

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062762.D
 Acq On : 18 Jun 2019 20:57
 Operator : VA/AP
 Sample : K3154-13RE
 Misc : 6.51g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:27:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	510716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	708932	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	644282	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	343031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	354729	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
35) Dibromofluoromethane	6.92	113	317485	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	
50) Toluene-d8	10.40	98	618417	39.32	ug/l	0.00
Spiked Amount			Recovery	=	78.64%	
62) 4-Bromofluorobenzene	13.55	95	301395	41.07	ug/l	0.00
Spiked Amount			Recovery	=	82.14%	

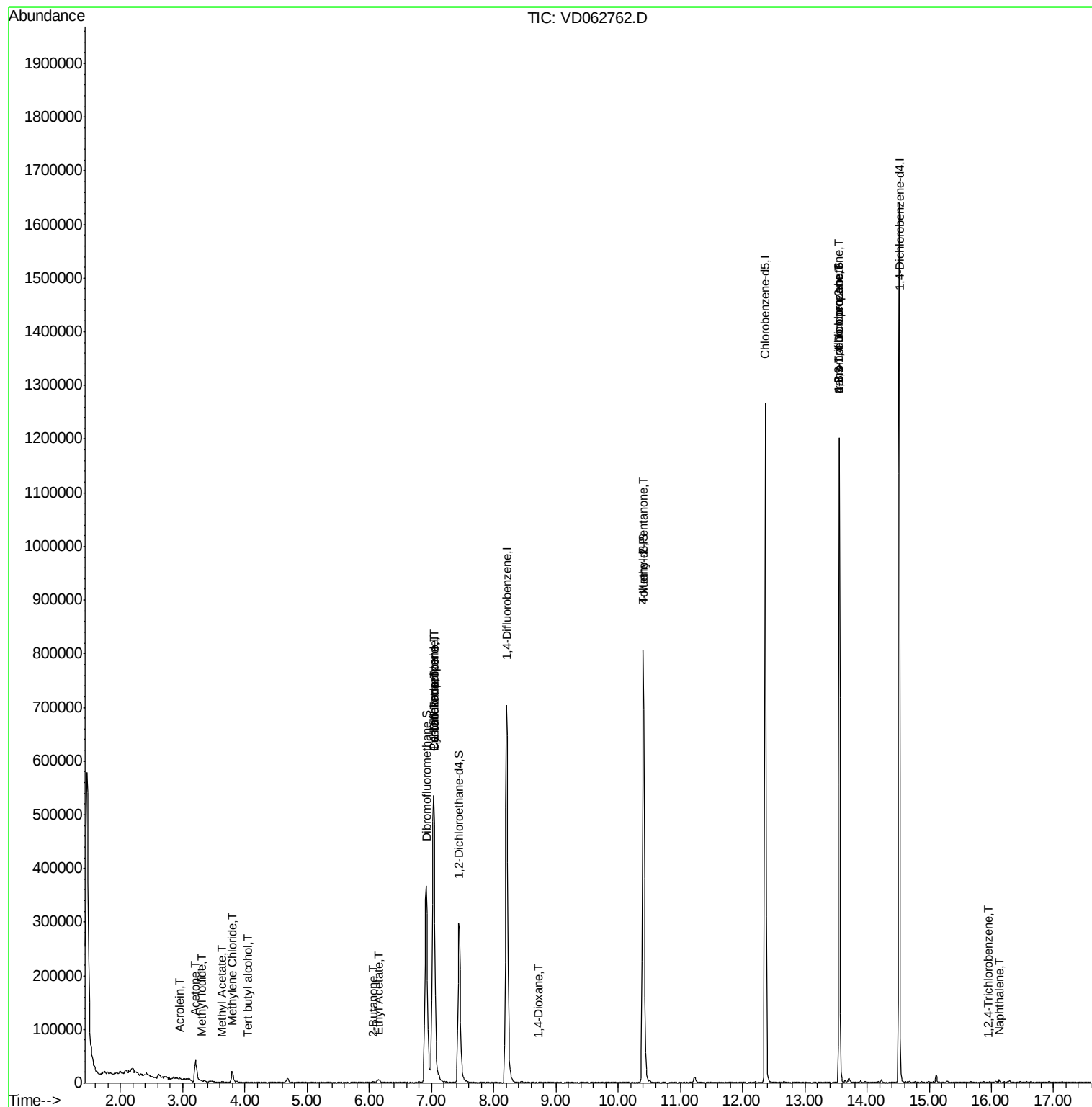
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	200	Below Cal	#	42
10) Methyl Iodide	3.32	142	196	4.029	ug/l #	24
11) Tert butyl alcohol	4.05	59	684	2.258	ug/l #	61
13) Acrolein	2.94	56	240	2.463	ug/l #	12
16) Acetone	3.21	43	78281	58.008	ug/l	95
18) Methyl Acetate	3.63	43	2339	1.055	ug/l #	64
20) Methylene Chloride	3.80	84	10340	1.600	ug/l #	94
25) 2-Butanone	6.06	43	2192	1.665	ug/l #	61
31) Cyclohexane	7.04	56	14092	2.423	ug/l #	2
36) 1,1-Dichloropropene	7.03	75	42438	5.230	ug/l #	53
37) Ethyl Acetate	6.16	43	193	1.255	ug/l #	74
38) Carbon Tetrachloride	7.03	117	55786	4.350	ug/l #	18
49) 1,4-Dioxane	8.71	88	187	53.706	ug/l #	21
51) 4-Methyl-2-Pentanone	10.41	43	4104	1.370	ug/l #	1
76) 1,2,3-Trichloropropane	13.55	75	109891	23.627	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	151807	105.380	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	359	3.606	ug/l #	11
95) Naphthalene	16.12	128	2855	3.663	ug/l #	62

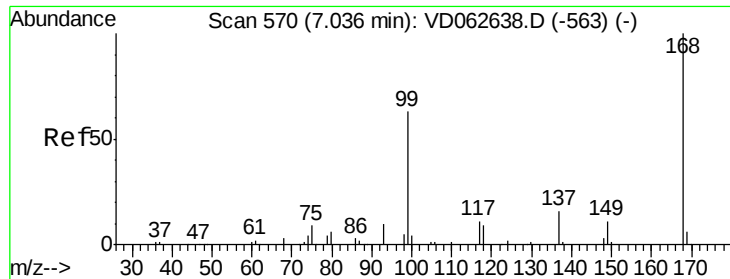
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

Instrument :

MSVOA_D

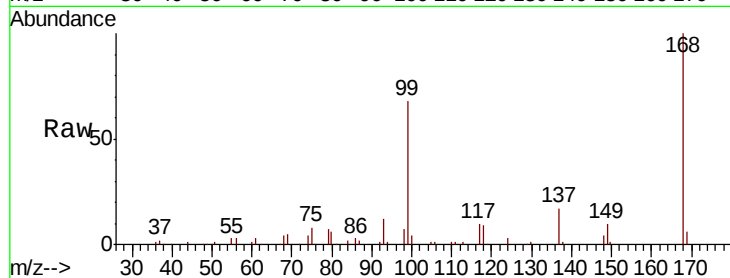
ClientSampleId :

Tot Ion:168 Resp: 510716

Ion Ratio Lower Upper

168 100

99 67.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

150000

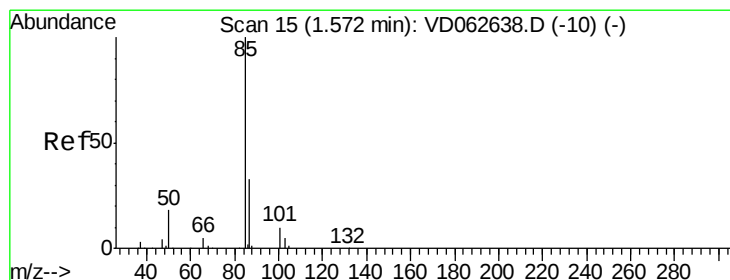
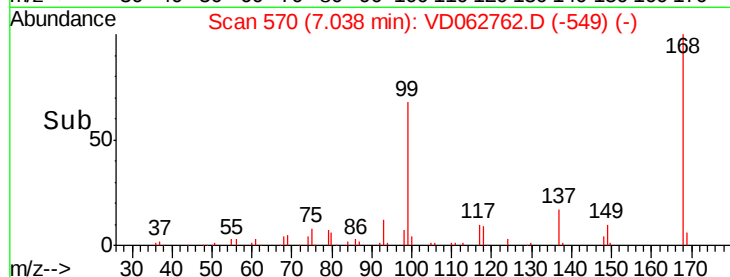
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062762.D

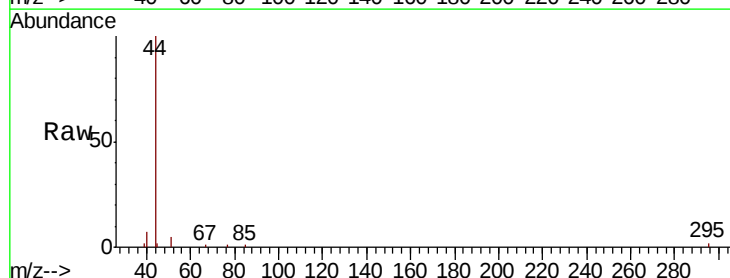
Acq: 18 Jun 2019 20:57

Tgt Ion: 85 Resp: 200

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

600

500

400

300

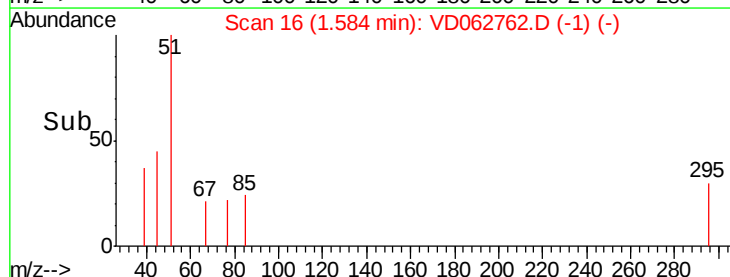
200

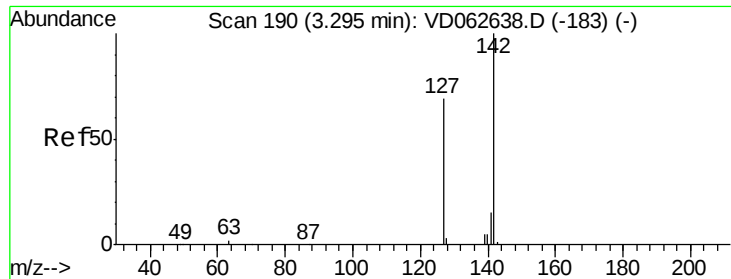
100

0

1.56 1.58 1.60

Time-->

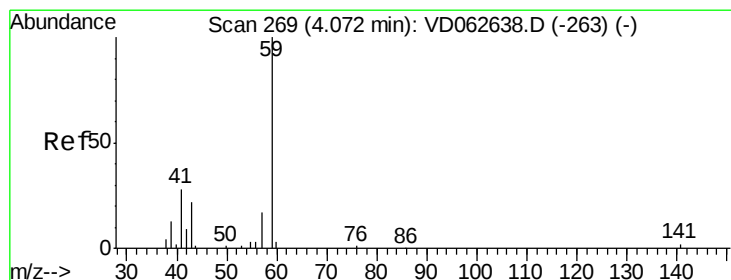
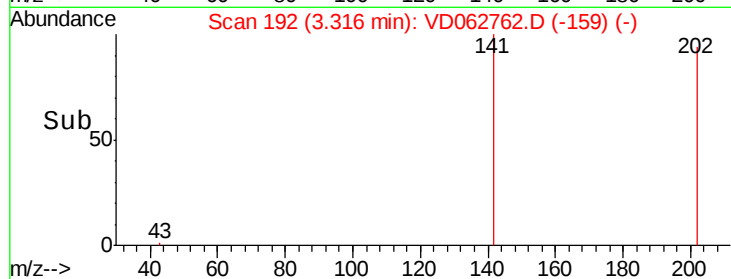
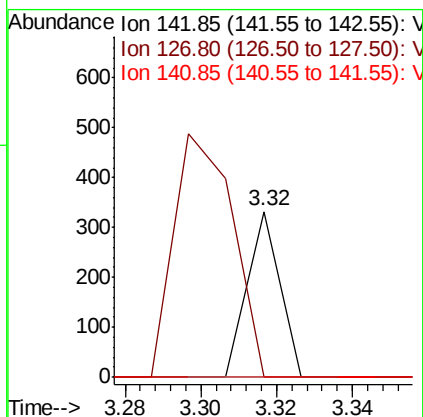
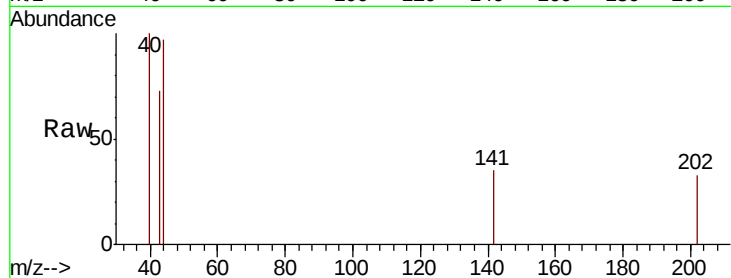




#10
Methyl Iodide
Concen: 4.029 ug/l
RT: 3.32 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

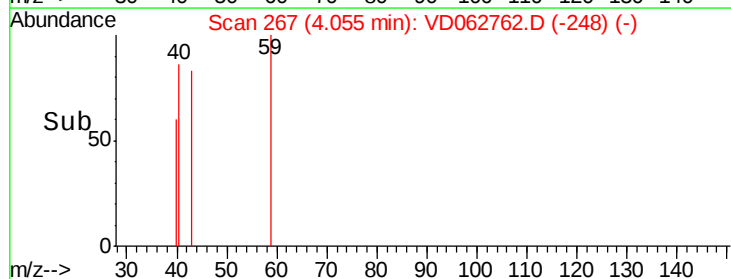
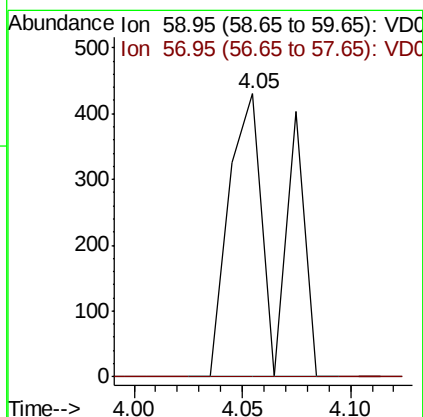
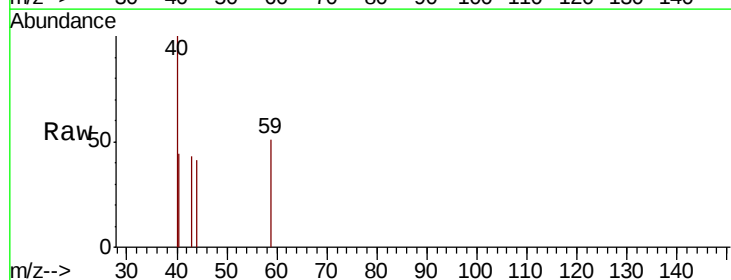
Instrument :
MSVOA_D
ClientSampleId :

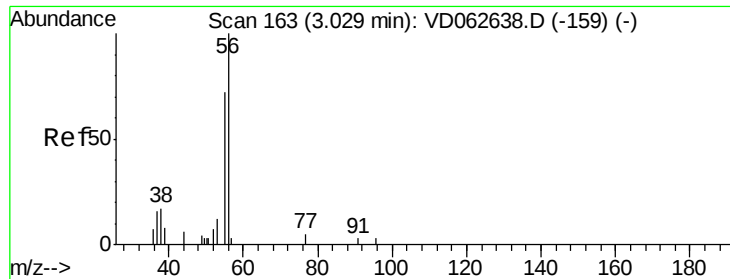
Tot Ion:142 Resp: 196
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 2.258 ug/l
RT: 4.05 min Scan# 267
Delta R.T. -0.02 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Tgt Ion: 59 Resp: 684
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 2.463 ug/l

RT: 2.94 min Scan# 154

Delta R.T. -0.09 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

Instrument :

MSVOA_D

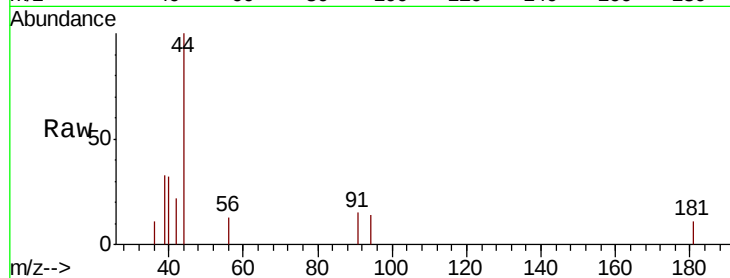
ClientSampled :

Tot Ion: 56 Resp: 240

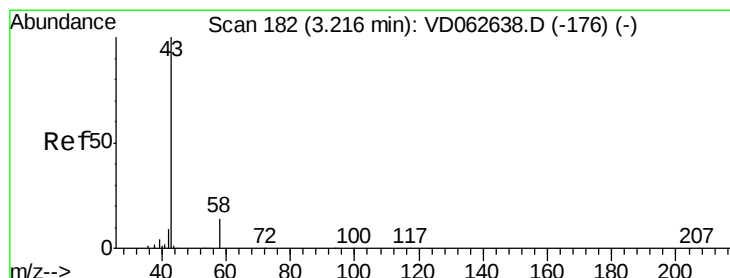
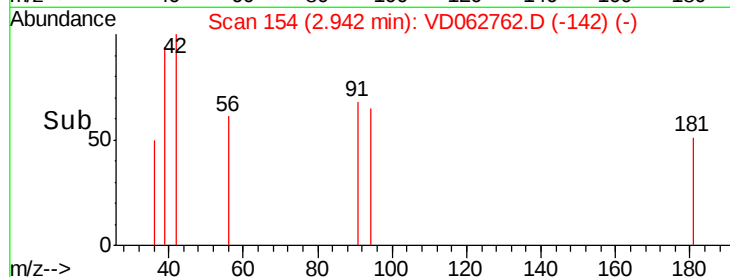
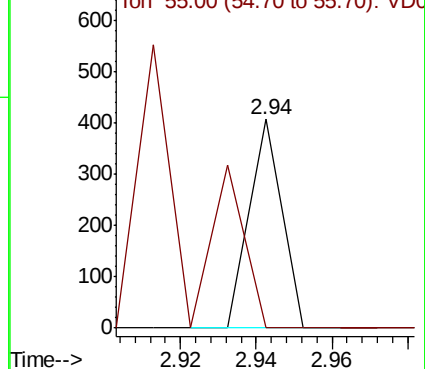
Ion Ratio Lower Upper

56 100

55 0.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC



#16

Acetone

Concen: 58.008 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062762.D

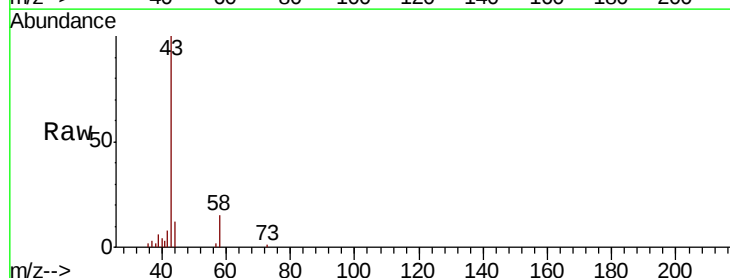
Acq: 18 Jun 2019 20:57

Tgt Ion: 43 Resp: 78281

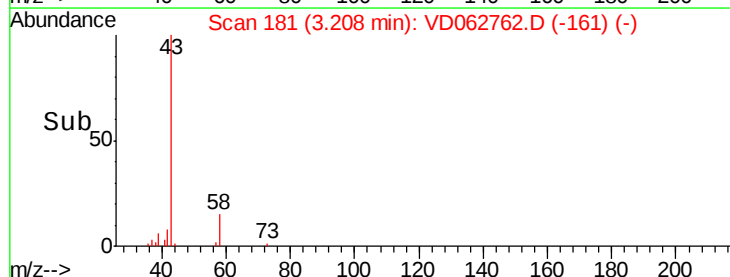
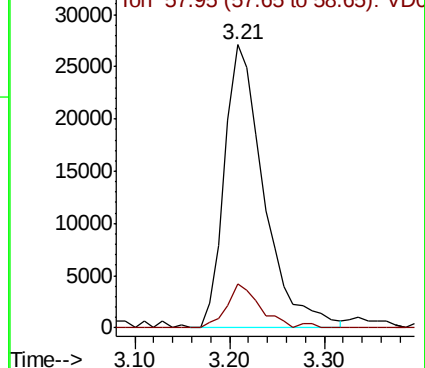
Ion Ratio Lower Upper

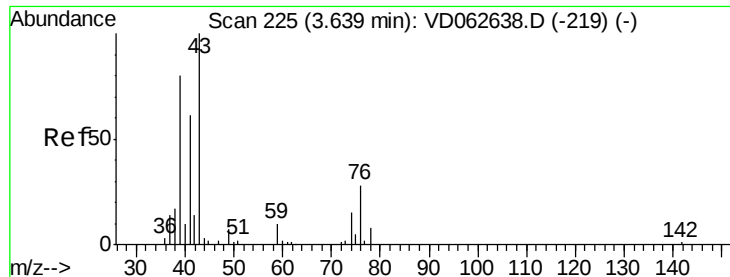
43 100

58 15.4 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

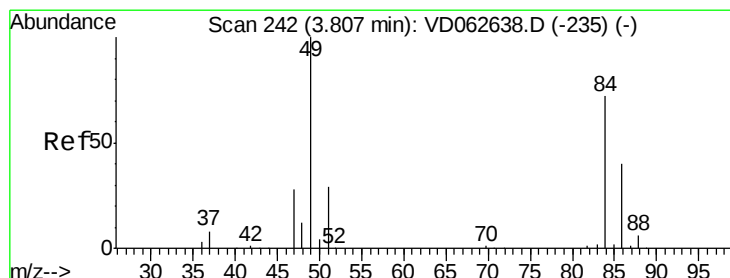
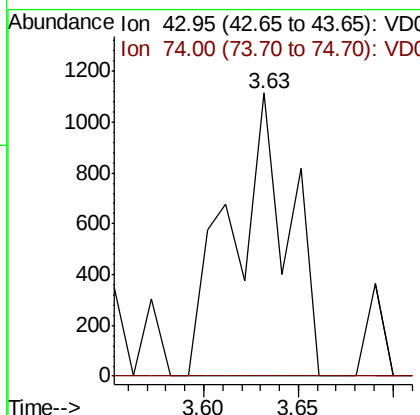
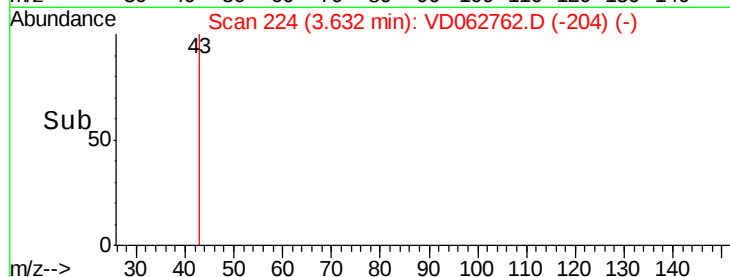
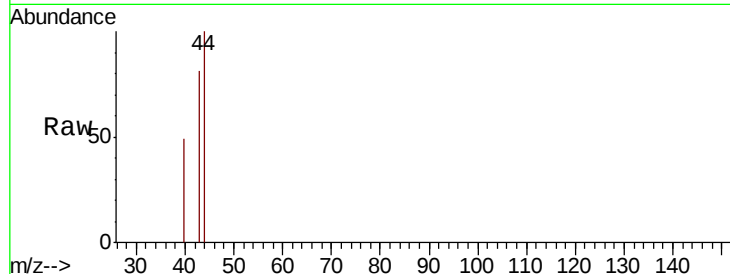




#18
Methyl Acetate
Concen: 1.055 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

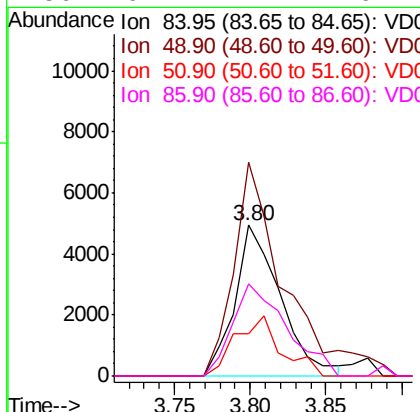
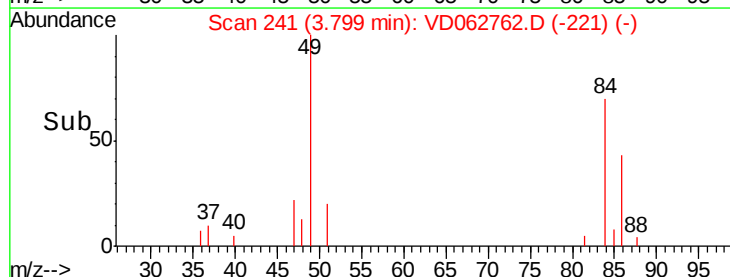
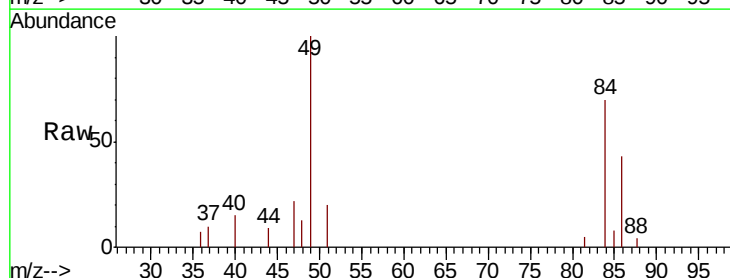
Instrument :
MSVOA_D
ClientSampleId :

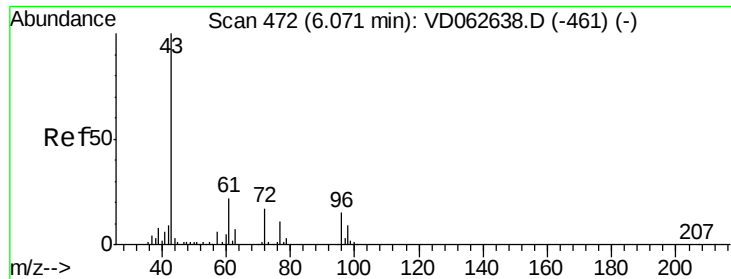
Tot Ion: 43 Resp: 2339
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 1.600 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.01 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Tgt Ion: 84 Resp: 10340
Ion Ratio Lower Upper
84 100
49 141.9 111.2 166.8
51 28.0 31.9 47.9#
86 61.2 44.7 67.1





#25

2-Butanone

Concen: 1.665 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

Instrument :

MSVOA_D

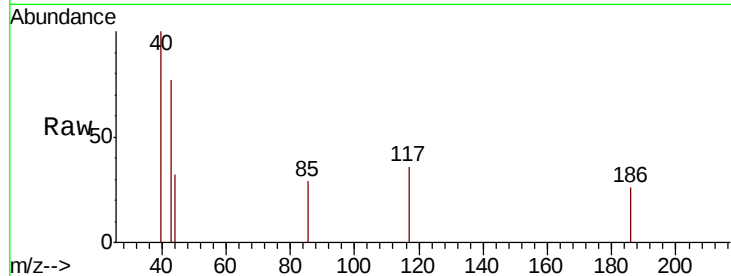
ClientSampleId :

Tot Ion: 43 Resp: 2192

Ion Ratio Lower Upper

43 100

72 0.0 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.06

800

600

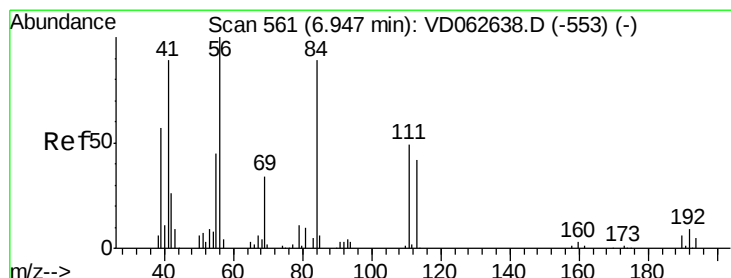
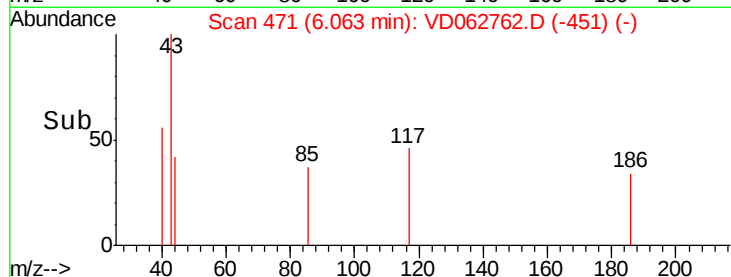
400

200

0

6.00 6.05 6.10 6.15

Time-->



#31

Cyclohexane

Concen: 2.423 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.09 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

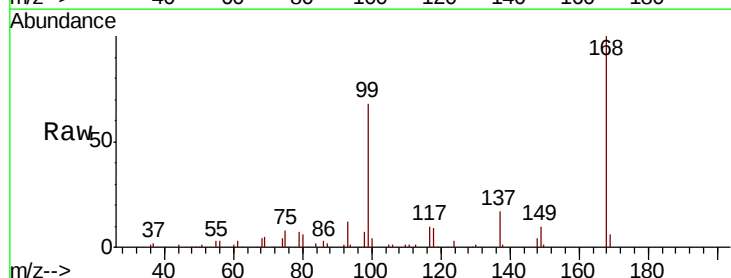
Tgt Ion: 56 Resp: 14092

Ion Ratio Lower Upper

56 100

69 184.3 26.8 40.2#

84 56.1 73.9 110.9#



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

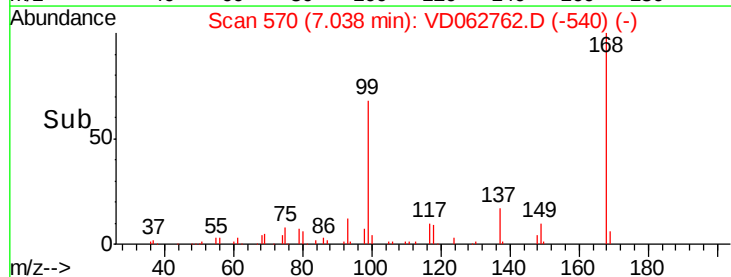
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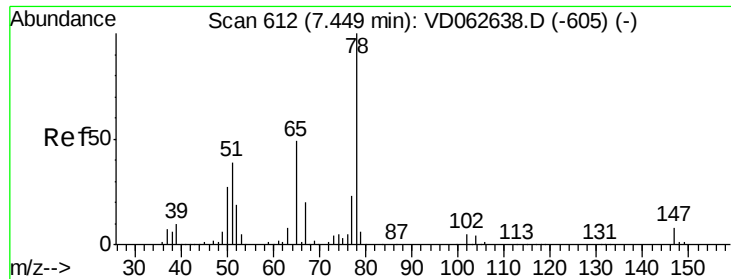
5000

0

6.95 7.00 7.05 7.10

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.134 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

Instrument :

MSVOA_D

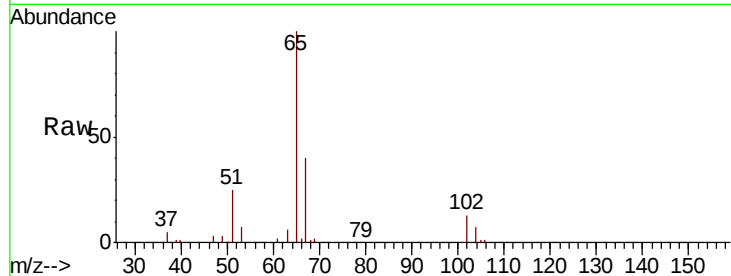
ClientSampleId :

Tot Ion: 65 Resp: 354729

Ion Ratio Lower Upper

65 100

67 40.2 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

150000

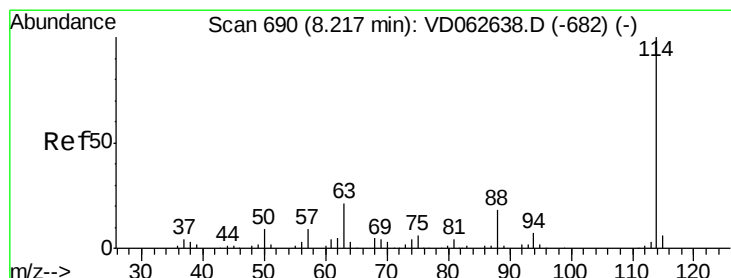
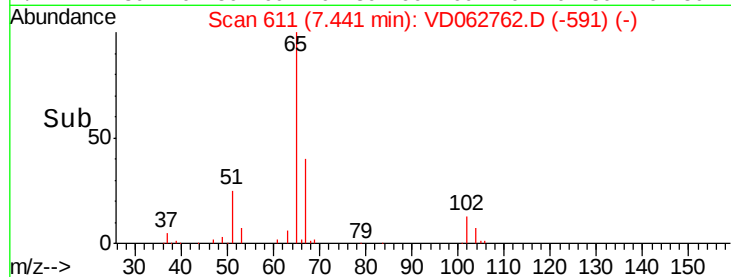
100000

50000

0

Time-->

7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

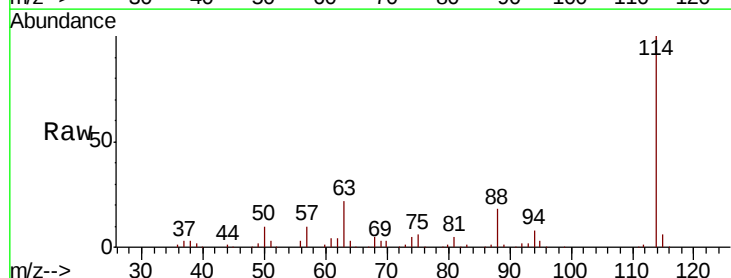
Tgt Ion: 114 Resp: 708932

Ion Ratio Lower Upper

114 100

63 22.1 0.0 42.4

88 17.6 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

300000

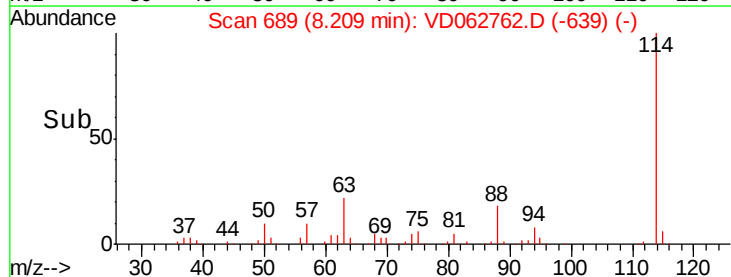
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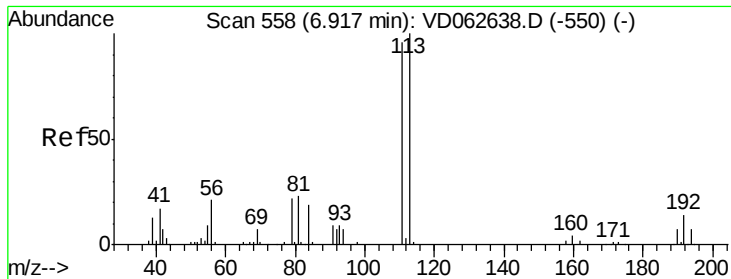
100000

0

Time-->

8.10 8.20 8.30 8.40

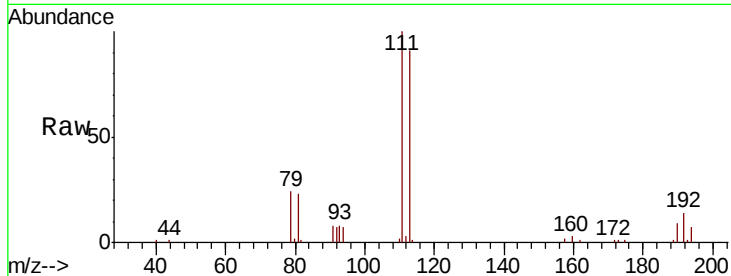




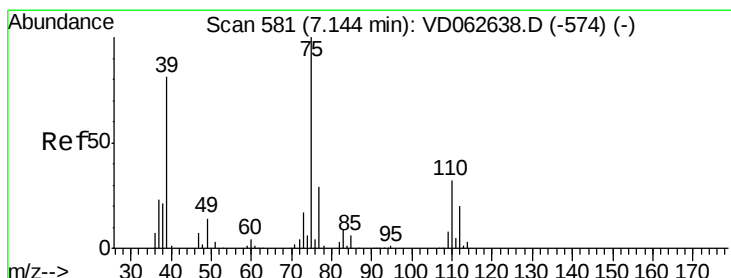
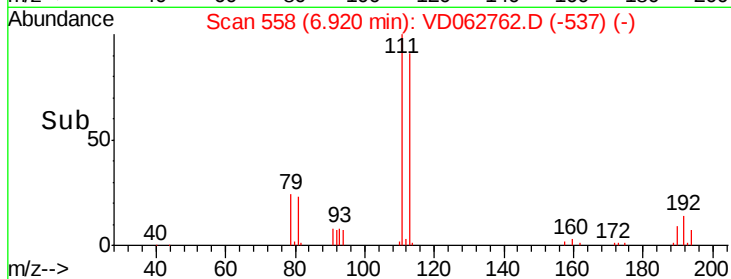
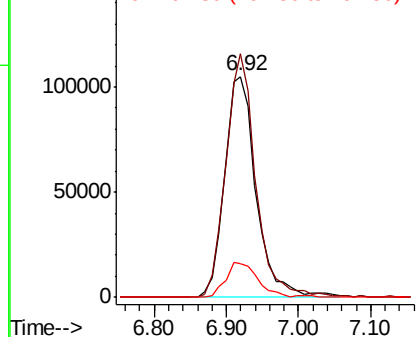
#35
 Dibromofluoromethane
 Concen: 42.464 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 317485
 Ion Ratio Lower Upper
 113 100
 111 110.3 76.4 114.6
 192 15.1 11.4 17.0

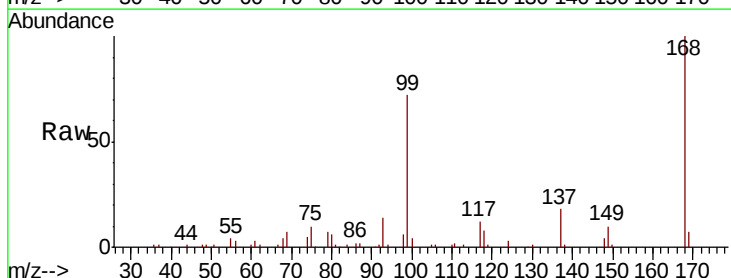


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

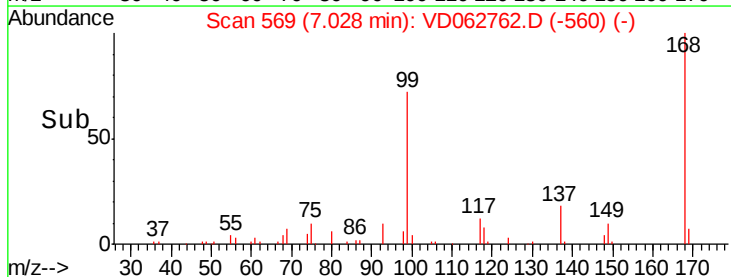
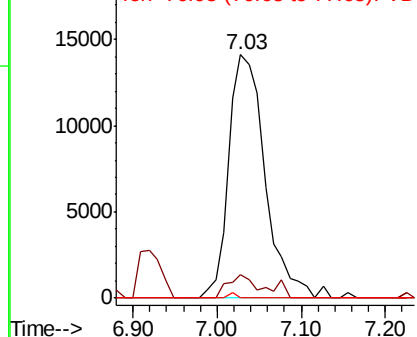


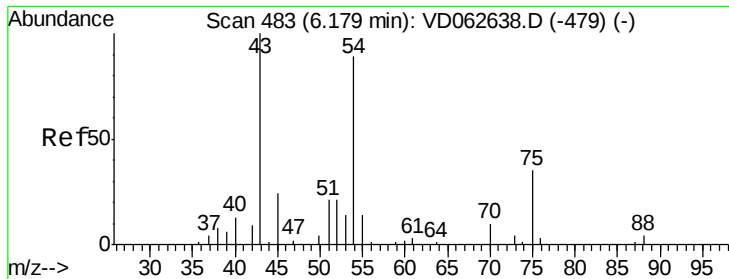
#36
 1,1-Dichloropropene
 Concen: 5.230 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.12 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

Tgt Ion: 75 Resp: 42438
 Ion Ratio Lower Upper
 75 100
 110 9.8 15.9 47.7#
 77 0.0 23.3 34.9#



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

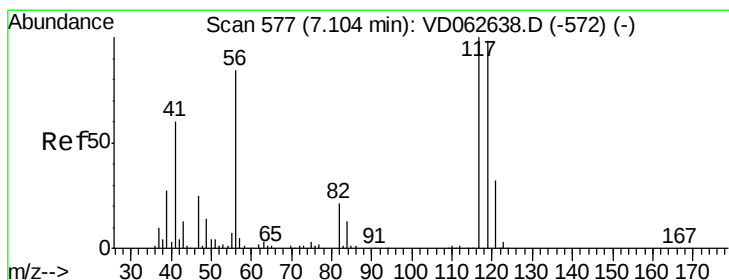
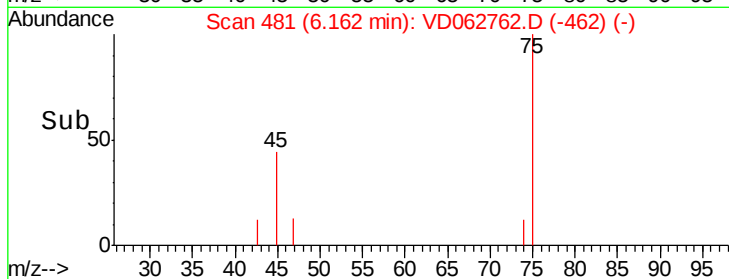
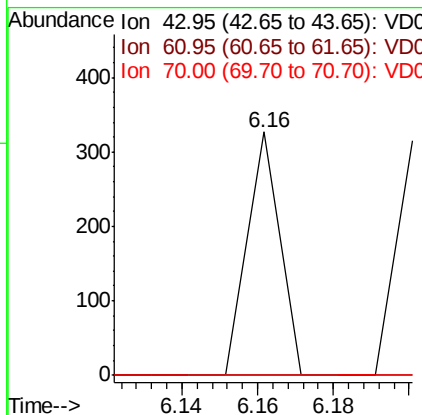
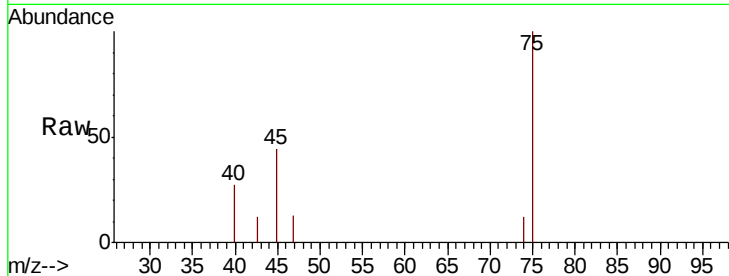




#37
Ethyl Acetate
Concen: 1.255 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.02 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

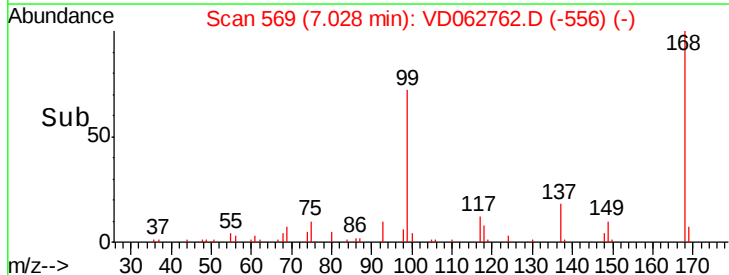
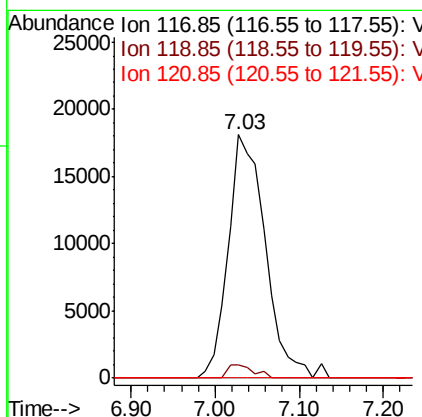
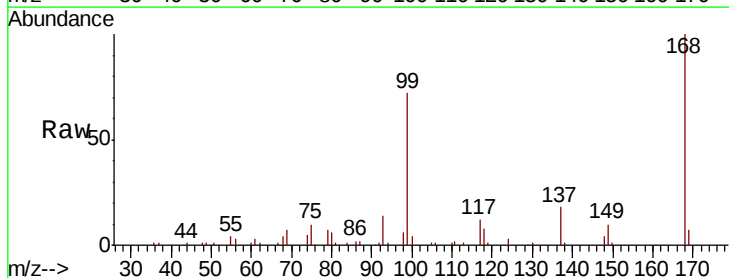
Instrument :
MSVOA_D
ClientSampleId :

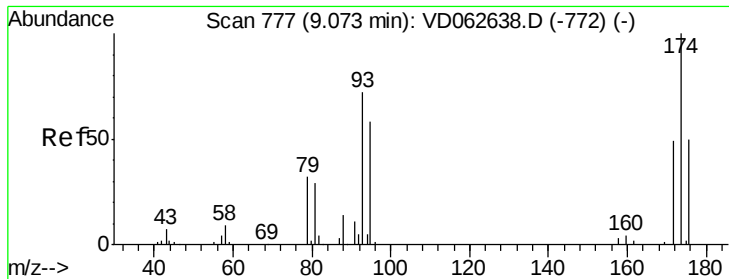
Tot Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 4.350 ug/l
RT: 7.03 min Scan# 569
Delta R.T. -0.08 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Tgt Ion: 117 Resp: 55786
Ion Ratio Lower Upper
117 100
119 5.2 73.5 110.3#
121 0.0 24.2 36.4#

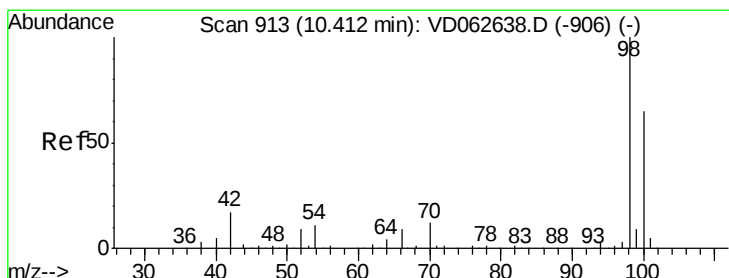
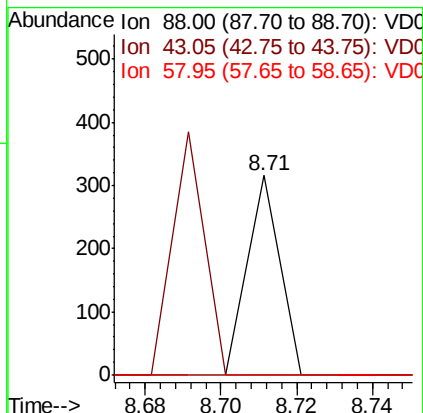
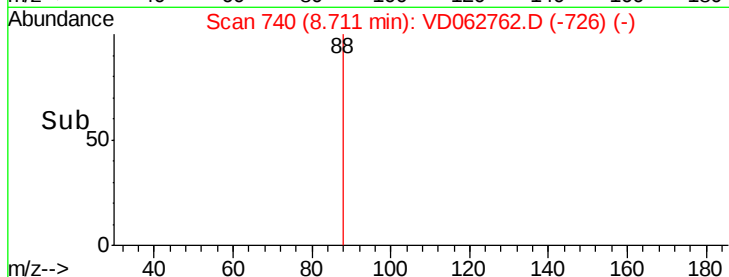
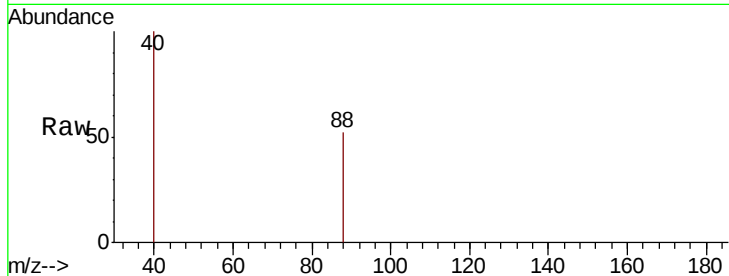




#49
1,4-Dioxane
Concen: 53.706 ug/l
RT: 8.71 min Scan# 740
Delta R.T. -0.36 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

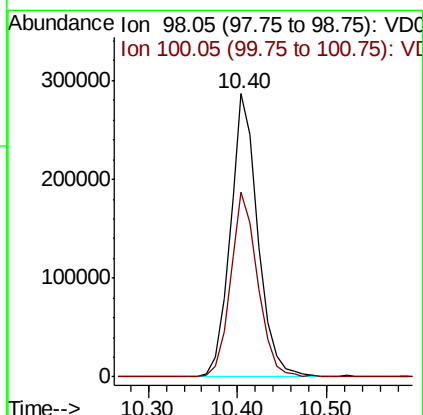
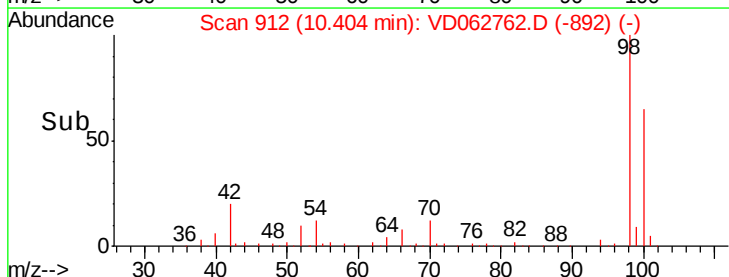
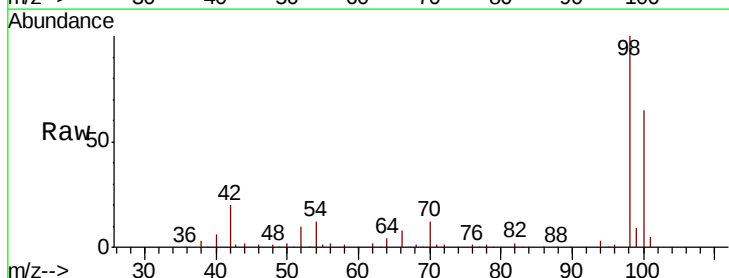
Instrument :
MSVOA_D
ClientSampled :

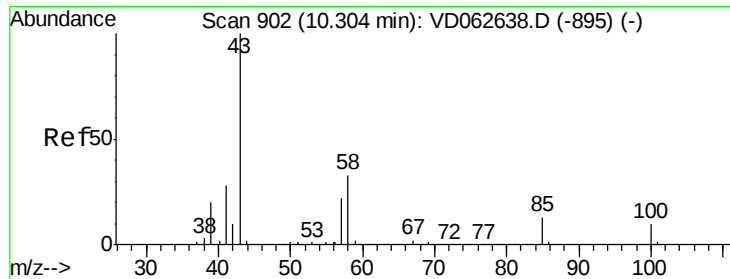
Tot Ion: 88 Resp: 187
Ion Ratio Lower Upper
88 100
43 0.0 40.7 61.1#
58 0.0 54.2 81.4#



#50
Toluene-d8
Concen: 39.319 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Tgt Ion: 98 Resp: 618417
Ion Ratio Lower Upper
98 100
100 65.4 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.370 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

Instrument :

MSVOA_D

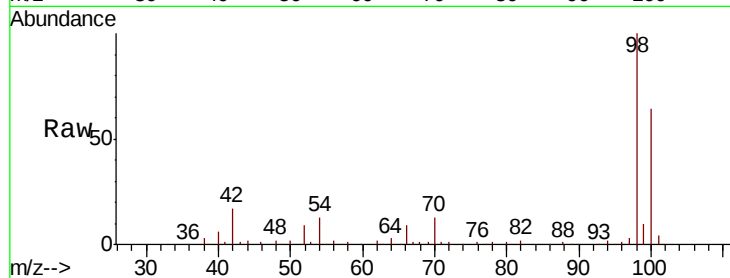
ClientSampled :

Tot Ion: 43 Resp: 4104

Ion Ratio Lower Upper

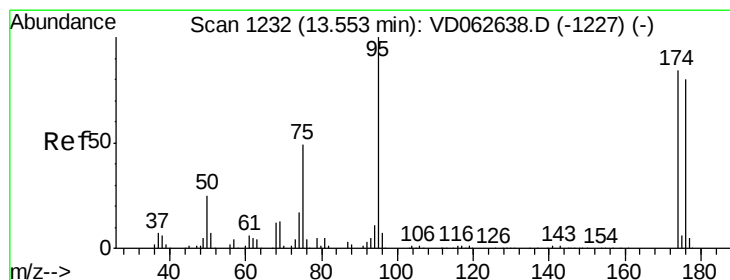
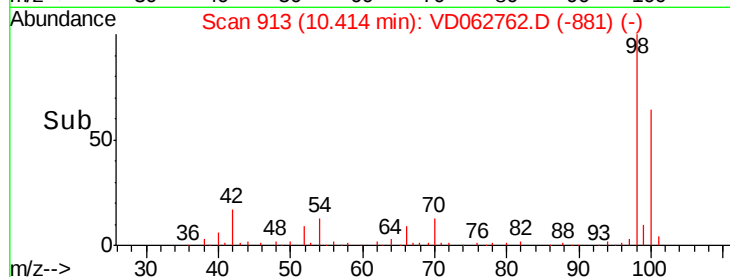
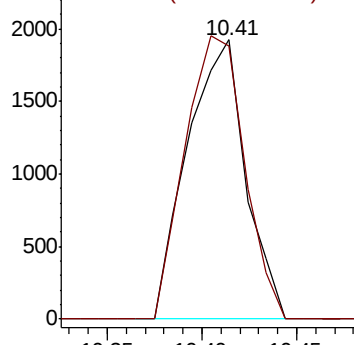
43 100

58 97.8 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 41.075 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062762.D

Acq: 18 Jun 2019 20:57

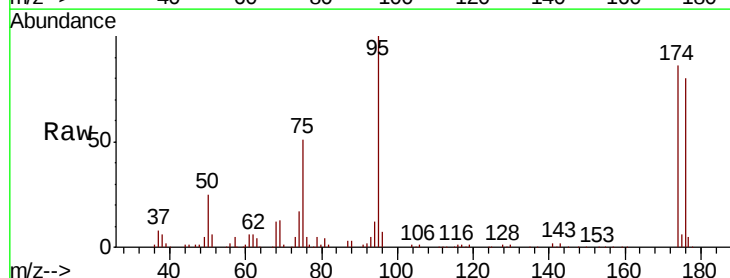
Tgt Ion: 95 Resp: 301395

Ion Ratio Lower Upper

95 100

174 85.5 0.0 167.0

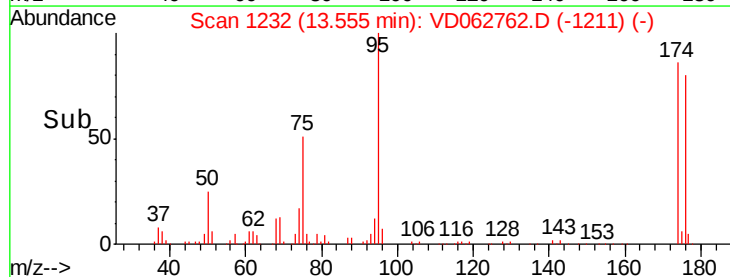
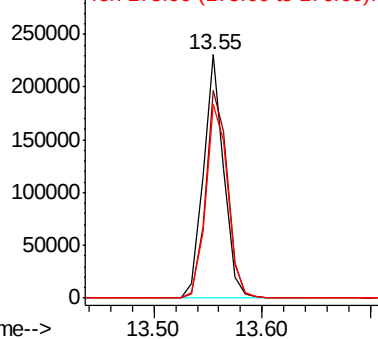
176 79.8 0.0 159.2

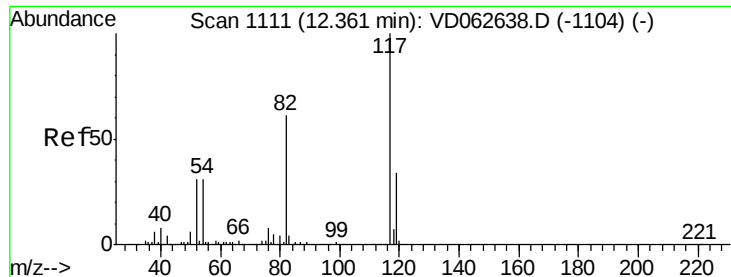


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

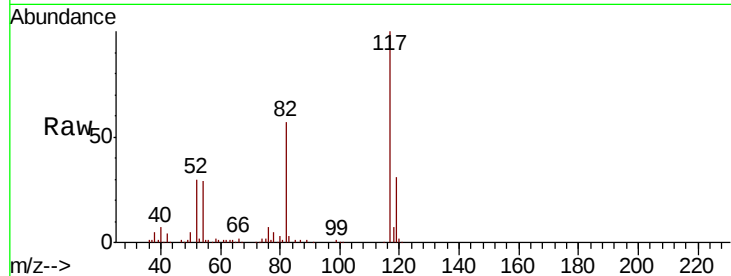




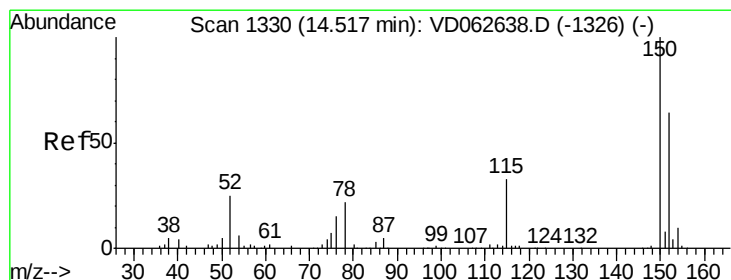
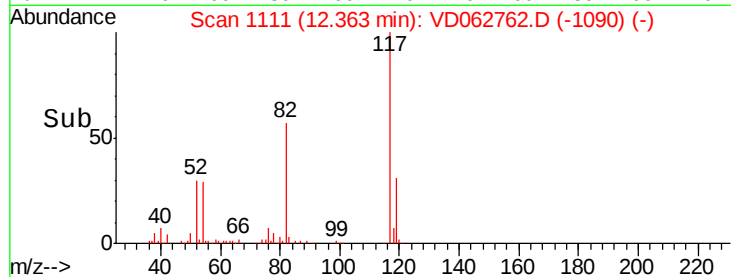
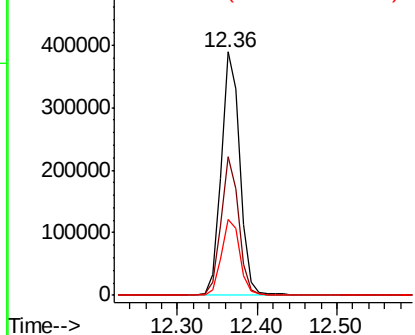
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 644282
Ion Ratio Lower Upper
117 100
82 56.8 48.7 73.1
119 31.1 27.0 40.6

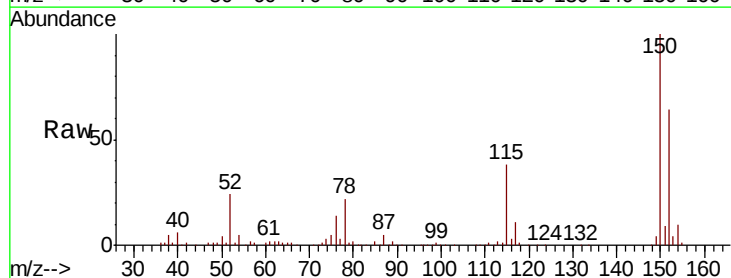


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

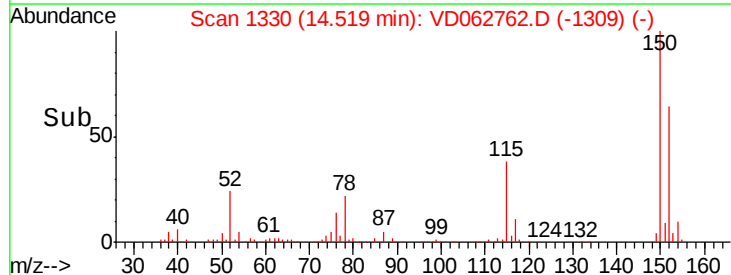
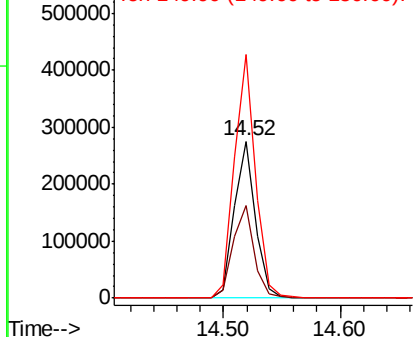


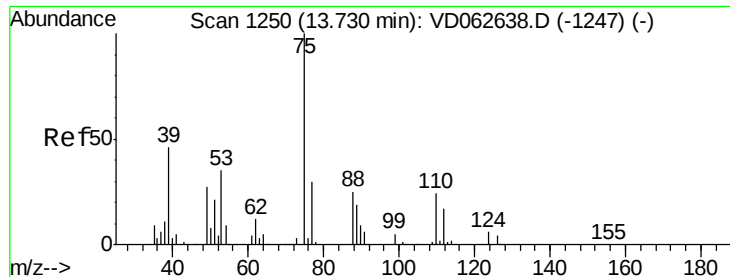
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062762.D
Acq: 18 Jun 2019 20:57

Tgt Ion:152 Resp: 343031
Ion Ratio Lower Upper
152 100
115 58.9 30.1 90.5
150 155.5 0.0 314.0



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

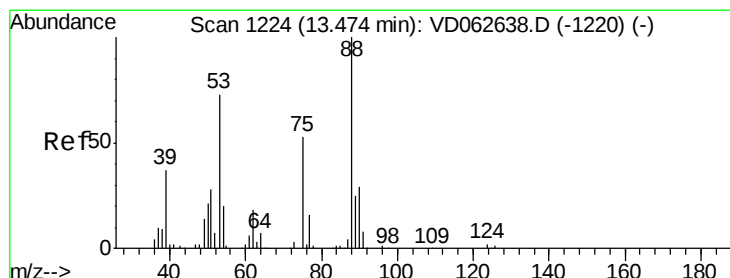
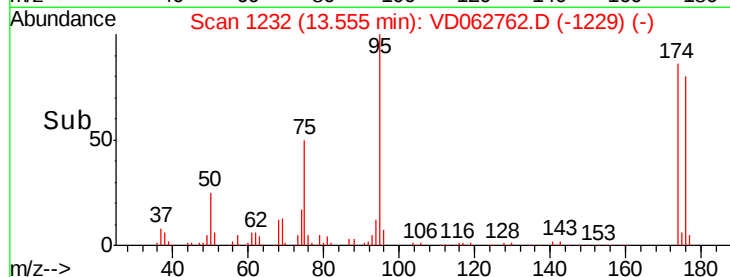
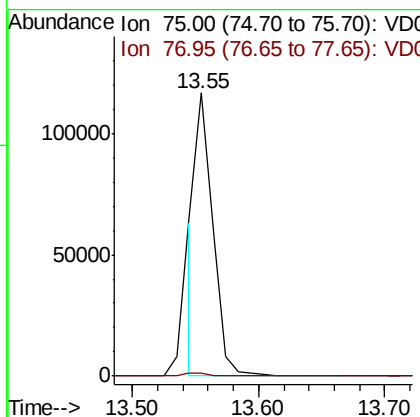
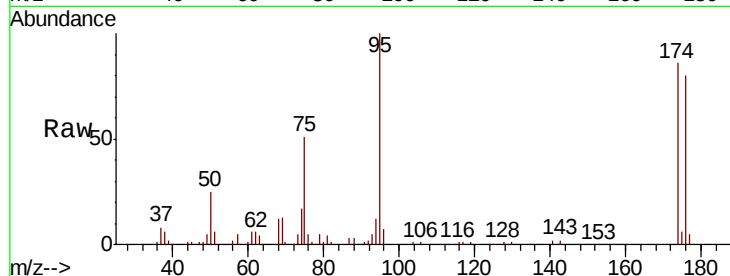




#76
 1,2,3-Trichloropropane
 Concen: 23.627 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.18 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

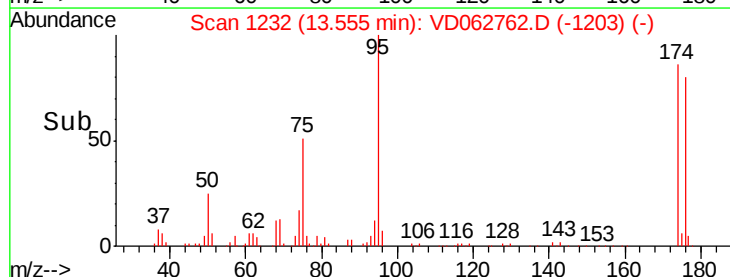
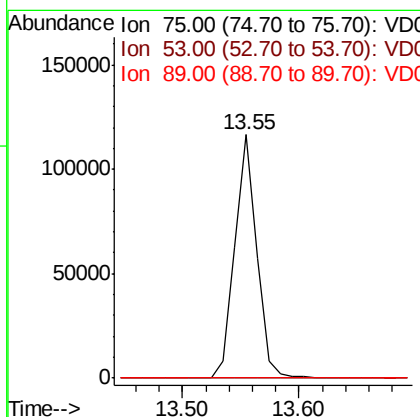
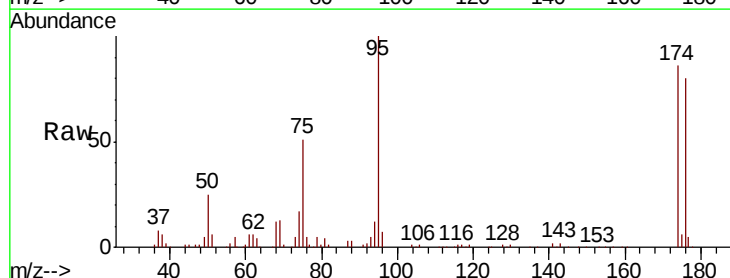
Instrument :
 MSVOA_D
 ClientSampled :

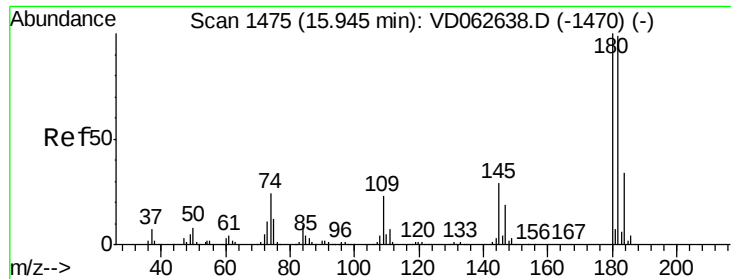
Tot Ion: 75 Resp: 109891
 Ion Ratio Lower Upper
 75 100
 77 1.3 16.2 48.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.380 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

Tgt Ion: 75 Resp: 151807
 Ion Ratio Lower Upper
 75 100
 53 0.0 109.4 164.2#
 89 0.0 37.0 55.6#

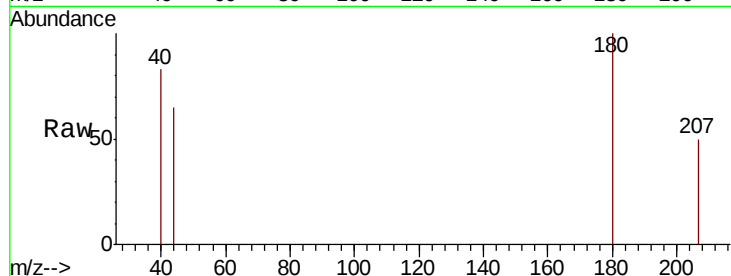




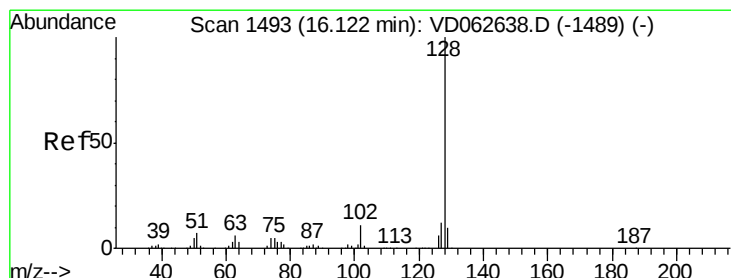
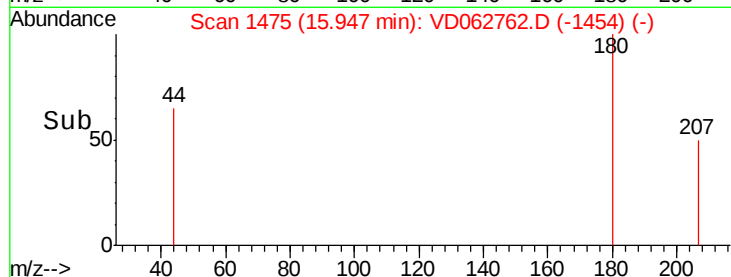
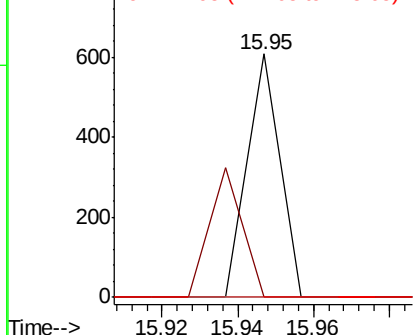
#93
 1,2,4-Trichlorobenzene
 Concen: 3.606 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 359
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.4 148.2#
 145 0.0 14.5 43.6#

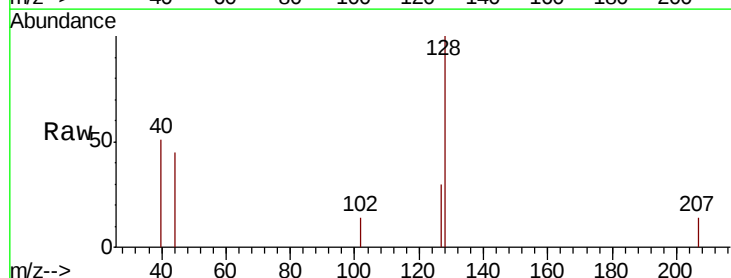


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.663 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062762.D
 Acq: 18 Jun 2019 20:57

Tgt Ion:128 Resp: 2855
 Ion Ratio Lower Upper
 128 100
 127 30.3 9.7 14.5#
 129 0.0 8.1 12.1#



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

