

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050503.D
 Acq On : 9 Aug 2018 23:17
 Operator : MD\SY
 Sample : J4352-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 07:27:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	127276	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	652745	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	545992	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	258788	29.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.70%
60) 4-Bromofluorobenzene	12.40	95	195062	23.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	77.50%
63) Toluene-d8	10.09	98	756554	29.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.70%

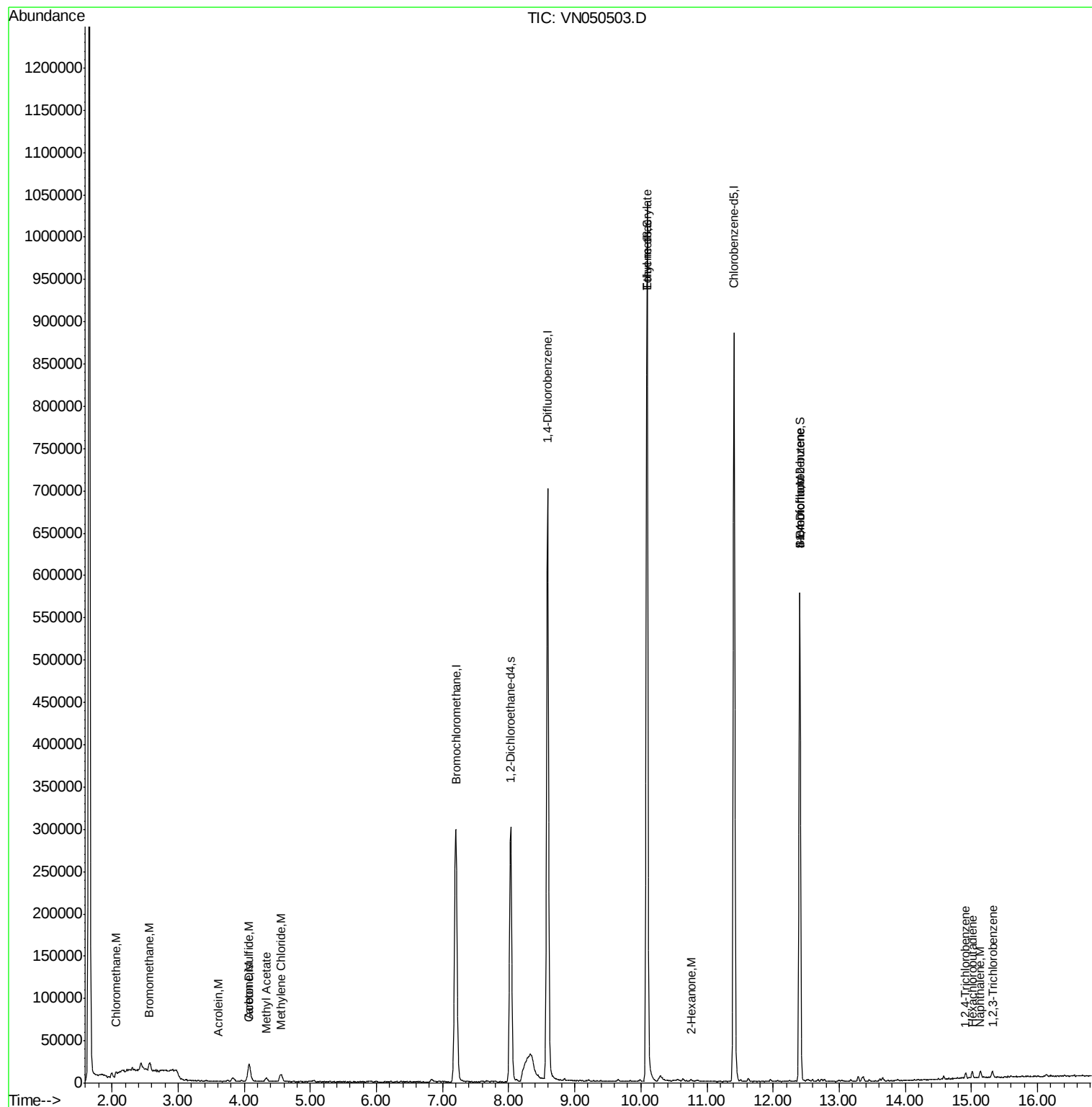
Target Compounds					Ovalue
3) Chloromethane	2.06	50	3387	0.37 ug/l	97
5) Bromomethane	2.57	94	5552	0.95 ug/l	97
12) Methyl Acetate	4.33	43	3781	0.49 ug/l #	85
13) Acrolein	3.62	56	196	0.41 ug/l #	70
15) Acetone	4.08	58	585	0.85 ug/l	76
16) Carbon Disulfide	4.05	76	6422	0.31 ug/l	99
18) Methylene Chloride	4.55	84	4860	0.62 ug/l	90
51) Ethyl methacrylate	10.10	69	2333	0.27 ug/l	88
56) Bromoform	12.41	173	1958	0.34 ug/l #	1
59) 2-Hexanone	10.75	43	2340	0.54 ug/l #	59
77) t-1,4-Dichloro-2-butene	12.40	75	92598	38.91 ug/l #	14
89) 1,2,4-Trichlorobenzene	14.91	180	2550	0.38 ug/l	99
90) Hexachlorobutadiene	15.01	225	1941	0.44 ug/l	77
91) Naphthalene	15.13	128	7370	7.99 ug/l #	87
92) 1,2,3-Trichlorobenzene	15.32	180	3079	0.45 ug/l	90

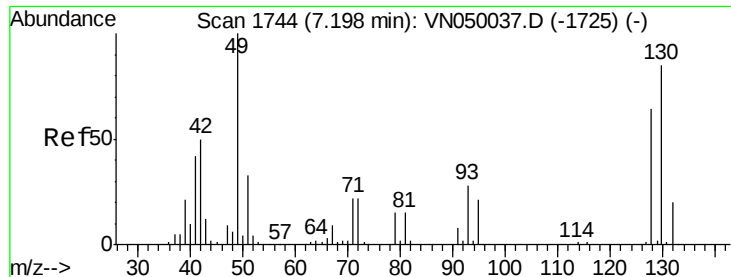
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :
MSVOA_N
ClientSampleId :

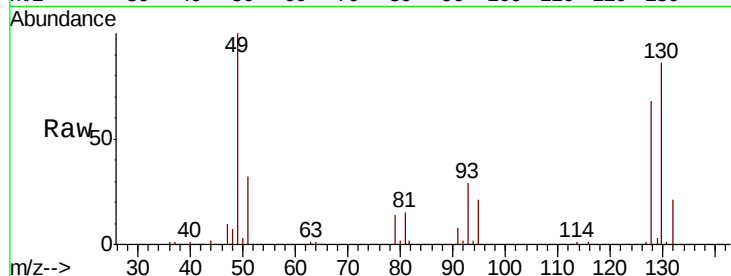
Tot Ion:128 Resp: 127276

Ion Ratio Lower Upper

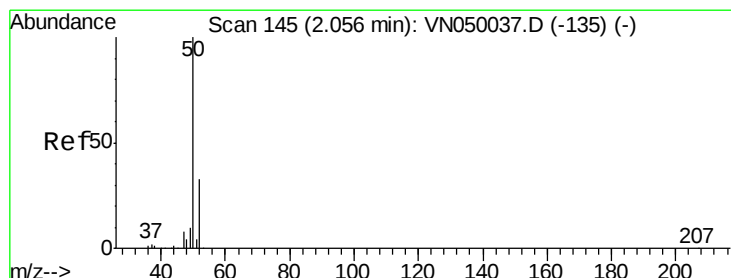
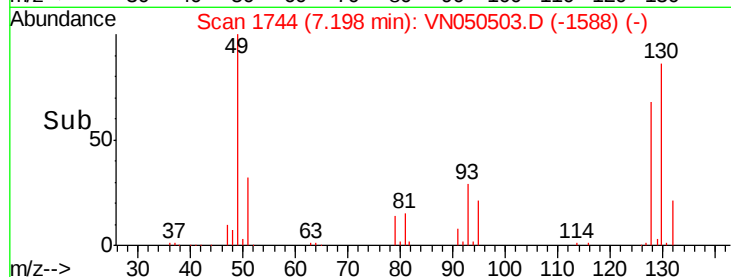
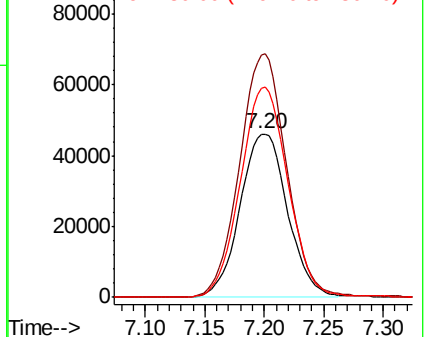
128 100

49 147.9 0.0 378.3

130 129.1 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.37 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050503.D

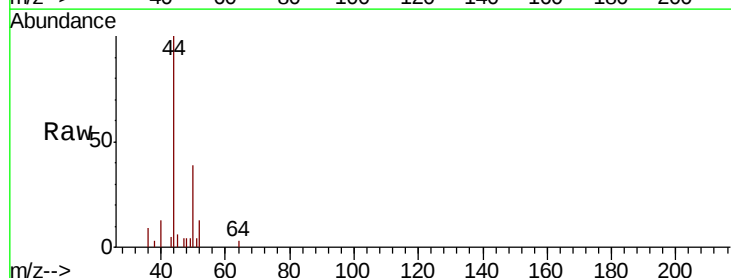
Acq: 9 Aug 2018 23:17

Tgt Ion: 50 Resp: 3387

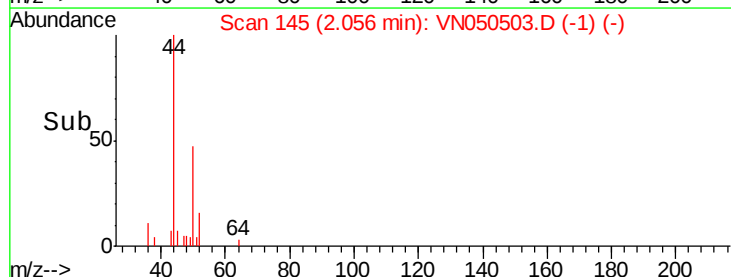
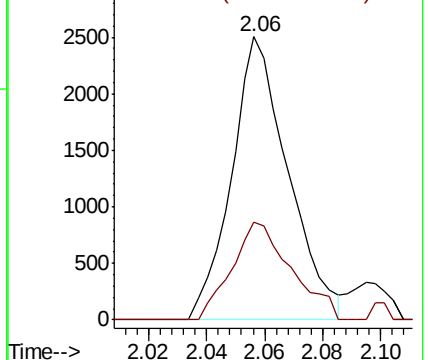
Ion Ratio Lower Upper

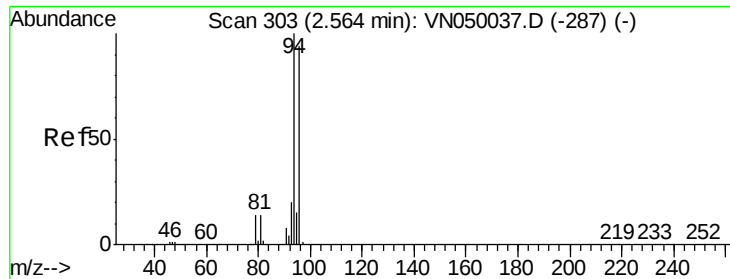
50 100

52 34.5 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.95 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

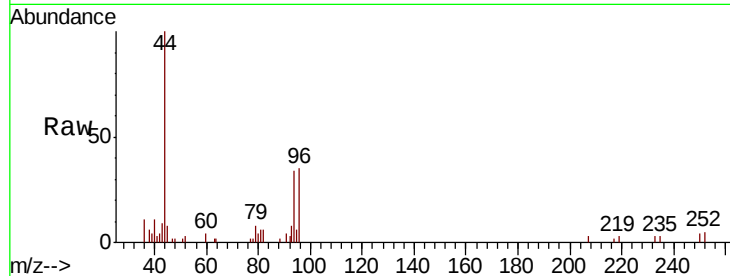
ClientSampleId :

Tot Ion: 94 Resp: 5552

Ion Ratio Lower Upper

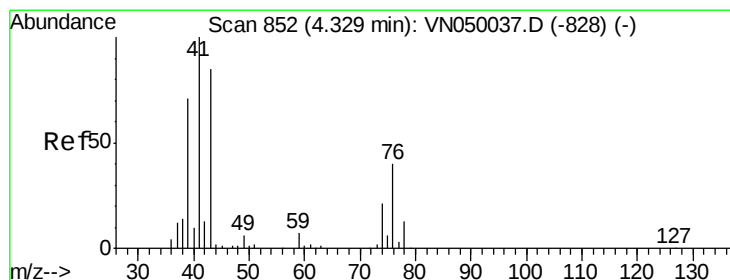
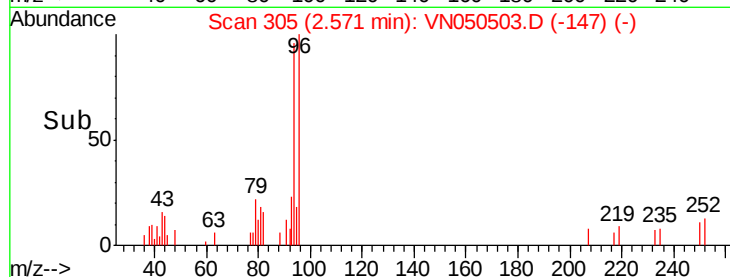
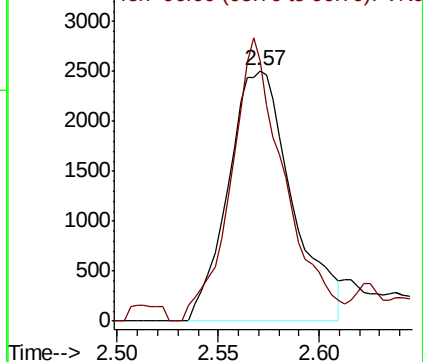
94 100

96 97.8 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 0.49 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050503.D

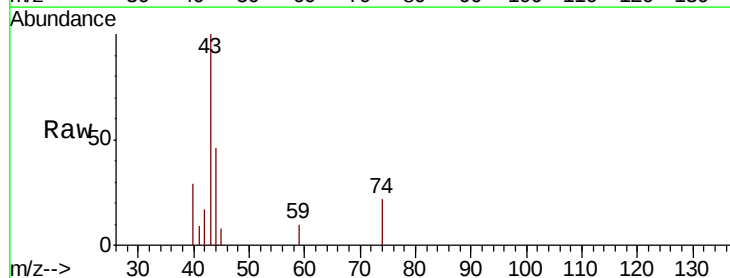
Acq: 9 Aug 2018 23:17

Tgt Ion: 43 Resp: 3781

Ion Ratio Lower Upper

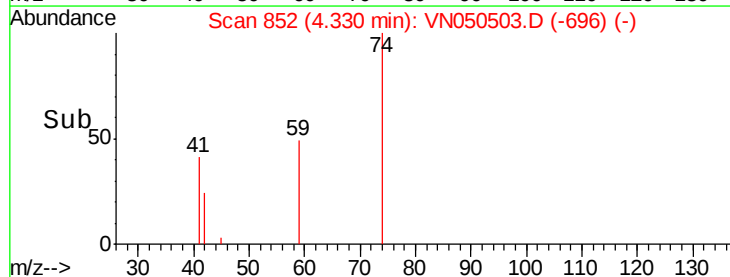
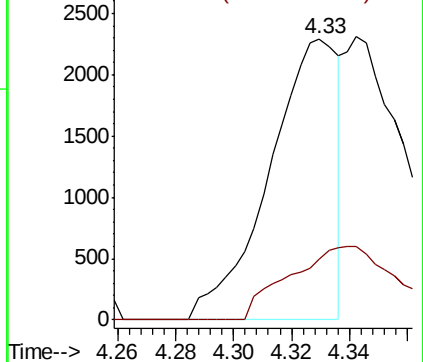
43 100

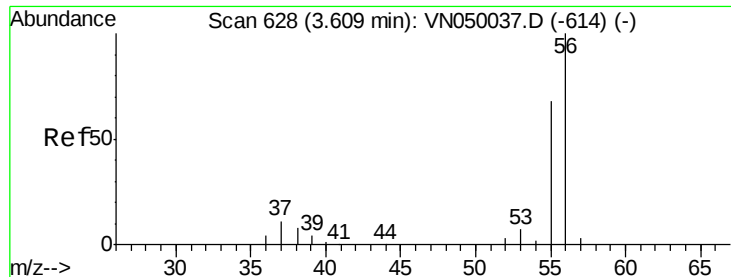
74 16.6 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.41 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

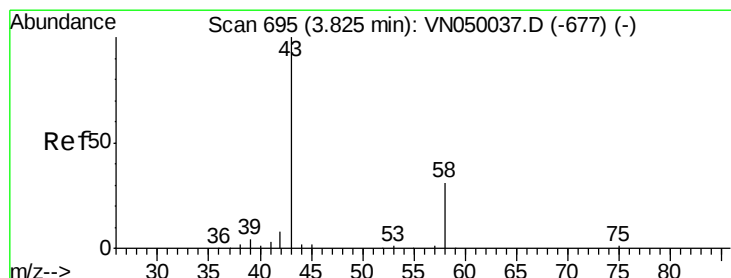
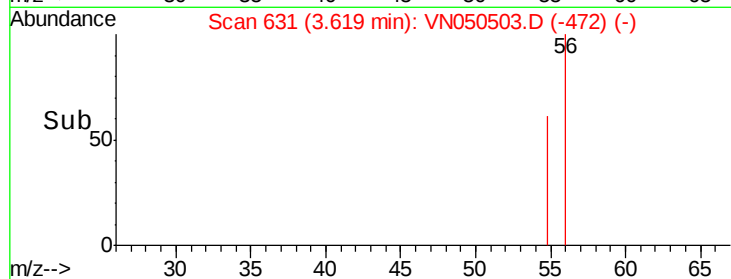
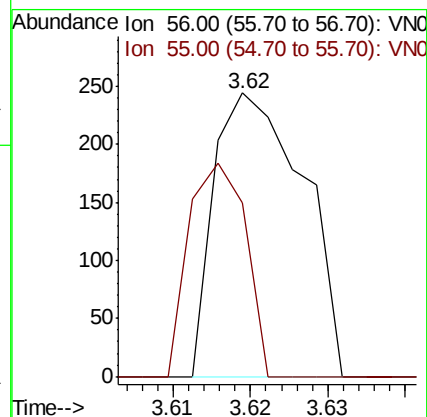
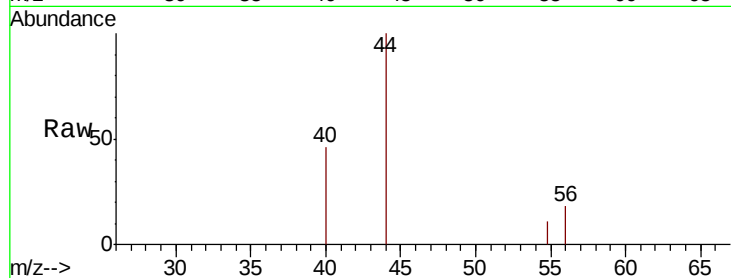
ClientSampled :

Tot Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 48.0 58.6 88.0#



#15

Acetone

Concen: 0.85 ug/l

RT: 4.08 min Scan# 775

Delta R.T. 0.26 min

Lab File: VN050503.D

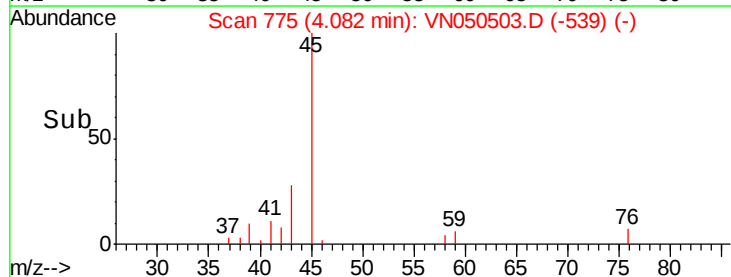
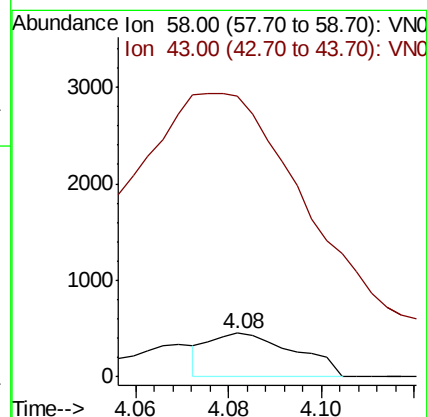
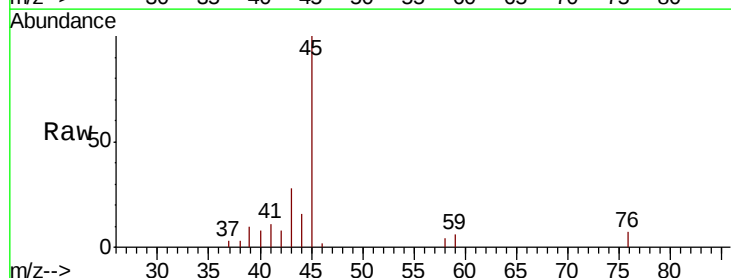
Acq: 9 Aug 2018 23:17

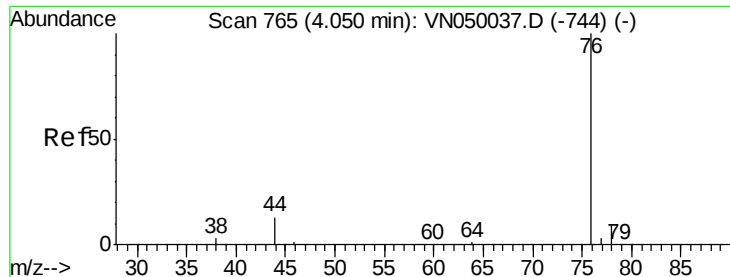
Tgt Ion: 58 Resp: 585

Ion Ratio Lower Upper

58 100

43 362.8 252.0 378.0





#16

Carbon Disulfide

Concen: 0.31 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

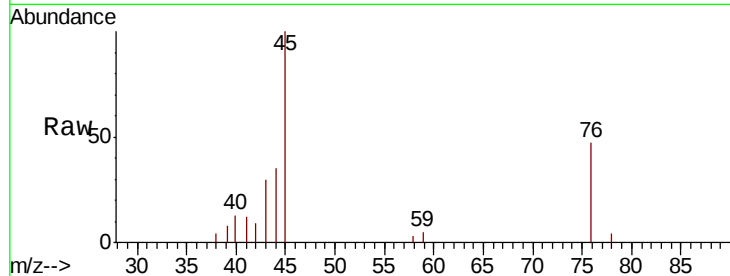
ClientSampled :

Tot Ion: 76 Resp: 6422

Ion Ratio Lower Upper

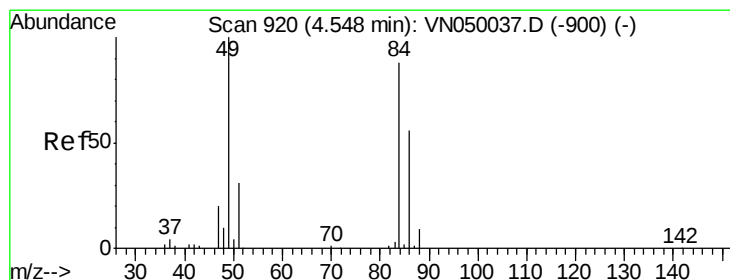
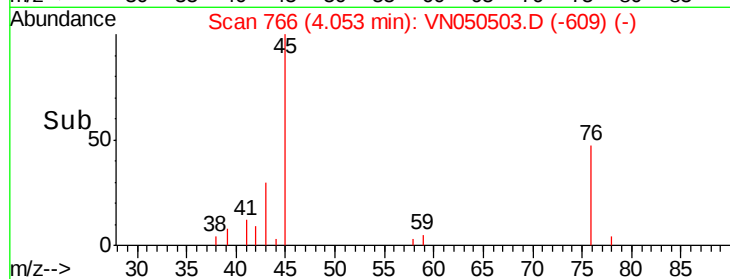
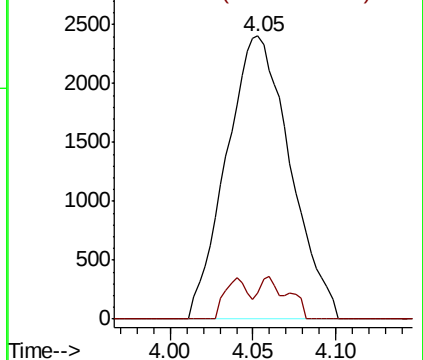
76 100

78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VNC

Ion 78.00 (77.70 to 78.70): VNC



#18

Methylene Chloride

Concen: 0.62 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Tgt Ion: 84 Resp: 4860

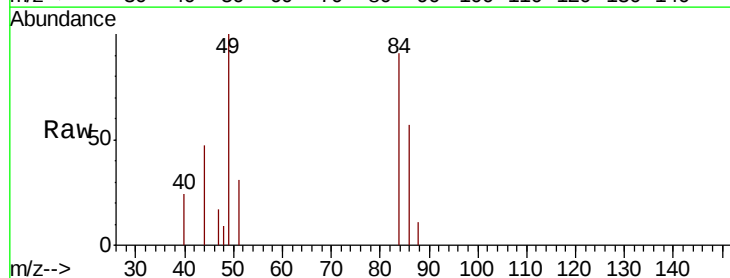
Ion Ratio Lower Upper

84 100

49 101.1 95.1 142.7

51 33.8 28.8 43.2

86 63.1 52.3 78.5

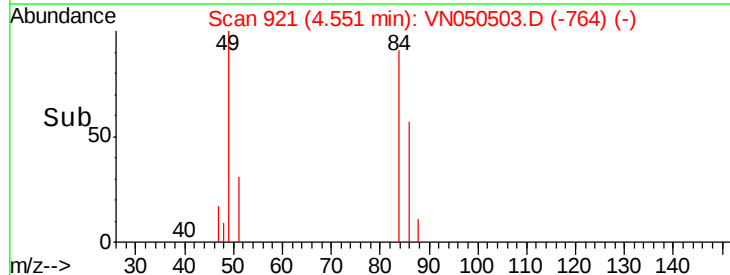
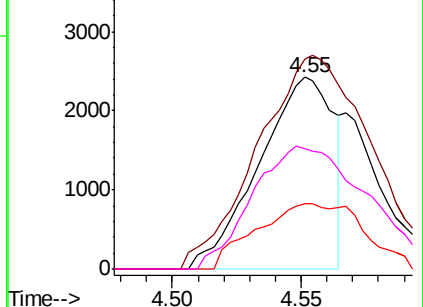


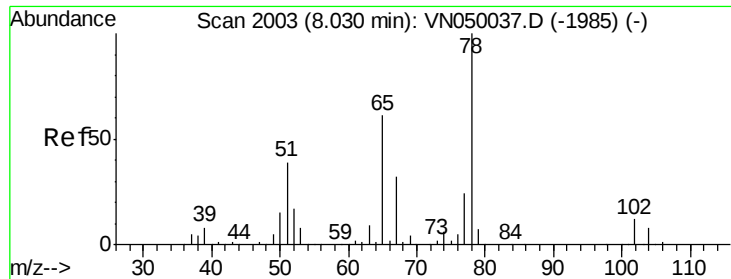
Abundance Ion 84.00 (83.70 to 84.70): VNC

Ion 49.00 (48.70 to 49.70): VNC

Ion 51.00 (50.70 to 51.70): VNC

Ion 86.00 (85.70 to 86.70): VNC





#27

1,2-Dichloroethane-d4

Concen: 29.91 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

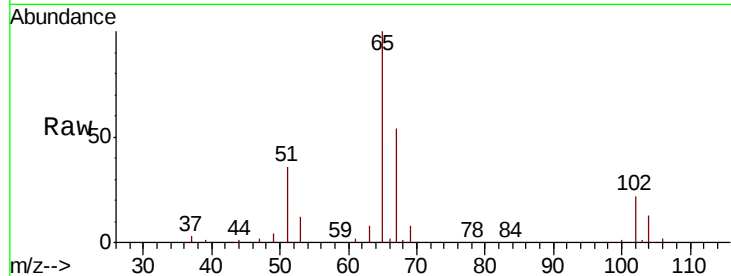
ClientSampleId :

Tot Ion: 65 Resp: 258788

Ion Ratio Lower Upper

65 100

67 54.3 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

120000

100000

80000

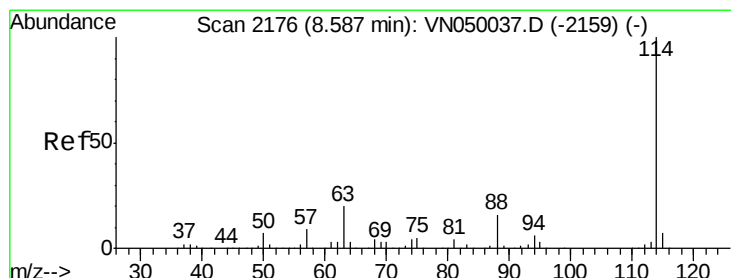
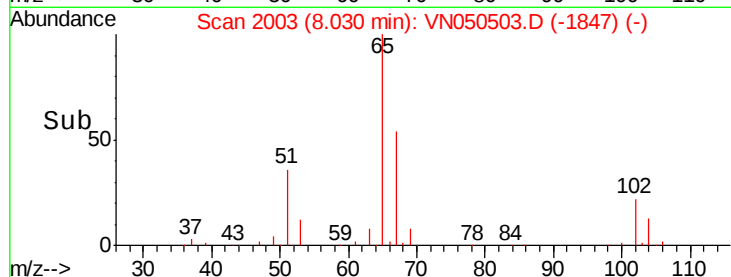
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

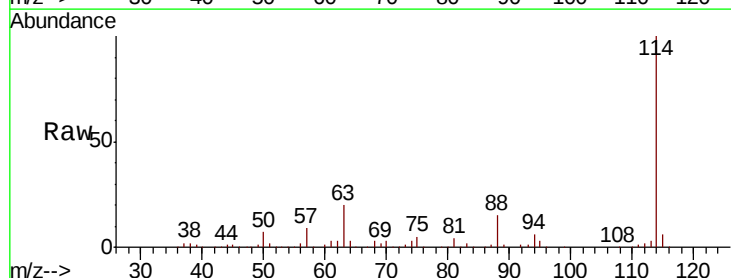
Tgt Ion: 114 Resp: 652745

Ion Ratio Lower Upper

114 100

63 19.8 16.2 24.2

88 15.0 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

400000

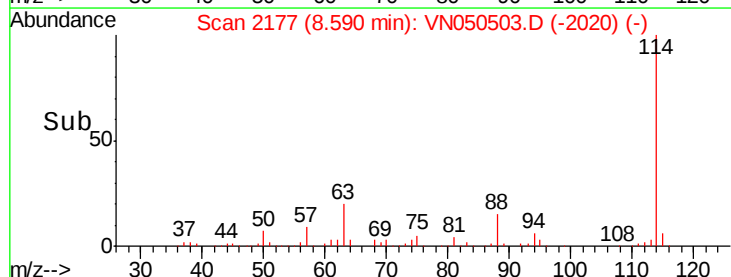
300000

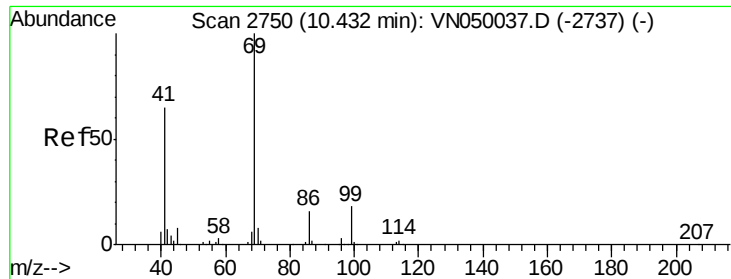
200000

100000

0

Time-->





#51

Ethyl methacrylate

Concen: 0.27 ug/l

RT: 10.10 min Scan# 2646

Delta R.T. -0.33 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

ClientSampleId :

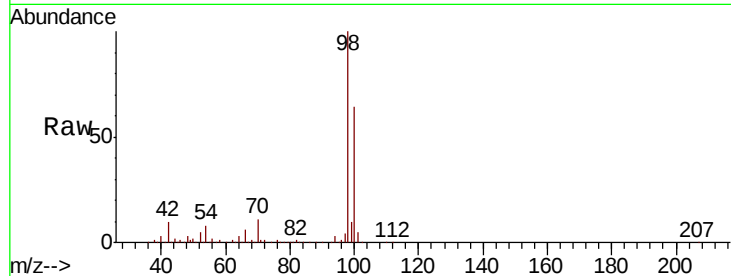
Tot Ion: 69 Resp: 2333

Ion Ratio Lower Upper

69 100

41 75.7 31.9 95.9

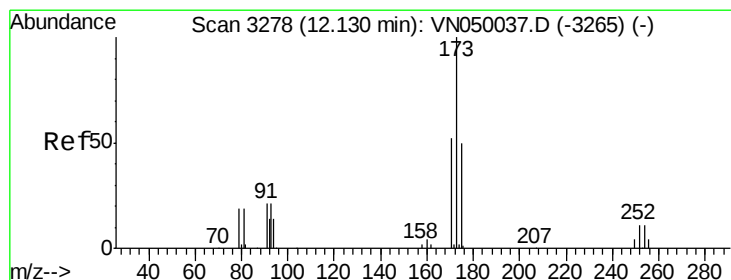
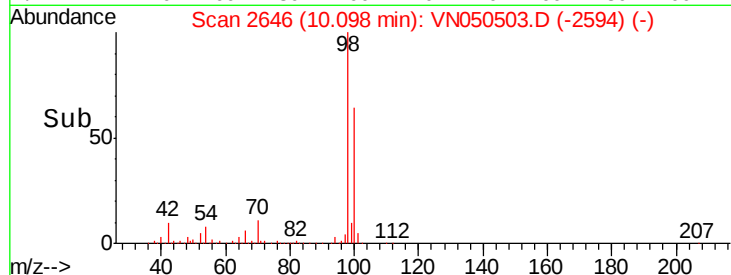
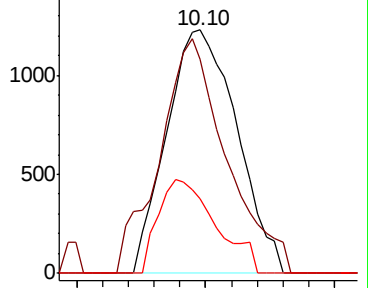
39 30.5 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VN050037.D (-2737) (-)

Ion 41.00 (40.70 to 41.70): VN050037.D (-2737) (-)

Ion 39.00 (38.70 to 39.70): VN050037.D (-2737) (-)



#56

Bromoform

Concen: 0.34 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

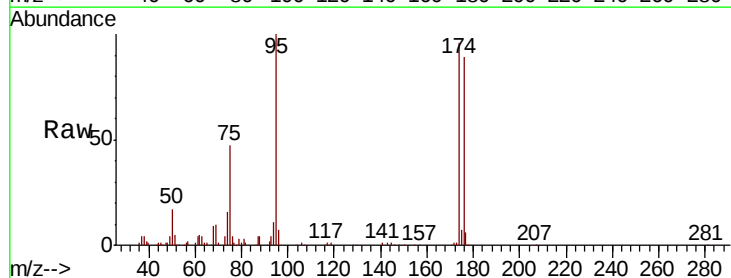
Tgt Ion: 173 Resp: 1958

Ion Ratio Lower Upper

173 100

175 651.8 38.6 57.8#

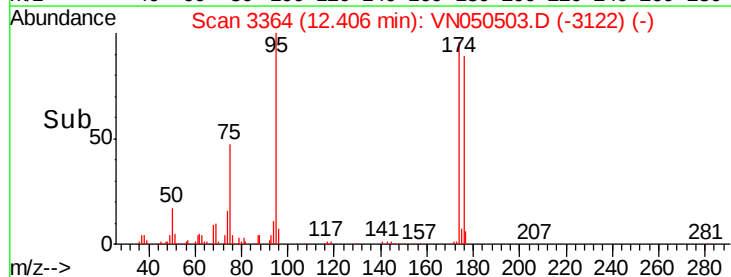
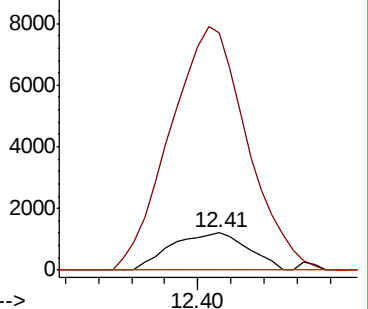
254 0.0 8.8 13.2#

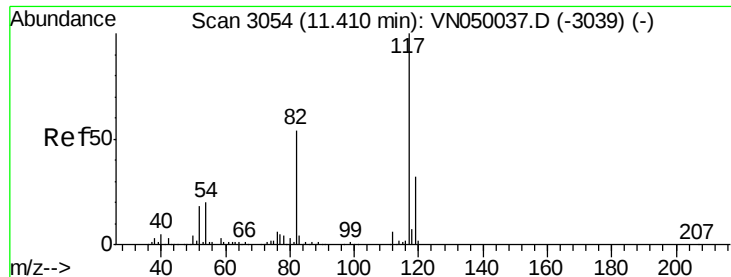


Abundance Ion 173.00 (172.70 to 173.70): VN050037.D (-3265) (-)

Ion 175.00 (174.70 to 175.70): VN050037.D (-3265) (-)

Ion 254.00 (253.70 to 254.70): VN050037.D (-3265) (-)

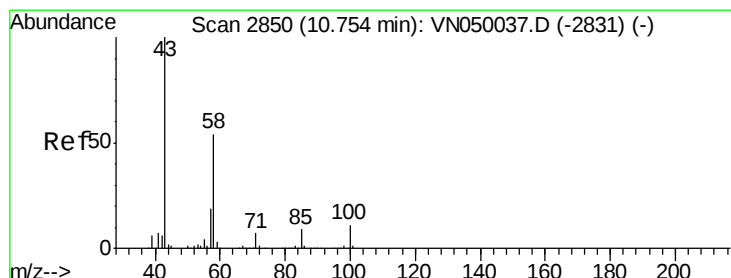
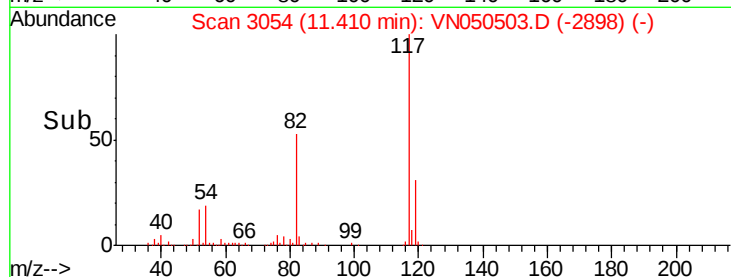
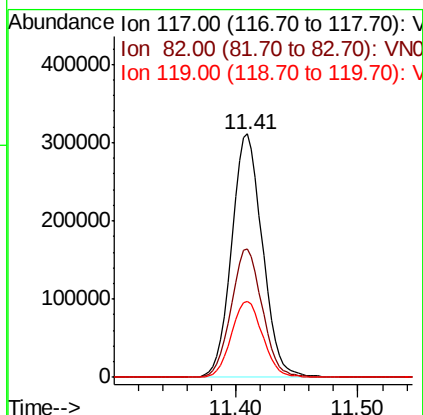
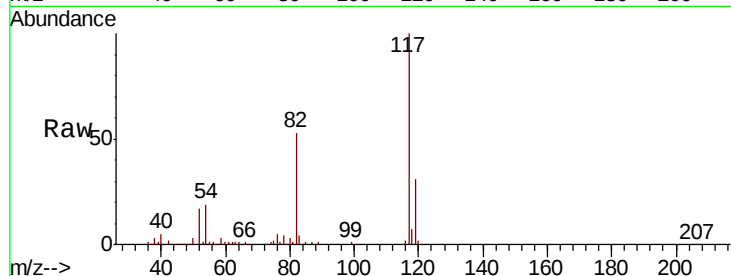




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050503.D
Acq: 9 Aug 2018 23:17

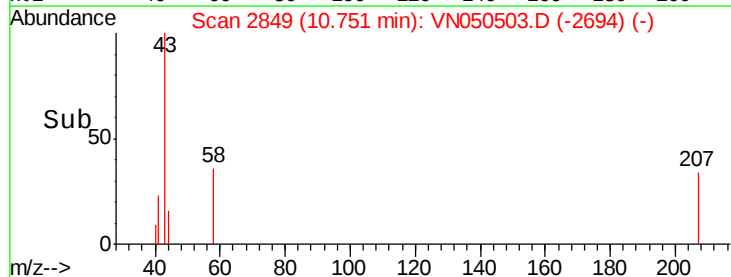
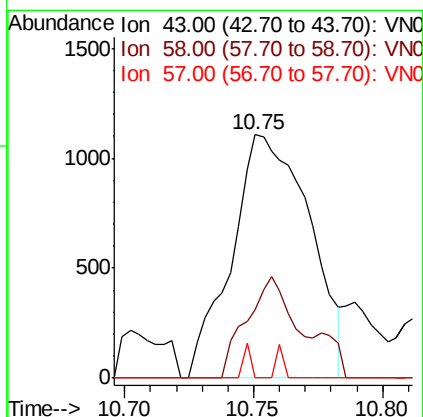
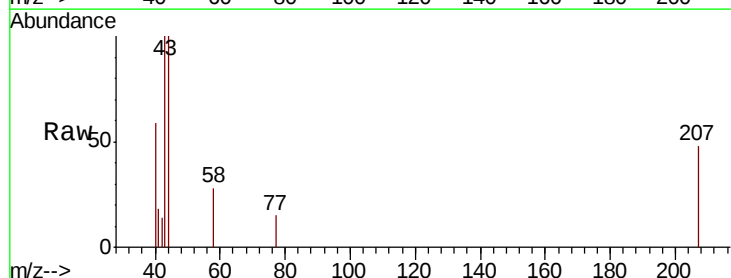
Instrument :
MSVOA_N
ClientSampled :

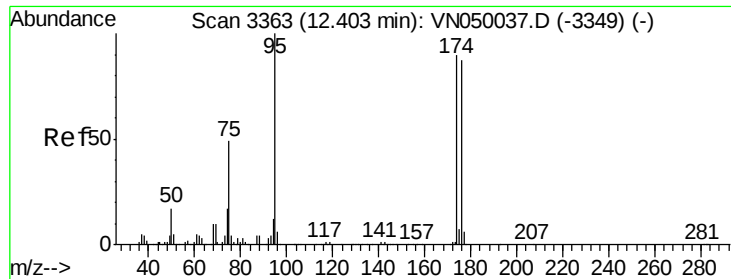
Tot Ion:117 Resp: 545992
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 31.9 25.4 38.0



#59
2-Hexanone
Concen: 0.54 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN050503.D
Acq: 9 Aug 2018 23:17

Tgt Ion: 43 Resp: 2340
Ion Ratio Lower Upper
43 100
58 25.8 43.8 65.8#
57 0.0 15.1 22.7#





#60

4-Bromofluorobenzene

Concen: 23.25 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

ClientSampleId :

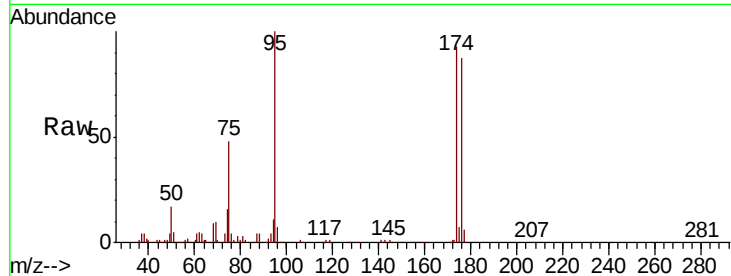
Tot Ion: 95 Resp: 195062

Ion Ratio Lower Upper

95 100

174 93.3 72.3 108.5

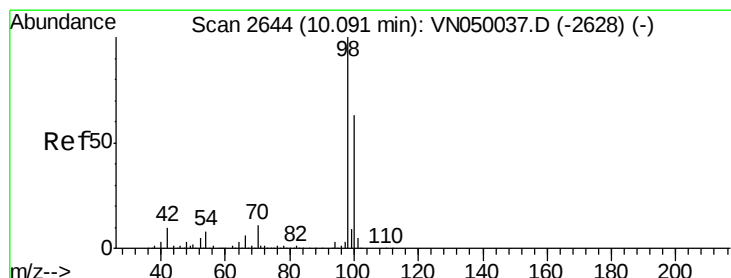
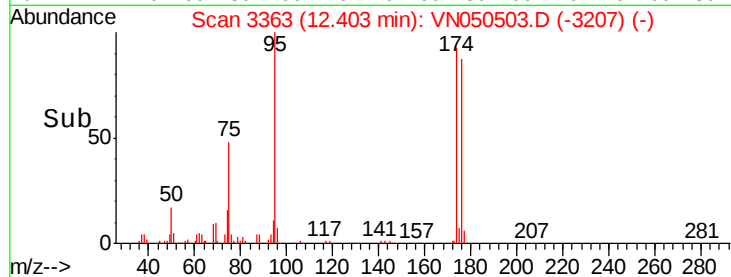
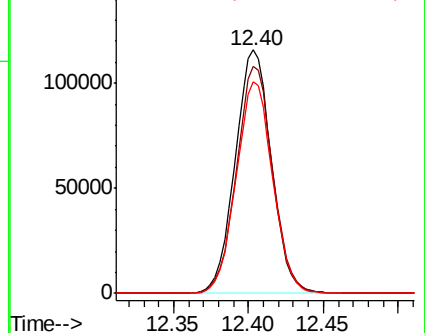
176 87.4 70.0 105.0



Abundance Ion 95.00 (94.70 to 95.70): VN050037.D (-3349) (-)

Ion 174.00 (173.70 to 174.70): VN050037.D (-3349) (-)

Ion 176.00 (175.70 to 176.70): VN050037.D (-3349) (-)



#63

Toluene-d8

Concen: 29.01 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050503.D

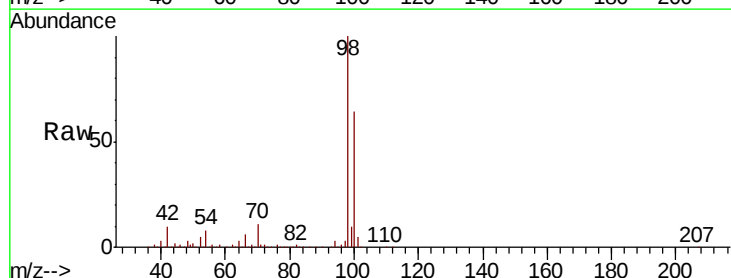
Acq: 9 Aug 2018 23:17

Tgt Ion: 98 Resp: 756554

Ion Ratio Lower Upper

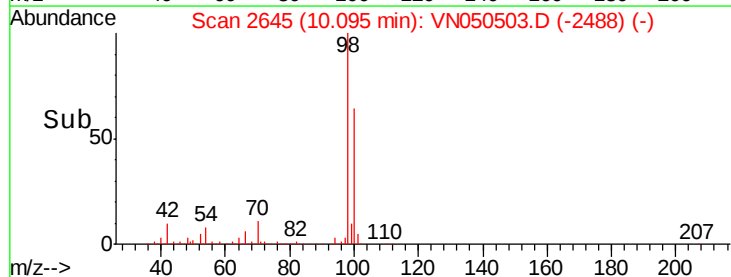
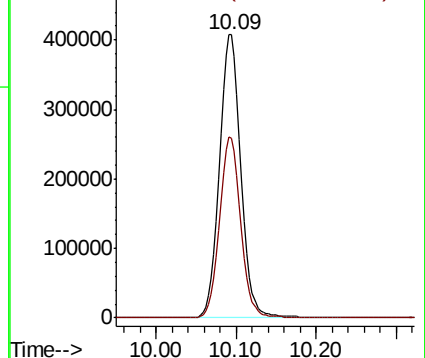
98 100

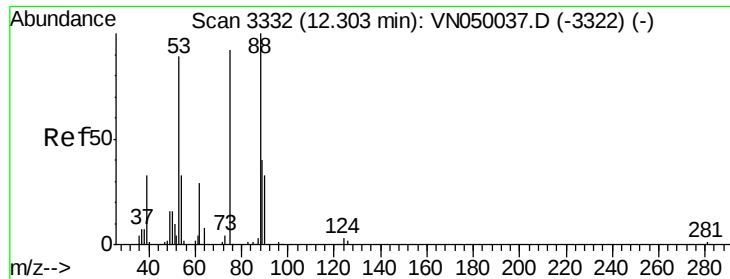
100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN050037.D (-2628) (-)

Ion 100.00 (99.70 to 100.70): VN050037.D (-2628) (-)

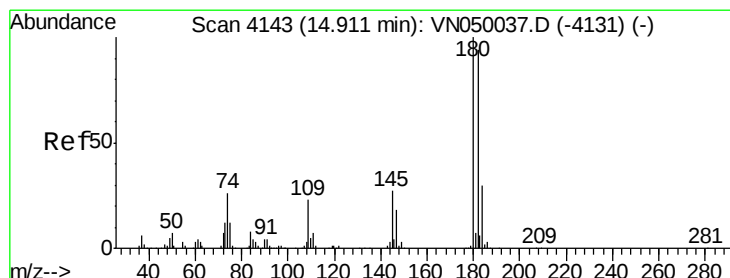
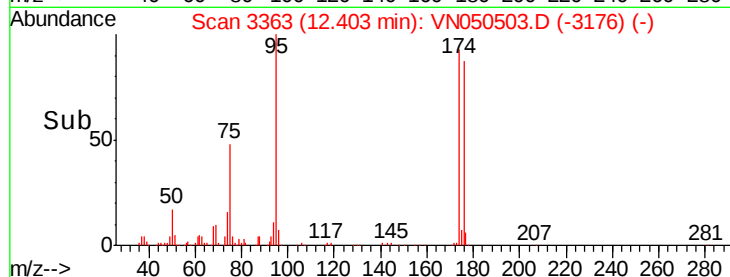
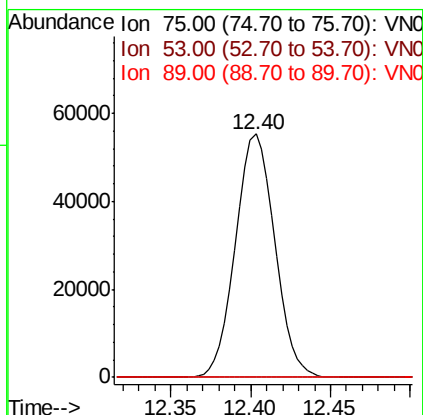
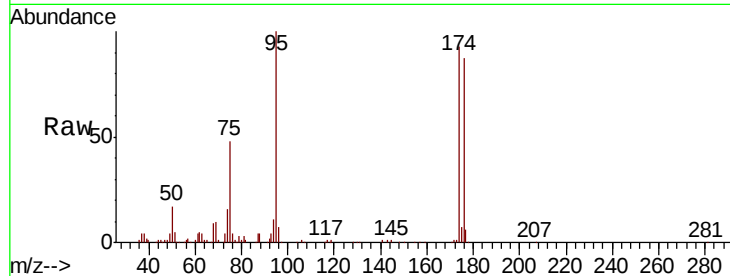




#77
t-1,4-Dichloro-2-butene
Concen: 38.91 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050503.D
Acq: 9 Aug 2018 23:17

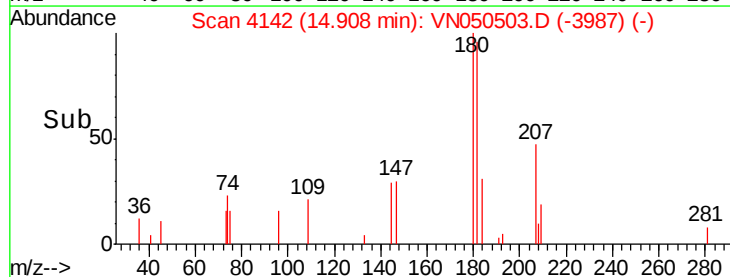
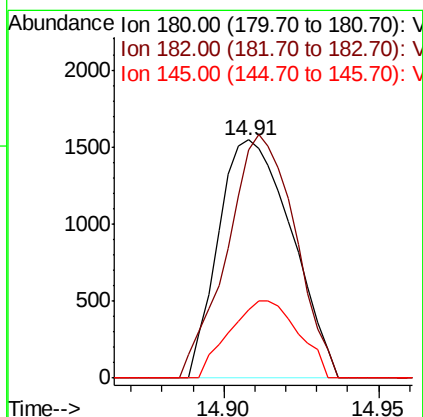
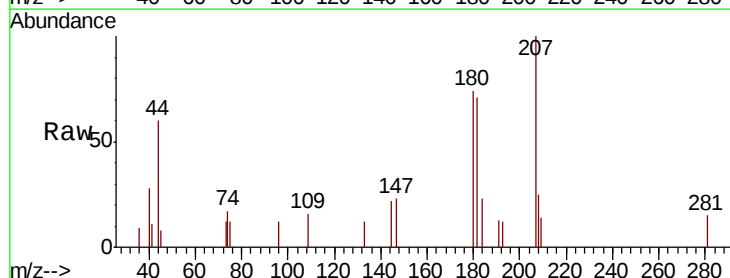
Instrument :
MSVOA_N
ClientSampleId :

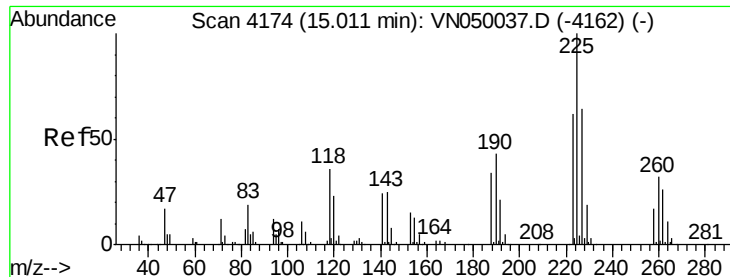
Tot Ion: 75 Resp: 92598
Ion Ratio Lower Upper
75 100
53 0.4 44.6 134.0#
89 0.0 20.7 62.1#



#89
1,2,4-Trichlorobenzene
Concen: 0.38 ug/l
RT: 14.91 min Scan# 4142
Delta R.T. -0.00 min
Lab File: VN050503.D
Acq: 9 Aug 2018 23:17

Tgt Ion:180 Resp: 2550
Ion Ratio Lower Upper
180 100
182 95.0 76.7 115.1
145 30.5 23.4 35.0





#90

Hexachlorobutadiene

Concen: 0.44 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

Instrument :

MSVOA_N

ClientSampleId :

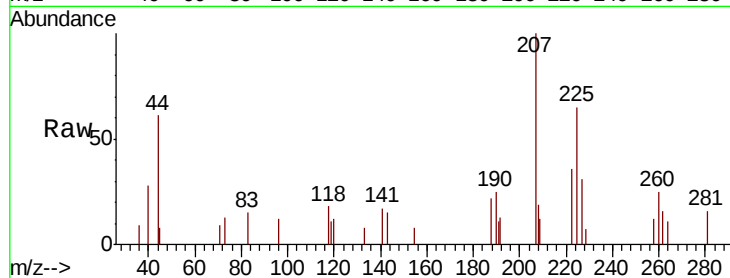
Tot Ion:225 Resp: 1941

Ion Ratio Lower Upper

225 100

223 35.0 0.0 124.4

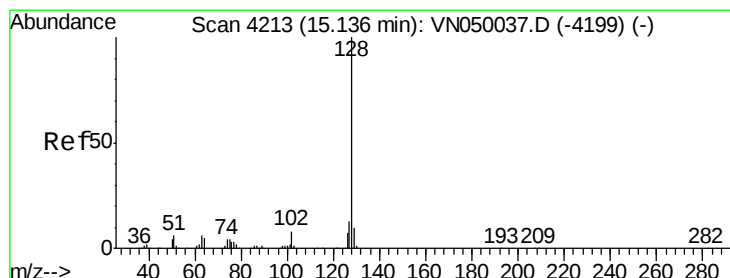
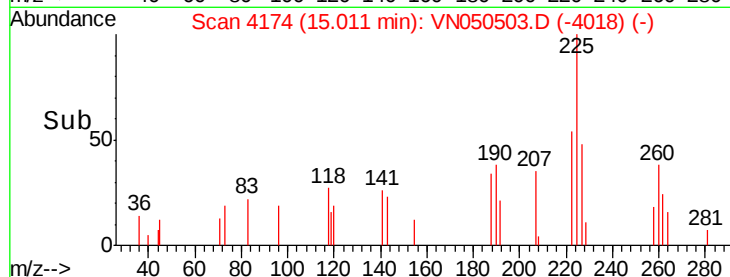
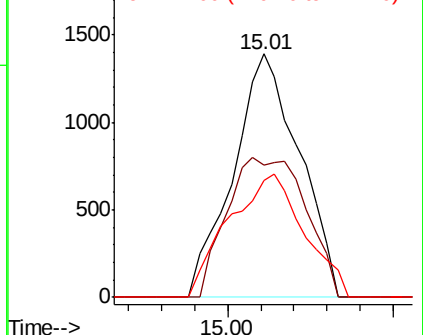
227 57.5 0.0 133.0



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 7.99 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050503.D

Acq: 9 Aug 2018 23:17

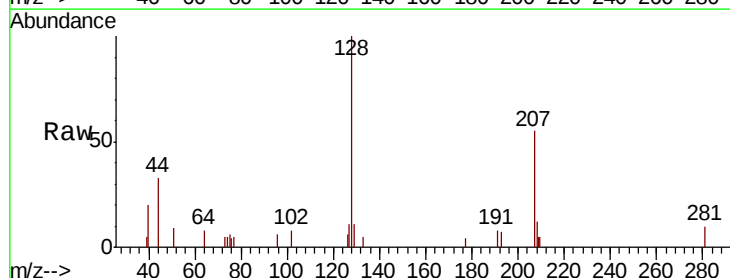
Tgt Ion:128 Resp: 7370

Ion Ratio Lower Upper

128 100

127 5.2 10.2 15.4#

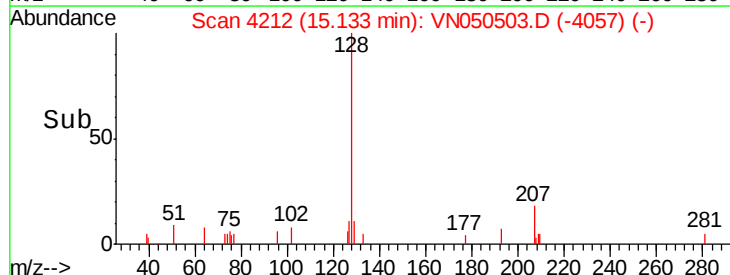
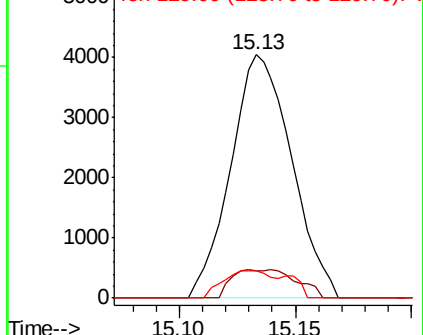
129 9.3 9.0 13.4

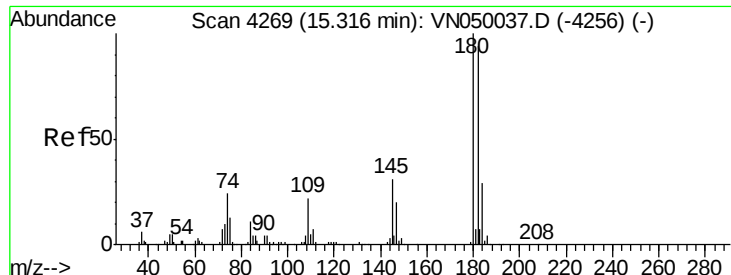


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

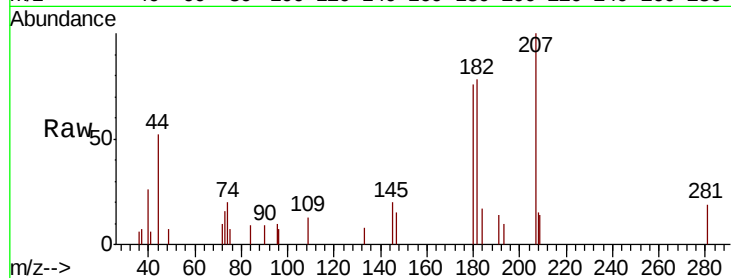




#92
 1,2,3-Trichlorobenzene
 Concen: 0.45 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. 0.00 min
 Lab File: VN050503.D
 Acq: 9 Aug 2018 23:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.4	0.0	188.8
145	23.4	0.0	60.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

