

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081519\
 Data File : VD063622.D
 Acq On : 15 Aug 2019 22:50
 Operator : JC/SY
 Sample : K4339-06
 Misc : 4.55g/5ml/MSVOA_D/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T8-A1-(4)

Quant Time: Aug 16 01:08:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	37533	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.21	114	63518	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	49779	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	15493	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	34708	86.51	ug/l	-0.04
Spiked Amount 50.000			Recovery =	173.02%		
35) Dibromofluoromethane	6.91	113	31721	59.30	ug/l	-0.03
Spiked Amount 50.000			Recovery =	118.60%		
50) Toluene-d8	10.39	98	37686	32.04	ug/l	-0.03
Spiked Amount 50.000			Recovery =	64.08%		
62) 4-Bromofluorobenzene	13.54	95	16193	30.38	ug/l	-0.02
Spiked Amount 50.000			Recovery =	60.76%		

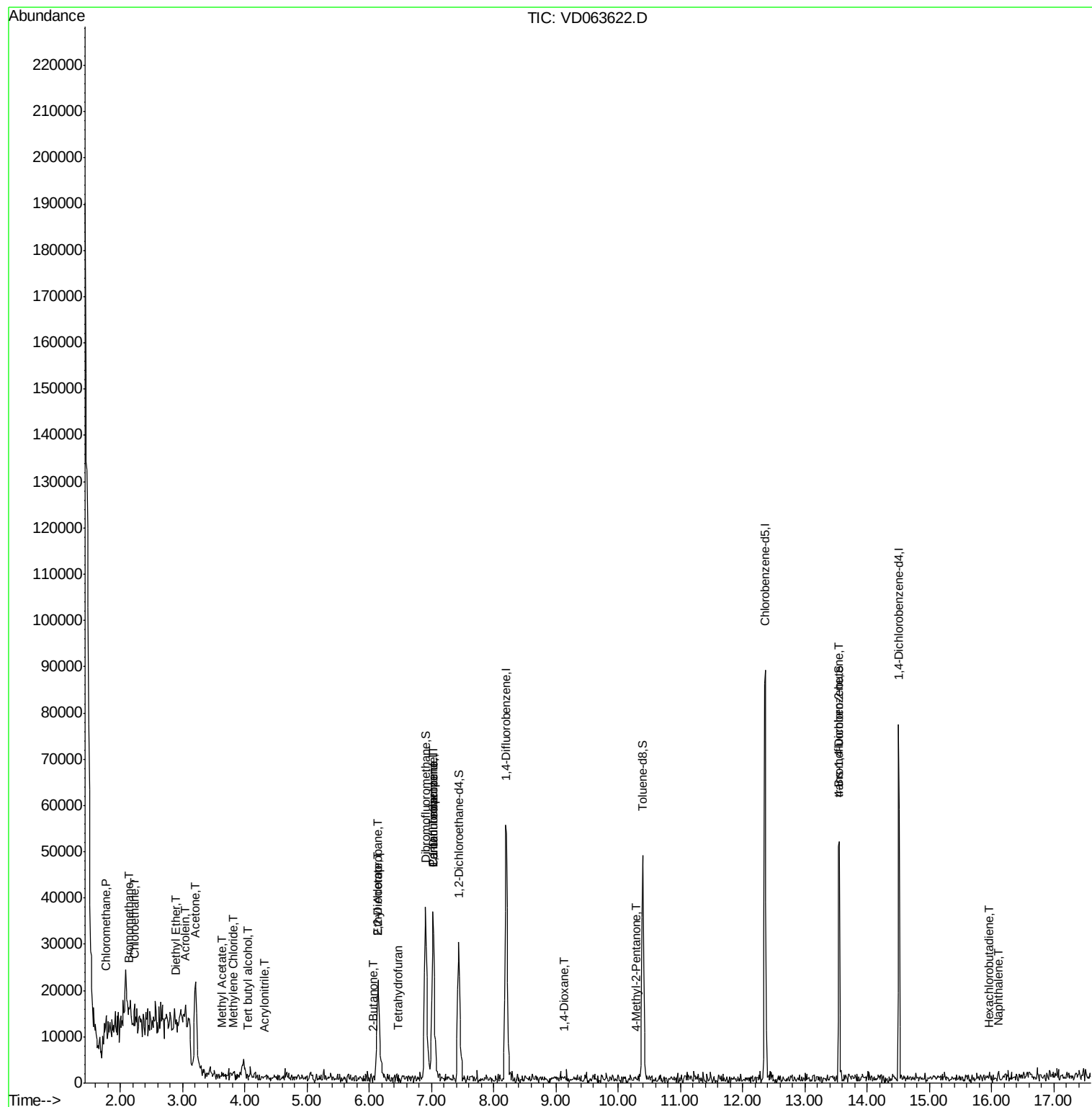
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	431	1.215	ug/l #	41
5) Bromomethane	2.13	94	827	4.976	ug/l #	11
6) Chloroethane	2.22	64	230	1.428	ug/l #	42
8) Diethyl Ether	2.90	74	398	4.080	ug/l	87
11) Tert butyl alcohol	4.04	59	518	29.659	ug/l #	71
13) Acrolein	3.06	56	208	12.099	ug/l #	18
15) Acrylonitrile	4.31	53	180	3.891	ug/l #	1
16) Acetone	3.21	43	37307	457.441	ug/l	97
18) Methyl Acetate	3.63	43	768	4.972	ug/l #	57
20) Methylene Chloride	3.82	84	552	1.565	ug/l #	34
25) 2-Butanone	6.07	43	213	2.644	ug/l #	58
26) 2,2-Dichloropropane	6.13	77	941	1.619	ug/l #	59
29) Tetrahydrofuran	6.46	42	199	5.302	ug/l #	35
36) 1,1-Dichloropropene	7.03	75	2585	4.604	ug/l #	42
37) Ethyl Acetate	6.13	43	1425	6.056	ug/l #	36
38) Carbon Tetrachloride	7.03	117	3236	3.824	ug/l #	13
49) 1,4-Dioxane	9.14	88	362	209.731	ug/l #	1
51) 4-Methyl-2-Pentanone	10.29	43	233	1.081	ug/l #	40
81) trans-1,4-Dichloro-2-buten	13.54	75	5871	122.850	ug/l #	1
94) Hexachlorobutadiene	15.96	225	236	1.018	ug/l #	19
95) Naphthalene	16.12	128	1007	2.185	ug/l #	71

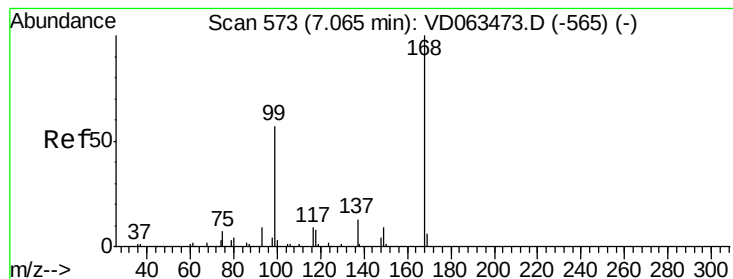
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

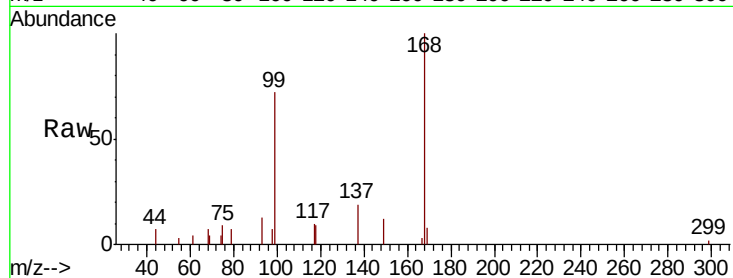
T8-A1-(4)

Tgt Ion:168 Resp: 37533

Ion Ratio Lower Upper

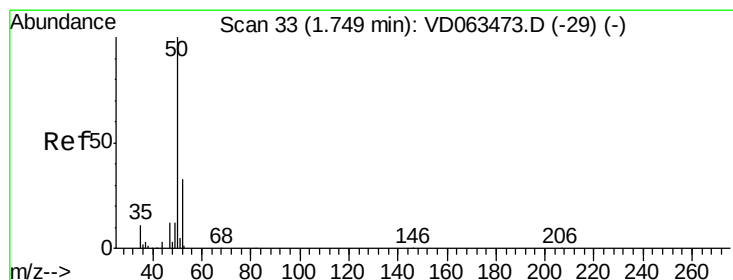
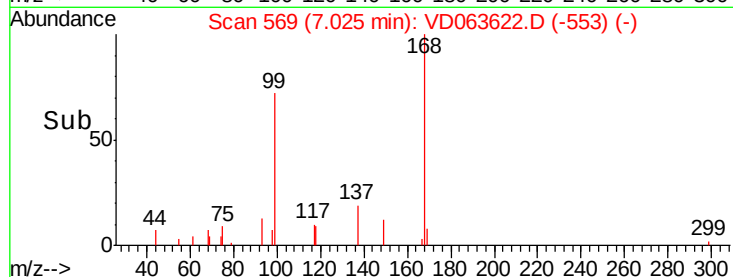
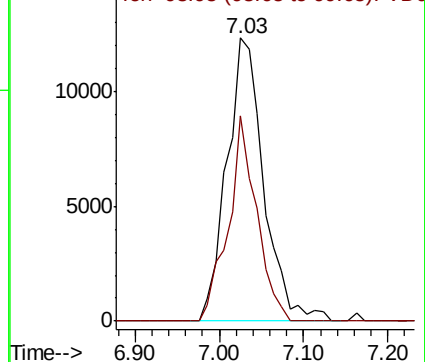
168 100

99 72.5 46.7 70.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.215 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD063622.D

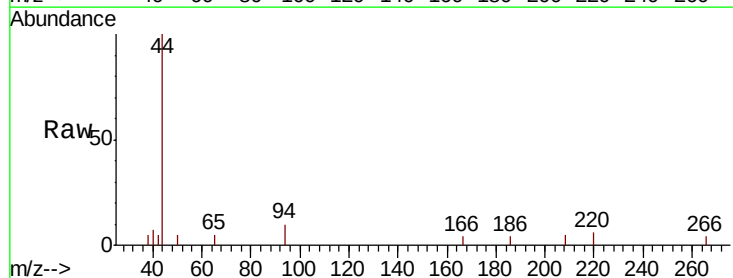
Acq: 15 Aug 2019 22:50

Tgt Ion: 50 Resp: 431

Ion Ratio Lower Upper

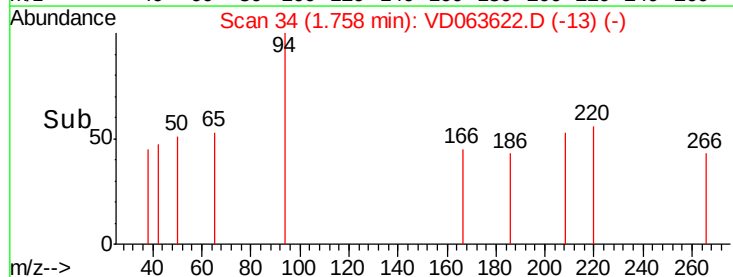
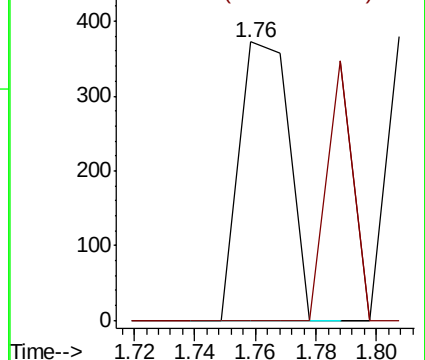
50 100

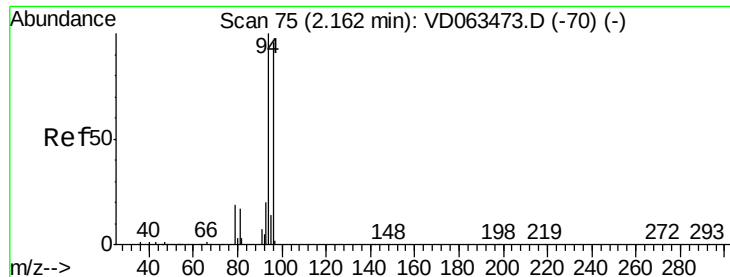
52 0.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 4.976 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.03 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

T8-A1-(4)

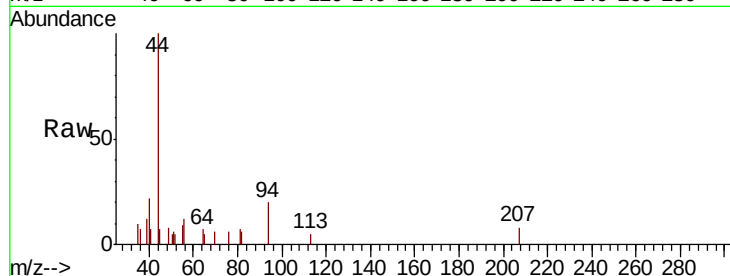
Tgt Ion: 94 Resp: 827

Ion Ratio Lower Upper

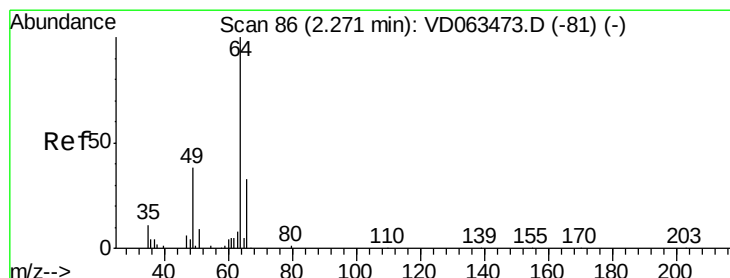
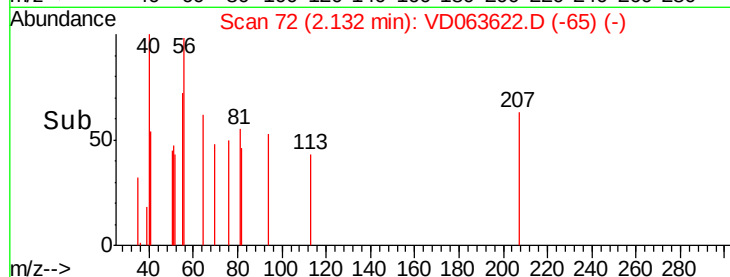
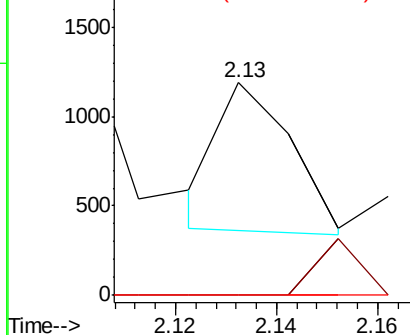
94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



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



#6

Chloroethane

Concen: 1.428 ug/l

RT: 2.22 min Scan# 81

Delta R.T. -0.05 min

Lab File: VD063622.D

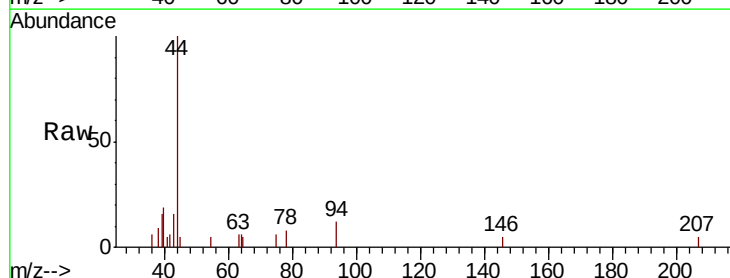
Acq: 15 Aug 2019 22:50

Tgt Ion: 64 Resp: 230

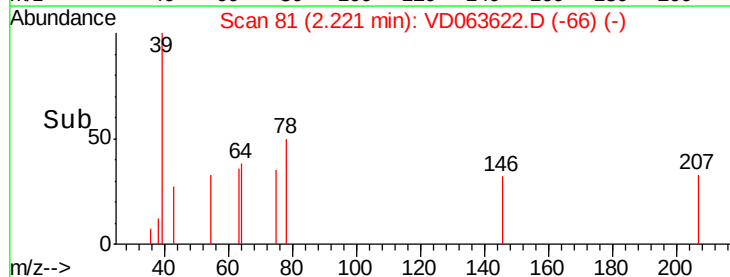
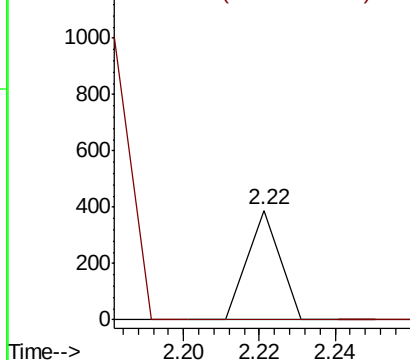
Ion Ratio Lower Upper

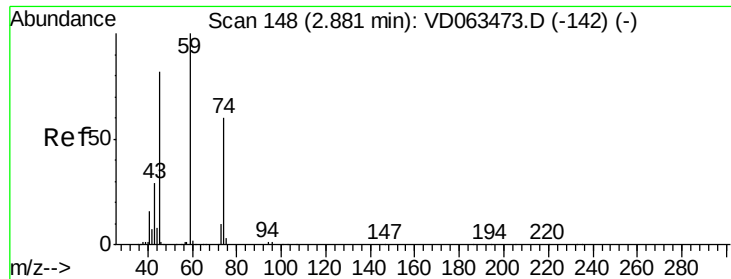
64 100

66 0.0 26.3 39.5#



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC





#8

Diethyl Ether

Concen: 4.080 ug/l

RT: 2.90 min Scan# 150

Delta R.T. 0.02 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

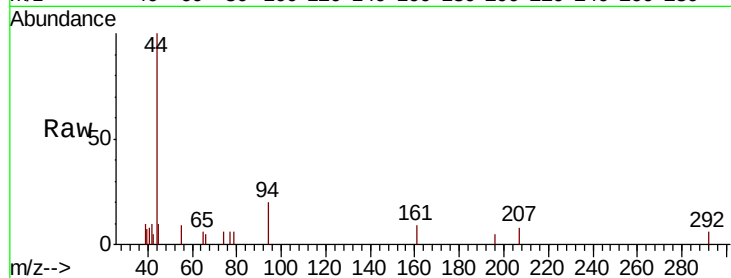
T8-A1-(4)

Tgt Ion: 74 Resp: 398

Ion Ratio Lower Upper

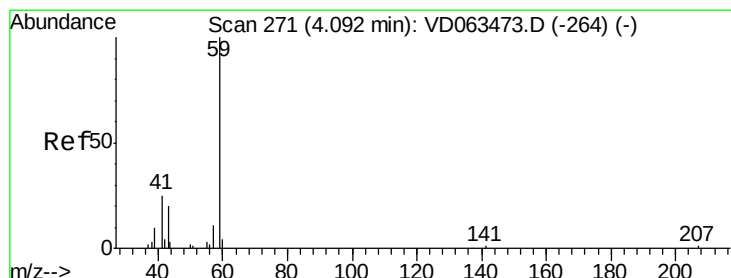
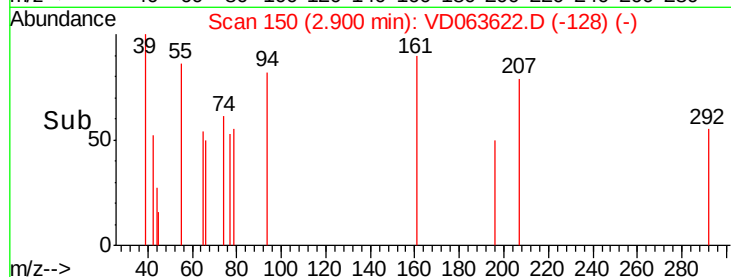
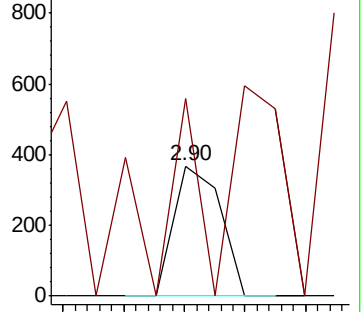
74 100

45 152.0 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 29.659 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.05 min

Lab File: VD063622.D

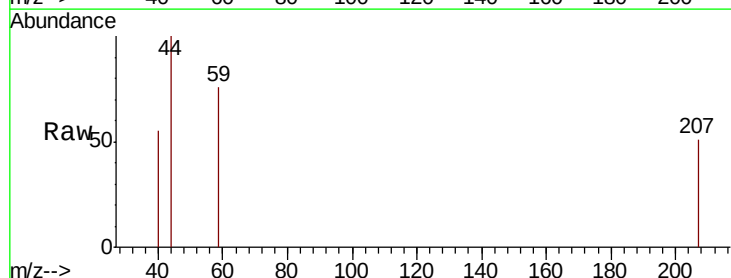
Acq: 15 Aug 2019 22:50

Tgt Ion: 59 Resp: 518

Ion Ratio Lower Upper

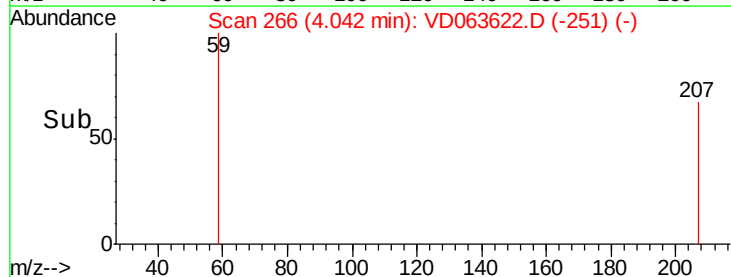
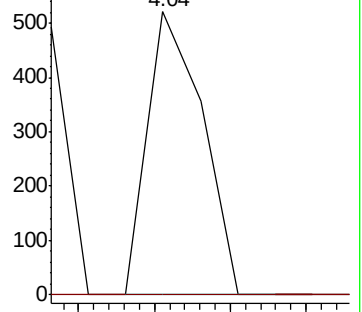
59 100

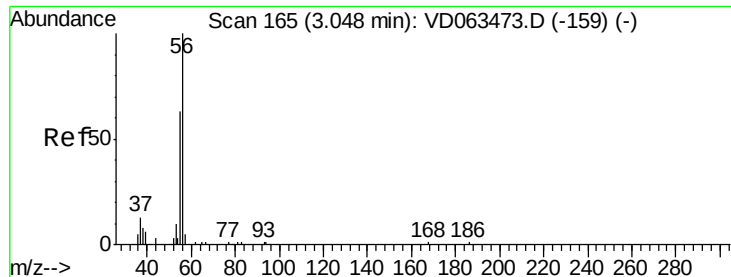
57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 12.099 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.01 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

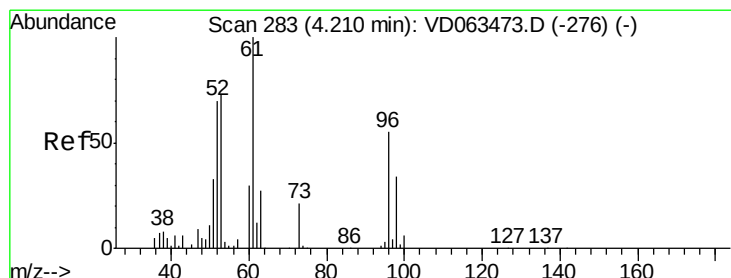
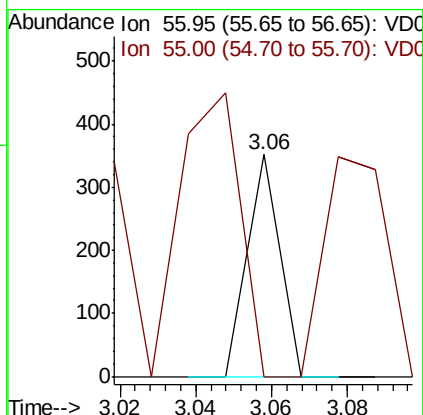
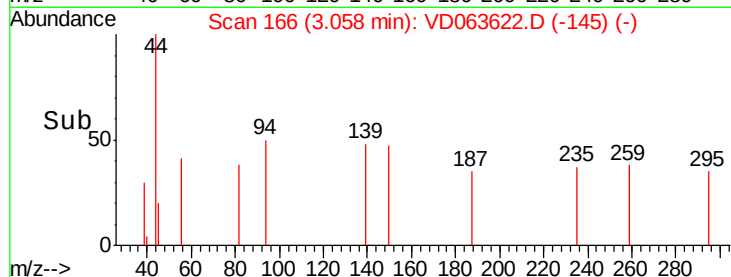
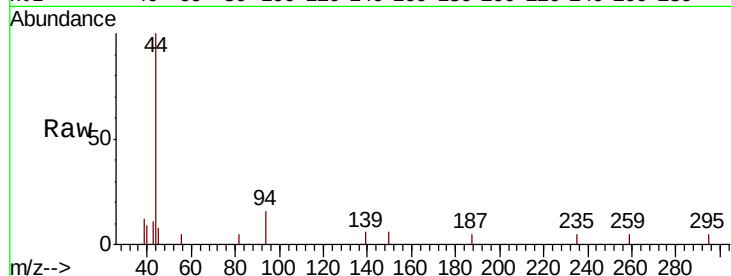
T8-A1-(4)

Tgt Ion: 56 Resp: 208

Ion Ratio Lower Upper

56 100

55 0.0 51.3 76.9#



#15

Acrylonitrile

Concen: 3.891 ug/l

RT: 4.31 min Scan# 293

Delta R.T. 0.10 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

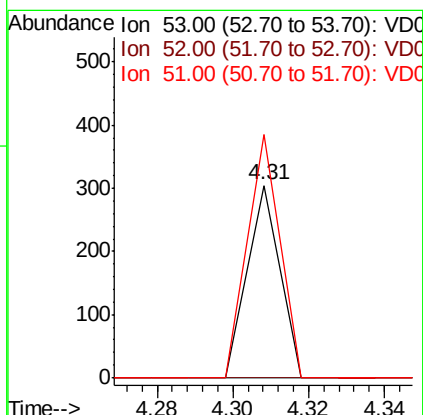
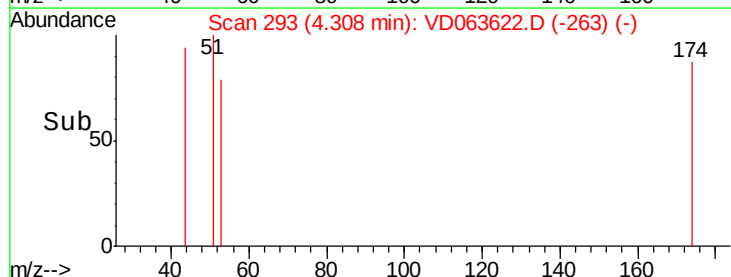
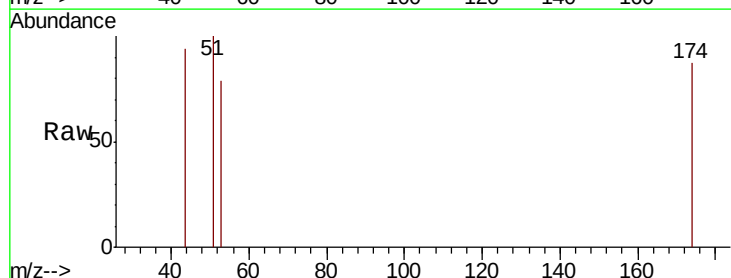
Tgt Ion: 53 Resp: 180

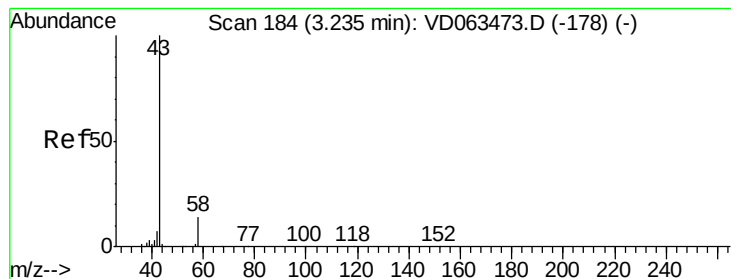
Ion Ratio Lower Upper

53 100

52 0.0 77.4 116.0#

51 126.2 36.7 55.1#





#16

Acetone

Concen: 457.441 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.03 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

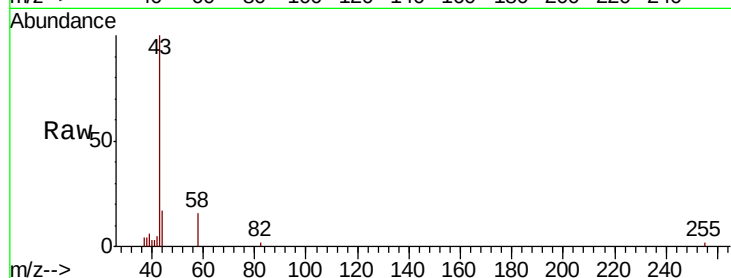
T8-A1-(4)

Tgt Ion: 43 Resp: 37307

Ion Ratio Lower Upper

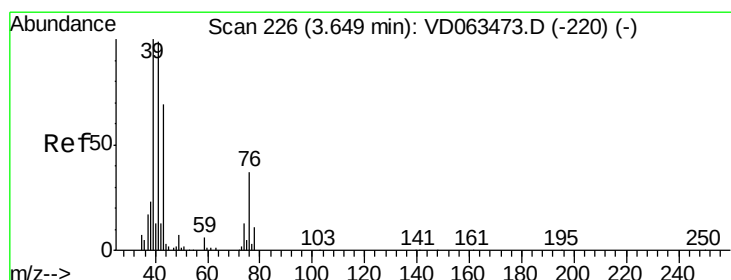
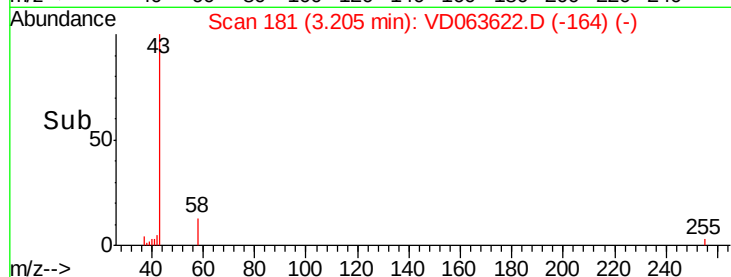
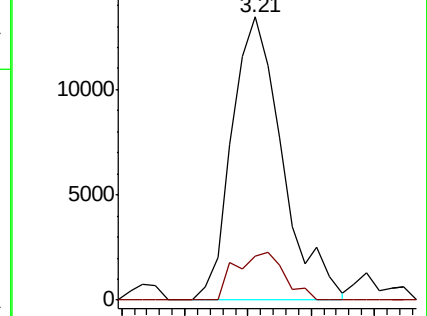
43 100

58 15.7 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 4.972 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD063622.D

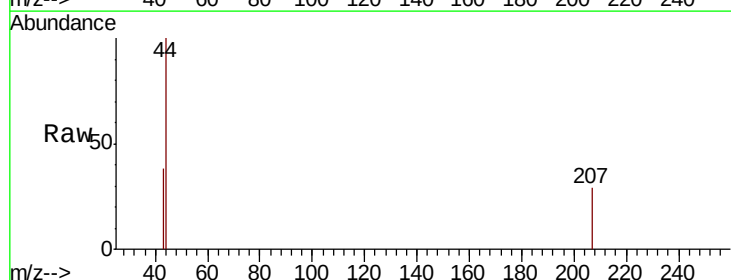
Acq: 15 Aug 2019 22:50

Tgt Ion: 43 Resp: 768

Ion Ratio Lower Upper

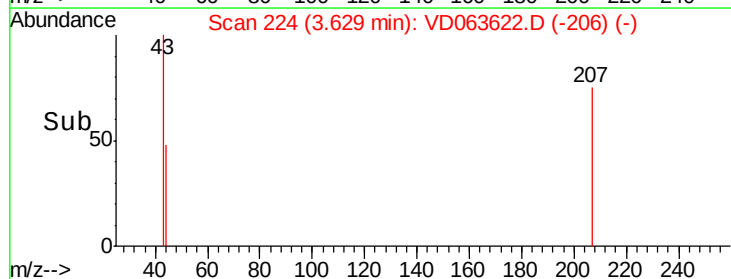
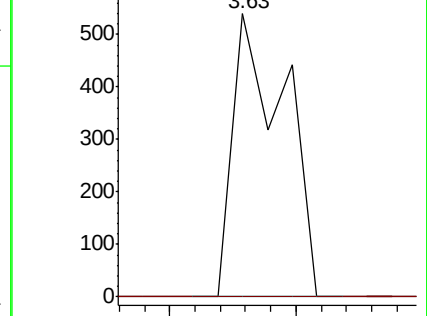
43 100

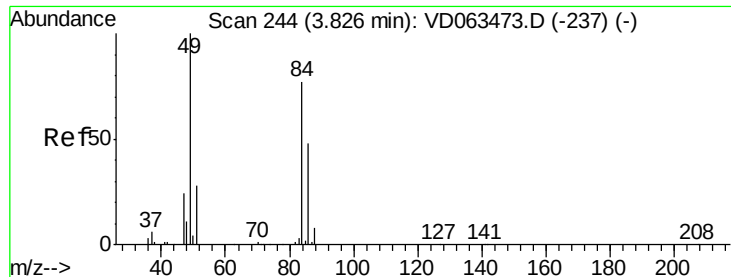
74 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

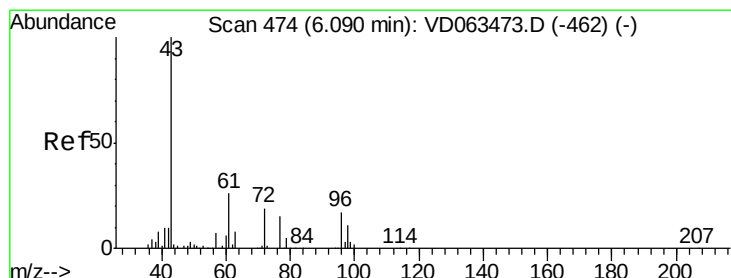
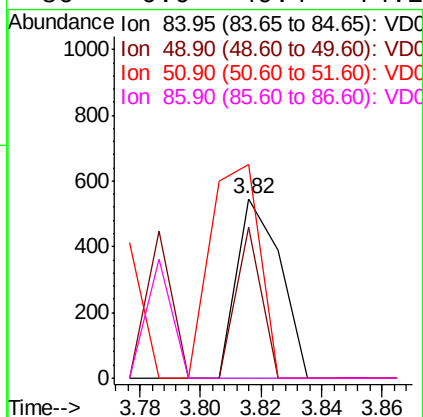
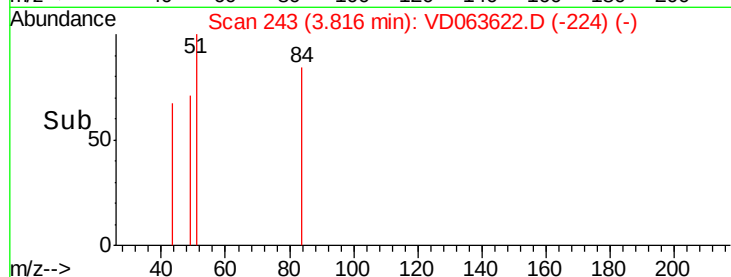
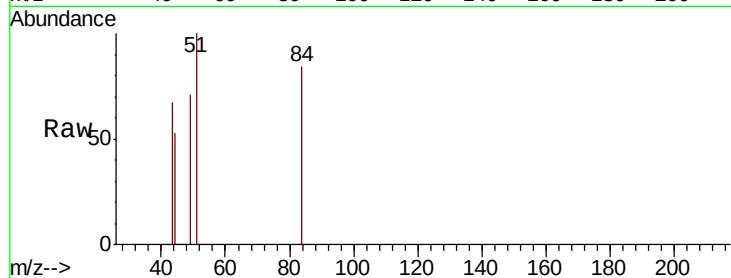




#20
Methylene Chloride
Concen: 1.565 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

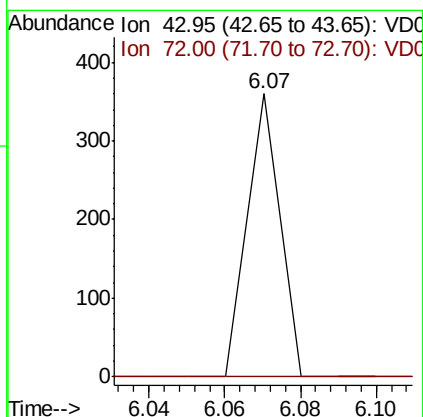
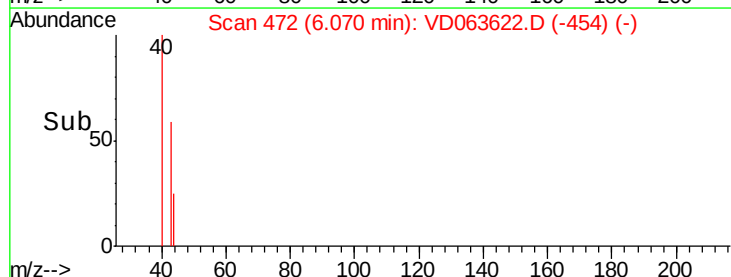
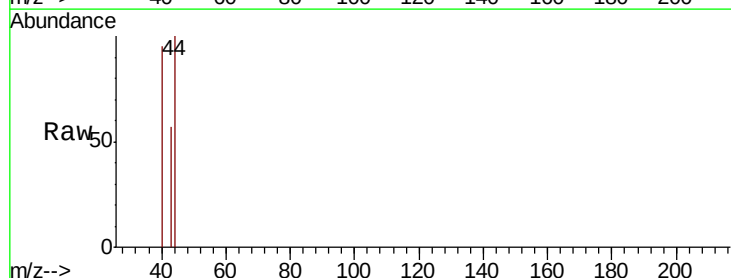
Instrument :
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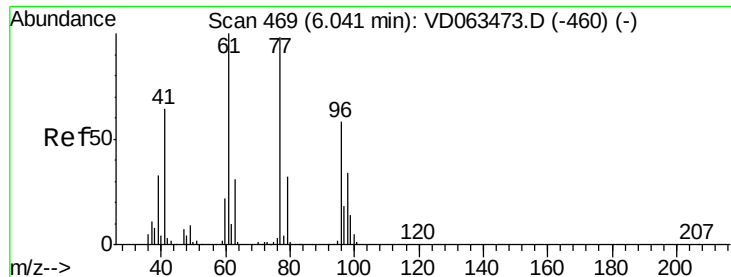
Tgt Ion: 84 Resp: 552
Ion Ratio Lower Upper
84 100
49 84.4 103.4 155.2#
51 119.0 28.5 42.7#
86 0.0 49.4 74.2#



#25
2-Butanone
Concen: 2.644 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Tgt Ion: 43 Resp: 213
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#





#26

2,2-Dichloropropane

Concen: 1.619 ug/l

RT: 6.13 min Scan# 478

Delta R.T. 0.09 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

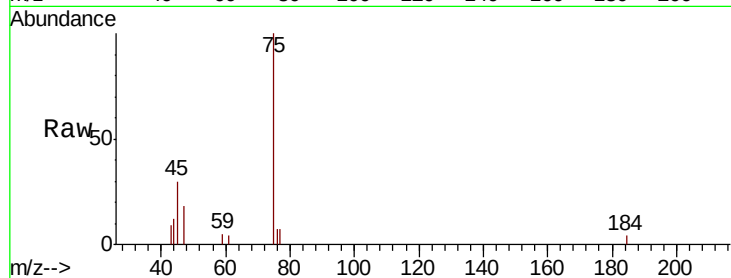
T8-A1-(4)

Tgt Ion: 77 Resp: 941

Ion Ratio Lower Upper

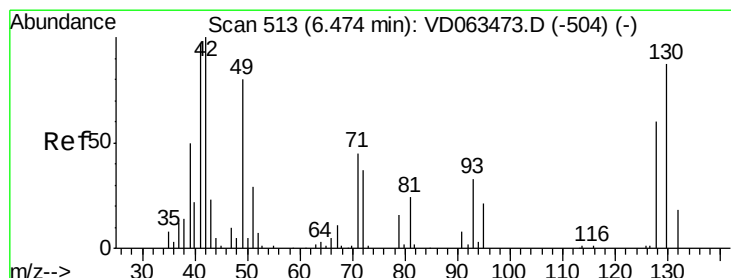
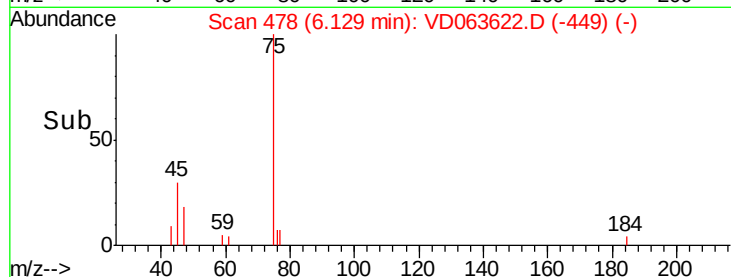
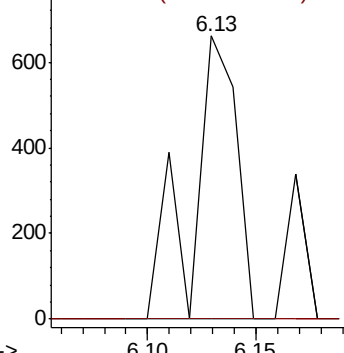
77 100

97 0.0 9.0 27.1#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 5.302 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

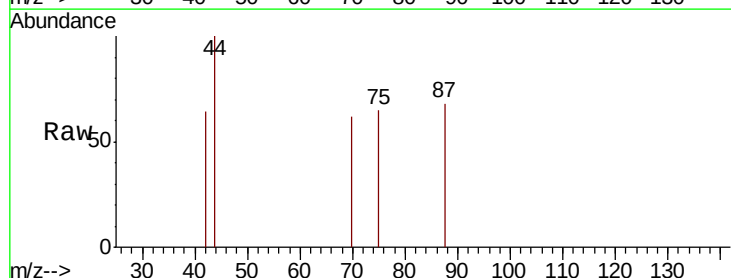
Tgt Ion: 42 Resp: 199

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

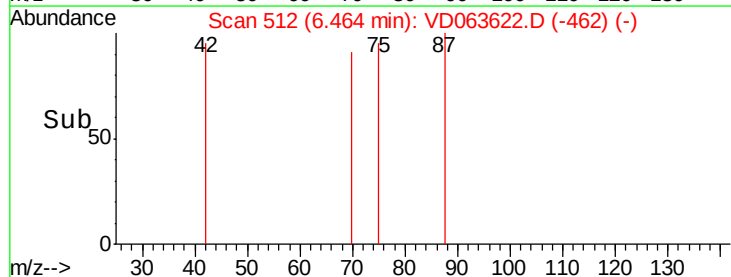
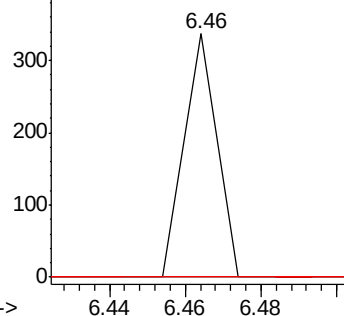
71 0.0 33.8 50.8#

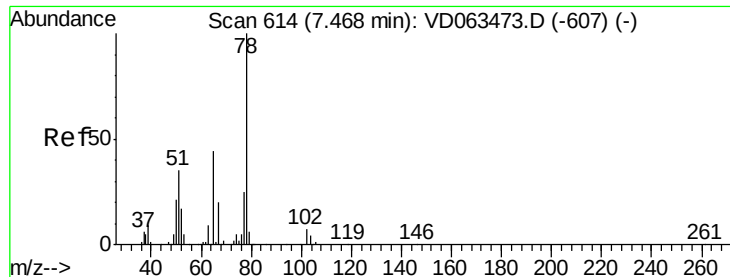


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 86.511 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.04 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

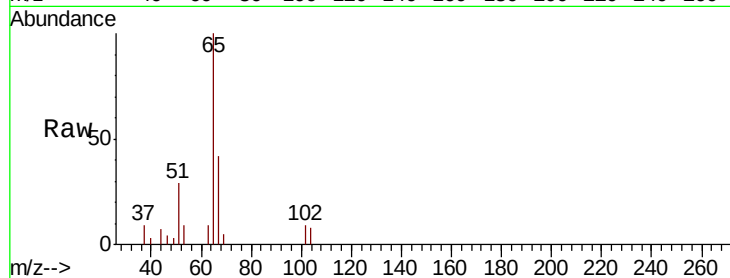
T8-A1-(4)

Tgt Ion: 65 Resp: 34708

Ion Ratio Lower Upper

65 100

67 41.6 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

12000

10000

8000

6000

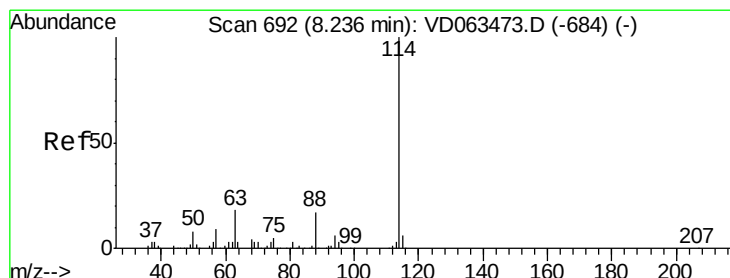
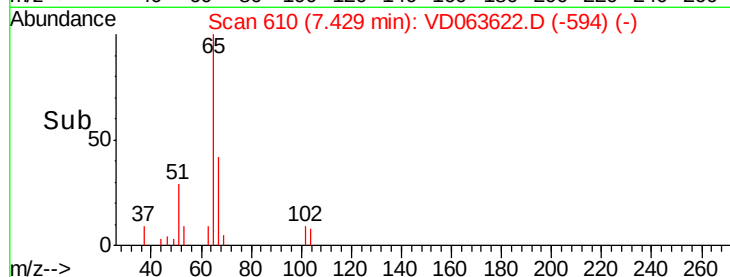
4000

2000

0

7.40 7.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

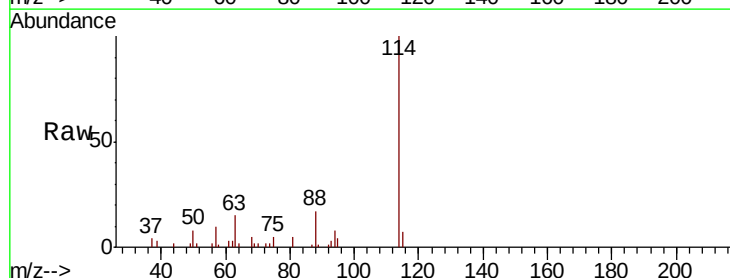
Tgt Ion: 114 Resp: 63518

Ion Ratio Lower Upper

114 100

63 14.7 0.0 36.2

88 16.9 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

30000

25000

20000

15000

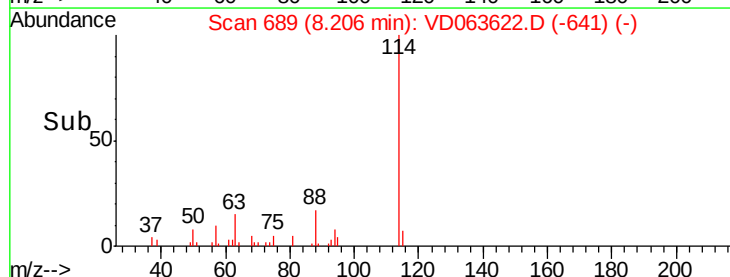
10000

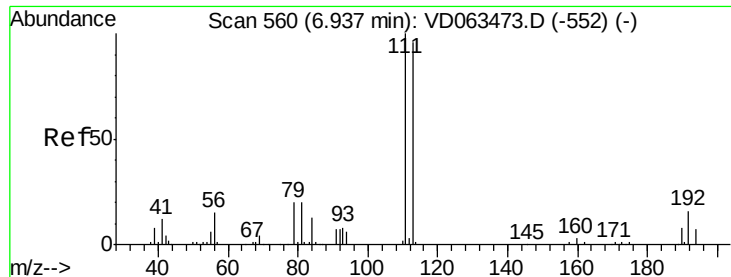
5000

0

8.10 8.20 8.30

Time-->





#35

Dibromofluoromethane

Concen: 59.297 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

T8-A1-(4)

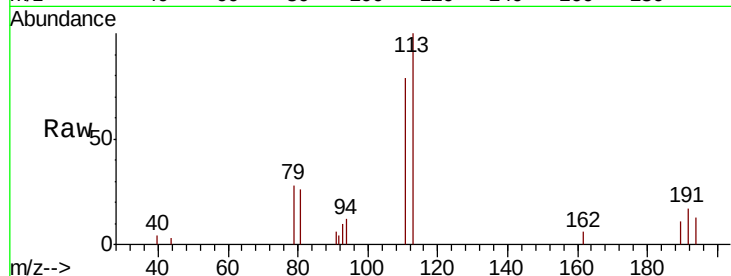
Tgt Ion:113 Resp: 31721

Ion Ratio Lower Upper

113 100

111 79.5 83.1 124.7#

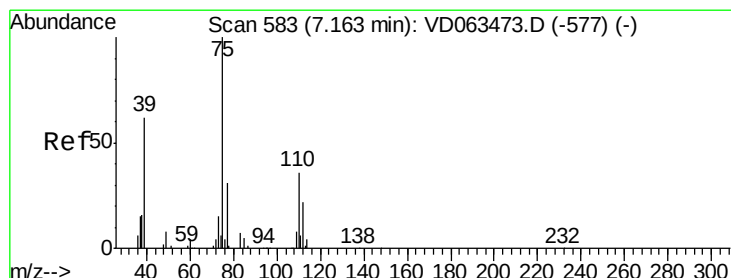
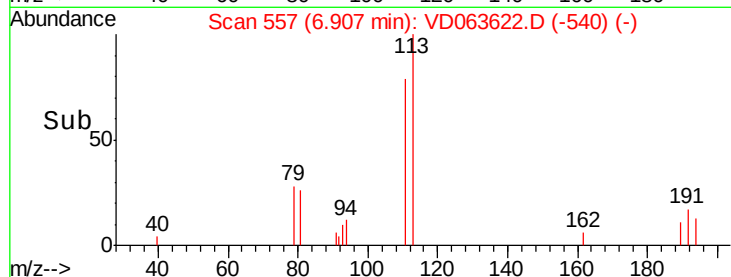
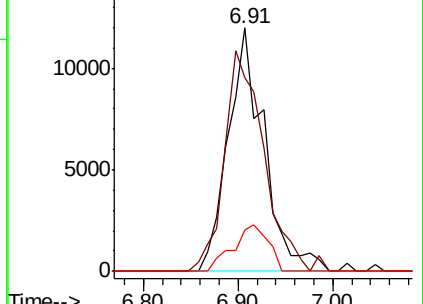
192 16.9 13.1 19.7



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: 4.604 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.14 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

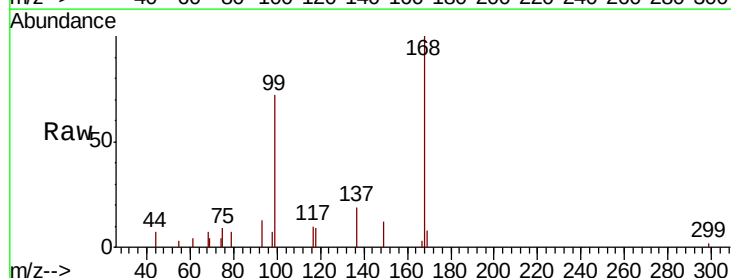
Tgt Ion: 75 Resp: 2585

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

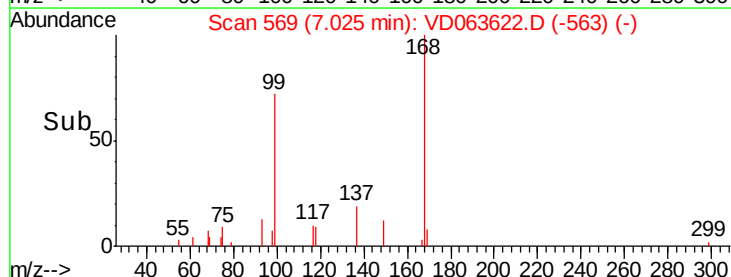
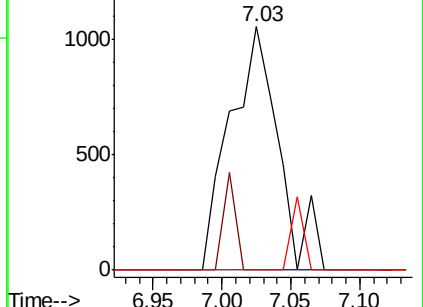
77 0.0 24.3 36.5#

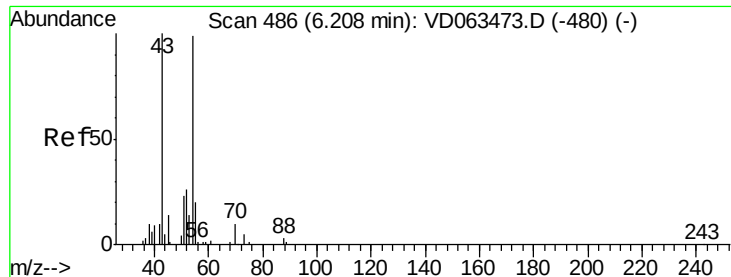


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 6.056 ug/l

RT: 6.13 min Scan# 478

Delta R.T. -0.08 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

T8-A1-(4)

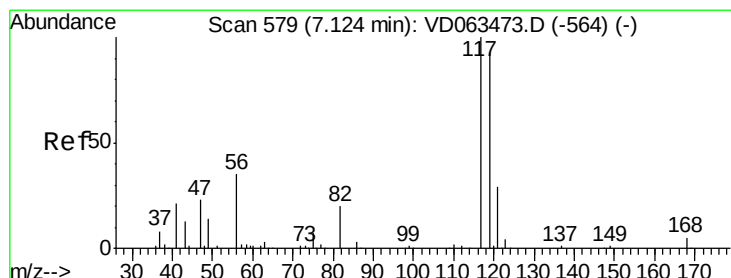
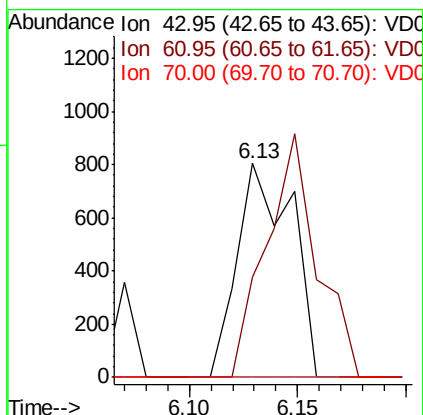
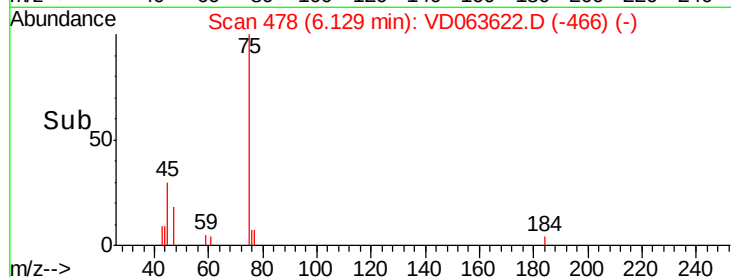
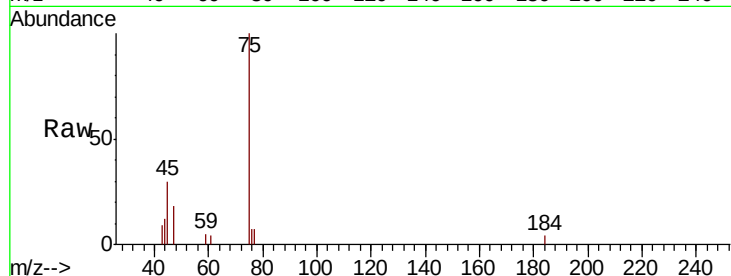
Tgt Ion: 43 Resp: 1425

Ion Ratio Lower Upper

43 100

61 47.1 9.0 13.6#

70 0.0 6.9 10.3#



#38

Carbon Tetrachloride

Concen: 3.824 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

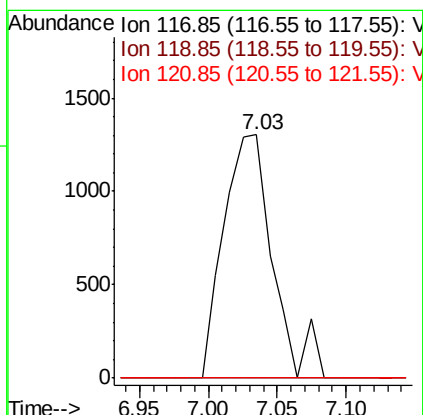
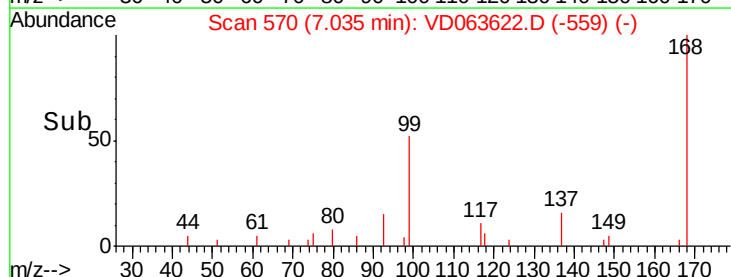
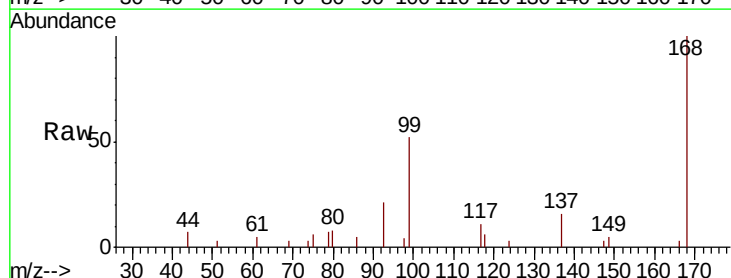
Tgt Ion: 117 Resp: 3236

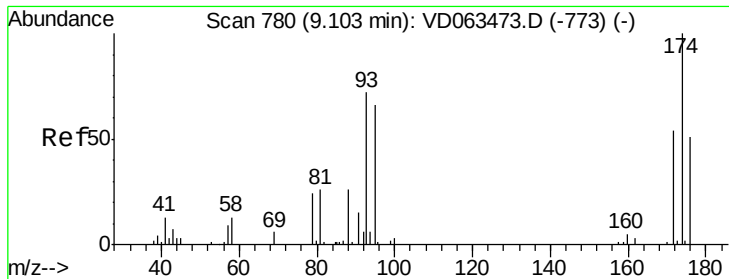
Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

121 0.0 23.1 34.7#

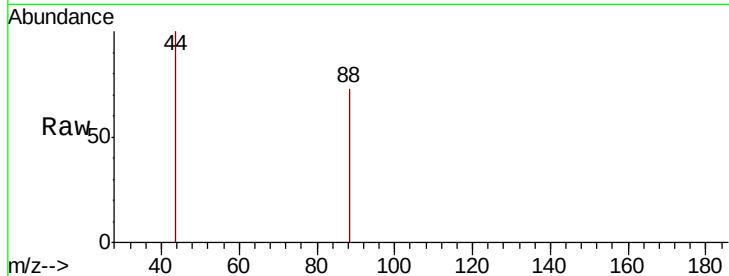




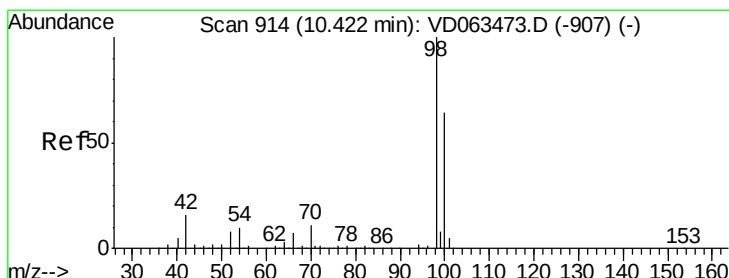
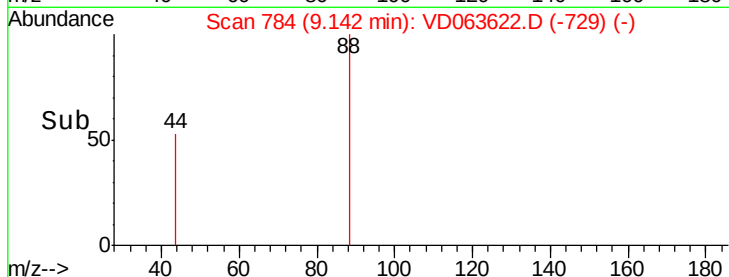
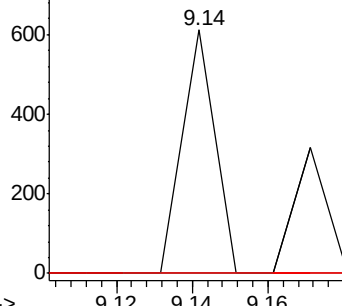
#49
1,4-Dioxane
Concen: 209.731 ug/l
RT: 9.14 min Scan# 784
Delta R.T. 0.04 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Instrument :
MSVOA_D
ClientSampleId :
T8-A1-(4)

Tgt Ion: 88 Resp: 362
Ion Ratio Lower Upper
88 100
43 137.9 22.9 34.3#
58 0.0 40.1 60.1#

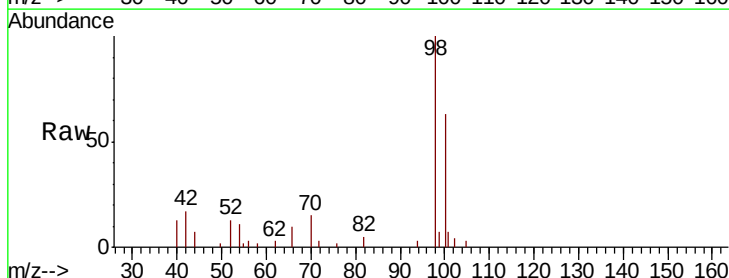


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

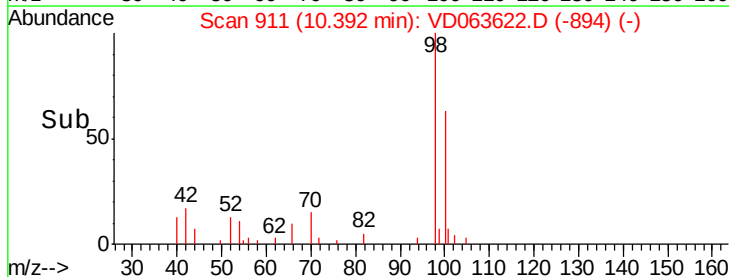
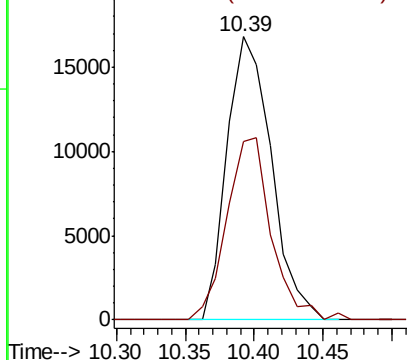


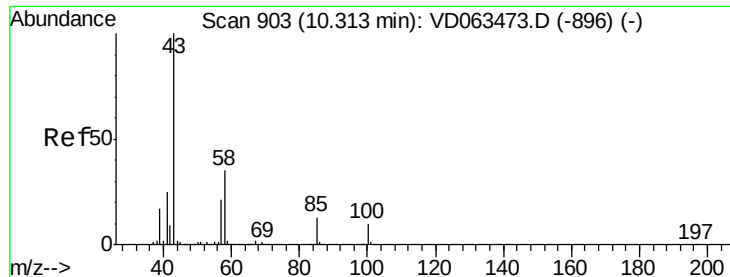
#50
Toluene-d8
Concen: 32.043 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.03 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Tgt Ion: 98 Resp: 37686
Ion Ratio Lower Upper
98 100
100 70.1 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

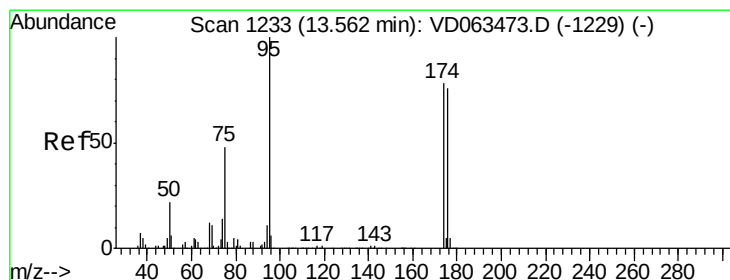
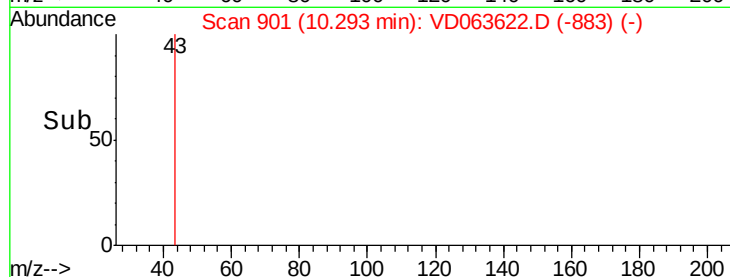
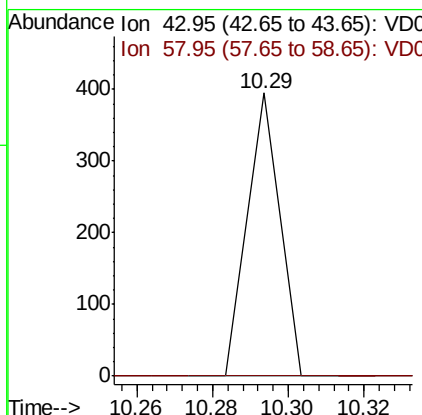
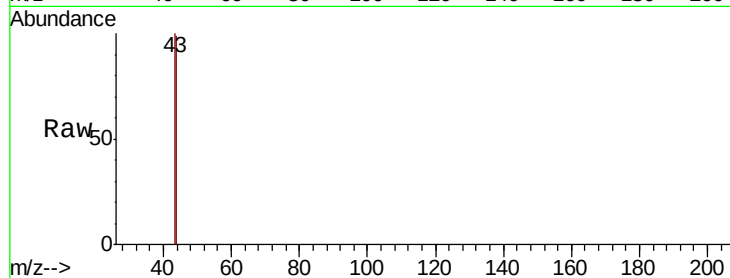




#51
 4-Methyl-2-Pentanone
 Concen: 1.081 ug/l
 RT: 10.29 min Scan# 901
 Delta R.T. -0.02 min
 Lab File: VD063622.D
 Acq: 15 Aug 2019 22:50

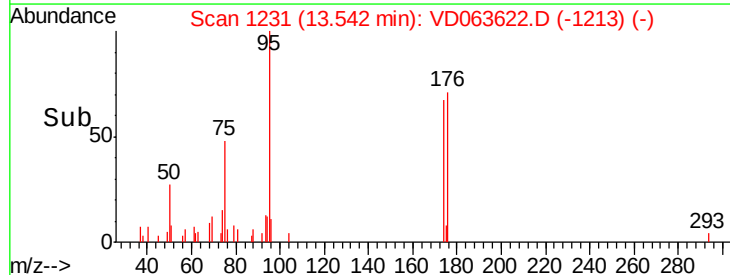
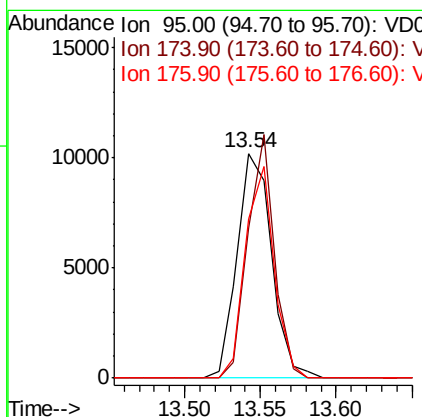
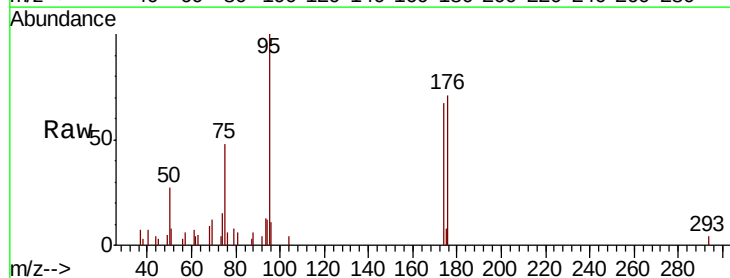
Instrument :
 MSVOA_D
 ClientSampleId :
 T8-A1-(4)

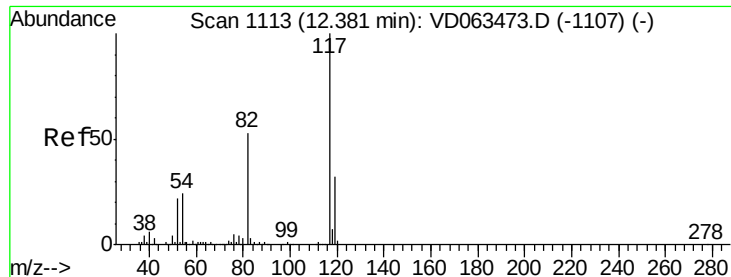
Tgt Ion: 43 Resp: 233
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 42.0#



#62
 4-Bromofluorobenzene
 Concen: 30.377 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VD063622.D
 Acq: 15 Aug 2019 22:50

Tgt Ion: 95 Resp: 16193
 Ion Ratio Lower Upper
 95 100
 174 67.0 0.0 155.4
 176 71.0 0.0 152.4

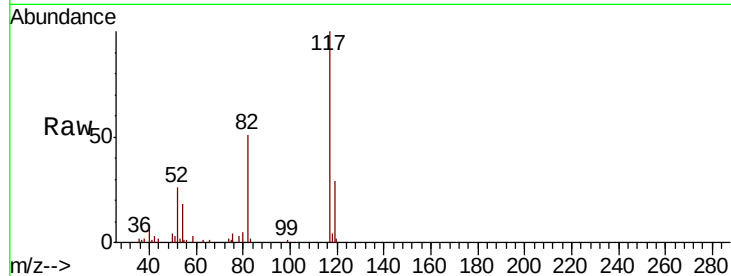




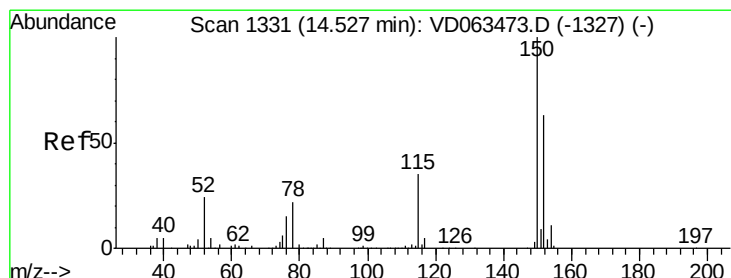
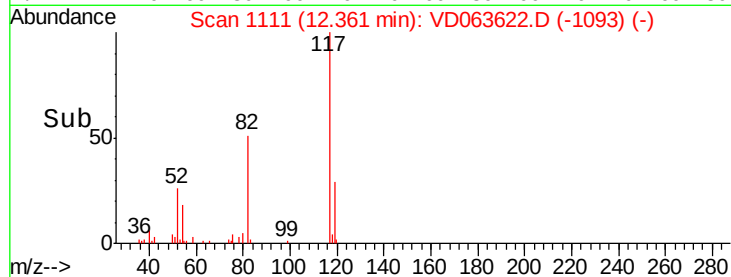
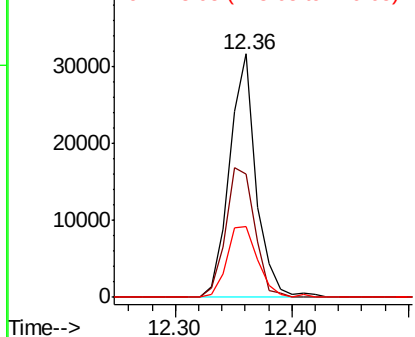
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Instrument :
MSVOA_D
ClientSampleId :
T8-A1-(4)

Tgt Ion:117 Resp: 49779
Ion Ratio Lower Upper
117 100
82 50.8 42.0 63.0
119 29.3 25.4 38.0

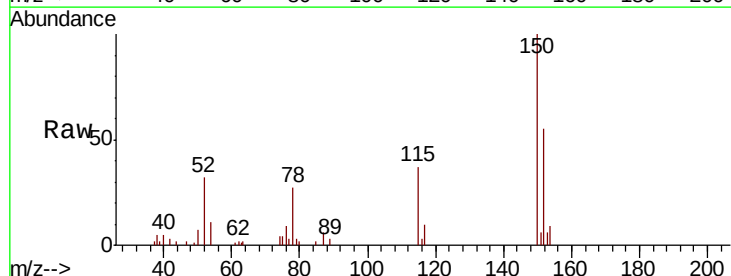


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

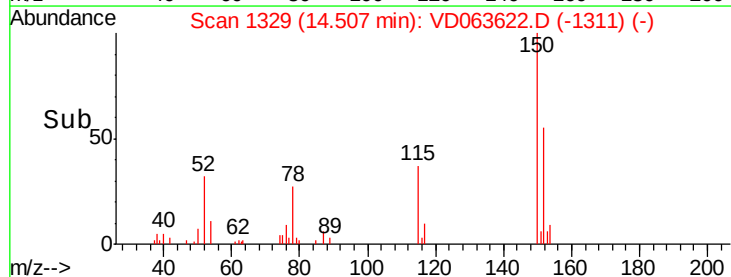
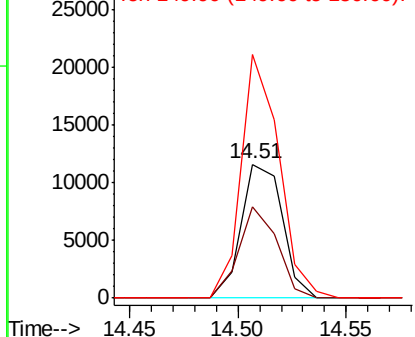


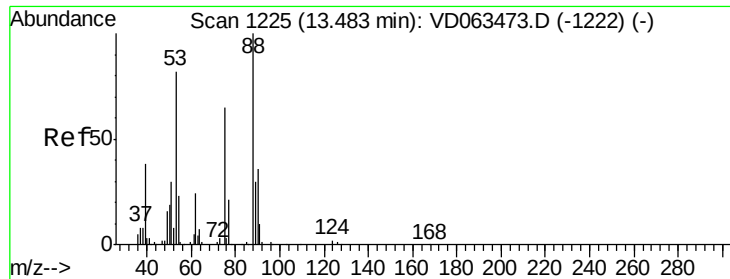
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Tgt Ion:152 Resp: 15493
Ion Ratio Lower Upper
152 100
115 68.3 30.9 92.7
150 182.3 0.0 318.6



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: 122.850 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

Instrument :

MSVOA_D

ClientSampleId :

T8-A1-(4)

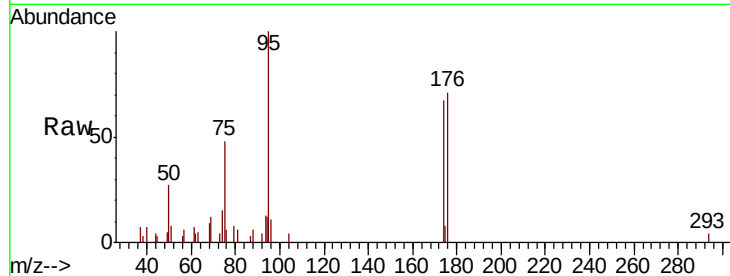
Tgt Ion: 75 Resp: 5871

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

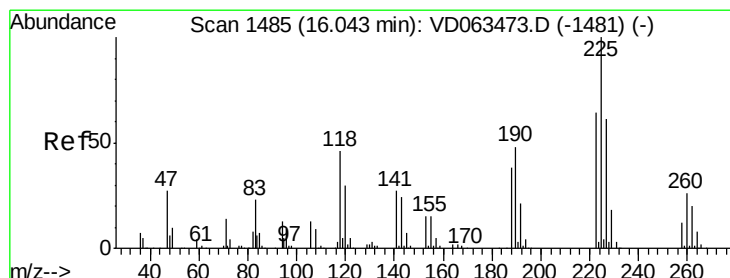
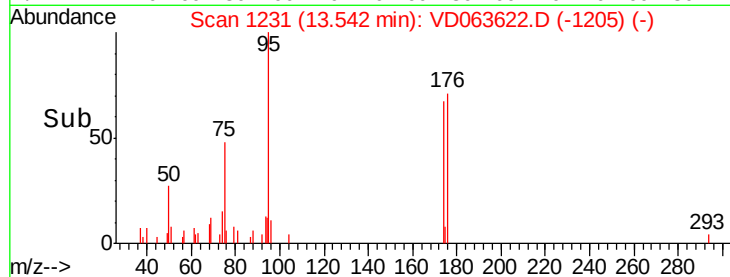
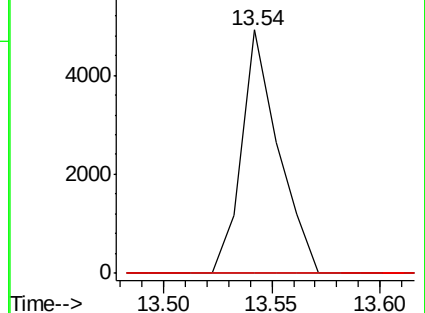
89 0.0 37.0 55.6#



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



#94

Hexachlorobutadiene

Concen: 1.018 ug/l

RT: 15.96 min Scan# 1477

Delta R.T. -0.08 min

Lab File: VD063622.D

Acq: 15 Aug 2019 22:50

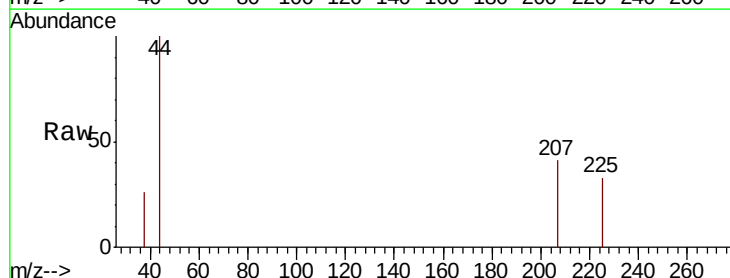
Tgt Ion: 225 Resp: 236

Ion Ratio Lower Upper

225 100

223 0.0 31.9 95.5#

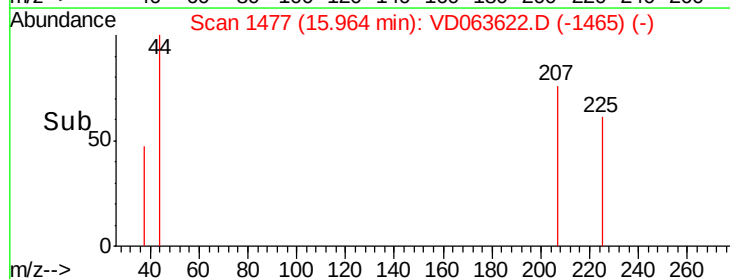
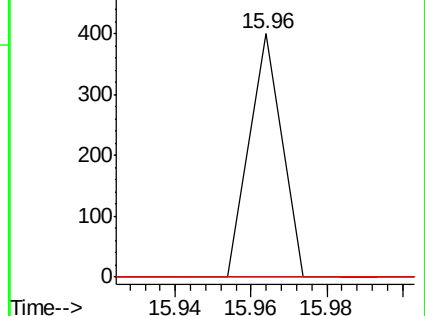
227 0.0 30.7 92.1#

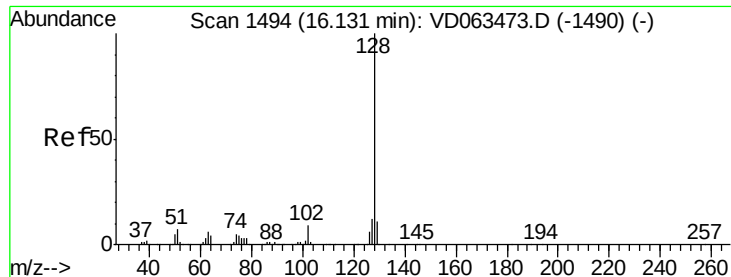


Abundance Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V





#95
Naphthalene
Concen: 2.185 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VD063622.D
Acq: 15 Aug 2019 22:50

Instrument :
MSVOA_D
ClientSampleId :
T8-A1-(4)

Tgt Ion:128 Resp: 1007
Ion Ratio Lower Upper
128 100
127 0.0 9.4 14.0#
129 0.0 8.5 12.7#

