

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063439.D
 Acq On : 8 Aug 2019 15:36
 Operator : JC/SY
 Sample : K4223-02
 Misc : 4.67g/5ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-1

Quant Time: Aug 09 06:58:19 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	7.06	168	807669	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1111184	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	709550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	195603	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	469563	52.40	ug/l	0.03
Spiked Amount	50.000		Recovery	=	104.80%	
35) Dibromofluoromethane	6.94	113	511449	53.91	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.82%	
50) Toluene-d8	10.42	98	840516	39.59	ug/l	0.02
Spiked Amount	50.000		Recovery	=	79.18%	
62) 4-Bromofluorobenzene	13.56	95	251820	26.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.06%	

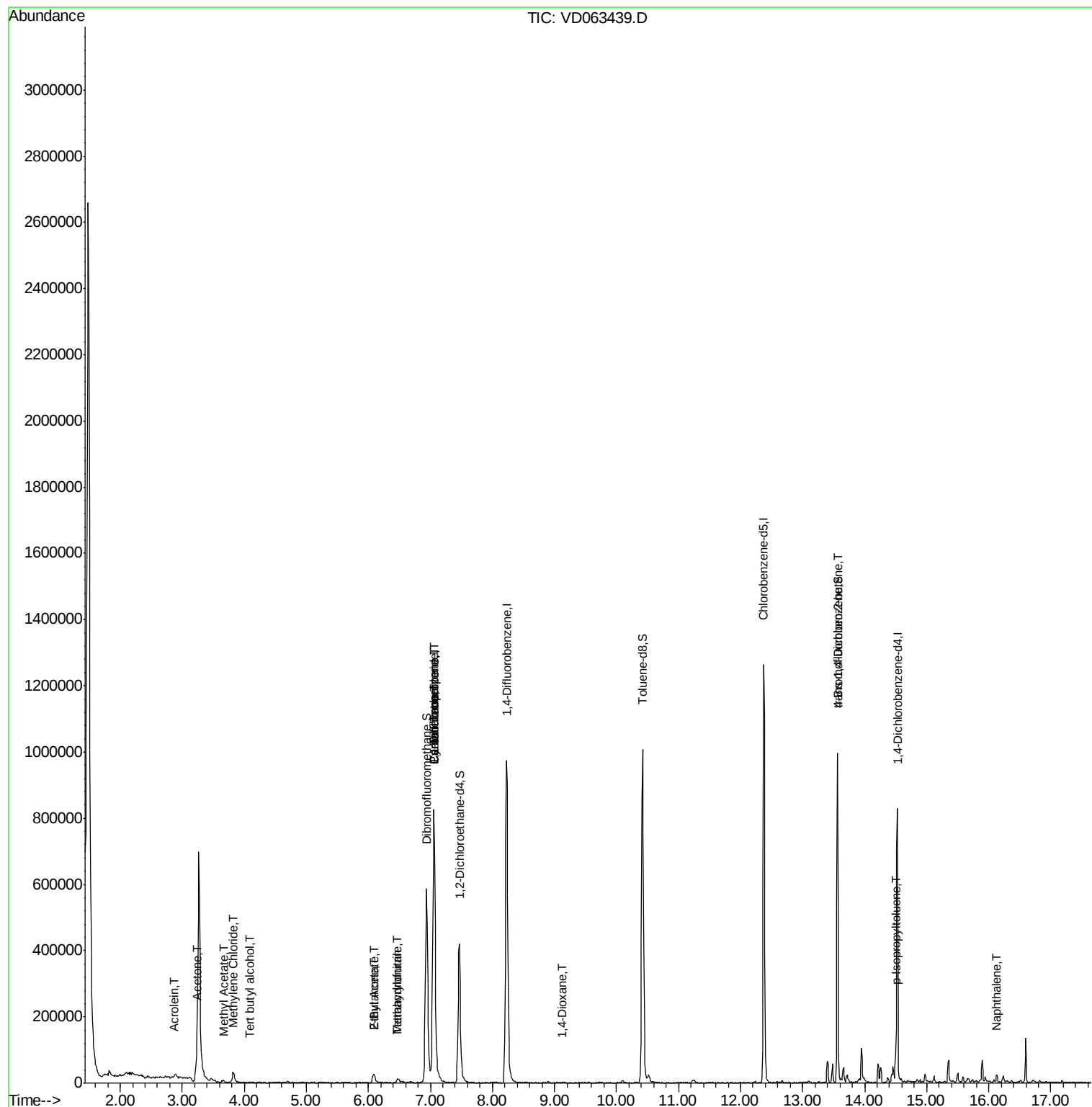
Target Compounds						Qvalue
11) Tert butyl alcohol	4.07	59	490	1.246	ug/l #	69
13) Acrolein	2.86	56	403	1.065	ug/l	95
16) Acetone	3.23	43	121015	69.305	ug/l #	88
18) Methyl Acetate	3.67	43	10865	3.239	ug/l #	86
20) Methylene Chloride	3.83	84	16600	2.352	ug/l #	68
25) 2-Butanone	6.09	43	51184	29.208	ug/l #	80
29) Tetrahydrofuran	6.47	42	10204	12.299	ug/l	92
31) Cyclohexane	7.06	56	14205	1.779	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	62000	6.114	ug/l #	52
37) Ethyl Acetate	6.09	43	51182	11.234	ug/l #	70
38) Carbon Tetrachloride	7.06	117	80189	5.252	ug/l #	14
41) Methacrylonitrile	6.47	41	7492	1.375	ug/l #	91
49) 1,4-Dioxane	9.12	88	210	2.461	ug/l #	7
81) trans-1,4-Dichloro-2-buten	13.56	75	115830	177.546	ug/l #	3
86) p-Isopropyltoluene	14.50	119	31329	2.577	ug/l	96
95) Naphthalene	16.13	128	13449	2.223	ug/l #	95

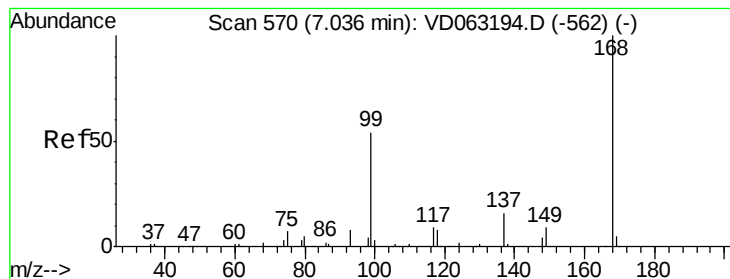
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampleId :

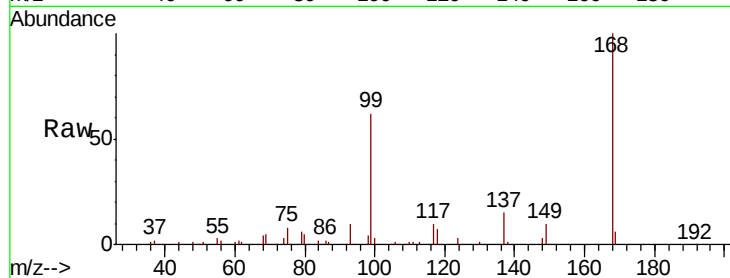
SP-1

Tgt Ion:168 Resp: 807669

Ion Ratio Lower Upper

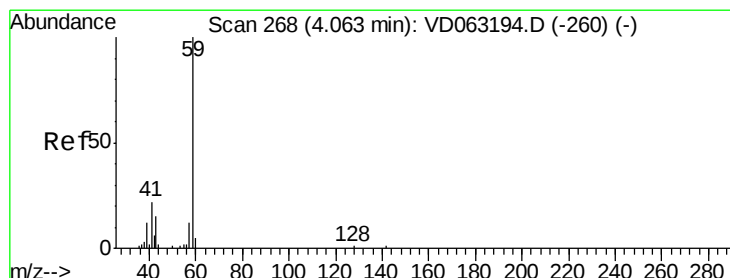
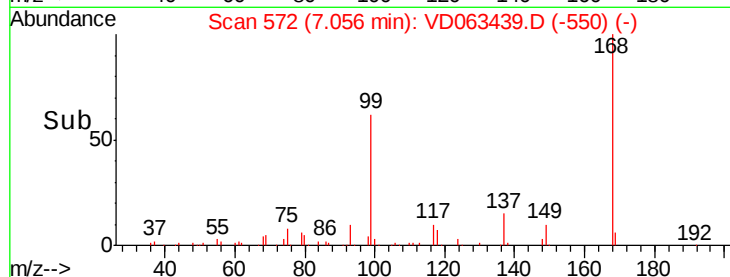
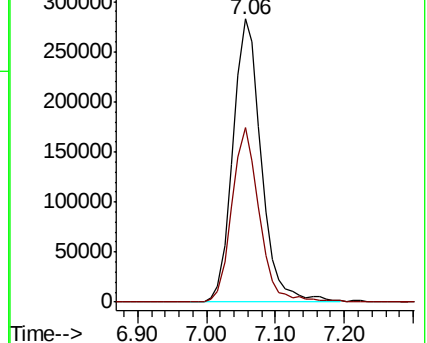
168 100

99 61.6 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.246 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.01 min

Lab File: VD063439.D

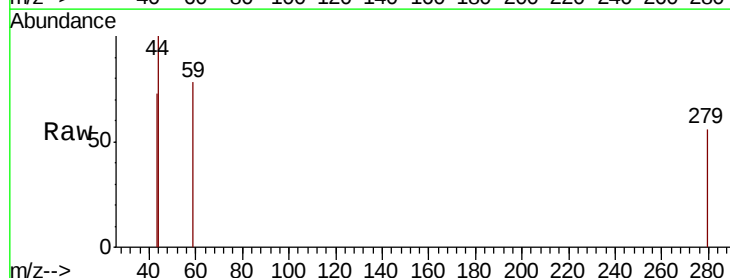
Acq: 8 Aug 2019 15:36

Tgt Ion: 59 Resp: 490

Ion Ratio Lower Upper

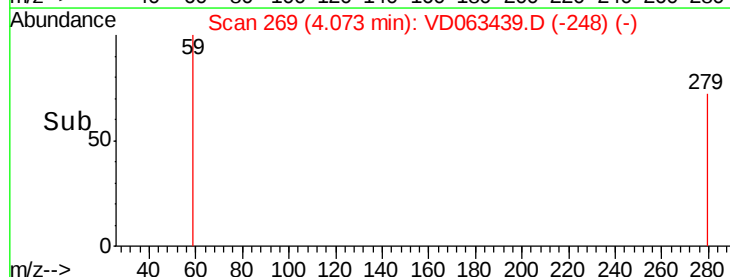
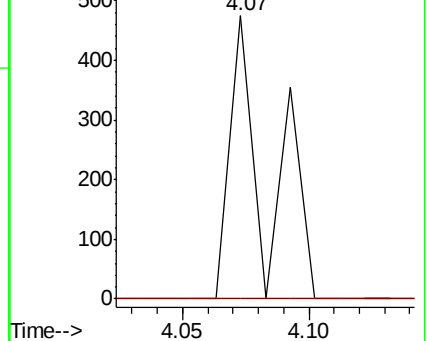
59 100

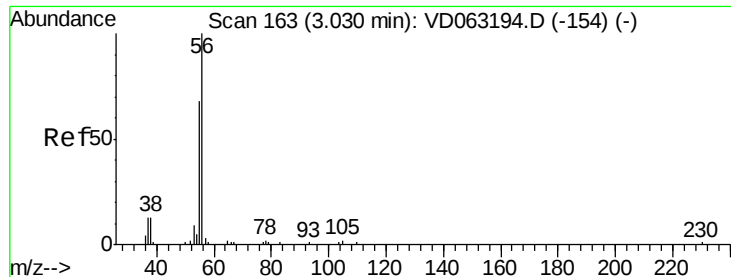
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.065 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.17 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampleId :

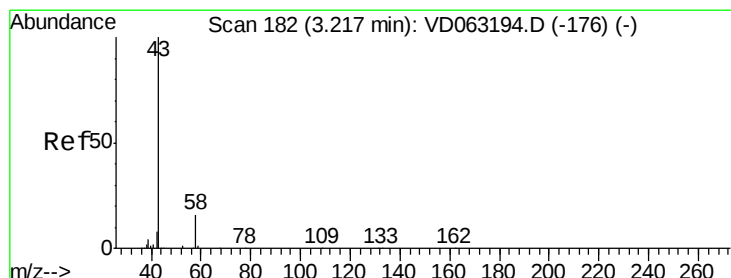
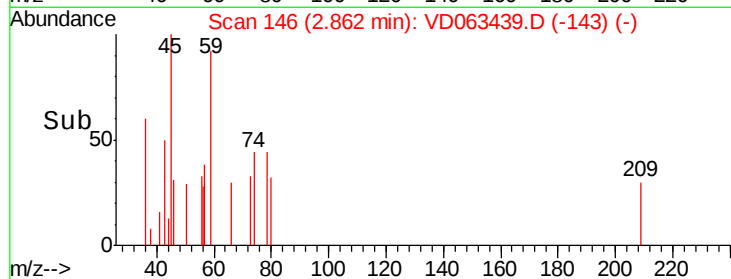
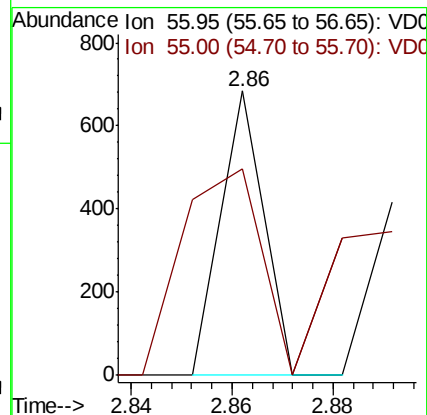
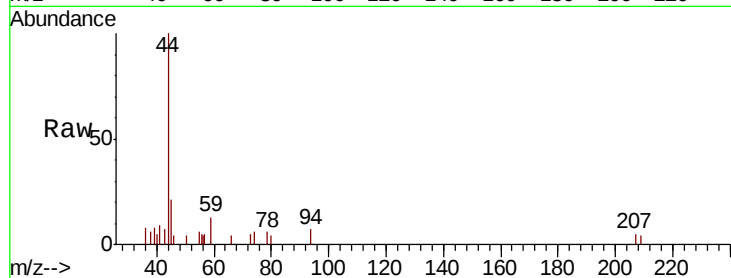
SP-1

Tgt Ion: 56 Resp: 403

Ion Ratio Lower Upper

56 100

55 72.8 55.3 82.9



#16

Acetone

Concen: 69.305 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063439.D

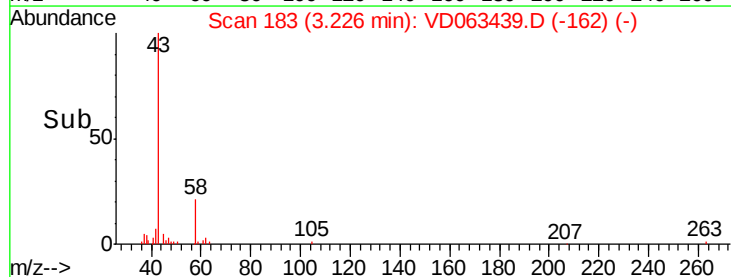
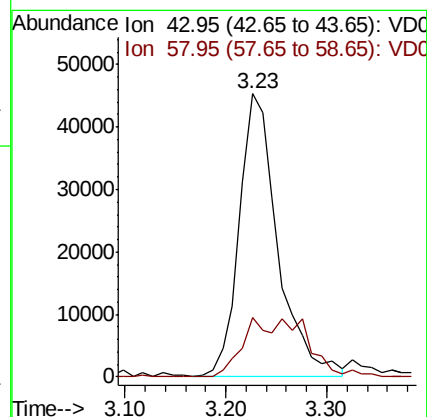
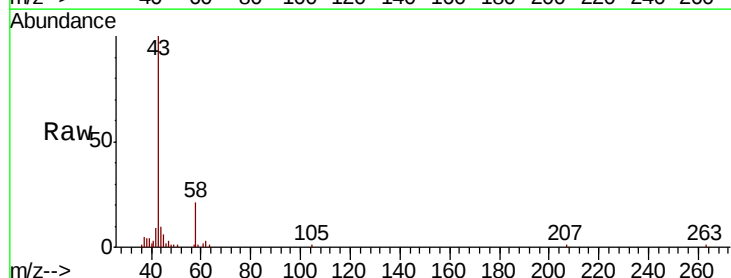
Acq: 8 Aug 2019 15:36

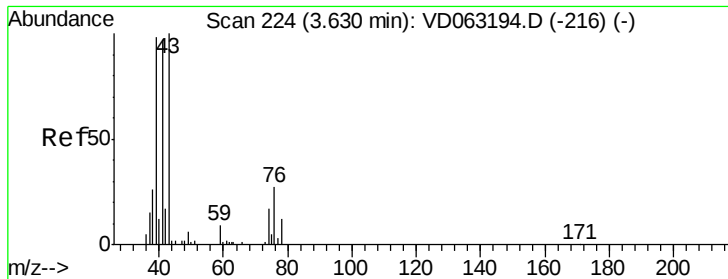
Tgt Ion: 43 Resp: 121015

Ion Ratio Lower Upper

43 100

58 21.1 13.0 19.4#

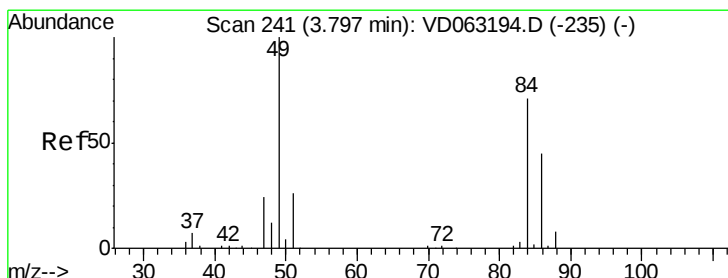
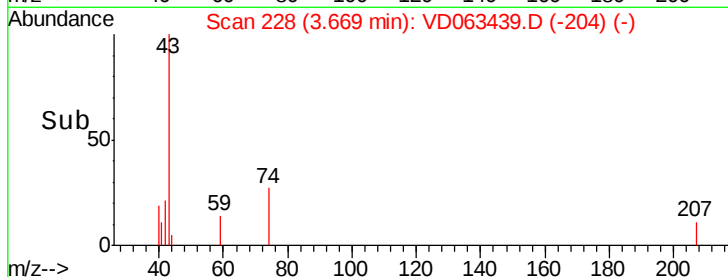
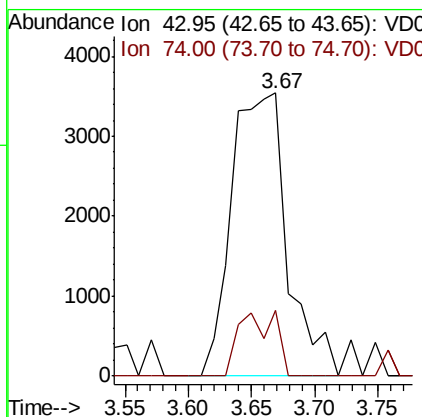
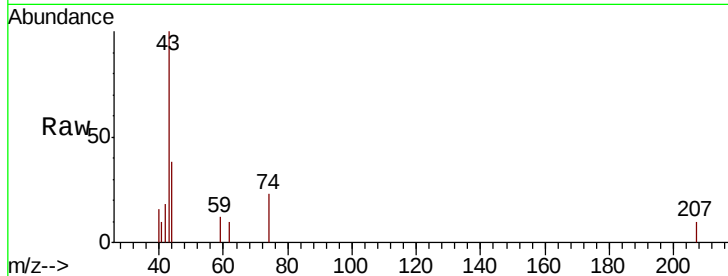




#18
Methyl Acetate
Concen: 3.239 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.04 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

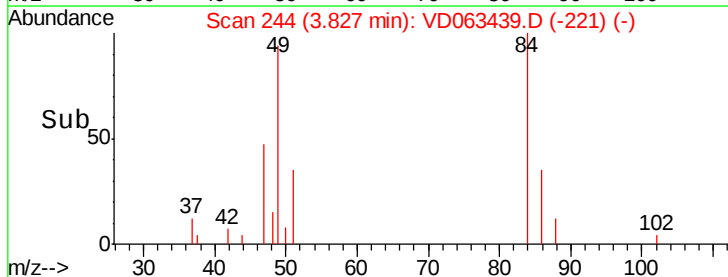
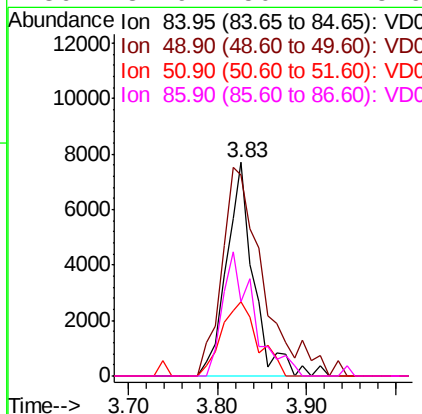
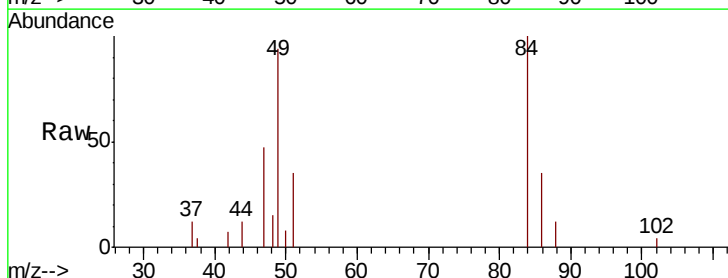
Instrument :
MSVOA_D
ClientSampleId :
SP-1

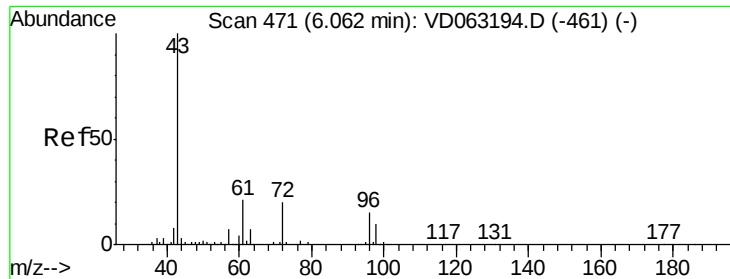
Tgt Ion: 43 Resp: 10865
Ion Ratio Lower Upper
43 100
74 23.2 13.8 20.8#



#20
Methylene Chloride
Concen: 2.352 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

Tgt Ion: 84 Resp: 16600
Ion Ratio Lower Upper
84 100
49 94.1 112.5 168.7#
51 34.9 29.6 44.4
86 34.9 50.4 75.6#





#25

2-Butanone

Concen: 29.208 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.03 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampleId :

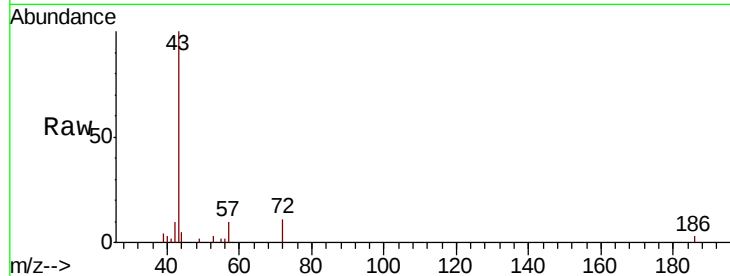
SP-1

Tgt Ion: 43 Resp: 51184

Ion Ratio Lower Upper

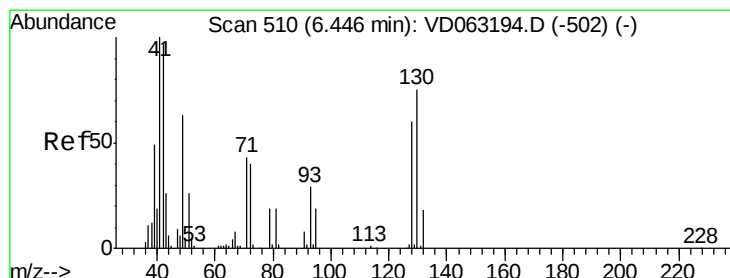
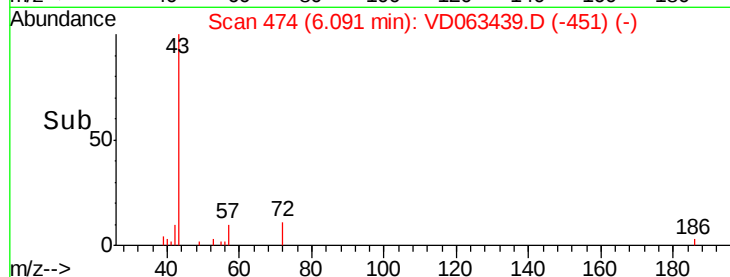
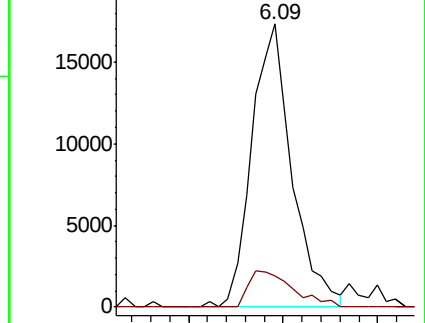
43 100

72 11.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 12.299 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

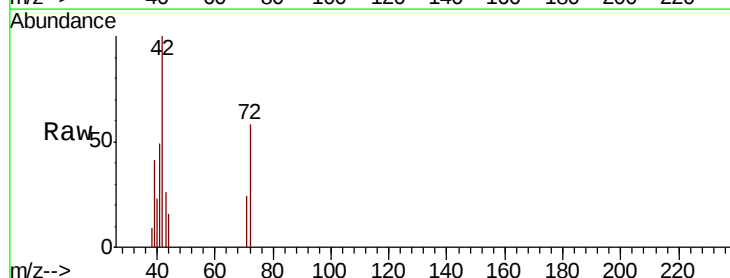
Tgt Ion: 42 Resp: 10204

Ion Ratio Lower Upper

42 100

72 44.4 33.4 50.2

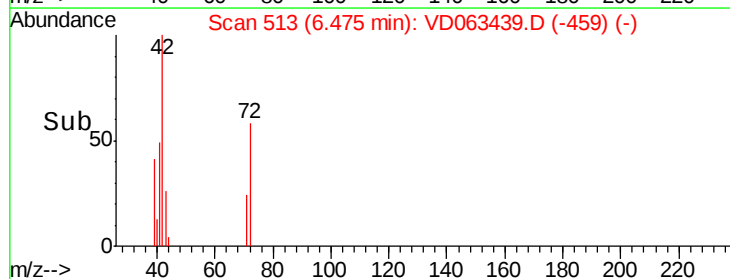
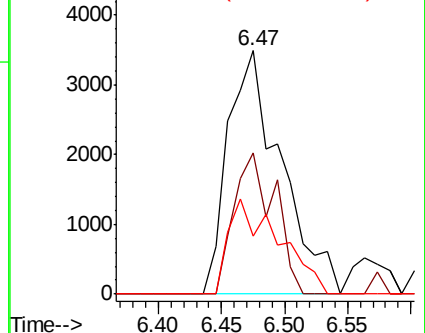
71 37.1 35.7 53.5

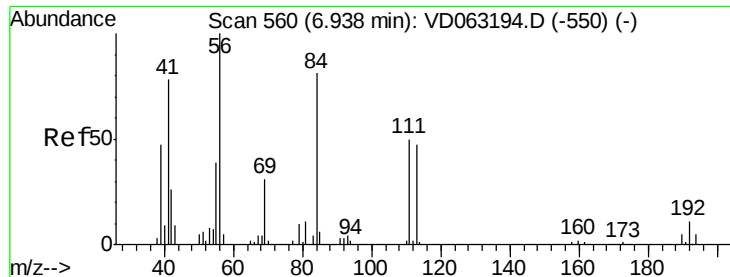


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

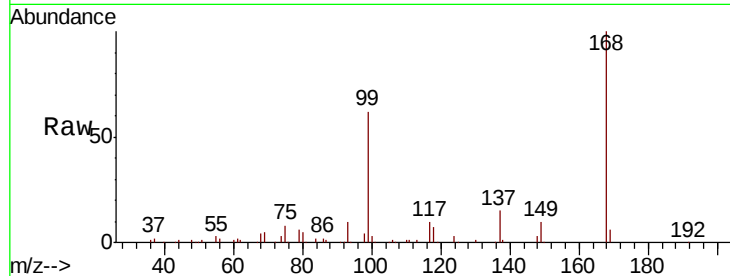




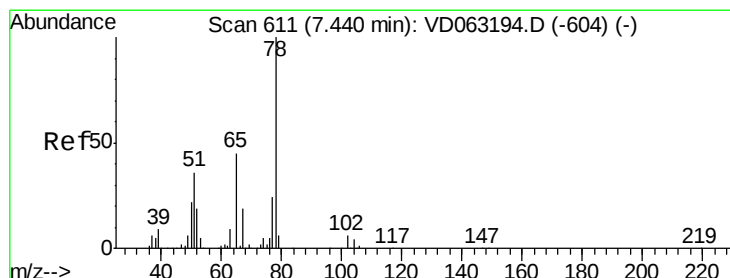
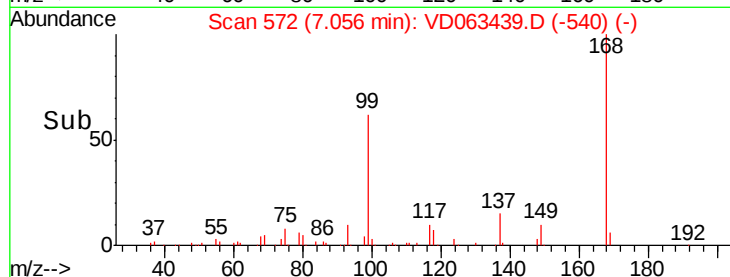
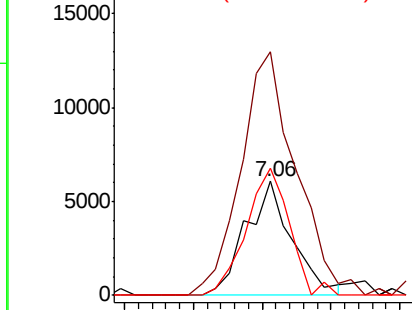
#31
Cyclohexane
Concen: 1.779 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.12 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

Instrument :
MSVOA_D
ClientSampleId :
SP-1

Tgt Ion: 56 Resp: 14205
Ion Ratio Lower Upper
56 100
69 213.3 24.5 36.7#
84 111.6 64.9 97.3#

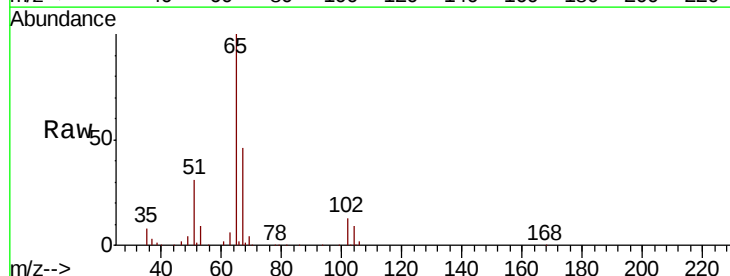


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

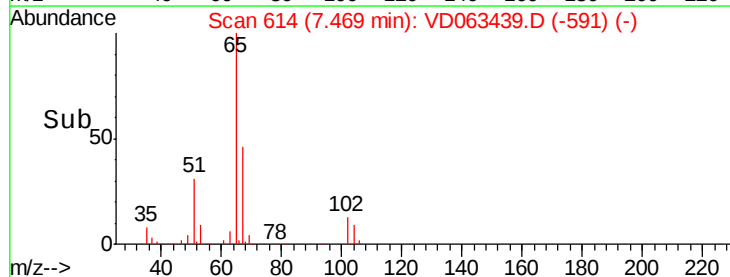
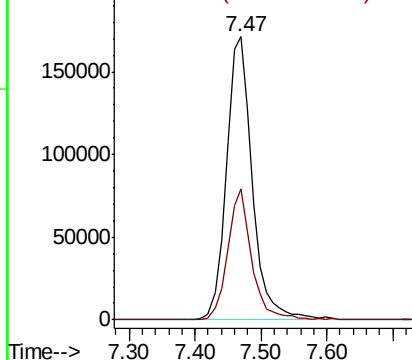


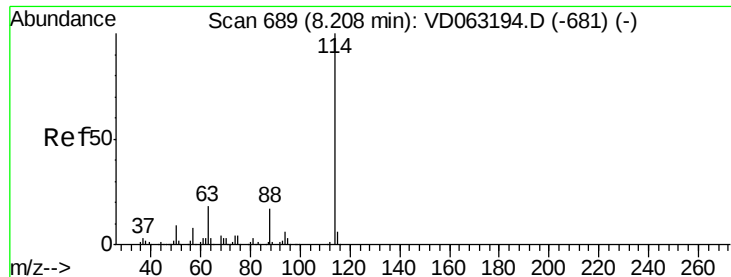
#33
1,2-Dichloroethane-d4
Concen: 52.396 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.03 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

Tgt Ion: 65 Resp: 469563
Ion Ratio Lower Upper
65 100
67 46.1 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: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampled :

SP-1

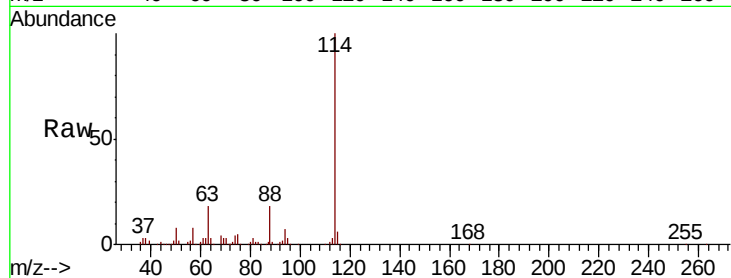
Tgt Ion:114 Resp: 1111184

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.2

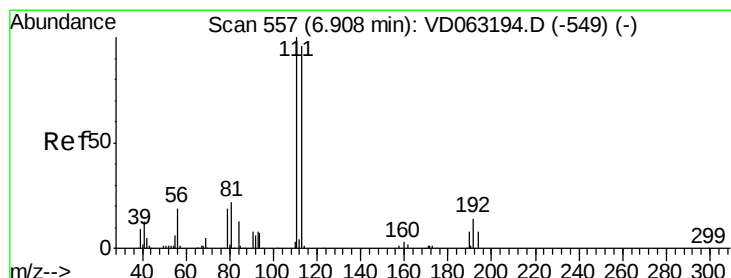
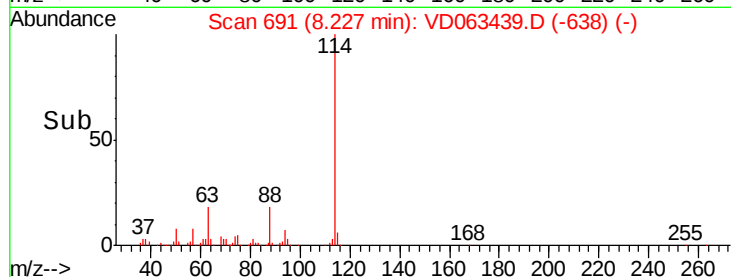
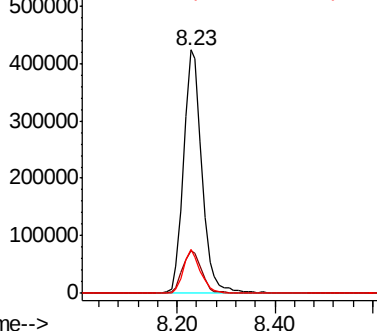
88 18.2 0.0 34.6



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: 53.910 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

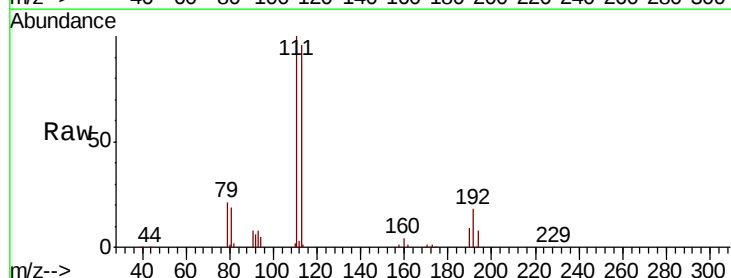
Tgt Ion:113 Resp: 511449

Ion Ratio Lower Upper

113 100

111 104.5 83.2 124.8

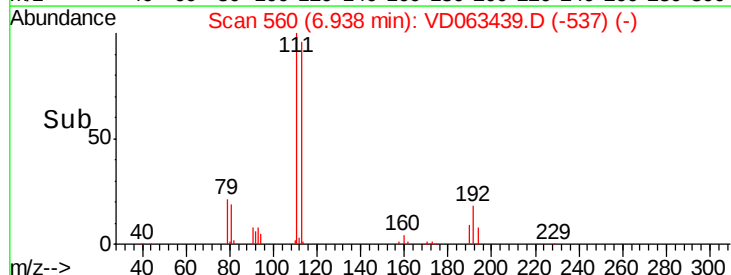
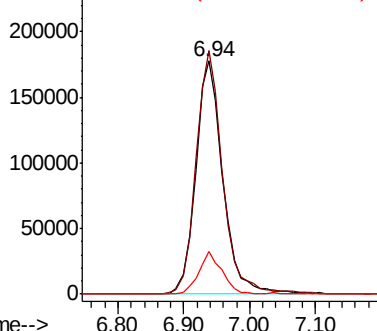
192 18.4 11.8 17.8#

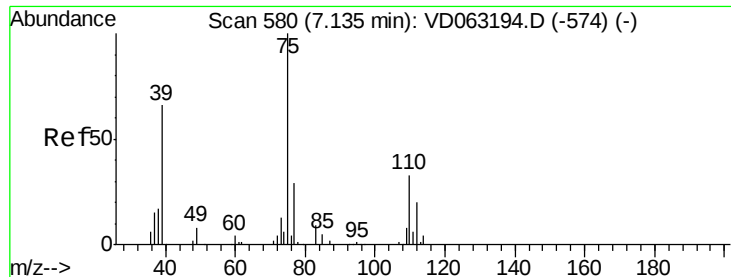


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.114 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampled :

SP-1

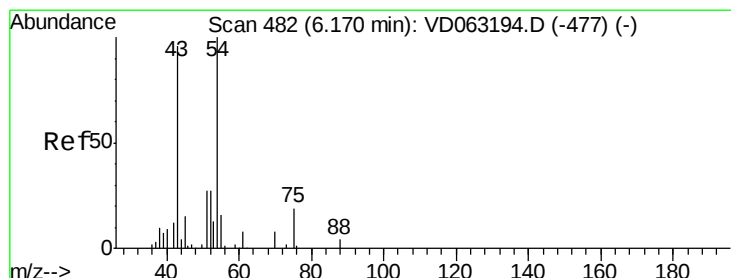
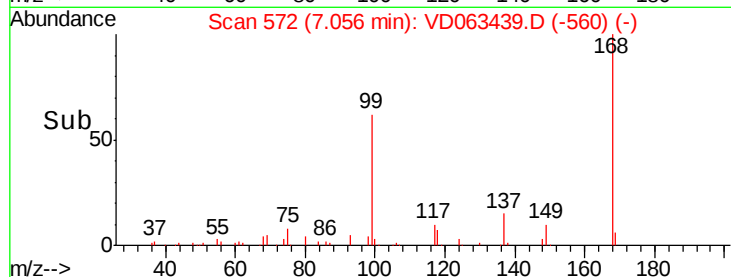
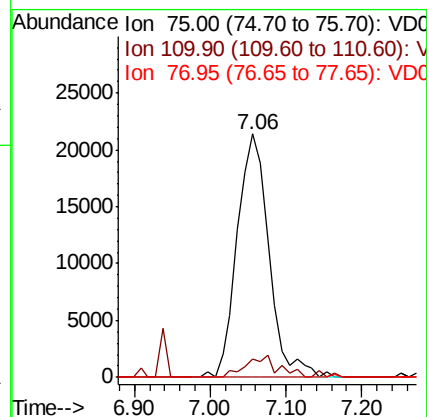
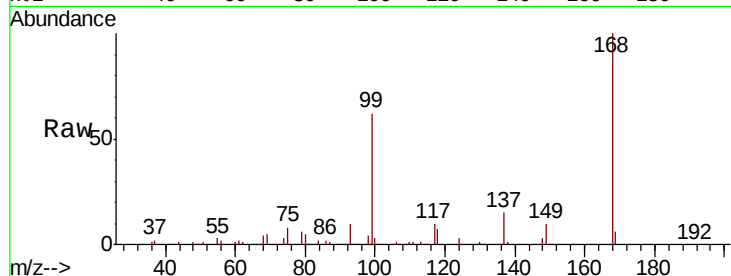
Tgt Ion: 75 Resp: 62000

Ion Ratio Lower Upper

75 100

110 7.6 16.1 48.2#

77 0.0 22.7 34.1#



#37

Ethyl Acetate

Concen: 11.234 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.08 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

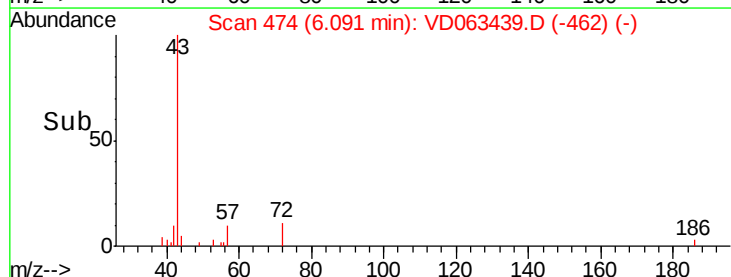
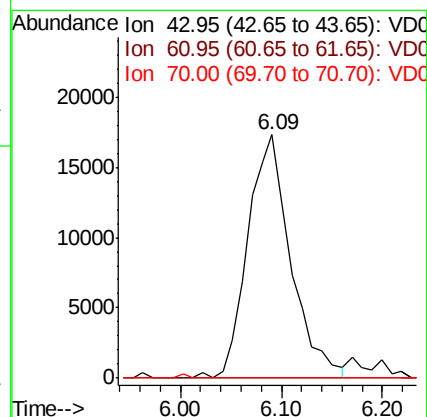
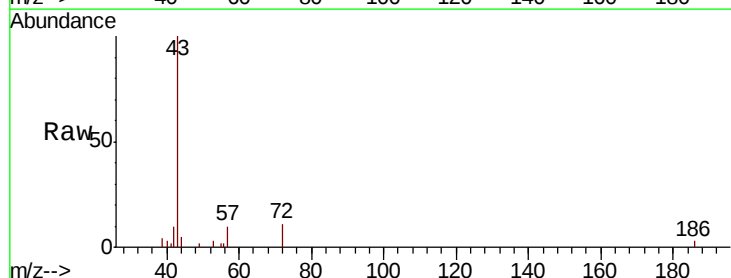
Tgt Ion: 43 Resp: 51182

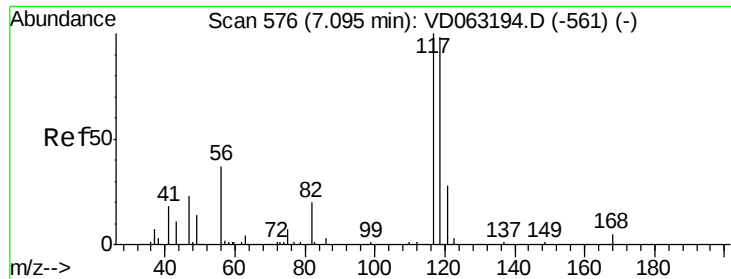
Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 5.252 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampleId :

SP-1

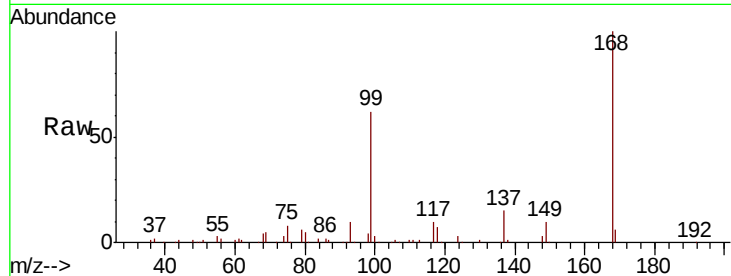
Tgt Ion:117 Resp: 80189

Ion Ratio Lower Upper

117 100

119 3.3 78.2 117.2#

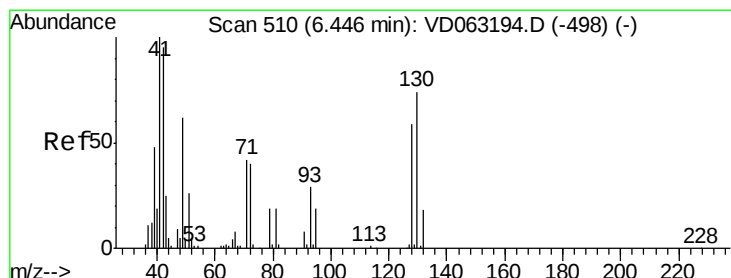
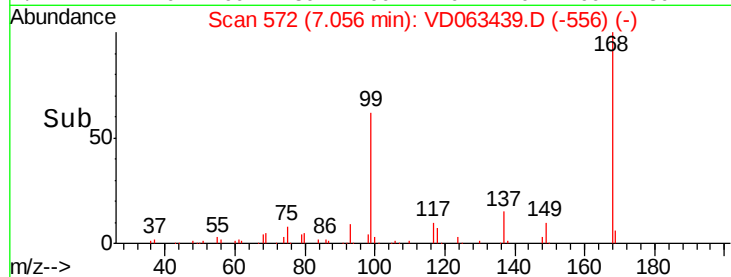
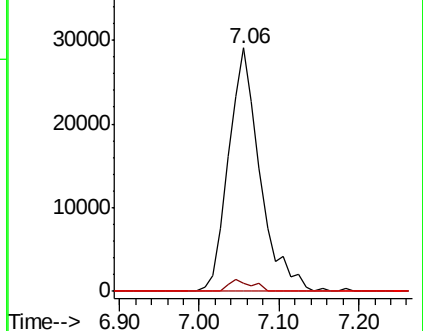
121 0.0 22.1 33.1#



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



#41

Methacrylonitrile

Concen: 1.375 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Tgt Ion: 41 Resp: 7492

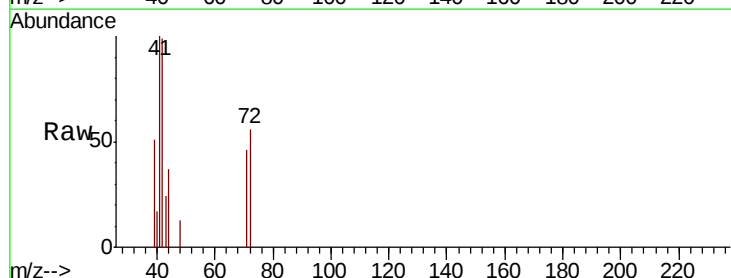
Ion Ratio Lower Upper

41 100

39 51.4 38.4 57.6

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

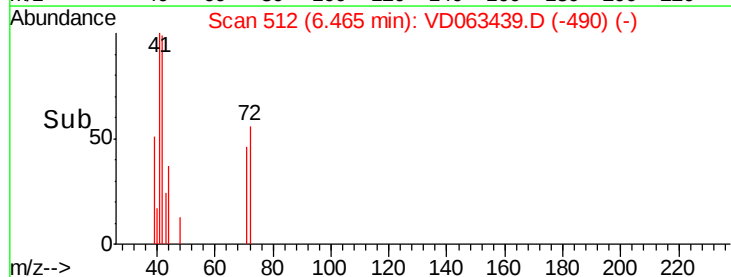
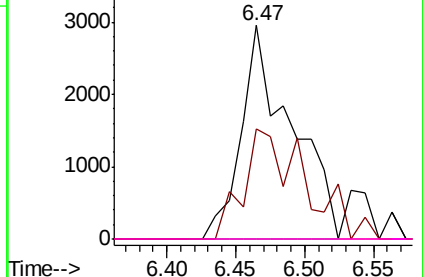


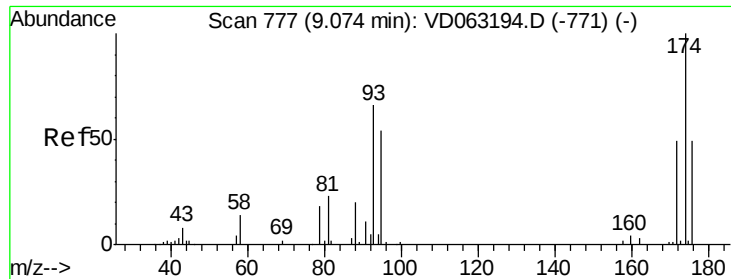
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

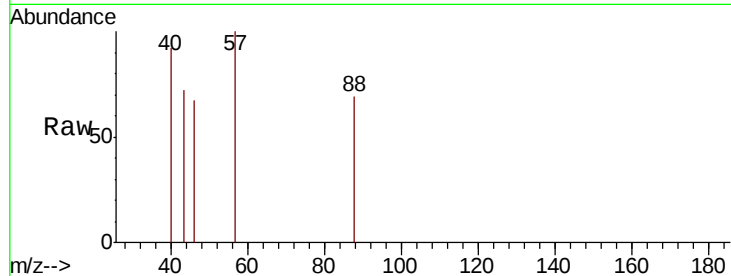




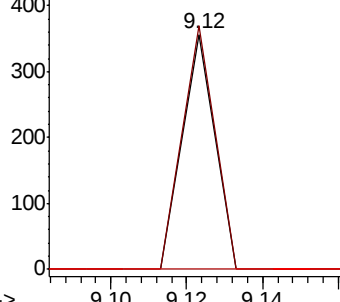
#49
 1,4-Dioxane
 Concen: 2.461 ug/l
 RT: 9.12 min Scan# 782
 Delta R.T. 0.05 min
 Lab File: VD063439.D
 Acq: 8 Aug 2019 15:36

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-1

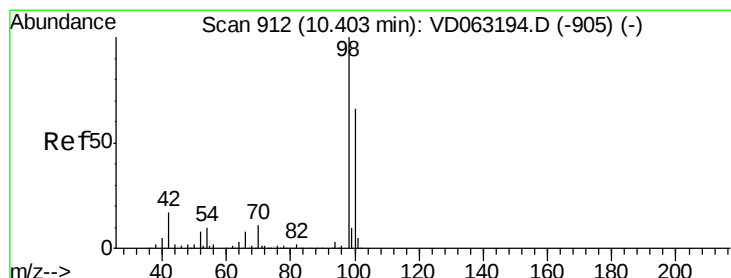
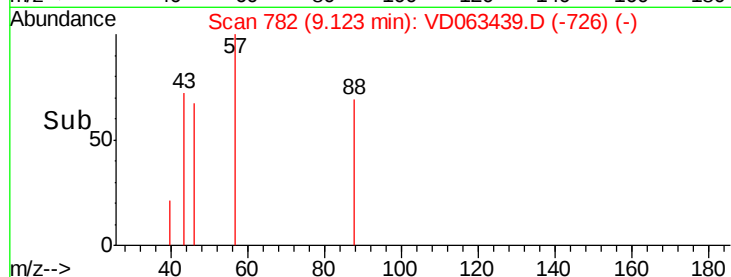
Tgt Ion: 88 Resp: 210
 Ion Ratio Lower Upper
 88 100
 43 103.7 30.7 46.1#
 58 0.0 56.5 84.7#



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

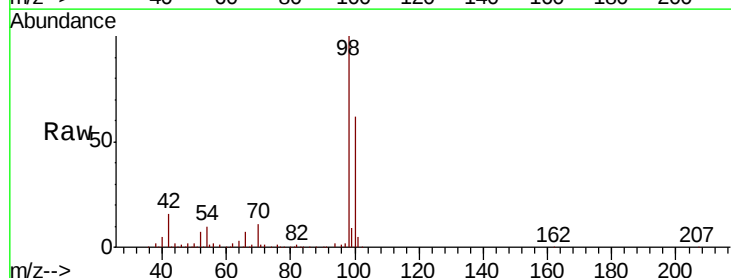


Time-->

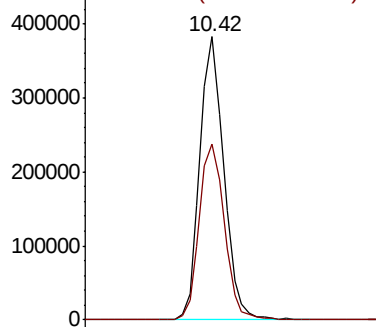


#50
 Toluene-d8
 Concen: 39.587 ug/l
 RT: 10.42 min Scan# 914
 Delta R.T. 0.02 min
 Lab File: VD063439.D
 Acq: 8 Aug 2019 15:36

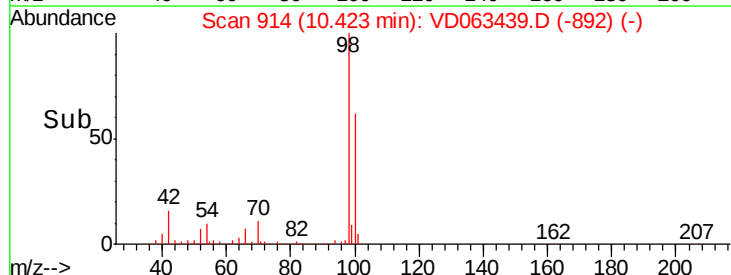
Tgt Ion: 98 Resp: 840516
 Ion Ratio Lower Upper
 98 100
 100 62.1 53.2 79.8

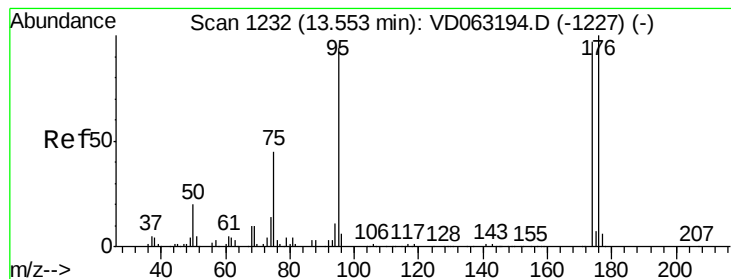


Abundance Ion 98.05 (97.75 to 98.75): VDC
 Ion 100.05 (99.75 to 100.75): VDC



Time-->





#62

4-Bromofluorobenzene

Concen: 26.027 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampled :

SP-1

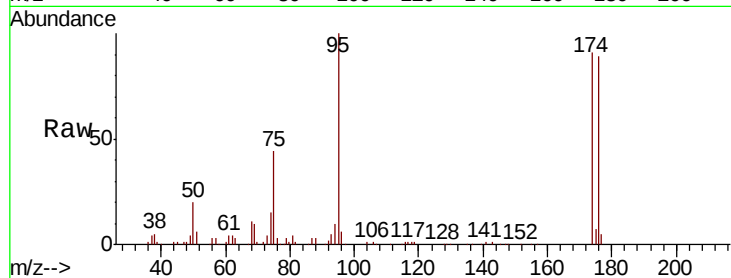
Tgt Ion: 95 Resp: 251820

Ion Ratio Lower Upper

95 100

174 91.4 0.0 205.4

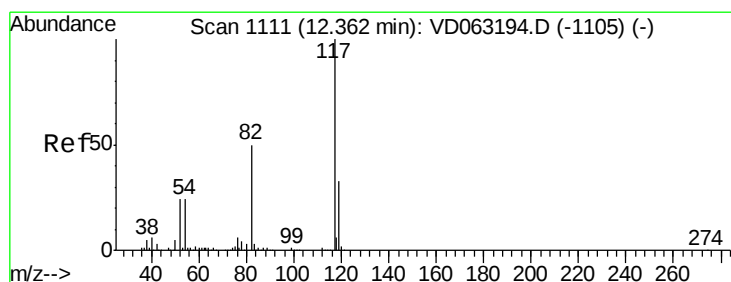
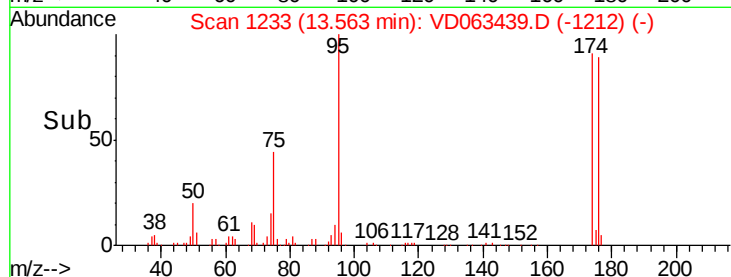
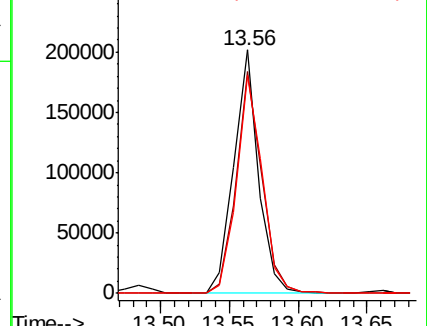
176 89.3 0.0 211.8



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# 1112

Delta R.T. 0.01 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

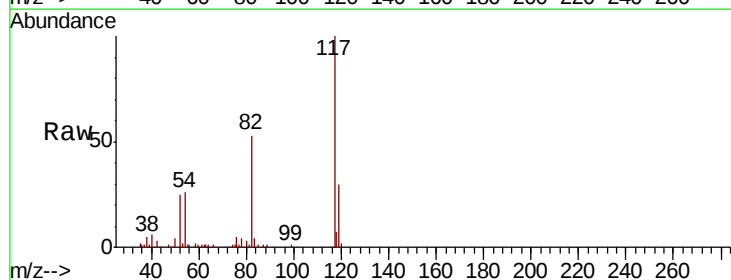
Tgt Ion: 117 Resp: 709550

Ion Ratio Lower Upper

117 100

82 53.1 40.1 60.1

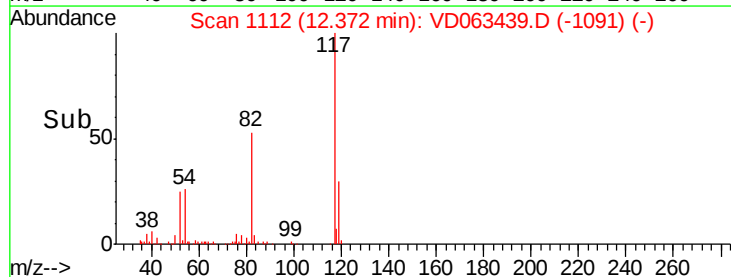
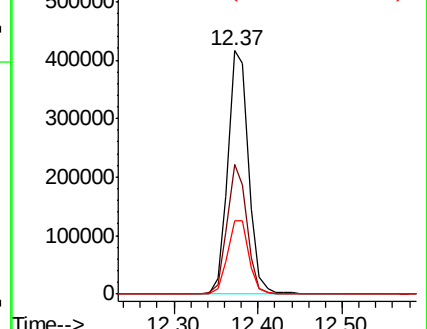
119 30.1 26.5 39.7

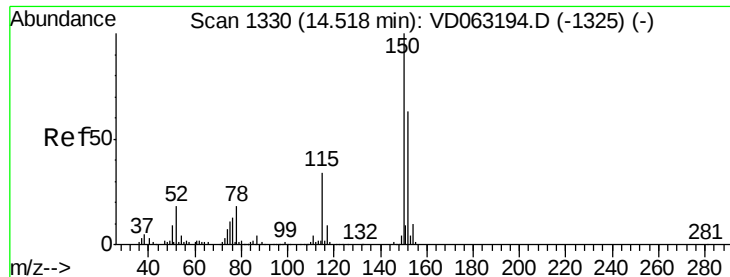


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

Instrument :

MSVOA_D

ClientSampleId :

SP-1

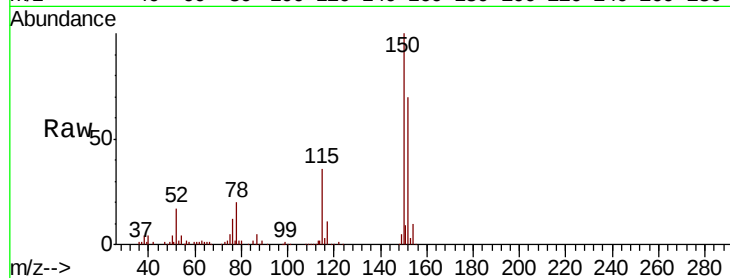
Tgt Ion:152 Resp: 195603

Ion Ratio Lower Upper

152 100

115 51.1 27.5 82.4

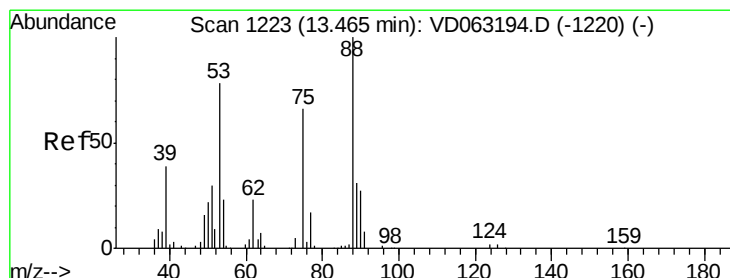
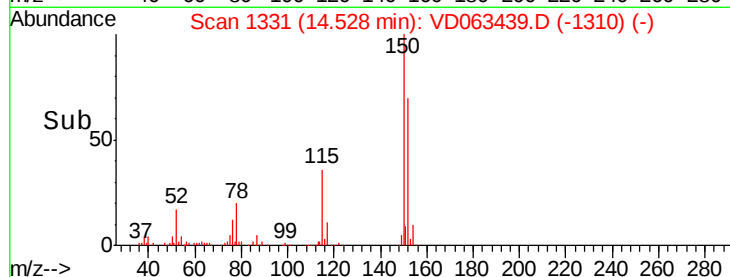
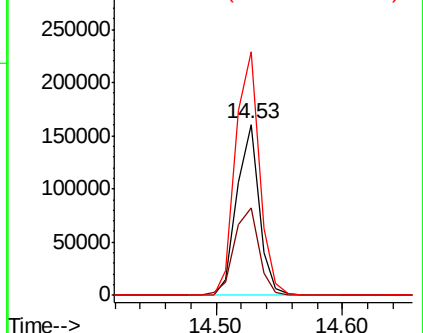
150 142.6 0.0 320.6



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: 177.546 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063439.D

Acq: 8 Aug 2019 15:36

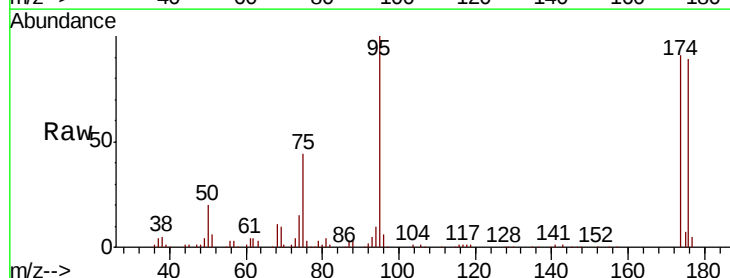
Tgt Ion: 75 Resp: 115830

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

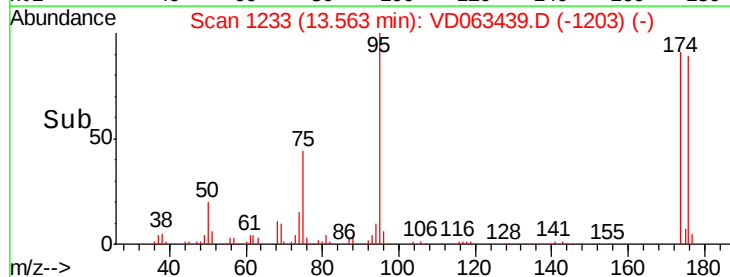
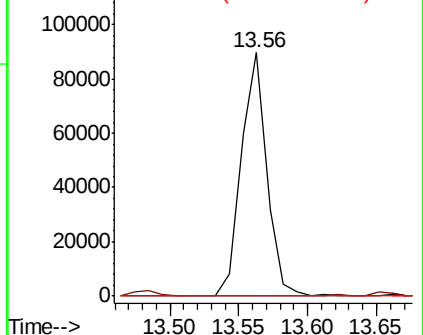
89 0.0 37.4 56.0#

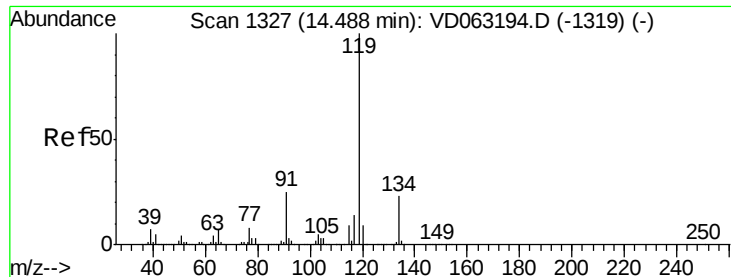


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

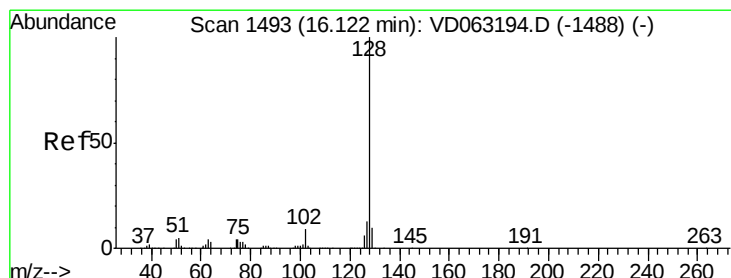
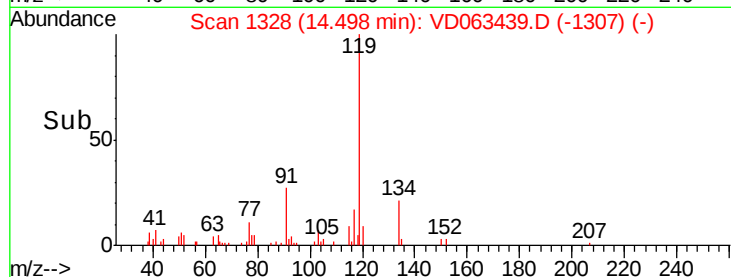
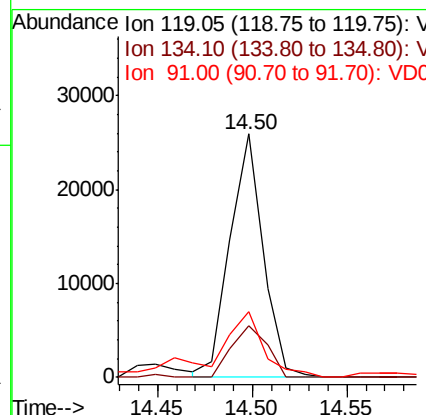
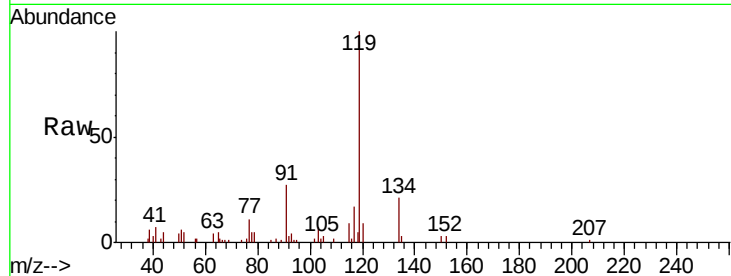




#86
p-Isopropyltoluene
Concen: 2.577 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

Instrument :
MSVOA_D
ClientSampleId :
SP-1

Tgt Ion:119 Resp: 31329
Ion Ratio Lower Upper
119 100
134 21.5 11.5 34.5
91 27.1 12.6 37.6



#95
Naphthalene
Concen: 2.223 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD063439.D
Acq: 8 Aug 2019 15:36

Tgt Ion:128 Resp: 13449
Ion Ratio Lower Upper
128 100
127 10.0 10.2 15.4#
129 8.6 7.8 11.8

