

Data File : VN059957.D
Acq On : 31 Jan 2020 18:43
Operator : JC/MD
Sample : L1329-16 50X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
40230

Quant Time: Feb 03 01:23:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	196427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	300881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	274355	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	128725	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	107445	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	
35) Dibromofluoromethane	7.57	113	91042	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
50) Toluene-d8	10.08	98	357839	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.40	95	125829	50.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.42%	

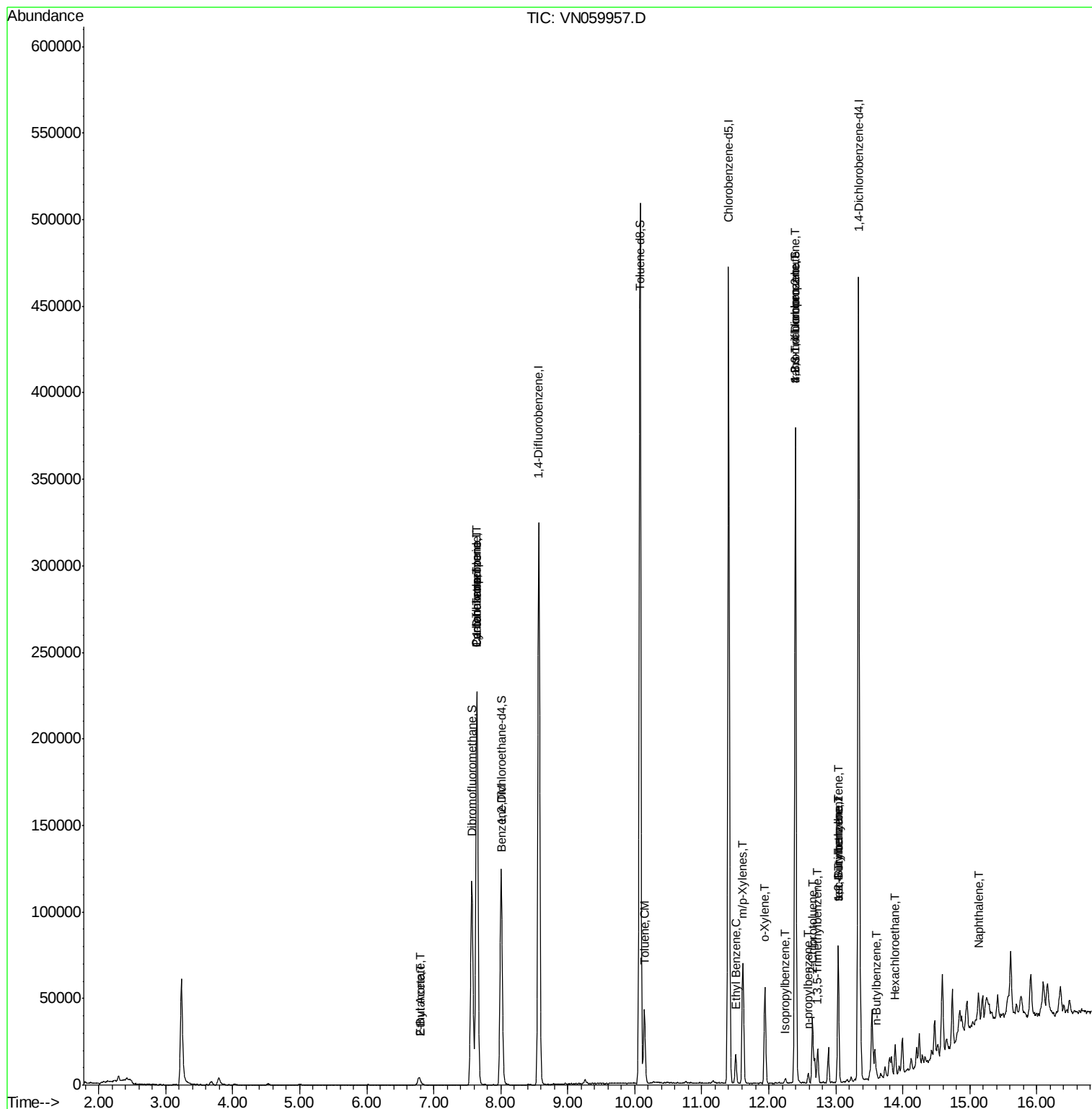
Target Compounds			Qvalue			
20) Methylene Chloride	4.51	84	204	Below Cal	#	35
25) 2-Butanone	6.81	43	643	0.521	ug/l #	50
31) Cyclohexane	7.64	56	3612	1.119	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13366	5.101	ug/l #	47
37) Ethyl Acetate	6.81	43	643	0.262	ug/l #	69
38) Carbon Tetrachloride	7.64	117	18182	6.379	ug/l #	16
40) Benzene	8.02	78	3512	0.449	ug/l	96
52) Toluene	10.14	92	18601	3.769	ug/l	98
67) Ethyl Benzene	11.51	91	12904	1.318	ug/l	97
68) m/p-Xylenes	11.61	106	23336	6.311	ug/l	96
69) o-Xylene	11.94	106	15751	4.351	ug/l	97
73) Isopropylbenzene	12.25	105	1916	0.203	ug/l	91
76) 1,2,3-Trichloropropane	12.40	75	65014	30.011	ug/l #	100
78) n-propylbenzene	12.59	91	5221	0.493	ug/l	96
79) 2-Chlorotoluene	12.65	91	3300	0.524	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.73	105	10532	1.327	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	65014	64.450	ug/l #	11
83) tert-Butylbenzene	13.04	119	5677	0.827	ug/l #	74
84) 1,2,4-Trimethylbenzene	13.04	105	44959	5.724	ug/l	98
85) sec-Butylbenzene	13.04	105	44959	4.983	ug/l #	57
89) n-Butylbenzene	13.61	91	1809	0.254	ug/l #	79
90) Hexachloroethane	13.89	117	871	0.558	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.33	75	63	Below Cal	#	6
95) Naphthalene	15.13	128	12933	1.843	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: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

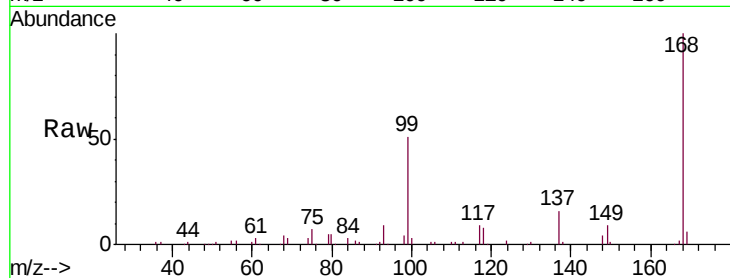
40230

Tgt Ion:168 Resp: 196427

Ion Ratio Lower Upper

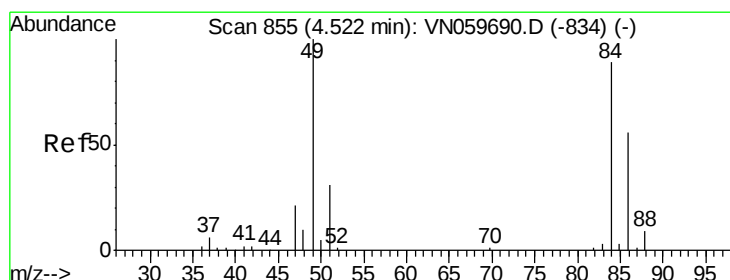
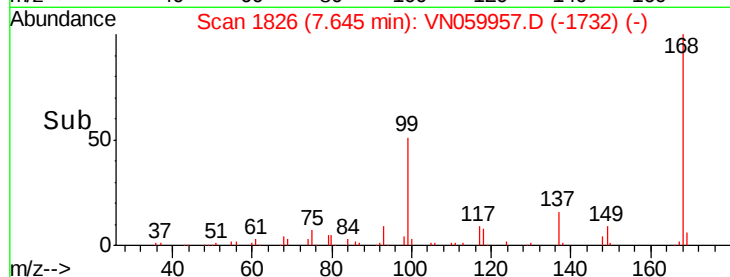
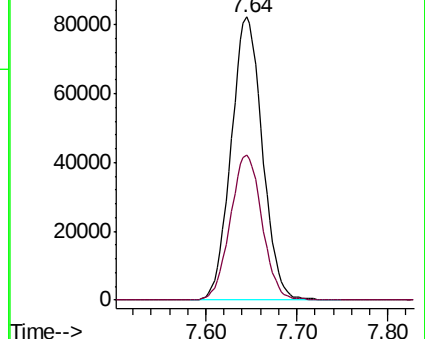
168 100

99 51.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 852

Delta R.T. -0.01 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Tgt Ion: 84 Resp: 204

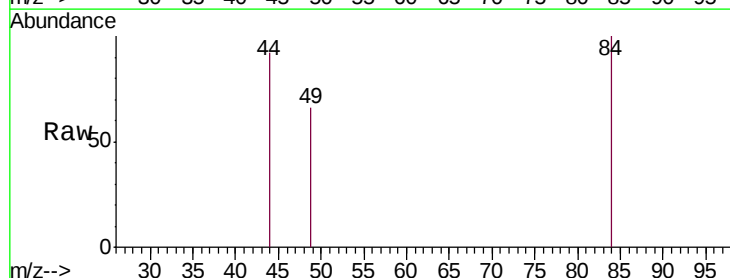
Ion Ratio Lower Upper

84 100

49 66.1 106.6 160.0#

51 0.0 31.9 47.9#

86 0.0 50.8 76.2#

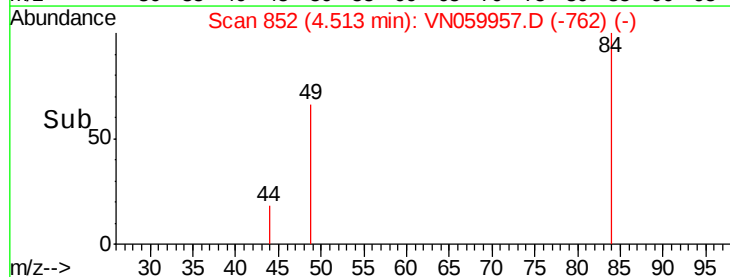
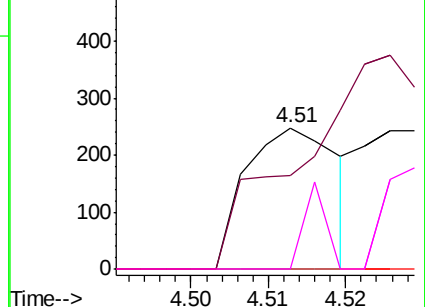


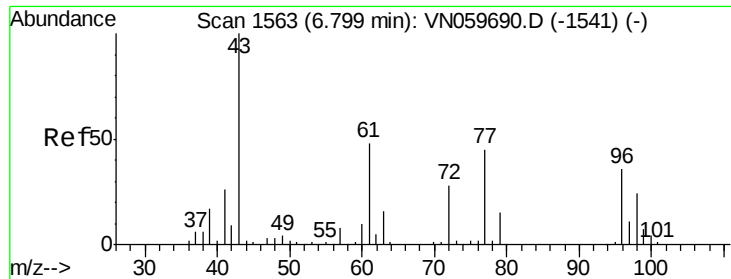
Abundance Ion 83.90 (83.60 to 84.60): VN

Ion 48.90 (48.60 to 49.60): VN

Ion 50.90 (50.60 to 51.60): VN

Ion 85.90 (85.60 to 86.60): VN

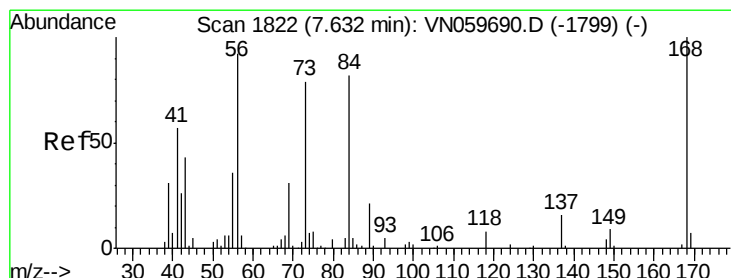
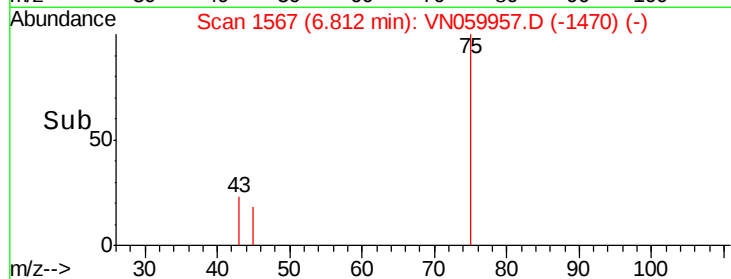
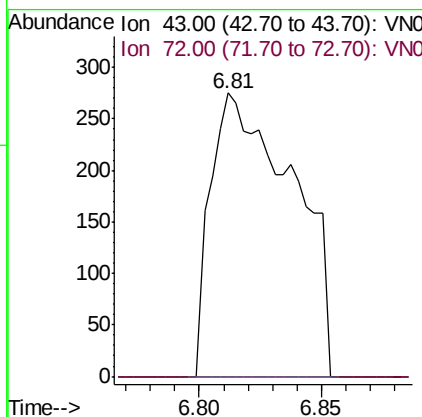
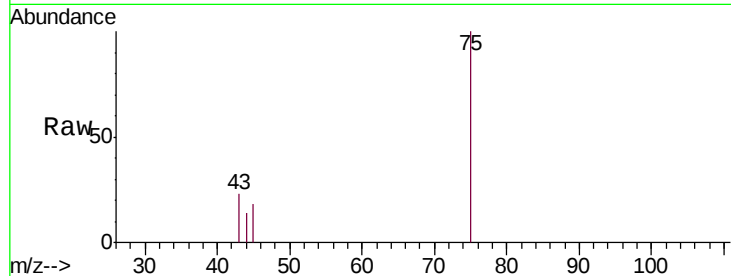




#25
2-Butanone
Concen: 0.521 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

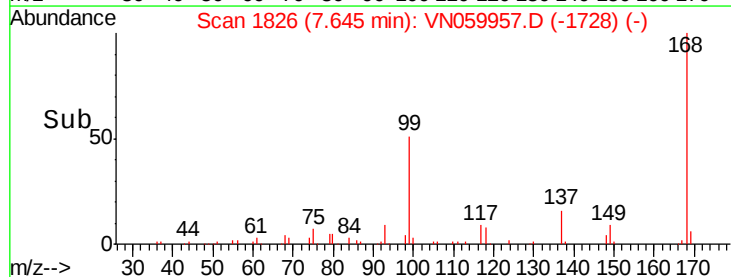
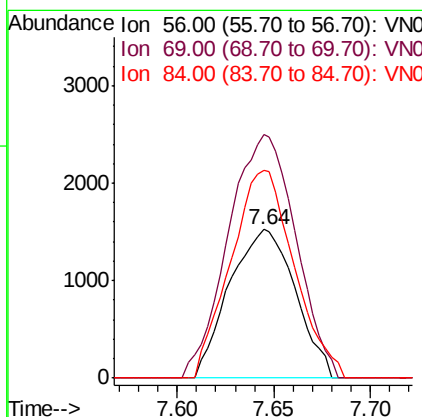
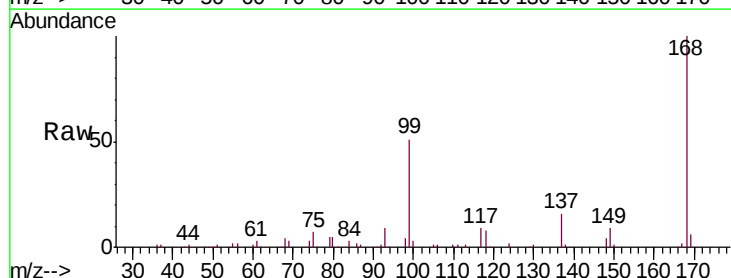
Instrument :
MSVOA_N
ClientSampled :
40230

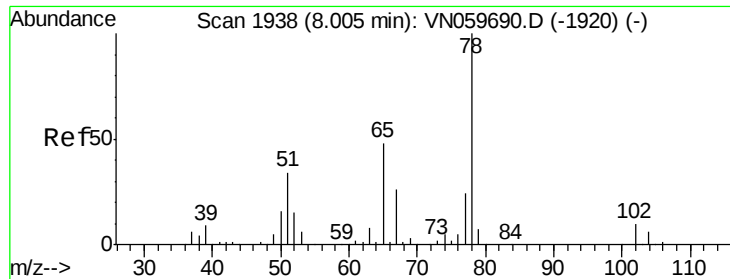
Tgt Ion: 43 Resp: 643
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.119 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

Tgt Ion: 56 Resp: 3612
Ion Ratio Lower Upper
56 100
69 164.1 26.5 39.7#
84 140.2 65.3 97.9#

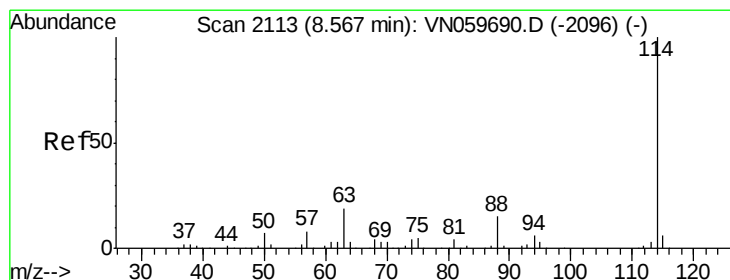
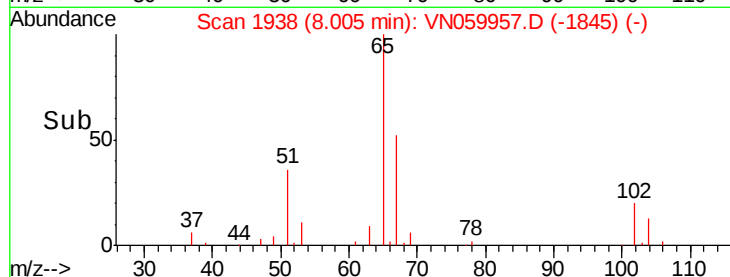
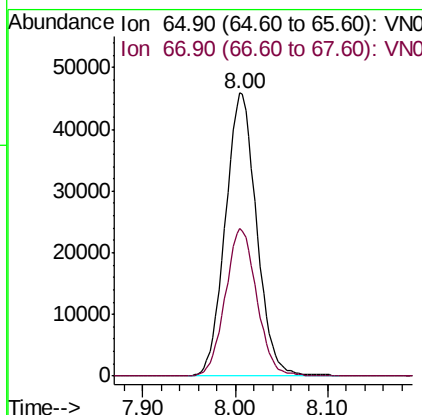
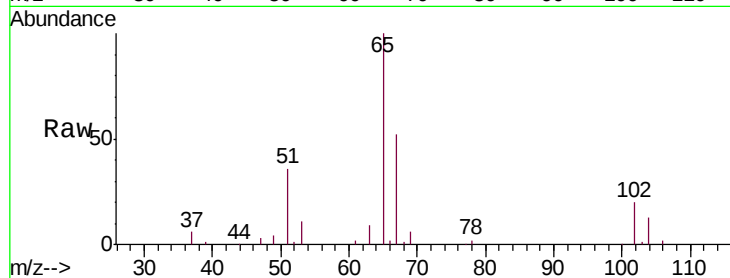




#33
 1,2-Dichloroethane-d4
 Concen: 49.256 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

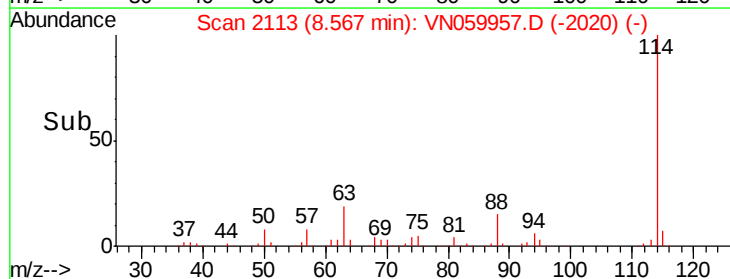
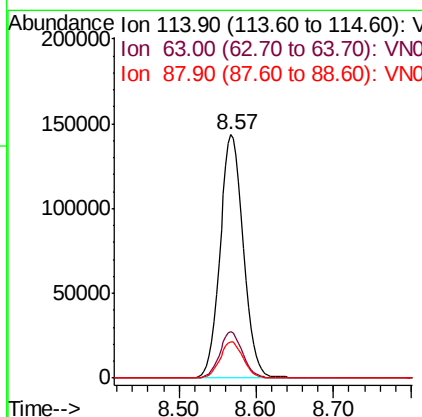
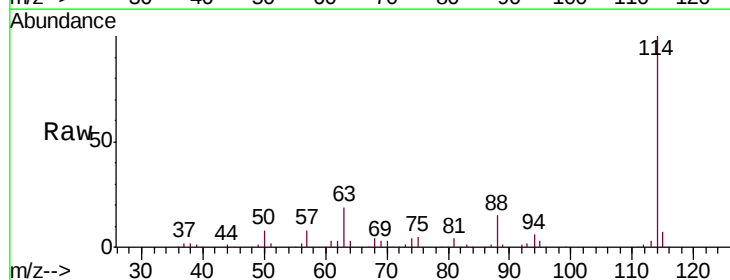
Instrument :
 MSVOA_N
 ClientSampled :
 40230

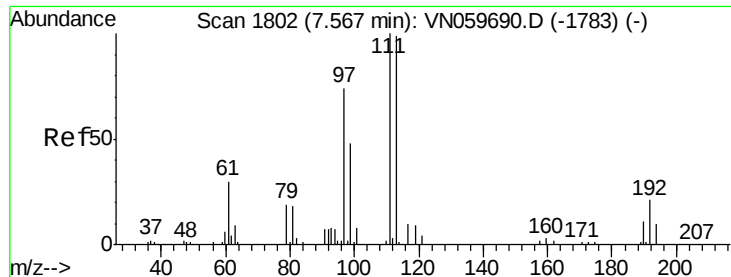
Tgt Ion: 65 Resp: 107445
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

Tgt Ion: 114 Resp: 300881
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 43.6
 88 14.9 0.0 31.4

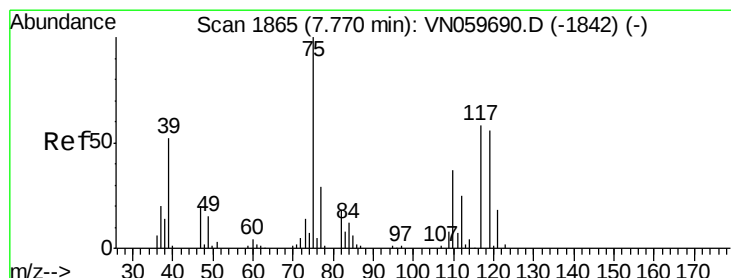
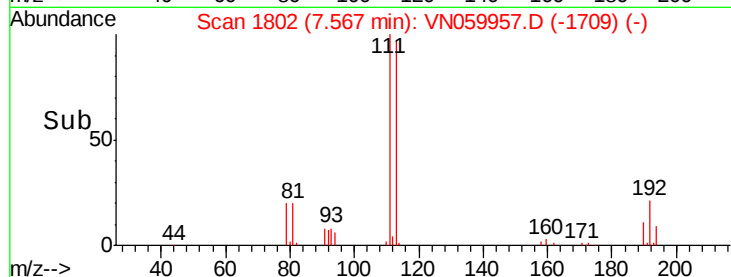
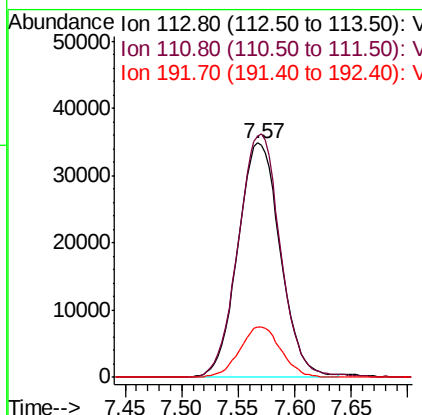
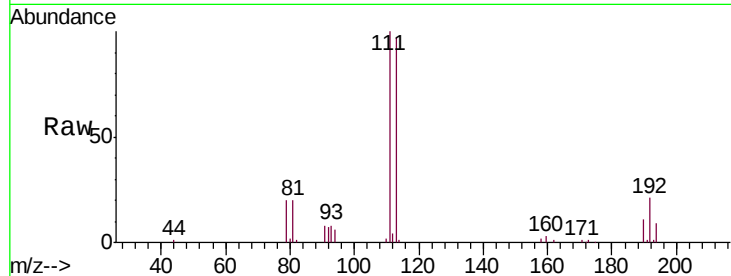




#35
 Dibromofluoromethane
 Concen: 50.740 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

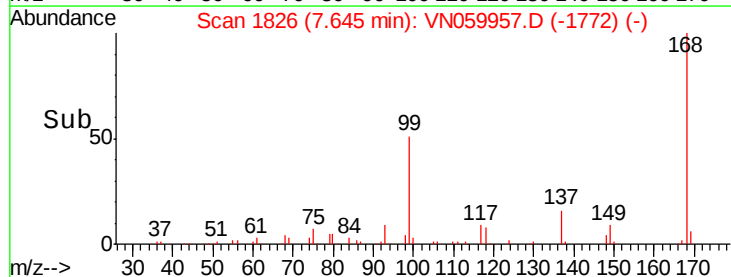
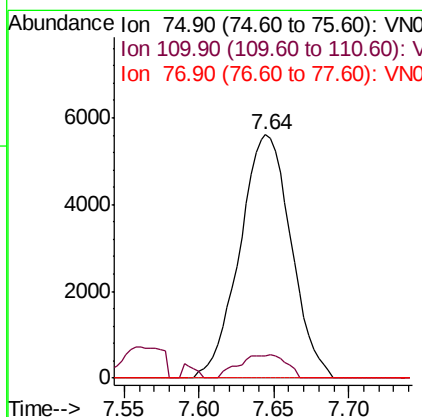
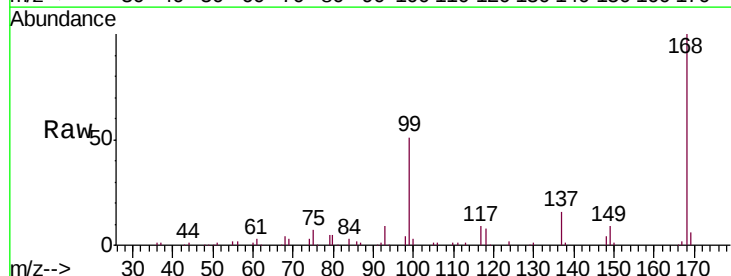
Instrument :
 MSVOA_N
 ClientSampleId :
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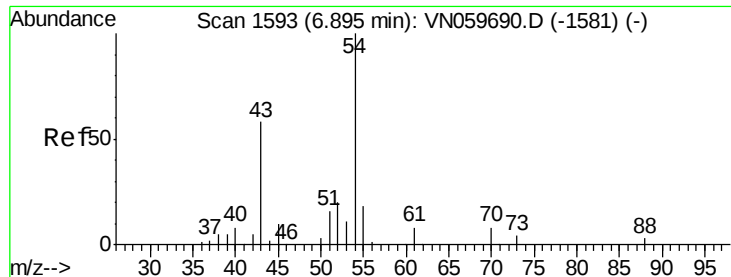
Tgt Ion: 113 Resp: 91042
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.5 125.3
 192 20.9 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.101 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

Tgt Ion: 75 Resp: 13366
 Ion Ratio Lower Upper
 75 100
 110 4.6 16.6 49.7#
 77 0.0 25.1 37.7#

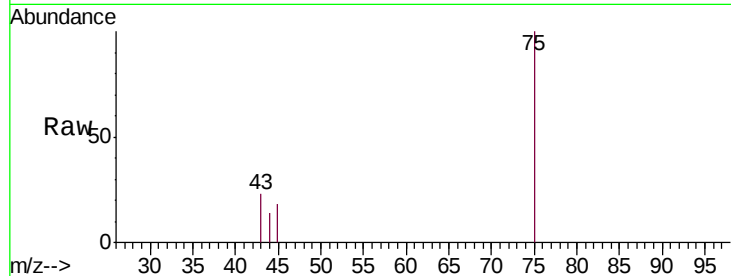




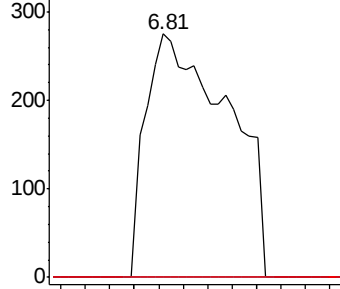
#37
 Ethyl Acetate
 Concen: 0.262 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.08 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 40230

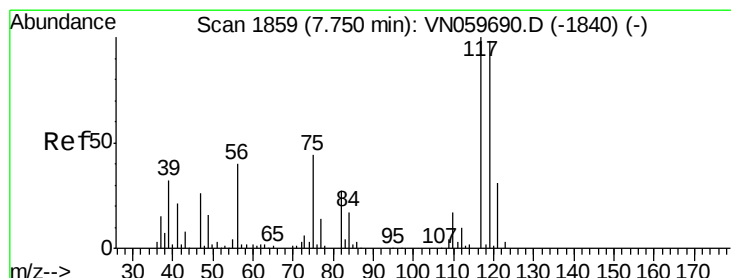
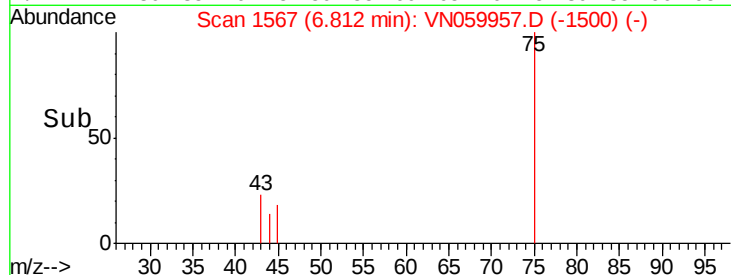
Tgt Ion: 43 Resp: 643
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

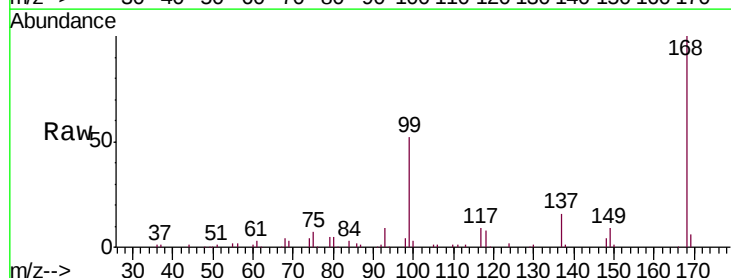


Time-->

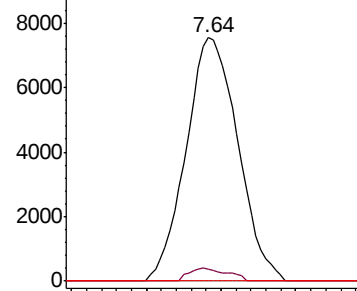


#38
 Carbon Tetrachloride
 Concen: 6.379 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

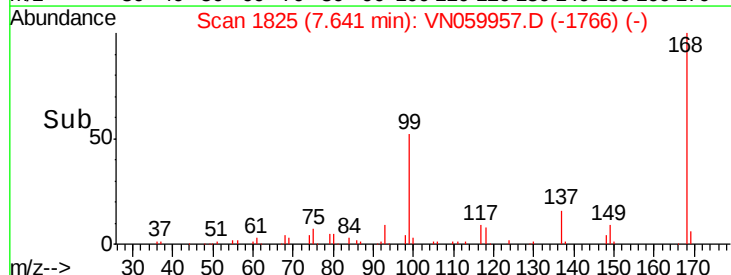
Tgt Ion: 117 Resp: 18182
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.5 114.7#
 121 0.0 25.1 37.7#

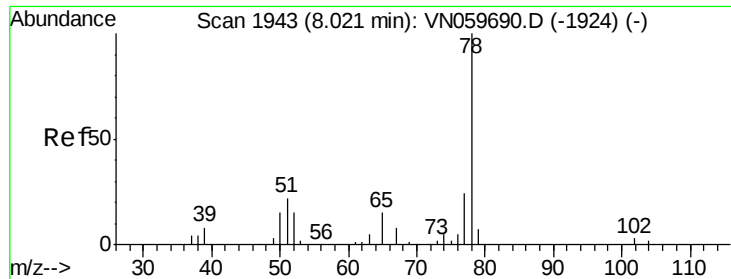


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V



Time-->





#40

Benzene

Concen: 0.449 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

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ClientSampleId :

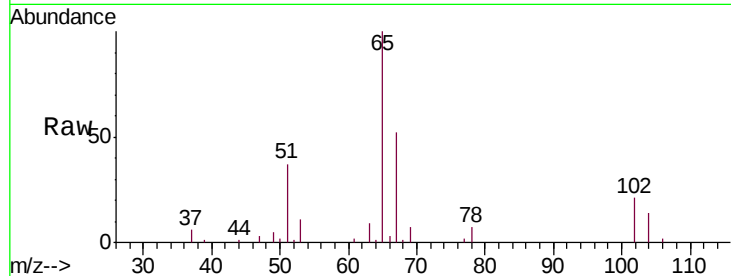
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Tgt Ion: 78 Resp: 3512

Ion Ratio Lower Upper

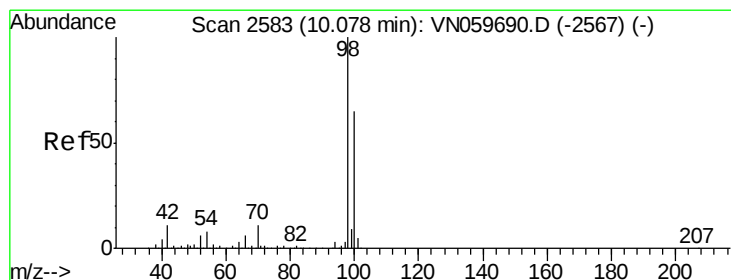
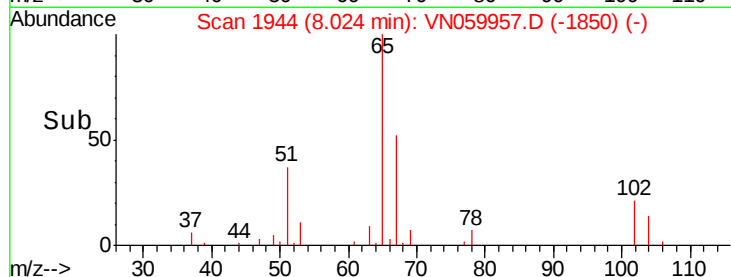
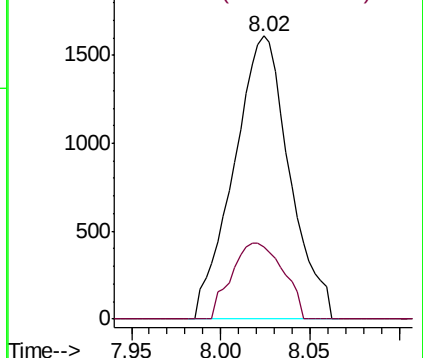
78 100

77 25.7 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 51.473 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059957.D

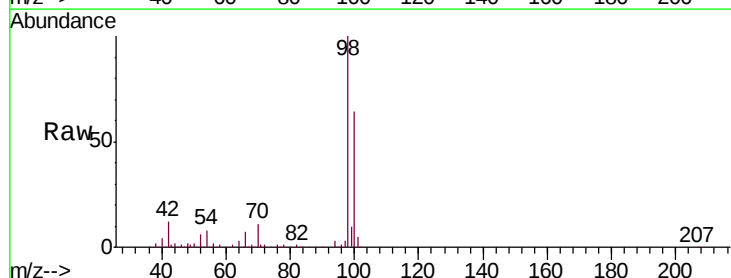
Acq: 31 Jan 2020 18:43

Tgt Ion: 98 Resp: 357839

Ion Ratio Lower Upper

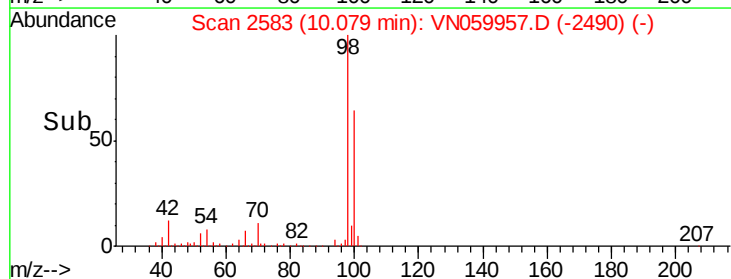
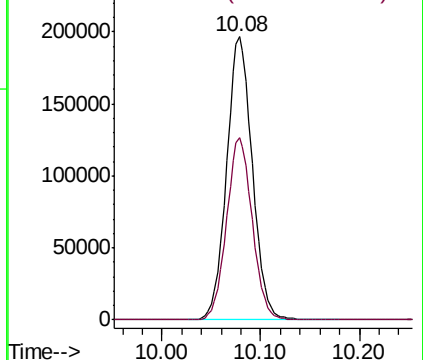
98 100

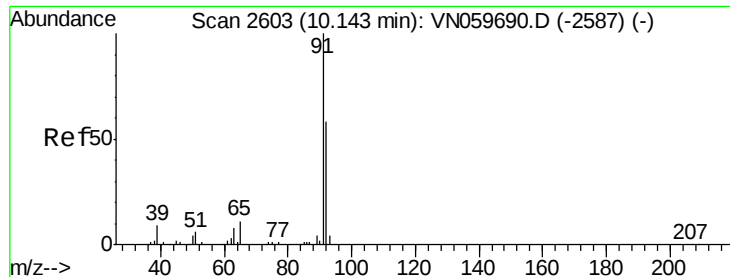
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 3.769 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

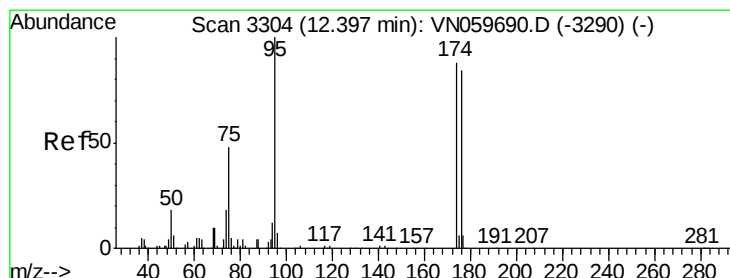
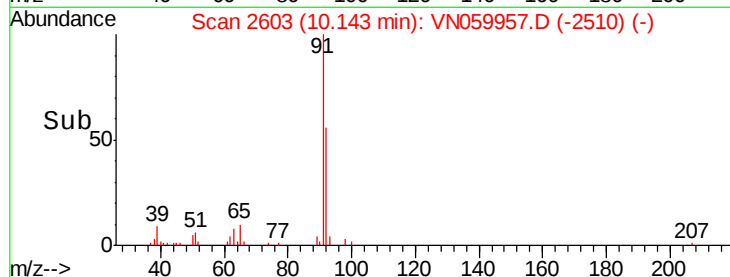
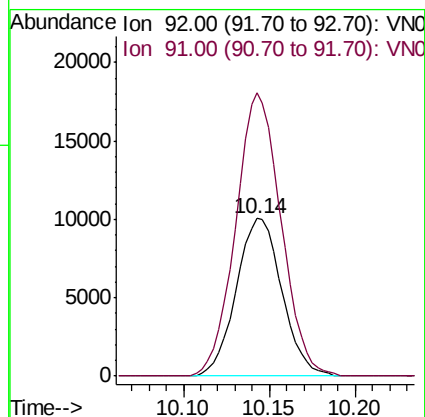
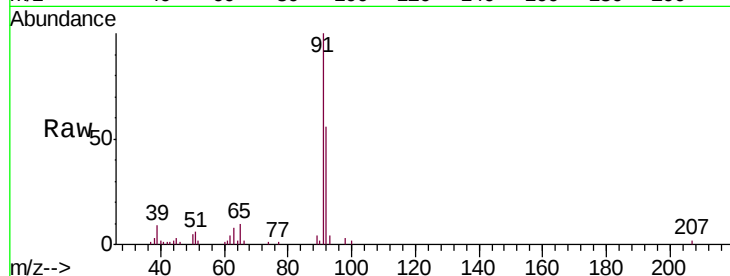
40230

Tgt Ion: 92 Resp: 18601

Ion Ratio Lower Upper

92 100

91 178.0 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 50.208 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

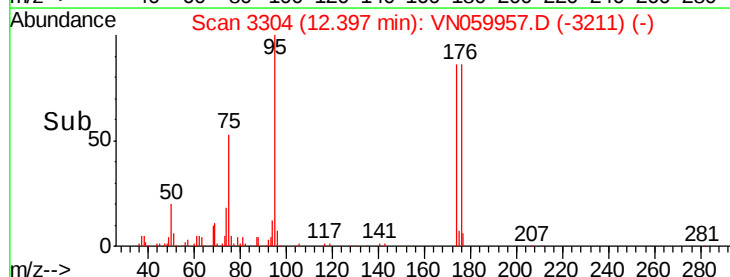
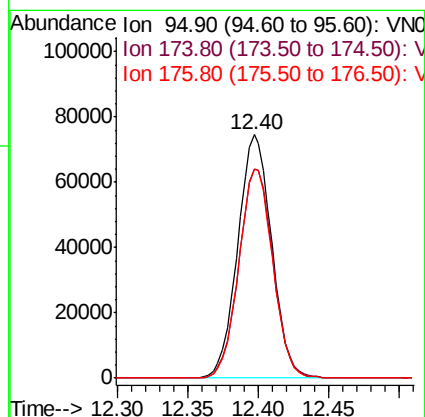
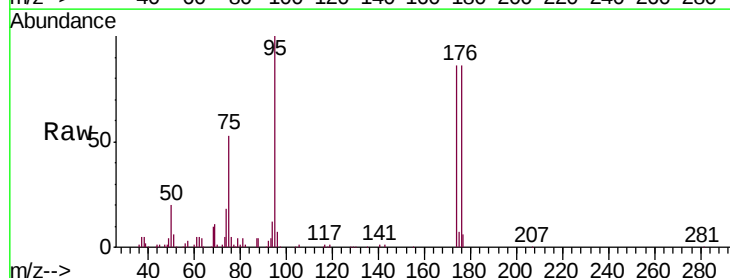
Tgt Ion: 95 Resp: 125829

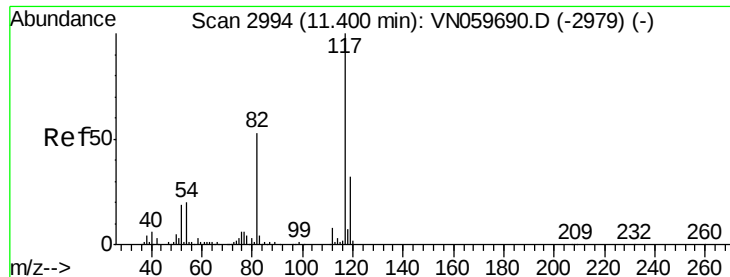
Ion Ratio Lower Upper

95 100

174 86.8 0.0 151.4

176 85.9 0.0 146.0

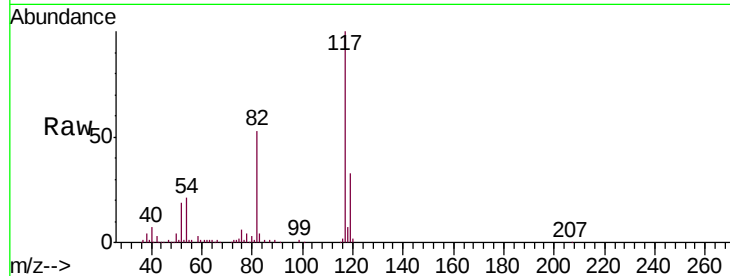




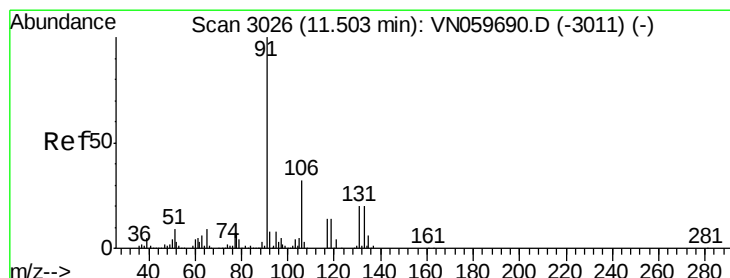
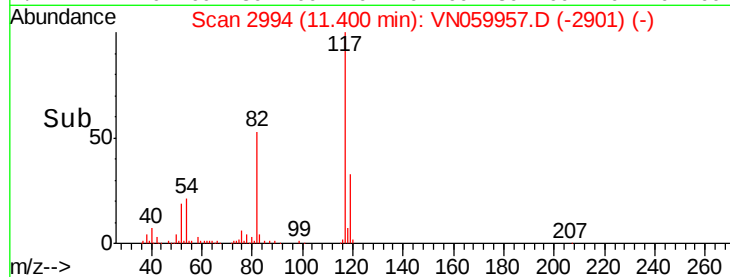
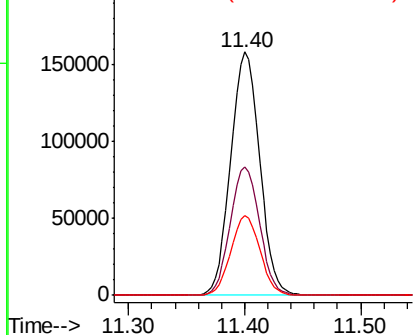
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

Instrument :
MSVOA_N
ClientSampled :
40230

Tgt Ion:117 Resp: 274355
Ion Ratio Lower Upper
117 100
82 52.9 45.9 68.9
119 32.9 25.5 38.3

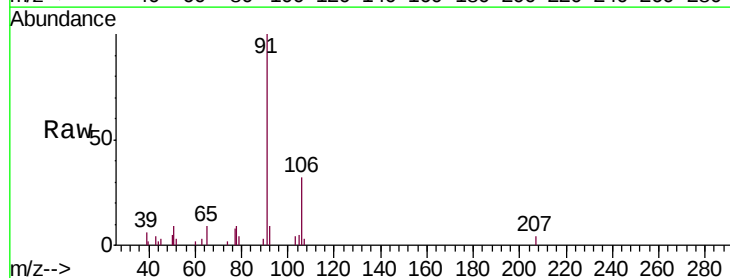


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

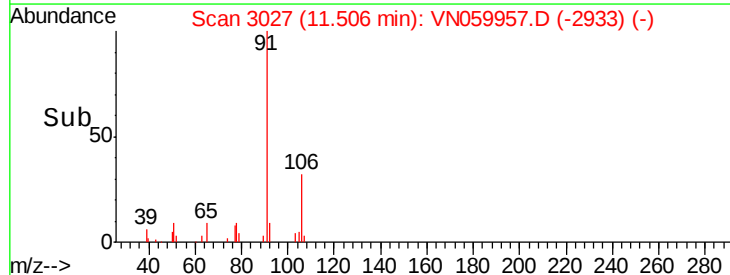
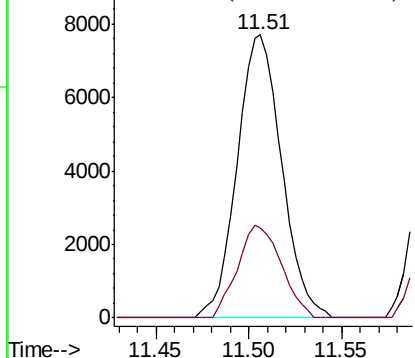


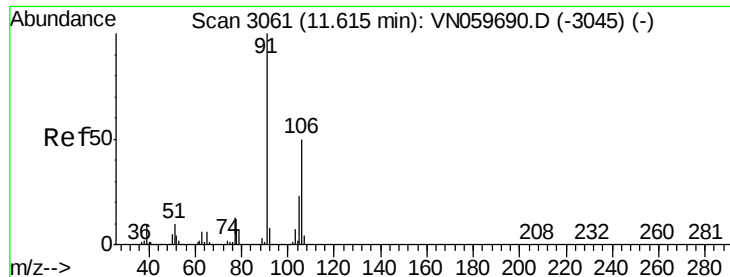
#67
Ethyl Benzene
Concen: 1.318 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

Tgt Ion: 91 Resp: 12904
Ion Ratio Lower Upper
91 100
106 31.8 24.1 36.1



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

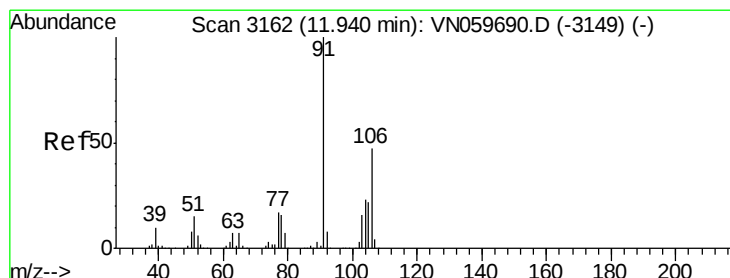
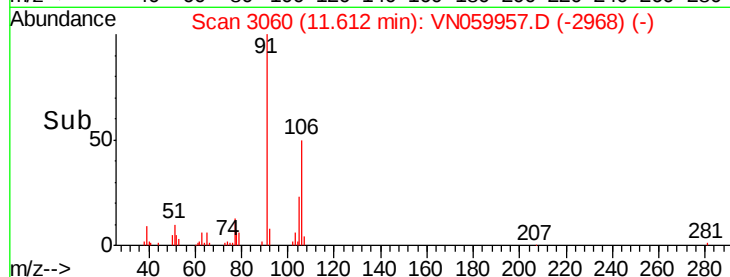
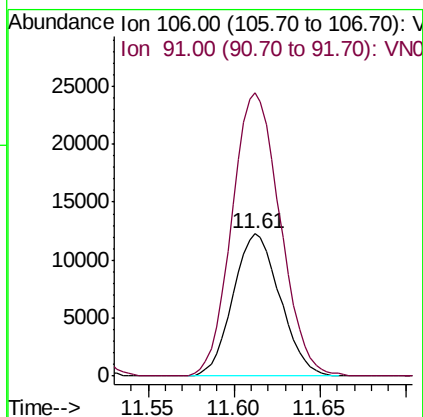
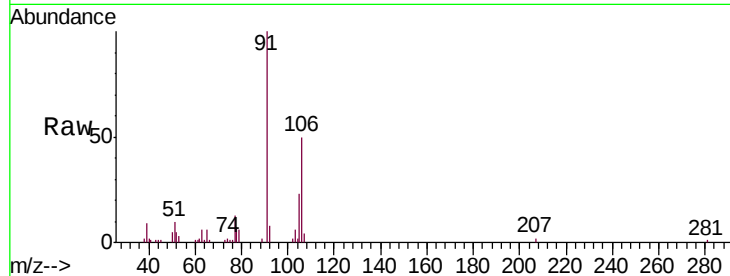




#68
m/p-Xylenes
Concen: 6.311 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

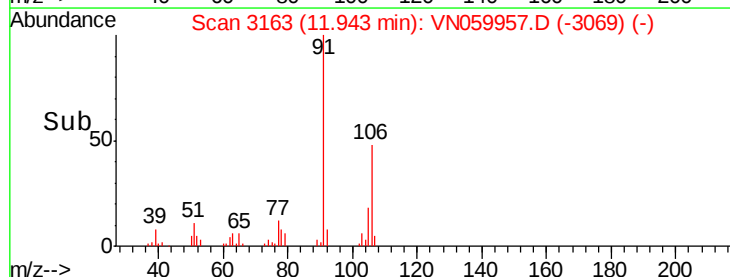
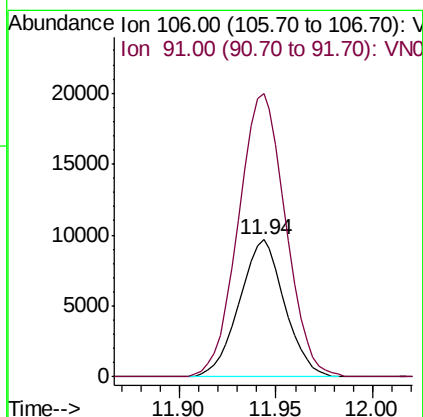
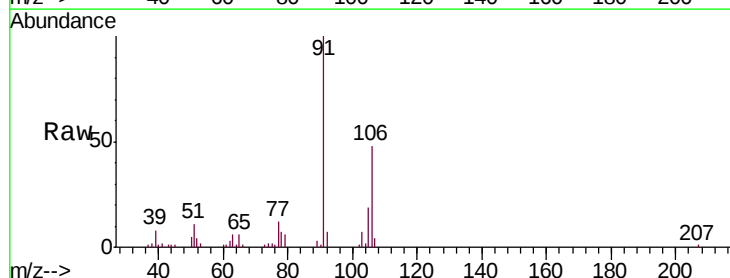
Instrument :
MSVOA_N
ClientSampled :
40230

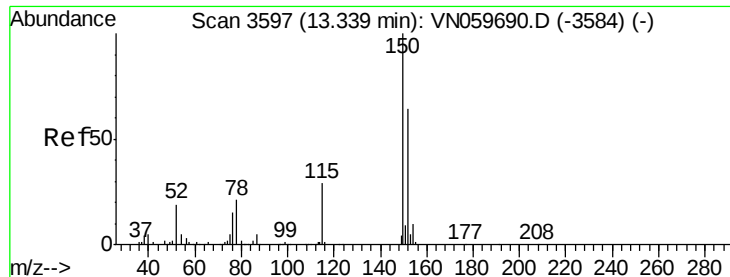
Tgt Ion:106 Resp: 23336
Ion Ratio Lower Upper
106 100
91 204.3 167.9 251.9



#69
o-Xylene
Concen: 4.351 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

Tgt Ion:106 Resp: 15751
Ion Ratio Lower Upper
106 100
91 215.4 110.3 330.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

40230

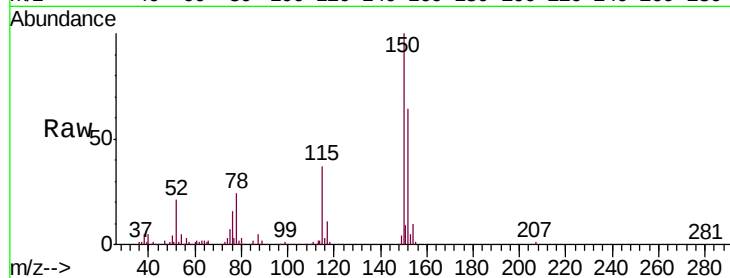
Tgt Ion:152 Resp: 128725

Ion Ratio Lower Upper

152 100

115 58.1 30.3 90.9

150 155.6 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

150000

100000

50000

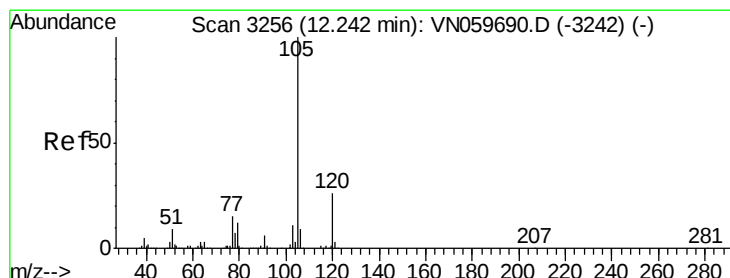
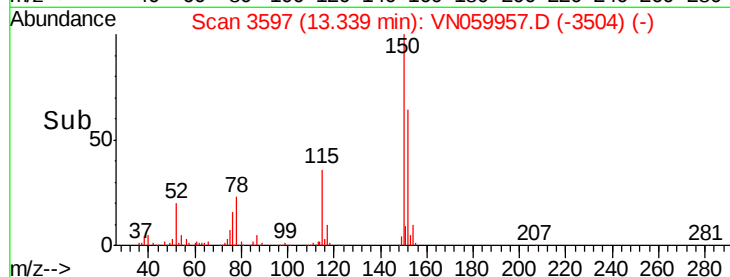
0

13.34

13.30

13.40

Time-->



#73

Isopropylbenzene

Concen: 0.203 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN059957.D

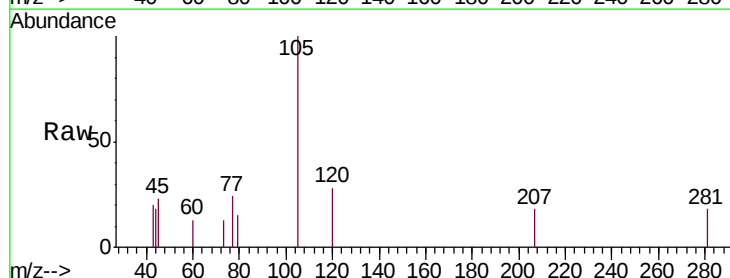
Acq: 31 Jan 2020 18:43

Tgt Ion:105 Resp: 1916

Ion Ratio Lower Upper

105 100

120 21.8 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1000

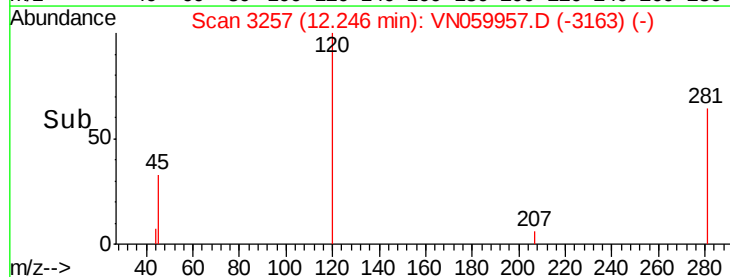
500

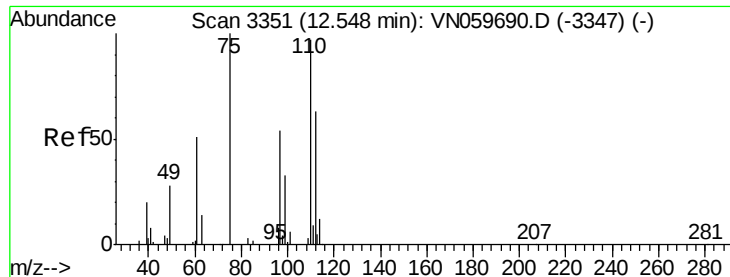
0

12.25

12.20

Time-->





#76

1,2,3-Trichloropropane

Concen: 30.011 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

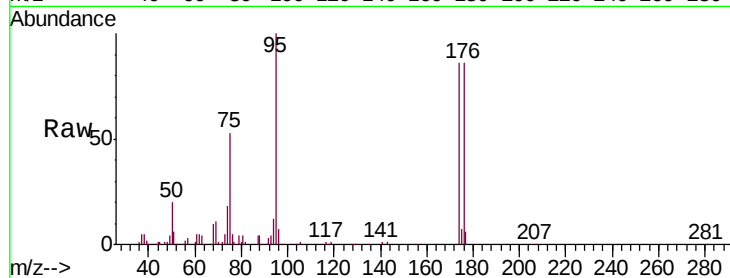
40230

Tgt Ion: 75 Resp: 65014

Ion Ratio Lower Upper

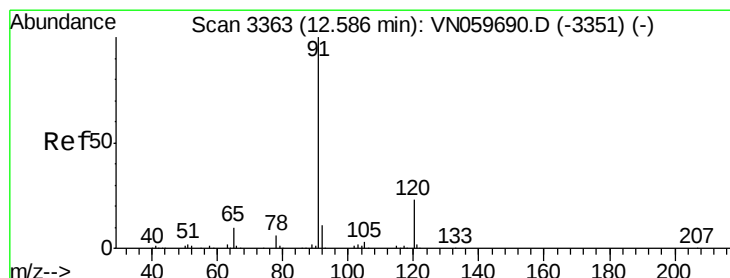
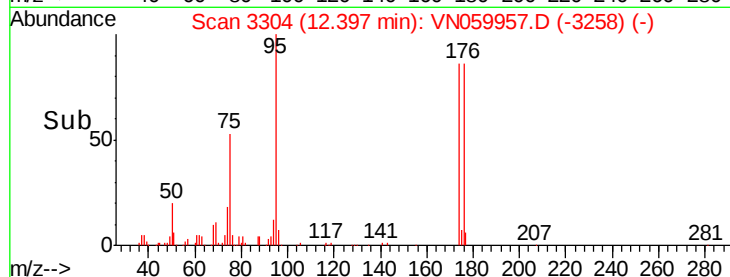
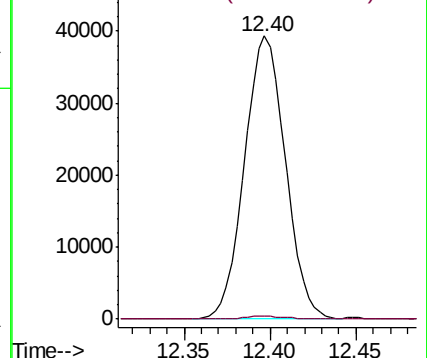
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#78

n-propylbenzene

Concen: 0.493 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN059957.D

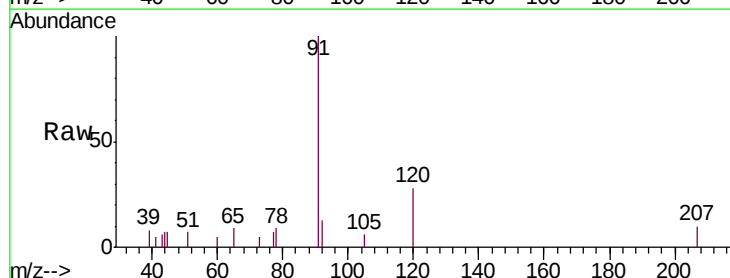
Acq: 31 Jan 2020 18:43

Tgt Ion: 91 Resp: 5221

Ion Ratio Lower Upper

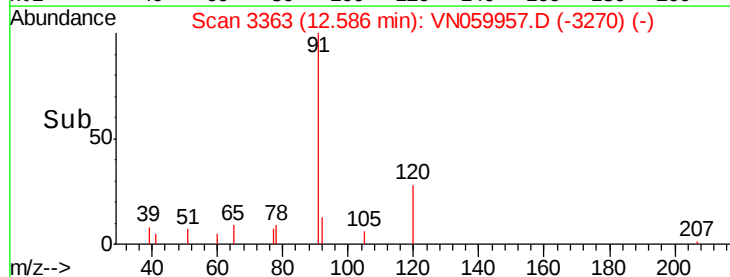
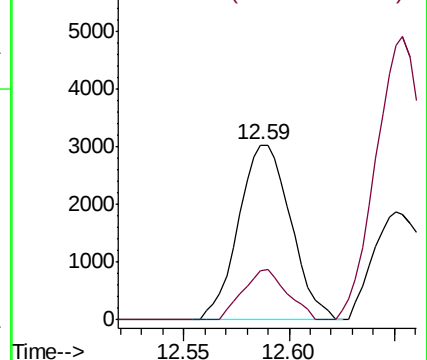
91 100

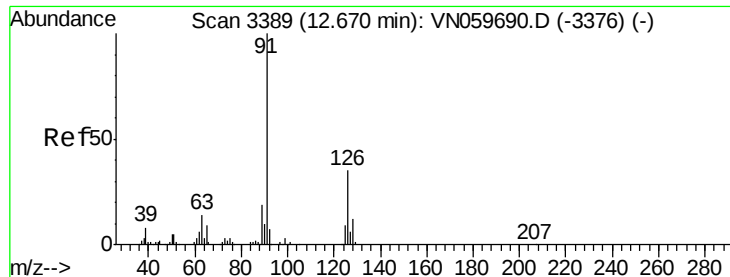
120 24.2 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

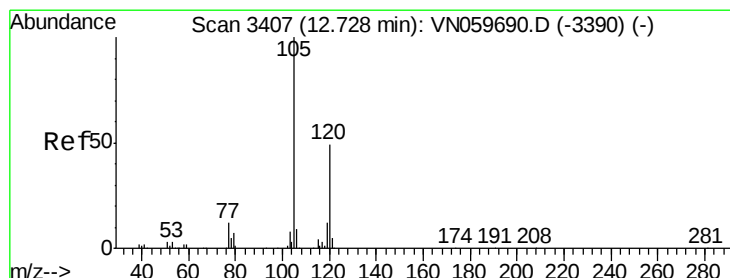
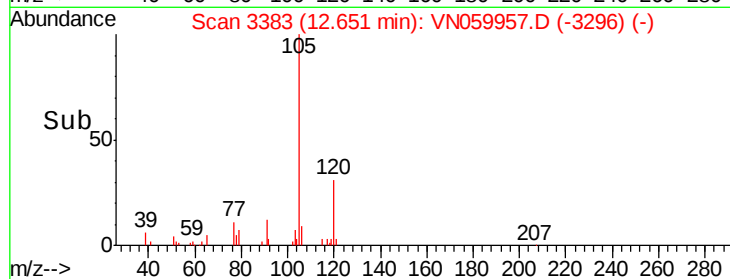
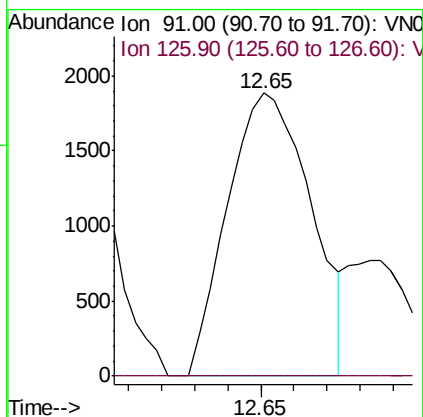
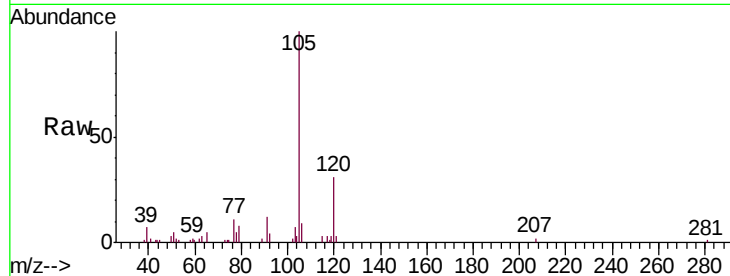




#79
 2-Chlorotoluene
 Concen: 0.524 ug/l
 RT: 12.65 min Scan# 3383
 Delta R.T. -0.02 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

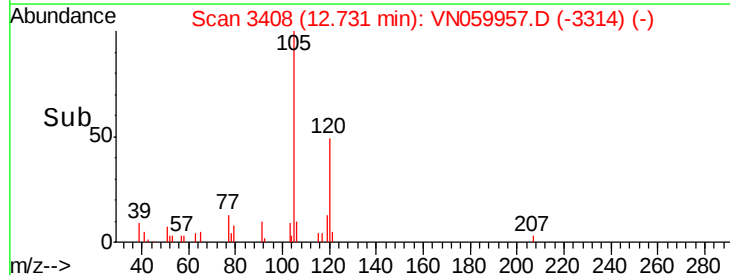
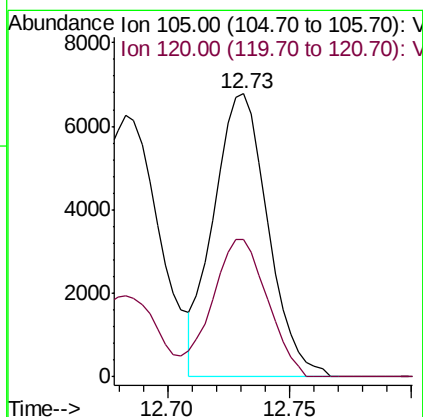
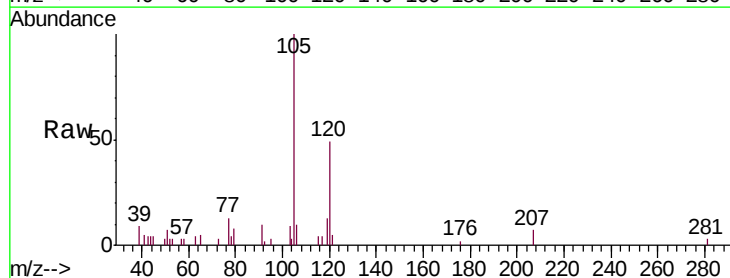
Instrument :
 MSVOA_N
 ClientSampled :
 40230

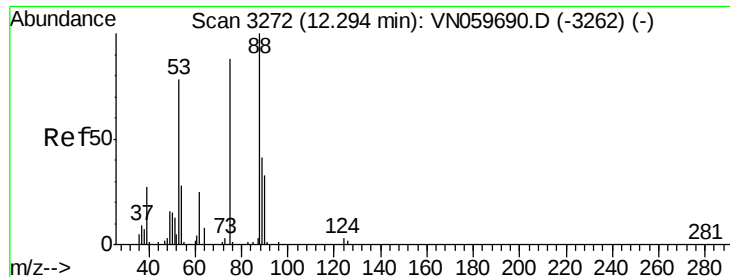
Tgt Ion: 91 Resp: 3300
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.3 48.9#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.327 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

Tgt Ion: 105 Resp: 10532
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.1 72.4

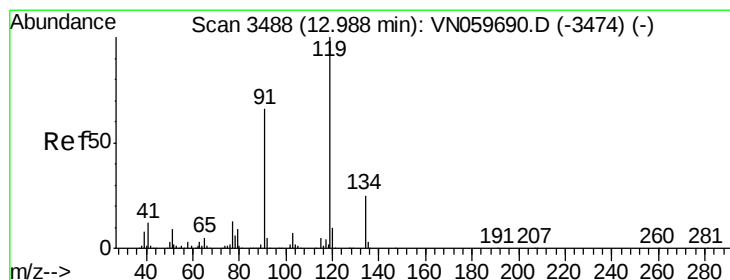
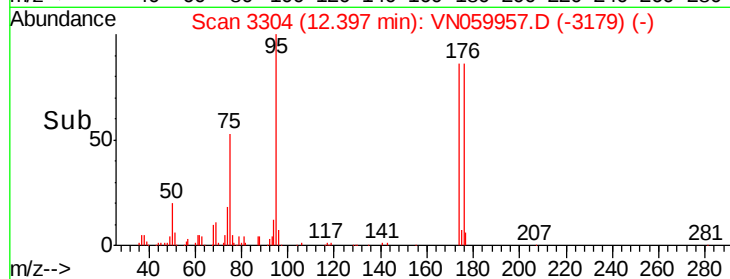
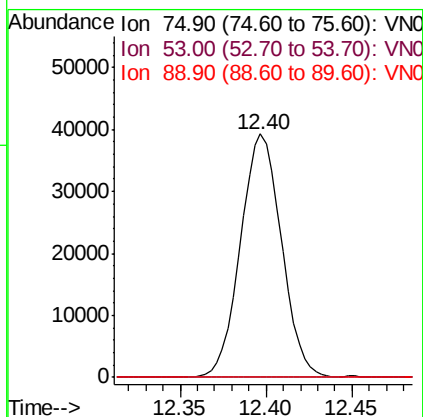
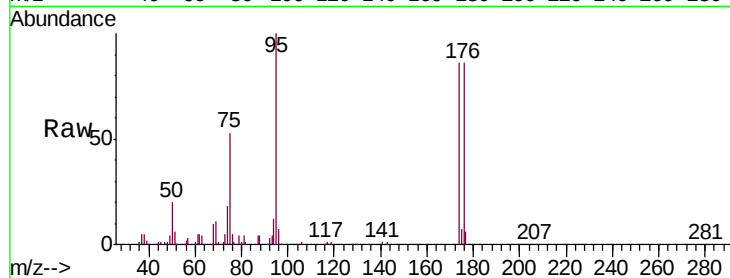




#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.450 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

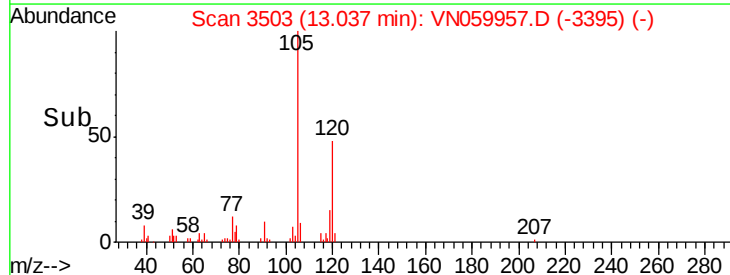
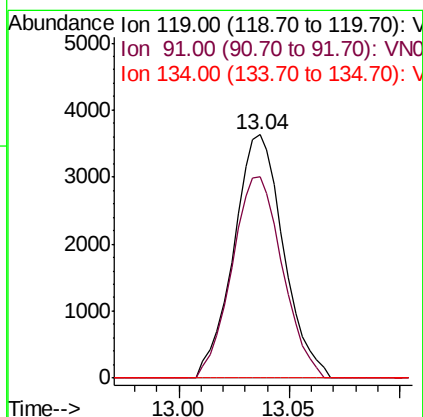
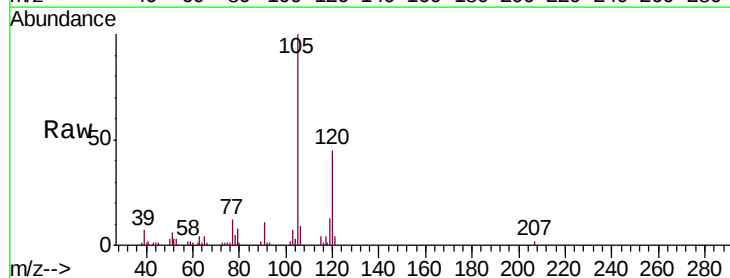
Instrument :
 MSVOA_N
 ClientSampled :
 40230

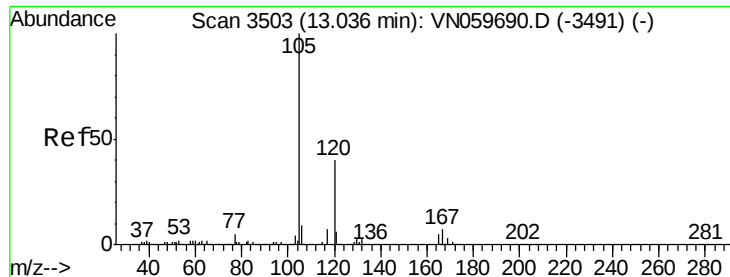
Tgt Ion: 75 Resp: 65014
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#



#83
 tert-Butylbenzene
 Concen: 0.827 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.05 min
 Lab File: VN059957.D
 Acq: 31 Jan 2020 18:43

Tgt Ion: 119 Resp: 5677
 Ion Ratio Lower Upper
 119 100
 91 83.7 34.8 104.4
 134 0.0 12.3 36.9#





#84

1,2,4-Trimethylbenzene

Concen: 5.724 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

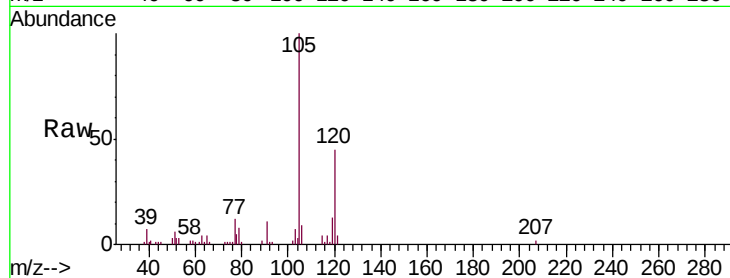
40230

Tgt Ion:105 Resp: 44959

Ion Ratio Lower Upper

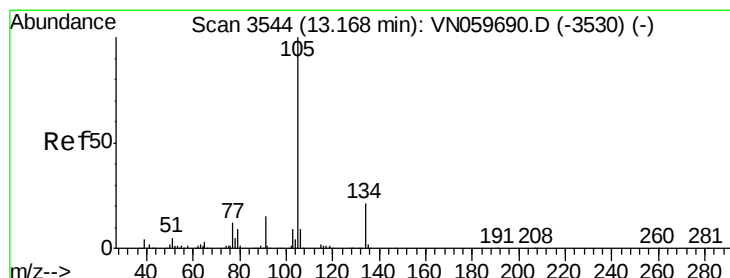
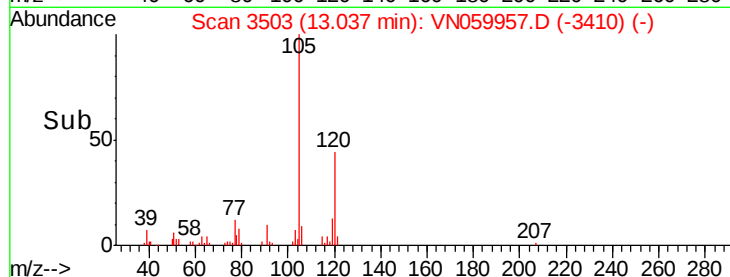
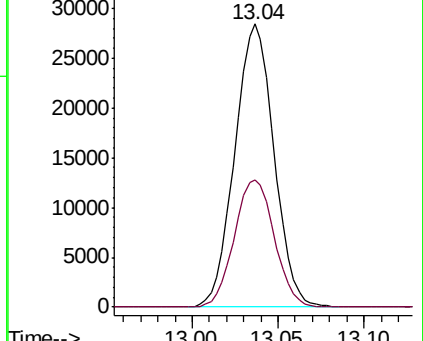
105 100

120 45.7 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 4.983 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.13 min

Lab File: VN059957.D

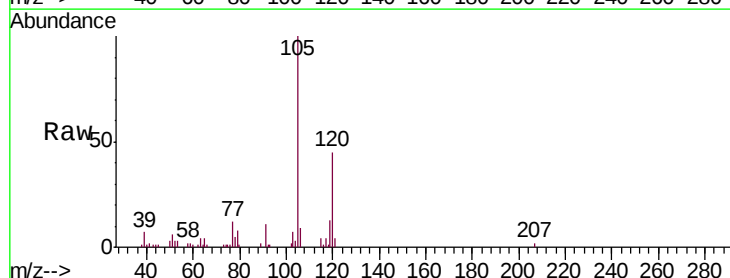
Acq: 31 Jan 2020 18:43

Tgt Ion:105 Resp: 44959

Ion Ratio Lower Upper

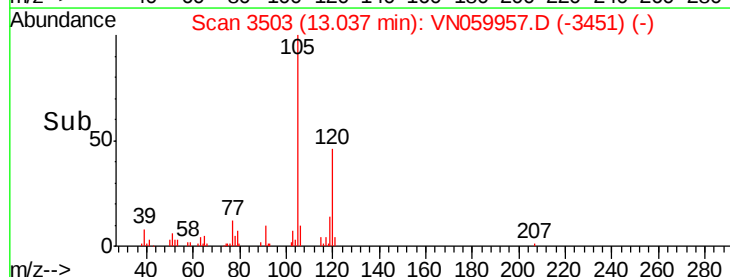
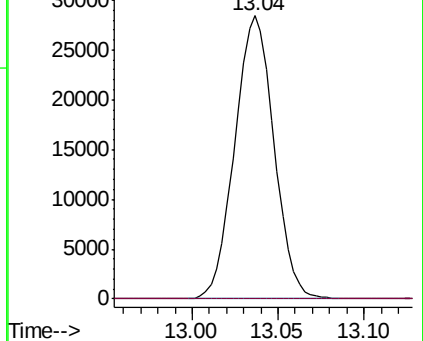
105 100

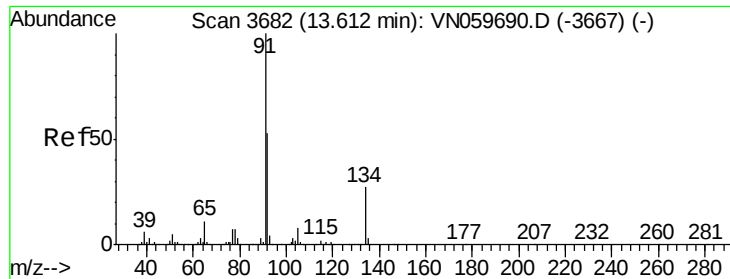
134 0.0 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

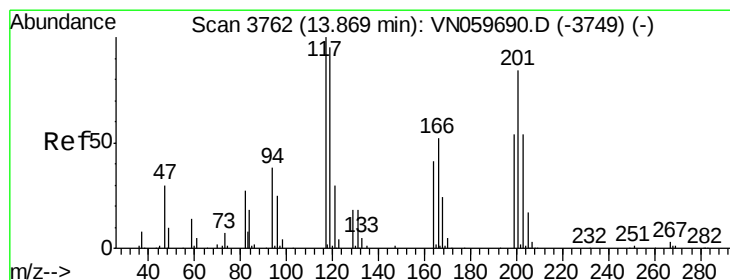
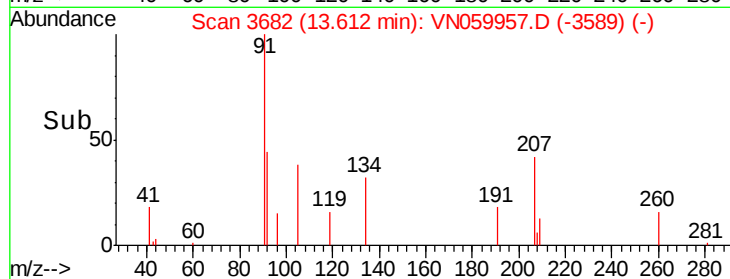
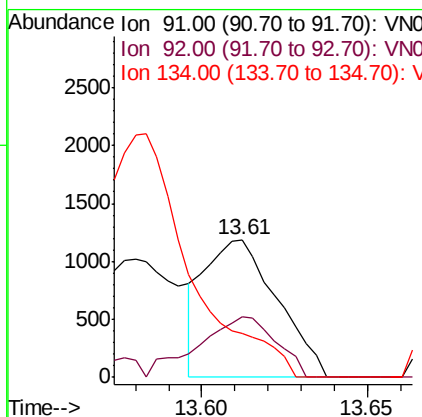
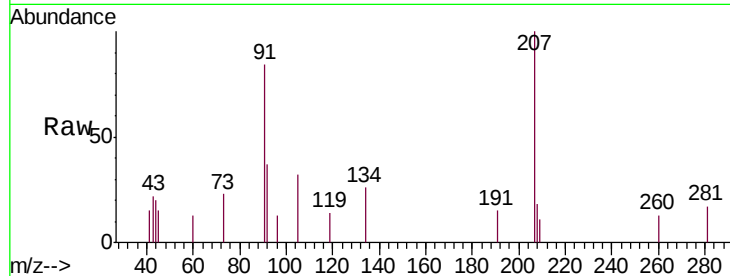




#89
n-Butylbenzene
Concen: 0.254 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

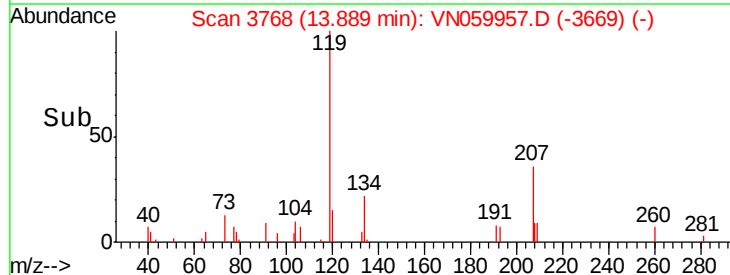
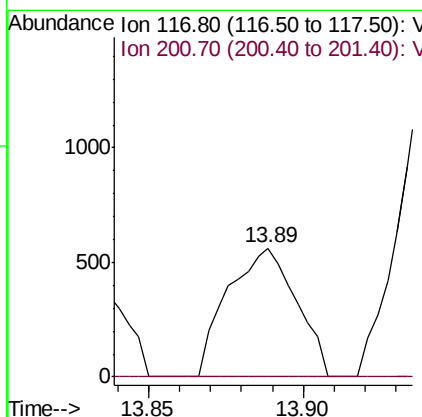
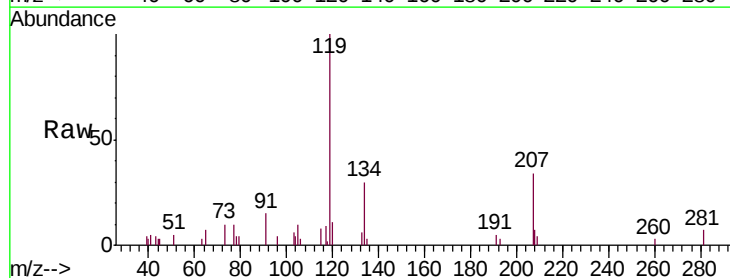
Instrument :
MSVOA_N
ClientSampled :
40230

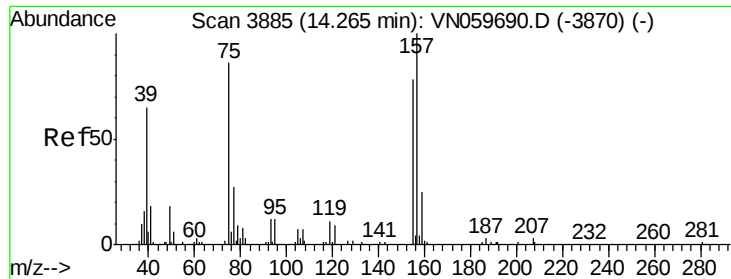
Tgt Ion: 91 Resp: 1809
Ion Ratio Lower Upper
91 100
92 46.8 25.9 77.7
134 0.0 12.3 36.8#



#90
Hexachloroethane
Concen: 0.558 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.02 min
Lab File: VN059957.D
Acq: 31 Jan 2020 18:43

Tgt Ion: 117 Resp: 871
Ion Ratio Lower Upper
117 100
201 0.0 37.8 113.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.33 min Scan# 3905

Delta R.T. 0.07 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

40230

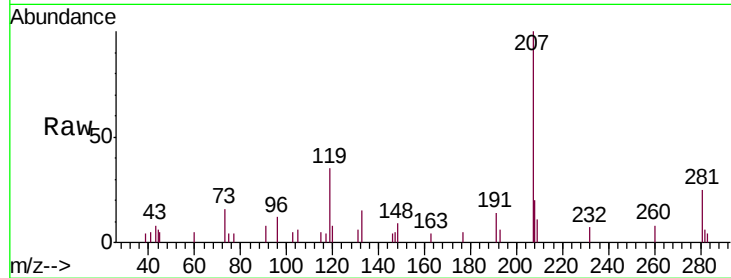
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

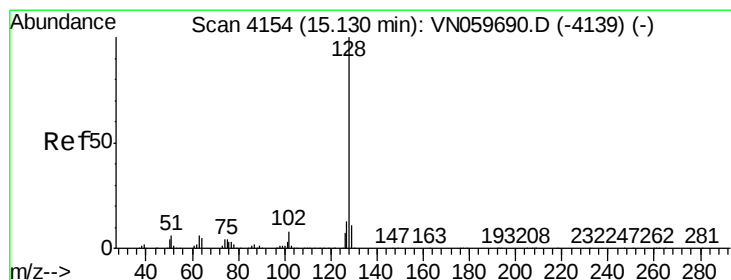
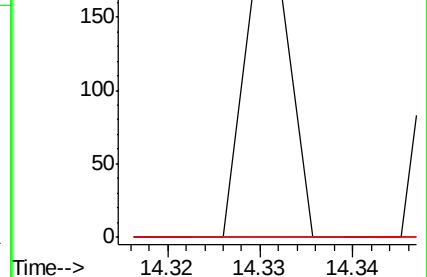
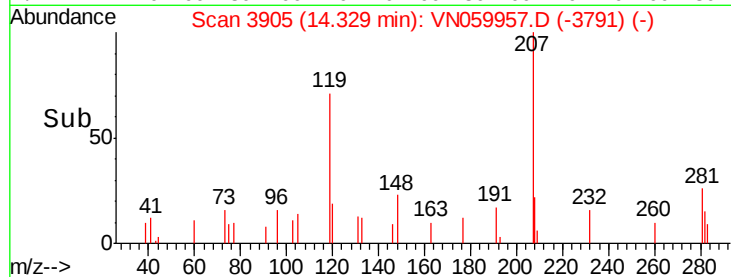
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059957.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059957.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059957.D (-3791) (-)



#95

Naphthalene

Concen: 1.843 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059957.D

Acq: 31 Jan 2020 18:43

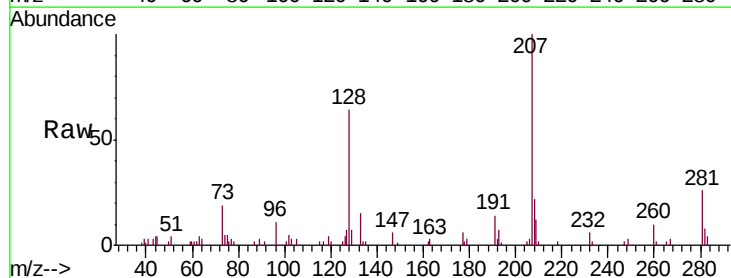
Tgt Ion: 128 Resp: 12933

Ion Ratio Lower Upper

128 100

127 12.2 10.4 15.6

129 11.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN059957.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN059957.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN059957.D (-4061) (-)

