

Data File : VN051920.D
Acq On : 18 Oct 2018 16:54
Operator : MD\SY
Sample : J5580-01RE
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
2-AVE-23RE

Quant Time: Oct 19 06:44:30 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	130340	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1922997	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	1650802	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	241652	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	12.40	95	216601	9.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	30.33%#
63) Toluene-d8	10.09	98	780247	10.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	36.27%#

Target Compounds

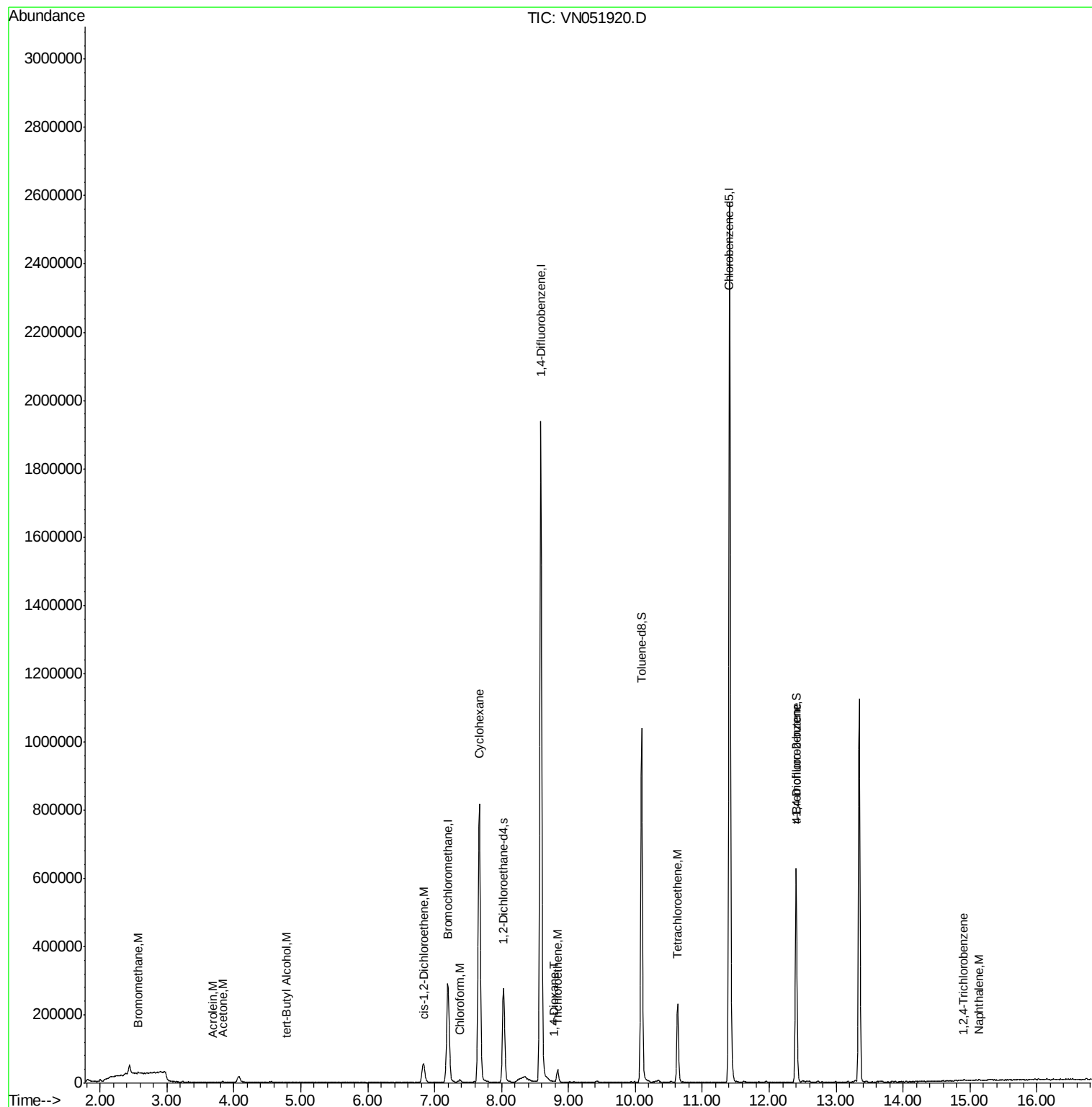
						Qvalue
5) Bromomethane	2.57	94	1973	0.279	ug/l	92
13) Acrolein	3.68	56	95	0.387	ug/l #	1
15) Acetone	3.83	58	624	1.516	ug/l #	5
22) cis-1,2-Dichloroethene	6.84	96	36034	4.477	ug/l #	72
23) tert-Butyl Alcohol	4.79	59	591	1.347	ug/l #	100
25) Chloroform	7.37	83	7087	0.539	ug/l #	82
26) Cyclohexane	7.67	56	12124	1.290	ug/l #	41
37) Trichloroethene	8.84	130	14093	0.619	ug/l	86
45) 1,4-Dioxane	8.79	88	168	0.931	ug/l #	1
61) Tetrachloroethene	10.63	164	54107	2.563	ug/l	92
77) t-1,4-Dichloro-2-butene	12.40	75	109497	22.060	ug/l #	12
89) 1,2,4-Trichlorobenzene	14.91	180	1021	7.765	ug/l #	79
91) Naphthalene	15.14	128	3084	8.589	ug/l #	91

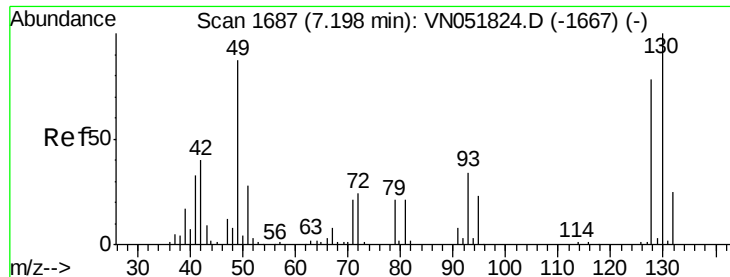
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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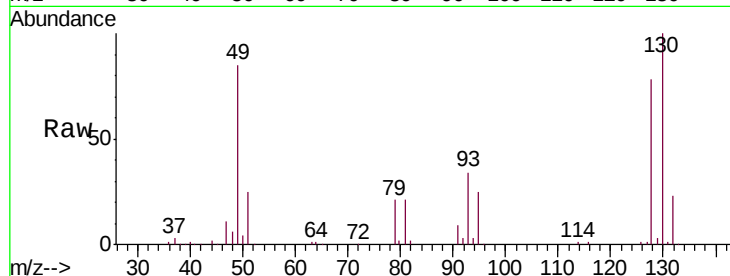




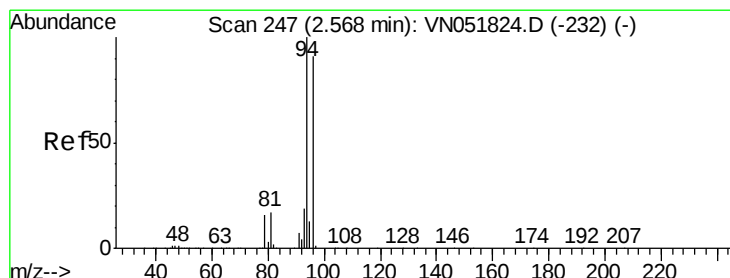
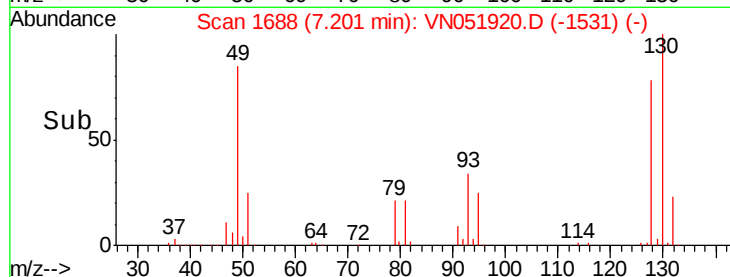
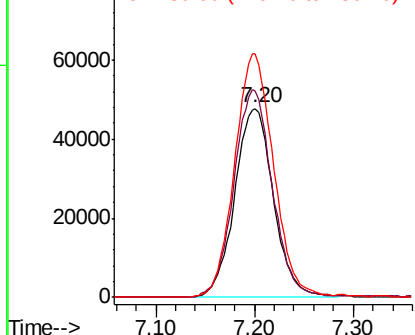
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

Instrument :
MSVOA_N
ClientSampled :
2-AVE-23RE

Tgt Ion:128 Resp: 130340
Ion Ratio Lower Upper
128 100
49 108.9 0.0 403.3
130 129.2 0.0 326.0

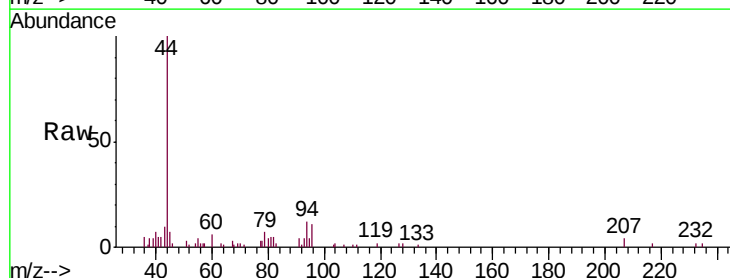


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

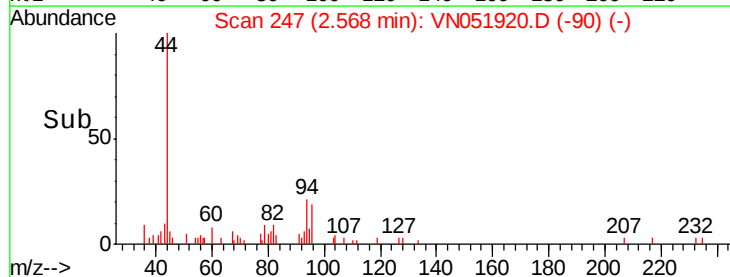
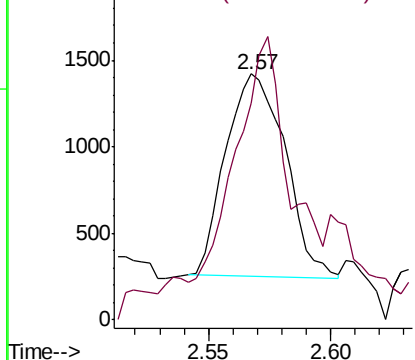


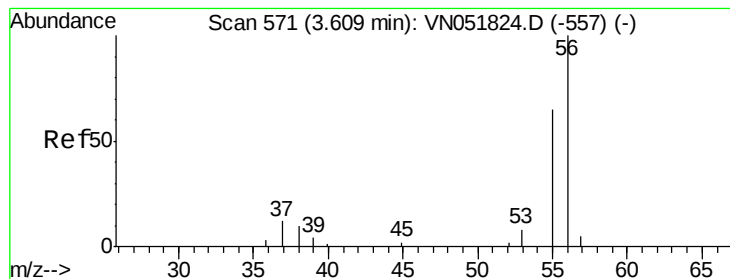
#5
Bromomethane
Concen: 0.279 ug/l
RT: 2.57 min Scan# 247
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

Tgt Ion: 94 Resp: 1973
Ion Ratio Lower Upper
94 100
96 89.8 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN
Ion 96.00 (95.70 to 96.70): VN





#13

Acrolein

Concen: 0.387 ug/l

RT: 3.68 min Scan# 592

Delta R.T. 0.07 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampled :

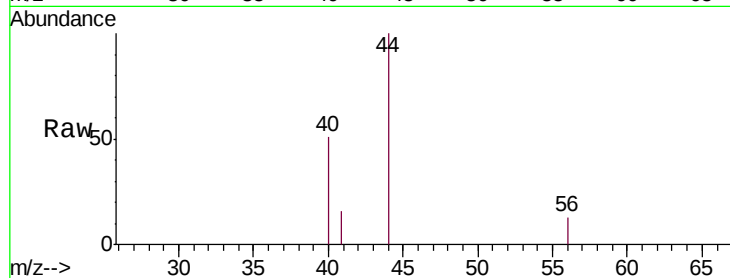
2-AVE-23RE

Tgt Ion: 56 Resp: 95

Ion Ratio Lower Upper

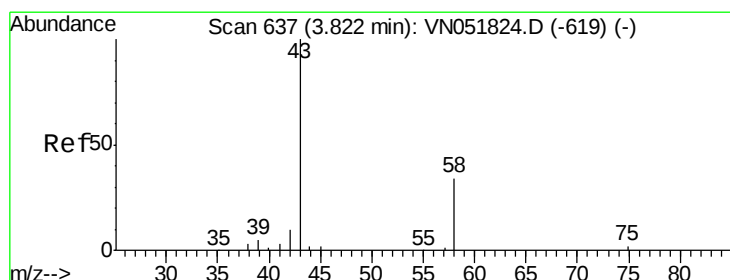
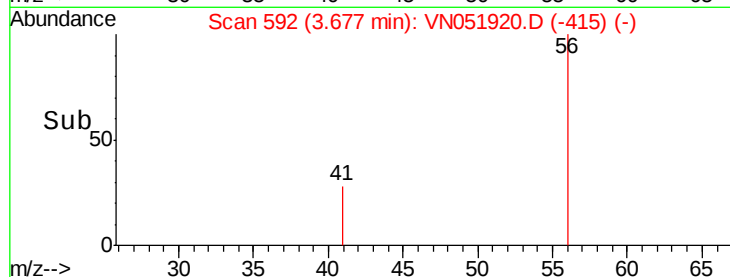
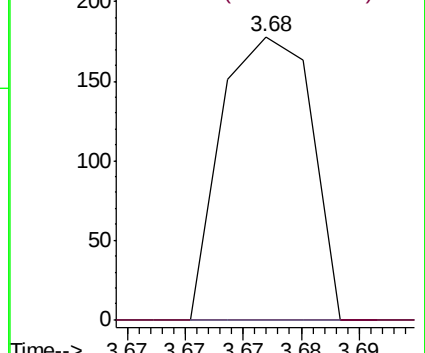
56 100

55 174.7 64.0 96.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 1.516 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN051920.D

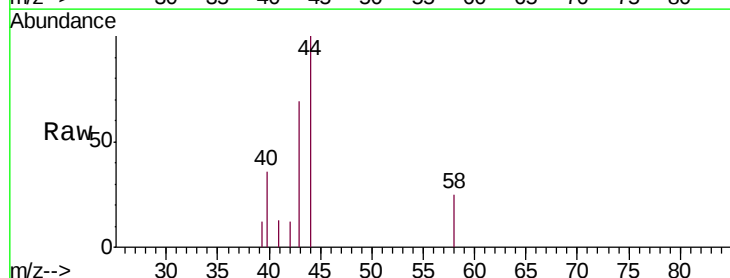
Acq: 18 Oct 2018 16:54

Tgt Ion: 58 Resp: 624

Ion Ratio Lower Upper

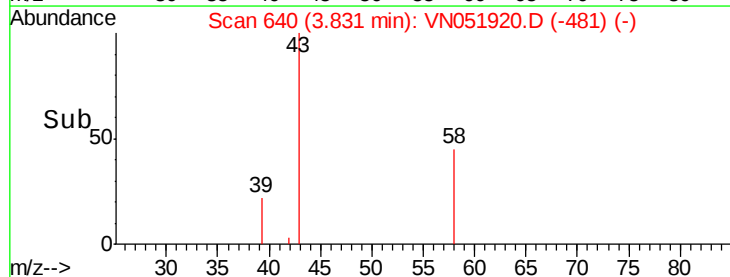
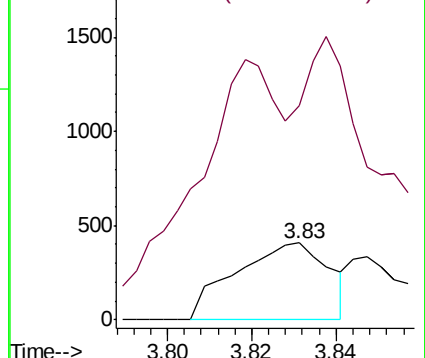
58 100

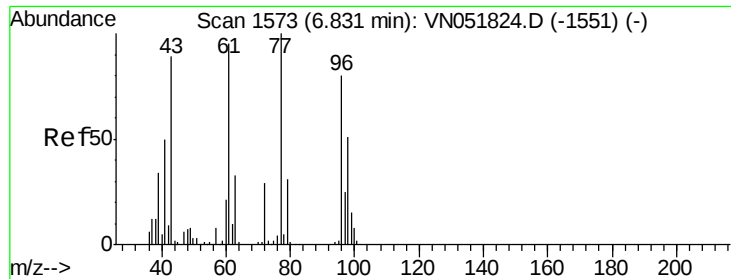
43 107.9 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#22

cis-1,2-Dichloroethene

Concen: 4.477 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampled :

2-AVE-23RE

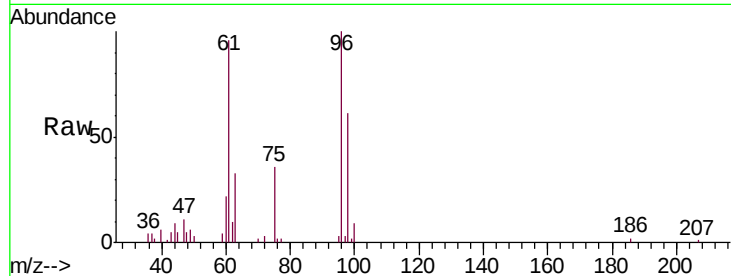
Tgt Ion: 96 Resp: 36034

Ion Ratio Lower Upper

96 100

61 104.0 124.5 186.7#

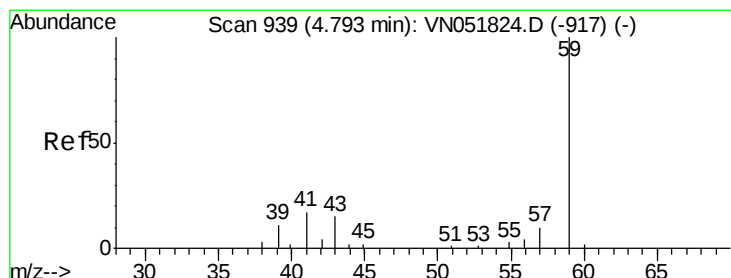
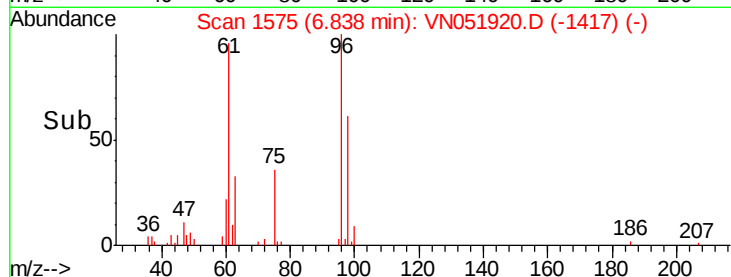
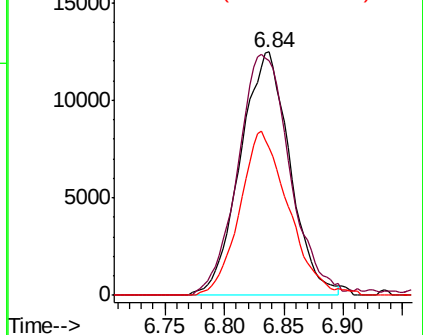
98 65.5 51.9 77.9



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

Ion 61.00 (60.70 to 61.70): VN051824.D (-1551) (-)

Ion 98.00 (97.70 to 98.70): VN051824.D (-1551) (-)



#23

tert-Butyl Alcohol

Concen: 1.347 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.00 min

Lab File: VN051920.D

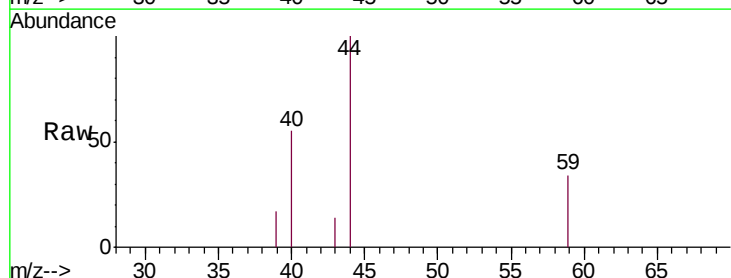
Acq: 18 Oct 2018 16:54

Tgt Ion: 59 Resp: 591

Ion Ratio Lower Upper

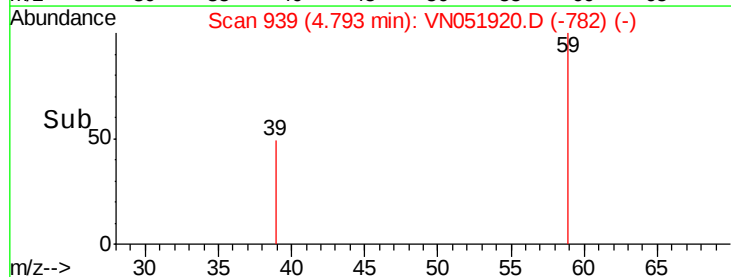
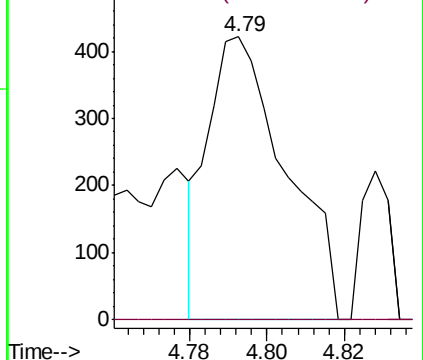
59 100

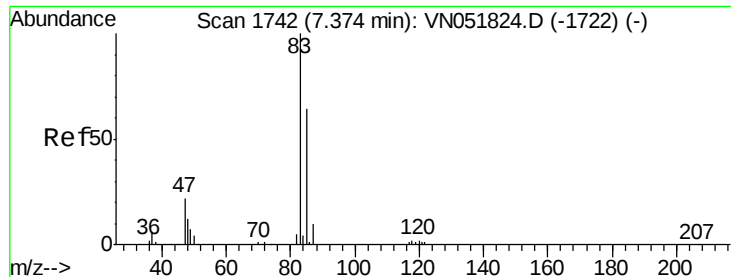
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN051824.D (-917) (-)

Ion 52.00 (51.70 to 52.70): VN051824.D (-917) (-)





#25

Chloroform

Concen: 0.539 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

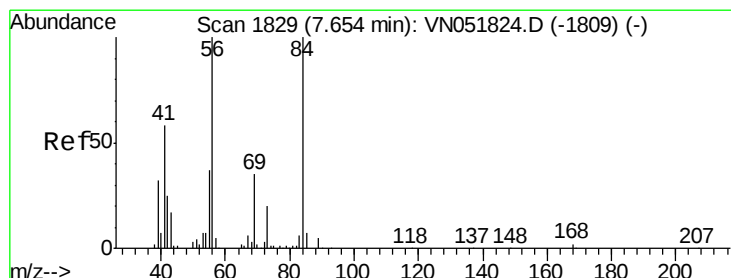
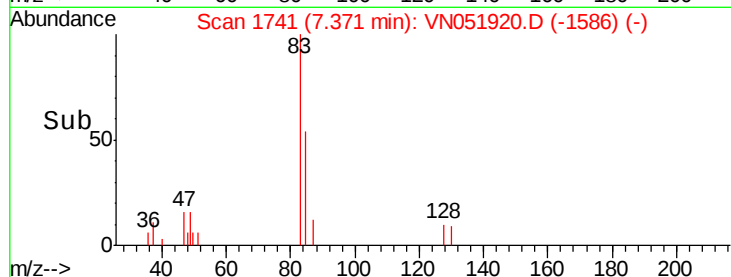
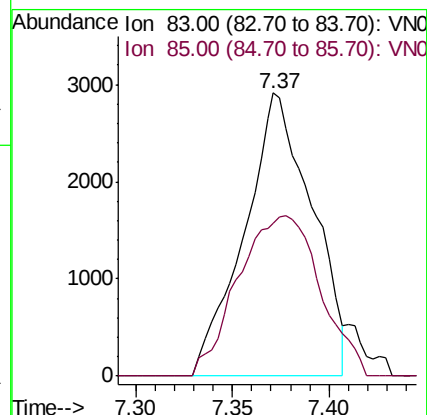
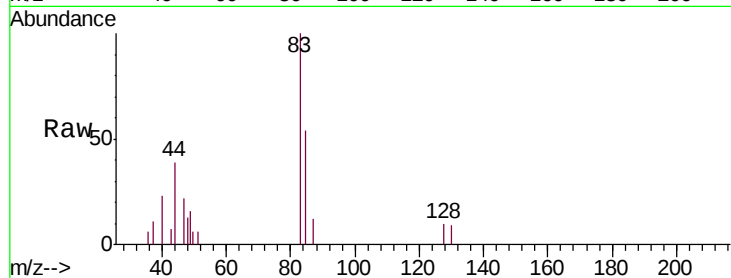
2-AVE-23RE

Tgt Ion: 83 Resp: 7087

Ion Ratio Lower Upper

83 100

85 54.1 54.6 82.0#



#26

Cyclohexane

Concen: 1.290 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

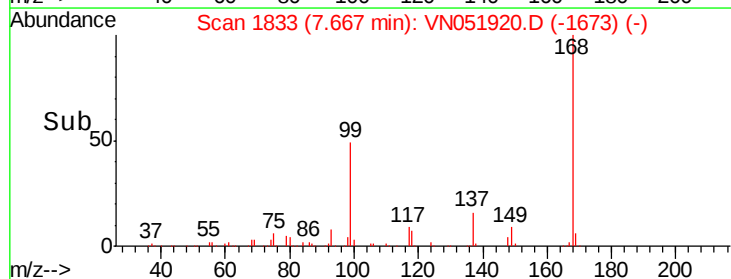
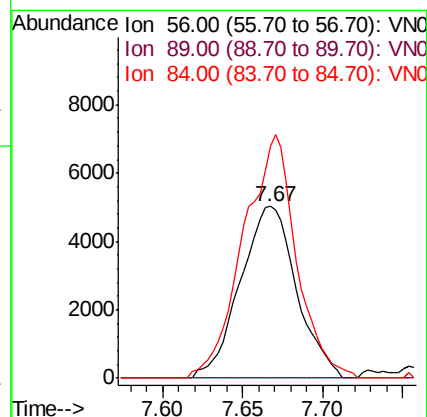
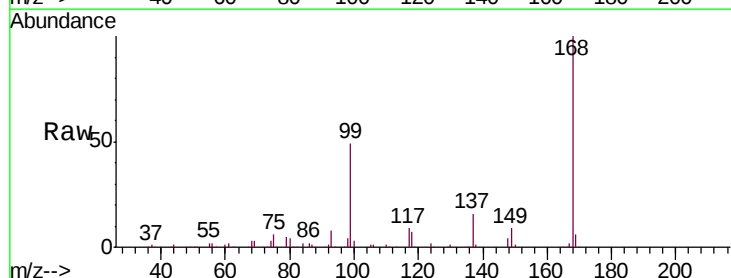
Tgt Ion: 56 Resp: 12124

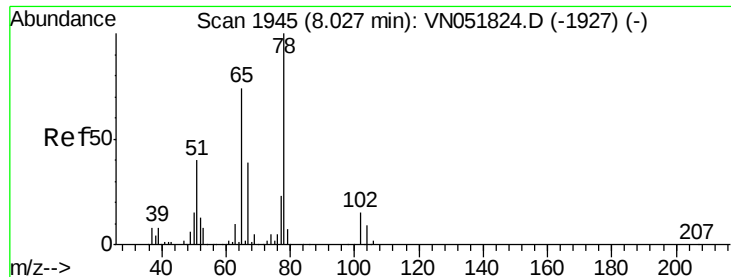
Ion Ratio Lower Upper

56 100

89 0.0 1.5 2.3#

84 134.0 64.2 96.4#





#27

1,2-Dichloroethane-d4

Concen: 1.290 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampled :

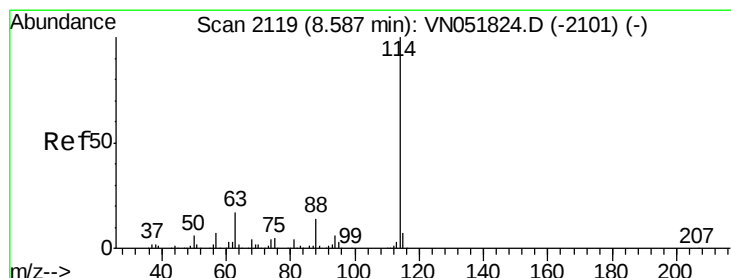
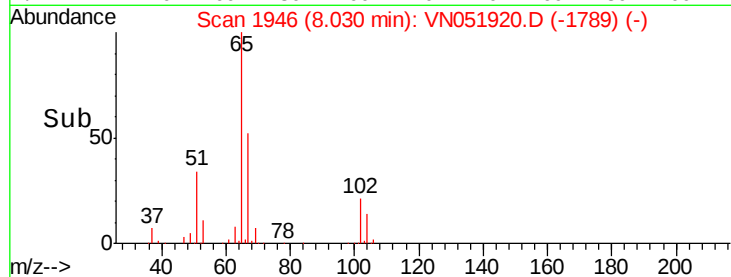
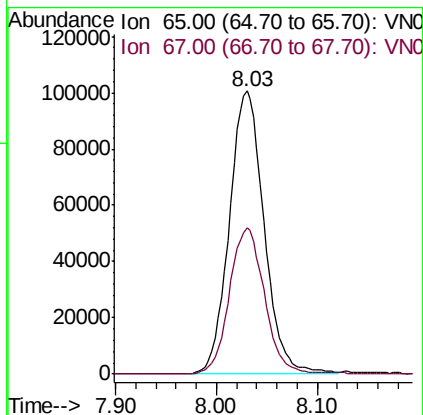
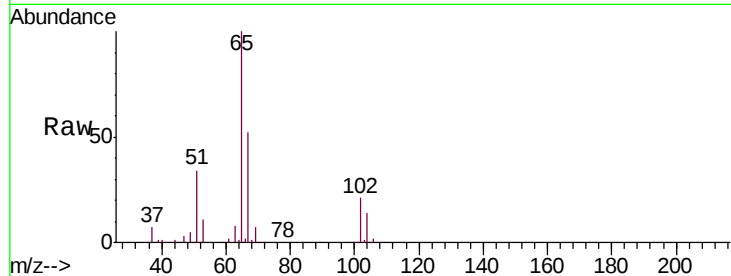
2-AVE-23RE

Tgt Ion: 65 Resp: 241652

Ion Ratio Lower Upper

65 100

67 51.8 41.8 62.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

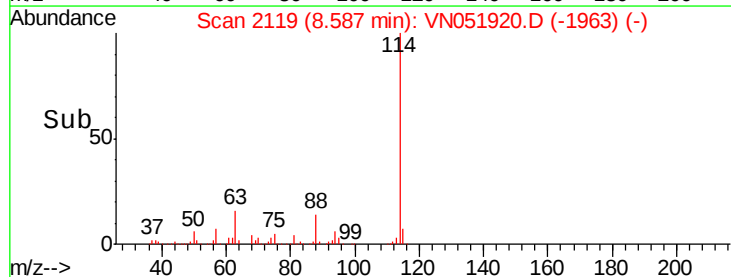
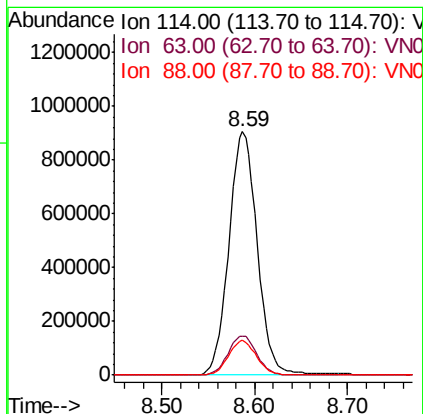
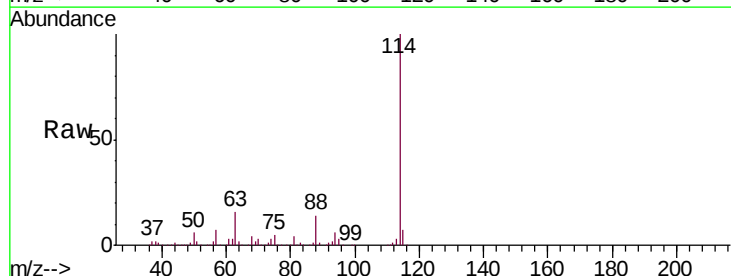
Tgt Ion: 114 Resp: 1922997

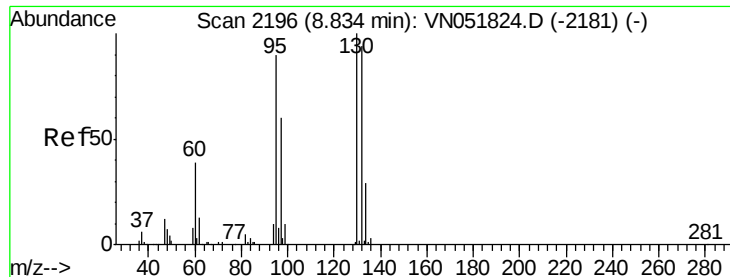
Ion Ratio Lower Upper

114 100

63 16.3 16.2 24.2

88 14.1 12.2 18.4





#37

Trichloroethene

Concen: 0.619 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

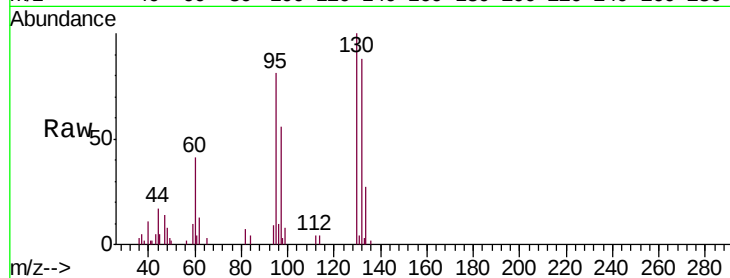
2-AVE-23RE

Tgt Ion:130 Resp: 14093

Ion Ratio Lower Upper

130 100

95 81.4 76.4 114.6



Abundance Ion 129.90 (129.60 to 130.60): VN051824.D (-2181) (-)

Ion 94.90 (94.60 to 95.60): VN051824.D (-2181) (-)

8.84

6000

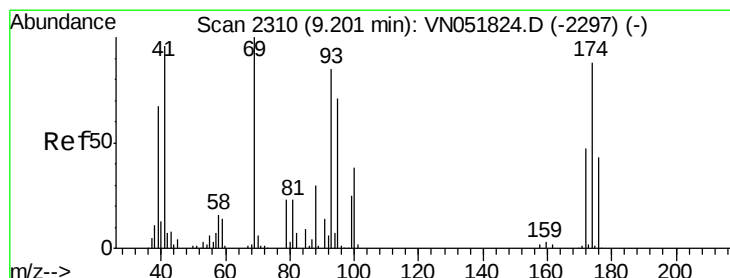
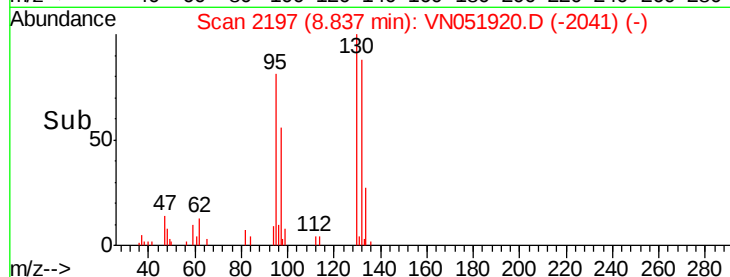
4000

2000

0

8.80 8.85 8.90

Time-->



#45

1,4-Dioxane

Concen: 0.931 ug/l

RT: 8.79 min Scan# 2182

Delta R.T. -0.41 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

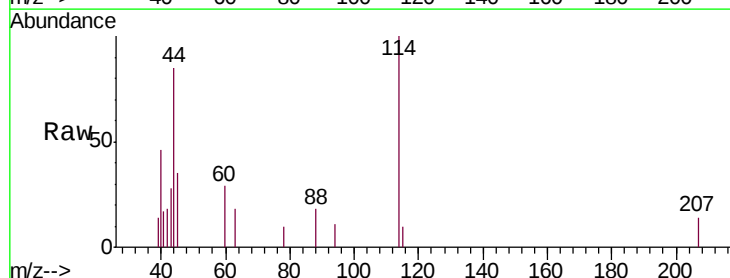
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

43 186.3 26.2 39.2#

58 0.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN051824.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN051824.D (-2297) (-)

8.79

600

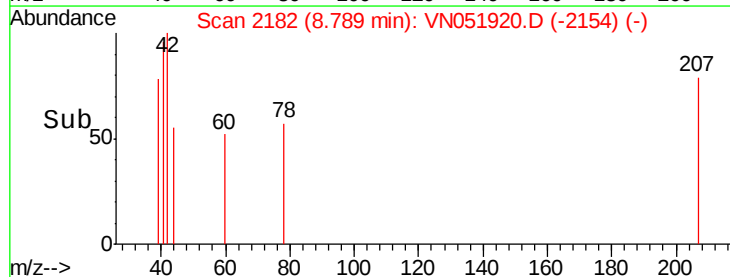
400

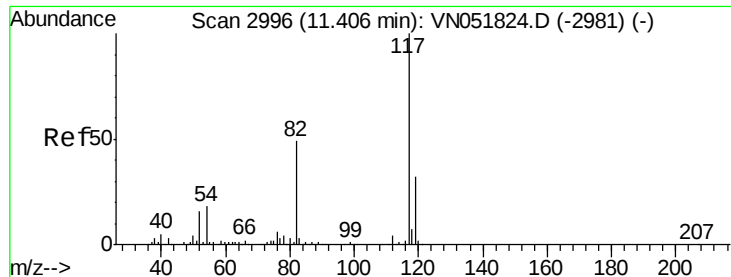
200

0

8.78 8.79 8.80

Time-->

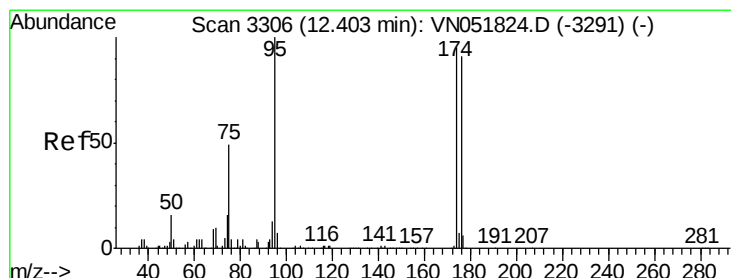
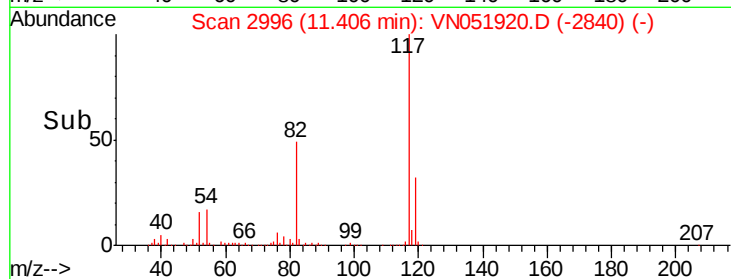
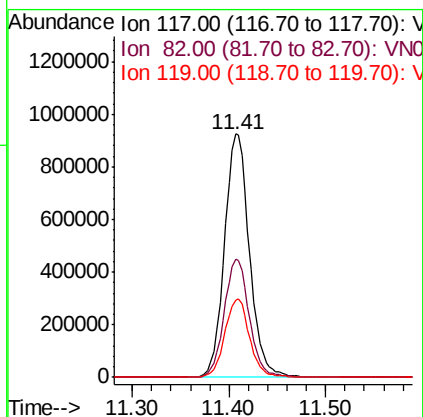
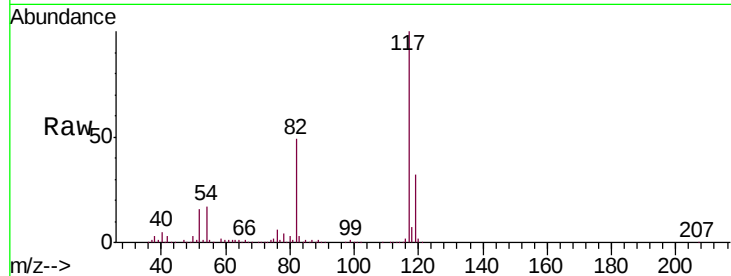




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

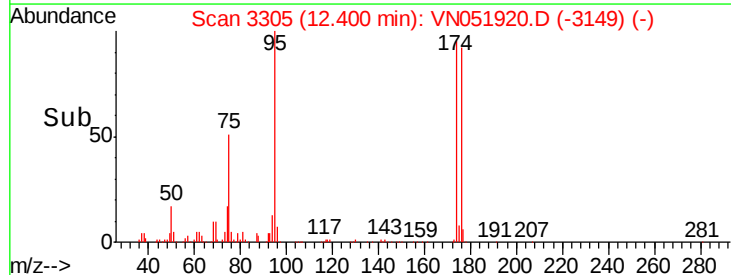
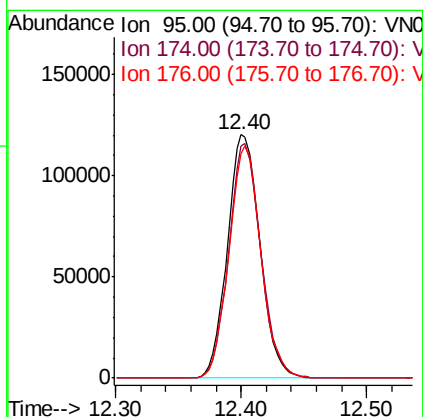
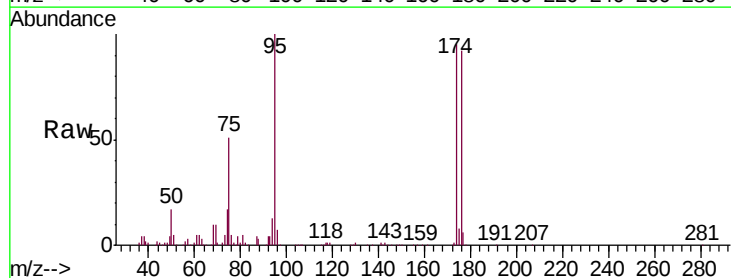
Instrument :
MSVOA_N
ClientSampled :
2-AVE-23RE

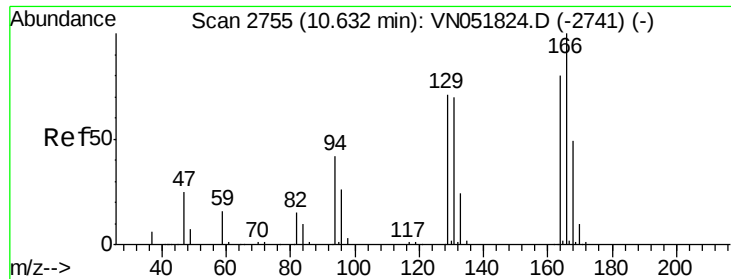
Tgt Ion: 117 Resp: 1650802
Ion Ratio Lower Upper
117 100
82 49.0 44.1 66.1
119 32.2 25.8 38.8



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

Tgt Ion: 95 Resp: 216601
Ion Ratio Lower Upper
95 100
174 94.6 73.5 110.3
176 93.4 70.2 105.2

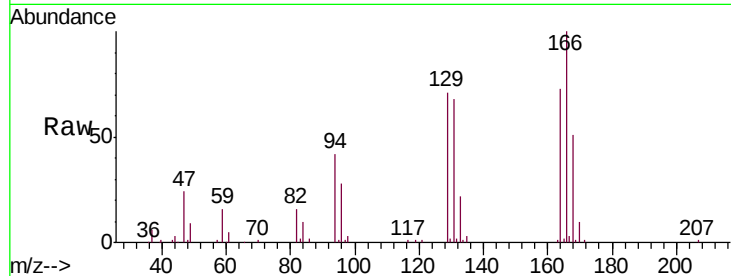




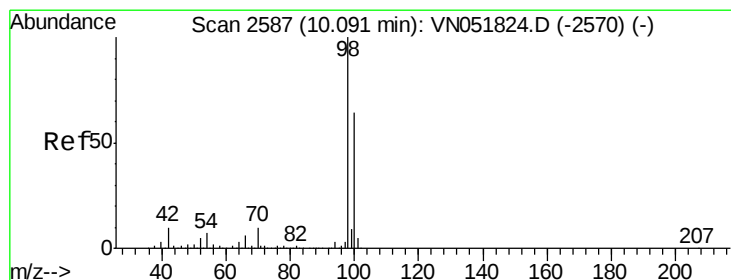
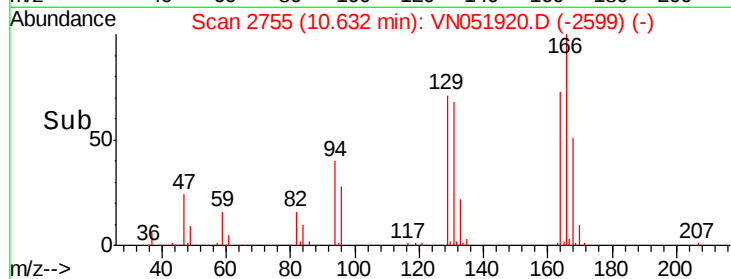
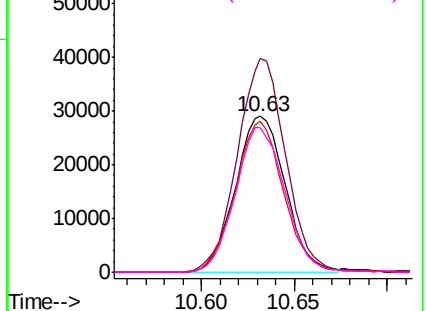
#61
Tetrachloroethene
Concen: 2.563 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

Instrument :
MSVOA_N
ClientSampled :
2-AVE-23RE

Tgt Ion:164 Resp: 54107
Ion Ratio Lower Upper
164 100
166 136.8 98.7 148.1
129 96.1 69.6 104.4
131 92.9 72.4 108.6

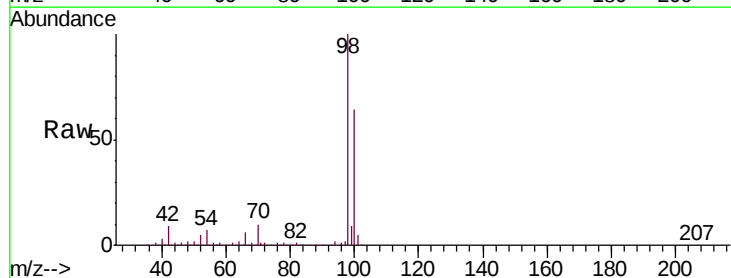


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

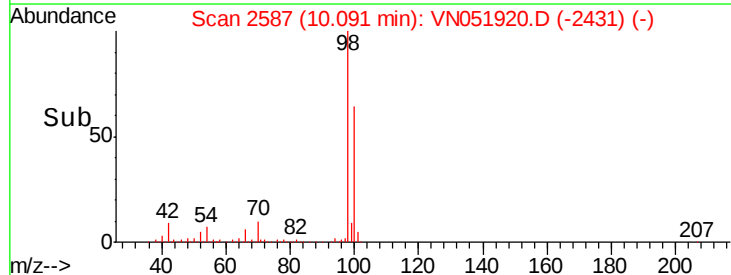
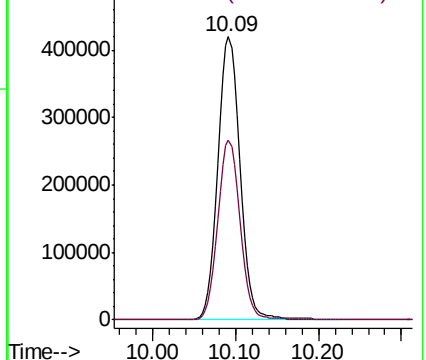


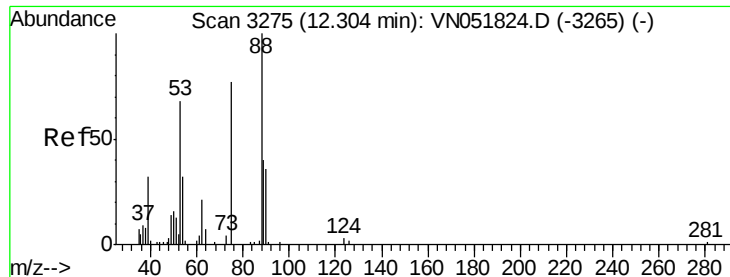
#63
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051920.D
Acq: 18 Oct 2018 16:54

Tgt Ion: 98 Resp: 780247
Ion Ratio Lower Upper
98 100
100 63.3 50.8 76.2



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





#77

t-1,4-Dichloro-2-butene

Concen: 22.060 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampled :

2-AVE-23RE

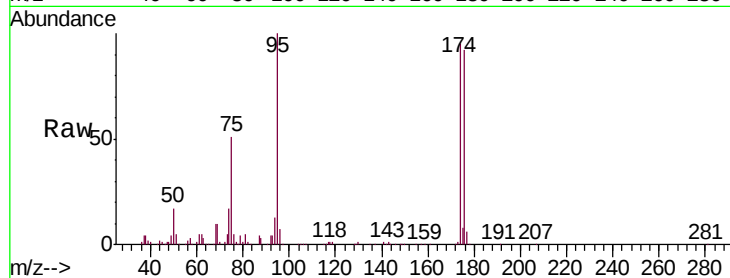
Tgt Ion: 75 Resp: 109497

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

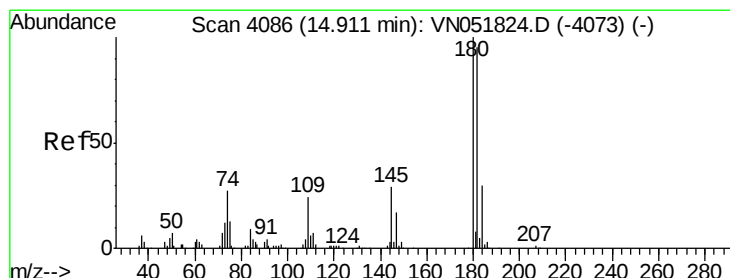
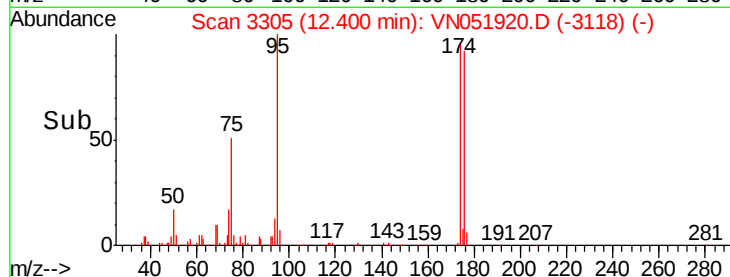
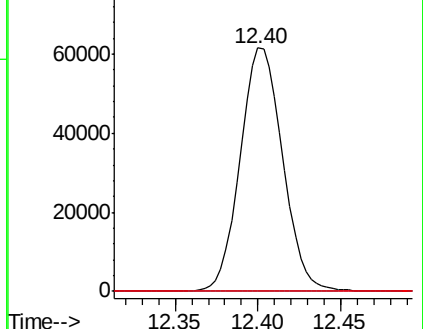
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051920.D (-3118) (-)

Ion 53.00 (52.70 to 53.70): VN051920.D (-3118) (-)

Ion 89.00 (88.70 to 89.70): VN051920.D (-3118) (-)



#89

1,2,4-Trichlorobenzene

Concen: 7.765 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

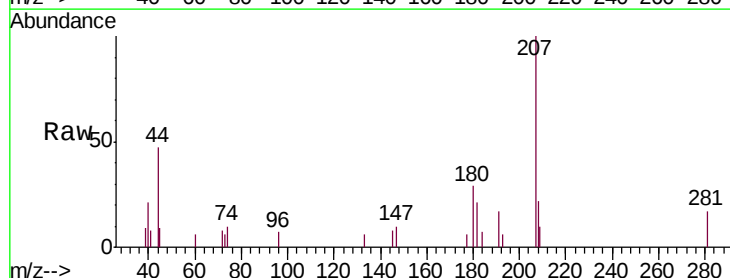
Tgt Ion: 180 Resp: 1021

Ion Ratio Lower Upper

180 100

182 71.5 77.7 116.5#

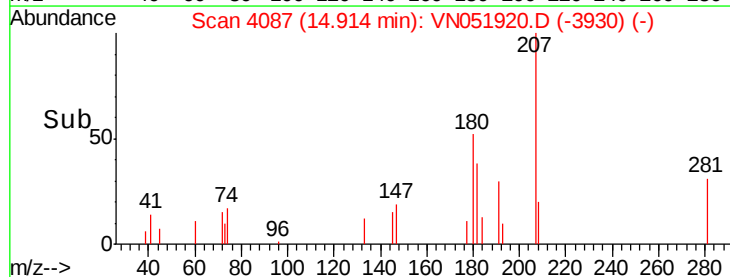
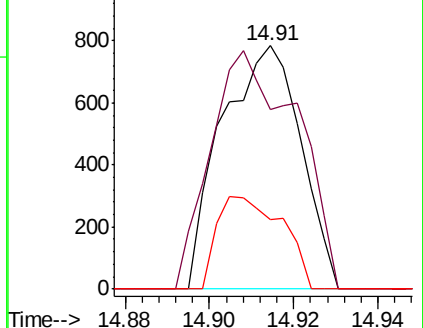
145 31.5 23.4 35.2

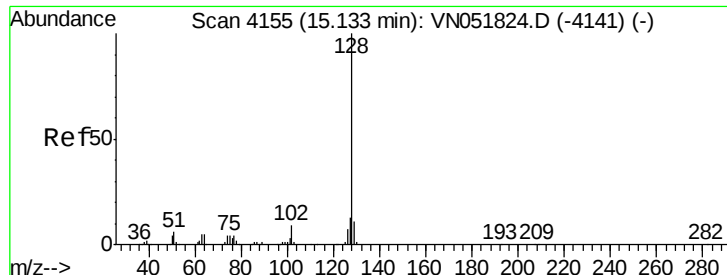


Abundance Ion 180.00 (179.70 to 180.70): VN051920.D (-3930) (-)

Ion 182.00 (181.70 to 182.70): VN051920.D (-3930) (-)

Ion 145.00 (144.70 to 145.70): VN051920.D (-3930) (-)





#91

Naphthalene

Concen: 8.589 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051920.D

Acq: 18 Oct 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

2-AVE-23RE

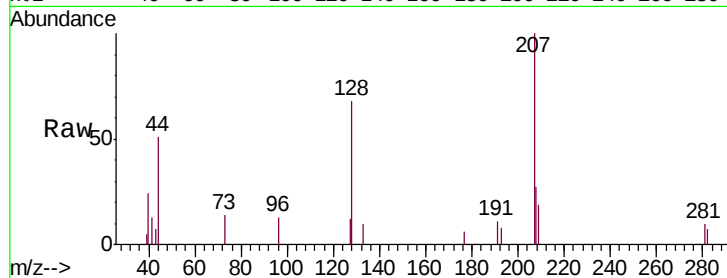
Tgt Ion:128 Resp: 3084

Ion Ratio Lower Upper

128 100

127 13.7 10.1 15.1

129 3.9 8.4 12.6



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

