

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051747.D
 Acq On : 9 Oct 2018 13:17
 Operator : MD\SY
 Sample : J5235-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CLEARWELL

Quant Time: Oct 10 03:28:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	112040	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	639140	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	527240	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	228180	29.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.80%
60) 4-Bromofluorobenzene	12.40	95	201617	25.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.53%
63) Toluene-d8	10.09	98	745733	31.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.20%

Target Compounds

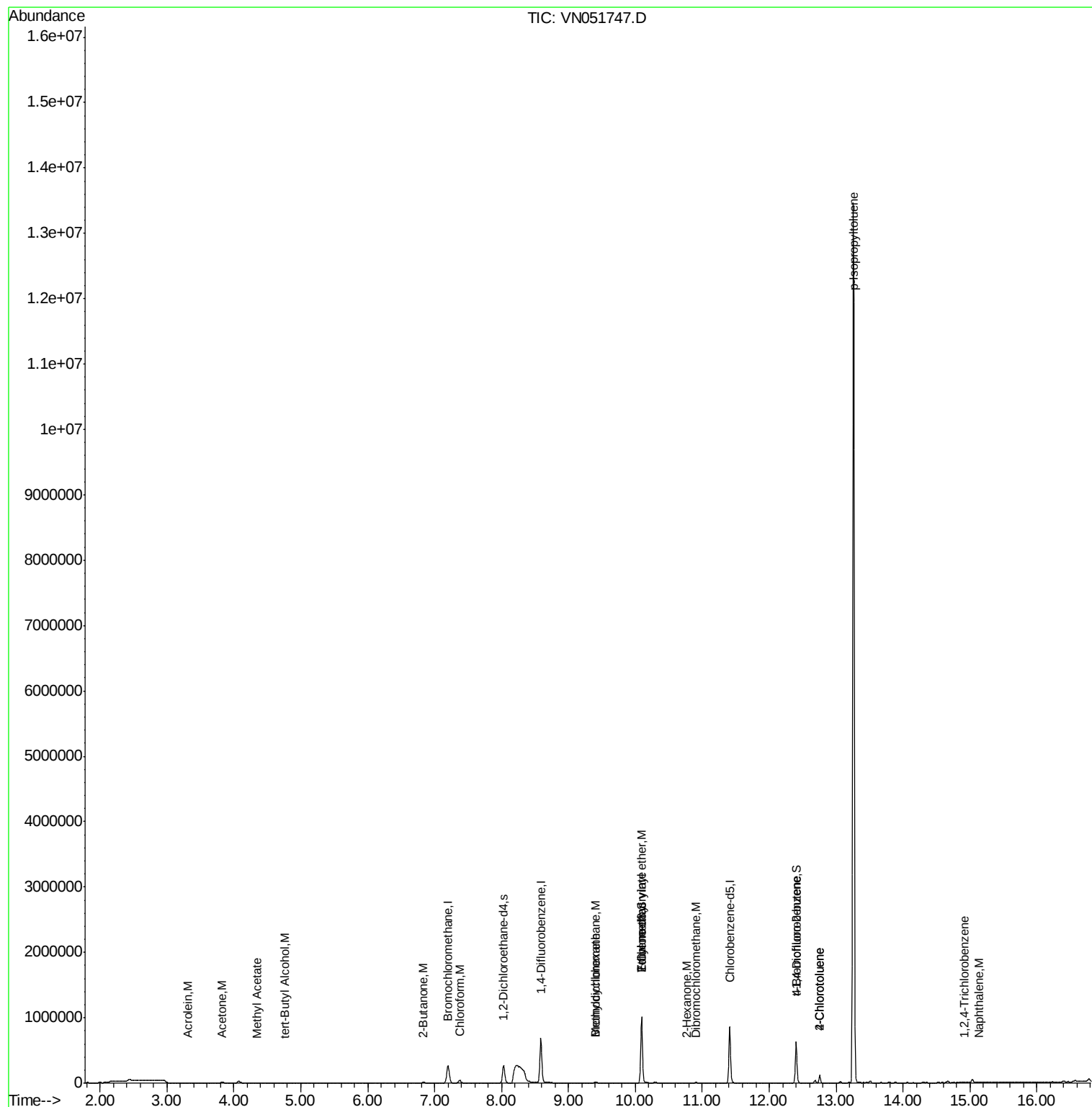
					Ovalue	
12) Methyl Acetate	4.34	43	1563	0.379	ug/l #	48
13) Acrolein	3.32	56	169	0.557	ug/l	89
15) Acetone	3.82	58	6622	16.444	ug/l	88
23) tert-Butyl Alcohol	4.77	59	159	0.365	ug/l #	100
25) Chloroform	7.38	83	37508	3.102	ug/l	99
30) 2-Butanone	6.84	43	512	0.247	ug/l #	63
38) Methylcyclohexane	9.40	83	9841	0.915	ug/l #	16
41) Bromodichloromethane	9.40	83	9841	1.013	ug/l #	98
51) Ethyl methacrylate	10.10	69	2395	0.307	ug/l	84
53) Dibromochloromethane	10.90	129	5689	0.705	ug/l	96
55) 2-Chloroethyl vinyl ether	10.10	63	704	0.218	ug/l #	1
59) 2-Hexanone	10.75	43	1038	0.354	ug/l #	63
75) 2-Chlorotoluene	12.75	91	10683	0.522	ug/l	48
77) t-1,4-Dichloro-2-butene	12.40	75	106979	54.082	ug/l #	12
78) 4-Chlorotoluene	12.75	91	10683	0.520	ug/l	50
82) p-Isopropyltoluene	13.26	119	145320	5.073	ug/l #	1
89) 1,2,4-Trichlorobenzene	14.92	180	1251	6.984	ug/l #	83
91) Naphthalene	15.14	128	3611	0.285	ug/l #	94

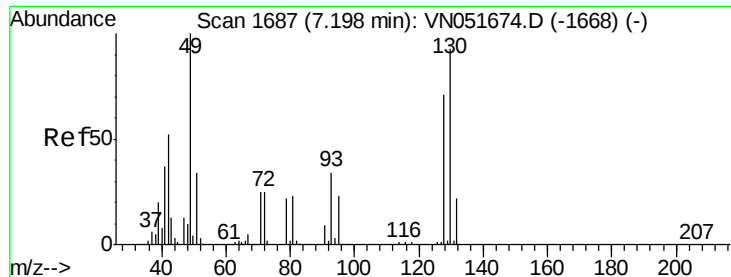
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

Instrument :

MSVOA_N

ClientSampled :

CLEARWELL

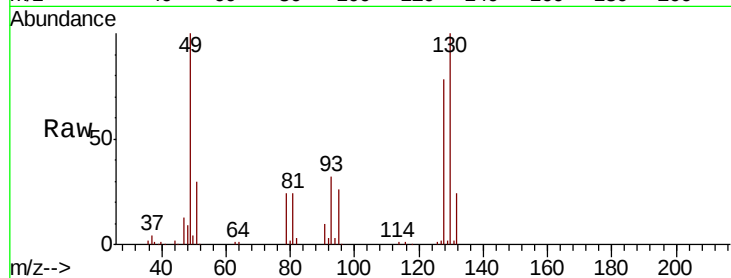
Tot Ion:128 Resp: 112040

Ion Ratio Lower Upper

128 100

49 128.0 0.0 403.3

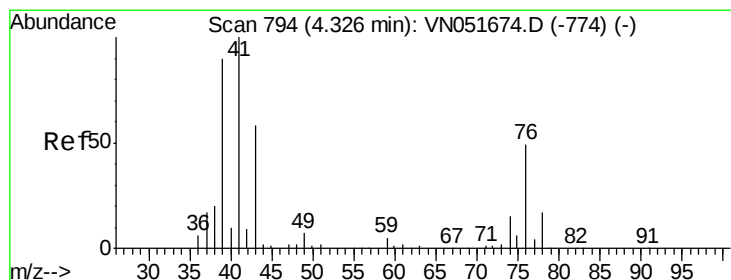
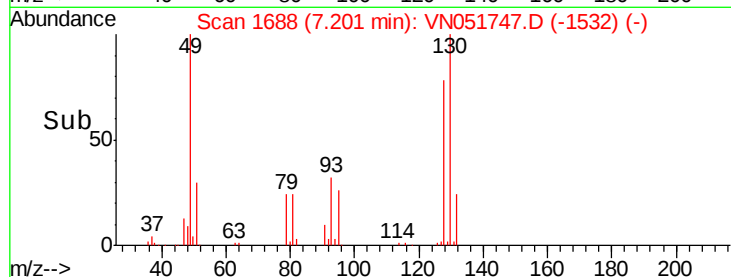
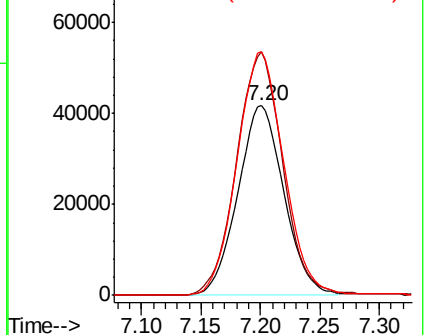
130 129.9 0.0 326.0



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



#12

Methyl Acetate

Concen: 0.379 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051747.D

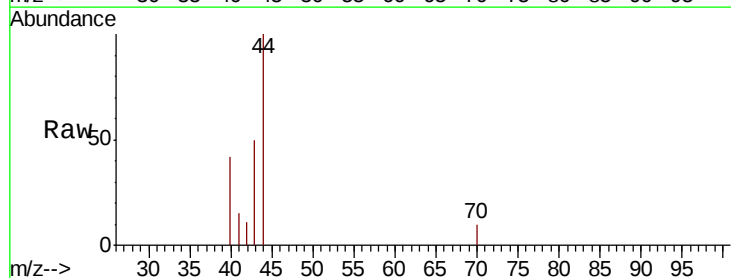
Acq: 9 Oct 2018 13:17

Tgt Ion: 43 Resp: 1563

Ion Ratio Lower Upper

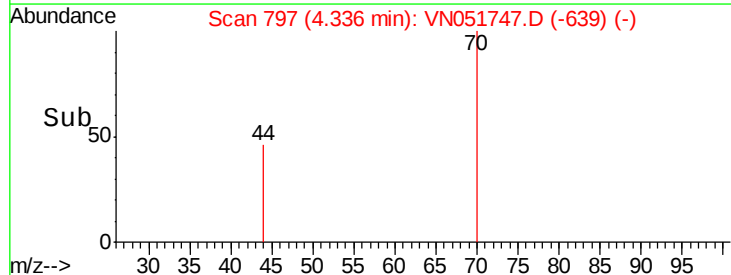
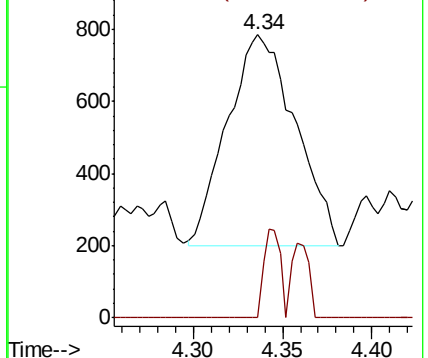
43 100

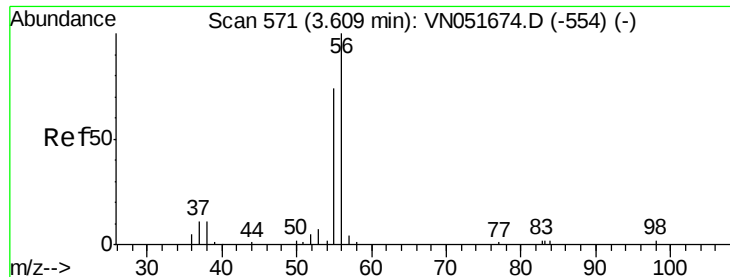
74 0.0 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.557 ug/l

RT: 3.32 min Scan# 482

Delta R.T. -0.29 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

Instrument :

MSVOA_N

ClientSampled :

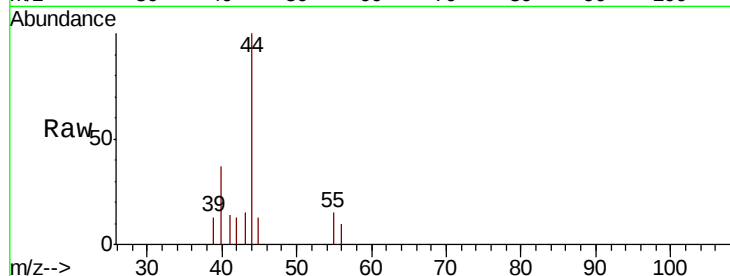
CLEARWELL

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

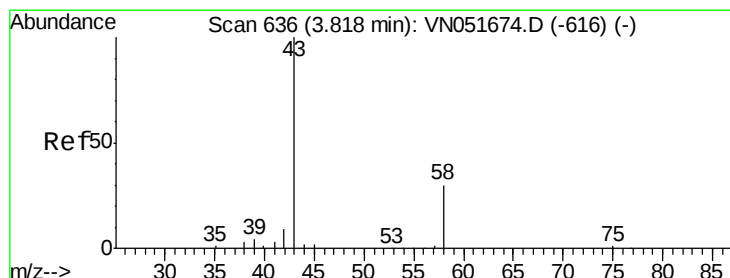
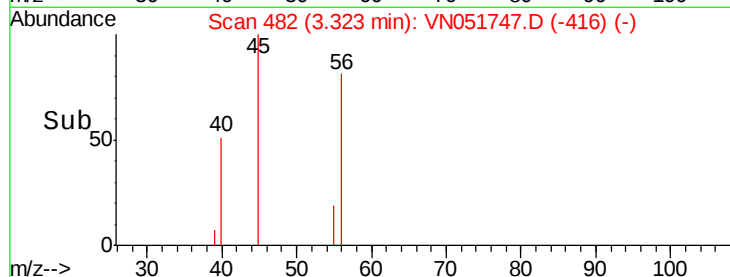
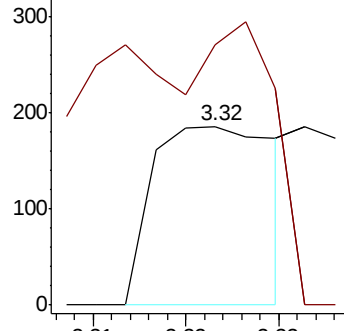
56 100

55 89.9 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: 16.444 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051747.D

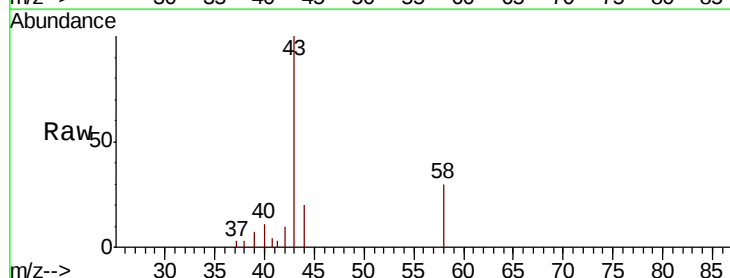
Acq: 9 Oct 2018 13:17

Tgt Ion: 58 Resp: 6622

Ion Ratio Lower Upper

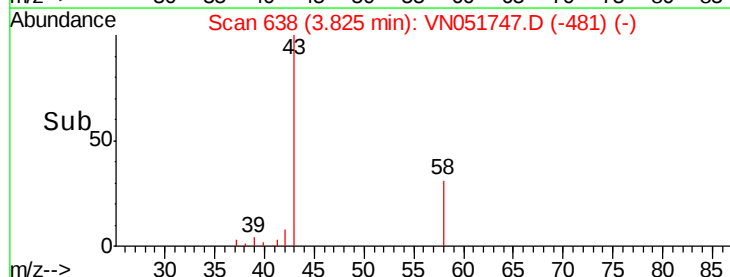
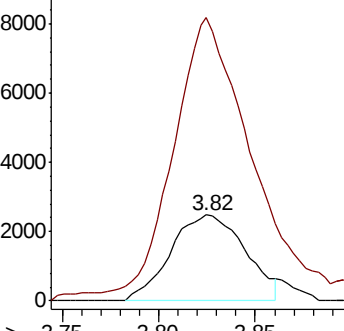
58 100

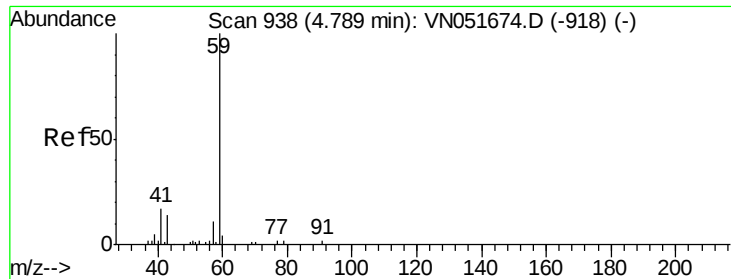
43 312.9 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



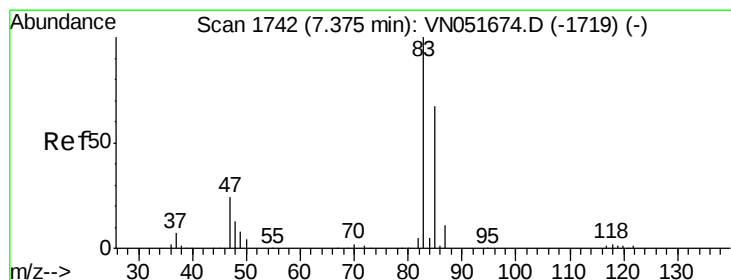
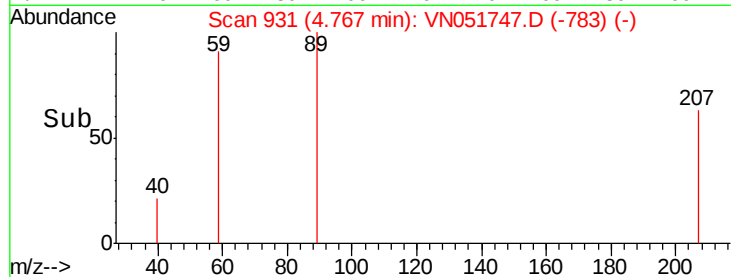
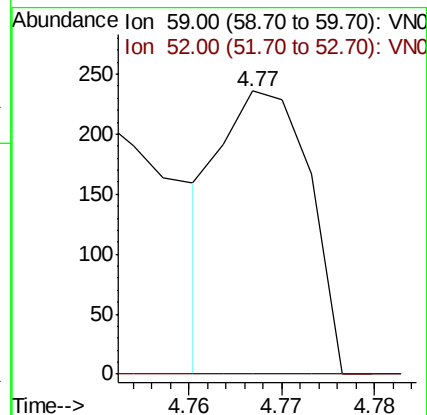
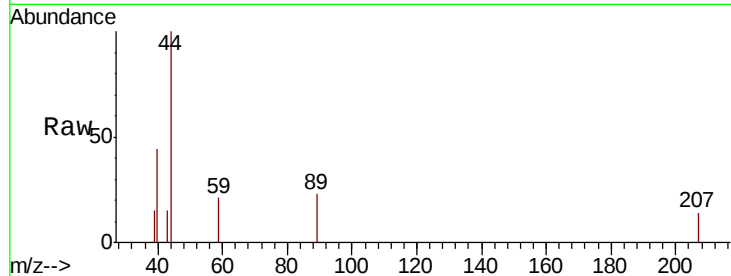


#23

tert-Butyl Alcohol
 Concen: 0.365 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.02 min
 Lab File: VN051747.D
 Acq: 9 Oct 2018 13:17

Instrument :
 MSVOA_N
 ClientSampled :
 CLEARWELL

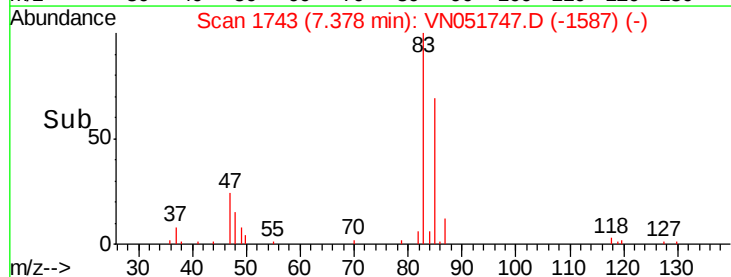
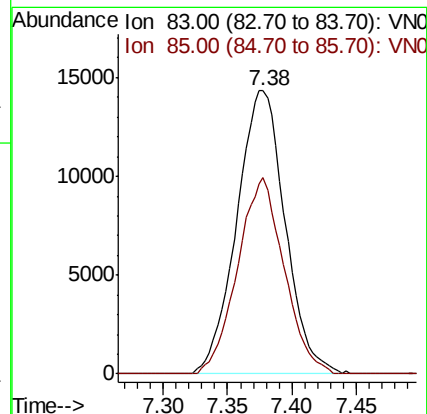
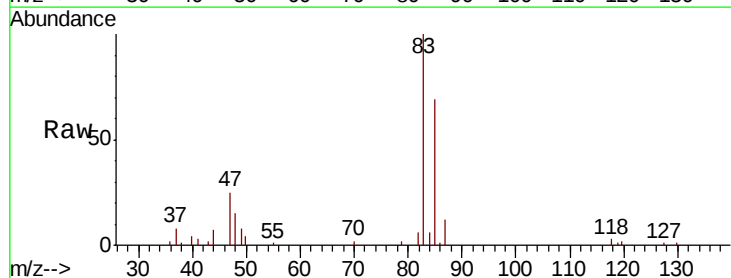
Tot Ion: 59 Resp: 159
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

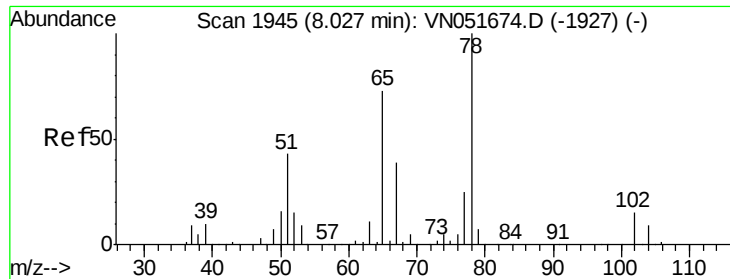


#25

Chloroform
 Concen: 3.102 ug/l
 RT: 7.38 min Scan# 1743
 Delta R.T. 0.00 min
 Lab File: VN051747.D
 Acq: 9 Oct 2018 13:17

Tgt Ion: 83 Resp: 37508
 Ion Ratio Lower Upper
 83 100
 85 69.4 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

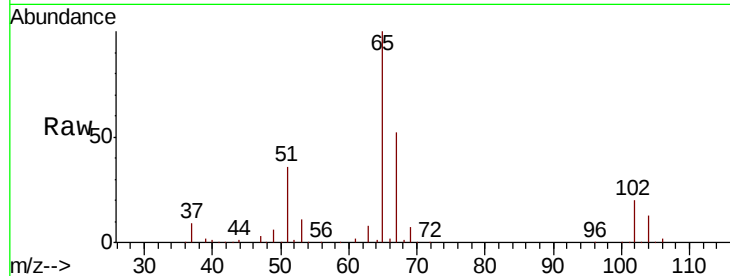
Instrument :
MSVOA_N
ClientSampled :
CLEARWELL

Tot Ion: 65 Resp: 228180

Ion Ratio Lower Upper

65 100

67 49.5 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051674.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051674.D (-1927) (-)

8.03

100000

80000

60000

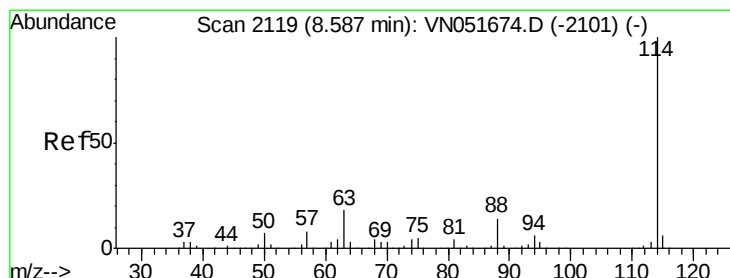
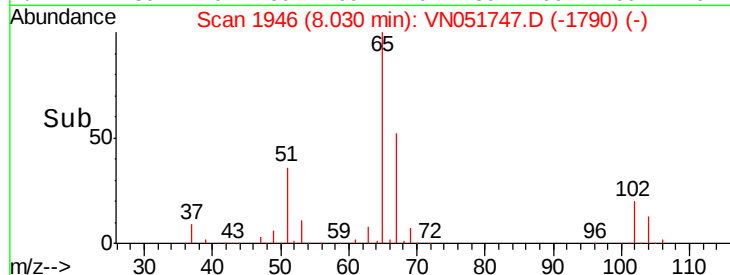
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

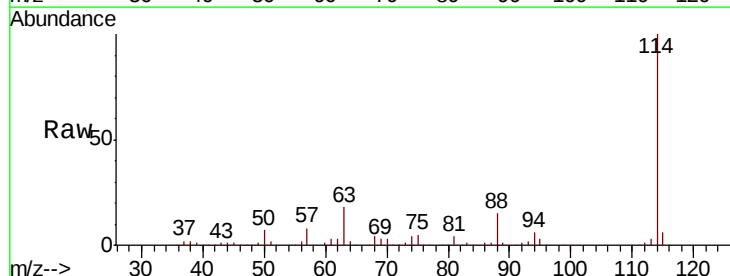
Tgt Ion: 114 Resp: 639140

Ion Ratio Lower Upper

114 100

63 17.6 16.2 24.2

88 14.5 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051674.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051674.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051674.D (-2101) (-)

8.59

400000

300000

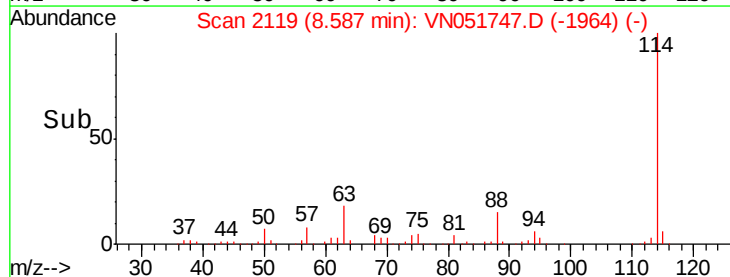
200000

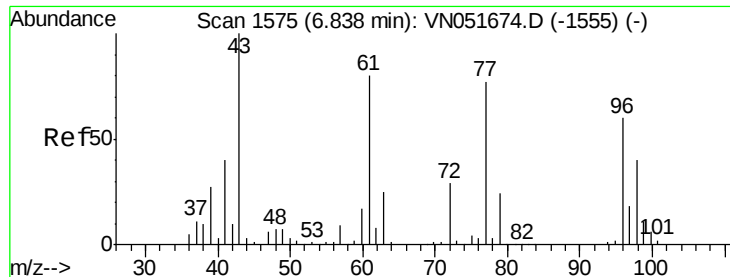
100000

0

8.50 8.60 8.70

Time-->

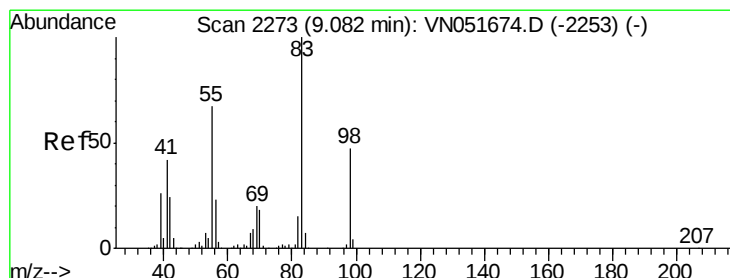
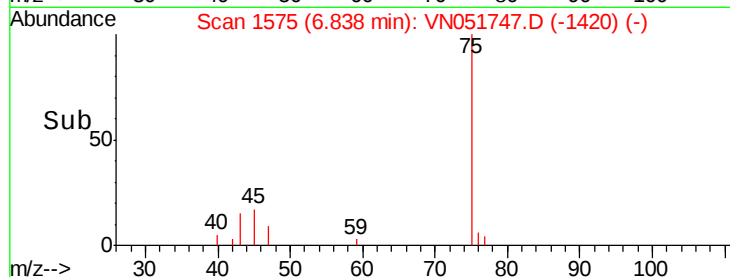
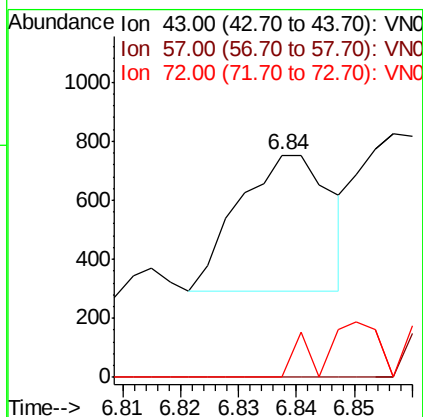
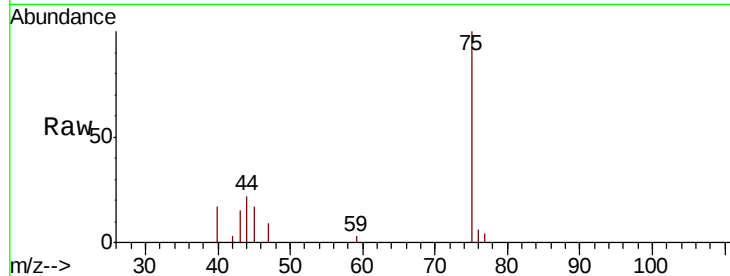




#30
2-Butanone
Concen: 0.247 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

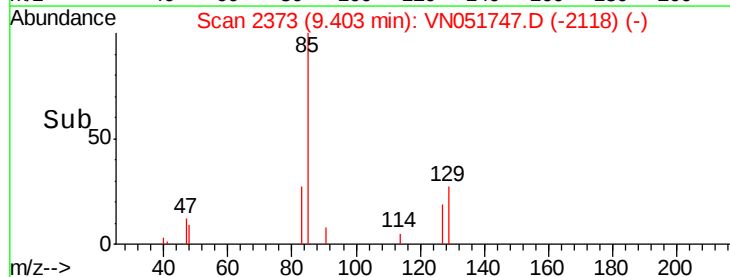
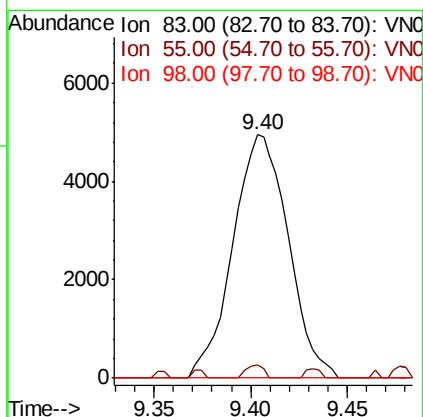
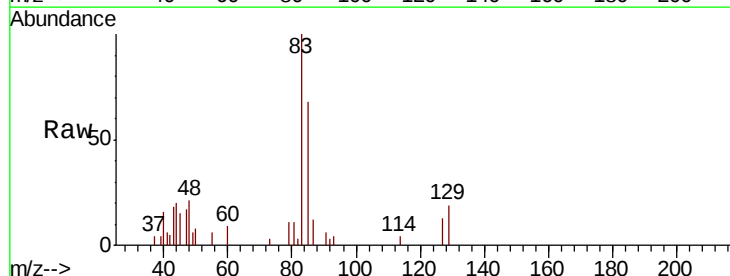
Instrument :
MSVOA_N
ClientSampled :
CLEARWELL

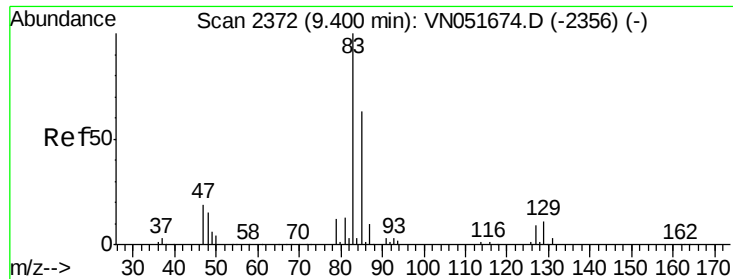
Tot Ion: 43 Resp: 512
Ion Ratio Lower Upper
43 100
57 0.0 4.5 6.7#
72 5.7 21.5 32.3#



#38
Methylcyclohexane
Concen: 0.915 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.32 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

Tgt Ion: 83 Resp: 9841
Ion Ratio Lower Upper
83 100
55 1.7 43.0 129.2#
98 0.0 21.3 63.7#





#41

Bromodichloromethane

Concen: 1.013 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

Instrument :

MSVOA_N

ClientSampleId :

CLEARWELL

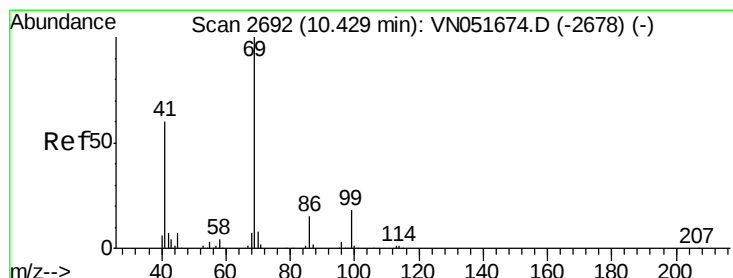
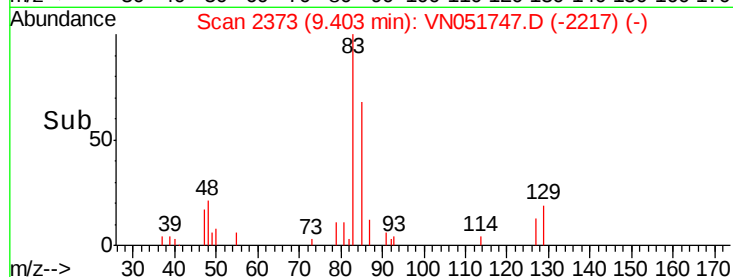
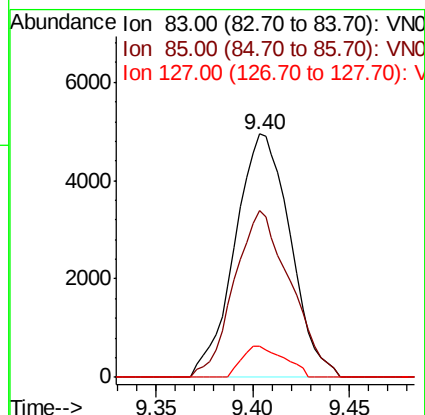
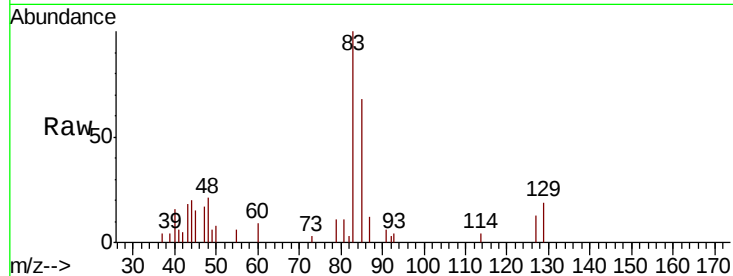
Tot Ion: 83 Resp: 9841

Ion Ratio Lower Upper

83 100

85 68.5 55.7 83.5

127 12.8 8.2 12.4#



#51

Ethyl methacrylate

Concen: 0.307 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

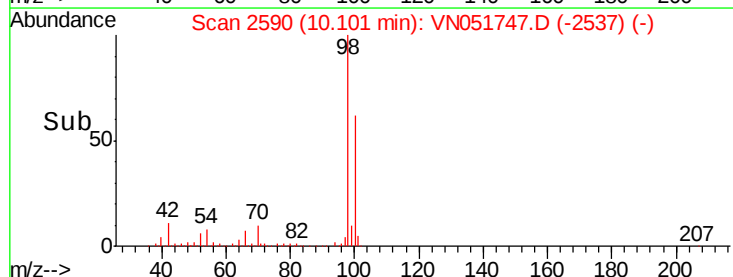
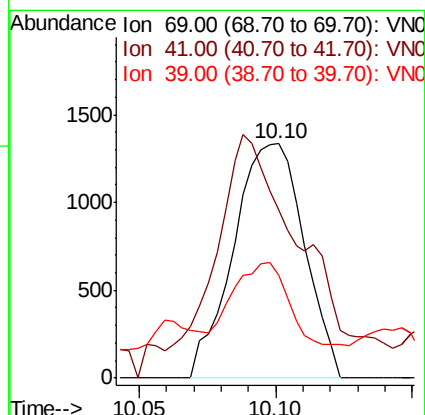
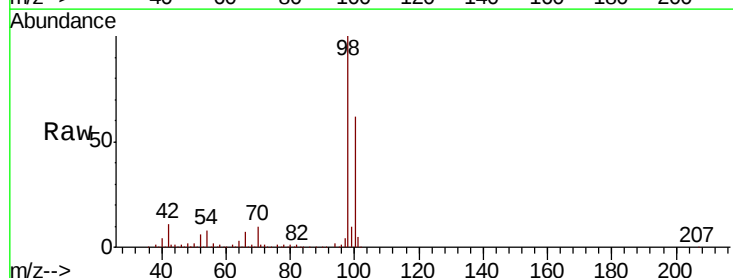
Tgt Ion: 69 Resp: 2395

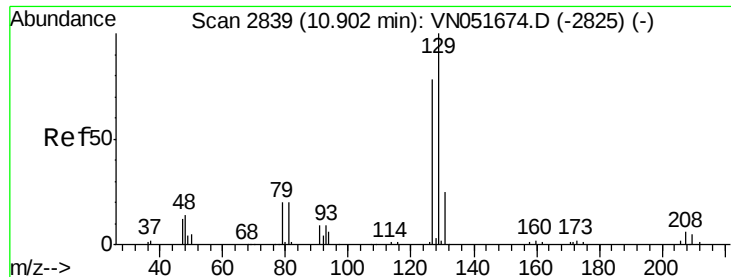
Ion Ratio Lower Upper

69 100

41 51.4 34.4 103.1

39 29.5 16.3 48.8

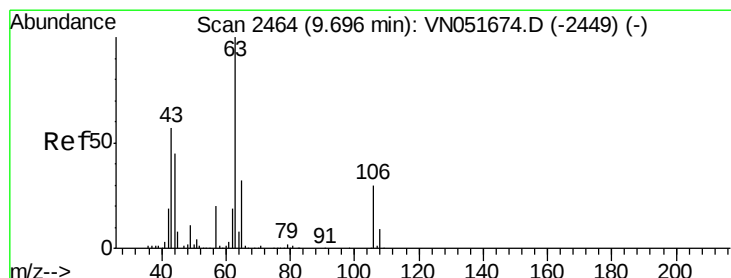
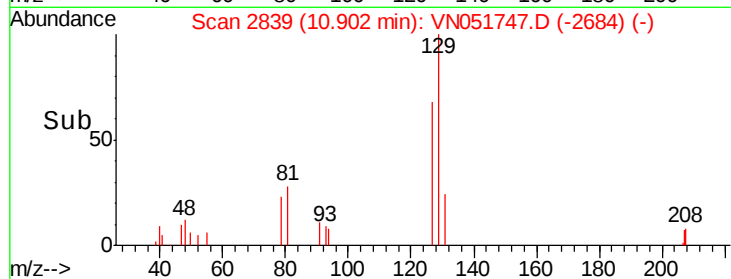
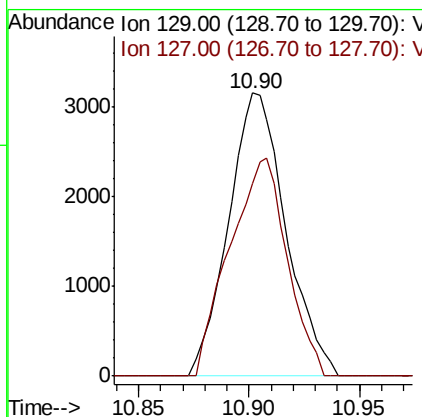
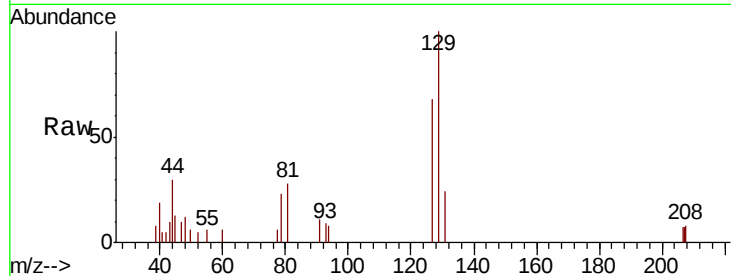




#53
Dibromochloromethane
Concen: 0.705 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

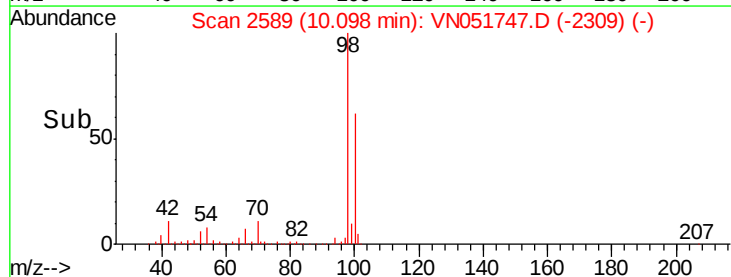
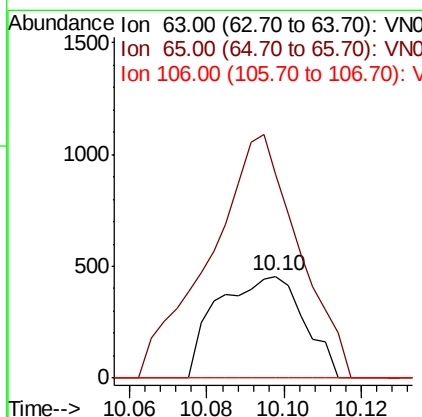
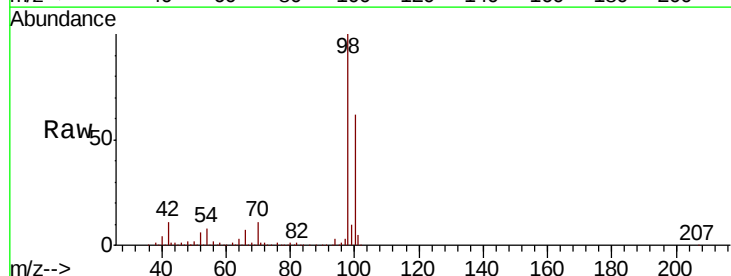
Instrument :
MSVOA_N
ClientSampleId :
CLEARWELL

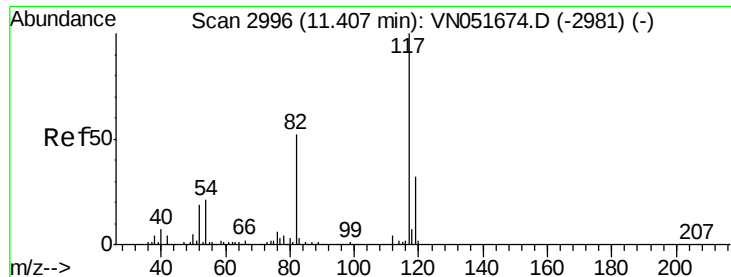
Tot Ion:129 Resp: 5689
Ion Ratio Lower Upper
129 100
127 76.9 40.2 120.5



#55
2-Chloroethyl vinyl ether
Concen: 0.218 ug/l
RT: 10.10 min Scan# 2589
Delta R.T. 0.40 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

Tgt Ion: 63 Resp: 704
Ion Ratio Lower Upper
63 100
65 246.2 25.4 38.0#
106 0.0 21.2 31.8#

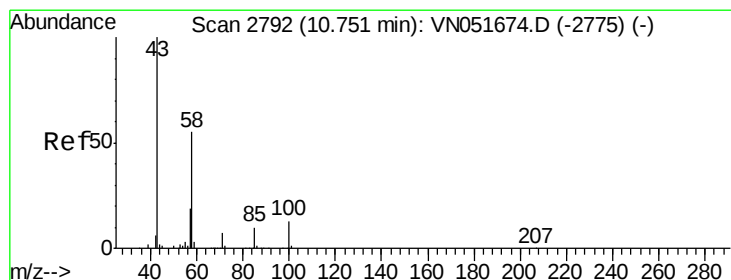
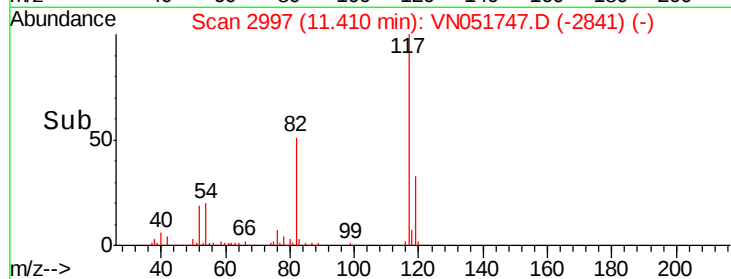
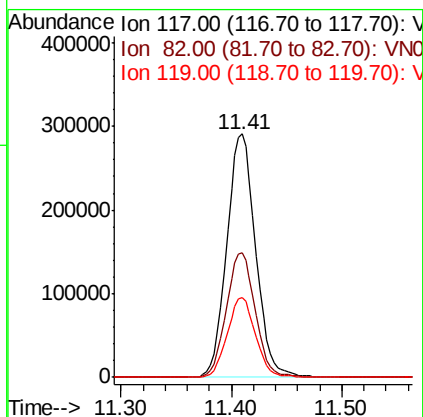
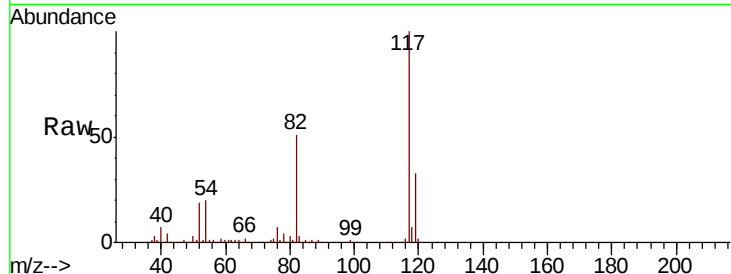




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

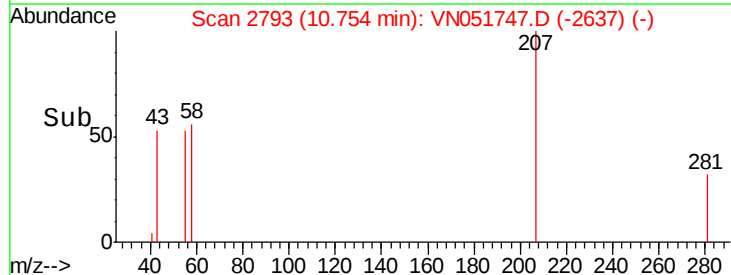
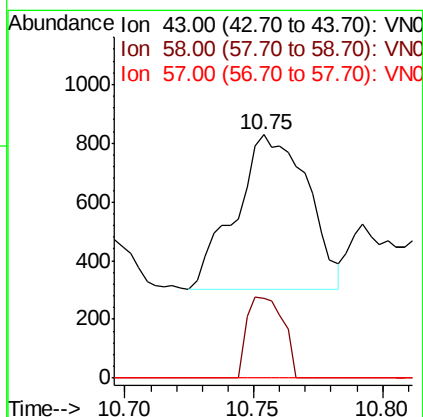
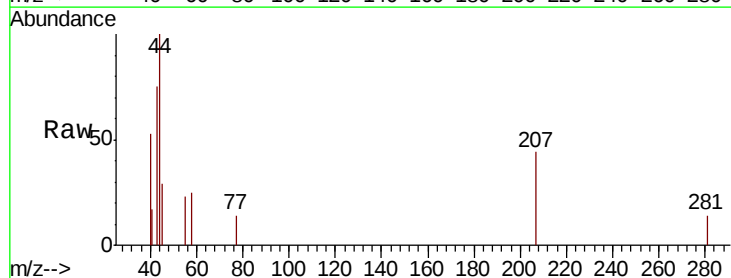
Instrument :
MSVOA_N
ClientSampled :
CLEARWELL

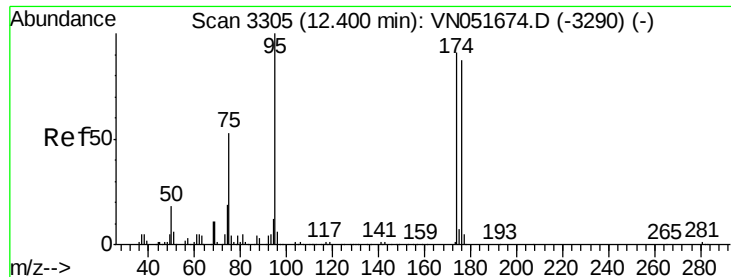
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	44.1	66.1
119	32.1	25.8	38.8



#59
2-Hexanone
Concen: 0.354 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.0	41.3	61.9#
57	0.0	13.4	20.0#

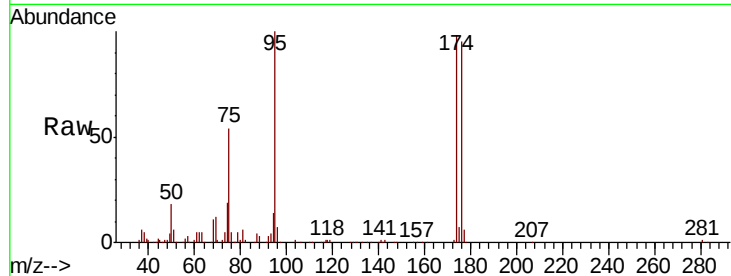




#60
4-Bromofluorobenzene
Concen: 0.354 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

Instrument :
MSVOA_N
ClientSampleId :
CLEARWELL

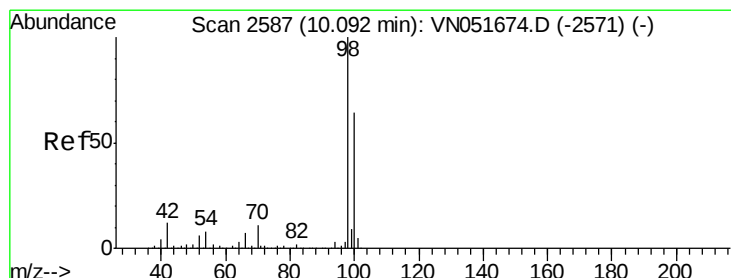
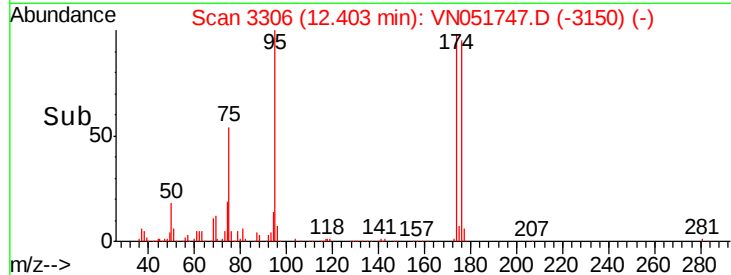
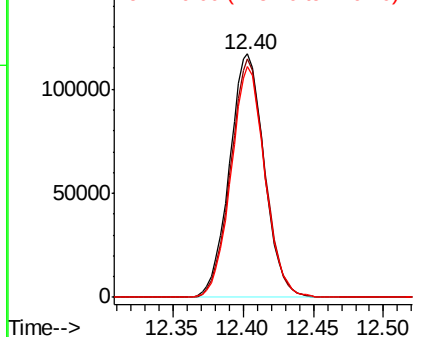
Tot Ion	95	Resp	201617
Ion Ratio	Lower	Upper	
95	100		
174	95.9	73.5	110.3
176	92.4	70.2	105.2



Abundance Ion 95.00 (94.70 to 95.70): VN051747.D (-3290) (-)

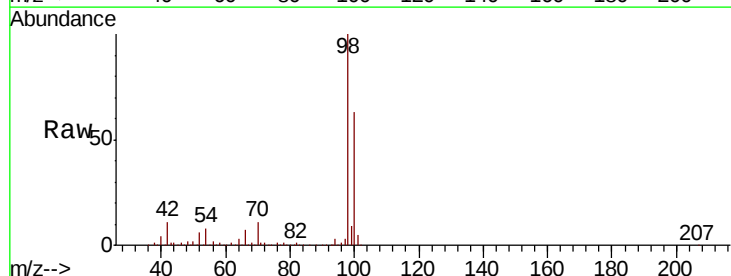
Ion 174.00 (173.70 to 174.70): VN051747.D (-3290) (-)

Ion 176.00 (175.70 to 176.70): VN051747.D (-3290) (-)



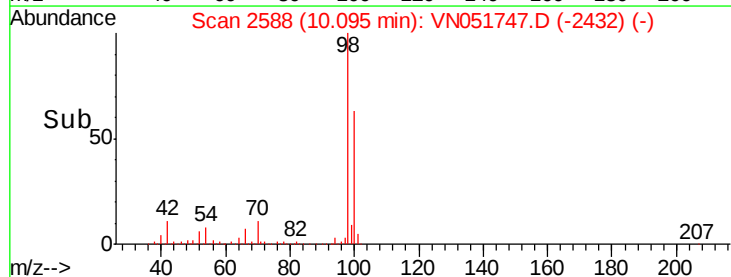
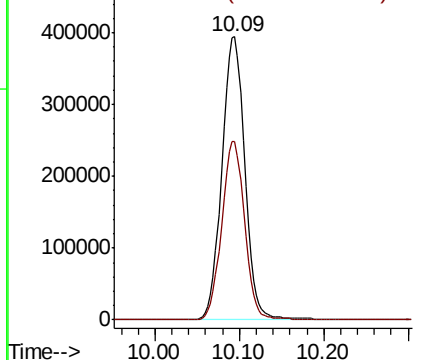
#63
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

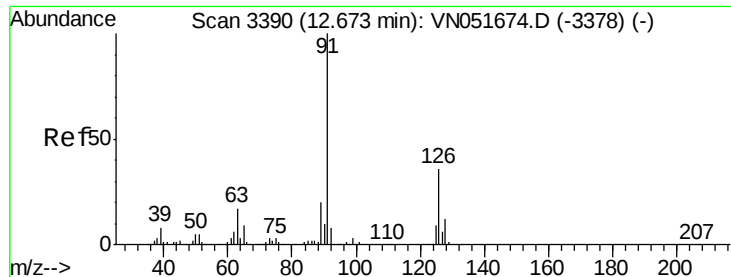
Tgt Ion	98	Resp	745733
Ion Ratio	Lower	Upper	
98	100		
100	62.9	50.8	76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051674.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051674.D (-2571) (-)





#75

2-Chlorotoluene

Concen: 0.522 ug/l

RT: 12.75 min Scan# 3415

Delta R.T. 0.08 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

Instrument :

MSVOA_N

ClientSampleId :

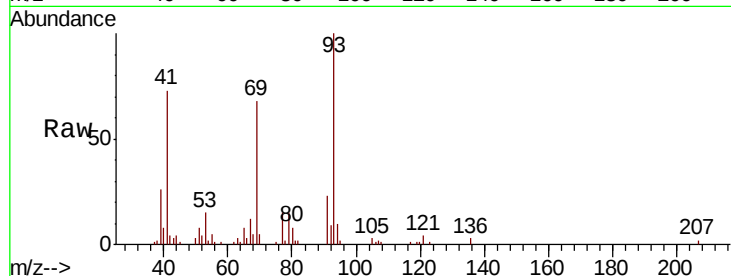
CLEARWELL

Tot Ion: 91 Resp: 10683

Ion Ratio Lower Upper

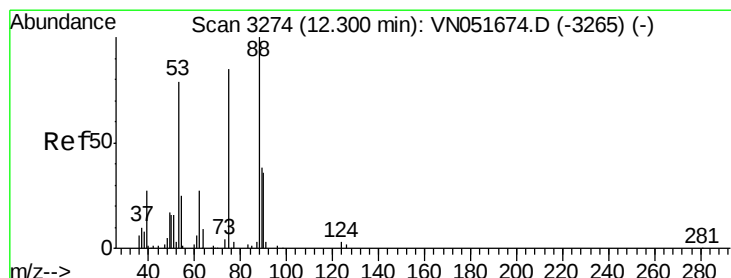
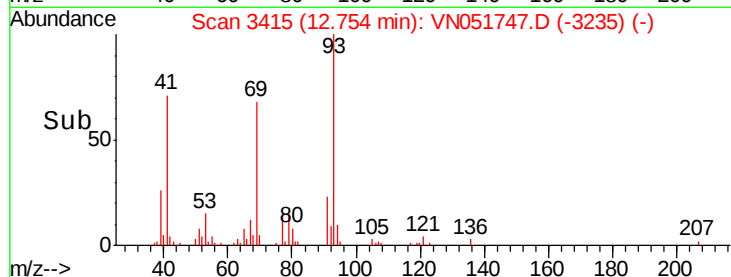
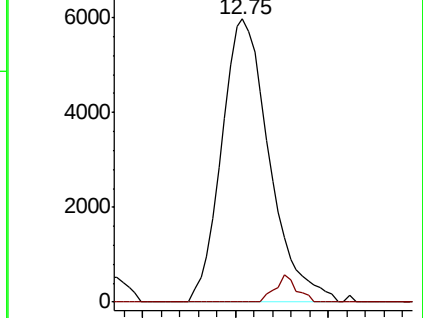
91 100

126 4.2 0.0 67.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): VN



#77

t-1,4-Dichloro-2-butene

Concen: 54.082 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051747.D

Acq: 9 Oct 2018 13:17

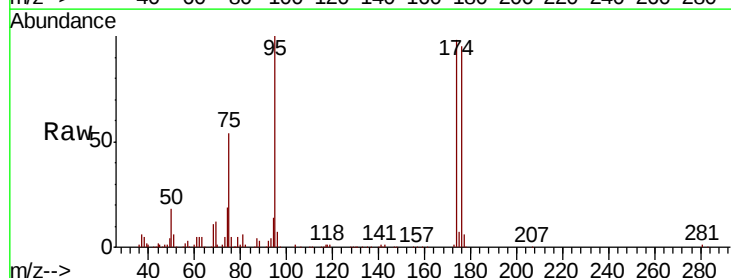
Tgt Ion: 75 Resp: 106979

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

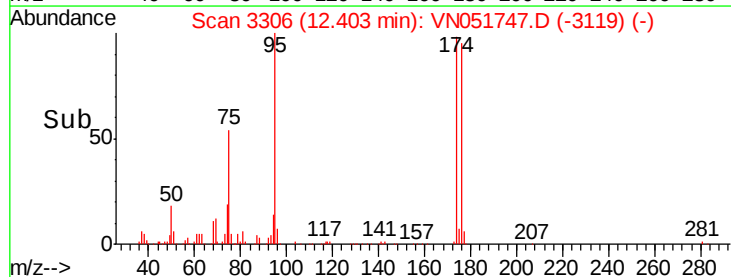
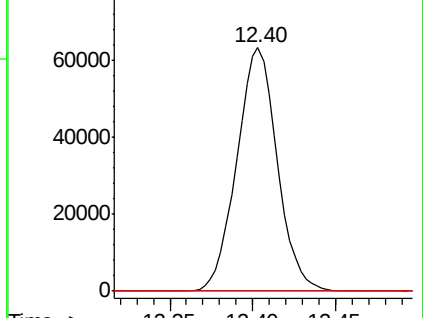
89 0.0 24.6 73.8#

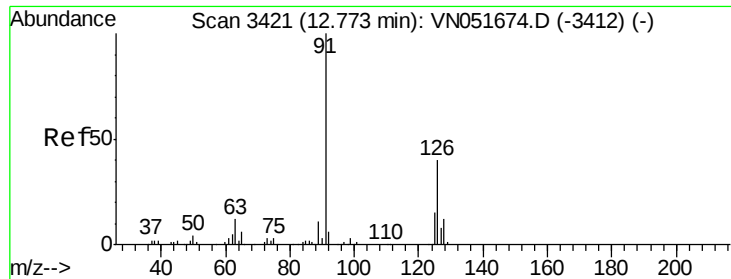


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

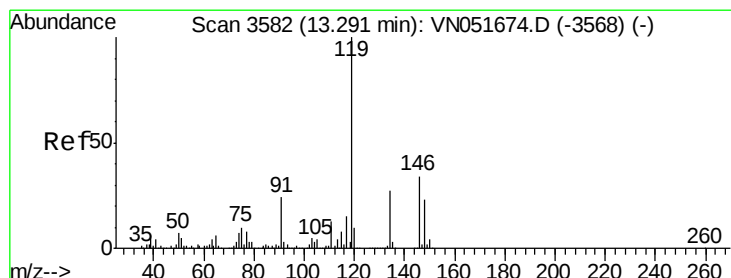
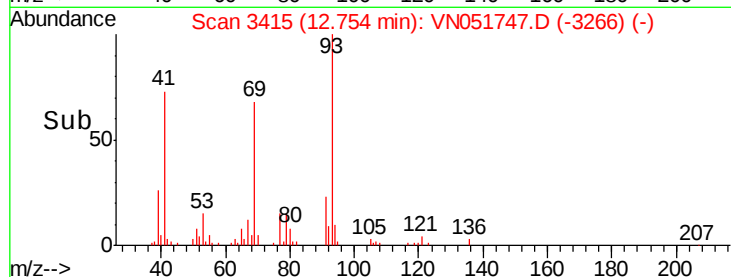
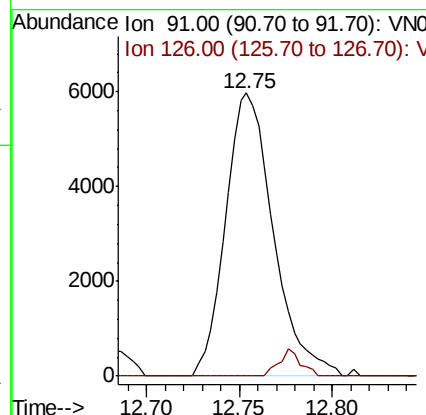
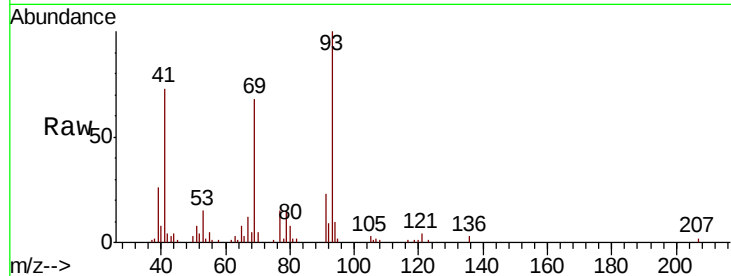




#78
4-Chlorotoluene
Concen: 0.520 ug/l
RT: 12.75 min Scan# 3415
Delta R.T. -0.02 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

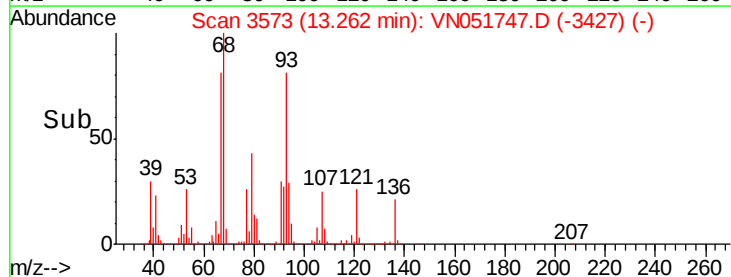
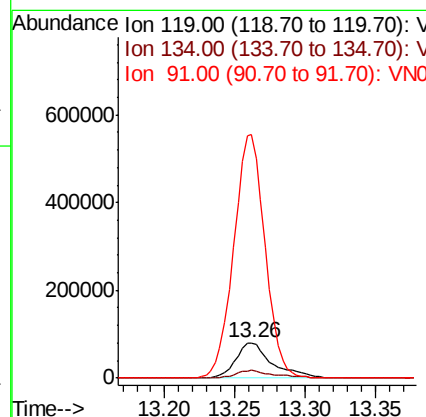
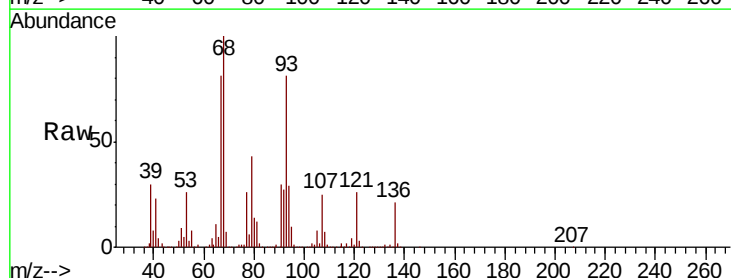
Instrument :
MSVOA_N
ClientSampled :
CLEARWELL

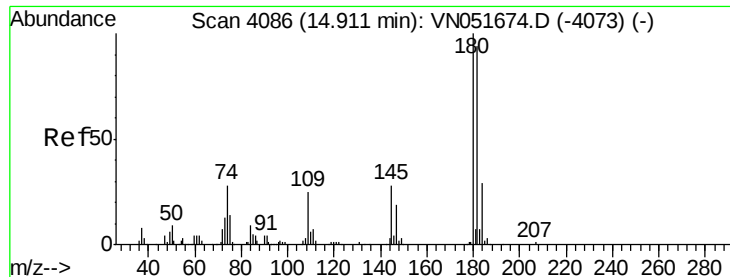
Tot Ion: 91 Resp: 10683
Ion Ratio Lower Upper
91 100
126 4.2 0.0 65.2



#82
p-Isopropyltoluene
Concen: 5.073 ug/l
RT: 13.26 min Scan# 3573
Delta R.T. -0.03 min
Lab File: VN051747.D
Acq: 9 Oct 2018 13:17

Tgt Ion: 119 Resp: 145320
Ion Ratio Lower Upper
119 100
134 23.3 0.0 53.6
91 592.6 0.0 52.0#

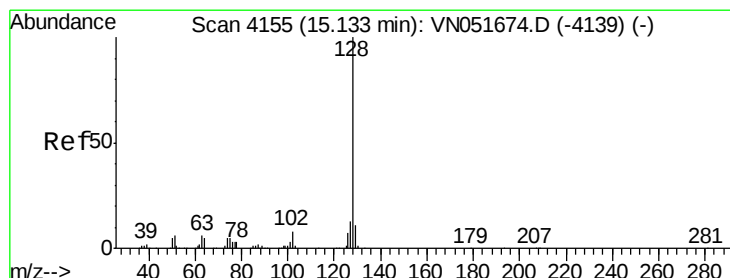
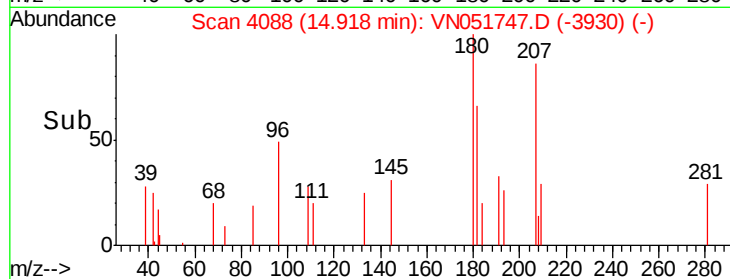
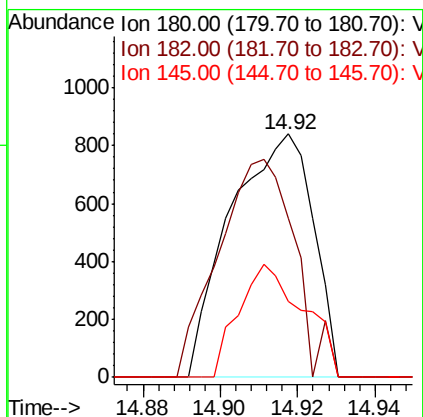
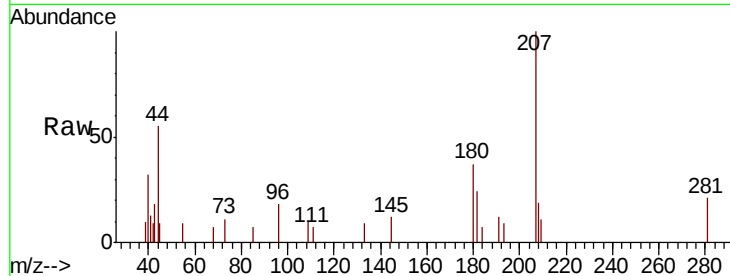




#89
 1,2,4-Trichlorobenzene
 Concen: 6.984 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051747.D
 Acq: 9 Oct 2018 13:17

Instrument :
 MSVOA_N
 ClientSampled :
 CLEARWELL

Tot Ion:180 Resp: 1251
 Ion Ratio Lower Upper
 180 100
 182 78.9 77.7 116.5
 145 36.3 23.4 35.2#



#91
 Naphthalene
 Concen: 0.285 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN051747.D
 Acq: 9 Oct 2018 13:17

Tgt Ion:128 Resp: 3611
 Ion Ratio Lower Upper
 128 100
 127 11.0 10.1 15.1
 129 7.5 8.4 12.6#

