

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063177.D
 Acq On : 22 Jul 2019 15:19
 Operator : VA/AP
 Sample : K3868-09
 Misc : 4.75µl/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-3

Quant Time: Jul 23 07:49:47 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

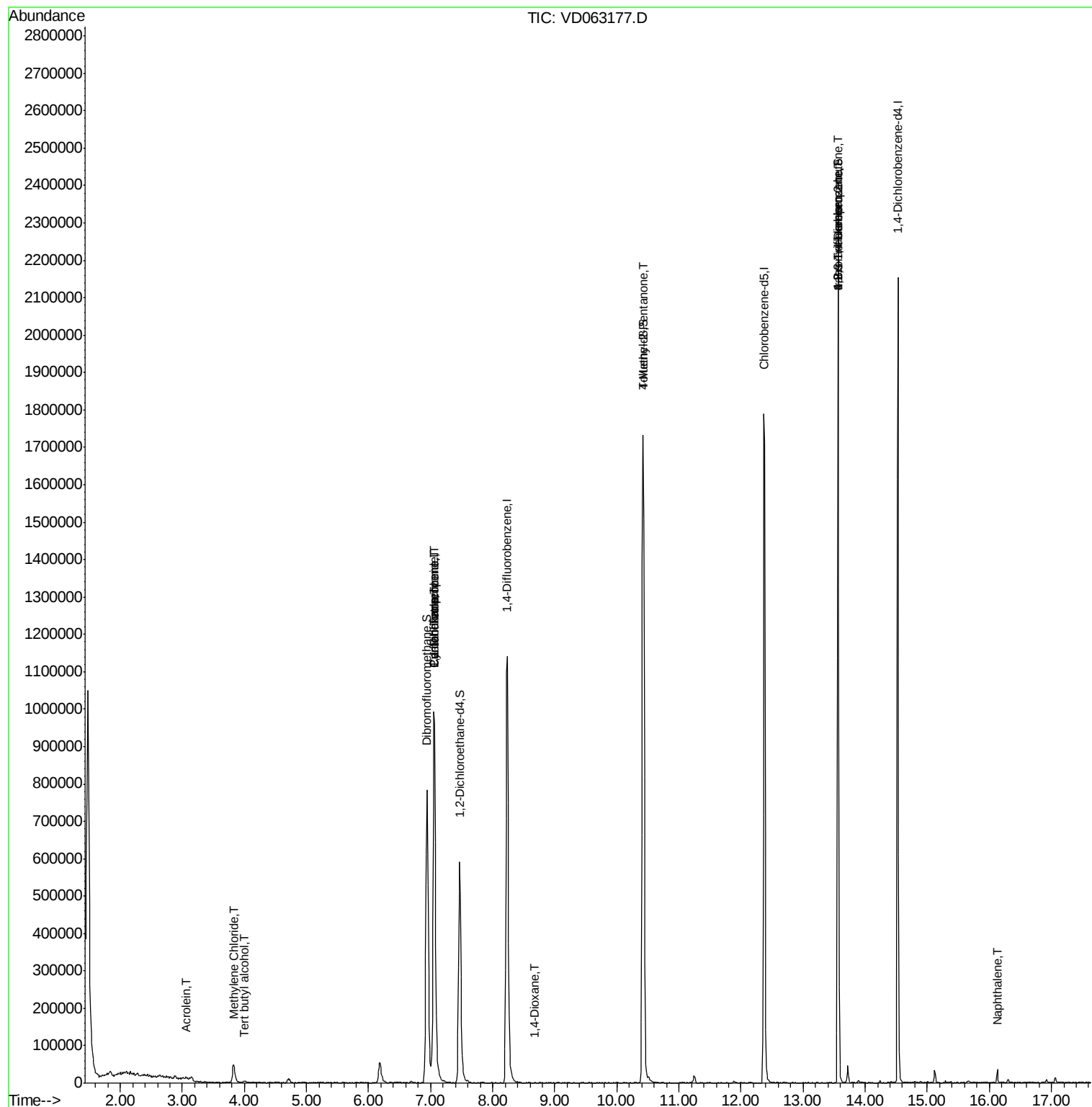
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	947067	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	1239199	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	1005524	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	463025	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	689478	58.44	ug/l	0.02
Spiked Amount 50.000			Recovery	=	116.88%	
35) Dibromofluoromethane	6.94	113	707072	57.29	ug/l	0.02
Spiked Amount 50.000			Recovery	=	114.58%	
50) Toluene-d8	10.42	98	1463298	55.19	ug/l	0.02
Spiked Amount 50.000			Recovery	=	110.38%	
62) 4-Bromofluorobenzene	13.56	95	612029	49.90	ug/l	0.01
Spiked Amount 50.000			Recovery	=	99.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.58	85	478	Below Cal	#	43
3) Chloromethane	1.76	50	332	Below Cal	#	48
5) Bromomethane	2.13	94	2644	Below Cal	#	13
11) Tert butyl alcohol	4.00	59	3610	5.302	ug/l #	77
13) Acrolein	3.07	56	232	1.129	ug/l #	17
18) Methyl Acetate	3.60	43	279	Below Cal	#	63
20) Methylene Chloride	3.83	84	27120	2.519	ug/l	93
31) Cyclohexane	7.06	56	21128	1.881	ug/l #	2
36) 1,1-Dichloropropene	7.06	75	75569	5.422	ug/l #	48
38) Carbon Tetrachloride	7.06	117	89256	4.215	ug/l #	15
49) 1,4-Dioxane	8.66	88	217	4.482	ug/l #	32
51) 4-Methyl-2-Pentanone	10.41	43	8246	1.454	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	281003	39.452	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.56	75	290407	154.829	ug/l #	1
95) Naphthalene	16.13	128	19279	1.088	ug/l #	95

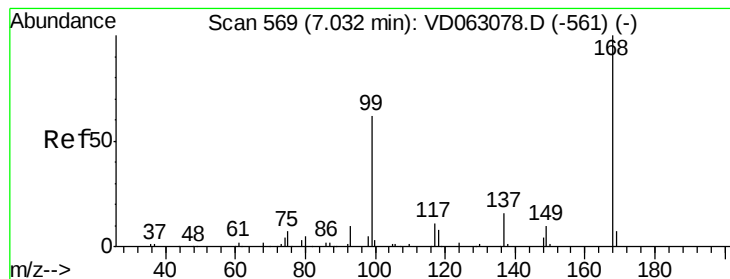
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.03 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

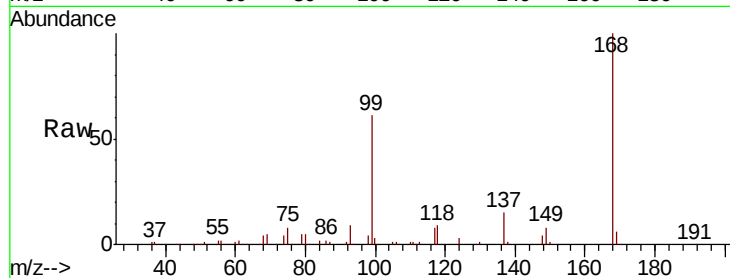
TP-3

Tot Ion:168 Resp: 947067

Ion Ratio Lower Upper

168 100

99 60.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

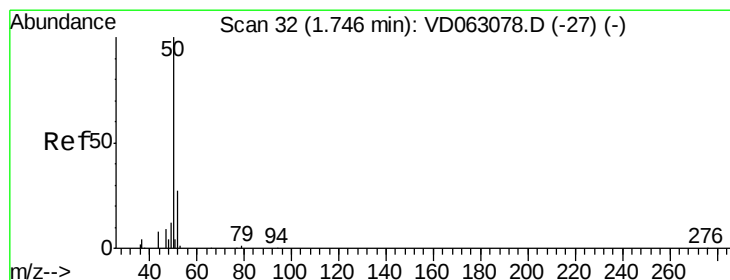
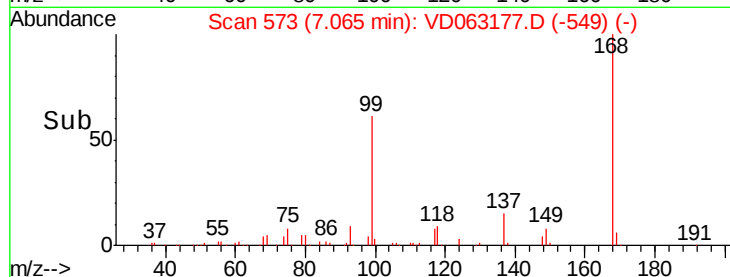
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD063177.D

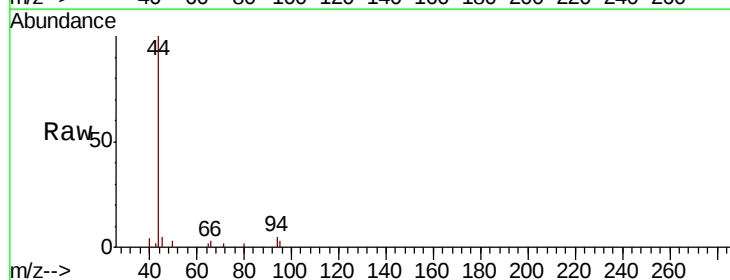
Acq: 22 Jul 2019 15:19

Tgt Ion: 50 Resp: 332

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

1.76

600

500

400

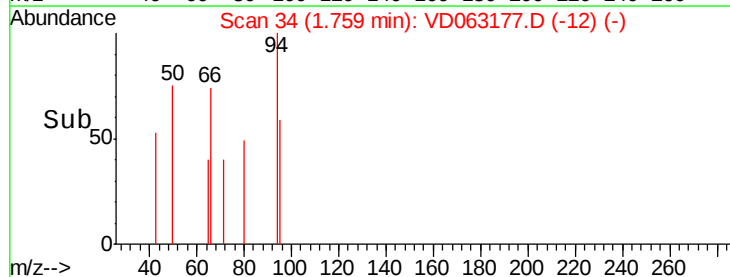
300

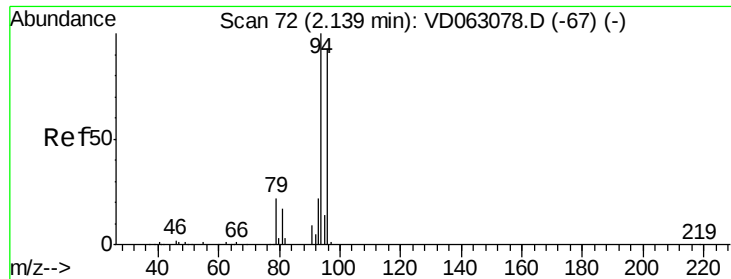
200

100

0

Time--> 1.72 1.74 1.76 1.78





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

TP-3

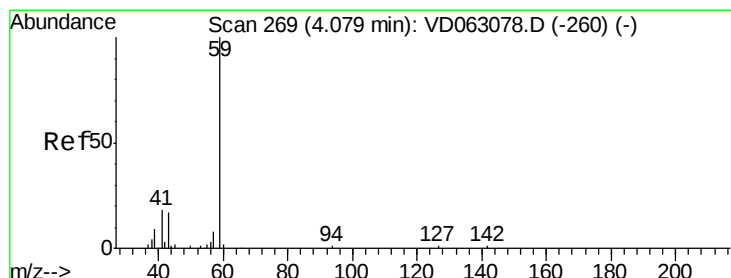
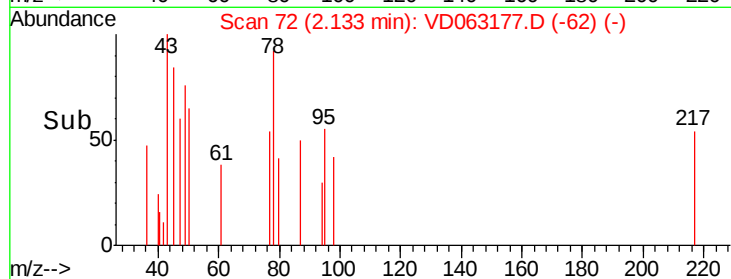
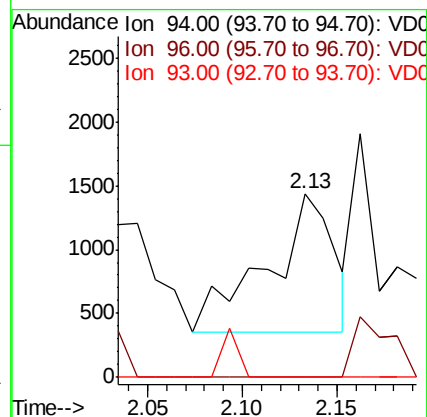
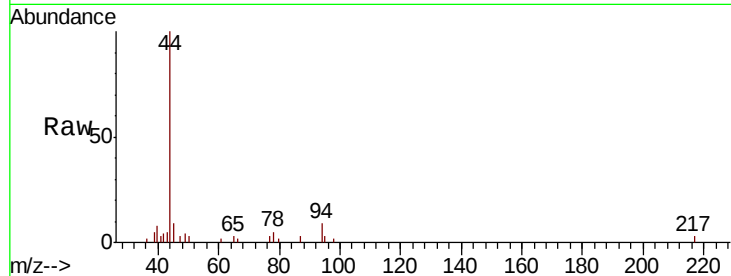
Tot Ion: 94 Resp: 2644

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: 5.302 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.08 min

Lab File: VD063177.D

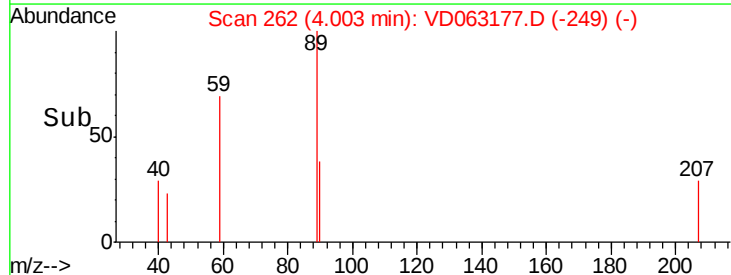
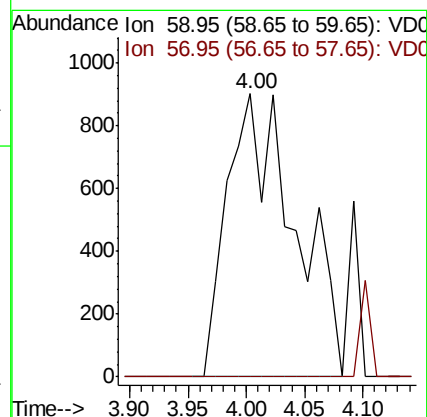
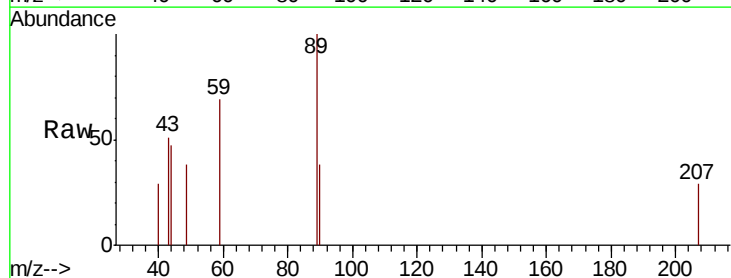
Acq: 22 Jul 2019 15:19

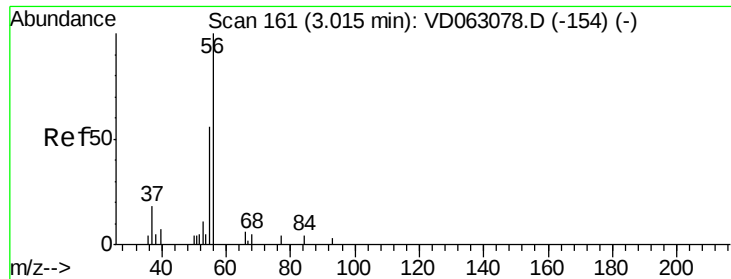
Tgt Ion: 59 Resp: 3610

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.129 ug/l

RT: 3.07 min Scan# 167

Delta R.T. 0.05 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

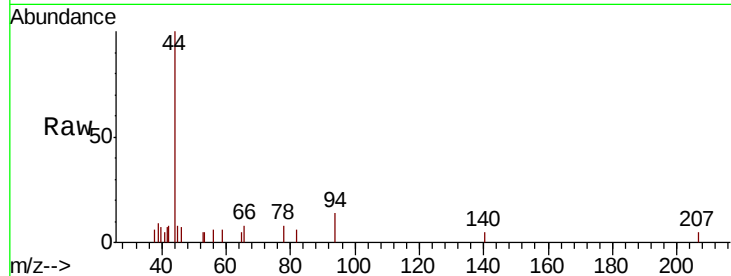
TP-3

Tot Ion: 56 Resp: 232

Ion Ratio Lower Upper

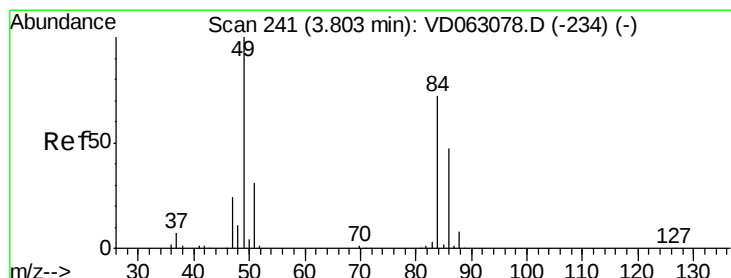
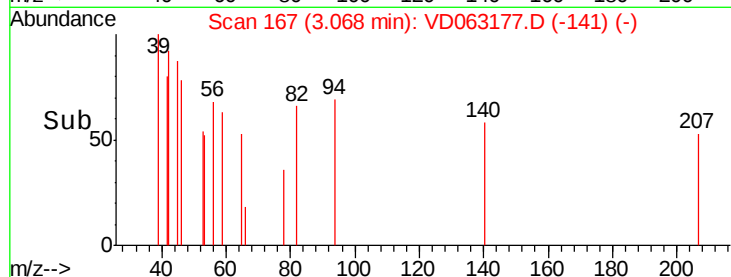
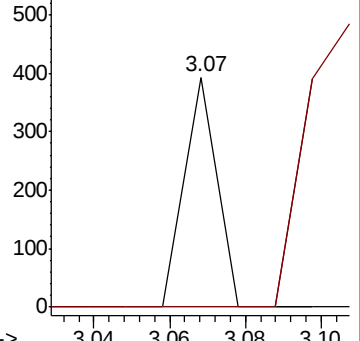
56 100

55 0.0 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#20

Methylene Chloride

Concen: 2.519 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Tgt Ion: 84 Resp: 27120

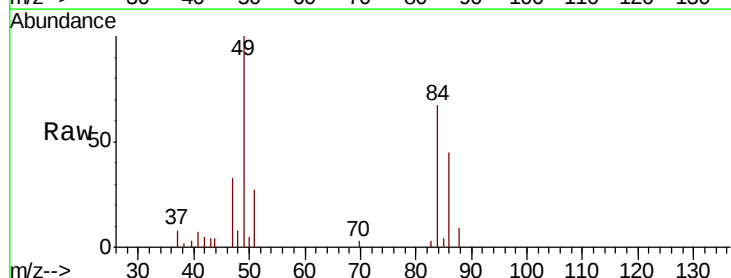
Ion Ratio Lower Upper

84 100

49 149.6 110.5 165.7

51 40.7 34.6 51.8

86 67.0 51.6 77.4

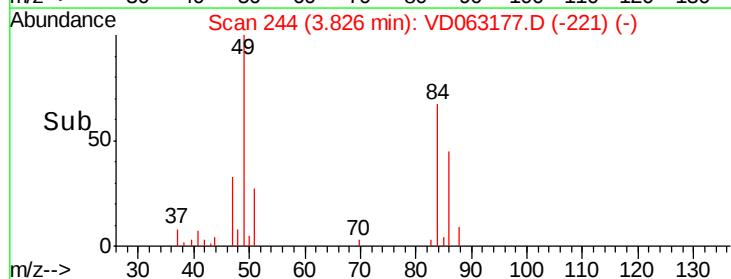
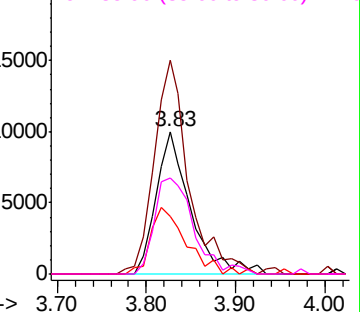


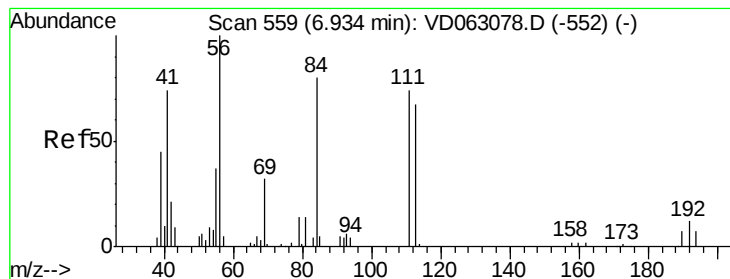
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#31

Cyclohexane

Concen: 1.881 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

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ClientSampleId :

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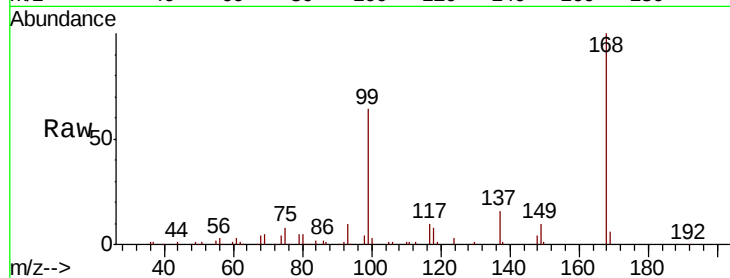
Tot Ion: 56 Resp: 21128

Ion Ratio Lower Upper

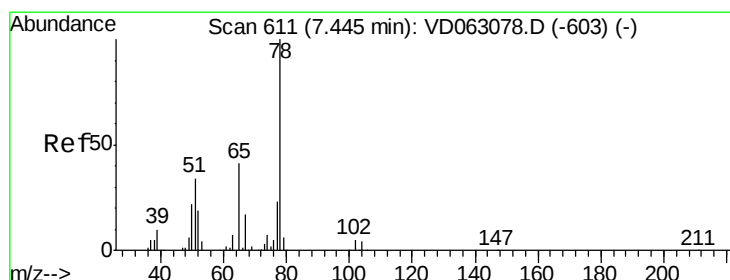
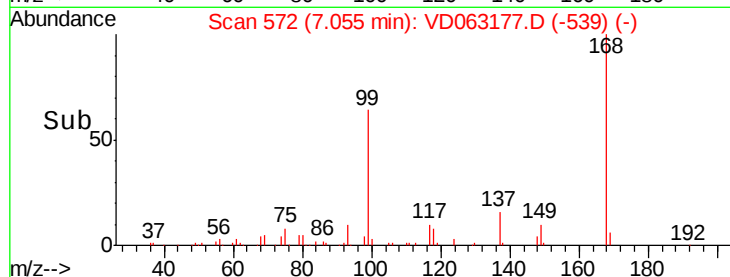
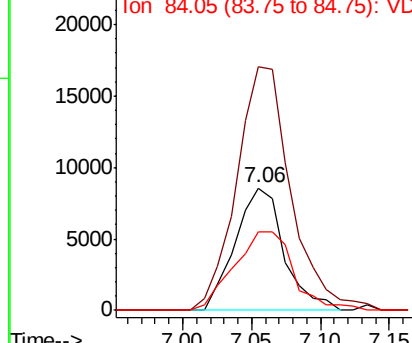
56 100

69 199.4 25.3 37.9#

84 64.8 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



#33

1,2-Dichloroethane-d4

Concen: 58.443 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD063177.D

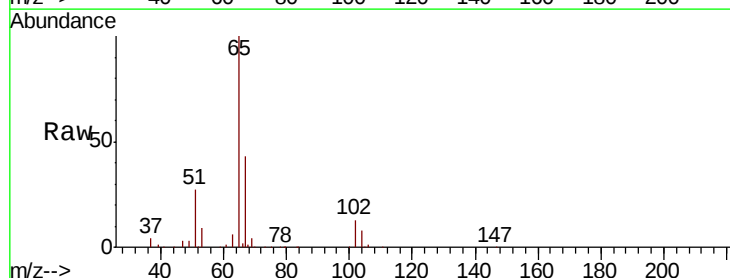
Acq: 22 Jul 2019 15:19

Tgt Ion: 65 Resp: 689478

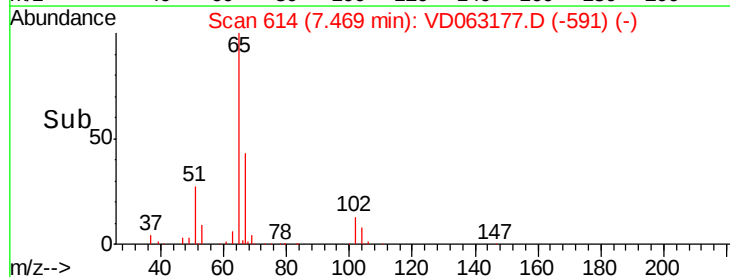
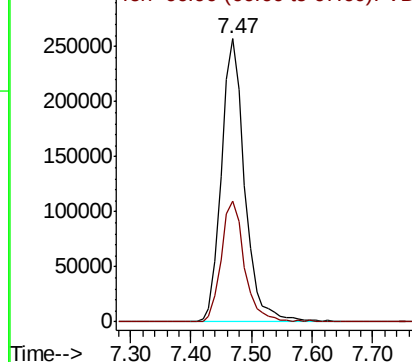
Ion Ratio Lower Upper

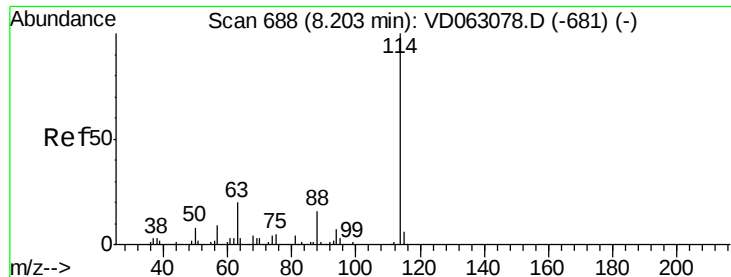
65 100

67 42.7 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.03 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

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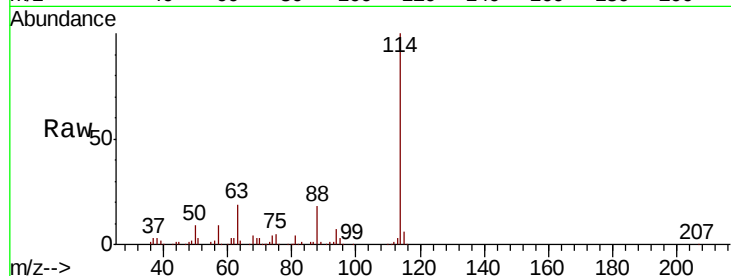
Tot Ion:114 Resp: 1239199

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.6

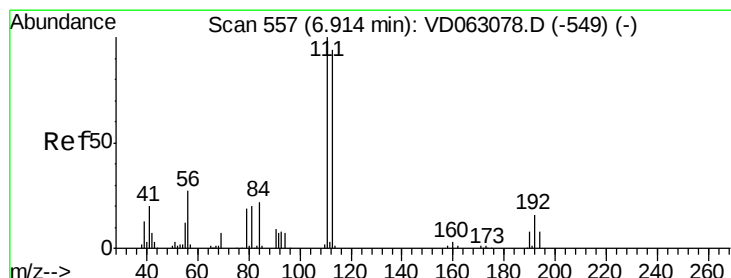
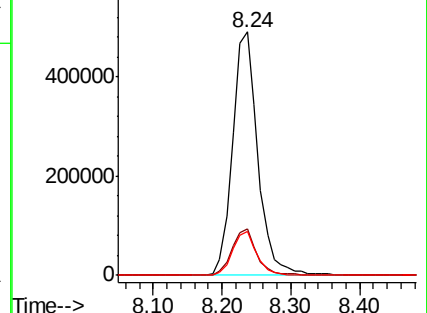
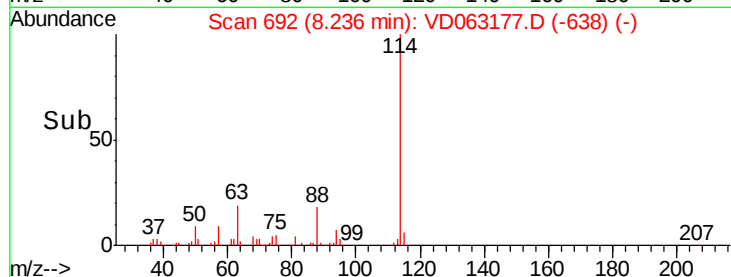
88 17.9 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 57.287 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

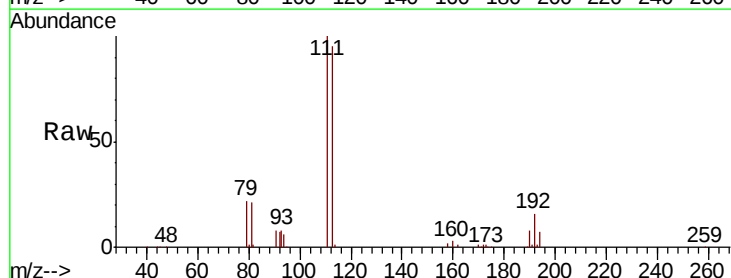
Tgt Ion:113 Resp: 707072

Ion Ratio Lower Upper

113 100

111 105.0 84.8 127.2

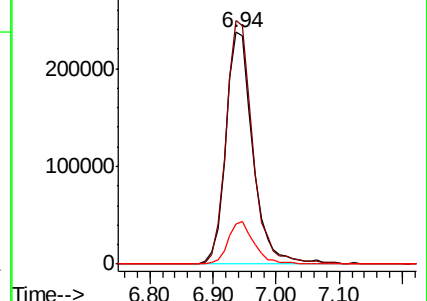
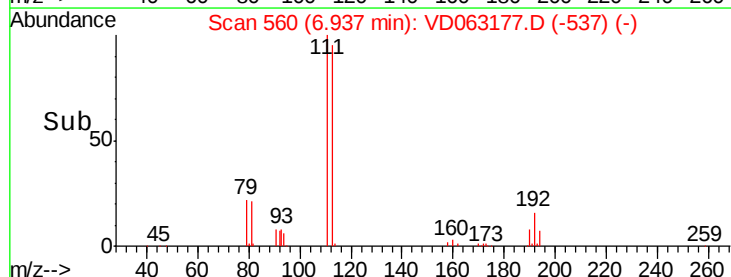
192 17.0 13.4 20.0

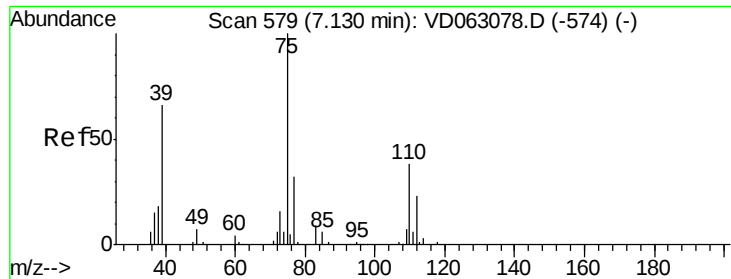


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

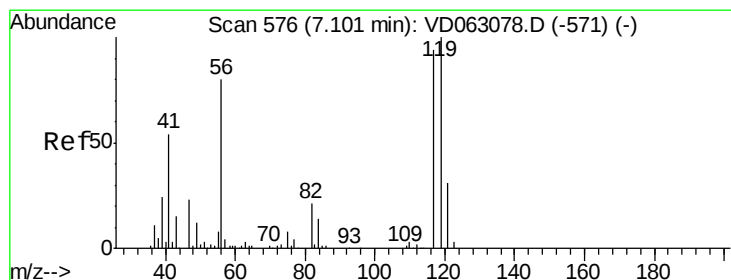
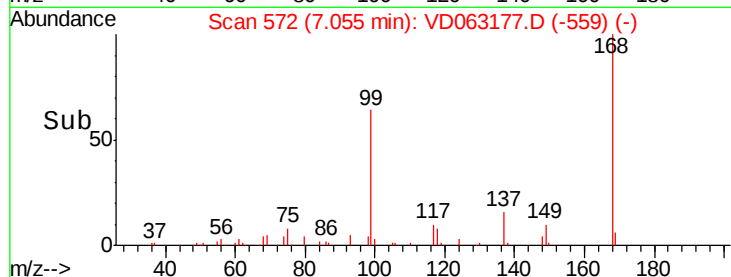
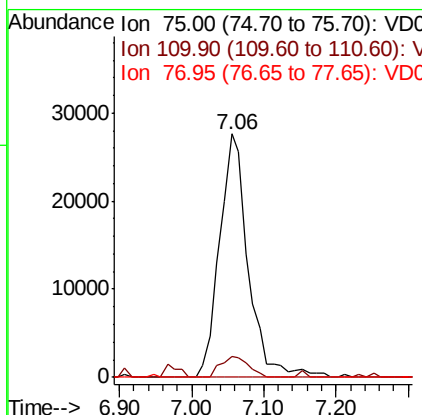
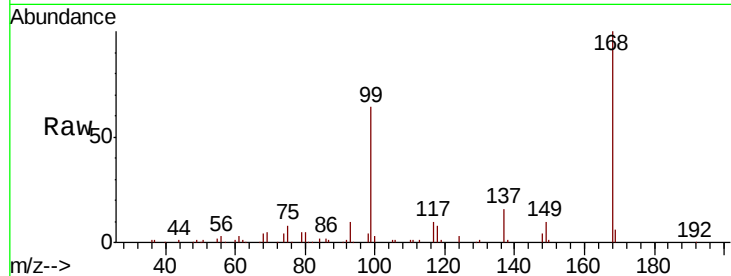




#36
 1,1-Dichloropropene
 Concen: 5.422 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.08 min
 Lab File: VD063177.D
 Acq: 22 Jul 2019 15:19

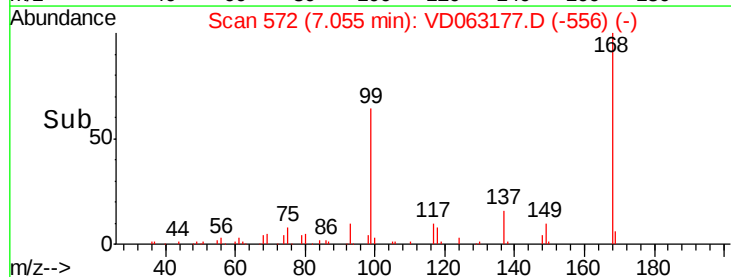
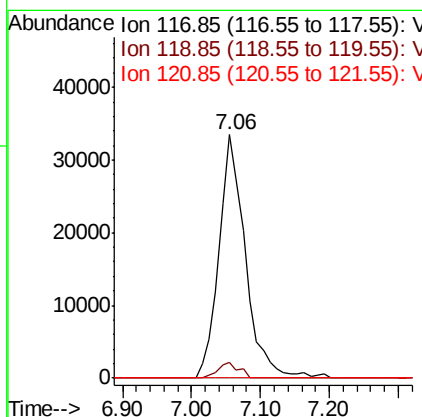
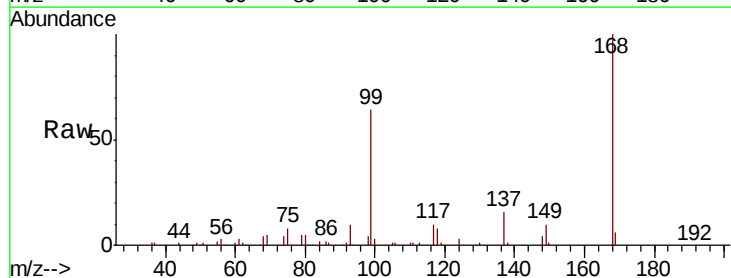
Instrument :
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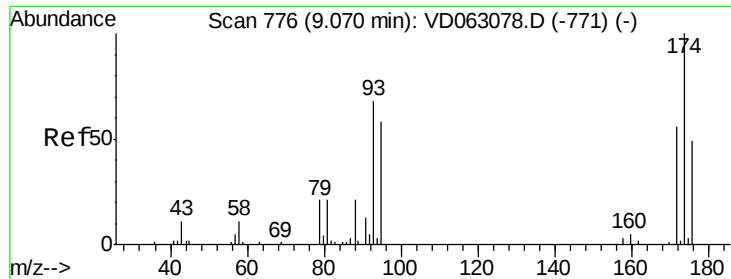
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.9	56.5#
77	0.0	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 4.215 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.05 min
 Lab File: VD063177.D
 Acq: 22 Jul 2019 15:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	80.0	120.0#
121	0.0	25.0	37.4#

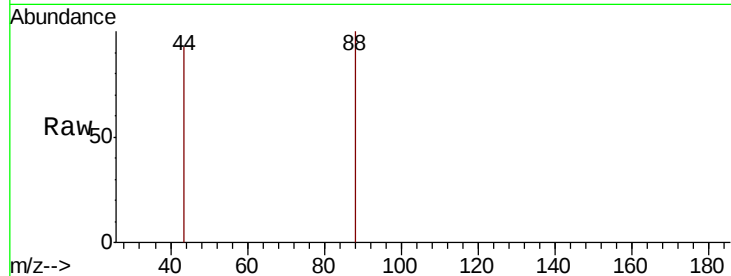




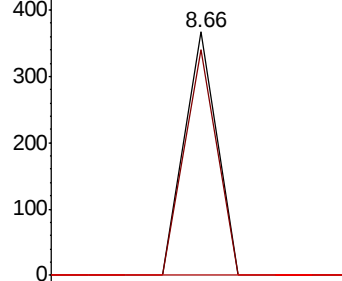
#49
 1,4-Dioxane
 Concen: 4.482 ug/l
 RT: 8.66 min Scan# 735
 Delta R.T. -0.41 min
 Lab File: VD063177.D
 Acq: 22 Jul 2019 15:19

Instrument :
 MSVOA_D
 ClientSampled :
 TP-3

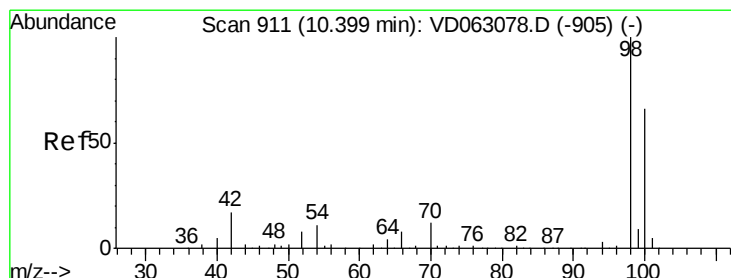
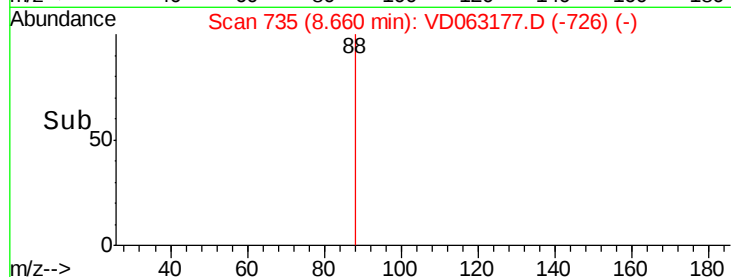
Tot Ion: 88 Resp: 217
 Ion Ratio Lower Upper
 88 100
 43 92.6 40.2 60.4#
 58 0.0 41.6 62.4#



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

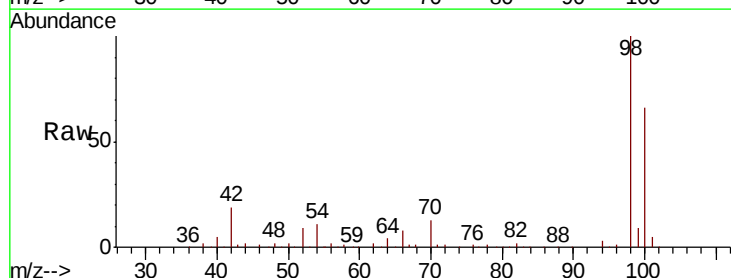


Time-->

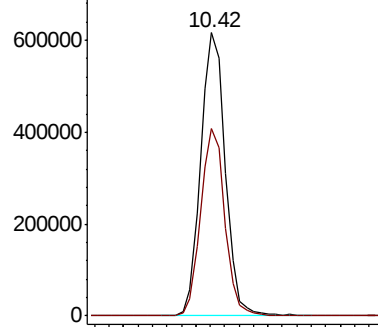


#50
 Toluene-d8
 Concen: 55.193 ug/l
 RT: 10.42 min Scan# 914
 Delta R.T. 0.02 min
 Lab File: VD063177.D
 Acq: 22 Jul 2019 15:19

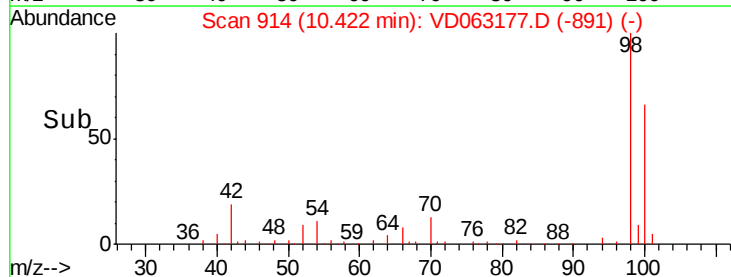
Tgt Ion: 98 Resp: 1463298
 Ion Ratio Lower Upper
 98 100
 100 66.3 53.5 80.3

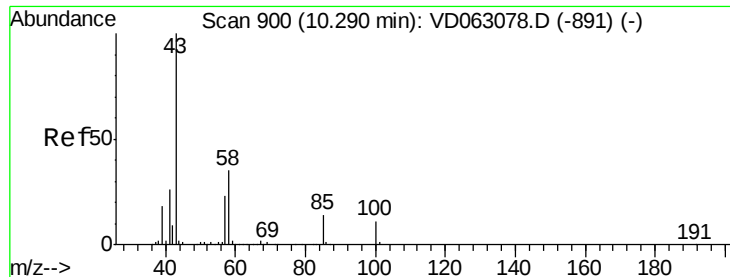


Abundance Ion 98.05 (97.75 to 98.75): VDC
 Ion 100.05 (99.75 to 100.75): VDC



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.454 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.12 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

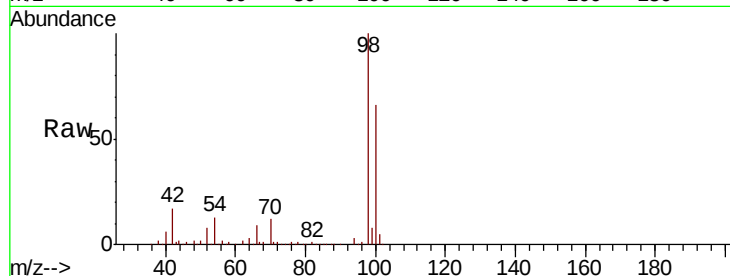
TP-3

Tot Ion: 43 Resp: 8246

Ion Ratio Lower Upper

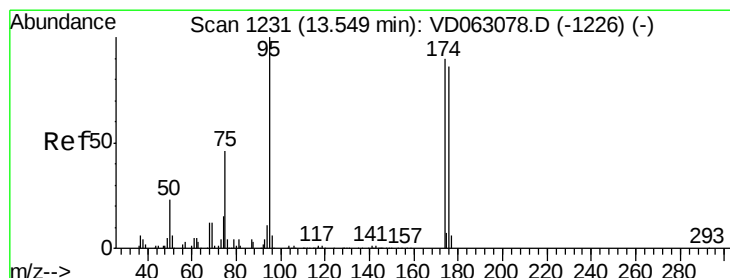
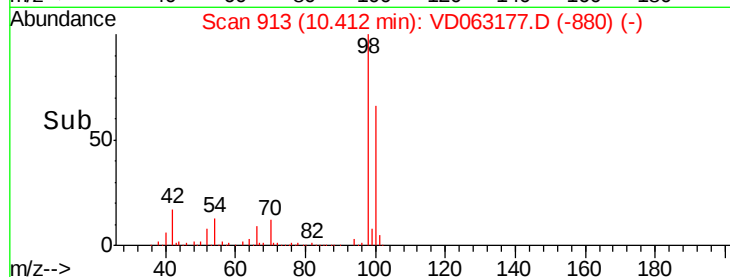
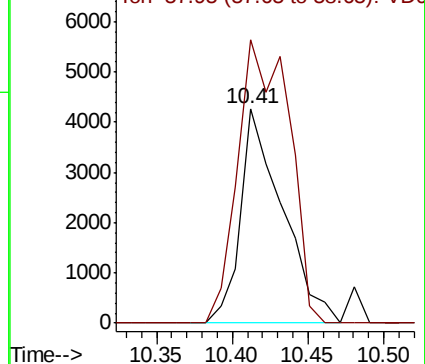
43 100

58 132.0 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 49.898 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

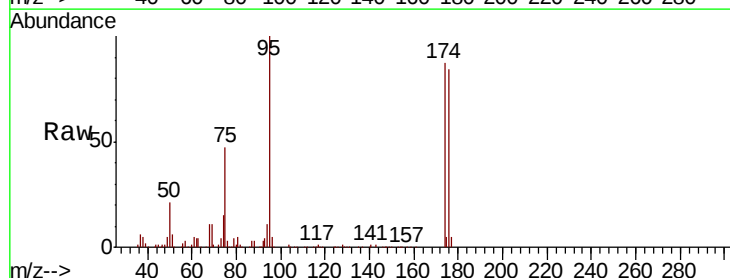
Tgt Ion: 95 Resp: 612029

Ion Ratio Lower Upper

95 100

174 87.0 0.0 180.6

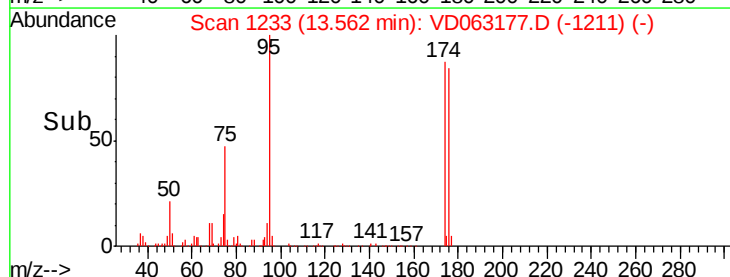
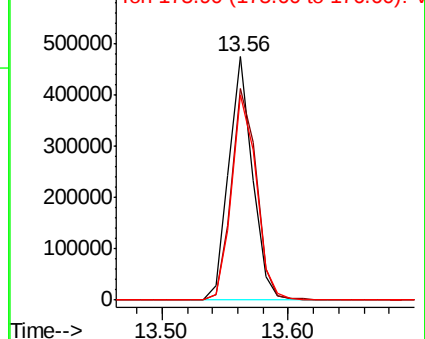
176 84.5 0.0 172.2

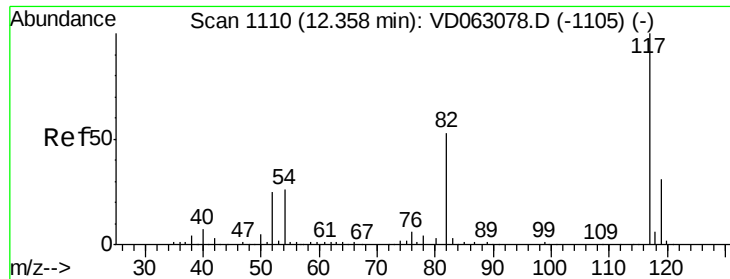


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

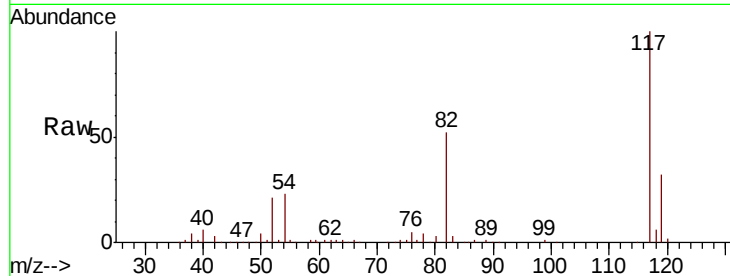




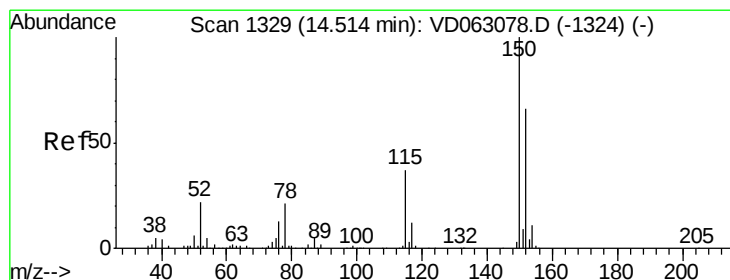
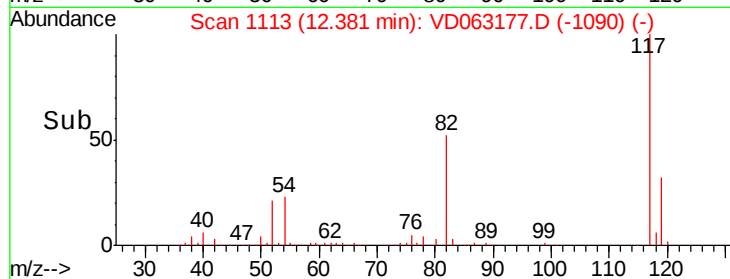
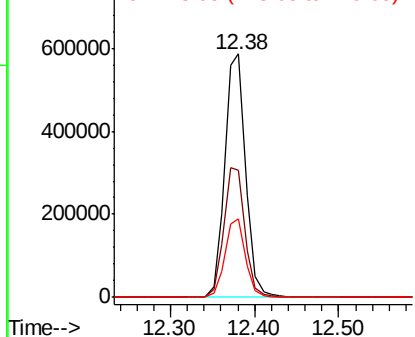
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD063177.D
Acq: 22 Jul 2019 15:19

Instrument :
MSVOA_D
ClientSampleId :
TP-3

Tot Ion:117 Resp: 1005524
Ion Ratio Lower Upper
117 100
82 52.0 42.3 63.5
119 32.3 25.2 37.8

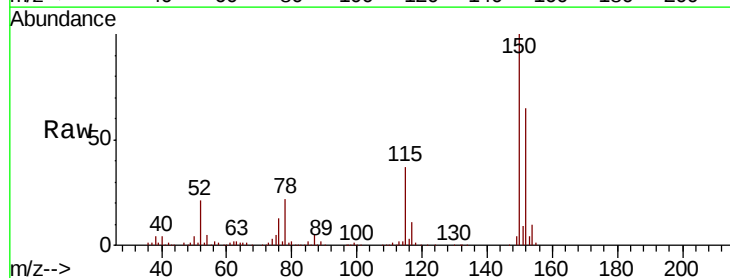


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

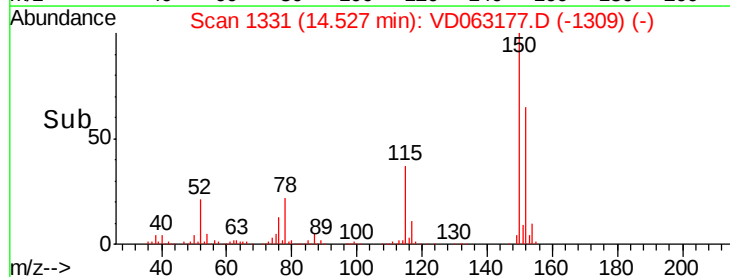
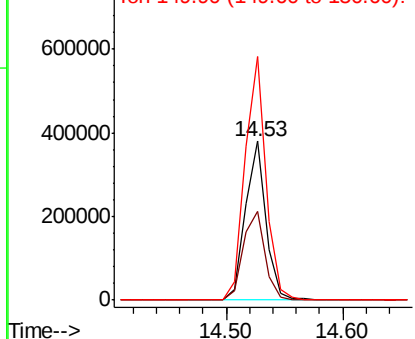


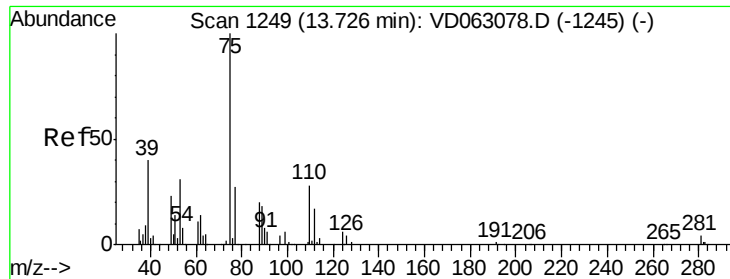
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063177.D
Acq: 22 Jul 2019 15:19

Tgt Ion:152 Resp: 463025
Ion Ratio Lower Upper
152 100
115 56.2 28.9 86.8
150 153.4 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: 39.452 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

Instrument :

MSVOA_D

ClientSampleId :

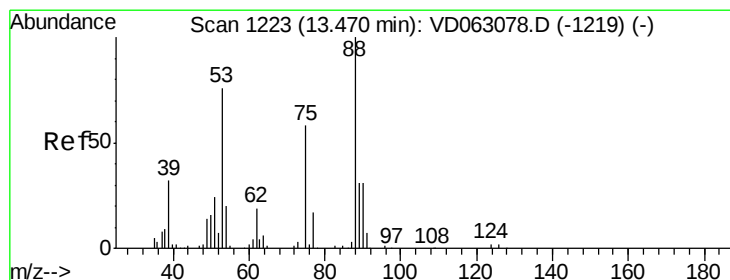
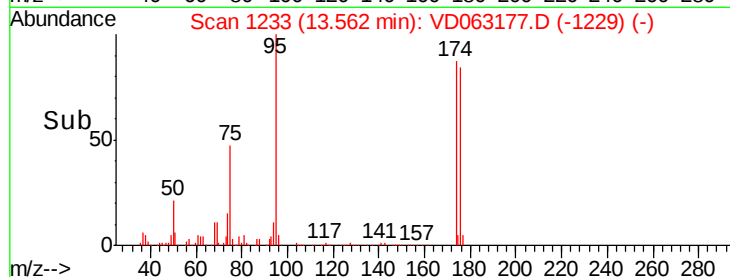
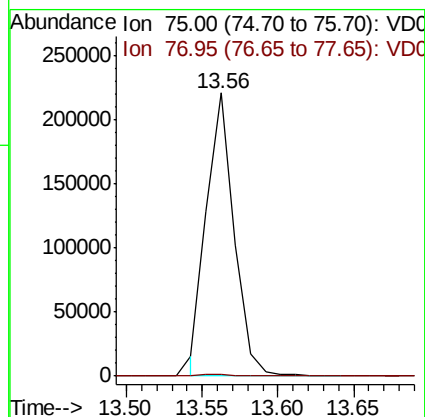
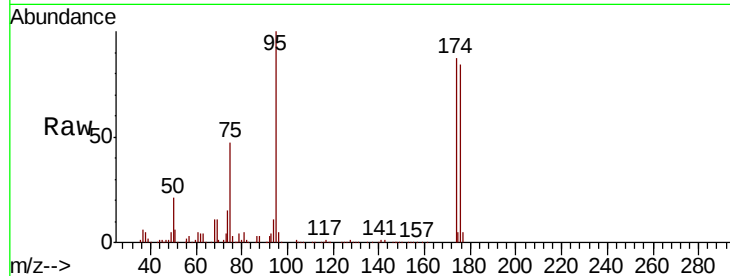
TP-3

Tot Ion: 75 Resp: 281003

Ion Ratio Lower Upper

75 100

77 0.7 16.3 48.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 154.829 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063177.D

Acq: 22 Jul 2019 15:19

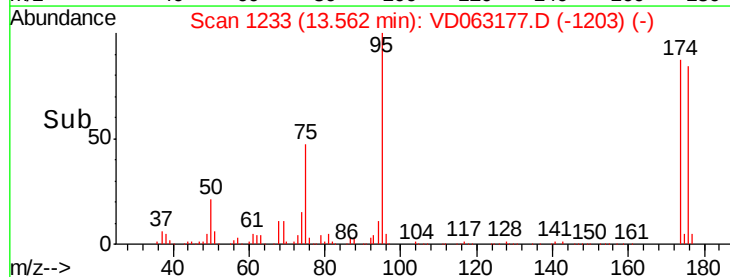
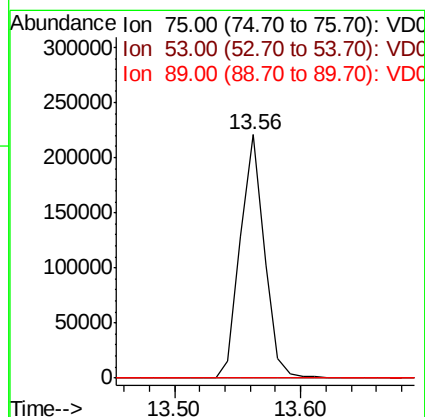
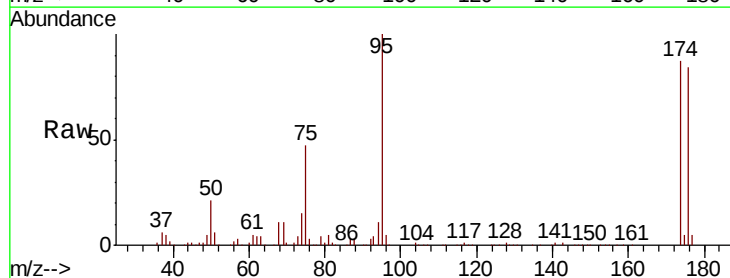
Tgt Ion: 75 Resp: 290407

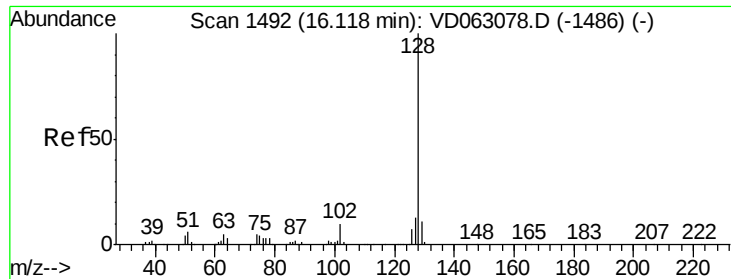
Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#





#95
Naphthalene
Concen: 1.088 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD063177.D
Acq: 22 Jul 2019 15:19

Instrument :
MSVOA_D
ClientSampleId :
TP-3

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.7	16.1
129	13.8	8.7	13.1#

