

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052495.D
 Acq On : 27 Nov 2018 23:25
 Operator : MD\SY
 Sample : J6067-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: Nov 28 06:18:36 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	174800	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1013494	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	831590	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	355900	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%
60) 4-Bromofluorobenzene	12.40	95	337879	26.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.57%
63) Toluene-d8	10.09	98	1171709	30.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.30%

Target Compounds

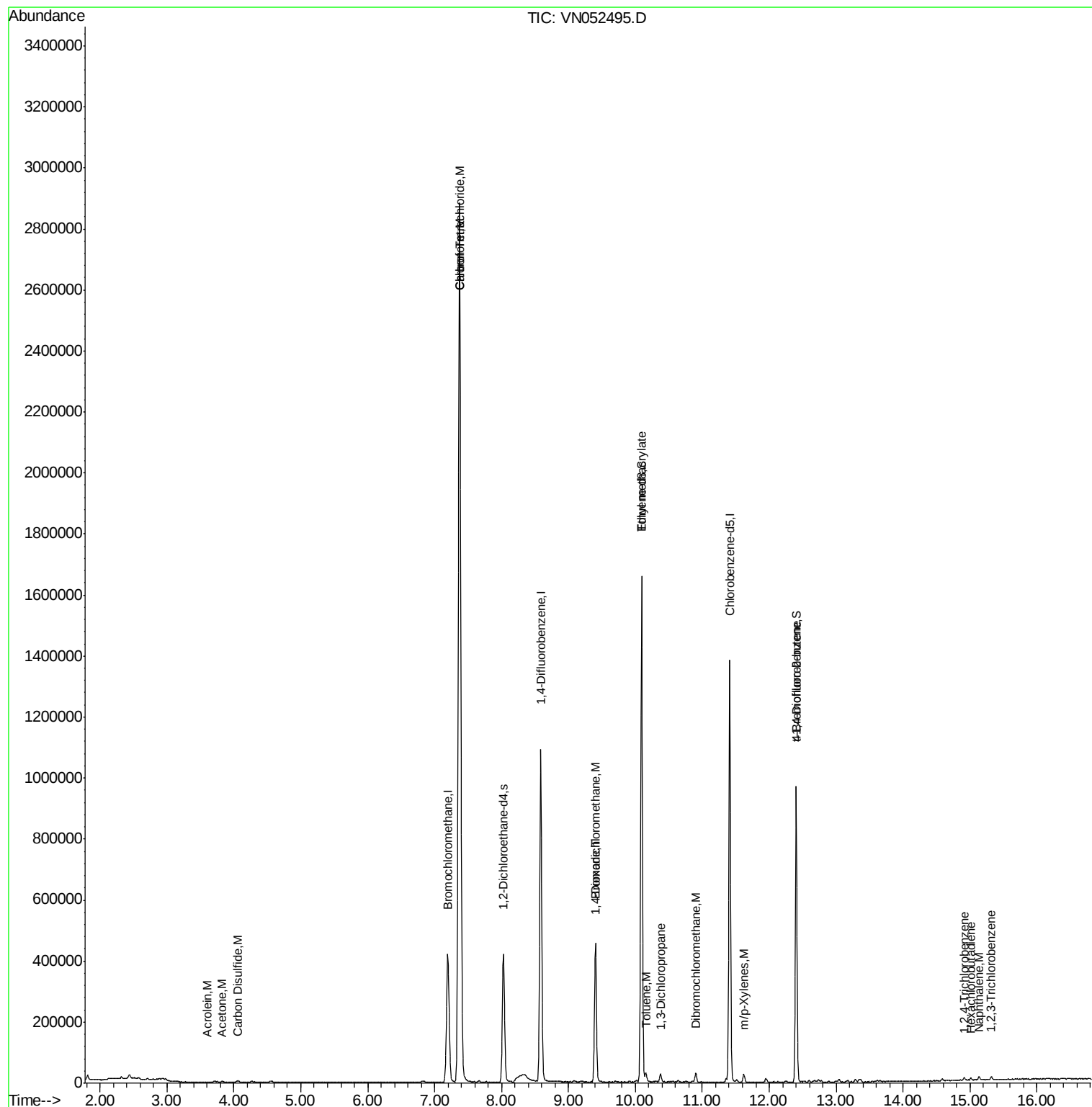
					Ovalue	
13) Acrolein	3.60	56	567	0.580	ug/l	# 41
15) Acetone	3.82	58	346	0.376	ug/l	74
16) Carbon Disulfide	4.06	76	8604	0.277	ug/l	95
25) Chloroform	7.37	83	3079913	155.917	ug/l	99
33) Carbon Tetrachloride	7.37	117	34792	2.469	ug/l	92
41) Bromodichloromethane	9.40	83	330685	22.205	ug/l	98
45) 1,4-Dioxane	9.39	88	129	1.527	ug/l	# 11
51) Ethyl methacrylate	10.10	69	3068	0.256	ug/l	90
52) 1,3-Dichloropropane	10.37	76	4605	0.271	ug/l	45
53) Dibromochloromethane	10.90	129	15575	1.481	ug/l	95
62) Toluene	10.16	91	19647	0.429	ug/l	97
67) m/p-Xylenes	11.62	106	8357	0.454	ug/l	100
77) t-1,4-Dichloro-2-butene	12.40	75	161819	57.708	ug/l	# 11
89) 1,2,4-Trichlorobenzene	14.91	180	3486	0.368	ug/l	# 79
90) Hexachlorobutadiene	15.01	225	1502	0.242	ug/l	72
91) Naphthalene	15.14	128	9875	0.516	ug/l	97
92) 1,2,3-Trichlorobenzene	15.32	180	3160	0.362	ug/l	78

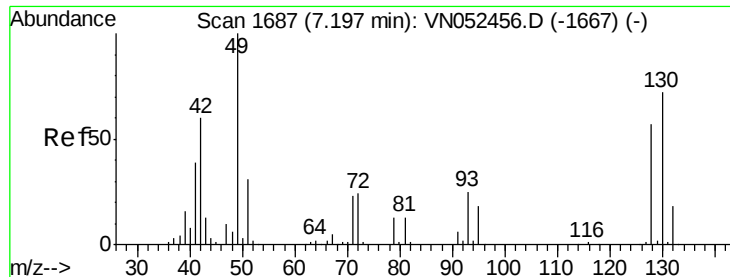
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

14B-1

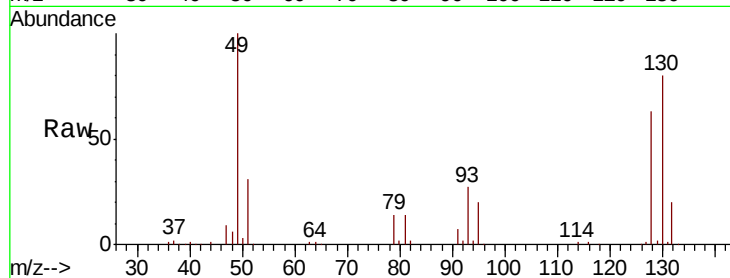
Tot Ion:128 Resp: 174800

Ion Ratio Lower Upper

128 100

49 161.0 0.0 431.8

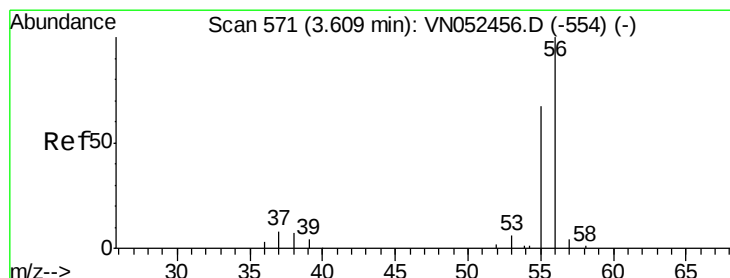
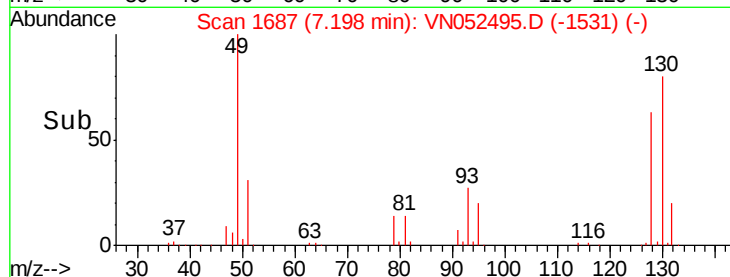
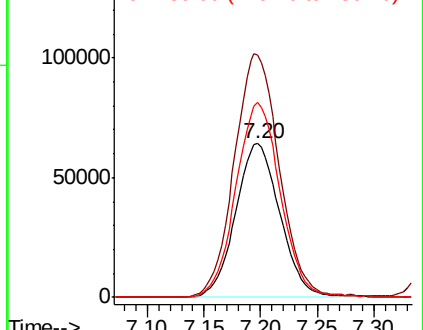
130 127.6 0.0 317.0



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: 0.580 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052495.D

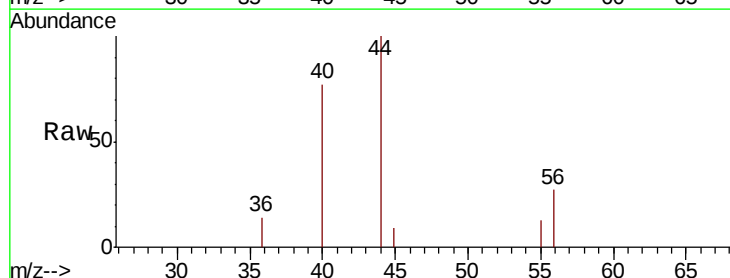
Acq: 27 Nov 2018 23:25

Tgt Ion: 56 Resp: 567

Ion Ratio Lower Upper

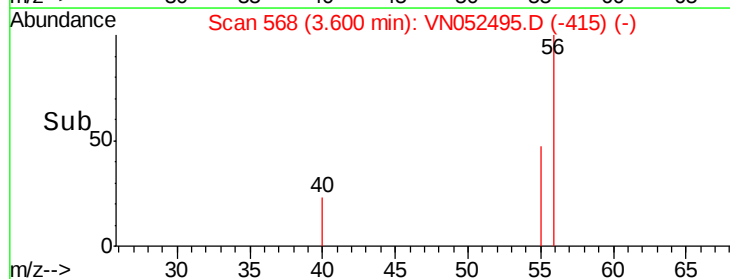
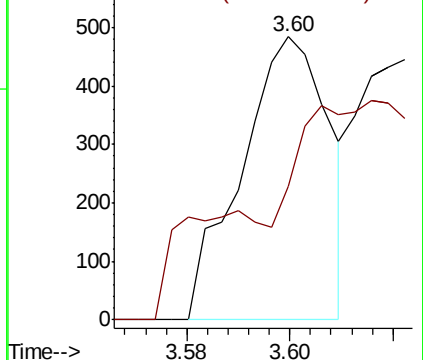
56 100

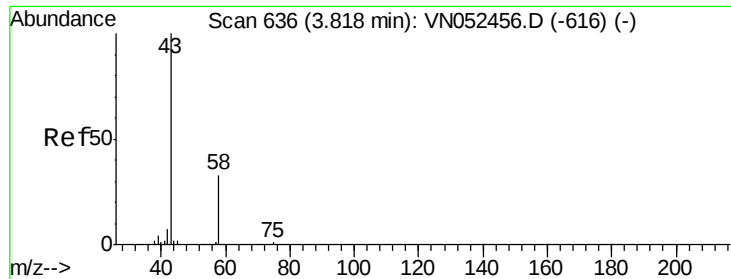
55 21.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.376 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

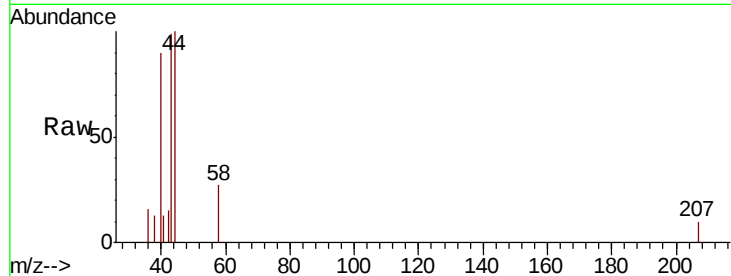
14B-1

Tot Ion: 58 Resp: 346

Ion Ratio Lower Upper

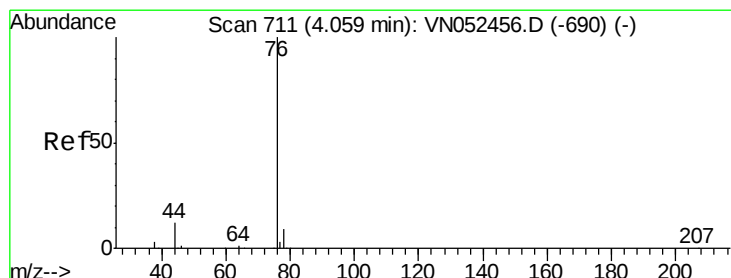
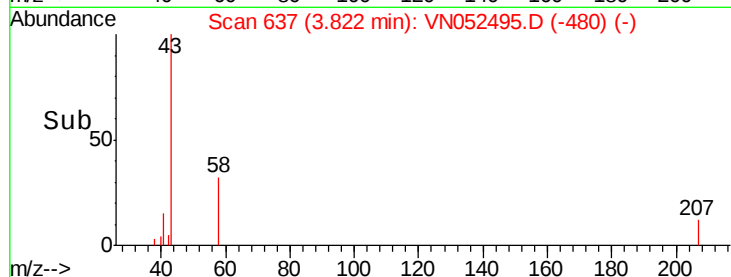
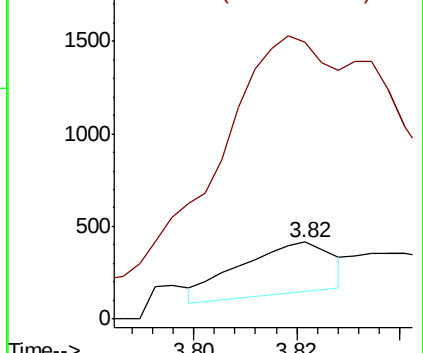
58 100

43 356.0 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.277 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052495.D

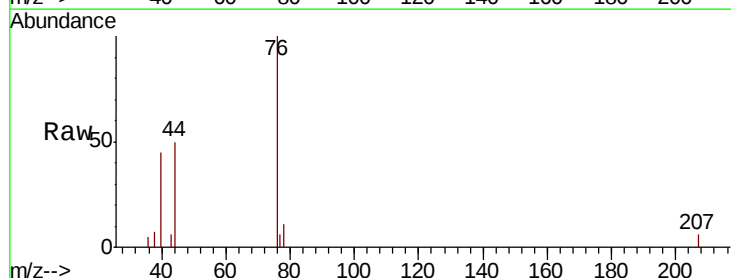
Acq: 27 Nov 2018 23:25

Tgt Ion: 76 Resp: 8604

Ion Ratio Lower Upper

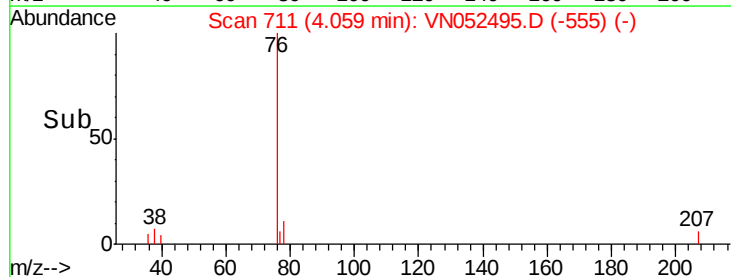
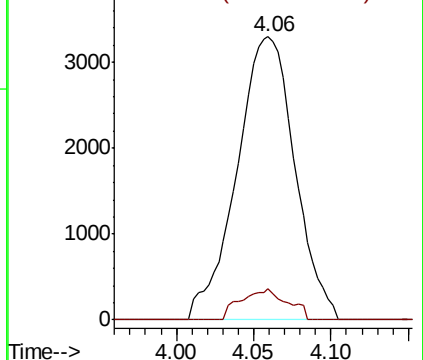
76 100

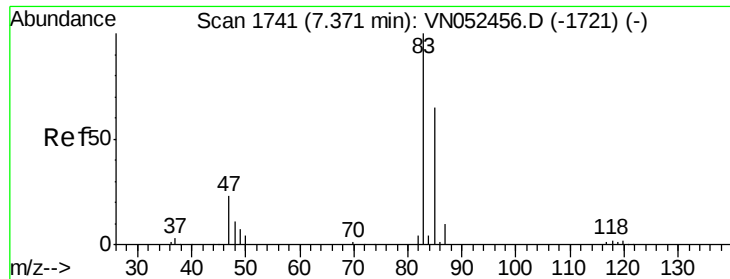
78 10.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

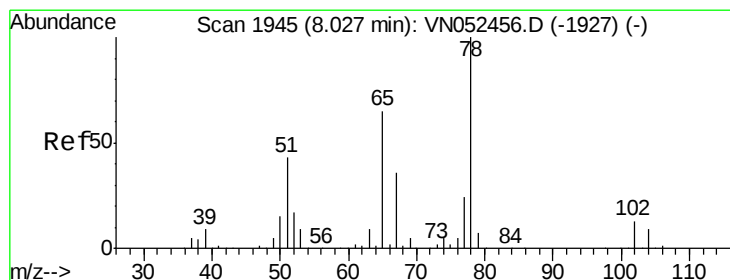
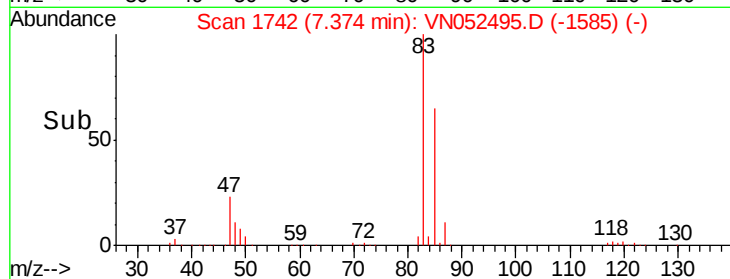
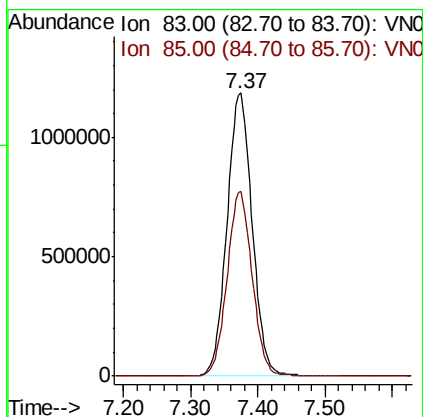
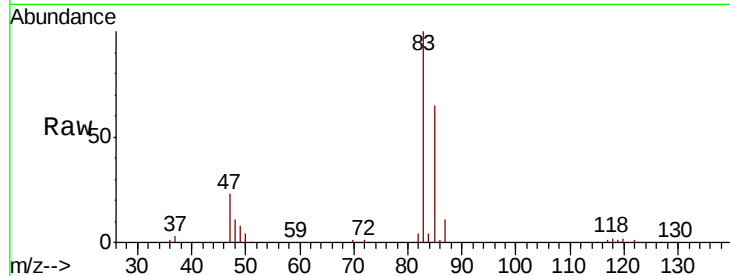




#25
Chloroform
Concen: 155.917 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

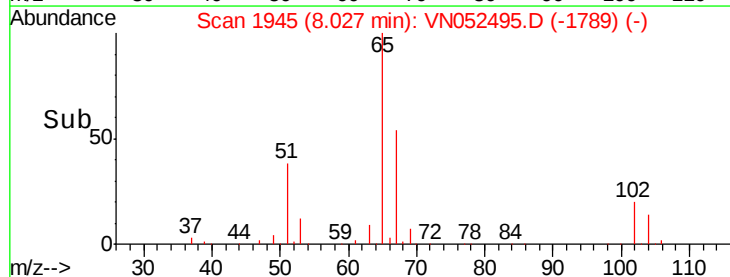
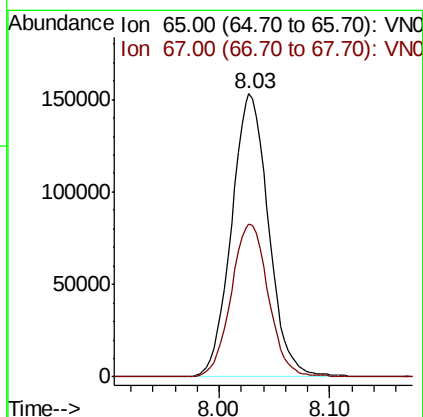
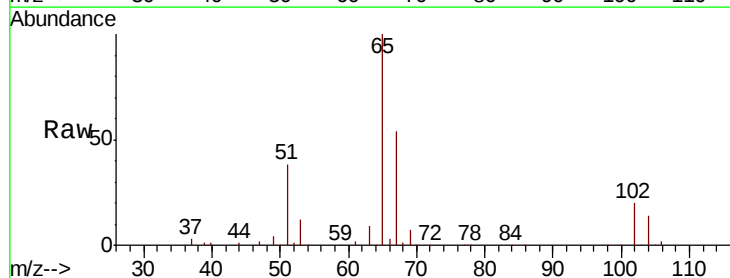
Instrument :
MSVOA_N
ClientSampleId :
14B-1

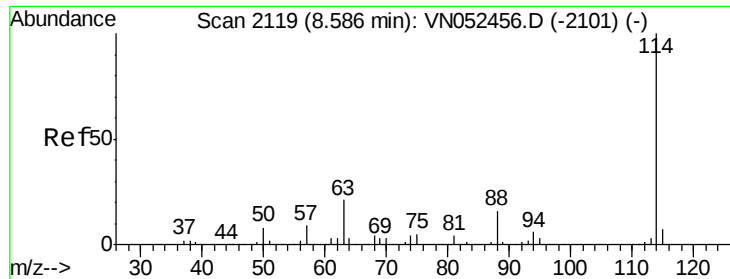
Tot Ion: 83 Resp: 3079913
Ion Ratio Lower Upper
83 100
85 65.3 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

Tgt Ion: 65 Resp: 355900
Ion Ratio Lower Upper
65 100
67 54.2 44.6 66.8

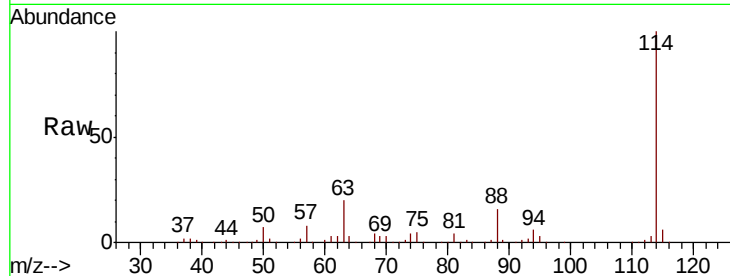




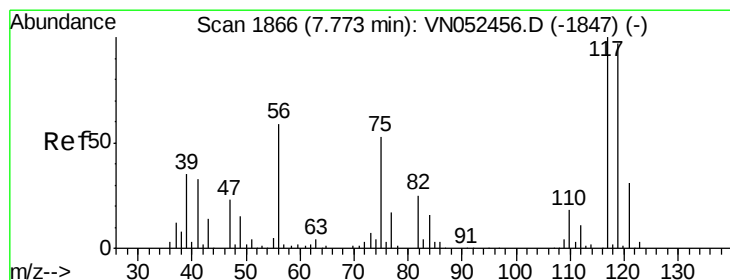
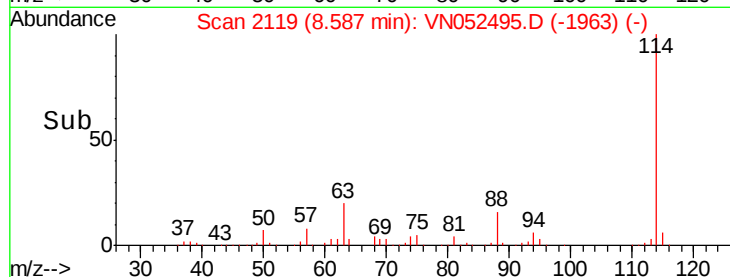
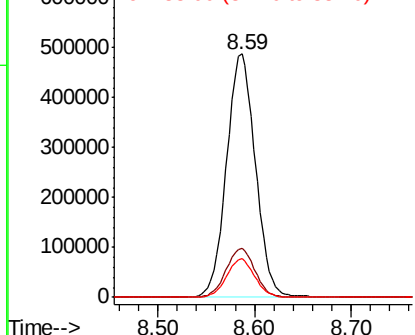
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

Instrument :
MSVOA_N
ClientSampleId :
14B-1

Tot Ion:114 Resp: 1013494
Ion Ratio Lower Upper
114 100
63 20.1 16.9 25.3
88 15.4 12.8 19.2

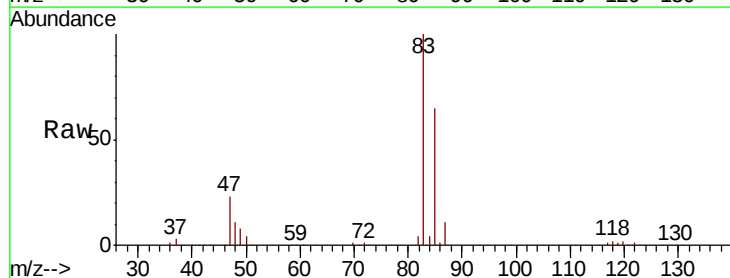


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): V
Ion 88.00 (87.70 to 88.70): V

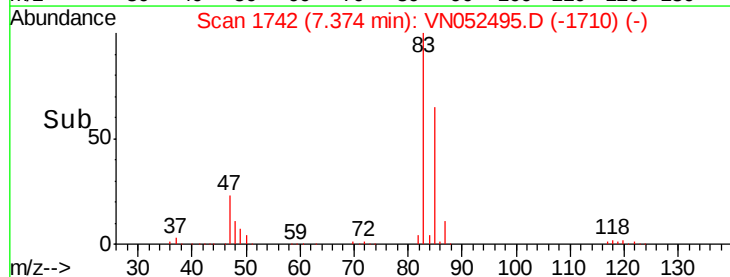
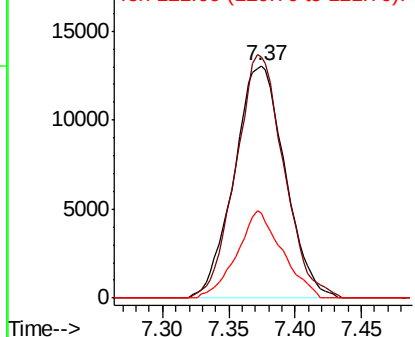


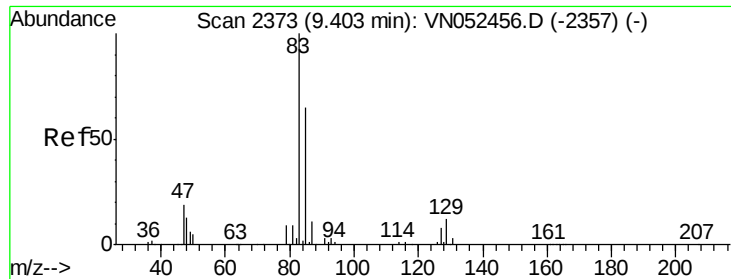
#33
Carbon Tetrachloride
Concen: 2.469 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.40 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

Tgt Ion:117 Resp: 34792
Ion Ratio Lower Upper
117 100
119 103.8 77.3 115.9
121 36.5 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: 22.205 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

14B-1

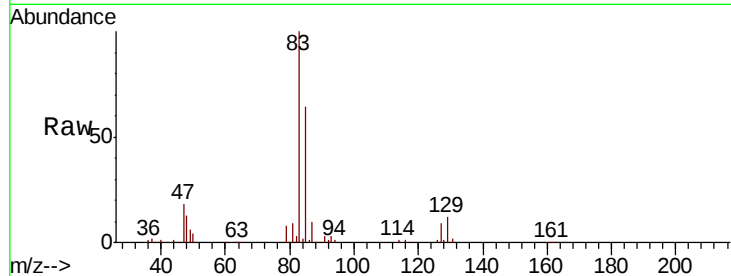
Tot Ion: 83 Resp: 330685

Ion Ratio Lower Upper

83 100

85 63.9 52.4 78.6

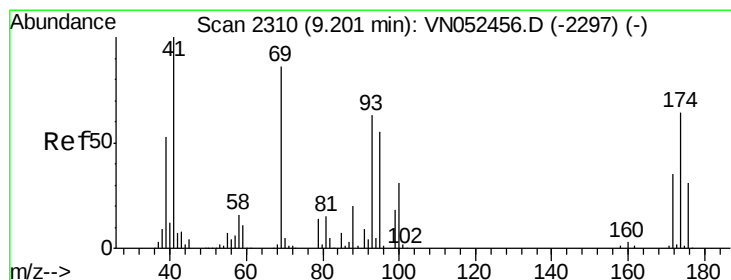
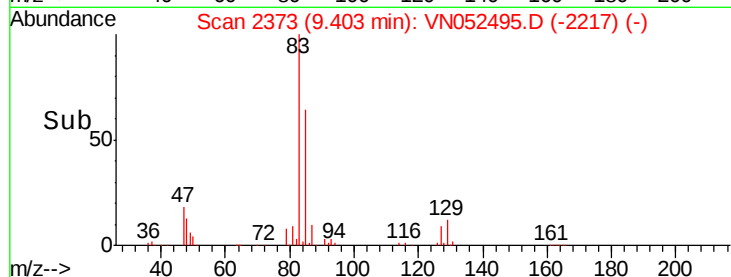
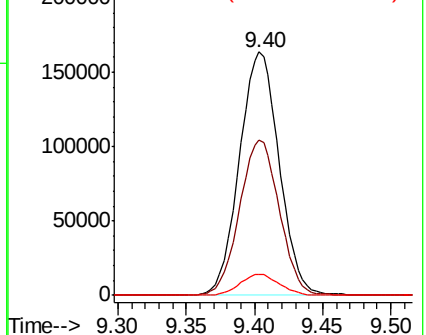
127 8.8 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 1.527 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. 0.19 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

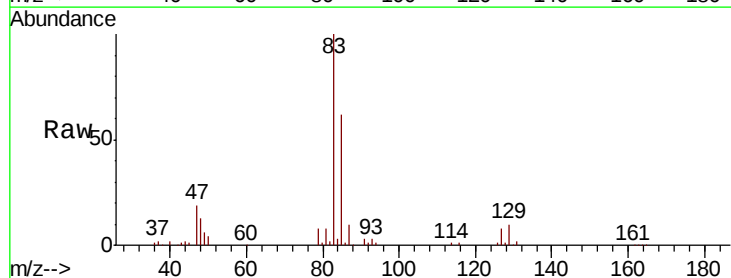
Tgt Ion: 88 Resp: 129

Ion Ratio Lower Upper

88 100

43 89.9 29.5 44.3#

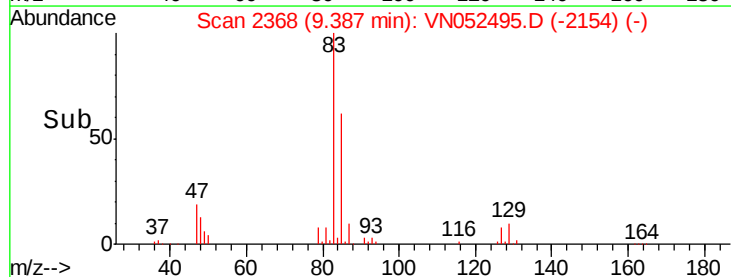
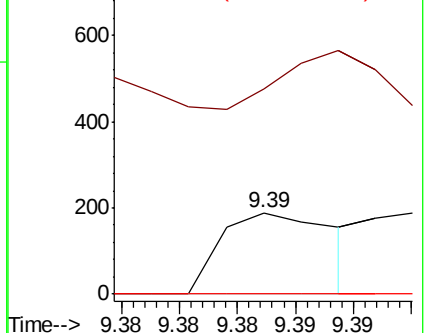
58 0.0 61.5 92.3#

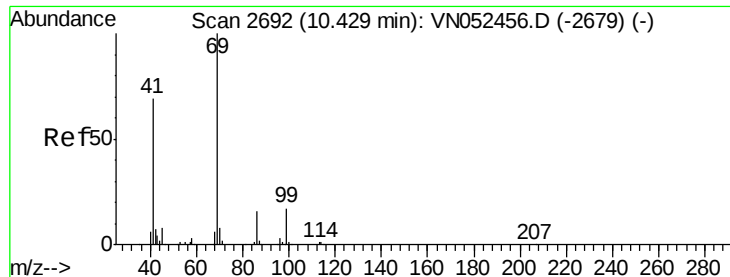


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#51

Ethyl methacrylate

Concen: 0.256 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

14B-1

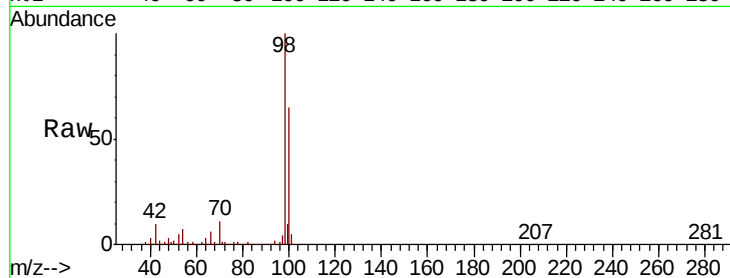
Tot Ion: 69 Resp: 3068

Ion Ratio Lower Upper

69 100

41 72.5 34.4 103.3

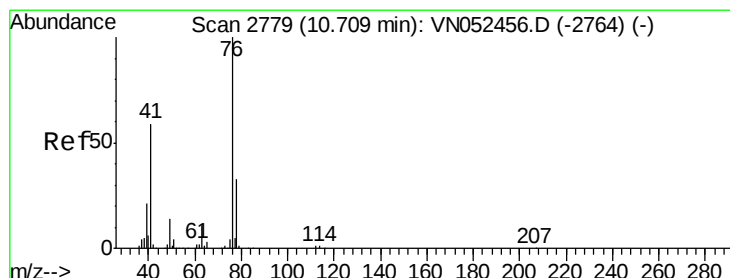
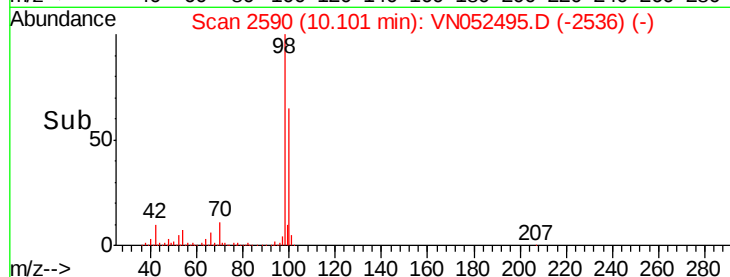
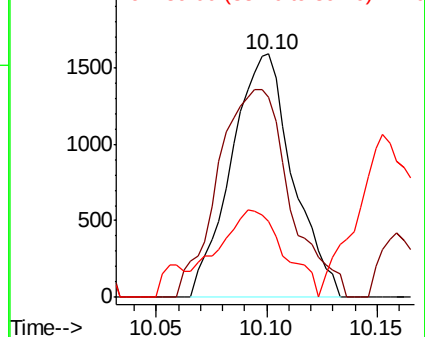
39 20.4 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 0.271 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.34 min

Lab File: VN052495.D

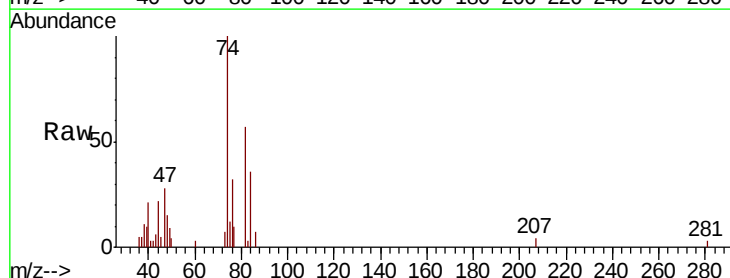
Acq: 27 Nov 2018 23:25

Tgt Ion: 76 Resp: 4605

Ion Ratio Lower Upper

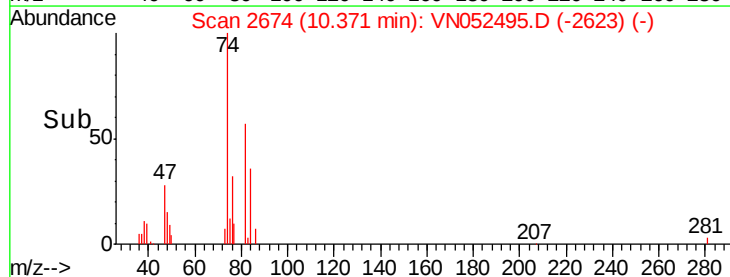
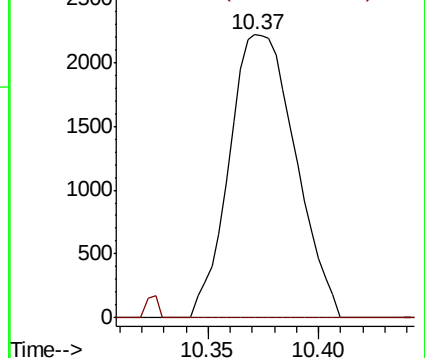
76 100

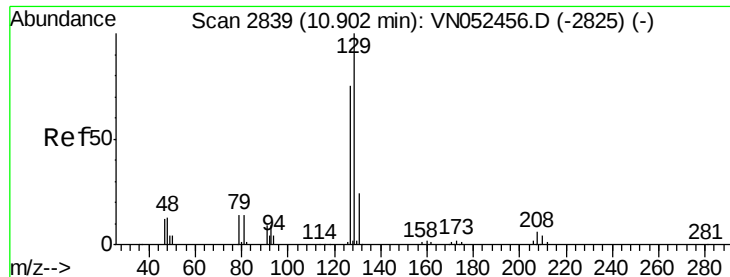
78 1.4 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 1.481 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

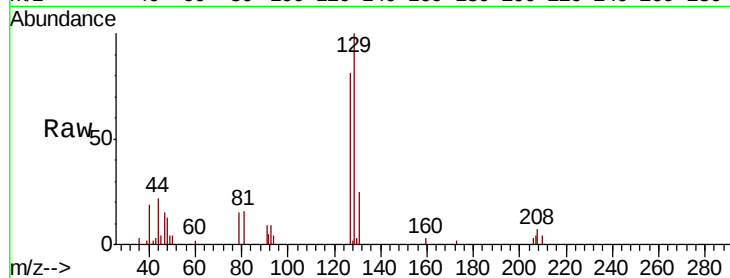
14B-1

Tot Ion:129 Resp: 15575

Ion Ratio Lower Upper

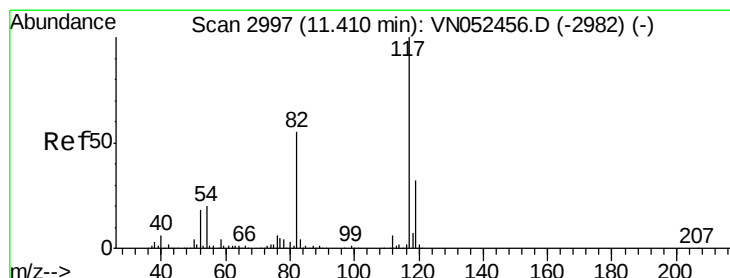
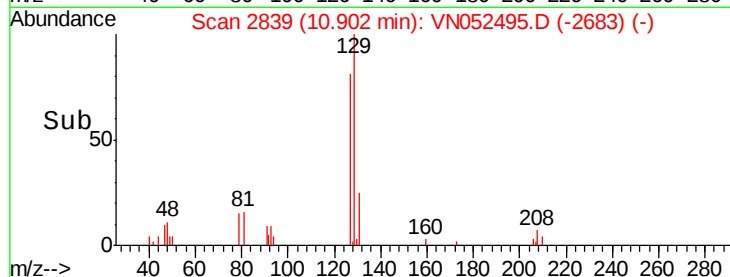
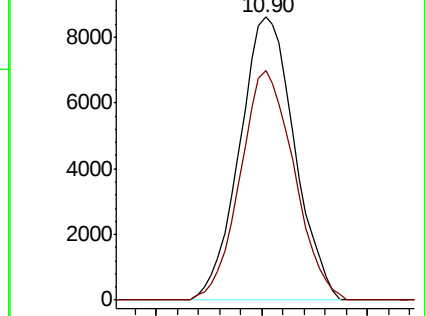
129 100

127 79.5 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

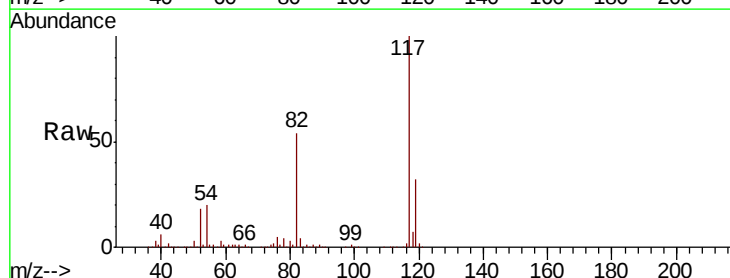
Tgt Ion:117 Resp: 831590

Ion Ratio Lower Upper

117 100

82 54.6 44.2 66.2

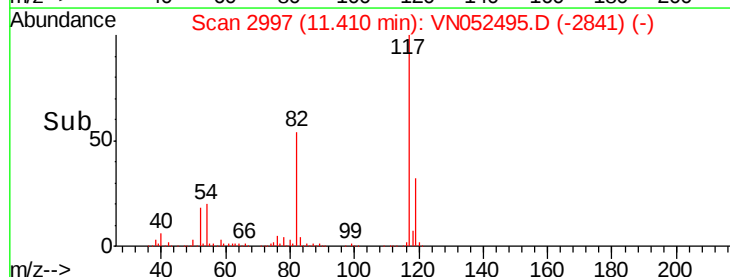
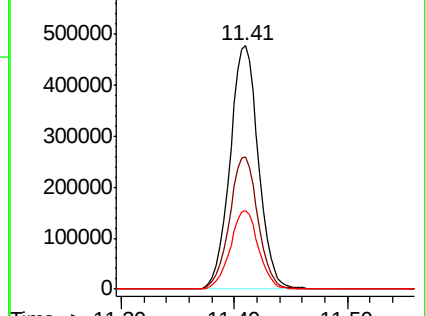
119 32.1 25.4 38.2

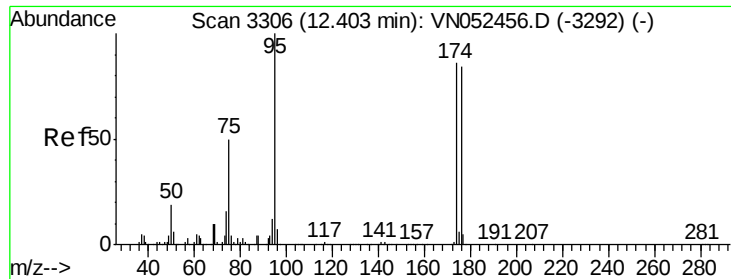


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

14B-1

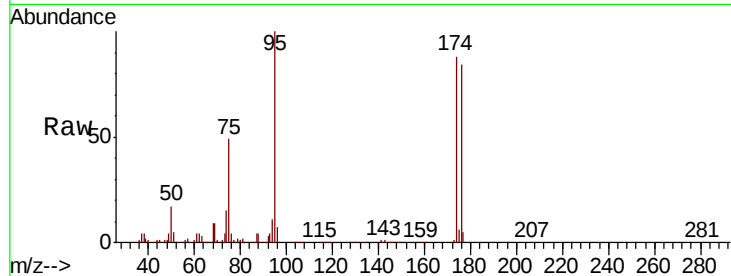
Tot Ion: 95 Resp: 337879

Ion Ratio Lower Upper

95 100

174 86.9 67.9 101.9

176 84.1 66.4 99.6

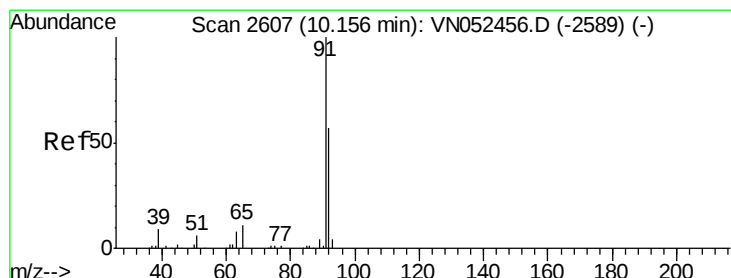
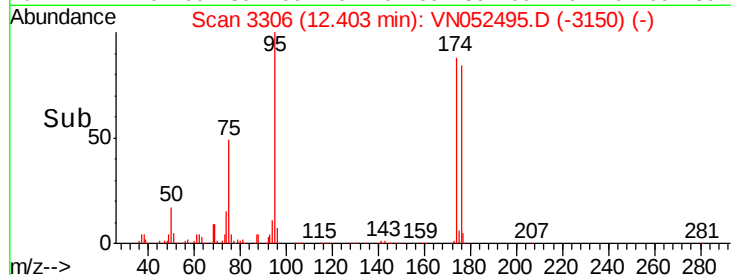


Abundance Ion 95.00 (94.70 to 95.70): VN052456.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN052456.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN052456.D (-3292) (-)

Time-->



#62

Toluene

Concen: 0.429 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052495.D

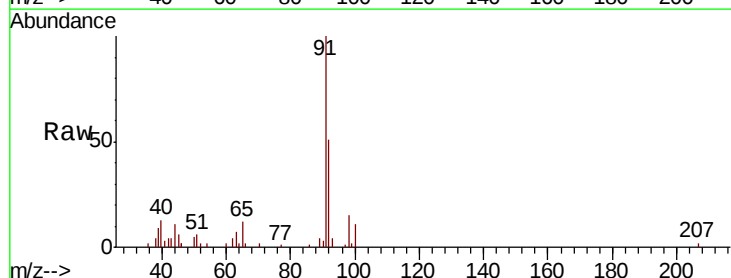
Acq: 27 Nov 2018 23:25

Tgt Ion: 91 Resp: 19647

Ion Ratio Lower Upper

91 100

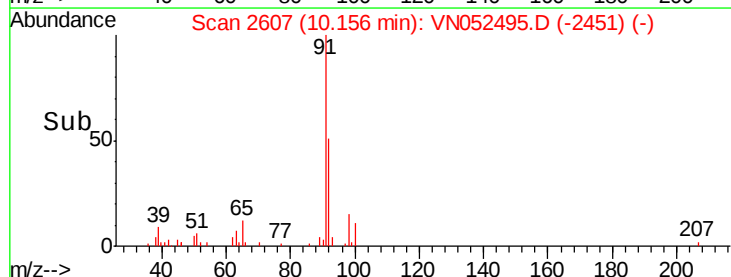
92 54.8 45.4 68.2

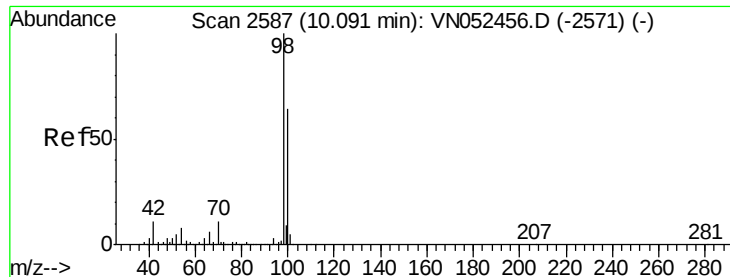


Abundance Ion 91.00 (90.70 to 91.70): VN052456.D (-2589) (-)

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

Time-->





#63

Toluene-d8

Concen: 0.429 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

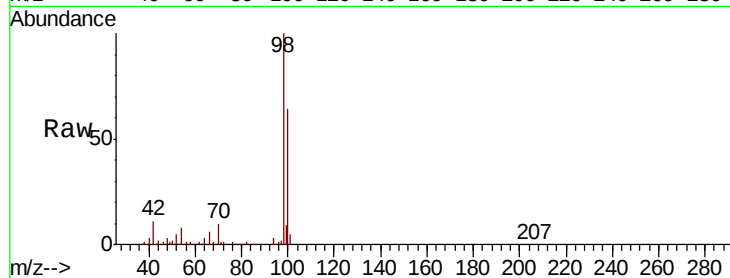
14B-1

Tot Ion: 98 Resp: 1171709

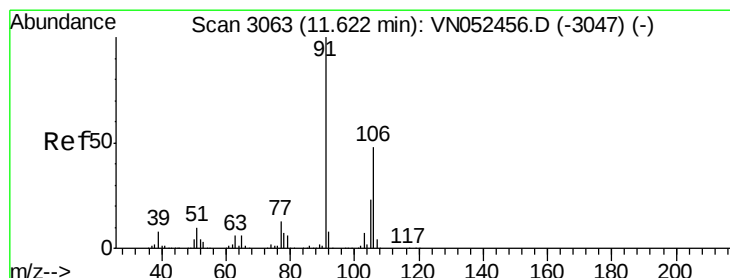
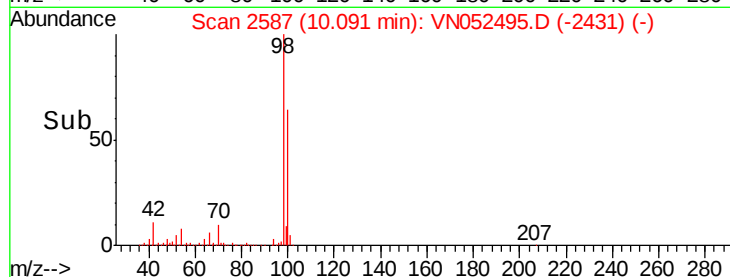
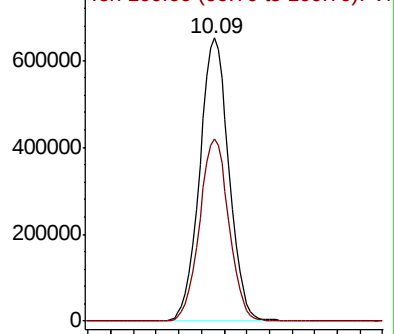
Ion Ratio Lower Upper

98 100

100 64.7 51.1 76.7



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



#67

m/p-Xylenes

Concen: 0.454 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN052495.D

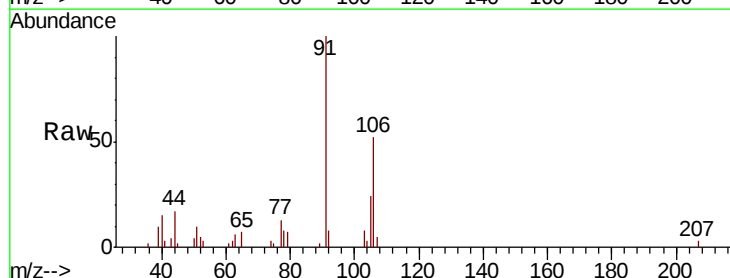
Acq: 27 Nov 2018 23:25

Tgt Ion: 106 Resp: 8357

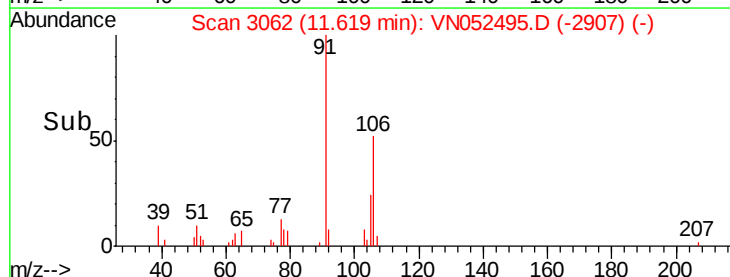
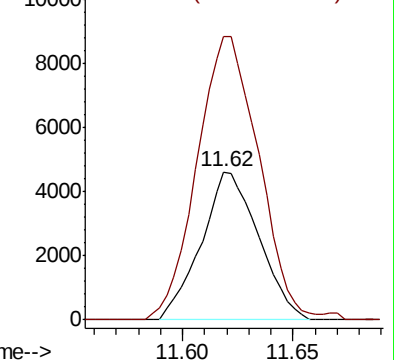
Ion Ratio Lower Upper

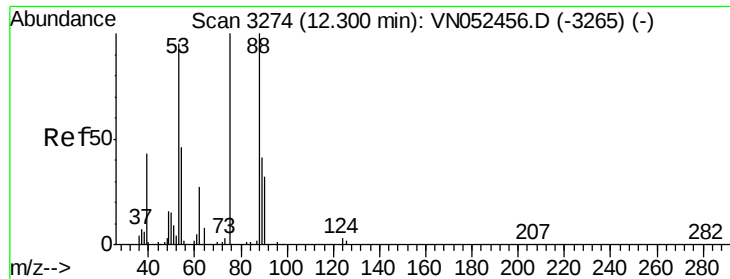
106 100

91 204.4 163.9 245.9



Abundance Ion 106.00 (105.70 to 106.70): VN052456.D (-3047) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 57.708 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

14B-1

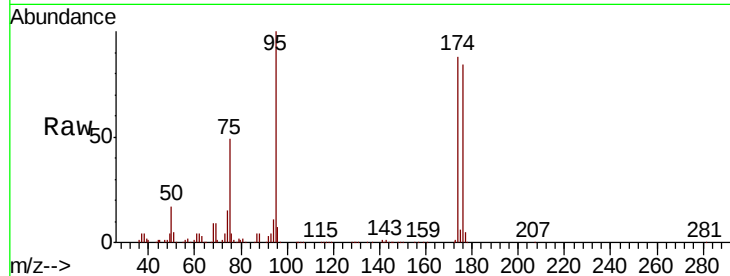
Tot Ion: 75 Resp: 161819

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

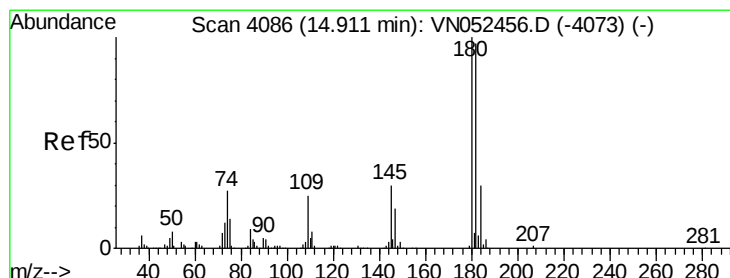
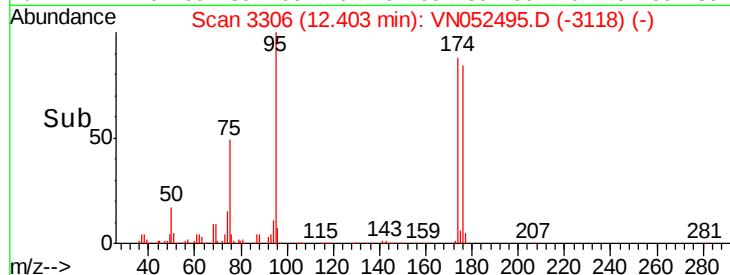
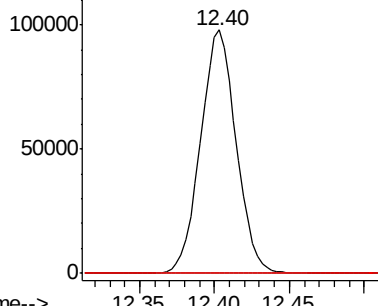
89 0.0 21.7 65.1#



Abundance Ion 75.00 (74.70 to 75.70): VN052495.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN052495.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN052495.D (-3306) (-)



#89

1,2,4-Trichlorobenzene

Concen: 0.368 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN052495.D

Acq: 27 Nov 2018 23:25

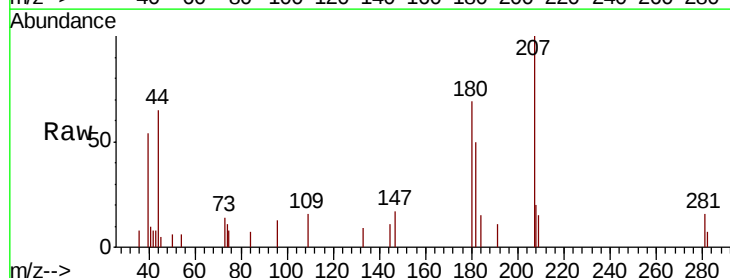
Tgt Ion:180 Resp: 3486

Ion Ratio Lower Upper

180 100

182 78.7 76.6 114.8

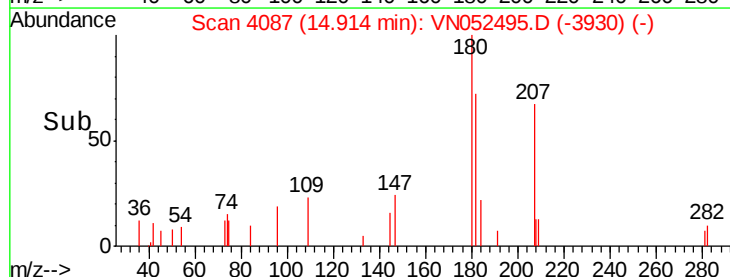
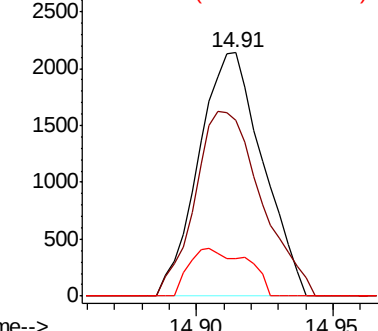
145 11.4 23.6 35.4#

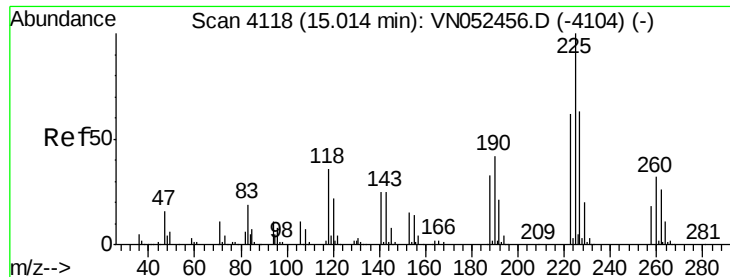


Abundance Ion 180.00 (179.70 to 180.70): VN052495.D (-4087) (-)

Ion 182.00 (181.70 to 182.70): VN052495.D (-4087) (-)

Ion 145.00 (144.70 to 145.70): VN052495.D (-4087) (-)

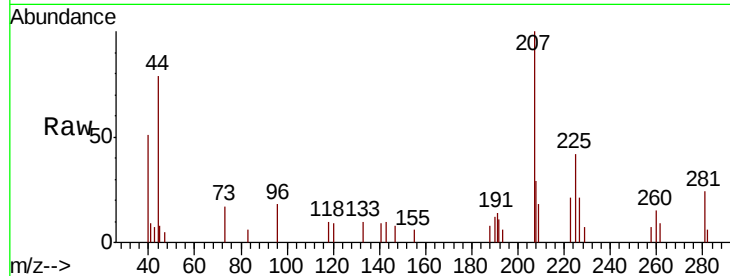




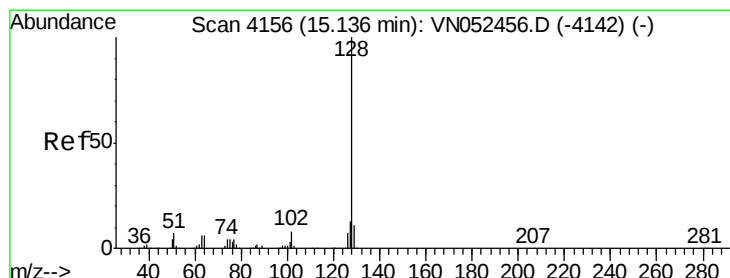
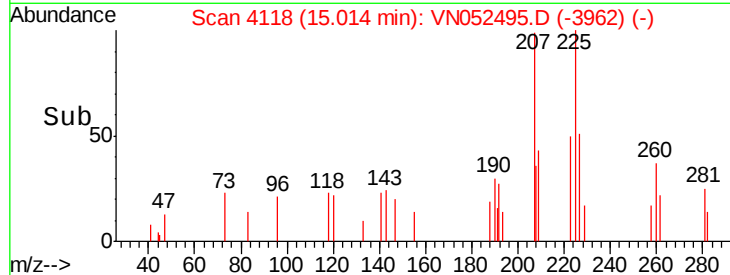
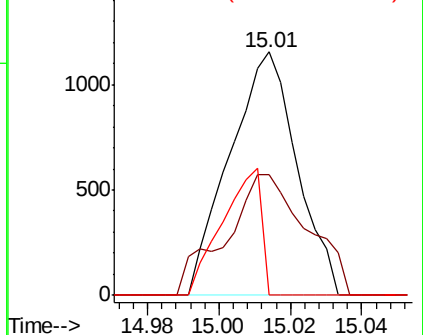
#90
Hexachlorobutadiene
Concen: 0.242 ug/l
RT: 15.01 min Scan# 4118
Delta R.T. 0.00 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

Instrument :
MSVOA_N
ClientSampled :
14B-1

Tot Ion:225 Resp: 1502
Ion Ratio Lower Upper
225 100
223 52.4 0.0 125.6
227 30.4 0.0 127.8

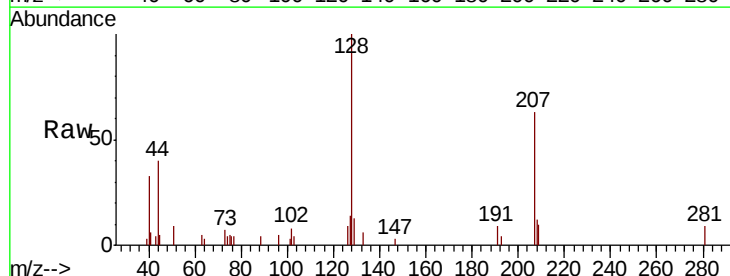


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

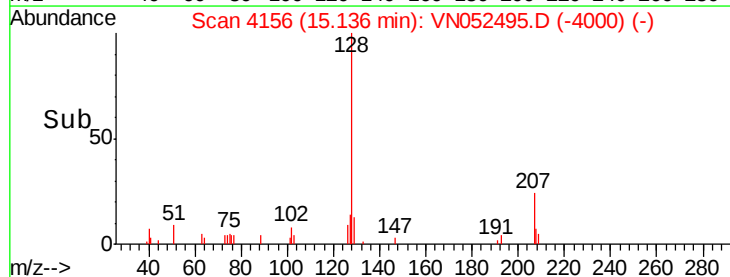
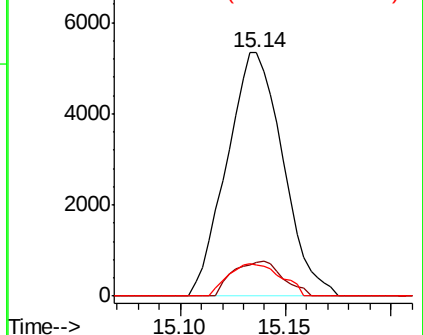


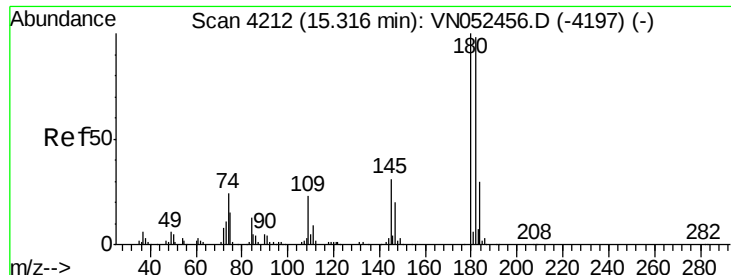
#91
Naphthalene
Concen: 0.516 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052495.D
Acq: 27 Nov 2018 23:25

Tgt Ion:128 Resp: 9875
Ion Ratio Lower Upper
128 100
127 12.8 9.9 14.9
129 12.3 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





#92
 1,2,3-Trichlorobenzene
 Concen: 0.362 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN052495.D
 Acq: 27 Nov 2018 23:25

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	127.0	0.0	196.2
145	31.4	0.0	62.2

