

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063153.D
 Acq On : 19 Jul 2019 14:57
 Operator : VA/AP
 Sample : K3835-04RE
 Misc : 6.49g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-2(10-12)RE

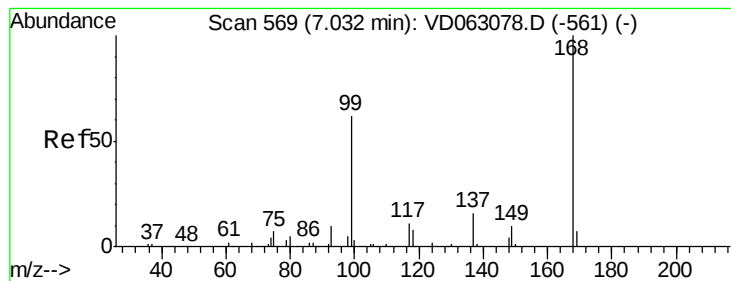
Quant Time: Jul 20 05:01:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	872362	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1302291	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1120161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	624182	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	358101	32.95	ug/l	0.00
Spiked Amount			Recovery	=	65.90%	
35) Dibromofluoromethane	6.93	113	400050	30.84	ug/l	0.02
Spiked Amount			Recovery	=	61.68%	
50) Toluene-d8	10.41	98	842921	30.25	ug/l	0.00
Spiked Amount			Recovery	=	60.50%	
62) 4-Bromofluorobenzene	13.56	95	400100	31.04	ug/l	0.00
Spiked Amount			Recovery	=	62.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1136	Below Cal	#	63
3) Chloromethane	1.75	50	611	Below Cal	#	48
5) Bromomethane	2.14	94	1494	Below Cal	#	13
11) Tert butyl alcohol	4.08	59	758	1.209	ug/l #	77
13) Acrolein	3.07	56	212	1.120	ug/l #	1
16) Acetone	3.23	43	8026	3.058	ug/l #	62
18) Methyl Acetate	3.61	43	281	Below Cal	#	63
31) Cyclohexane	7.05	56	19587	1.893	ug/l #	8
36) 1,1-Dichloropropene	7.05	75	68539	4.680	ug/l #	48
38) Carbon Tetrachloride	7.05	117	88084	3.958	ug/l #	15
49) 1,4-Dioxane	9.03	88	201	3.950	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.56	75	184680	73.040	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

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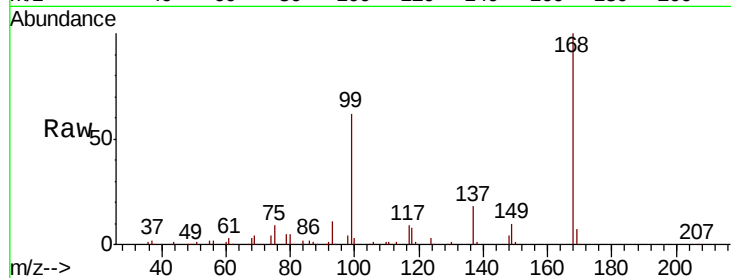
SB-2(10-12)RE

Tot Ion:168 Resp: 872362

Ion Ratio Lower Upper

168 100

99 61.9 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

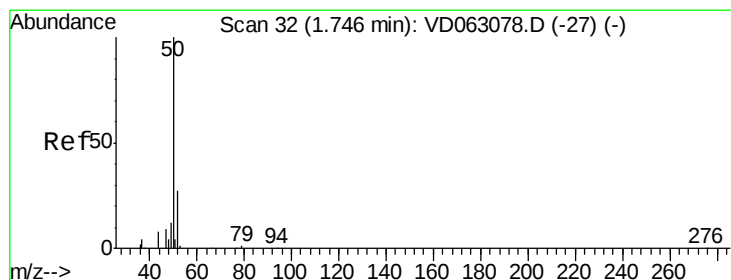
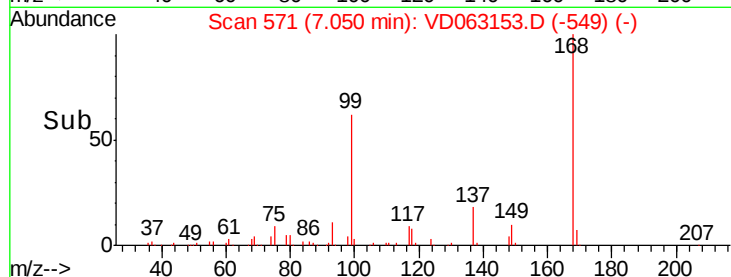
200000

100000

0

Time-->

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: VD063153.D

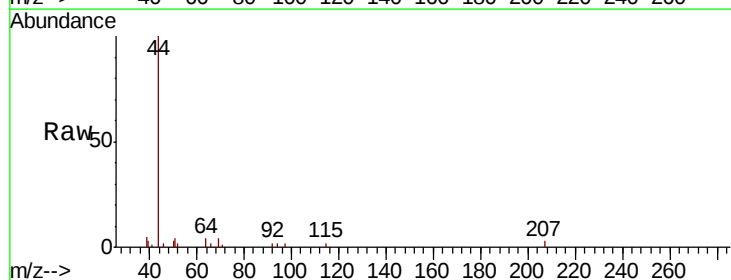
Acq: 19 Jul 2019 14:57

Tgt Ion: 50 Resp: 611

Ion Ratio Lower Upper

50 100

52 53.4 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

600

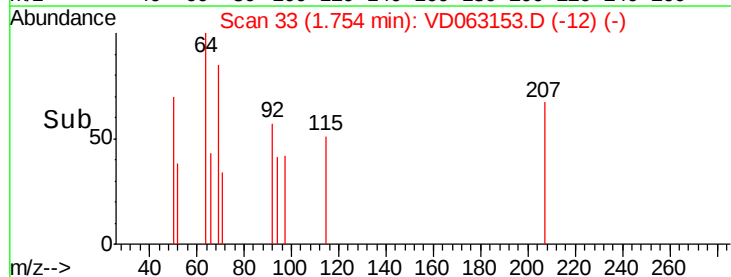
400

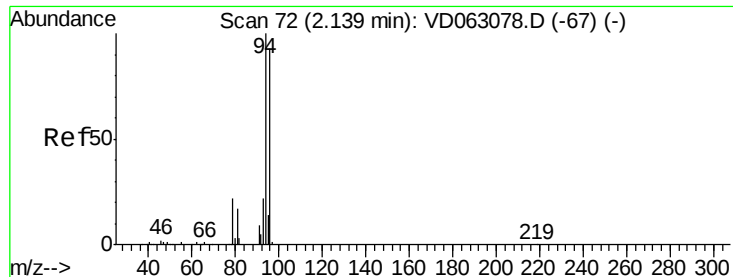
200

0

Time-->

1.74 1.76 1.78





#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

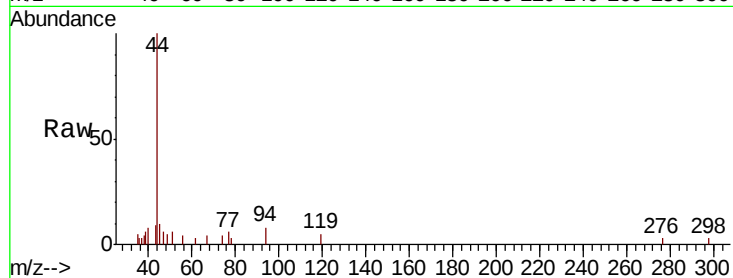
Tot Ion: 94 Resp: 1494

Ion Ratio Lower Upper

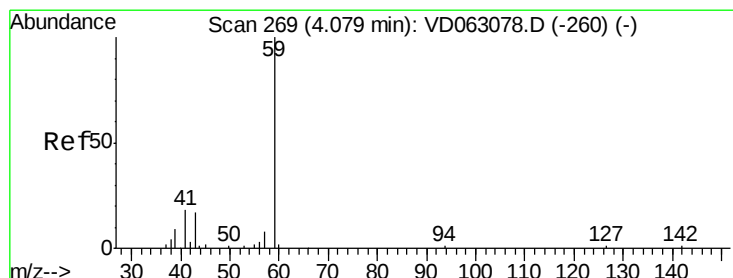
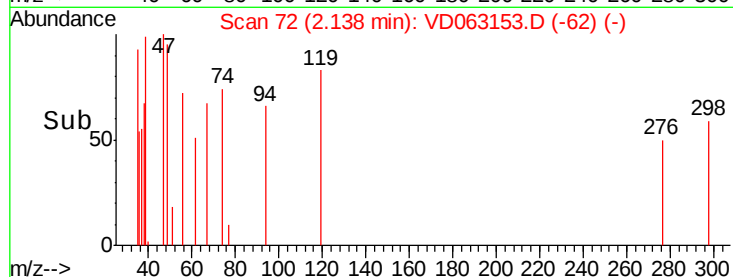
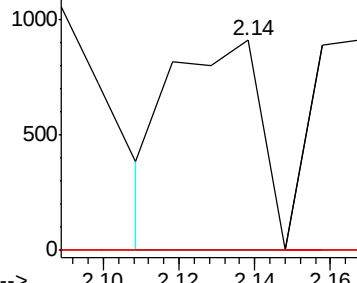
94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



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



#11

Tert butyl alcohol

Concen: 1.209 ug/l

RT: 4.08 min Scan# 269

Delta R.T. -0.00 min

Lab File: VD063153.D

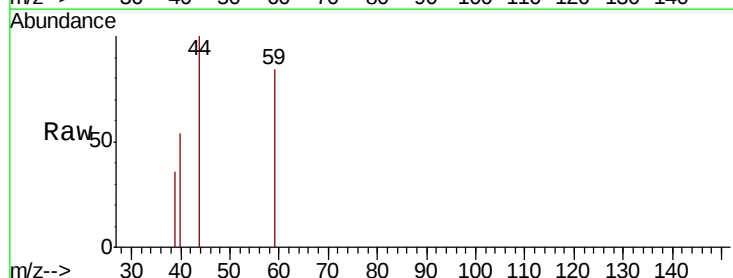
Acq: 19 Jul 2019 14:57

Tgt Ion: 59 Resp: 758

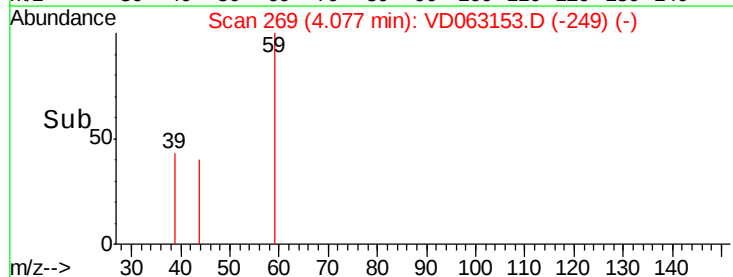
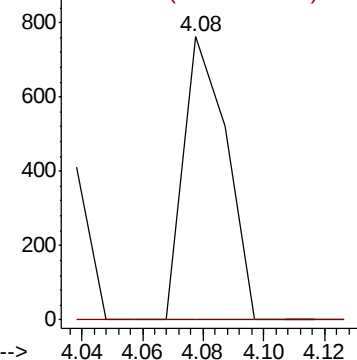
Ion Ratio Lower Upper

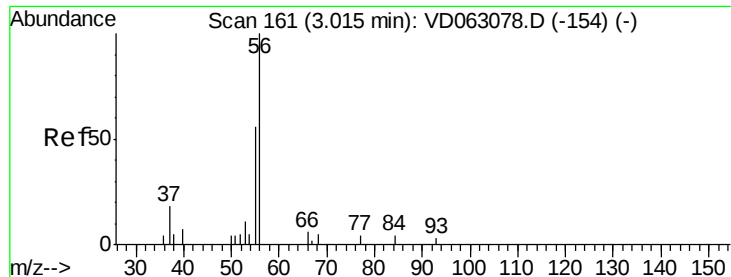
59 100

57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.120 ug/l

RT: 3.07 min Scan# 167

Delta R.T. 0.06 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

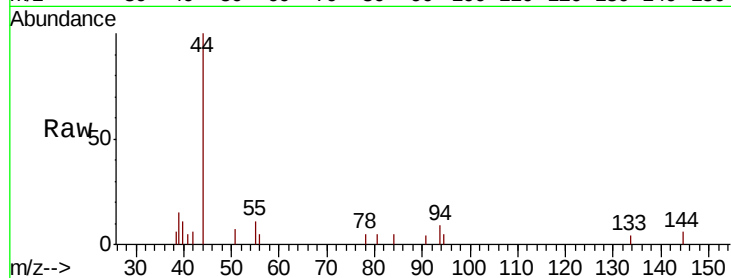
SB-2(10-12)RE

Tot Ion: 56 Resp: 212

Ion Ratio Lower Upper

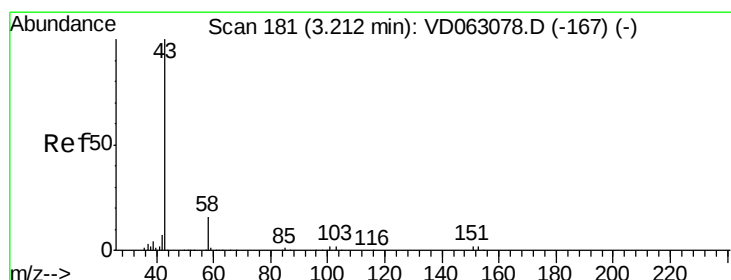
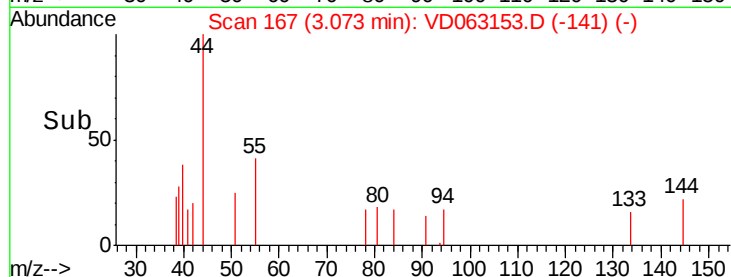
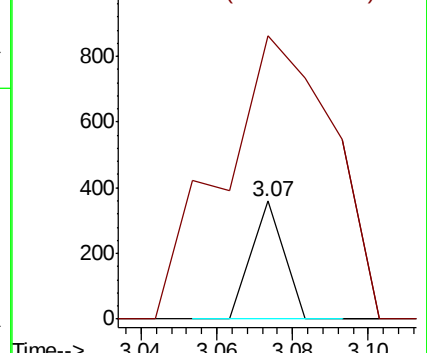
56 100

55 240.1 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: 3.058 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD063153.D

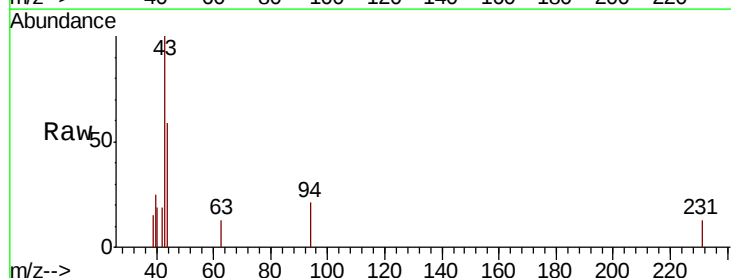
Acq: 19 Jul 2019 14:57

Tgt Ion: 43 Resp: 8026

Ion Ratio Lower Upper

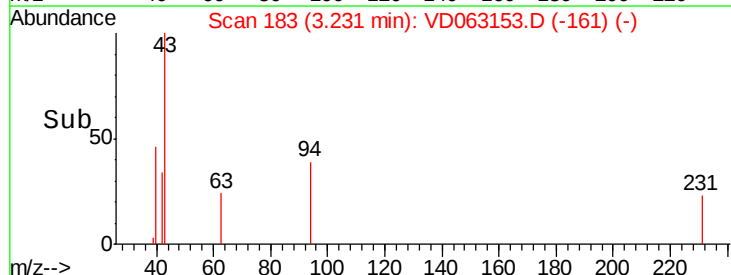
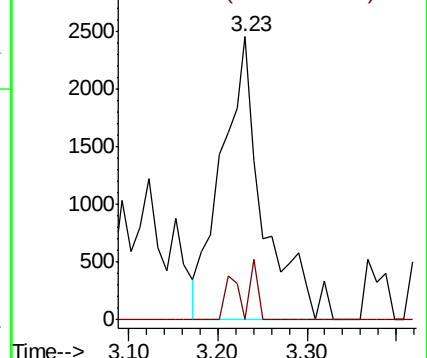
43 100

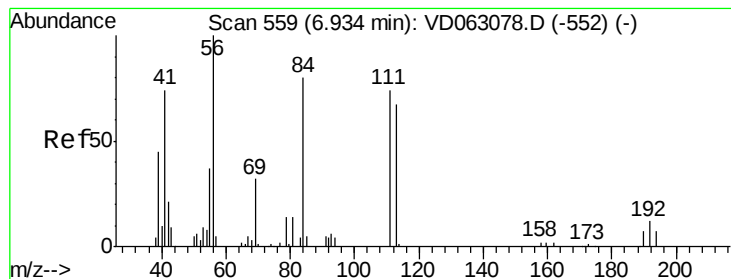
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#31

Cyclohexane

Concen: 1.893 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.12 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

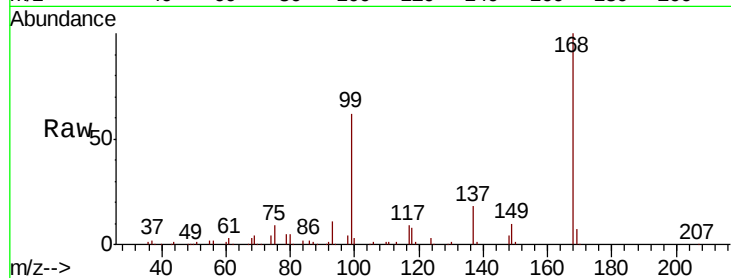
Tot Ion: 56 Resp: 19587

Ion Ratio Lower Upper

56 100

69 212.2 25.3 37.9#

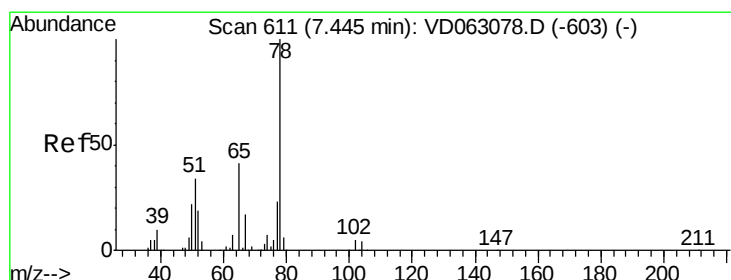
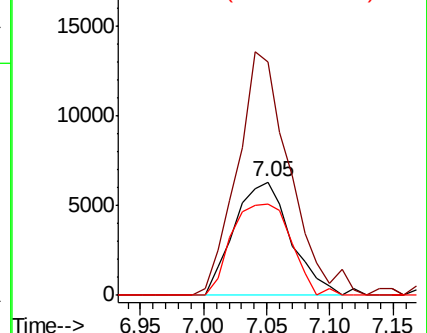
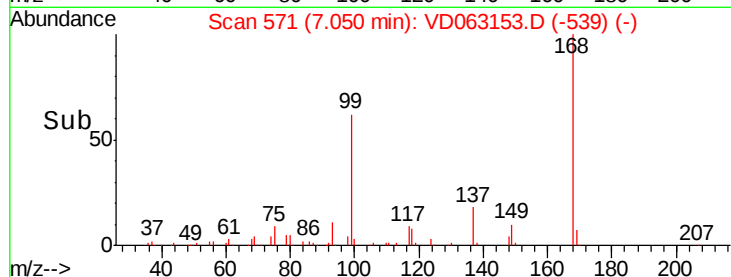
84 80.5 64.2 96.4



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: 32.953 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063153.D

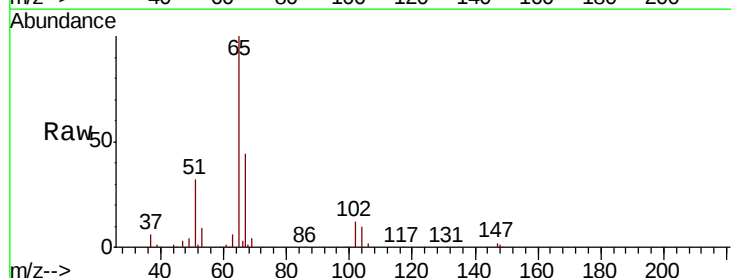
Acq: 19 Jul 2019 14:57

Tgt Ion: 65 Resp: 358101

Ion Ratio Lower Upper

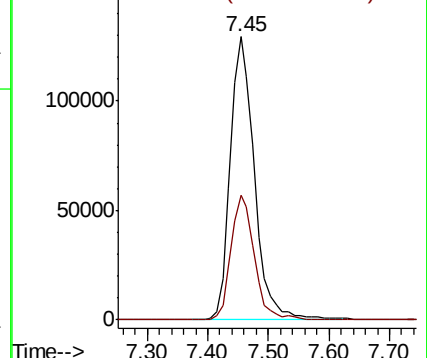
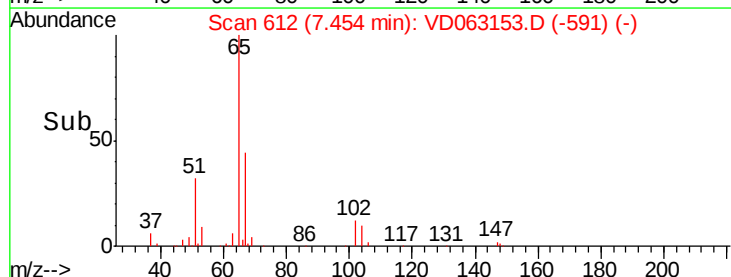
65 100

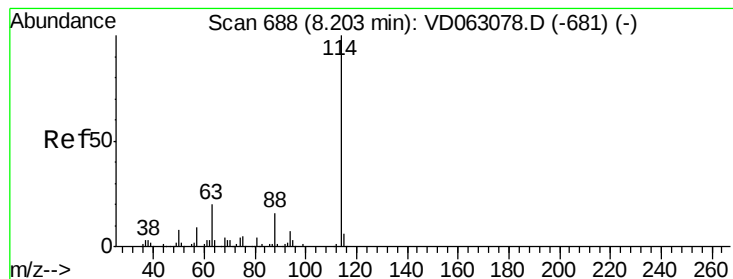
67 44.0 0.0 86.0



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: 8.22 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

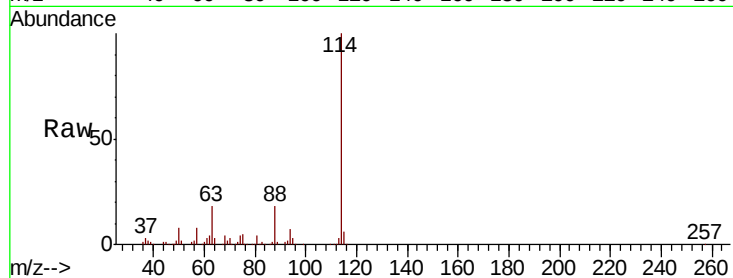
Tot Ion:114 Resp: 1302291

Ion Ratio Lower Upper

114 100

63 18.1 0.0 40.6

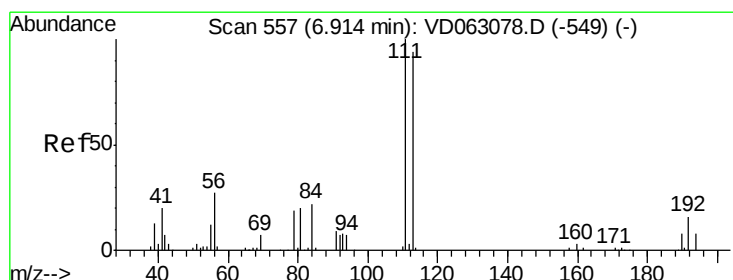
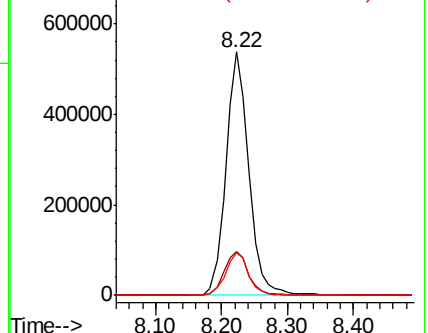
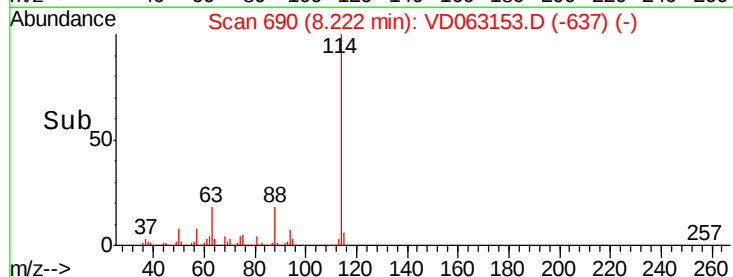
88 17.7 0.0 32.6



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: 30.842 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.02 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

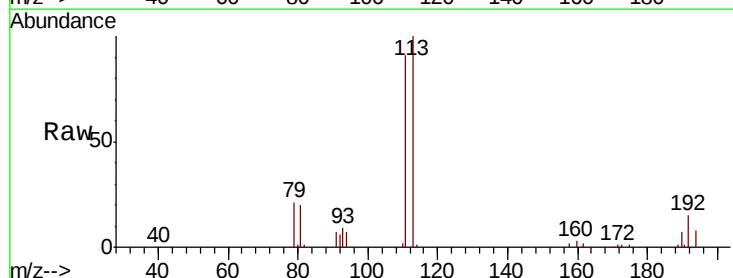
Tgt Ion:113 Resp: 400050

Ion Ratio Lower Upper

113 100

111 91.2 84.8 127.2

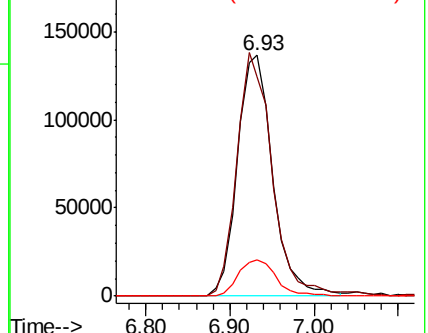
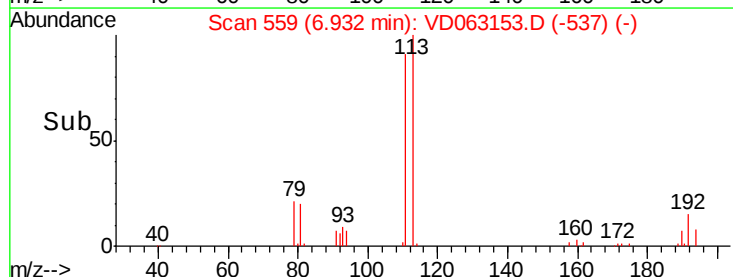
192 15.3 13.4 20.0

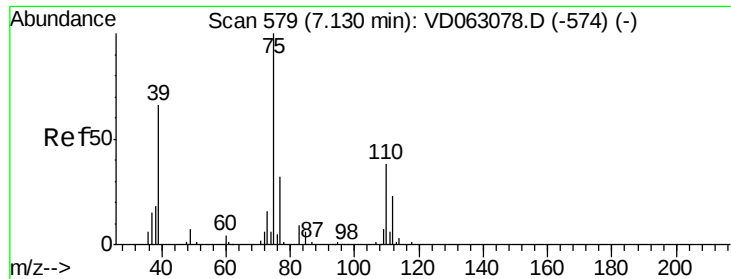


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.680 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

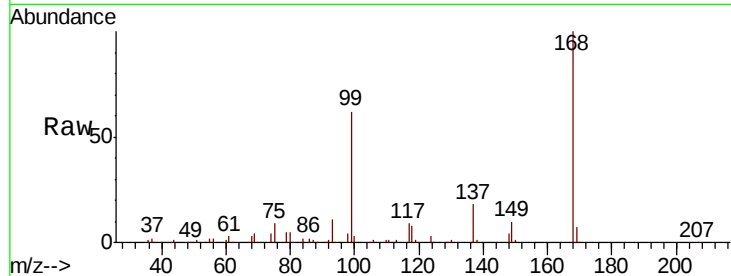
Tot Ion: 75 Resp: 68539

Ion Ratio Lower Upper

75 100

110 9.4 18.9 56.5#

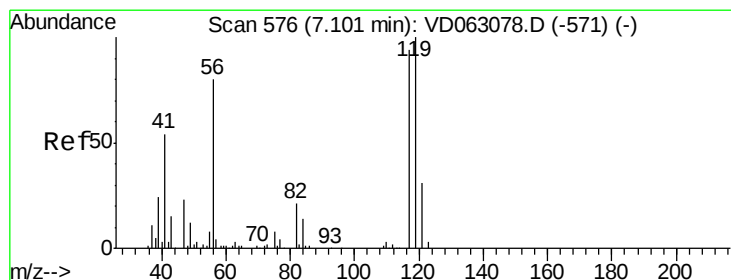
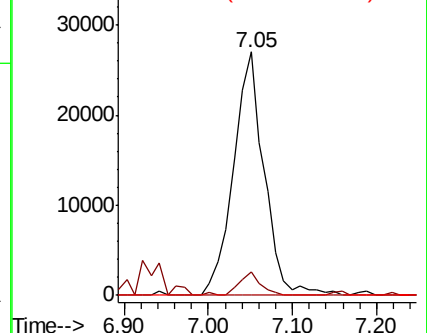
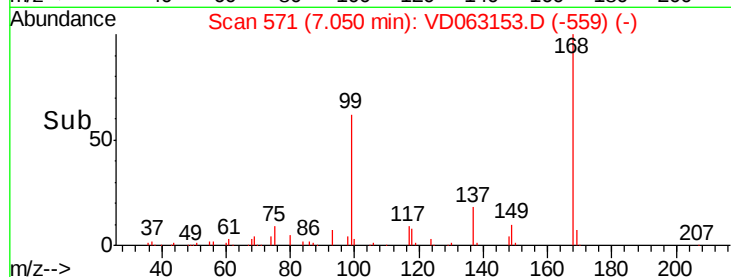
77 0.0 25.2 37.8#



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: 3.958 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

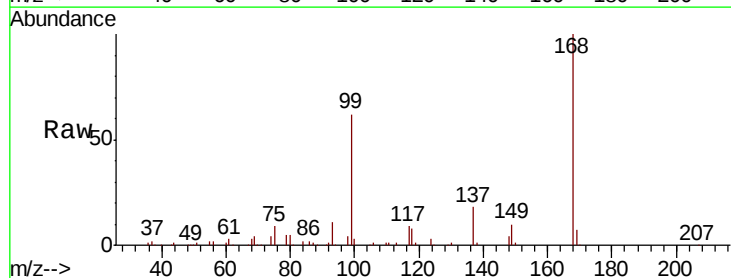
Tgt Ion: 117 Resp: 88084

Ion Ratio Lower Upper

117 100

119 6.6 80.0 120.0#

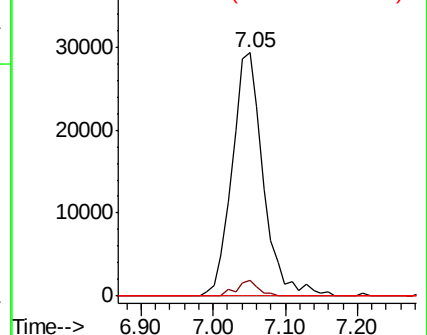
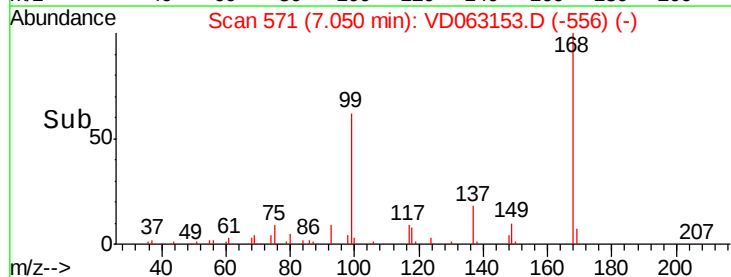
121 0.0 25.0 37.4#

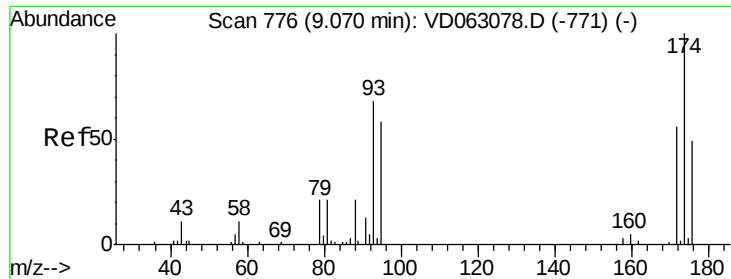


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

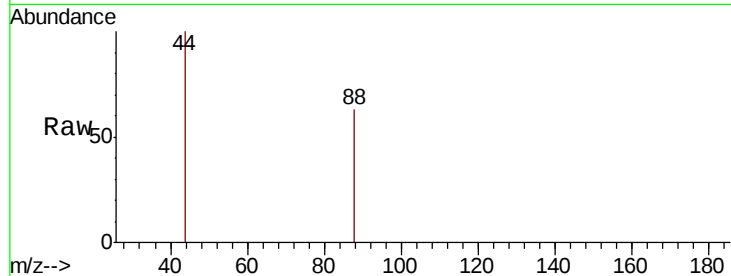




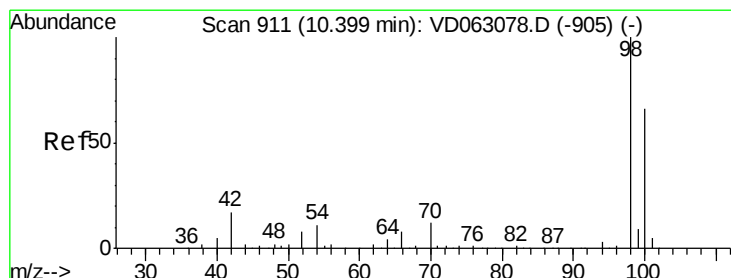
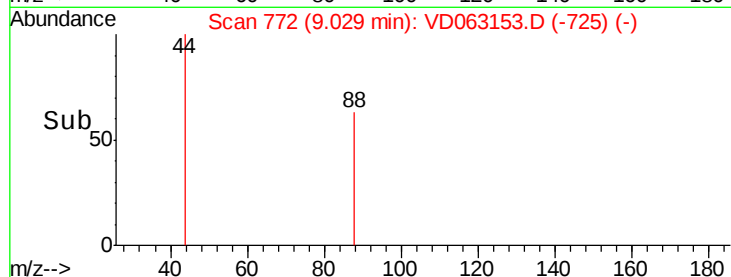
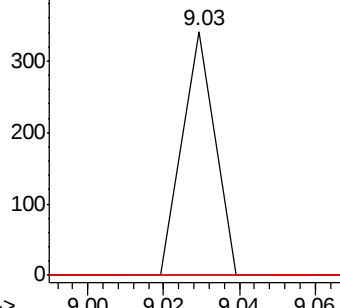
#49
1,4-Dioxane
Concen: 3.950 ug/l
RT: 9.03 min Scan# 772
Delta R.T. -0.04 min
Lab File: VD063153.D
Acq: 19 Jul 2019 14:57

Instrument :
MSVOA_D
ClientSampleId :
SB-2(10-12)RE

Tot Ion: 88 Resp: 201
Ion Ratio Lower Upper
88 100
43 158.7 40.2 60.4#
58 0.0 41.6 62.4#

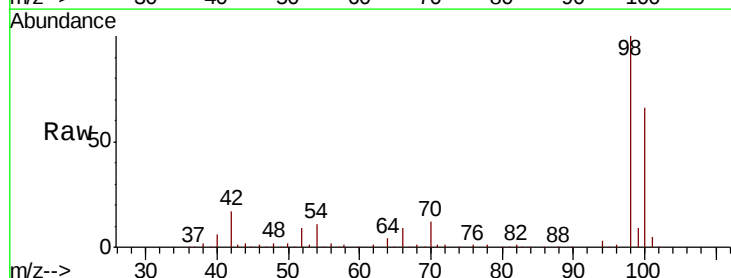


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

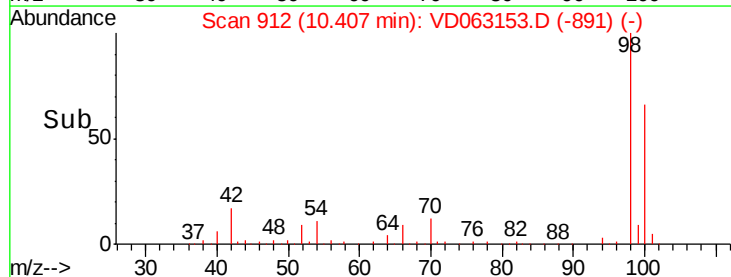
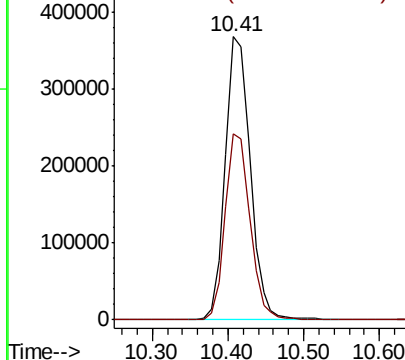


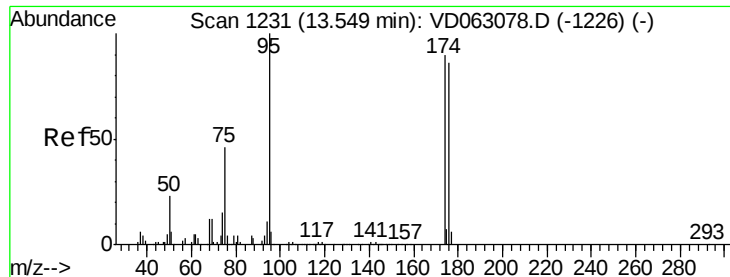
#50
Toluene-d8
Concen: 30.253 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063153.D
Acq: 19 Jul 2019 14:57

Tgt Ion: 98 Resp: 842921
Ion Ratio Lower Upper
98 100
100 65.7 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: 31.040 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

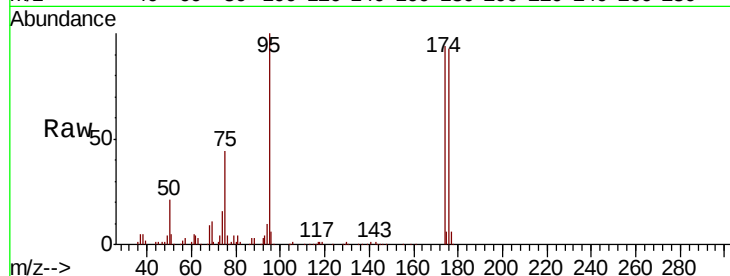
Tot Ion: 95 Resp: 400100

Ion Ratio Lower Upper

95 100

174 94.3 0.0 180.6

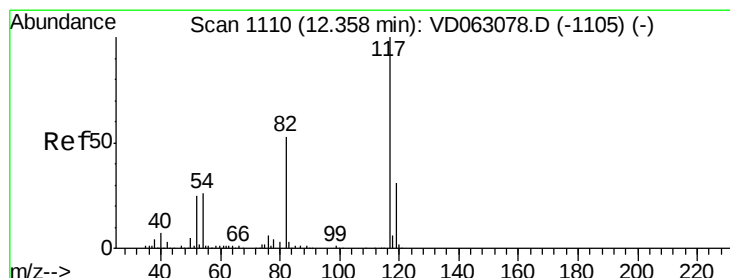
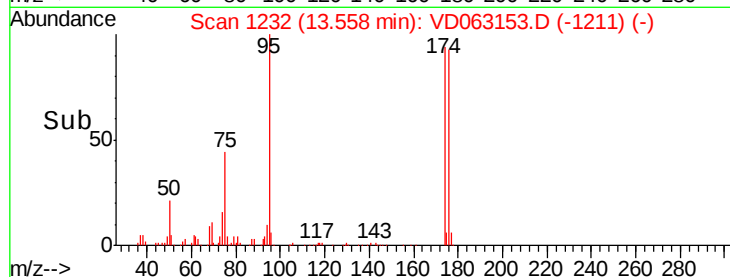
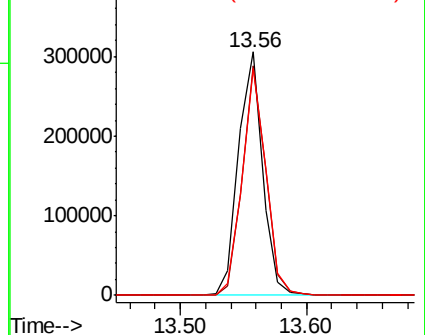
176 93.2 0.0 172.2



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# 1111

Delta R.T. 0.01 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

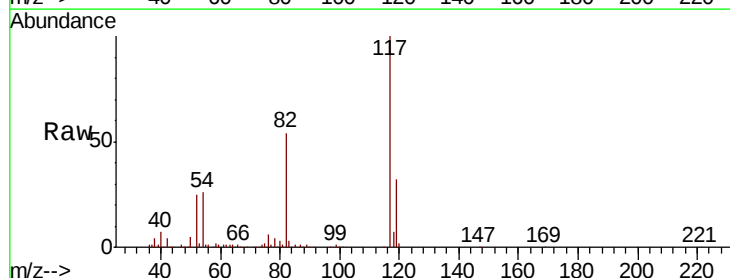
Tgt Ion: 117 Resp: 1120161

Ion Ratio Lower Upper

117 100

82 54.3 42.3 63.5

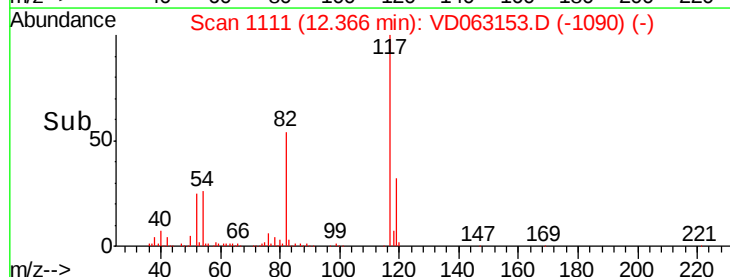
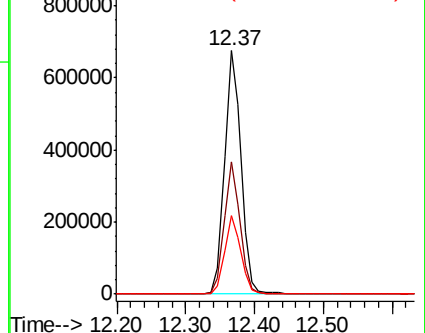
119 32.0 25.2 37.8

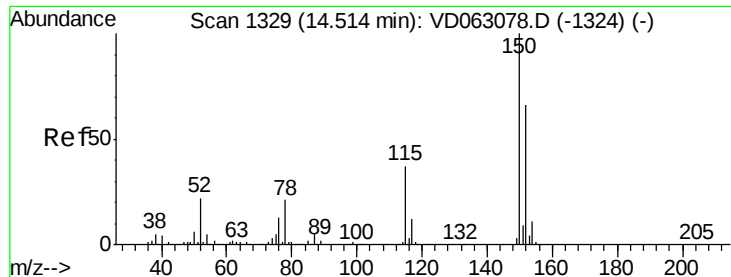


Abundance Ion 116.95 (116.65 to 117.65): V

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. 0.01 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

Instrument :

MSVOA_D

ClientSampleId :

SB-2(10-12)RE

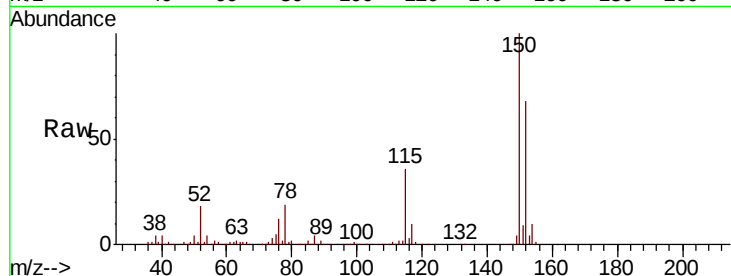
Tot Ion:152 Resp: 624182

Ion Ratio Lower Upper

152 100

115 53.5 28.9 86.8

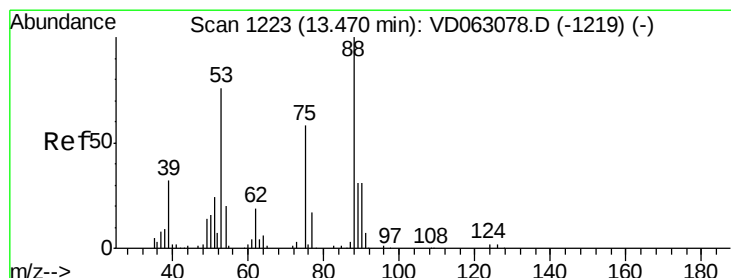
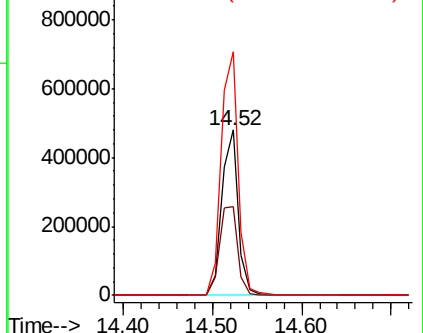
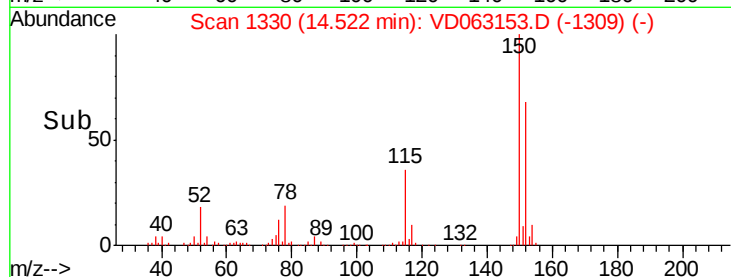
150 147.5 0.0 313.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 73.040 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063153.D

Acq: 19 Jul 2019 14:57

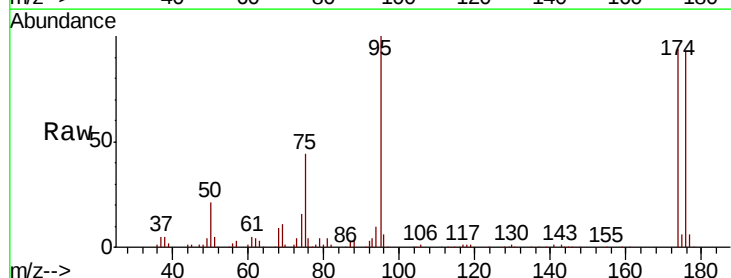
Tgt Ion: 75 Resp: 184680

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

