

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110918\
 Data File : VN052238.D
 Acq On : 9 Nov 2018 20:15
 Operator : MD\SY
 Sample : J5897-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CARBON-DNM

Quant Time: Nov 12 03:25:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	310587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	512729	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	429815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176658	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	194447	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
35) Dibromofluoromethane	7.59	113	154259	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
50) Toluene-d8	10.09	98	630796	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	12.40	95	191381	45.53	ug/l	0.00
Spiked Amount			Recovery	=	91.06%	

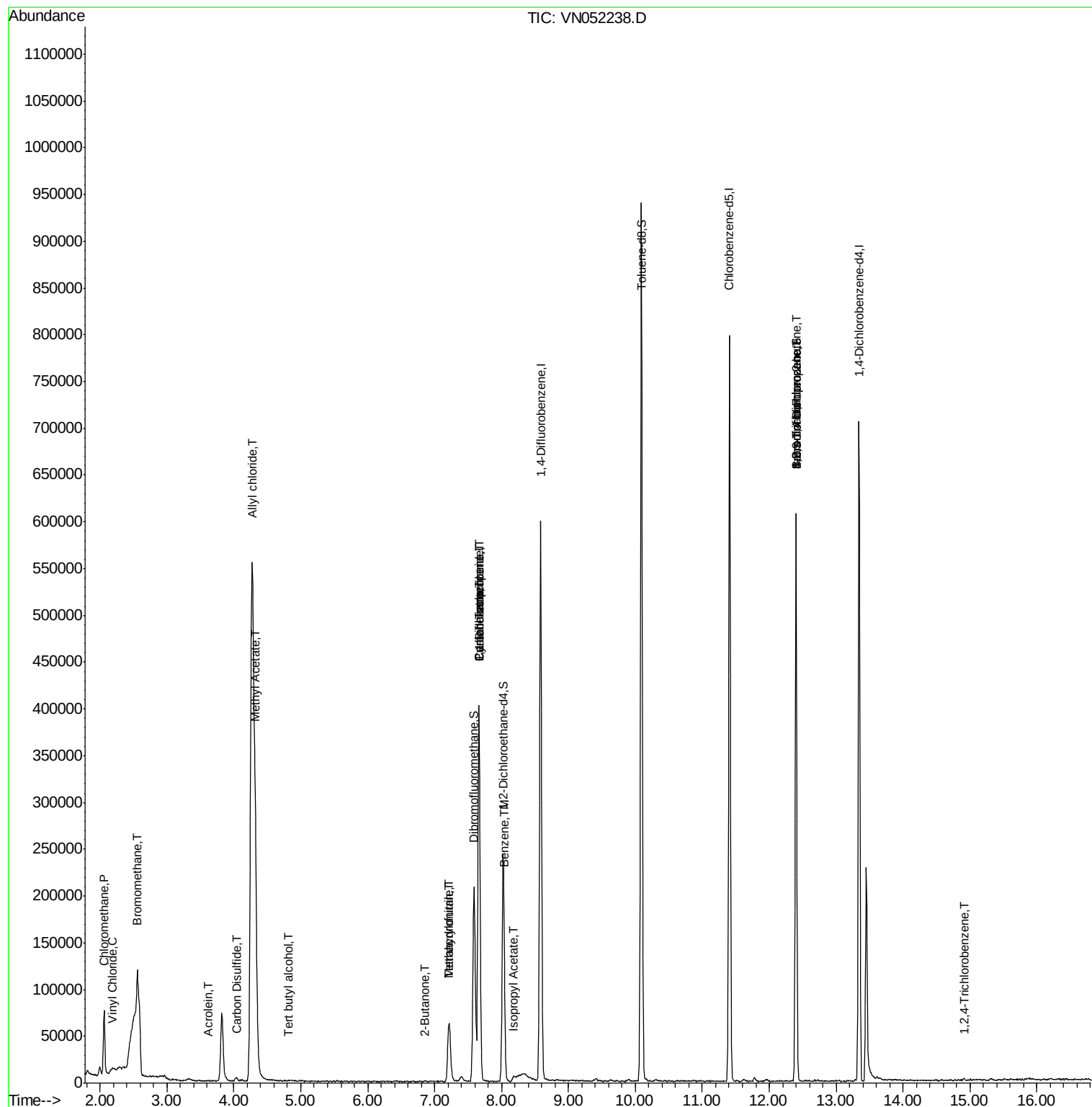
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	67139	14.242	ug/l	95
4) Vinyl Chloride	2.20	62	902	0.230	ug/l	91
5) Bromomethane	2.55	94	674	0.270	ug/l #	7
11) Tert butyl alcohol	4.80	59	204	0.937	ug/l #	71
13) Acrolein	3.61	56	150	34.483	ug/l #	12
14) Allyl chloride	4.27	41	1203493	177.034	ug/l #	41
16) Acetone	3.83	43	9538	Below Cal		96
17) Carbon Disulfide	4.03	76	7344	0.780	ug/l	99
18) Methyl Acetate	4.32	43	234783	66.150	ug/l	100
25) 2-Butanone	6.85	43	556	0.307	ug/l #	52
29) Tetrahydrofuran	7.21	42	61374	52.045	ug/l	98
31) Cyclohexane	7.66	56	8509	0.614	ug/l #	11
36) 1,1-Dichloropropene	7.66	75	26083	5.040	ug/l #	48
38) Carbon Tetrachloride	7.66	117	32861	7.007	ug/l #	16
40) Benzene	8.05	78	3205	0.216	ug/l	92
41) Methacrylonitrile	7.21	41	34325	15.176	ug/l #	46
43) Isopropyl Acetate	8.19	43	3840	0.566	ug/l #	64
71) Bromoform	12.40	173	1703	0.925	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	104226	33.347	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	104226	113.827	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.90	180	578	0.255	ug/l #	88

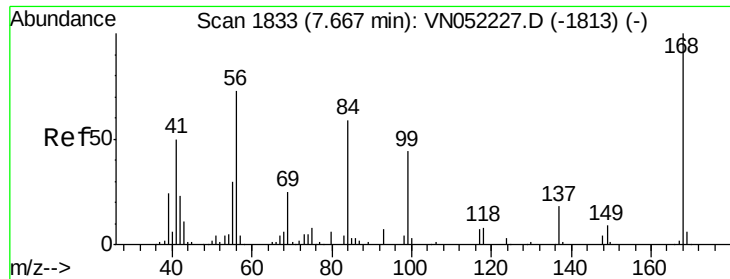
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
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: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

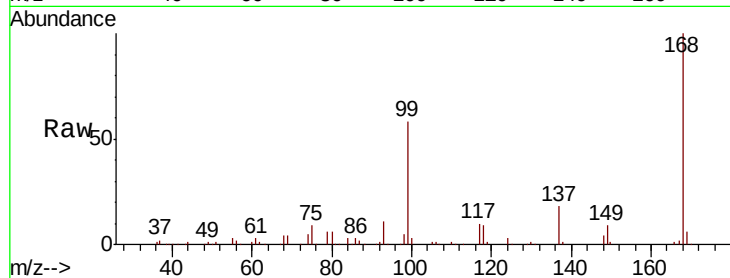
CARBON-DNM

Tot Ion:168 Resp: 310587

Ion Ratio Lower Upper

168 100

99 58.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

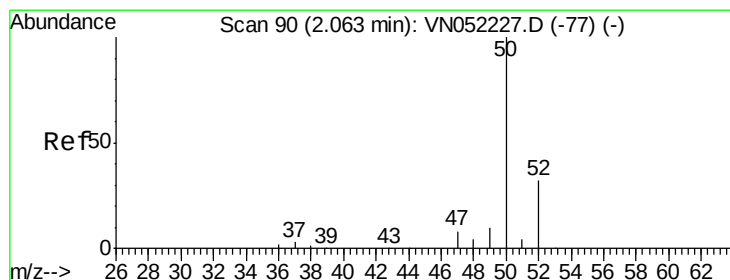
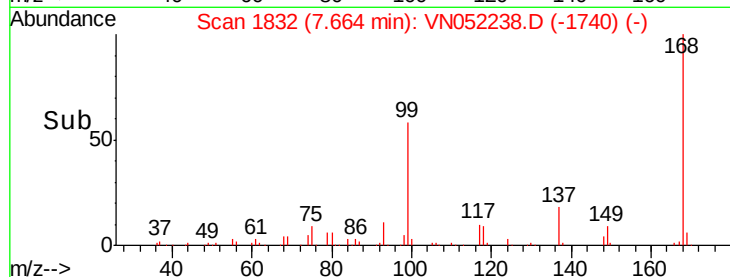
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 14.242 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052238.D

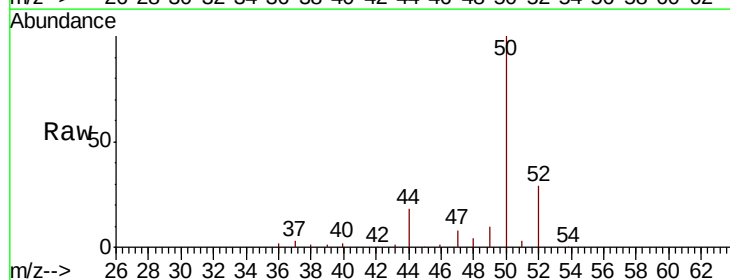
Acq: 9 Nov 2018 20:15

Tgt Ion: 50 Resp: 67139

Ion Ratio Lower Upper

50 100

52 29.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

50000

40000

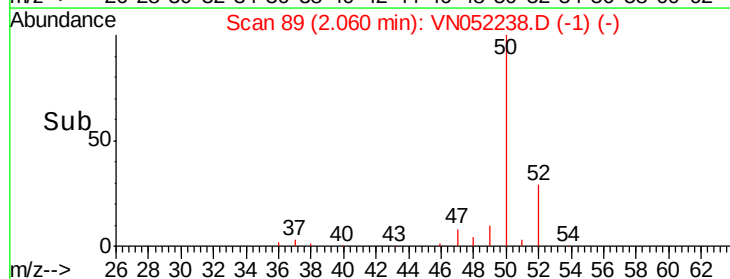
30000

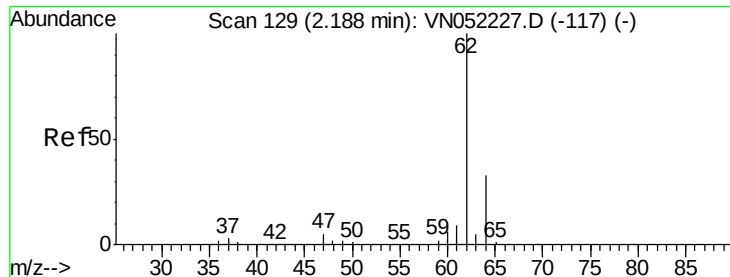
20000

10000

0

Time-->





#4

Vinyl Chloride

Concen: 0.230 ug/l

RT: 2.20 min Scan# 132

Delta R.T. 0.01 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

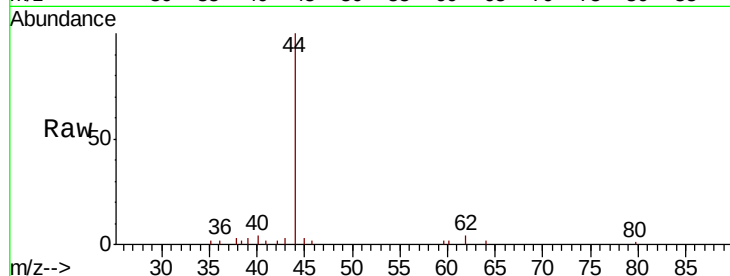
CARBON-DNM

Tot Ion: 62 Resp: 902

Ion Ratio Lower Upper

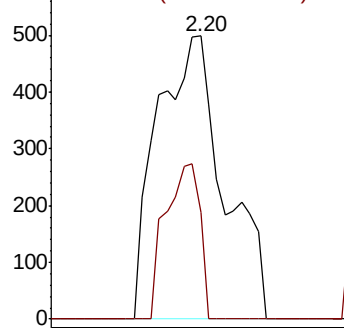
62 100

64 37.6 26.1 39.1

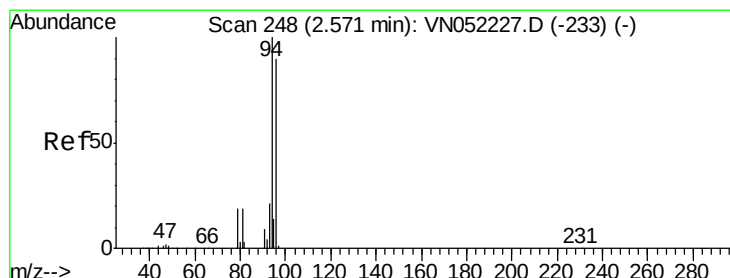
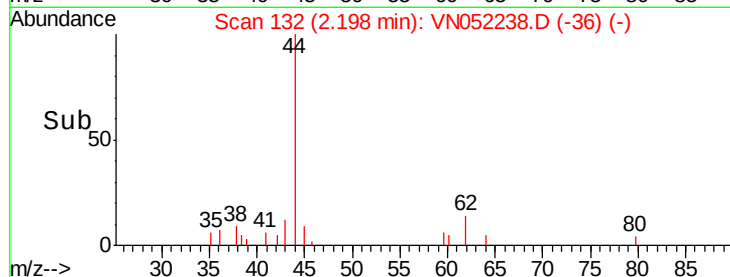


Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



Time-->



#5

Bromomethane

Concen: 0.270 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.02 min

Lab File: VN052238.D

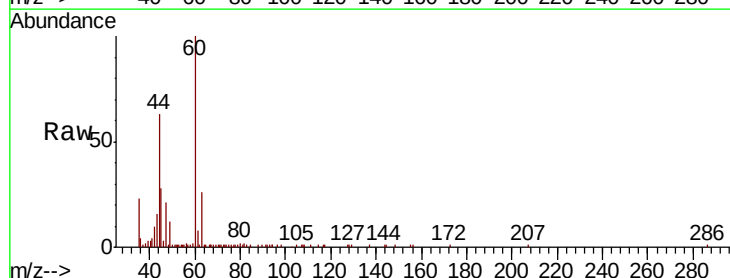
Acq: 9 Nov 2018 20:15

Tgt Ion: 94 Resp: 674

Ion Ratio Lower Upper

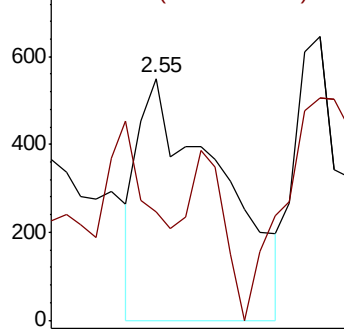
94 100

96 2.3 71.8 107.8#

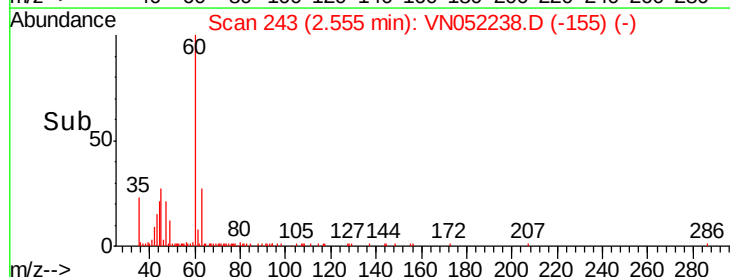


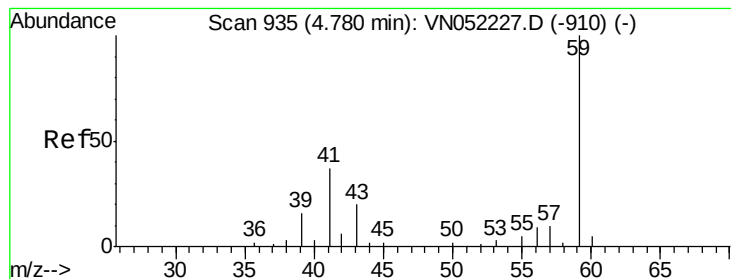
Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



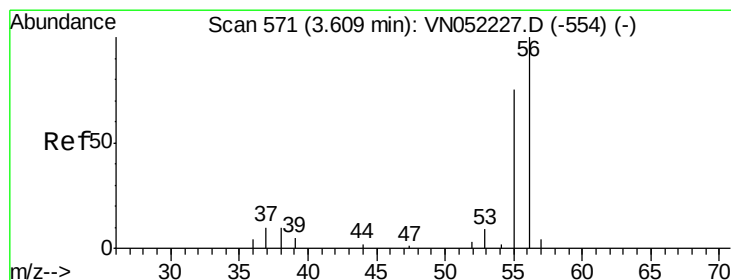
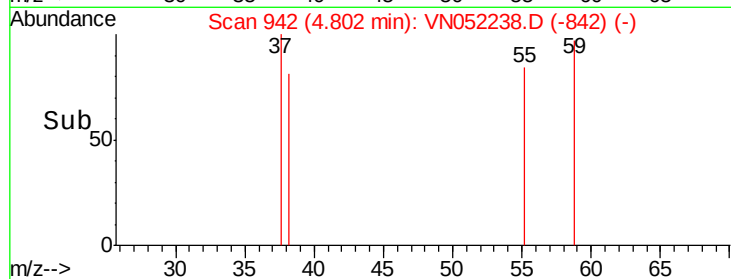
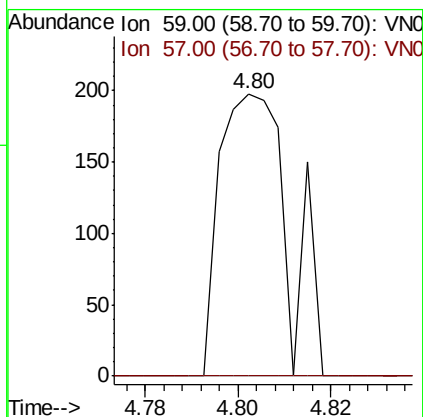
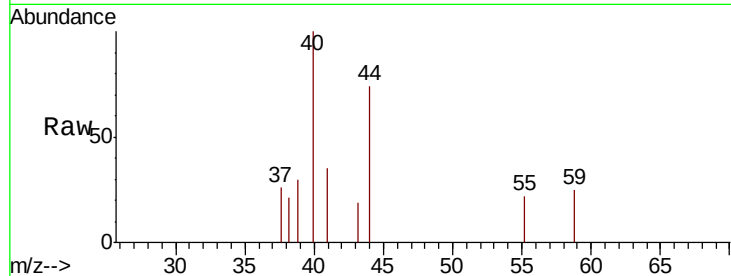


#11

Tert butyl alcohol
 Concen: 0.937 ug/l
 RT: 4.80 min Scan# 942
 Delta R.T. 0.02 min
 Lab File: VN052238.D
 Acq: 9 Nov 2018 20:15

Instrument :
 MSVOA_N
 ClientSampleId :
 CARBON-DNM

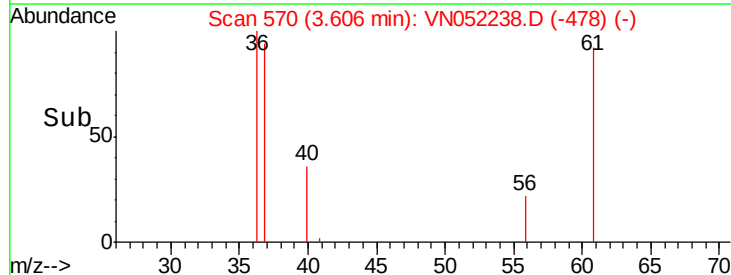
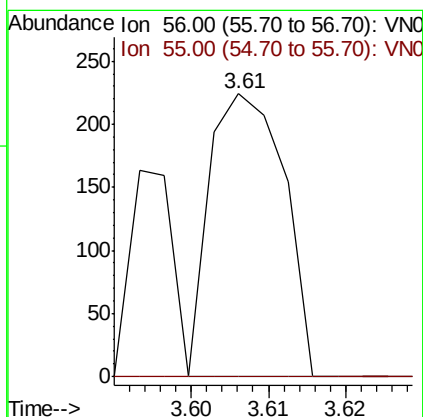
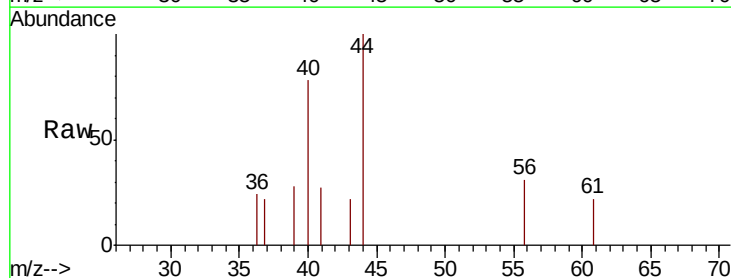
Tot Ion: 59 Resp: 204
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

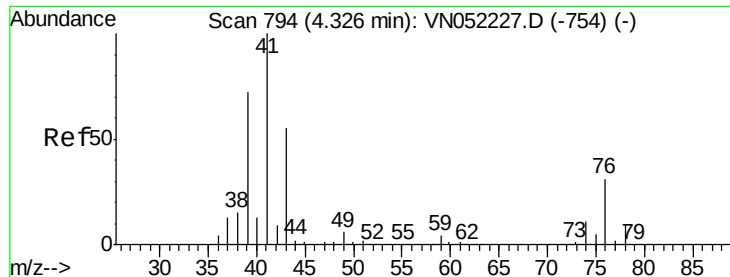


#13

Acrolein
 Concen: 34.483 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VN052238.D
 Acq: 9 Nov 2018 20:15

Tgt Ion: 56 Resp: 150
 Ion Ratio Lower Upper
 56 100
 55 0.0 59.9 89.9#





#14

Allvl chloride

Concen: 177.034 ug/l

RT: 4.27 min Scan# 777

Delta R.T. -0.05 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM

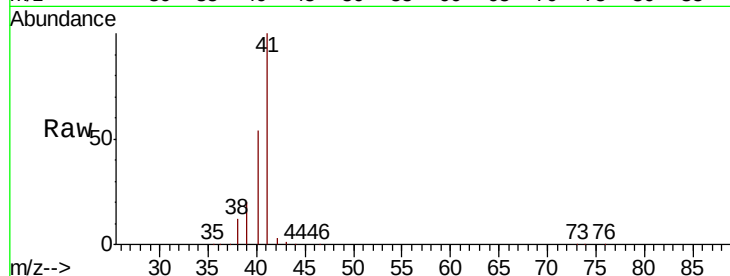
Tot Ion: 41 Resp: 1203493

Ion Ratio Lower Upper

41 100

39 19.3 55.1 82.7#

76 0.0 23.6 35.4#



Abundance Ion 41.00 (40.70 to 41.70): VN052238.D (-701) (-)

Ion 39.00 (38.70 to 39.70): VN052238.D (-701) (-)

Ion 75.90 (75.60 to 76.60): VN052238.D (-701) (-)

4.27

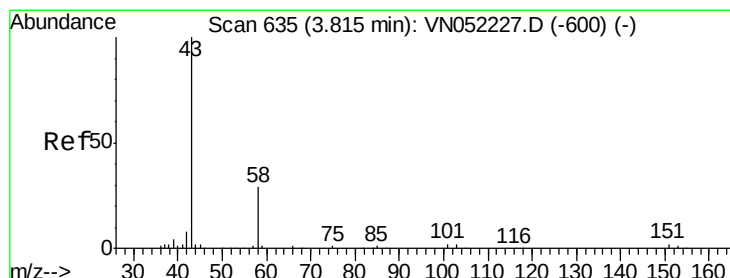
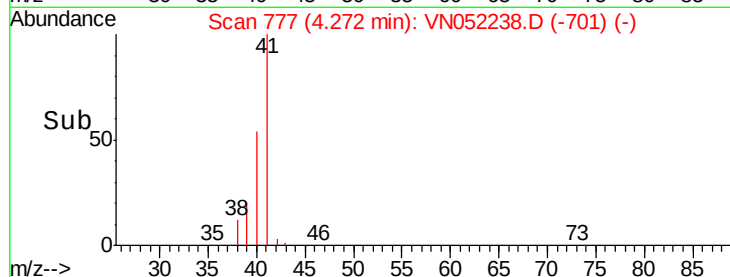
300000

200000

100000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052238.D

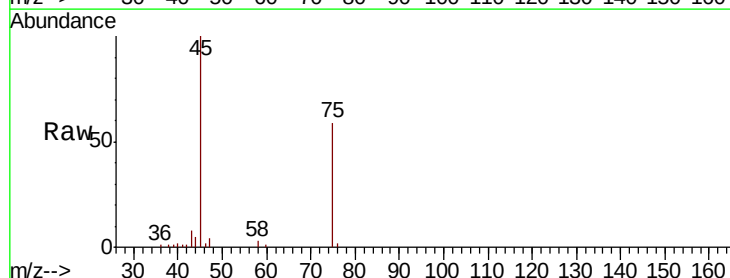
Acq: 9 Nov 2018 20:15

Tgt Ion: 43 Resp: 9538

Ion Ratio Lower Upper

43 100

58 31.1 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN052238.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052238.D (-542) (-)

3.83

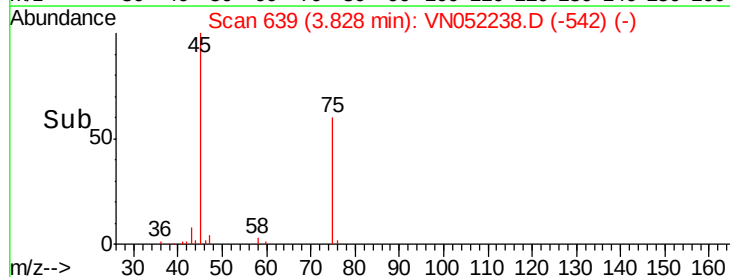
3000

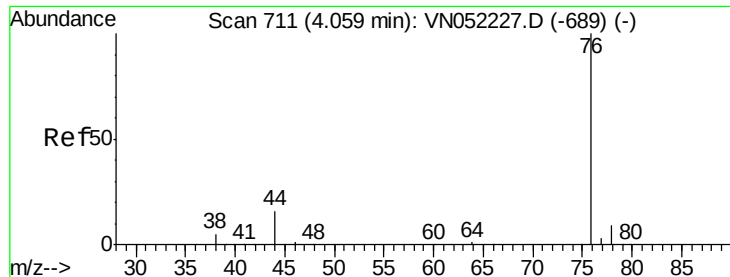
2000

1000

0

Time-->

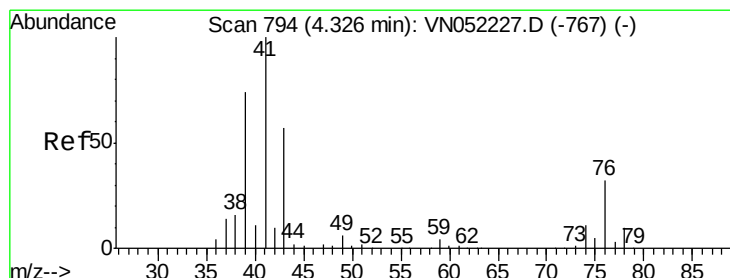
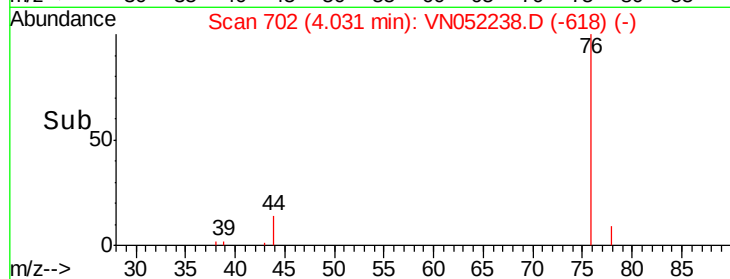
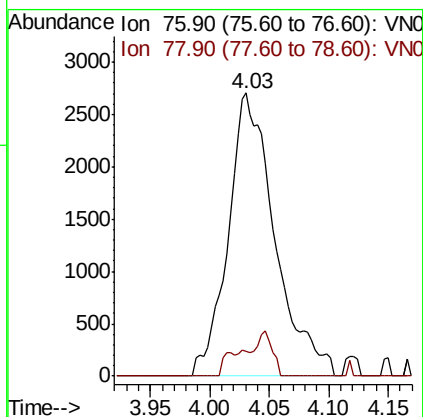
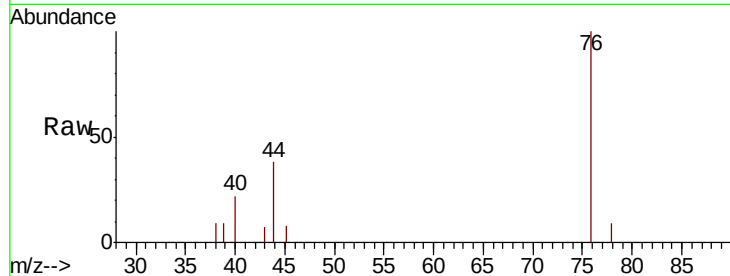




#17
Carbon Disulfide
Concen: 0.780 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.03 min
Lab File: VN052238.D
Acq: 9 Nov 2018 20:15

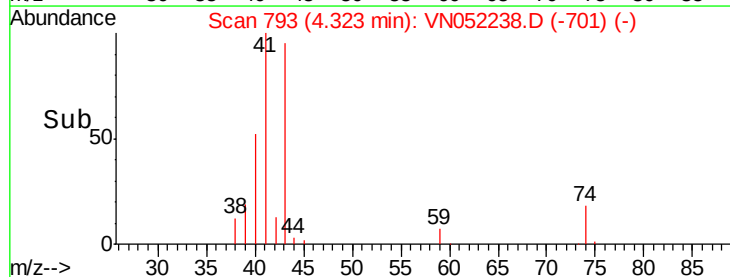
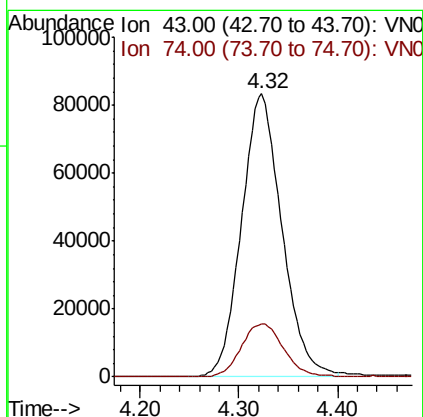
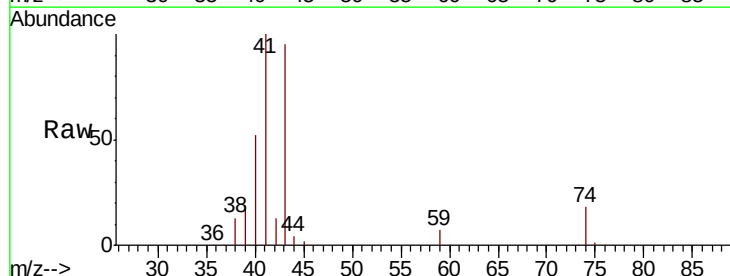
Instrument :
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ClientSampleId :
CARBON-DNM

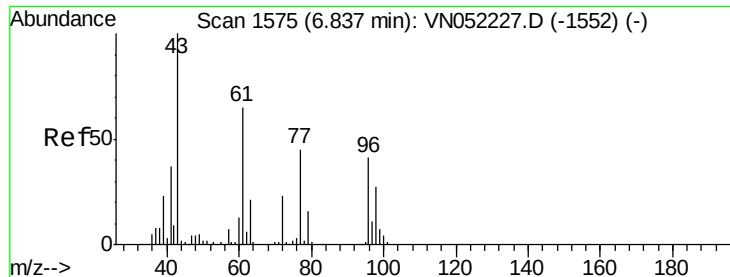
Tot Ion: 76 Resp: 7344
Ion Ratio Lower Upper
76 100
78 8.9 7.3 10.9



#18
Methyl Acetate
Concen: 66.150 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052238.D
Acq: 9 Nov 2018 20:15

Tgt Ion: 43 Resp: 234783
Ion Ratio Lower Upper
43 100
74 20.0 16.2 24.2





#25

2-Butanone

Concen: 0.307 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

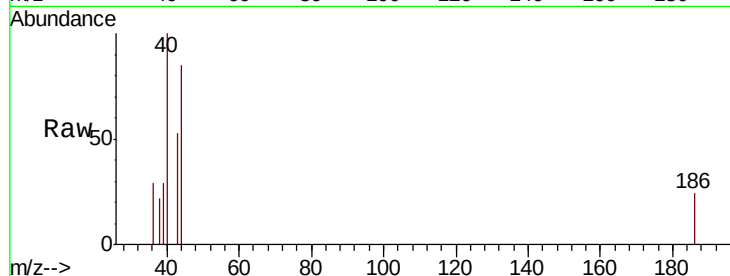
CARBON-DNM

Tot Ion: 43 Resp: 556

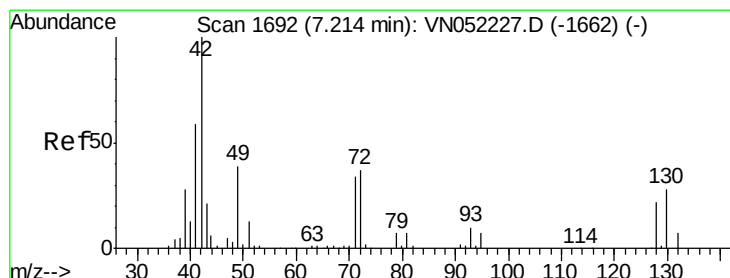
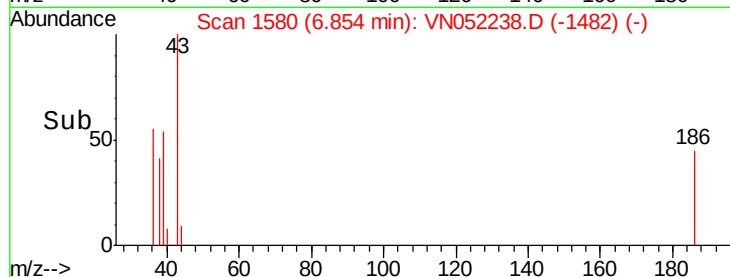
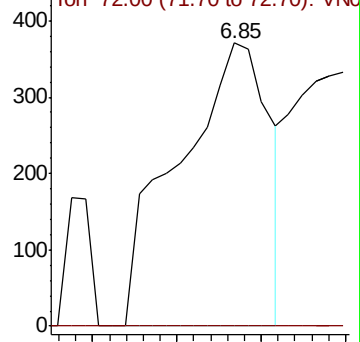
Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0



#29

Tetrahydrofuran

Concen: 52.045 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

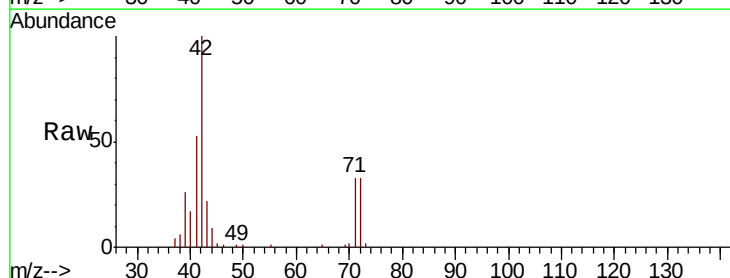
Tgt Ion: 42 Resp: 61374

Ion Ratio Lower Upper

42 100

72 34.4 28.6 43.0

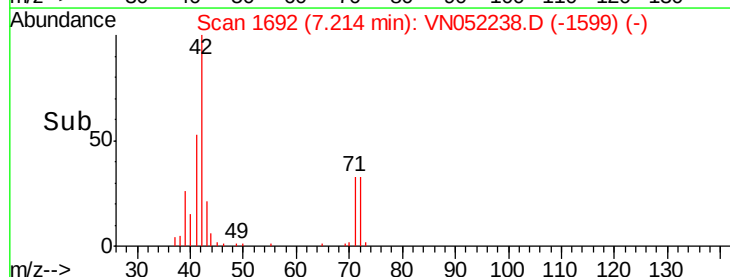
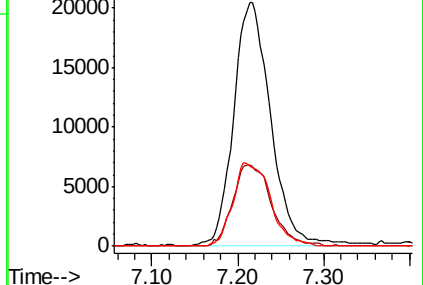
71 34.3 27.1 40.7

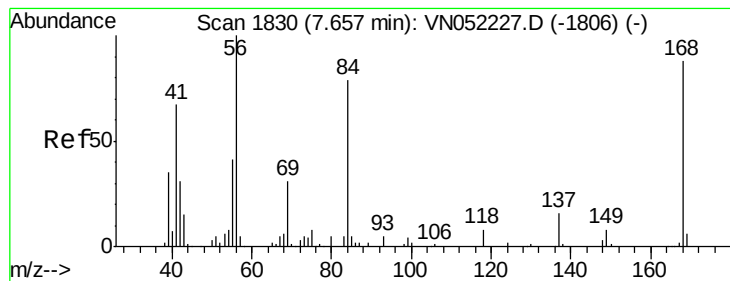


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.614 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM

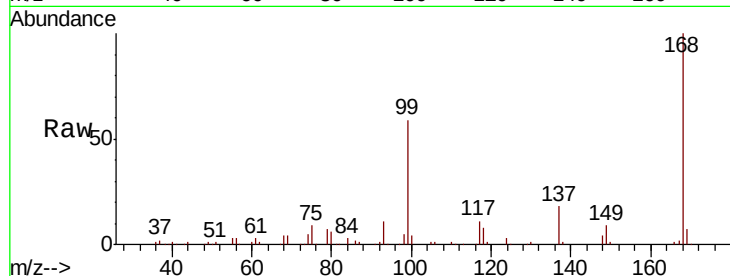
Tot Ion: 56 Resp: 8509

Ion Ratio Lower Upper

56 100

69 140.9 24.8 37.2#

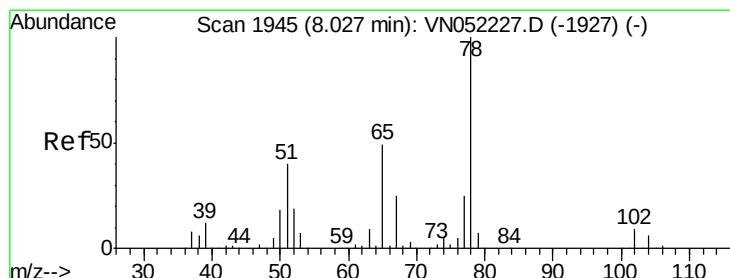
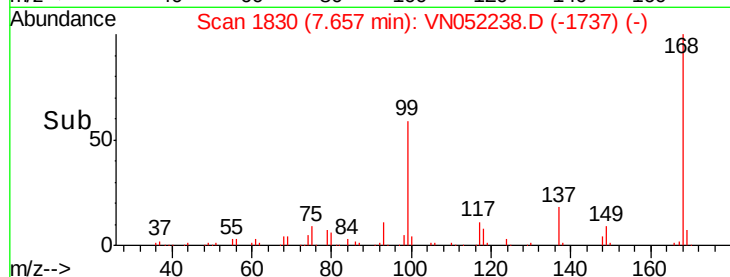
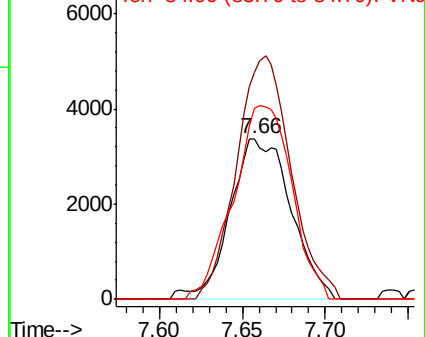
84 118.6 63.1 94.7#



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: Below ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN052238.D

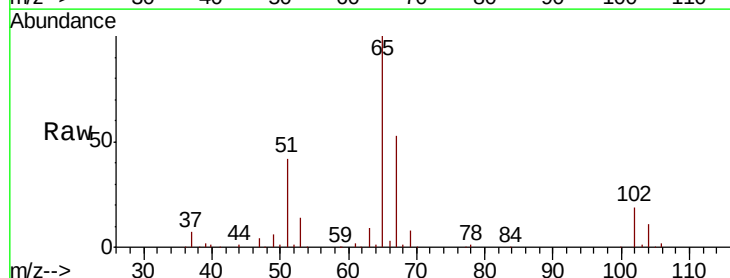
Acq: 9 Nov 2018 20:15

Tgt Ion: 65 Resp: 194447

Ion Ratio Lower Upper

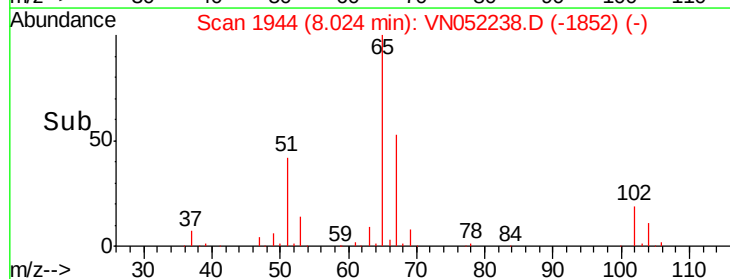
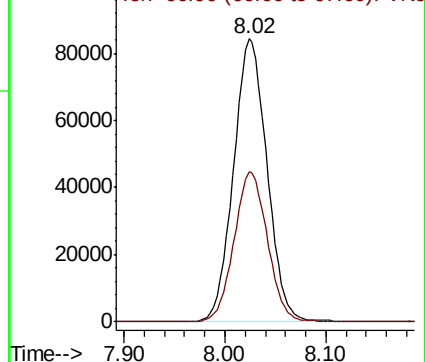
65 100

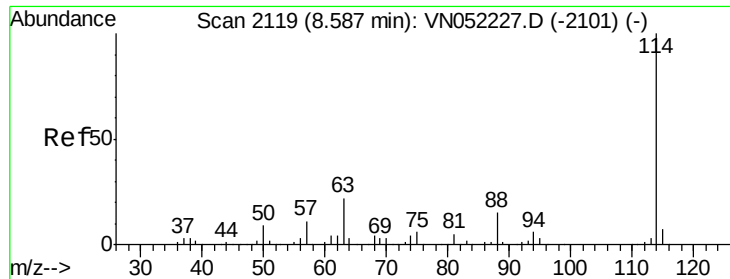
67 52.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

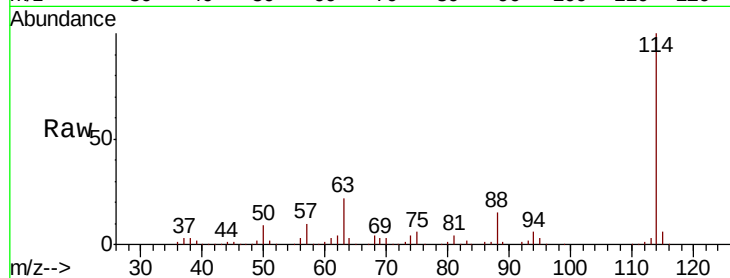




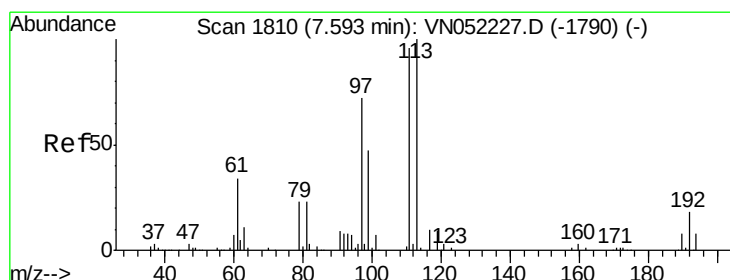
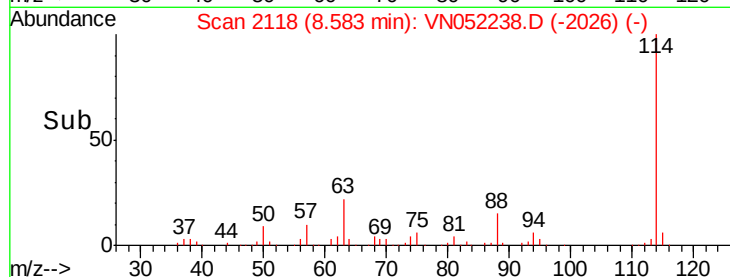
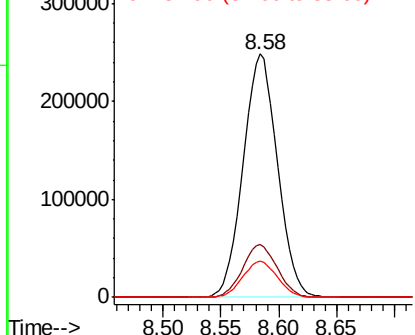
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN052238.D
Acq: 9 Nov 2018 20:15

Instrument :
MSVOA_N
ClientSampleId :
CARBON-DNM

Tot Ion:114 Resp: 512729
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.4
88 14.9 0.0 30.2

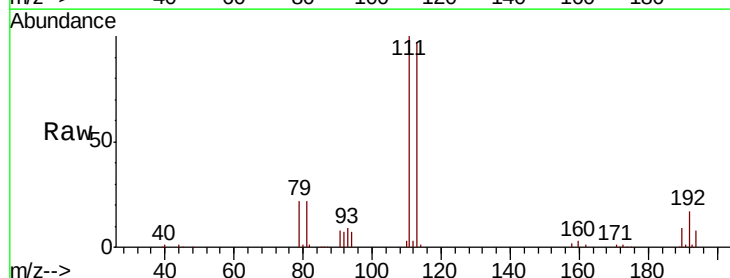


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

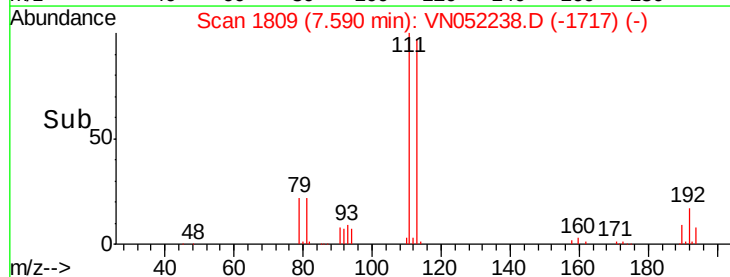
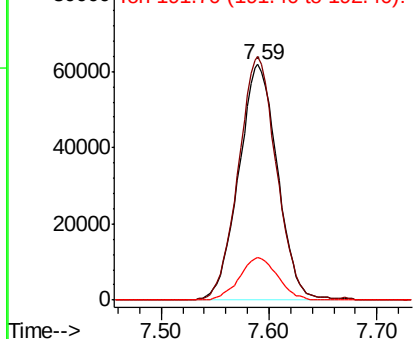


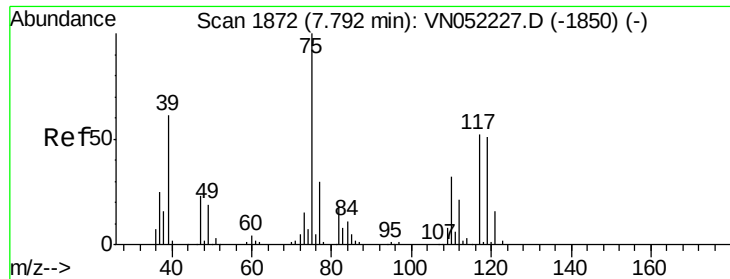
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052238.D
Acq: 9 Nov 2018 20:15

Tgt Ion:113 Resp: 154259
Ion Ratio Lower Upper
113 100
111 102.0 80.2 120.4
192 17.8 14.1 21.1



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

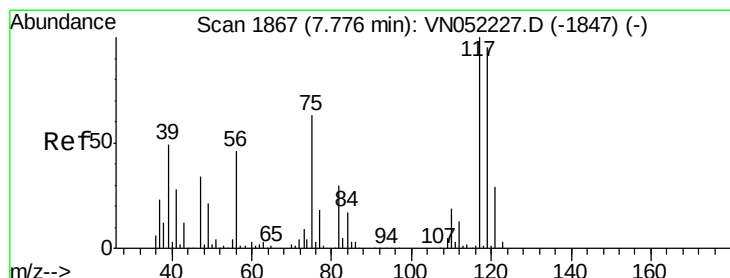
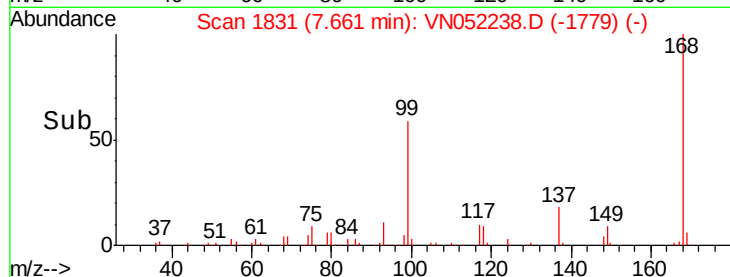
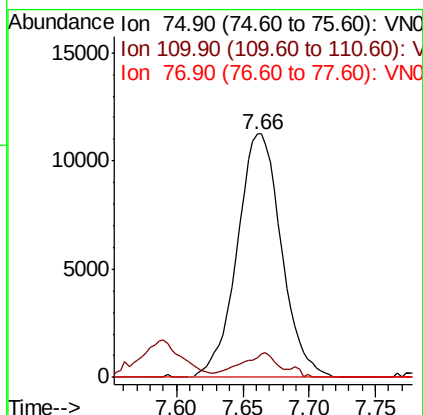
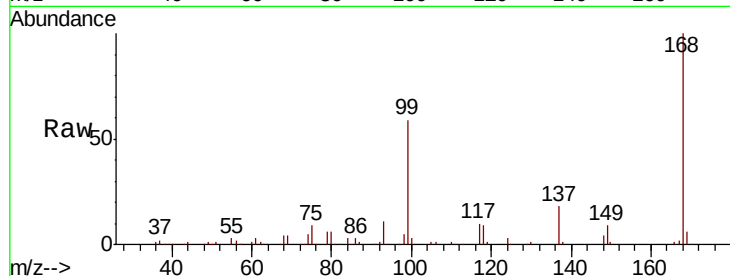




#36
 1,1-Dichloropropene
 Concen: 5.040 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN052238.D
 Acq: 9 Nov 2018 20:15

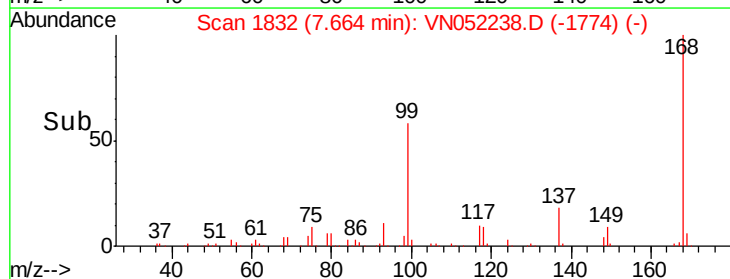
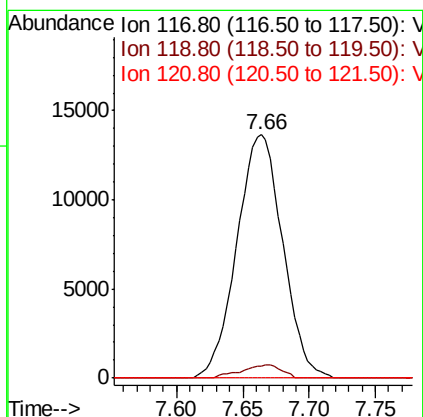
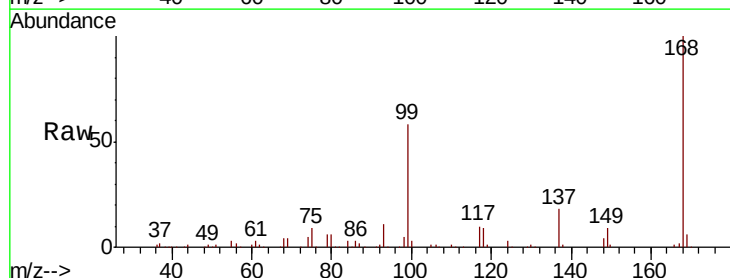
Instrument :
 MSVOA_N
 ClientSampleId :
 CARBON-DNM

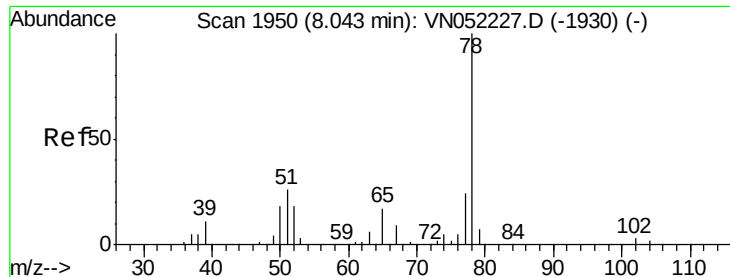
Tot Ion: 75 Resp: 26083
 Ion Ratio Lower Upper
 75 100
 110 5.7 16.4 49.4#
 77 0.0 23.9 35.9#



#38
 Carbon Tetrachloride
 Concen: 7.007 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052238.D
 Acq: 9 Nov 2018 20:15

Tgt Ion: 117 Resp: 32861
 Ion Ratio Lower Upper
 117 100
 119 5.1 75.8 113.8#
 121 0.0 23.4 35.2#





#40

Benzene

Concen: 0.216 ug/l

RT: 8.05 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

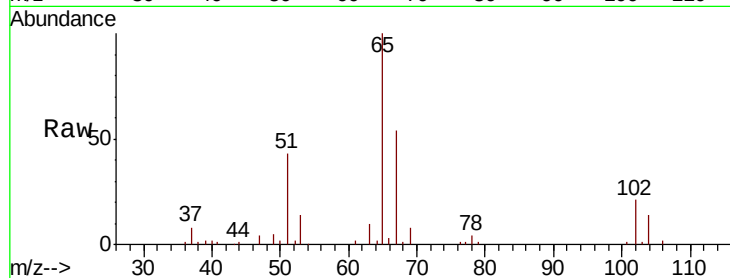
CARBON-DNM

Tot Ion: 78 Resp: 3205

Ion Ratio Lower Upper

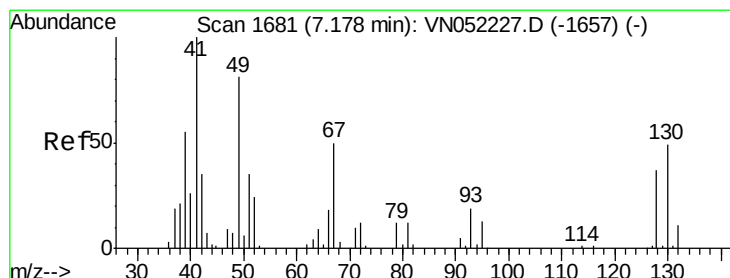
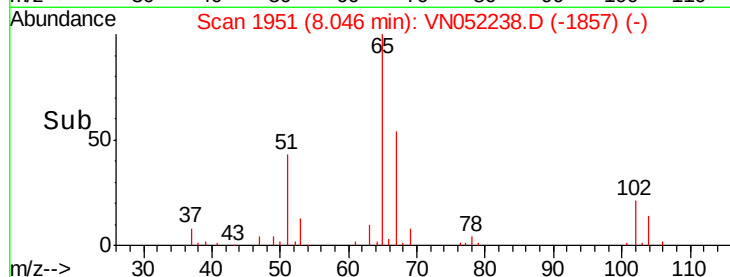
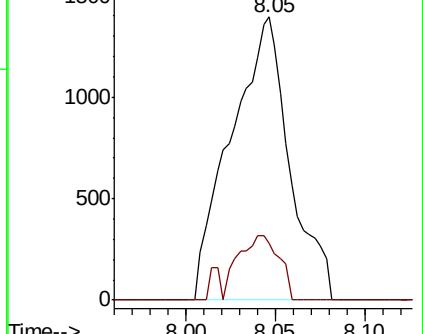
78 100

77 19.9 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#41

Methacrylonitrile

Concen: 15.176 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.04 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Tgt Ion: 41 Resp: 34325

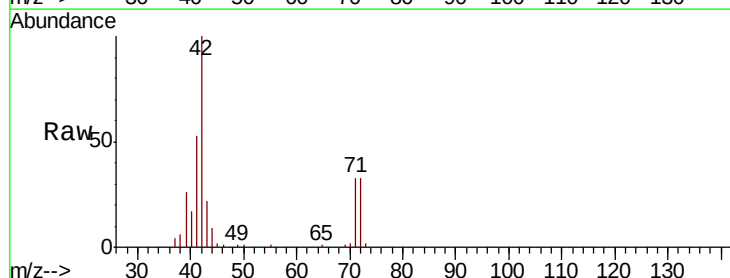
Ion Ratio Lower Upper

41 100

39 46.0 47.8 71.6#

67 0.2 54.3 81.5#

52 0.0 26.2 39.4#

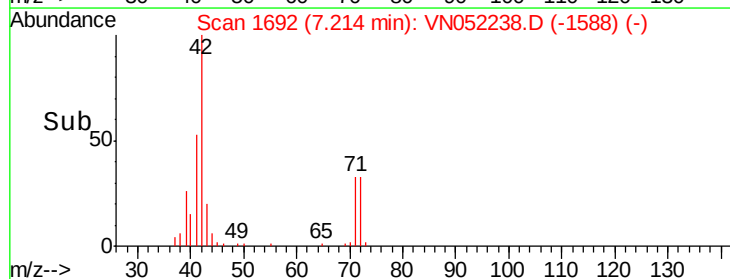
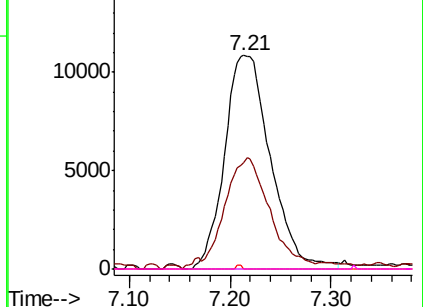


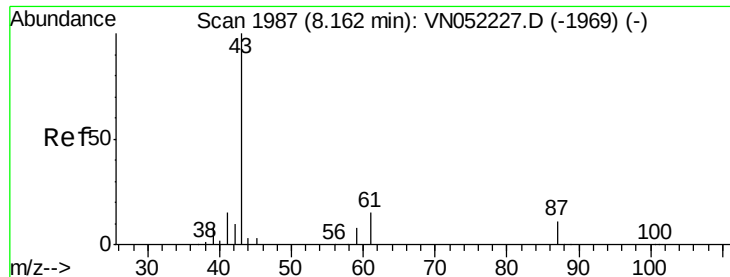
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#43

Isopropyl Acetate

Concen: 0.566 ug/l

RT: 8.19 min Scan# 1995

Delta R.T. 0.03 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM

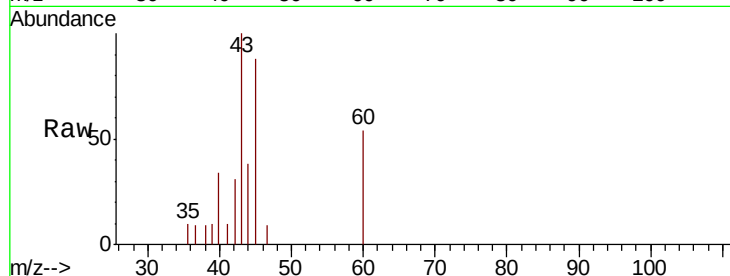
Tot Ion: 43 Resp: 3840

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

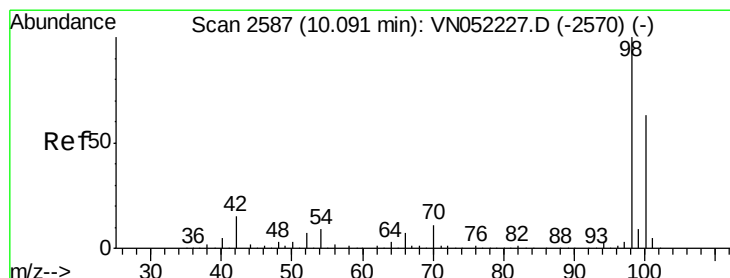
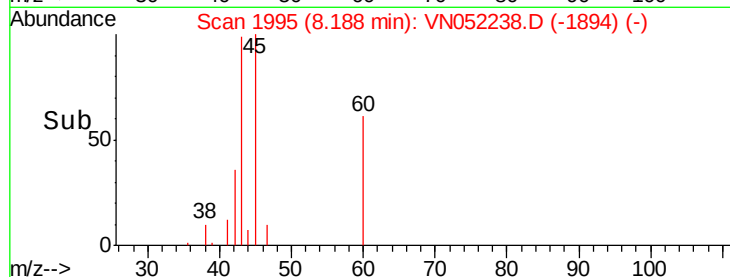
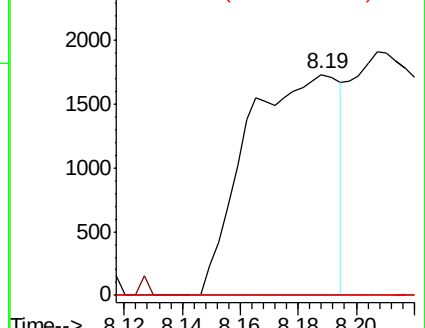
87 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN052227.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN052227.D (-1969) (-)



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN052238.D

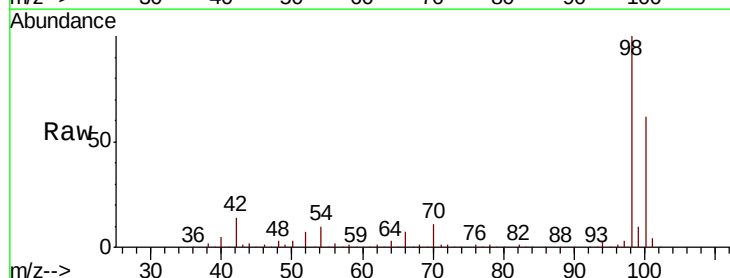
Acq: 9 Nov 2018 20:15

Tgt Ion: 98 Resp: 630796

Ion Ratio Lower Upper

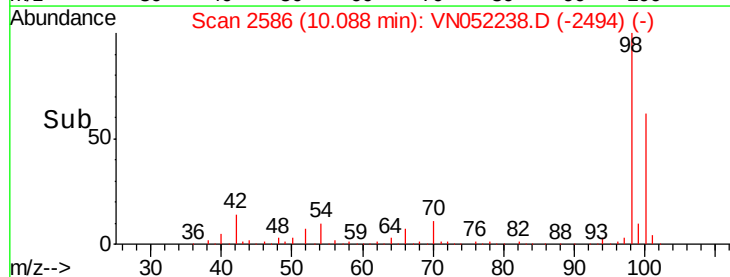
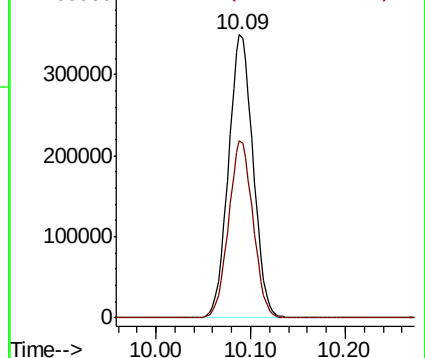
98 100

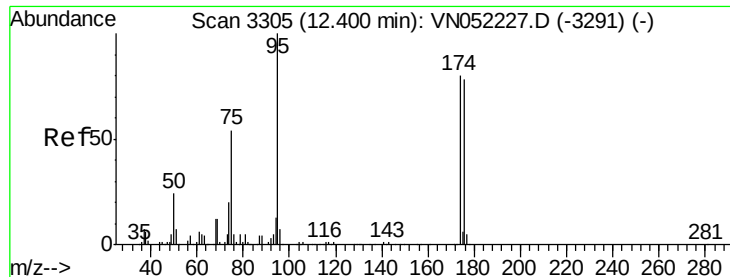
100 61.9 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN052227.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052227.D (-2570) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM

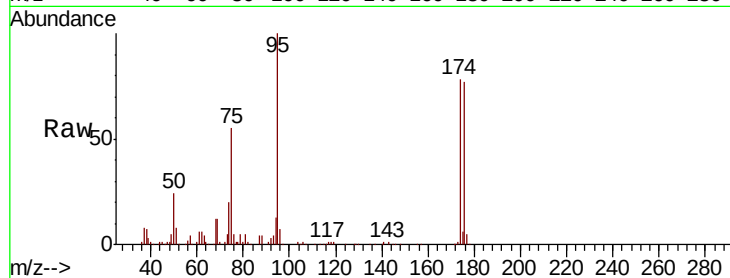
Tot Ion: 95 Resp: 191381

Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.4

176 76.5 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN052238.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052238.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052238.D (-2903) (-)

12.40

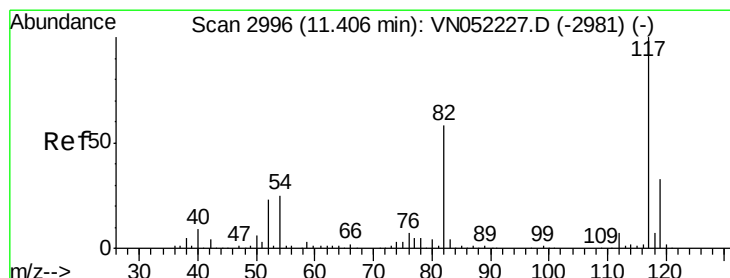
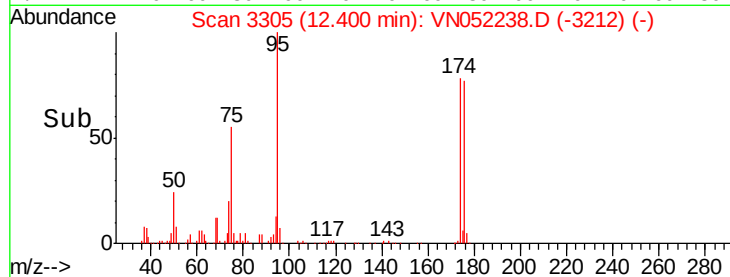
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

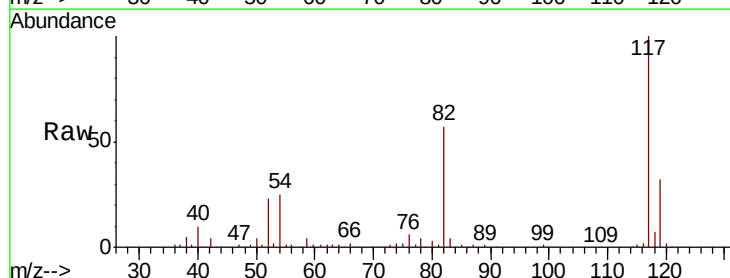
Tgt Ion: 117 Resp: 429815

Ion Ratio Lower Upper

117 100

82 56.9 46.2 69.2

119 32.2 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN052238.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052238.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052238.D (-2903) (-)

11.41

300000

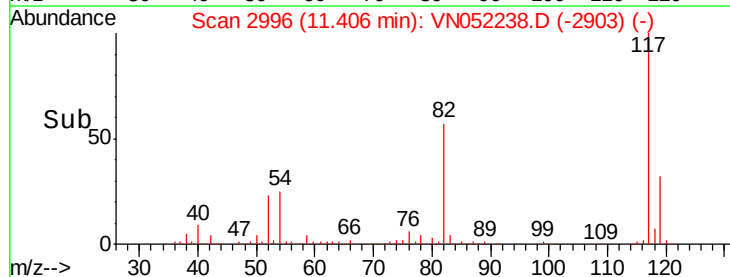
200000

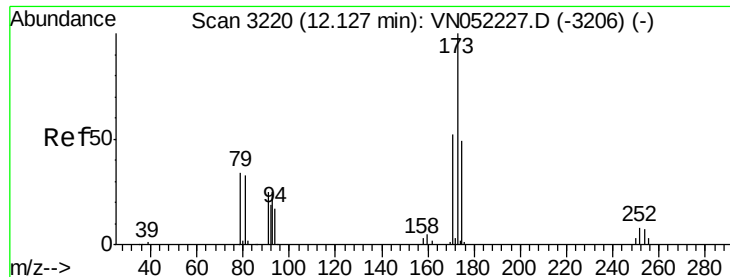
100000

0

11.35 11.40 11.45 11.50

Time-->





#71

Bromoform

Concen: 0.925 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM

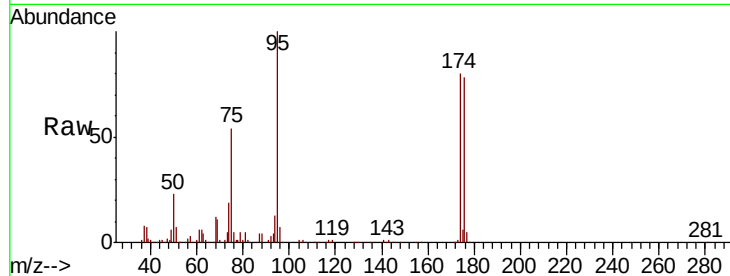
Tot Ion:173 Resp: 1703

Ion Ratio Lower Upper

173 100

175 626.4 24.5 73.5#

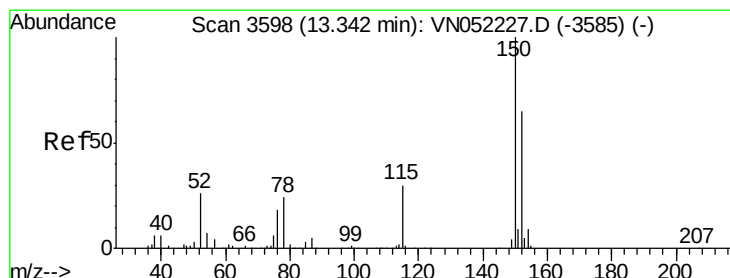
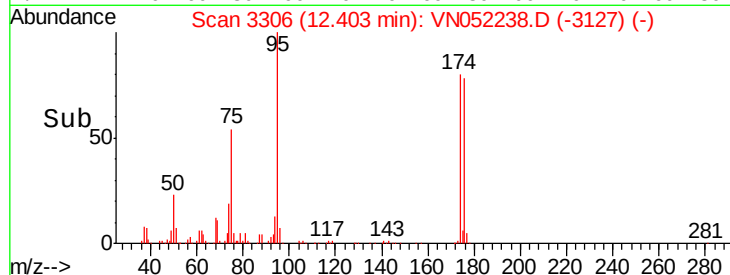
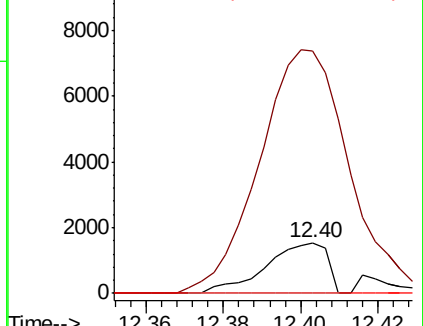
254 0.0 0.0 0.0



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: VN052238.D

Acq: 9 Nov 2018 20:15

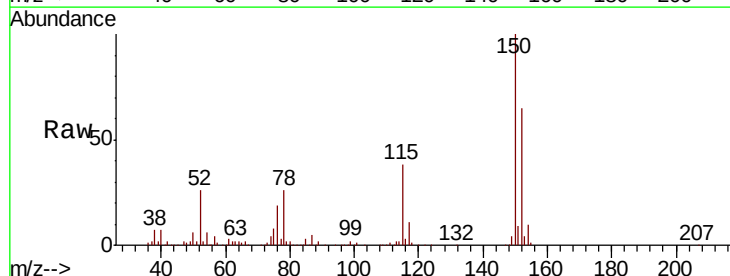
Tgt Ion:152 Resp: 176658

Ion Ratio Lower Upper

152 100

115 60.0 29.8 89.5

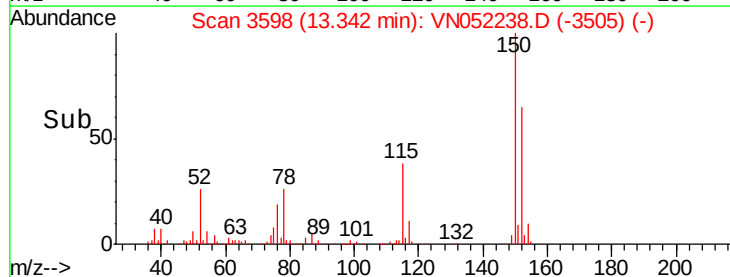
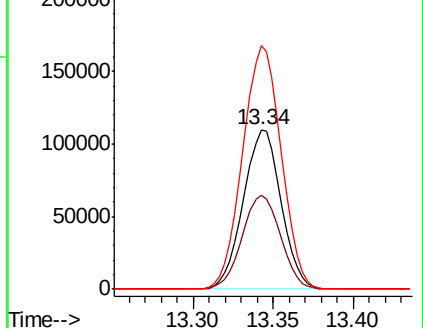
150 156.0 0.0 350.2

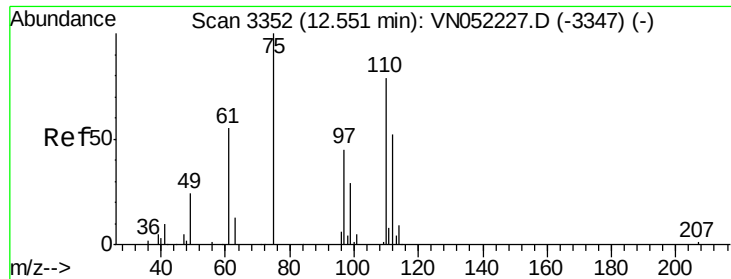


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.347 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

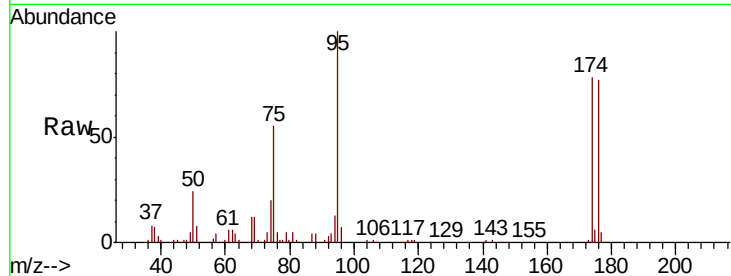
CARBON-DNM

Tot Ion: 75 Resp: 104226

Ion Ratio Lower Upper

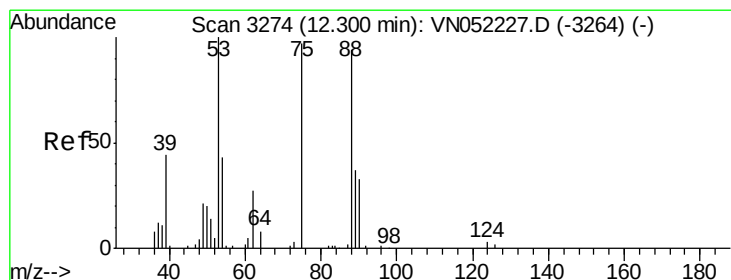
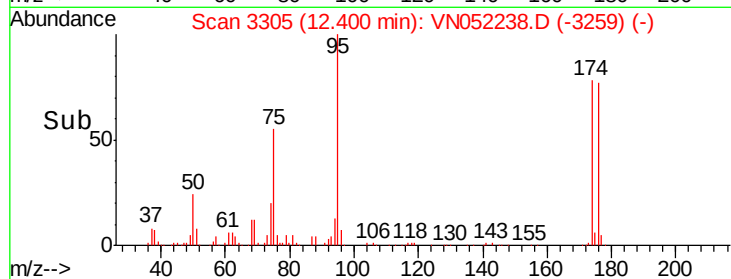
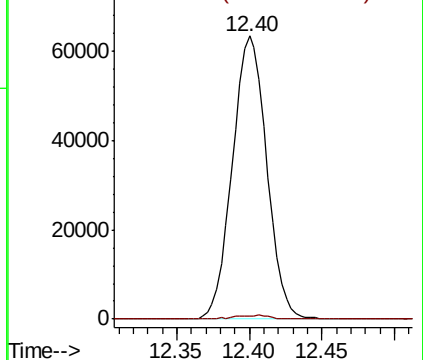
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 113.827 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052238.D

Acq: 9 Nov 2018 20:15

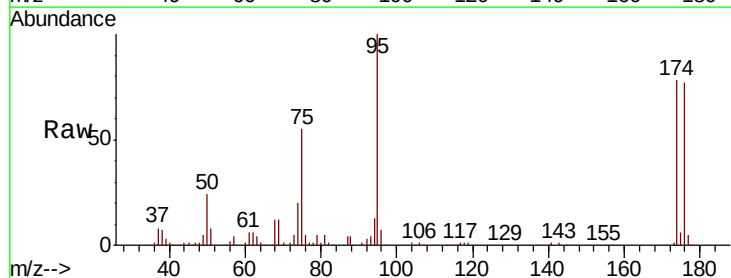
Tgt Ion: 75 Resp: 104226

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

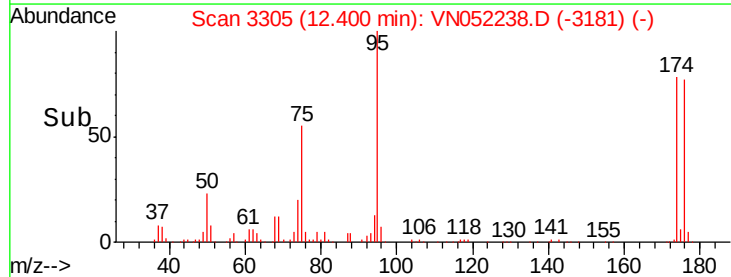
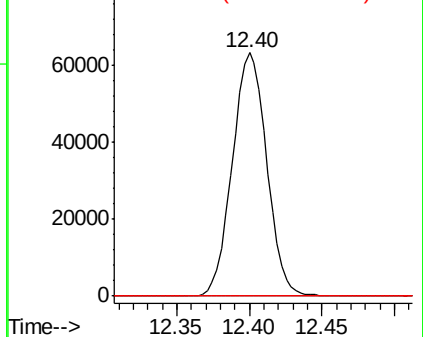
89 0.0 33.7 50.5#

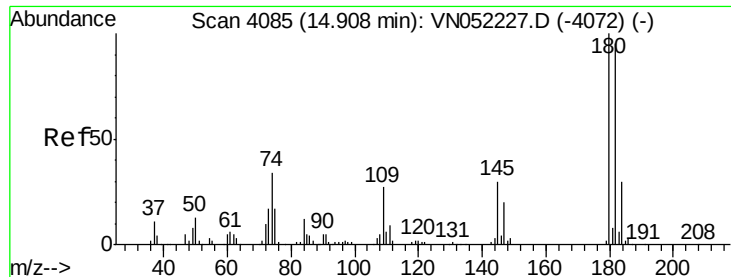


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#93

1,2,4-Trichlorobenzene

Concen: 0.255 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN052238.D

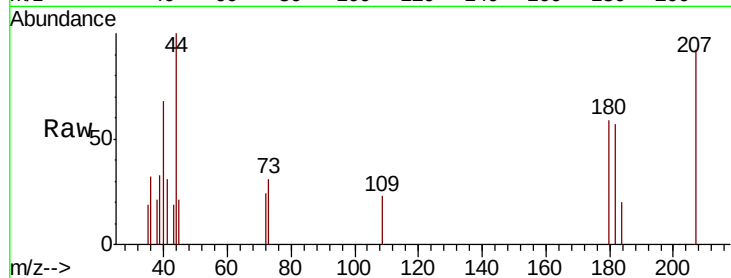
Acq: 9 Nov 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

CARBON-DNM



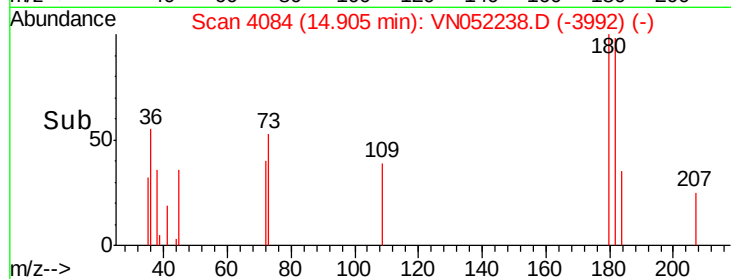
Tot Ion:180 Resp: 578

Ion Ratio Lower Upper

180 100

182 100.0 47.3 142.0

145 12.8 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->

14.88 14.90 14.92 14.94

14.90

14.90

14.90

14.90

14.90

14.90

14.90

14.90

14.90

14.90