

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061537.D
 Acq On : 3 Apr 2019 4:34
 Operator : VA/AP
 Sample : K2180-06RE
 Misc : 4.81g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

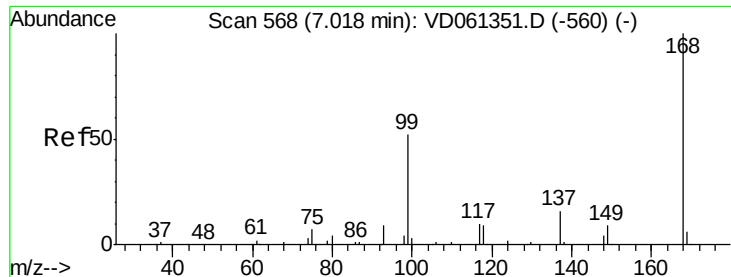
Quant Time: Apr 03 05:07:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	13019	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.23	114	29307	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	32148	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	16347	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	14062	126.44	ug/l	0.04
Spiked Amount 50.000			Recovery	=	252.88%	
35) Dibromofluoromethane	6.94	113	14292	63.82	ug/l	0.04
Spiked Amount 50.000			Recovery	=	127.64%	
50) Toluene-d8	10.42	98	27861	51.87	ug/l	0.03
Spiked Amount 50.000			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	13.56	95	14786	71.78	ug/l	0.01
Spiked Amount 50.000			Recovery	=	143.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.21	94	825	39.960	ug/l #	10
10) Methyl Iodide	3.37	142	2760	13.847	ug/l #	89
16) Acetone	3.24	43	7323	256.145	ug/l #	79
20) Methylene Chloride	3.84	84	2631	15.087	ug/l #	83
36) 1,1-Dichloropropene	7.07	75	399	1.560	ug/l #	38
38) Carbon Tetrachloride	7.05	117	942	3.205	ug/l #	10
52) Toluene	10.53	92	3054	7.798	ug/l	82
67) Ethyl Benzene	12.53	91	1127	1.124	ug/l #	42
76) 1,2,3-Trichloropropane	13.56	75	4992	21.140	ug/l #	42
79) 2-Chlorotoluene	13.95	91	856	1.132	ug/l	82
81) trans-1,4-Dichloro-2-buten	13.56	75	4992	69.335	ug/l #	18
82) 4-Chlorotoluene	13.95	91	856	1.041	ug/l	82
87) 1,3-Dichlorobenzene	14.54	146	1312	2.297	ug/l	90
88) 1,4-Dichlorobenzene	14.54	146	1312	2.355	ug/l	88
89) n-Butylbenzene	14.81	91	912	1.003	ug/l #	78
91) 1,2-Dichlorobenzene	14.81	146	783	1.671	ug/l	86
93) 1,2,4-Trichlorobenzene	15.95	180	928	4.348	ug/l #	82
94) Hexachlorobutadiene	16.04	225	211	1.265	ug/l #	18
95) Naphthalene	16.13	128	2959	9.096	ug/l #	82
96) 1,2,3-Trichlorobenzene	16.28	180	472	5.026	ug/l #	61

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

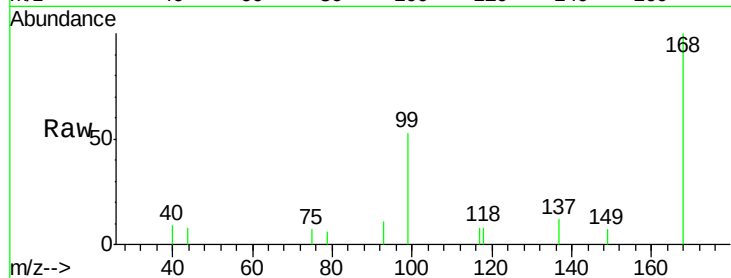
ClientSampled :

Tot Ion:168 Resp: 13019

Ion Ratio Lower Upper

168 100

99 52.9 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

5000

4000

3000

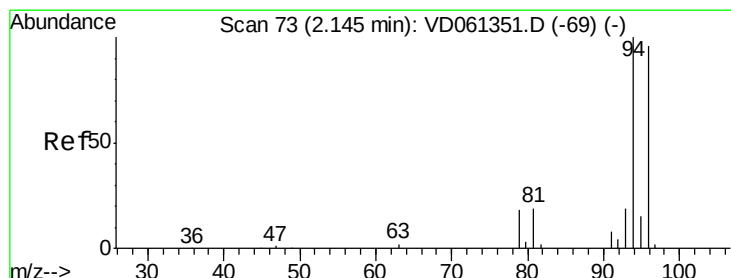
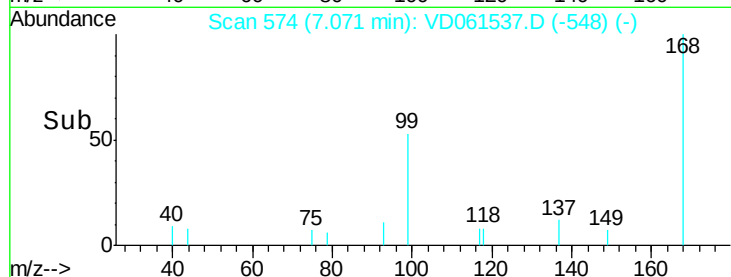
2000

1000

0

Time-->

7.00 7.05 7.10 7.15



#5

Bromomethane

Concen: 39.960 ug/l

RT: 2.21 min Scan# 80

Delta R.T. 0.06 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

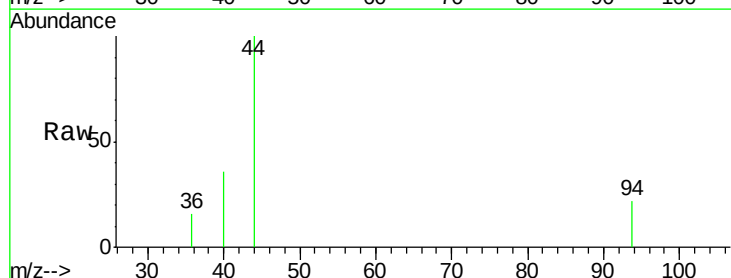
Tgt Ion: 94 Resp: 825

Ion Ratio Lower Upper

94 100

96 0.0 78.3 117.5#

93 0.0 15.6 23.4#



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

2.21

600

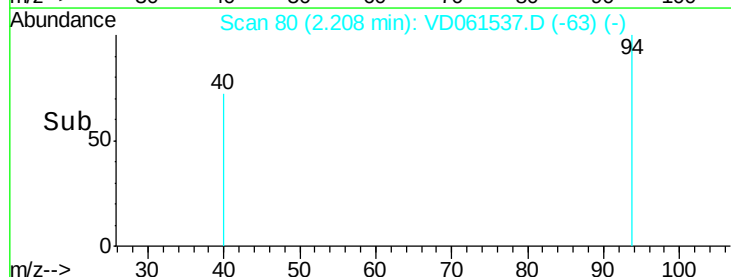
400

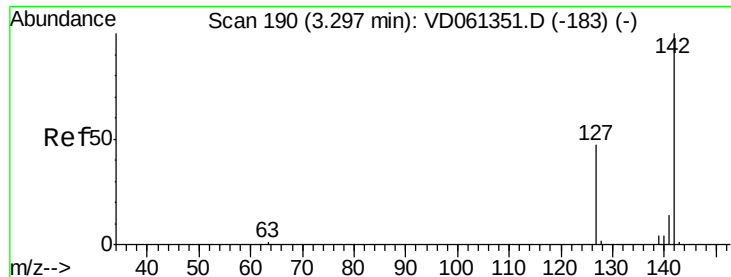
200

0

Time-->

2.16 2.18 2.20 2.22

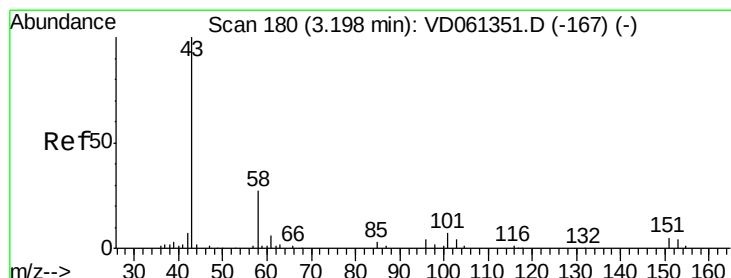
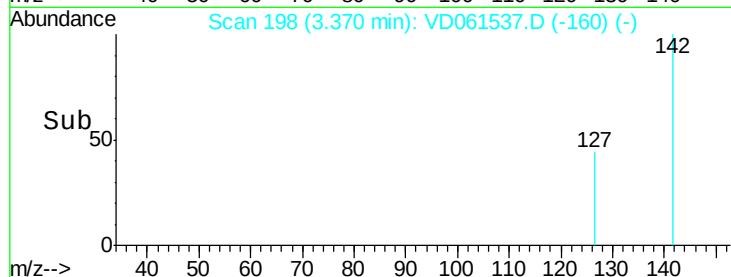
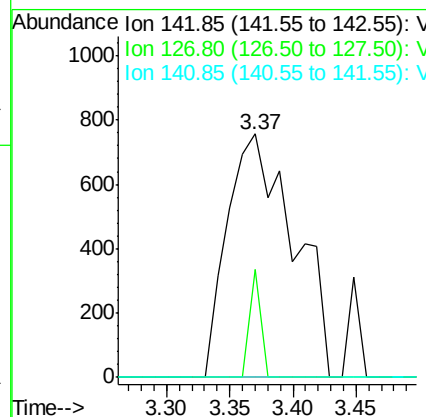
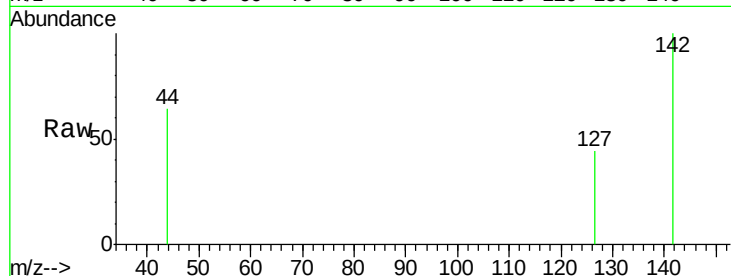




#10
Methvl Iodide
Concen: 13.847 ug/l
RT: 3.37 min Scan# 198
Delta R.T. 0.07 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

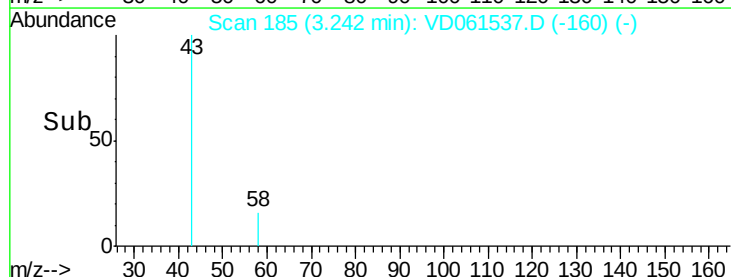
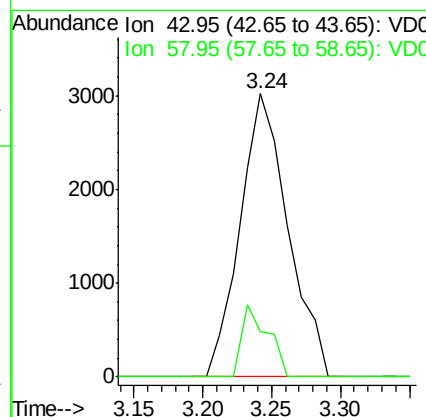
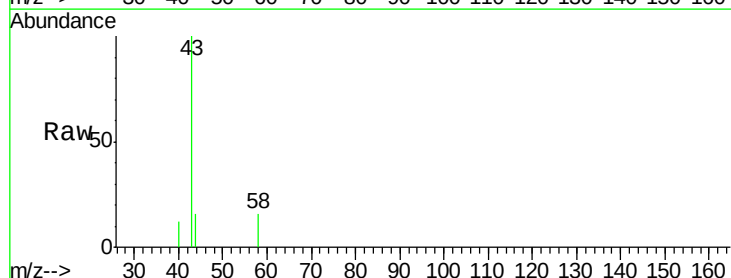
Instrument :
MSVOA_D
ClientSampleId :

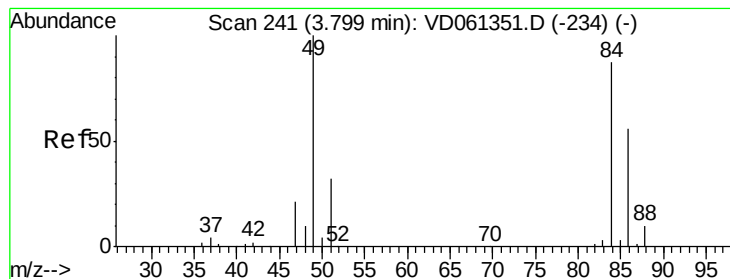
Tot Ion:142 Resp: 2760
Ion Ratio Lower Upper
142 100
127 44.3 37.7 56.5
141 0.0 11.5 17.3#



#16
Acetone
Concen: 256.145 ug/l
RT: 3.24 min Scan# 185
Delta R.T. 0.04 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Tgt Ion: 43 Resp: 7323
Ion Ratio Lower Upper
43 100
58 16.1 21.5 32.3#





#20

Methylene Chloride

Concen: 15.087 ug/l

RT: 3.84 min Scan# 246

Delta R.T. 0.04 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 2631

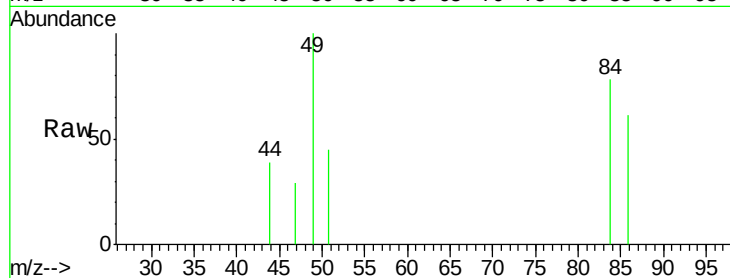
Ion Ratio Lower Upper

84 100

49 127.7 91.8 137.8

51 56.9 29.8 44.8#

86 77.6 51.8 77.6

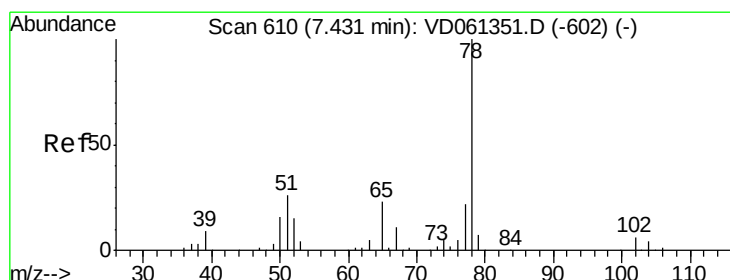
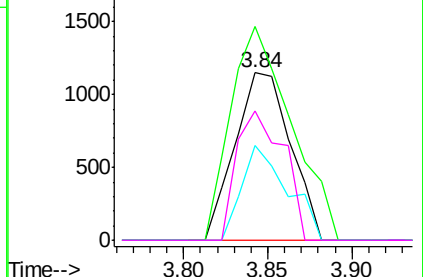
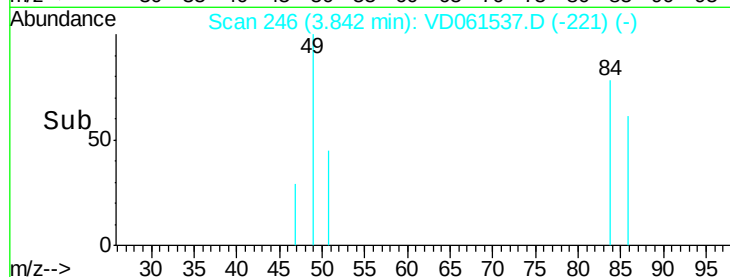


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 615

Delta R.T. 0.04 min

Lab File: VD061537.D

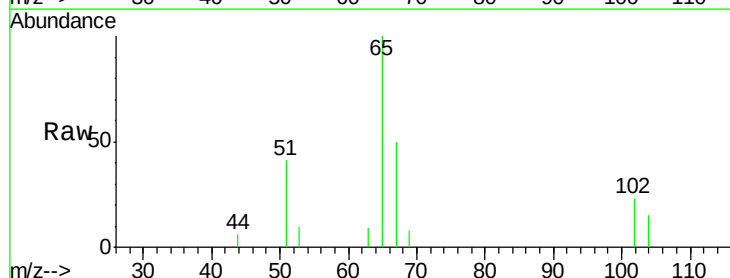
Acq: 3 Apr 2019 4:34

Tgt Ion: 65 Resp: 14062

Ion Ratio Lower Upper

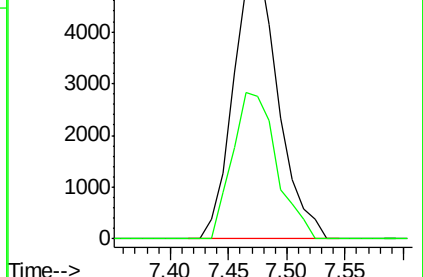
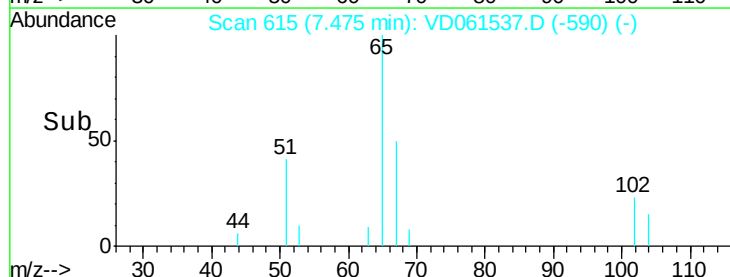
65 100

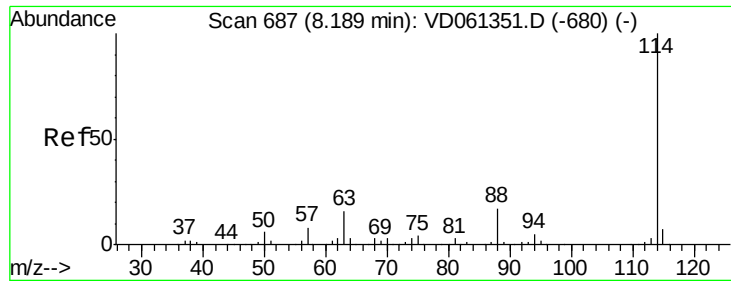
67 50.5 0.0 99.8



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# 692

Delta R.T. 0.04 min

Lab File: VD061537.D

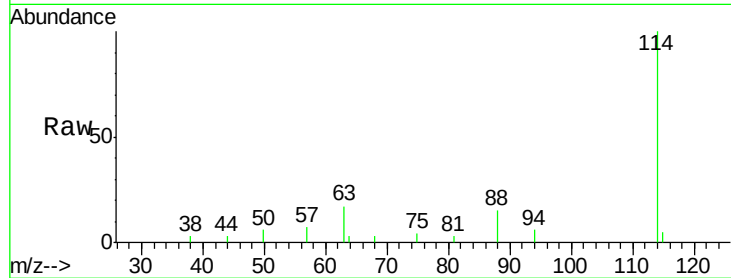
Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

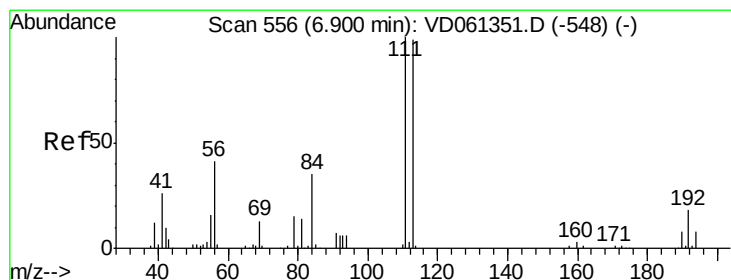
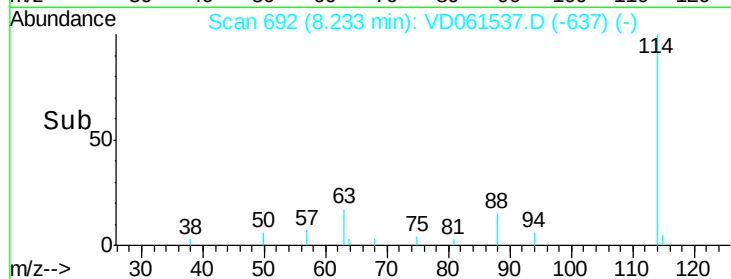
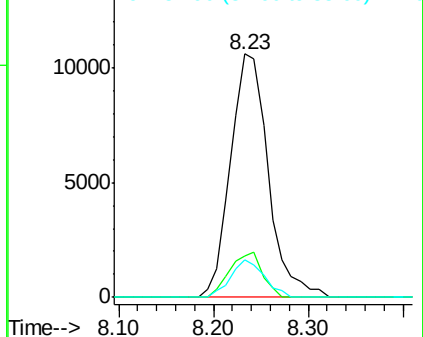
Tot Ion:114	Resp:	29307
Ion Ratio	Lower	Upper
114	100	
63	17.1	0.0 31.6
88	15.2	0.0 33.4



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: 50.000 ug/l

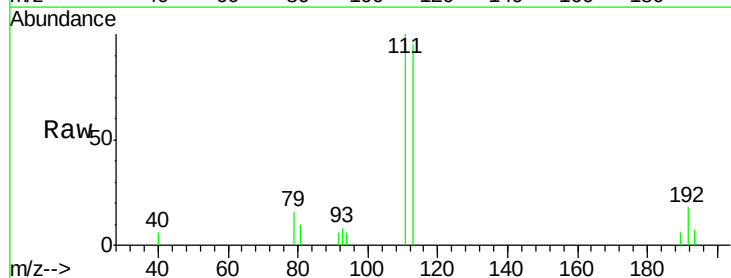
RT: 6.94 min Scan# 561

Delta R.T. 0.04 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

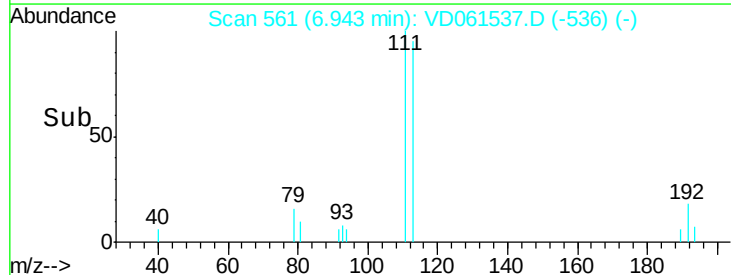
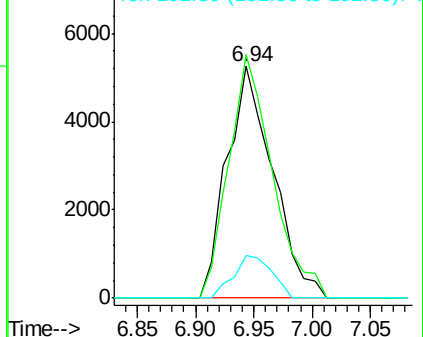
Tgt Ion:113	Resp:	14292
Ion Ratio	Lower	Upper
113	100	
111	105.1	81.0 121.6
192	18.7	14.4 21.6

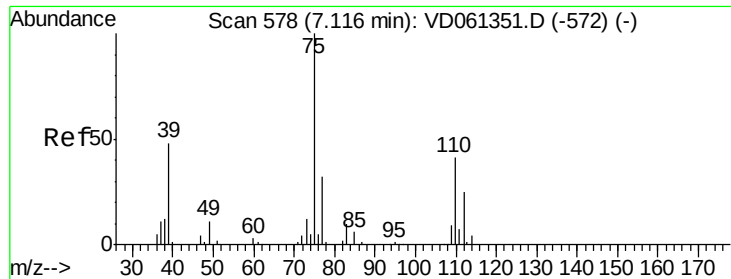


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

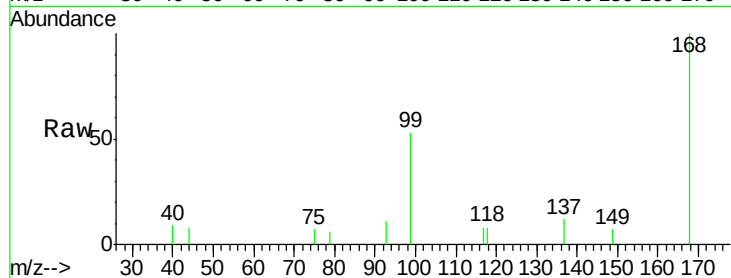




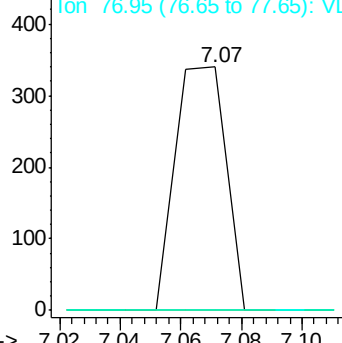
#36
 1,1-Dichloropropene
 Concen: 1.560 ug/l
 RT: 7.07 min Scan# 574
 Delta R.T. -0.05 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

Instrument :
 MSVOA_D
 ClientSampleId :

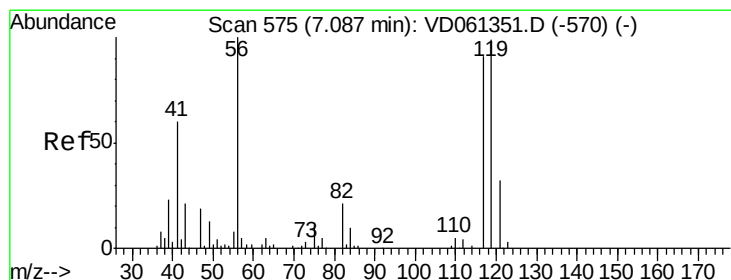
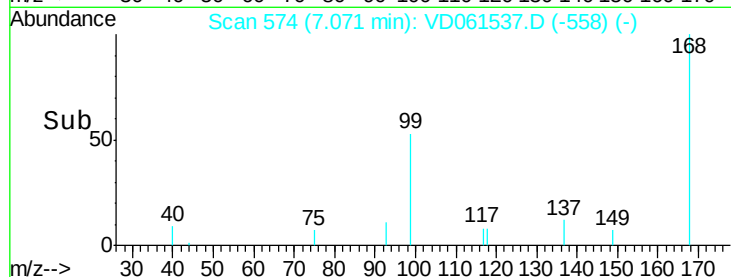
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.4	61.3#
77	0.0	24.9	37.3#



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

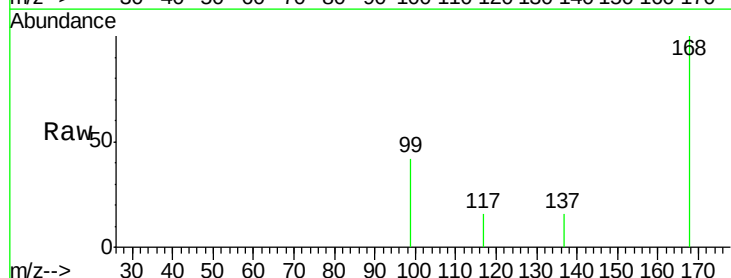


Time--> 7.02 7.04 7.06 7.08 7.10

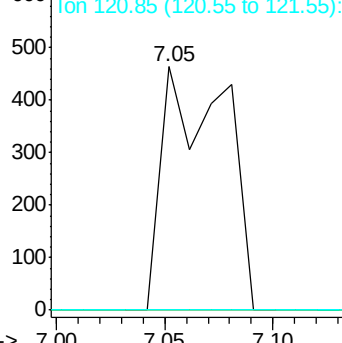


#38
 Carbon Tetrachloride
 Concen: 3.205 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.04 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

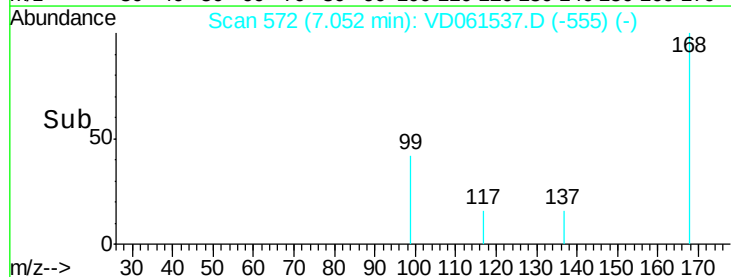
Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.1	120.1#
121	0.0	25.6	38.4#

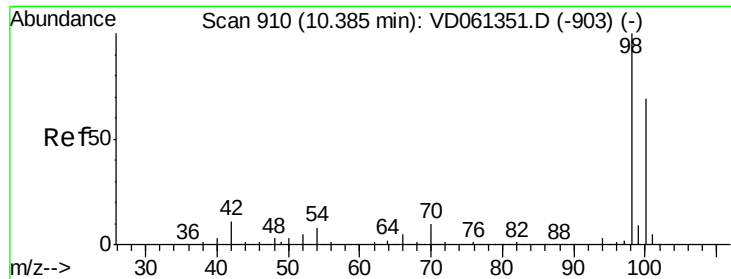


Abundance Ion 116.85 (116.55 to 117.55): V
 Ion 118.85 (118.55 to 119.55): V
 Ion 120.85 (120.55 to 121.55): V



Time--> 7.00 7.05 7.10

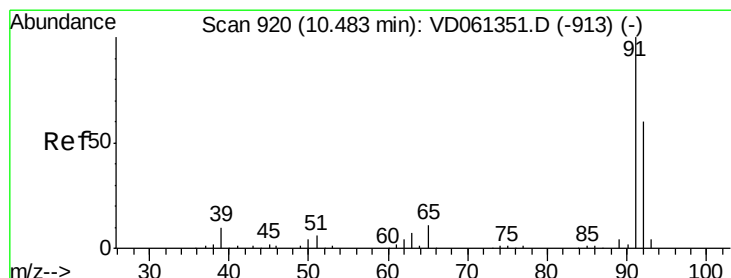
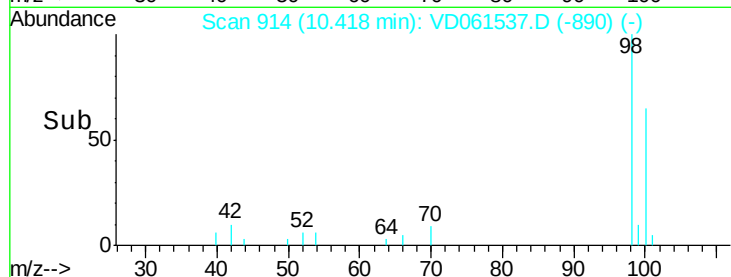
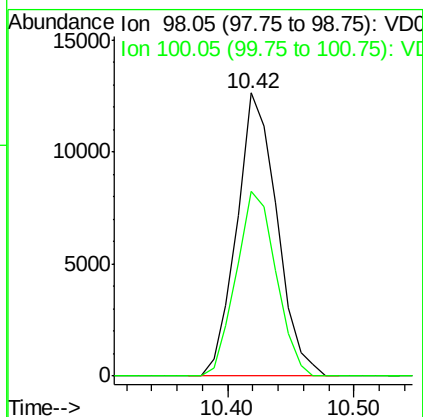
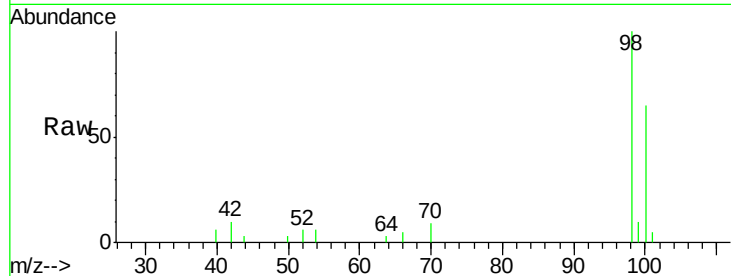




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.03 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

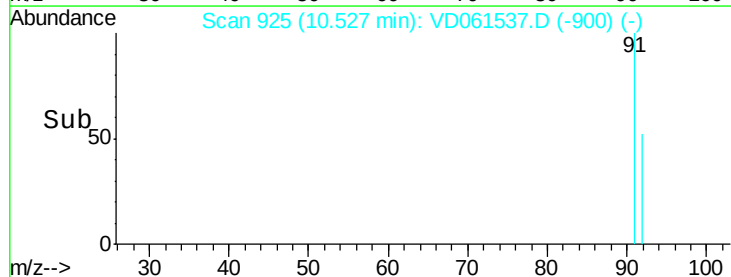
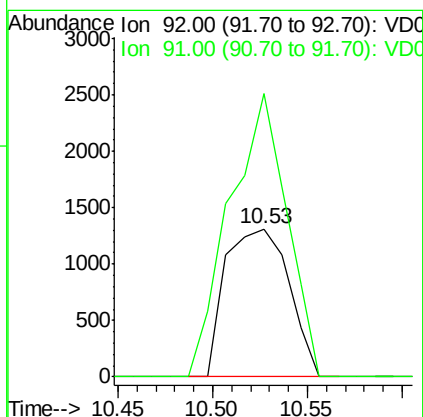
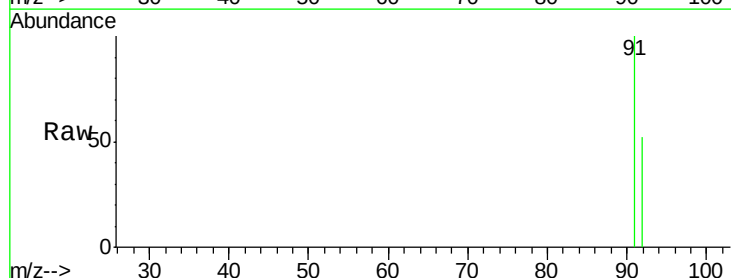
Instrument :
MSVOA_D
ClientSampleId :

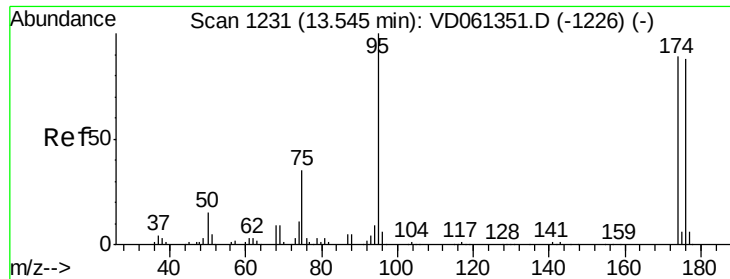
Tot Ion: 98 Resp: 27861
Ion Ratio Lower Upper
98 100
100 65.4 56.2 84.2



#52
Toluene
Concen: 7.798 ug/l
RT: 10.53 min Scan# 925
Delta R.T. 0.04 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Tgt Ion: 92 Resp: 3054
Ion Ratio Lower Upper
92 100
91 190.8 133.3 199.9

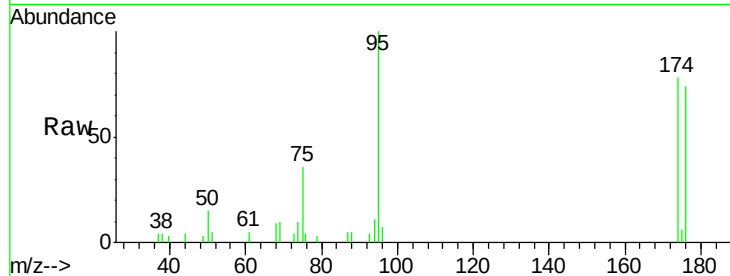




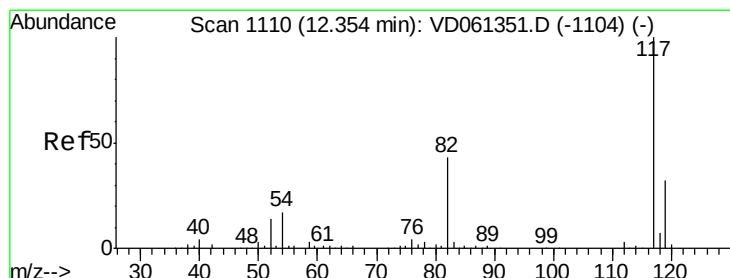
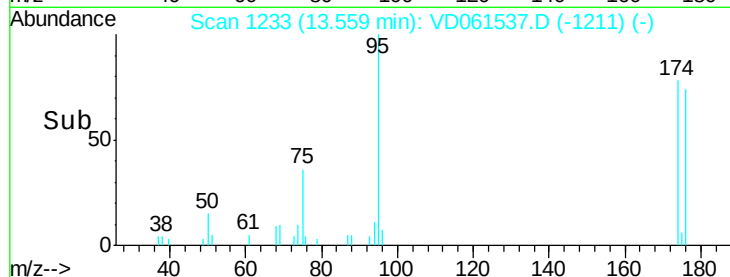
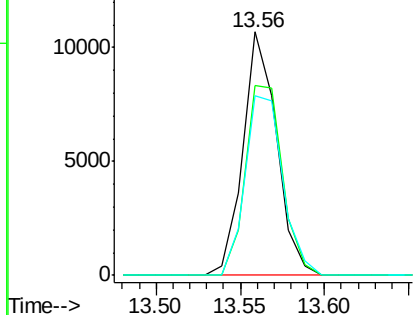
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 14786
Ion Ratio Lower Upper
95 100
174 78.2 0.0 178.0
176 73.6 0.0 175.0

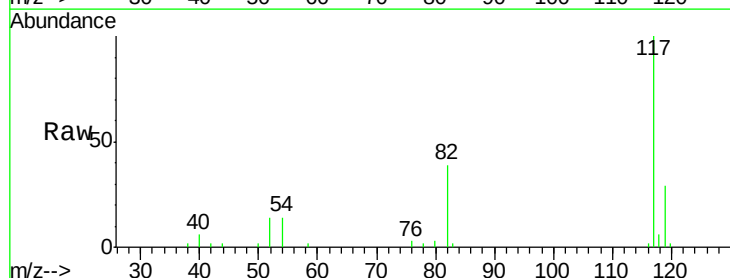


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

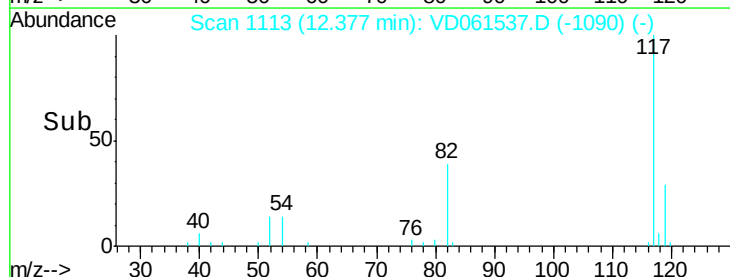
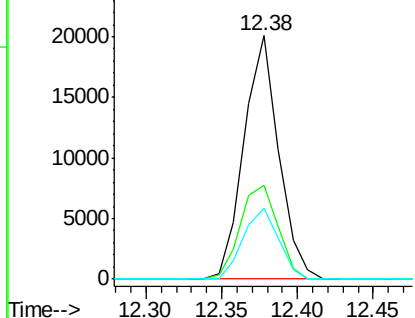


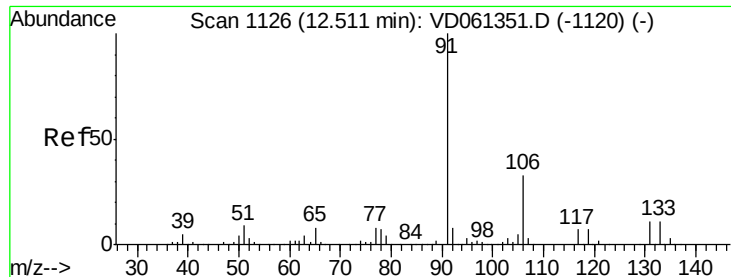
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Tgt Ion: 117 Resp: 32148
Ion Ratio Lower Upper
117 100
82 38.6 34.4 51.6
119 29.2 25.8 38.6



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





#67

Ethyl Benzene

Concen: 1.124 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

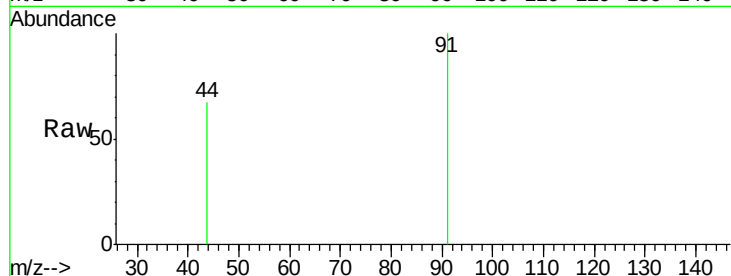
ClientSampled :

Tot Ion: 91 Resp: 1127

Ion Ratio Lower Upper

91 100

106 0.0 26.1 39.1#



Abundance Ion 91.00 (90.70 to 91.70): VD061537.D (-1120) (-)

Ion 106.05 (105.75 to 106.75): VD061537.D (-1120) (-)

12.53

800

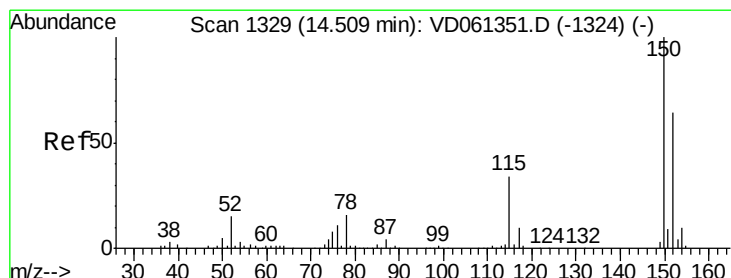
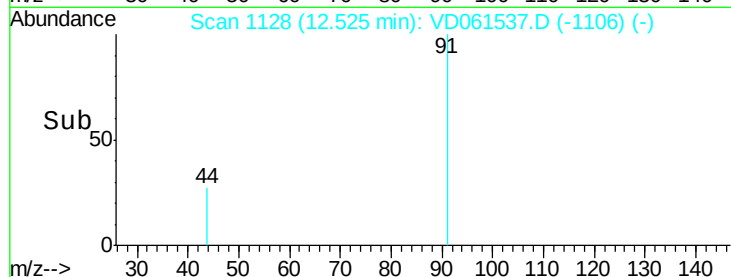
600

400

200

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

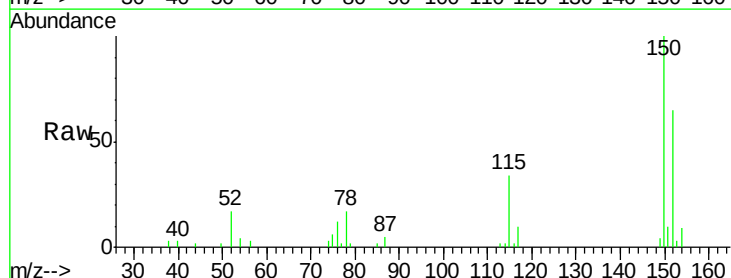
Tgt Ion: 152 Resp: 16347

Ion Ratio Lower Upper

152 100

115 53.0 26.9 80.6

150 153.7 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): VD061537.D (-1309) (-)

Ion 115.00 (114.70 to 115.70): VD061537.D (-1309) (-)

Ion 149.90 (149.60 to 150.60): VD061537.D (-1309) (-)

14.52

25000

20000

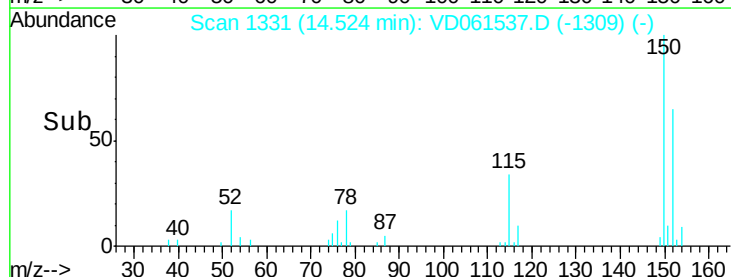
15000

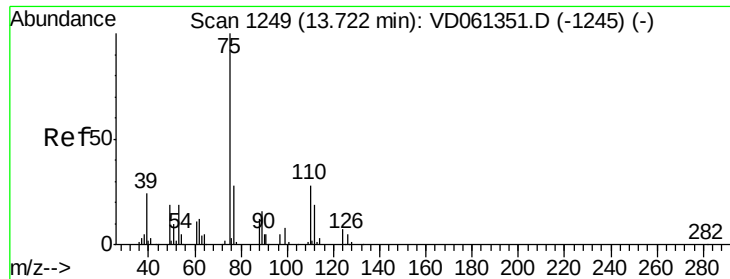
10000

5000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 21.140 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

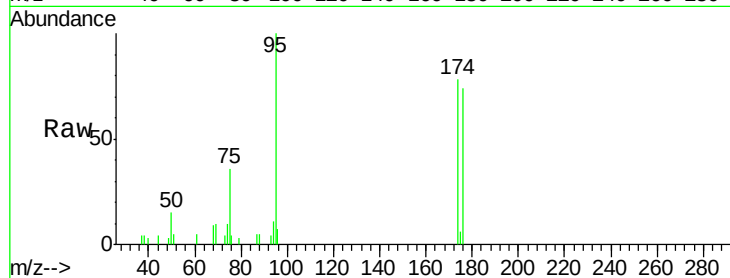
ClientSampleId :

Tot Ion: 75 Resp: 4992

Ion Ratio Lower Upper

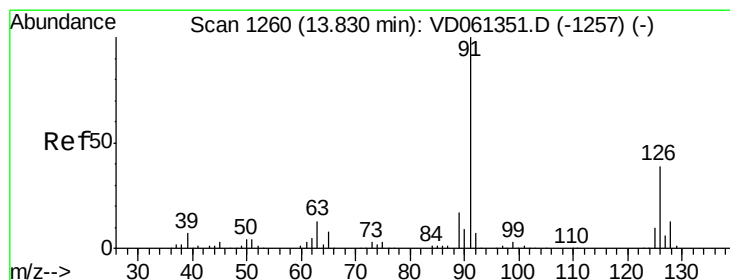
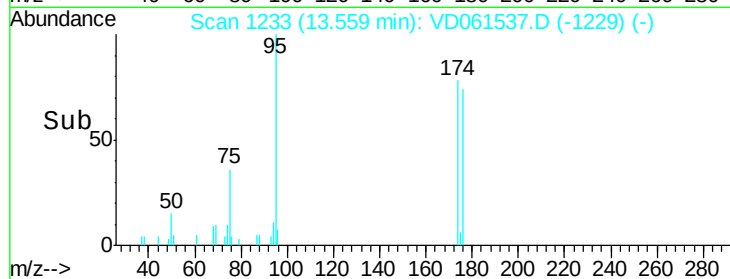
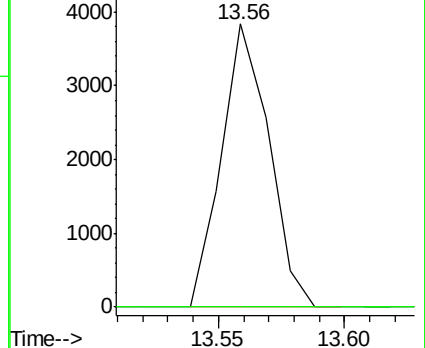
75 100

77 0.0 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#79

2-Chlorotoluene

Concen: 1.132 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.12 min

Lab File: VD061537.D

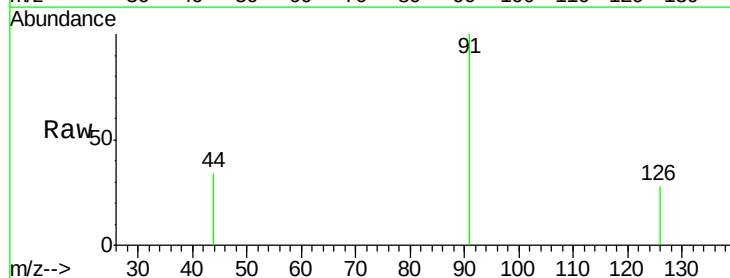
Acq: 3 Apr 2019 4:34

Tgt Ion: 91 Resp: 856

Ion Ratio Lower Upper

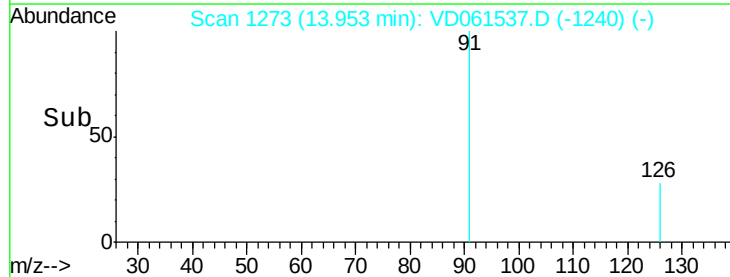
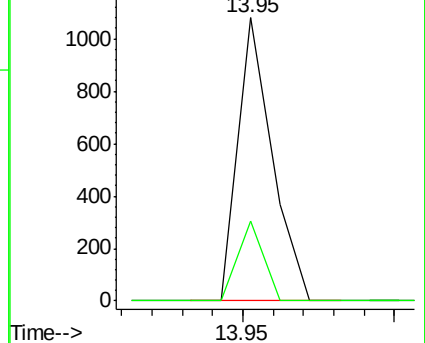
91 100

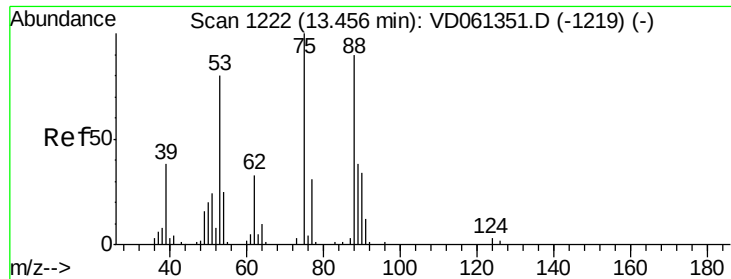
126 28.1 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.335 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD061537.D

Acq: 3 Apr 2019 4:34

Instrument :

MSVOA_D

ClientSampleId :

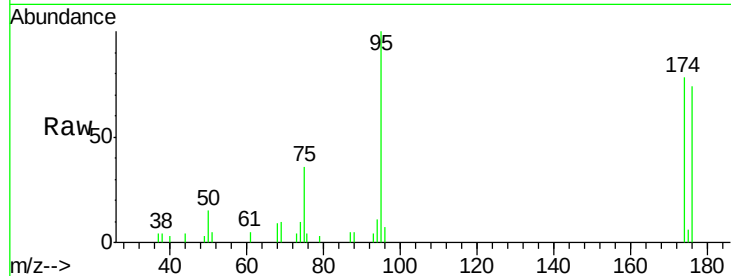
Tot Ion: 75 Resp: 4992

Ion Ratio Lower Upper

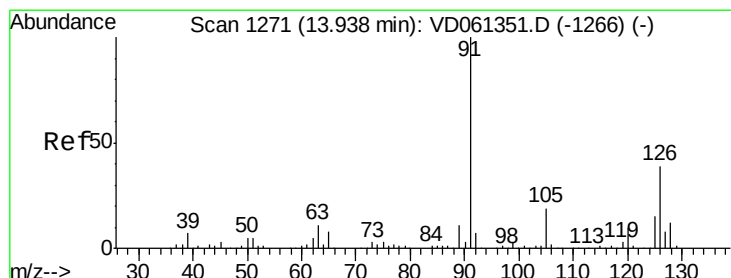
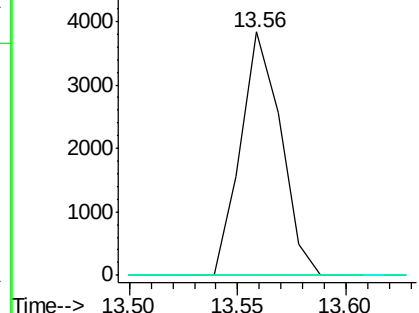
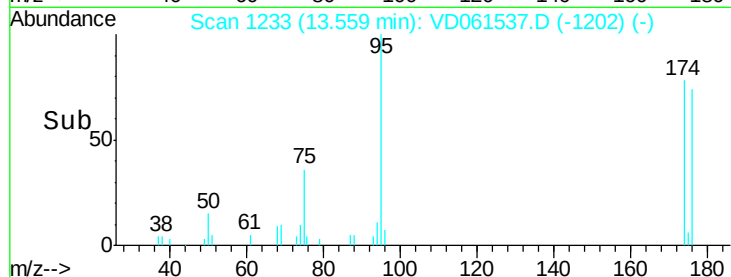
75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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



#82

4-Chlorotoluene

Concen: 1.041 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061537.D

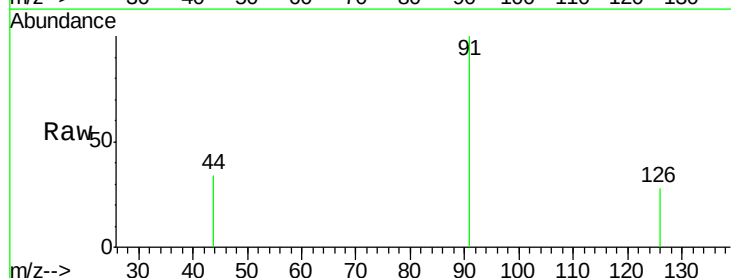
Acq: 3 Apr 2019 4:34

Tgt Ion: 91 Resp: 856

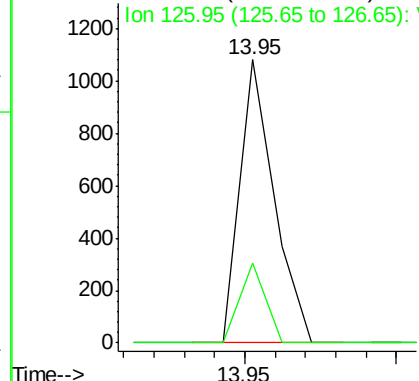
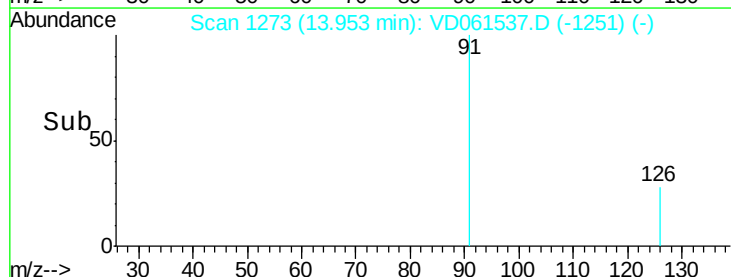
Ion Ratio Lower Upper

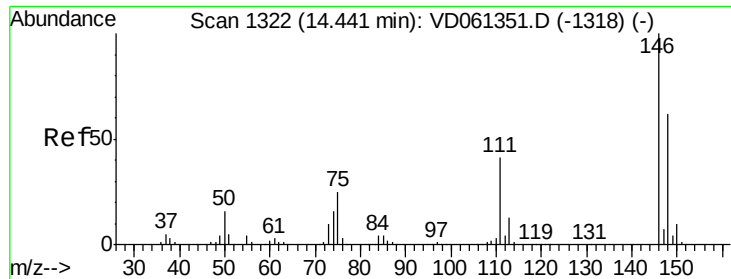
91 100

126 28.1 19.6 58.8



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

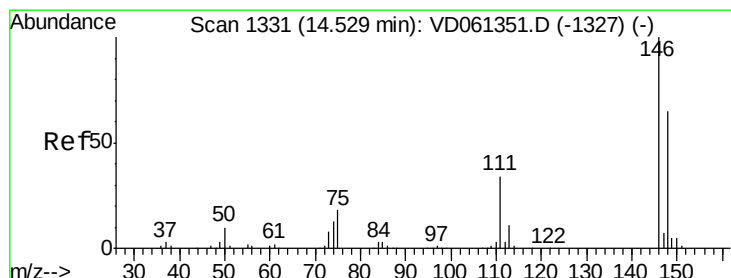
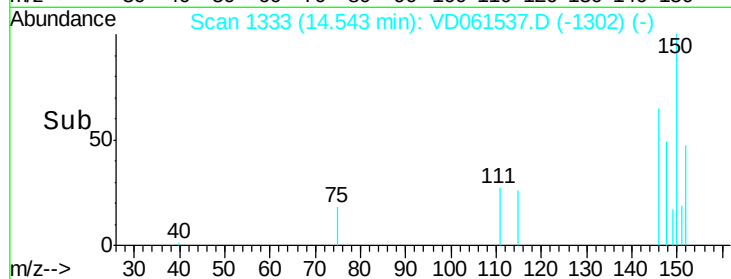
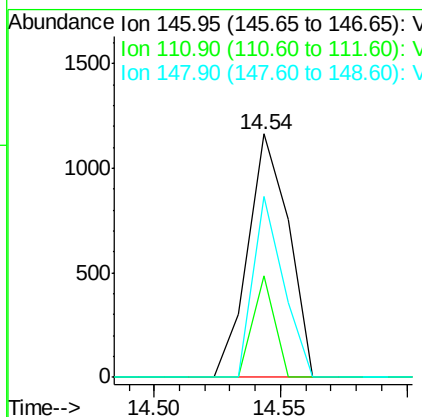
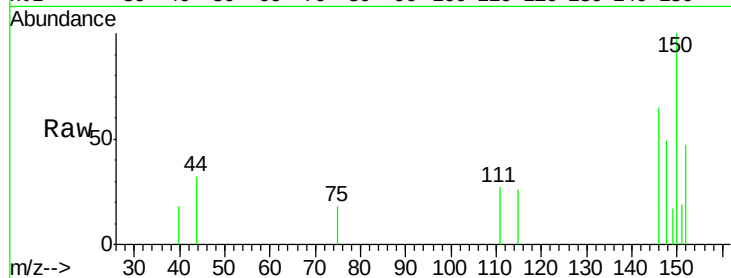




#87
 1,3-Dichlorobenzene
 Concen: 2.297 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.10 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

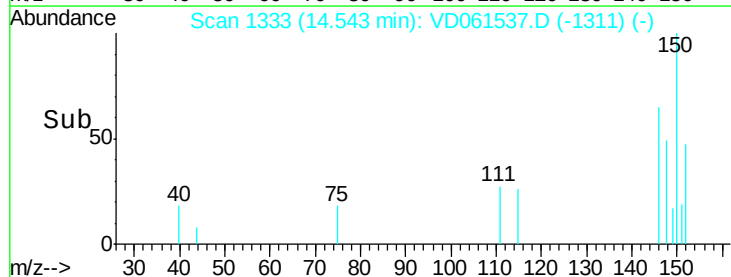
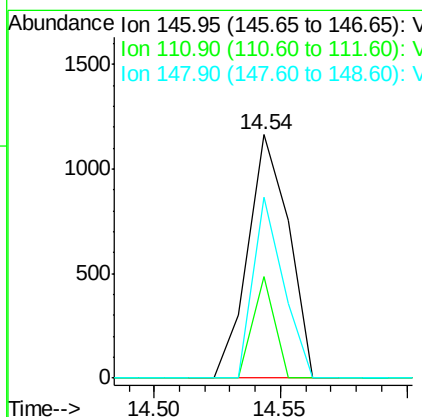
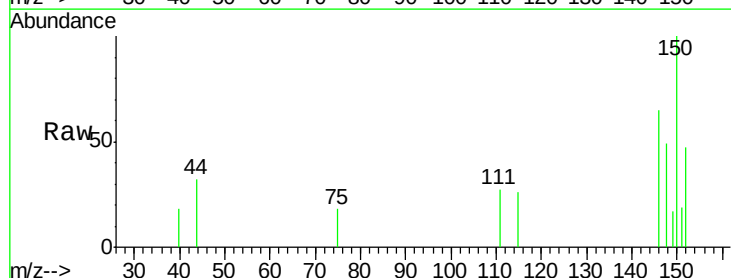
Instrument :
 MSVOA_D
 ClientSampleId :

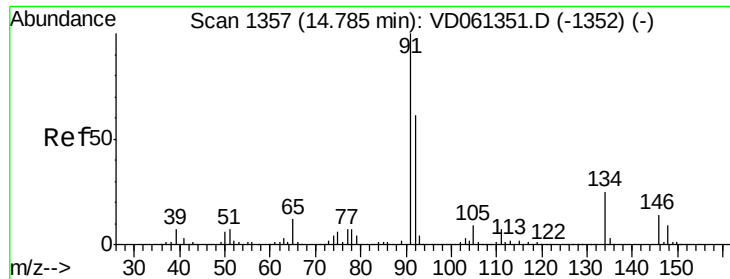
Tot Ion:146 Resp: 1312
 Ion Ratio Lower Upper
 146 100
 111 41.8 20.6 61.9
 148 74.2 31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 2.355 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

Tgt Ion:146 Resp: 1312
 Ion Ratio Lower Upper
 146 100
 111 41.8 16.8 50.4
 148 74.2 32.6 98.0

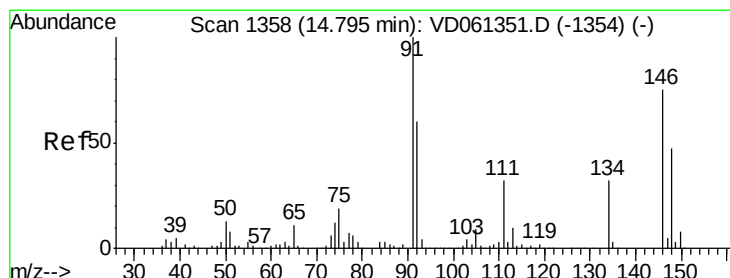
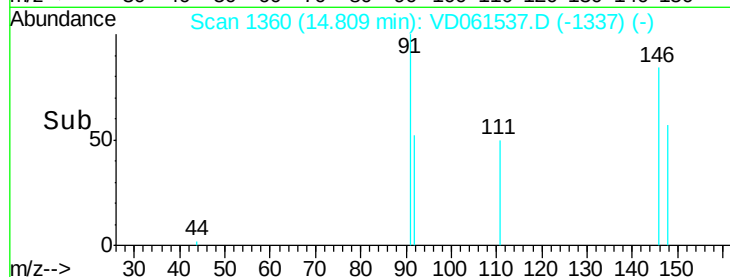
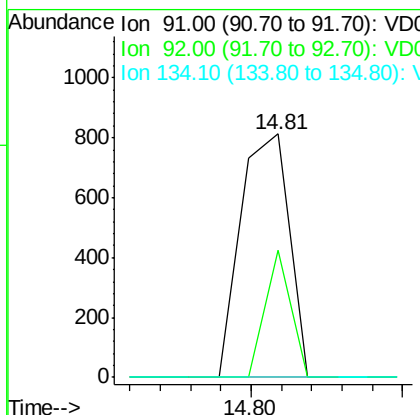
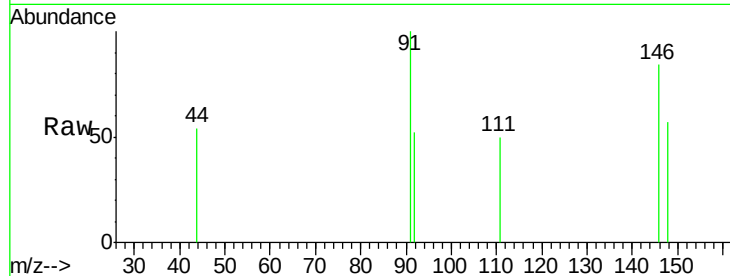




#89
n-Butylbenzene
Concen: 1.003 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

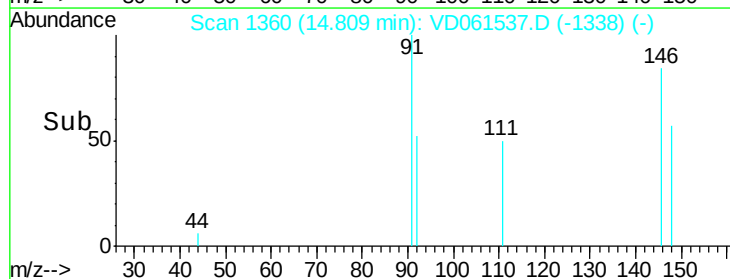
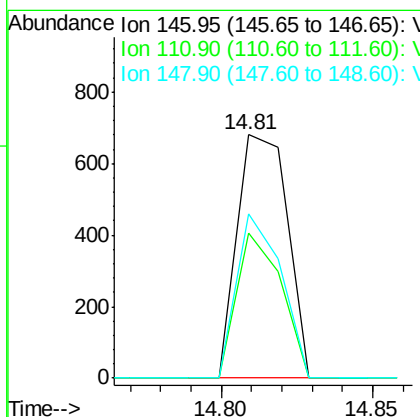
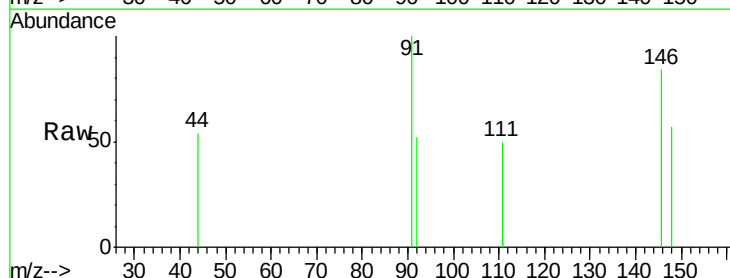
Instrument :
MSVOA_D
ClientSampleId :

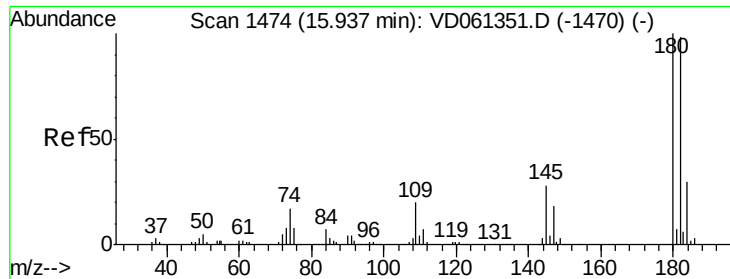
Tot Ion: 91 Resp: 912
Ion Ratio Lower Upper
91 100
92 52.2 30.3 91.0
134 0.0 12.4 37.0#



#91
1,2-Dichlorobenzene
Concen: 1.671 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Tgt Ion: 146 Resp: 783
Ion Ratio Lower Upper
146 100
111 59.6 21.2 63.6
148 67.5 31.6 95.0

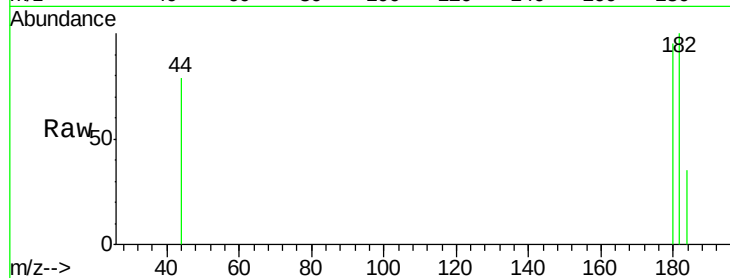




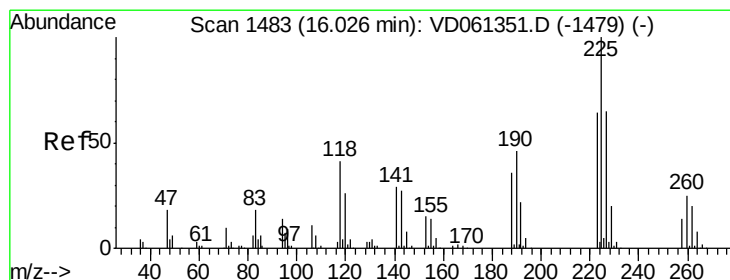
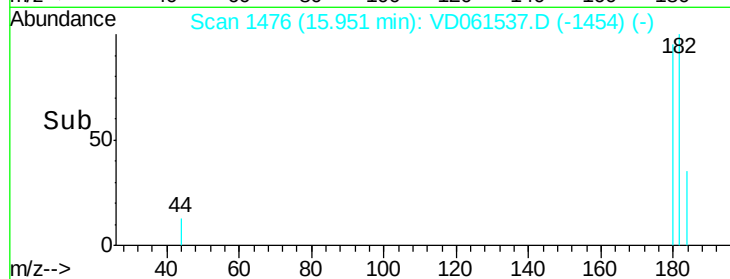
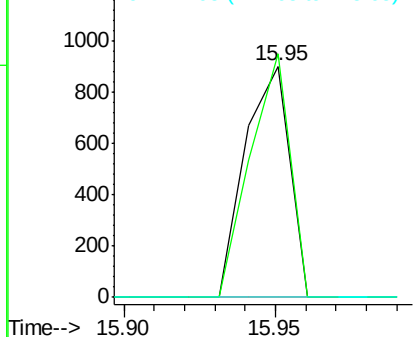
#93
 1,2,4-Trichlorobenzene
 Concen: 4.348 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 928
 Ion Ratio Lower Upper
 180 100
 182 105.3 48.9 146.8
 145 0.0 14.1 42.3#

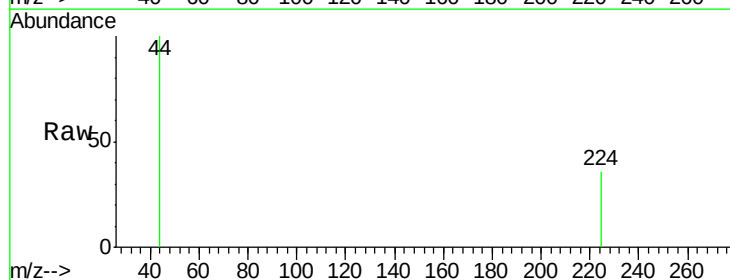


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

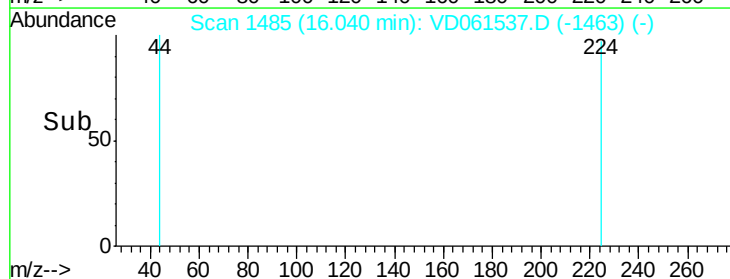
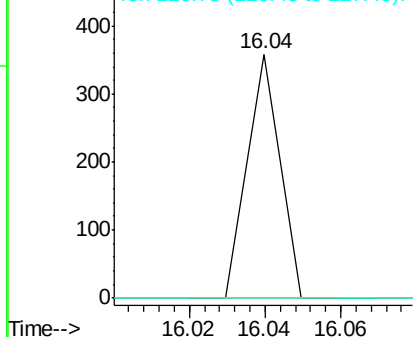


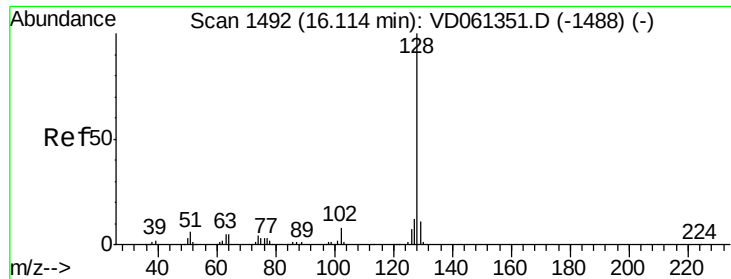
#94
 Hexachlorobutadiene
 Concen: 1.265 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061537.D
 Acq: 3 Apr 2019 4:34

Tgt Ion:225 Resp: 211
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.0 96.0#
 227 0.0 32.4 97.2#



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

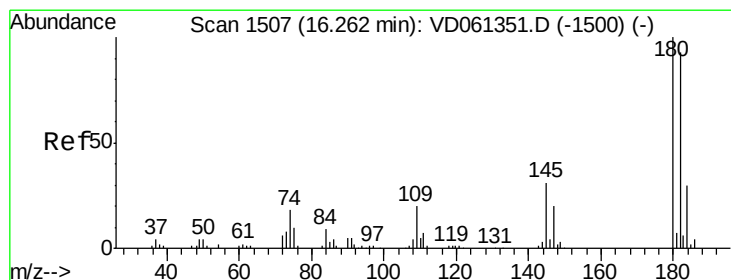
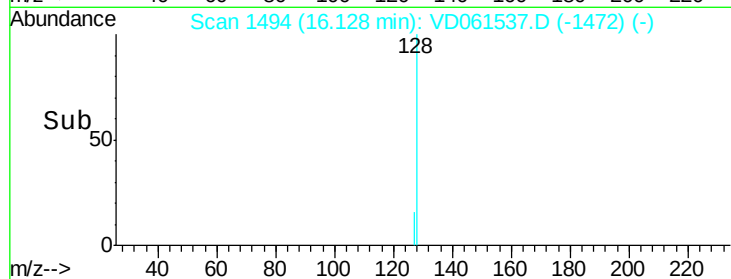
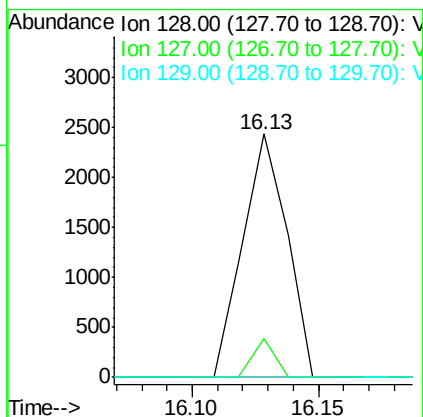
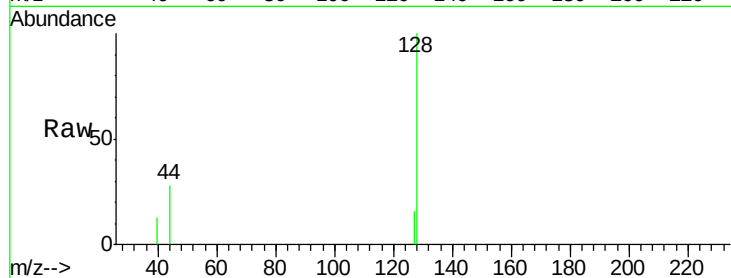




#95
Naphthalene
Concen: 9.096 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 2959
Ion Ratio Lower Upper
128 100
127 15.8 9.9 14.9#
129 0.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 5.026 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD061537.D
Acq: 3 Apr 2019 4:34

Tgt Ion:180 Resp: 472
Ion Ratio Lower Upper
180 100
182 125.3 46.4 139.1
145 0.0 15.3 45.9#

