

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN012418\
 Data File : VN046542.D
 Acq On : 24 Jan 2018 13:02
 Operator : MD\SY
 Sample : VN0124WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0124WBL01

Quant Time: Jan 25 03:08:17 2018
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N012418W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 24 12:28:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	36673	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	228281	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	191393	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102955	30.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.27%
60) 4-Bromofluorobenzene	12.41	95	93755	27.36	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.20%
63) Toluene-d8	10.09	98	287933	31.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.87%

Target Compounds

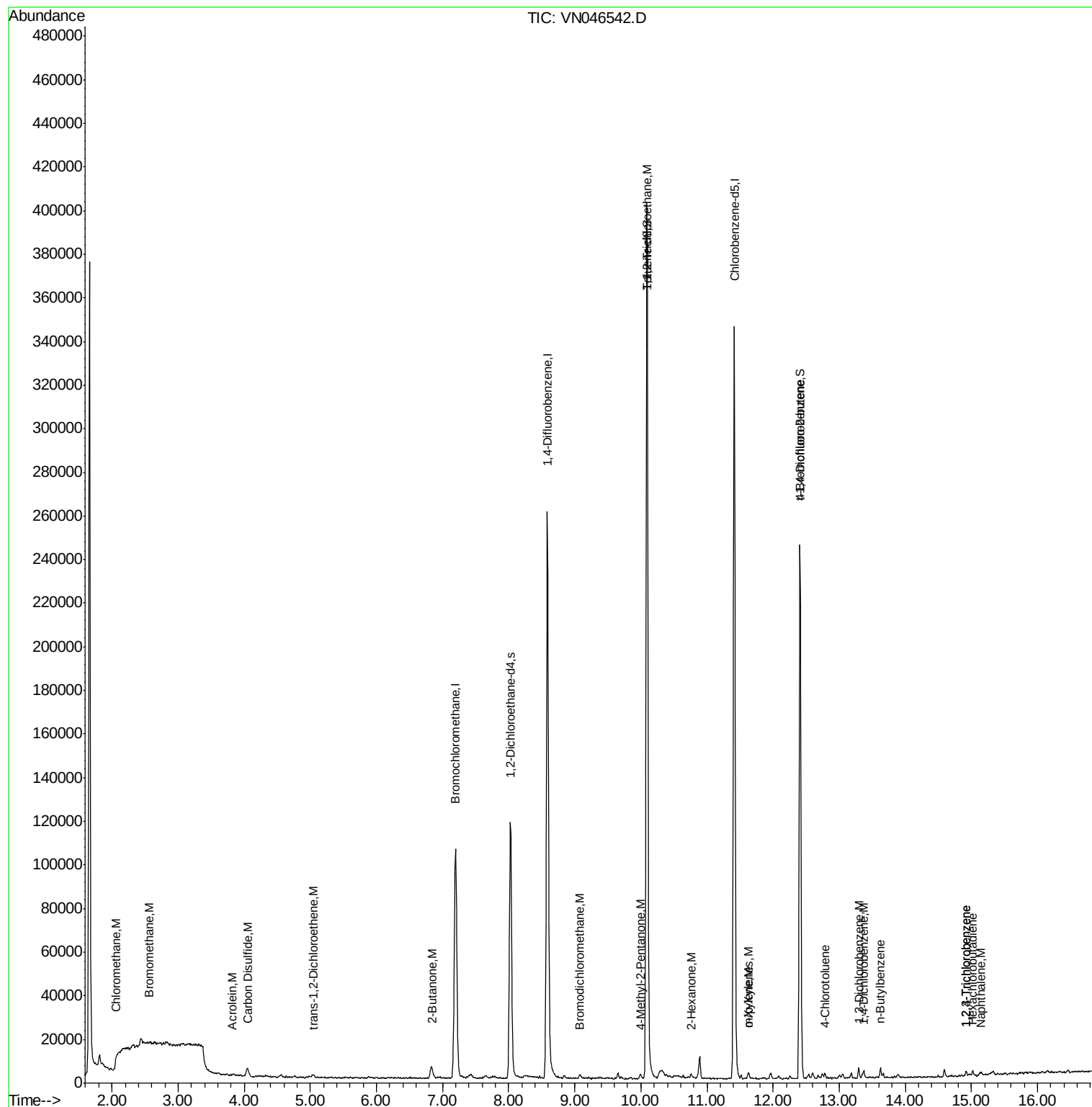
						Qvalue
3) Chloromethane	2.06	50	947	0.23	ug/l	99
5) Bromomethane	2.57	94	406	0.20	ug/l #	58
13) Acrolein	3.83	56	93	0.27	ug/l	85
16) Carbon Disulfide	4.05	76	7058	0.86	ug/l #	94
19) trans-1,2-Dichloroethene	5.03	96	648	0.25	ug/l #	68
30) 2-Butanone	6.85	43	906	0.59	ug/l #	58
41) Bromodichloromethane	9.08	83	805	0.20	ug/l #	23
50) 1,1,2-Trichloroethane	10.10	97	7773	3.09	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1327	0.45	ug/l #	89
59) 2-Hexanone	10.76	43	1592	0.76	ug/l #	84
67) m/p-Xylenes	11.62	106	1008	0.22	ug/l	78
68) o-Xylene	11.62	106	1008	0.23	ug/l	87
77) t-1,4-Dichloro-2-butene	12.41	75	48115	50.14	ug/l #	13
78) 4-Chlorotoluene	12.78	91	2215	0.25	ug/l	84
83) 1,3-Dichlorobenzene	13.29	146	1199	0.26	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	1411	0.31	ug/l	97
85) n-Butylbenzene	13.62	91	3218	0.31	ug/l	91
89) 1,2,4-Trichlorobenzene	14.92	180	791	0.30	ug/l #	88
90) Hexachlorobutadiene	15.02	225	628	0.45	ug/l	93
91) Naphthalene	15.15	128	1891	0.30	ug/l #	74
92) 1,2,3-Trichlorobenzene	14.92	180	791	0.31	ug/l	86

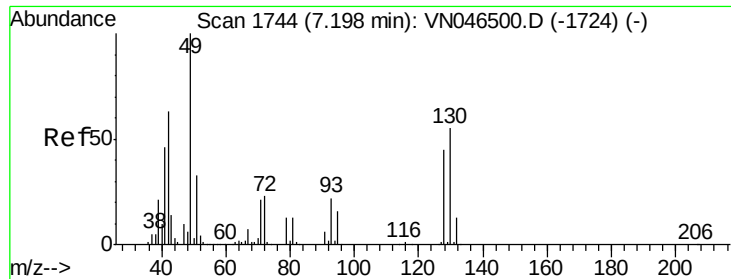
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :
VN0124WBL01

Quant Time: Jan 25 03:08:17 2018
Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N012418W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 24 12:28:49 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.19 min Scan# 1743

Delta R.T. -0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

VN0124WBL01

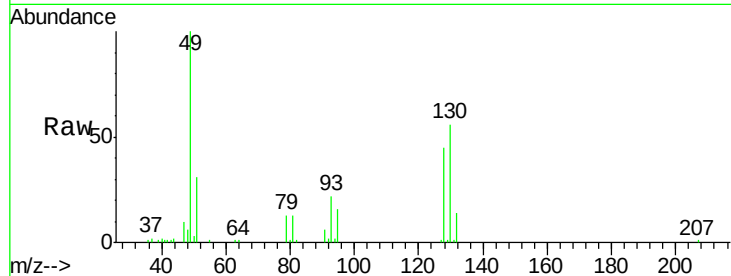
Tgt Ion:128 Resp: 36673

Ion Ratio Lower Upper

128 100

49 223.0 0.0 566.8

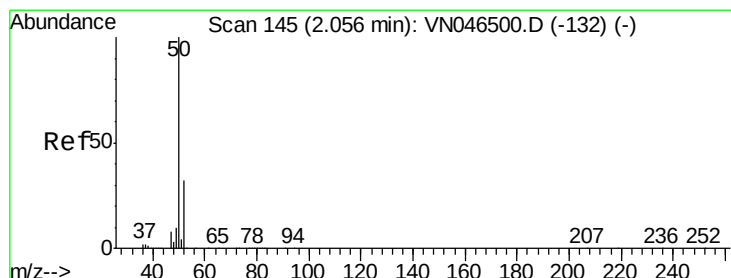
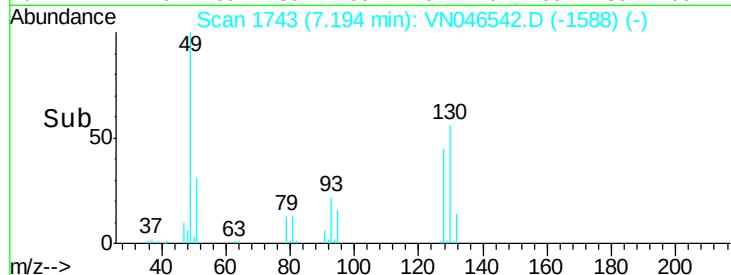
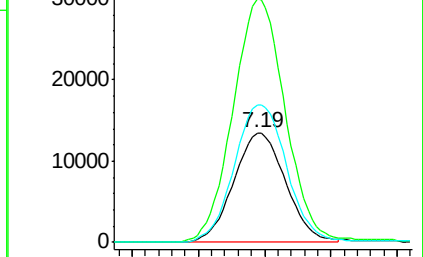
130 127.1 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN046542.D

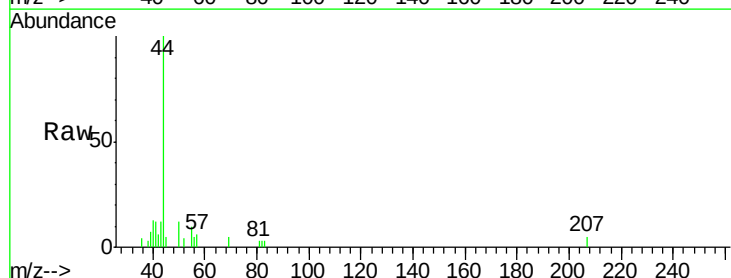
Acq: 24 Jan 2018 13:02

Tgt Ion: 50 Resp: 947

Ion Ratio Lower Upper

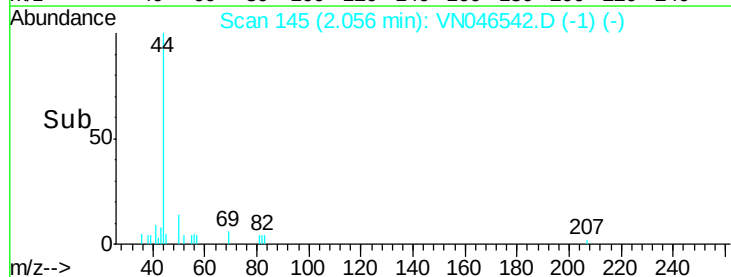
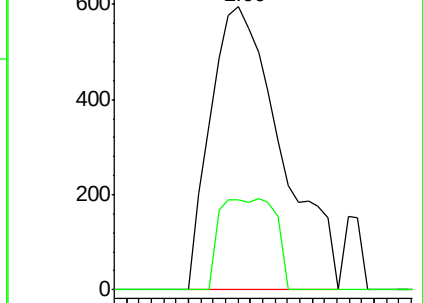
50 100

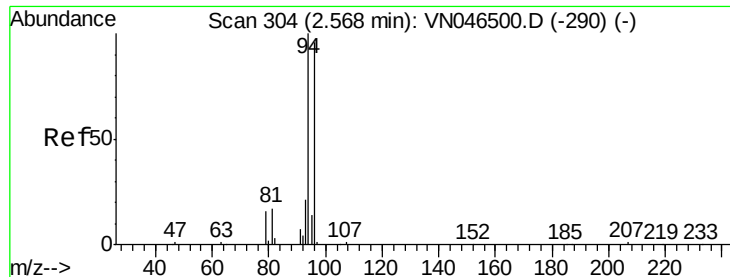
52 31.6 25.8 38.6



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.20 ug/l

RT: 2.57 min Scan# 304

Delta R.T. -0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

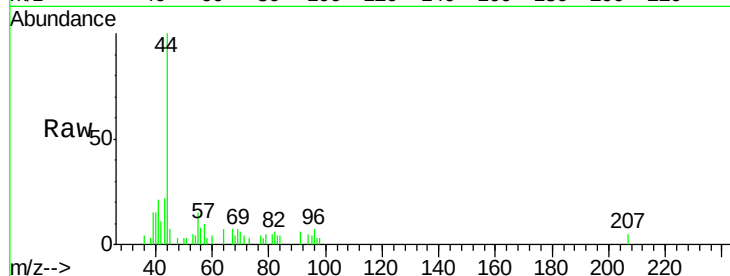
VN0124WBL01

Tgt Ion: 94 Resp: 406

Ion Ratio Lower Upper

94 100

96 52.4 74.6 111.8#



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

2.57

2.57

2.57

2.57

2.57

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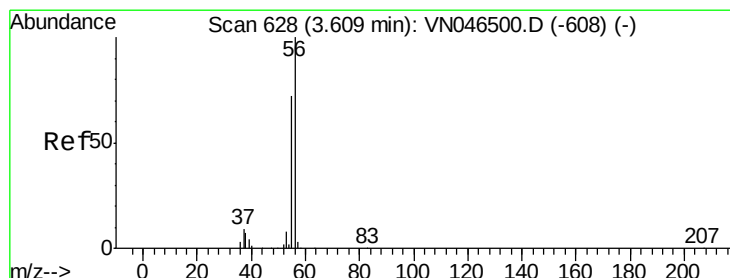
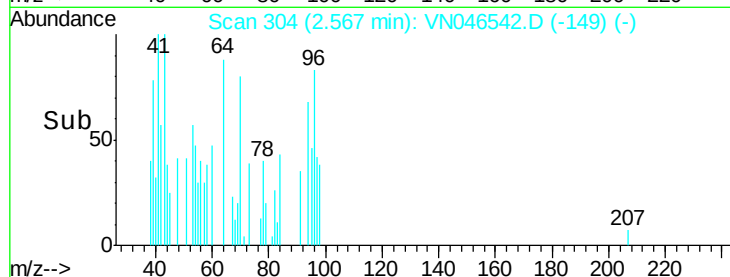
2.57

2.57

2.57

2.57

2.57



#13

Acrolein

Concen: 0.27 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.23 min

Lab File: VN046542.D

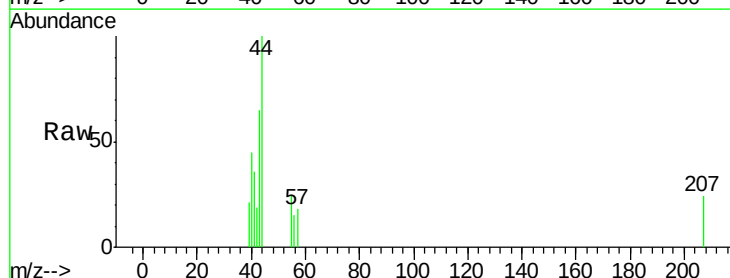
Acq: 24 Jan 2018 13:02

Tgt Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

55 61.3 58.9 88.3



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.83

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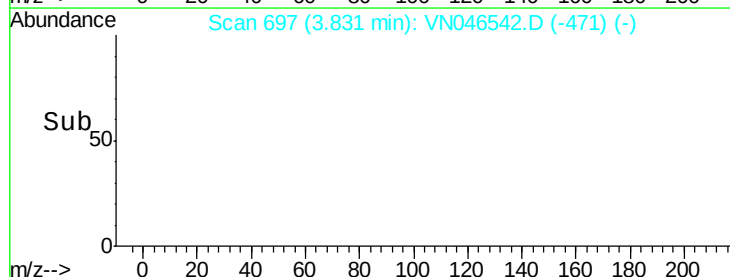
3.83

3.83

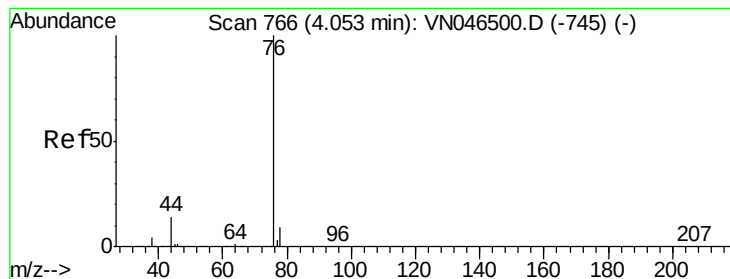
3.83

3.83

3.83



Time-->



#16

Carbon Disulfide

Concen: 0.86 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

Instrument :

MSVOA_N

ClientSampleId :

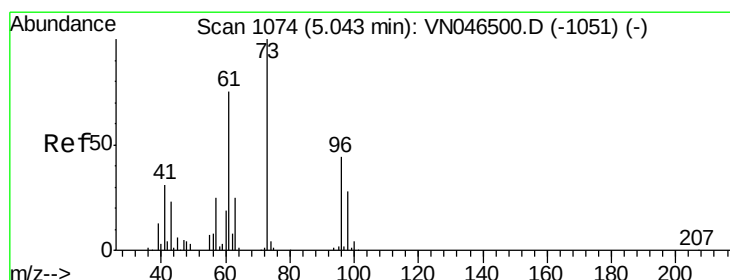
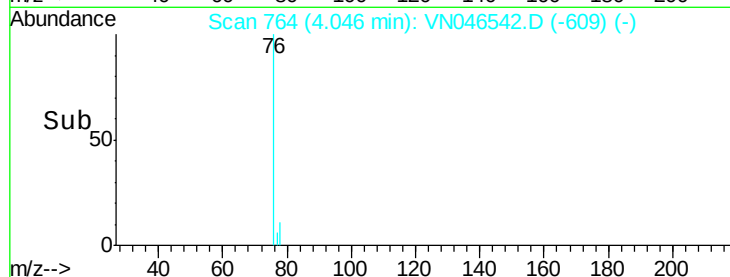
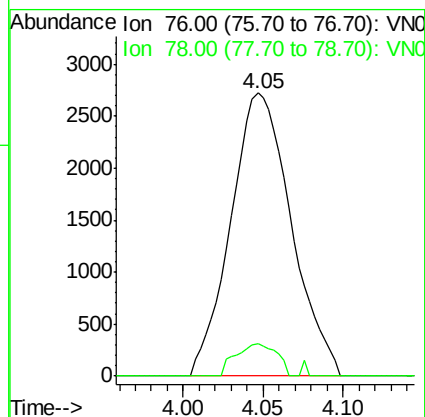
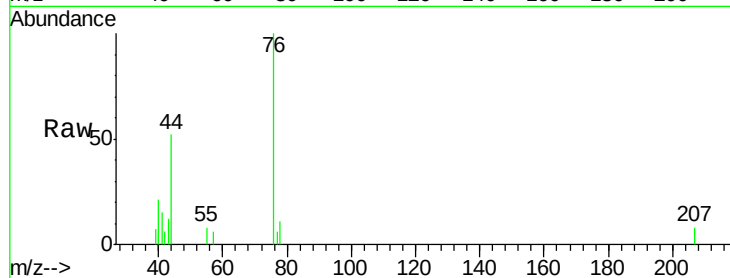
VN0124WBL01

Tgt Ion: 76 Resp: 7058

Ion Ratio Lower Upper

76 100

78 11.3 7.2 10.8#



#19

trans-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 5.03 min Scan# 1071

Delta R.T. -0.01 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

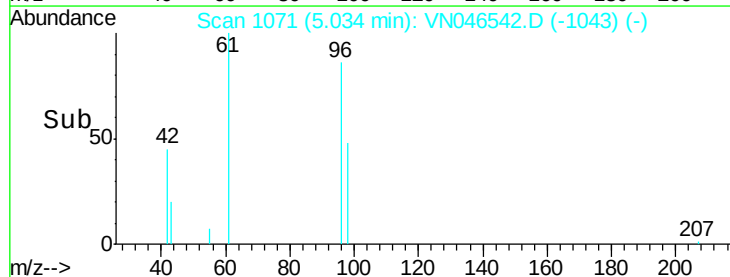
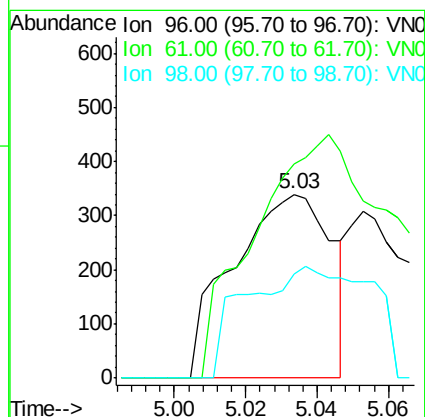
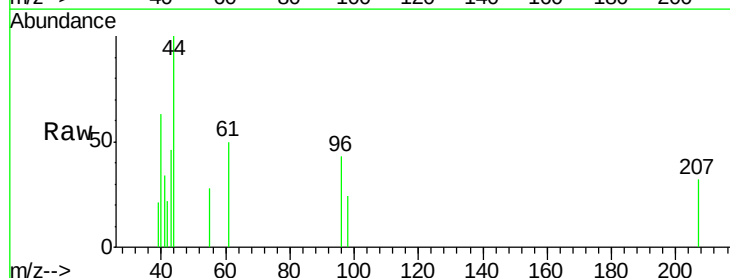
Tgt Ion: 96 Resp: 648

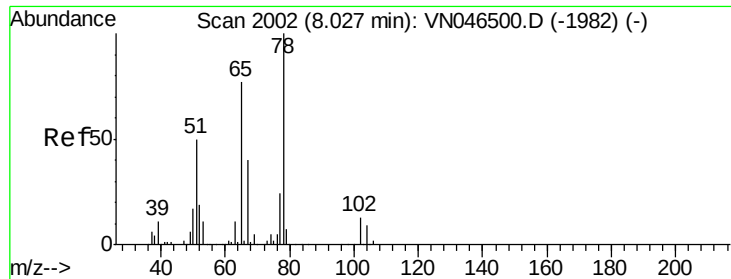
Ion Ratio Lower Upper

96 100

61 116.5 137.3 205.9#

98 56.3 52.3 78.5

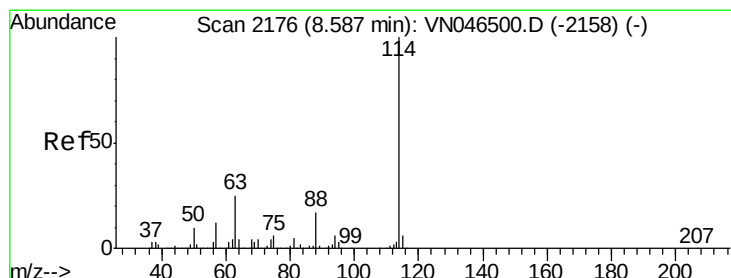
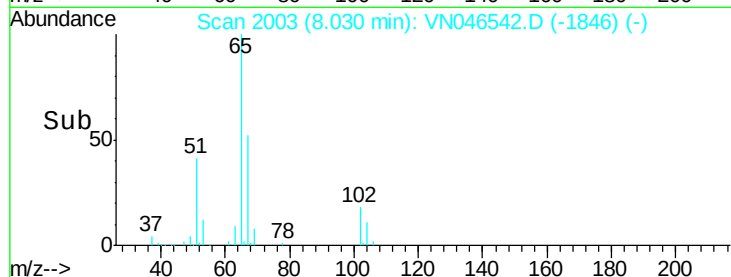
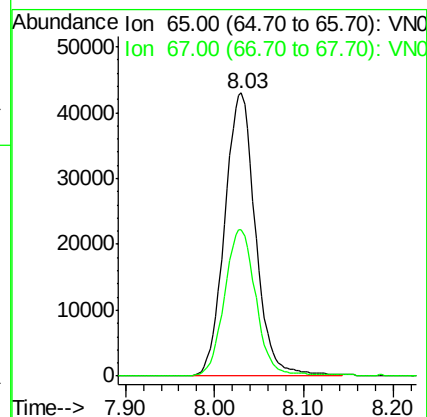
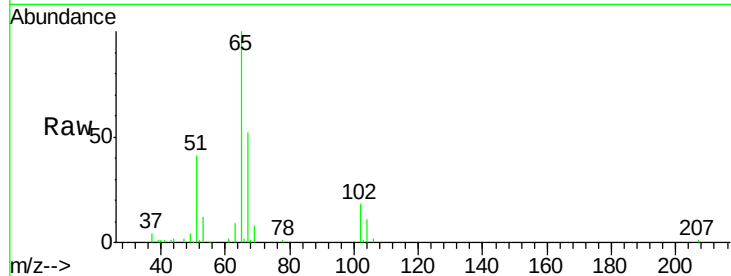




#27
 1,2-Dichloroethane-d4
 Concen: 30.98 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

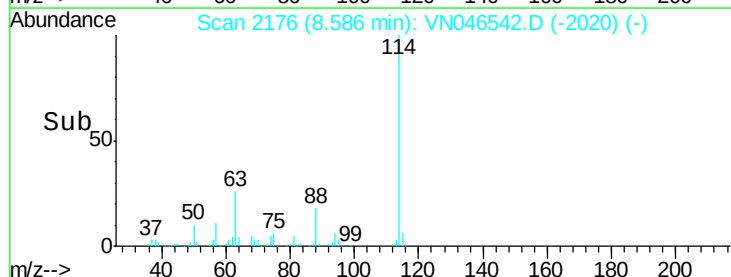
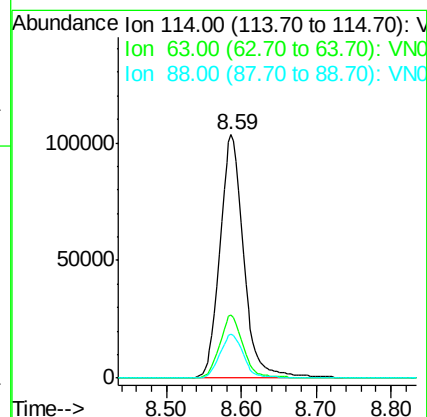
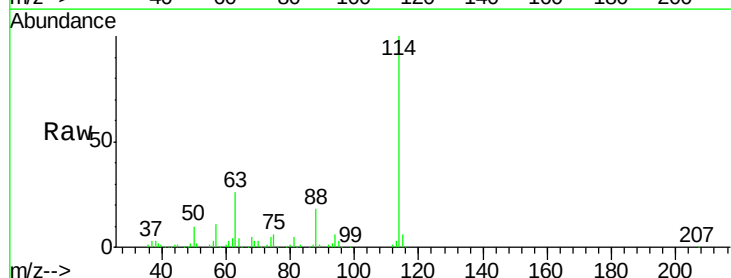
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0124WBL01

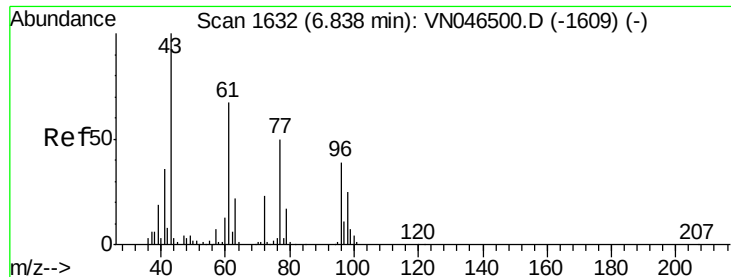
Tgt Ion: 65 Resp: 102955
 Ion Ratio Lower Upper
 65 100
 67 52.2 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion: 114 Resp: 228281
 Ion Ratio Lower Upper
 114 100
 63 25.4 20.2 30.4
 88 18.0 14.2 21.2

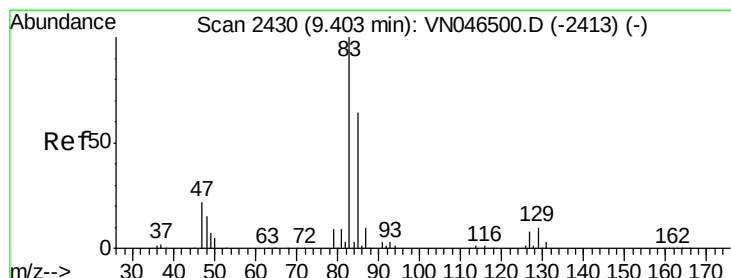
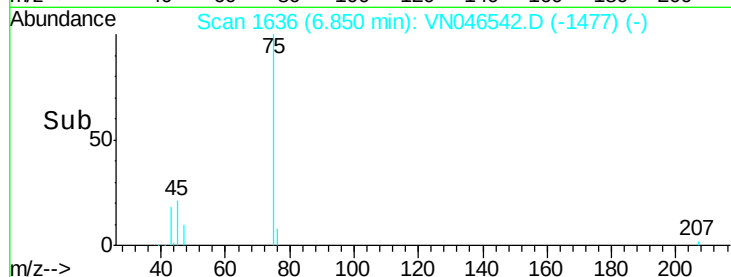
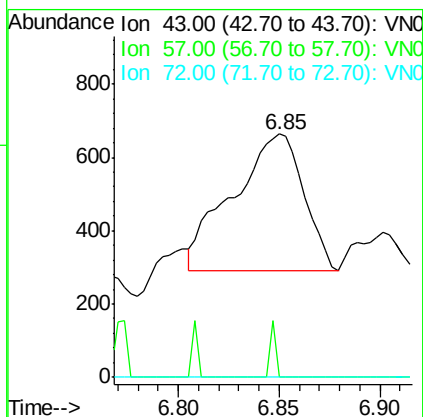
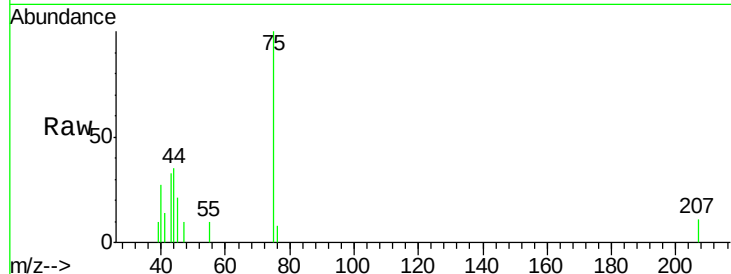




#30
 2-Butanone
 Concen: 0.59 ug/l
 RT: 6.85 min Scan# 1636
 Delta R.T. 0.01 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

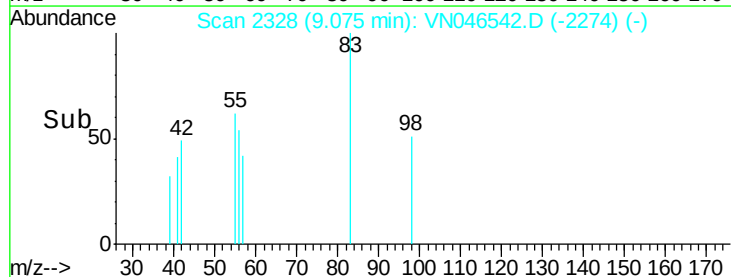
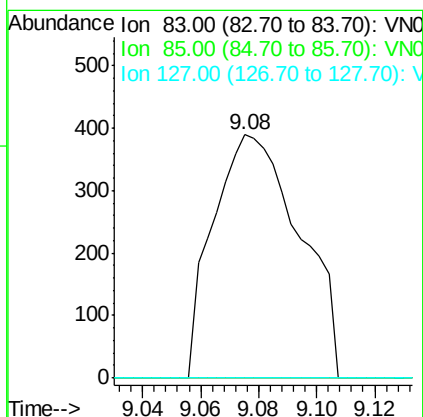
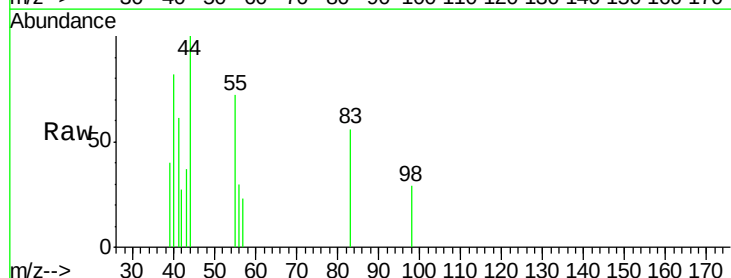
Instrument :
 MSVOA_N
 ClientSampled :
 VN0124WBL01

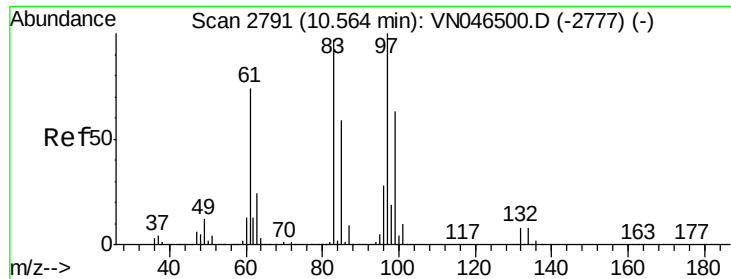
Tgt Ion: 43 Resp: 906
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.8 10.2#
 72 0.0 18.9 28.3#



#41
 Bromodichloromethane
 Concen: 0.20 ug/l
 RT: 9.08 min Scan# 2328
 Delta R.T. -0.33 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion: 83 Resp: 805
 Ion Ratio Lower Upper
 83 100
 85 0.0 53.6 80.4#
 127 0.0 6.0 9.0#

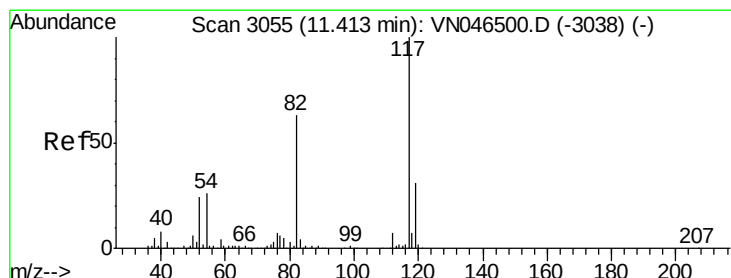
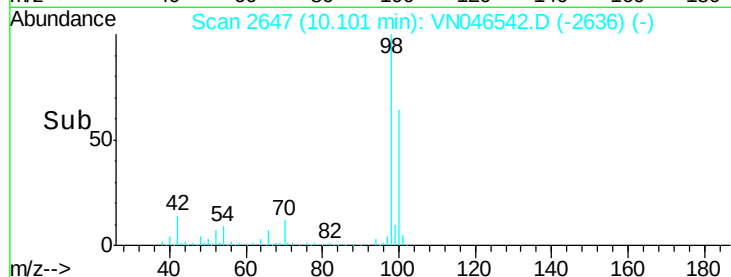
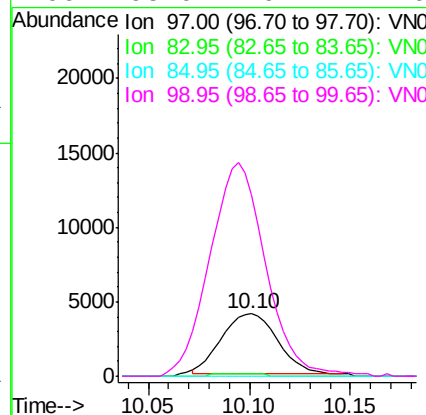
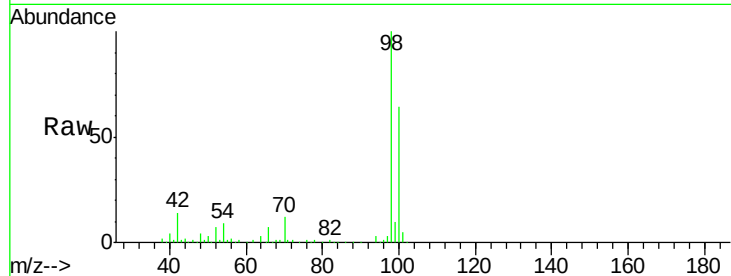




#50
 1,1,2-Trichloroethane
 Concen: 3.09 ug/l
 RT: 10.10 min Scan# 2647
 Delta R.T. -0.47 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

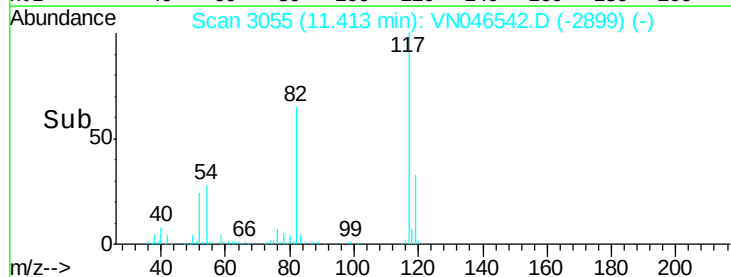
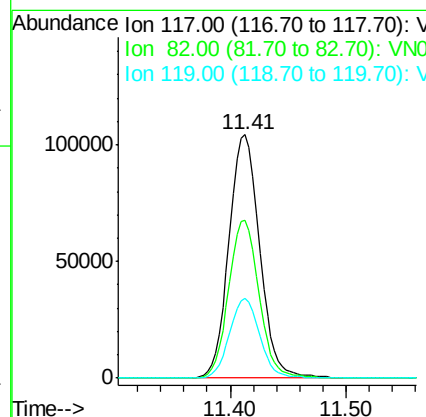
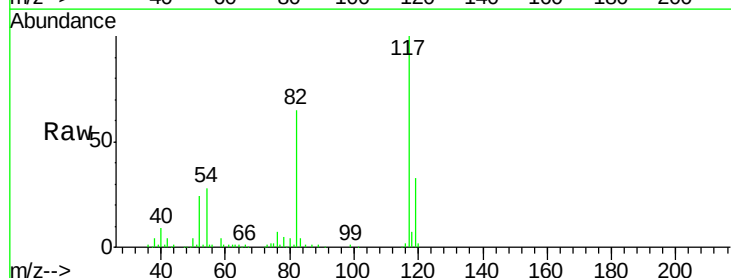
Instrument :
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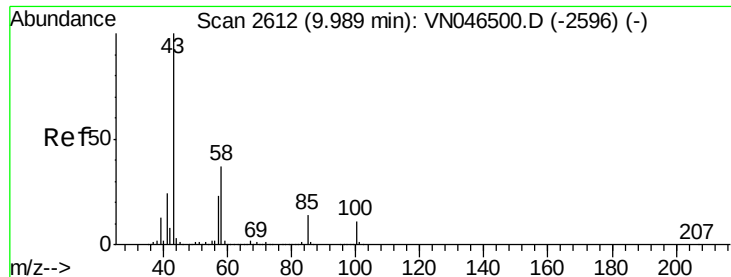
Tgt Ion: 97 Resp: 7773
 Ion Ratio Lower Upper
 97 100
 83 4.5 74.8 112.2#
 85 0.0 47.5 71.3#
 99 298.0 49.4 74.0#



#57
 Chlorobenzene-d5
 Concen: 30.00 ug/l
 RT: 11.41 min Scan# 3055
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion: 117 Resp: 191393
 Ion Ratio Lower Upper
 117 100
 82 64.2 51.5 77.3
 119 32.1 25.4 38.2

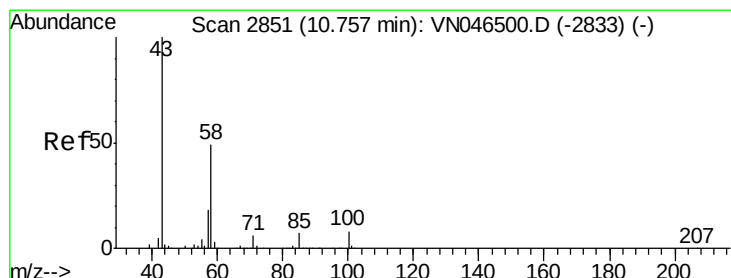
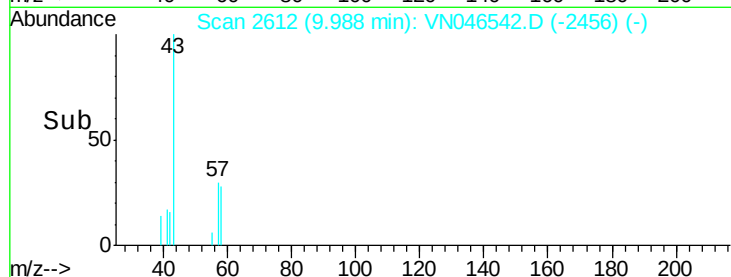
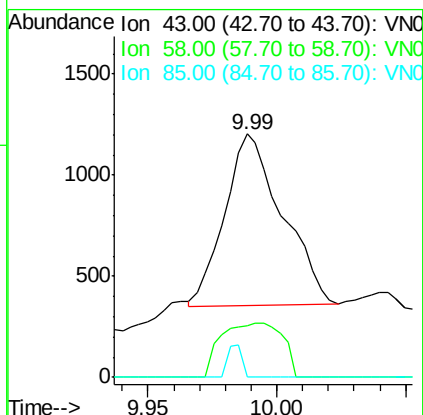
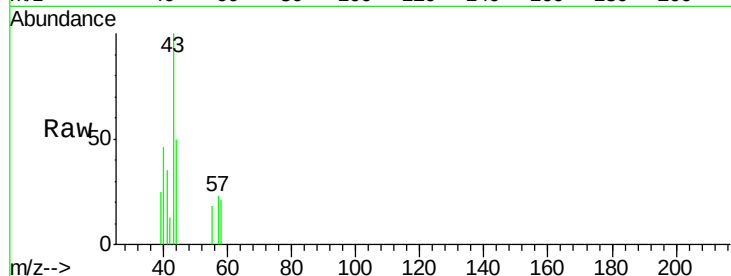




#58
 4-Methyl-2-Pentanone
 Concen: 0.45 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

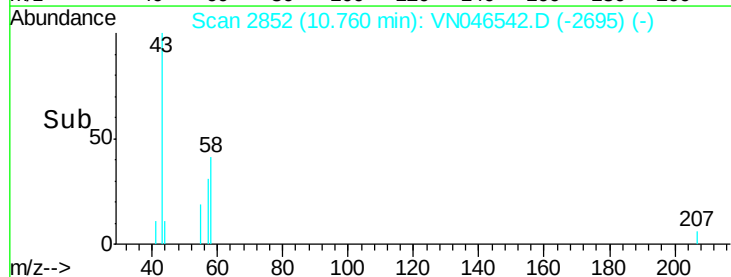
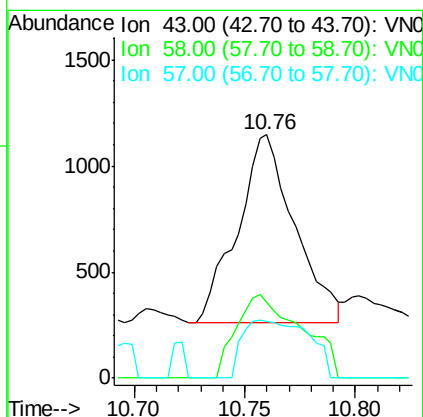
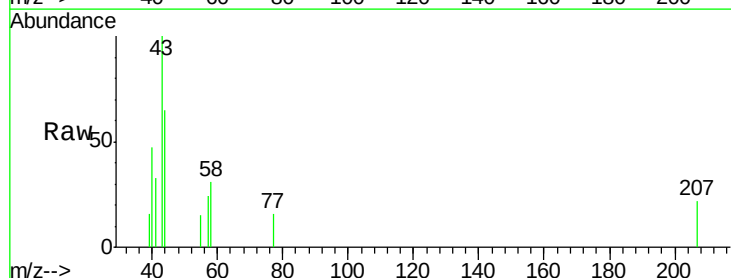
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 ClientSampleId :
 VN0124WBL01

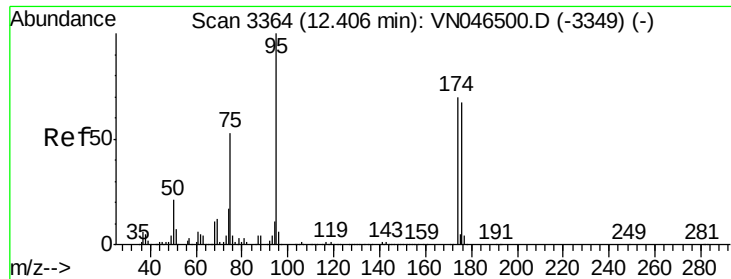
Tgt Ion: 43 Resp: 1327
 Ion Ratio Lower Upper
 43 100
 58 33.5 29.4 44.2
 85 4.6 11.5 17.3#



#59
 2-Hexanone
 Concen: 0.76 ug/l
 RT: 10.76 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion: 43 Resp: 1592
 Ion Ratio Lower Upper
 43 100
 58 46.4 41.4 62.0
 57 35.9 14.9 22.3#

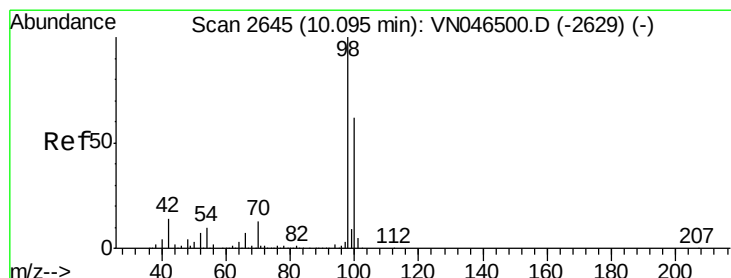
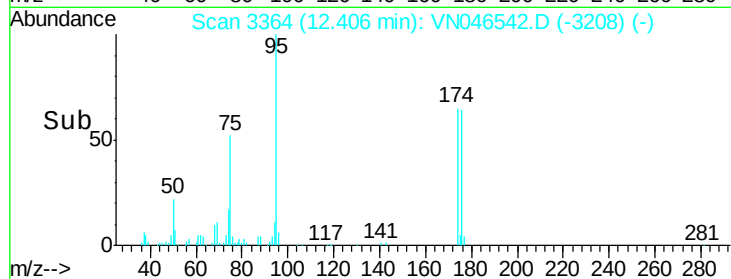
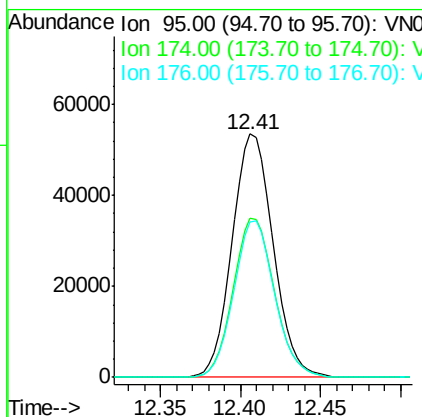
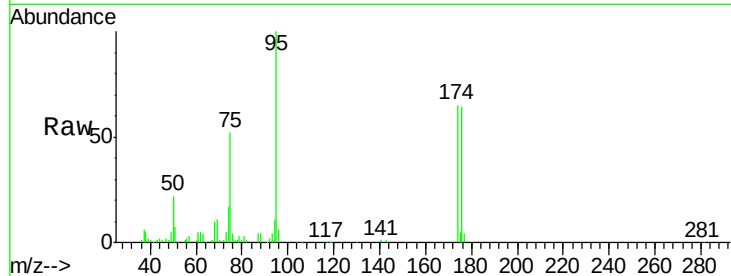




#60
 4-Bromofluorobenzene
 Concen: 27.36 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

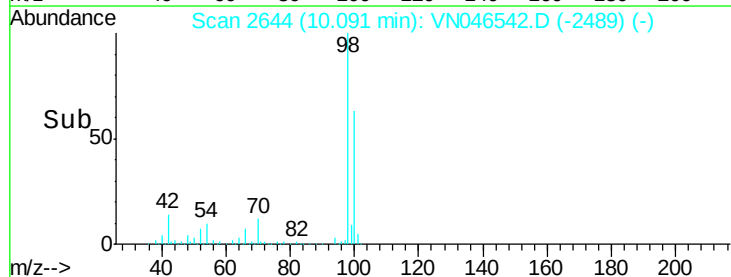
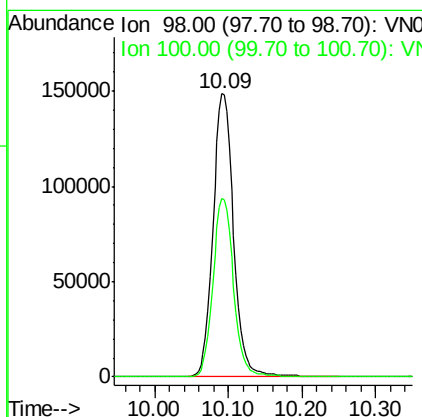
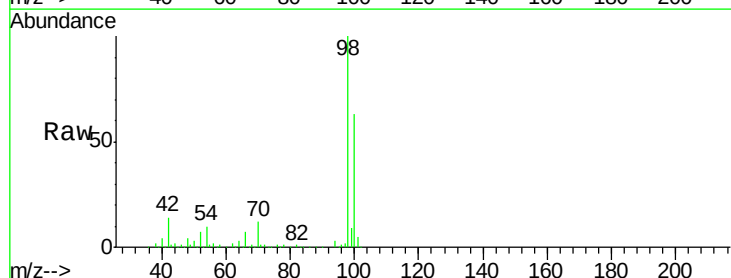
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0124WBL01

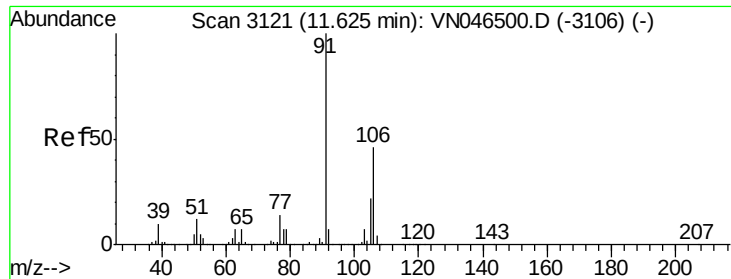
Tgt Ion: 95 Resp: 93755
 Ion Ratio Lower Upper
 95 100
 174 65.4 52.5 78.7
 176 63.7 50.6 75.8



#63
 Toluene-d8
 Concen: 31.16 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion: 98 Resp: 287933
 Ion Ratio Lower Upper
 98 100
 100 62.8 50.8 76.2

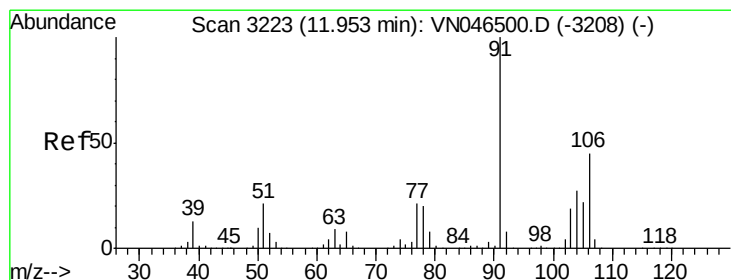
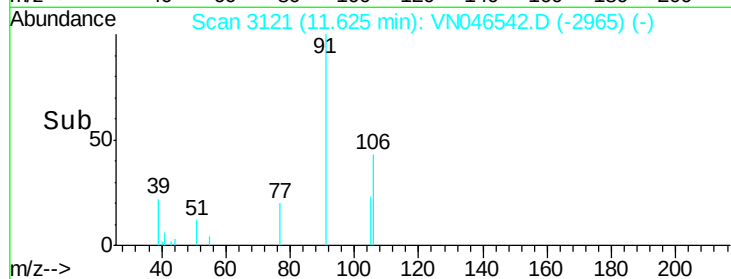
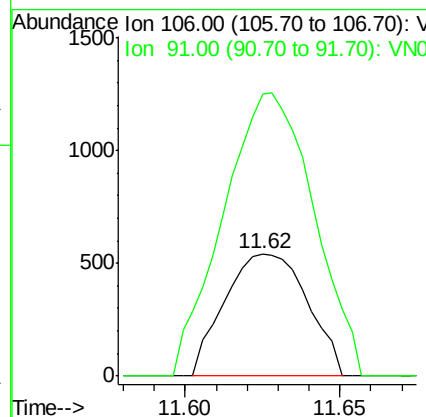
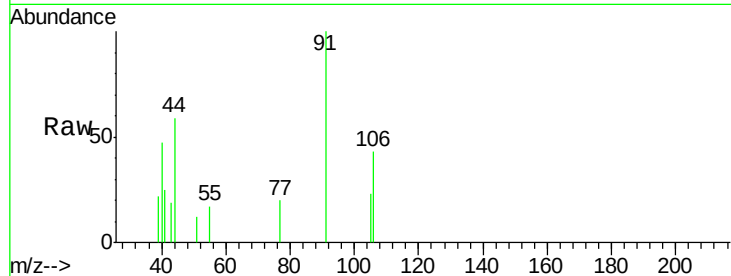




#67
m/p-Xylenes
Concen: 0.22 ug/l
RT: 11.62 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN046542.D
Acq: 24 Jan 2018 13:02

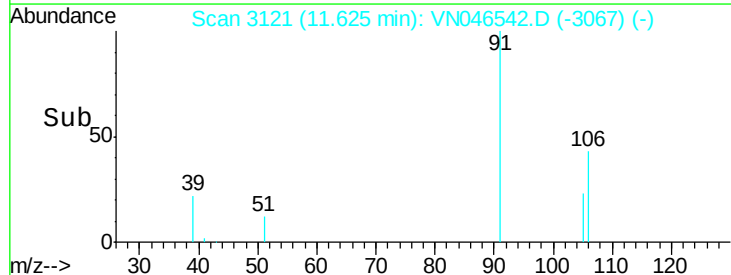
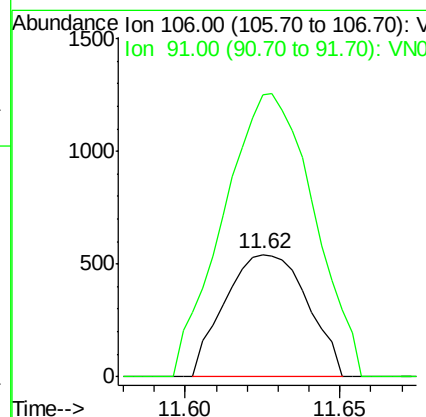
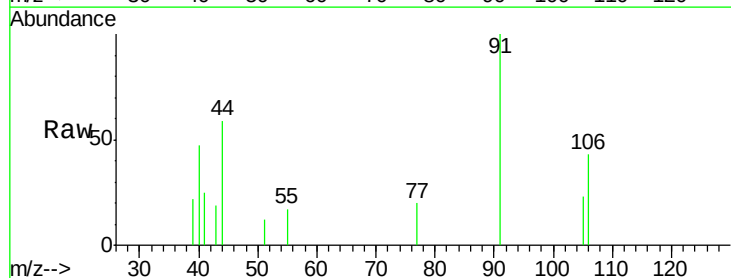
Instrument :
MSVOA_N
ClientSampled :
VN0124WBL01

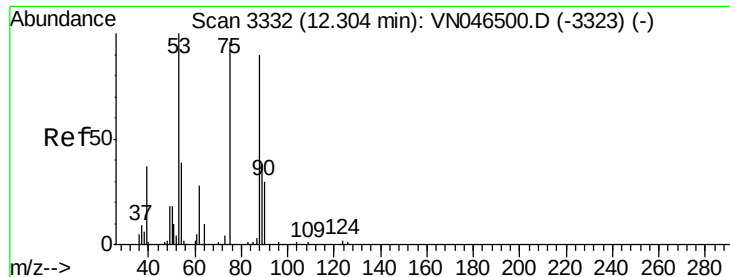
Tgt Ion:106 Resp: 1008
Ion Ratio Lower Upper
106 100
91 252.9 173.8 260.8



#68
o-Xylene
Concen: 0.23 ug/l
RT: 11.62 min Scan# 3121
Delta R.T. -0.33 min
Lab File: VN046542.D
Acq: 24 Jan 2018 13:02

Tgt Ion:106 Resp: 1008
Ion Ratio Lower Upper
106 100
91 252.9 115.7 346.9

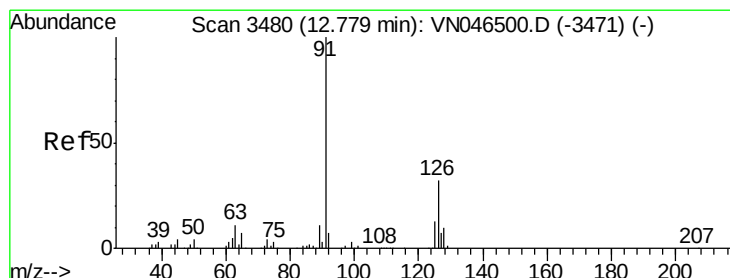
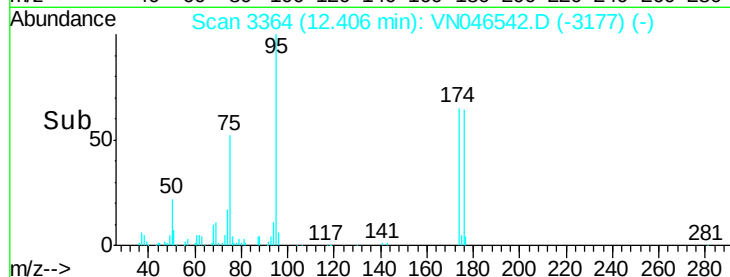
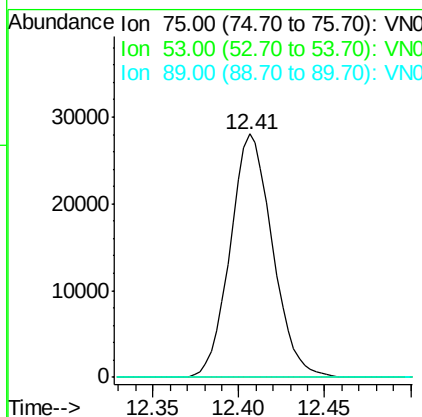
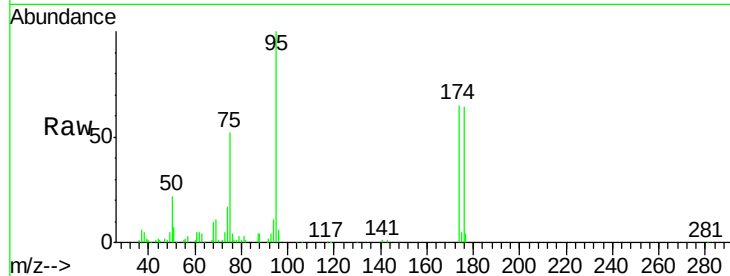




#77
t-1,4-Dichloro-2-butene
Concen: 50.14 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.10 min
Lab File: VN046542.D
Acq: 24 Jan 2018 13:02

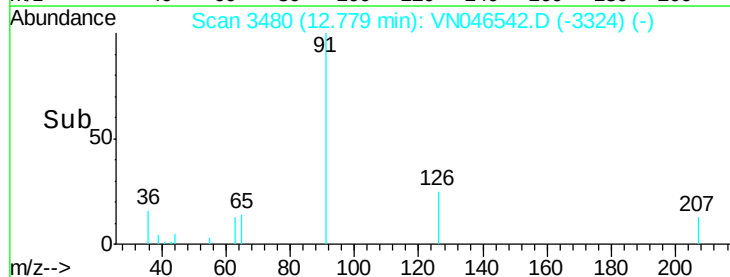
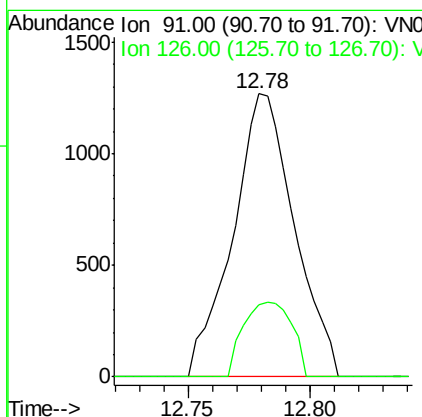
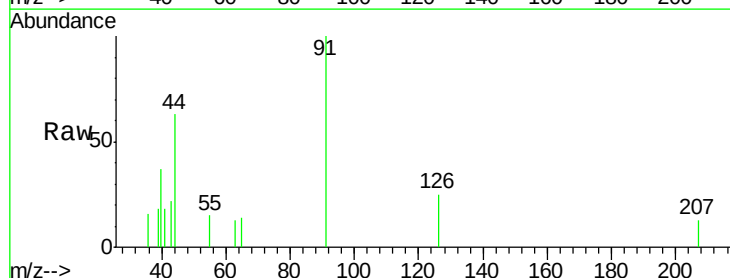
Instrument :
MSVOA_N
ClientSampleId :
VN0124WBL01

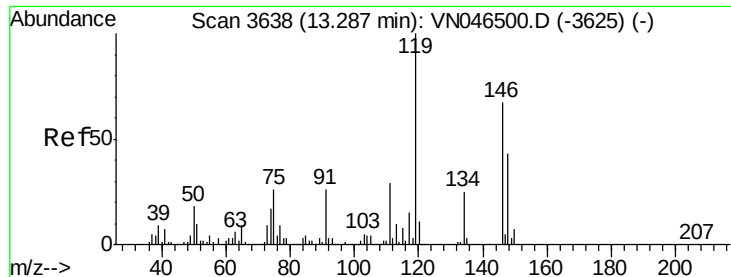
Tgt Ion: 75 Resp: 48115
Ion Ratio Lower Upper
75 100
53 0.0 46.8 140.3#
89 0.0 20.2 60.5#



#78
4-Chlorotoluene
Concen: 0.25 ug/l
RT: 12.78 min Scan# 3480
Delta R.T. 0.00 min
Lab File: VN046542.D
Acq: 24 Jan 2018 13:02

Tgt Ion: 91 Resp: 2215
Ion Ratio Lower Upper
91 100
126 20.7 0.0 58.8

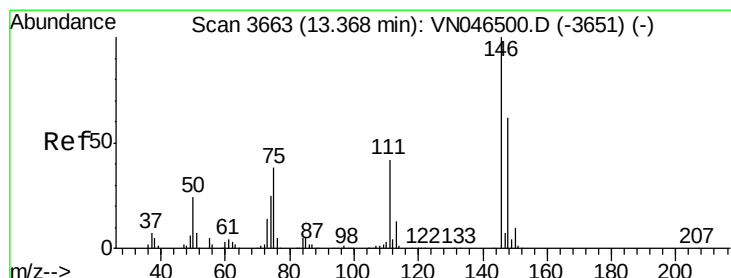
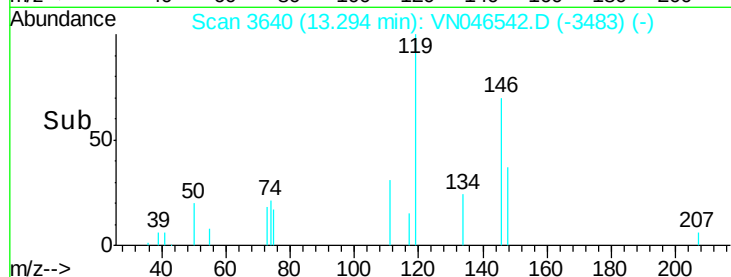
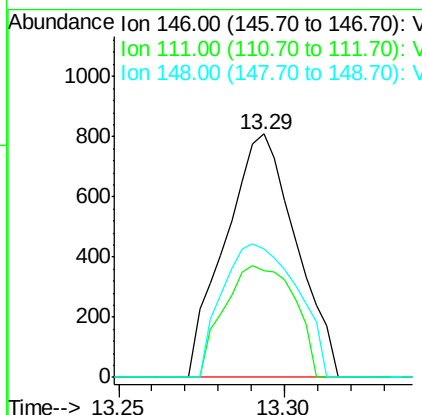
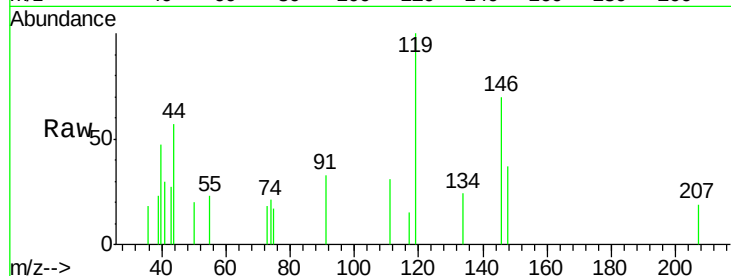




#83
 1,3-Dichlorobenzene
 Concen: 0.26 ug/l
 RT: 13.29 min Scan# 3640
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

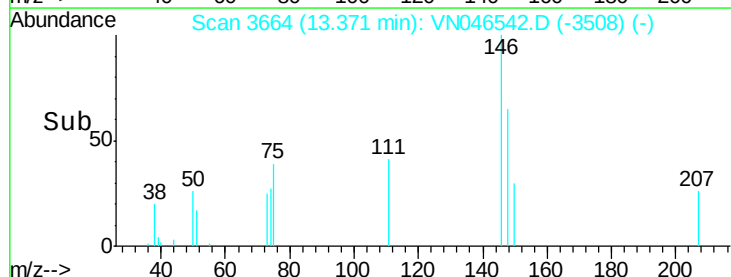
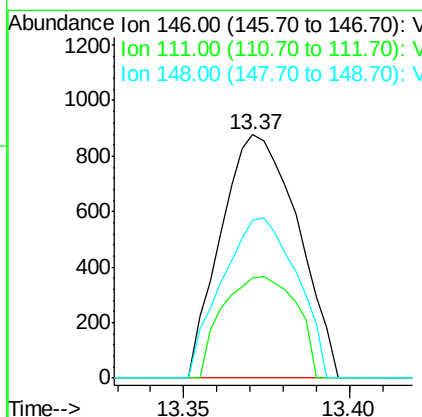
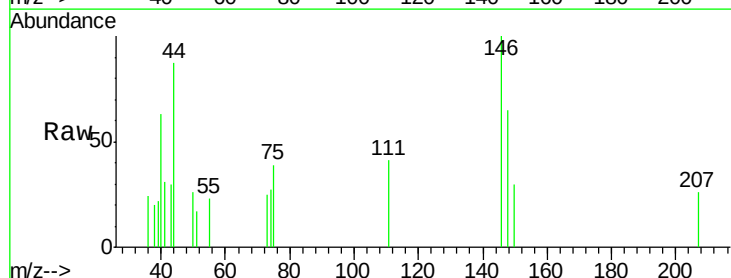
Instrument :
 MSVOA_N
 ClientSampled :
 VN0124WBL01

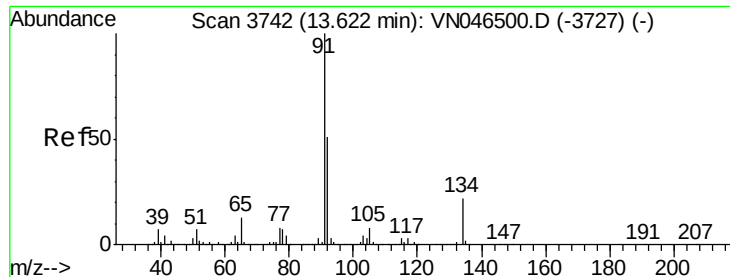
Tgt Ion:146 Resp: 1199
 Ion Ratio Lower Upper
 146 100
 111 45.6 22.3 66.9
 148 58.1 31.3 93.9



#84
 1,4-Dichlorobenzene
 Concen: 0.31 ug/l
 RT: 13.37 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Tgt Ion:146 Resp: 1411
 Ion Ratio Lower Upper
 146 100
 111 40.0 21.6 64.8
 148 64.4 31.8 95.3





#85

n-Butylbenzene

Concen: 0.31 ug/l

RT: 13.62 min Scan# 3742

Delta R.T. 0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0124WBL01

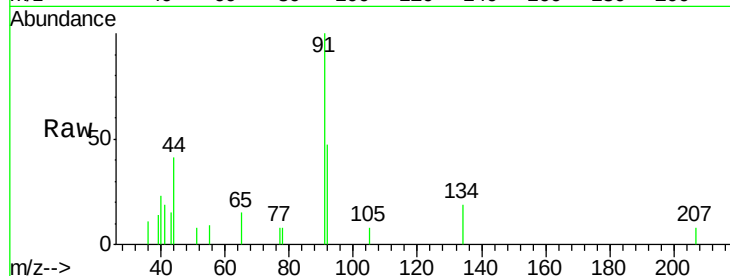
Tgt Ion: 91 Resp: 3218

Ion Ratio Lower Upper

91 100

92 46.7 0.0 105.6

134 17.8 0.0 44.6



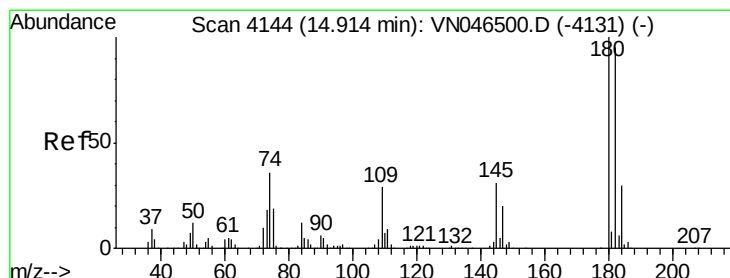
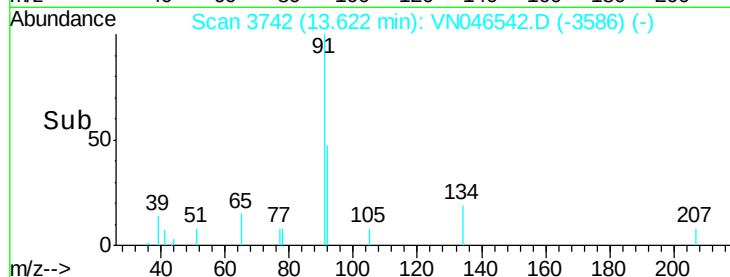
Abundance Ion 91.00 (90.70 to 91.70): VN046500.D (-3727) (-)

Ion 92.00 (91.70 to 92.70): VN046500.D (-3727) (-)

Ion 134.00 (133.70 to 134.70): VN046500.D (-3727) (-)

Time-->

13.60 13.65



#89

1,2,4-Trichlorobenzene

Concen: 0.30 ug/l

RT: 14.92 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

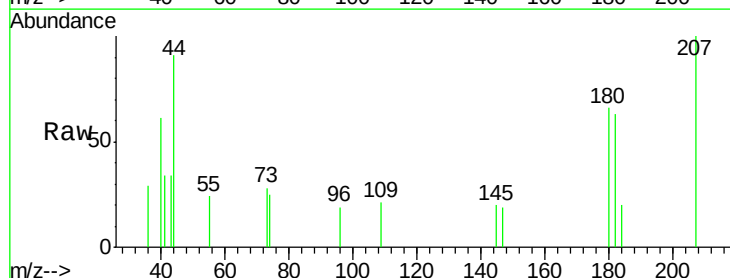
Tgt Ion: 180 Resp: 791

Ion Ratio Lower Upper

180 100

182 90.5 75.7 113.5

145 11.8 25.2 37.8#



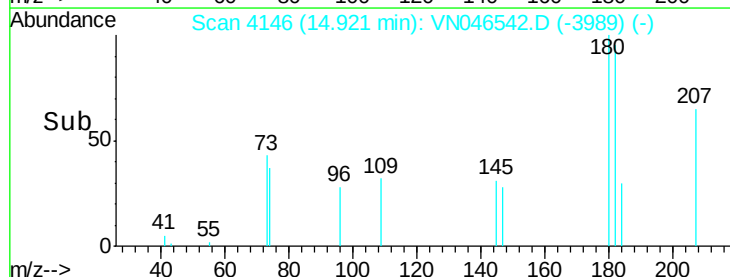
Abundance Ion 180.00 (179.70 to 180.70): VN046500.D (-4131) (-)

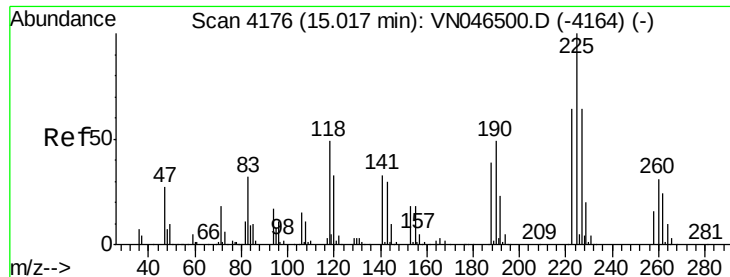
Ion 182.00 (181.70 to 182.70): VN046500.D (-4131) (-)

Ion 145.00 (144.70 to 145.70): VN046500.D (-4131) (-)

Time-->

14.90 14.92 14.94





#90

Hexachlorobutadiene

Concen: 0.45 ug/l

RT: 15.02 min Scan# 4177

Delta R.T. 0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

Instrument :

MSVOA_N

ClientSampled :

VN0124WBL01

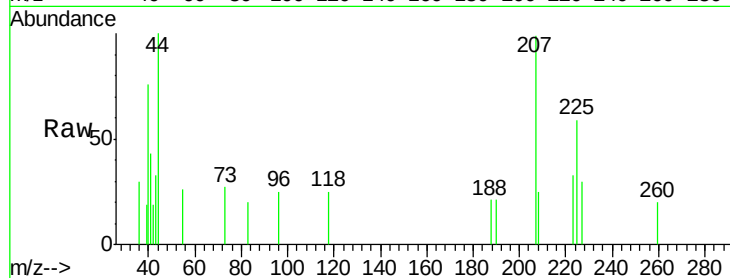
Tgt Ion:225 Resp: 628

Ion Ratio Lower Upper

225 100

223 55.3 0.0 123.6

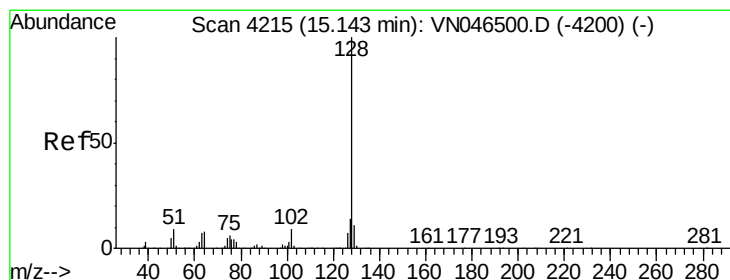
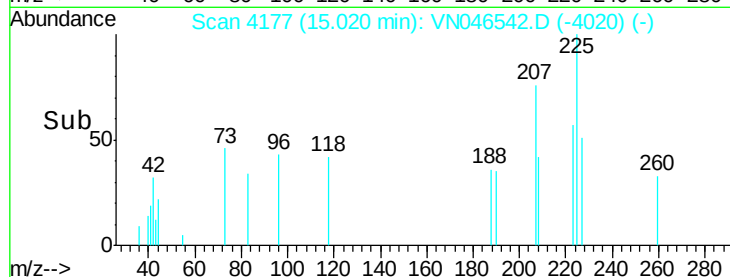
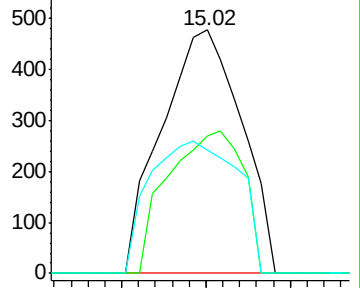
227 60.0 0.0 128.2



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: 0.30 ug/l

RT: 15.15 min Scan# 4216

Delta R.T. 0.00 min

Lab File: VN046542.D

Acq: 24 Jan 2018 13:02

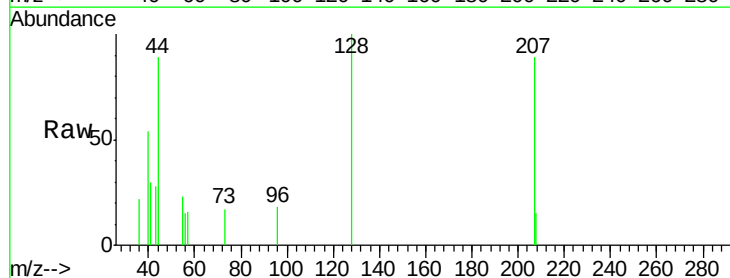
Tgt Ion:128 Resp: 1891

Ion Ratio Lower Upper

128 100

127 3.6 10.2 15.2#

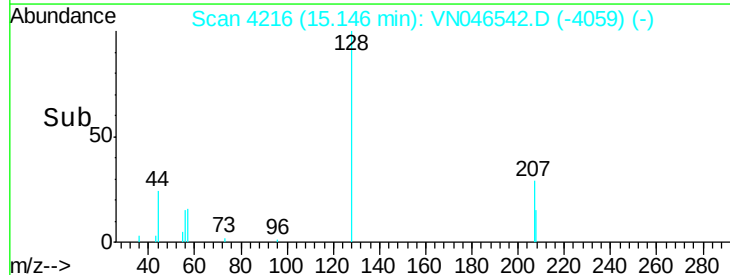
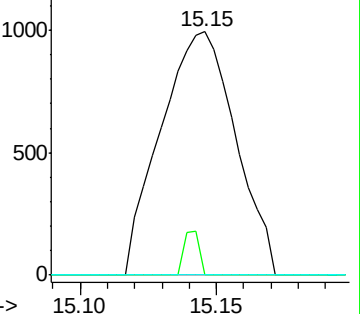
129 0.0 8.7 13.1#

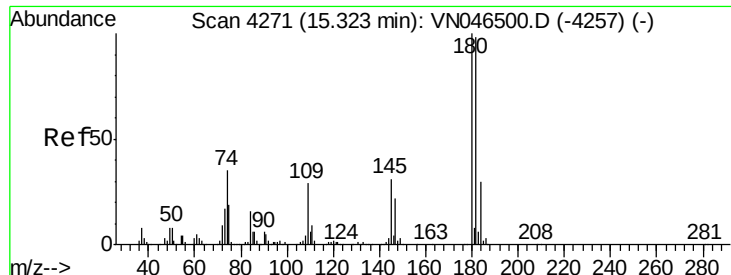


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

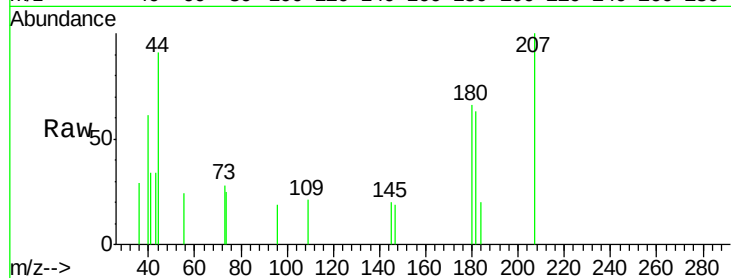




#92
 1,2,3-Trichlorobenzene
 Concen: 0.31 ug/l
 RT: 14.92 min Scan# 4146
 Delta R.T. -0.40 min
 Lab File: VN046542.D
 Acq: 24 Jan 2018 13:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0124WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	0.0	190.8
145	11.8	0.0	68.4



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

