

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052496.D
 Acq On : 27 Nov 2018 23:52
 Operator : MD\SY
 Sample : J6067-02 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2

Quant Time: Nov 28 06:18:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	169193	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	975739	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	809253	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	344224	29.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.53%
60) 4-Bromofluorobenzene	12.40	95	325397	26.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.67%
63) Toluene-d8	10.09	98	1138230	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

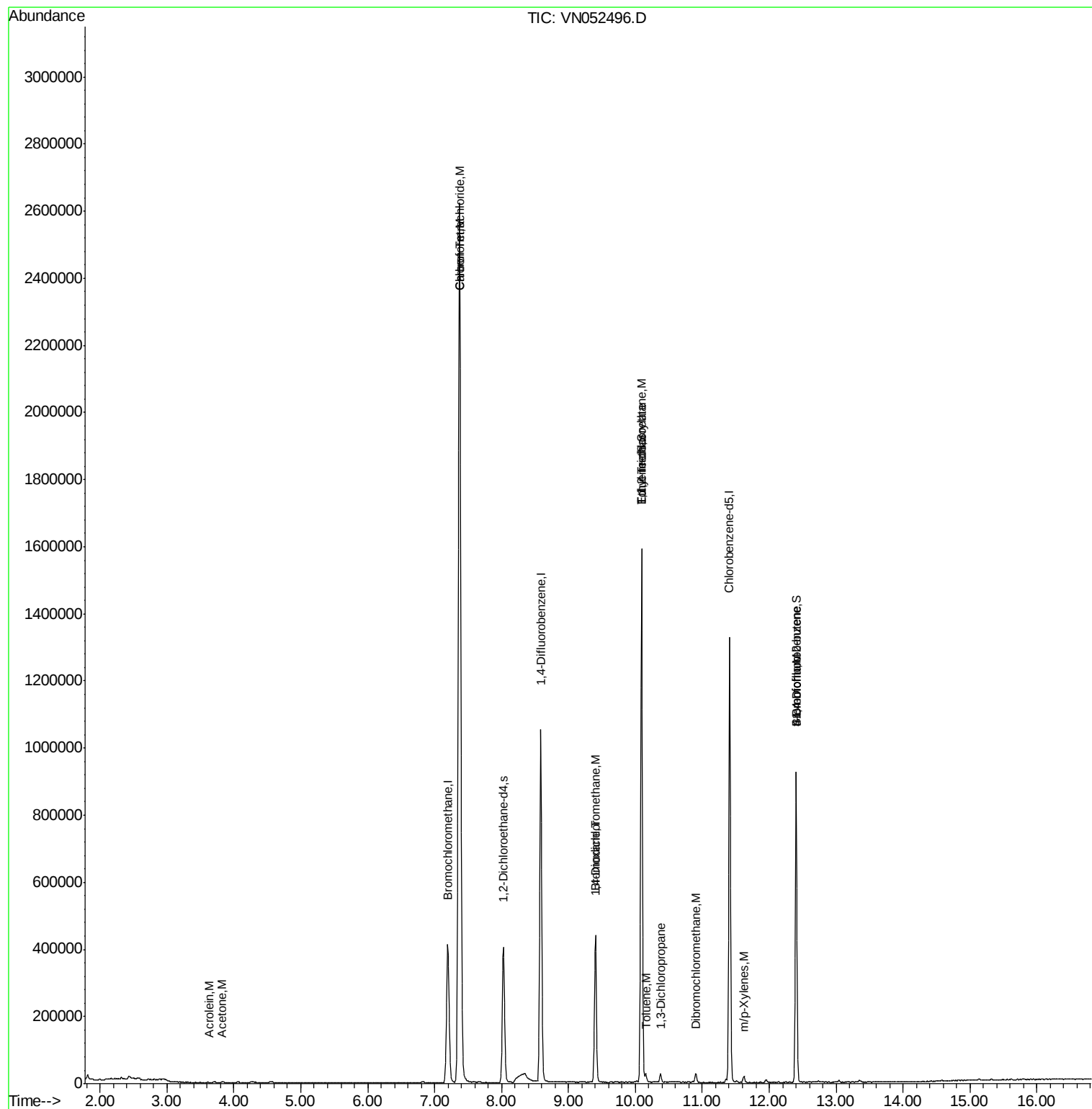
					Ovalue
13) Acrolein	3.64	56	343	0.362 ug/l	95
15) Acetone	3.82	58	524	0.589 ug/l #	36
25) Chloroform	7.37	83	2876434	150.442 ug/l	99
33) Carbon Tetrachloride	7.37	117	32395	2.388 ug/l	98
41) Bromodichloromethane	9.40	83	312832	21.819 ug/l	96
45) 1,4-Dioxane	9.39	88	97	1.192 ug/l #	5
50) 1,1,2-Trichloroethane	10.10	97	34521	3.753 ug/l #	1
51) Ethyl methacrylate	10.10	69	3412	0.295 ug/l	95
52) 1,3-Dichloropropane	10.38	76	4674	0.285 ug/l	46
53) Dibromochloromethane	10.90	129	15461	1.527 ug/l	99
56) Bromoform	12.40	173	2324	0.351 ug/l #	1
62) Toluene	10.16	91	15645	0.351 ug/l	97
67) m/p-Xylenes	11.62	106	6198	0.346 ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	156145	57.221 ug/l #	11

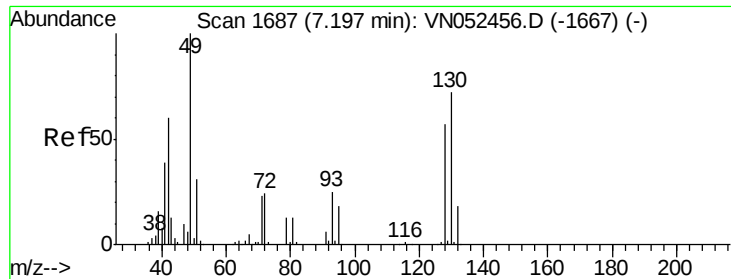
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :
MSVOA_N
ClientSampled :
14B-2

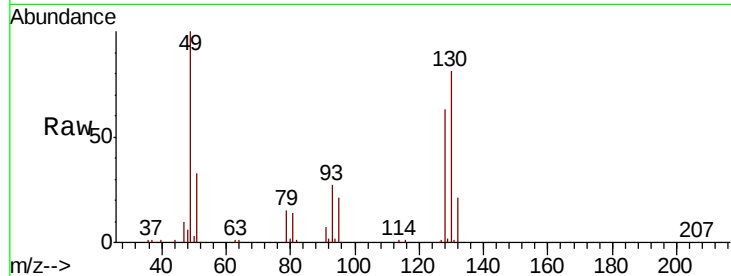
Tot Ion:128 Resp: 169193

Ion Ratio Lower Upper

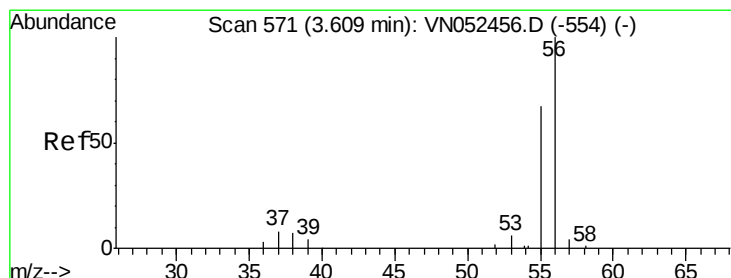
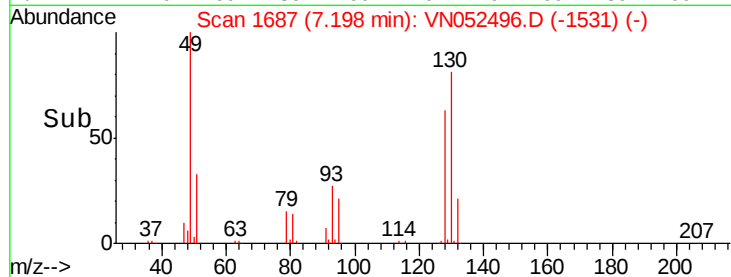
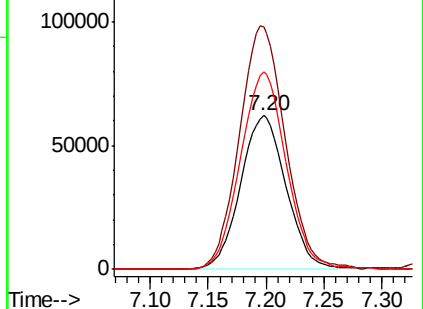
128 100

49 160.4 0.0 431.8

130 129.6 0.0 317.0



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



#13

Acrolein

Concen: 0.362 ug/l

RT: 3.64 min Scan# 579

Delta R.T. 0.03 min

Lab File: VN052496.D

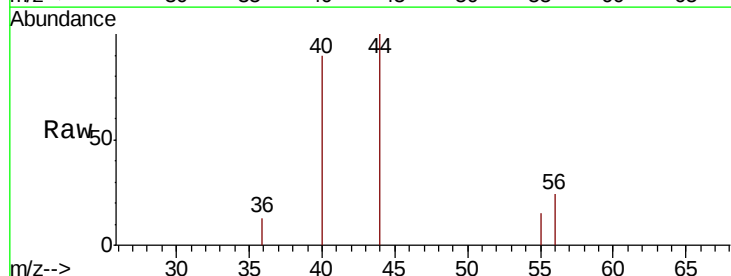
Acq: 27 Nov 2018 23:52

Tgt Ion: 56 Resp: 343

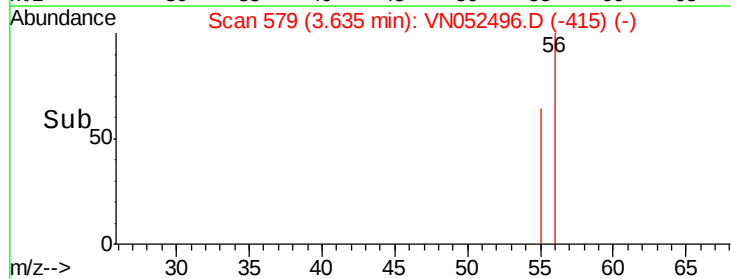
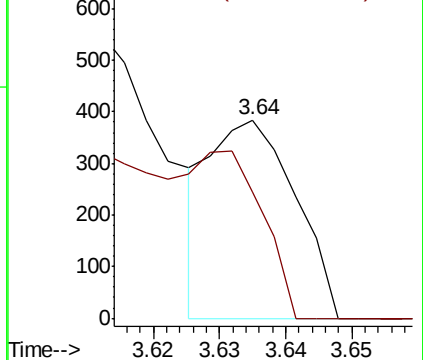
Ion Ratio Lower Upper

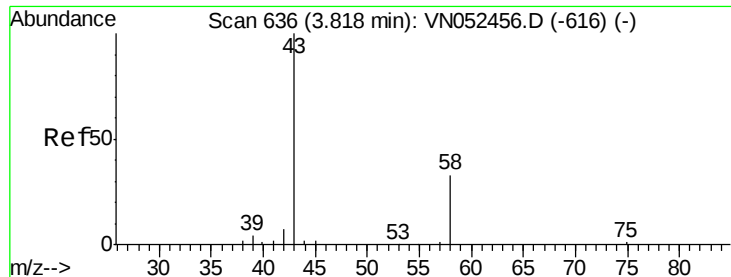
56 100

55 74.6 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.589 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampled :

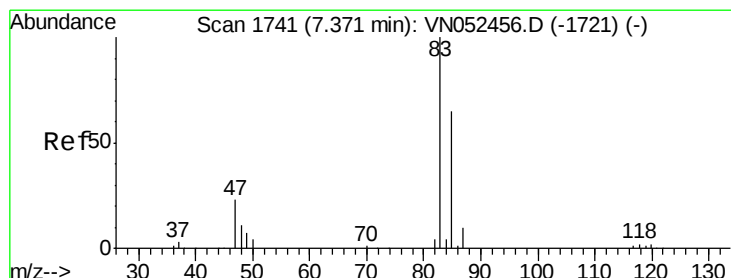
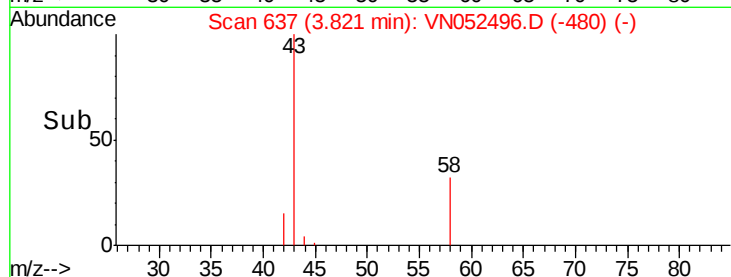
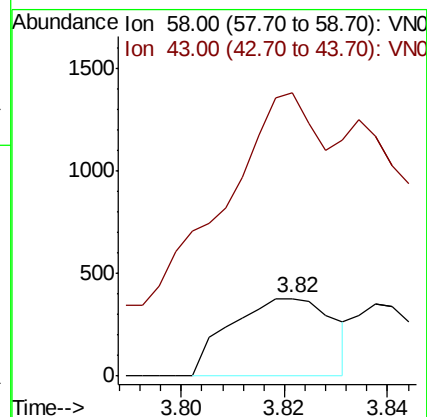
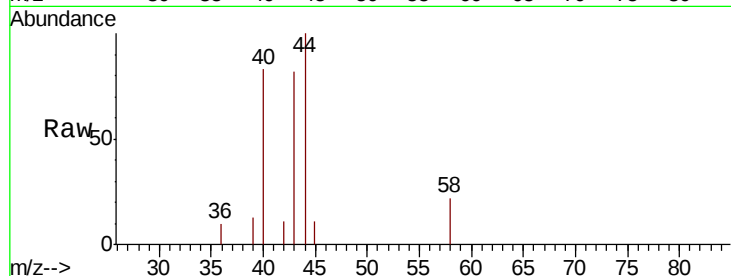
14B-2

Tot Ion: 58 Resp: 524

Ion Ratio Lower Upper

58 100

43 177.0 243.6 365.4#



#25

Chloroform

Concen: 150.442 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN052496.D

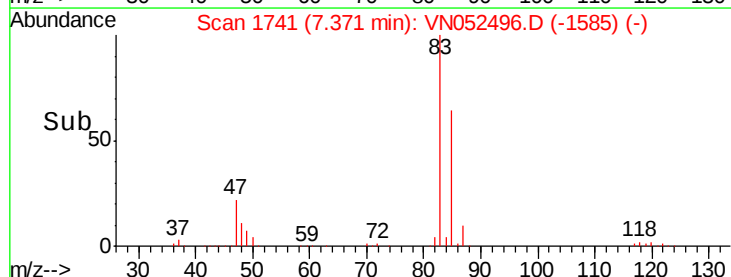
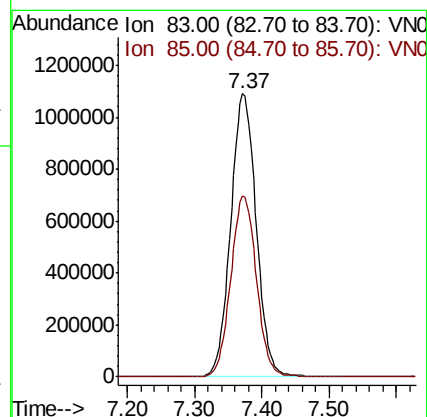
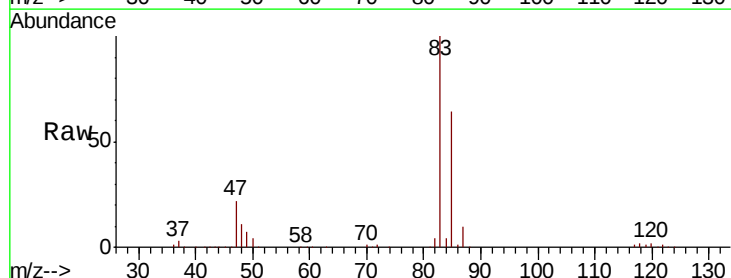
Acq: 27 Nov 2018 23:52

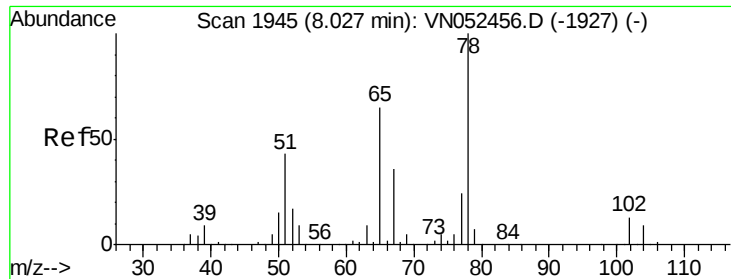
Tgt Ion: 83 Resp: 2876434

Ion Ratio Lower Upper

83 100

85 63.7 51.7 77.5





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampleId :

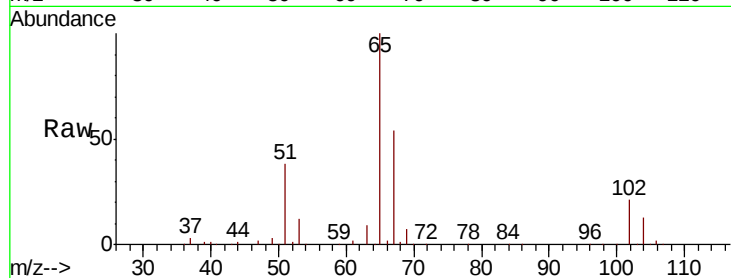
14B-2

Tot Ion: 65 Resp: 344224

Ion Ratio Lower Upper

65 100

67 54.7 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN052456.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN052456.D (-1927) (-)

8.03

150000

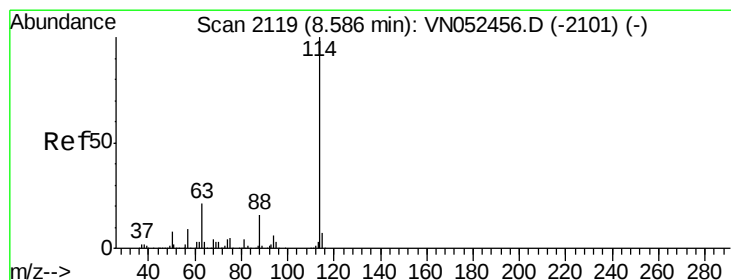
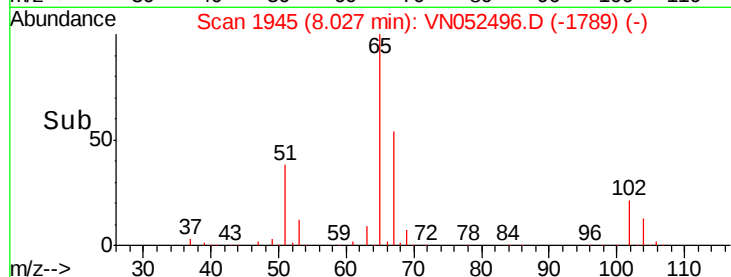
100000

50000

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: VN052496.D

Acq: 27 Nov 2018 23:52

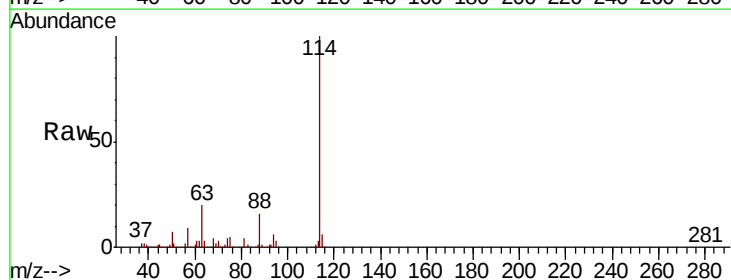
Tgt Ion: 114 Resp: 975739

Ion Ratio Lower Upper

114 100

63 20.2 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052456.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN052456.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN052456.D (-2101) (-)

8.59

600000

500000

400000

300000

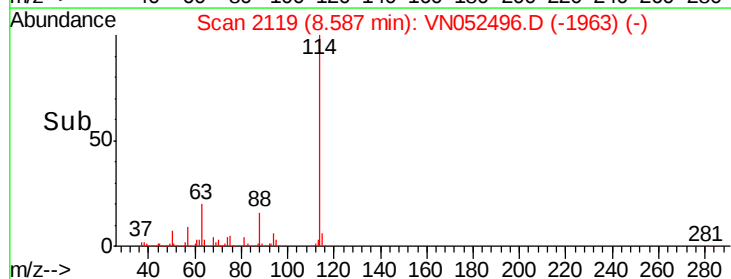
200000

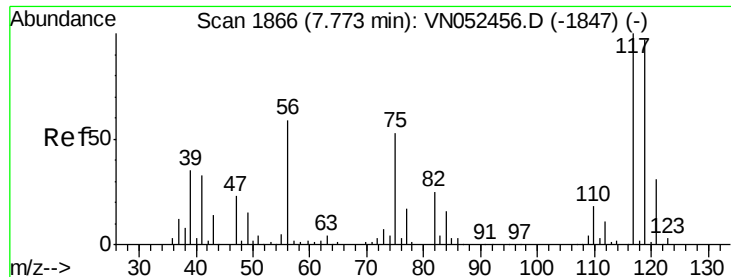
100000

0

8.50 8.55 8.60 8.65 8.70

Time-->





#33

Carbon Tetrachloride

Concen: 2.388 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.40 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampleId :

14B-2

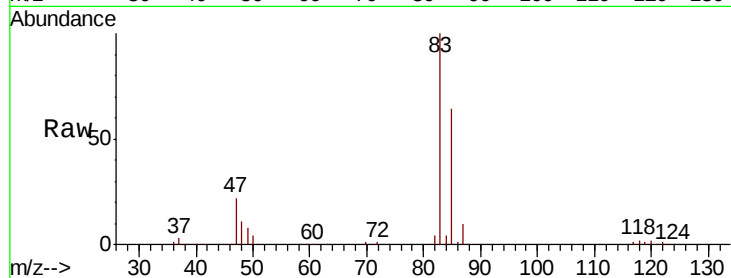
Tot Ion:117 Resp: 32395

Ion Ratio Lower Upper

117 100

119 97.0 77.3 115.9

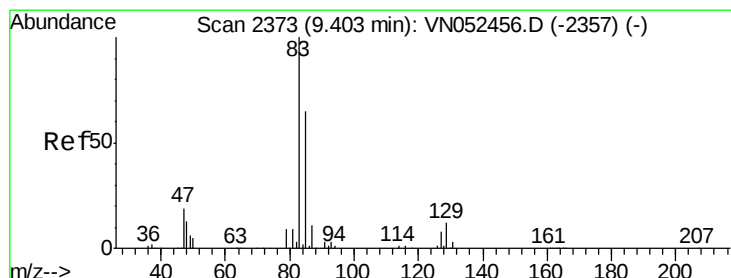
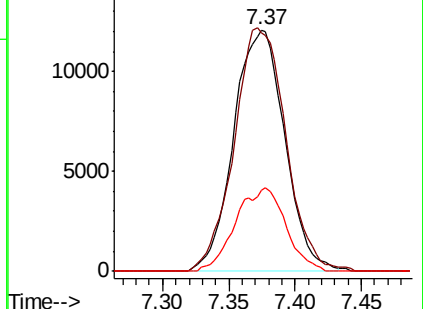
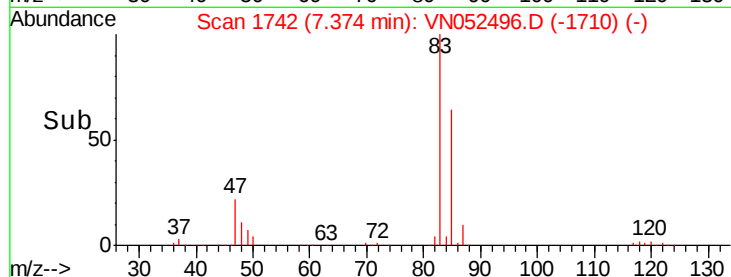
121 33.8 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#41

Bromodichloromethane

Concen: 21.819 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

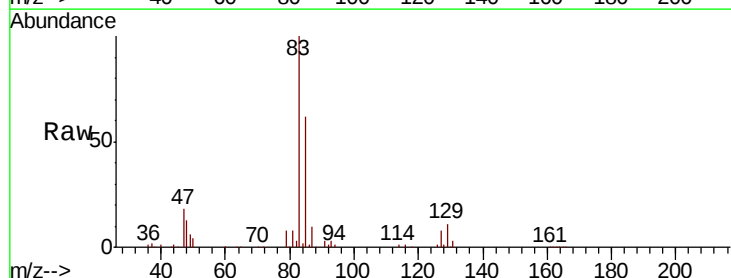
Tgt Ion: 83 Resp: 312832

Ion Ratio Lower Upper

83 100

85 61.7 52.4 78.6

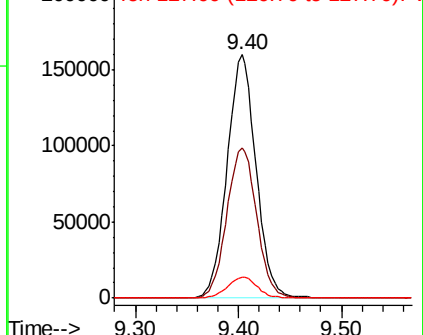
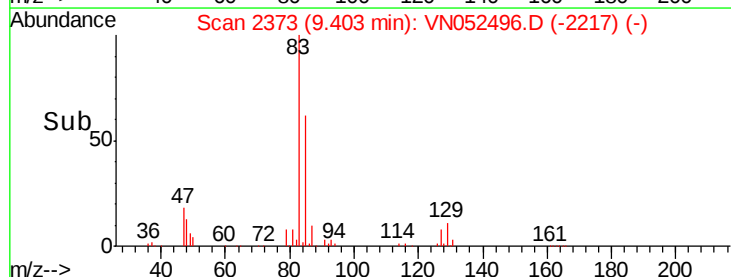
127 8.5 6.6 9.8

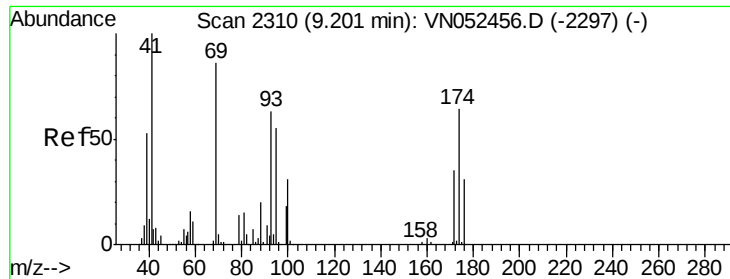


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 127.00 (126.70 to 127.70): V





#45

1,4-Dioxane

Concen: 1.192 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.19 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampled :

14B-2

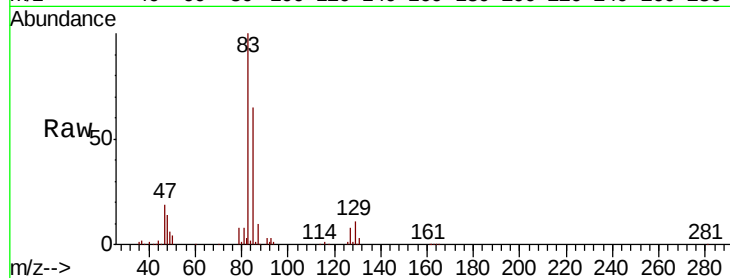
Tot Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 101.0 29.5 44.3#

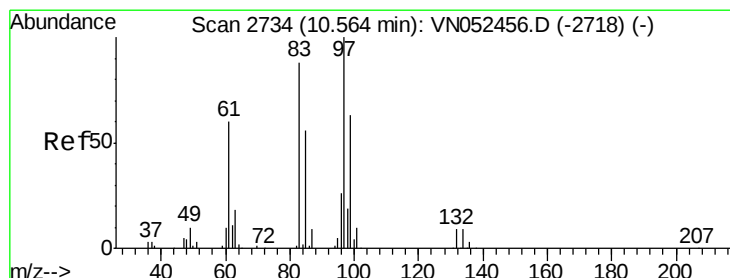
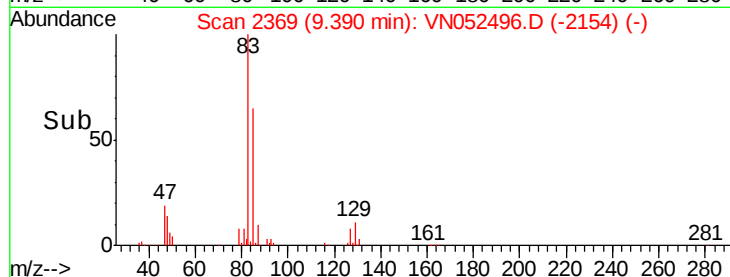
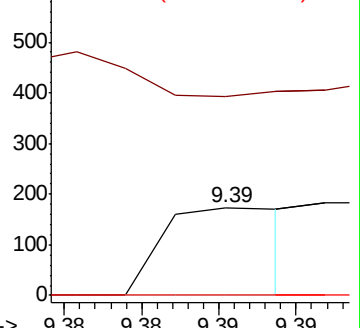
58 0.0 61.5 92.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

1,1,2-Trichloroethane

Concen: 3.753 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Tgt Ion: 97 Resp: 34521

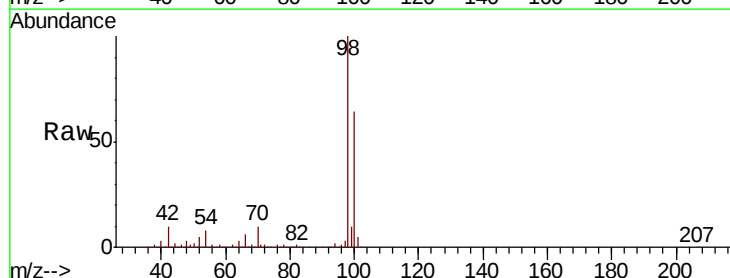
Ion Ratio Lower Upper

97 100

83 1.8 70.4 105.6#

85 0.0 45.0 67.6#

99 285.7 50.2 75.2#

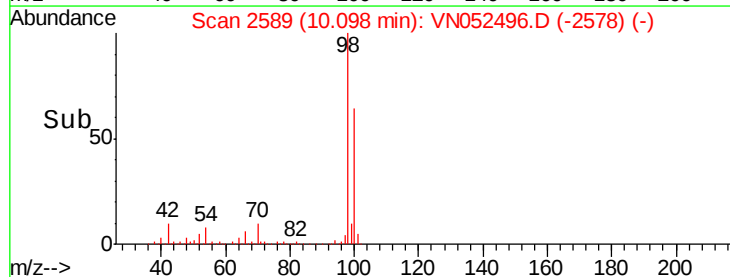
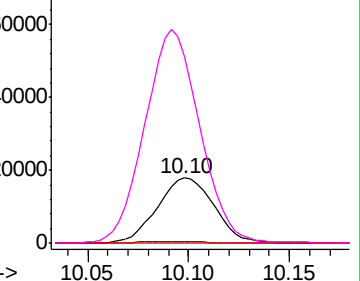


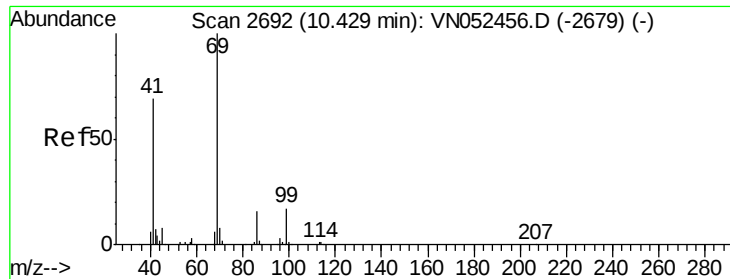
Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 0.295 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampled :

14B-2

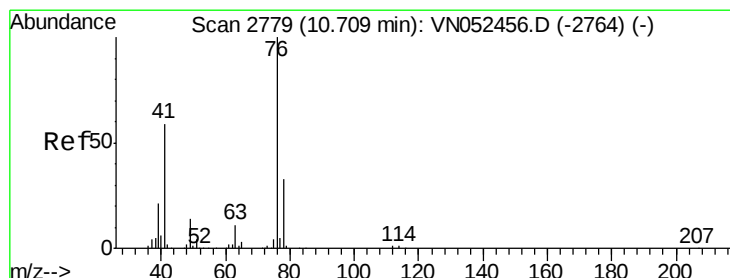
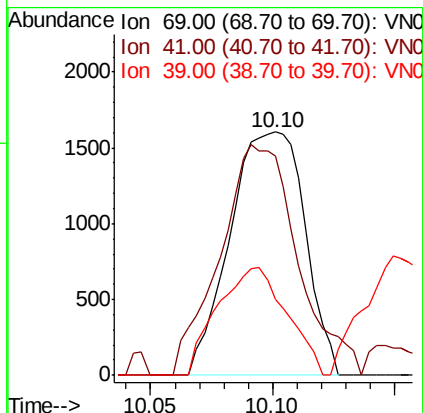
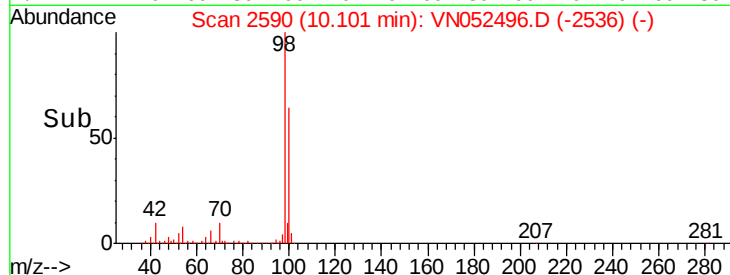
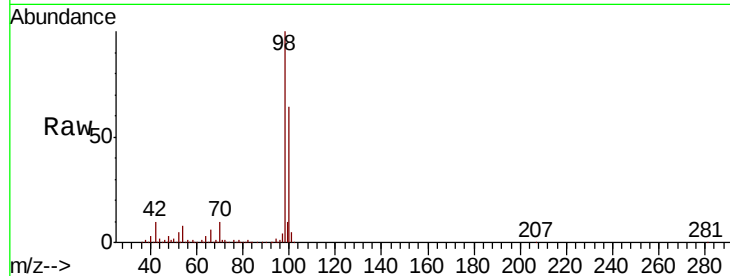
Tot Ion: 69 Resp: 3412

Ion Ratio Lower Upper

69 100

41 74.0 34.4 103.3

39 31.2 16.4 49.2



#52

1,3-Dichloropropane

Concen: 0.285 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.33 min

Lab File: VN052496.D

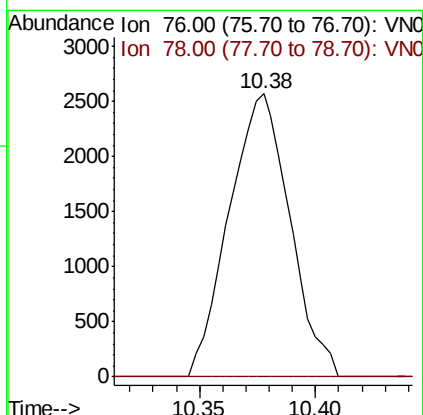
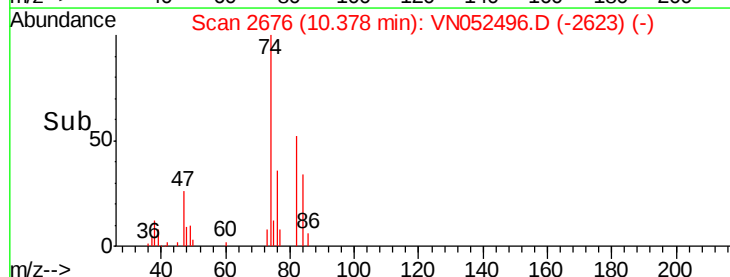
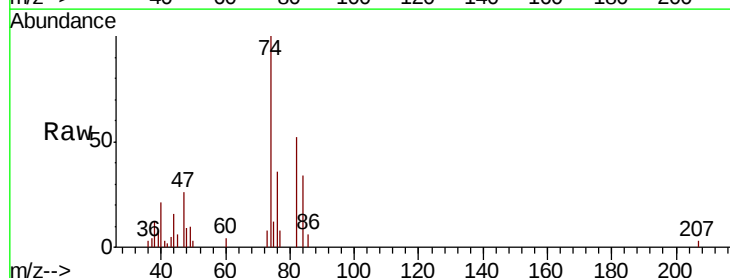
Acq: 27 Nov 2018 23:52

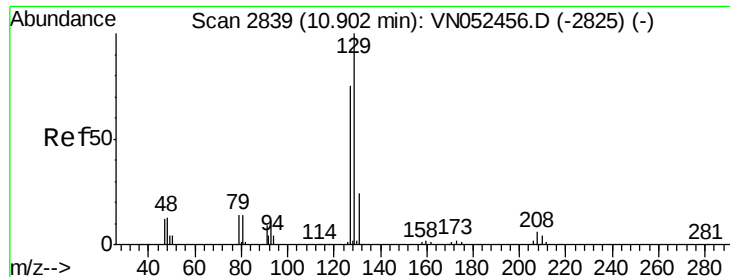
Tgt Ion: 76 Resp: 4674

Ion Ratio Lower Upper

76 100

78 2.3 0.0 64.8

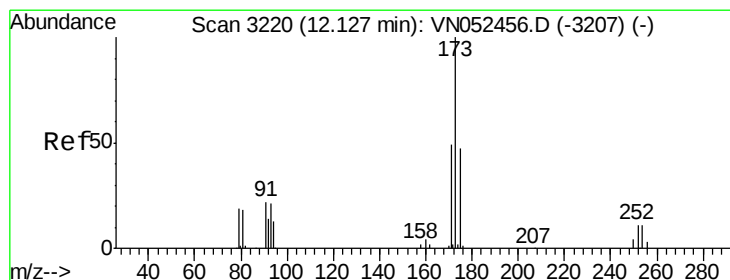
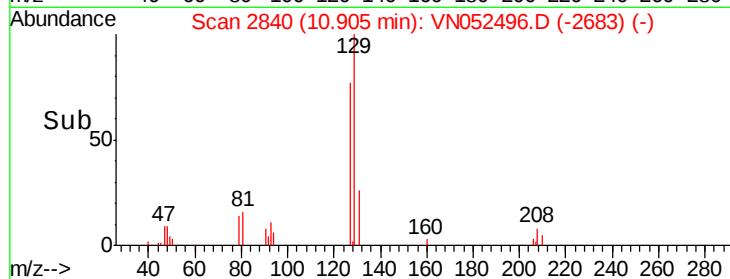
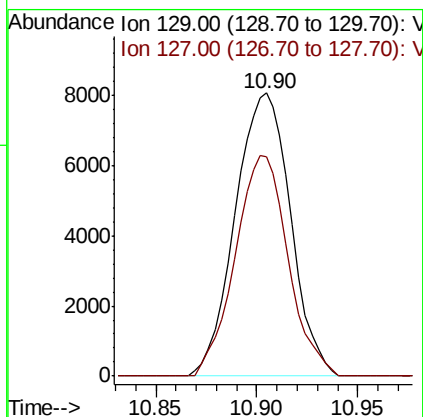
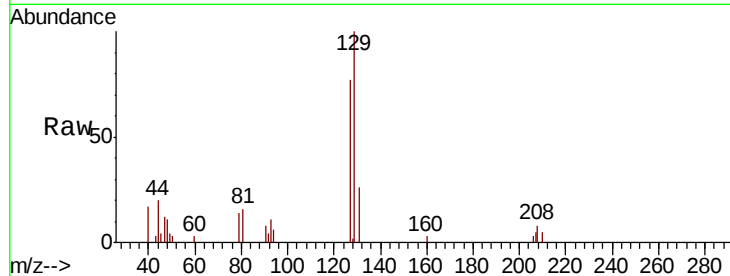




#53
Dibromochloromethane
Concen: 1.527 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

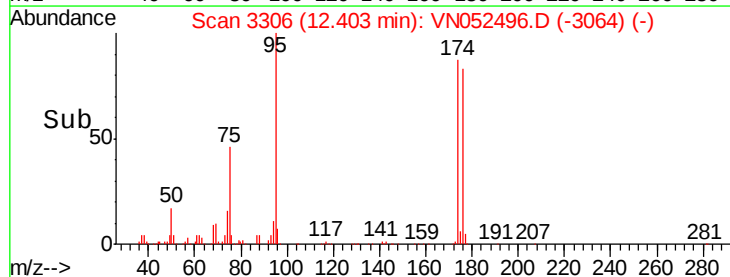
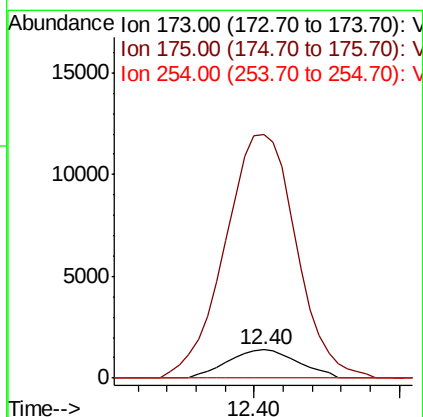
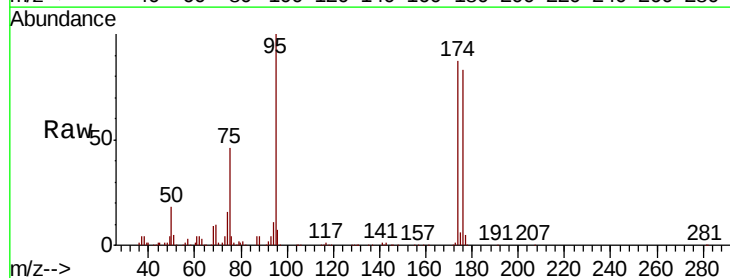
Instrument :
MSVOA_N
ClientSampleId :
14B-2

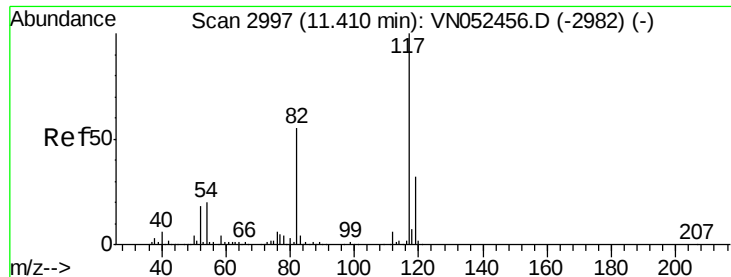
Tot Ion:129 Resp: 15461
Ion Ratio Lower Upper
129 100
127 74.5 37.6 112.8



#56
Bromoform
Concen: 0.351 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

Tgt Ion:173 Resp: 2324
Ion Ratio Lower Upper
173 100
175 881.4 38.7 58.1#
254 0.0 8.4 12.6#

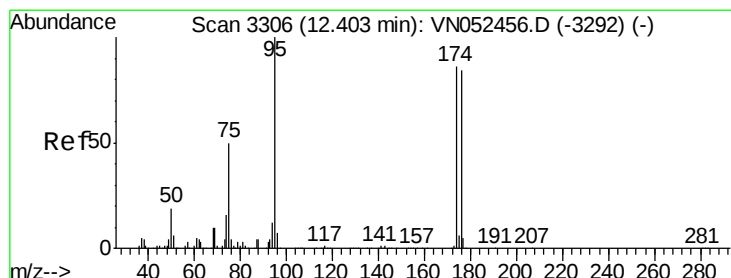
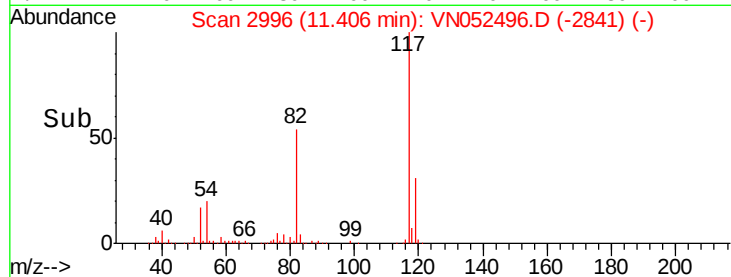
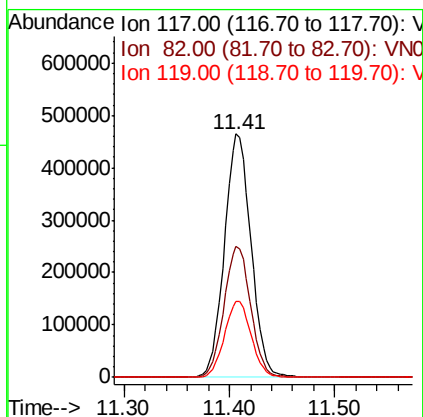
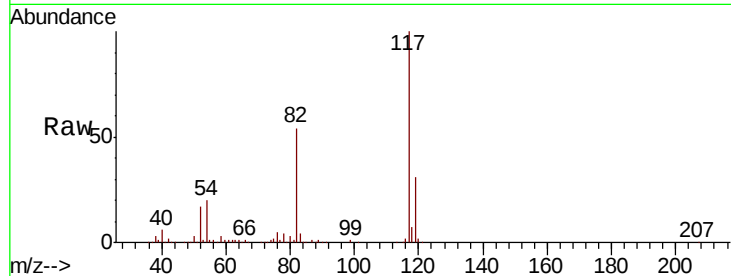




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

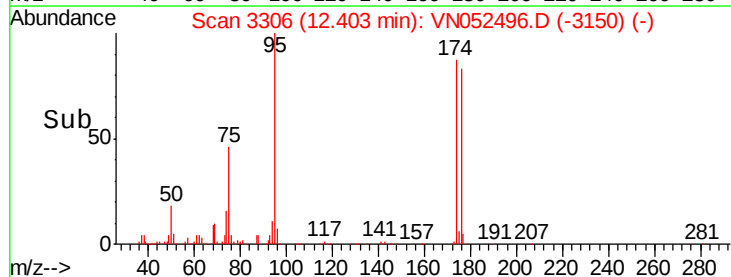
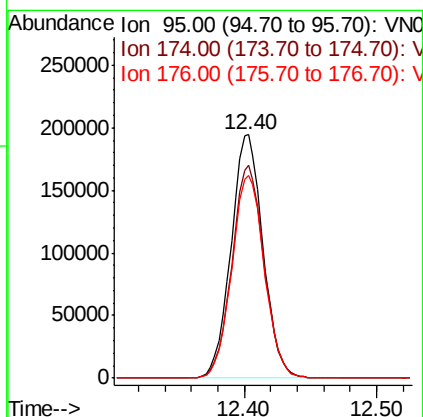
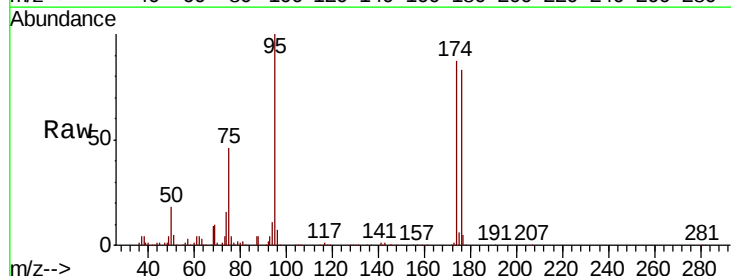
Instrument :
MSVOA_N
ClientSampled :
14B-2

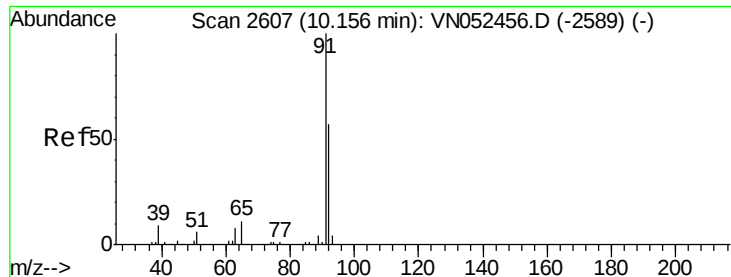
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.2	66.2
119	31.4	25.4	38.2



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.8	67.9	101.9
176	84.7	66.4	99.6





#62

Toluene

Concen: 0.351 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052496.D

Acq: 27 Nov 2018 23:52

Instrument :

MSVOA_N

ClientSampleId :

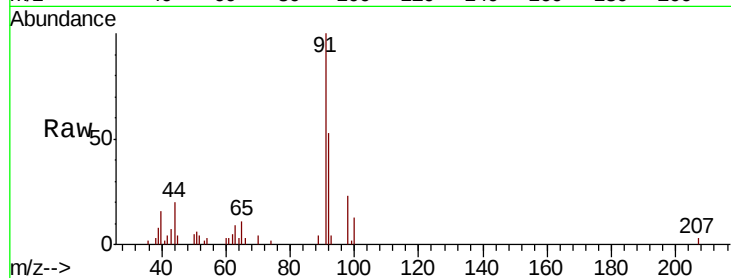
14B-2

Tot Ion: 91 Resp: 15645

Ion Ratio Lower Upper

91 100

92 54.7 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN052456.D (-2589) (-)

Ion 92.00 (91.70 to 92.70): VN052456.D (-2589) (-)

10.16

10000

8000

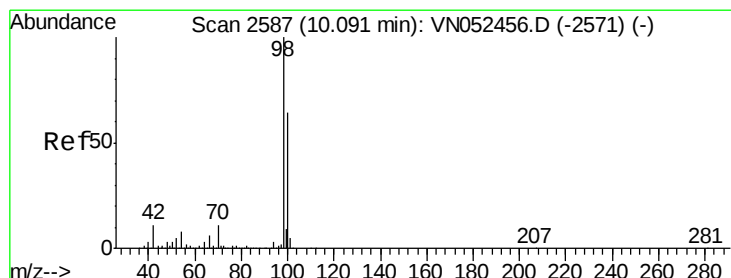
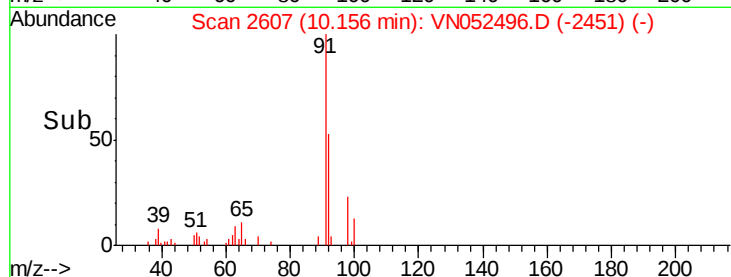
6000

4000

2000

0

Time-->



#63

Toluene-d8

Concen: 0.351 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052496.D

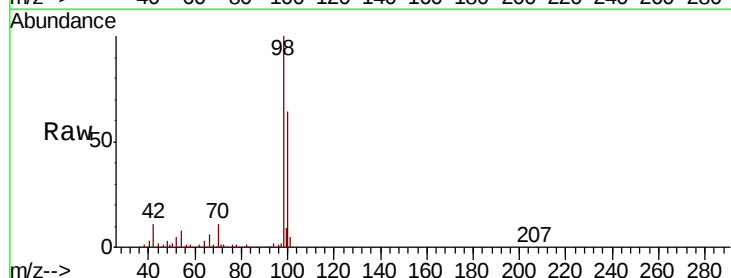
Acq: 27 Nov 2018 23:52

Tgt Ion: 98 Resp: 1138230

Ion Ratio Lower Upper

98 100

100 64.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN052456.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN052456.D (-2571) (-)

10.09

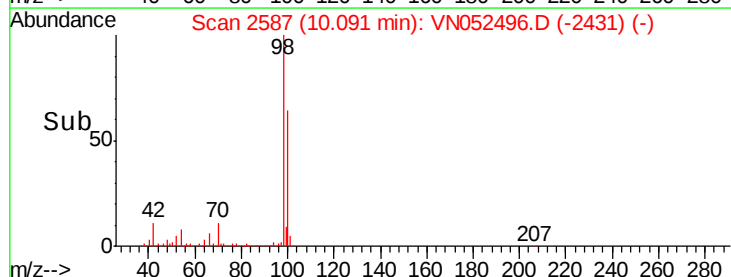
600000

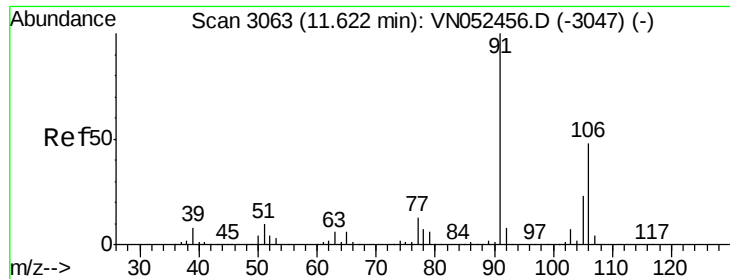
400000

200000

0

Time-->

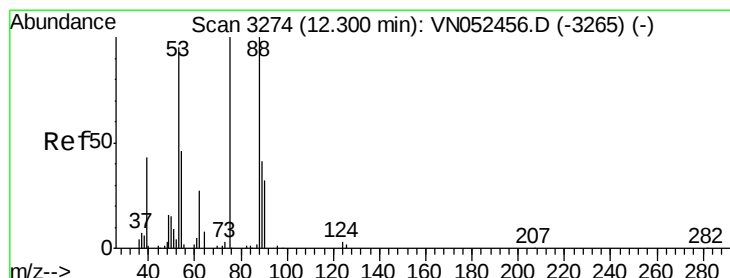
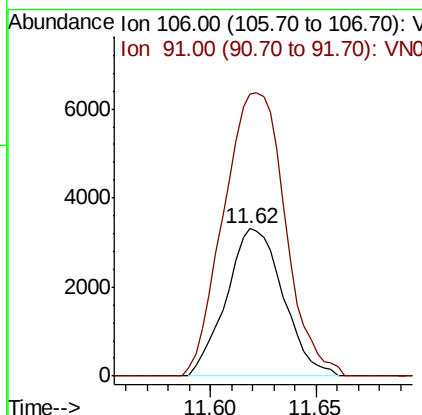
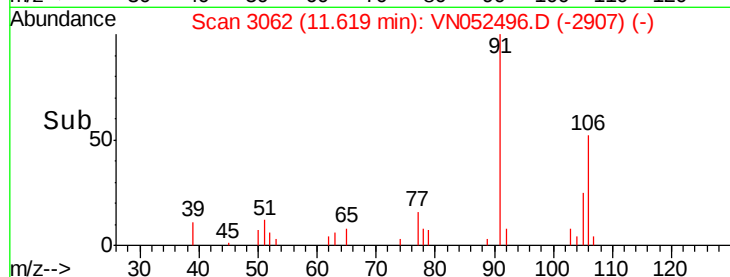
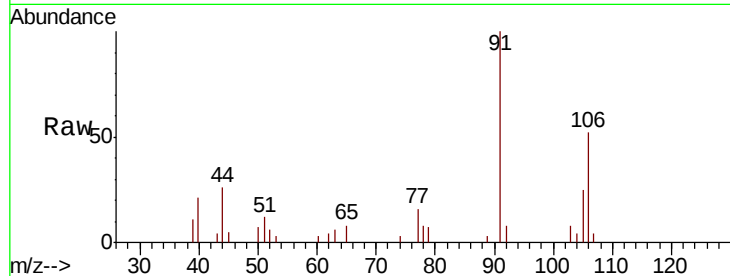




#67
m/p-Xvlenes
Concen: 0.346 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

Instrument :
MSVOA_N
ClientSampled :
14B-2

Tot Ion:106 Resp: 6198
Ion Ratio Lower Upper
106 100
91 208.3 163.9 245.9



#77
t-1,4-Dichloro-2-butene
Concen: 57.221 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN052496.D
Acq: 27 Nov 2018 23:52

Tgt Ion: 75 Resp: 156145
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

