

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121719\
 Data File : VN059641.D
 Acq On : 17 Dec 2019 21:22
 Operator : JC/SP
 Sample : K6309-02 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30785

Quant Time: Dec 18 06:57:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	234104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	380643	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	344051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148220	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	168861	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	7.57	113	119863	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	10.08	98	469298	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	12.40	95	167387	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	

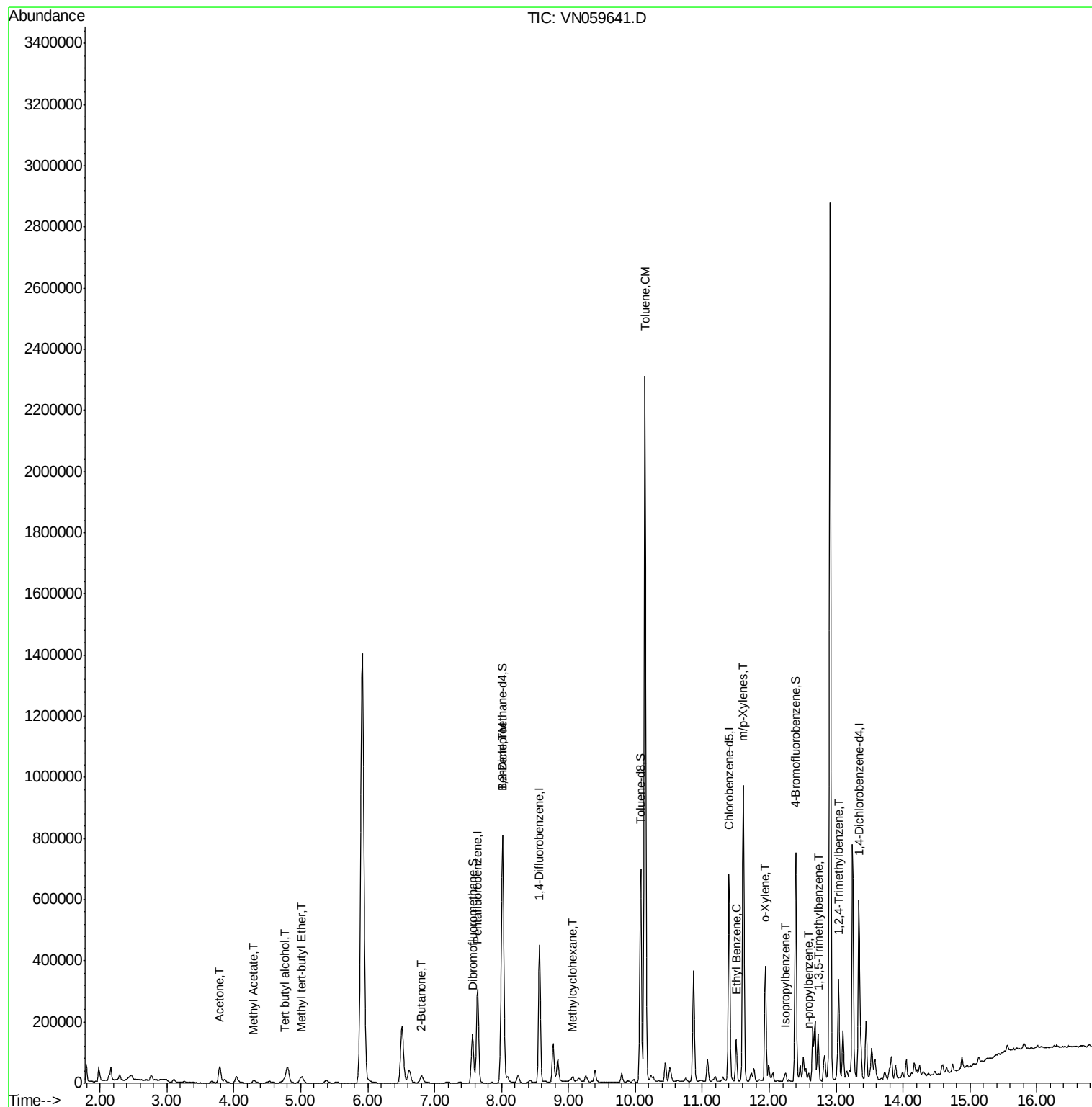
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	26088	41.772	ug/l #	88
16) Acetone	3.79	43	88967	43.989	ug/l	98
18) Methyl Acetate	4.30	43	17645	4.164	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	29270	3.376	ug/l #	81
25) 2-Butanone	6.81	43	24583	10.164	ug/l	98
39) Methylcyclohexane	9.07	83	6761	1.502	ug/l	89
40) Benzene	8.02	78	698944	60.251	ug/l	99
52) Toluene	10.14	92	989105	138.767	ug/l	98
67) Ethyl Benzene	11.51	91	97857	7.282	ug/l	99
68) m/p-Xylenes	11.61	106	285526	57.542	ug/l	99
69) o-Xylene	11.94	106	99516	21.078	ug/l	99
73) Isopropylbenzene	12.25	105	18526	1.592	ug/l	96
78) n-propylbenzene	12.59	91	18122	1.318	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	80318	8.157	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	181012	18.488	ug/l	100

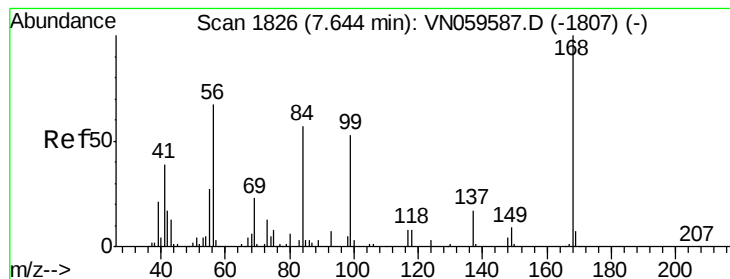
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampled :

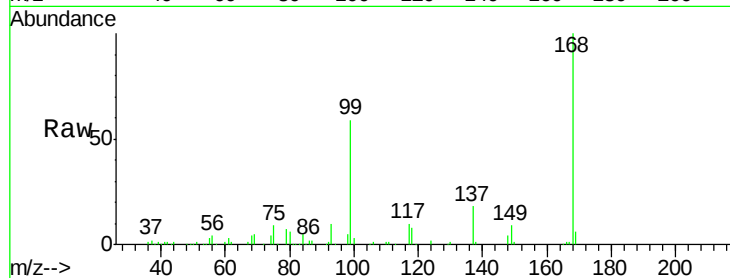
30785

Tot Ion:168 Resp: 234104

Ion Ratio Lower Upper

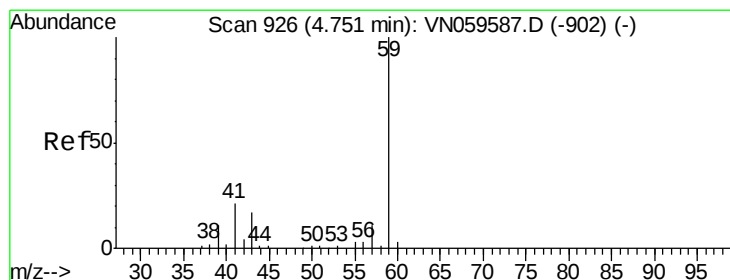
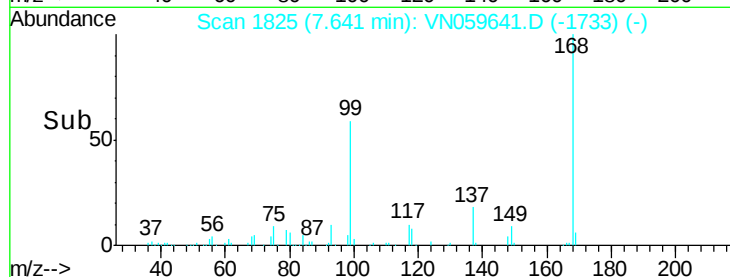
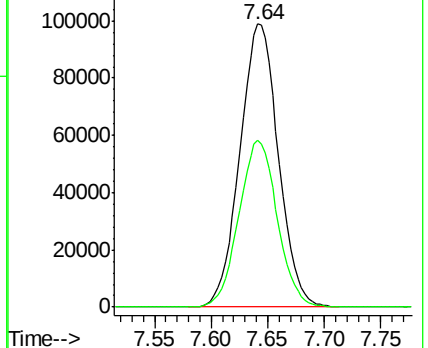
168 100

99 59.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 41.772 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN059641.D

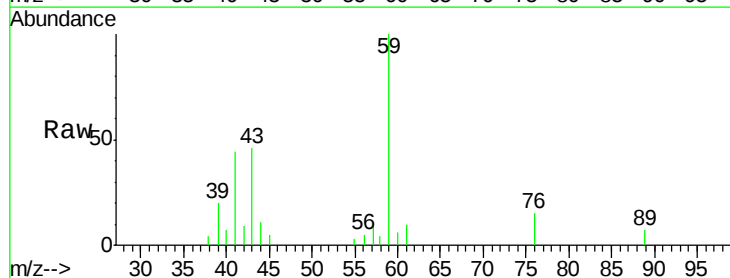
Acq: 17 Dec 2019 21:22

Tgt Ion: 59 Resp: 26088

Ion Ratio Lower Upper

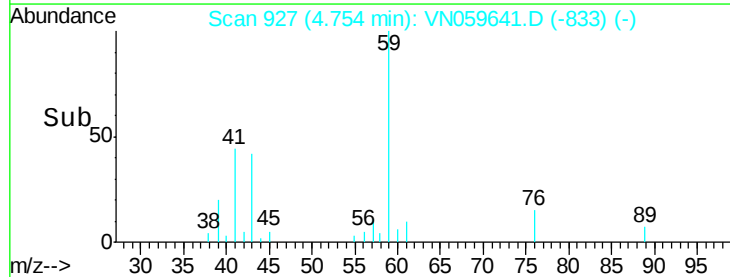
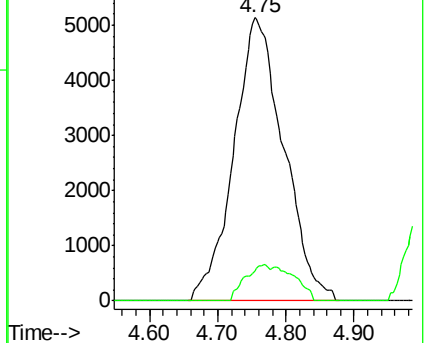
59 100

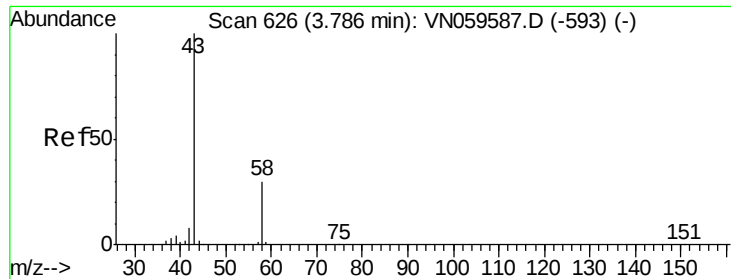
57 6.2 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 43.989 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

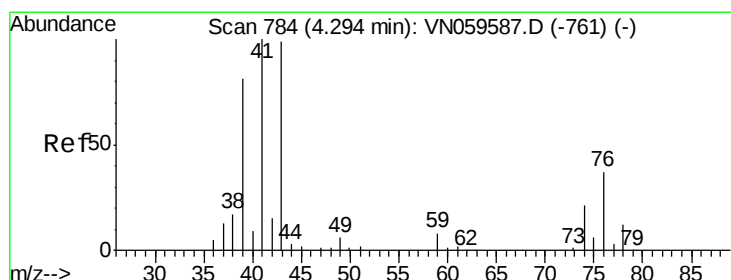
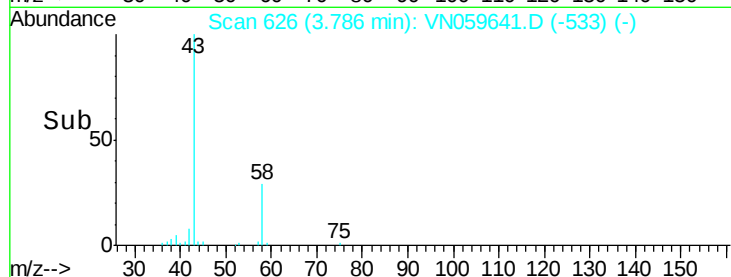
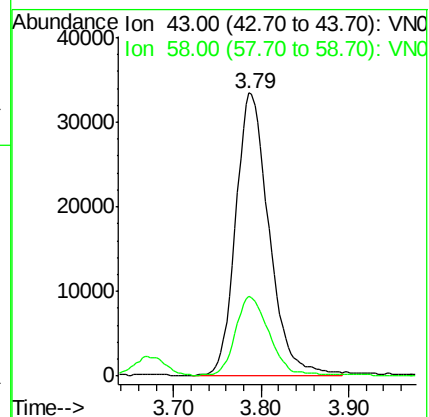
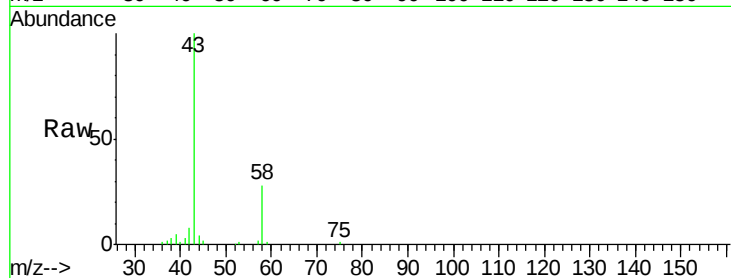
30785

Tot Ion: 43 Resp: 88967

Ion Ratio Lower Upper

43 100

58 28.4 23.6 35.4



#18

Methyl Acetate

Concen: 4.164 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059641.D

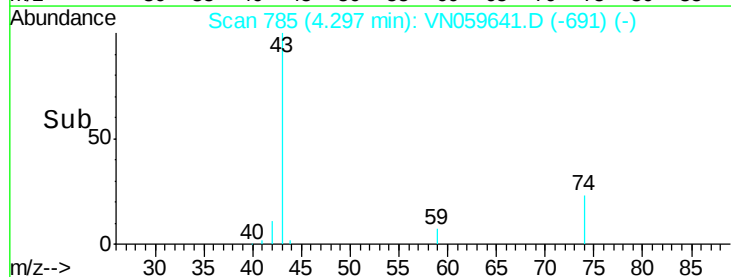
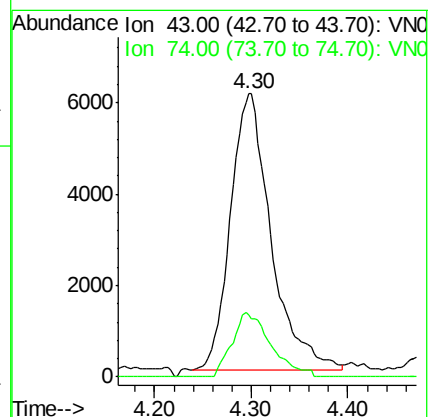
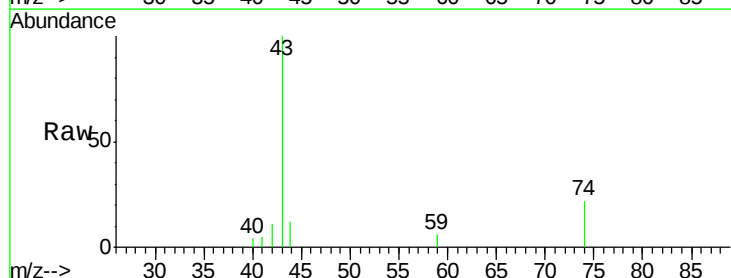
Acq: 17 Dec 2019 21:22

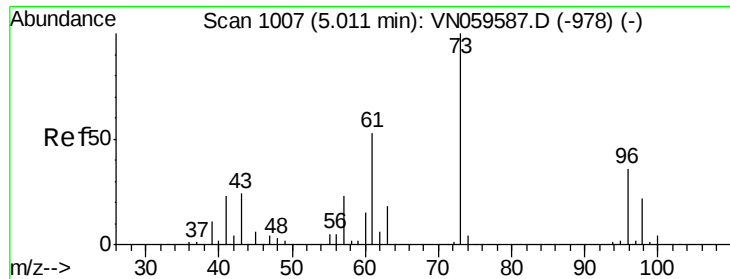
Tgt Ion: 43 Resp: 17645

Ion Ratio Lower Upper

43 100

74 22.3 17.5 26.3

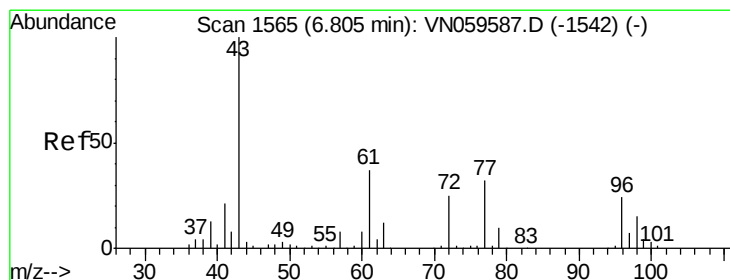
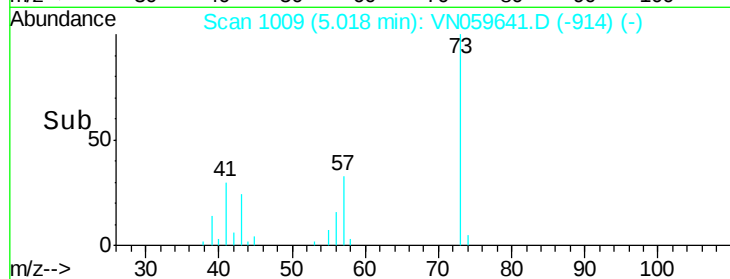
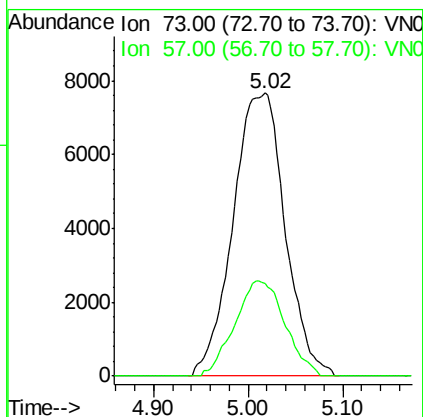
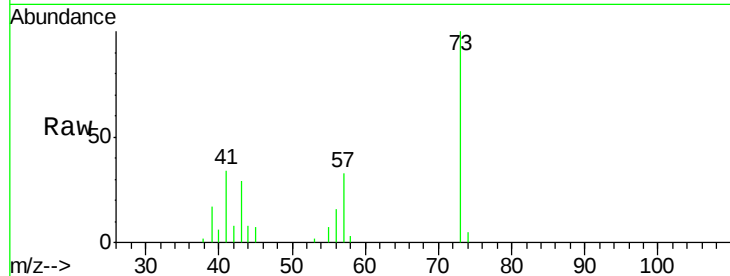




#19
Methvl tert-butvl Ether
Concen: 3.376 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.01 min
Lab File: VN059641.D
Acq: 17 Dec 2019 21:22

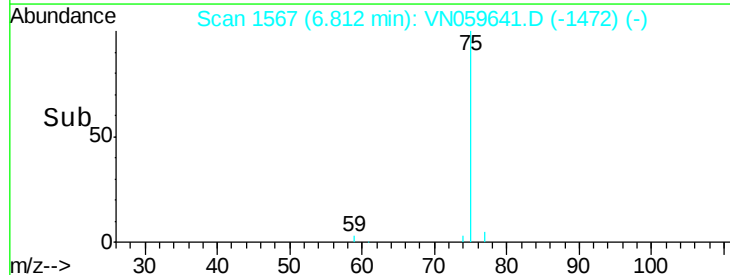
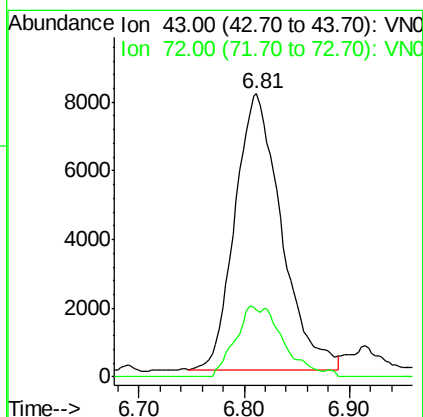
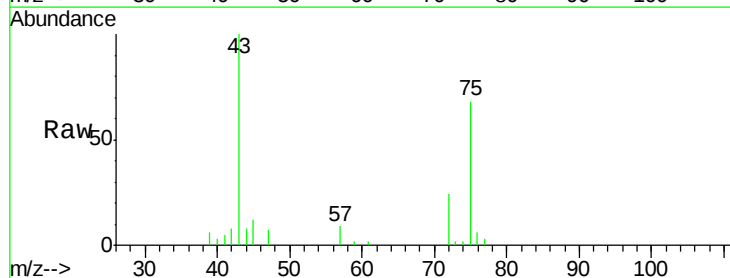
Instrument :
MSVOA_N
ClientSampleId :
30785

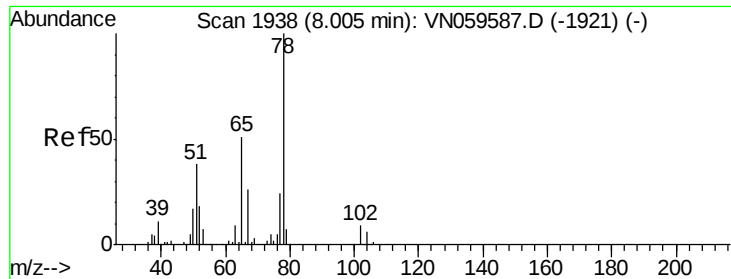
Tot Ion: 73 Resp: 29270
Ion Ratio Lower Upper
73 100
57 32.6 18.6 27.8#



#25
2-Butanone
Concen: 10.164 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059641.D
Acq: 17 Dec 2019 21:22

Tgt Ion: 43 Resp: 24583
Ion Ratio Lower Upper
43 100
72 24.1 19.9 29.9





#33

1,2-Dichloroethane-d4

Concen: 49.569 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

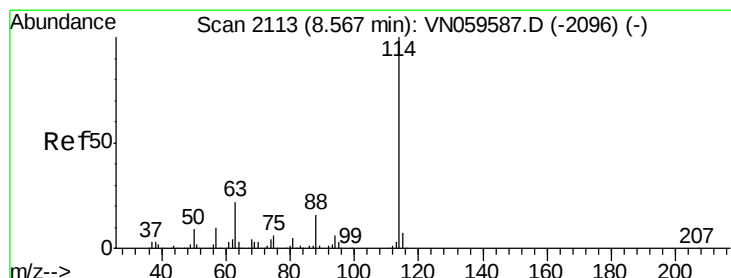
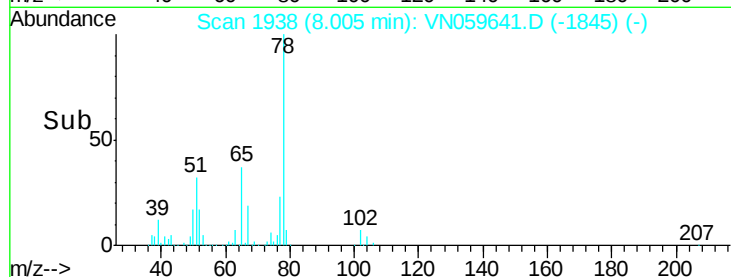
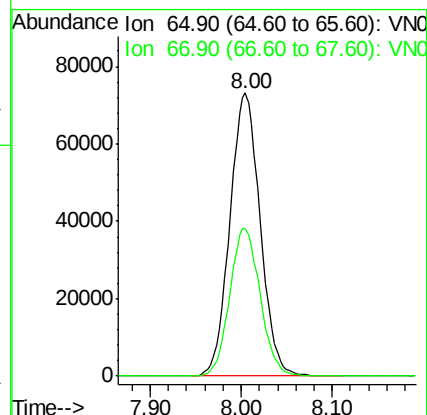
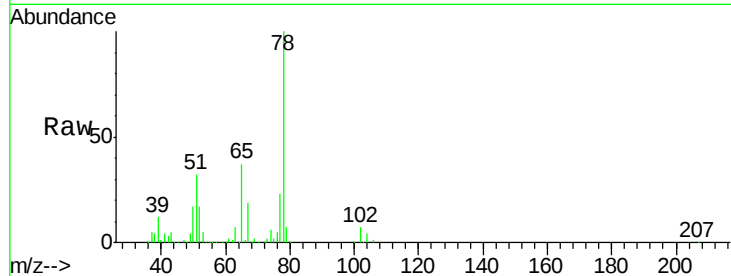
30785

Tot Ion: 65 Resp: 168861

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

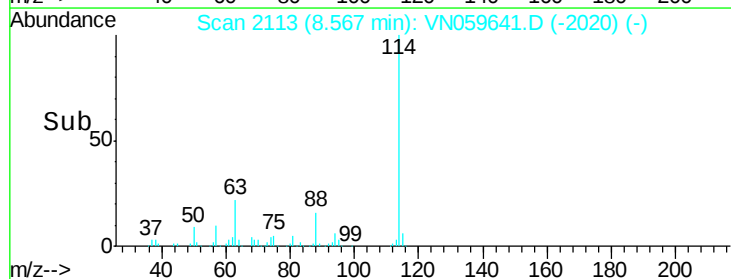
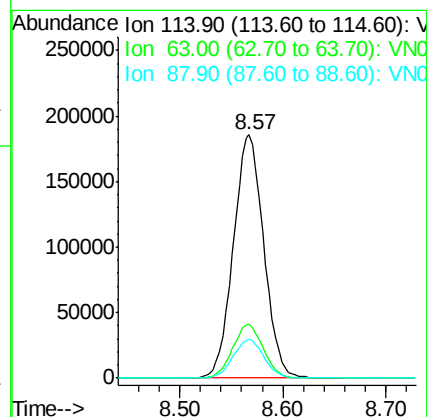
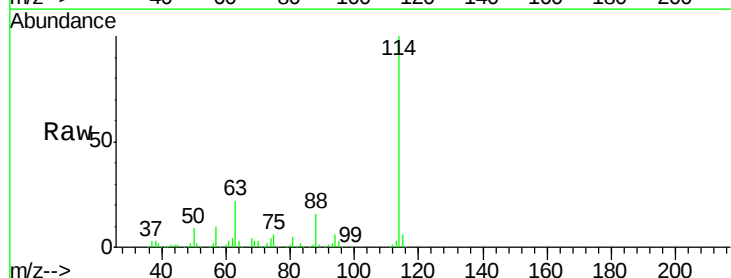
Tgt Ion: 114 Resp: 380643

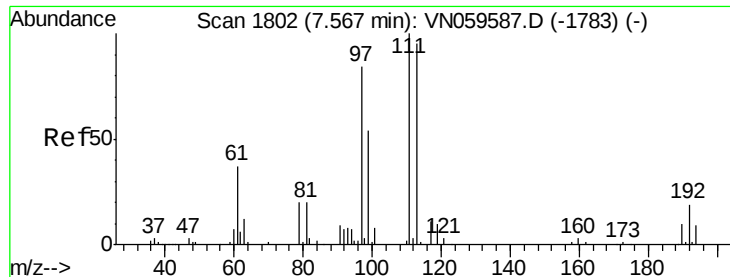
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.6

88 16.0 0.0 31.4

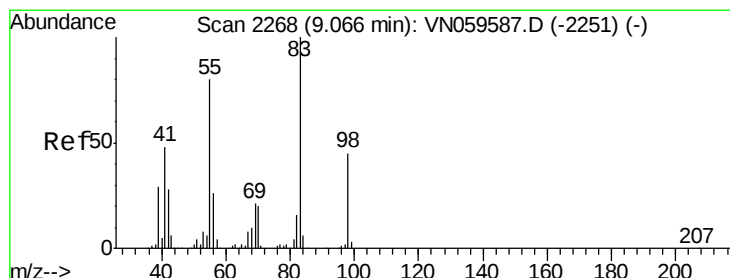
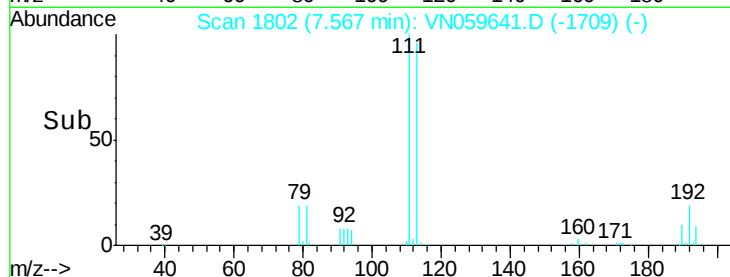
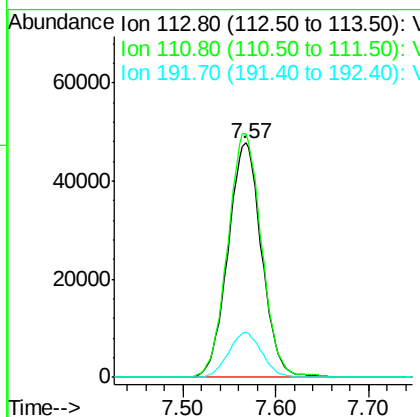
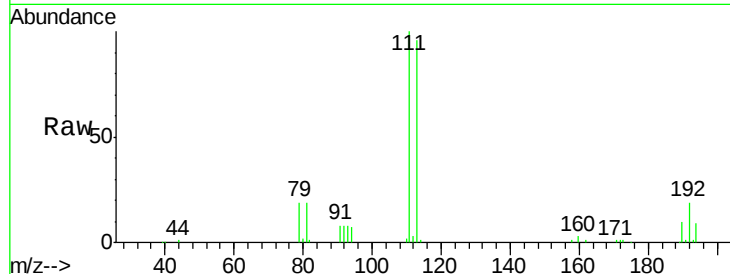




#35
 Dibromofluoromethane
 Concen: 50.328 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059641.D
 Acq: 17 Dec 2019 21:22

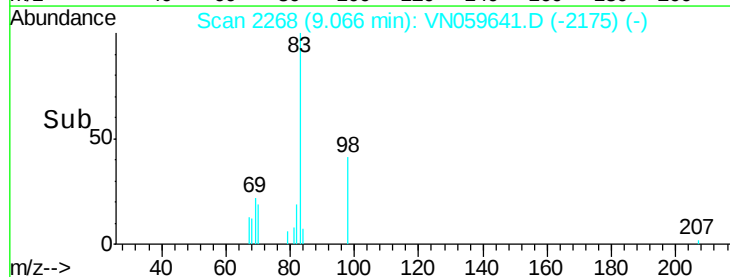
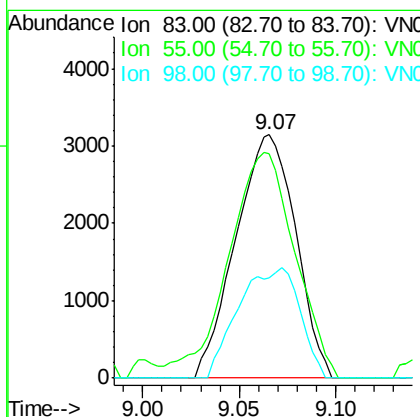
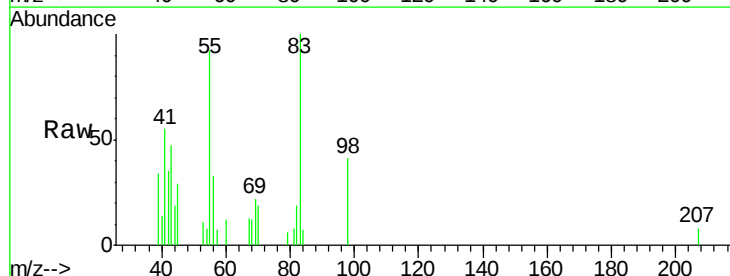
Instrument :
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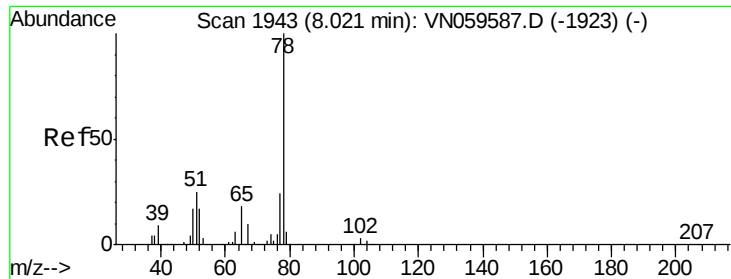
Tot Ion:113 Resp: 119863
 Ion Ratio Lower Upper
 113 100
 111 104.3 83.5 125.3
 192 19.1 15.4 23.2



#39
 Methylcyclohexane
 Concen: 1.502 ug/l
 RT: 9.07 min Scan# 2268
 Delta R.T. 0.00 min
 Lab File: VN059641.D
 Acq: 17 Dec 2019 21:22

Tgt Ion: 83 Resp: 6761
 Ion Ratio Lower Upper
 83 100
 55 92.2 64.2 96.2
 98 41.2 35.9 53.9





#40

Benzene

Concen: 60.251 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

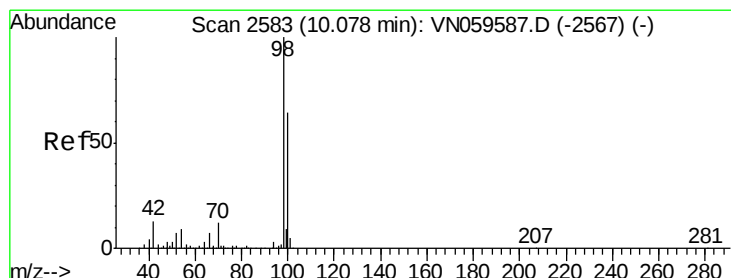
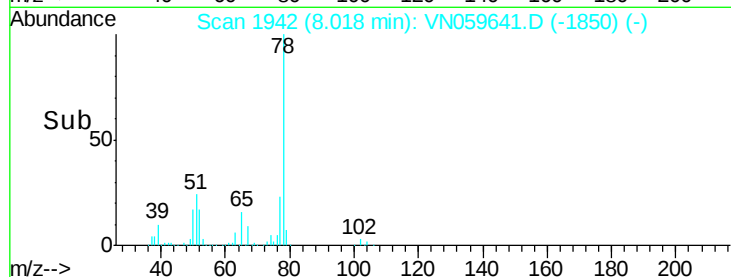
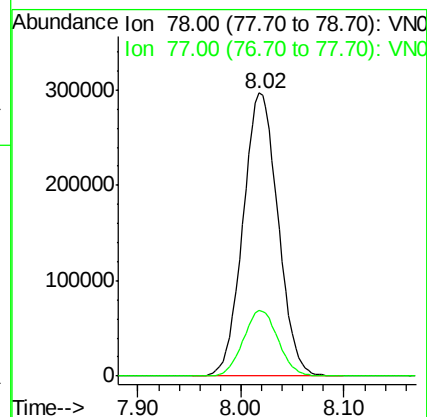
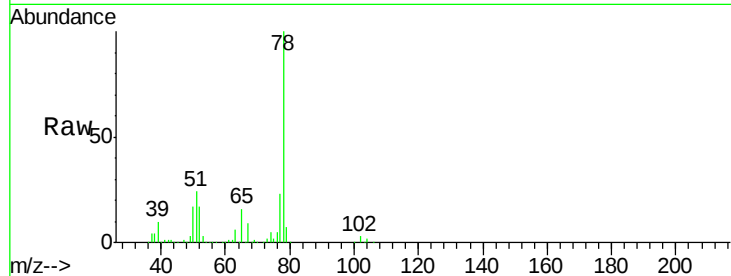
30785

Tot Ion: 78 Resp: 698944

Ion Ratio Lower Upper

78 100

77 23.0 18.9 28.3



#50

Toluene-d8

Concen: 49.770 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059641.D

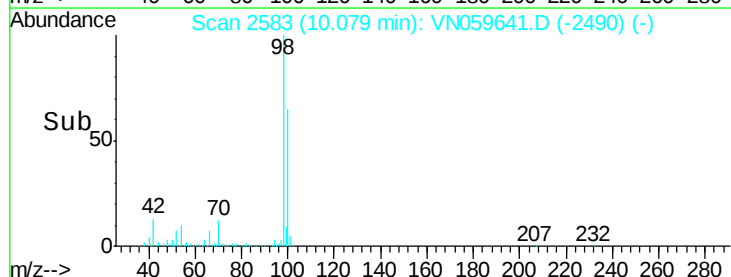
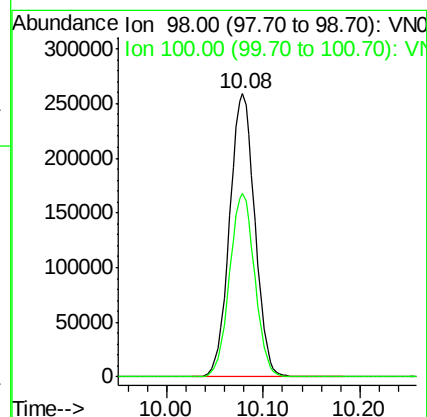
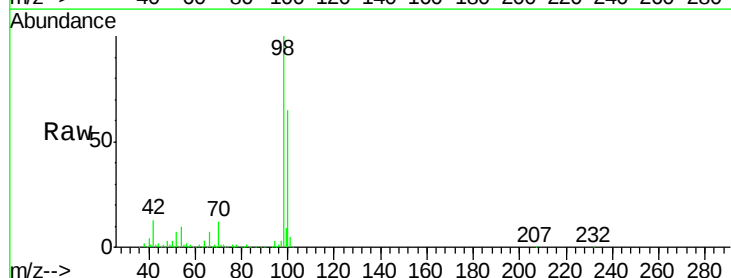
Acq: 17 Dec 2019 21:22

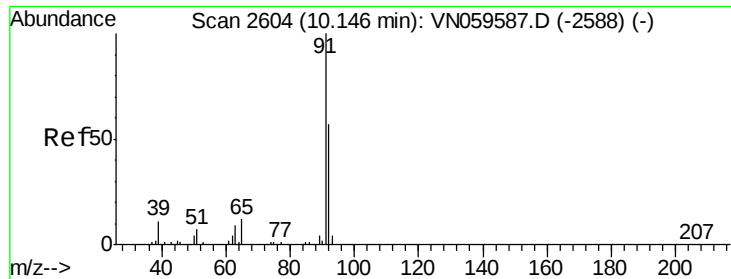
Tgt Ion: 98 Resp: 469298

Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8





#52

Toluene

Concen: 138.767 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

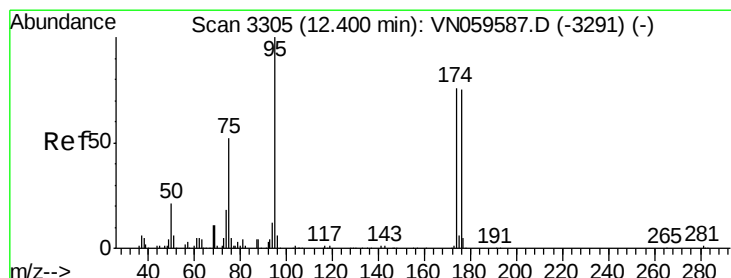
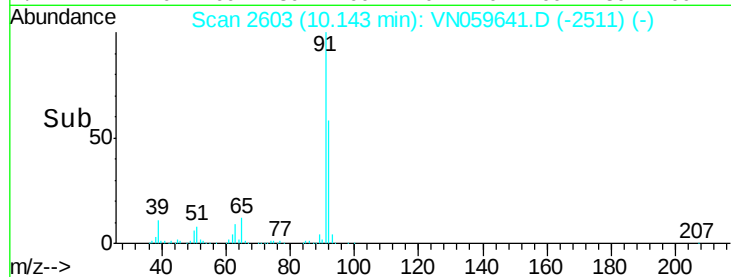
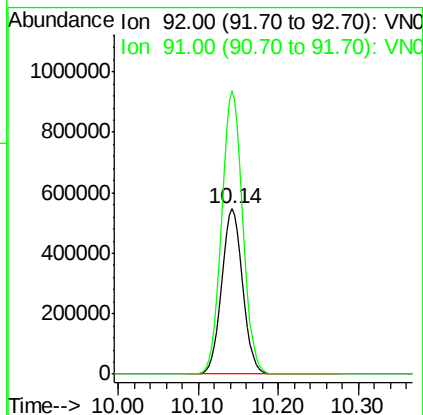
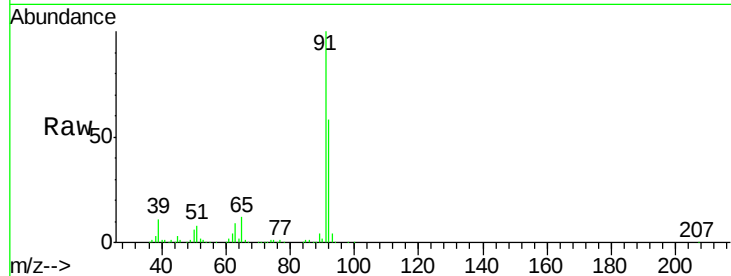
30785

Tot Ion: 92 Resp: 989105

Ion Ratio Lower Upper

92 100

91 172.5 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 48.650 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

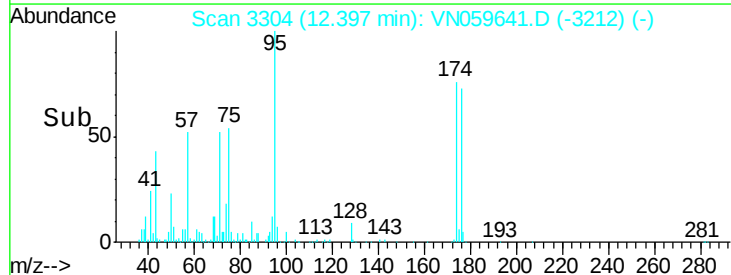
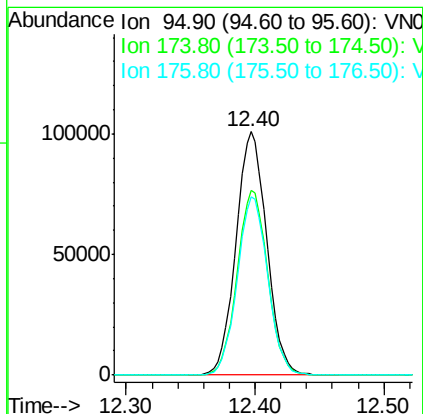
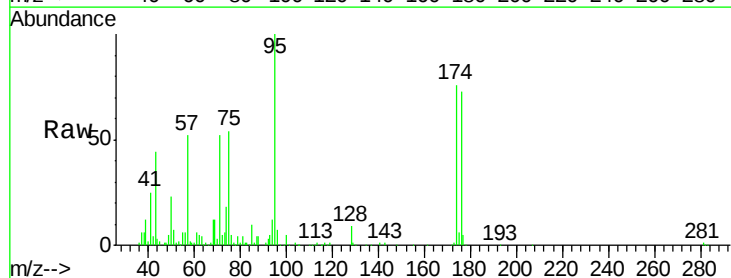
Tgt Ion: 95 Resp: 167387

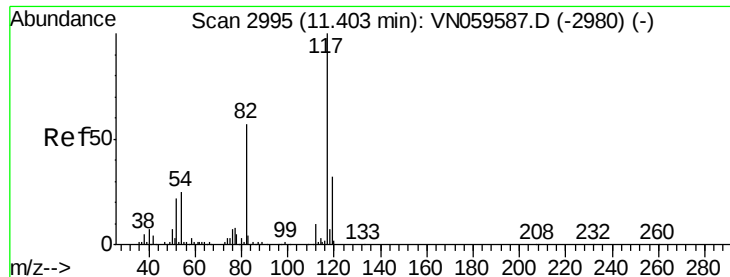
Ion Ratio Lower Upper

95 100

174 75.3 0.0 151.4

176 72.5 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampled :

30785

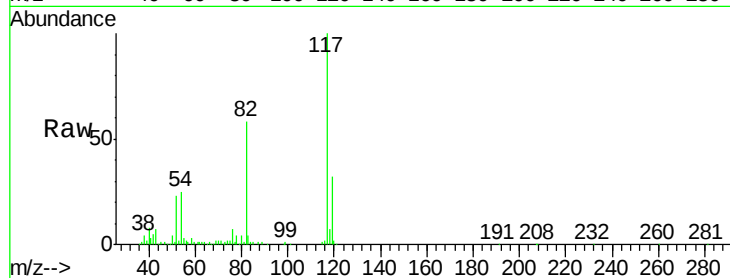
Tot Ion:117 Resp: 344051

Ion Ratio Lower Upper

117 100

82 57.8 45.9 68.9

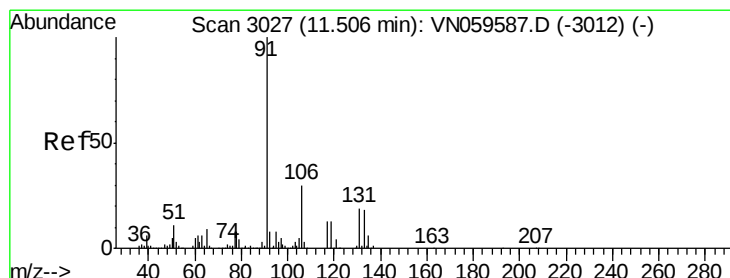
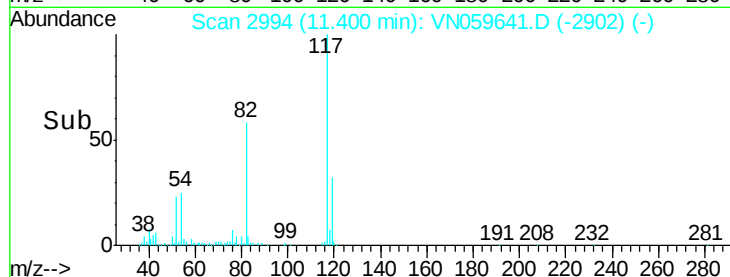
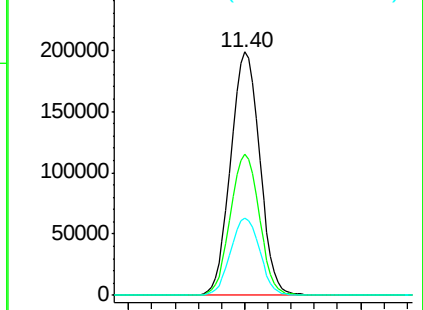
119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 7.282 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059641.D

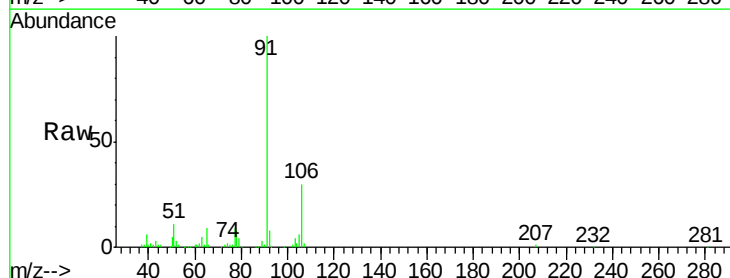
Acq: 17 Dec 2019 21:22

Tgt Ion: 91 Resp: 97857

Ion Ratio Lower Upper

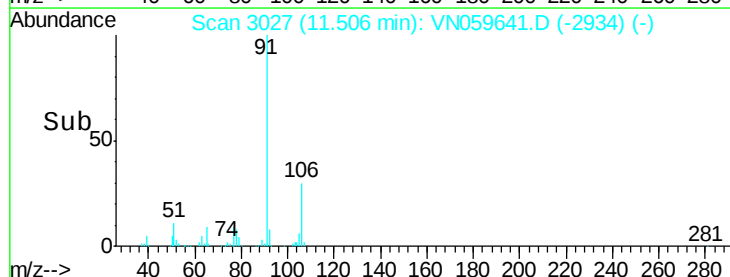
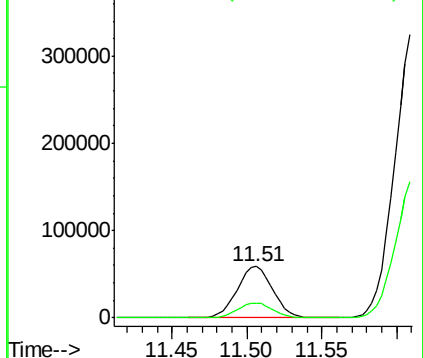
91 100

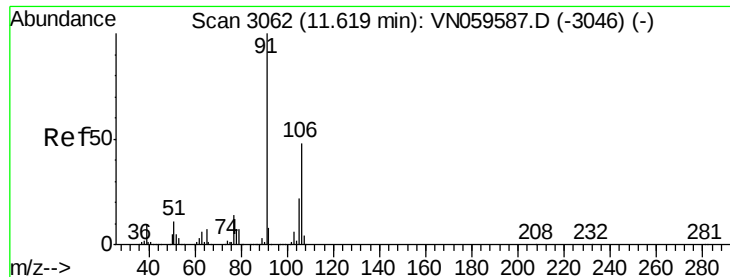
106 29.6 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

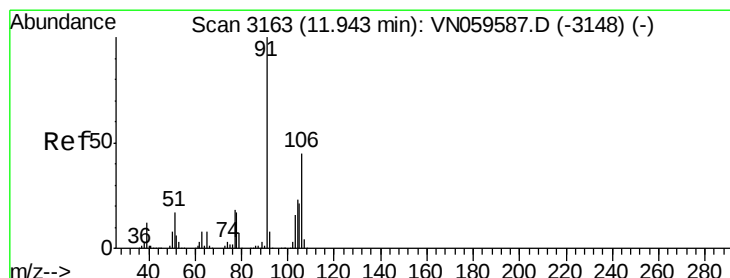
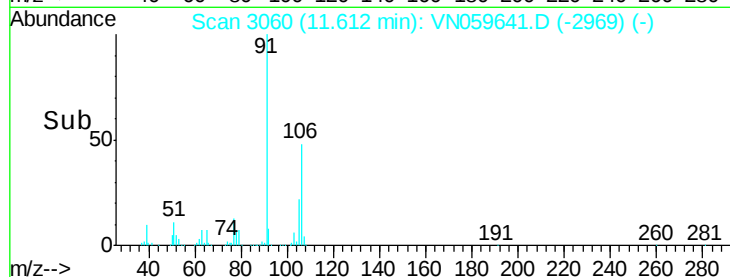
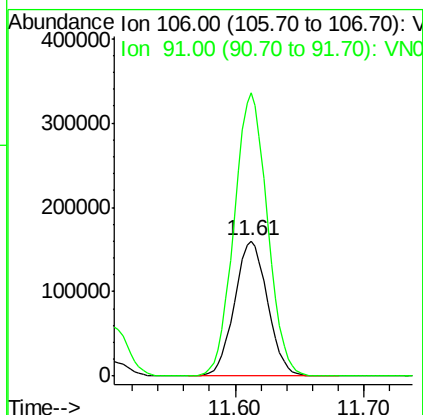
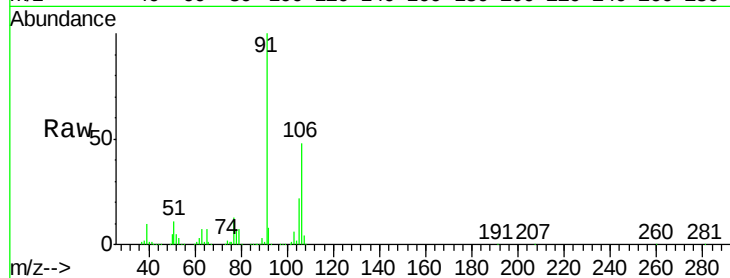




#68
m/p-Xylenes
Concen: 57.542 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.01 min
Lab File: VN059641.D
Acq: 17 Dec 2019 21:22

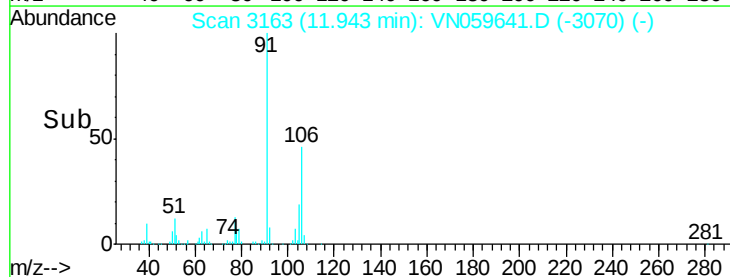
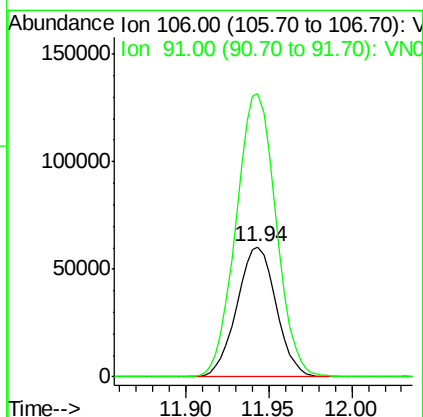
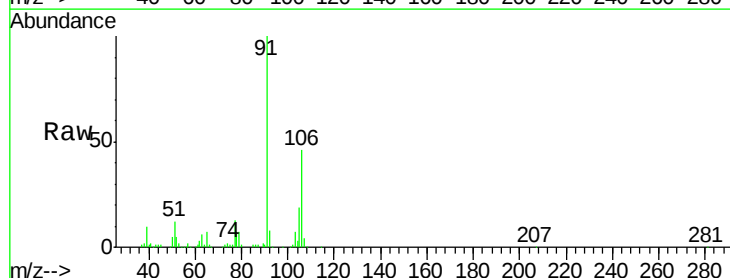
Instrument :
MSVOA_N
ClientSampleId :
30785

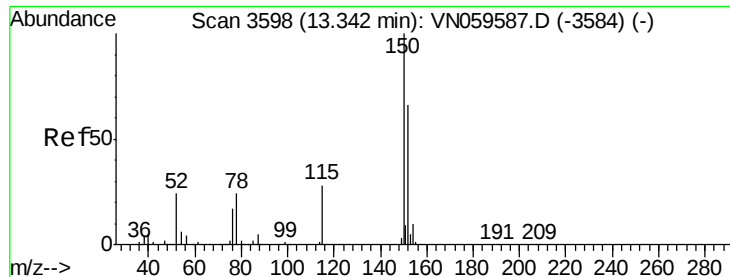
Tot Ion:106 Resp: 285526
Ion Ratio Lower Upper
106 100
91 211.1 167.9 251.9



#69
o-Xylene
Concen: 21.078 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059641.D
Acq: 17 Dec 2019 21:22

Tgt Ion:106 Resp: 99516
Ion Ratio Lower Upper
106 100
91 222.7 110.3 330.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

30785

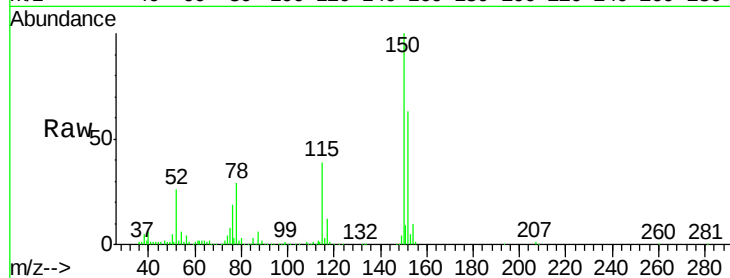
Tot Ion:152 Resp: 148220

Ion Ratio Lower Upper

152 100

115 63.0 30.3 90.9

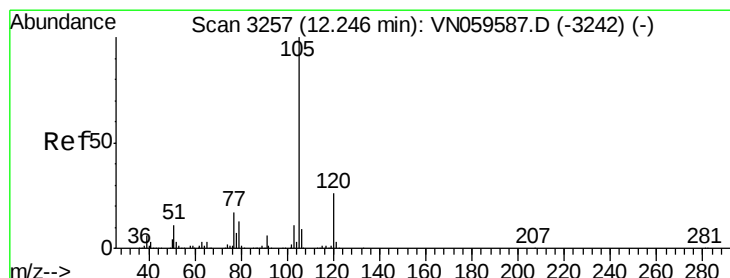
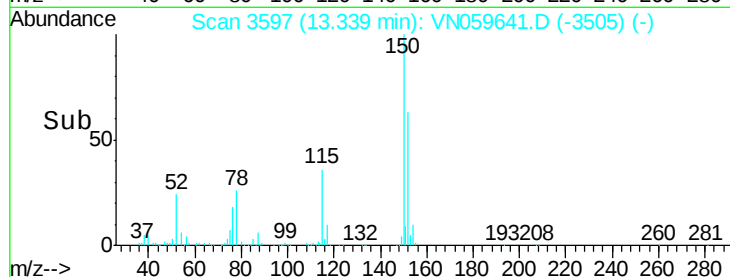
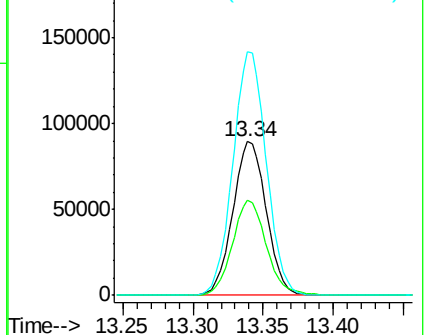
150 158.7 0.0 345.2



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: 1.592 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN059641.D

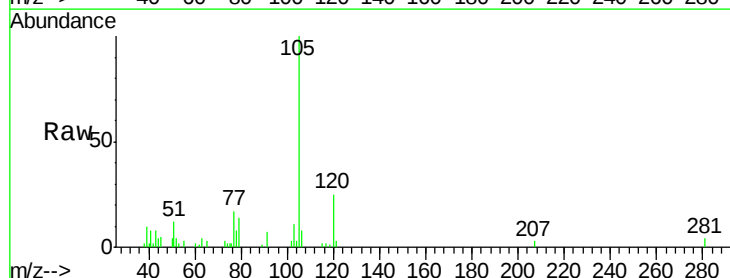
Acq: 17 Dec 2019 21:22

Tgt Ion:105 Resp: 18526

Ion Ratio Lower Upper

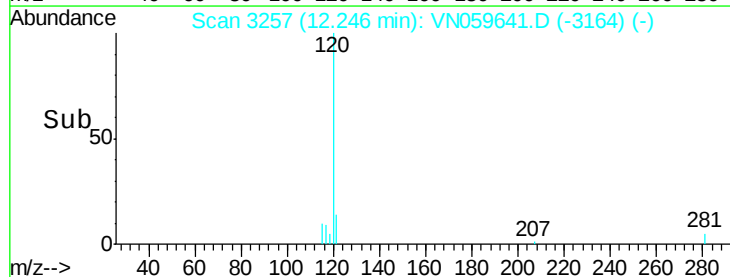
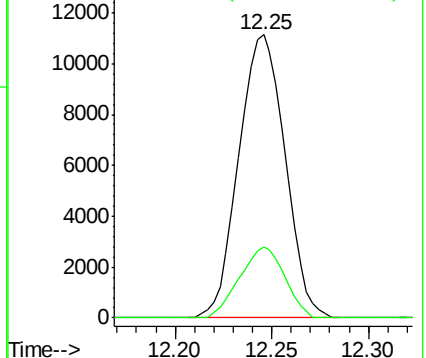
105 100

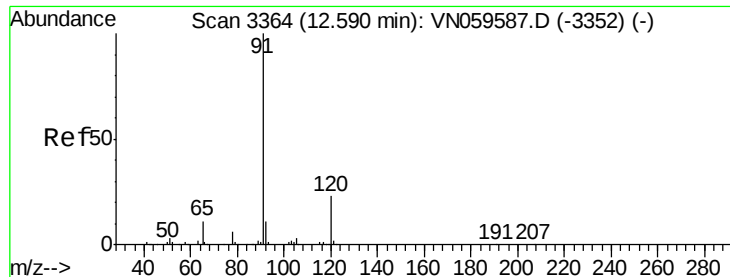
120 24.4 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.318 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampled :

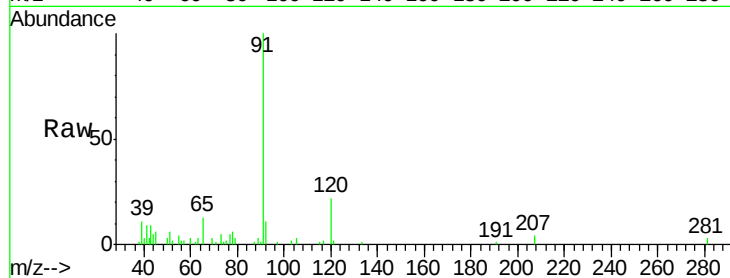
30785

Tot Ion: 91 Resp: 18122

Ion Ratio Lower Upper

91 100

120 23.4 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN059587.D (-3352) (-)

Ion 120.00 (119.70 to 120.70): VN059587.D (-3352) (-)

20000

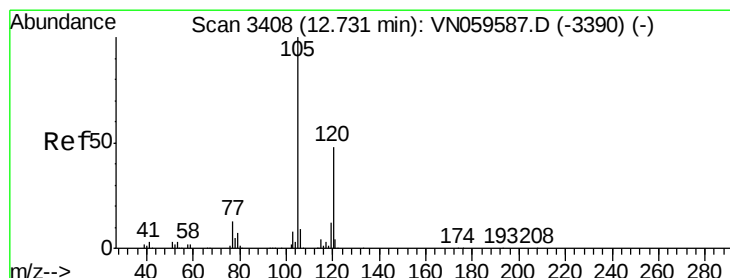
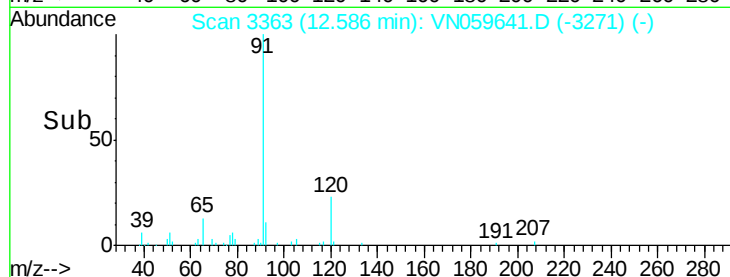
15000

10000

5000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 8.157 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN059641.D

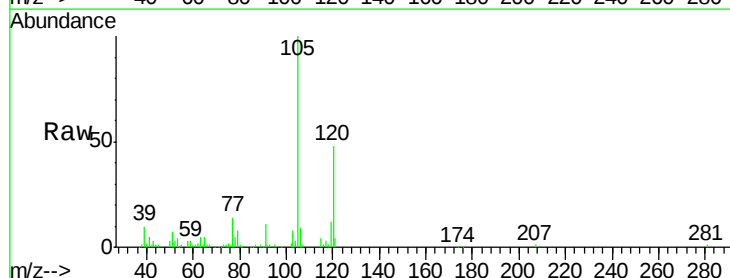
Acq: 17 Dec 2019 21:22

Tgt Ion: 105 Resp: 80318

Ion Ratio Lower Upper

105 100

120 48.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059587.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059587.D (-3390) (-)

60000

50000

40000

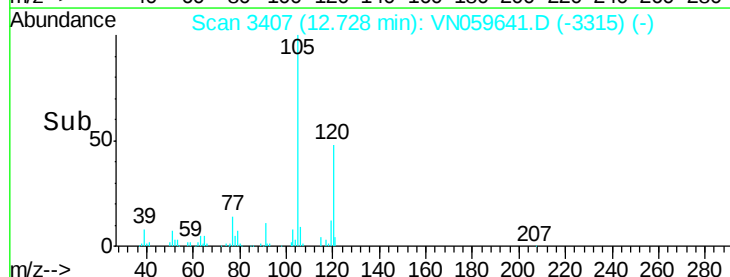
30000

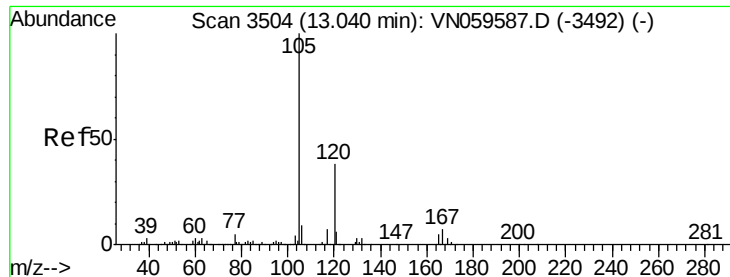
20000

10000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 18.488 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN059641.D

Acq: 17 Dec 2019 21:22

Instrument :

MSVOA_N

ClientSampleId :

30785

Tot Ion:105 Resp: 181012

Ion Ratio Lower Upper

105 100

120 44.4 22.3 66.9

