

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063162.D
 Acq On : 19 Jul 2019 19:08
 Operator : VA/AP
 Sample : K3618-05RE
 Misc : 6.20g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-071719RE

Quant Time: Jul 20 05:02:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	685662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	918008	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	620348	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	235098	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	411492	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
35) Dibromofluoromethane	6.92	113	435506	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	10.41	98	783945	39.91	ug/l	0.01
Spiked Amount			Recovery	=	79.82%	
62) 4-Bromofluorobenzene	13.55	95	267444	29.43	ug/l	0.00
Spiked Amount			Recovery	=	58.86%	

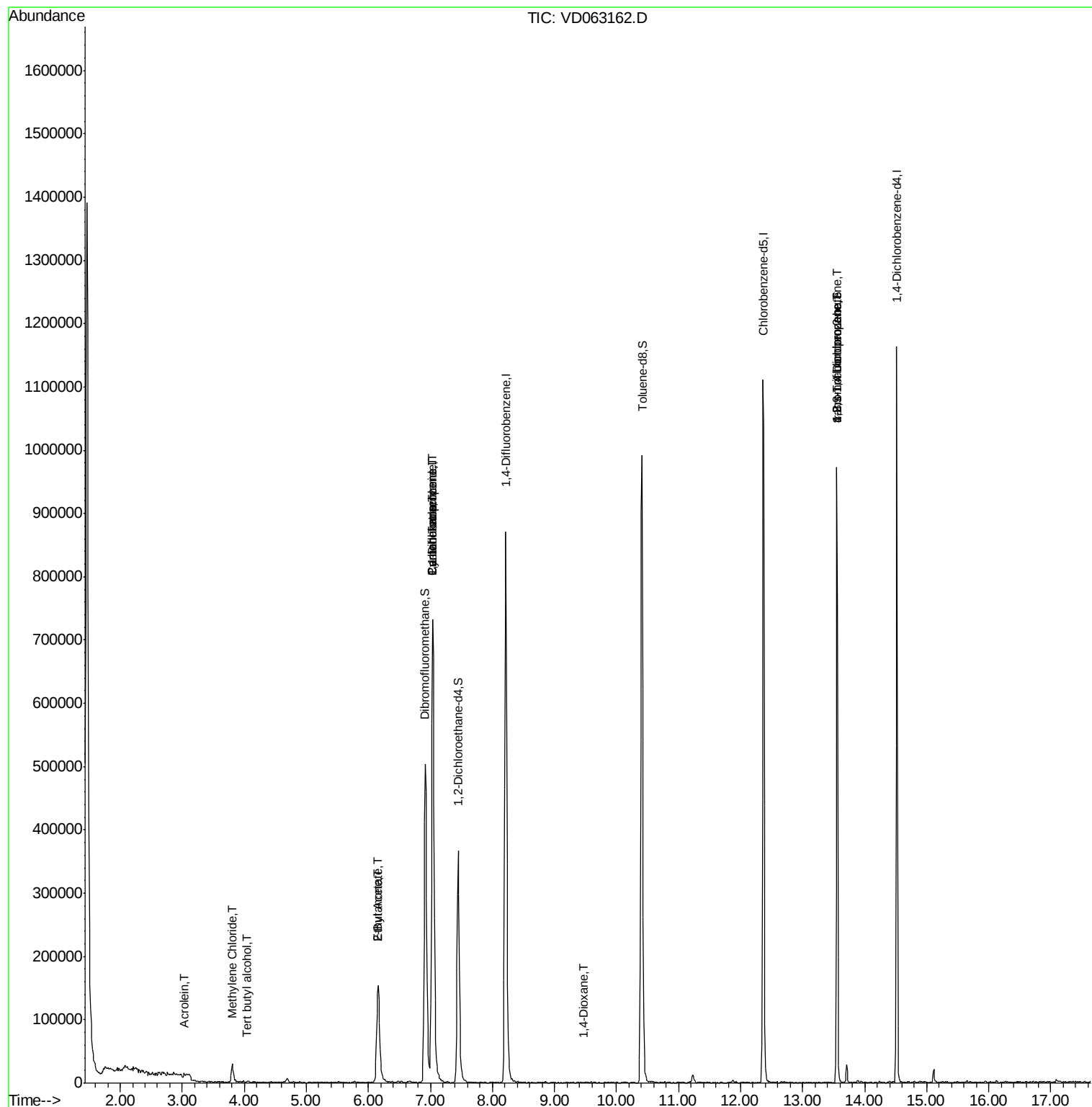
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	415	Below Cal	#	43
3) Chloromethane	1.77	50	218	Below Cal	#	48
5) Bromomethane	2.14	94	537	Below Cal	#	13
11) Tert butyl alcohol	4.04	59	909	1.844	ug/l #	77
13) Acrolein	3.02	56	250	1.680	ug/l	88
18) Methyl Acetate	3.64	43	559	Below Cal	#	63
20) Methylene Chloride	3.81	84	14088	1.808	ug/l	96
25) 2-Butanone	6.16	43	13125	6.663	ug/l #	61
31) Cyclohexane	7.03	56	15206	1.870	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	54236	5.253	ug/l #	47
37) Ethyl Acetate	6.16	43	13126	2.971	ug/l #	18
38) Carbon Tetrachloride	7.05	117	67842	4.324	ug/l #	10
49) 1,4-Dioxane	9.47	88	221	6.161	ug/l #	27
76) 1,2,3-Trichloropropane	13.55	75	99532	27.522	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	123308	129.477	ug/l #	1

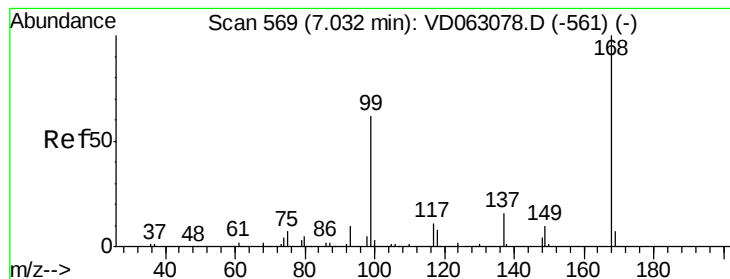
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 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: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

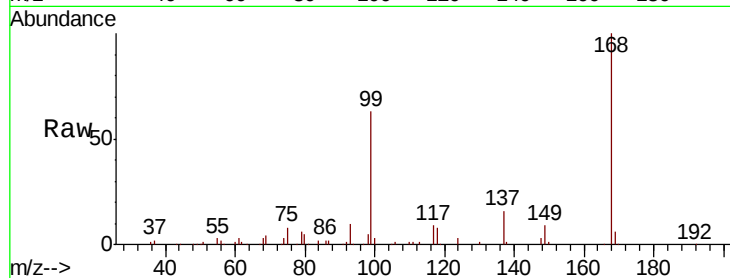
HD-01-071719RE

Tot Ion:168 Resp: 685662

Ion Ratio Lower Upper

168 100

99 62.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

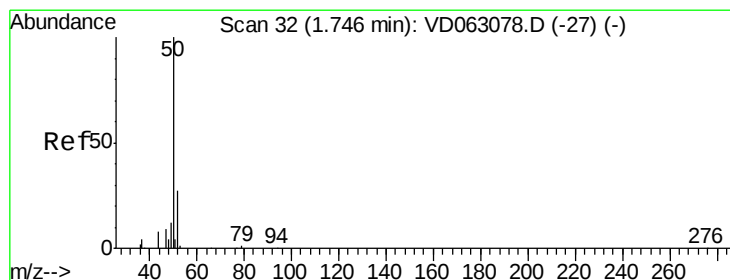
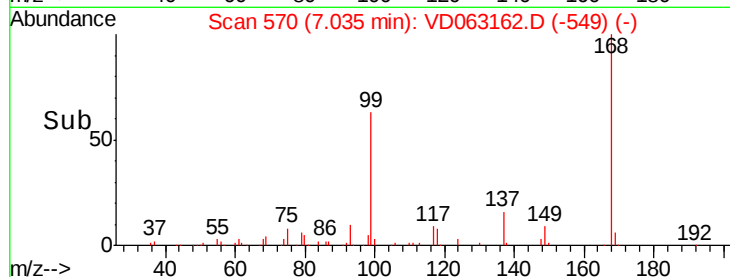
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.77 min Scan# 35

Delta R.T. 0.02 min

Lab File: VD063162.D

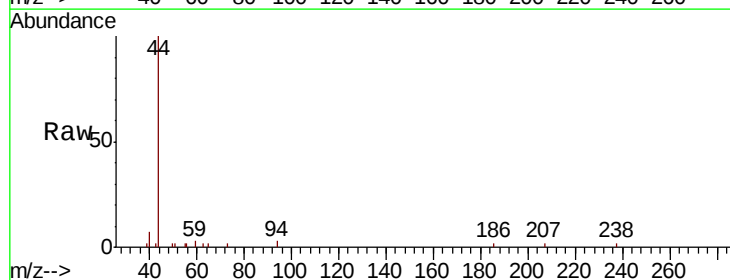
Acq: 19 Jul 2019 19:08

Tgt Ion: 50 Resp: 218

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

600

500

400

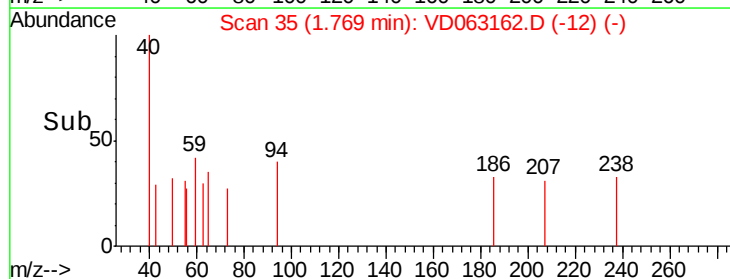
300

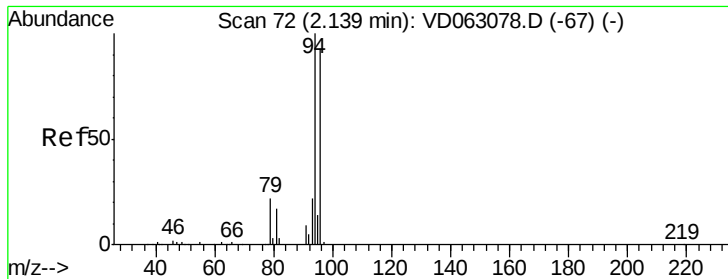
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

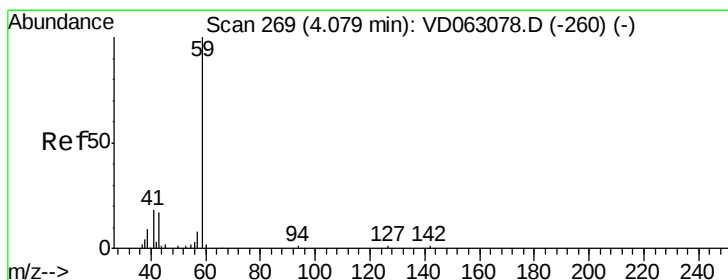
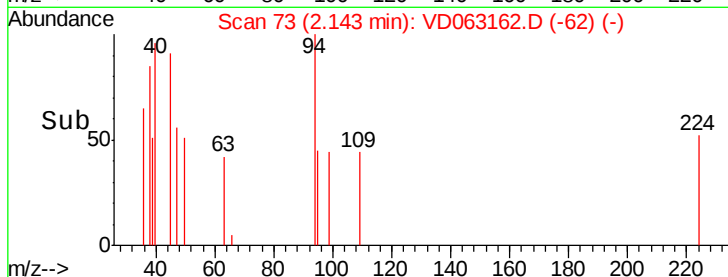
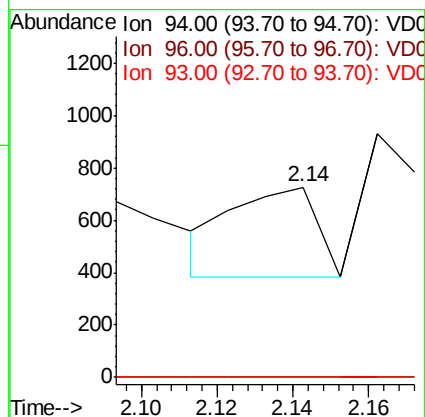
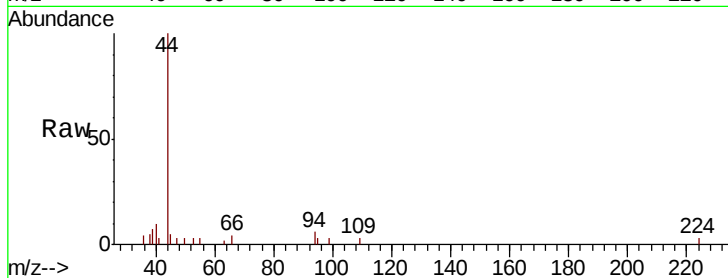
Tot Ion: 94 Resp: 537

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 1.844 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.04 min

Lab File: VD063162.D

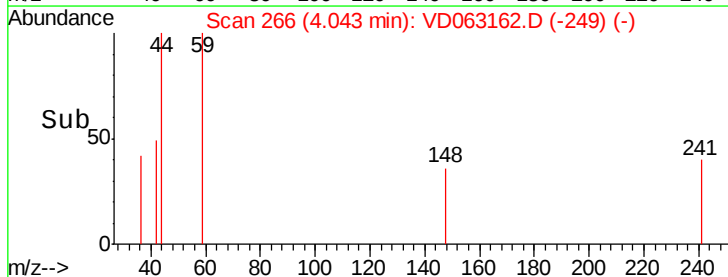
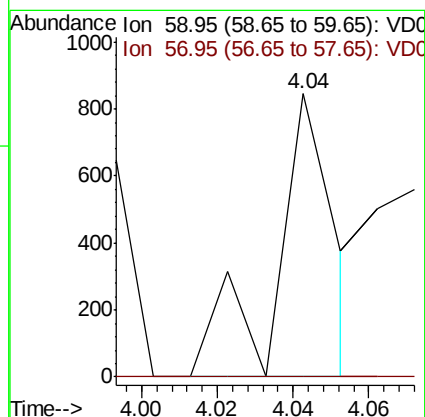
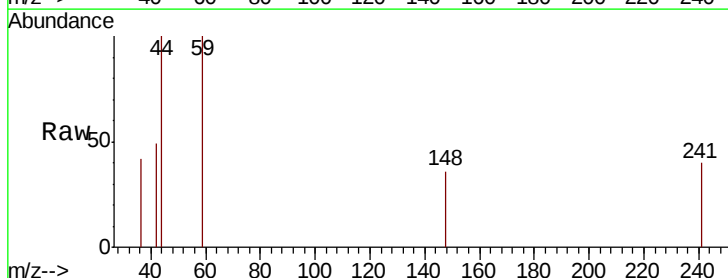
Acq: 19 Jul 2019 19:08

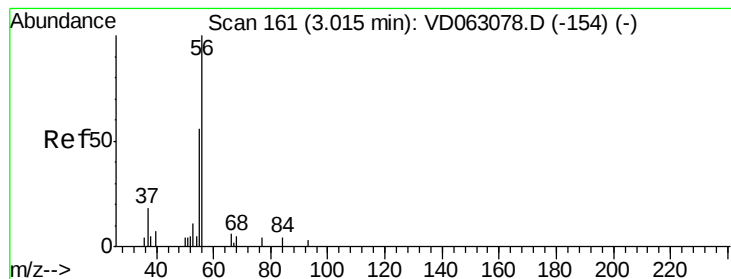
Tgt Ion: 59 Resp: 909

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.680 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

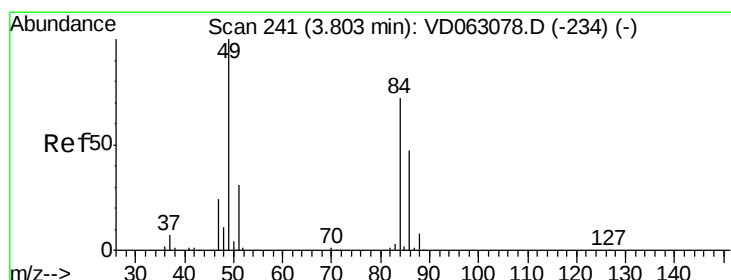
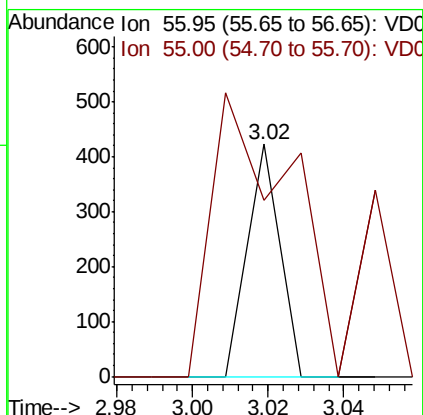
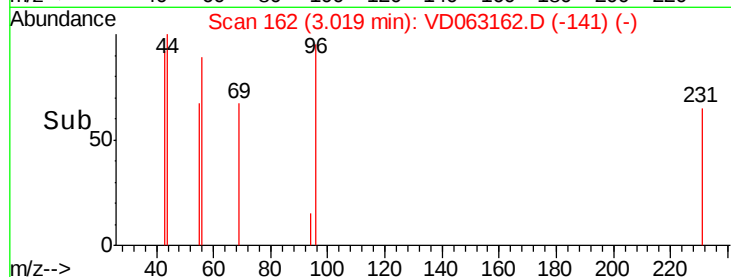
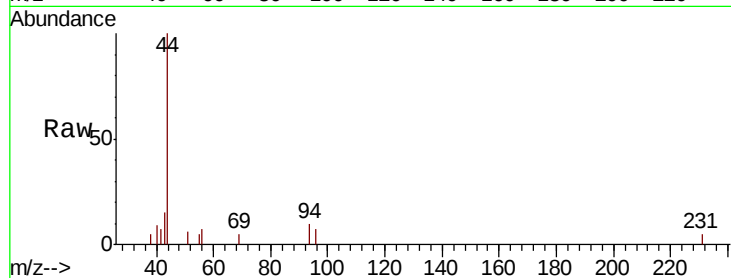
HD-01-071719RE

Tot Ion: 56 Resp: 250

Ion Ratio Lower Upper

56 100

55 75.7 53.0 79.4



#20

Methylene Chloride

Concen: 1.808 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Tgt Ion: 84 Resp: 14088

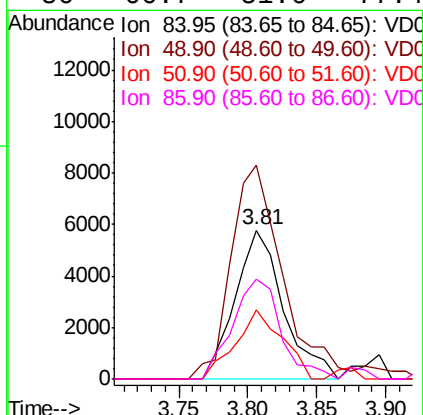
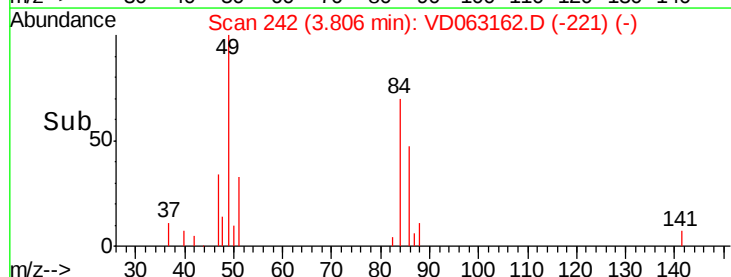
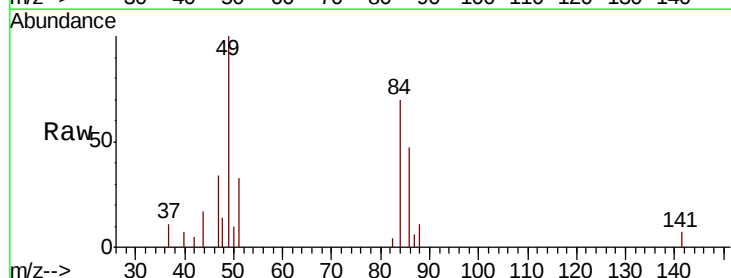
Ion Ratio Lower Upper

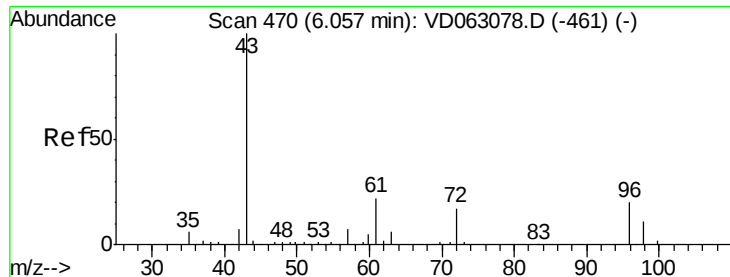
84 100

49 143.2 110.5 165.7

51 46.7 34.6 51.8

86 66.7 51.6 77.4





#25

2-Butanone

Concen: 6.663 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.10 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

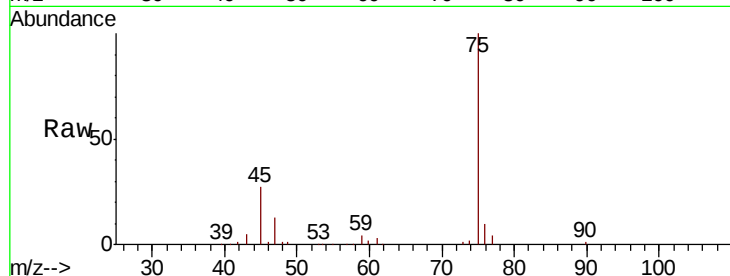
HD-01-071719RE

Tot Ion: 43 Resp: 13125

Ion Ratio Lower Upper

43 100

72 0.0 13.4 20.0#

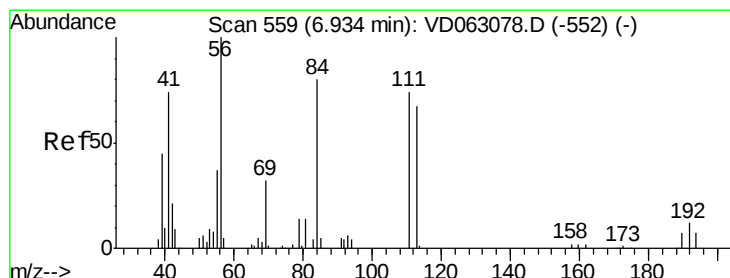
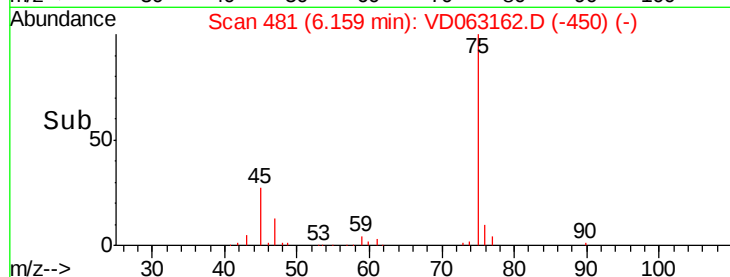


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.16

Time-->



#31

Cyclohexane

Concen: 1.870 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.09 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

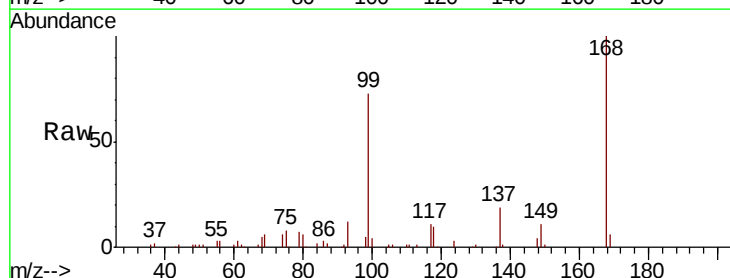
Tgt Ion: 56 Resp: 15206

Ion Ratio Lower Upper

56 100

69 186.2 25.3 37.9#

84 50.9 64.2 96.4#



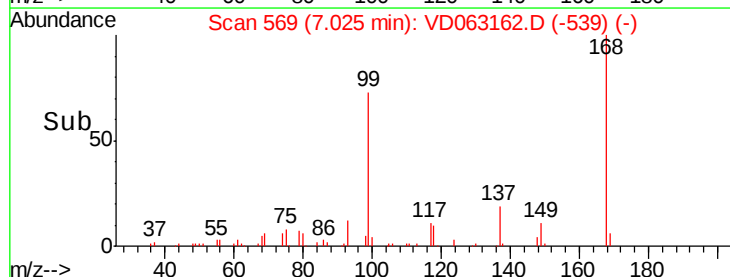
Abundance Ion 55.95 (55.65 to 56.65): VDC

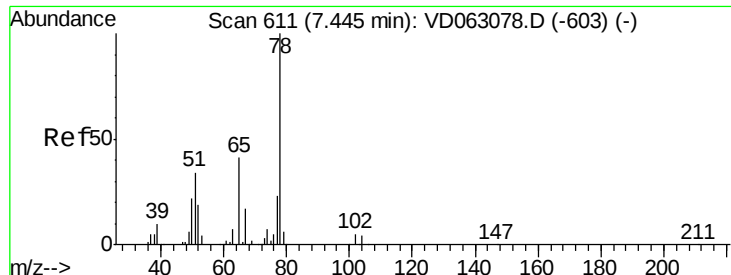
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

7.03

Time-->

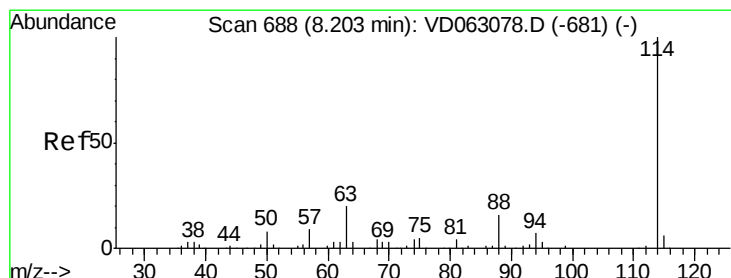
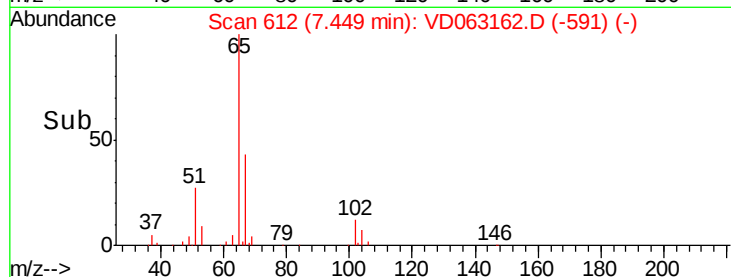
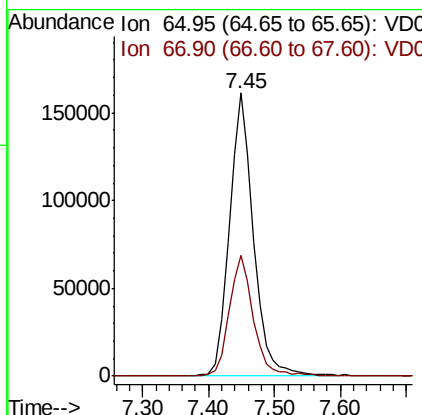
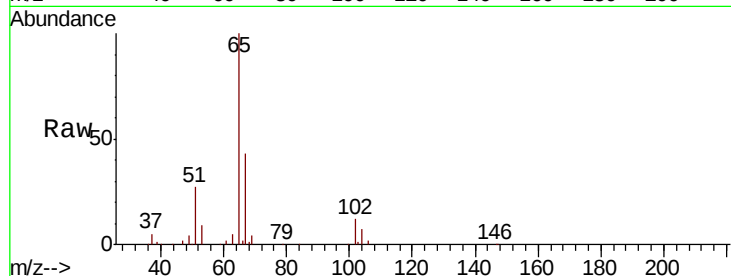




#33
 1,2-Dichloroethane-d4
 Concen: 48.177 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD063162.D
 Acq: 19 Jul 2019 19:08

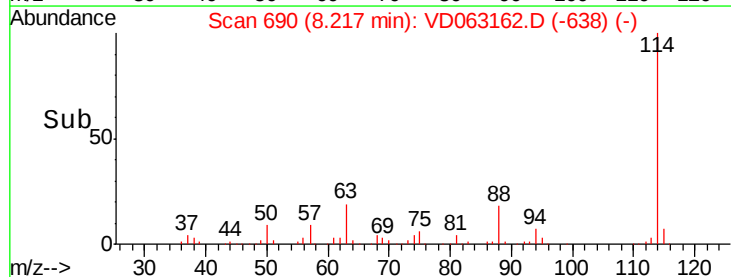
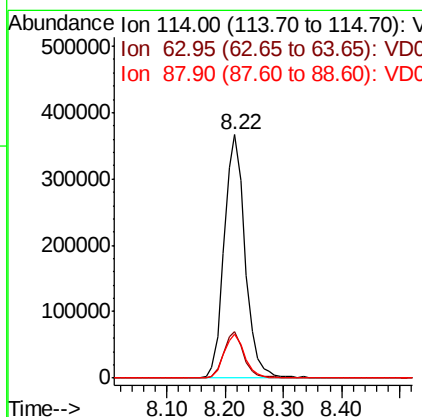
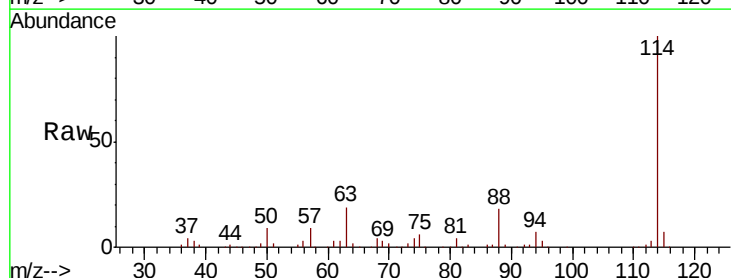
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-071719RE

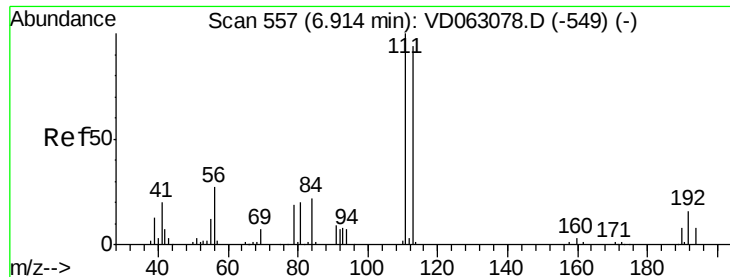
Tot Ion: 65 Resp: 411492
 Ion Ratio Lower Upper
 65 100
 67 42.9 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063162.D
 Acq: 19 Jul 2019 19:08

Tgt Ion: 114 Resp: 918008
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 40.6
 88 17.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.630 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

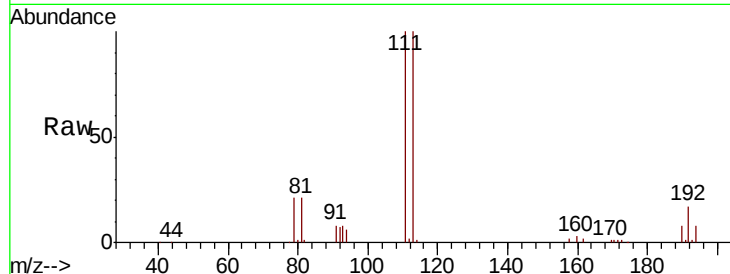
Tot Ion:113 Resp: 435506

Ion Ratio Lower Upper

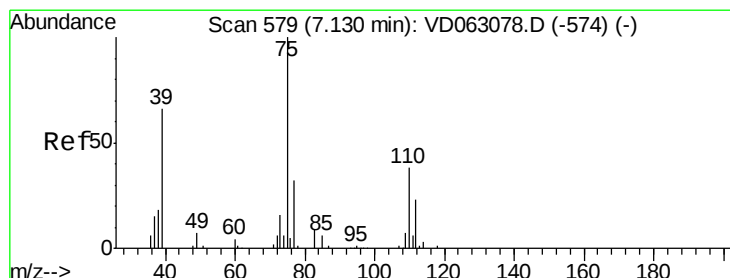
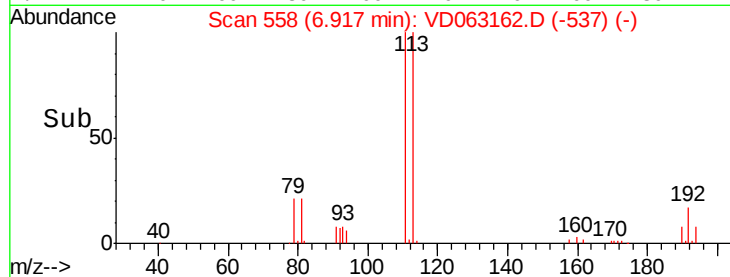
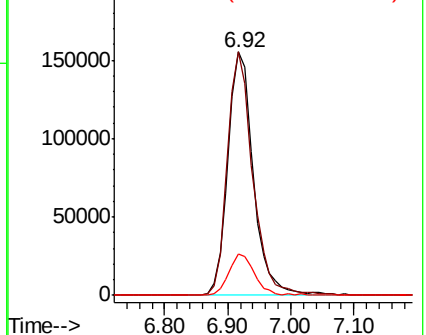
113 100

111 99.9 84.8 127.2

192 17.1 13.4 20.0



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: 5.253 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

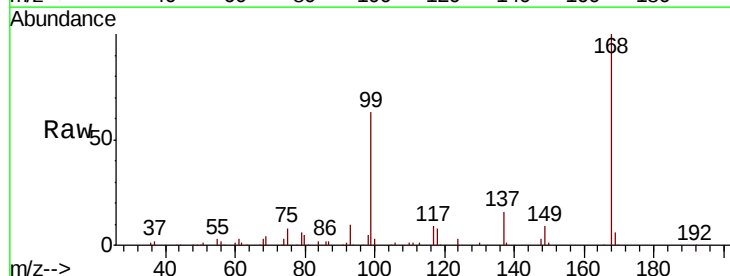
Tgt Ion: 75 Resp: 54236

Ion Ratio Lower Upper

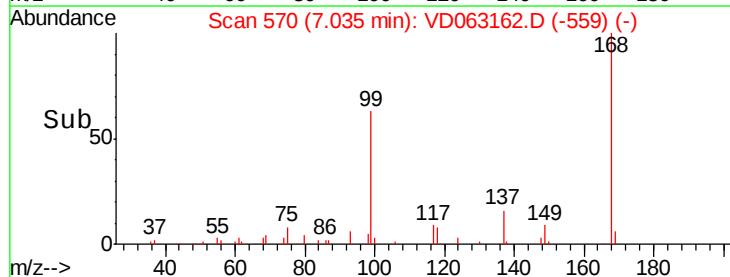
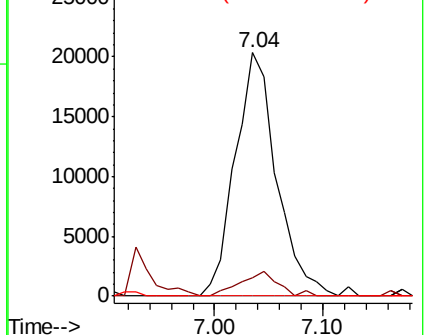
75 100

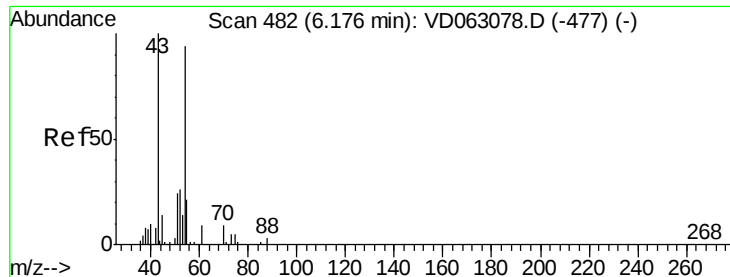
110 7.8 18.9 56.5#

77 0.0 25.2 37.8#



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: 2.971 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.02 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

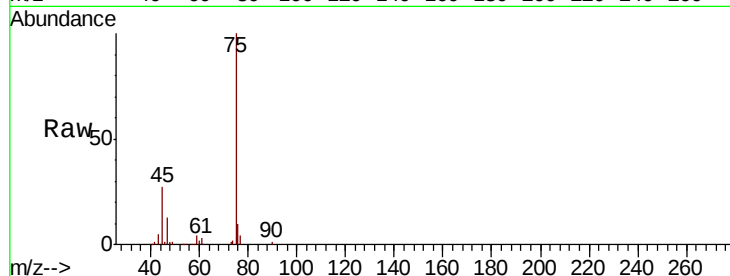
Tot Ion: 43 Resp: 13126

Ion Ratio Lower Upper

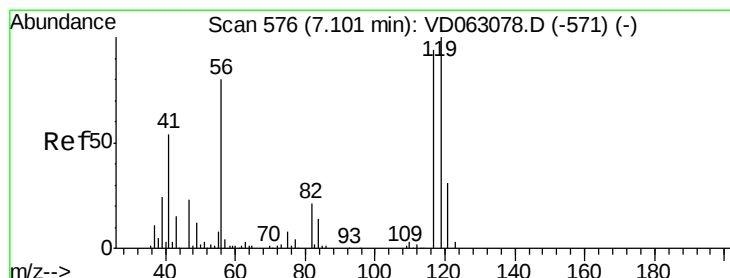
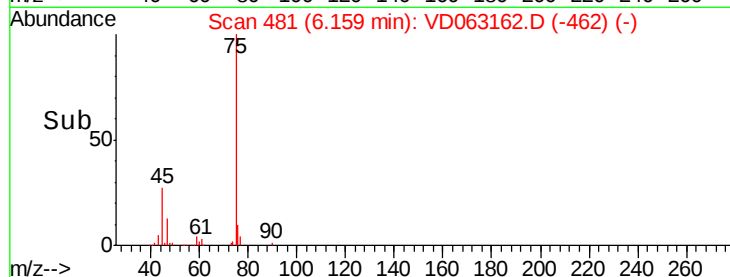
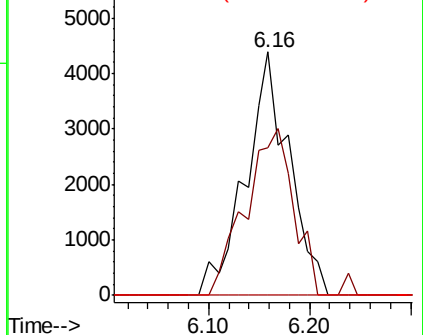
43 100

61 60.7 10.6 16.0#

70 0.0 6.6 9.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.324 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

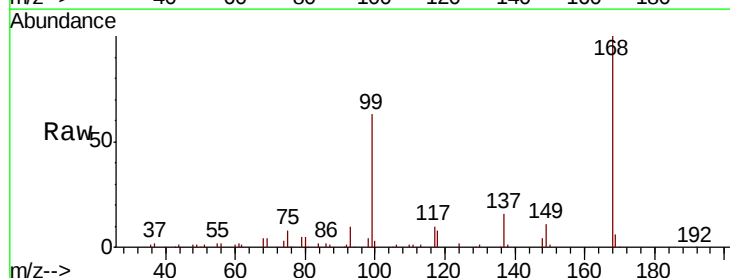
Tgt Ion: 117 Resp: 67842

Ion Ratio Lower Upper

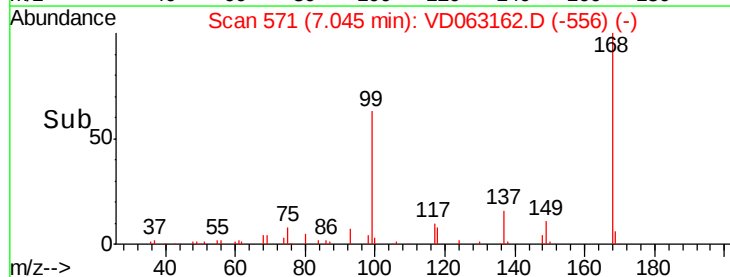
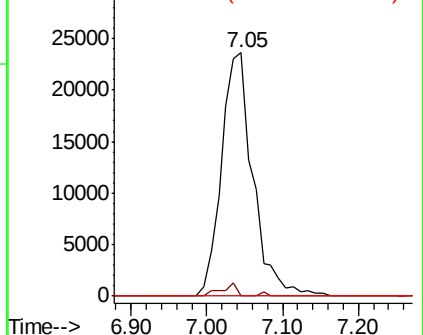
117 100

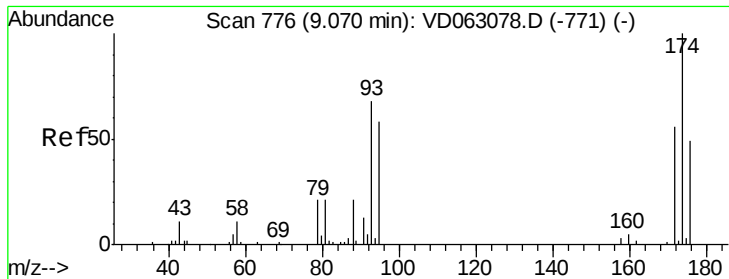
119 0.0 80.0 120.0#

121 0.0 25.0 37.4#



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

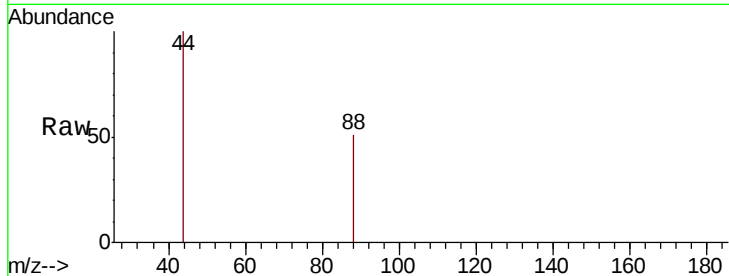




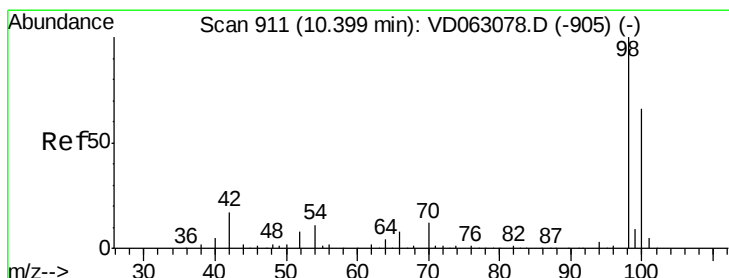
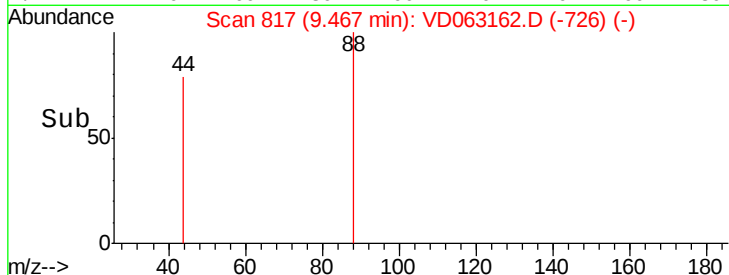
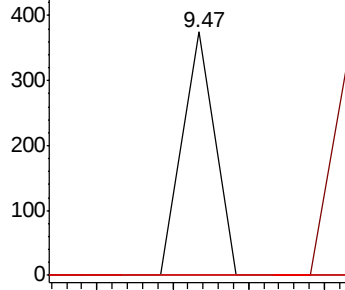
#49
1,4-Dioxane
Concen: 6.161 ug/l
RT: 9.47 min Scan# 817
Delta R.T. 0.40 min
Lab File: VD063162.D
Acq: 19 Jul 2019 19:08

Instrument :
MSVOA_D
ClientSampleId :
HD-01-071719RE

Tot Ion: 88 Resp: 221
Ion Ratio Lower Upper
88 100
43 0.0 40.2 60.4#
58 0.0 41.6 62.4#

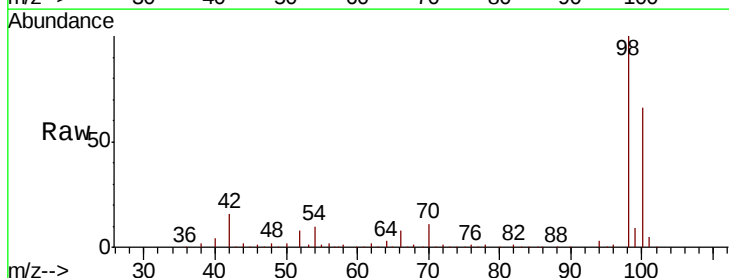


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

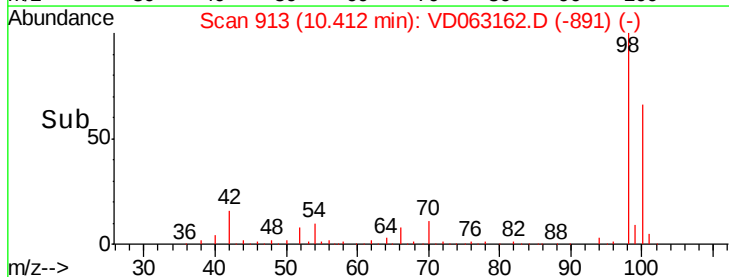
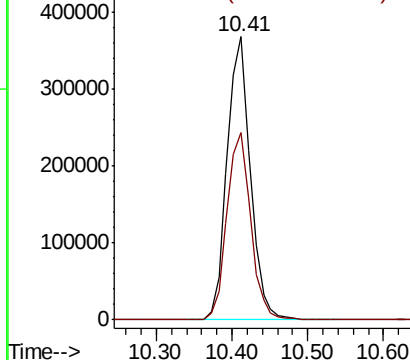


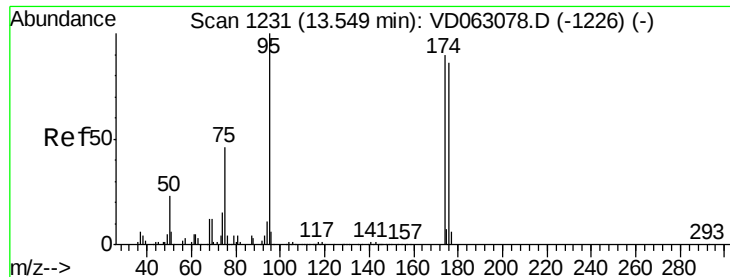
#50
Toluene-d8
Concen: 39.915 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063162.D
Acq: 19 Jul 2019 19:08

Tgt Ion: 98 Resp: 783945
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3



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





#62

4-Bromofluorobenzene

Concen: 29.434 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

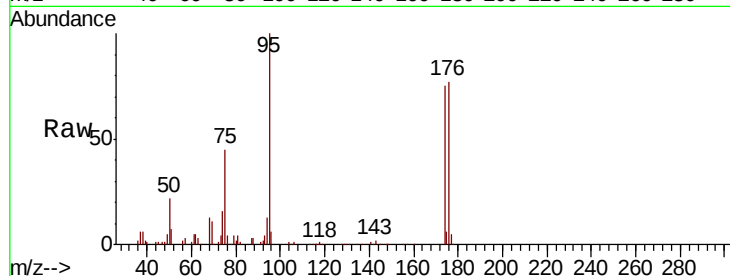
Tot Ion: 95 Resp: 267444

Ion Ratio Lower Upper

95 100

174 75.3 0.0 180.6

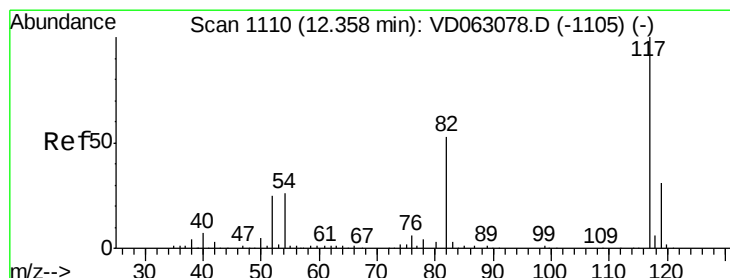
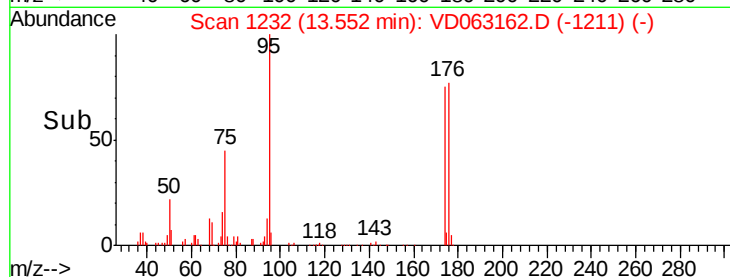
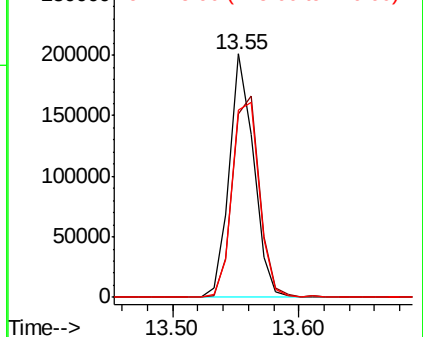
176 76.8 0.0 172.2



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# 1112

Delta R.T. 0.01 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

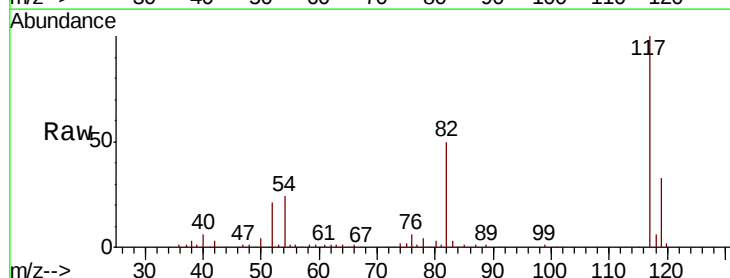
Tgt Ion: 117 Resp: 620348

Ion Ratio Lower Upper

117 100

82 49.9 42.3 63.5

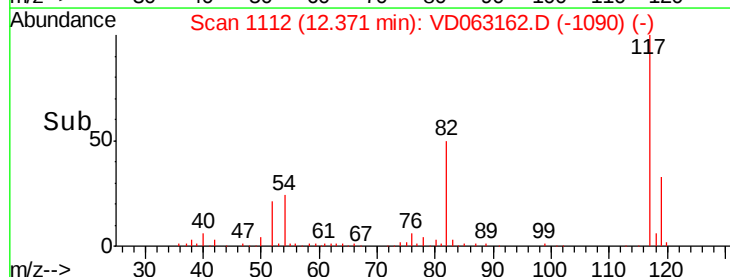
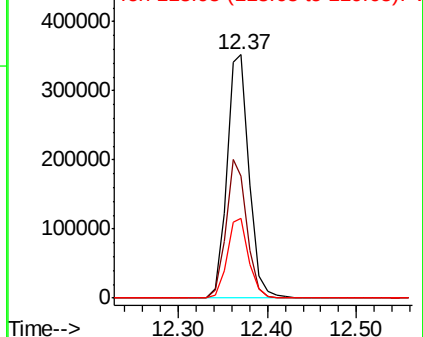
119 32.6 25.2 37.8

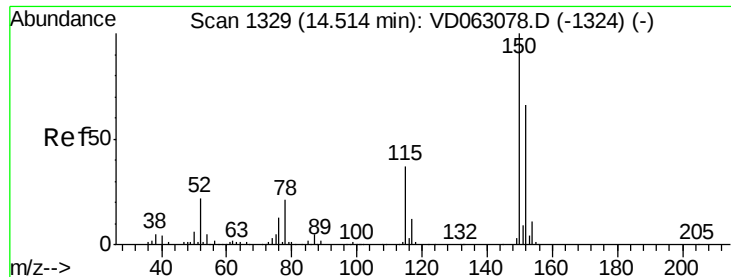


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

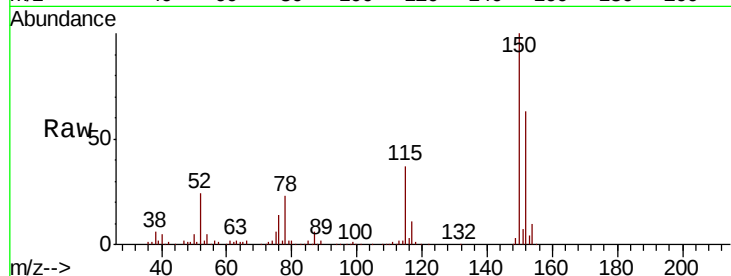
Tot Ion:152 Resp: 235098

Ion Ratio Lower Upper

152 100

115 58.9 28.9 86.8

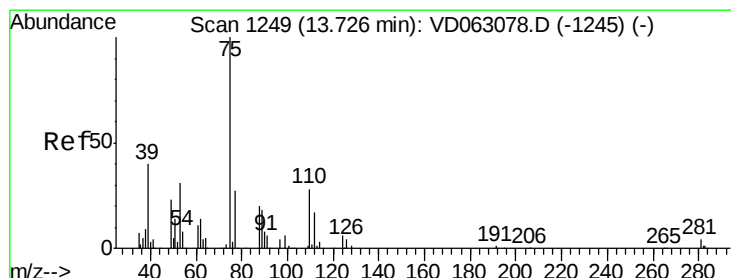
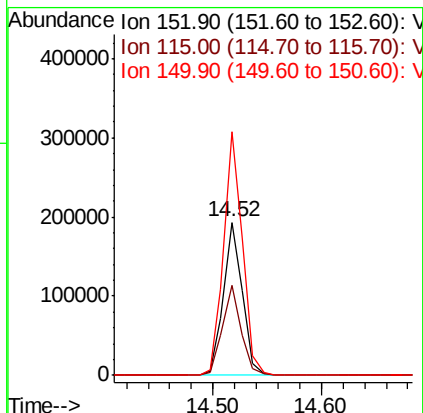
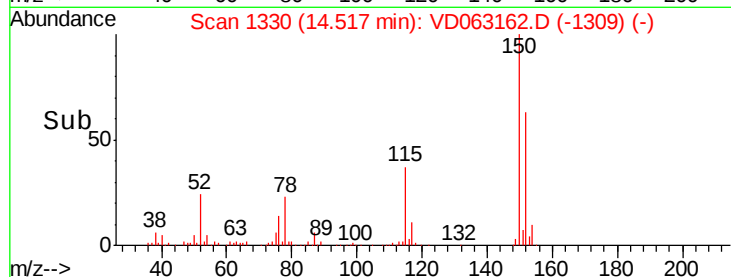
150 159.4 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.522 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063162.D

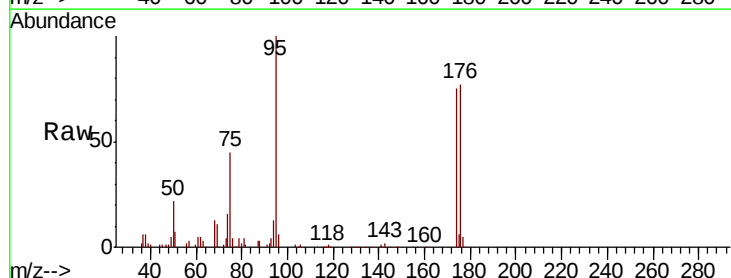
Acq: 19 Jul 2019 19:08

Tgt Ion: 75 Resp: 99532

Ion Ratio Lower Upper

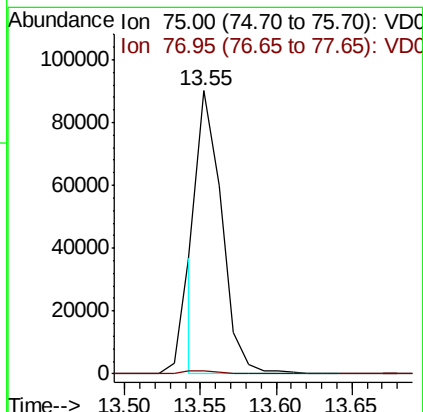
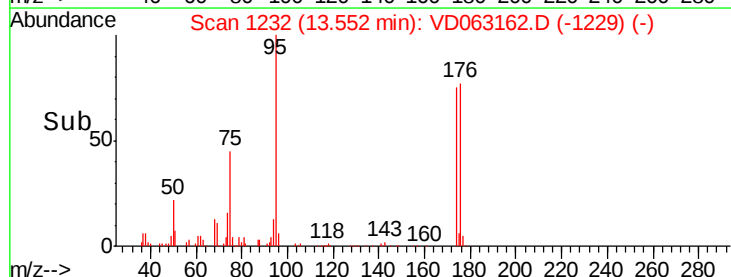
75 100

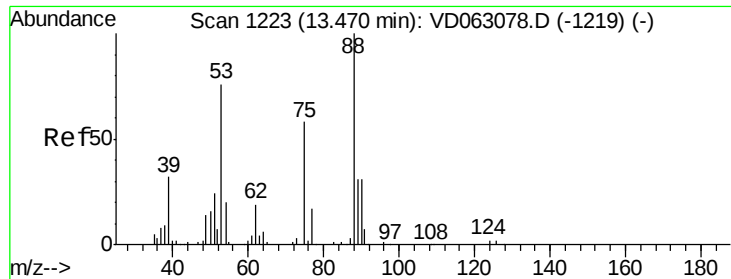
77 1.3 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 129.477 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719RE

Tot Ion: 75 Resp: 123308

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

