

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060120\
 Data File : VN061604.D
 Acq On : 1 Jun 2020 18:53
 Operator : JC/MD
 Sample : L2822-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 C0AP7

Quant Time: Jun 02 05:08:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	301799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	543084	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	586787	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	334341	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	182851	50.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.70%	
35) Dibromofluoromethane	7.55	113	142251	51.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.26%	
50) Toluene-d8	10.06	98	679216	53.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.40%	
62) 4-Bromofluorobenzene	12.37	95	316164	67.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	135.76%	

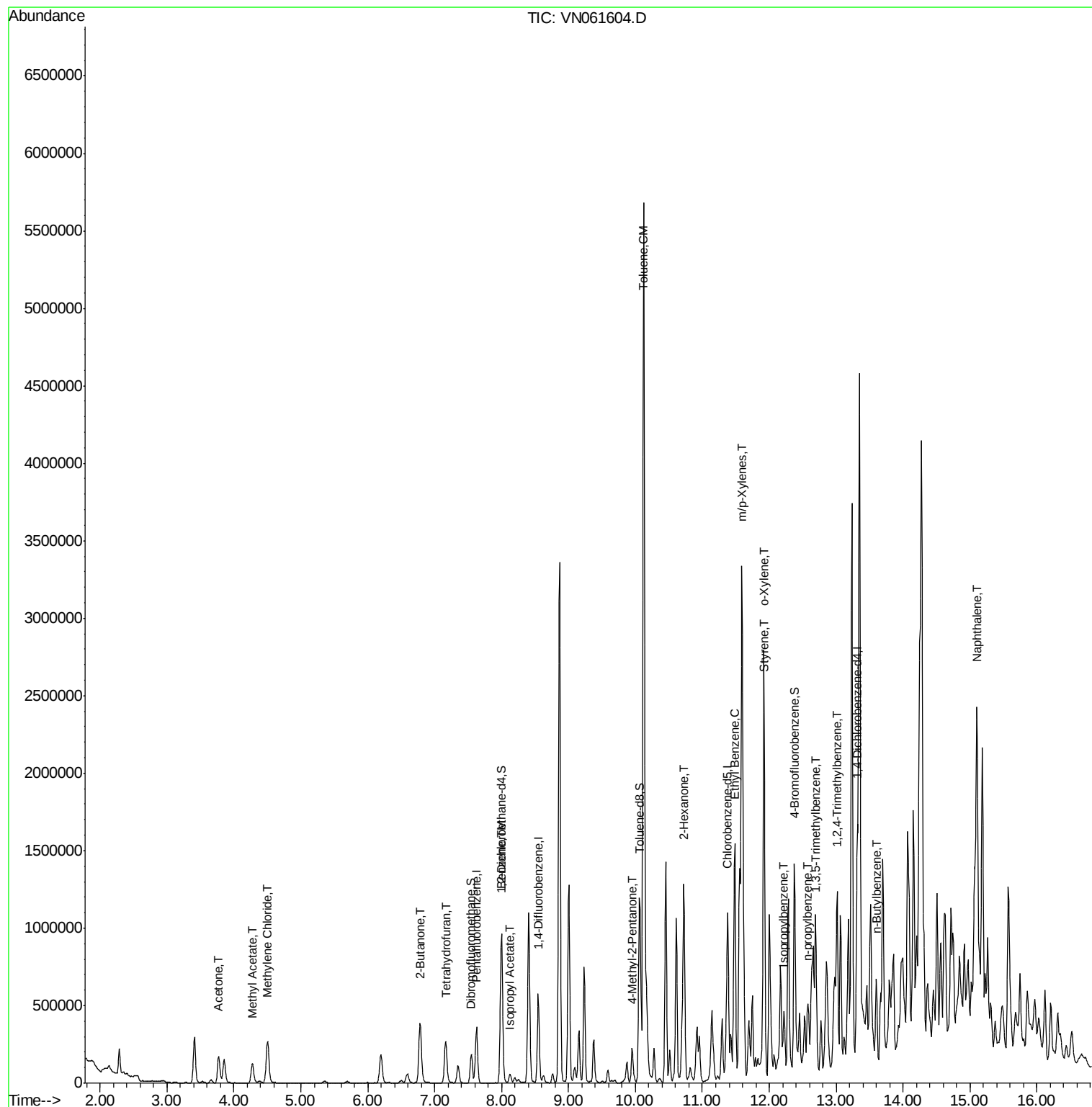
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	282454	285.915	ug/l	99
18) Methyl Acetate	4.27	43	229247	70.427	ug/l	100
20) Methylene Chloride	4.50	84	219243	67.699	ug/l	96
25) 2-Butanone	6.78	43	669753	393.018	ug/l	98
29) Tetrahydrofuran	7.17	42	210135	186.998	ug/l	99
40) Benzene	8.00	78	936154	63.109	ug/l	100
43) Isopropyl Acetate	8.13	43	53525	7.683	ug/l #	90
51) 4-Methyl-2-Pentanone	9.95	43	132644	33.787	ug/l	100
52) Toluene	10.12	92	2817272	290.982	ug/l	89
59) 2-Hexanone	10.72	43	781241	277.087	ug/l	90
67) Ethyl Benzene	11.48	91	1016524	48.219	ug/l	99
68) m/p-Xylenes	11.59	106	985925	117.949	ug/l	99
69) o-Xylene	11.92	106	634040	79.861	ug/l	100
70) Styrene	11.94	104	143672	10.928	ug/l #	37
73) Isopropylbenzene	12.22	105	41500	1.701	ug/l	99
78) n-propylbenzene	12.56	91	133875	4.914	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	138116	6.772	ug/l	98
84) 1,2,4-Trimethylbenzene	13.01	105	532965	26.304	ug/l	99
89) n-Butylbenzene	13.59	91	27254	1.522	ug/l #	77
95) Naphthalene	15.10	128	1005144	53.567	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# 1820

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

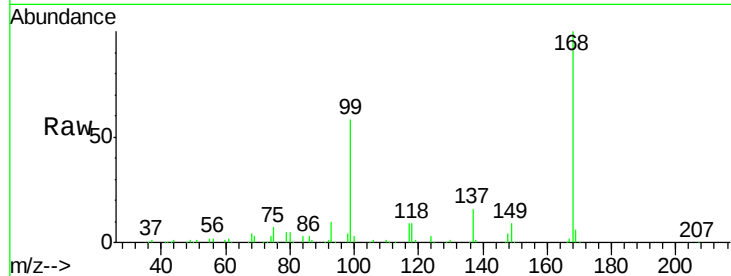
C0AP7

Tot Ion:168 Resp: 301799

Ion Ratio Lower Upper

168 100

99 57.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

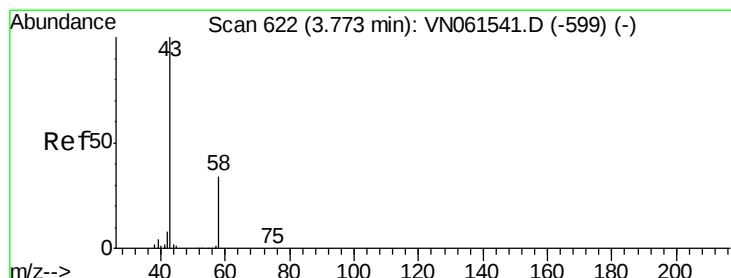
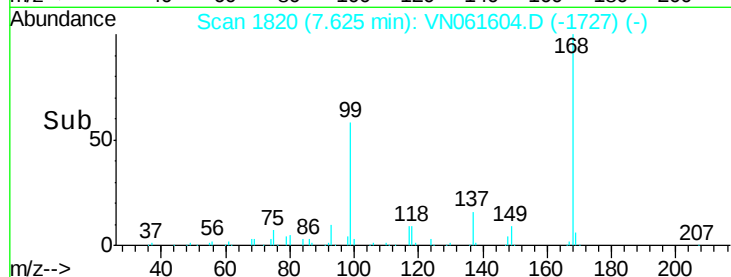
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 285.915 ug/l

RT: 3.77 min Scan# 622

Delta R.T. 0.00 min

Lab File: VN061604.D

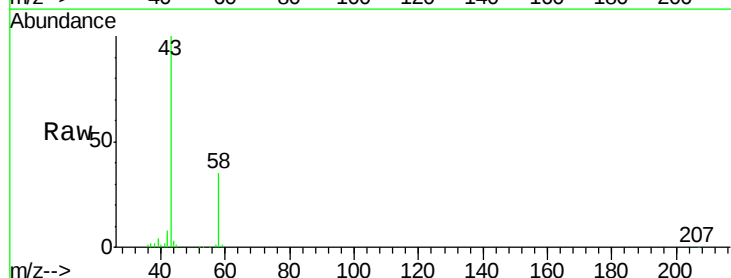
Acq: 1 Jun 2020 18:53

Tgt Ion: 43 Resp: 282454

Ion Ratio Lower Upper

43 100

58 34.8 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.77

120000

100000

80000

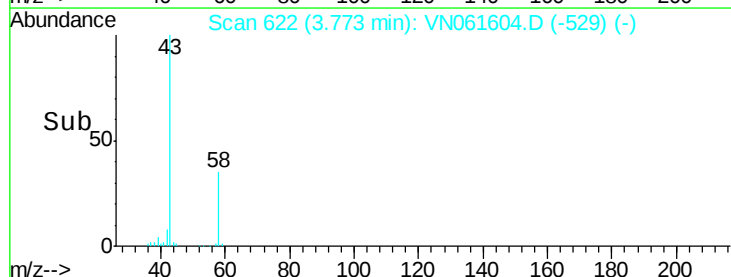
60000

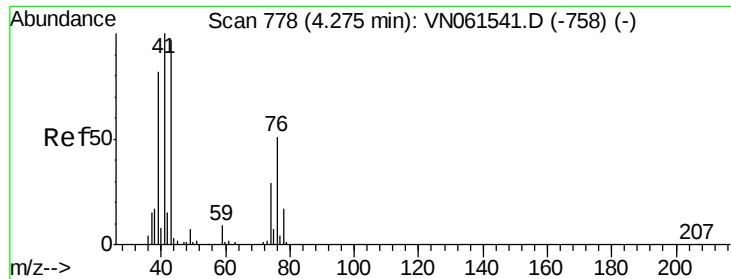
40000

20000

0

Time--> 3.70 3.80 3.90

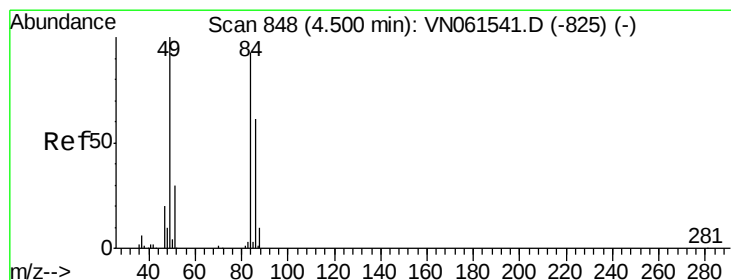
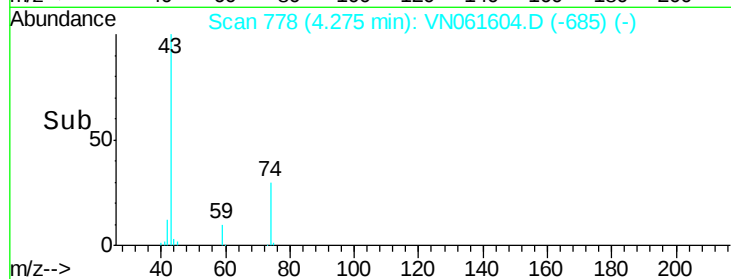
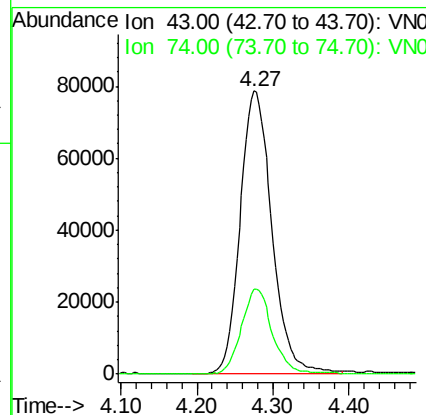
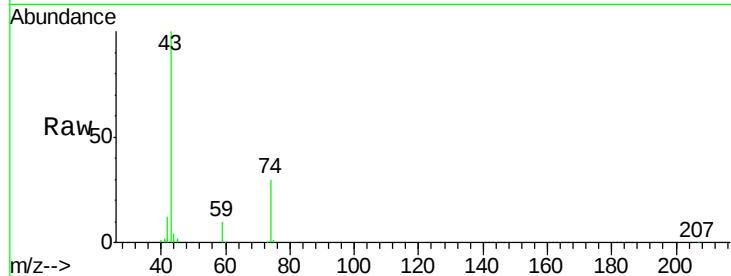




#18
Methvl Acetate
Concen: 70.427 ug/l
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

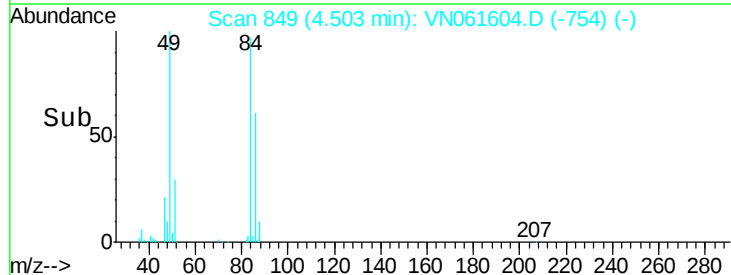
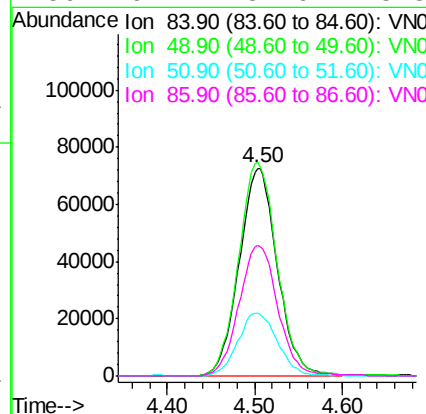
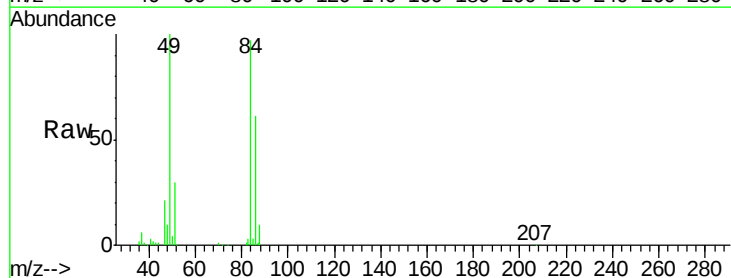
Instrument :
MSVOA_N
ClientSampleId :
C0AP7

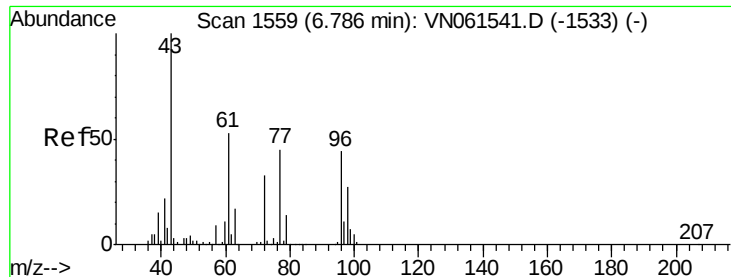
Tot Ion: 43 Resp: 229247
Ion Ratio Lower Upper
43 100
74 29.0 23.2 34.8



#20
Methylene Chloride
Concen: 67.699 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 84 Resp: 219243
Ion Ratio Lower Upper
84 100
49 102.7 85.8 128.8
51 30.4 26.2 39.2
86 62.7 52.6 78.8





#25

2-Butanone

Concen: 393.018 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

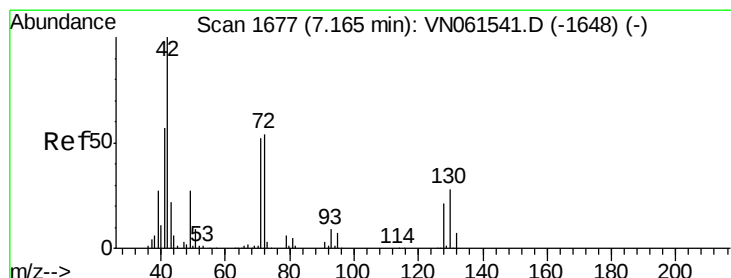
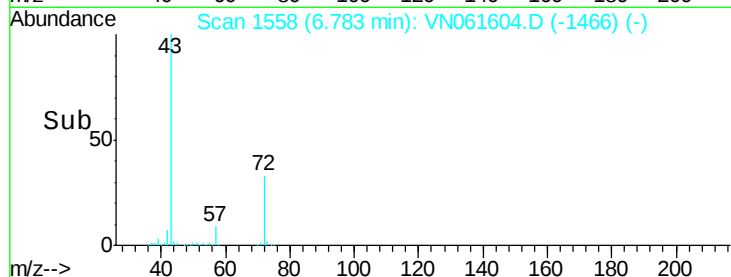
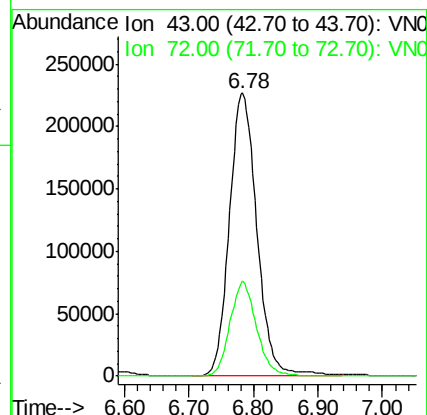
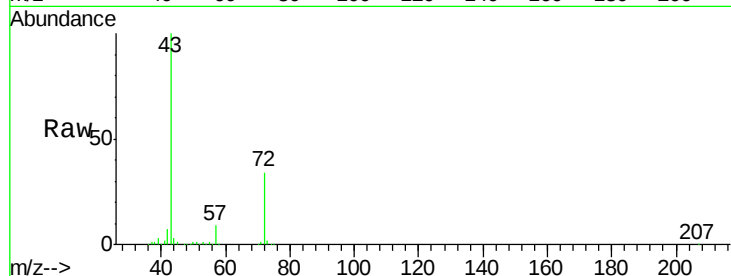
C0AP7

Tot Ion: 43 Resp: 669753

Ion Ratio Lower Upper

43 100

72 33.6 26.0 39.0



#29

Tetrahydrofuran

Concen: 186.998 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

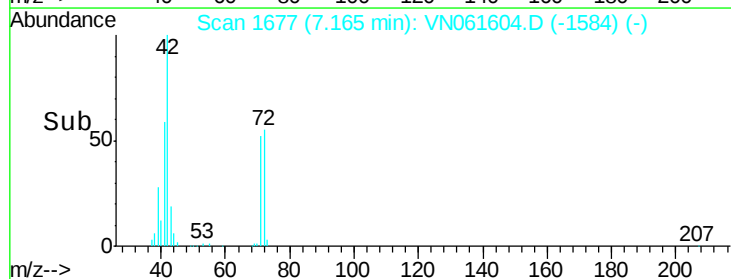
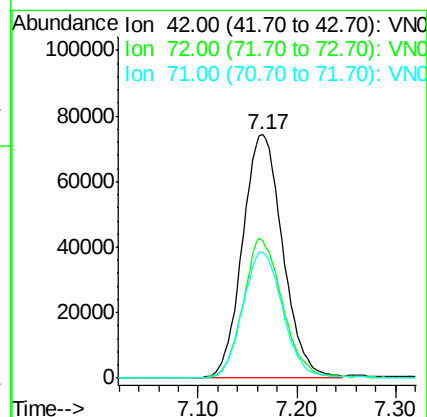
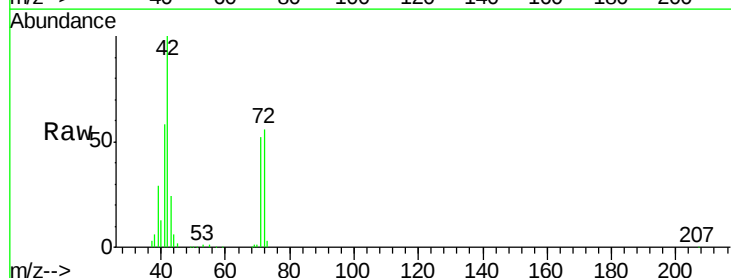
Tgt Ion: 42 Resp: 210135

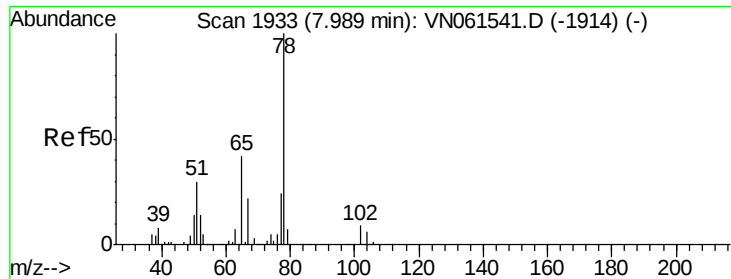
Ion Ratio Lower Upper

42 100

72 56.2 43.6 65.4

71 51.5 41.2 61.8

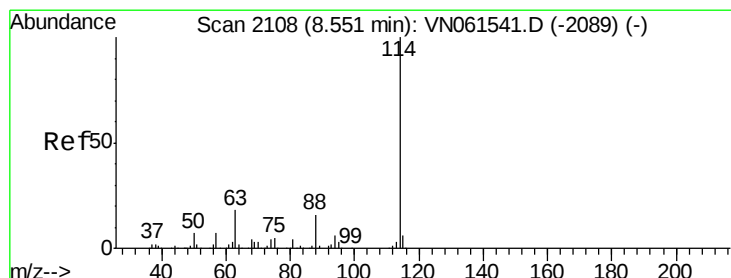
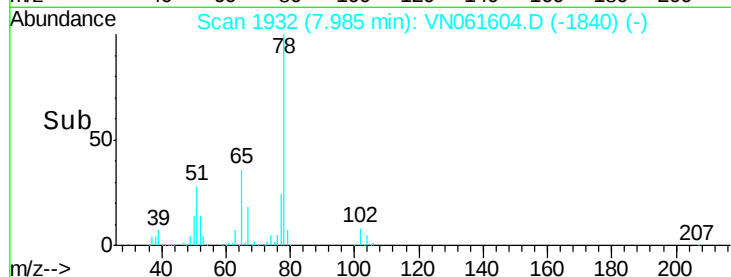
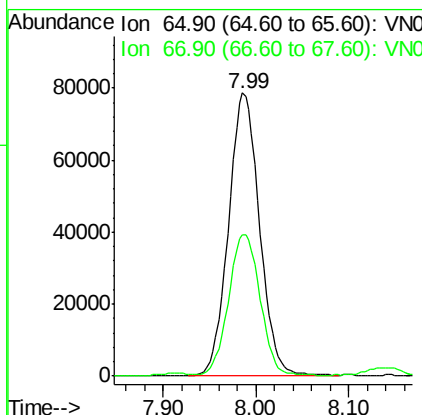
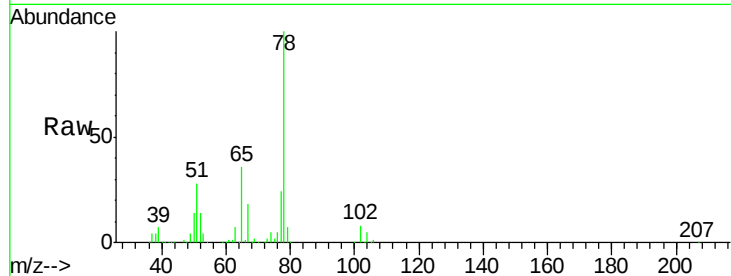




#33
 1,2-Dichloroethane-d4
 Concen: 50.852 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061604.D
 Acq: 1 Jun 2020 18:53

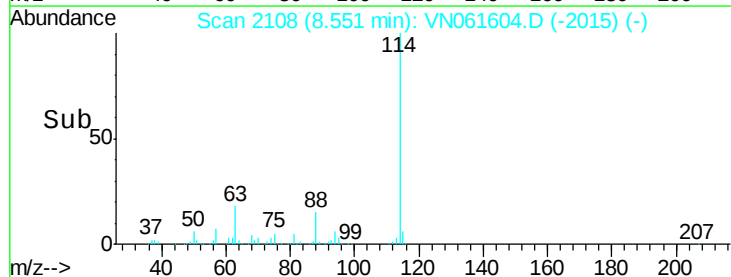
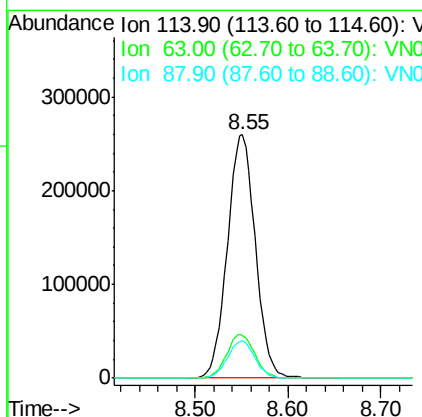
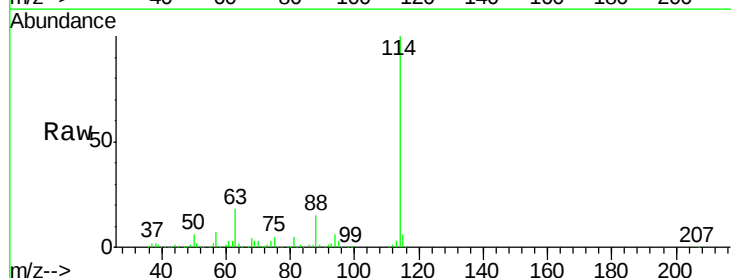
Instrument :
 MSVOA_N
 ClientSampleId :
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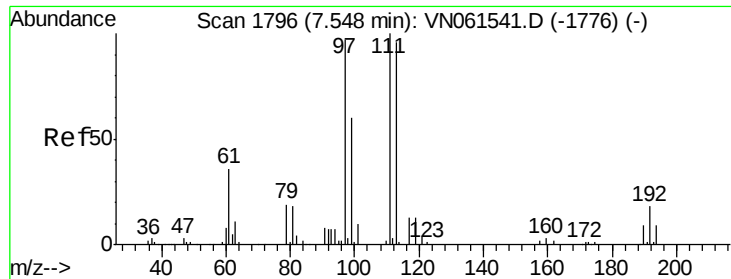
Tot Ion: 65 Resp: 182851
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061604.D
 Acq: 1 Jun 2020 18:53

Tgt Ion: 114 Resp: 543084
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 35.8
 88 15.2 0.0 31.0

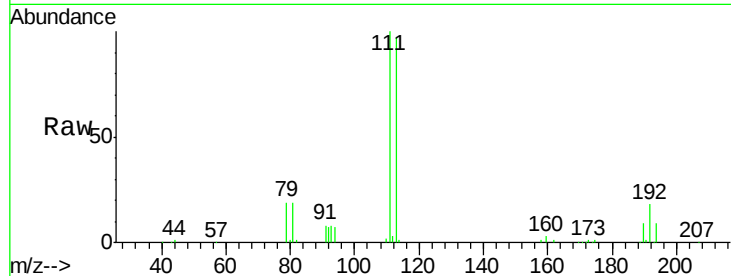




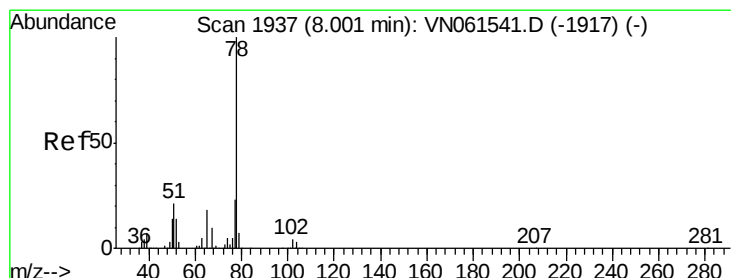
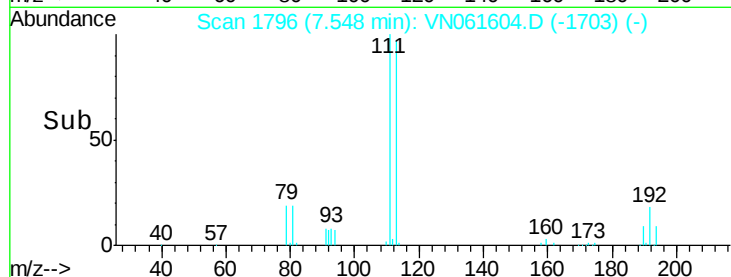
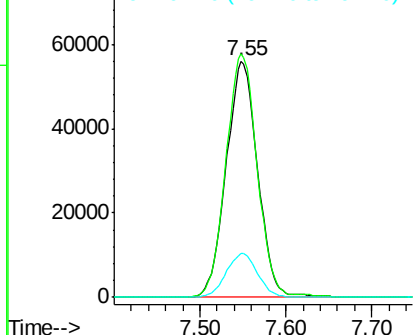
#35
Dibromofluoromethane
Concen: 51.634 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Instrument :
MSVOA_N
ClientSampleId :
C0AP7

Tot Ion:113 Resp: 142251
Ion Ratio Lower Upper
113 100
111 101.7 83.4 125.0
192 18.5 15.4 23.2

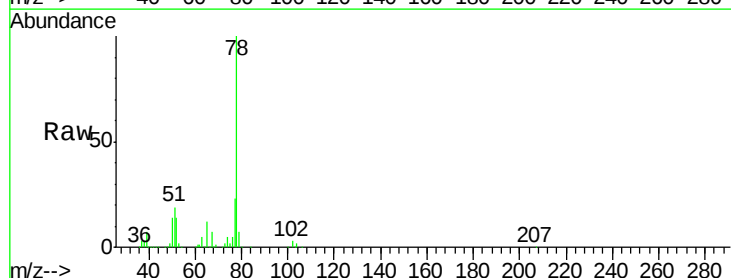


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

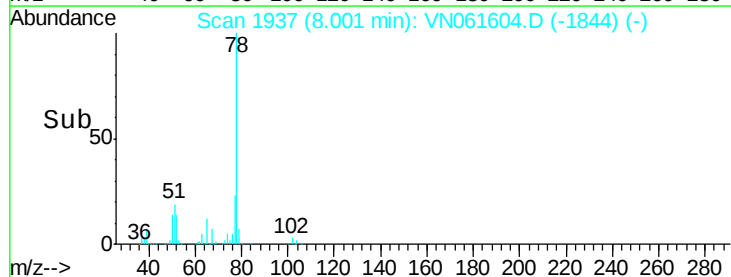
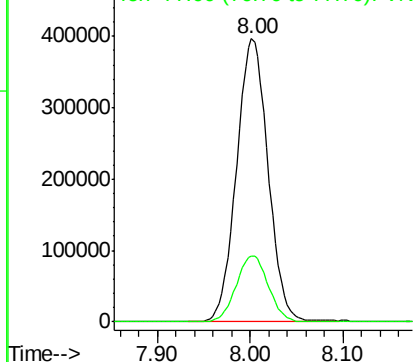


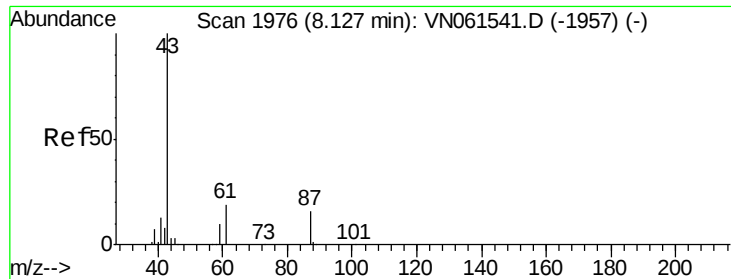
#40
Benzene
Concen: 63.109 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 78 Resp: 936154
Ion Ratio Lower Upper
78 100
77 23.4 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): V
Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 7.683 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

C0AP7

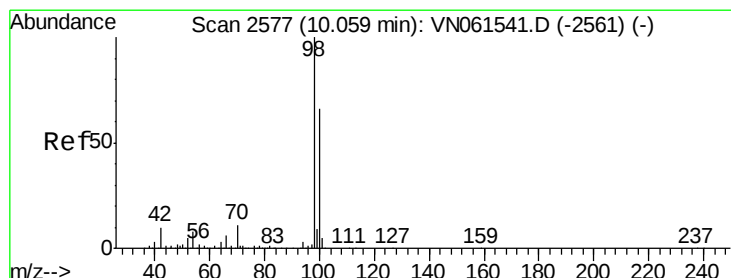
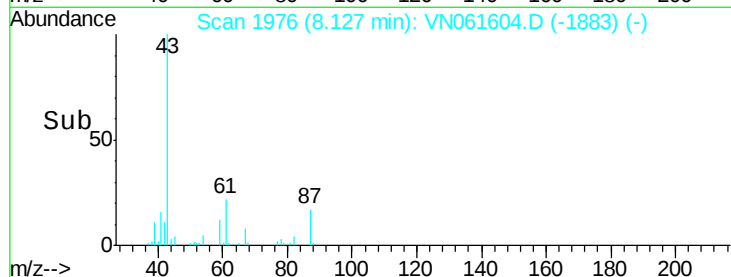
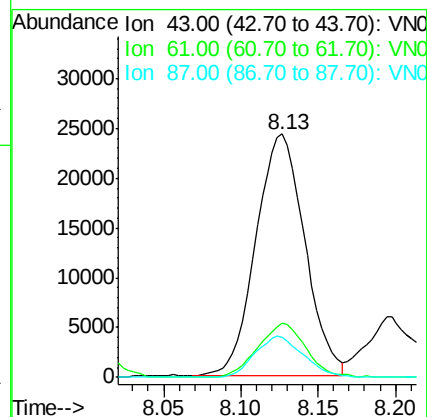
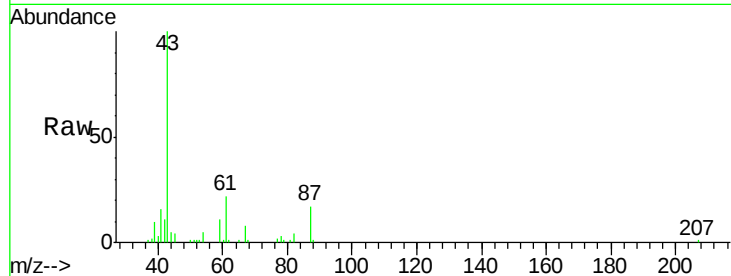
Tot Ion: 43 Resp: 53525

Ion Ratio Lower Upper

43 100

61 21.7 23.6 35.4#

87 16.7 13.0 19.6



#50

Toluene-d8

Concen: 53.201 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061604.D

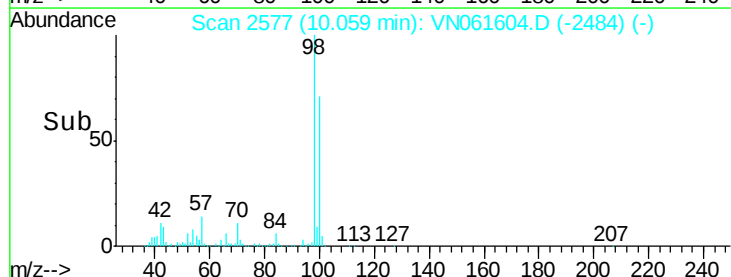
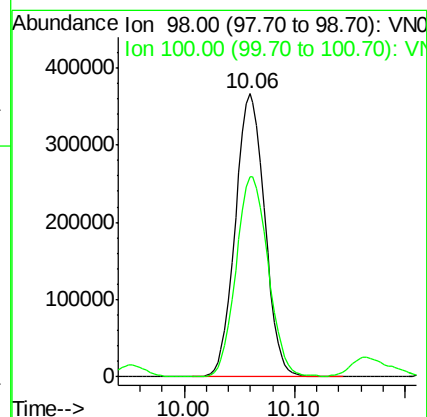
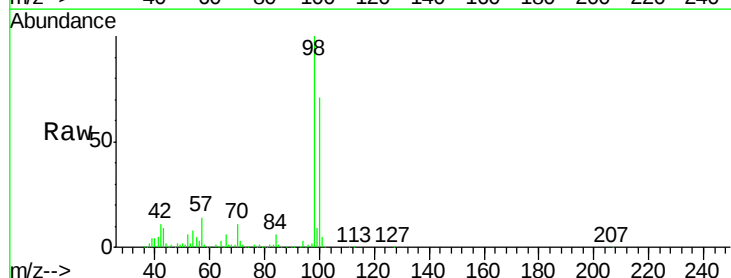
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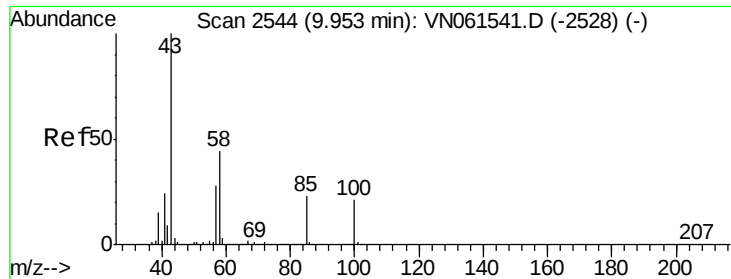
Tgt Ion: 98 Resp: 679216

Ion Ratio Lower Upper

98 100

100 77.3 52.8 79.2

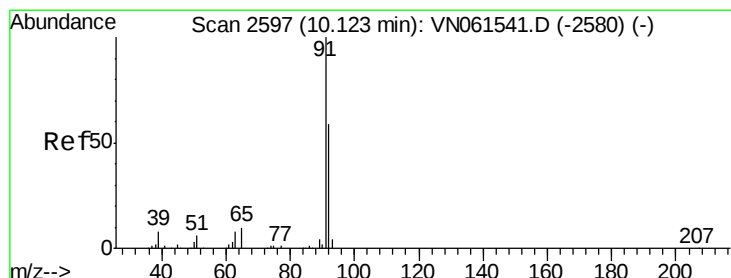
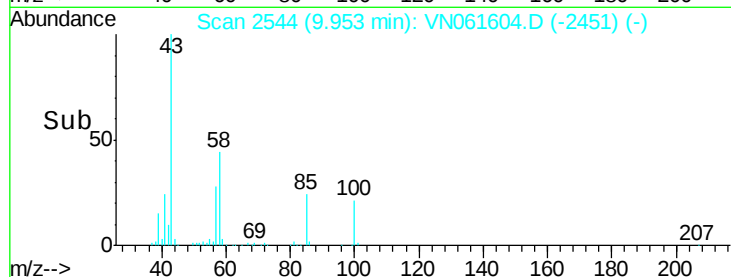
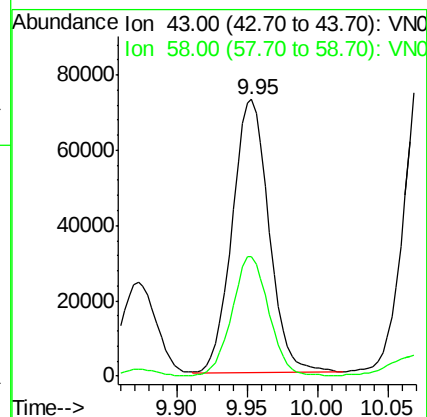
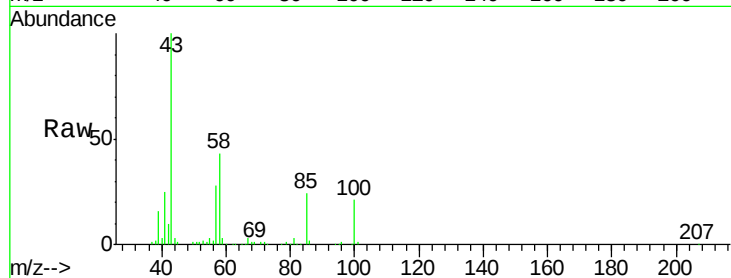




#51
4-Methyl-2-Pentanone
Concen: 33.787 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

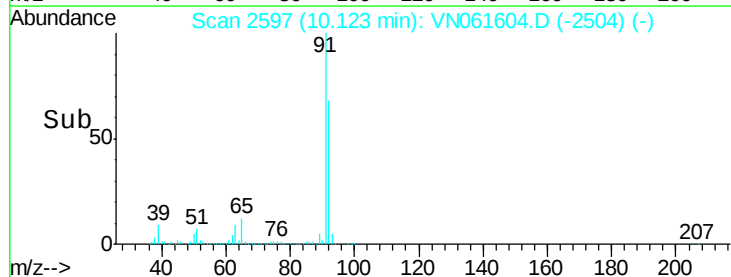
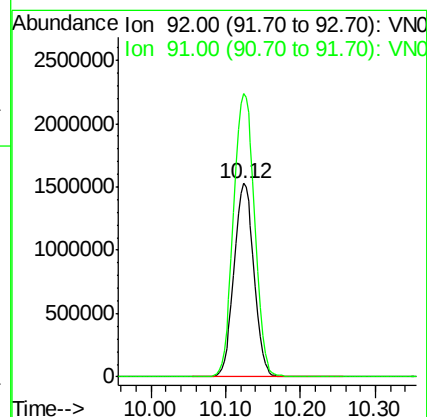
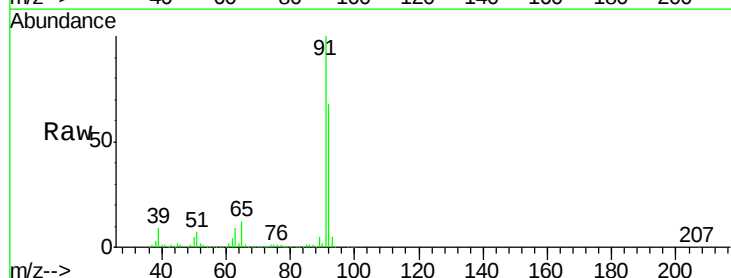
Instrument :
MSVOA_N
ClientSampled :
C0AP7

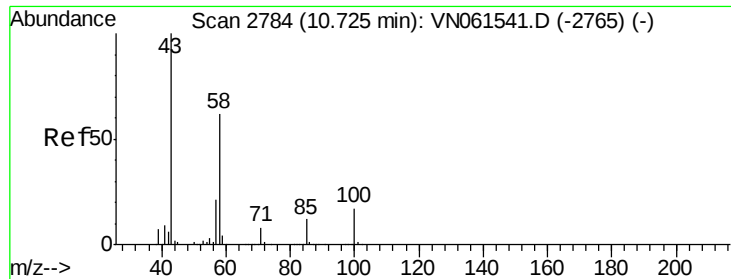
Tot Ion: 43 Resp: 132644
Ion Ratio Lower Upper
43 100
58 43.7 35.0 52.6



#52
Toluene
Concen: 290.982 ug/l
RT: 10.12 min Scan# 2597
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 92 Resp: 2817272
Ion Ratio Lower Upper
92 100
91 155.8 136.4 204.6

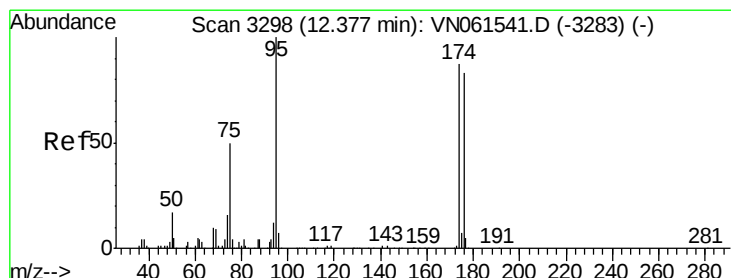
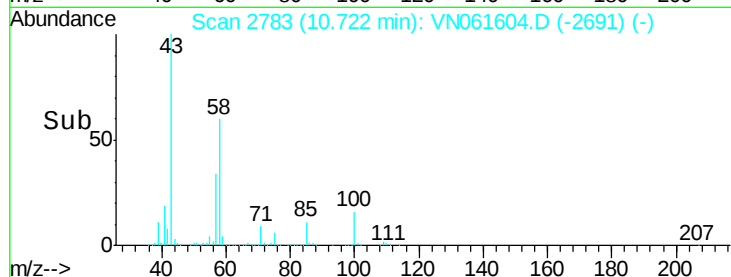
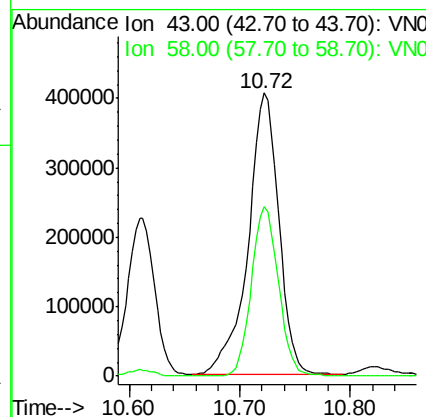
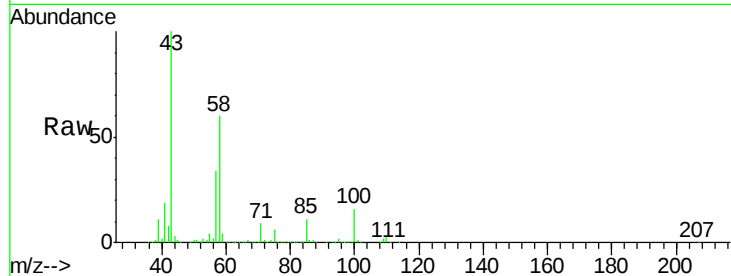




#59
2-Hexanone
Concen: 277.087 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

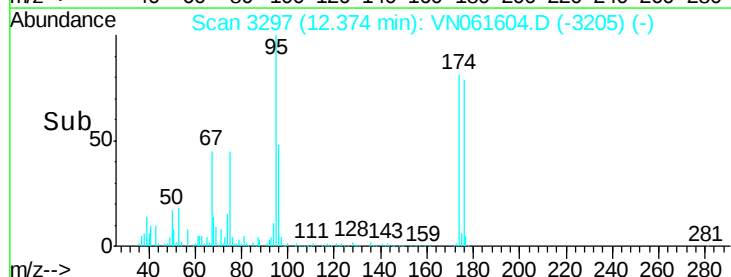
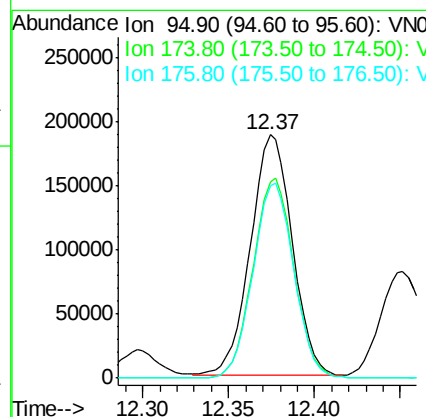
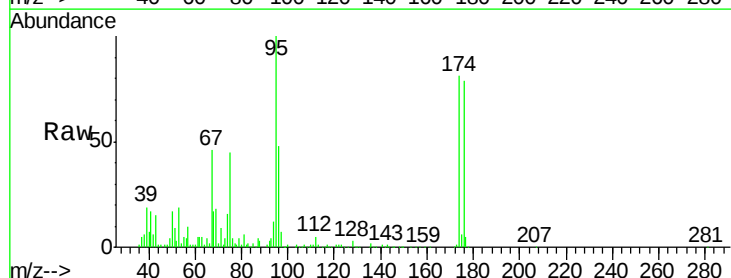
Instrument :
MSVOA_N
ClientSampled :
C0AP7

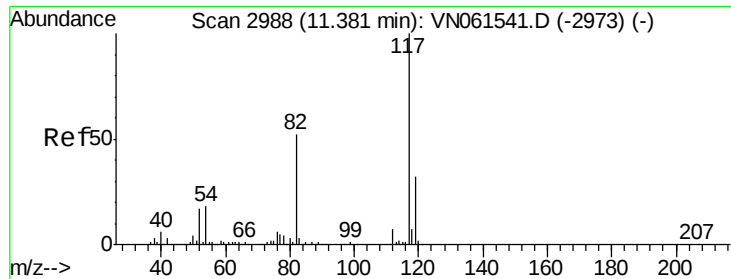
Tot Ion: 43 Resp: 781241
Ion Ratio Lower Upper
43 100
58 53.4 30.7 92.1



#62
4-Bromofluorobenzene
Concen: 67.878 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 95 Resp: 316164
Ion Ratio Lower Upper
95 100
174 81.8 0.0 172.8
176 79.4 0.0 164.8

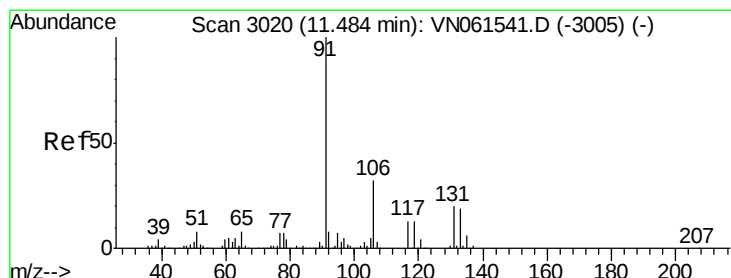
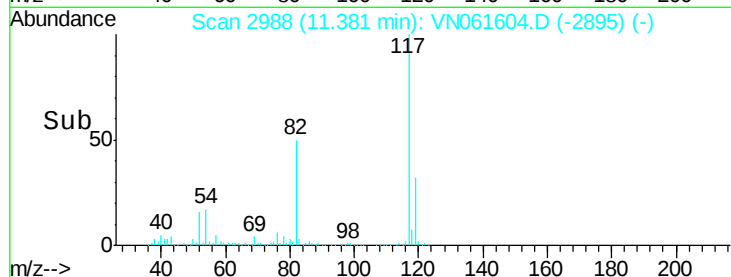
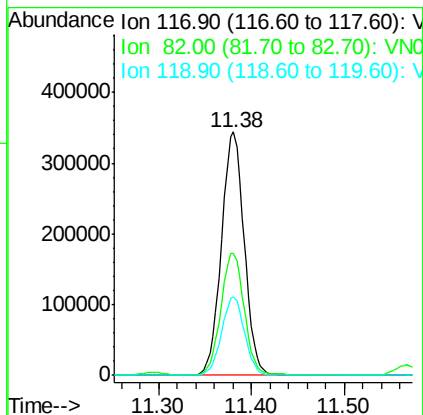
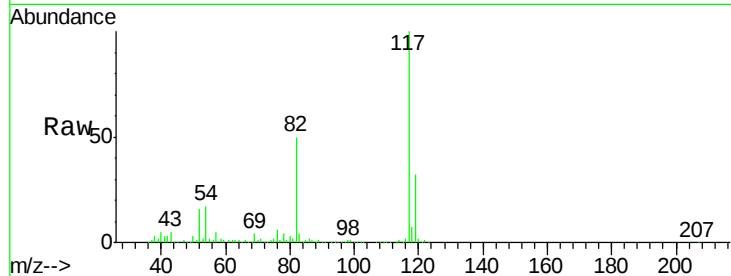




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

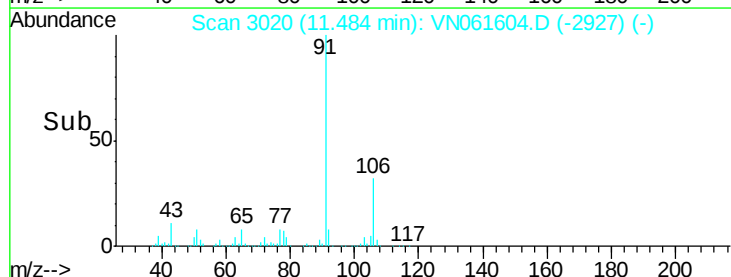
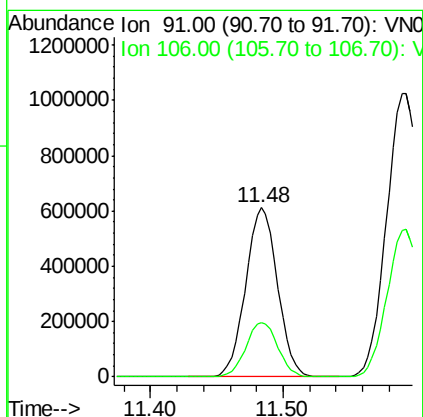
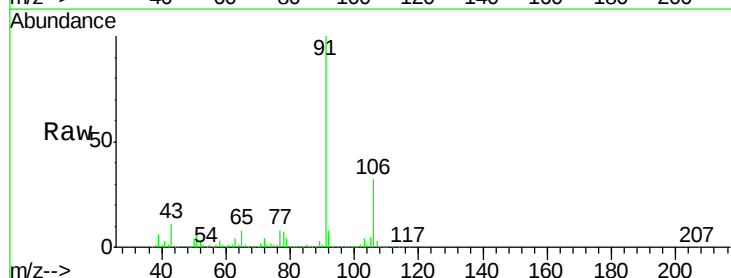
Instrument :
MSVOA_N
ClientSampleId :
C0AP7

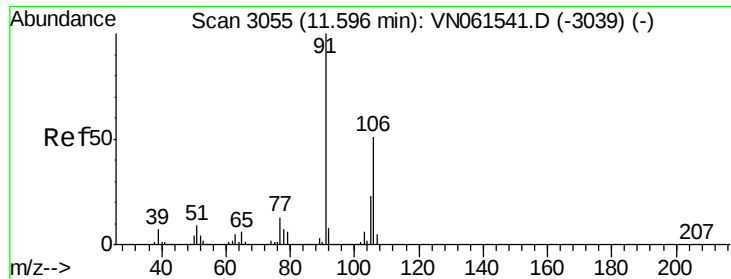
Tot Ion:117 Resp: 586787
Ion Ratio Lower Upper
117 100
82 50.2 41.5 62.3
119 32.3 25.6 38.4



#67
Ethyl Benzene
Concen: 48.219 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 91 Resp: 1016524
Ion Ratio Lower Upper
91 100
106 32.5 25.6 38.4

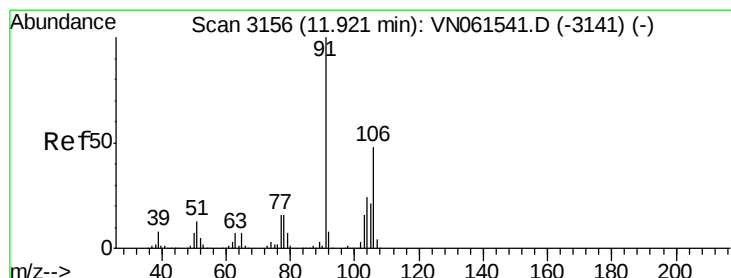
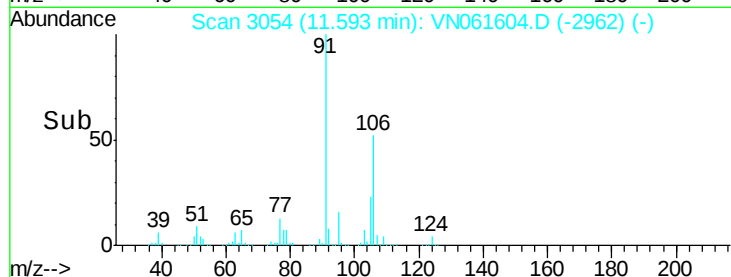
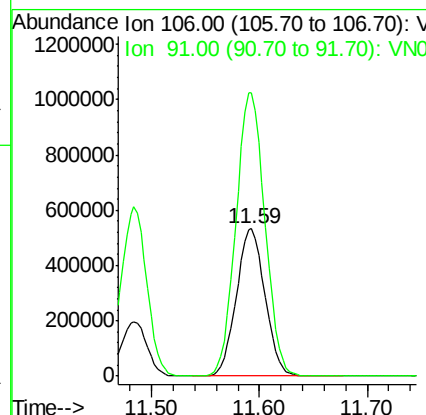
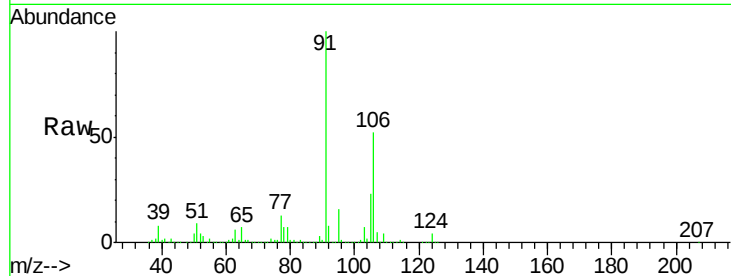




#68
m/p-Xylenes
Concen: 117.949 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

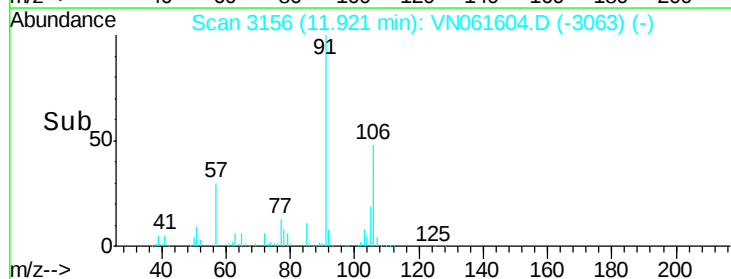
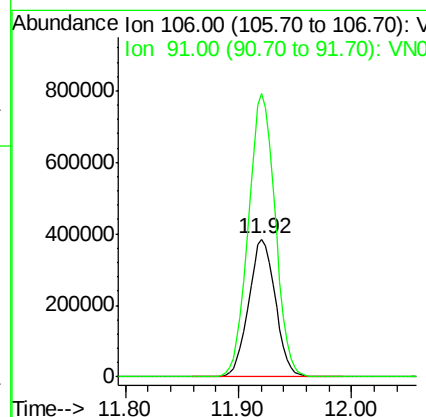
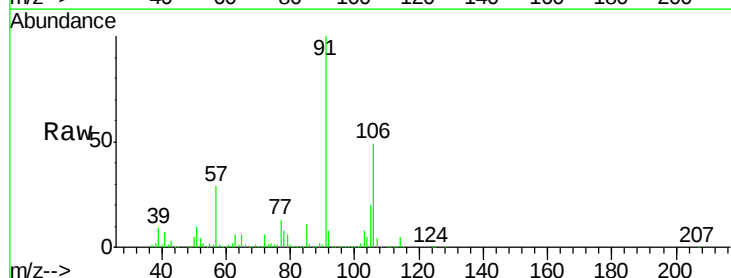
Instrument :
MSVOA_N
ClientSampled :
C0AP7

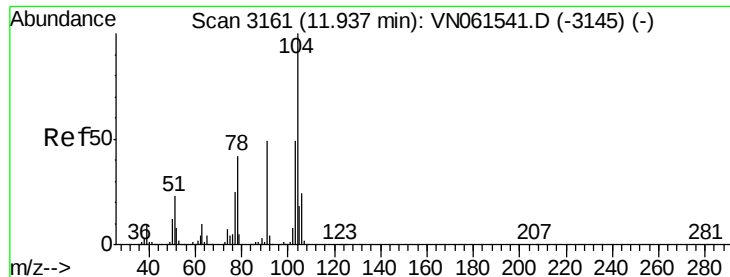
Tot Ion:106 Resp: 985925
Ion Ratio Lower Upper
106 100
91 194.2 156.2 234.4



#69
o-Xylene
Concen: 79.861 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion:106 Resp: 634040
Ion Ratio Lower Upper
106 100
91 205.7 103.3 309.8





#70

Stvrene

Concen: 10.928 ug/l

RT: 11.94 min Scan# 3161

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

Instrument :

MSVOA_N

ClientSampleId :

C0AP7

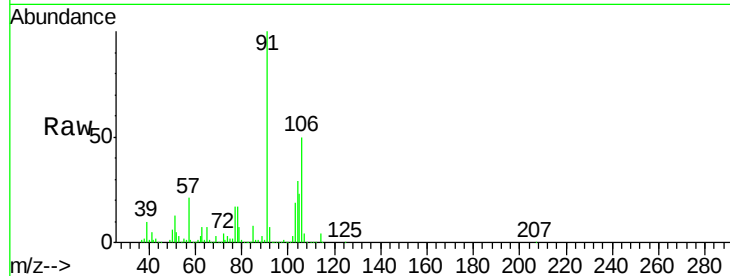
Tot Ion:104 Resp: 143672

Ion Ratio Lower Upper

104 100

78 91.2 37.4 56.0#

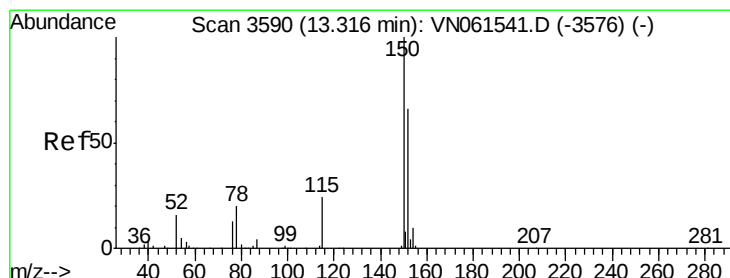
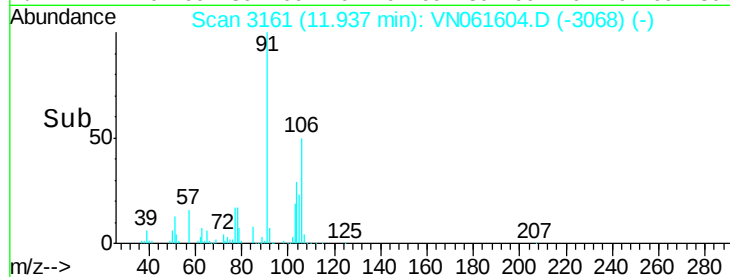
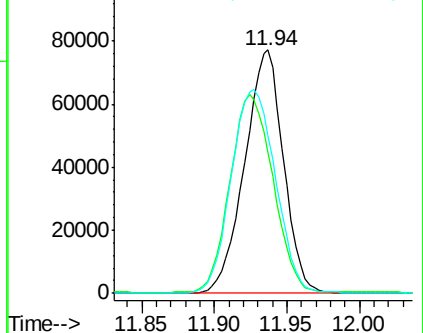
103 95.6 42.3 63.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

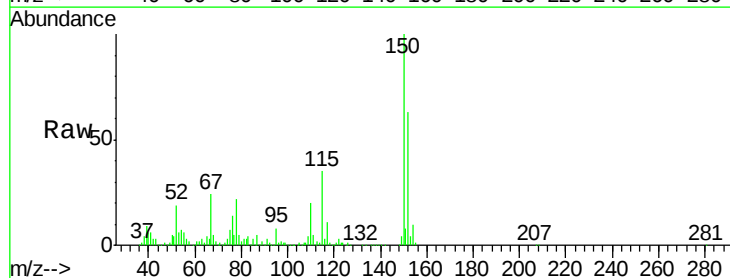
Tgt Ion:152 Resp: 334341

Ion Ratio Lower Upper

152 100

115 58.1 28.0 84.0

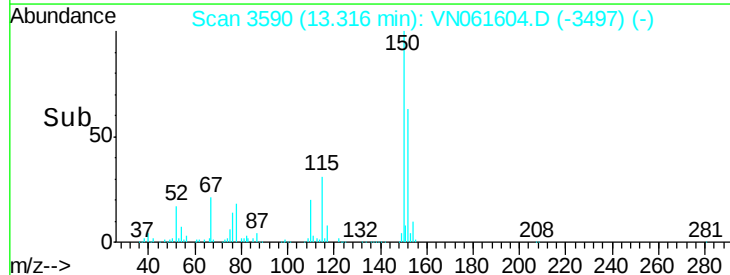
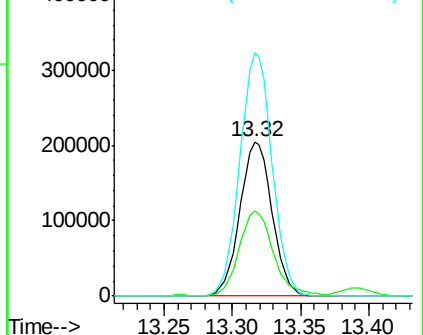
150 158.7 0.0 344.0

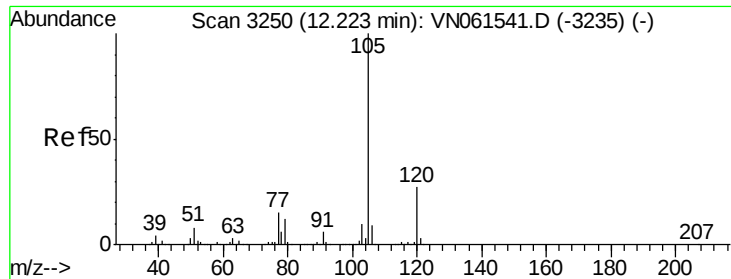


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.701 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. -0.00 min

Lab File: VN061604.D

Acq: 1 Jun 2020 18:53

Instrument :

MSVOA_N

ClientSampled :

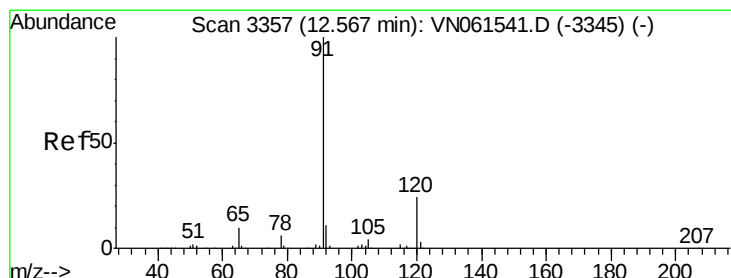
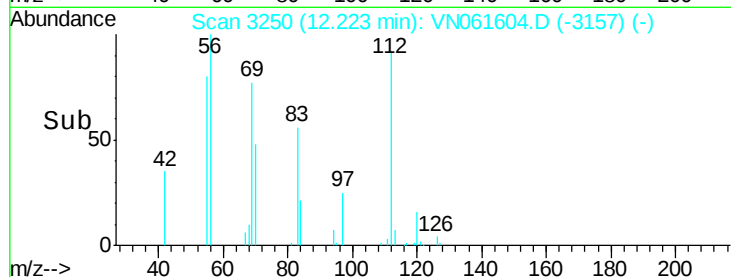
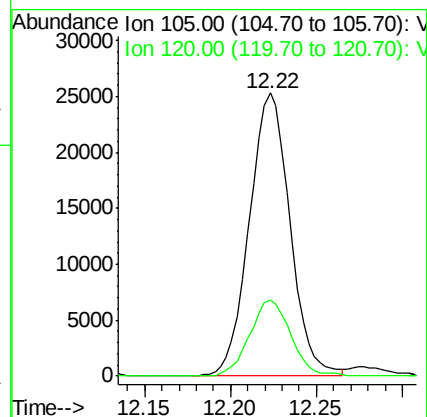
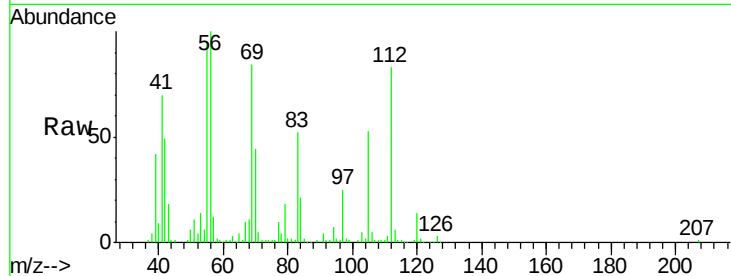
C0AP7

Tot Ion:105 Resp: 41500

Ion Ratio Lower Upper

105 100

120 27.1 13.8 41.3



#78

n-propylbenzene

Concen: 4.914 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. -0.00 min

Lab File: VN061604.D

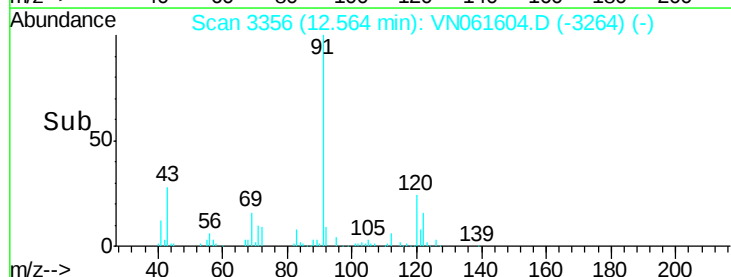
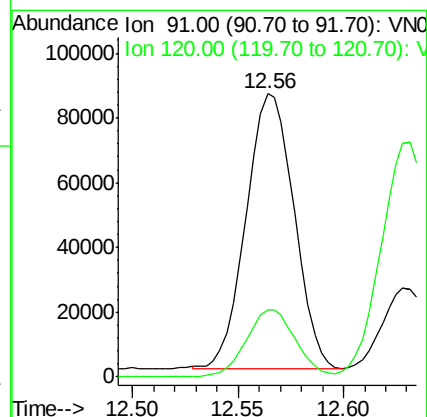
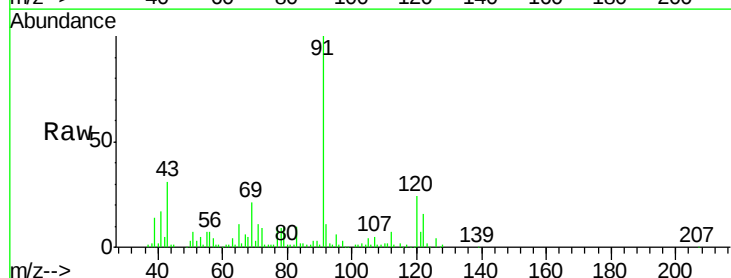
Acq: 1 Jun 2020 18:53

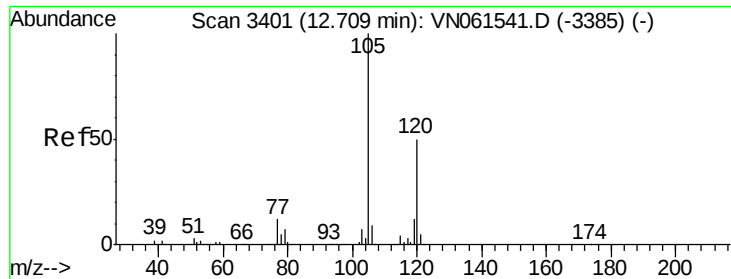
Tgt Ion: 91 Resp: 133875

Ion Ratio Lower Upper

91 100

120 25.4 12.3 36.9

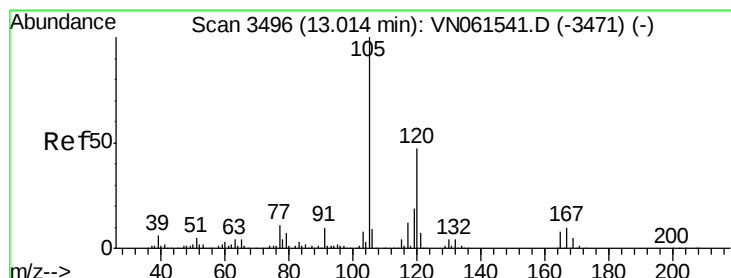
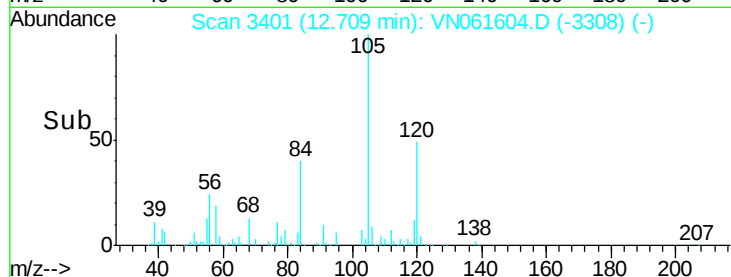
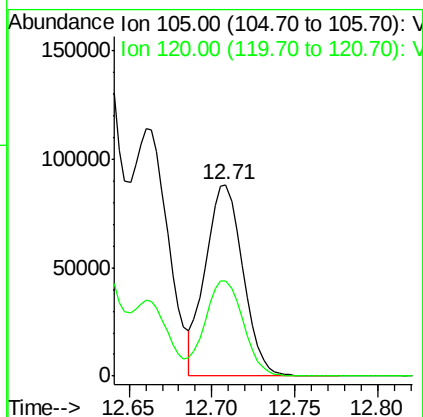
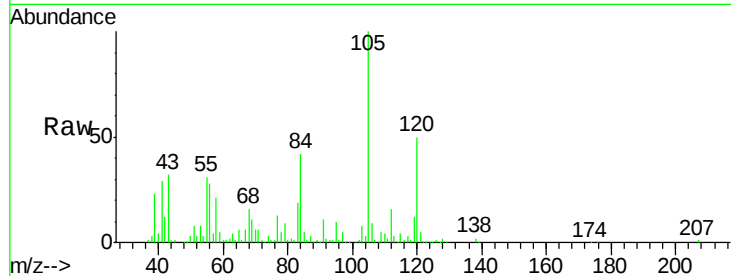




#80
 1,3,5-Trimethylbenzene
 Concen: 6.772 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN061604.D
 Acq: 1 Jun 2020 18:53

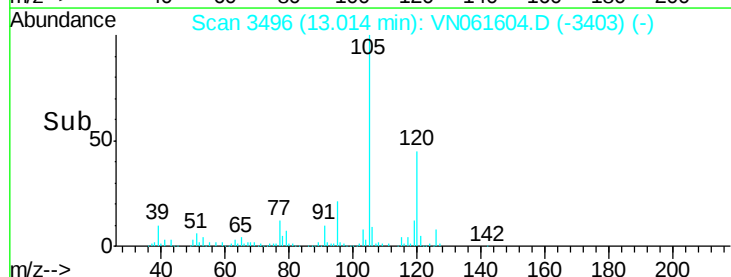
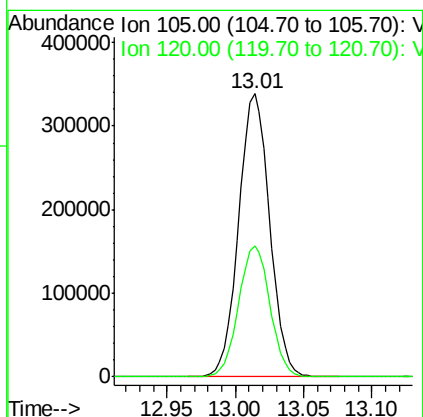
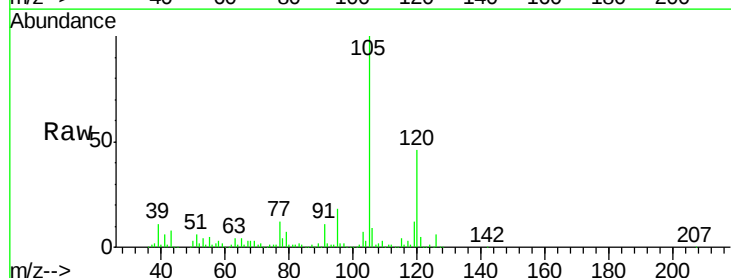
Instrument :
 MSVOA_N
 ClientSampleId :
 C0AP7

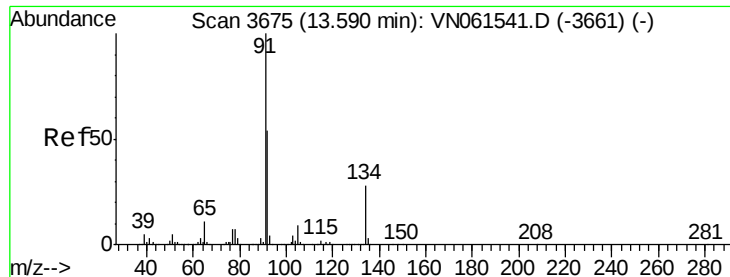
Tot Ion:105 Resp: 138116
 Ion Ratio Lower Upper
 105 100
 120 51.8 25.1 75.2



#84
 1,2,4-Trimethylbenzene
 Concen: 26.304 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. -0.00 min
 Lab File: VN061604.D
 Acq: 1 Jun 2020 18:53

Tgt Ion:105 Resp: 532965
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.2 69.5

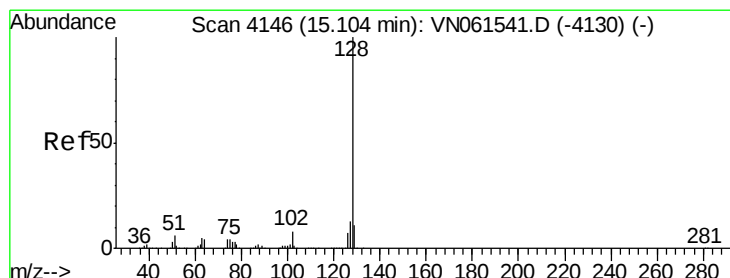
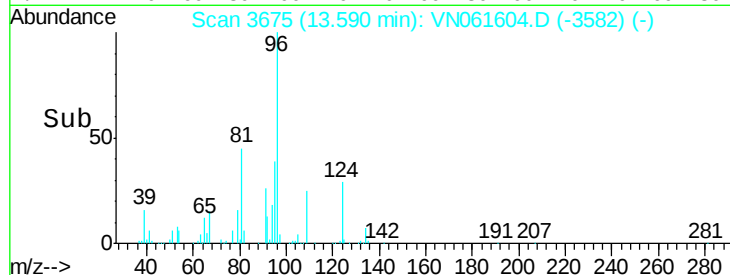
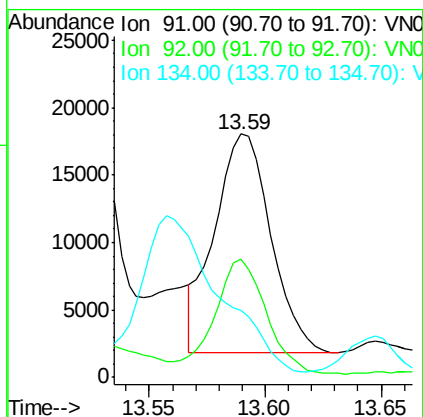
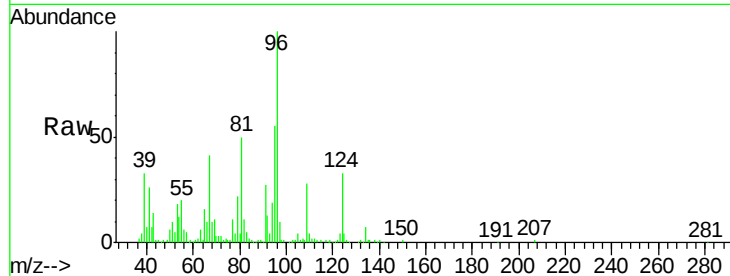




#89
n-Butylbenzene
Concen: 1.522 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Instrument :
MSVOA_N
ClientSampleId :
C0AP7

Tot Ion: 91 Resp: 27254
Ion Ratio Lower Upper
91 100
92 48.6 27.2 81.6
134 0.0 14.0 42.0#



#95
Naphthalene
Concen: 53.567 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. -0.00 min
Lab File: VN061604.D
Acq: 1 Jun 2020 18:53

Tgt Ion: 128 Resp: 1005144
Ion Ratio Lower Upper
128 100
127 12.9 10.0 15.0
129 11.0 8.5 12.7

