

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056683.D
 Acq On : 12 Jul 2019 12:06
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Jul 13 00:08:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	54165	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	292754	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	234856	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110236	30.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.17%
60) 4-Bromofluorobenzene	12.40	95	86733	24.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.43%
63) Toluene-d8	10.09	98	337162	31.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	666	0.216 ug/l	84
5) Bromomethane	2.56	94	1650	0.647 ug/l	91
11) Methyl Iodide	3.96	142	2429	0.572 ug/l #	87
12) Methyl Acetate	4.34	43	2651	0.620 ug/l	97
13) Acrolein	3.61	56	435	1.443 ug/l #	55
14) Acrylonitrile	5.01	53	1401	0.744 ug/l #	75
16) Carbon Disulfide	4.05	76	9238	1.096 ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	823	0.241 ug/l #	70
29) 1,1-Dichloropropene	7.79	75	1477	0.317 ug/l #	46
30) 2-Butanone	6.86	43	689	0.256 ug/l #	68
37) Trichloroethene	8.84	130	1455	0.375 ug/l #	79
38) Methylcyclohexane	9.08	83	1679	0.286 ug/l	92
40) Dibromomethane	9.21	93	564	0.231 ug/l	91
45) 1,4-Dioxane	9.20	88	158	2.057 ug/l #	78
47) n-amyl Acetate	12.07	43	2723	0.438 ug/l #	86
55) 2-Chloroethyl vinyl ether	9.70	63	1055	0.398 ug/l #	68
58) 4-Methyl-2-Pentanone	9.98	43	1316	0.298 ug/l #	43
59) 2-Hexanone	10.75	43	5275	1.572 ug/l	91
61) Tetrachloroethene	10.63	164	1992	0.590 ug/l	99
64) Chlorobenzene	11.44	112	2674	0.318 ug/l	99
66) Ethyl Benzene	11.51	91	3138	0.210 ug/l	93
67) m/p-Xylenes	11.62	106	2690	0.478 ug/l	94
68) o-Xylene	11.62	106	2690	0.490 ug/l	97
69) Styrene	11.96	104	2389	0.263 ug/l #	88
70) Isopropylbenzene	12.25	105	3535	0.246 ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	1073	0.230 ug/l #	80
72) 1,2,3-Trichloropropane	12.55	75	1465	0.367 ug/l	89
73) Bromobenzene	12.53	156	1524	0.405 ug/l	80
74) n-propylbenzene	12.59	91	5800	0.357 ug/l	99
75) 2-Chlorotoluene	12.68	91	3814	0.390 ug/l	69
76) 1,3,5-Trimethylbenzene	12.73	105	4193	0.342 ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	40625	30.622 ug/l #	11
78) 4-Chlorotoluene	12.77	91	4976	0.525 ug/l	93
79) tert-butylbenzene	12.99	119	3519	0.337 ug/l	90
80) 1,2,4-Trimethylbenzene	13.04	105	4641	0.381 ug/l	92
81) sec-Butylbenzene	13.17	105	6166	0.446 ug/l	96
82) p-Isopropyltoluene	13.29	119	5947	0.473 ug/l	97

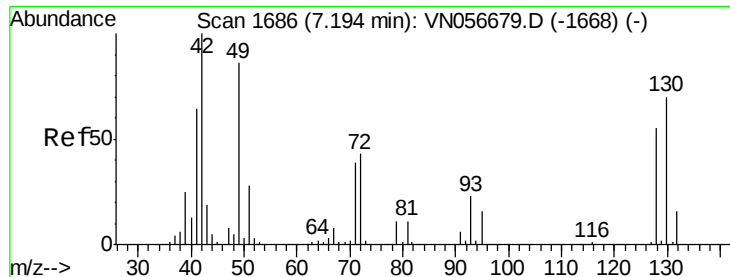
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
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Quant Time: Jul 13 00:08:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) 1,3-Dichlorobenzene	13.28	146	4945	0.789	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	5272	0.878	ug/l	95
85) n-Butylbenzene	13.61	91	6600	0.637	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	5766	0.916	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	527	0.654	ug/l	86
89) 1,2,4-Trichlorobenzene	14.90	180	11256	3.323	ug/l	97
90) Hexachlorobutadiene	15.01	225	3280	1.489	ug/l	92
91) Naphthalene	15.13	128	34322	3.768	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	16499	4.646	ug/l	97

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

I.BLK

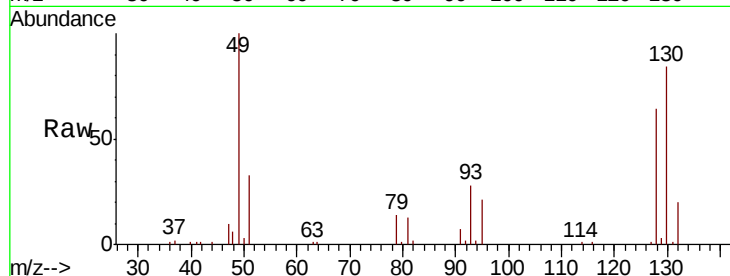
Tot Ion:128 Resp: 54165

Ion Ratio Lower Upper

128 100

49 154.6 0.0 390.5

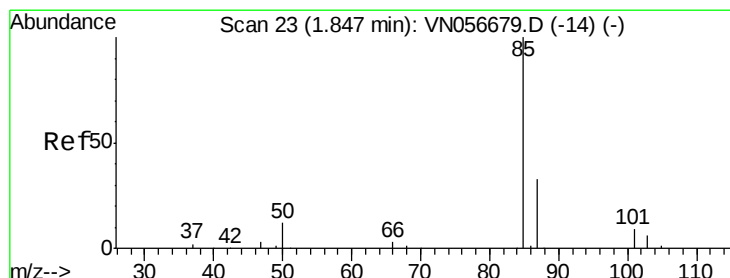
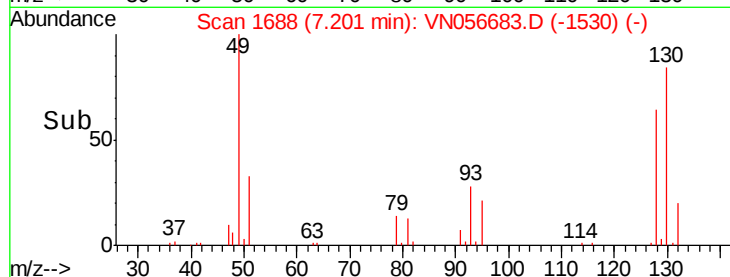
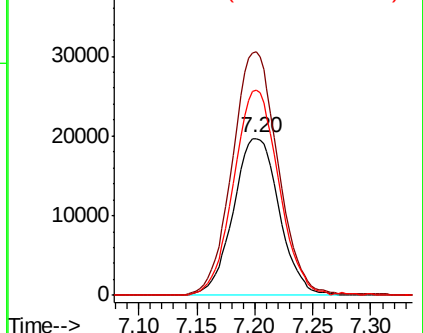
130 128.6 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.216 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN056683.D

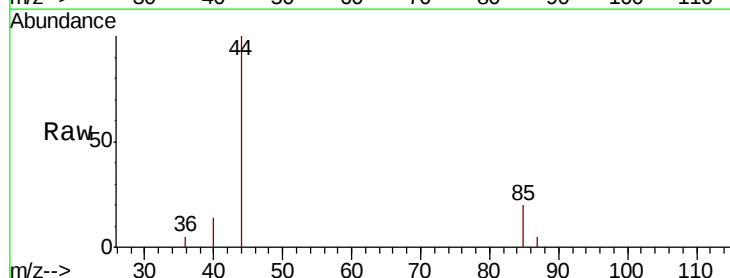
Acq: 12 Jul 2019 12:06

Tgt Ion: 85 Resp: 666

Ion Ratio Lower Upper

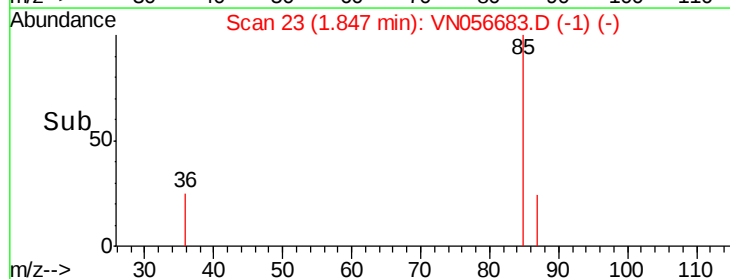
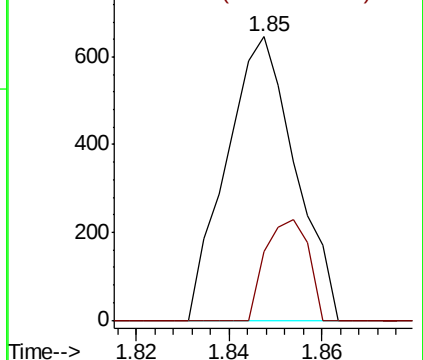
85 100

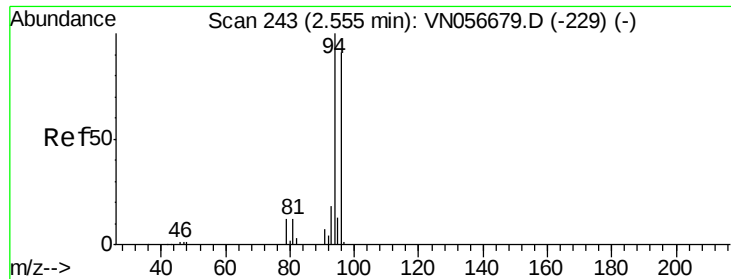
87 24.1 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#5

Bromomethane

Concen: 0.647 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

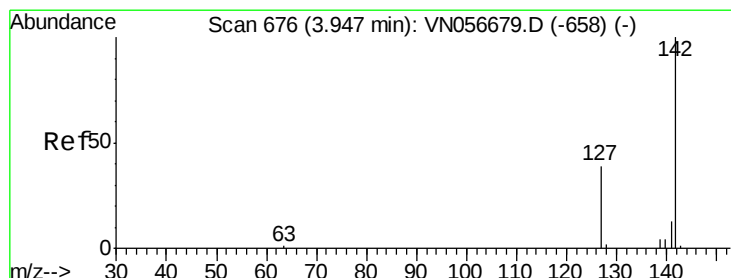
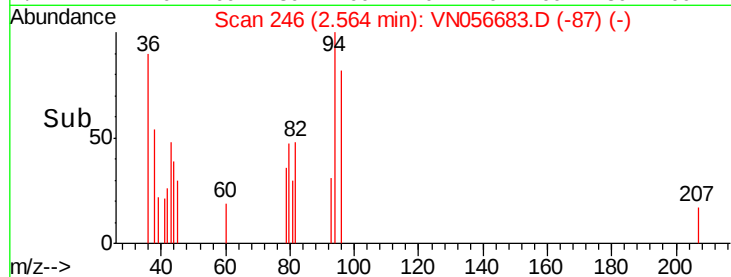
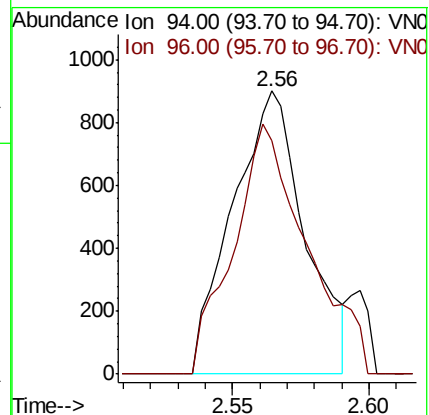
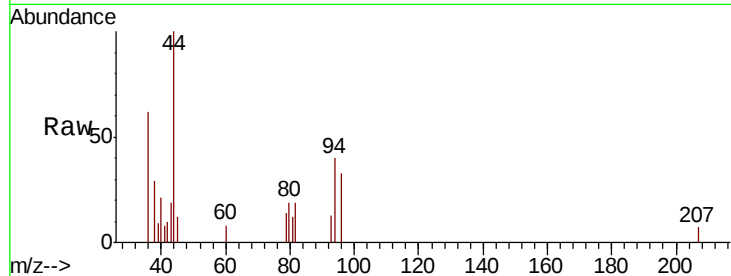
I.BLK

Tot Ion: 94 Resp: 1650

Ion Ratio Lower Upper

94 100

96 82.3 72.8 109.2



#11

Methyl Iodide

Concen: 0.572 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

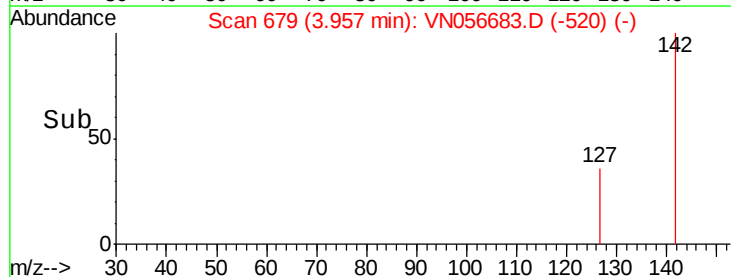
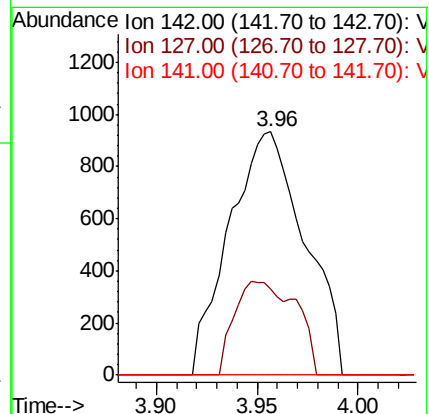
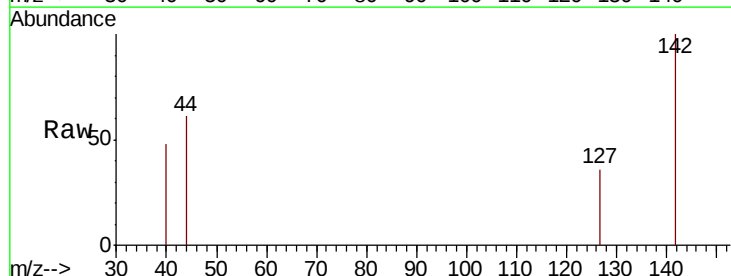
Tgt Ion: 142 Resp: 2429

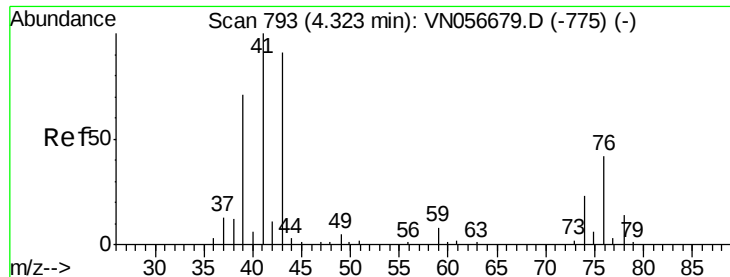
Ion Ratio Lower Upper

142 100

127 35.7 19.5 58.5

141 0.0 6.8 20.3#

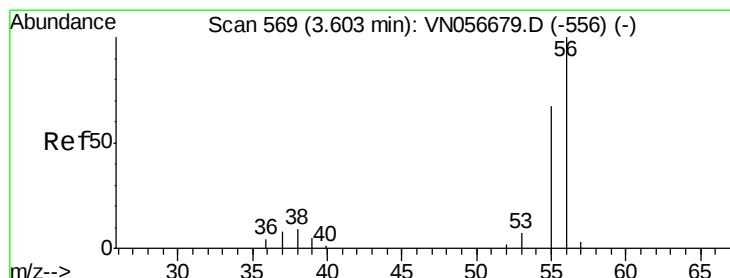
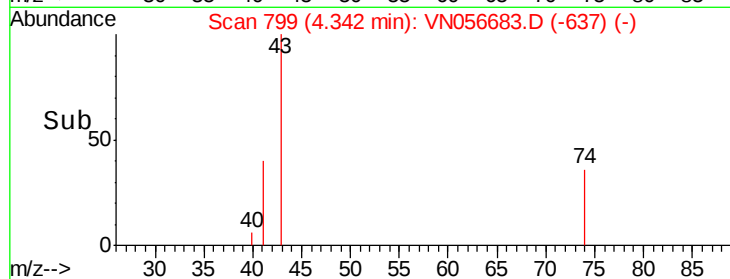
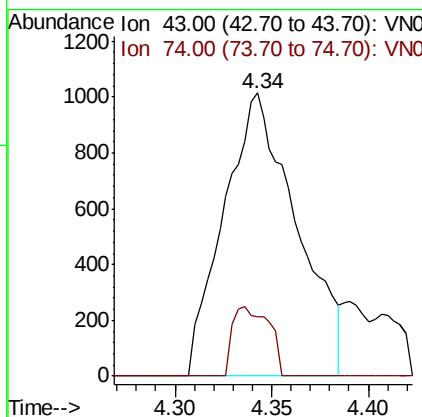
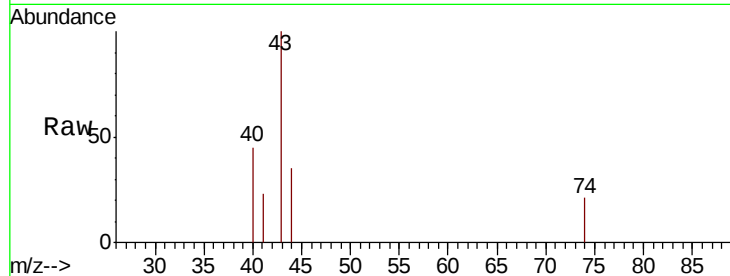




#12
Methvl Acetate
Concen: 0.620 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

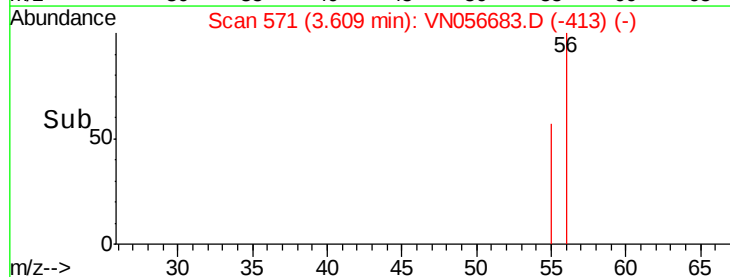
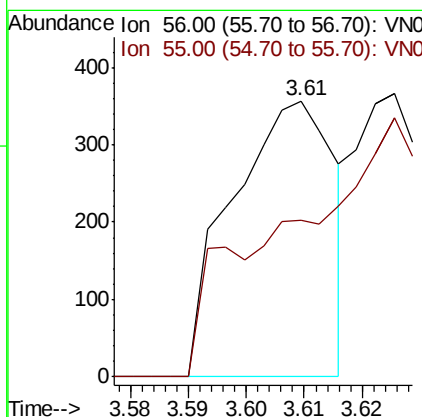
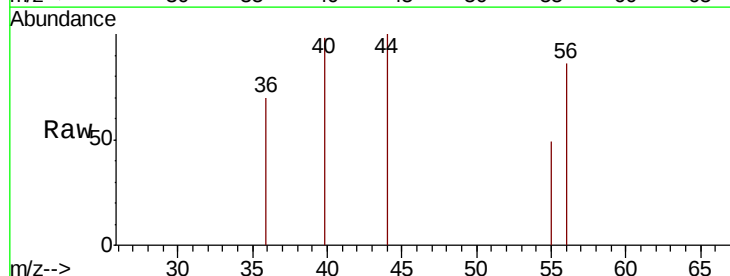
Instrument :
MSVOA_N
ClientSampled :
I.BLK

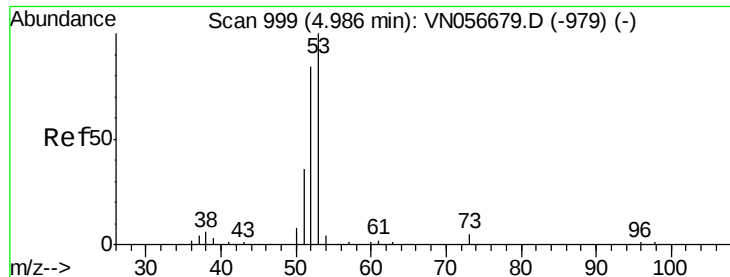
Tot Ion: 43 Resp: 2651
Ion Ratio Lower Upper
43 100
74 23.8 20.2 30.4



#13
Acrolein
Concen: 1.443 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.01 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion: 56 Resp: 435
Ion Ratio Lower Upper
56 100
55 34.3 56.9 85.3#





#14

Acrylonitrile

Concen: 0.744 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.03 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

I.BLK

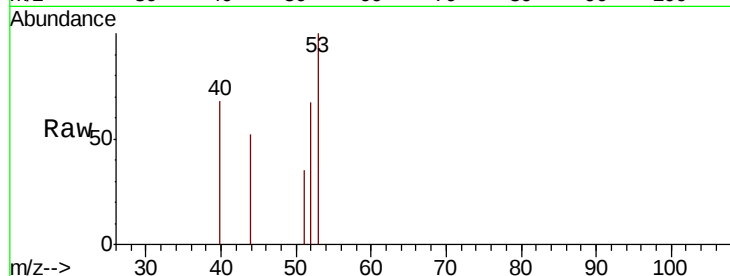
Tot Ion: 53 Resp: 1401

Ion Ratio Lower Upper

53 100

52 64.2 41.3 123.7

51 14.5 17.7 53.1#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

5.01

600

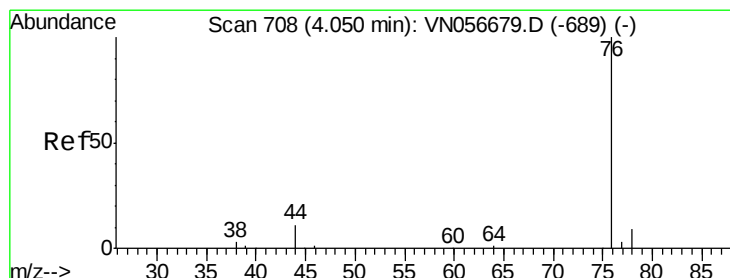
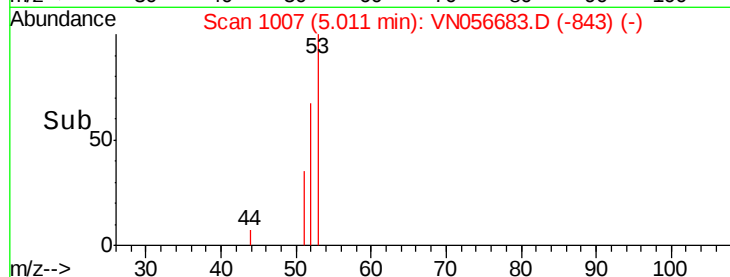
400

200

0

4.96 4.98 5.00 5.02 5.04

Time-->



#16

Carbon Disulfide

Concen: 1.096 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN056683.D

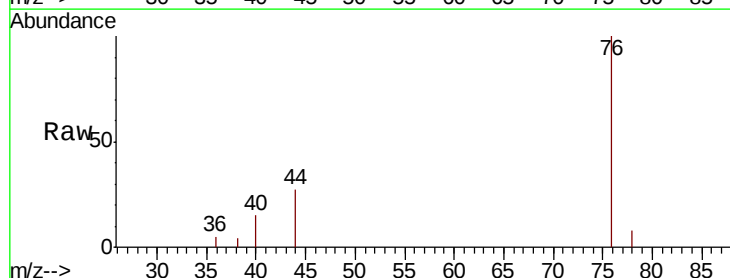
Acq: 12 Jul 2019 12:06

Tgt Ion: 76 Resp: 9238

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

4000

3000

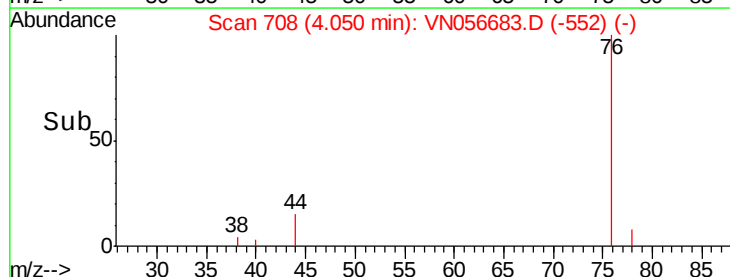
2000

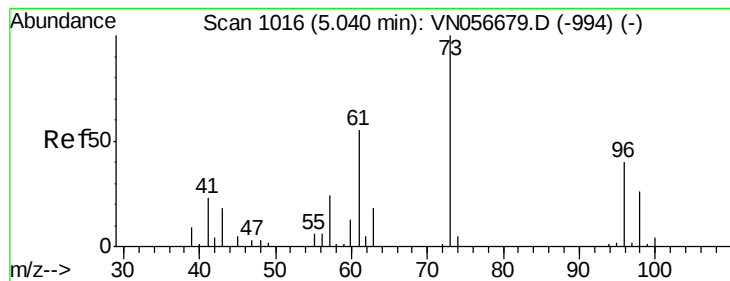
1000

0

4.00 4.05 4.10

Time-->





#19

trans-1,2-Dichloroethene

Concen: 0.241 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

I.BLK

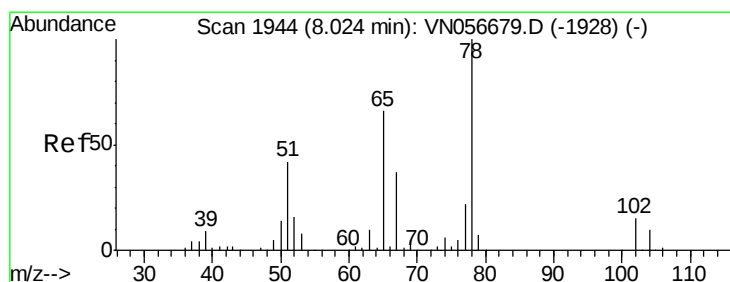
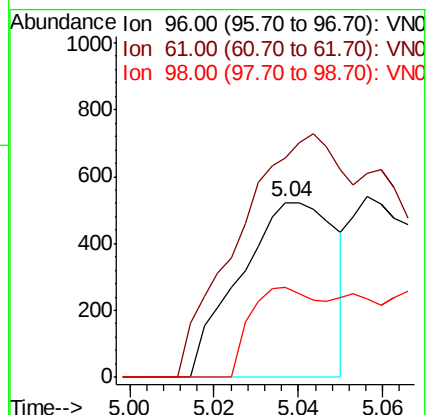
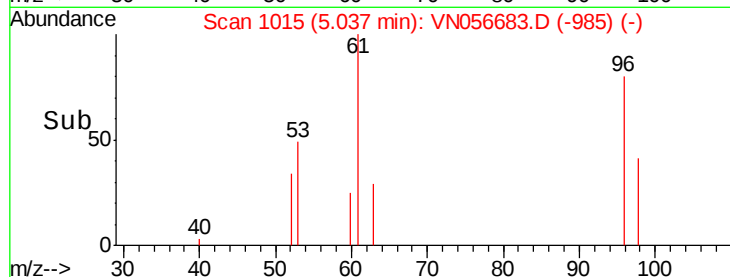
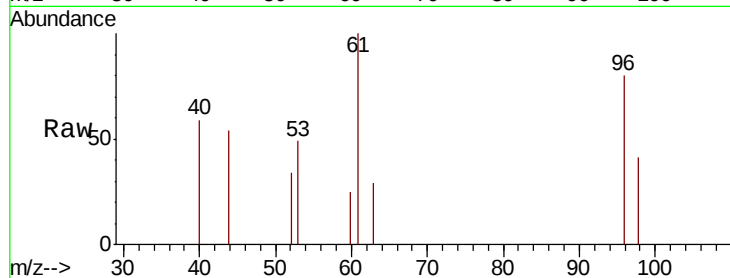
Tot Ion: 96 Resp: 823

Ion Ratio Lower Upper

96 100

61 94.3 109.6 164.4#

98 51.2 51.4 77.2#



#27

1,2-Dichloroethane-d4

Concen: 30.045 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.01 min

Lab File: VN056683.D

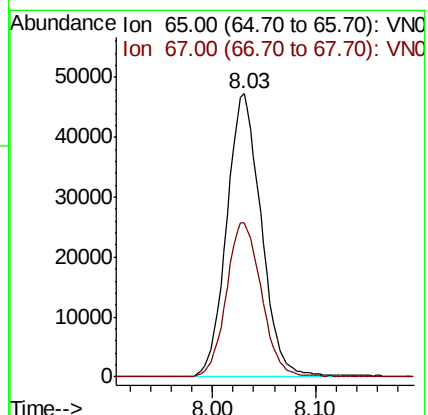
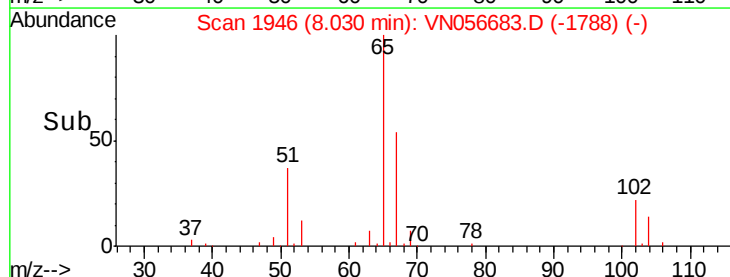
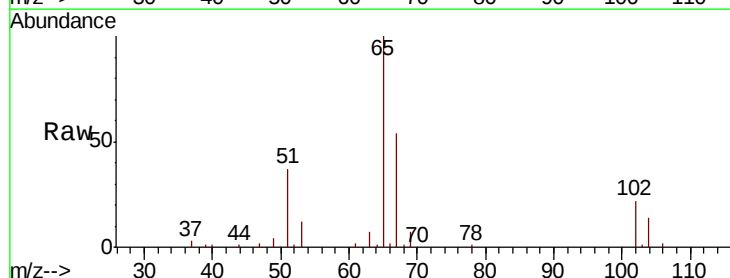
Acq: 12 Jul 2019 12:06

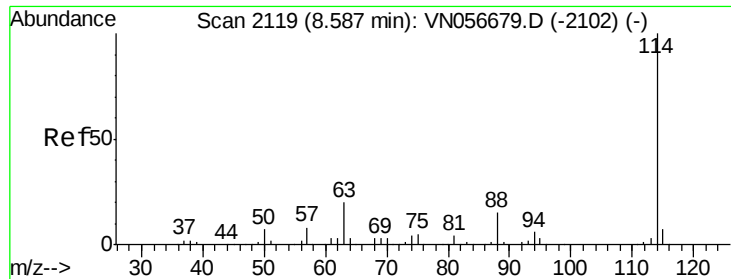
Tgt Ion: 65 Resp: 110236

Ion Ratio Lower Upper

65 100

67 55.1 43.4 65.0

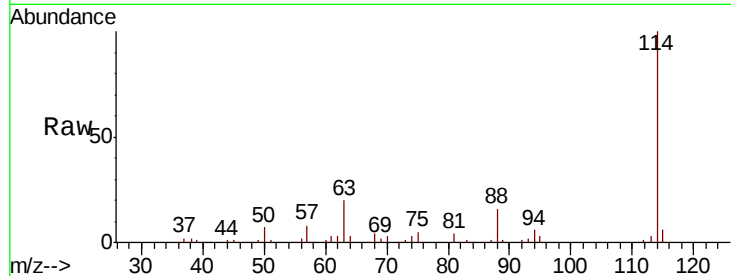




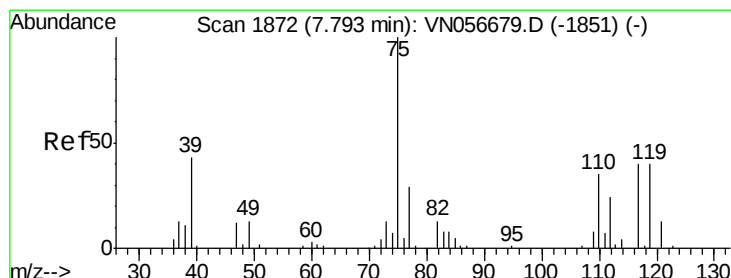
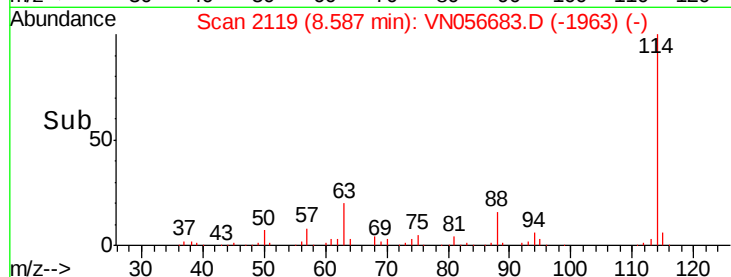
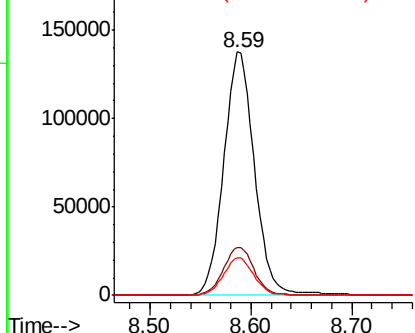
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tot Ion:114 Resp: 292754
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.3 12.3 18.5

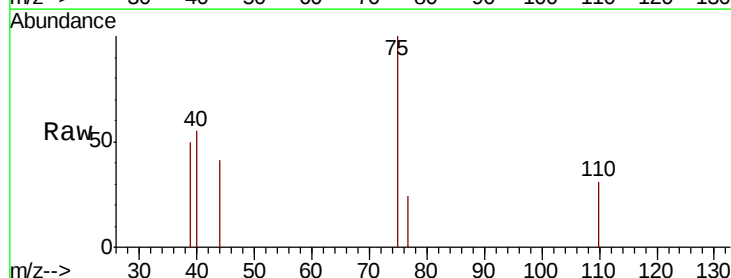


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

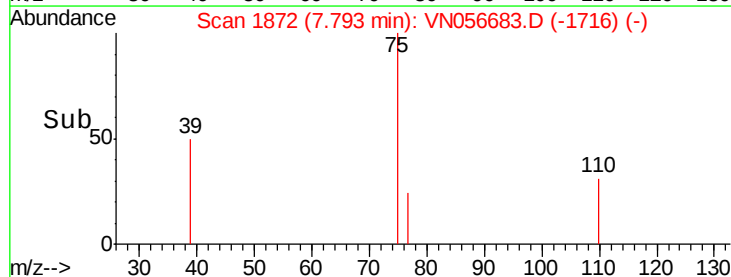
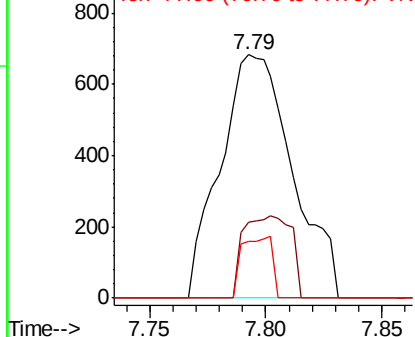


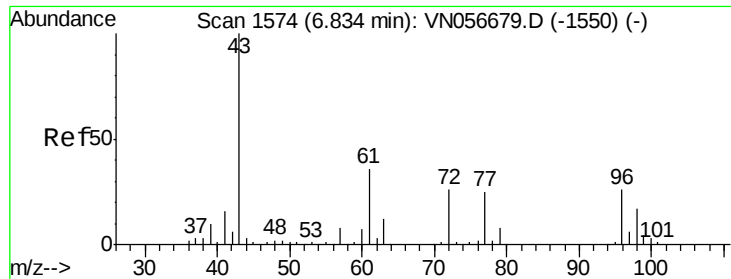
#29
 1,1-Dichloropropene
 Concen: 0.317 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Tgt Ion: 75 Resp: 1477
 Ion Ratio Lower Upper
 75 100
 110 0.0 0.0 72.4
 77 6.2 0.0 62.2



Abundance Ion 75.00 (74.70 to 75.70): VNO
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VNO

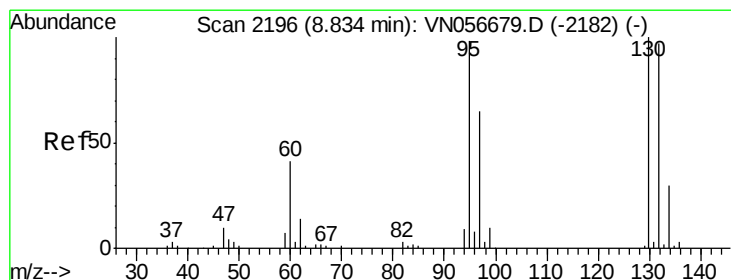
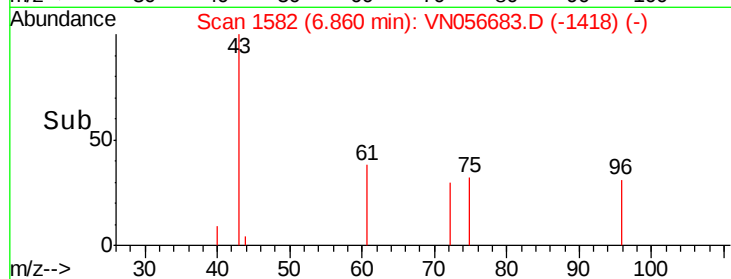
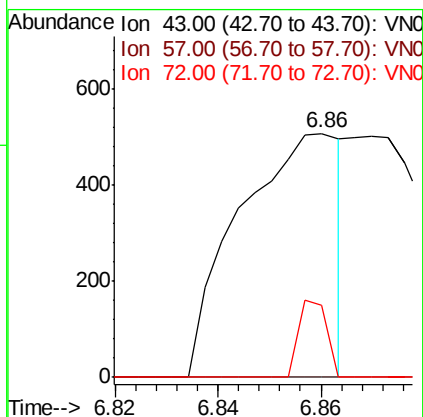
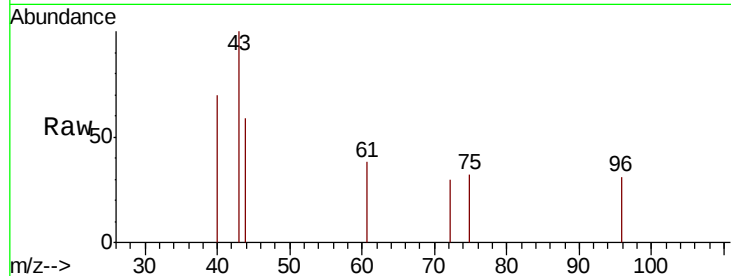




#30
2-Butanone
Concen: 0.256 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.03 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

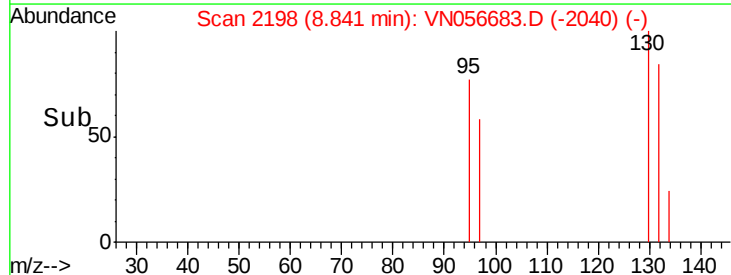
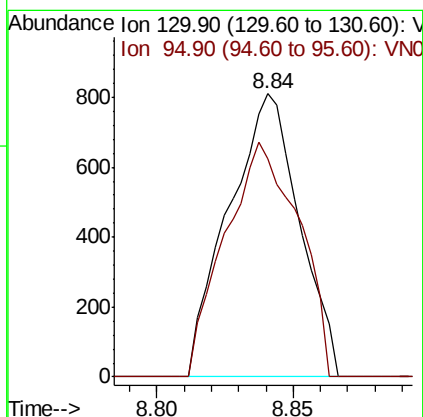
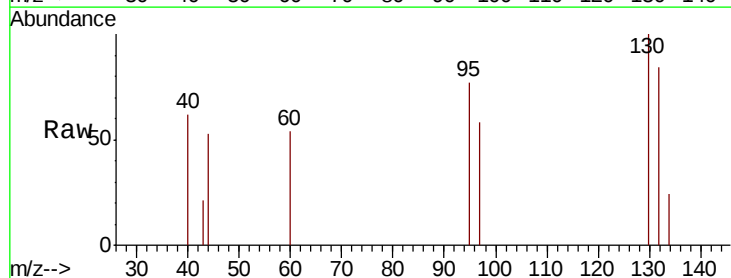
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

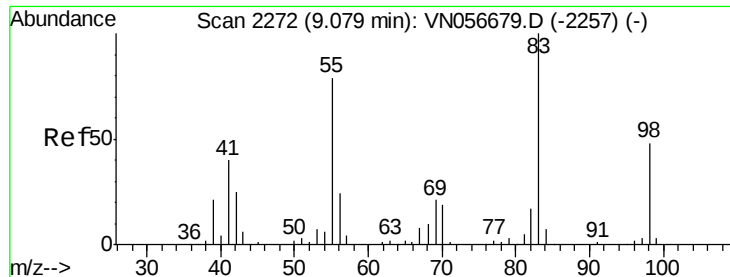
Tot Ion: 43 Resp: 689
Ion Ratio Lower Upper
43 100
57 0.0 6.6 10.0#
72 8.7 21.3 31.9#



#37
Trichloroethene
Concen: 0.375 ug/l
RT: 8.84 min Scan# 2198
Delta R.T. 0.01 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion:130 Resp: 1455
Ion Ratio Lower Upper
130 100
95 77.3 78.4 117.6#

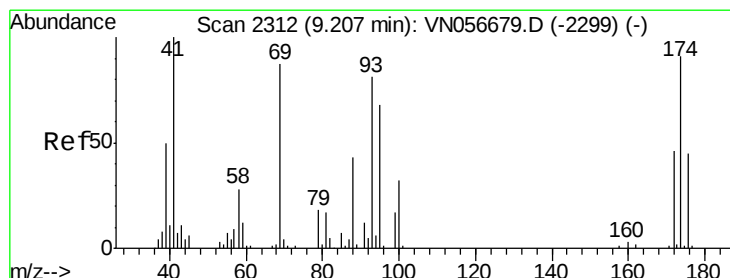
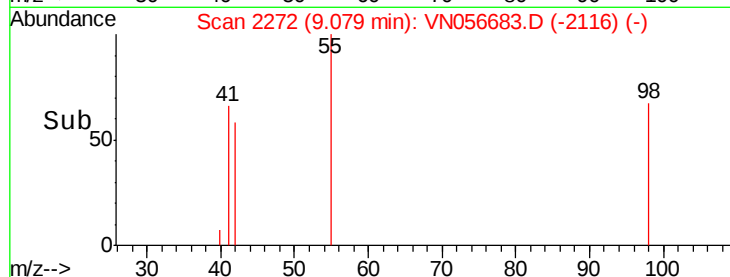
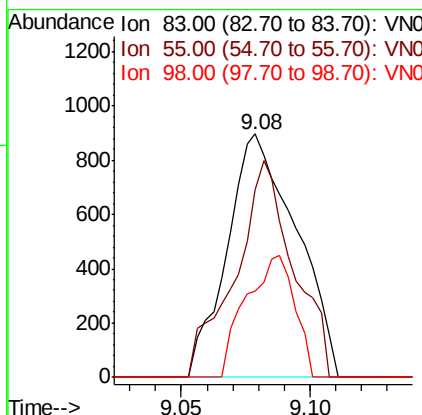
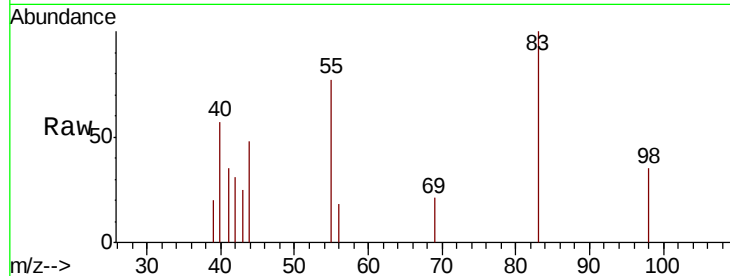




#38
Methvlcvclohexane
Concen: 0.286 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

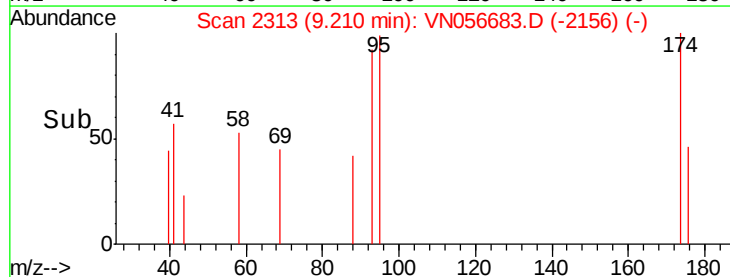
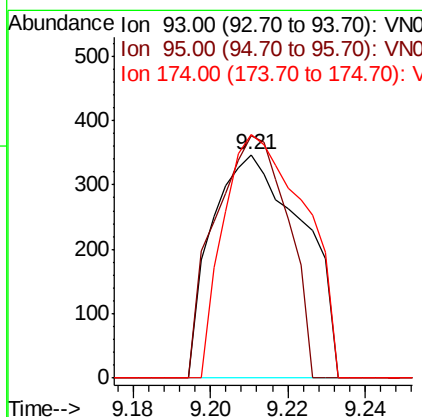
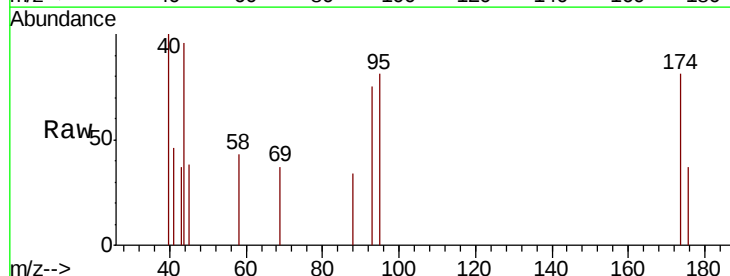
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

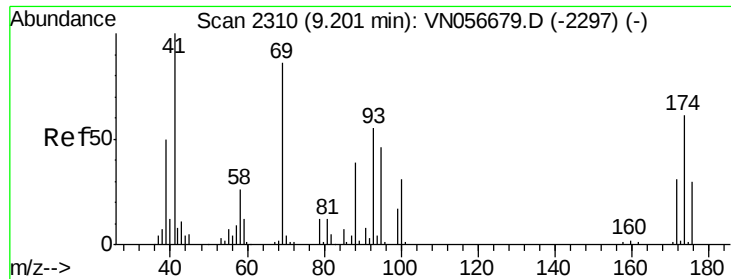
Tot Ion: 83 Resp: 1679
Ion Ratio Lower Upper
83 100
55 74.9 38.4 115.2
98 35.3 23.3 69.9



#40
Dibromomethane
Concen: 0.231 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion: 93 Resp: 564
Ion Ratio Lower Upper
93 100
95 86.9 0.0 167.0
174 98.2 0.0 224.2

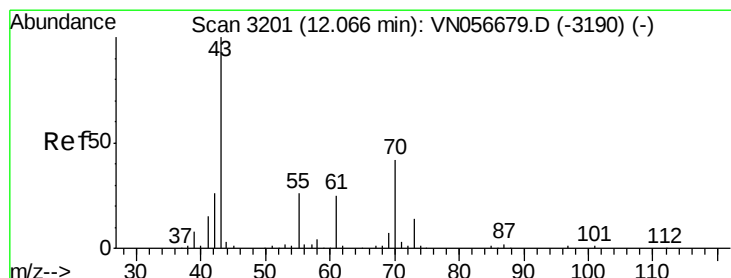
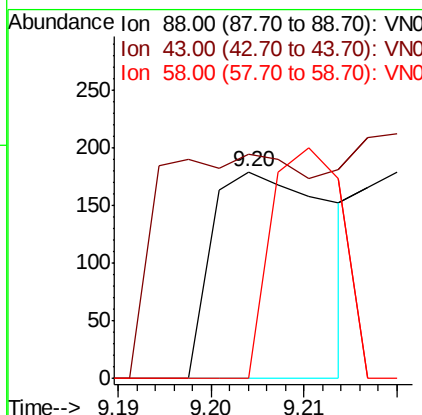
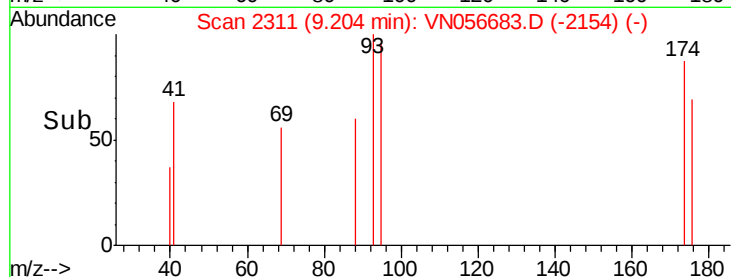
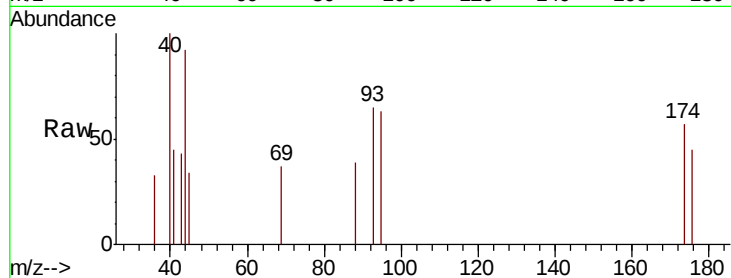




#45
 1,4-Dioxane
 Concen: 2.057 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

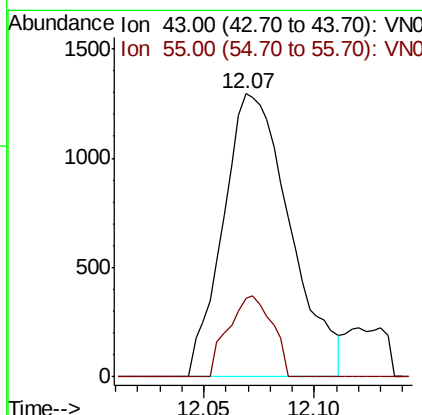
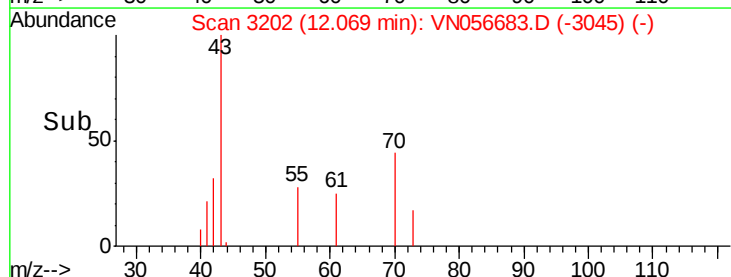
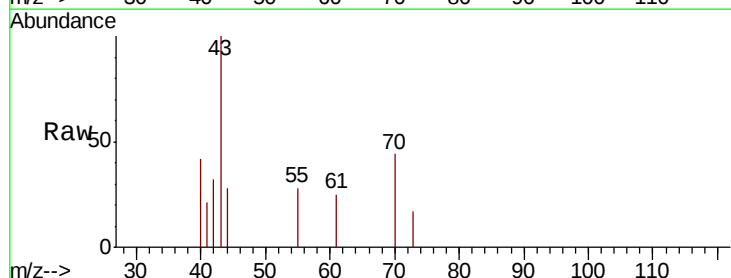
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

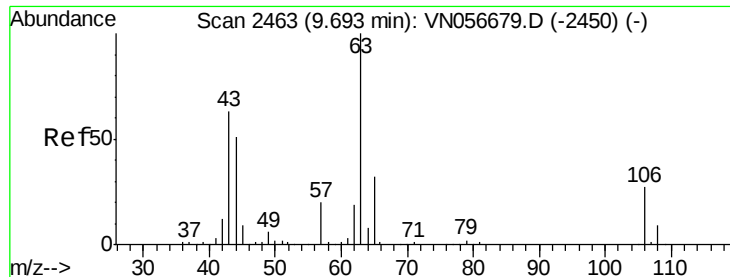
Tot Ion: 88 Resp: 158
 Ion Ratio Lower Upper
 88 100
 43 67.7 23.0 34.6#
 58 67.7 54.6 81.8



#47
 n-amyl Acetate
 Concen: 0.438 ug/l
 RT: 12.07 min Scan# 3202
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Tgt Ion: 43 Resp: 2723
 Ion Ratio Lower Upper
 43 100
 55 18.8 20.7 31.1#





#55

2-Chloroethyl vinyl ether

Concen: 0.398 ug/l

RT: 9.70 min Scan# 2466

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

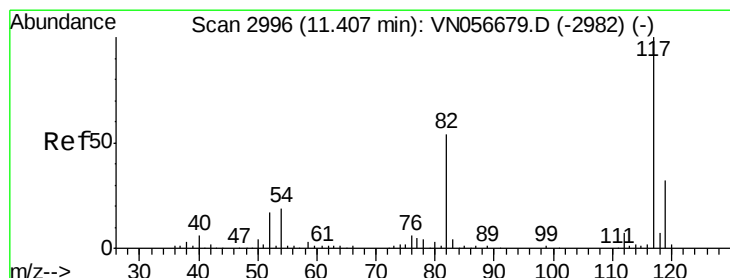
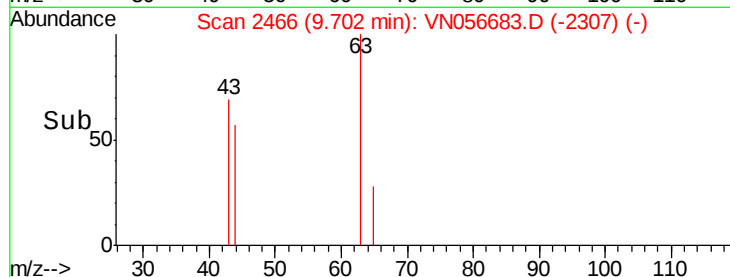
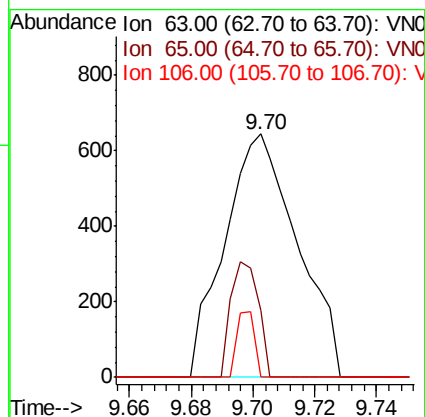
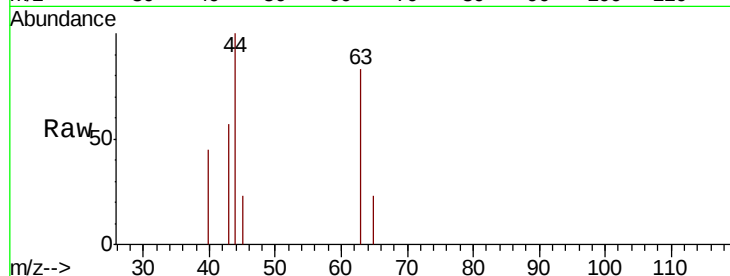
Tot Ion: 63 Resp: 1055

Ion Ratio Lower Upper

63 100

65 17.9 25.2 37.8#

106 6.4 21.6 32.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

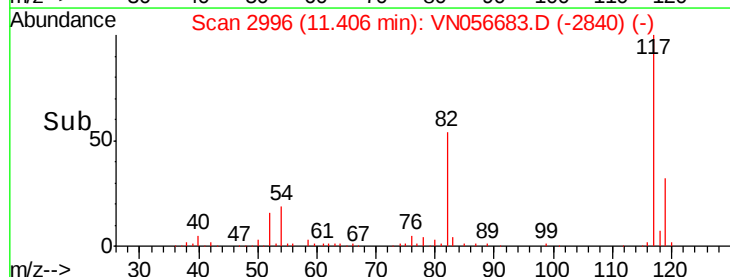
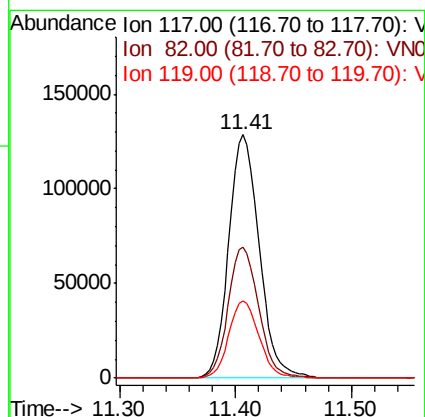
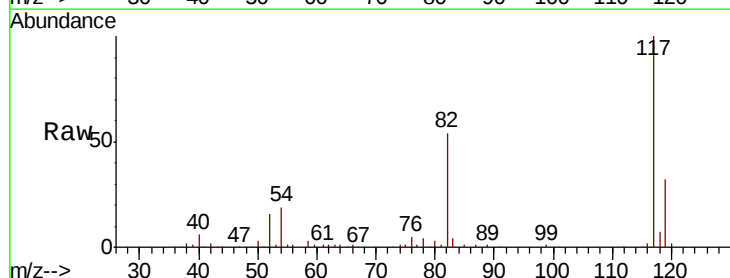
Tgt Ion: 117 Resp: 234856

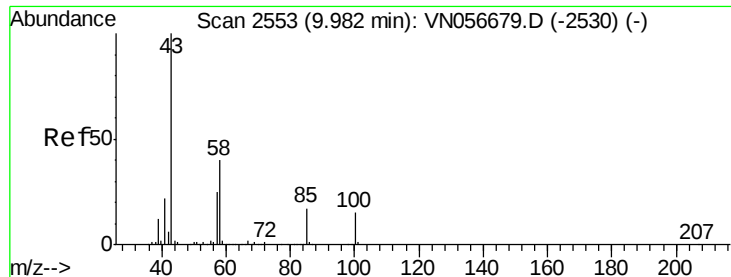
Ion Ratio Lower Upper

117 100

82 53.8 43.0 64.4

119 31.6 26.0 39.0





#58

4-Methyl-2-Pentanone

Concen: 0.298 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

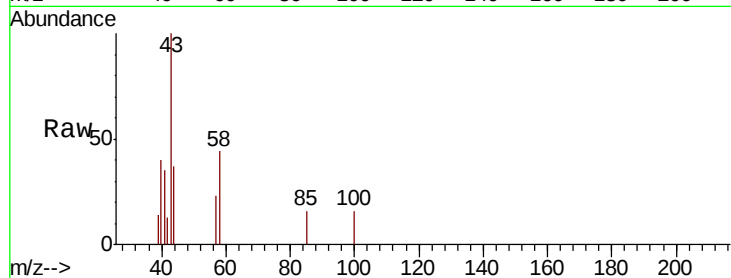
Tot Ion: 43 Resp: 1316

Ion Ratio Lower Upper

43 100

58 0.0 31.9 47.9#

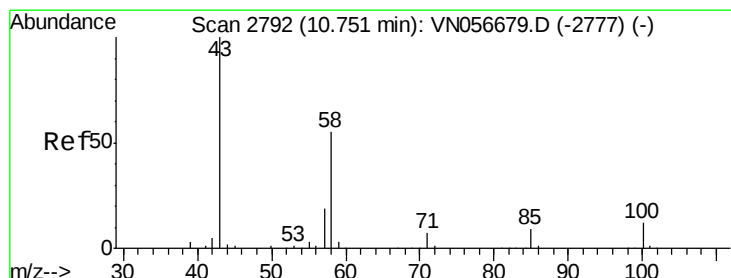
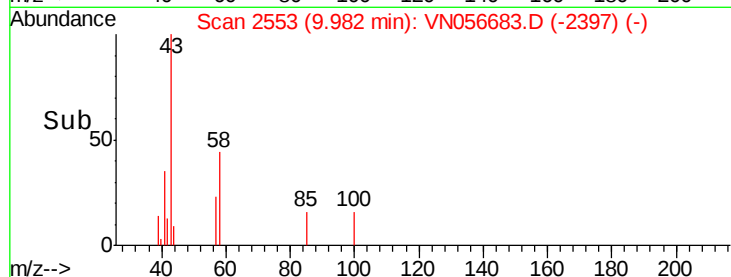
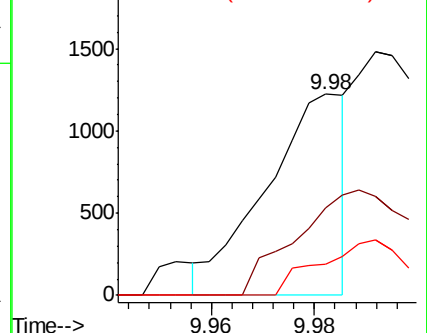
85 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 1.572 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

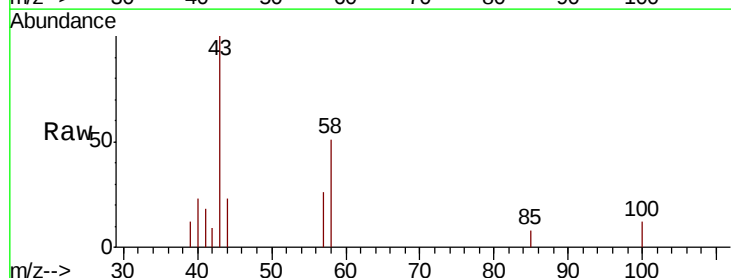
Tgt Ion: 43 Resp: 5275

Ion Ratio Lower Upper

43 100

58 47.7 44.4 66.6

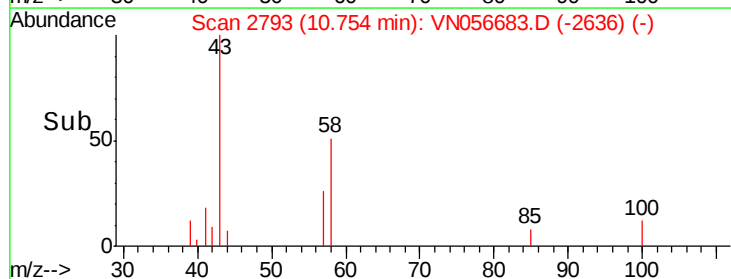
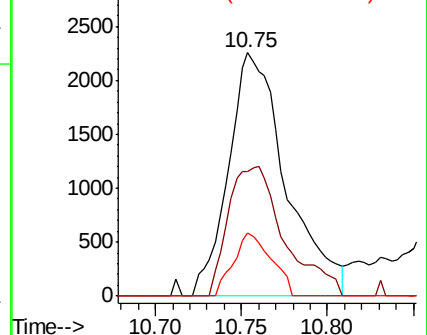
57 17.0 15.2 22.8

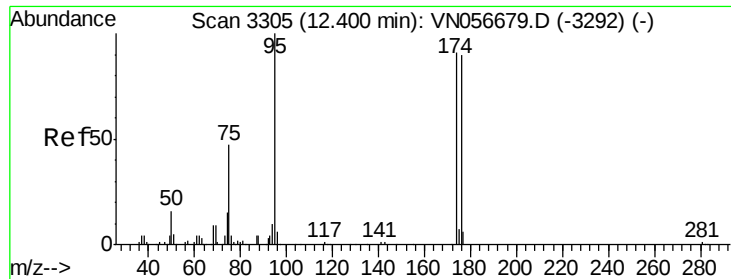


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

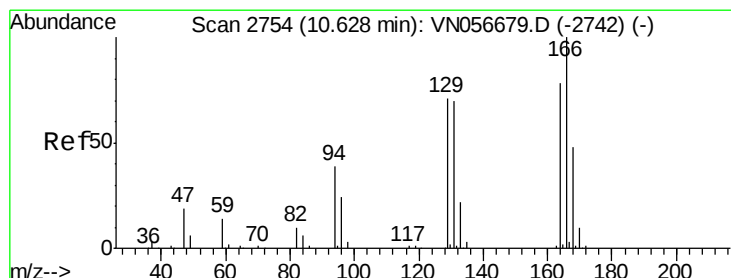
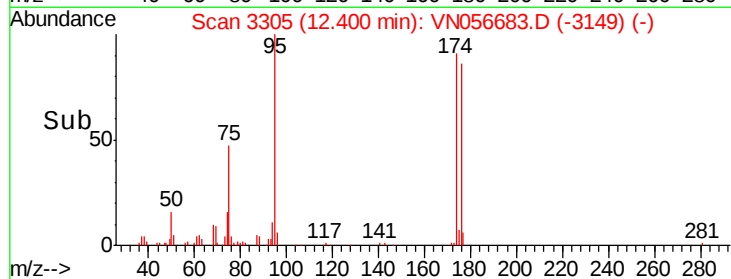
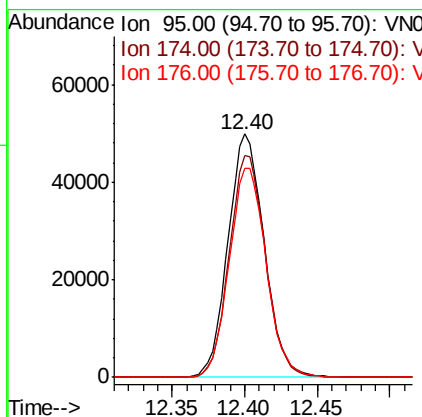
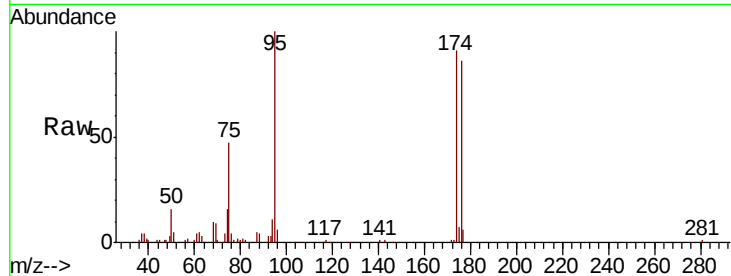




#60
4-Bromofluorobenzene
Concen: 24.131 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

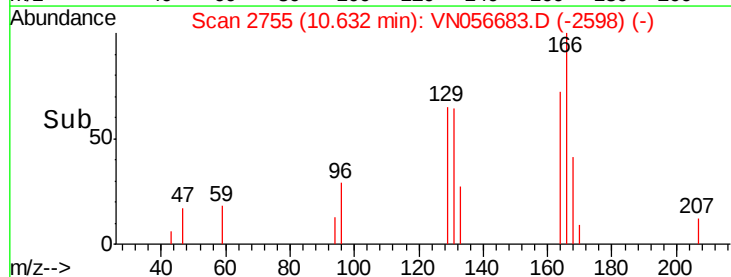
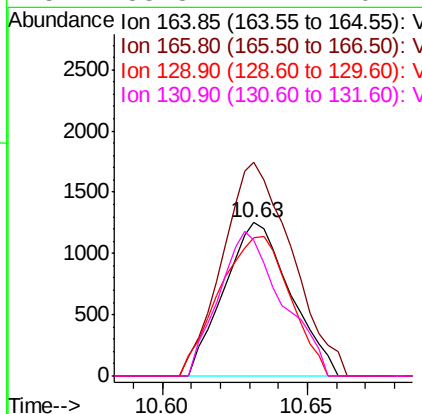
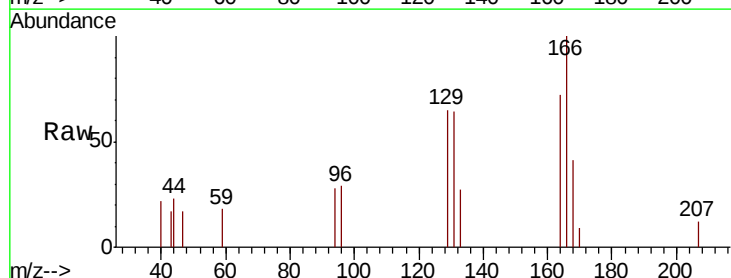
Instrument :
MSVOA_N
ClientSampleId :
I.BLK

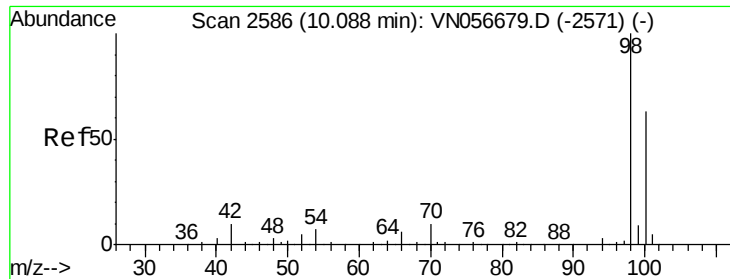
Tot Ion: 95 Resp: 86733
Ion Ratio Lower Upper
95 100
174 91.2 72.6 108.8
176 87.3 71.0 106.6



#61
Tetrachloroethene
Concen: 0.590 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion: 164 Resp: 1992
Ion Ratio Lower Upper
164 100
166 126.9 102.3 153.5
129 90.1 72.6 108.8
131 88.8 71.4 107.2





#63

Toluene-d8

Concen: 31.420 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

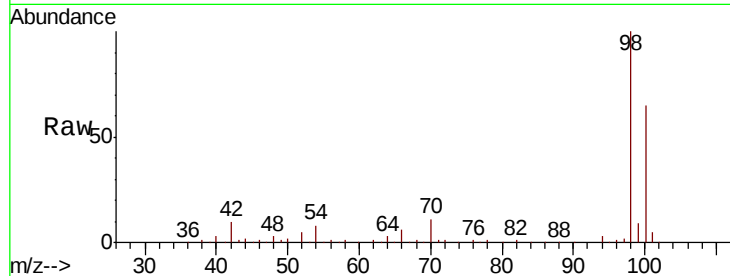
I.BLK

Tot Ion: 98 Resp: 337162

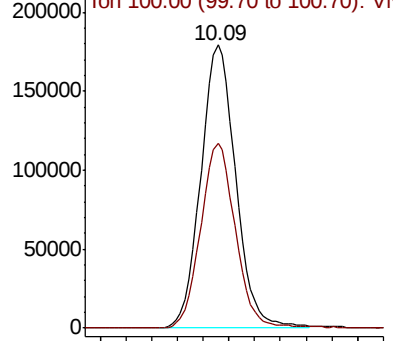
Ion Ratio Lower Upper

98 100

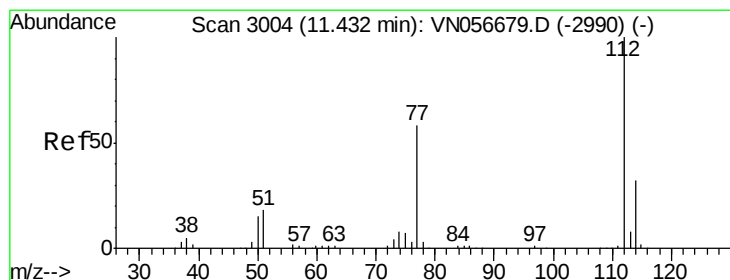
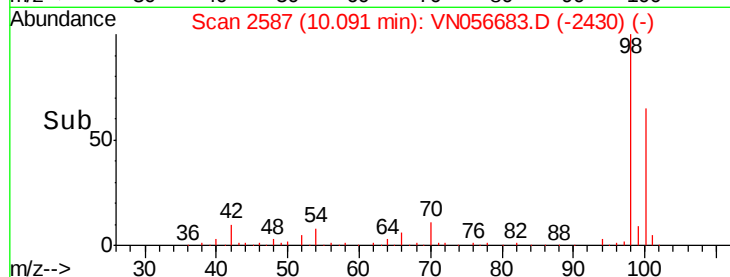
100 65.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN056679.D (-2571) (-)



Time-->



#64

Chlorobenzene

Concen: 0.318 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN056683.D

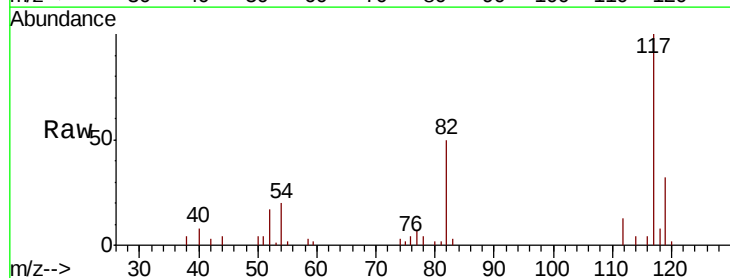
Acq: 12 Jul 2019 12:06

Tgt Ion: 112 Resp: 2674

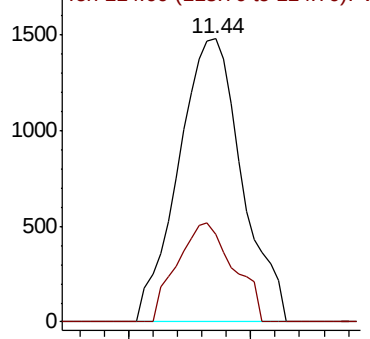
Ion Ratio Lower Upper

112 100

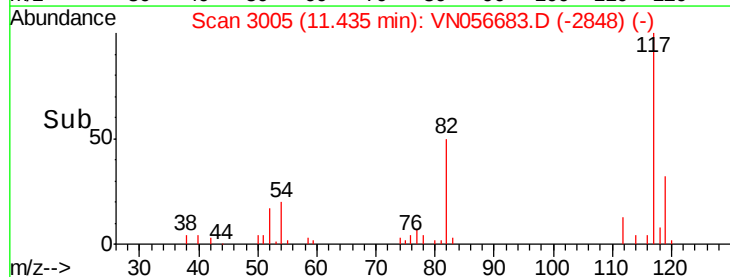
114 30.9 25.3 37.9

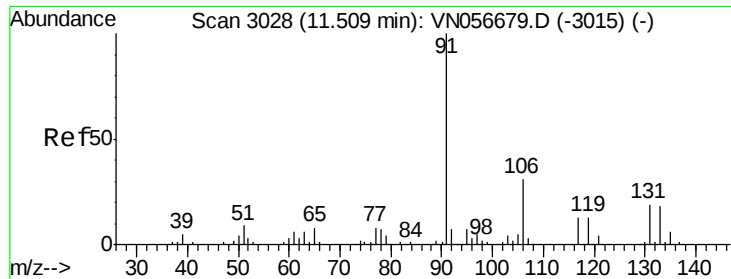


Abundance Ion 112.00 (111.70 to 112.70): VN056679.D (-2990) (-)



Time-->

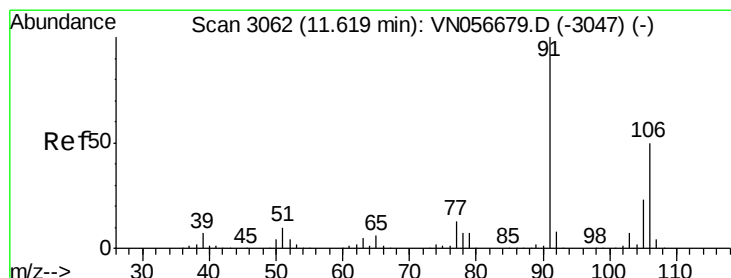
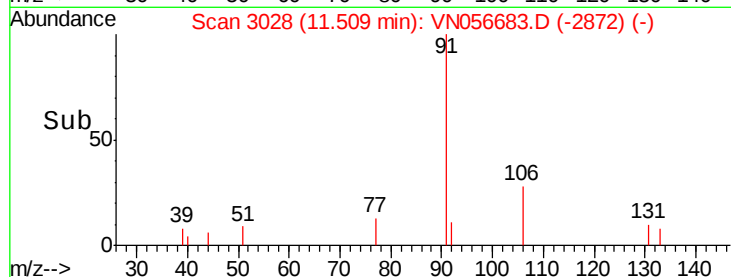
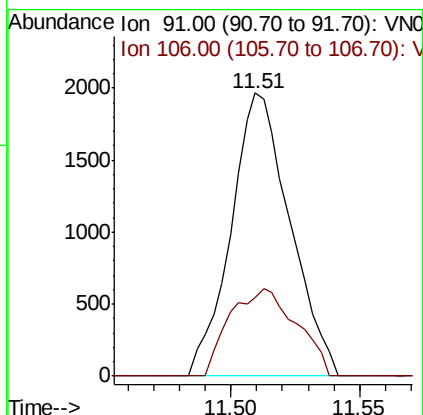
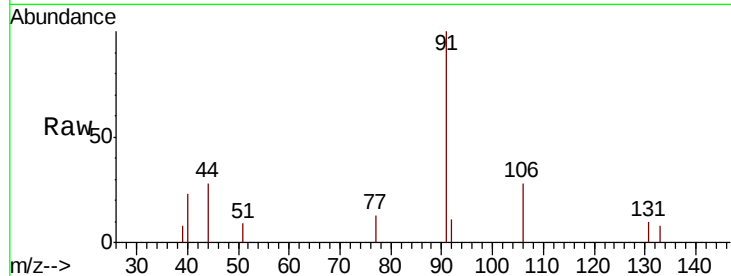




#66
Ethyl Benzene
Concen: 0.210 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

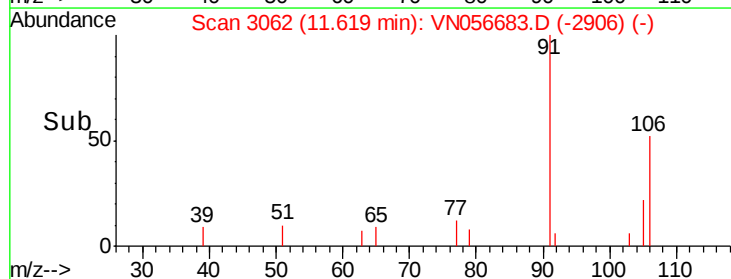
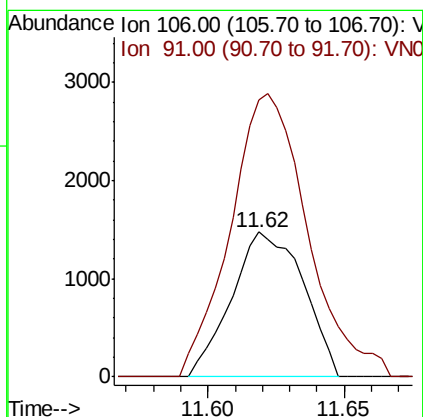
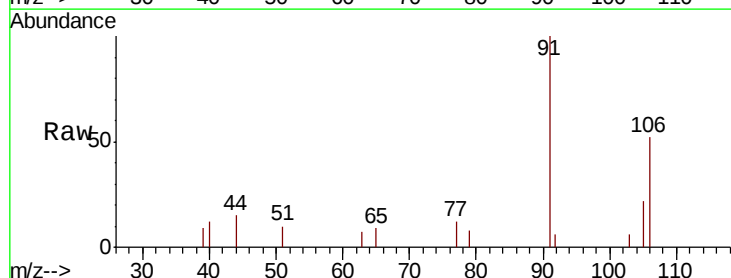
Instrument :
MSVOA_N
ClientSampled :
I.BLK

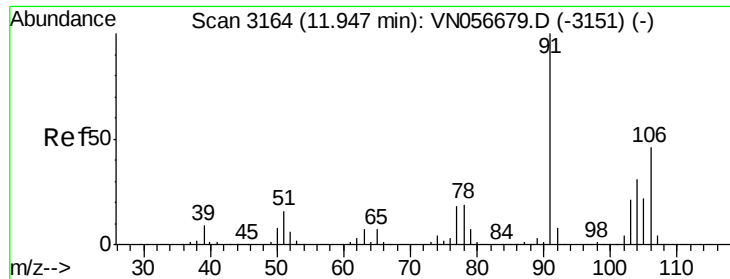
Tot Ion: 91 Resp: 3138
Ion Ratio Lower Upper
91 100
106 27.7 25.1 37.7



#67
m/p-Xylenes
Concen: 0.478 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion: 106 Resp: 2690
Ion Ratio Lower Upper
106 100
91 210.9 161.8 242.8

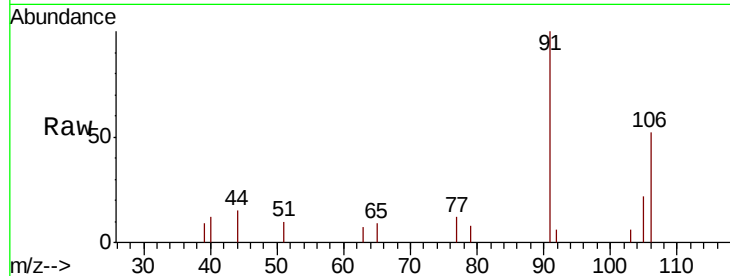




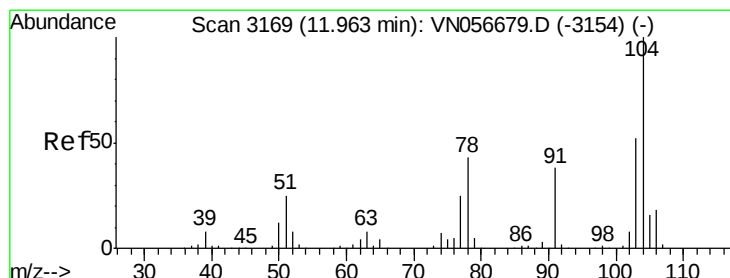
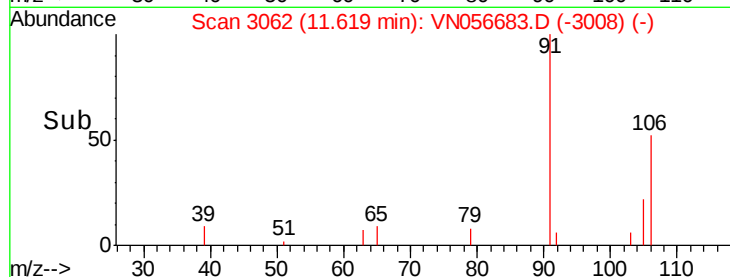
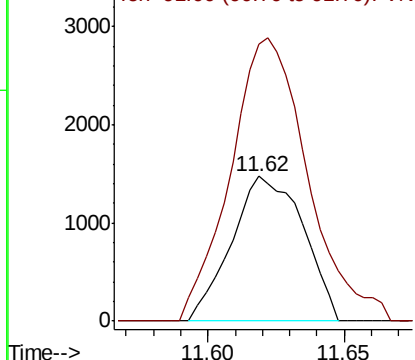
#68
o-Xylene
Concen: 0.490 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.33 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Instrument :
MSVOA_N
ClientSampled :
I.BLK

Tot Ion:106 Resp: 2690
Ion Ratio Lower Upper
106 100
91 210.9 108.1 324.2

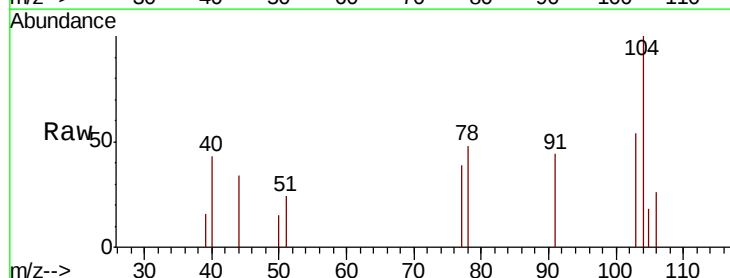


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

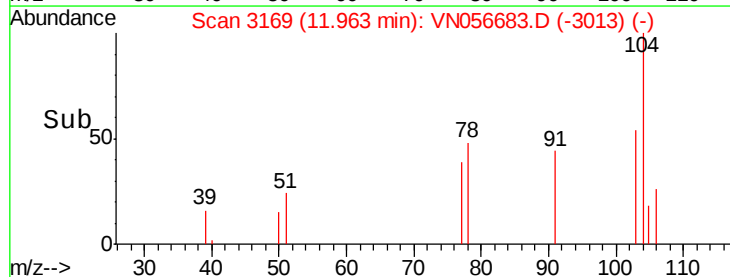
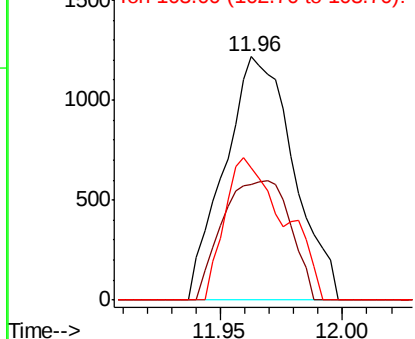


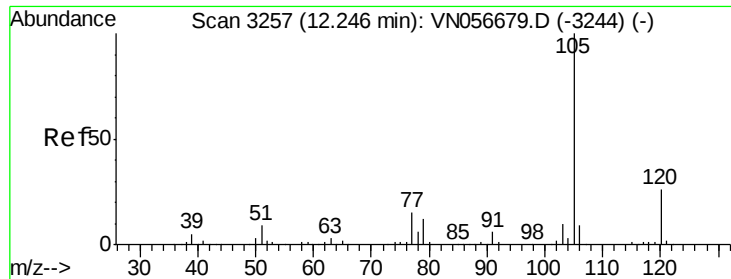
#69
Styrene
Concen: 0.263 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056683.D
Acq: 12 Jul 2019 12:06

Tgt Ion:104 Resp: 2389
Ion Ratio Lower Upper
104 100
78 48.4 38.7 58.1
103 40.4 45.0 67.4#



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





#70

Isopropylbenzene

Concen: 0.246 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

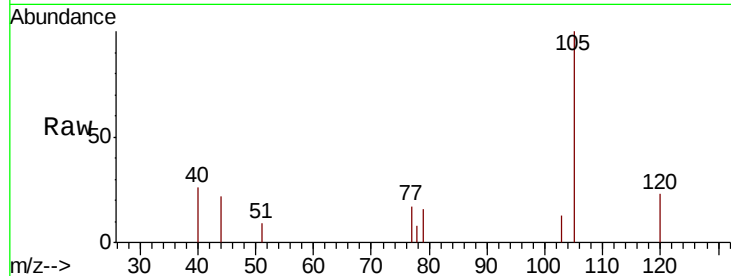
I.BLK

Tot Ion:105 Resp: 3535

Ion Ratio Lower Upper

105 100

120 25.9 18.6 34.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2000

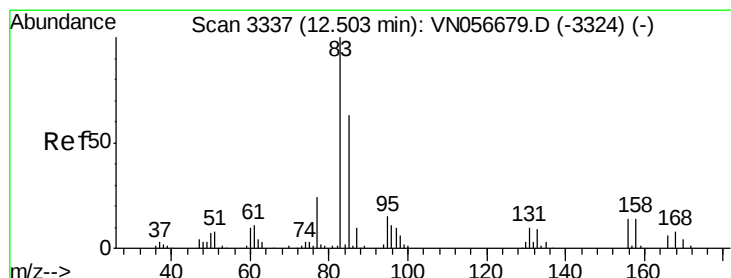
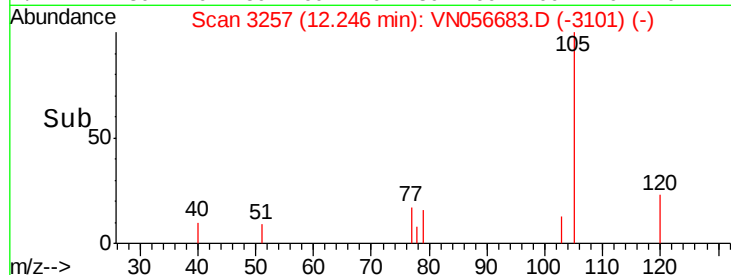
1500

1000

500

0

Time--> 12.20 12.25



#71

1,1,2,2-Tetrachloroethane

Concen: 0.230 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

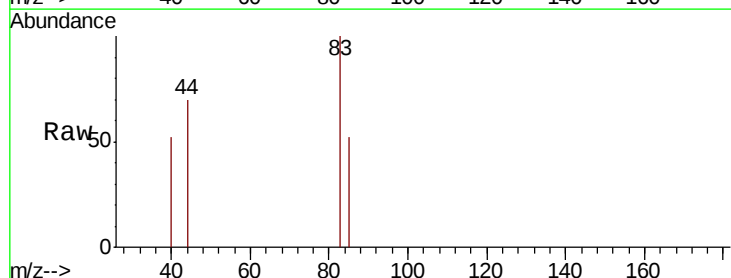
Tgt Ion: 83 Resp: 1073

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 49.5 31.9 95.7



Abundance Ion 83.00 (82.70 to 83.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): V

800

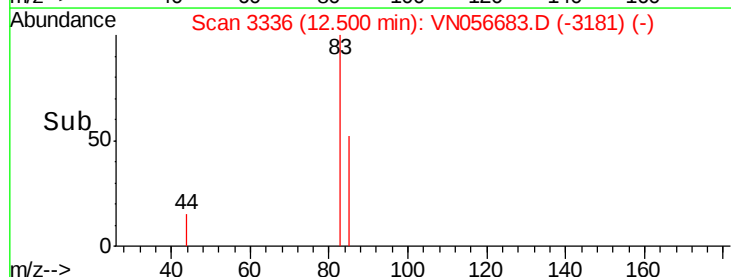
600

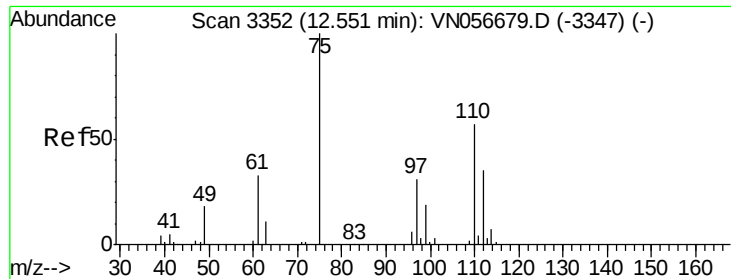
400

200

0

Time--> 12.50





#72

1,2,3-Trichloropropane

Concen: 0.367 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

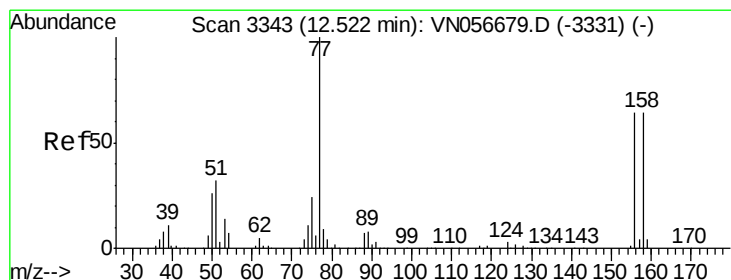
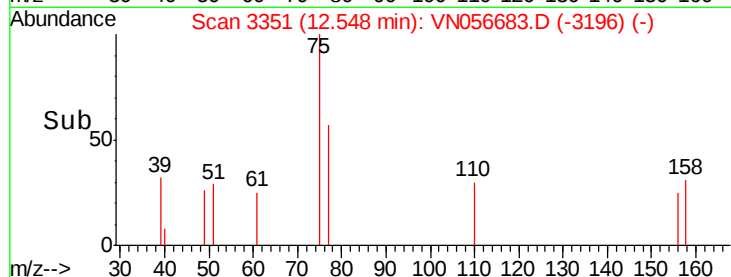
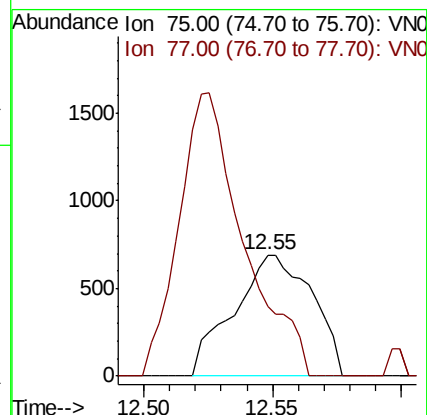
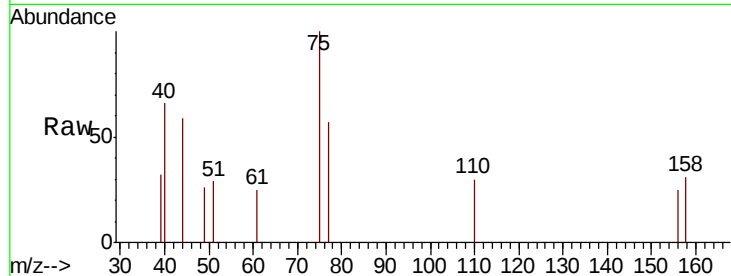
I.BLK

Tot Ion: 75 Resp: 1465

Ion Ratio Lower Upper

75 100

77 191.4 0.0 352.2



#73

Bromobenzene

Concen: 0.405 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

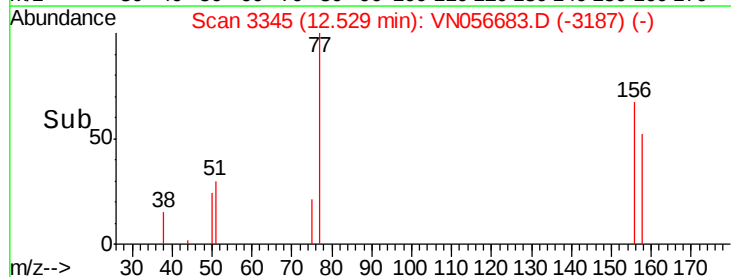
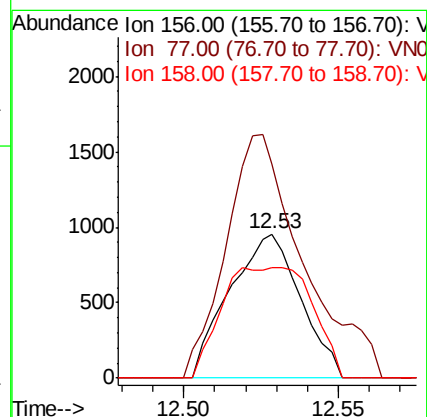
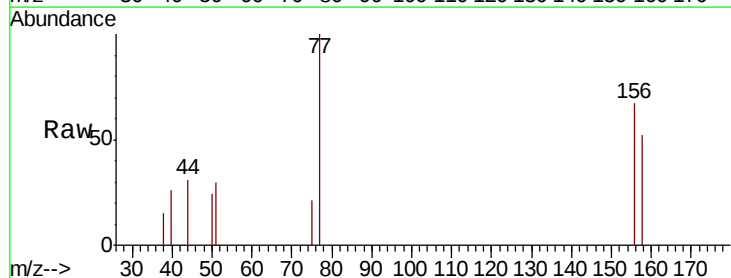
Tgt Ion: 156 Resp: 1524

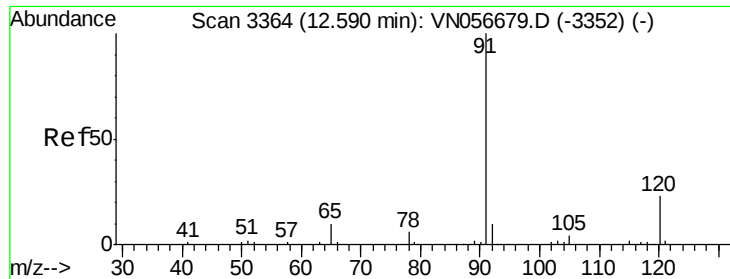
Ion Ratio Lower Upper

156 100

77 184.0 0.0 381.8

158 48.4 0.0 195.8





#74

n-propylbenzene

Concen: 0.357 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

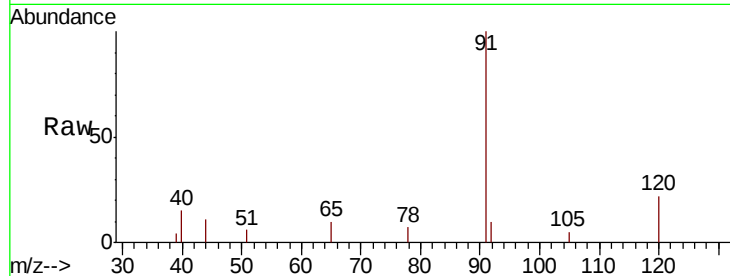
I.BLK

Tot Ion: 91 Resp: 5800

Ion Ratio Lower Upper

91 100

120 22.4 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

4000

3000

2000

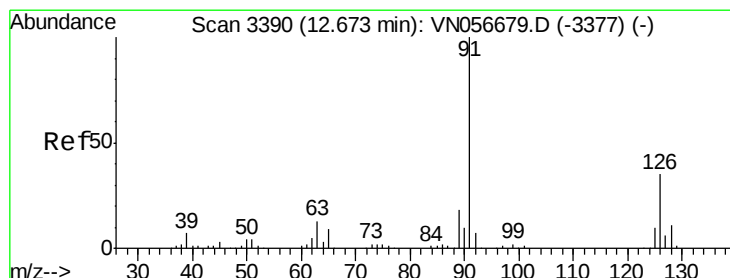
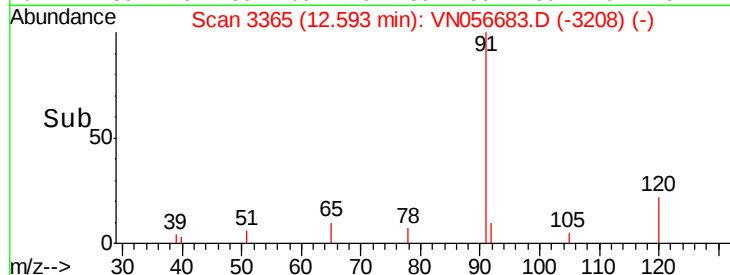
1000

0

Time-->

12.55

12.60



#75

2-Chlorotoluene

Concen: 0.390 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056683.D

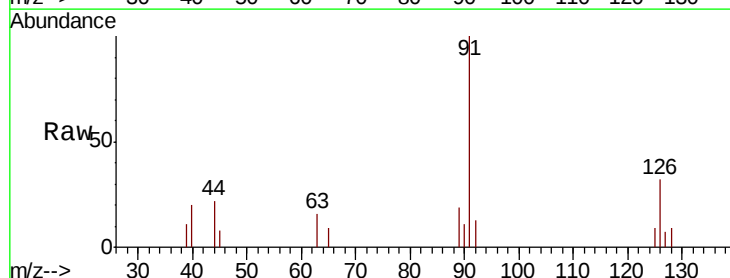
Acq: 12 Jul 2019 12:06

Tgt Ion: 91 Resp: 3814

Ion Ratio Lower Upper

91 100

126 17.0 0.0 69.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

12.68

2500

2000

1500

1000

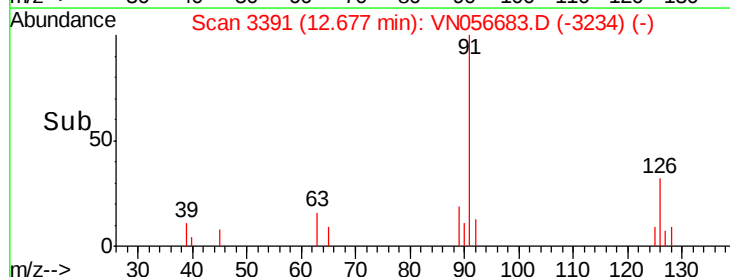
500

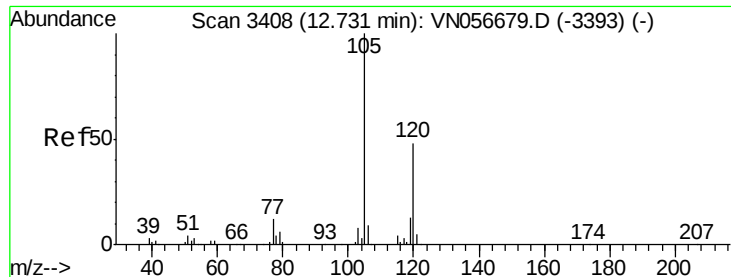
0

Time-->

12.65

12.70





#76

1,3,5-Trimethylbenzene

Concen: 0.342 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

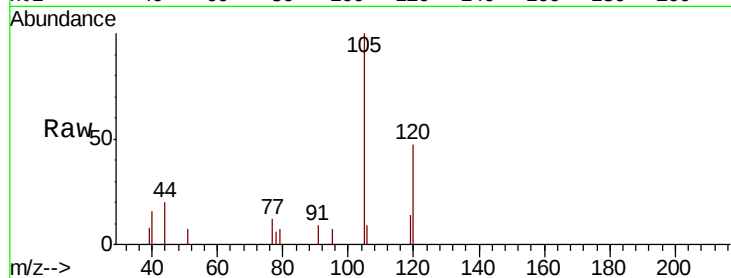
I.BLK

Tot Ion:105 Resp: 4193

Ion Ratio Lower Upper

105 100

120 49.4 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

3000

2500

2000

1500

1000

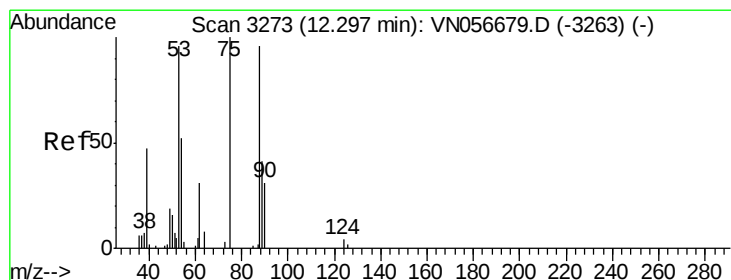
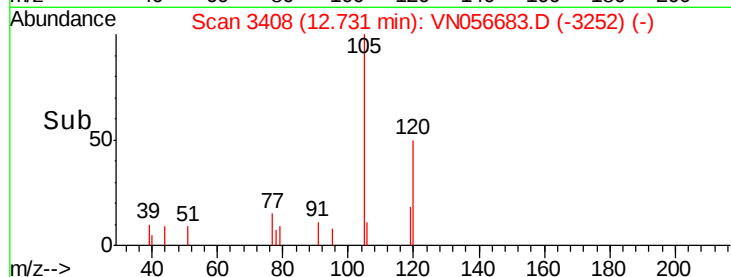
500

0

Time-->

12.70

12.75



#77

t-1,4-Dichloro-2-butene

Concen: 30.622 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

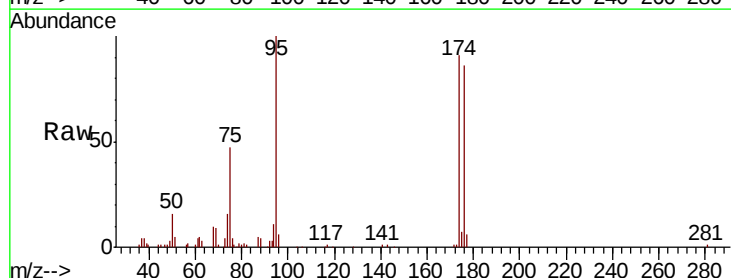
Tgt Ion: 75 Resp: 40625

Ion Ratio Lower Upper

75 100

53 0.0 48.6 145.8#

89 0.0 21.3 64.0#



Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO

30000

25000

20000

15000

10000

5000

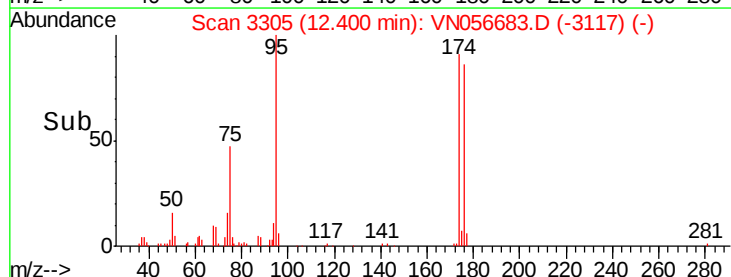
0

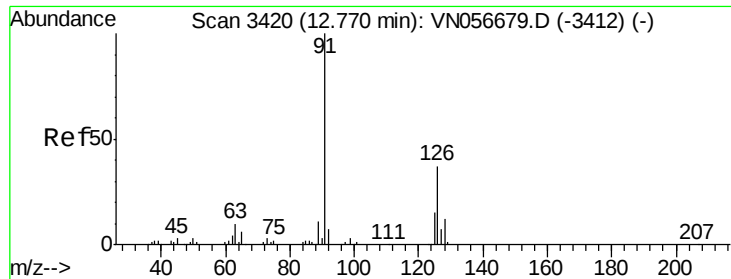
Time-->

12.35

12.40

12.45





#78

4-Chlorotoluene

Concen: 0.525 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

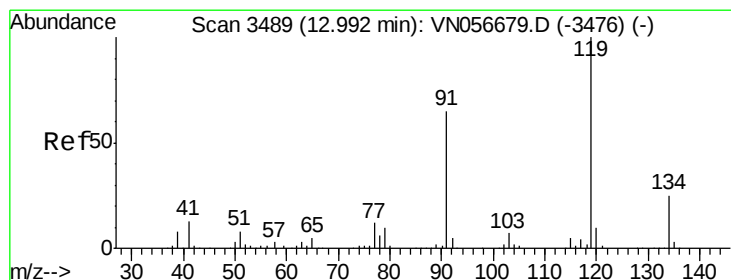
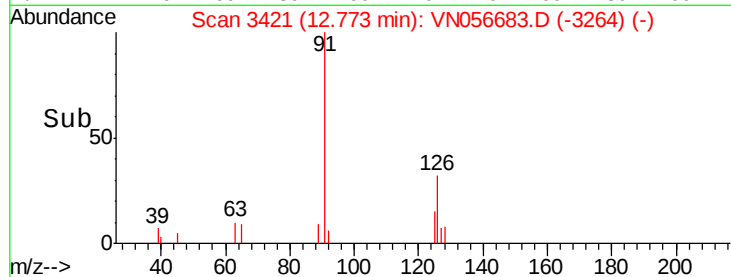
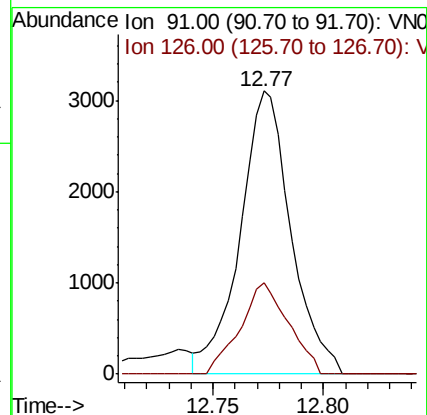
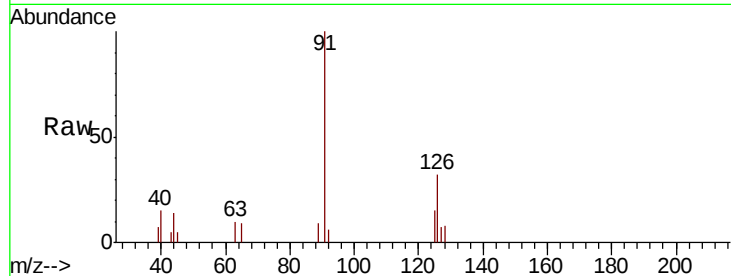
I.BLK

Tot Ion: 91 Resp: 4976

Ion Ratio Lower Upper

91 100

126 30.5 0.0 69.4



#79

tert-butylbenzene

Concen: 0.337 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

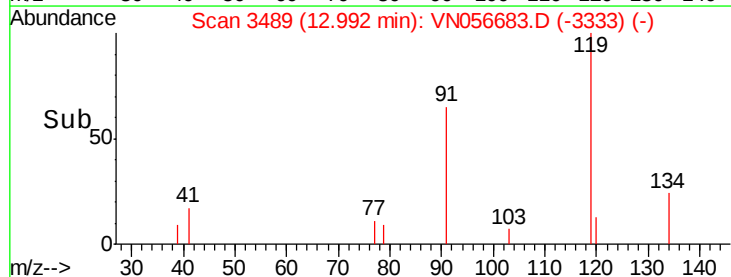
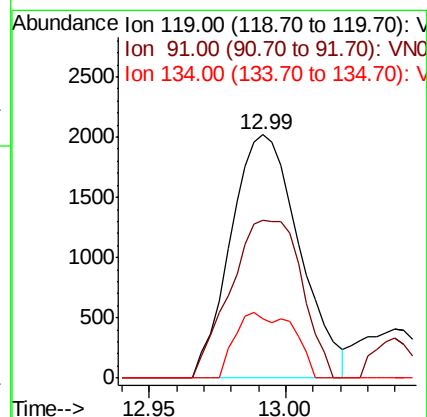
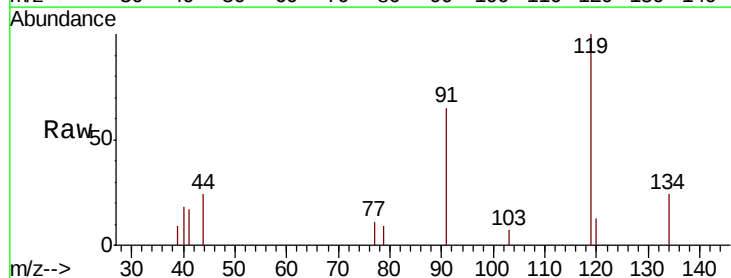
Tgt Ion: 119 Resp: 3519

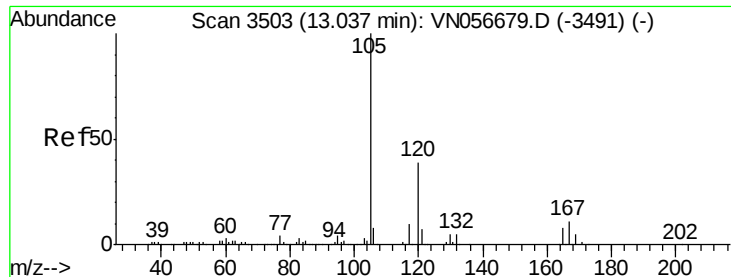
Ion Ratio Lower Upper

119 100

91 67.3 0.0 125.4

134 14.4 0.0 48.4

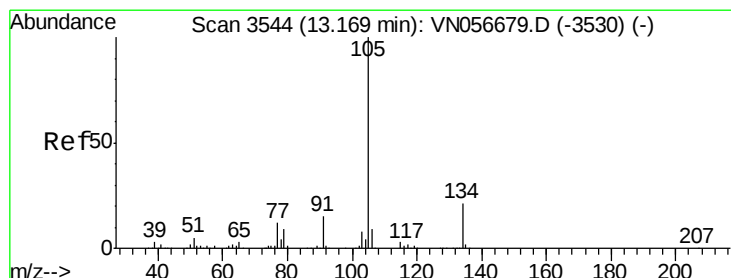
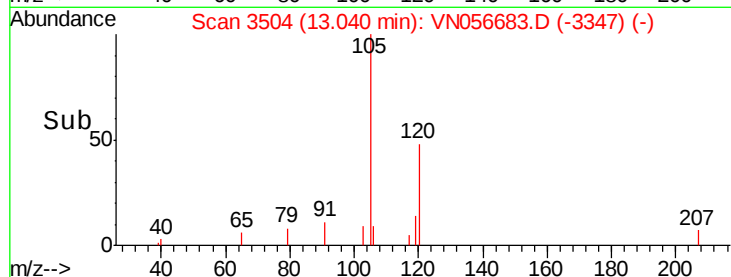
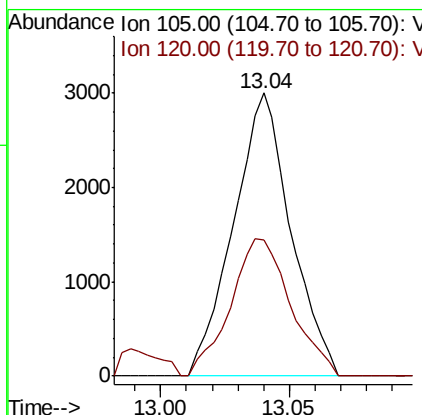
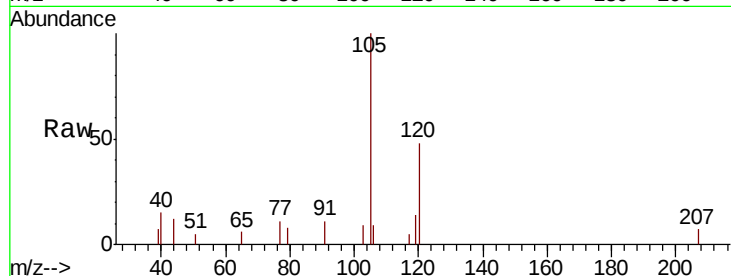




#80
 1,2,4-Trimethylbenzene
 Concen: 0.381 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

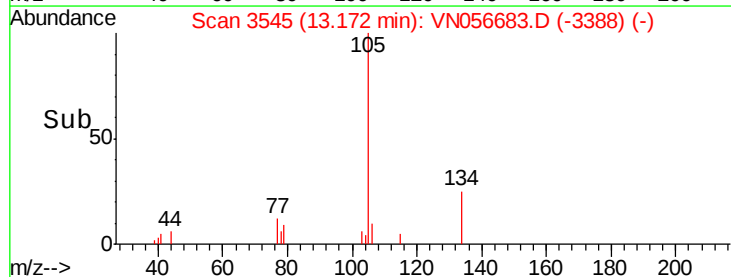
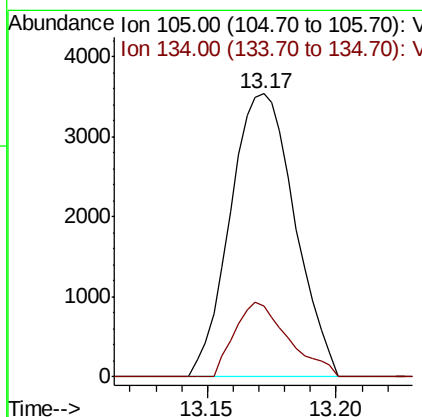
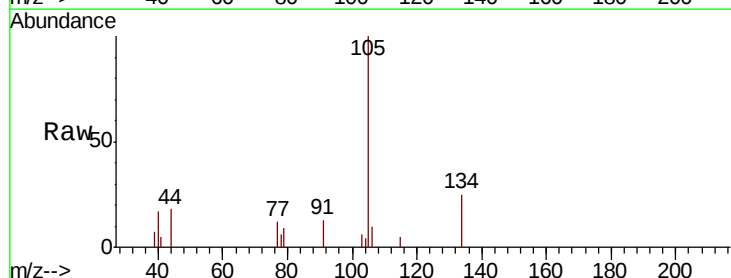
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

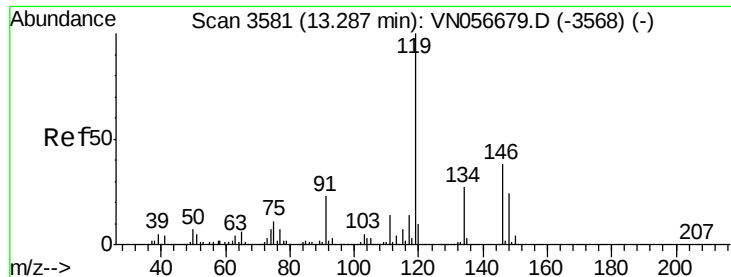
Tot Ion:105 Resp: 4641
 Ion Ratio Lower Upper
 105 100
 120 51.0 0.0 91.2



#81
 sec-Butylbenzene
 Concen: 0.446 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Tgt Ion:105 Resp: 6166
 Ion Ratio Lower Upper
 105 100
 134 22.1 0.0 40.8





#82

p-Isopropyltoluene

Concen: 0.473 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

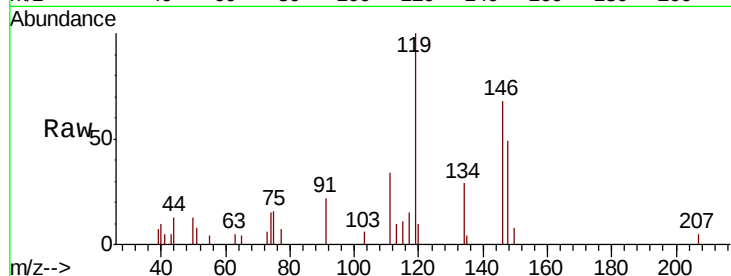
Tot Ion:119 Resp: 5947

Ion Ratio Lower Upper

119 100

134 26.9 0.0 52.8

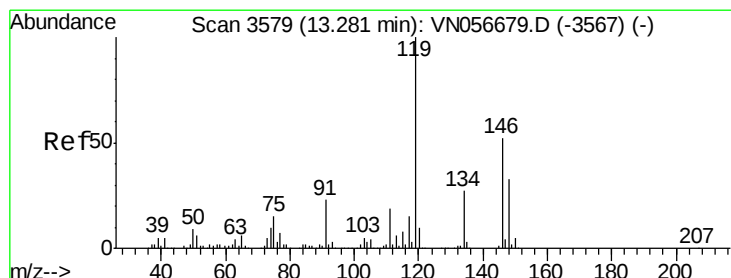
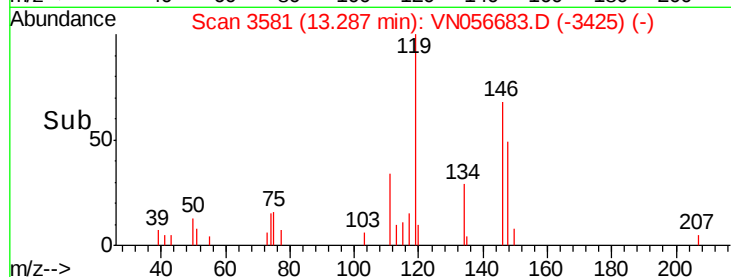
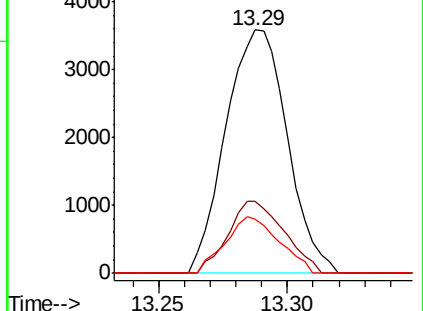
91 20.3 0.0 45.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#83

1,3-Dichlorobenzene

Concen: 0.789 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

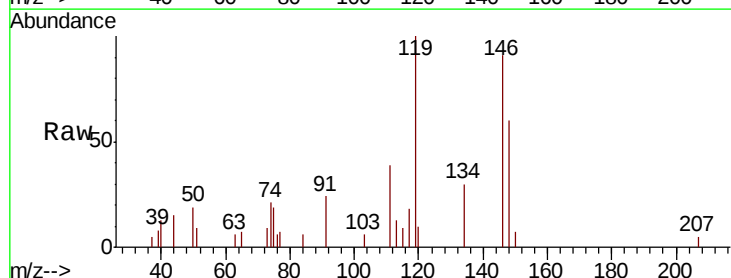
Tgt Ion:146 Resp: 4945

Ion Ratio Lower Upper

146 100

111 40.9 18.7 56.1

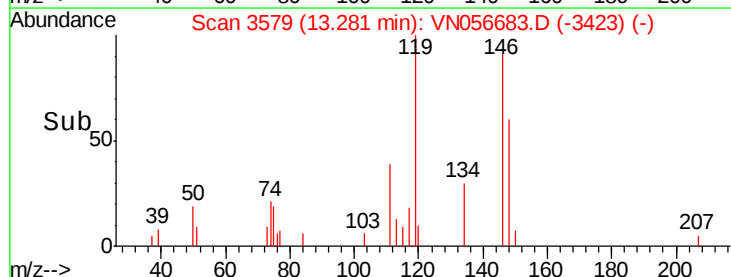
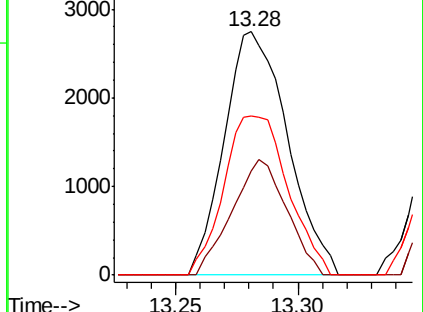
148 66.2 31.8 95.4

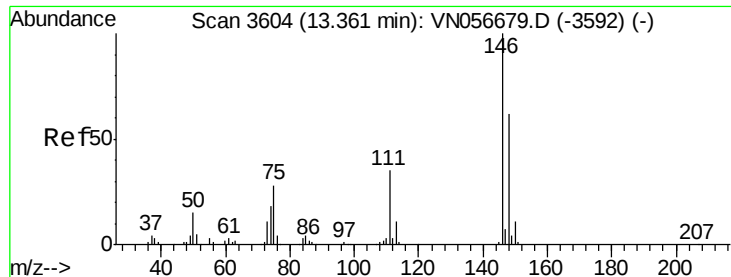


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#84

1,4-Dichlorobenzene

Concen: 0.878 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.01 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampled :

I.BLK

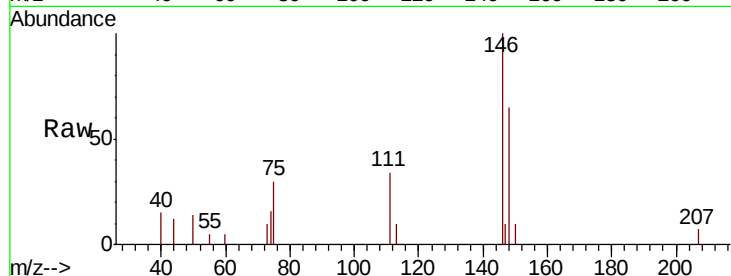
Tot Ion:146 Resp: 5272

Ion Ratio Lower Upper

146 100

111 35.3 17.8 53.4

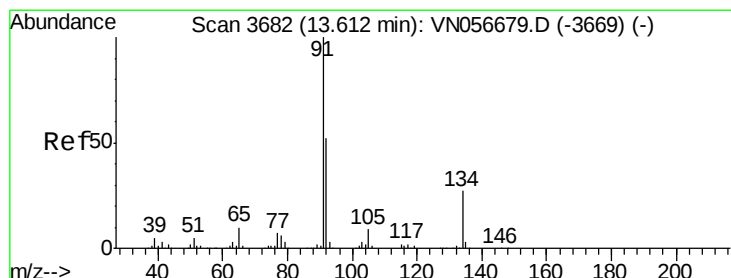
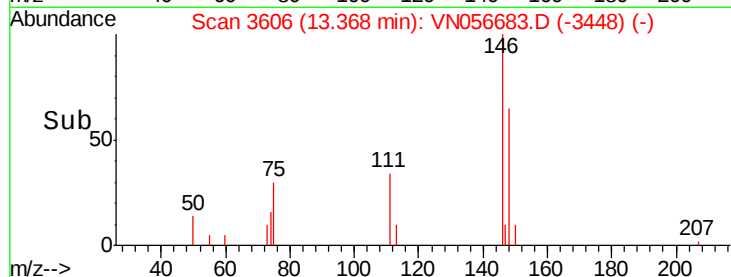
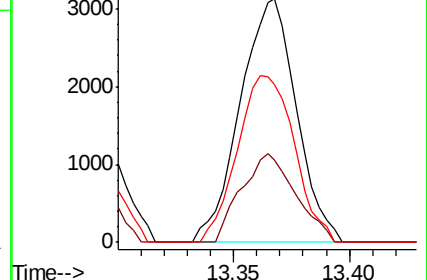
148 69.2 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 0.637 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

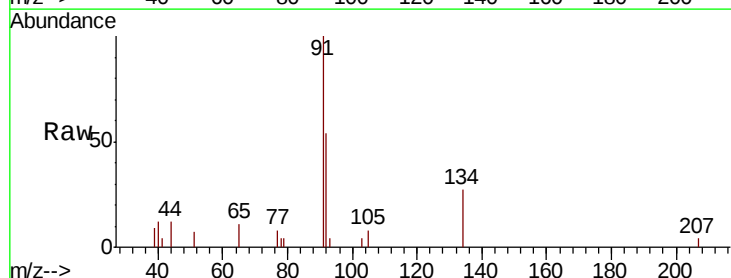
Tgt Ion: 91 Resp: 6600

Ion Ratio Lower Upper

91 100

92 51.8 0.0 104.0

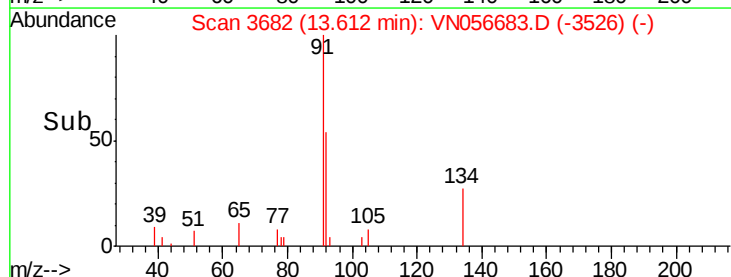
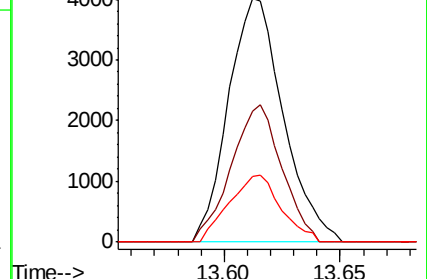
134 25.9 0.0 53.2

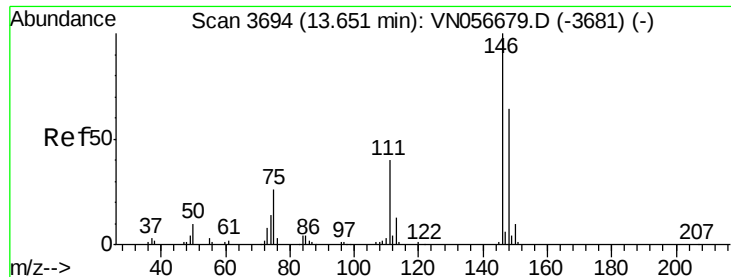


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

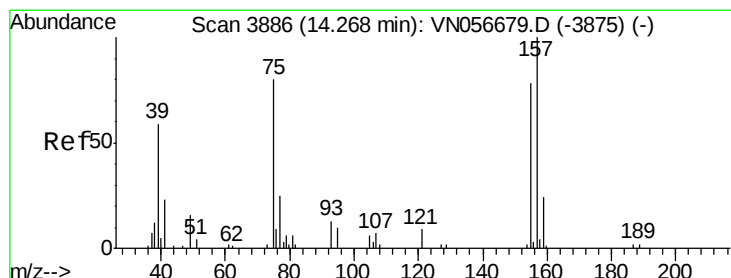
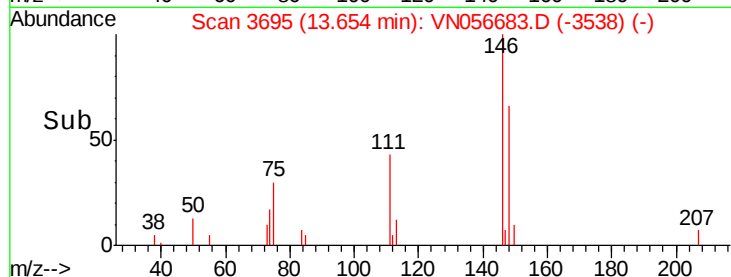
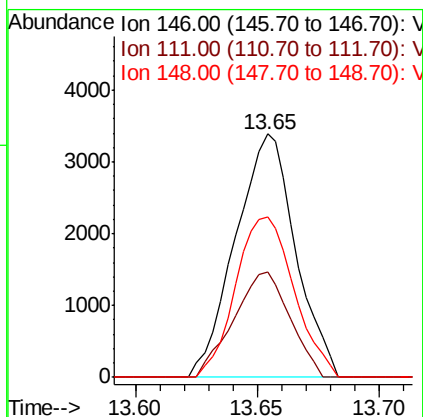
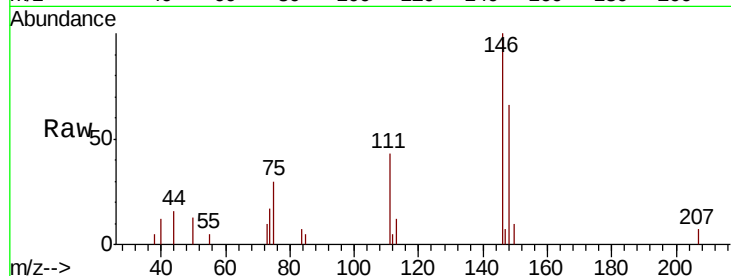




#87
 1,2-Dichlorobenzene
 Concen: 0.916 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

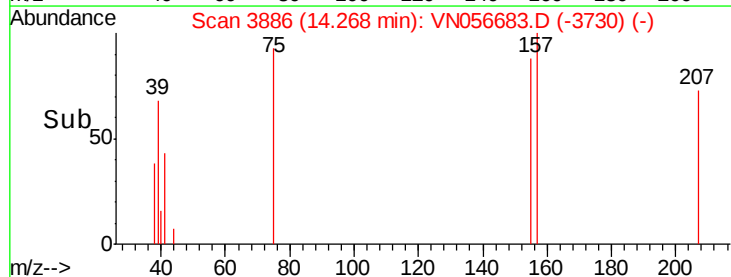
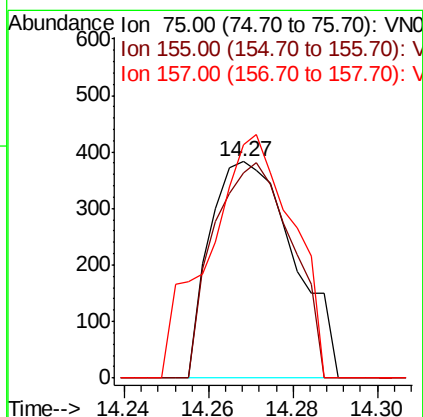
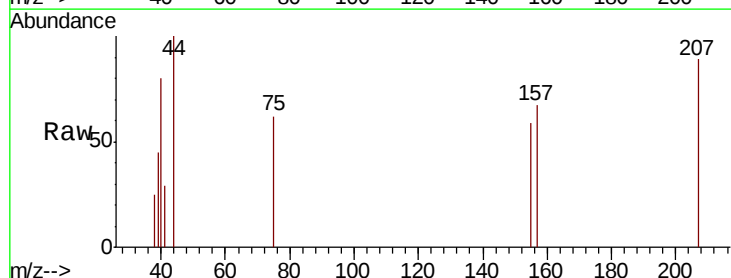
Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

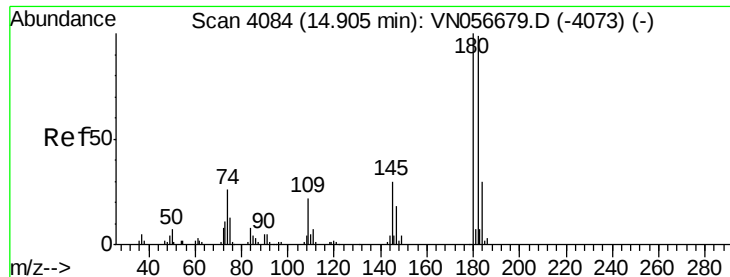
Tot Ion:146 Resp: 5766
 Ion Ratio Lower Upper
 146 100
 111 40.6 19.7 59.0
 148 64.0 32.7 98.1



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.654 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Tgt Ion: 75 Resp: 527
 Ion Ratio Lower Upper
 75 100
 155 93.2 78.6 117.8
 157 100.6 99.3 148.9

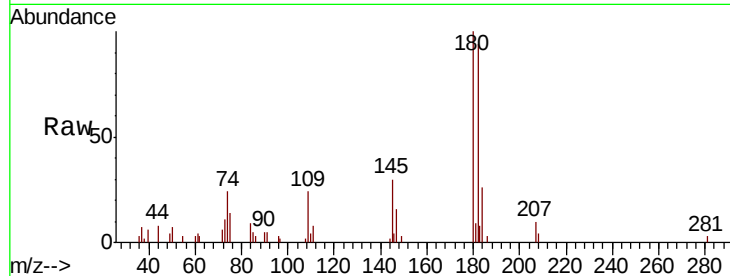




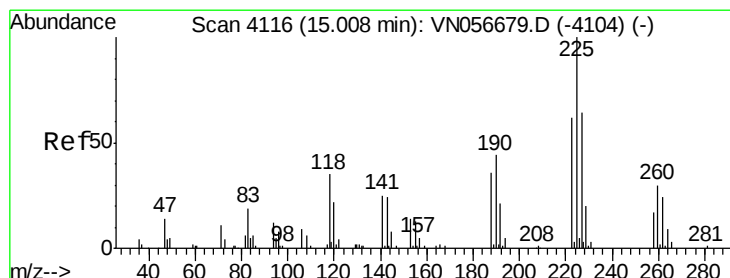
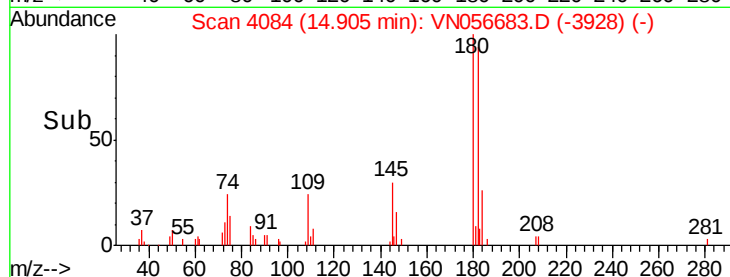
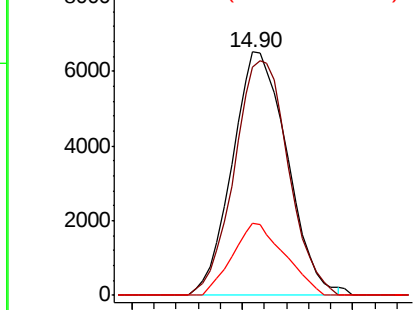
#89
 1,2,4-Trichlorobenzene
 Concen: 3.323 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Instrument :
 MSVOA_N
 ClientSampled :
 I.BLK

Tot Ion:180 Resp: 11256
 Ion Ratio Lower Upper
 180 100
 182 95.0 78.2 117.4
 145 28.1 23.2 34.8

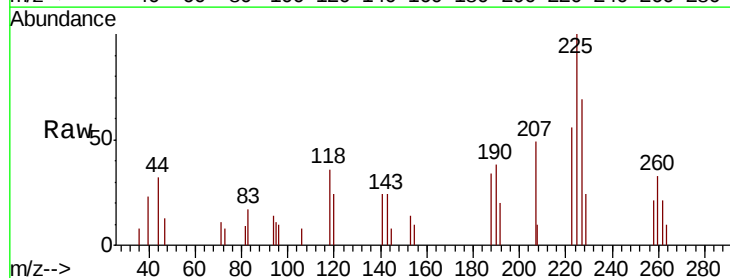


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

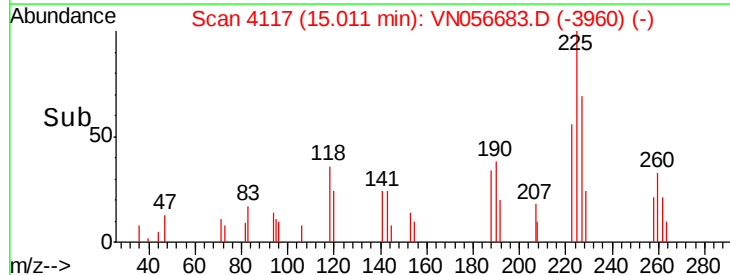
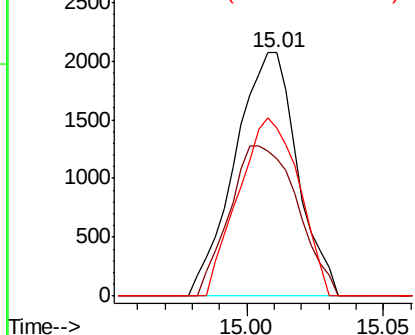


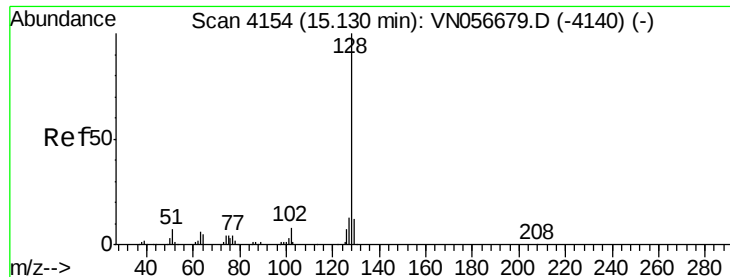
#90
 Hexachlorobutadiene
 Concen: 1.489 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056683.D
 Acq: 12 Jul 2019 12:06

Tgt Ion:225 Resp: 3280
 Ion Ratio Lower Upper
 225 100
 223 67.6 0.0 124.6
 227 71.1 0.0 128.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 3.768 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

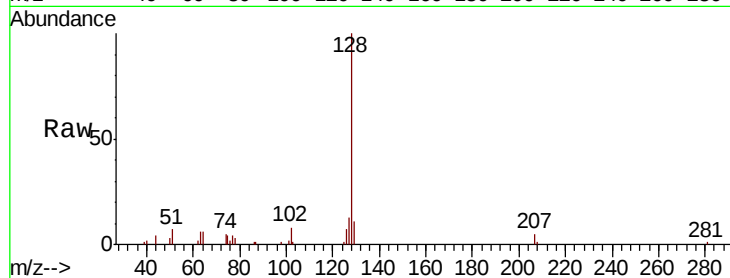
Tot Ion:128 Resp: 34322

Ion Ratio Lower Upper

128 100

127 12.4 10.4 15.6

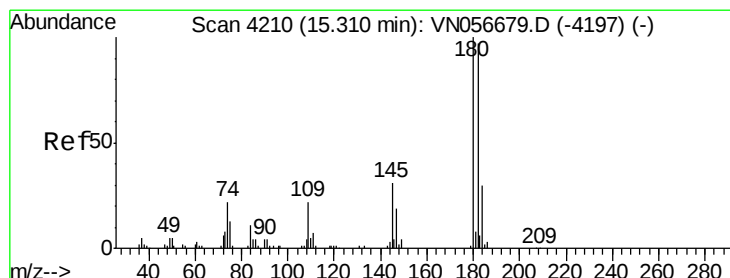
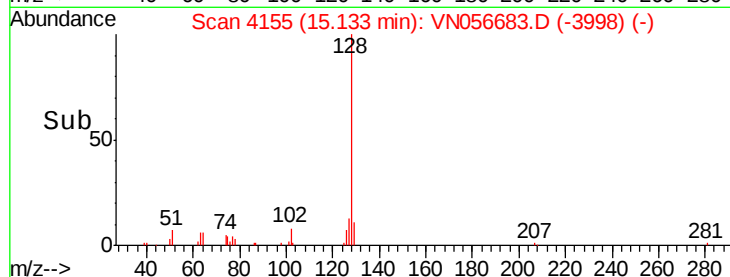
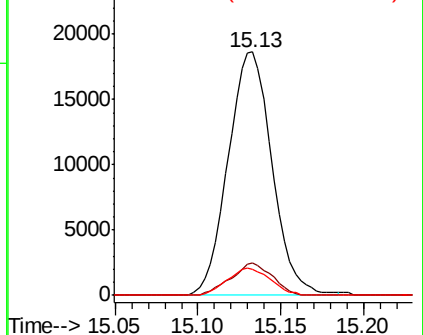
129 10.9 8.8 13.2



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



#92

1,2,3-Trichlorobenzene

Concen: 4.646 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056683.D

Acq: 12 Jul 2019 12:06

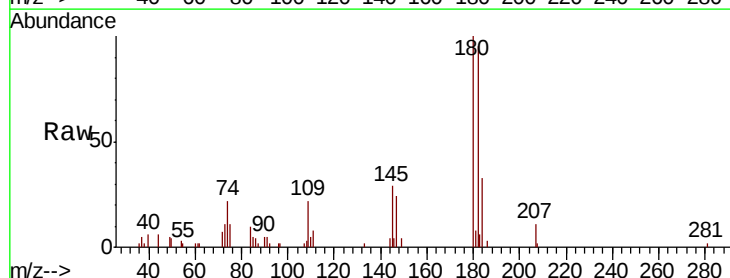
Tgt Ion:180 Resp: 16499

Ion Ratio Lower Upper

180 100

182 93.3 0.0 192.4

145 29.0 0.0 60.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

