

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD042319\
 Data File : VD061973.D
 Acq On : 23 Apr 2019 16:40
 Operator : VA/AP
 Sample : K2203-13
 Misc : 6.73g/5ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-02-041819-A

Quant Time: Apr 23 17:04:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	636578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	995716	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	782150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	383698	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	231430	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
35) Dibromofluoromethane	6.92	113	326355	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
50) Toluene-d8	10.41	98	564571	34.45	ug/l	0.00
Spiked Amount			Recovery	=	68.90%	
62) 4-Bromofluorobenzene	13.56	95	296500	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

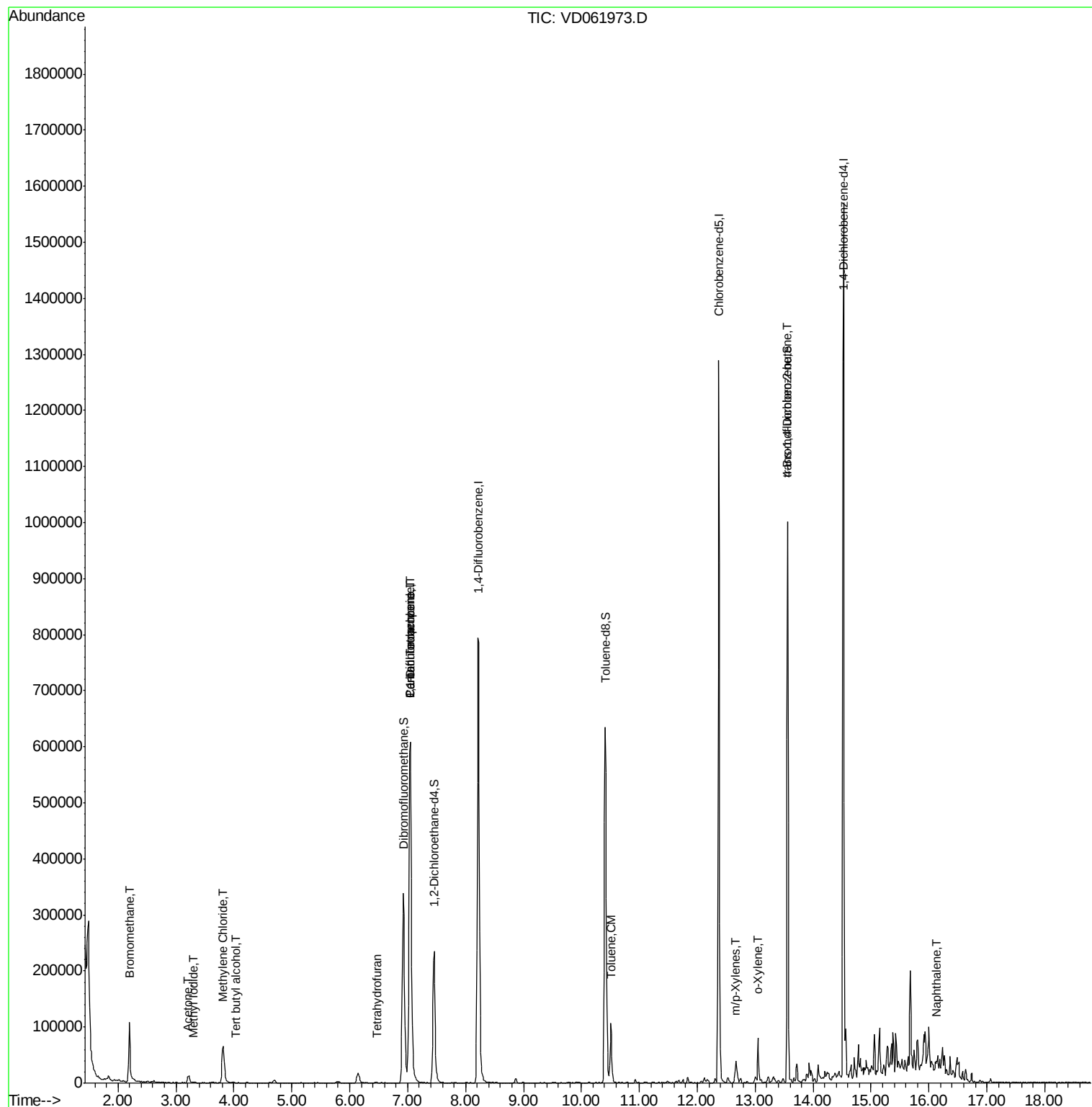
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	2044	1.024	ug/l #	12
10) Methyl Iodide	3.31	142	849	5.510	ug/l #	68
11) Tert butyl alcohol	4.03	59	417	1.481	ug/l #	76
16) Acetone	3.20	43	26728	22.468	ug/l #	89
18) Methyl Acetate	3.64	43	1687	Below Cal	#	53
20) Methylene Chloride	3.81	84	50248	5.861	ug/l	95
29) Tetrahydrofuran	6.46	42	956	1.345	ug/l #	30
36) 1,1-Dichloropropene	7.03	75	46366	5.977	ug/l #	46
38) Carbon Tetrachloride	7.03	117	62896	6.398	ug/l #	16
52) Toluene	10.51	92	56690	4.629	ug/l	95
68) m/p-Xylenes	12.66	106	13853	1.589	ug/l	93
69) o-Xylene	13.05	106	19263	2.415	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.56	75	111963	75.829	ug/l #	16
95) Naphthalene	16.13	128	10156	1.099	ug/l #	92

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

Instrument :

MSVOA_D

ClientSampleId :

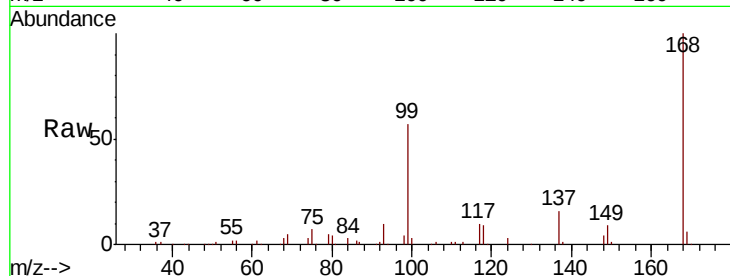
SU-02-041819-A

Tgt Ion:168 Resp: 636578

Ion Ratio Lower Upper

168 100

99 57.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

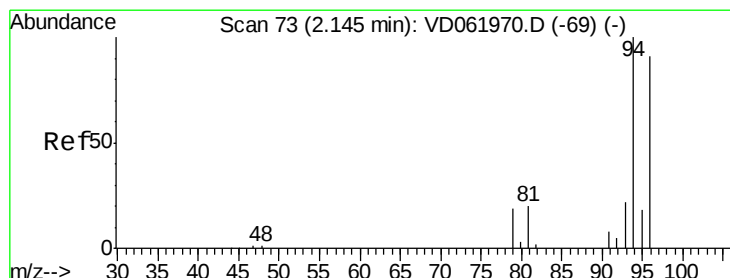
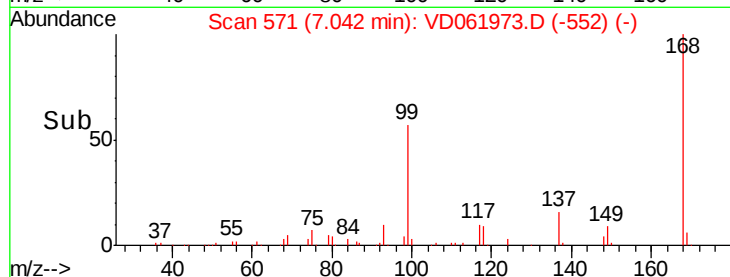
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.024 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.03 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

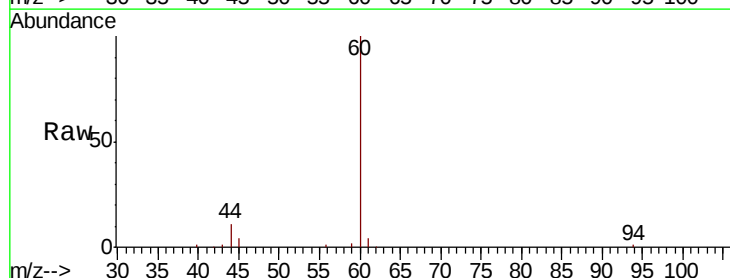
Tgt Ion: 94 Resp: 2044

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

800

600

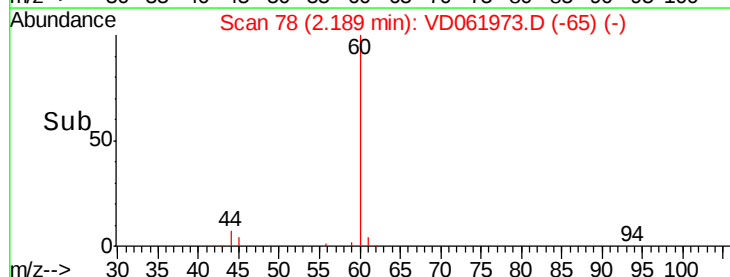
400

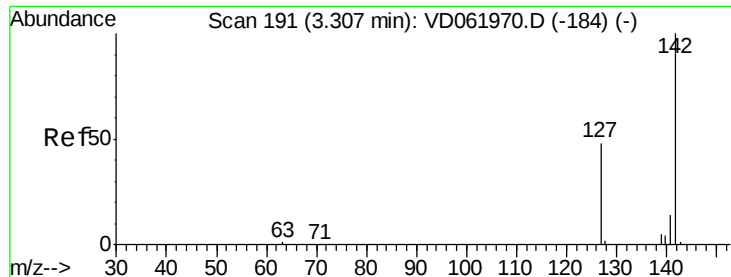
200

0

Time-->

2.10 2.15 2.20 2.25

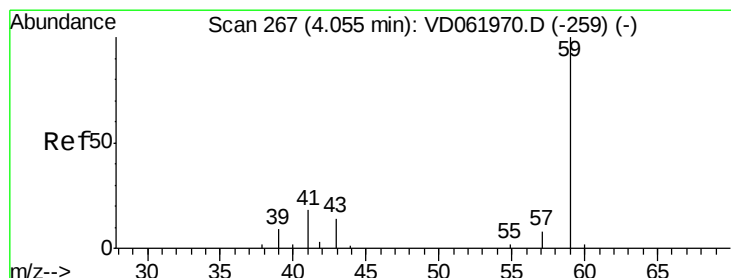
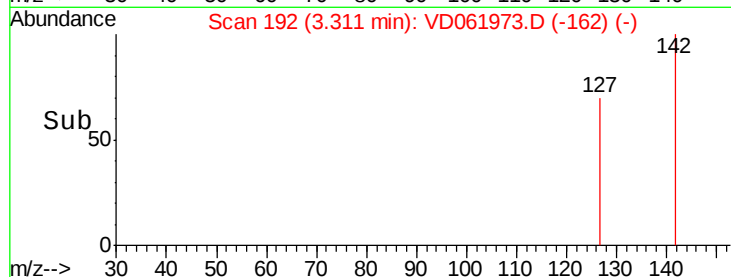
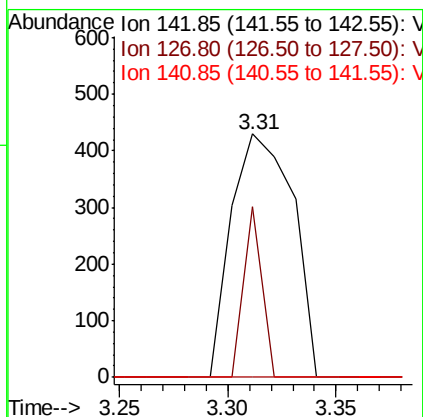
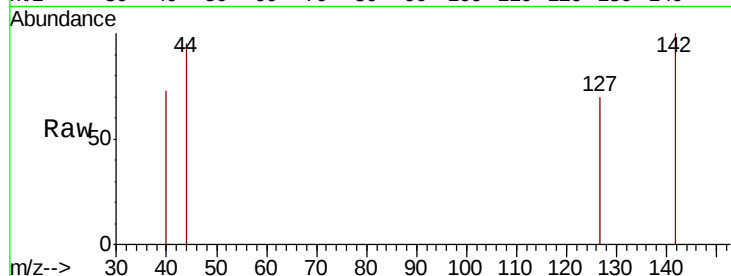




#10
Methyl Iodide
Concen: 5.510 ug/l
RT: 3.31 min Scan# 192
Delta R.T. -0.01 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

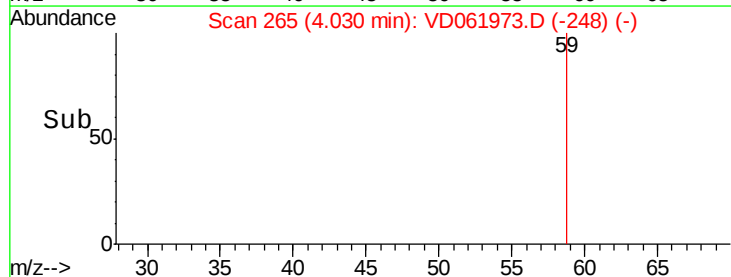
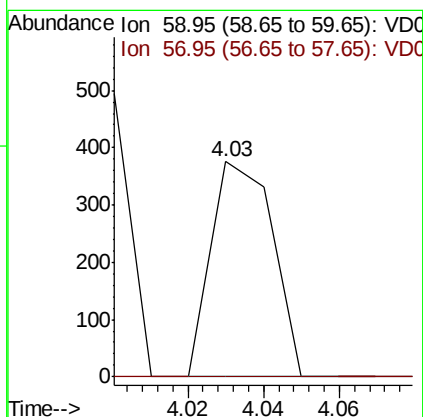
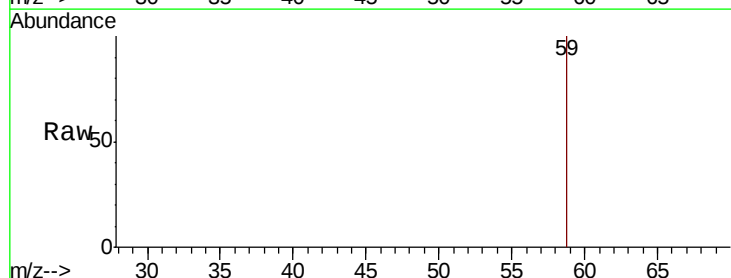
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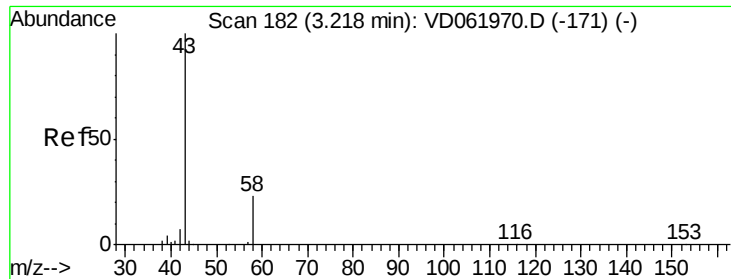
Tgt Ion:142 Resp: 849
Ion Ratio Lower Upper
142 100
127 70.0 38.8 58.2#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.481 ug/l
RT: 4.03 min Scan# 265
Delta R.T. -0.03 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Tgt Ion: 59 Resp: 417
Ion Ratio Lower Upper
59 100
57 0.0 6.9 10.3#





#16

Acetone

Concen: 22.468 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

Instrument :

MSVOA_D

ClientSampleId :

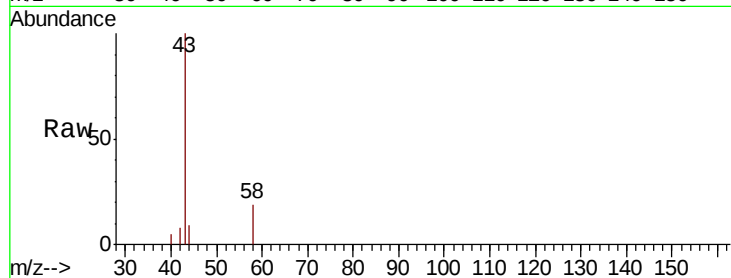
SU-02-041819-A

Tgt Ion: 43 Resp: 26728

Ion Ratio Lower Upper

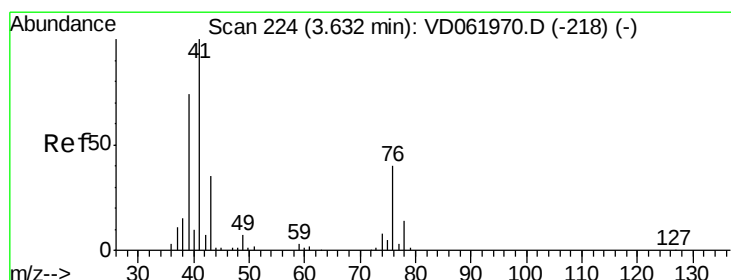
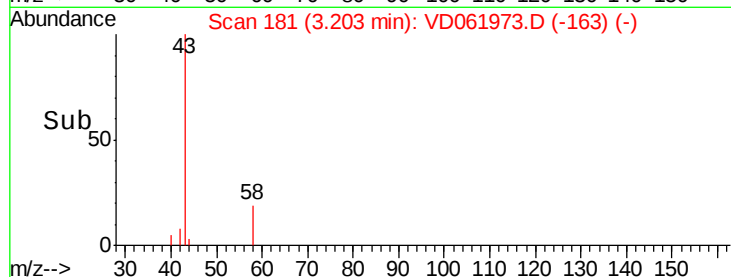
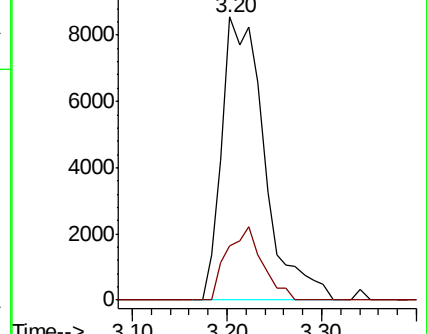
43 100

58 19.4 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD061973.D

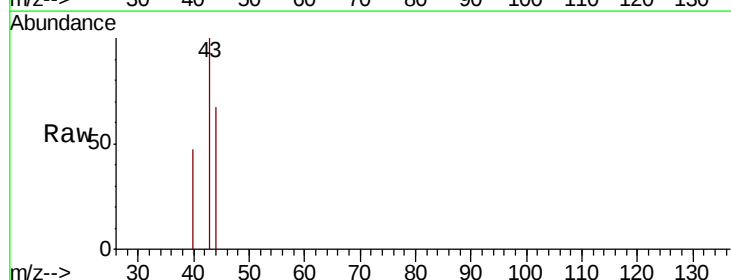
Acq: 23 Apr 2019 16:40

Tgt Ion: 43 Resp: 1687

Ion Ratio Lower Upper

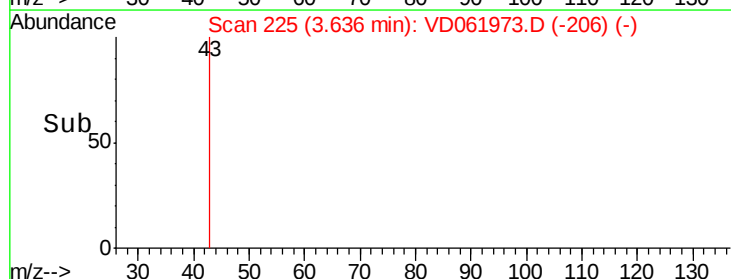
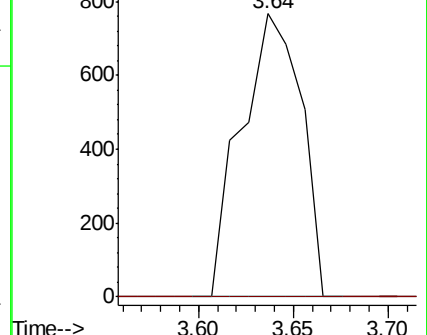
43 100

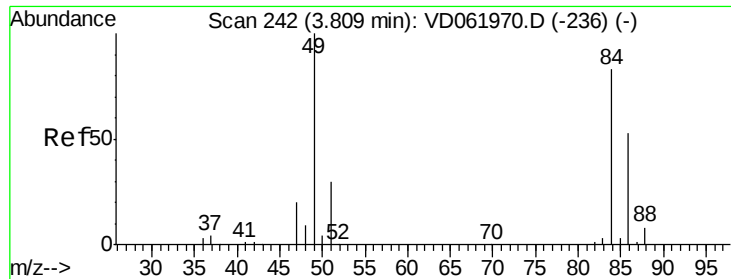
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

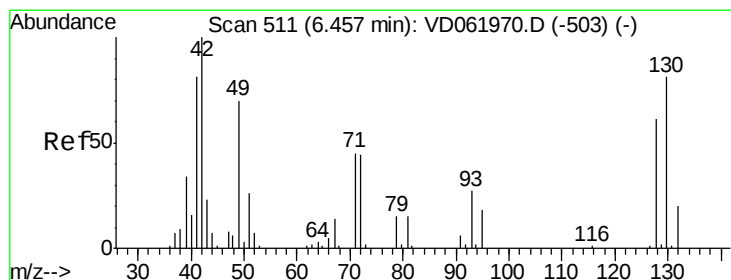
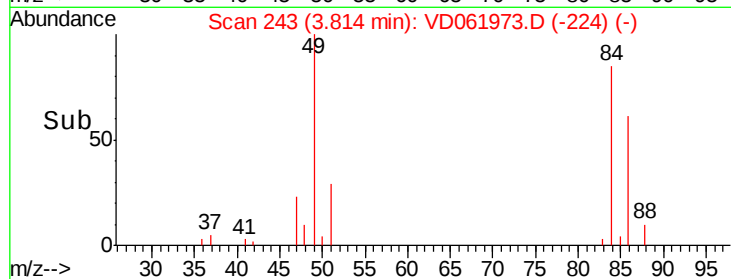
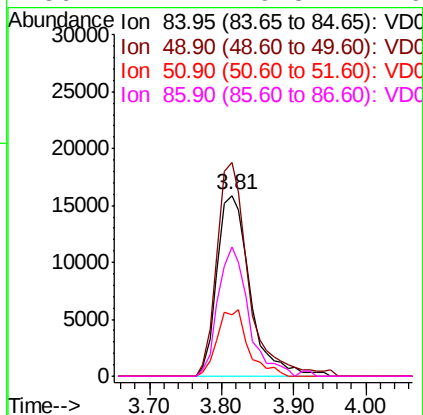
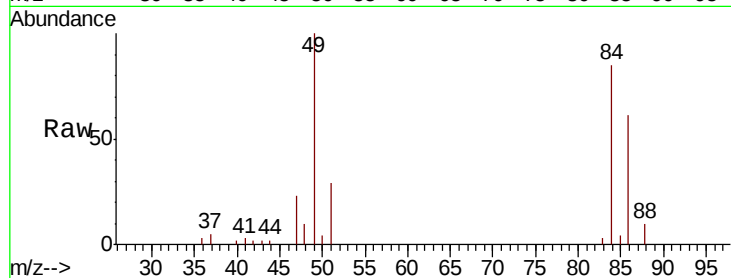




#20
Methylene Chloride
Concen: 5.861 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

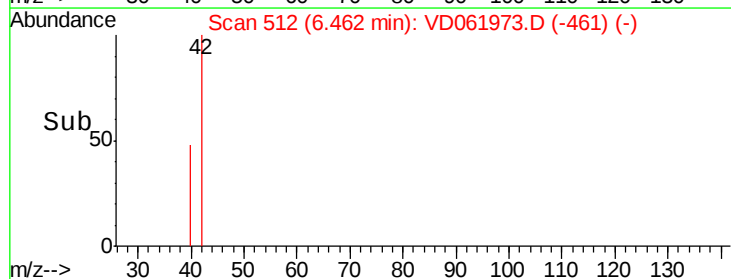
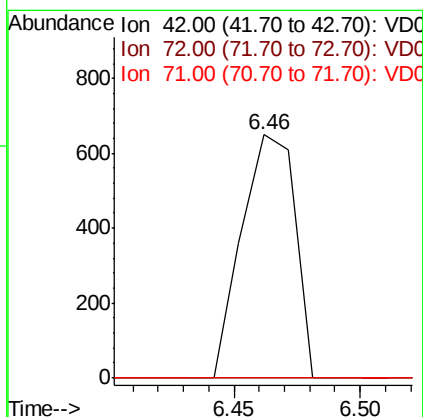
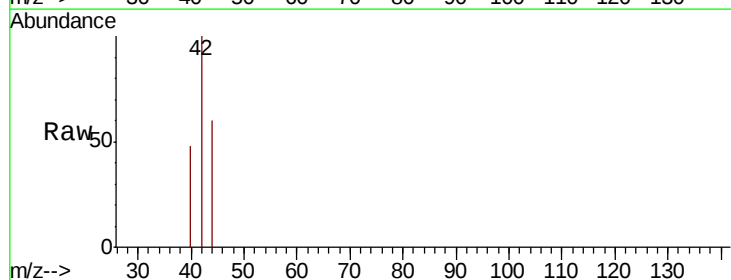
Instrument :
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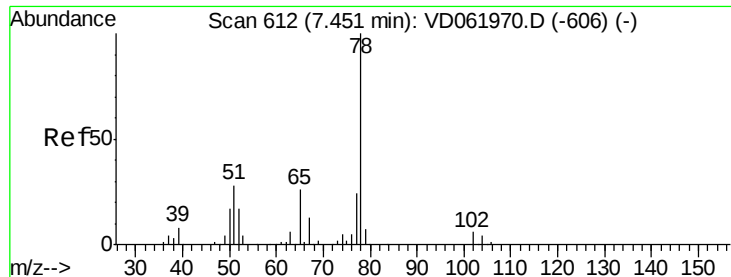
Tgt Ion: 84 Resp: 50248
Ion Ratio Lower Upper
84 100
49 118.1 94.0 141.0
51 33.7 29.0 43.4
86 71.7 49.8 74.6



#29
Tetrahydrofuran
Concen: 1.345 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.00 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Tgt Ion: 42 Resp: 956
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 36.7 55.1#

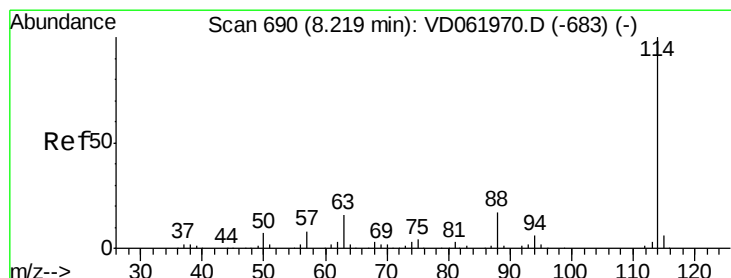
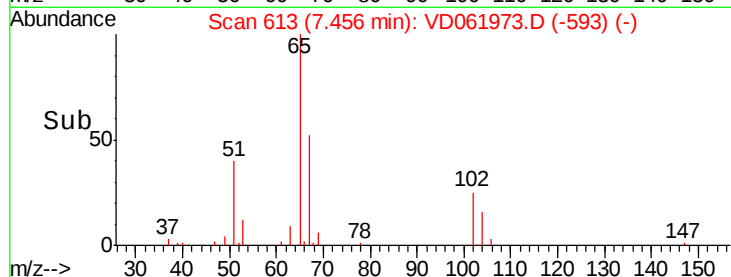
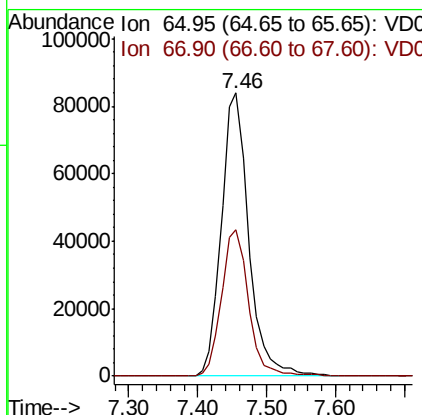
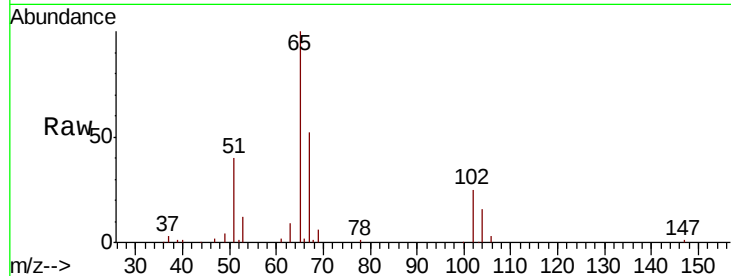




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VD061973.D
 Acq: 23 Apr 2019 16:40

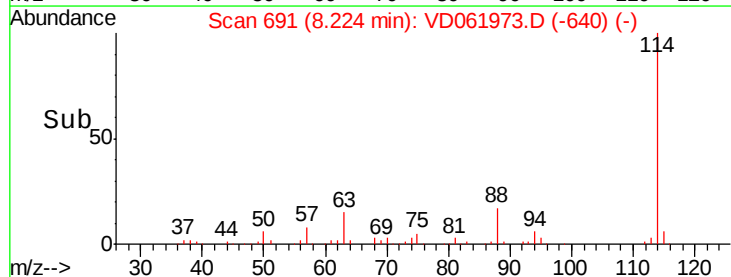
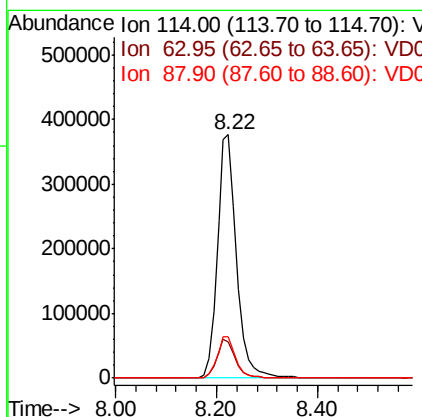
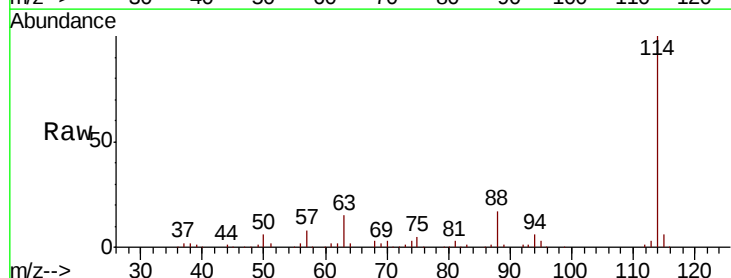
Instrument :
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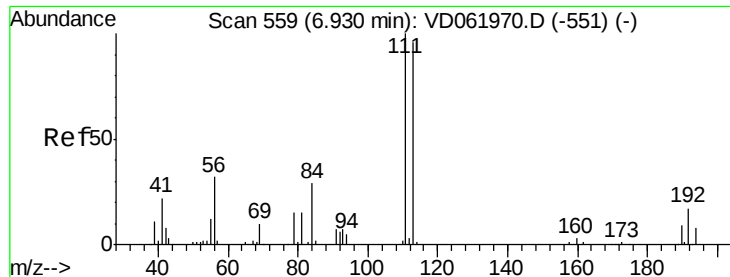
Tgt Ion: 65 Resp: 231430
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061973.D
 Acq: 23 Apr 2019 16:40

Tgt Ion: 114 Resp: 995716
 Ion Ratio Lower Upper
 114 100
 63 15.1 0.0 32.4
 88 17.0 0.0 33.6

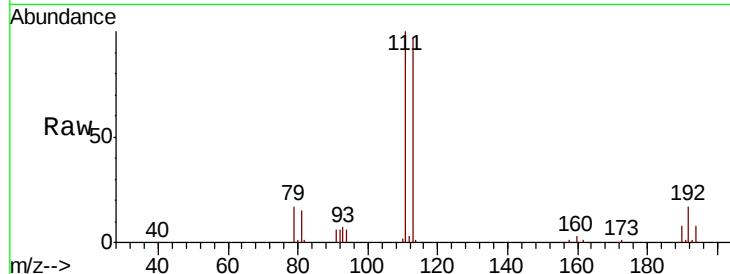




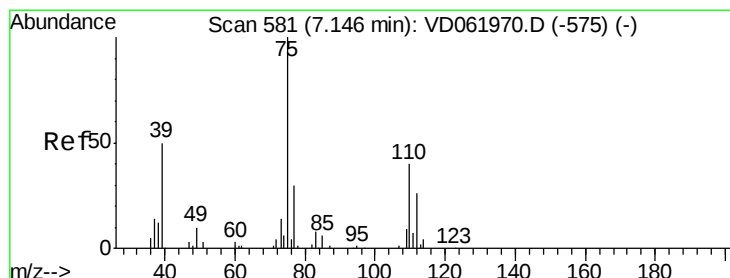
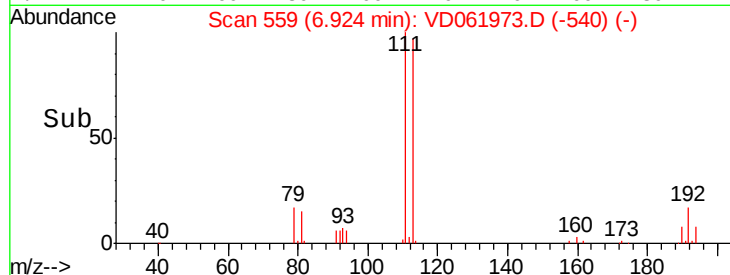
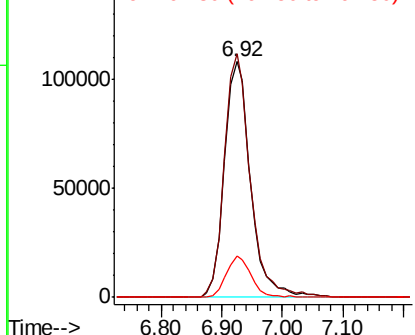
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD061973.D
 Acq: 23 Apr 2019 16:40

Instrument :
 MSVOA_D
 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	78.5	117.7
192	17.8	13.0	19.4

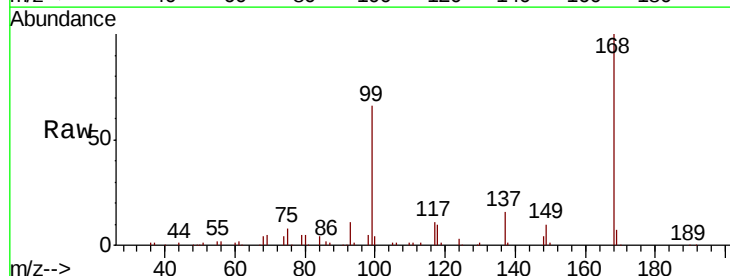


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

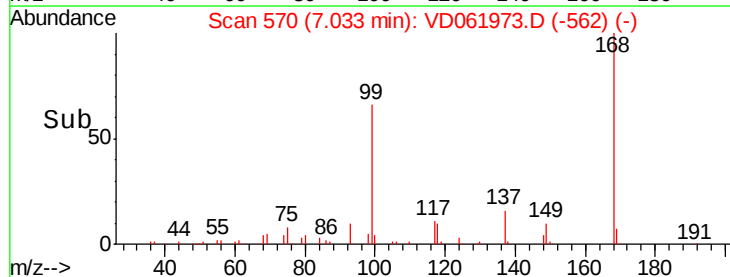
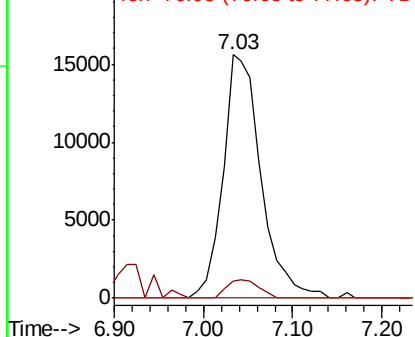


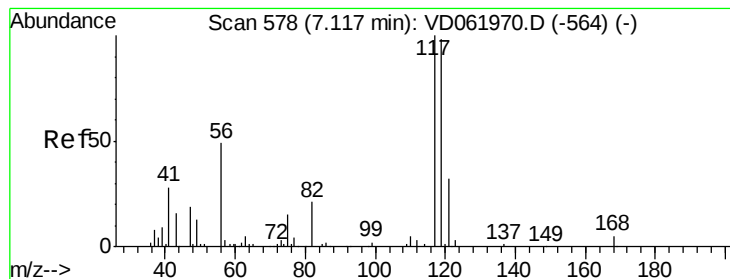
#36
 1,1-Dichloropropene
 Concen: 5.977 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.12 min
 Lab File: VD061973.D
 Acq: 23 Apr 2019 16:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	19.1	57.1#
77	0.0	25.6	38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.398 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

Instrument :

MSVOA_D

ClientSampleId :

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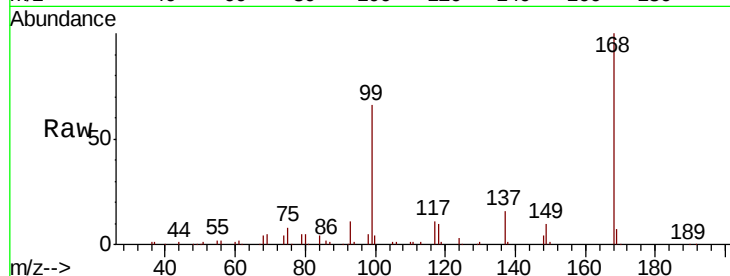
Tgt Ion:117 Resp: 62896

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.8#

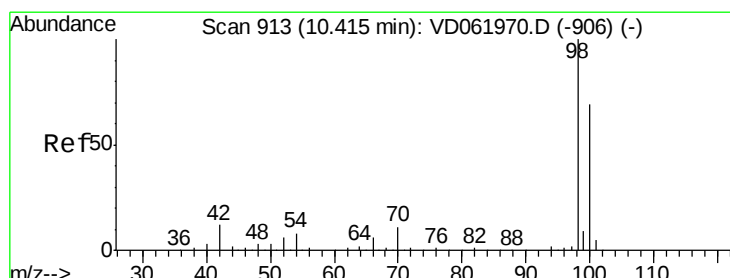
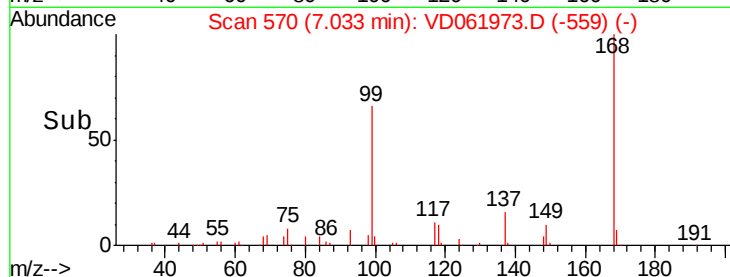
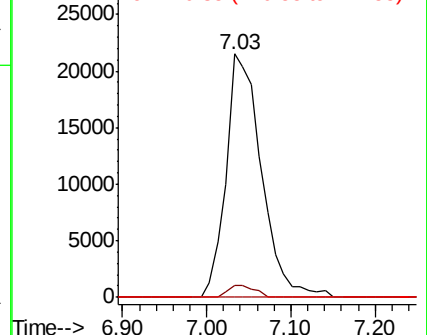
121 0.0 25.9 38.9#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD061973.D

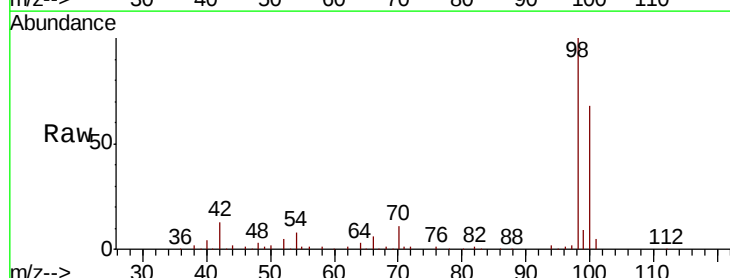
Acq: 23 Apr 2019 16:40

Tgt Ion: 98 Resp: 564571

Ion Ratio Lower Upper

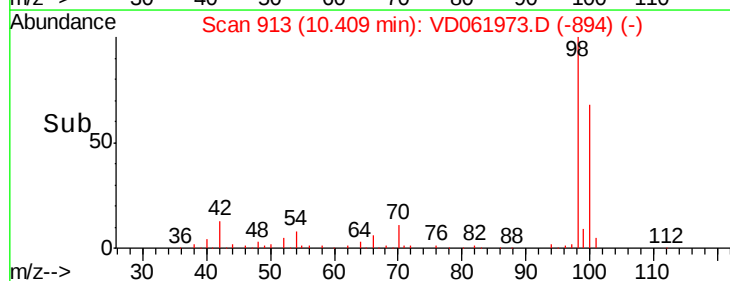
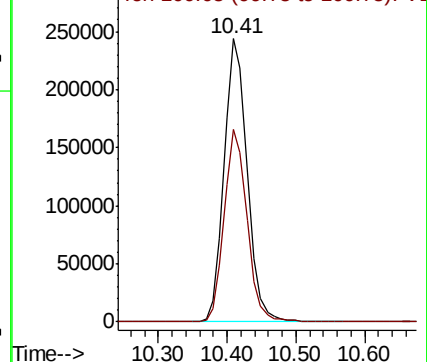
98 100

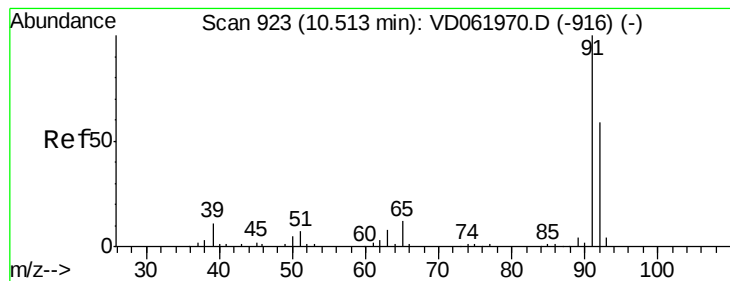
100 68.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 4.629 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

Instrument :

MSVOA_D

ClientSampleId :

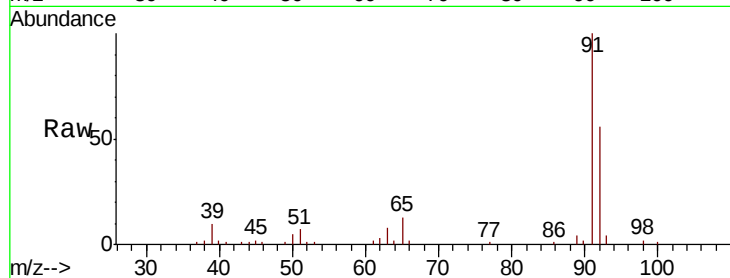
SU-02-041819-A

Tgt Ion: 92 Resp: 56690

Ion Ratio Lower Upper

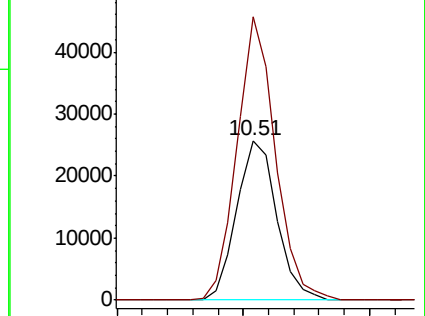
92 100

91 177.6 136.6 204.8

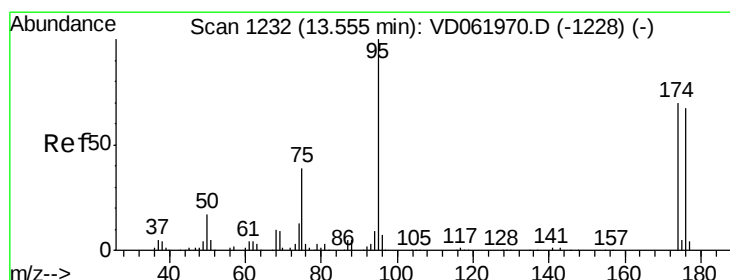
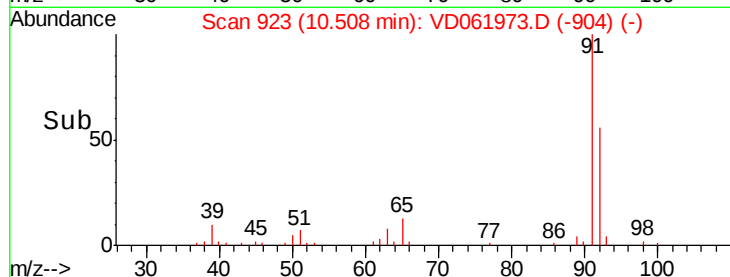


Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



Time--> 10.40 10.50 10.60



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

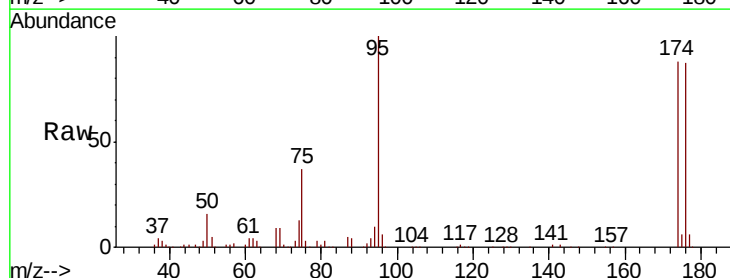
Tgt Ion: 95 Resp: 296500

Ion Ratio Lower Upper

95 100

174 88.0 0.0 181.8

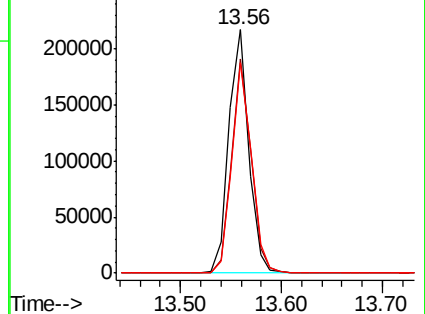
176 86.6 0.0 174.4



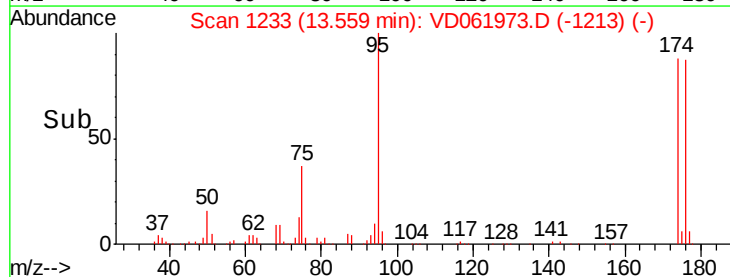
Abundance Ion 95.00 (94.70 to 95.70): VDC

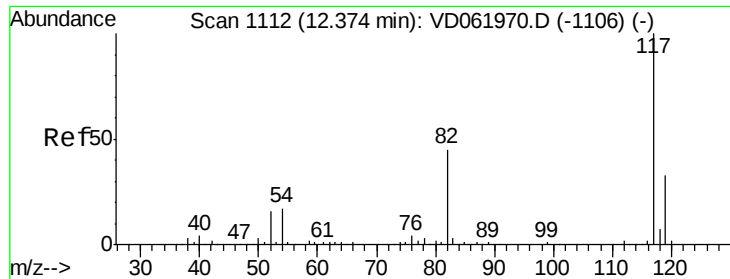
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



Time--> 13.50 13.60 13.70

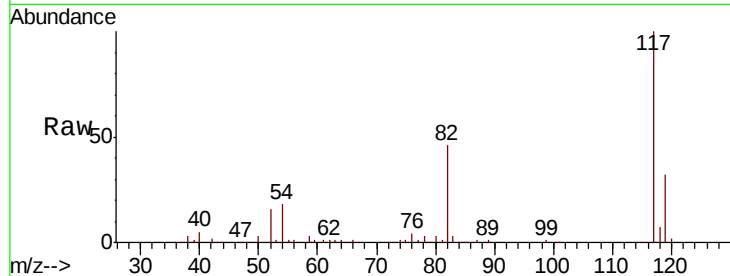




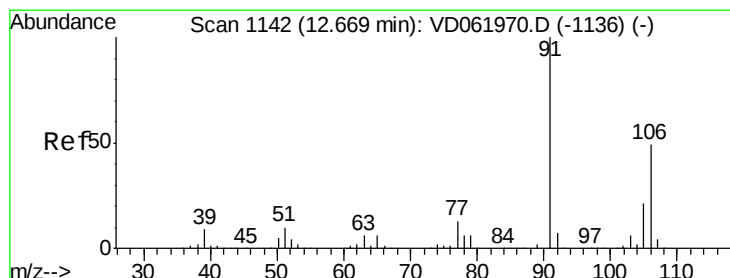
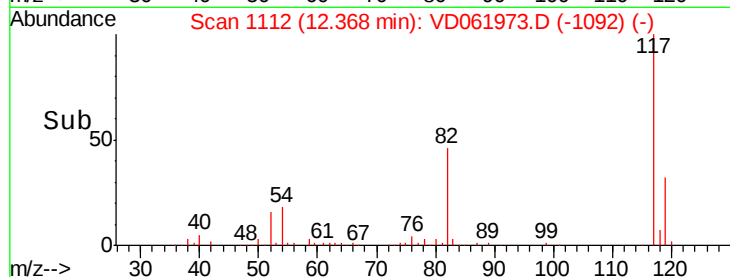
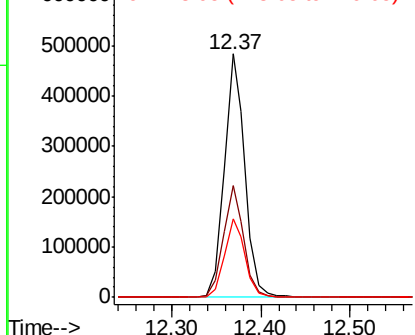
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Instrument :
MSVOA_D
ClientSampleId :
SU-02-041819-A

Tgt Ion:117 Resp: 782150
Ion Ratio Lower Upper
117 100
82 45.8 36.2 54.2
119 32.3 26.2 39.4

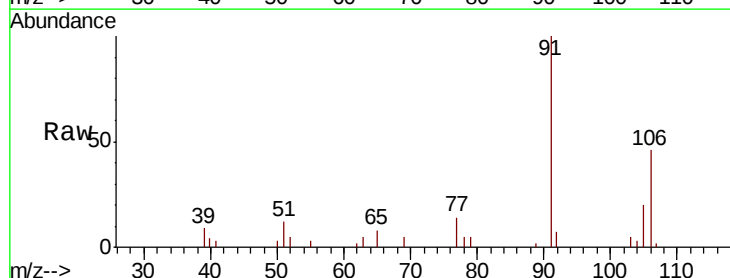


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

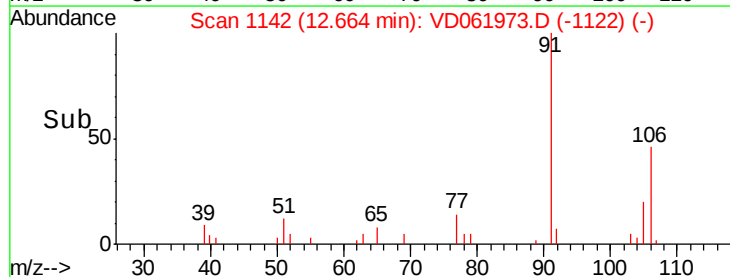
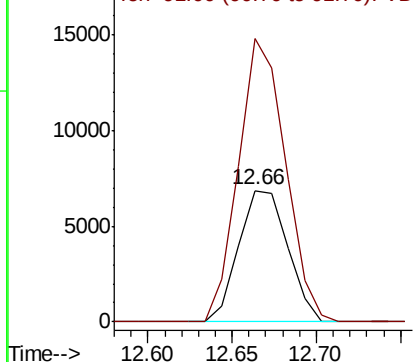


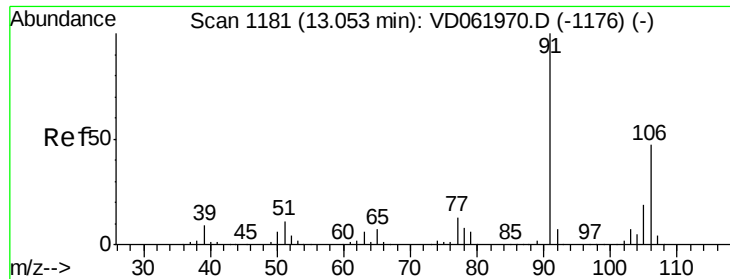
#68
m/p-Xylenes
Concen: 1.589 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Tgt Ion:106 Resp: 13853
Ion Ratio Lower Upper
106 100
91 215.8 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

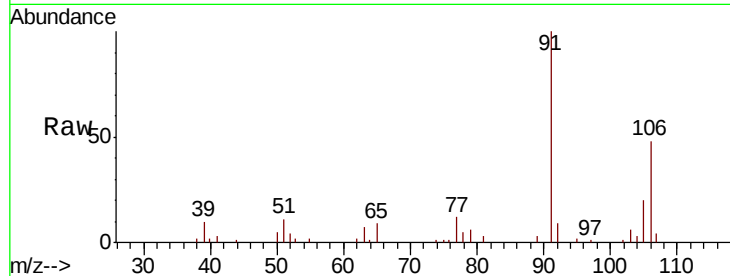




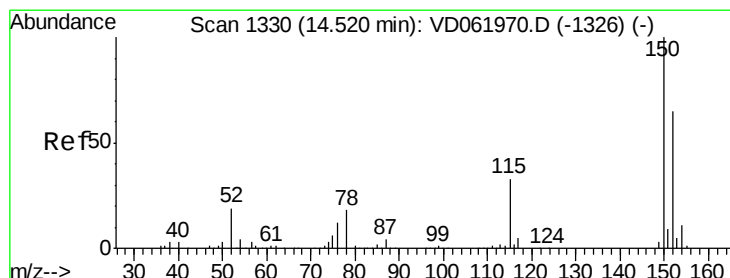
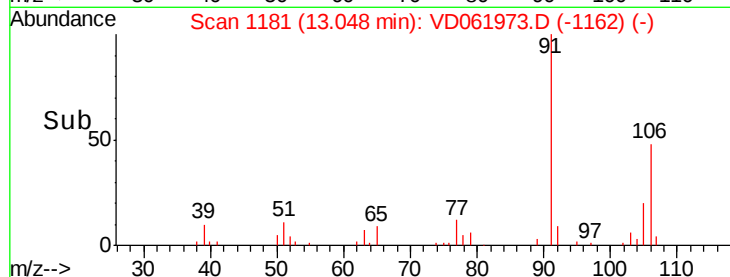
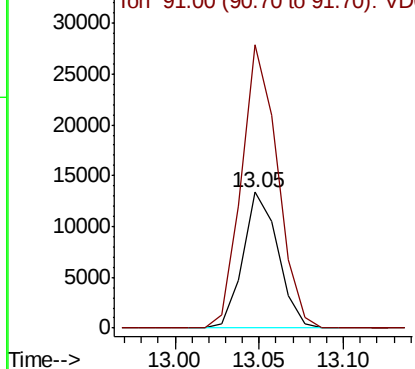
#69
o-Xylene
Concen: 2.415 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Instrument :
MSVOA_D
ClientSampleId :
SU-02-041819-A

Tgt Ion:106 Resp: 19263
Ion Ratio Lower Upper
106 100
91 208.0 106.7 319.9

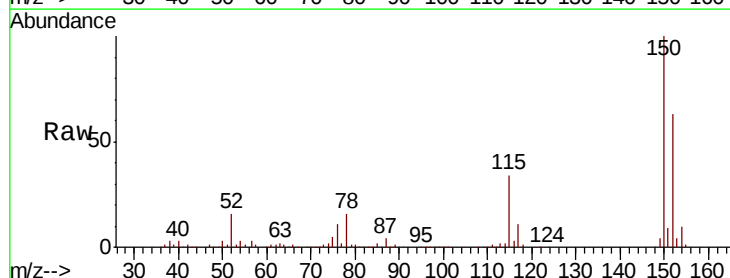


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

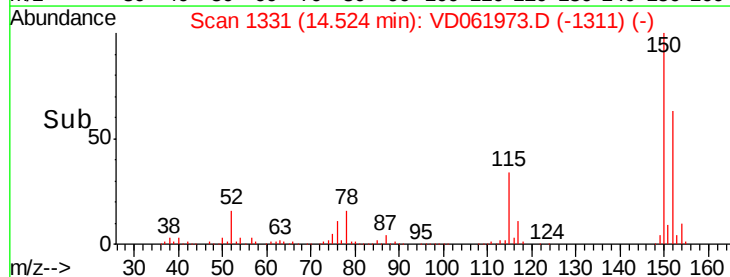
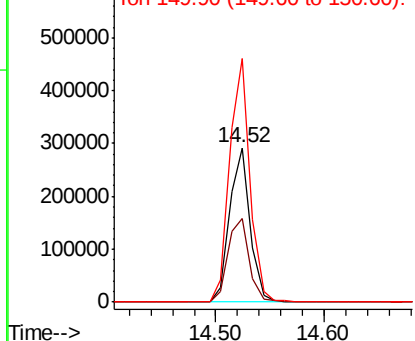


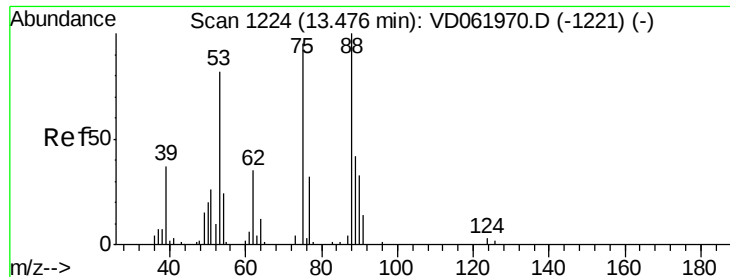
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.00 min
Lab File: VD061973.D
Acq: 23 Apr 2019 16:40

Tgt Ion:152 Resp: 383698
Ion Ratio Lower Upper
152 100
115 54.1 30.9 92.7
150 157.6 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 75.829 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

Instrument :

MSVOA_D

ClientSampleId :

SU-02-041819-A

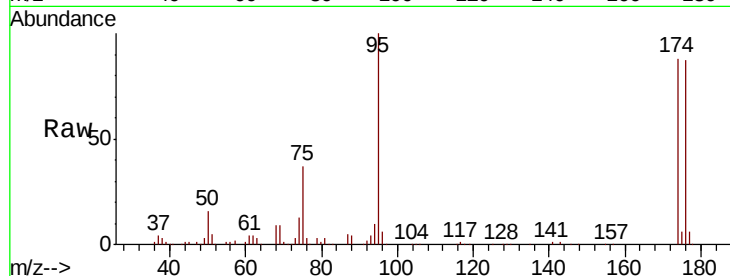
Tgt Ion: 75 Resp: 111963

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

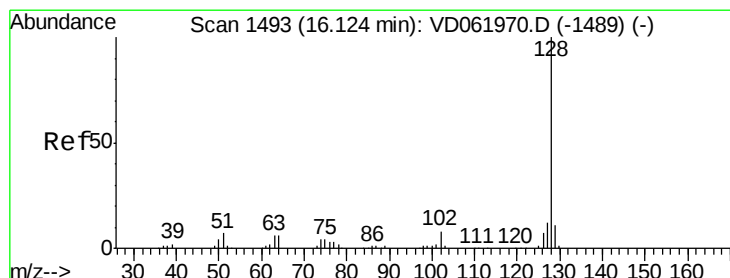
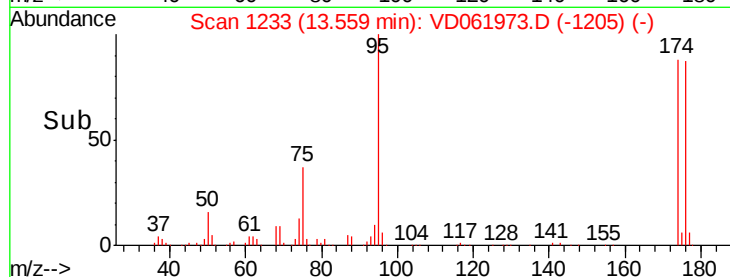
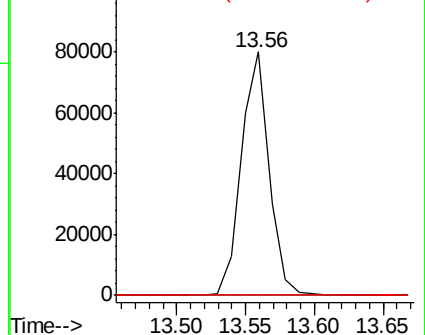
89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 1.099 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VD061973.D

Acq: 23 Apr 2019 16:40

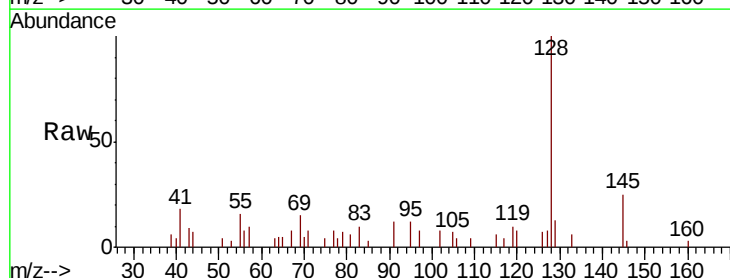
Tgt Ion: 128 Resp: 10156

Ion Ratio Lower Upper

128 100

127 7.6 9.8 14.8#

129 12.6 8.8 13.2



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

