

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062320\
 Data File : VD065863.D
 Acq On : 23 Jun 2020 16:36
 Operator : VA/SY
 Sample : L3082-16
 Misc : 5.14G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-17

Quant Time: Jun 24 04:44:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060520S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 05 13:07:30 2020
 Response via : Initial Calibration

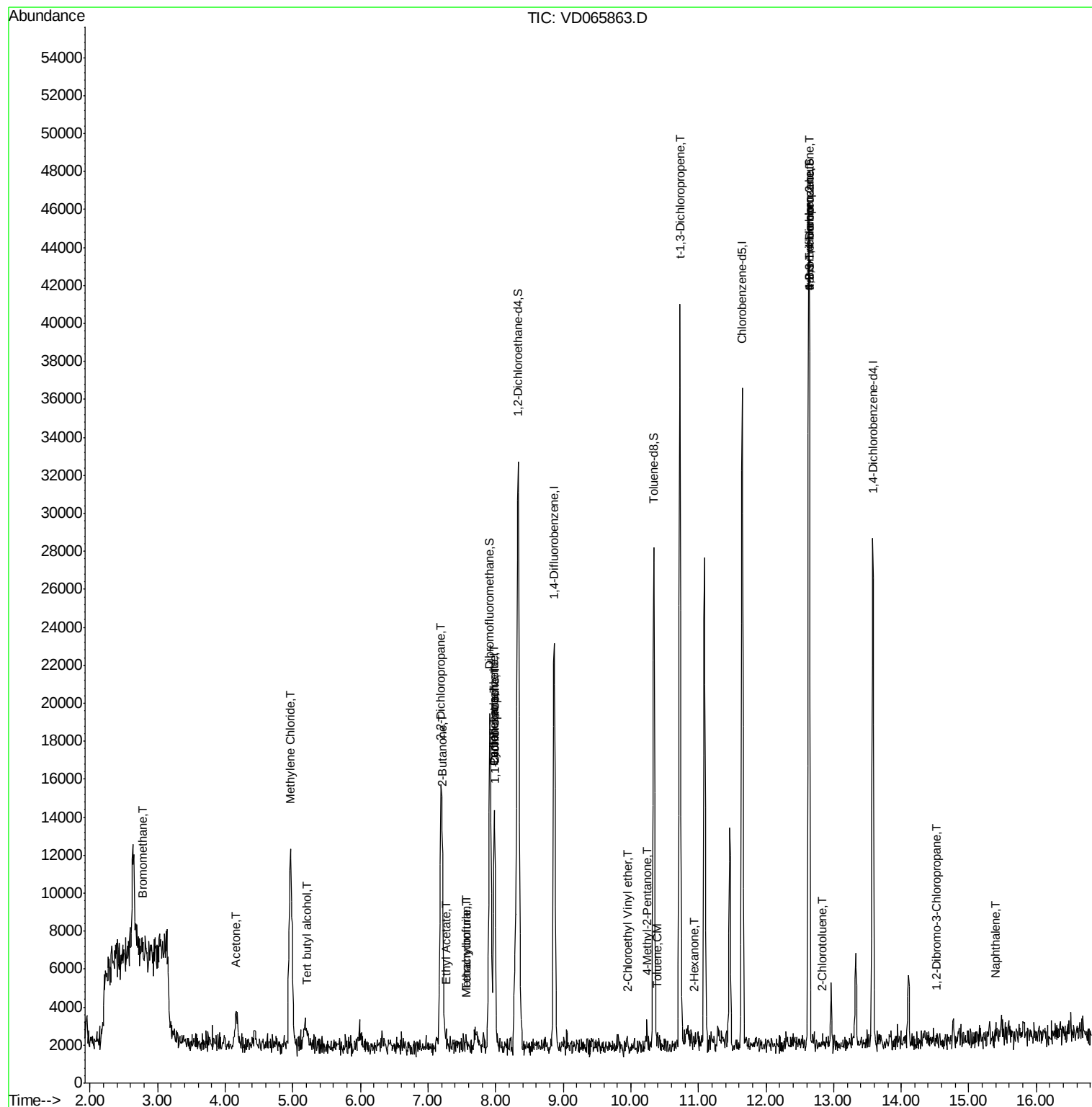
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	9391	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	16893	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	18517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	7165	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	26672	287.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	574.86%	
35) Dibromofluoromethane	7.92	113	12295	115.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	230.44%	
50) Toluene-d8	10.34	98	17896	44.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.96%	
62) 4-Bromofluorobenzene	12.64	95	7479	55.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.84%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.20	50	72	Below Cal	#	43
5) Bromomethane	2.79	94	149	1.538	ug/l #	5
11) Tert butyl alcohol	5.21	59	477	65.439	ug/l #	74
16) Acetone	4.17	43	3590	205.093	ug/l #	88
18) Methyl Acetate	4.54	43	55	Below Cal	#	52
20) Methylene Chloride	4.97	84	7491	83.570	ug/l #	85
25) 2-Butanone	7.21	43	611	25.275	ug/l #	52
26) 2,2-Dichloropropane	7.20	77	1014	6.588	ug/l #	54
29) Tetrahydrofuran	7.56	42	55	3.600	ug/l #	34
31) Cyclohexane	7.97	56	302	1.815	ug/l #	73
36) 1,1-Dichloropropene	7.99	75	1047	6.470	ug/l #	41
37) Ethyl Acetate	7.26	43	120	1.883	ug/l #	70
38) Carbon Tetrachloride	7.98	117	861	5.056	ug/l #	12
41) Methacrylonitrile	7.58	41	61	1.607	ug/l #	25
51) 4-Methyl-2-Pentanone	10.24	43	536	8.630	ug/l #	37
52) Toluene	10.40	92	295	1.026	ug/l #	72
53) t-1,3-Dichloropropene	10.73	75	568	3.883	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.94	63	56	1.271	ug/l #	46
59) 2-Hexanone	10.93	43	78	1.863	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	4213	75.606	ug/l #	100
79) 2-Chlorotoluene	12.83	91	328	1.034	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.63	75	4213	163.356	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.52	75	53	3.925	ug/l #	1
95) Naphthalene	15.40	128	446	2.008	ug/l #	69

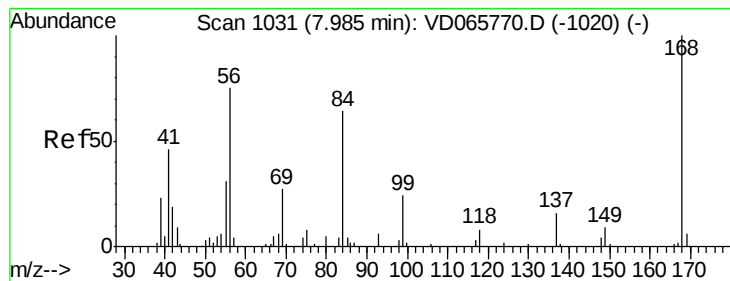
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

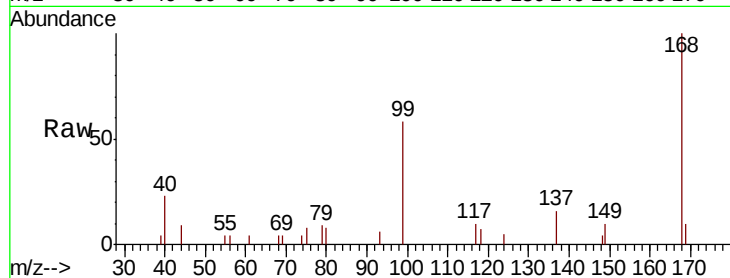
SB-17

Tot Ion:168 Resp: 9391

Ion Ratio Lower Upper

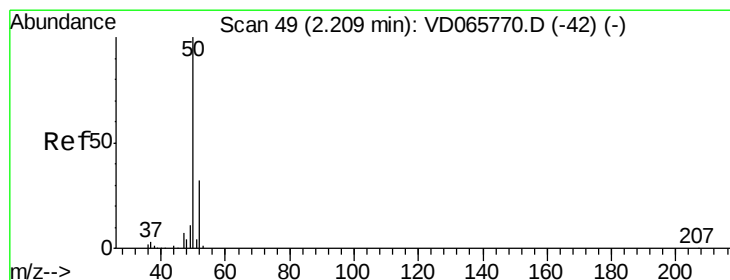
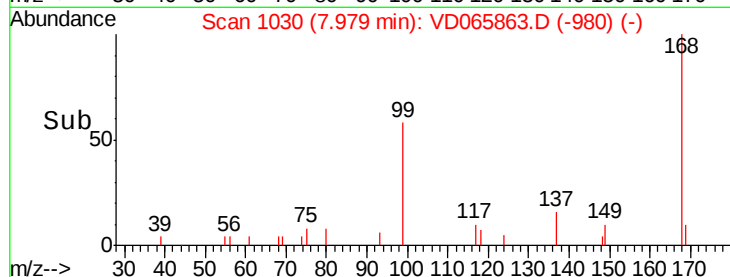
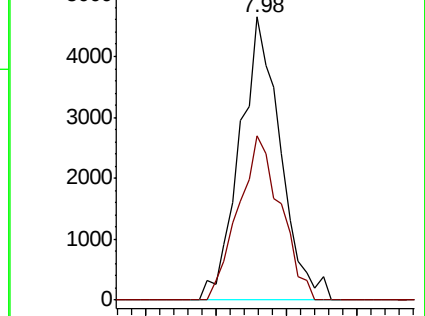
168 100

99 58.0 45.3 67.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD065863.D

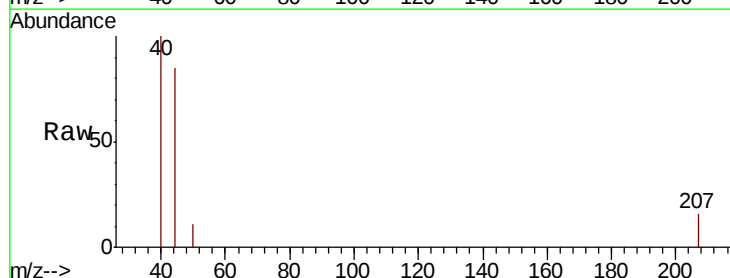
Acq: 23 Jun 2020 16:36

Tgt Ion: 50 Resp: 72

Ion Ratio Lower Upper

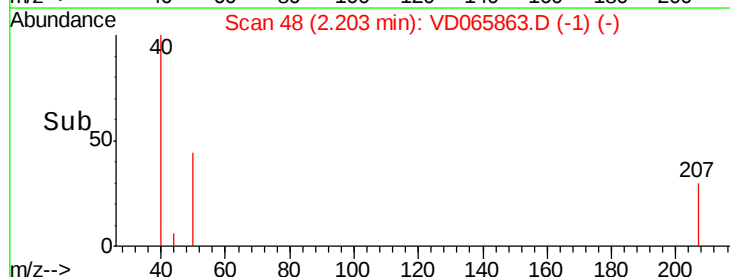
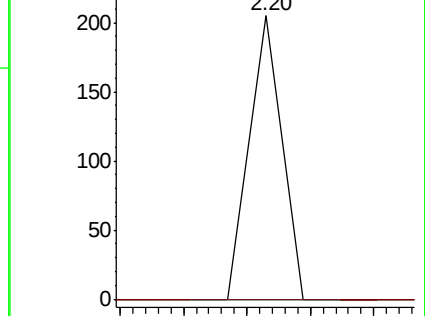
50 100

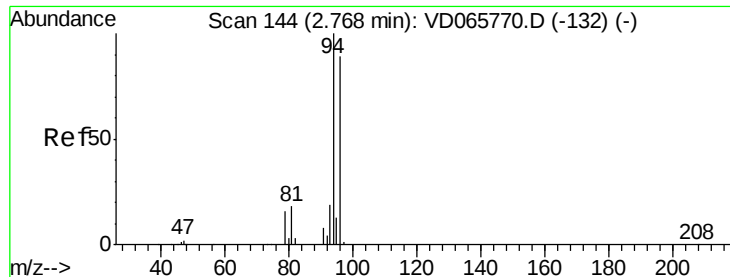
52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 1.538 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

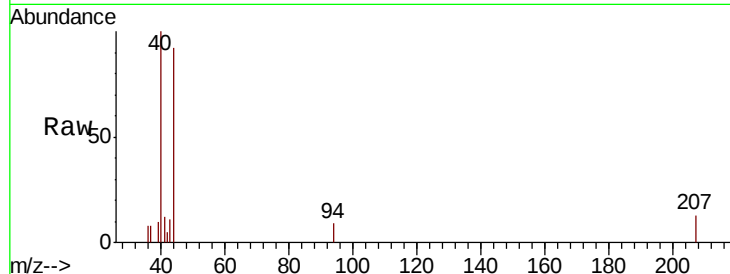
SB-17

Tot Ion: 94 Resp: 149

Ion Ratio Lower Upper

94 100

96 0.0 71.4 107.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

250

200

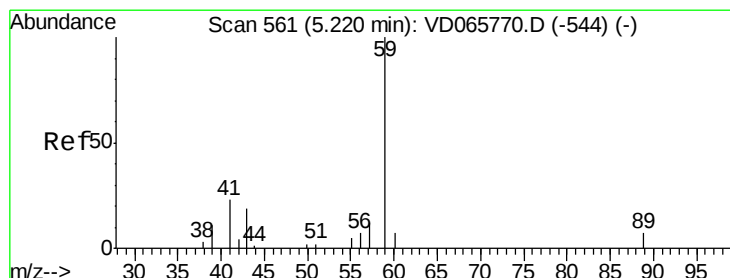
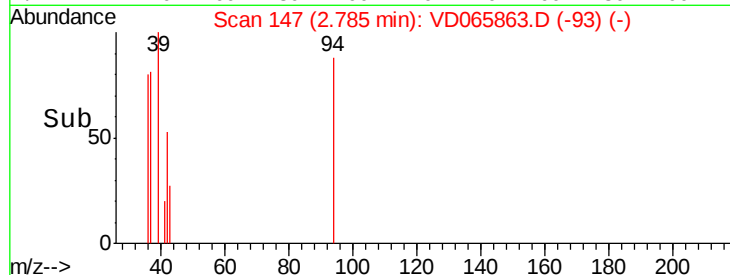
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 65.439 ug/l

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD065863.D

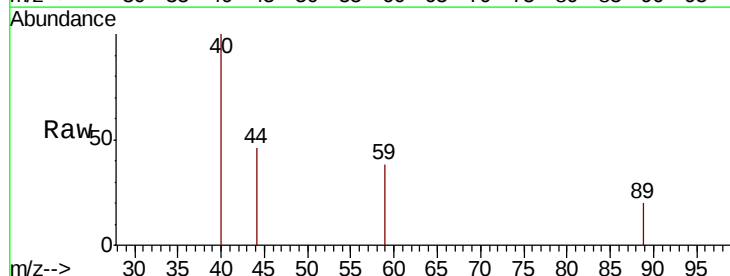
Acq: 23 Jun 2020 16:36

Tgt Ion: 59 Resp: 477

Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.21

500

400

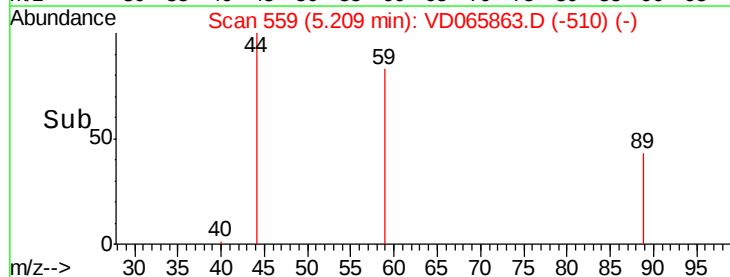
300

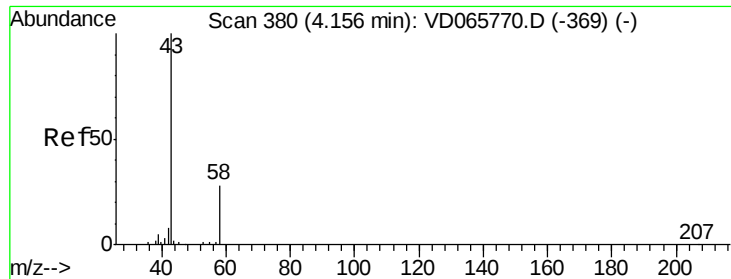
200

100

0

Time-->





#16

Acetone

Concen: 205.093 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

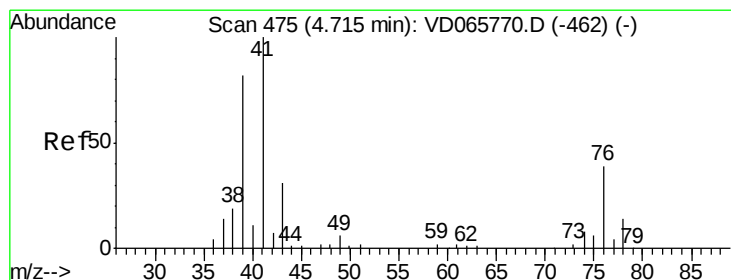
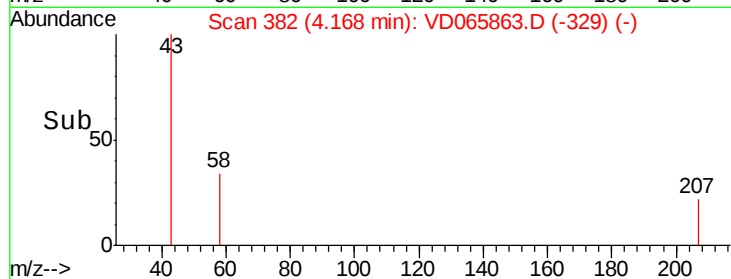
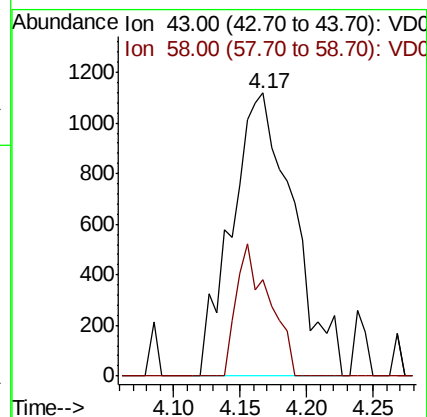
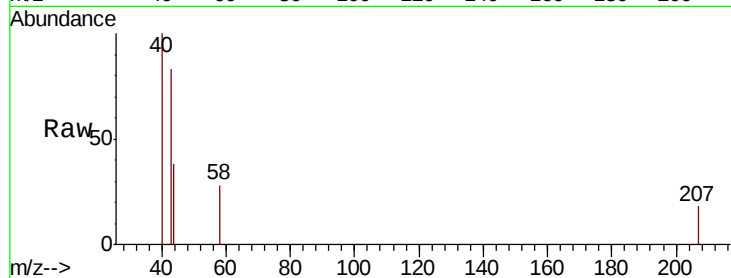
SB-17

Tot Ion: 43 Resp: 3590

Ion Ratio Lower Upper

43 100

58 34.2 22.3 33.5#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.54 min Scan# 446

Delta R.T. -0.17 min

Lab File: VD065863.D

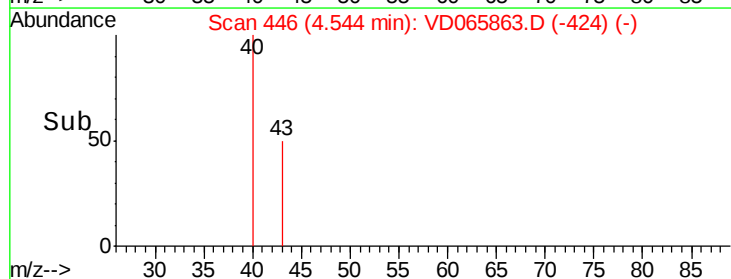
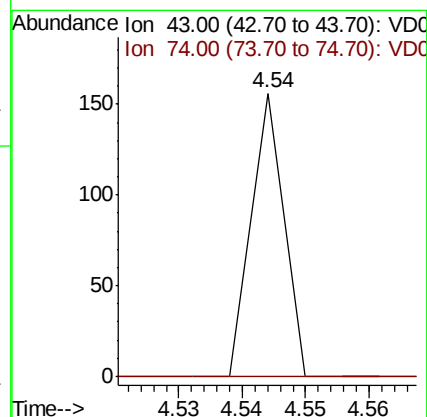
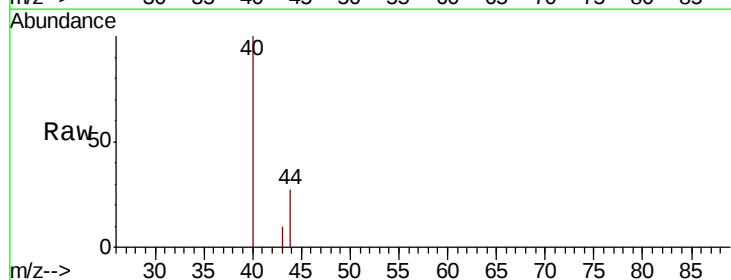
Acq: 23 Jun 2020 16:36

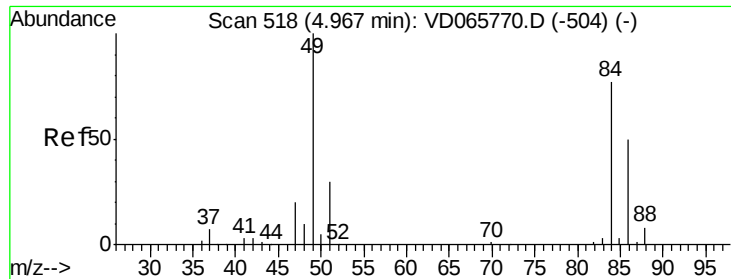
Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

74 0.0 18.7 28.1#

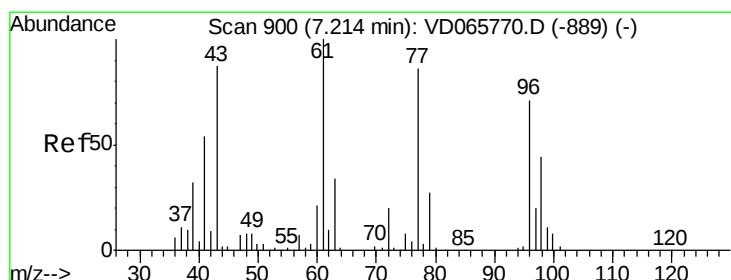
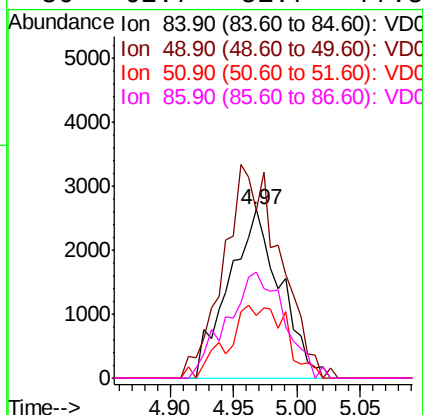
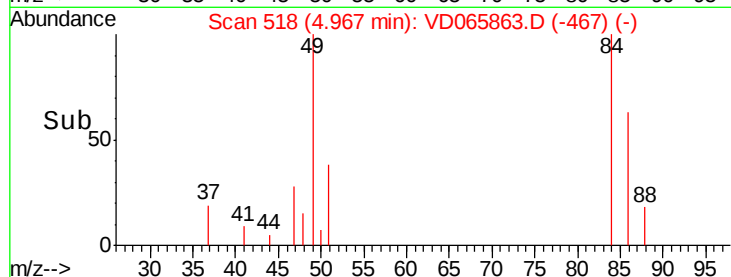
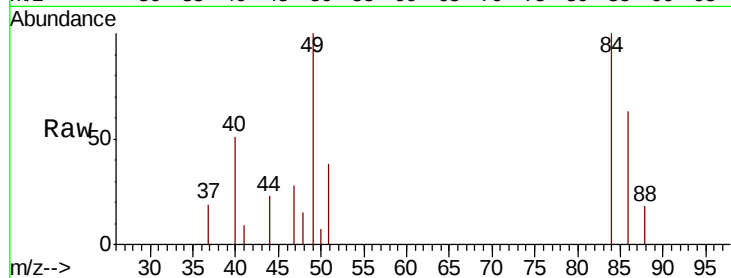




#20
Methvlene Chloride
Concen: 83.570 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

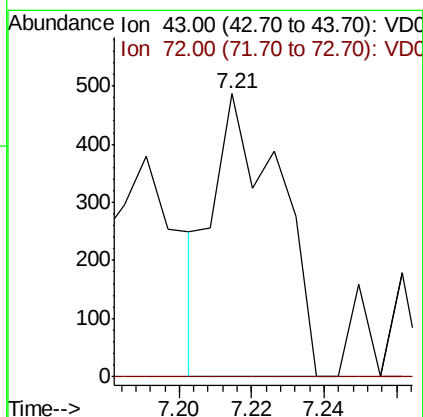
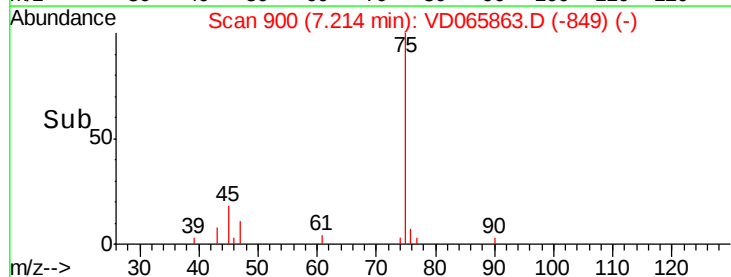
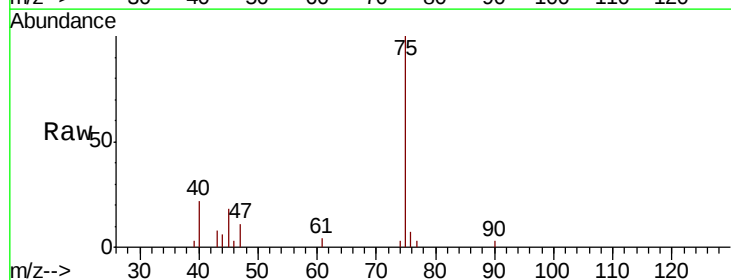
Instrument :
MSVOA_D
ClientSampleId :
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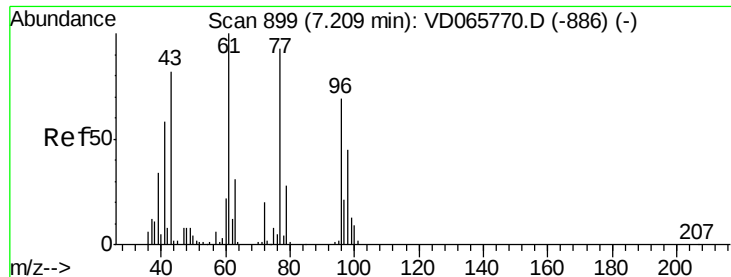
Tot Ion: 84 Resp: 7491
Ion Ratio Lower Upper
84 100
49 99.6 103.4 155.0#
51 37.5 31.4 47.2
86 62.7 51.7 77.5



#25
2-Butanone
Concen: 25.275 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Tgt Ion: 43 Resp: 611
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#26

2,2-Dichloropropane

Concen: 6.588 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

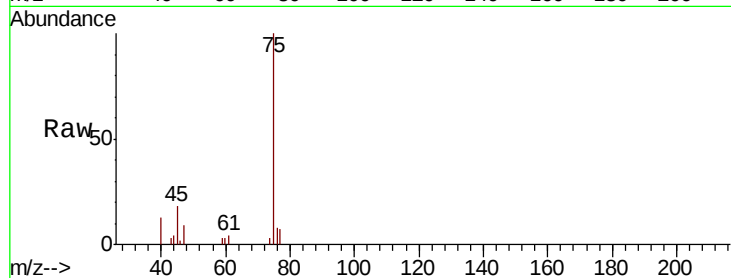
SB-17

Tot Ion: 77 Resp: 1014

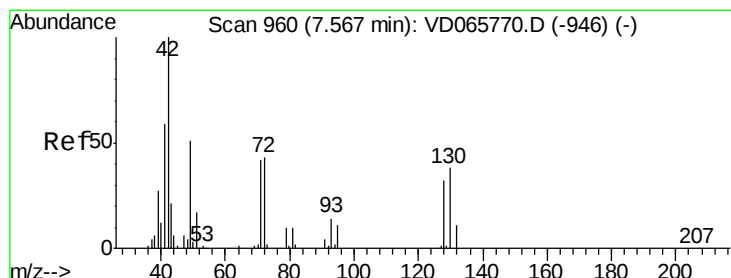
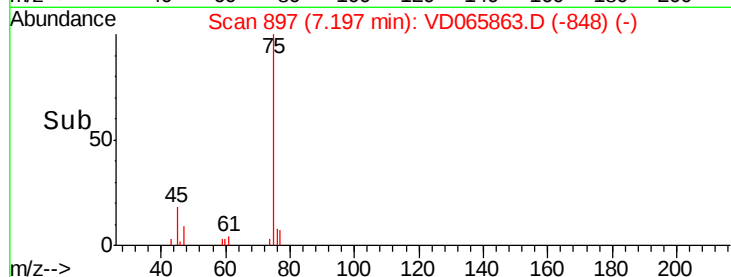
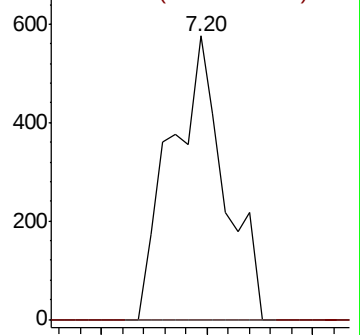
Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.7#



Abundance Ion 76.90 (76.60 to 77.60): VDC



#29

Tetrahydrofuran

Concen: 3.600 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

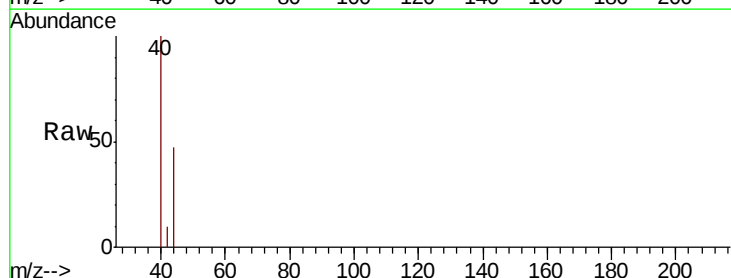
Tgt Ion: 42 Resp: 55

Ion Ratio Lower Upper

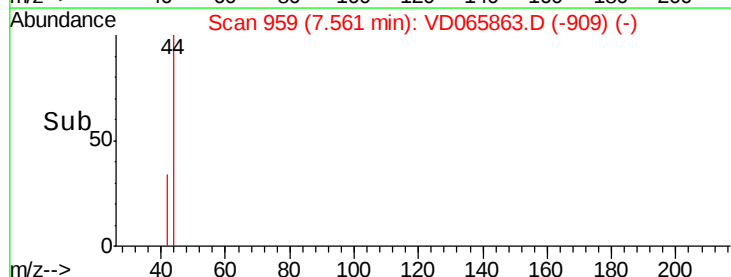
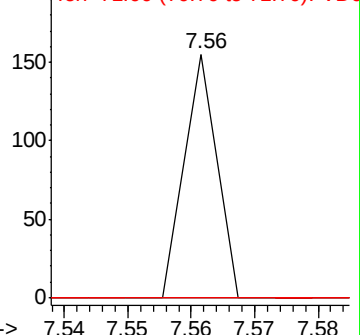
42 100

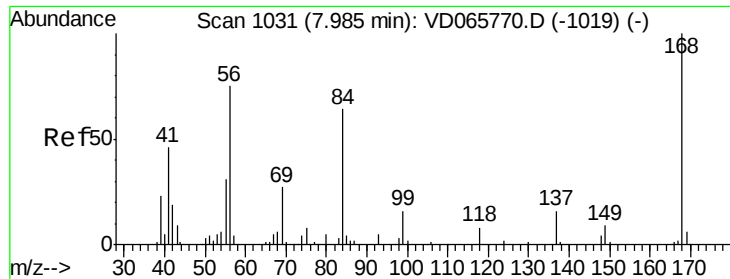
72 0.0 34.9 52.3#

71 0.0 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VDC

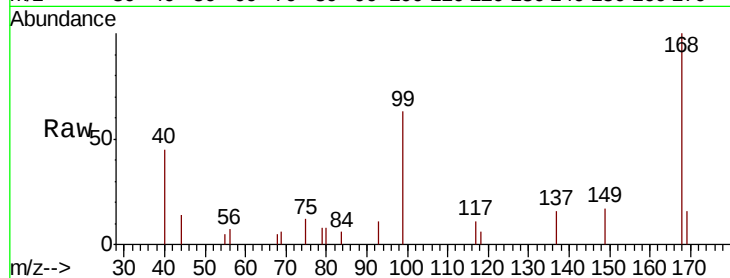




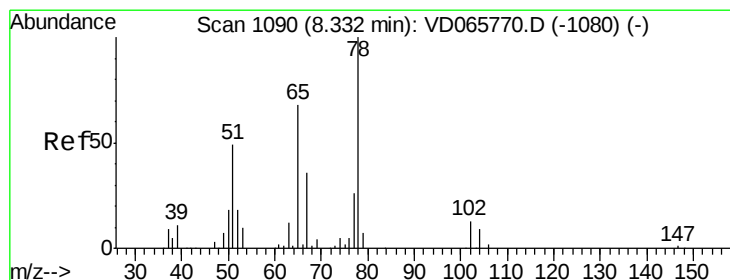
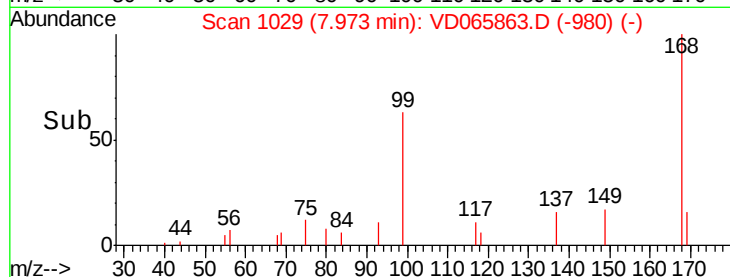
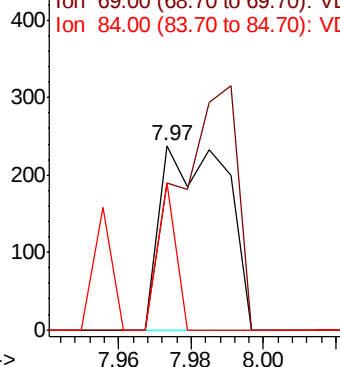
#31
Cyclohexane
Concen: 1.815 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Instrument :
MSVOA_D
ClientSampleID :
SB-17

Tot Ion: 56 Resp: 302
Ion Ratio Lower Upper
56 100
69 79.8 28.5 42.7#
84 79.4 68.4 102.6

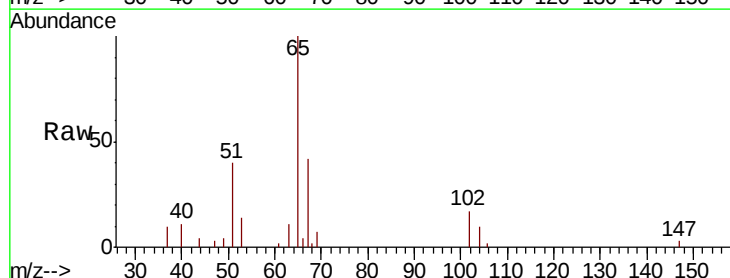


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

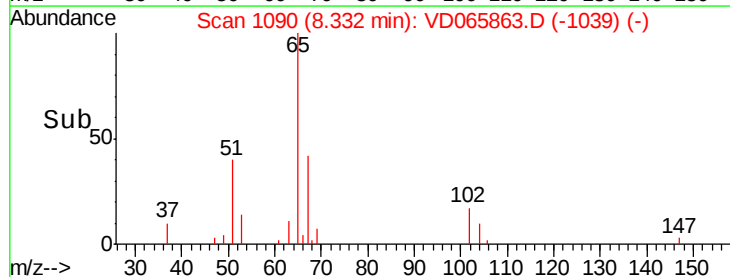
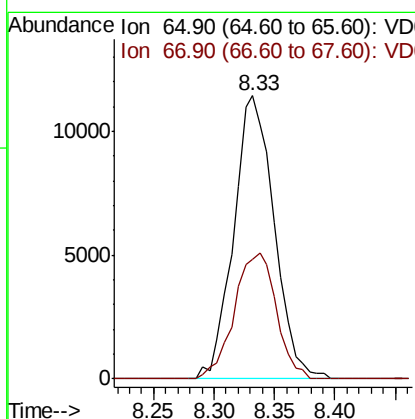


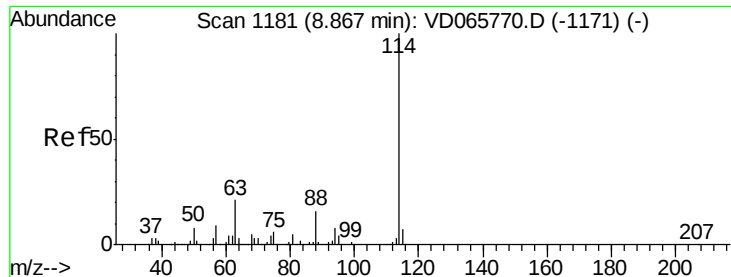
#33
1,2-Dichloroethane-d4
Concen: 287.427 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Tgt Ion: 65 Resp: 26672
Ion Ratio Lower Upper
65 100
67 46.1 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

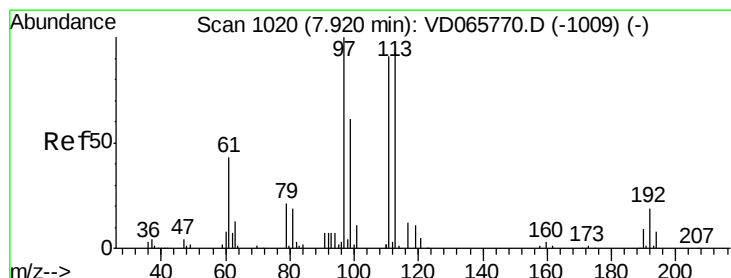
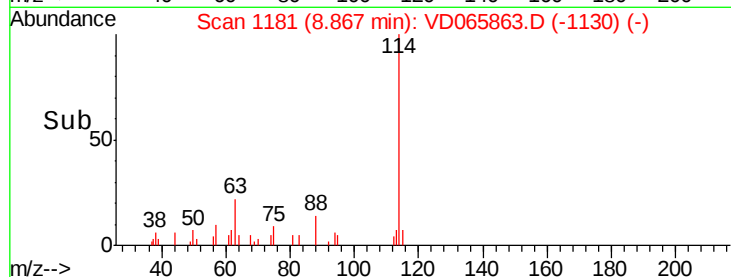
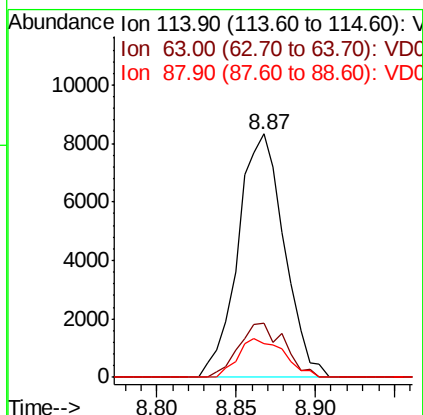
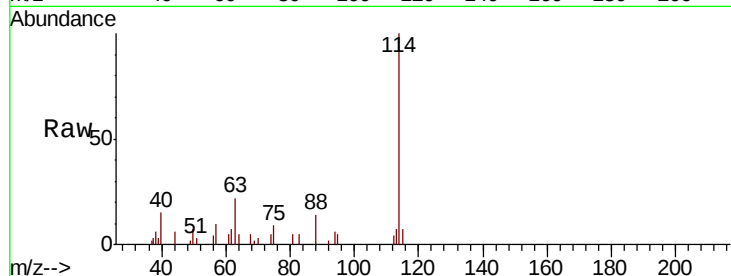




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

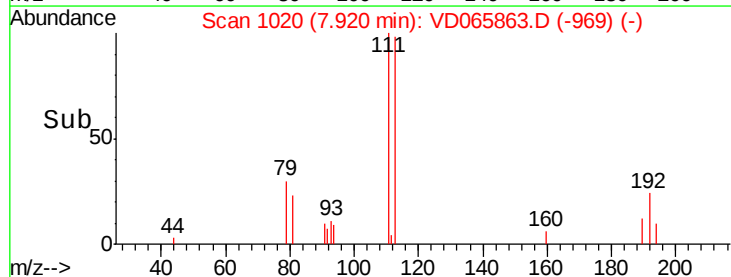
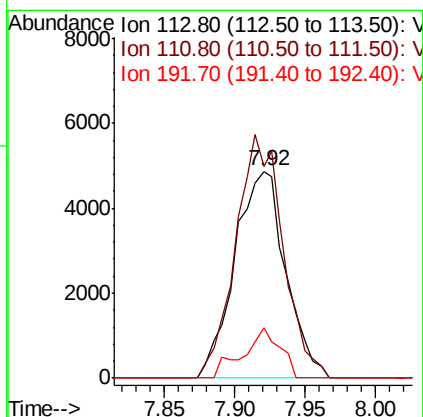
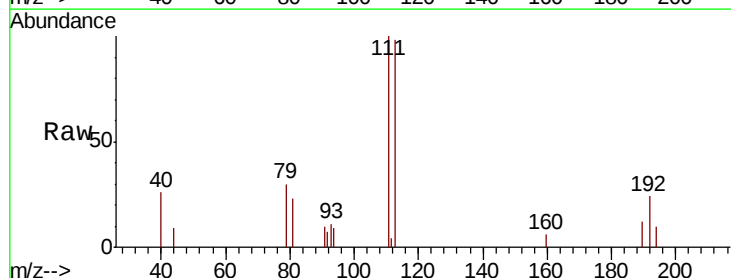
Instrument :
MSVOA_D
ClientSampled :
SB-17

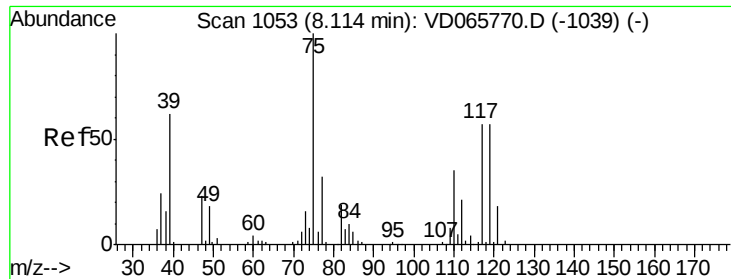
Tot Ion:114 Resp: 16893
Ion Ratio Lower Upper
114 100
63 22.1 0.0 41.8
88 14.1 0.0 32.0



#35
Dibromofluoromethane
Concen: 115.223 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Tgt Ion:113 Resp: 12295
Ion Ratio Lower Upper
113 100
111 109.4 83.4 125.0
192 17.7 15.7 23.5

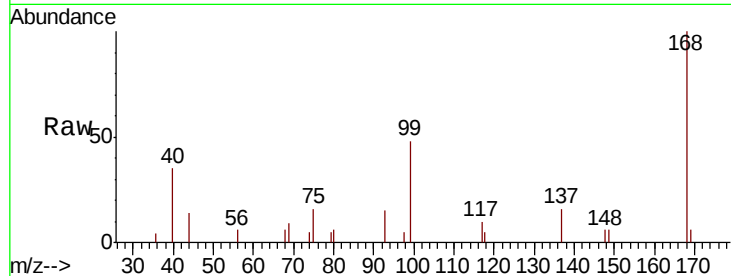




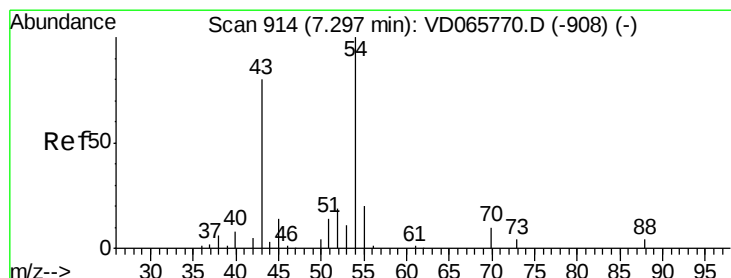
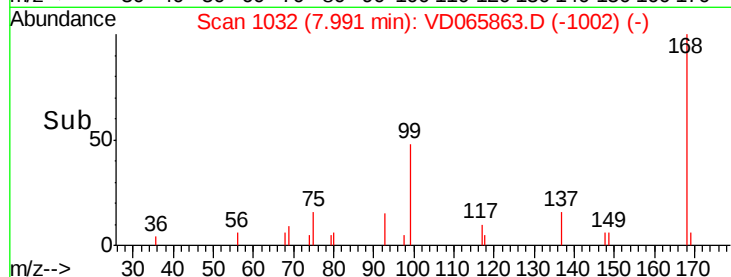
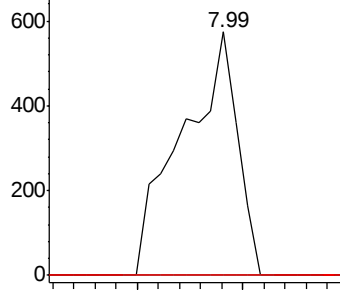
#36
 1,1-Dichloropropene
 Concen: 6.470 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.12 min
 Lab File: VD065863.D
 Acq: 23 Jun 2020 16:36

Instrument :
 MSVOA_D
 ClientSampleID :
 SB-17

Tot Ion: 75 Resp: 1047
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 25.1 37.7#

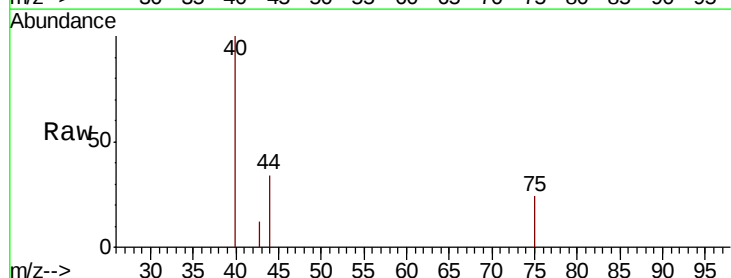


Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.90 (76.60 to 77.60): VDC

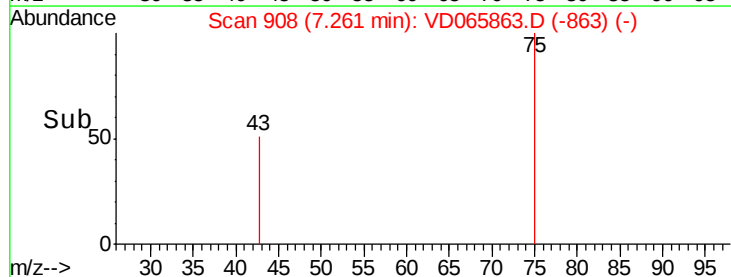
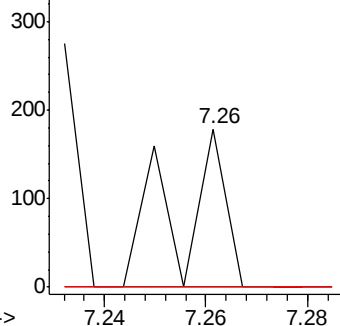


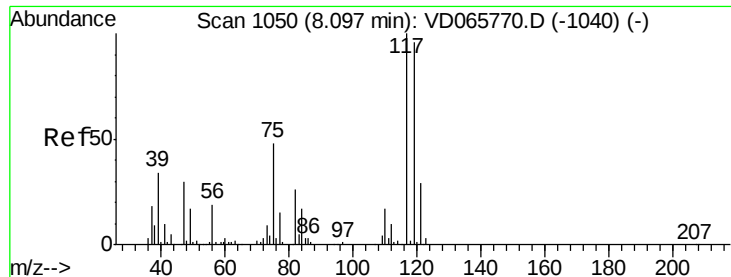
#37
 Ethyl Acetate
 Concen: 1.883 ug/l
 RT: 7.26 min Scan# 908
 Delta R.T. -0.04 min
 Lab File: VD065863.D
 Acq: 23 Jun 2020 16:36

Tgt Ion: 43 Resp: 120
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.5 11.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.056 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

SB-17

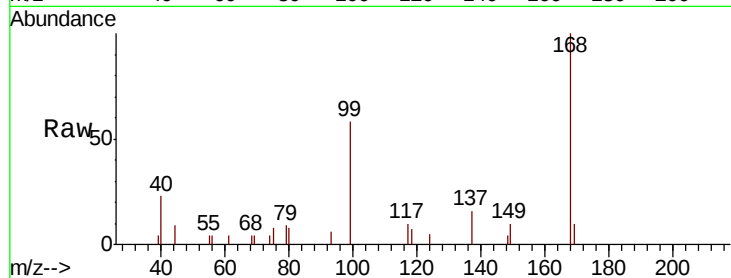
Tot Ion:117 Resp: 861

Ion Ratio Lower Upper

117 100

119 0.0 76.8 115.2#

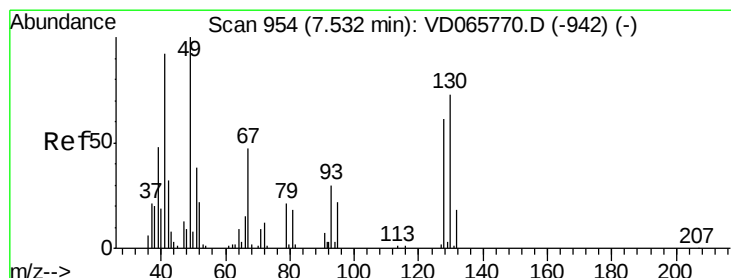
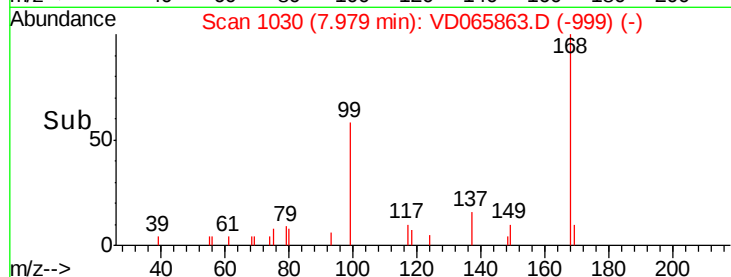
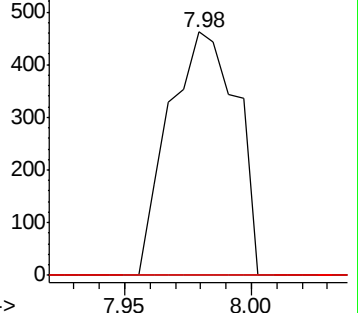
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.607 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.05 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Tgt Ion: 41 Resp: 61

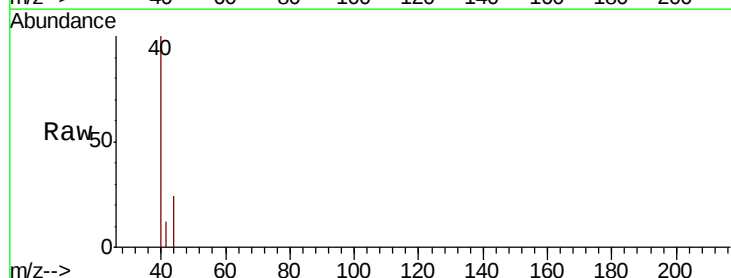
Ion Ratio Lower Upper

41 100

39 101.6 38.3 57.5#

67 0.0 49.8 74.6#

52 0.0 21.7 32.5#

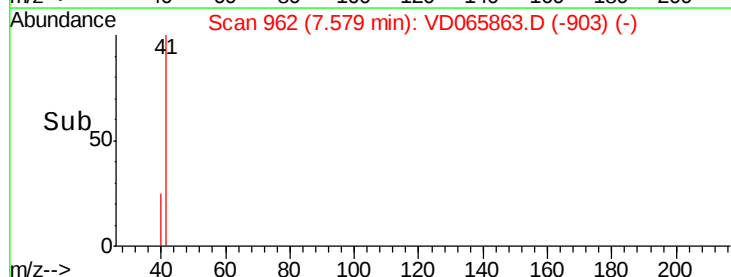
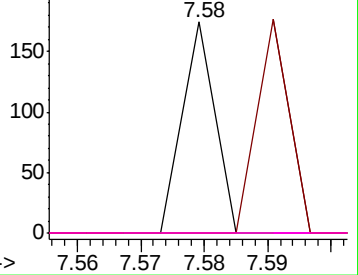


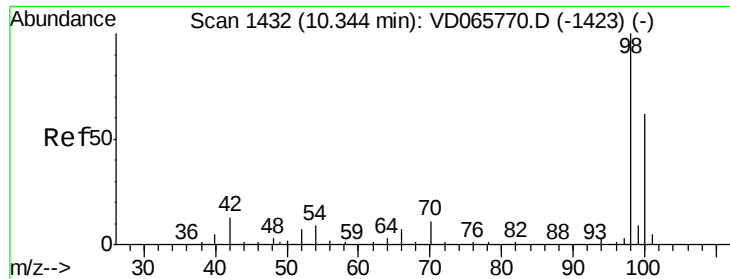
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: 44.977 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampled :

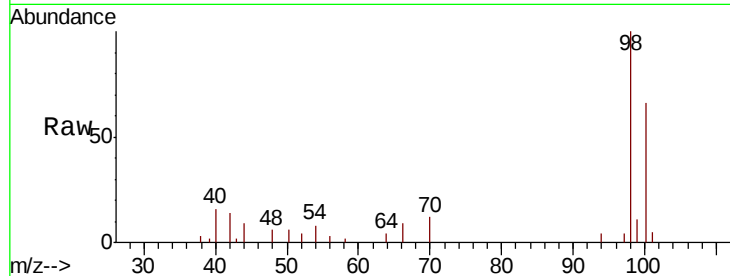
SB-17

Tot Ion: 98 Resp: 17896

Ion Ratio Lower Upper

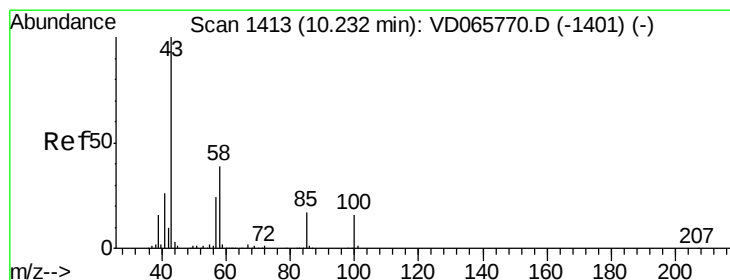
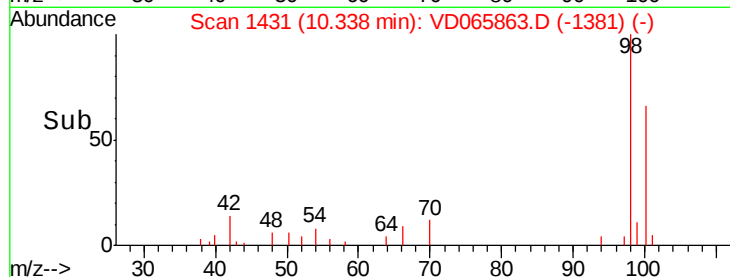
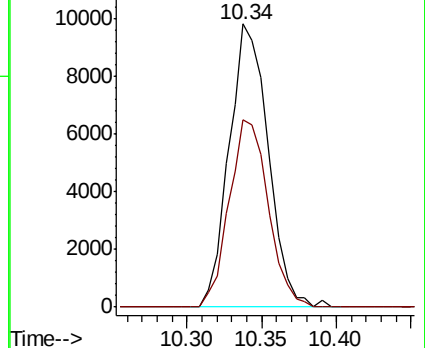
98 100

100 66.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 8.630 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD065863.D

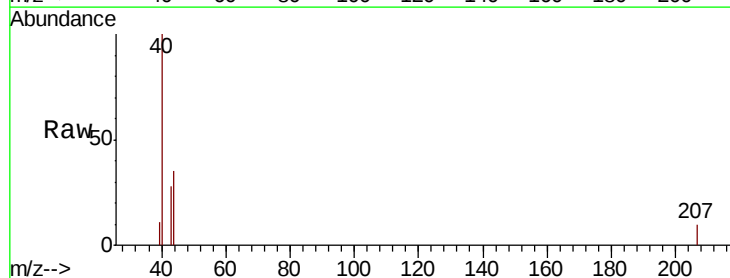
Acq: 23 Jun 2020 16:36

Tgt Ion: 43 Resp: 536

Ion Ratio Lower Upper

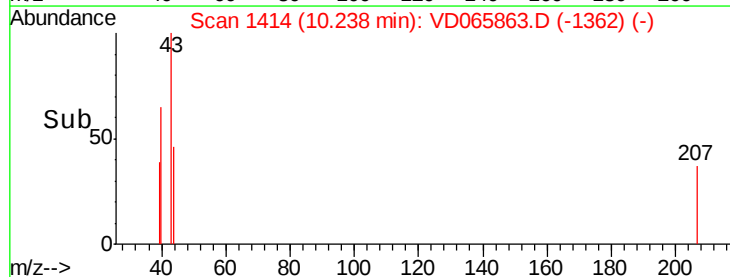
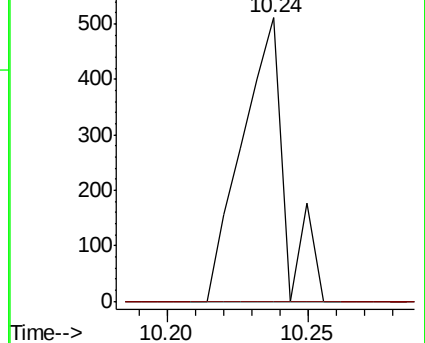
43 100

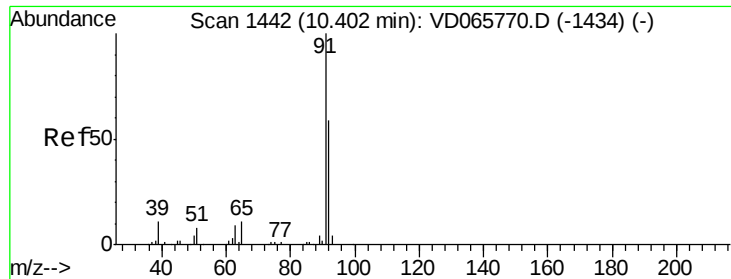
58 0.0 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#52

Toluene

Concen: 1.026 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

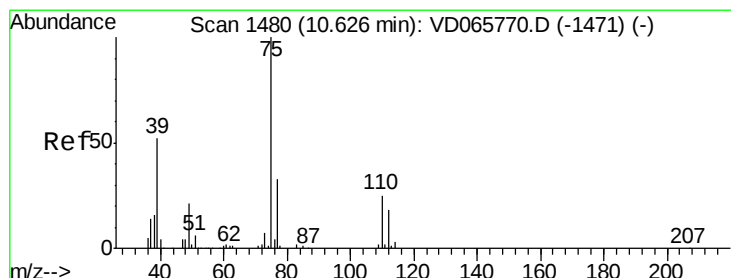
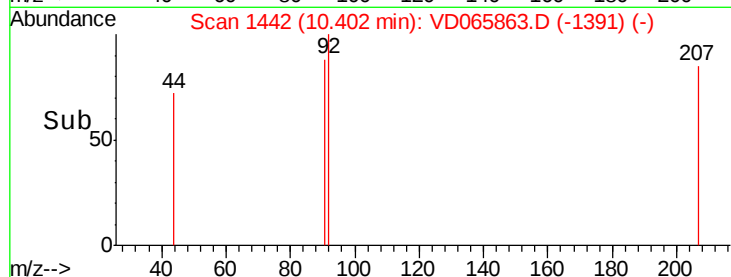
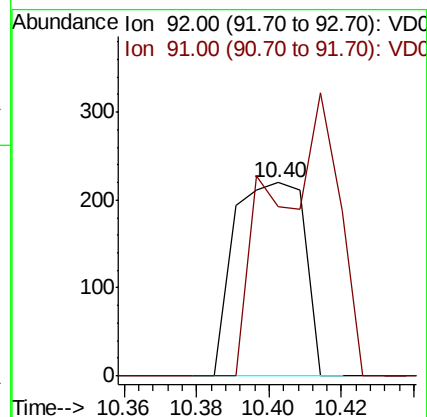
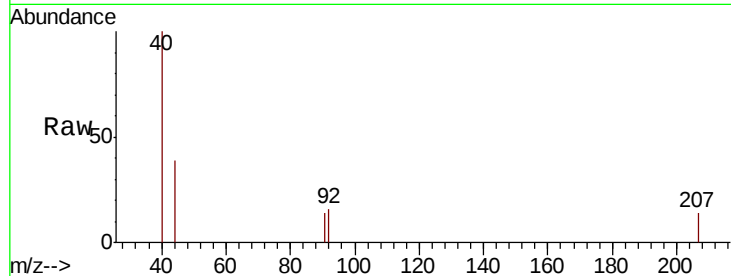
SB-17

Tot Ion: 92 Resp: 295

Ion Ratio Lower Upper

92 100

91 133.9 137.8 206.8#



#53

t-1,3-Dichloropropene

Concen: 3.883 ug/l

RT: 10.73 min Scan# 1497

Delta R.T. 0.10 min

Lab File: VD065863.D

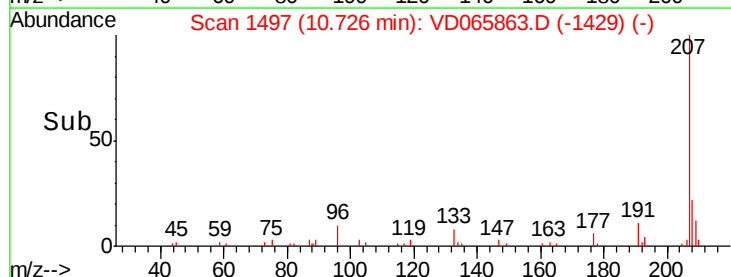
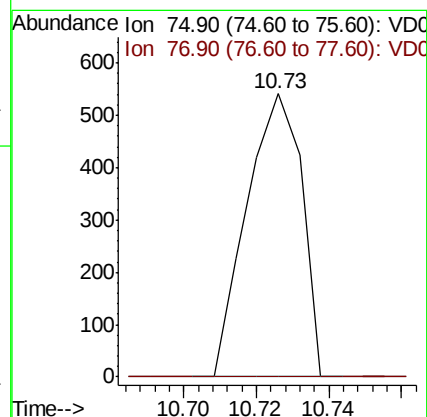
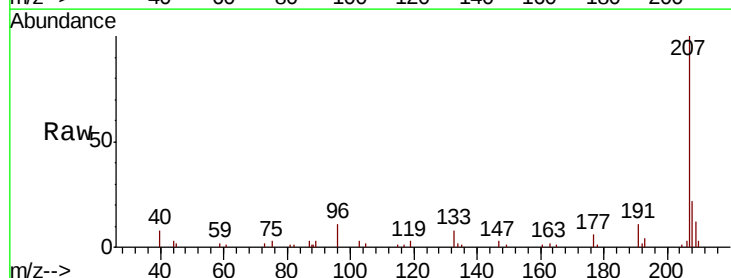
Acq: 23 Jun 2020 16:36

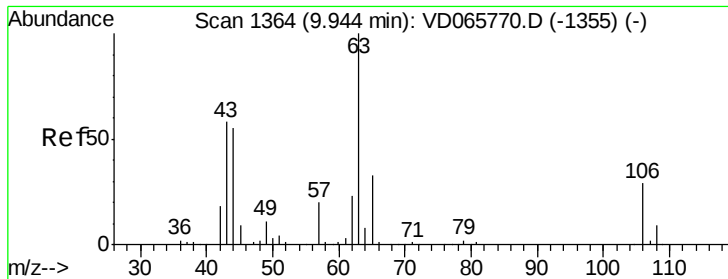
Tgt Ion: 75 Resp: 568

Ion Ratio Lower Upper

75 100

77 0.0 26.4 39.6#

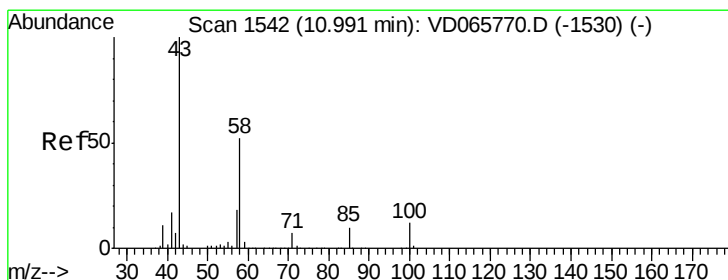
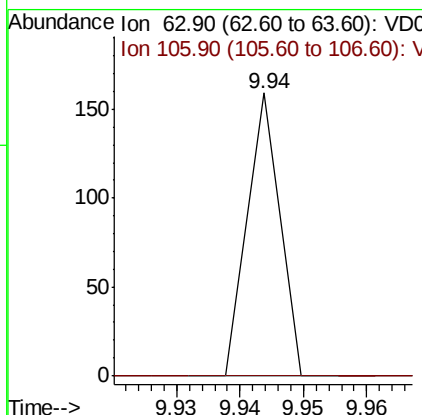
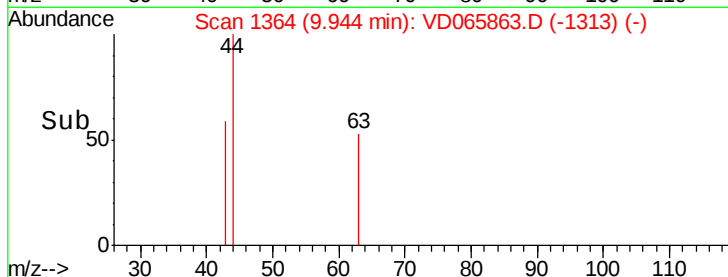
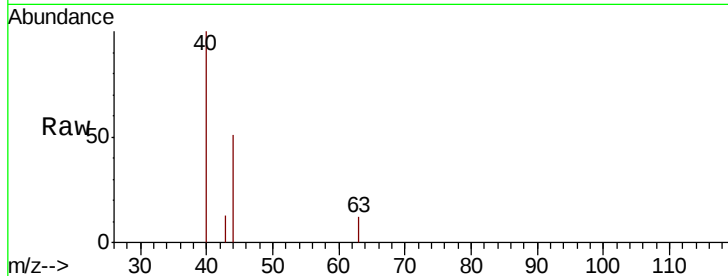




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.271 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD065863.D
 Acq: 23 Jun 2020 16:36

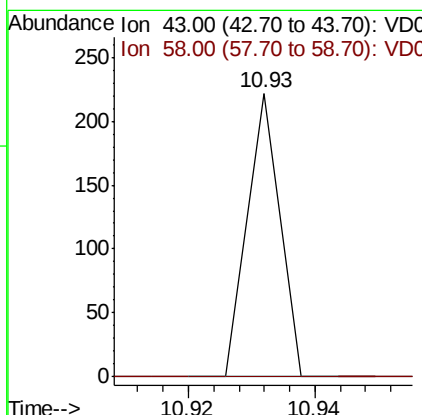
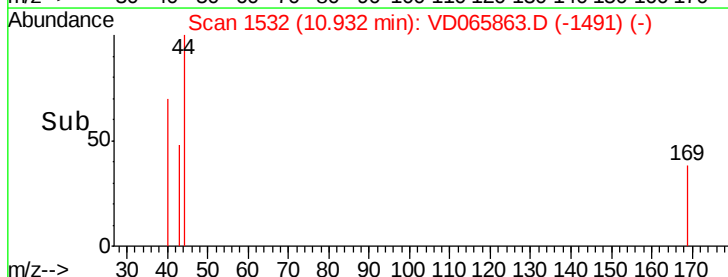
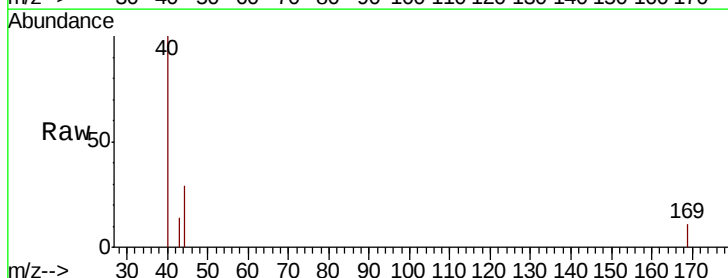
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-17

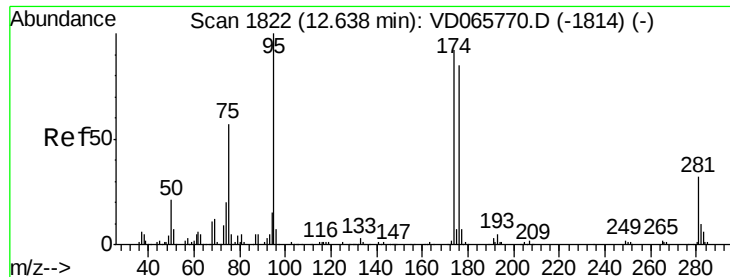
Tot Ion: 63 Resp: 56
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.2 34.8#



#59
 2-Hexanone
 Concen: 1.863 ug/l
 RT: 10.93 min Scan# 1532
 Delta R.T. -0.06 min
 Lab File: VD065863.D
 Acq: 23 Jun 2020 16:36

Tgt Ion: 43 Resp: 78
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.7 77.0#

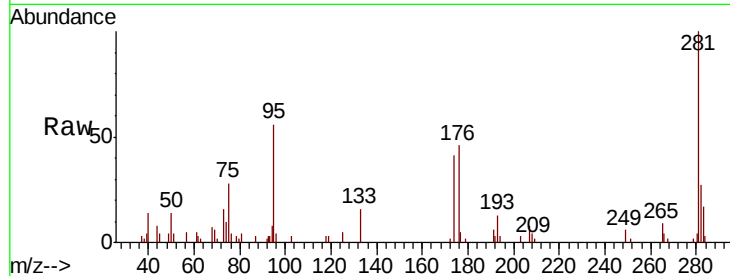




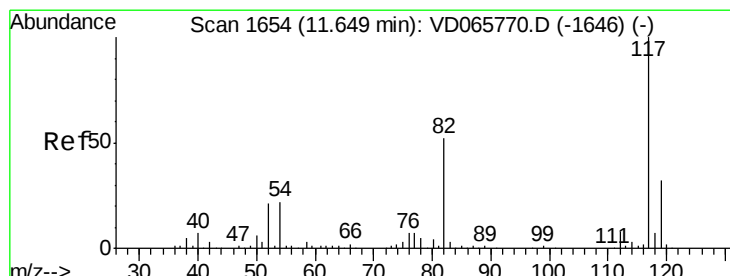
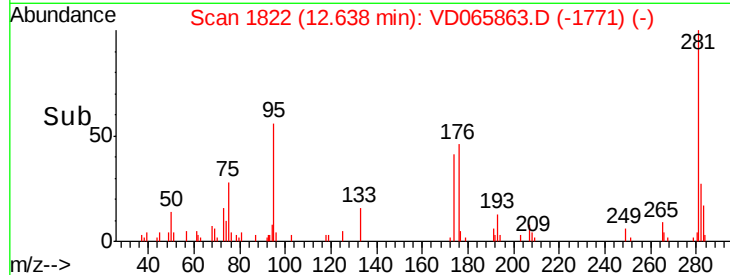
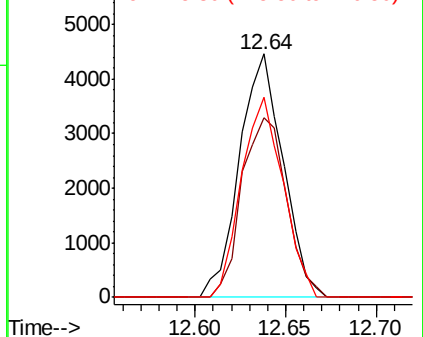
#62
4-Bromofluorobenzene
Concen: 55.425 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Instrument :
MSVOA_D
ClientSampleId :
SB-17

Tot Ion: 95 Resp: 7479
Ion Ratio Lower Upper
95 100
174 75.5 0.0 175.2
176 78.2 0.0 163.0

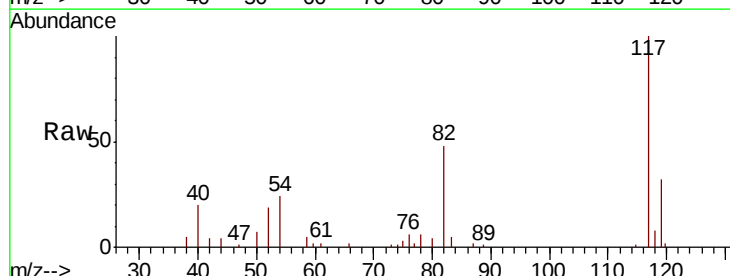


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

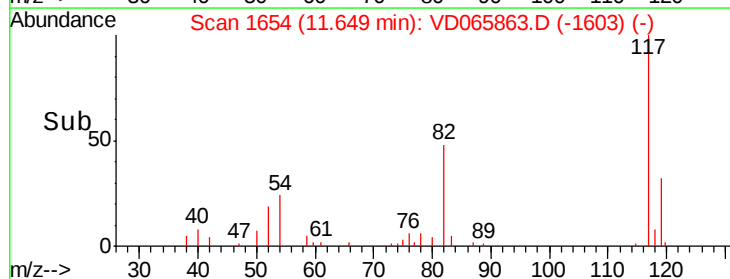
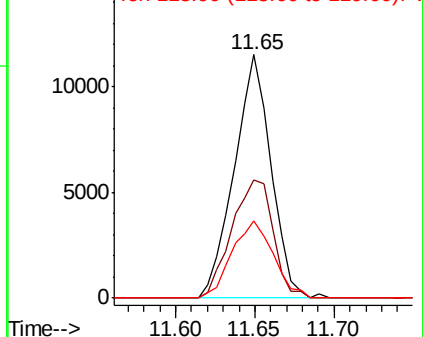


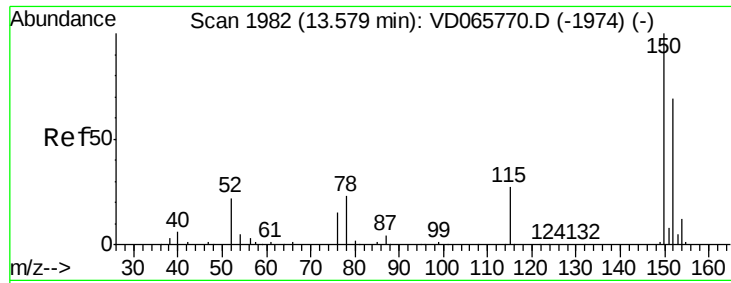
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Tgt Ion: 117 Resp: 18517
Ion Ratio Lower Upper
117 100
82 48.4 41.9 62.9
119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampleId :

SB-17

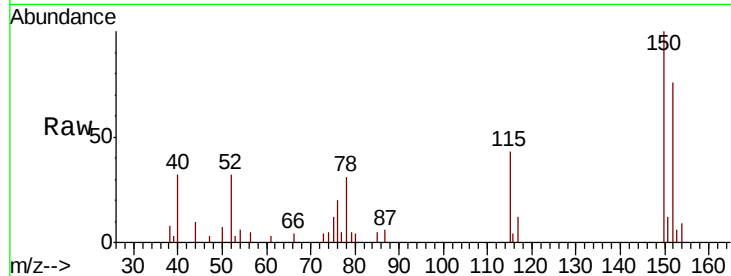
Tot Ion:152 Resp: 7165

Ion Ratio Lower Upper

152 100

115 58.5 28.7 86.1

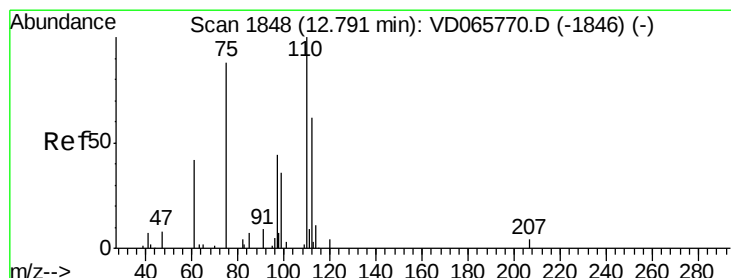
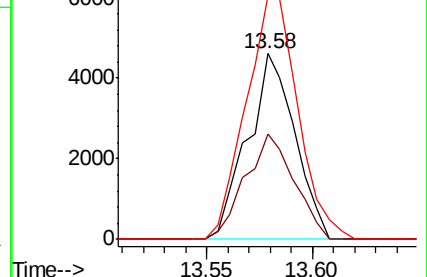
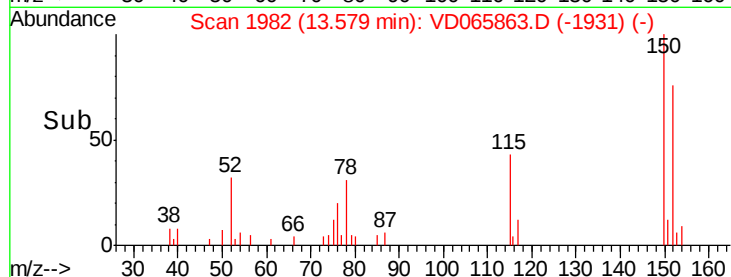
150 144.3 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 75.606 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD065863.D

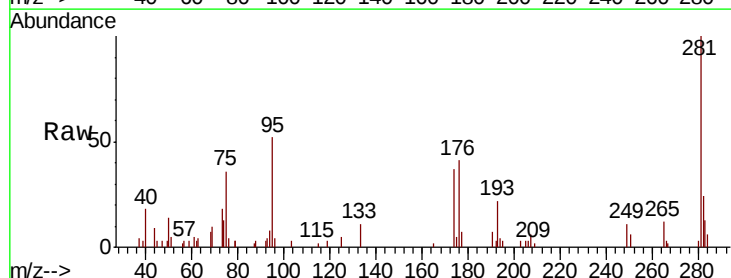
Acq: 23 Jun 2020 16:36

Tgt Ion: 75 Resp: 4213

Ion Ratio Lower Upper

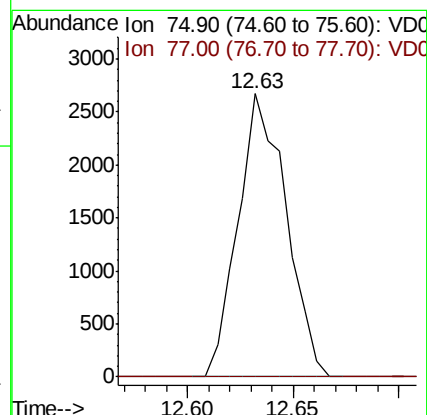
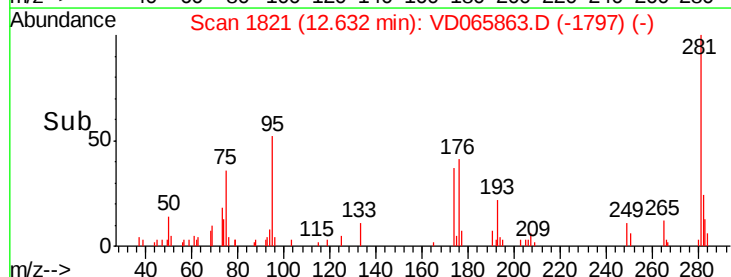
75 100

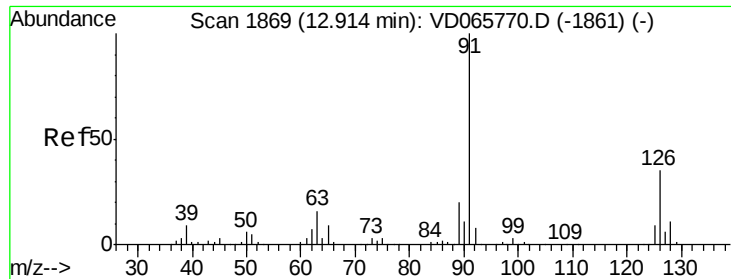
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

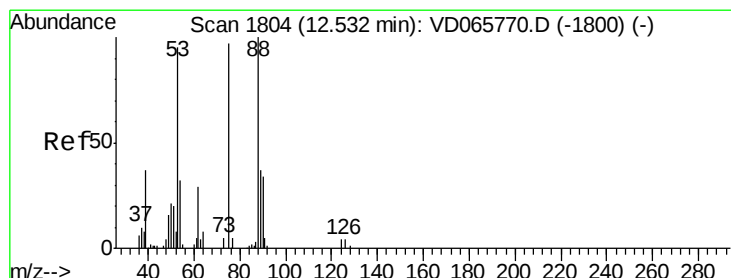
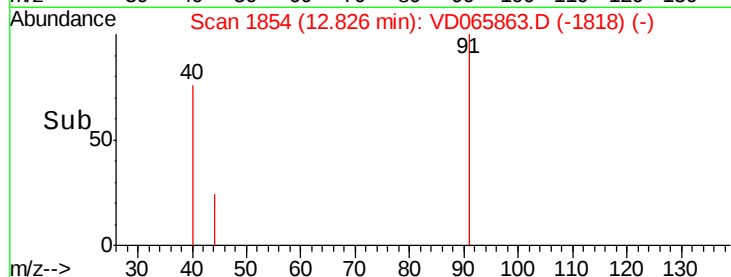
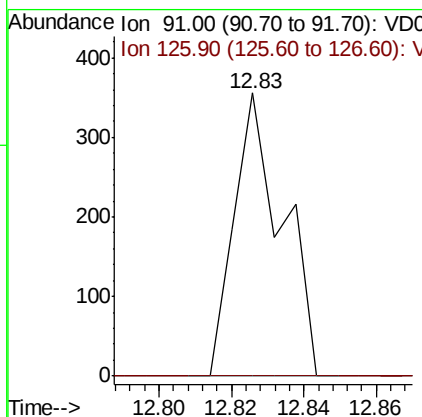
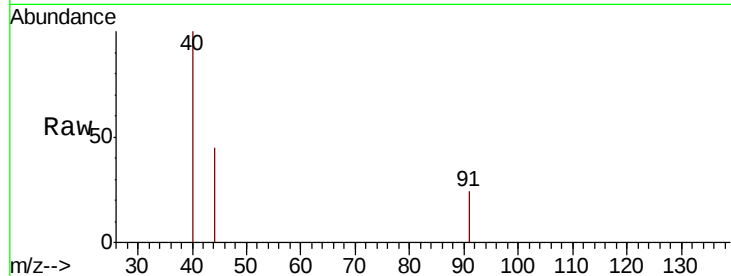




#79
2-Chlorotoluene
Concen: 1.034 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. -0.09 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

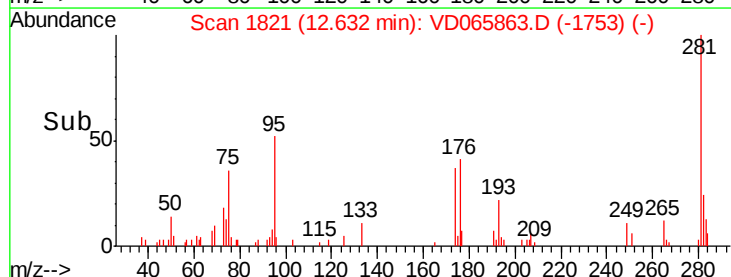
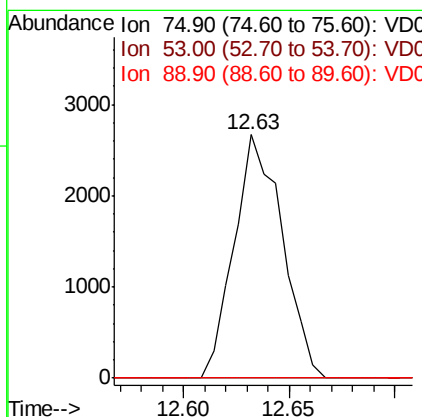
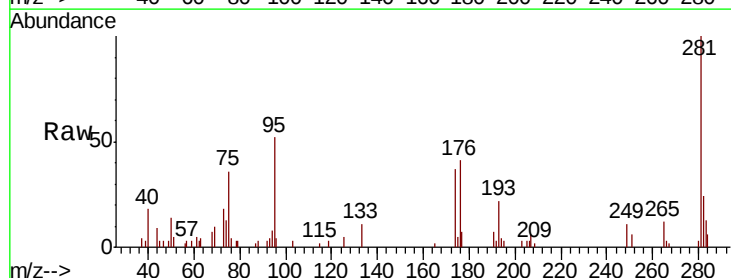
Instrument :
MSVOA_D
ClientSampleId :
SB-17

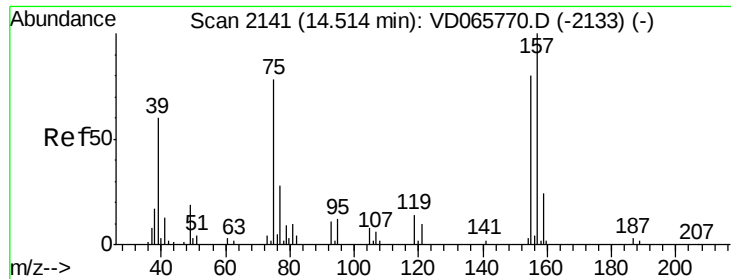
Tot Ion: 91 Resp: 328
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 163.356 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.10 min
Lab File: VD065863.D
Acq: 23 Jun 2020 16:36

Tgt Ion: 75 Resp: 4213
Ion Ratio Lower Upper
75 100
53 0.0 82.6 123.8#
89 0.0 35.9 53.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.925 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

Instrument :

MSVOA_D

ClientSampled :

SB-17

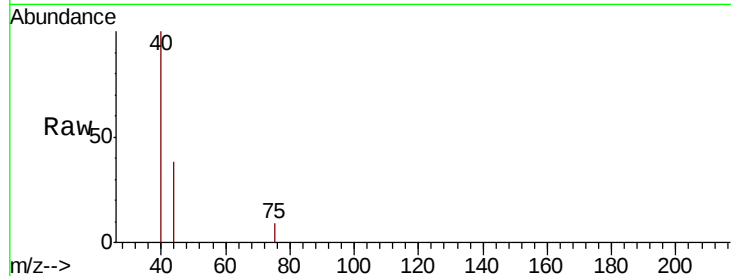
Tot Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

155 0.0 46.3 138.9#

157 0.0 58.1 174.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.52

150

100

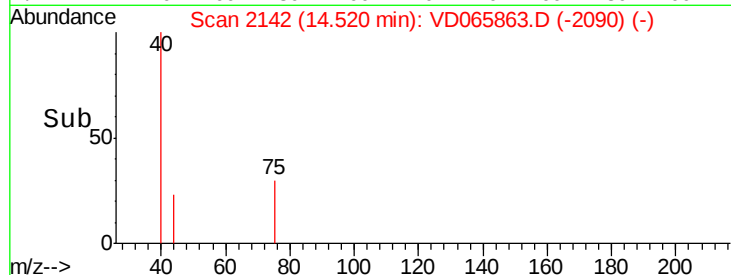
50

0

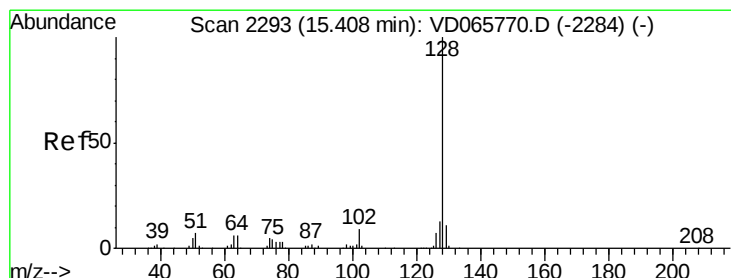
14.50

14.52

14.54



Time-->



#95

Naphthalene

Concen: 2.008 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD065863.D

Acq: 23 Jun 2020 16:36

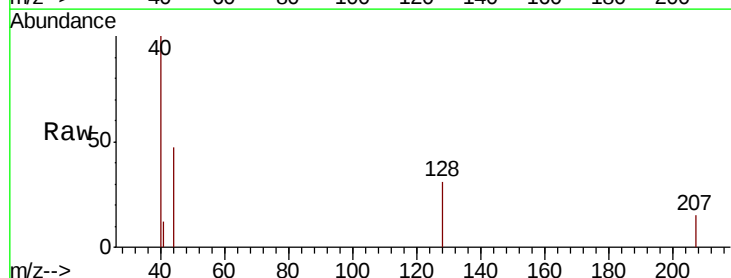
Tgt Ion: 128 Resp: 446

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.6 12.8#



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

600

500

400

300

200

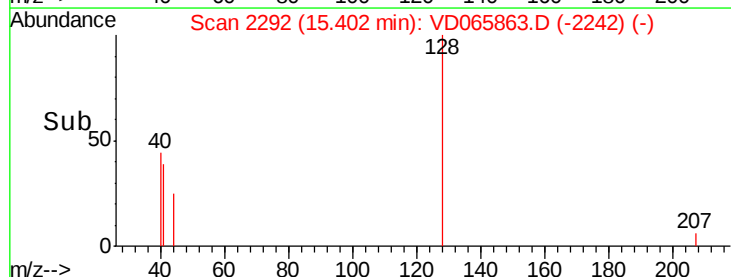
100

0

15.40

15.42

15.44



Time-->