

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060319\
 Data File : VD062590.D
 Acq On : 3 Jun 2019 17:18
 Operator : VA/AP
 Sample : K3165-02RE
 Misc : 1.02g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 04 05:52:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	331854	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	467814	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	299496	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	106035	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	206100	52.97	ug/l	-0.01
Spiked Amount				50.000		
Recovery						105.94%
35) Dibromofluoromethane	6.93	113	192310	45.11	ug/l	-0.01
Spiked Amount				50.000		
Recovery						90.22%
50) Toluene-d8	10.41	98	320998	34.37	ug/l	-0.01
Spiked Amount				50.000		
Recovery						68.74%
62) 4-Bromofluorobenzene	13.55	95	117994	28.01	ug/l	-0.01
Spiked Amount				50.000		
Recovery						56.02%

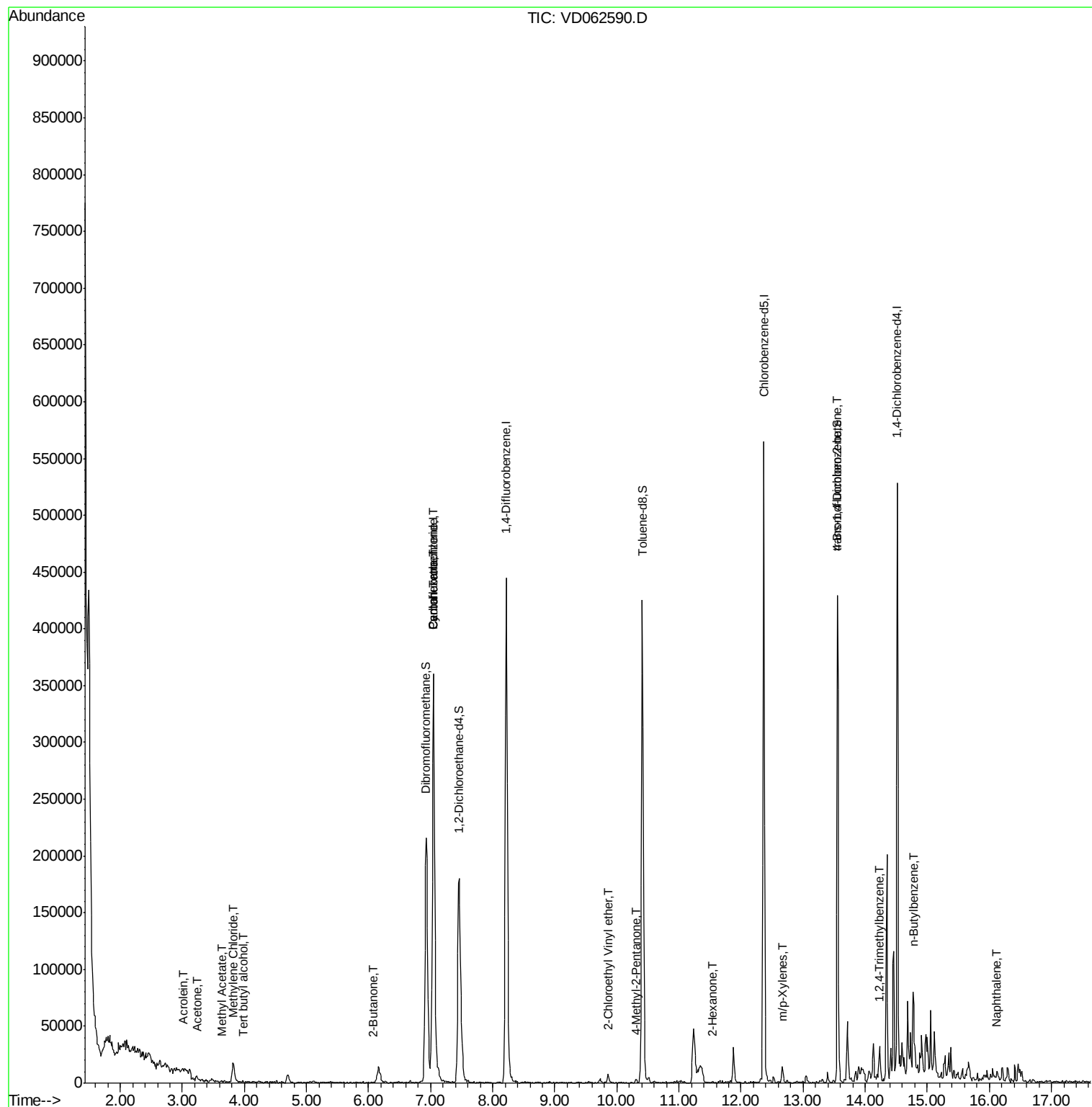
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	2068	Below Cal		# 43
11) Tert butyl alcohol	3.97	59	235	1.416	ug/l #	80
13) Acrolein	3.02	56	211	2.918	ug/l #	79
16) Acetone	3.24	43	10877	14.227	ug/l #	84
18) Methyl Acetate	3.64	43	2991	2.397	ug/l #	63
20) Methylene Chloride	3.82	84	12058	4.261	ug/l #	83
25) 2-Butanone	6.08	43	1155	1.604	ug/l #	62
31) Cyclohexane	7.05	56	8215	2.273	ug/l #	18
38) Carbon Tetrachloride	7.05	117	39094	5.639	ug/l #	17
51) 4-Methyl-2-Pentanone	10.30	43	2863	1.679	ug/l #	70
58) 2-Chloroethyl Vinyl ether	9.86	63	3765	3.365	ug/l #	83
59) 2-Hexanone	11.54	43	1550	1.296	ug/l	90
68) m/p-Xylenes	12.66	106	4305	1.164	ug/l	76
81) trans-1,4-Dichloro-2-buten	13.55	75	59169	162.323	ug/l #	5
84) 1,2,4-Trimethylbenzene	14.24	105	10820	1.778	ug/l	89
89) n-Butylbenzene	14.78	91	10830	1.839	ug/l #	14
95) Naphthalene	16.12	128	5722	1.880	ug/l #	88

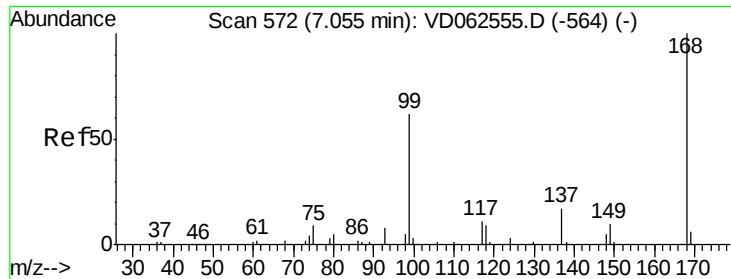
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

Instrument :

MSVOA_D

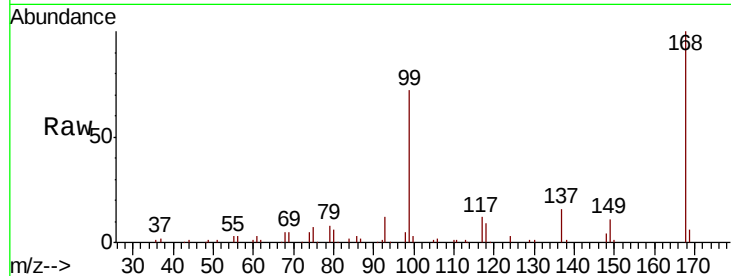
ClientSampled :

Tot Ion:168 Resp: 331854

Ion Ratio Lower Upper

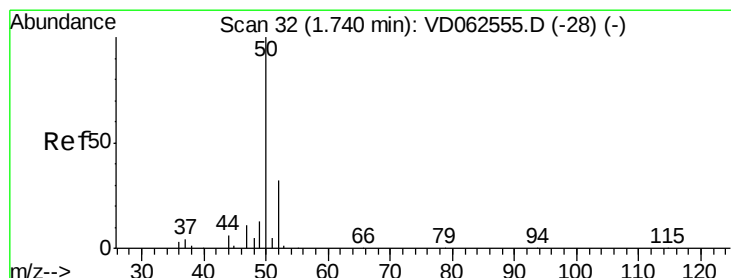
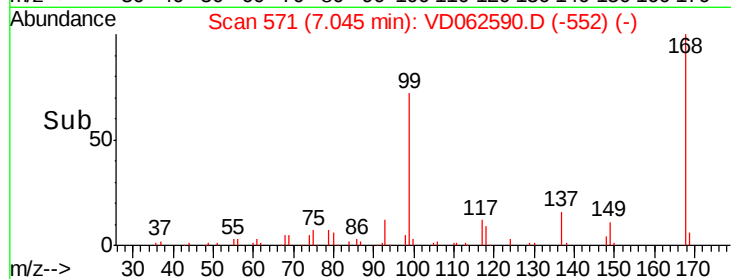
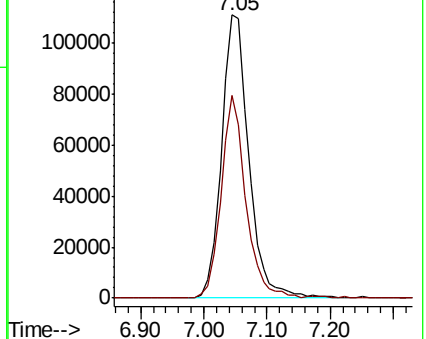
168 100

99 71.6 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062590.D

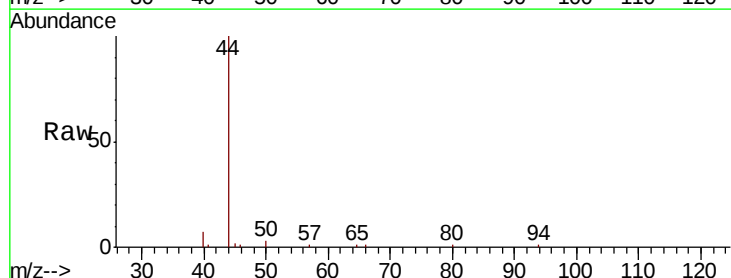
Acq: 3 Jun 2019 17:18

Tgt Ion: 50 Resp: 2068

Ion Ratio Lower Upper

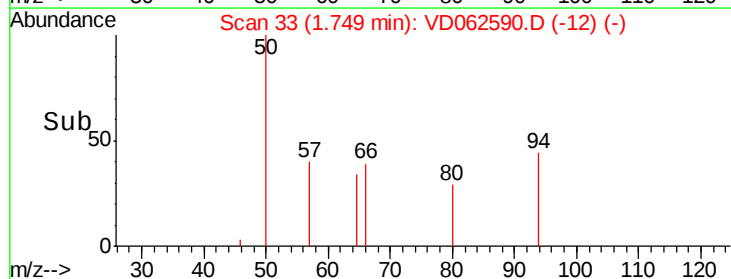
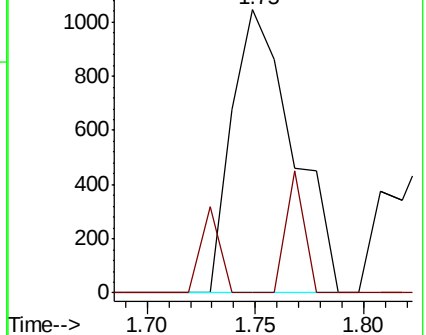
50 100

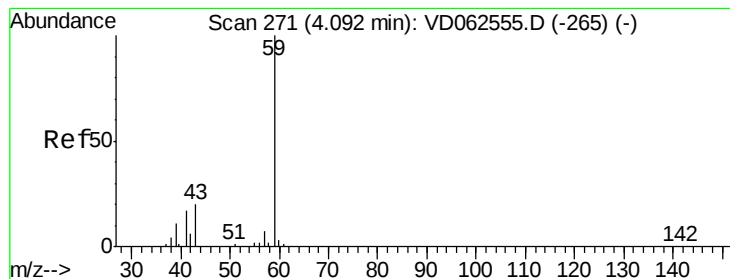
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



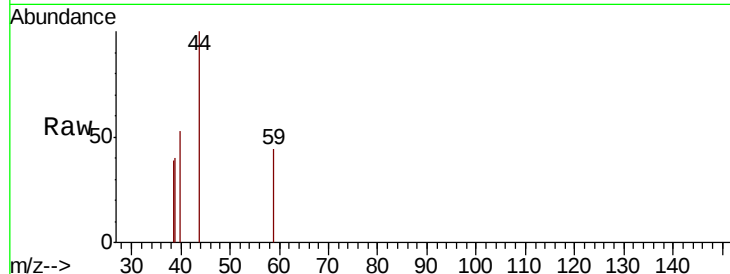


#11

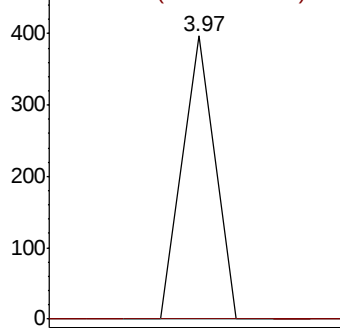
Tert butyl alcohol
 Concen: 1.416 ug/l
 RT: 3.97 min Scan# 259
 Delta R.T. -0.12 min
 Lab File: VD062590.D
 Acq: 3 Jun 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :

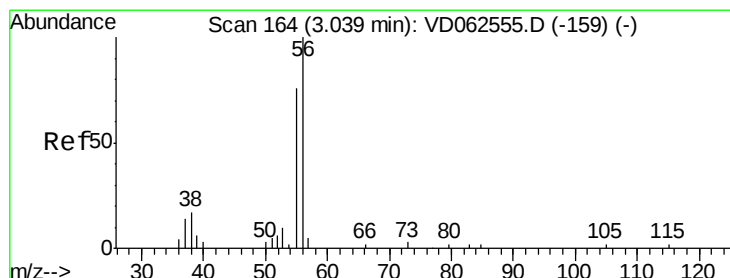
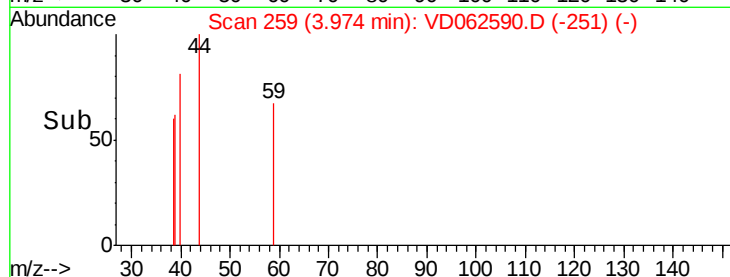
Tot Ion: 59 Resp: 235
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.4 8.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



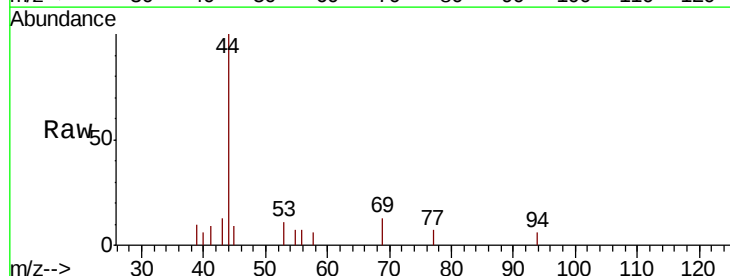
Time--> 3.94 3.96 3.98 4.00



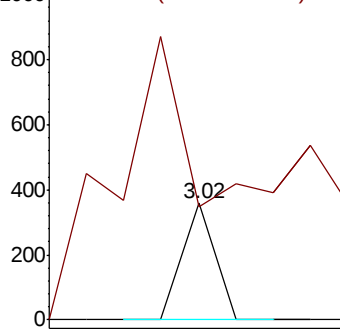
#13

Acrolein
 Concen: 2.918 ug/l
 RT: 3.02 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VD062590.D
 Acq: 3 Jun 2019 17:18

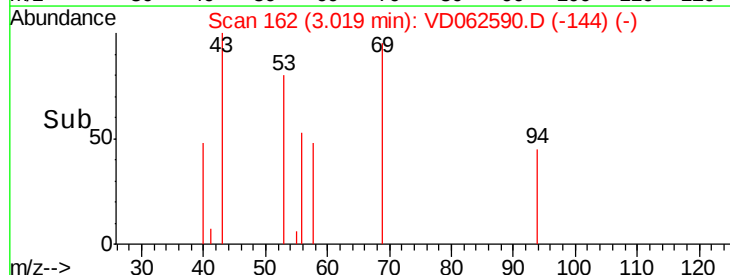
Tgt Ion: 56 Resp: 211
 Ion Ratio Lower Upper
 56 100
 55 96.6 62.6 93.8#

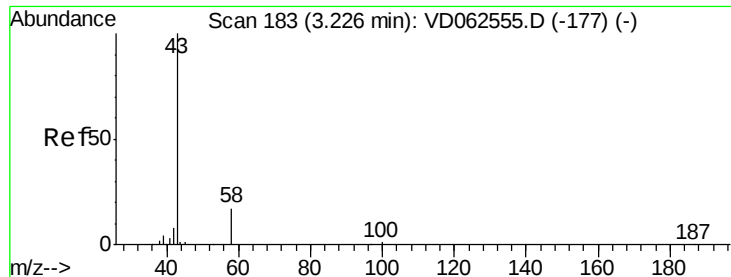


Abundance Ion 55.95 (55.65 to 56.65): VDC
 Ion 55.00 (54.70 to 55.70): VDC



Time--> 2.98 3.00 3.02 3.04





#16

Acetone

Concen: 14.227 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

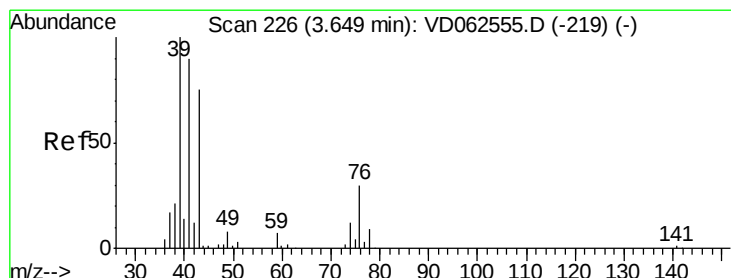
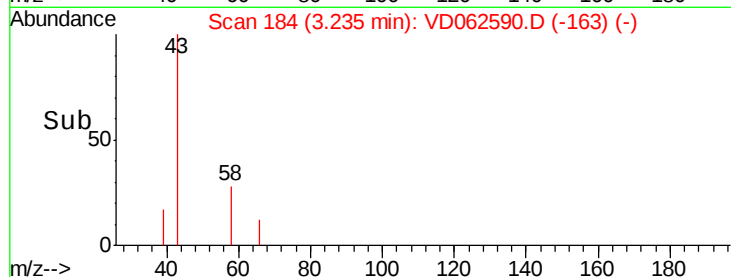
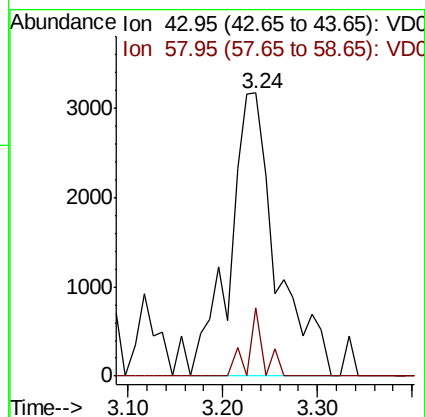
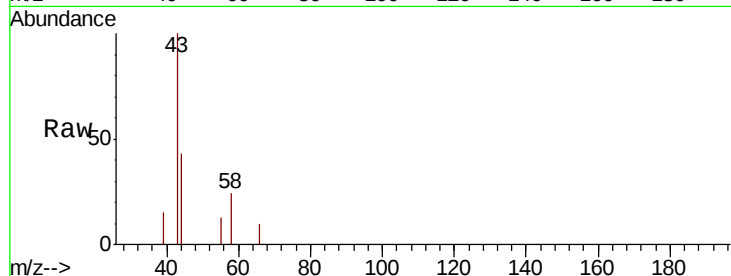
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 10877

Ion Ratio Lower Upper

43 100

58 24.1 13.8 20.8#



#18

Methyl Acetate

Concen: 2.397 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD062590.D

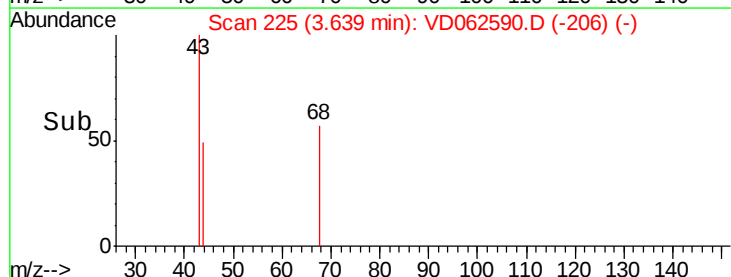
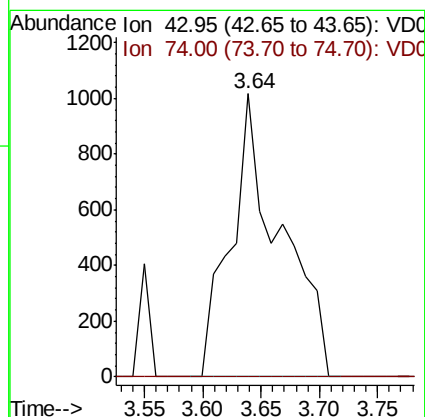
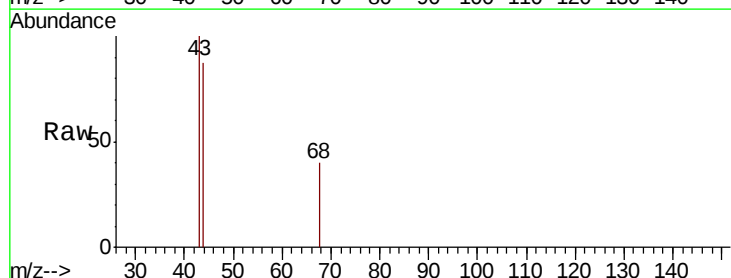
Acq: 3 Jun 2019 17:18

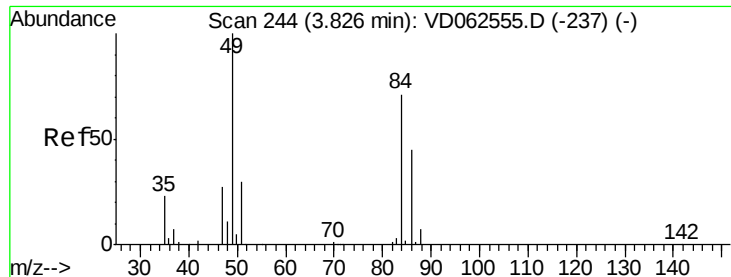
Tgt Ion: 43 Resp: 2991

Ion Ratio Lower Upper

43 100

74 0.0 12.5 18.7#

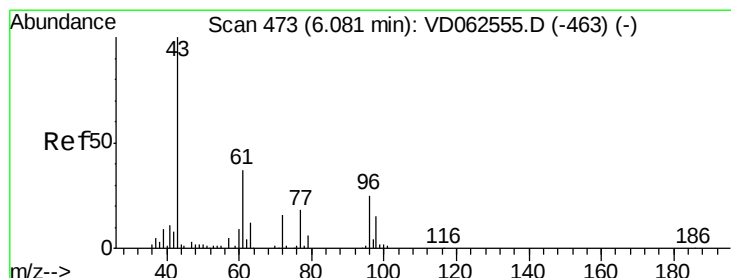
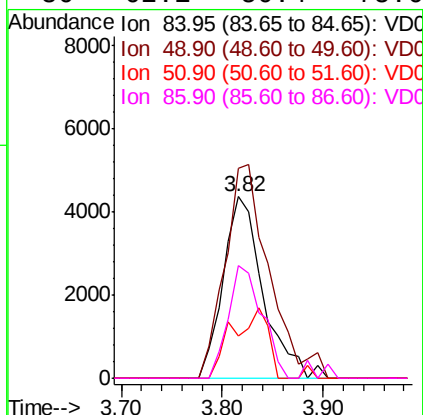
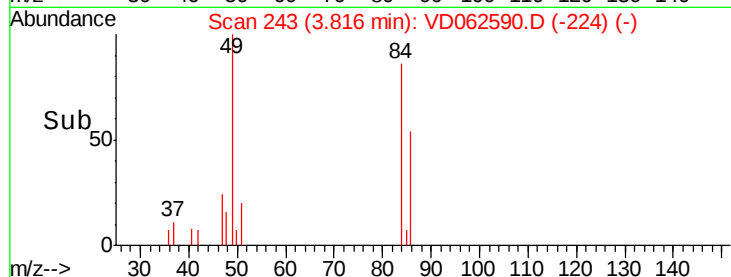
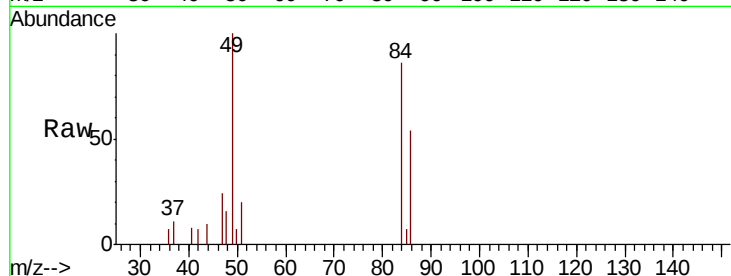




#20
Methvlene Chloride
Concen: 4.261 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

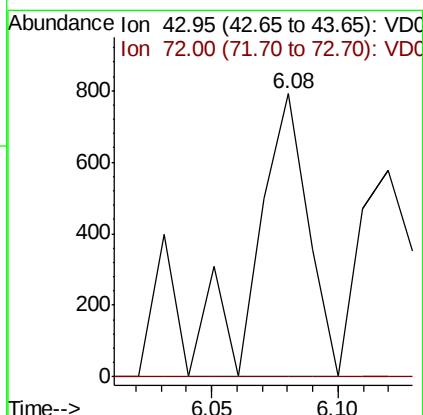
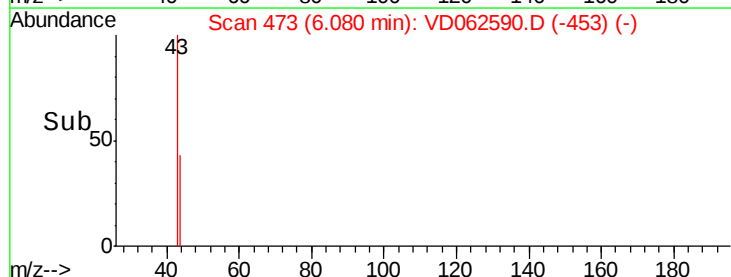
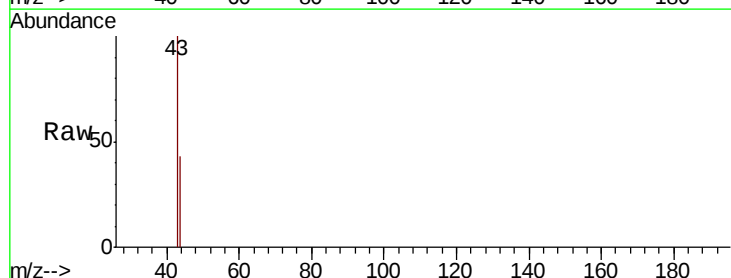
Instrument :
MSVOA_D
ClientSampleId :

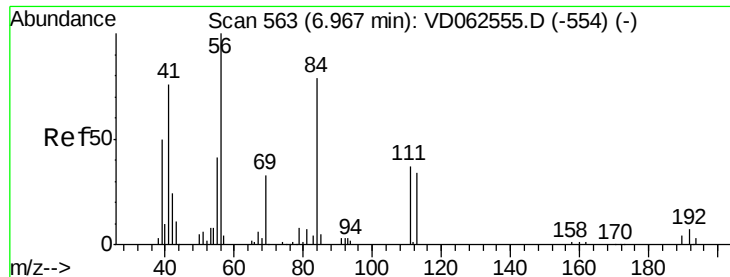
Tot Ion: 84 Resp: 12058
Ion Ratio Lower Upper
84 100
49 115.7 112.3 168.5
51 23.3 33.6 50.4#
86 62.1 50.4 75.6



#25
2-Butanone
Concen: 1.604 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.00 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Tgt Ion: 43 Resp: 1155
Ion Ratio Lower Upper
43 100
72 0.0 12.7 19.1#

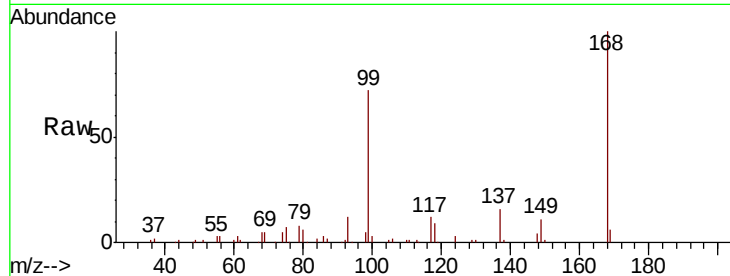




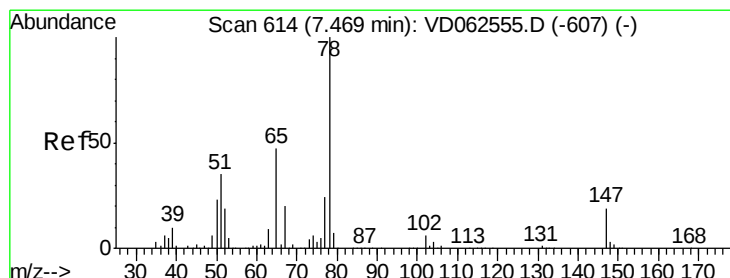
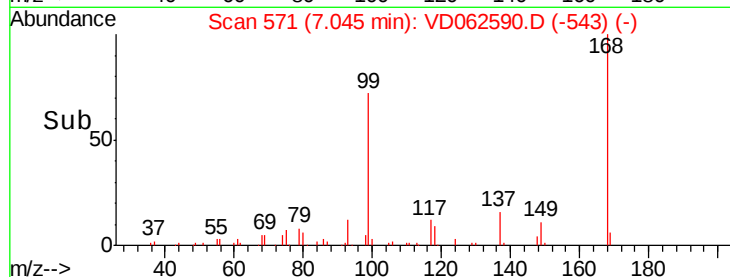
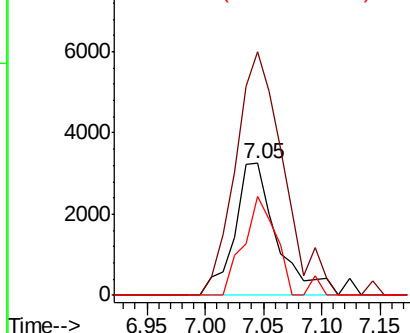
#31
Cyclohexane
Concen: 2.273 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 8215
Ion Ratio Lower Upper
56 100
69 184.3 26.2 39.2#
84 75.2 65.2 97.8

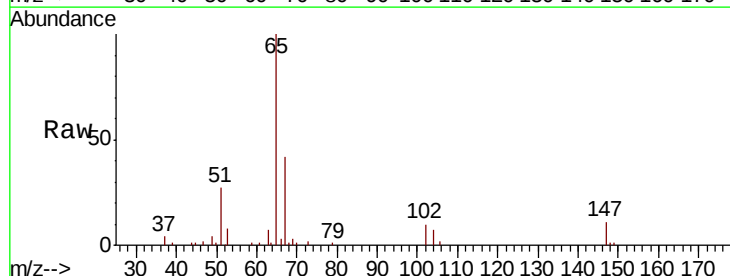


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

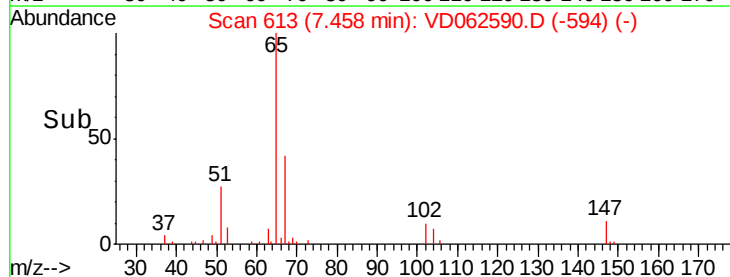
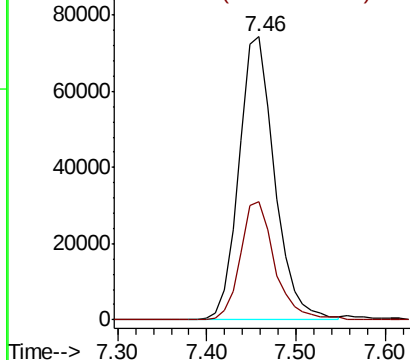


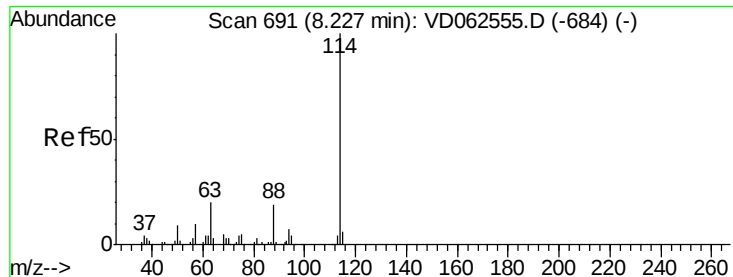
#33
1,2-Dichloroethane-d4
Concen: 52.967 ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.01 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Tgt Ion: 65 Resp: 206100
Ion Ratio Lower Upper
65 100
67 41.9 0.0 83.6



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. -0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

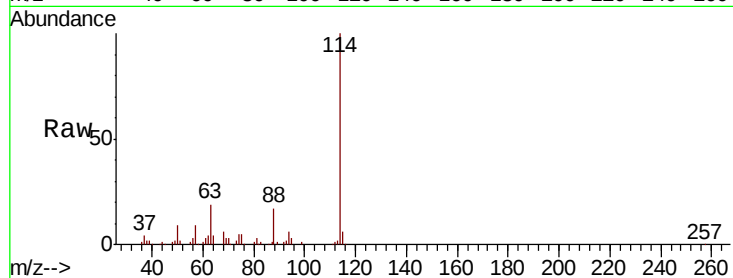
Tot Ion:114 Resp: 467814

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.6

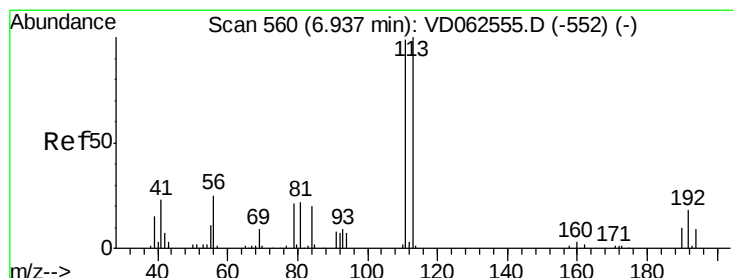
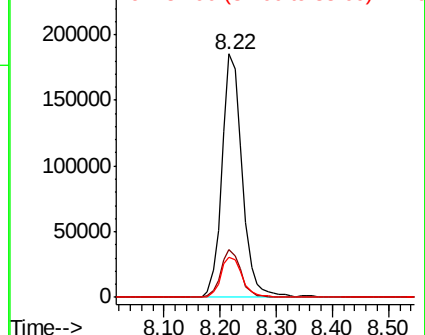
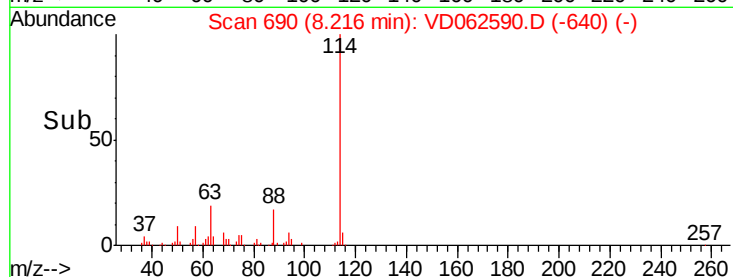
88 16.7 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 45.111 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

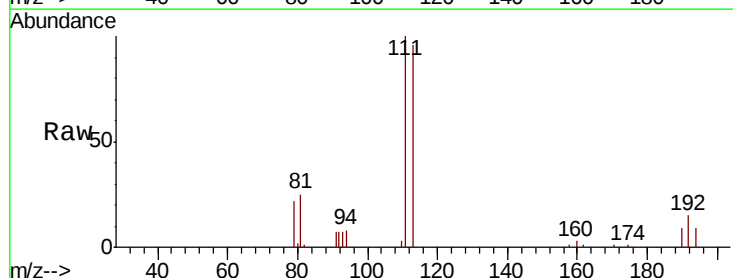
Tgt Ion:113 Resp: 192310

Ion Ratio Lower Upper

113 100

111 103.6 78.8 118.2

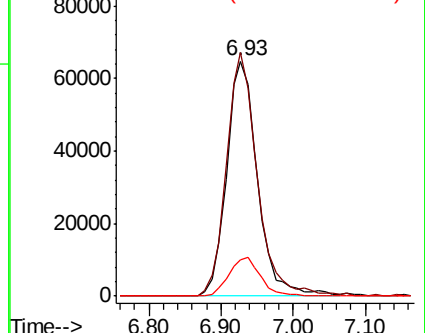
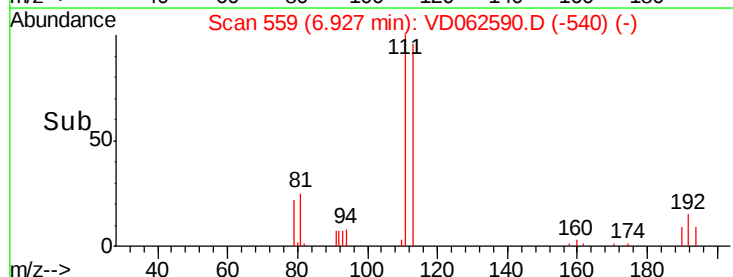
192 15.4 14.6 22.0

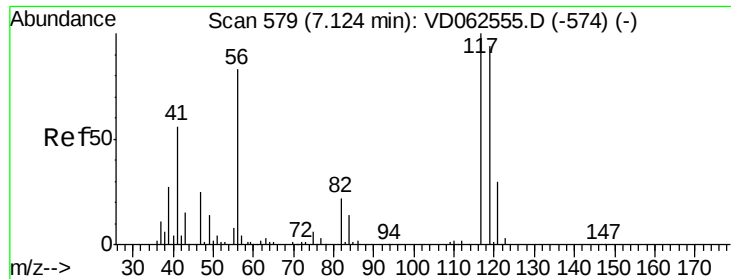


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#38

Carbon Tetrachloride

Concen: 5.639 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

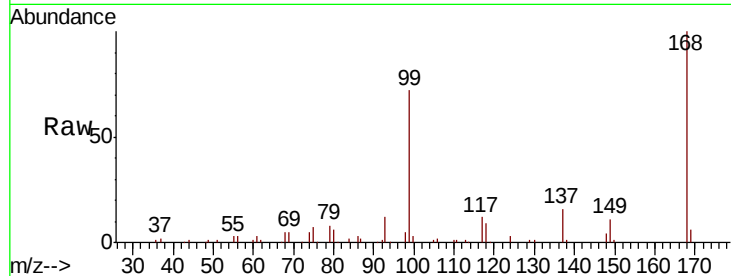
Tot Ion:117 Resp: 39094

Ion Ratio Lower Upper

117 100

119 2.6 71.4 107.2#

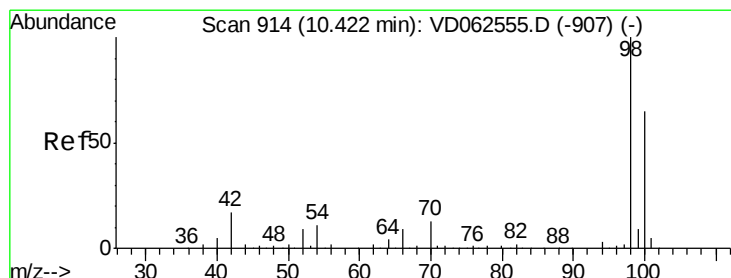
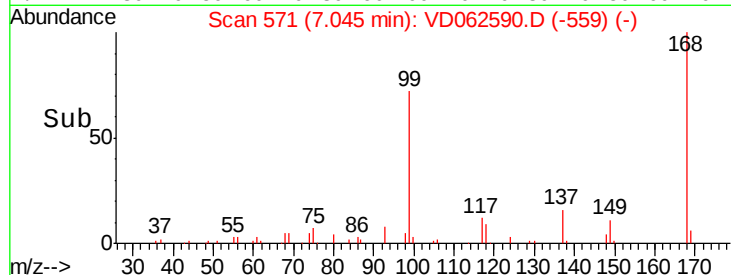
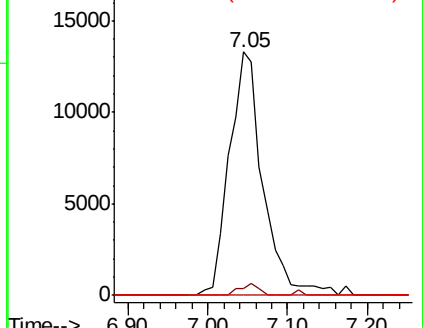
121 0.0 22.5 33.7#



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: 34.367 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD062590.D

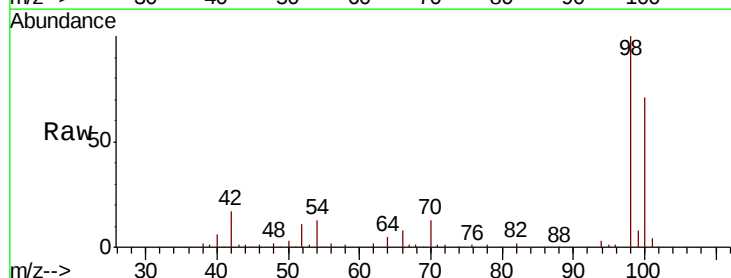
Acq: 3 Jun 2019 17:18

Tgt Ion: 98 Resp: 320998

Ion Ratio Lower Upper

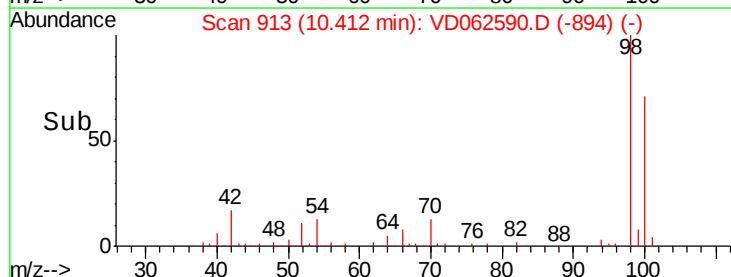
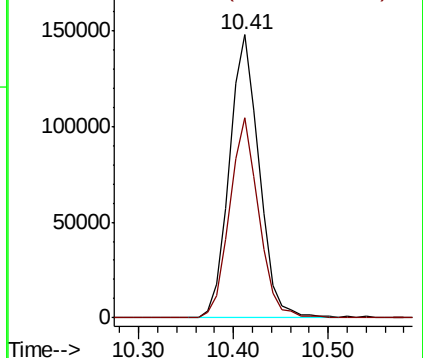
98 100

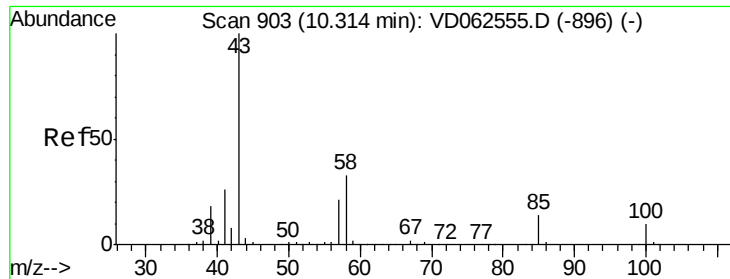
100 70.7 52.3 78.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.679 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

Instrument :

MSVOA_D

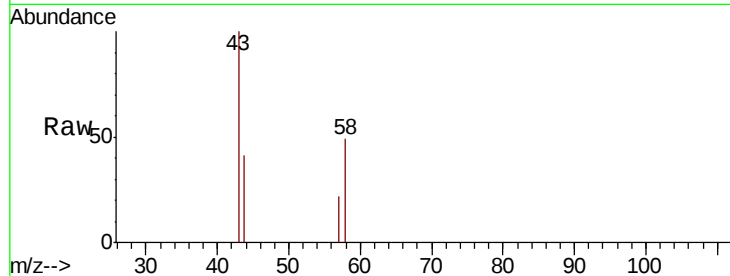
ClientSampleId :

Tot Ion: 43 Resp: 2863

Ion Ratio Lower Upper

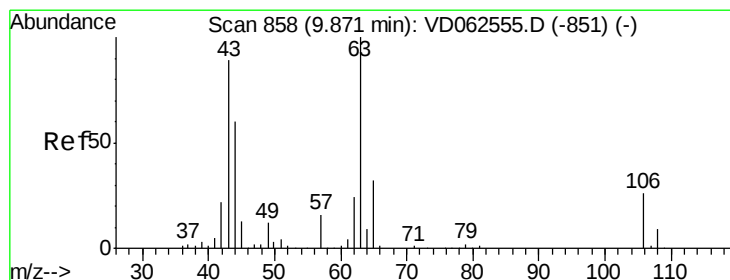
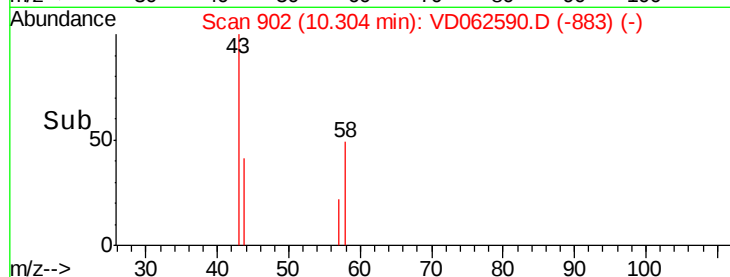
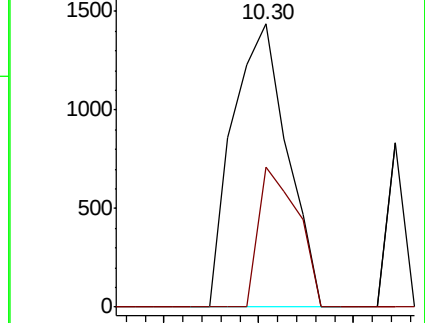
43 100

58 49.4 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 3.365 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.01 min

Lab File: VD062590.D

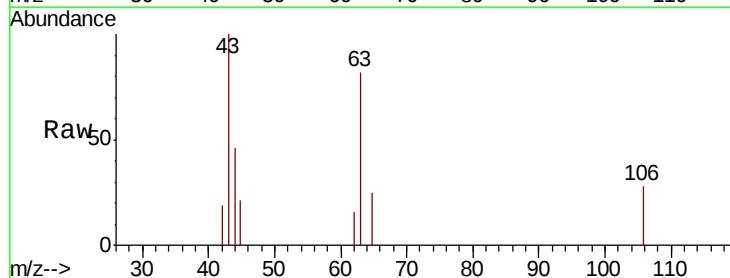
Acq: 3 Jun 2019 17:18

Tgt Ion: 63 Resp: 3765

Ion Ratio Lower Upper

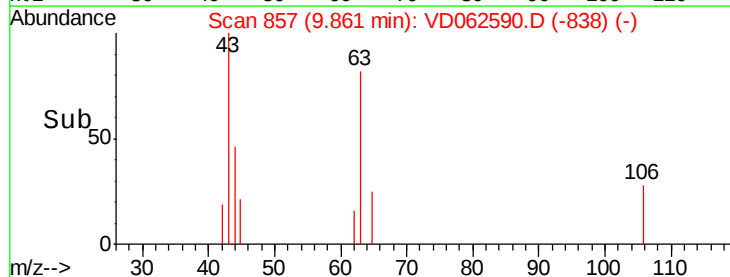
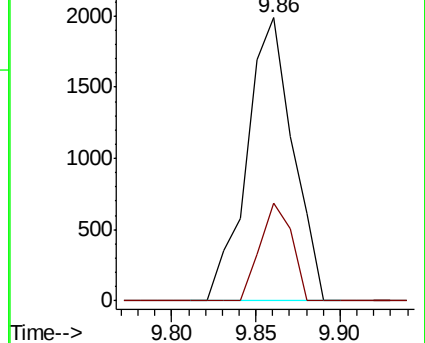
63 100

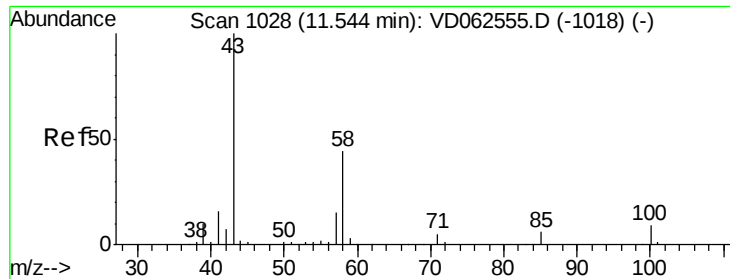
106 34.7 21.0 31.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

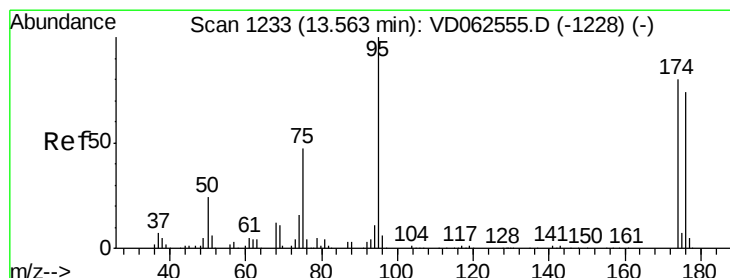
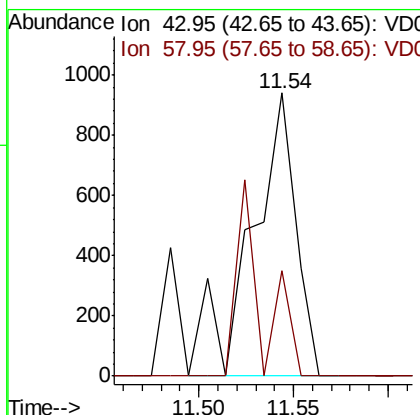
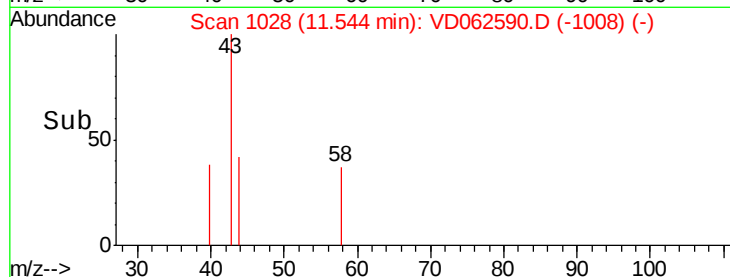
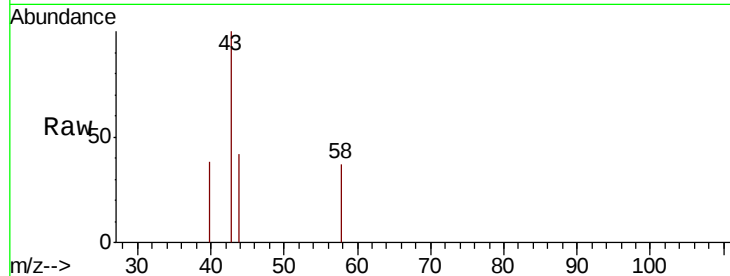




#59
2-Hexanone
Concen: 1.296 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

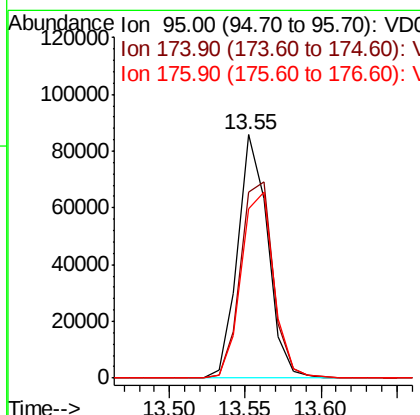
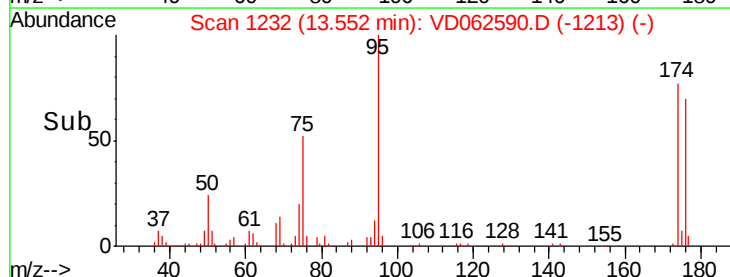
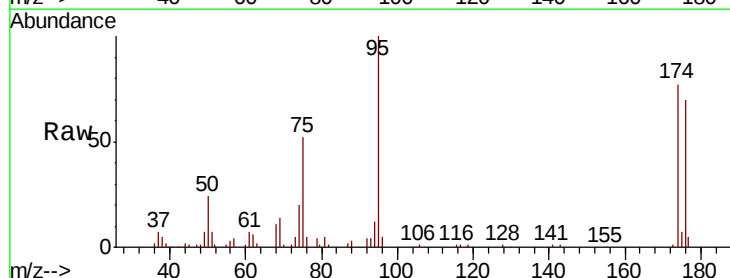
Instrument :
MSVOA_D
ClientSampled :

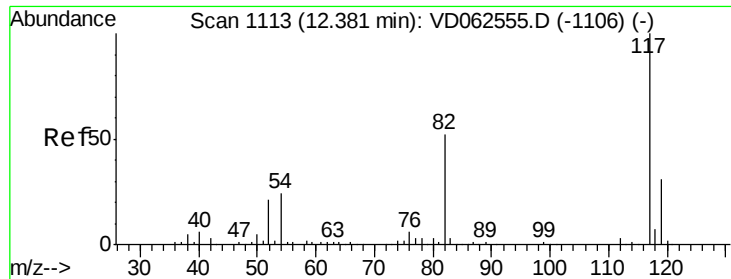
Tot Ion: 43 Resp: 1550
Ion Ratio Lower Upper
43 100
58 37.3 22.0 66.0



#62
4-Bromofluorobenzene
Concen: 28.012 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Tgt Ion: 95 Resp: 117994
Ion Ratio Lower Upper
95 100
174 76.6 0.0 160.2
176 69.8 0.0 148.0

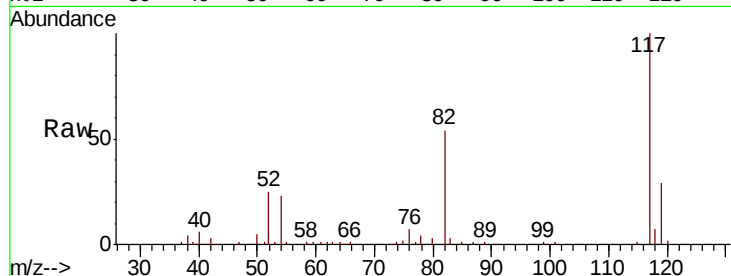




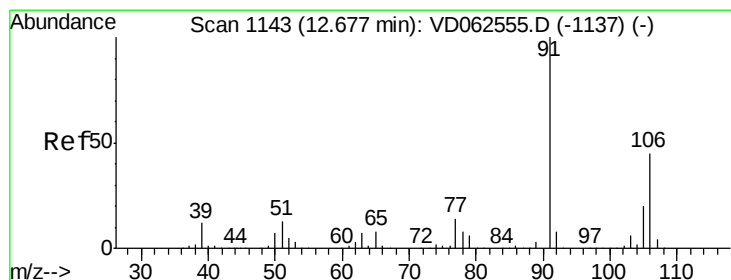
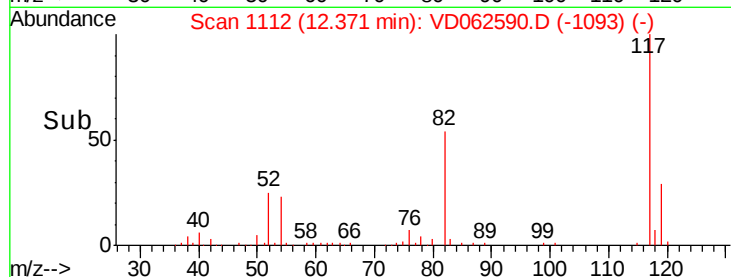
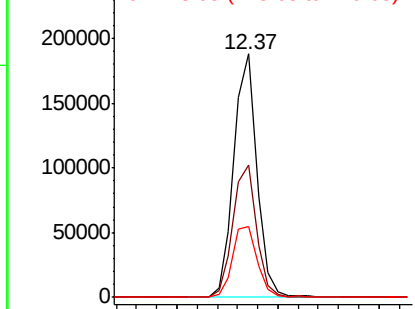
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 299496
Ion Ratio Lower Upper
117 100
82 54.2 41.4 62.2
119 29.0 24.9 37.3

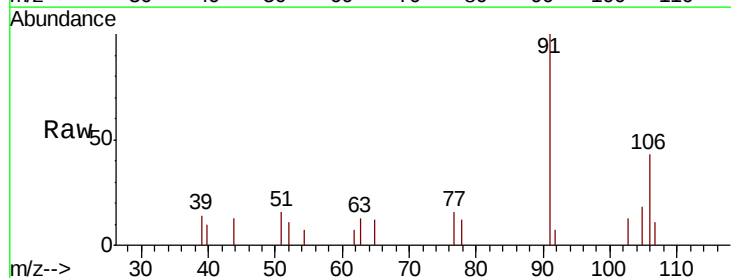


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

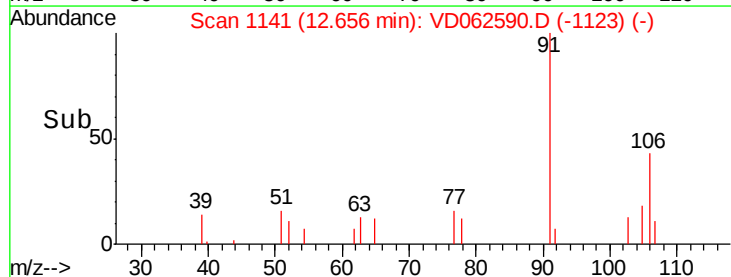
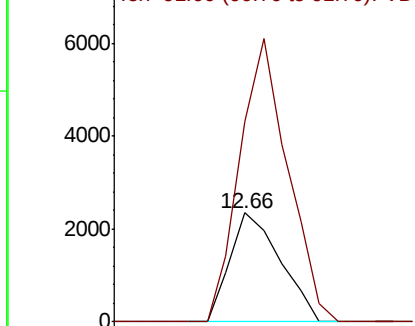


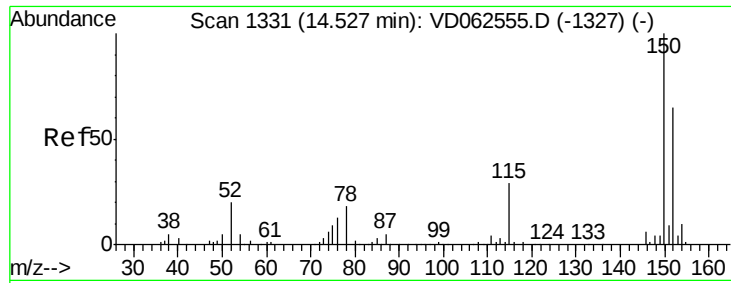
#68
m/p-Xylenes
Concen: 1.164 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VD062590.D
Acq: 3 Jun 2019 17:18

Tgt Ion:106 Resp: 4305
Ion Ratio Lower Upper
106 100
91 184.3 178.9 268.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

Instrument :

MSVOA_D

ClientSampleId :

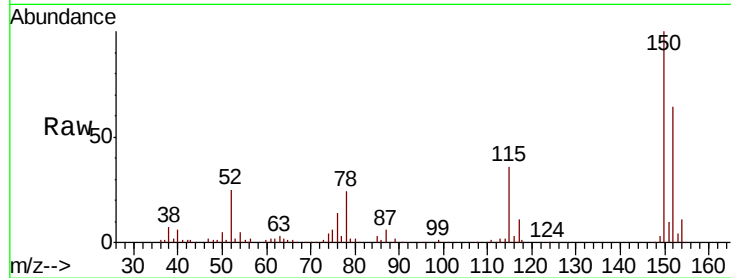
Tot Ion:152 Resp: 106035

Ion Ratio Lower Upper

152 100

115 56.7 28.4 85.3

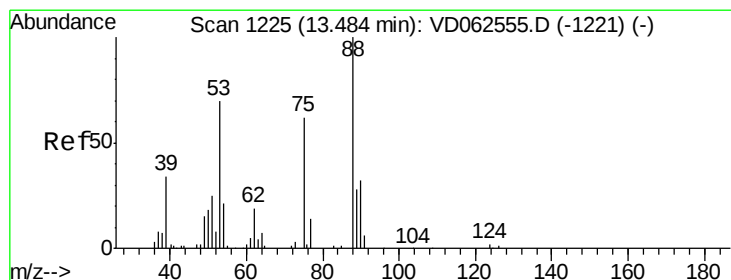
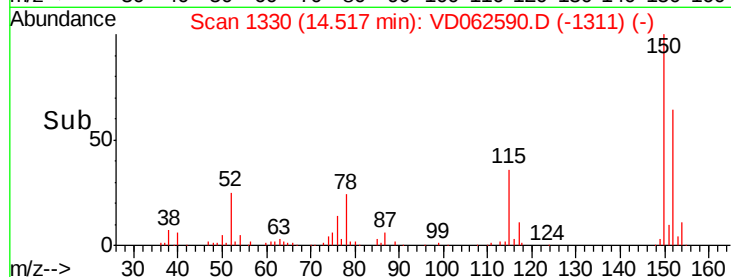
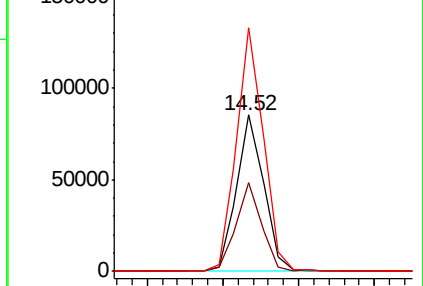
150 155.7 0.0 310.4



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: 162.323 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062590.D

Acq: 3 Jun 2019 17:18

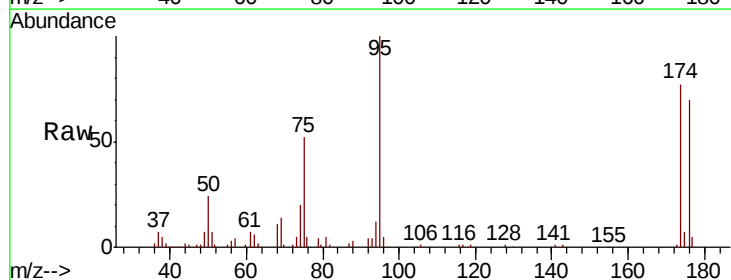
Tgt Ion: 75 Resp: 59169

Ion Ratio Lower Upper

75 100

53 0.0 91.0 136.4#

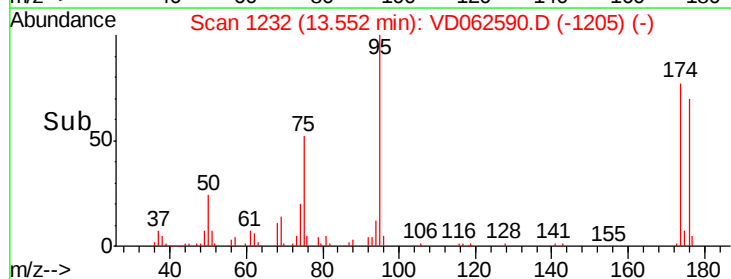
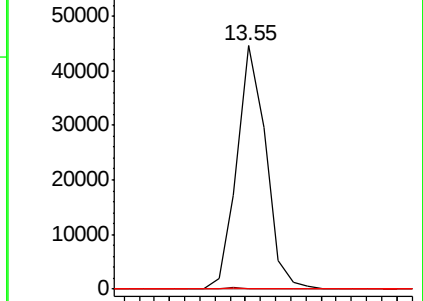
89 0.0 36.9 55.3#

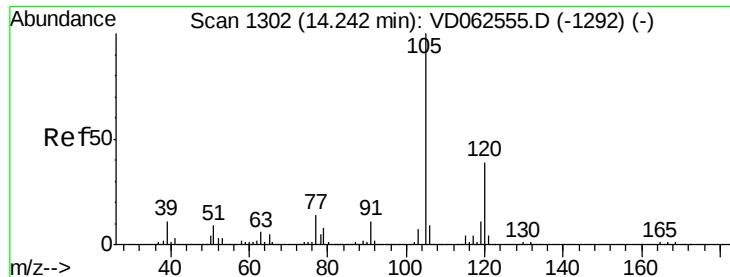


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

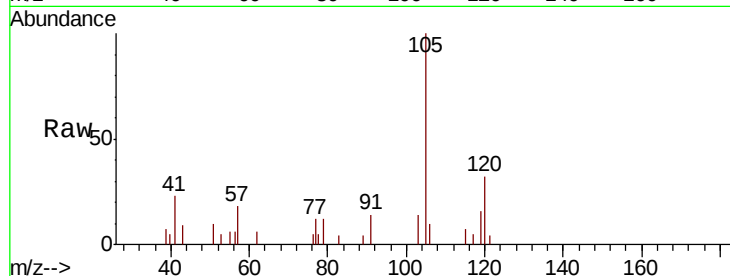




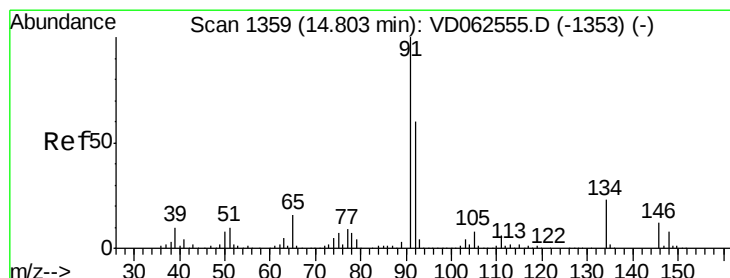
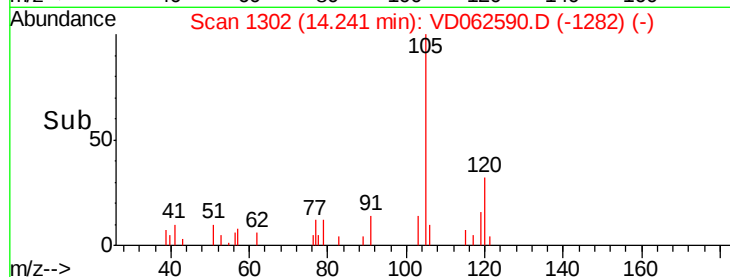
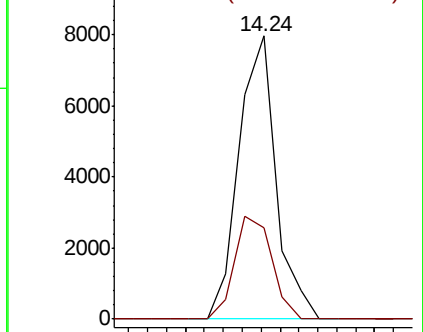
#84
 1,2,4-Trimethylbenzene
 Concen: 1.778 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.00 min
 Lab File: VD062590.D
 Acq: 3 Jun 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 10820
 Ion Ratio Lower Upper
 105 100
 120 32.4 19.6 58.8

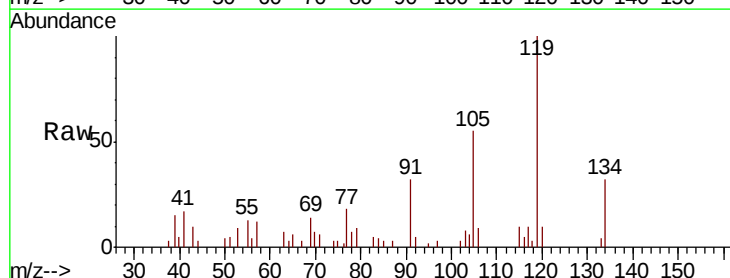


Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

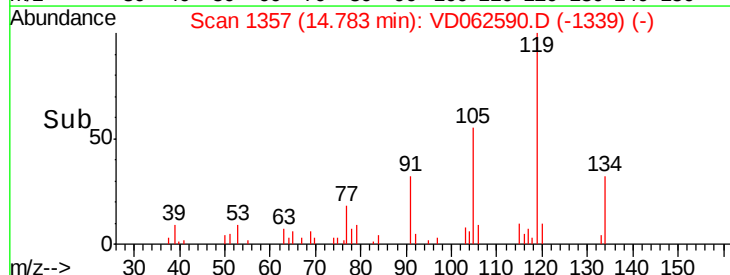
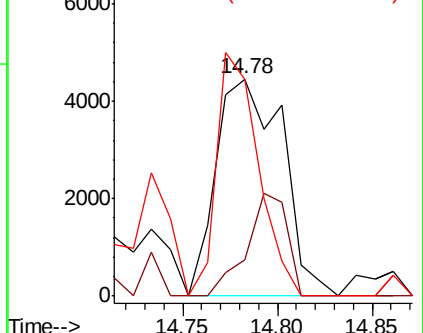


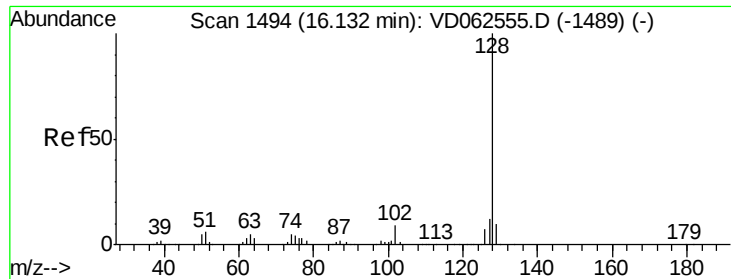
#89
 n-Butylbenzene
 Concen: 1.839 ug/l
 RT: 14.78 min Scan# 1357
 Delta R.T. -0.02 min
 Lab File: VD062590.D
 Acq: 3 Jun 2019 17:18

Tgt Ion: 91 Resp: 10830
 Ion Ratio Lower Upper
 91 100
 92 16.5 29.8 89.4#
 134 99.9 11.3 33.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
 Ion 92.00 (91.70 to 92.70): VDC
 Ion 134.10 (133.80 to 134.80): V





#95
 Naphthalene
 Concen: 1.880 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD062590.D
 Acq: 3 Jun 2019 17:18

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 5722
 Ion Ratio Lower Upper
 128 100
 127 6.8 9.7 14.5#
 129 14.3 8.2 12.2#

