

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054824.D
 Acq On : 31 Mar 2019 1:44
 Operator : JC/SP
 Sample : K2164-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2R

Quant Time: Mar 31 04:43:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	521243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	852709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	695299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246026	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	347974	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
35) Dibromofluoromethane	7.59	113	273024	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	
50) Toluene-d8	10.09	98	1007095	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
62) 4-Bromofluorobenzene	12.40	95	298811	42.51	ug/l	0.00
Spiked Amount			Recovery	=	85.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	367	Below Cal		88
11) Tert butyl alcohol	4.83	59	193408	528.302	ug/l	98
13) Acrolein	3.61	56	172	0.526	ug/l	89
15) Acrylonitrile	5.06	53	7876	3.871	ug/l #	15
16) Acetone	3.81	43	465	0.278	ug/l	91
18) Methyl Acetate	4.34	43	1355	Below Cal	#	70
19) Methyl tert-butyl Ether	5.06	73	581113	40.546	ug/l	94
29) Tetrahydrofuran	7.23	42	736	0.428	ug/l #	30
31) Cyclohexane	7.66	56	10787	Below Cal	#	17
36) 1,1-Dichloropropene	7.67	75	40197	5.059	ug/l #	47
38) Carbon Tetrachloride	7.67	117	48255	6.253	ug/l #	17
43) Isopropyl Acetate	8.21	43	178647	18.869	ug/l #	60
47) Bromodichloromethane	9.52	83	3708	0.489	ug/l #	33
48) Methyl methacrylate	9.22	41	16540	3.223	ug/l #	34
58) 2-Chloroethyl Vinyl ether	9.66	63	688	10.586	ug/l #	44
59) 2-Hexanone	10.61	43	7562	2.219	ug/l	63
75) 1,1,2,2-Tetrachloroethane	12.40	83	307	Below Cal	#	32
76) 1,2,3-Trichloropropane	12.40	75	153124	35.827	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153124	139.356	ug/l #	11
83) tert-Butylbenzene	12.99	119	1372	Below Cal		74
85) sec-Butylbenzene	13.17	105	19989	1.115	ug/l	81

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

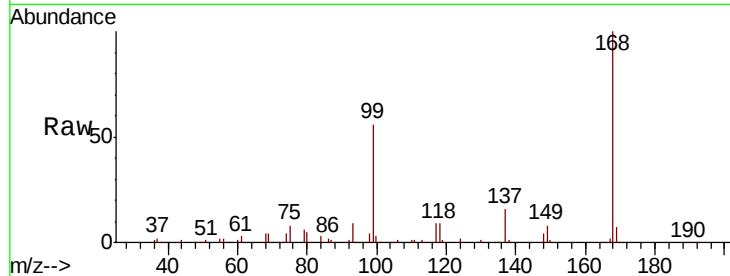
MW-2R

Tot Ion:168 Resp: 521243

Ion Ratio Lower Upper

168 100

99 55.8 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

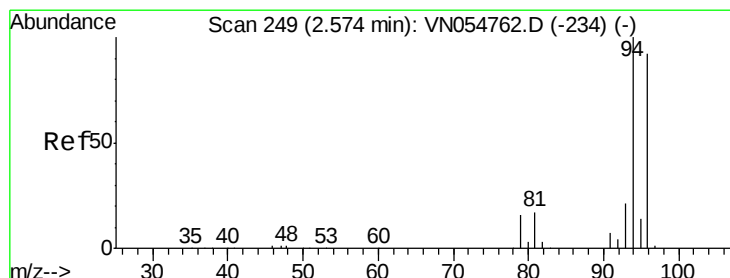
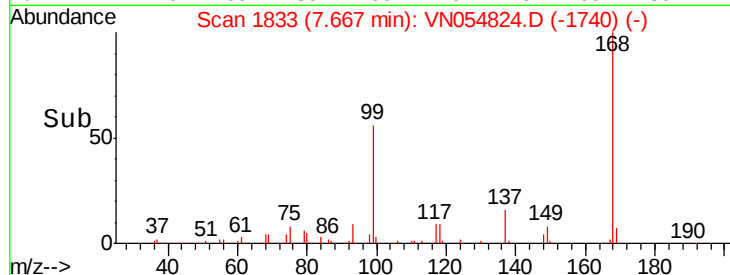
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054824.D

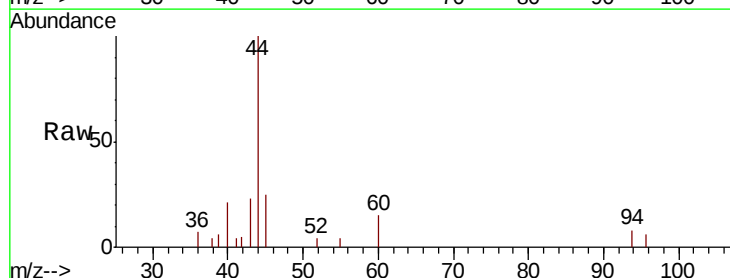
Acq: 31 Mar 2019 1:44

Tgt Ion: 94 Resp: 367

Ion Ratio Lower Upper

94 100

96 84.6 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

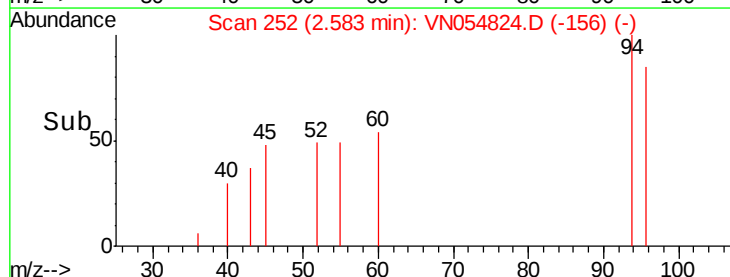
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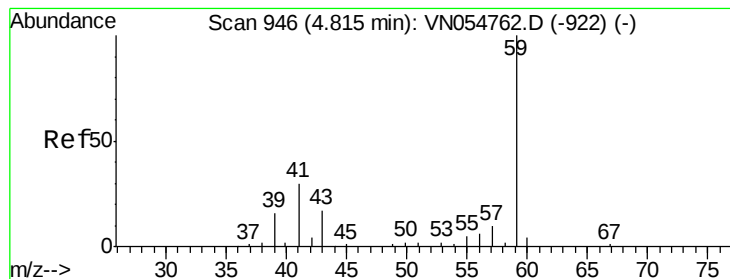
200

100

0

Time-->



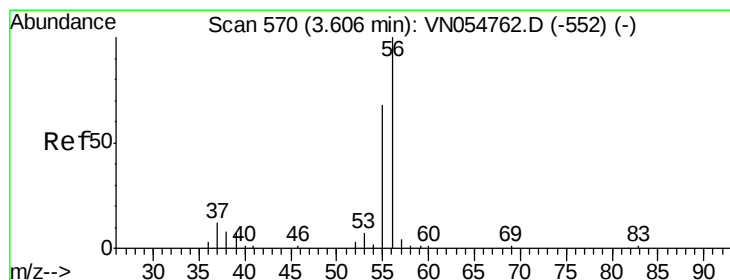
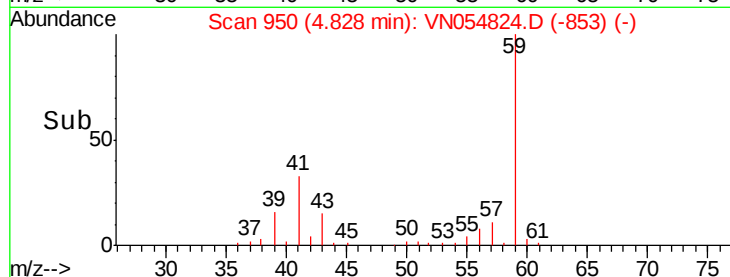
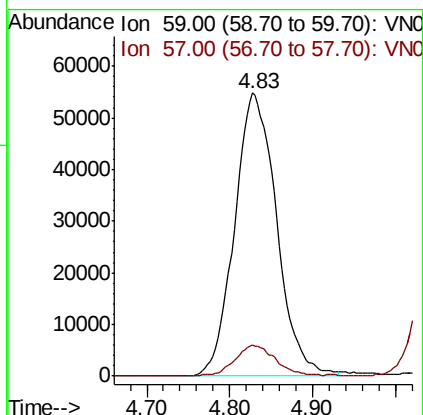
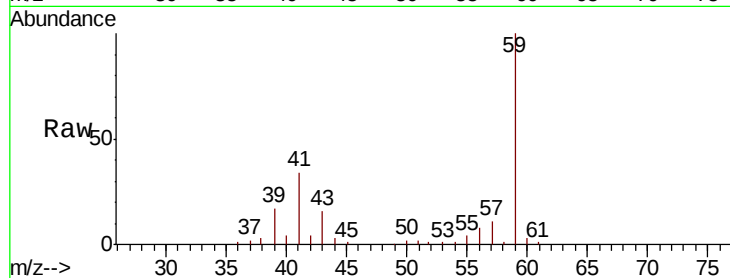


#11

Tert butyl alcohol
 Concen: 528.302 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2R

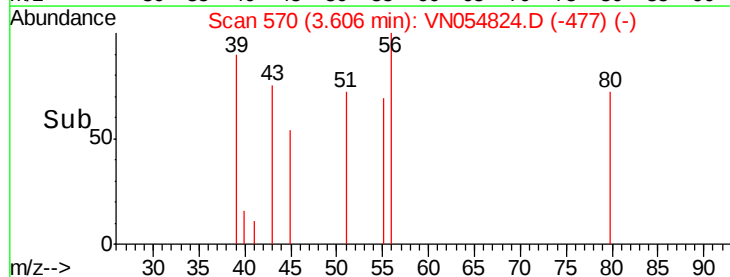
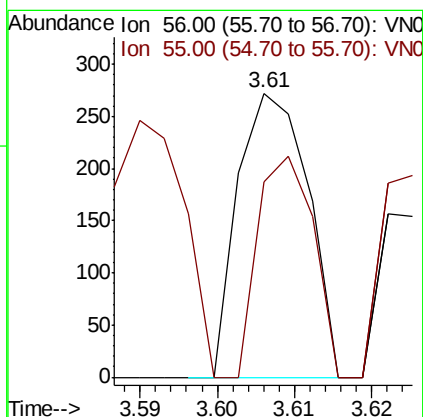
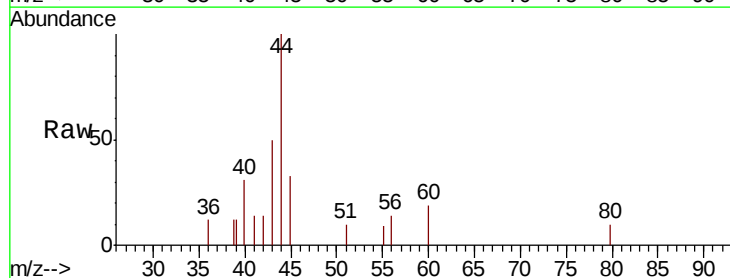
Tot Ion: 59 Resp: 193408
 Ion Ratio Lower Upper
 59 100
 57 10.6 9.0 13.6

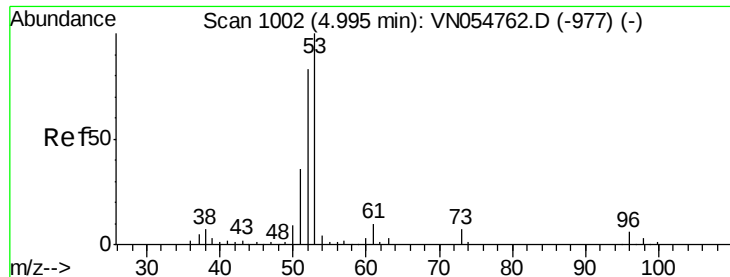


#13

Acrolein
 Concen: 0.526 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

Tgt Ion: 56 Resp: 172
 Ion Ratio Lower Upper
 56 100
 55 62.2 56.7 85.1





#15

Acrylonitrile

Concen: 3.871 ug/l

RT: 5.06 min Scan# 1023

Delta R.T. 0.07 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

MW-2R

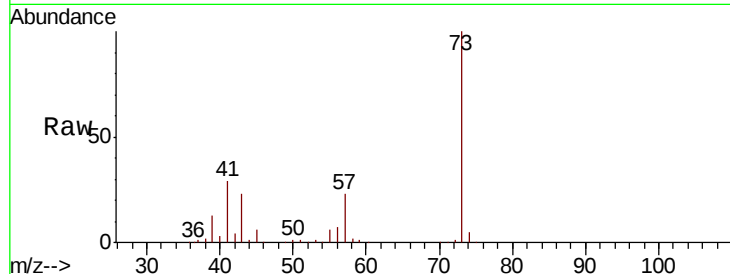
Tot Ion: 53 Resp: 7876

Ion Ratio Lower Upper

53 100

52 2.7 66.4 99.6#

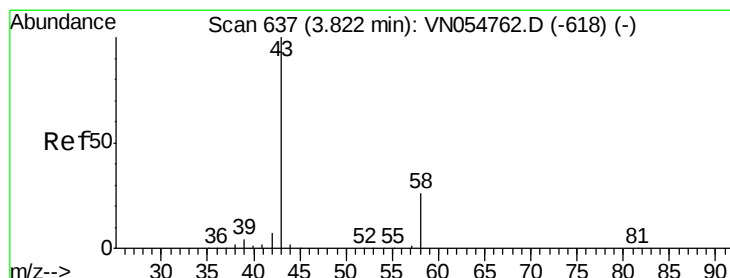
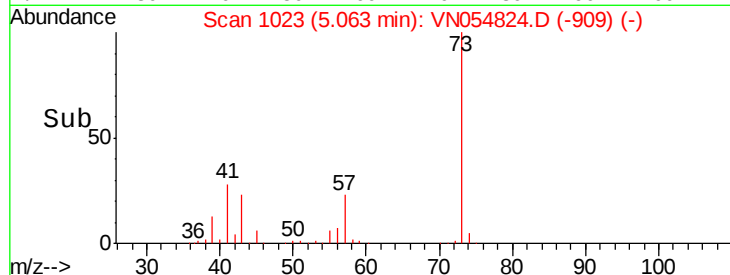
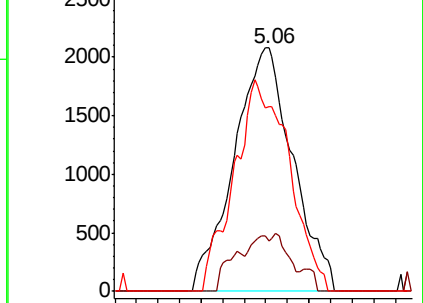
51 81.3 29.6 44.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 0.278 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN054824.D

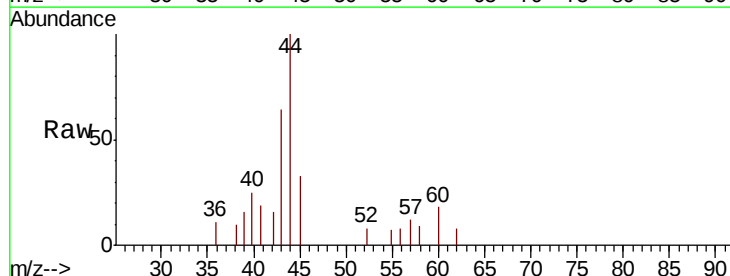
Acq: 31 Mar 2019 1:44

Tgt Ion: 43 Resp: 465

Ion Ratio Lower Upper

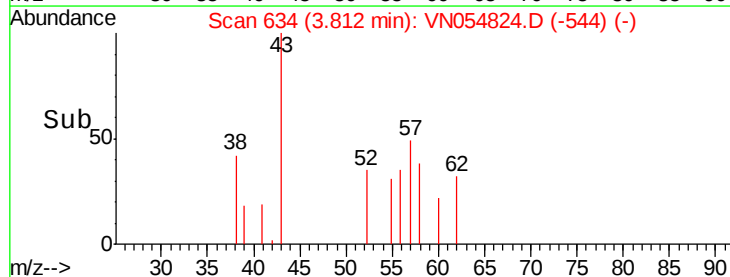
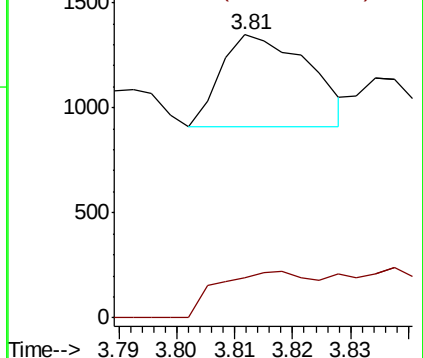
43 100

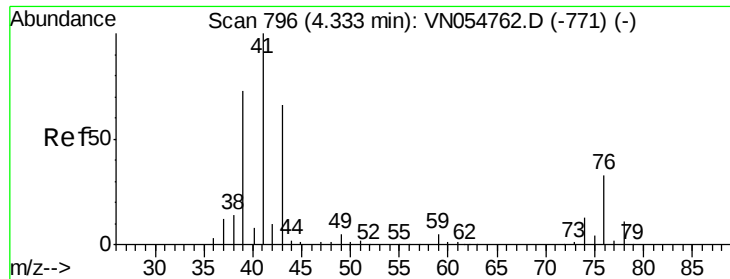
58 43.0 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

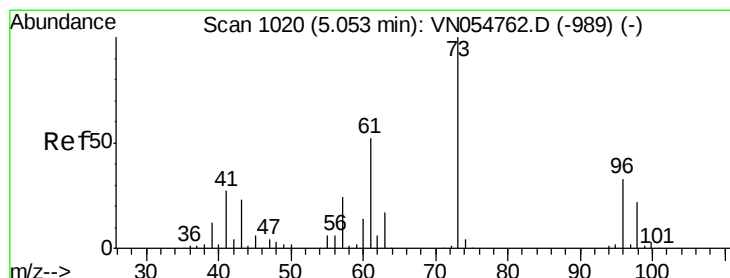
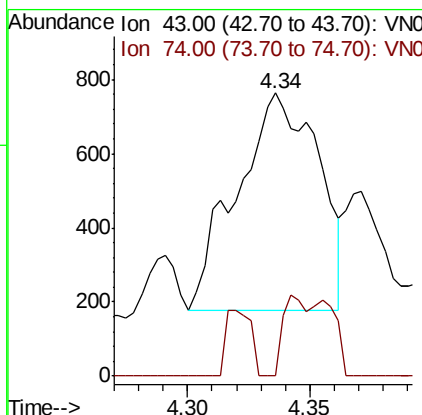
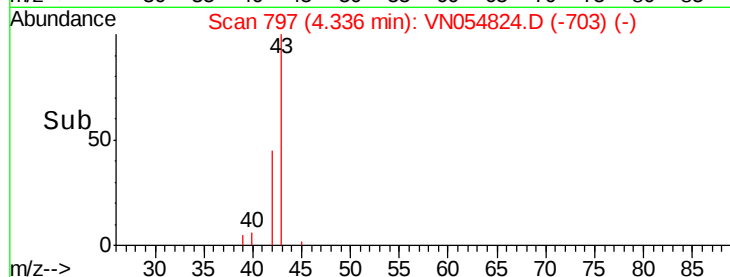
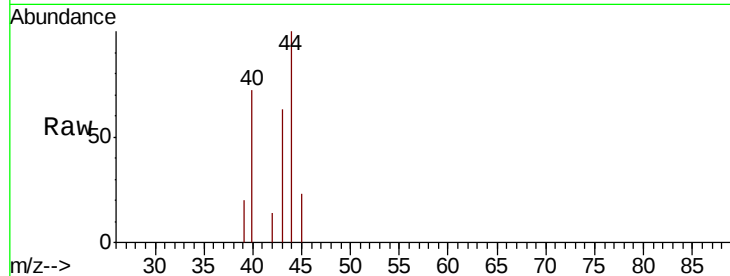




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.00 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

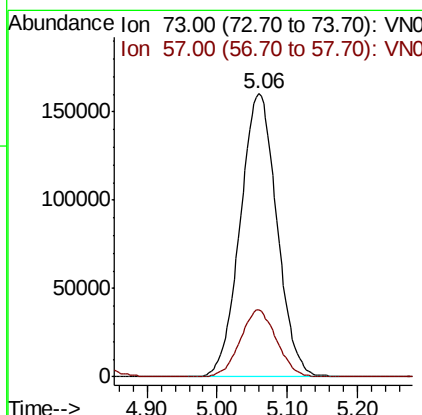
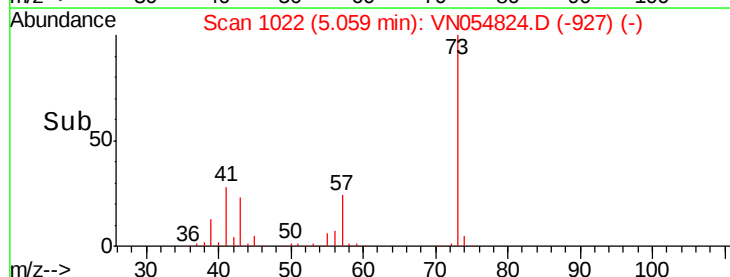
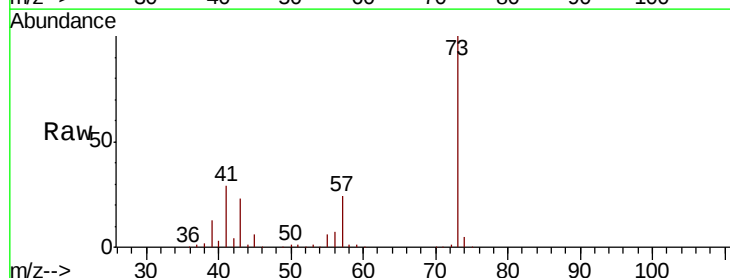
Instrument :
MSVOA_N
ClientSampled :
MW-2R

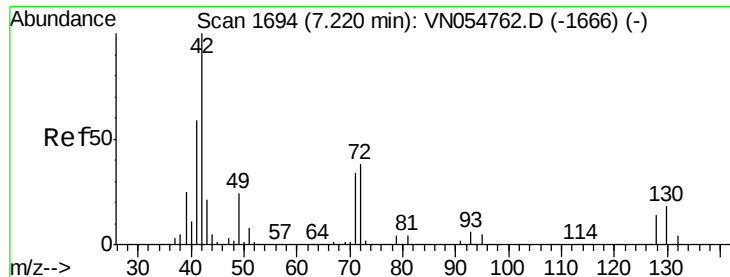
Tot Ion: 43 Resp: 1355
Ion Ratio Lower Upper
43 100
74 10.8 20.8 31.2#



#19
Methyl tert-butyl Ether
Concen: 40.546 ug/l
RT: 5.06 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

Tgt Ion: 73 Resp: 581113
Ion Ratio Lower Upper
73 100
57 23.7 16.8 25.2





#29

Tetrahydrofuran

Concen: 0.428 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

MW-2R

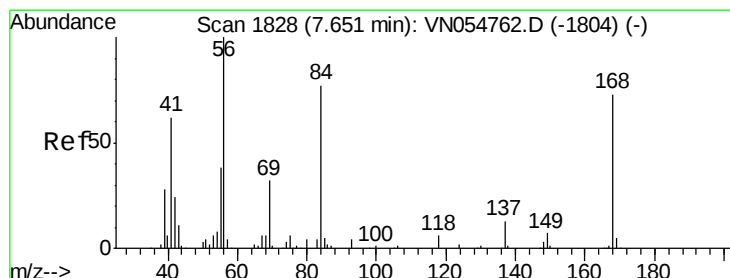
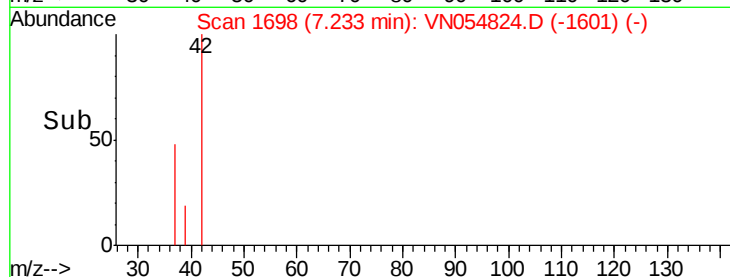
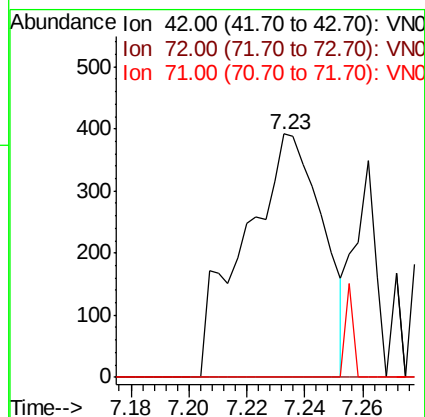
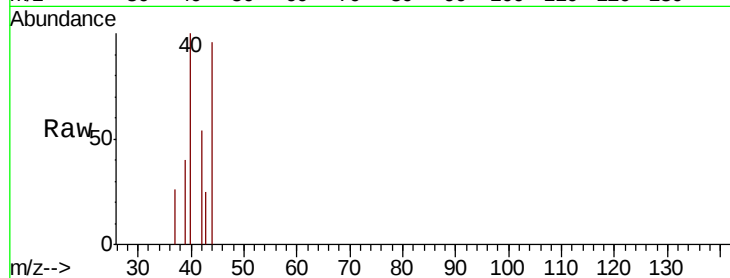
Tot Ion: 42 Resp: 736

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

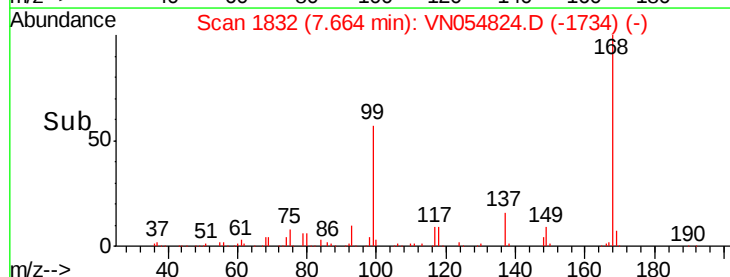
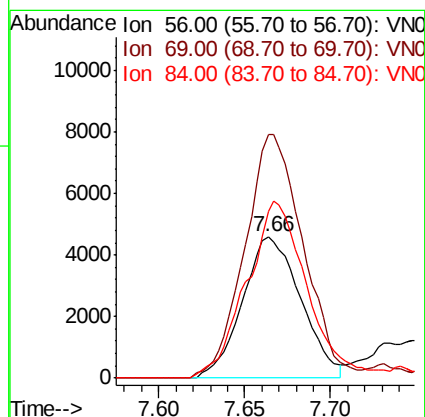
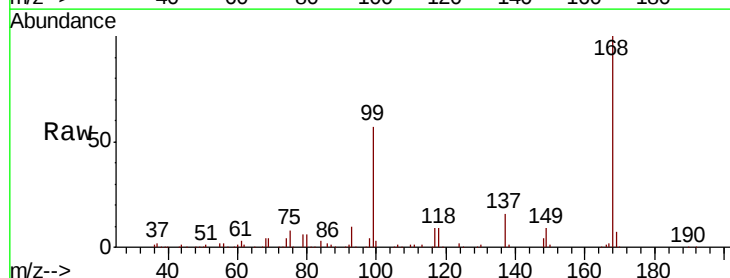
Tgt Ion: 56 Resp: 10787

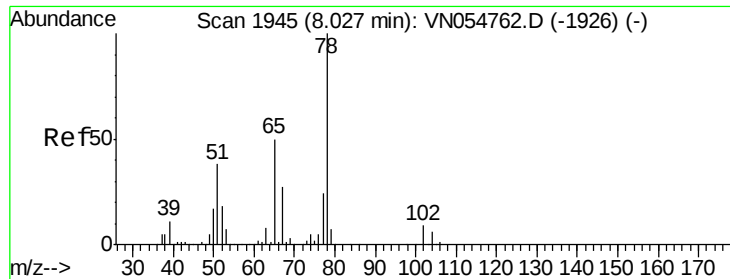
Ion Ratio Lower Upper

56 100

69 171.7 27.8 41.6#

84 117.6 74.6 111.8#

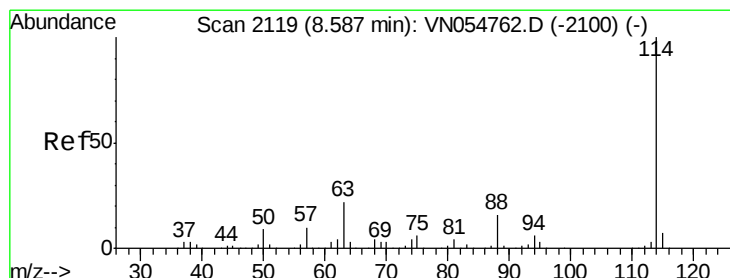
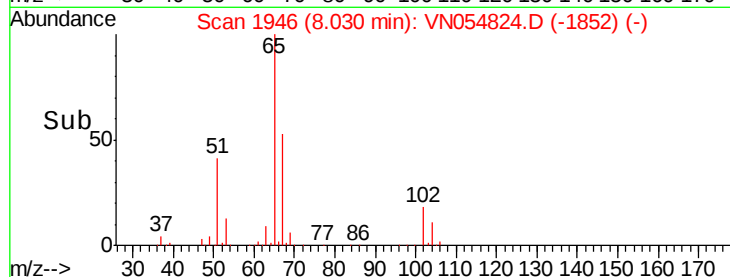
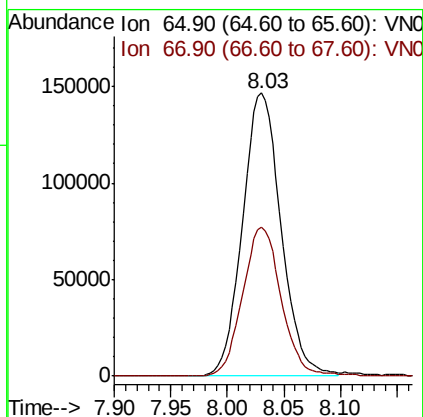
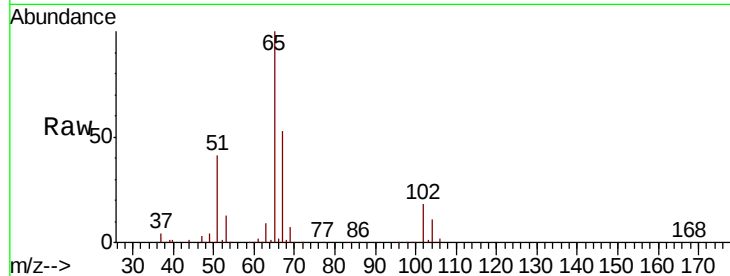




#33
 1,2-Dichloroethane-d4
 Concen: 49.523 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

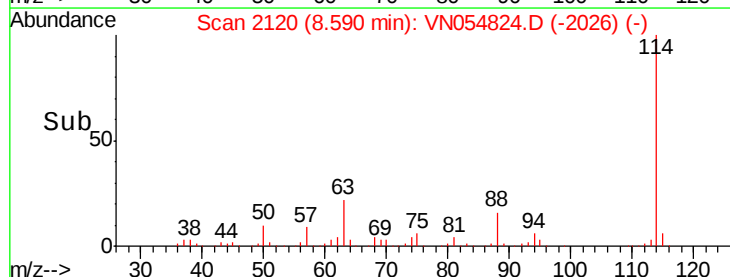
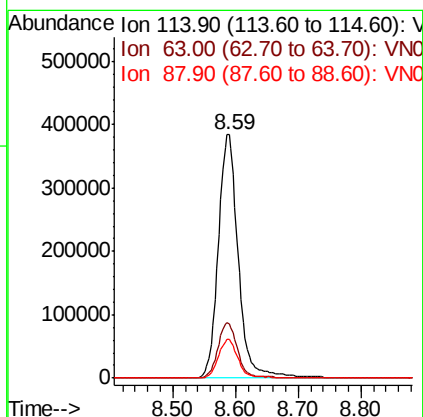
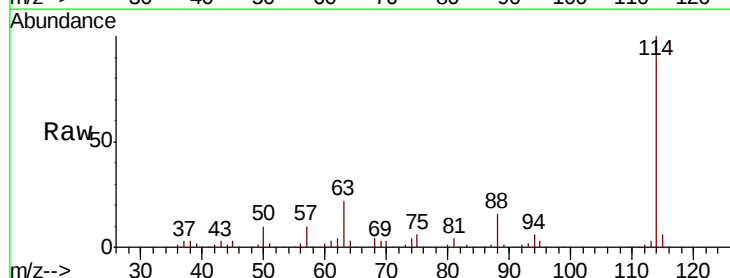
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2R

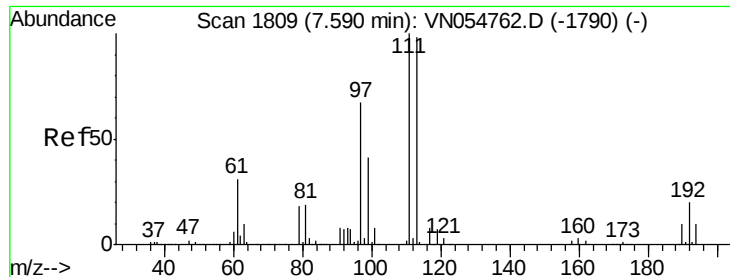
Tot Ion: 65 Resp: 347974
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

Tgt Ion: 114 Resp: 852709
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 35.2
 88 16.0 0.0 30.2

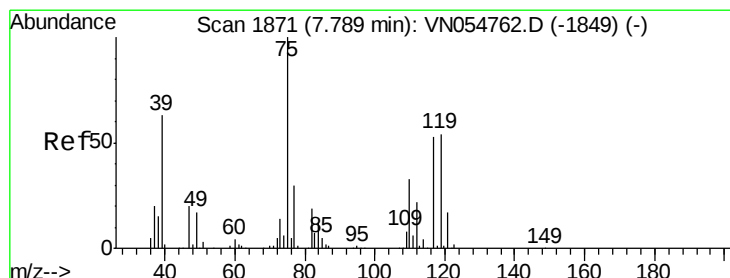
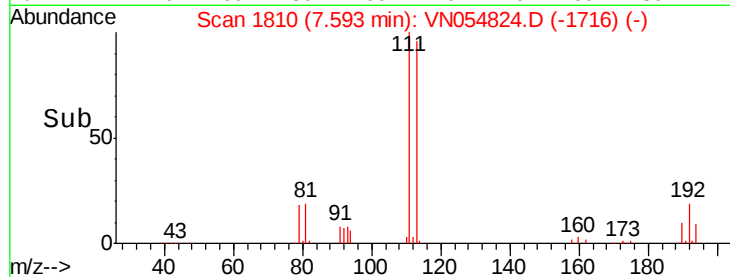
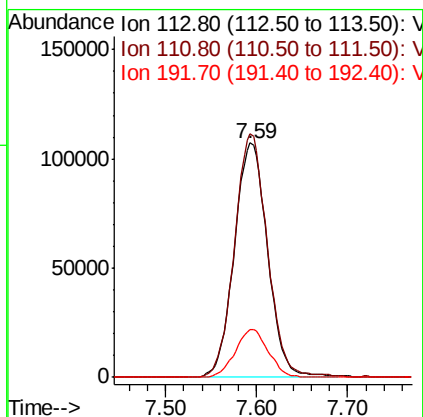
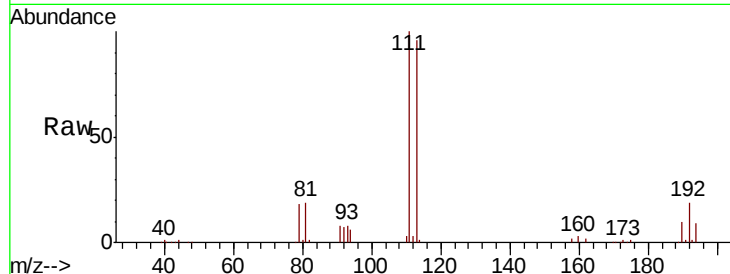




#35
 Dibromofluoromethane
 Concen: 48.026 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

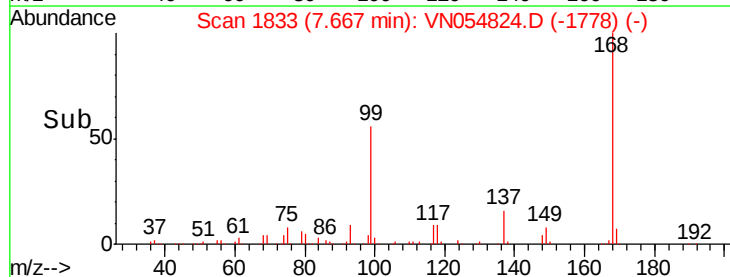
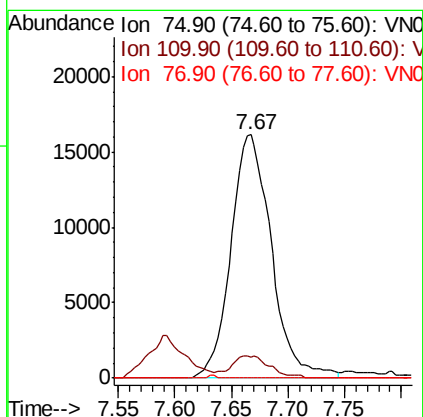
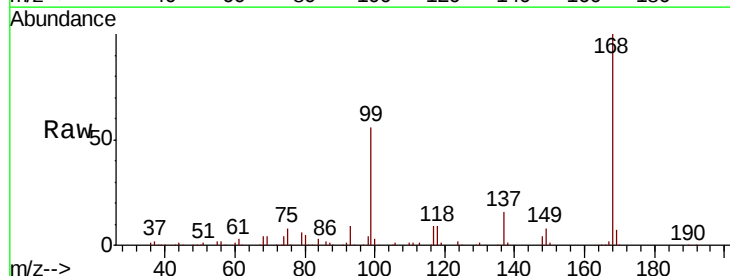
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2R

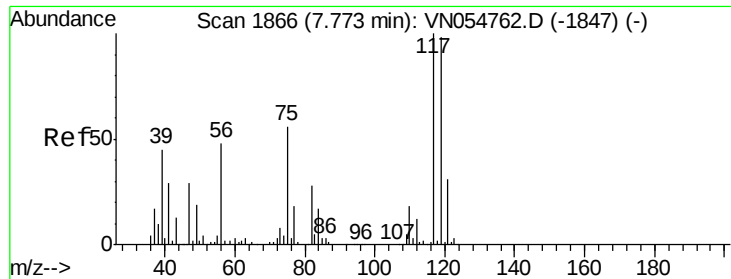
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	20.2	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.059 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054824.D
 Acq: 31 Mar 2019 1:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.253 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

MW-2R

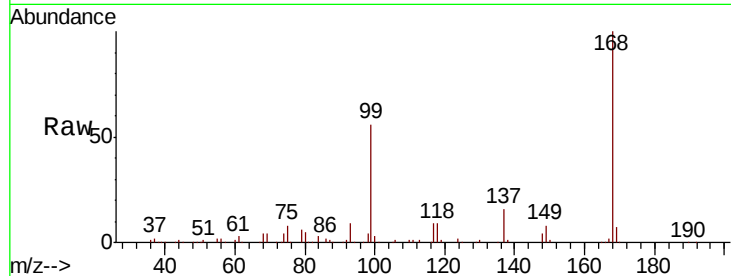
Tot Ion:117 Resp: 48255

Ion Ratio Lower Upper

117 100

119 5.7 76.3 114.5#

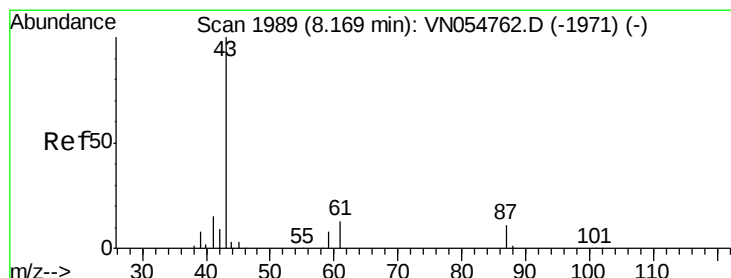
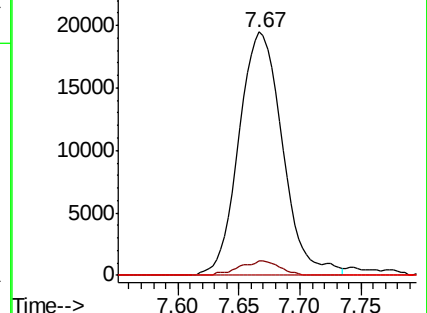
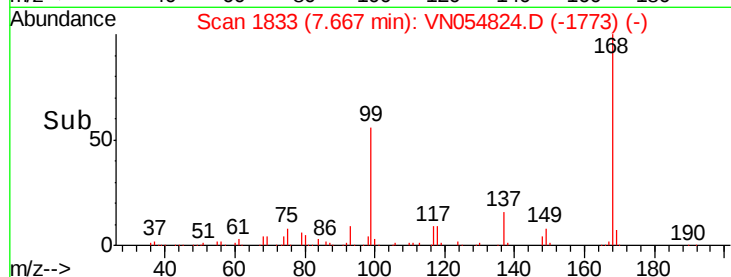
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 18.869 ug/l

RT: 8.21 min Scan# 2001

Delta R.T. 0.04 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

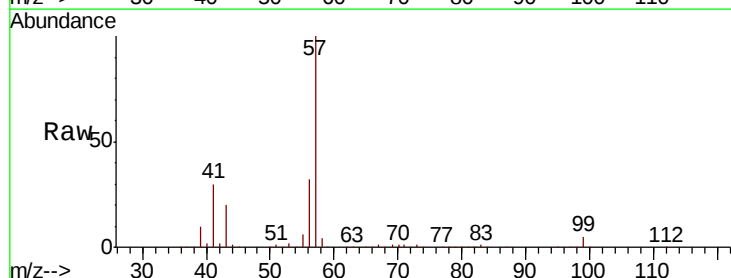
Tgt Ion: 43 Resp: 178647

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

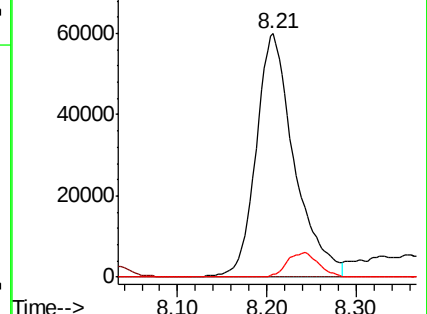
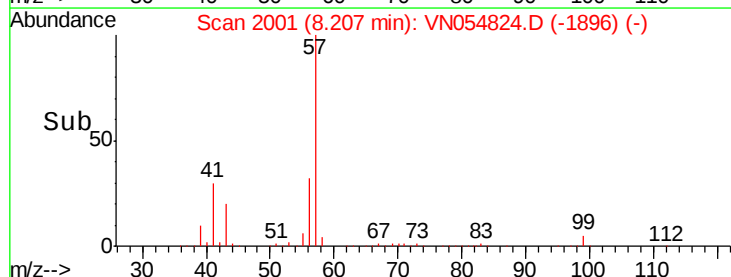
87 0.0 12.0 18.0#

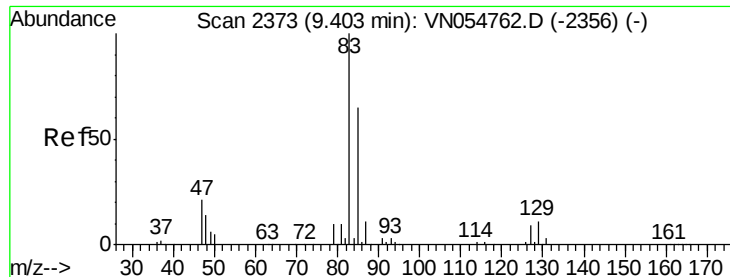


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.489 ug/l

RT: 9.52 min Scan# 2408

Delta R.T. 0.11 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampleId :

MW-2R

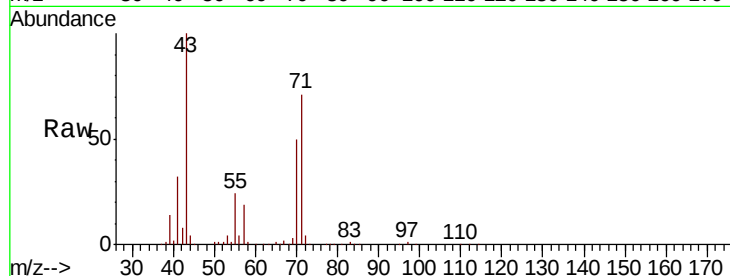
Tot Ion: 83 Resp: 3708

Ion Ratio Lower Upper

83 100

85 8.3 52.8 79.2#

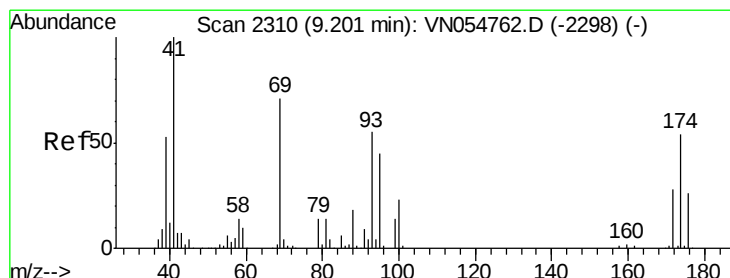
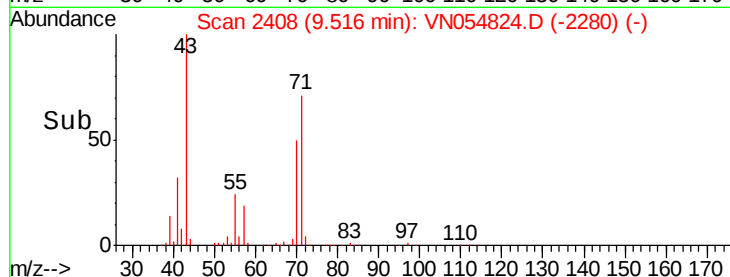
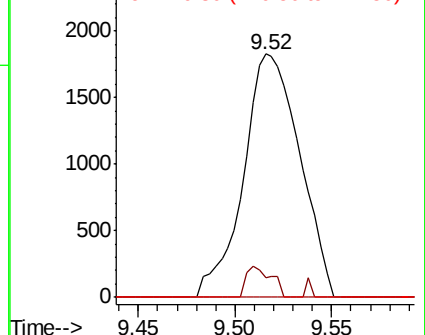
127 0.0 7.4 11.2#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 3.223 ug/l

RT: 9.22 min Scan# 2316

Delta R.T. 0.02 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

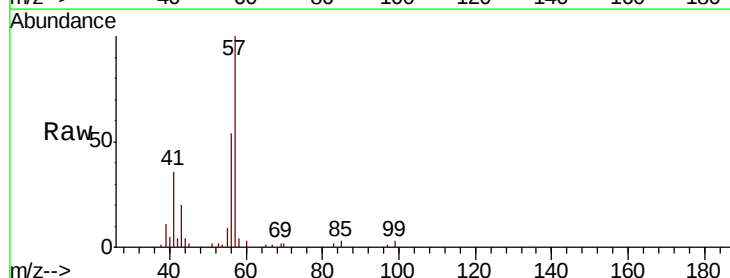
Tgt Ion: 41 Resp: 16540

Ion Ratio Lower Upper

41 100

69 4.6 72.6 108.8#

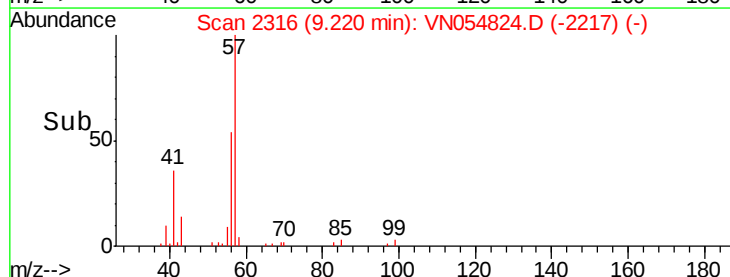
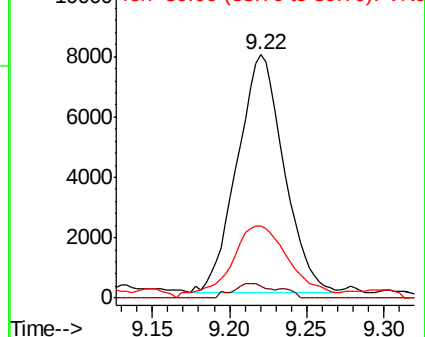
39 37.9 47.5 71.3#

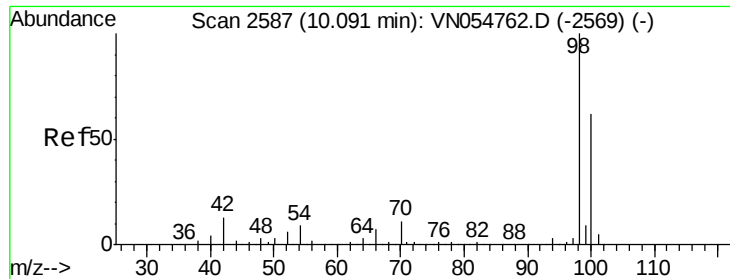


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 47.650 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

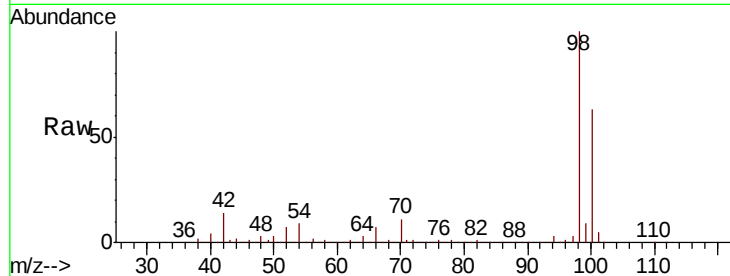
MW-2R

Tot Ion: 98 Resp: 1007095

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

600000

500000

400000

300000

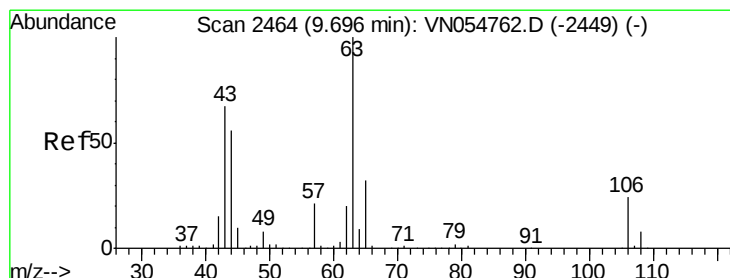
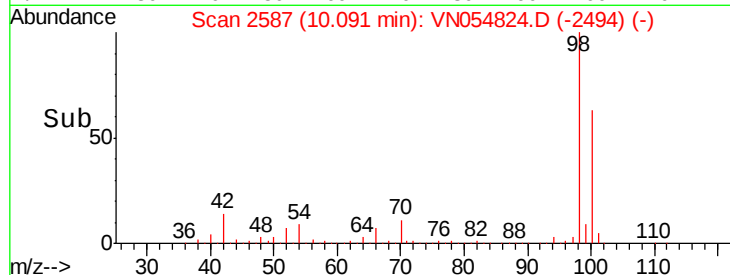
200000

100000

0

Time-->

10.00 10.20



#58

2-Chloroethyl Vinyl ether

Concen: 10.586 ug/l

RT: 9.66 min Scan# 2452

Delta R.T. -0.04 min

Lab File: VN054824.D

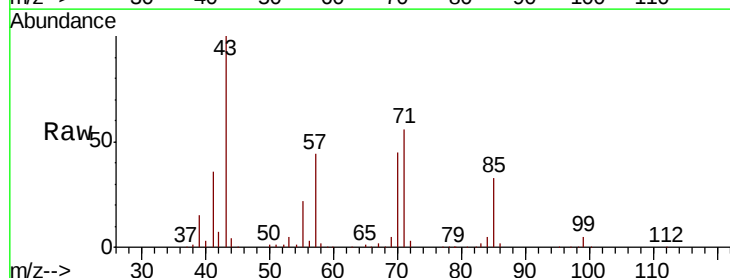
Acq: 31 Mar 2019 1:44

Tgt Ion: 63 Resp: 688

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054762.D (-2449) (-)

Ion 105.90 (105.60 to 106.60): VN054762.D (-2449) (-)

9.66

400

300

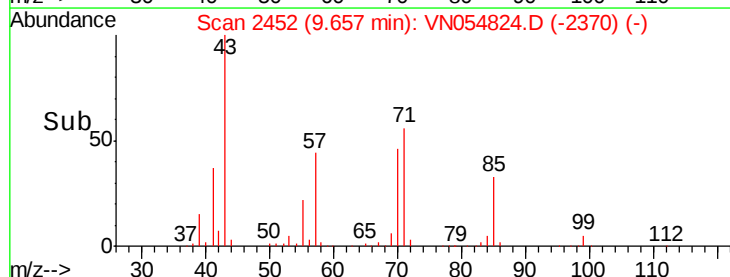
200

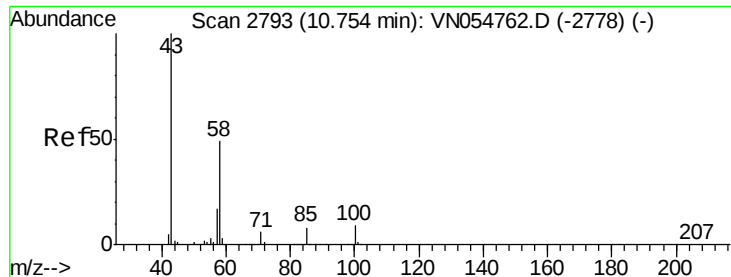
100

0

Time-->

9.60 9.62 9.64 9.66 9.68





#59

2-Hexanone

Concen: 2.219 ug/l

RT: 10.61 min Scan# 2748

Delta R.T. -0.14 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampleId :

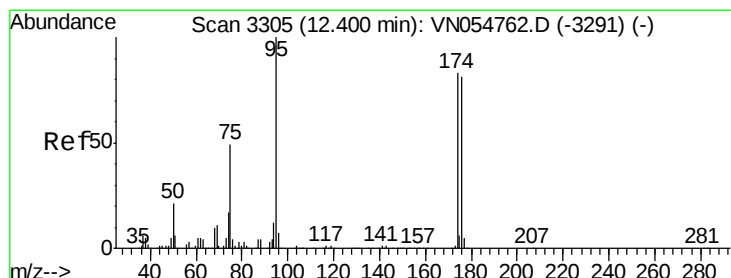
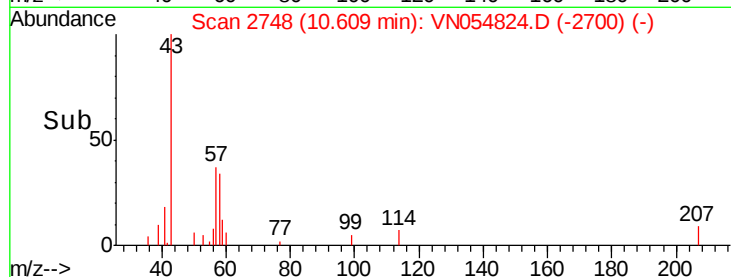
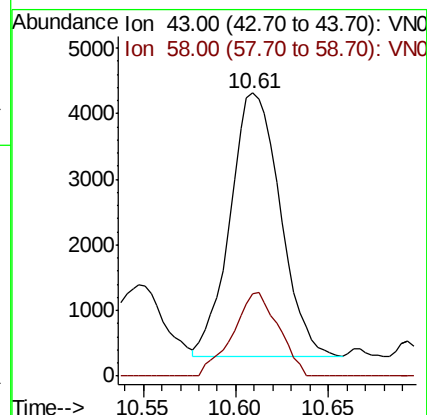
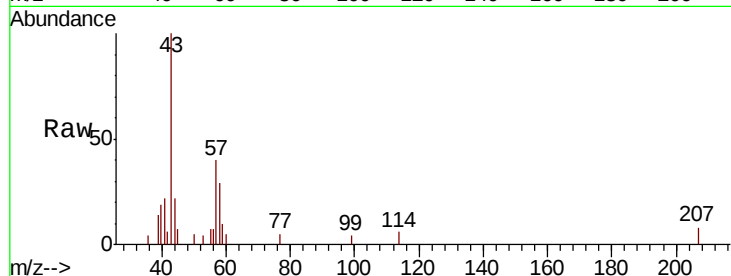
MW-2R

Tot Ion: 43 Resp: 7562

Ion Ratio Lower Upper

43 100

58 29.0 28.0 83.9



#62

4-Bromofluorobenzene

Concen: 42.511 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

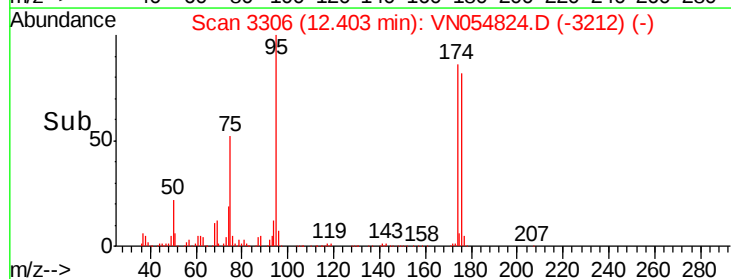
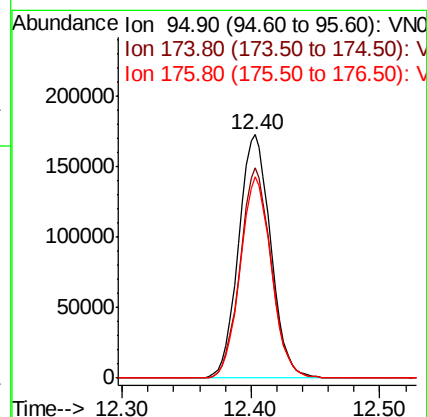
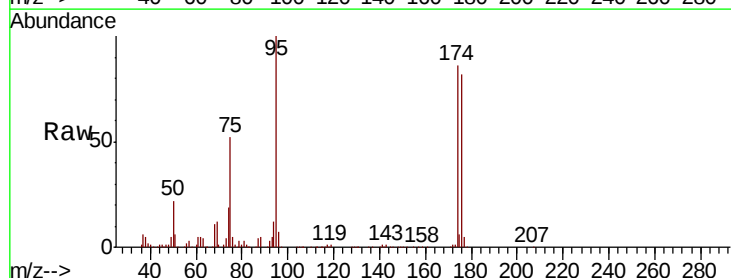
Tgt Ion: 95 Resp: 298811

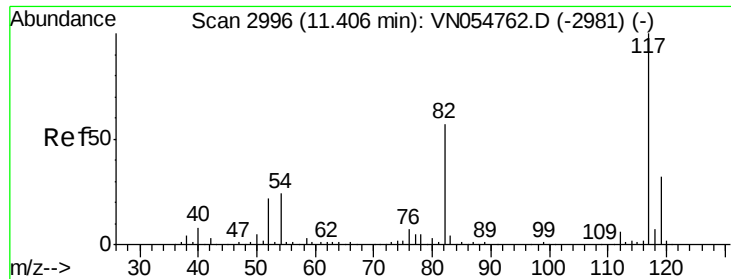
Ion Ratio Lower Upper

95 100

174 83.9 0.0 191.0

176 80.4 0.0 187.4

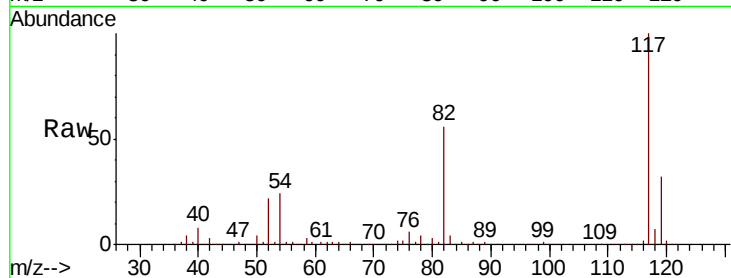




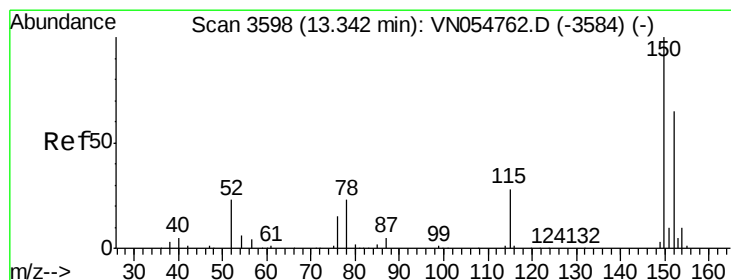
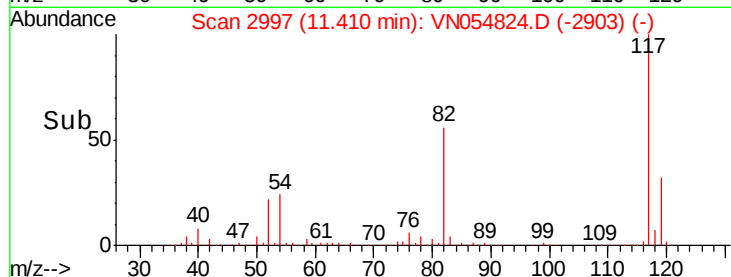
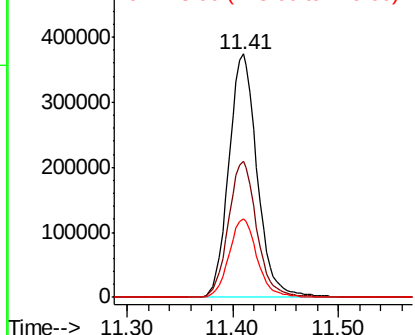
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

Instrument :
MSVOA_N
ClientSampled :
MW-2R

Tot Ion:117 Resp: 695299
Ion Ratio Lower Upper
117 100
82 55.7 40.0 60.0
119 32.4 25.8 38.6

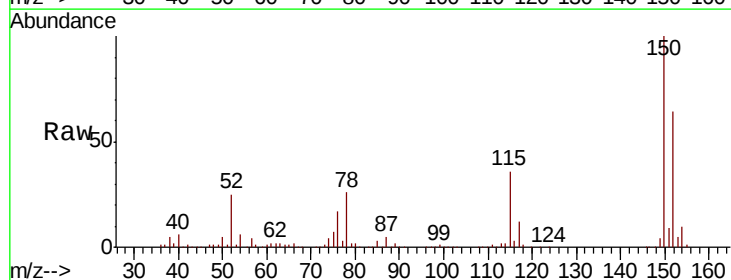


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

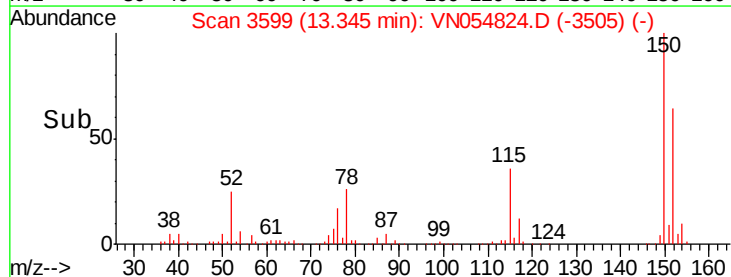
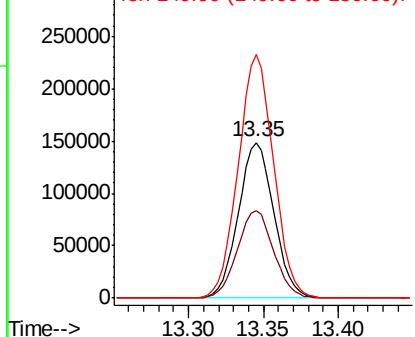


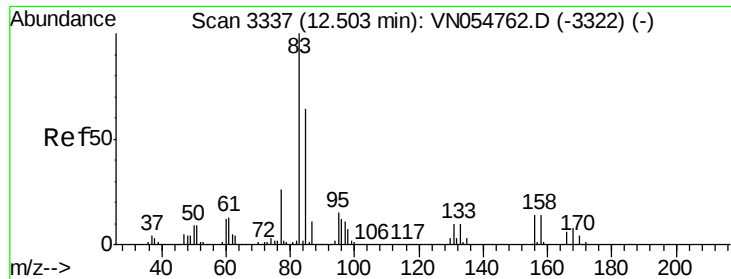
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

Tgt Ion:152 Resp: 246026
Ion Ratio Lower Upper
152 100
115 57.3 27.2 81.6
150 155.9 0.0 349.2



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampled :

MW-2R

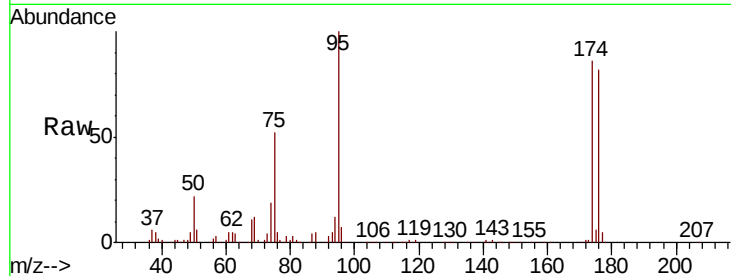
Tot Ion: 83 Resp: 307

Ion Ratio Lower Upper

83 100

131 97.1 5.8 17.4#

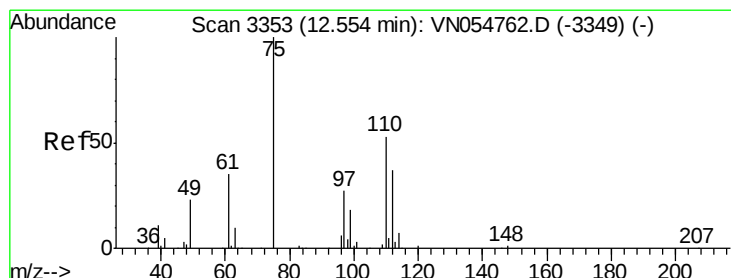
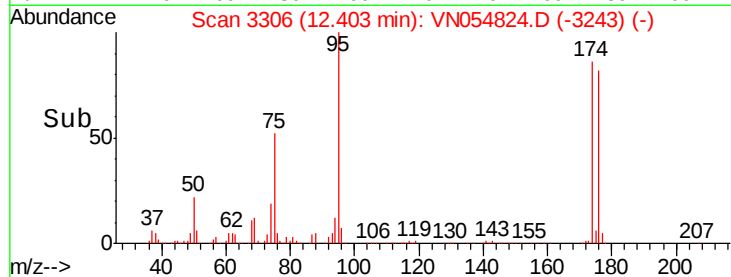
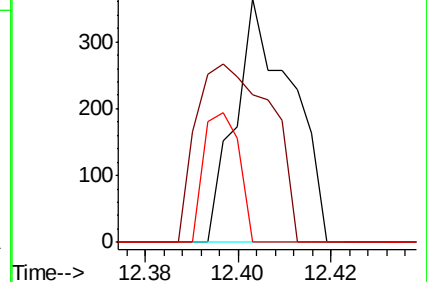
85 33.2 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.827 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054824.D

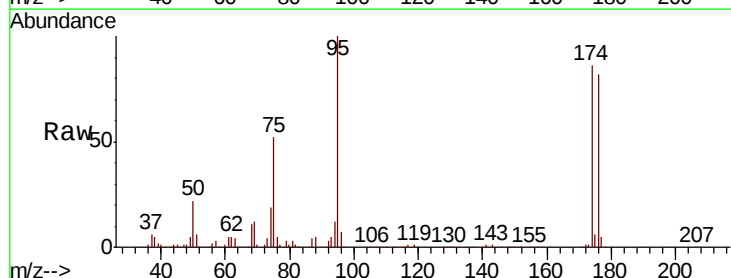
Acq: 31 Mar 2019 1:44

Tgt Ion: 75 Resp: 153124

Ion Ratio Lower Upper

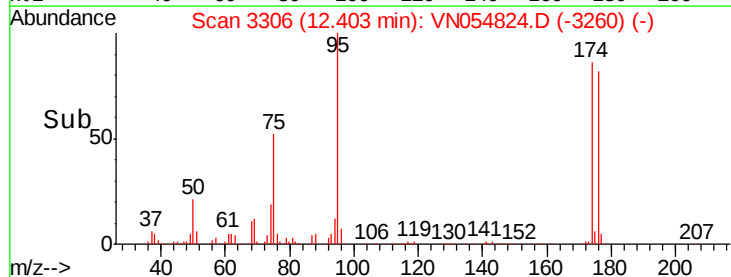
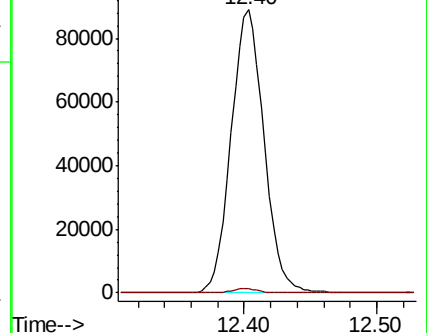
75 100

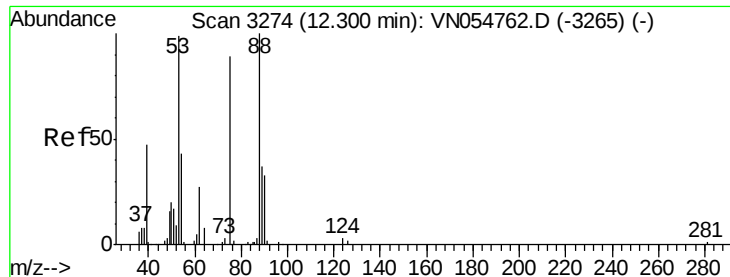
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

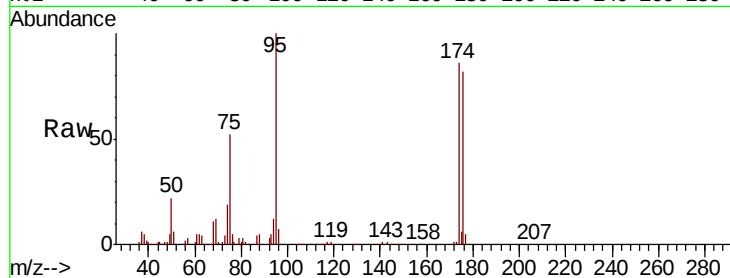




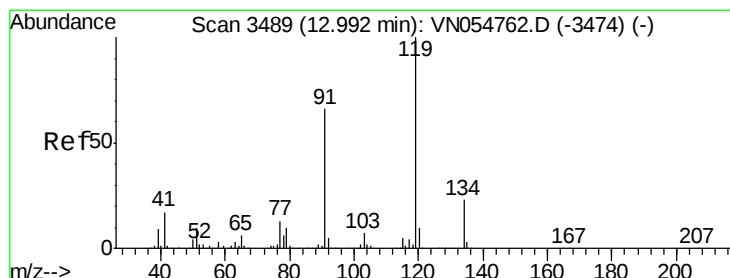
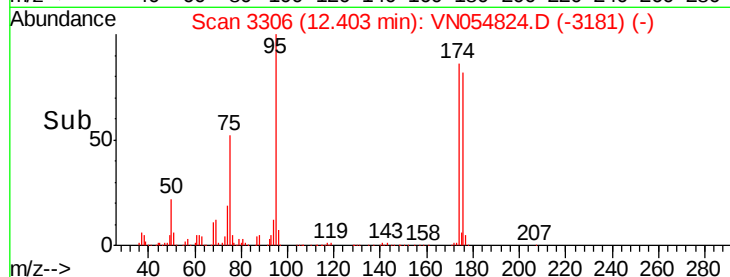
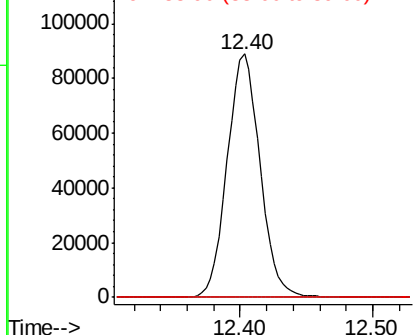
#81
trans-1,4-Dichloro-2-butene
Concen: 139.356 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

Instrument :
MSVOA_N
ClientSampleId :
MW-2R

Tot Ion: 75 Resp: 153124
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#

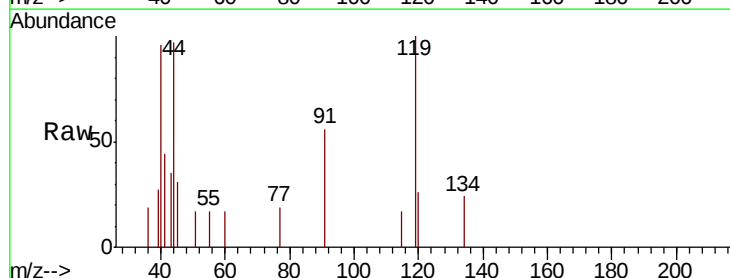


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

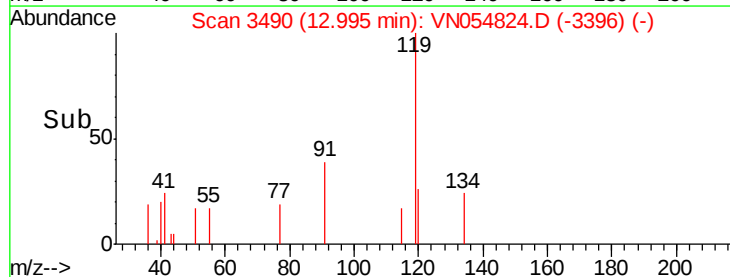
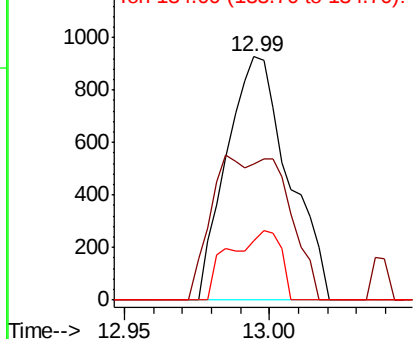


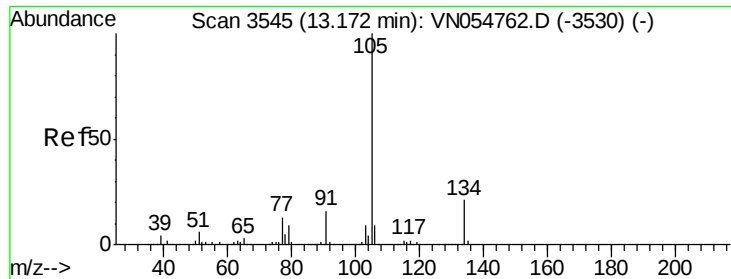
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054824.D
Acq: 31 Mar 2019 1:44

Tgt Ion: 119 Resp: 1372
Ion Ratio Lower Upper
119 100
91 34.7 30.9 92.8
134 23.7 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN0
Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 1.115 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN054824.D

Acq: 31 Mar 2019 1:44

Instrument :

MSVOA_N

ClientSampleId :

MW-2R

Tot Ion:105 Resp: 19989

Ion Ratio Lower Upper

105 100

134 30.3 10.7 32.1

