

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051954.D
 Acq On : 19 Oct 2018 18:01
 Operator : MD\SY
 Sample : J5538-23 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 BS01

Quant Time: Oct 19 23:10:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 05:11:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	962196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1414910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1312171	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	648295	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	540420	60.58	ug/l	0.00
Spiked Amount			Recovery	=	121.16%	
35) Dibromofluoromethane	7.59	113	1834	0.20	ug/l	0.00
Spiked Amount			Recovery	=	0.40%	
50) Toluene-d8	10.09	98	1956104	59.76	ug/l	0.00
Spiked Amount			Recovery	=	119.52%	
62) 4-Bromofluorobenzene	12.40	95	631465	57.79	ug/l	0.00
Spiked Amount			Recovery	=	115.58%	

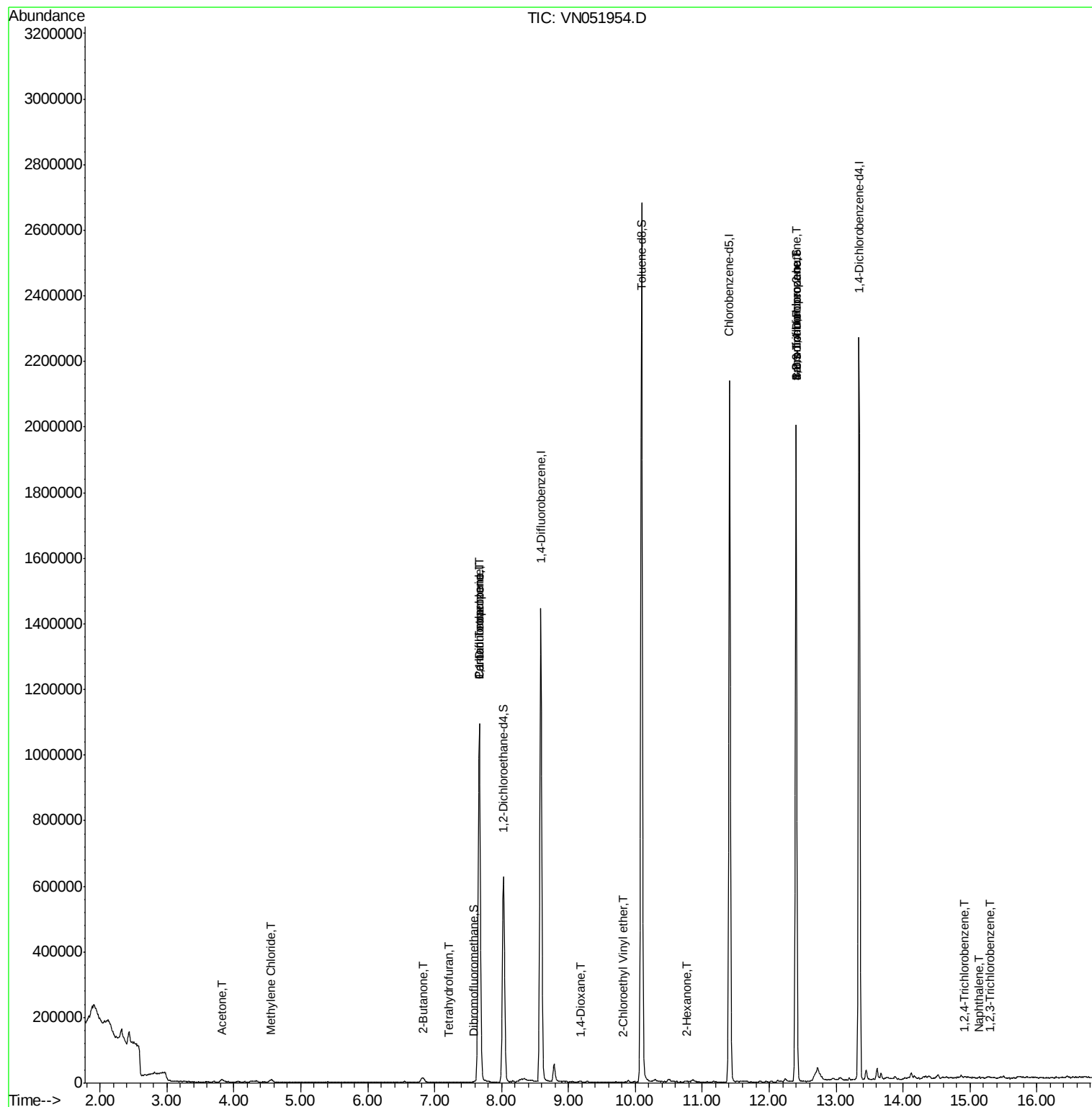
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	488	Below Cal		99
13) Acrolein	3.62	56	192	Below Cal	#	14
16) Acetone	3.81	43	7405	4.688	ug/l	92
18) Methyl Acetate	4.34	43	2641	Below Cal	#	68
20) Methylene Chloride	4.55	84	3279	0.408	ug/l	89
25) 2-Butanone	6.83	43	4116	1.823	ug/l	# 88
29) Tetrahydrofuran	7.22	42	294	0.213	ug/l	# 48
31) Cyclohexane	7.67	56	15903	Below Cal	#	21
36) 1,1-Dichloropropene	7.67	75	59367	5.406	ug/l	# 48
37) Ethyl Acetate	6.96	43	367	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	87023	6.729	ug/l	# 15
43) Isopropyl Acetate	8.17	43	3820	Below Cal	#	81
49) 1,4-Dioxane	9.19	88	67	0.796	ug/l	# 1
58) 2-Chloroethyl Vinyl ether	9.81	63	34	2.759	ug/l	# 40
59) 2-Hexanone	10.75	43	1111	0.324	ug/l	96
71) Bromoform	12.40	173	5481	3.932	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	321711	40.828	ug/l	# 100
79) 2-Chlorotoluene	12.67	91	275	Below Cal	#	36
81) trans-1,4-Dichloro-2-buten	12.40	75	321711	134.202	ug/l	# 14
93) 1,2,4-Trichlorobenzene	14.91	180	304	4.088	ug/l	# 40
95) Naphthalene	15.14	128	2855	4.185	ug/l	# 77
96) 1,2,3-Trichlorobenzene	15.30	180	125	2.925	ug/l	# 30

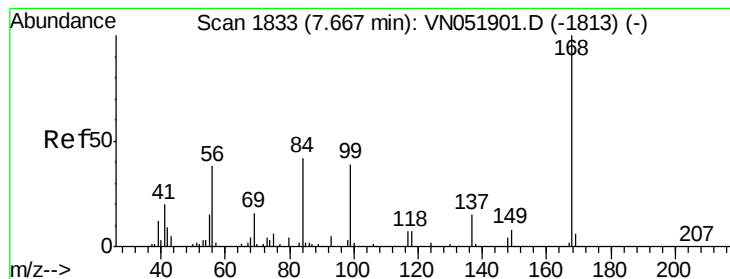
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

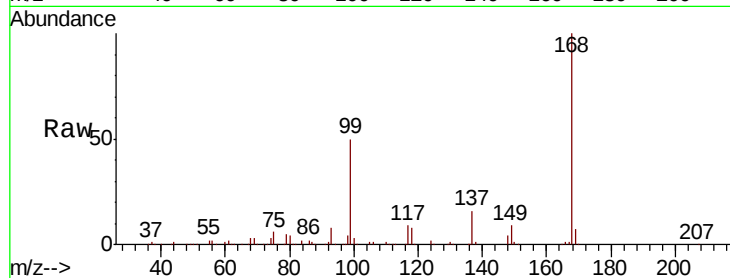
BS01

Tot Ion:168 Resp: 962196

Ion Ratio Lower Upper

168 100

99 50.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

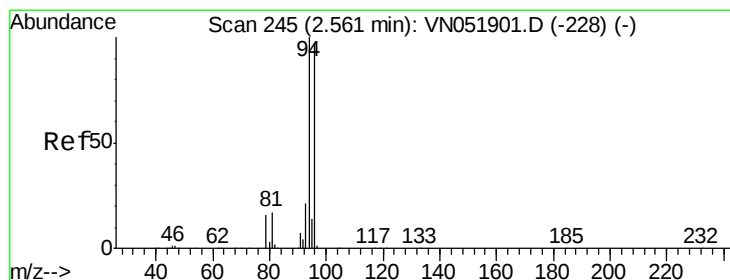
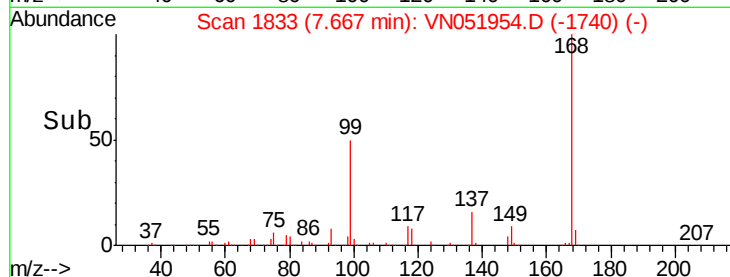
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051954.D

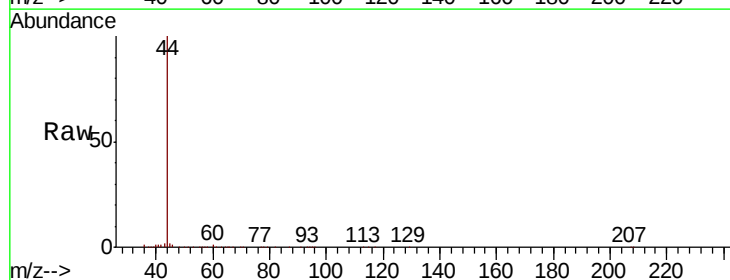
Acq: 19 Oct 2018 18:01

Tgt Ion: 94 Resp: 488

Ion Ratio Lower Upper

94 100

96 98.2 77.5 116.3



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

500

400

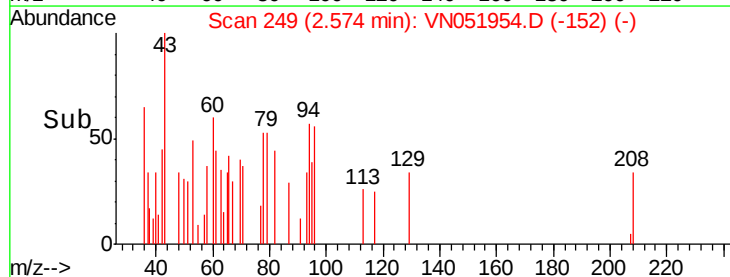
300

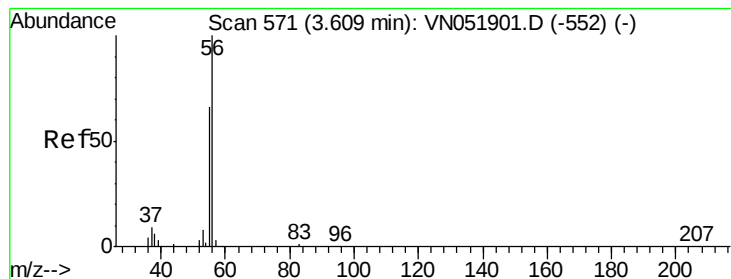
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

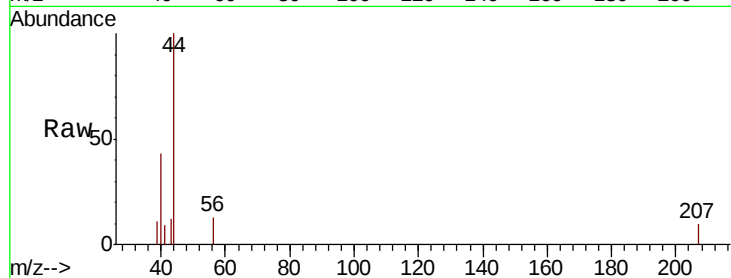
BS01

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

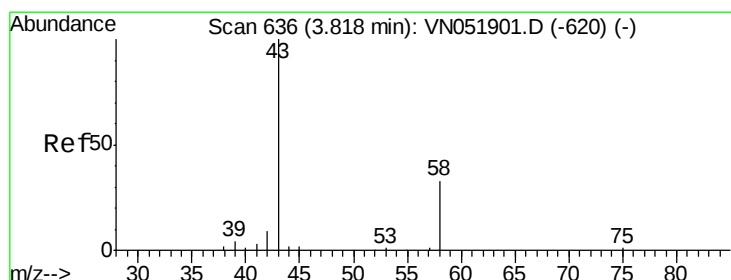
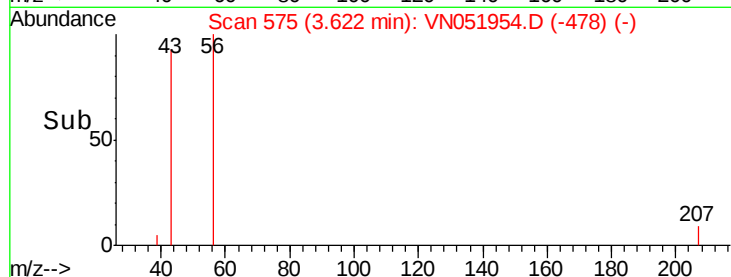
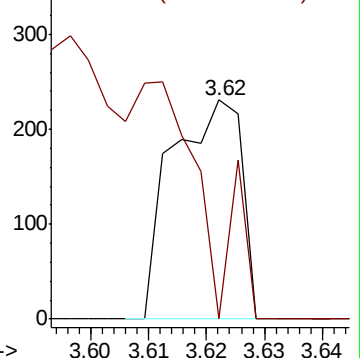
56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 4.688 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN051954.D

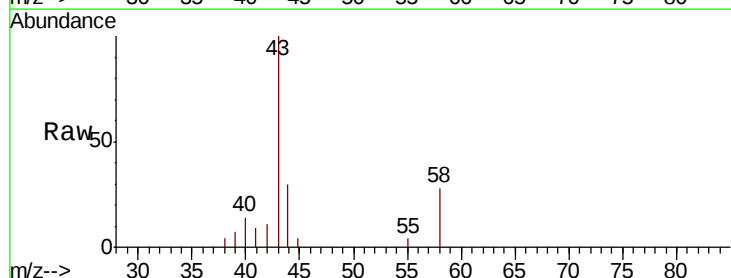
Acq: 19 Oct 2018 18:01

Tgt Ion: 43 Resp: 7405

Ion Ratio Lower Upper

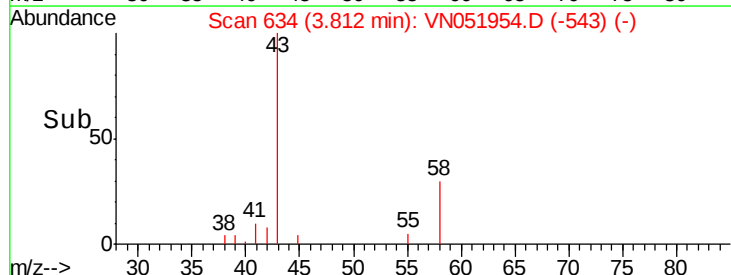
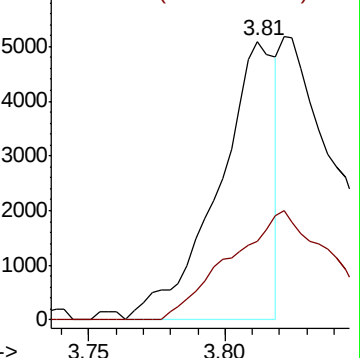
43 100

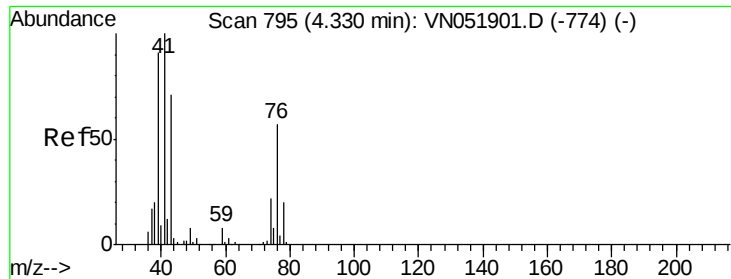
58 28.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

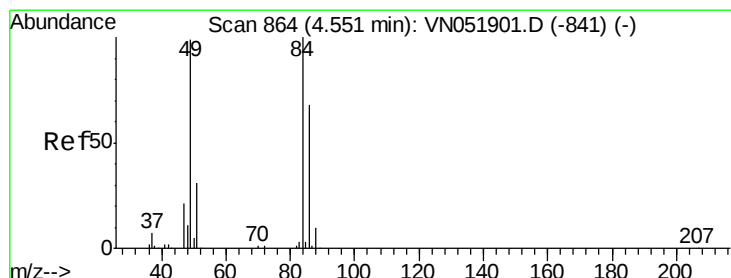
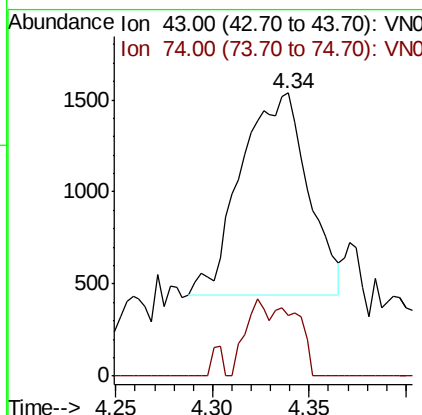
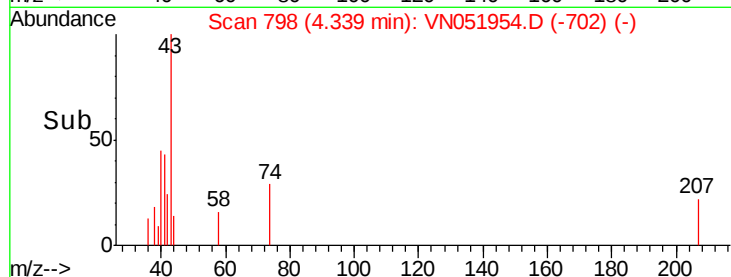
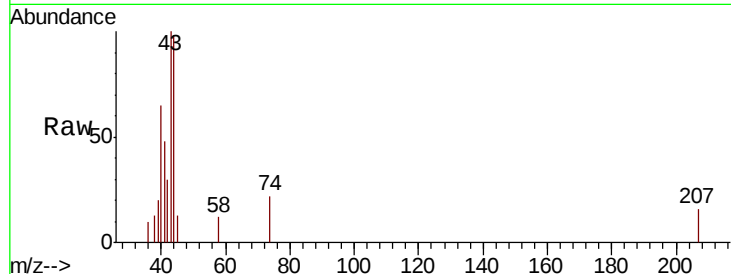




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

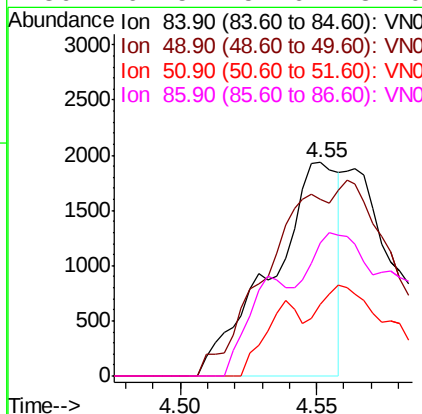
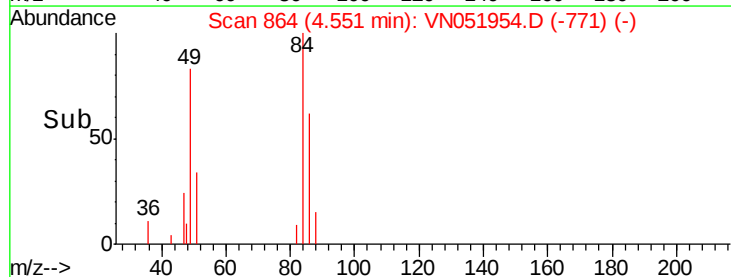
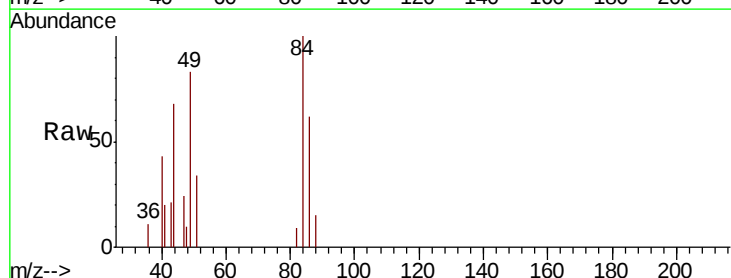
Instrument :
MSVOA_N
ClientSampleId :
BS01

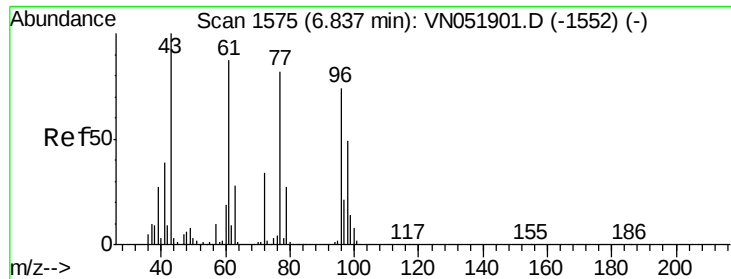
Tot Ion: 43 Resp: 2641
Ion Ratio Lower Upper
43 100
74 13.4 24.9 37.3#



#20
Methylene Chloride
Concen: 0.408 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

Tgt Ion: 84 Resp: 3279
Ion Ratio Lower Upper
84 100
49 82.5 79.0 118.4
51 33.8 24.9 37.3
86 62.5 54.6 82.0





#25

2-Butanone

Concen: 1.823 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

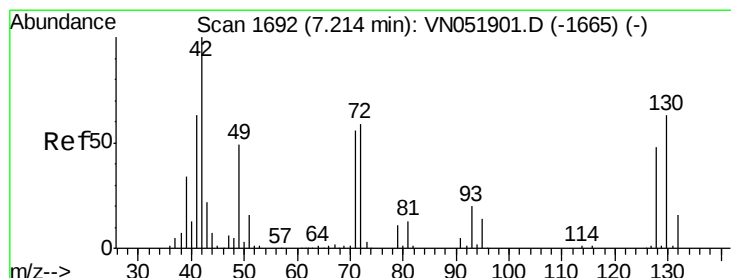
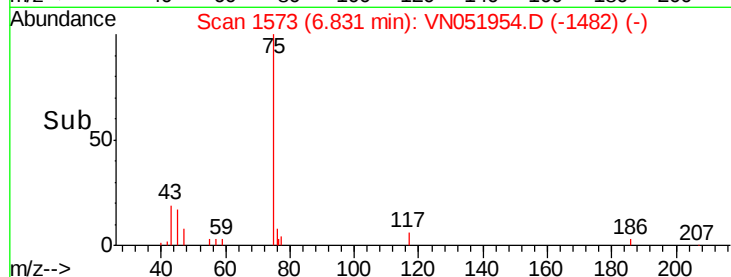
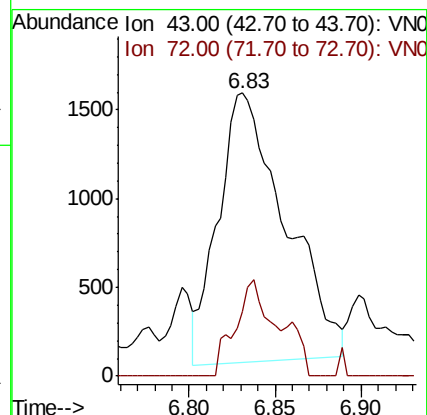
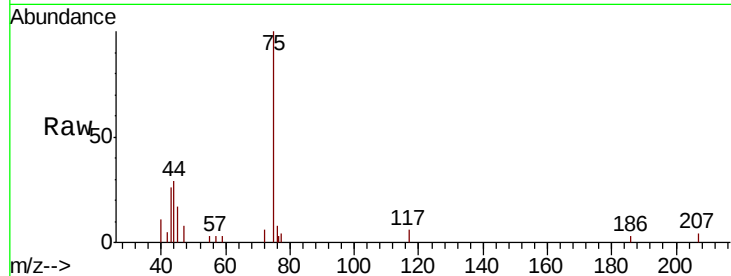
BS01

Tot Ion: 43 Resp: 4116

Ion Ratio Lower Upper

43 100

72 27.0 27.0 40.6#



#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

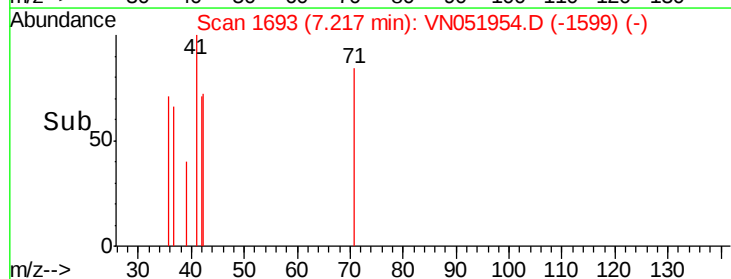
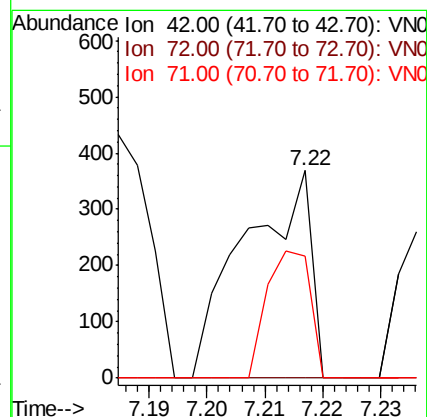
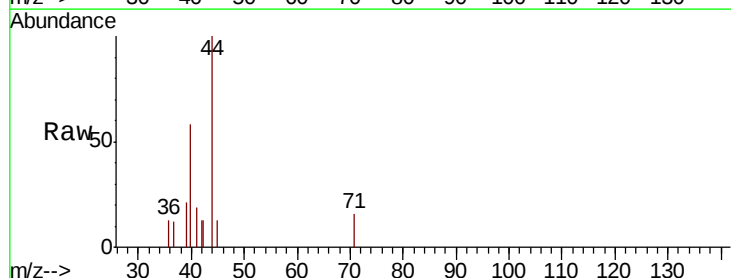
Tgt Ion: 42 Resp: 294

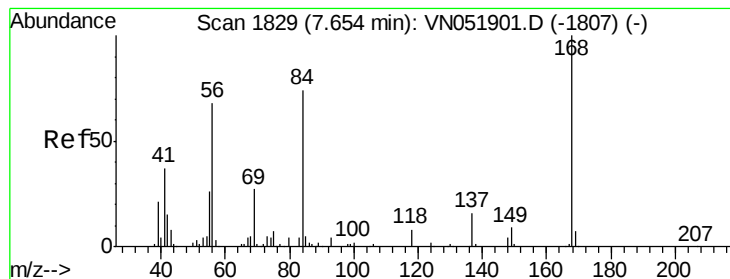
Ion Ratio Lower Upper

42 100

72 0.0 47.7 71.5#

71 40.1 45.4 68.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :
MSVOA_N
ClientSampleId :
BS01

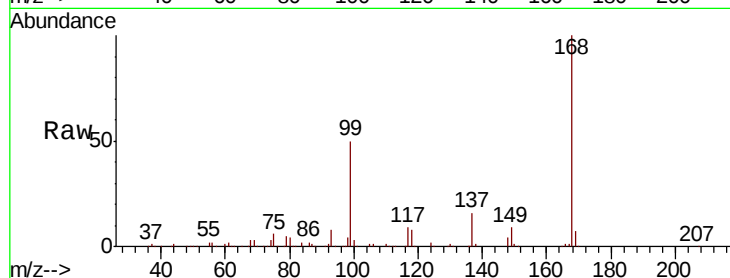
Tot Ion: 56 Resp: 15903

Ion Ratio Lower Upper

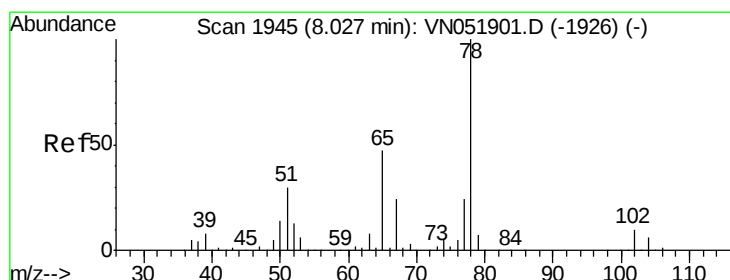
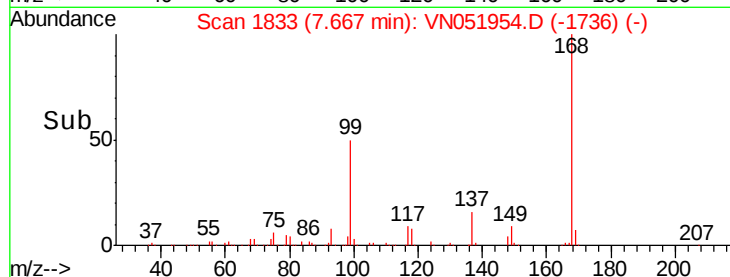
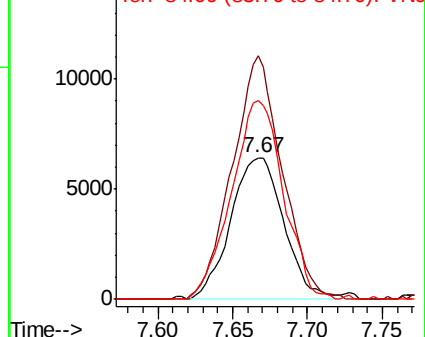
56 100

69 169.3 31.2 46.8#

84 140.6 86.6 130.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051954.D

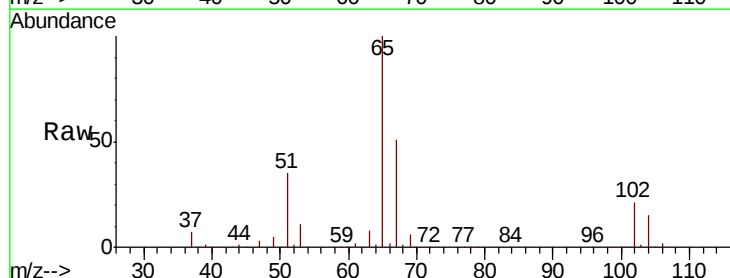
Acq: 19 Oct 2018 18:01

Tgt Ion: 65 Resp: 540420

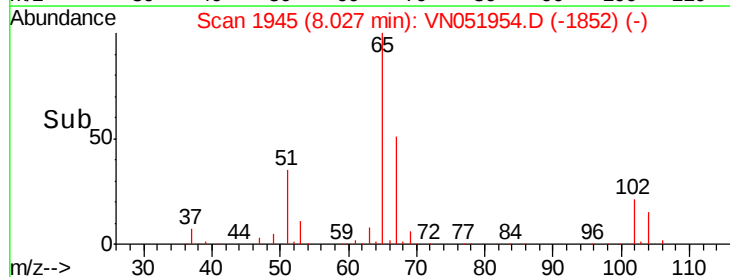
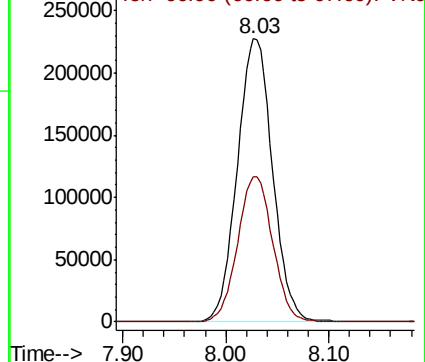
Ion Ratio Lower Upper

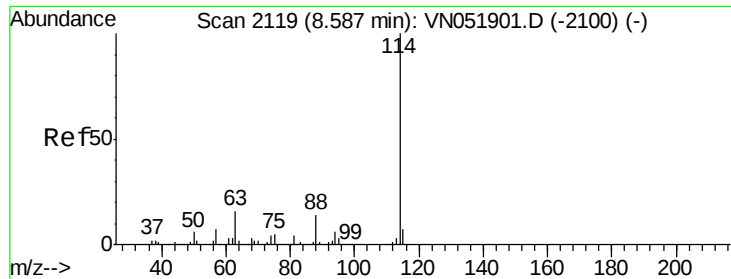
65 100

67 51.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

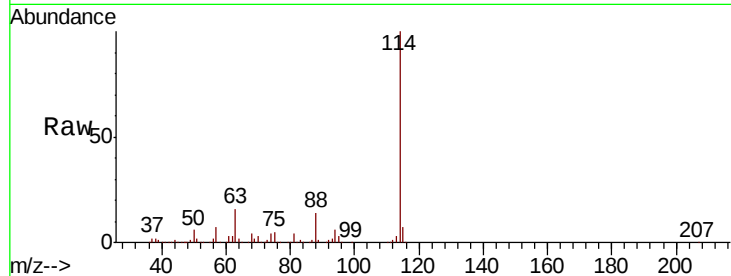




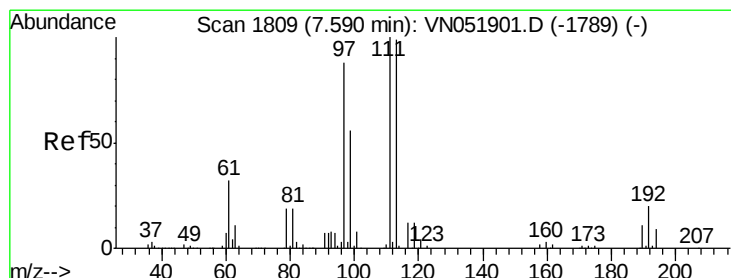
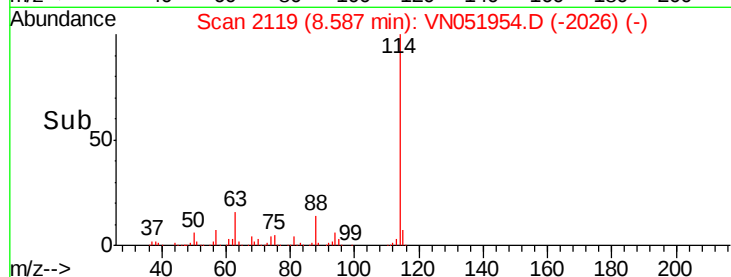
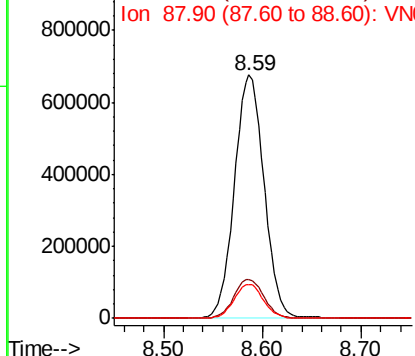
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051954.D
 Acq: 19 Oct 2018 18:01

Instrument :
 MSVOA_N
 ClientSampleId :
 BS01

Tot Ion:114 Resp: 1414910
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.8
 88 14.1 0.0 28.0

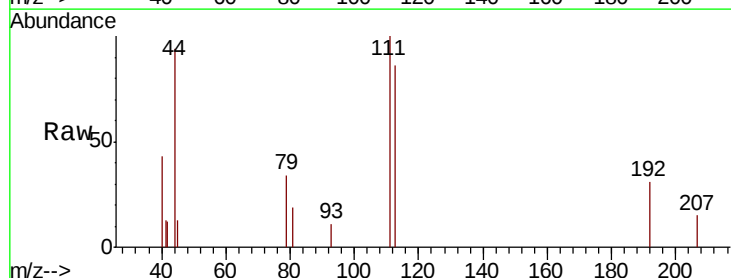


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

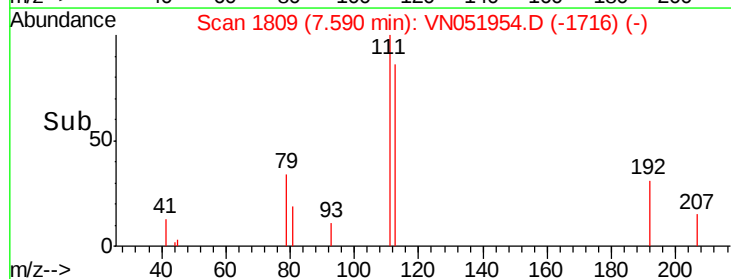
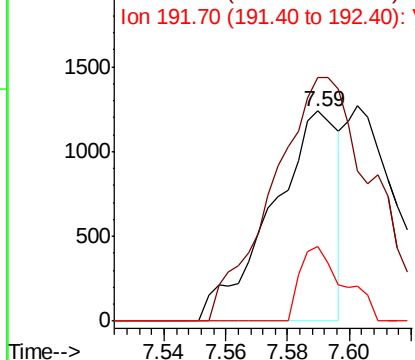


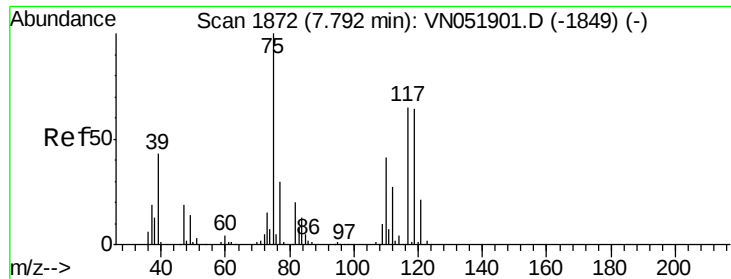
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051954.D
 Acq: 19 Oct 2018 18:01

Tgt Ion:113 Resp: 1834
 Ion Ratio Lower Upper
 113 100
 111 181.4 82.6 123.8#
 192 23.5 17.3 25.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.406 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

BS01

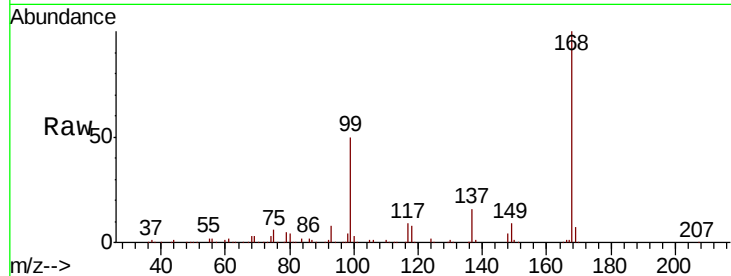
Tot Ion: 75 Resp: 59367

Ion Ratio Lower Upper

75 100

110 10.8 21.0 63.0#

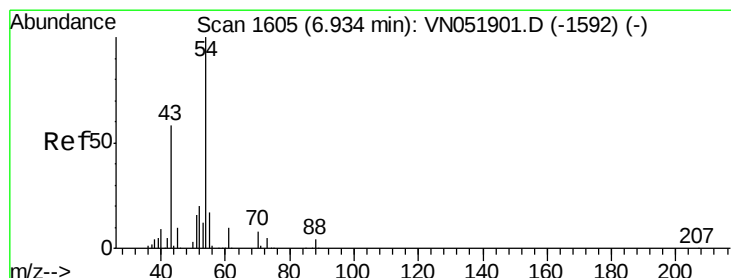
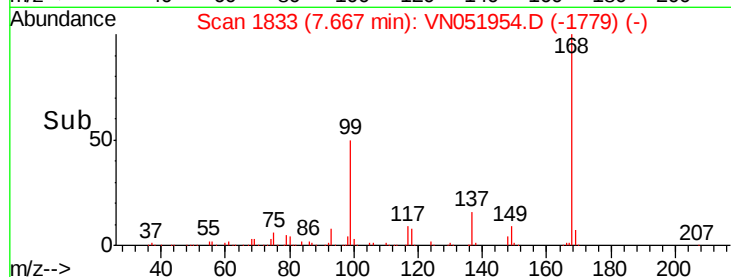
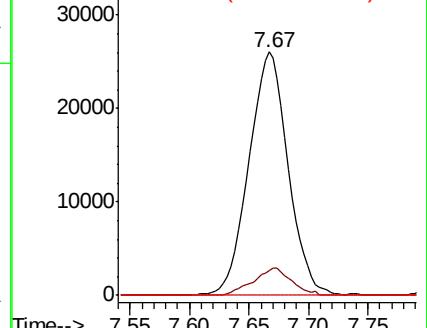
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN051901.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN051901.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN051901.D (-1849) (-)



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.96 min Scan# 1613

Delta R.T. 0.03 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

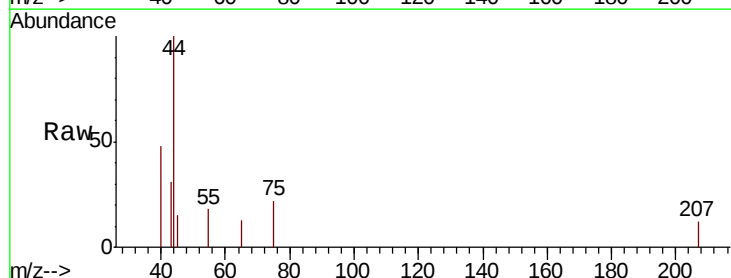
Tgt Ion: 43 Resp: 367

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

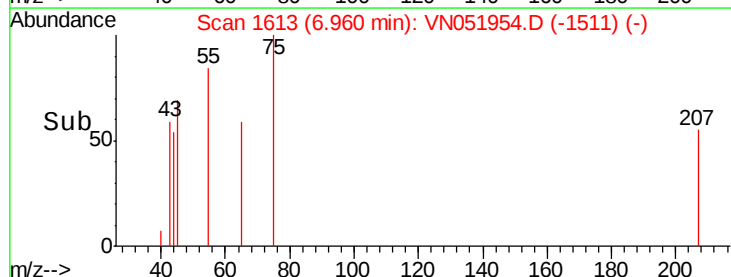
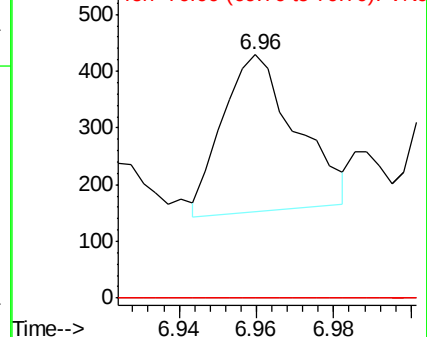
70 0.0 10.4 15.6#

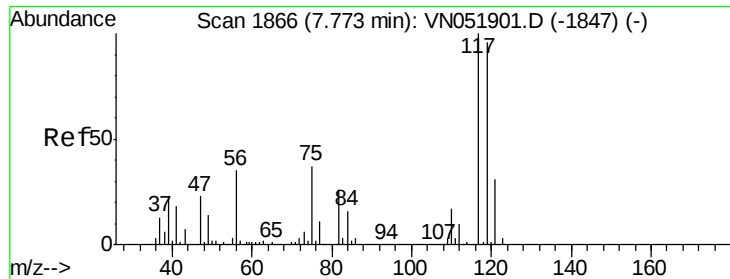


Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051901.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051901.D (-1592) (-)





#38

Carbon Tetrachloride

Concen: 6.729 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampleId :

BS01

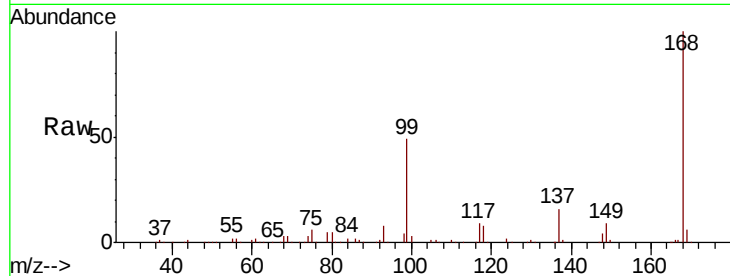
Tot Ion:117 Resp: 87023

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.6#

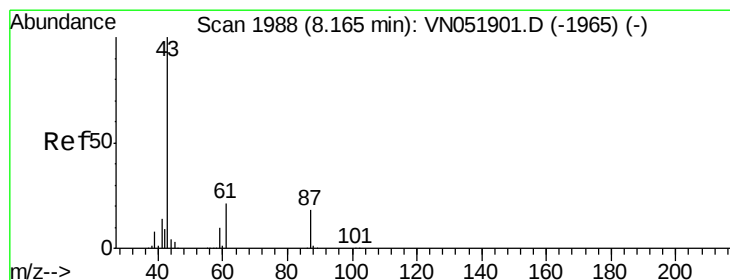
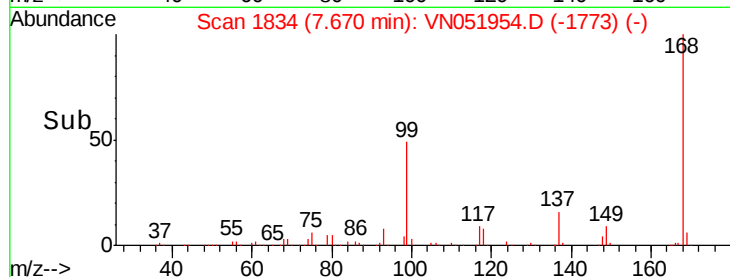
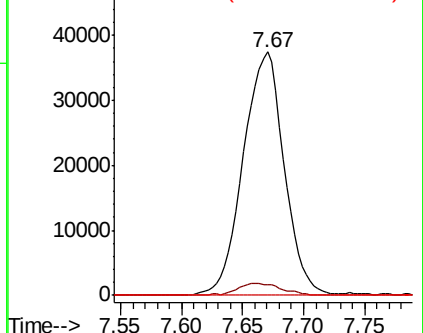
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

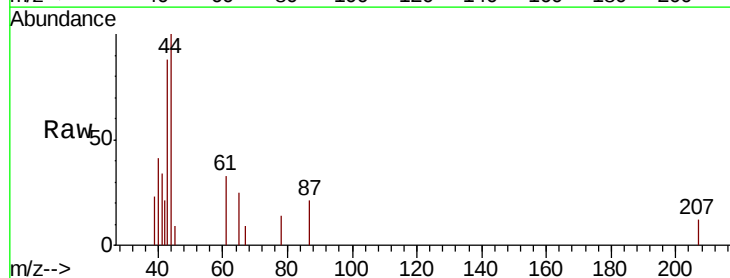
Tgt Ion: 43 Resp: 3820

Ion Ratio Lower Upper

43 100

61 22.1 24.9 37.3#

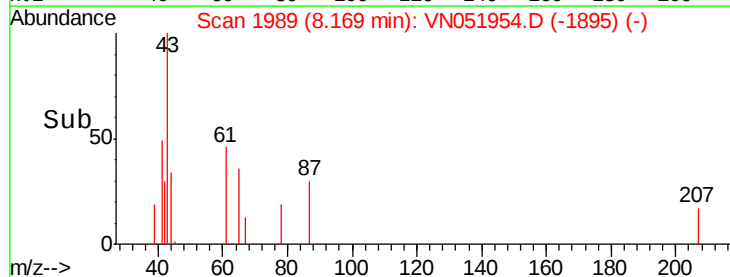
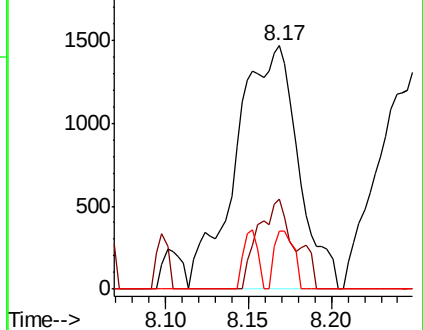
87 7.5 14.6 22.0#

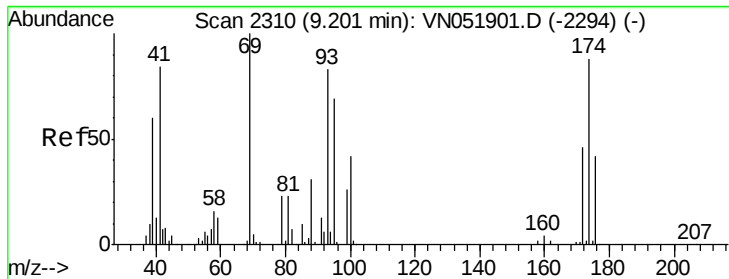


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

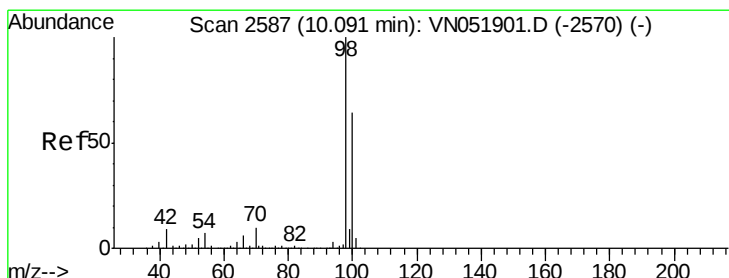
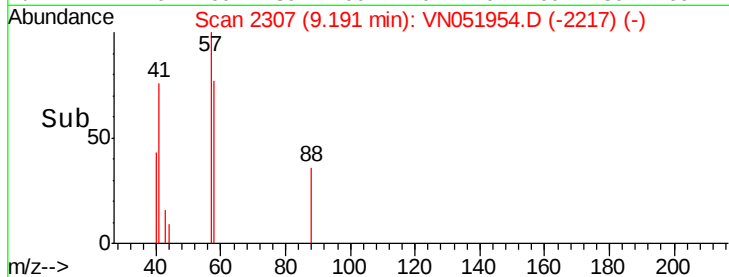
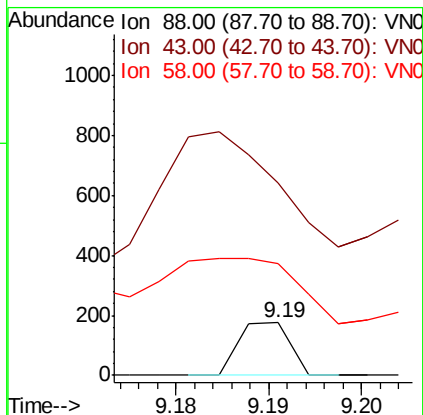
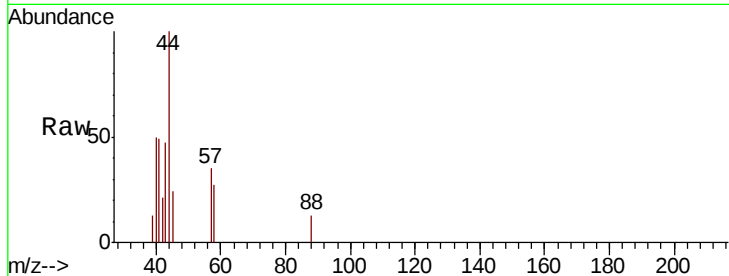




#49
1,4-Dioxane
Concen: 0.796 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

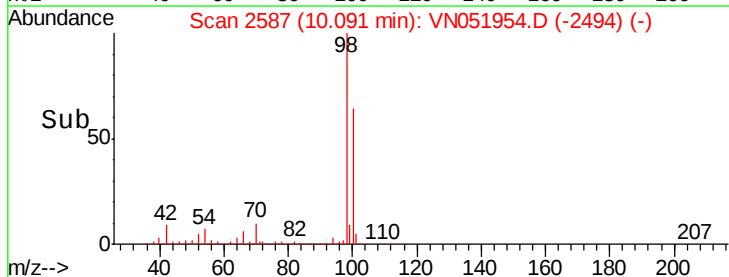
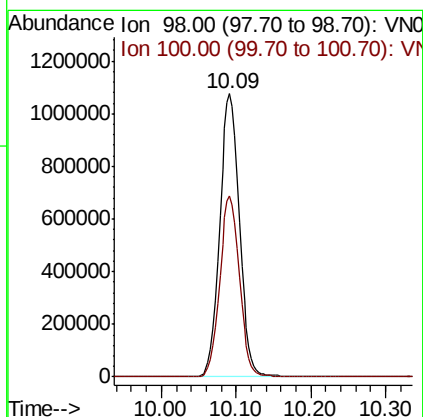
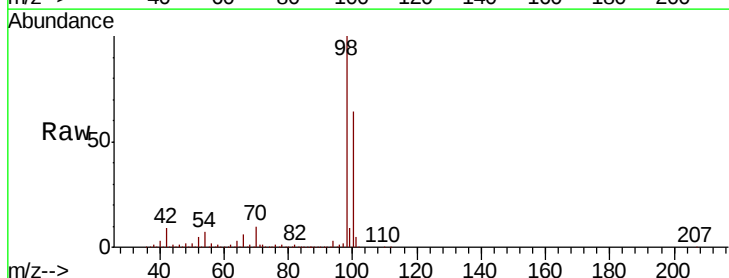
Instrument :
MSVOA_N
ClientSampled :
BS01

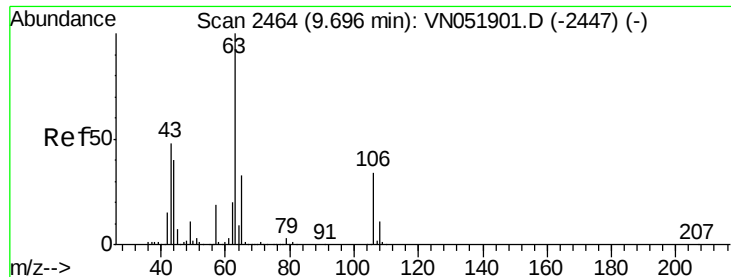
Tot Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 591.0 19.7 29.5#
58 394.0 42.6 64.0#



#50
Toluene-d8
Concen: 0.796 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

Tgt Ion: 98 Resp: 1956104
Ion Ratio Lower Upper
98 100
100 63.8 51.0 76.4

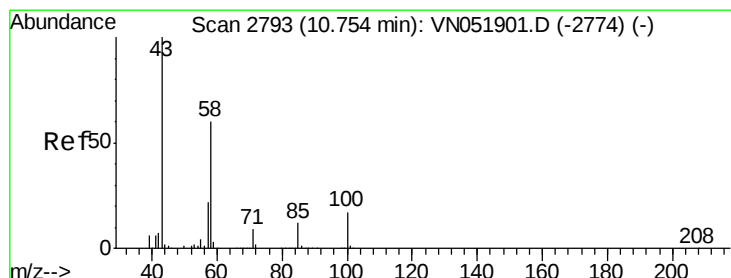
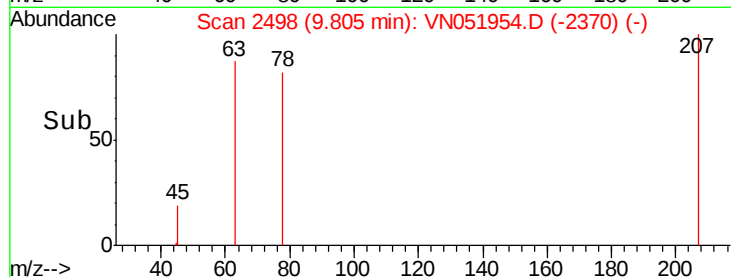
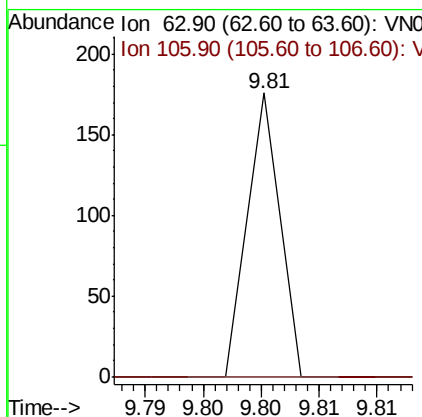
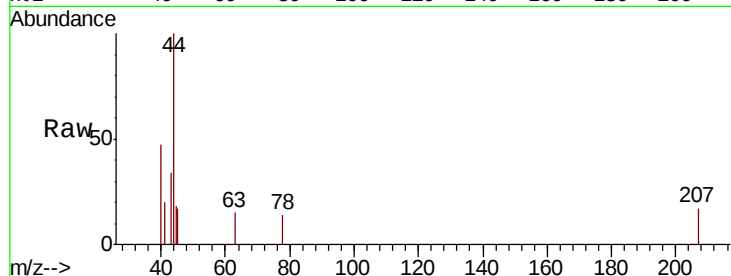




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.759 ug/l
 RT: 9.81 min Scan# 2498
 Delta R.T. 0.11 min
 Lab File: VN051954.D
 Acq: 19 Oct 2018 18:01

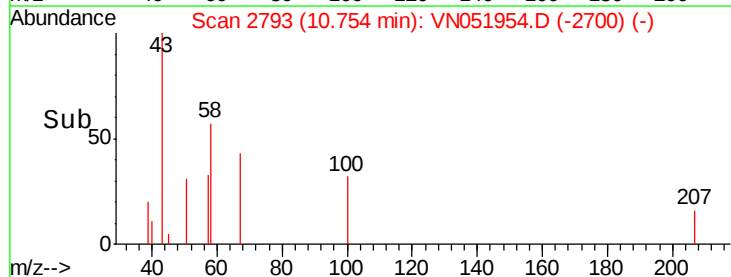
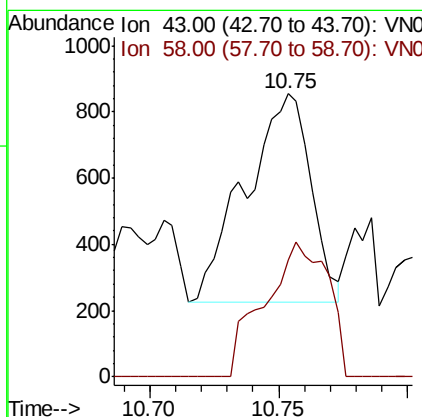
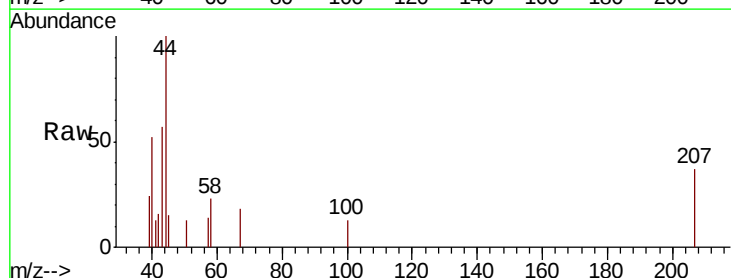
Instrument :
 MSVOA_N
 ClientSampleId :
 BS01

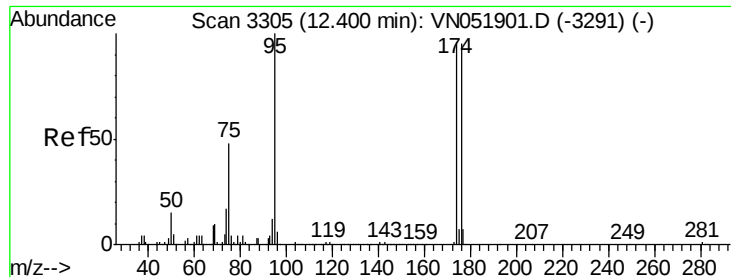
Tot Ion: 63 Resp: 34
 Ion Ratio Lower Upper
 63 100
 106 0.0 27.5 41.3#



#59
 2-Hexanone
 Concen: 0.324 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. -0.00 min
 Lab File: VN051954.D
 Acq: 19 Oct 2018 18:01

Tgt Ion: 43 Resp: 1111
 Ion Ratio Lower Upper
 43 100
 58 62.7 29.8 89.5





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

BS01

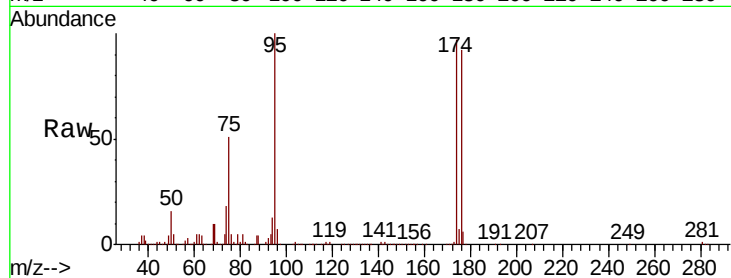
Tot Ion: 95 Resp: 631465

Ion Ratio Lower Upper

95 100

174 97.7 0.0 195.0

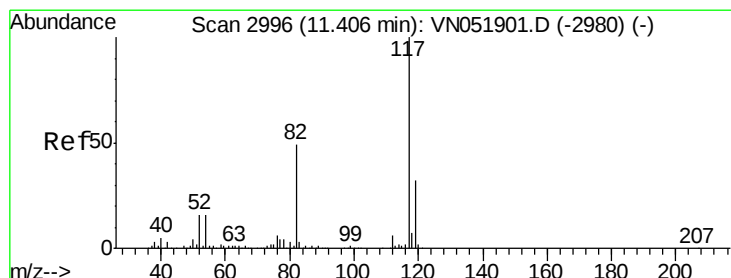
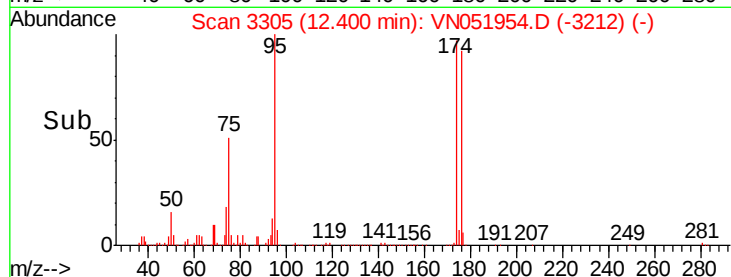
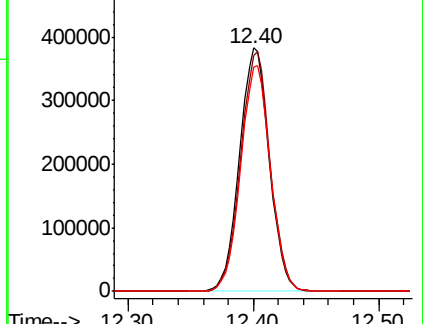
176 92.8 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): VN051901.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051901.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051901.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

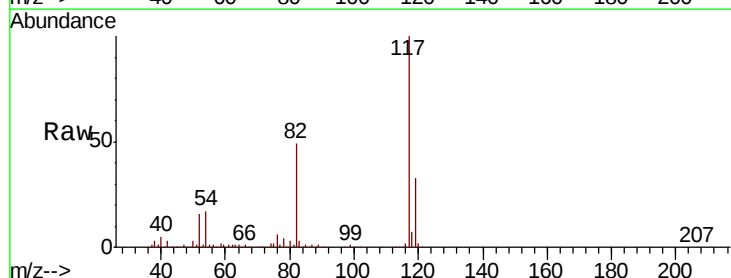
Tgt Ion: 117 Resp: 1312171

Ion Ratio Lower Upper

117 100

82 49.0 38.9 58.3

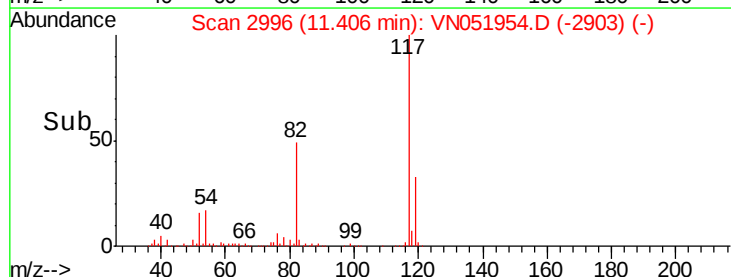
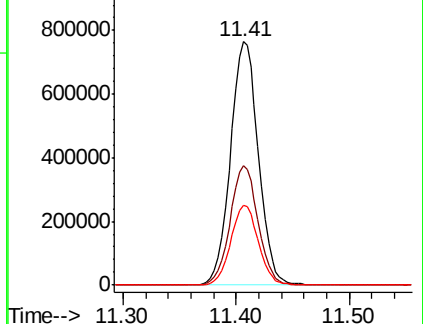
119 32.6 25.9 38.9

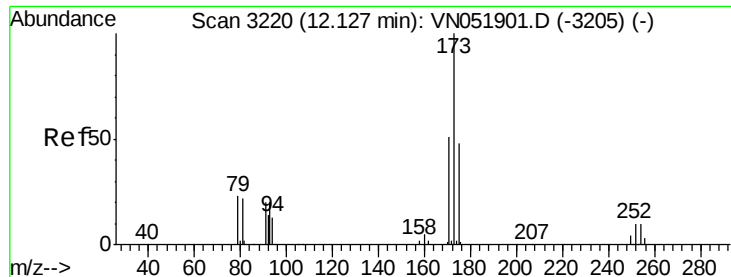


Abundance Ion 116.90 (116.60 to 117.60): VN051901.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051901.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN051901.D (-2980) (-)





#71

Bromoform

Concen: 3.932 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampleId :

BS01

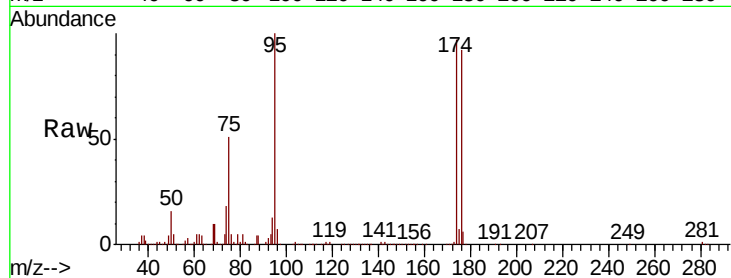
Tot Ion:173 Resp: 5481

Ion Ratio Lower Upper

173 100

175 731.3 24.0 72.0#

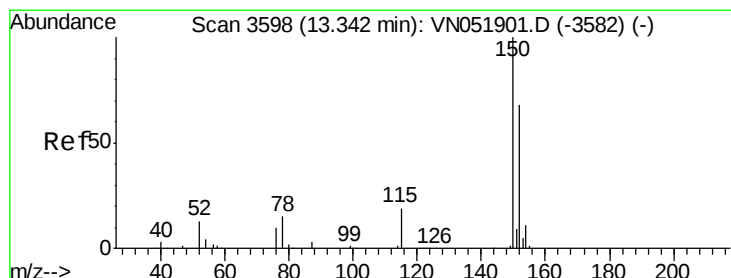
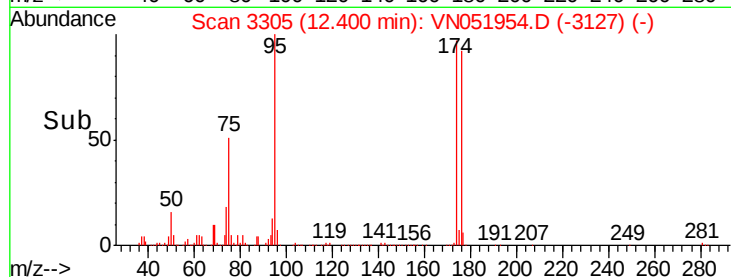
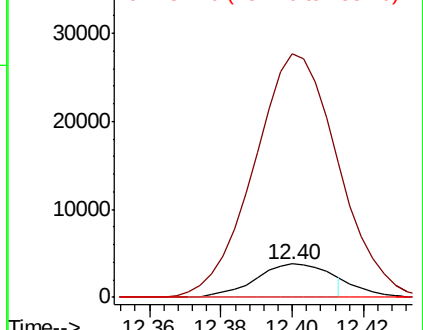
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

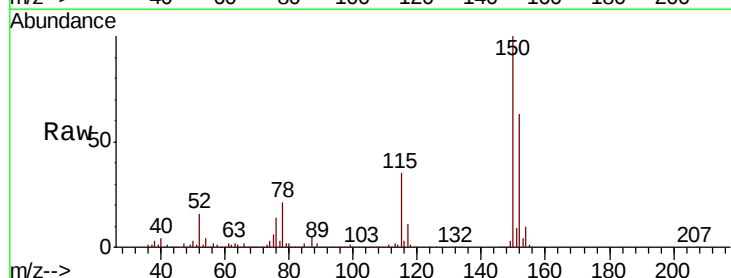
Tgt Ion:152 Resp: 648295

Ion Ratio Lower Upper

152 100

115 55.4 26.7 80.1

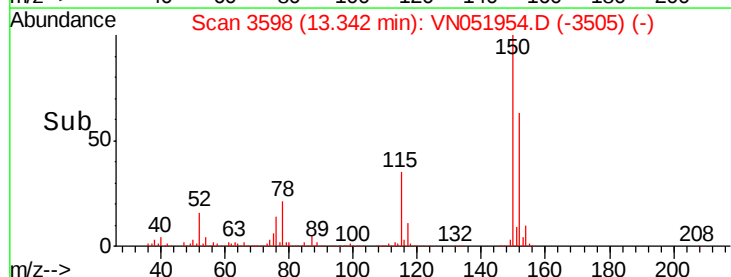
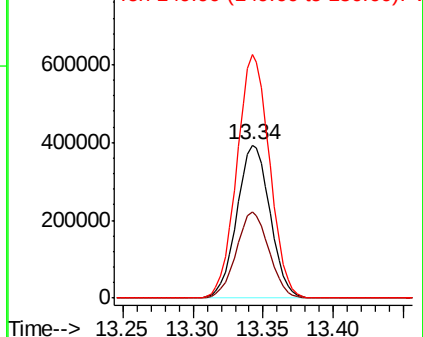
150 157.1 0.0 346.4

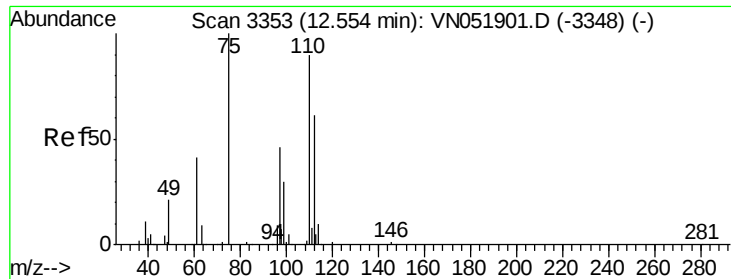


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.828 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

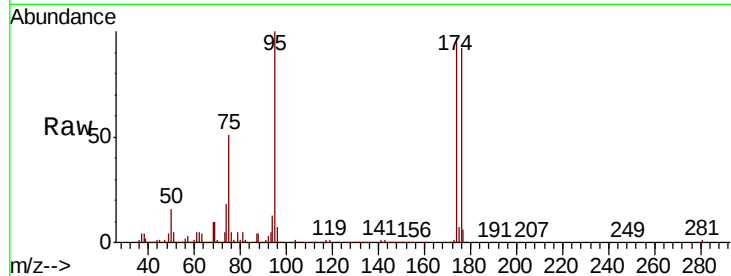
BS01

Tot Ion: 75 Resp: 321711

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

200000

150000

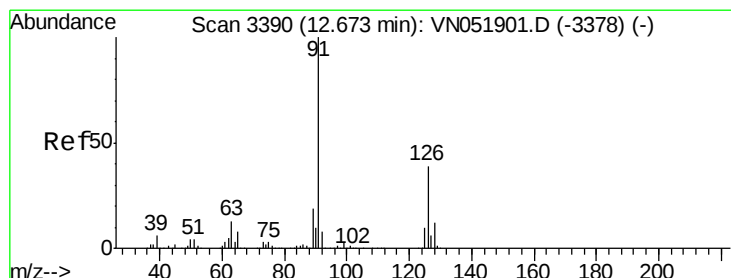
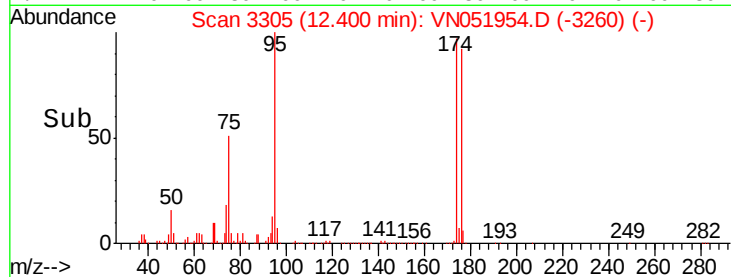
100000

50000

0

12.35 12.40 12.45

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051954.D

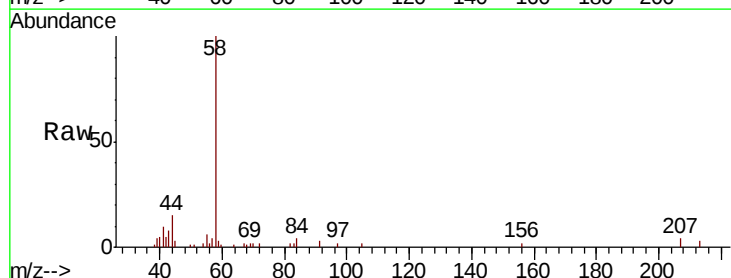
Acq: 19 Oct 2018 18:01

Tgt Ion: 91 Resp: 275

Ion Ratio Lower Upper

91 100

126 0.0 19.6 58.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

300

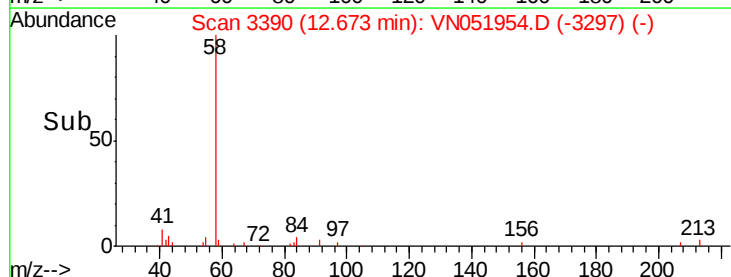
200

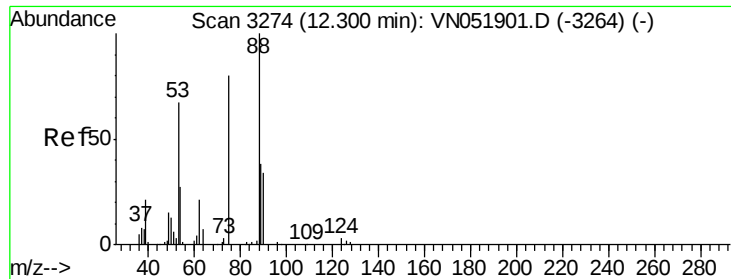
100

0

12.66 12.67 12.68

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 134.202 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

Instrument :

MSVOA_N

ClientSampled :

BS01

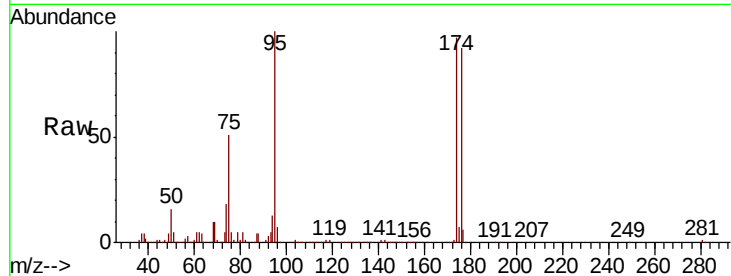
Tot Ion: 75 Resp: 321711

Ion Ratio Lower Upper

75 100

53 0.0 68.5 102.7#

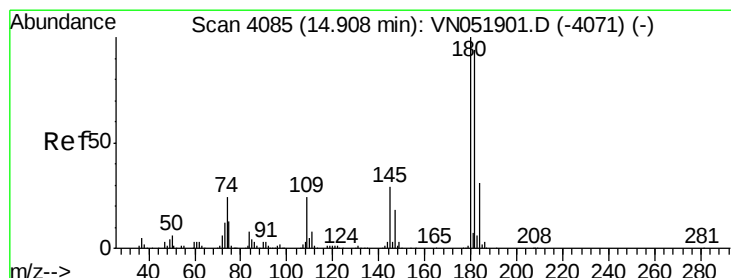
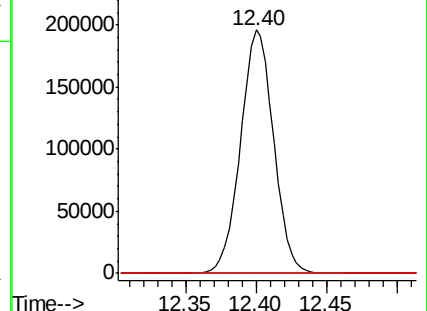
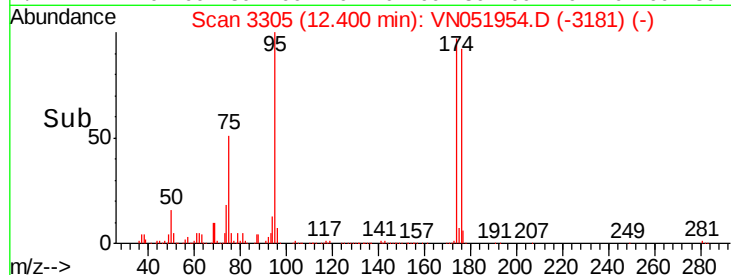
89 0.0 39.0 58.6#



Abundance Ion 74.90 (74.60 to 75.60): VN051954.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051954.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051954.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.088 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051954.D

Acq: 19 Oct 2018 18:01

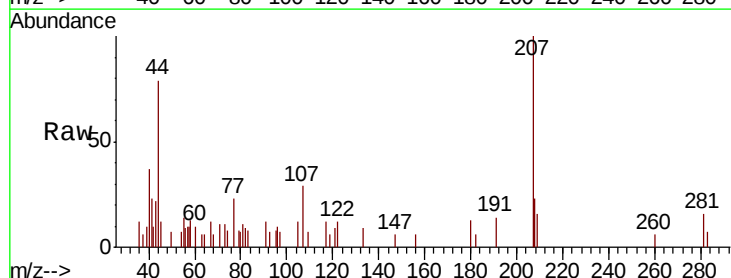
Tgt Ion:180 Resp: 304

Ion Ratio Lower Upper

180 100

182 31.3 47.3 141.9#

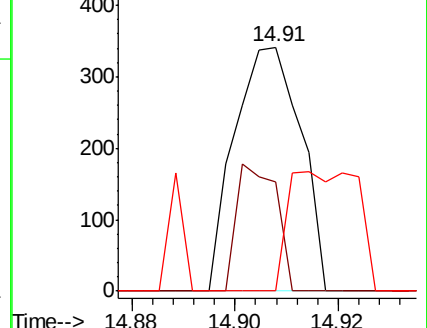
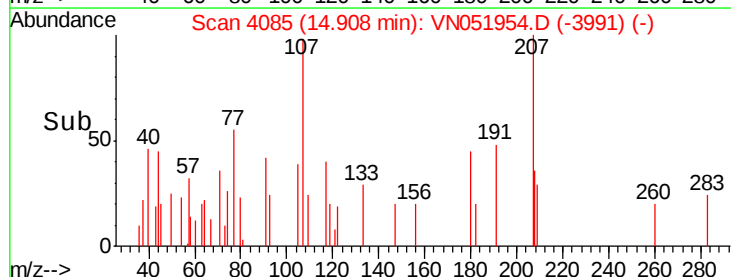
145 51.6 14.5 43.5#

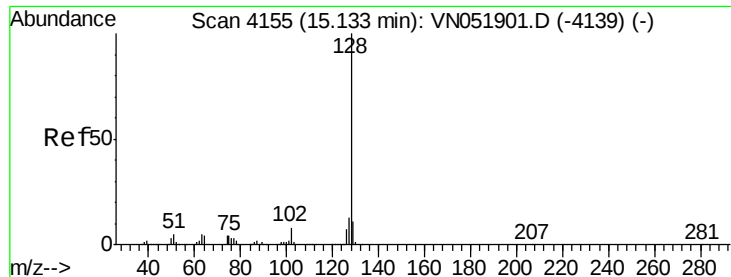


Abundance Ion 179.80 (179.50 to 180.50): VN051954.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN051954.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN051954.D (-3991) (-)

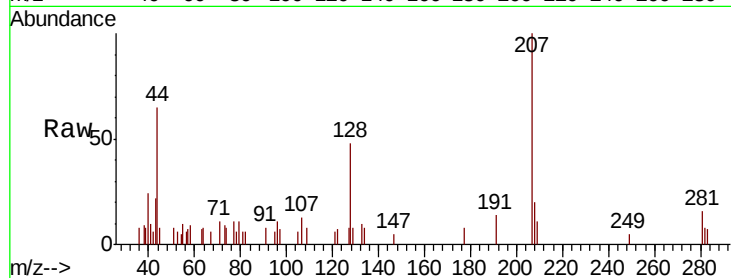




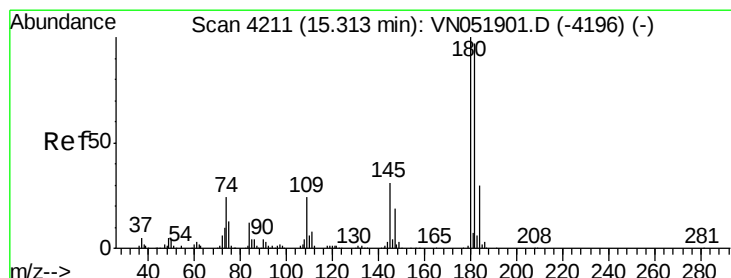
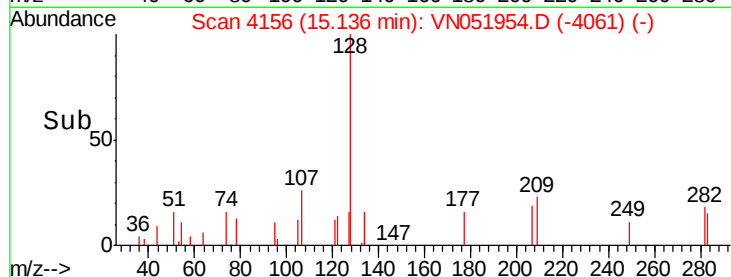
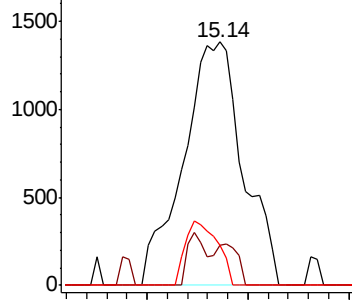
#95
Naphthalene
Concen: 4.185 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

Instrument :
MSVOA_N
ClientSampled :
BS01

Tot Ion:128 Resp: 2855
Ion Ratio Lower Upper
128 100
127 5.7 10.2 15.2#
129 0.0 8.5 12.7#

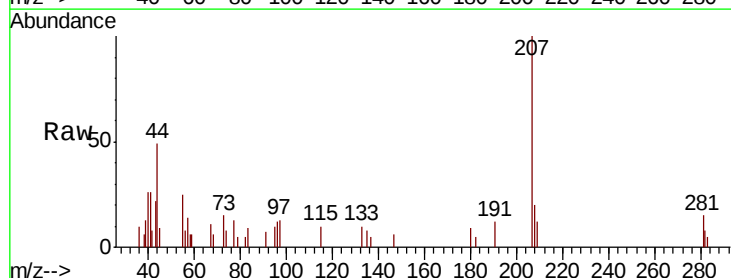


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.925 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. -0.01 min
Lab File: VN051954.D
Acq: 19 Oct 2018 18:01

Tgt Ion:180 Resp: 125
Ion Ratio Lower Upper
180 100
182 24.0 47.9 143.8#
145 62.4 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

