

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063152.D
 Acq On : 19 Jul 2019 14:30
 Operator : VA/AP
 Sample : K3835-03RE
 Misc : 5.12g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 05:00:50 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	7.05	168	895132	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1133048	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	959215	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	364775	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	402891	36.13	ug/l	0.00
Spiked Amount			Recovery	=	72.26%	
35) Dibromofluoromethane	6.92	113	442470	39.21	ug/l	0.00
Spiked Amount			Recovery	=	78.42%	
50) Toluene-d8	10.41	98	855385	35.29	ug/l	0.01
Spiked Amount			Recovery	=	70.58%	
62) 4-Bromofluorobenzene	13.55	95	328828	29.32	ug/l	0.00
Spiked Amount			Recovery	=	58.64%	

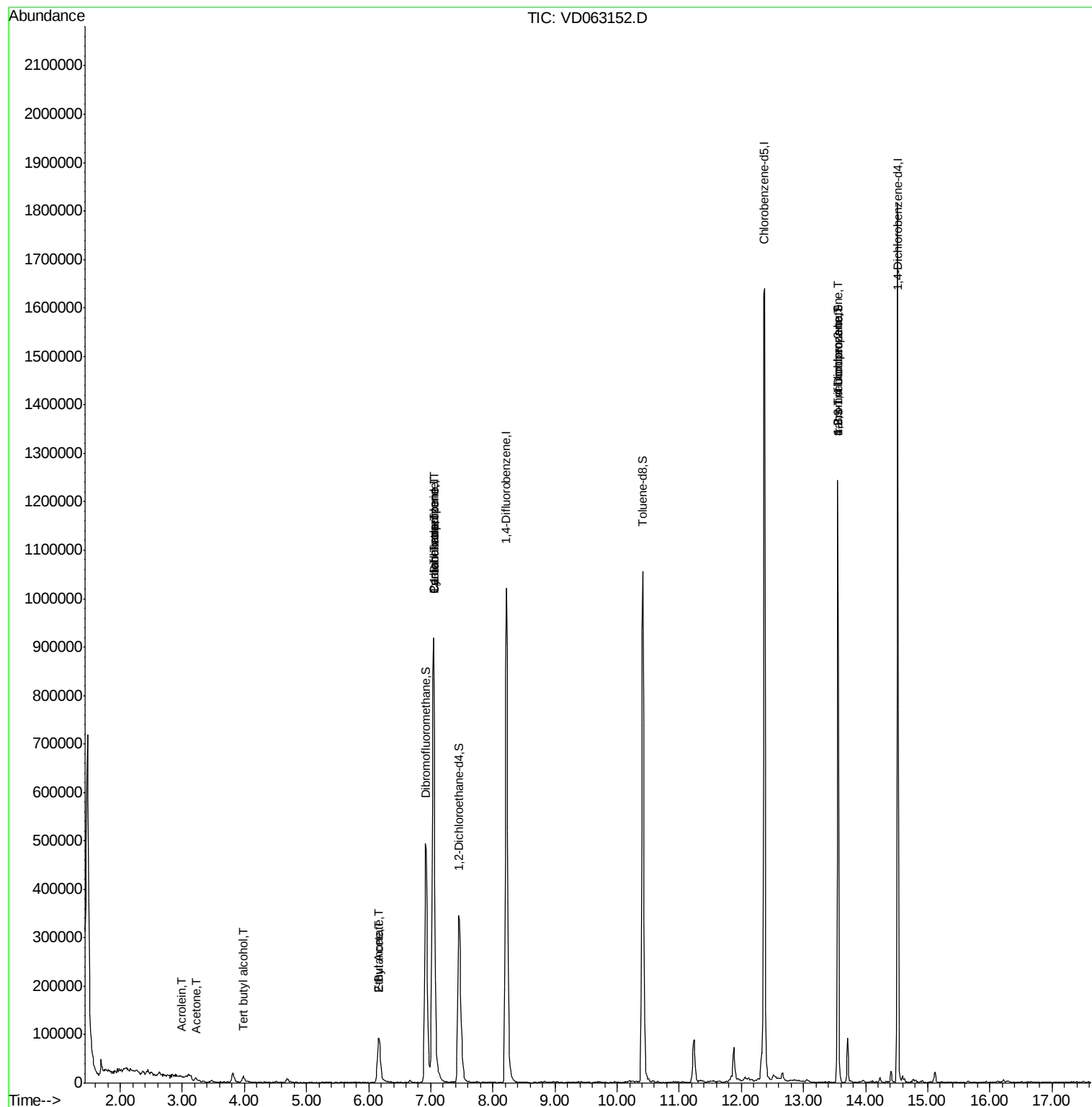
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	1763	Below Cal	#	43
3) Chloromethane	1.74	50	504	Below Cal	#	24
5) Bromomethane	2.18	94	1366	Below Cal	#	13
11) Tert butyl alcohol	3.97	59	10981	17.064	ug/l #	77
13) Acrolein	3.00	56	276	1.421	ug/l #	17
16) Acetone	3.21	43	16419	6.096	ug/l #	78
18) Methyl Acetate	3.63	43	442	Below Cal	#	63
25) 2-Butanone	6.17	43	8376	3.257	ug/l #	61
31) Cyclohexane	7.04	56	21665	2.041	ug/l #	18
36) 1,1-Dichloropropene	7.05	75	65317	5.126	ug/l #	47
37) Ethyl Acetate	6.17	43	8376	1.536	ug/l #	38
38) Carbon Tetrachloride	7.05	117	89000	4.596	ug/l #	13
76) 1,2,3-Trichloropropane	13.55	75	121144	21.589	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	158700	107.399	ug/l #	1

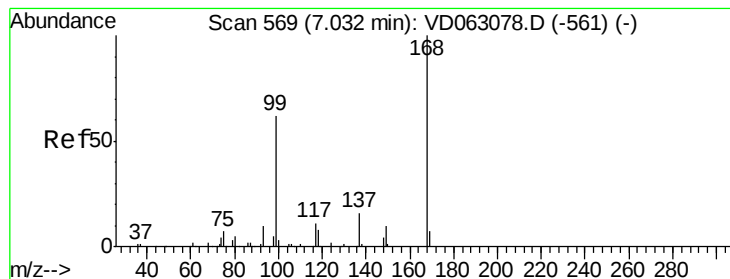
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

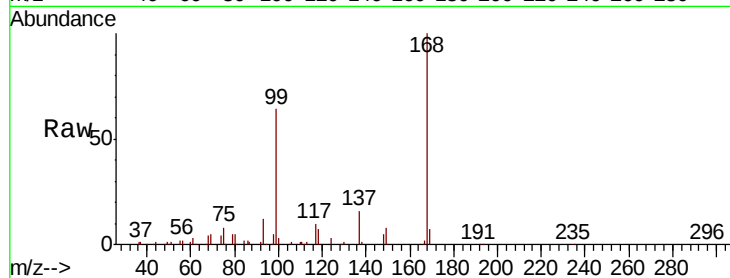
ClientSampleId :

Tot Ion:168 Resp: 895132

Ion Ratio Lower Upper

168 100

99 64.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

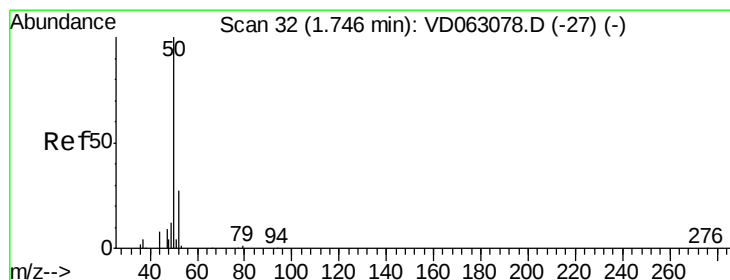
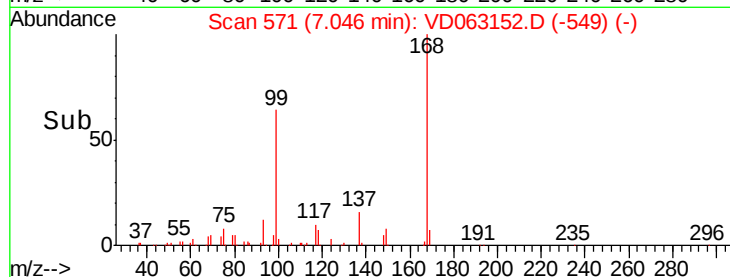
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063152.D

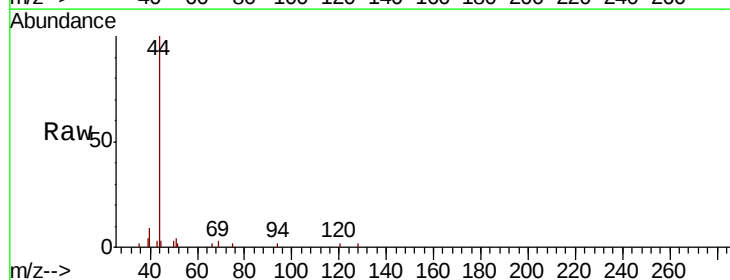
Acq: 19 Jul 2019 14:30

Tgt Ion: 50 Resp: 504

Ion Ratio Lower Upper

50 100

52 66.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

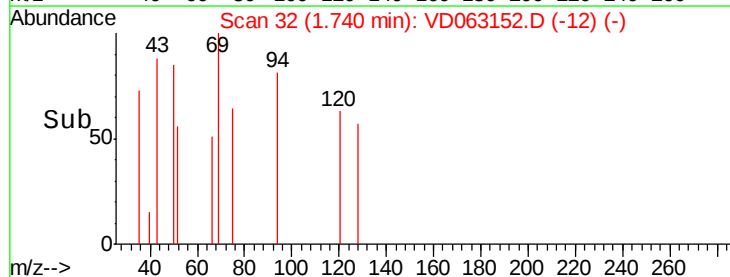
600

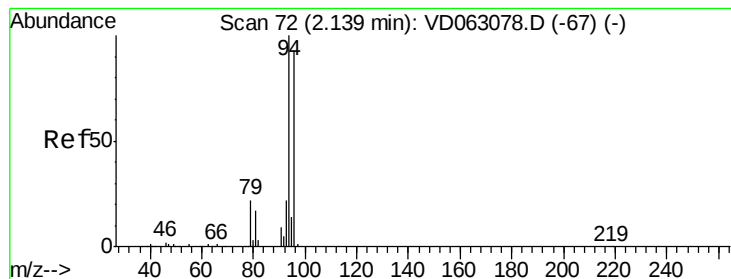
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.04 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

ClientSampleId :

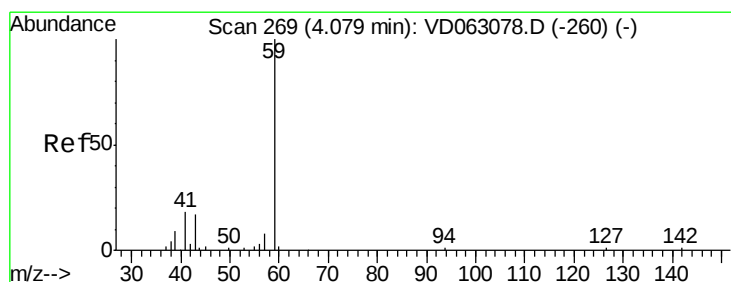
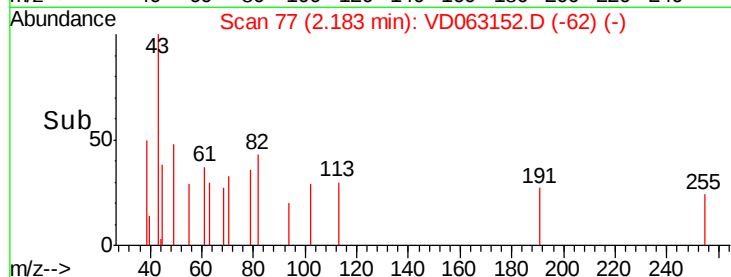
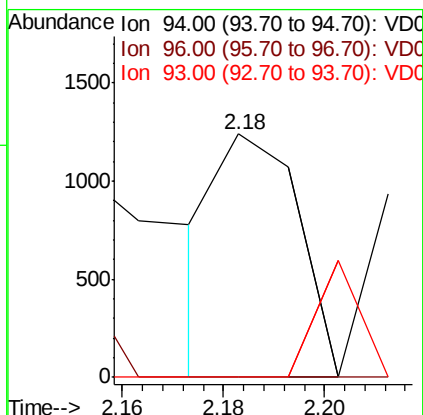
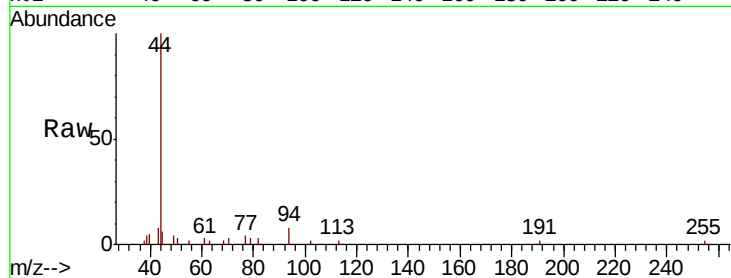
Tot Ion: 94 Resp: 1366

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: 17.064 ug/l

RT: 3.97 min Scan# 259

Delta R.T. -0.10 min

Lab File: VD063152.D

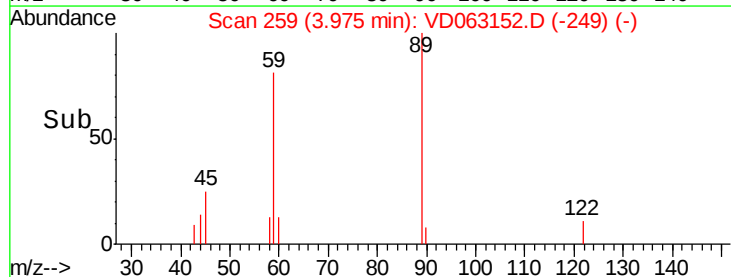
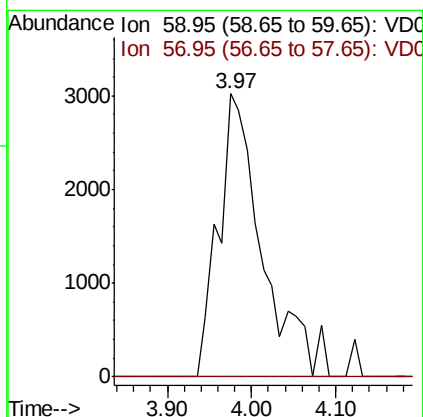
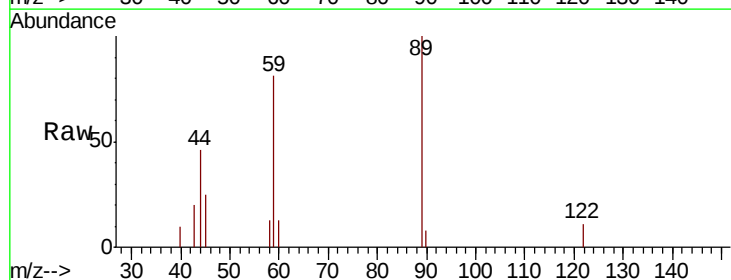
Acq: 19 Jul 2019 14:30

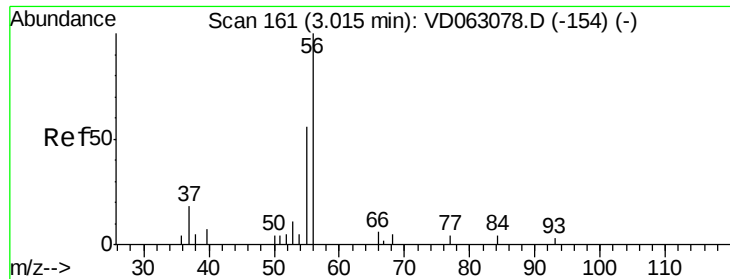
Tgt Ion: 59 Resp: 10981

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.421 ug/l

RT: 3.00 min Scan# 160

Delta R.T. -0.02 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

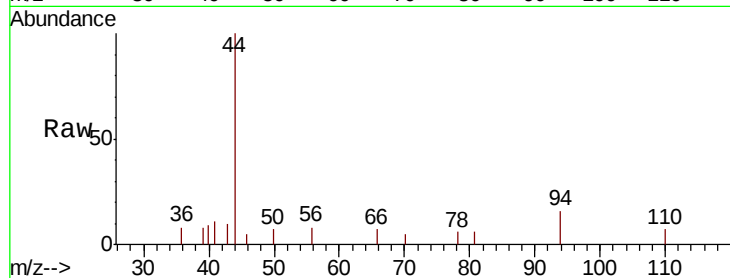
ClientSampleId :

Tot Ion: 56 Resp: 276

Ion Ratio Lower Upper

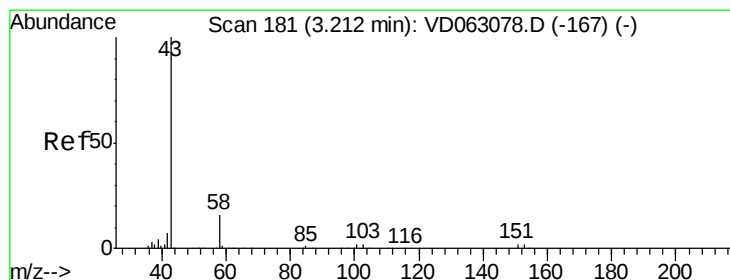
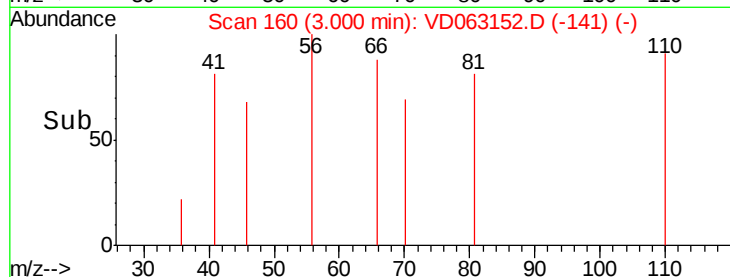
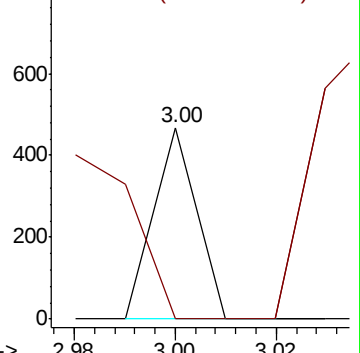
56 100

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



#16

Acetone

Concen: 6.096 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063152.D

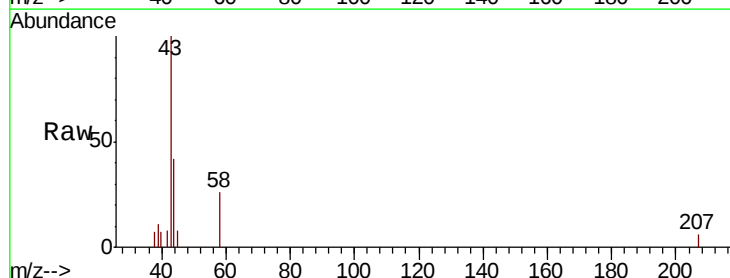
Acq: 19 Jul 2019 14:30

Tgt Ion: 43 Resp: 16419

Ion Ratio Lower Upper

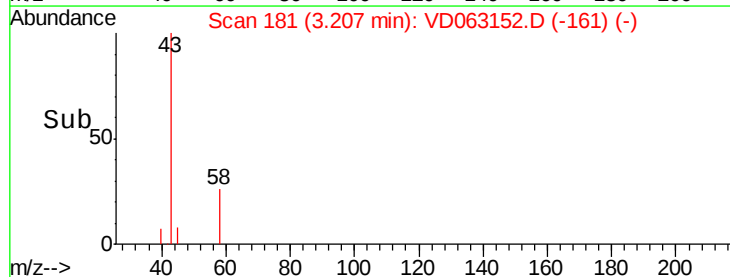
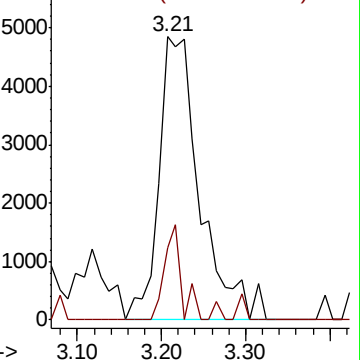
43 100

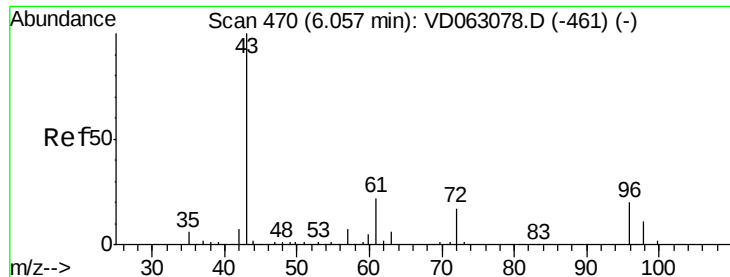
58 25.6 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#25

2-Butanone

Concen: 3.257 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.11 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

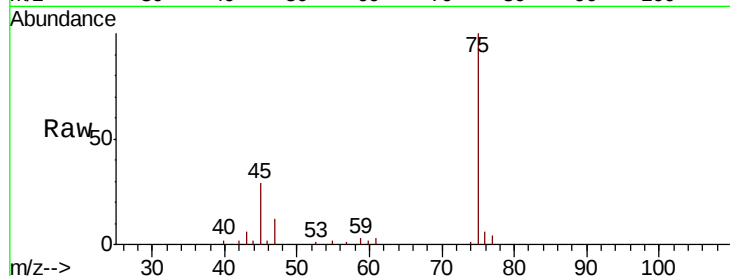
ClientSampleId :

Tot Ion: 43 Resp: 8376

Ion Ratio Lower Upper

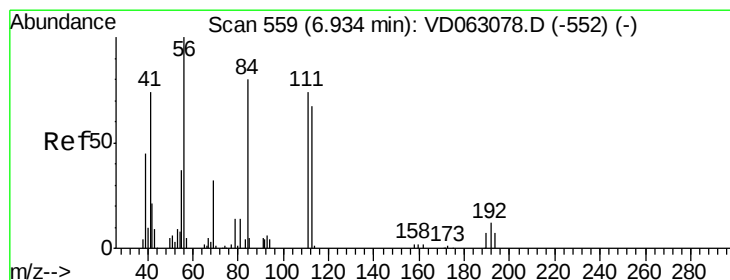
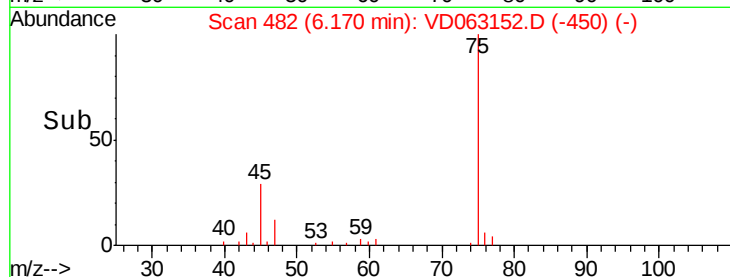
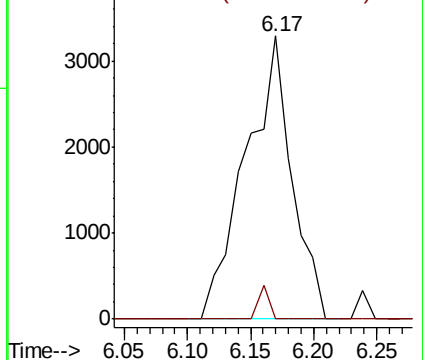
43 100

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



#31

Cyclohexane

Concen: 2.041 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

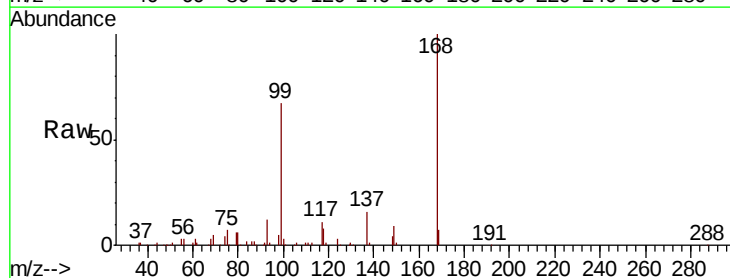
Tgt Ion: 56 Resp: 21665

Ion Ratio Lower Upper

56 100

69 173.5 25.3 37.9#

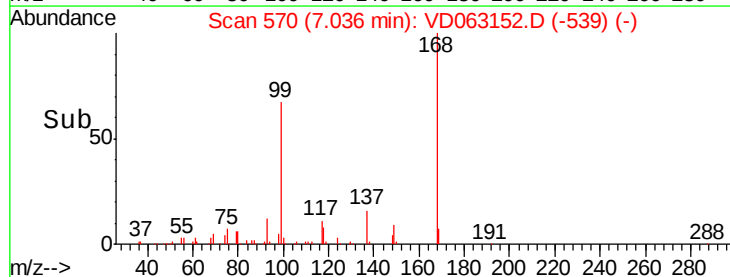
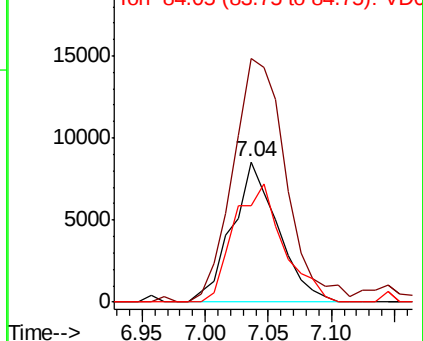
84 68.6 64.2 96.4

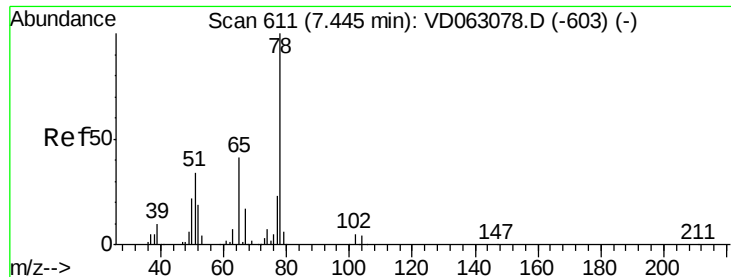


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 36.132 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

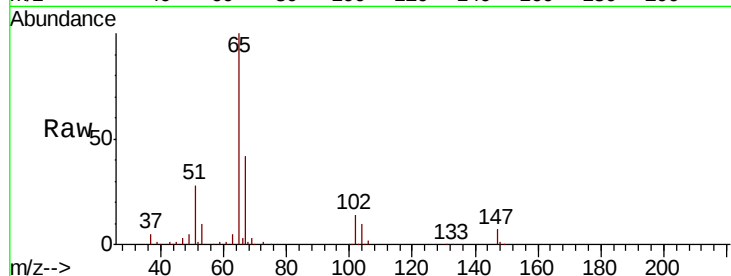
ClientSampleId :

Tot Ion: 65 Resp: 402891

Ion Ratio Lower Upper

65 100

67 42.0 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

150000

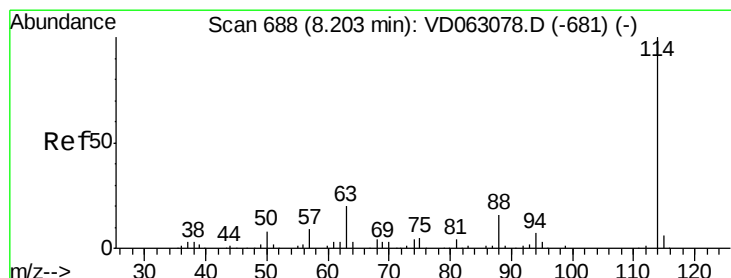
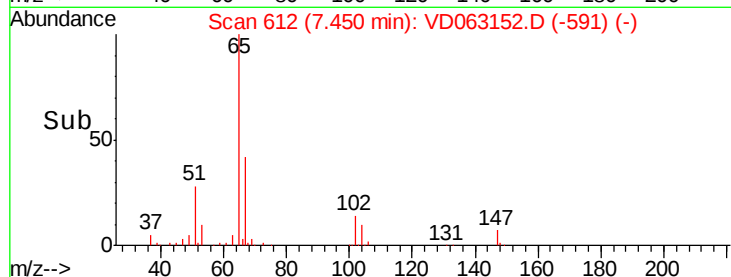
100000

50000

0

Time-->

7.30 7.40 7.50 7.60 7.70



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

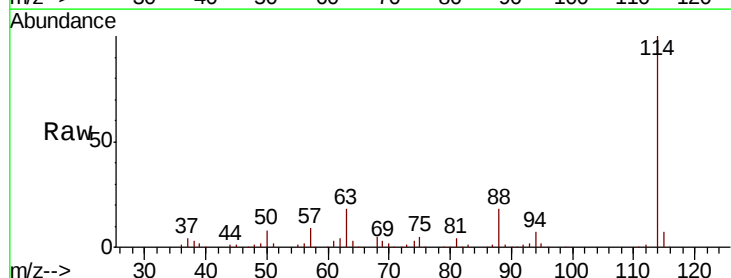
Tgt Ion: 114 Resp: 1133048

Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.6

88 18.4 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

300000

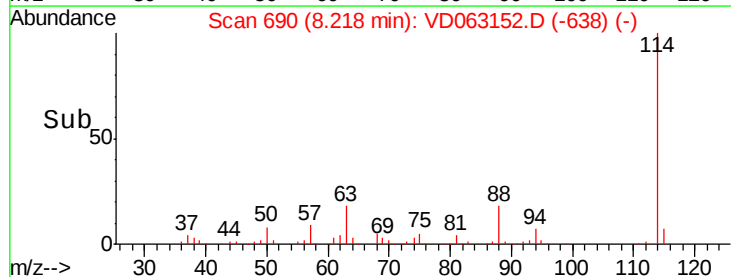
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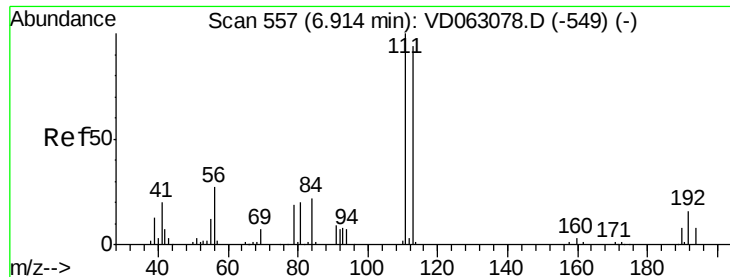
100000

0

Time-->

8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 39.207 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :
MSVOA_D
ClientSampleId :

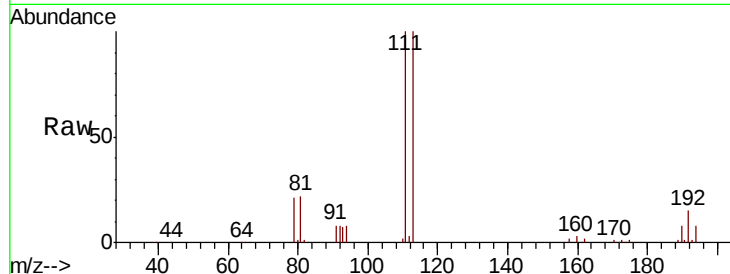
Tot Ion:113 Resp: 442470

Ion Ratio Lower Upper

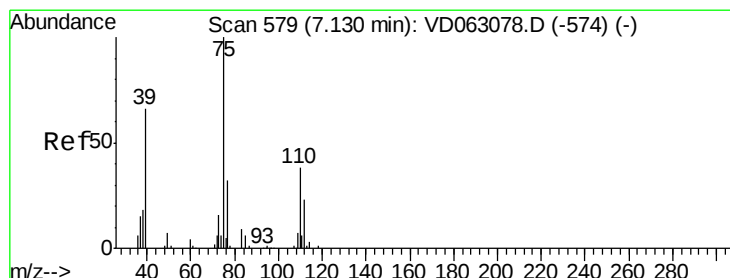
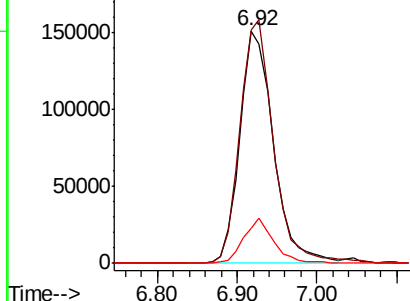
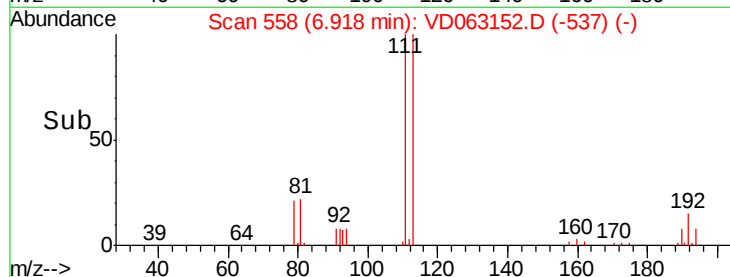
113 100

111 100.4 84.8 127.2

192 14.9 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: 5.126 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

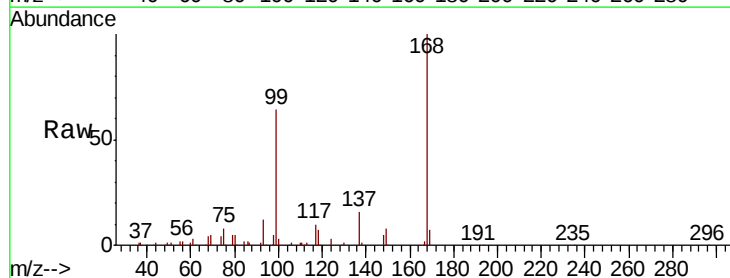
Tgt Ion: 75 Resp: 65317

Ion Ratio Lower Upper

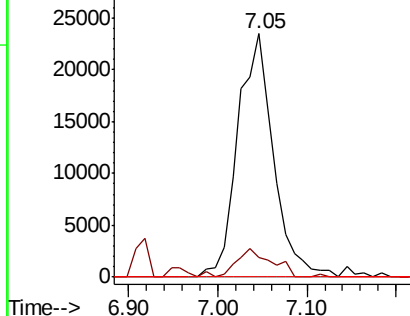
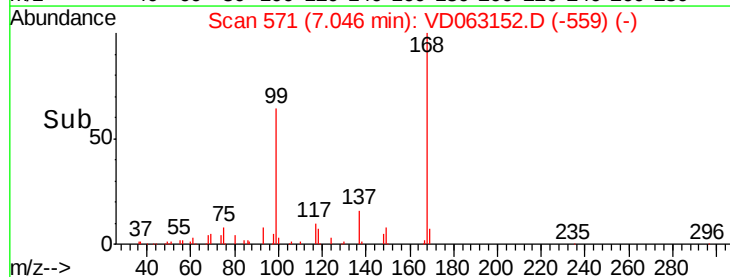
75 100

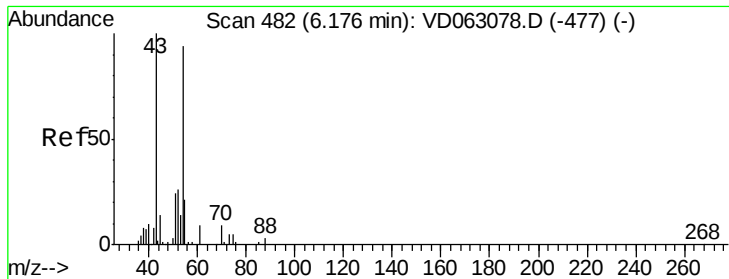
110 7.9 18.9 56.5#

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

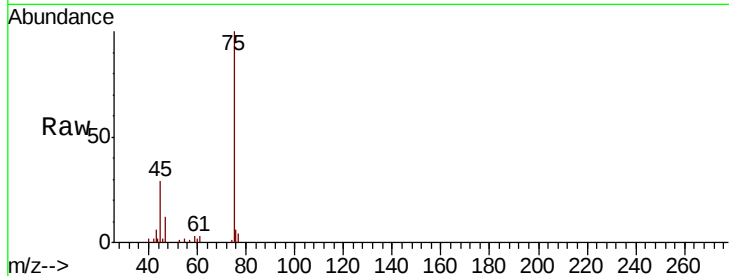




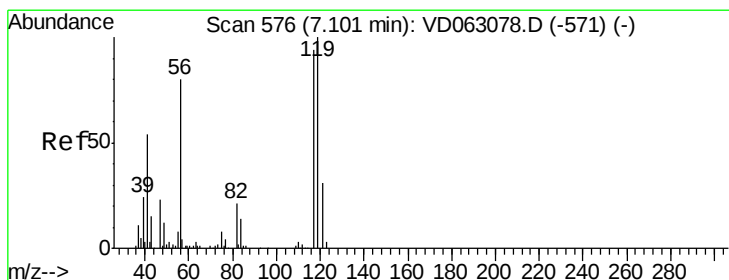
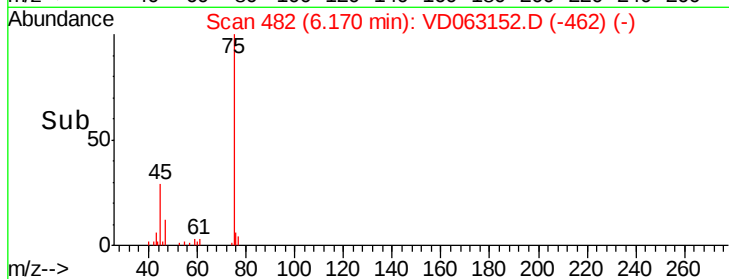
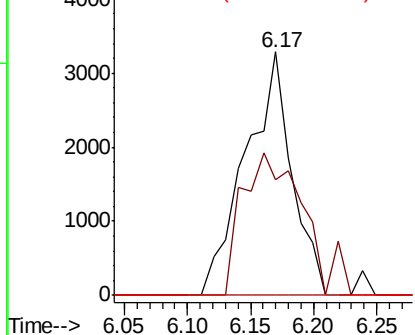
#37
Ethyl Acetate
Concen: 1.536 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.01 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 8376
Ion Ratio Lower Upper
43 100
61 47.5 10.6 16.0#
70 0.0 6.6 9.8#

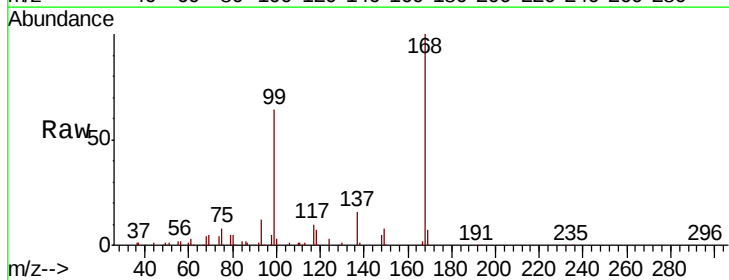


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

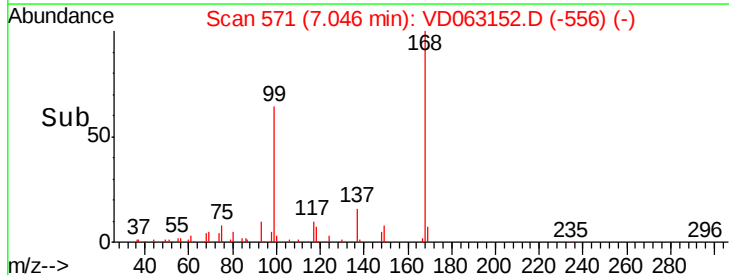
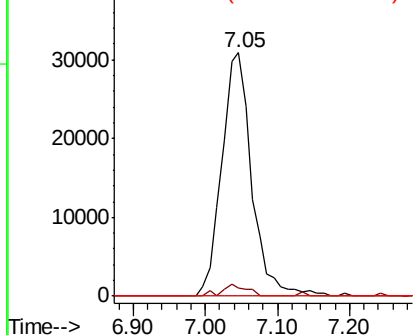


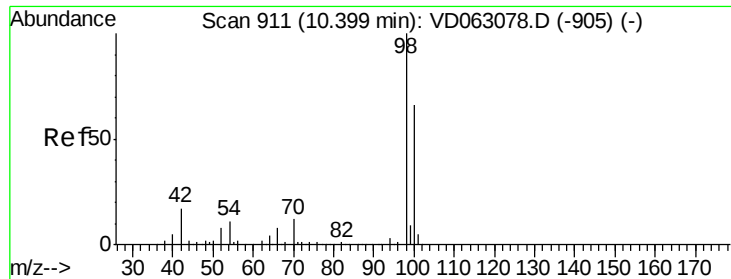
#38
Carbon Tetrachloride
Concen: 4.596 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

Tgt Ion: 117 Resp: 89000
Ion Ratio Lower Upper
117 100
119 3.1 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

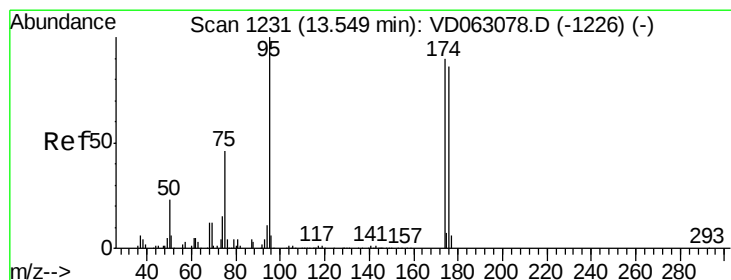
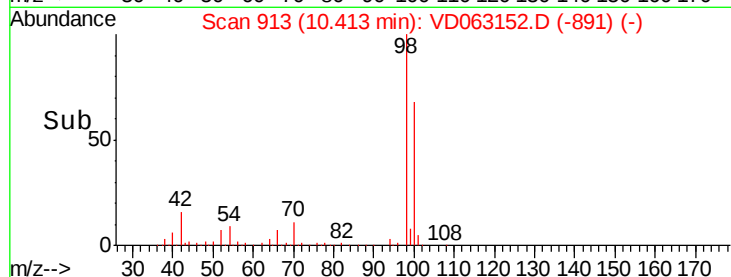
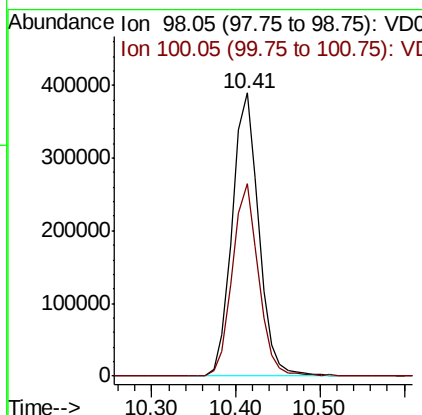
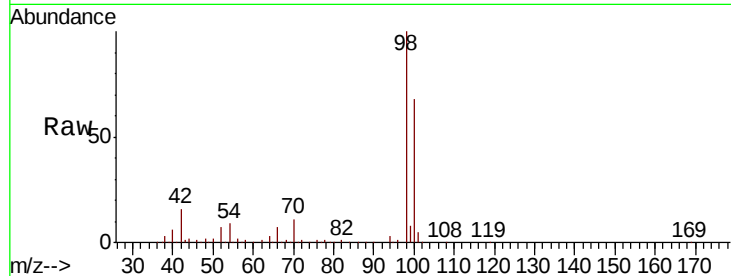




#50
Toluene-d8
Concen: 35.286 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

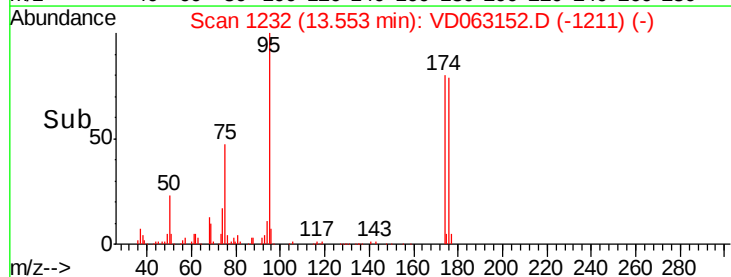
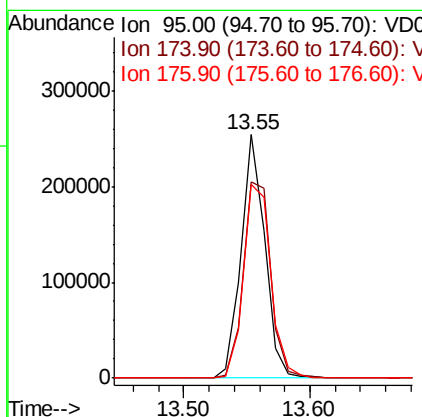
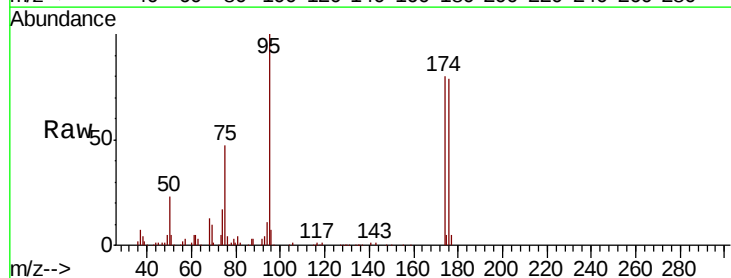
Instrument :
MSVOA_D
ClientSampleId :

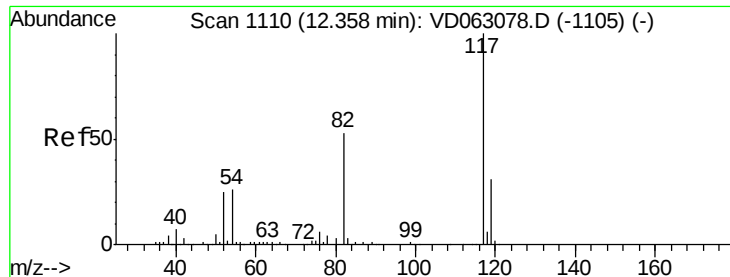
Tot Ion: 98 Resp: 855385
Ion Ratio Lower Upper
98 100
100 68.1 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 29.321 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

Tgt Ion: 95 Resp: 328828
Ion Ratio Lower Upper
95 100
174 80.5 0.0 180.6
176 79.4 0.0 172.2

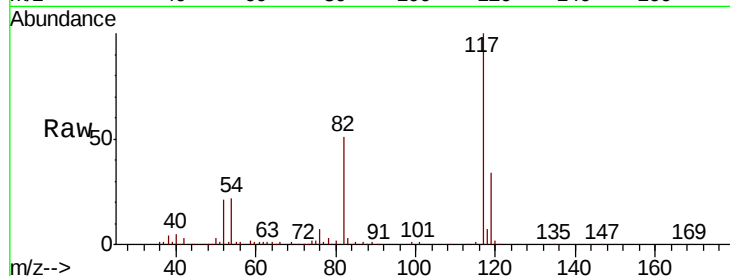




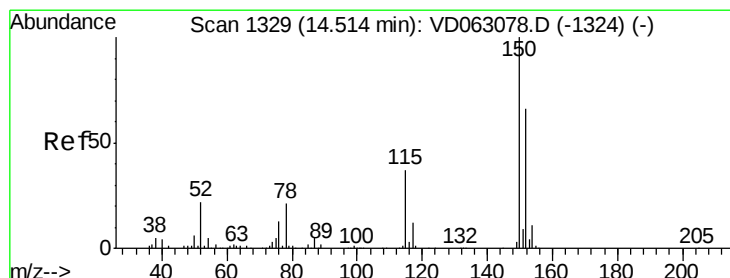
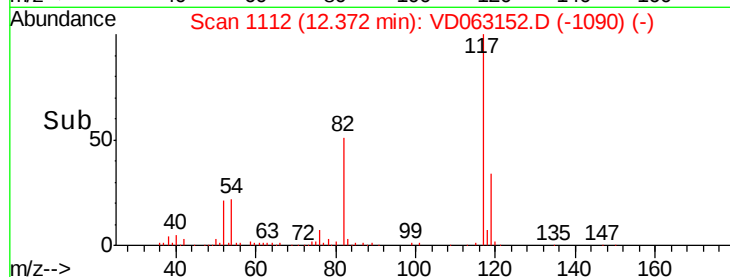
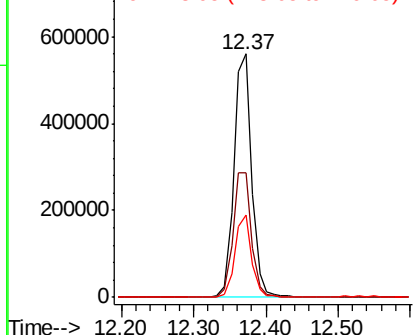
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 959215
Ion Ratio Lower Upper
117 100
82 51.2 42.3 63.5
119 33.8 25.2 37.8

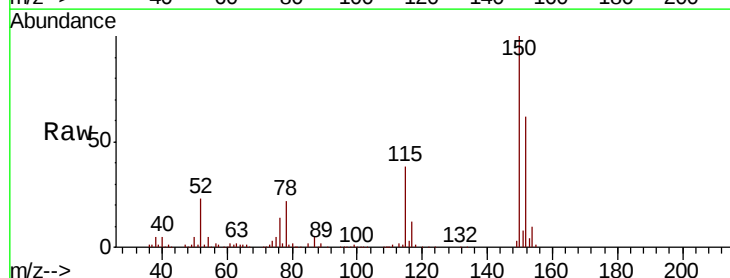


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

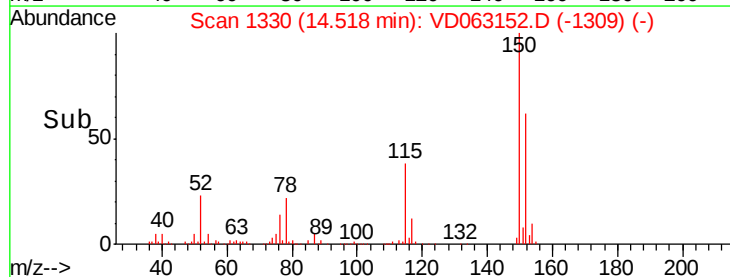
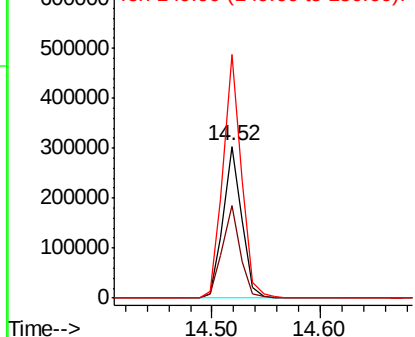


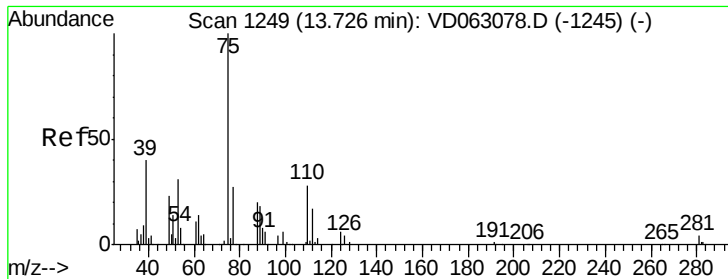
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063152.D
Acq: 19 Jul 2019 14:30

Tgt Ion:152 Resp: 364775
Ion Ratio Lower Upper
152 100
115 60.7 28.9 86.8
150 160.6 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: 21.589 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

Instrument :

MSVOA_D

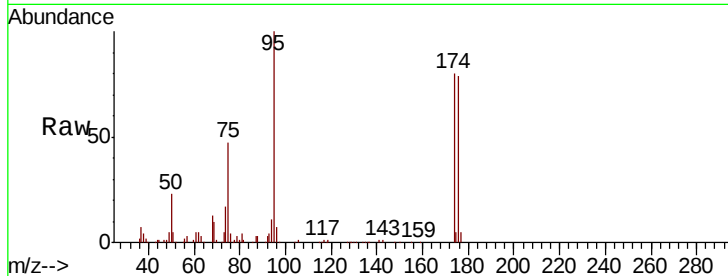
ClientSampled :

Tot Ion: 75 Resp: 121144

Ion Ratio Lower Upper

75 100

77 0.9 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

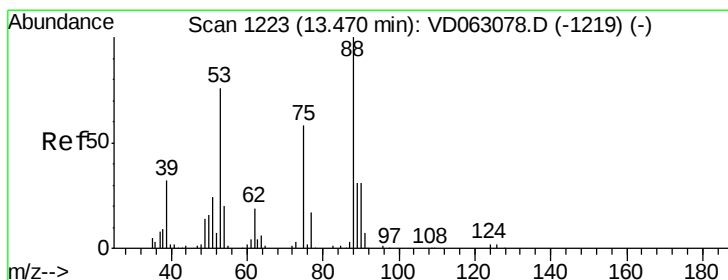
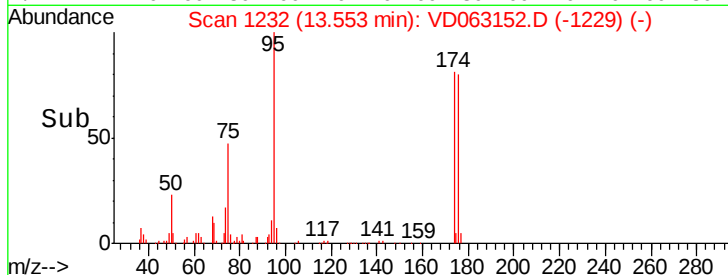
13.55

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 107.399 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063152.D

Acq: 19 Jul 2019 14:30

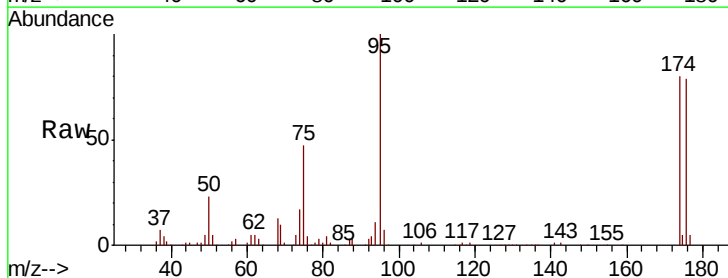
Tgt Ion: 75 Resp: 158700

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



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

13.55

150000

100000

50000

0

Time-->

