

Data File : VN051917.D
Acq On : 18 Oct 2018 15:34
Operator : MD\SY
Sample : J5580-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-23

Quant Time: Oct 19 06:43:49 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	158381	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	2124982	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	1801411	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	297306	30.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.83%
60) 4-Bromofluorobenzene	12.40	95	277989	10.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	35.67%#
63) Toluene-d8	10.09	98	978171	12.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	41.70%#

Target Compounds

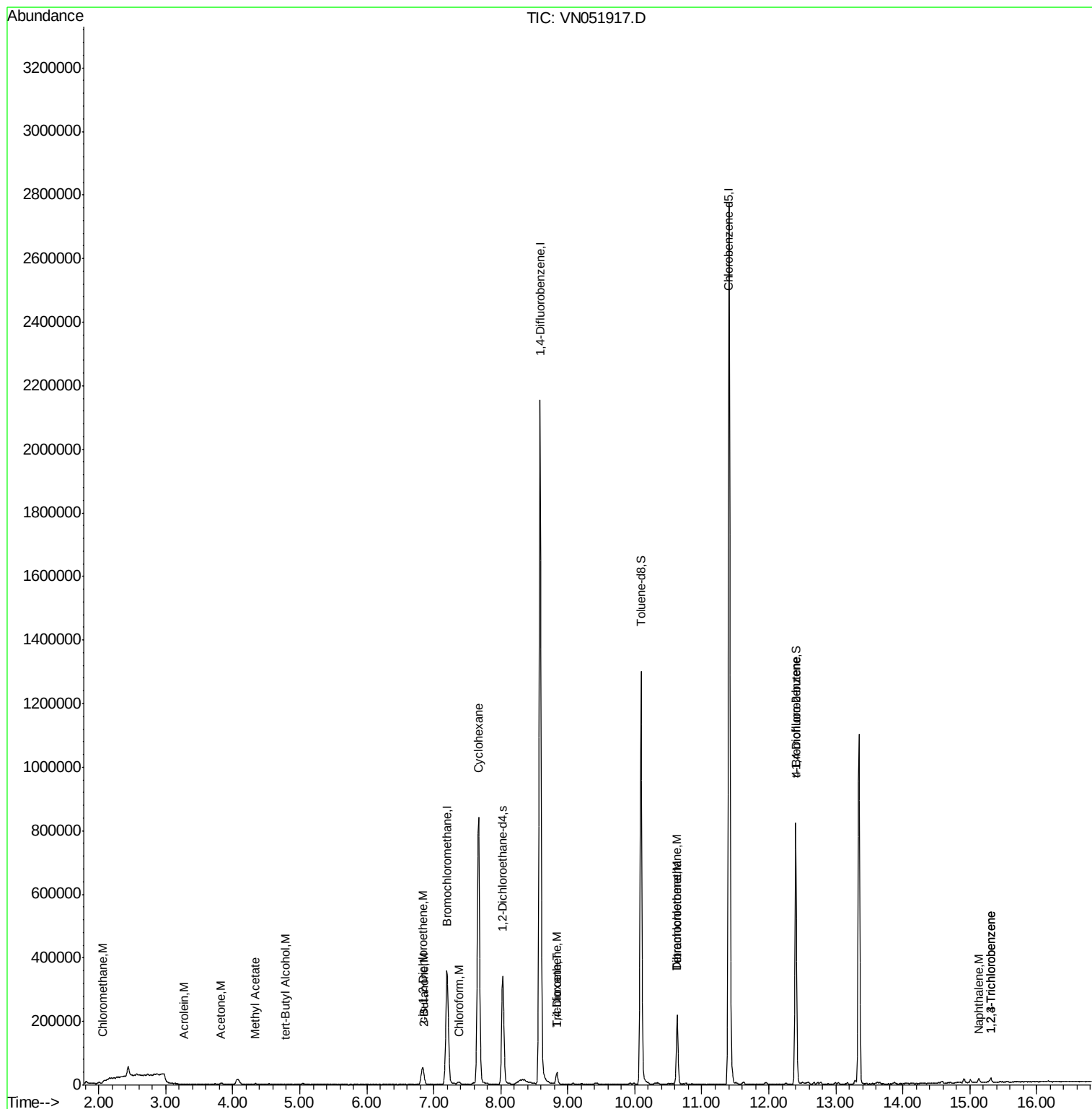
					Qvalue	
3) Chloromethane	2.06	50	1525	0.235	ug/l	96
12) Methyl Acetate	4.33	43	1109	0.245	ug/l #	86
13) Acrolein	3.28	56	73	0.245	ug/l	99
15) Acetone	3.82	58	223	0.446	ug/l	80
22) cis-1,2-Dichloroethene	6.83	96	36327	3.714	ug/l #	72
23) tert-Butyl Alcohol	4.80	59	305	0.572	ug/l #	100
25) Chloroform	7.37	83	6711	0.420	ug/l #	76
26) Cyclohexane	7.66	56	12569	1.100	ug/l #	41
30) 2-Butanone	6.86	43	1633	0.285	ug/l #	95
37) Trichloroethene	8.84	130	13300	0.529	ug/l	87
45) 1,4-Dioxane	8.83	88	59	0.296	ug/l #	1
53) Dibromochloromethane	10.63	129	48710	2.012	ug/l #	9
61) Tetrachloroethene	10.63	164	52865	2.295	ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	138193	25.514	ug/l #	12
89) 1,2,4-Trichlorobenzene	15.31	180	4732	7.888	ug/l	95
91) Naphthalene	15.13	128	11249	8.718	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	4732	0.233	ug/l	90

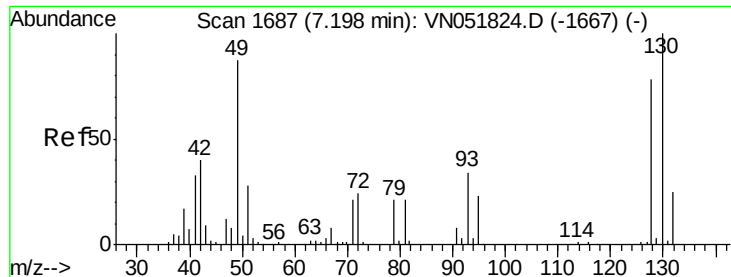
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampled :

2-AVE-23

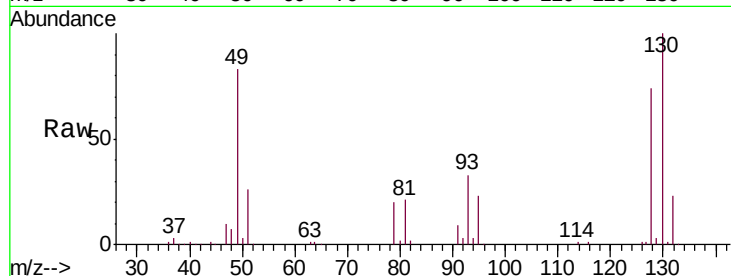
Tgt Ion:128 Resp: 158381

Ion Ratio Lower Upper

128 100

49 108.9 0.0 403.3

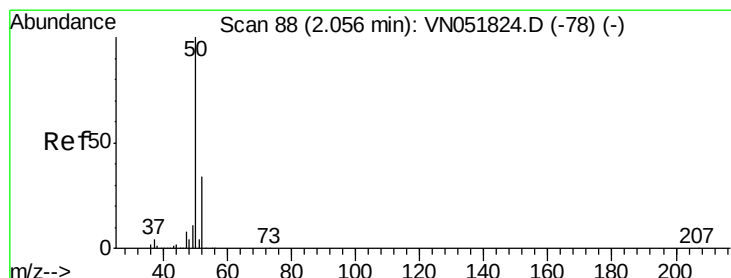
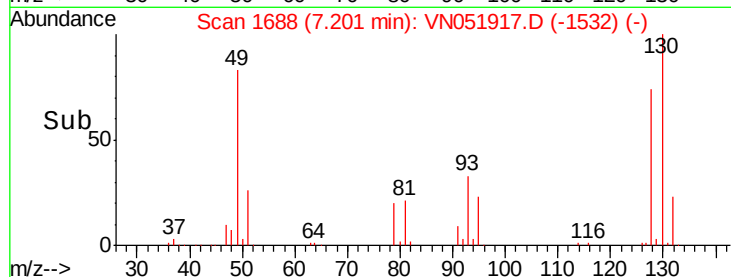
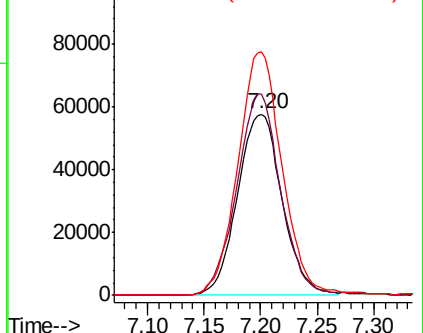
130 132.8 0.0 326.0



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: 0.235 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051917.D

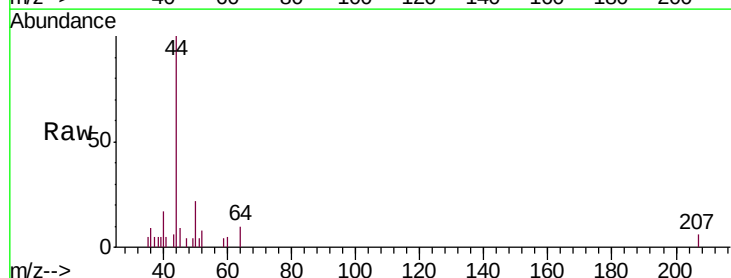
Acq: 18 Oct 2018 15:34

Tgt Ion: 50 Resp: 1525

Ion Ratio Lower Upper

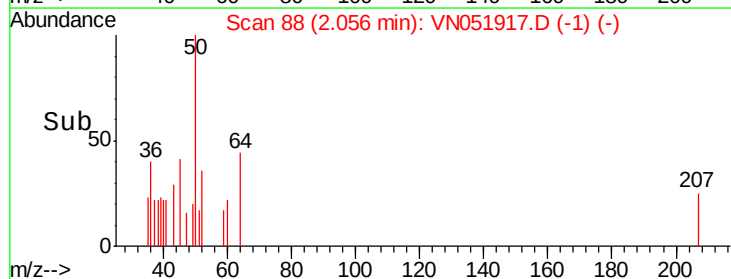
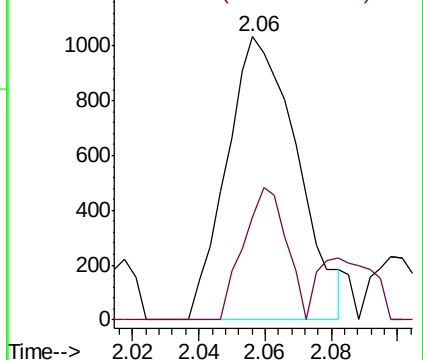
50 100

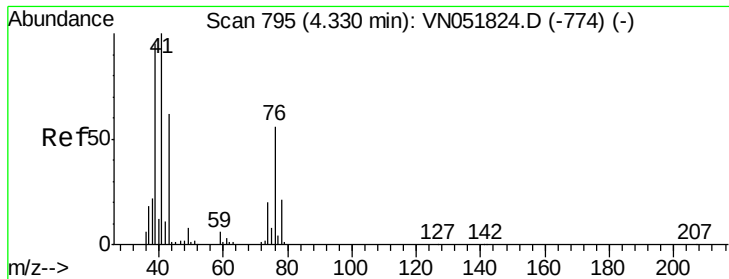
52 36.3 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN

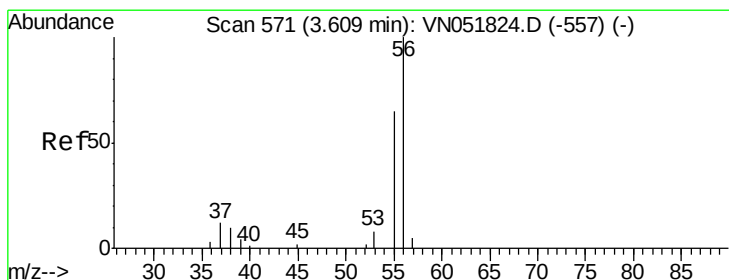
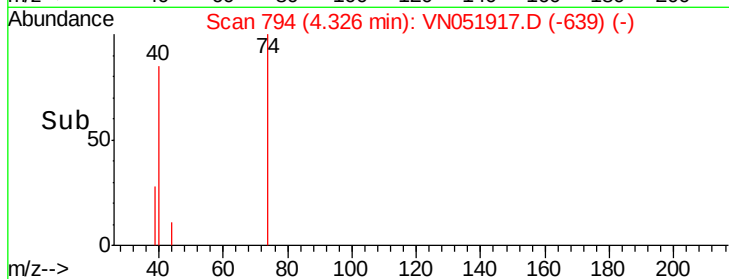
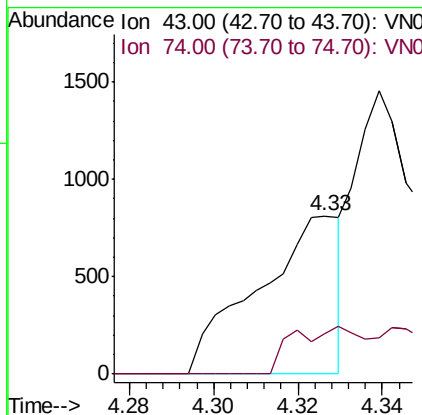
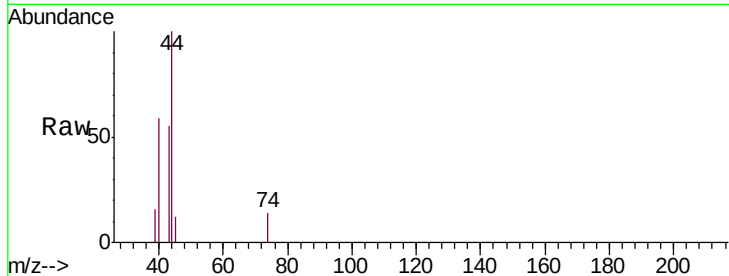




#12
Methyl Acetate
Concen: 0.245 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

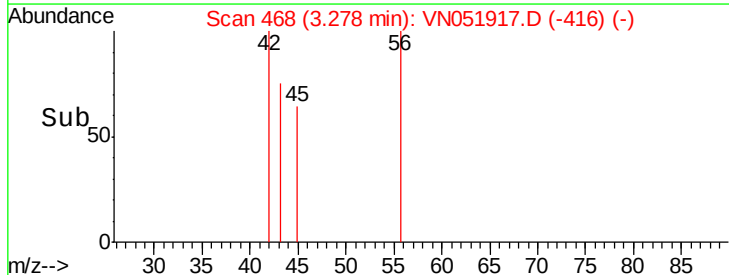
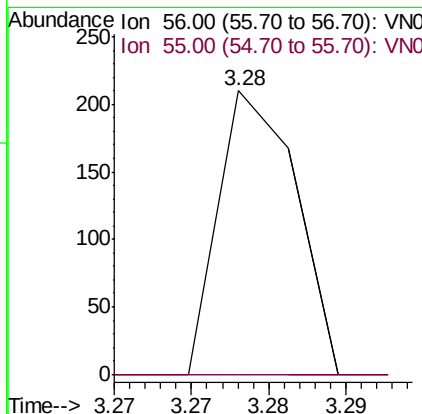
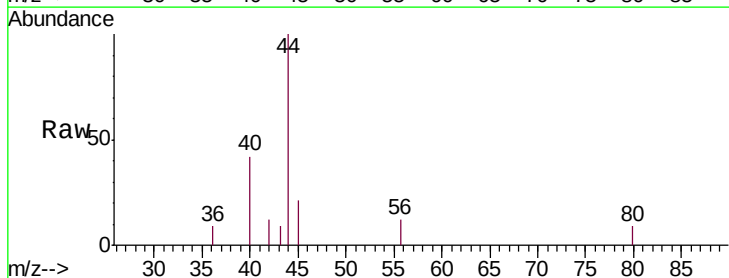
Instrument :
MSVOA_N
ClientSampled :
2-AVE-23

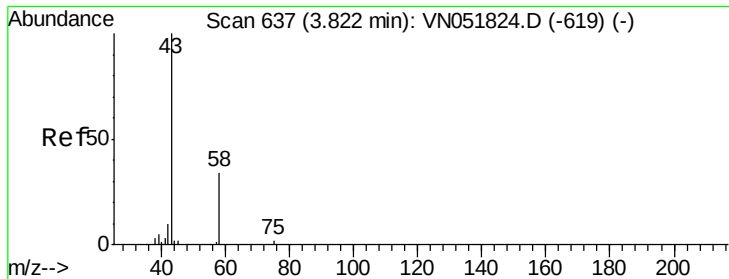
Tgt Ion: 43 Resp: 1109
Ion Ratio Lower Upper
43 100
74 19.8 21.8 32.6#



#13
Acrolein
Concen: 0.245 ug/l
RT: 3.28 min Scan# 468
Delta R.T. -0.33 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

Tgt Ion: 56 Resp: 73
Ion Ratio Lower Upper
56 100
55 80.8 64.0 96.0





#15

Acetone

Concen: 0.446 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

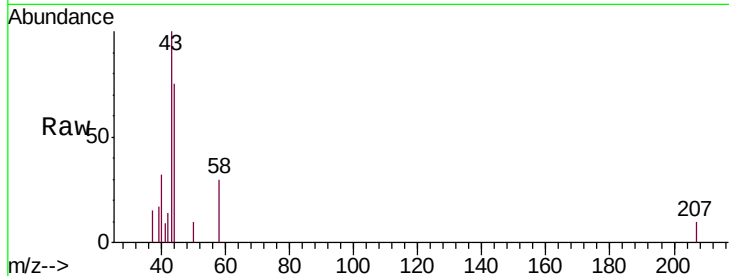
2-AVE-23

Tgt Ion: 58 Resp: 223

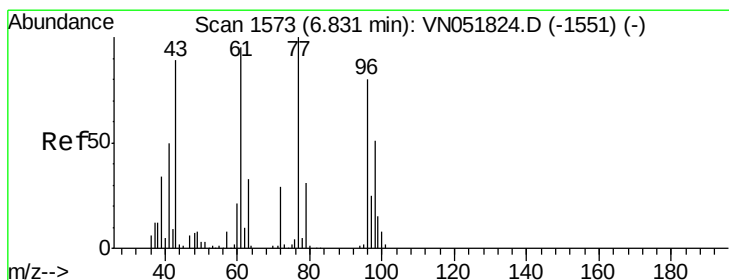
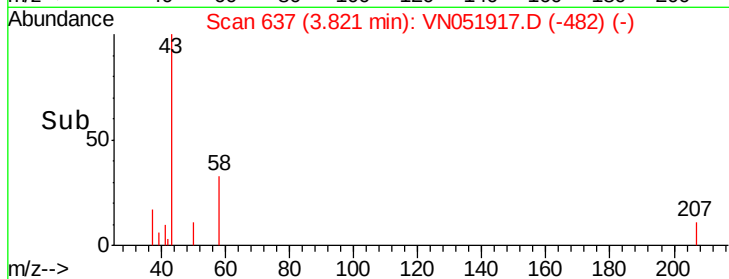
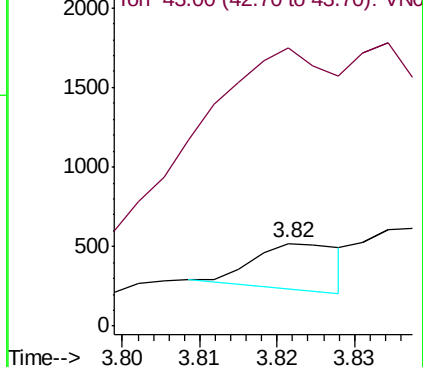
Ion Ratio Lower Upper

58 100

43 252.4 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)



#22

cis-1,2-Dichloroethene

Concen: 3.714 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

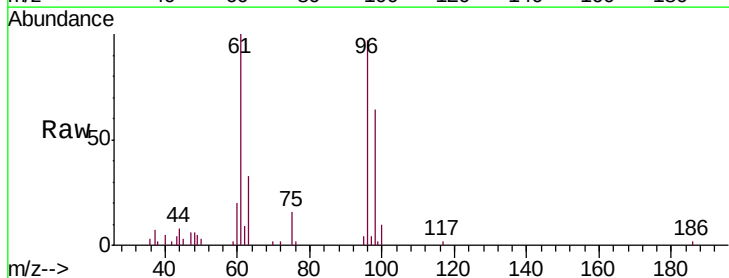
Tgt Ion: 96 Resp: 36327

Ion Ratio Lower Upper

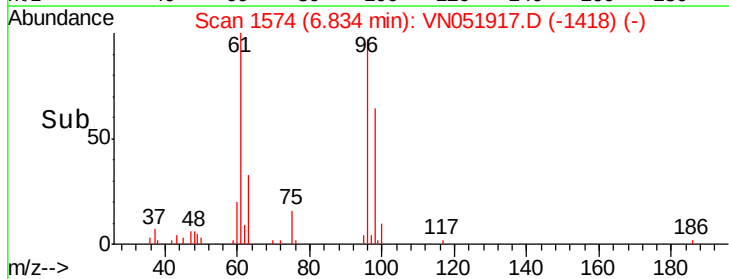
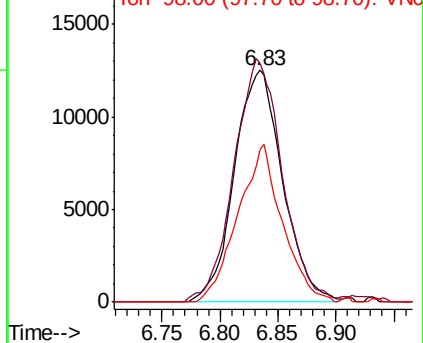
96 100

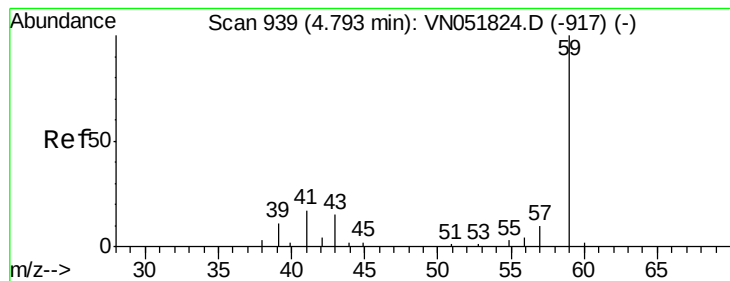
61 104.7 124.5 186.7#

98 62.8 51.9 77.9



Abundance Ion 96.00 (95.70 to 96.70): VN051824.D (-1551) (-)





#23

tert-Butyl Alcohol

Concen: 0.572 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.01 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampled :

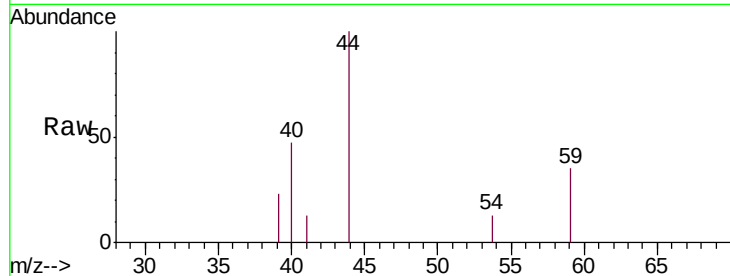
2-AVE-23

Tgt Ion: 59 Resp: 305

Ion Ratio Lower Upper

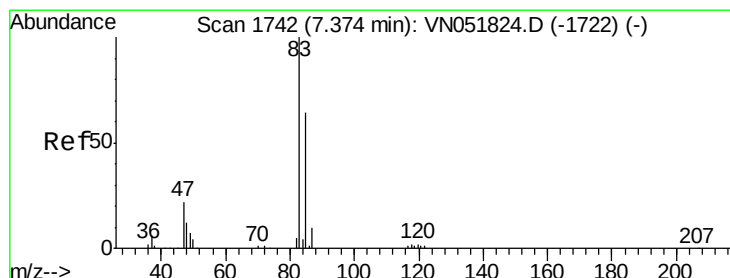
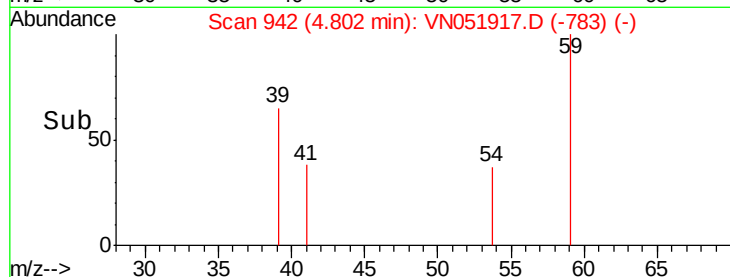
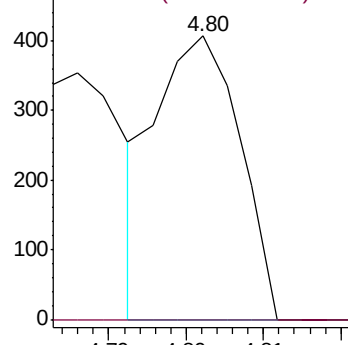
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 0.420 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051917.D

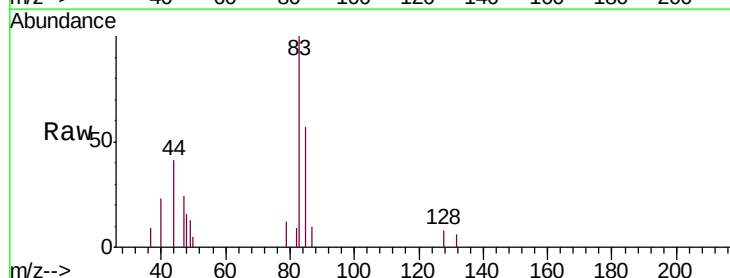
Acq: 18 Oct 2018 15:34

Tgt Ion: 83 Resp: 6711

Ion Ratio Lower Upper

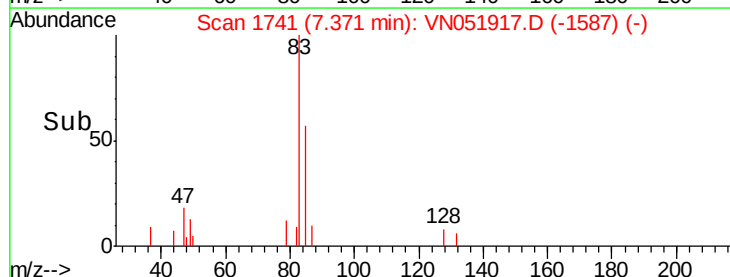
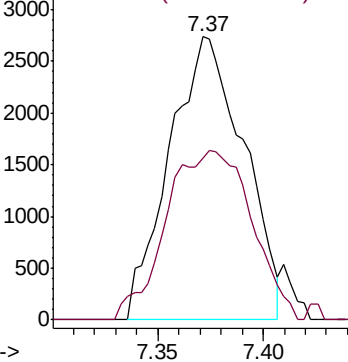
83 100

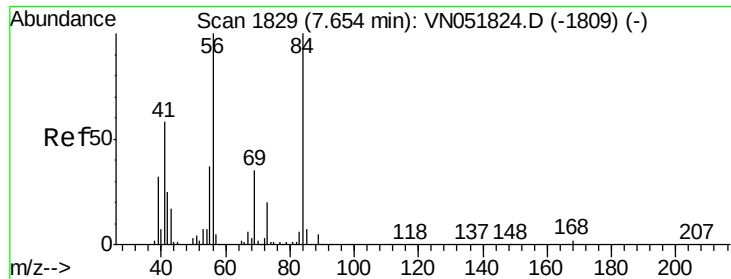
85 48.7 54.6 82.0#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

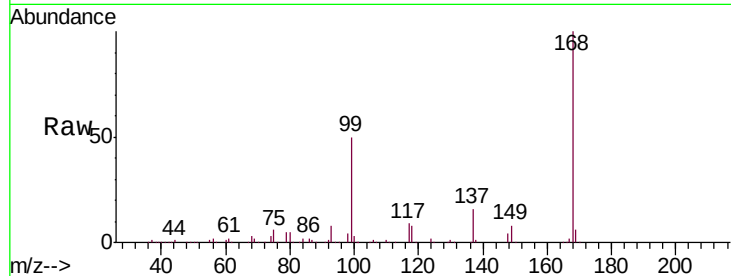




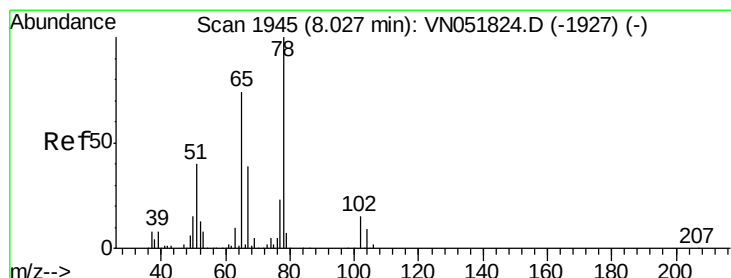
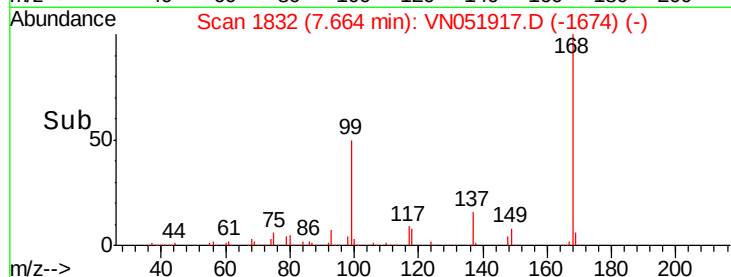
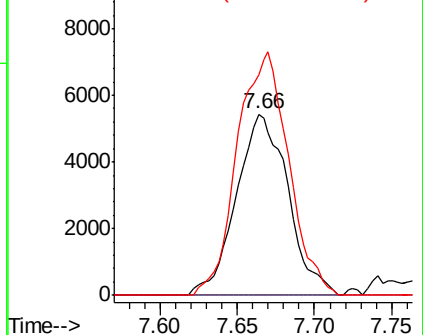
#26
Cyclohexane
Concen: 1.100 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

Instrument :
MSVOA_N
ClientSampled :
2-AVE-23

Tgt Ion: 56 Resp: 12569
Ion Ratio Lower Upper
56 100
89 0.0 1.5 2.3#
84 133.7 64.2 96.4#

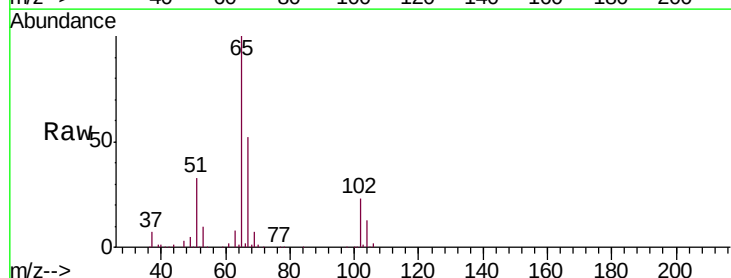


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 89.00 (88.70 to 89.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

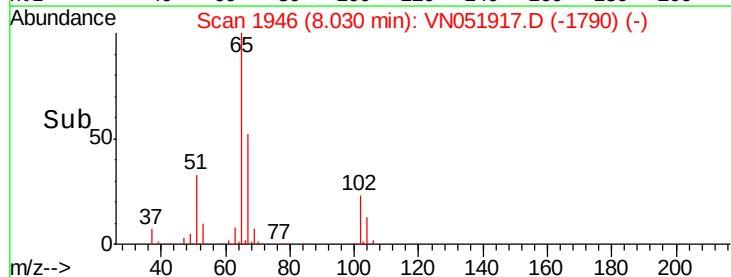
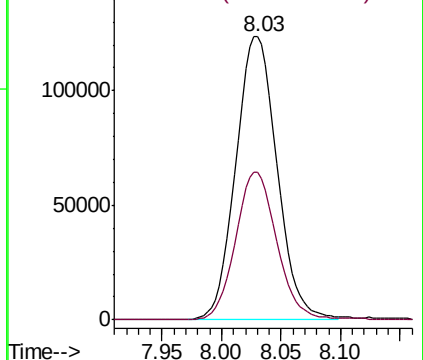


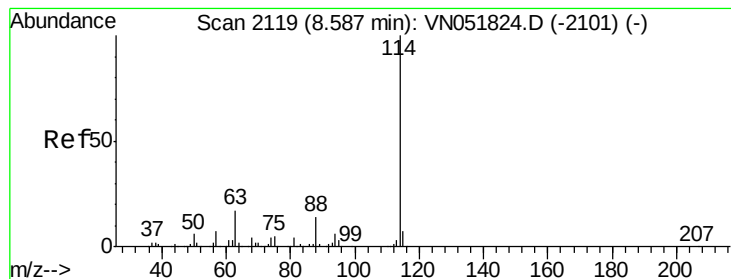
#27
1,2-Dichloroethane-d4
Concen: 1.100 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

Tgt Ion: 65 Resp: 297306
Ion Ratio Lower Upper
65 100
67 52.0 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0
Ion 67.00 (66.70 to 67.70): VN0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampled :

2-AVE-23

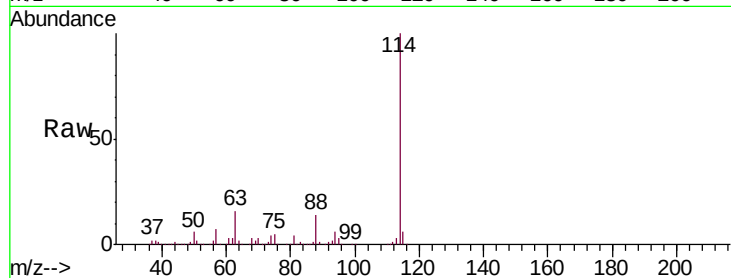
Tgt Ion:114 Resp: 2124982

Ion Ratio Lower Upper

114 100

63 16.1 16.2 24.2#

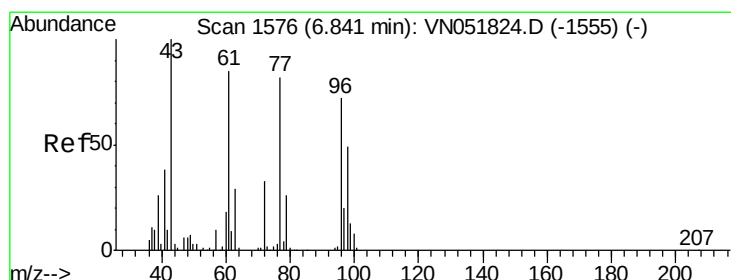
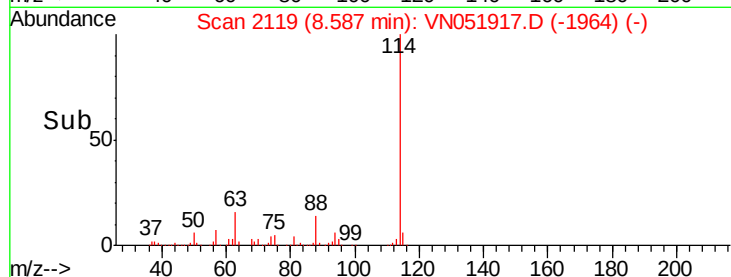
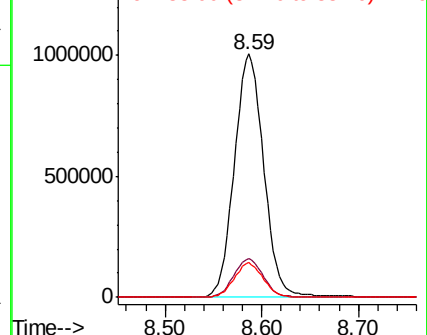
88 13.9 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051824.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051824.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051824.D (-2101) (-)



#30

2-Butanone

Concen: 0.285 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

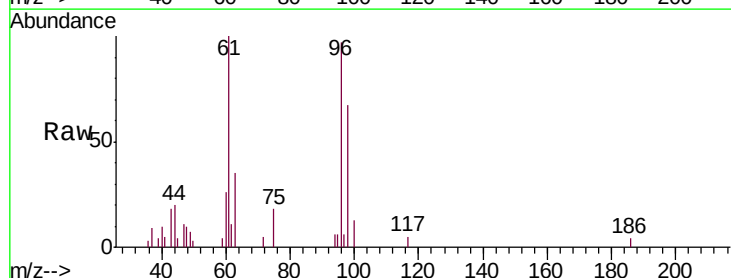
Tgt Ion: 43 Resp: 1633

Ion Ratio Lower Upper

43 100

57 4.3 4.5 6.7#

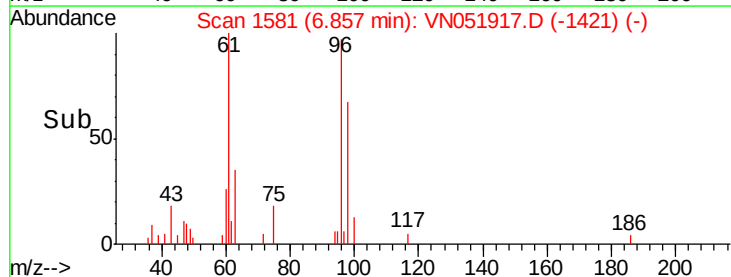
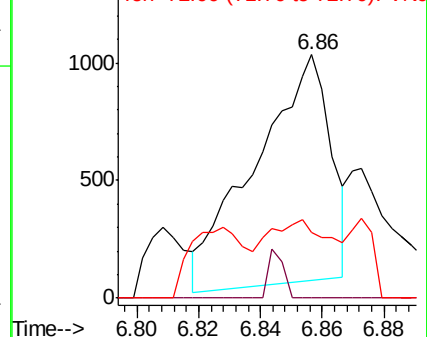
72 29.8 21.5 32.3

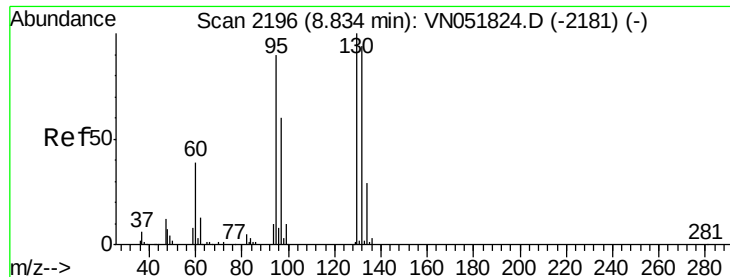


Abundance Ion 43.00 (42.70 to 43.70): VN051824.D (-1555) (-)

Ion 57.00 (56.70 to 57.70): VN051824.D (-1555) (-)

Ion 72.00 (71.70 to 72.70): VN051824.D (-1555) (-)

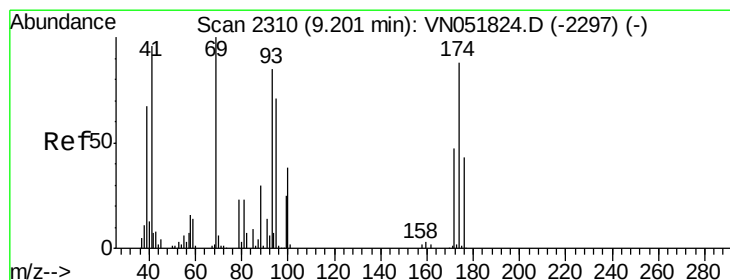
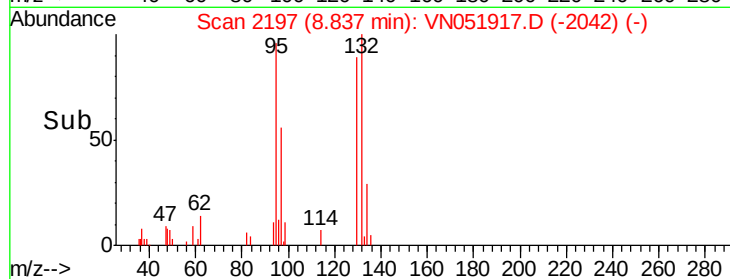
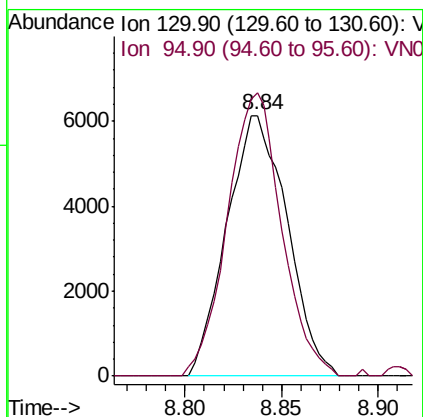
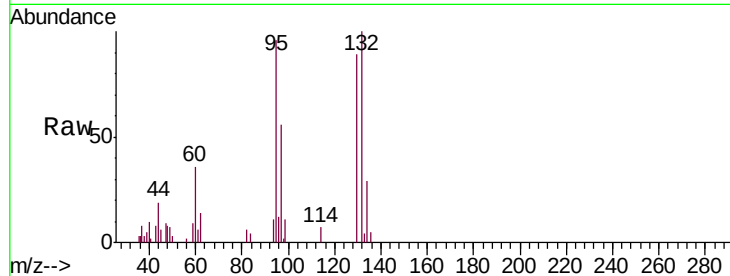




#37
 Trichloroethene
 Concen: 0.529 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN051917.D
 Acq: 18 Oct 2018 15:34

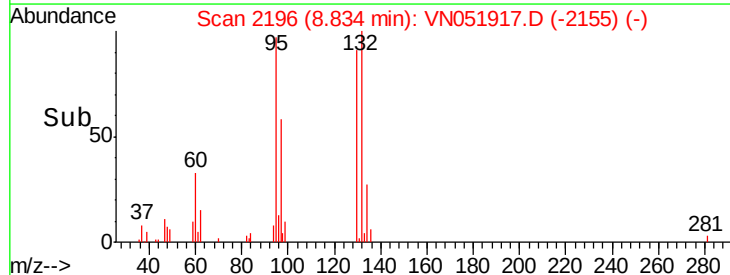
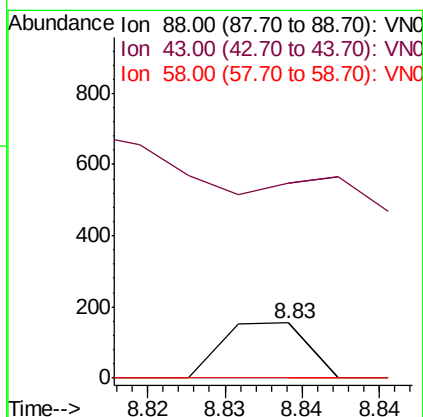
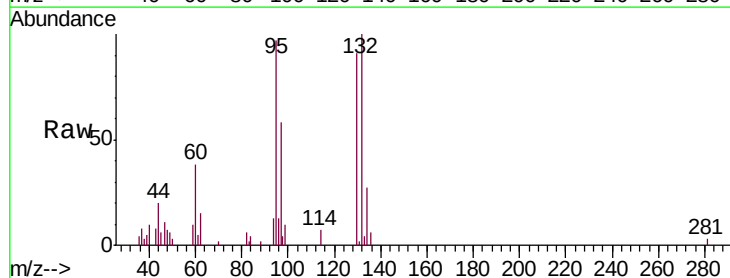
Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-23

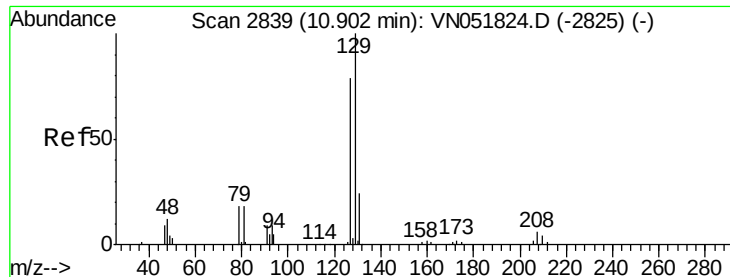
Tgt Ion: 130 Resp: 13300
 Ion Ratio Lower Upper
 130 100
 95 108.6 76.4 114.6



#45
 1,4-Dioxane
 Concen: 0.296 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.37 min
 Lab File: VN051917.D
 Acq: 18 Oct 2018 15:34

Tgt Ion: 88 Resp: 59
 Ion Ratio Lower Upper
 88 100
 43 327.1 26.2 39.2#
 58 0.0 65.6 98.4#





#53

Dibromochloromethane

Concen: 2.012 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampleId :

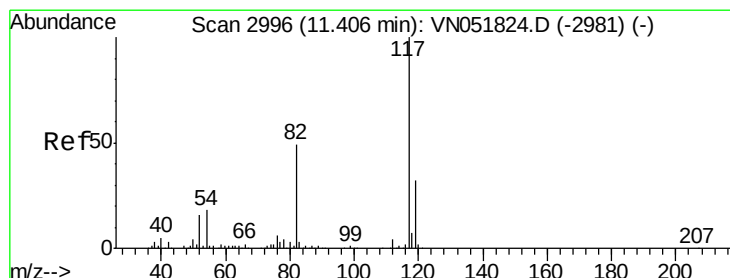
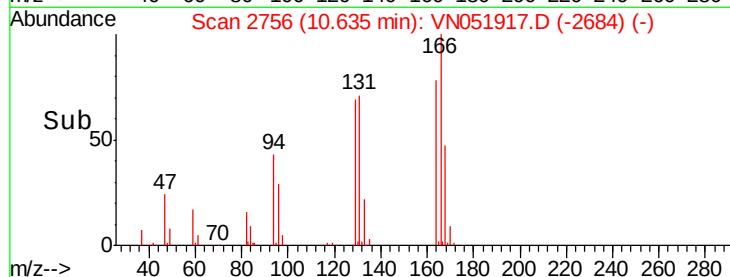
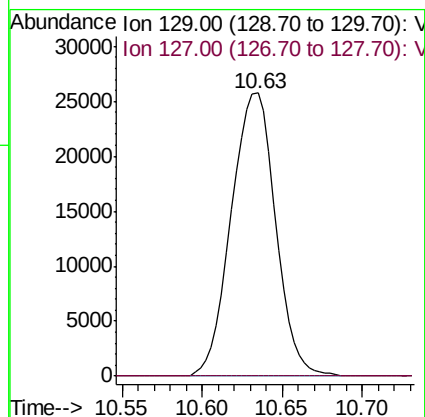
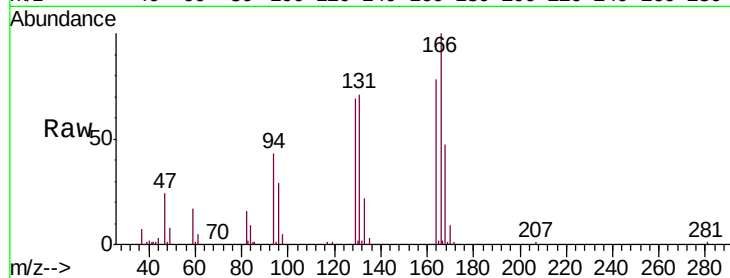
2-AVE-23

Tgt Ion:129 Resp: 48710

Ion Ratio Lower Upper

129 100

127 0.0 40.2 120.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

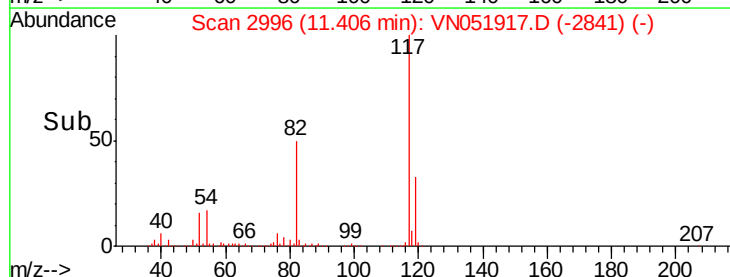
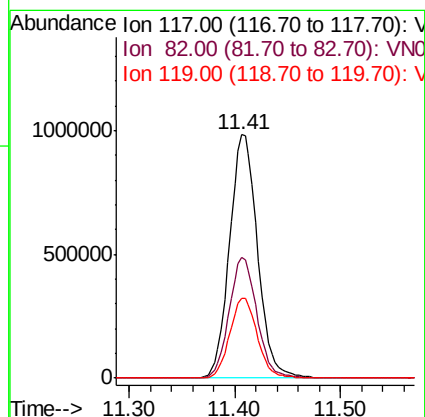
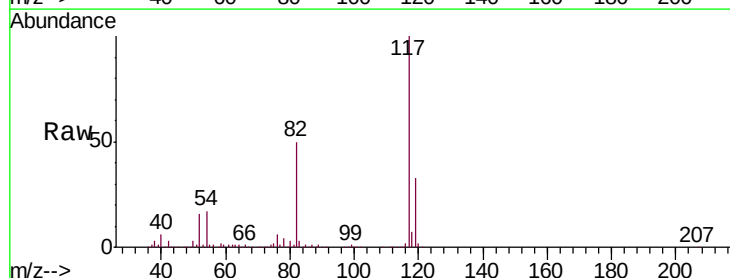
Tgt Ion:117 Resp: 1801411

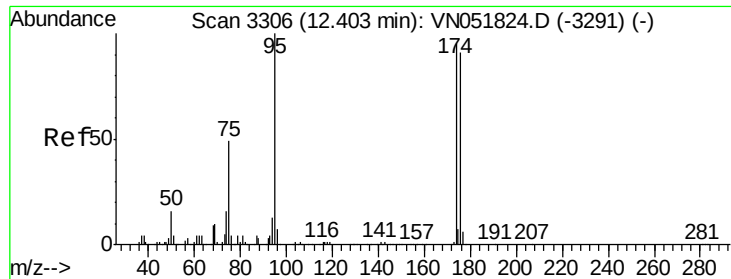
Ion Ratio Lower Upper

117 100

82 49.2 44.1 66.1

119 32.4 25.8 38.8

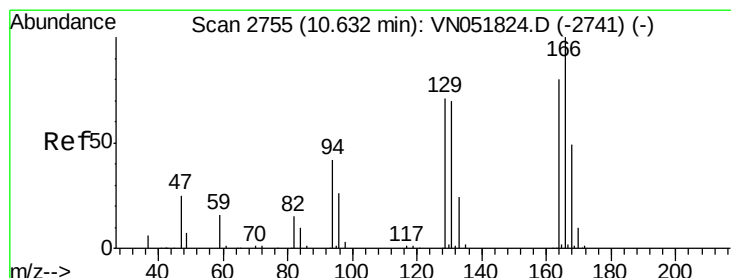
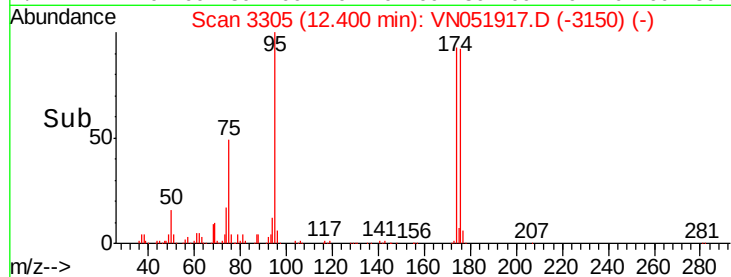
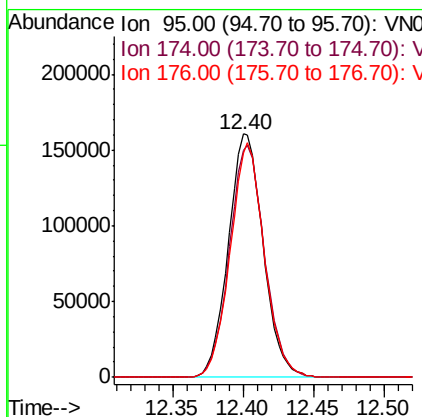
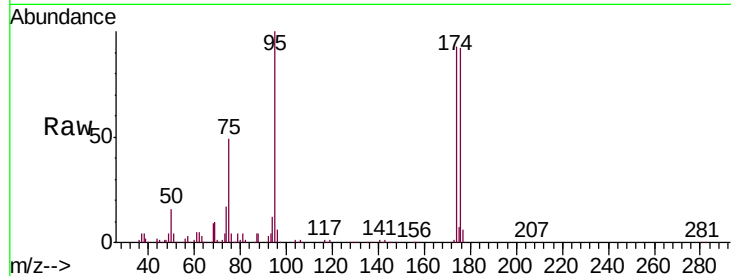




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

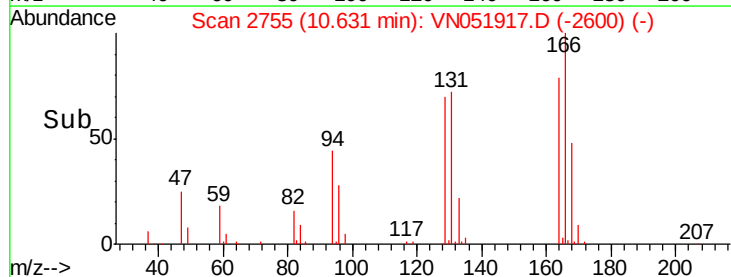
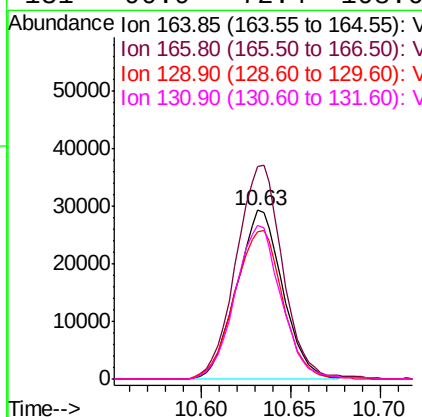
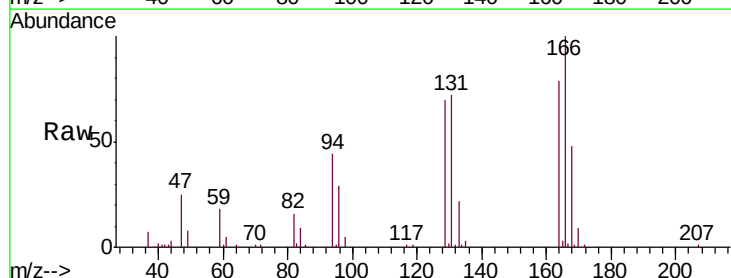
Instrument :
MSVOA_N
ClientSampleId :
2-AVE-23

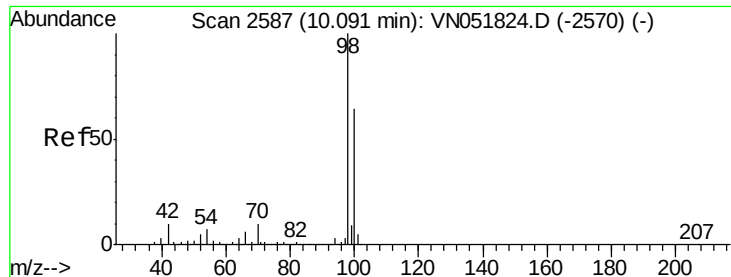
Tgt Ion: 95 Resp: 277989
Ion Ratio Lower Upper
95 100
174 96.0 73.5 110.3
176 93.8 70.2 105.2



#61
Tetrachloroethene
Concen: 2.295 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051917.D
Acq: 18 Oct 2018 15:34

Tgt Ion: 164 Resp: 52865
Ion Ratio Lower Upper
164 100
166 125.9 98.7 148.1
129 87.7 69.6 104.4
131 90.9 72.4 108.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

Instrument :

MSVOA_N

ClientSampled :

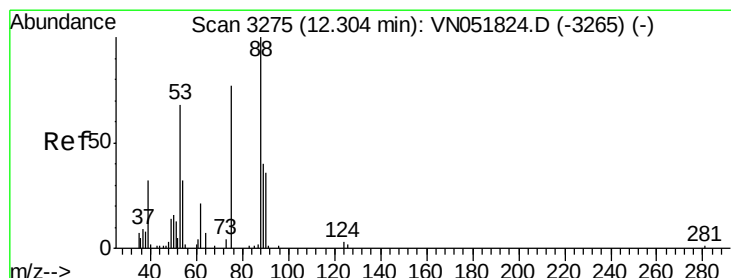
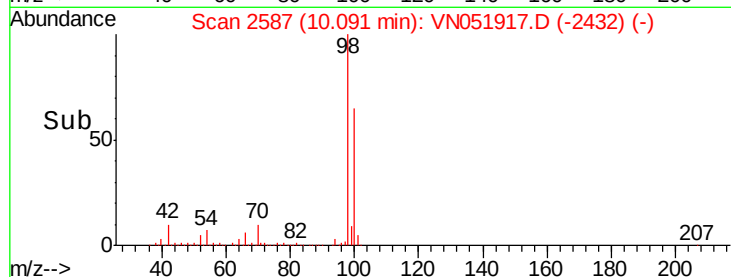
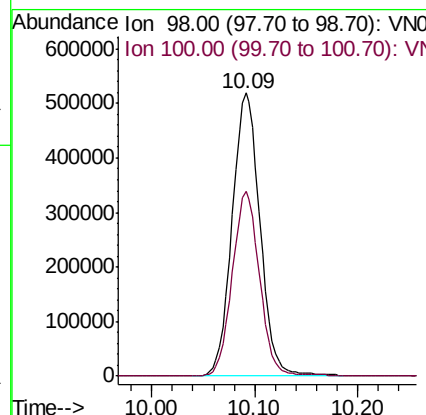
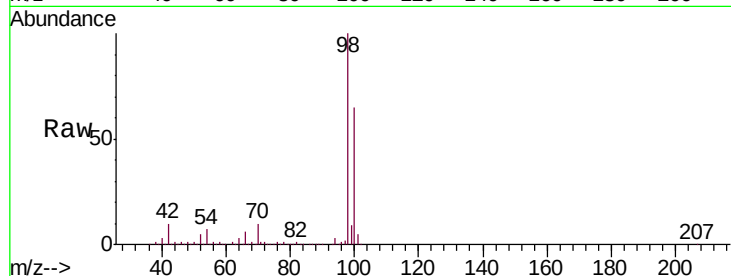
2-AVE-23

Tgt Ion: 98 Resp: 978171

Ion Ratio Lower Upper

98 100

100 63.7 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 25.514 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051917.D

Acq: 18 Oct 2018 15:34

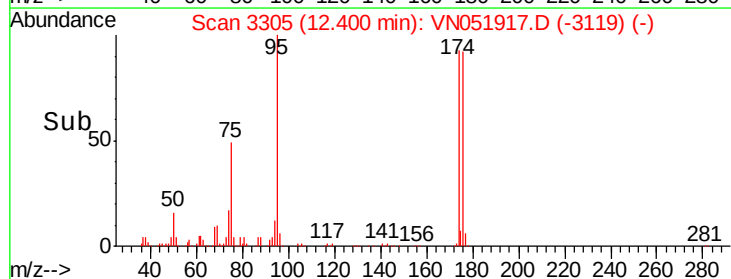
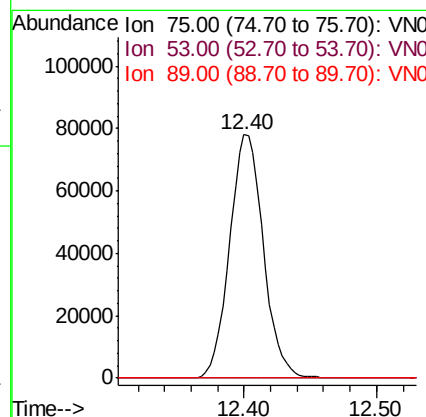
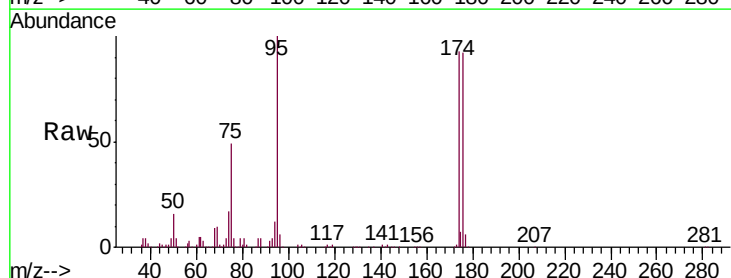
Tgt Ion: 75 Resp: 138193

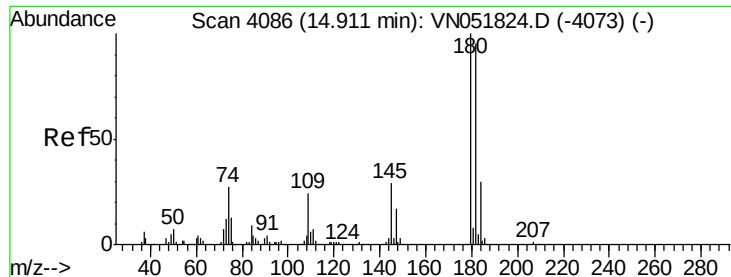
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

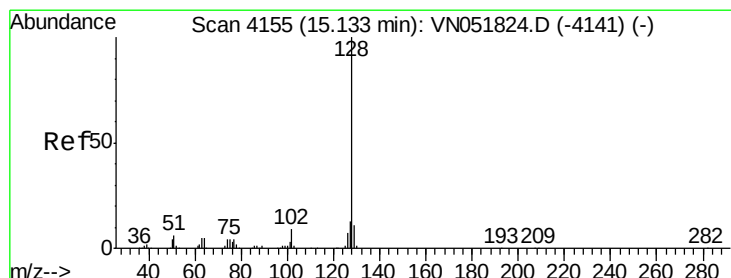
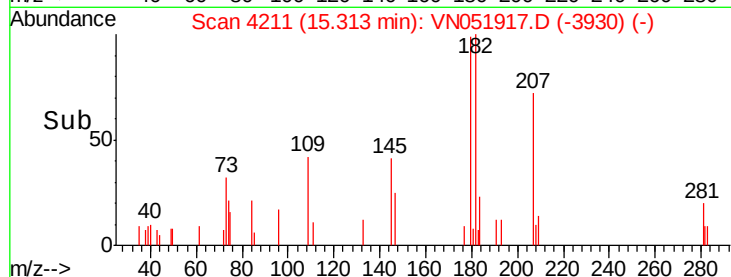
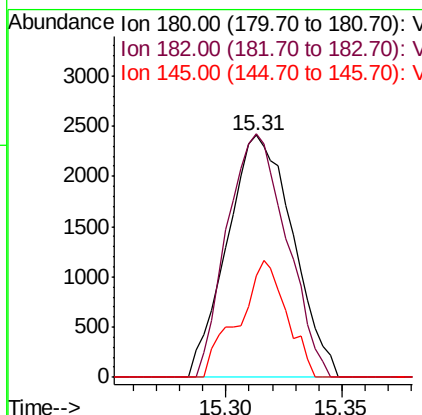
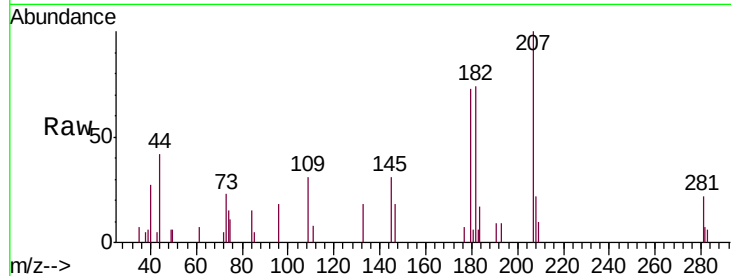




#89
 1,2,4-Trichlorobenzene
 Concen: 7.888 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.40 min
 Lab File: VN051917.D
 Acq: 18 Oct 2018 15:34

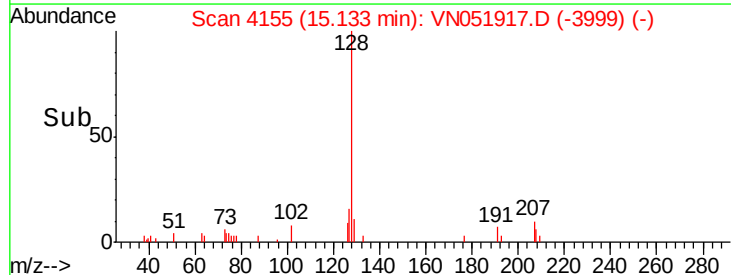
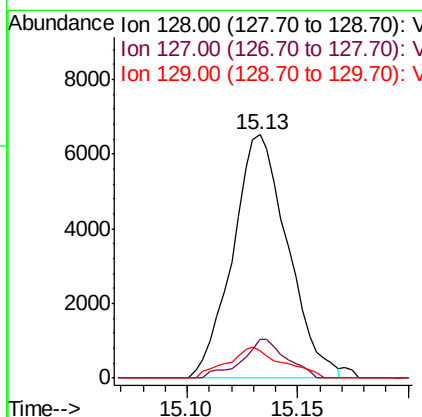
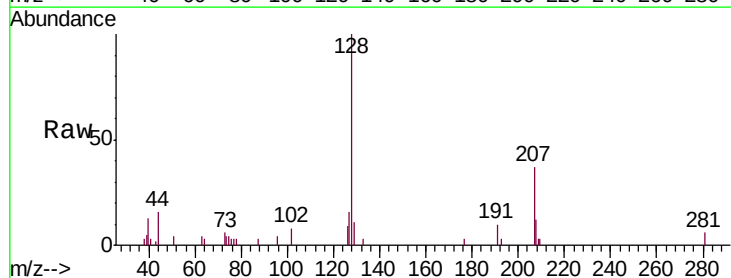
Instrument :
 MSVOA_N
 ClientSampled :
 2-AVE-23

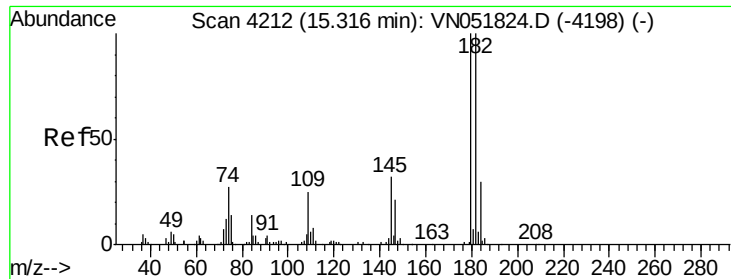
Tgt Ion:180 Resp: 4732
 Ion Ratio Lower Upper
 180 100
 182 91.5 77.7 116.5
 145 28.6 23.4 35.2



#91
 Naphthalene
 Concen: 8.718 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051917.D
 Acq: 18 Oct 2018 15:34

Tgt Ion:128 Resp: 11249
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.1 15.1
 129 12.4 8.4 12.6





#92
 1,2,3-Trichlorobenzene
 Concen: 0.233 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN051917.D
 Acq: 18 Oct 2018 15:34

Instrument :
 MSVOA_N
 ClientSampleId :
 2-AVE-23

Tgt Ion:180 Resp: 4732
 Ion Ratio Lower Upper
 180 100
 182 91.5 0.0 198.0
 145 28.6 0.0 36.8

