

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112219\
 Data File : VN059372.D
 Acq On : 22 Nov 2019 17:58
 Operator : JC/SP
 Sample : K5957-10DL 50X
 Misc : 5.69g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(16-18)DL

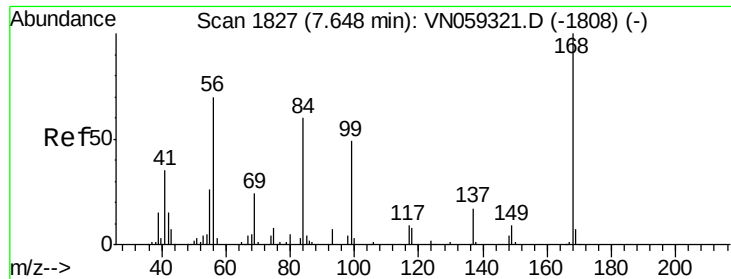
Quant Time: Nov 22 18:18:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	342118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	527270	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	451559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	170577	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	195464	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
35) Dibromofluoromethane	7.57	113	158070	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.08	98	627492	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	200751	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	2013	1.094	ug/l #	86
17) Carbon Disulfide	4.02	76	1344	0.256	ug/l #	75
20) Methylene Chloride	4.53	84	965	0.232	ug/l #	67
29) Tetrahydrofuran	7.20	42	823	0.416	ug/l #	34
31) Cyclohexane	7.64	56	6079	0.841	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	25294	4.647	ug/l #	49
38) Carbon Tetrachloride	7.64	117	30924	5.934	ug/l #	16
51) 4-Methyl-2-Pentanone	10.08	43	2566	0.490	ug/l #	1
71) Bromoform	12.41	173	947	0.355	ug/l #	1
74) N-amyl acetate	12.05	43	1718	0.306	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	97018	24.619	ug/l #	100
78) n-propylbenzene	12.59	91	4238	0.268	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	7416	0.631	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	97018	61.577	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.04	105	18844	1.638	ug/l	99
85) sec-Butylbenzene	13.17	105	3476	0.261	ug/l	81
86) p-Isopropyltoluene	13.29	119	3069	0.259	ug/l	95
89) n-Butylbenzene	13.62	91	2919	0.280	ug/l #	79
92) 1,2-Dibromo-3-Chloropropan	14.28	75	348	0.354	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.92	180	303	3.017	ug/l #	10
95) Naphthalene	15.13	128	1447	3.303	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.30	180	579	2.058	ug/l	61

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

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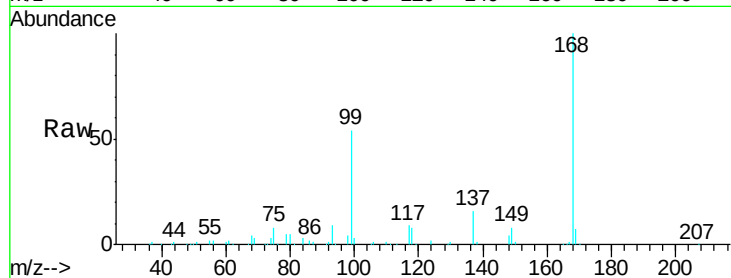
MW-4-(16-18)DL

Tgt Ion:168 Resp: 342118

Ion Ratio Lower Upper

168 100

99 54.2 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): VN059372.D (-1734) (-)

Ion 98.90 (98.60 to 99.60): VN059372.D (-1734) (-)

7.64

150000

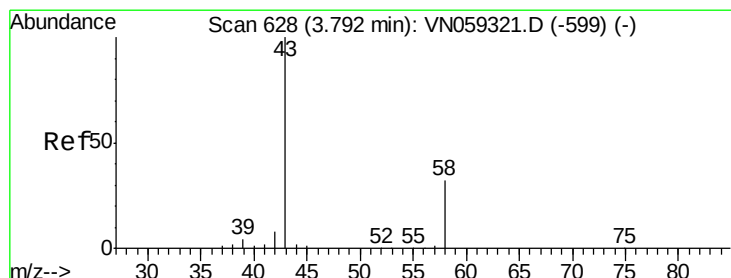
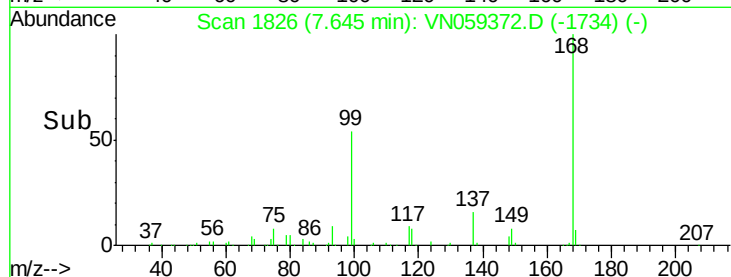
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 1.094 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN059372.D

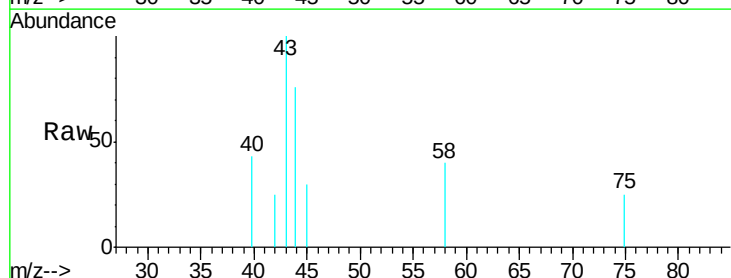
Acq: 22 Nov 2019 17:58

Tgt Ion: 43 Resp: 2013

Ion Ratio Lower Upper

43 100

58 39.8 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VN059372.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN059372.D (-535) (-)

3.80

800

600

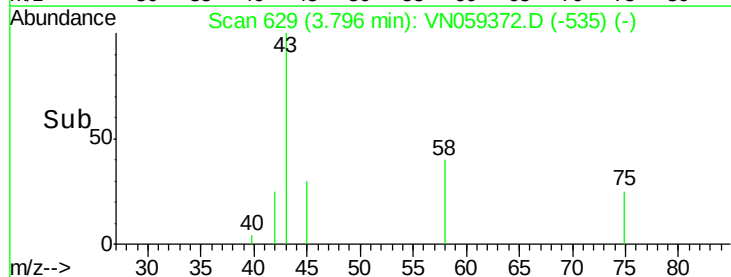
400

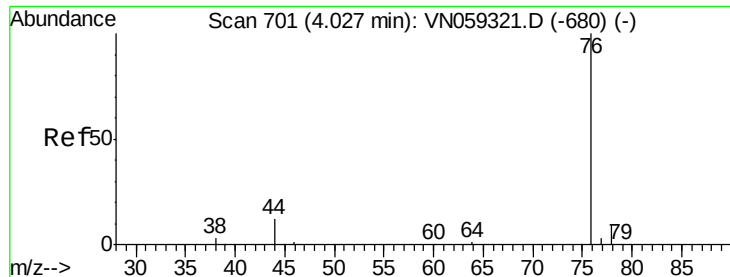
200

0

3.75 3.80 3.85

Time-->

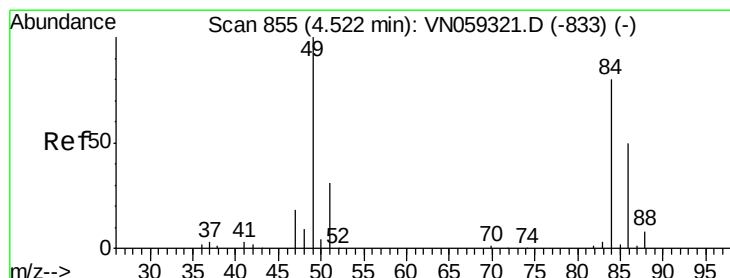
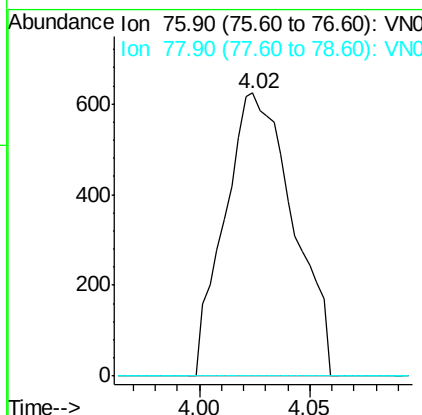
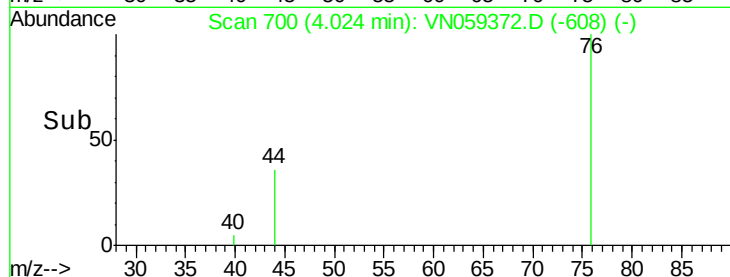
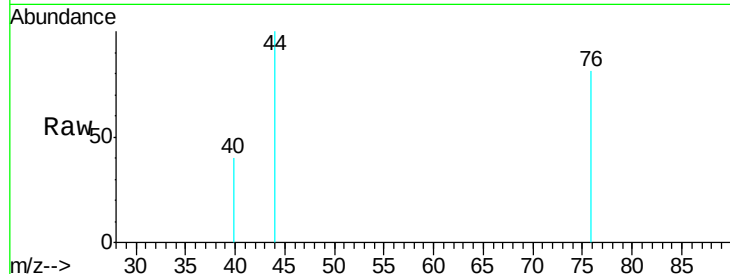




#17
Carbon Disulfide
Concen: 0.256 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

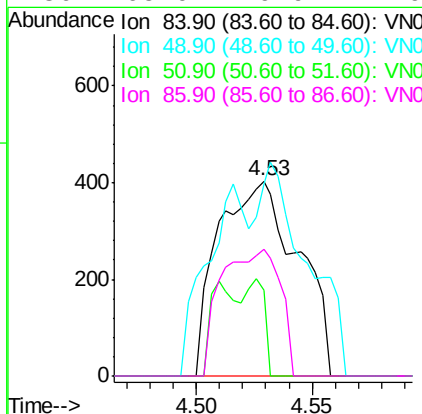
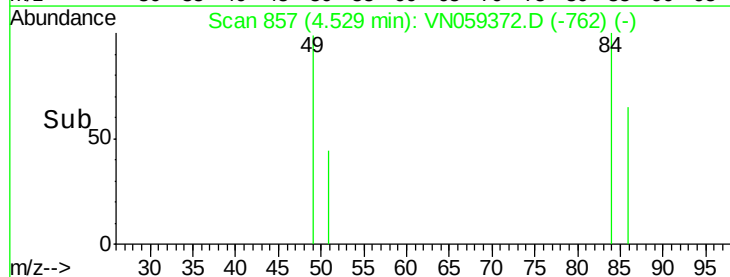
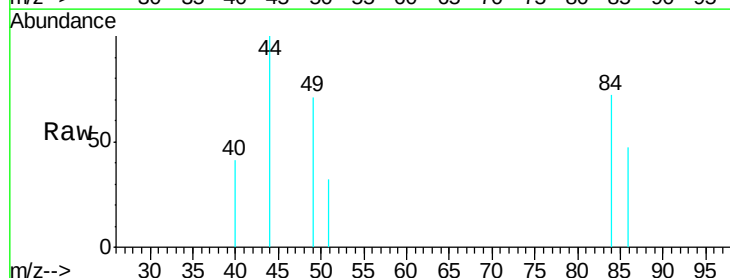
Instrument :
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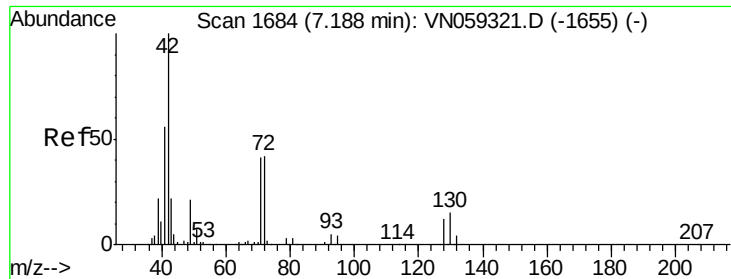
Tgt Ion: 76 Resp: 1344
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: 0.232 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

Tgt Ion: 84 Resp: 965
Ion Ratio Lower Upper
84 100
49 60.3 99.5 149.3#
51 43.9 31.1 46.7
86 65.0 49.9 74.9

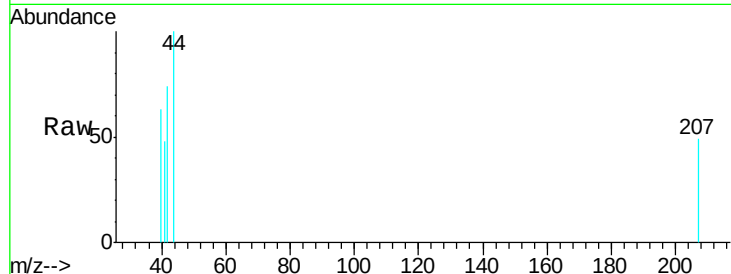




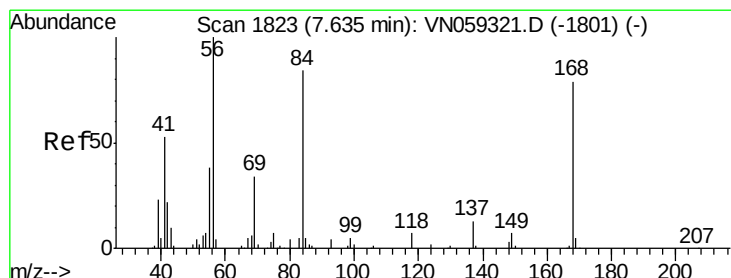
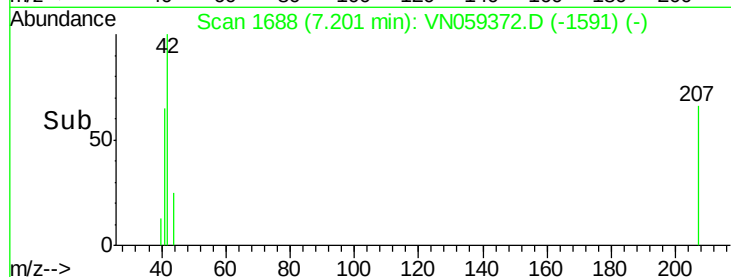
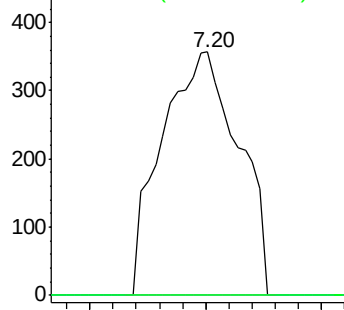
#29
Tetrahydrofuran
Concen: 0.416 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(16-18)DL

Tgt Ion: 42 Resp: 823
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.6 48.8#

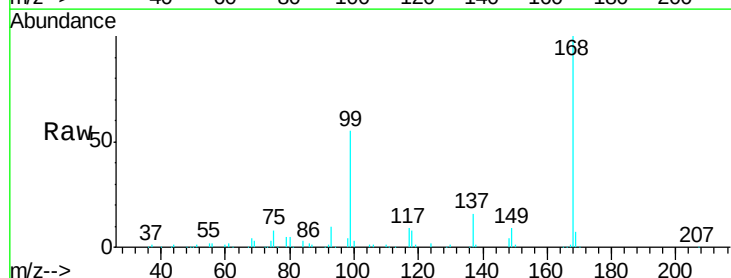


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

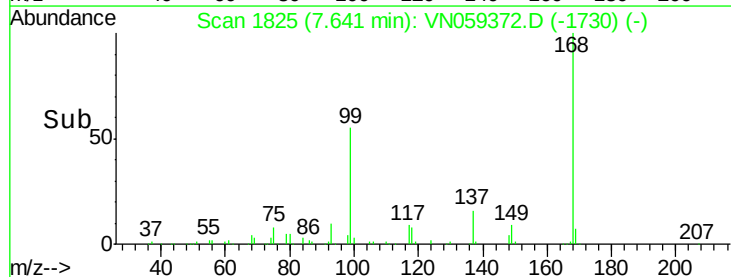
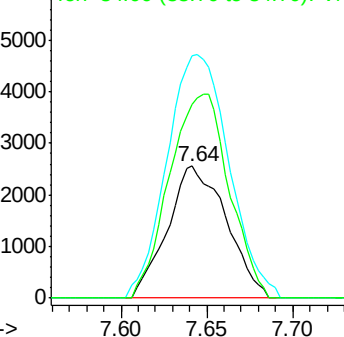


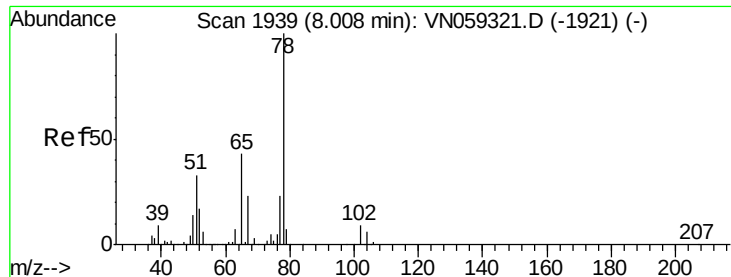
#31
Cyclohexane
Concen: 0.841 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

Tgt Ion: 56 Resp: 6079
Ion Ratio Lower Upper
56 100
69 183.0 26.6 40.0#
84 146.8 67.0 100.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

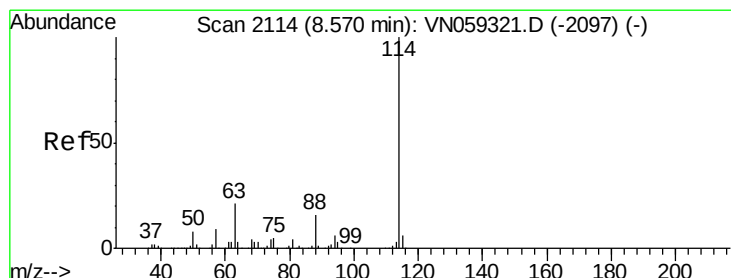
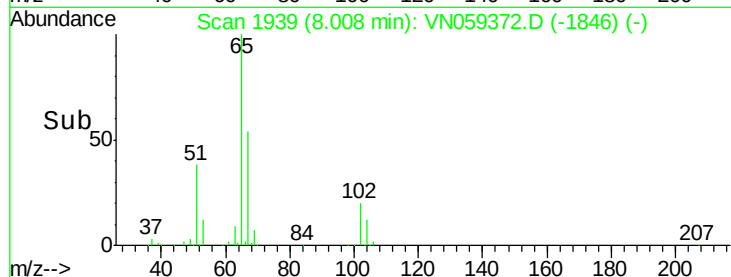
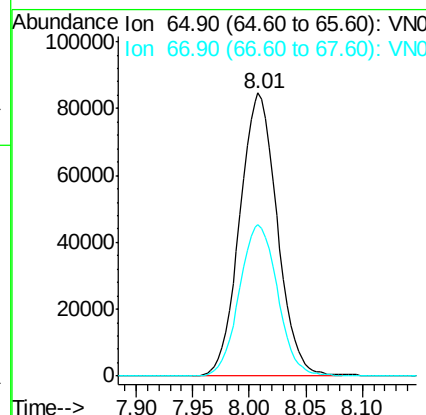
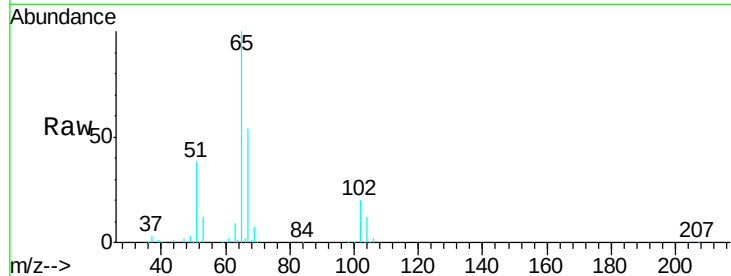




#33
 1,2-Dichloroethane-d4
 Concen: 47.618 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

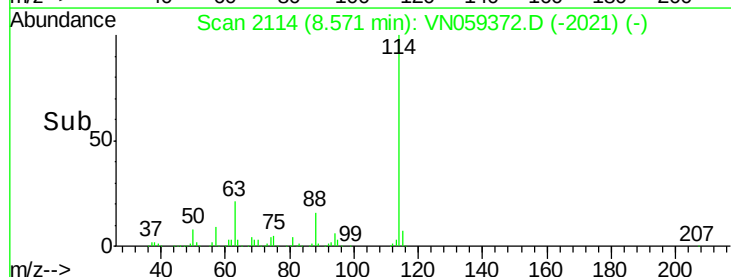
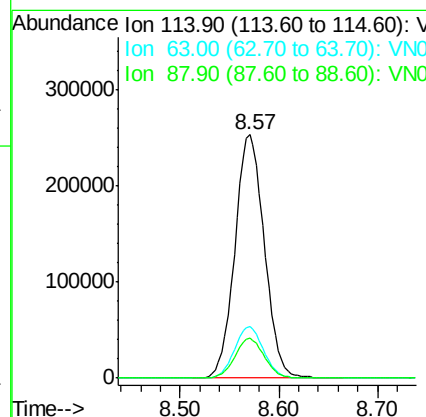
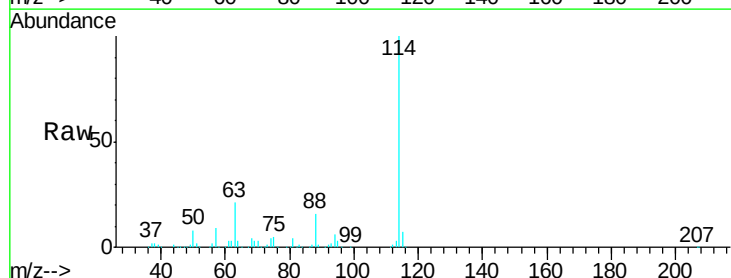
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(16-18)DL

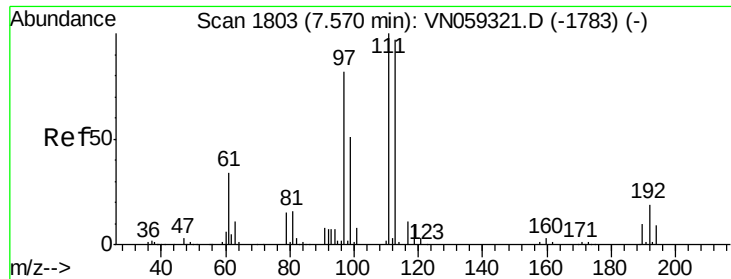
Tgt Ion: 65 Resp: 195464
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion: 114 Resp: 527270
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.2
 88 16.2 0.0 32.2

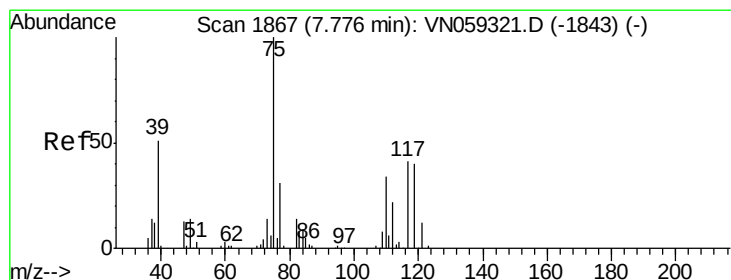
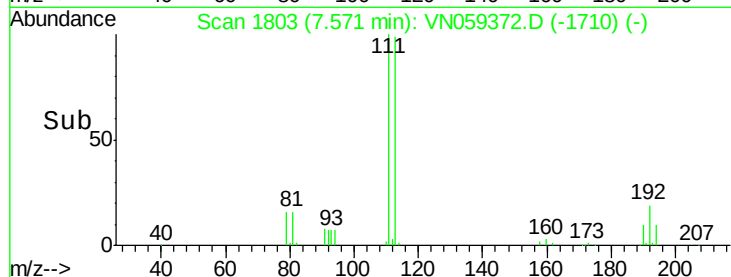
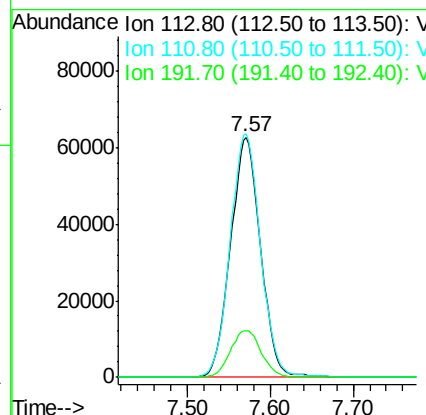
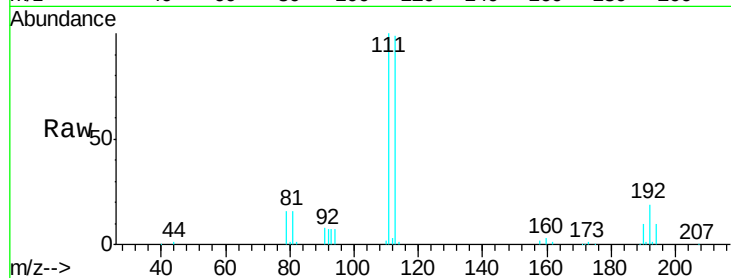




#35
 Dibromofluoromethane
 Concen: 49.970 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

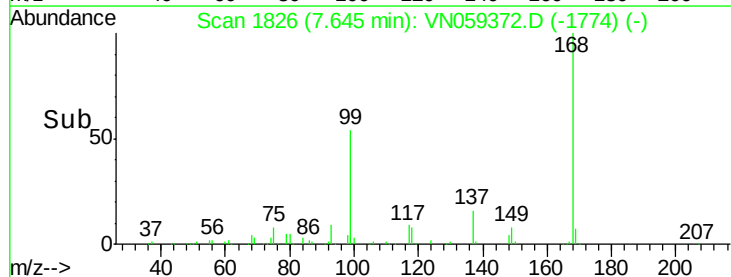
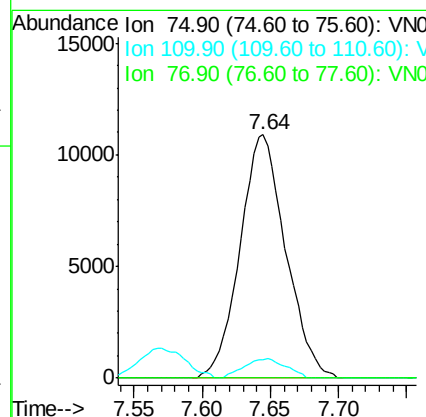
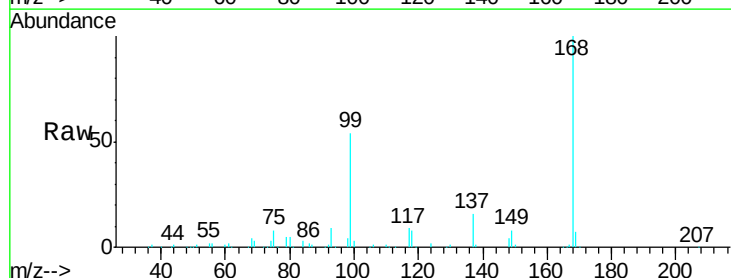
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(16-18)DL

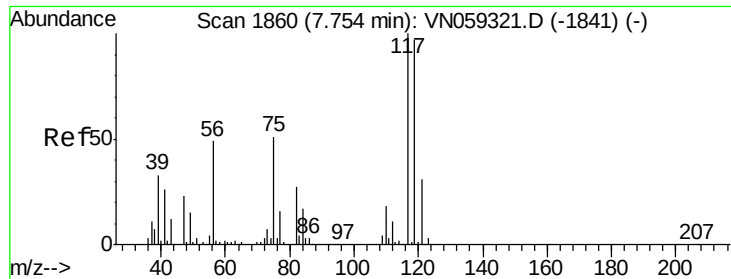
Tgt Ion:113 Resp: 158070
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.7 124.1
 192 20.1 16.3 24.5



#36
 1,1-Dichloropropene
 Concen: 4.647 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion: 75 Resp: 25294
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.0 51.0#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 5.934 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(16-18)DL

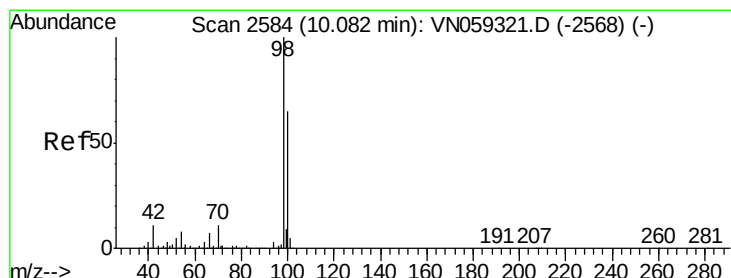
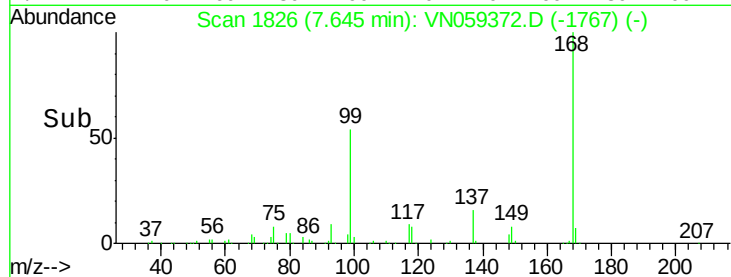
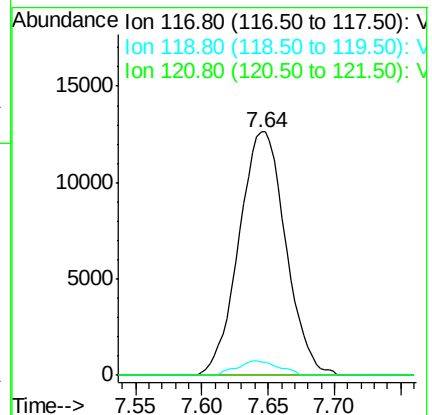
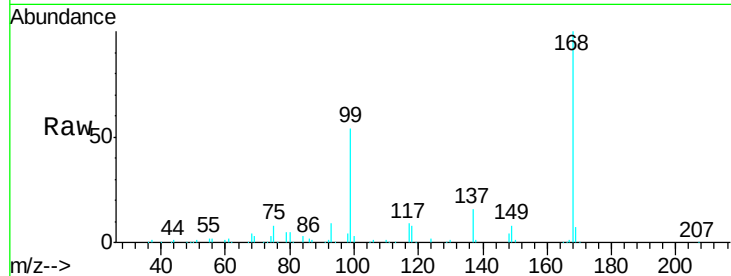
Tgt Ion:117 Resp: 30924

Ion Ratio Lower Upper

117 100

119 5.6 77.0 115.4#

121 0.0 24.4 36.6#



#50

Toluene-d8

Concen: 49.898 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059372.D

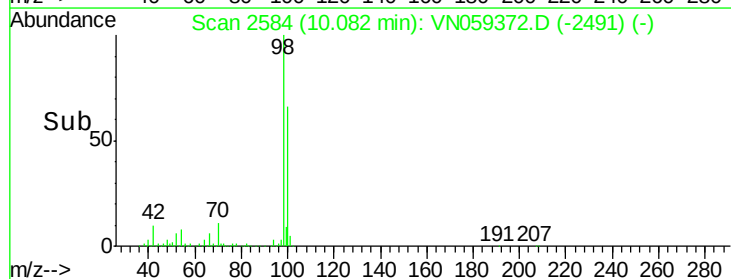
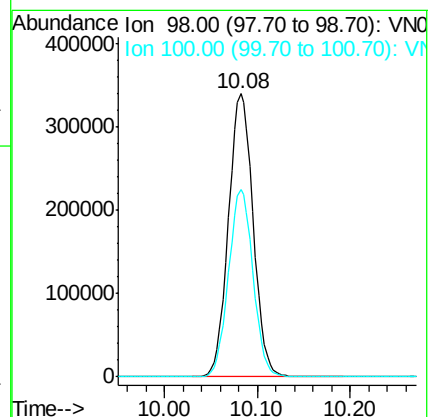
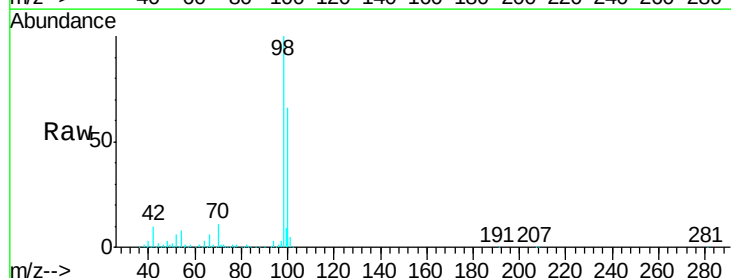
Acq: 22 Nov 2019 17:58

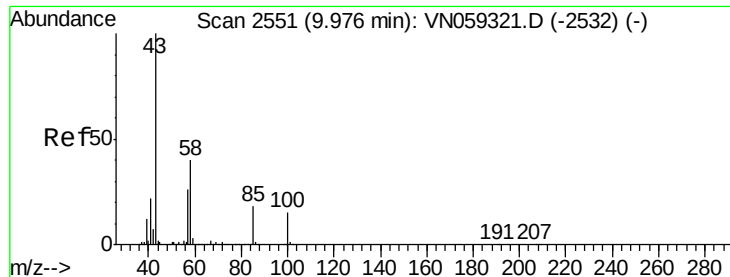
Tgt Ion: 98 Resp: 627492

Ion Ratio Lower Upper

98 100

100 65.6 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.490 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.11 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

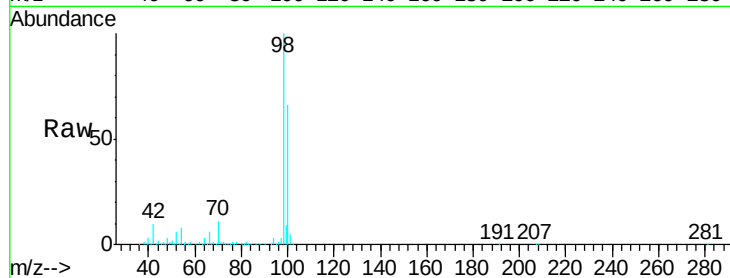
MW-4-(16-18)DL

Tgt Ion: 43 Resp: 2566

Ion Ratio Lower Upper

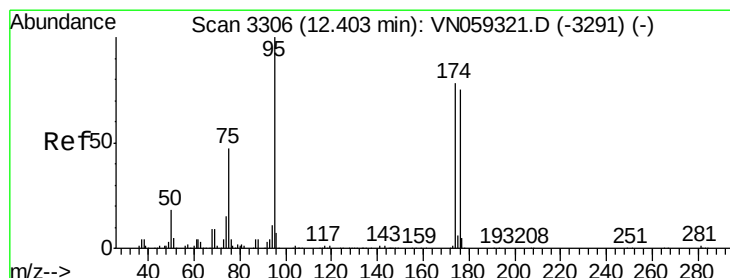
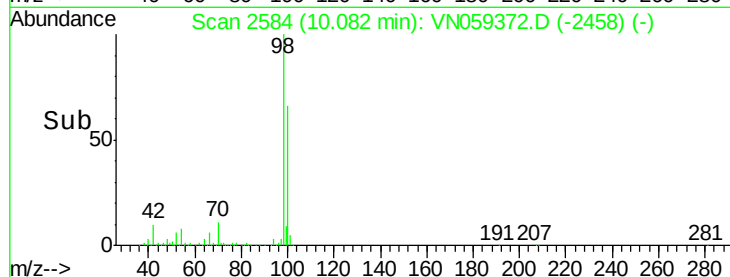
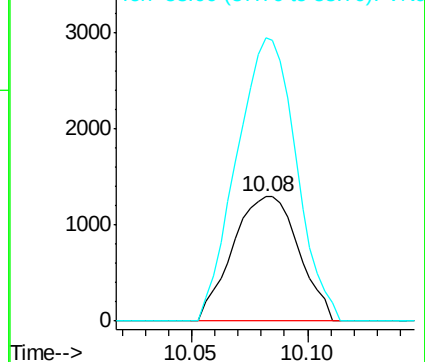
43 100

58 205.3 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059372.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN059372.D (-2532) (-)



#62

4-Bromofluorobenzene

Concen: 45.655 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

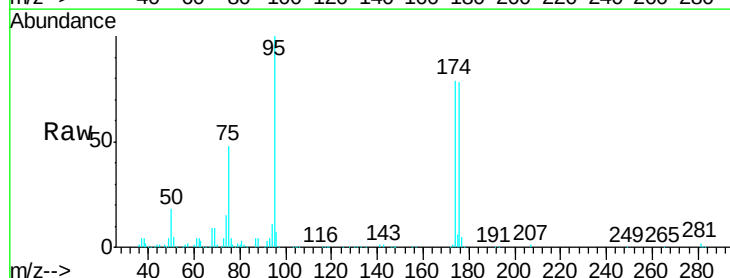
Tgt Ion: 95 Resp: 200751

Ion Ratio Lower Upper

95 100

174 78.6 0.0 157.4

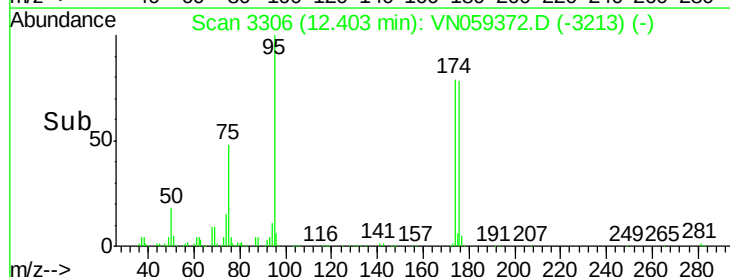
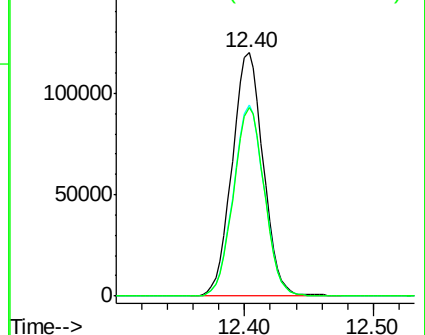
176 77.4 0.0 151.2

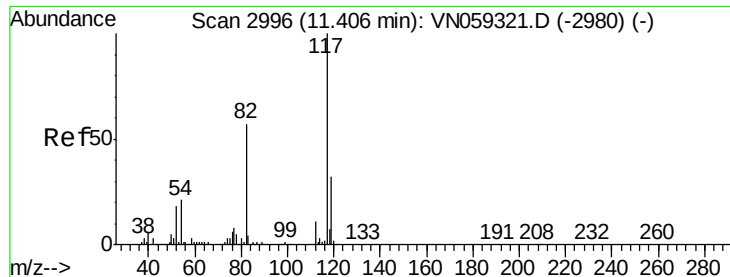


Abundance Ion 94.90 (94.60 to 95.60): VN059372.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059372.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059372.D (-3291) (-)

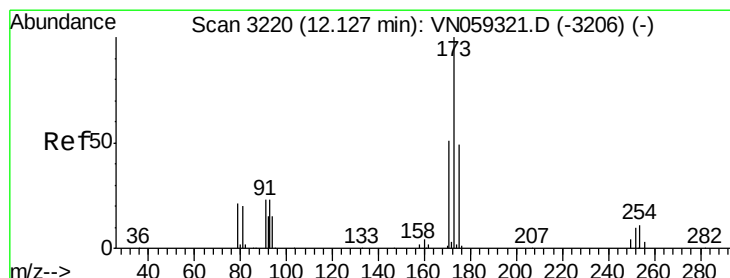
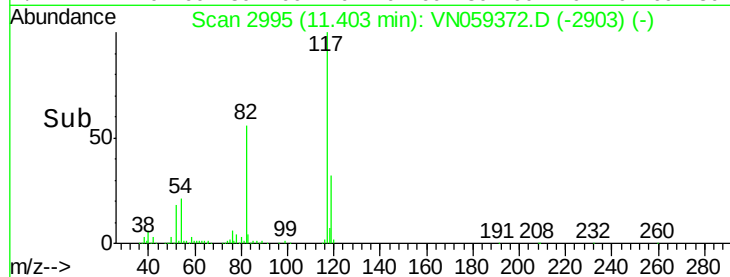
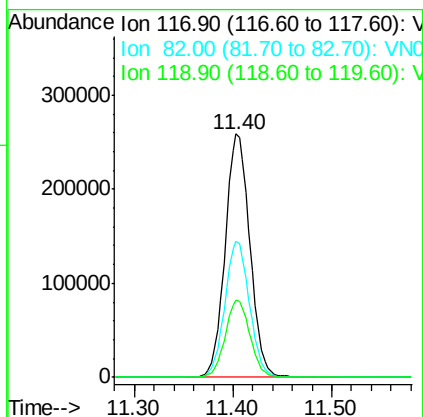
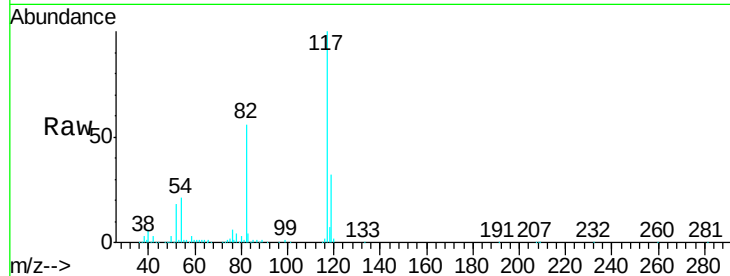




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

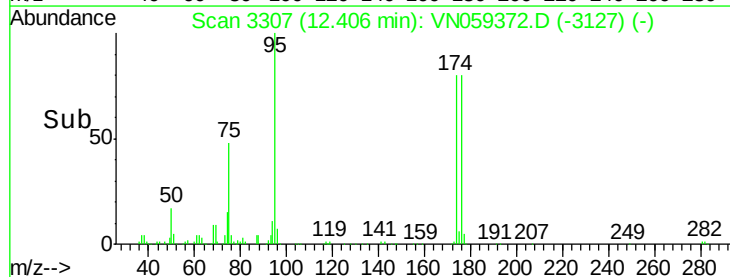
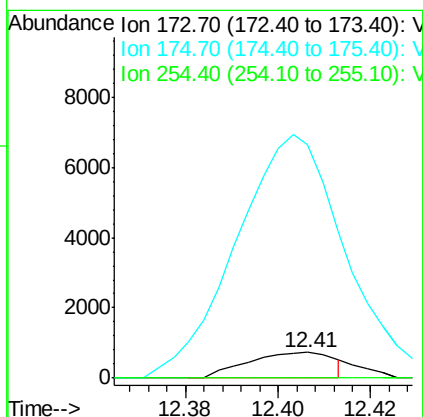
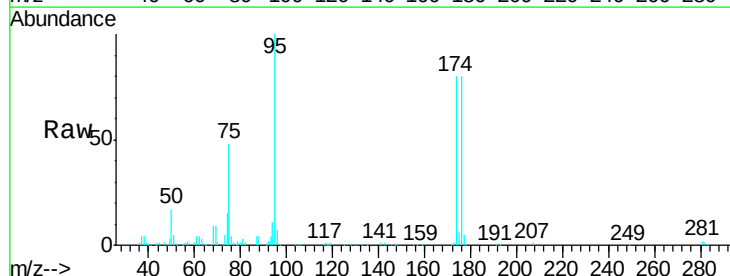
Instrument :
MSVOA_N
ClientSampled :
MW-4-(16-18)DL

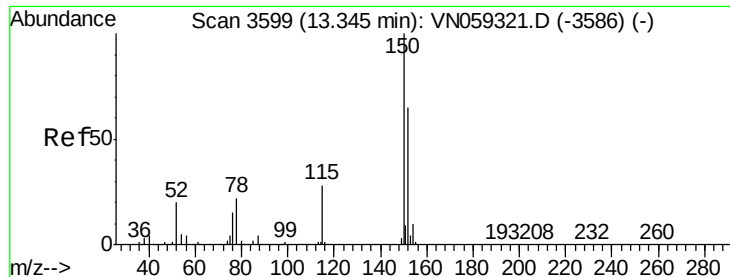
Tgt Ion:117 Resp: 451559
Ion Ratio Lower Upper
117 100
82 56.1 45.7 68.5
119 31.9 25.8 38.6



#71
Bromoform
Concen: 0.355 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN059372.D
Acq: 22 Nov 2019 17:58

Tgt Ion:173 Resp: 947
Ion Ratio Lower Upper
173 100
175 1026.7 24.6 73.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(16-18)DL

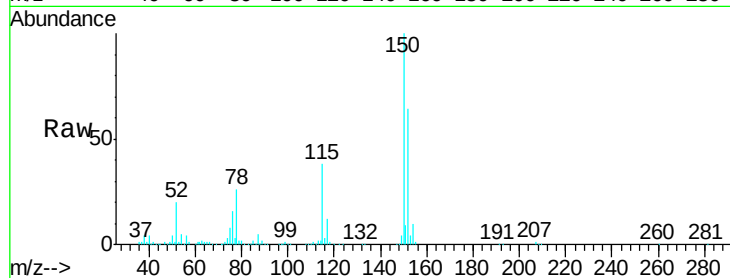
Tgt Ion: 152 Resp: 170577

Ion Ratio Lower Upper

152 100

115 59.3 29.3 88.0

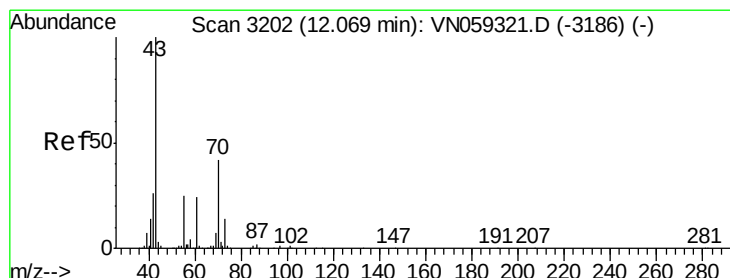
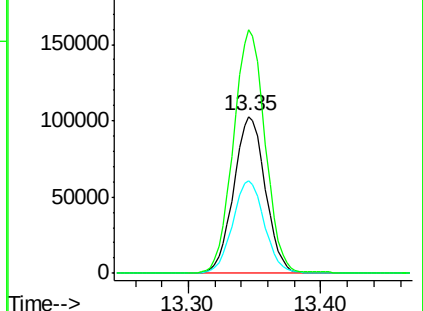
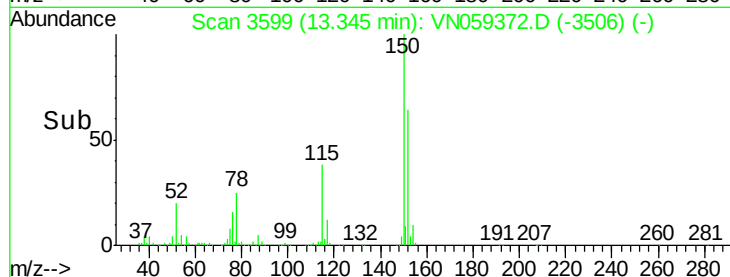
150 155.8 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-amyl acetate

Concen: 0.306 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Tgt Ion: 43 Resp: 1718

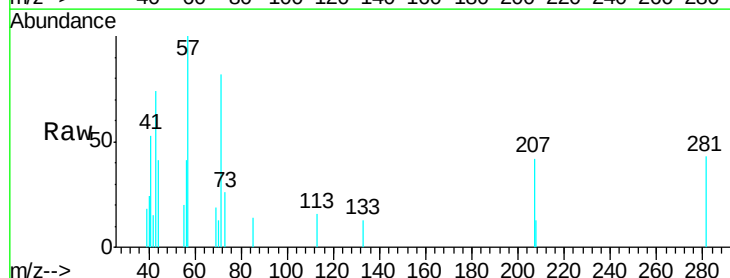
Ion Ratio Lower Upper

43 100

70 3.4 33.8 50.6#

55 0.0 20.3 30.5#

61 0.0 19.9 29.9#

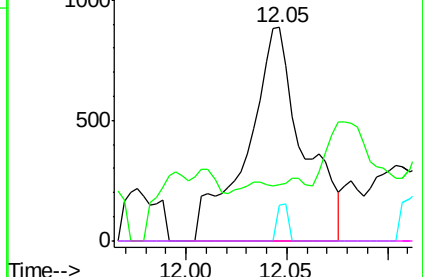
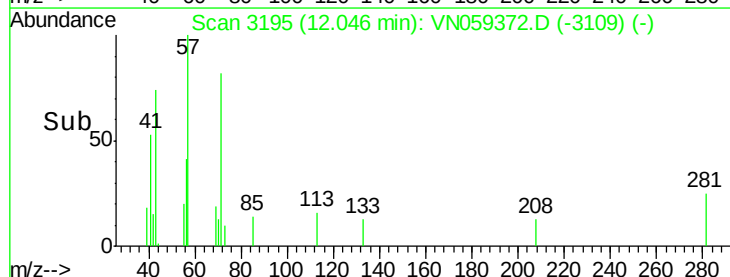


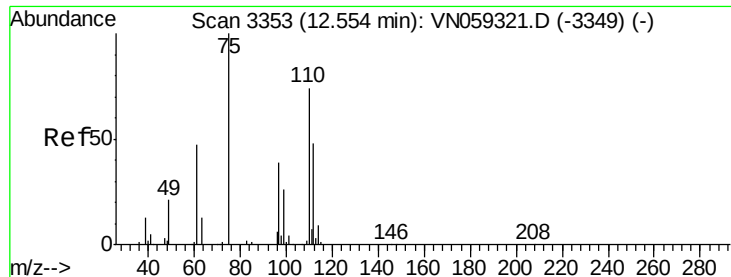
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.619 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

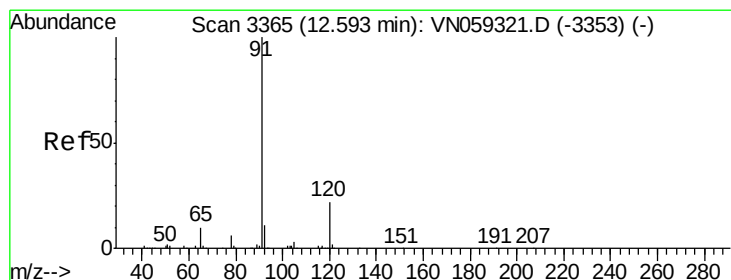
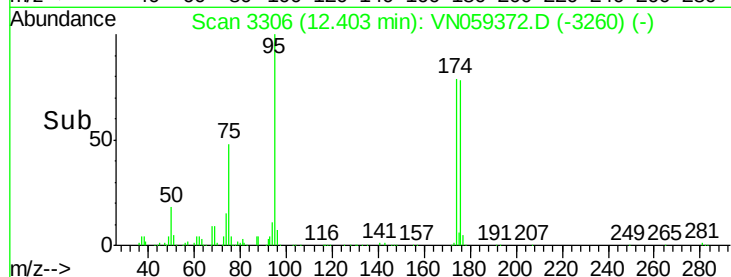
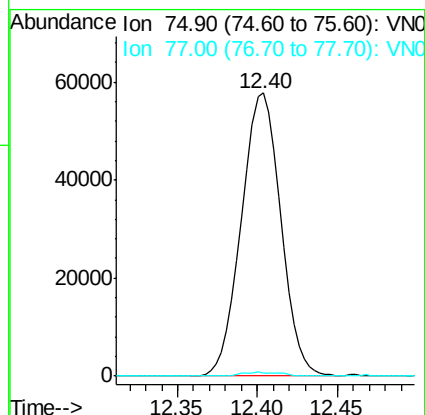
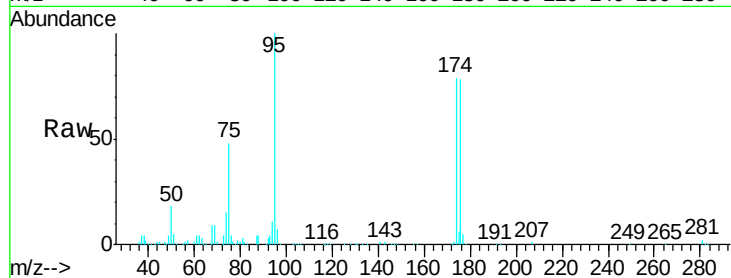
MW-4-(16-18)DL

Tgt Ion: 75 Resp: 97018

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#78

n-propylbenzene

Concen: 0.268 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059372.D

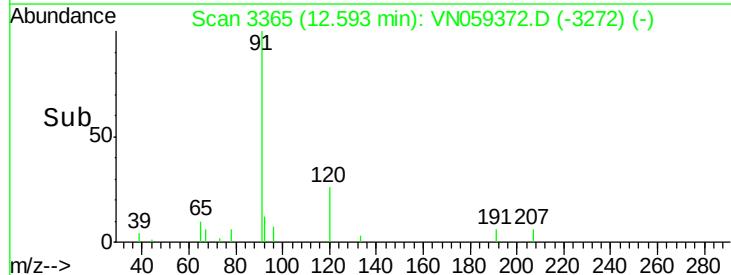
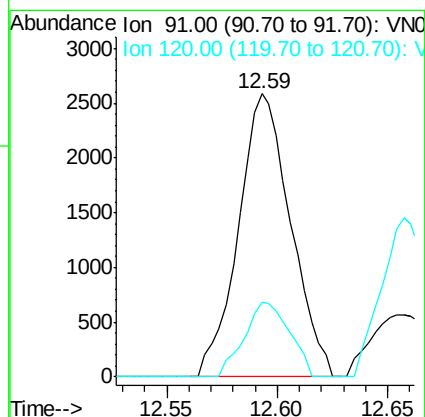
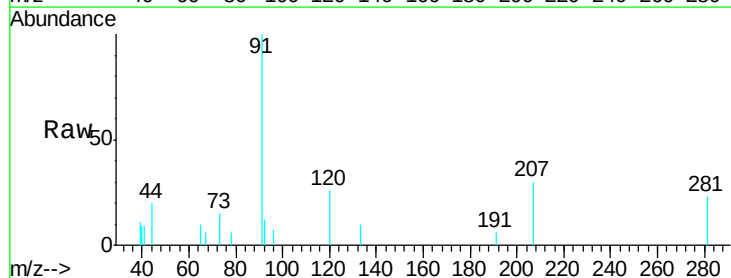
Acq: 22 Nov 2019 17:58

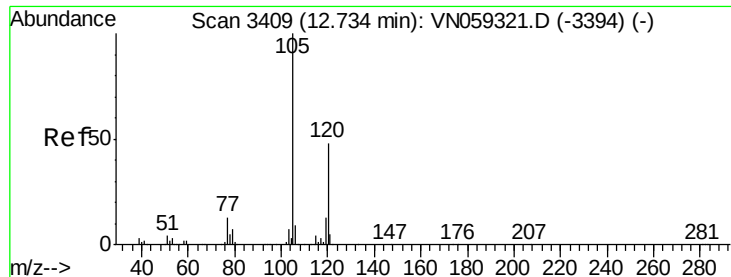
Tgt Ion: 91 Resp: 4238

Ion Ratio Lower Upper

91 100

120 22.8 11.3 33.9

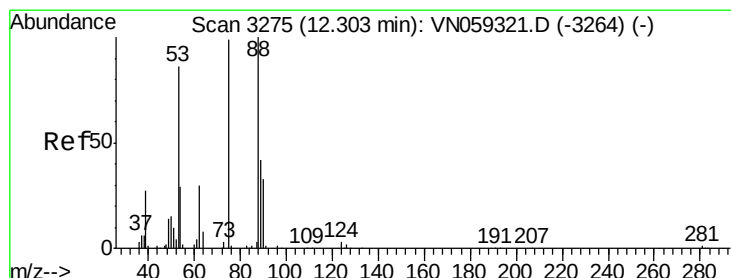
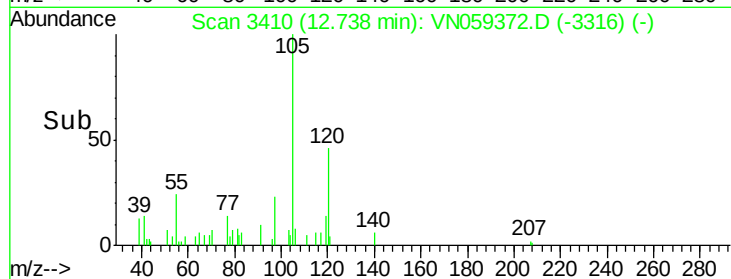
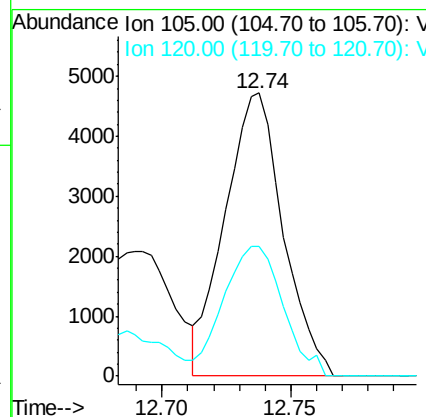
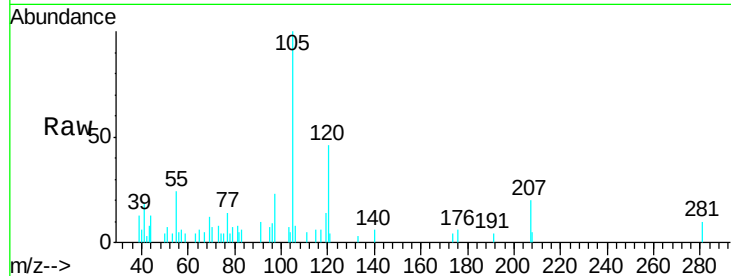




#80
 1,3,5-Trimethylbenzene
 Concen: 0.631 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

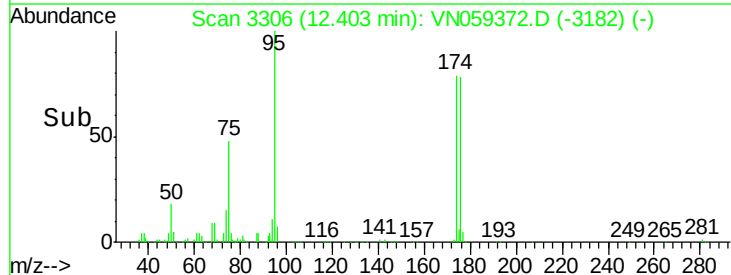
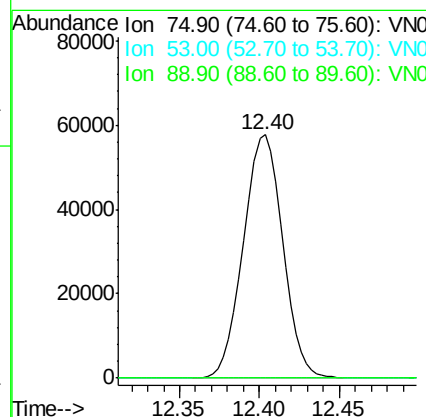
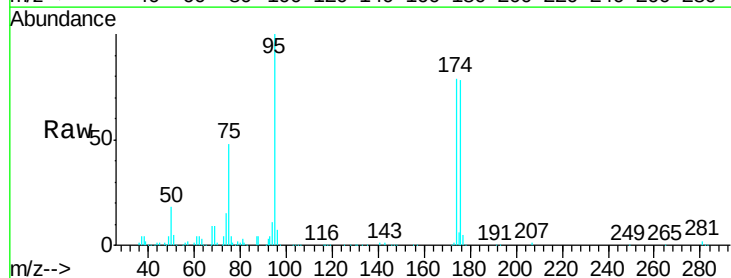
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4-(16-18)DL

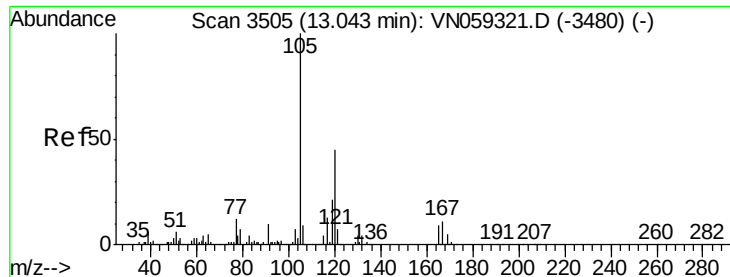
Tgt Ion: 105 Resp: 7416
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.577 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion: 75 Resp: 97018
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.7 106.1#
 89 0.0 35.4 53.0#

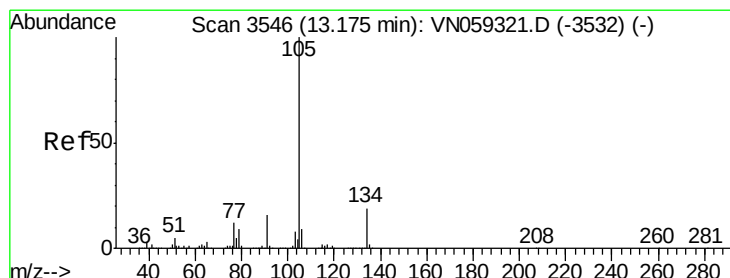
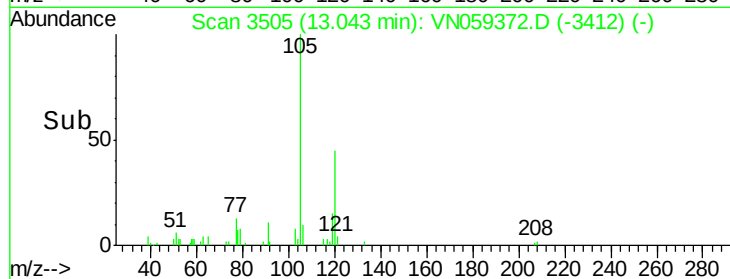
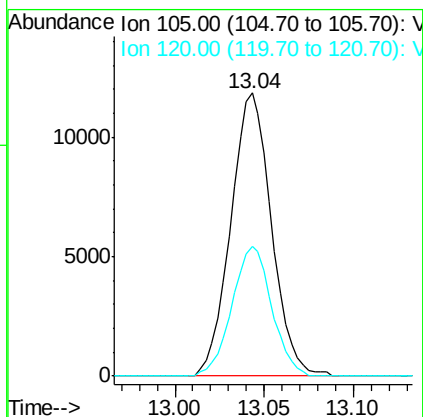
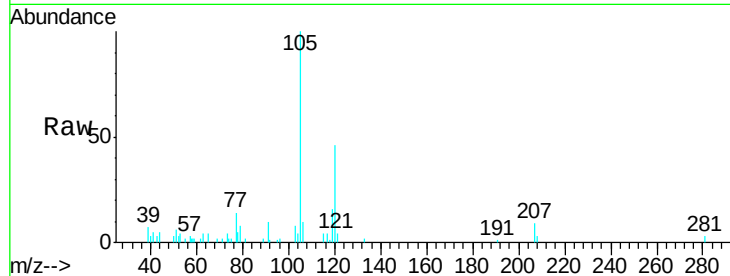




#84
 1,2,4-Trimethylbenzene
 Concen: 1.638 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

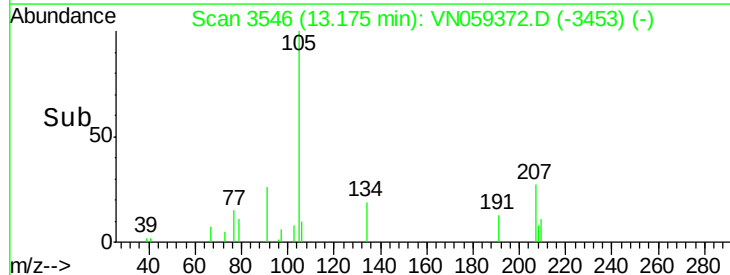
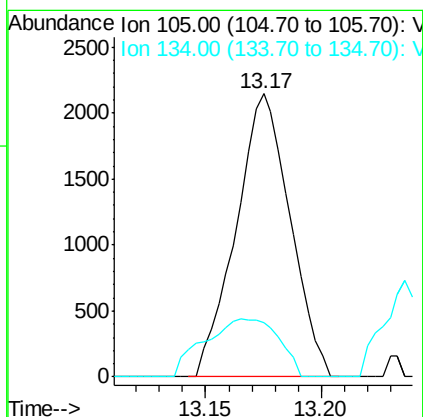
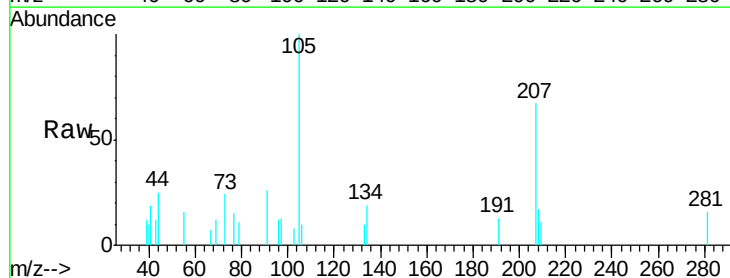
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4-(16-18)DL

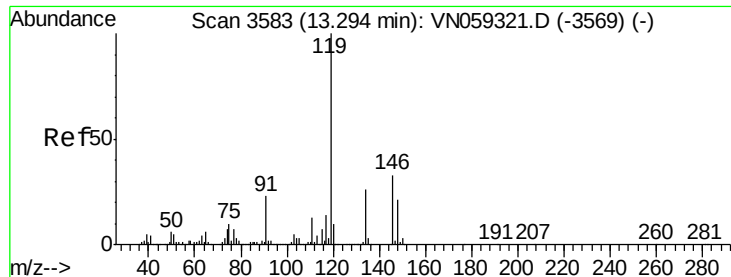
Tgt Ion:105 Resp: 18844
 Ion Ratio Lower Upper
 105 100
 120 44.7 22.6 67.8



#85
 sec-Butylbenzene
 Concen: 0.261 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion:105 Resp: 3476
 Ion Ratio Lower Upper
 105 100
 134 28.0 9.8 29.3

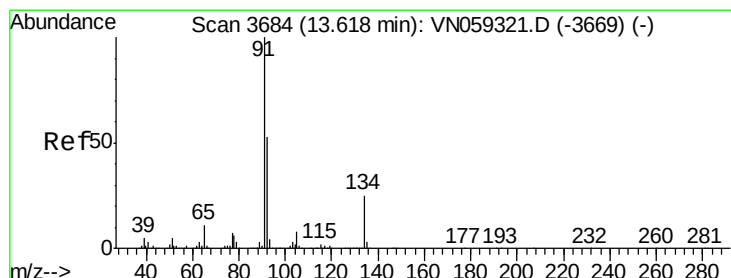
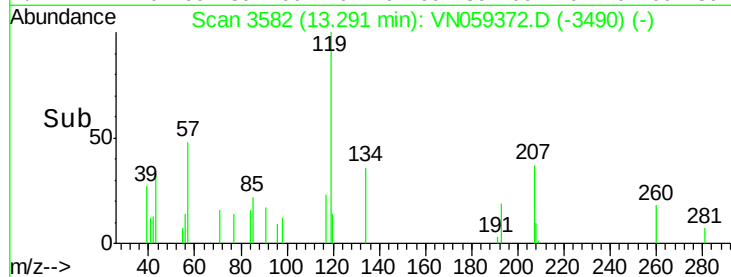
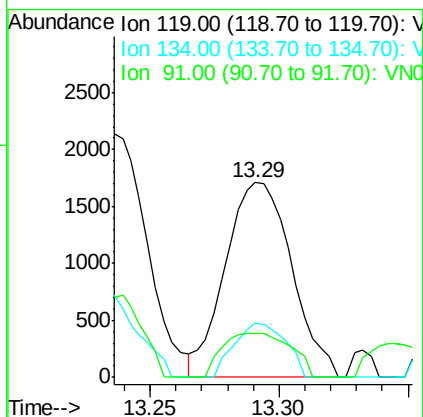
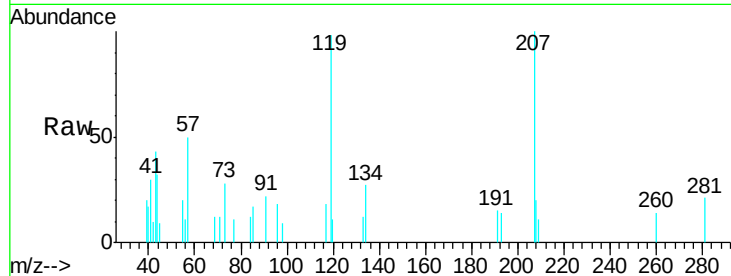




#86
 p-Isopropyltoluene
 Concen: 0.259 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

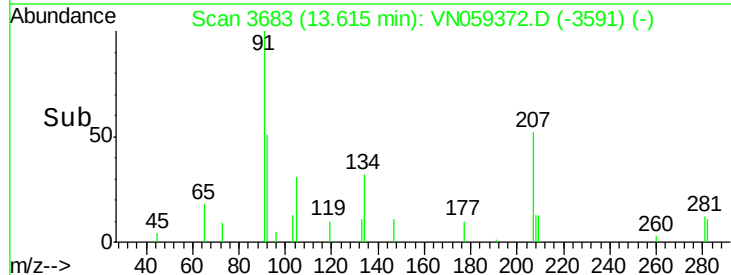
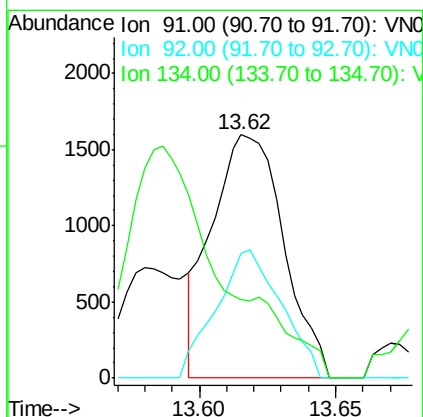
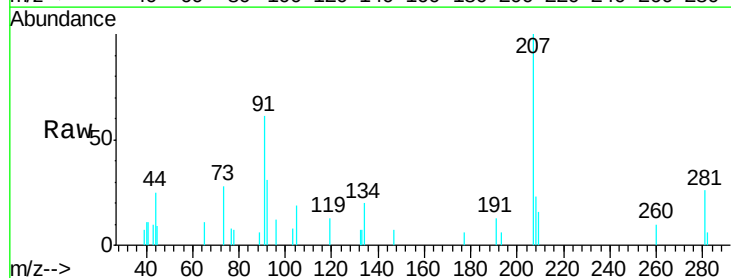
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(16-18)DL

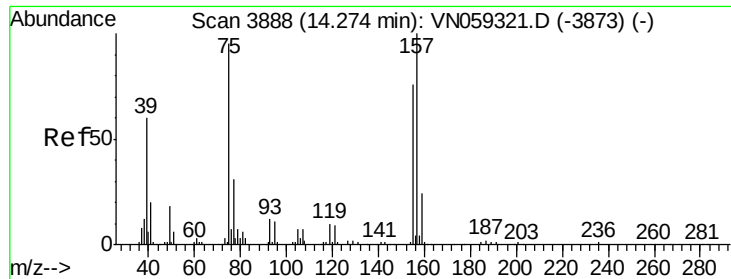
Tgt Ion:	119	Resp:	3069
Ion	Ratio	Lower	Upper
119	100		
134	21.4	13.0	38.9
91	23.2	11.6	34.7



#89
 n-Butylbenzene
 Concen: 0.280 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. -0.00 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion:	91	Resp:	2919
Ion	Ratio	Lower	Upper
91	100		
92	47.8	26.0	78.0
134	0.0	12.7	38.1#

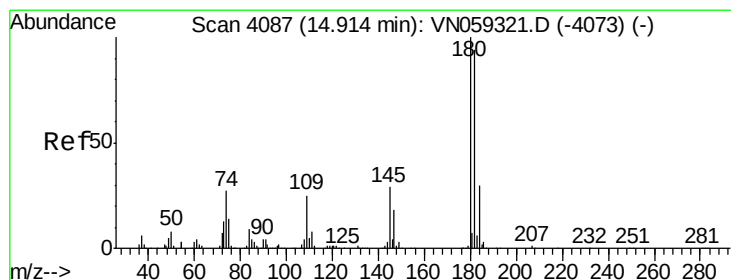
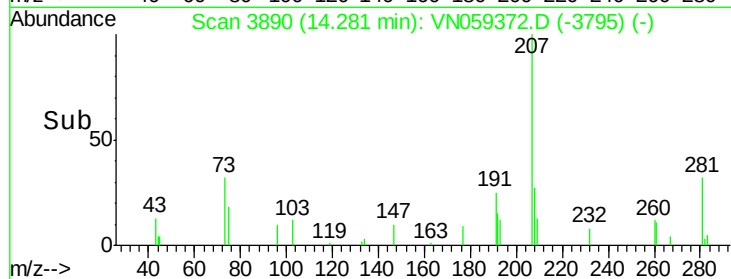
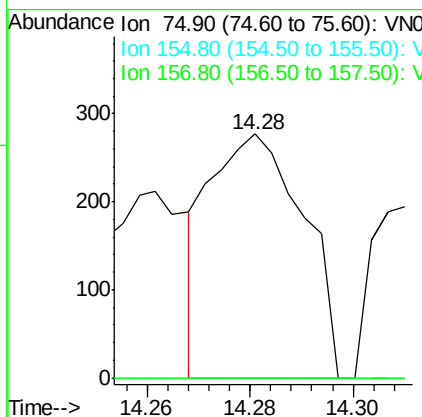
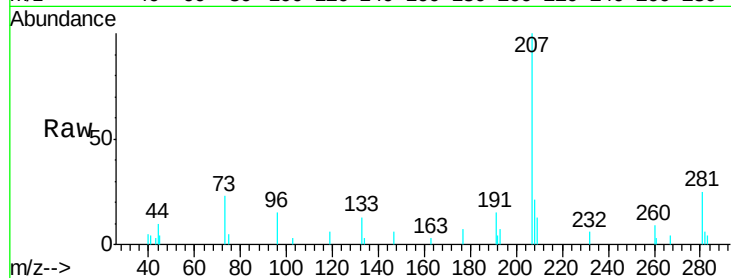




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.354 ug/l
 RT: 14.28 min Scan# 3890
 Delta R.T. 0.01 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

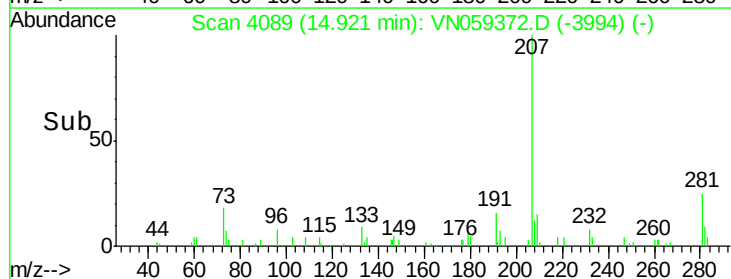
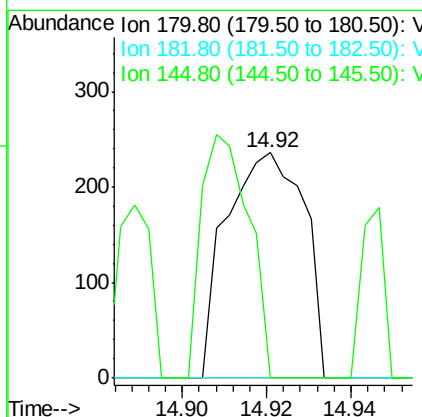
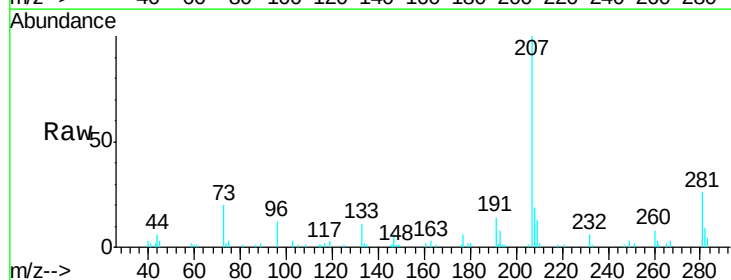
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4-(16-18)DL

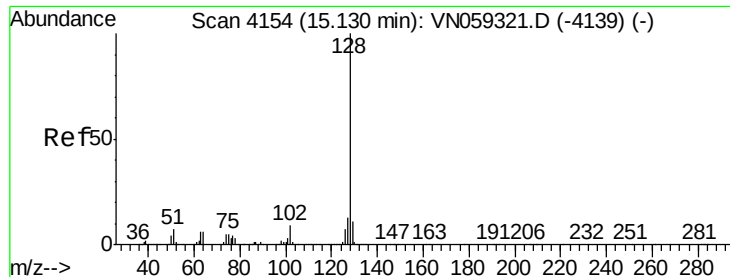
Tgt Ion: 75 Resp: 348
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.5 121.5#
 157 0.0 52.7 158.1#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.017 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN059372.D
 Acq: 22 Nov 2019 17:58

Tgt Ion: 180 Resp: 303
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.2 141.6#
 145 65.7 14.9 44.5#





#95

Naphthalene

Concen: 3.303 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(16-18)DL

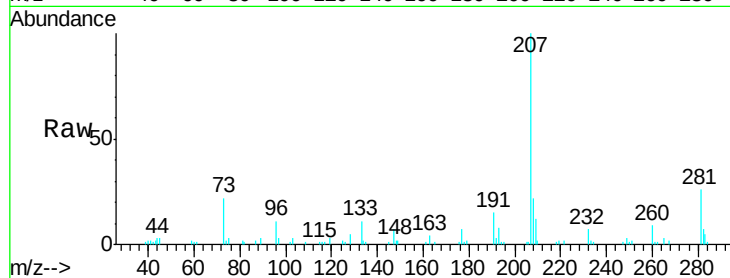
Tgt Ion:128 Resp: 1447

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

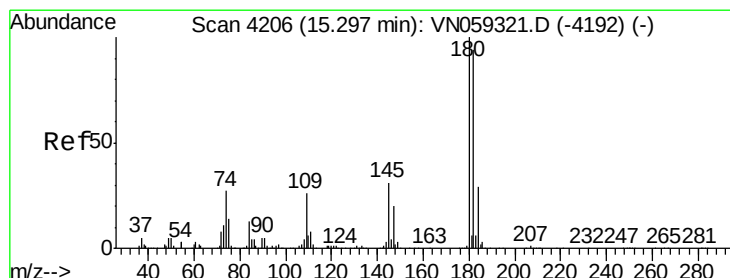
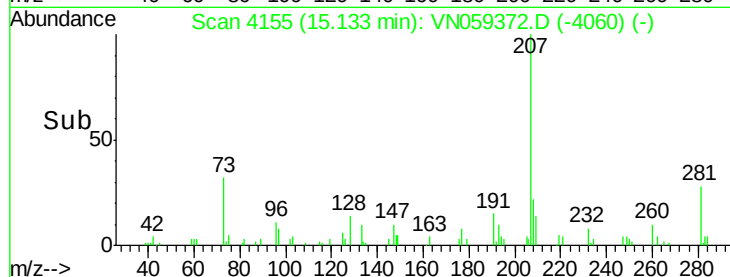
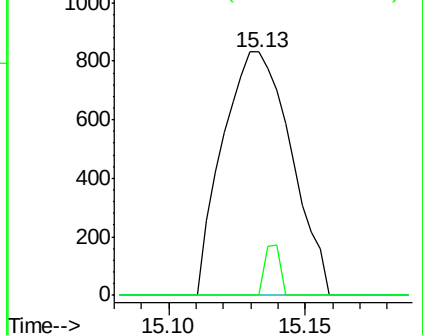
129 4.6 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.058 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.01 min

Lab File: VN059372.D

Acq: 22 Nov 2019 17:58

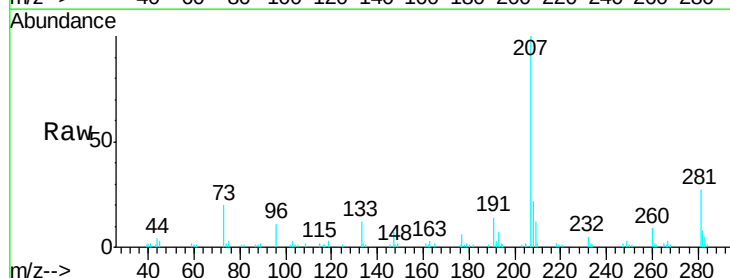
Tgt Ion:180 Resp: 579

Ion Ratio Lower Upper

180 100

182 48.2 47.1 141.4

145 24.2 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

