

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062749.D
 Acq On : 18 Jun 2019 15:04
 Operator : VA/AP
 Sample : K3420-01RE
 Misc : 5.89g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:25:20 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	7.05	168	236871	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	370028	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	356643	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	202264	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	208501	61.00	ug/l	0.00
Spiked Amount			Recovery	=	122.00%	
35) Dibromofluoromethane	6.93	113	165504	42.41	ug/l	0.01
Spiked Amount			Recovery	=	84.82%	
50) Toluene-d8	10.41	98	318200	38.76	ug/l	0.00
Spiked Amount			Recovery	=	77.52%	
62) 4-Bromofluorobenzene	13.55	95	178827	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	

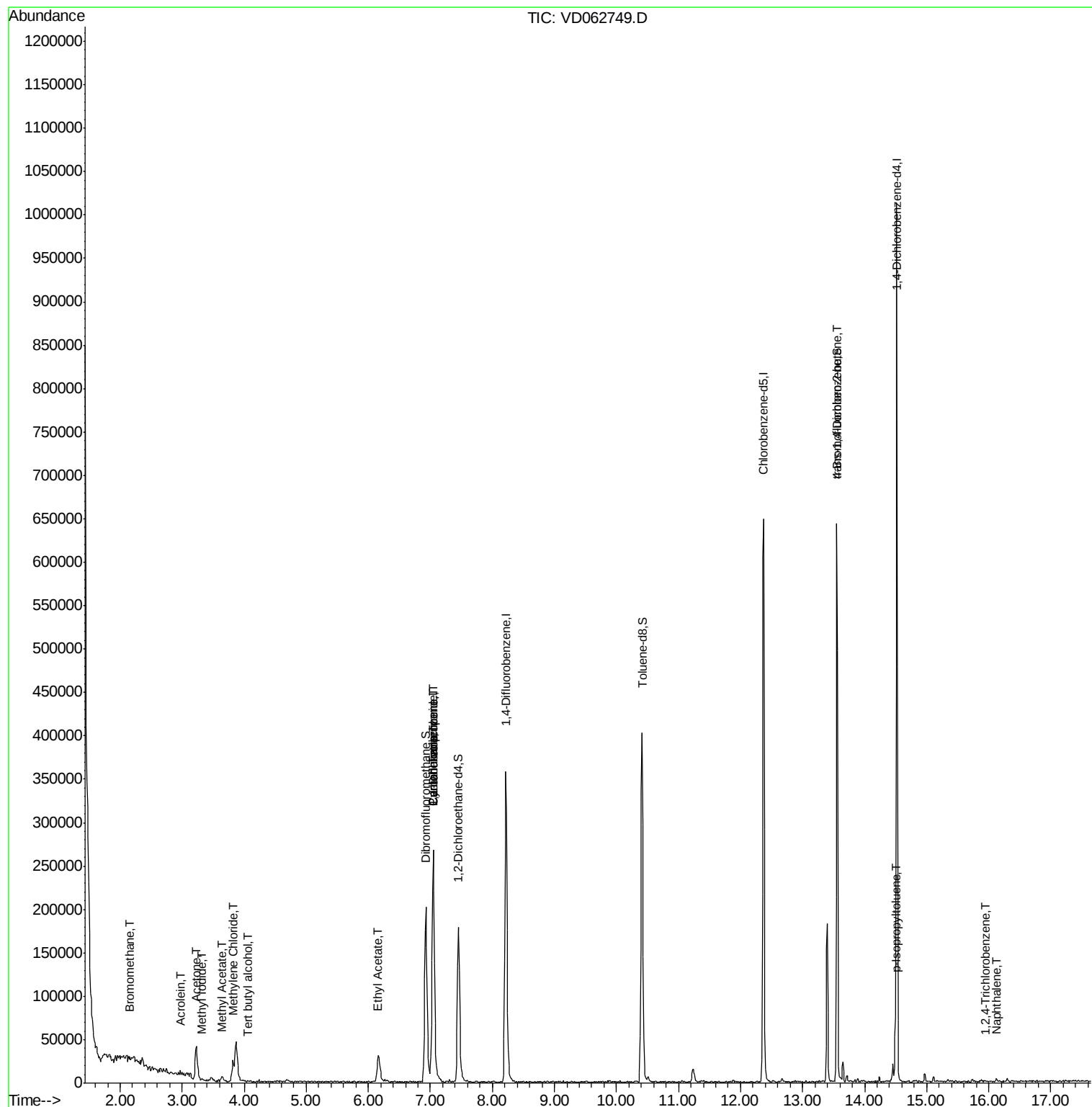
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	1349	1.106	ug/l #	11
10) Methyl Iodide	3.32	142	1203	4.270	ug/l #	24
11) Tert butyl alcohol	4.06	59	383	2.726	ug/l #	61
13) Acrolein	2.96	56	199	4.403	ug/l #	70
16) Acetone	3.23	43	77439	123.725	ug/l	98
18) Methyl Acetate	3.63	43	9404	9.142	ug/l #	64
20) Methylene Chloride	3.82	84	11984	4.667	ug/l #	69
31) Cyclohexane	7.05	56	5517	2.045	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	19685	4.648	ug/l #	55
37) Ethyl Acetate	6.17	43	1622	2.078	ug/l #	74
38) Carbon Tetrachloride	7.05	117	24540	3.666	ug/l #	18
81) trans-1,4-Dichloro-2-buten	13.55	75	83530	98.599	ug/l #	1
86) p-Isopropyltoluene	14.49	119	22684	1.599	ug/l	92
93) 1,2,4-Trichlorobenzene	15.95	180	598	3.675	ug/l #	71
95) Naphthalene	16.12	128	2467	3.762	ug/l #	71

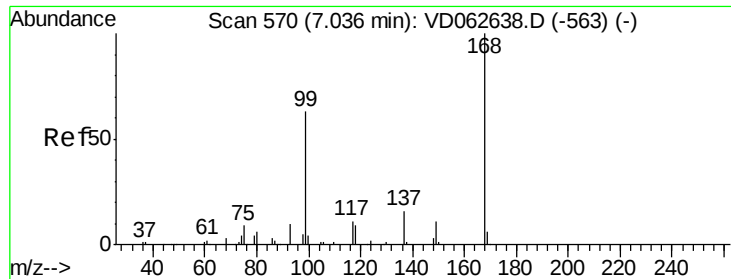
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD062749.D

Acq: 18 Jun 2019 15:04

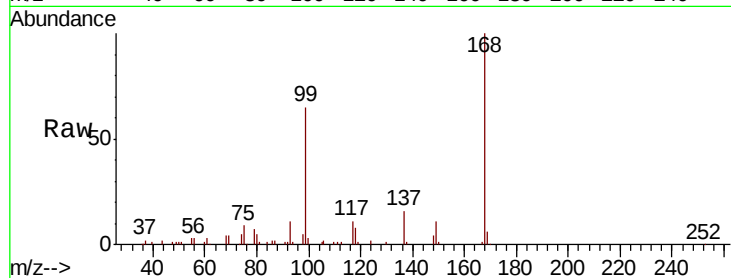
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 236871

Ion Ratio Lower Upper

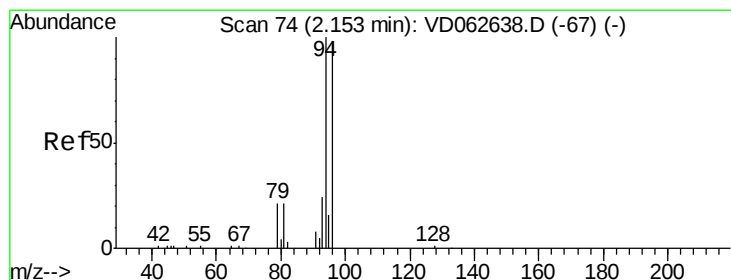
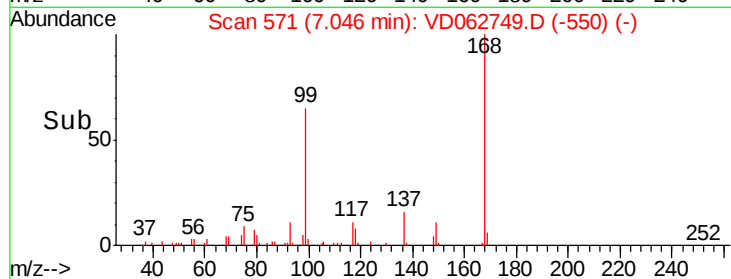
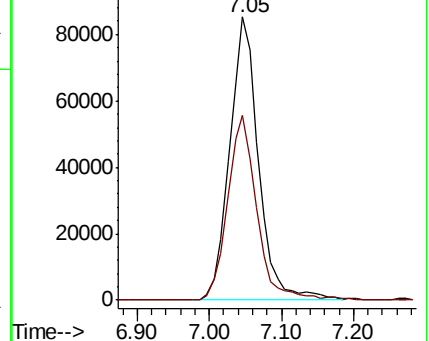
168 100

99 65.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.106 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

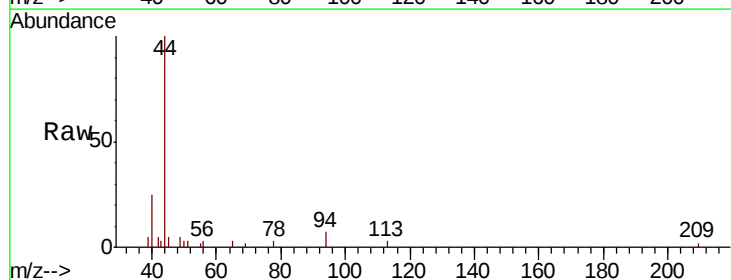
Tgt Ion: 94 Resp: 1349

Ion Ratio Lower Upper

94 100

96 0.0 78.1 117.1#

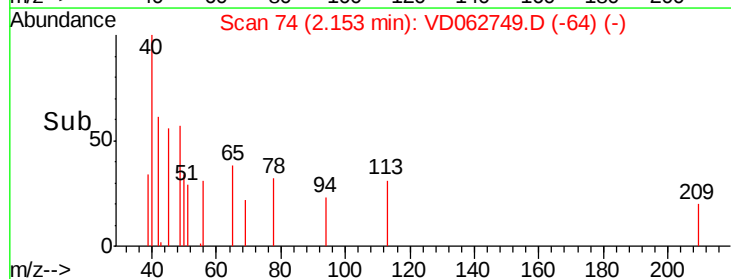
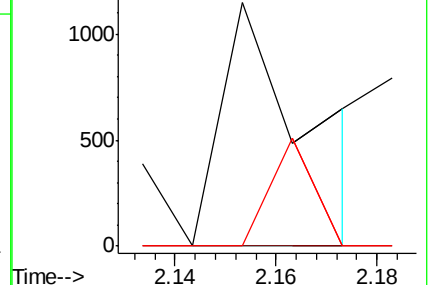
93 0.0 19.6 29.4#

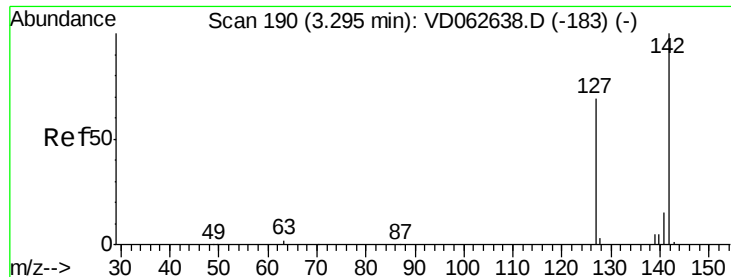


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

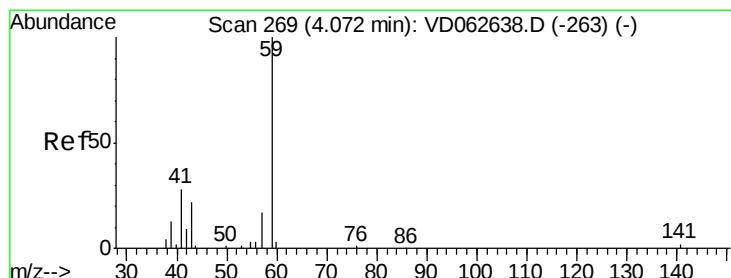
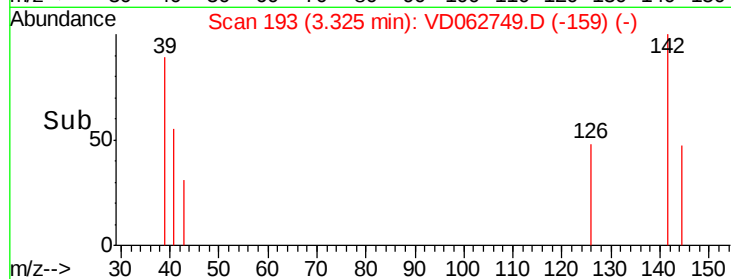
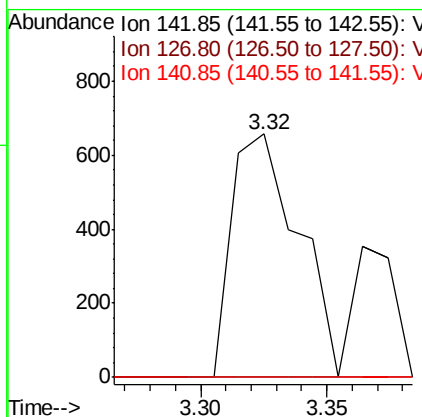
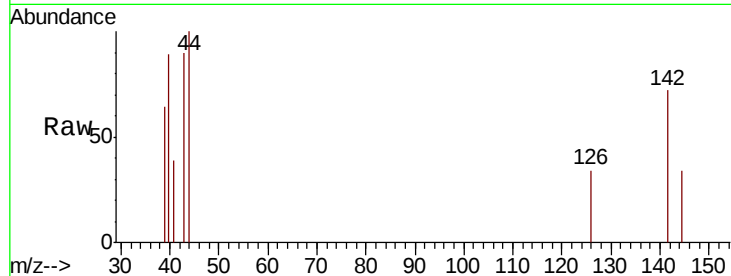




#10
Methvl Iodide
Concen: 4.270 ug/l
RT: 3.32 min Scan# 193
Delta R.T. 0.03 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

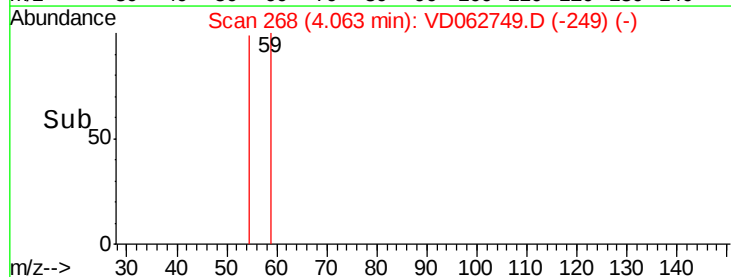
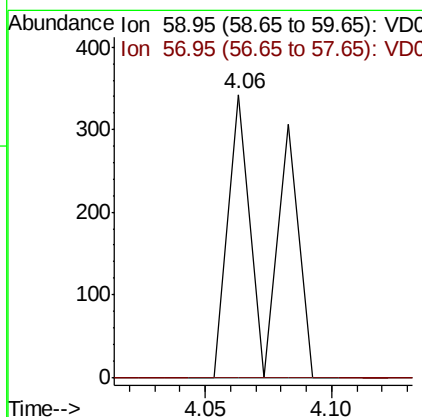
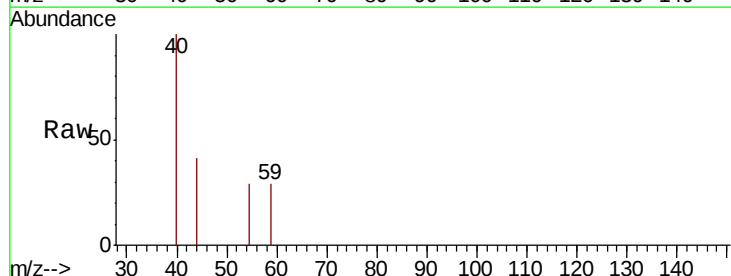
Instrument :
MSVOA_D
ClientSampleId :

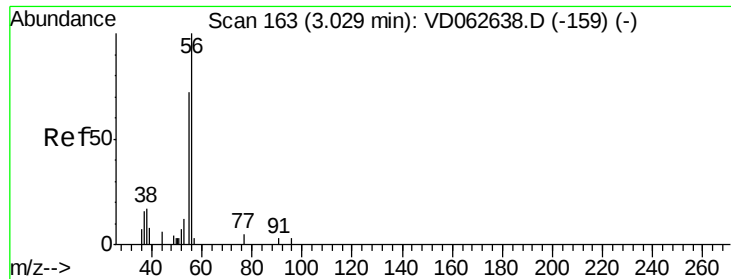
Tot Ion:142 Resp: 1203
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 2.726 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

Tgt Ion: 59 Resp: 383
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 4.403 ug/l

RT: 2.96 min Scan# 156

Delta R.T. -0.07 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

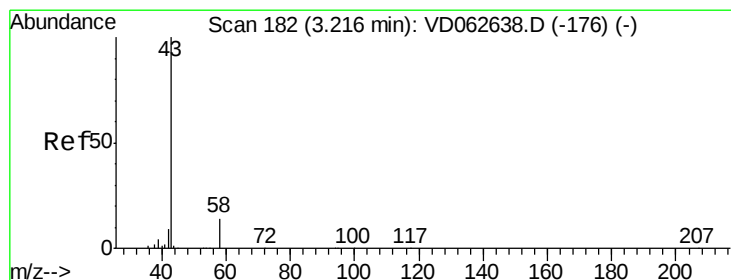
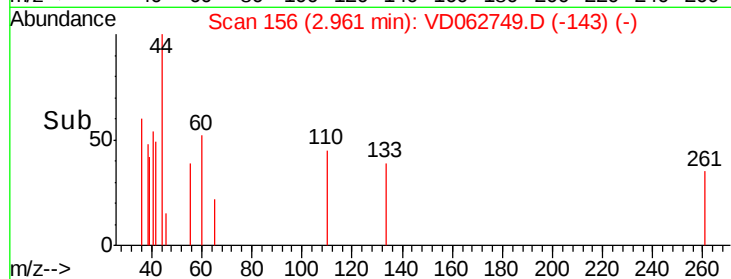
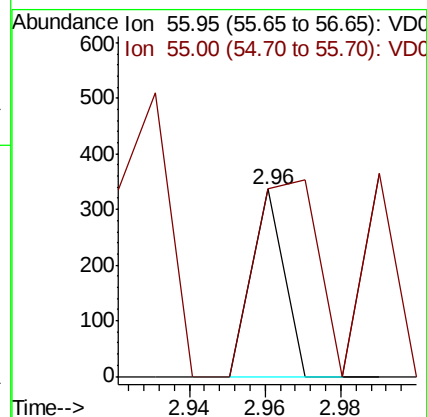
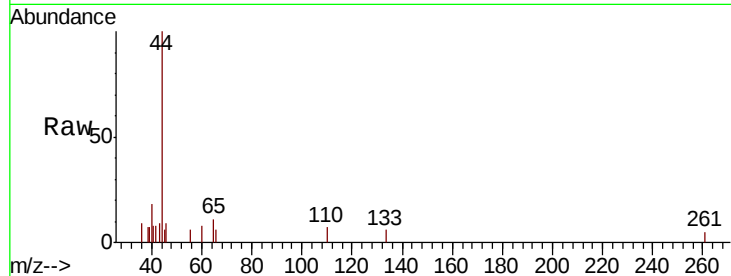
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 100.0 59.4 89.0#



#16

Acetone

Concen: 123.725 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062749.D

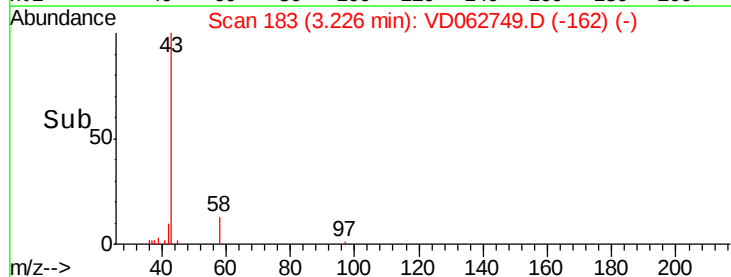
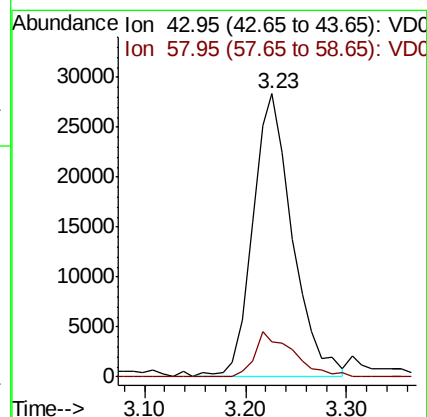
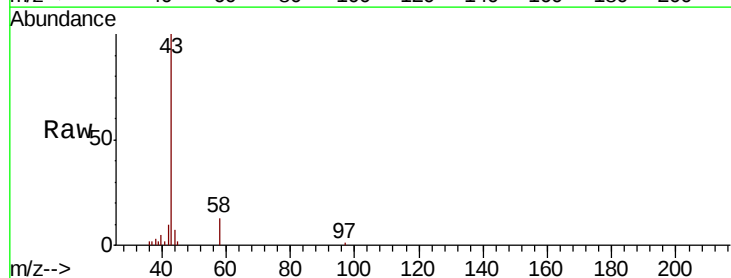
Acq: 18 Jun 2019 15:04

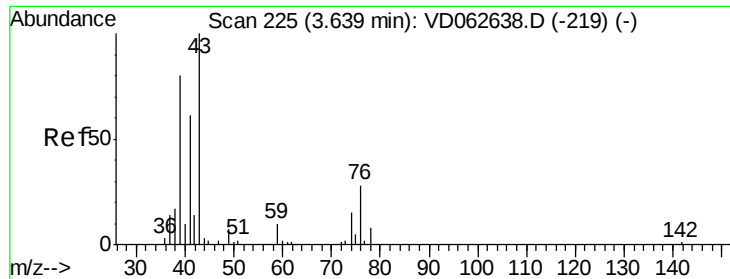
Tgt Ion: 43 Resp: 77439

Ion Ratio Lower Upper

43 100

58 12.5 10.8 16.2

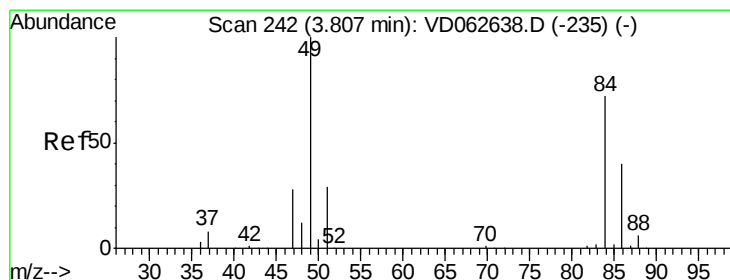
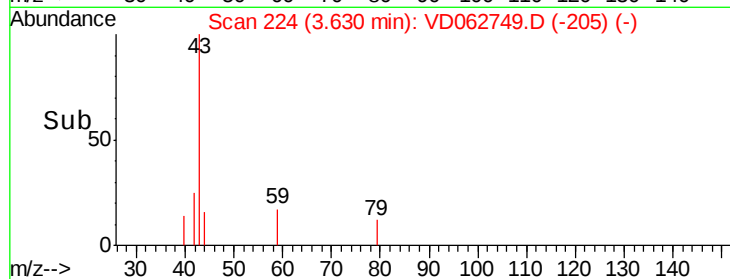
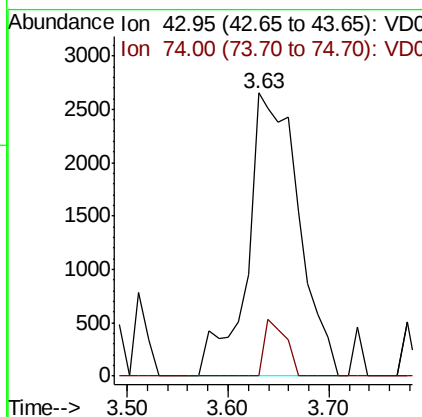
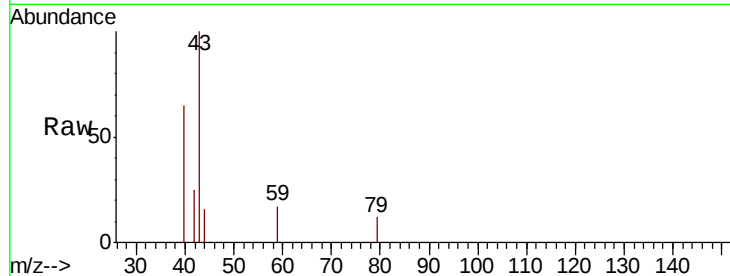




#18
Methyl Acetate
Concen: 9.142 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

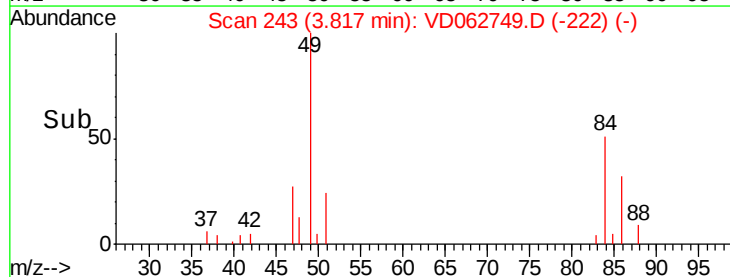
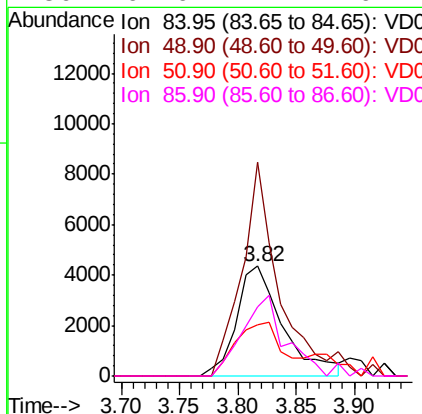
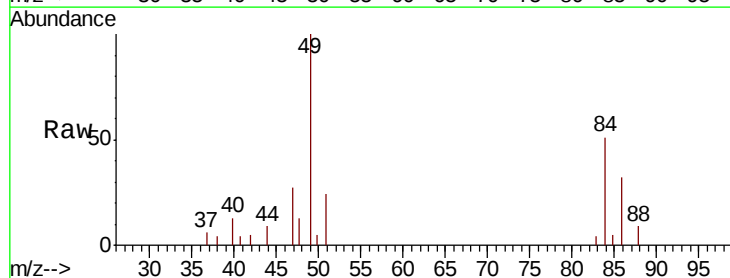
Instrument :
MSVOA_D
ClientSampleId :

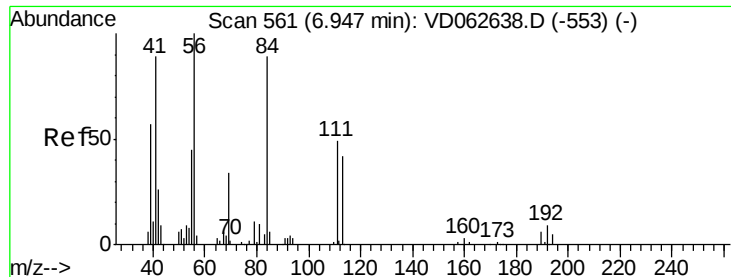
Tot Ion: 43 Resp: 9404
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 4.667 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

Tgt Ion: 84 Resp: 11984
Ion Ratio Lower Upper
84 100
49 194.6 111.2 166.8#
51 47.0 31.9 47.9
86 62.6 44.7 67.1





#31

Cyclohexane

Concen: 2.045 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.10 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

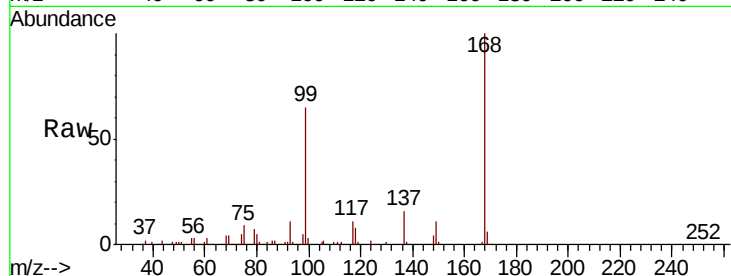
Tot Ion: 56 Resp: 5517

Ion Ratio Lower Upper

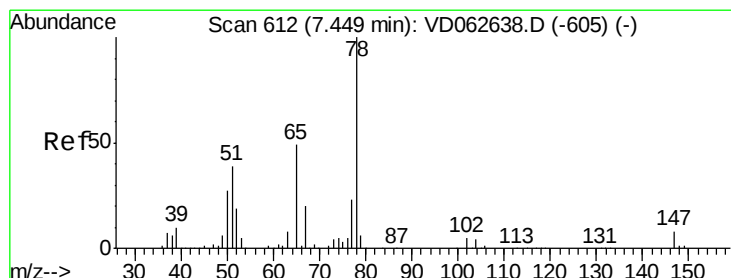
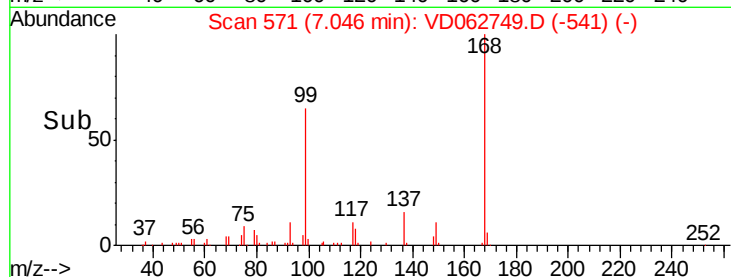
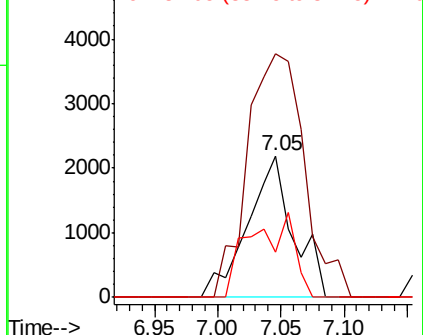
56 100

69 172.1 26.8 40.2#

84 32.2 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: 61.000 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD062749.D

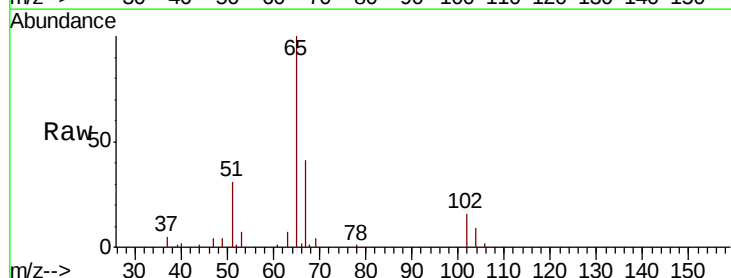
Acq: 18 Jun 2019 15:04

Tgt Ion: 65 Resp: 208501

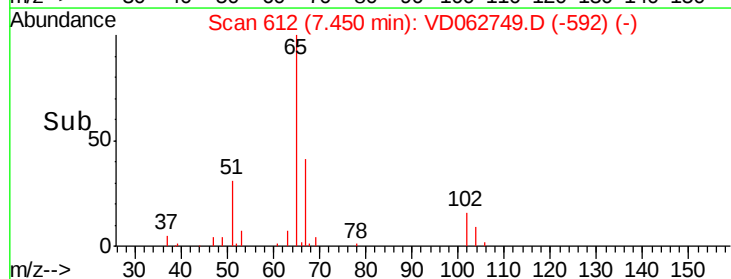
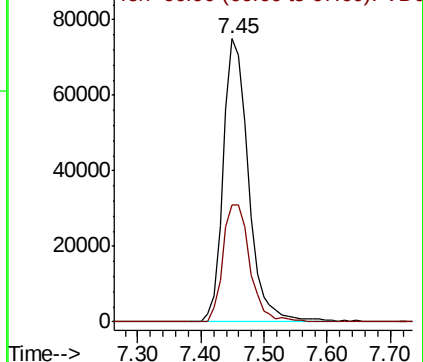
Ion Ratio Lower Upper

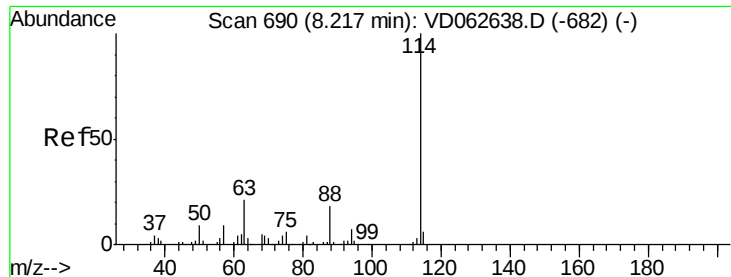
65 100

67 41.5 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: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

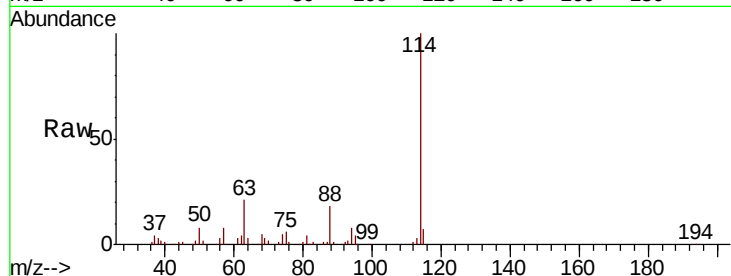
Tot Ion:114 Resp: 370028

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

88 17.9 0.0 36.8

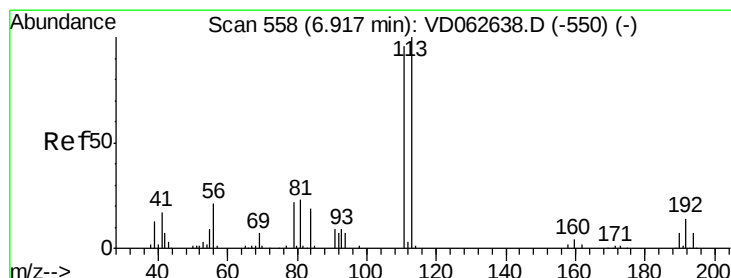
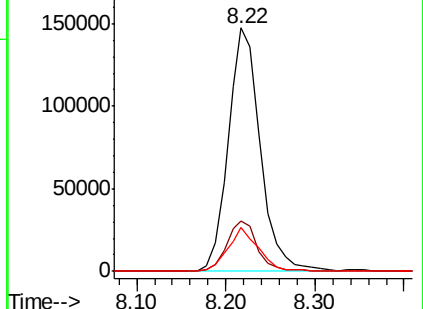
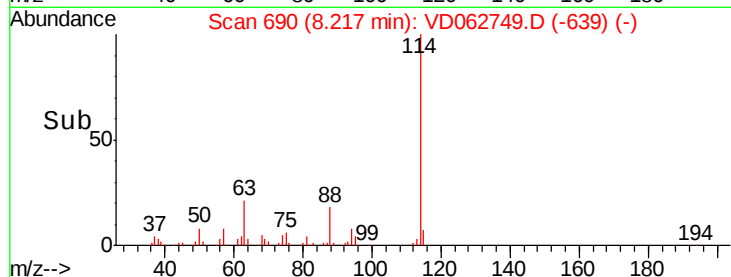


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

8.22



#35

Dibromofluoromethane

Concen: 42.410 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

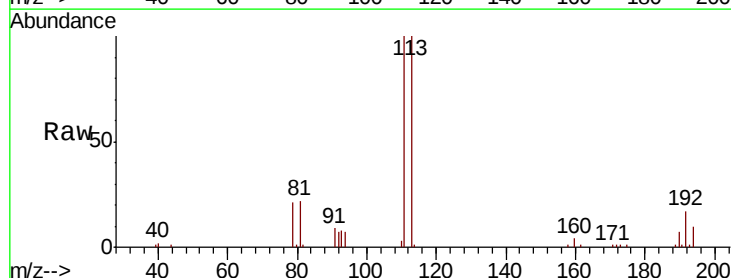
Tgt Ion:113 Resp: 165504

Ion Ratio Lower Upper

113 100

111 99.6 76.4 114.6

192 16.6 11.4 17.0

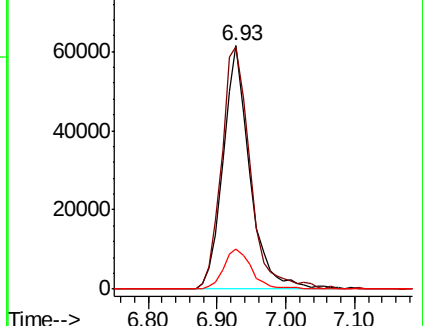
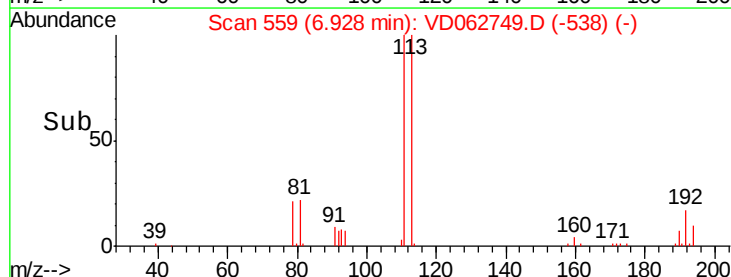


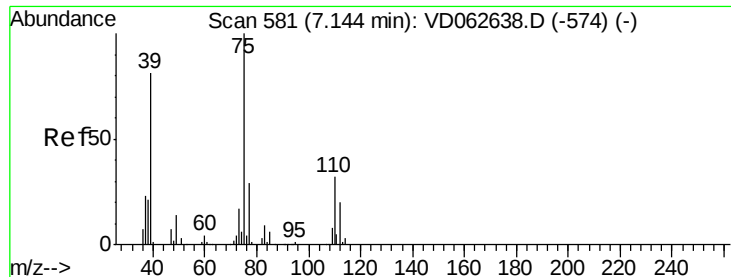
Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

6.93





#36

1,1-Dichloropropene

Concen: 4.648 ug/l

RT: 7.05 min Scan# 571

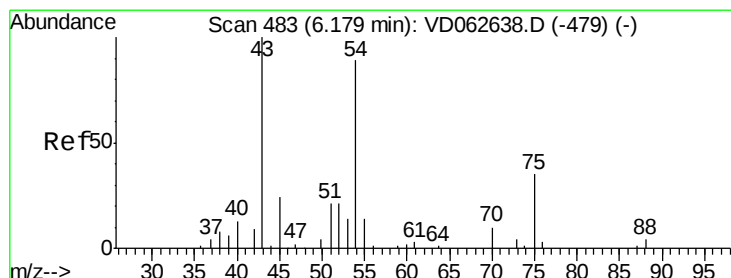
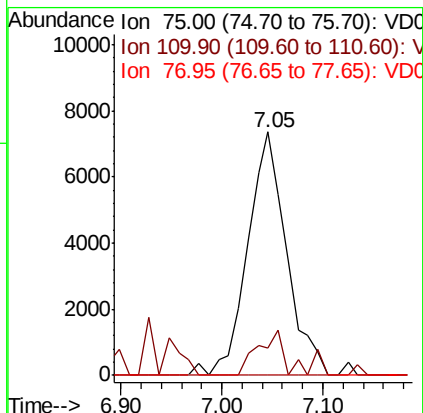
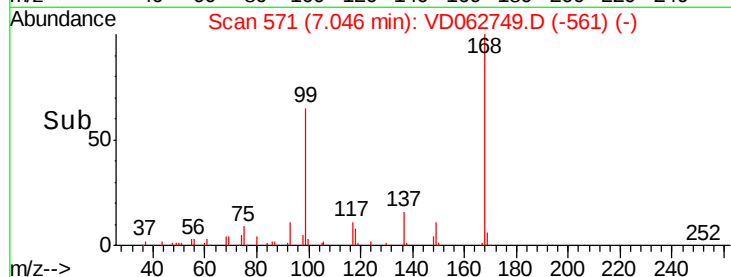
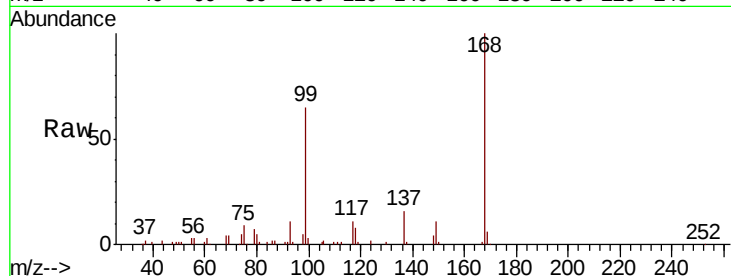
Delta R.T. -0.10 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Instrument :
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Tot Ion:	75	Resp:	19685
Ion	Ratio	Lower	Upper
75	100		
110	11.2	15.9	47.7#
77	0.0	23.3	34.9#



#37

Ethyl Acetate

Concen: 2.078 ug/l

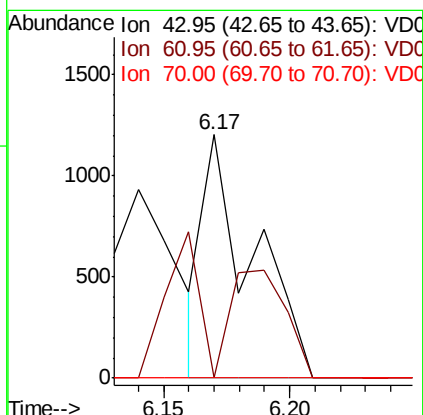
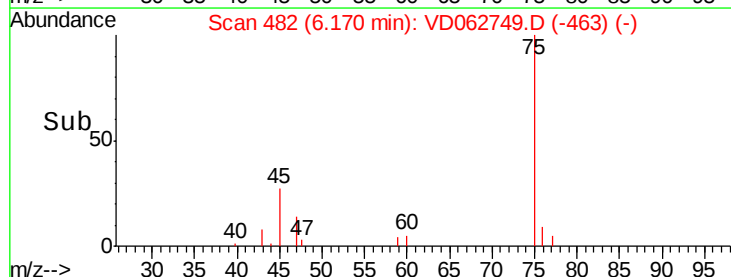
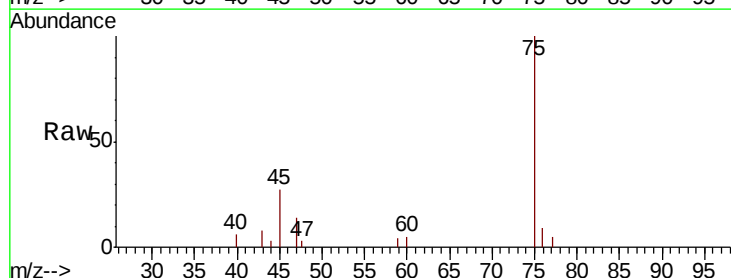
RT: 6.17 min Scan# 482

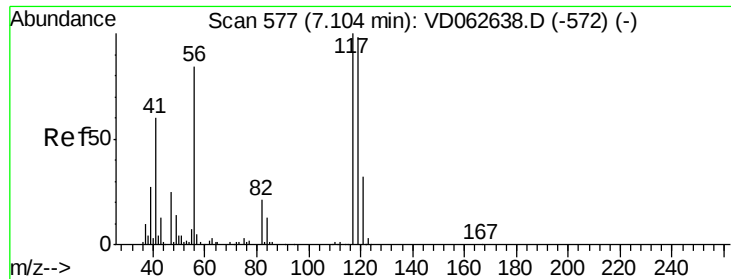
Delta R.T. -0.01 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Tgt Ion:	43	Resp:	1622
Ion	Ratio	Lower	Upper
43	100		
61	0.0	8.7	13.1#
70	0.0	6.5	9.7#

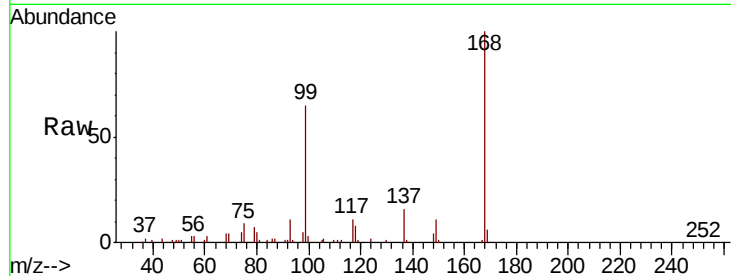




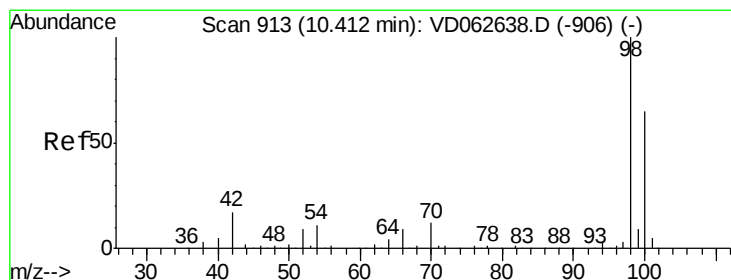
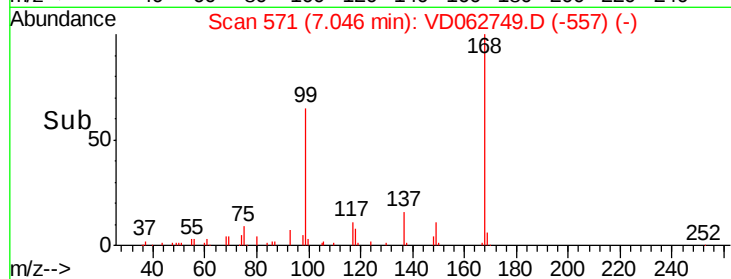
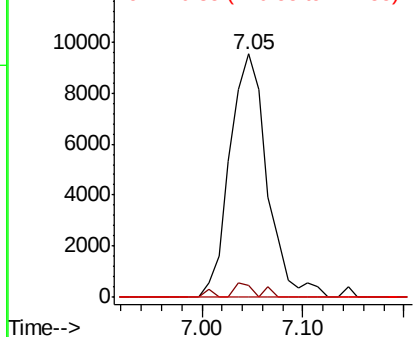
#38
Carbon Tetrachloride
Concen: 3.666 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 24540
Ion Ratio Lower Upper
117 100
119 4.9 73.5 110.3#
121 0.0 24.2 36.4#

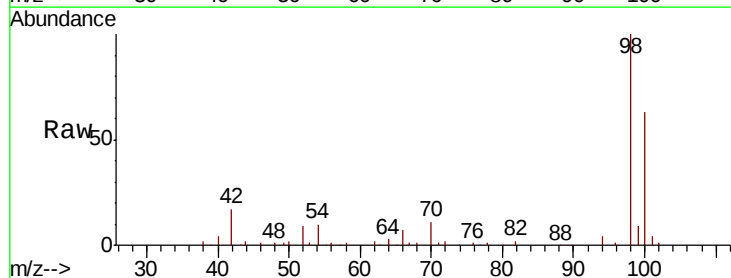


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

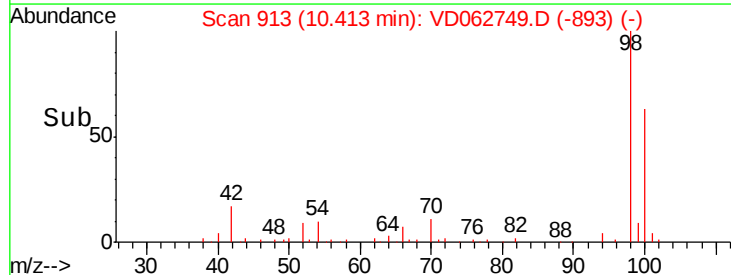
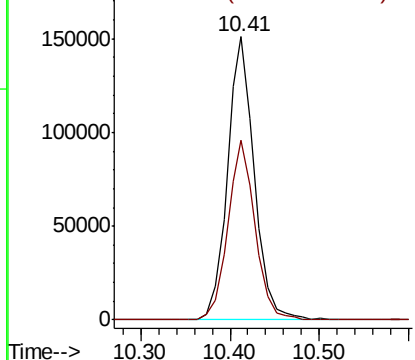


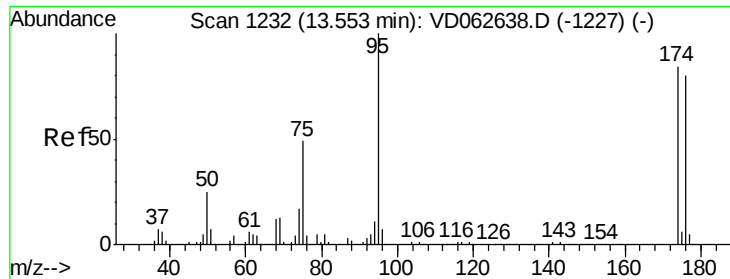
#50
Toluene-d8
Concen: 38.761 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

Tgt Ion: 98 Resp: 318200
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1



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





#62

4-Bromofluorobenzene

Concen: 46.692 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

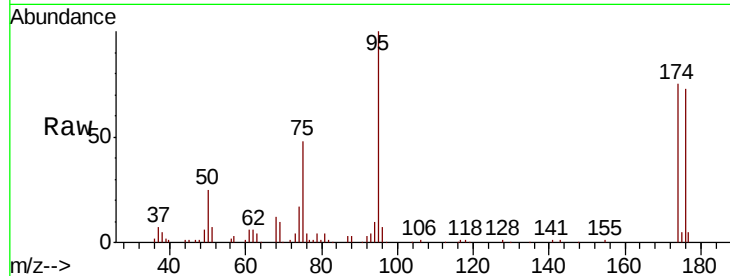
Tot Ion: 95 Resp: 178827

Ion Ratio Lower Upper

95 100

174 74.9 0.0 167.0

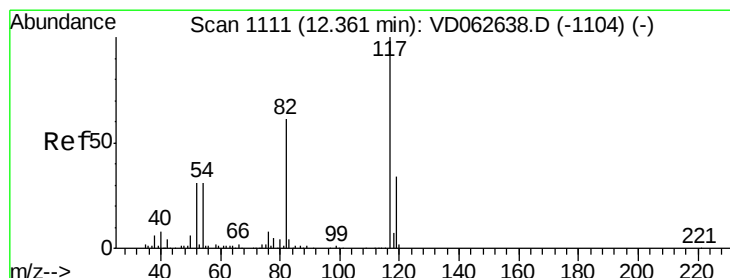
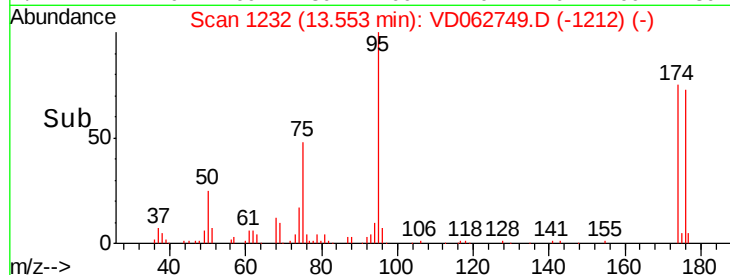
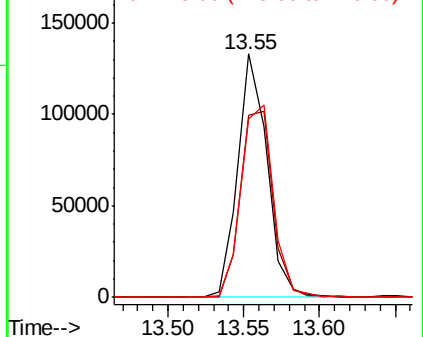
176 73.0 0.0 159.2



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: VD062749.D

Acq: 18 Jun 2019 15:04

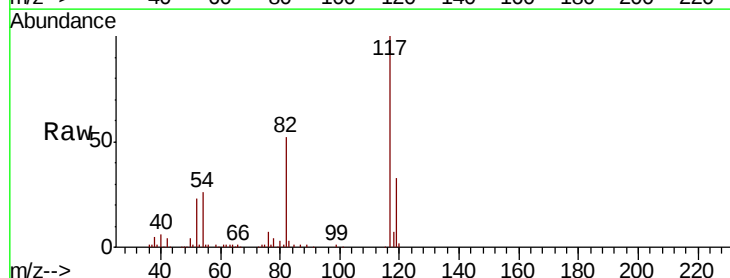
Tgt Ion: 117 Resp: 356643

Ion Ratio Lower Upper

117 100

82 51.5 48.7 73.1

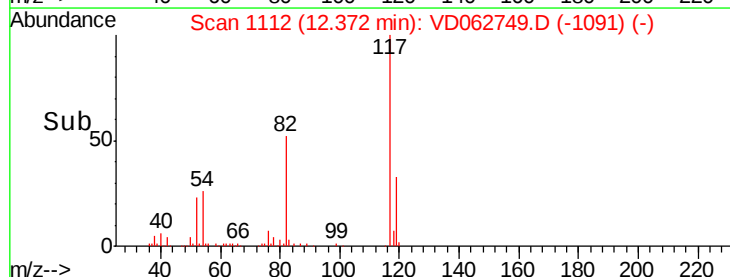
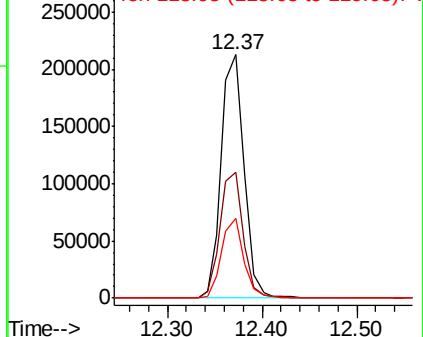
119 32.6 27.0 40.6

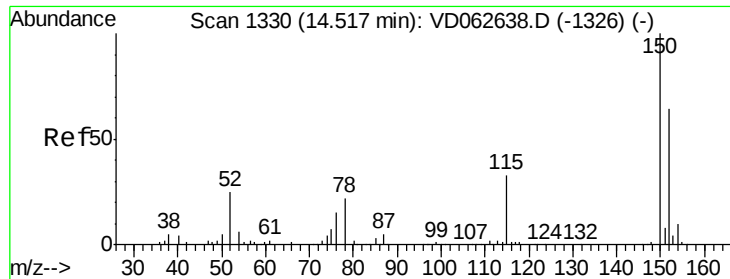


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

Instrument :

MSVOA_D

ClientSampleId :

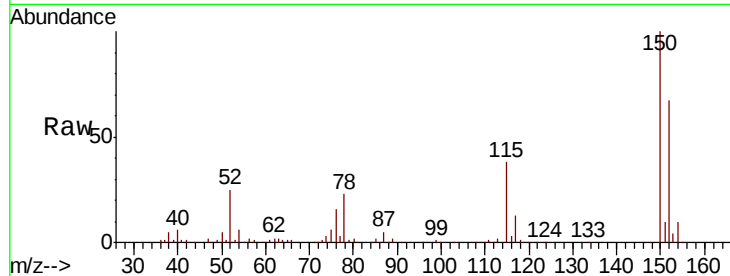
Tot Ion:152 Resp: 202264

Ion Ratio Lower Upper

152 100

115 56.3 30.1 90.5

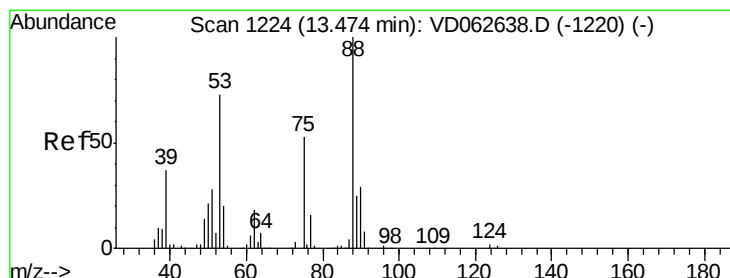
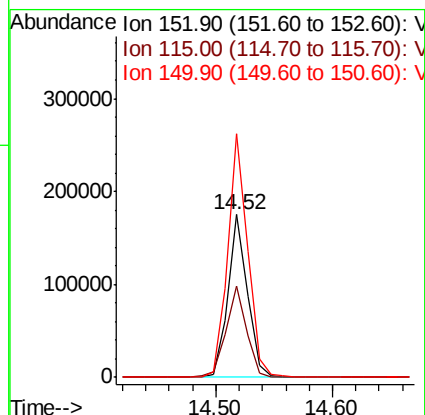
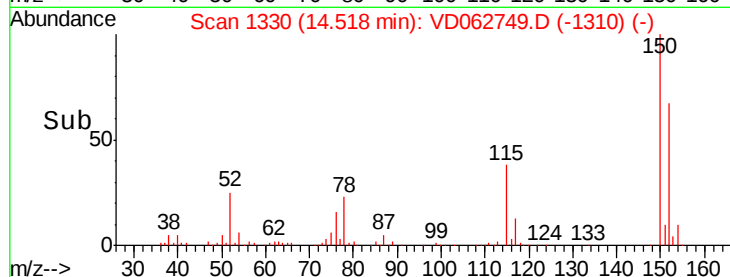
150 149.9 0.0 314.0



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: 98.599 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062749.D

Acq: 18 Jun 2019 15:04

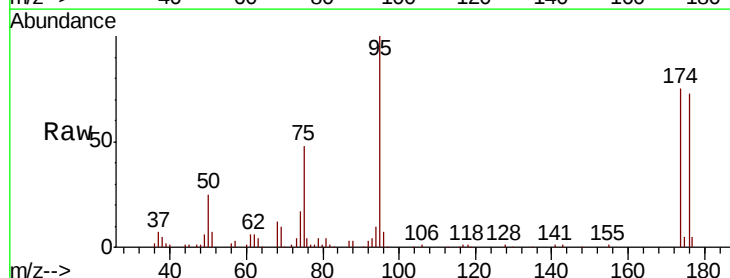
Tgt Ion: 75 Resp: 83530

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

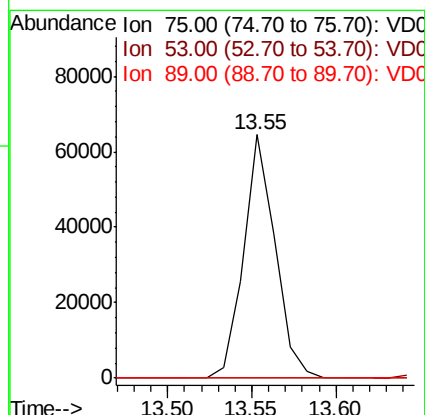
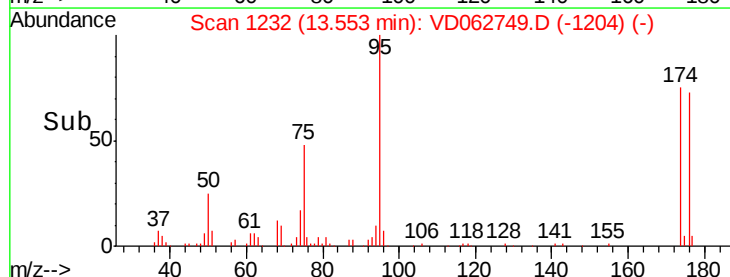
89 0.0 37.0 55.6#

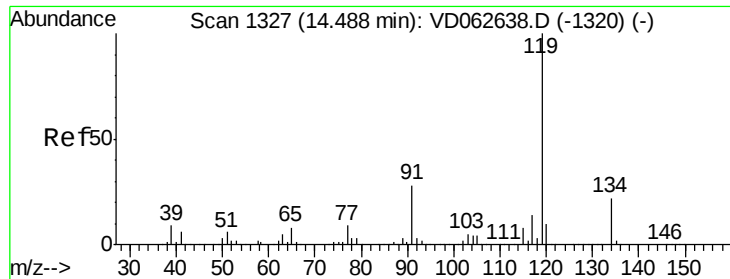


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

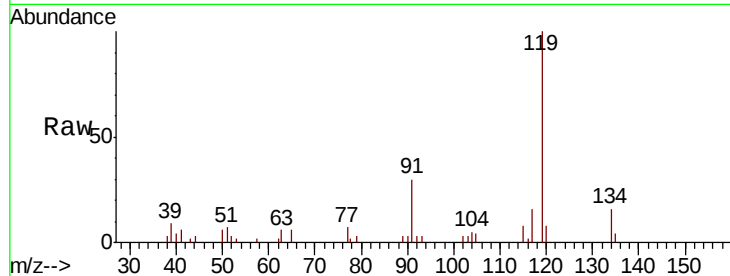




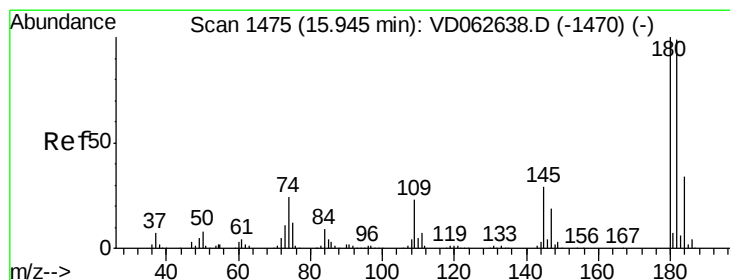
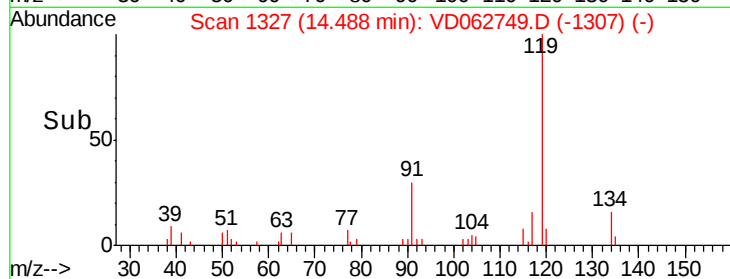
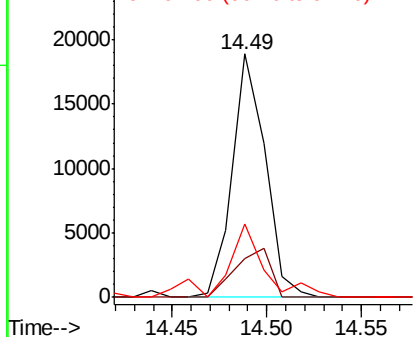
#86
 p-Isopropyltoluene
 Concen: 1.599 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD062749.D
 Acq: 18 Jun 2019 15:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:119 Resp: 22684
 Ion Ratio Lower Upper
 119 100
 134 16.1 10.9 32.6
 91 30.2 13.9 41.6

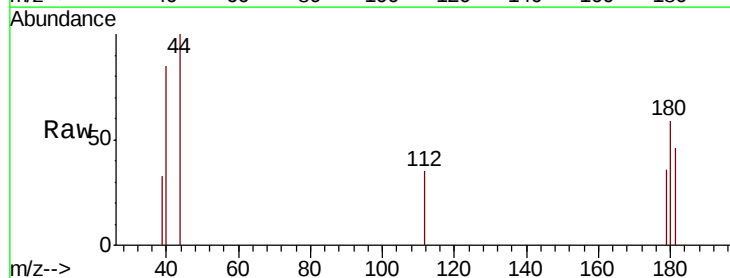


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

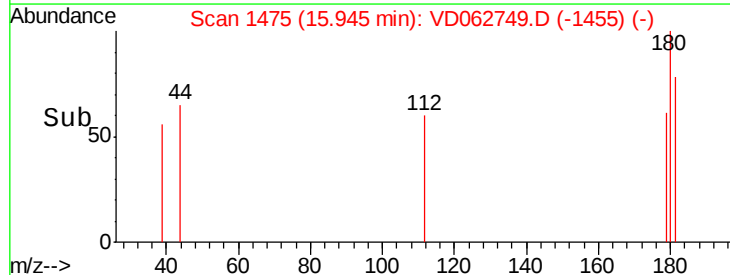
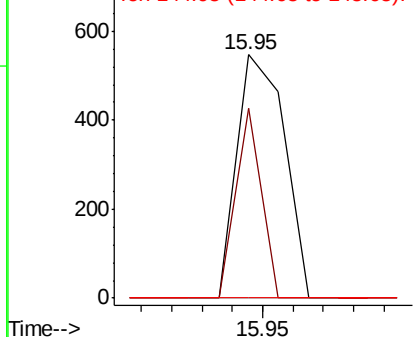


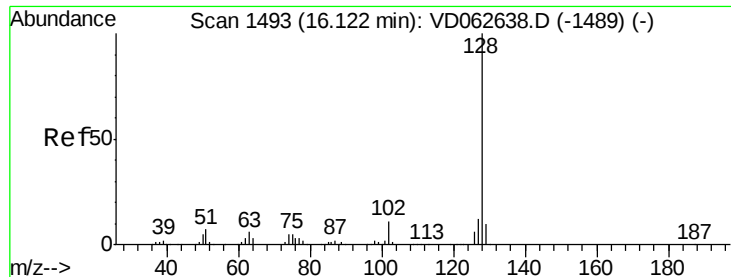
#93
 1,2,4-Trichlorobenzene
 Concen: 3.675 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062749.D
 Acq: 18 Jun 2019 15:04

Tgt Ion:180 Resp: 598
 Ion Ratio Lower Upper
 180 100
 182 78.1 49.4 148.2
 145 0.0 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: 3.762 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD062749.D
Acq: 18 Jun 2019 15:04

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 2467
Ion Ratio Lower Upper
128 100
127 0.0 9.7 14.5#
129 0.0 8.1 12.1#

