

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056135.D
 Acq On : 8 Jun 2019 7:27
 Operator : JC/SP
 Sample : K3214-03 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4A

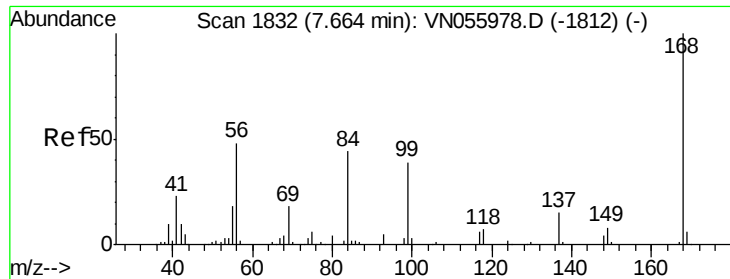
Quant Time: Jun 10 01:21:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	311148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	474721	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	453207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	167039	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	154983	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
35) Dibromofluoromethane	7.59	113	136435	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	10.09	98	572114	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	12.40	95	189057	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	994	0.673	ug/l #	41
31) Cyclohexane	7.66	56	4389	0.895	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17904	4.386	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24779	6.584	ug/l #	14
40) Benzene	8.04	78	16927	1.365	ug/l	92
44) Trichloroethene	8.83	130	850	0.239	ug/l	87
51) 4-Methyl-2-Pentanone	10.09	43	2433	0.661	ug/l #	1
67) Ethyl Benzene	11.51	91	15100	0.963	ug/l	97
68) m/p-Xylenes	11.62	106	3932	0.656	ug/l	99
69) o-Xylene	11.95	106	3035	0.515	ug/l	100
71) Bromoform	12.40	173	1366	3.236	ug/l #	1
73) Isopropylbenzene	12.25	105	3176	Below Cal		98
76) 1,2,3-Trichloropropane	12.40	75	85371	27.776	ug/l #	100
79) 2-Chlorotoluene	12.69	91	234	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	4936	0.439	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	85371	92.498	ug/l #	15
83) tert-Butylbenzene	13.04	119	1644	Below Cal	#	66
84) 1,2,4-Trimethylbenzene	13.04	105	14413	1.353	ug/l	94
85) sec-Butylbenzene	13.04	105	14413	1.152	ug/l #	55
86) p-Isopropyltoluene	13.29	119	3449	0.308	ug/l	95
89) n-Butylbenzene	13.54	91	17303	2.085	ug/l #	41
90) Hexachloroethane	13.89	117	392	0.232	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	244	0.440	ug/l #	1
95) Naphthalene	15.13	128	186216	25.363	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampleId :

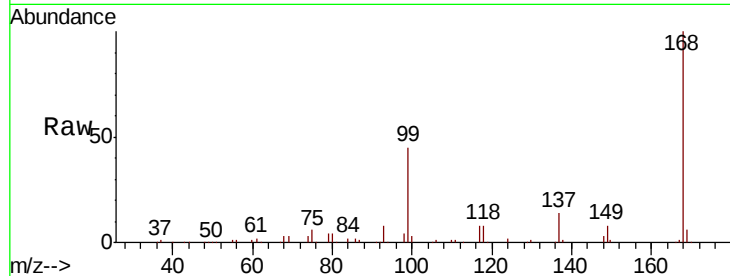
MW-4A

Tot Ion:168 Resp: 311148

Ion Ratio Lower Upper

168 100

99 44.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

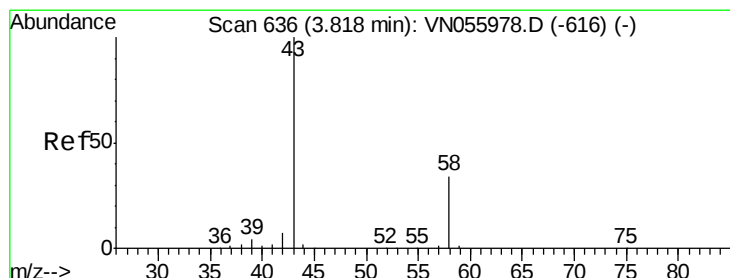
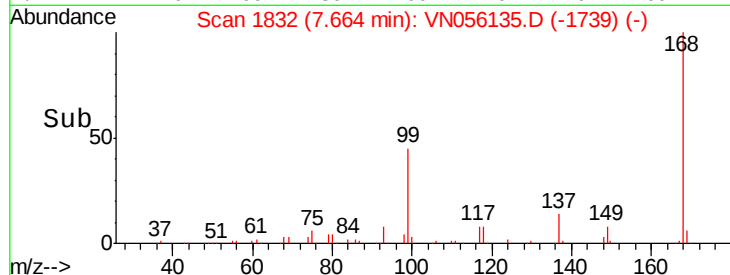
100000

50000

0

Time-->

7.60 7.70



#16

Acetone

Concen: 0.673 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056135.D

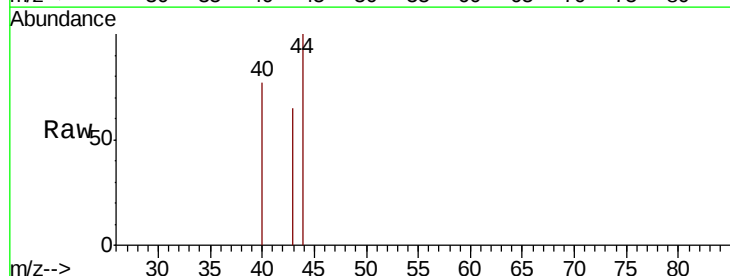
Acq: 8 Jun 2019 7:27

Tgt Ion: 43 Resp: 994

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-616) (-)

3.83

400

300

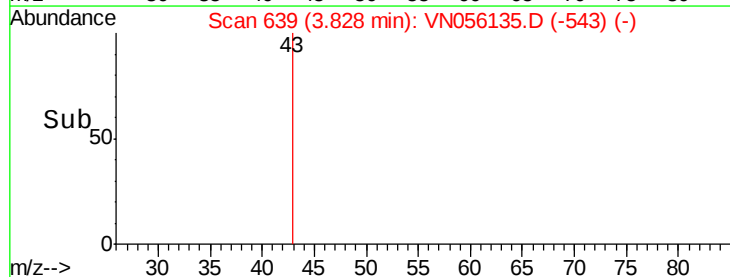
200

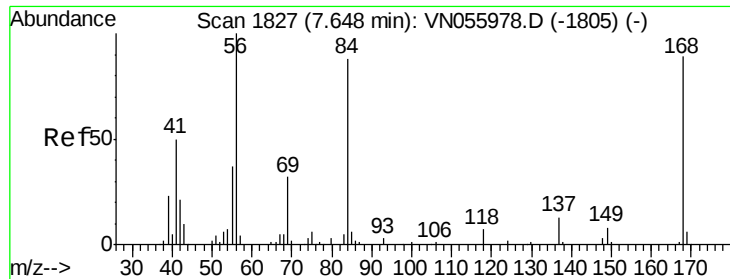
100

0

Time-->

3.80 3.85

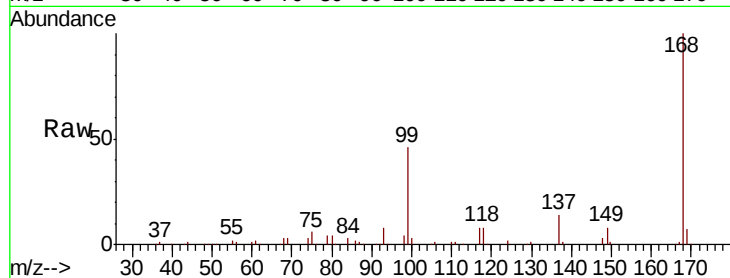




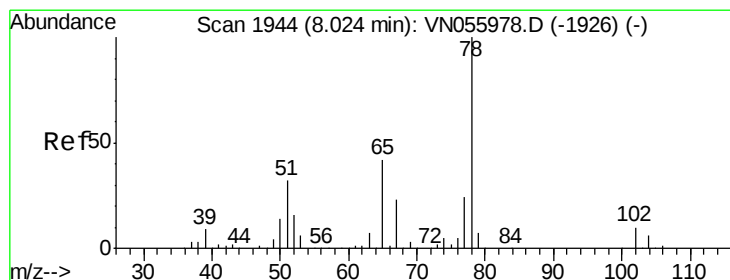
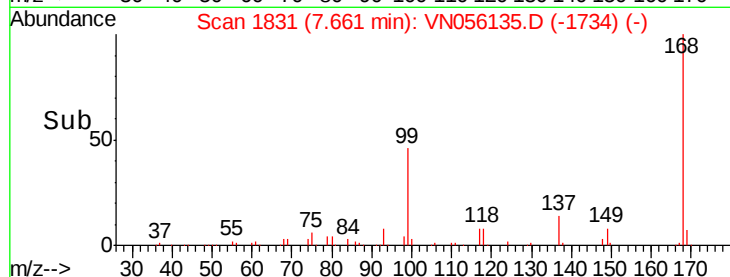
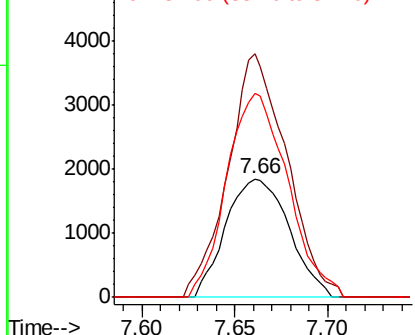
#31
Cyclohexane
Concen: 0.895 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Instrument :
MSVOA_N
ClientSampled :
MW-4A

Tot Ion: 56 Resp: 4389
Ion Ratio Lower Upper
56 100
69 197.2 25.6 38.4#
84 172.6 67.4 101.0#

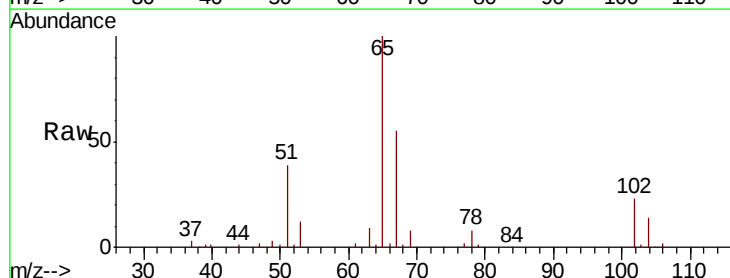


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

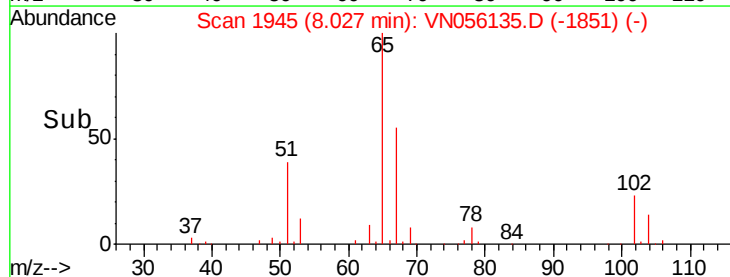
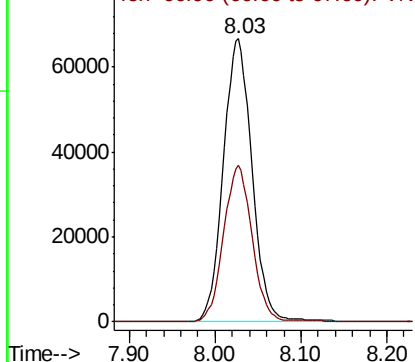


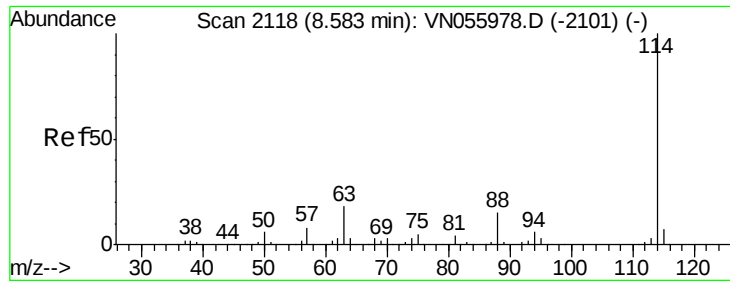
#33
1,2-Dichloroethane-d4
Concen: 50.165 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Tgt Ion: 65 Resp: 154983
Ion Ratio Lower Upper
65 100
67 54.9 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampleId :

MW-4A

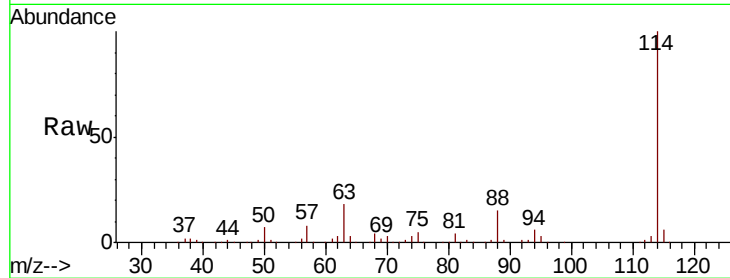
Tot Ion:114 Resp: 474721

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

88 15.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.58

250000

200000

150000

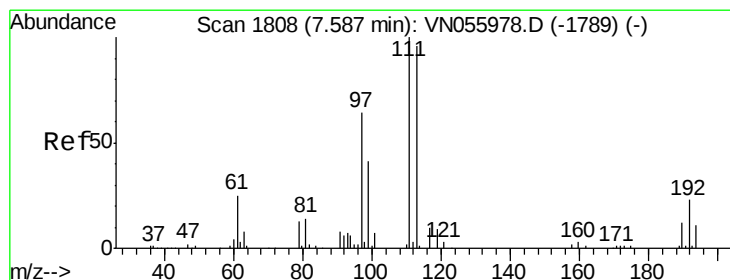
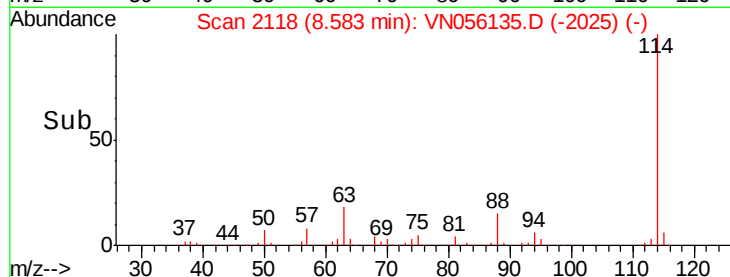
100000

50000

0

8.50 8.60 8.70 8.80

Time-->



#35

Dibromofluoromethane

Concen: 46.844 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

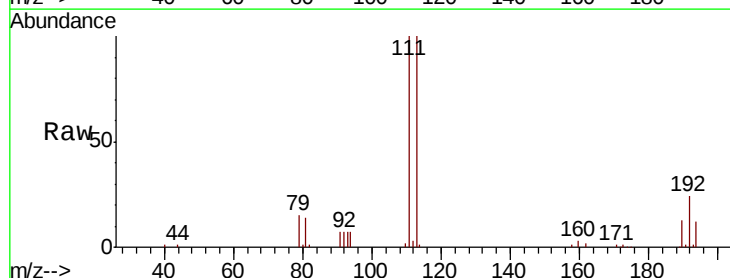
Tgt Ion:113 Resp: 136435

Ion Ratio Lower Upper

113 100

111 100.4 81.9 122.9

192 24.4 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.59

60000

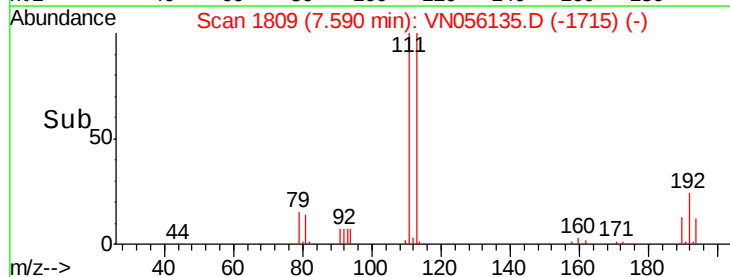
40000

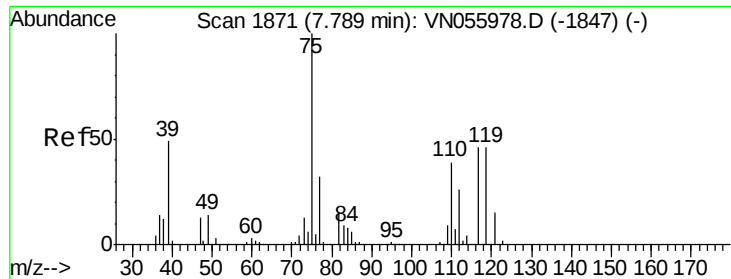
20000

0

7.50 7.60 7.70

Time-->

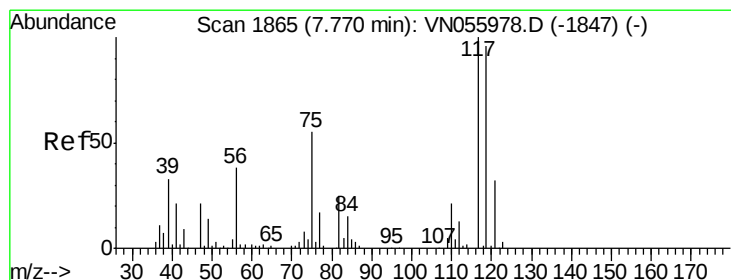
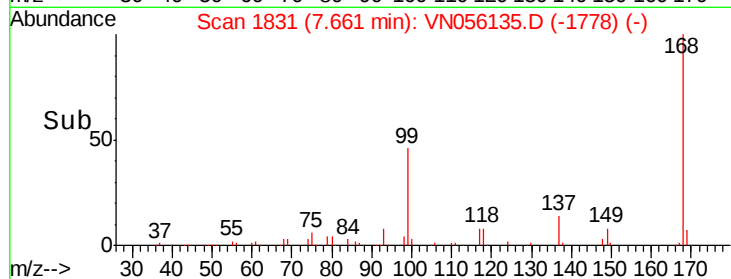
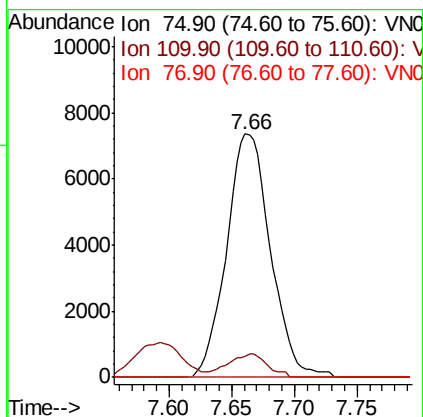
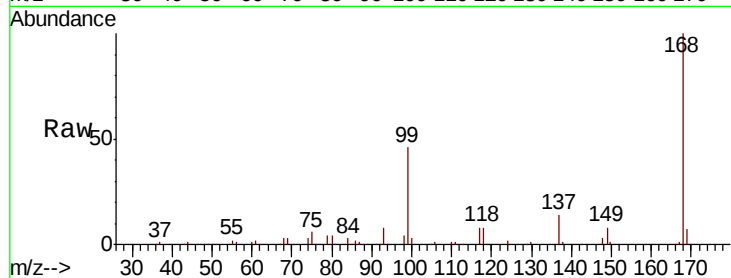




#36
 1,1-Dichloropropene
 Concen: 4.386 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

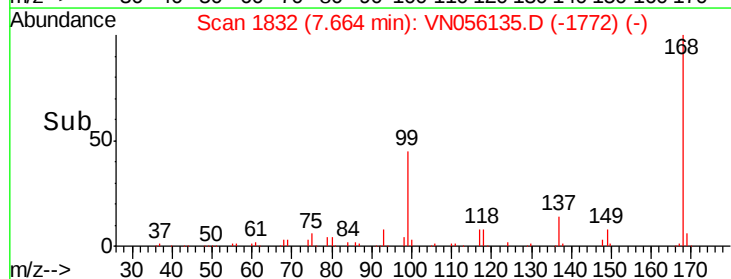
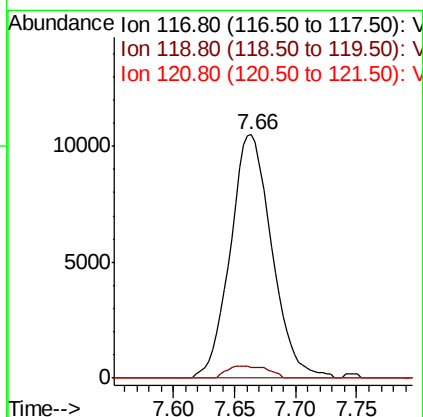
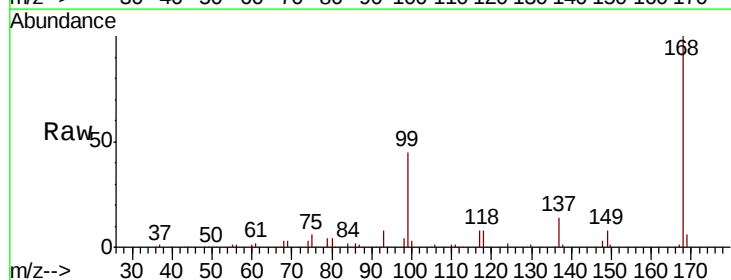
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4A

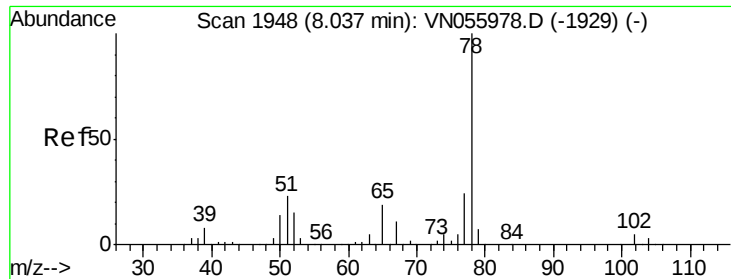
Tot Ion	75	Resp	17904
Ion Ratio	Lower	Upper	
75	100		
110	8.6	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.584 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

Tgt Ion	117	Resp	24779
Ion Ratio	Lower	Upper	
117	100		
119	4.6	79.0	118.6#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 1.365 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

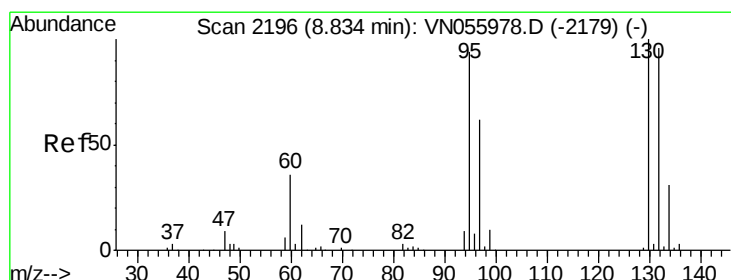
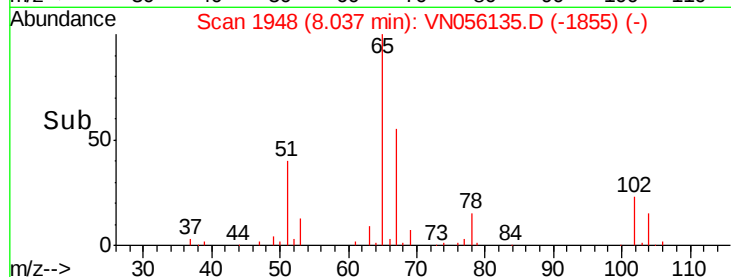
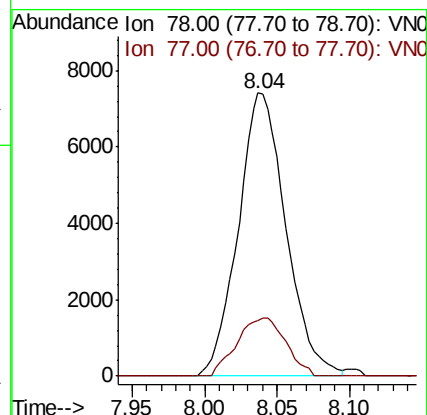
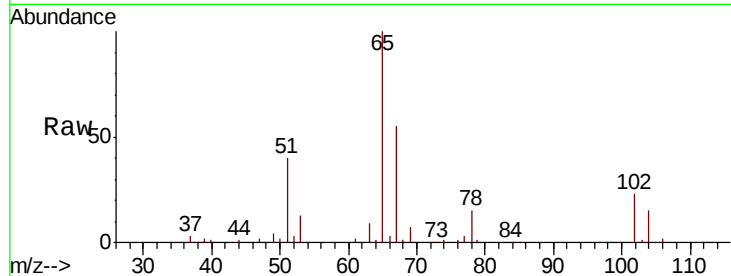
MW-4A

Tot Ion: 78 Resp: 16927

Ion Ratio Lower Upper

78 100

77 19.7 18.8 28.2



#44

Trichloroethene

Concen: 0.239 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056135.D

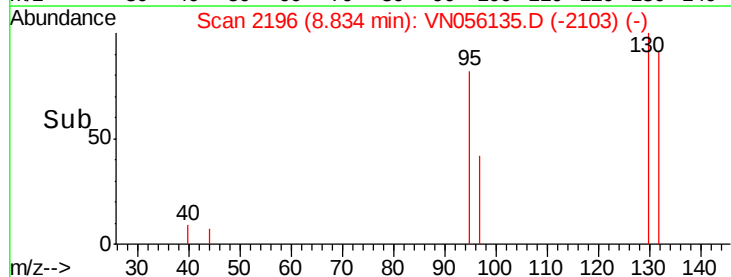
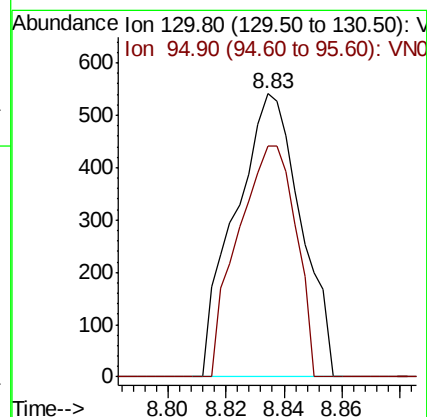
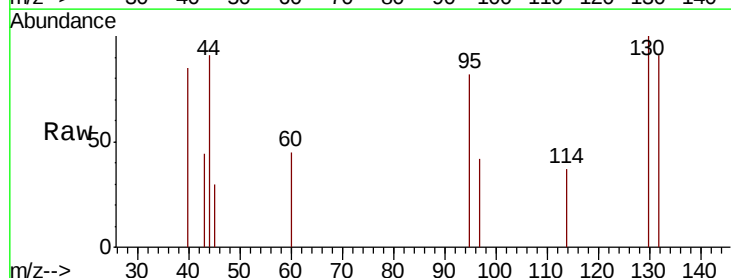
Acq: 8 Jun 2019 7:27

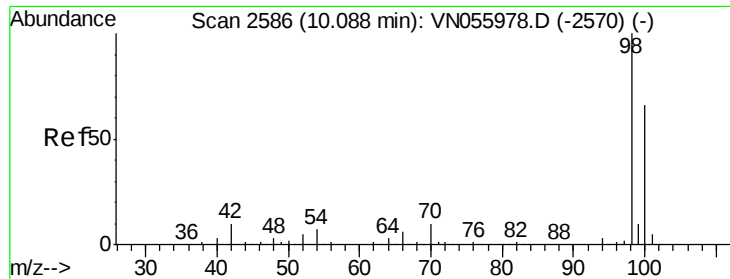
Tgt Ion:130 Resp: 850

Ion Ratio Lower Upper

130 100

95 81.7 0.0 188.0





#50

Toluene-d8

Concen: 51.047 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampleId :

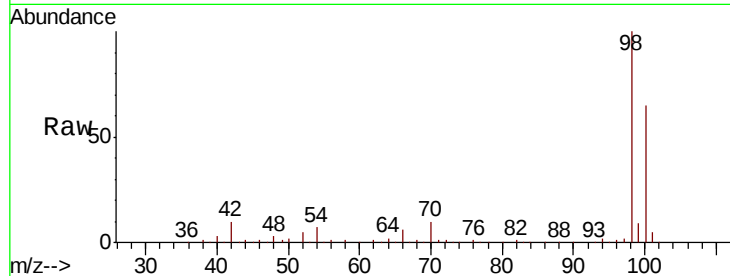
MW-4A

Tot Ion: 98 Resp: 572114

Ion Ratio Lower Upper

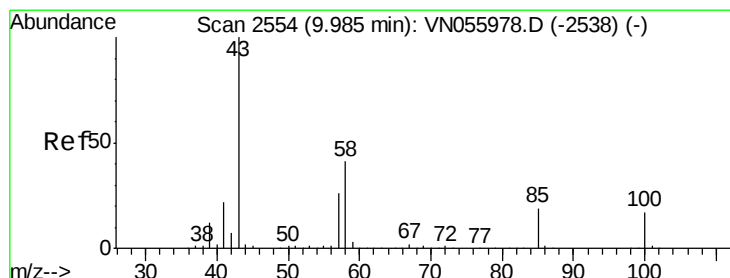
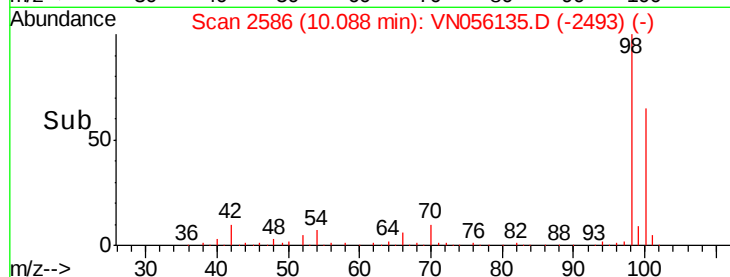
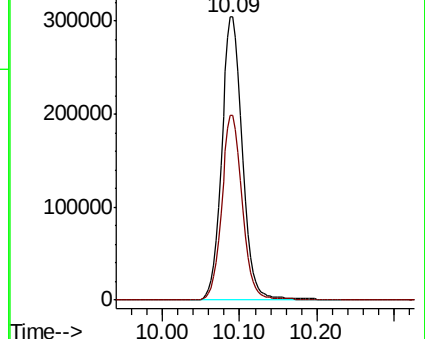
98 100

100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.661 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056135.D

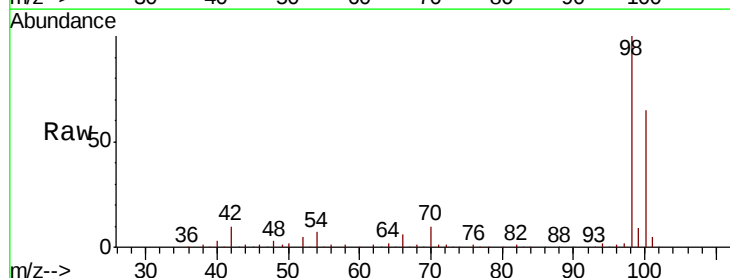
Acq: 8 Jun 2019 7:27

Tgt Ion: 43 Resp: 2433

Ion Ratio Lower Upper

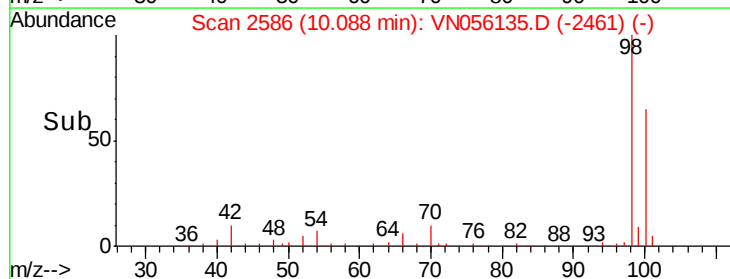
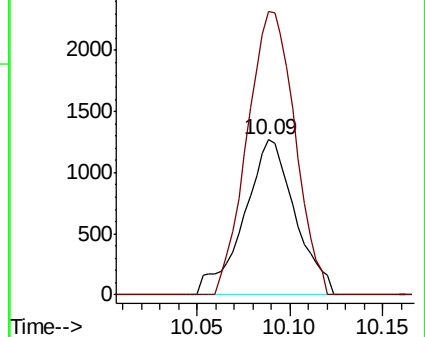
43 100

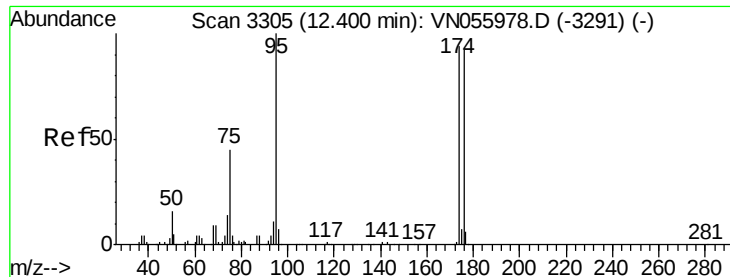
58 170.2 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.603 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

MW-4A

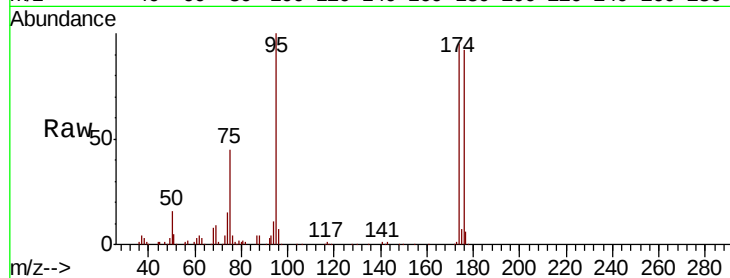
Tot Ion: 95 Resp: 189057

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

176 93.6 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

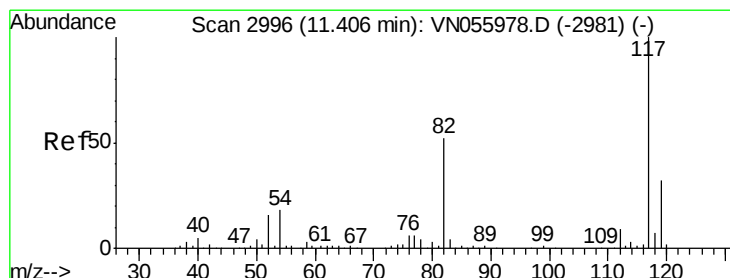
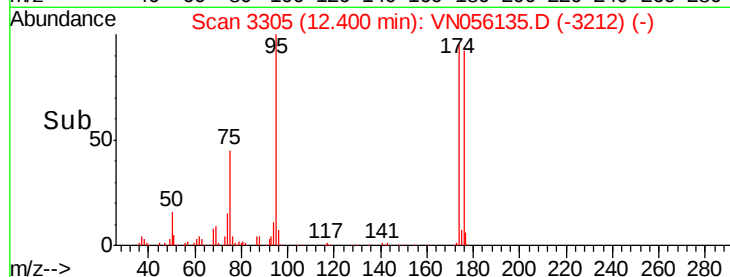
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

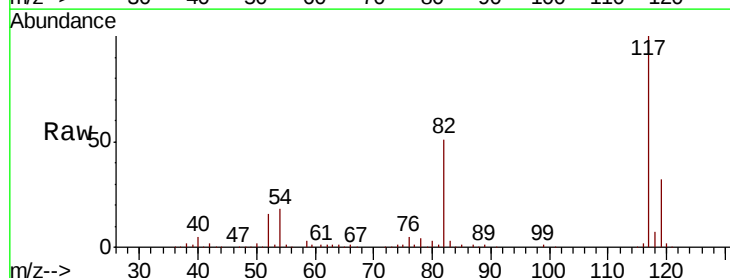
Tgt Ion: 117 Resp: 453207

Ion Ratio Lower Upper

117 100

82 51.4 41.8 62.8

119 31.7 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

11.41

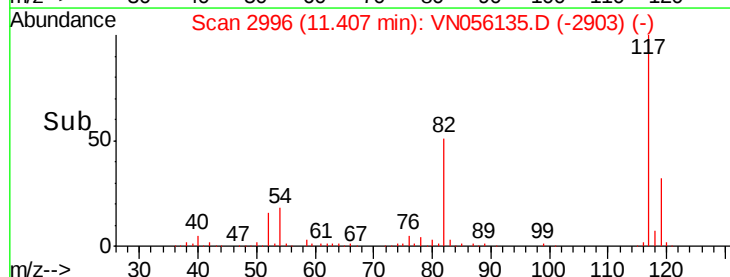
300000

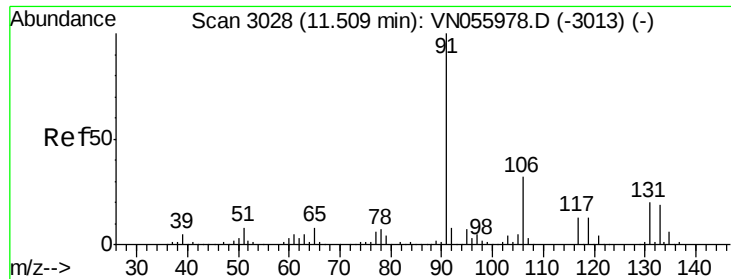
200000

100000

0

Time--> 11.30 11.40 11.50

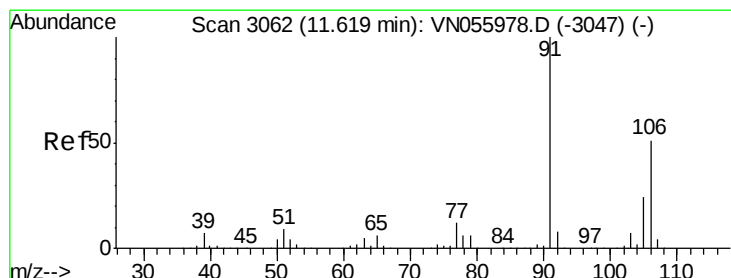
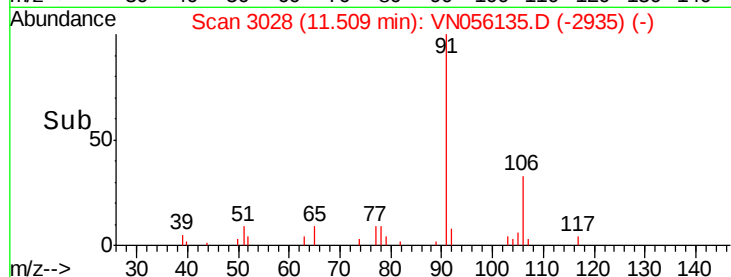
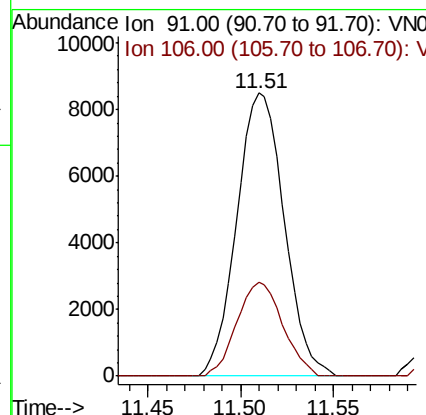
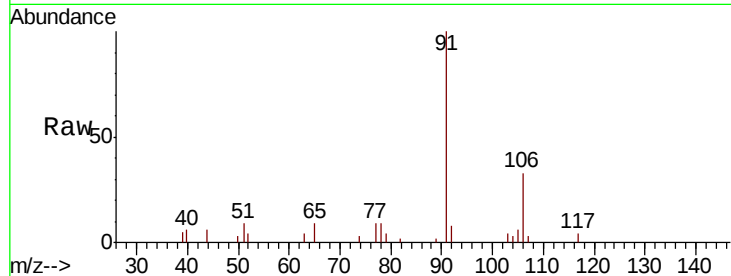




#67
Ethyl Benzene
Concen: 0.963 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

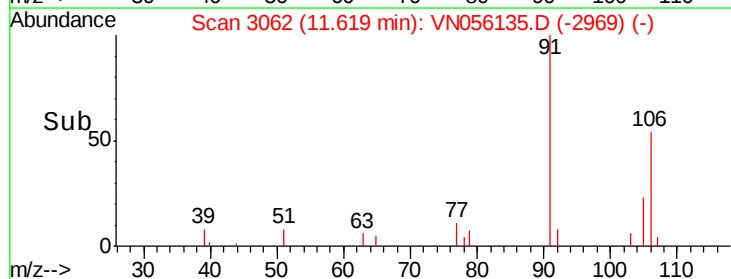
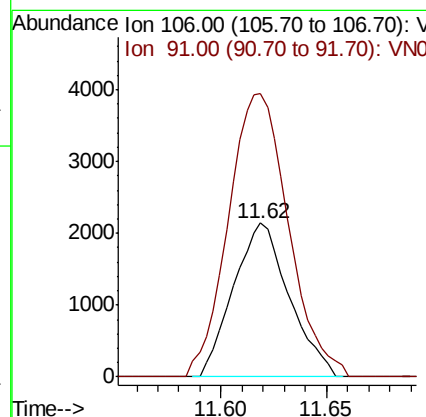
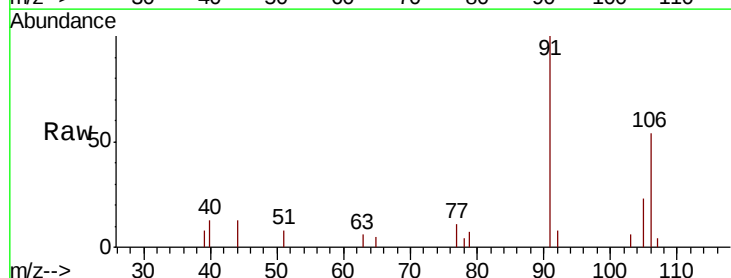
Instrument :
MSVOA_N
ClientSampled :
MW-4A

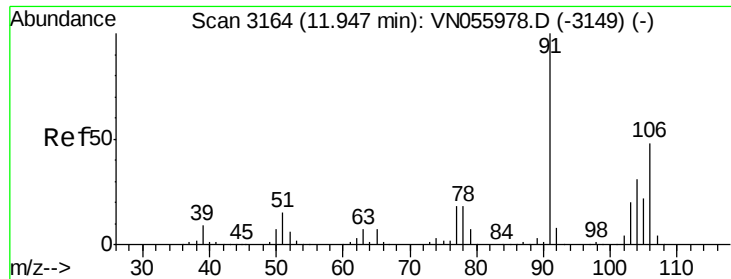
Tot Ion: 91 Resp: 15100
Ion Ratio Lower Upper
91 100
106 33.1 25.1 37.7



#68
m/p-Xylenes
Concen: 0.656 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Tgt Ion: 106 Resp: 3932
Ion Ratio Lower Upper
106 100
91 198.2 159.3 238.9

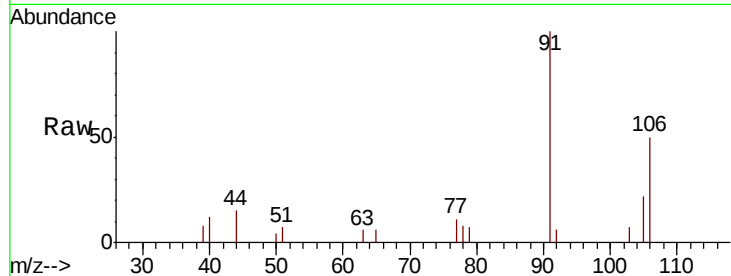




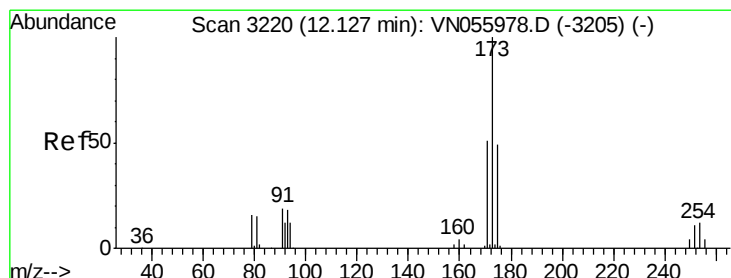
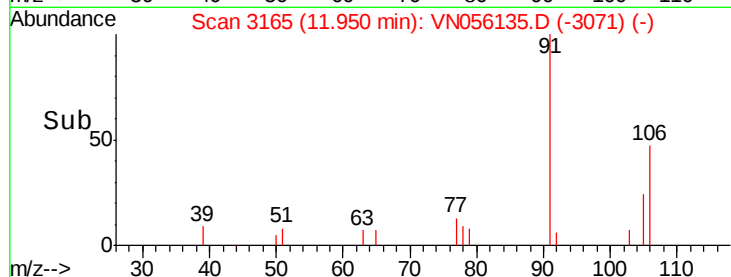
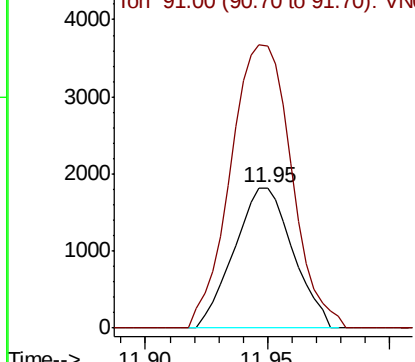
#69
o-Xylene
Concen: 0.515 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Instrument :
MSVOA_N
ClientSampled :
MW-4A

Tot Ion:106 Resp: 3035
Ion Ratio Lower Upper
106 100
91 210.0 104.7 314.1

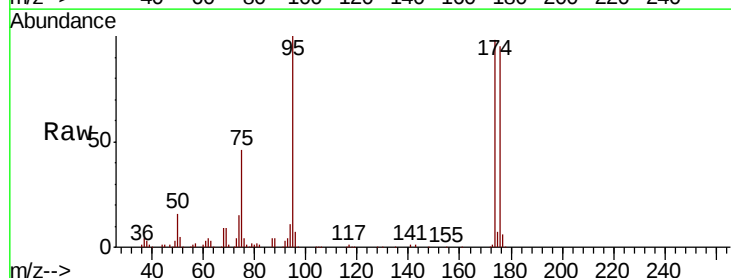


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

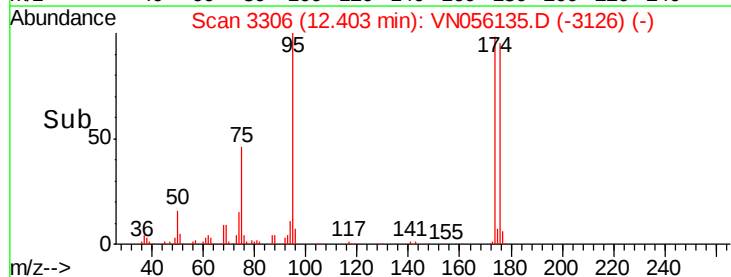
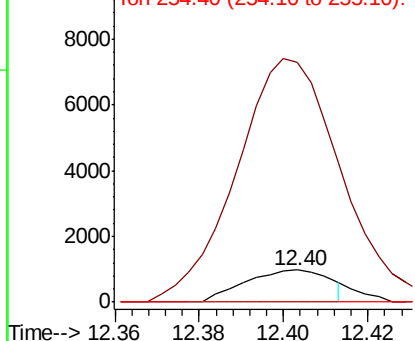


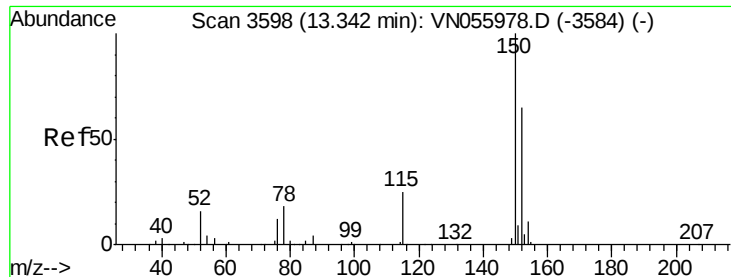
#71
Bromoform
Concen: 3.236 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Tgt Ion:173 Resp: 1366
Ion Ratio Lower Upper
173 100
175 810.5 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

MW-4A

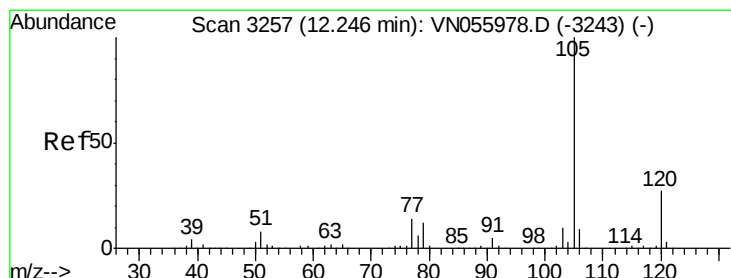
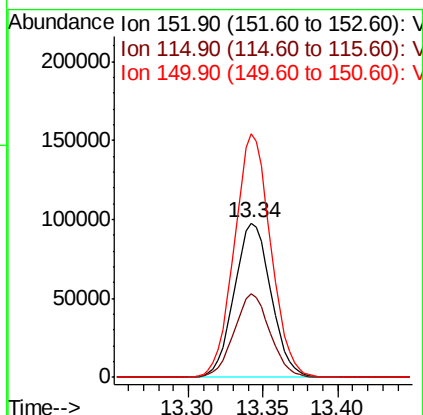
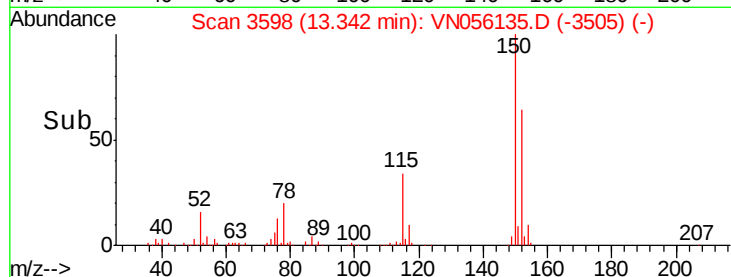
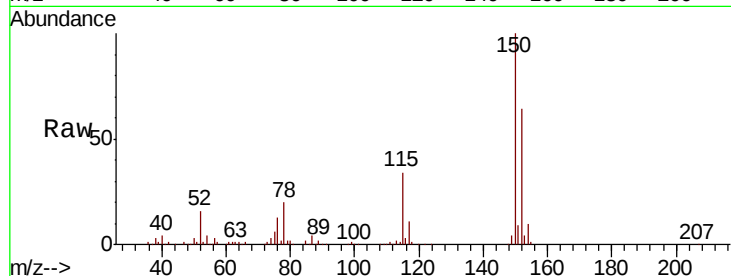
Tot Ion:152 Resp: 167039

Ion Ratio Lower Upper

152 100

115 53.0 27.0 81.0

150 156.5 0.0 343.2



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056135.D

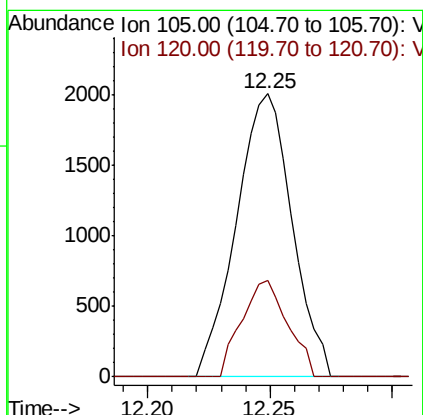
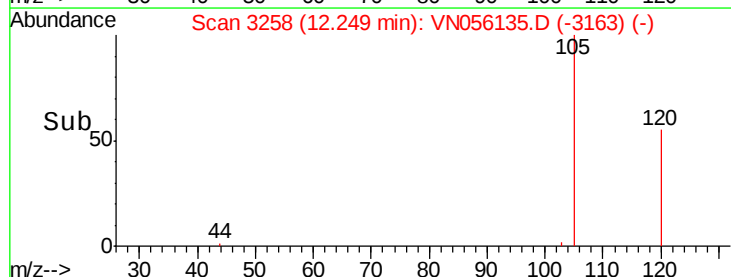
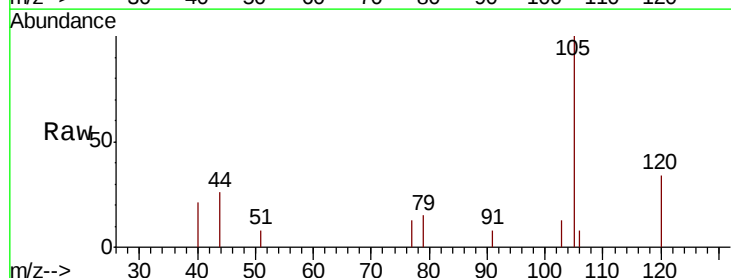
Acq: 8 Jun 2019 7:27

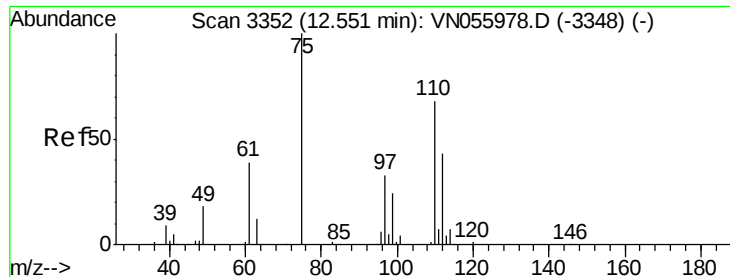
Tgt Ion:105 Resp: 3176

Ion Ratio Lower Upper

105 100

120 28.1 13.6 40.7

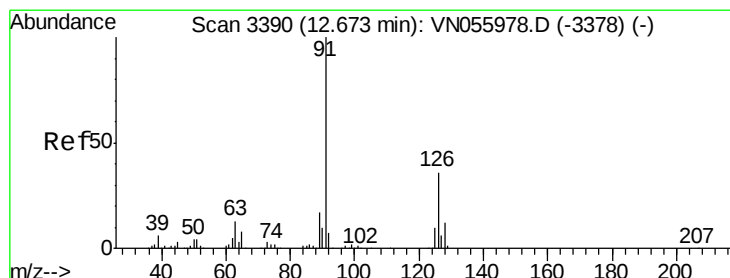
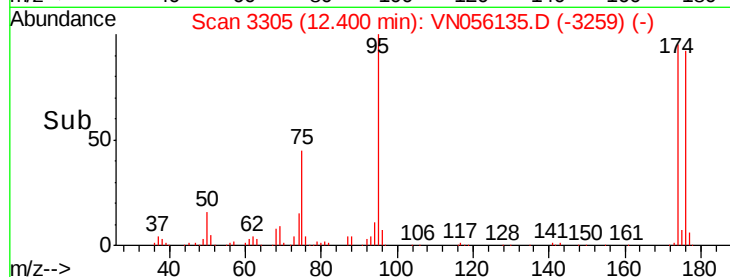
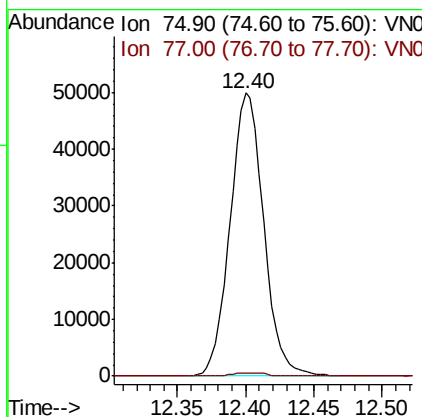
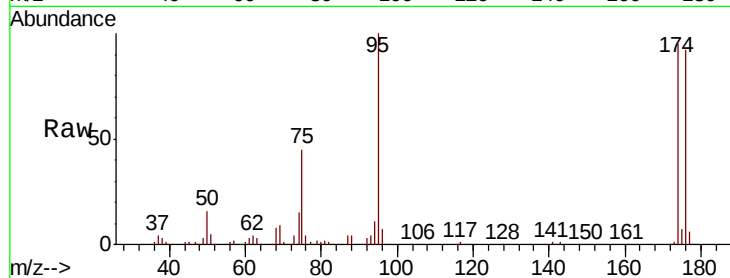




#76
 1,2,3-Trichloropropane
 Concen: 27.776 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

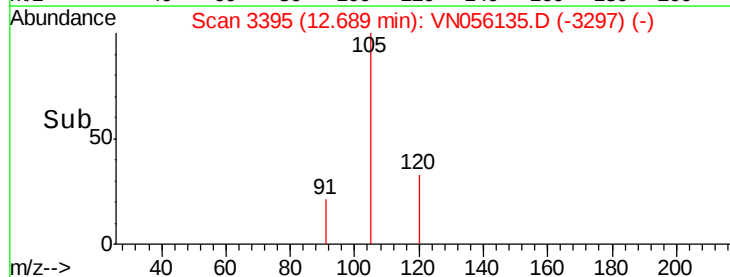
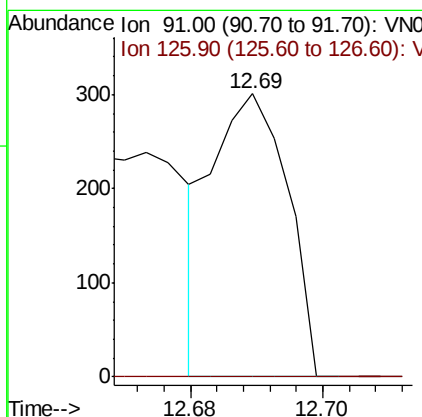
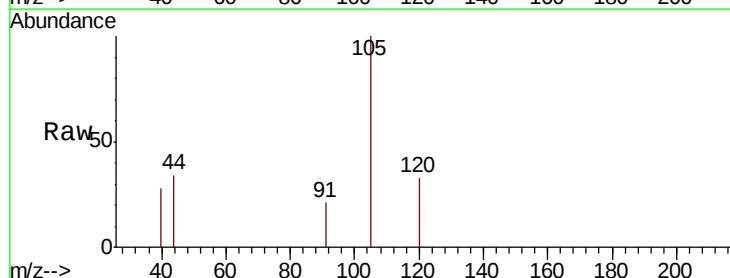
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4A

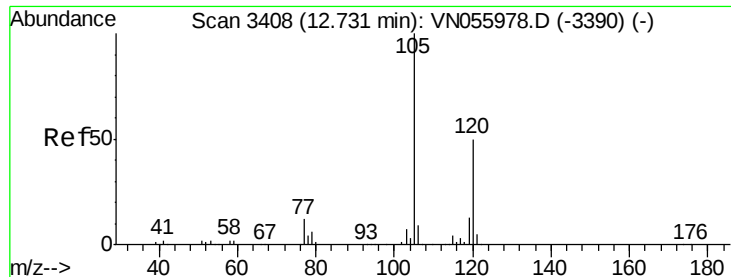
Tot Ion: 75 Resp: 85371
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.69 min Scan# 3395
 Delta R.T. 0.02 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

Tgt Ion: 91 Resp: 234
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#





#80

1,3,5-Trimethylbenzene

Concen: 0.439 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

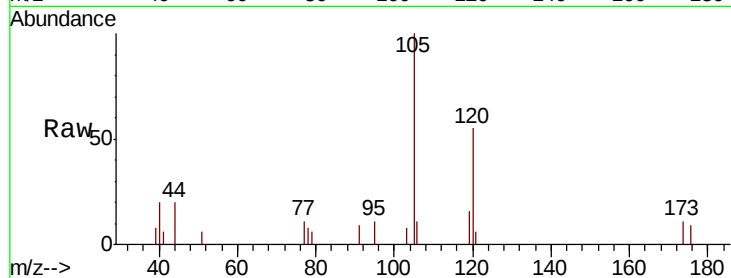
MW-4A

Tot Ion:105 Resp: 4936

Ion Ratio Lower Upper

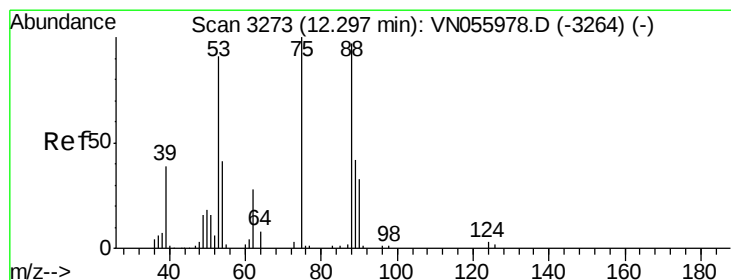
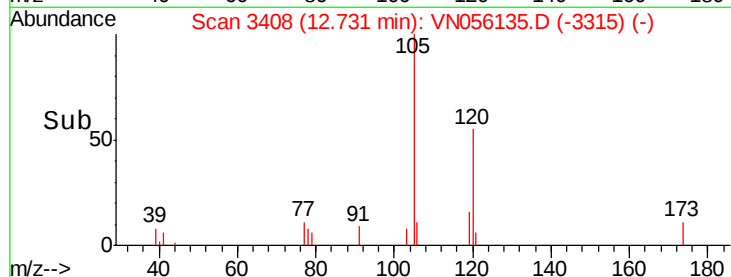
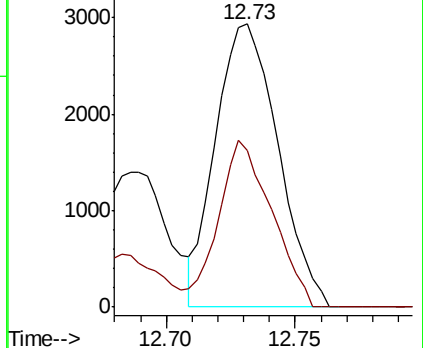
105 100

120 50.6 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 92.498 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

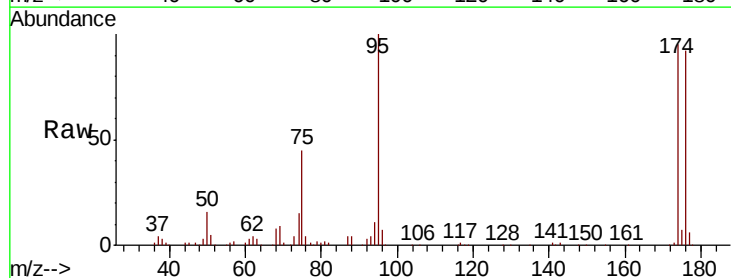
Tgt Ion: 75 Resp: 85371

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

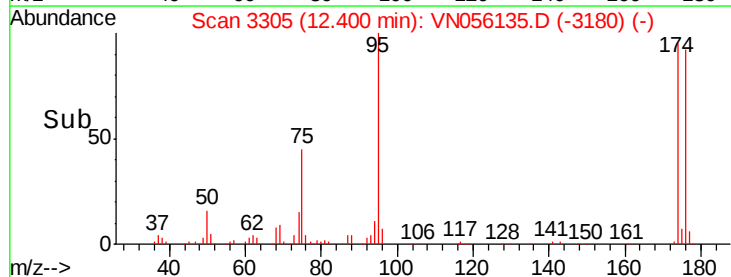
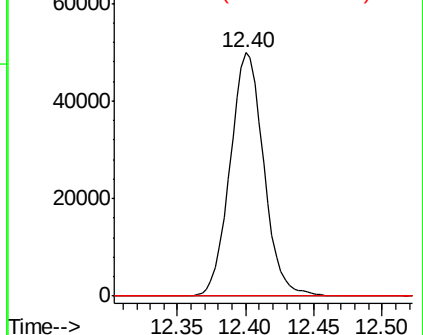
89 0.0 36.9 55.3#

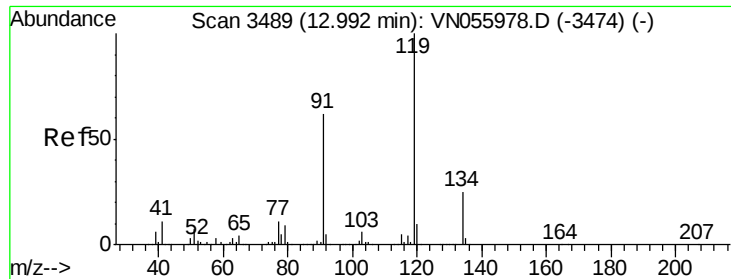


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

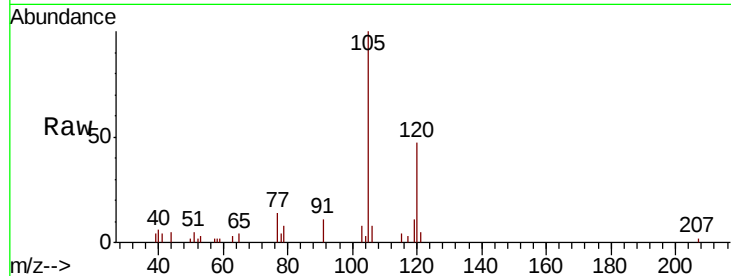




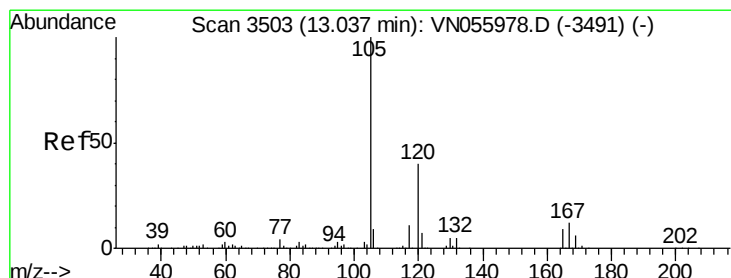
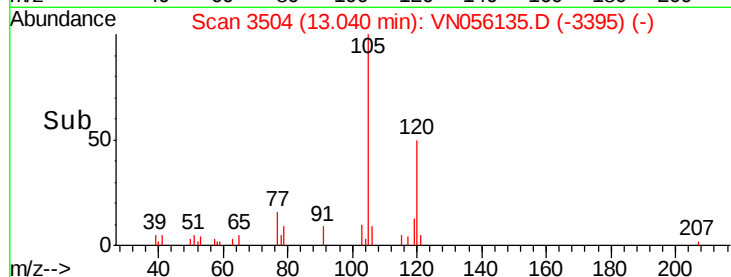
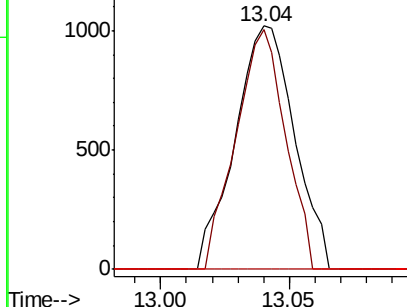
#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.05 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Instrument :
MSVOA_N
ClientSampleId :
MW-4A

Tot Ion:119 Resp: 1644
Ion Ratio Lower Upper
119 100
91 82.4 30.9 92.8
134 0.0 13.3 39.8#

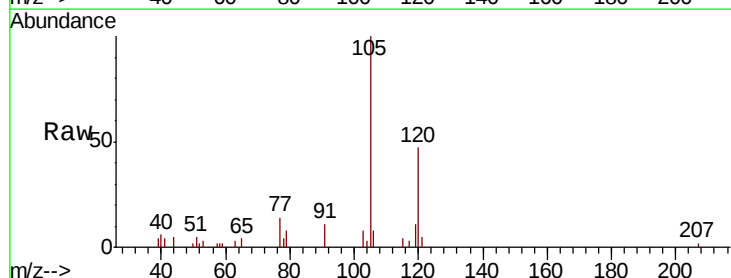


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

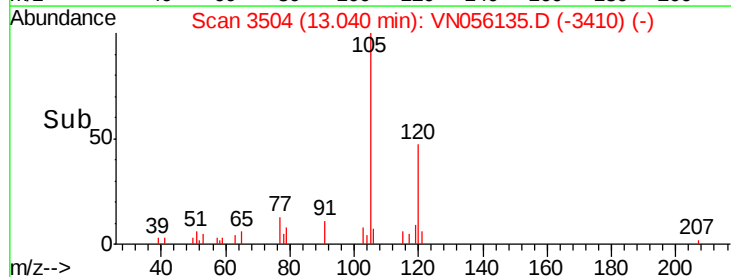
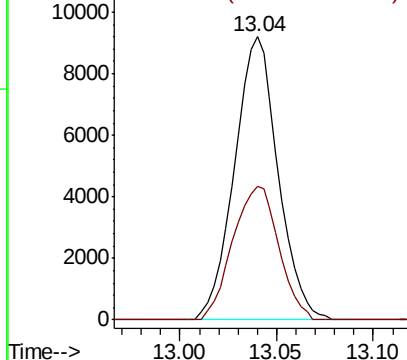


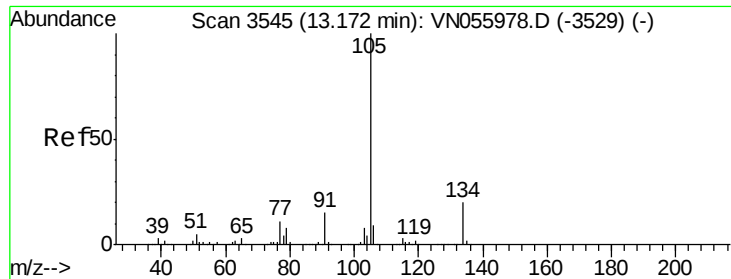
#84
1,2,4-Trimethylbenzene
Concen: 1.353 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056135.D
Acq: 8 Jun 2019 7:27

Tgt Ion:105 Resp: 14413
Ion Ratio Lower Upper
105 100
120 49.7 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.152 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

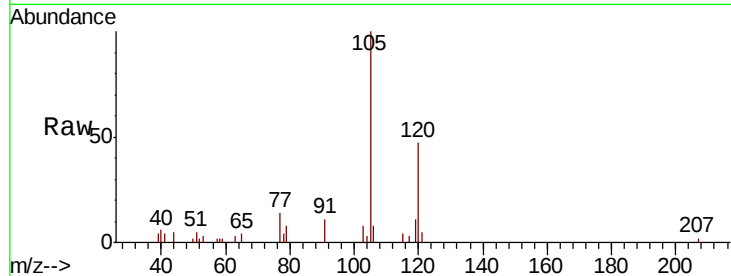
MW-4A

Tot Ion:105 Resp: 14413

Ion Ratio Lower Upper

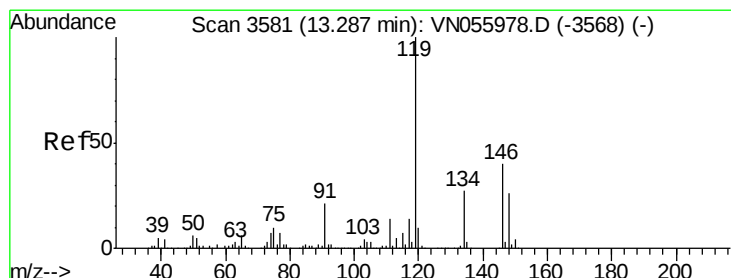
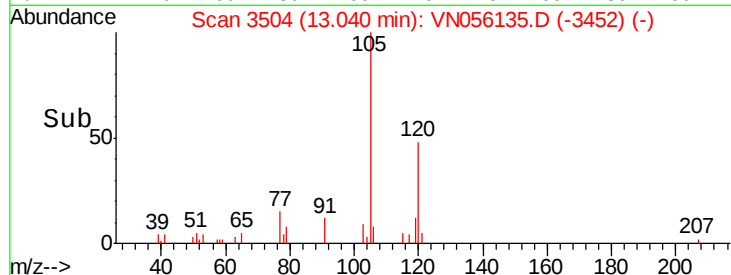
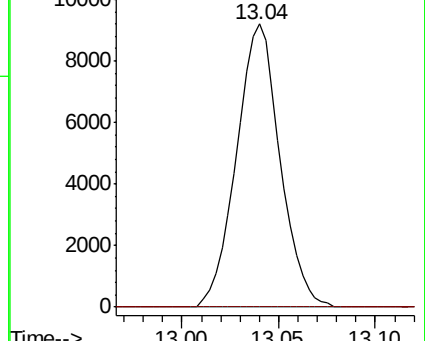
105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.308 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

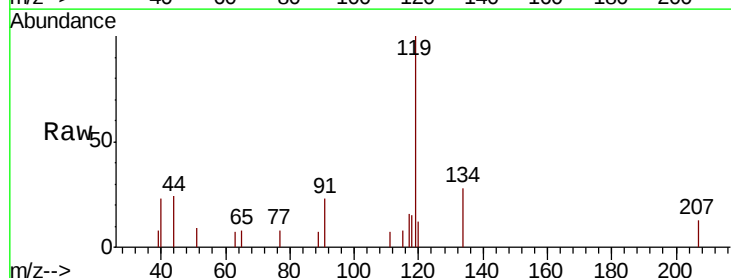
Tgt Ion:119 Resp: 3449

Ion Ratio Lower Upper

119 100

134 25.5 13.4 40.1

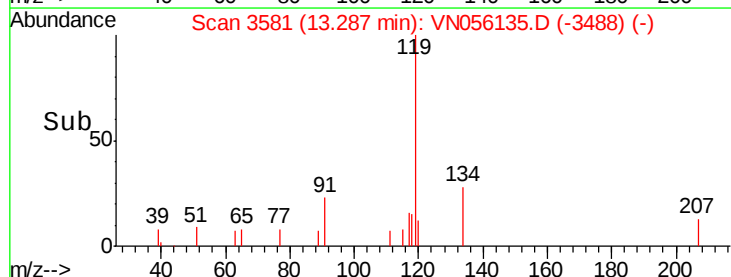
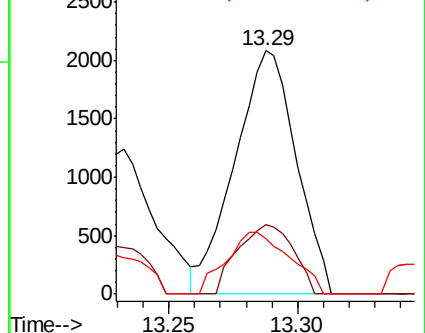
91 26.0 10.9 32.9

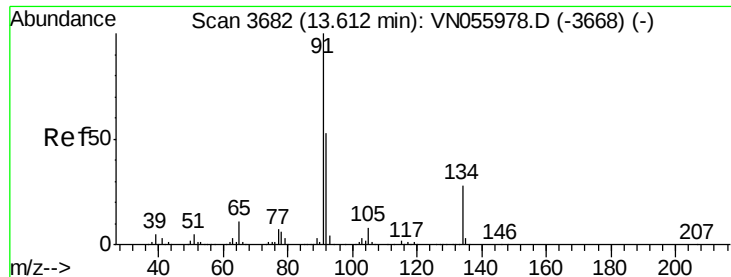


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 2.085 ug/l

RT: 13.54 min Scan# 3660

Delta R.T. -0.07 min

Lab File: VN056135.D

Acq: 8 Jun 2019 7:27

Instrument :

MSVOA_N

ClientSampled :

MW-4A

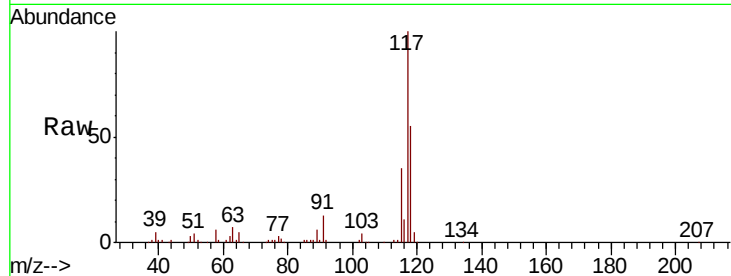
Tot Ion: 91 Resp: 17303

Ion Ratio Lower Upper

91 100

92 8.3 26.4 79.0#

134 0.4 13.9 41.7#

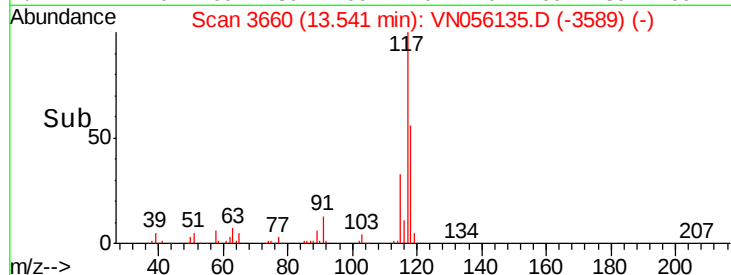


Abundance Ion 91.00 (90.70 to 91.70): VN055978.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN055978.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3668) (-)

Time-->

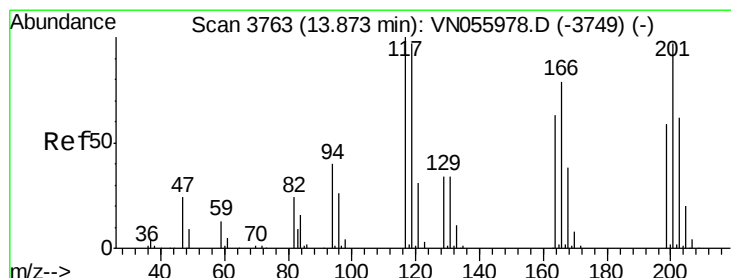


Abundance Ion 91.00 (90.70 to 91.70): VN056135.D (-3589) (-)

Ion 92.00 (91.70 to 92.70): VN056135.D (-3589) (-)

Ion 134.00 (133.70 to 134.70): VN056135.D (-3589) (-)

Time-->



#90

Hexachloroethane

Concen: 0.232 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN056135.D

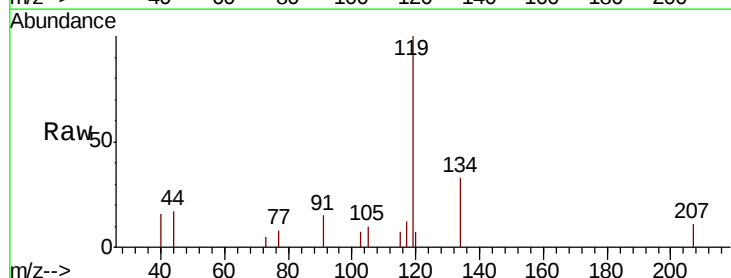
Acq: 8 Jun 2019 7:27

Tgt Ion: 117 Resp: 392

Ion Ratio Lower Upper

117 100

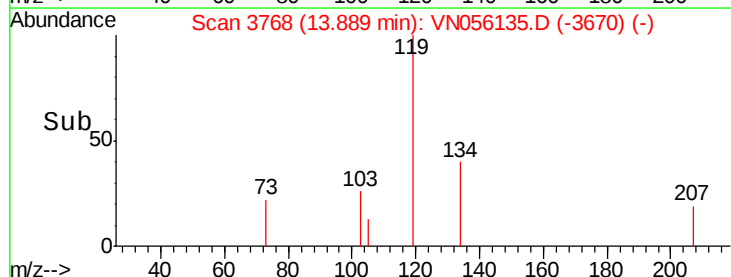
201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN055978.D (-3749) (-)

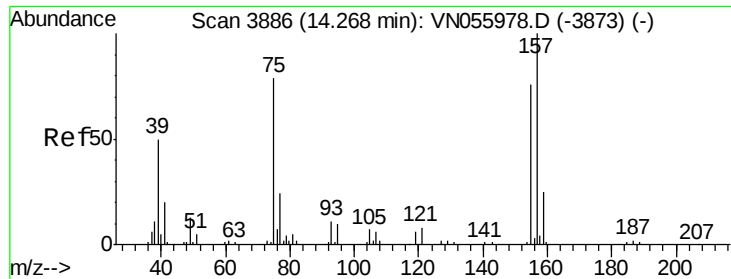
Time-->



Abundance Ion 116.80 (116.50 to 117.50): VN056135.D (-3670) (-)

Ion 200.70 (200.40 to 201.40): VN056135.D (-3670) (-)

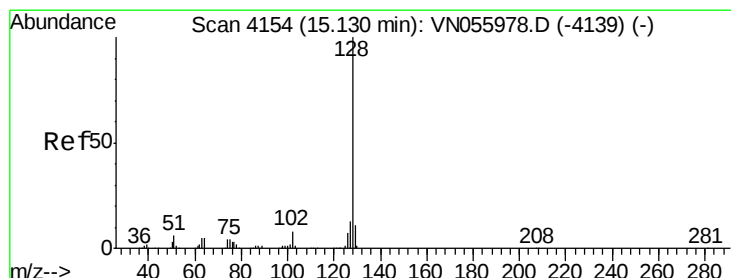
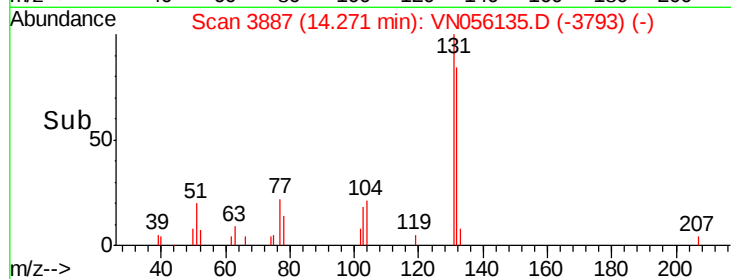
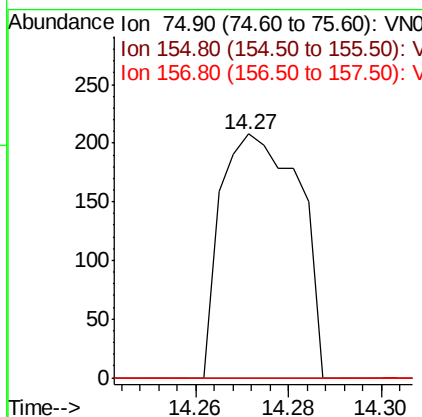
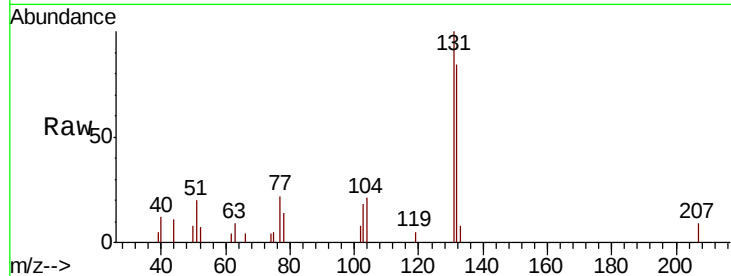
Time-->



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.440 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4A

Tot Ion: 75 Resp: 244
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.0 150.1#
 157 0.0 64.8 194.3#



#95
 Naphthalene
 Concen: 25.363 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056135.D
 Acq: 8 Jun 2019 7:27

Tgt Ion: 128 Resp: 186216
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.3 15.5
 129 10.5 8.7 13.1

