

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD081919\
 Data File : VD063654.D
 Acq On : 19 Aug 2019 13:41
 Operator : JC/SY
 Sample : K4406-01
 Misc : 5.19g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TT-011-IDWSO-20190816

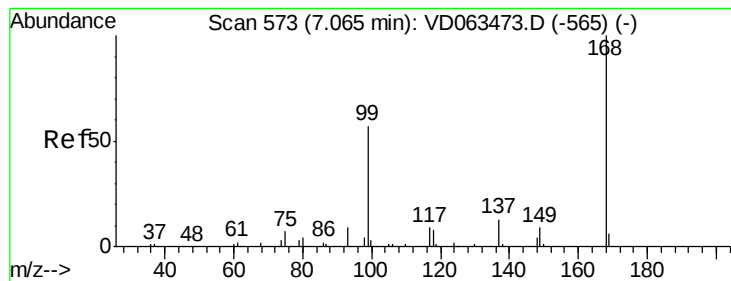
Quant Time: Aug 20 08:14:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	371836	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	535175	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	439310	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	232325	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	221648	55.77	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.54%	
35) Dibromofluoromethane	6.92	113	204547	45.38	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	90.76%	
50) Toluene-d8	10.41	98	399004	40.26	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	80.52%	
62) 4-Bromofluorobenzene	13.55	95	196610	43.77	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	2954	1.794	ug/l #	46
10) Methyl Iodide	3.31	142	7915	1.384	ug/l #	58
11) Tert butyl alcohol	4.11	59	383	2.214	ug/l #	71
13) Acrolein	3.00	56	520	3.053	ug/l	95
16) Acetone	3.21	43	766301	948.432	ug/l	98
18) Methyl Acetate	3.64	43	14993	9.797	ug/l	92
20) Methylene Chloride	3.80	84	9545	2.732	ug/l #	83
25) 2-Butanone	6.10	43	1156	1.449	ug/l #	58
31) Cyclohexane	7.03	56	8263	2.302	ug/l #	14
36) 1,1-Dichloropropene	7.04	75	28290	5.980	ug/l #	50
38) Carbon Tetrachloride	7.04	117	37472	5.255	ug/l #	17
81) trans-1,4-Dichloro-2-buten	13.55	75	88490	123.480	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

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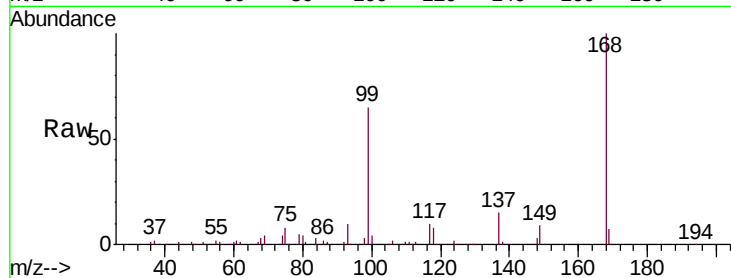
TT-011-IDWSO-20190816

Tgt Ion:168 Resp: 371836

Ion Ratio Lower Upper

168 100

99 65.5 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

150000

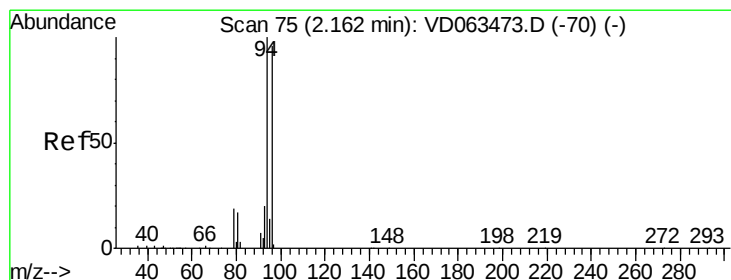
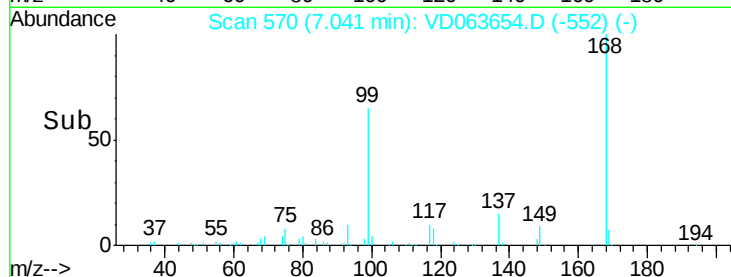
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.794 ug/l

RT: 2.16 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

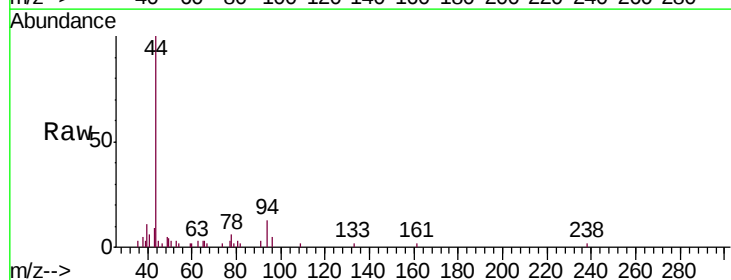
Tgt Ion: 94 Resp: 2954

Ion Ratio Lower Upper

94 100

96 40.4 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

2.16

3000

2500

2000

1500

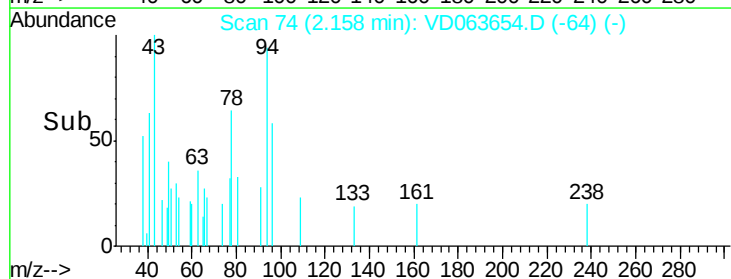
1000

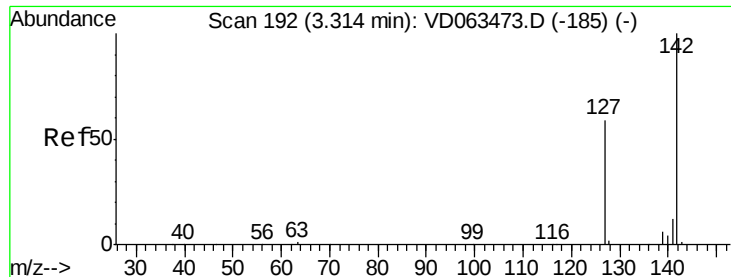
500

0

Time-->

2.10 2.15 2.20

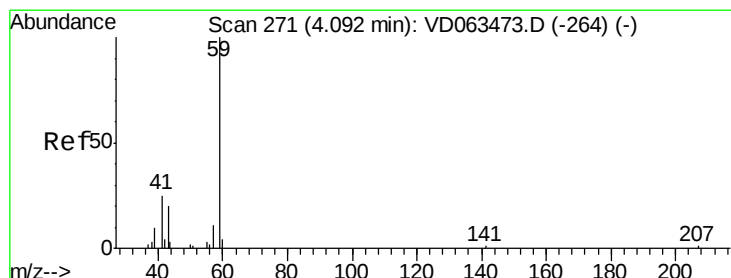
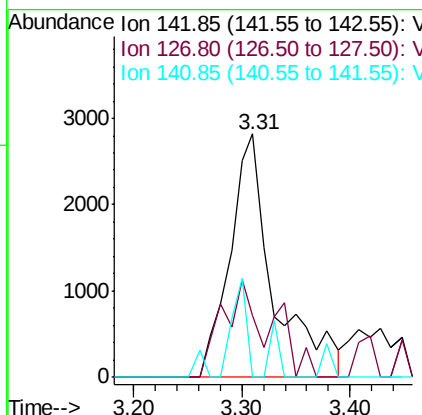
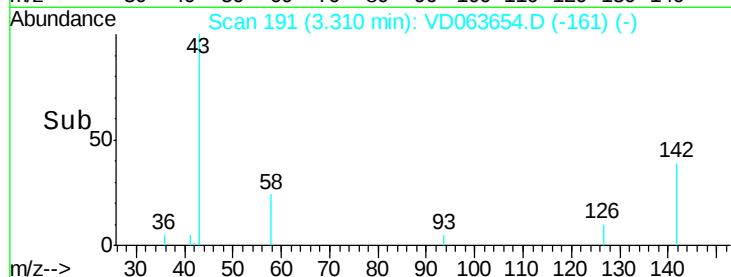
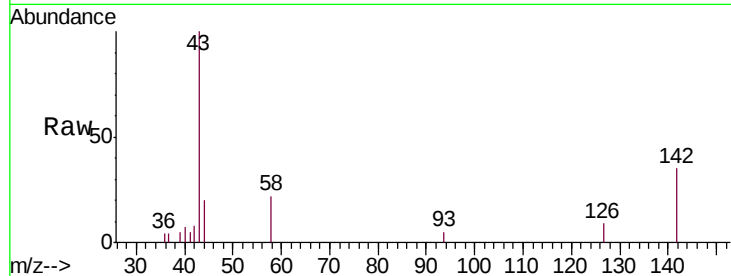




#10
Methyl Iodide
Concen: 1.384 ug/l
RT: 3.31 min Scan# 191
Delta R.T. -0.00 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

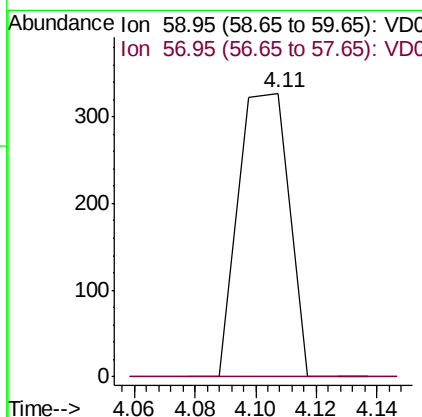
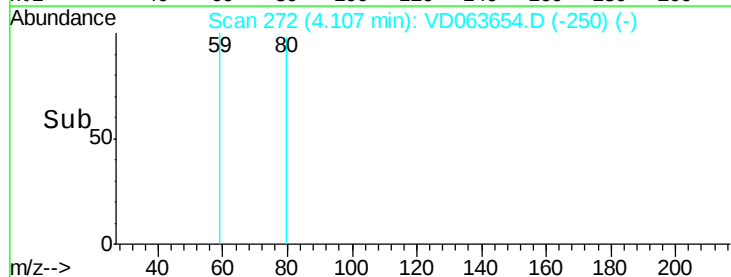
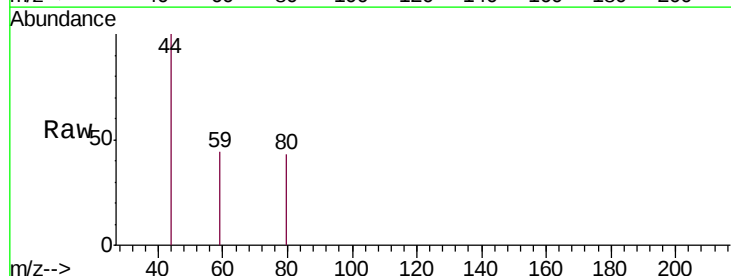
Instrument :
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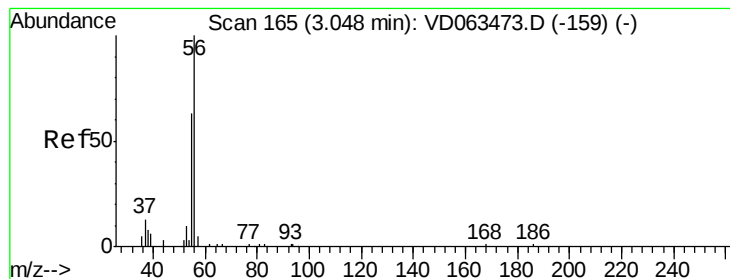
Tgt Ion: 142 Resp: 7915
Ion Ratio Lower Upper
142 100
127 25.5 47.2 70.8#
141 0.0 9.8 14.8#



#11
Tert butyl alcohol
Concen: 2.214 ug/l
RT: 4.11 min Scan# 272
Delta R.T. 0.02 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

Tgt Ion: 59 Resp: 383
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#13

Acrolein

Concen: 3.053 ug/l

RT: 3.00 min Scan# 159

Delta R.T. -0.05 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

Instrument :

MSVOA_D

ClientSampleId :

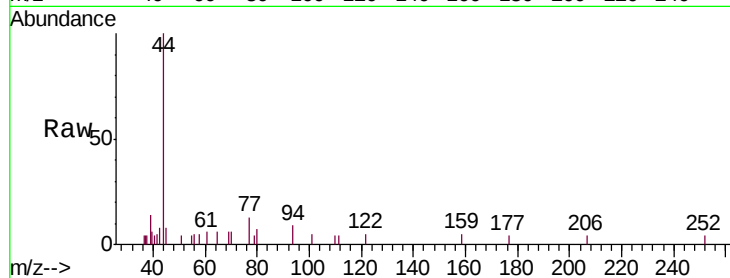
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Tgt Ion: 56 Resp: 520

Ion Ratio Lower Upper

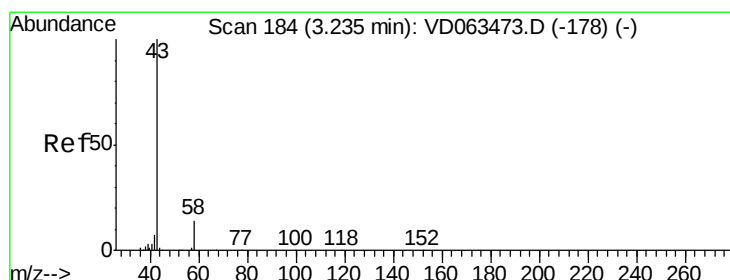
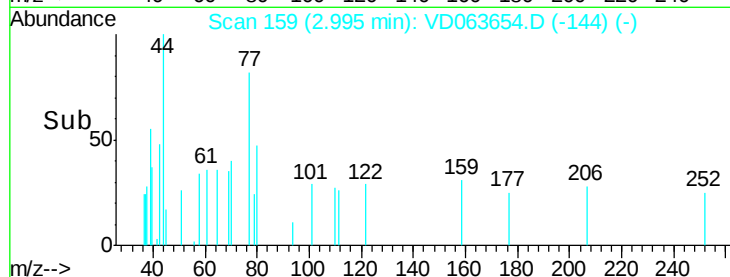
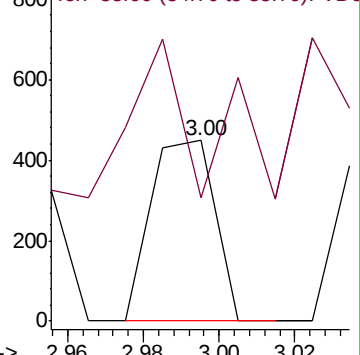
56 100

55 68.2 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 948.432 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063654.D

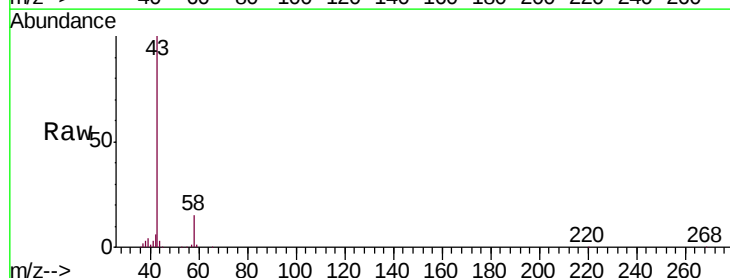
Acq: 19 Aug 2019 13:41

Tgt Ion: 43 Resp: 766301

Ion Ratio Lower Upper

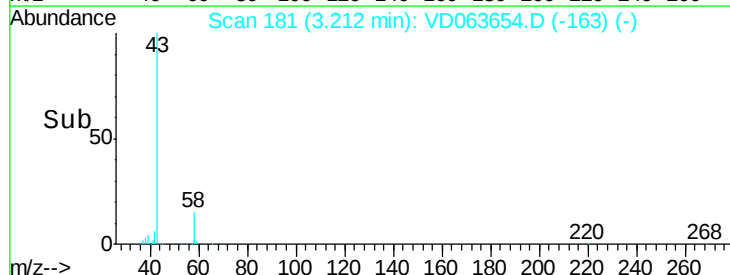
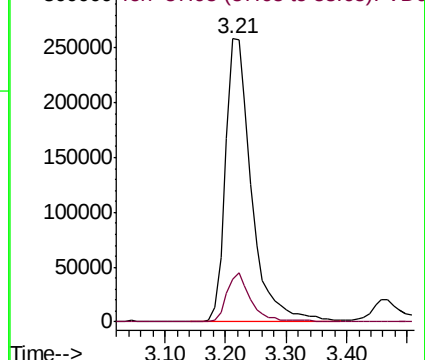
43 100

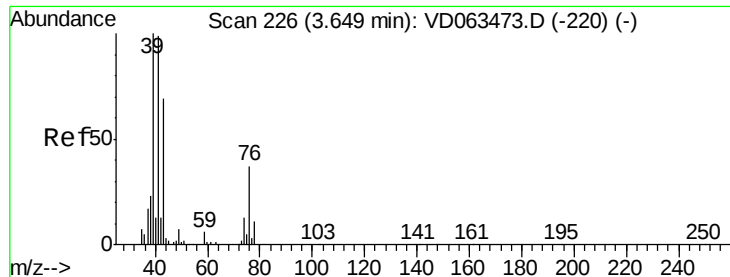
58 15.1 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

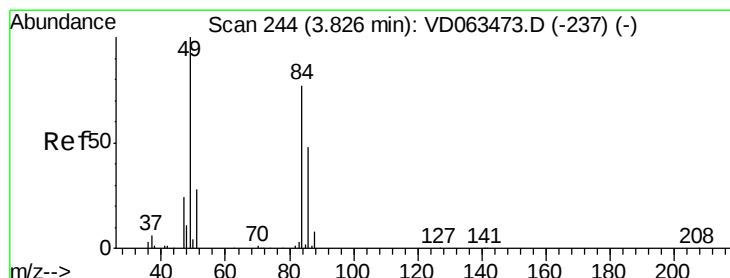
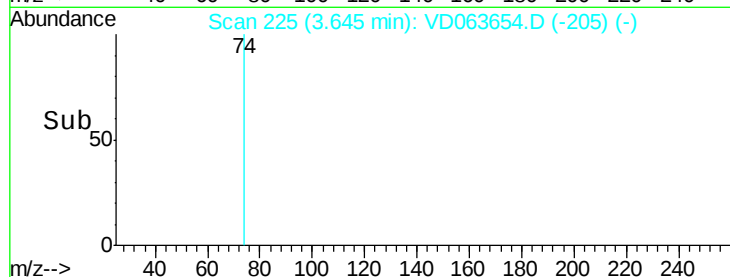
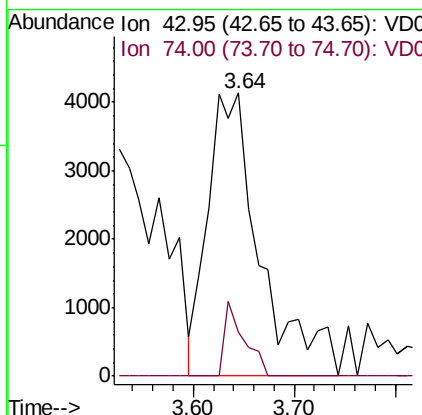
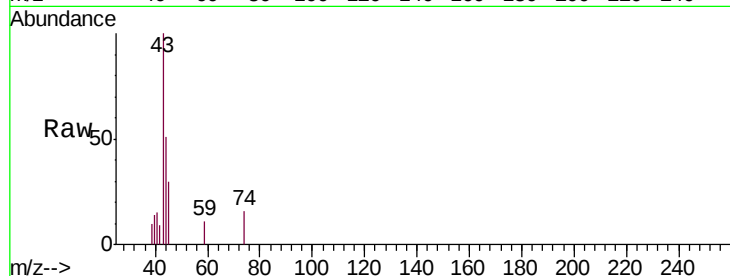




#18
Methyl Acetate
Concen: 9.797 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

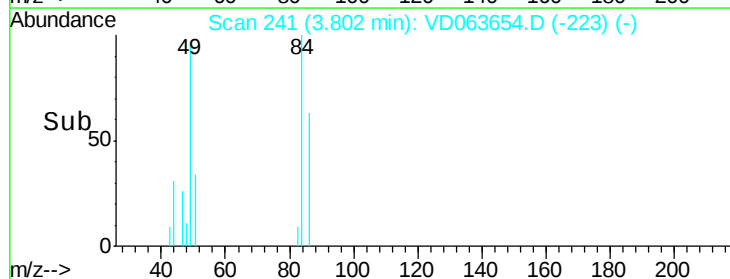
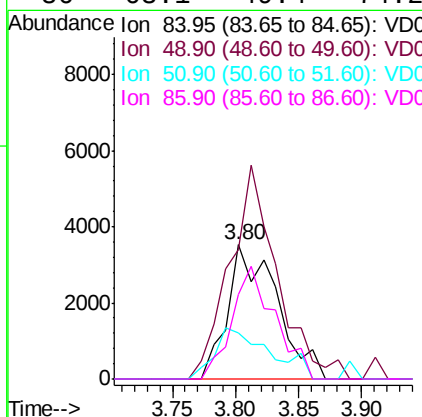
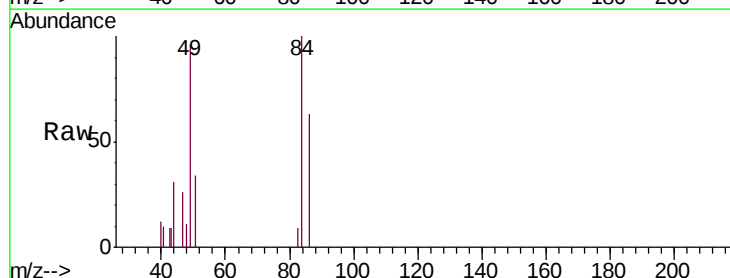
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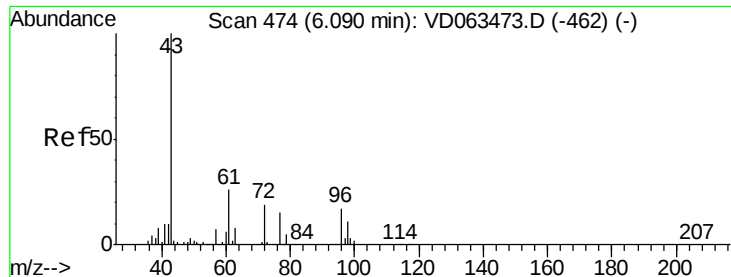
Tgt Ion: 43 Resp: 14993
Ion Ratio Lower Upper
43 100
74 15.7 15.4 23.2



#20
Methylene Chloride
Concen: 2.732 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

Tgt Ion: 84 Resp: 9545
Ion Ratio Lower Upper
84 100
49 96.0 103.4 155.2#
51 34.3 28.5 42.7
86 63.1 49.4 74.2





#25

2-Butanone

Concen: 1.449 ug/l

RT: 6.10 min Scan# 474

Delta R.T. 0.01 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

Instrument :

MSVOA_D

ClientSampleId :

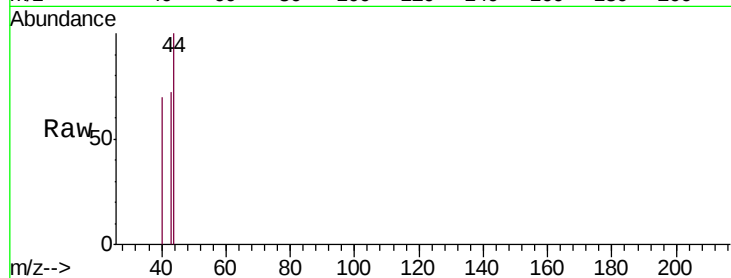
TT-011-IDWSO-20190816

Tgt Ion: 43 Resp: 1156

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.10

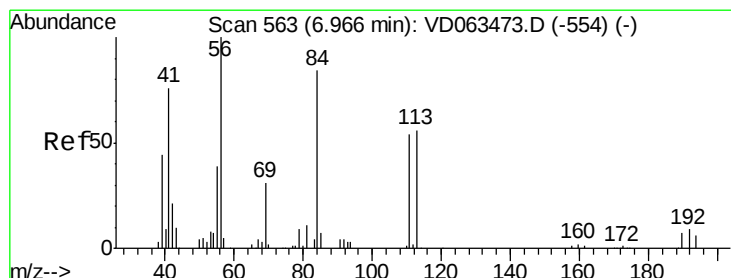
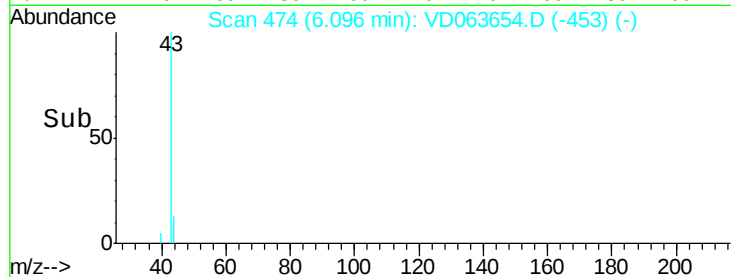
600

400

200

0

Time--> 6.05 6.10 6.15



#31

Cyclohexane

Concen: 2.302 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.06 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

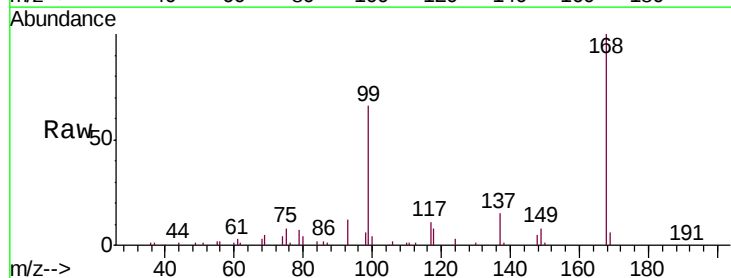
Tgt Ion: 56 Resp: 8263

Ion Ratio Lower Upper

56 100

69 191.9 25.0 37.6#

84 75.7 69.7 104.5



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

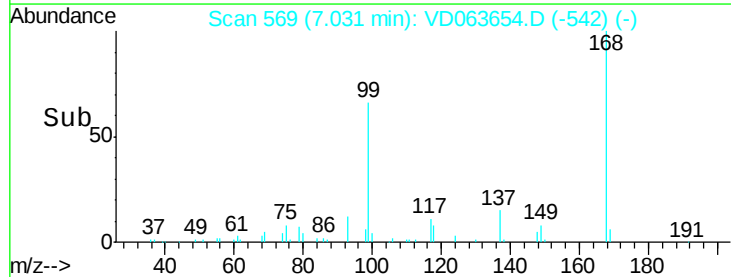
6000

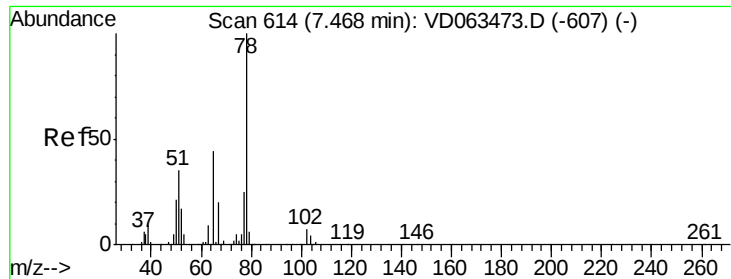
4000

2000

0

Time--> 6.95 7.00 7.05 7.10

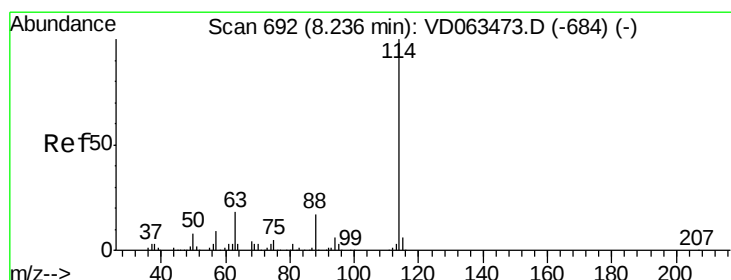
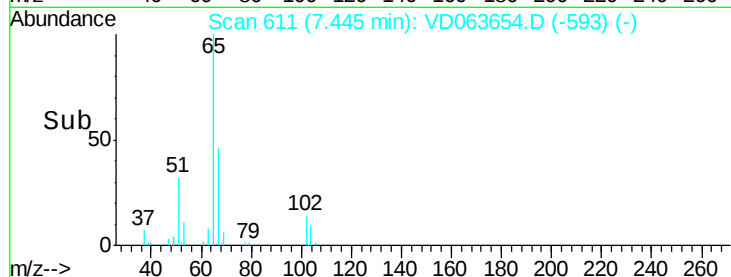
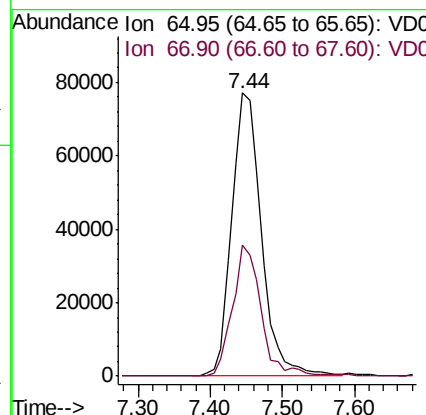
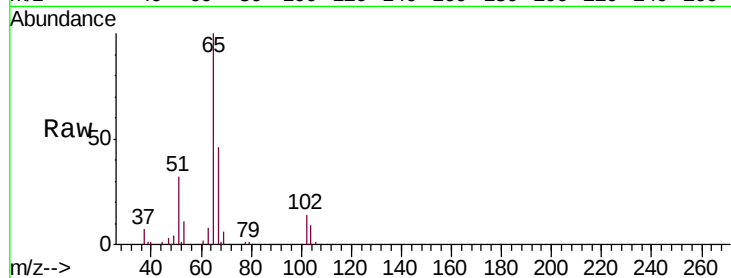




#33
 1,2-Dichloroethane-d4
 Concen: 55.766 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063654.D
 Acq: 19 Aug 2019 13:41

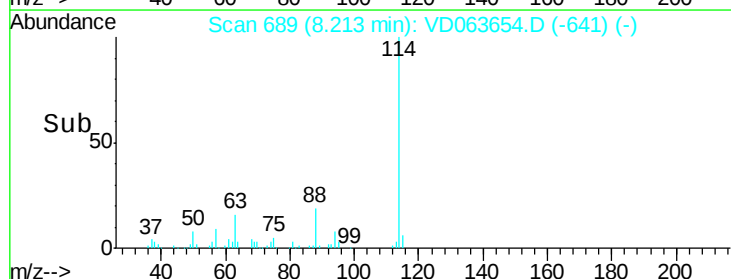
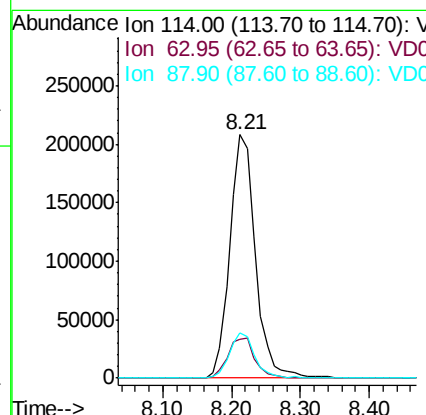
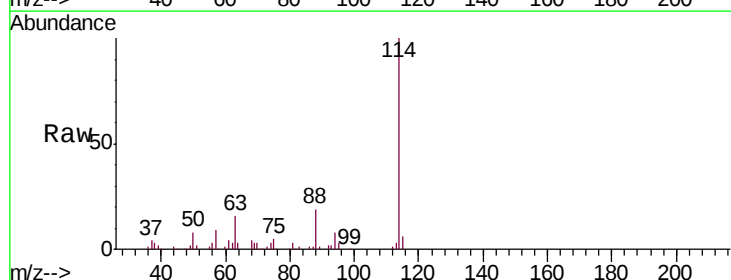
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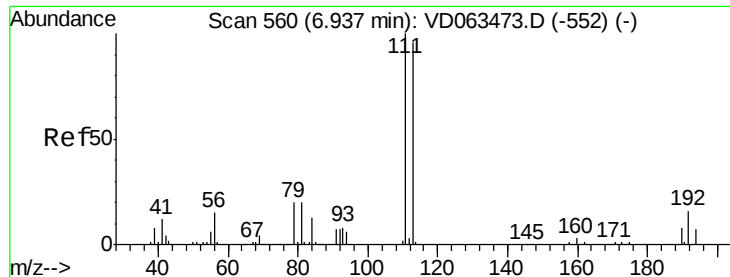
Tgt Ion: 65 Resp: 221648
 Ion Ratio Lower Upper
 65 100
 67 46.1 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.02 min
 Lab File: VD063654.D
 Acq: 19 Aug 2019 13:41

Tgt Ion: 114 Resp: 535175
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 36.2
 88 18.6 0.0 35.0





#35

Dibromofluoromethane

Concen: 45.381 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

Instrument :

MSVOA_D

ClientSampleId :

TT-011-IDWSO-20190816

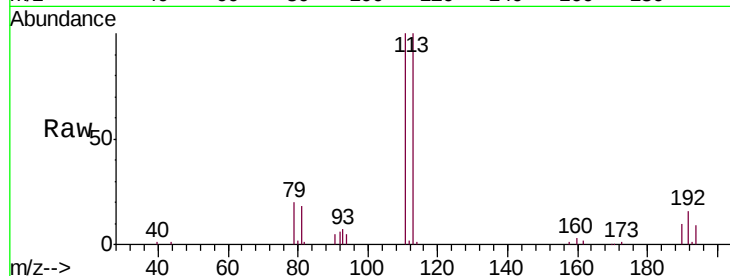
Tgt Ion:113 Resp: 204547

Ion Ratio Lower Upper

113 100

111 100.0 83.1 124.7

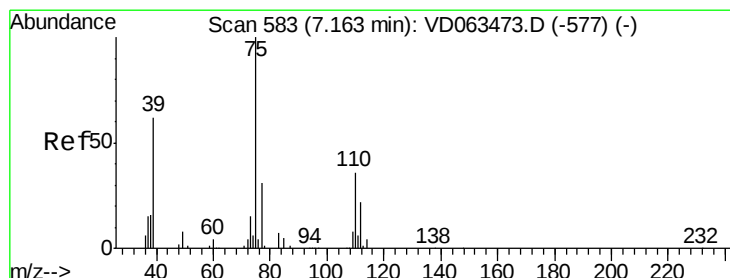
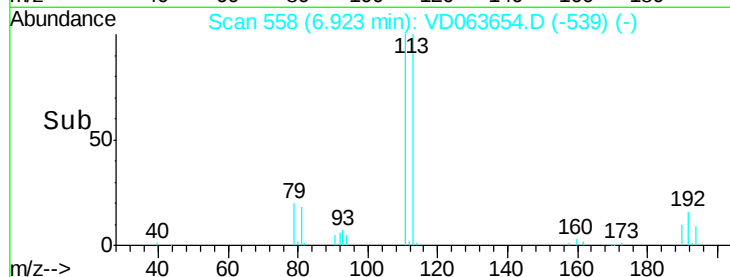
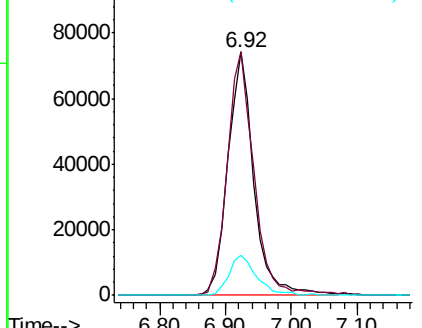
192 16.5 13.1 19.7



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: 5.980 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.12 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

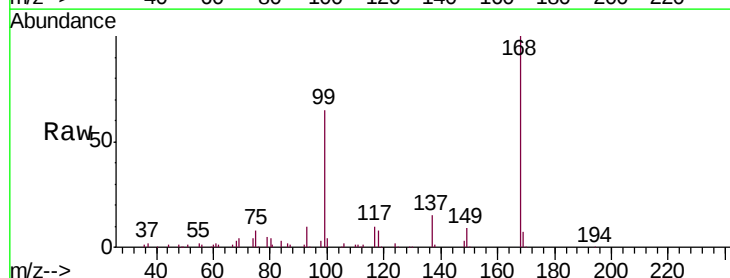
Tgt Ion: 75 Resp: 28290

Ion Ratio Lower Upper

75 100

110 9.2 17.6 52.8#

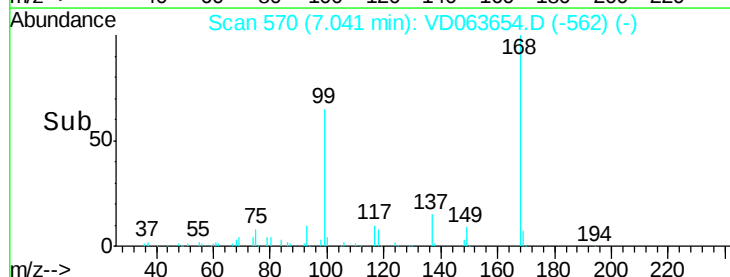
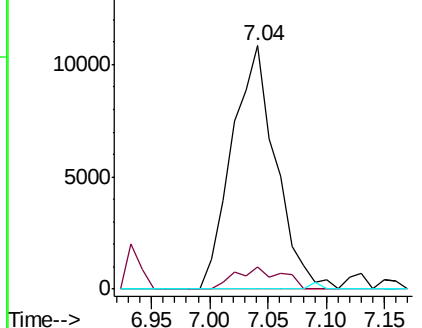
77 0.0 24.3 36.5#

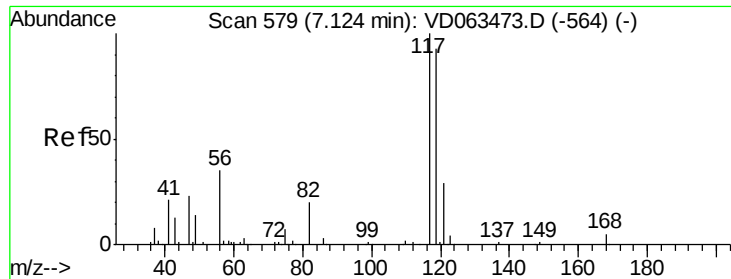


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

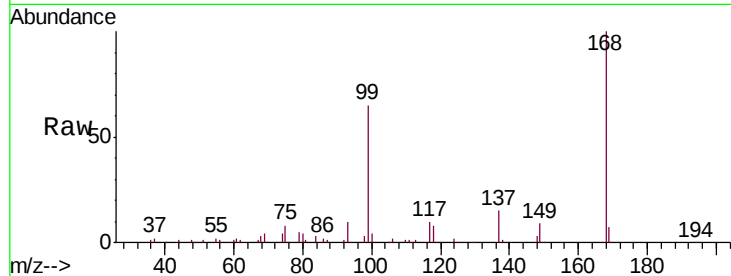




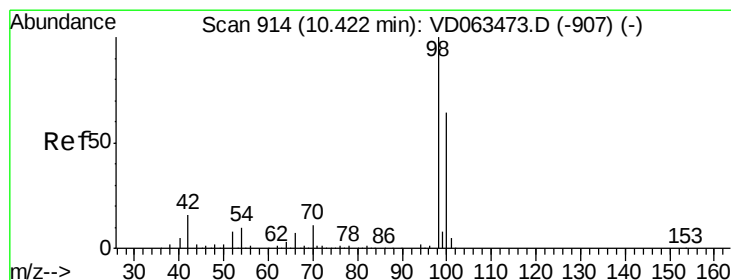
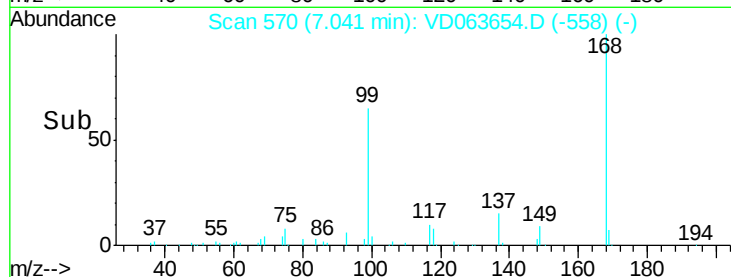
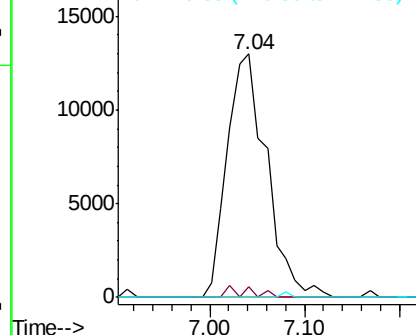
#38
Carbon Tetrachloride
Concen: 5.255 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

Instrument :
MSVOA_D
ClientSampleId :
TT-011-IDWSO-20190816

Tgt Ion:117 Resp: 37472
Ion Ratio Lower Upper
117 100
119 4.4 74.2 111.2#
121 0.0 23.1 34.7#

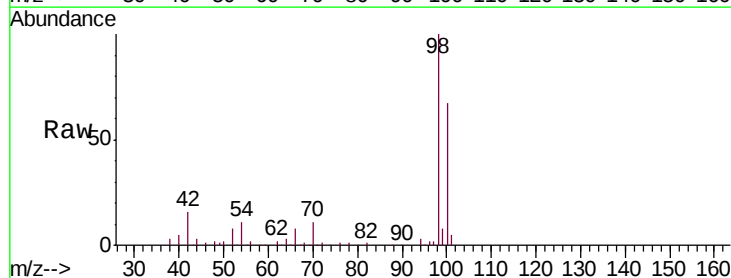


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

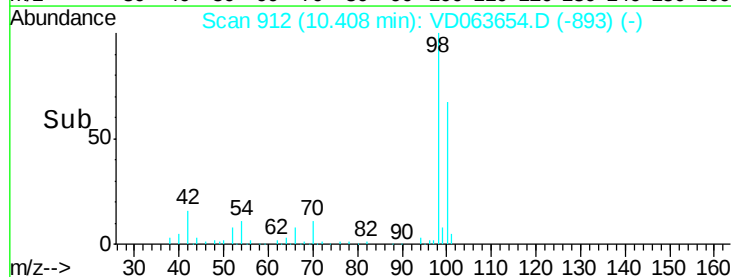
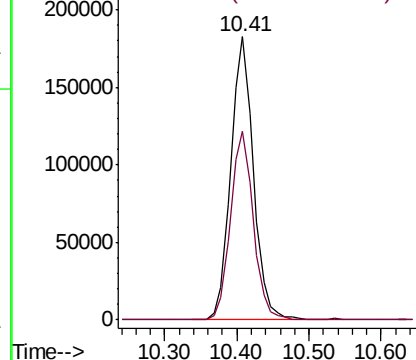


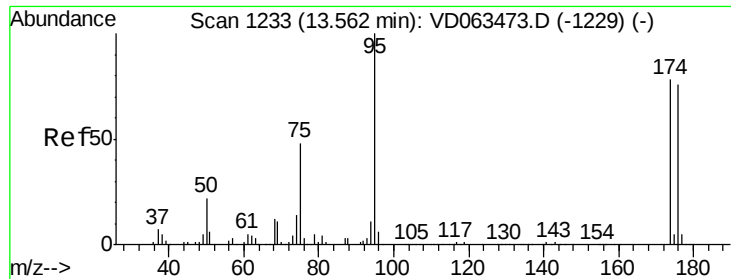
#50
Toluene-d8
Concen: 40.265 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063654.D
Acq: 19 Aug 2019 13:41

Tgt Ion: 98 Resp: 399004
Ion Ratio Lower Upper
98 100
100 66.8 51.7 77.5



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





#62

4-Bromofluorobenzene

Concen: 43.775 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

Instrument :

MSVOA_D

ClientSampleId :

TT-011-IDWSO-20190816

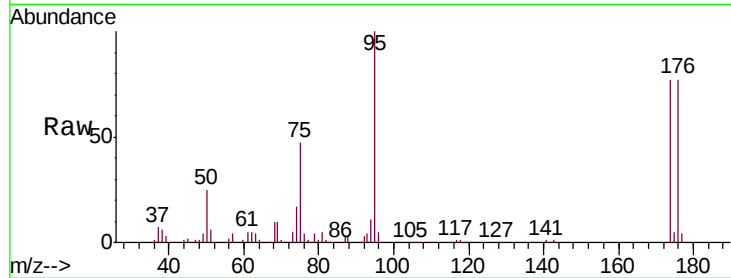
Tgt Ion: 95 Resp: 196610

Ion Ratio Lower Upper

95 100

174 77.4 0.0 155.4

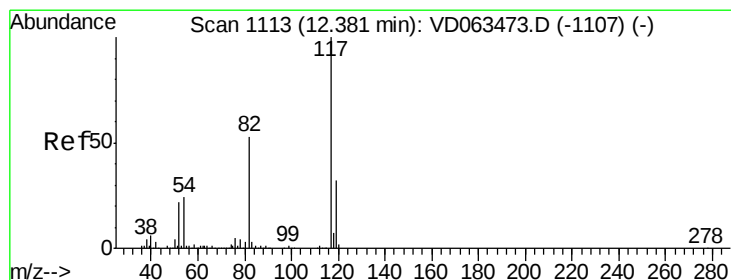
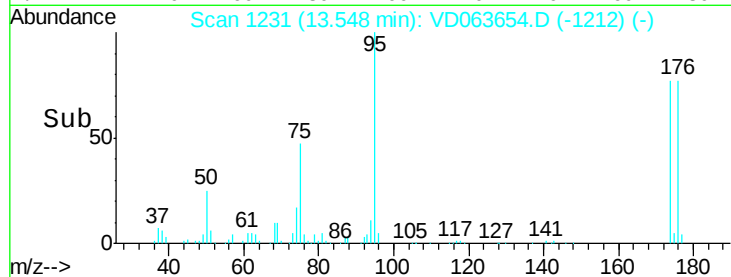
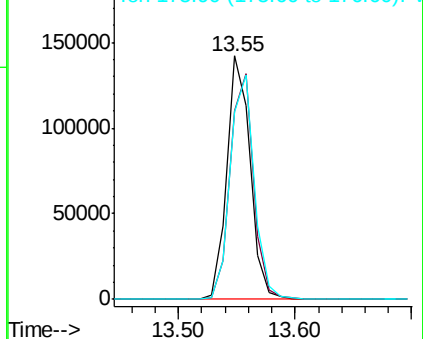
176 77.1 0.0 152.4



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: 12.37 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

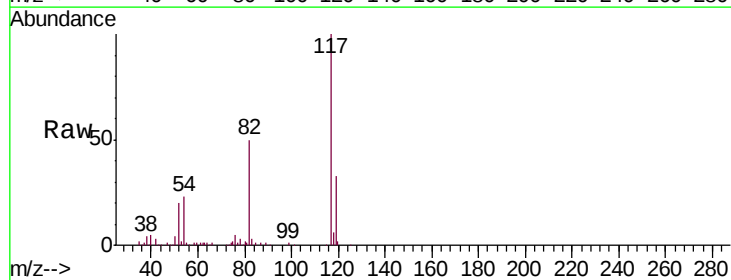
Tgt Ion: 117 Resp: 439310

Ion Ratio Lower Upper

117 100

82 49.8 42.0 63.0

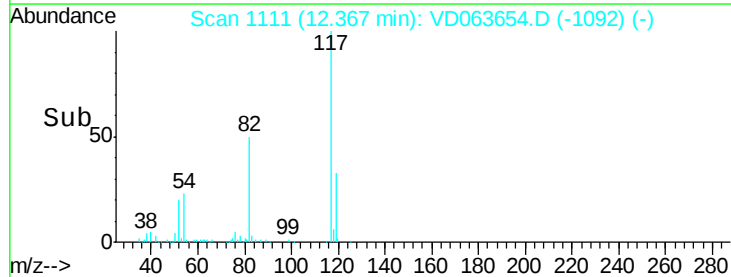
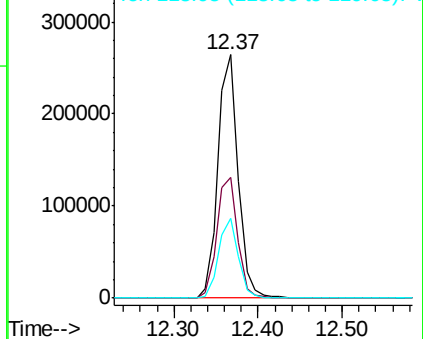
119 32.8 25.4 38.0

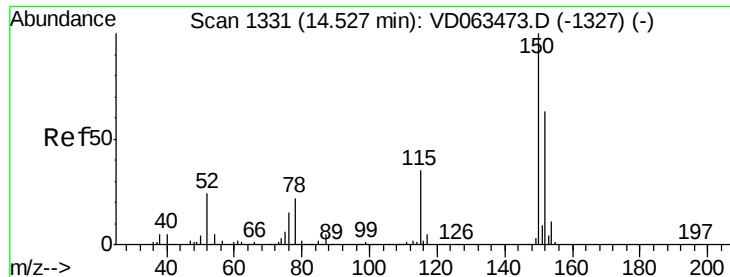


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.01 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

Instrument :

MSVOA_D

ClientSampleId :

TT-011-IDWSO-20190816

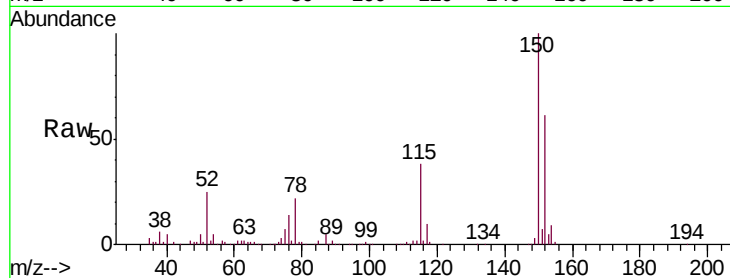
Tgt Ion:152 Resp: 232325

Ion Ratio Lower Upper

152 100

115 62.0 30.9 92.7

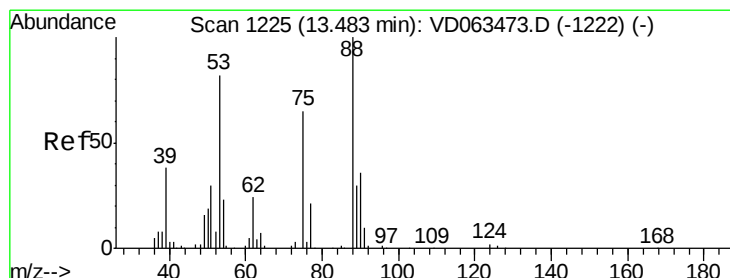
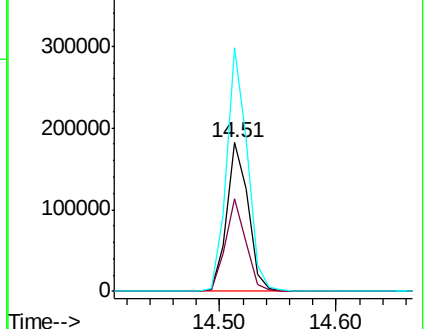
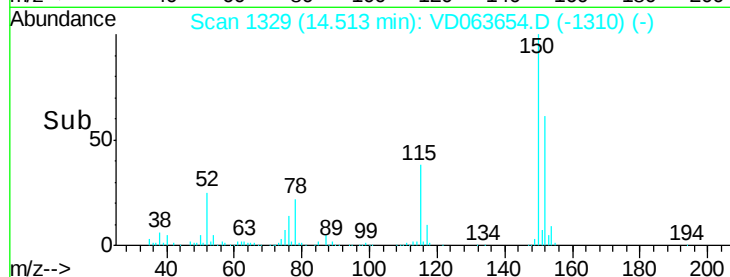
150 164.0 0.0 318.6



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: 123.480 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063654.D

Acq: 19 Aug 2019 13:41

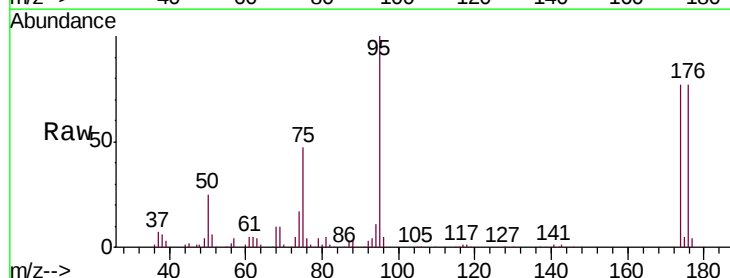
Tgt Ion: 75 Resp: 88490

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

