

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055881.D
 Acq On : 29 May 2019 16:38
 Operator : JC/SP
 Sample : K3082-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: May 30 03:41:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	51752	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	270807	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	219675	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104386	30.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.87%
60) 4-Bromofluorobenzene	12.40	95	80573	23.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.60%
63) Toluene-d8	10.09	98	317907	31.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.57%

Target Compounds

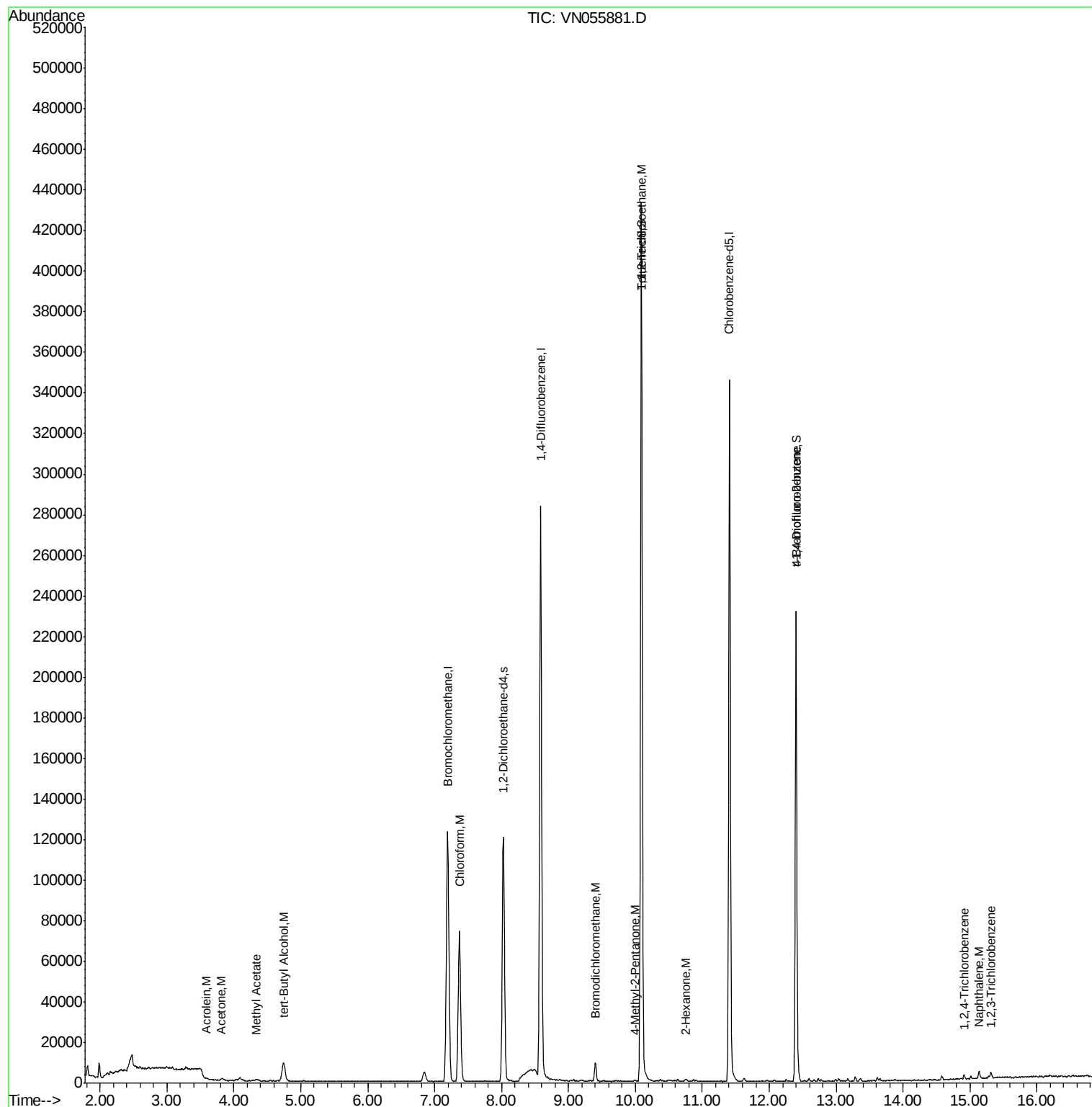
					Ovalue	
12) Methyl Acetate	4.33	43	741	0.222	ug/l #	51
13) Acrolein	3.59	56	315	0.679	ug/l #	38
15) Acetone	3.82	58	107	0.226	ug/l #	1
23) tert-Butyl Alcohol	4.74	59	8738	13.063	ug/l #	100
25) Chloroform	7.37	83	80097	15.035	ug/l	98
41) Bromodichloromethane	9.40	83	6672	1.602	ug/l	95
50) 1,1,2-Trichloroethane	10.10	97	9589	3.242	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1240	0.341	ug/l #	52
59) 2-Hexanone	10.76	43	1371	0.527	ug/l #	69
77) t-1,4-Dichloro-2-butene	12.40	75	38686	28.964	ug/l #	17
89) 1,2,4-Trichlorobenzene	14.91	180	1067	0.373	ug/l #	91
91) Naphthalene	15.13	128	4131	0.528	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.31	180	1444	0.483	ug/l	94

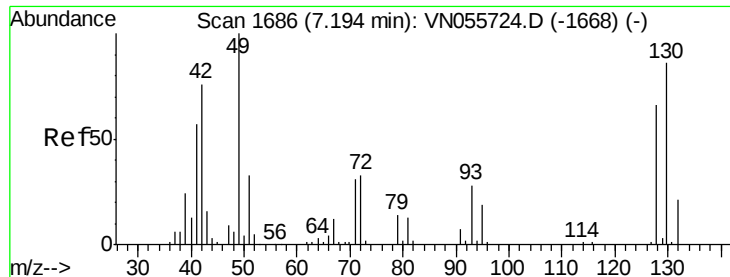
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

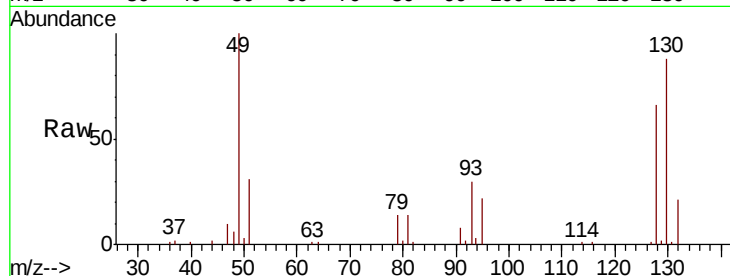




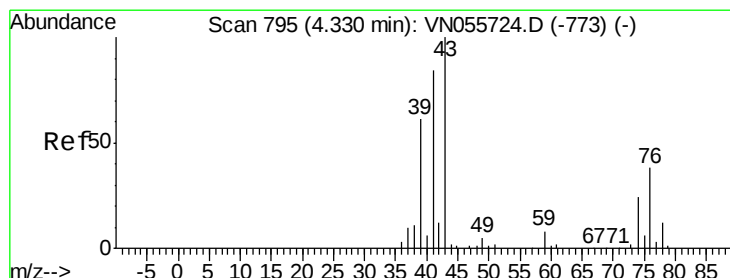
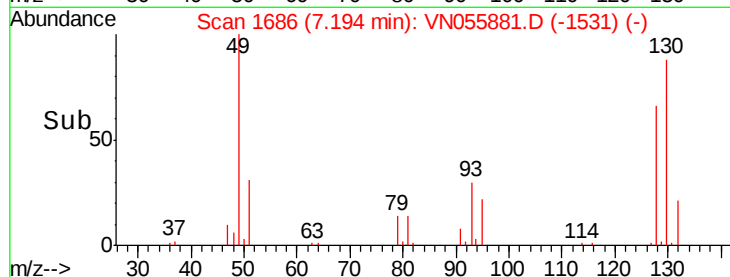
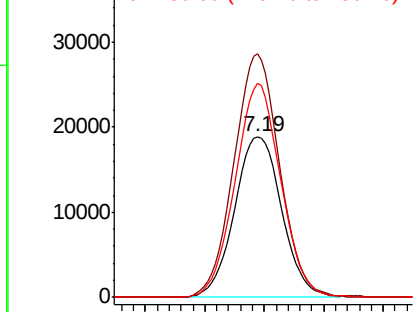
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

Instrument :
MSVOA_N
ClientSampled :
14B-1

Tot Ion:128 Resp: 51752
Ion Ratio Lower Upper
128 100
49 147.3 0.0 383.2
130 128.9 0.0 326.3

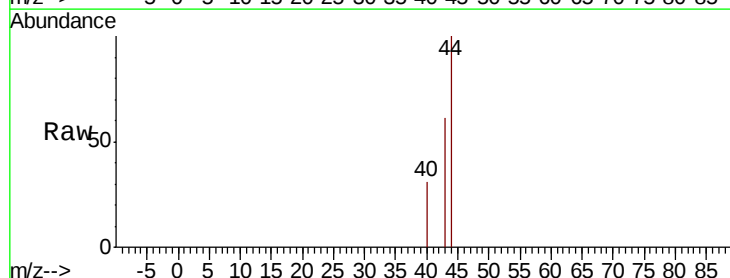


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V

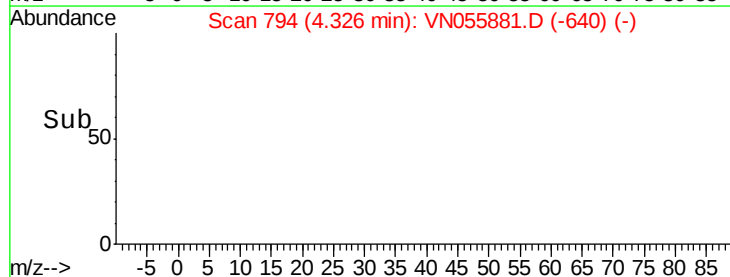
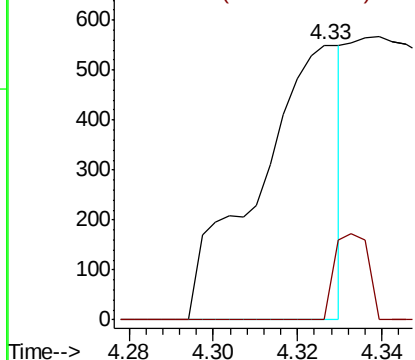


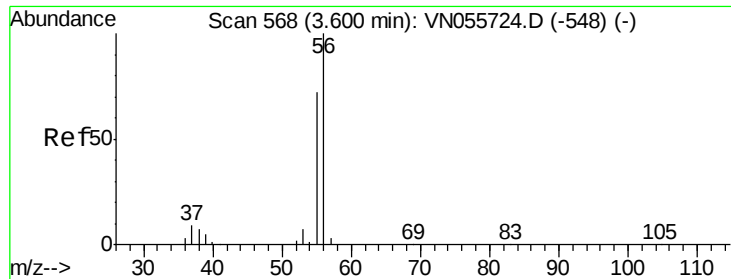
#12
Methyl Acetate
Concen: 0.222 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

Tgt Ion: 43 Resp: 741
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 0.679 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

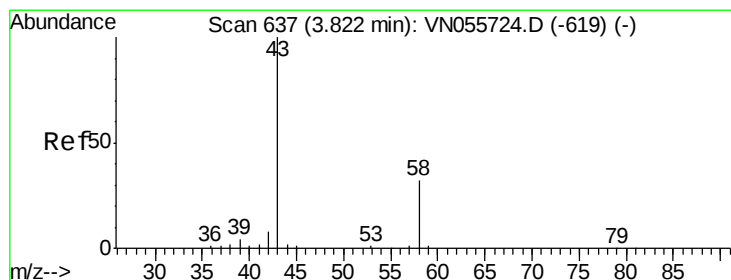
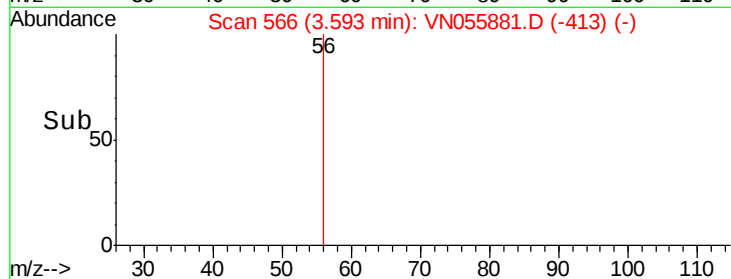
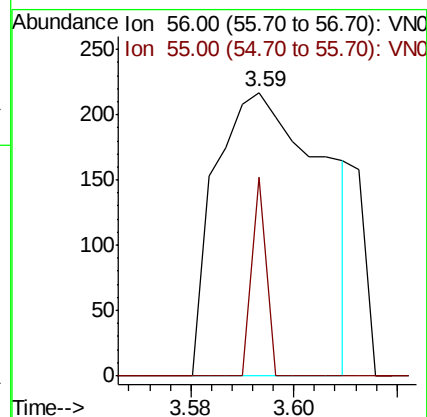
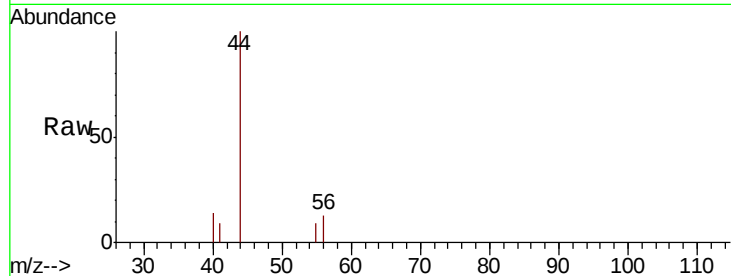
14B-1

Tot Ion: 56 Resp: 315

Ion Ratio Lower Upper

56 100

55 20.3 57.0 85.6#



#15

Acetone

Concen: 0.226 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055881.D

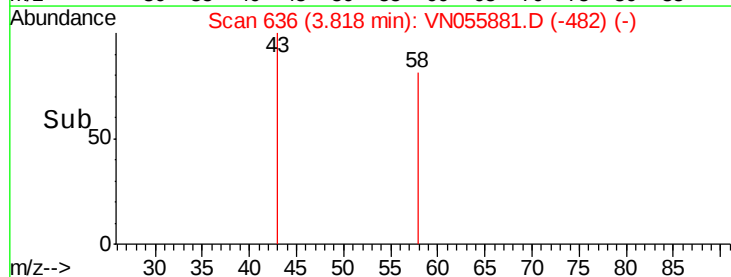
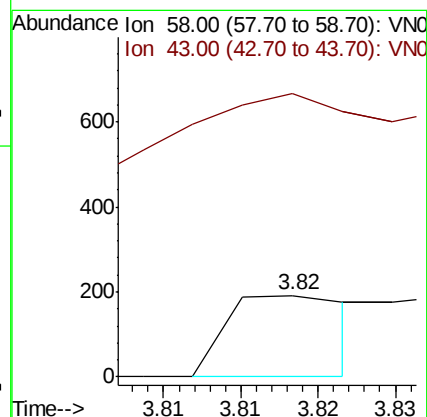
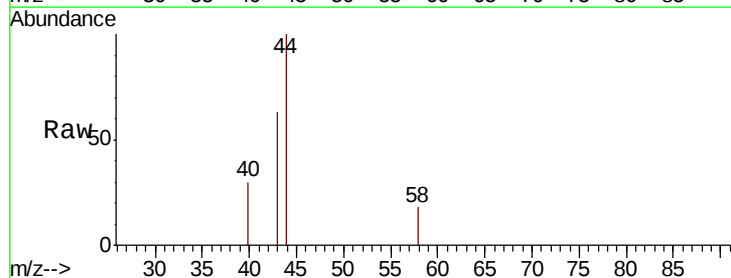
Acq: 29 May 2019 16:38

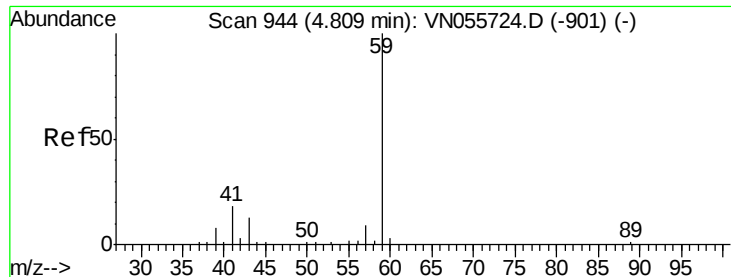
Tgt Ion: 58 Resp: 107

Ion Ratio Lower Upper

58 100

43 37.5 248.8 373.2#





#23

tert-Butyl Alcohol

Concen: 13.063 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Instrument :

MSVOA_N

ClientSampled :

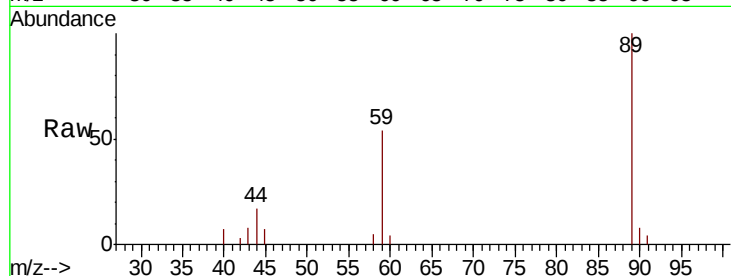
14B-1

Tot Ion: 59 Resp: 8738

Ion Ratio Lower Upper

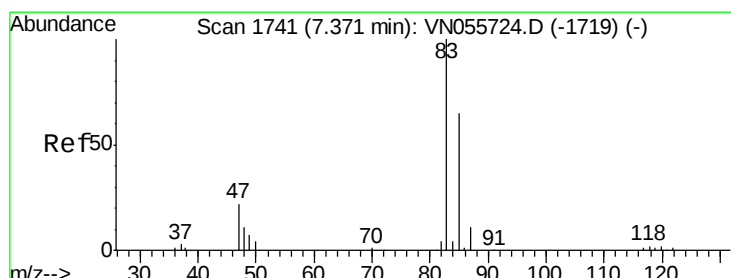
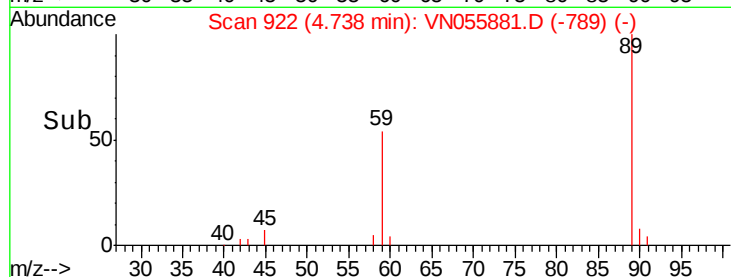
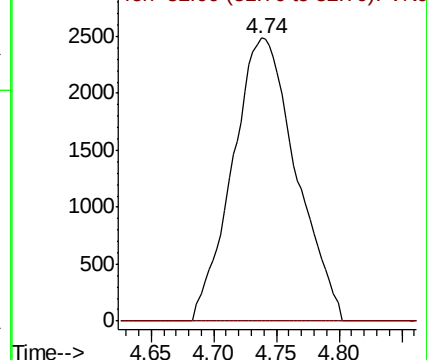
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 15.035 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055881.D

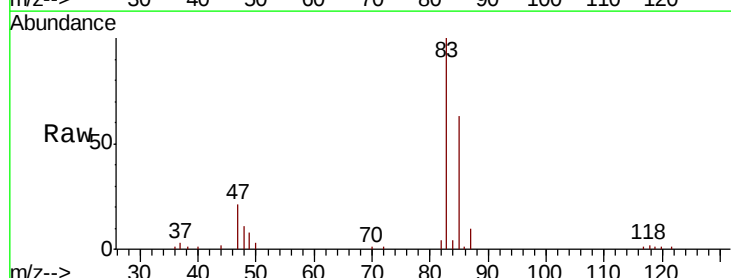
Acq: 29 May 2019 16:38

Tgt Ion: 83 Resp: 80097

Ion Ratio Lower Upper

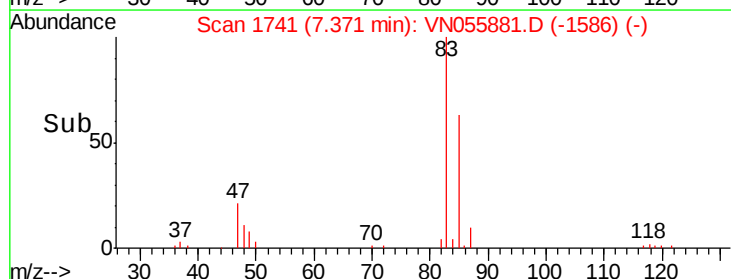
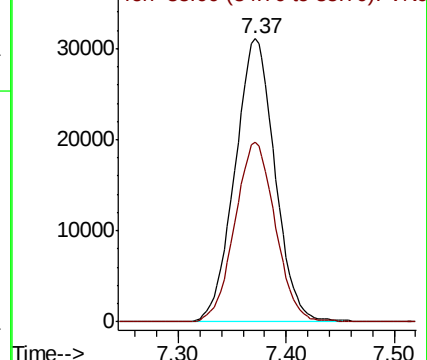
83 100

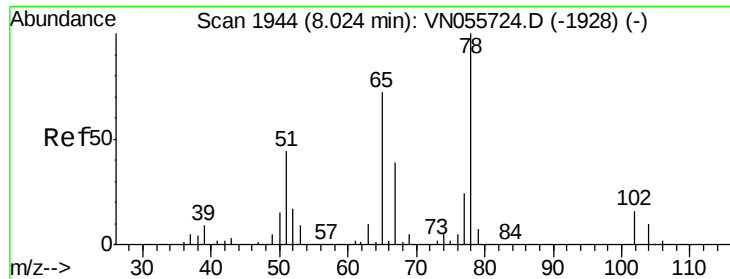
85 63.4 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.859 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

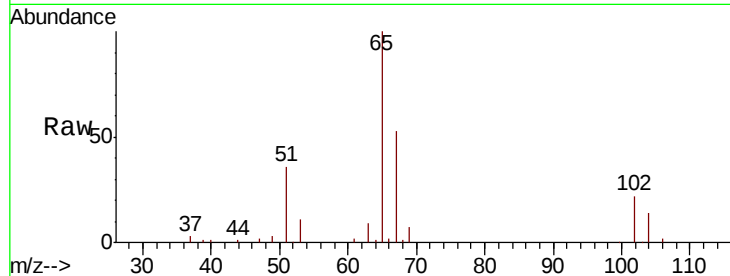
14B-1

Tot Ion: 65 Resp: 104386

Ion Ratio Lower Upper

65 100

67 53.7 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN055724.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN055724.D (-1928) (-)

8.03

50000

40000

30000

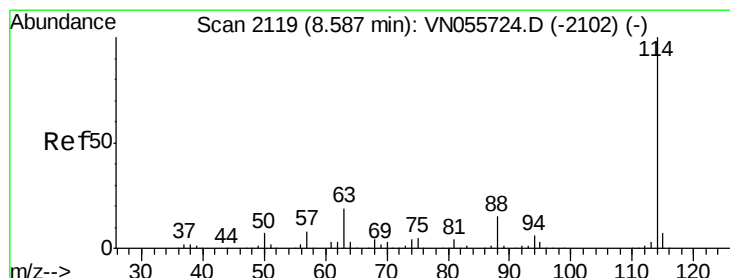
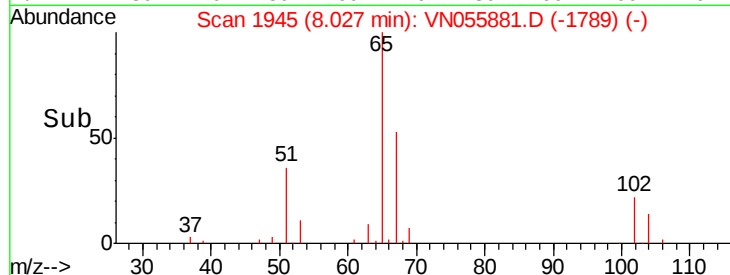
20000

10000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

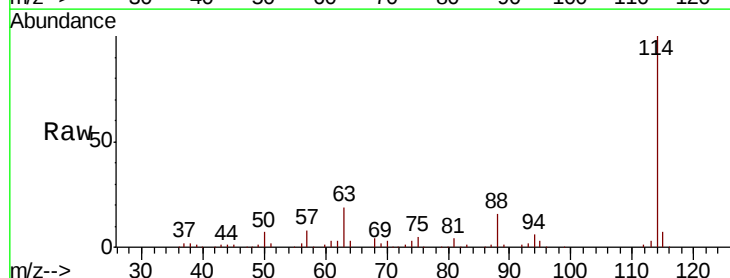
Tgt Ion: 114 Resp: 270807

Ion Ratio Lower Upper

114 100

63 19.5 15.6 23.4

88 15.2 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN055724.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN055724.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN055724.D (-2102) (-)

8.58

150000

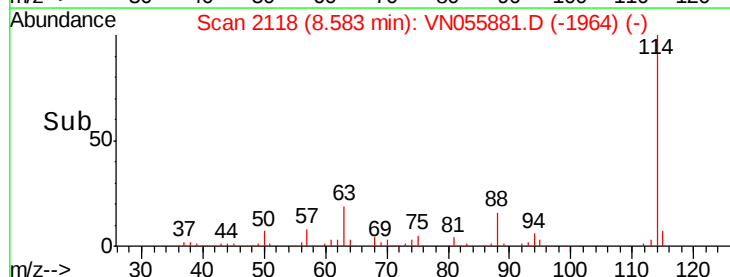
100000

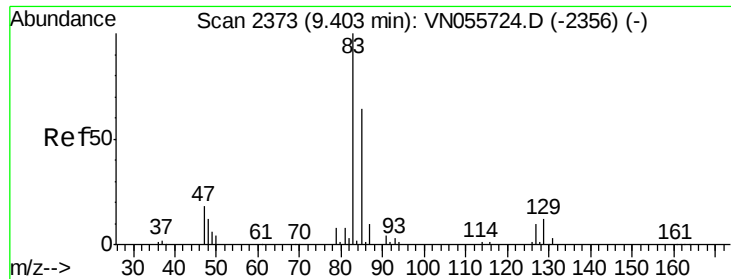
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->





#41

Bromodichloromethane

Concen: 1.602 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

14B-1

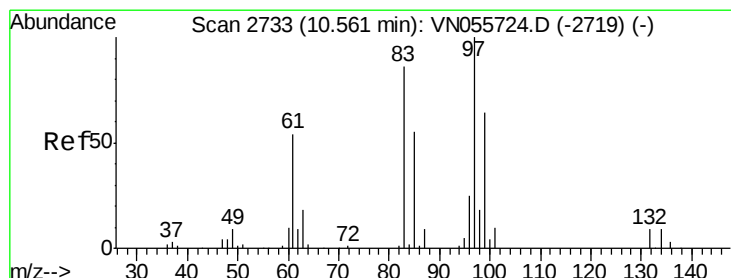
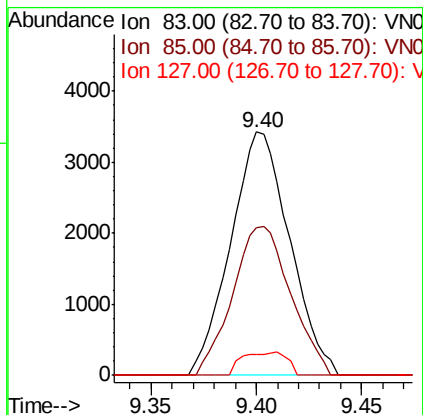
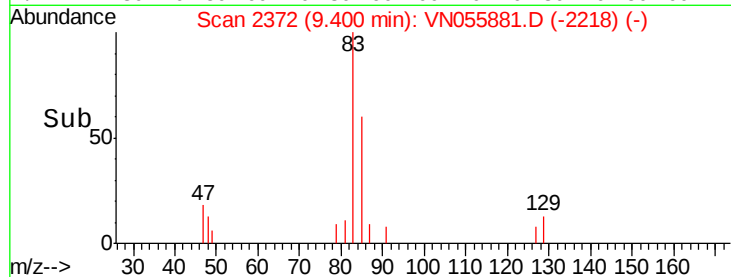
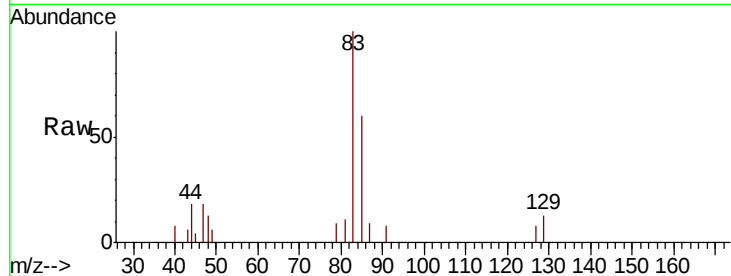
Tot Ion: 83 Resp: 6672

Ion Ratio Lower Upper

83 100

85 60.5 51.4 77.0

127 8.4 7.7 11.5



#50

1,1,2-Trichloroethane

Concen: 3.242 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Tgt Ion: 97 Resp: 9589

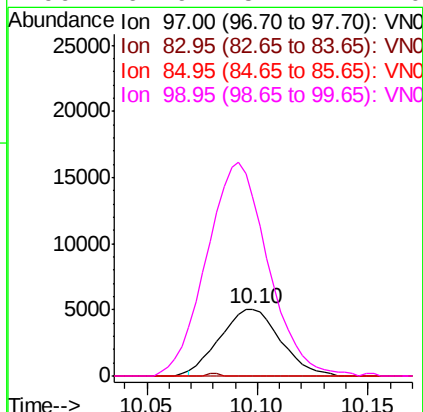
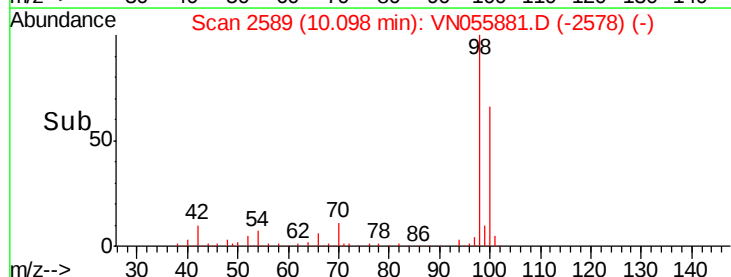
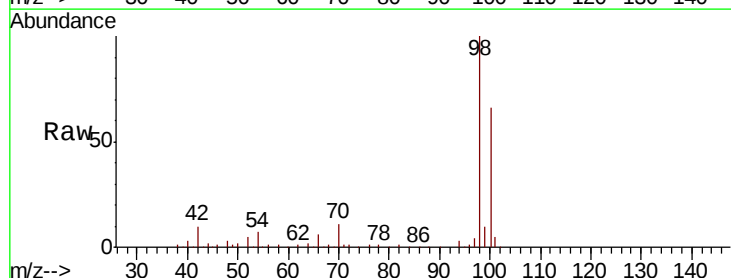
Ion Ratio Lower Upper

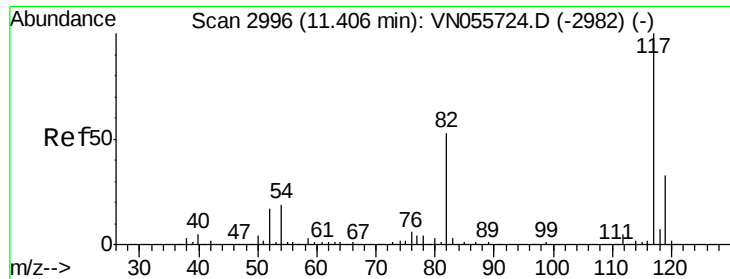
97 100

83 0.0 68.9 103.3#

85 0.0 44.3 66.5#

99 261.9 51.4 77.0#

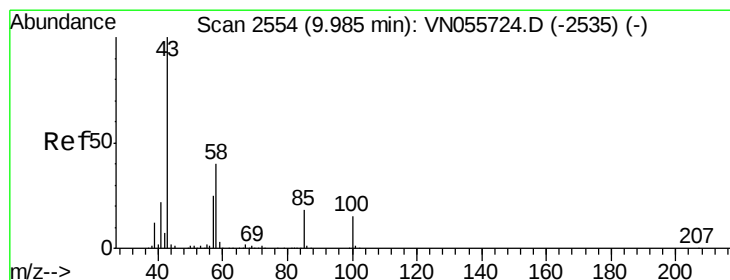
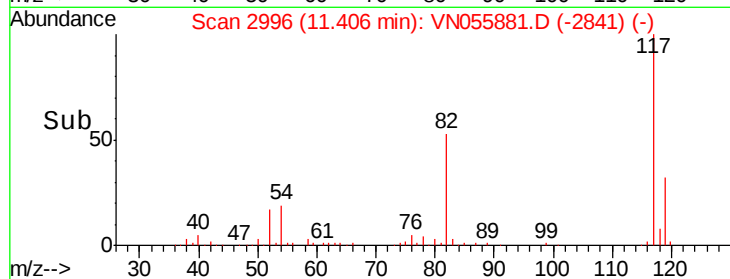
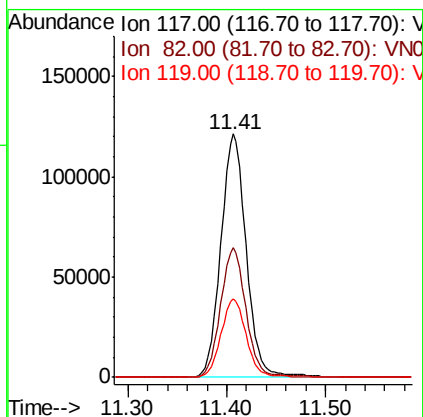
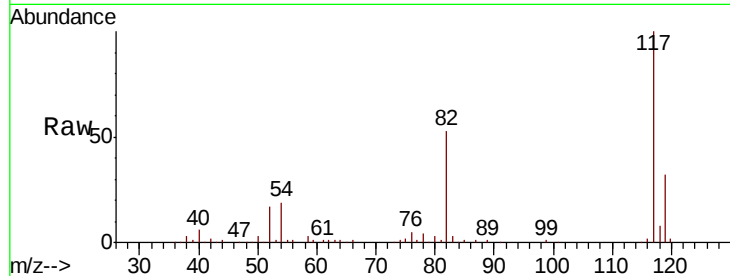




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

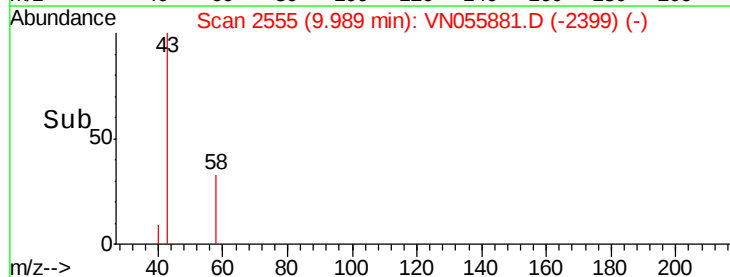
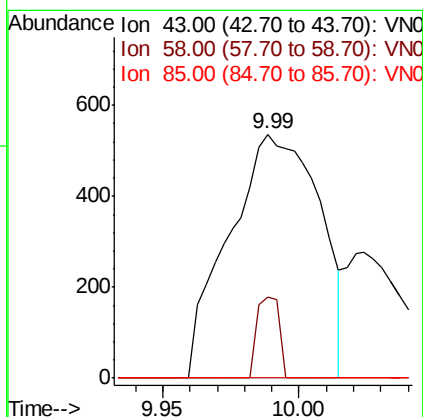
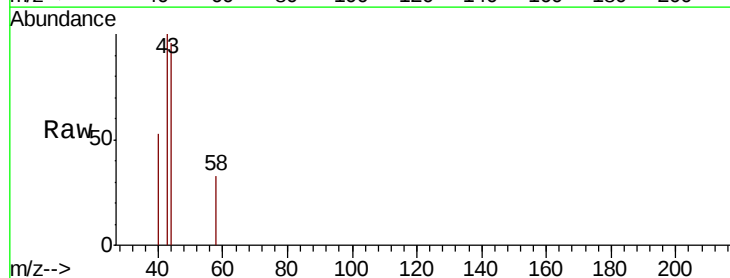
Instrument :
MSVOA_N
ClientSampleId :
14B-1

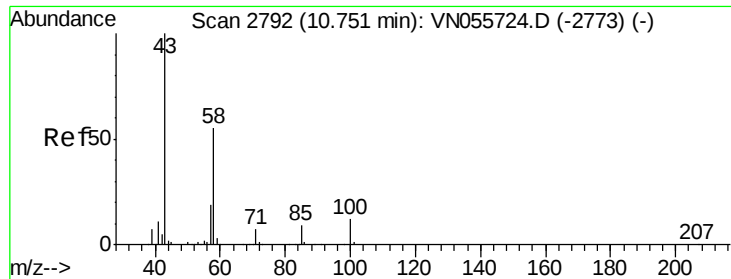
Tot Ion:117 Resp: 219675
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.2 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

Tgt Ion: 43 Resp: 1240
Ion Ratio Lower Upper
43 100
58 8.0 31.7 47.5#
85 0.0 14.5 21.7#

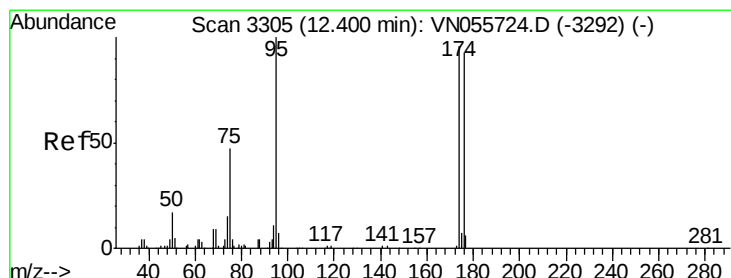
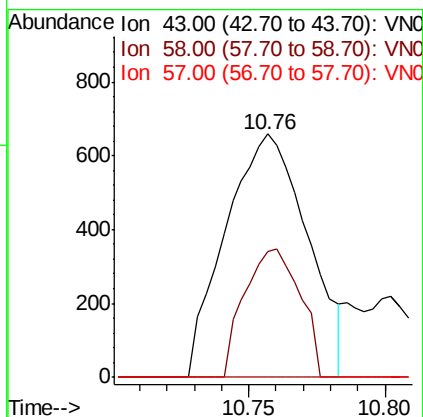
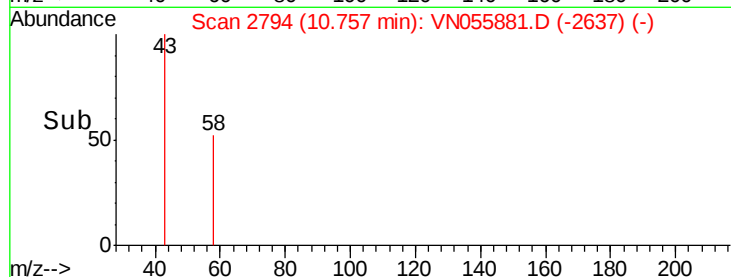
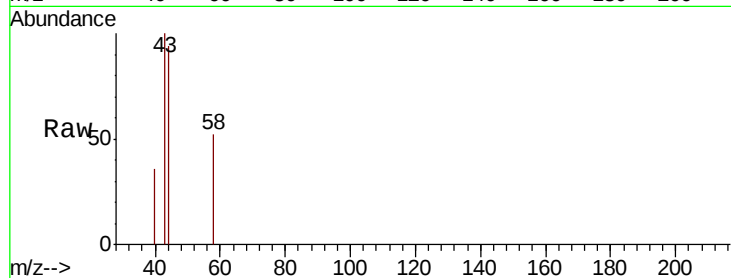




#59
2-Hexanone
Concen: 0.527 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

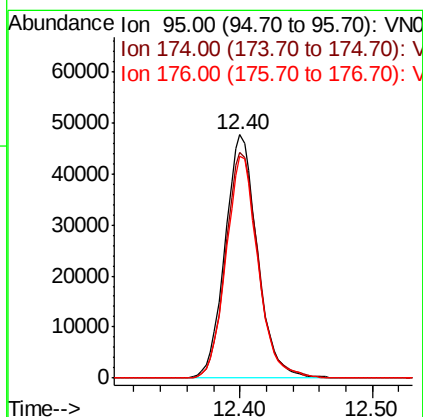
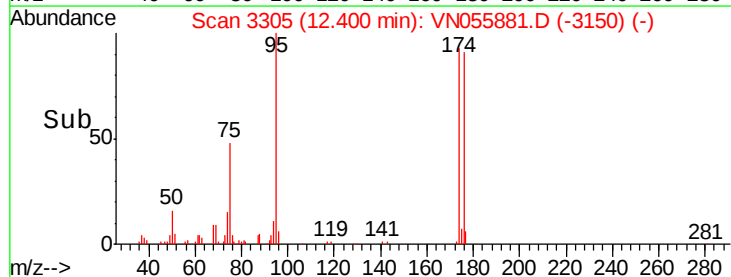
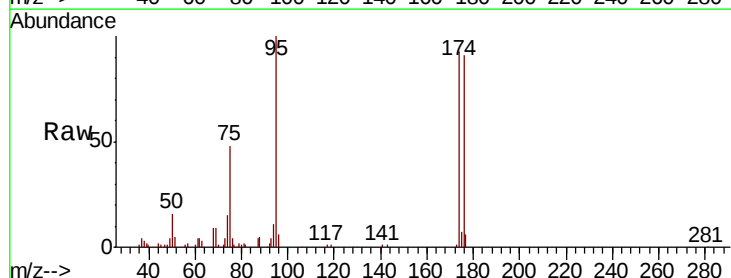
Instrument :
MSVOA_N
ClientSampleId :
14B-1

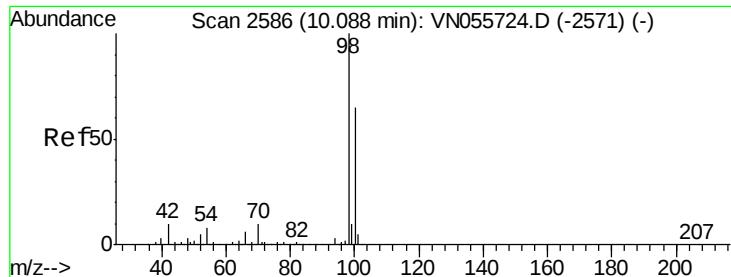
Tot Ion: 43 Resp: 1371
Ion Ratio Lower Upper
43 100
58 36.0 44.8 67.2#
57 0.0 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 23.578 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055881.D
Acq: 29 May 2019 16:38

Tgt Ion: 95 Resp: 80573
Ion Ratio Lower Upper
95 100
174 93.9 75.7 113.5
176 90.3 74.1 111.1





#63

Toluene-d8

Concen: 31.667 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

Instrument :

MSVOA_N

ClientSampleId :

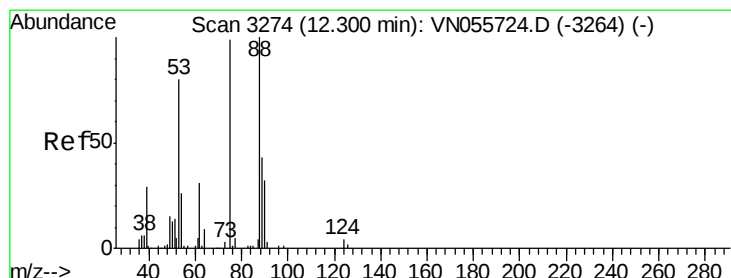
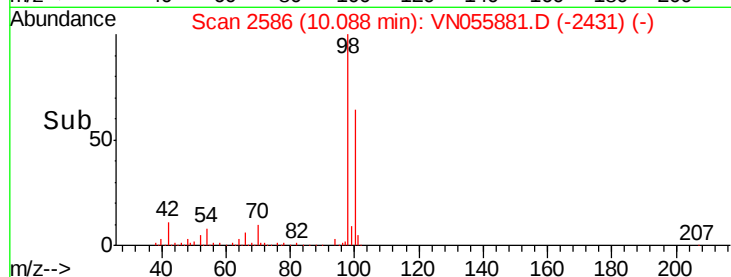
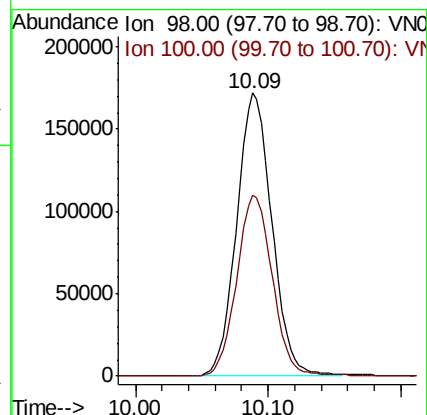
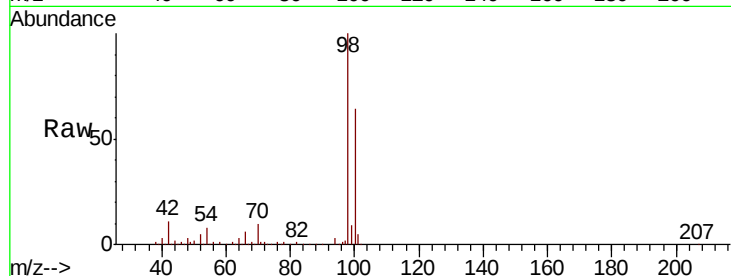
14B-1

Tot Ion: 98 Resp: 317907

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4



#77

t-1,4-Dichloro-2-butene

Concen: 28.964 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055881.D

Acq: 29 May 2019 16:38

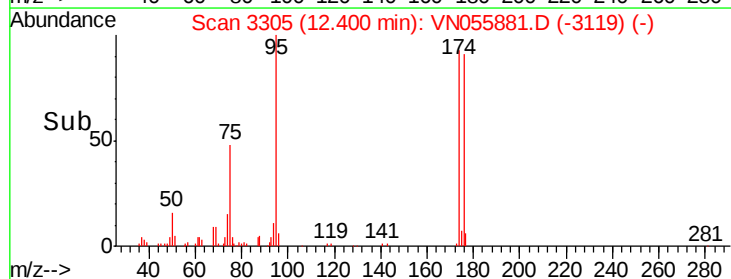
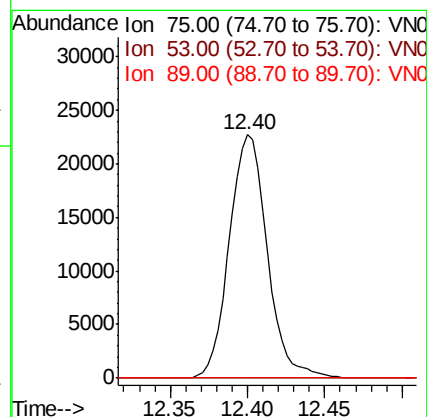
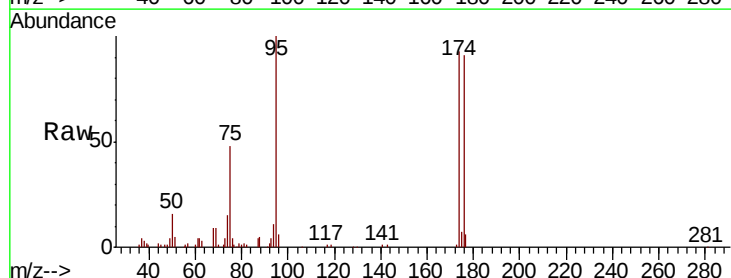
Tgt Ion: 75 Resp: 38686

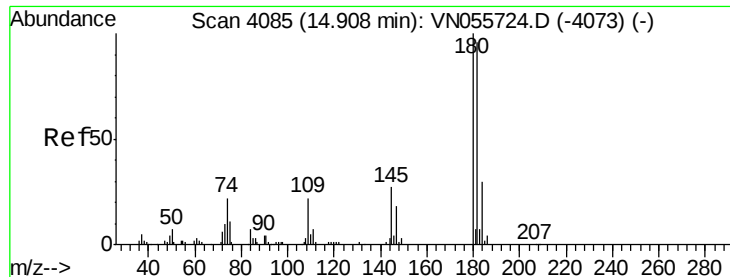
Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#

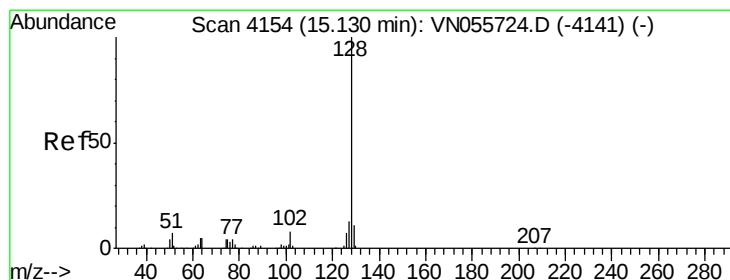
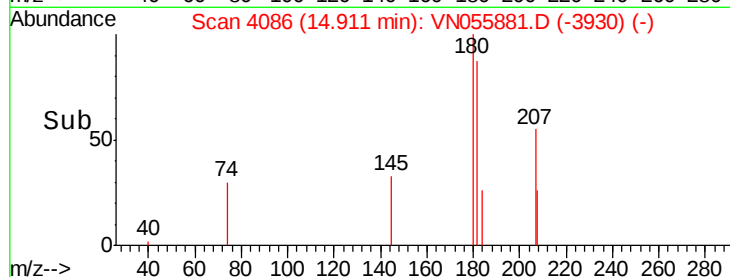
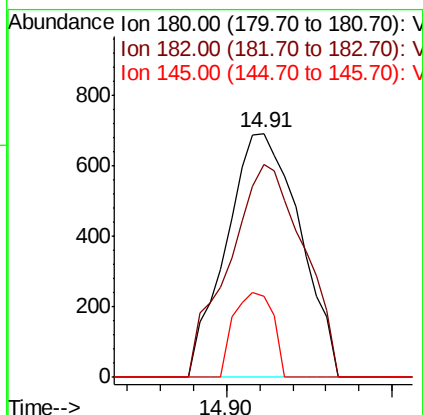
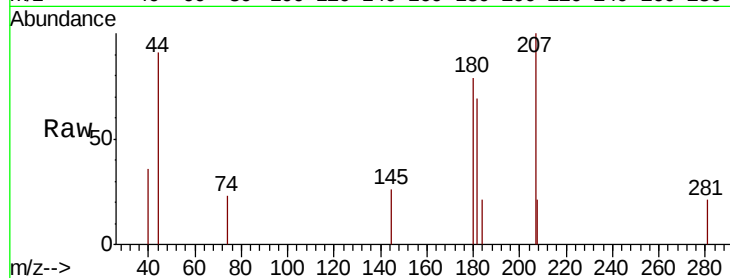




#89
 1,2,4-Trichlorobenzene
 Concen: 0.373 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055881.D
 Acq: 29 May 2019 16:38

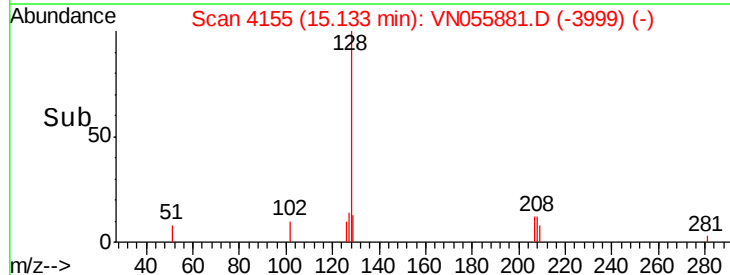
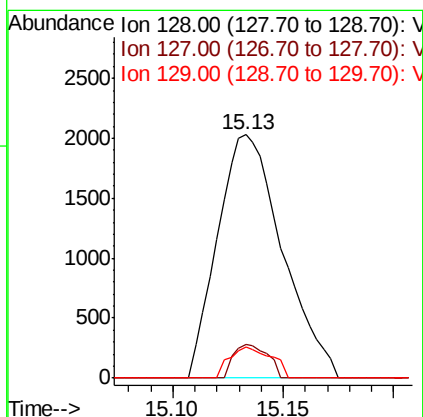
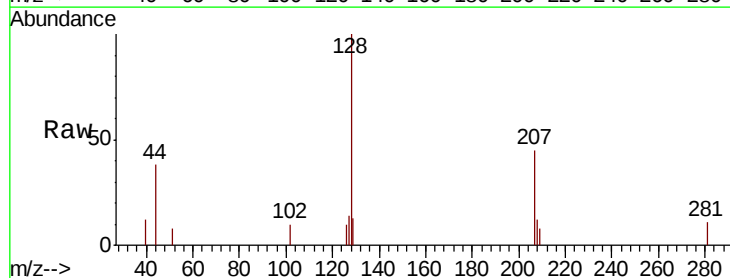
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

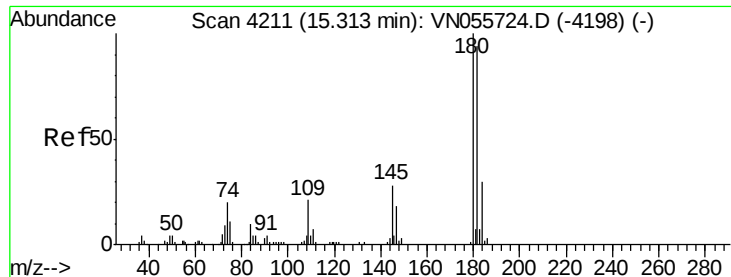
Tot Ion:180 Resp: 1067
 Ion Ratio Lower Upper
 180 100
 182 88.9 76.1 114.1
 145 18.7 21.8 32.8#



#91
 Naphthalene
 Concen: 0.528 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN055881.D
 Acq: 29 May 2019 16:38

Tgt Ion:128 Resp: 4131
 Ion Ratio Lower Upper
 128 100
 127 7.3 10.0 15.0#
 129 8.4 8.7 13.1#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.483 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN055881.D
 Acq: 29 May 2019 16:38

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Tot Ion:180 Resp: 1444
 Ion Ratio Lower Upper
 180 100
 182 94.3 0.0 188.6
 145 15.3 0.0 56.8

