

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052542.D
 Acq On : 29 Nov 2018 2:07
 Operator : MD\SY
 Sample : J6120-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

Quant Time: Nov 29 02:37:16 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	179719	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1002923	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	819303	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	366384	29.92	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.73%
60) 4-Bromofluorobenzene	12.40	95	330731	26.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.00%
63) Toluene-d8	10.09	98	1138534	29.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.90%

Target Compounds

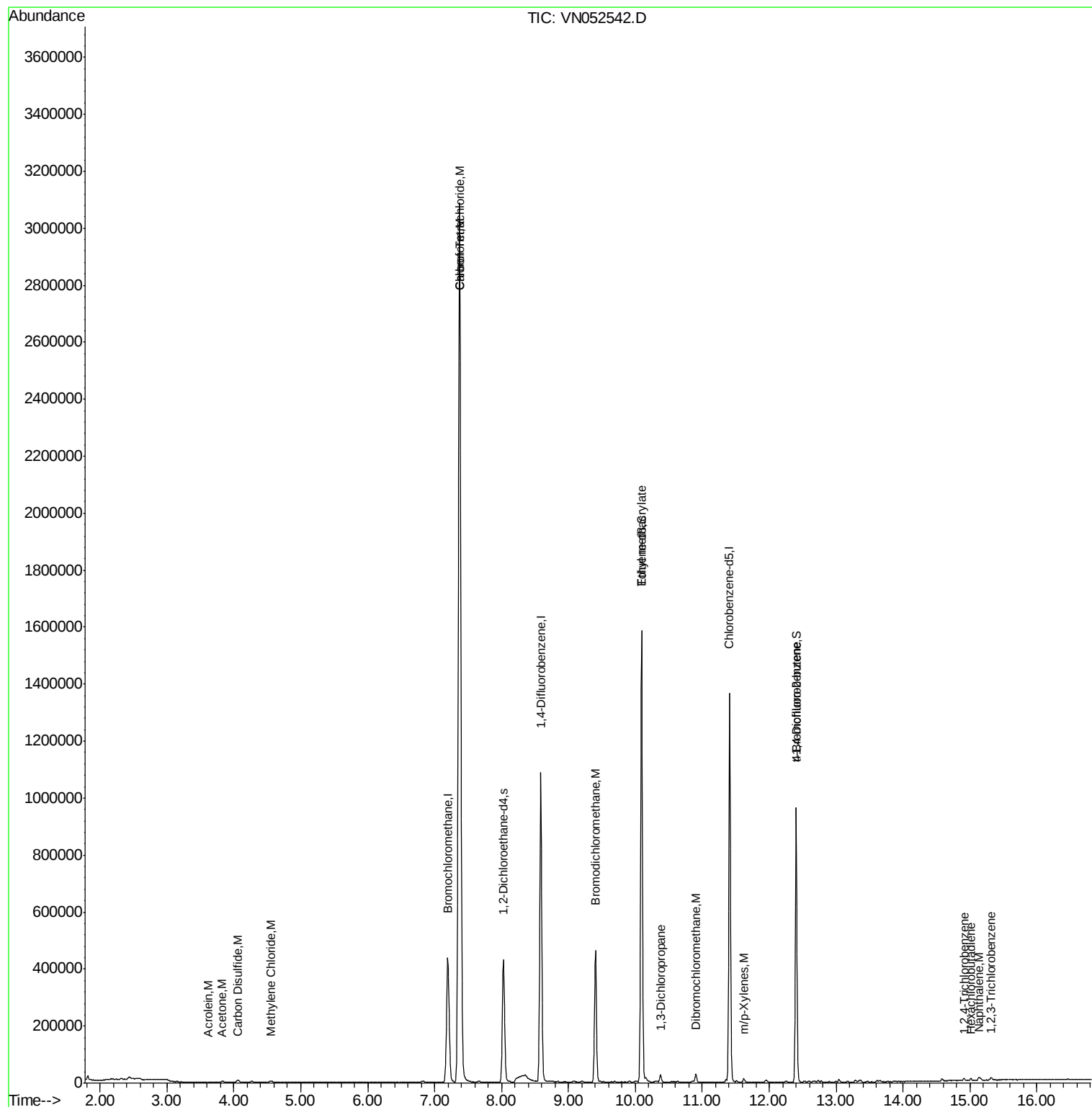
					Ovalue	
13) Acrolein	3.62	56	529	0.526	ug/l	# 51
15) Acetone	3.82	58	664	0.703	ug/l	# 46
16) Carbon Disulfide	4.06	76	6994	0.219	ug/l	95
18) Methylene Chloride	4.55	84	2879	0.247	ug/l	# 74
25) Chloroform	7.37	83	3358739	165.379	ug/l	99
33) Carbon Tetrachloride	7.37	117	38657	2.772	ug/l	95
41) Bromodichloromethane	9.40	83	330909	22.454	ug/l	99
51) Ethyl methacrylate	10.09	69	3319	0.279	ug/l	94
52) 1,3-Dichloropropane	10.37	76	4473	0.266	ug/l	45
53) Dibromochloromethane	10.90	129	15054	1.446	ug/l	95
67) m/p-Xylenes	11.62	106	4430	0.244	ug/l	92
77) t-1,4-Dichloro-2-butene	12.40	75	158248	57.281	ug/l	# 11
89) 1,2,4-Trichlorobenzene	14.91	180	2820	0.302	ug/l	# 94
90) Hexachlorobutadiene	15.01	225	1663	0.271	ug/l	90
91) Naphthalene	15.14	128	8265	0.438	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	3253	0.378	ug/l	85

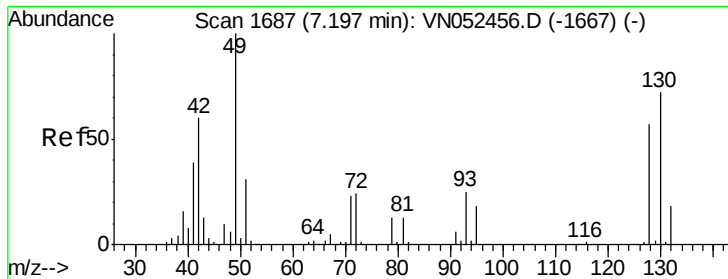
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampled :

14B-1

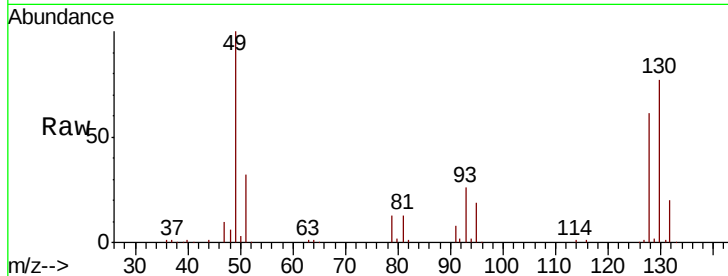
Tot Ion:128 Resp: 179719

Ion Ratio Lower Upper

128 100

49 160.2 0.0 431.8

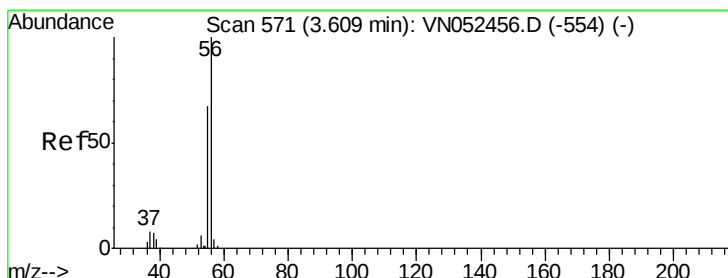
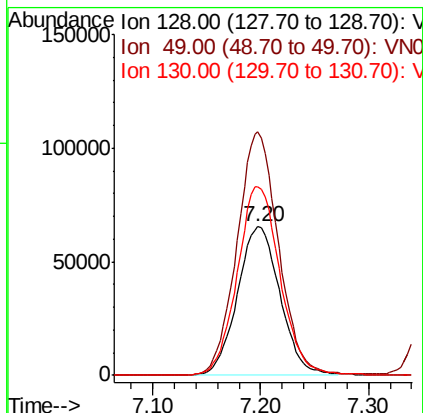
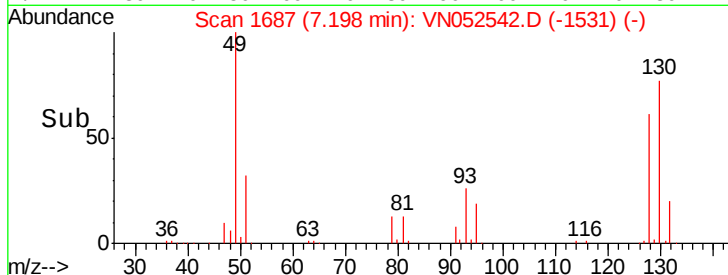
130 128.2 0.0 317.0



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: 0.526 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052542.D

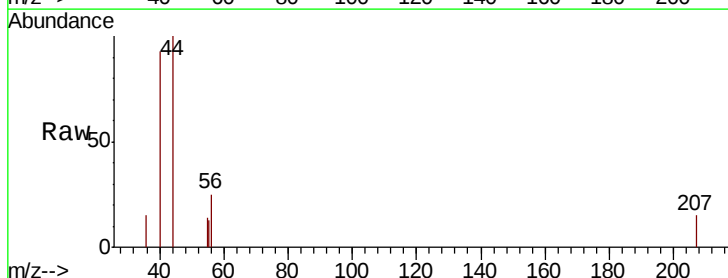
Acq: 29 Nov 2018 2:07

Tgt Ion: 56 Resp: 529

Ion Ratio Lower Upper

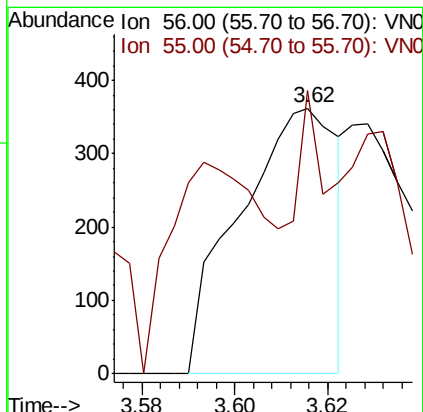
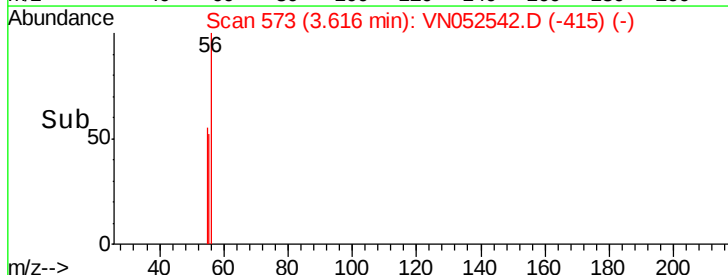
56 100

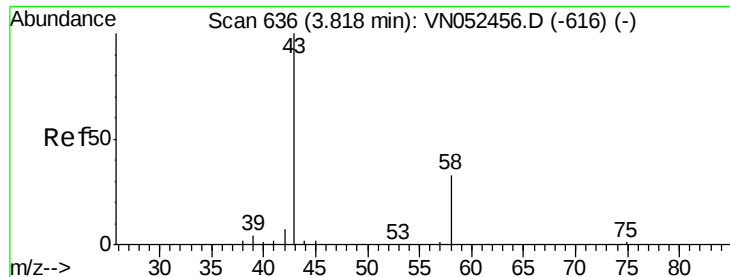
55 30.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.703 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampled :

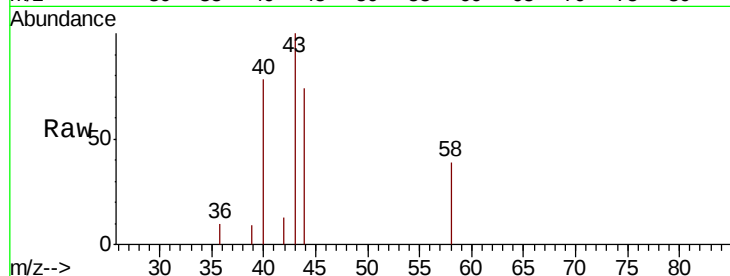
14B-1

Tot Ion: 58 Resp: 664

Ion Ratio Lower Upper

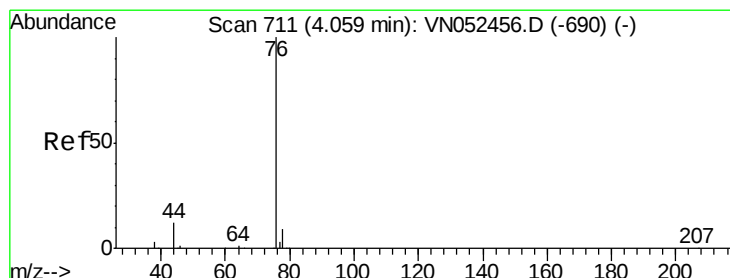
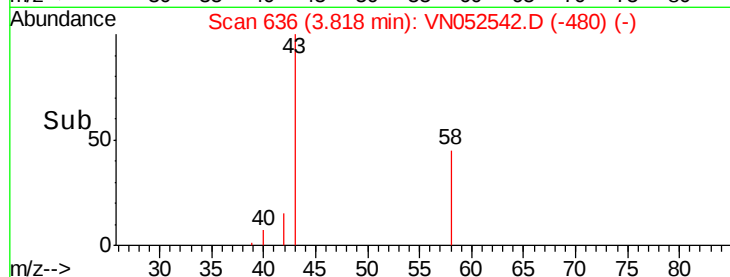
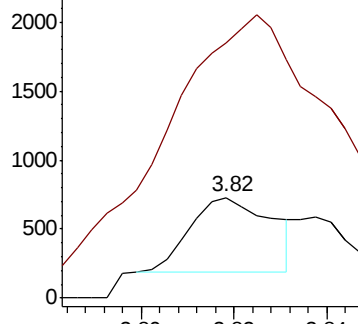
58 100

43 197.6 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.219 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052542.D

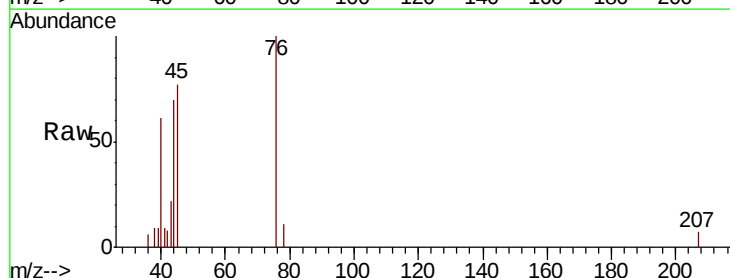
Acq: 29 Nov 2018 2:07

Tgt Ion: 76 Resp: 6994

Ion Ratio Lower Upper

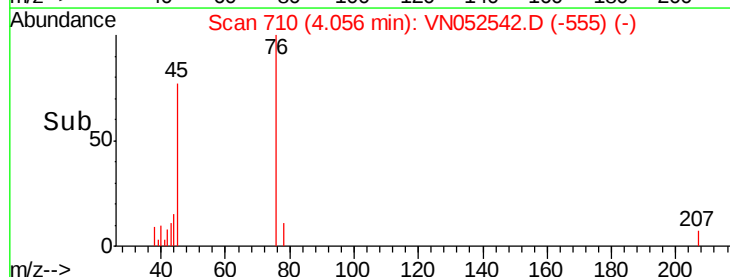
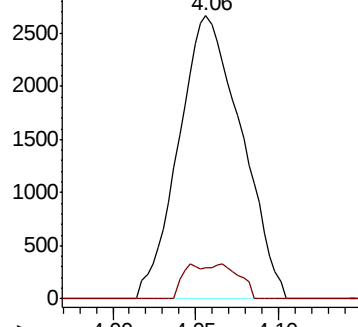
76 100

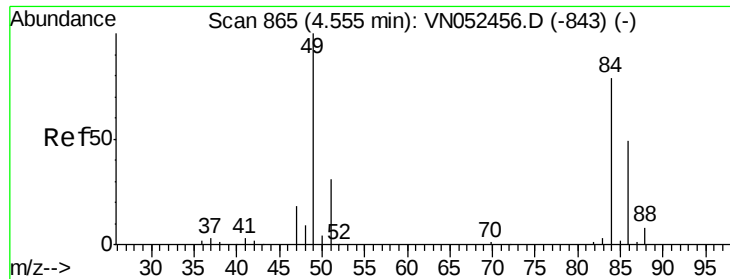
78 10.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

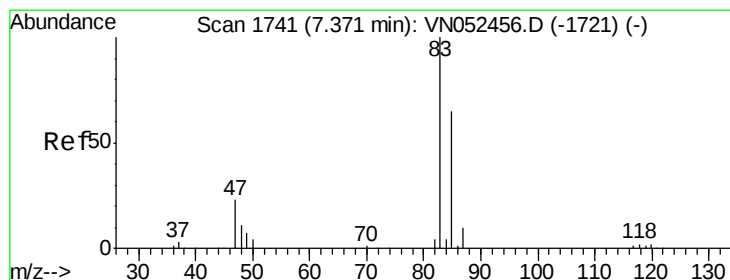
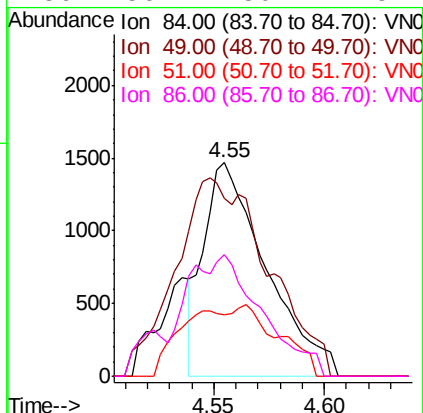
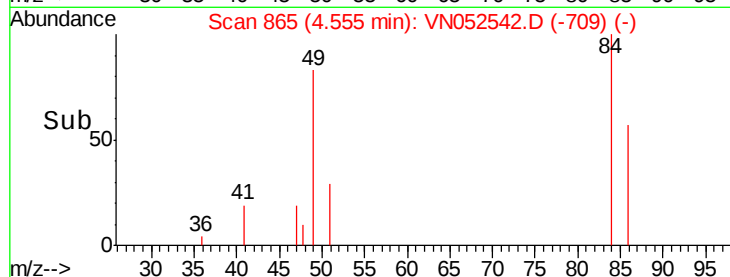
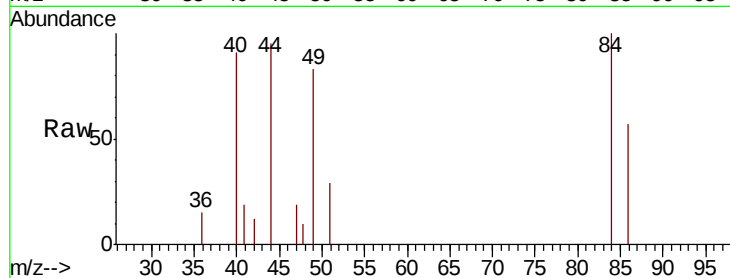




#18
Methvlene Chloride
Concen: 0.247 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

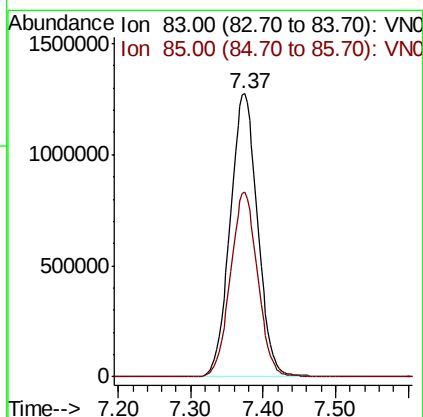
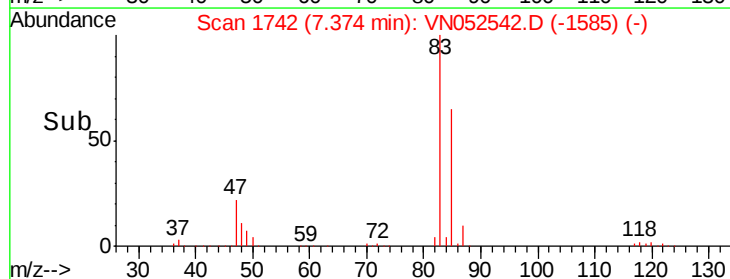
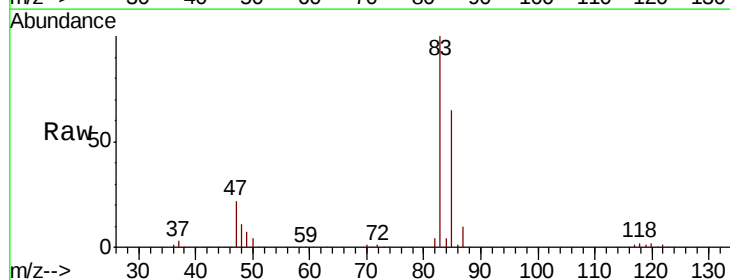
Instrument :
MSVOA_N
ClientSampleId :
14B-1

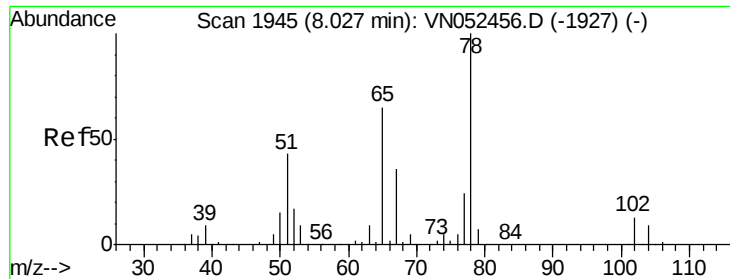
Tot Ion: 84 Resp: 2879
Ion Ratio Lower Upper
84 100
49 83.4 101.4 152.0#
51 28.9 31.7 47.5#
86 56.7 50.1 75.1



#25
Chloroform
Concen: 165.379 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

Tgt Ion: 83 Resp: 3358739
Ion Ratio Lower Upper
83 100
85 65.1 51.7 77.5

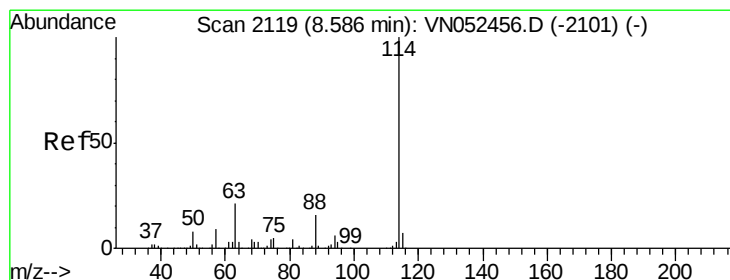
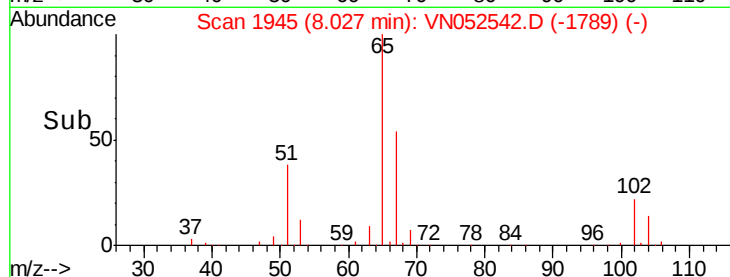
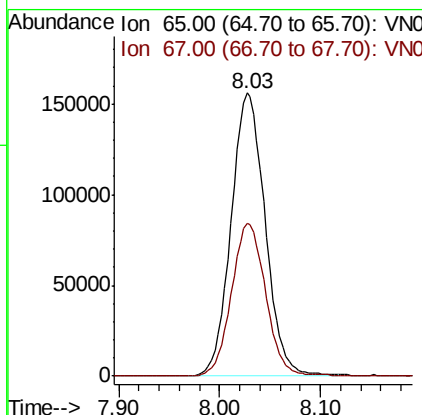
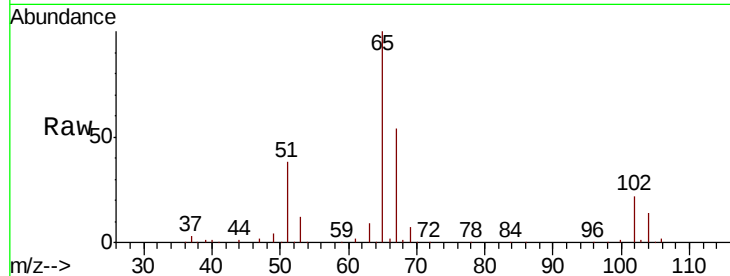




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052542.D
 Acq: 29 Nov 2018 2:07

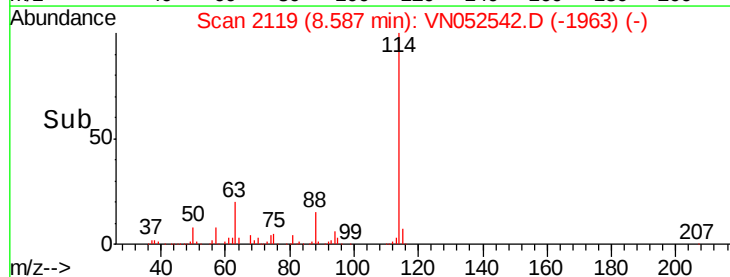
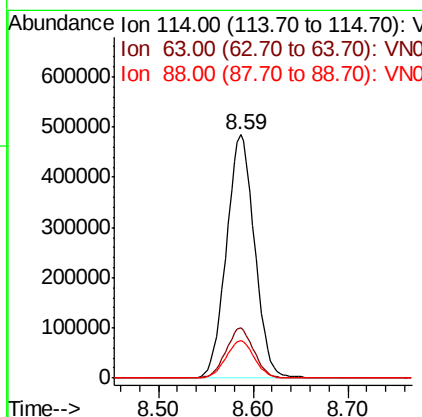
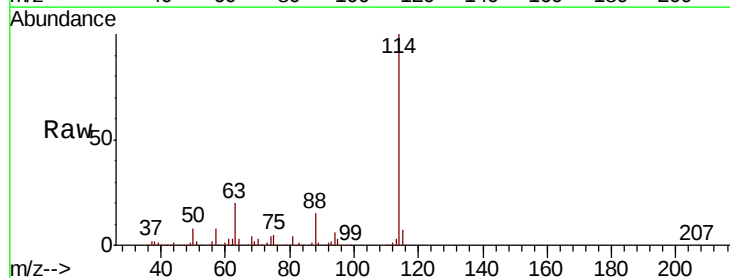
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

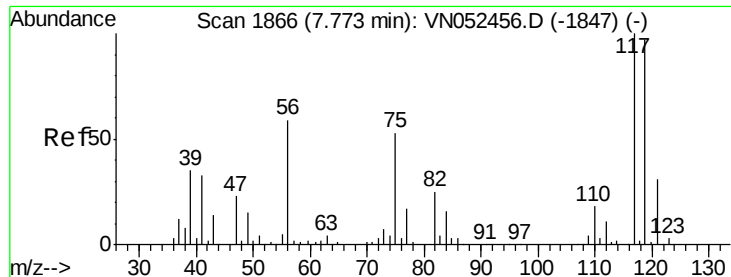
Tot Ion: 65 Resp: 366384
 Ion Ratio Lower Upper
 65 100
 67 53.9 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052542.D
 Acq: 29 Nov 2018 2:07

Tgt Ion: 114 Resp: 1002923
 Ion Ratio Lower Upper
 114 100
 63 20.3 16.9 25.3
 88 15.5 12.8 19.2





#33

Carbon Tetrachloride

Concen: 2.772 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.40 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampleId :

14B-1

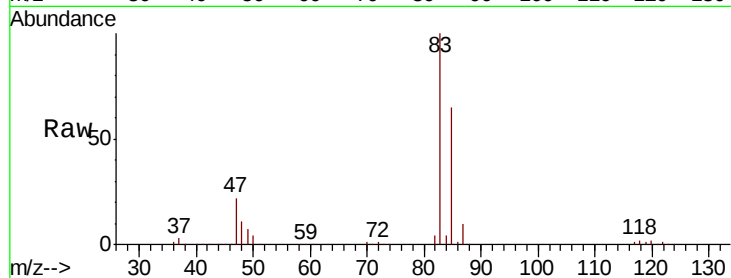
Tot Ion:117 Resp: 38657

Ion Ratio Lower Upper

117 100

119 91.9 77.3 115.9

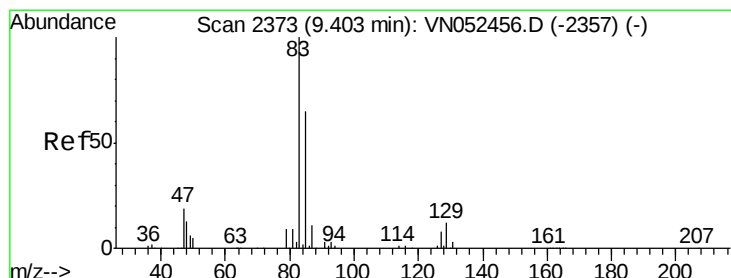
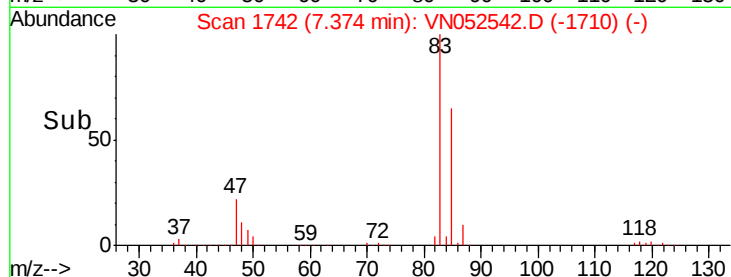
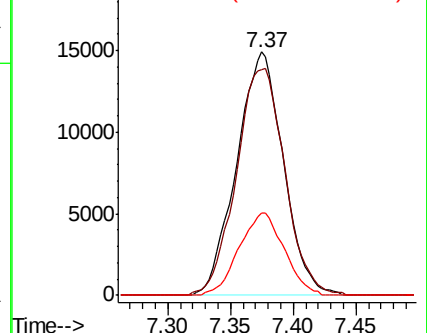
121 33.7 24.9 37.3



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: 22.454 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

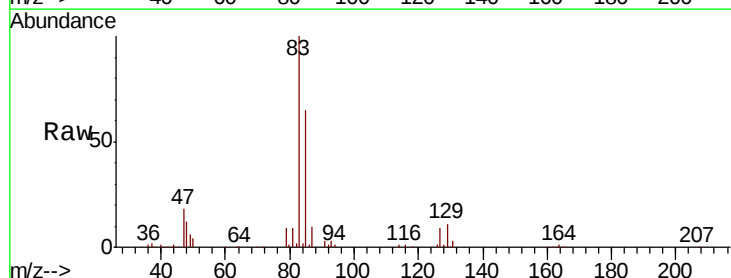
Tgt Ion: 83 Resp: 330909

Ion Ratio Lower Upper

83 100

85 64.5 52.4 78.6

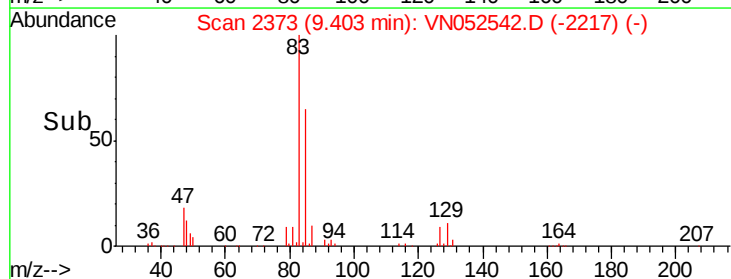
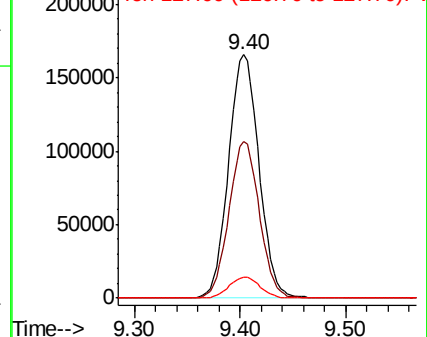
127 8.6 6.6 9.8

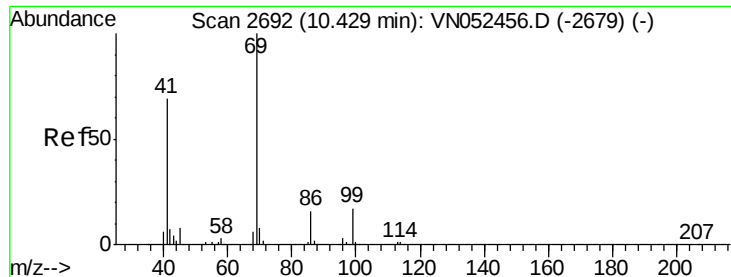


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 127.00 (126.70 to 127.70): V





#51

Ethyl methacrylate

Concen: 0.279 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampled :

14B-1

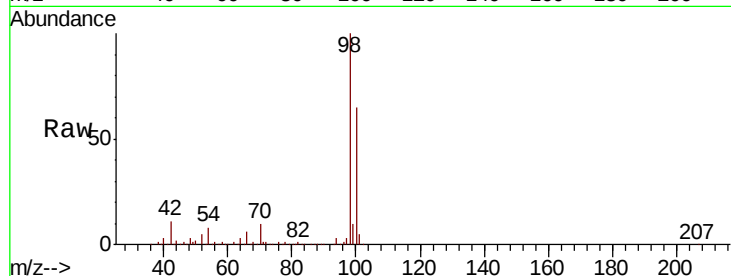
Tot Ion: 69 Resp: 3319

Ion Ratio Lower Upper

69 100

41 71.5 34.4 103.3

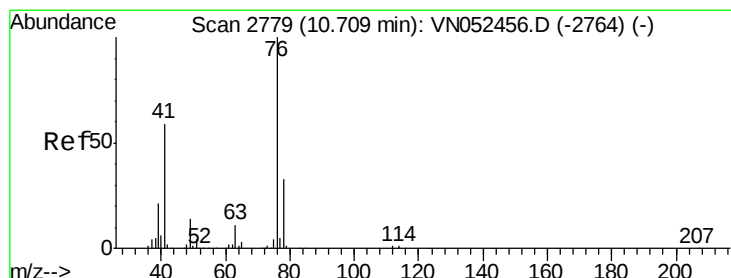
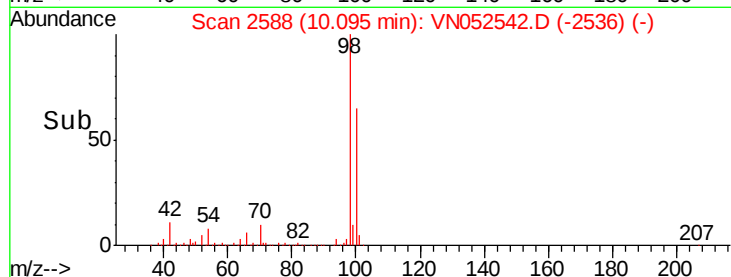
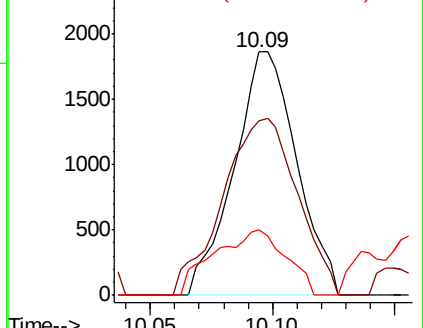
39 26.8 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052456.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052456.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052456.D (-2679) (-)



#52

1,3-Dichloropropane

Concen: 0.266 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.33 min

Lab File: VN052542.D

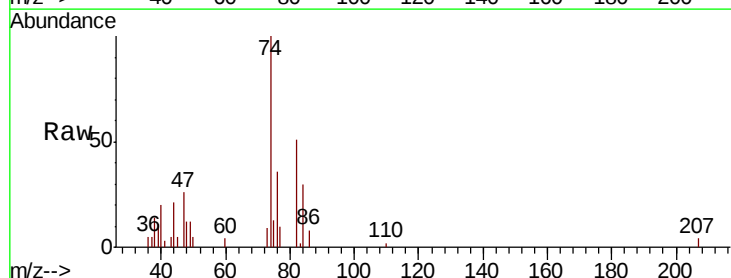
Acq: 29 Nov 2018 2:07

Tgt Ion: 76 Resp: 4473

Ion Ratio Lower Upper

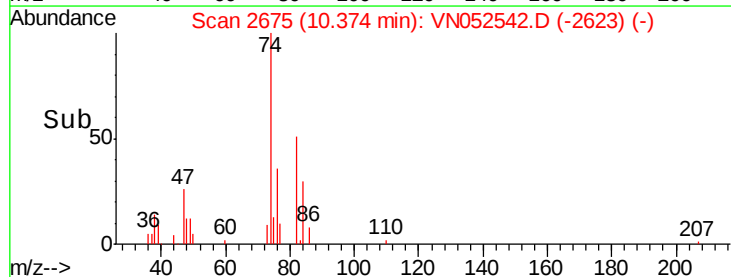
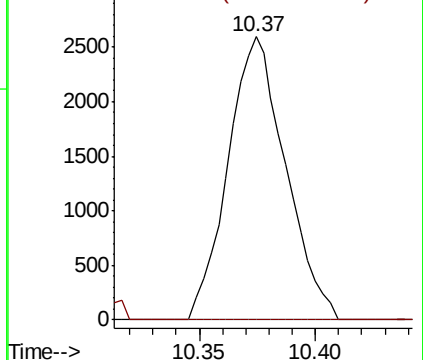
76 100

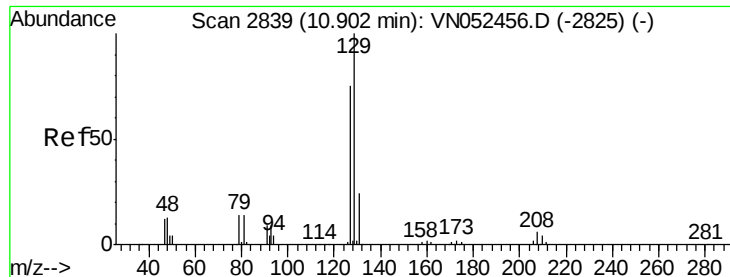
78 1.5 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN052456.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN052456.D (-2764) (-)





#53

Dibromochloromethane

Concen: 1.446 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampleId :

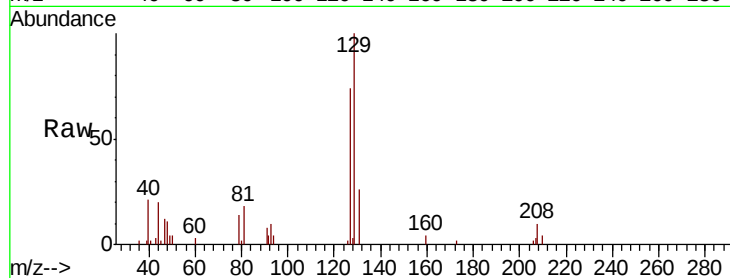
14B-1

Tot Ion:129 Resp: 15054

Ion Ratio Lower Upper

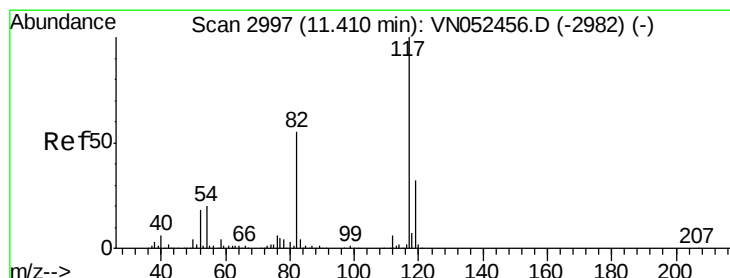
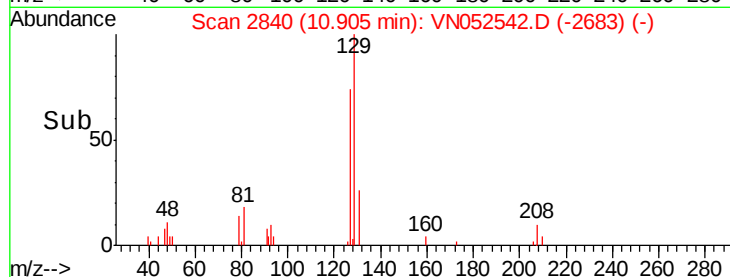
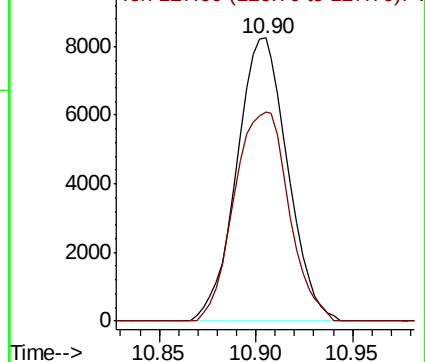
129 100

127 79.4 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: VN052542.D

Acq: 29 Nov 2018 2:07

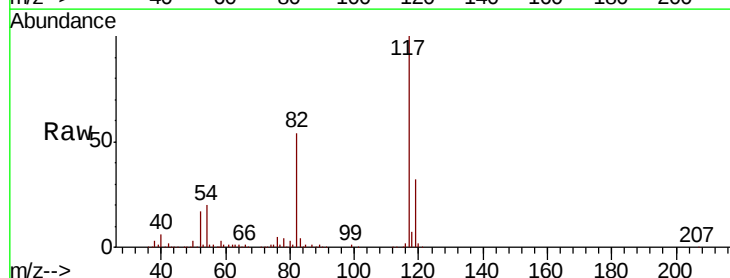
Tgt Ion:117 Resp: 819303

Ion Ratio Lower Upper

117 100

82 54.2 44.2 66.2

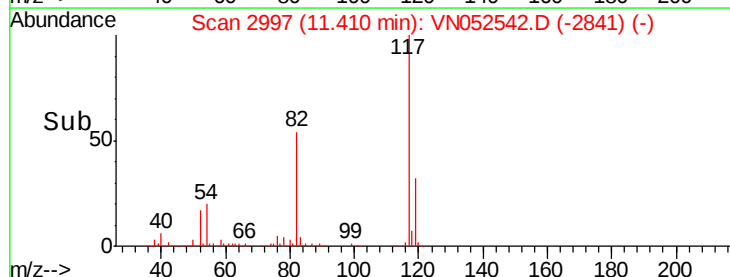
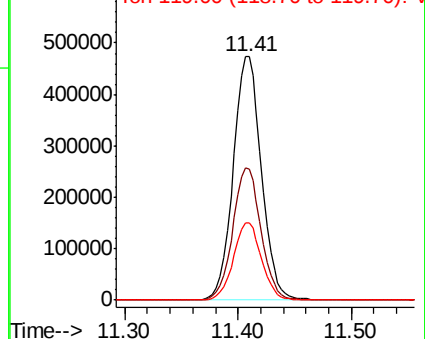
119 31.9 25.4 38.2

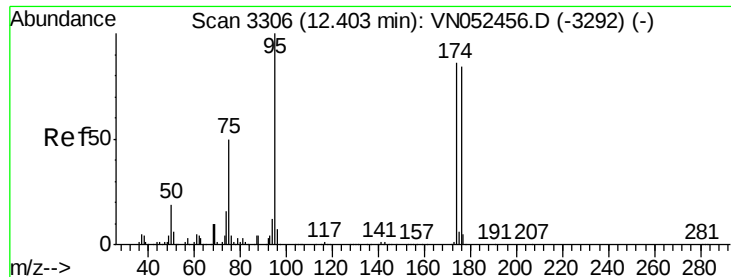


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

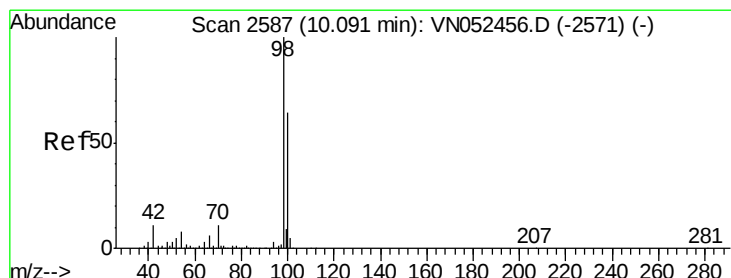
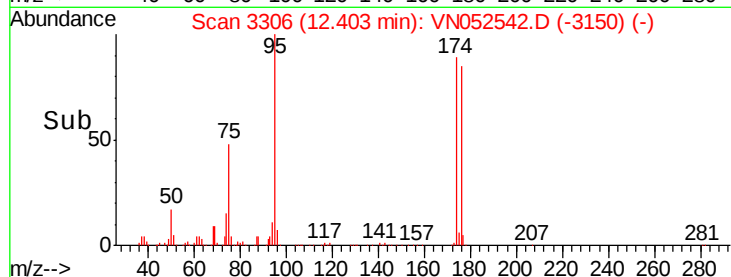
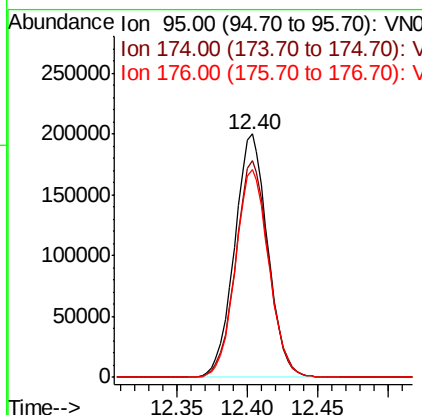
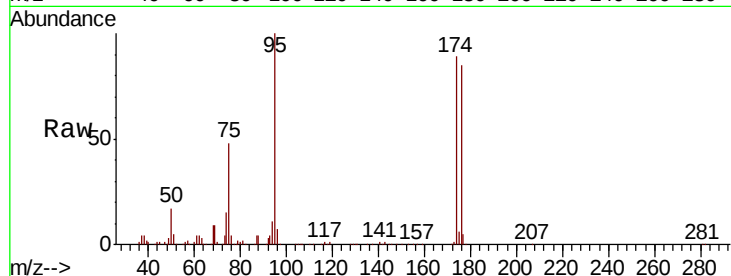




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

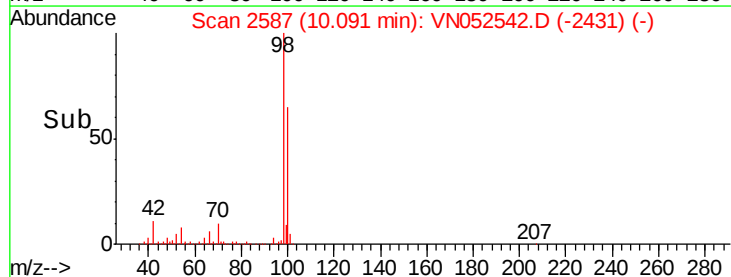
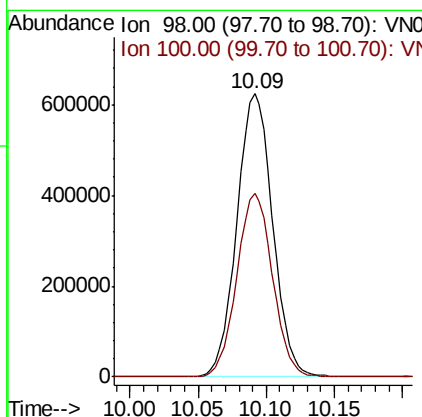
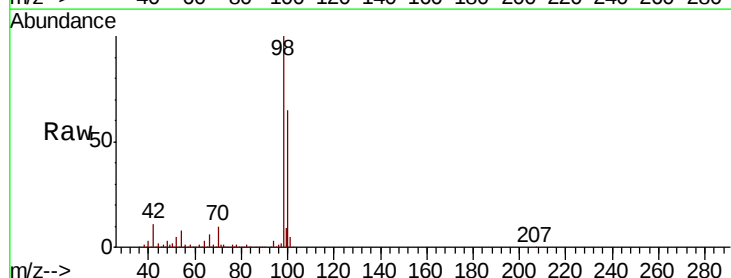
Instrument :
MSVOA_N
ClientSampled :
14B-1

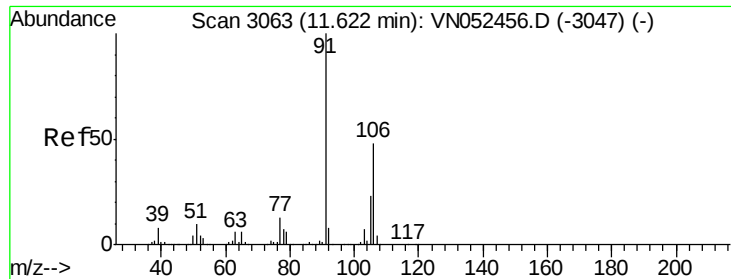
Tot Ion	95	Resp	330731
Ion Ratio	Lower	Upper	
95	100		
174	88.8	67.9	101.9
176	85.8	66.4	99.6



#63
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

Tgt Ion	98	Resp	1138534
Ion Ratio	Lower	Upper	
98	100		
100	64.6	51.1	76.7

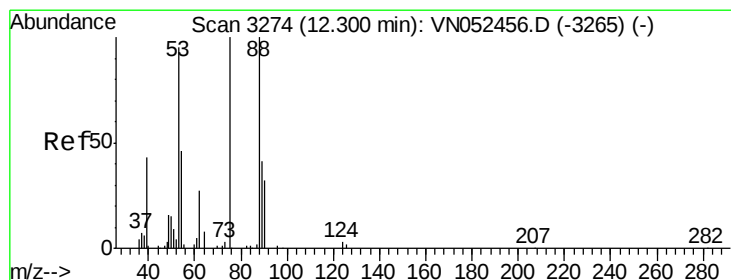
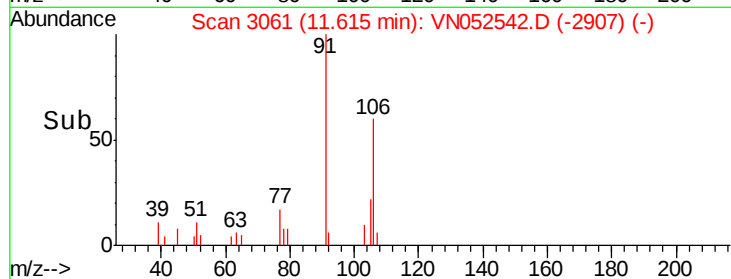
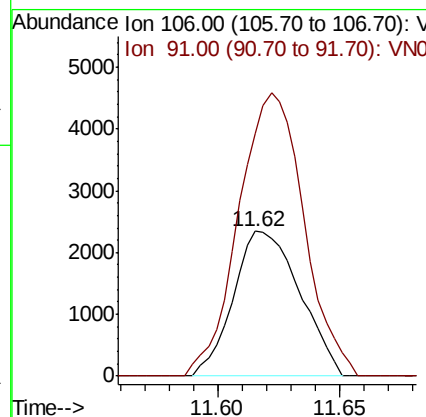
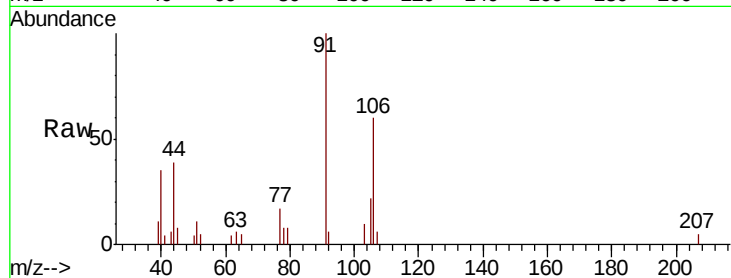




#67
m/p-Xvlenes
Concen: 0.244 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

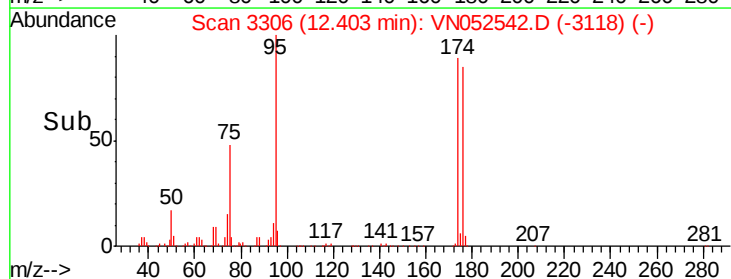
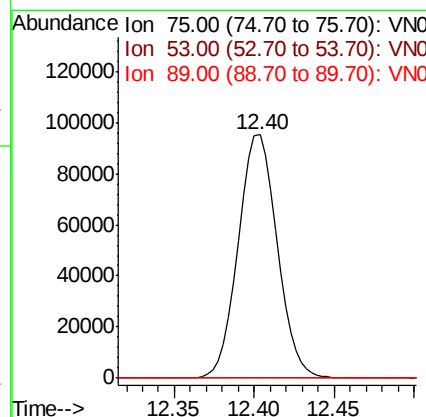
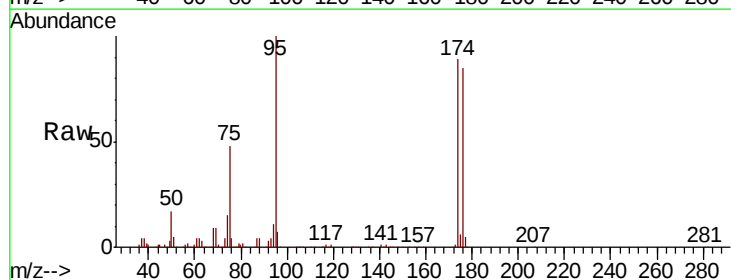
Instrument :
MSVOA_N
ClientSampled :
14B-1

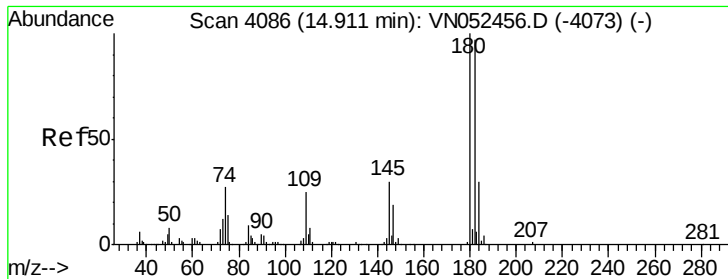
Tot Ion:106 Resp: 4430
Ion Ratio Lower Upper
106 100
91 192.4 163.9 245.9



#77
t-1,4-Dichloro-2-butene
Concen: 57.281 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052542.D
Acq: 29 Nov 2018 2:07

Tgt Ion: 75 Resp: 158248
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

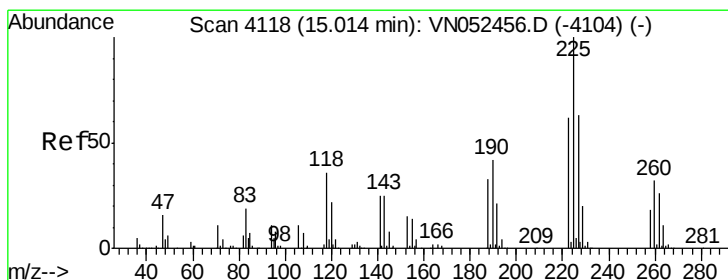
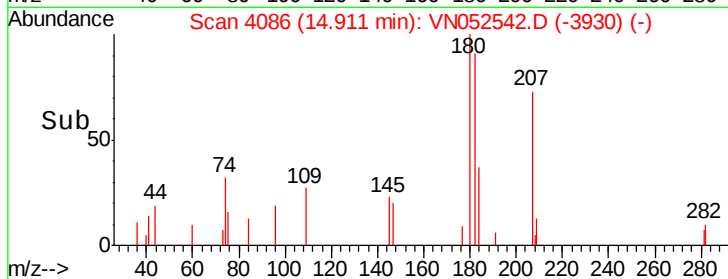
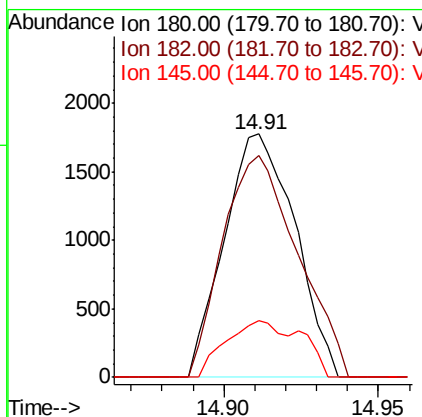
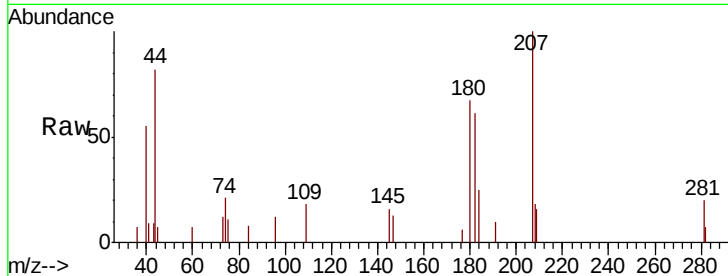




#89
 1,2,4-Trichlorobenzene
 Concen: 0.302 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052542.D
 Acq: 29 Nov 2018 2:07

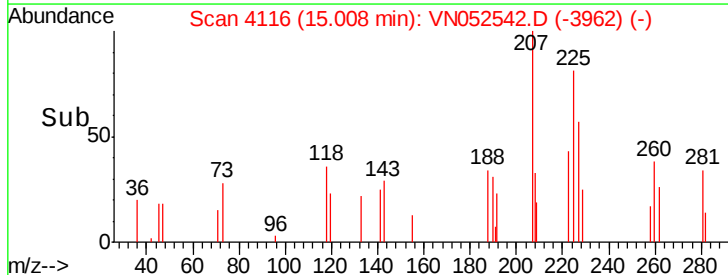
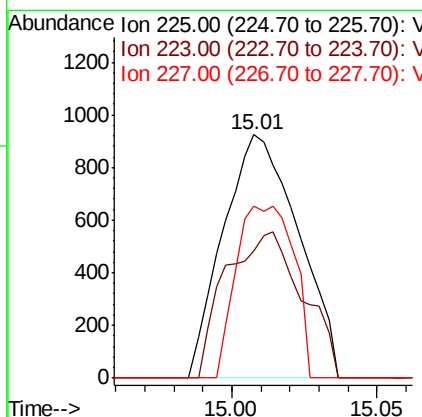
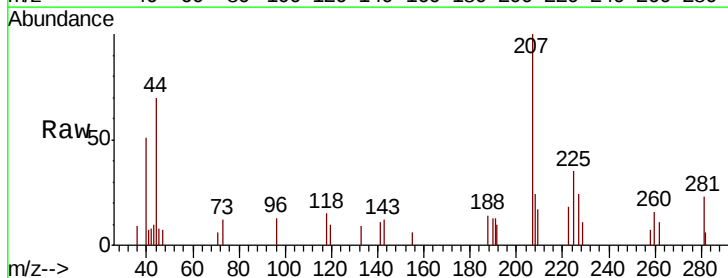
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1

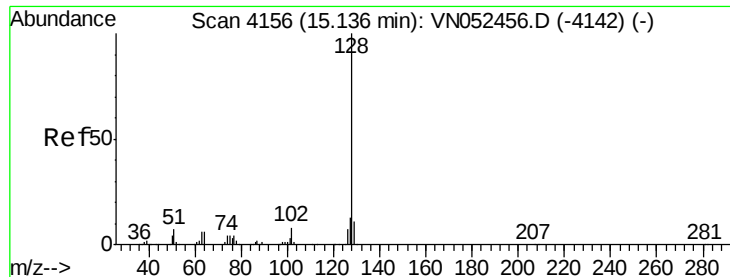
Tot Ion:180 Resp: 2820
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.6 114.8
 145 19.0 23.6 35.4#



#90
 Hexachlorobutadiene
 Concen: 0.271 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VN052542.D
 Acq: 29 Nov 2018 2:07

Tgt Ion:225 Resp: 1663
 Ion Ratio Lower Upper
 225 100
 223 56.3 0.0 125.6
 227 54.2 0.0 127.8





#91

Naphthalene

Concen: 0.438 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

Instrument :

MSVOA_N

ClientSampleId :

14B-1

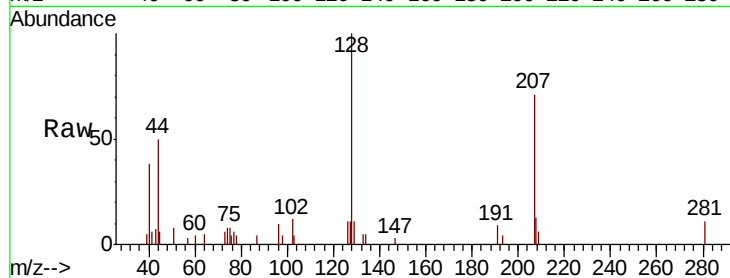
Tot Ion:128 Resp: 8265

Ion Ratio Lower Upper

128 100

127 11.1 9.9 14.9

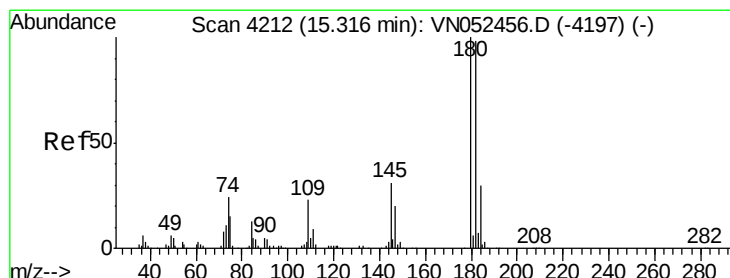
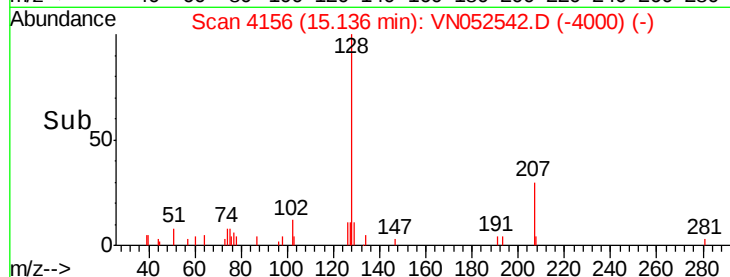
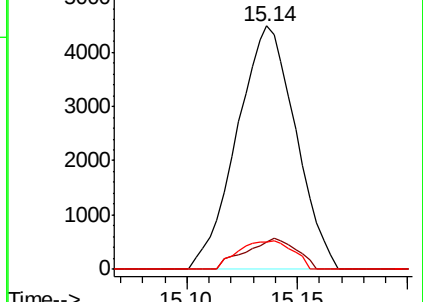
129 10.9 8.5 12.7



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: 0.378 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN052542.D

Acq: 29 Nov 2018 2:07

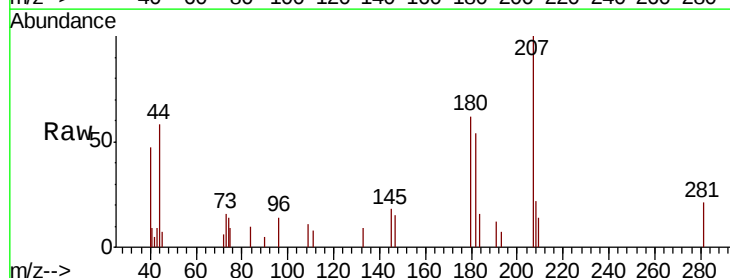
Tgt Ion:180 Resp: 3253

Ion Ratio Lower Upper

180 100

182 107.0 0.0 196.2

145 12.7 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

