

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059290.D
 Acq On : 18 Nov 2019 17:34
 Operator : JC/SP
 Sample : K5900-10 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30699

Quant Time: Nov 19 08:40:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	420682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	663434	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	583386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	291513	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	241395	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	
35) Dibromofluoromethane	7.57	113	197997	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	10.08	98	805522	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.40	95	296559	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	

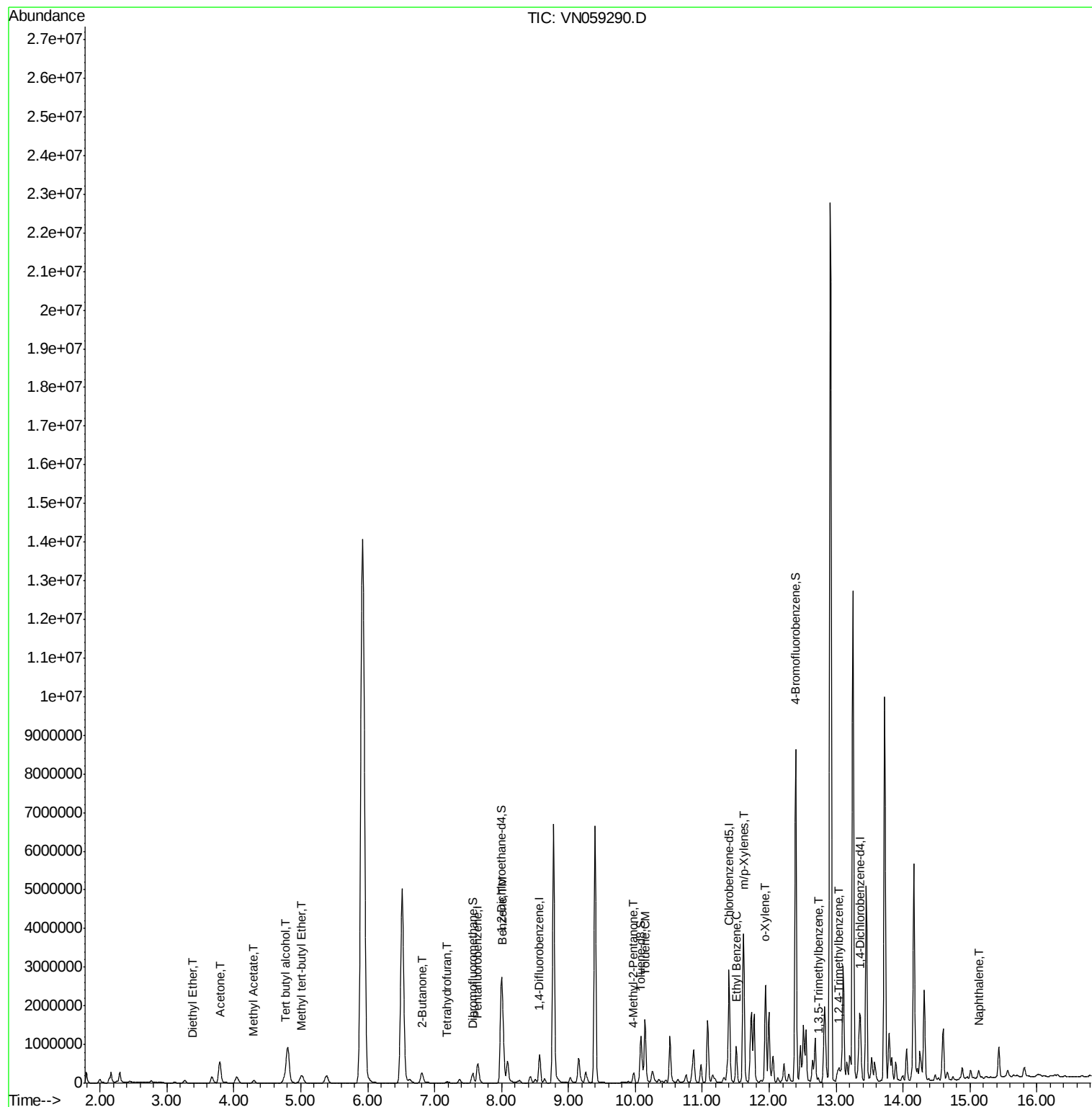
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	3506	1.291	ug/l	95
11) Tert butyl alcohol	4.76	59	399663	405.530	ug/l #	90
16) Acetone	3.79	43	892765	331.987	ug/l	95
18) Methyl Acetate	4.29	43	132720	20.793	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	354251	26.220	ug/l	98
25) 2-Butanone	6.81	43	466647	131.667	ug/l	98
29) Tetrahydrofuran	7.19	42	25118	11.154	ug/l	97
40) Benzene	8.02	78	1316993	70.526	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	182893	29.390	ug/l	96
52) Toluene	10.15	92	731717	65.375	ug/l	100
67) Ethyl Benzene	11.51	91	683839	33.891	ug/l	99
68) m/p-Xylenes	11.62	106	1277011	168.957	ug/l	96
69) o-Xylene	11.94	106	597855	81.850	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	51366	2.859	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	212001	12.195	ug/l	92
95) Naphthalene	15.13	128	153396	12.581	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

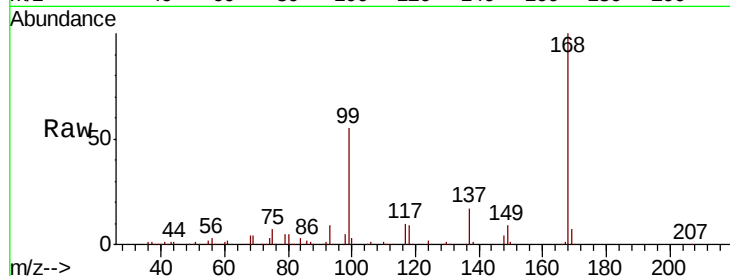
30699

Tot Ion:168 Resp: 420682

Ion Ratio Lower Upper

168 100

99 55.5 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

150000

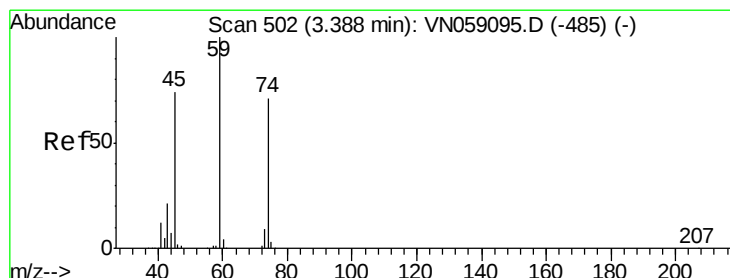
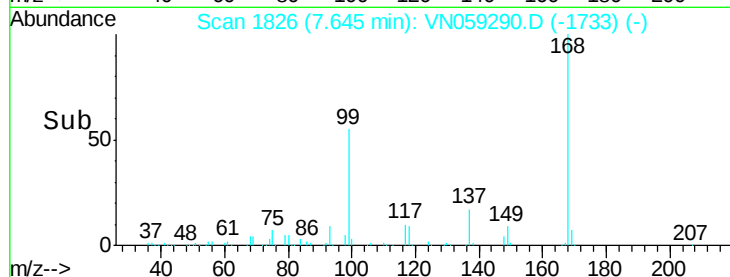
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 1.291 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN059290.D

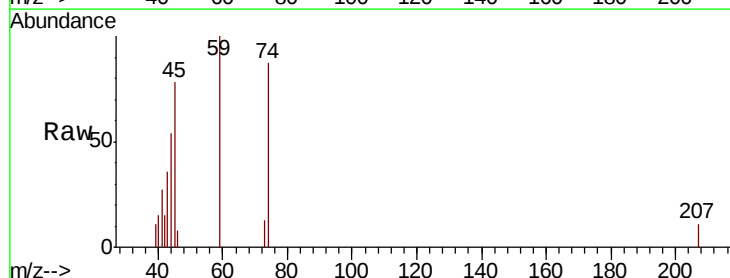
Acq: 18 Nov 2019 17:34

Tgt Ion: 74 Resp: 3506

Ion Ratio Lower Upper

74 100

45 108.8 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

2500

2000

1500

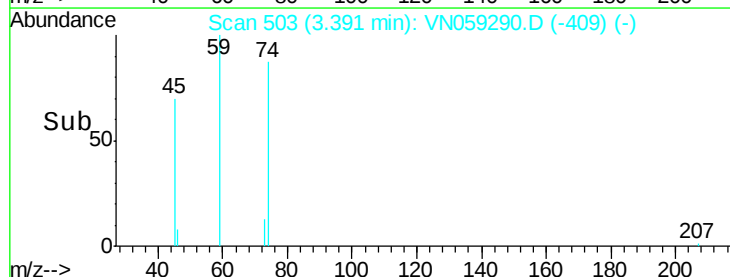
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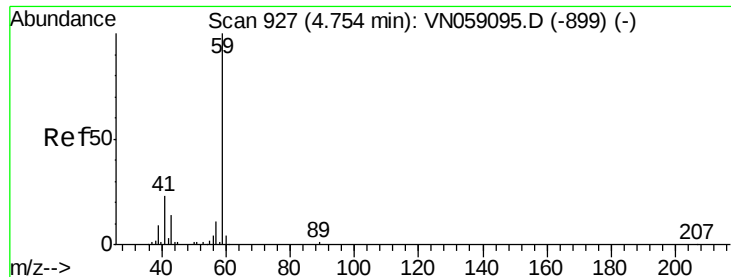
500

0

3.35 3.40 3.45

Time-->



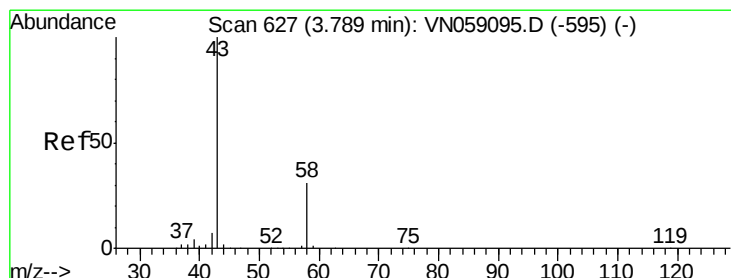
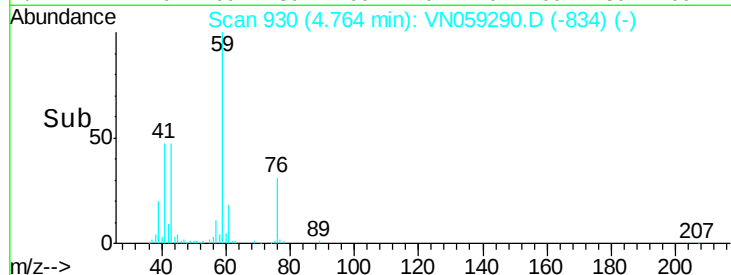
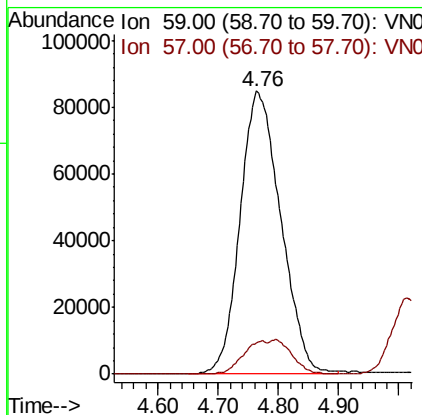
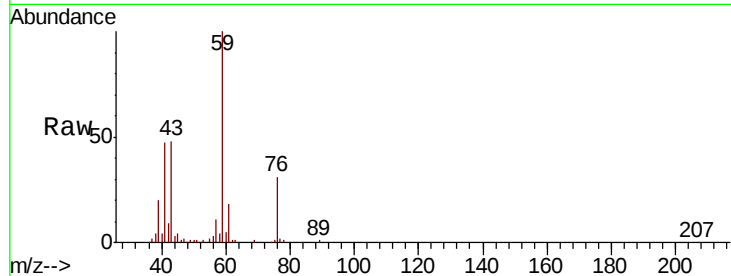


#11

Tert butyl alcohol
 Concen: 405.530 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN059290.D
 Acq: 18 Nov 2019 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 30699

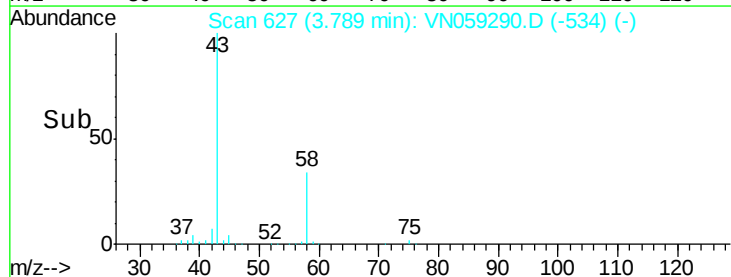
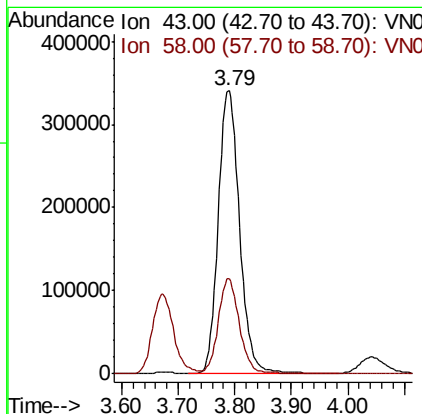
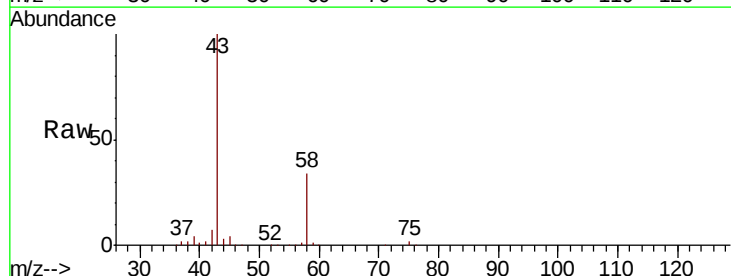
Tot Ion: 59 Resp: 399663
 Ion Ratio Lower Upper
 59 100
 57 6.7 8.3 12.5#

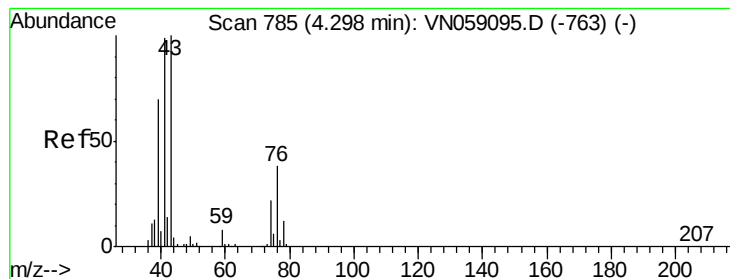


#16

Acetone
 Concen: 331.987 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. -0.00 min
 Lab File: VN059290.D
 Acq: 18 Nov 2019 17:34

Tgt Ion: 43 Resp: 892765
 Ion Ratio Lower Upper
 43 100
 58 33.8 24.9 37.3





#18

Methyl Acetate

Concen: 20.793 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

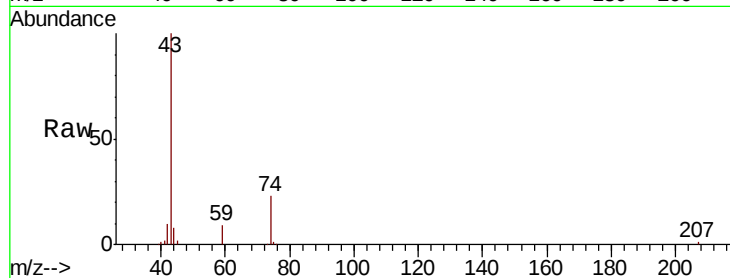
30699

Tot Ion: 43 Resp: 132720

Ion Ratio Lower Upper

43 100

74 23.5 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

50000

40000

30000

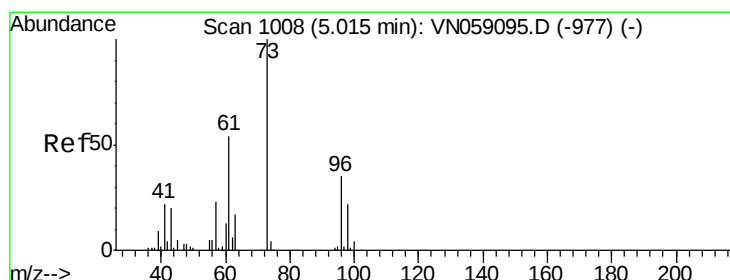
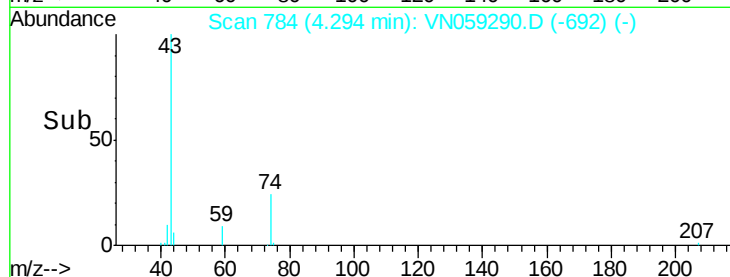
20000

10000

0

4.20 4.30 4.40

Time-->



#19

Methyl tert-butyl Ether

Concen: 26.220 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN059290.D

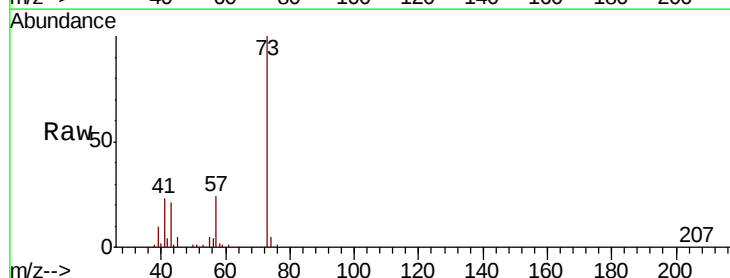
Acq: 18 Nov 2019 17:34

Tgt Ion: 73 Resp: 354251

Ion Ratio Lower Upper

73 100

57 24.1 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

5.01

100000

80000

60000

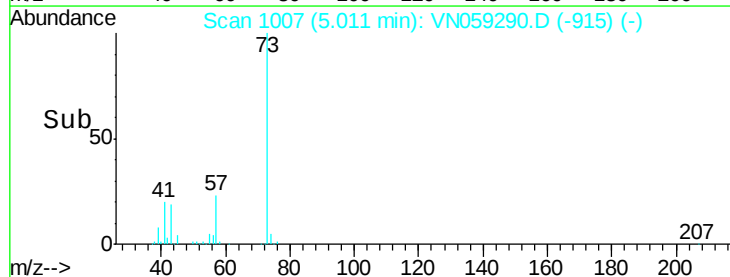
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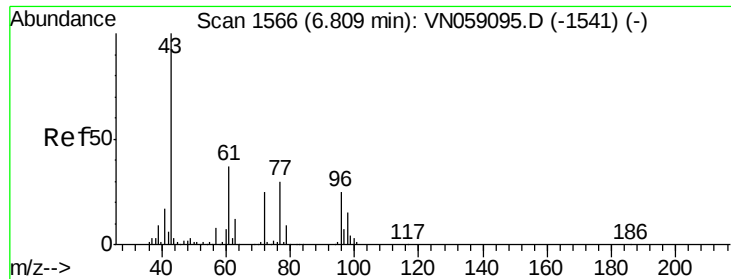
20000

0

4.90 5.00 5.10

Time-->





#25

2-Butanone

Concen: 131.667 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

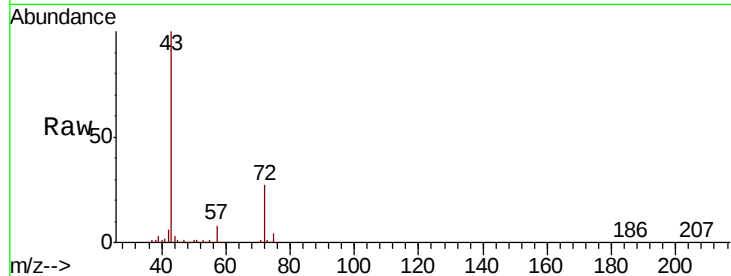
30699

Tot Ion: 43 Resp: 466647

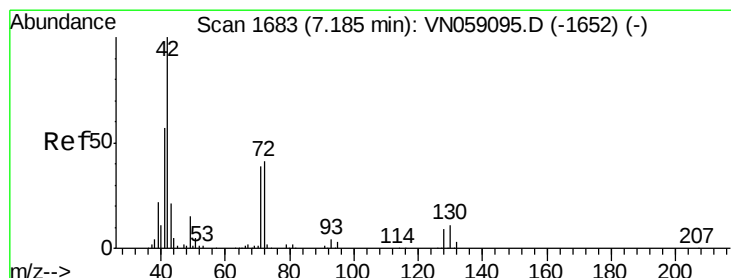
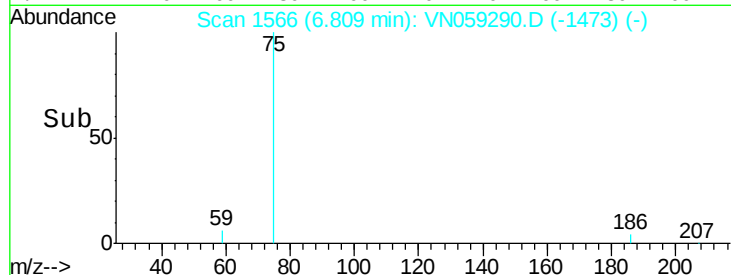
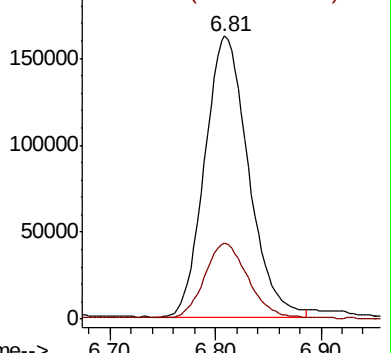
Ion Ratio Lower Upper

43 100

72 26.6 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO



#29

Tetrahydrofuran

Concen: 11.154 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

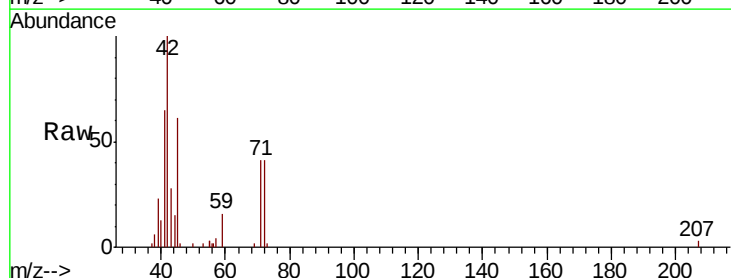
Tgt Ion: 42 Resp: 25118

Ion Ratio Lower Upper

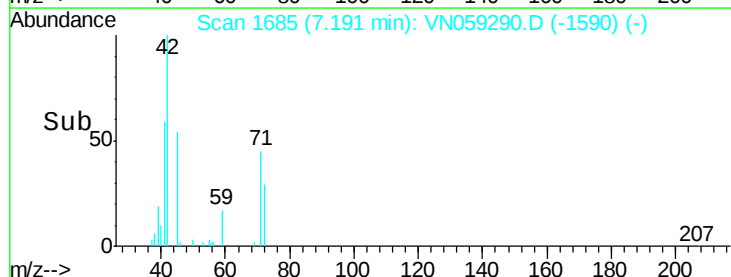
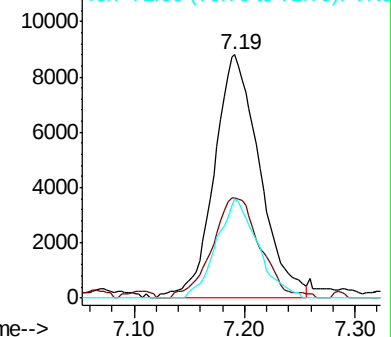
42 100

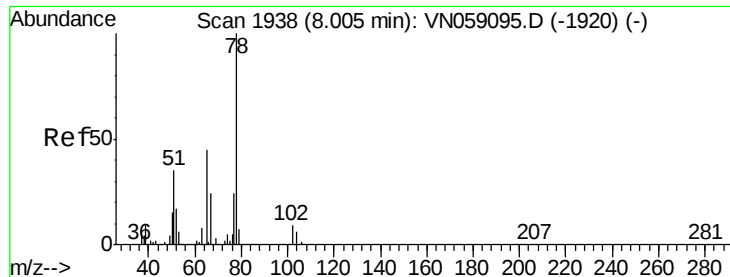
72 43.4 33.1 49.7

71 37.1 30.9 46.3



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 46.680 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

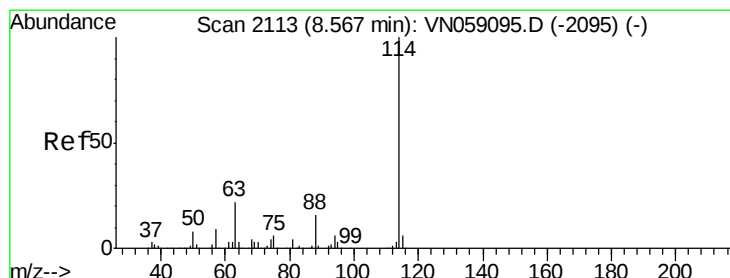
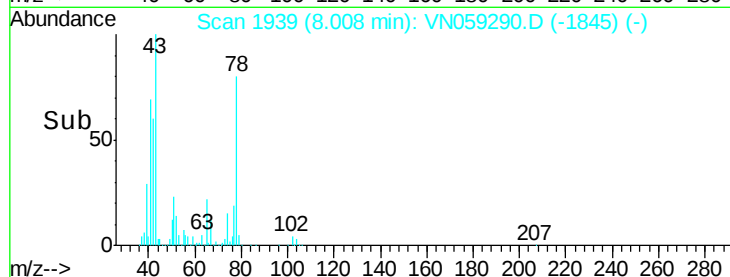
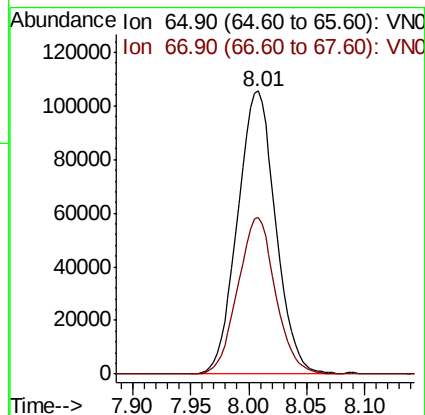
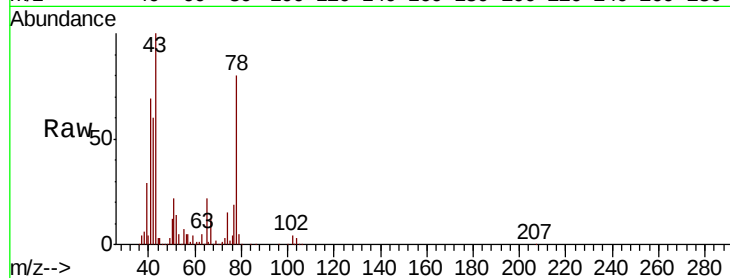
30699

Tot Ion: 65 Resp: 241395

Ion Ratio Lower Upper

65 100

67 54.8 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

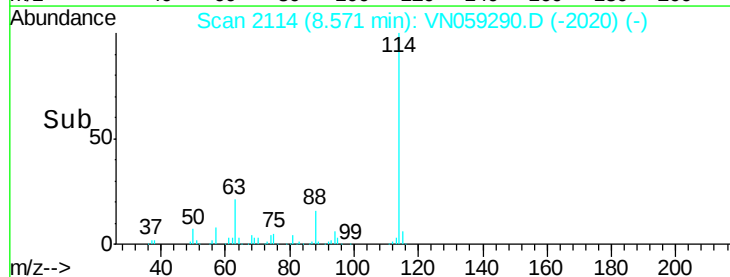
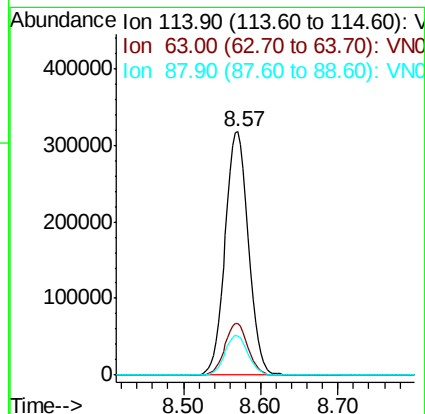
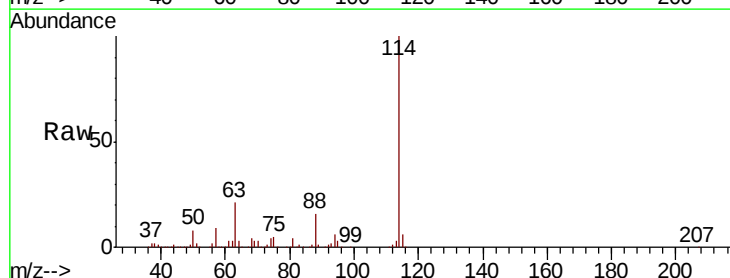
Tgt Ion: 114 Resp: 663434

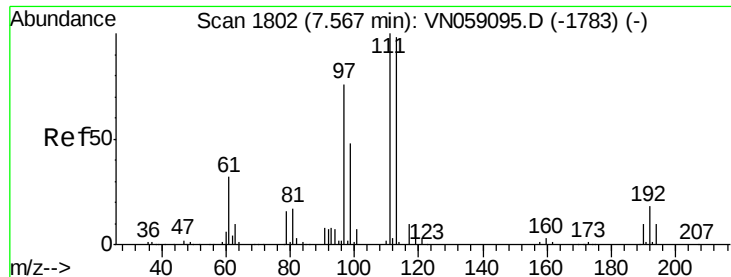
Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.4

88 16.2 0.0 32.2

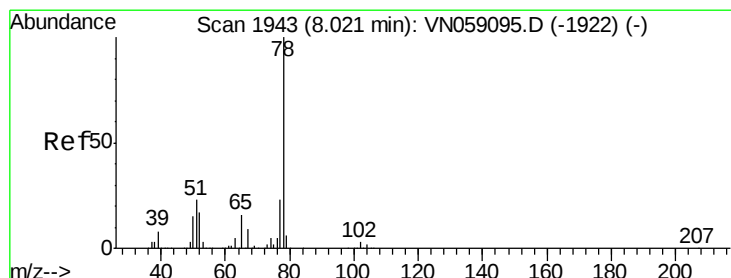
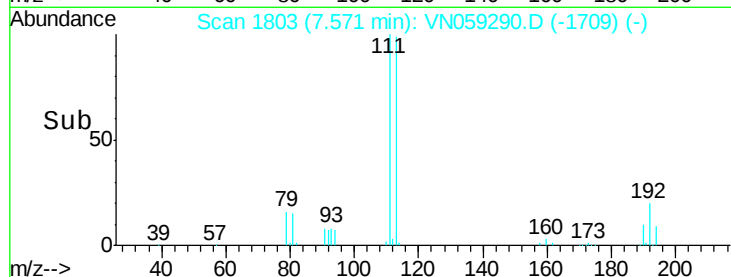
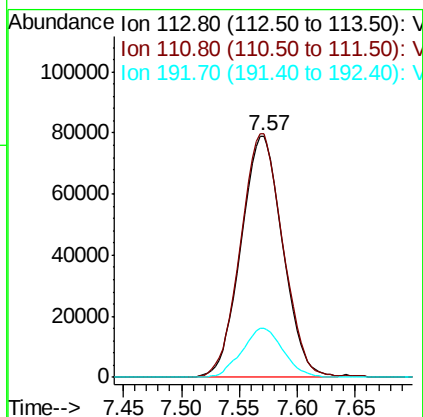
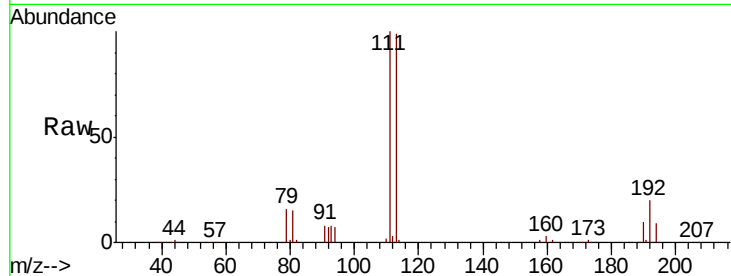




#35
 Dibromofluoromethane
 Concen: 49.982 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059290.D
 Acq: 18 Nov 2019 17:34

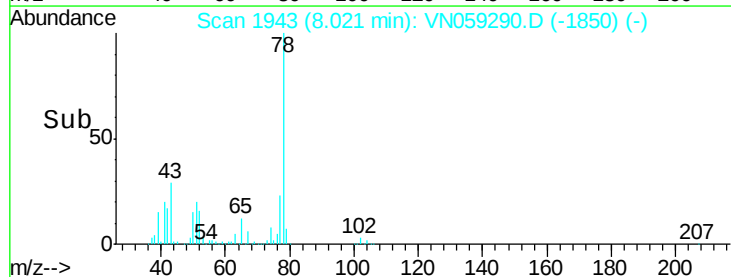
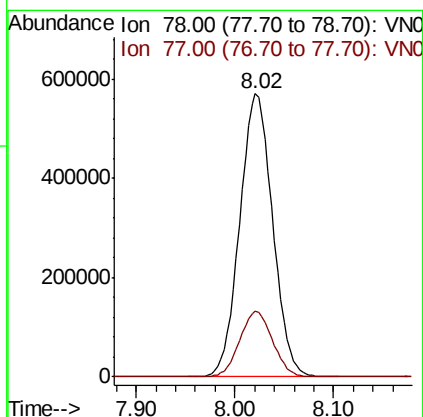
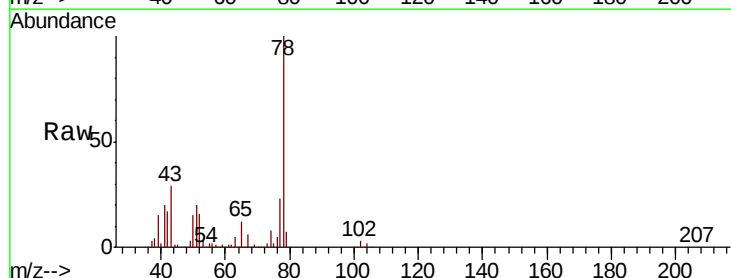
Instrument :
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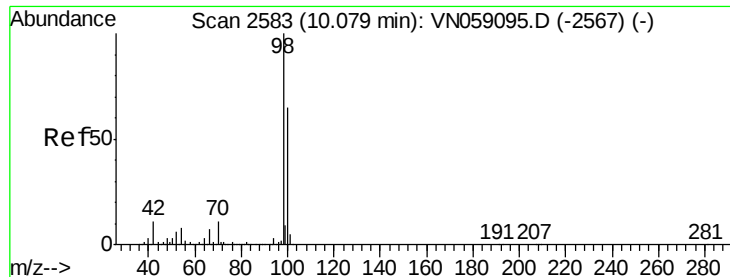
Tot Ion:113 Resp: 197997
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.8 124.2
 192 20.3 16.1 24.1



#40
 Benzene
 Concen: 70.526 ug/l
 RT: 8.02 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN059290.D
 Acq: 18 Nov 2019 17:34

Tgt Ion: 78 Resp: 1316993
 Ion Ratio Lower Upper
 78 100
 77 23.2 18.8 28.2





#50

Toluene-d8

Concen: 51.625 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

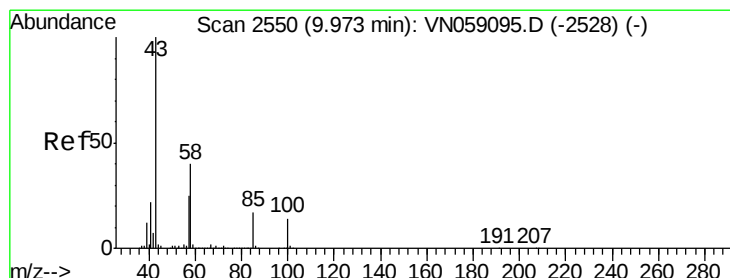
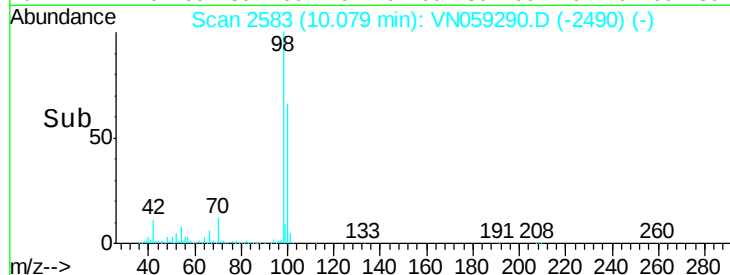
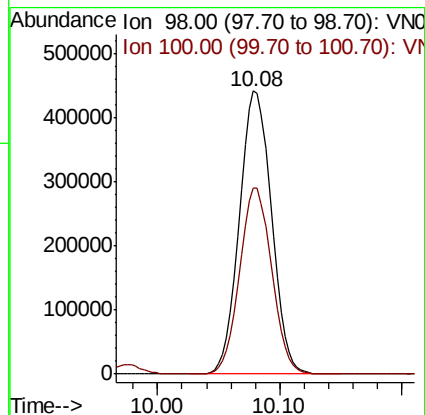
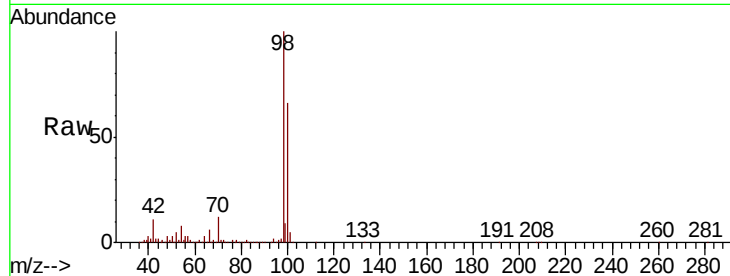
30699

Tot Ion: 98 Resp: 805522

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 29.390 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059290.D

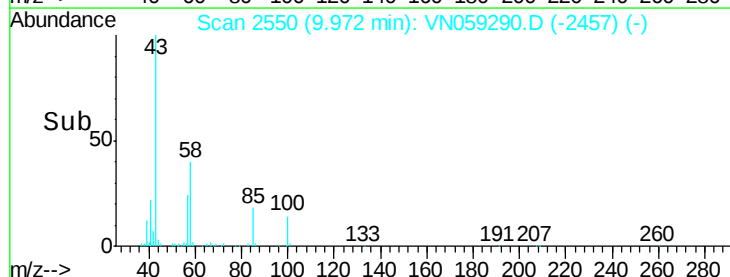
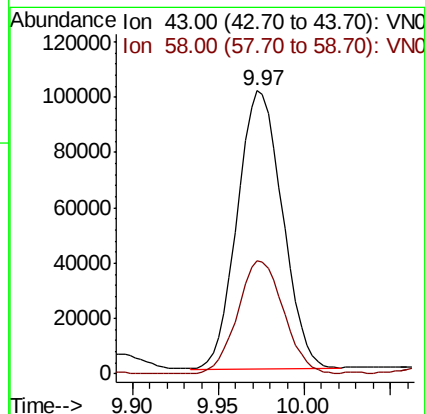
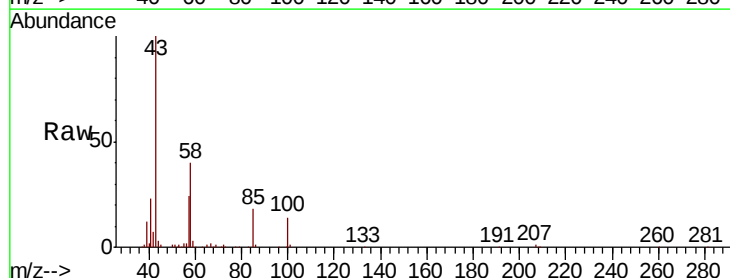
Acq: 18 Nov 2019 17:34

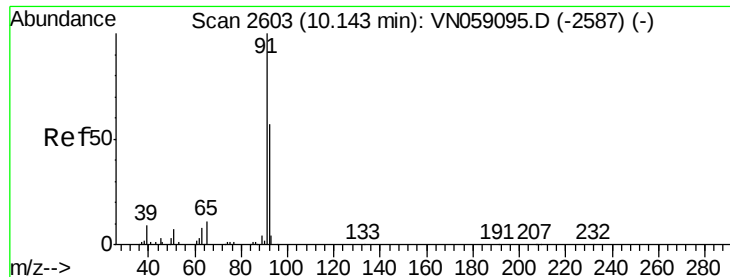
Tgt Ion: 43 Resp: 182893

Ion Ratio Lower Upper

43 100

58 41.6 31.5 47.3





#52

Toluene

Concen: 65.375 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampleId :

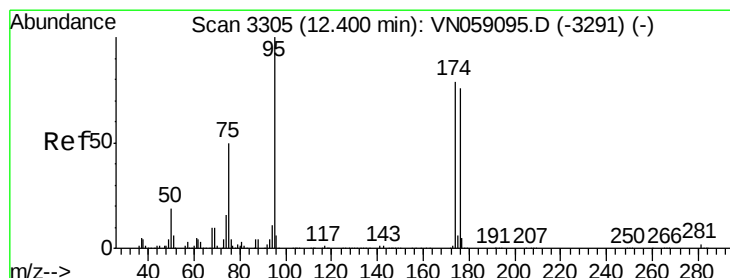
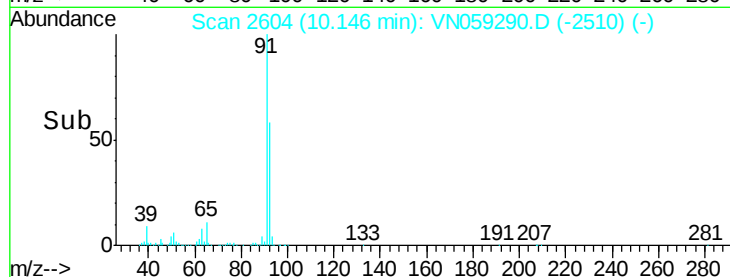
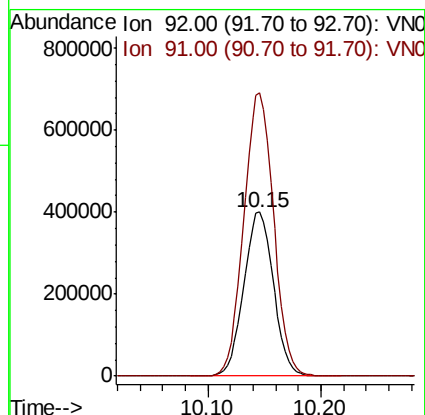
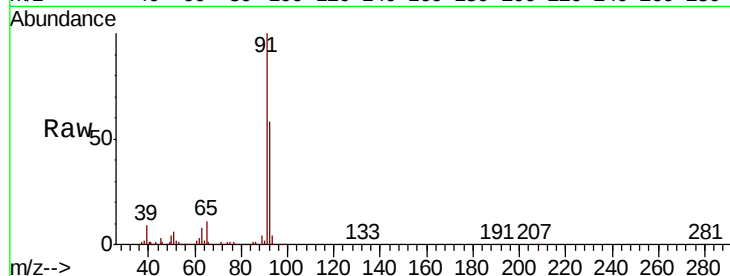
30699

Tot Ion: 92 Resp: 731717

Ion Ratio Lower Upper

92 100

91 173.7 139.5 209.3



#62

4-Bromofluorobenzene

Concen: 52.712 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

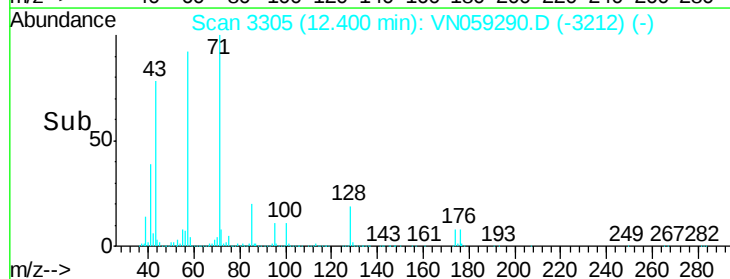
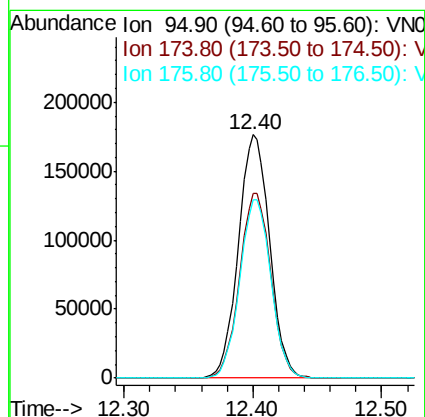
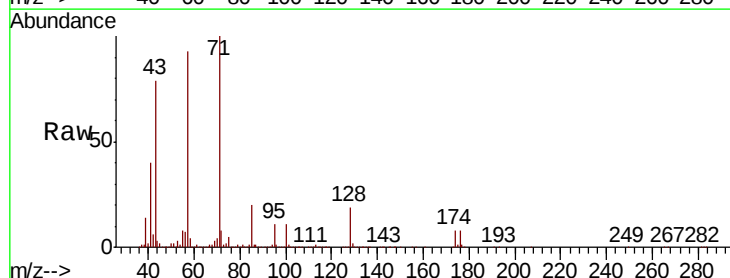
Tgt Ion: 95 Resp: 296559

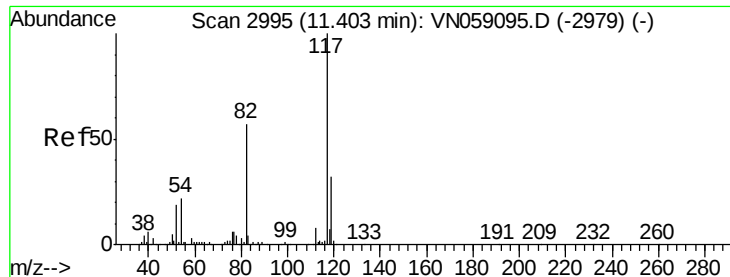
Ion Ratio Lower Upper

95 100

174 76.0 0.0 158.2

176 73.4 0.0 151.8

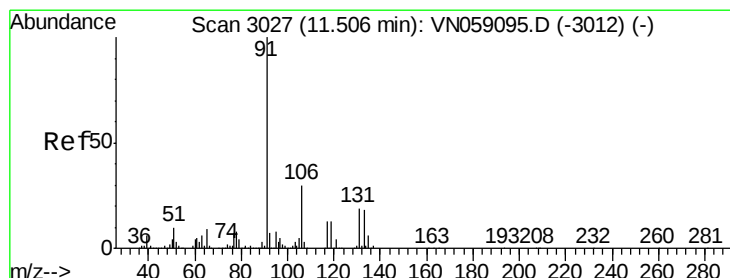
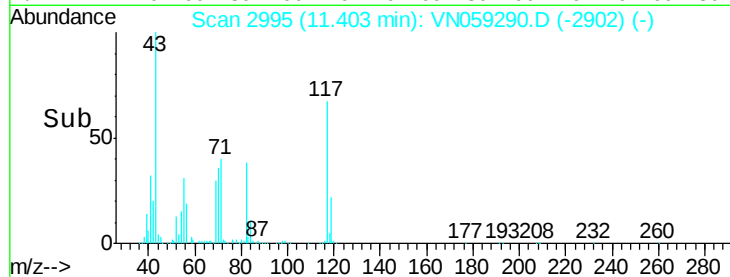
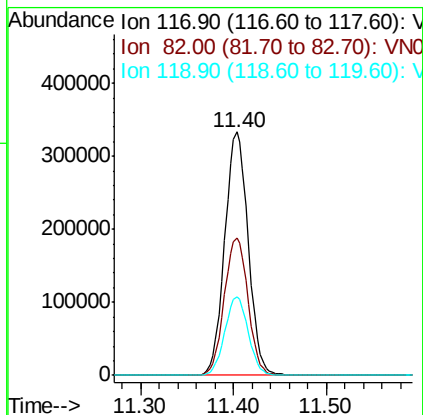
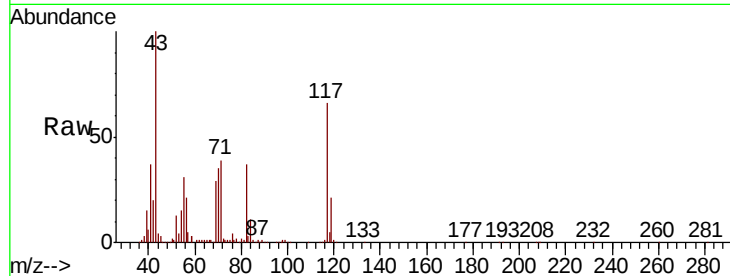




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059290.D
Acq: 18 Nov 2019 17:34

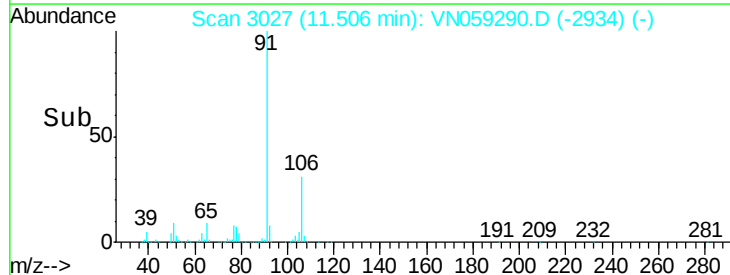
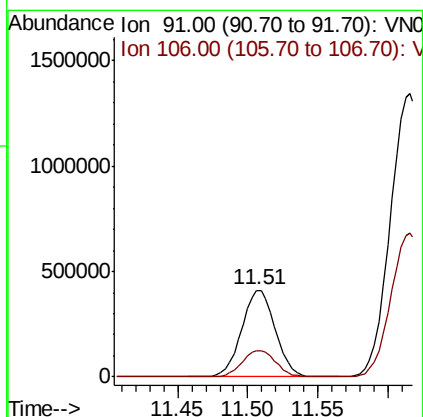
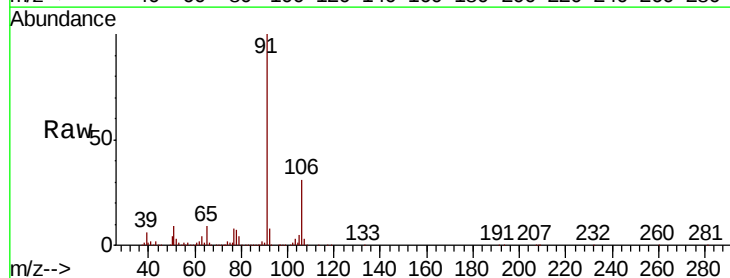
Instrument :
MSVOA_N
ClientSampled :
30699

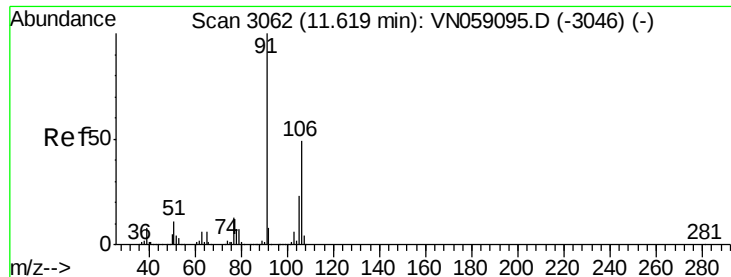
Tot Ion:117 Resp: 583386
Ion Ratio Lower Upper
117 100
82 56.6 45.8 68.8
119 32.3 25.8 38.6



#67
Ethyl Benzene
Concen: 33.891 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059290.D
Acq: 18 Nov 2019 17:34

Tgt Ion: 91 Resp: 683839
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1

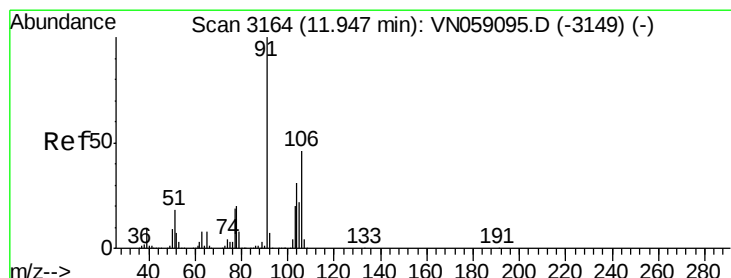
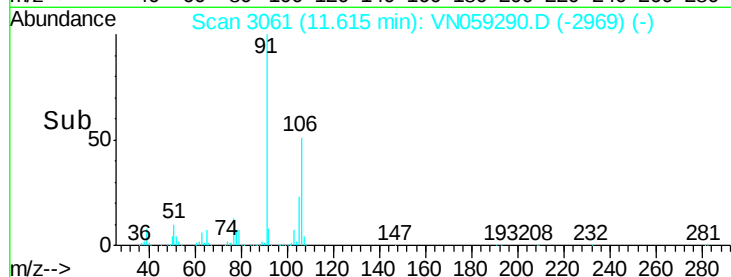
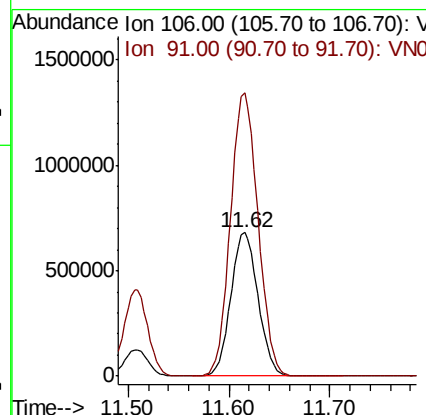
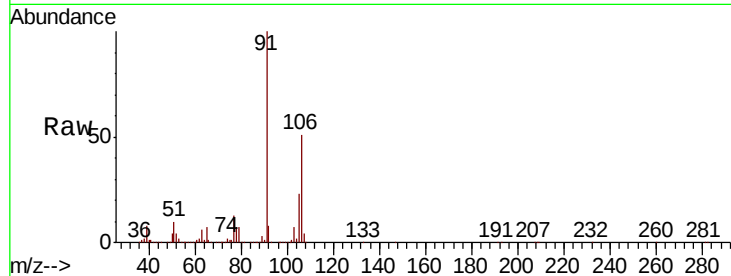




#68
m/p-Xylenes
Concen: 168.957 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059290.D
Acq: 18 Nov 2019 17:34

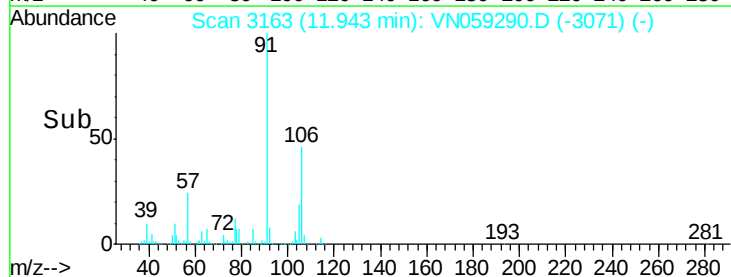
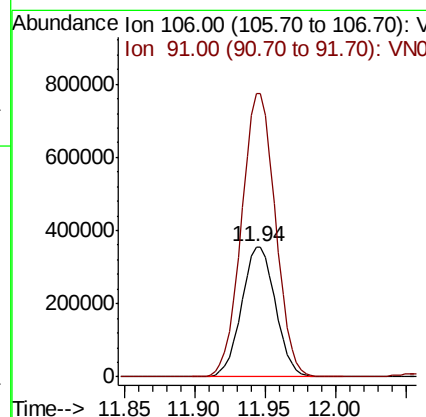
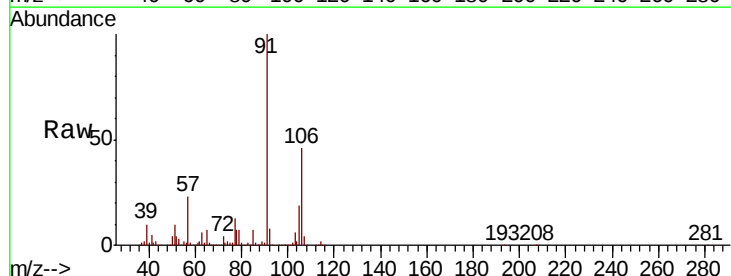
Instrument :
MSVOA_N
ClientSampled :
30699

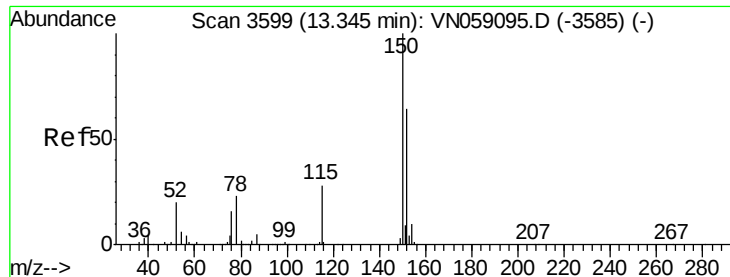
Tot Ion:106 Resp: 1277011
Ion Ratio Lower Upper
106 100
91 200.4 164.7 247.1



#69
o-Xylene
Concen: 81.850 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN059290.D
Acq: 18 Nov 2019 17:34

Tgt Ion:106 Resp: 597855
Ion Ratio Lower Upper
106 100
91 218.2 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

30699

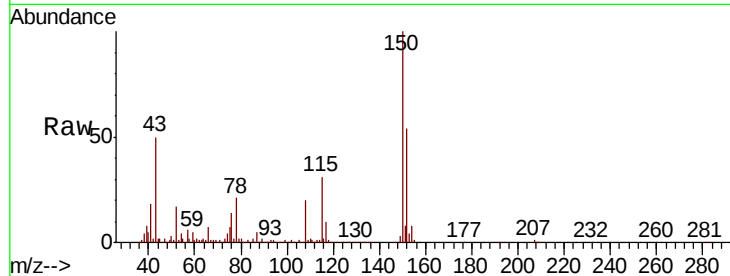
Tot Ion:152 Resp: 291513

Ion Ratio Lower Upper

152 100

115 56.7 29.4 88.2

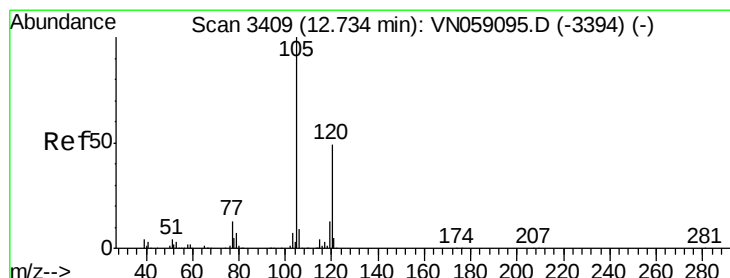
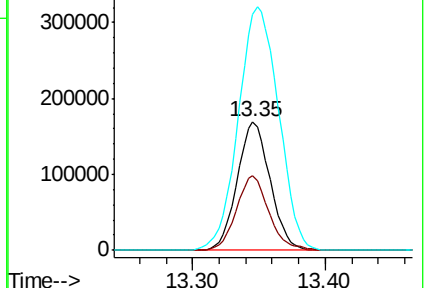
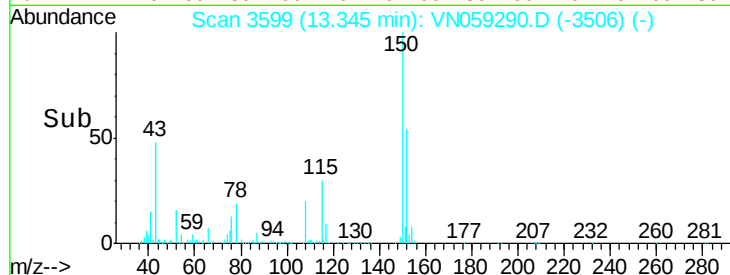
150 232.4 0.0 345.8



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



#80

1,3,5-Trimethylbenzene

Concen: 2.859 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059290.D

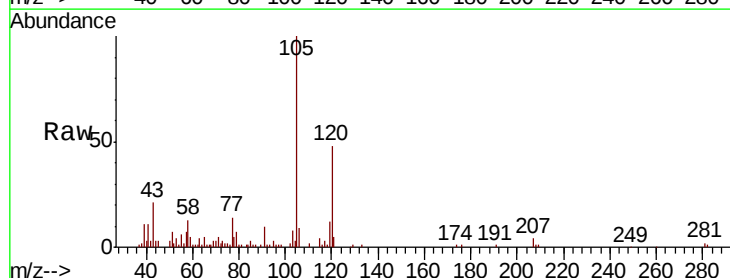
Acq: 18 Nov 2019 17:34

Tgt Ion:105 Resp: 51366

Ion Ratio Lower Upper

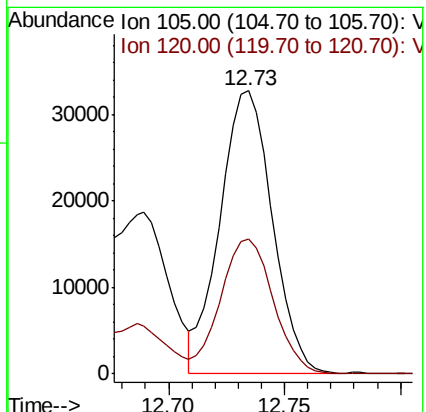
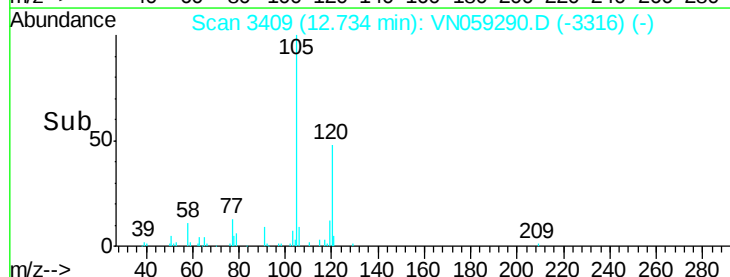
105 100

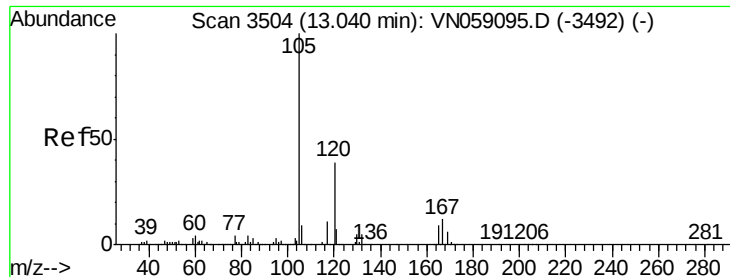
120 48.0 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 12.195 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

Instrument :

MSVOA_N

ClientSampled :

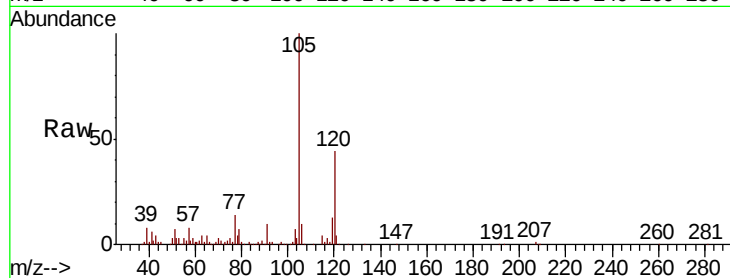
30699

Tot Ion:105 Resp: 212001

Ion Ratio Lower Upper

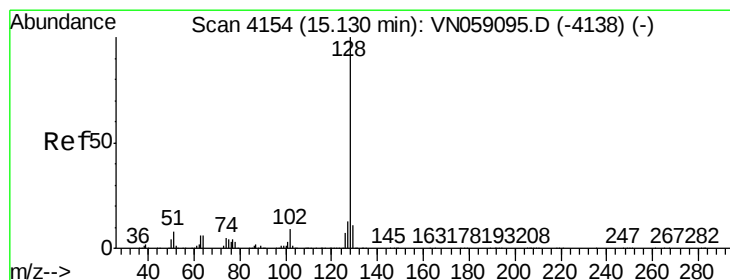
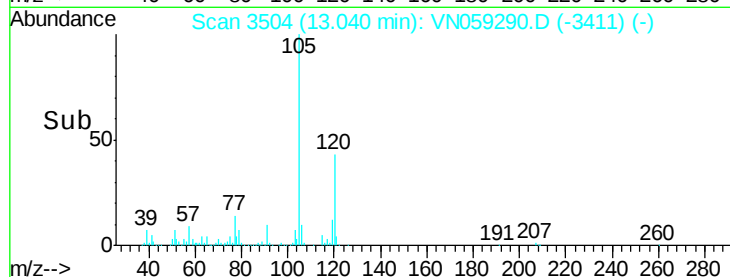
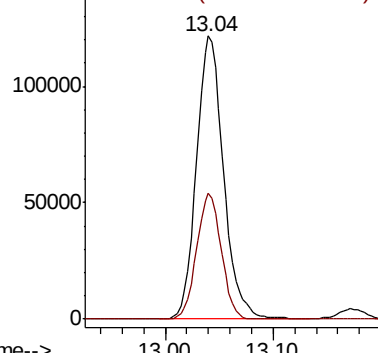
105 100

120 40.2 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 12.581 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059290.D

Acq: 18 Nov 2019 17:34

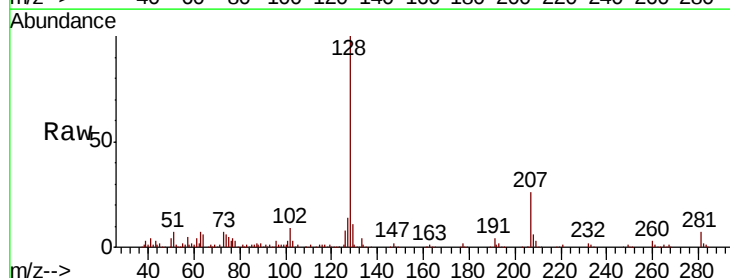
Tgt Ion:128 Resp: 153396

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.2

129 11.3 8.6 12.8



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

