

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092820\
 Data File : VN063718.D
 Acq On : 28 Sep 2020 20:20
 Operator : JC/MD
 Sample : L4178-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

Quant Time: Sep 29 05:07:58 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

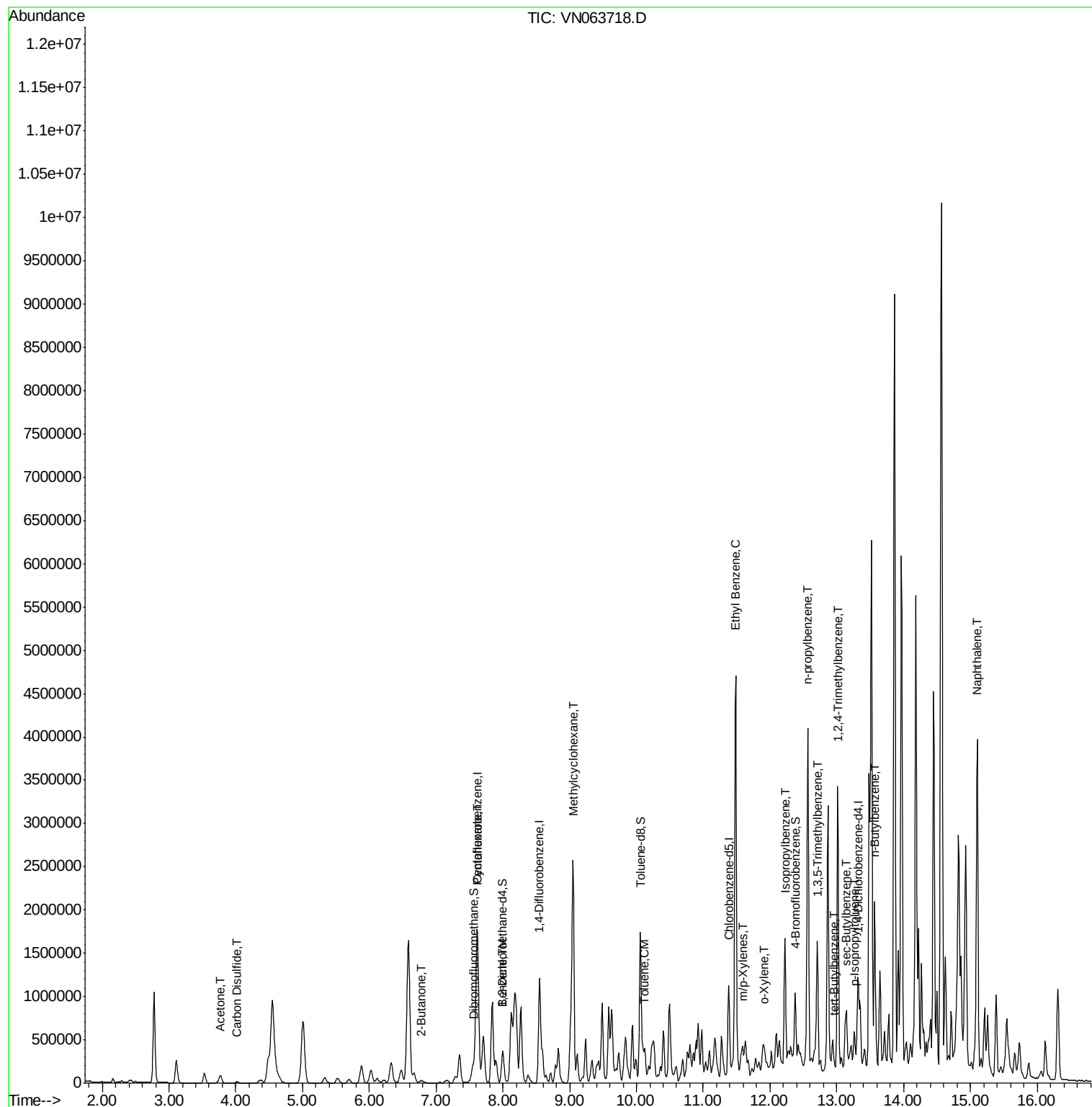
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	259749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	473873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	490139	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	254497	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	200163	45.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.54%	
35) Dibromofluoromethane	7.55	113	148029	45.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.24%	
50) Toluene-d8	10.06	98	647676	52.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.02%	
62) 4-Bromofluorobenzene	12.38	95	283590	62.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.42%	
Target Compounds						
					Qvalue	
16) Acetone	3.77	43	81147	57.104	ug/l #	80
17) Carbon Disulfide	4.02	76	7602	0.892	ug/l #	84
25) 2-Butanone	6.79	43	23770	10.876	ug/l	91
31) Cyclohexane	7.61	56	852072	139.530	ug/l	98
39) Methylcyclohexane	9.05	83	1040944	189.981	ug/l	97
40) Benzene	8.01	78	174200	12.088	ug/l	98
52) Toluene	10.13	92	135407	15.627	ug/l	100
67) Ethyl Benzene	11.49	91	3171161	161.850	ug/l	97
68) m/p-Xylenes	11.59	106	88497	12.527	ug/l	97
69) o-Xylene	11.92	106	40283	5.986	ug/l	95
73) Isopropylbenzene	12.23	105	977685	47.940	ug/l	99
78) n-propylbenzene	12.57	91	3031659	127.631	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	657029	38.635	ug/l	99
83) tert-Butylbenzene	12.97	119	15108	1.076	ug/l #	76
84) 1,2,4-Trimethylbenzene	13.02	105	1774634	103.312	ug/l	99
85) sec-Butylbenzene	13.15	105	357017	19.003	ug/l #	62
86) p-Isopropyltoluene	13.26	119	156343	9.435	ug/l	99
89) n-Butylbenzene	13.57	91	319423	20.912	ug/l #	1
95) Naphthalene	15.10	128	3141819	193.234	ug/l	100

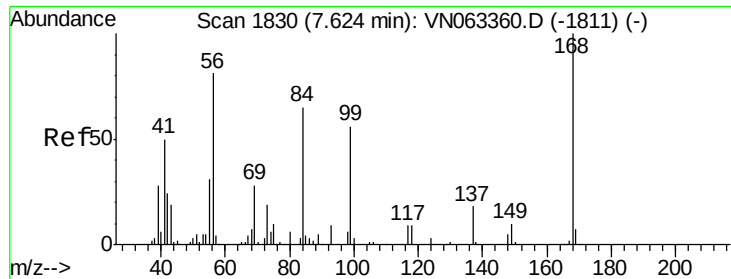
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

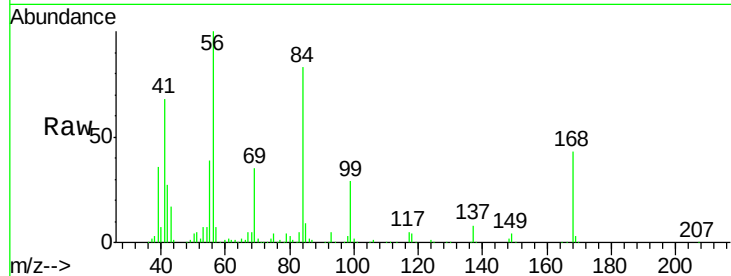
TP-6

Tot Ion:168 Resp: 259749

Ion Ratio Lower Upper

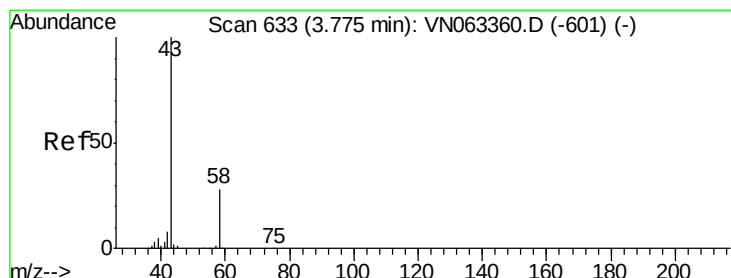
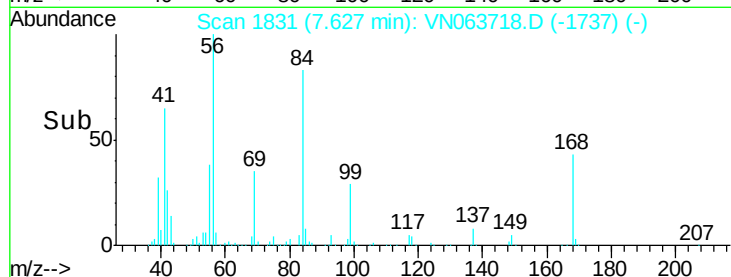
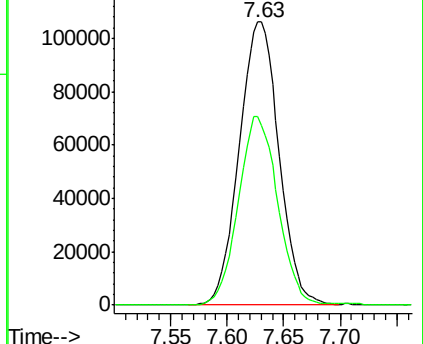
168 100

99 66.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 57.104 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063718.D

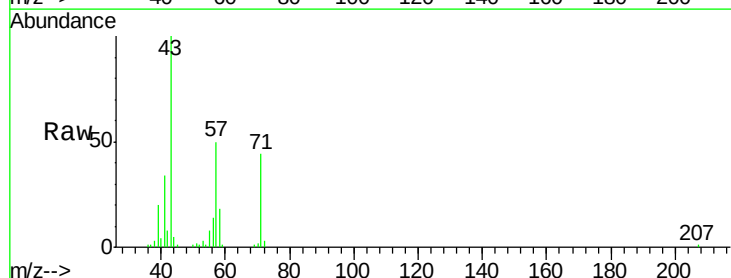
Acq: 28 Sep 2020 20:20

Tgt Ion: 43 Resp: 81147

Ion Ratio Lower Upper

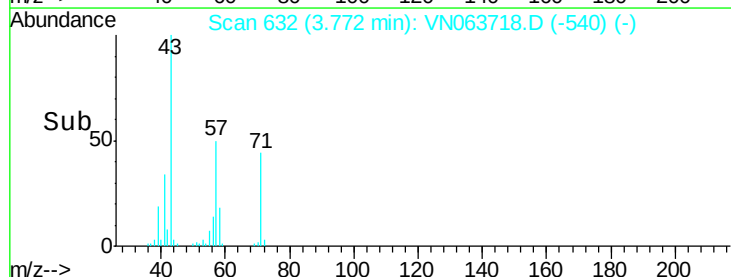
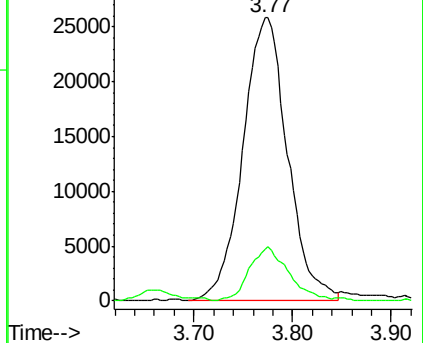
43 100

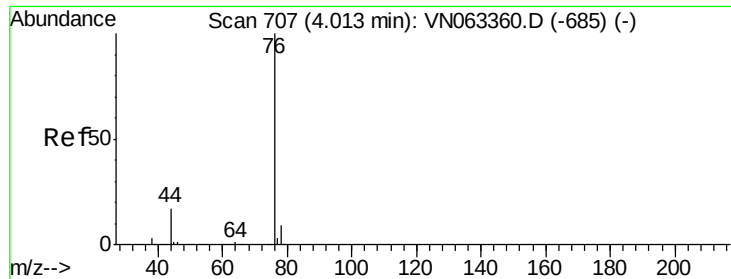
58 17.4 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.892 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

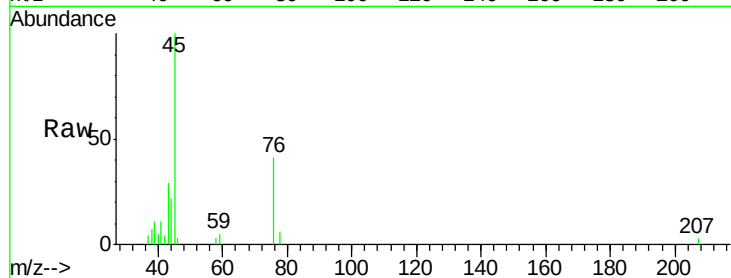
TP-6

Tot Ion: 76 Resp: 7602

Ion Ratio Lower Upper

76 100

78 14.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN063360.D (-685) (-)

Ion 77.90 (77.60 to 78.60): VN063360.D (-685) (-)

4.02

3000

2500

2000

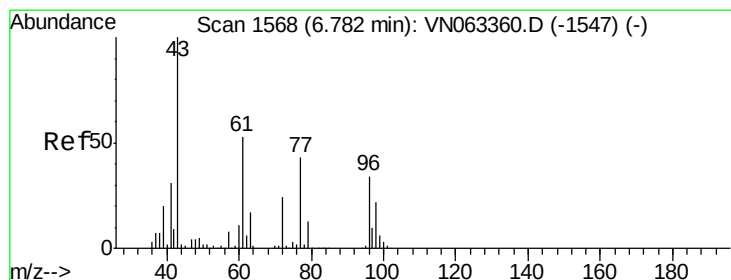
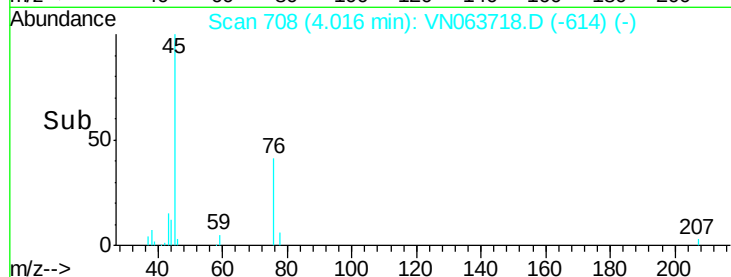
1500

1000

500

0

Time-->



#25

2-Butanone

Concen: 10.876 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063718.D

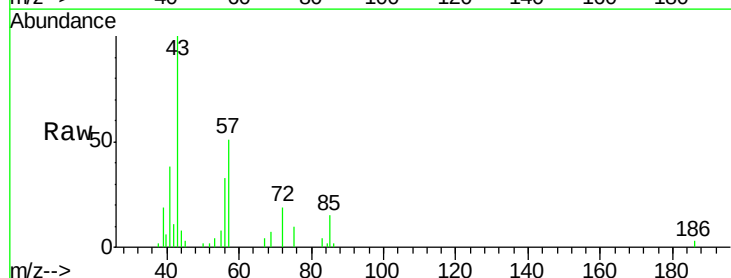
Acq: 28 Sep 2020 20:20

Tgt Ion: 43 Resp: 23770

Ion Ratio Lower Upper

43 100

72 19.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1547) (-)

Ion 72.00 (71.70 to 72.70): VN063360.D (-1547) (-)

6.79

8000

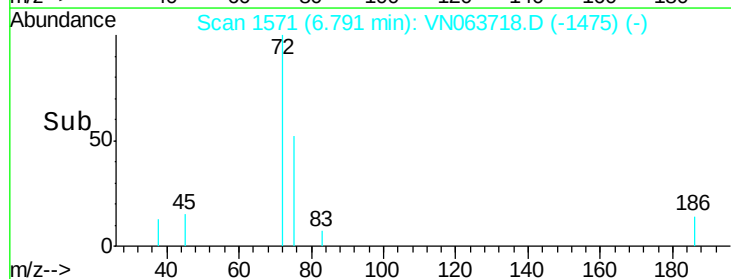
6000

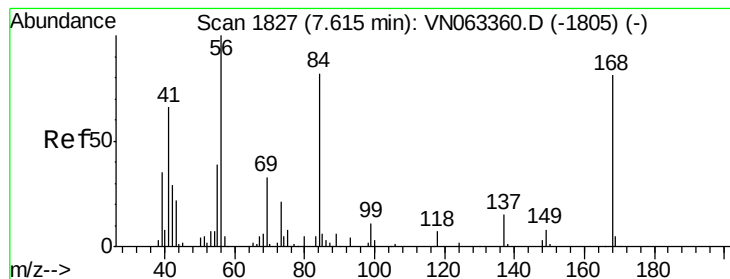
4000

2000

0

Time-->





#31

Cyclohexane

Concen: 139.530 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

TP-6

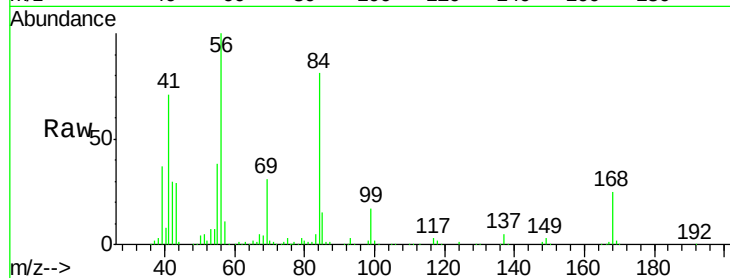
Tot Ion: 56 Resp: 852072

Ion Ratio Lower Upper

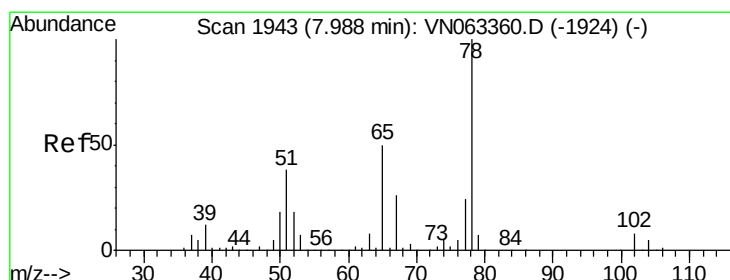
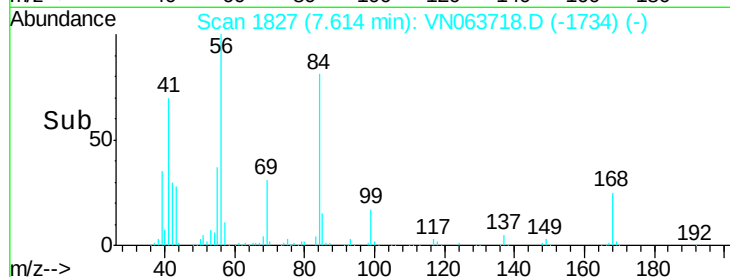
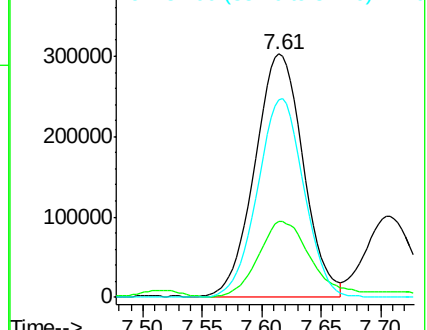
56 100

69 30.3 26.1 39.1

84 81.3 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 45.269 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063718.D

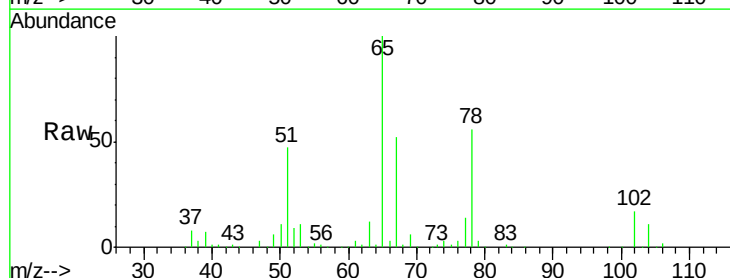
Acq: 28 Sep 2020 20:20

Tgt Ion: 65 Resp: 200163

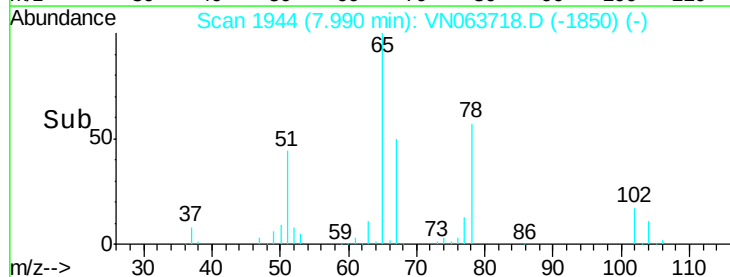
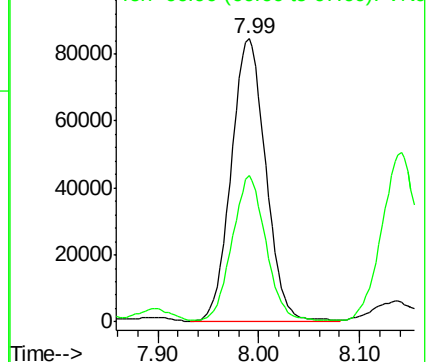
Ion Ratio Lower Upper

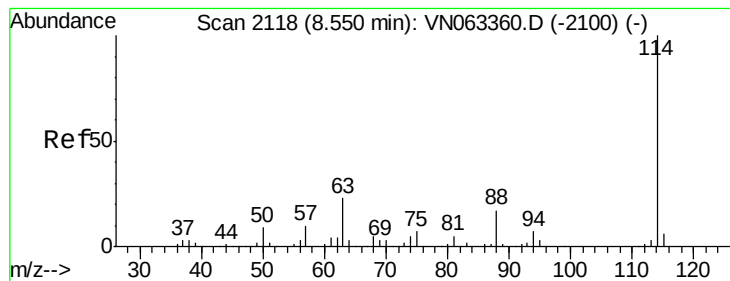
65 100

67 50.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

TP-6

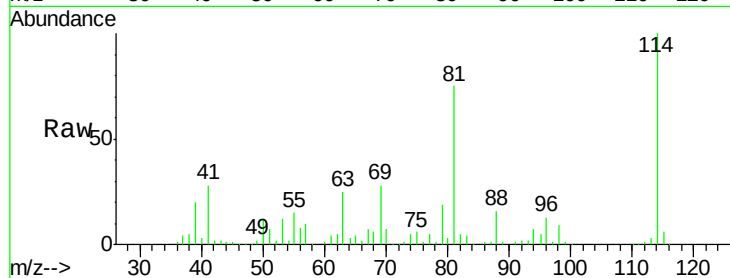
Tot Ion:114 Resp: 473873

Ion Ratio Lower Upper

114 100

63 25.0 0.0 46.4

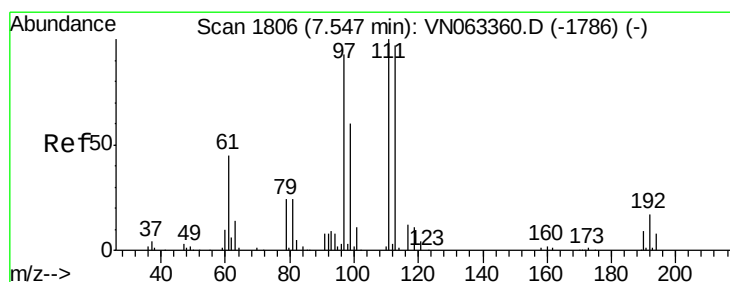
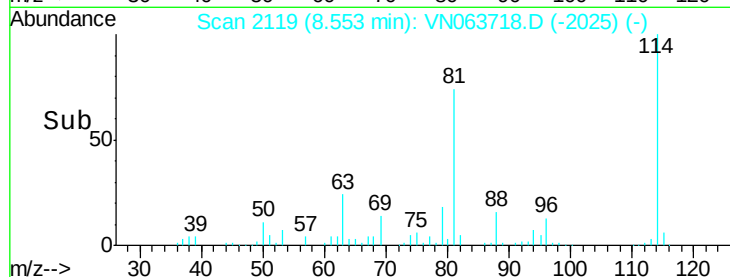
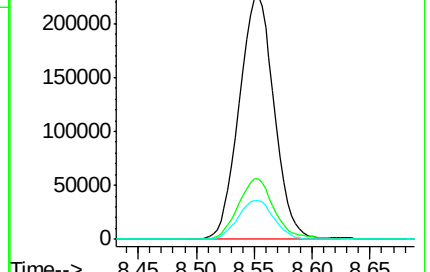
88 15.9 0.0 33.2



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: 45.124 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

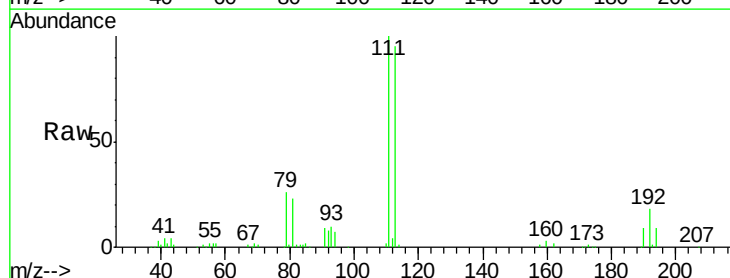
Tgt Ion:113 Resp: 148029

Ion Ratio Lower Upper

113 100

111 102.0 82.9 124.3

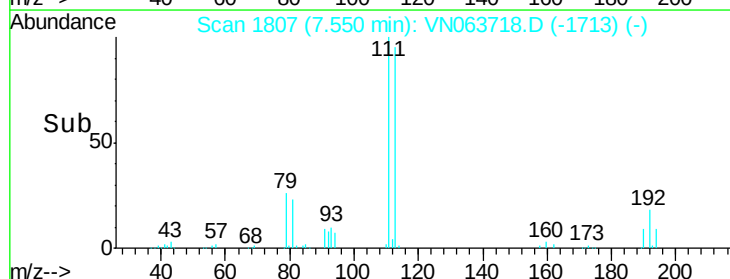
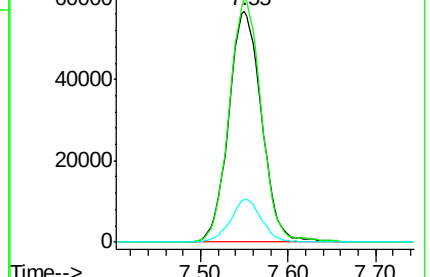
192 17.5 13.9 20.9

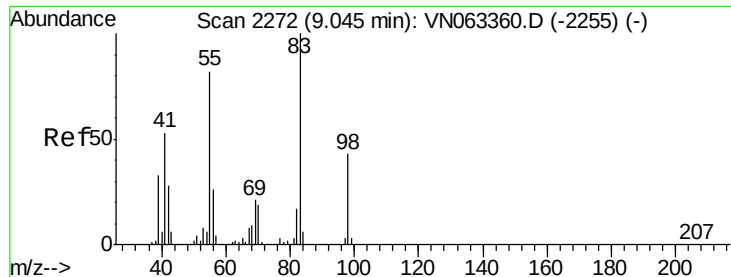


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

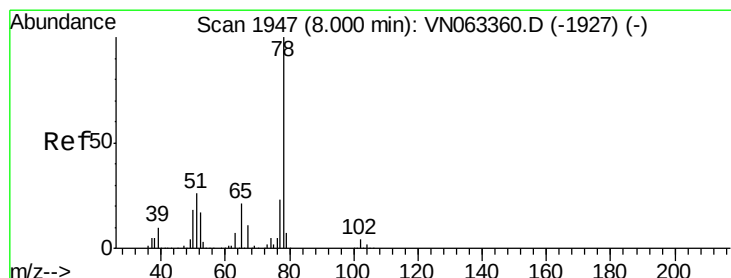
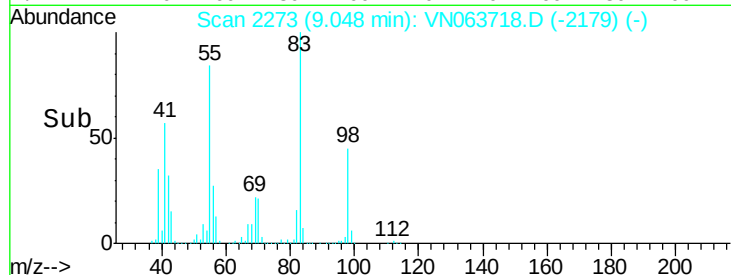
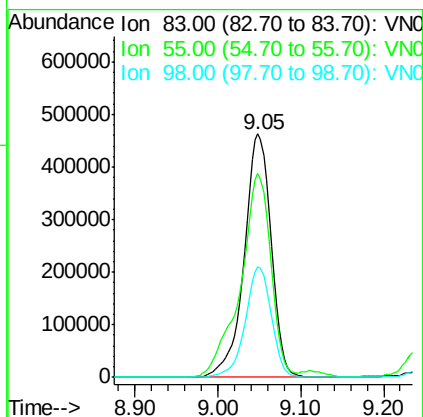
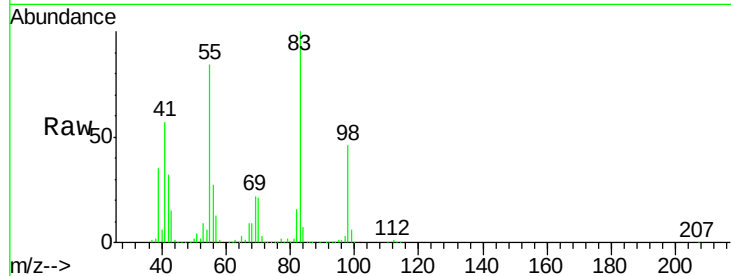




#39
Methylvlcyclohexane
Concen: 189.981 ug/l
RT: 9.05 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

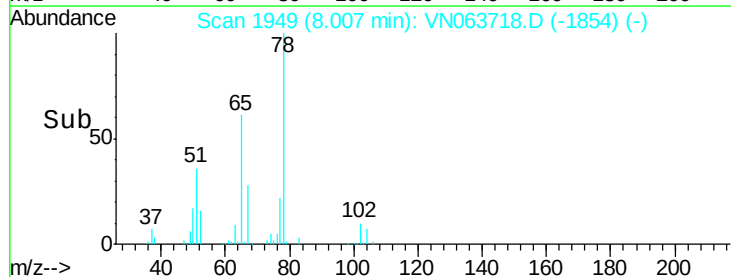
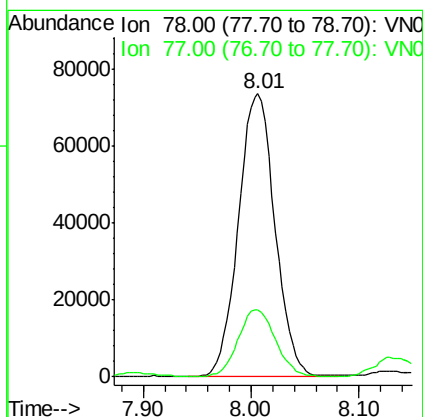
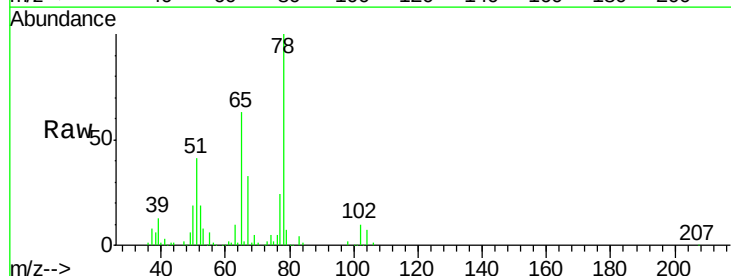
Instrument :
MSVOA_N
ClientSampled :
TP-6

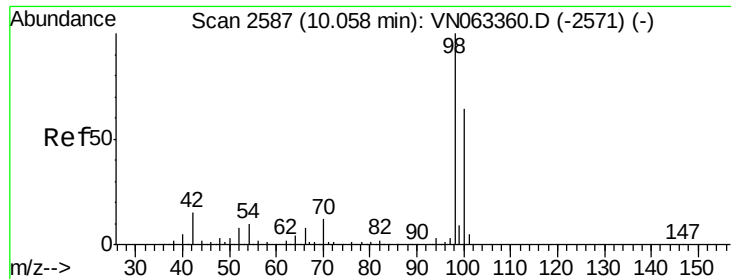
Tot Ion: 83 Resp: 1040944
Ion Ratio Lower Upper
83 100
55 83.6 65.5 98.3
98 45.6 34.2 51.4



#40
Benzene
Concen: 12.088 ug/l
RT: 8.01 min Scan# 1949
Delta R.T. 0.01 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

Tgt Ion: 78 Resp: 174200
Ion Ratio Lower Upper
78 100
77 23.7 18.3 27.5





#50

Toluene-d8

Concen: 52.506 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

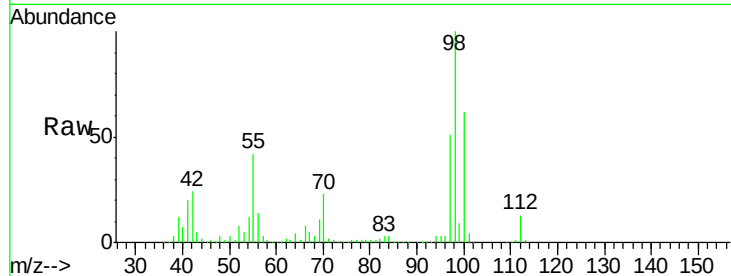
TP-6

Tot Ion: 98 Resp: 647676

Ion Ratio Lower Upper

98 100

100 59.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

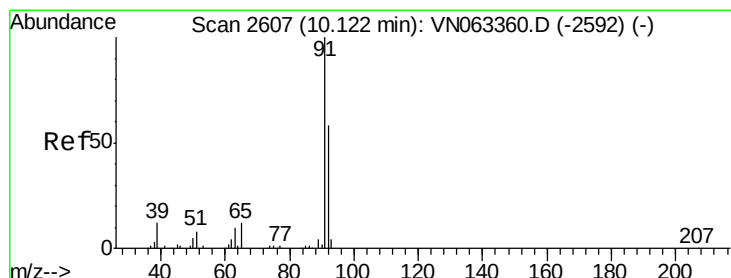
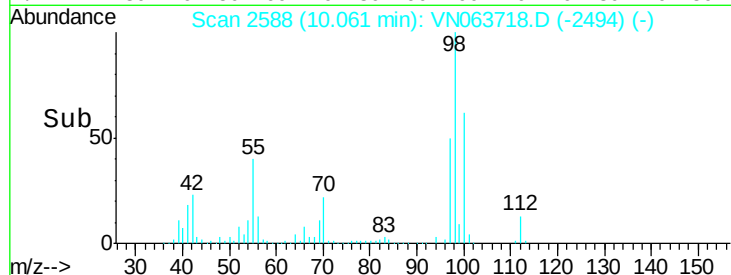
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 15.627 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063718.D

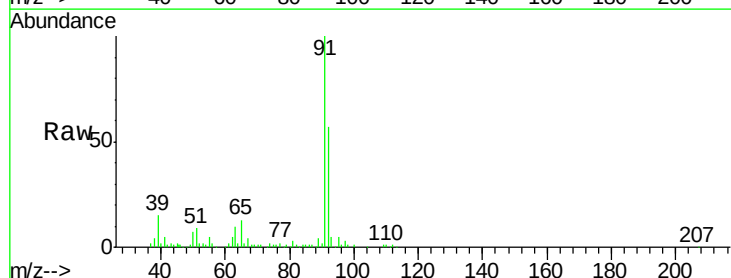
Acq: 28 Sep 2020 20:20

Tgt Ion: 92 Resp: 135407

Ion Ratio Lower Upper

92 100

91 175.1 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

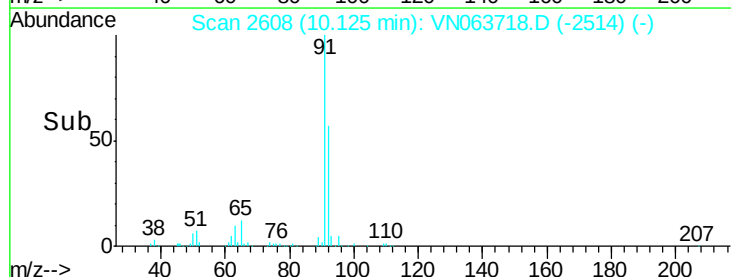
150000

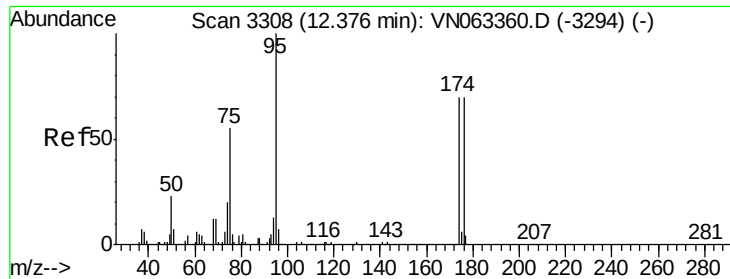
100000

50000

0

Time-->

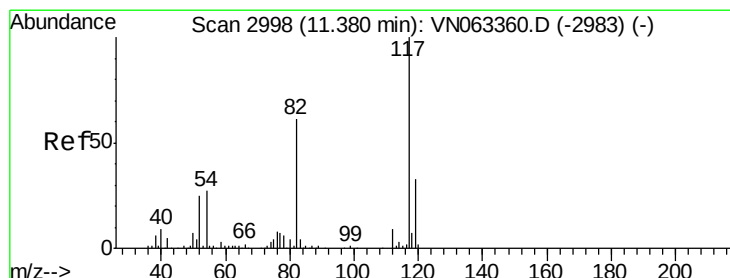
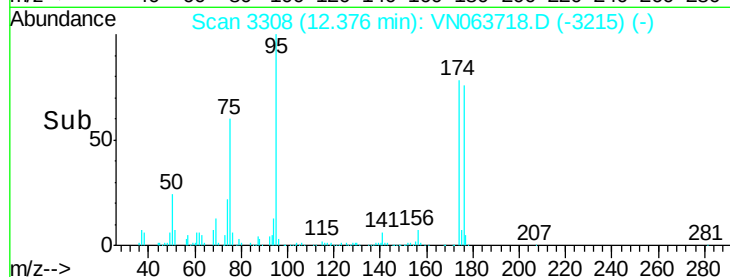
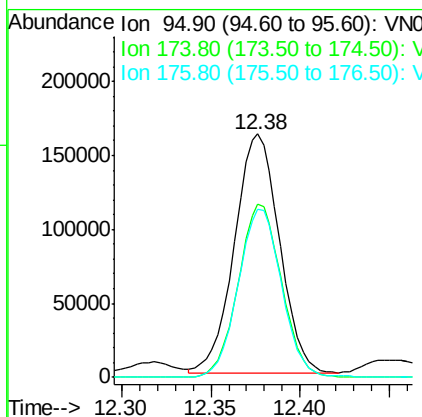
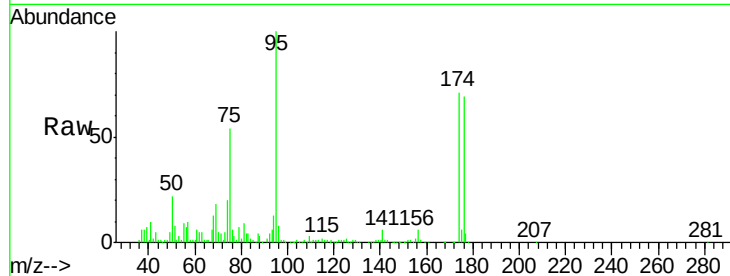




#62
4-Bromofluorobenzene
Concen: 62.715 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

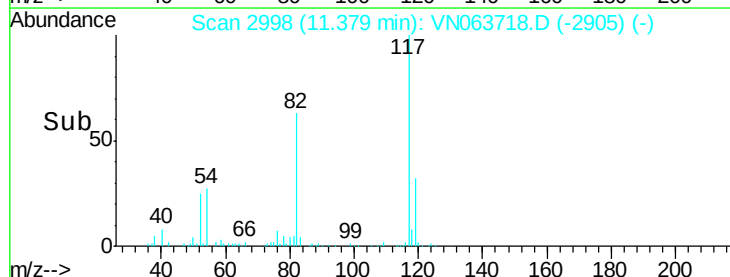
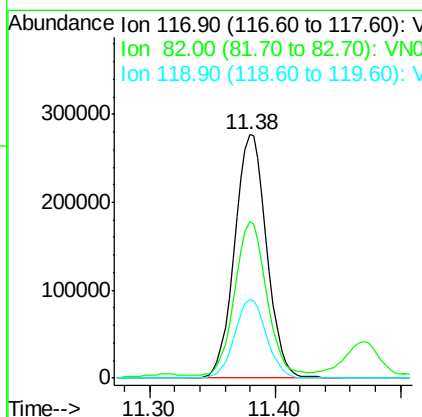
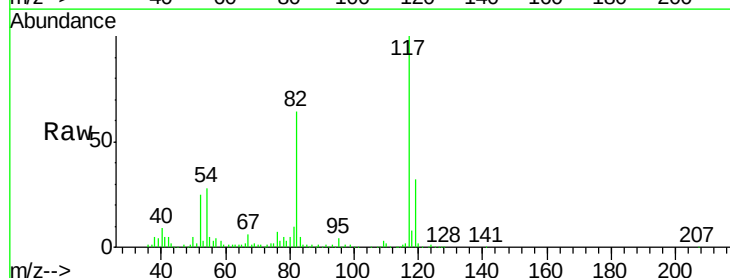
Instrument :
MSVOA_N
ClientSampled :
TP-6

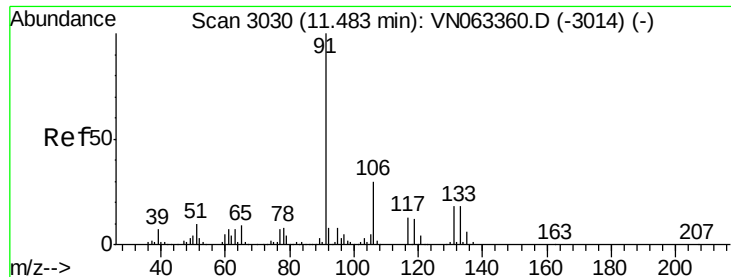
Tot Ion: 95 Resp: 283590
Ion Ratio Lower Upper
95 100
174 70.1 0.0 140.8
176 68.4 0.0 137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

Tgt Ion: 117 Resp: 490139
Ion Ratio Lower Upper
117 100
82 63.0 49.2 73.8
119 32.4 26.2 39.4





#67

Ethyl Benzene

Concen: 161.850 ug/l

RT: 11.49 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampleId :

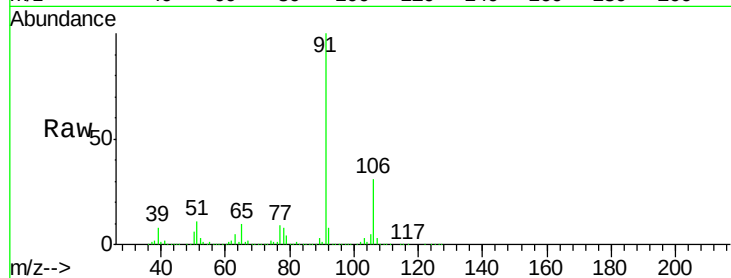
TP-6

Tot Ion: 91 Resp: 3171161

Ion Ratio Lower Upper

91 100

106 31.5 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): VN063718.D (-2937) (-)

Ion 106.00 (105.70 to 106.70): VN063718.D (-2937) (-)

11.49

2000000

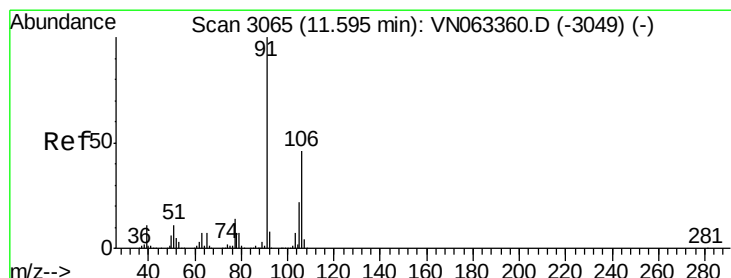
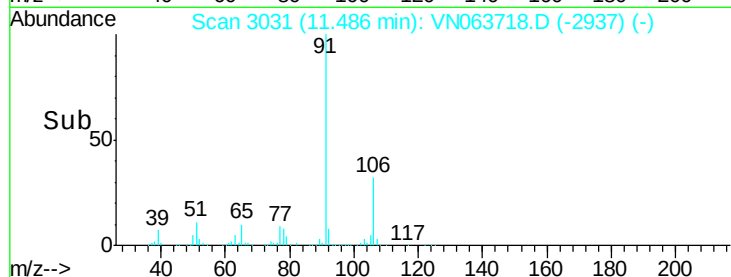
1500000

1000000

500000

0

Time-->



#68

m/p-Xylenes

Concen: 12.527 ug/l

RT: 11.59 min Scan# 3064

Delta R.T. -0.00 min

Lab File: VN063718.D

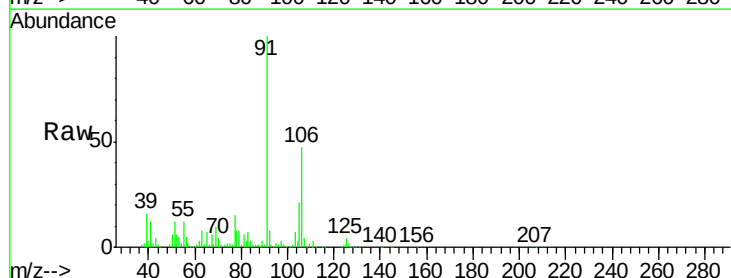
Acq: 28 Sep 2020 20:20

Tgt Ion: 106 Resp: 88497

Ion Ratio Lower Upper

106 100

91 210.0 171.2 256.8



Abundance Ion 106.00 (105.70 to 106.70): VN063718.D (-2972) (-)

Ion 91.00 (90.70 to 91.70): VN063718.D (-2972) (-)

11.59

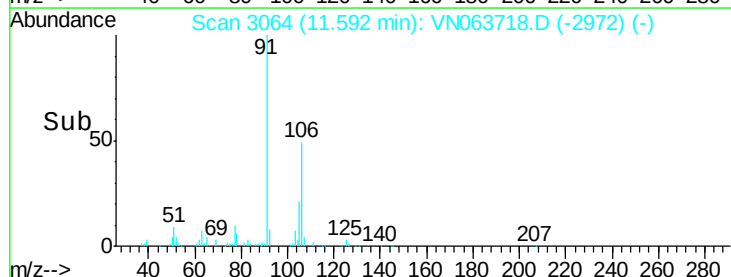
600000

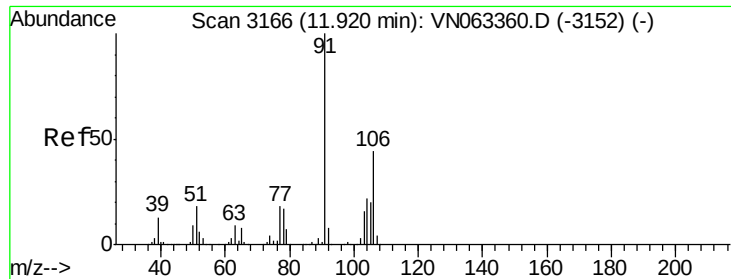
400000

200000

0

Time-->





#69

o-Xylene

Concen: 5.986 ug/l

RT: 11.92 min Scan# 3167

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

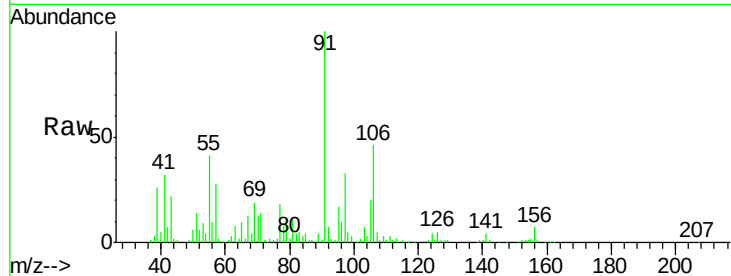
TP-6

Tot Ion:106 Resp: 40283

Ion Ratio Lower Upper

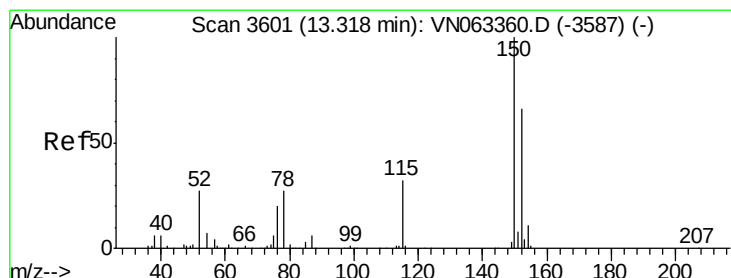
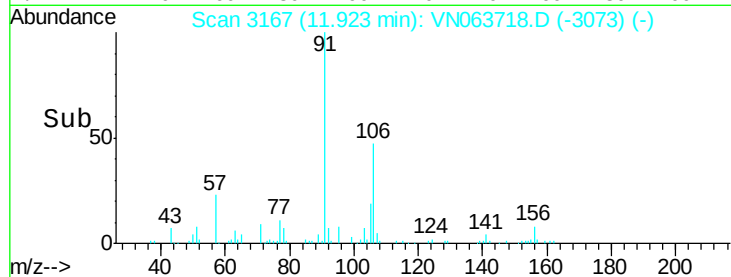
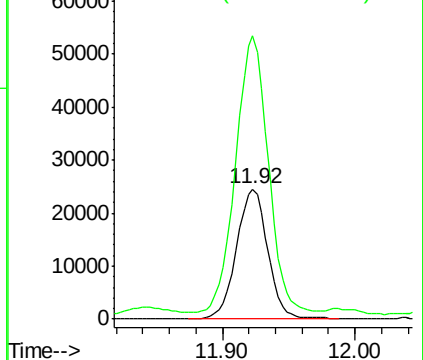
106 100

91 219.5 113.6 340.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

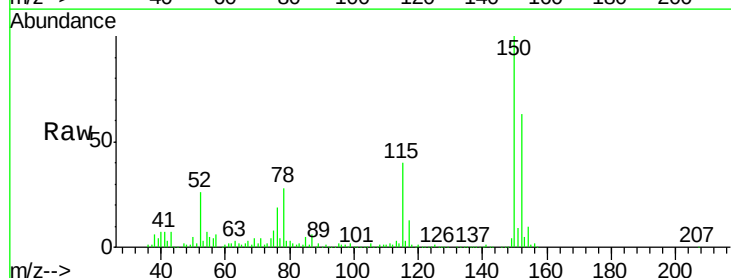
Tgt Ion:152 Resp: 254497

Ion Ratio Lower Upper

152 100

115 67.8 32.2 96.6

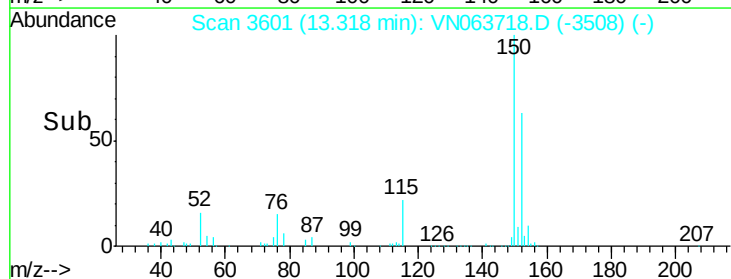
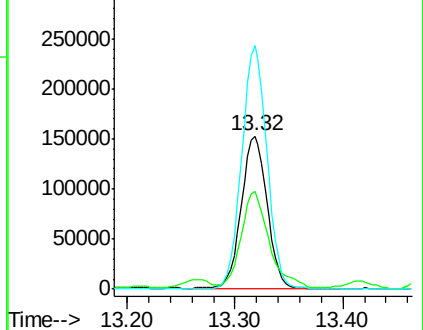
150 155.0 0.0 343.4

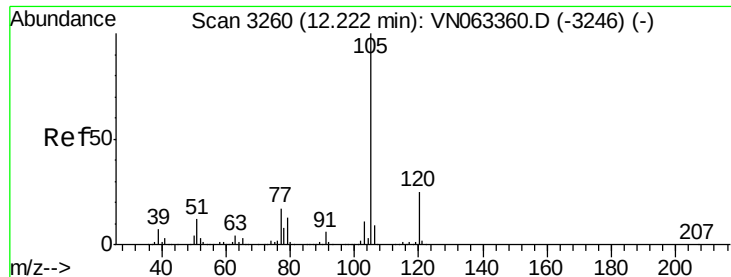


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.940 ug/l

RT: 12.23 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN063718.D

Acq: 28 Sep 2020 20:20

Instrument :

MSVOA_N

ClientSampled :

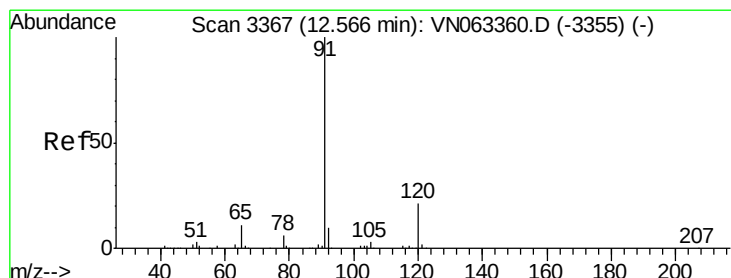
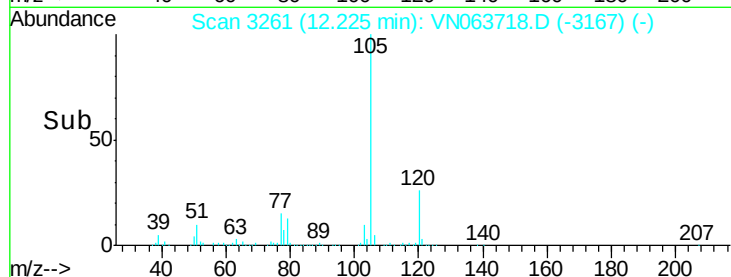
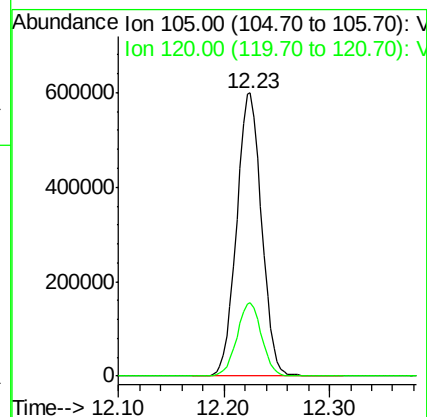
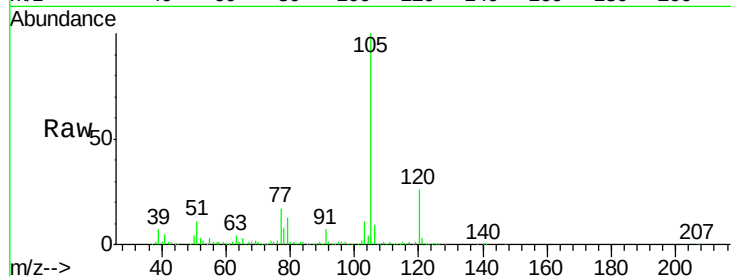
TP-6

Tot Ion:105 Resp: 977685

Ion Ratio Lower Upper

105 100

120 25.7 12.7 38.0



#78

n-propylbenzene

Concen: 127.631 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VN063718.D

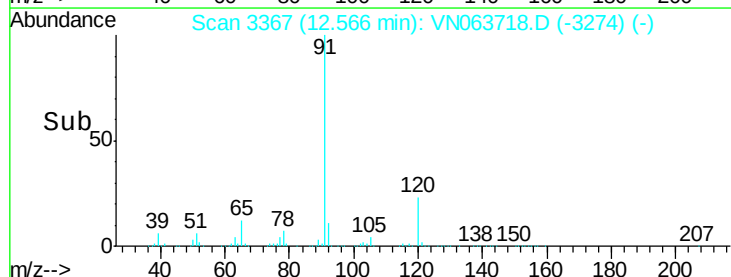
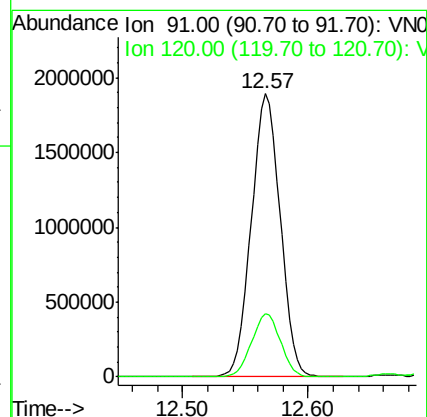
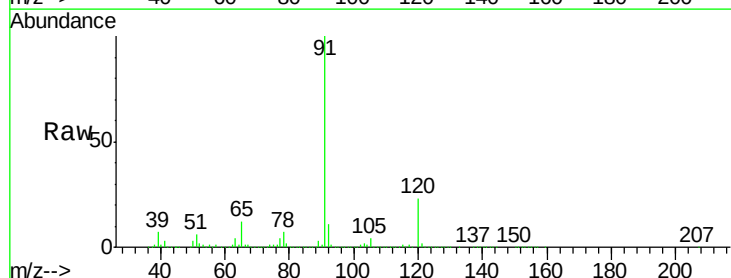
Acq: 28 Sep 2020 20:20

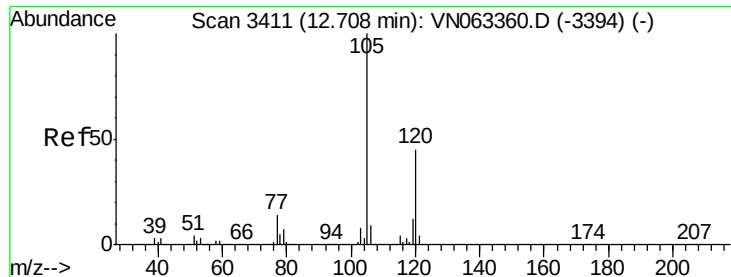
Tgt Ion: 91 Resp: 3031659

Ion Ratio Lower Upper

91 100

120 22.2 10.8 32.3

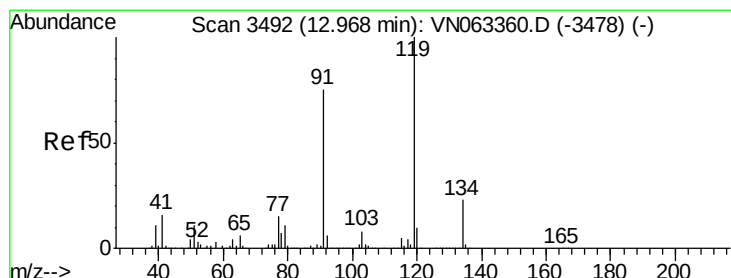
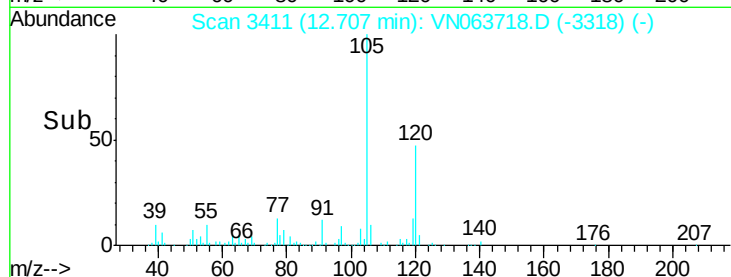
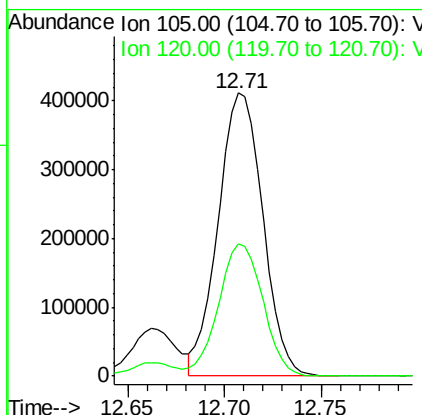
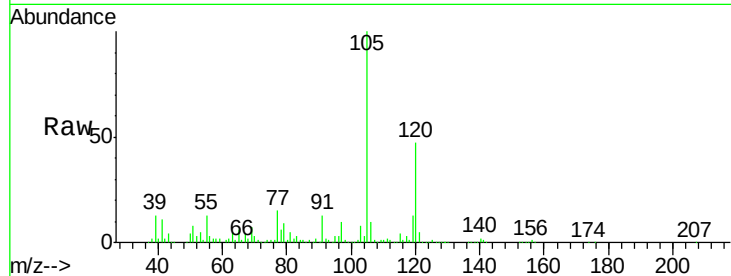




#80
 1,3,5-Trimethylbenzene
 Concen: 38.635 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063718.D
 Acq: 28 Sep 2020 20:20

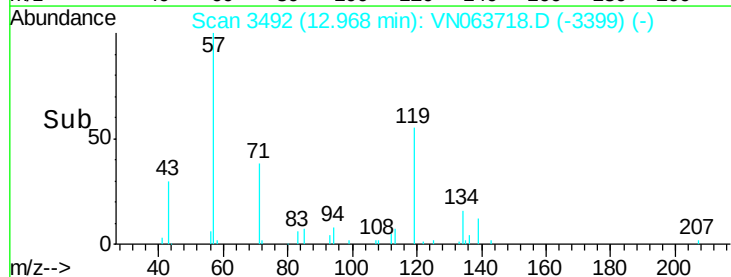
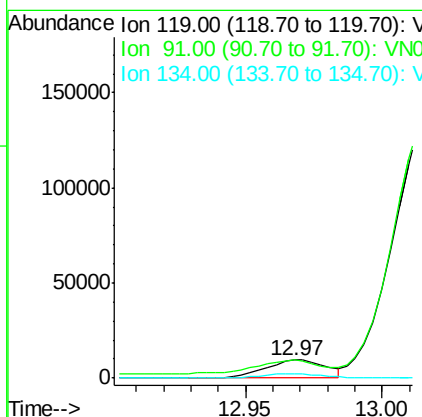
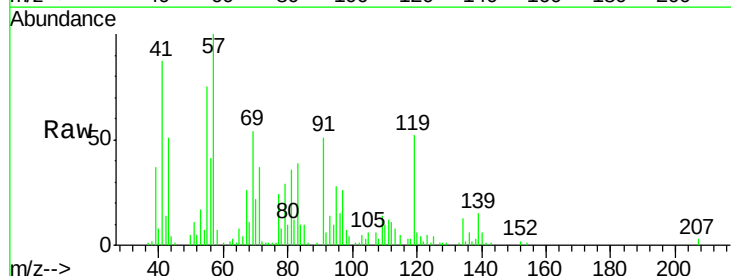
Instrument :
 MSVOA_N
 ClientSampled :
 TP-6

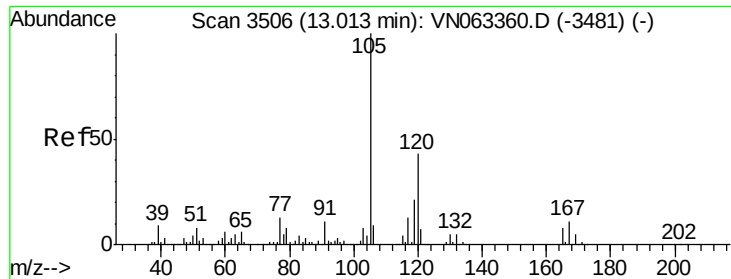
Tot Ion:105 Resp: 657029
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.9 68.8



#83
 tert-Butylbenzene
 Concen: 1.076 ug/l
 RT: 12.97 min Scan# 3492
 Delta R.T. -0.00 min
 Lab File: VN063718.D
 Acq: 28 Sep 2020 20:20

Tgt Ion:119 Resp: 15108
 Ion Ratio Lower Upper
 119 100
 91 86.0 36.3 108.9
 134 0.0 12.3 36.8#

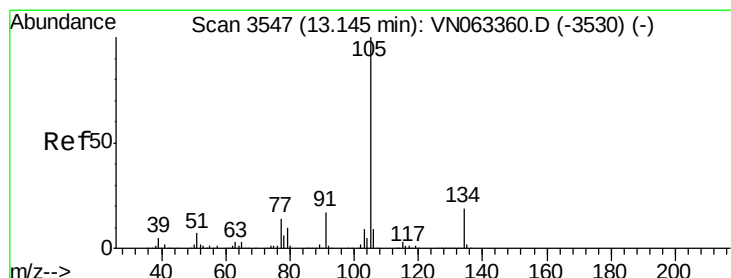
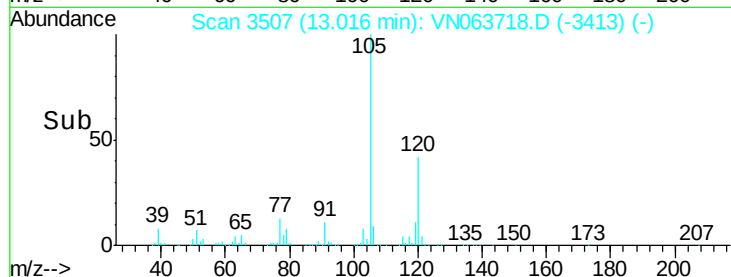
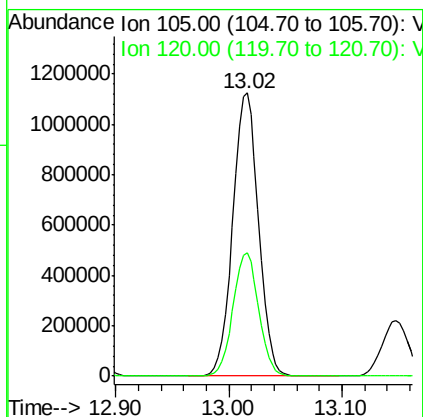
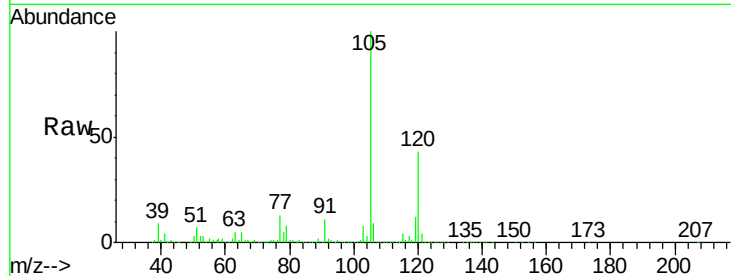




#84
 1,2,4-Trimethylbenzene
 Concen: 103.312 ug/l
 RT: 13.02 min Scan# 3507
 Delta R.T. 0.00 min
 Lab File: VN063718.D
 Acq: 28 Sep 2020 20:20

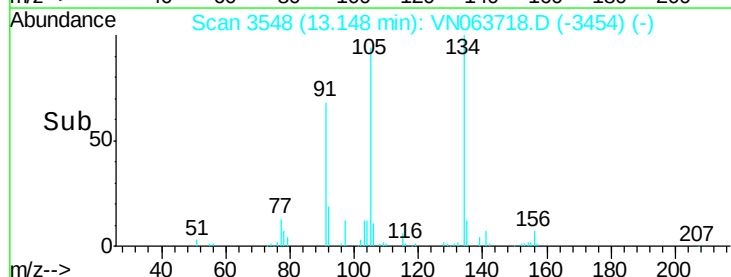
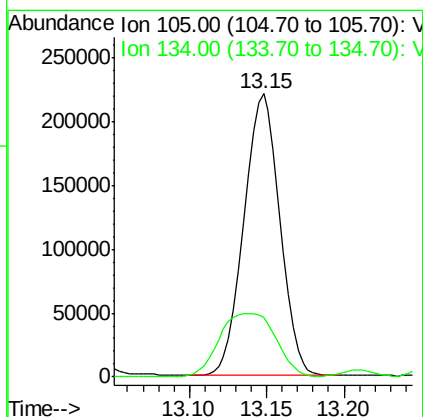
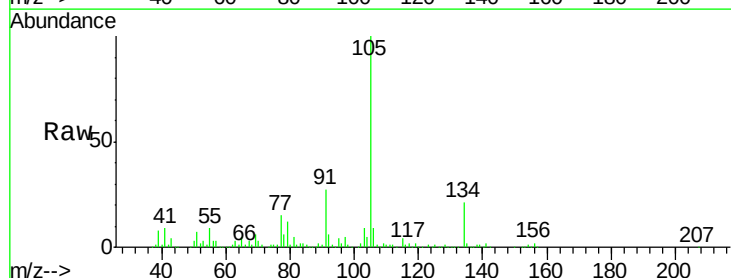
Instrument :
 MSVOA_N
 ClientSampled :
 TP-6

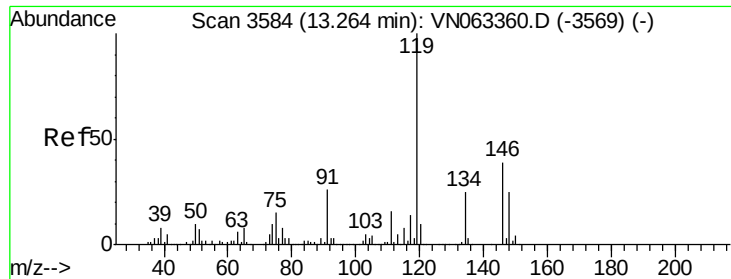
Tot Ion:105 Resp: 1774634
 Ion Ratio Lower Upper
 105 100
 120 43.4 21.3 63.9



#85
 sec-Butylbenzene
 Concen: 19.003 ug/l
 RT: 13.15 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VN063718.D
 Acq: 28 Sep 2020 20:20

Tgt Ion:105 Resp: 357017
 Ion Ratio Lower Upper
 105 100
 134 35.7 9.3 27.7#

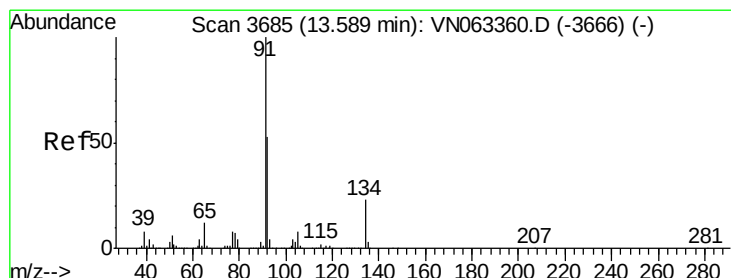
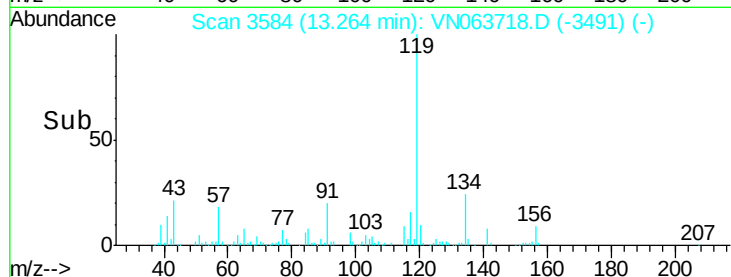
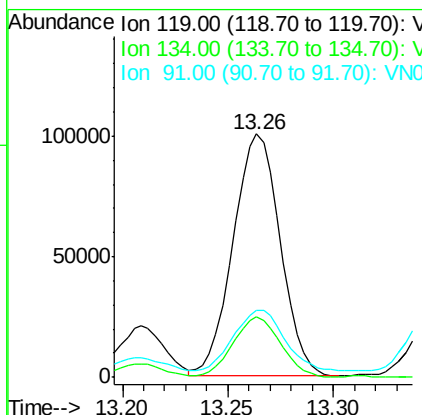
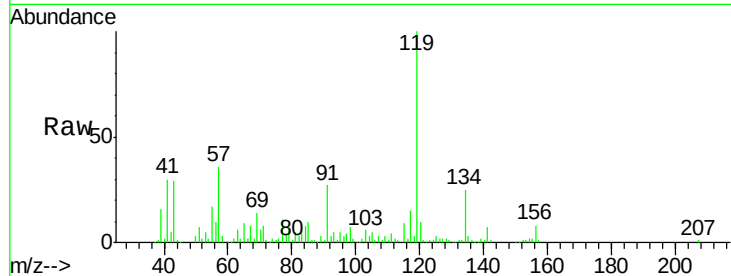




#86
p-Isopropyltoluene
Concen: 9.435 ug/l
RT: 13.26 min Scan# 3584
Delta R.T. -0.00 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

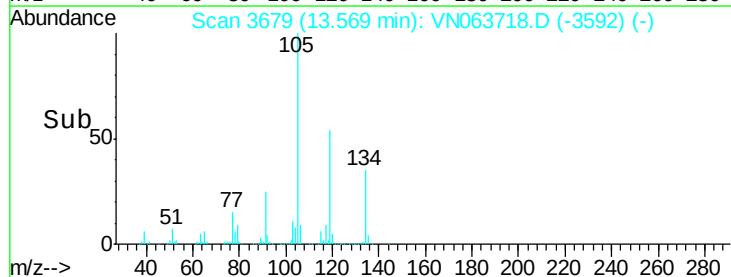
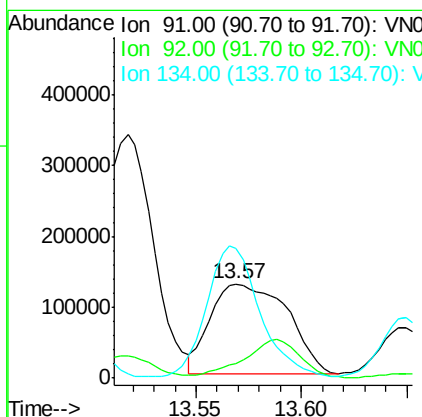
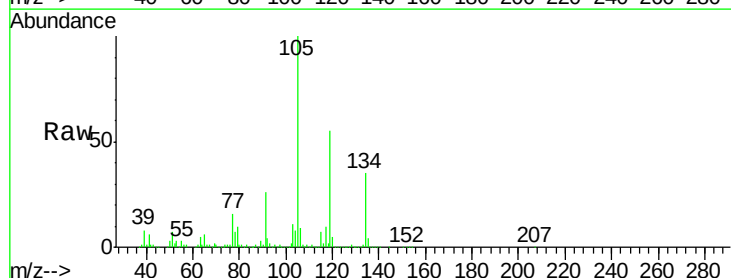
Instrument :
MSVOA_N
ClientSampled :
TP-6

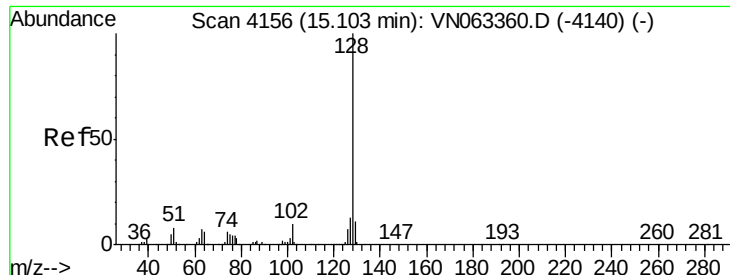
Tot Ion:119 Resp: 156343
Ion Ratio Lower Upper
119 100
134 24.6 12.5 37.5
91 27.0 13.4 40.1



#89
n-Butylbenzene
Concen: 20.912 ug/l
RT: 13.57 min Scan# 3679
Delta R.T. -0.02 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

Tgt Ion: 91 Resp: 319423
Ion Ratio Lower Upper
91 100
92 0.0 26.0 78.0#
134 100.7 11.7 35.0#

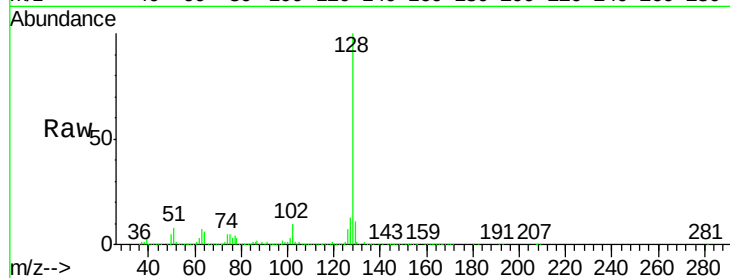




#95
Naphthalene
Concen: 193.234 ug/l
RT: 15.10 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN063718.D
Acq: 28 Sep 2020 20:20

Instrument :
MSVOA_N
ClientSampleId :
TP-6

Tot Ion:128 Resp: 3141819
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 10.9 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

