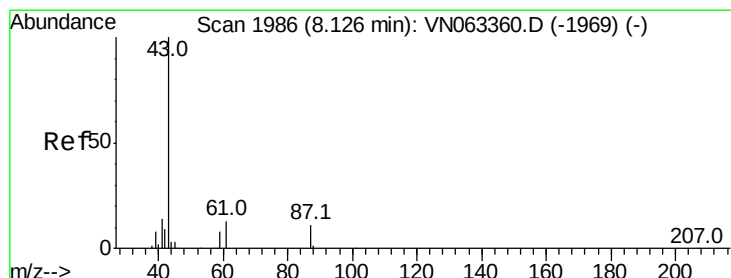
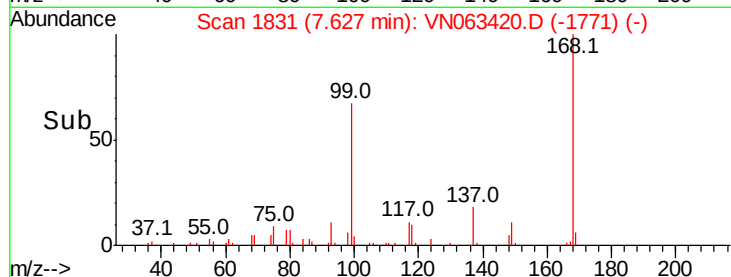
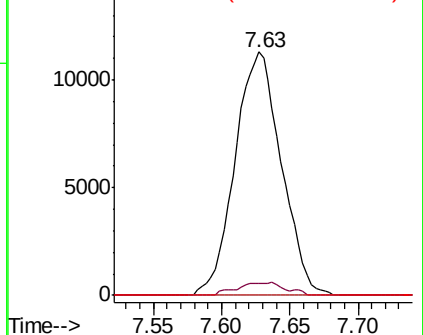
121 0.0 24.1 36.1#



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: 10.356 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

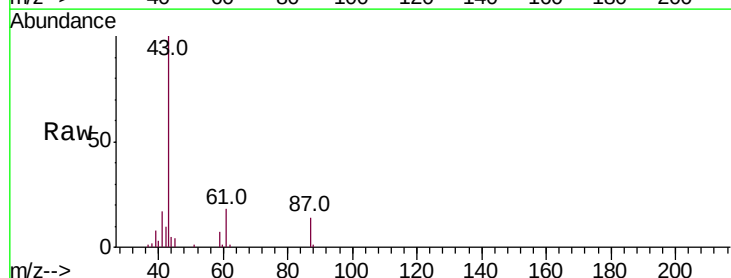
Tgt Ion: 43 Resp: 87256

Ion Ratio Lower Upper

43 100

61 18.3 14.2 21.2

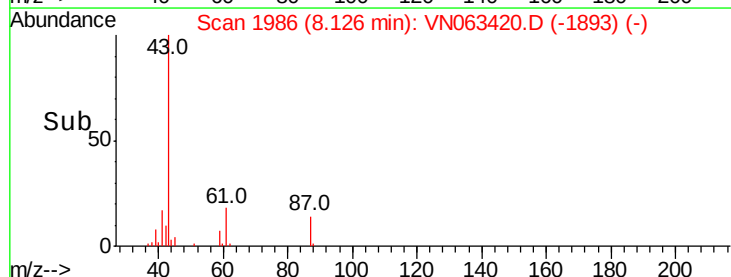
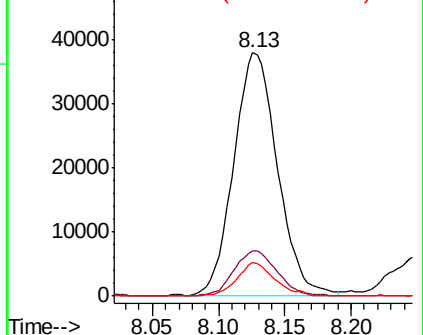
87 11.9 9.0 13.6

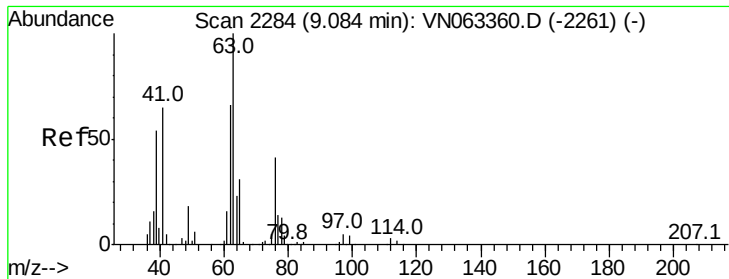


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.515 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

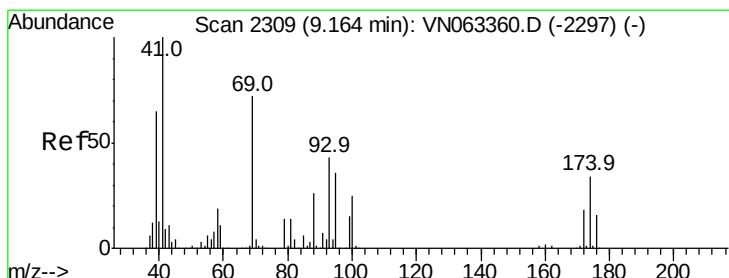
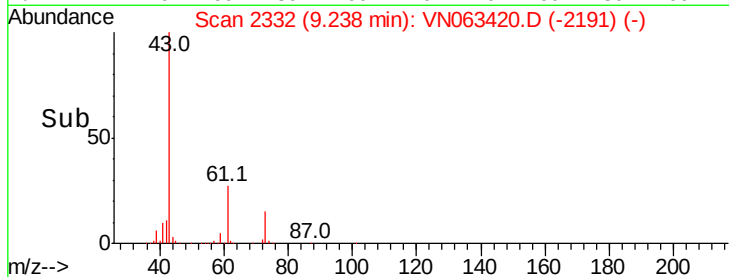
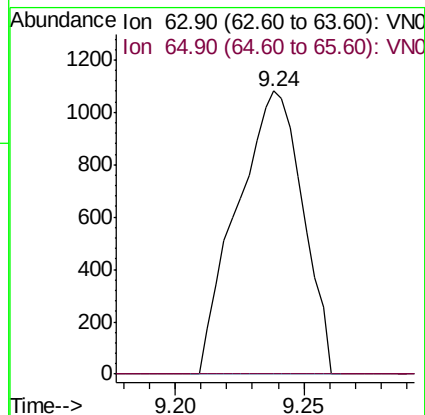
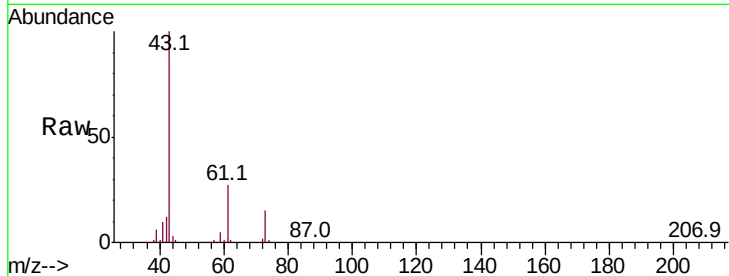
PB131674ZHE#03

Tot Ion: 63 Resp: 1923

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#48

Methyl methacrylate

Concen: 1.146 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

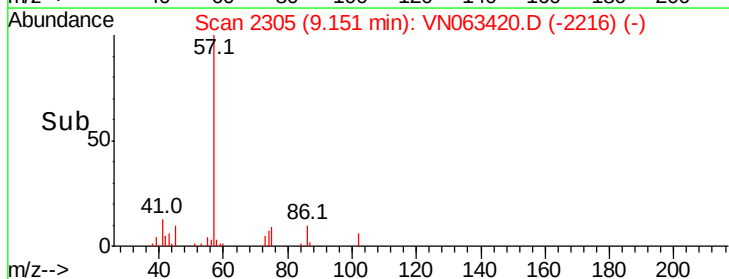
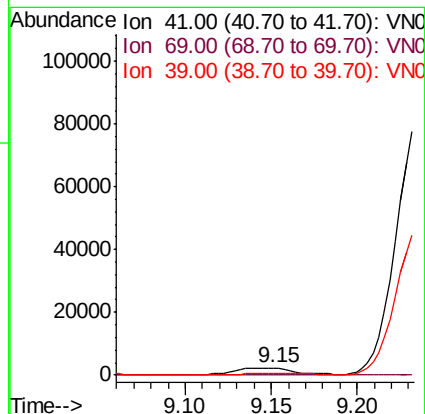
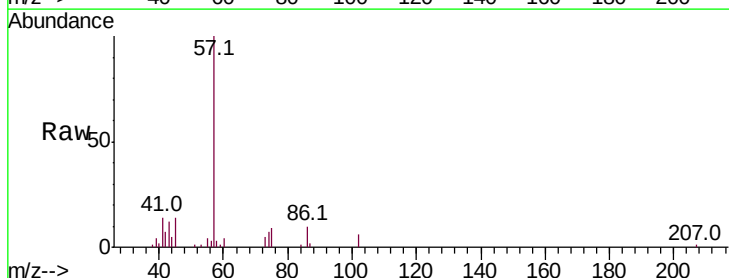
Tgt Ion: 41 Resp: 4744

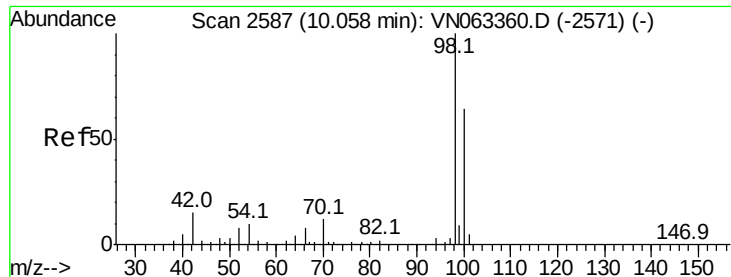
Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 50.325 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

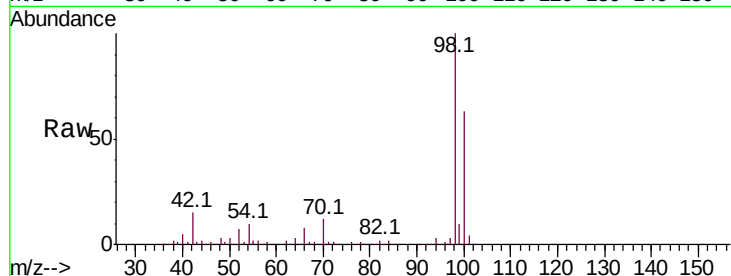
PB131674ZHE#03

Tot Ion: 98 Resp: 590391

Ion Ratio Lower Upper

98 100

100 63.4 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) (-)

10.06

300000

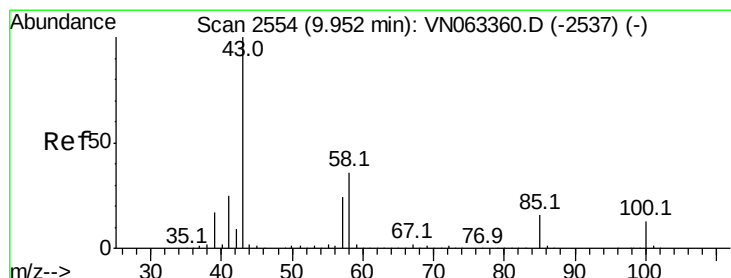
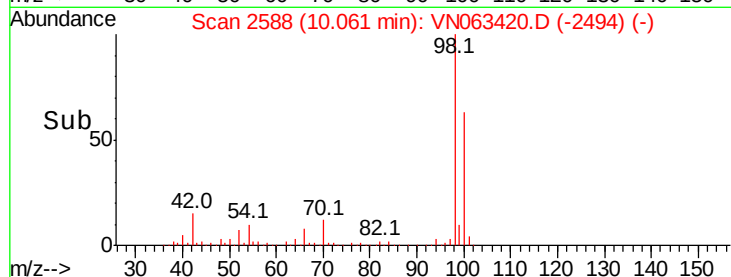
200000

100000

0

Time-->

10.00 10.10



#51

4-Methyl-2-Pentanone

Concen: 2.270 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063420.D

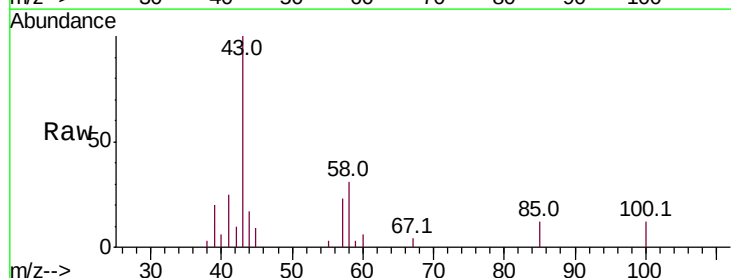
Acq: 17 Sep 2020 15:38

Tgt Ion: 43 Resp: 10710

Ion Ratio Lower Upper

43 100

58 31.3 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

40000

30000

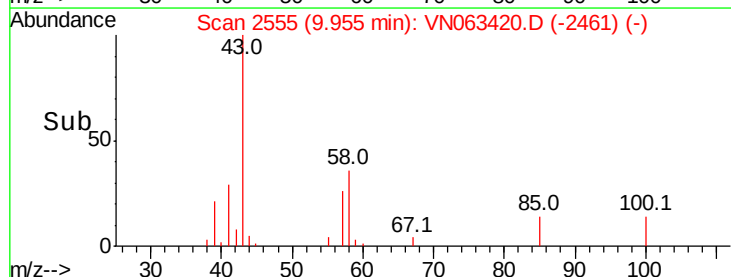
20000

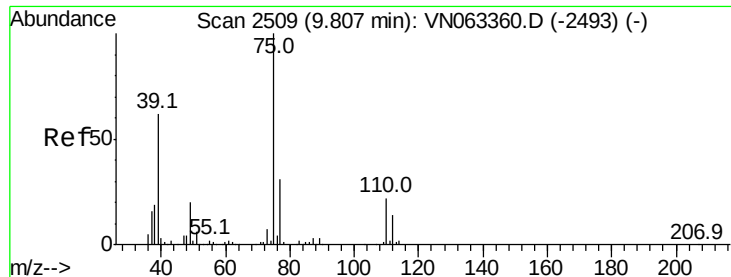
10000

0

Time-->

9.90 9.95





#54

cis-1,3-Dichloropropene

Concen: 5.898 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

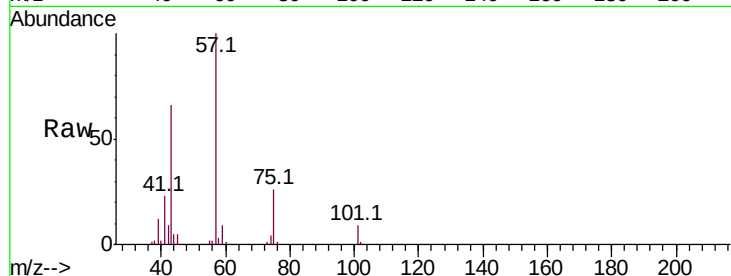
Tot Ion: 75 Resp: 35402

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

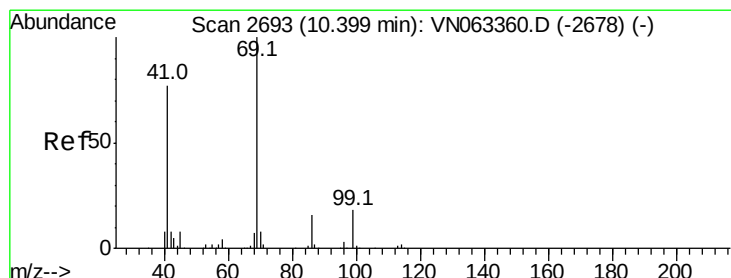
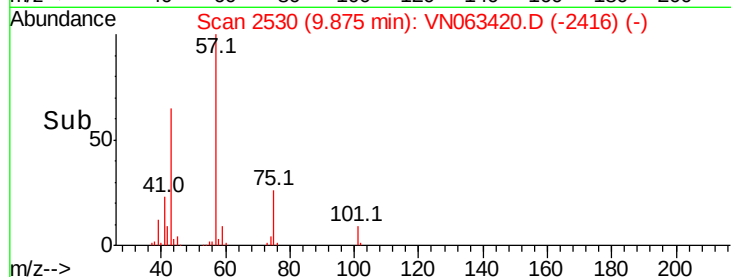
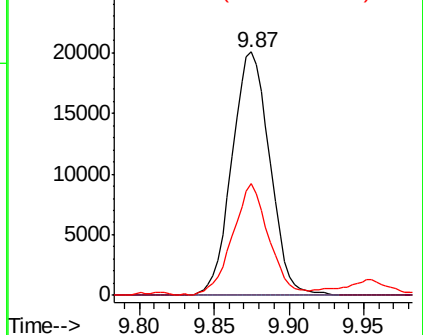
39 45.8 49.8 74.8#



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: 0.254 ug/l

RT: 10.52 min Scan# 2731

Delta R.T. 0.12 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

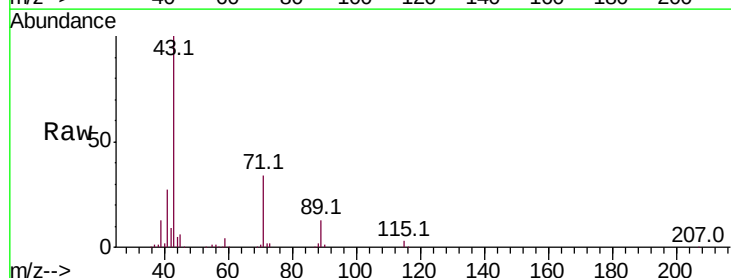
Tgt Ion: 69 Resp: 1299

Ion Ratio Lower Upper

69 100

41 7483.8 61.0 91.6#

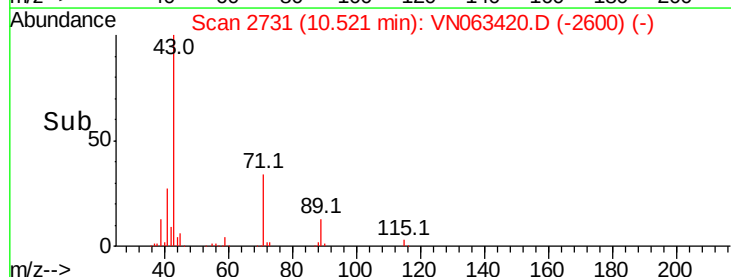
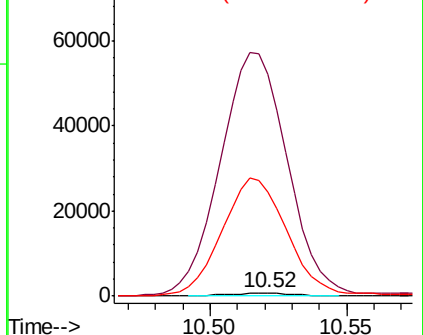
39 3567.8 39.2 58.8#

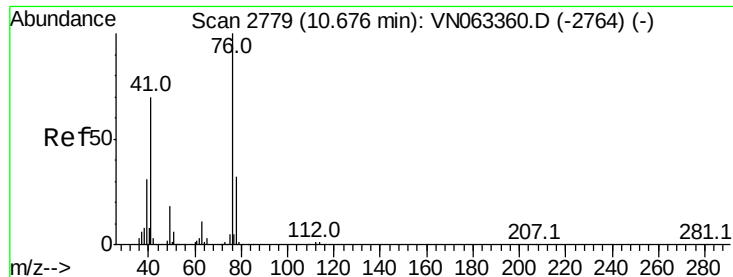


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.076 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

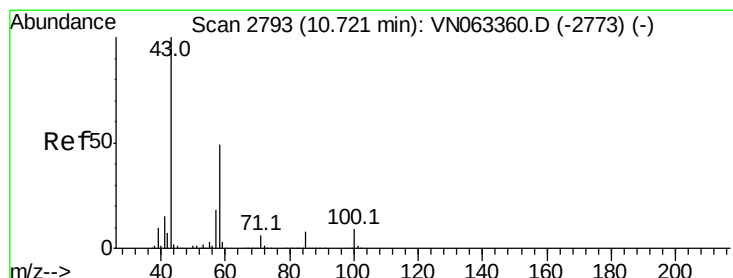
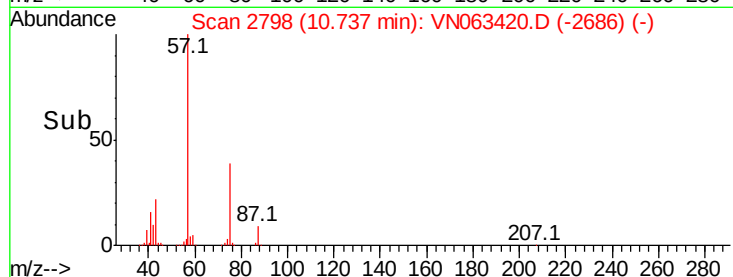
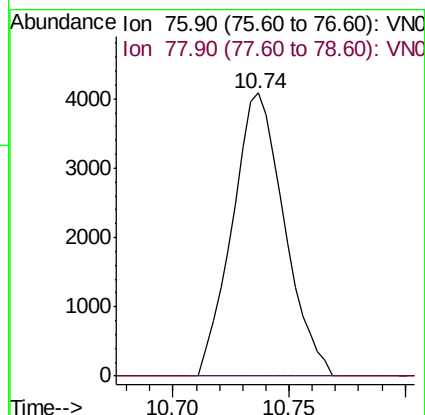
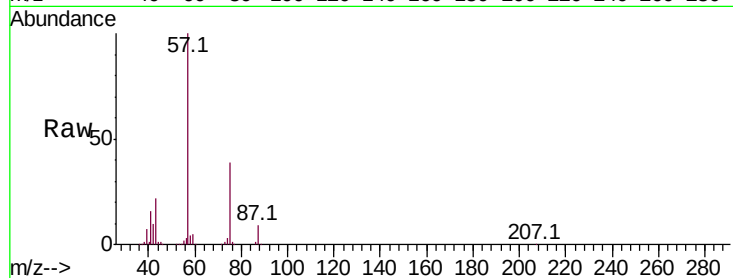
PB131674ZHE#03

Tot Ion: 76 Resp: 6350

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 29.897 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063420.D

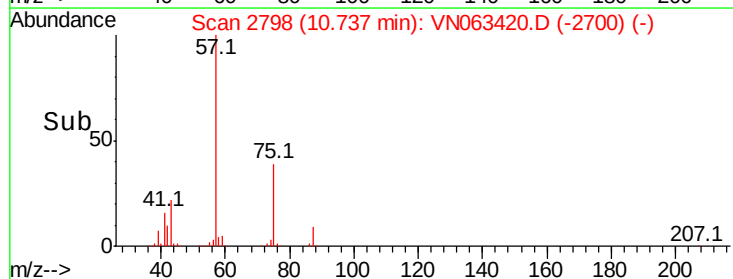
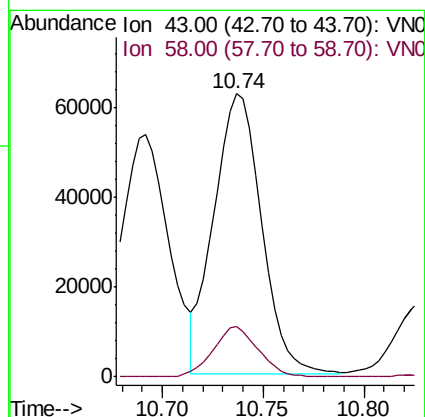
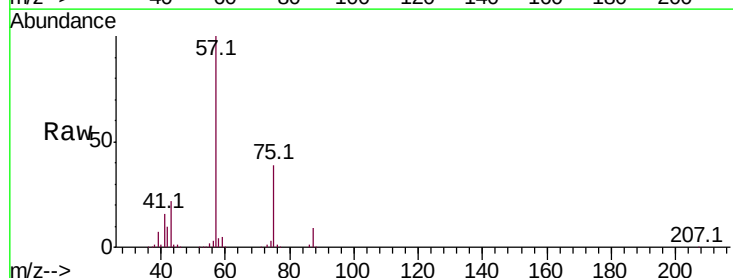
Acq: 17 Sep 2020 15:38

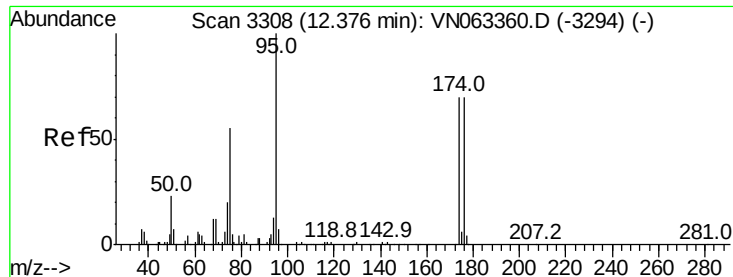
Tgt Ion: 43 Resp: 102172

Ion Ratio Lower Upper

43 100

58 17.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.474 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

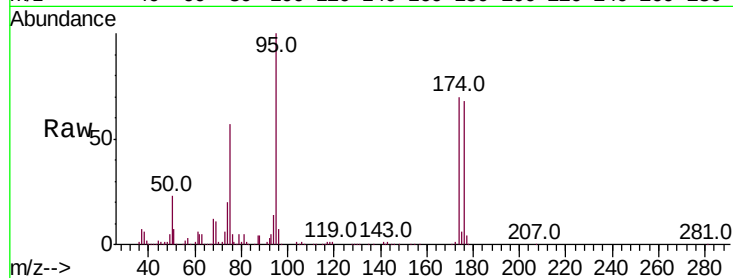
Tot Ion: 95 Resp: 234267

Ion Ratio Lower Upper

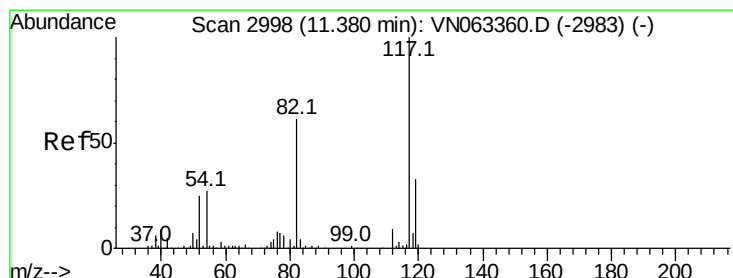
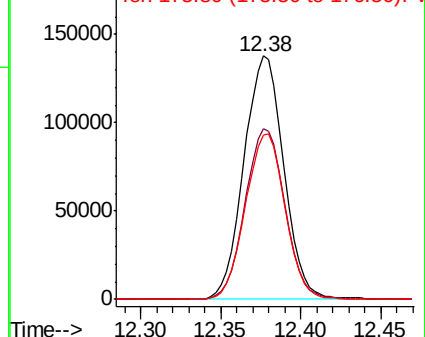
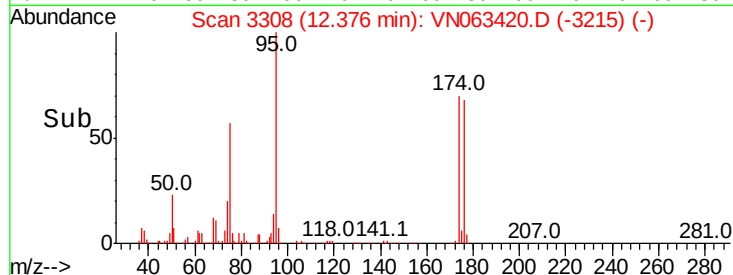
95 100

174 70.6 0.0 140.8

176 68.0 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063420.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

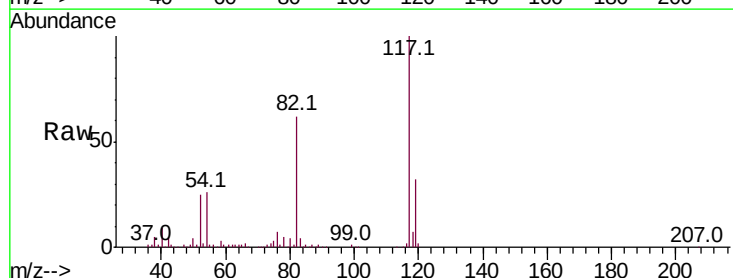
Tgt Ion: 117 Resp: 460099

Ion Ratio Lower Upper

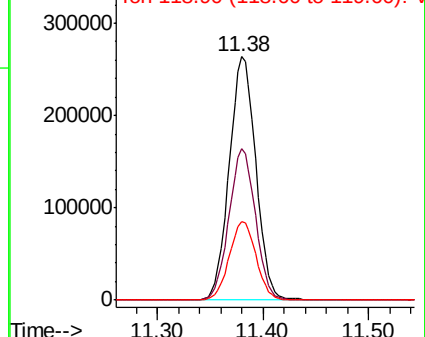
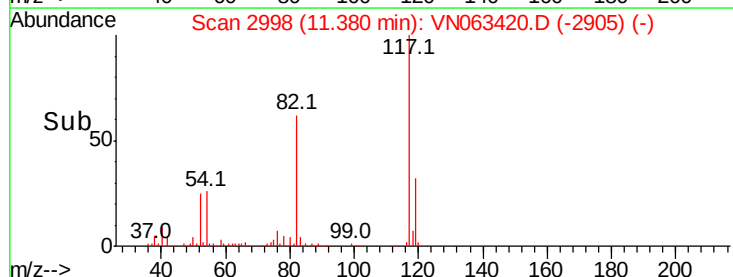
117 100

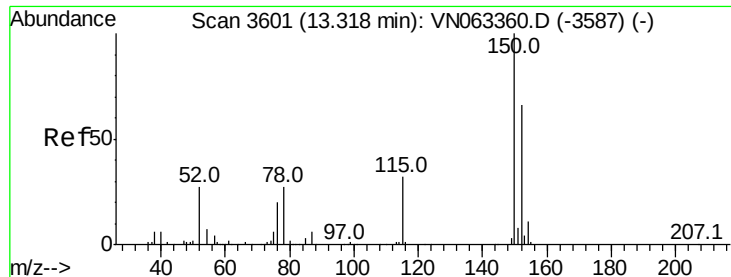
82 62.2 49.2 73.8

119 32.0 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN063420.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

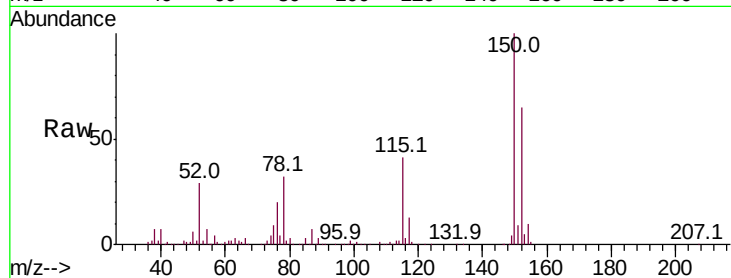
Tot Ion:152 Resp: 196298

Ion Ratio Lower Upper

152 100

115 62.8 32.2 96.6

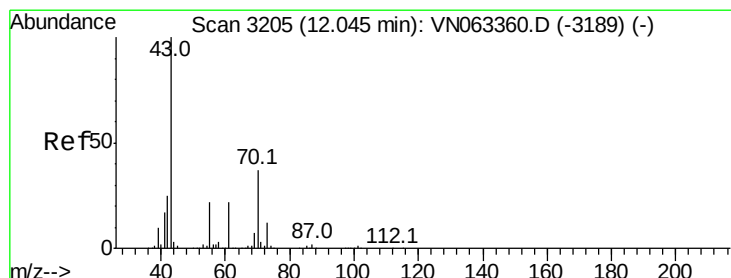
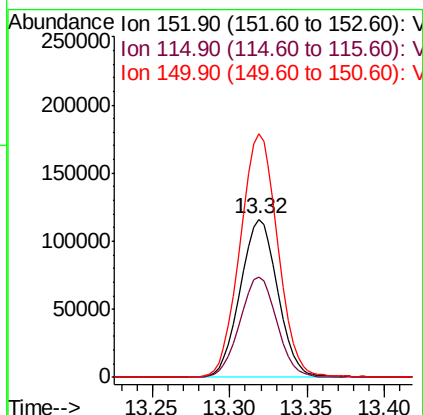
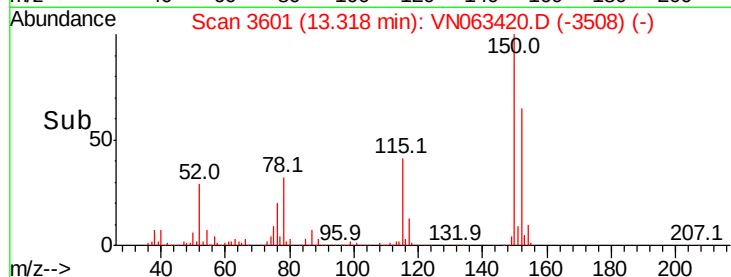
150 154.9 0.0 343.4



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-ethyl acetate

Concen: 0.673 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Tgt Ion: 43 Resp: 5012

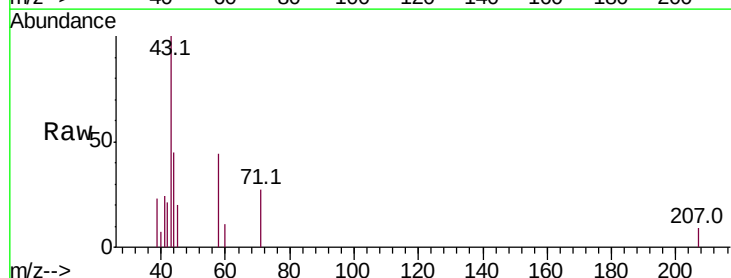
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 2.2 17.7 26.5#

61 0.0 17.4 26.2#

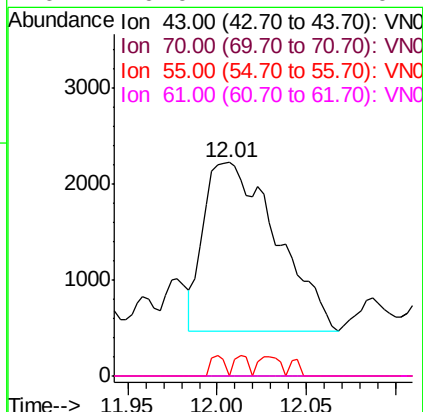
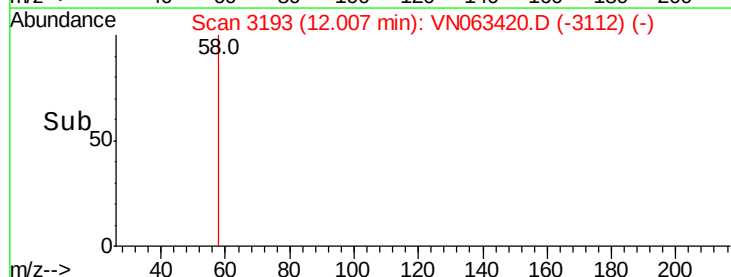


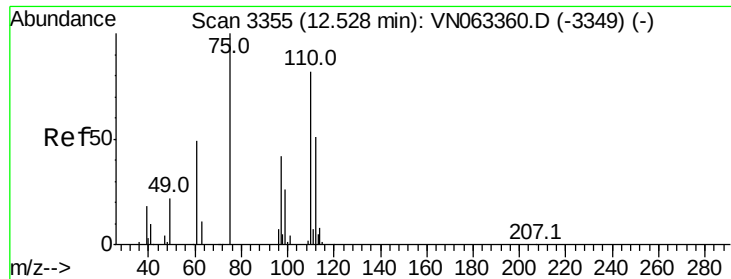
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.959 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

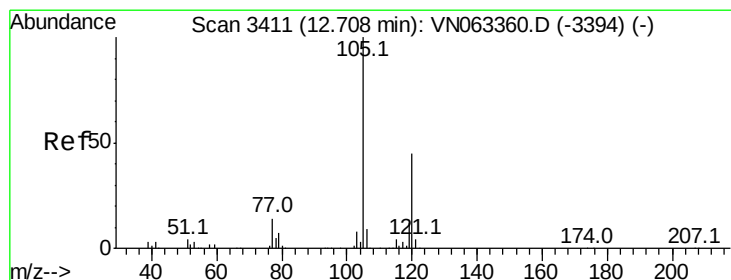
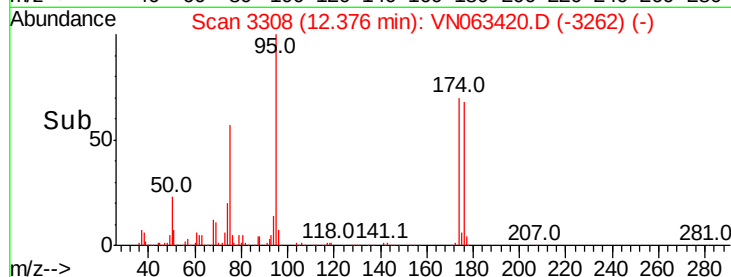
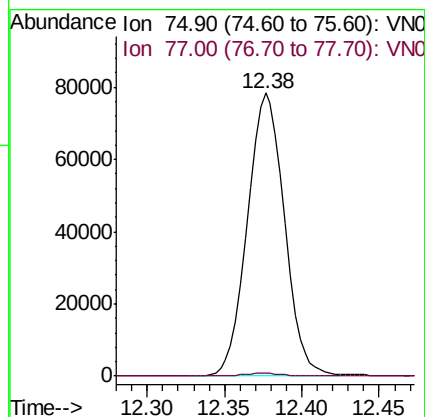
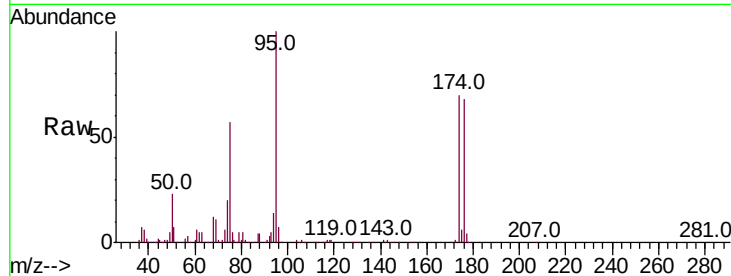
PB131674ZHE#03

Tot Ion: 75 Resp: 130986

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.345 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063420.D

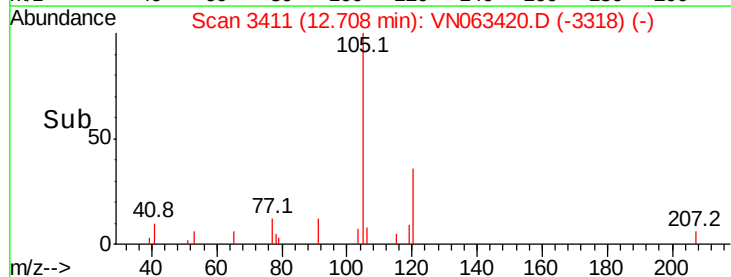
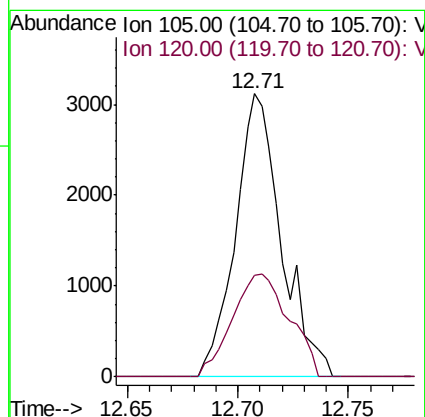
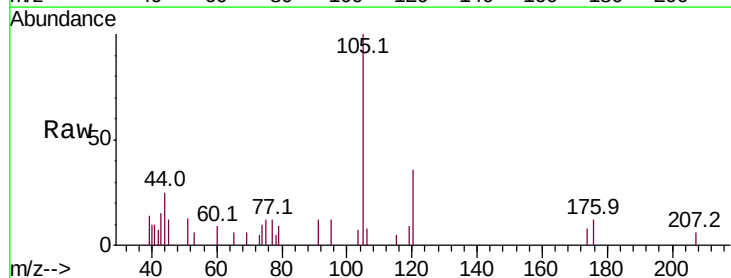
Acq: 17 Sep 2020 15:38

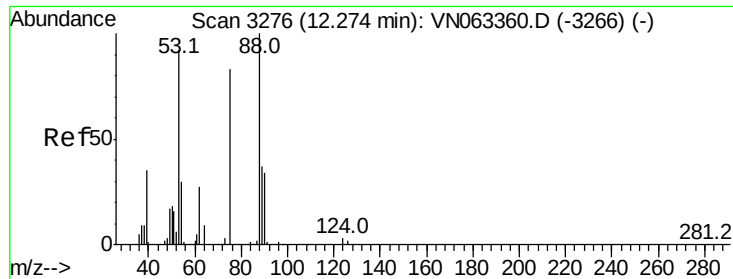
Tgt Ion: 105 Resp: 4529

Ion Ratio Lower Upper

105 100

120 44.7 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 73.912 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063420.D

Acq: 17 Sep 2020 15:38

Instrument :

MSVOA_N

ClientSampleId :

PB131674ZHE#03

Tot Ion: 75 Resp: 130986

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

