

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061820\
 Data File : VD065808.D
 Acq On : 18 Jun 2020 15:13
 Operator : VA/SY
 Sample : L2818-01
 Misc : 6.24G/5.00ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-061720

Quant Time: Jun 19 01:02:21 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	3662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	7043	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	6098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2160	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	4264	117.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	235.68%	
35) Dibromofluoromethane	7.92	113	2644	59.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	118.86%	
50) Toluene-d8	10.34	98	7091	42.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.50%	
62) 4-Bromofluorobenzene	12.64	95	2459	43.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	87.42%	

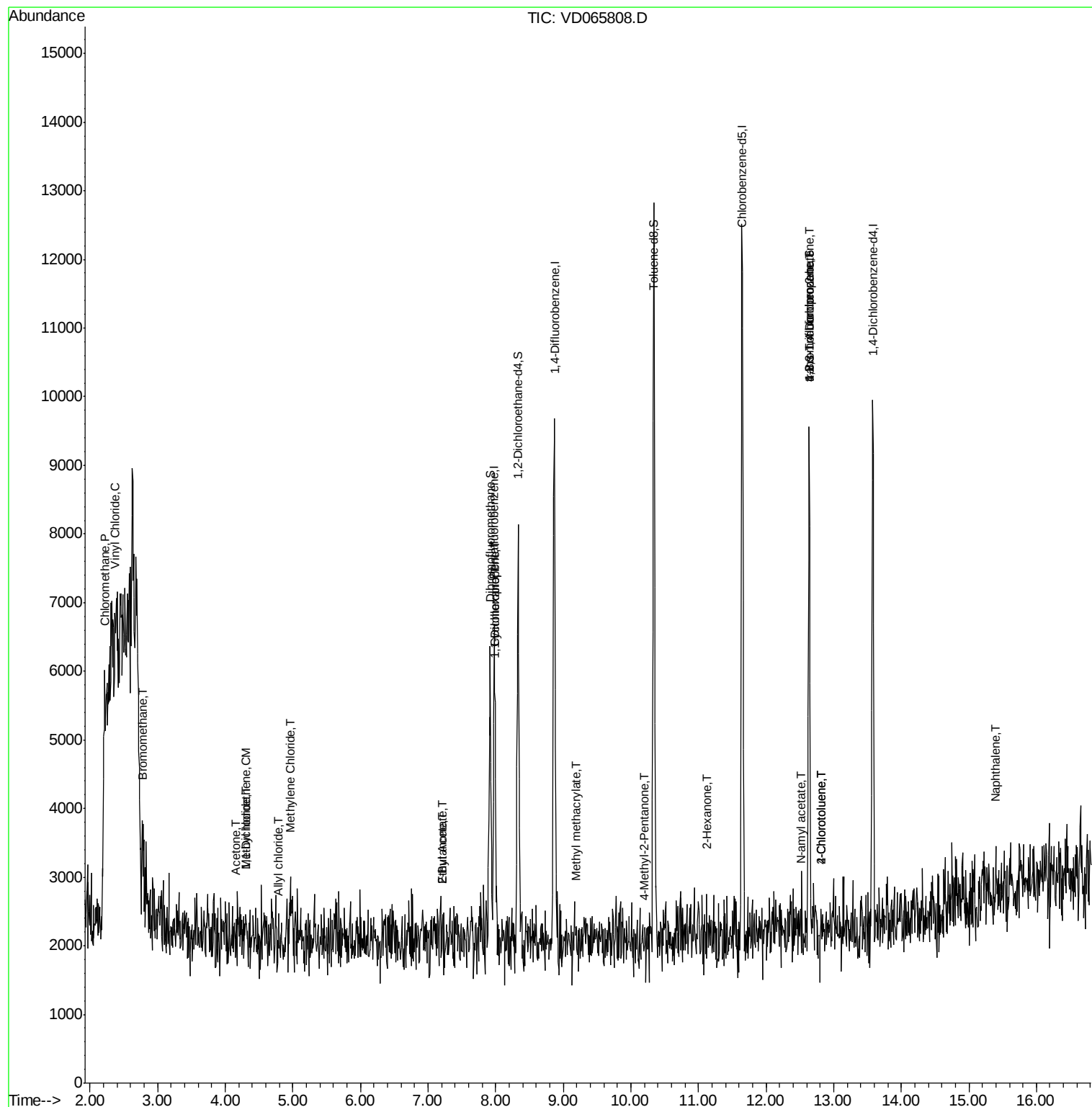
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	354	3.267	ug/l #	50
4) Vinyl Chloride	2.37	62	106	1.962	ug/l #	43
5) Bromomethane	2.79	94	772	20.432	ug/l	91
10) Methyl Iodide	4.31	142	291	8.187	ug/l #	68
12) 1,1-Dichloroethene	4.30	96	62	1.864	ug/l #	1
14) Allyl chloride	4.78	41	68	1.237	ug/l #	20
16) Acetone	4.17	43	455	66.659	ug/l #	47
18) Methyl Acetate	4.70	43	54	Below Cal	#	52
20) Methylene Chloride	4.96	84	268	3.231	ug/l #	31
25) 2-Butanone	7.20	43	68	7.214	ug/l #	52
31) Cyclohexane	7.99	56	69	1.063	ug/l #	16
36) 1,1-Dichloropropene	8.00	75	112	1.660	ug/l #	41
37) Ethyl Acetate	7.20	43	68	2.559	ug/l #	70
48) Methyl methacrylate	9.20	41	56	2.189	ug/l #	15
51) 4-Methyl-2-Pentanone	10.20	43	63	2.433	ug/l #	37
59) 2-Hexanone	11.11	43	62	3.551	ug/l #	26
74) N-amyl acetate	12.51	43	69	2.142	ug/l #	44
76) 1,2,3-Trichloropropane	12.64	75	1125	66.970	ug/l #	100
79) 2-Chlorotoluene	12.82	91	129	1.349	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.64	75	1125	144.696	ug/l #	9
82) 4-Chlorotoluene	12.82	91	129	1.257	ug/l #	40
95) Naphthalene	15.41	128	408	6.093	ug/l #	69

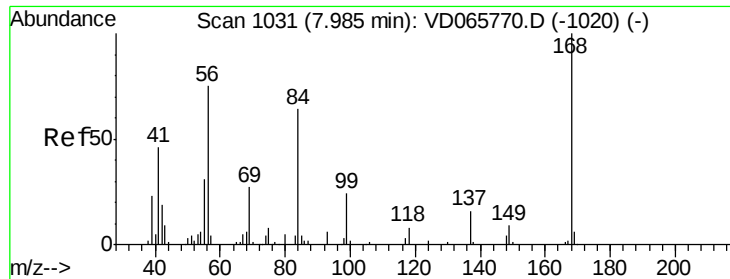
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 19 01:02:21 2020
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Quant Title : SW846 8260
QLast Update : Fri Jun 05 13:07:30 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

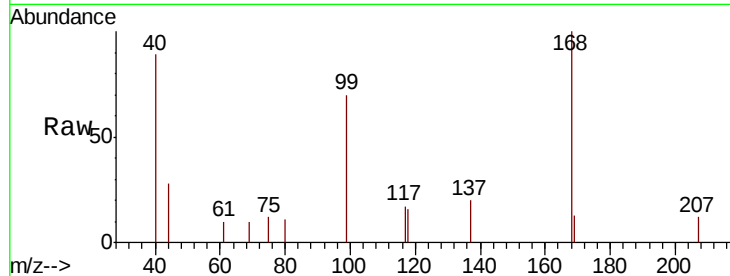
TR-05-061720

Tot Ion:168 Resp: 3662

Ion Ratio Lower Upper

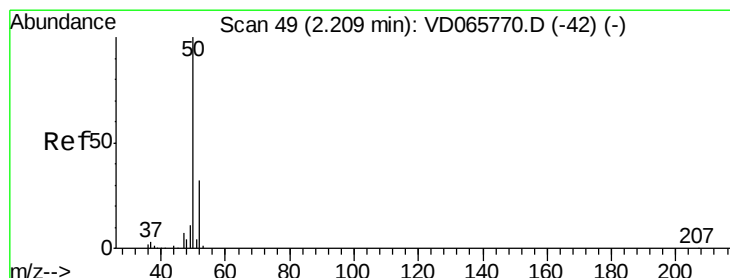
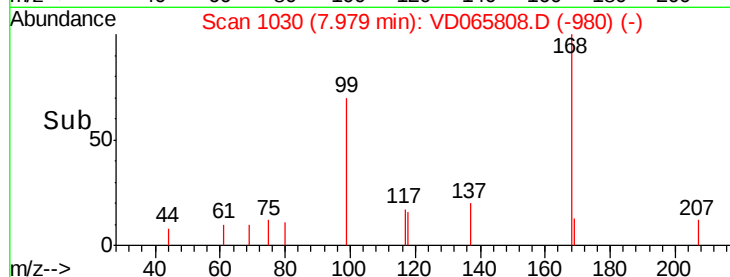
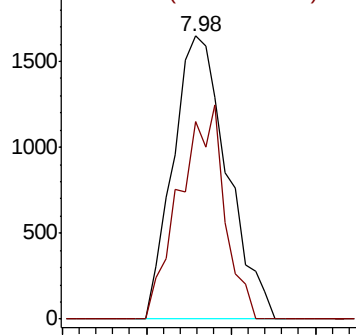
168 100

99 69.8 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: 3.267 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065808.D

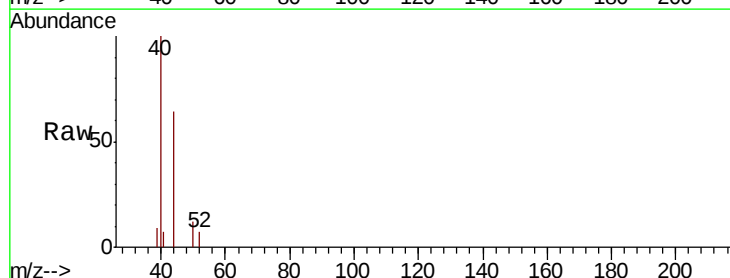
Acq: 18 Jun 2020 15:13

Tgt Ion: 50 Resp: 354

Ion Ratio Lower Upper

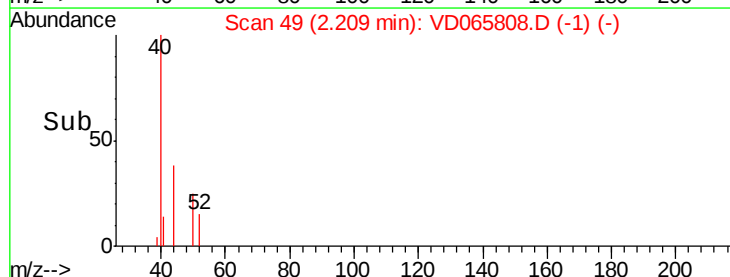
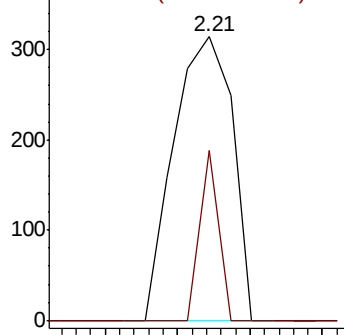
50 100

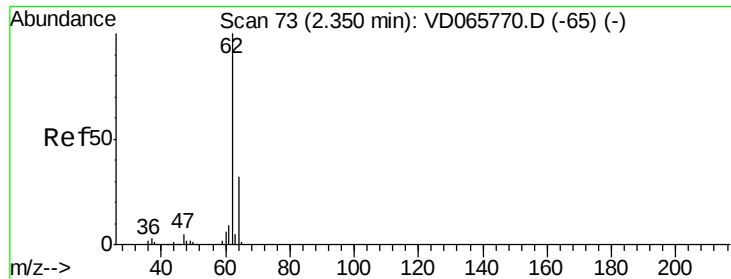
52 59.9 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 1.962 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

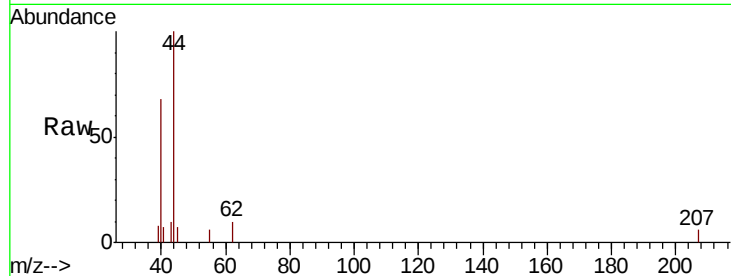
TR-05-061720

Tot Ion: 62 Resp: 106

Ion Ratio Lower Upper

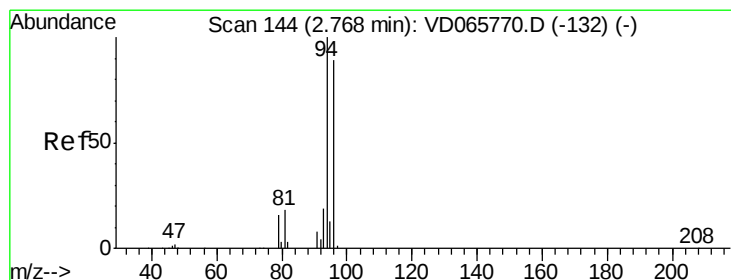
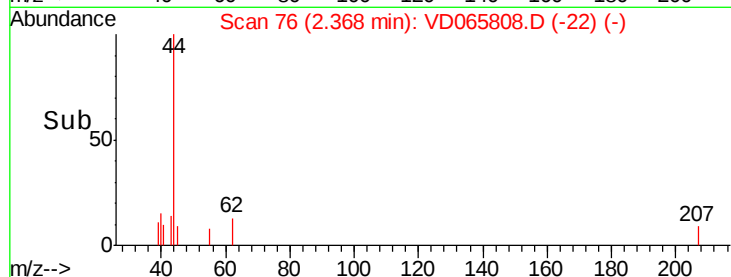
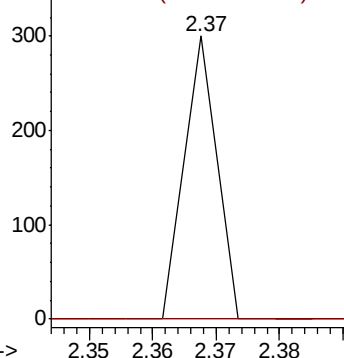
62 100

64 0.0 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC



#5

Bromomethane

Concen: 20.432 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065808.D

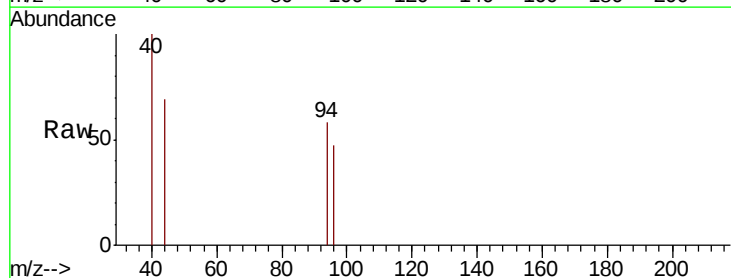
Acq: 18 Jun 2020 15:13

Tgt Ion: 94 Resp: 772

Ion Ratio Lower Upper

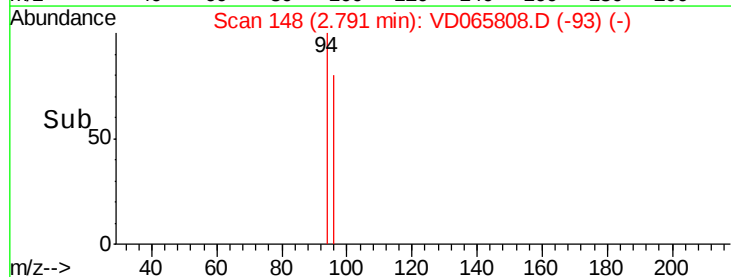
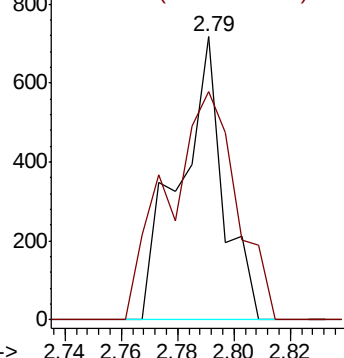
94 100

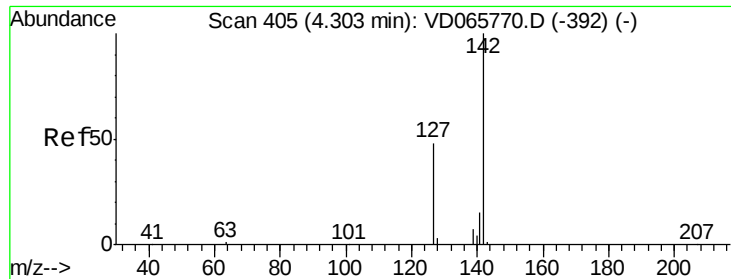
96 80.5 71.4 107.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

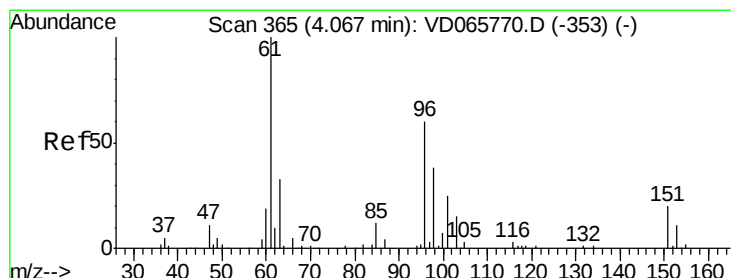
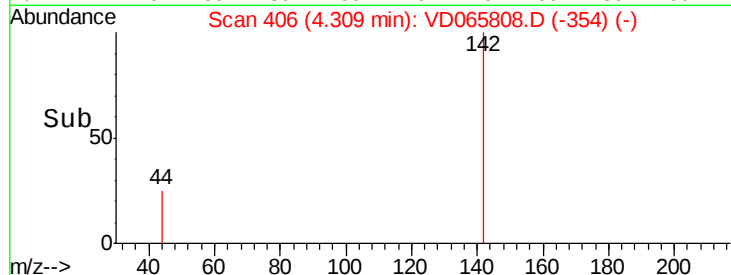
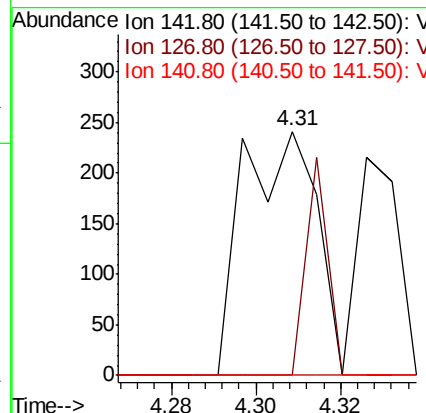
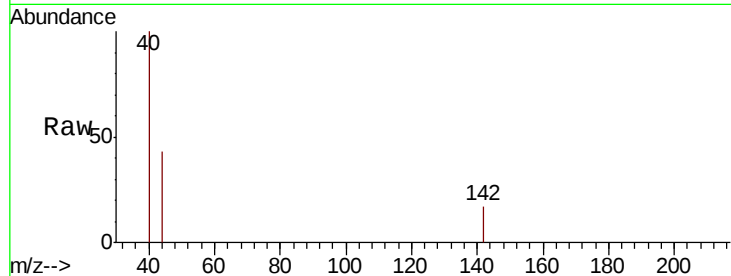




#10
Methvl Iodide
Concen: 8.187 ug/l
RT: 4.31 min Scan# 406
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

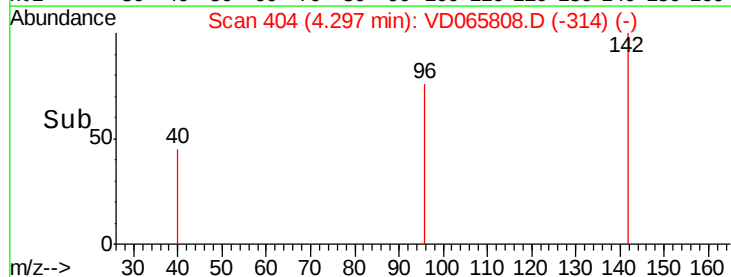
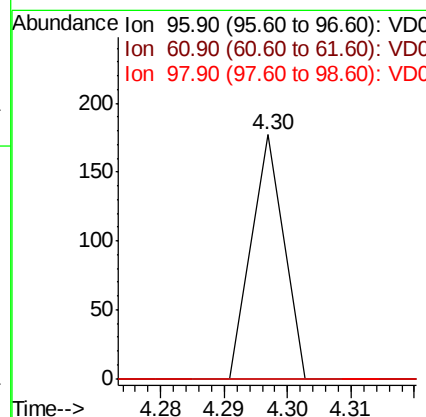
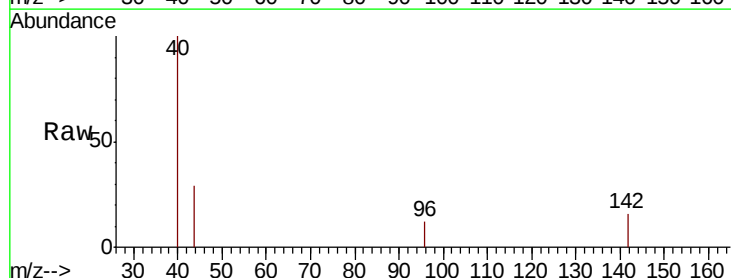
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

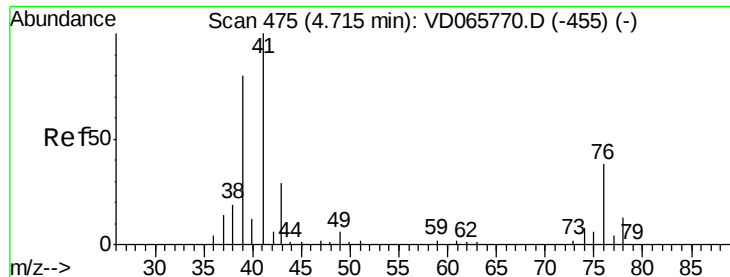
Tot Ion:142 Resp: 291
Ion Ratio Lower Upper
142 100
127 26.1 37.6 56.4#
141 0.0 12.1 18.1#



#12
1,1-Dichloroethene
Concen: 1.864 ug/l
RT: 4.30 min Scan# 404
Delta R.T. 0.23 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 96 Resp: 62
Ion Ratio Lower Upper
96 100
61 0.0 132.3 198.5#
98 0.0 50.7 76.1#





#14

Allvl chloride

Concen: 1.237 ug/l

RT: 4.78 min Scan# 486

Delta R.T. 0.06 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

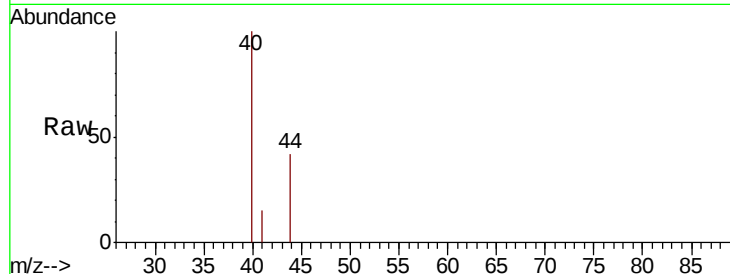
Tot Ion: 41 Resp: 68

Ion Ratio Lower Upper

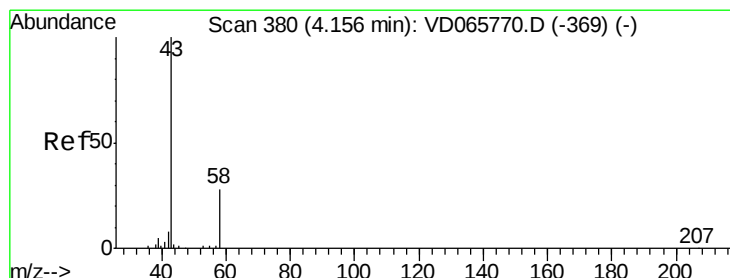
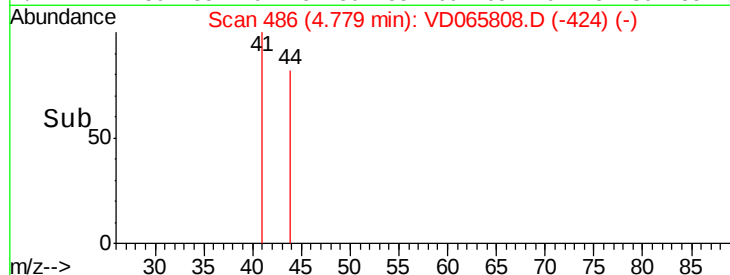
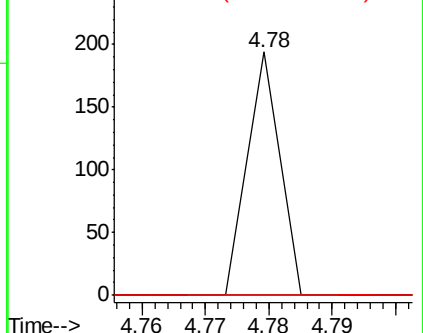
41 100

39 0.0 60.9 91.3#

76 0.0 28.9 43.3#



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 75.90 (75.60 to 76.60): VDC



#16

Acetone

Concen: 66.659 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065808.D

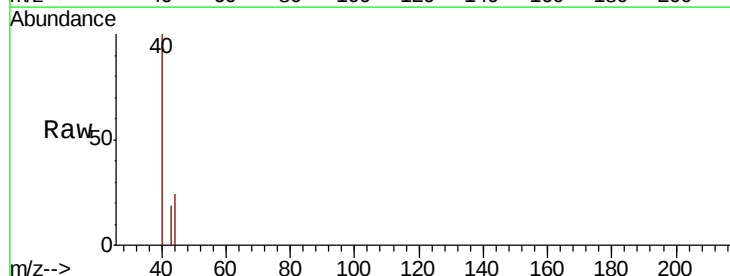
Acq: 18 Jun 2020 15:13

Tgt Ion: 43 Resp: 455

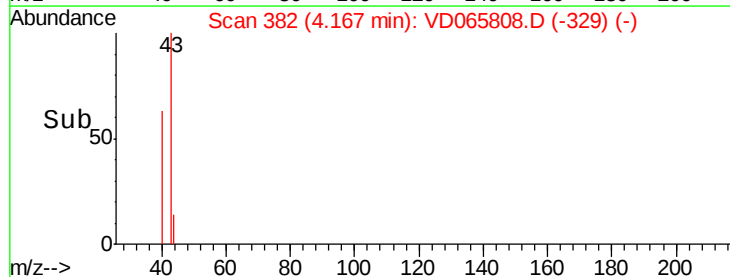
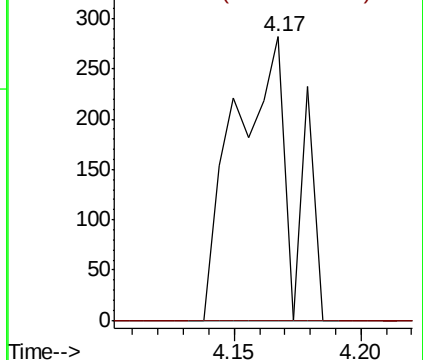
Ion Ratio Lower Upper

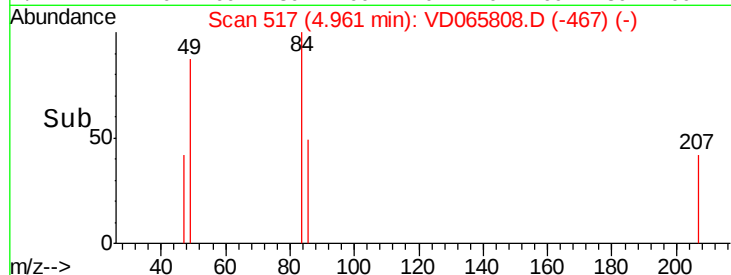
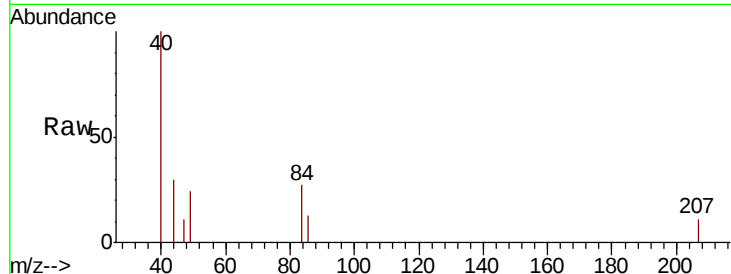
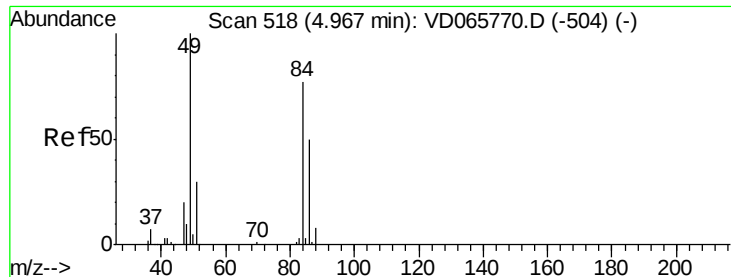
43 100

58 0.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

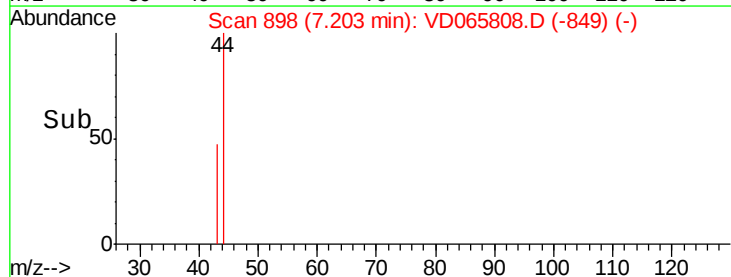
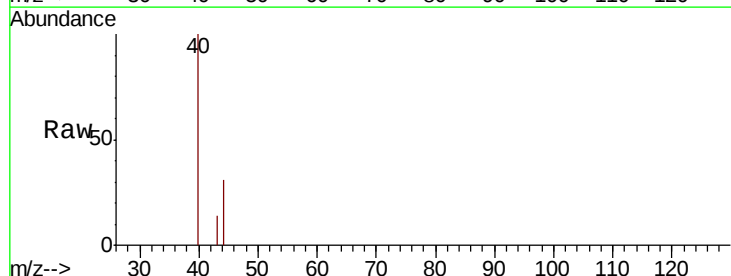
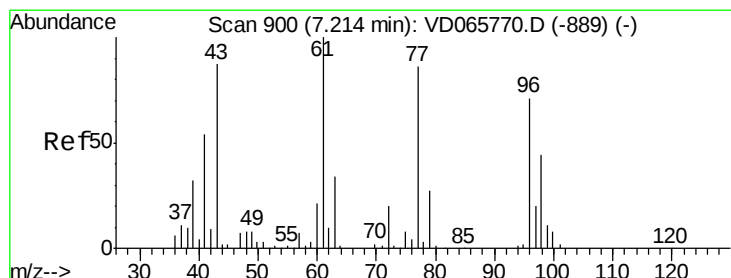
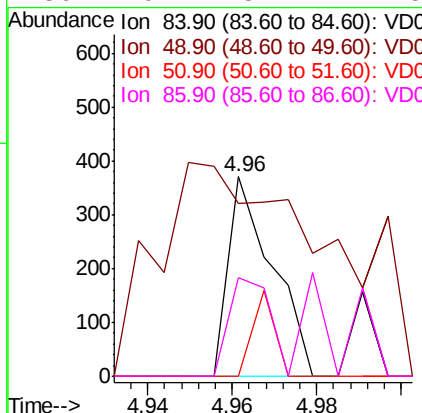




#20
Methvlene Chloride
Concen: 3.231 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

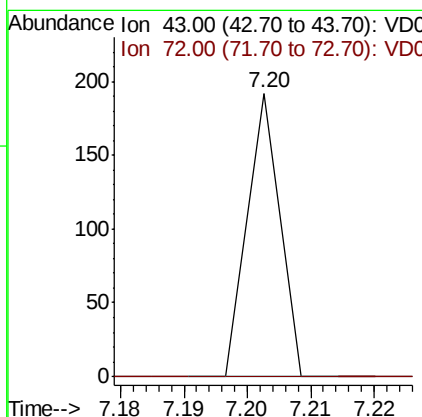
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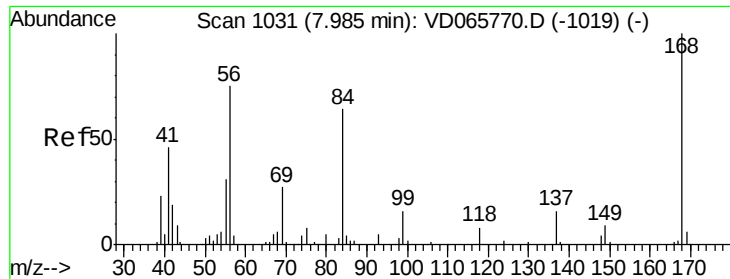
Tot Ion: 84 Resp: 268
Ion Ratio Lower Upper
84 100
49 18.4 103.4 155.0#
51 0.0 31.4 47.2#
86 49.2 51.7 77.5#



#25
2-Butanone
Concen: 7.214 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#

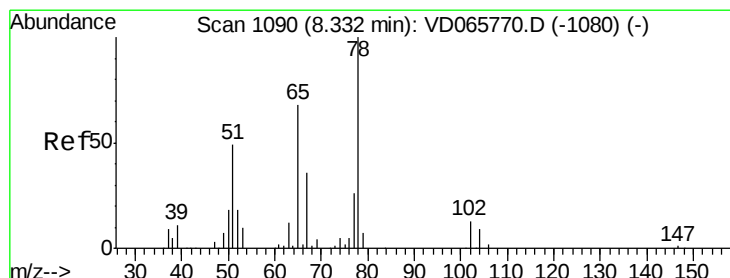
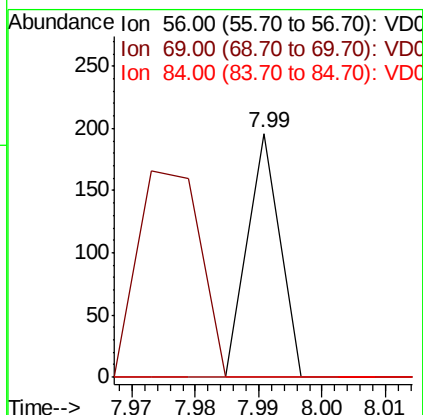
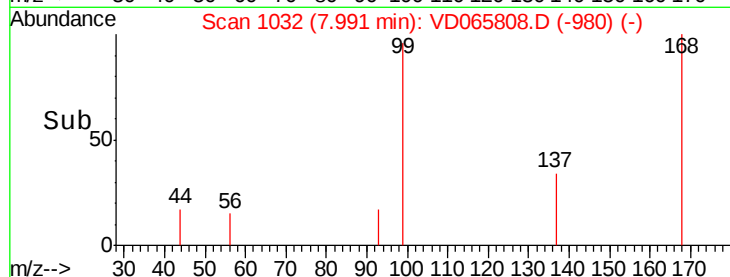
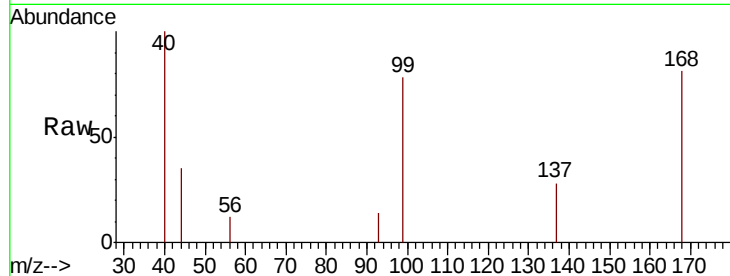




#31
Cyclohexane
Concen: 1.063 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

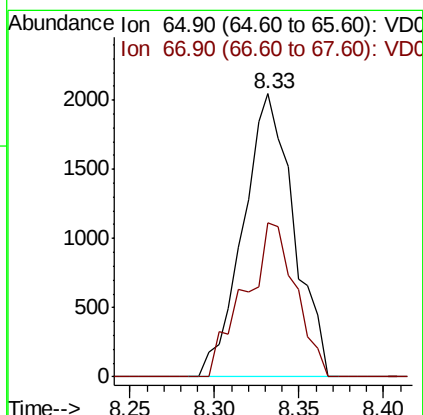
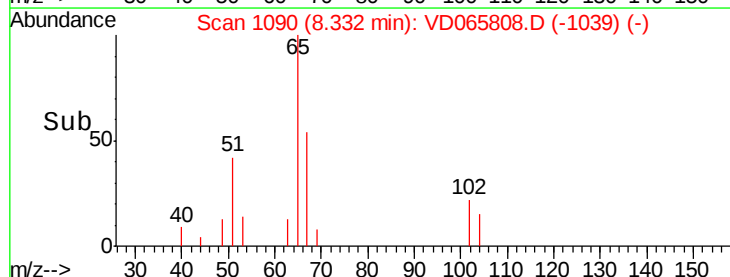
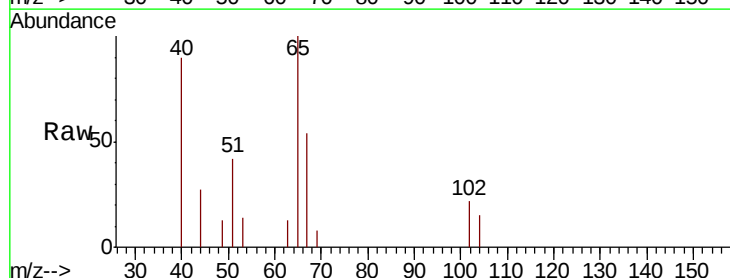
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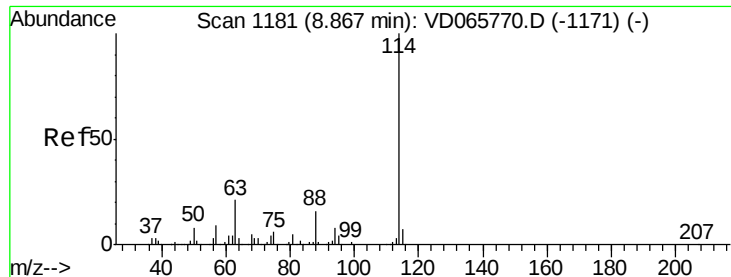
Tot Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
69 0.0 28.5 42.7#
84 0.0 68.4 102.6#



#33
1,2-Dichloroethane-d4
Concen: 117.837 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 65 Resp: 4264
Ion Ratio Lower Upper
65 100
67 54.5 0.0 103.6

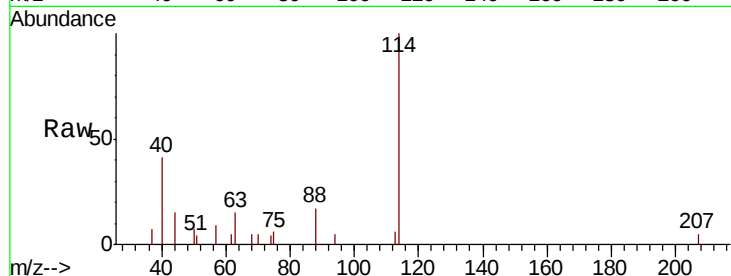




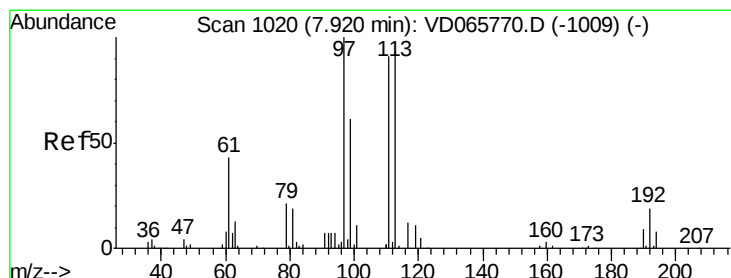
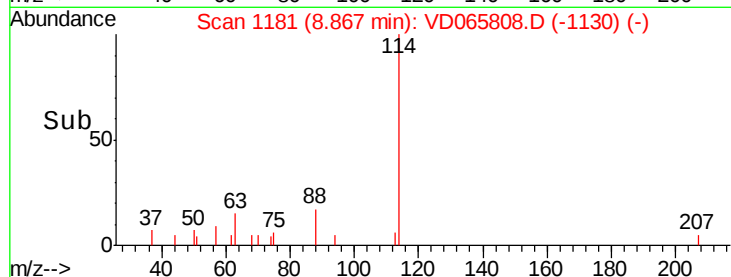
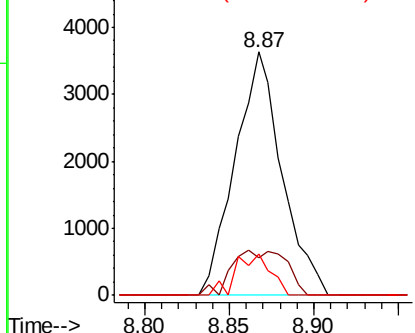
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065808.D
 Acq: 18 Jun 2020 15:13

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-061720

Tot Ion:114 Resp: 7043
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 41.8
 88 16.8 0.0 32.0

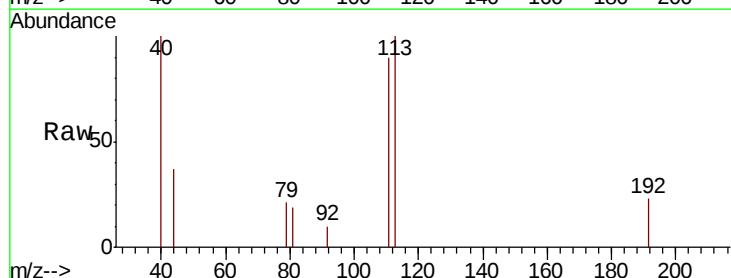


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

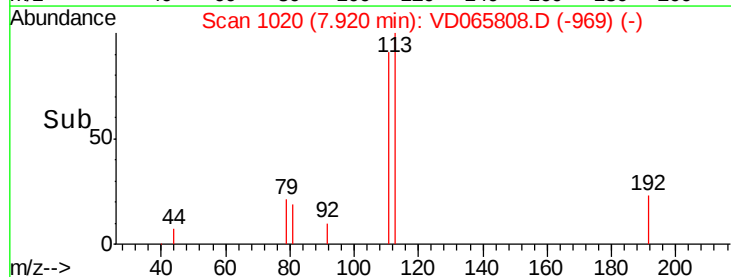
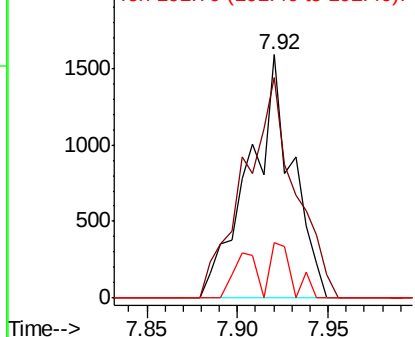


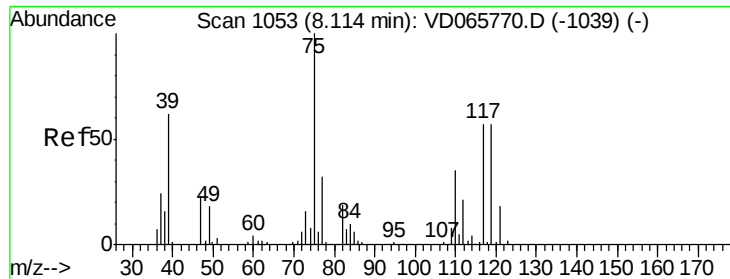
#35
 Dibromofluoromethane
 Concen: 59.432 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065808.D
 Acq: 18 Jun 2020 15:13

Tgt Ion:113 Resp: 2644
 Ion Ratio Lower Upper
 113 100
 111 106.6 83.4 125.0
 192 11.5 15.7 23.5#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 1.660 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. -0.12 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

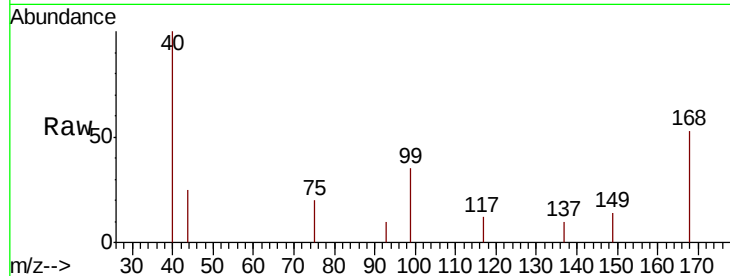
Tot Ion: 75 Resp: 112

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

8.00

300

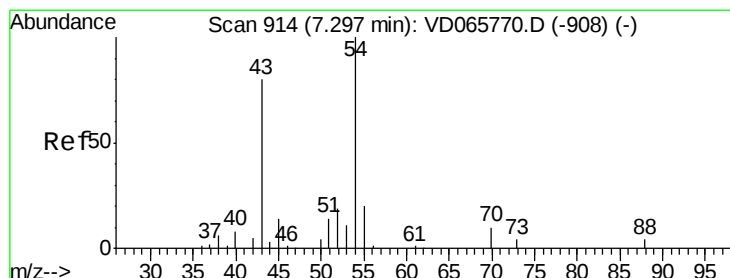
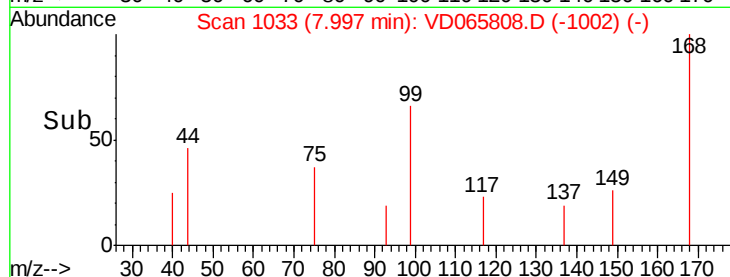
200

100

0

7.99 8.00 8.01

Time-->



#37

Ethyl Acetate

Concen: 2.559 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.09 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

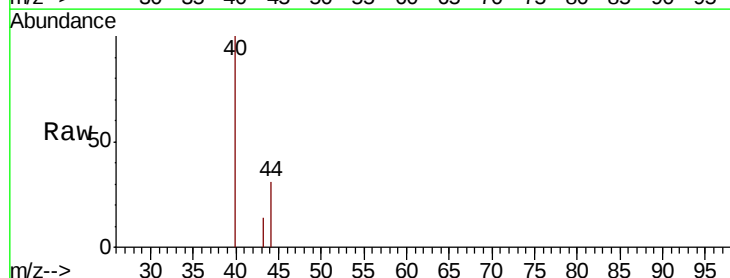
Tgt Ion: 43 Resp: 68

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

7.20

250

200

150

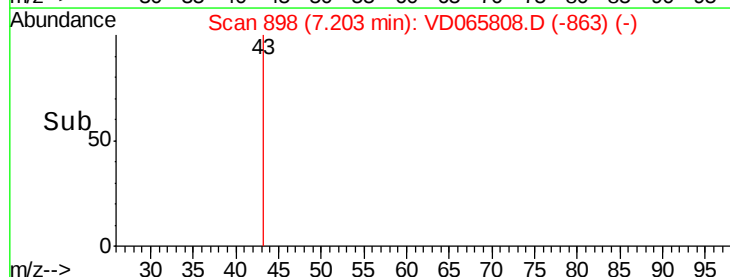
100

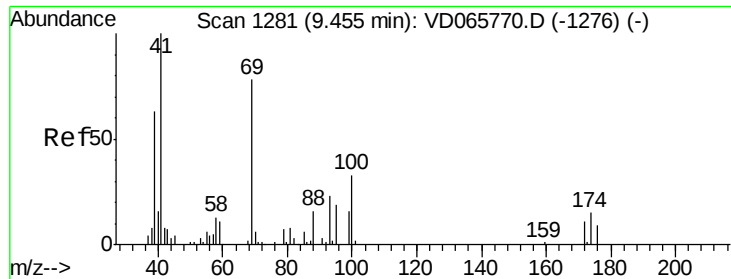
50

0

7.18 7.19 7.20 7.21 7.22

Time-->

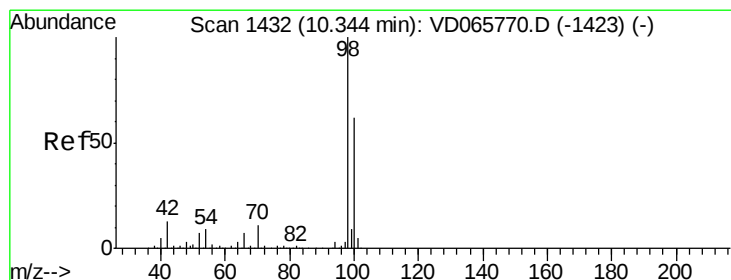
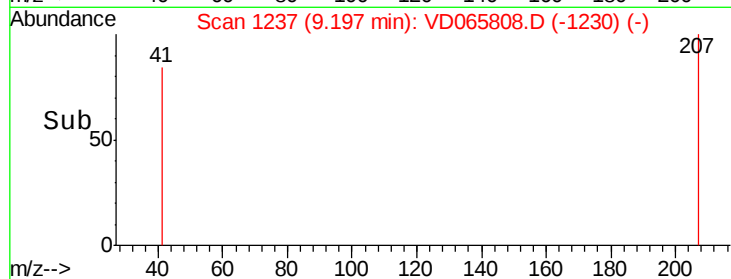
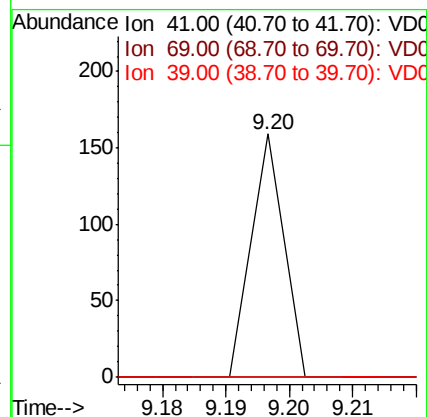
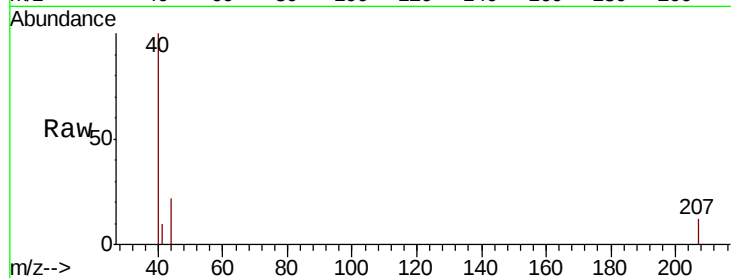




#48
Methvl methacrvlate
Concen: 2.189 ug/l
RT: 9.20 min Scan# 1237
Delta R.T. -0.26 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

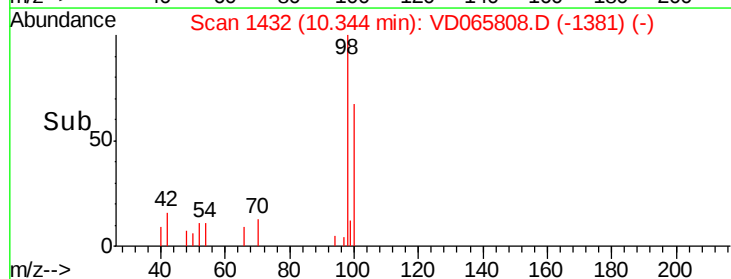
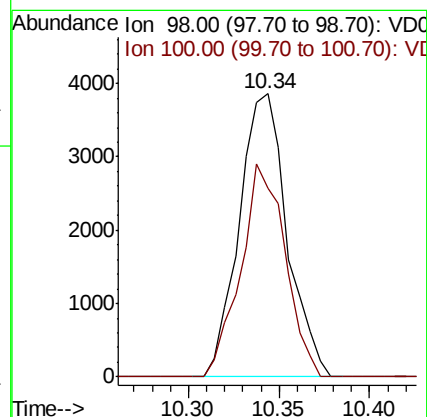
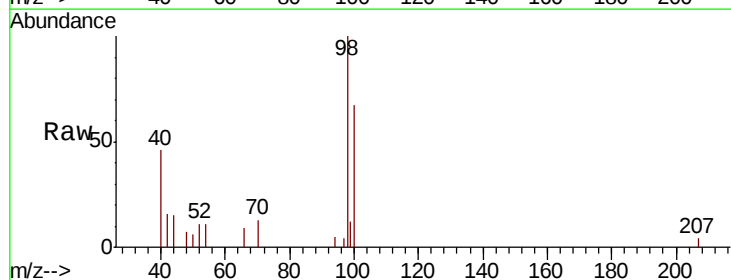
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

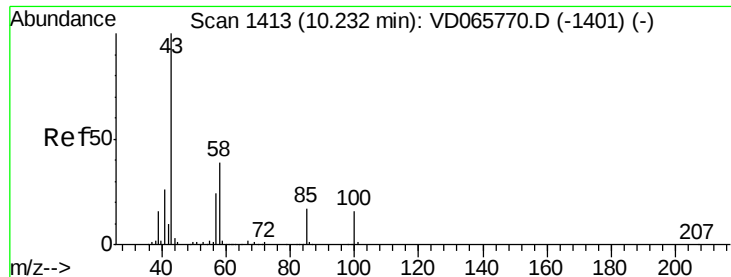
Tot Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 0.0 48.1 72.1#



#50
Toluene-d8
Concen: 42.745 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 98 Resp: 7091
Ion Ratio Lower Upper
98 100
100 69.8 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 2.433 ug/l

RT: 10.20 min Scan# 1407

Delta R.T. -0.04 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

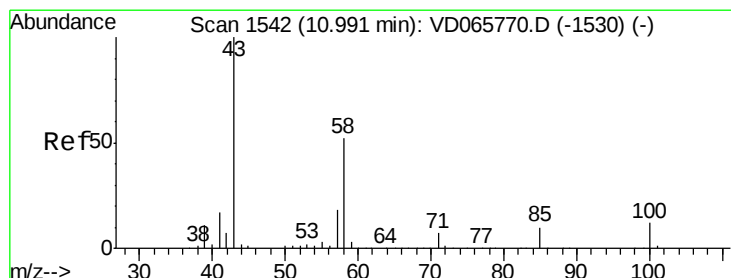
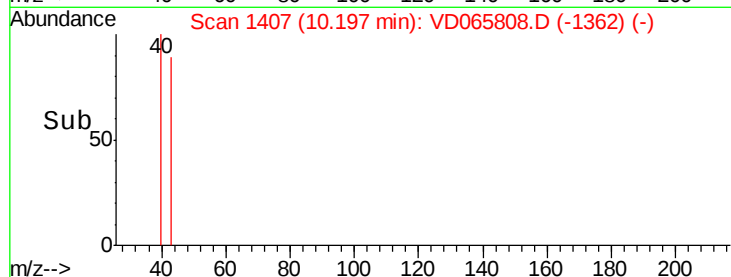
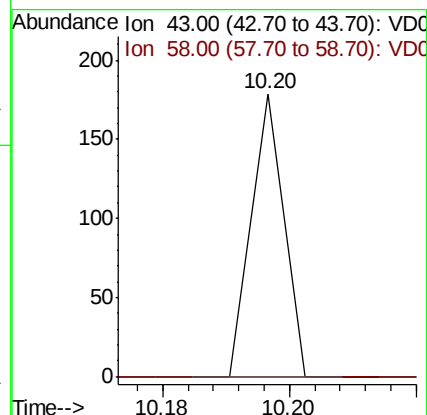
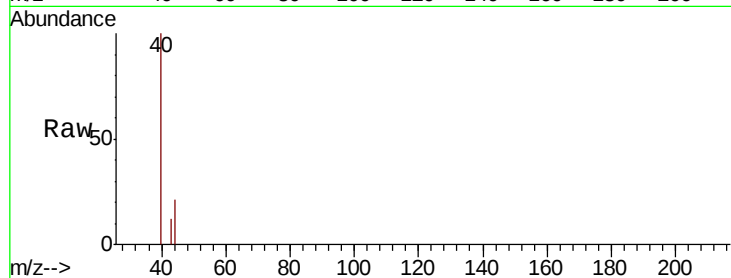
TR-05-061720

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

58 0.0 30.7 46.1#



#59

2-Hexanone

Concen: 3.551 ug/l

RT: 11.11 min Scan# 1563

Delta R.T. 0.12 min

Lab File: VD065808.D

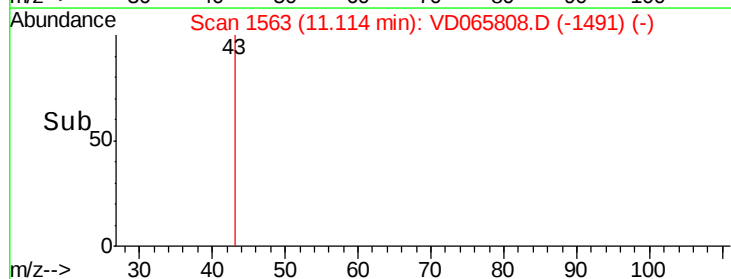
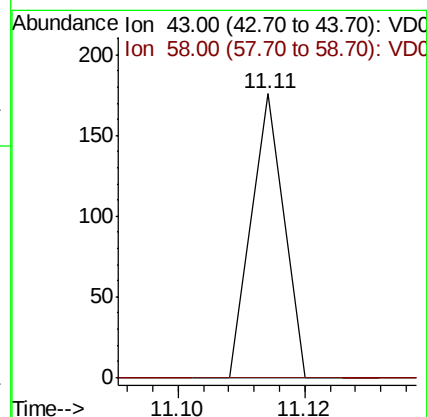
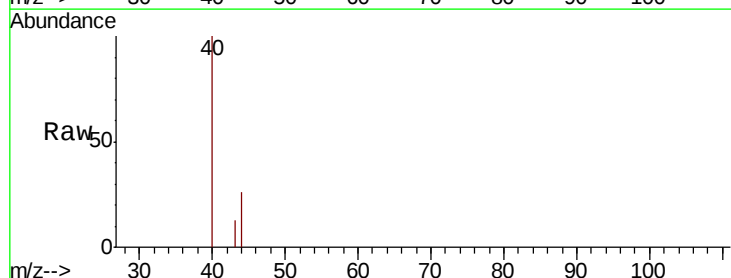
Acq: 18 Jun 2020 15:13

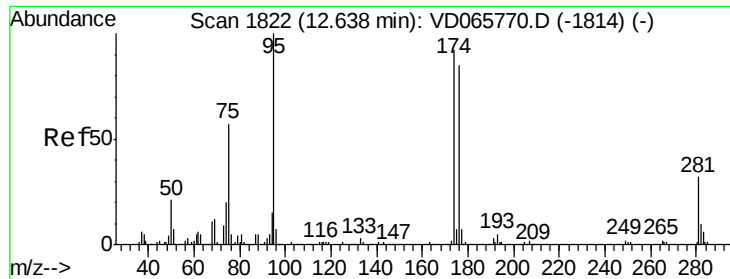
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

58 0.0 25.7 77.0#

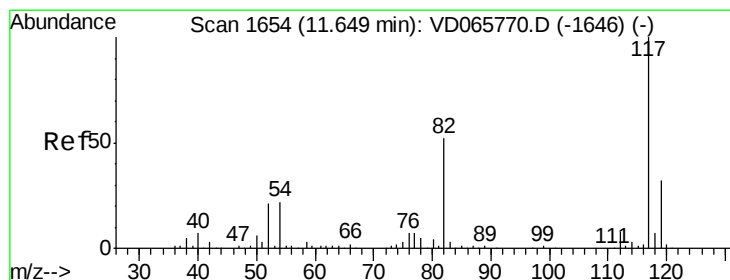
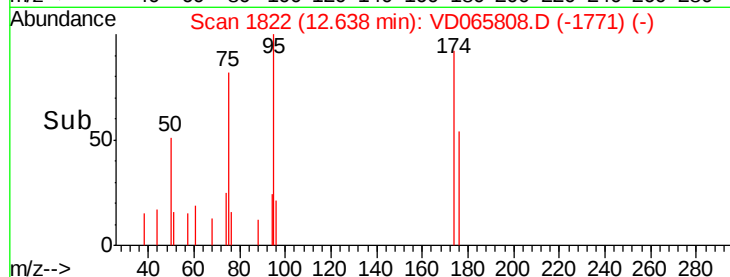
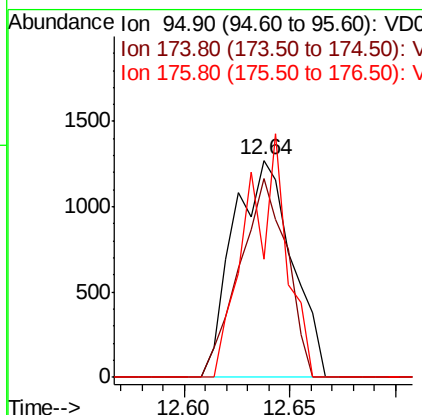
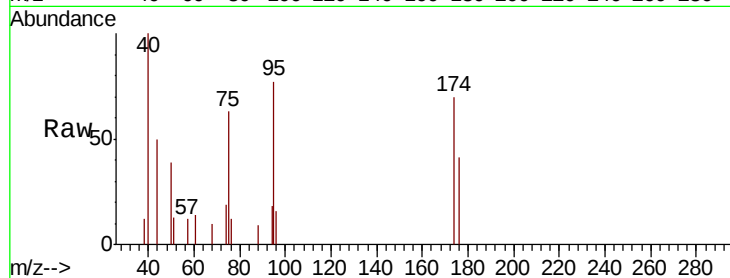




#62
4-Bromofluorobenzene
Concen: 43.709 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

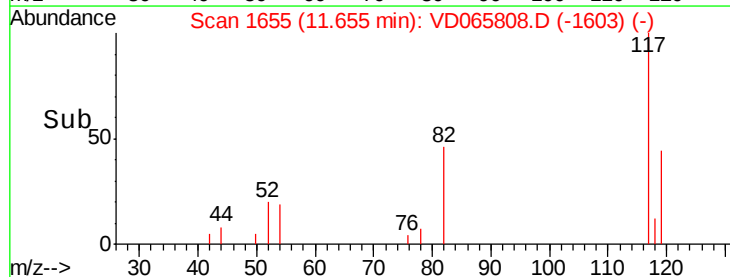
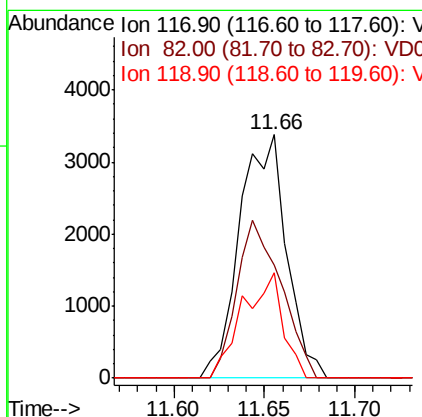
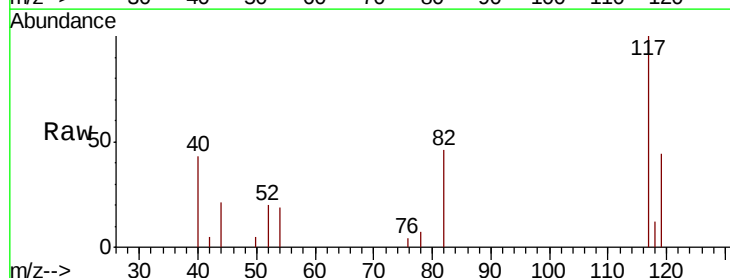
Instrument :
MSVOA_D
ClientSampleId :
TR-05-061720

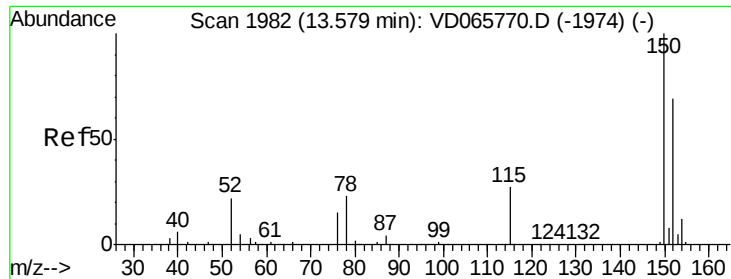
Tot Ion: 95 Resp: 2459
Ion Ratio Lower Upper
95 100
174 73.6 0.0 175.2
176 75.6 0.0 163.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065808.D
Acq: 18 Jun 2020 15:13

Tgt Ion: 117 Resp: 6098
Ion Ratio Lower Upper
117 100
82 46.2 41.9 62.9
119 43.5 25.3 37.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

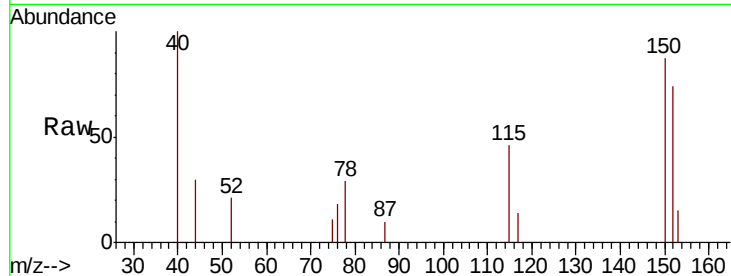
Tot Ion:152 Resp: 2160

Ion Ratio Lower Upper

152 100

115 65.6 28.7 86.1

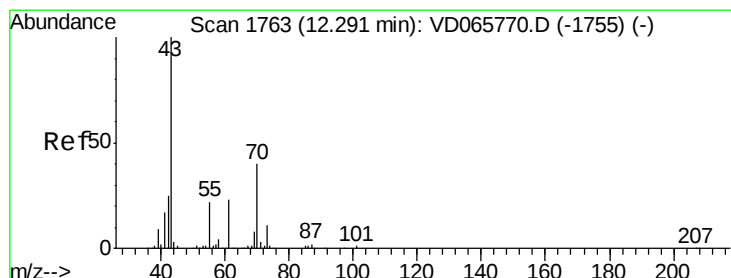
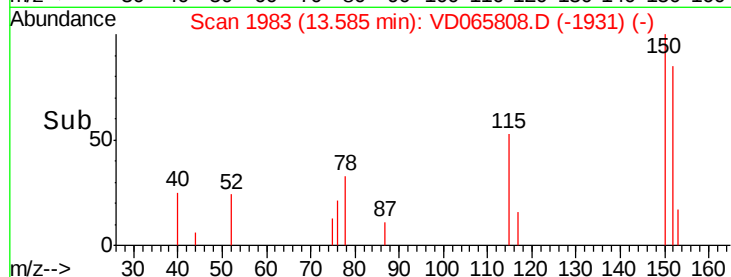
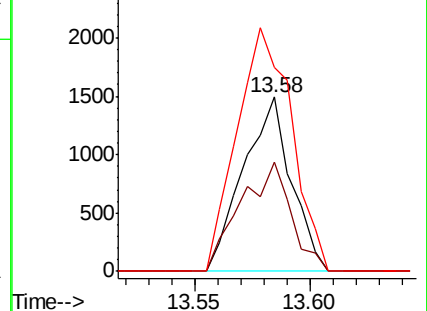
150 159.0 0.0 348.0



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



#74

N-ethyl acetate

Concen: 2.142 ug/l

RT: 12.51 min Scan# 1800

Delta R.T. 0.22 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Tgt Ion: 43 Resp: 69

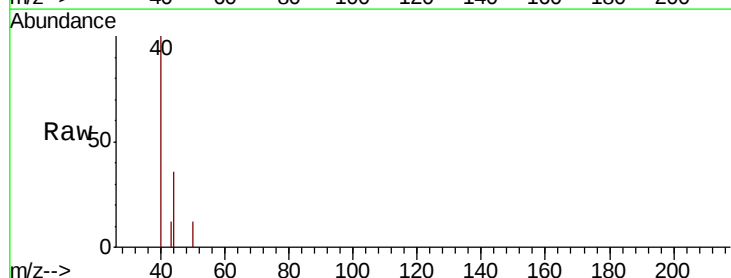
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 19.0 28.4#

61 0.0 19.0 28.4#

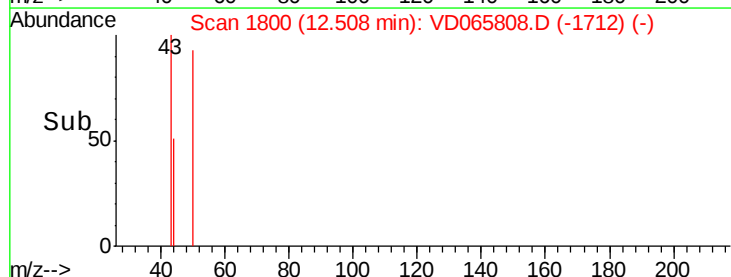
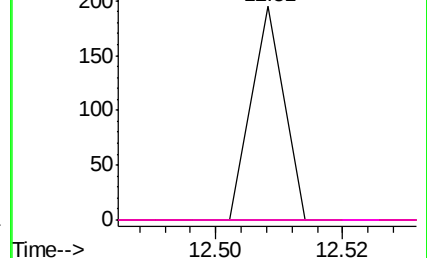


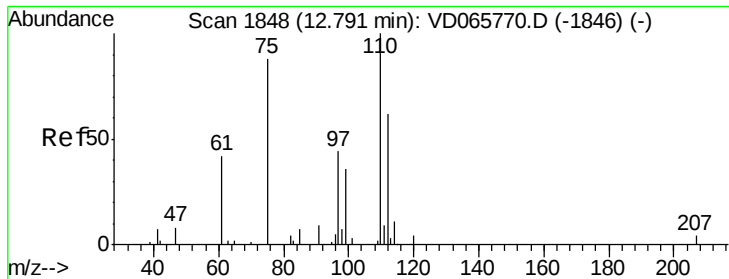
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 66.970 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

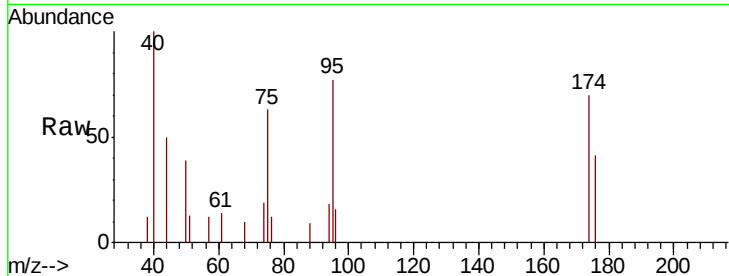
TR-05-061720

Tot Ion: 75 Resp: 1125

Ion Ratio Lower Upper

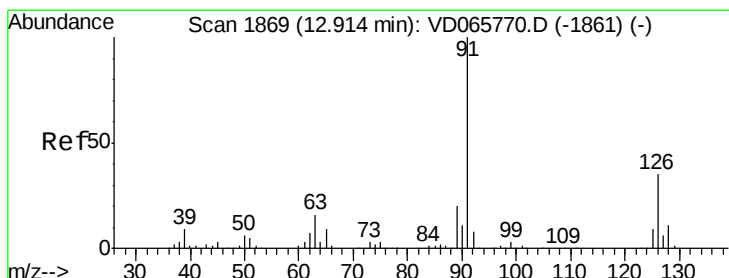
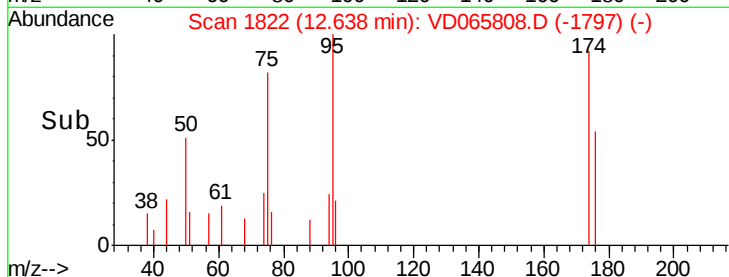
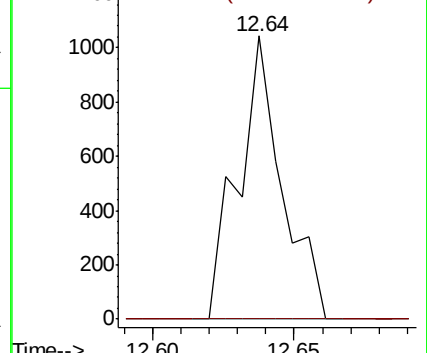
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#79

2-Chlorotoluene

Concen: 1.349 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.09 min

Lab File: VD065808.D

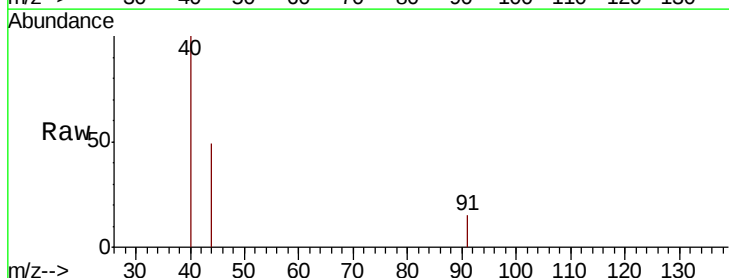
Acq: 18 Jun 2020 15:13

Tgt Ion: 91 Resp: 129

Ion Ratio Lower Upper

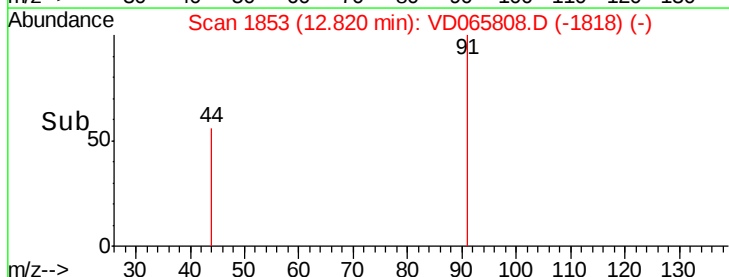
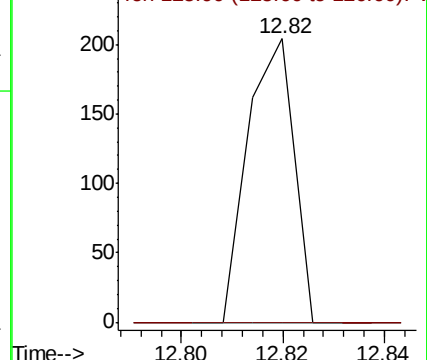
91 100

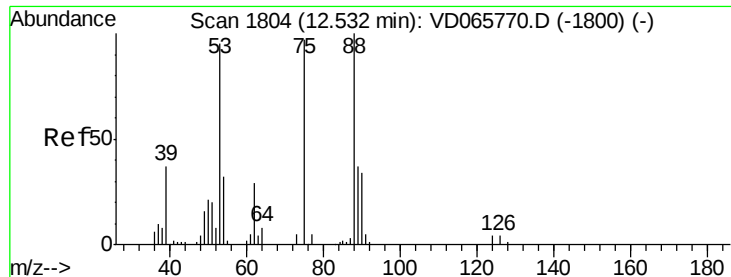
126 0.0 17.5 52.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 144.696 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

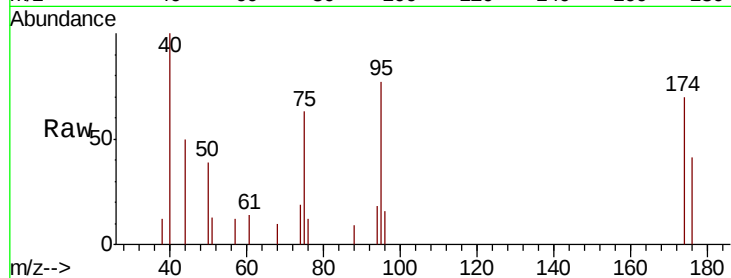
Tot Ion: 75 Resp: 1125

Ion Ratio Lower Upper

75 100

53 0.0 82.6 123.8#

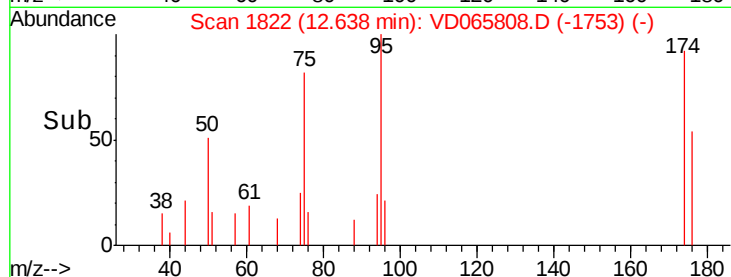
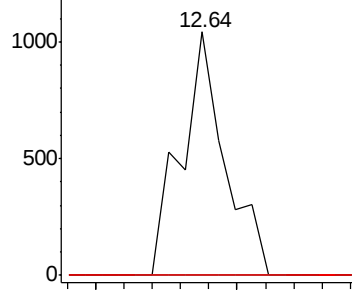
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 1.257 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.19 min

Lab File: VD065808.D

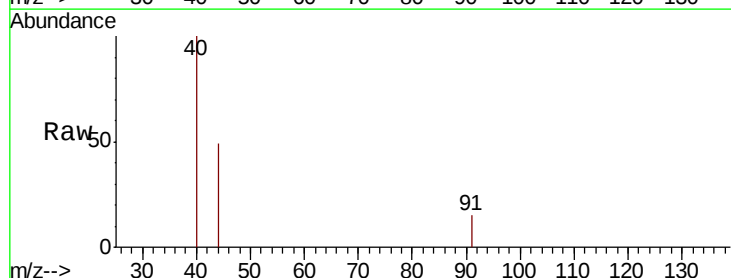
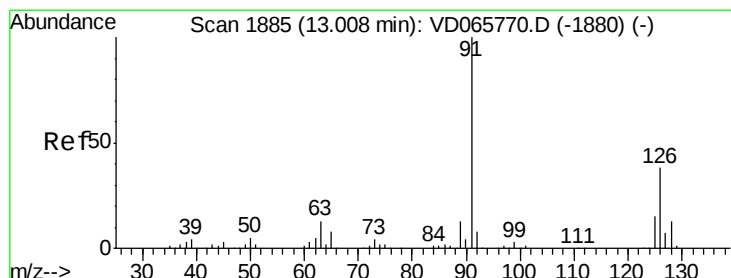
Acq: 18 Jun 2020 15:13

Tgt Ion: 91 Resp: 129

Ion Ratio Lower Upper

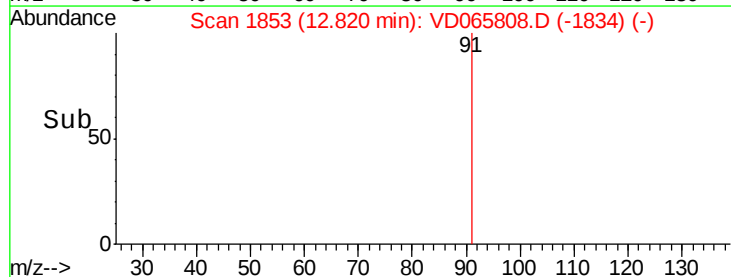
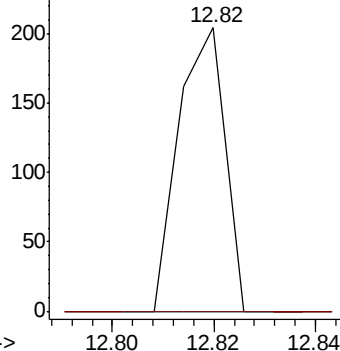
91 100

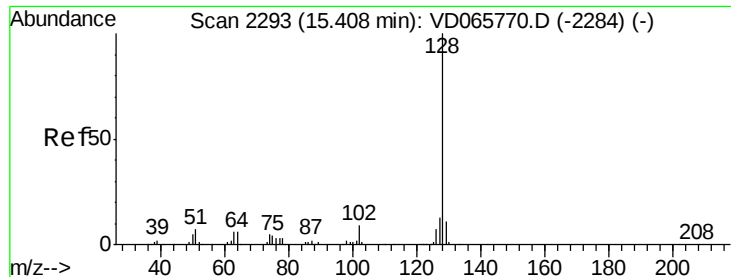
126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): VDC





#95

Naphthalene

Concen: 6.093 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD065808.D

Acq: 18 Jun 2020 15:13

Instrument :

MSVOA_D

ClientSampleId :

TR-05-061720

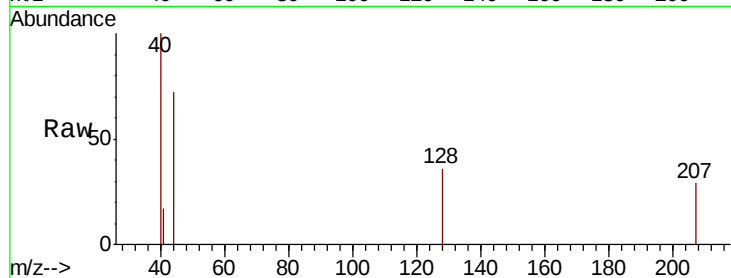
Tot Ion:128 Resp: 408

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

