

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030819\
 Data File : VD060982.D
 Acq On : 8 Mar 2019 14:27
 Operator : VA/AP
 Sample : K1760-19RE
 Misc : 6.25g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 Z2-12

Quant Time: Mar 08 22:05:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	832384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1457721	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1242568	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	538931	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	417074	60.20	ug/l	0.00
Spiked Amount			Recovery	=	120.40%	
35) Dibromofluoromethane	6.92	113	619505	57.27	ug/l	0.00
Spiked Amount			Recovery	=	114.54%	
50) Toluene-d8	10.41	98	1482971	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
62) 4-Bromofluorobenzene	13.55	95	527295	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	

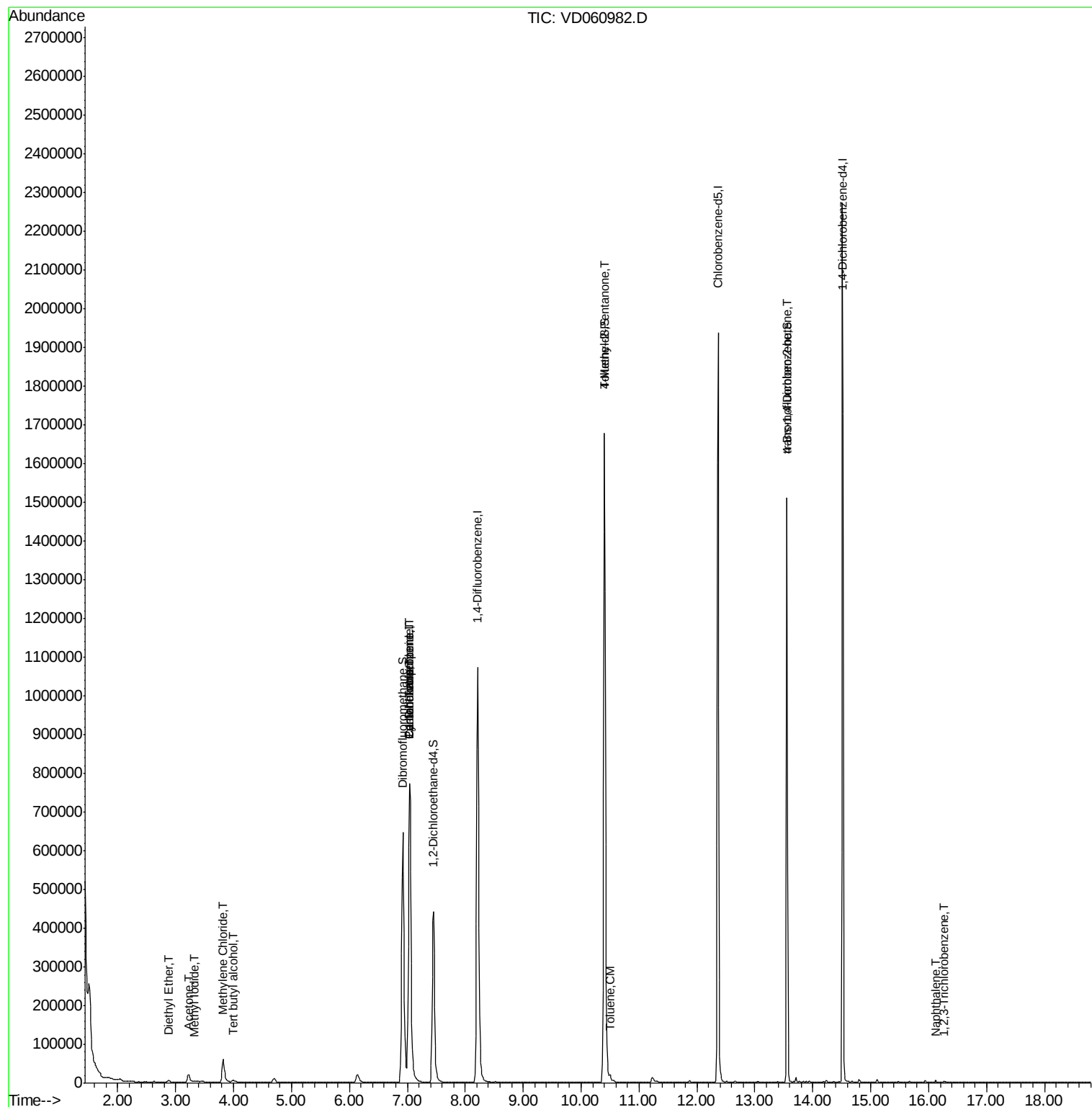
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	493	Below Cal	#	1
8) Diethyl Ether	2.87	74	1952	0.649	ug/l	92
10) Methyl Iodide	3.33	142	2808	3.122	ug/l #	87
11) Tert butyl alcohol	3.99	59	5771	13.083	ug/l #	75
16) Acetone	3.23	43	47763	24.107	ug/l	99
20) Methylene Chloride	3.82	84	46178	0.494	ug/l	87
31) Cyclohexane	7.04	56	14829	1.209	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	60439	4.810	ug/l #	46
38) Carbon Tetrachloride	7.04	117	79083	5.714	ug/l #	15
51) 4-Methyl-2-Pentanone	10.40	43	6641	1.327	ug/l #	1
52) Toluene	10.50	92	6865	0.352	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.55	75	191088	83.595	ug/l #	17
95) Naphthalene	16.12	128	4591	0.441	ug/l #	94
96) 1,2,3-Trichlorobenzene	16.26	180	1052	0.311	ug/l #	92

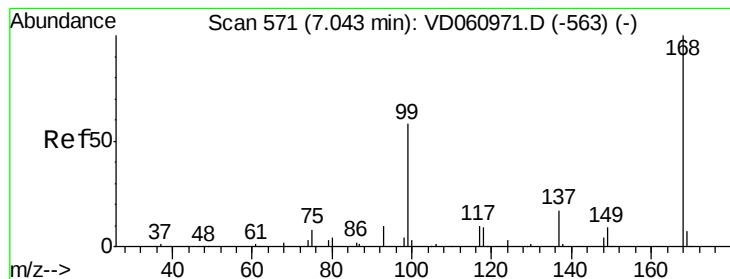
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

Instrument :

MSVOA_D

ClientSampled :

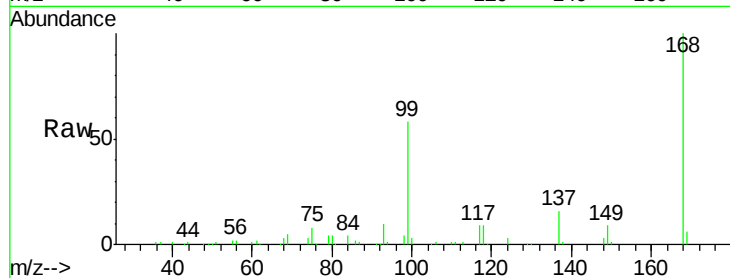
Z2-12

Tot Ion:168 Resp: 832384

Ion Ratio Lower Upper

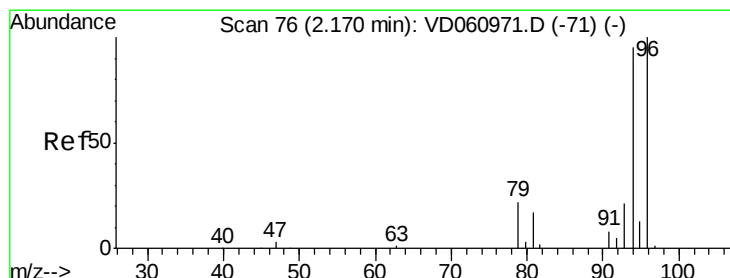
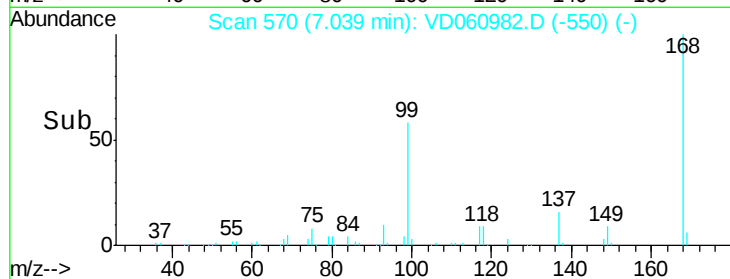
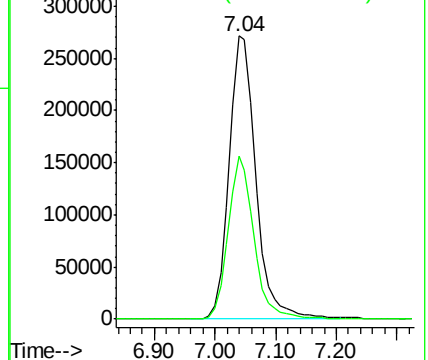
168 100

99 57.7 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

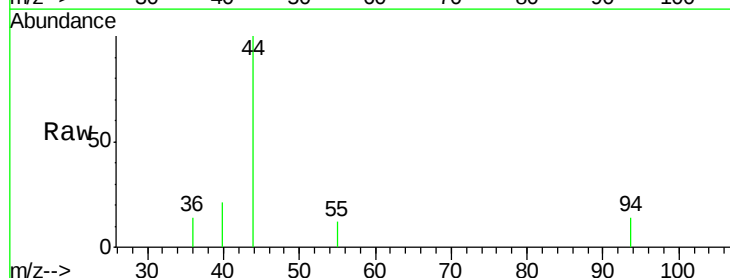
Tgt Ion: 94 Resp: 493

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

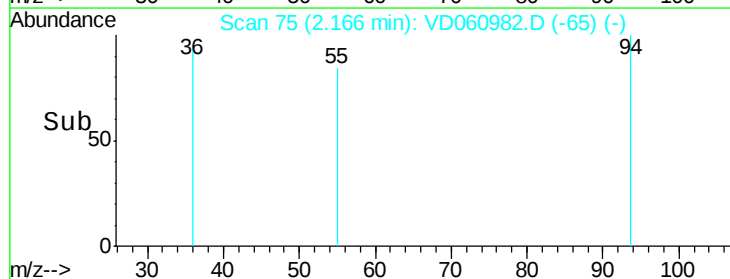
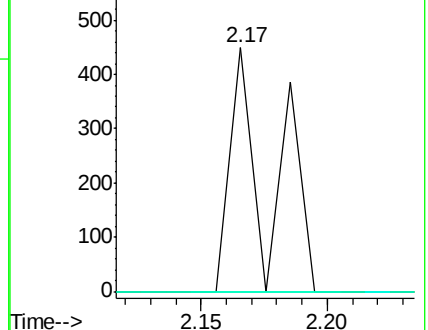
93 100.0 17.3 25.9#

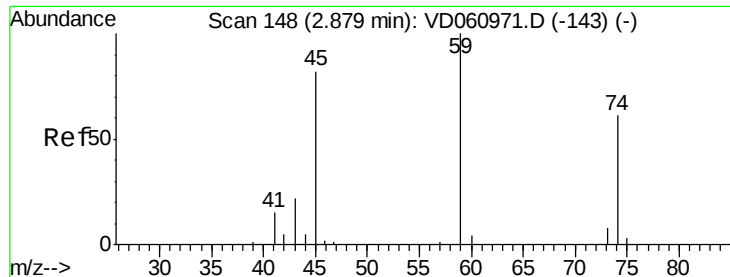


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#8

Diethyl Ether

Concen: 0.649 ug/l

RT: 2.87 min Scan# 147

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

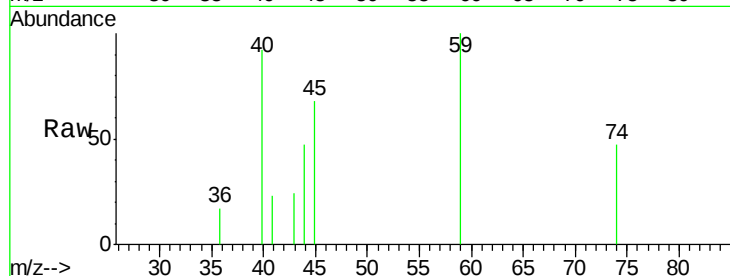
Z2-12

Tot Ion: 74 Resp: 1952

Ion Ratio Lower Upper

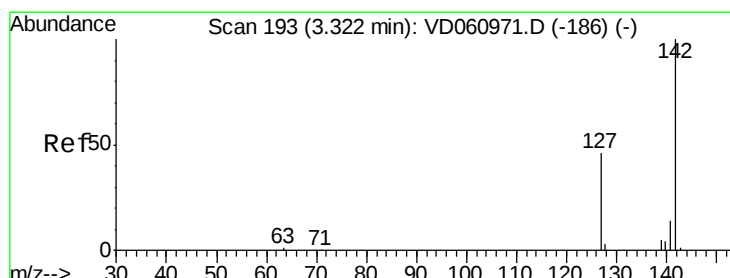
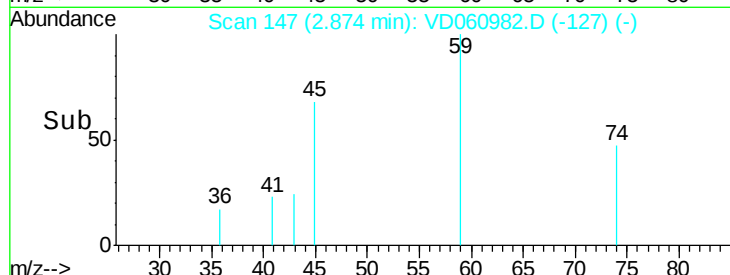
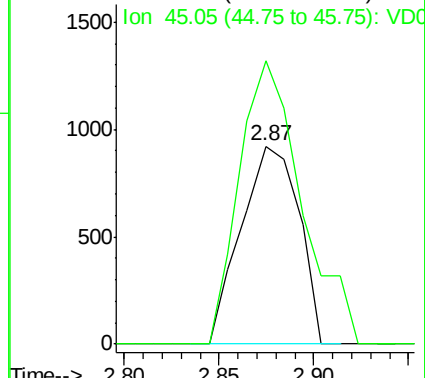
74 100

45 143.1 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 3.122 ug/l

RT: 3.33 min Scan# 193

Delta R.T. 0.01 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

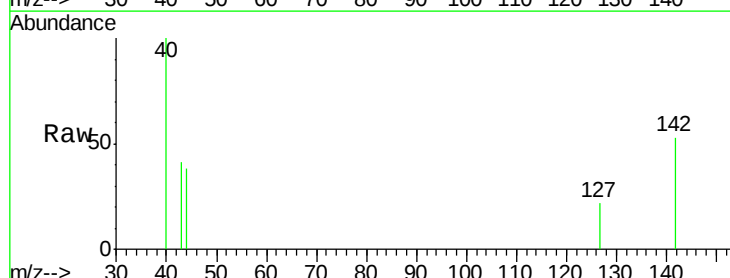
Tgt Ion: 142 Resp: 2808

Ion Ratio Lower Upper

142 100

127 41.6 36.8 55.2

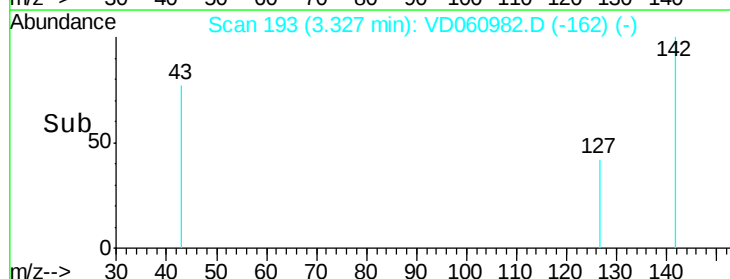
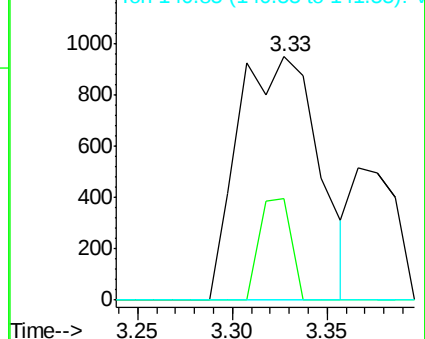
141 0.0 11.2 16.8#

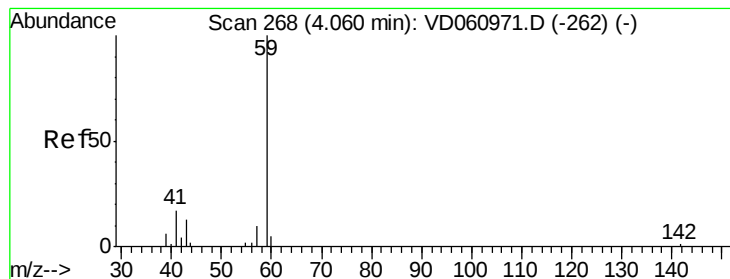


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



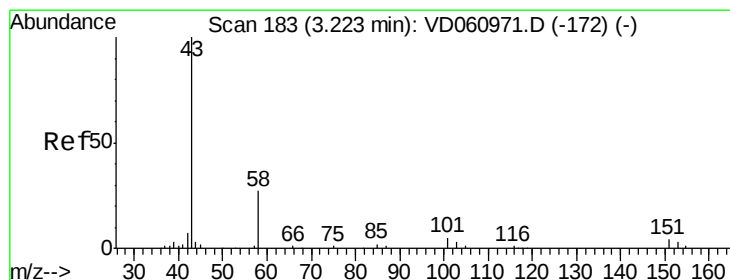
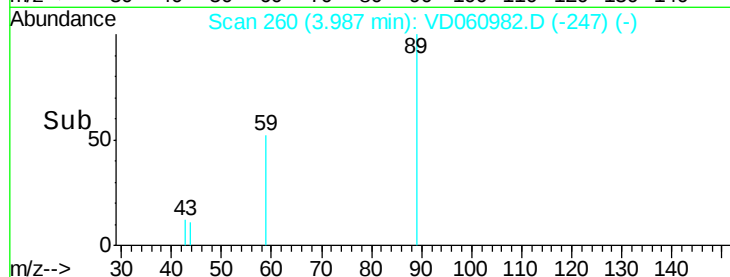
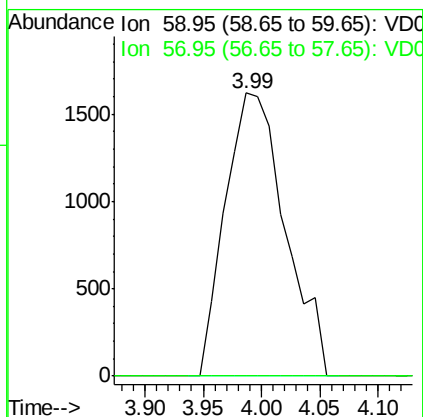
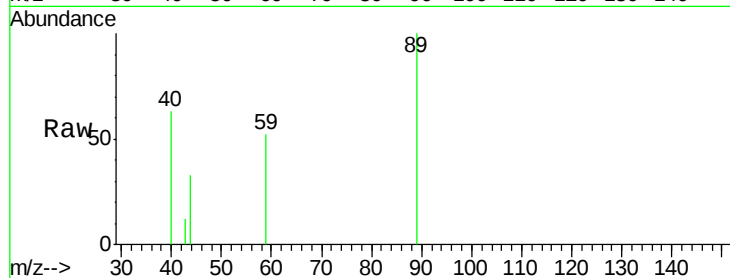


#11

Tert butyl alcohol
 Concen: 13.083 ug/l
 RT: 3.99 min Scan# 260
 Delta R.T. -0.07 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

Instrument :
 MSVOA_D
 ClientSampled :
 Z2-12

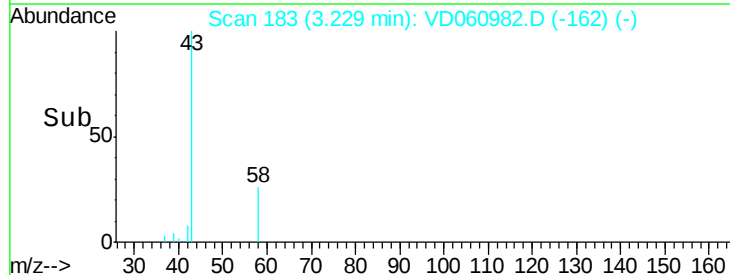
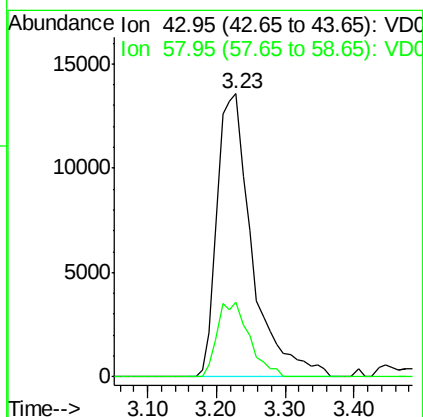
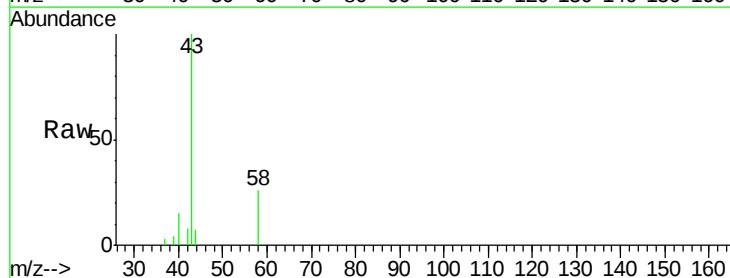
Tot Ion: 59 Resp: 5771
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.1 10.7#

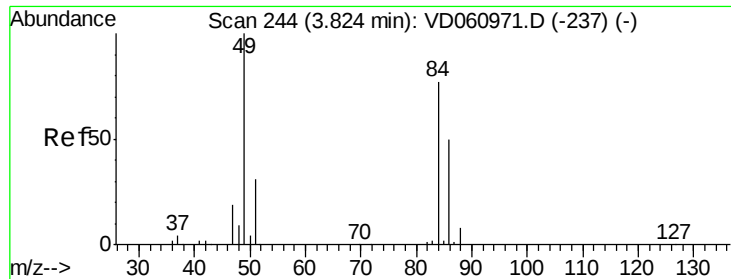


#16

Acetone
 Concen: 24.107 ug/l
 RT: 3.23 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

Tgt Ion: 43 Resp: 47763
 Ion Ratio Lower Upper
 43 100
 58 26.4 21.6 32.4

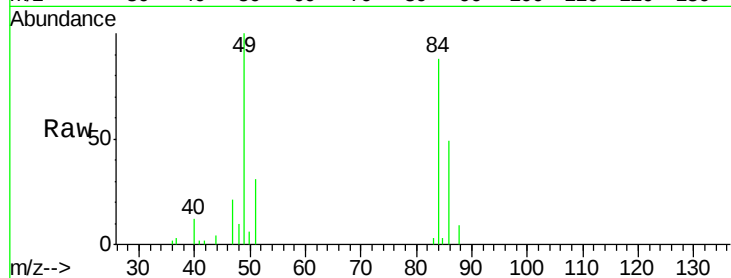




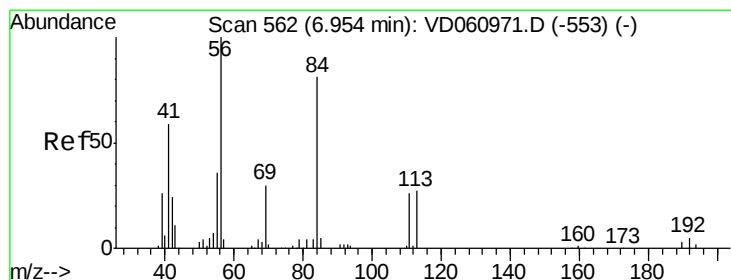
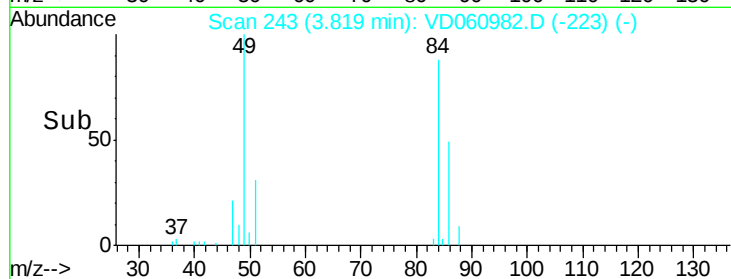
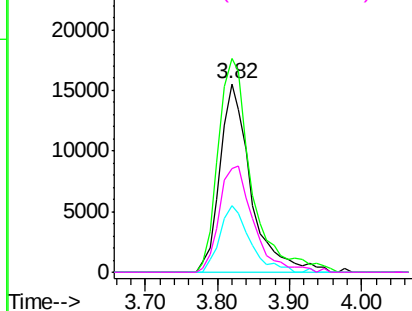
#20
Methvlene Chloride
Concen: 0.494 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

Instrument :
MSVOA_D
ClientSampled :
Z2-12

Tot Ion:	84	Resp:	46178
Ion	Ratio	Lower	Upper
84	100		
49	113.5	104.2	156.2
51	35.4	32.3	48.5
86	55.2	52.3	78.5

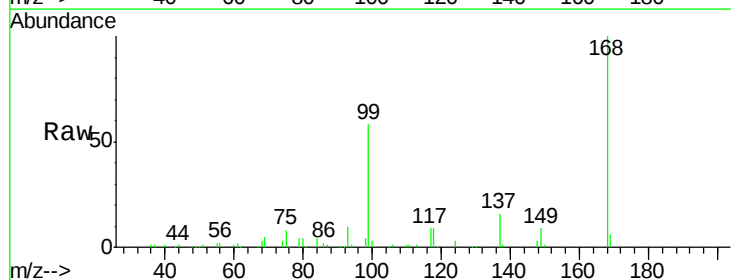


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

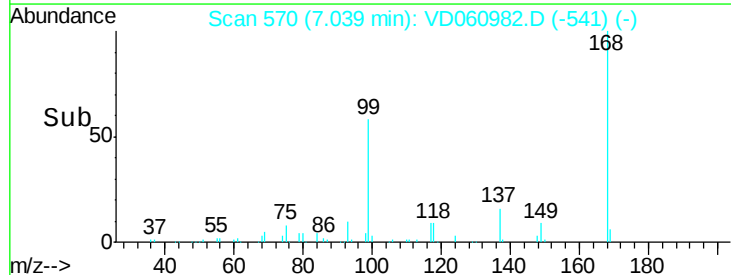
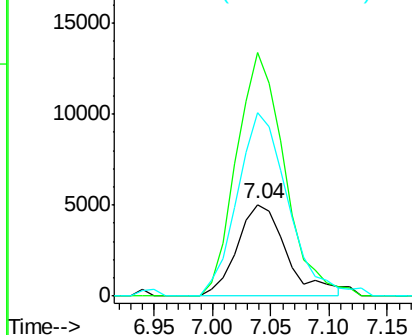


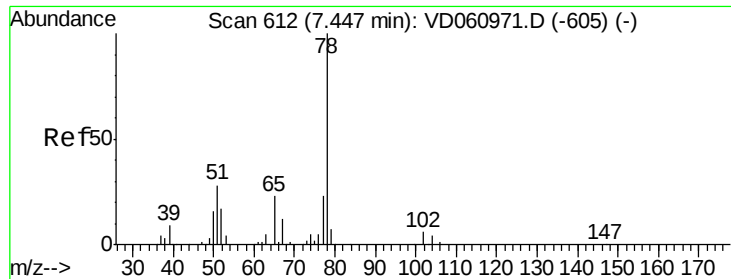
#31
Cyclohexane
Concen: 1.209 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.08 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

Tgt Ion:	56	Resp:	14829
Ion	Ratio	Lower	Upper
56	100		
69	266.1	24.0	36.0#
84	199.9	65.8	98.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

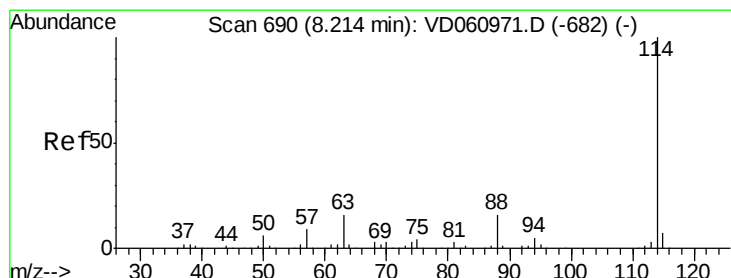
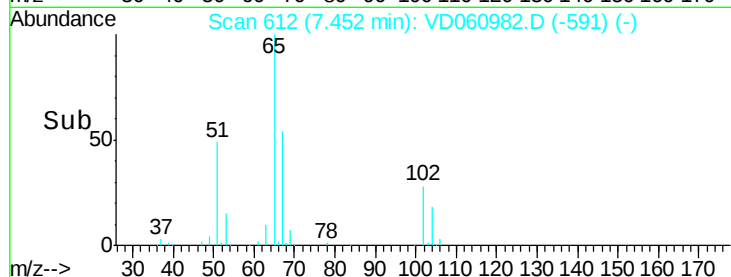
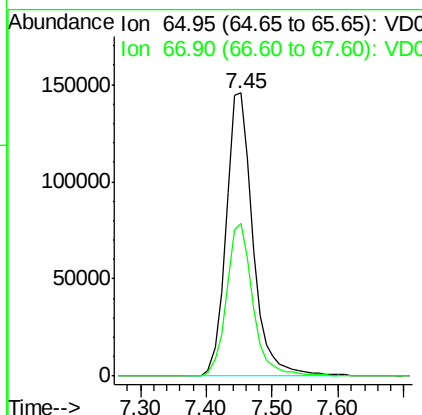
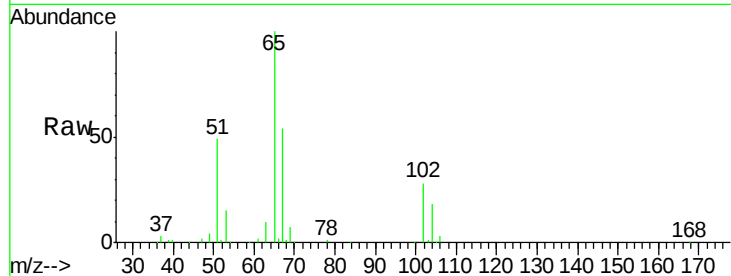




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

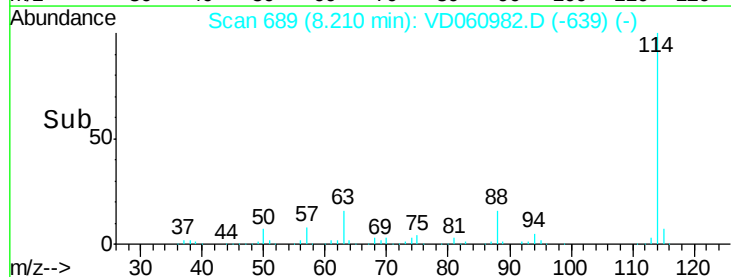
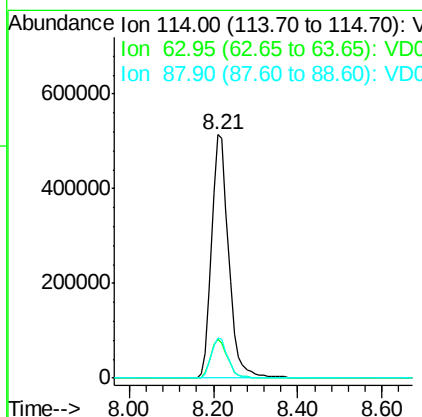
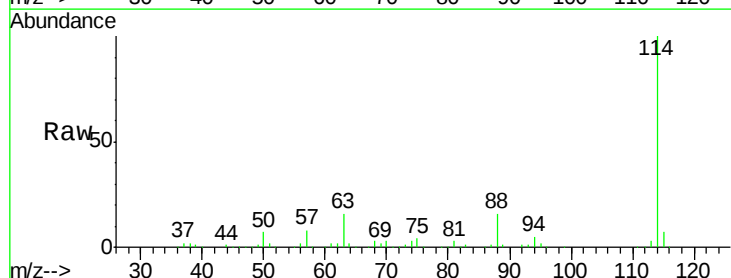
Instrument :
 MSVOA_D
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 Z2-12

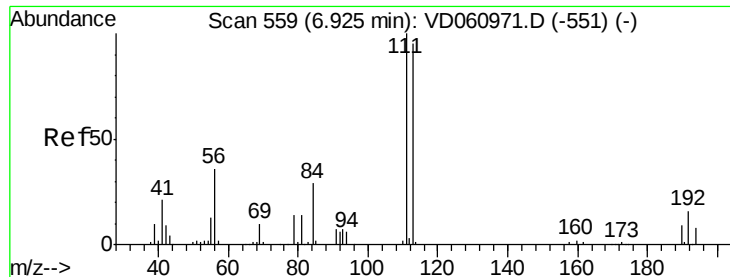
Tot Ion: 65 Resp: 417074
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.00 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

Tgt Ion: 114 Resp: 1457721
 Ion Ratio Lower Upper
 114 100
 63 15.8 0.0 31.4
 88 16.2 0.0 33.0

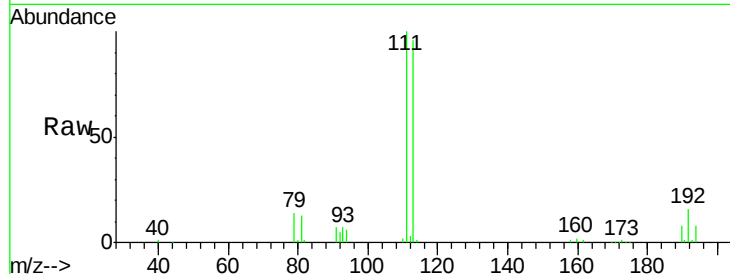




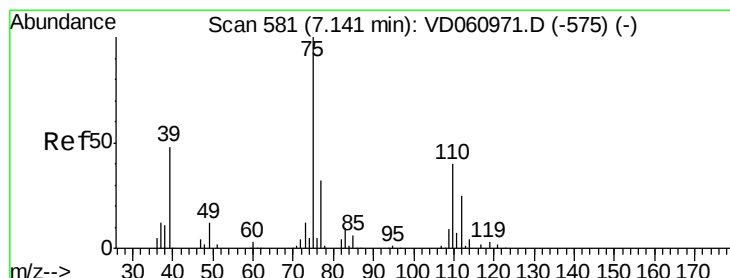
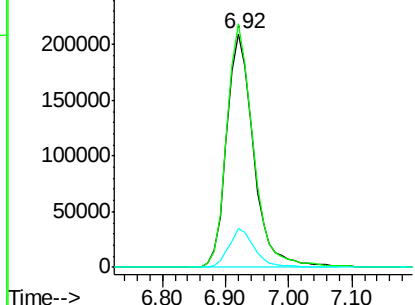
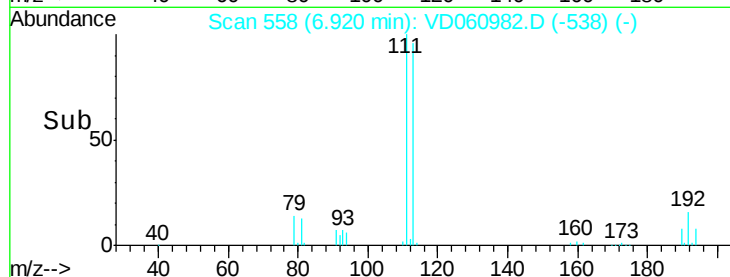
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.00 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

Instrument :
 MSVOA_D
 ClientSampled :
 Z2-12

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.3	84.2	126.4
192	16.9	13.1	19.7

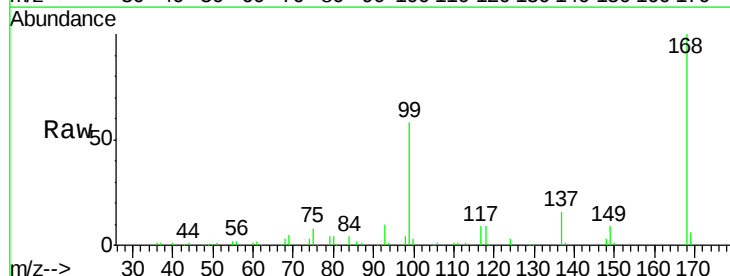


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

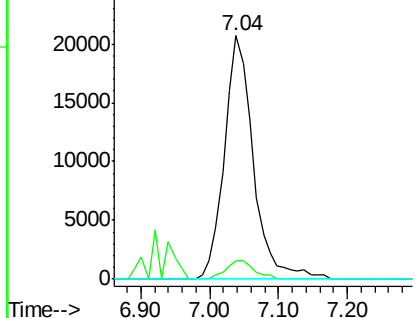
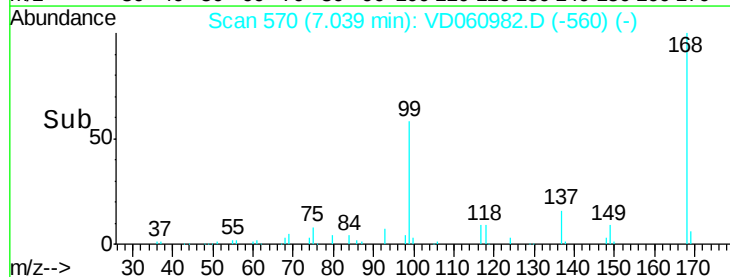


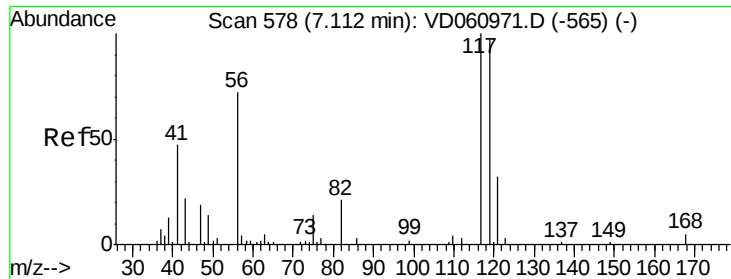
#36
 1,1-Dichloropropene
 Concen: 4.810 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD060982.D
 Acq: 8 Mar 2019 14:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	19.7	59.1#
77	0.0	24.7	37.1#



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

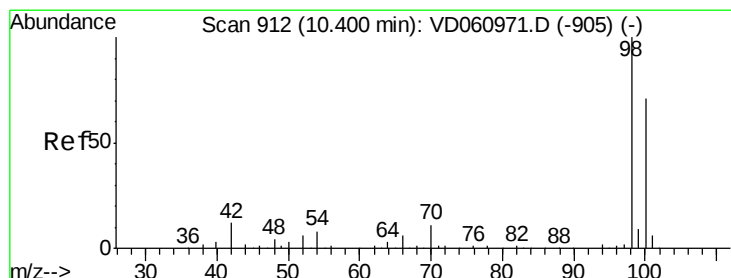
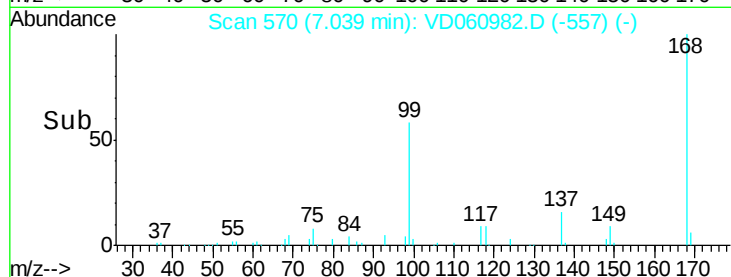
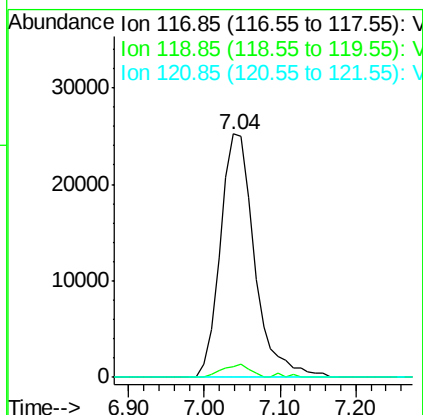
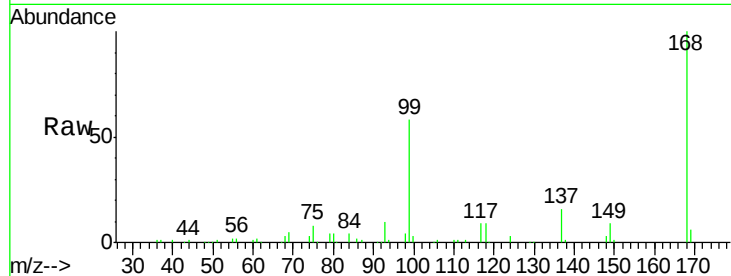




#38
Carbon Tetrachloride
Concen: 5.714 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

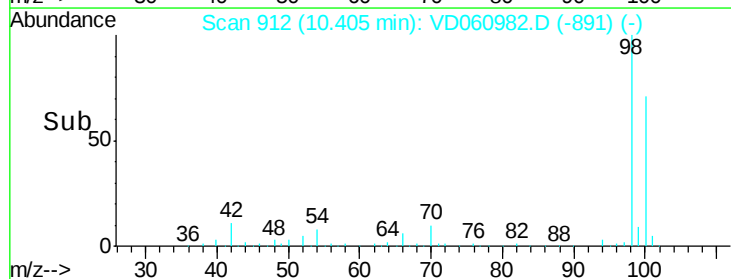
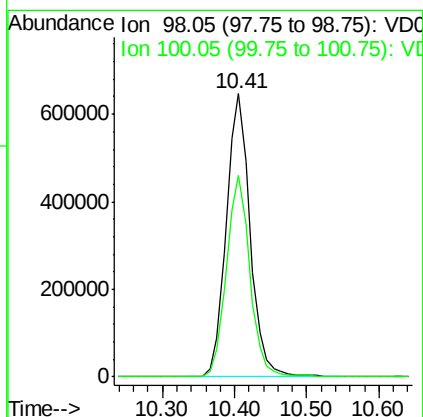
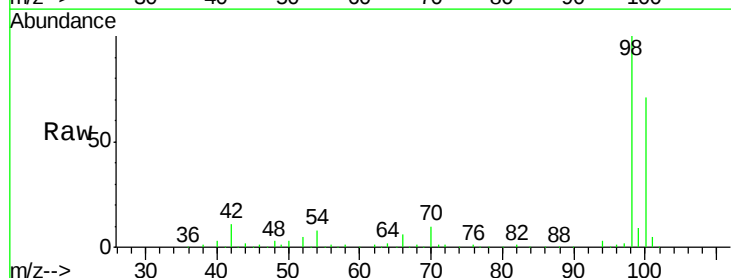
Instrument :
MSVOA_D
ClientSampled :
Z2-12

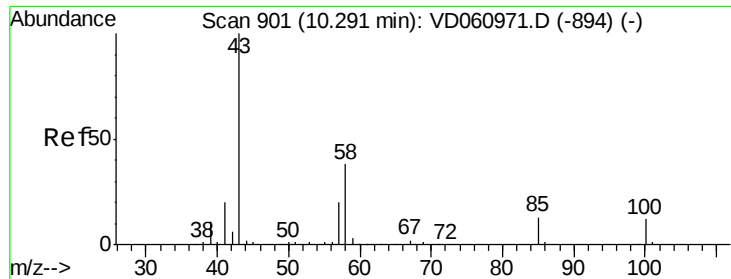
Tot Ion:117 Resp: 79083
Ion Ratio Lower Upper
117 100
119 4.6 77.8 116.8#
121 0.0 25.3 37.9#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

Tgt Ion: 98 Resp: 1482971
Ion Ratio Lower Upper
98 100
100 71.2 57.4 86.2





#51

4-Methyl-2-Pentanone

Concen: 1.327 ug/l

RT: 10.40 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

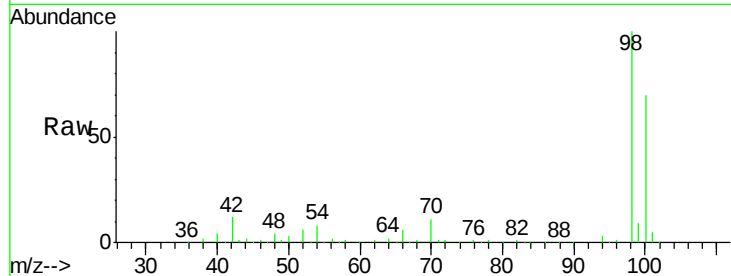
Z2-12

Tot Ion: 43 Resp: 6641

Ion Ratio Lower Upper

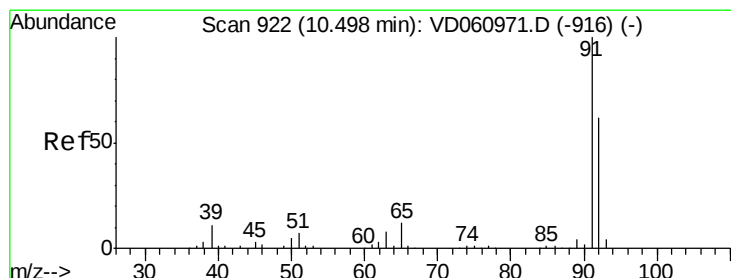
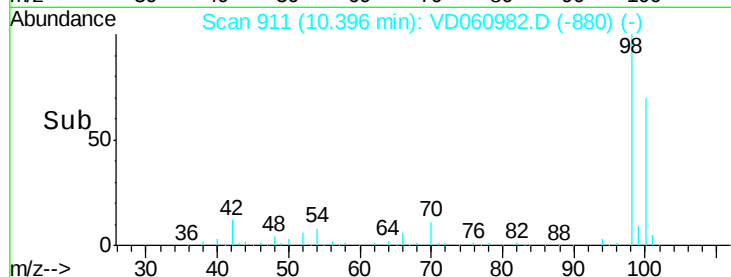
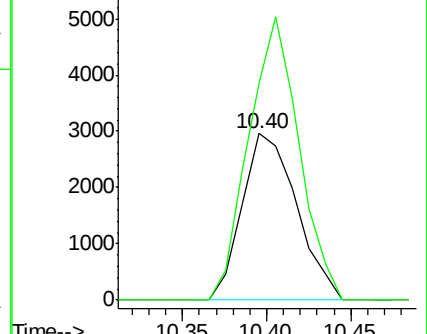
43 100

58 130.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 0.352 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD060982.D

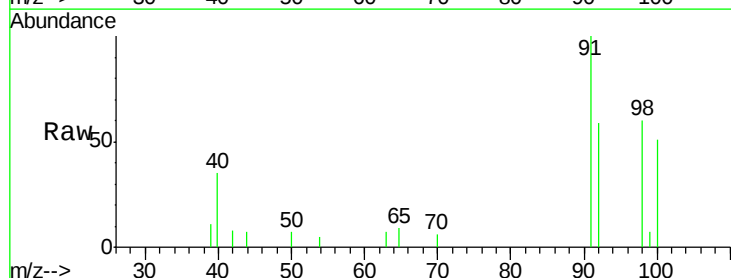
Acq: 8 Mar 2019 14:27

Tgt Ion: 92 Resp: 6865

Ion Ratio Lower Upper

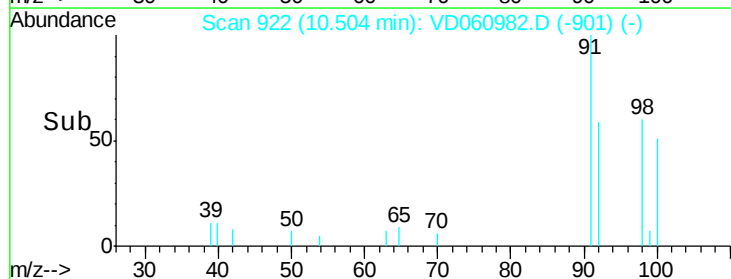
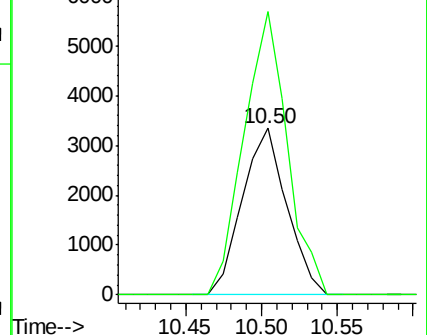
92 100

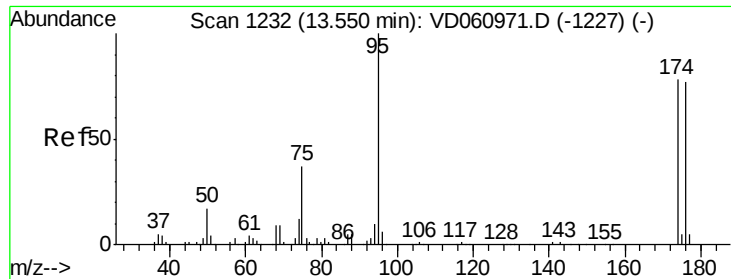
91 170.1 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

Instrument :

MSVOA_D

ClientSampled :

Z2-12

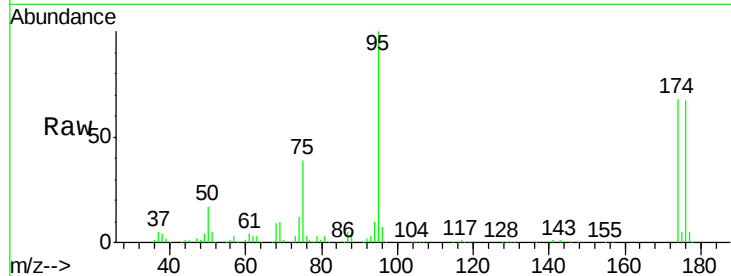
Tot Ion: 95 Resp: 527295

Ion Ratio Lower Upper

95 100

174 68.4 0.0 155.6

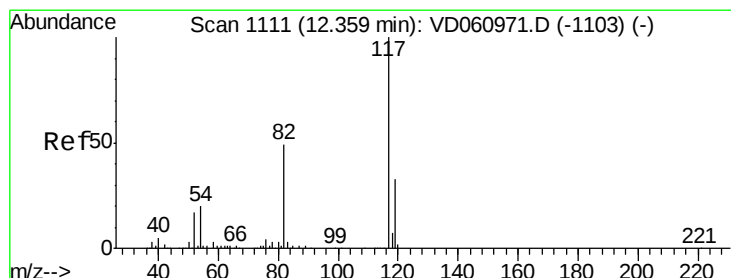
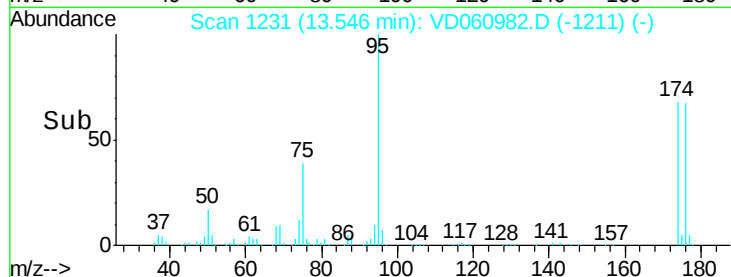
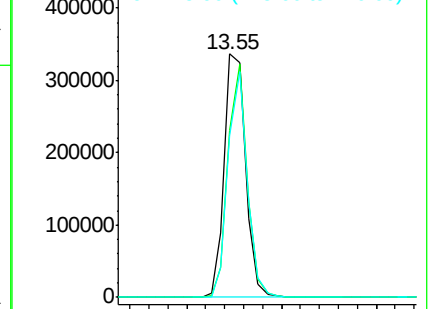
176 66.6 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

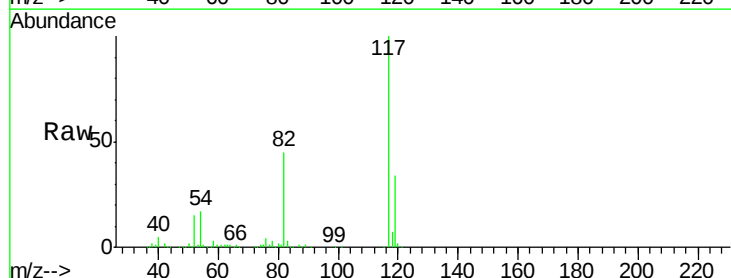
Tgt Ion: 117 Resp: 1242568

Ion Ratio Lower Upper

117 100

82 44.9 38.9 58.3

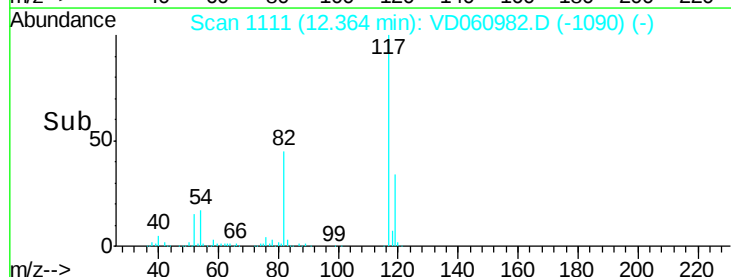
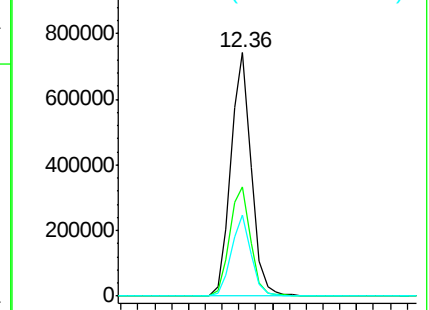
119 33.5 26.6 39.8

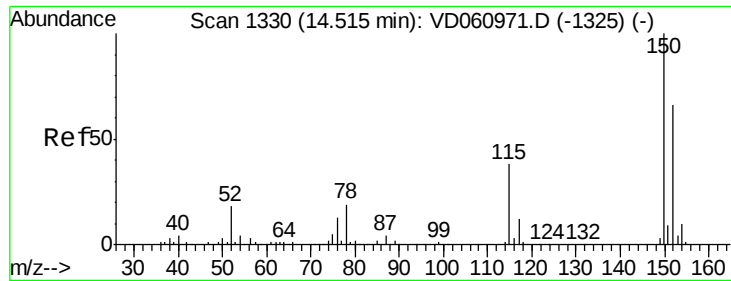


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



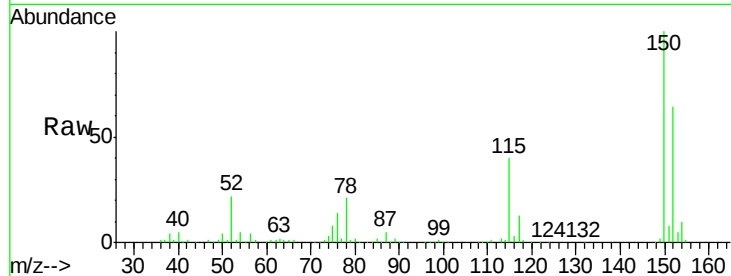


#72

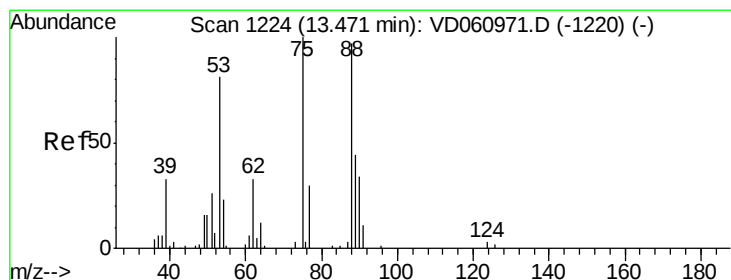
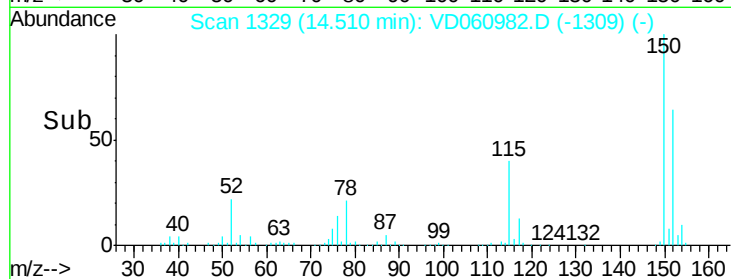
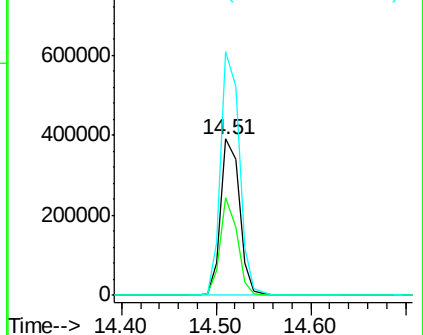
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

Instrument :
MSVOA_D
ClientSampled :
Z2-12

Tot Ion:152 Resp: 538931
Ion Ratio Lower Upper
152 100
115 62.3 28.6 85.9
150 156.1 0.0 310.6



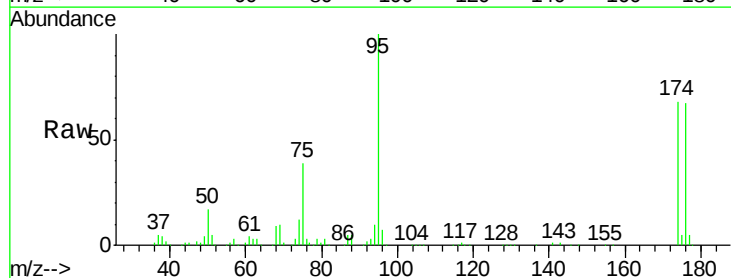
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



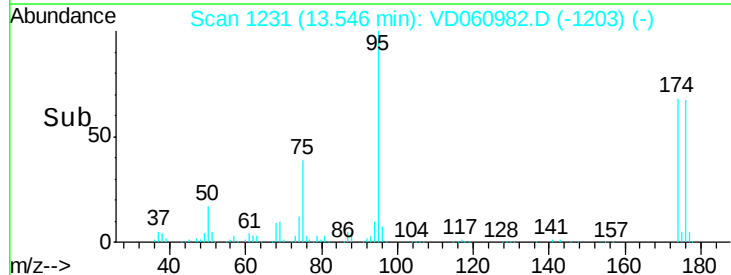
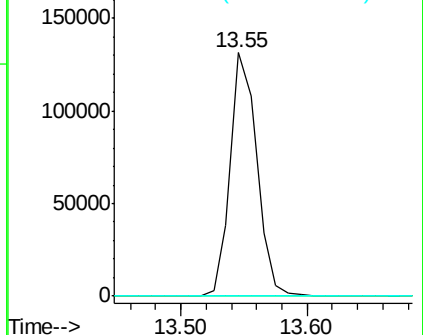
#81

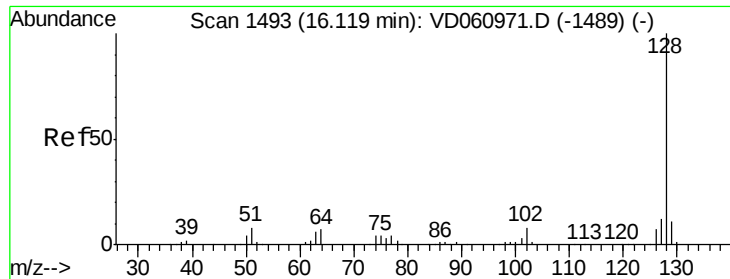
trans-1,4-Dichloro-2-butene
Concen: 83.595 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.07 min
Lab File: VD060982.D
Acq: 8 Mar 2019 14:27

Tgt Ion: 75 Resp: 191088
Ion Ratio Lower Upper
75 100
53 0.0 64.4 96.6#
89 0.0 34.8 52.2#



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: 0.441 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

Z2-12

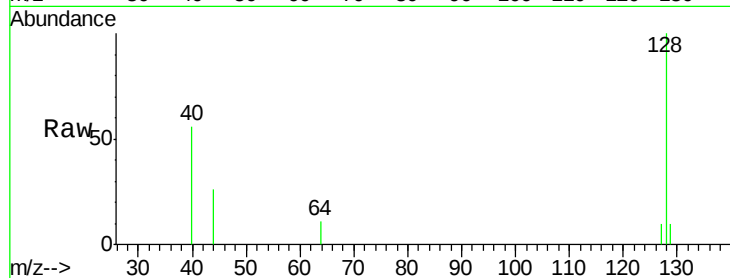
Tot Ion:128 Resp: 4591

Ion Ratio Lower Upper

128 100

127 8.9 9.8 14.8#

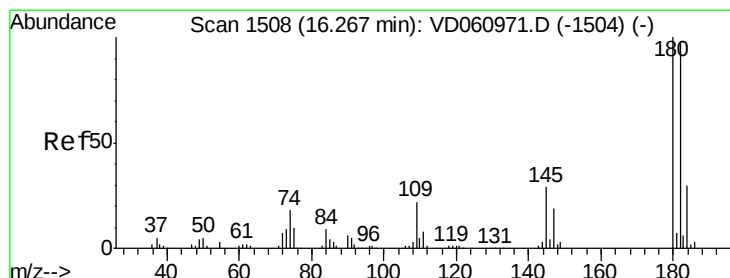
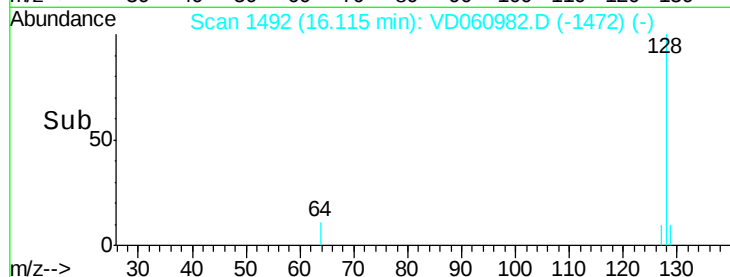
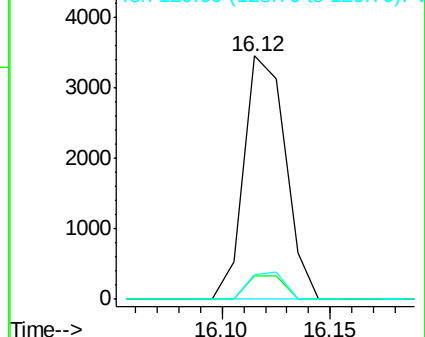
129 9.2 8.5 12.7



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



#96

1,2,3-Trichlorobenzene

Concen: 0.311 ug/l

RT: 16.26 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VD060982.D

Acq: 8 Mar 2019 14:27

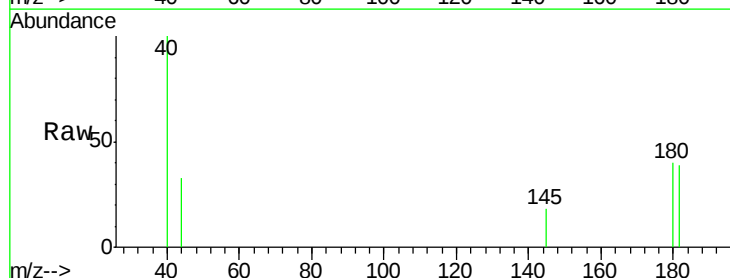
Tgt Ion:180 Resp: 1052

Ion Ratio Lower Upper

180 100

182 98.2 48.6 145.8

145 44.6 14.3 42.9#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

