

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059314.D
 Acq On : 19 Nov 2019 18:42
 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 20 03:48:59 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	455628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	714445	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	631778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	292914	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	262417	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
35) Dibromofluoromethane	7.57	113	210268	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
50) Toluene-d8	10.08	98	871214	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	312243	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	

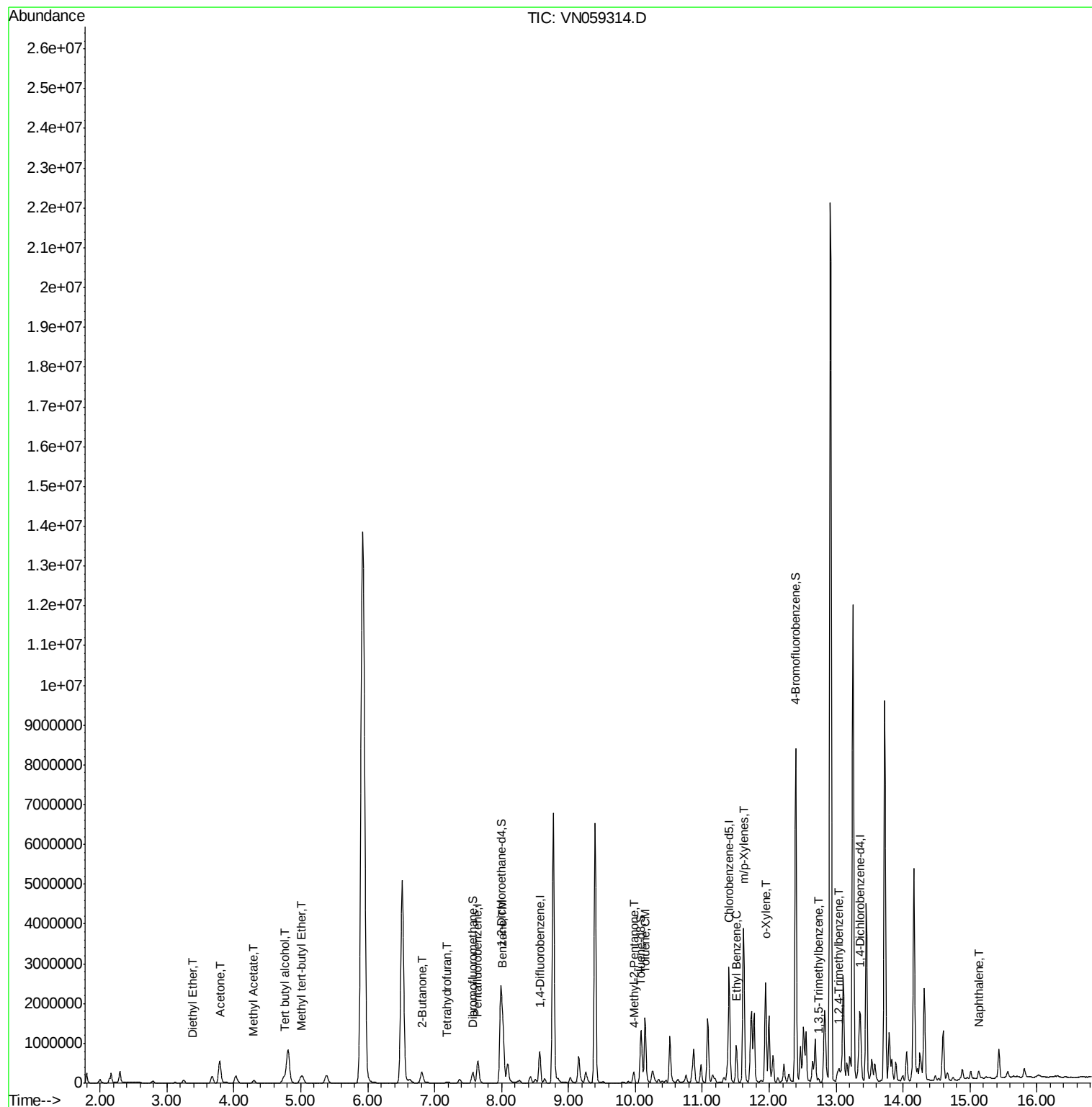
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	2980	1.013	ug/l	74
11) Tert butyl alcohol	4.75	59	373794	350.191	ug/l	95
16) Acetone	3.79	43	884217	303.589	ug/l	99
18) Methyl Acetate	4.30	43	126914	18.358	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	340569	23.274	ug/l	99
25) 2-Butanone	6.81	43	467230	121.720	ug/l	100
29) Tetrahydrofuran	7.19	42	24457	10.027	ug/l	96
40) Benzene	8.02	78	1281799	63.740	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	182355	27.211	ug/l	97
52) Toluene	10.15	92	720858	59.806	ug/l	98
67) Ethyl Benzene	11.51	91	679880	31.114	ug/l	100
68) m/p-Xylenes	11.62	106	1267527	154.857	ug/l	96
69) o-Xylene	11.95	106	595459	75.278	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	50413	2.792	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	199120	11.400	ug/l	94
95) Naphthalene	15.13	128	147950	12.198	ug/l	98

(#) = 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: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

ClientSampled :

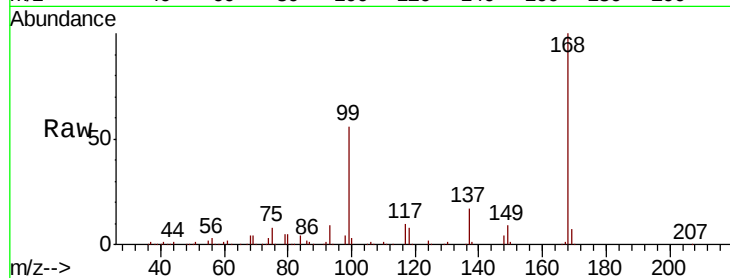
30699

Tot Ion:168 Resp: 455628

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): VNO

7.64

200000

150000

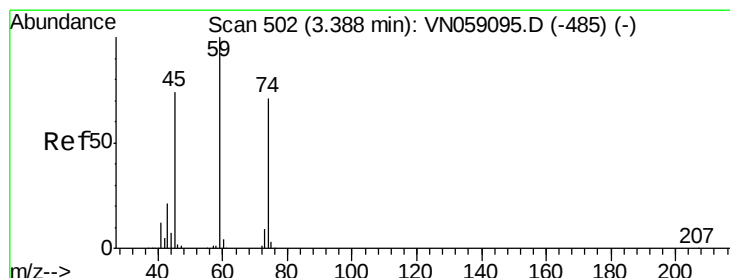
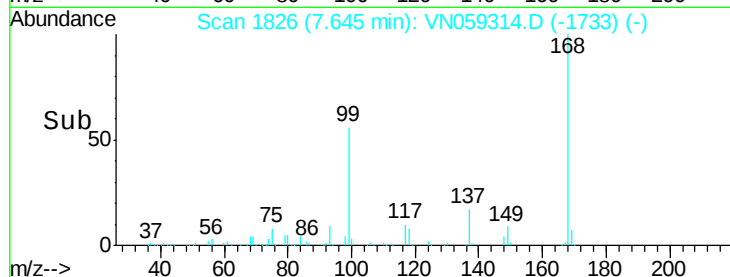
100000

50000

0

7.60 7.70

Time-->



#8

Diethyl Ether

Concen: 1.013 ug/l

RT: 3.39 min Scan# 504

Delta R.T. 0.01 min

Lab File: VN059314.D

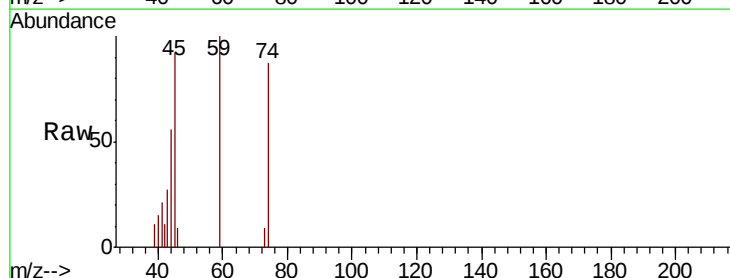
Acq: 19 Nov 2019 18:42

Tgt Ion: 74 Resp: 2980

Ion Ratio Lower Upper

74 100

45 129.6 51.6 154.9



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.39

2000

1500

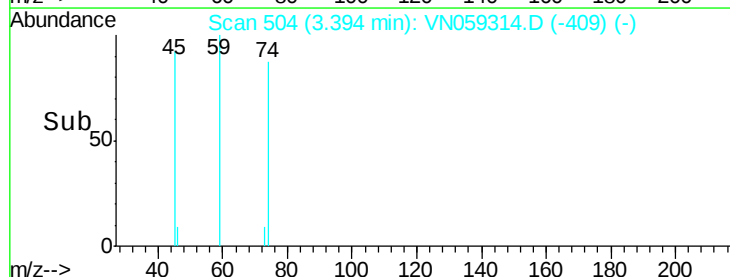
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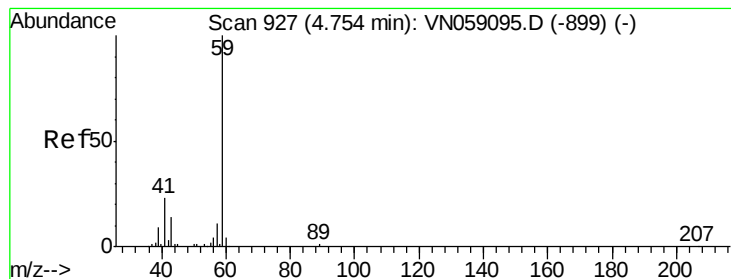
500

0

3.35 3.40

Time-->





#11

Tert butyl alcohol

Concen: 350.191 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

ClientSampleId :

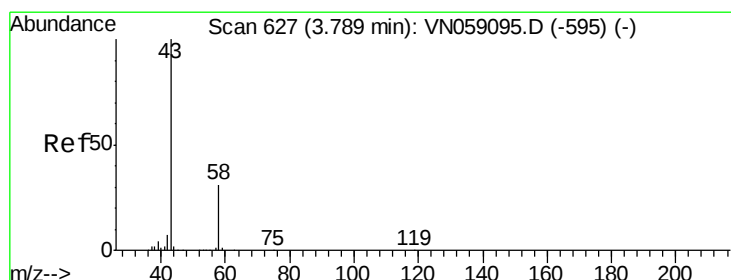
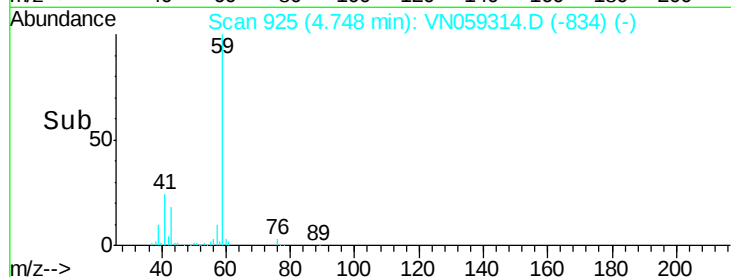
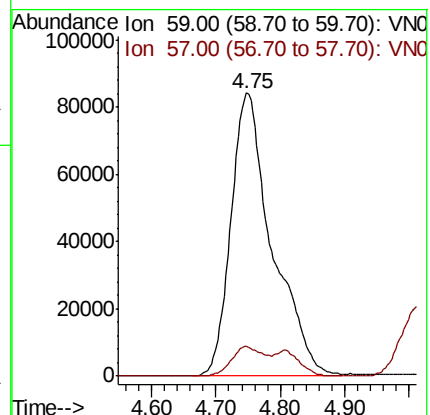
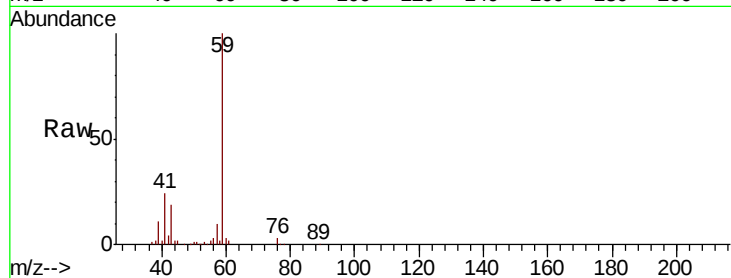
30699

Tot Ion: 59 Resp: 373794

Ion Ratio Lower Upper

59 100

57 8.4 8.3 12.5



#16

Acetone

Concen: 303.589 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN059314.D

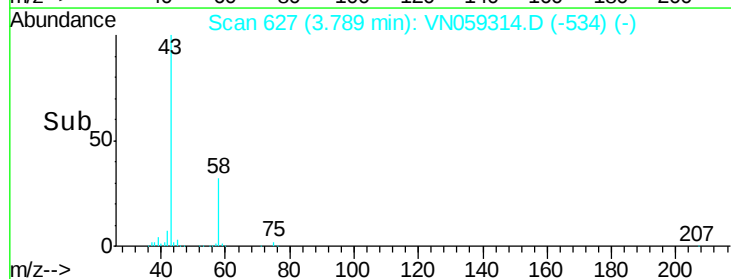
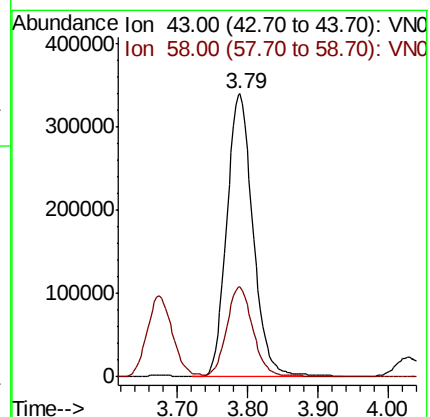
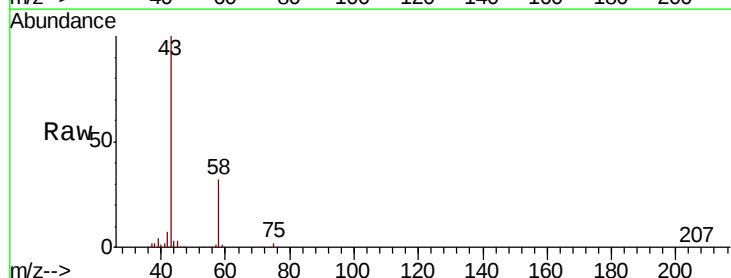
Acq: 19 Nov 2019 18:42

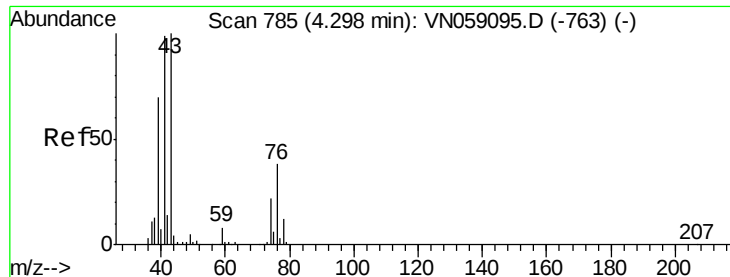
Tgt Ion: 43 Resp: 884217

Ion Ratio Lower Upper

43 100

58 31.6 24.9 37.3

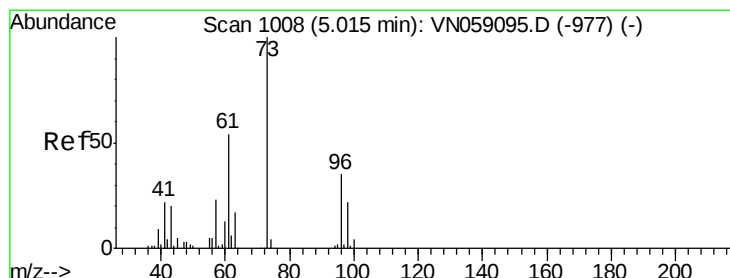
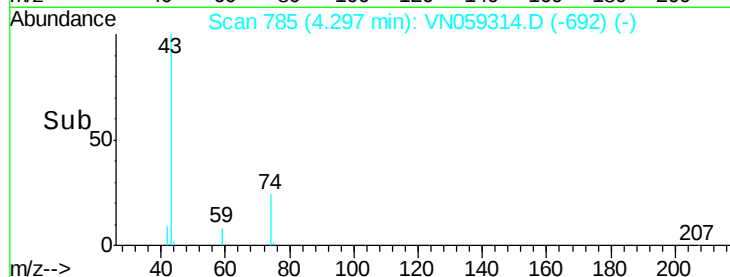
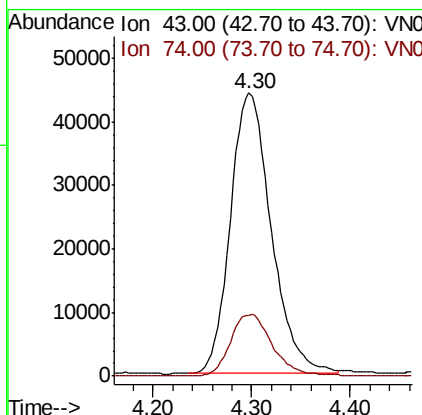
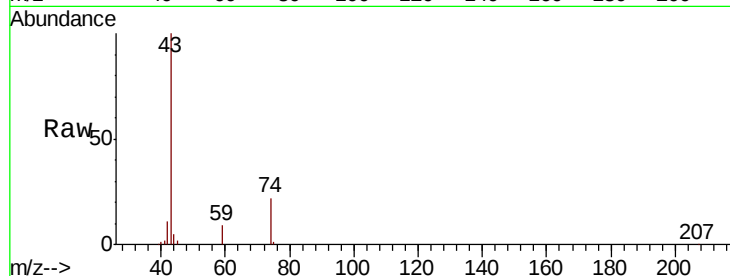




#18
Methyl Acetate
Concen: 18.358 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

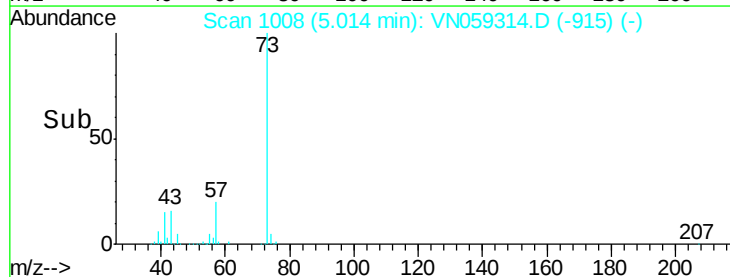
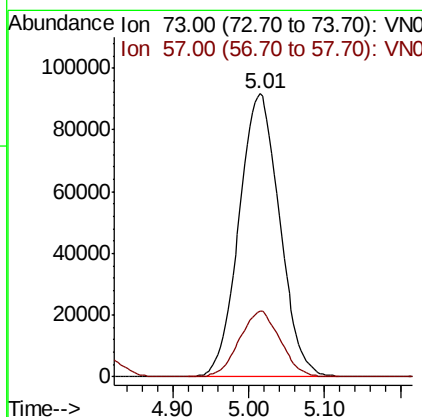
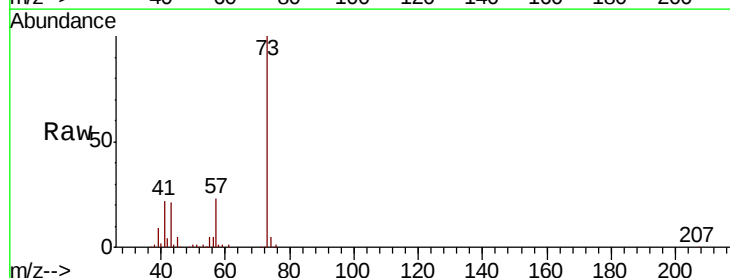
Instrument :
MSVOA_N
ClientSampled :
30699

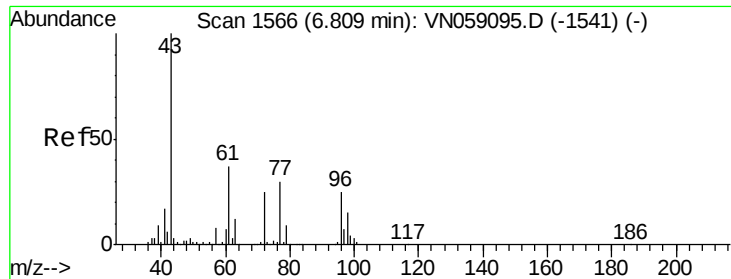
Tot Ion: 43 Resp: 126914
Ion Ratio Lower Upper
43 100
74 22.6 17.8 26.8



#19
Methyl tert-butyl Ether
Concen: 23.274 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

Tgt Ion: 73 Resp: 340569
Ion Ratio Lower Upper
73 100
57 23.3 18.4 27.6

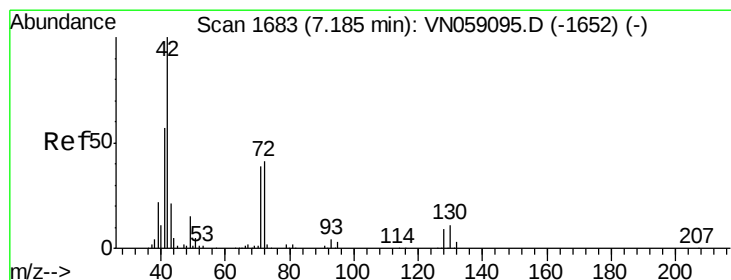
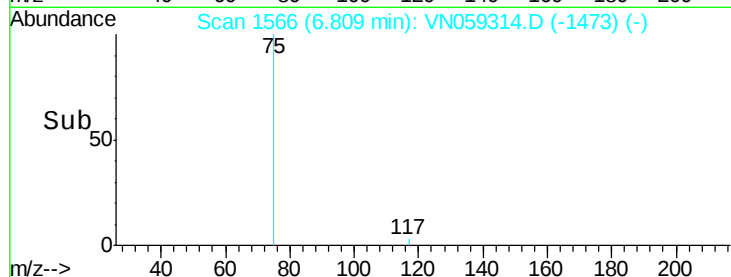
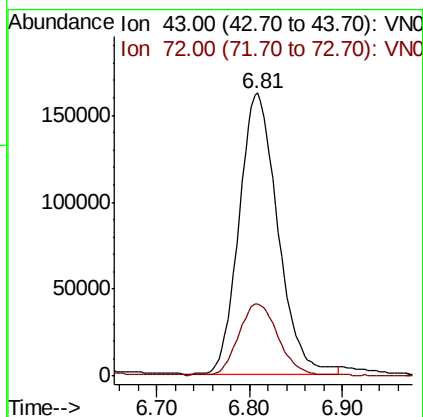
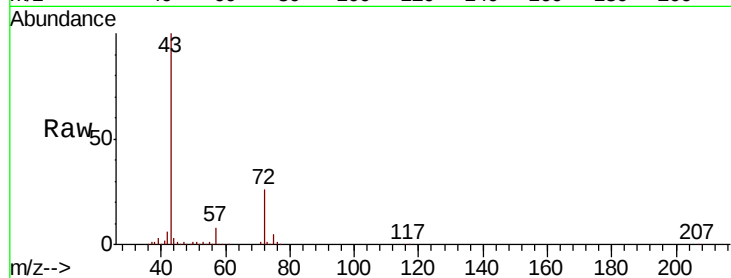




#25
2-Butanone
Concen: 121.720 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

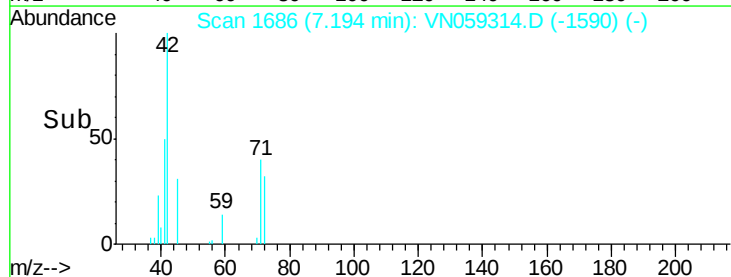
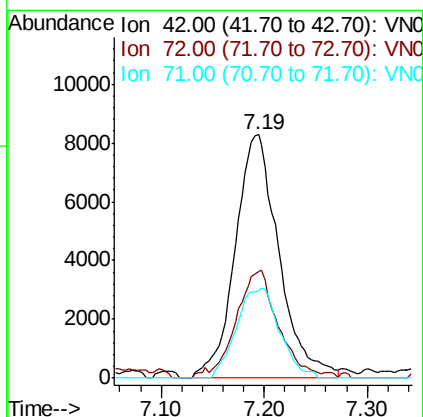
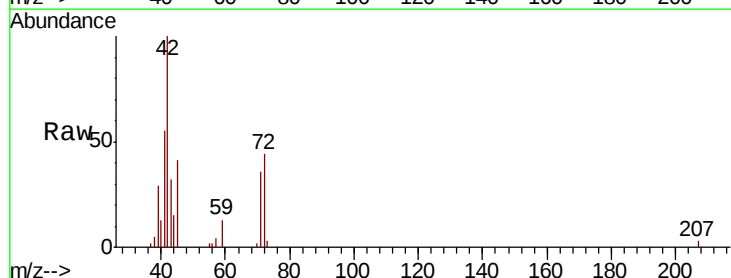
Instrument :
MSVOA_N
ClientSampled :
30699

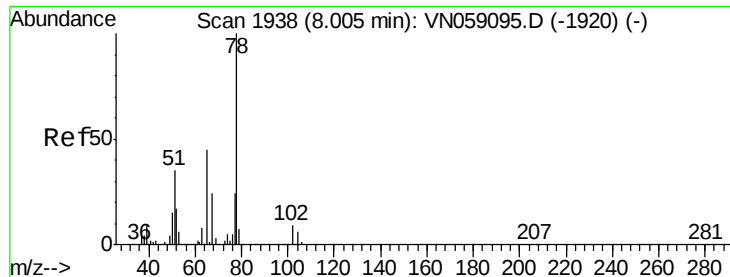
Tot Ion: 43 Resp: 467230
Ion Ratio Lower Upper
43 100
72 25.5 20.3 30.5



#29
Tetrahydrofuran
Concen: 10.027 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

Tgt Ion: 42 Resp: 24457
Ion Ratio Lower Upper
42 100
72 38.9 33.1 49.7
71 36.4 30.9 46.3

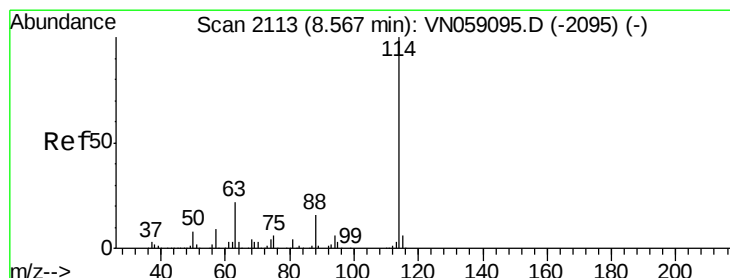
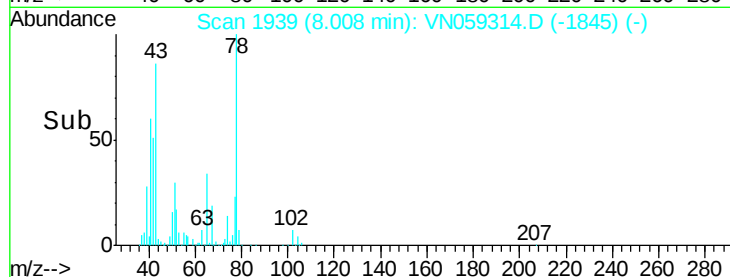
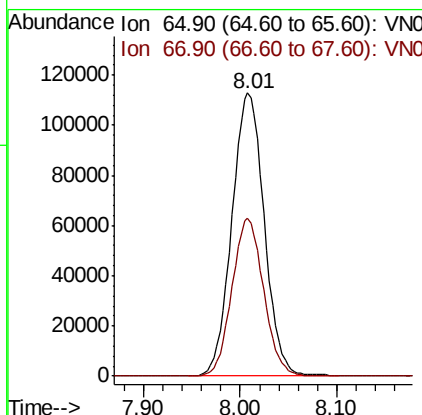
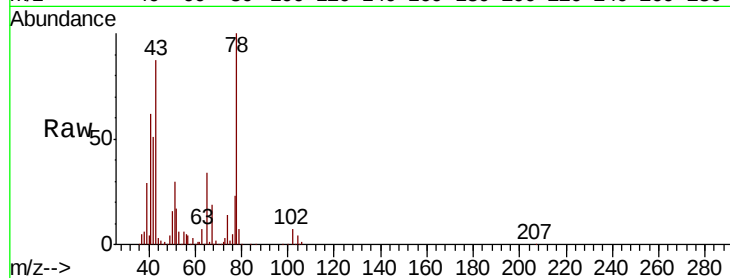




#33
 1,2-Dichloroethane-d4
 Concen: 46.853 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059314.D
 Acq: 19 Nov 2019 18:42

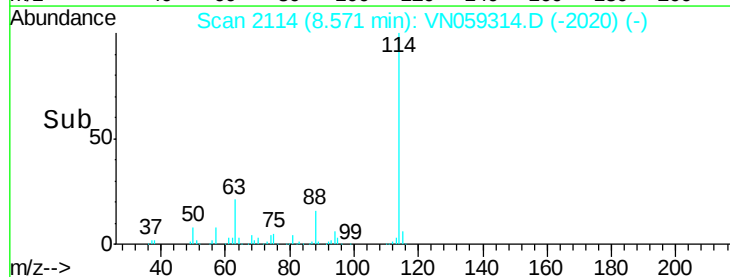
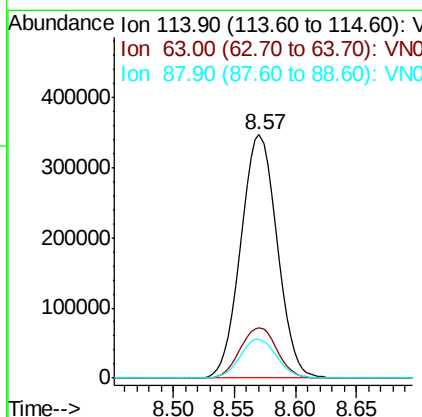
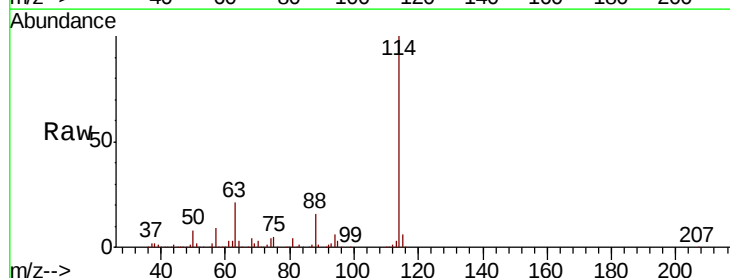
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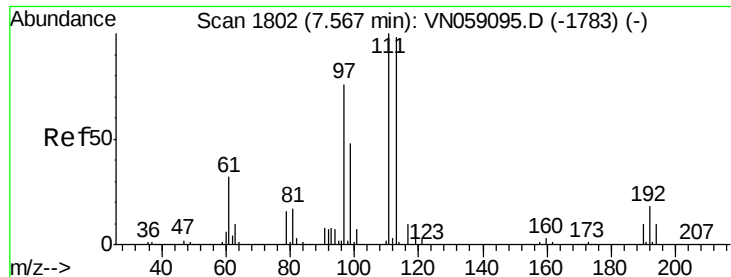
Tot Ion: 65 Resp: 262417
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059314.D
 Acq: 19 Nov 2019 18:42

Tgt Ion: 114 Resp: 714445
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 43.4
 88 15.9 0.0 32.2

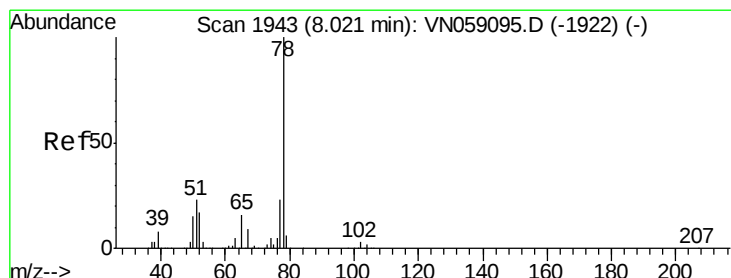
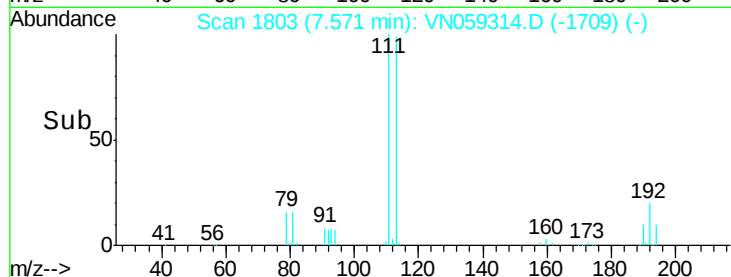
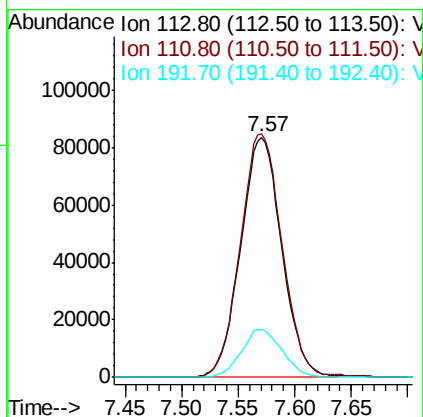
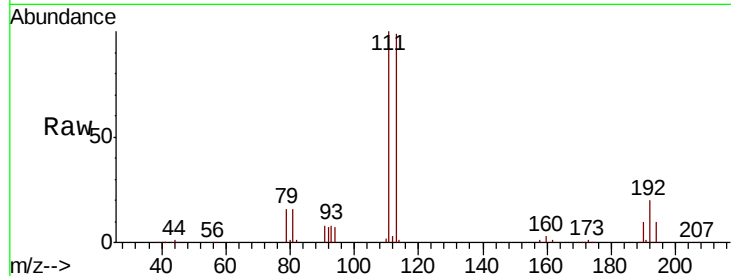




#35
Dibromofluoromethane
Concen: 49.290 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

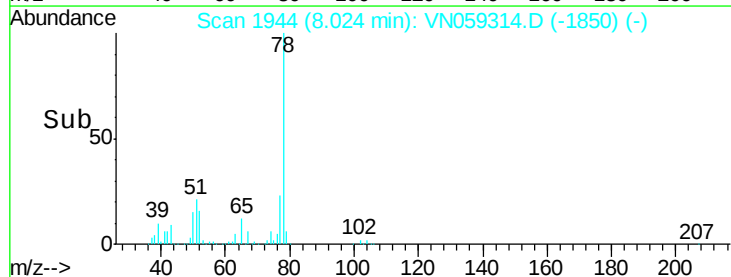
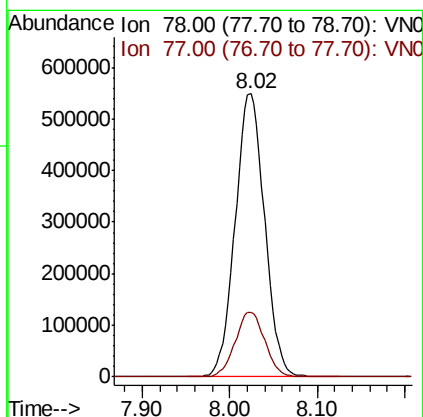
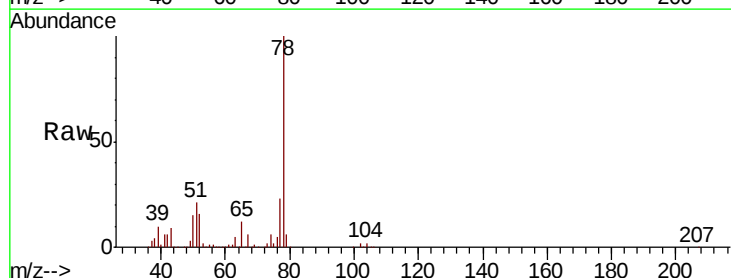
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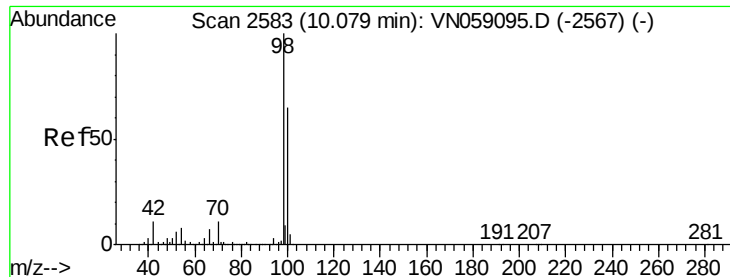
Tot Ion:113 Resp: 210268
Ion Ratio Lower Upper
113 100
111 103.5 82.8 124.2
192 19.9 16.1 24.1



#40
Benzene
Concen: 63.740 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

Tgt Ion: 78 Resp: 1281799
Ion Ratio Lower Upper
78 100
77 23.0 18.8 28.2





#50

Toluene-d8

Concen: 51.848 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

ClientSampled :

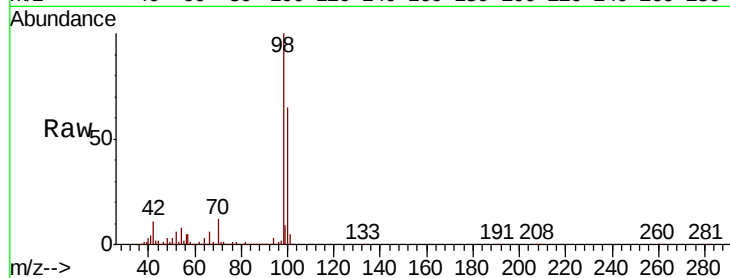
30699

Tot Ion: 98 Resp: 871214

Ion Ratio Lower Upper

98 100

100 65.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

400000

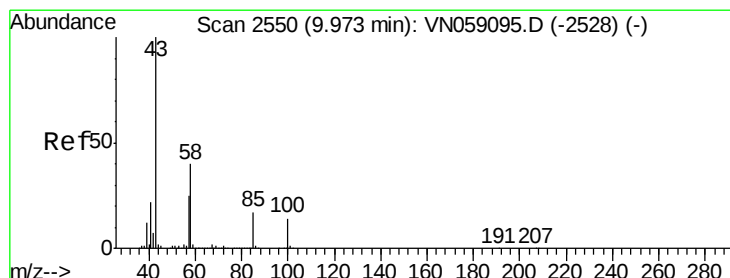
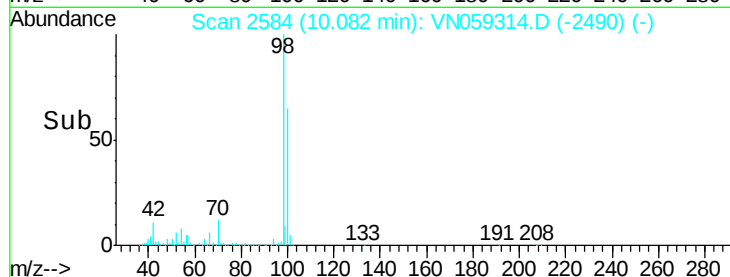
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 27.211 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059314.D

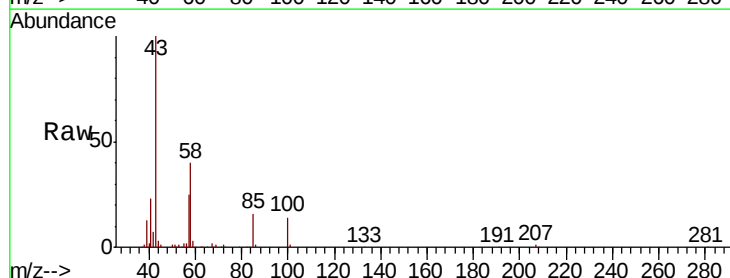
Acq: 19 Nov 2019 18:42

Tgt Ion: 43 Resp: 182355

Ion Ratio Lower Upper

43 100

58 41.0 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

120000

100000

80000

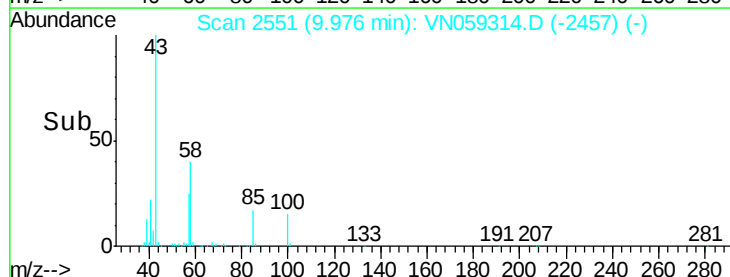
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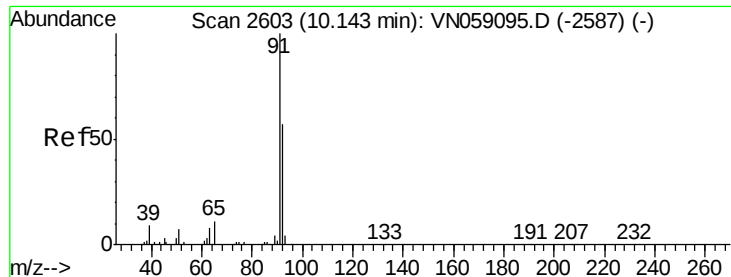
40000

20000

0

Time-->





#52

Toluene

Concen: 59.806 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

ClientSampleId :

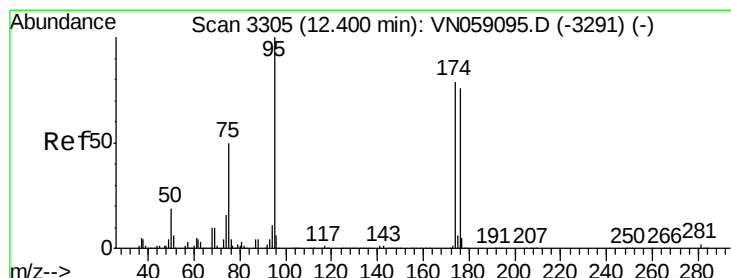
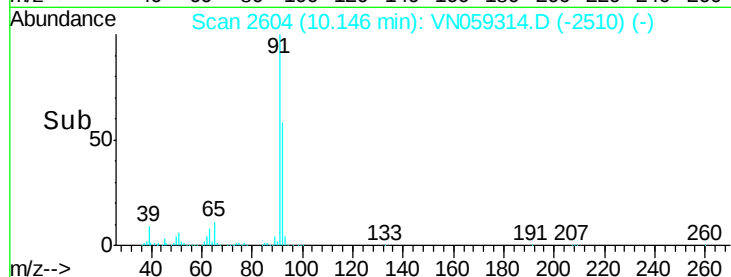
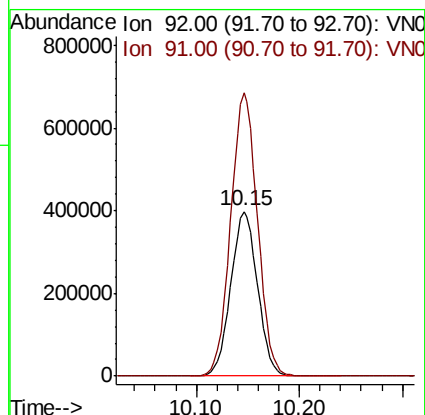
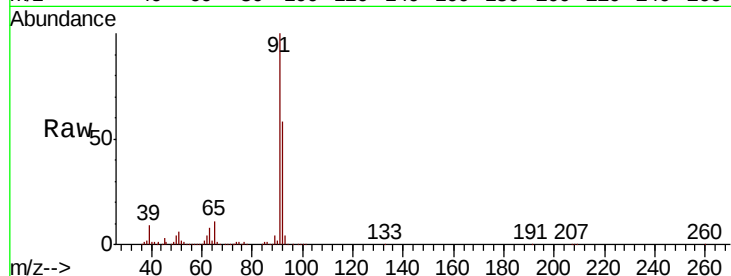
30699

Tot Ion: 92 Resp: 720858

Ion Ratio Lower Upper

92 100

91 172.2 139.5 209.3



#62

4-Bromofluorobenzene

Concen: 51.537 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

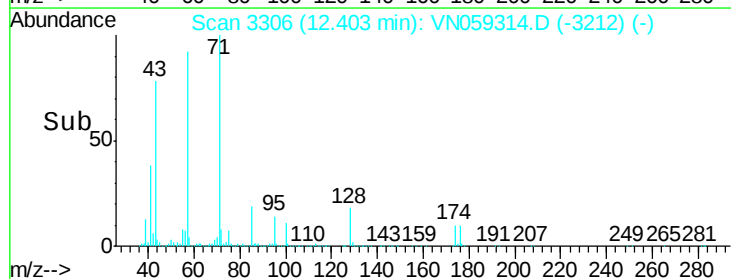
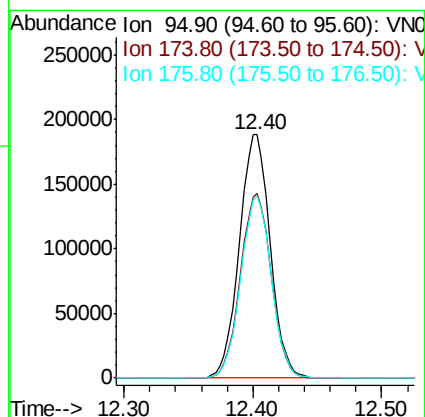
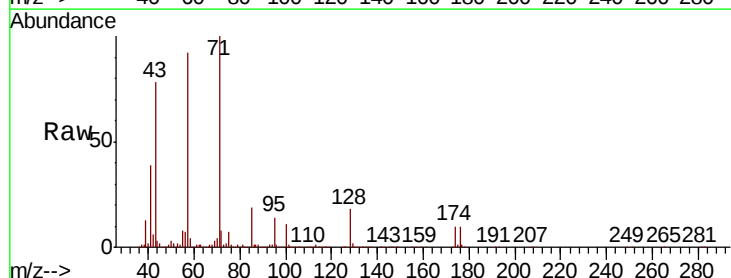
Tgt Ion: 95 Resp: 312243

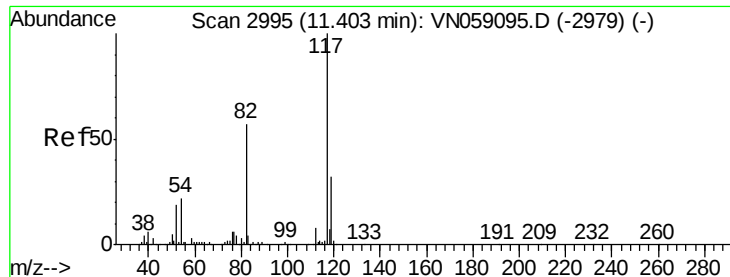
Ion Ratio Lower Upper

95 100

174 76.1 0.0 158.2

176 74.7 0.0 151.8

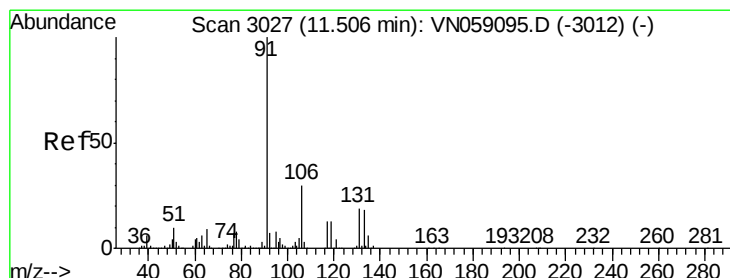
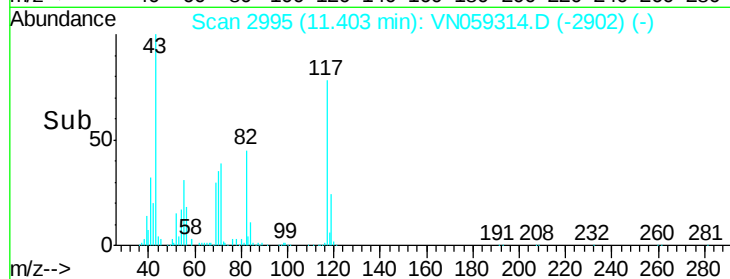
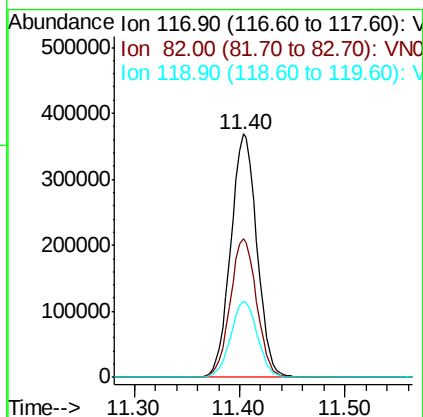
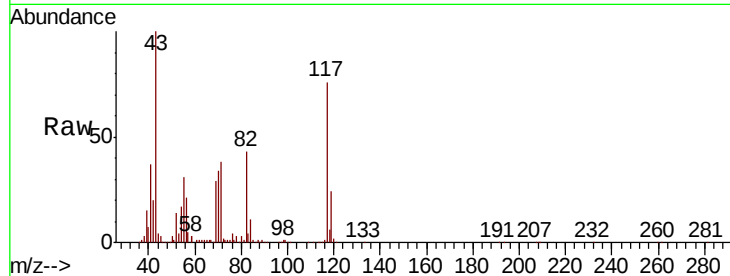




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

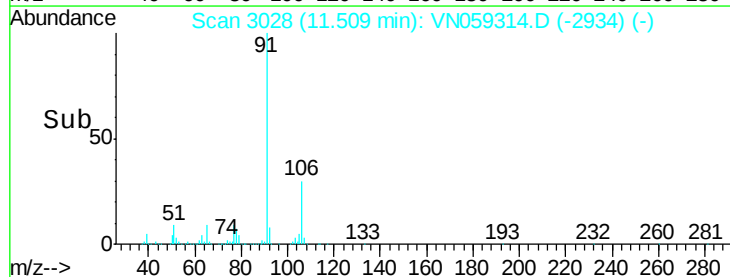
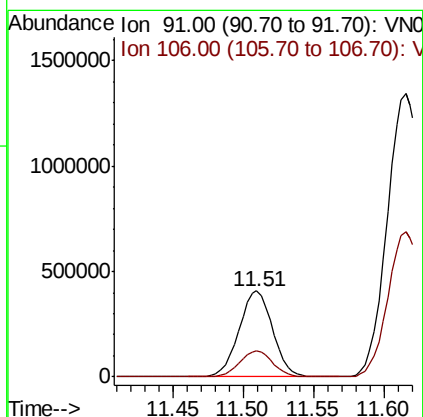
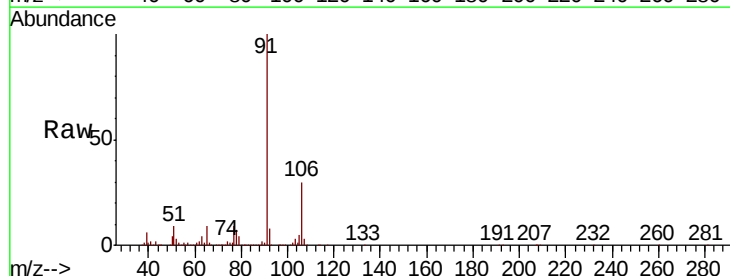
Instrument :
MSVOA_N
ClientSampled :
30699

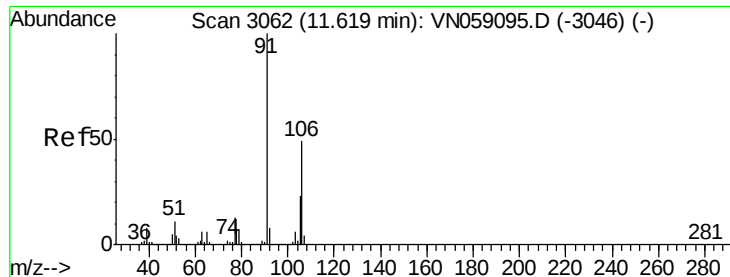
Tot Ion:117 Resp: 631778
Ion Ratio Lower Upper
117 100
82 57.2 45.8 68.8
119 31.2 25.8 38.6



#67
Ethyl Benzene
Concen: 31.114 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

Tgt Ion: 91 Resp: 679880
Ion Ratio Lower Upper
91 100
106 30.3 24.1 36.1

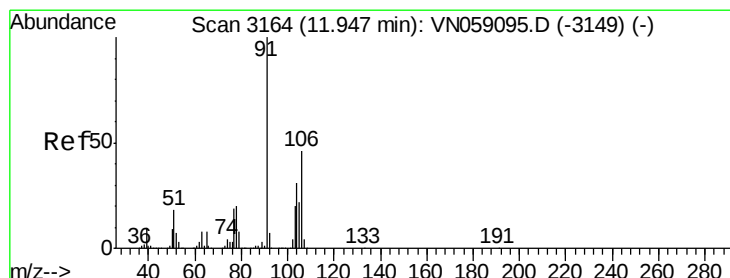
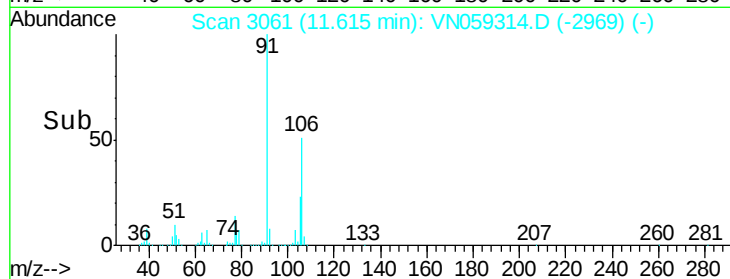
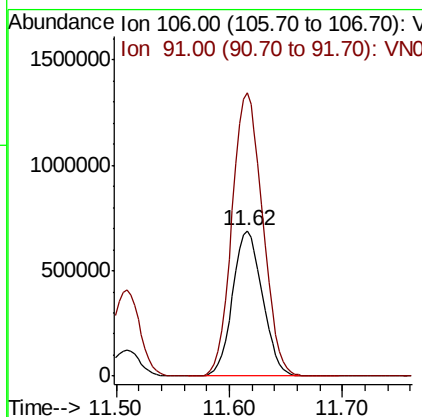
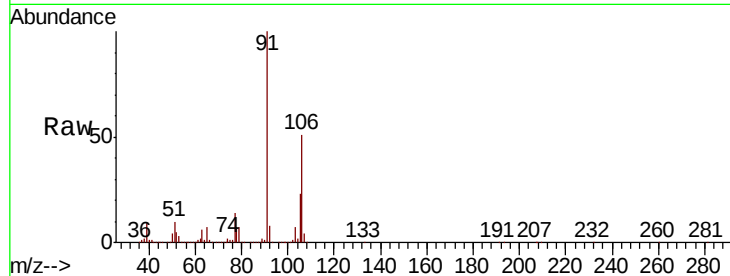




#68
m/p-Xylenes
Concen: 154.857 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

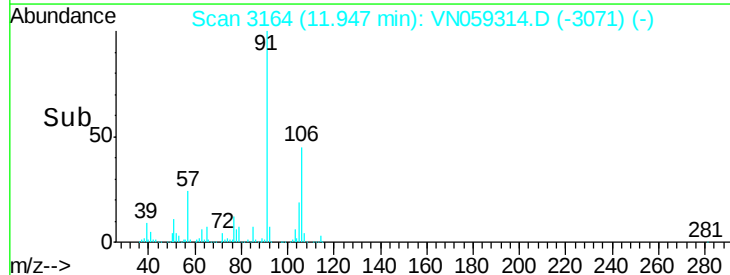
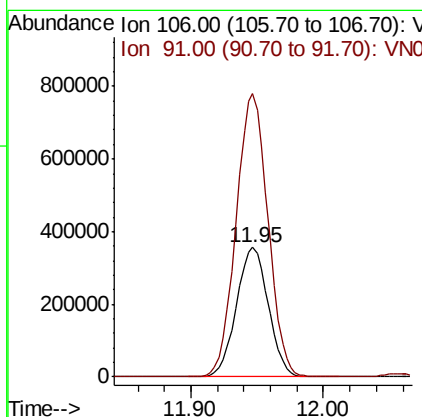
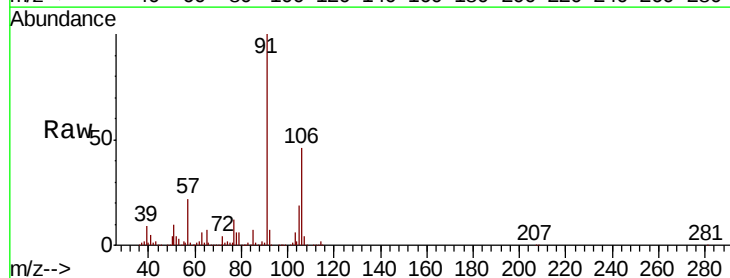
Instrument :
MSVOA_N
ClientSampled :
30699

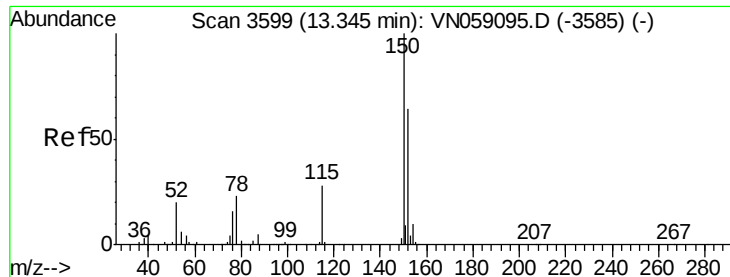
Tot Ion:106 Resp: 1267527
Ion Ratio Lower Upper
106 100
91 199.8 164.7 247.1



#69
o-Xylene
Concen: 75.278 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059314.D
Acq: 19 Nov 2019 18:42

Tgt Ion:106 Resp: 595459
Ion Ratio Lower Upper
106 100
91 218.3 110.1 330.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

ClientSampled :

30699

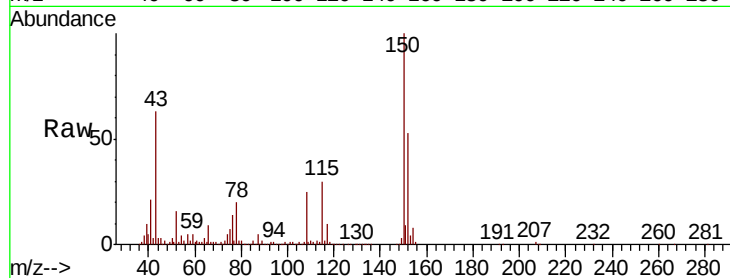
Tot Ion:152 Resp: 292914

Ion Ratio Lower Upper

152 100

115 57.1 29.4 88.2

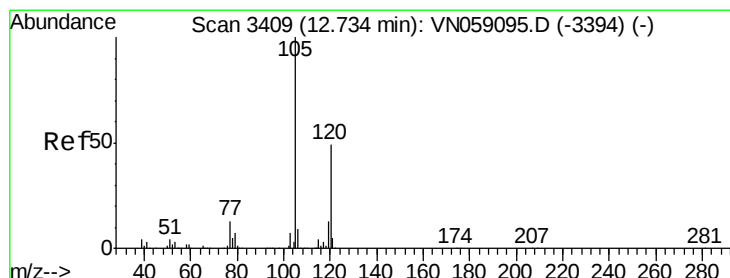
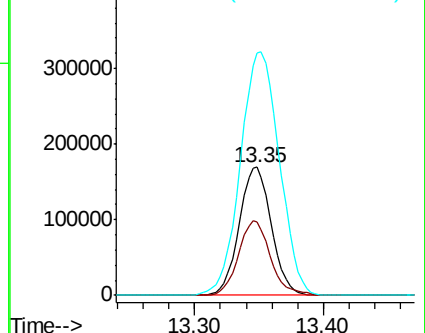
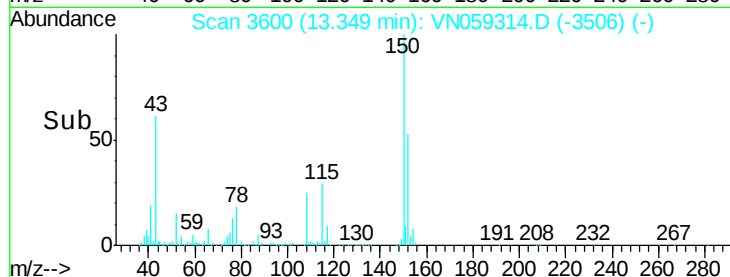
150 230.8 0.0 345.8



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: 2.792 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059314.D

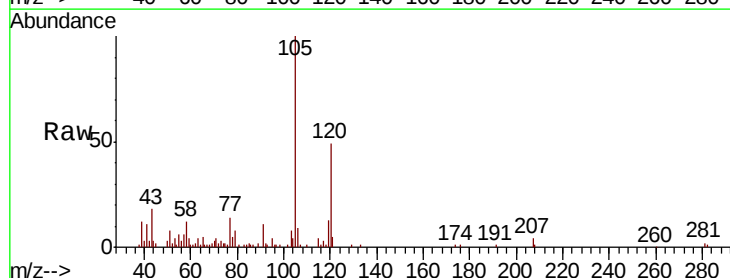
Acq: 19 Nov 2019 18:42

Tgt Ion:105 Resp: 50413

Ion Ratio Lower Upper

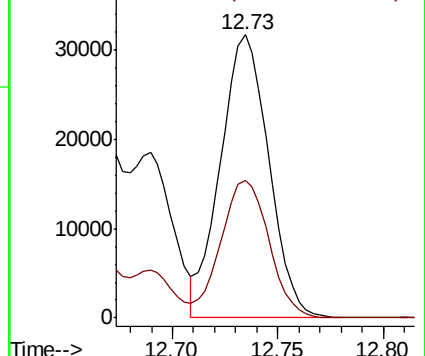
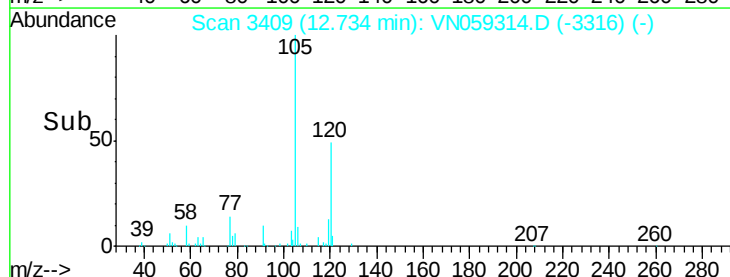
105 100

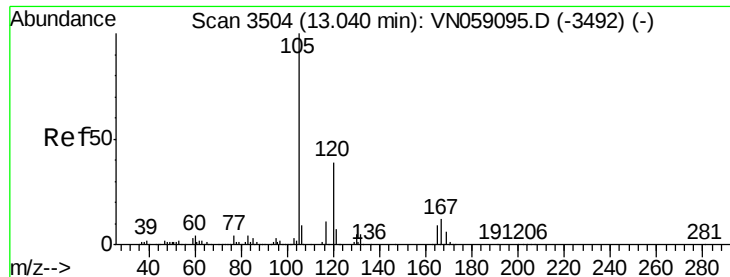
120 48.2 24.0 72.0



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: 11.400 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Instrument :

MSVOA_N

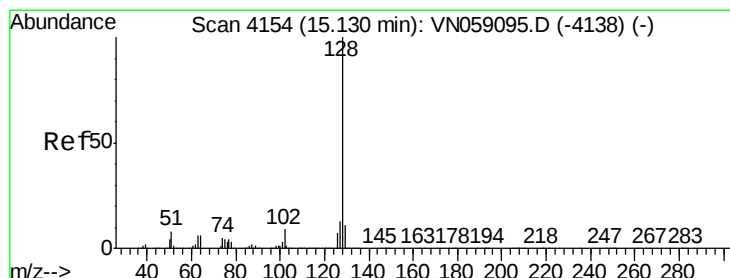
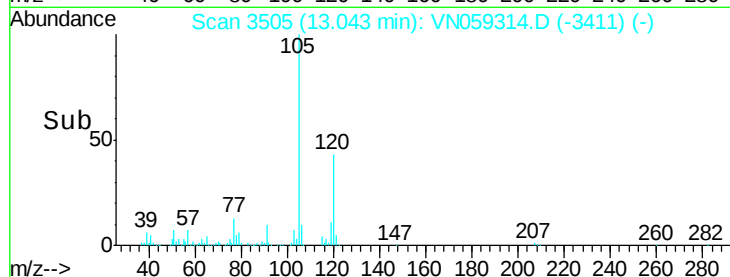
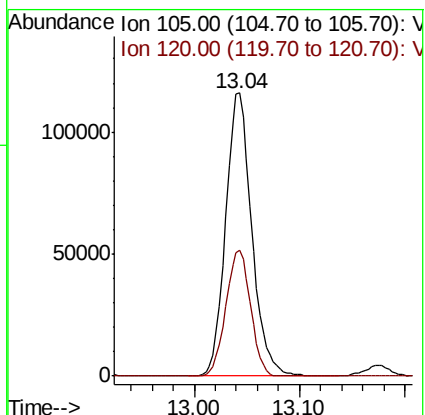
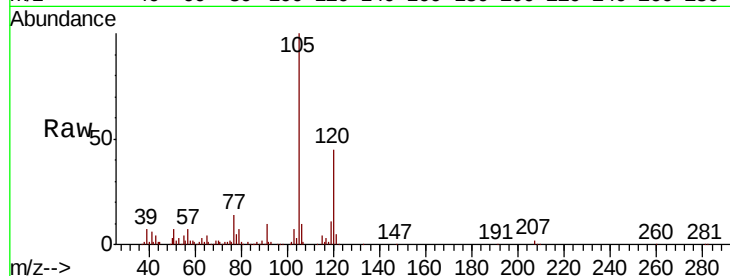
ClientSampleId :
30699

Tot Ion:105 Resp: 199120

Ion Ratio Lower Upper

105 100

120 41.6 22.8 68.4



#95

Naphthalene

Concen: 12.198 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059314.D

Acq: 19 Nov 2019 18:42

Tgt Ion:128 Resp: 147950

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 11.7 8.6 12.8

