

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056254.D
 Acq On : 12 Jun 2019 17:25
 Operator : JC/SP
 Sample : K3327-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Quant Time: Jun 13 04:34:12 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	312441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	468216	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	465097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154934	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	153310	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
35) Dibromofluoromethane	7.59	113	145289	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
50) Toluene-d8	10.09	98	575094	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
62) 4-Bromofluorobenzene	12.40	95	188387	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	

Target Compounds

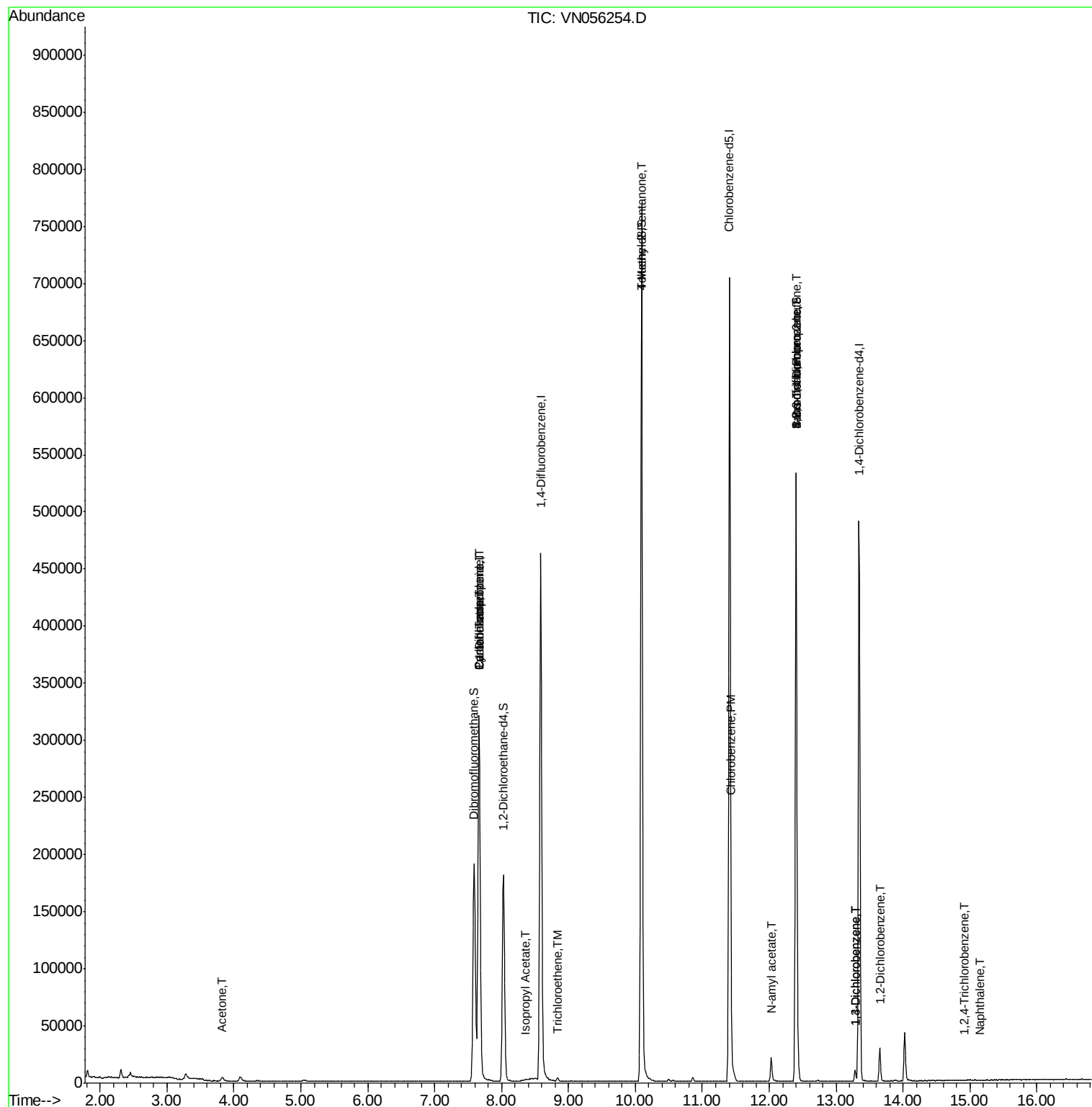
					Qvalue	
16) Acetone	3.83	43	5971	4.024	ug/l	94
18) Methyl Acetate	4.34	43	1377	Below Cal	#	51
31) Cyclohexane	7.67	56	4325	0.879	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17564	4.363	ug/l #	47
38) Carbon Tetrachloride	7.66	117	24791	6.679	ug/l #	16
43) Isopropyl Acetate	8.35	43	2505	0.432	ug/l #	53
44) Trichloroethene	8.84	130	1123	0.320	ug/l	95
51) 4-Methyl-2-Pentanone	10.09	43	2187	0.602	ug/l #	1
65) Chlorobenzene	11.44	112	2301	0.249	ug/l	95
71) Bromoform	12.40	173	1530	3.281	ug/l #	1
74) N-amyl acetate	12.03	43	15505	3.754	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	85922	30.139	ug/l #	100
79) 2-Chlorotoluene	12.40	91	545	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	85922	100.369	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	5457	1.063	ug/l	97
88) 1,4-Dichlorobenzene	13.28	146	5457	1.105	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	14132	2.726	ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	160	4.321	ug/l #	12
95) Naphthalene	15.14	128	93	3.863	ug/l #	69

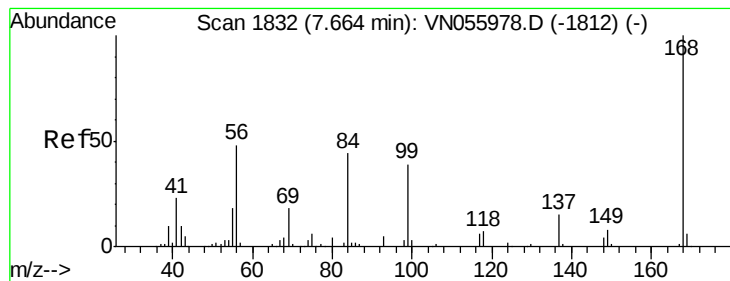
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

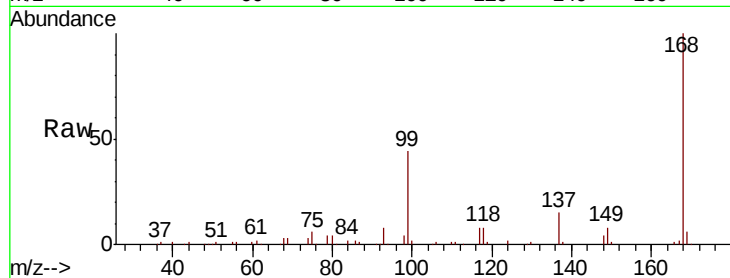
MW-3

Tot Ion:168 Resp: 312441

Ion Ratio Lower Upper

168 100

99 44.5 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

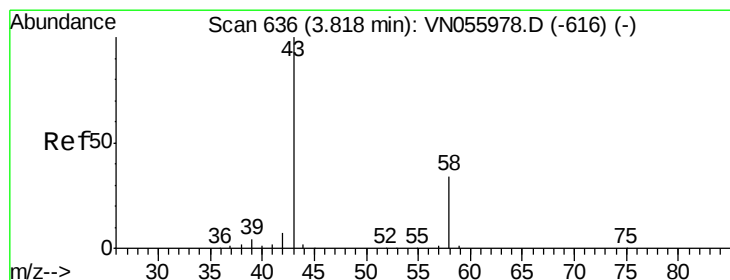
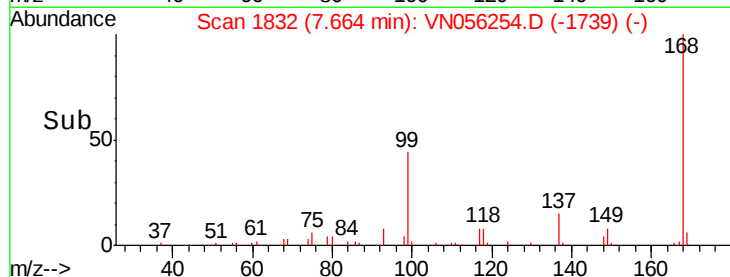
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 4.024 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056254.D

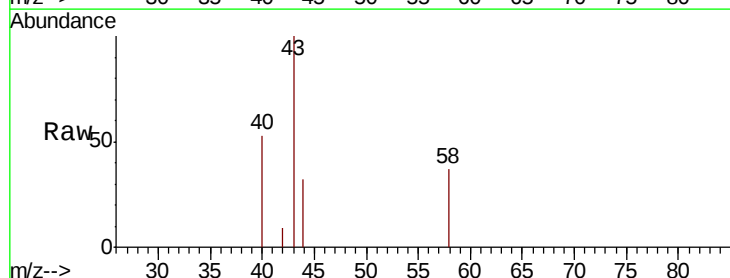
Acq: 12 Jun 2019 17:25

Tgt Ion: 43 Resp: 5971

Ion Ratio Lower Upper

43 100

58 36.7 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

2500

2000

1500

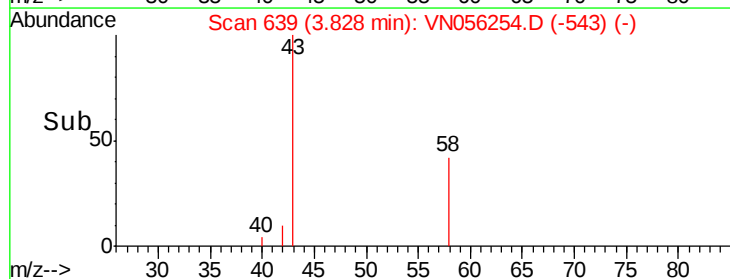
1000

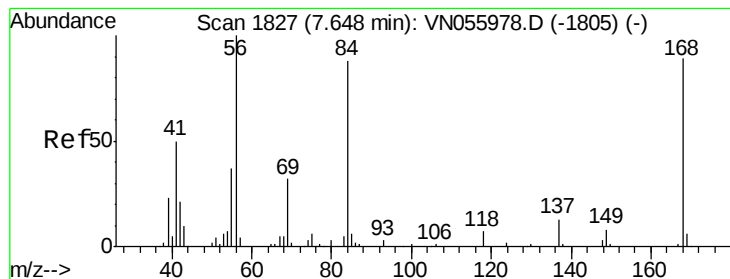
500

0

3.75 3.80 3.85 3.90

Time-->





#31

Cyclohexane

Concen: 0.879 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

MW-3

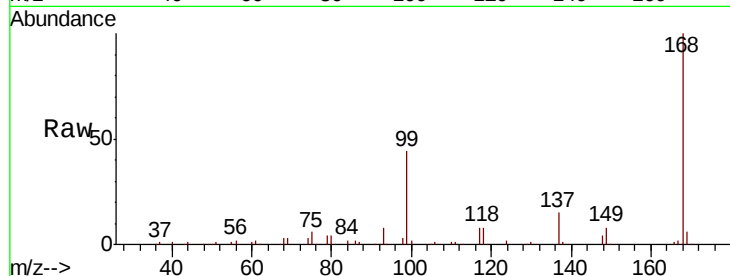
Tot Ion: 56 Resp: 4325

Ion Ratio Lower Upper

56 100

69 173.2 25.6 38.4#

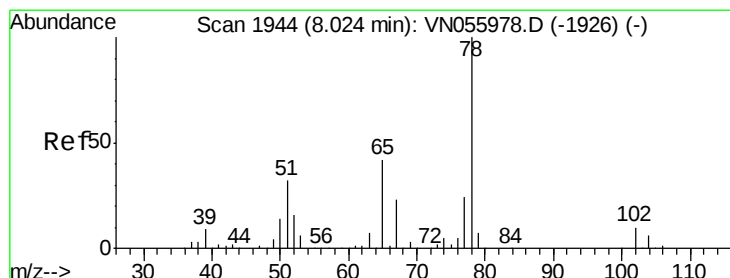
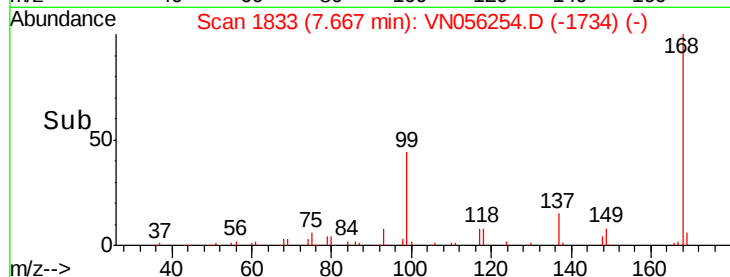
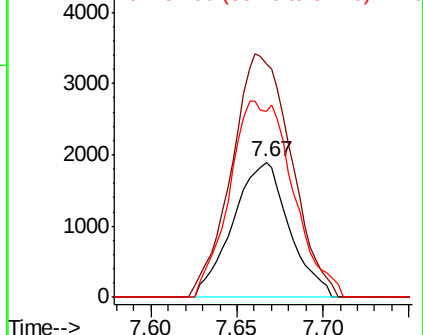
84 138.2 67.4 101.0#



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: 49.419 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056254.D

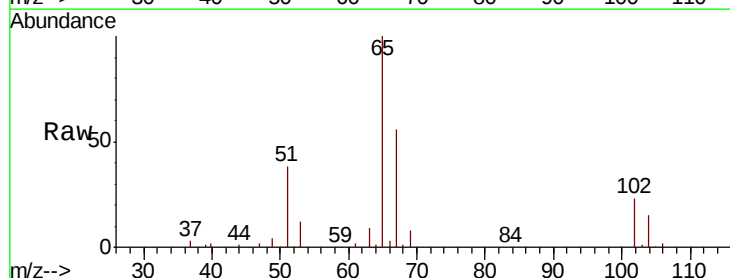
Acq: 12 Jun 2019 17:25

Tgt Ion: 65 Resp: 153310

Ion Ratio Lower Upper

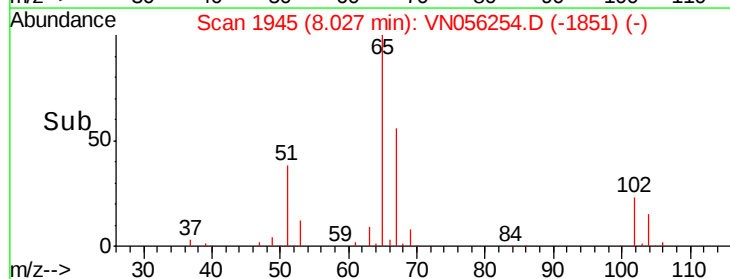
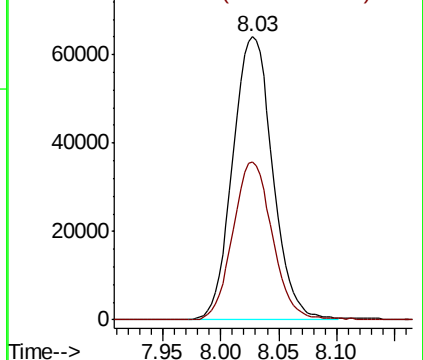
65 100

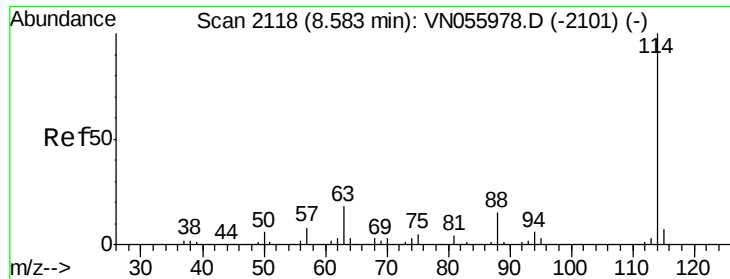
67 55.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

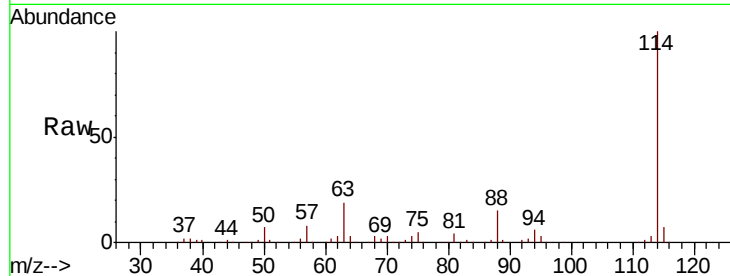




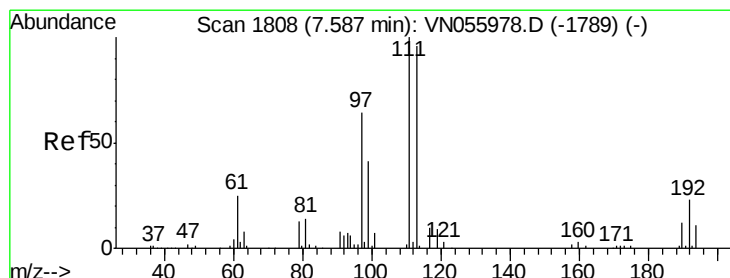
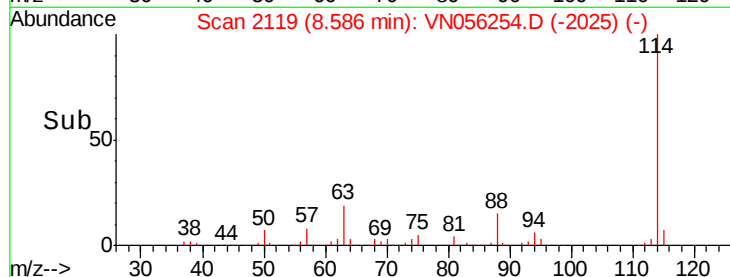
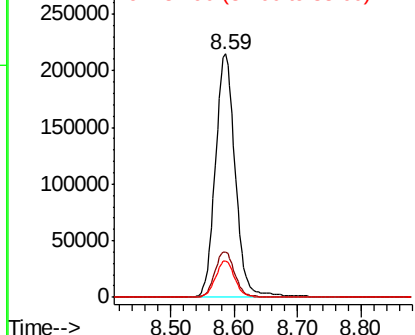
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion:114 Resp: 468216
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 14.7 0.0 31.0

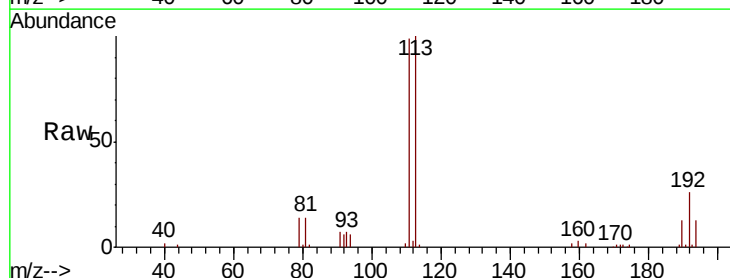


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

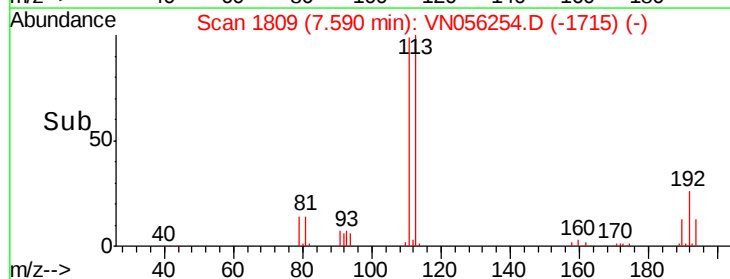
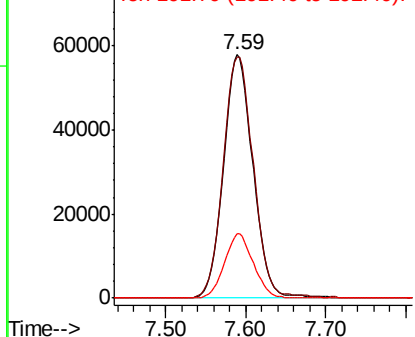


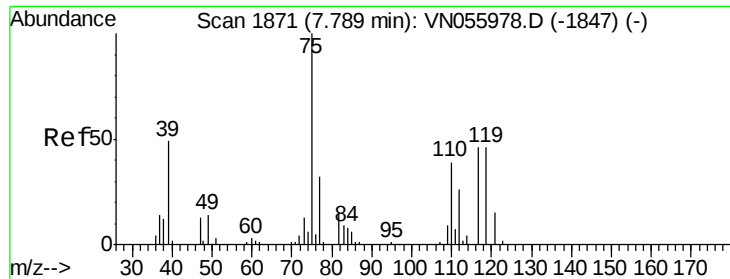
#35
 Dibromofluoromethane
 Concen: 50.576 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Tgt Ion:113 Resp: 145289
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.9 122.9
 192 25.9 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

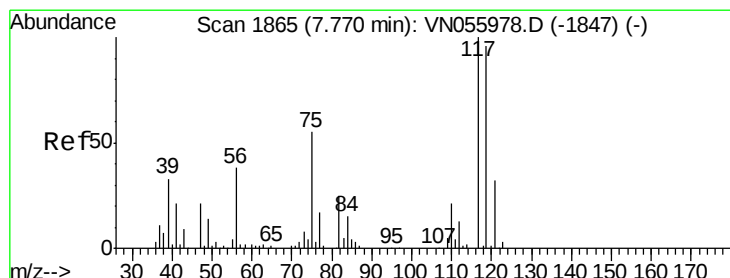
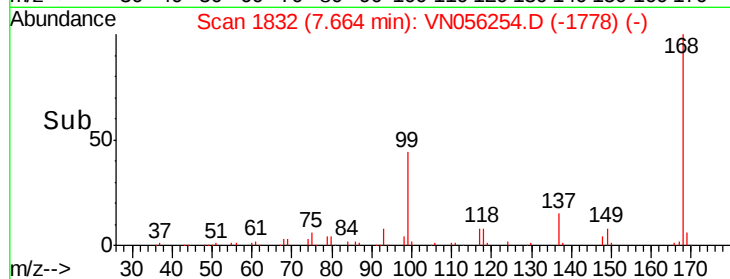
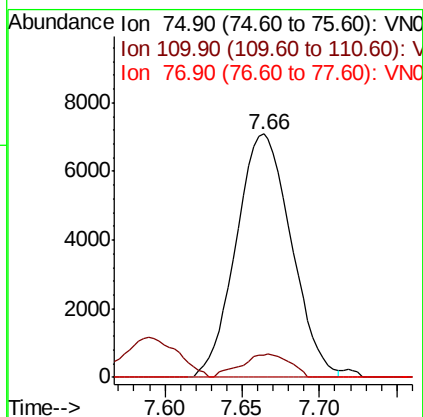
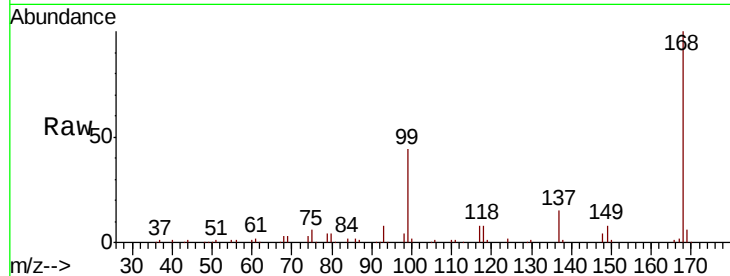




#36
 1,1-Dichloropropene
 Concen: 4.363 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

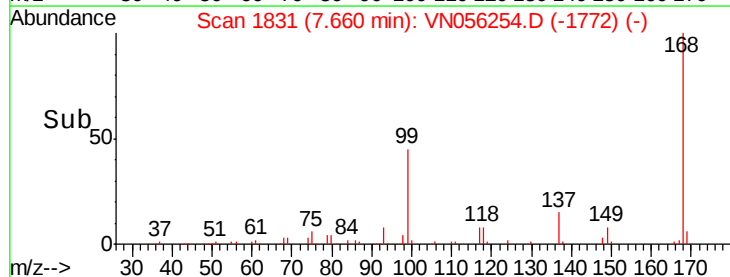
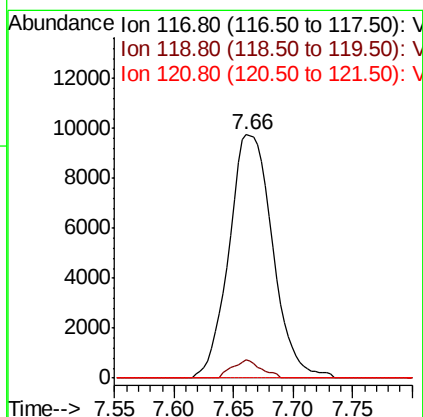
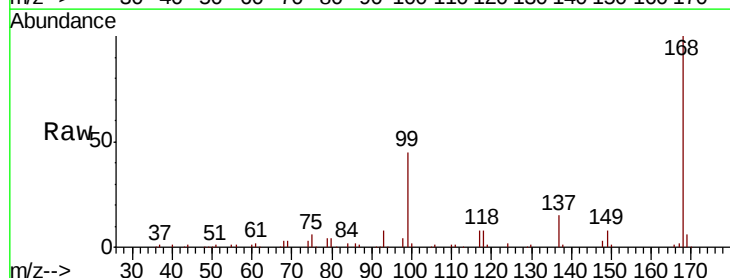
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

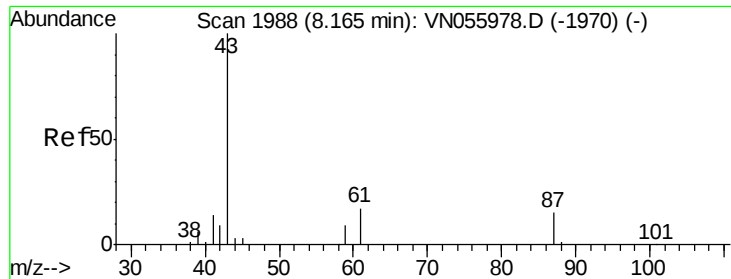
Tot Ion	75	Resp	17564
Ion Ratio	Lower	Upper	
75	100		
110	8.3	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.679 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Tgt Ion	117	Resp	24791
Ion Ratio	Lower	Upper	
117	100		
119	7.4	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.432 ug/l

RT: 8.35 min Scan# 2045

Delta R.T. 0.18 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampled :

MW-3

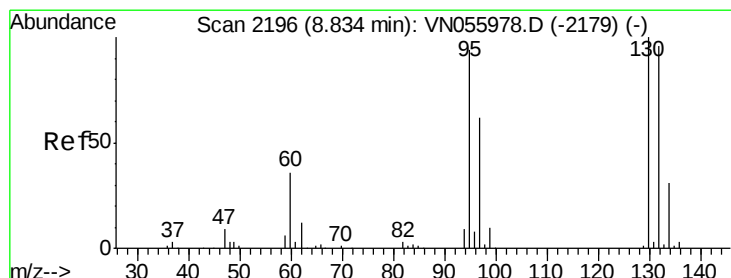
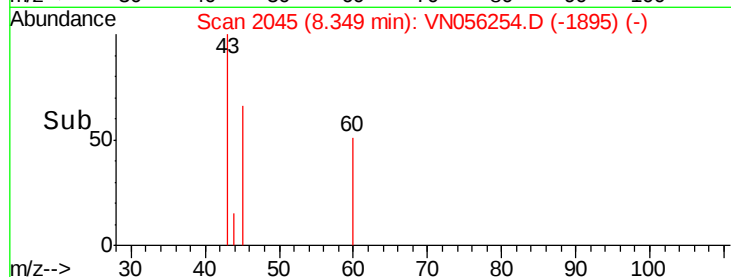
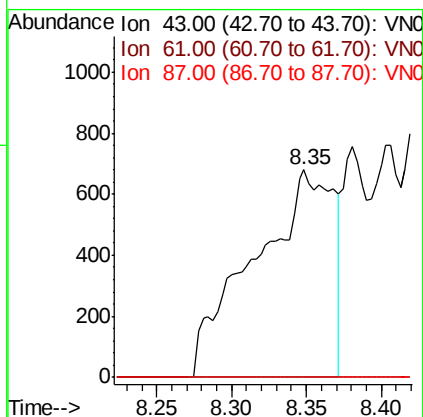
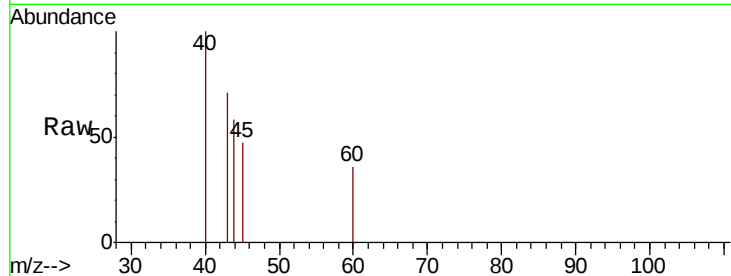
Tot Ion: 43 Resp: 2505

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#44

Trichloroethene

Concen: 0.320 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN056254.D

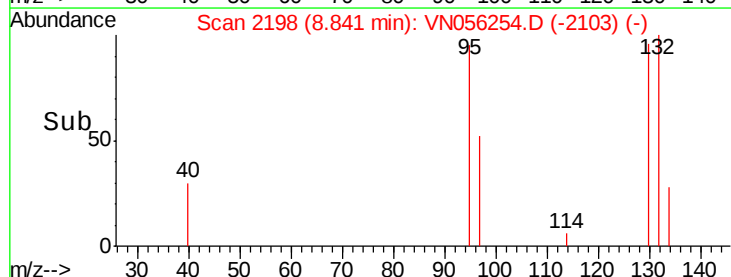
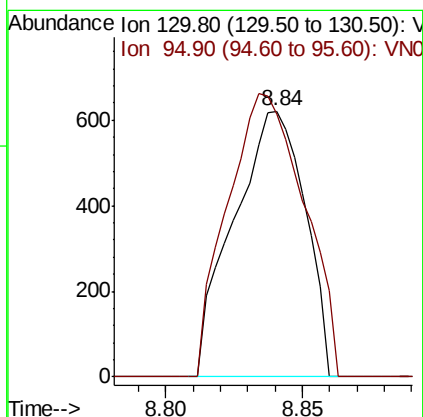
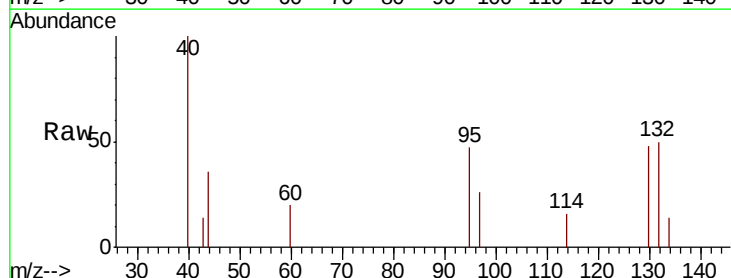
Acq: 12 Jun 2019 17:25

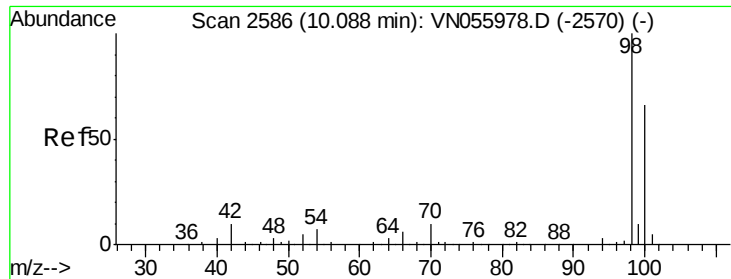
Tgt Ion: 130 Resp: 1123

Ion Ratio Lower Upper

130 100

95 98.9 0.0 188.0





#50

Toluene-d8

Concen: 52.026 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampled :

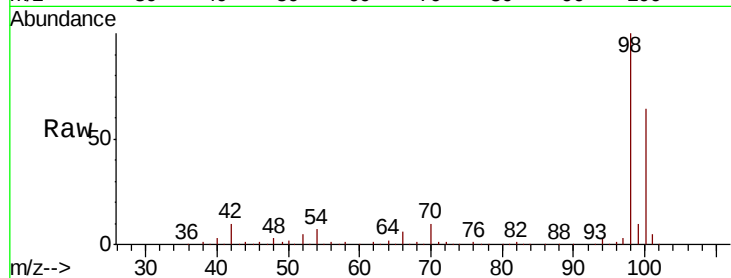
MW-3

Tot Ion: 98 Resp: 575094

Ion Ratio Lower Upper

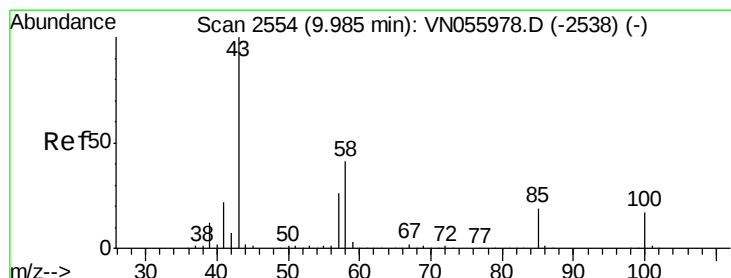
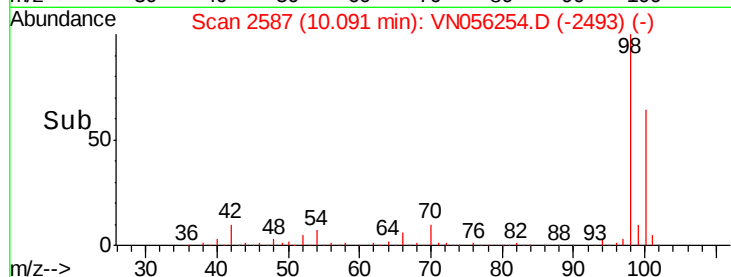
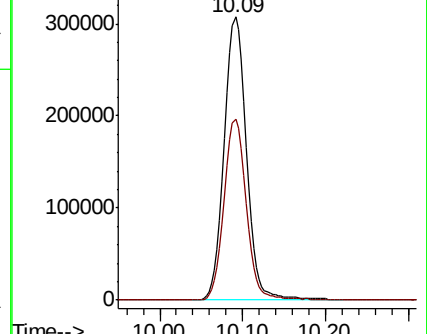
98 100

100 63.9 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: 0.602 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056254.D

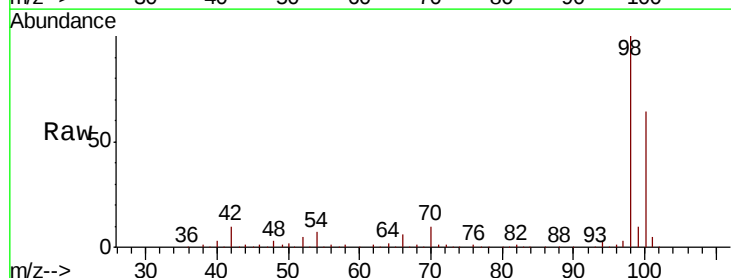
Acq: 12 Jun 2019 17:25

Tgt Ion: 43 Resp: 2187

Ion Ratio Lower Upper

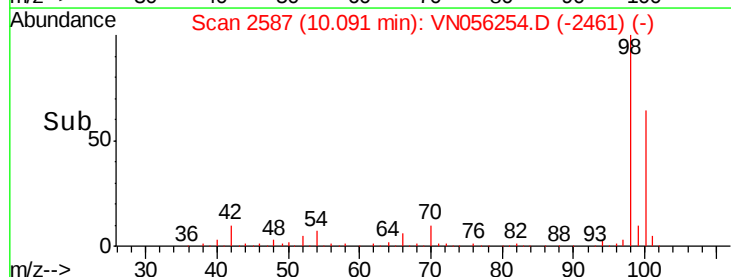
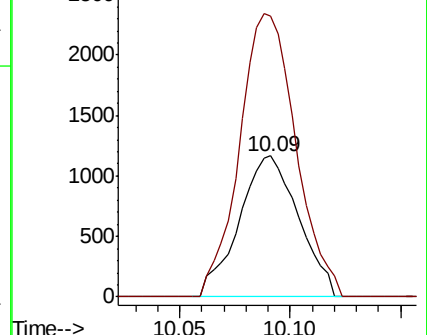
43 100

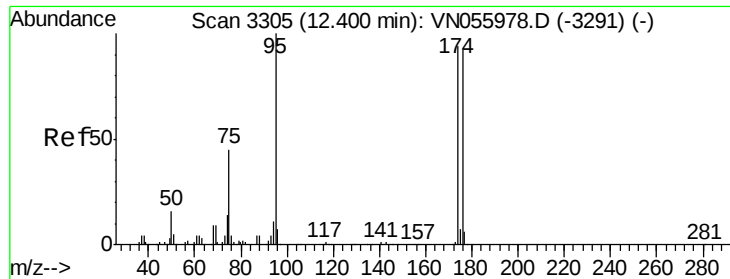
58 189.8 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.114 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampled :

MW-3

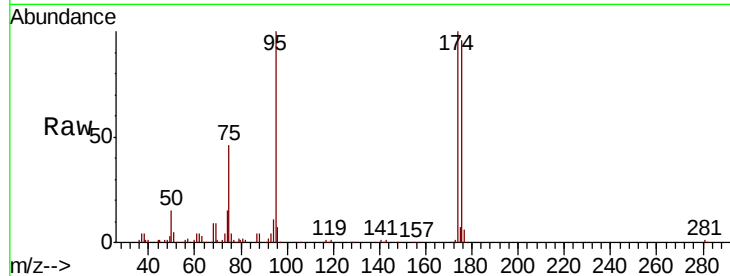
Tot Ion: 95 Resp: 188387

Ion Ratio Lower Upper

95 100

174 100.2 0.0 191.0

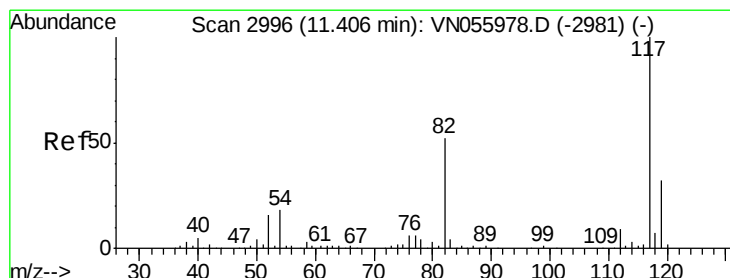
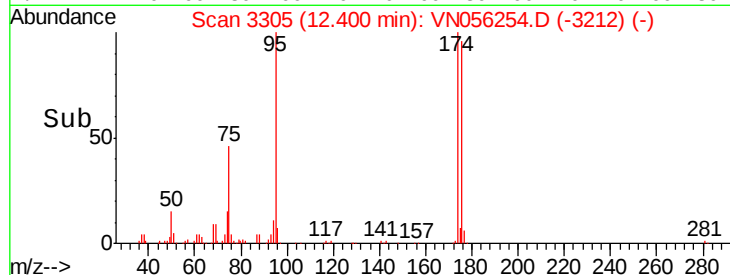
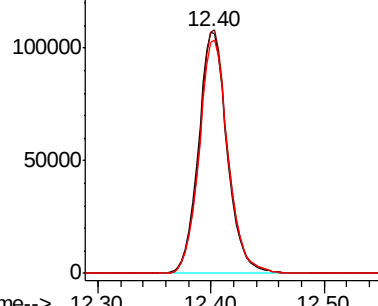
176 96.8 0.0 185.2



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

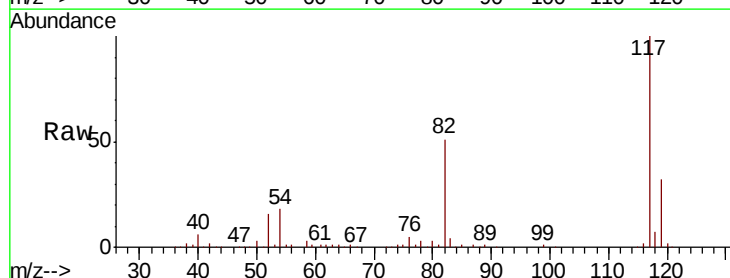
Tgt Ion: 117 Resp: 465097

Ion Ratio Lower Upper

117 100

82 51.2 41.8 62.8

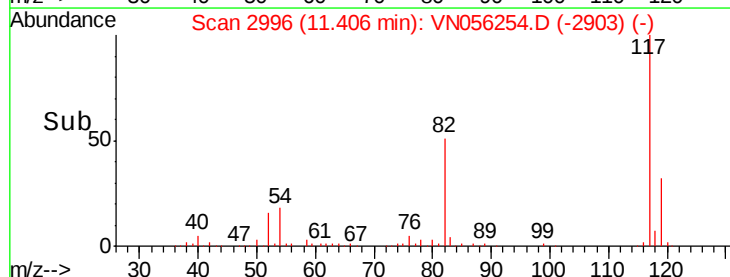
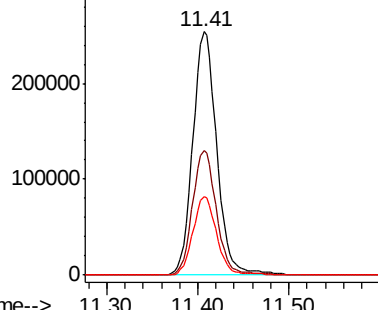
119 32.4 25.4 38.0

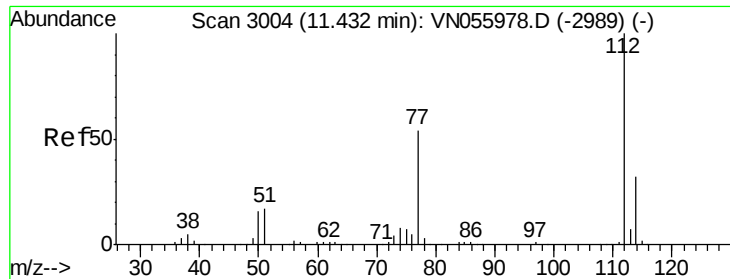


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

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

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





#65

Chlorobenzene

Concen: 0.249 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampled :

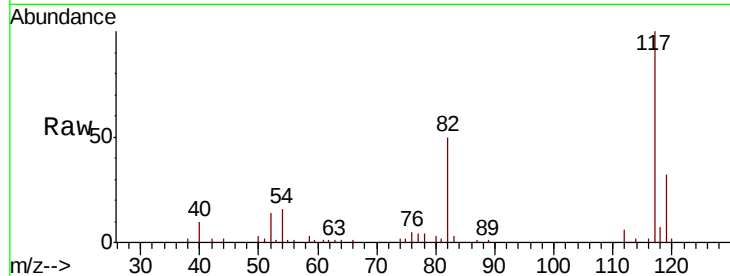
MW-3

Tot Ion:112 Resp: 2301

Ion Ratio Lower Upper

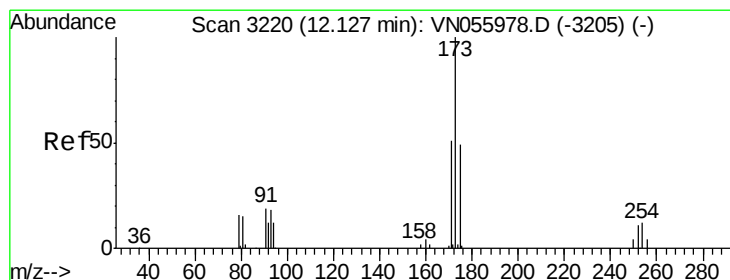
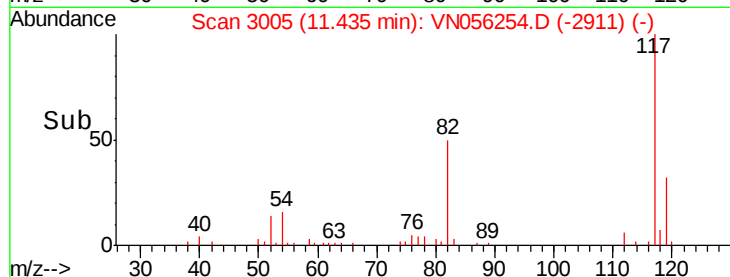
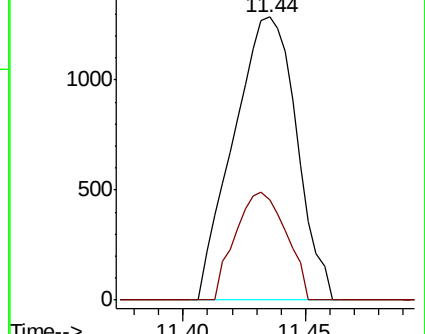
112 100

114 35.5 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 3.281 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

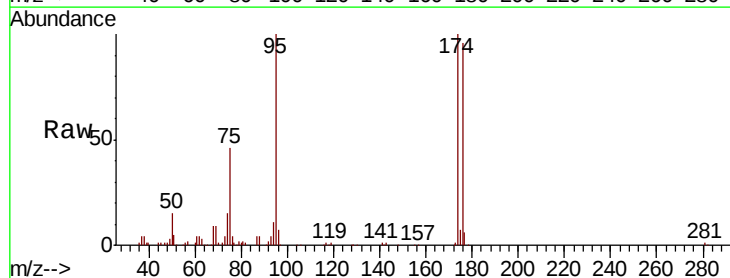
Tgt Ion:173 Resp: 1530

Ion Ratio Lower Upper

173 100

175 751.1 24.3 72.8#

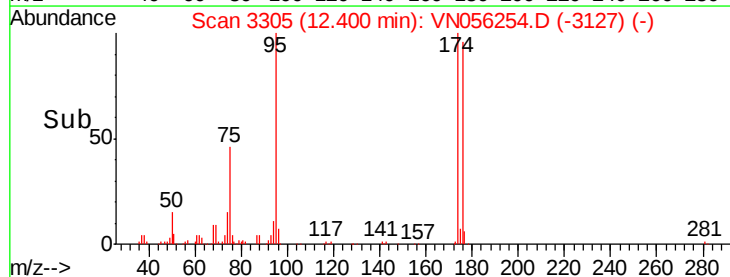
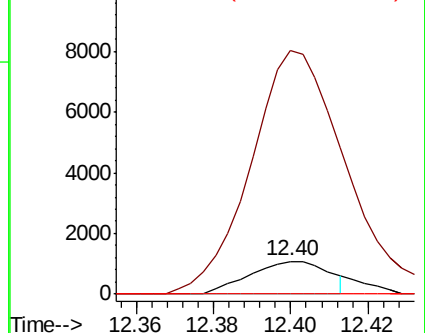
254 0.0 0.0 0.0

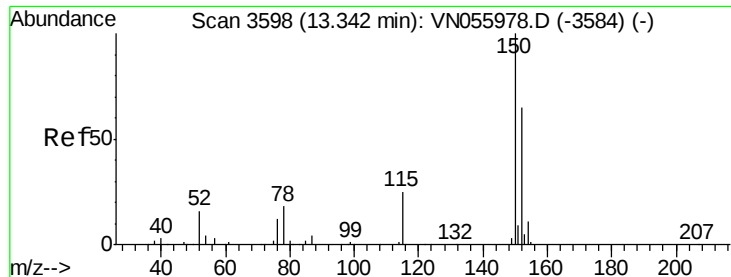


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

MW-3

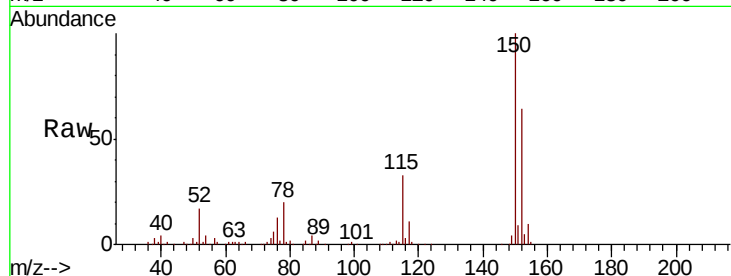
Tot Ion:152 Resp: 154934

Ion Ratio Lower Upper

152 100

115 52.5 27.0 81.0

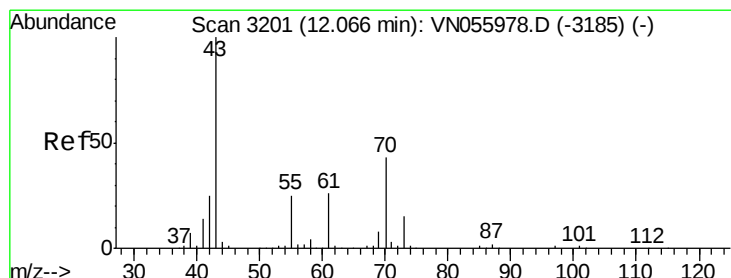
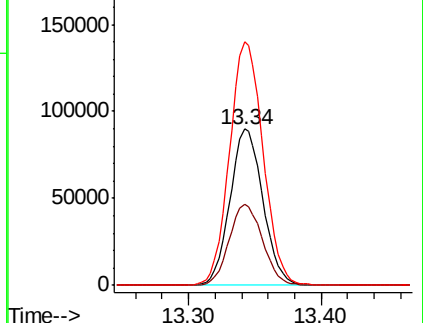
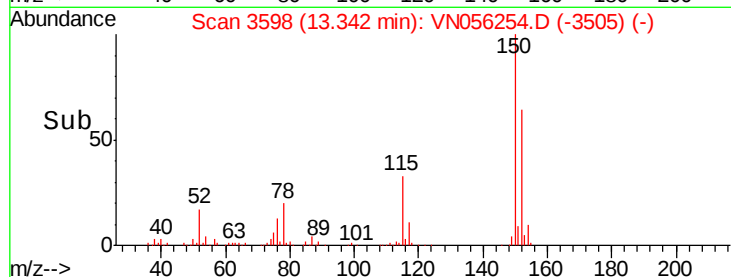
150 157.7 0.0 343.2



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-ethyl acetate

Concen: 3.754 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Tgt Ion: 43 Resp: 15505

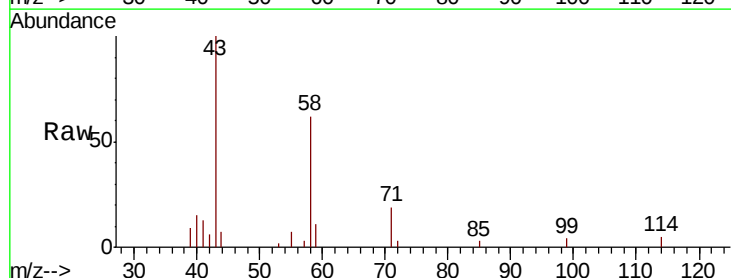
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 5.2 18.6 28.0#

61 0.0 20.0 30.0#

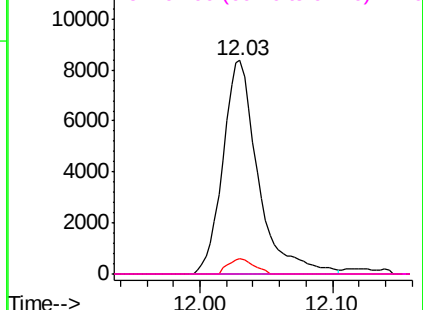
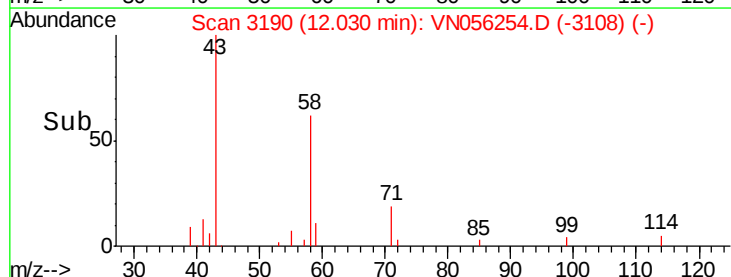


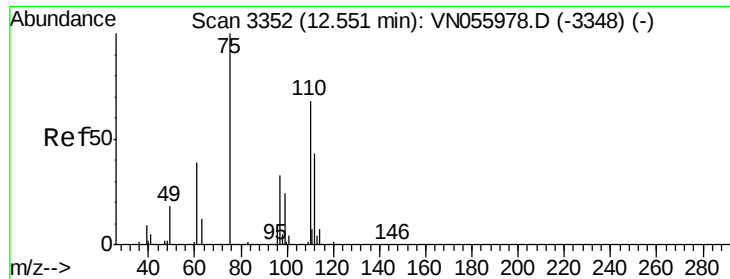
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.139 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampled :

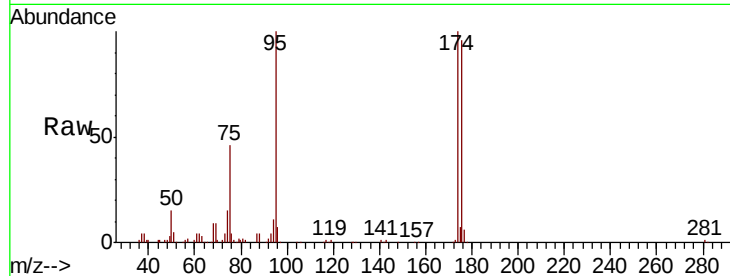
MW-3

Tot Ion: 75 Resp: 85922

Ion Ratio Lower Upper

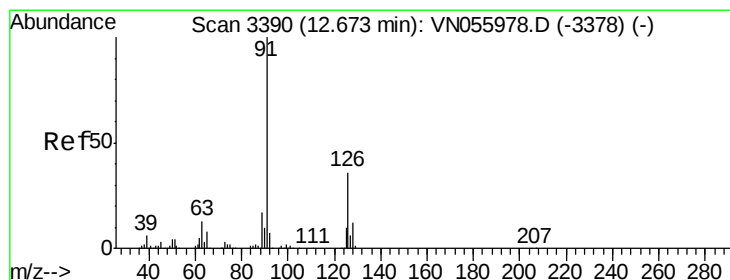
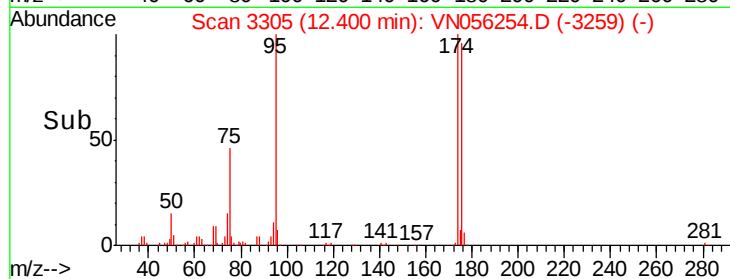
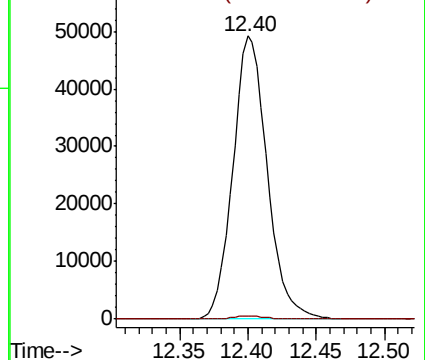
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056254.D

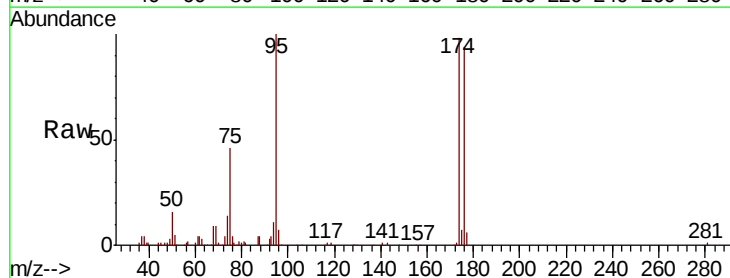
Acq: 12 Jun 2019 17:25

Tgt Ion: 91 Resp: 545

Ion Ratio Lower Upper

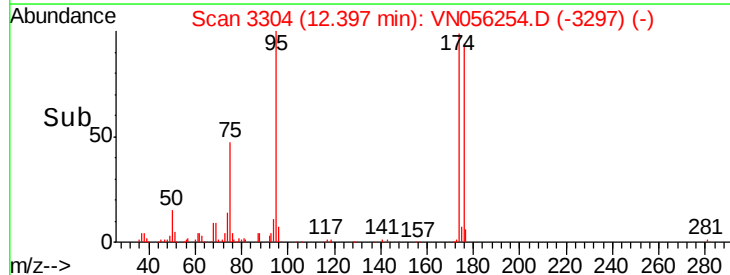
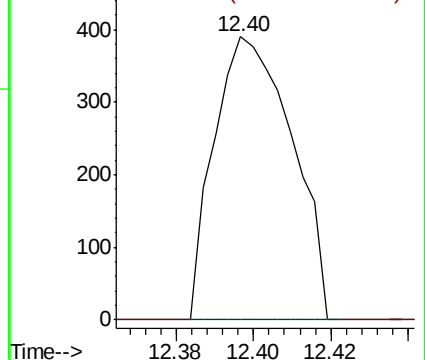
91 100

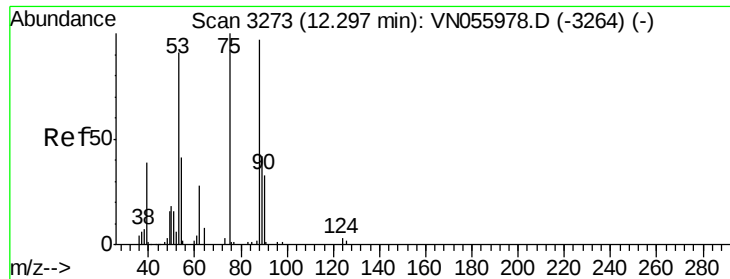
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 100.369 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

Instrument :

MSVOA_N

ClientSampleId :

MW-3

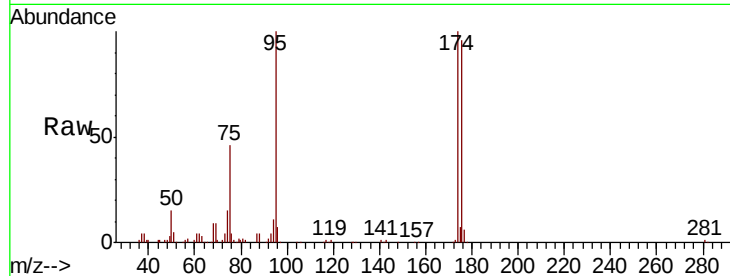
Tot Ion: 75 Resp: 85922

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

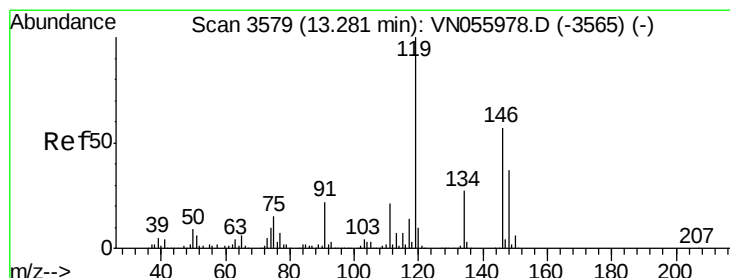
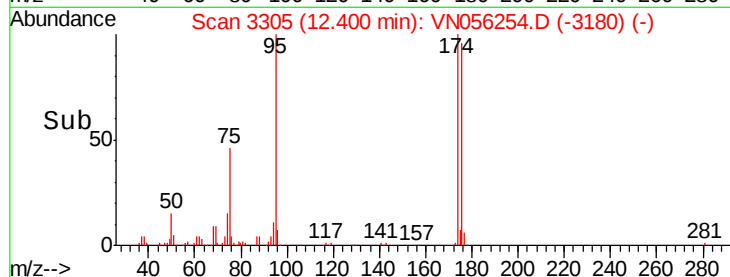
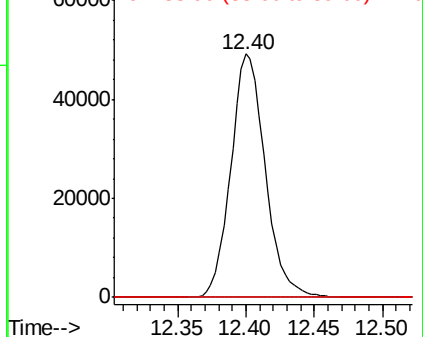
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 1.063 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056254.D

Acq: 12 Jun 2019 17:25

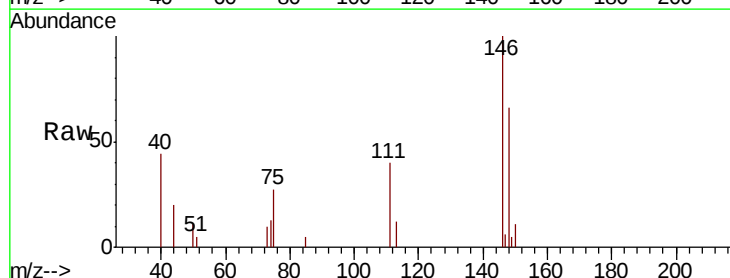
Tgt Ion: 146 Resp: 5457

Ion Ratio Lower Upper

146 100

111 36.1 18.5 55.5

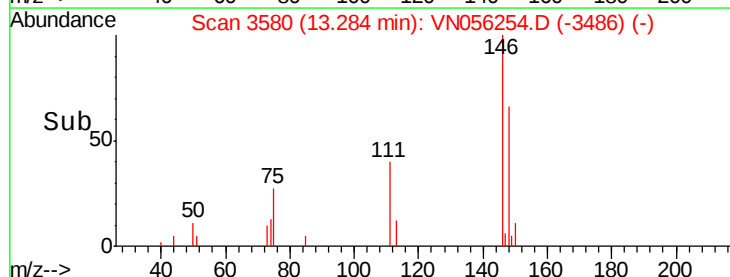
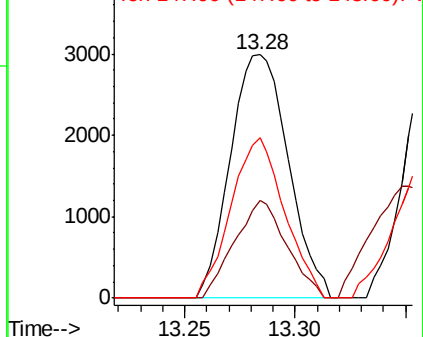
148 60.8 32.0 96.2

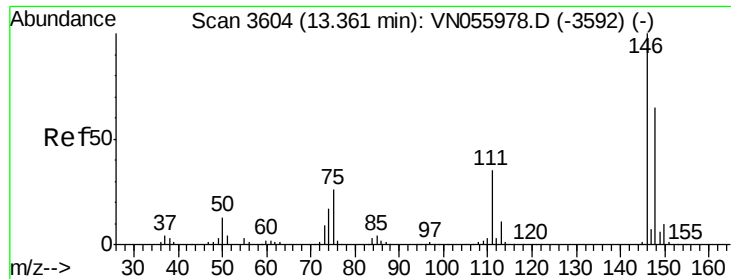


Abundance Ion 145.90 (145.60 to 146.60): VN055978.D (-3565) (-)

Ion 110.90 (110.60 to 111.60): VN055978.D (-3565) (-)

Ion 147.90 (147.60 to 148.60): VN055978.D (-3565) (-)

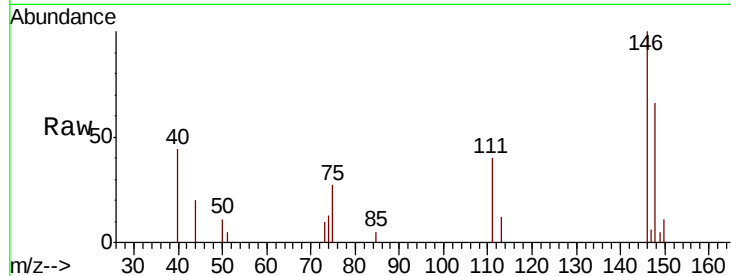




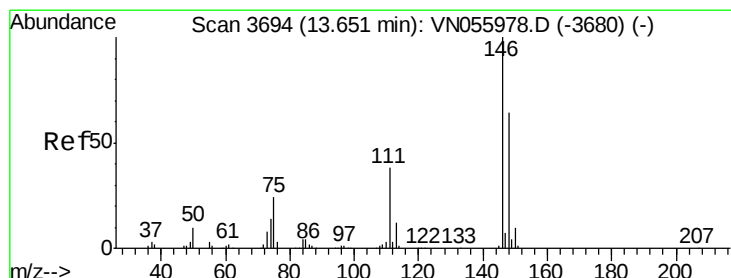
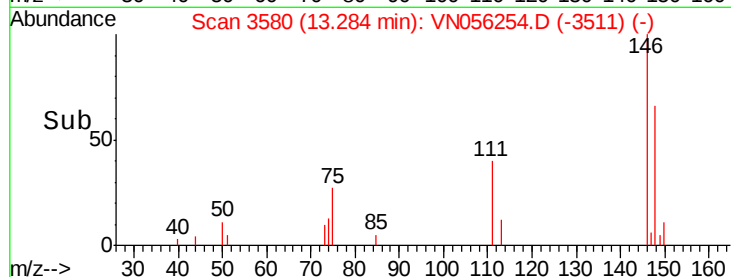
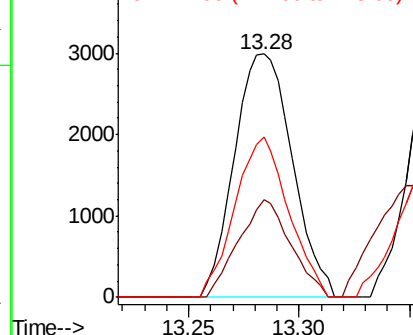
#88
 1,4-Dichlorobenzene
 Concen: 1.105 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3

Tot Ion:146 Resp: 5457
 Ion Ratio Lower Upper
 146 100
 111 36.1 18.1 54.4
 148 60.8 32.1 96.5

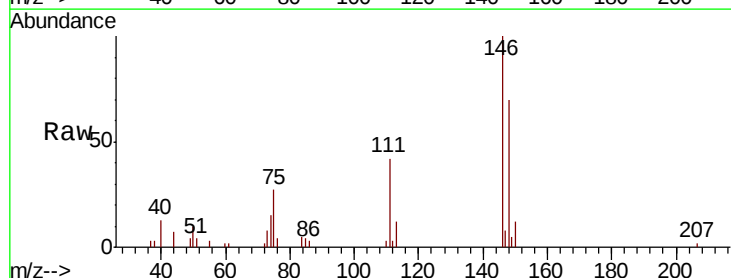


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

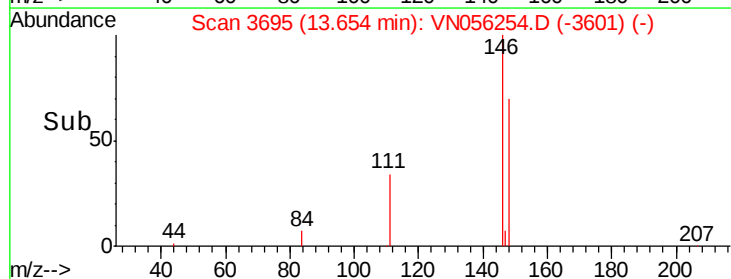
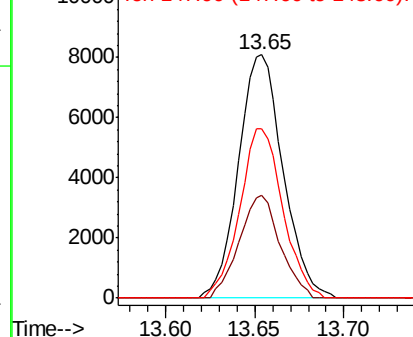


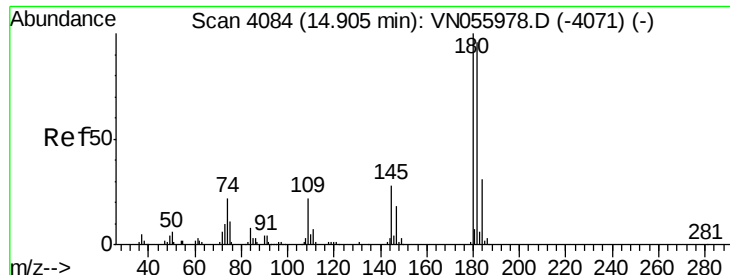
#91
 1,2-Dichlorobenzene
 Concen: 2.726 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Tgt Ion:146 Resp: 14132
 Ion Ratio Lower Upper
 146 100
 111 38.9 19.1 57.5
 148 67.3 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

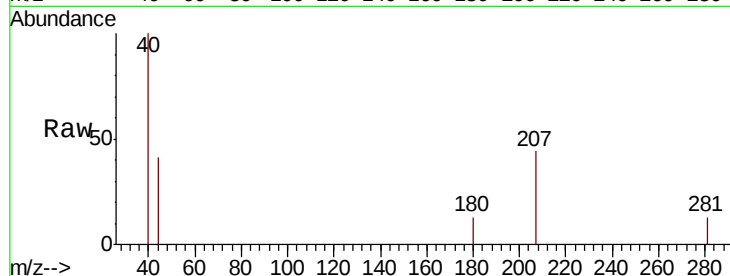




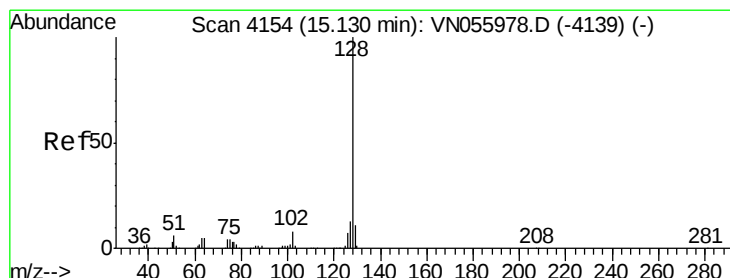
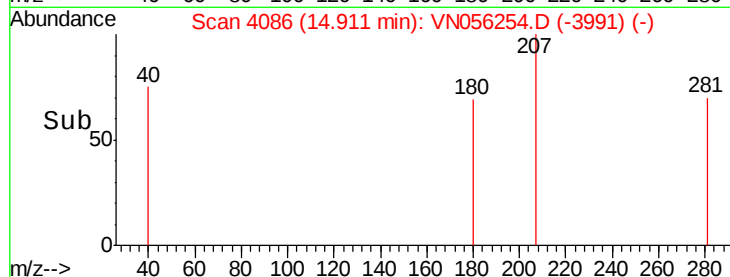
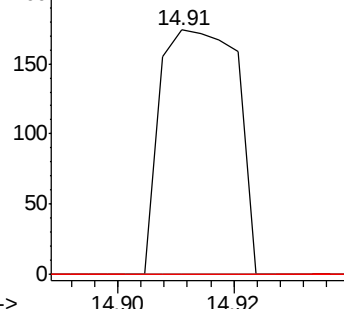
#93
 1,2,4-Trichlorobenzene
 Concen: 4.321 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3

Tot Ion:180 Resp: 160
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.3 144.9#
 145 0.0 14.0 41.9#

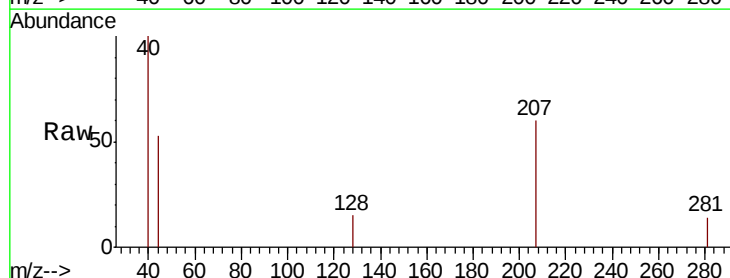


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.863 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN056254.D
 Acq: 12 Jun 2019 17:25

Tgt Ion:128 Resp: 93
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 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

