

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080319\
 Data File : VD063359.D
 Acq On : 3 Aug 2019 14:13
 Operator : VA/AP
 Sample : K4136-04
 Misc : 5.49g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C3-(0-1)

Quant Time: Aug 04 06:07:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	977403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1318512	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	929006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	331137	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	571225	52.67	ug/l	0.01
Spiked Amount			Recovery	=	105.34%	
35) Dibromofluoromethane	6.92	113	633274	56.25	ug/l	0.01
Spiked Amount			Recovery	=	112.50%	
50) Toluene-d8	10.41	98	1266653	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	13.56	95	409324	35.65	ug/l	0.00
Spiked Amount			Recovery	=	71.30%	

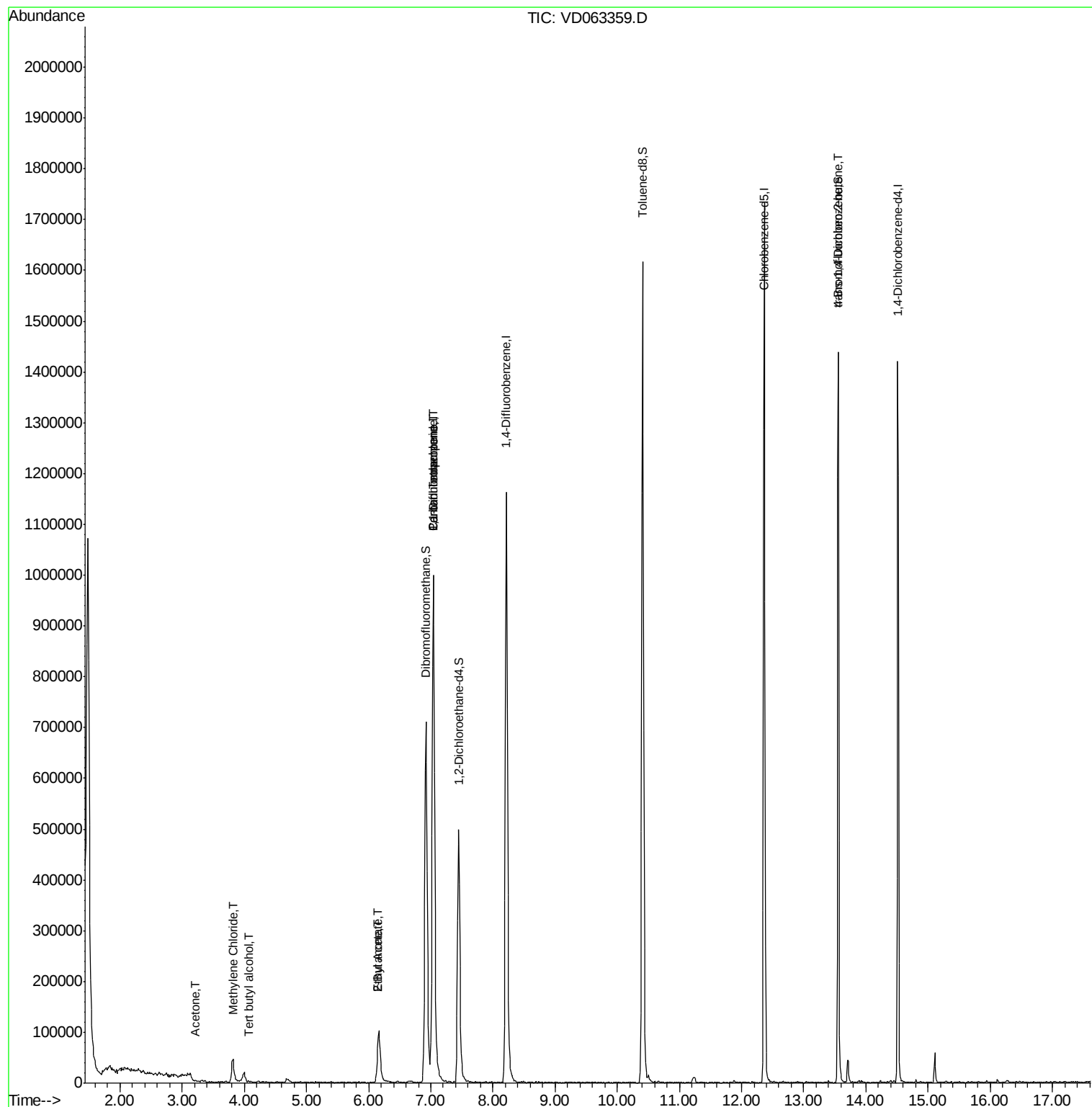
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	3837	8.062	ug/l #	69
16) Acetone	3.22	43	2349	1.112	ug/l #	62
20) Methylene Chloride	3.81	84	28546	3.342	ug/l	95
25) 2-Butanone	6.14	43	6937	3.271	ug/l #	56
36) 1,1-Dichloropropene	7.04	75	72354	6.013	ug/l #	51
37) Ethyl Acetate	6.14	43	6937	1.283	ug/l #	59
38) Carbon Tetrachloride	7.04	117	98835	5.456	ug/l #	13
81) trans-1,4-Dichloro-2-buten	13.56	75	181211	164.075	ug/l #	3

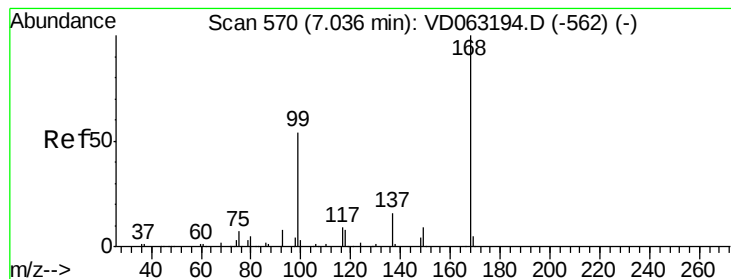
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 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: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

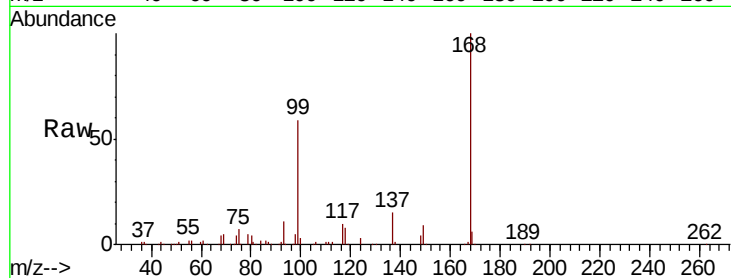
1S-C3-(0-1)

Tgt Ion:168 Resp: 977403

Ion Ratio Lower Upper

168 100

99 59.1 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

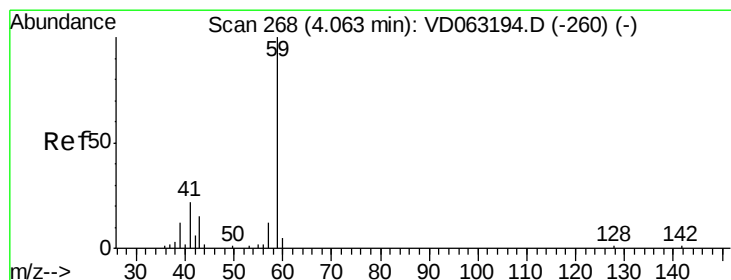
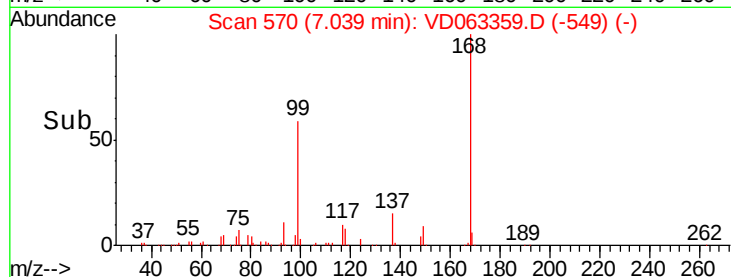
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 8.062 ug/l

RT: 4.08 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063359.D

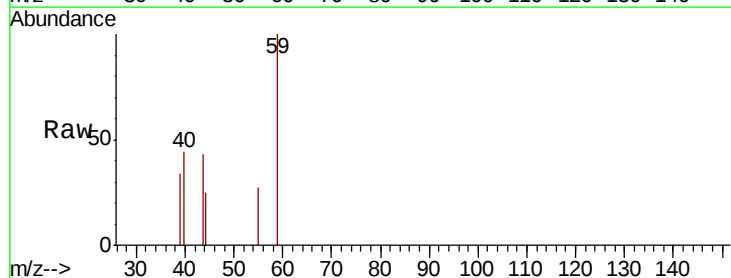
Acq: 3 Aug 2019 14:13

Tgt Ion: 59 Resp: 3837

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.08

3000

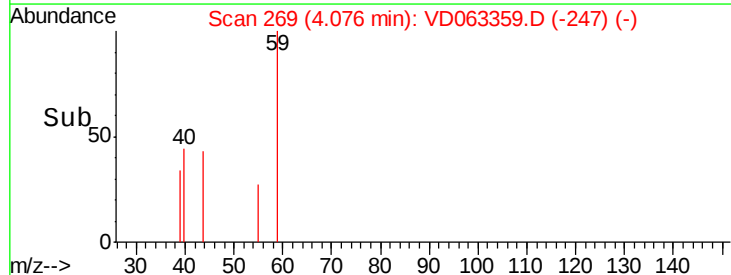
2000

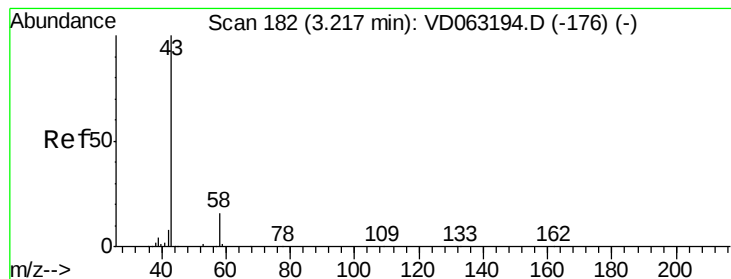
1000

0

Time-->

4.05 4.10 4.15





#16

Acetone

Concen: 1.112 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

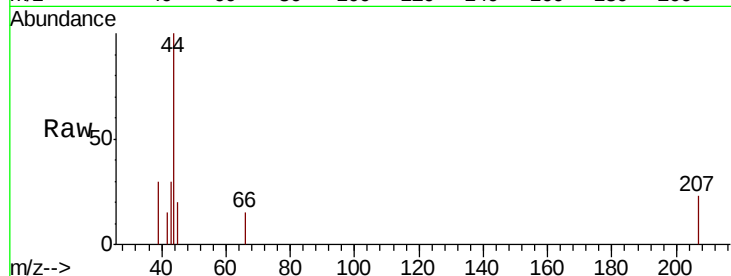
1S-C3-(0-1)

Tgt Ion: 43 Resp: 2349

Ion Ratio Lower Upper

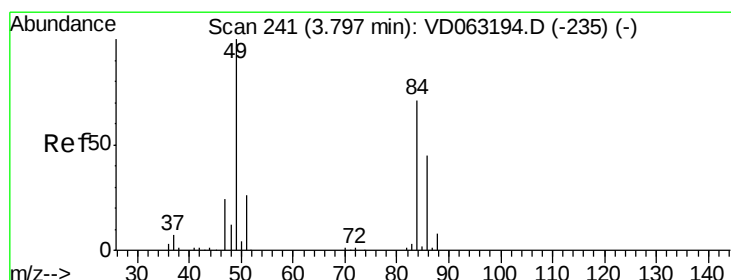
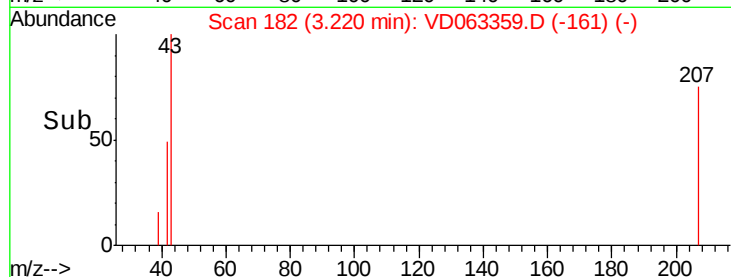
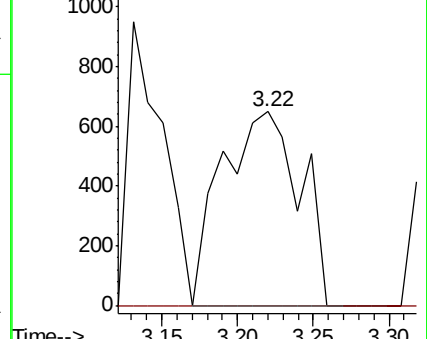
43 100

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



#20

Methylene Chloride

Concen: 3.342 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Tgt Ion: 84 Resp: 28546

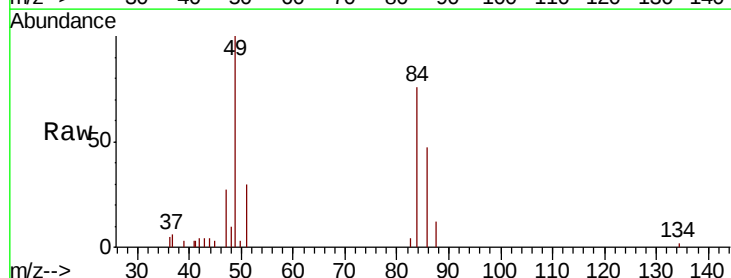
Ion Ratio Lower Upper

84 100

49 132.2 112.5 168.7

51 40.2 29.6 44.4

86 62.2 50.4 75.6

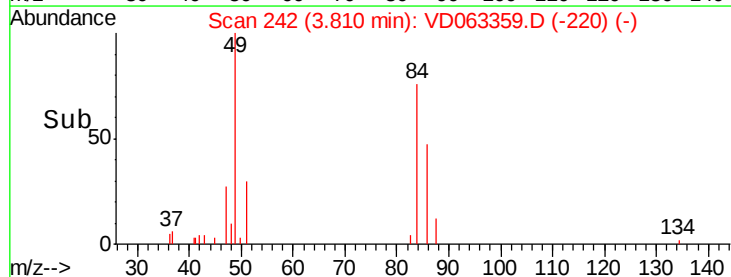
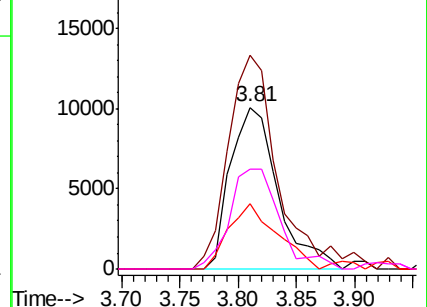


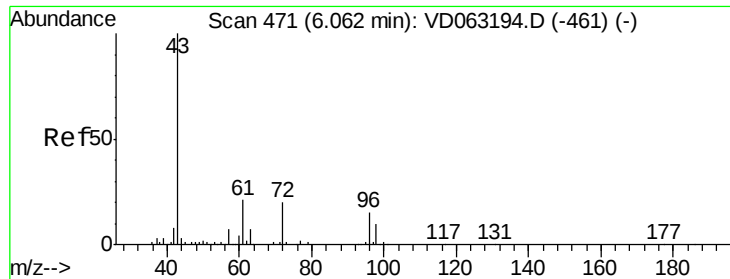
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 3.271 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.08 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

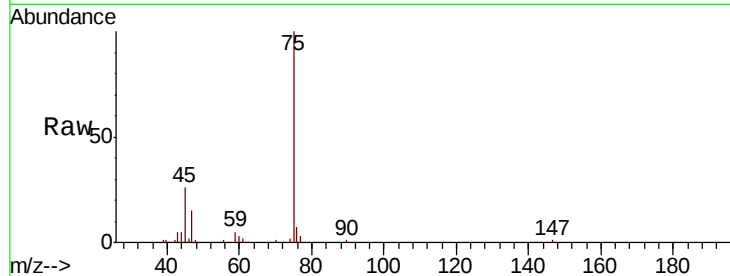
1S-C3-(0-1)

Tgt Ion: 43 Resp: 6937

Ion Ratio Lower Upper

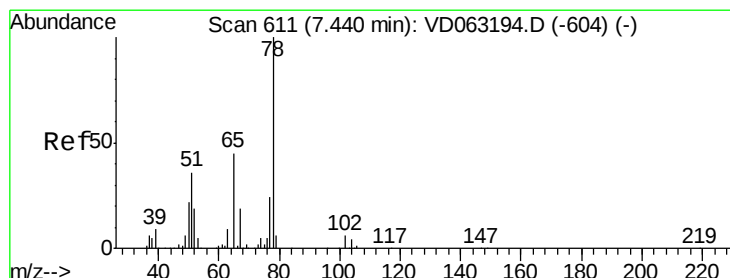
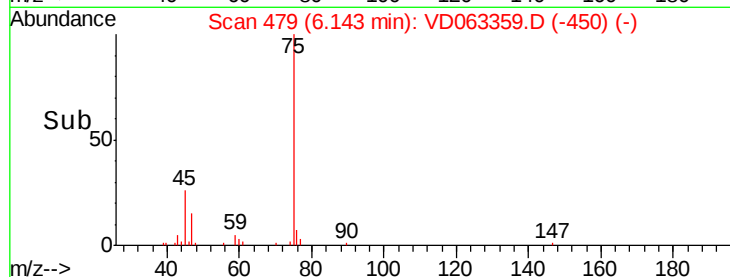
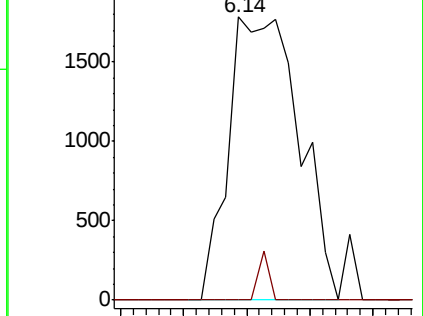
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 52.671 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063359.D

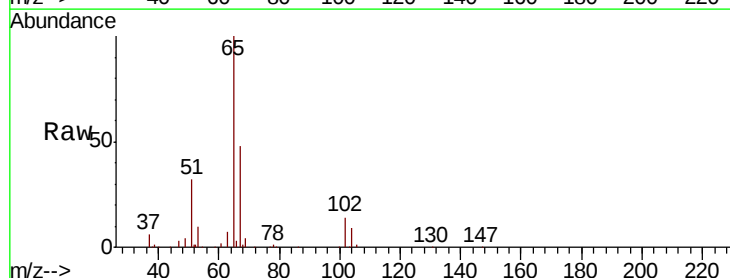
Acq: 3 Aug 2019 14:13

Tgt Ion: 65 Resp: 571225

Ion Ratio Lower Upper

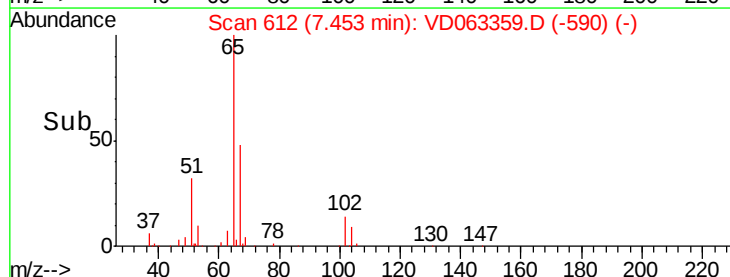
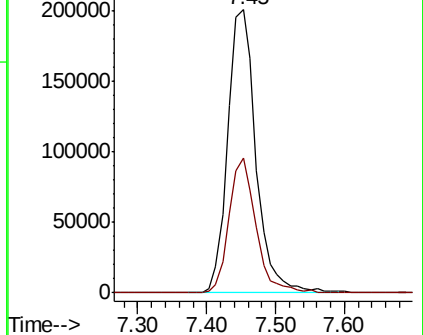
65 100

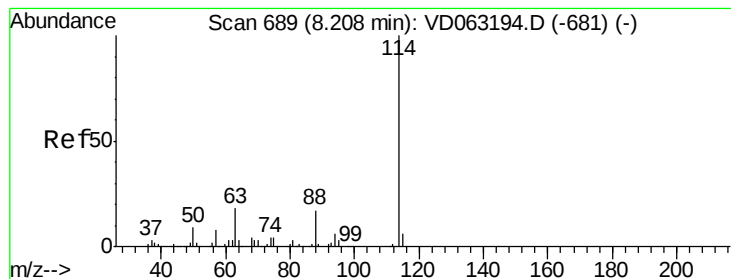
67 47.6 0.0 85.8



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. 0.01 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(0-1)

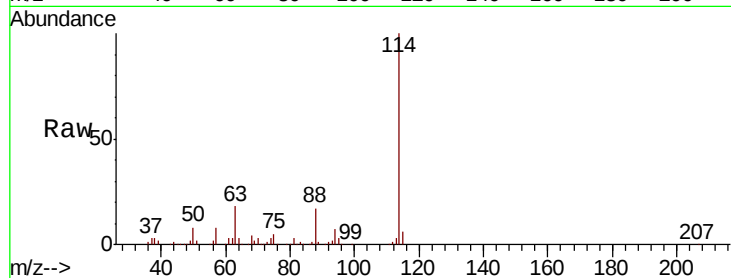
Tgt Ion:114 Resp: 1318512

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.2

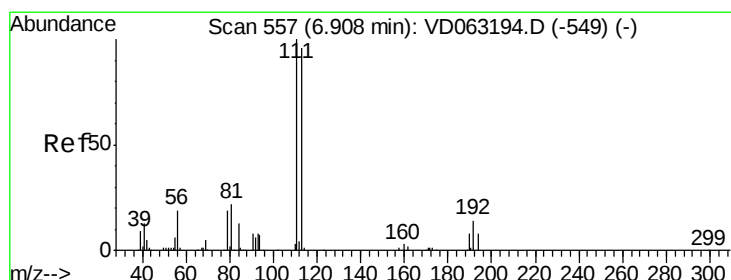
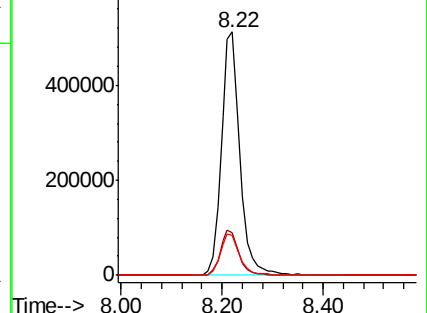
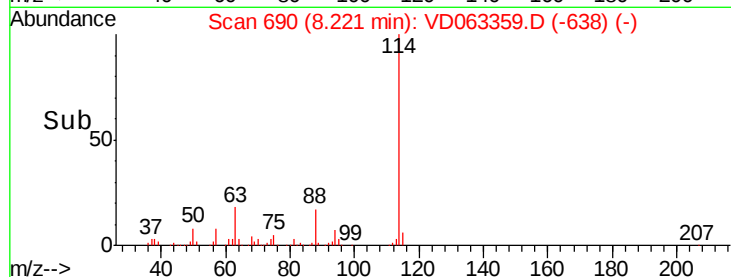
88 16.7 0.0 34.6



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: 56.255 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

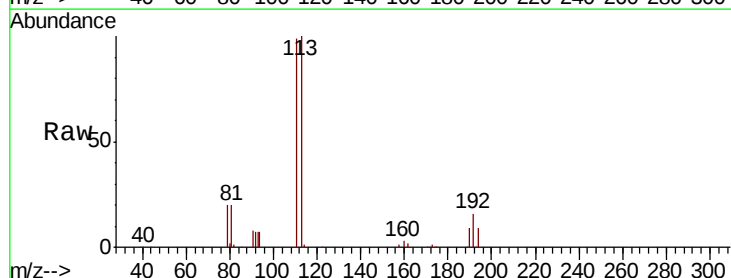
Tgt Ion:113 Resp: 633274

Ion Ratio Lower Upper

113 100

111 98.6 83.2 124.8

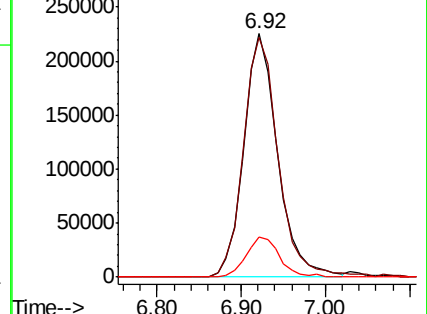
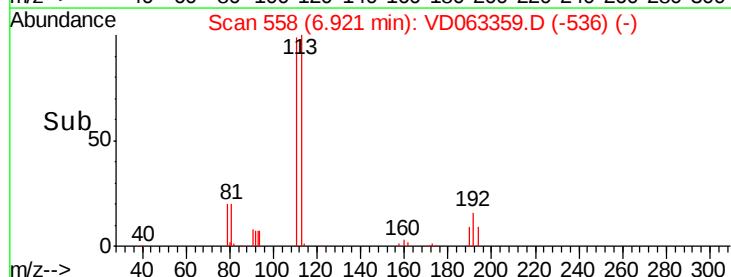
192 16.4 11.8 17.8

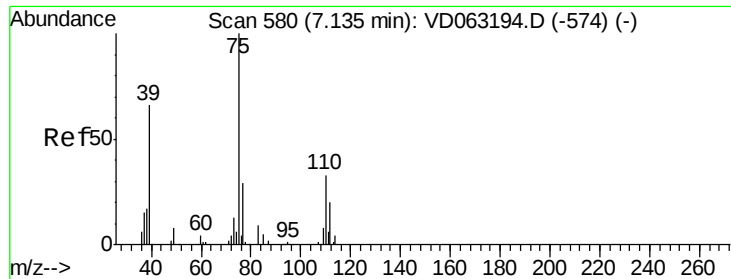


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

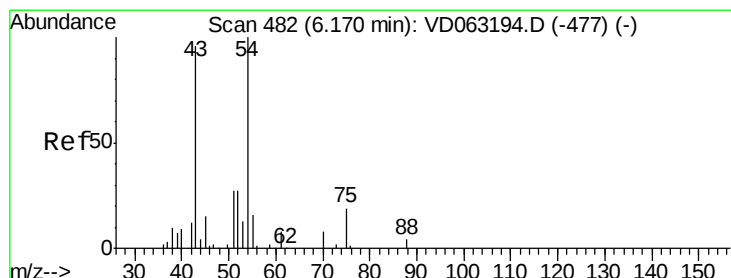
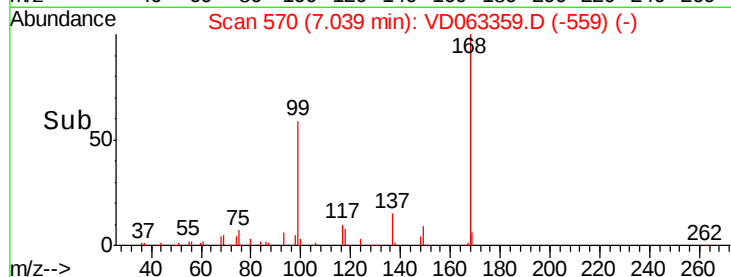
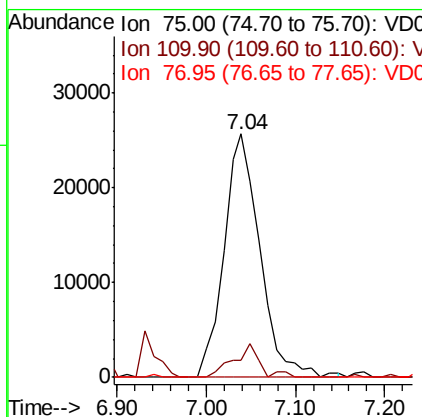
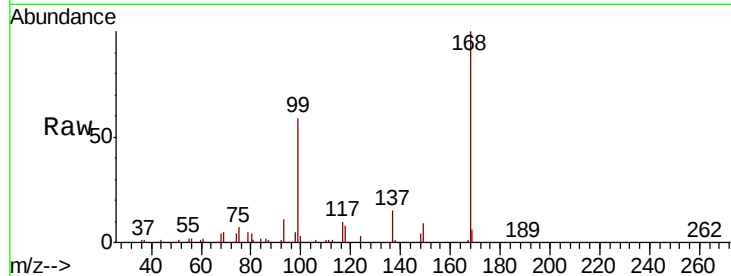




#36
 1,1-Dichloropropene
 Concen: 6.013 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD063359.D
 Acq: 3 Aug 2019 14:13

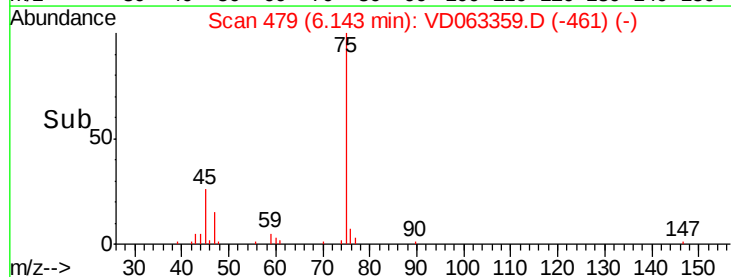
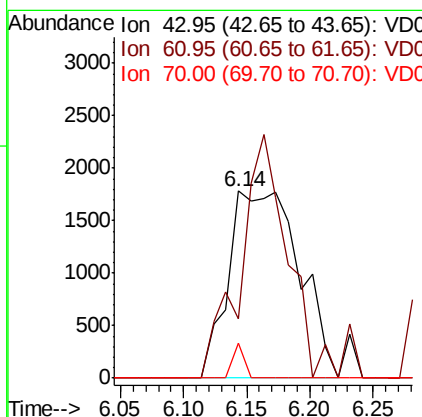
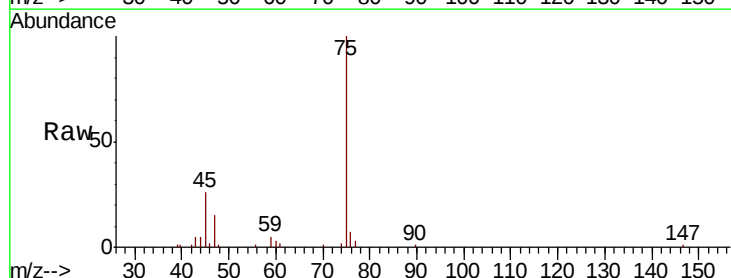
Instrument :
 MSVOA_D
 ClientSampleId :
 1S-C3-(0-1)

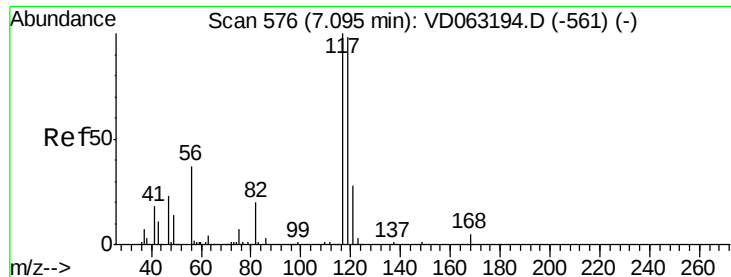
Tgt Ion: 75 Resp: 72354
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.1 48.2#
 77 0.0 22.7 34.1#



#37
 Ethyl Acetate
 Concen: 1.283 ug/l
 RT: 6.14 min Scan# 479
 Delta R.T. -0.03 min
 Lab File: VD063359.D
 Acq: 3 Aug 2019 14:13

Tgt Ion: 43 Resp: 6937
 Ion Ratio Lower Upper
 43 100
 61 31.9 11.3 16.9#
 70 18.7 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 5.456 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(0-1)

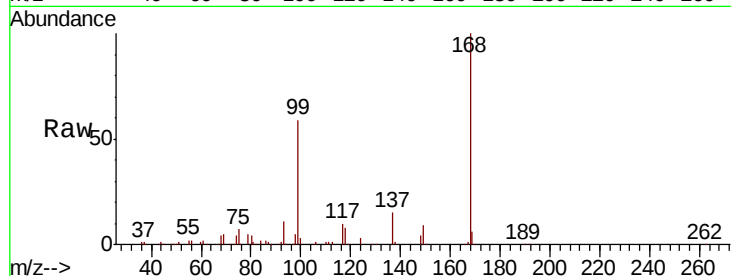
Tgt Ion:117 Resp: 98835

Ion Ratio Lower Upper

117 100

119 2.5 78.2 117.2#

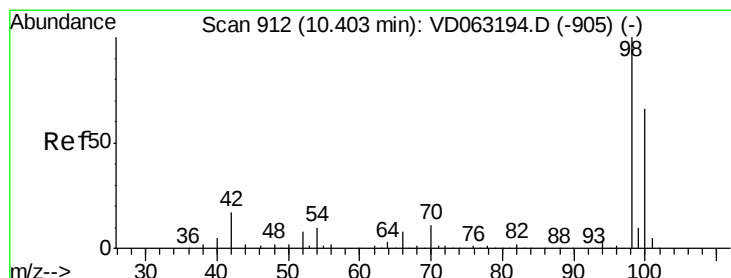
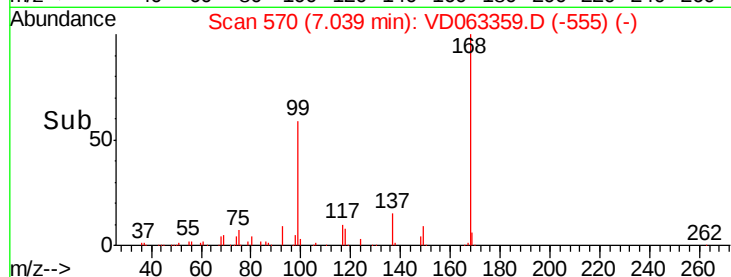
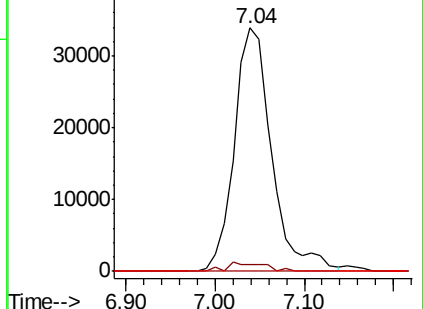
121 0.0 22.1 33.1#



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: 50.277 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063359.D

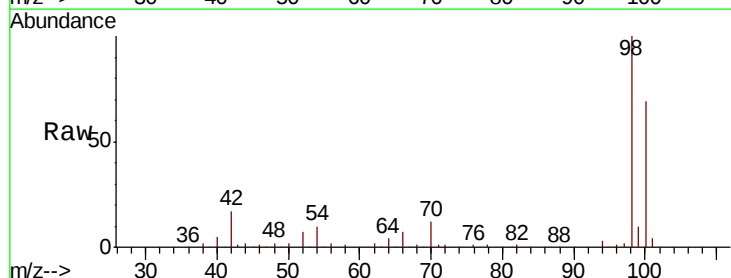
Acq: 3 Aug 2019 14:13

Tgt Ion: 98 Resp: 1266653

Ion Ratio Lower Upper

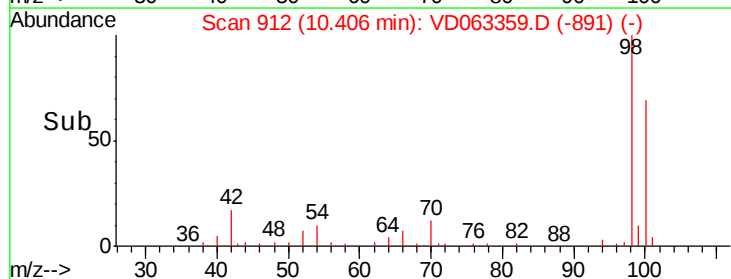
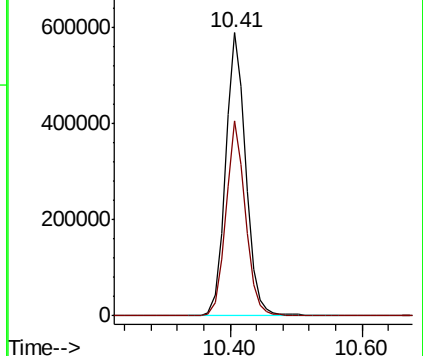
98 100

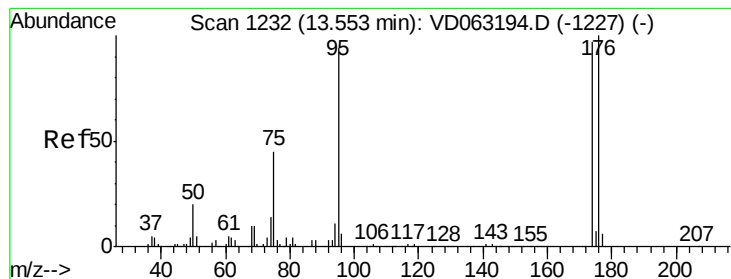
100 69.0 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 35.653 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(0-1)

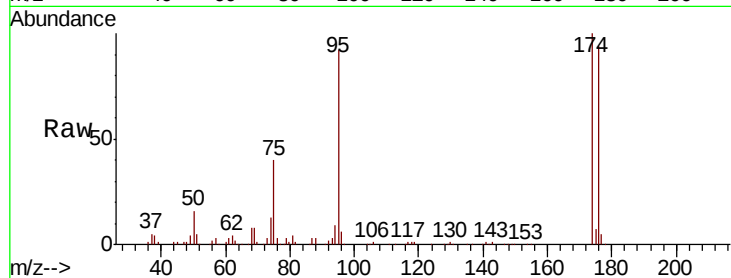
Tgt Ion: 95 Resp: 409324

Ion Ratio Lower Upper

95 100

174 108.4 0.0 205.4

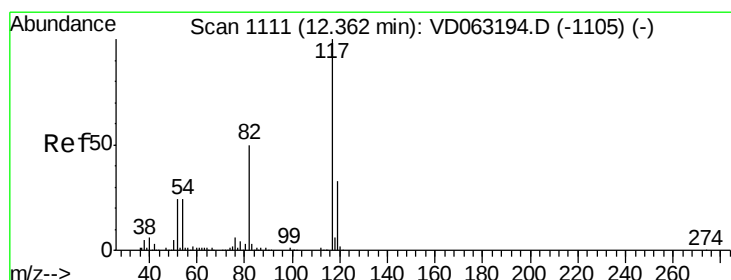
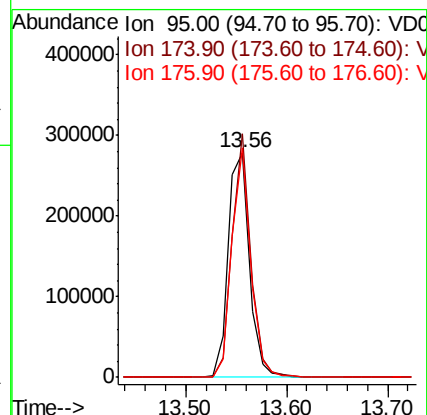
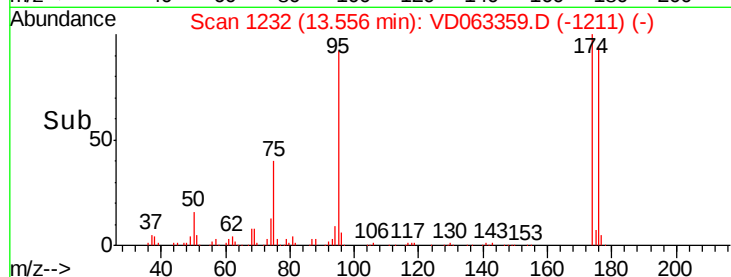
176 102.0 0.0 211.8



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. 0.00 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

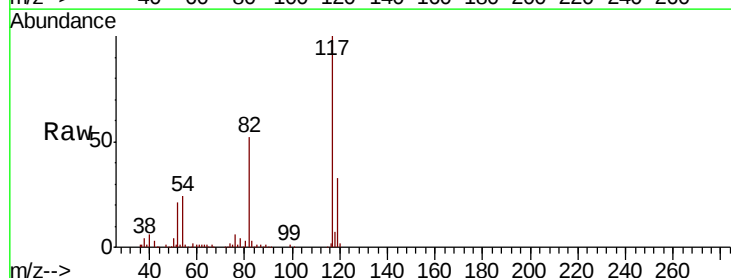
Tgt Ion: 117 Resp: 929006

Ion Ratio Lower Upper

117 100

82 51.9 40.1 60.1

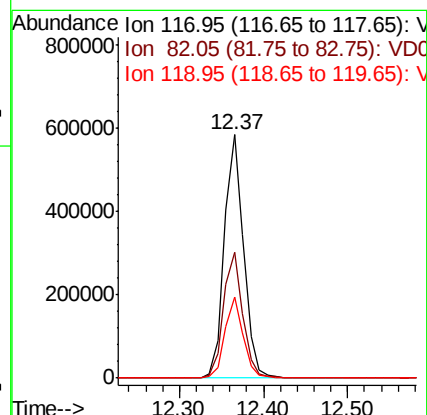
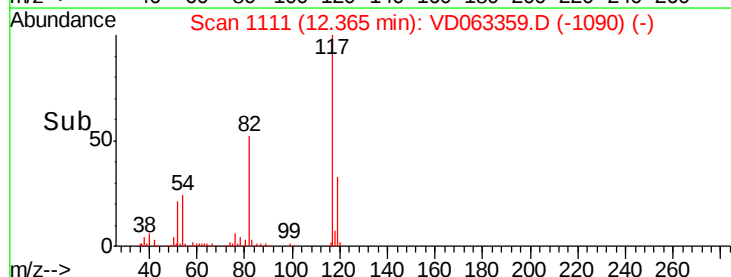
119 33.2 26.5 39.7

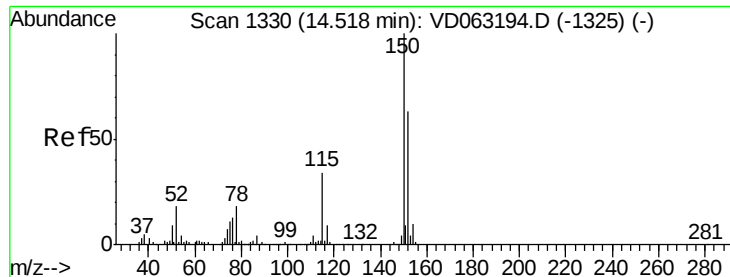


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

Instrument :

MSVOA_D

ClientSampleId :

1S-C3-(0-1)

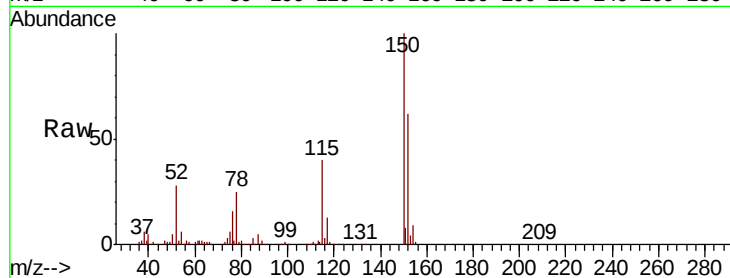
Tgt Ion:152 Resp: 331137

Ion Ratio Lower Upper

152 100

115 64.1 27.5 82.4

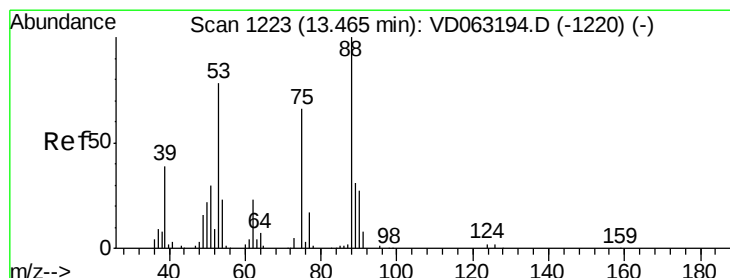
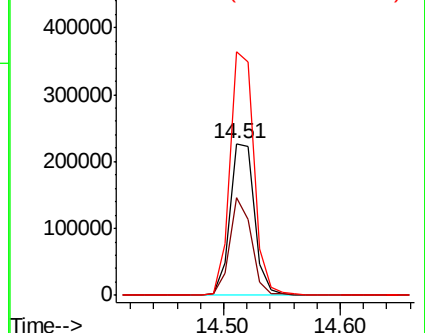
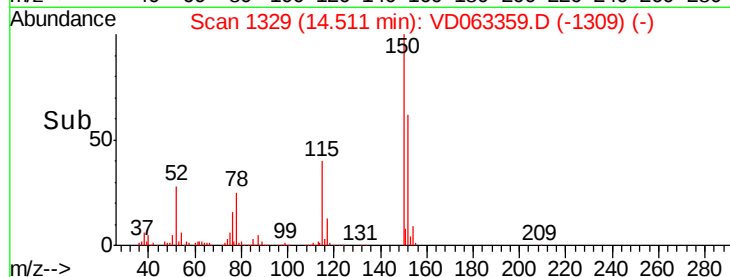
150 160.1 0.0 320.6



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: 164.075 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063359.D

Acq: 3 Aug 2019 14:13

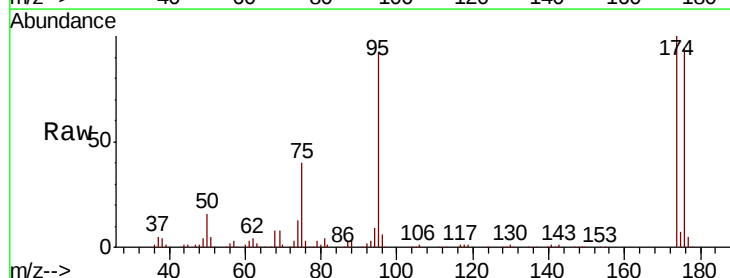
Tgt Ion: 75 Resp: 181211

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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

