

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063570.D
 Acq On : 23 Sep 2020 7:16
 Operator : JC/MD
 Sample : L3864-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092120

Quant Time: Sep 23 07:39:29 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	208634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	401700	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	406282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	173080	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	179684	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	7.55	113	131488	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	
50) Toluene-d8	10.06	98	515524	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.38	95	198310	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	

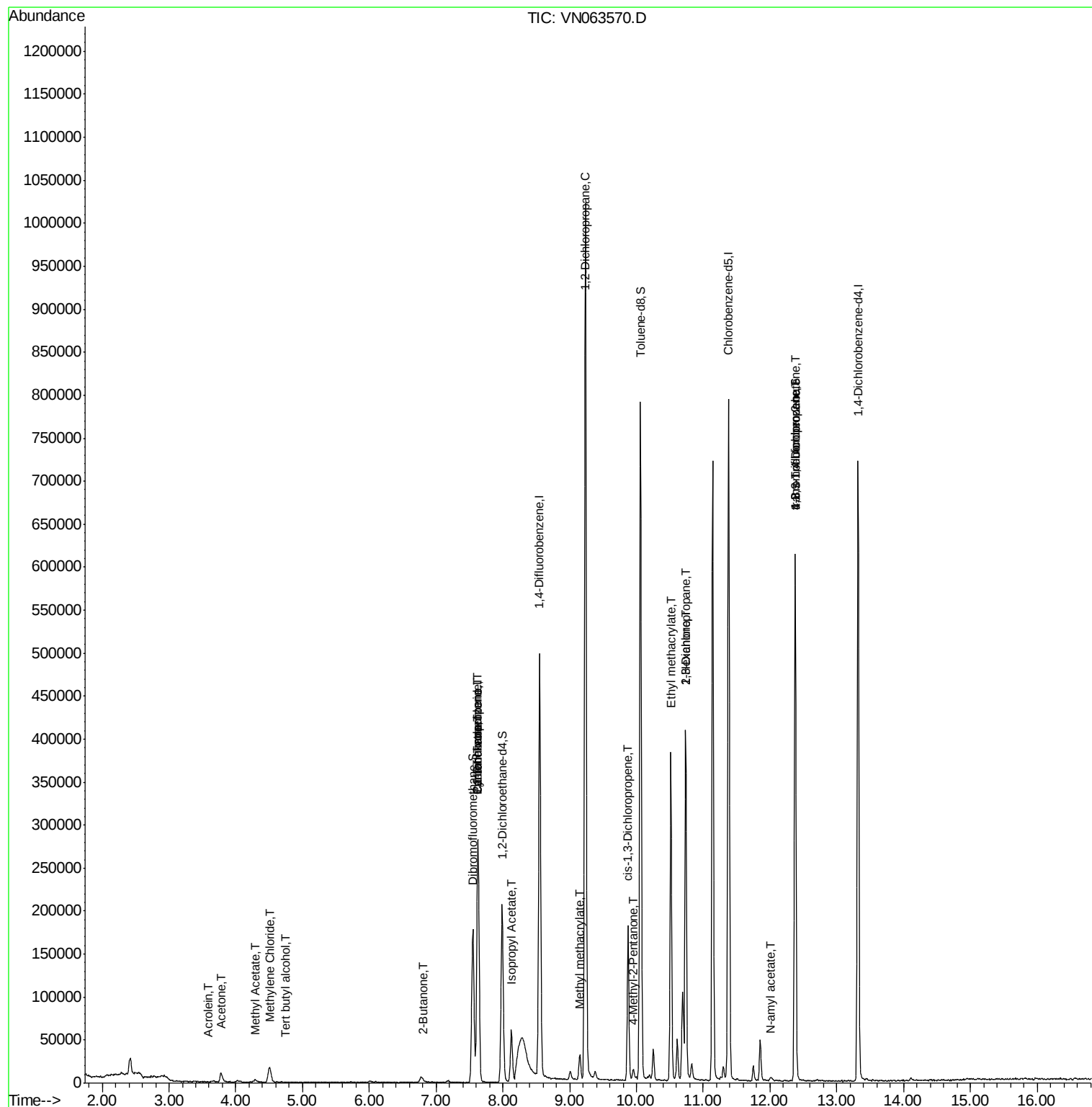
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	246	0.500	ug/l #	72
13) Acrolein	3.58	56	79	0.433	ug/l #	13
16) Acetone	3.78	43	19898	17.433	ug/l	96
18) Methyl Acetate	4.29	43	3758	1.297	ug/l #	76
20) Methylene Chloride	4.51	84	13240	4.578	ug/l	93
25) 2-Butanone	6.81	43	2517	1.434	ug/l	97
31) Cyclohexane	7.63	56	6489	1.323	ug/l #	40
36) 1,1-Dichloropropene	7.62	75	19683	4.599	ug/l #	52
38) Carbon Tetrachloride	7.63	117	23508	5.381	ug/l #	18
43) Isopropyl Acetate	8.13	43	73131	9.737	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1164	0.350	ug/l #	43
48) Methyl methacrylate	9.15	41	4914	1.332	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	10003	2.379	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	28847	5.392	ug/l #	68
56) Ethyl methacrylate	10.51	69	1714	0.376	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3854	0.733	ug/l #	42
59) 2-Hexanone	10.74	43	61446	20.172	ug/l #	56
74) N-amyl acetate	12.01	43	4123	0.628	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	113082	26.397	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113082	72.369	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: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

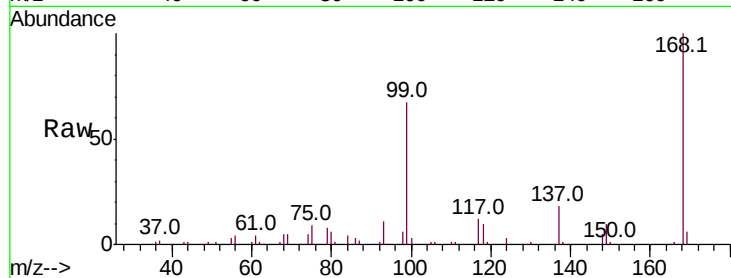
CL-02-092120

Tot Ion:168 Resp: 208634

Ion Ratio Lower Upper

168 100

99 67.4 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

80000

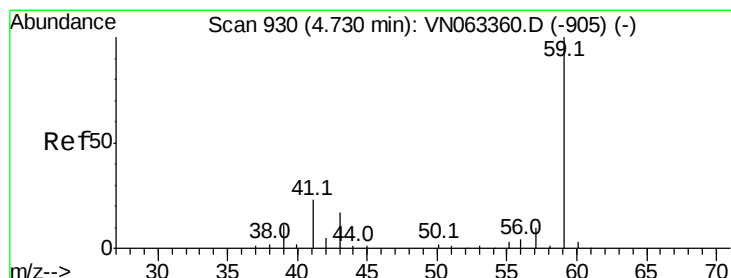
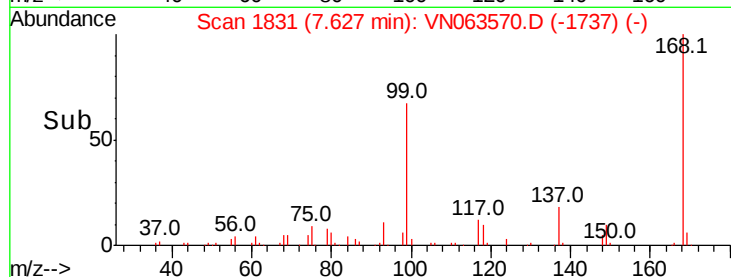
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.500 ug/l

RT: 4.74 min Scan# 934

Delta R.T. 0.01 min

Lab File: VN063570.D

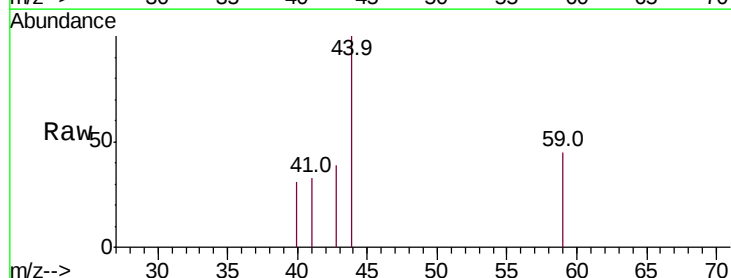
Acq: 23 Sep 2020 7:16

Tgt Ion: 59 Resp: 246

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) (-)

4.74

250

200

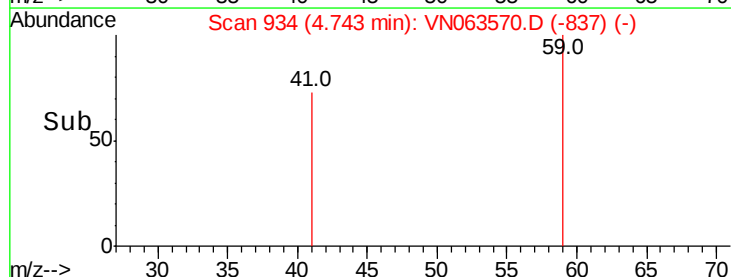
150

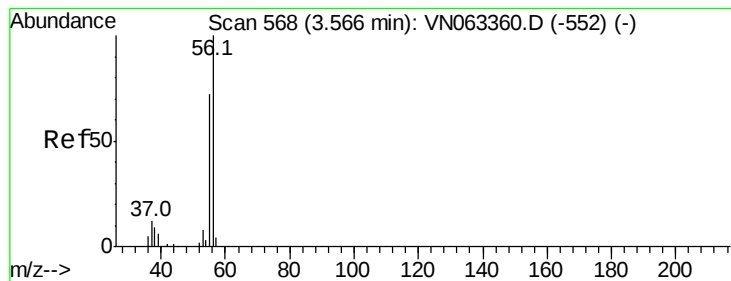
100

50

0

Time--> 4.72 4.74 4.76





#13

Acrolein

Concen: 0.433 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

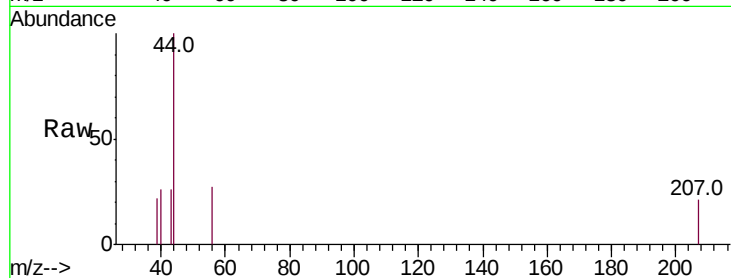
CL-02-092120

Tot Ion: 56 Resp: 79

Ion Ratio Lower Upper

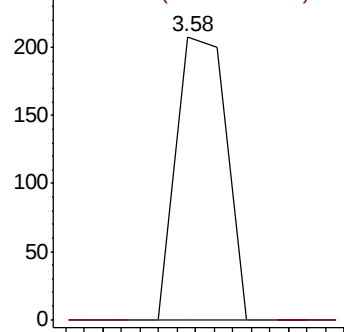
56 100

55 0.0 58.2 87.2#

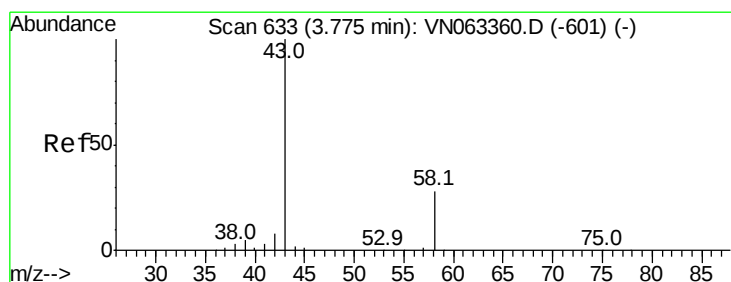
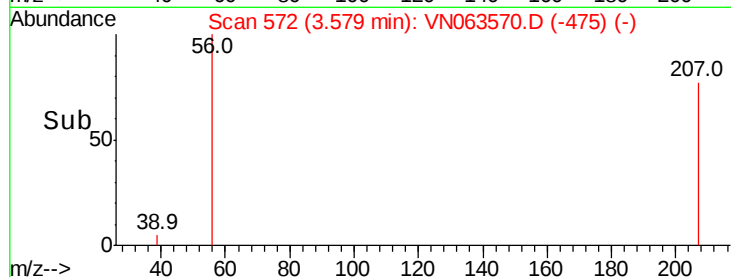


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 17.433 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063570.D

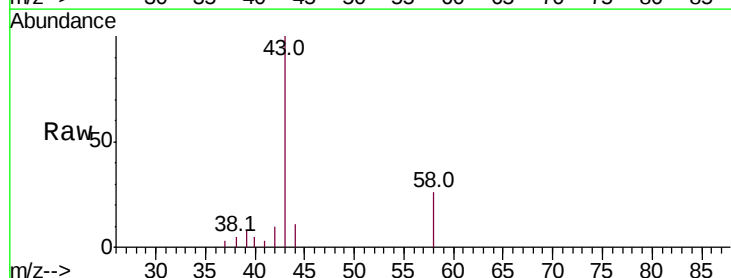
Acq: 23 Sep 2020 7:16

Tgt Ion: 43 Resp: 19898

Ion Ratio Lower Upper

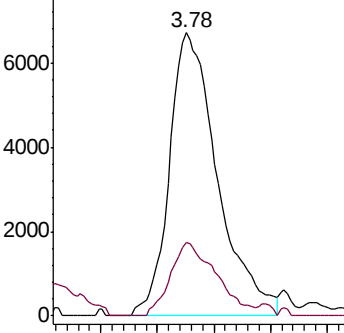
43 100

58 25.8 22.3 33.5

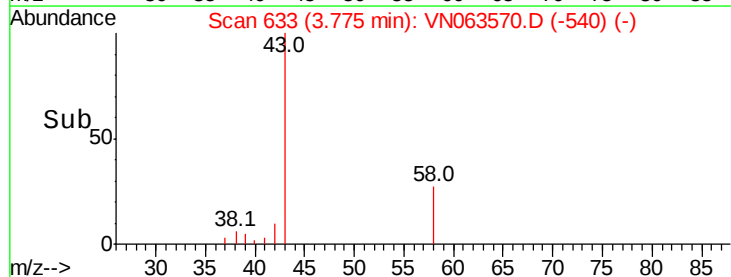


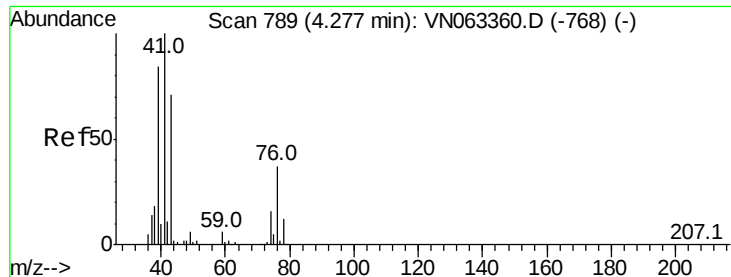
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

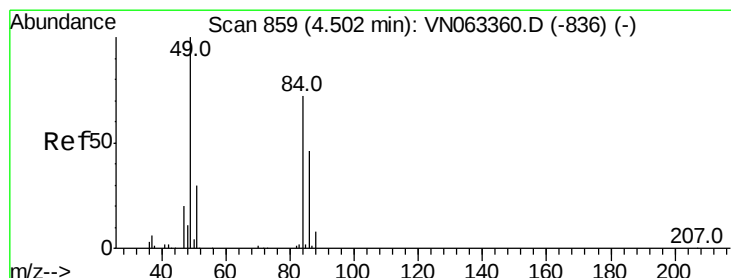
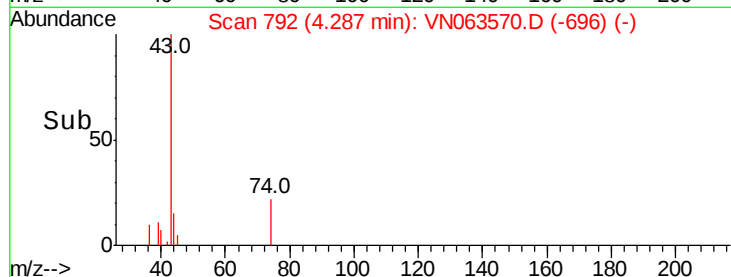
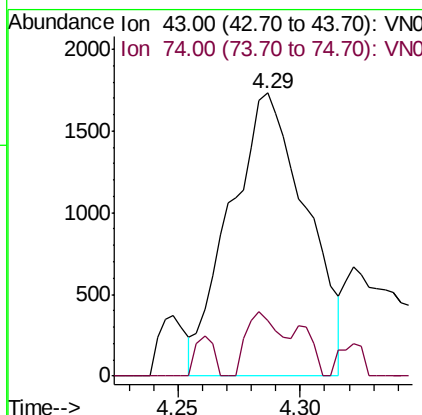
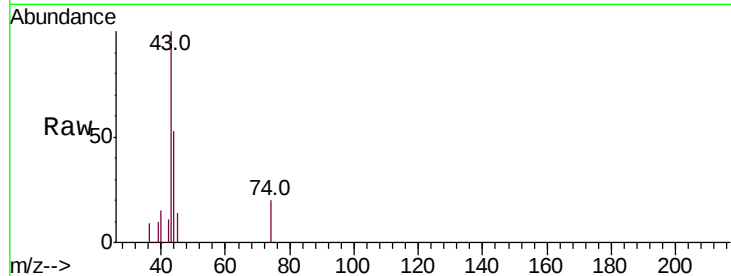




#18
Methvl Acetate
Concen: 1.297 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

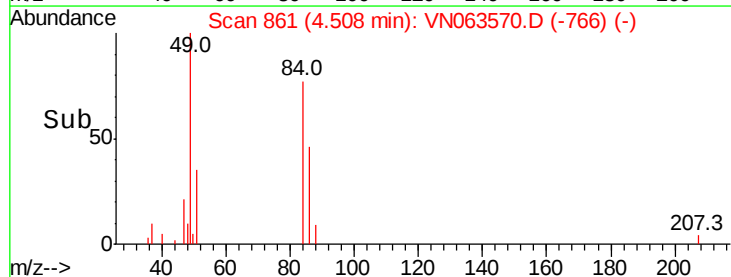
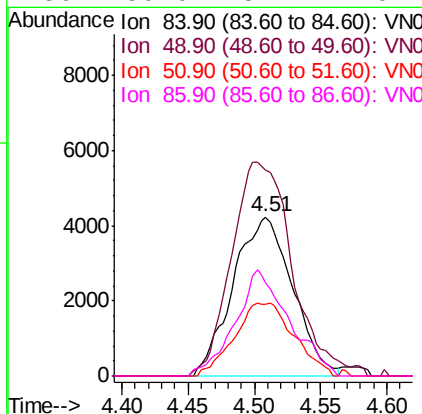
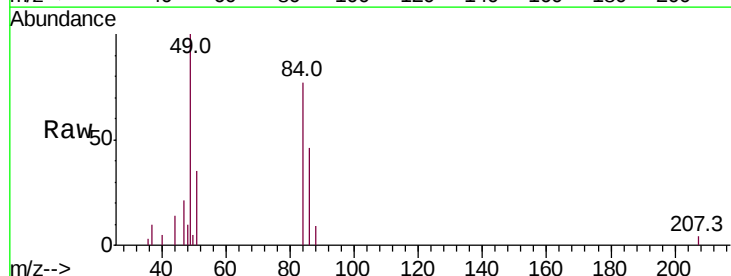
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092120

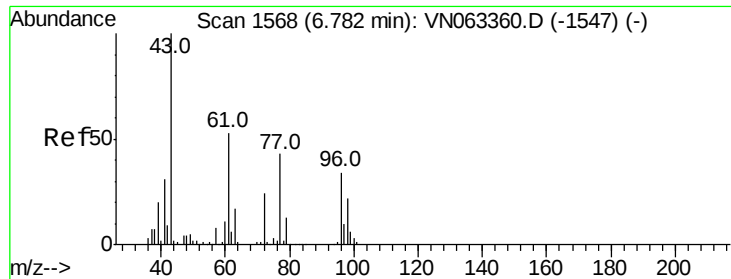
Tot Ion: 43 Resp: 3758
Ion Ratio Lower Upper
43 100
74 10.6 17.4 26.2#



#20
Methylene Chloride
Concen: 4.578 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

Tgt Ion: 84 Resp: 13240
Ion Ratio Lower Upper
84 100
49 129.5 110.7 166.1
51 45.2 32.9 49.3
86 59.0 51.1 76.7

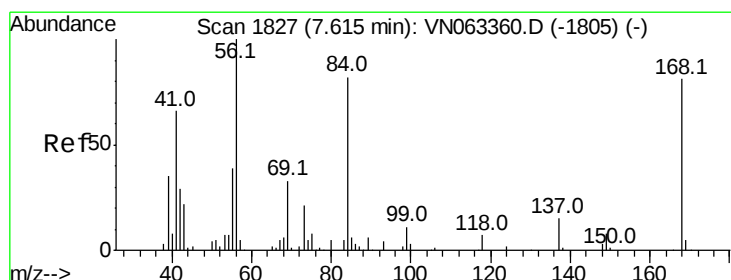
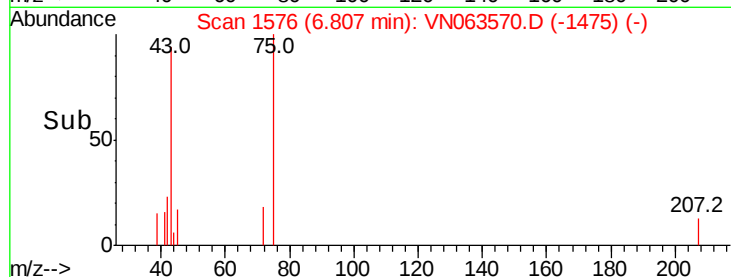
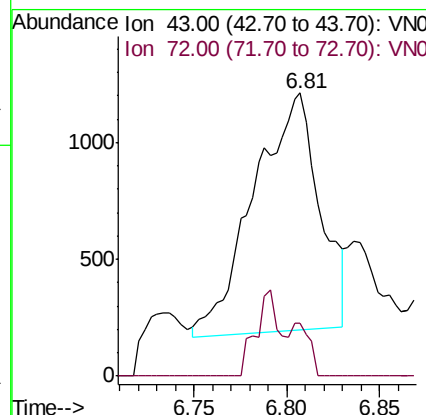
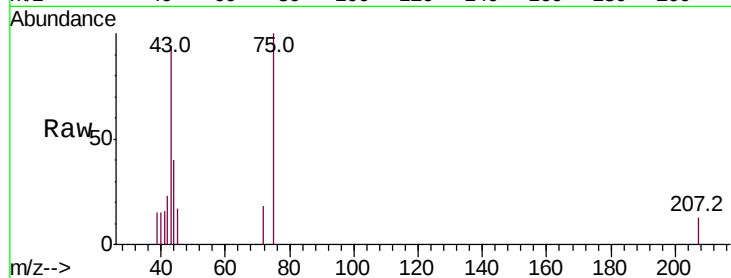




#25
2-Butanone
Concen: 1.434 ug/l
RT: 6.81 min Scan# 1576
Delta R.T. 0.03 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

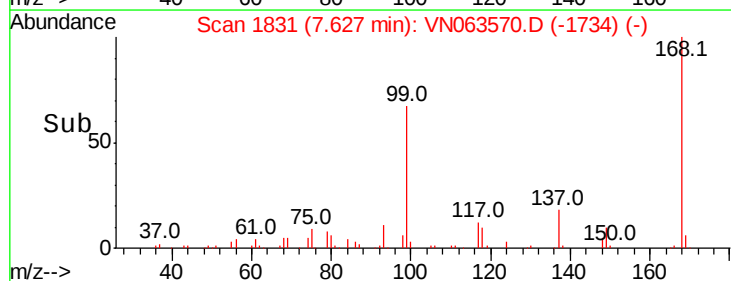
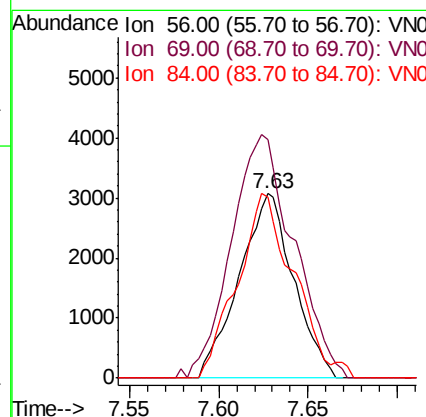
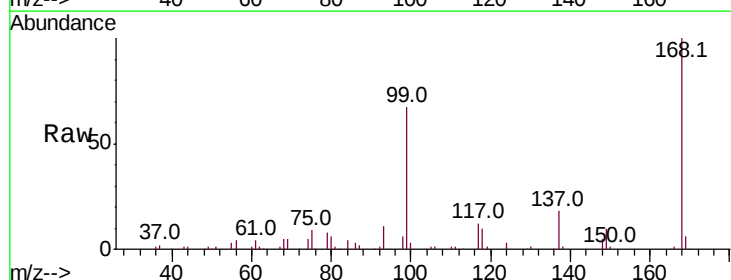
Instrument :
MSVOA_N
ClientSampled :
CL-02-092120

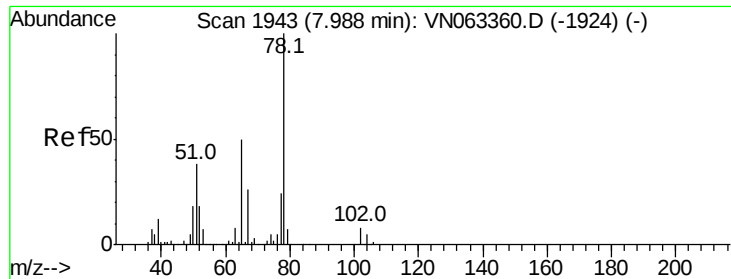
Tot Ion: 43 Resp: 2517
Ion Ratio Lower Upper
43 100
72 22.7 19.2 28.8



#31
Cyclohexane
Concen: 1.323 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

Tgt Ion: 56 Resp: 6489
Ion Ratio Lower Upper
56 100
69 124.5 26.1 39.1#
84 98.3 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 50.594 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

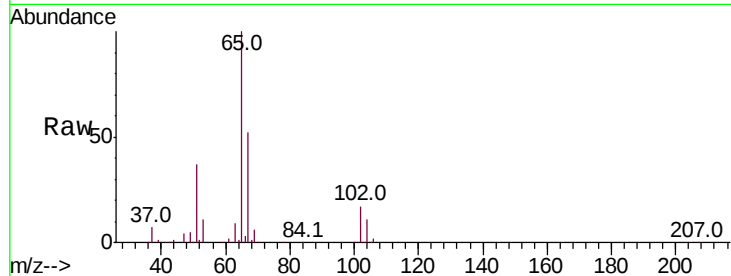
CL-02-092120

Tot Ion: 65 Resp: 179684

Ion Ratio Lower Upper

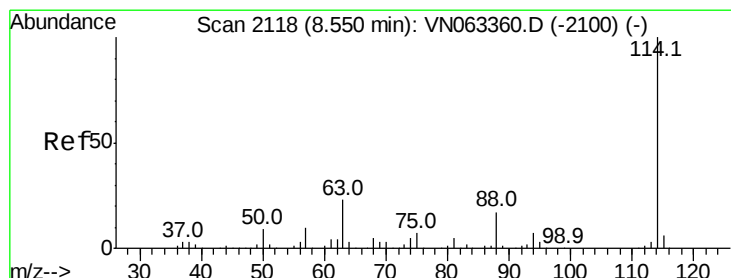
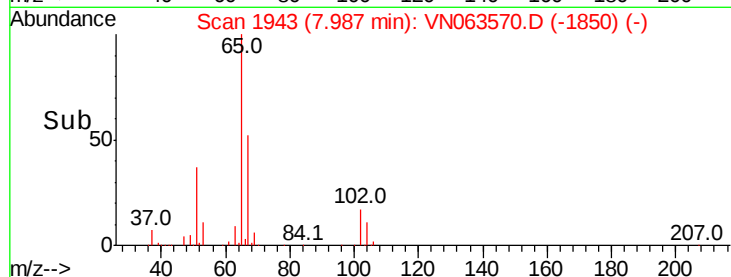
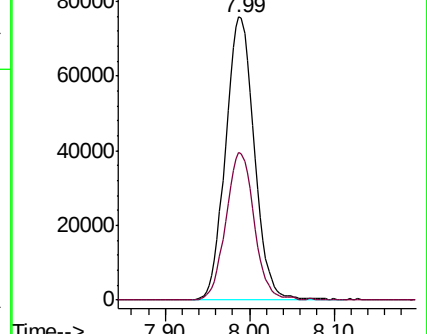
65 100

67 51.2 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

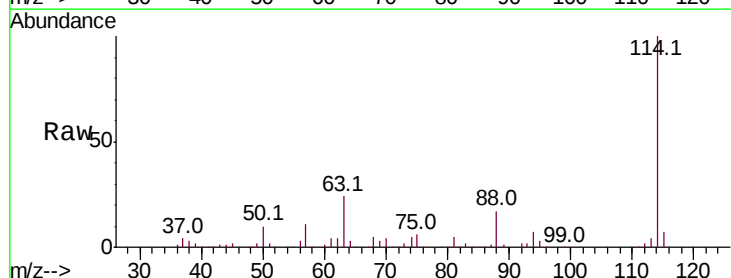
Tgt Ion: 114 Resp: 401700

Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.4

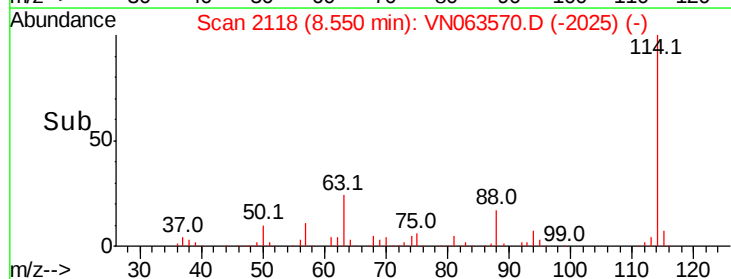
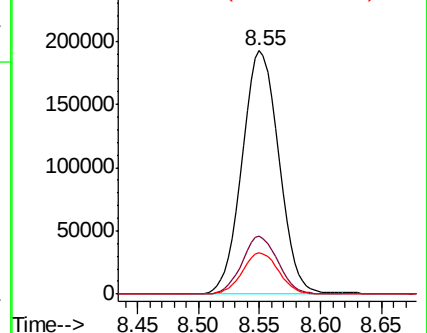
88 16.8 0.0 33.2

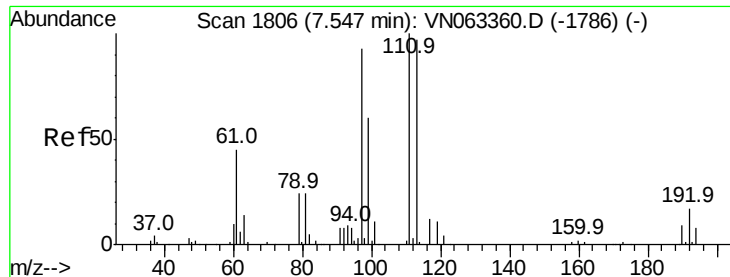


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





#35

Dibromofluoromethane

Concen: 47.283 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

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CL-02-092120

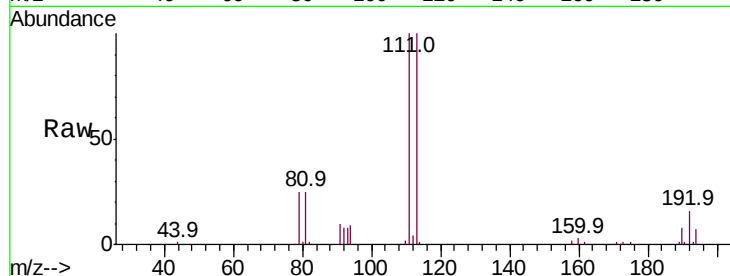
Tot Ion:113 Resp: 131488

Ion Ratio Lower Upper

113 100

111 100.5 82.9 124.3

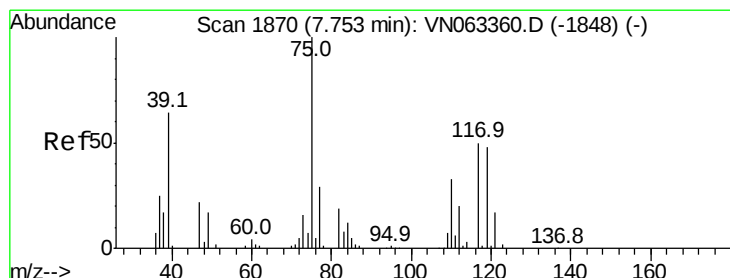
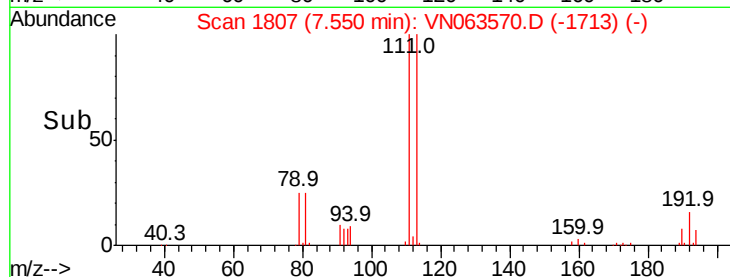
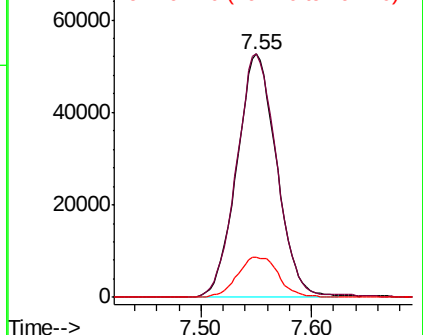
192 17.2 13.9 20.9



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: 4.599 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

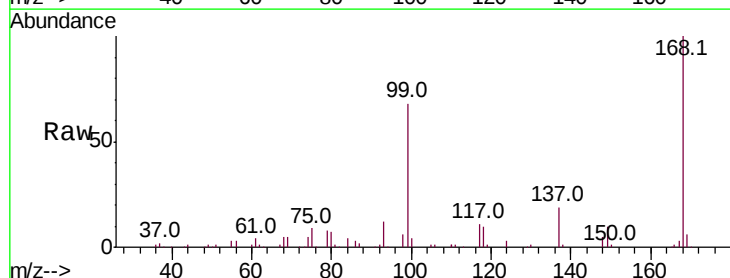
Tgt Ion: 75 Resp: 19683

Ion Ratio Lower Upper

75 100

110 9.9 16.5 49.5#

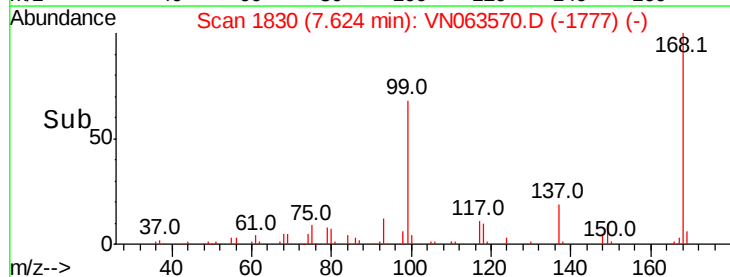
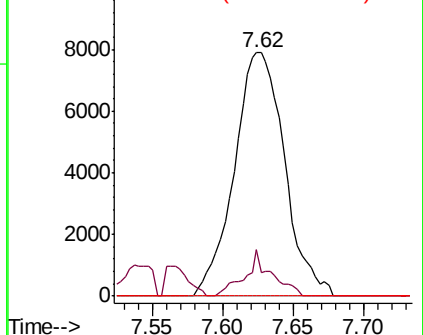
77 0.0 24.6 36.8#

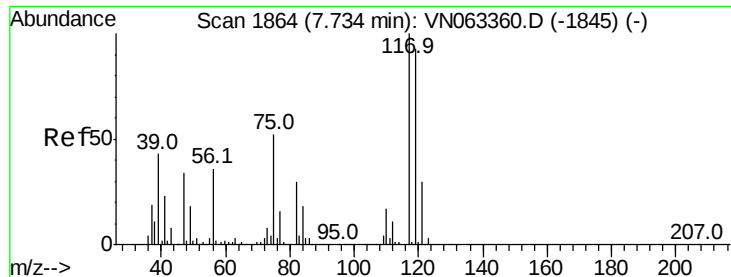


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

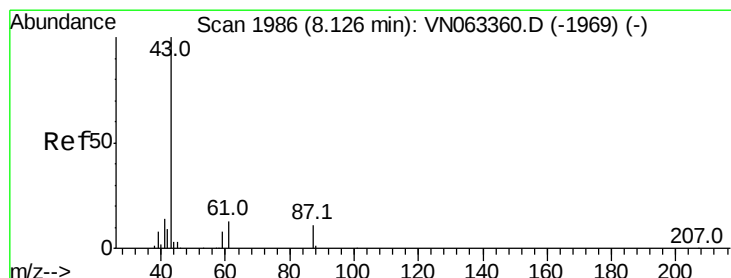
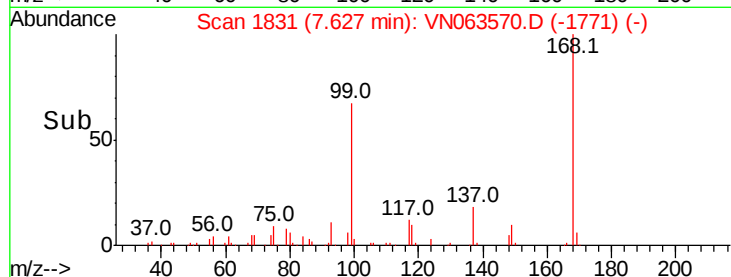
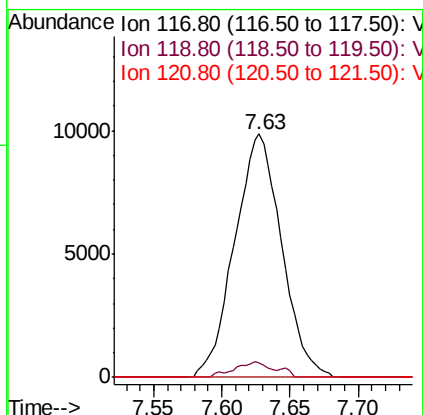
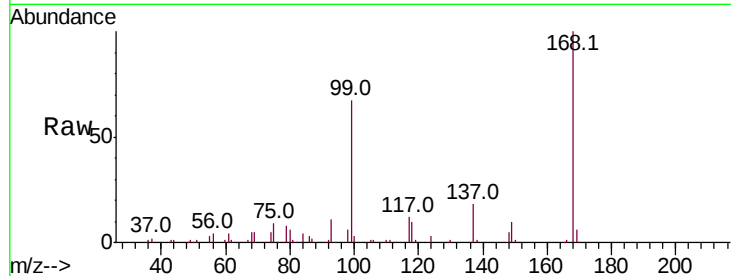




#38
Carbon Tetrachloride
Concen: 5.381 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

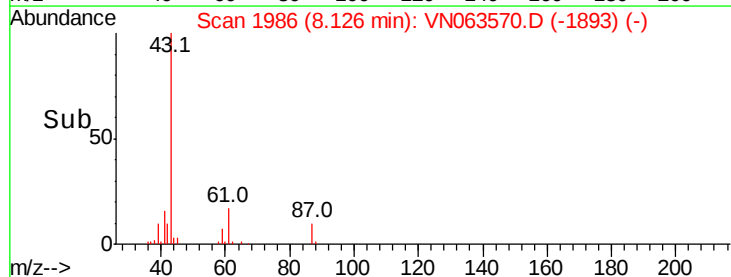
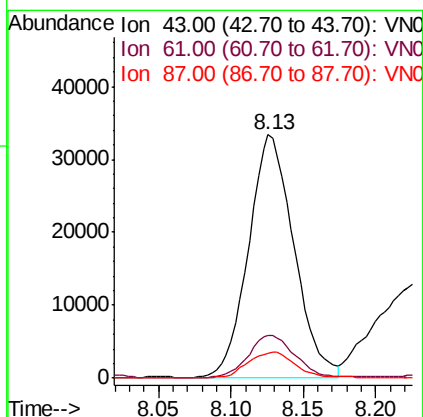
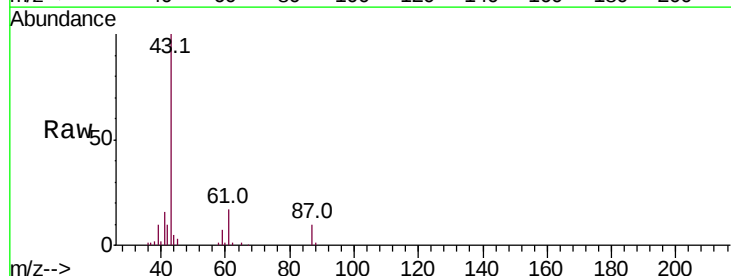
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092120

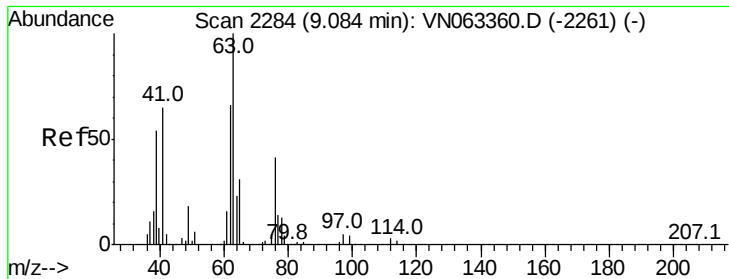
Tot Ion:117 Resp: 23508
Ion Ratio Lower Upper
117 100
119 5.8 74.5 111.7#
121 0.0 24.1 36.1#



#43
Isopropyl Acetate
Concen: 9.737 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063570.D
Acq: 23 Sep 2020 7:16

Tgt Ion: 43 Resp: 73131
Ion Ratio Lower Upper
43 100
61 18.0 14.2 21.2
87 10.9 9.0 13.6





#45

1,2-Dichloropropane

Concen: 0.350 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

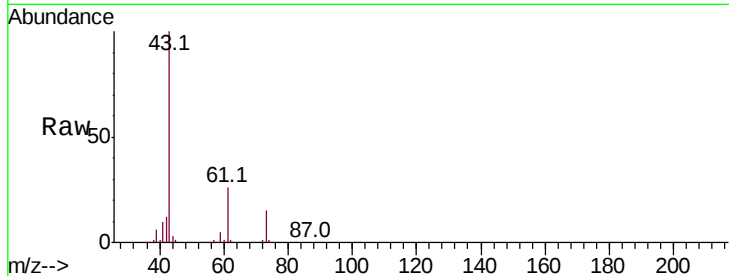
CL-02-092120

Tot Ion: 63 Resp: 1164

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

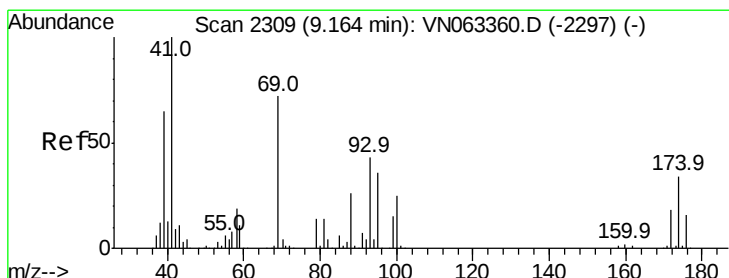
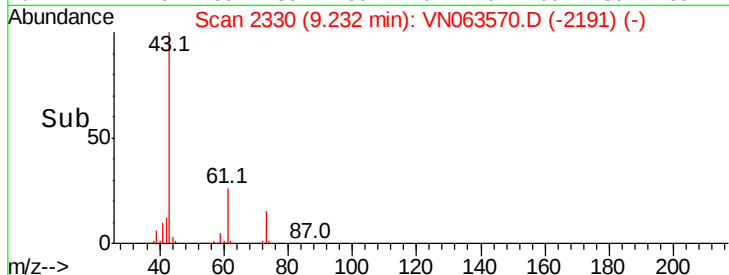
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.332 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

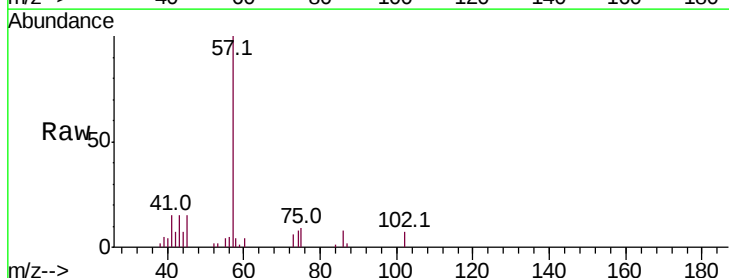
Tgt Ion: 41 Resp: 4914

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

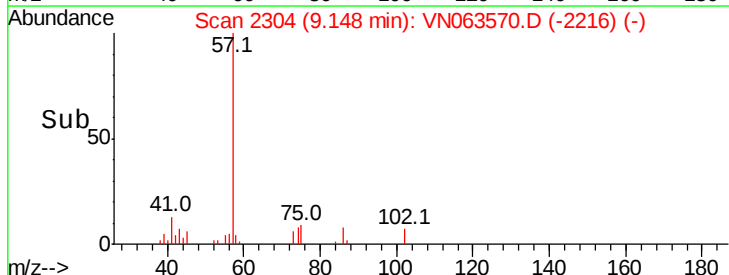
60000

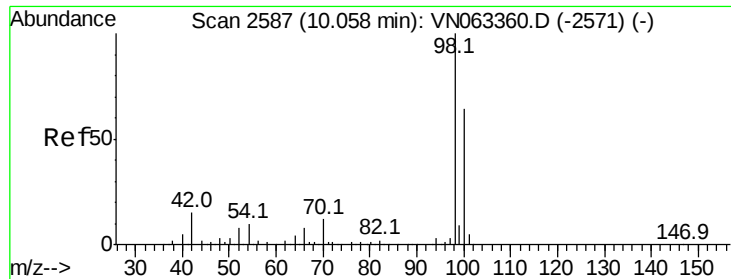
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 49.301 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

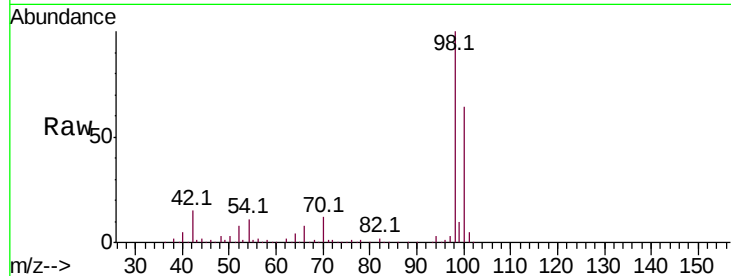
CL-02-092120

Tot Ion: 98 Resp: 515524

Ion Ratio Lower Upper

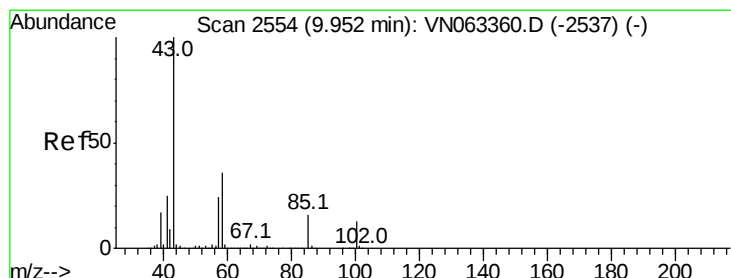
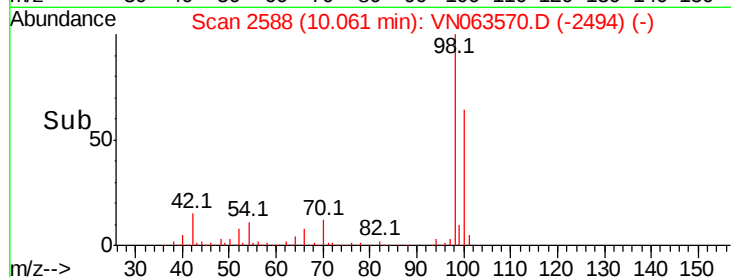
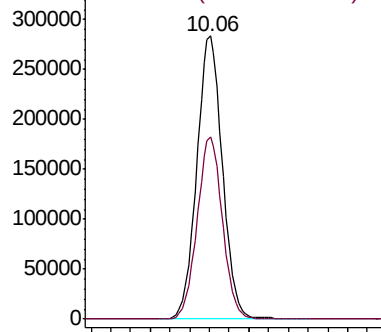
98 100

100 63.7 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: 2.379 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063570.D

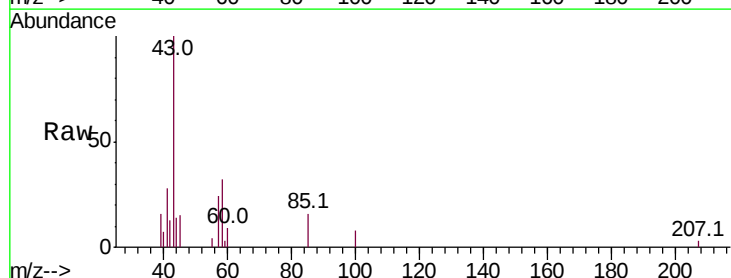
Acq: 23 Sep 2020 7:16

Tgt Ion: 43 Resp: 10003

Ion Ratio Lower Upper

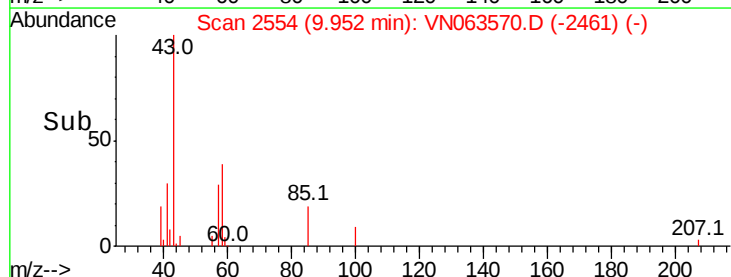
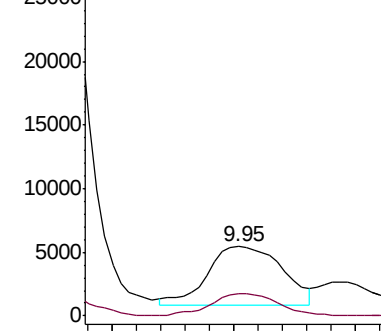
43 100

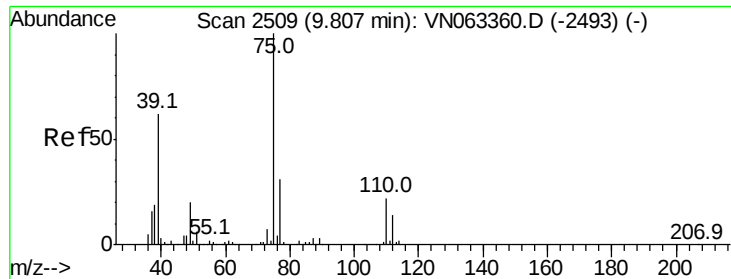
58 33.6 29.0 43.6



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: 5.392 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092120

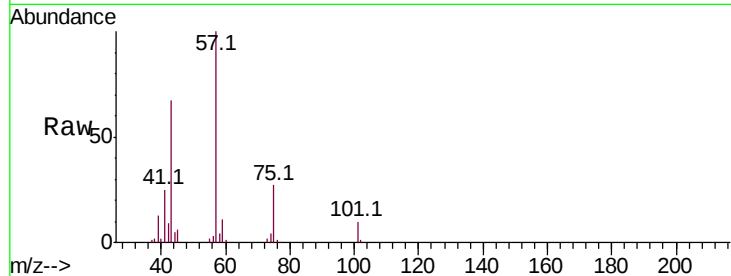
Tot Ion: 75 Resp: 28847

Ion Ratio Lower Upper

75 100

77 1.2 24.6 37.0#

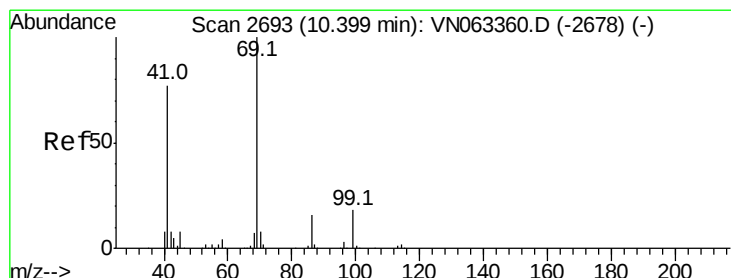
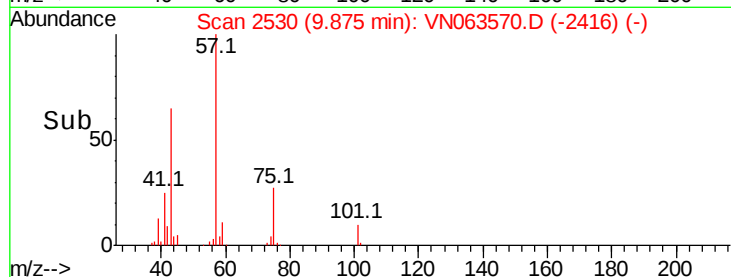
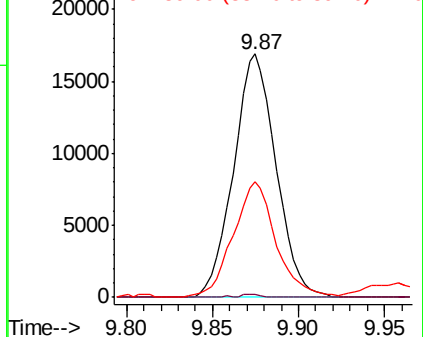
39 46.3 49.8 74.8#



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: 0.376 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

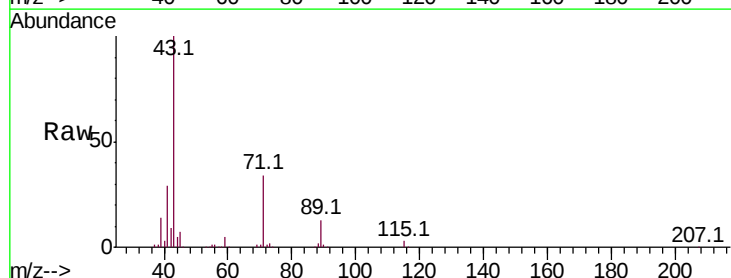
Tgt Ion: 69 Resp: 1714

Ion Ratio Lower Upper

69 100

41 4690.5 61.0 91.6#

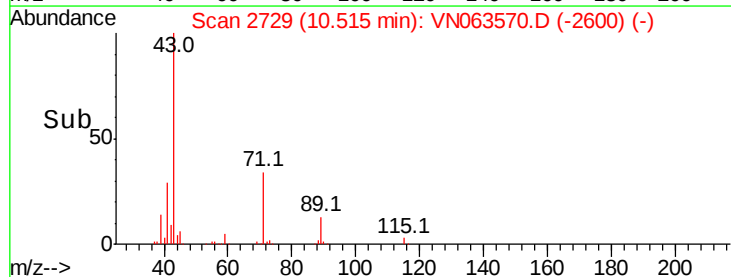
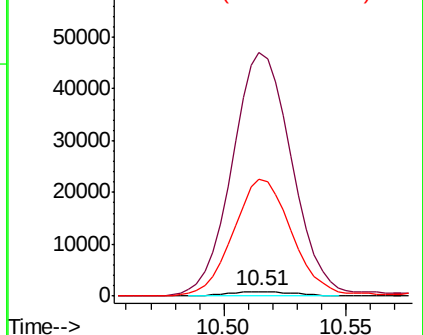
39 2216.6 39.2 58.8#

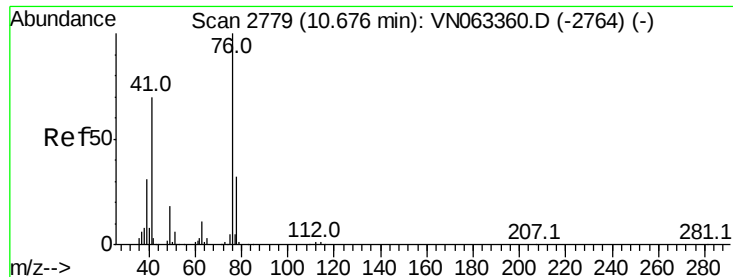


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.733 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

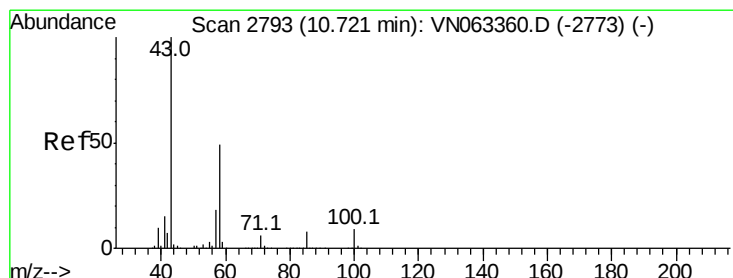
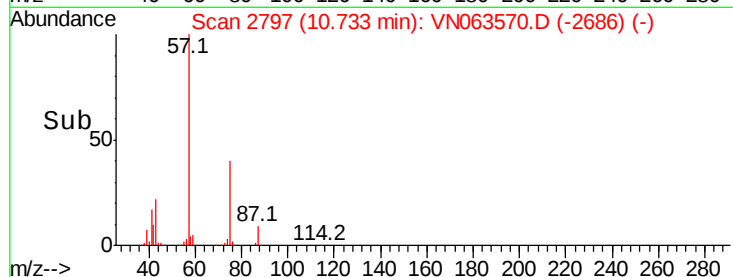
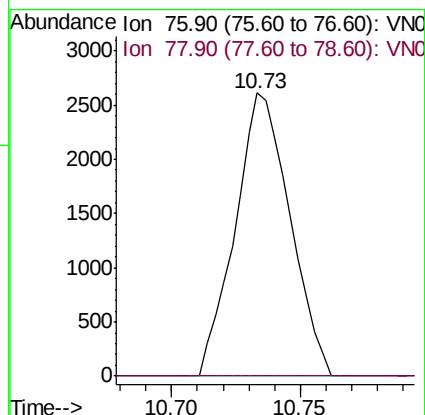
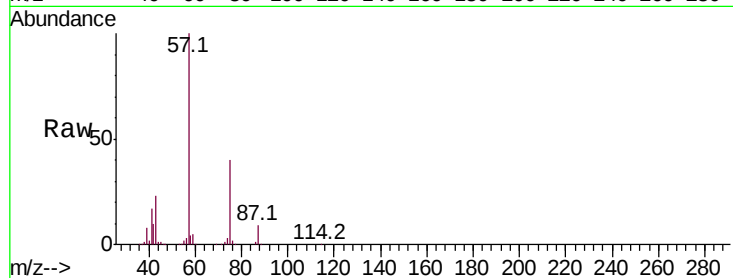
CL-02-092120

Tot Ion: 76 Resp: 3854

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 20.172 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063570.D

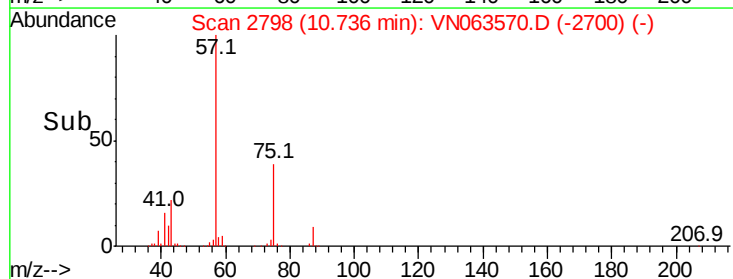
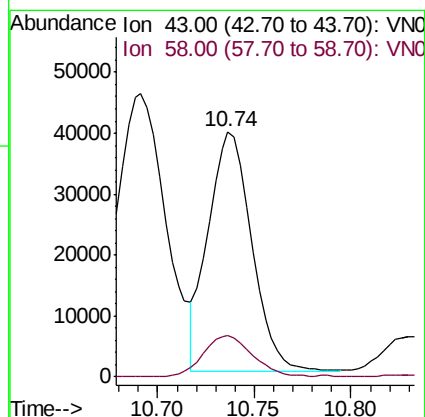
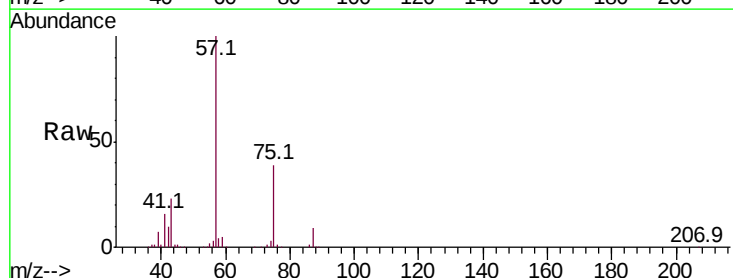
Acq: 23 Sep 2020 7:16

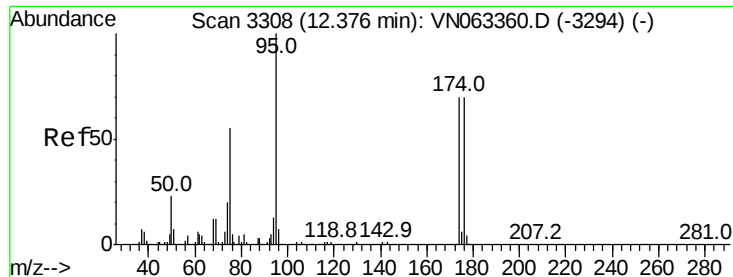
Tgt Ion: 43 Resp: 61446

Ion Ratio Lower Upper

43 100

58 19.5 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 51.735 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092120

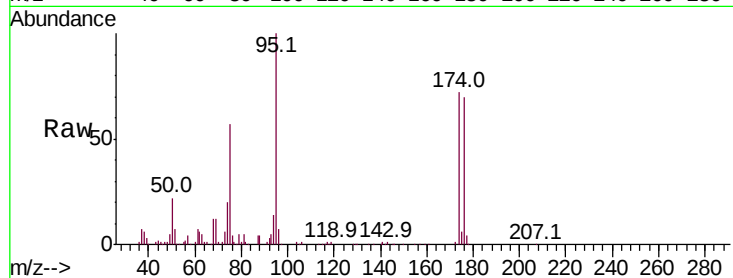
Tot Ion: 95 Resp: 198310

Ion Ratio Lower Upper

95 100

174 72.9 0.0 140.8

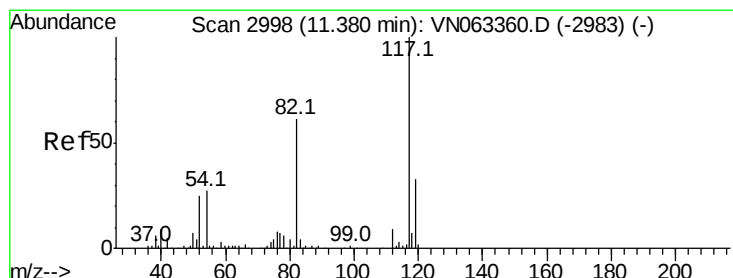
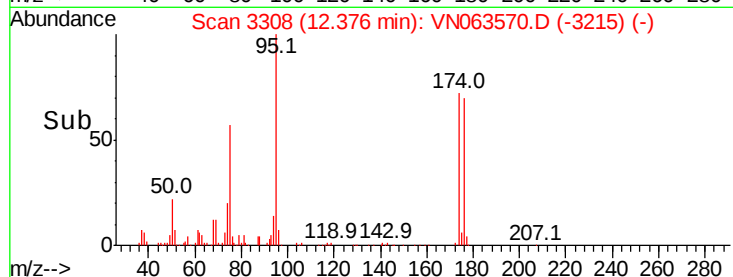
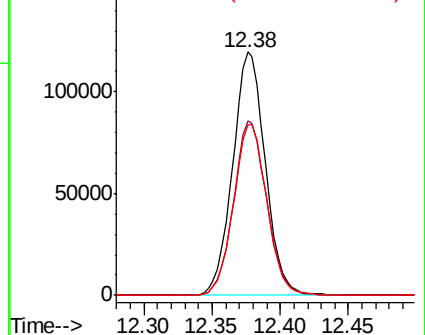
176 71.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

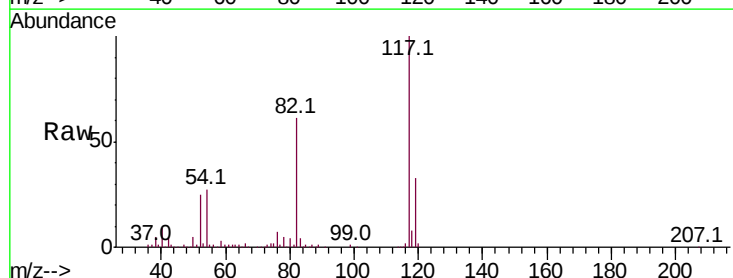
Tgt Ion: 117 Resp: 406282

Ion Ratio Lower Upper

117 100

82 61.3 49.2 73.8

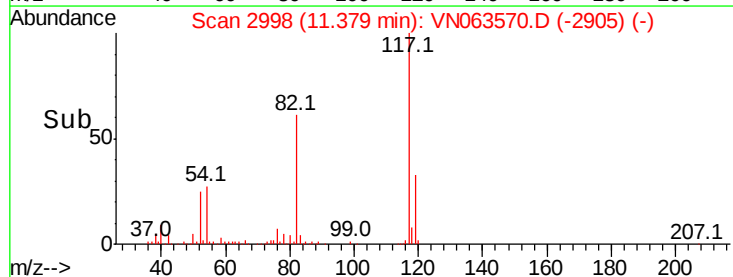
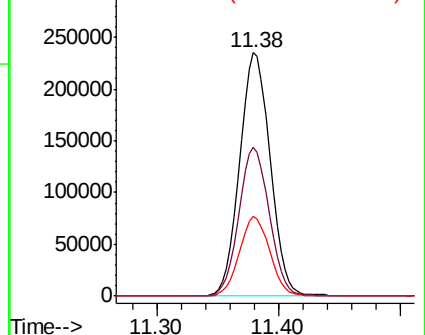
119 32.8 26.2 39.4

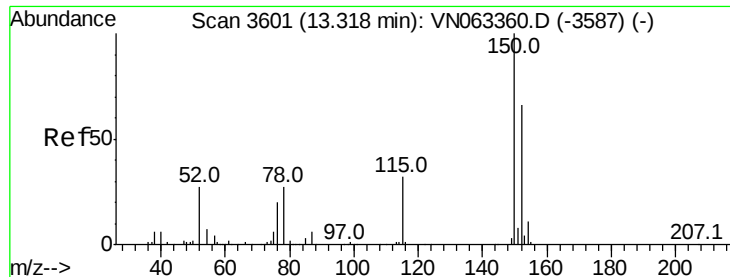


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092120

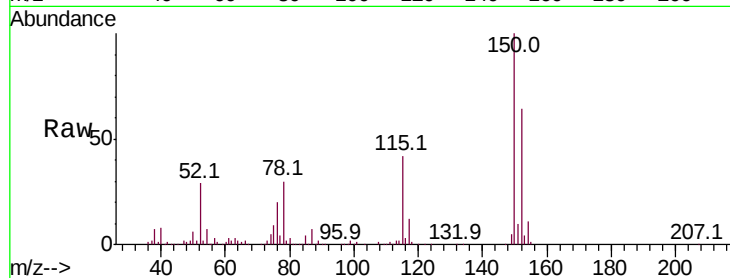
Tot Ion:152 Resp: 173080

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

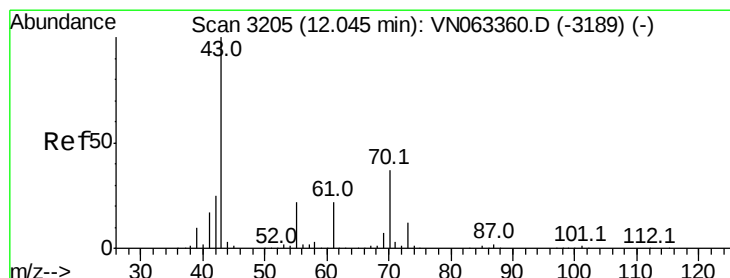
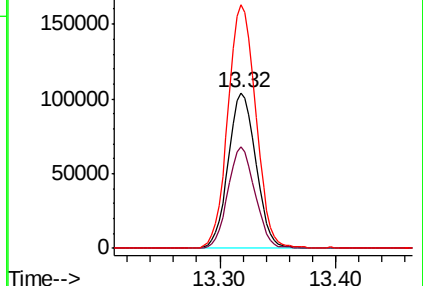
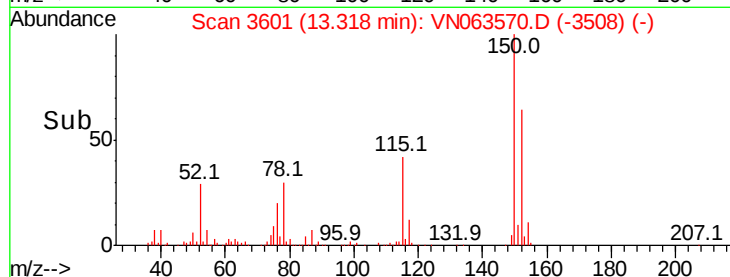
150 156.9 0.0 343.4



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: 0.628 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Tgt Ion: 43 Resp: 4123

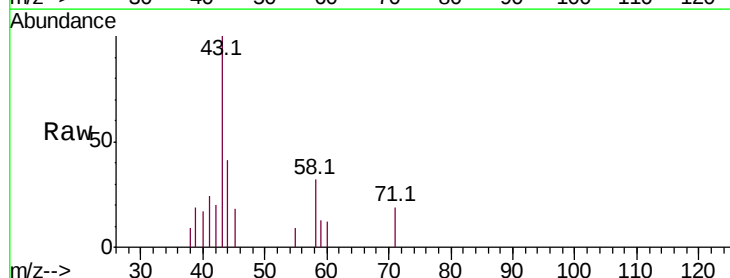
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 3.4 17.7 26.5#

61 0.0 17.4 26.2#

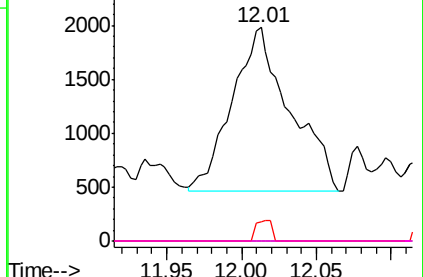
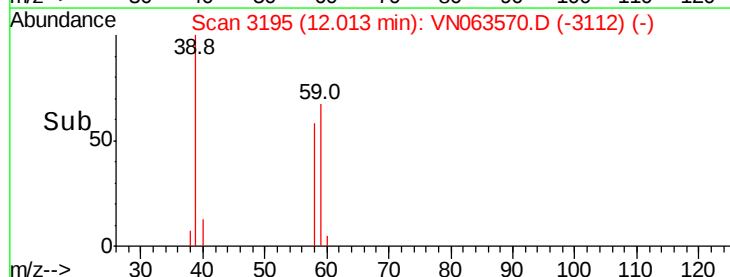


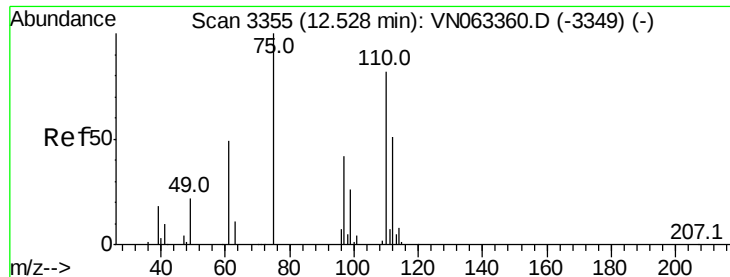
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.397 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Instrument :

MSVOA_N

ClientSampleId :

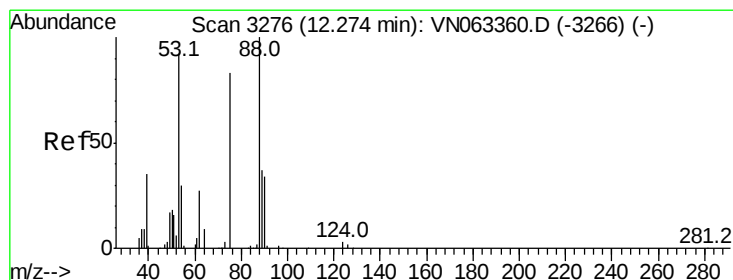
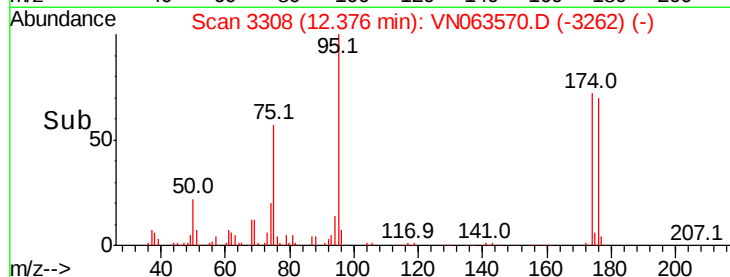
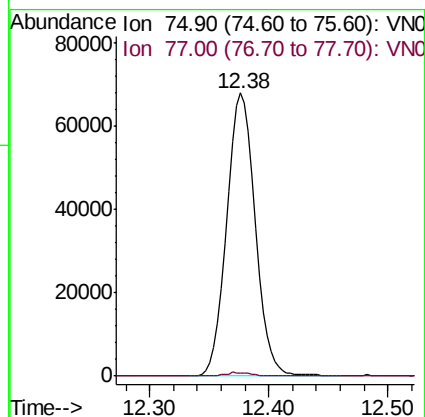
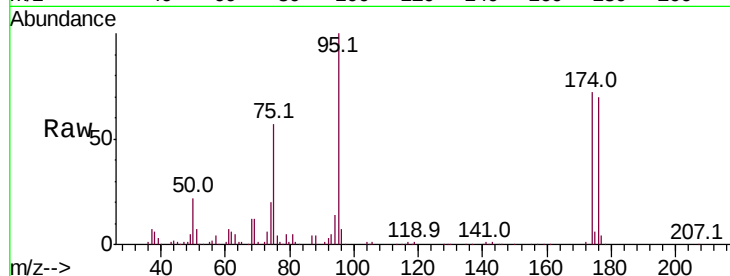
CL-02-092120

Tot Ion: 75 Resp: 113082

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.369 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063570.D

Acq: 23 Sep 2020 7:16

Tgt Ion: 75 Resp: 113082

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.1 38.0 57.0#

