

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063170.D
 Acq On : 1 Sep 2020 21:17
 Operator : JC/MD
 Sample : L3851-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:06:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	358359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	693051	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	681941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	284086	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	281707	48.09	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.18%		
35) Dibromofluoromethane	7.55	113	217656	48.95	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.90%		
50) Toluene-d8	10.06	98	870502	50.87	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.74%		
62) 4-Bromofluorobenzene	12.38	95	315462	52.70	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.40%		

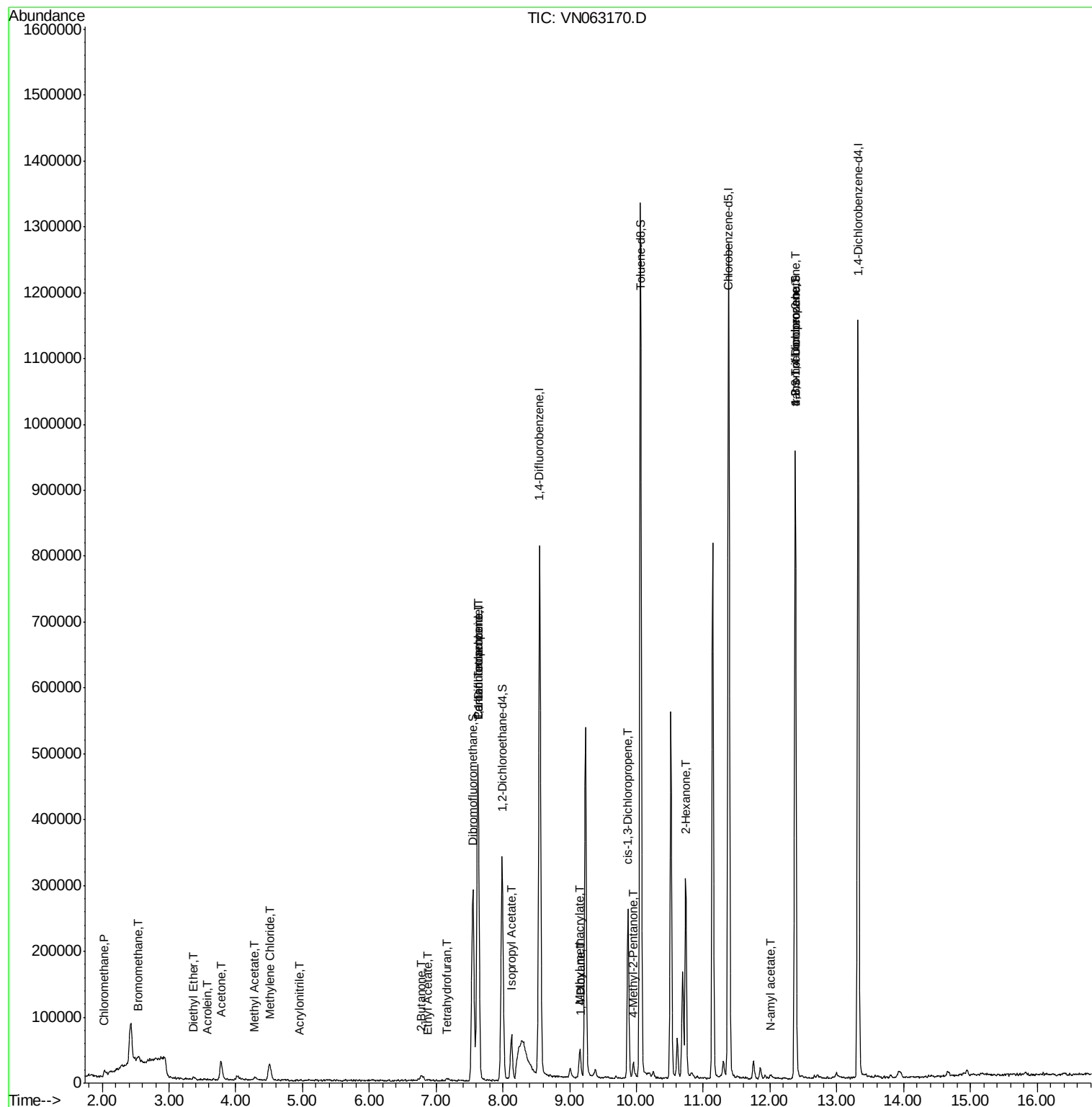
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2140	0.416	ug/l #	50
5) Bromomethane	2.54	94	1533	0.321	ug/l #	47
7) Trichlorofluoromethane	3.04	101	118	Below Cal	#	19
8) Diethyl Ether	3.37	74	2162	0.796	ug/l #	43
13) Acrolein	3.58	56	239	16.587	ug/l #	63
15) Acrylonitrile	4.95	53	114	2.460	ug/l #	40
16) Acetone	3.78	43	51358	30.840	ug/l	90
18) Methyl Acetate	4.29	43	7294	1.708	ug/l	95
20) Methylene Chloride	4.51	84	17819	3.346	ug/l	96
25) 2-Butanone	6.79	43	3879	1.504	ug/l #	68
29) Tetrahydrofuran	7.17	42	1842	1.033	ug/l #	61
31) Cyclohexane	7.63	56	10373	Below Cal	#	35
36) 1,1-Dichloropropene	7.62	75	32558	4.887	ug/l #	50
37) Ethyl Acetate	6.88	43	242	0.418	ug/l #	1
38) Carbon Tetrachloride	7.63	117	40492	5.993	ug/l #	15
43) Isopropyl Acetate	8.13	43	82663	7.608	ug/l #	89
48) Methyl methacrylate	9.14	41	6048	1.235	ug/l #	38
49) 1,4-Dioxane	9.18	88	251	3.313	ug/l #	25
51) 4-Methyl-2-Pentanone	9.95	43	20674	3.501	ug/l #	83
54) cis-1,3-Dichloropropene	9.87	75	43541	5.150	ug/l #	63
59) 2-Hexanone	10.74	43	44962	10.835	ug/l #	56
74) N-amyl acetate	12.02	43	3812	0.422	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	180397	32.319	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	180397	78.115	ug/l #	10

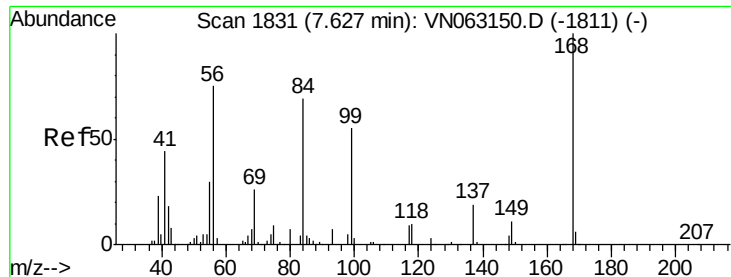
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 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: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

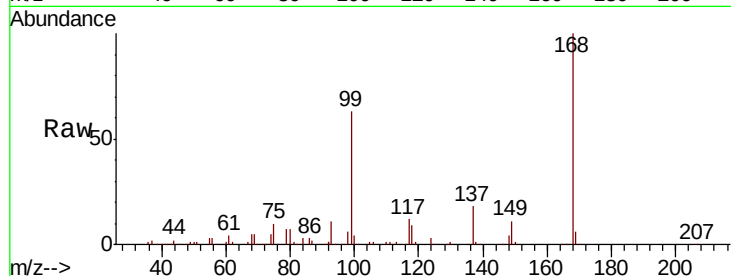
ClientSampled :

Tot Ion:168 Resp: 358359

Ion Ratio Lower Upper

168 100

99 62.9 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

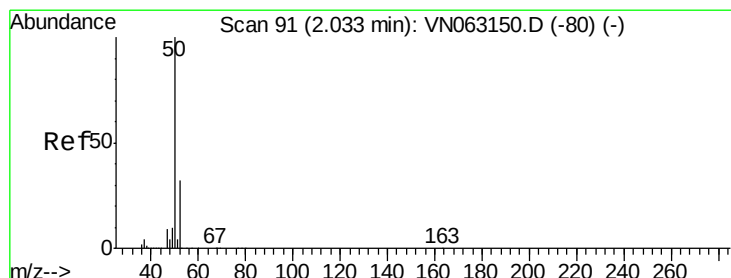
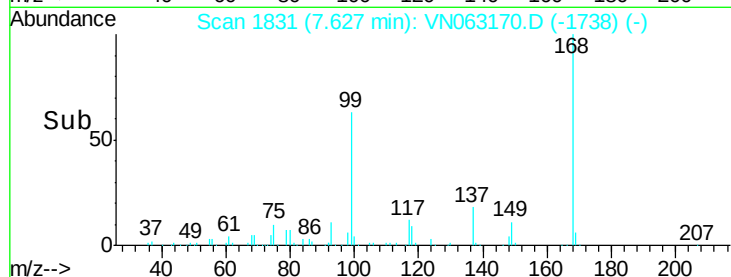
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.416 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063170.D

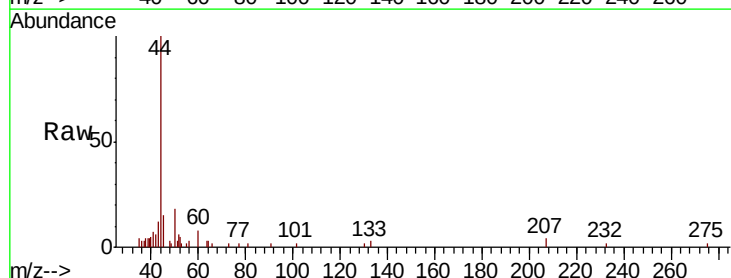
Acq: 1 Sep 2020 21:17

Tgt Ion: 50 Resp: 2140

Ion Ratio Lower Upper

50 100

52 60.4 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

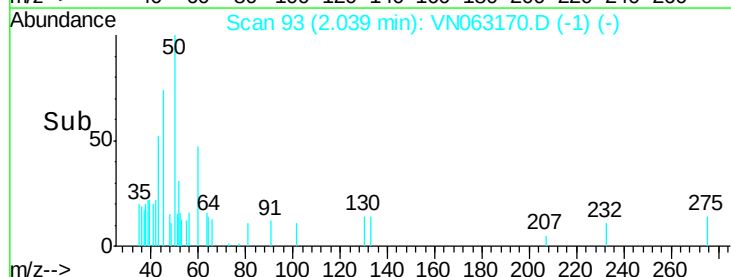
1500

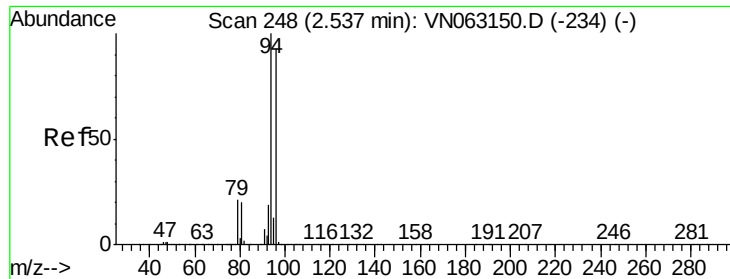
1000

500

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.321 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

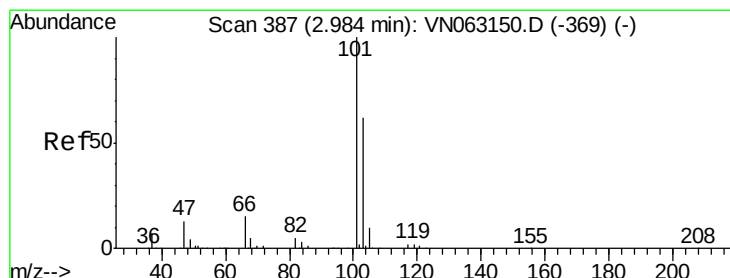
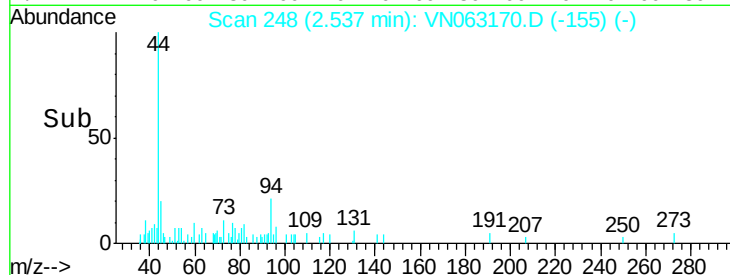
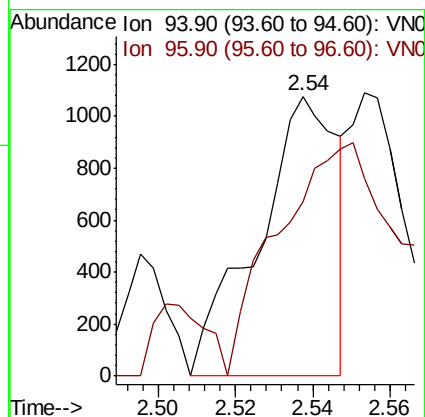
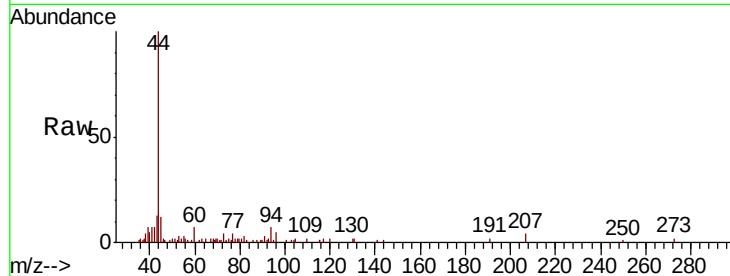
ClientSampleId :

Tot Ion: 94 Resp: 1533

Ion Ratio Lower Upper

94 100

96 42.0 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.04 min Scan# 404

Delta R.T. 0.05 min

Lab File: VN063170.D

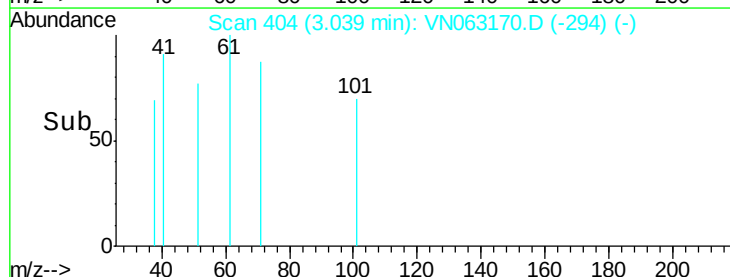
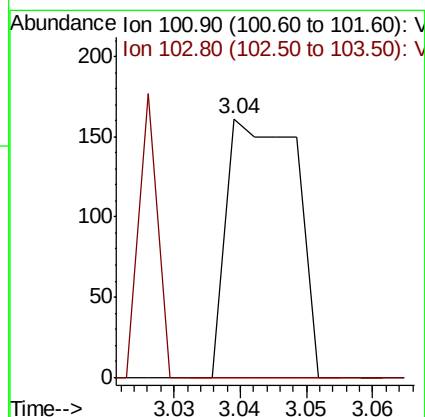
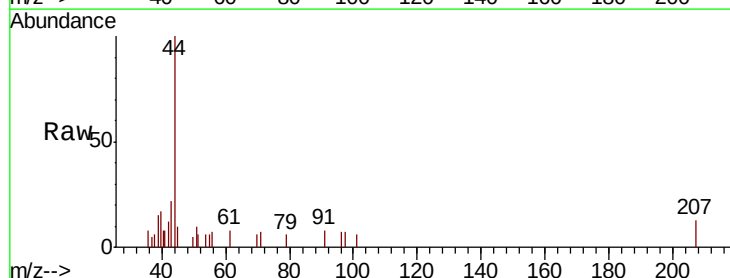
Acq: 1 Sep 2020 21:17

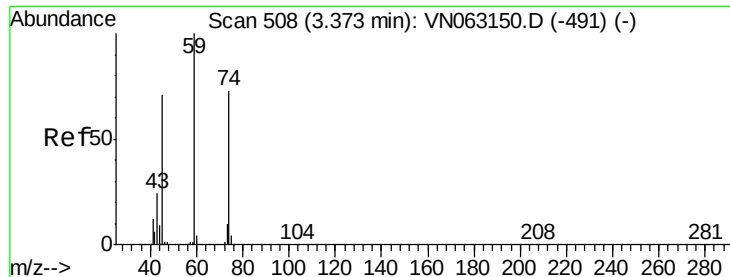
Tgt Ion: 101 Resp: 118

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#





#8

Diethyl Ether

Concen: 0.796 ug/l

RT: 3.37 min Scan# 506

Delta R.T. -0.01 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

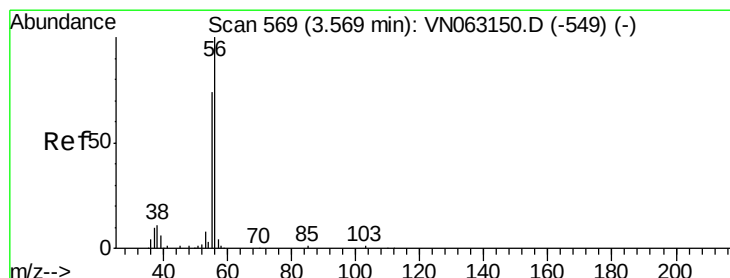
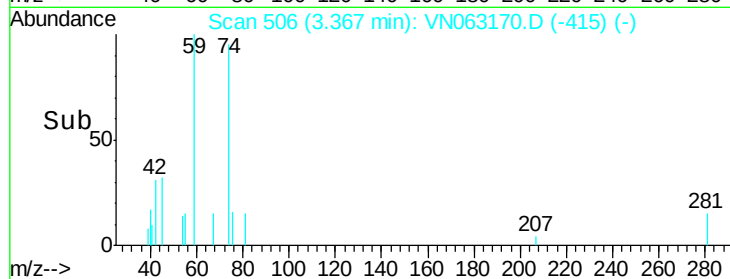
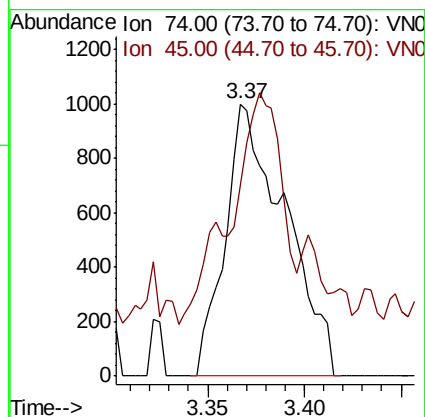
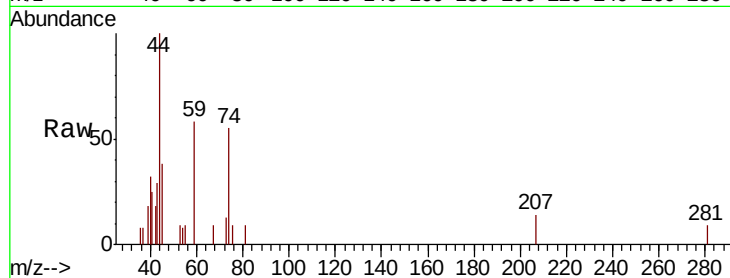
ClientSampled :

Tot Ion: 74 Resp: 2162

Ion Ratio Lower Upper

74 100

45 42.1 49.5 148.5#



#13

Acrolein

Concen: 16.587 ug/l

RT: 3.58 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN063170.D

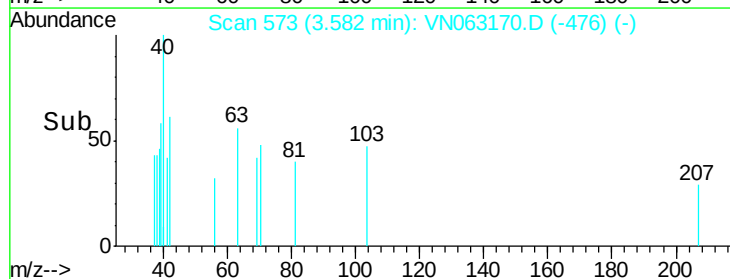
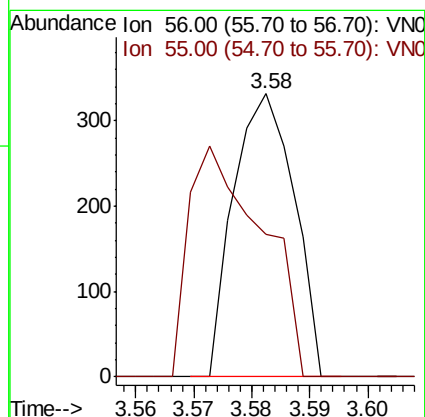
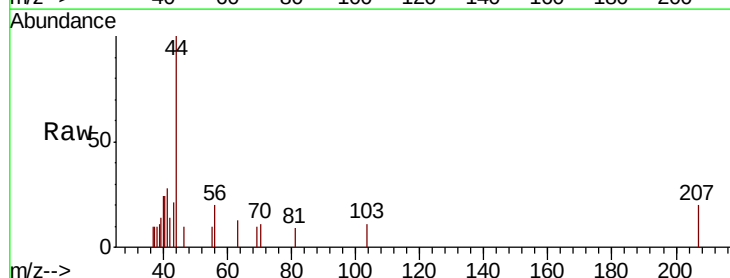
Acq: 1 Sep 2020 21:17

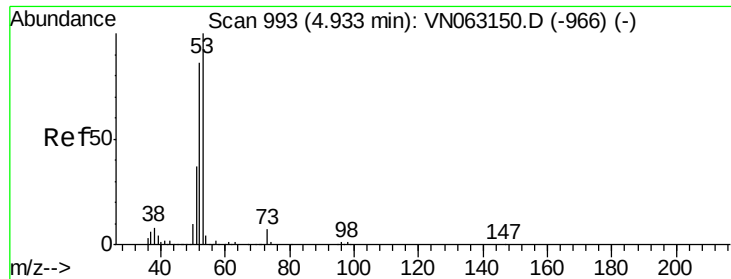
Tgt Ion: 56 Resp: 239

Ion Ratio Lower Upper

56 100

55 99.2 55.4 83.0#





#15

Acrylonitrile

Concen: 2.460 ug/l

RT: 4.95 min Scan# 998

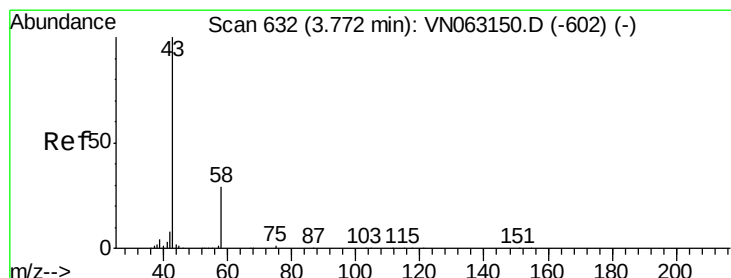
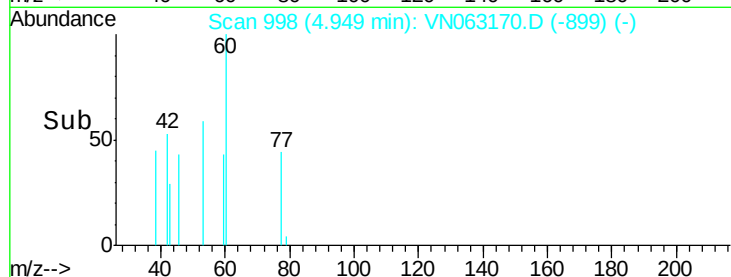
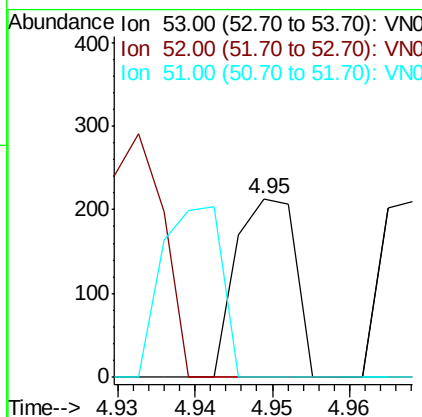
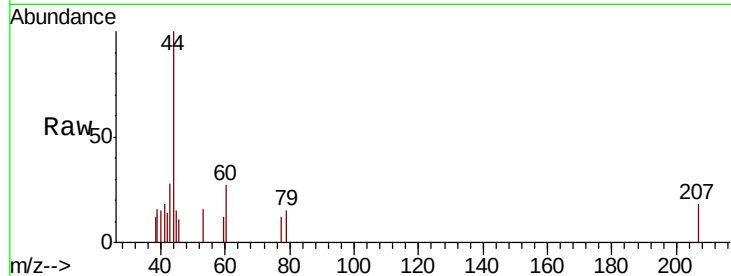
Delta R.T. 0.02 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 53 Resp: 114
Ion Ratio Lower Upper
53 100
52 123.7 67.2 100.8#
51 95.6 30.2 45.4#



#16

Acetone

Concen: 30.840 ug/l

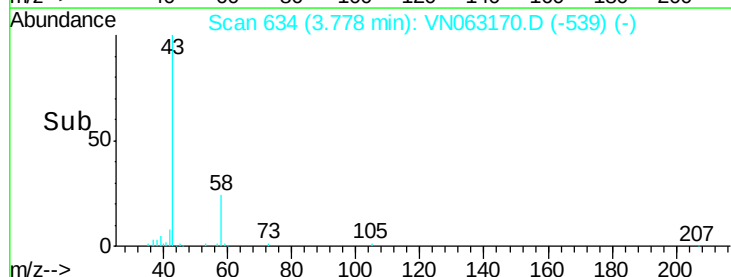
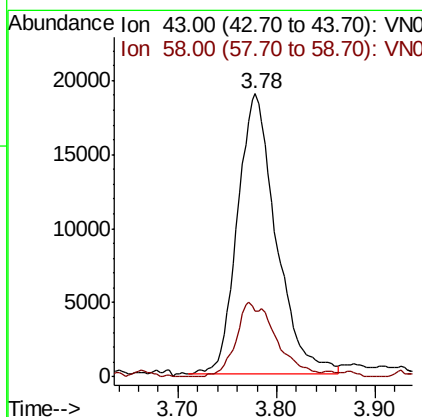
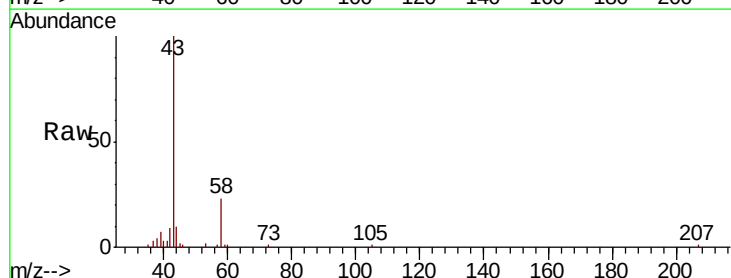
RT: 3.78 min Scan# 634

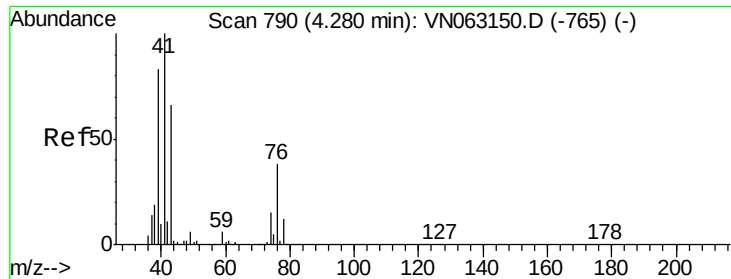
Delta R.T. 0.01 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Tgt Ion: 43 Resp: 51358
Ion Ratio Lower Upper
43 100
58 23.5 23.1 34.7

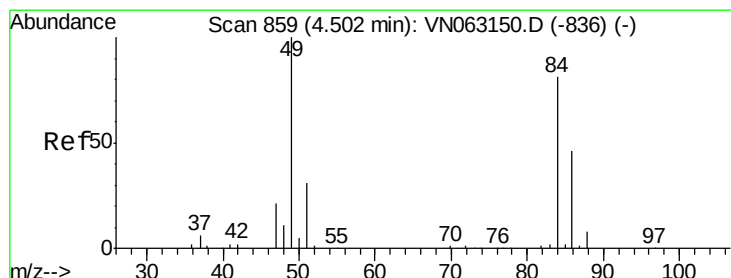
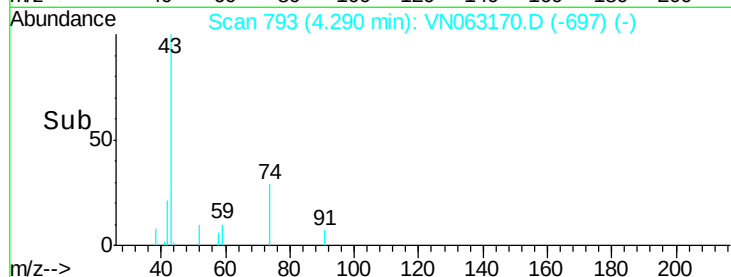
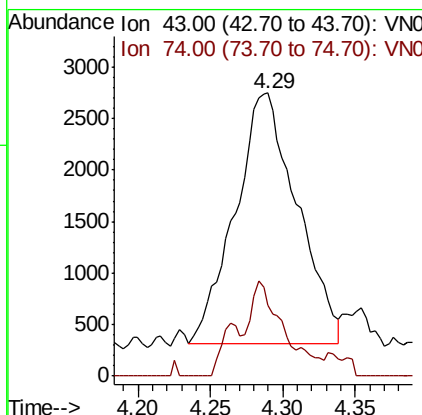
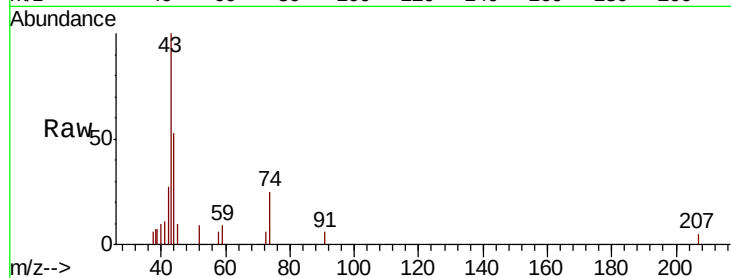




#18
Methyl Acetate
Concen: 1.708 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063170.D
Acq: 1 Sep 2020 21:17

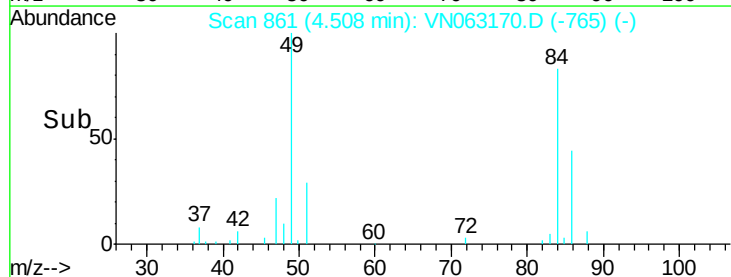
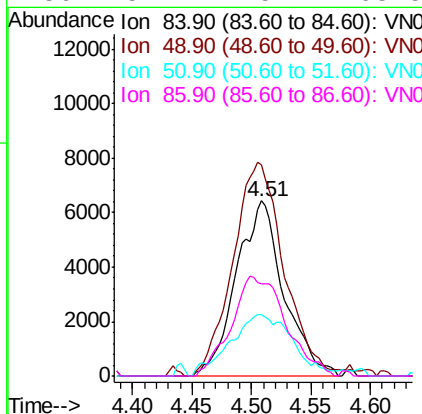
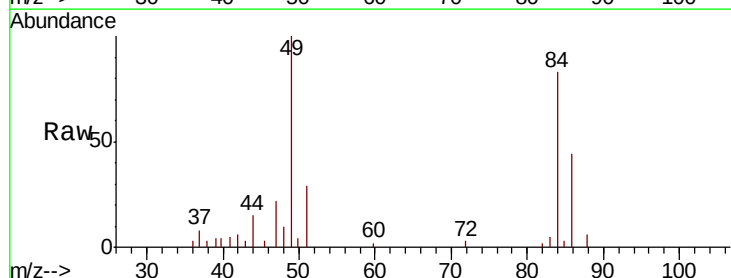
Instrument :
MSVOA_N
ClientSampled :

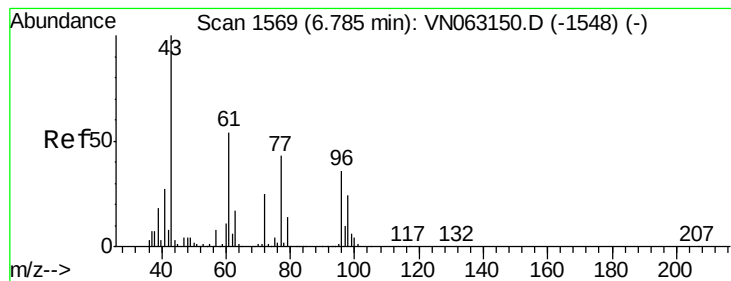
Tot Ion: 43 Resp: 7294
Ion Ratio Lower Upper
43 100
74 21.4 19.0 28.6



#20
Methylene Chloride
Concen: 3.346 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063170.D
Acq: 1 Sep 2020 21:17

Tgt Ion: 84 Resp: 17819
Ion Ratio Lower Upper
84 100
49 120.3 98.4 147.6
51 35.1 30.4 45.6
86 52.4 45.7 68.5





#25

2-Butanone

Concen: 1.504 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

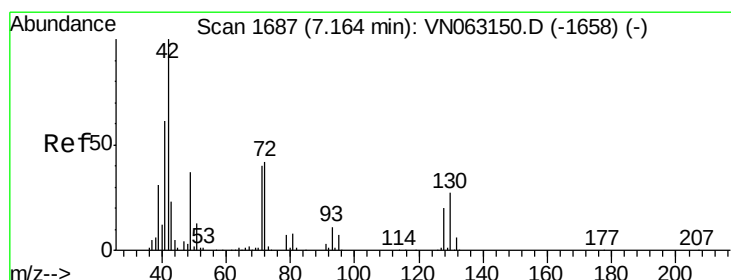
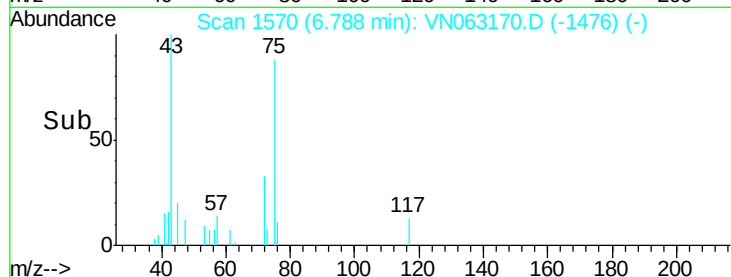
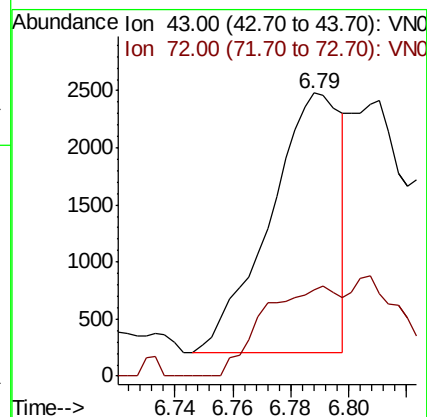
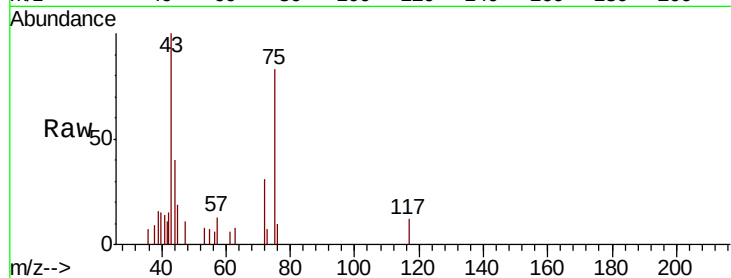
ClientSampled :

Tot Ion: 43 Resp: 3879

Ion Ratio Lower Upper

43 100

72 41.5 20.2 30.4#



#29

Tetrahydrofuran

Concen: 1.033 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

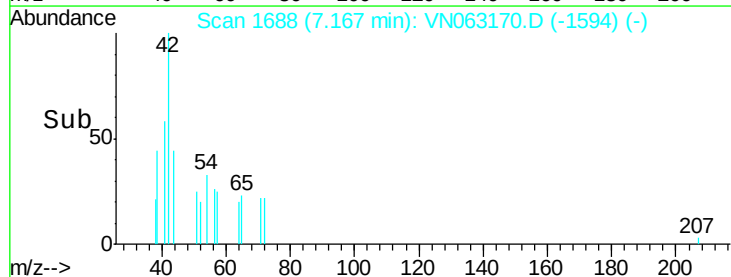
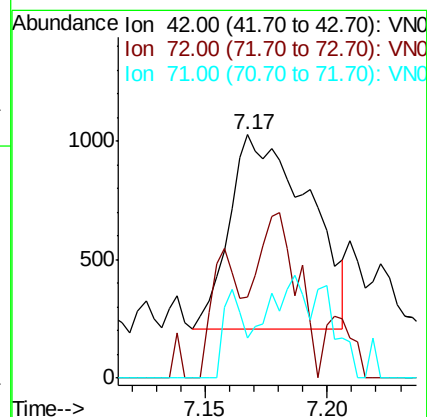
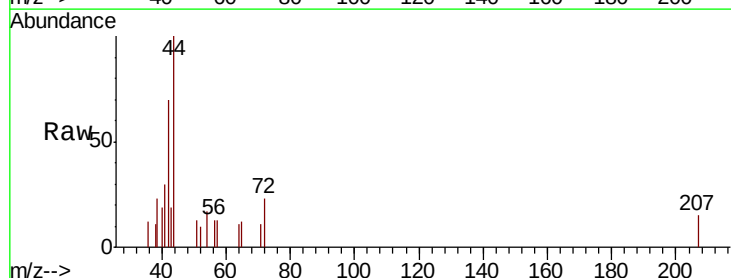
Tgt Ion: 42 Resp: 1842

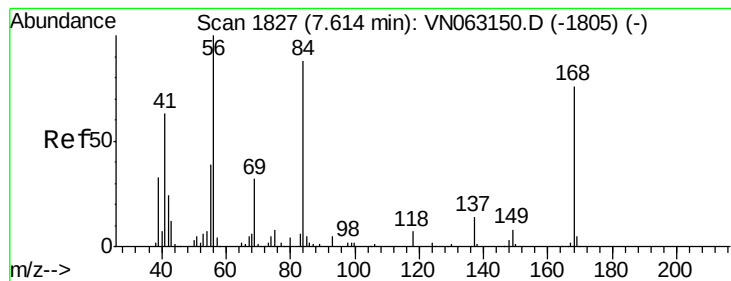
Ion Ratio Lower Upper

42 100

72 21.8 33.9 50.9#

71 11.7 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1831

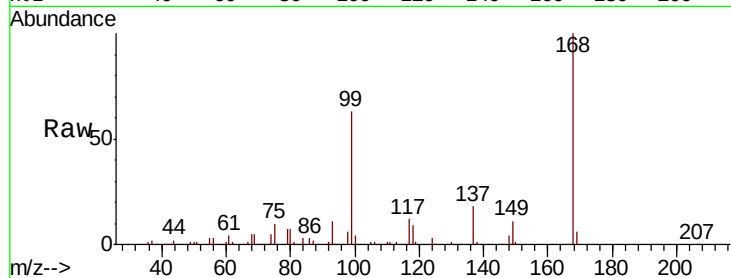
Delta R.T. 0.01 min

Lab File: VN063170.D

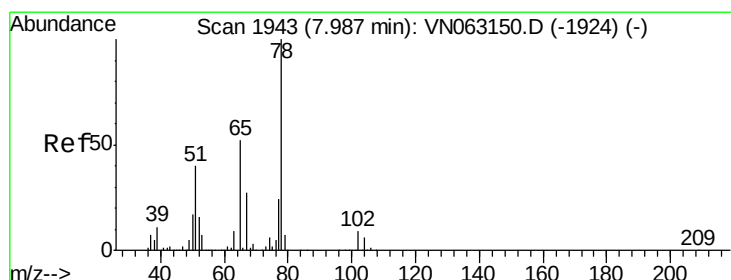
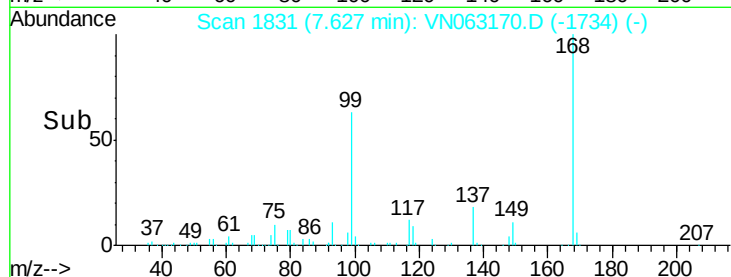
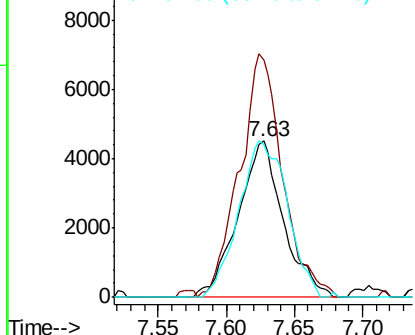
Acq: 1 Sep 2020 21:17

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10373
Ion Ratio Lower Upper
56 100
69 151.5 25.4 38.0#
84 97.9 70.2 105.4



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: 48.088 ug/l

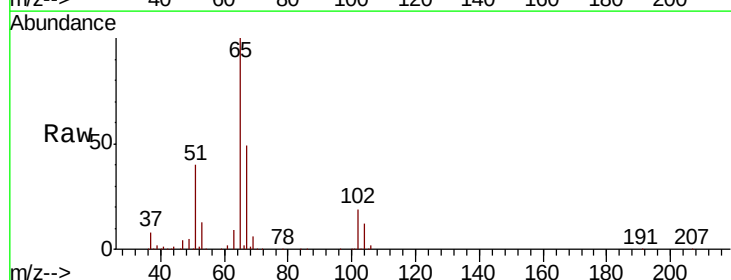
RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

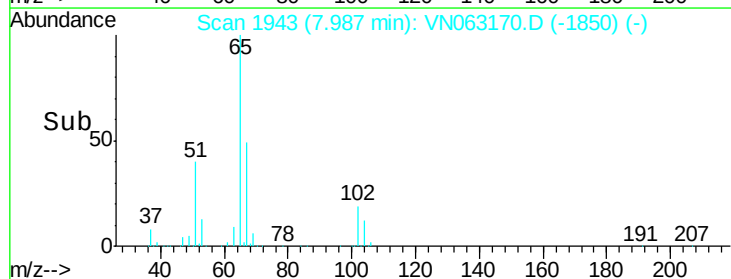
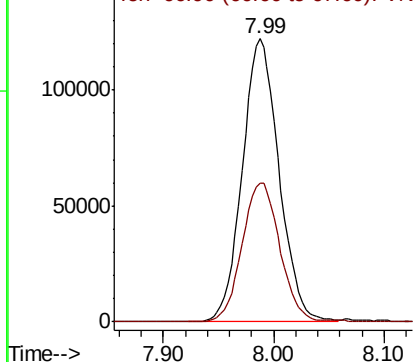
Lab File: VN063170.D

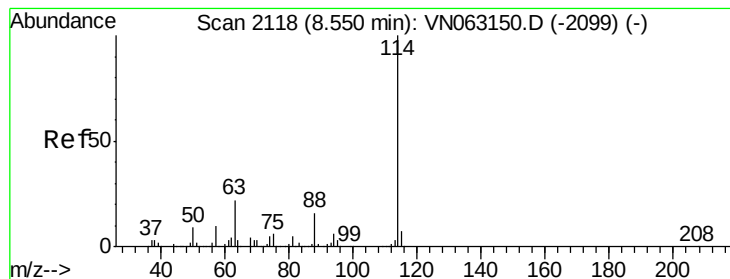
Acq: 1 Sep 2020 21:17

Tgt Ion: 65 Resp: 281707
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.4



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: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

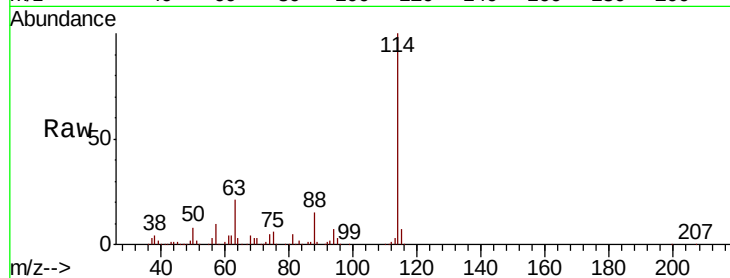
Tot Ion:114 Resp: 693051

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.0

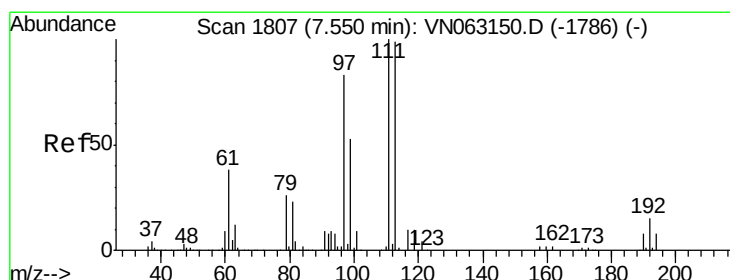
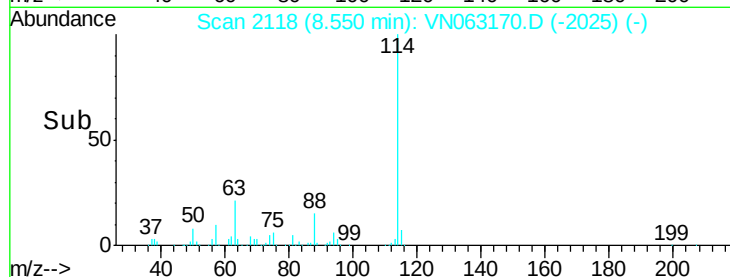
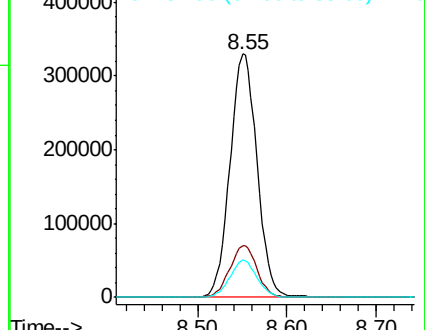
88 15.3 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.952 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

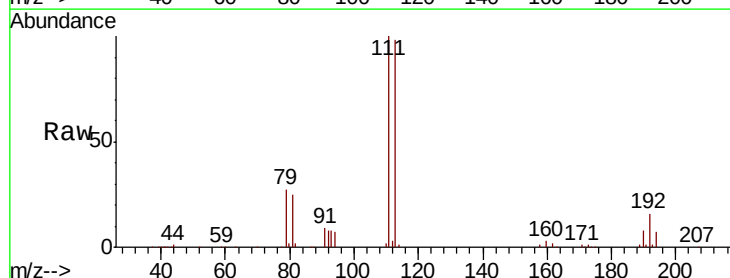
Tgt Ion:113 Resp: 217656

Ion Ratio Lower Upper

113 100

111 102.7 80.7 121.1

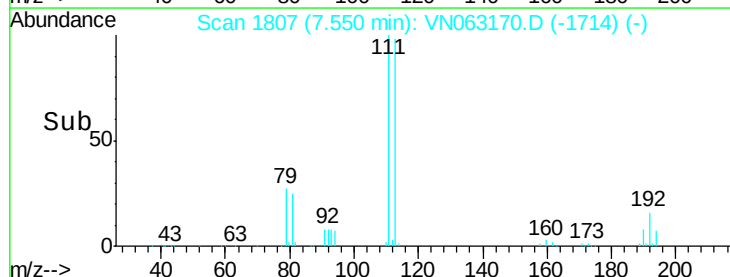
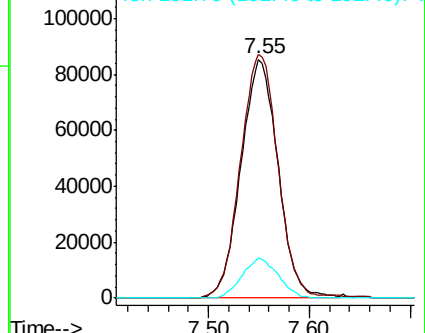
192 16.4 12.6 19.0

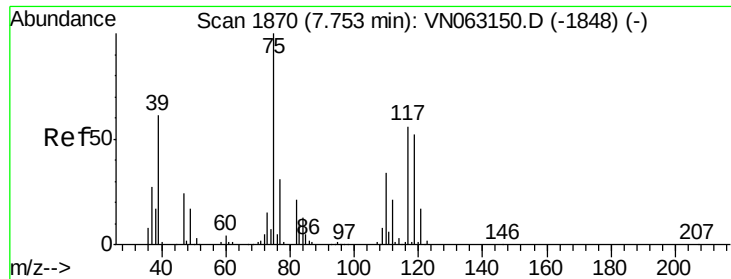


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

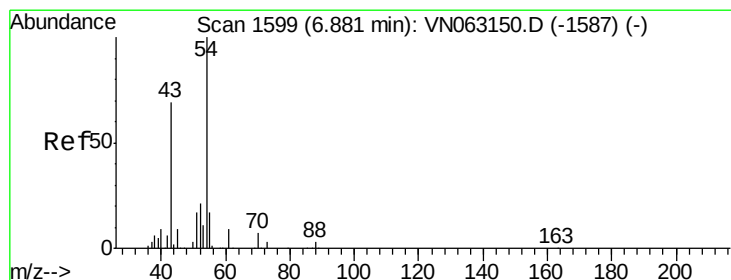
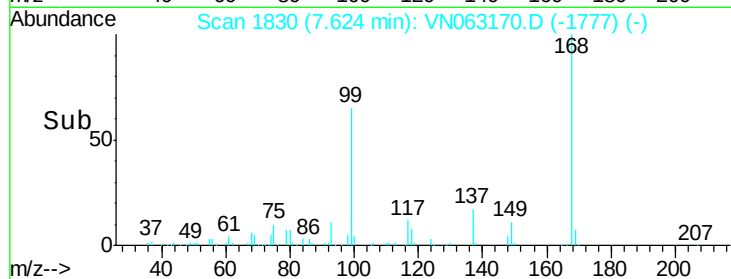
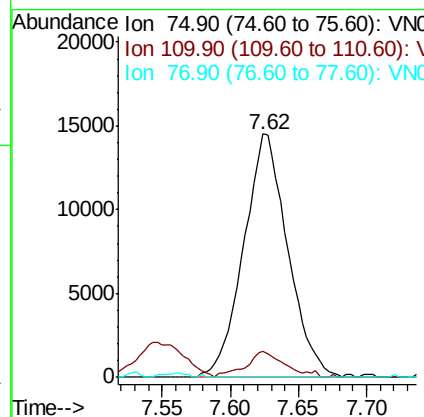
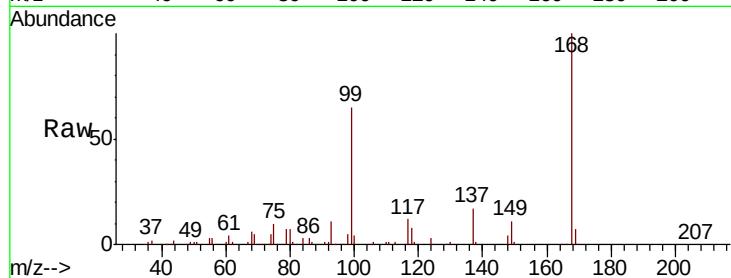




#36
 1,1-Dichloropropene
 Concen: 4.887 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063170.D
 Acq: 1 Sep 2020 21:17

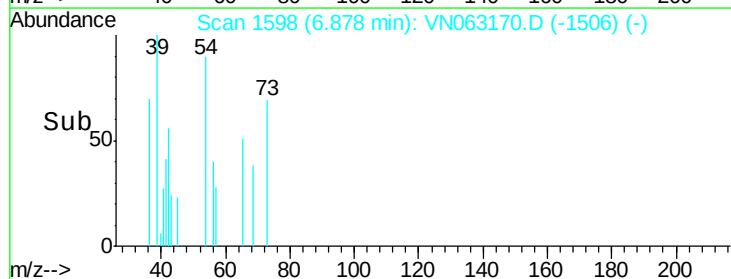
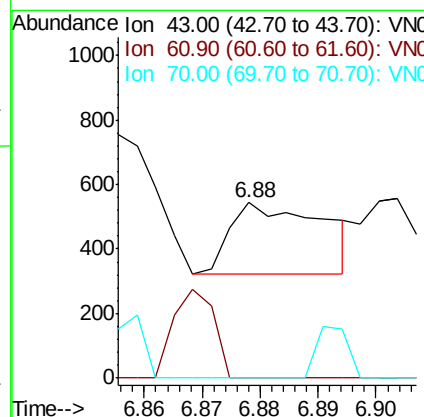
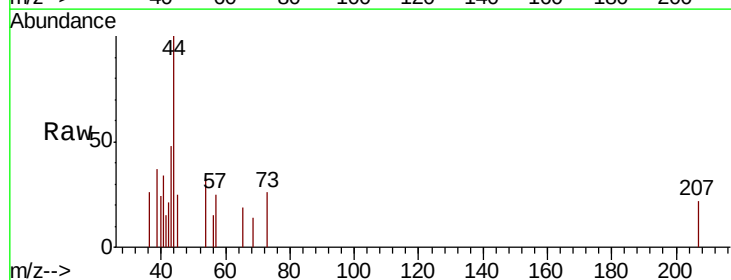
Instrument :
 MSVOA_N
 ClientSampled :

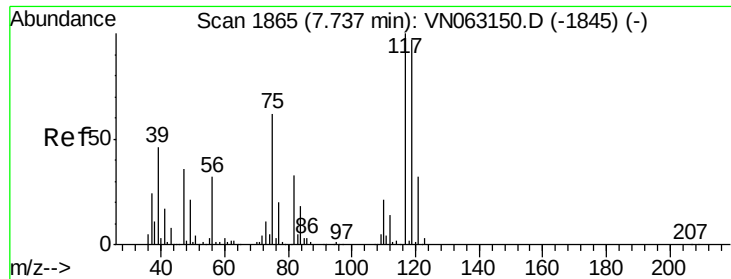
Tot Ion: 75 Resp: 32558
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.6 49.8#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.418 ug/l
 RT: 6.88 min Scan# 1598
 Delta R.T. -0.00 min
 Lab File: VN063170.D
 Acq: 1 Sep 2020 21:17

Tgt Ion: 43 Resp: 242
 Ion Ratio Lower Upper
 43 100
 61 55.4 10.2 15.4#
 70 27.7 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.993 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

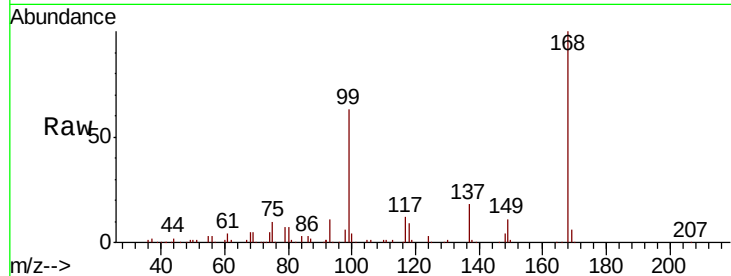
Tot Ion:117 Resp: 40492

Ion Ratio Lower Upper

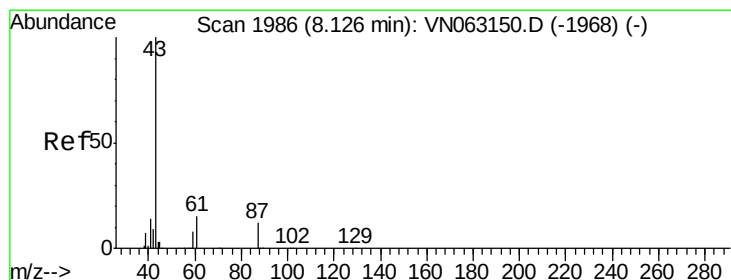
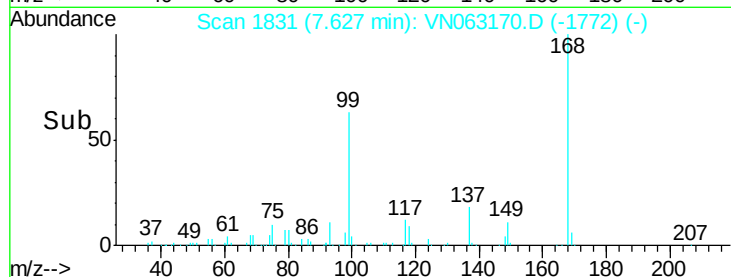
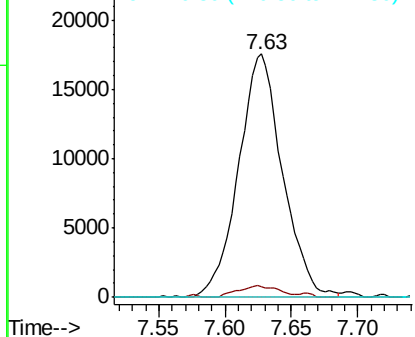
117 100

119 4.5 77.2 115.8#

121 0.0 25.6 38.4#



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: 7.608 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

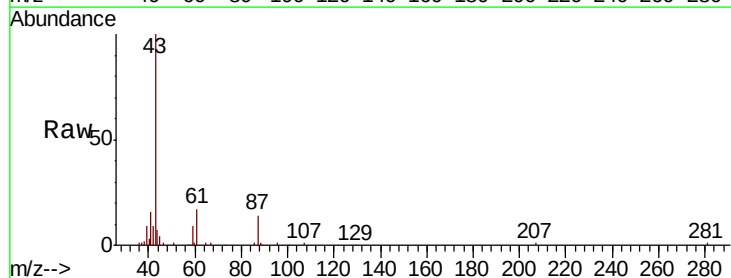
Tgt Ion: 43 Resp: 82663

Ion Ratio Lower Upper

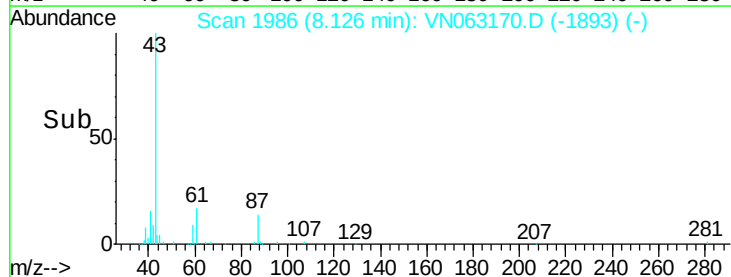
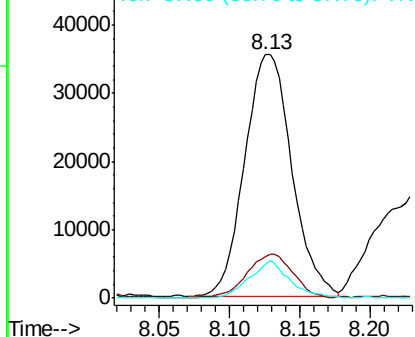
43 100

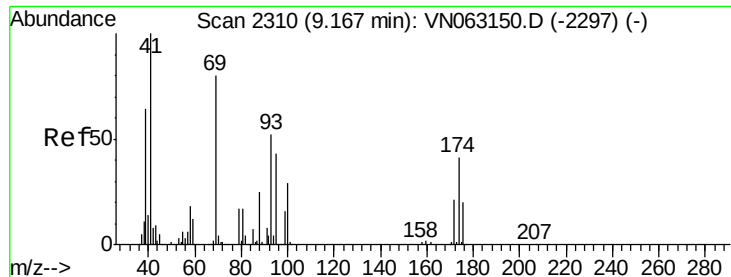
61 18.0 20.2 30.4#

87 13.1 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

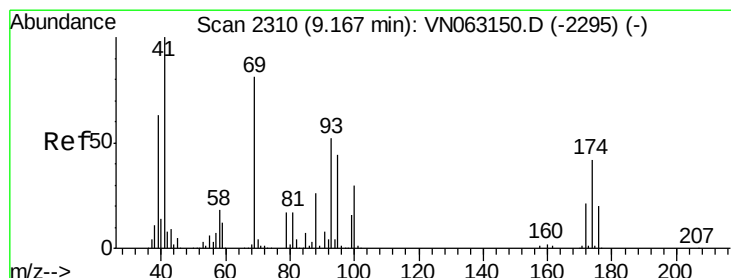
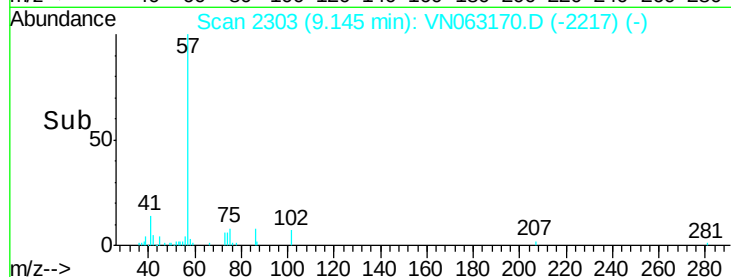
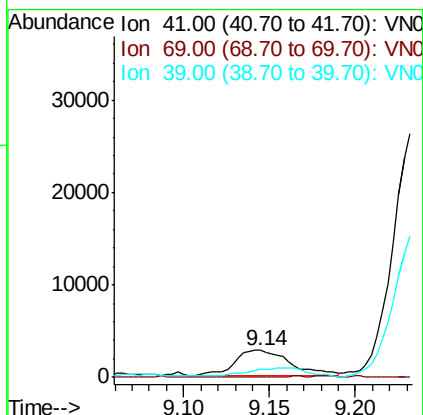
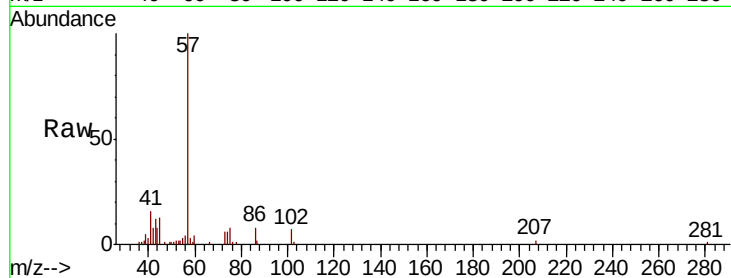




#48
Methvl methacrylate
Concen: 1.235 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063170.D
Acq: 1 Sep 2020 21:17

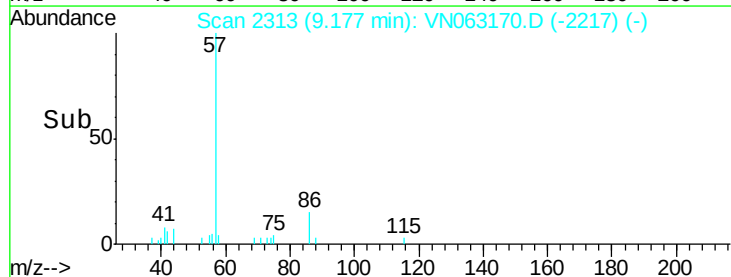
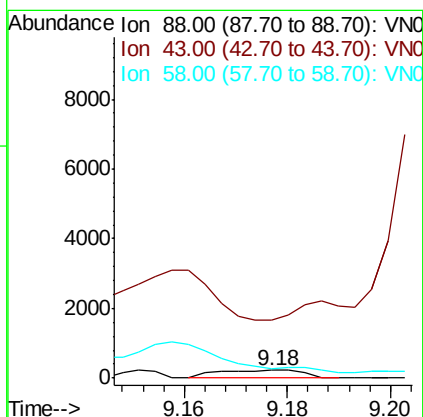
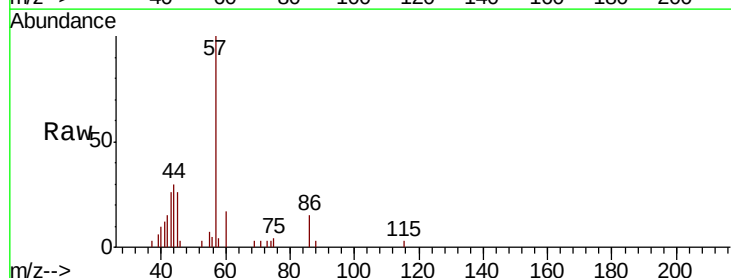
Instrument :
MSVOA_N
ClientSampleId :

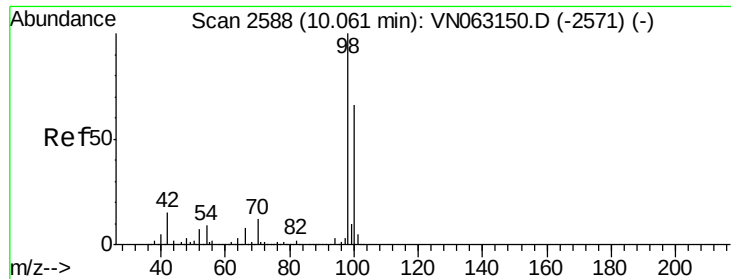
Tot Ion: 41 Resp: 6048
Ion Ratio Lower Upper
41 100
69 1.3 65.9 98.9#
39 44.8 52.0 78.0#



#49
1,4-Dioxane
Concen: 3.313 ug/l
RT: 9.18 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN063170.D
Acq: 1 Sep 2020 21:17

Tgt Ion: 88 Resp: 251
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 0.0 53.2 79.8#





#50

Toluene-d8

Concen: 50.866 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

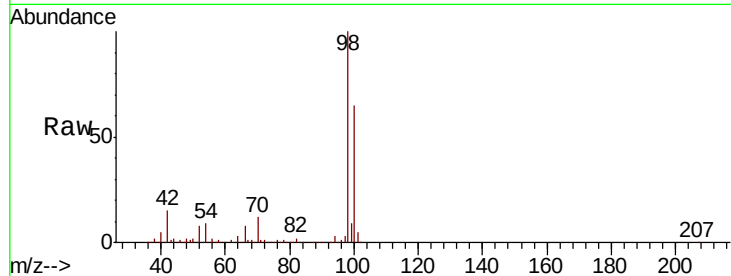
ClientSampled :

Tot Ion: 98 Resp: 870502

Ion Ratio Lower Upper

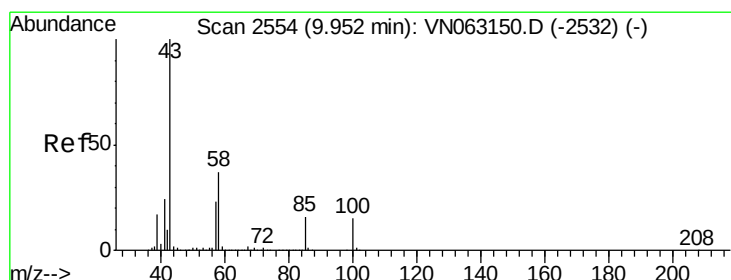
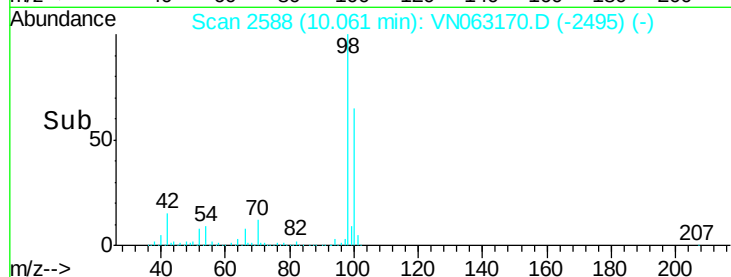
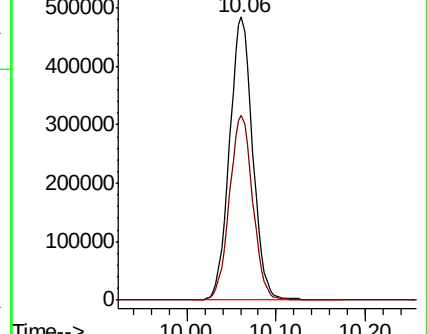
98 100

100 65.8 52.0 78.0



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: 3.501 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063170.D

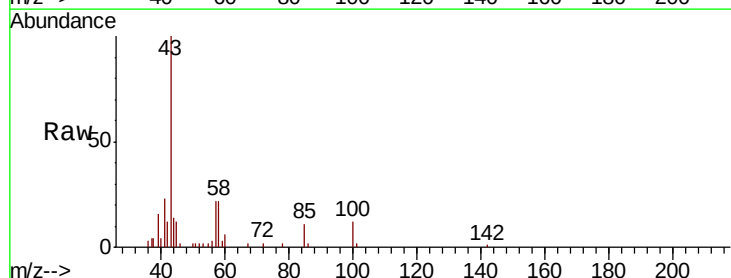
Acq: 1 Sep 2020 21:17

Tgt Ion: 43 Resp: 20674

Ion Ratio Lower Upper

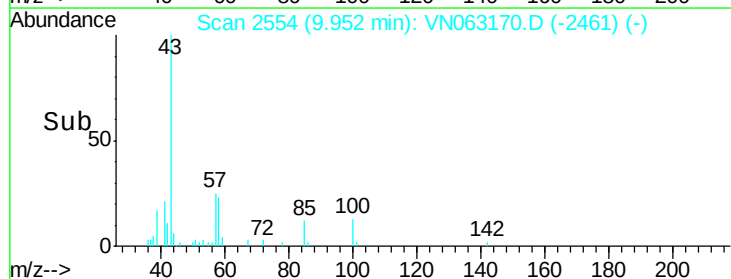
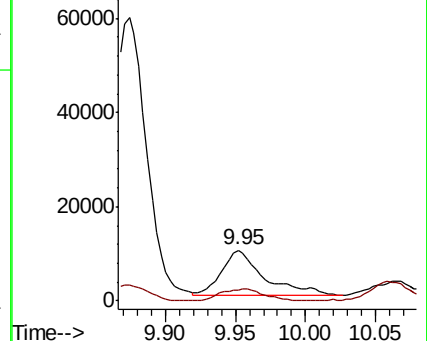
43 100

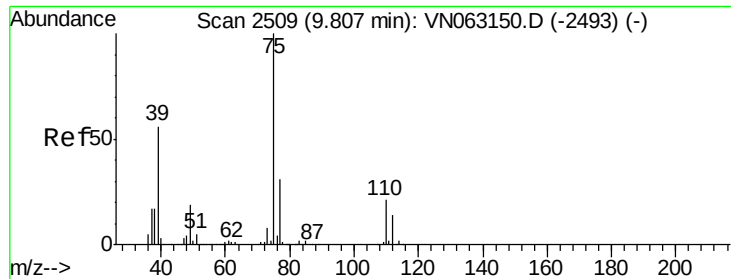
58 26.3 29.2 43.8#



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: 5.150 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

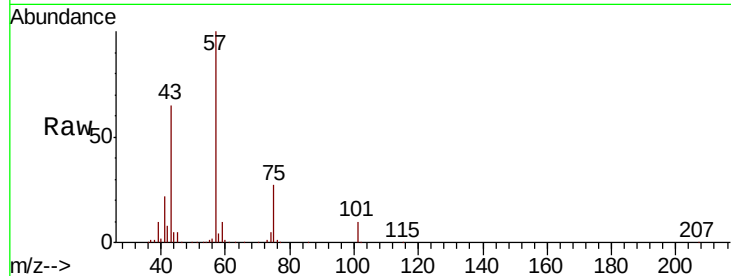
Tot Ion: 75 Resp: 43541

Ion Ratio Lower Upper

75 100

77 1.4 24.8 37.2#

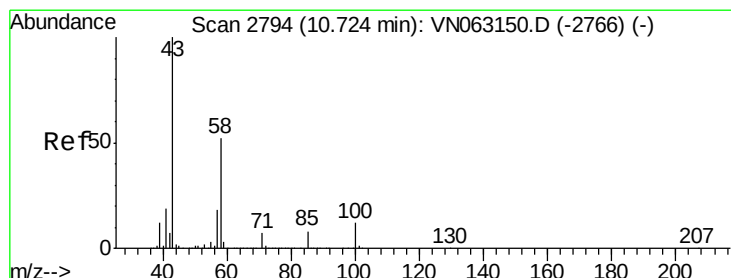
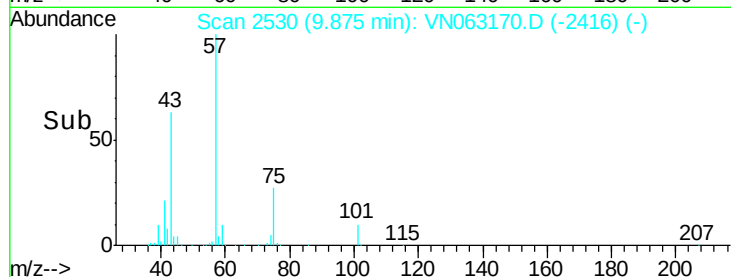
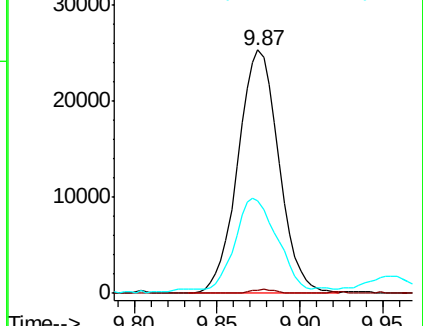
39 36.1 45.0 67.6#



Abundance Ion 74.90 (74.60 to 75.60): VN063170.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN063170.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN063170.D (-2416) (-)



#59

2-Hexanone

Concen: 10.835 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN063170.D

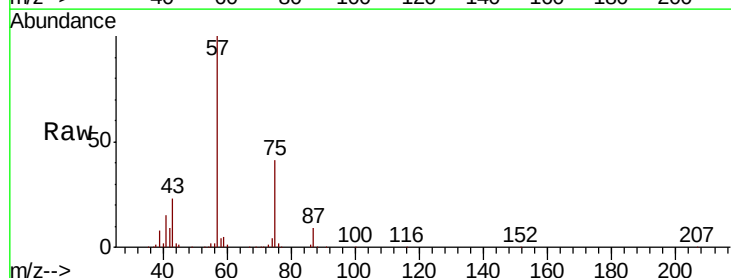
Acq: 1 Sep 2020 21:17

Tgt Ion: 43 Resp: 44962

Ion Ratio Lower Upper

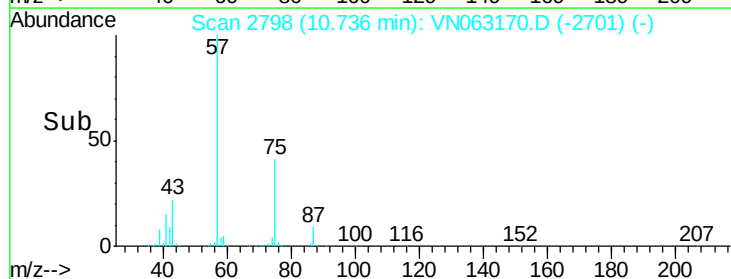
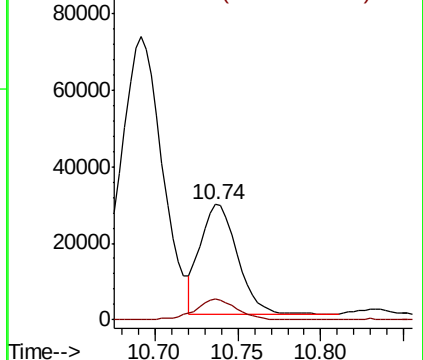
43 100

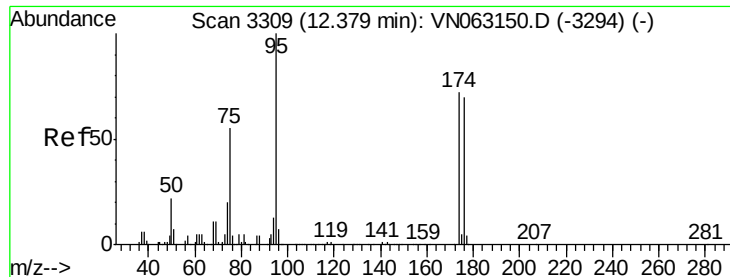
58 20.9 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VN063170.D (-2701) (-)

Ion 58.00 (57.70 to 58.70): VN063170.D (-2701) (-)





#62

4-Bromofluorobenzene

Concen: 52.696 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

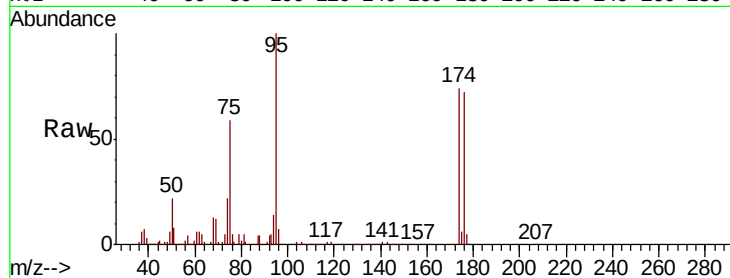
Tot Ion: 95 Resp: 315462

Ion Ratio Lower Upper

95 100

174 73.0 0.0 143.8

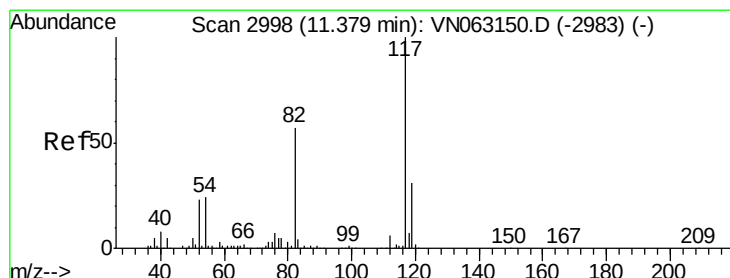
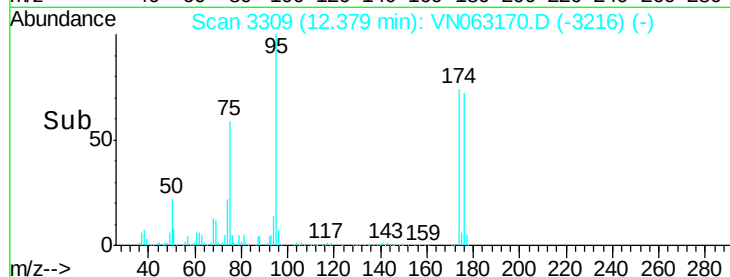
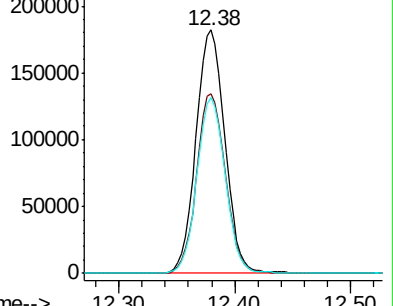
176 70.7 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN063170.D (-3216) (-)

Ion 173.80 (173.50 to 174.50): VN063170.D (-3216) (-)

Ion 175.80 (175.50 to 176.50): VN063170.D (-3216) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

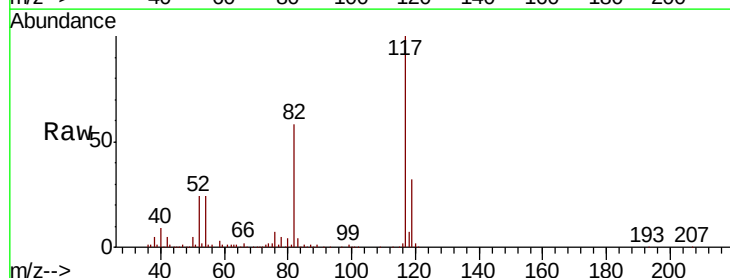
Tgt Ion: 117 Resp: 681941

Ion Ratio Lower Upper

117 100

82 57.6 45.4 68.0

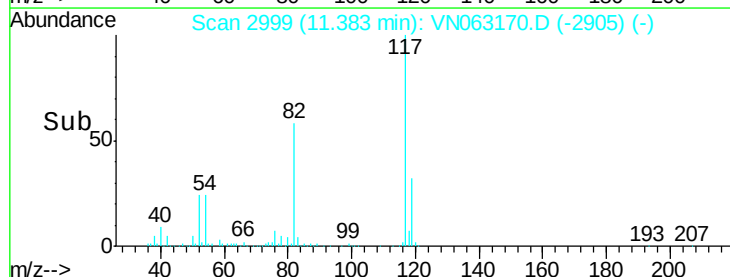
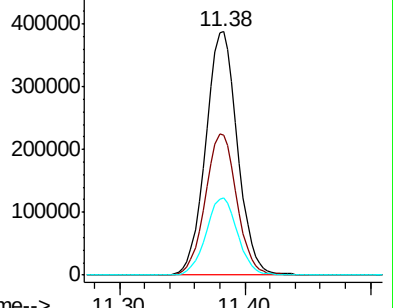
119 31.5 24.6 37.0

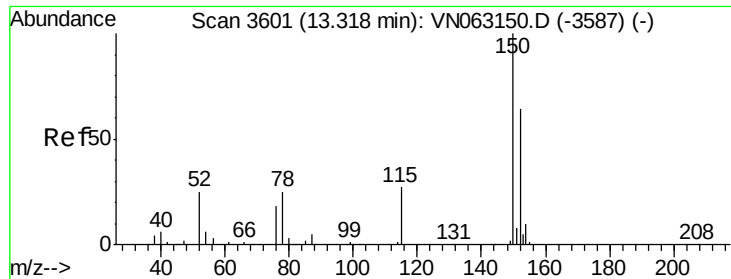


Abundance Ion 116.90 (116.60 to 117.60): VN063170.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063170.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063170.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

ClientSampleId :

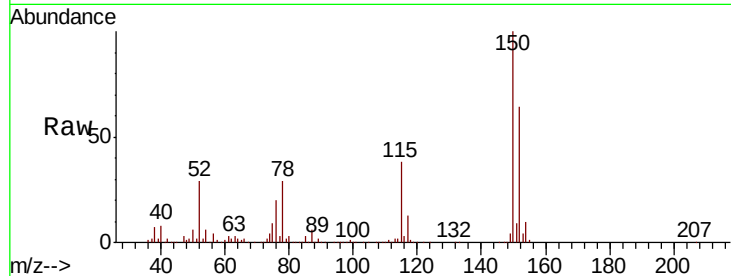
Tot Ion:152 Resp: 284086

Ion Ratio Lower Upper

152 100

115 59.9 32.0 96.2

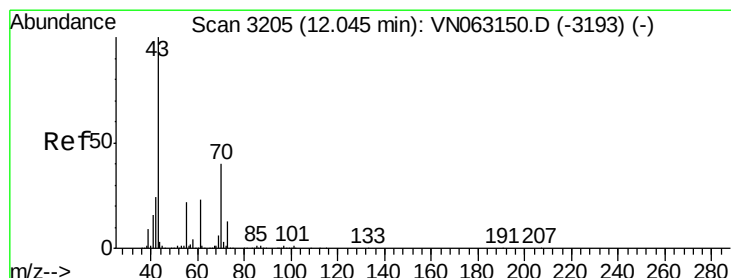
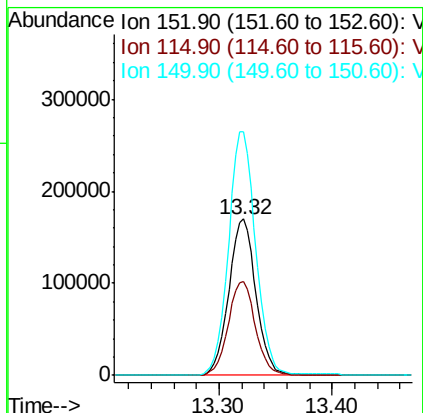
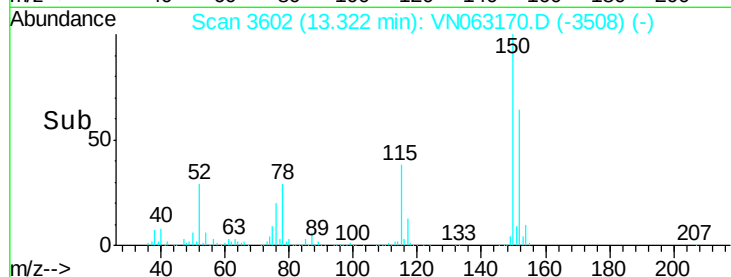
150 155.4 0.0 353.0



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-amil acetate

Concen: 0.422 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Tgt Ion: 43 Resp: 3812

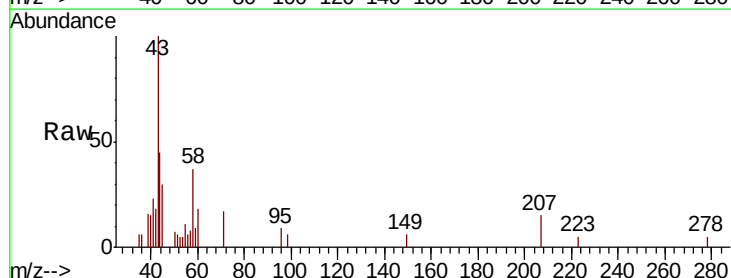
Ion Ratio Lower Upper

43 100

70 0.0 32.1 48.1#

55 4.5 17.4 26.0#

61 0.0 18.6 27.8#

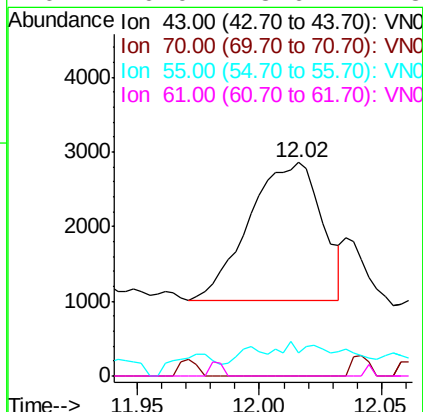
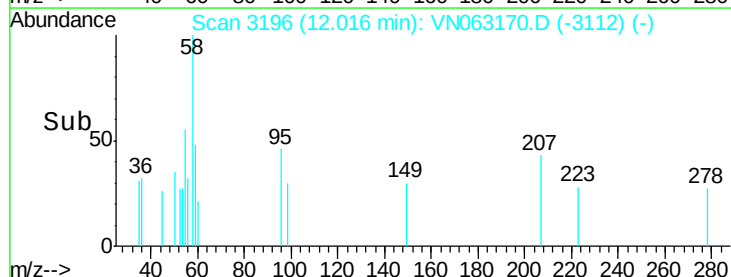


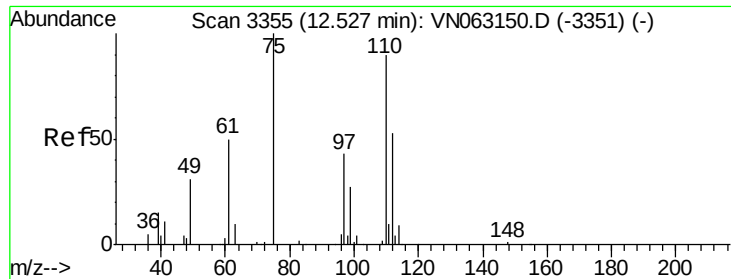
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.319 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Instrument :

MSVOA_N

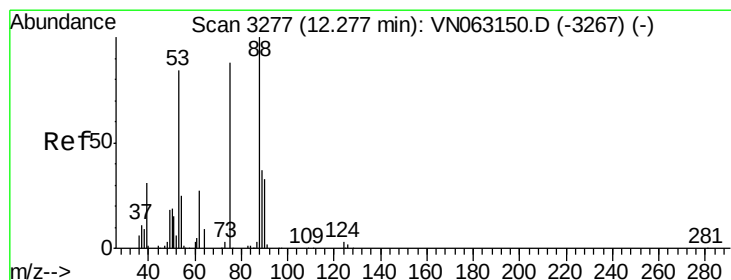
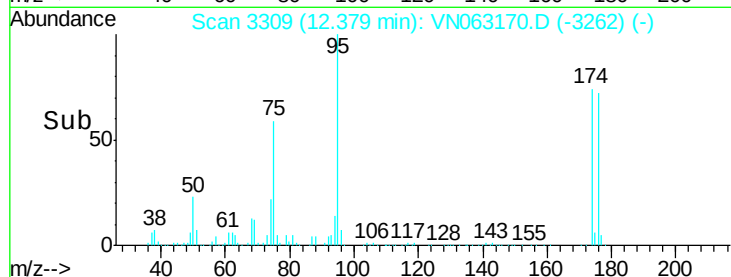
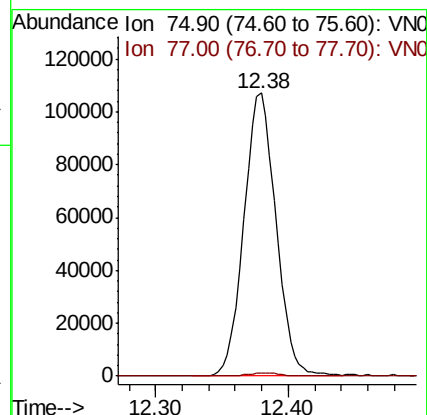
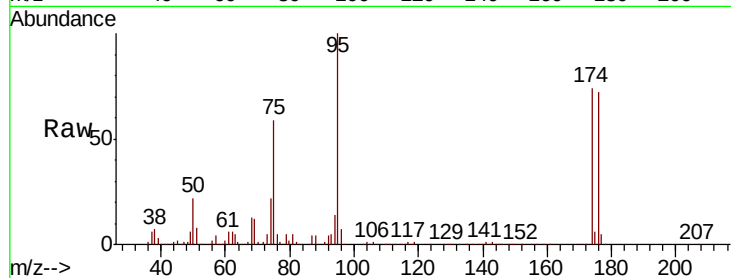
ClientSampleId :

Tot Ion: 75 Resp: 180397

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.115 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063170.D

Acq: 1 Sep 2020 21:17

Tgt Ion: 75 Resp: 180397

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#

