

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111518\
 Data File : VN052331.D
 Acq On : 15 Nov 2018 9:53
 Operator : MD\SY
 Sample : VN1115WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 16 02:48:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	325177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	537556	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157657	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	238114	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
35) Dibromofluoromethane	7.59	113	188592	54.39	ug/l	0.00
Spiked Amount			Recovery	=	108.78%	
50) Toluene-d8	10.09	98	728860	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
62) 4-Bromofluorobenzene	12.40	95	215819	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	

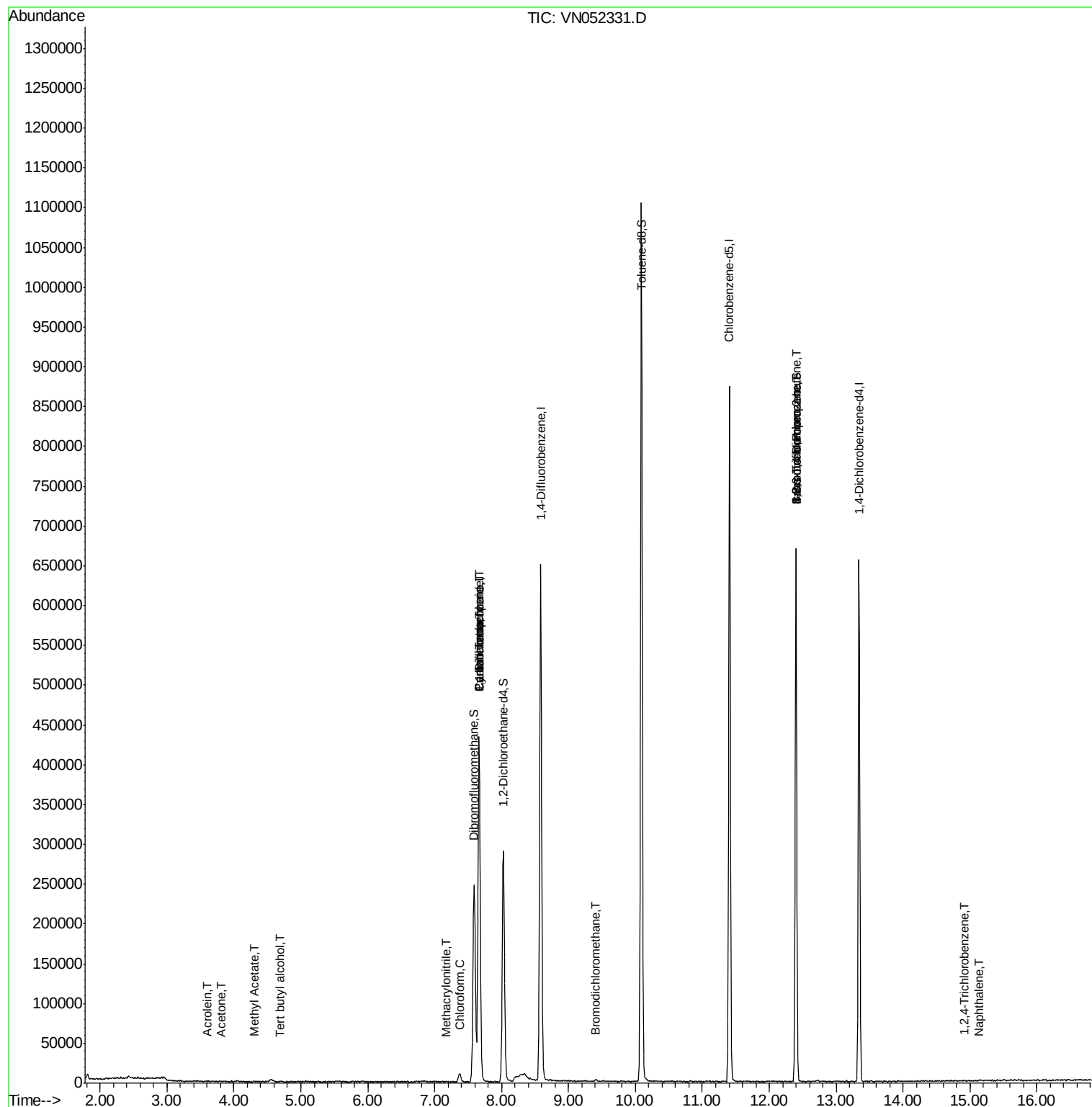
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.68	59	59	0.243	ug/l #	72
13) Acrolein	3.60	56	160	22.170	ug/l #	36
16) Acetone	3.82	43	541	0.428	ug/l #	44
18) Methyl Acetate	4.31	43	174	0.480	ug/l #	57
20) Methylene Chloride	4.56	84	1265	Below Cal	#	53
30) Chloroform	7.38	83	9888	1.380	ug/l	100
31) Cyclohexane	7.66	56	9174	0.259	ug/l #	13
36) 1,1-Dichloropropene	7.66	75	28982	5.379	ug/l #	51
38) Carbon Tetrachloride	7.66	117	34818	7.034	ug/l #	15
41) Methacrylonitrile	7.17	41	99	3.738	ug/l #	100
47) Bromodichloromethane	9.40	83	1360	0.262	ug/l #	85
71) Bromoform	12.40	173	1216	0.629	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	119410	44.637	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119410	144.775	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	63	2.282	ug/l #	1
95) Naphthalene	15.13	128	458	2.682	ug/l #	69

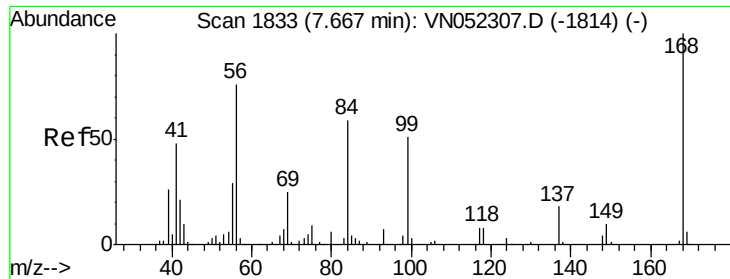
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

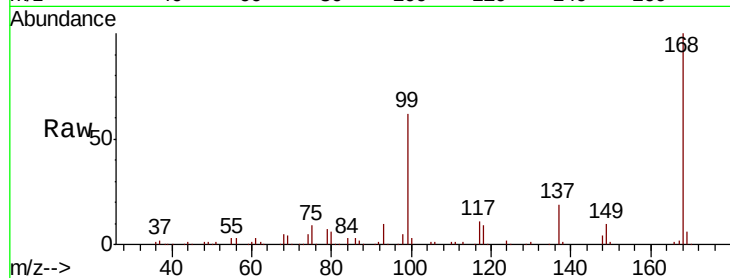
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 325177

Ion Ratio Lower Upper

168 100

99 61.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

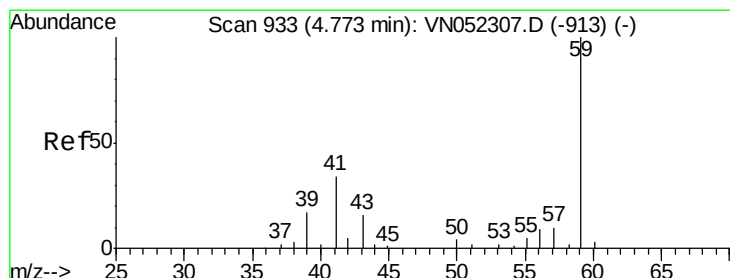
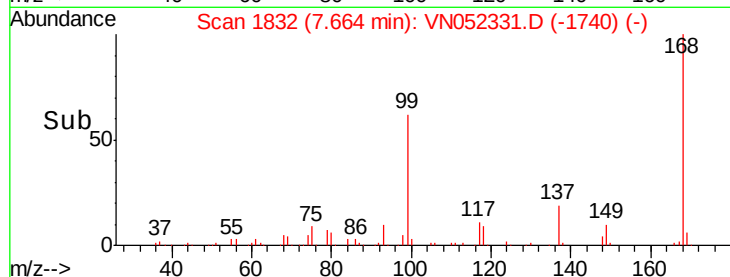
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.243 ug/l

RT: 4.68 min Scan# 905

Delta R.T. -0.09 min

Lab File: VN052331.D

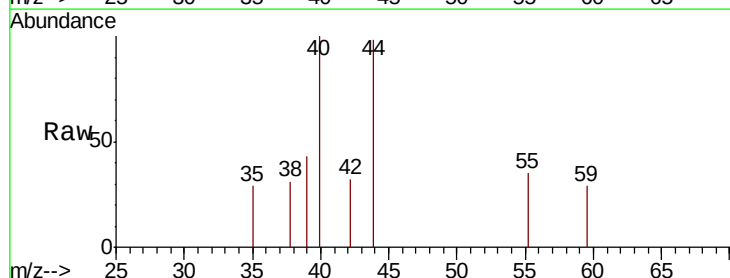
Acq: 15 Nov 2018 9:53

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.68

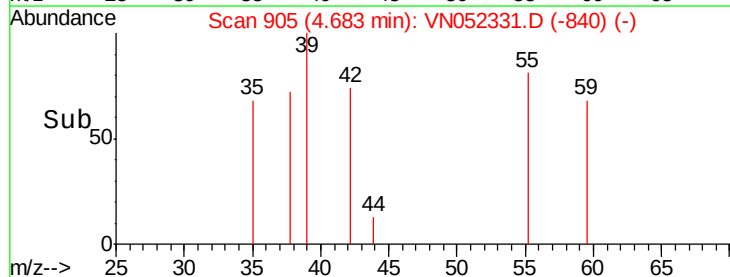
150

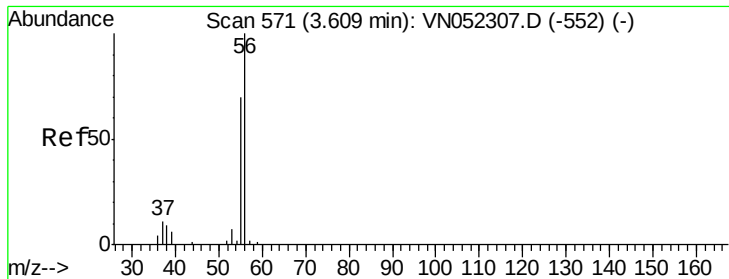
100

50

0

Time--> 4.67 4.68 4.69





#13

Acrolein

Concen: 22.170 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

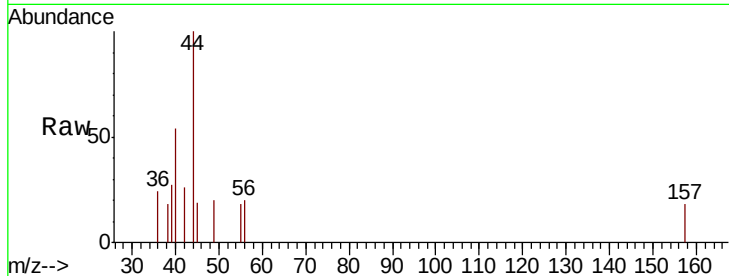
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 160

Ion Ratio Lower Upper

56 100

55 18.8 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-552) (-)

3.60

150

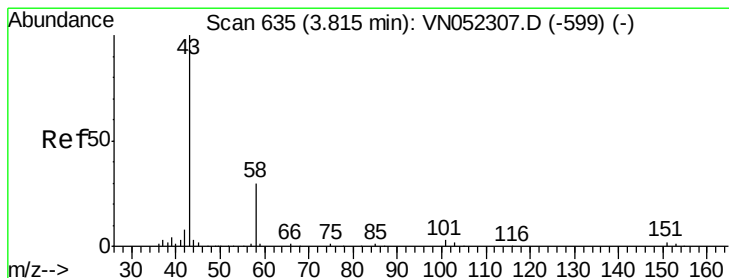
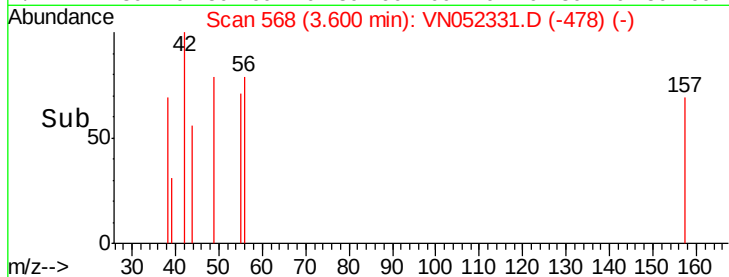
100

50

0

3.58 3.59 3.60 3.61

Time-->



#16

Acetone

Concen: 0.428 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052331.D

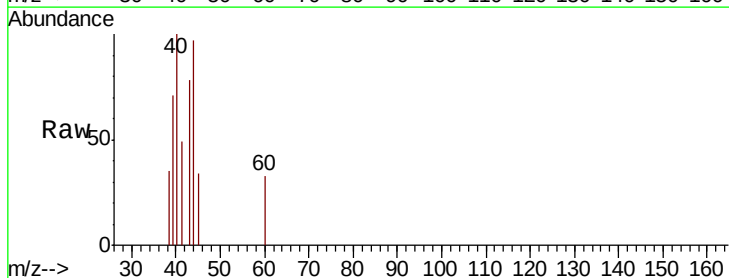
Acq: 15 Nov 2018 9:53

Tgt Ion: 43 Resp: 541

Ion Ratio Lower Upper

43 100

58 0.0 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-599) (-)

3.82

400

300

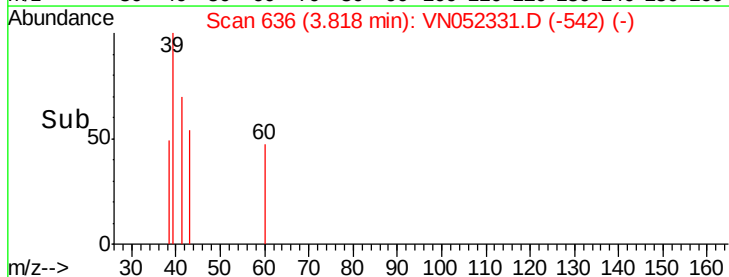
200

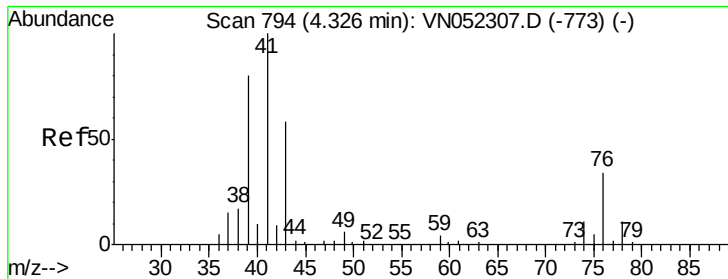
100

0

3.80 3.82 3.84

Time-->

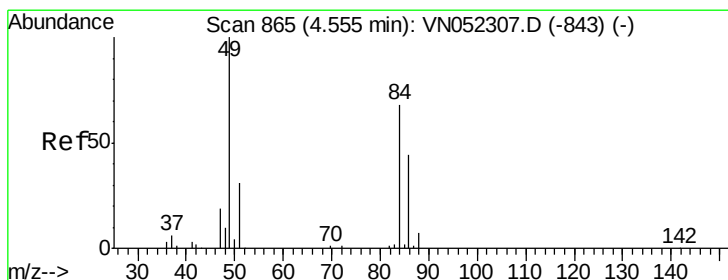
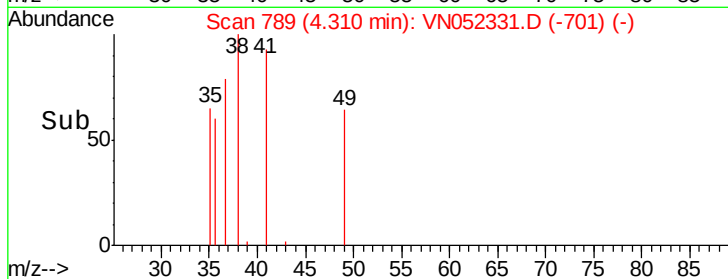
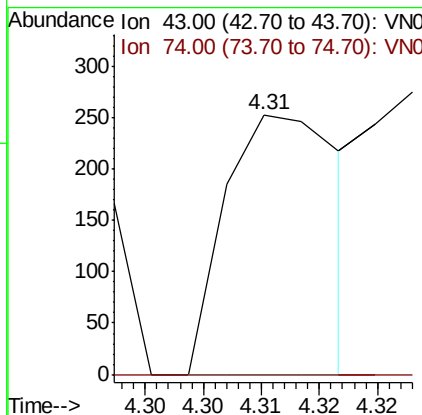
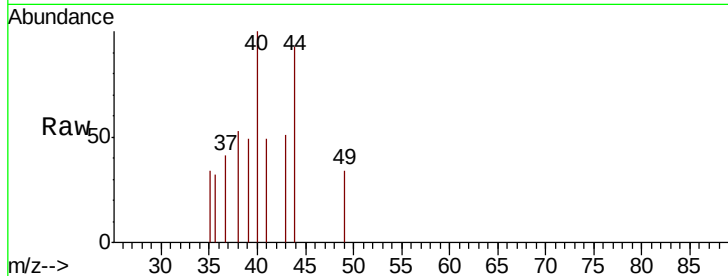




#18
Methyl Acetate
Concen: 0.480 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.02 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

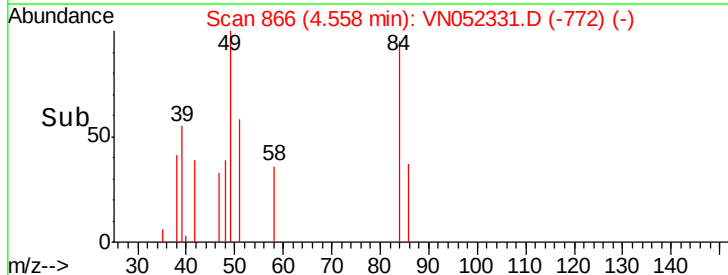
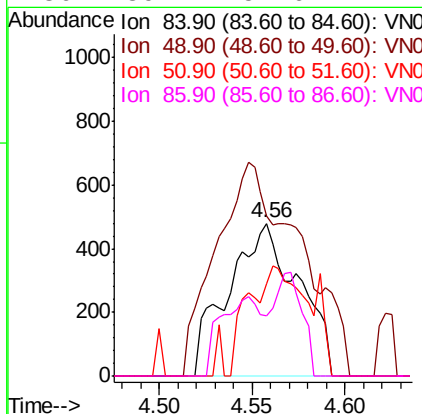
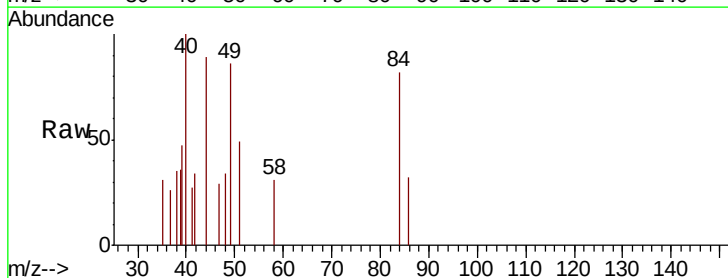
Instrument :
MSVOA_N
ClientSampled :

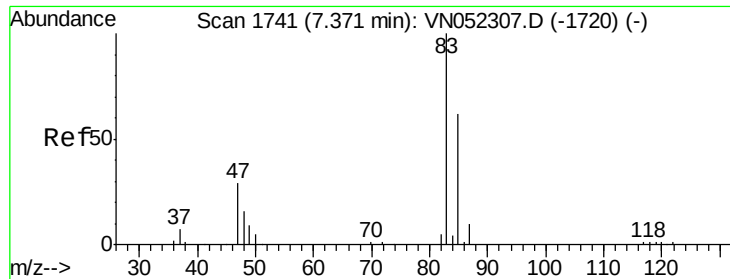
Tot Ion: 43 Resp: 174
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

Tgt Ion: 84 Resp: 1265
Ion Ratio Lower Upper
84 100
49 72.0 118.2 177.2#
51 60.3 36.1 54.1#
86 39.2 51.6 77.4#

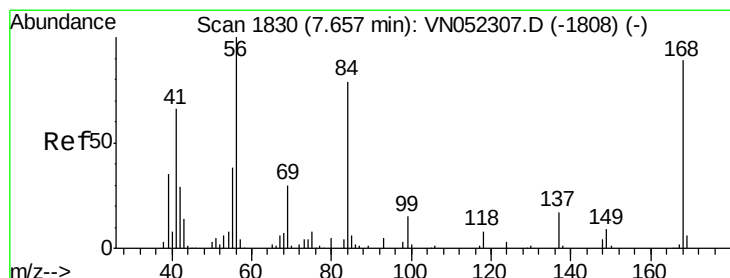
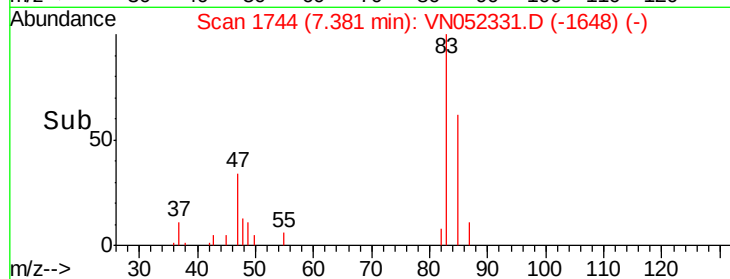
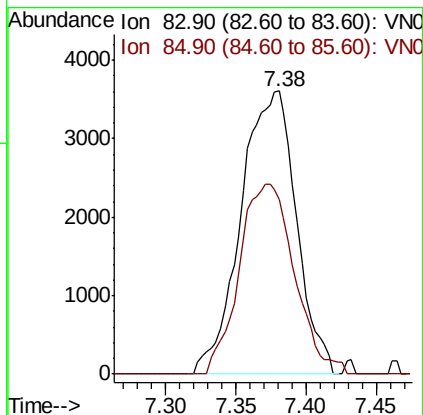
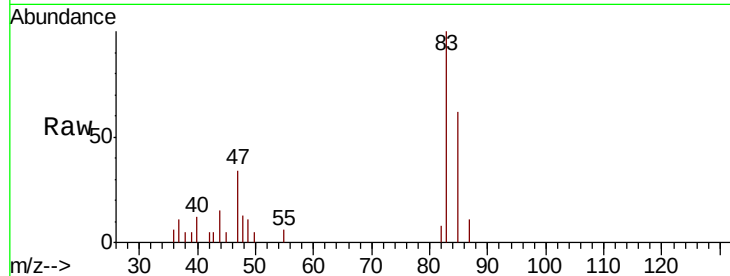




#30
Chloroform
Concen: 1.380 ug/l
RT: 7.38 min Scan# 1744
Delta R.T. 0.01 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

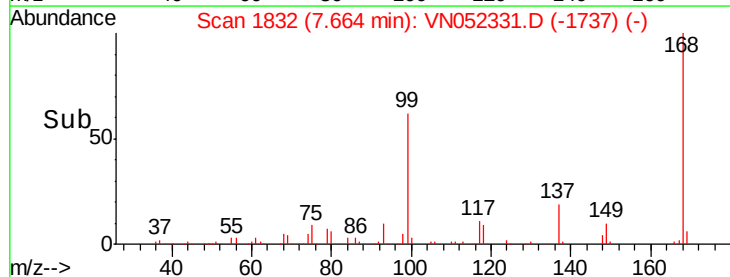
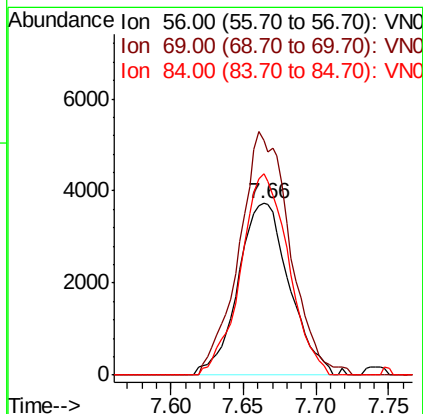
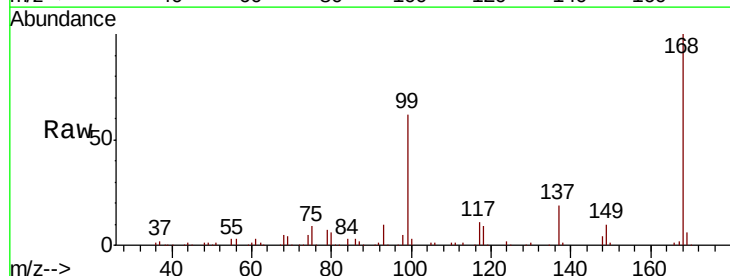
Instrument :
MSVOA_N
ClientSampleId :

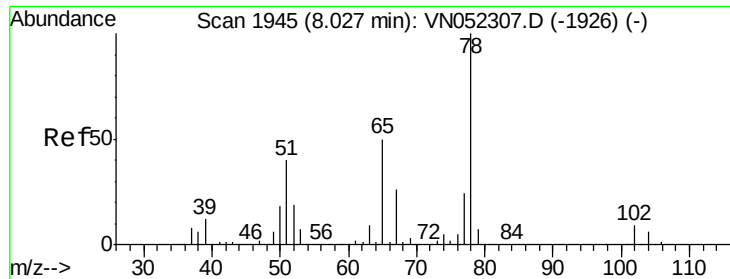
Tot Ion: 83 Resp: 9888
Ion Ratio Lower Upper
83 100
85 61.5 49.4 74.2



#31
Cyclohexane
Concen: 0.259 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

Tgt Ion: 56 Resp: 9174
Ion Ratio Lower Upper
56 100
69 136.9 23.8 35.8#
84 117.6 63.0 94.6#

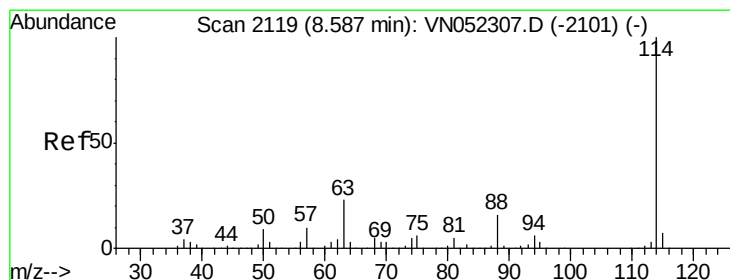
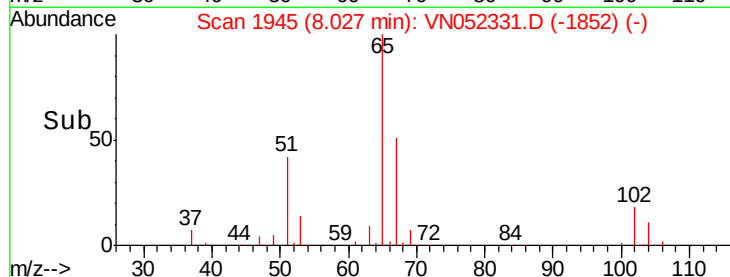
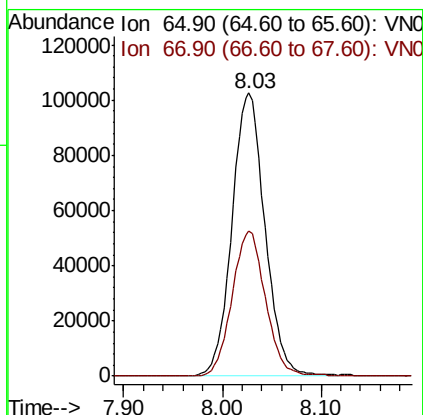
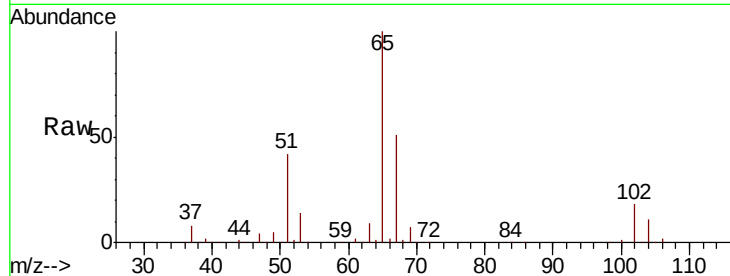




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

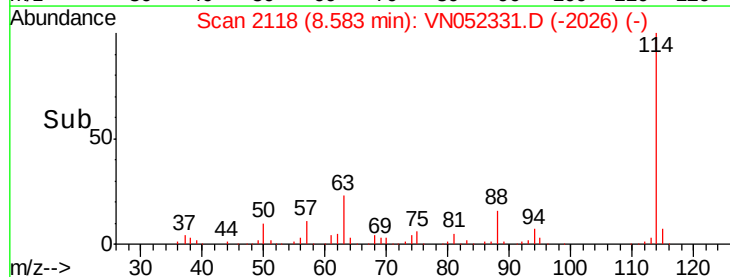
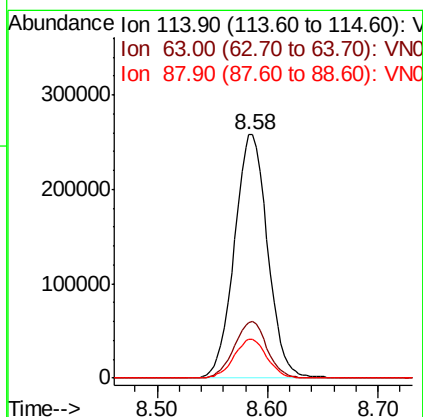
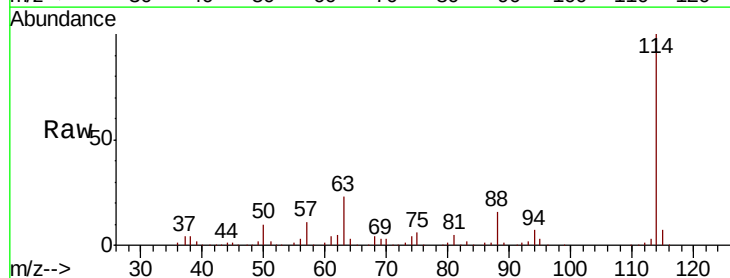
Instrument :
 MSVOA_N
 ClientSampled :

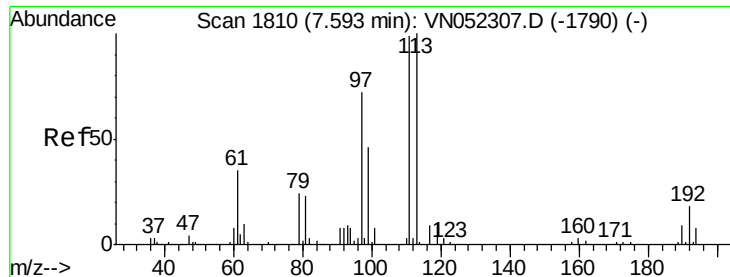
Tot Ion: 65 Resp: 238114
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

Tgt Ion: 114 Resp: 537556
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.4
 88 16.2 0.0 31.2

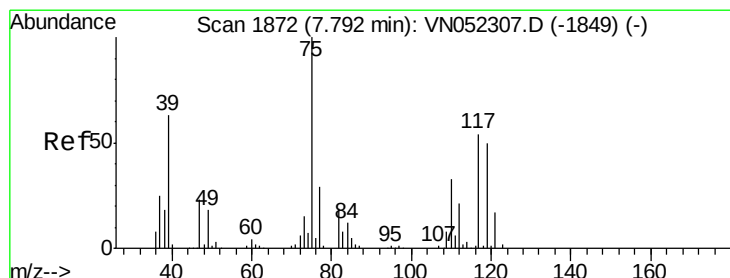
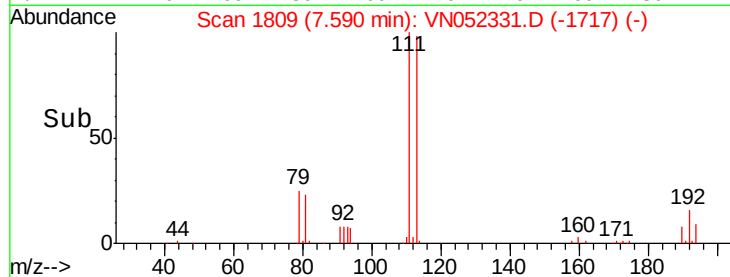
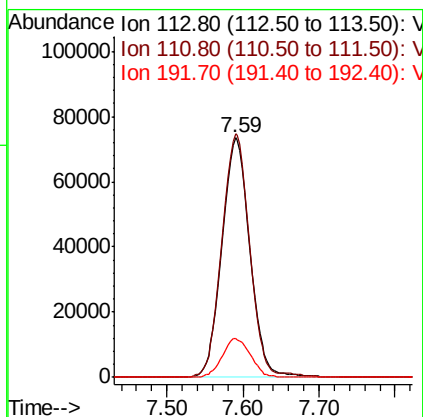
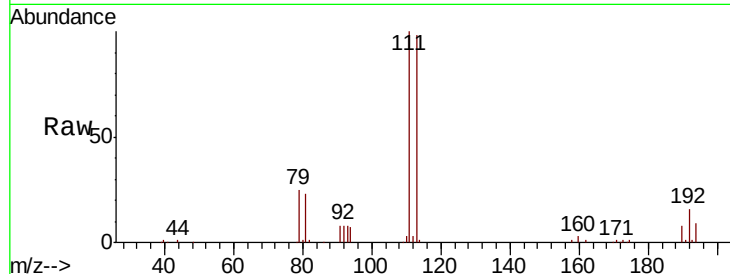




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

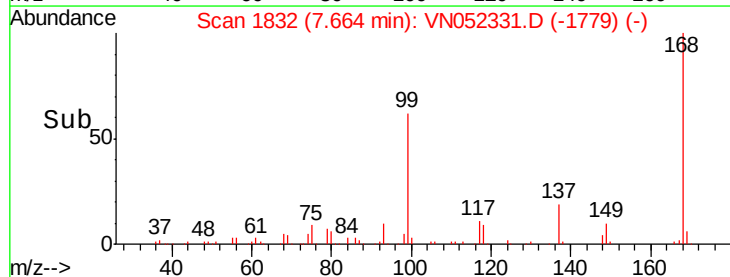
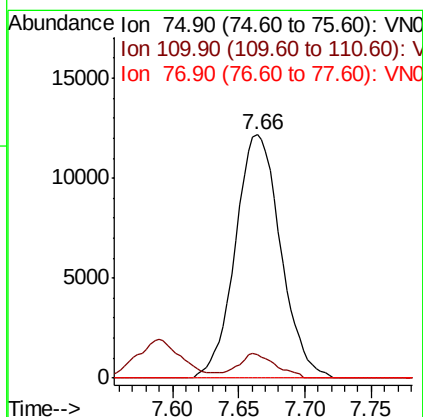
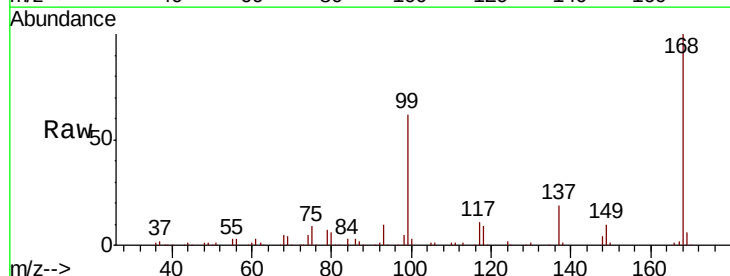
Instrument :
 MSVOA_N
 ClientSampleId :

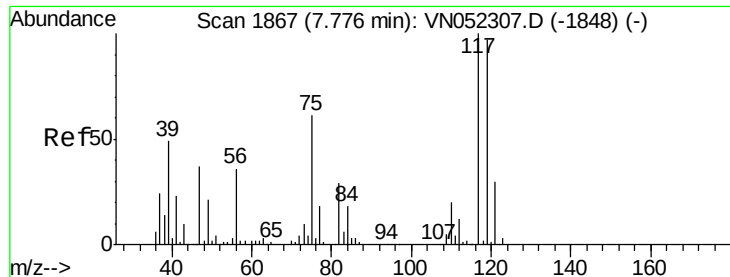
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.8	81.0	121.6
192	16.4	13.8	20.6



#36
 1,1-Dichloropropene
 Concen: 5.379 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.5	49.5#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 7.034 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

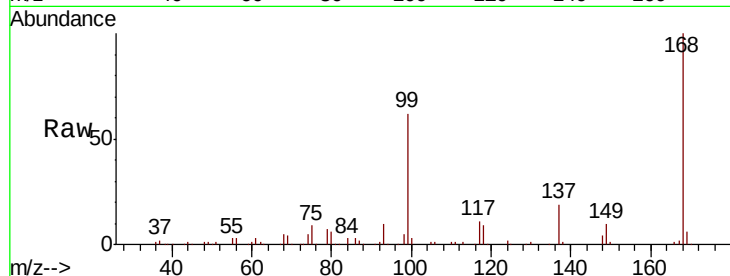
Tot Ion:117 Resp: 34818

Ion Ratio Lower Upper

117 100

119 4.1 77.4 116.0#

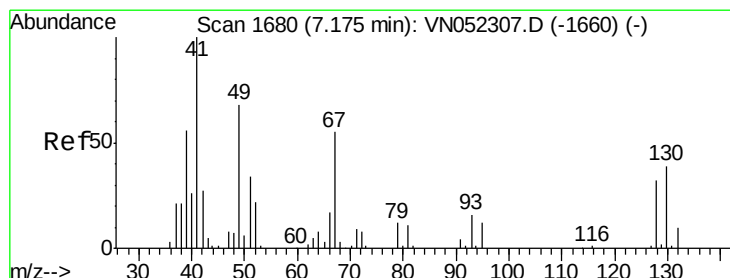
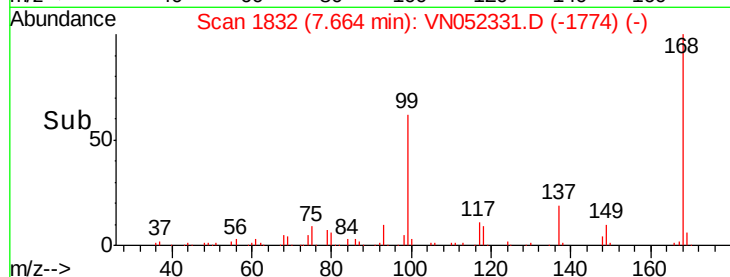
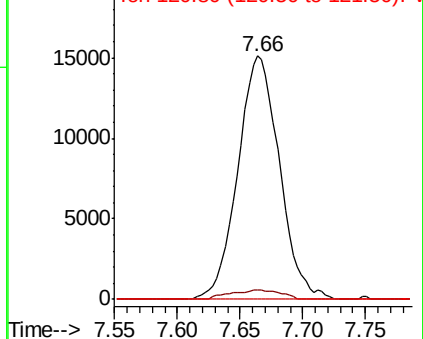
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.738 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

Tgt Ion: 41 Resp: 99

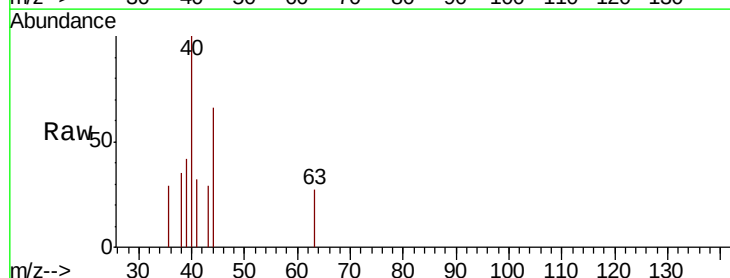
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

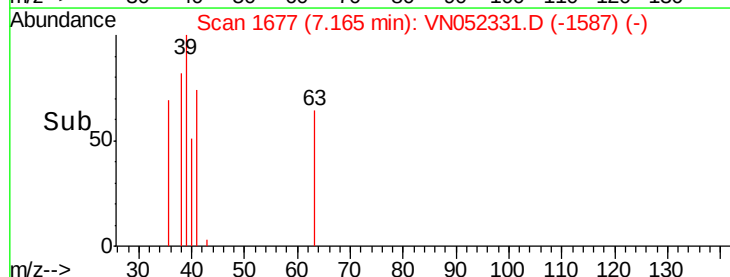
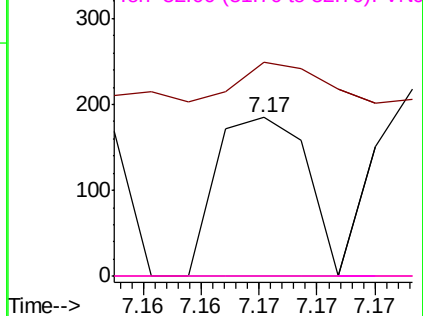


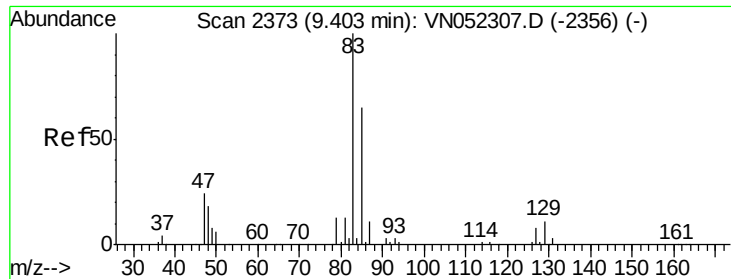
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#47

Bromodichloromethane

Concen: 0.262 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

Instrument :
MSVOA_N
ClientSampled :

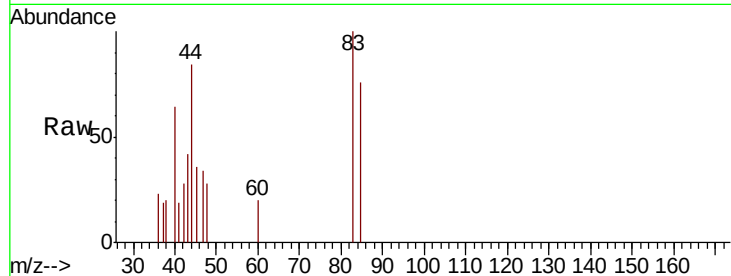
Tot Ion: 83 Resp: 1360

Ion Ratio Lower Upper

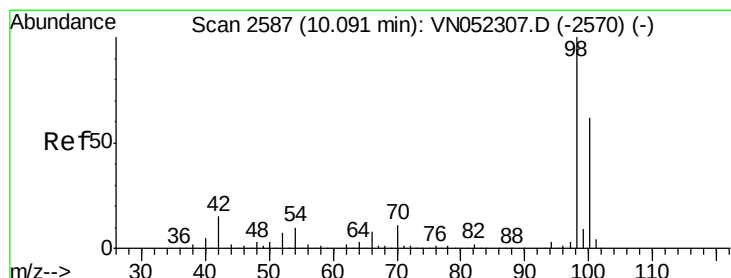
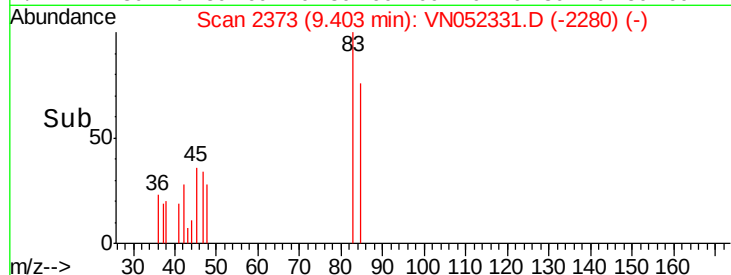
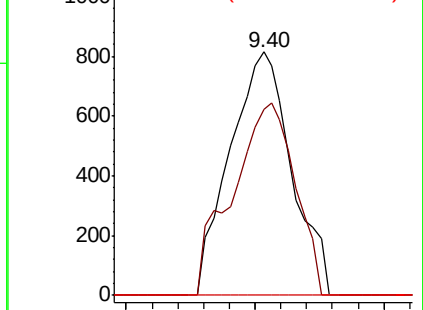
83 100

85 76.2 52.2 78.4

127 0.0 6.7 10.1#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN052331.D

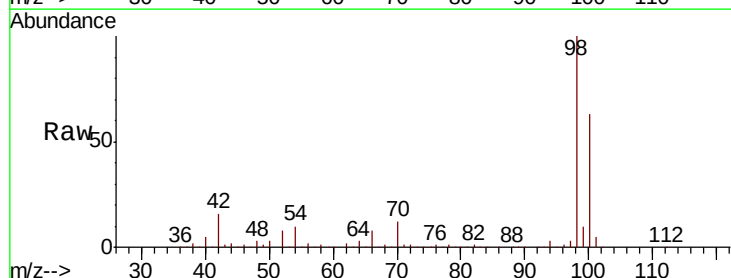
Acq: 15 Nov 2018 9:53

Tgt Ion: 98 Resp: 728860

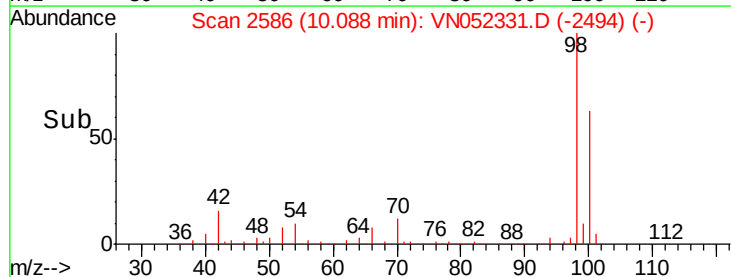
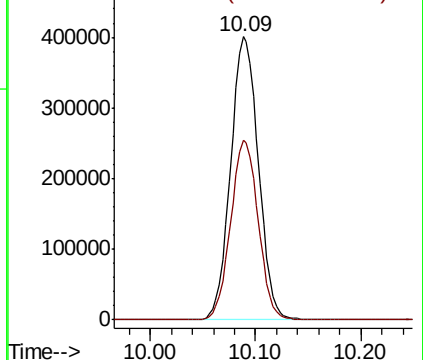
Ion Ratio Lower Upper

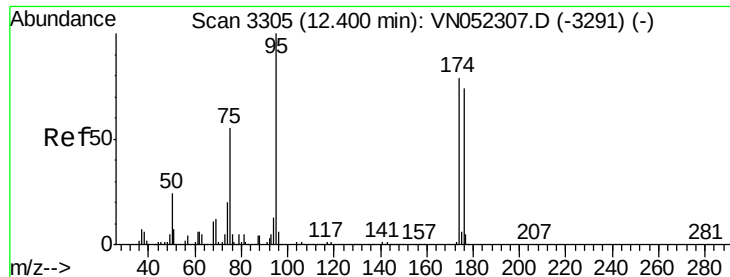
98 100

100 63.1 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO

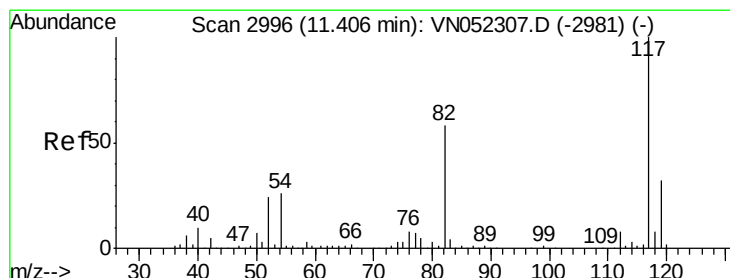
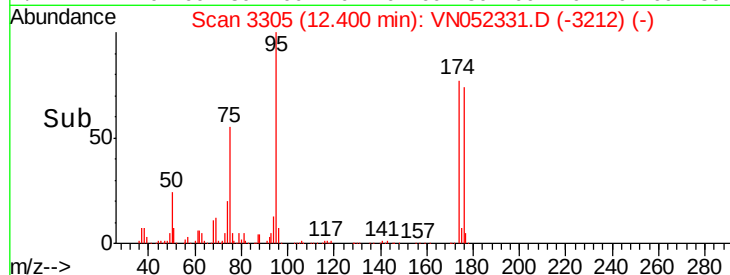
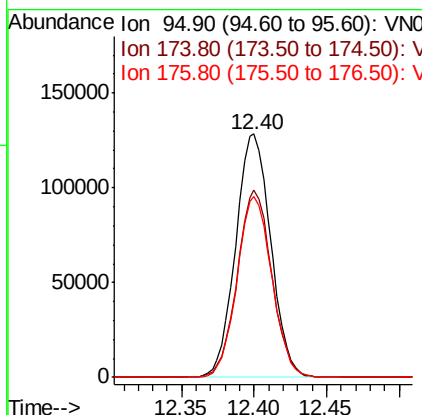
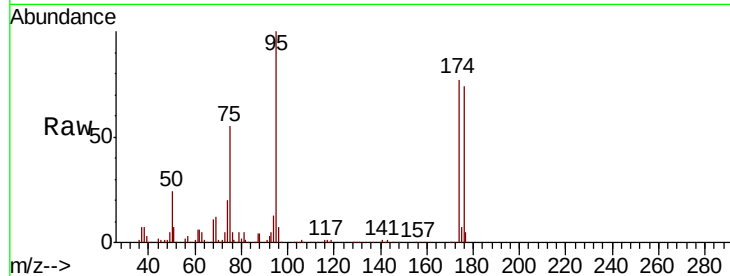




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

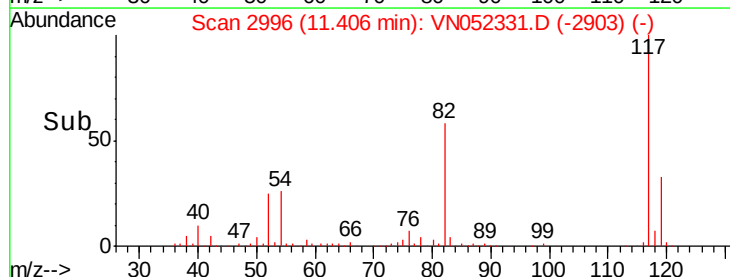
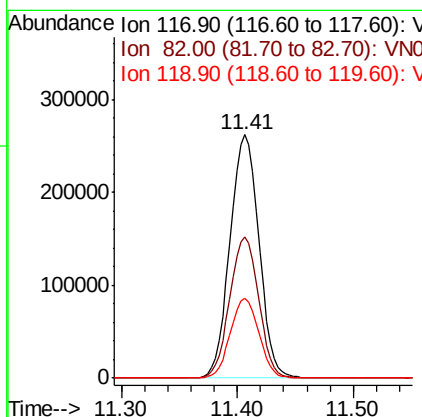
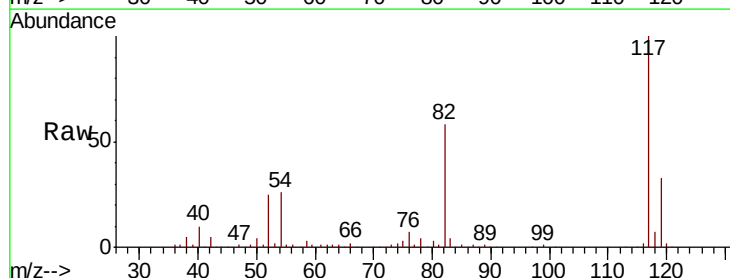
Instrument :
MSVOA_N
ClientSampleId :

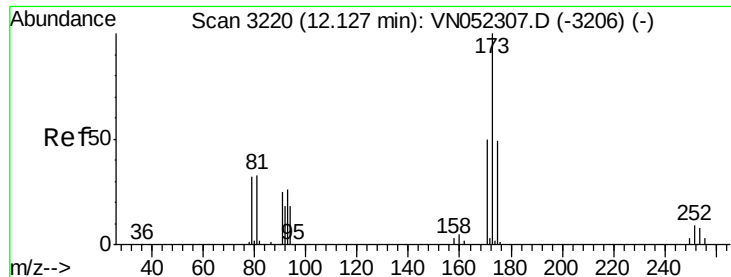
Tot Ion: 95 Resp: 215819
Ion Ratio Lower Upper
95 100
174 75.8 0.0 156.0
176 73.7 0.0 148.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052331.D
Acq: 15 Nov 2018 9:53

Tgt Ion: 117 Resp: 454213
Ion Ratio Lower Upper
117 100
82 58.1 46.5 69.7
119 32.7 25.7 38.5





#71

Bromoform

Concen: 0.629 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

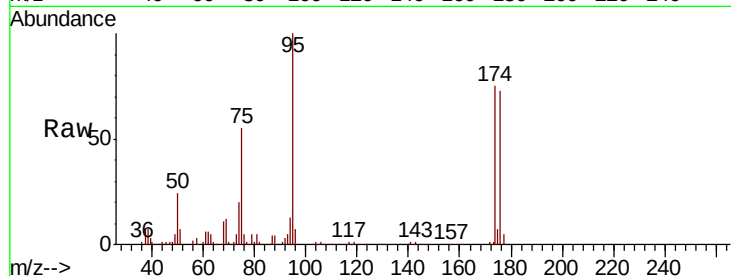
Tot Ion:173 Resp: 1216

Ion Ratio Lower Upper

173 100

175 1010.1 25.0 75.0#

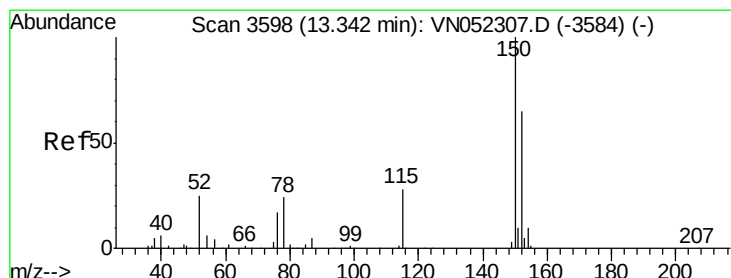
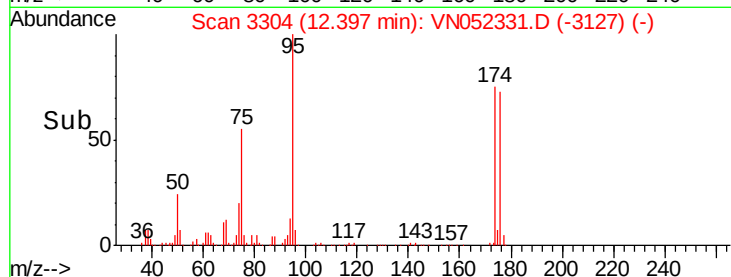
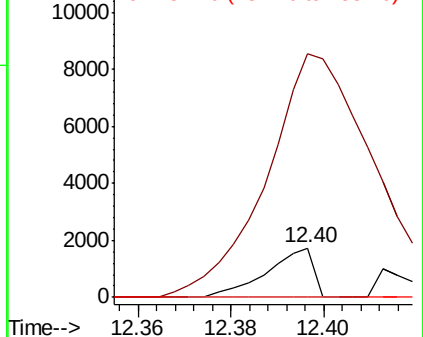
254 0.0 0.0 0.0



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: VN052331.D

Acq: 15 Nov 2018 9:53

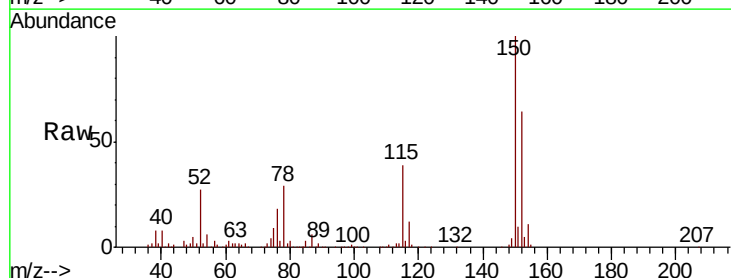
Tgt Ion:152 Resp: 157657

Ion Ratio Lower Upper

152 100

115 61.9 30.3 91.0

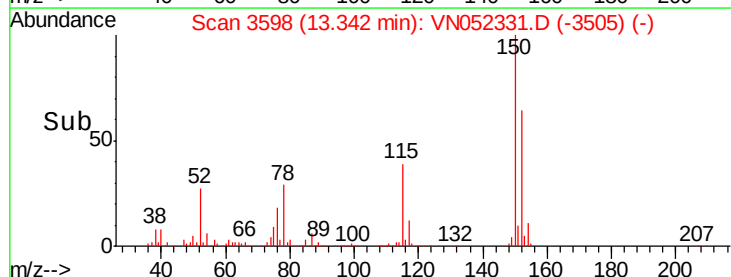
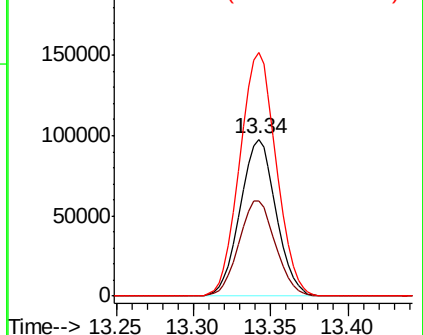
150 158.0 0.0 348.2

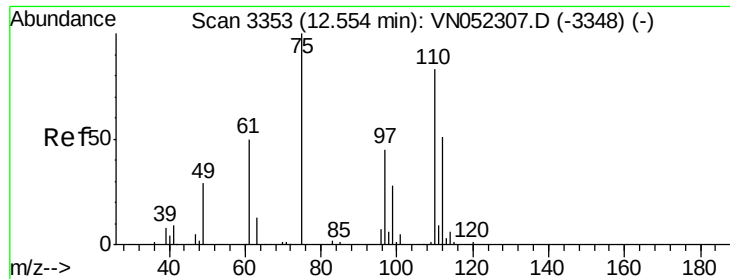


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

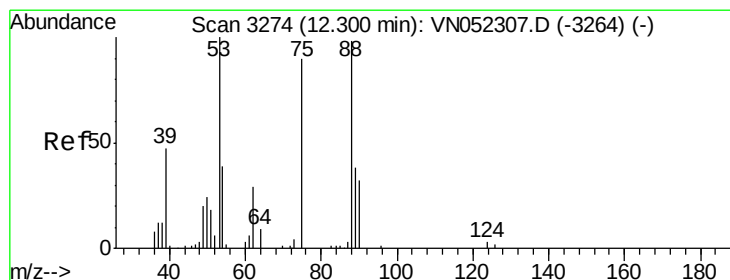
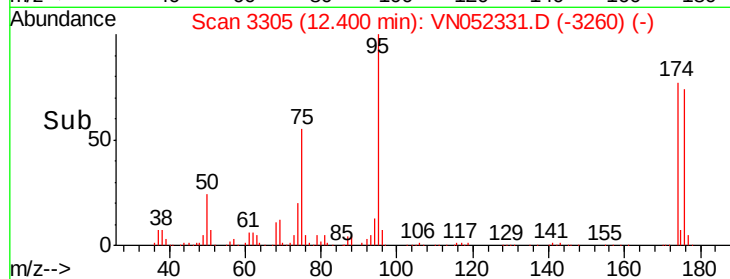
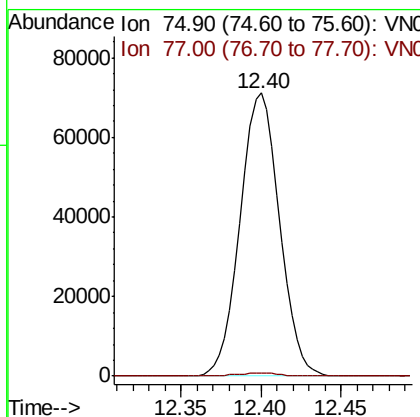
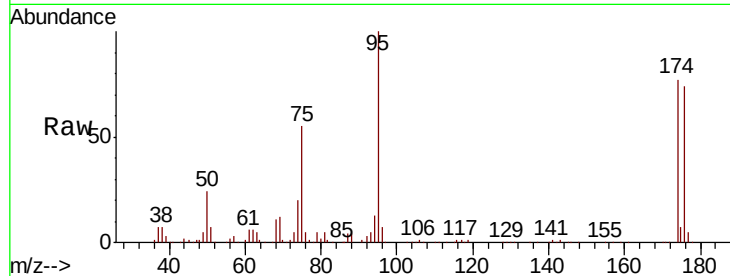




#76
 1,2,3-Trichloropropane
 Concen: 44.637 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

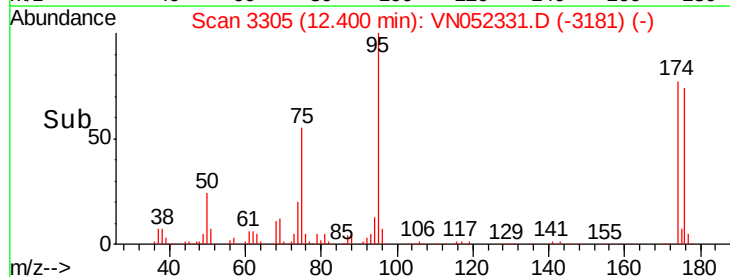
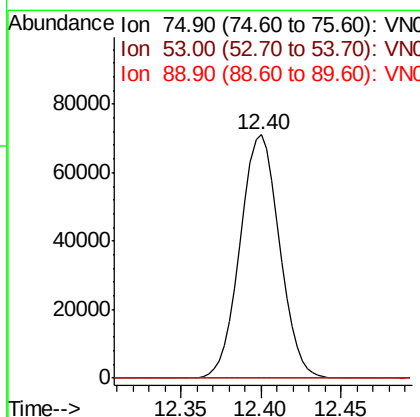
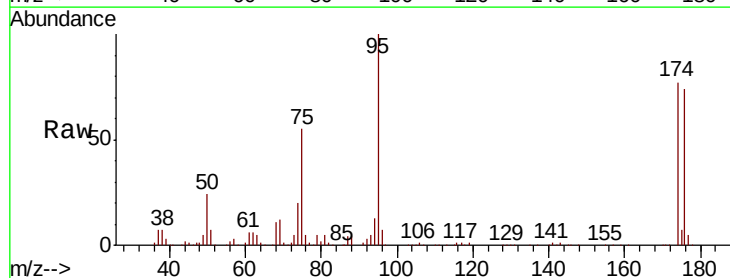
Instrument :
 MSVOA_N
 ClientSampleId :

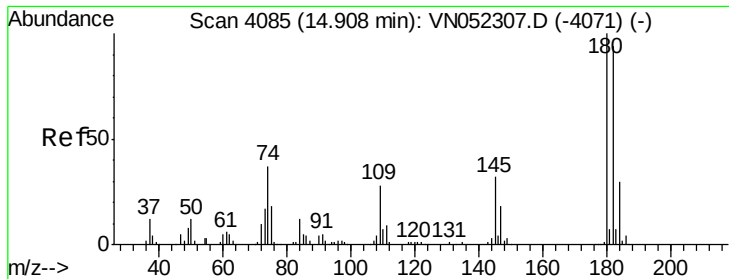
Tot Ion: 75 Resp: 119410
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.775 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052331.D
 Acq: 15 Nov 2018 9:53

Tgt Ion: 75 Resp: 119410
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#





#93

1,2,4-Trichlorobenzene

Concen: 2.282 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

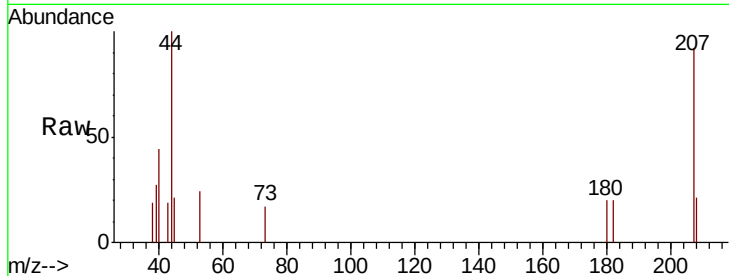
Tot Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 212.7 47.6 142.9#

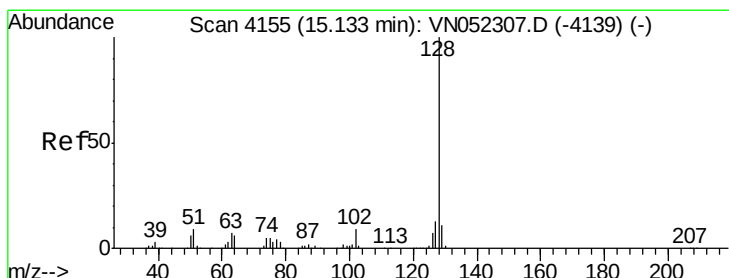
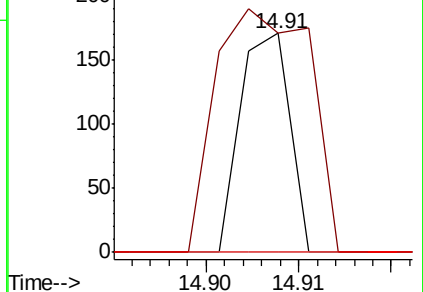
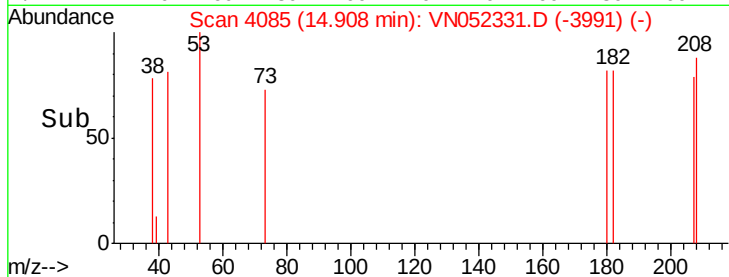
145 0.0 15.5 46.5#



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: 2.682 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052331.D

Acq: 15 Nov 2018 9:53

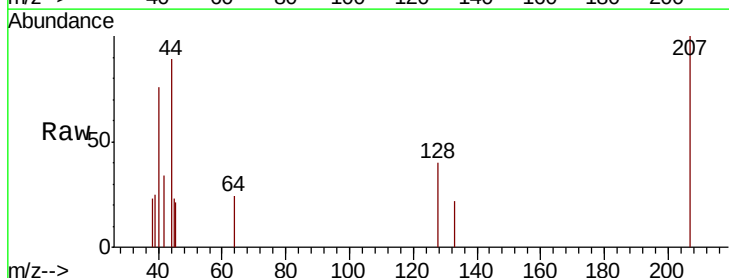
Tgt Ion:128 Resp: 458

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

