

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051420\
 Data File : VD065740.D
 Acq On : 14 May 2020 13:55
 Operator : VA/SY
 Sample : L2635-01RE
 Misc : 6.60G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 15 05:57:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D051320S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 13 14:28:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	314702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	469545	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	389272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	157265	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	130736	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
35) Dibromofluoromethane	7.92	113	137766	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
50) Toluene-d8	10.34	98	504631	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.64	95	150772	43.96	ug/l	0.00
Spiked Amount			Recovery	=	87.92%	

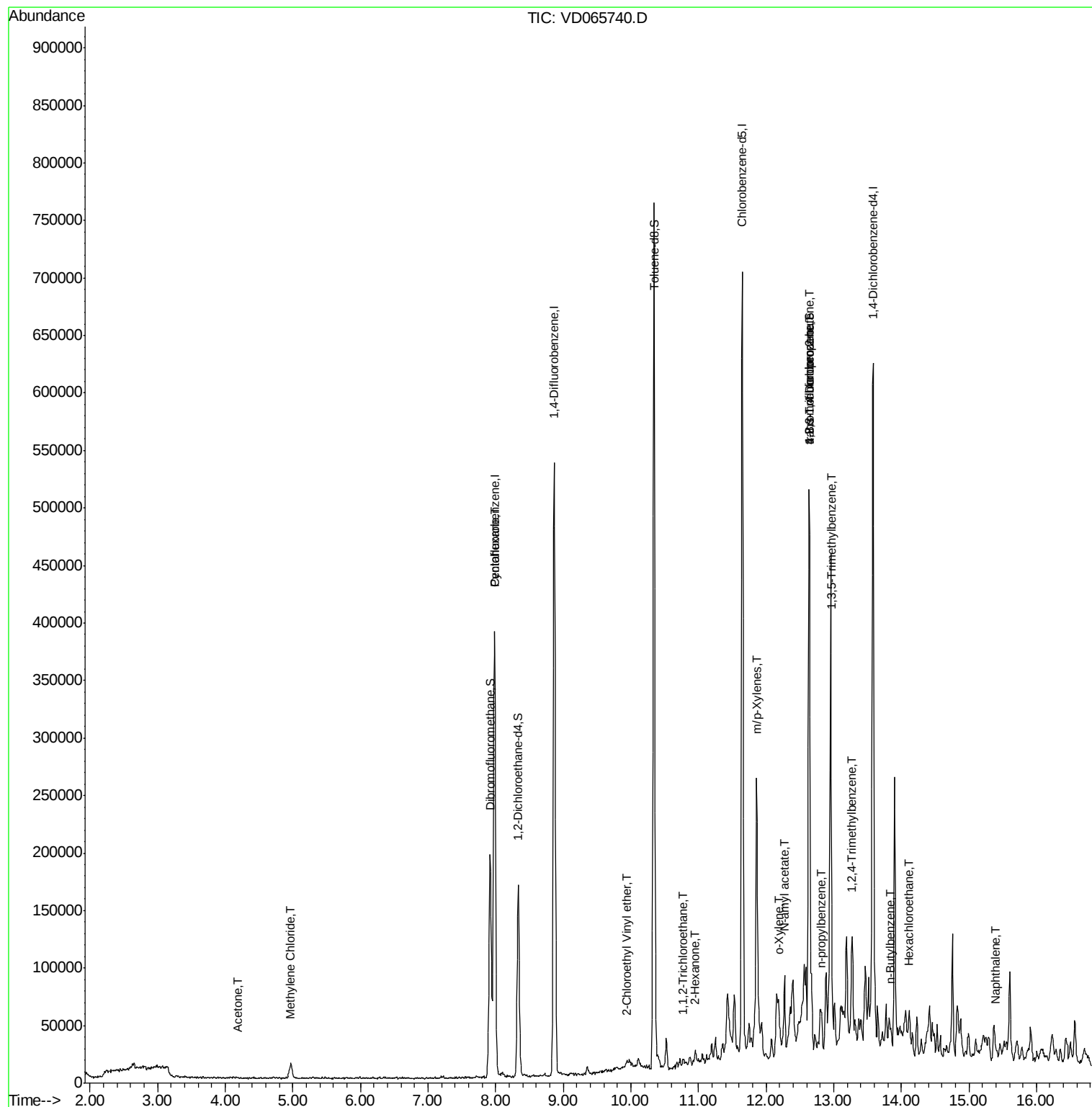
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	54	Below Cal	#	75
13) Acrolein	3.84	56	59	Below Cal	#	13
16) Acetone	4.17	43	1433	2.755	ug/l #	45
18) Methyl Acetate	4.74	43	860	Below Cal	#	52
20) Methylene Chloride	4.96	84	9945	3.389	ug/l #	83
31) Cyclohexane	7.98	56	7308	1.450	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	2788	1.373	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.94	63	2969	2.411	ug/l	91
59) 2-Hexanone	10.96	43	5357	4.748	ug/l #	27
68) m/p-Xylenes	11.86	106	15252	3.053	ug/l	94
69) o-Xylene	12.18	106	9585	2.061	ug/l	95
74) N-amyl acetate	12.27	43	14208	5.796	ug/l #	65
76) 1,2,3-Trichloropropane	12.64	75	76064	64.808	ug/l #	100
78) n-propylbenzene	12.83	91	19229	1.559	ug/l	95
80) 1,3,5-Trimethylbenzene	12.97	105	20677	2.377	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.64	75	76064	127.144	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	53144	6.195	ug/l	98
89) n-Butylbenzene	13.85	91	11158	1.237	ug/l #	72
90) Hexachloroethane	14.13	117	1998	1.059	ug/l #	11
95) Naphthalene	15.41	128	6073	1.163	ug/l #	95

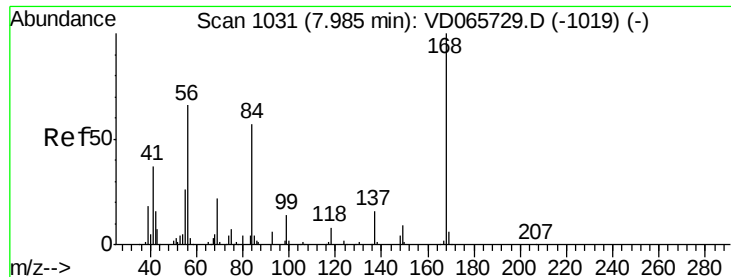
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 14 May 2020 13:55
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D051320S.M
Quant Title : SW846 8260
QLast Update : Wed May 13 14:28:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

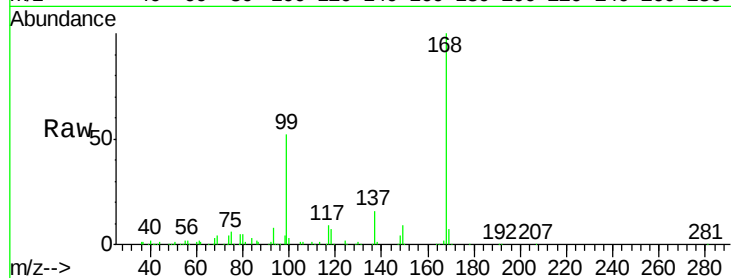
ClientSampleId :

Tot Ion:168 Resp: 314702

Ion Ratio Lower Upper

168 100

99 51.5 40.6 60.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

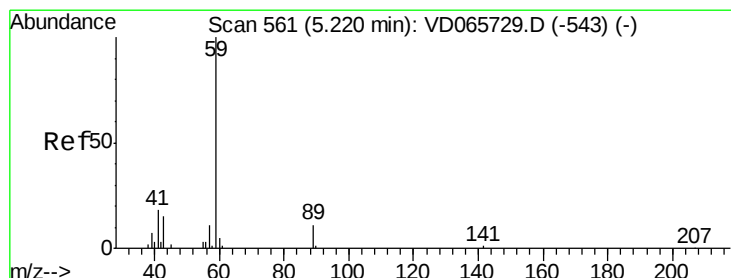
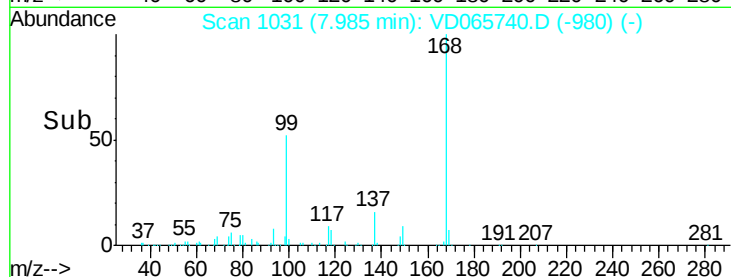
100000

50000

0

7.90 8.00 8.10

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD065740.D

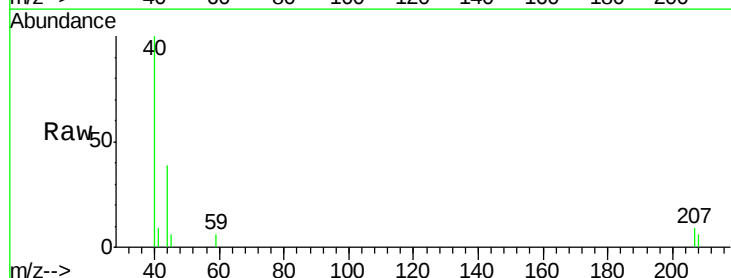
Acq: 14 May 2020 13:55

Tgt Ion: 59 Resp: 54

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.21

150

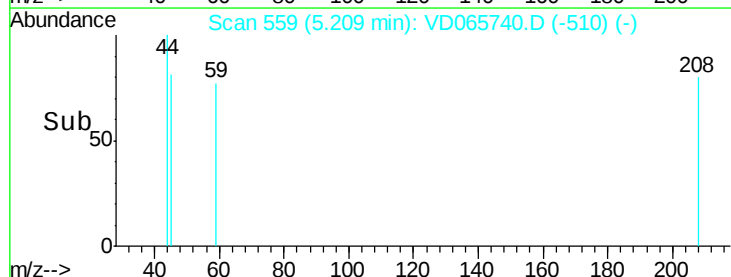
100

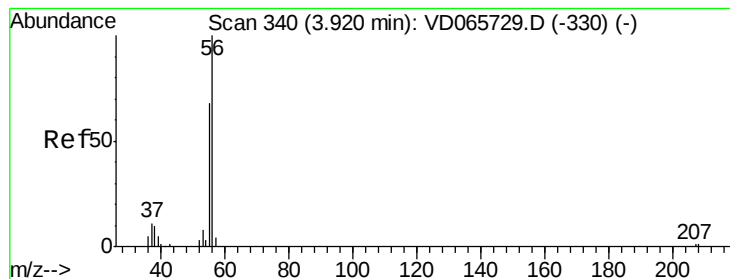
50

0

5.19 5.20 5.21 5.22

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.84 min Scan# 326

Delta R.T. -0.08 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

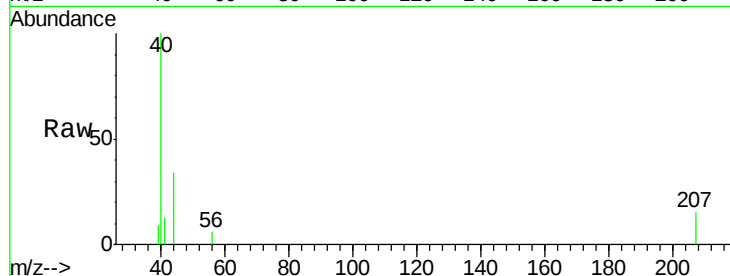
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

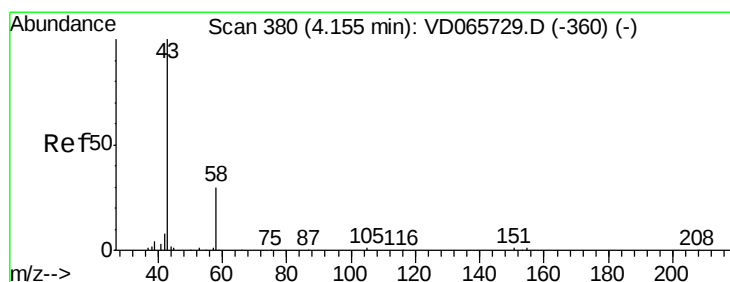
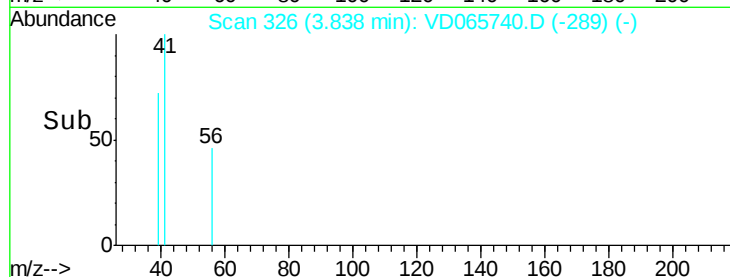
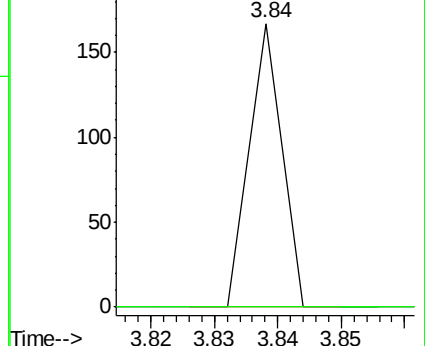
56 100

55 0.0 57.8 86.8#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 2.755 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.02 min

Lab File: VD065740.D

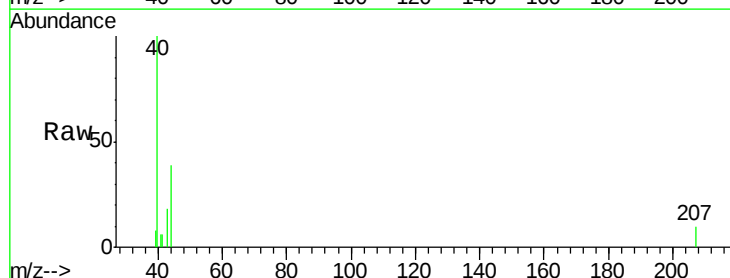
Acq: 14 May 2020 13:55

Tgt Ion: 43 Resp: 1433

Ion Ratio Lower Upper

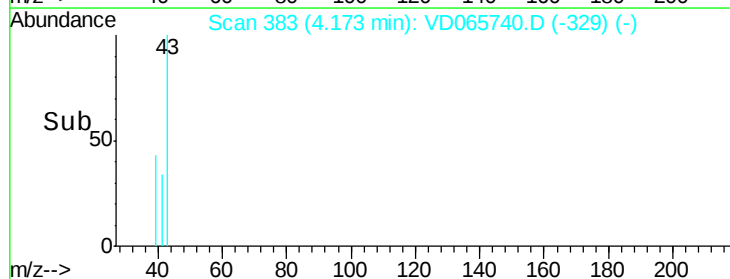
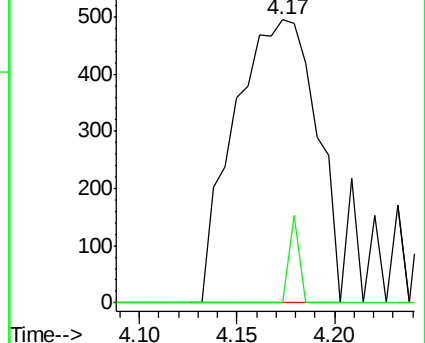
43 100

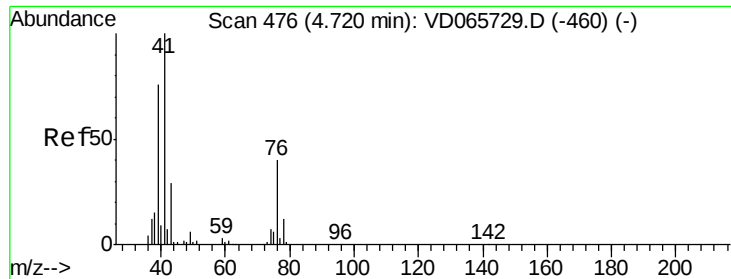
58 0.0 23.7 35.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

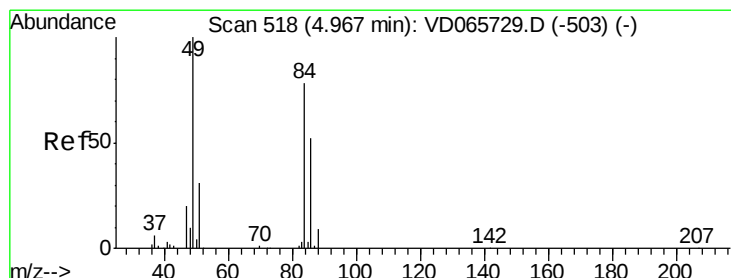
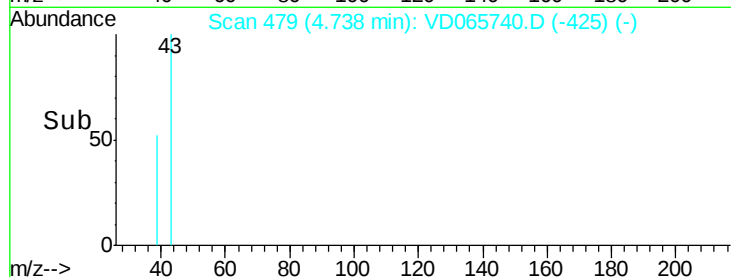
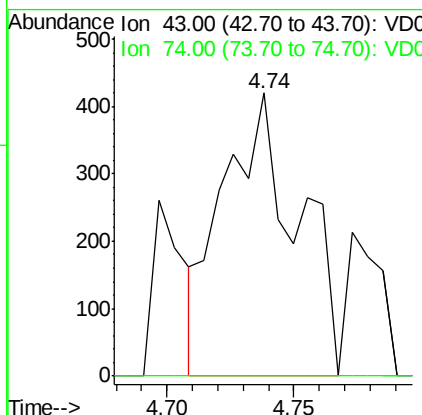
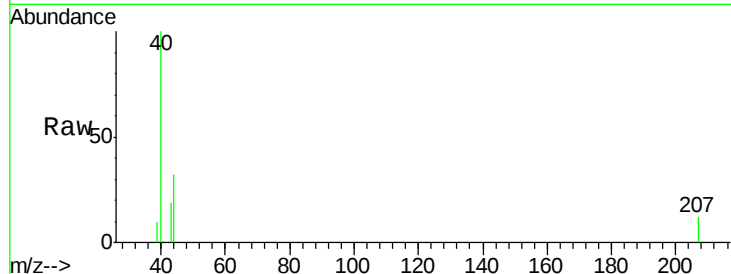




#18
Methyl Acetate
Concen: Below Cal
RT: 4.74 min Scan# 479
Delta R.T. 0.02 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

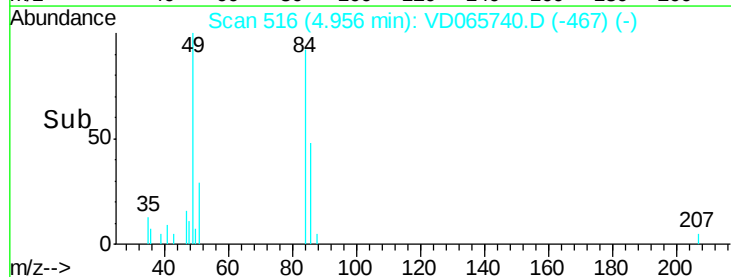
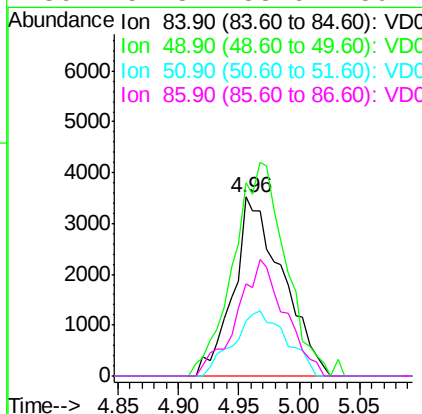
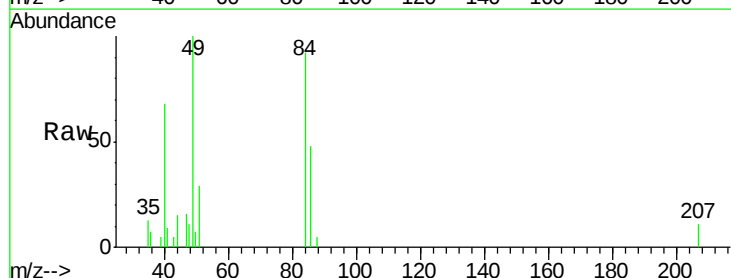
Instrument :
MSVOA_D
ClientSampled :

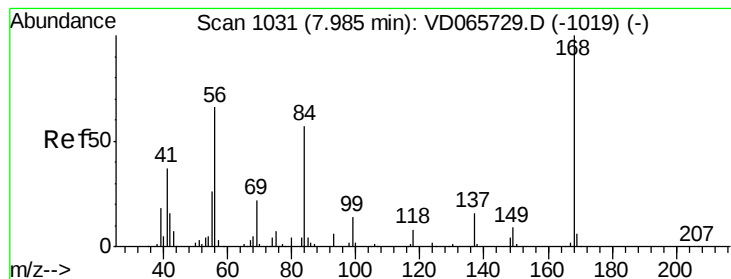
Tot Ion: 43 Resp: 860
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#20
Methylene Chloride
Concen: 3.389 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Tgt Ion: 84 Resp: 9945
Ion Ratio Lower Upper
84 100
49 108.3 102.9 154.3
51 31.1 31.5 47.3#
86 51.8 53.6 80.4#





#31

Cyclohexane

Concen: 1.450 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

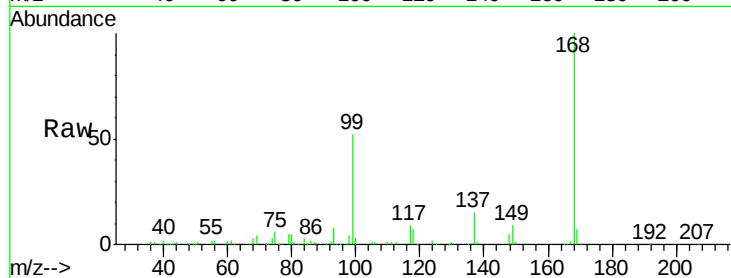
Tot Ion: 56 Resp: 7308

Ion Ratio Lower Upper

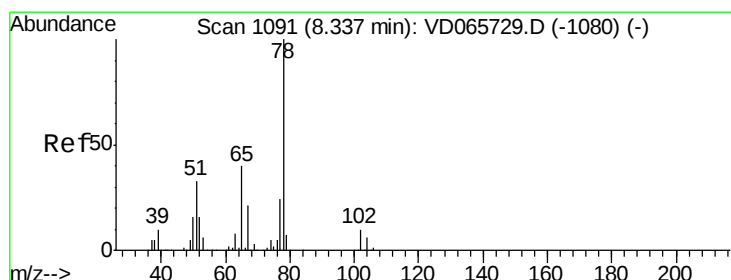
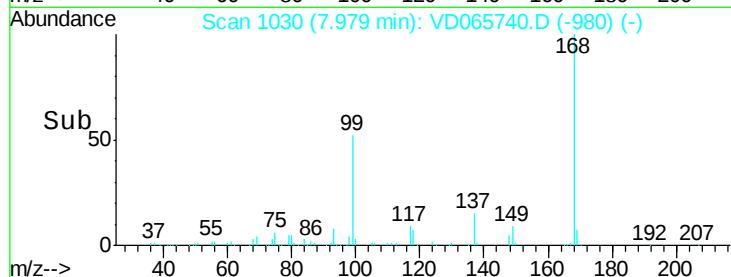
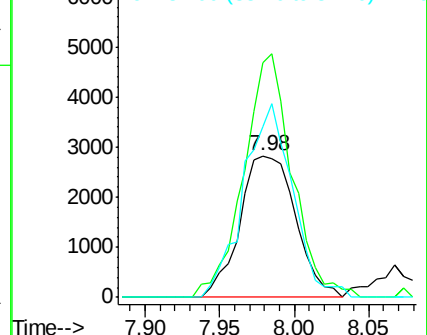
56 100

69 165.5 25.9 38.9#

84 133.8 69.1 103.7#



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: 51.551 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065740.D

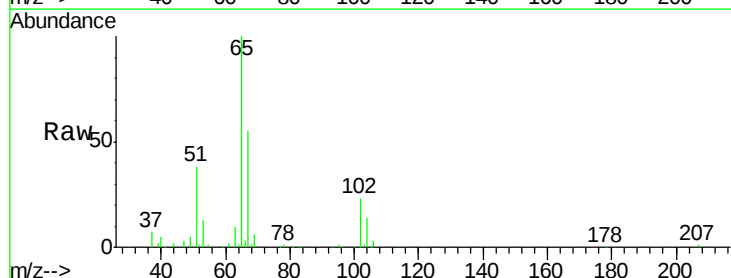
Acq: 14 May 2020 13:55

Tgt Ion: 65 Resp: 130736

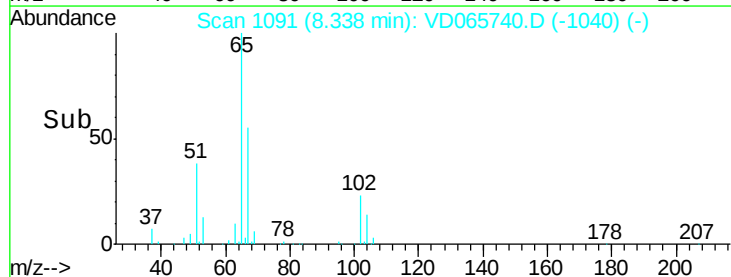
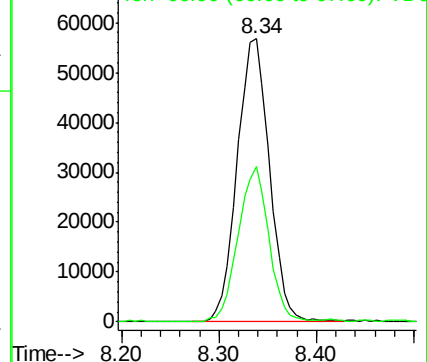
Ion Ratio Lower Upper

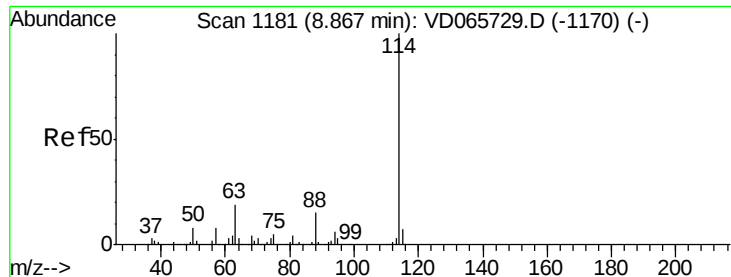
65 100

67 52.2 0.0 106.2



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

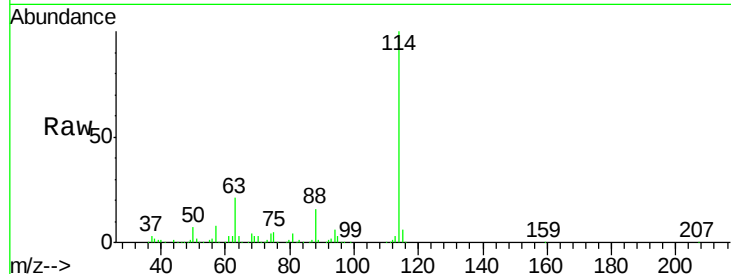




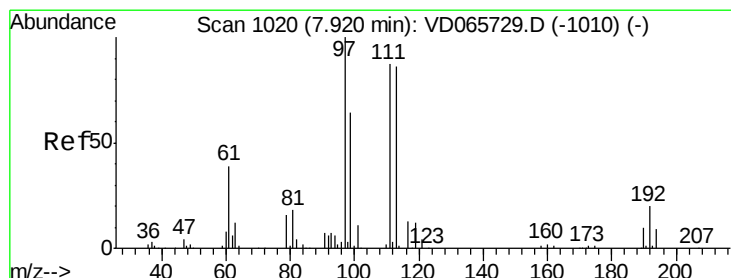
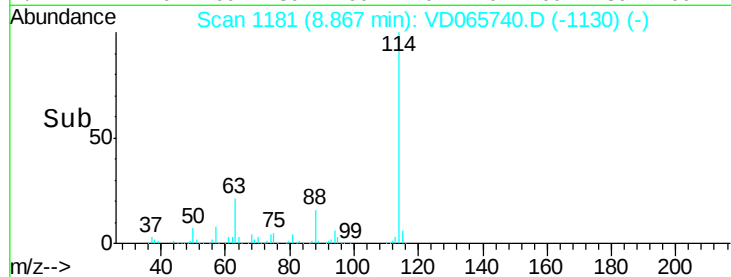
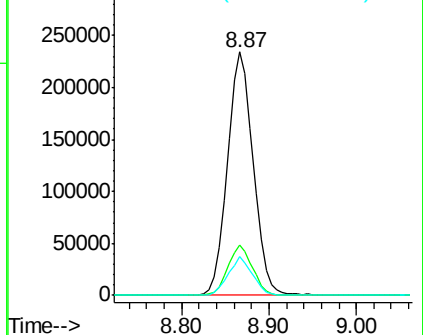
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065740.D
 Acq: 14 May 2020 13:55

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	37.2
88	15.7	0.0	30.2

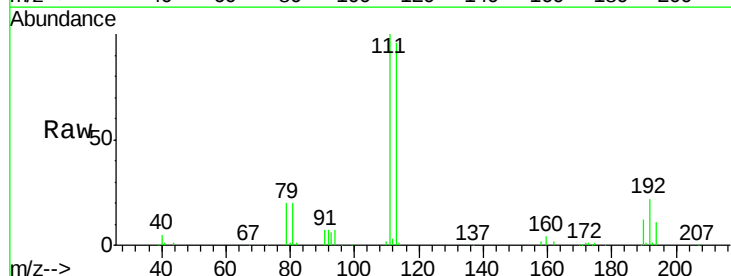


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

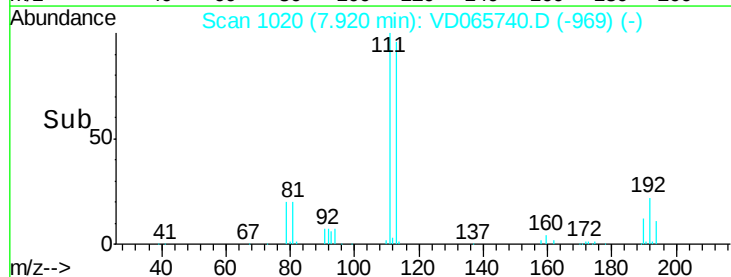
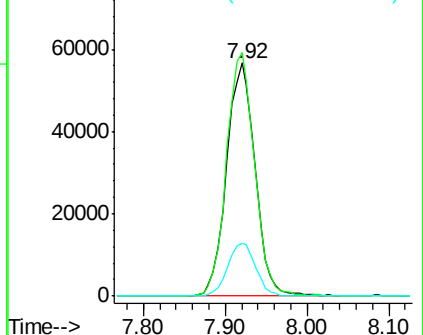


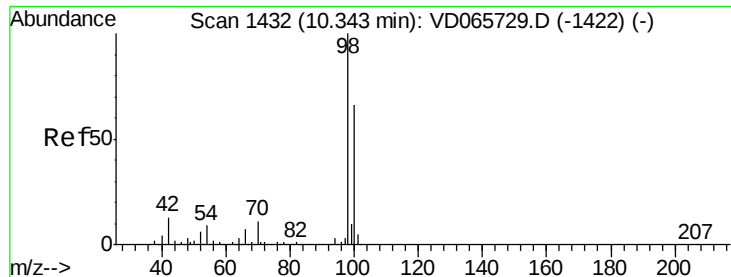
#35
 Dibromofluoromethane
 Concen: 51.790 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065740.D
 Acq: 14 May 2020 13:55

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.1	121.7
192	22.1	17.6	26.4



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





#50

Toluene-d8

Concen: 49.829 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

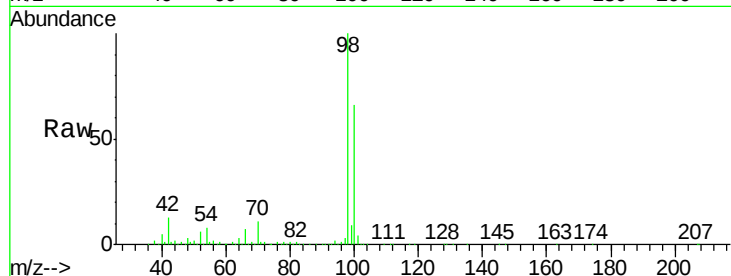
ClientSampleId :

Tot Ion: 98 Resp: 504631

Ion Ratio Lower Upper

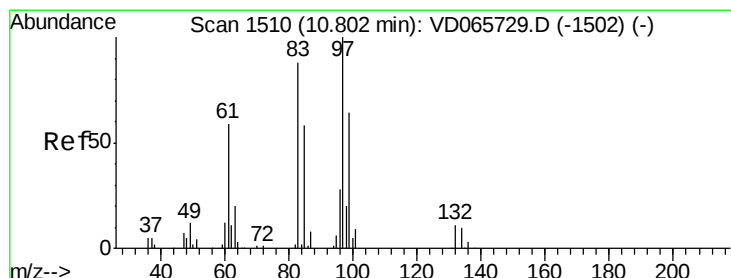
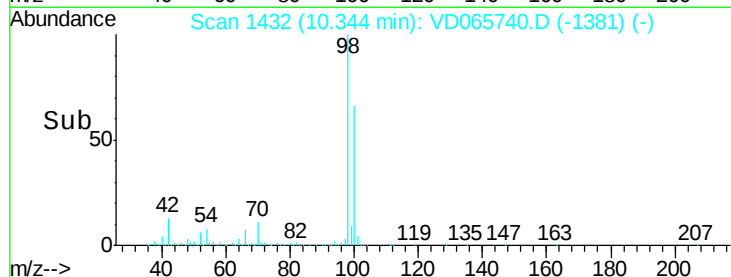
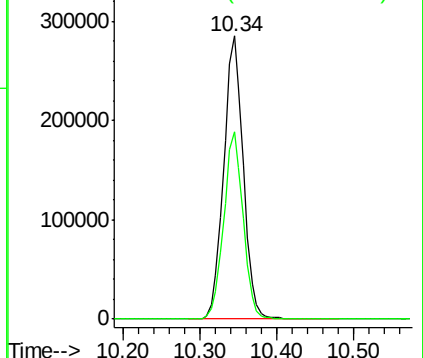
98 100

100 65.5 52.5 78.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.373 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Tgt Ion: 97 Resp: 2788

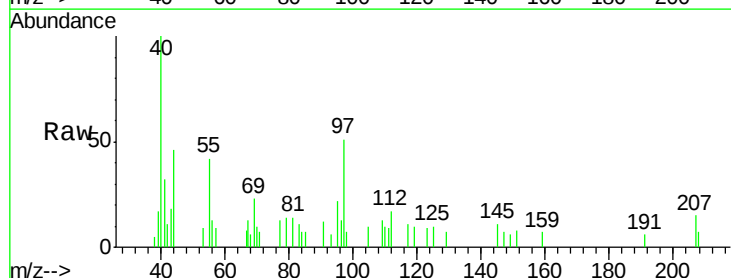
Ion Ratio Lower Upper

97 100

83 1.7 70.7 106.1#

85 1.7 46.8 70.2#

99 0.0 50.9 76.3#

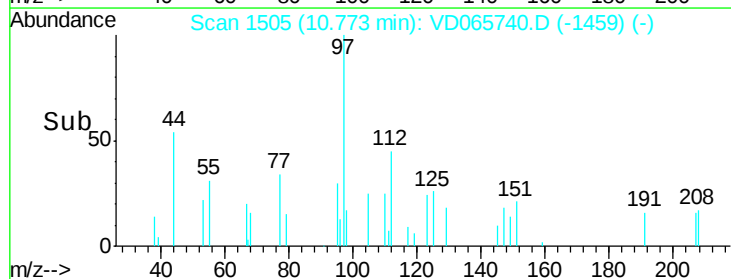
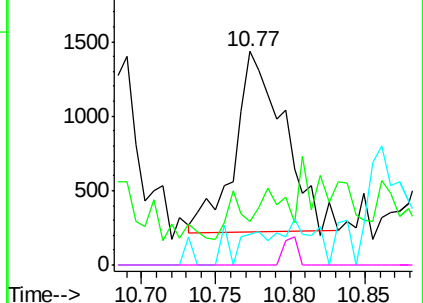


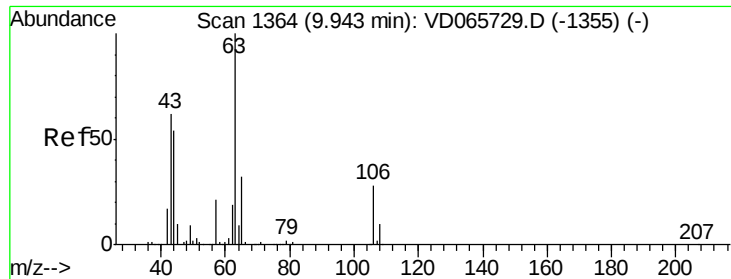
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

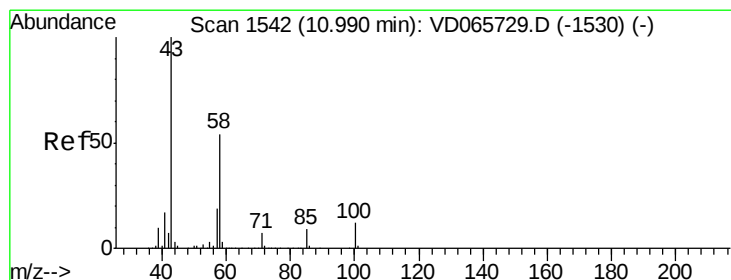
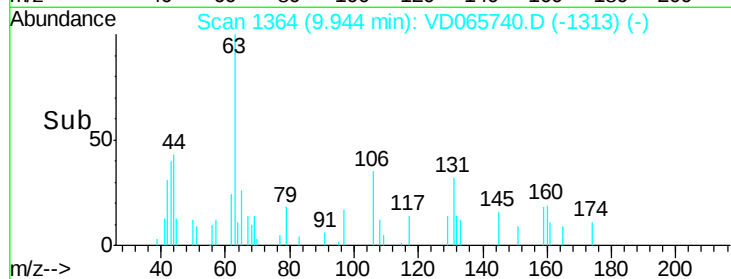
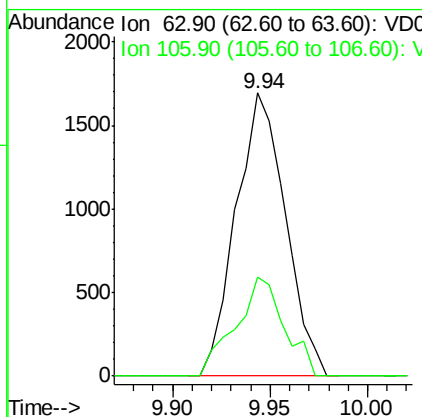
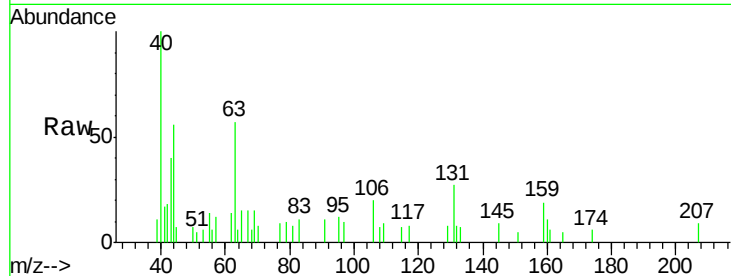




#58
2-Chloroethyl Vinyl ether
Concen: 2.411 ug/l
RT: 9.94 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

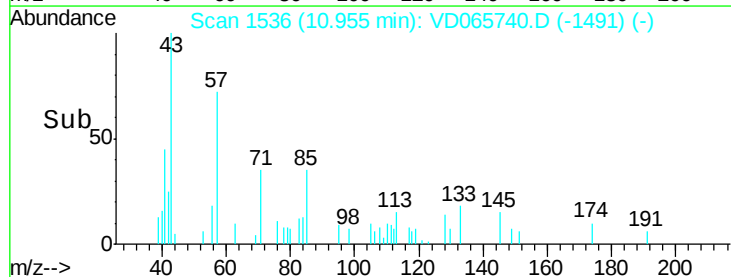
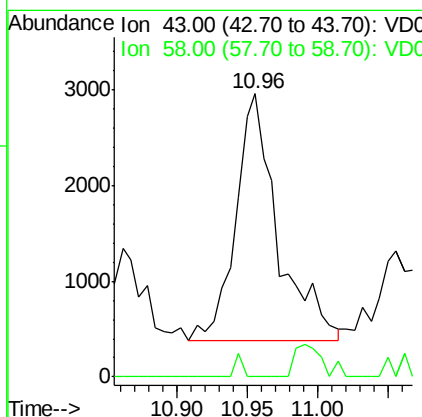
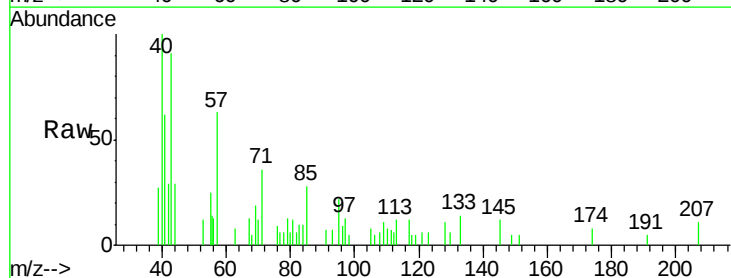
Instrument :
MSVOA_D
ClientSampleId :

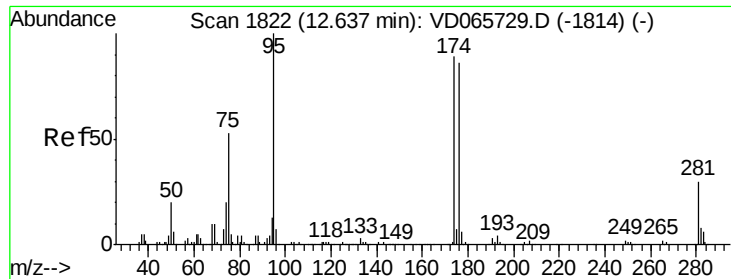
Tot Ion: 63 Resp: 2969
Ion Ratio Lower Upper
63 100
106 34.3 23.5 35.3



#59
2-Hexanone
Concen: 4.748 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.03 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Tgt Ion: 43 Resp: 5357
Ion Ratio Lower Upper
43 100
58 1.6 26.7 80.1#

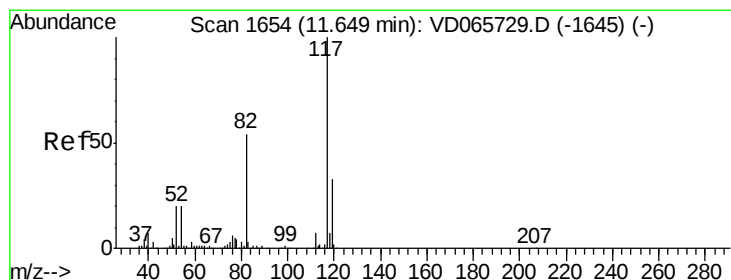
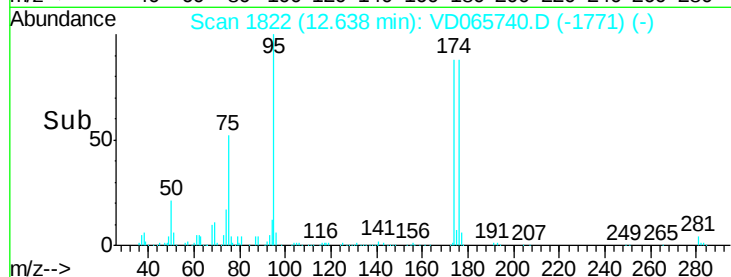
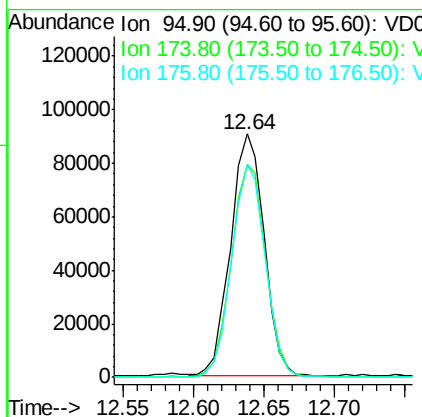
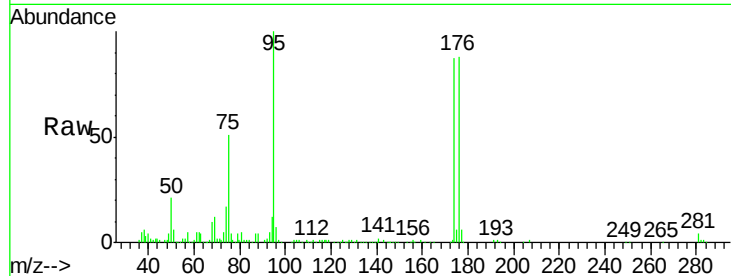




#62
4-Bromofluorobenzene
Concen: 43.960 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

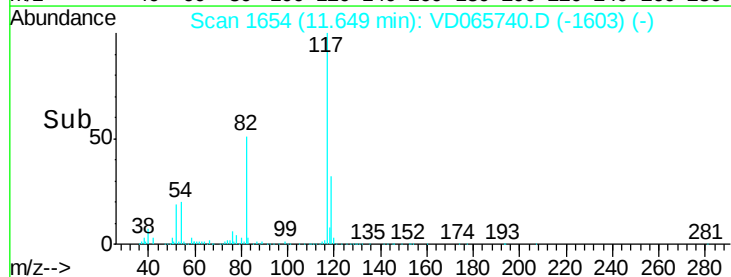
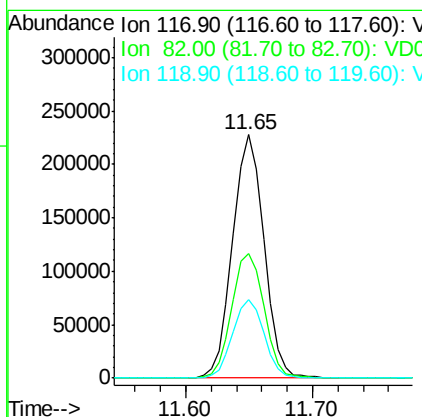
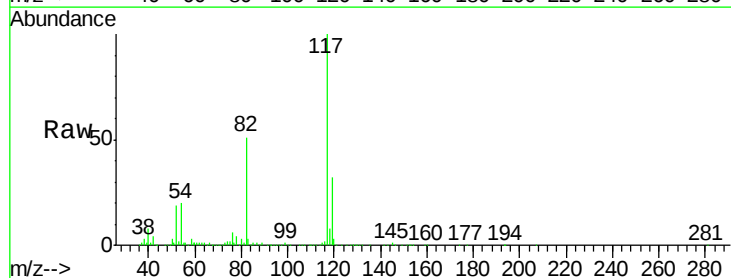
Instrument :
MSVOA_D
ClientSampleId :

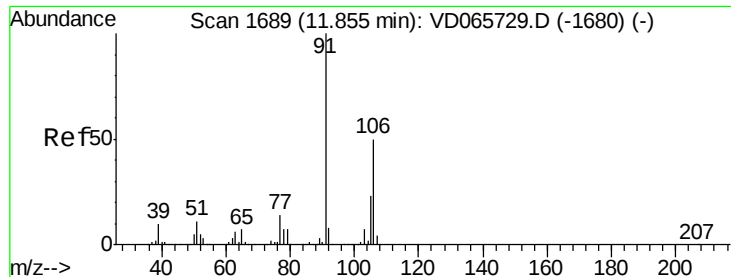
Tot Ion: 95 Resp: 150772
Ion Ratio Lower Upper
95 100
174 90.3 0.0 179.4
176 87.3 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Tgt Ion: 117 Resp: 389272
Ion Ratio Lower Upper
117 100
82 51.3 43.0 64.6
119 32.4 26.6 40.0

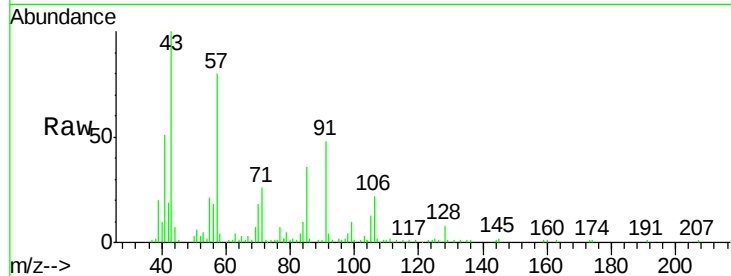




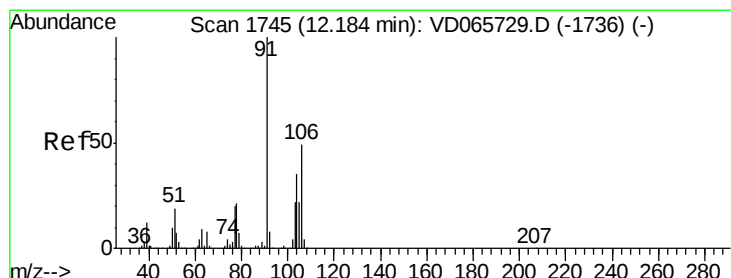
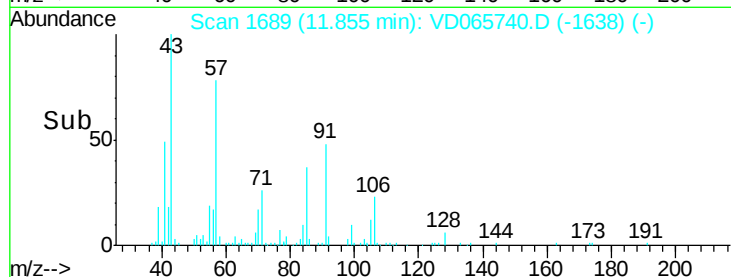
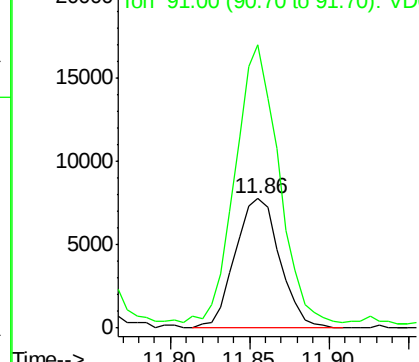
#68
m/p-Xylenes
Concen: 3.053 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 15252
Ion Ratio Lower Upper
106 100
91 206.9 158.7 238.1

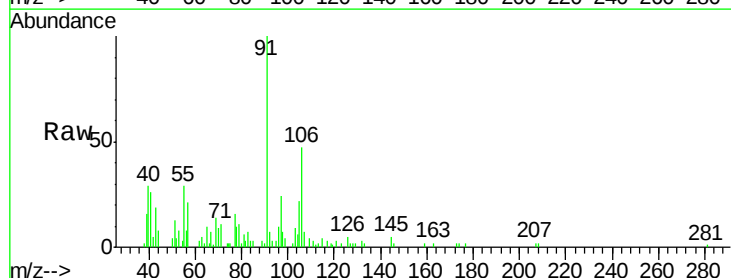


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC

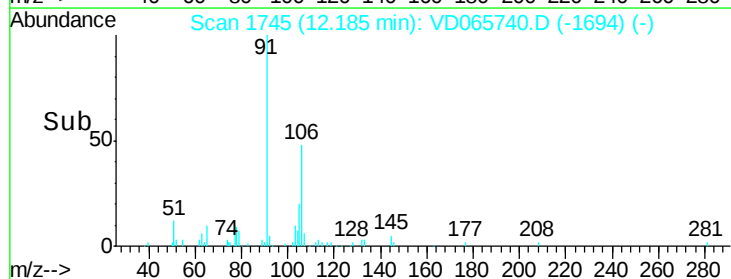
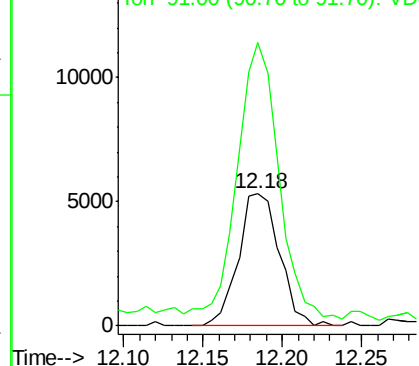


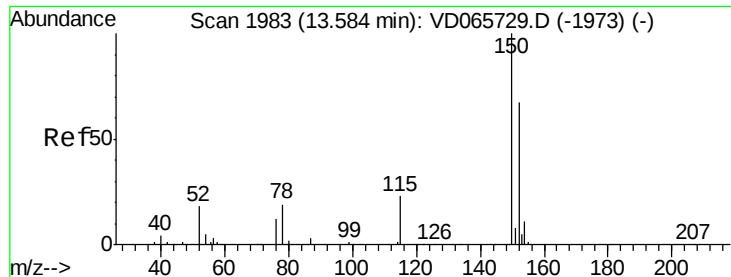
#69
o-Xylene
Concen: 2.061 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Tgt Ion:106 Resp: 9585
Ion Ratio Lower Upper
106 100
91 210.7 101.8 305.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

ClientSampleId :

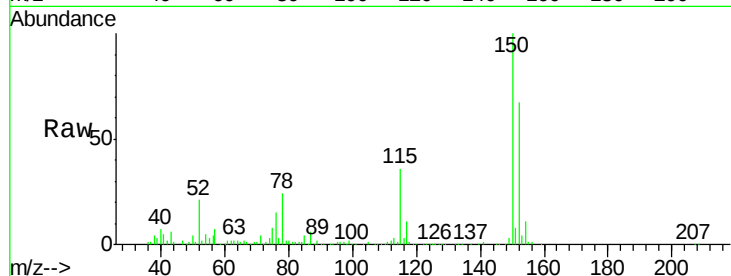
Tot Ion:152 Resp: 157265

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.3

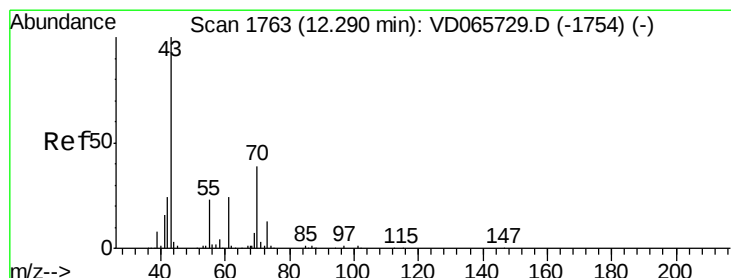
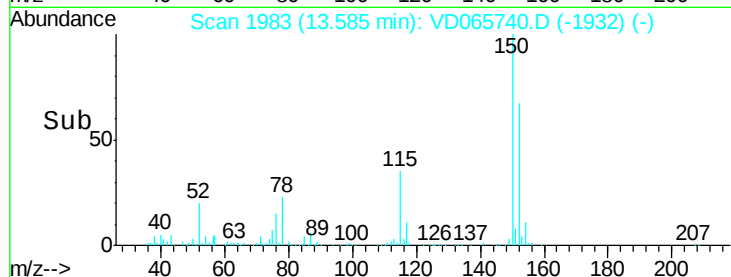
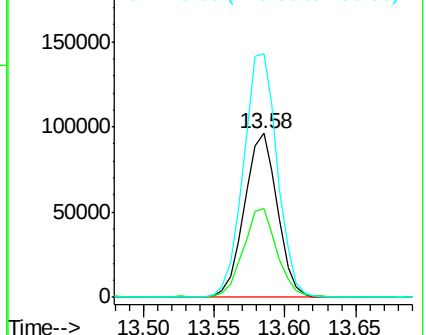
150 152.7 0.0 343.2



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: 5.796 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Tgt Ion: 43 Resp: 14208

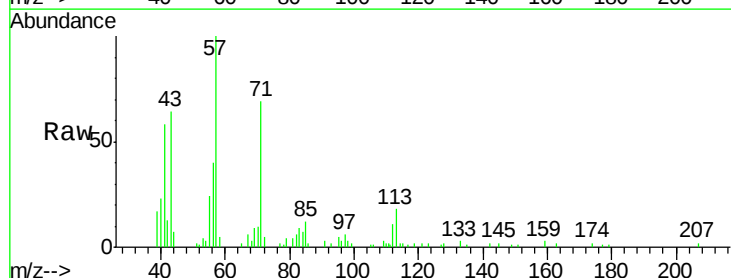
Ion Ratio Lower Upper

43 100

70 16.3 31.8 47.6#

55 14.4 17.9 26.9#

61 0.0 19.0 28.6#

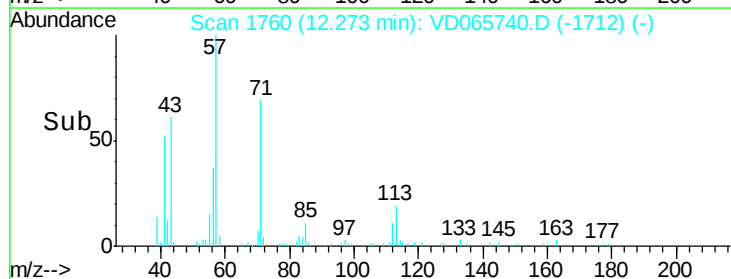
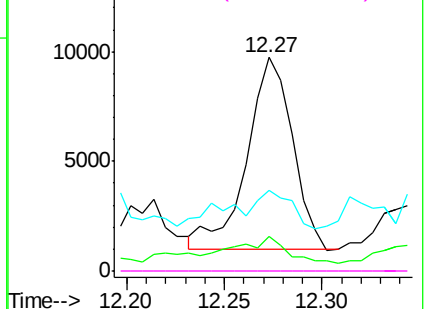


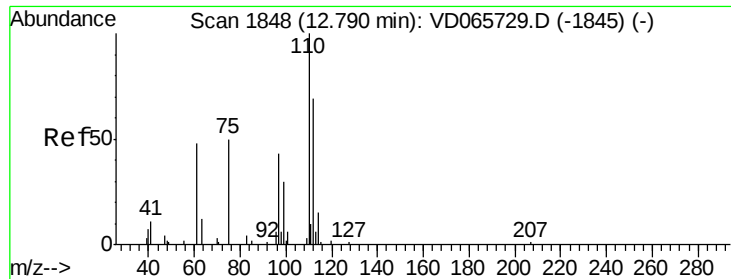
Abundance Ion 43.00 (42.70 to 43.70): VDC

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: 64.808 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

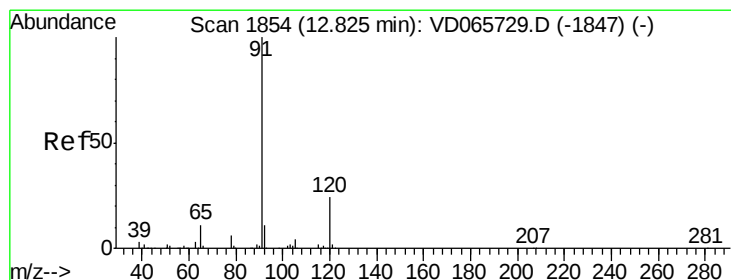
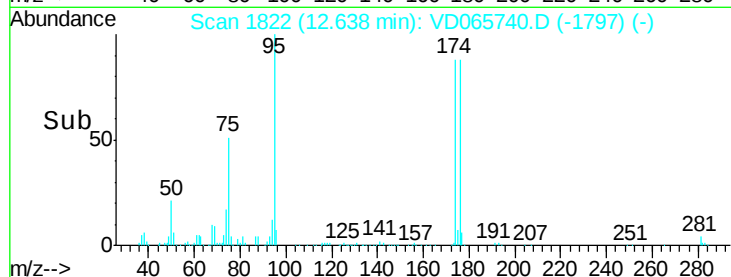
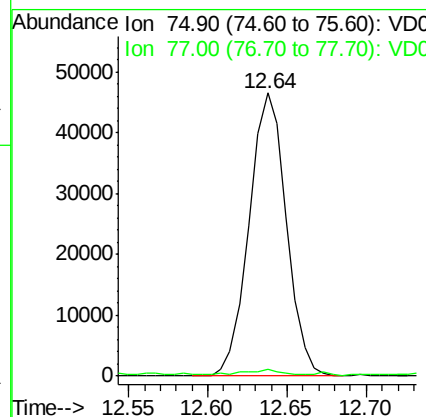
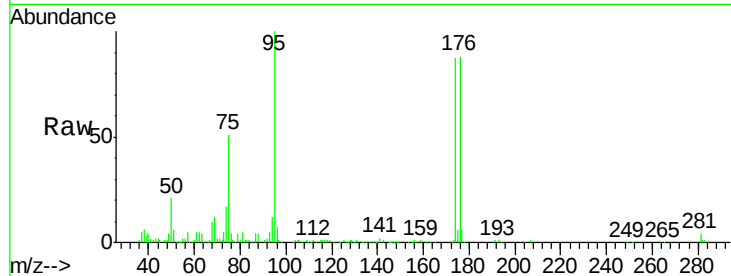
ClientSampleId :

Tot Ion: 75 Resp: 76064

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#78

n-propylbenzene

Concen: 1.559 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065740.D

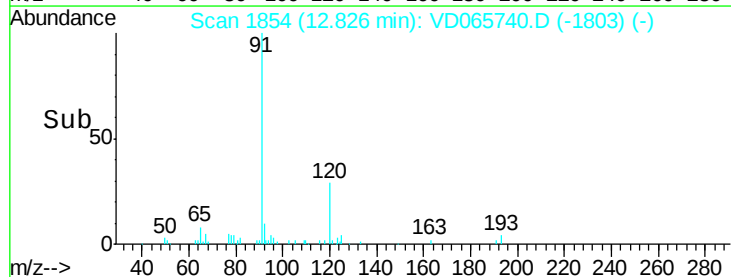
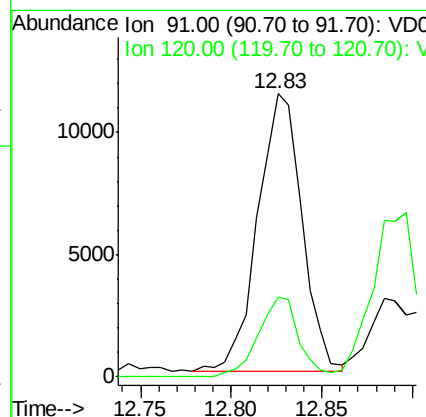
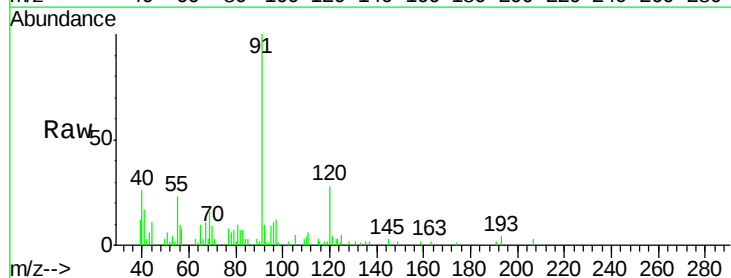
Acq: 14 May 2020 13:55

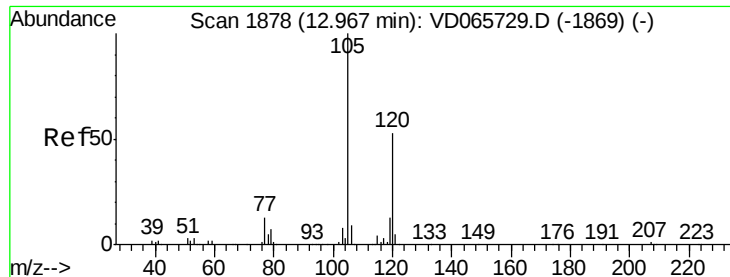
Tgt Ion: 91 Resp: 19229

Ion Ratio Lower Upper

91 100

120 26.3 11.9 35.5

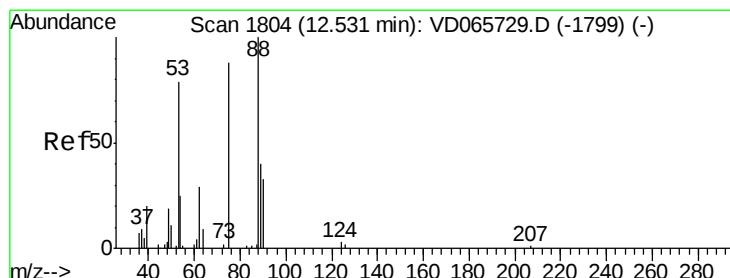
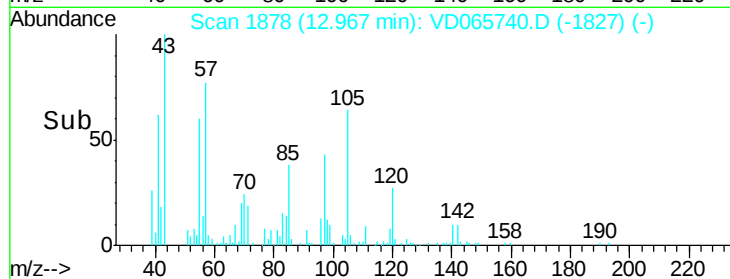
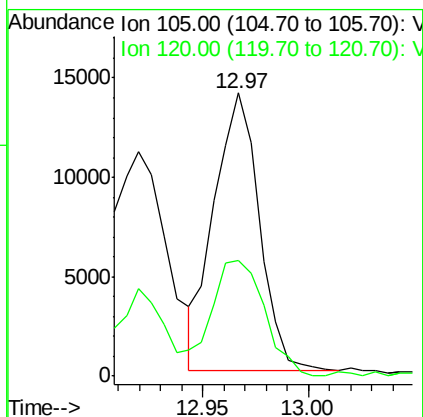
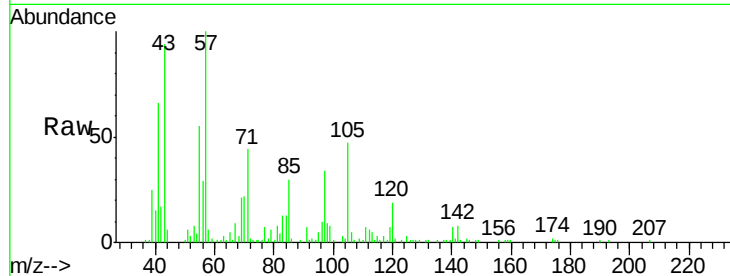




#80
 1,3,5-Trimethylbenzene
 Concen: 2.377 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065740.D
 Acq: 14 May 2020 13:55

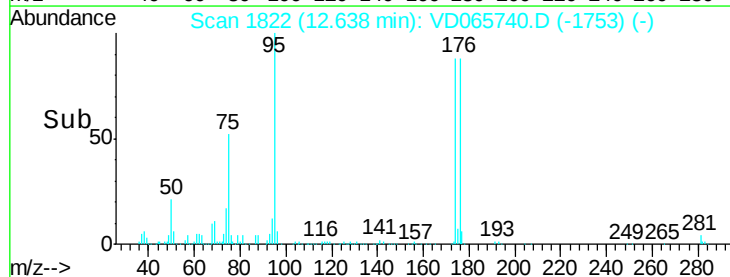
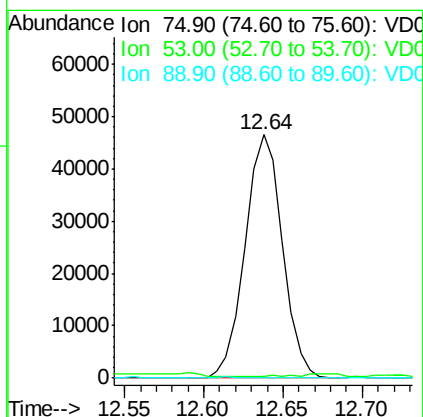
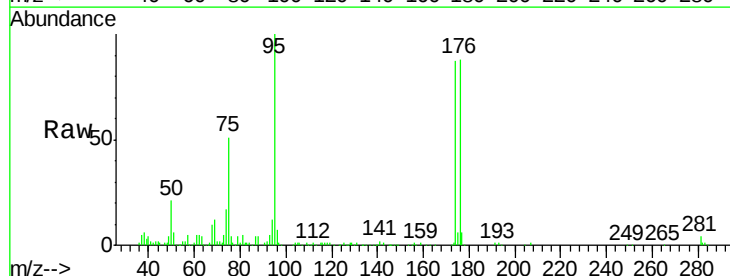
Instrument :
 MSVOA_D
 ClientSampleId :

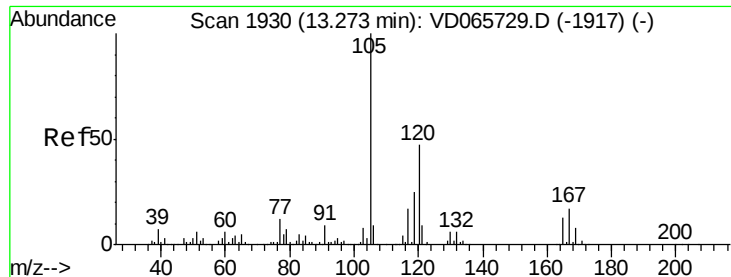
Tot Ion:105 Resp: 20677
 Ion Ratio Lower Upper
 105 100
 120 48.2 25.7 77.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.144 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD065740.D
 Acq: 14 May 2020 13:55

Tgt Ion: 75 Resp: 76064
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.6 109.0#
 89 0.1 37.0 55.4#





#84

1,2,4-Trimethylbenzene

Concen: 6.195 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

Instrument :

MSVOA_D

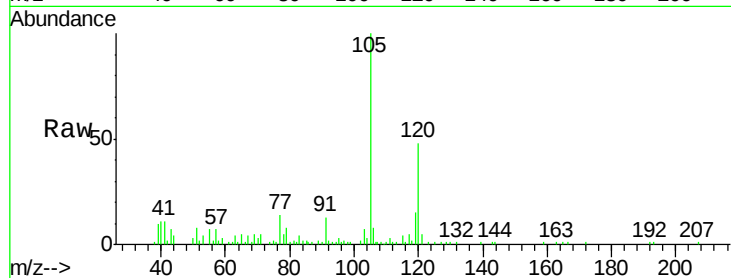
ClientSampleId :

Tot Ion:105 Resp: 53144

Ion Ratio Lower Upper

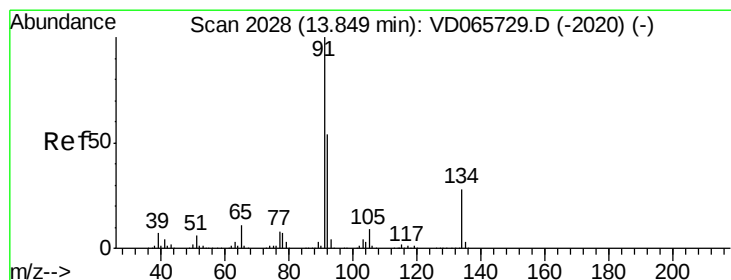
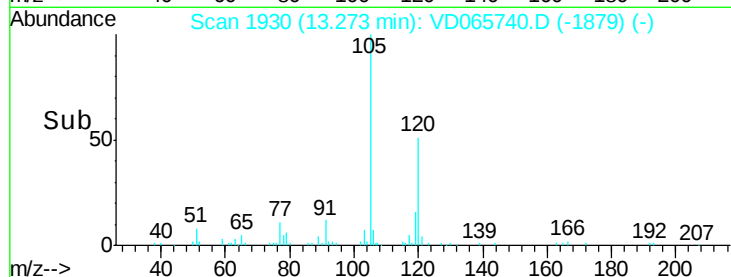
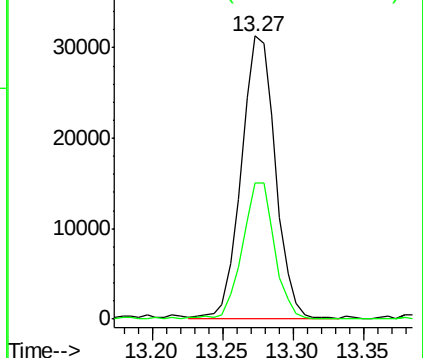
105 100

120 45.7 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#89

n-Butylbenzene

Concen: 1.237 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD065740.D

Acq: 14 May 2020 13:55

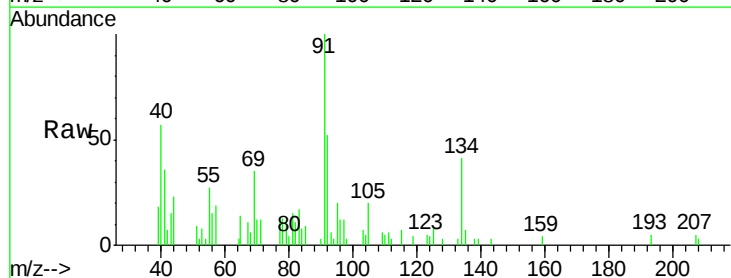
Tgt Ion: 91 Resp: 11158

Ion Ratio Lower Upper

91 100

92 43.6 27.0 81.0

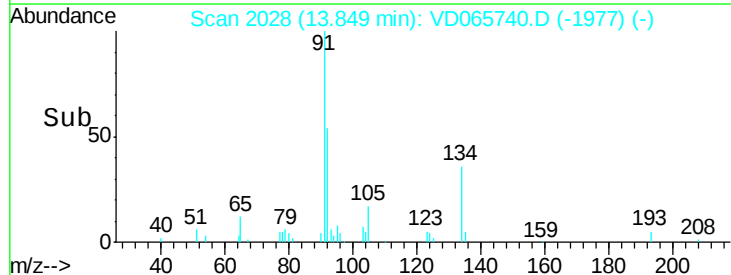
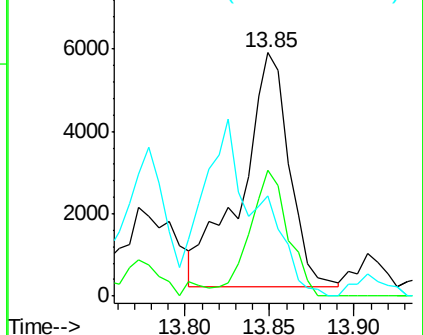
134 0.0 13.9 41.7#

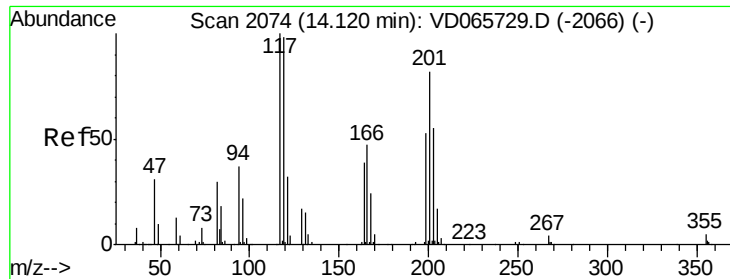


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): V

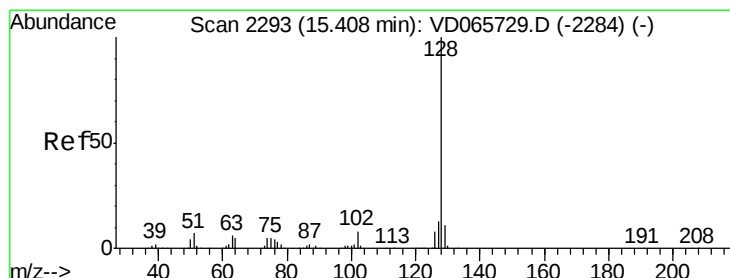
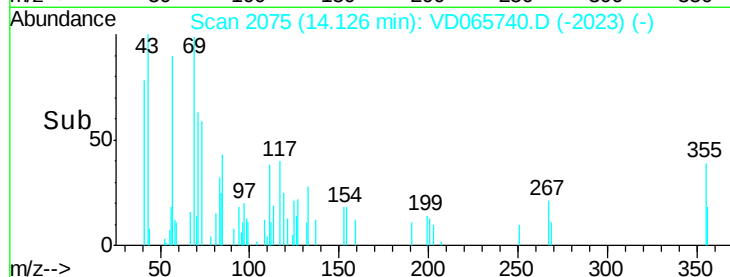
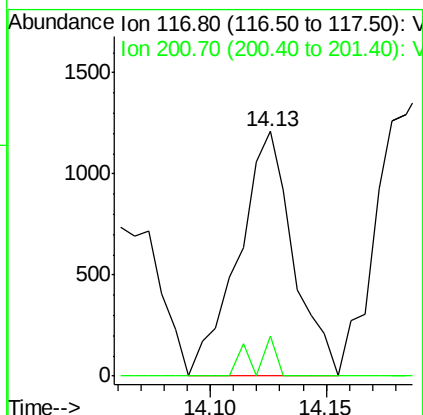
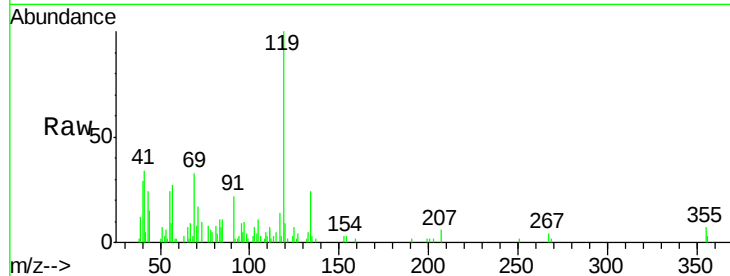




#90
Hexachloroethane
Concen: 1.059 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1998
Ion Ratio Lower Upper
117 100
201 2.8 41.8 125.4#



#95
Naphthalene
Concen: 1.163 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD065740.D
Acq: 14 May 2020 13:55

Tgt Ion:128 Resp: 6073
Ion Ratio Lower Upper
128 100
127 13.5 10.2 15.2
129 14.5 8.8 13.2#

