

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055873.D
 Acq On : 29 May 2019 13:18
 Operator : JC/SP
 Sample : K3070-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: May 30 03:38:59 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	54369	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	285997	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	233085	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106003	29.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.43%
60) 4-Bromofluorobenzene	12.40	95	87320	24.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.27%
63) Toluene-d8	10.09	98	334207	31.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.60%

Target Compounds

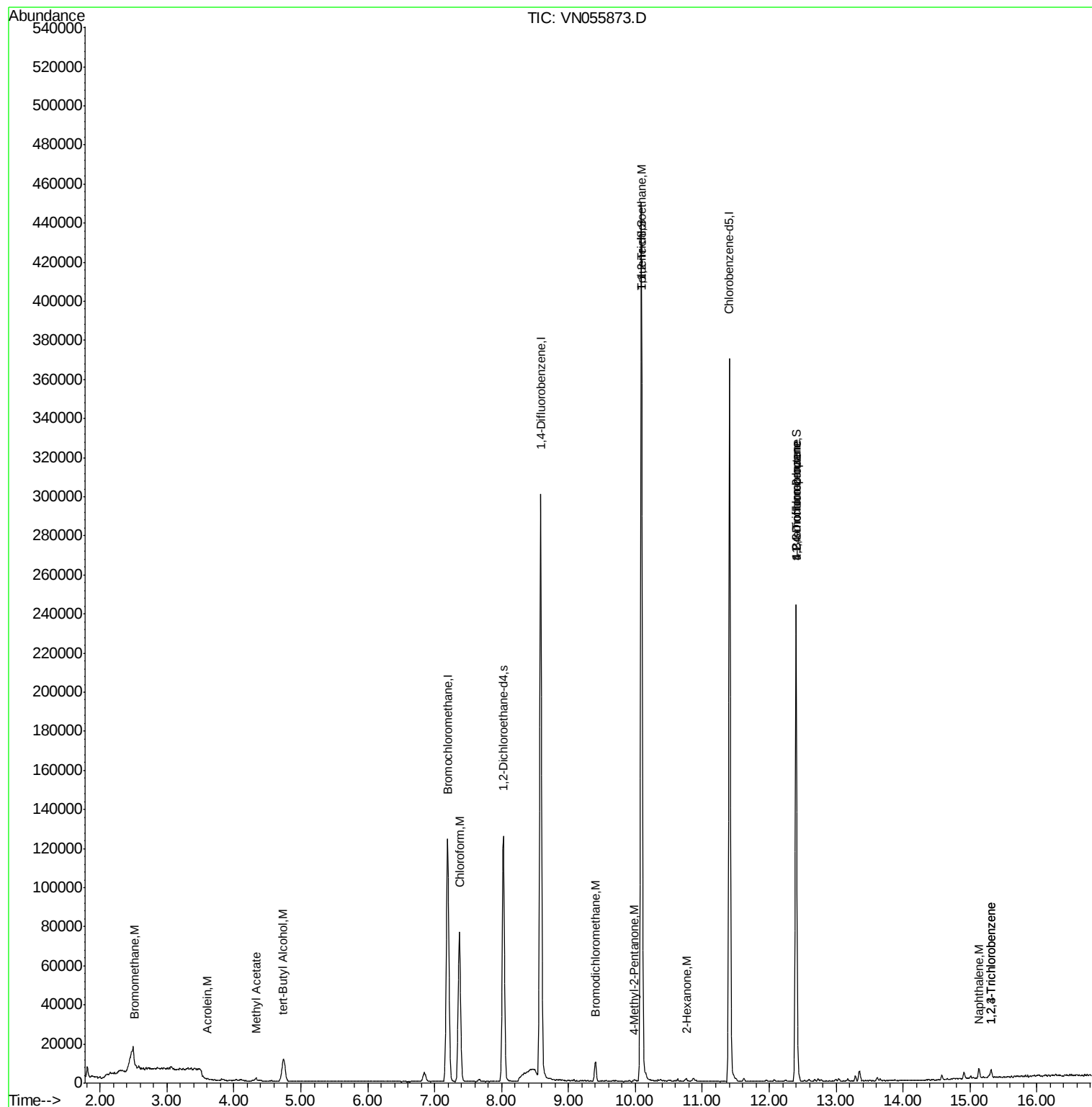
					Ovalue
5) Bromomethane	2.53	94	542	0.268 ug/l #	75
12) Methyl Acetate	4.33	43	2330	0.664 ug/l	93
13) Acrolein	3.60	56	150	0.308 ug/l #	76
23) tert-Butyl Alcohol	4.74	59	11027	15.691 ug/l #	100
25) Chloroform	7.37	83	81681	14.594 ug/l	98
41) Bromodichloromethane	9.40	83	7041	1.601 ug/l	92
50) 1,1,2-Trichloroethane	10.10	97	9622	3.080 ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	948	0.246 ug/l #	58
59) 2-Hexanone	10.76	43	1623	0.588 ug/l #	84
72) 1,2,3-Trichloropropane	12.40	75	40494	11.350 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	40494	28.573 ug/l #	17
89) 1,2,4-Trichlorobenzene	15.32	180	1928	0.635 ug/l	95
91) Naphthalene	15.13	128	6196	0.747 ug/l #	86
92) 1,2,3-Trichlorobenzene	15.32	180	1928	0.608 ug/l	95

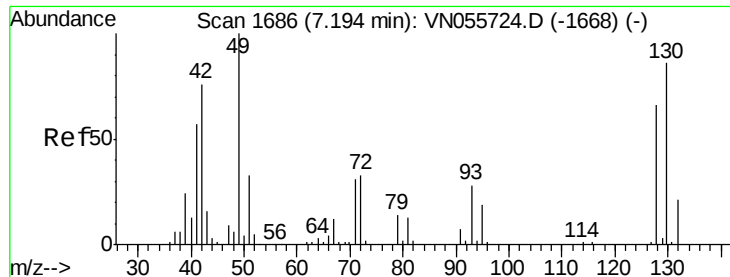
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052919\
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MSVOA_N
ClientSampled :
14B-1

Quant Time: May 30 03:38:59 2019
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

14B-1

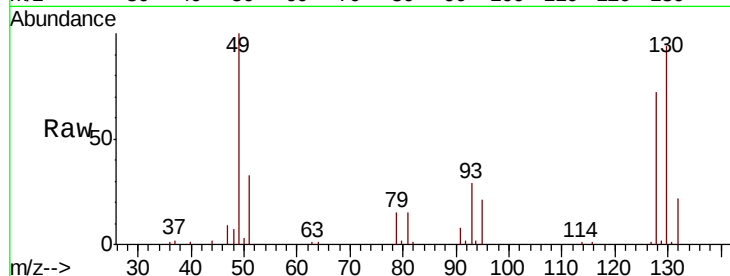
Tot Ion:128 Resp: 54369

Ion Ratio Lower Upper

128 100

49 139.5 0.0 383.2

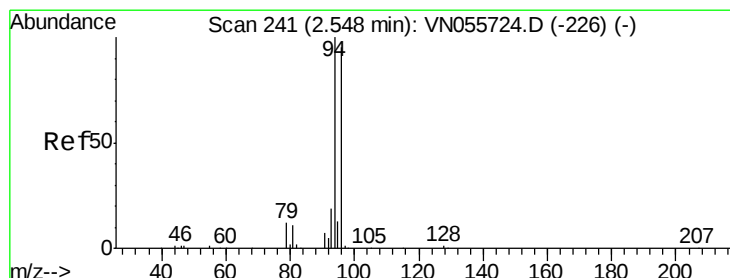
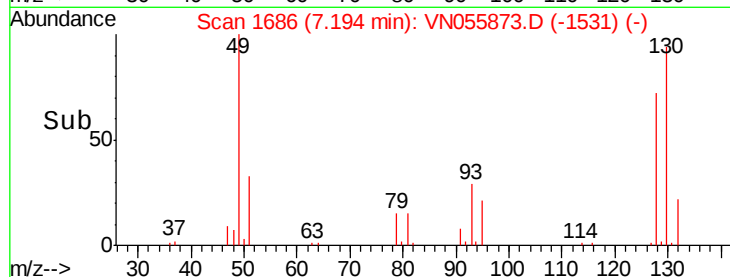
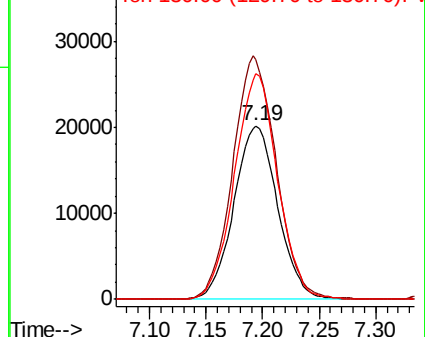
130 127.9 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.268 ug/l

RT: 2.53 min Scan# 235

Delta R.T. -0.02 min

Lab File: VN055873.D

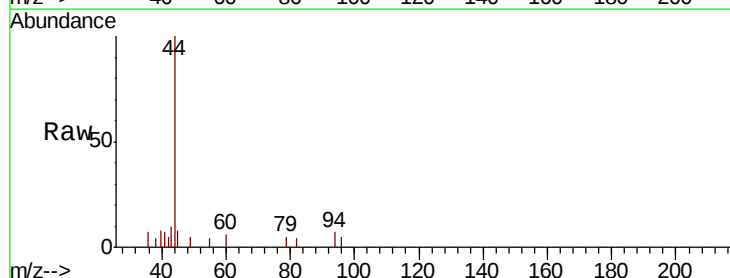
Acq: 29 May 2019 13:18

Tgt Ion: 94 Resp: 542

Ion Ratio Lower Upper

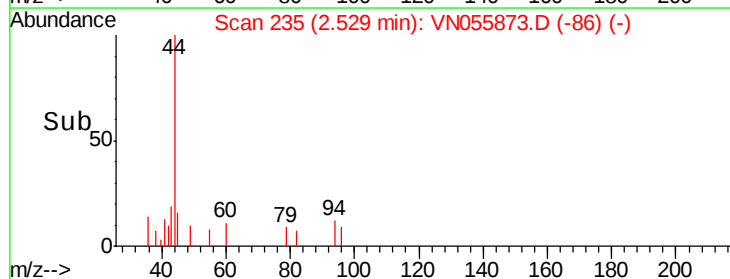
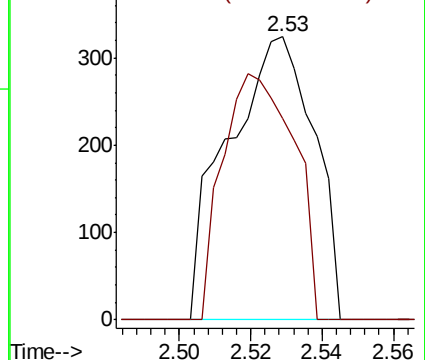
94 100

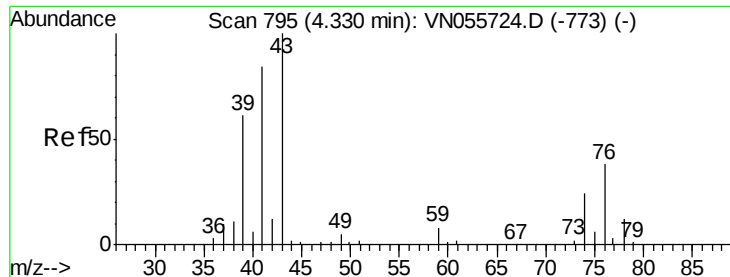
96 71.0 75.8 113.8#



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#12

Methvl Acetate

Concen: 0.664 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

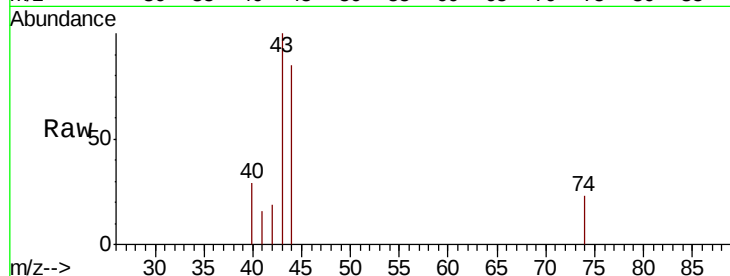
14B-1

Tot Ion: 43 Resp: 2330

Ion Ratio Lower Upper

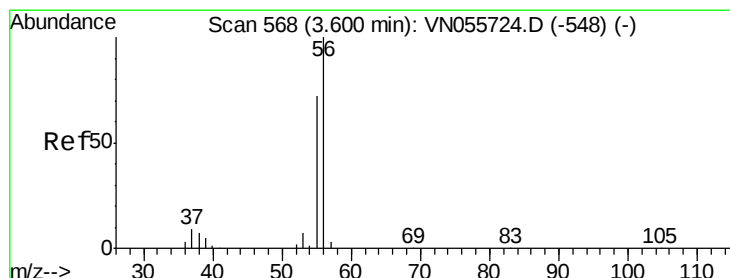
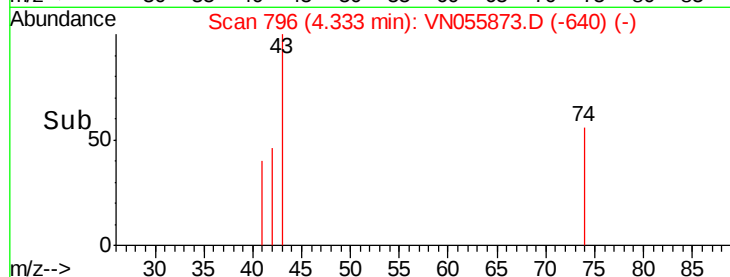
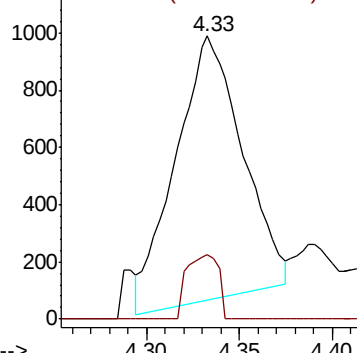
43 100

74 27.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#13

Acrolein

Concen: 0.308 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN055873.D

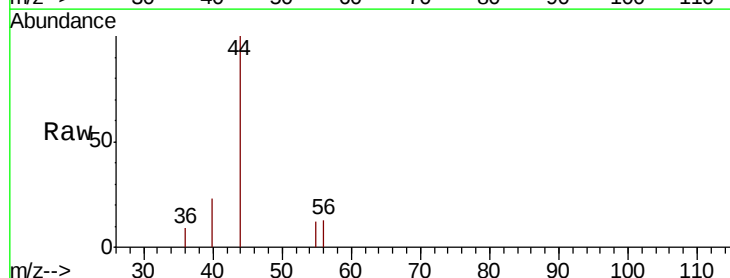
Acq: 29 May 2019 13:18

Tgt Ion: 56 Resp: 150

Ion Ratio Lower Upper

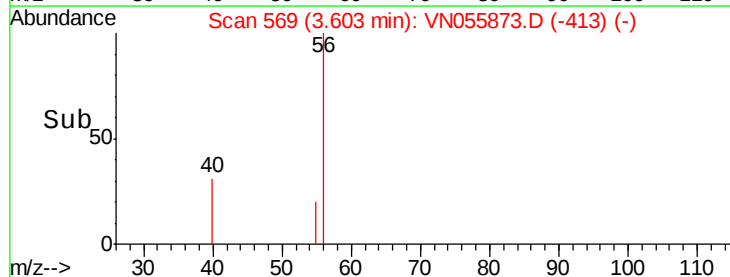
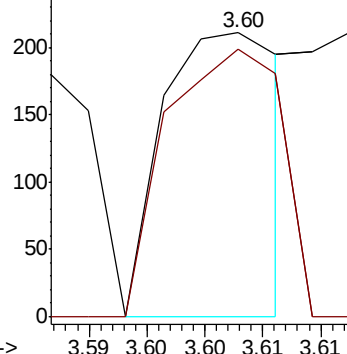
56 100

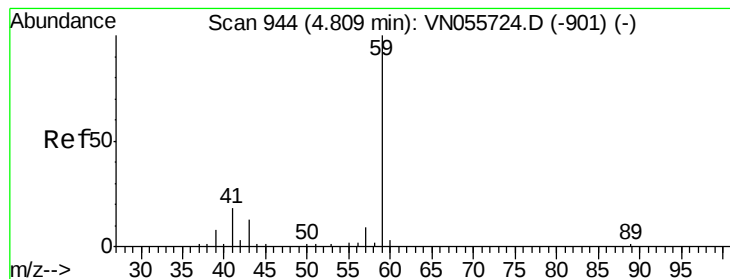
55 91.3 57.0 85.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#23

tert-Butyl Alcohol

Concen: 15.691 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

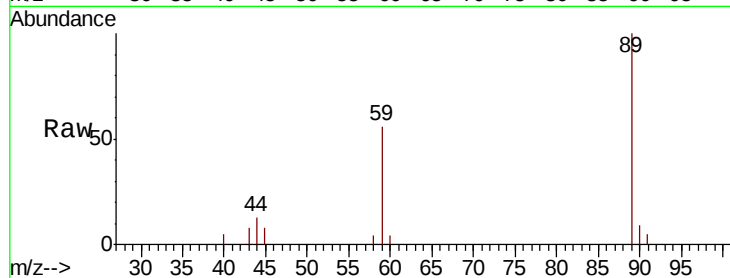
14B-1

Tot Ion: 59 Resp: 11027

Ion Ratio Lower Upper

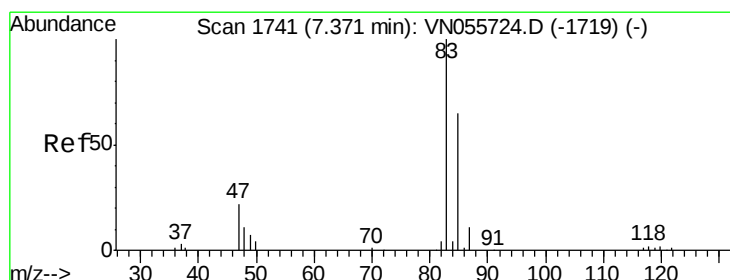
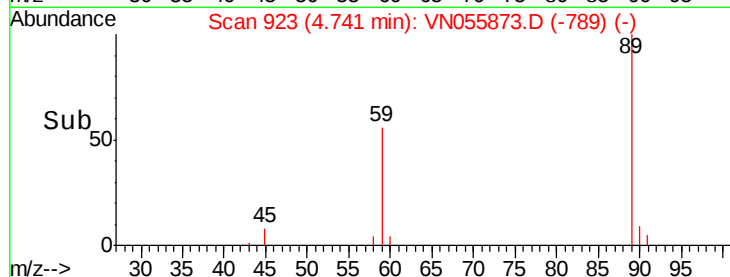
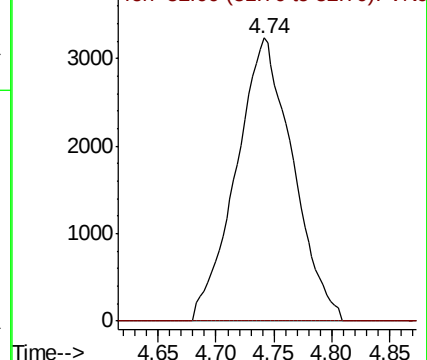
59 100

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: 14.594 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055873.D

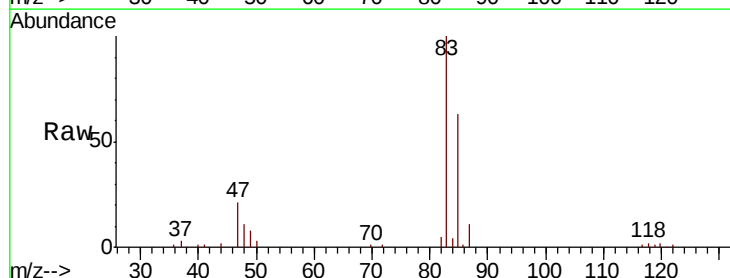
Acq: 29 May 2019 13:18

Tgt Ion: 83 Resp: 81681

Ion Ratio Lower Upper

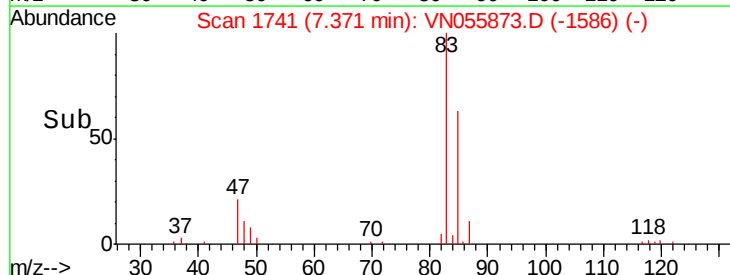
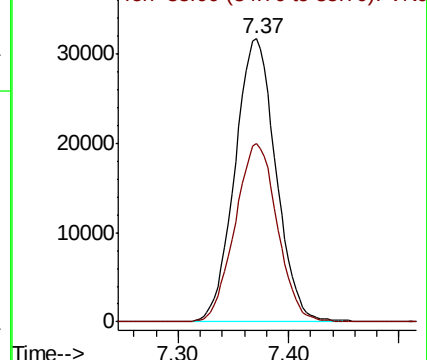
83 100

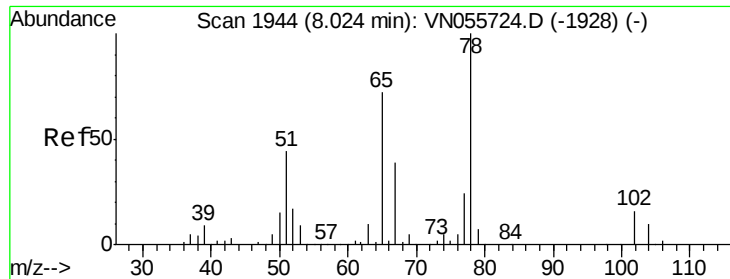
85 63.0 51.7 77.5



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: 29.829 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

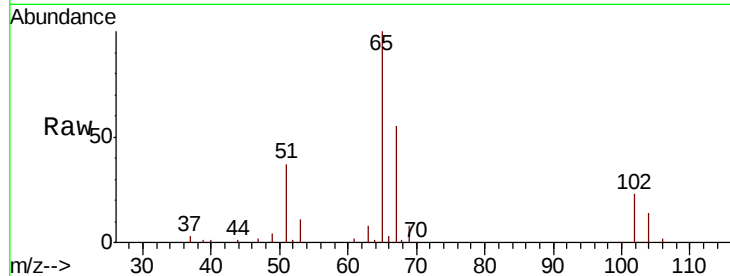
14B-1

Tot Ion: 65 Resp: 106003

Ion Ratio Lower Upper

65 100

67 54.6 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN055873.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN055873.D (-1928) (-)

8.03

50000

40000

30000

20000

10000

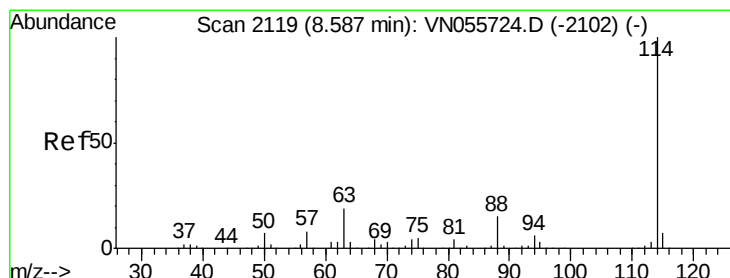
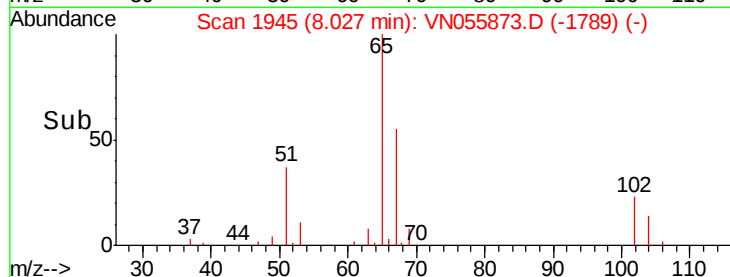
0

Time-->

7.90

8.00

8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

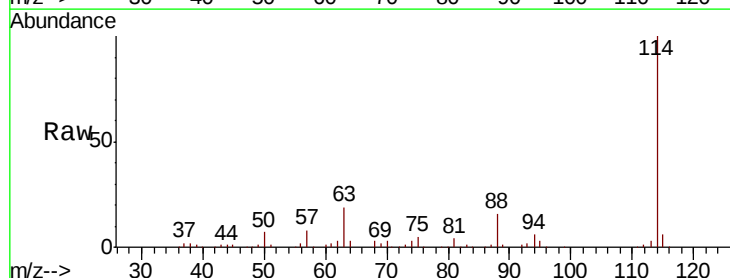
Tgt Ion: 114 Resp: 285997

Ion Ratio Lower Upper

114 100

63 18.9 15.6 23.4

88 15.1 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN055873.D (-1964) (-)

Ion 63.00 (62.70 to 63.70): VN055873.D (-1964) (-)

Ion 88.00 (87.70 to 88.70): VN055873.D (-1964) (-)

8.58

150000

100000

50000

0

Time-->

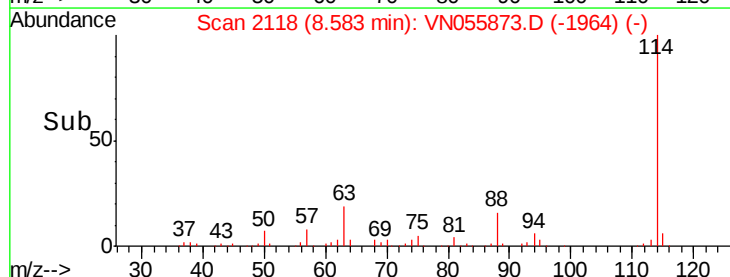
8.50

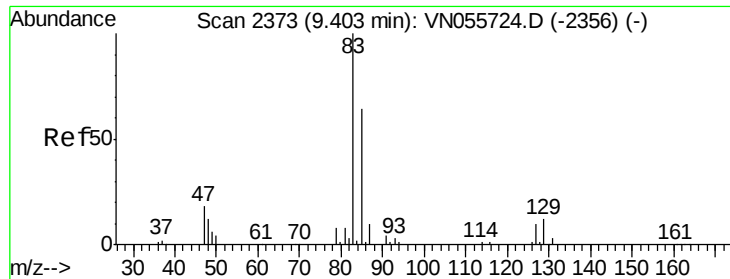
8.55

8.60

8.65

8.70





#41

Bromodichloromethane

Concen: 1.601 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

14B-1

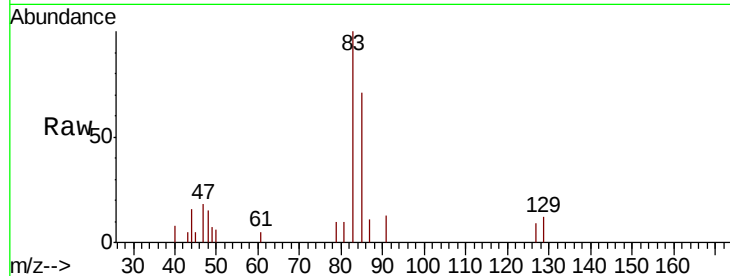
Tot Ion: 83 Resp: 7041

Ion Ratio Lower Upper

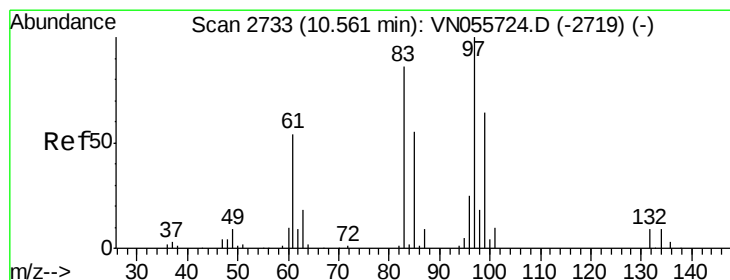
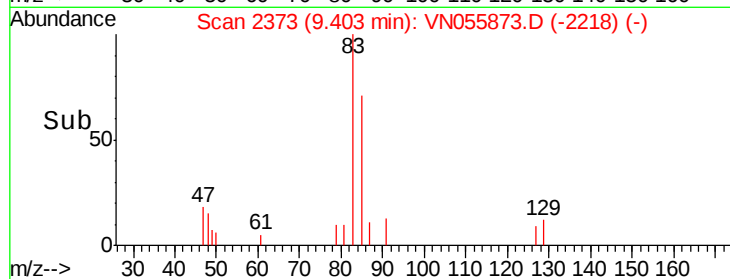
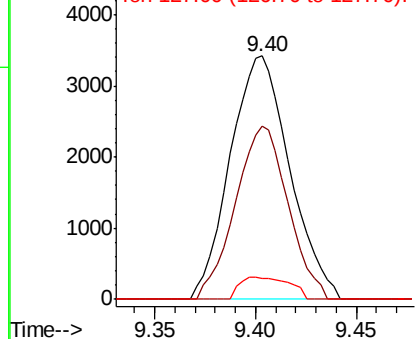
83 100

85 71.1 51.4 77.0

127 8.8 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.080 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Tgt Ion: 97 Resp: 9622

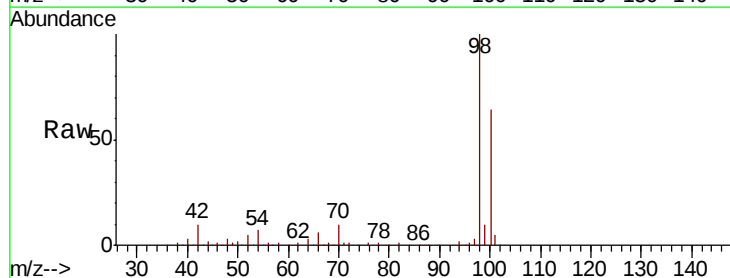
Ion Ratio Lower Upper

97 100

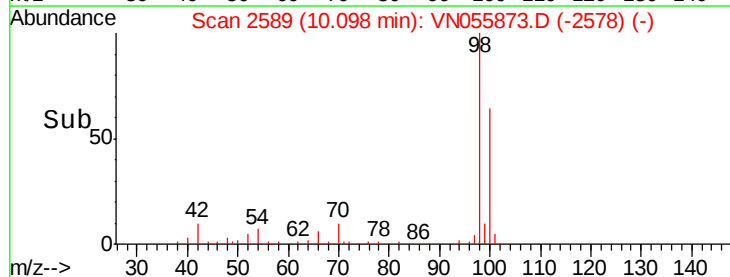
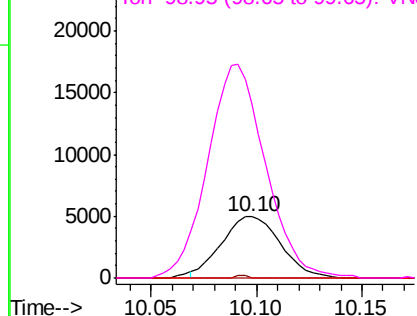
83 0.0 68.9 103.3#

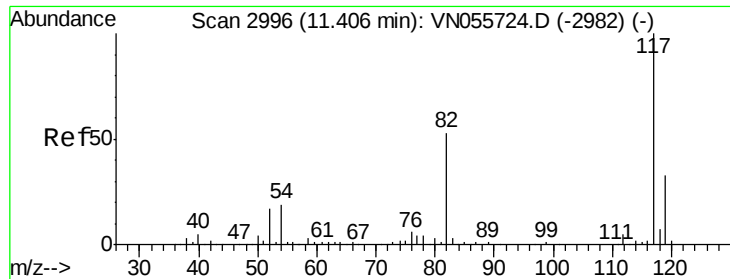
85 0.0 44.3 66.5#

99 279.4 51.4 77.0#



Abundance Ion 97.00 (96.70 to 97.70): VNO
Ion 82.95 (82.65 to 83.65): VNO
Ion 84.95 (84.65 to 85.65): VNO
Ion 98.95 (98.65 to 99.65): VNO

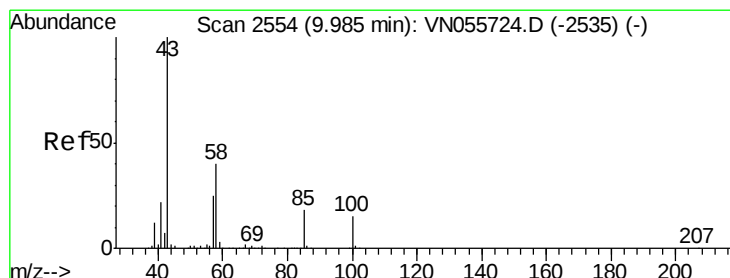
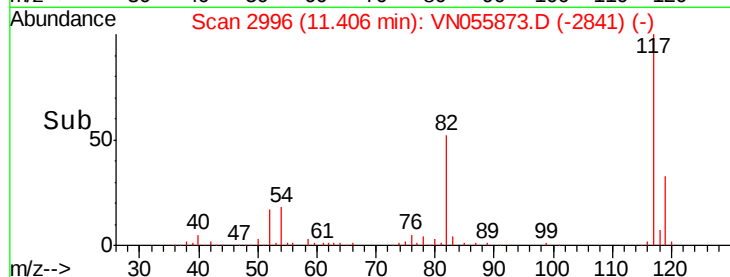
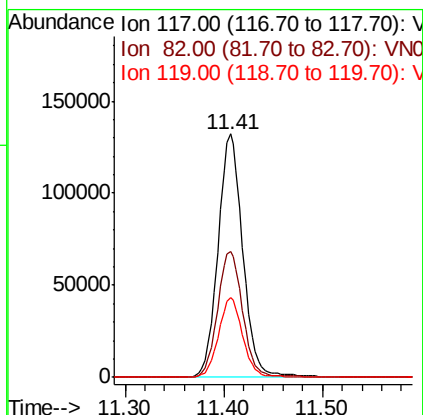
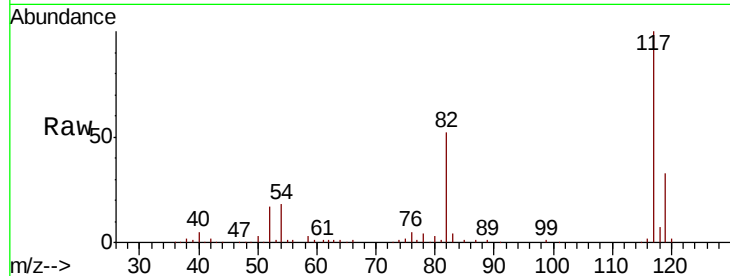




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

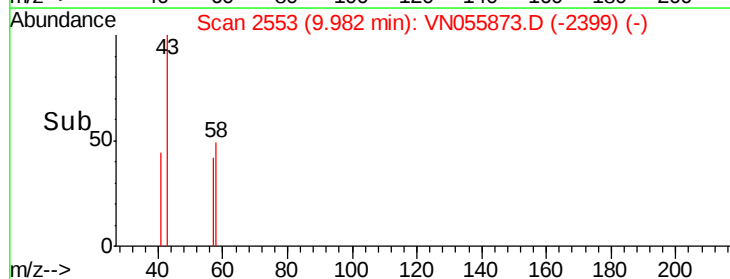
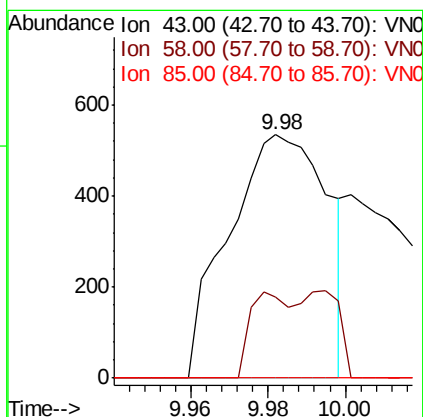
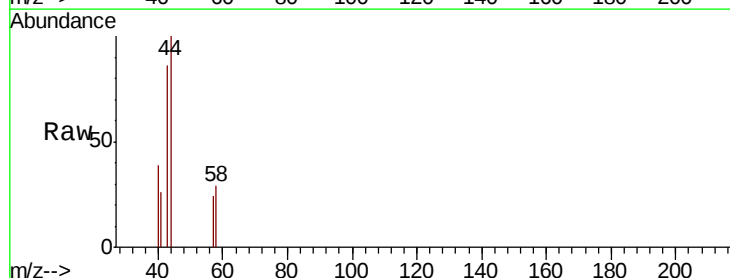
Instrument :
MSVOA_N
ClientSampled :
14B-1

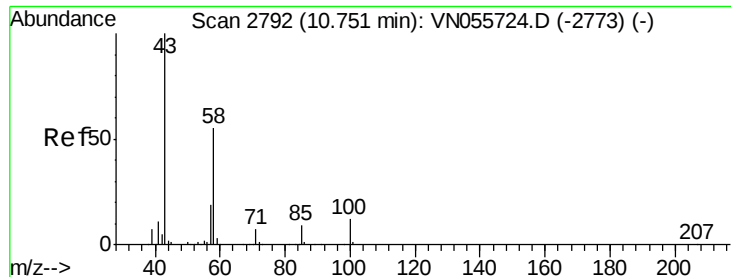
Tot Ion:117 Resp: 233085
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 31.8 25.9 38.9



#58
4-Methyl-2-Pentanone
Concen: 0.246 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

Tgt Ion: 43 Resp: 948
Ion Ratio Lower Upper
43 100
58 13.8 31.7 47.5#
85 0.0 14.5 21.7#

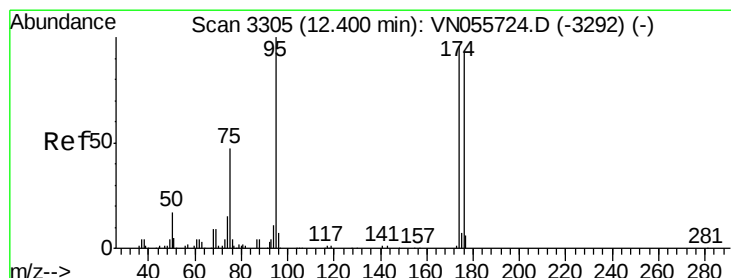
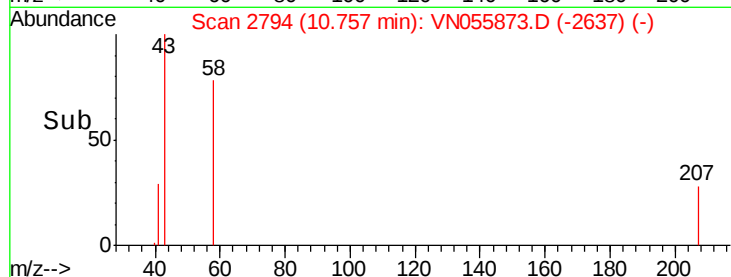
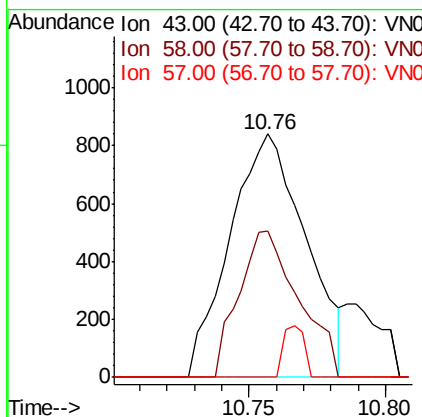
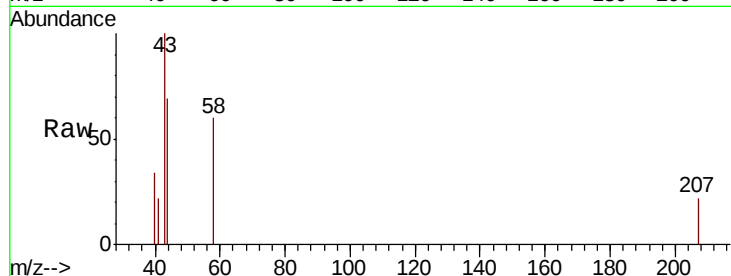




#59
2-Hexanone
Concen: 0.588 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

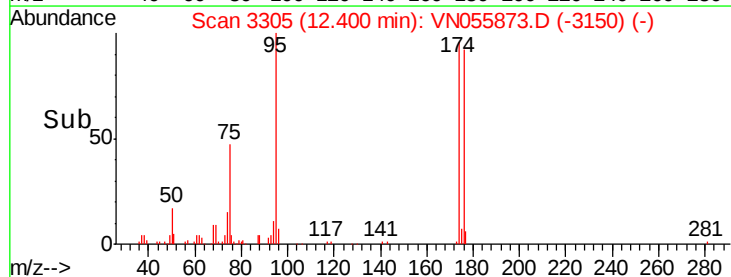
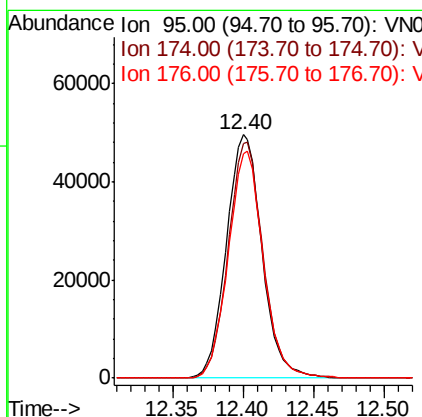
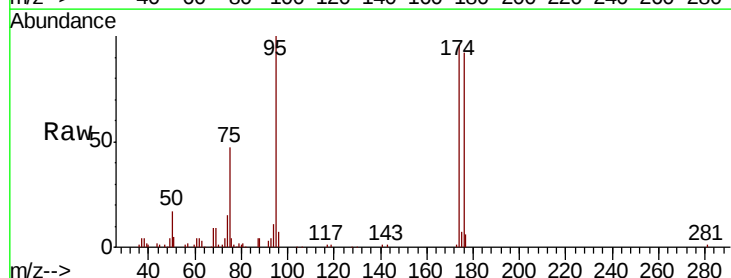
Instrument :
MSVOA_N
ClientSampled :
14B-1

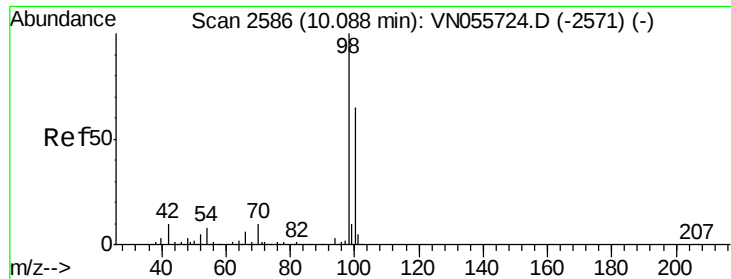
Tot Ion: 43 Resp: 1623
Ion Ratio Lower Upper
43 100
58 47.4 44.8 67.2
57 6.0 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 24.082 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

Tgt Ion: 95 Resp: 87320
Ion Ratio Lower Upper
95 100
174 95.1 75.7 113.5
176 91.9 74.1 111.1





#63

Toluene-d8

Concen: 31.376 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampleId :

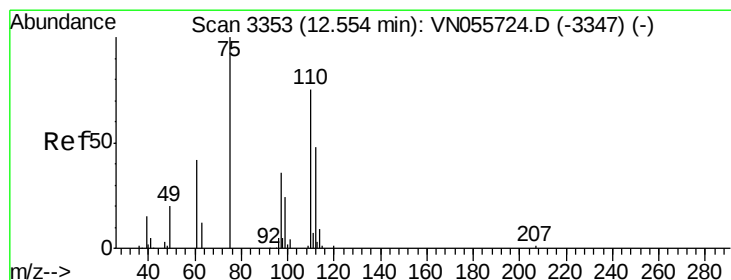
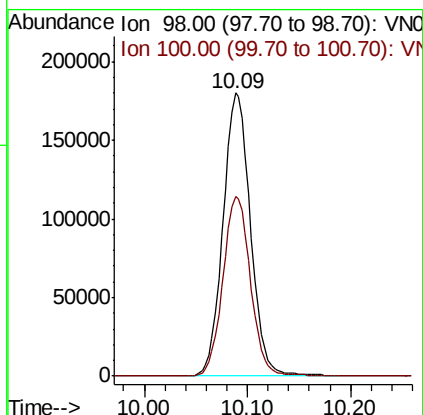
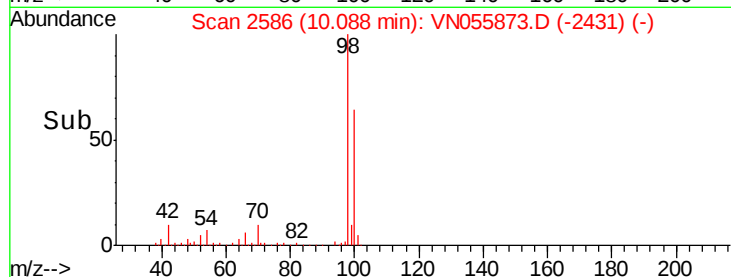
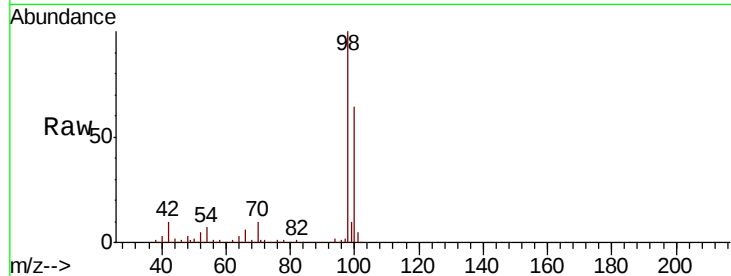
14B-1

Tot Ion: 98 Resp: 334207

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 11.350 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055873.D

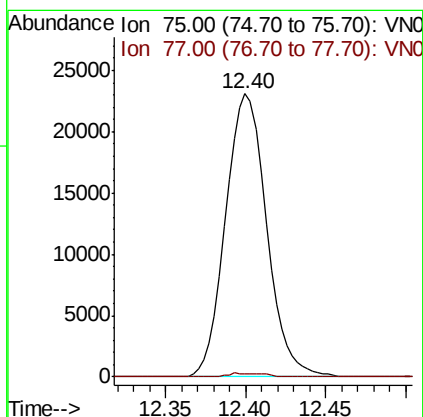
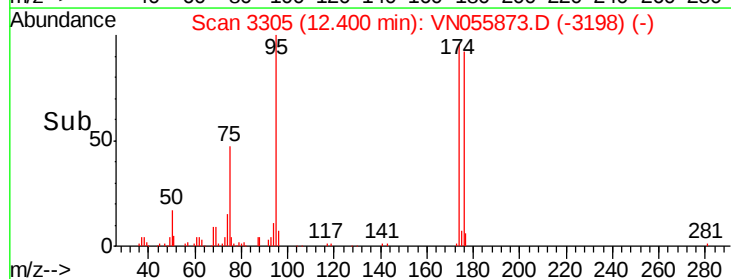
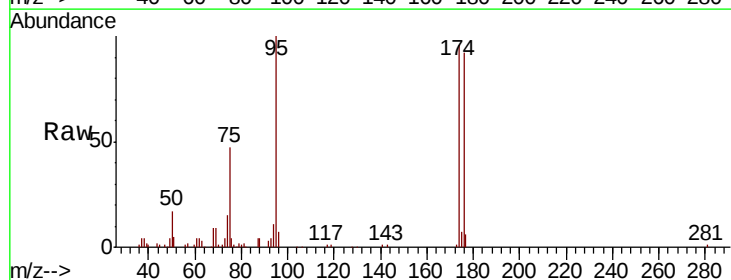
Acq: 29 May 2019 13:18

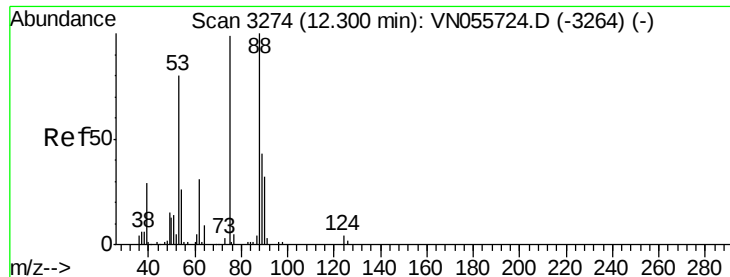
Tgt Ion: 75 Resp: 40494

Ion Ratio Lower Upper

75 100

77 0.7 0.0 349.8

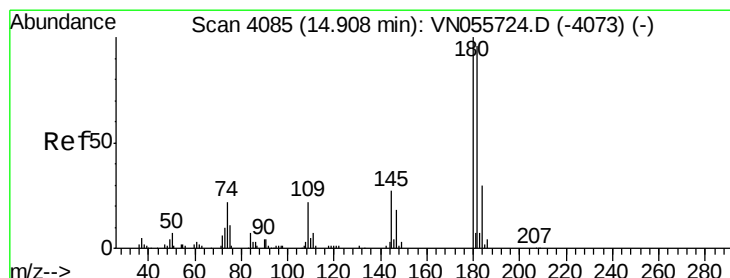
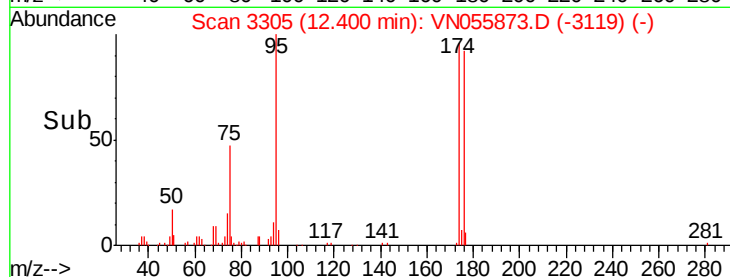
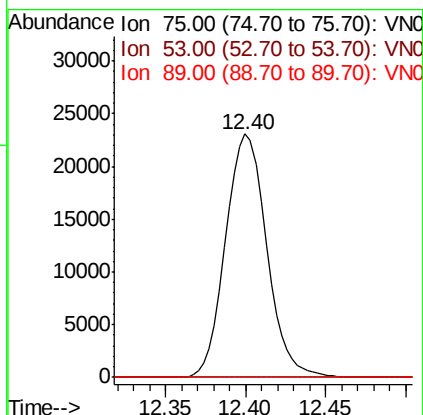
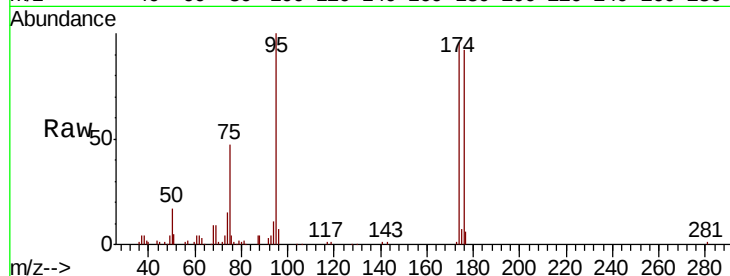




#77
t-1,4-Dichloro-2-butene
Concen: 28.573 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

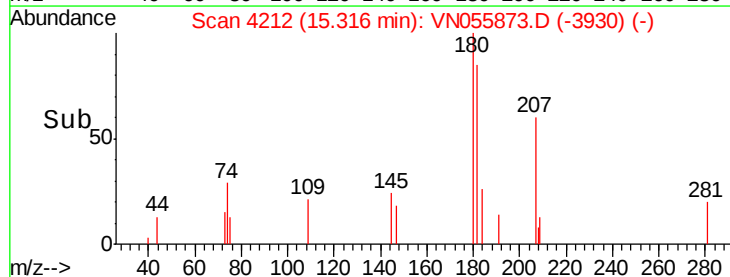
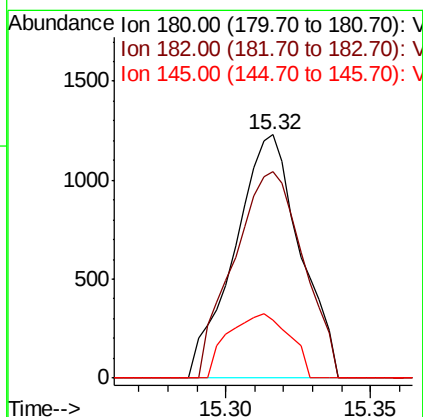
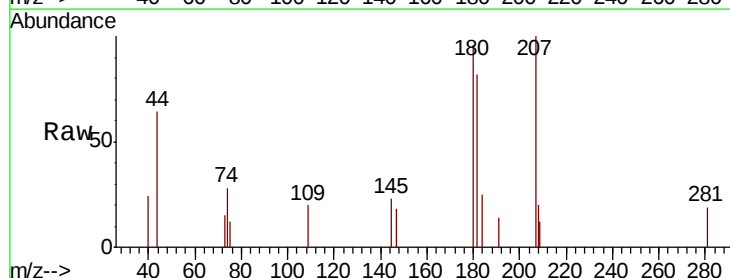
Instrument :
MSVOA_N
ClientSampled :
14B-1

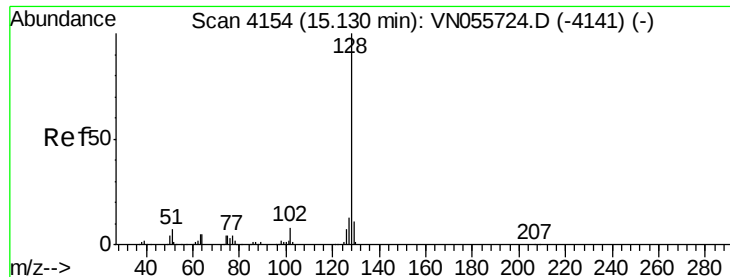
Tot Ion: 75 Resp: 40494
Ion Ratio Lower Upper
75 100
53 0.0 40.1 120.3#
89 0.0 22.6 67.8#



#89
1,2,4-Trichlorobenzene
Concen: 0.635 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.41 min
Lab File: VN055873.D
Acq: 29 May 2019 13:18

Tgt Ion: 180 Resp: 1928
Ion Ratio Lower Upper
180 100
182 90.4 76.1 114.1
145 24.6 21.8 32.8





#91

Naphthalene

Concen: 0.747 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

Instrument :

MSVOA_N

ClientSampled :

14B-1

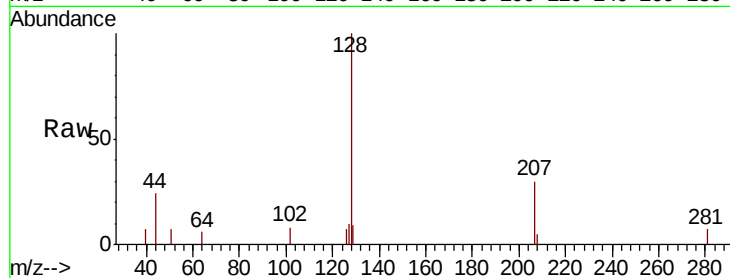
Tot Ion:128 Resp: 6196

Ion Ratio Lower Upper

128 100

127 5.5 10.0 15.0#

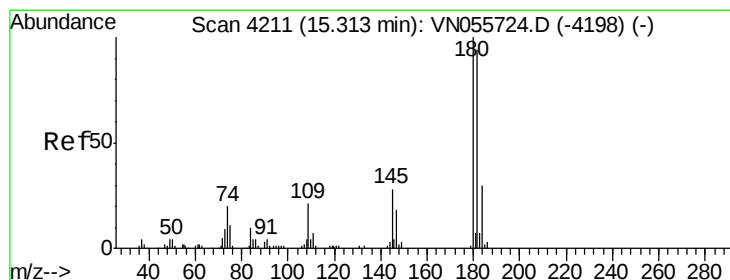
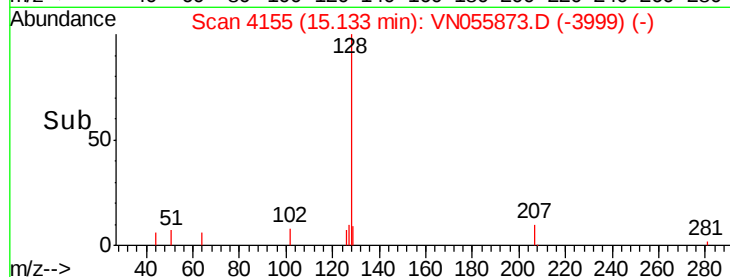
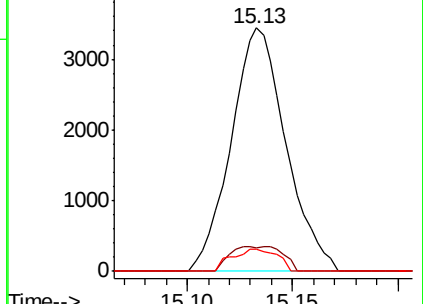
129 7.6 8.7 13.1#



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: 0.608 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055873.D

Acq: 29 May 2019 13:18

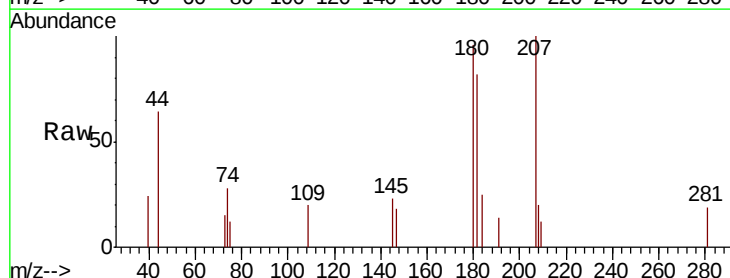
Tgt Ion:180 Resp: 1928

Ion Ratio Lower Upper

180 100

182 90.4 0.0 188.6

145 24.6 0.0 56.8



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

