

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091720\
 Data File : VN063416.D
 Acq On : 17 Sep 2020 14:02
 Operator : JC/MD
 Sample : L4050-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 200916080-01-VOA

Quant Time: Sep 18 04:30:01 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	257314	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	474121	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	476108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	213940	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	208571	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
35) Dibromofluoromethane	7.55	113	153942	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
50) Toluene-d8	10.06	98	613491	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.38	95	253264	55.98	ug/l	0.00
Spiked Amount			Recovery	=	111.96%	

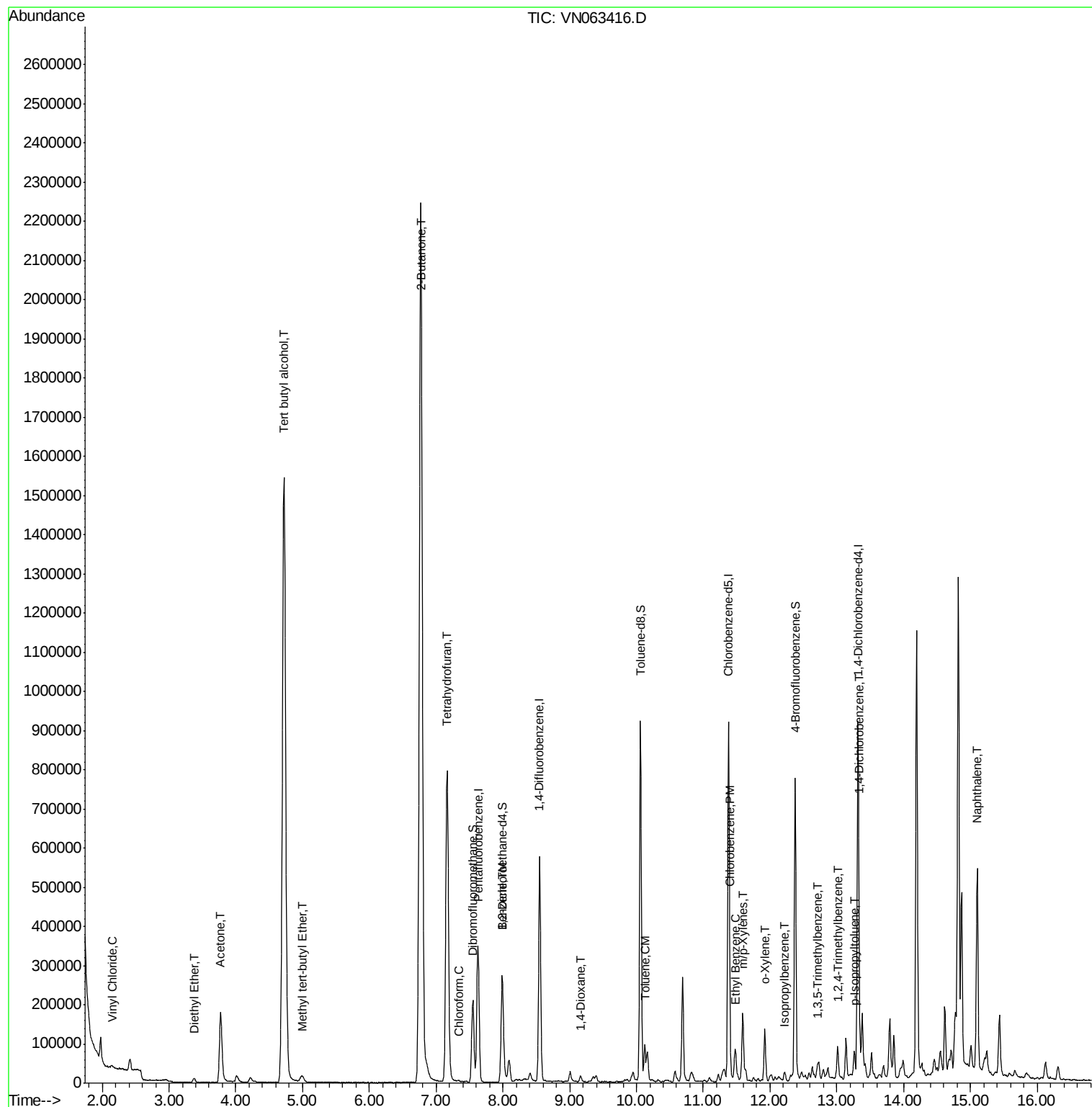
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	1536	0.450	ug/l #	85
8) Diethyl Ether	3.37	74	4893	2.462	ug/l	85
11) Tert butyl alcohol	4.72	59	2869597	4729.005	ug/l	100
16) Acetone	3.77	43	277031	196.795	ug/l	92
19) Methyl tert-butyl Ether	4.99	73	24047	2.222	ug/l	97
25) 2-Butanone	6.78	43	591660	273.280	ug/l	94
29) Tetrahydrofuran	7.16	42	675191	456.621	ug/l	99
30) Chloroform	7.34	83	1933	0.301	ug/l #	79
40) Benzene	8.00	78	50841	3.526	ug/l	100
49) 1,4-Dioxane	9.16	88	5643	90.290	ug/l #	88
52) Toluene	10.13	92	35280	4.070	ug/l	95
65) Chlorobenzene	11.41	112	10121	1.001	ug/l	97
67) Ethyl Benzene	11.49	91	41079	2.158	ug/l	100
68) m/p-Xylenes	11.59	106	53100	7.738	ug/l	100
69) o-Xylene	11.92	106	31378	4.800	ug/l	96
73) Isopropylbenzene	12.22	105	4350	0.254	ug/l	88
80) 1,3,5-Trimethylbenzene	12.71	105	10007	0.700	ug/l	100
84) 1,2,4-Trimethylbenzene	13.02	105	37377	2.588	ug/l	99
86) p-Isopropyltoluene	13.26	119	34348	2.466	ug/l	98
88) 1,4-Dichlorobenzene	13.34	146	26419	3.635	ug/l	87
95) Naphthalene	15.10	128	426198	31.182	ug/l	99

(#) = 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: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

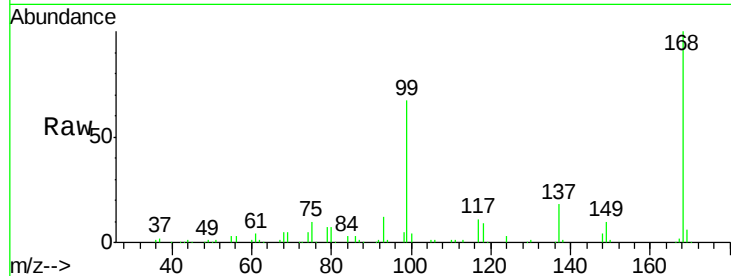
200916080-01-VOA

Tot Ion:168 Resp: 257314

Ion Ratio Lower Upper

168 100

99 67.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

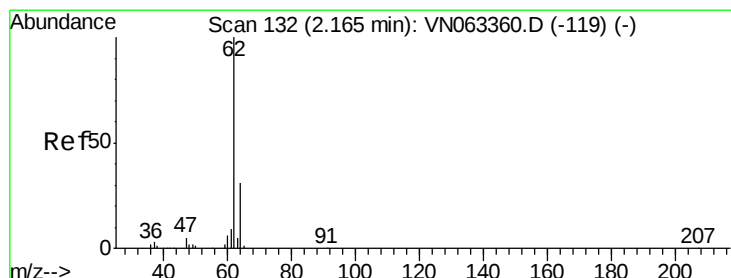
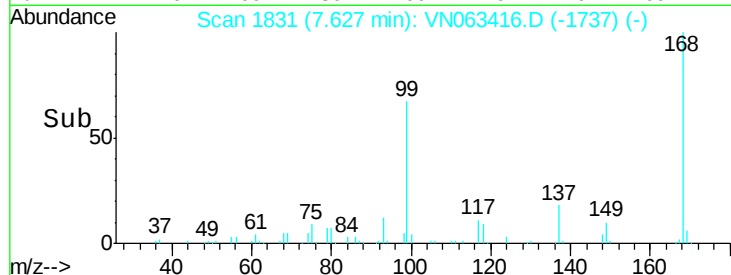
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#4

Vinyl Chloride

Concen: 0.450 ug/l

RT: 2.16 min Scan# 131

Delta R.T. -0.00 min

Lab File: VN063416.D

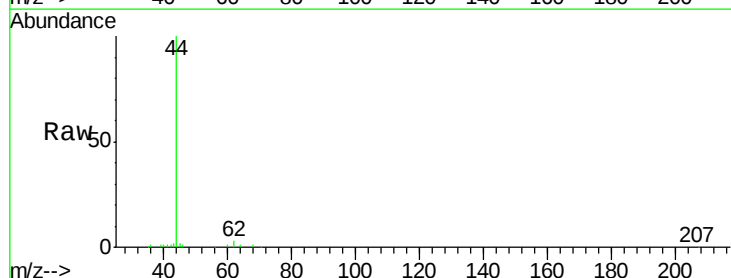
Acq: 17 Sep 2020 14:02

Tgt Ion: 62 Resp: 1536

Ion Ratio Lower Upper

62 100

64 22.9 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.16

1200

1000

800

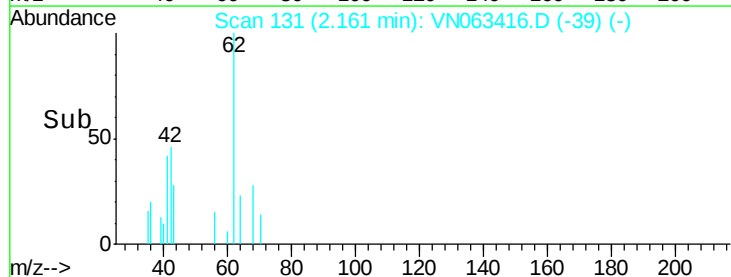
600

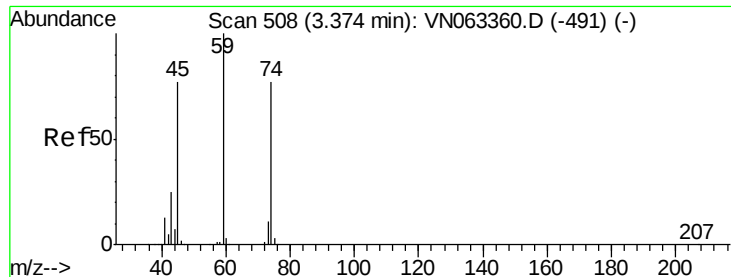
400

200

0

Time--> 2.12 2.14 2.16 2.18 2.20





#8

Diethyl Ether

Concen: 2.462 ug/l

RT: 3.37 min Scan# 508

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

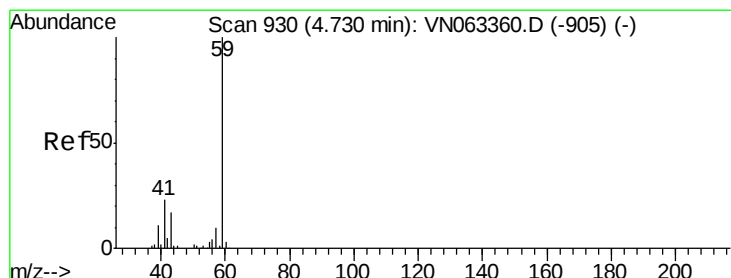
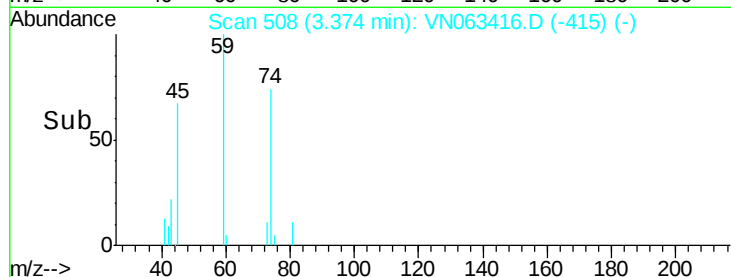
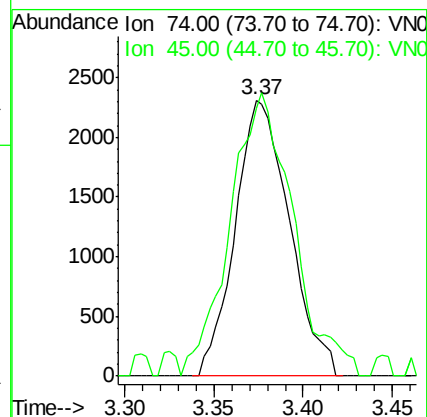
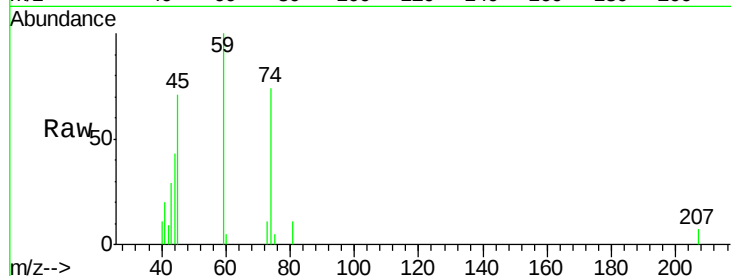
200916080-01-VOA

Tot Ion: 74 Resp: 4893

Ion Ratio Lower Upper

74 100

45 119.4 52.1 156.4



#11

Tert butyl alcohol

Concen: 4729.005 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063416.D

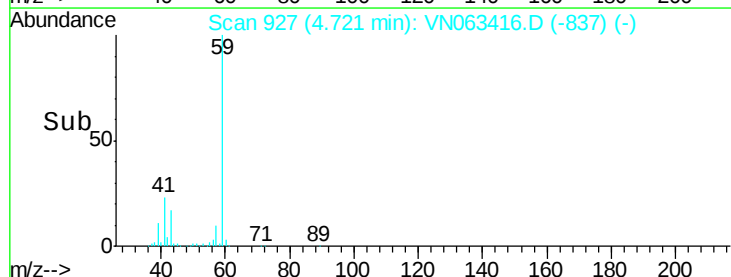
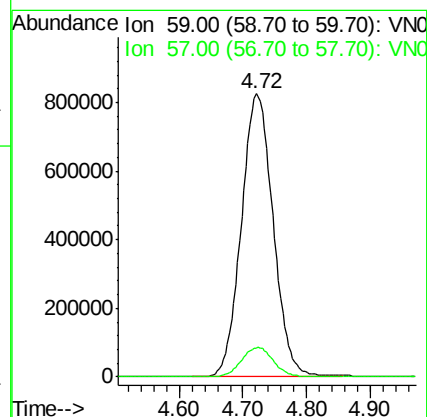
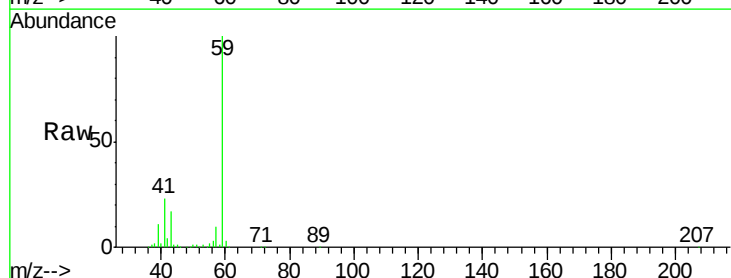
Acq: 17 Sep 2020 14:02

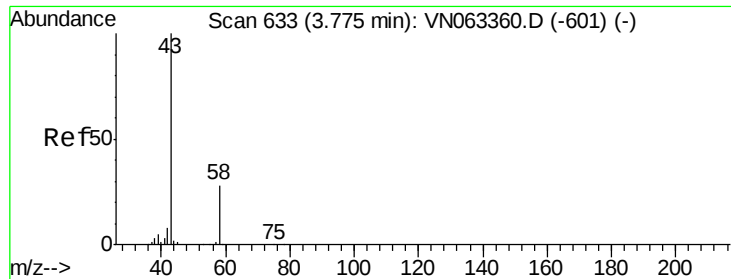
Tgt Ion: 59 Resp: 2869597

Ion Ratio Lower Upper

59 100

57 10.5 8.4 12.6





#16

Acetone

Concen: 196.795 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

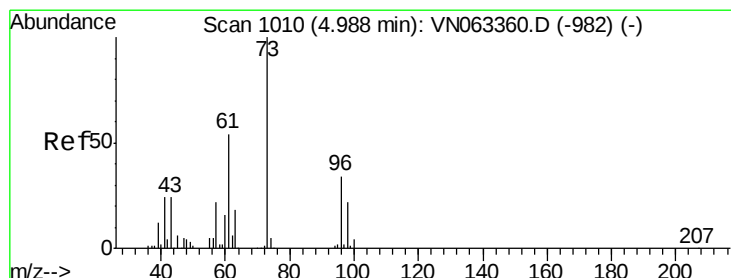
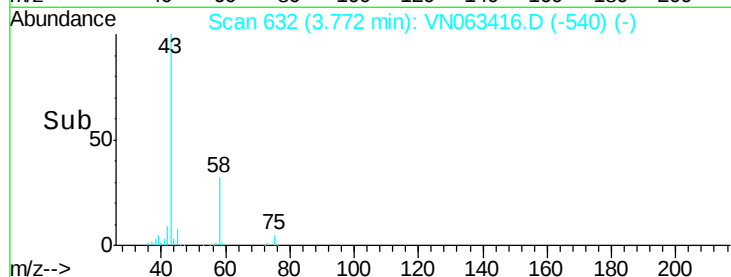
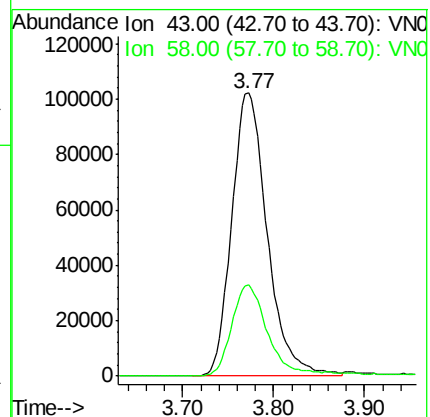
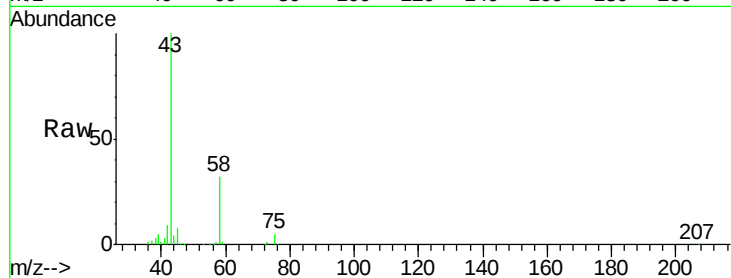
200916080-01-VOA

Tot Ion: 43 Resp: 277031

Ion Ratio Lower Upper

43 100

58 32.2 22.3 33.5



#19

Methyl tert-butyl Ether

Concen: 2.222 ug/l

RT: 4.99 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VN063416.D

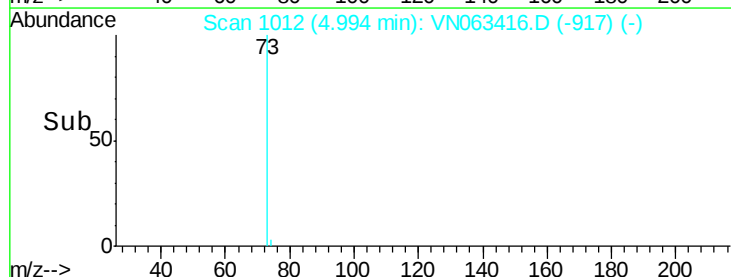
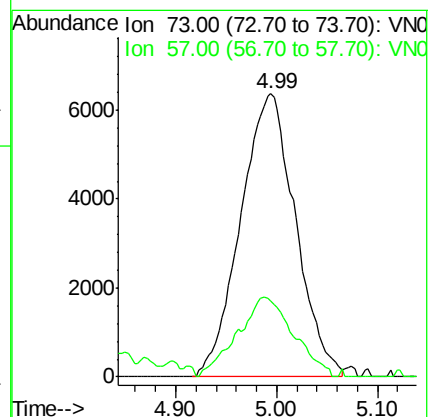
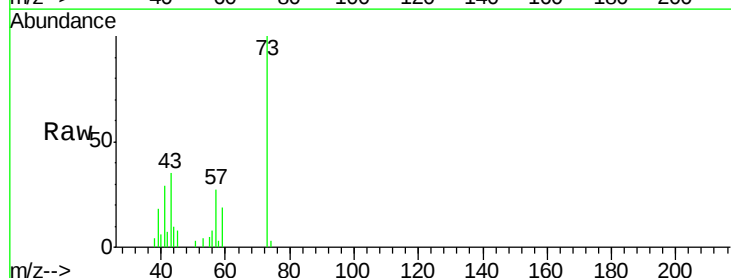
Acq: 17 Sep 2020 14:02

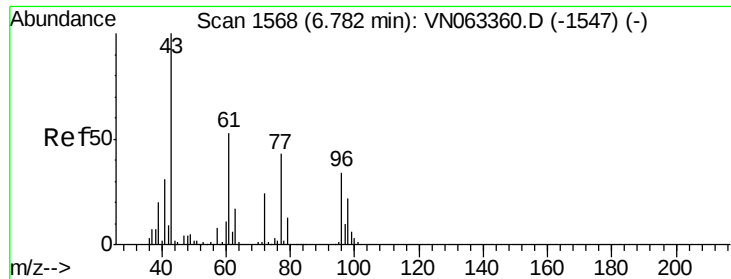
Tgt Ion: 73 Resp: 24047

Ion Ratio Lower Upper

73 100

57 24.1 17.9 26.9

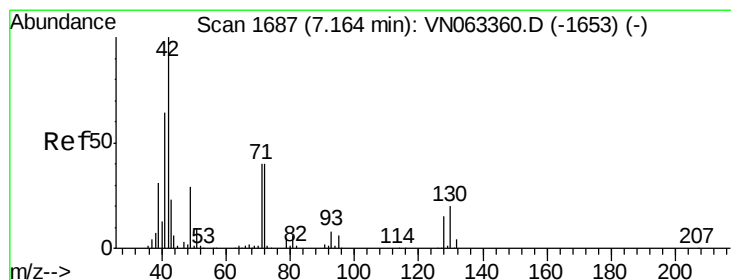
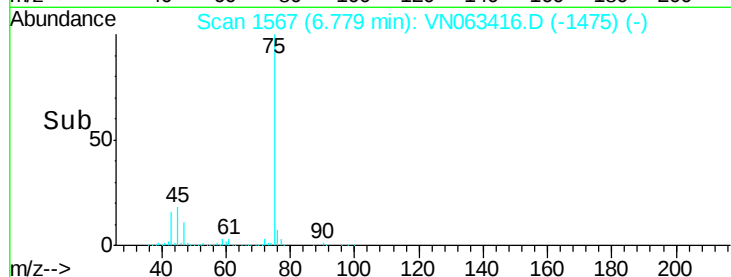
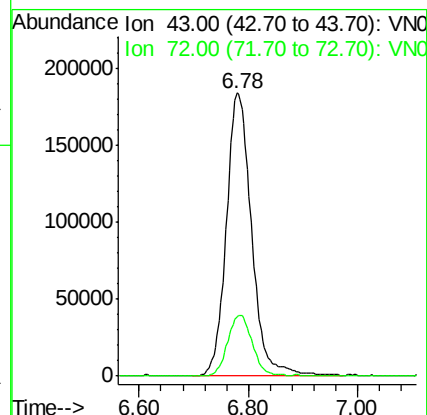
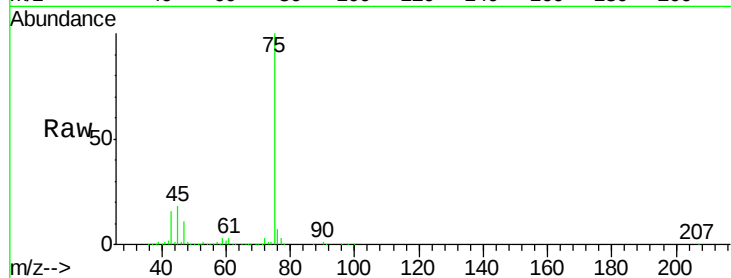




#25
2-Butanone
Concen: 273.280 ug/l
RT: 6.78 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

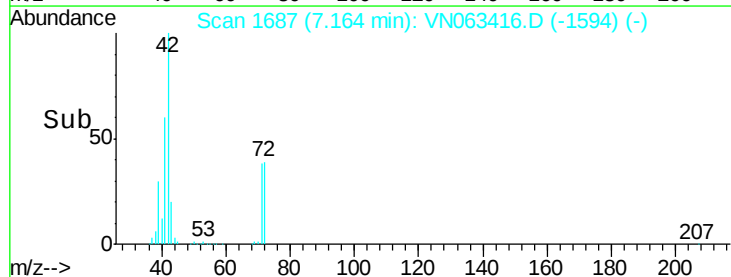
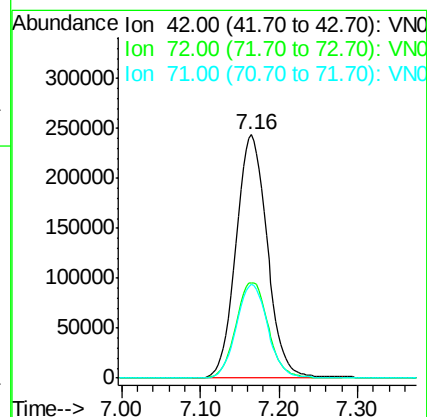
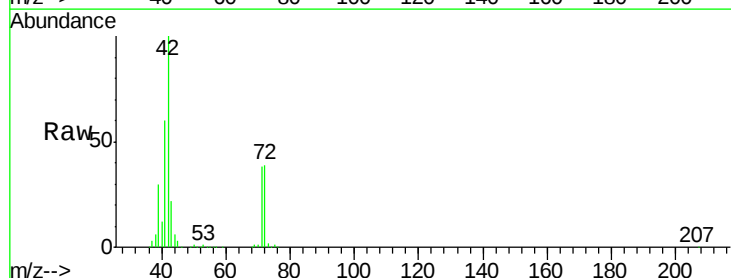
Instrument :
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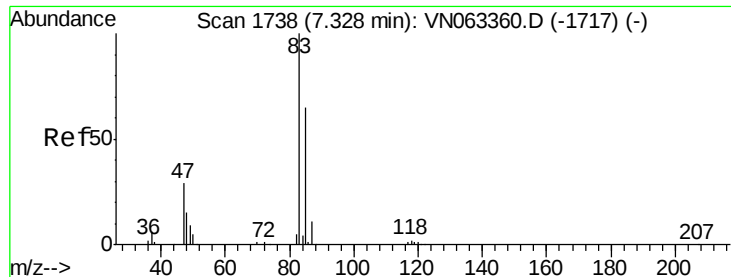
Tot Ion: 43 Resp: 591660
Ion Ratio Lower Upper
43 100
72 21.1 19.2 28.8



#29
Tetrahydrofuran
Concen: 456.621 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

Tgt Ion: 42 Resp: 675191
Ion Ratio Lower Upper
42 100
72 40.8 32.1 48.1
71 39.0 31.2 46.8

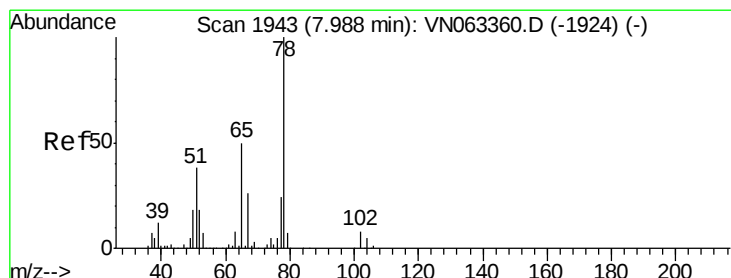
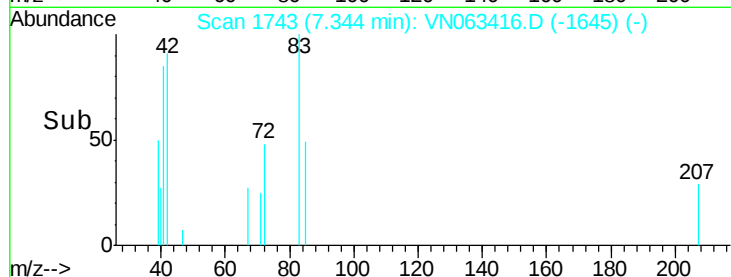
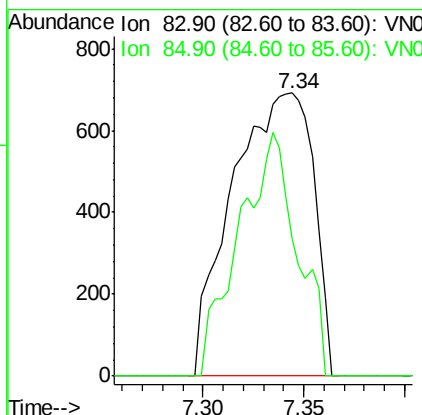
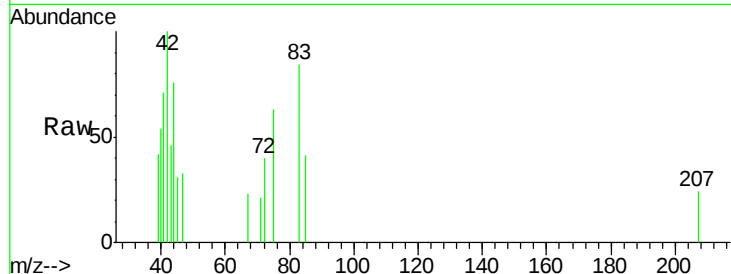




#30
Chloroform
Concen: 0.301 ug/l
RT: 7.34 min Scan# 1743
Delta R.T. 0.02 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

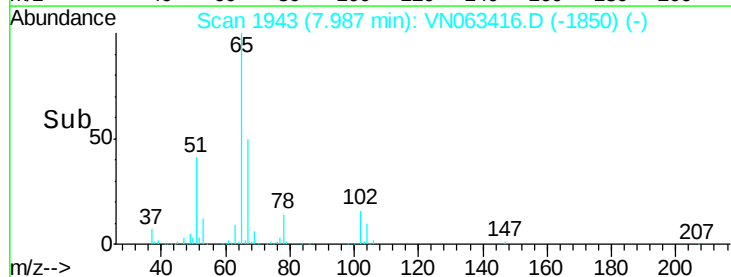
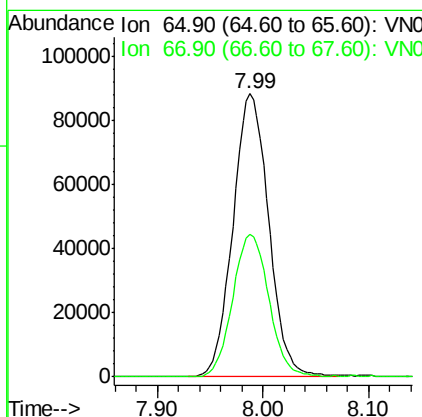
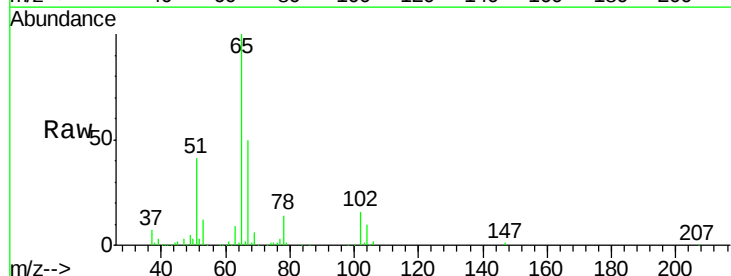
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MSVOA_N
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200916080-01-VOA

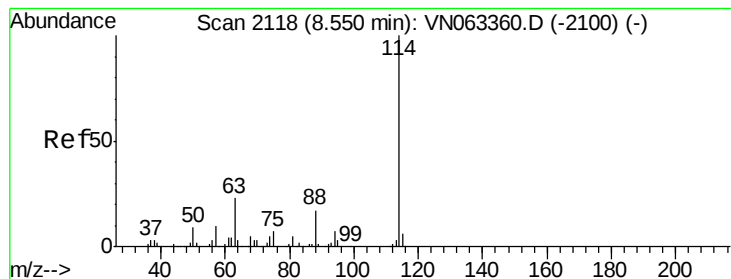
Tot Ion: 83 Resp: 1933
Ion Ratio Lower Upper
83 100
85 48.7 52.1 78.1#



#33
1,2-Dichloroethane-d4
Concen: 47.617 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

Tgt Ion: 65 Resp: 208571
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

200916080-01-VOA

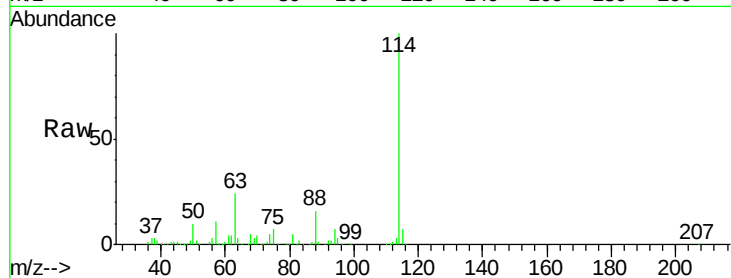
Tot Ion:114 Resp: 474121

Ion Ratio Lower Upper

114 100

63 23.8 0.0 46.4

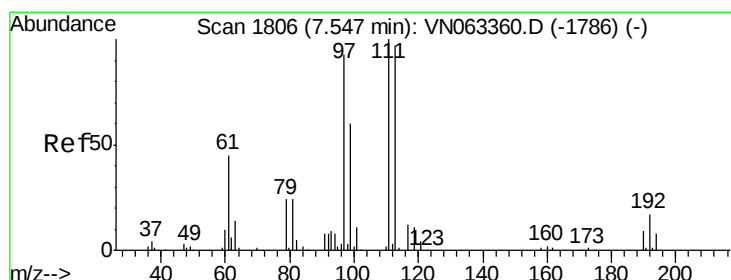
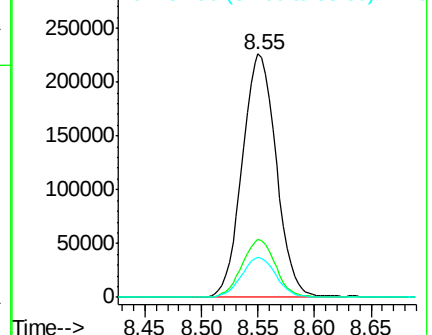
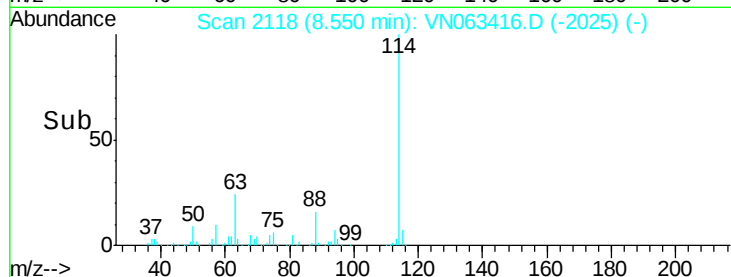
88 16.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 46.901 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

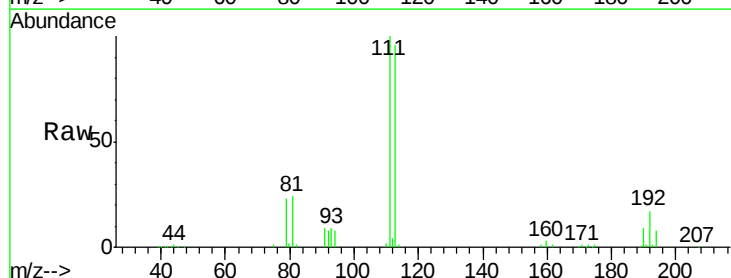
Tgt Ion:113 Resp: 153942

Ion Ratio Lower Upper

113 100

111 104.3 82.9 124.3

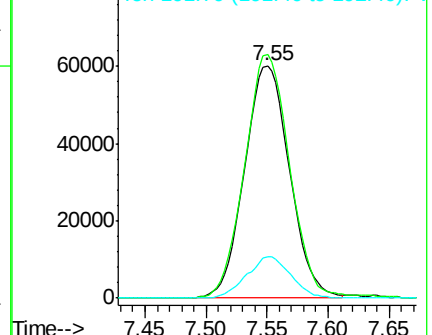
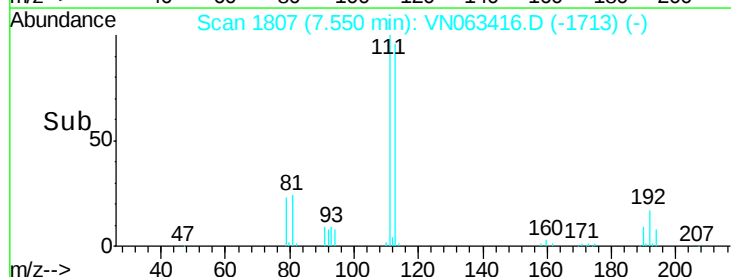
192 17.3 13.9 20.9

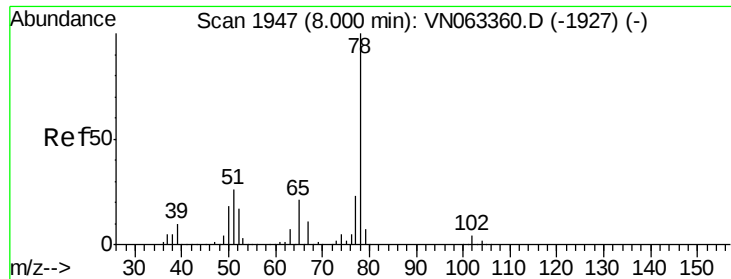


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 3.526 ug/l

RT: 8.00 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

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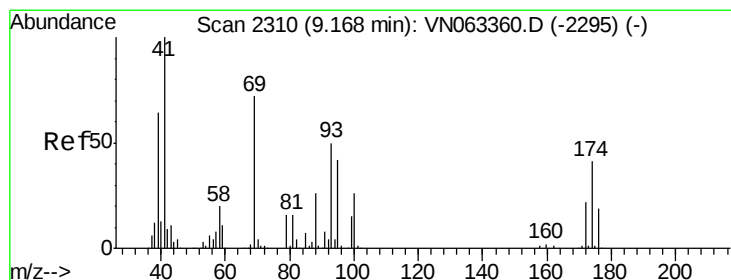
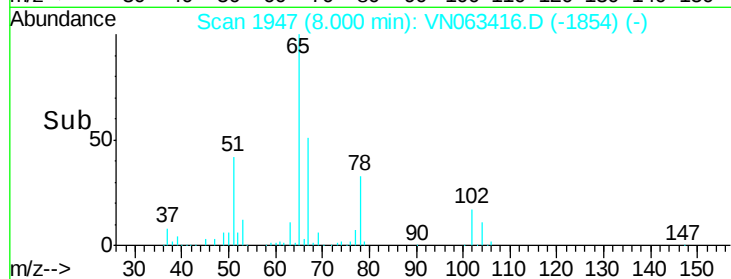
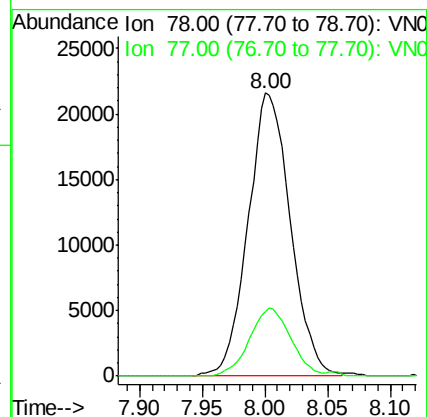
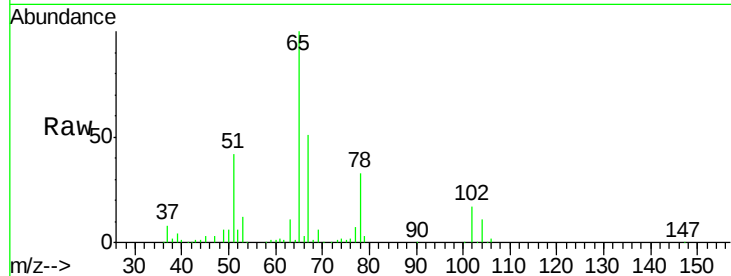
200916080-01-VOA

Tot Ion: 78 Resp: 50841

Ion Ratio Lower Upper

78 100

77 22.8 18.3 27.5



#49

1,4-Dioxane

Concen: 90.290 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

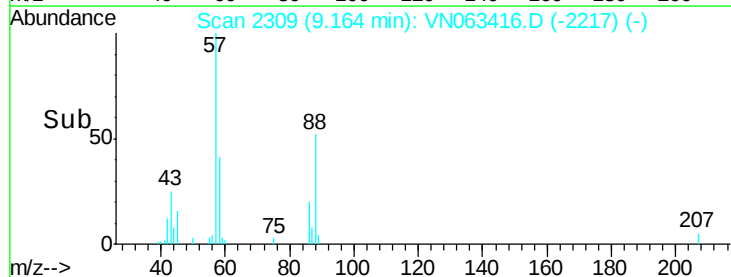
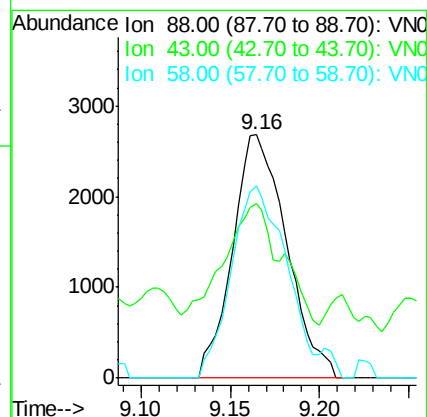
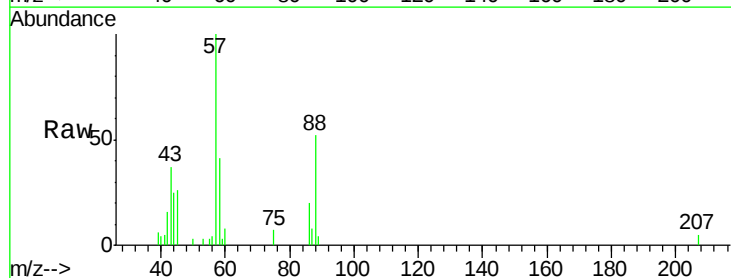
Tgt Ion: 88 Resp: 5643

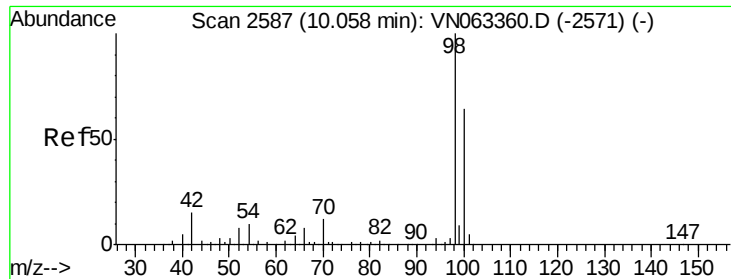
Ion Ratio Lower Upper

88 100

43 53.6 32.6 49.0#

58 81.0 60.0 90.0





#50

Toluene-d8

Concen: 49.708 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

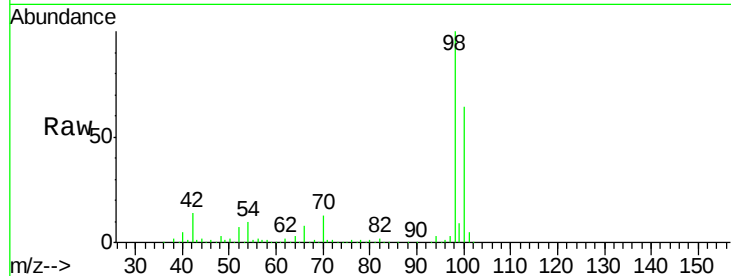
200916080-01-VOA

Tot Ion: 98 Resp: 613491

Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063416.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063416.D (-2571) (-)

10.06

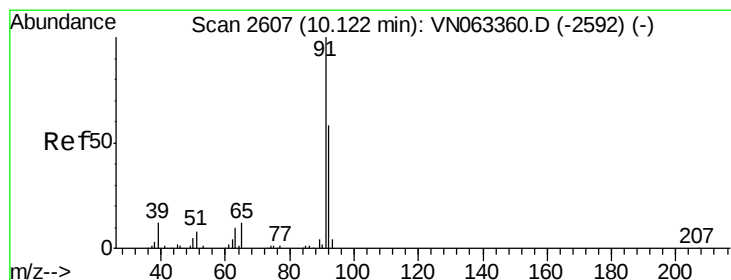
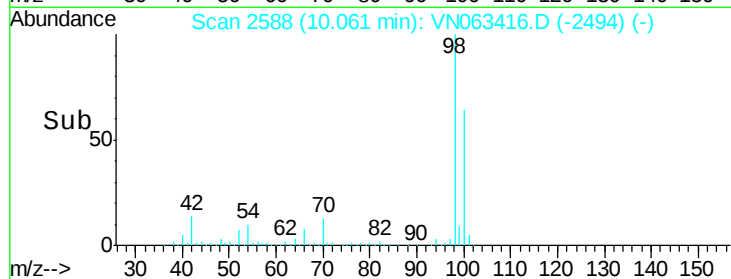
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 4.070 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063416.D

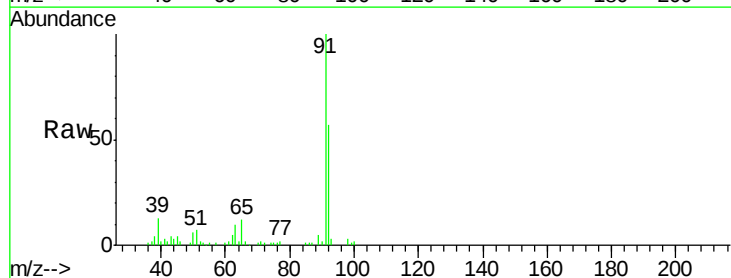
Acq: 17 Sep 2020 14:02

Tgt Ion: 92 Resp: 35280

Ion Ratio Lower Upper

92 100

91 181.4 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063416.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VN063416.D (-2514) (-)

10.13

40000

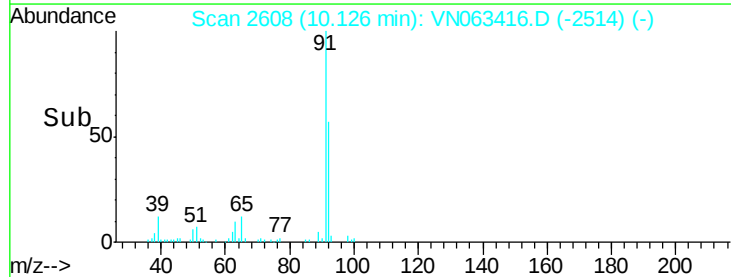
30000

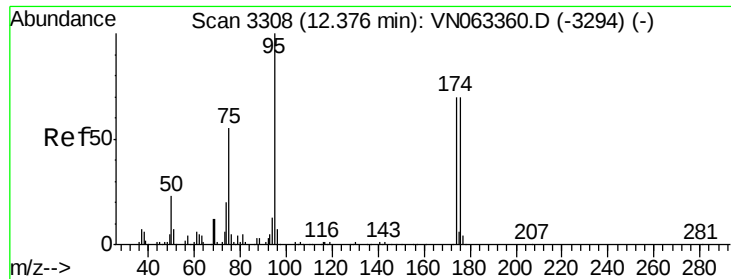
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 55.979 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

200916080-01-VOA

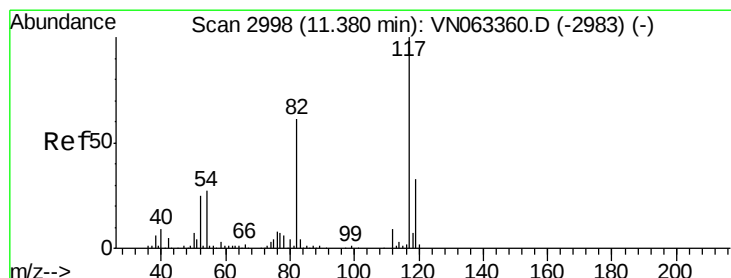
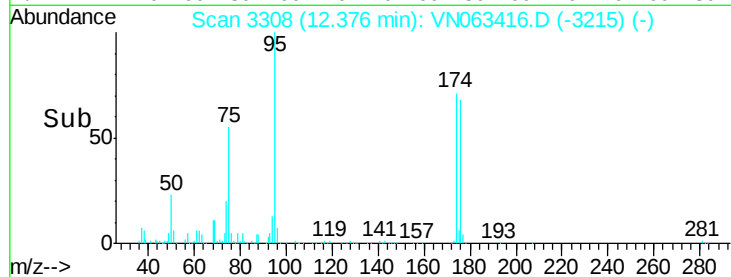
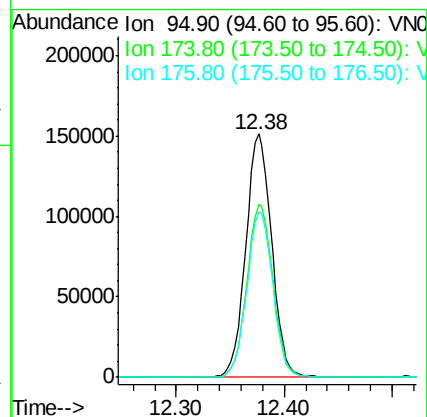
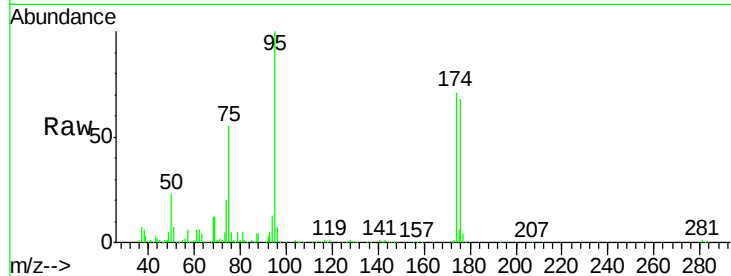
Tot Ion: 95 Resp: 253264

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.8

176 68.1 0.0 137.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

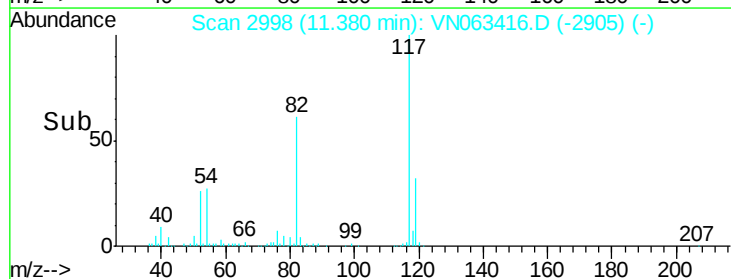
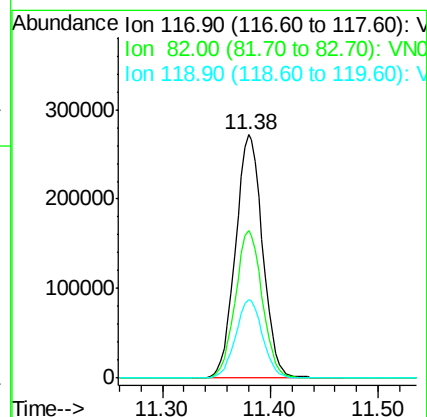
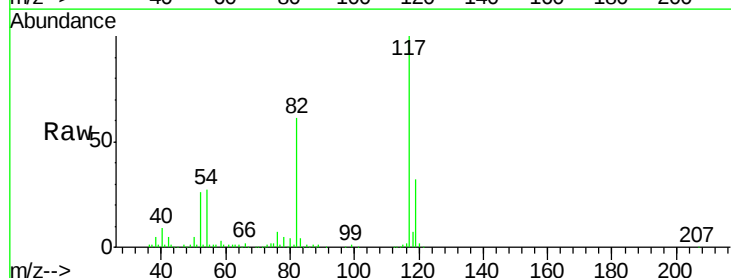
Tgt Ion: 117 Resp: 476108

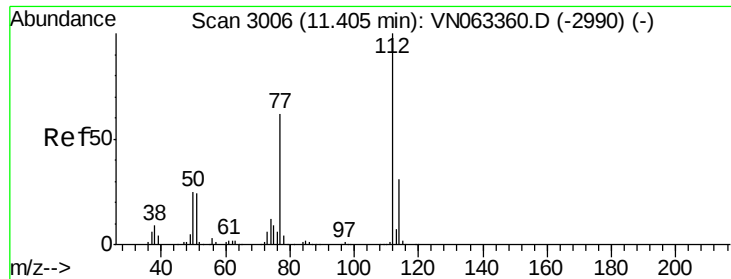
Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

119 32.1 26.2 39.4

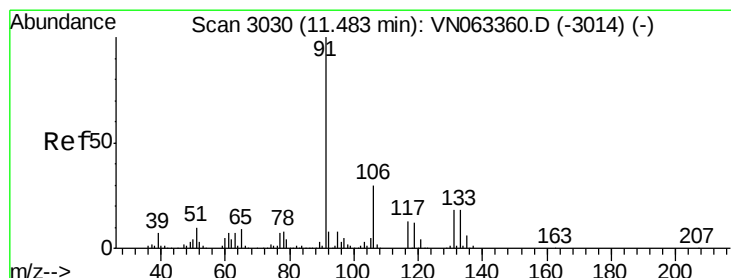
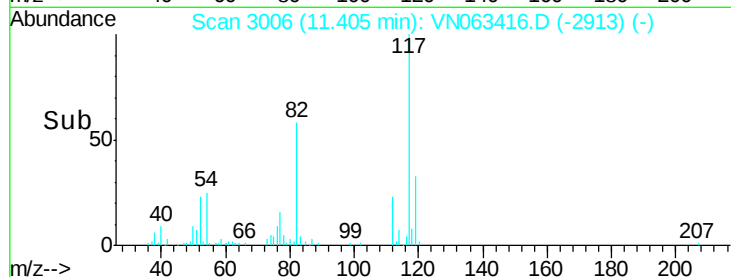
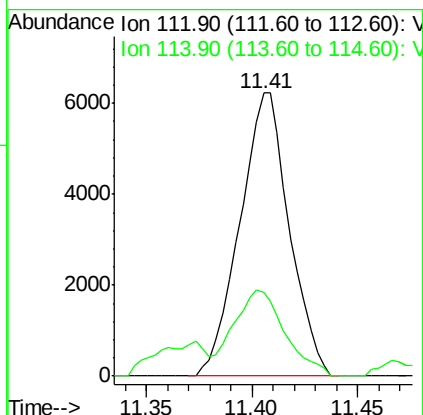
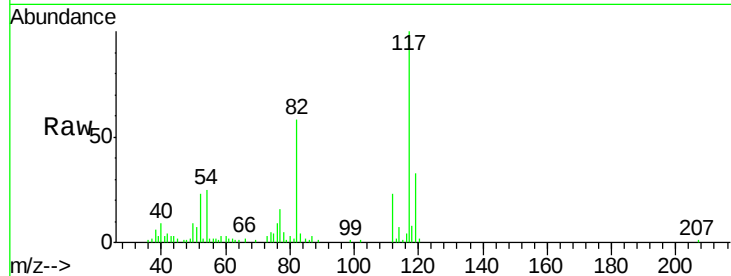




#65
Chlorobenzene
Concen: 1.001 ug/l
RT: 11.41 min Scan# 3006
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

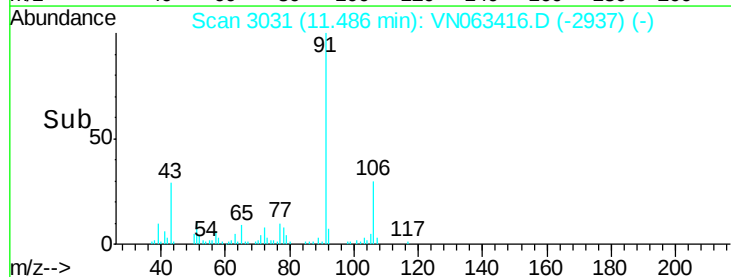
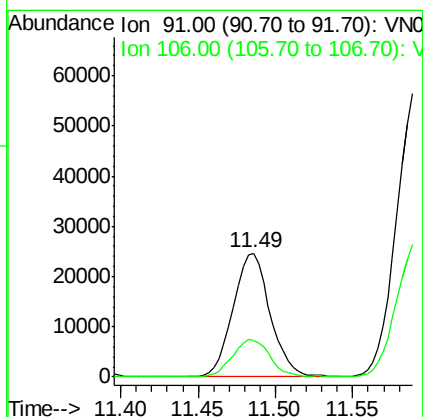
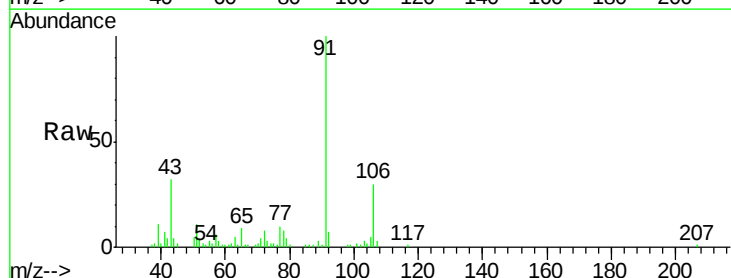
Instrument :
MSVOA_N
ClientSampleId :
200916080-01-VOA

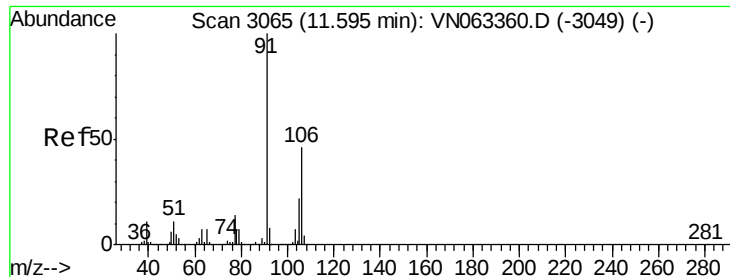
Tot Ion:112 Resp: 10121
Ion Ratio Lower Upper
112 100
114 29.6 25.0 37.6



#67
Ethyl Benzene
Concen: 2.158 ug/l
RT: 11.49 min Scan# 3031
Delta R.T. 0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

Tgt Ion: 91 Resp: 41079
Ion Ratio Lower Upper
91 100
106 29.7 23.8 35.6

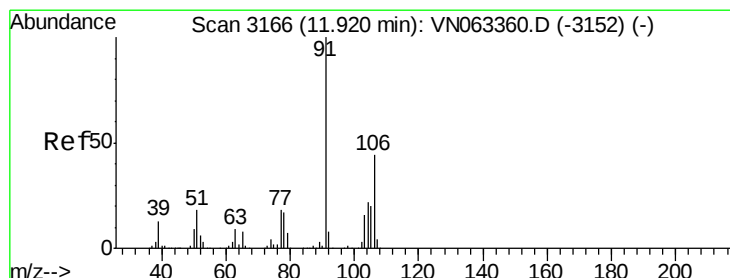
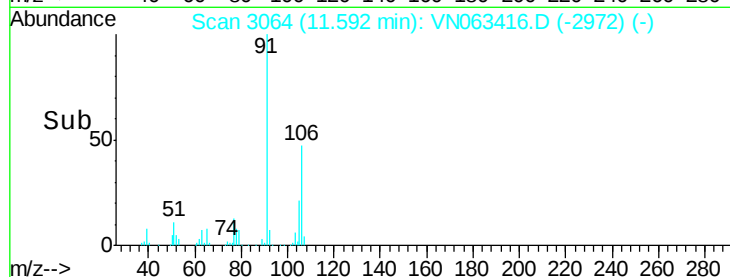
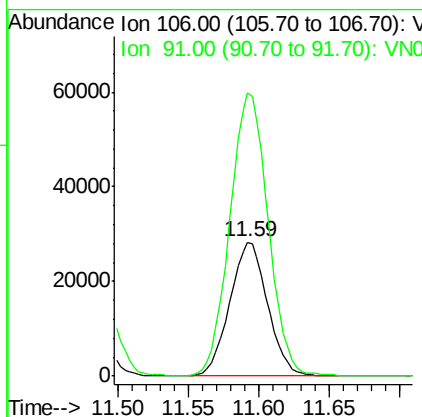
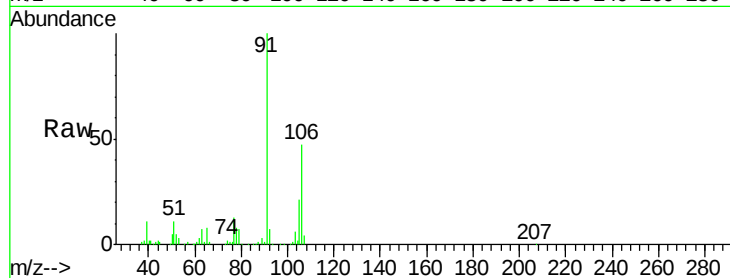




#68
m/p-Xylenes
Concen: 7.738 ug/l
RT: 11.59 min Scan# 3064
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

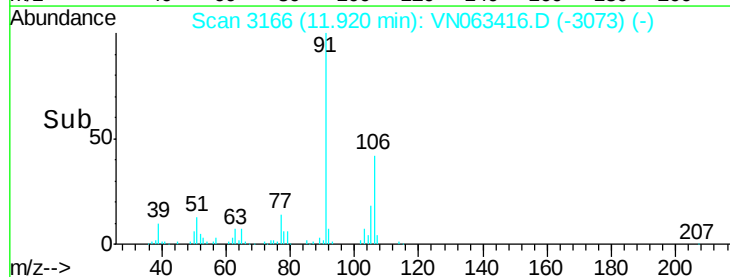
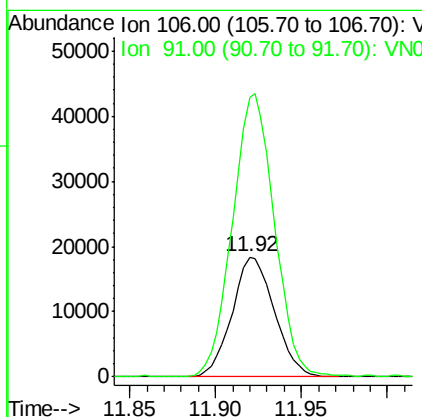
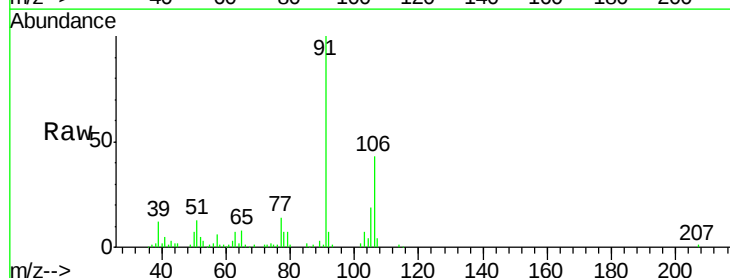
Instrument :
MSVOA_N
ClientSampleId :
200916080-01-VOA

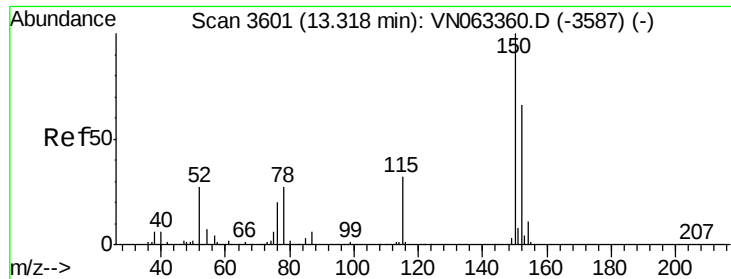
Tot Ion:106 Resp: 53100
Ion Ratio Lower Upper
106 100
91 214.1 171.2 256.8



#69
o-Xylene
Concen: 4.800 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. -0.00 min
Lab File: VN063416.D
Acq: 17 Sep 2020 14:02

Tgt Ion:106 Resp: 31378
Ion Ratio Lower Upper
106 100
91 234.4 113.6 340.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063416.D

Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

200916080-01-VOA

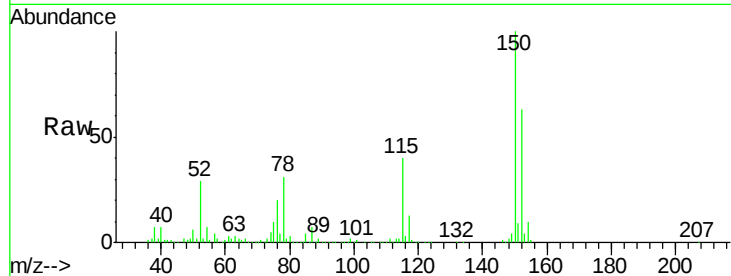
Tot Ion:152 Resp: 213940

Ion Ratio Lower Upper

152 100

115 63.1 32.2 96.6

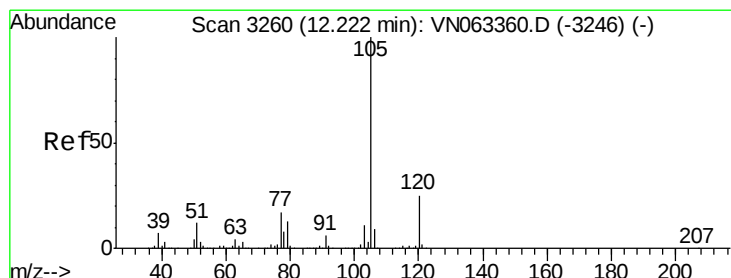
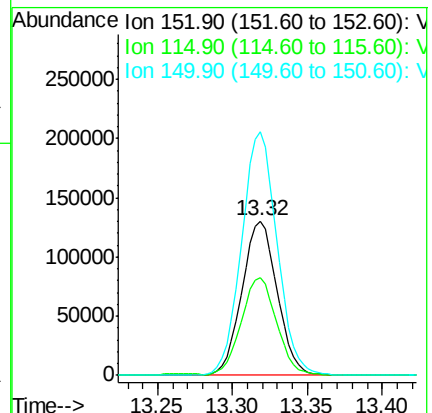
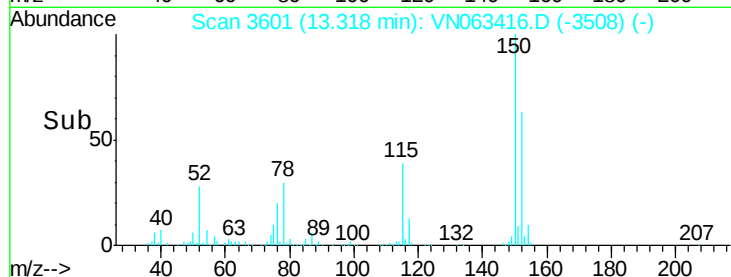
150 159.2 0.0 343.4



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



#73

Isopropylbenzene

Concen: 0.254 ug/l

RT: 12.22 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN063416.D

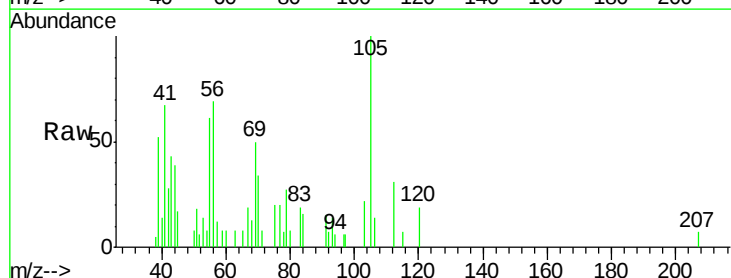
Acq: 17 Sep 2020 14:02

Tgt Ion:105 Resp: 4350

Ion Ratio Lower Upper

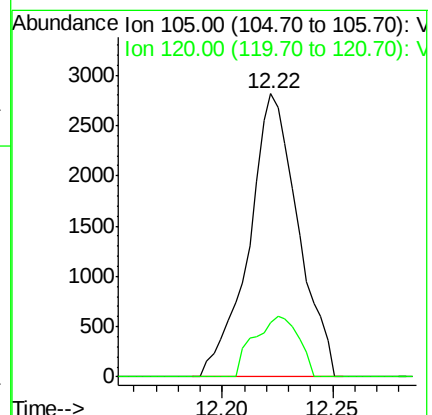
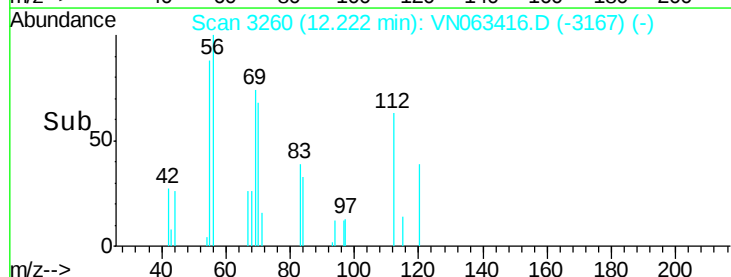
105 100

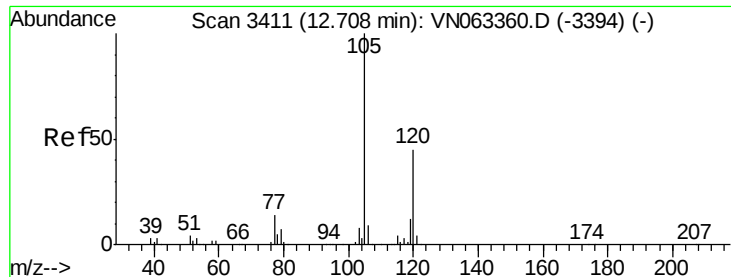
120 19.2 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

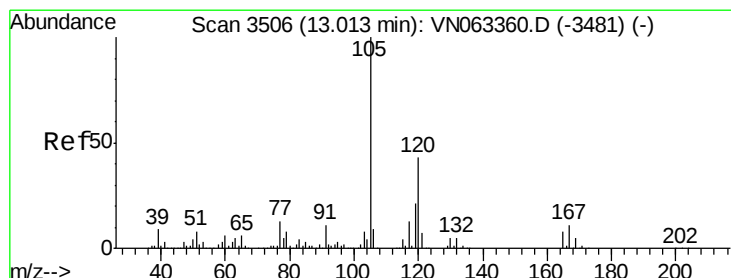
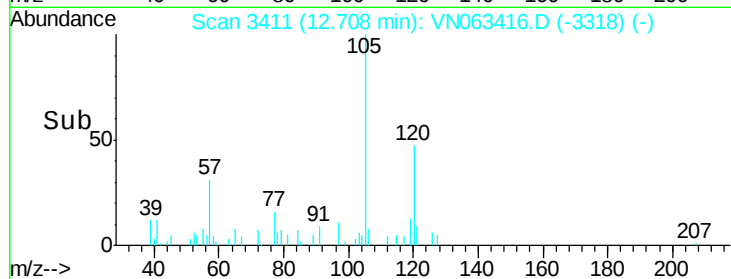
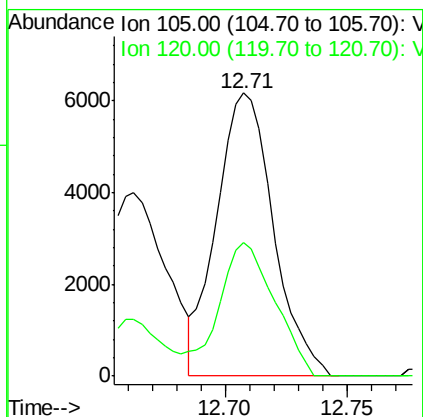
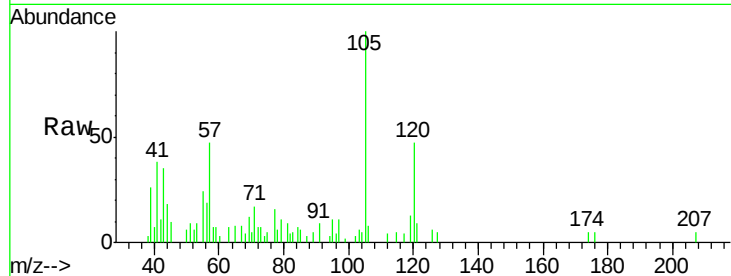




#80
 1,3,5-Trimethylbenzene
 Concen: 0.700 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063416.D
 Acq: 17 Sep 2020 14:02

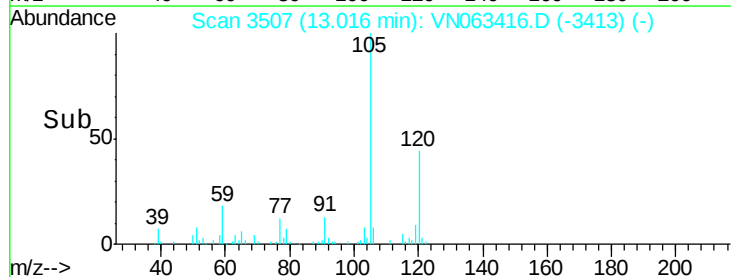
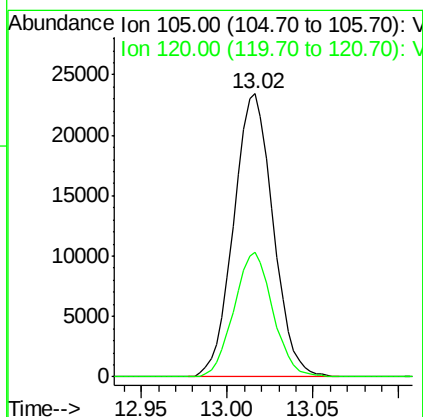
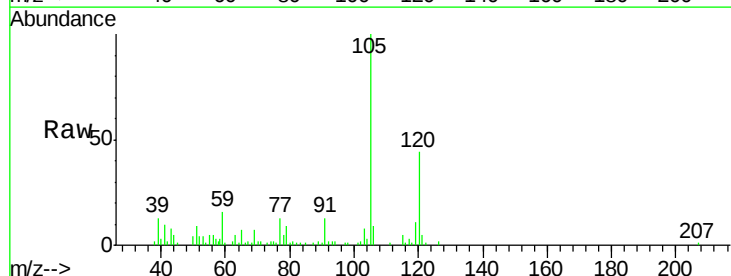
Instrument :
 MSVOA_N
 ClientSampleId :
 200916080-01-VOA

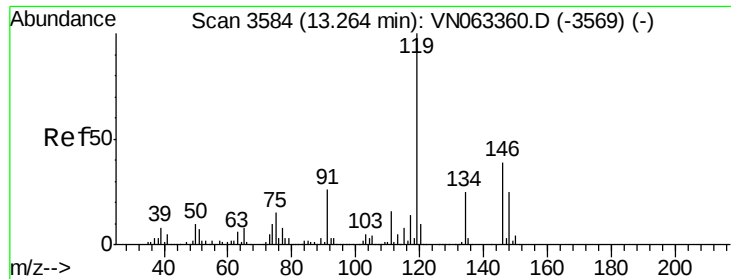
Tot Ion:105 Resp: 10007
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.9 68.8



#84
 1,2,4-Trimethylbenzene
 Concen: 2.588 ug/l
 RT: 13.02 min Scan# 3507
 Delta R.T. 0.00 min
 Lab File: VN063416.D
 Acq: 17 Sep 2020 14:02

Tgt Ion:105 Resp: 37377
 Ion Ratio Lower Upper
 105 100
 120 43.3 21.3 63.9

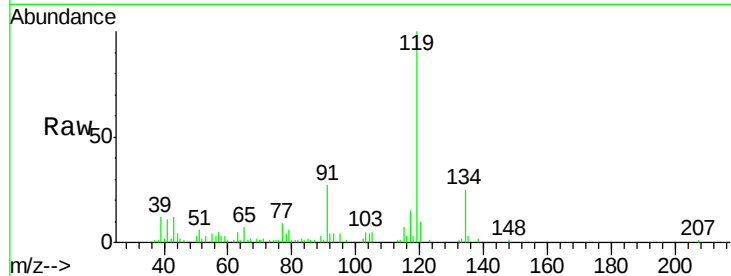




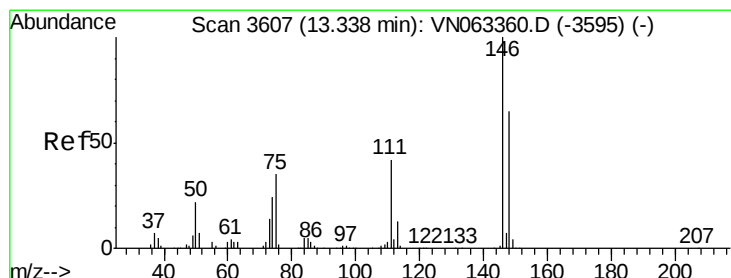
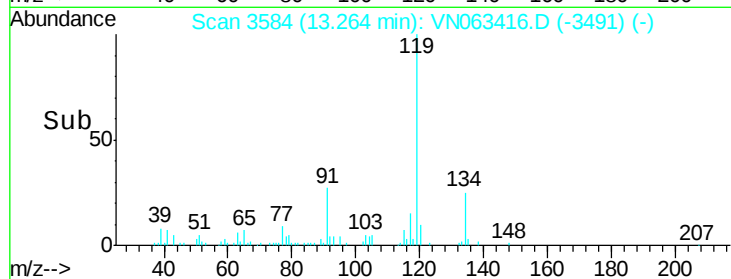
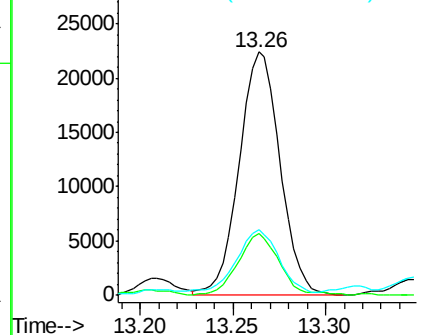
#86
 p-Isopropyltoluene
 Concen: 2.466 ug/l
 RT: 13.26 min Scan# 3584
 Delta R.T. -0.00 min
 Lab File: VN063416.D
 Acq: 17 Sep 2020 14:02

Instrument :
 MSVOA_N
 ClientSampleId :
 200916080-01-VOA

Tot Ion:119 Resp: 34348
 Ion Ratio Lower Upper
 119 100
 134 25.4 12.5 37.5
 91 25.5 13.4 40.1

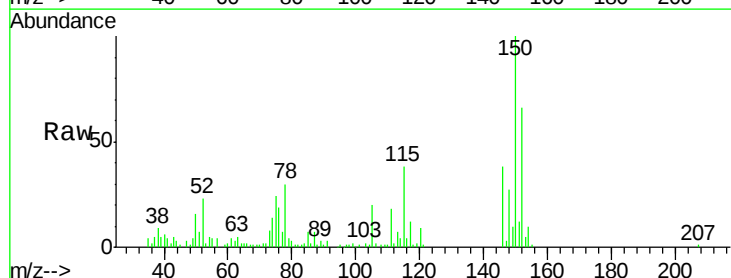


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

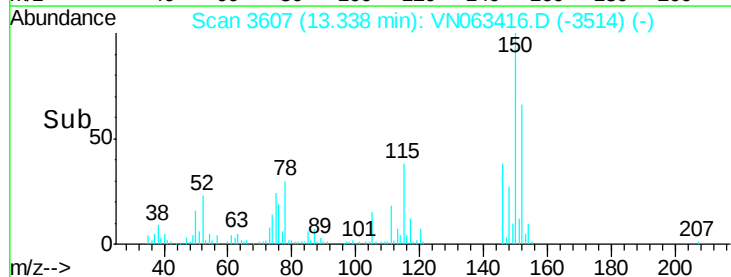
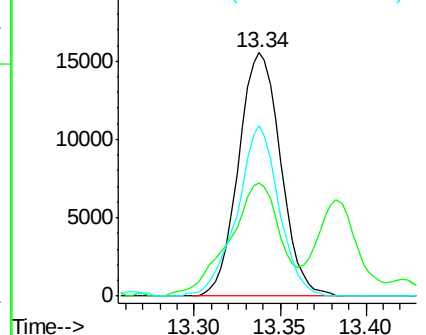


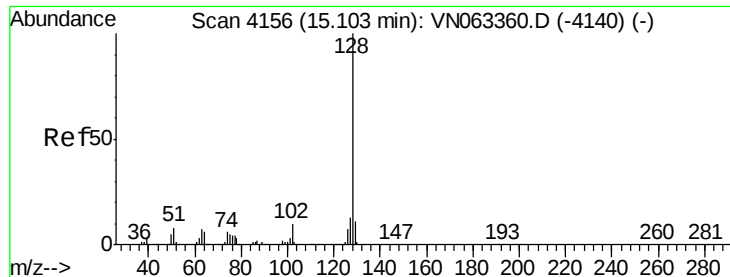
#88
 1,4-Dichlorobenzene
 Concen: 3.635 ug/l
 RT: 13.34 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VN063416.D
 Acq: 17 Sep 2020 14:02

Tgt Ion:146 Resp: 26419
 Ion Ratio Lower Upper
 146 100
 111 56.2 21.2 63.6
 148 69.6 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 31.182 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063416.D

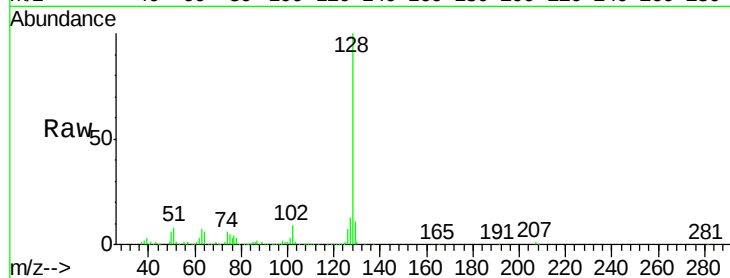
Acq: 17 Sep 2020 14:02

Instrument :

MSVOA_N

ClientSampleId :

200916080-01-VOA



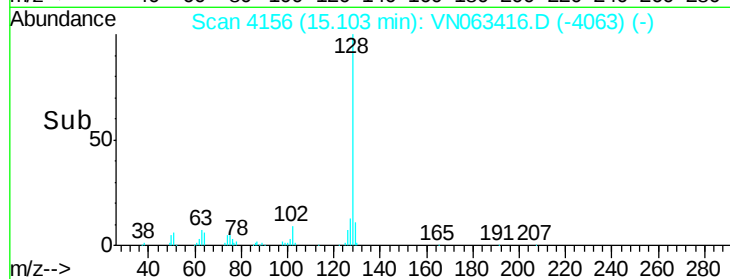
Tot Ion:128 Resp: 426198

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 10.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

