

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022219\
 Data File : VN053919.D
 Acq On : 22 Feb 2019 16:39
 Operator : JC/SP
 Sample : K1544-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 22 23:47:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	720517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1151915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1105339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	550812	50.00	ug/l	0.00

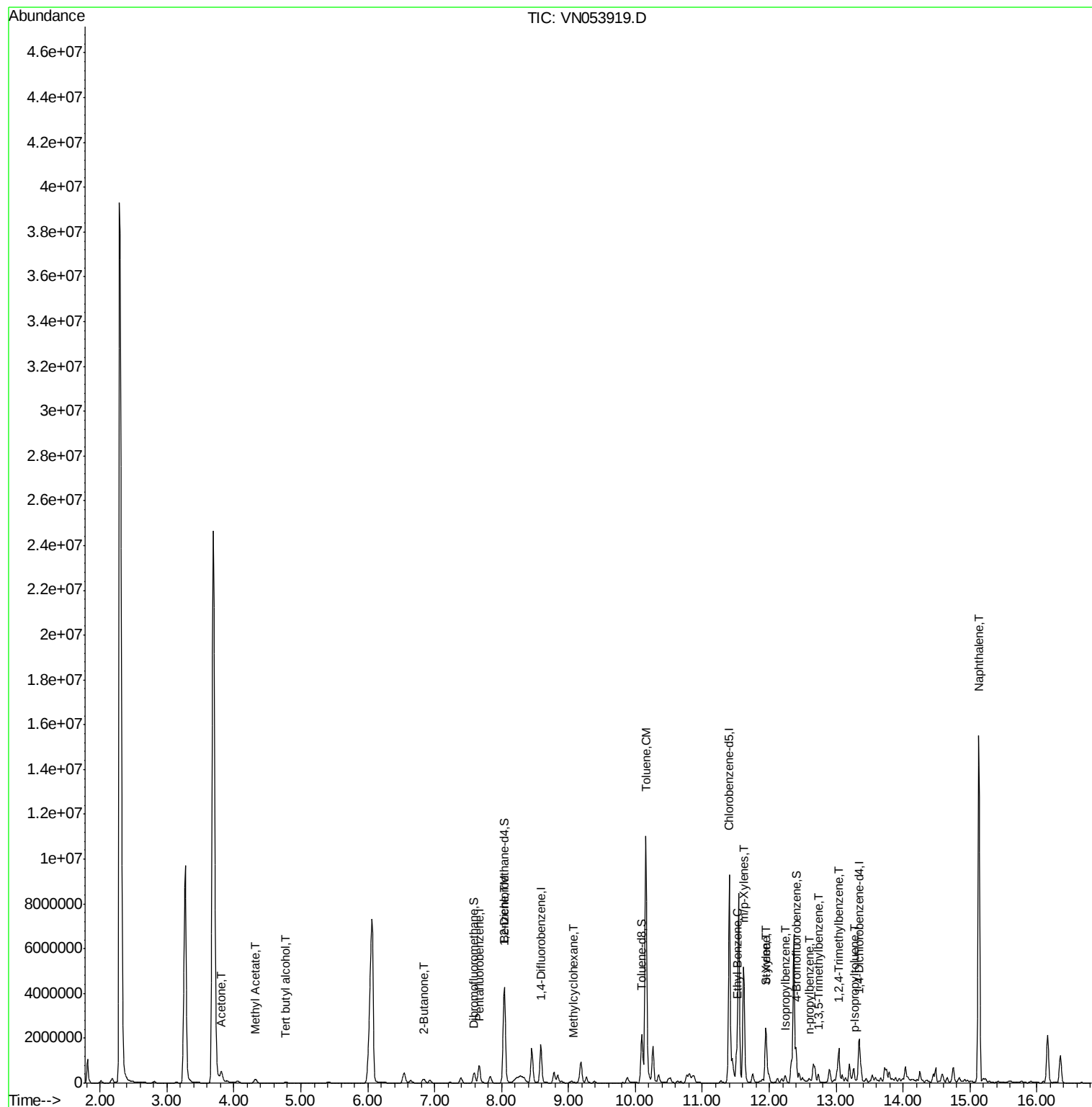
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	355919	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
35) Dibromofluoromethane	7.59	113	357177	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	10.09	98	1385818	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.40	95	519301	57.61	ug/l	0.00
Spiked Amount			Recovery	=	115.22%	

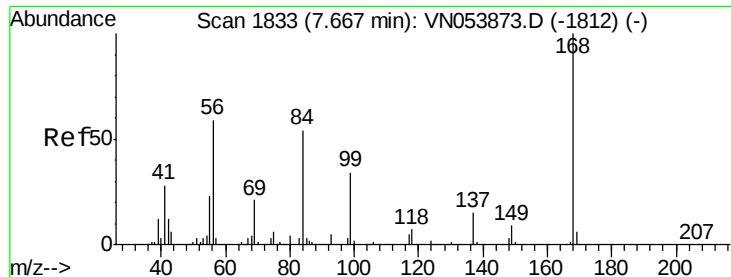
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	57547	125.189	ug/l	98
16) Acetone	3.81	43	658296	325.063	ug/l #	61
18) Methyl Acetate	4.32	43	343909	71.954	ug/l	99
25) 2-Butanone	6.83	43	314091	120.195	ug/l	100
39) Methylcyclohexane	9.08	83	14774	1.214	ug/l	96
40) Benzene	8.04	78	4540218	145.453	ug/l	99
52) Toluene	10.16	92	5352881	289.381	ug/l	99
67) Ethyl Benzene	11.51	91	1027329	27.437	ug/l	99
68) m/p-Xylenes	11.62	106	1797557	123.987	ug/l	99
69) o-Xylene	11.95	106	647772	46.411	ug/l	99
70) Styrene	11.96	104	299624	13.680	ug/l #	75
73) Isopropylbenzene	12.25	105	51729	1.333	ug/l	99
78) n-propylbenzene	12.59	91	125479	2.892	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	216326	6.716	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	867659	26.858	ug/l	98
86) p-Isopropyltoluene	13.29	119	36017	1.066	ug/l	99
95) Naphthalene	15.13	128	14185433	593.804	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053919.D

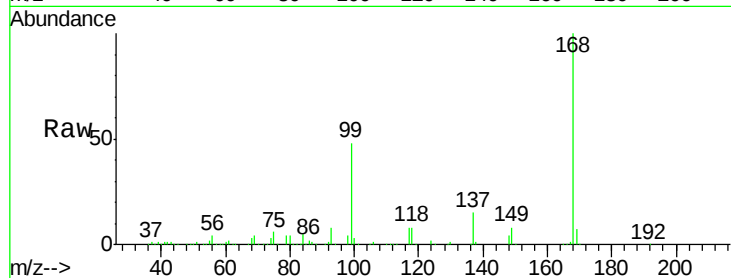
Acq: 22 Feb 2019 16:39

Tot Ion:168 Resp: 720517

Ion Ratio Lower Upper

168 100

99 47.8 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

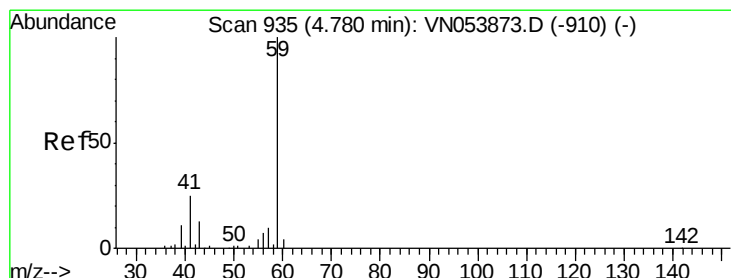
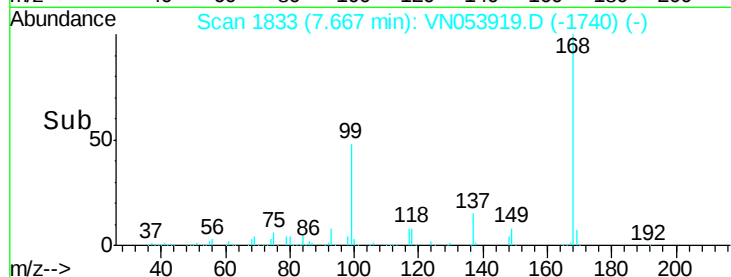
100000

50000

0

Time-->

7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 125.189 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.01 min

Lab File: VN053919.D

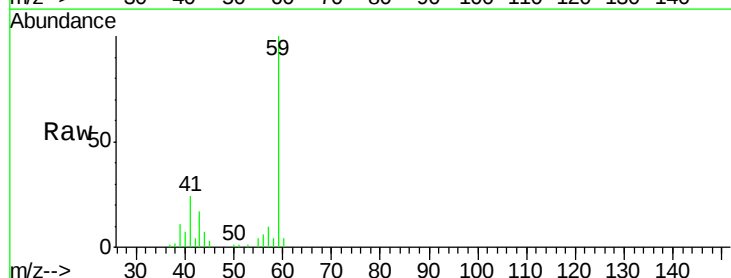
Acq: 22 Feb 2019 16:39

Tgt Ion: 59 Resp: 57547

Ion Ratio Lower Upper

59 100

57 10.9 8.1 12.1



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.77

15000

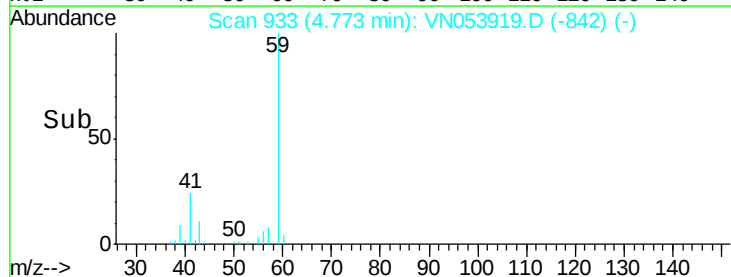
10000

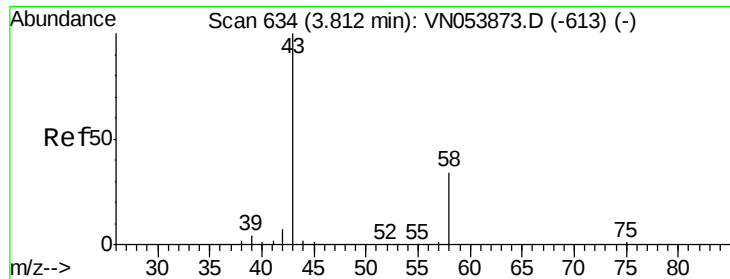
5000

0

Time-->

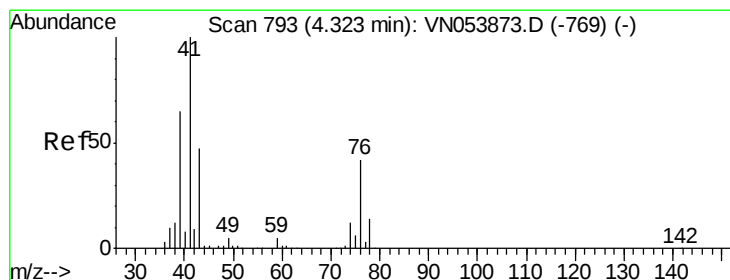
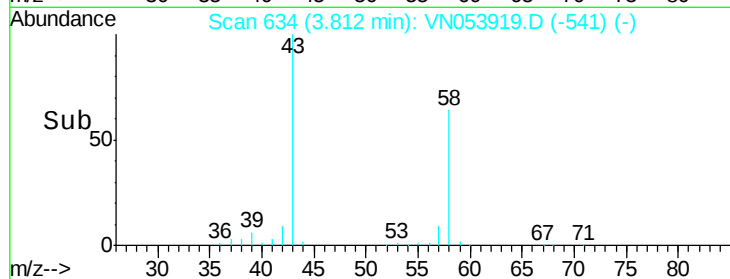
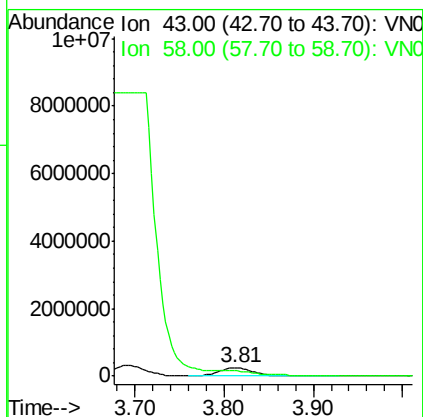
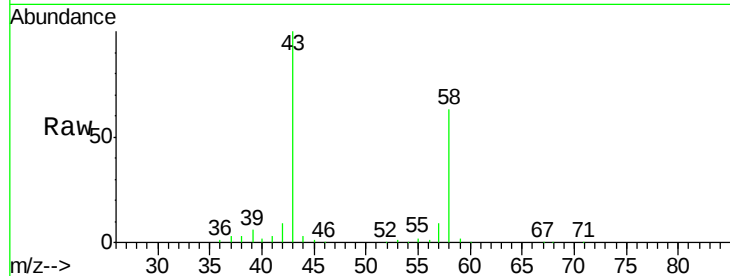
4.70 4.80 4.90





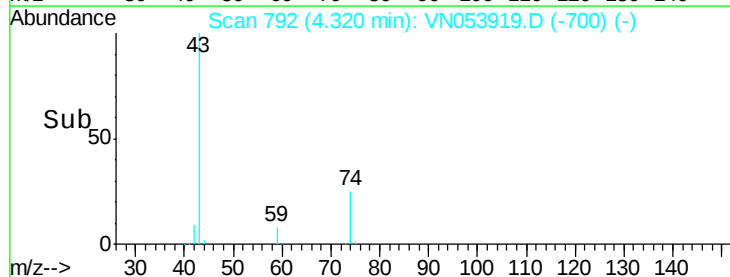
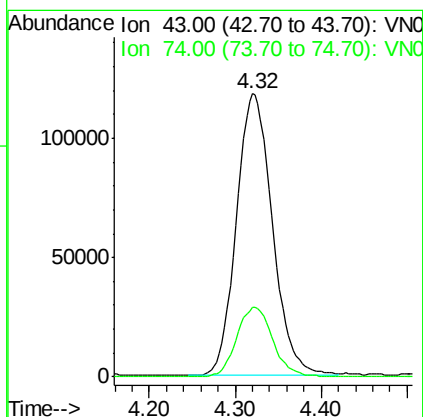
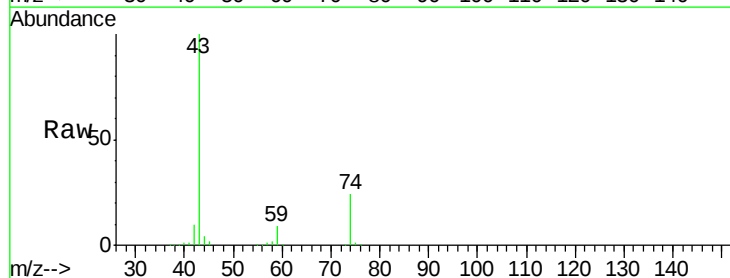
#16
Acetone
Concen: 325.063 ug/l
RT: 3.81 min Scan# 634
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

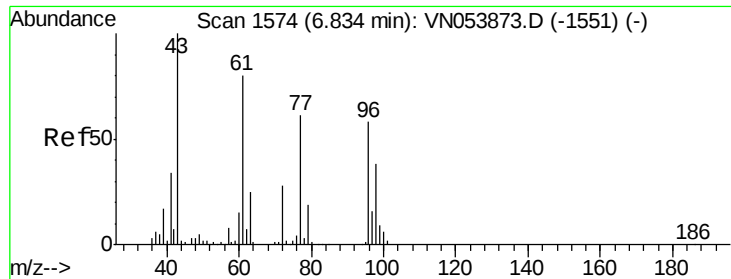
Tot Ion: 43 Resp: 658296
Ion Ratio Lower Upper
43 100
58 56.8 27.6 41.4#



#18
Methyl Acetate
Concen: 71.954 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tgt Ion: 43 Resp: 343909
Ion Ratio Lower Upper
43 100
74 24.9 20.5 30.7





#25

2-Butanone

Concen: 120.195 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN053919.D

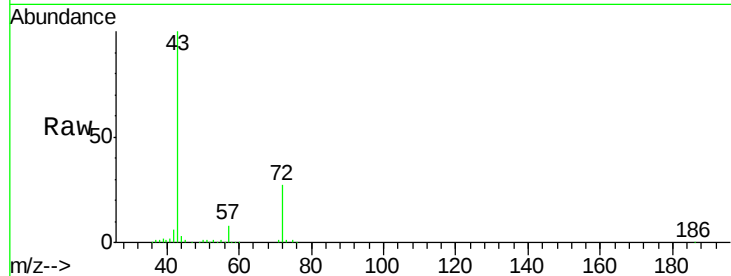
Acq: 22 Feb 2019 16:39

Tot Ion: 43 Resp: 314091

Ion Ratio Lower Upper

43 100

72 27.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN053873.D (-1551) (-)

Ion 72.00 (71.70 to 72.70): VN053873.D (-1551) (-)

6.83

120000

100000

80000

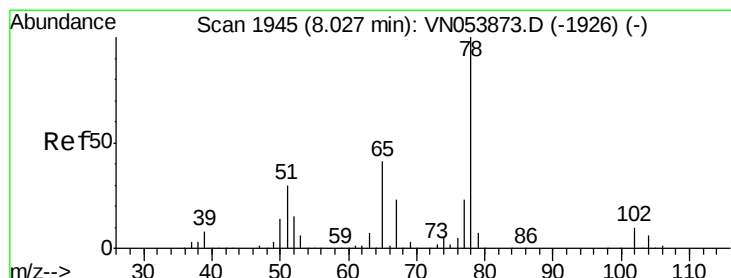
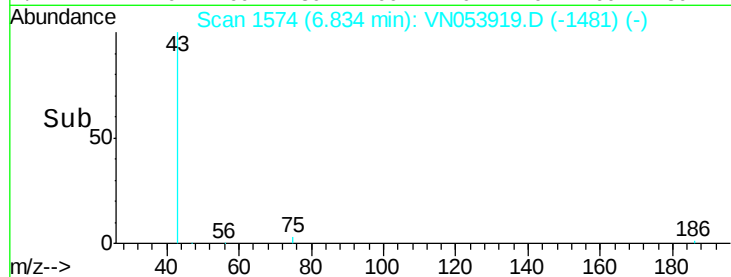
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.335 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053919.D

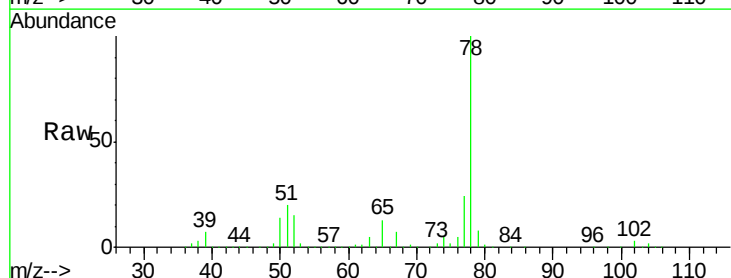
Acq: 22 Feb 2019 16:39

Tgt Ion: 65 Resp: 355919

Ion Ratio Lower Upper

65 100

67 55.8 0.0 111.8



Abundance Ion 64.90 (64.60 to 65.60): VN053873.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN053873.D (-1926) (-)

8.03

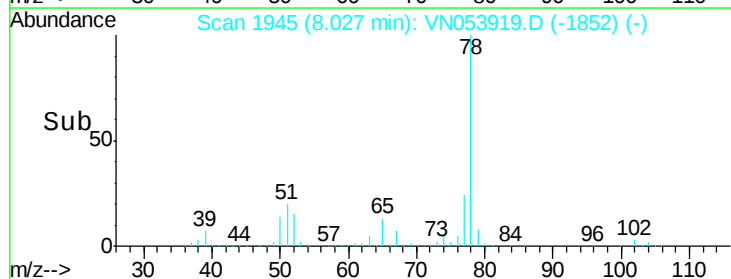
150000

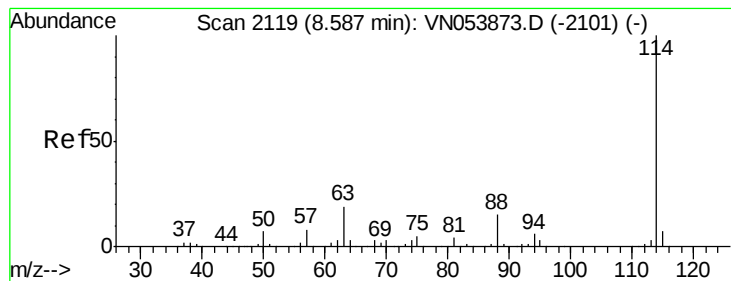
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN053919.D

Acq: 22 Feb 2019 16:39

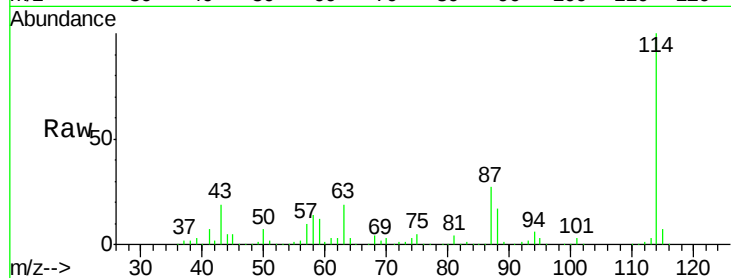
Tot Ion:114 Resp: 1151915

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

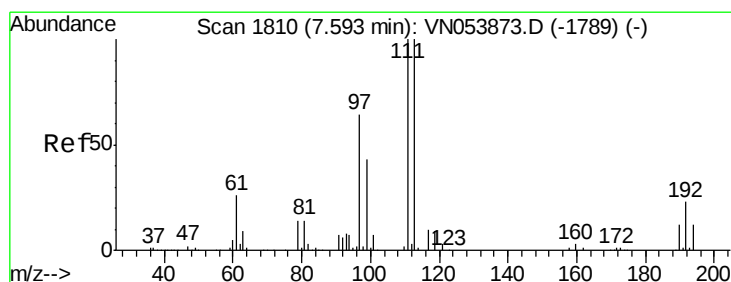
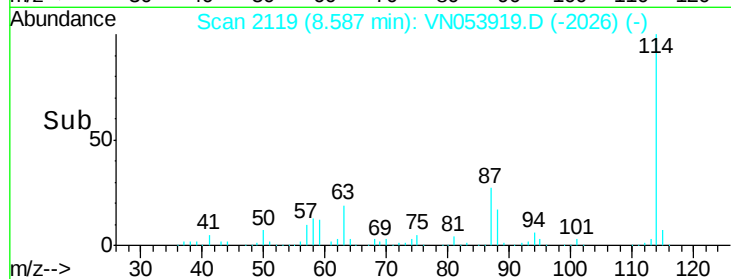
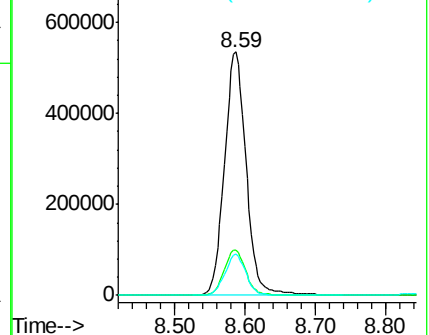
88 16.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 47.247 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053919.D

Acq: 22 Feb 2019 16:39

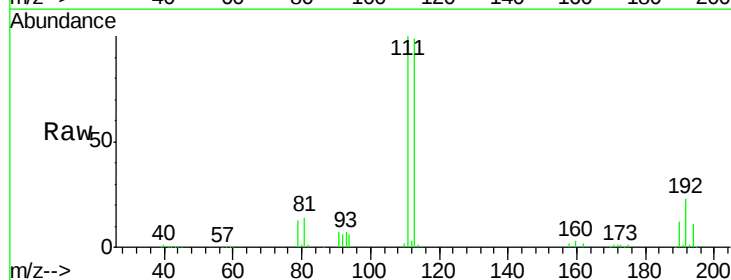
Tgt Ion:113 Resp: 357177

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

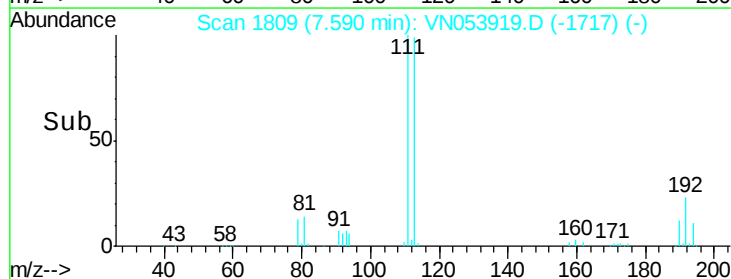
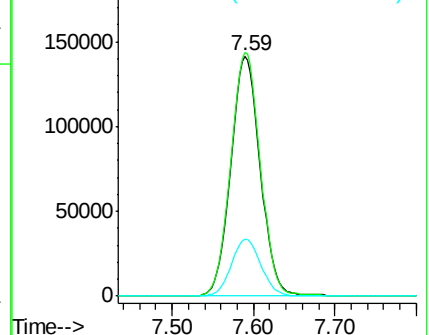
192 23.9 18.8 28.2

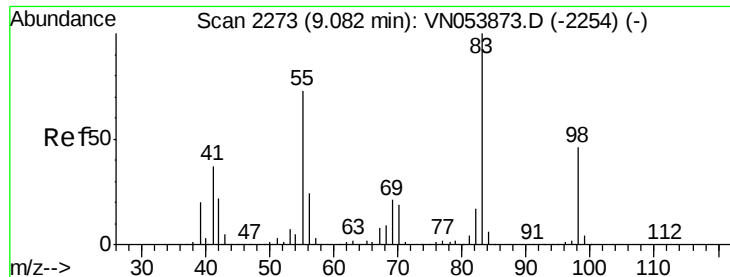


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

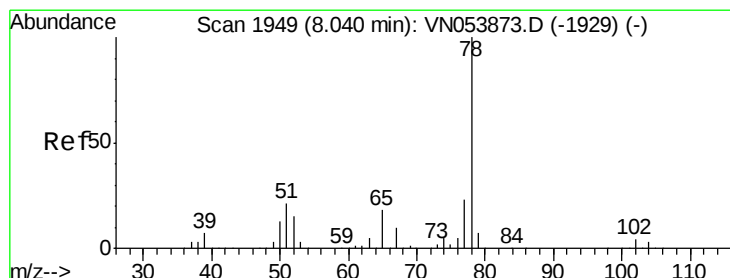
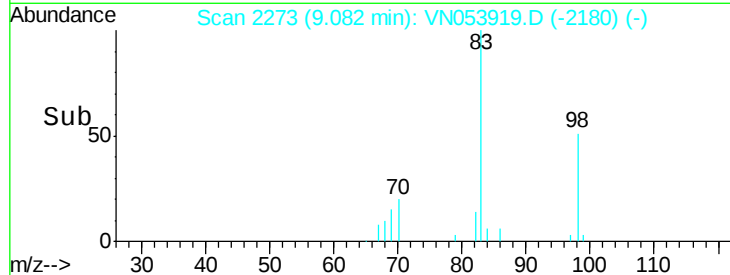
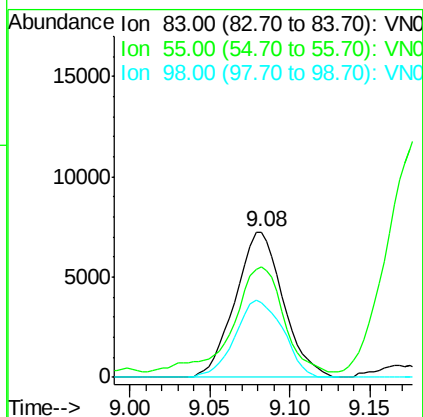
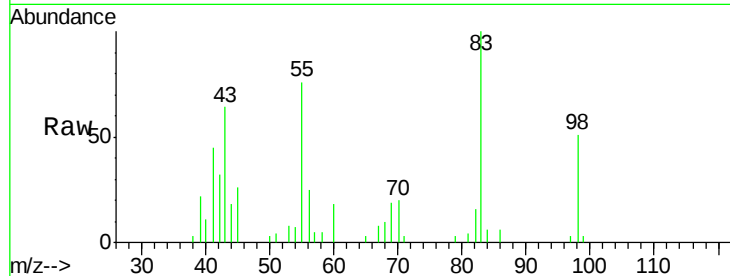
Ion 191.70 (191.40 to 192.40): V





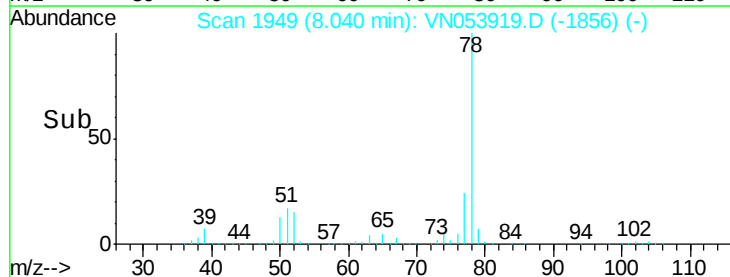
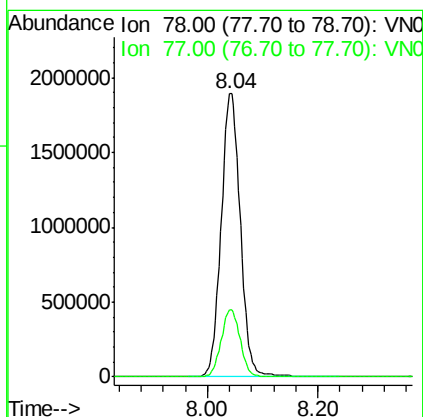
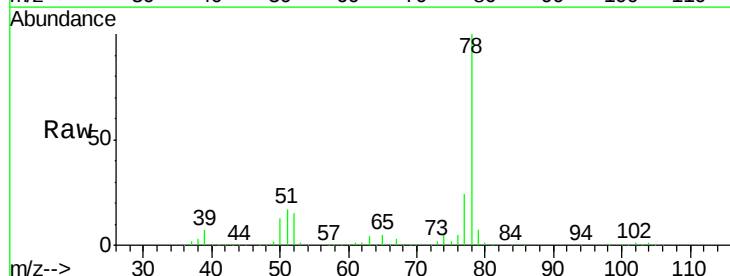
#39
Methvlcvclohexane
Concen: 1.214 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

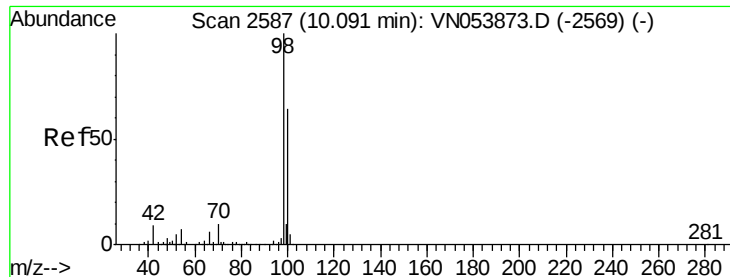
Tot Ion: 83 Resp: 14774
Ion Ratio Lower Upper
83 100
55 71.7 58.2 87.4
98 51.2 37.2 55.8



#40
Benzene
Concen: 145.453 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tgt Ion: 78 Resp: 4540218
Ion Ratio Lower Upper
78 100
77 23.8 18.8 28.2





#50

Toluene-d8

Concen: 50.755 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053919.D

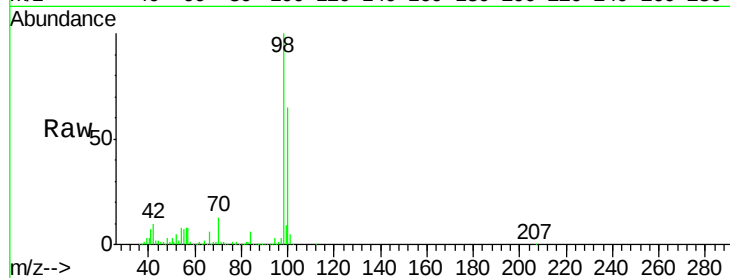
Acq: 22 Feb 2019 16:39

Tot Ion: 98 Resp: 1385818

Ion Ratio Lower Upper

98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

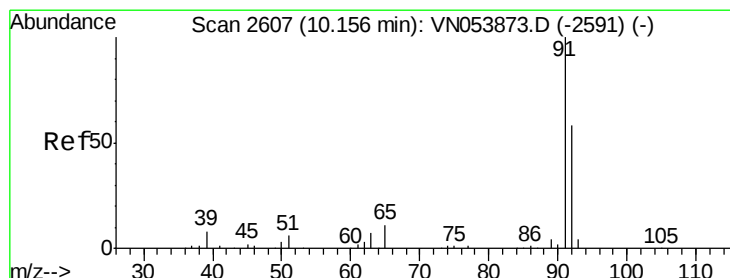
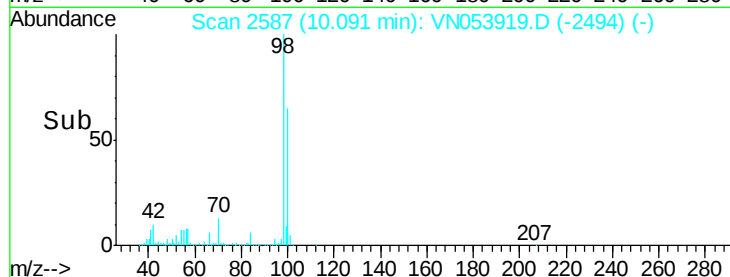
600000

400000

200000

0

Time--> 10.00 10.10 10.20



#52

Toluene

Concen: 289.381 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053919.D

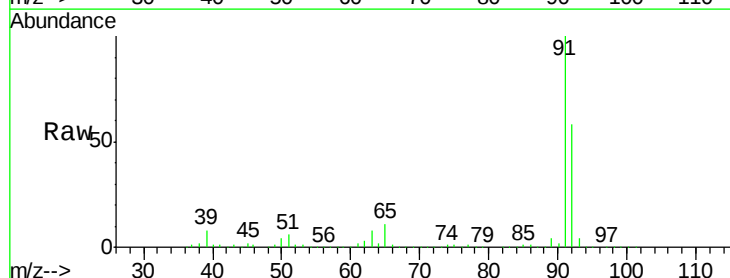
Acq: 22 Feb 2019 16:39

Tgt Ion: 92 Resp: 5352881

Ion Ratio Lower Upper

92 100

91 173.8 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

5000000

4000000

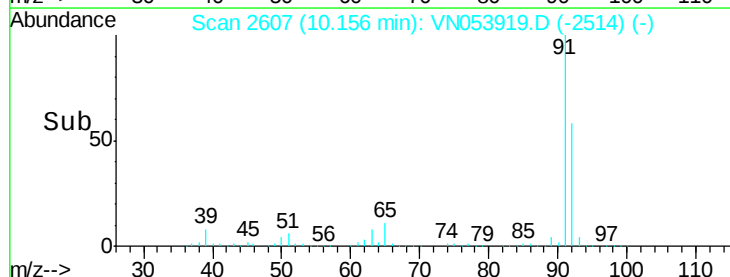
3000000

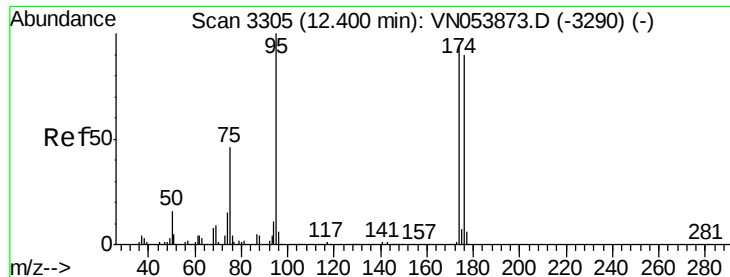
2000000

1000000

0

Time--> 10.00 10.10 10.20 10.30





#62

4-Bromofluorobenzene

Concen: 57.609 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053919.D

Acq: 22 Feb 2019 16:39

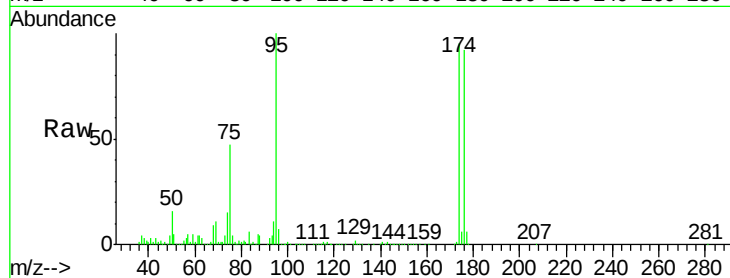
Tot Ion: 95 Resp: 519301

Ion Ratio Lower Upper

95 100

174 95.8 0.0 188.8

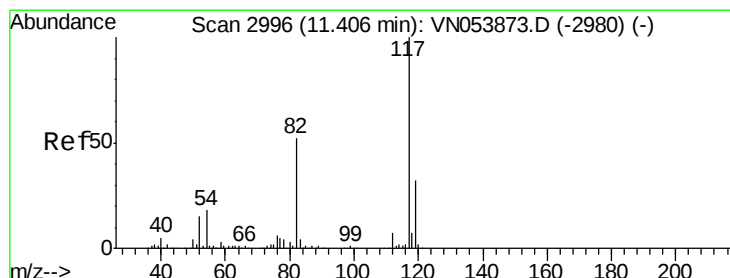
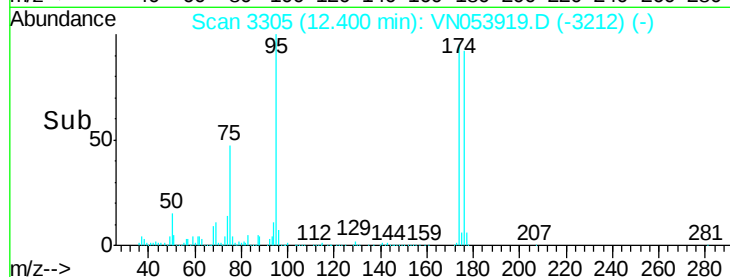
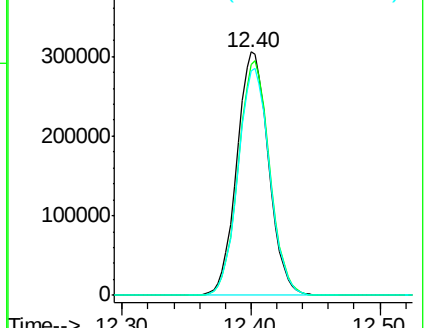
176 93.4 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN053873.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053873.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053873.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN053919.D

Acq: 22 Feb 2019 16:39

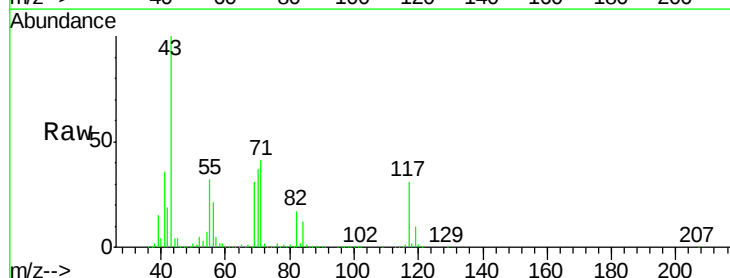
Tgt Ion: 117 Resp: 1105339

Ion Ratio Lower Upper

117 100

82 53.4 41.4 62.2

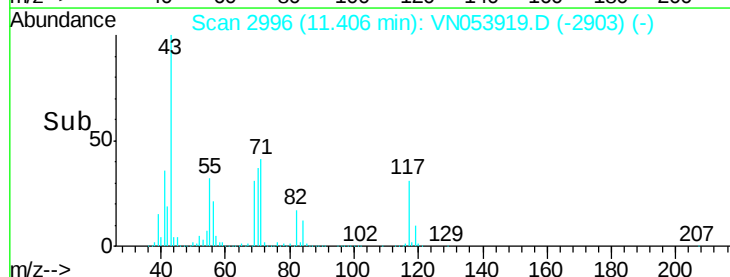
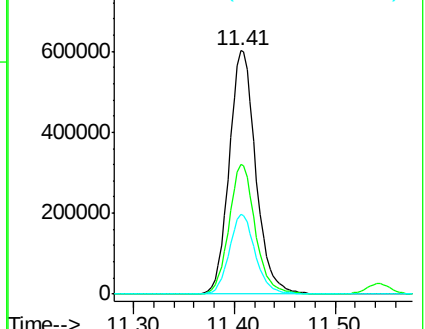
119 32.9 25.3 37.9

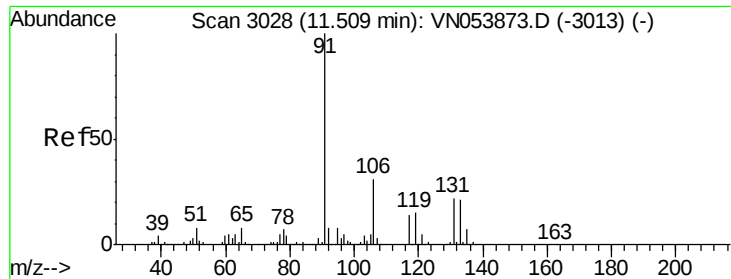


Abundance Ion 116.90 (116.60 to 117.60): VN053873.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053873.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053873.D (-2980) (-)





#67

Ethyl Benzene

Concen: 27.437 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053919.D

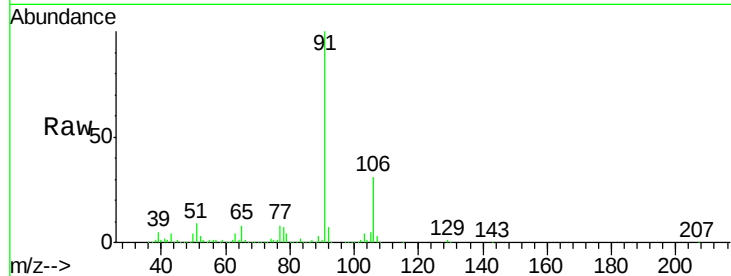
Acq: 22 Feb 2019 16:39

Tot Ion: 91 Resp: 1027329

Ion Ratio Lower Upper

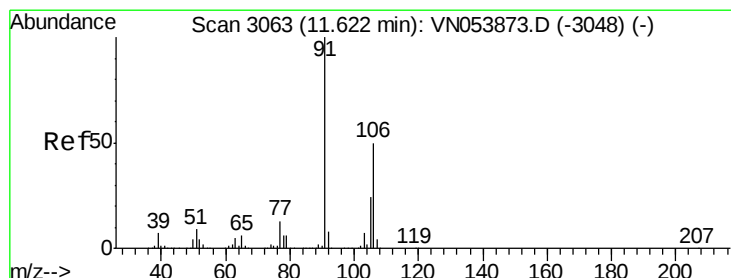
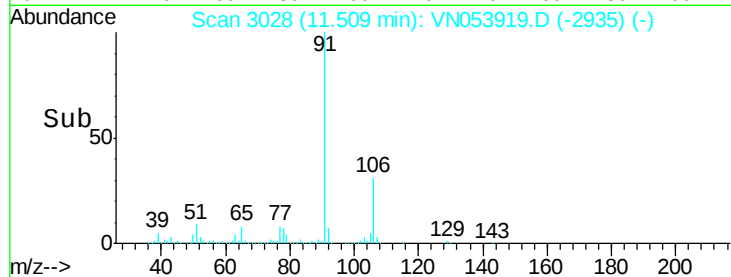
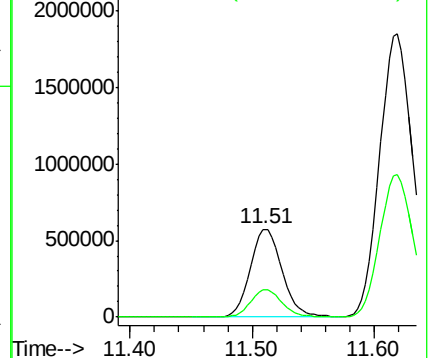
91 100

106 31.2 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 123.987 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN053919.D

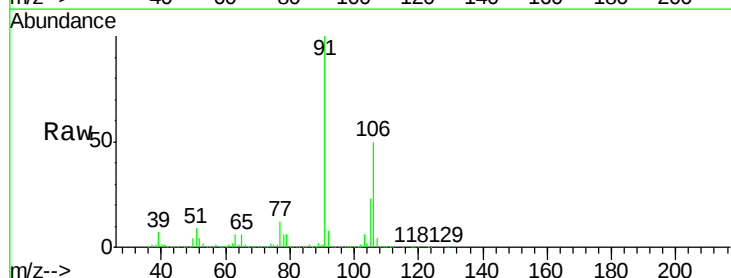
Acq: 22 Feb 2019 16:39

Tgt Ion: 106 Resp: 1797557

Ion Ratio Lower Upper

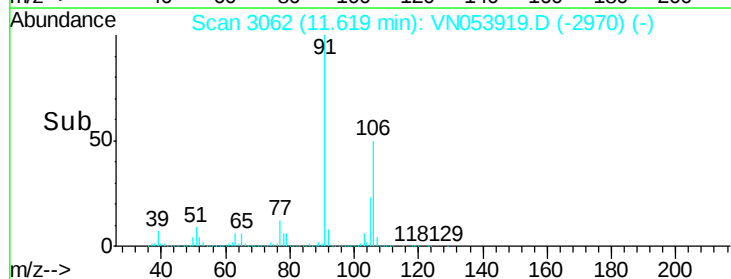
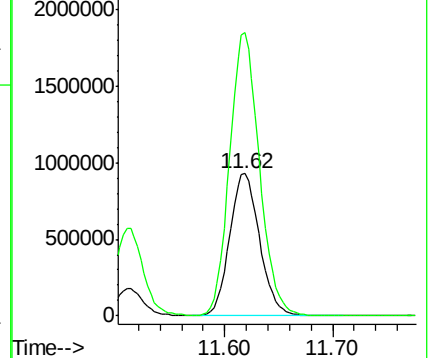
106 100

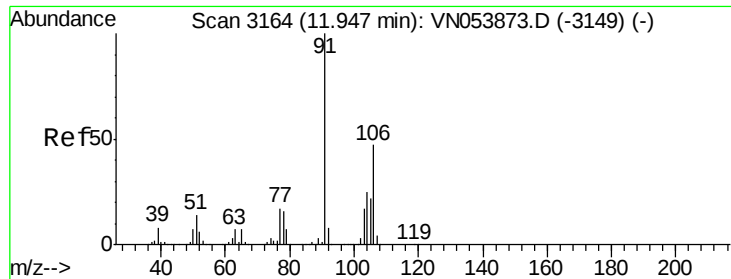
91 197.6 158.9 238.3



Abundance Ion 106.00 (105.70 to 106.70): V

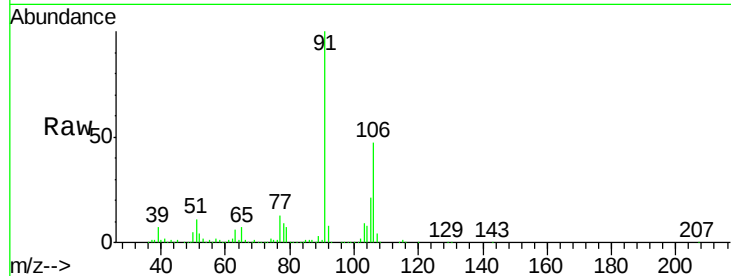
Ion 91.00 (90.70 to 91.70): VN0



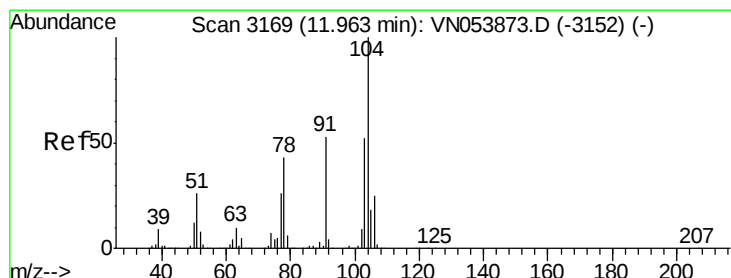
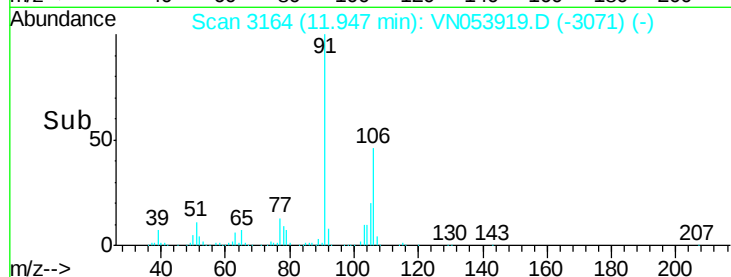
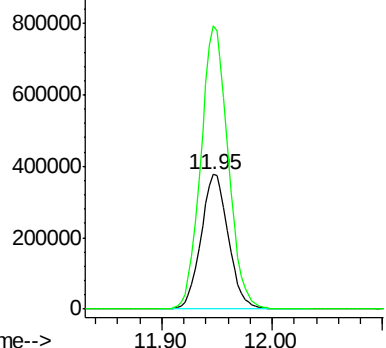


#69
o-Xylene
Concen: 46.411 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tot Ion:106 Resp: 647772
Ion Ratio Lower Upper
106 100
91 210.2 106.0 318.0

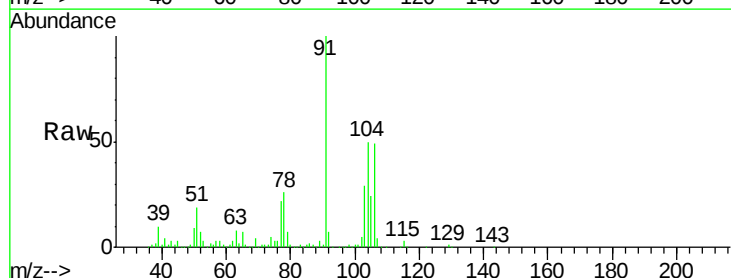


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

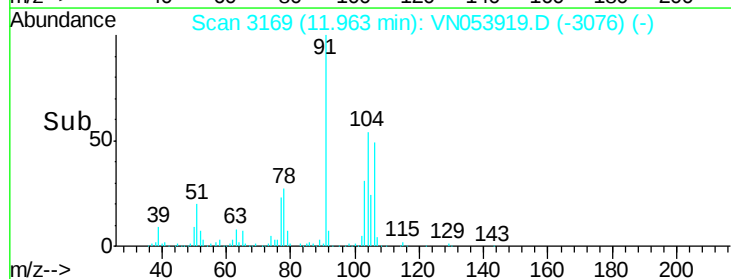
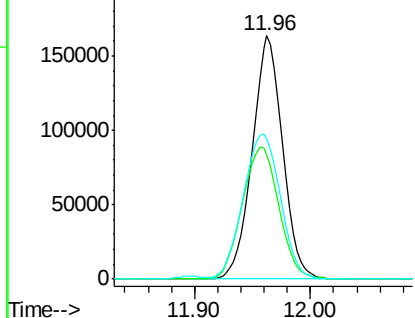


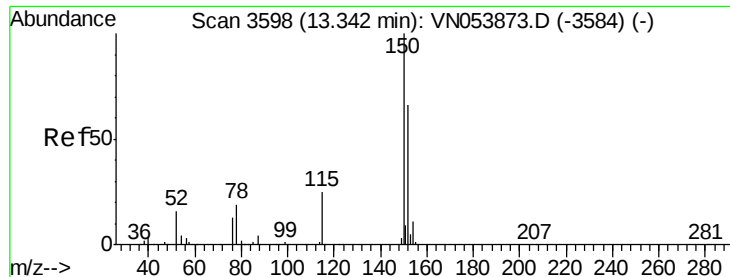
#70
Styrene
Concen: 13.680 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tgt Ion:104 Resp: 299624
Ion Ratio Lower Upper
104 100
78 65.5 38.1 57.1#
103 72.5 44.6 67.0#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V

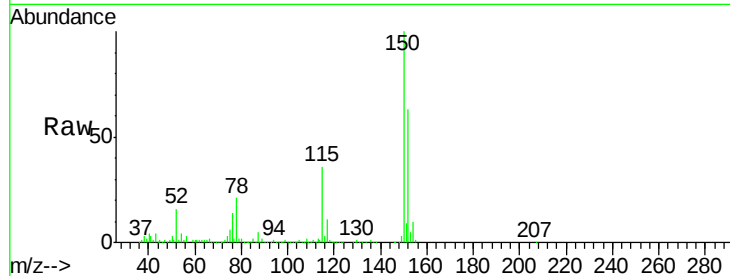




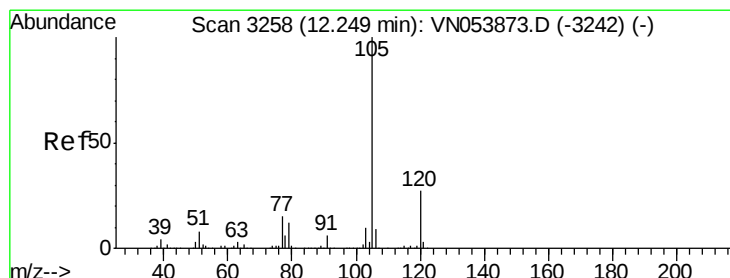
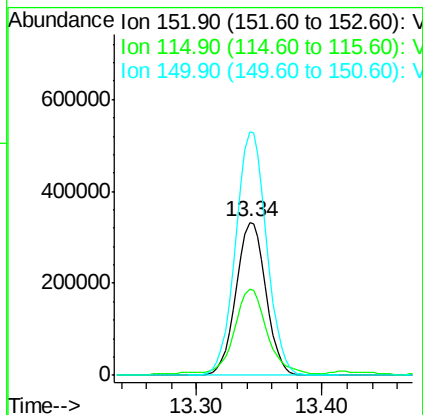
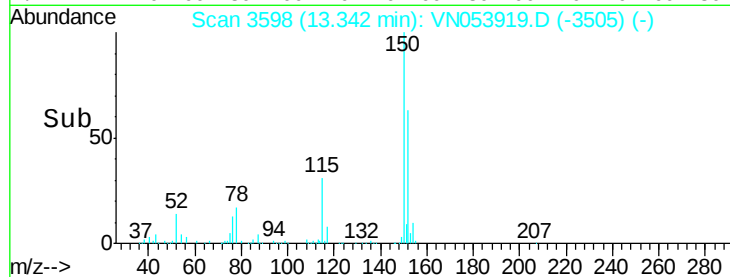
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.4	27.2	81.6
150	165.4	0.0	348.2



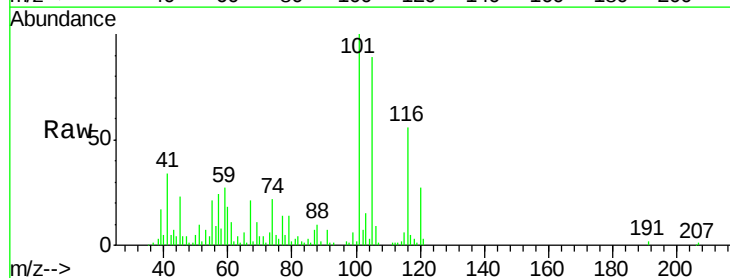
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



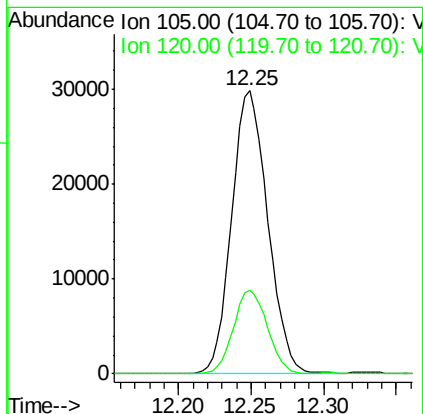
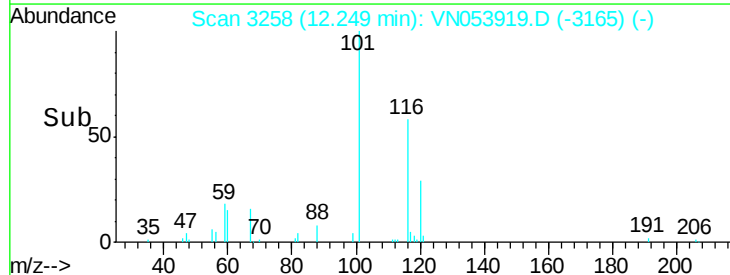
#73

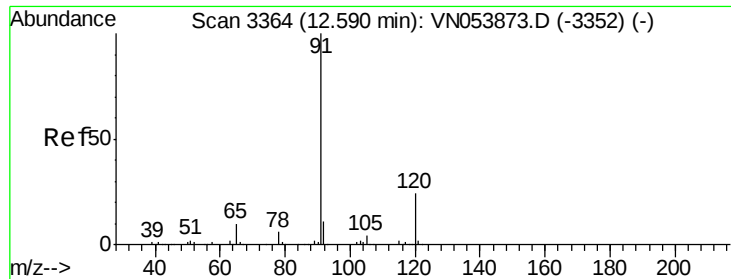
Isopropylbenzene
Concen: 1.333 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN053919.D
Acq: 22 Feb 2019 16:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.7	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 2.892 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053919.D

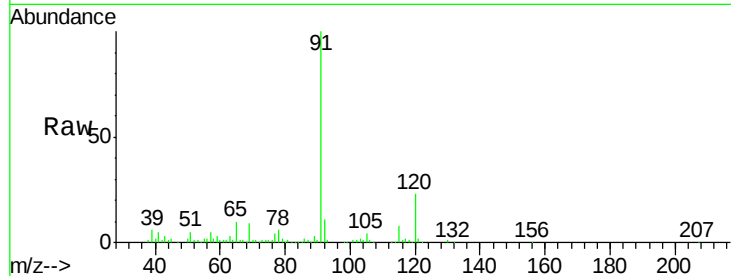
Acq: 22 Feb 2019 16:39

Tot Ion: 91 Resp: 125479

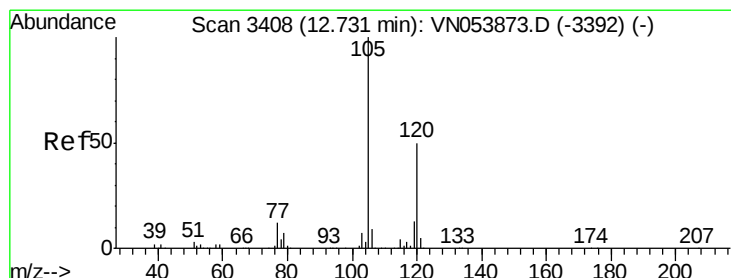
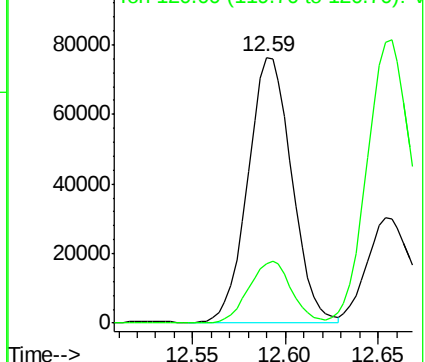
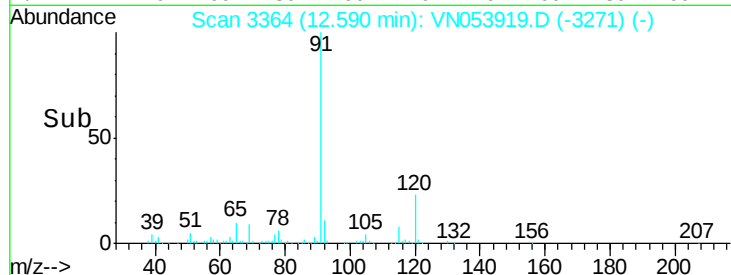
Ion Ratio Lower Upper

91 100

120 23.0 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VN053919.D (-3271) (-)



#80

1,3,5-Trimethylbenzene

Concen: 6.716 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053919.D

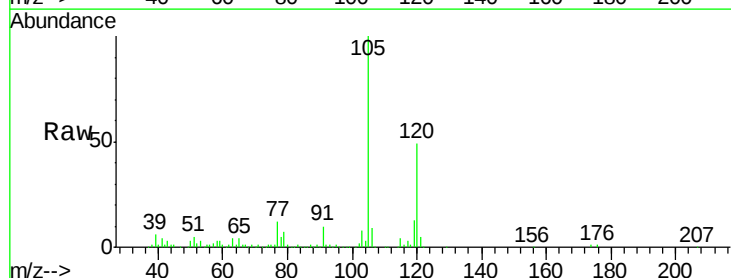
Acq: 22 Feb 2019 16:39

Tgt Ion: 105 Resp: 216326

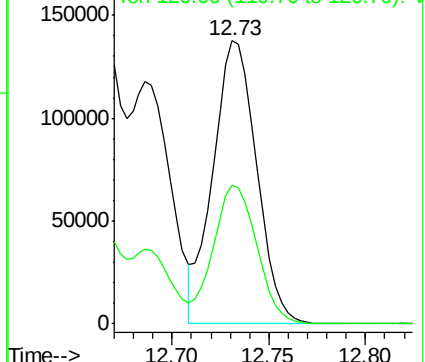
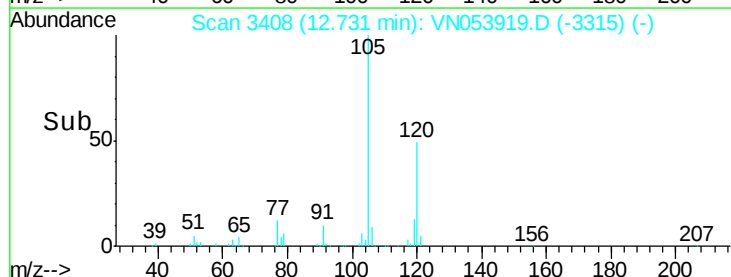
Ion Ratio Lower Upper

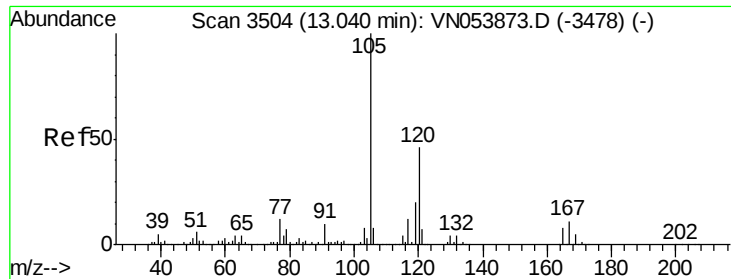
105 100

120 49.1 25.1 75.2



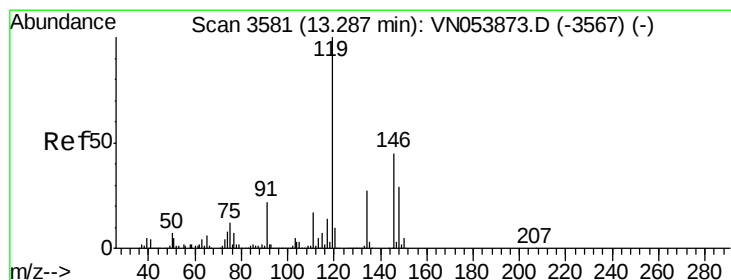
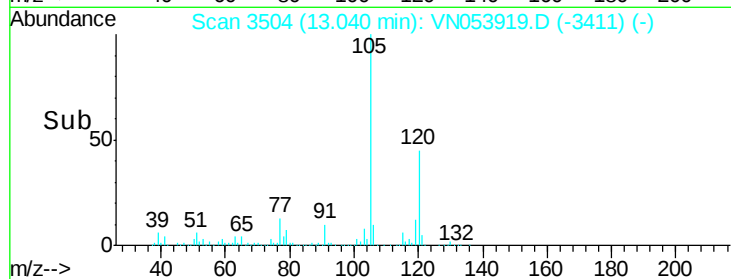
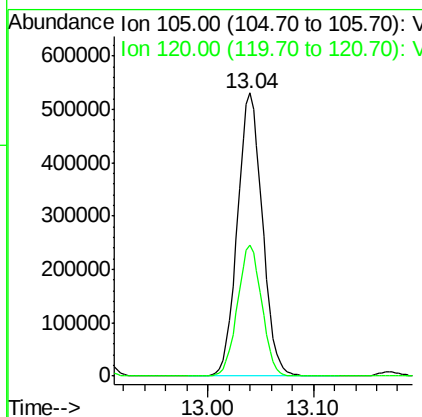
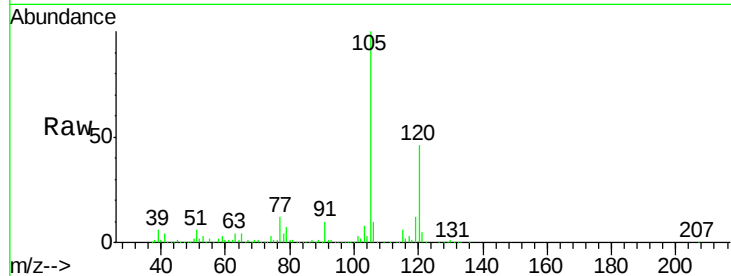
Abundance Ion 105.00 (104.70 to 105.70): VN053919.D (-3315) (-)





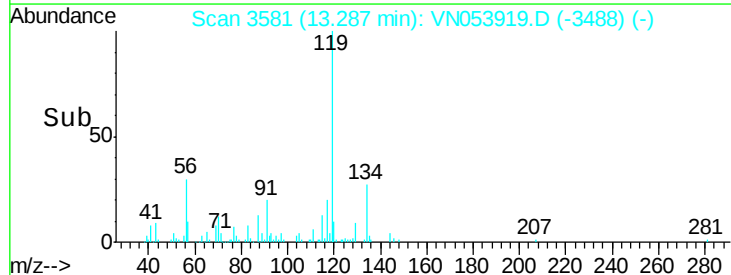
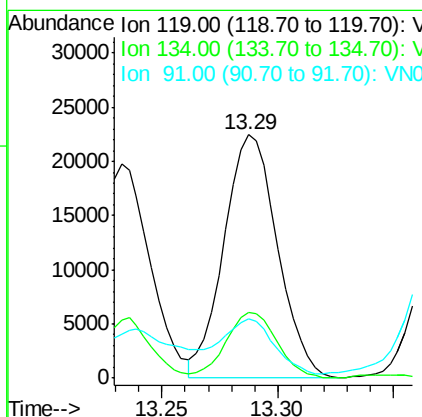
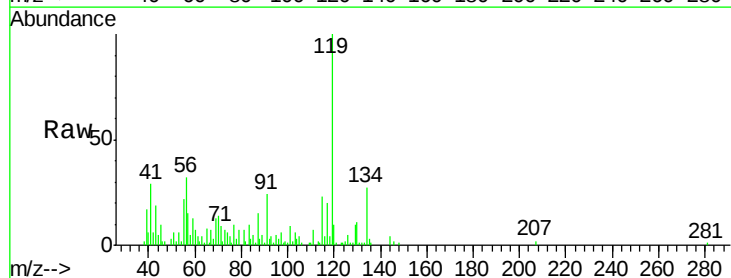
#84
 1,2,4-Trimethylbenzene
 Concen: 26.858 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053919.D
 Acq: 22 Feb 2019 16:39

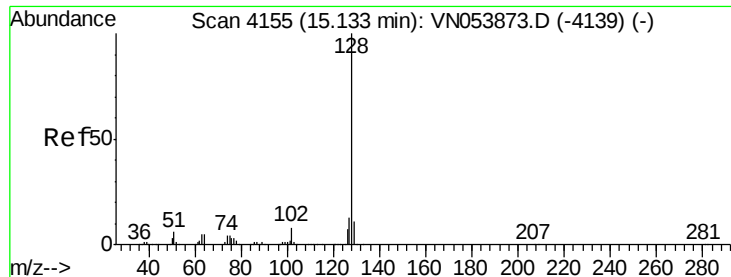
Tot Ion:105 Resp: 867659
 Ion Ratio Lower Upper
 105 100
 120 44.9 23.2 69.5



#86
 p-Isopropyltoluene
 Concen: 1.066 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053919.D
 Acq: 22 Feb 2019 16:39

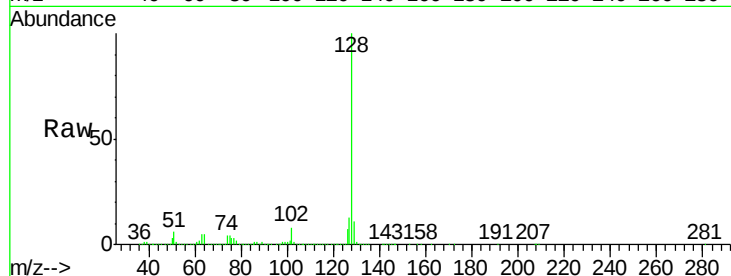
Tgt Ion:119 Resp: 36017
 Ion Ratio Lower Upper
 119 100
 134 25.7 13.5 40.4
 91 21.8 10.9 32.6





#95
 Naphthalene
 Concen: 593.804 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053919.D
 Acq: 22 Feb 2019 16:39

Tot Ion:128 Resp:14185433
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.2
 129 10.9 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

