

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062694.D
 Acq On : 13 Jun 2019 15:12
 Operator : VA/AP
 Sample : K3351-05
 Misc : 6.40g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:47:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	831319	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1121255	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	852267	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	382754	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	367478	30.63	ug/l	0.01
Spiked Amount	50.000		Recovery	=	61.26%	
35) Dibromofluoromethane	6.94	113	372822	31.53	ug/l	0.02
Spiked Amount	50.000		Recovery	=	63.06%	
50) Toluene-d8	10.42	98	671436	26.99	ug/l	0.01
Spiked Amount	50.000		Recovery	=	53.98%	
62) 4-Bromofluorobenzene	13.56	95	292239	25.18	ug/l	0.01
Spiked Amount	50.000		Recovery	=	50.36%	

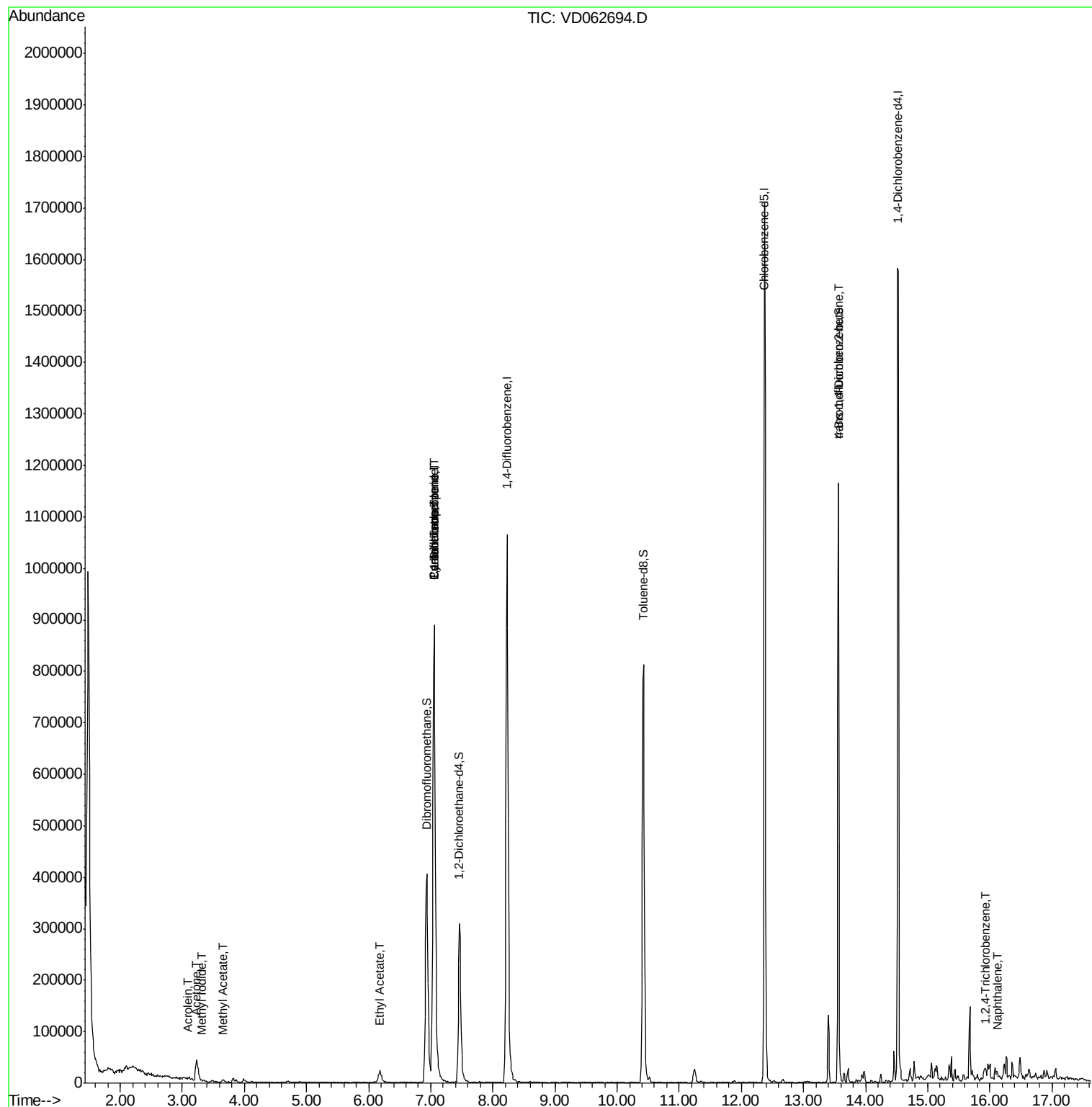
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	744	Below Cal	#	42
10) Methyl Iodide	3.33	142	1820	4.121	ug/l #	24
13) Acrolein	3.09	56	390	2.459	ug/l #	77
16) Acetone	3.23	43	93387	42.514	ug/l	98
18) Methyl Acetate	3.65	43	7877	2.182	ug/l	93
31) Cyclohexane	7.06	56	20248	2.139	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	67093	5.228	ug/l #	54
37) Ethyl Acetate	6.19	43	2377	1.625	ug/l #	74
38) Carbon Tetrachloride	7.06	117	87025	4.290	ug/l #	17
81) trans-1,4-Dichloro-2-buten	13.56	75	147696	92.385	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	1027	3.665	ug/l #	42
95) Naphthalene	16.13	128	5304	3.805	ug/l #	81

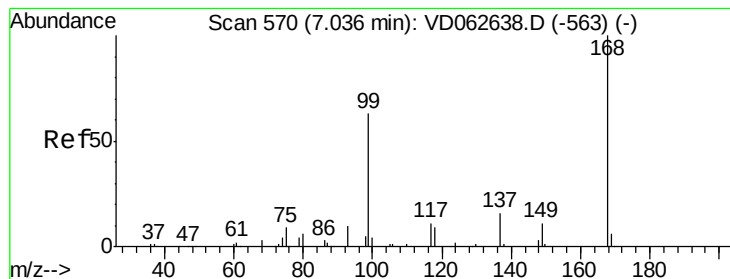
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

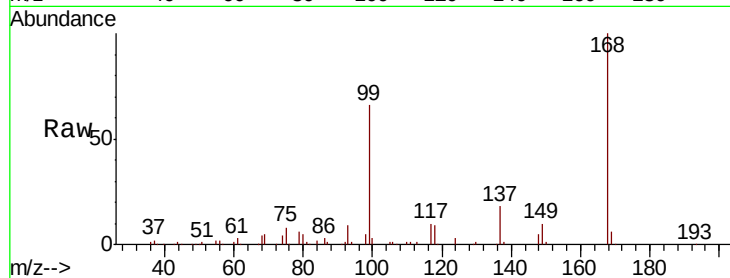
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 831319

Ion Ratio Lower Upper

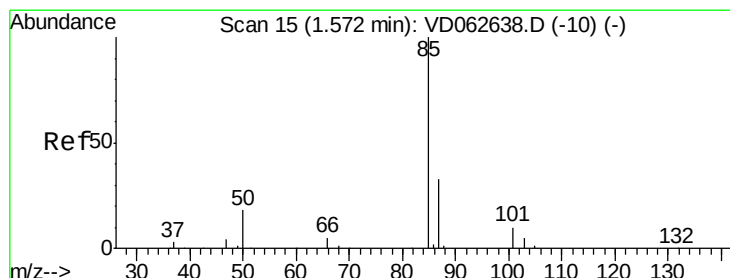
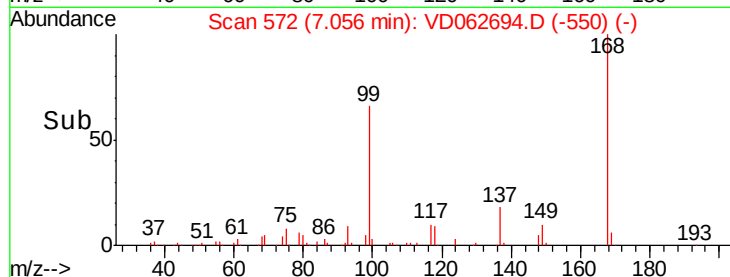
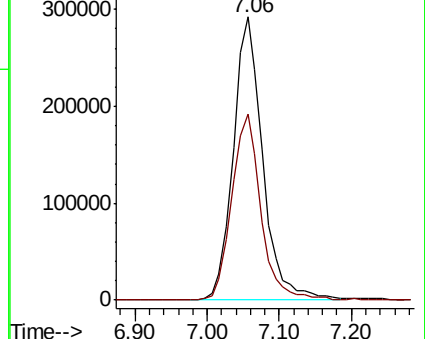
168 100

99 65.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 18

Delta R.T. 0.03 min

Lab File: VD062694.D

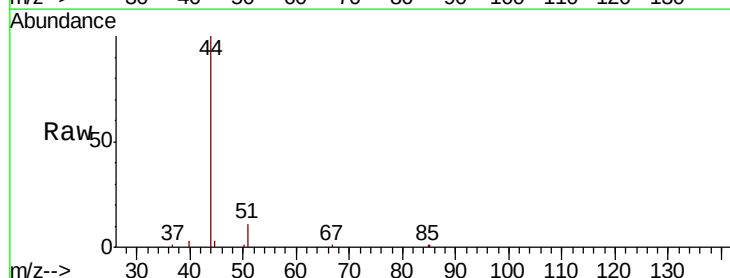
Acq: 13 Jun 2019 15:12

Tgt Ion: 85 Resp: 744

Ion Ratio Lower Upper

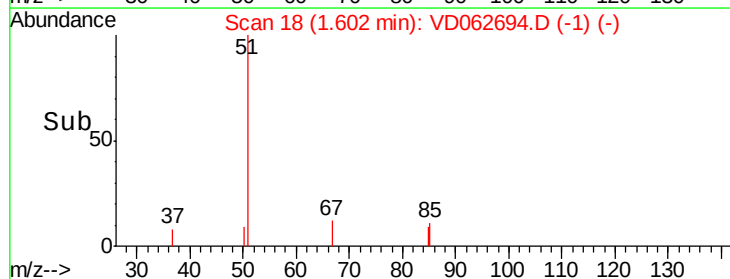
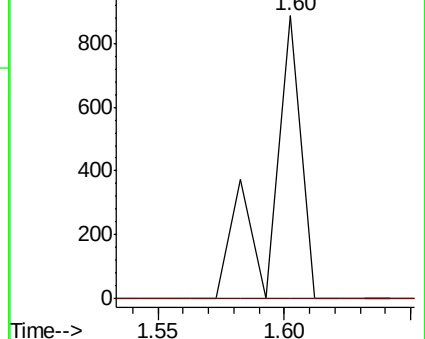
85 100

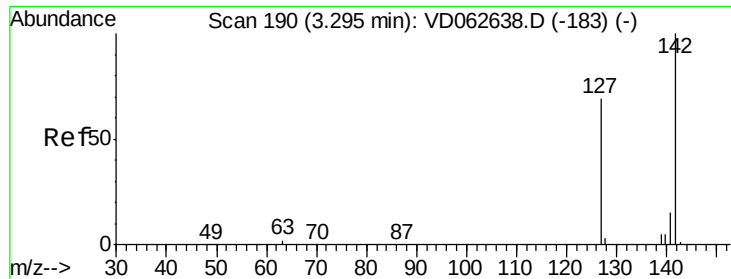
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

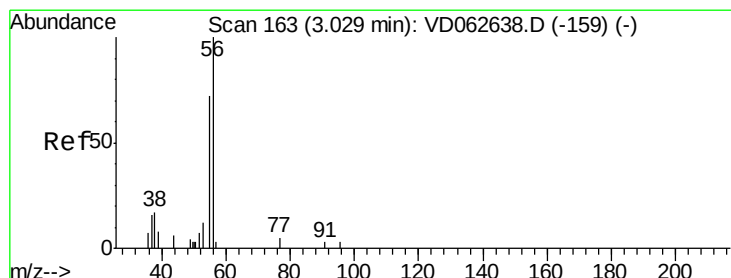
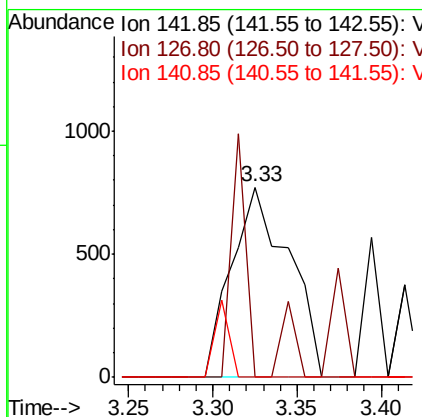
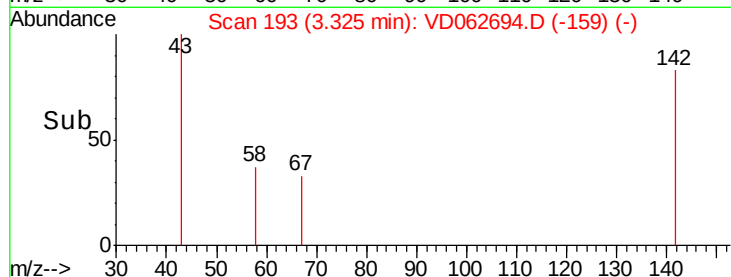
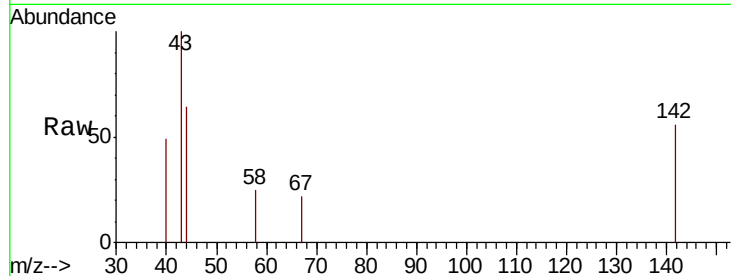




#10
Methyl Iodide
Concen: 4.121 ug/l
RT: 3.33 min Scan# 193
Delta R.T. 0.03 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

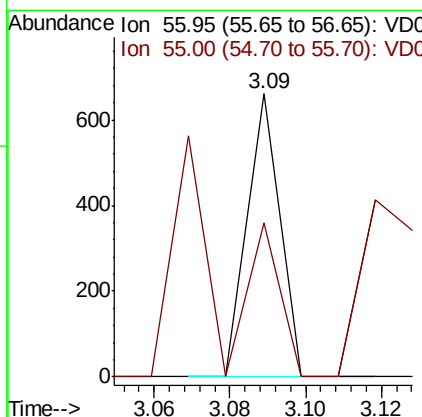
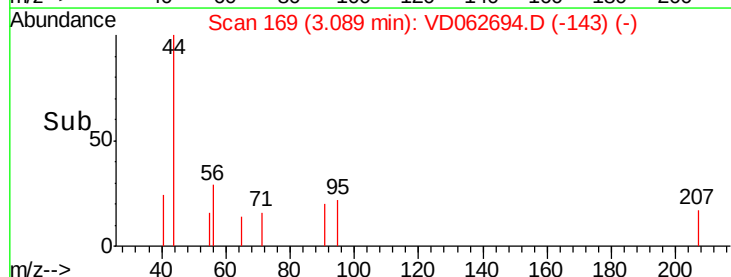
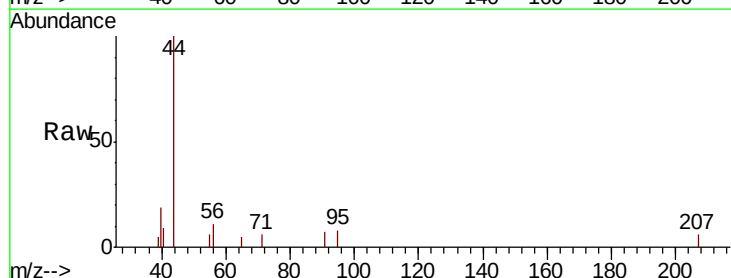
Instrument :
MSVOA_D
ClientSampled :

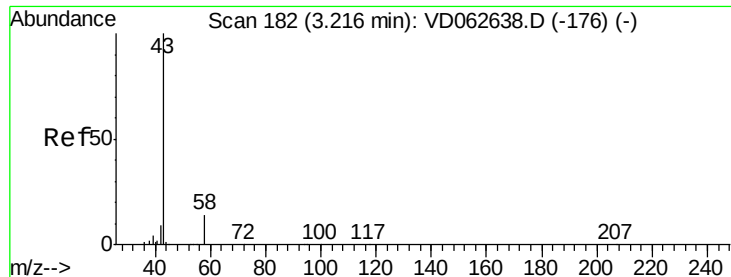
Tot Ion:142 Resp: 1820
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#13
Acrolein
Concen: 2.459 ug/l
RT: 3.09 min Scan# 169
Delta R.T. 0.06 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

Tgt Ion: 56 Resp: 390
Ion Ratio Lower Upper
56 100
55 54.6 59.4 89.0#





#16

Acetone

Concen: 42.514 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

Instrument :

MSVOA_D

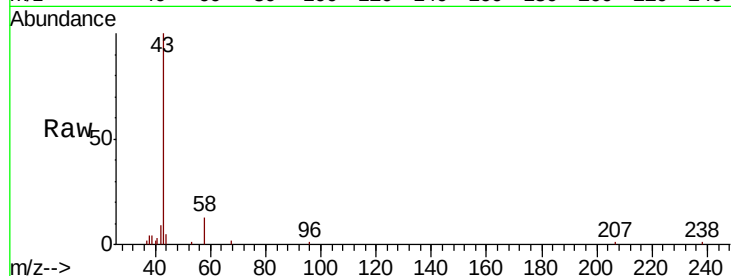
ClientSampleId :

Tot Ion: 43 Resp: 93387

Ion Ratio Lower Upper

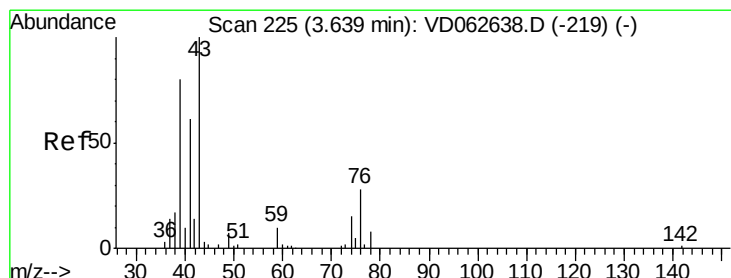
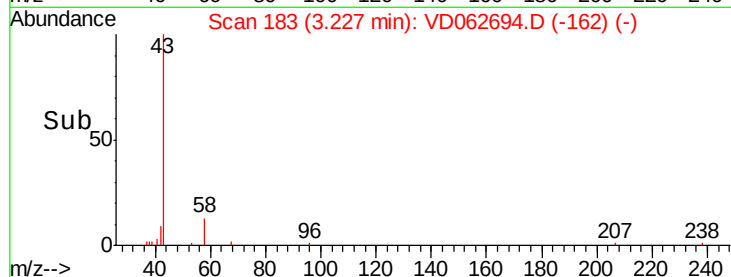
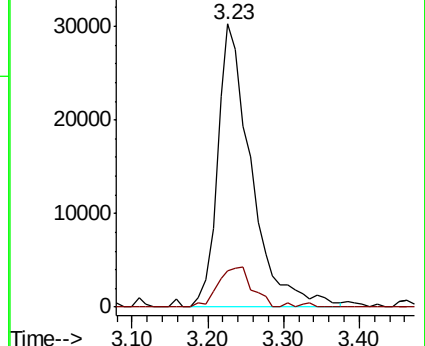
43 100

58 12.7 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.182 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD062694.D

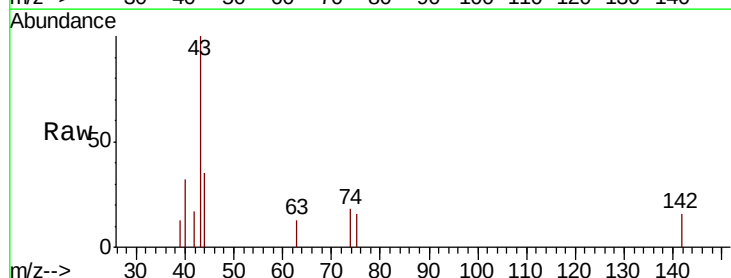
Acq: 13 Jun 2019 15:12

Tgt Ion: 43 Resp: 7877

Ion Ratio Lower Upper

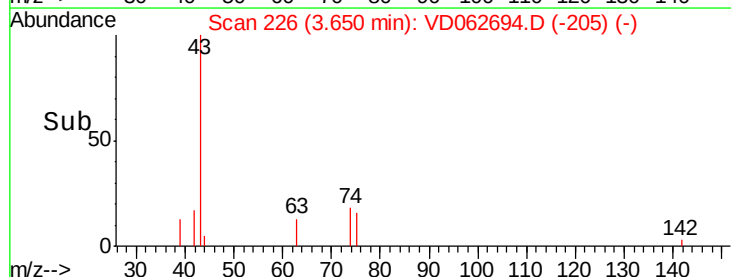
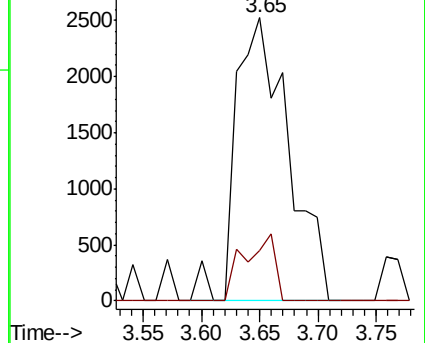
43 100

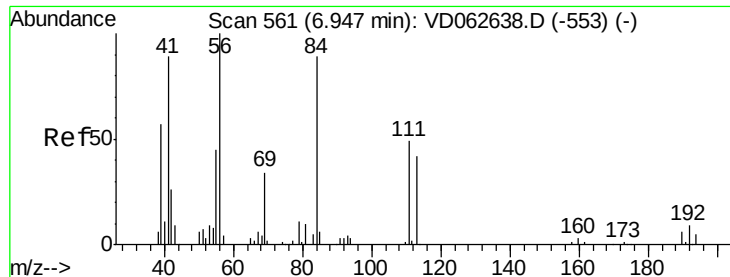
74 18.0 12.1 18.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

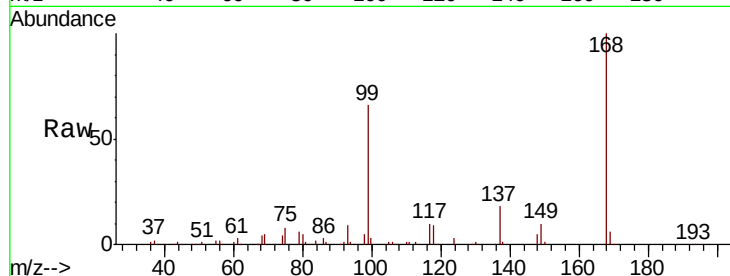




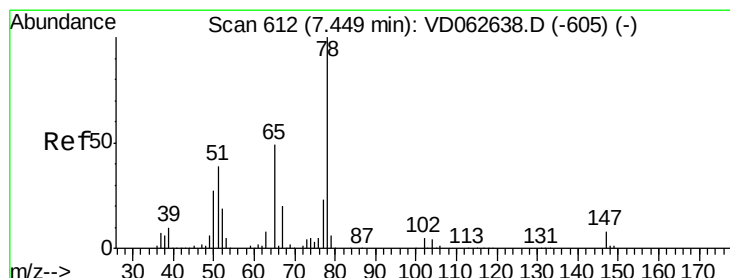
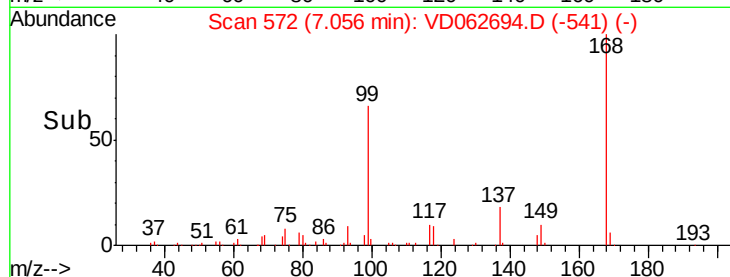
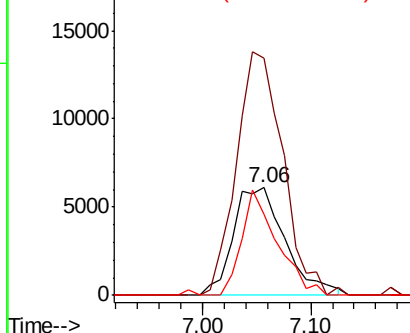
#31
Cyclohexane
Concen: 2.139 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.11 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 20248
Ion Ratio Lower Upper
56 100
69 220.6 26.8 40.2#
84 76.1 73.9 110.9

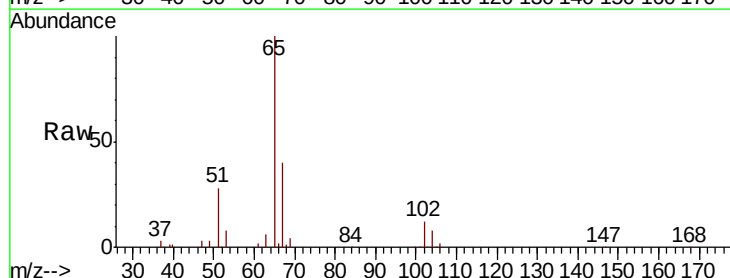


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

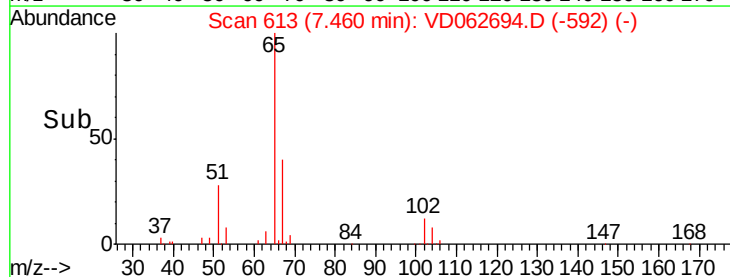
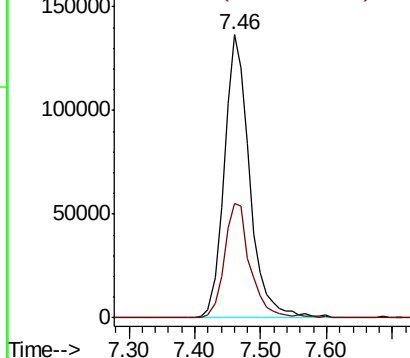


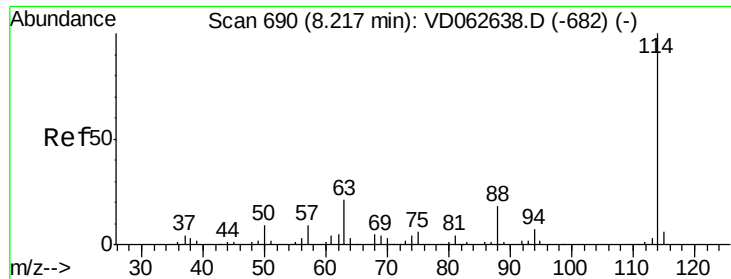
#33
1,2-Dichloroethane-d4
Concen: 30.634 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

Tgt Ion: 65 Resp: 367478
Ion Ratio Lower Upper
65 100
67 40.4 0.0 81.8



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

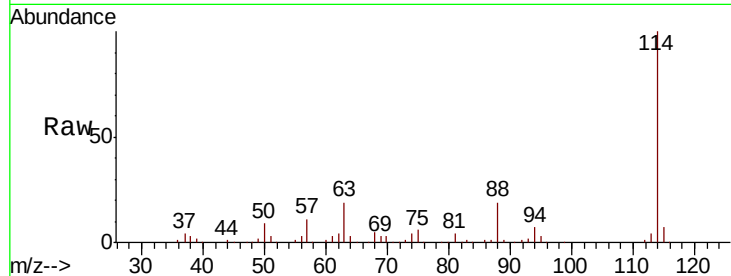




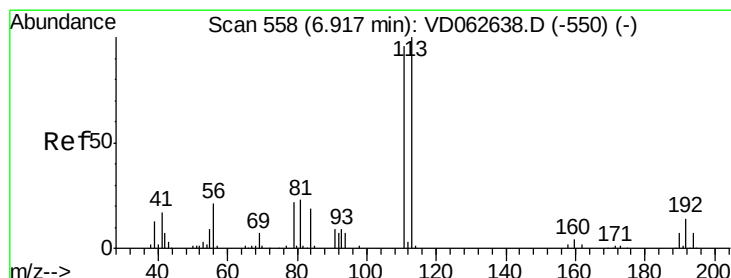
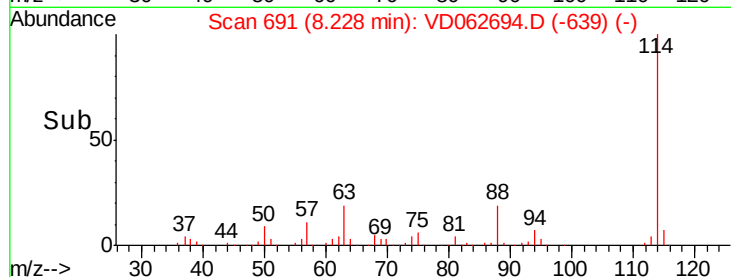
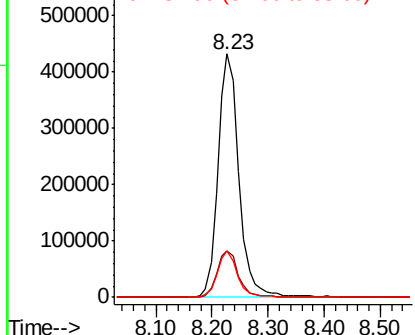
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062694.D
 Acq: 13 Jun 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 1121255
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 42.4
 88 19.2 0.0 36.8

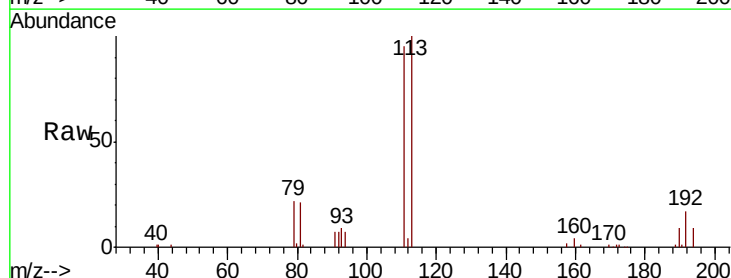


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

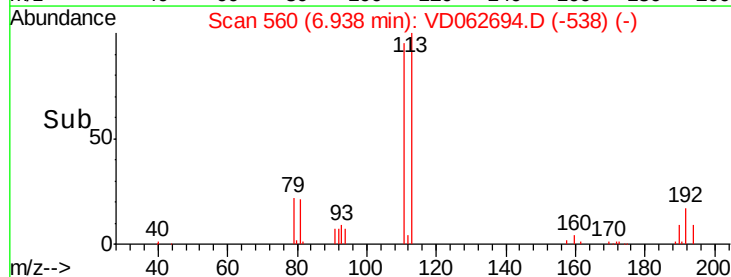
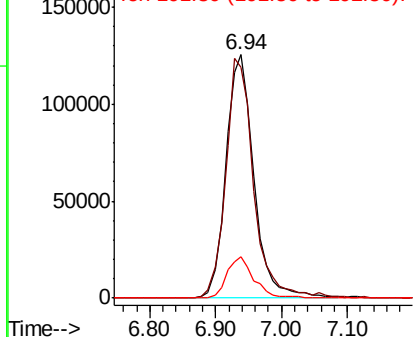


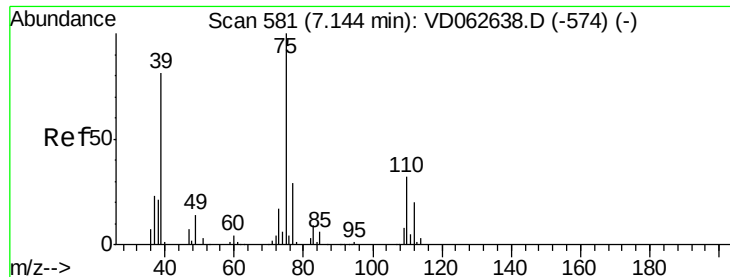
#35
 Dibromofluoromethane
 Concen: 31.528 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.02 min
 Lab File: VD062694.D
 Acq: 13 Jun 2019 15:12

Tgt Ion:113 Resp: 372822
 Ion Ratio Lower Upper
 113 100
 111 94.9 76.4 114.6
 192 17.0 11.4 17.0



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: 5.228 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

Instrument :

MSVOA_D

ClientSampled :

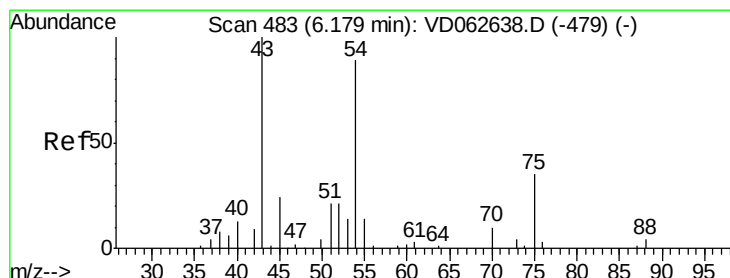
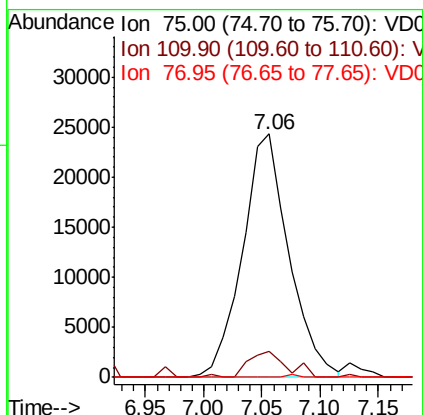
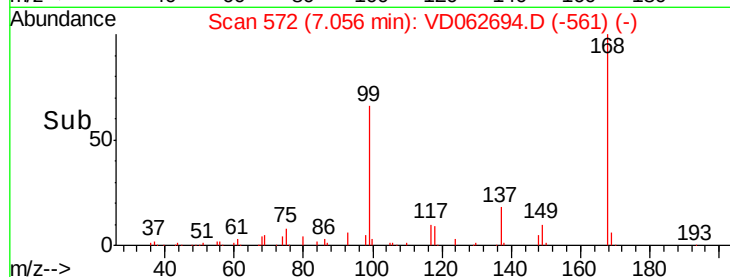
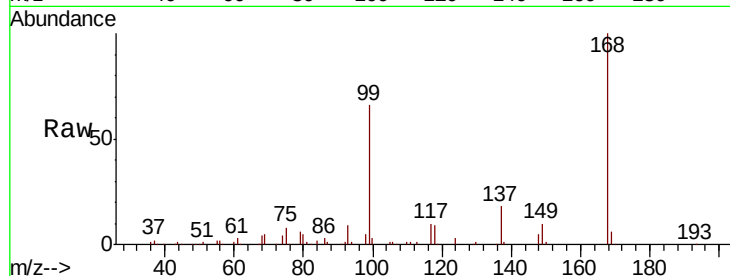
Tot Ion: 75 Resp: 67093

Ion Ratio Lower Upper

75 100

110 10.6 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.625 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

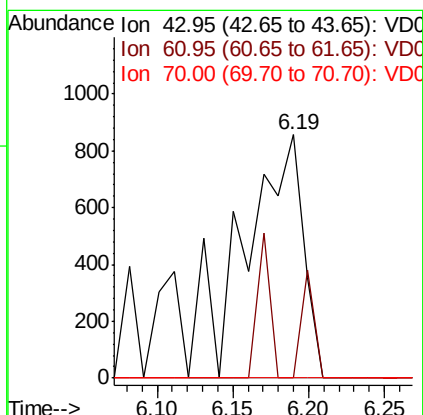
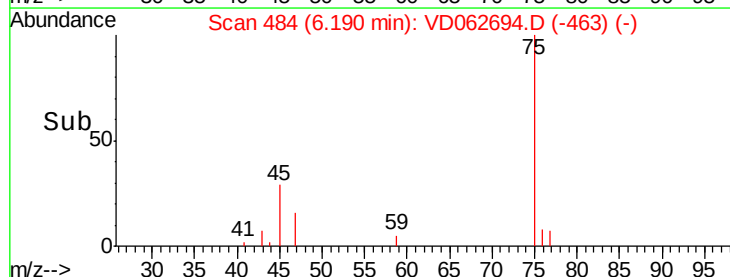
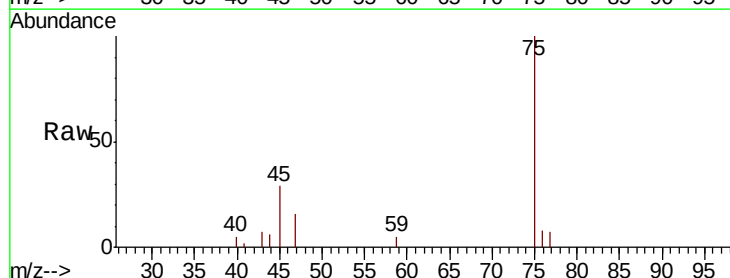
Tgt Ion: 43 Resp: 2377

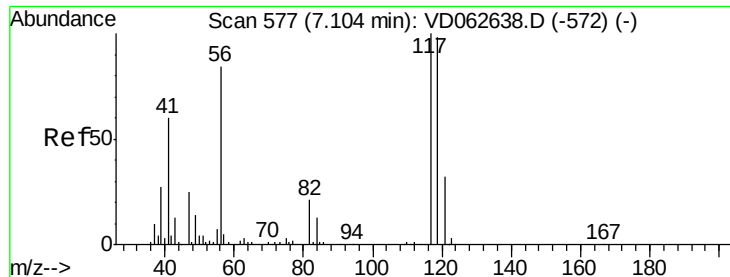
Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

70 0.0 6.5 9.7#

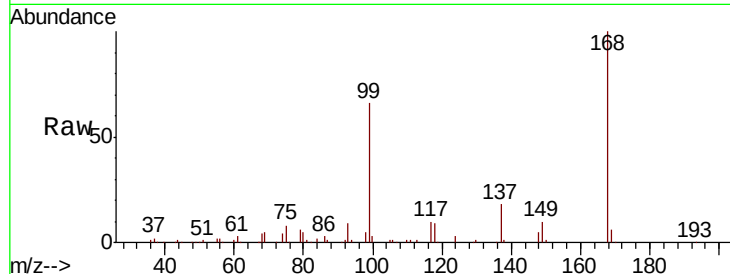




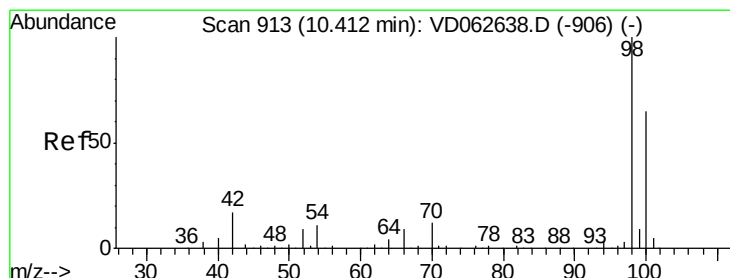
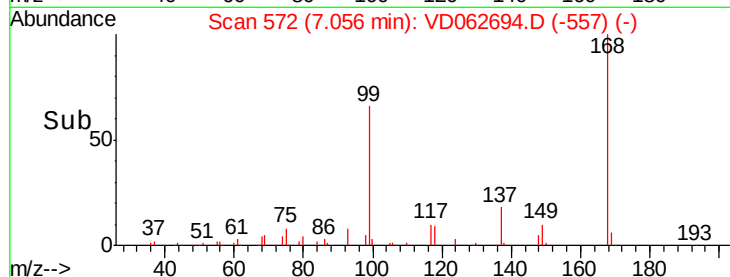
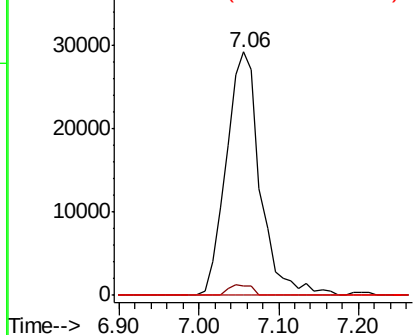
#38
Carbon Tetrachloride
Concen: 4.290 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 87025
Ion Ratio Lower Upper
117 100
119 3.6 73.5 110.3#
121 0.0 24.2 36.4#

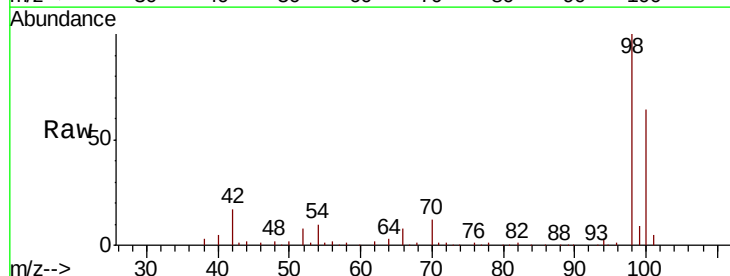


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

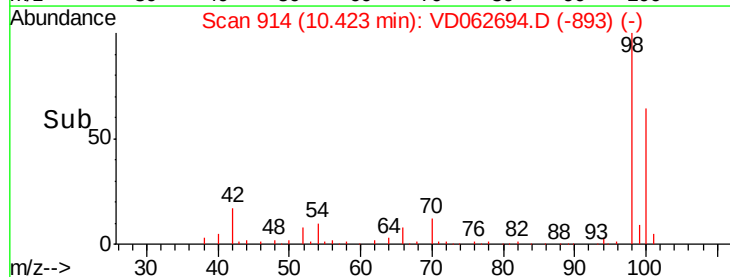
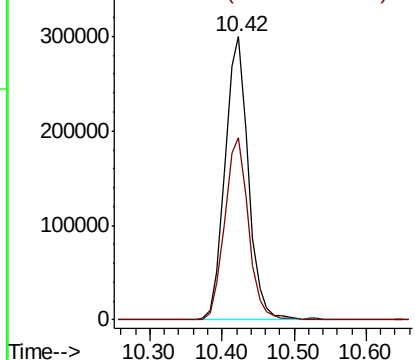


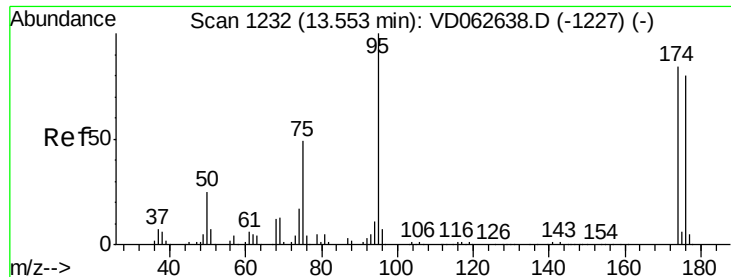
#50
Toluene-d8
Concen: 26.991 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD062694.D
Acq: 13 Jun 2019 15:12

Tgt Ion: 98 Resp: 671436
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



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





#62

4-Bromofluorobenzene

Concen: 25.181 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

Instrument :

MSVOA_D

ClientSampled :

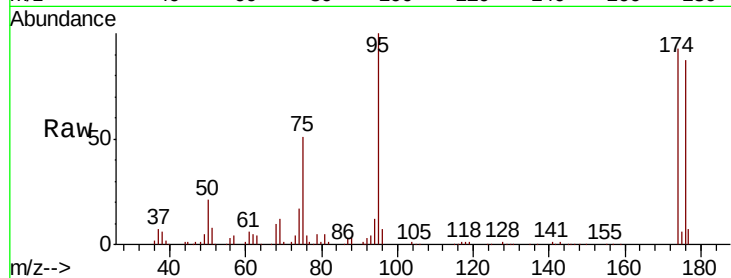
Tot Ion: 95 Resp: 292239

Ion Ratio Lower Upper

95 100

174 93.0 0.0 167.0

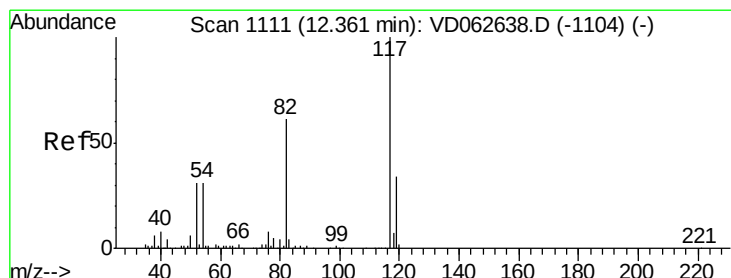
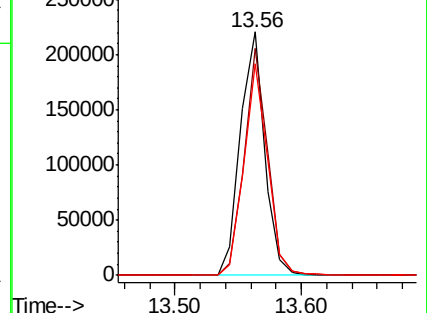
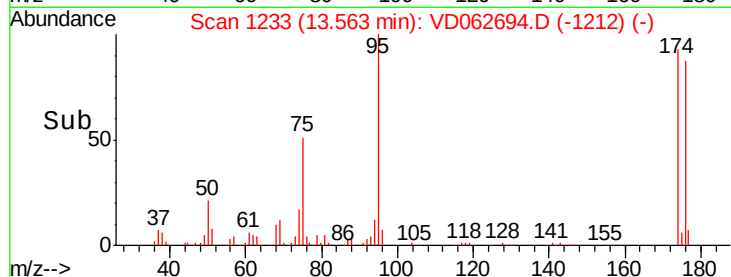
176 86.7 0.0 159.2



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# 1112

Delta R.T. 0.01 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

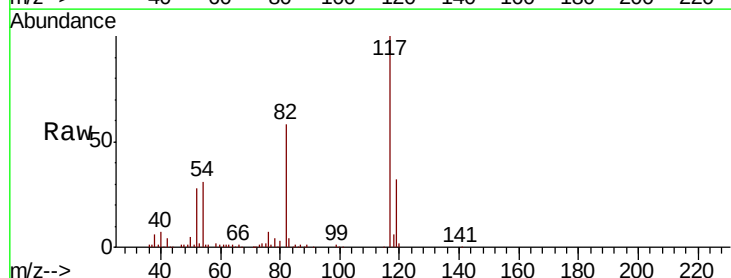
Tgt Ion: 117 Resp: 852267

Ion Ratio Lower Upper

117 100

82 58.0 48.7 73.1

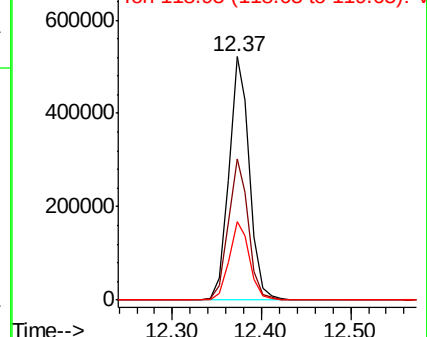
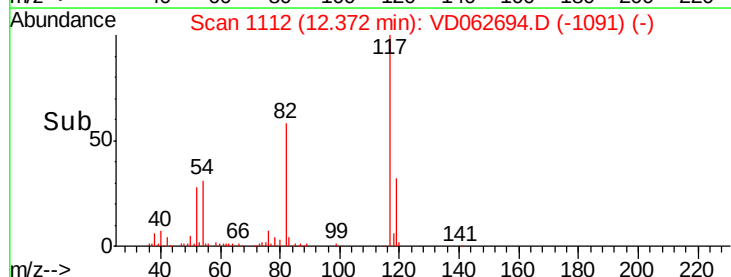
119 32.2 27.0 40.6

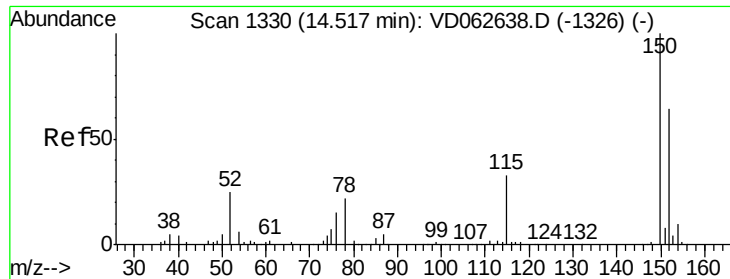


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD062694.D

Acq: 13 Jun 2019 15:12

Instrument :

MSVOA_D

ClientSampleId :

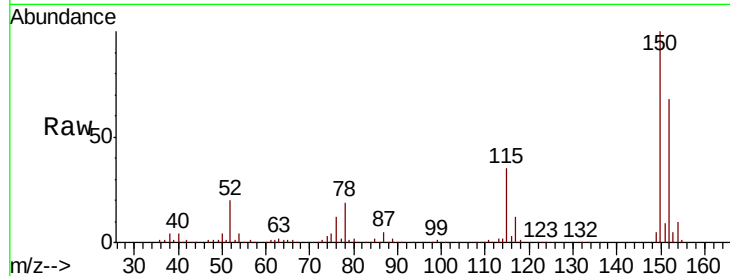
Tot Ion:152 Resp: 382754

Ion Ratio Lower Upper

152 100

115 52.5 30.1 90.5

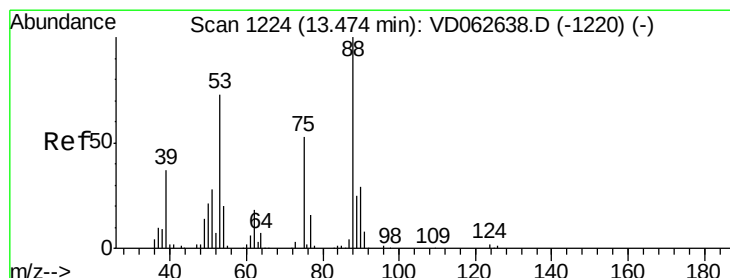
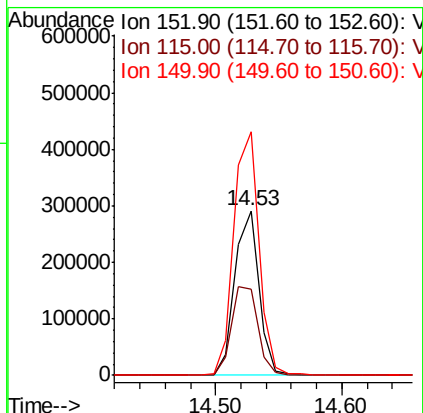
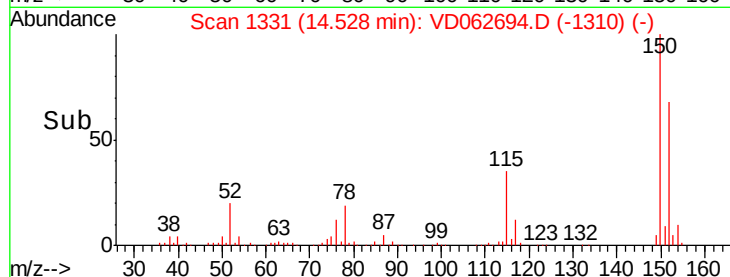
150 148.0 0.0 314.0



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: 92.385 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062694.D

Acq: 13 Jun 2019 15:12

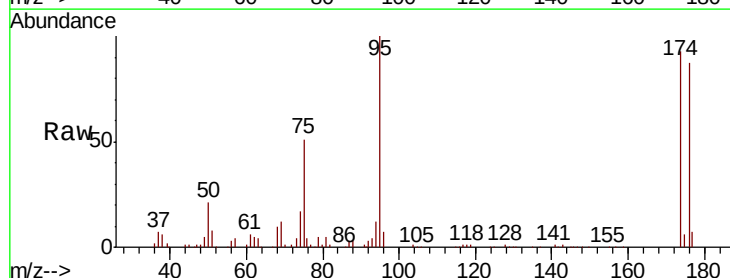
Tgt Ion: 75 Resp: 147696

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

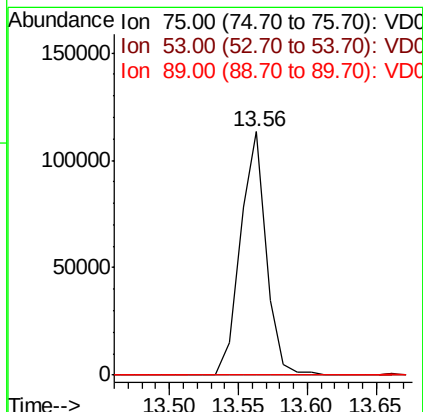
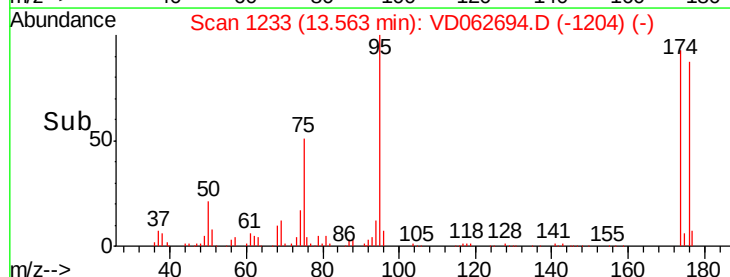
89 0.0 37.0 55.6#

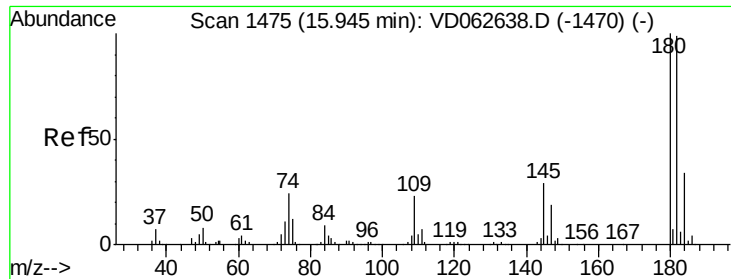


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

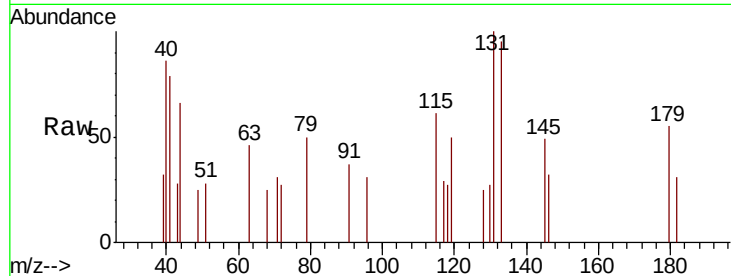




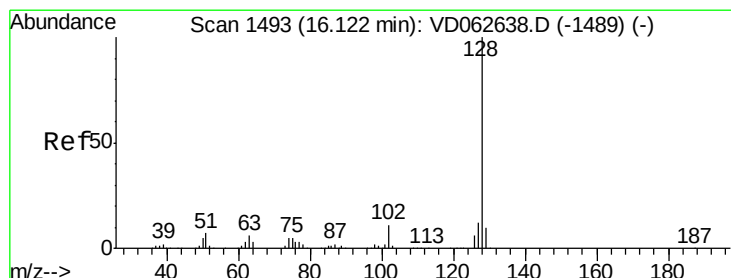
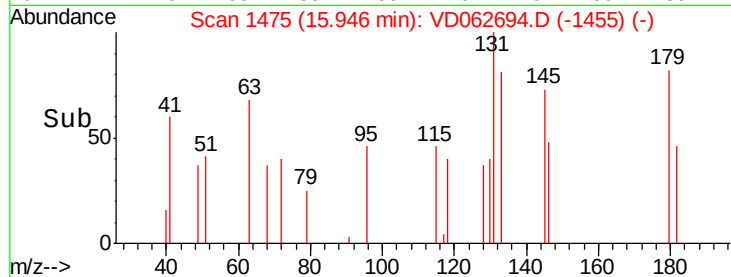
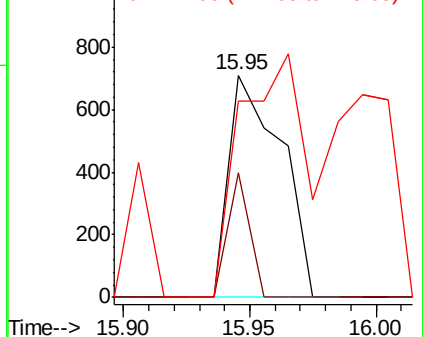
#93
 1,2,4-Trichlorobenzene
 Concen: 3.665 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062694.D
 Acq: 13 Jun 2019 15:12

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 1027
 Ion Ratio Lower Upper
 180 100
 182 56.1 49.4 148.2
 145 88.6 14.5 43.6#

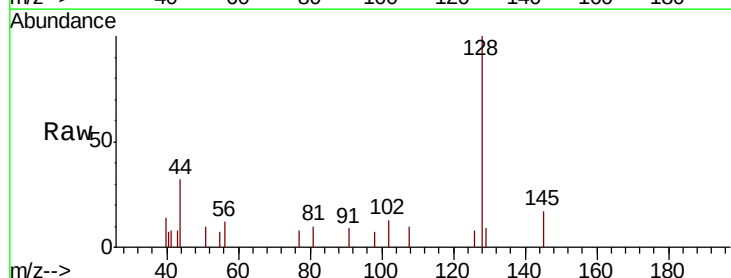


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.805 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062694.D
 Acq: 13 Jun 2019 15:12

Tgt Ion:128 Resp: 5304
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 8.6 8.1 12.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

