

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062019\
 Data File : VD062801.D
 Acq On : 20 Jun 2019 18:32
 Operator : VA/AP
 Sample : K3447-01
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 21 06:36:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	463522	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.25	114	612642	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	383868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.54	152	116968	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	330394	65.57	ug/l	0.02
Spiked Amount	50.000		Recovery	=	131.14%	
35) Dibromofluoromethane	6.95	113	330025	63.89	ug/l	0.02
Spiked Amount	50.000		Recovery	=	127.78%	
50) Toluene-d8	10.44	98	509865	45.35	ug/l	0.03
Spiked Amount	50.000		Recovery	=	90.70%	
62) 4-Bromofluorobenzene	13.57	95	151483	29.63	ug/l	0.02
Spiked Amount	50.000		Recovery	=	59.26%	

Target Compounds

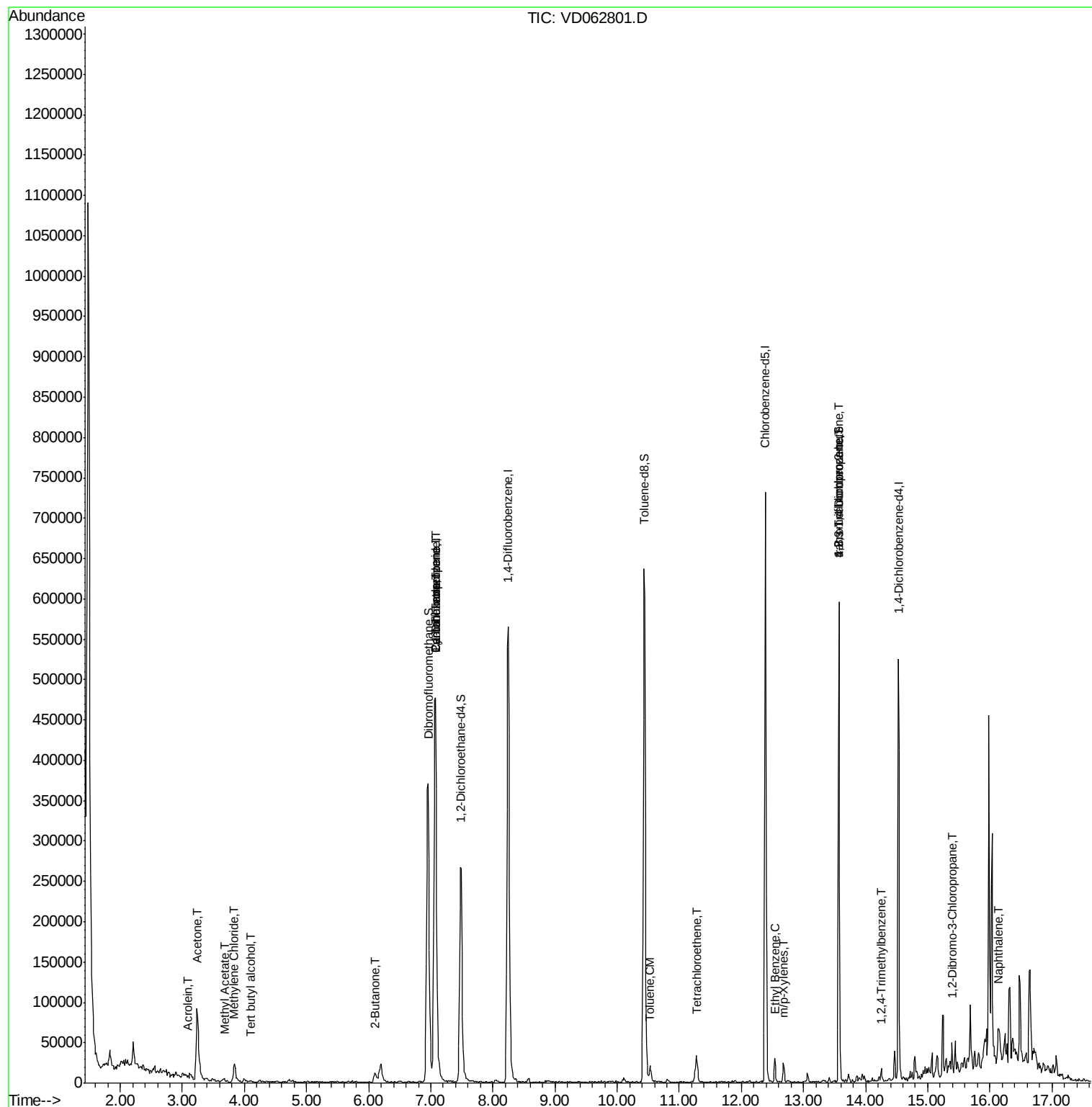
						Qvalue
11) Tert butyl alcohol	4.10	59	1219	5.312	ug/l #	77
13) Acrolein	3.10	56	308	1.315	ug/l #	78
16) Acetone	3.24	43	181297	175.349	ug/l	96
18) Methyl Acetate	3.67	43	7739	5.088	ug/l	100
20) Methylene Chloride	3.84	84	13455	3.502	ug/l #	77
25) 2-Butanone	6.09	43	23484	24.921	ug/l	96
31) Cyclohexane	7.08	56	13754	2.907	ug/l #	1
36) 1,1-Dichloropropene	7.08	75	34051	5.871	ug/l #	56
37) Ethyl Acetate	6.19	43	2462	Below Cal	#	69
38) Carbon Tetrachloride	7.08	117	48829	5.598	ug/l #	16
52) Toluene	10.53	92	10135	1.295	ug/l	94
64) Tetrachloroethene	11.29	164	6628	2.098	ug/l #	86
67) Ethyl Benzene	12.54	91	18249	1.427	ug/l	94
68) m/p-Xylenes	12.68	106	5767	1.295	ug/l	89
76) 1,2,3-Trichloropropane	13.57	75	70128	51.935	ug/l #	47
81) trans-1,4-Dichloro-2-buten	13.57	75	74489	210.483	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.25	105	7474	1.158	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	15.38	75	390	1.635	ug/l #	14
95) Naphthalene	16.13	128	20912	6.174	ug/l #	89

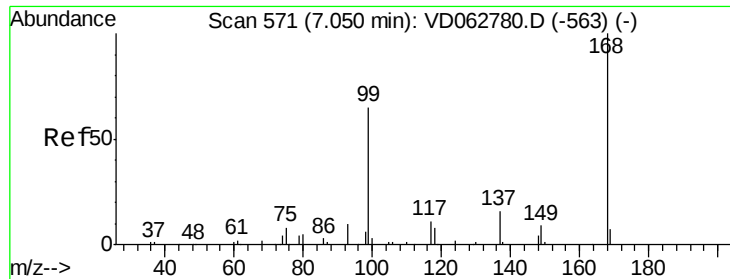
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

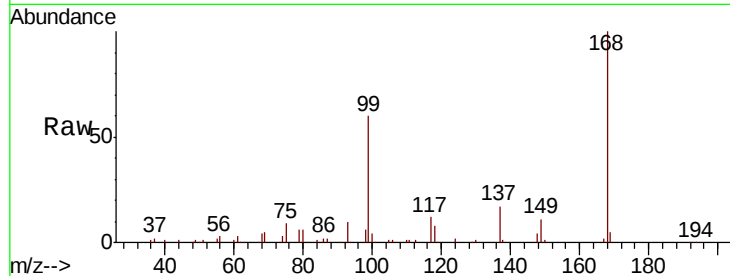
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 463522

Ion Ratio Lower Upper

168 100

99 59.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.08

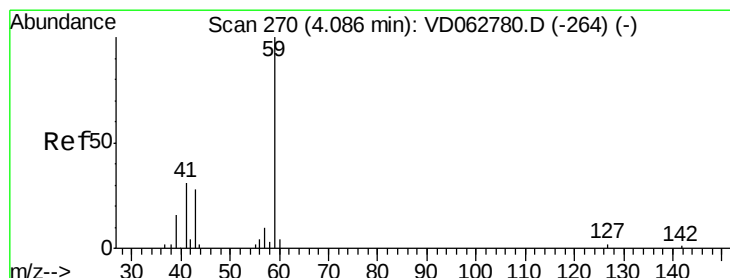
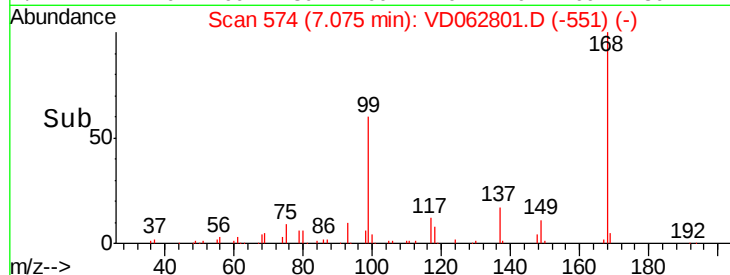
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.312 ug/l

RT: 4.10 min Scan# 272

Delta R.T. 0.02 min

Lab File: VD062801.D

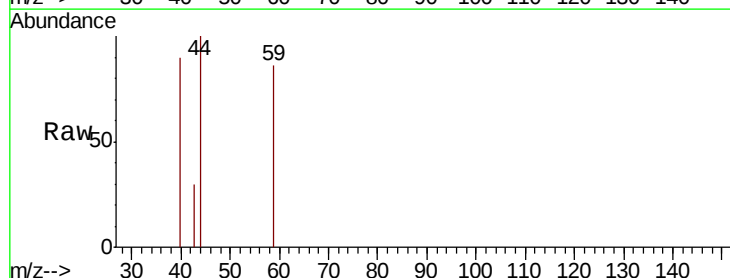
Acq: 20 Jun 2019 18:32

Tgt Ion: 59 Resp: 1219

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.10

1000

800

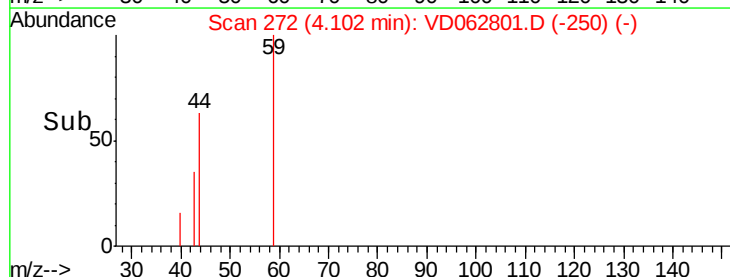
600

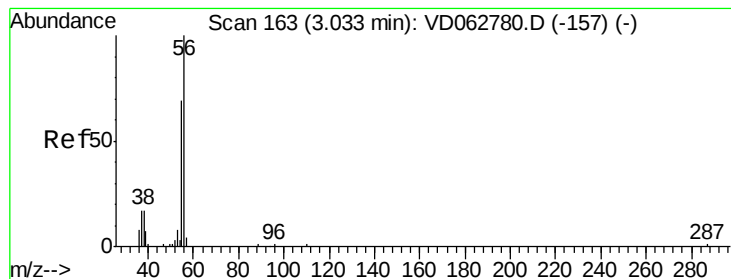
400

200

0

Time-->





#13

Acrolein

Concen: 1.315 ug/l

RT: 3.10 min Scan# 170

Delta R.T. 0.07 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

Instrument :

MSVOA_D

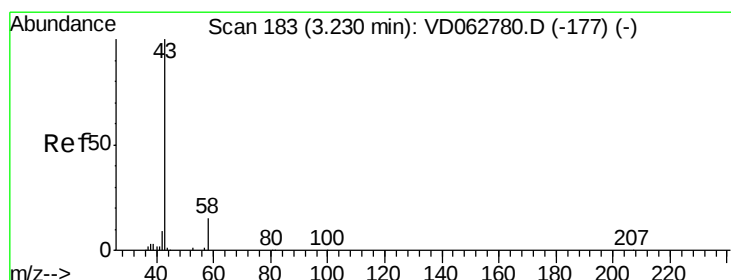
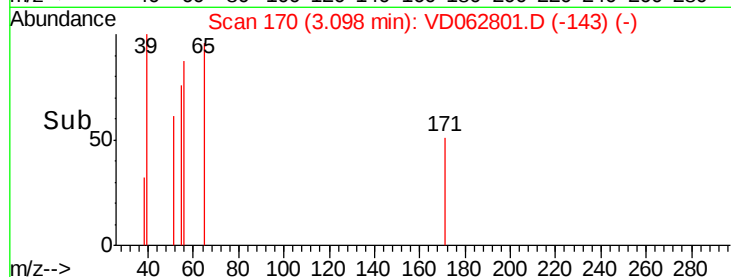
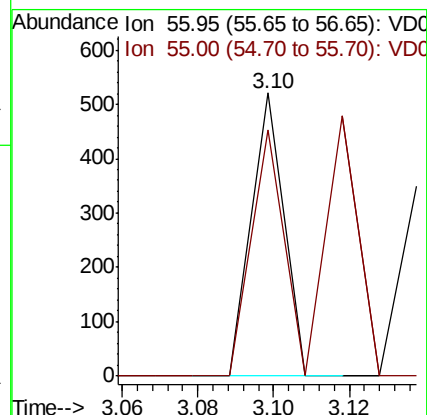
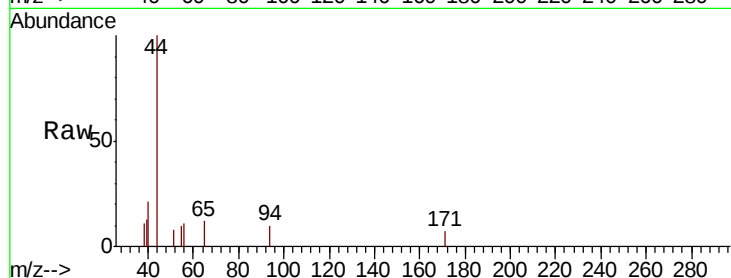
ClientSampleId :

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 86.8 55.4 83.0#



#16

Acetone

Concen: 175.349 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062801.D

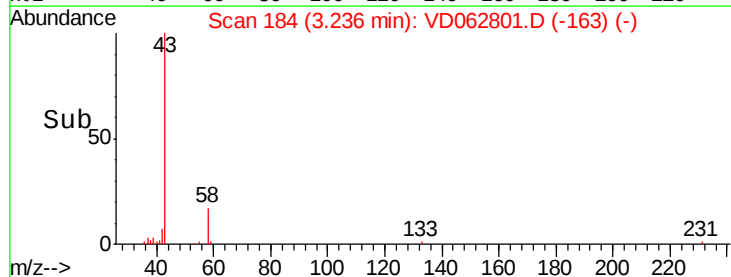
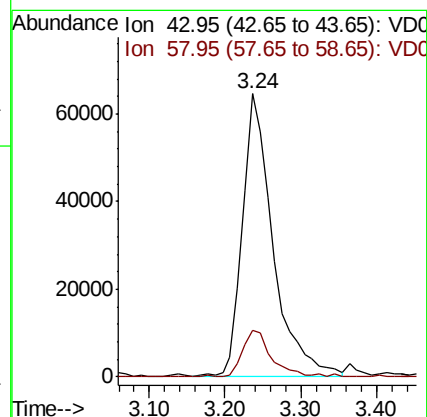
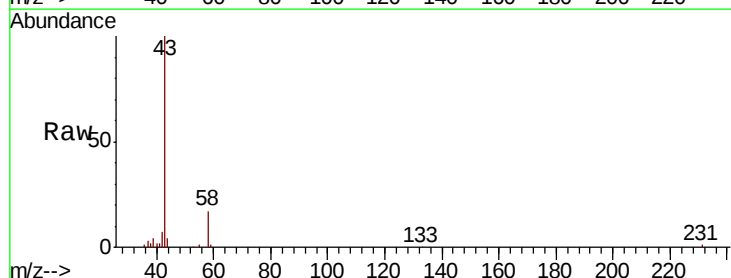
Acq: 20 Jun 2019 18:32

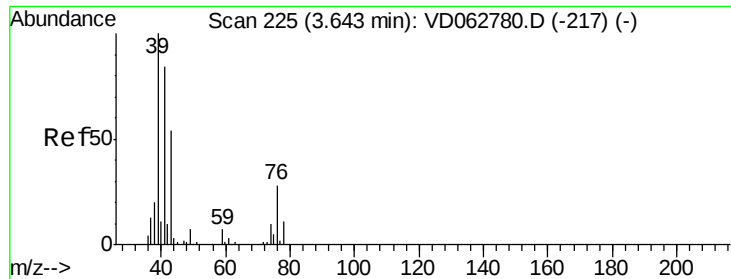
Tgt Ion: 43 Resp: 181297

Ion Ratio Lower Upper

43 100

58 16.6 11.9 17.9

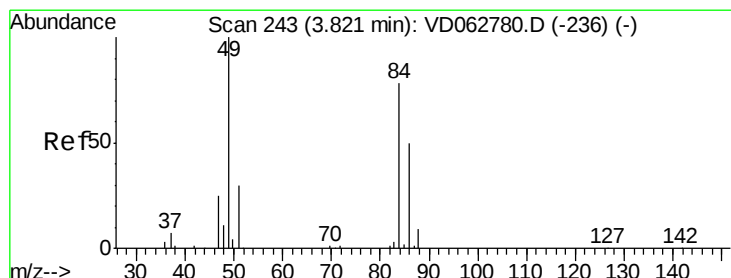
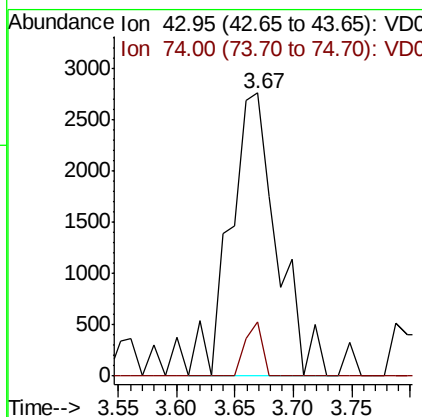
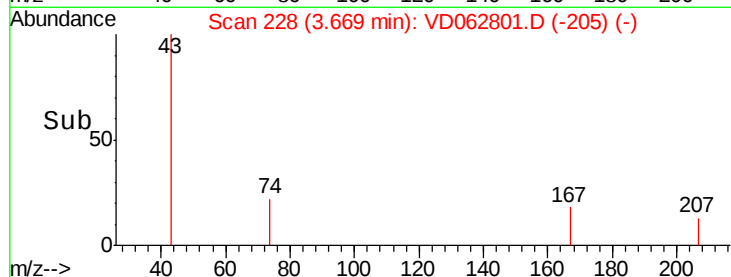
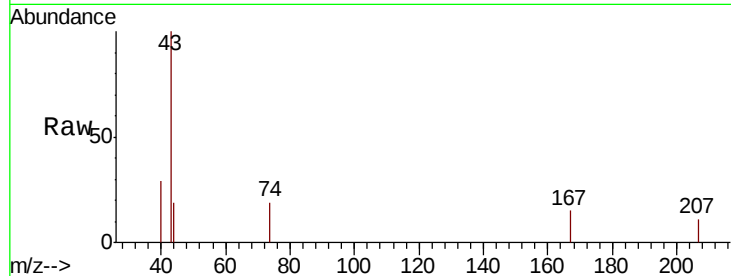




#18
Methyl Acetate
Concen: 5.088 ug/l
RT: 3.67 min Scan# 228
Delta R.T. 0.03 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

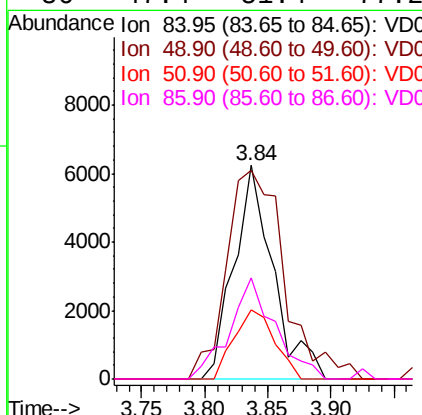
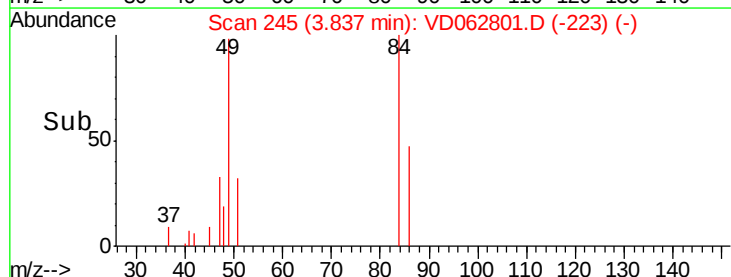
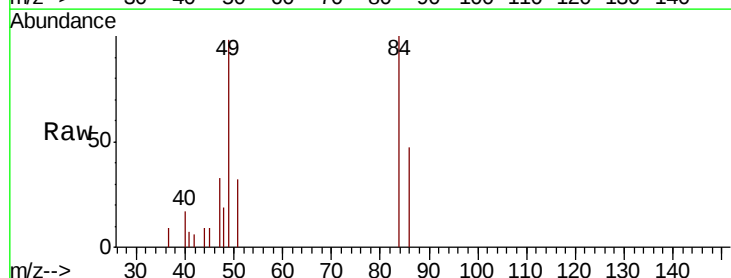
Instrument :
MSVOA_D
ClientSampleId :

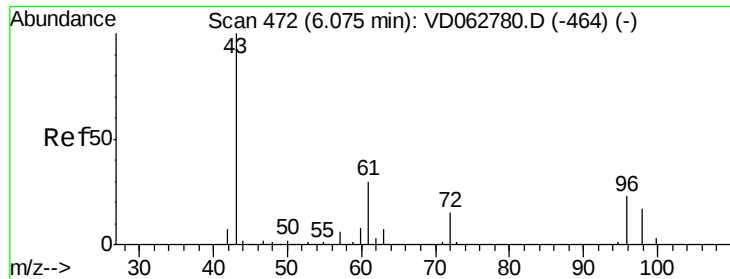
Tot Ion: 43 Resp: 7739
Ion Ratio Lower Upper
43 100
74 19.1 15.2 22.8



#20
Methylene Chloride
Concen: 3.502 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion: 84 Resp: 13455
Ion Ratio Lower Upper
84 100
49 97.7 102.9 154.3#
51 32.2 31.2 46.8
86 47.4 51.4 77.2#





#25

2-Butanone

Concen: 24.921 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

Instrument :

MSVOA_D

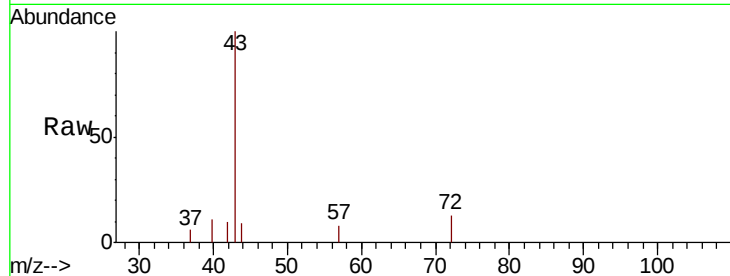
ClientSampleId :

Tot Ion: 43 Resp: 23484

Ion Ratio Lower Upper

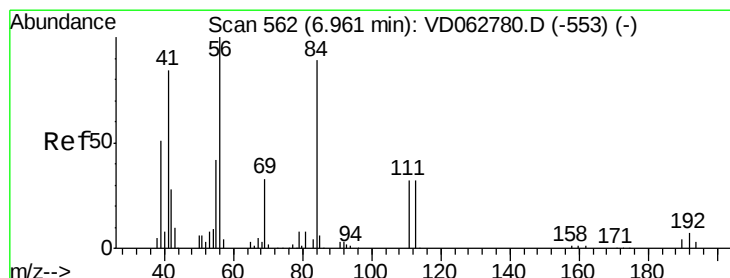
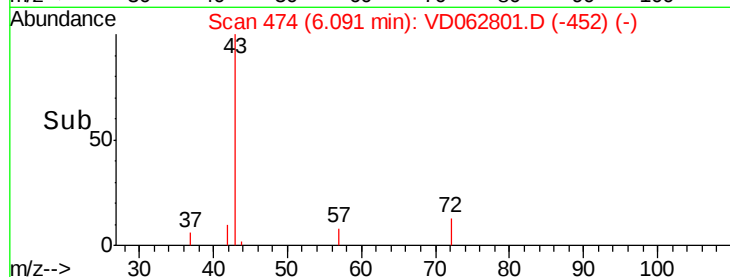
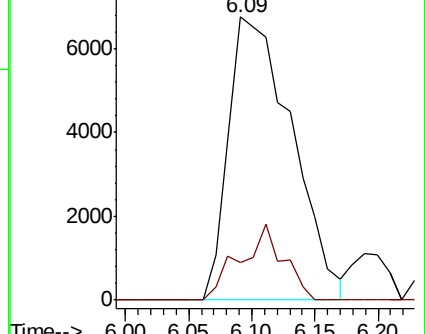
43 100

72 13.2 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.907 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.11 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

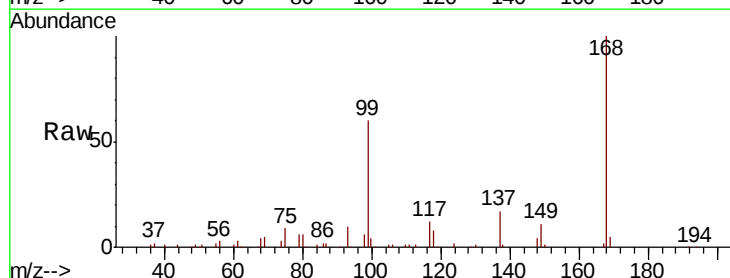
Tgt Ion: 56 Resp: 13754

Ion Ratio Lower Upper

56 100

69 182.7 26.6 39.8#

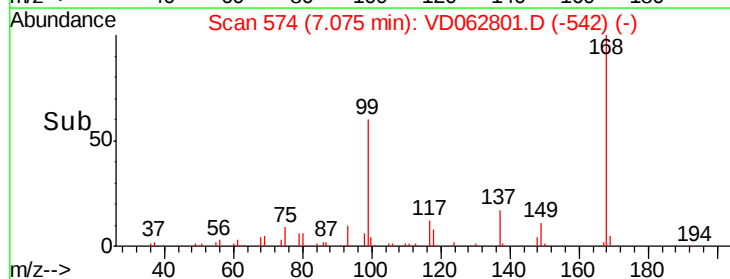
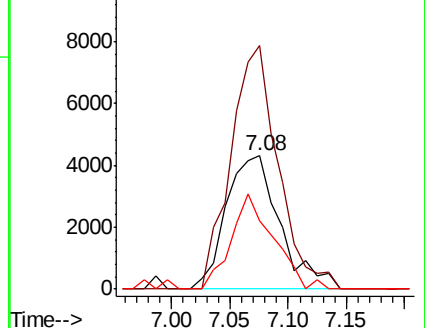
84 50.9 75.5 113.3#

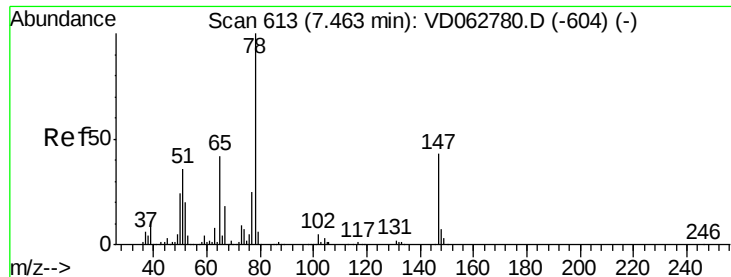


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

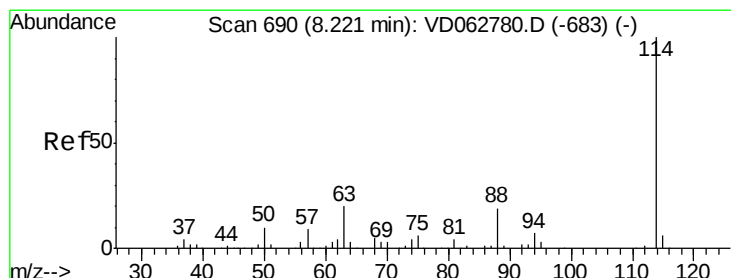
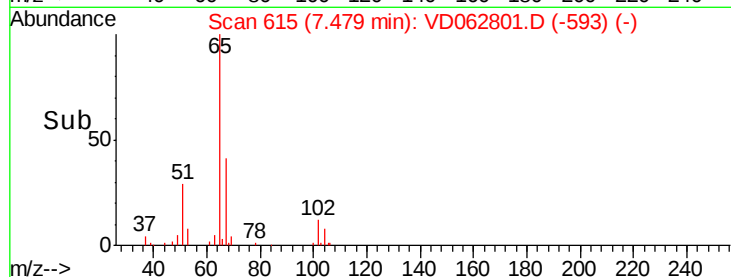
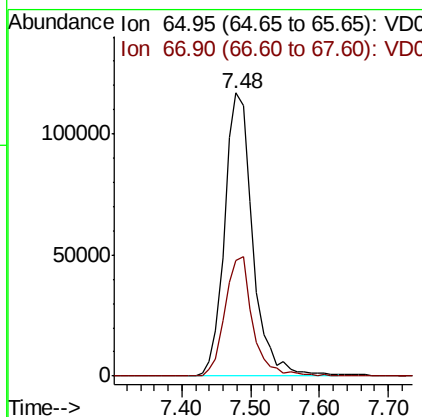
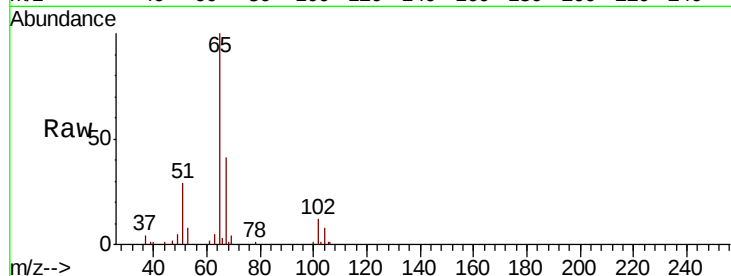




#33
 1,2-Dichloroethane-d4
 Concen: 65.575 ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.02 min
 Lab File: VD062801.D
 Acq: 20 Jun 2019 18:32

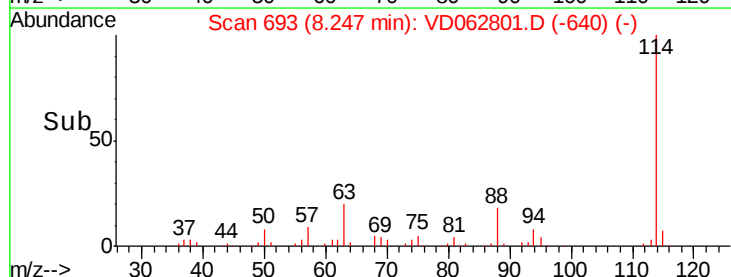
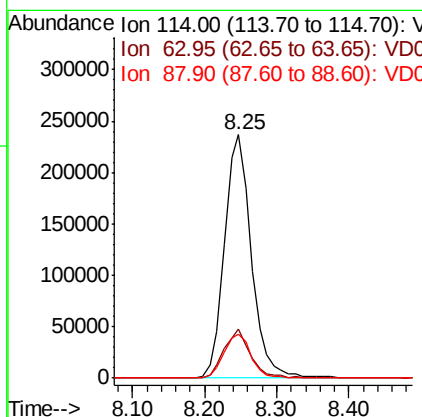
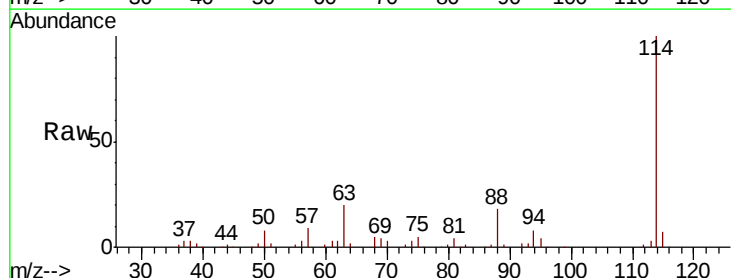
Instrument :
 MSVOA_D
 ClientSampleID :

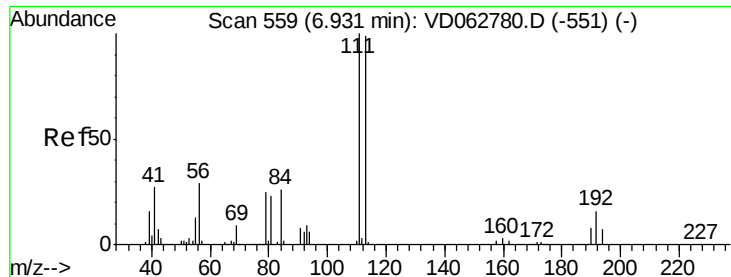
Tot Ion: 65 Resp: 330394
 Ion Ratio Lower Upper
 65 100
 67 40.9 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 693
 Delta R.T. 0.03 min
 Lab File: VD062801.D
 Acq: 20 Jun 2019 18:32

Tgt Ion: 114 Resp: 612642
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 18.1 0.0 38.8

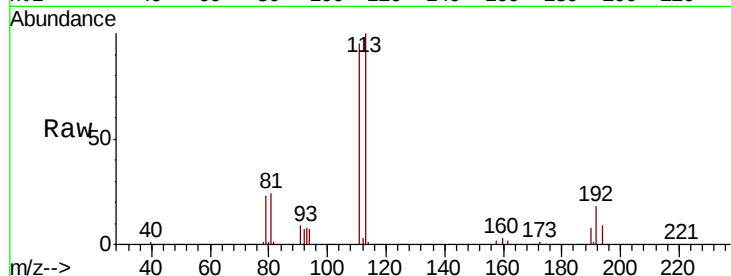




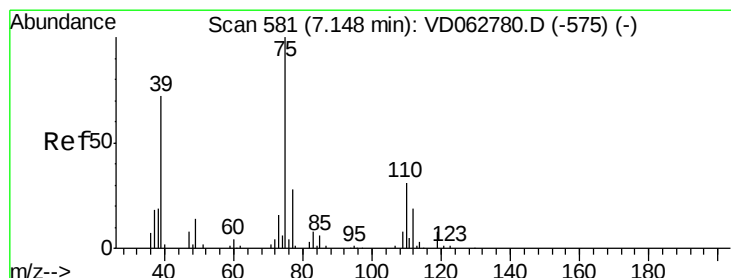
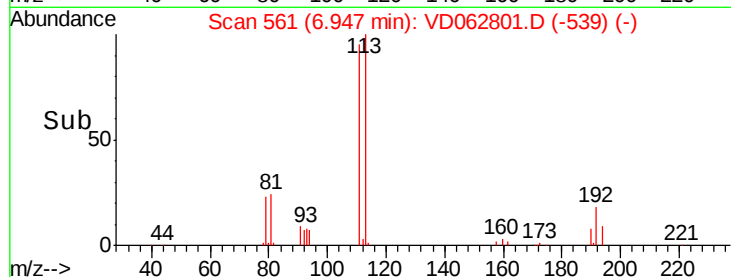
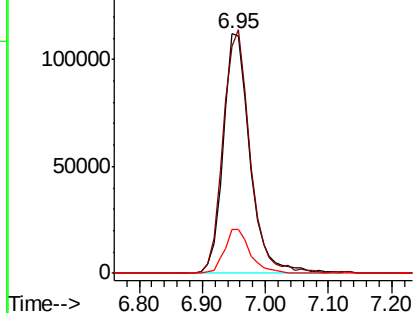
#35
Dibromofluoromethane
Concen: 63.887 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.02 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:113 Resp: 330025
Ion Ratio Lower Upper
113 100
111 94.6 81.2 121.8
192 18.1 12.9 19.3

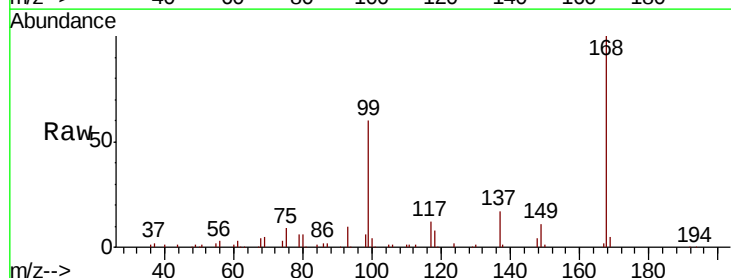


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

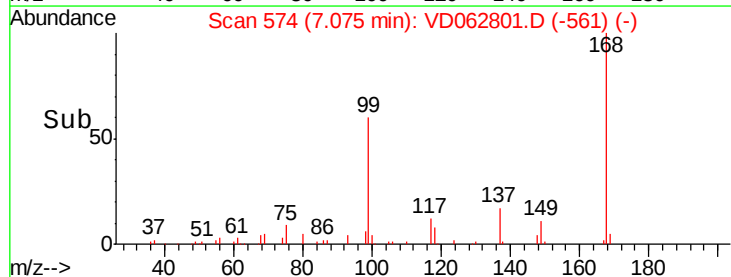
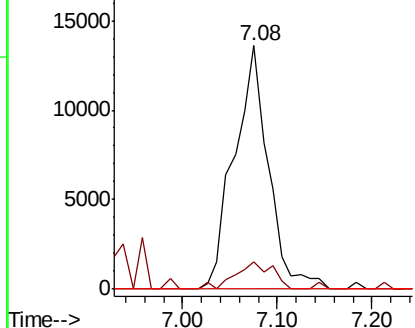


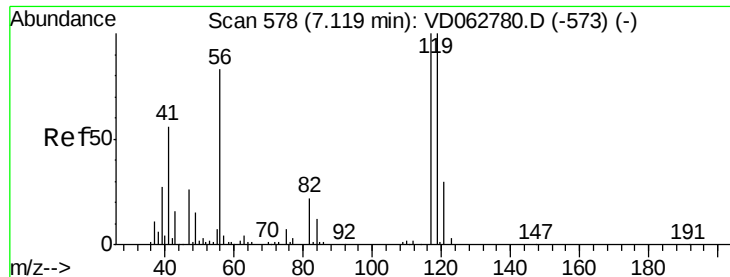
#36
1,1-Dichloropropene
Concen: 5.871 ug/l
RT: 7.08 min Scan# 574
Delta R.T. -0.07 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion: 75 Resp: 34051
Ion Ratio Lower Upper
75 100
110 11.2 15.0 45.1#
77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

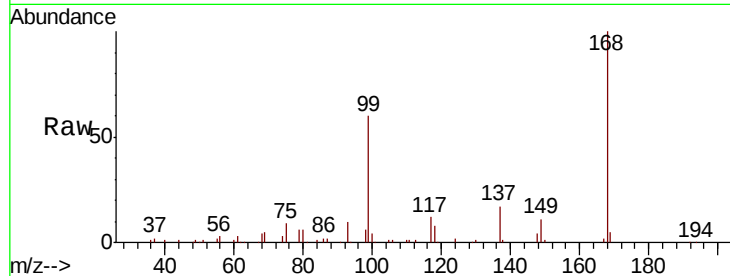




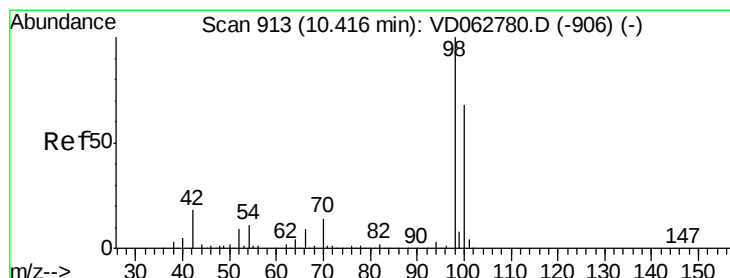
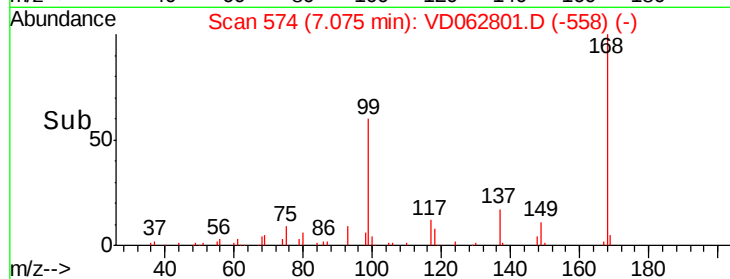
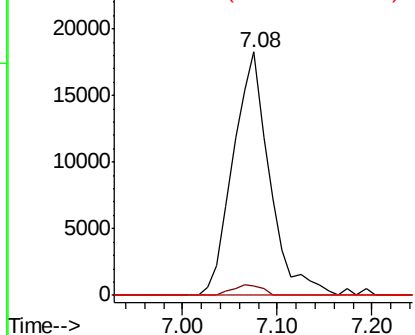
#38
Carbon Tetrachloride
Concen: 5.598 ug/l
RT: 7.08 min Scan# 574
Delta R.T. -0.04 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 48829
Ion Ratio Lower Upper
117 100
119 3.8 75.4 113.2#
121 0.0 22.3 33.5#

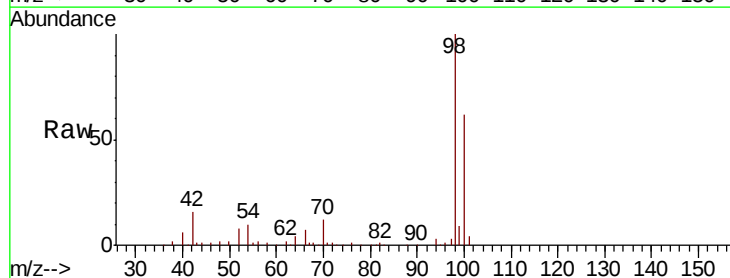


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

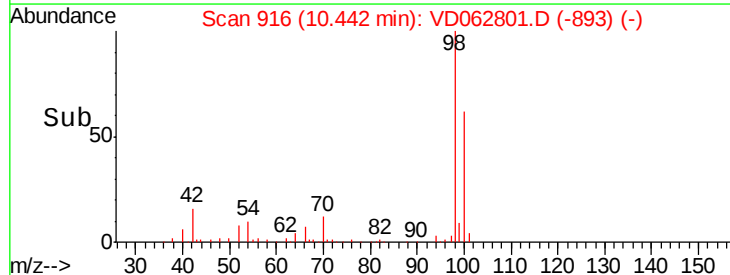
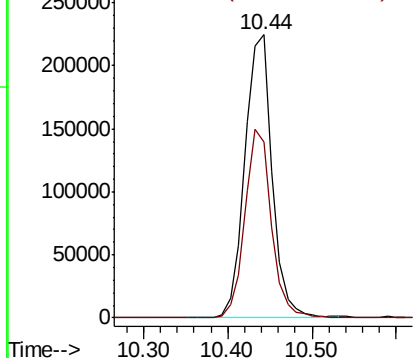


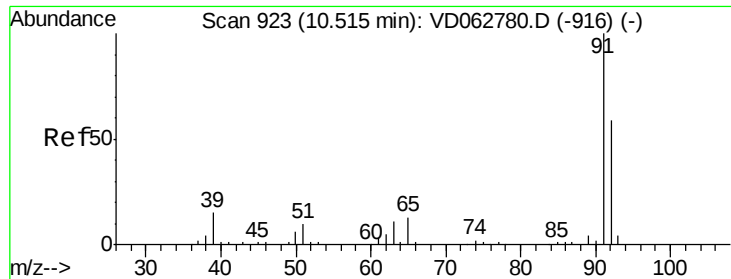
#50
Toluene-d8
Concen: 45.349 ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.03 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion: 98 Resp: 509865
Ion Ratio Lower Upper
98 100
100 62.3 54.7 82.1



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





#52

Toluene

Concen: 1.295 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.02 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

Instrument :

MSVOA_D

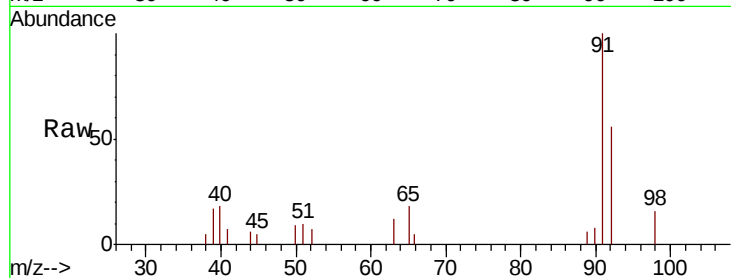
ClientSampleId :

Tot Ion: 92 Resp: 10135

Ion Ratio Lower Upper

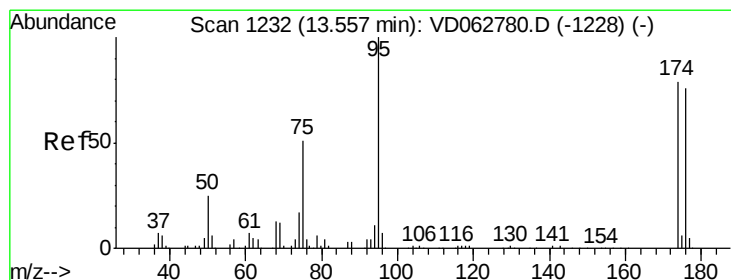
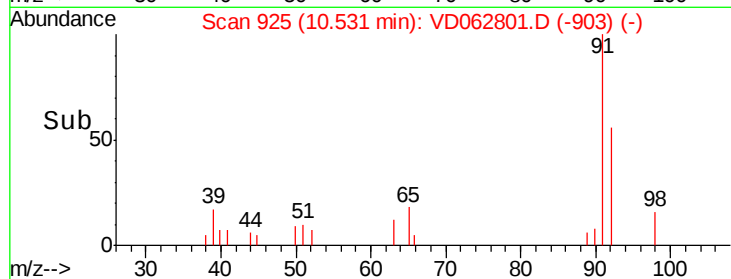
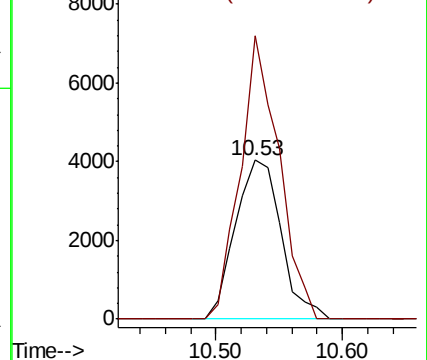
92 100

91 178.3 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 29.631 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

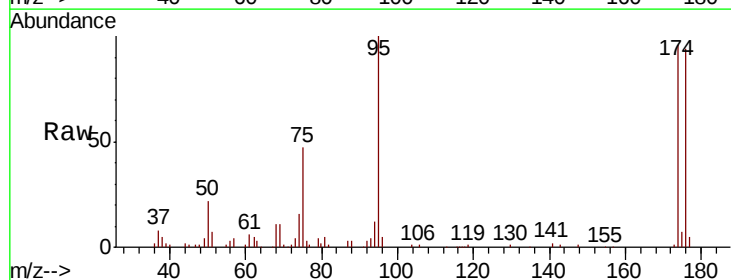
Tgt Ion: 95 Resp: 151483

Ion Ratio Lower Upper

95 100

174 95.7 0.0 158.0

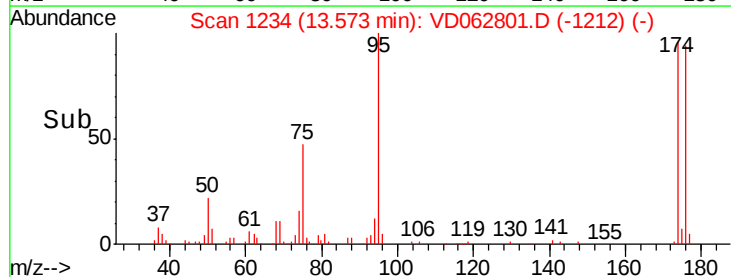
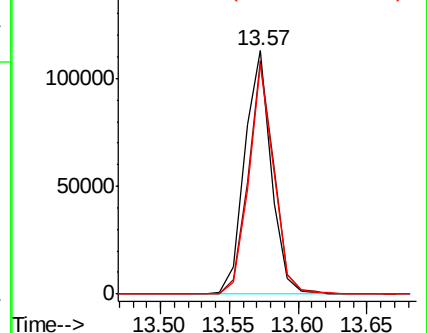
176 94.1 0.0 151.6

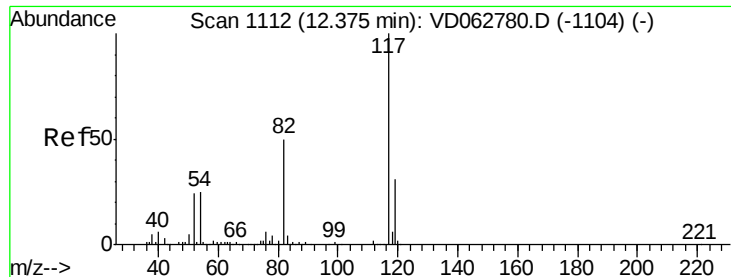


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

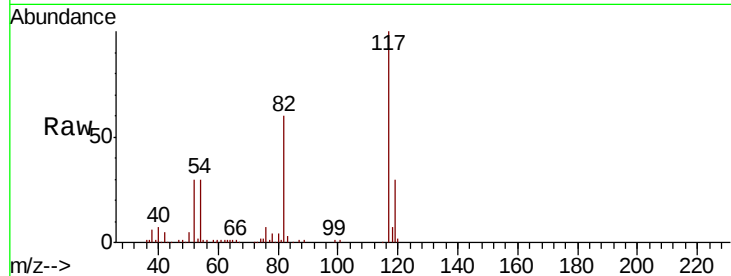




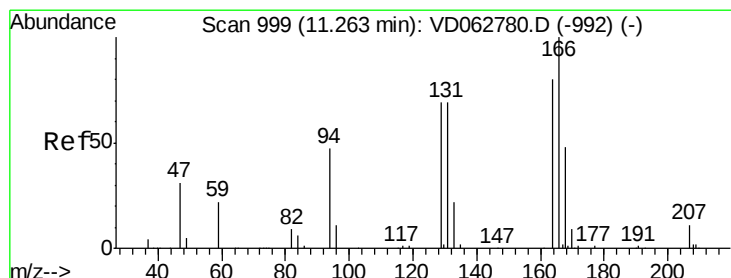
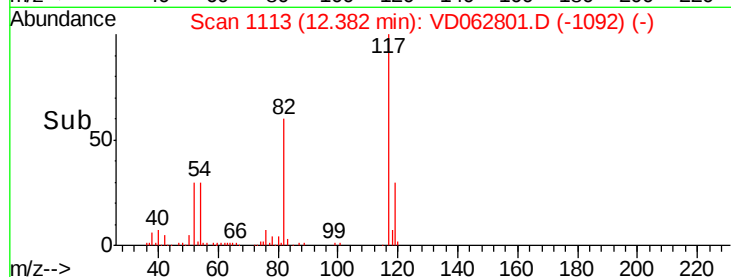
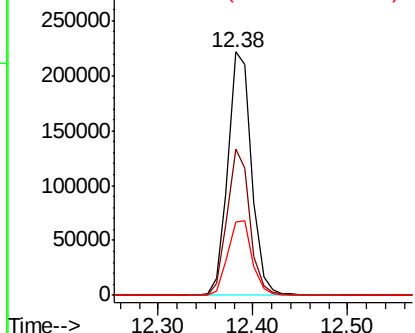
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 383868
Ion Ratio Lower Upper
117 100
82 60.0 40.4 60.6
119 30.2 25.2 37.8

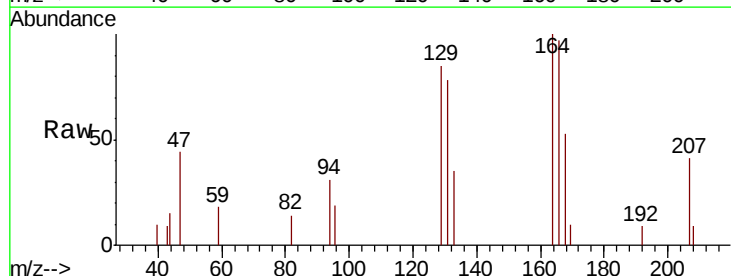


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

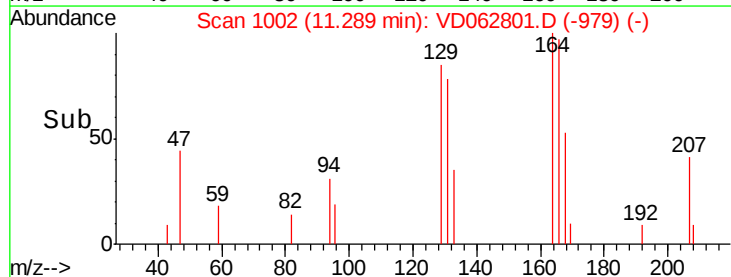
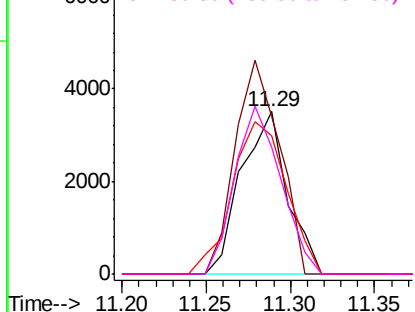


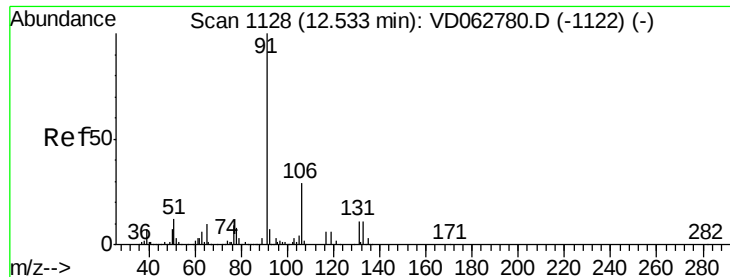
#64
Tetrachloroethene
Concen: 2.098 ug/l
RT: 11.29 min Scan# 1002
Delta R.T. 0.03 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion:164 Resp: 6628
Ion Ratio Lower Upper
164 100
166 97.1 100.6 150.8#
129 85.0 69.4 104.0
131 78.4 69.3 103.9



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

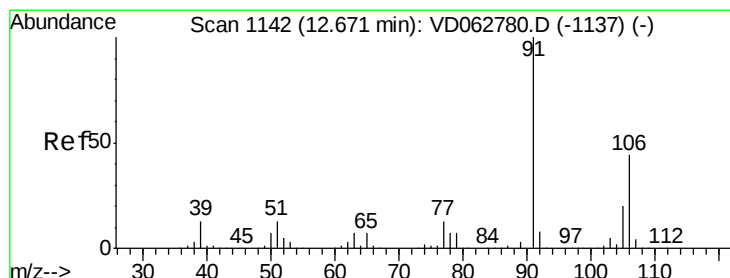
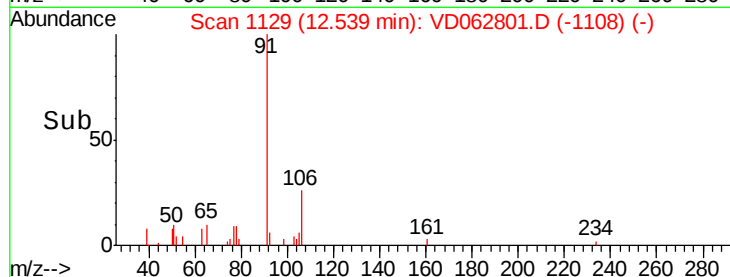
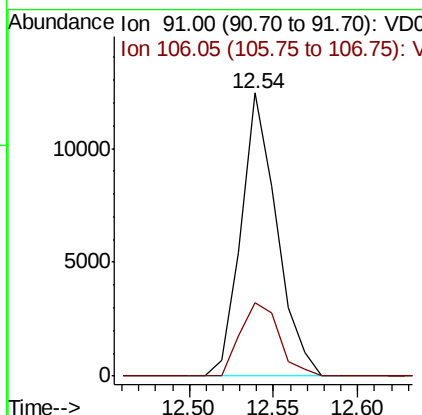
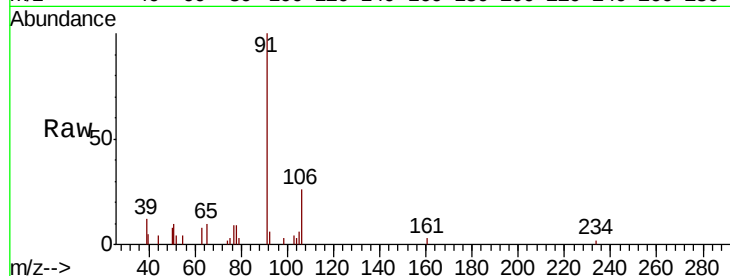




#67
Ethyl Benzene
Concen: 1.427 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

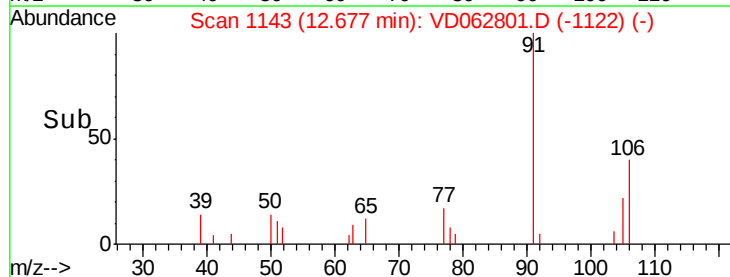
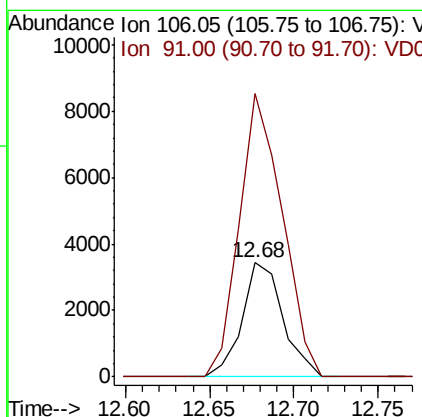
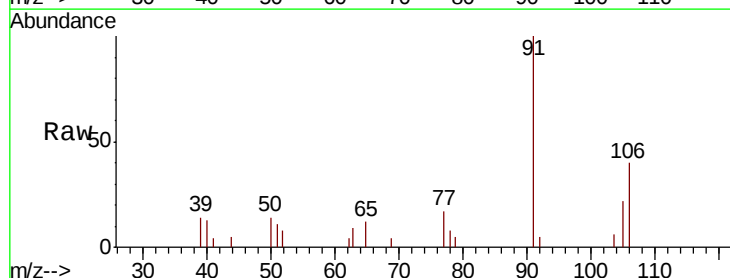
Instrument :
MSVOA_D
ClientSampled :

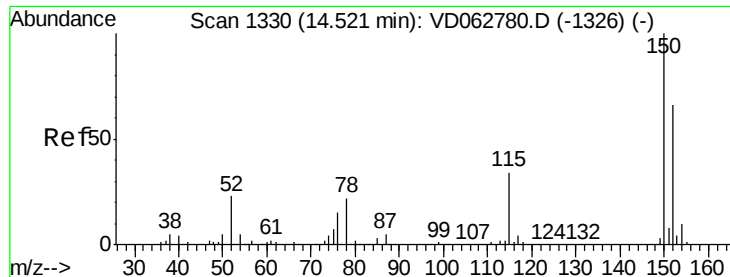
Tot Ion: 91 Resp: 18249
Ion Ratio Lower Upper
91 100
106 26.0 23.1 34.7



#68
m/p-Xylenes
Concen: 1.295 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion: 106 Resp: 5767
Ion Ratio Lower Upper
106 100
91 247.6 183.0 274.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD062801.D

Acq: 20 Jun 2019 18:32

Instrument :

MSVOA_D

ClientSampleId :

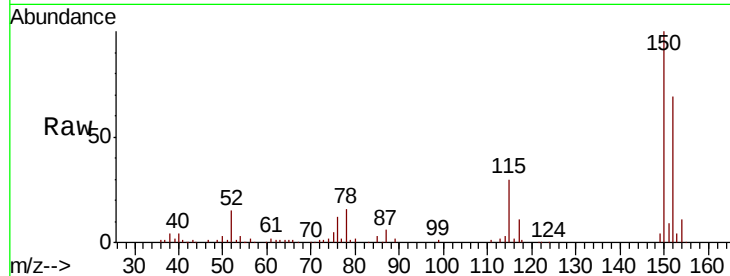
Tot Ion:152 Resp: 116968

Ion Ratio Lower Upper

152 100

115 43.7 29.2 87.6

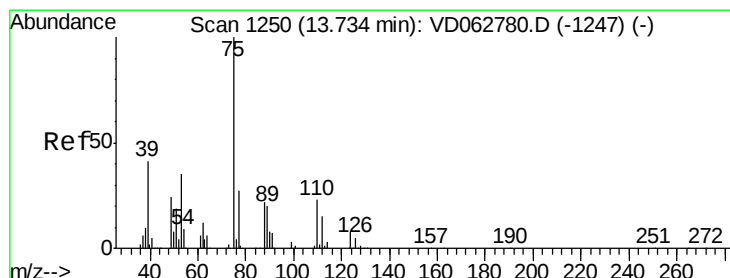
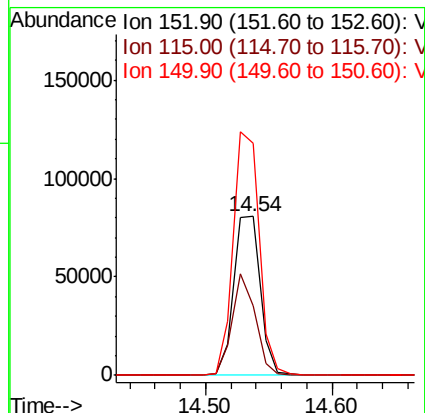
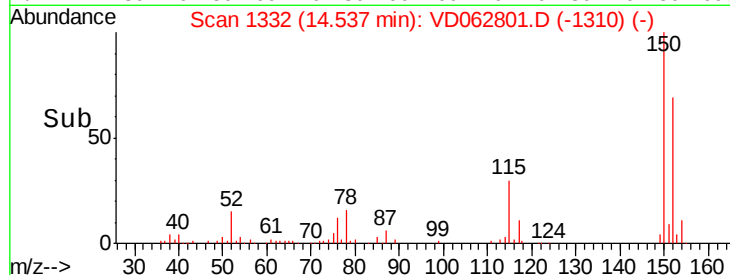
150 145.9 0.0 305.8



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



#76

1,2,3-Trichloropropane

Concen: 51.935 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062801.D

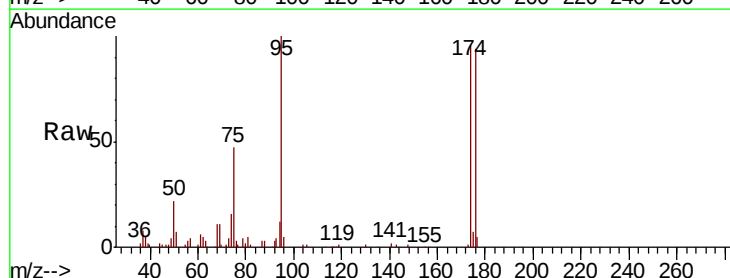
Acq: 20 Jun 2019 18:32

Tgt Ion: 75 Resp: 70128

Ion Ratio Lower Upper

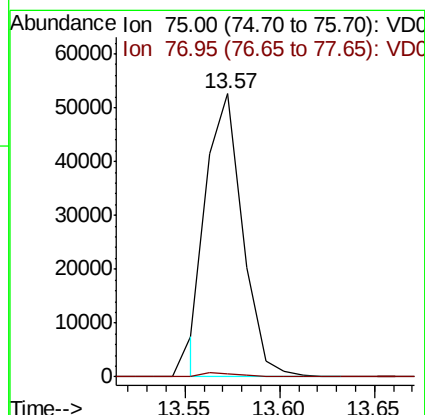
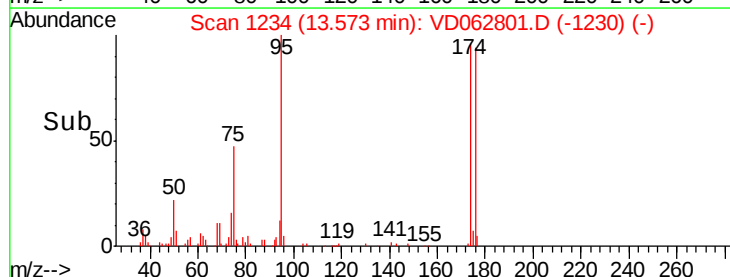
75 100

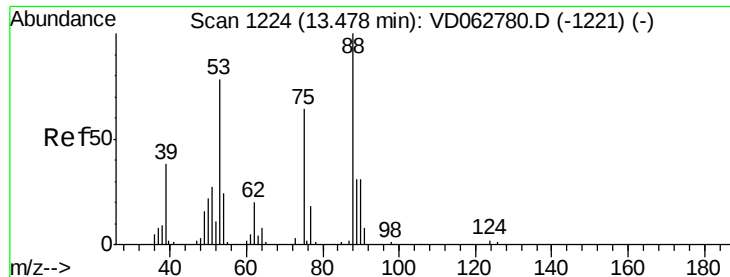
77 1.3 15.0 45.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

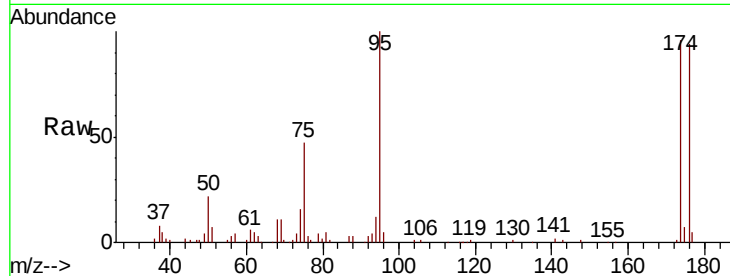




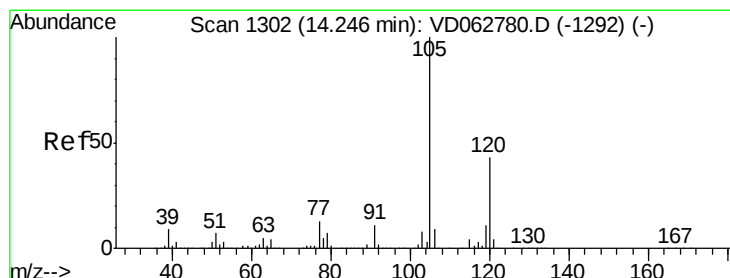
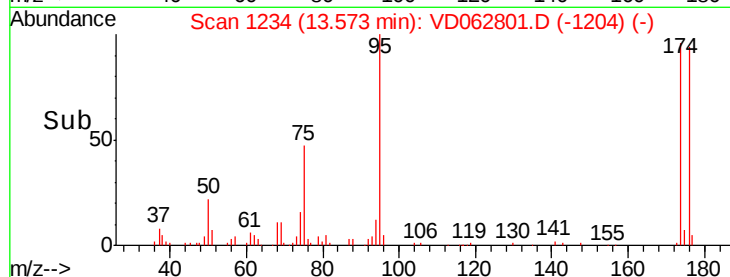
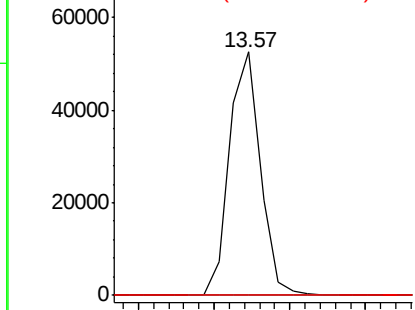
#81
trans-1,4-Dichloro-2-butene
Concen: 210.483 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.09 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 74489
Ion Ratio Lower Upper
75 100
53 0.0 97.8 146.8#
89 0.0 39.4 59.2#

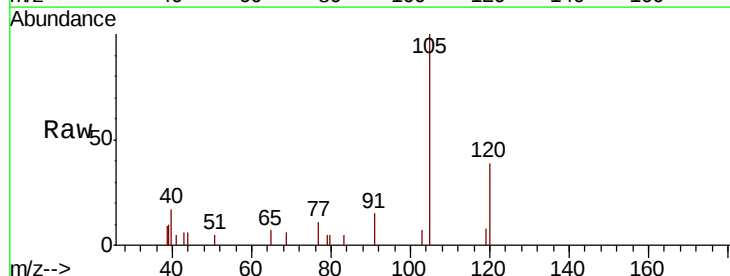


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

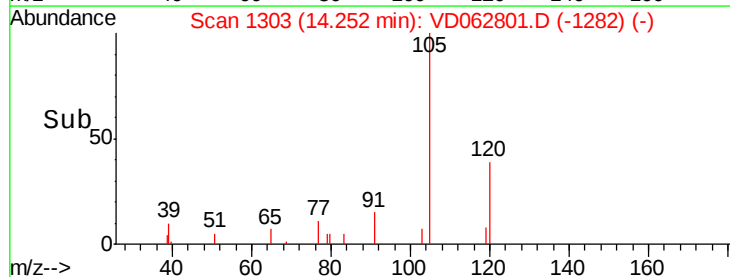
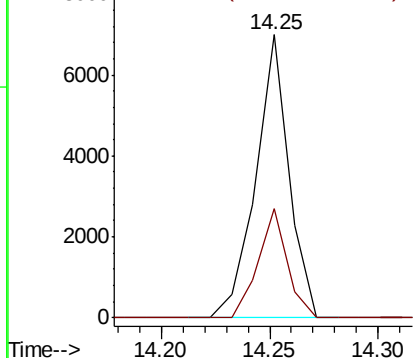


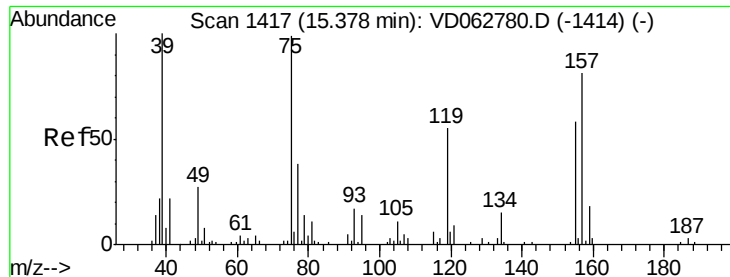
#84
1,2,4-Trimethylbenzene
Concen: 1.158 ug/l
RT: 14.25 min Scan# 1303
Delta R.T. 0.01 min
Lab File: VD062801.D
Acq: 20 Jun 2019 18:32

Tgt Ion:105 Resp: 7474
Ion Ratio Lower Upper
105 100
120 38.6 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V

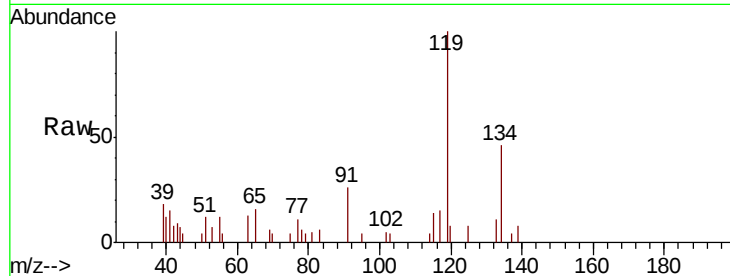




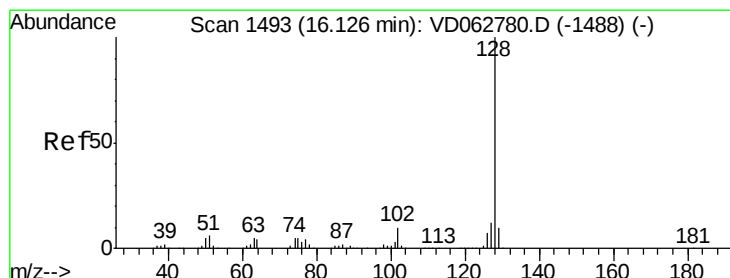
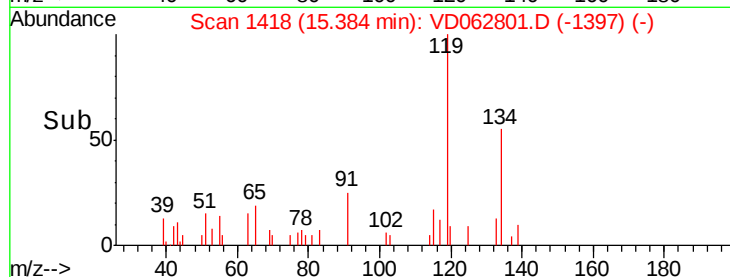
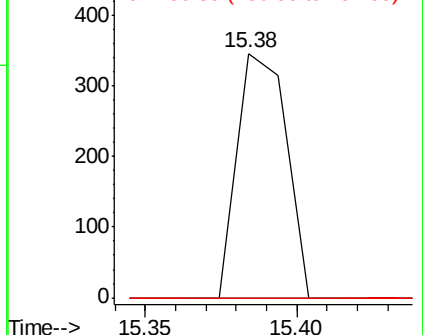
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.635 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD062801.D
 Acq: 20 Jun 2019 18:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 390
 Ion Ratio Lower Upper
 75 100
 155 0.0 29.3 87.8#
 157 0.0 41.3 123.7#

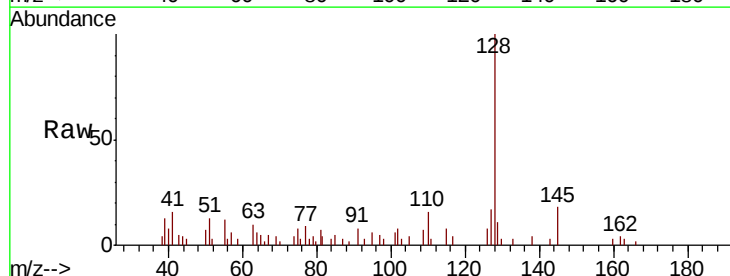


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V



#95
 Naphthalene
 Concen: 6.174 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062801.D
 Acq: 20 Jun 2019 18:32

Tgt Ion: 128 Resp: 20912
 Ion Ratio Lower Upper
 128 100
 127 17.5 9.7 14.5#
 129 13.3 8.3 12.5#



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

