

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071519\
 Data File : VD063088.D
 Acq On : 15 Jul 2019 18:43
 Operator : VA/AP
 Sample : K3768-01
 Misc : 5.41g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-1

Quant Time: Jul 16 08:22:35 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	7.03	168	780969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1028112	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	832615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	396086	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	459168	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
35) Dibromofluoromethane	6.91	113	501802	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	10.40	98	956592	43.49	ug/l	0.00
Spiked Amount			Recovery	=	86.98%	
62) 4-Bromofluorobenzene	13.55	95	420747	41.35	ug/l	0.00
Spiked Amount			Recovery	=	82.70%	

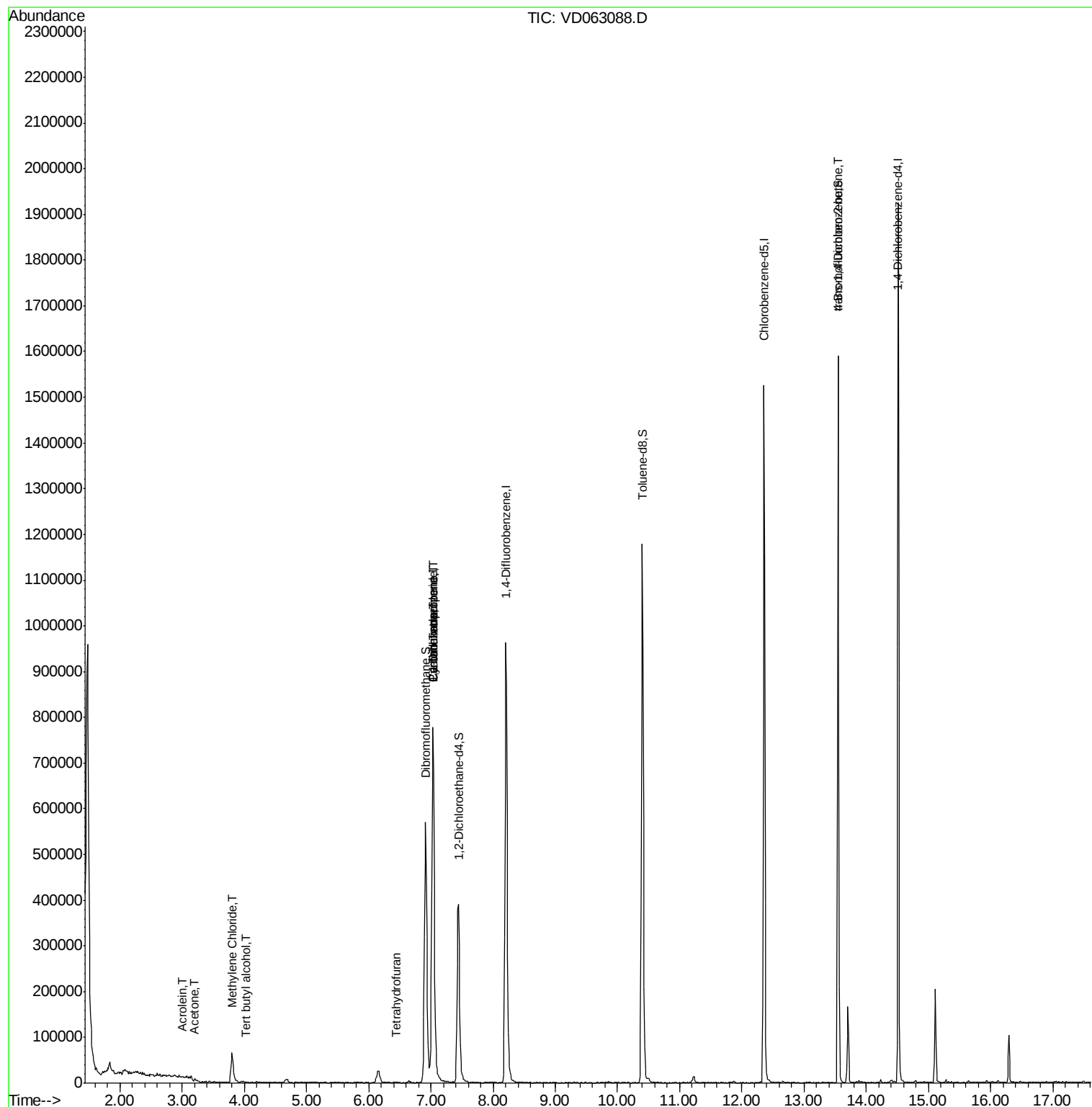
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1064	Below Cal	#	43
3) Chloromethane	1.75	50	485	Below Cal	#	48
5) Bromomethane	2.15	94	1685	Below Cal	#	13
11) Tert butyl alcohol	4.04	59	684	1.218	ug/l #	77
13) Acrolein	2.99	56	415	2.449	ug/l #	1
16) Acetone	3.21	43	6006	2.556	ug/l	98
18) Methyl Acetate	3.61	43	241	Below Cal	#	63
20) Methylene Chloride	3.80	84	42266	4.761	ug/l #	93
29) Tetrahydrofuran	6.45	42	1593	1.566	ug/l #	33
31) Cyclohexane	7.03	56	16068	1.735	ug/l #	4
36) 1,1-Dichloropropene	7.02	75	59298	5.128	ug/l #	44
38) Carbon Tetrachloride	7.03	117	73810	4.201	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	195941	122.120	ug/l #	1

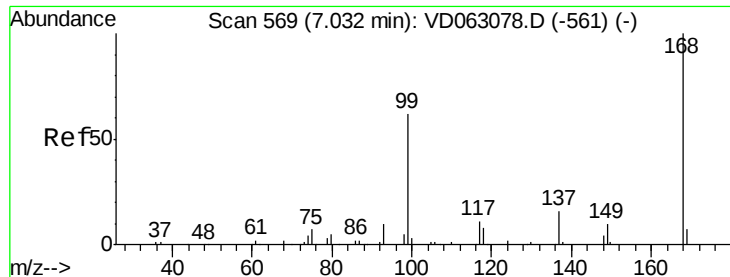
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

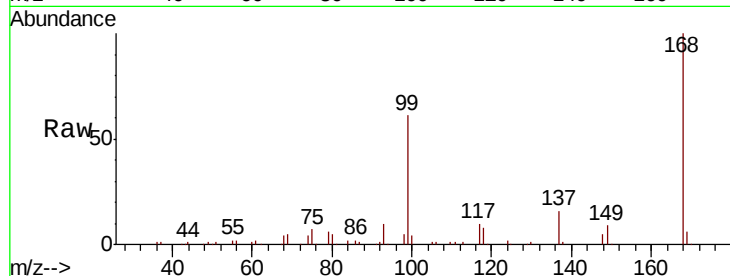
TP-1

Tot Ion:168 Resp: 780969

Ion Ratio Lower Upper

168 100

99 61.4 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

300000

250000

200000

150000

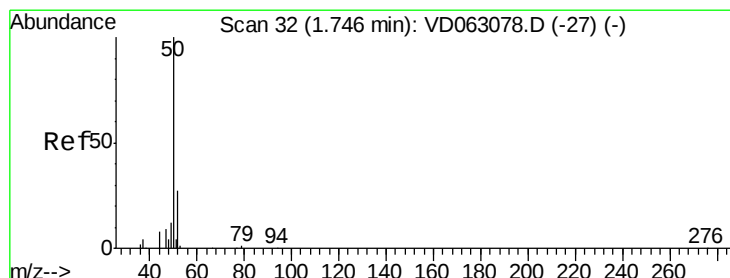
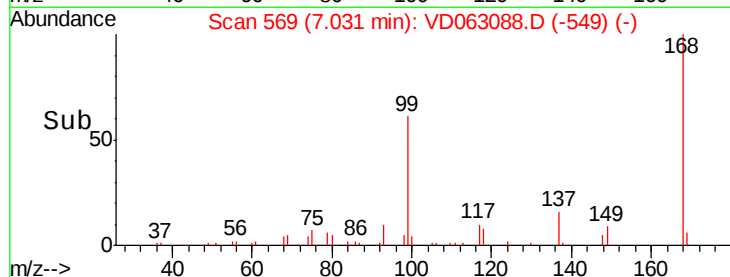
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063088.D

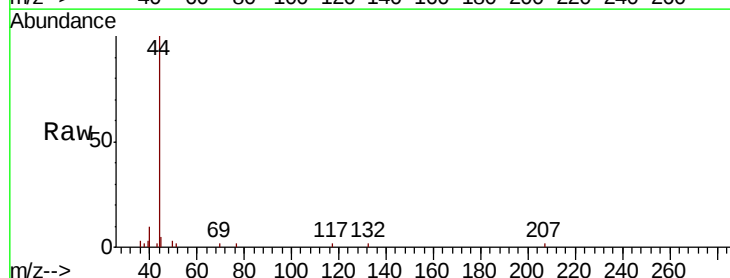
Acq: 15 Jul 2019 18:43

Tgt Ion: 50 Resp: 485

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

1000

800

600

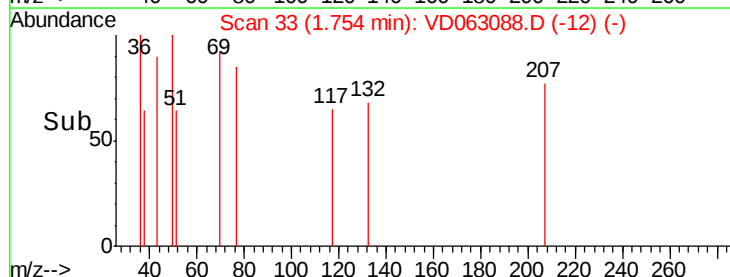
400

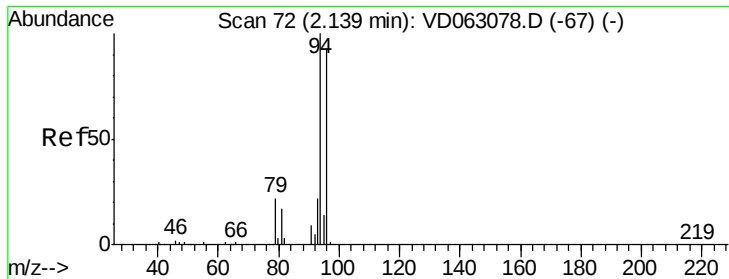
200

0

Time-->

1.72 1.74 1.76





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampled :

TP-1

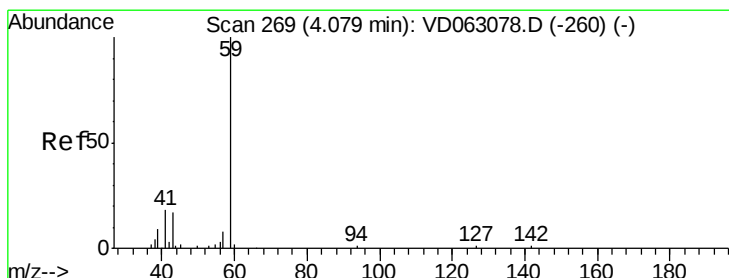
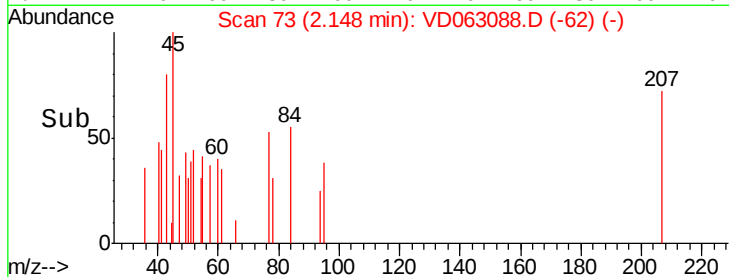
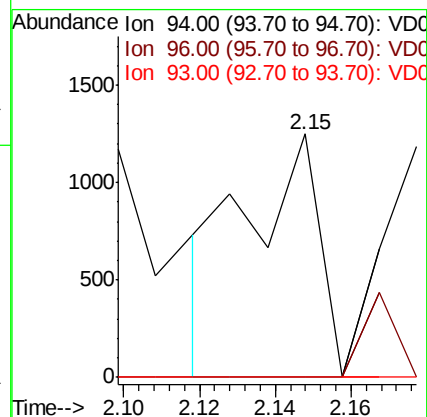
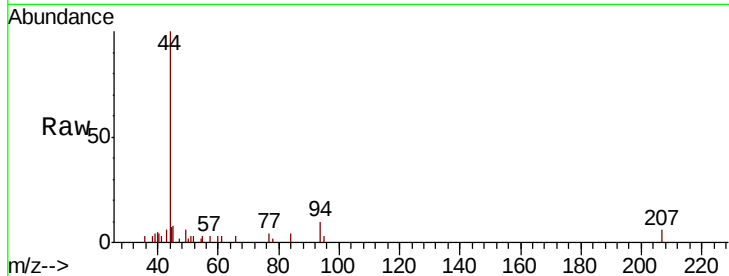
Tot Ion: 94 Resp: 1685

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: 1.218 ug/l

RT: 4.04 min Scan# 265

Delta R.T. -0.04 min

Lab File: VD063088.D

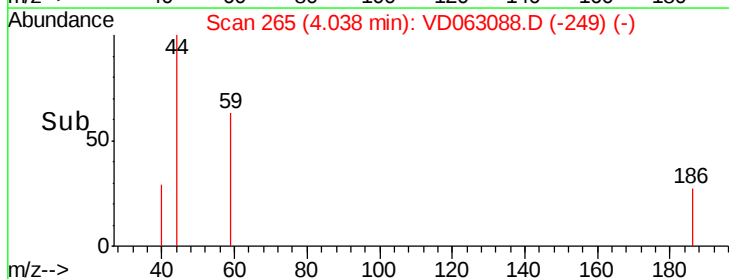
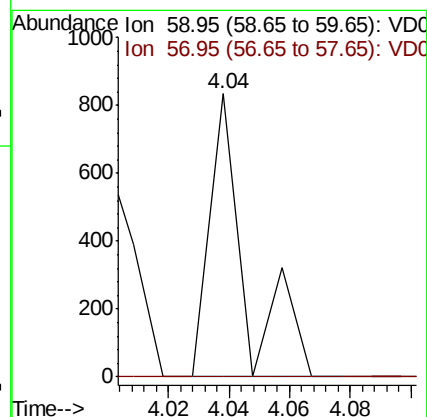
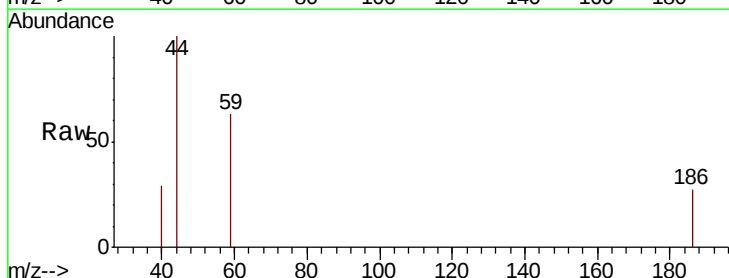
Acq: 15 Jul 2019 18:43

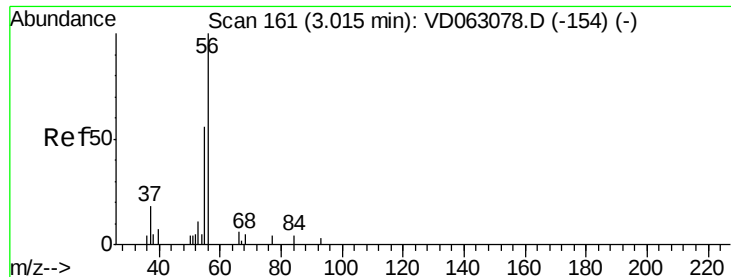
Tgt Ion: 59 Resp: 684

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 2.449 ug/l

RT: 2.99 min Scan# 159

Delta R.T. -0.02 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

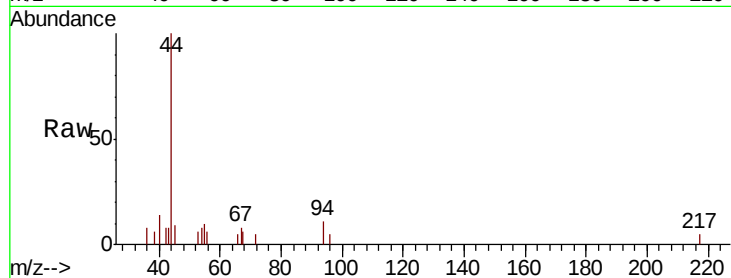
TP-1

Tot Ion: 56 Resp: 415

Ion Ratio Lower Upper

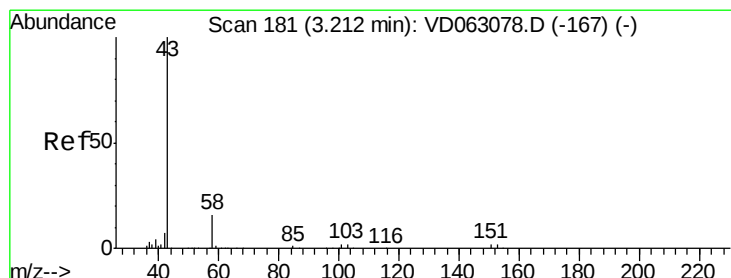
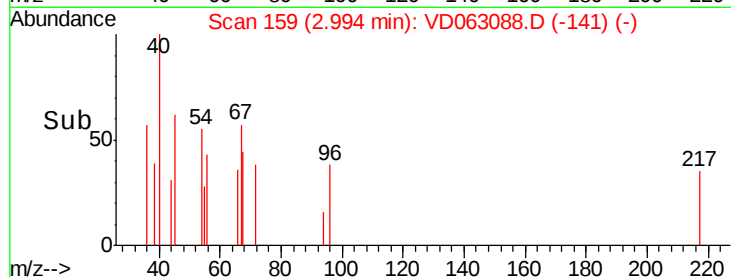
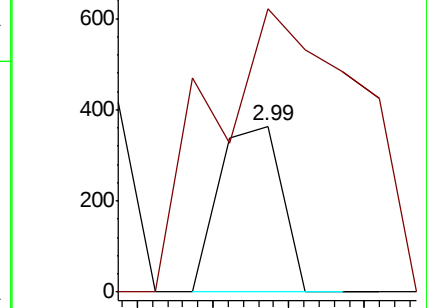
56 100

55 170.6 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 2.556 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.00 min

Lab File: VD063088.D

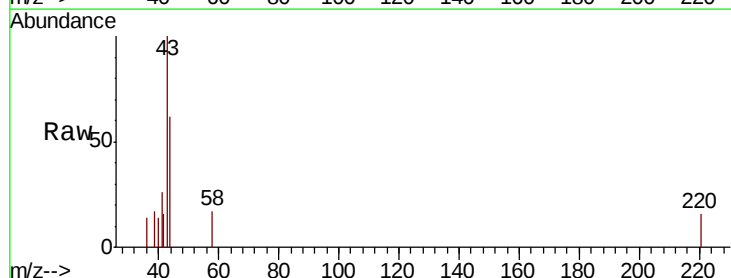
Acq: 15 Jul 2019 18:43

Tgt Ion: 43 Resp: 6006

Ion Ratio Lower Upper

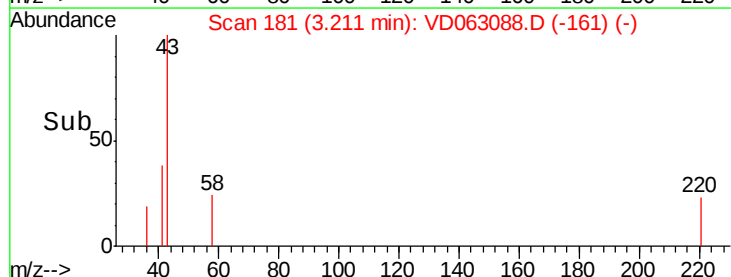
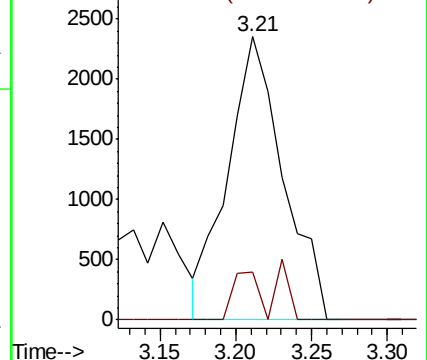
43 100

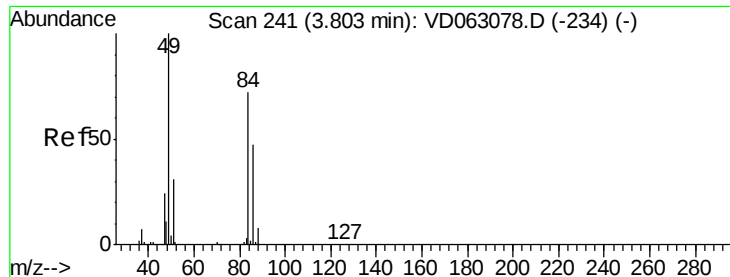
58 16.9 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

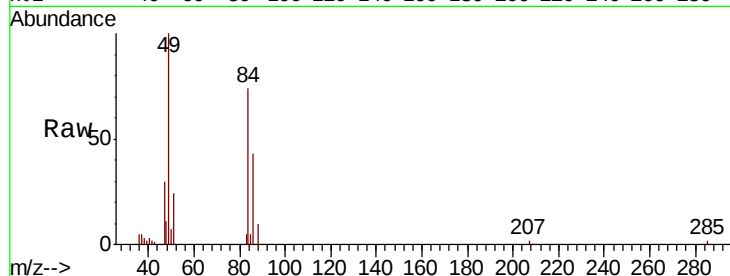




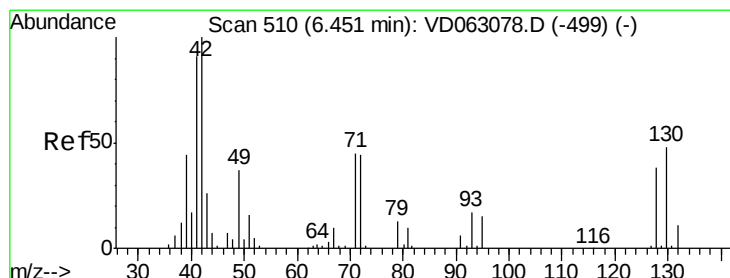
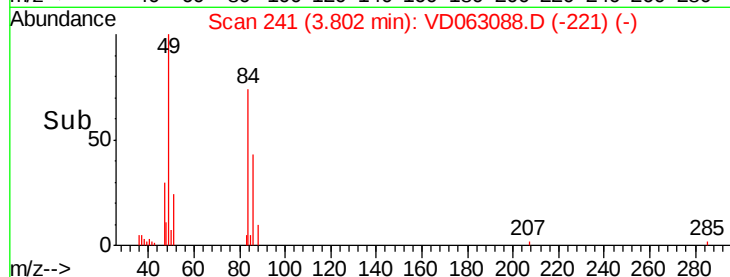
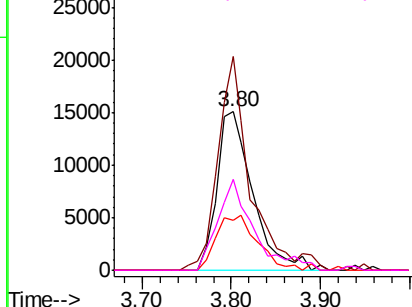
#20
Methvlene Chloride
Concen: 4.761 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD063088.D
Acq: 15 Jul 2019 18:43

Instrument :
MSVOA_D
ClientSampleId :
TP-1

Tot Ion: 84 Resp: 42266
Ion Ratio Lower Upper
84 100
49 134.9 110.5 165.7
51 31.9 34.6 51.8#
86 57.8 51.6 77.4

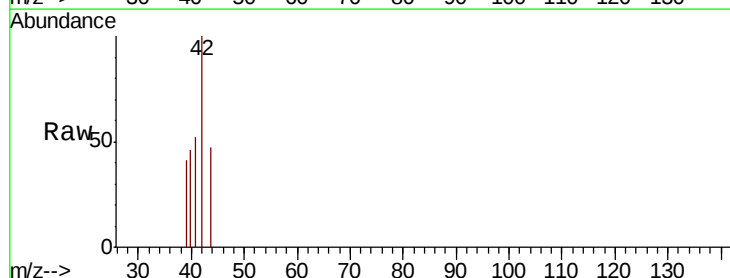


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

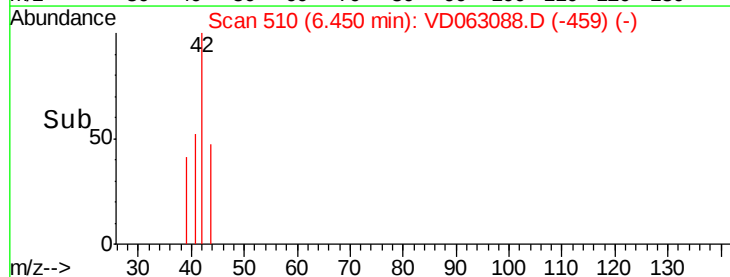
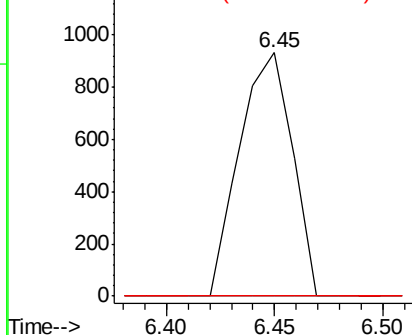


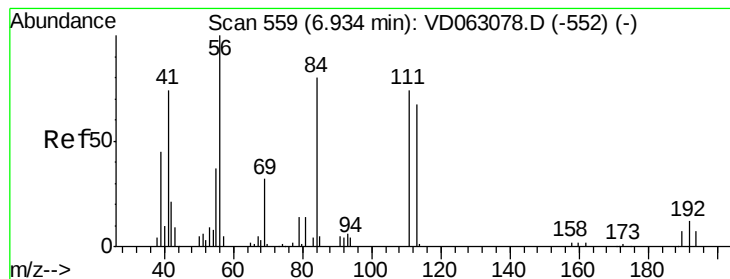
#29
Tetrahydrofuran
Concen: 1.566 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD063088.D
Acq: 15 Jul 2019 18:43

Tgt Ion: 42 Resp: 1593
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 34.2 51.2#



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





#31

Cyclohexane

Concen: 1.735 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.10 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampleID :

TP-1

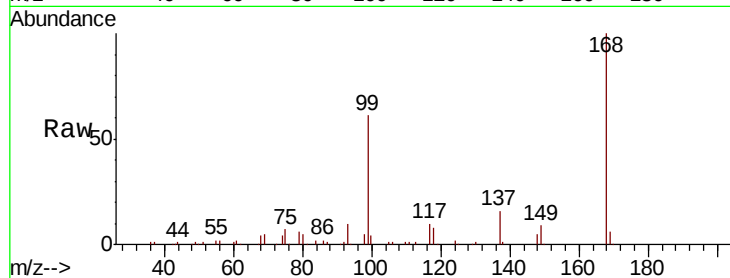
Tot Ion: 56 Resp: 16068

Ion Ratio Lower Upper

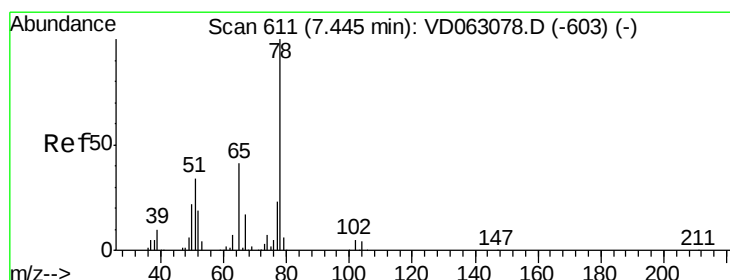
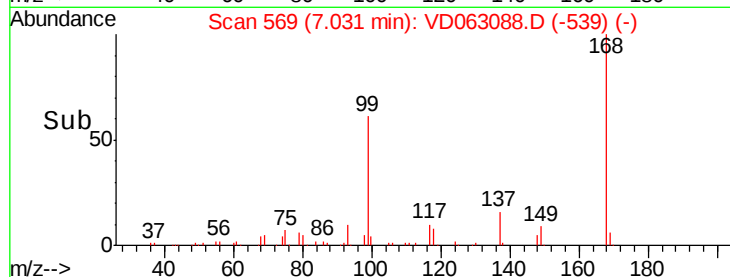
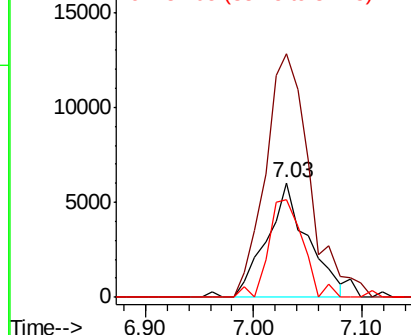
56 100

69 212.9 25.3 37.9#

84 85.1 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: 47.198 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD063088.D

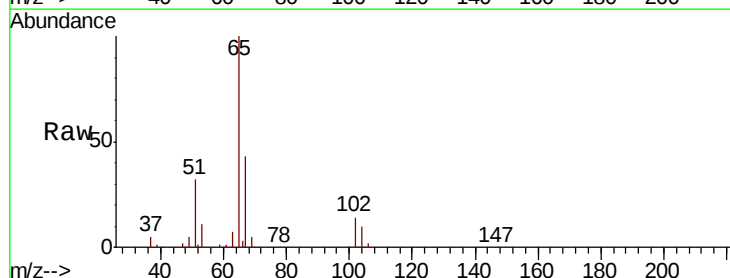
Acq: 15 Jul 2019 18:43

Tgt Ion: 65 Resp: 459168

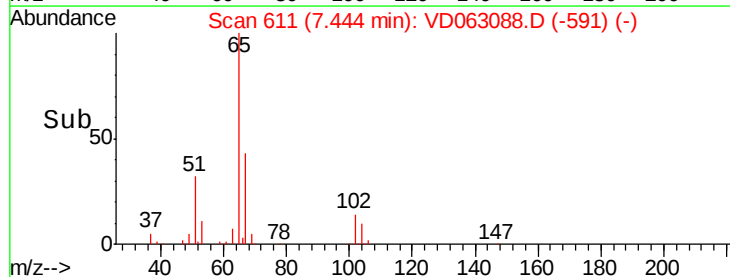
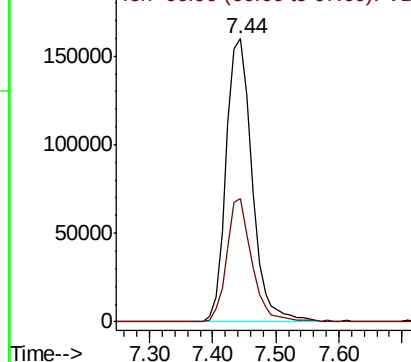
Ion Ratio Lower Upper

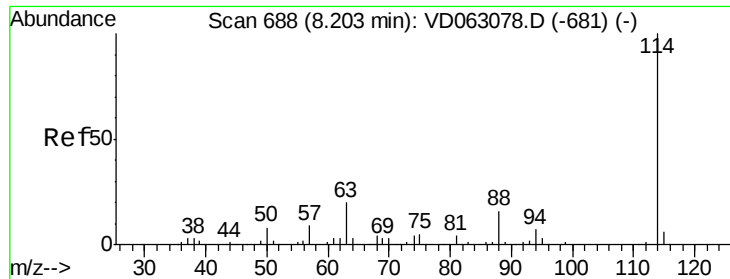
65 100

67 43.5 0.0 86.0



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

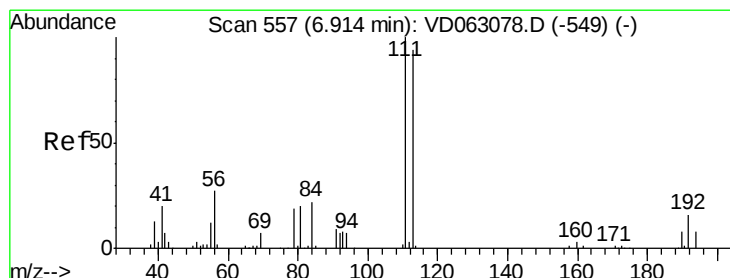
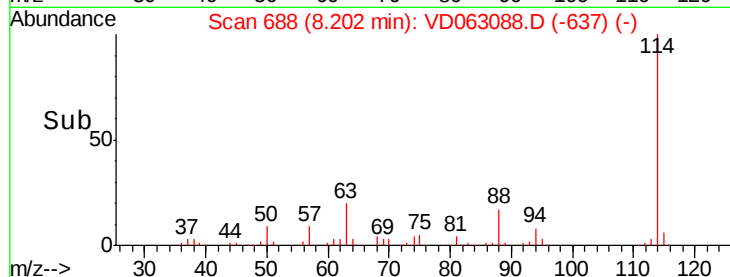
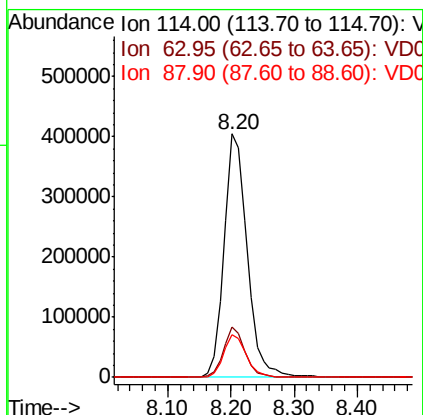
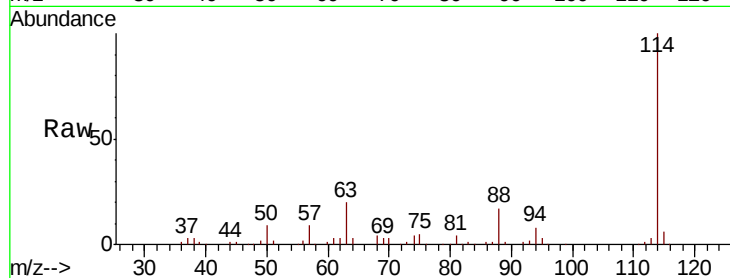




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.00 min
 Lab File: VD063088.D
 Acq: 15 Jul 2019 18:43

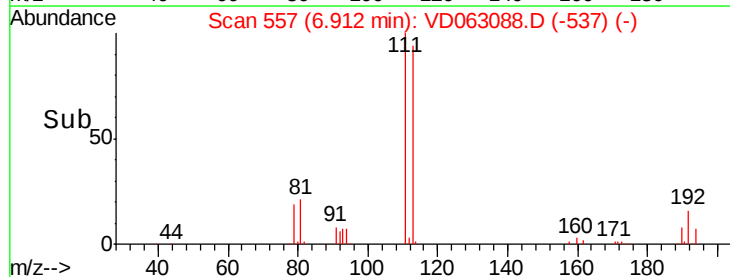
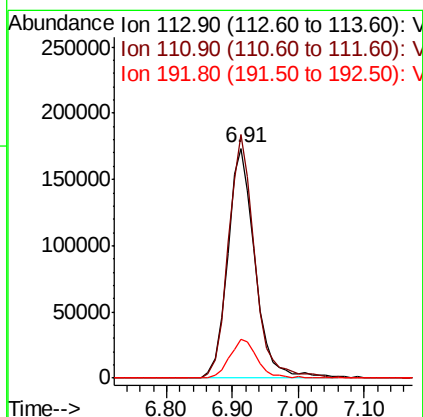
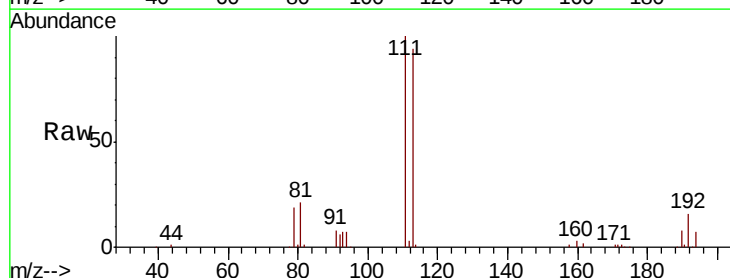
Instrument :
 MSVOA_D
 ClientSampled :
 TP-1

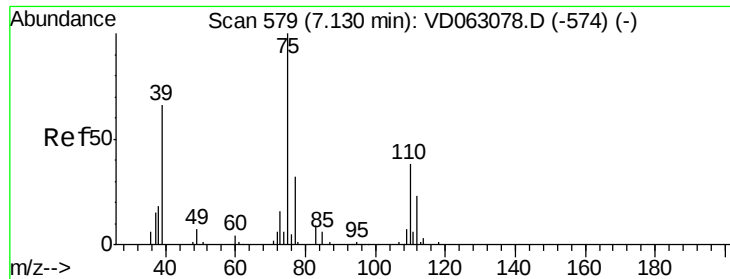
Tot Ion:114 Resp: 1028112
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.6
 88 17.4 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 49.003 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.00 min
 Lab File: VD063088.D
 Acq: 15 Jul 2019 18:43

Tgt Ion:113 Resp: 501802
 Ion Ratio Lower Upper
 113 100
 111 106.0 84.8 127.2
 192 17.2 13.4 20.0





#36

1,1-Dichloropropene

Concen: 5.128 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.11 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampled :

TP-1

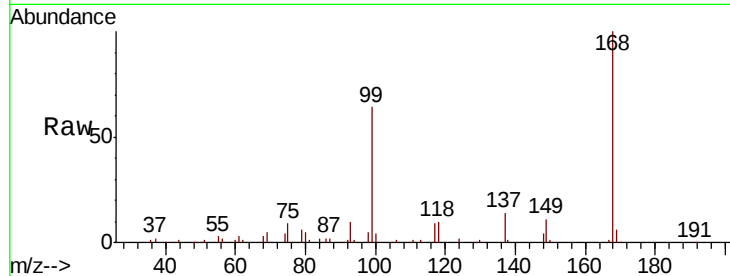
Tot Ion: 75 Resp: 59298

Ion Ratio Lower Upper

75 100

110 5.0 18.9 56.5#

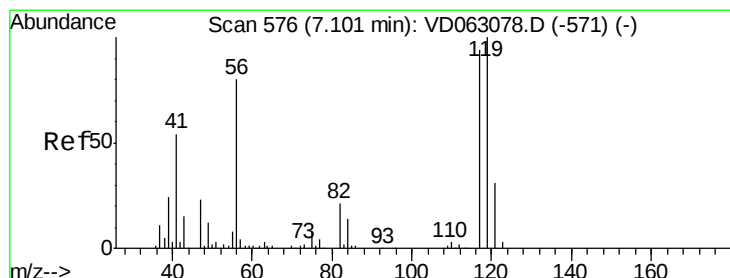
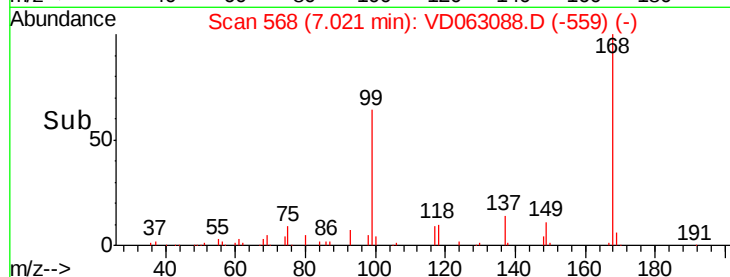
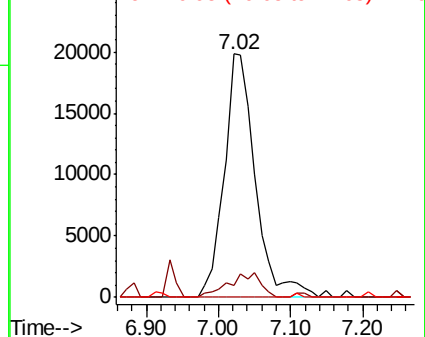
77 0.0 25.2 37.8#



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



#38

Carbon Tetrachloride

Concen: 4.201 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

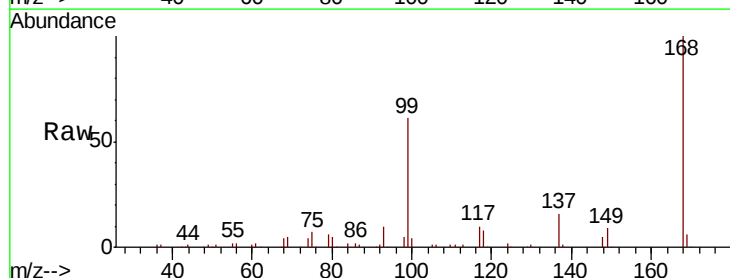
Tgt Ion: 117 Resp: 73810

Ion Ratio Lower Upper

117 100

119 4.2 80.0 120.0#

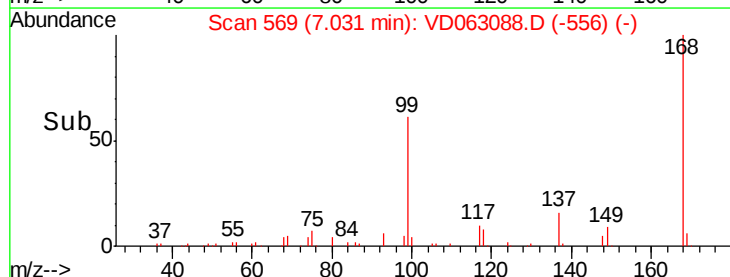
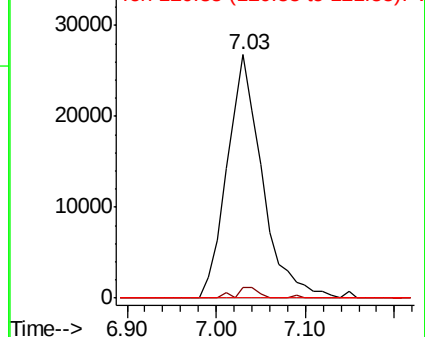
121 0.0 25.0 37.4#

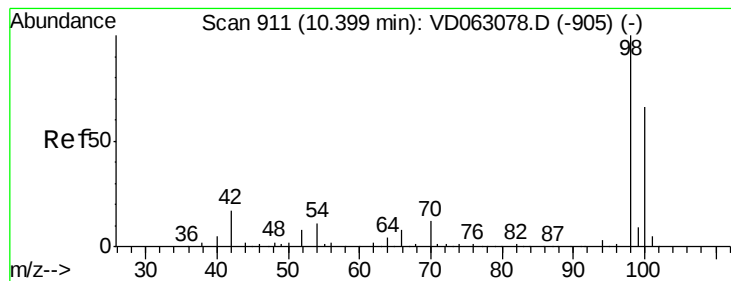


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 43.489 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.00 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

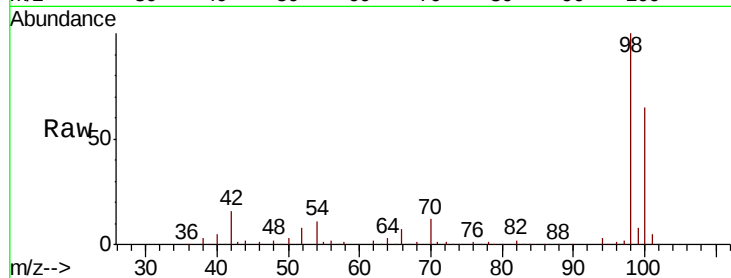
TP-1

Tot Ion: 98 Resp: 956592

Ion Ratio Lower Upper

98 100

100 64.7 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

400000

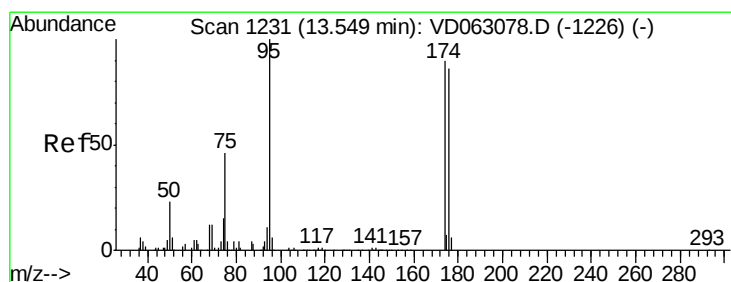
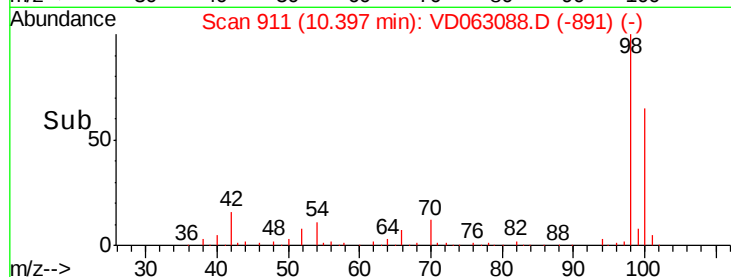
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.346 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

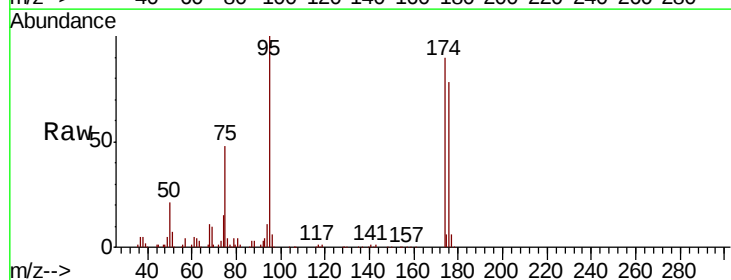
Tgt Ion: 95 Resp: 420747

Ion Ratio Lower Upper

95 100

174 89.5 0.0 180.6

176 78.0 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

13.55

400000

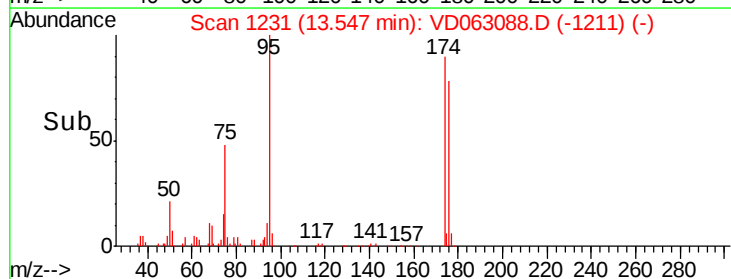
300000

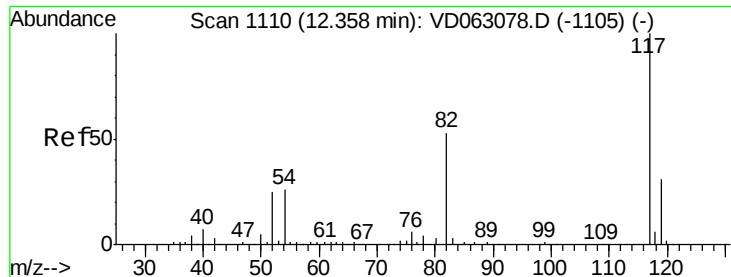
200000

100000

0

Time-->

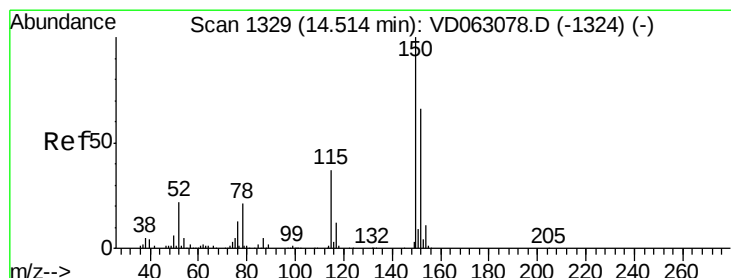
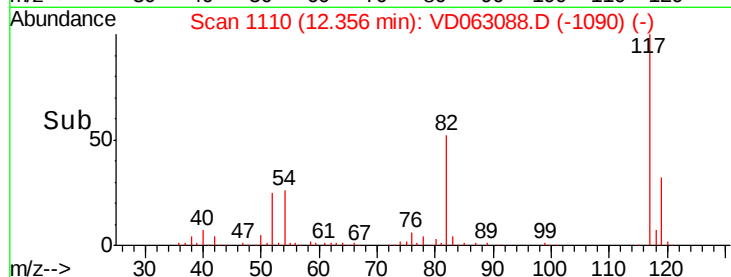
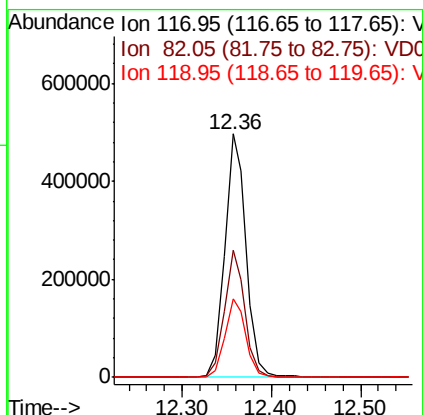
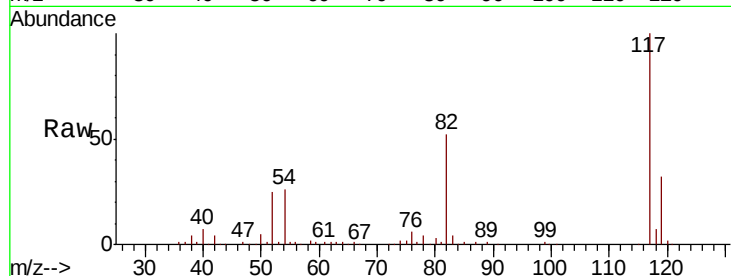




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD063088.D
Acq: 15 Jul 2019 18:43

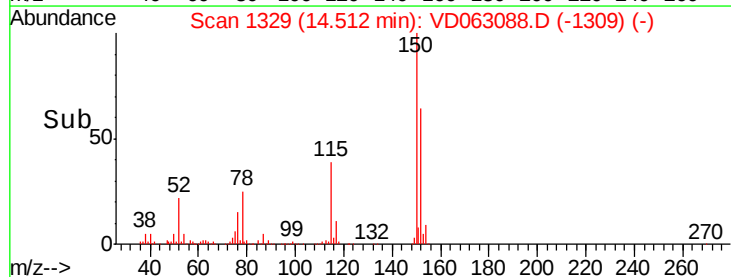
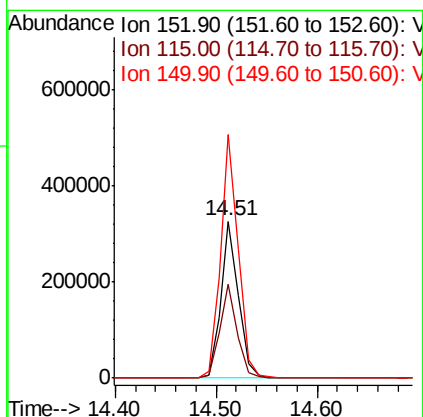
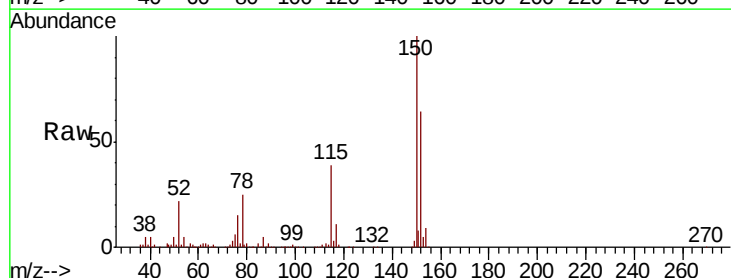
Instrument :
MSVOA_D
ClientSampleId :
TP-1

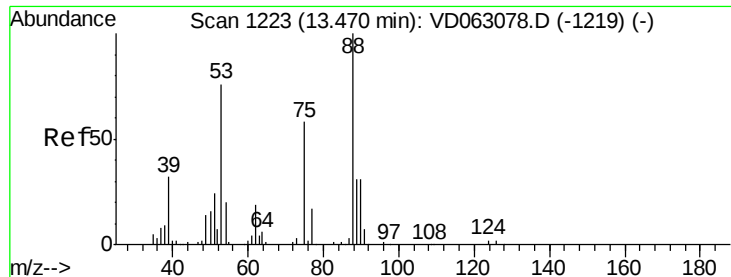
Tot Ion:117 Resp: 832615
Ion Ratio Lower Upper
117 100
82 52.4 42.3 63.5
119 32.3 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD063088.D
Acq: 15 Jul 2019 18:43

Tgt Ion:152 Resp: 396086
Ion Ratio Lower Upper
152 100
115 59.9 28.9 86.8
150 155.3 0.0 313.8





#81

trans-1,4-Dichloro-2-butene

Concen: 122.120 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063088.D

Acq: 15 Jul 2019 18:43

Instrument :

MSVOA_D

ClientSampleId :

TP-1

Tot Ion: 75 Resp: 195941

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

