

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD013020\
 Data File : VD065007.D
 Acq On : 30 Jan 2020 12:24
 Operator : VA/SY
 Sample : L1004-16
 Misc : 5.33G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-01-012920

Quant Time: Jan 30 12:41:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	556091	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	867460	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	834394	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	385808	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	267470	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
35) Dibromofluoromethane	7.92	113	269671	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	10.34	98	1044308	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.64	95	352102	54.69	ug/l	0.00
Spiked Amount			Recovery	=	109.38%	

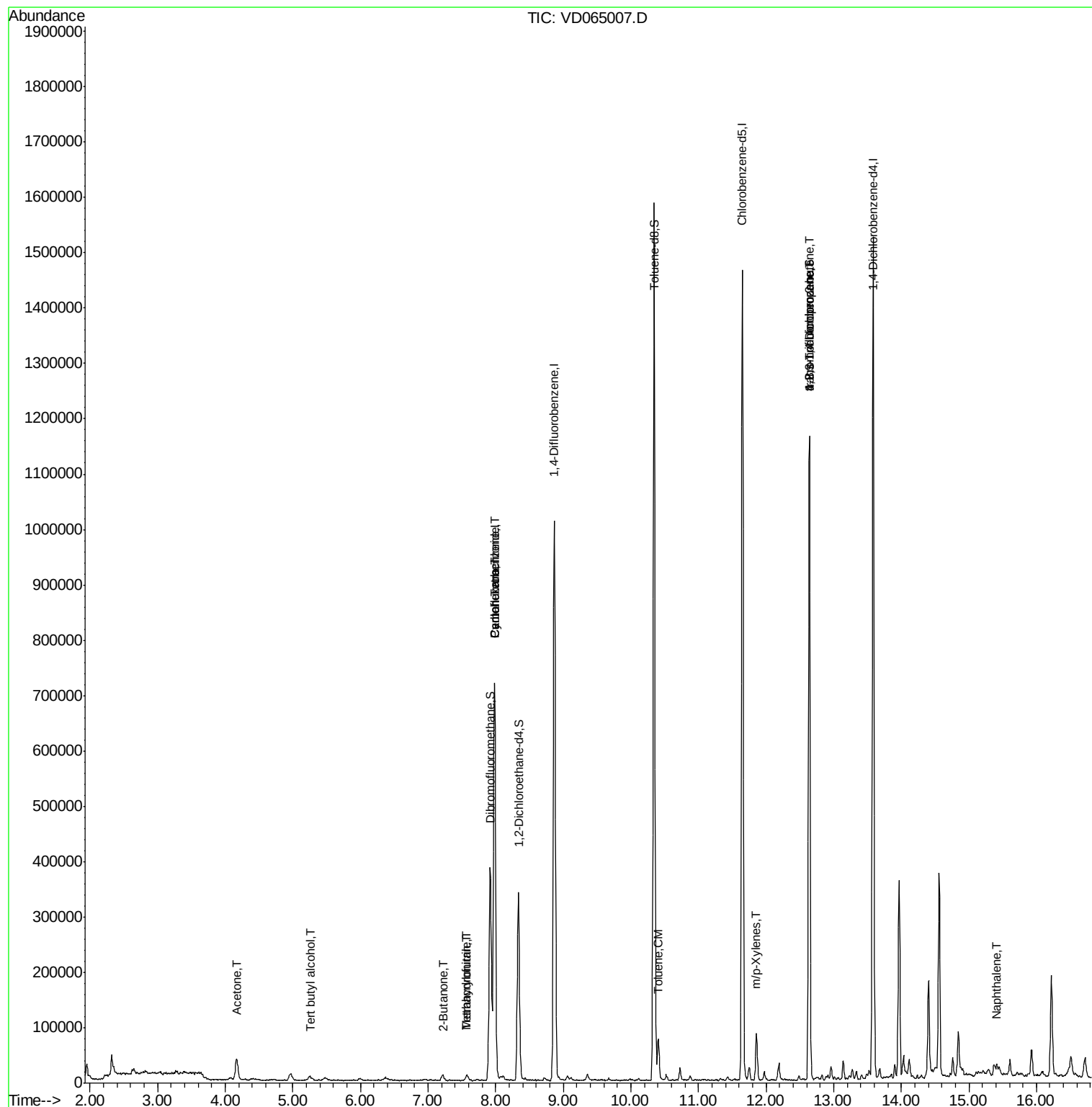
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	10007	33.95	ug/l	98
16) Acetone	4.17	43	70565	59.83	ug/l	91
20) Methylene Chloride	4.97	84	9946	Below Cal	#	81
25) 2-Butanone	7.24	43	3134	2.17	ug/l #	84
29) Tetrahydrofuran	7.58	42	7715	8.68	ug/l	94
31) Cyclohexane	7.98	56	14003	1.51	ug/l #	23
38) Carbon Tetrachloride	7.98	117	53602	6.06	ug/l #	18
41) Methacrylonitrile	7.57	41	5124	2.75	ug/l #	54
52) Toluene	10.41	92	29440	1.98	ug/l	97
68) m/p-Xylenes	11.86	106	24521	2.12	ug/l	92
76) 1,2,3-Trichloropropane	12.64	75	189184	59.08	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	189184	126.15	ug/l #	9
95) Naphthalene	15.42	128	17260	1.47	ug/l #	94

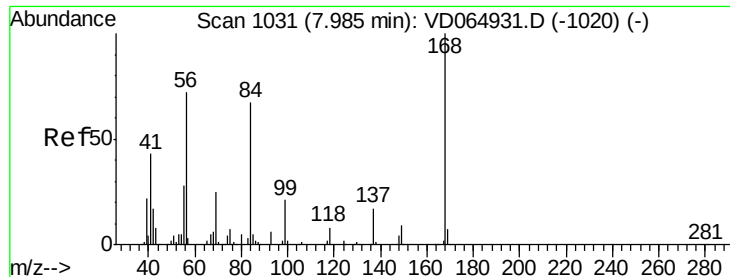
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

ClientSampleId :

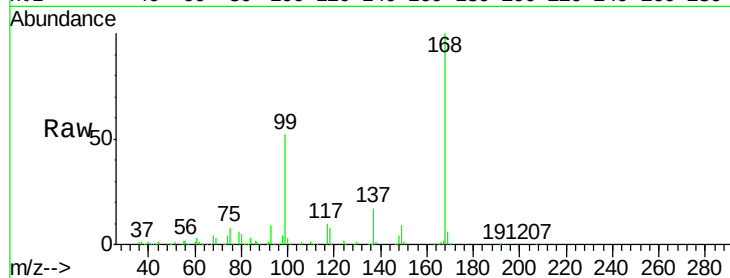
BU-01-012920

Tgt Ion:168 Resp: 556091

Ion Ratio Lower Upper

168 100

99 51.7 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

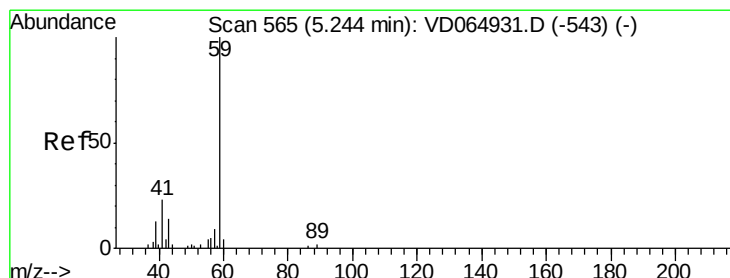
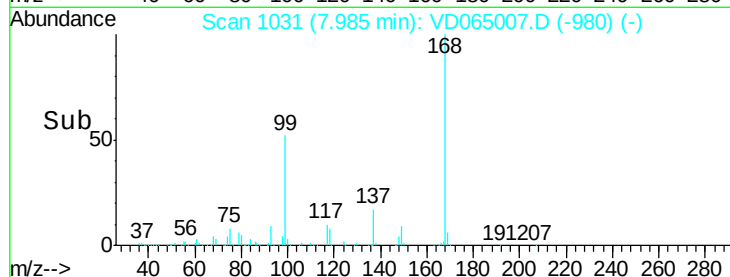
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 33.95 ug/l

RT: 5.26 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD065007.D

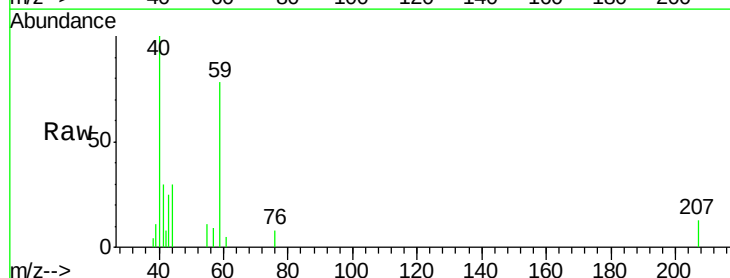
Acq: 30 Jan 2020 12:24

Tgt Ion: 59 Resp: 10007

Ion Ratio Lower Upper

59 100

57 8.8 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.26

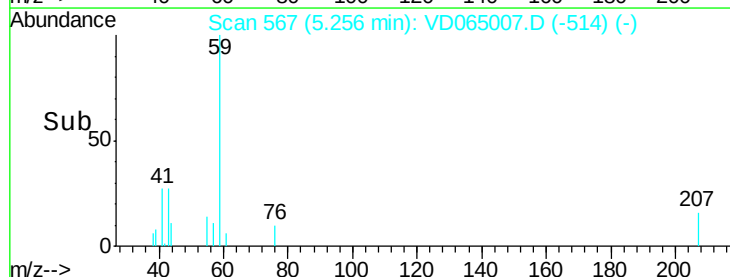
3000

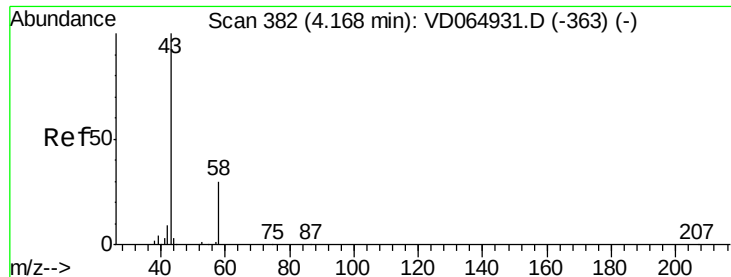
2000

1000

0

Time-->





#16

Acetone

Concen: 59.83 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

ClientSampleId :

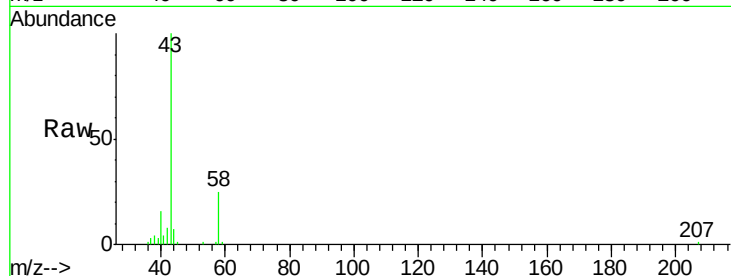
BU-01-012920

Tgt Ion: 43 Resp: 70565

Ion Ratio Lower Upper

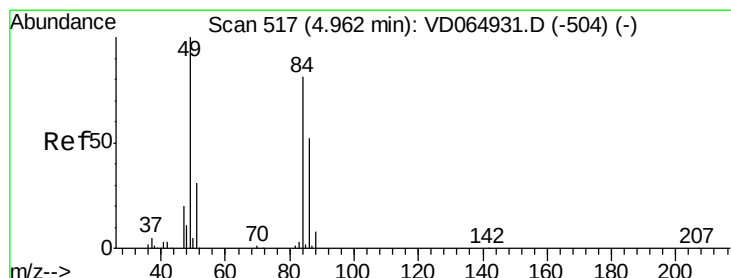
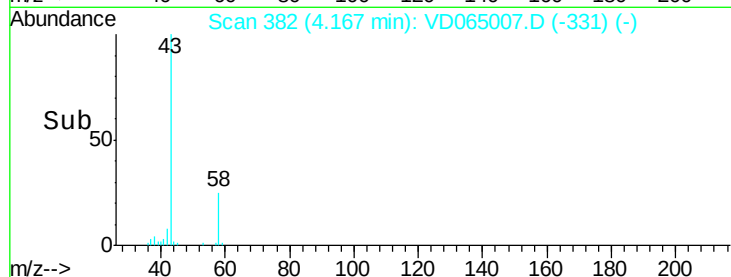
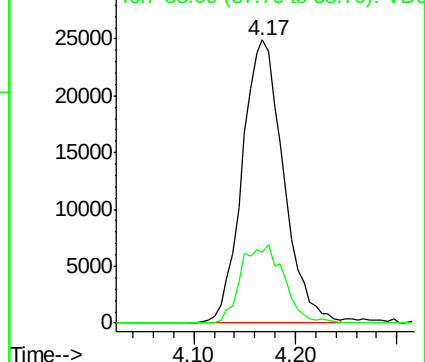
43 100

58 25.0 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Tgt Ion: 84 Resp: 9946

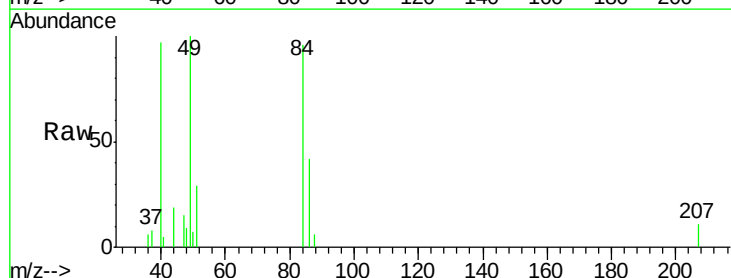
Ion Ratio Lower Upper

84 100

49 103.7 98.4 147.6

51 30.2 30.8 46.2#

86 43.8 51.0 76.6#

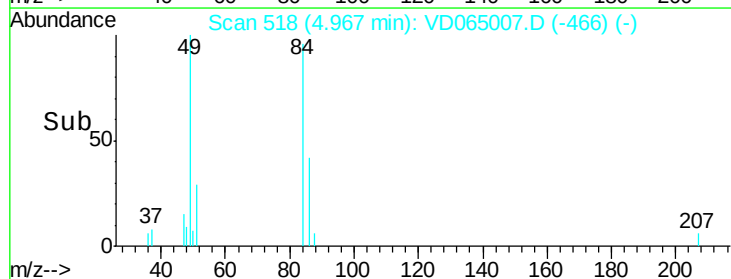
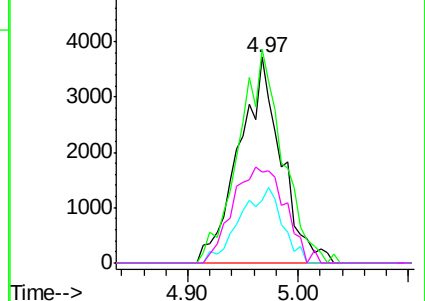


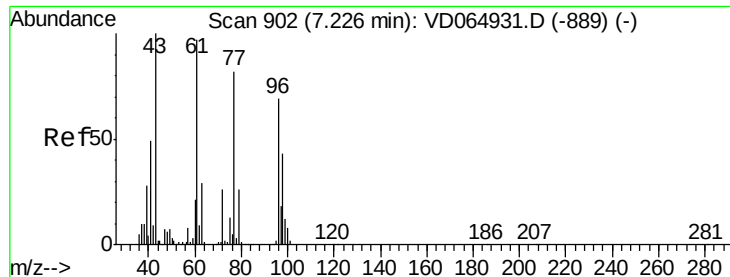
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 2.17 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.01 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

ClientSampleId :

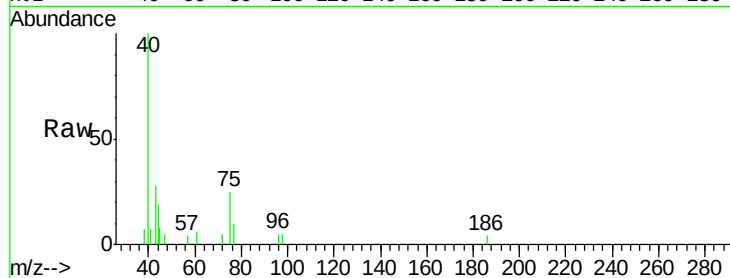
BU-01-012920

Tgt Ion: 43 Resp: 3134

Ion Ratio Lower Upper

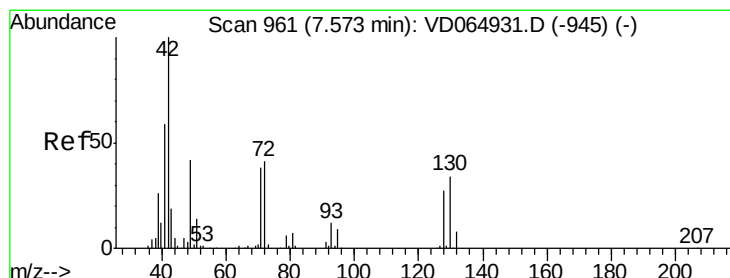
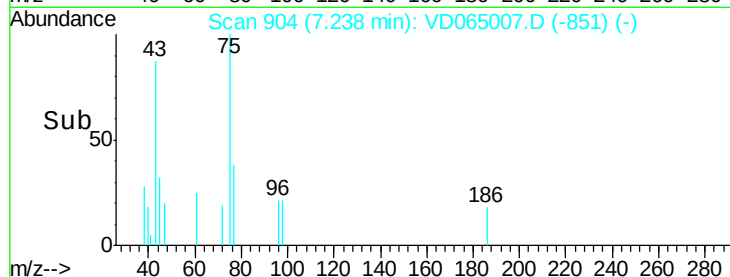
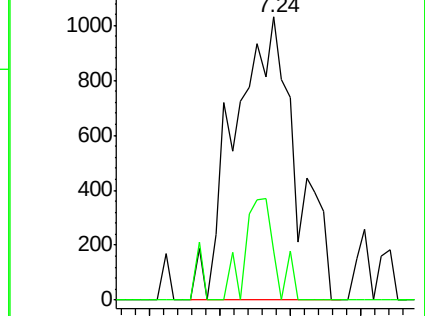
43 100

72 17.5 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 8.68 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

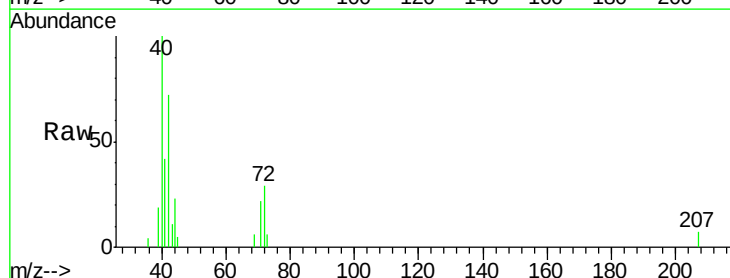
Tgt Ion: 42 Resp: 7715

Ion Ratio Lower Upper

42 100

72 46.7 34.0 51.0

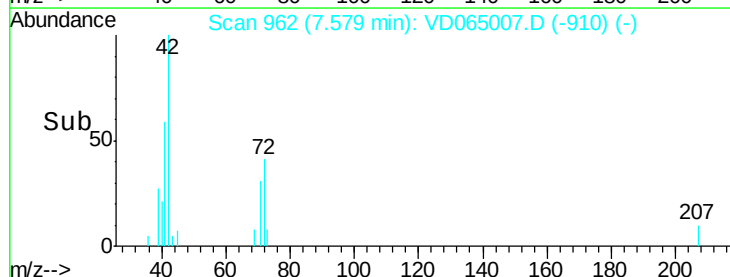
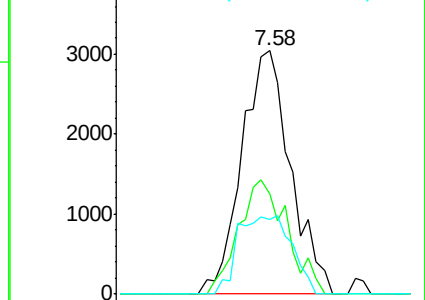
71 35.6 31.5 47.3

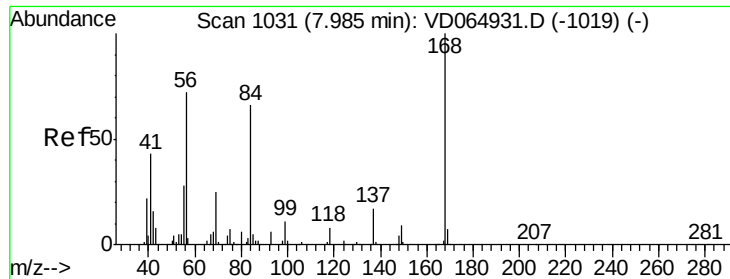


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

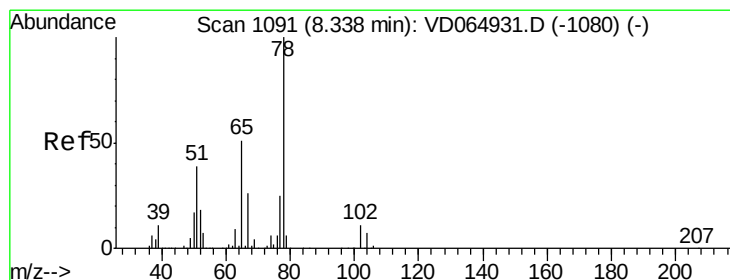
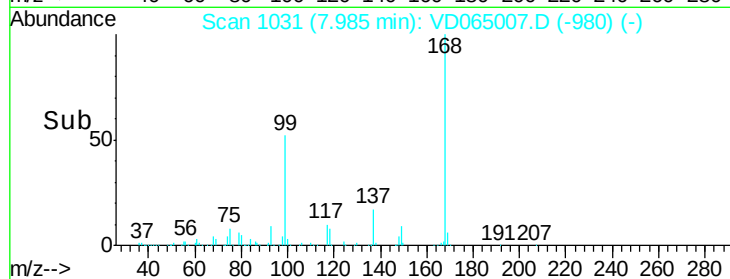
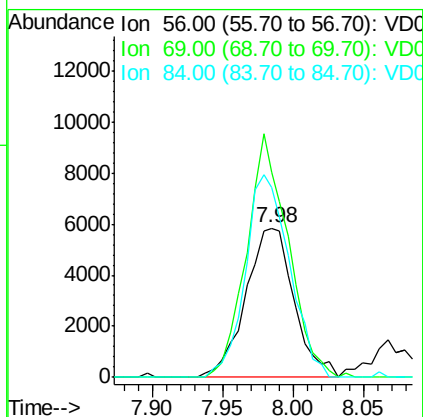
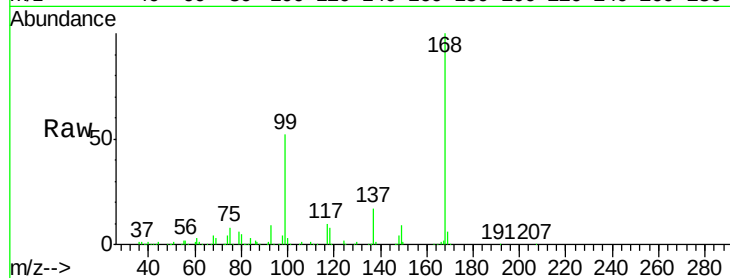




#31
Cyclohexane
Concen: 1.51 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

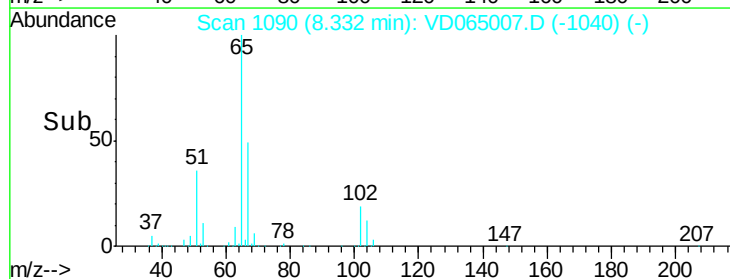
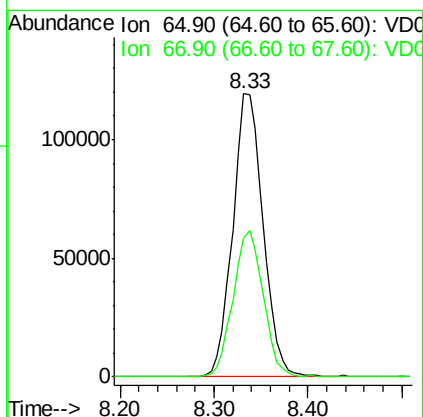
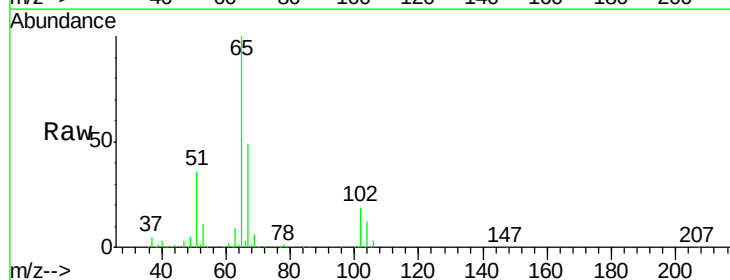
Instrument :
MSVOA_D
ClientSampleId :
BU-01-012920

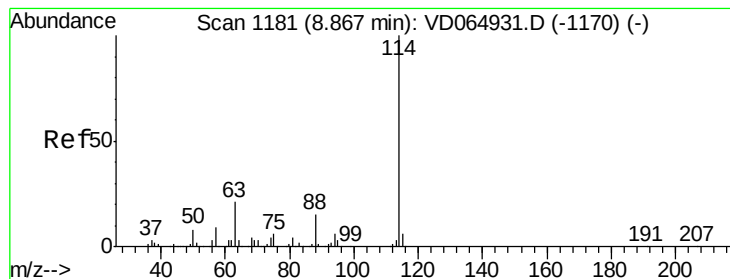
Tgt Ion: 56 Resp: 14003
Ion Ratio Lower Upper
56 100
69 137.5 27.9 41.9#
84 127.6 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 50.14 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

Tgt Ion: 65 Resp: 267470
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

ClientSampleId :

BU-01-012920

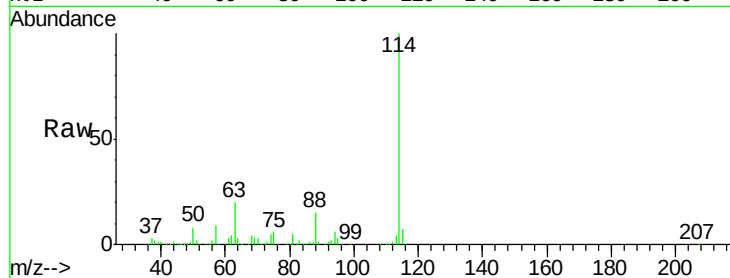
Tgt Ion:114 Resp: 867460

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.0

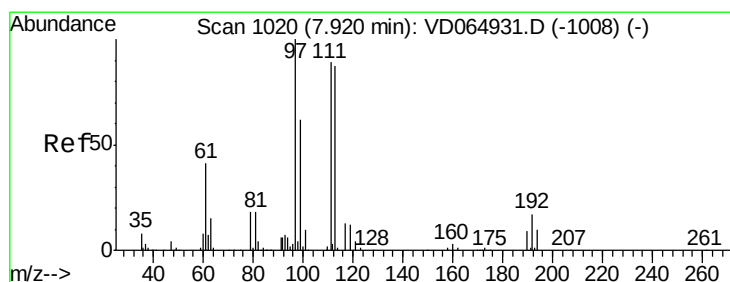
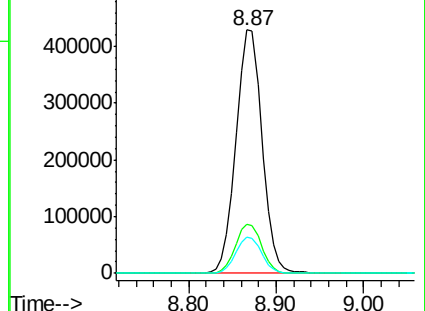
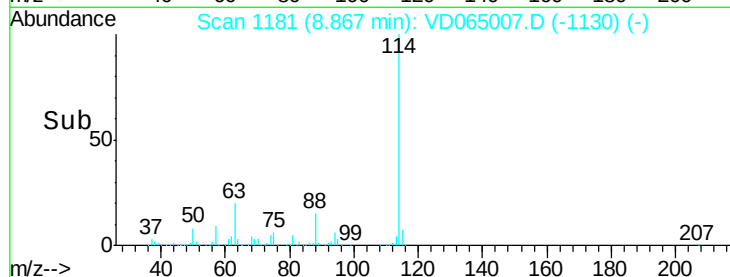
88 14.9 0.0 29.4



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: 49.47 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

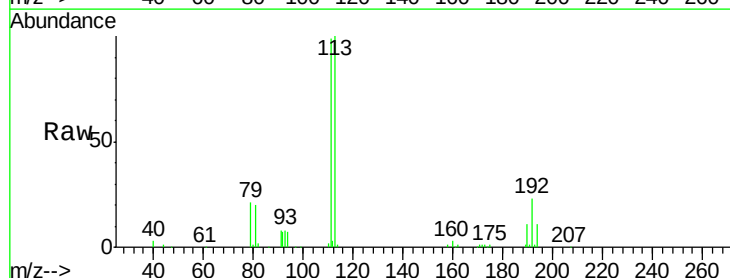
Tgt Ion:113 Resp: 269671

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

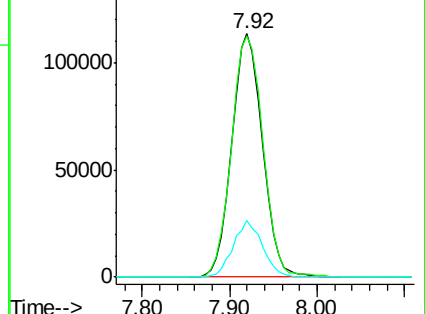
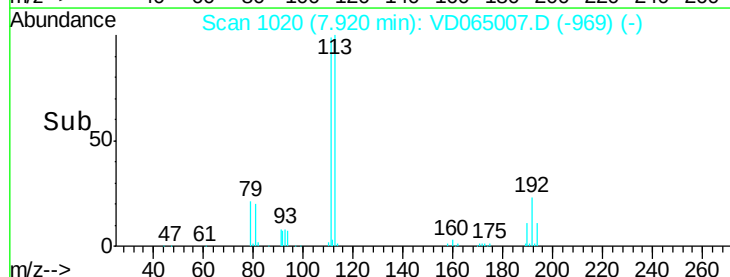
192 22.0 16.9 25.3

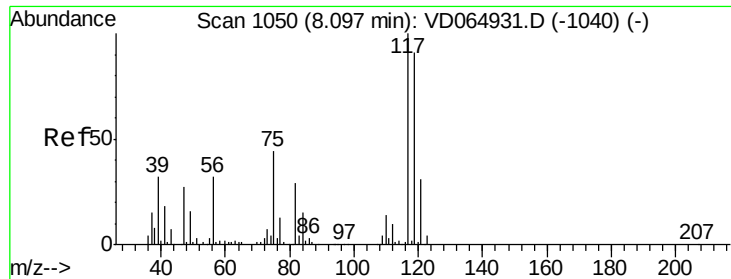


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.06 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

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BU-01-012920

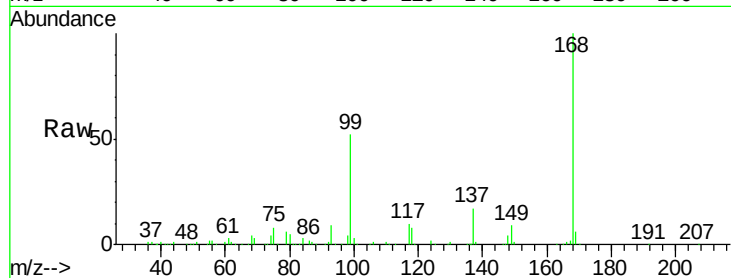
Tgt Ion:117 Resp: 53602

Ion Ratio Lower Upper

117 100

119 4.7 73.2 109.8#

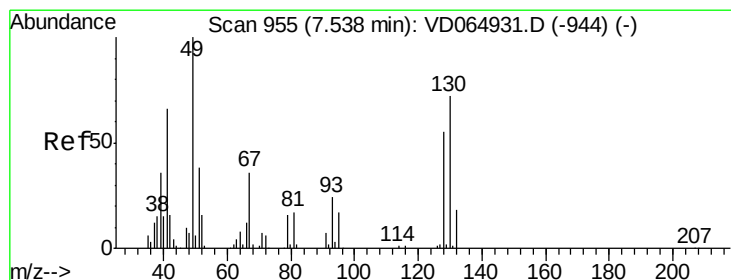
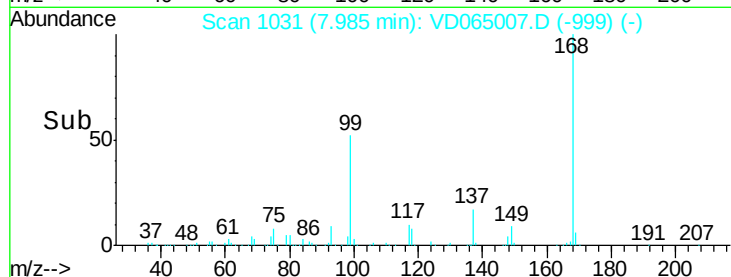
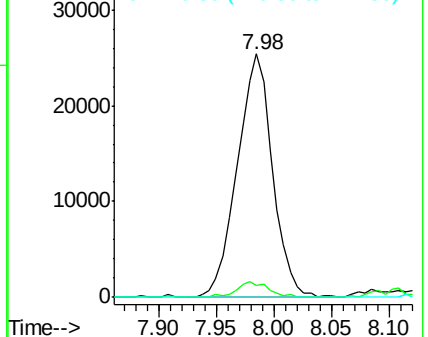
121 0.0 24.4 36.6#



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: 2.75 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.04 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Tgt Ion: 41 Resp: 5124

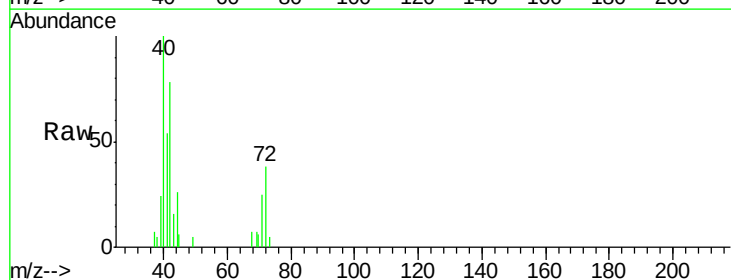
Ion Ratio Lower Upper

41 100

39 56.6 49.3 73.9

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

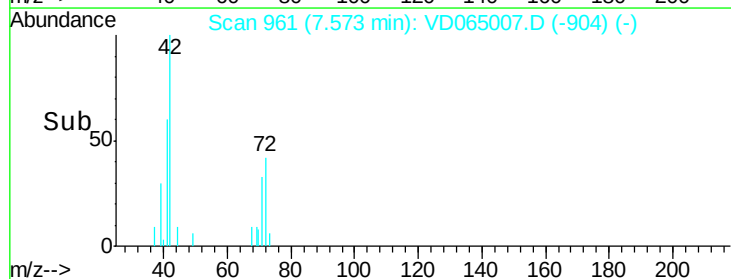
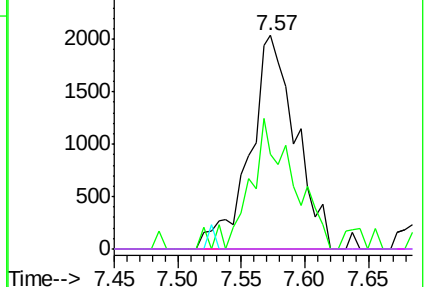


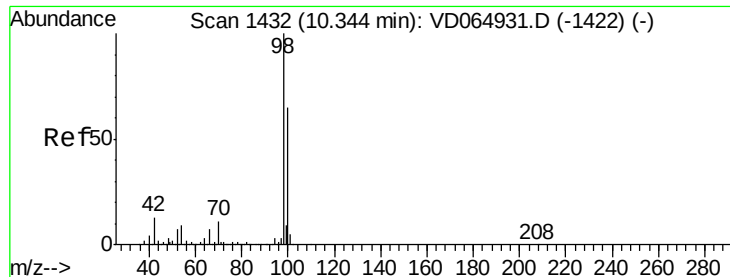
Abundance Ion 41.00 (40.70 to 41.70): VDC

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

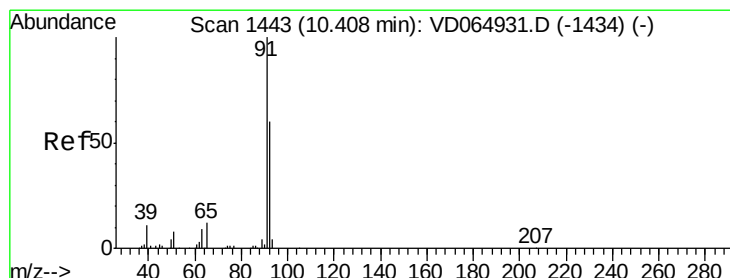
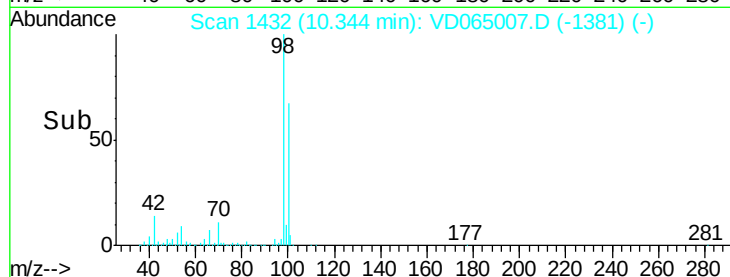
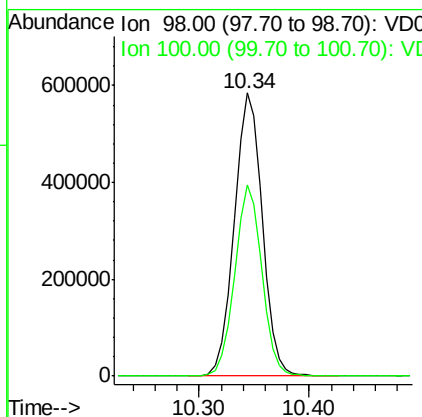
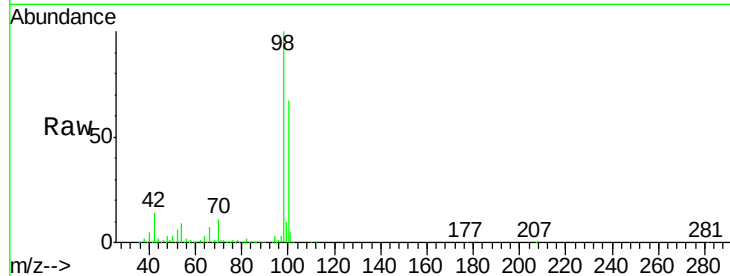




#50
Toluene-d8
Concen: 49.64 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

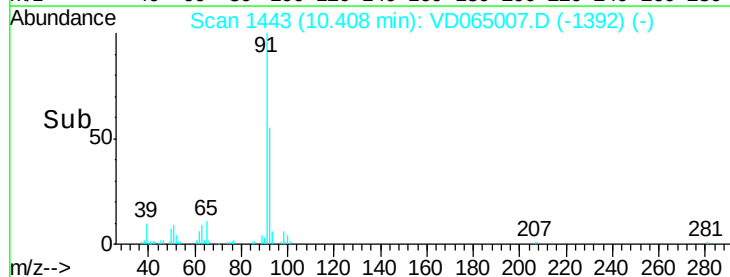
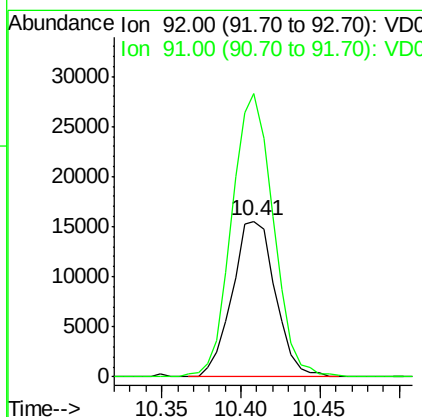
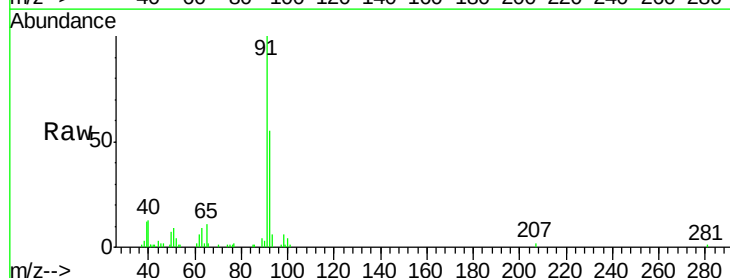
Instrument :
MSVOA_D
ClientSampleId :
BU-01-012920

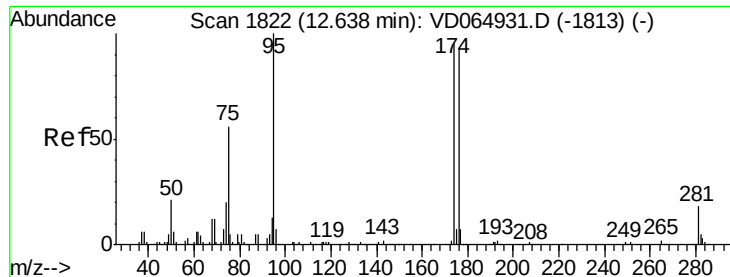
Tgt Ion: 98 Resp: 1044308
Ion Ratio Lower Upper
98 100
100 65.2 52.3 78.5



#52
Toluene
Concen: 1.98 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

Tgt Ion: 92 Resp: 29440
Ion Ratio Lower Upper
92 100
91 174.5 136.8 205.2

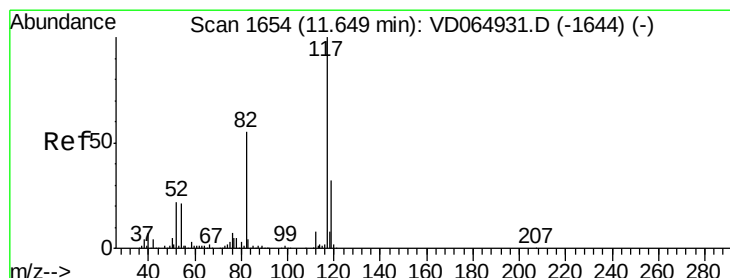
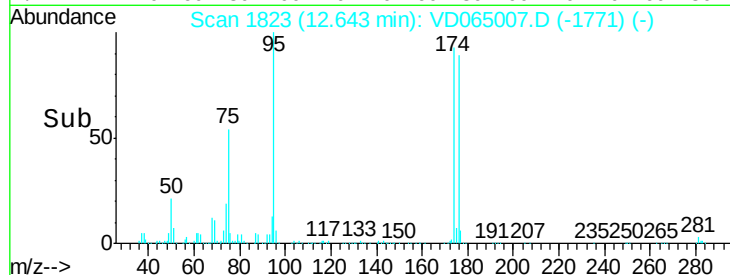
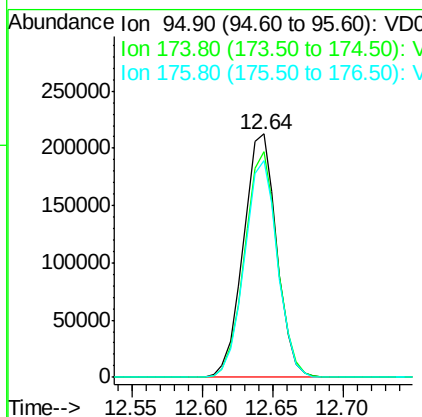
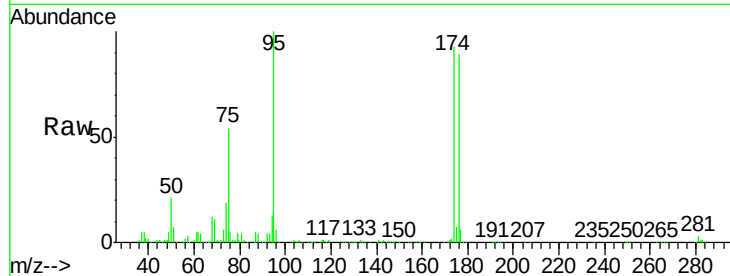




#62
4-Bromofluorobenzene
Concen: 54.69 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

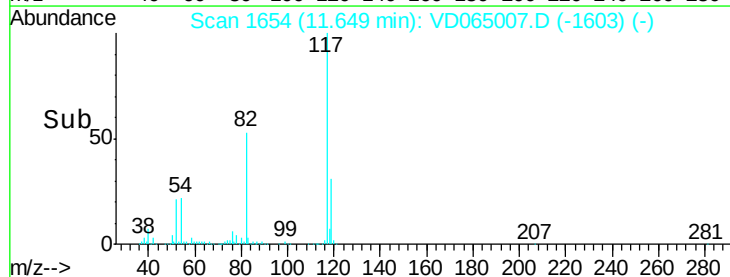
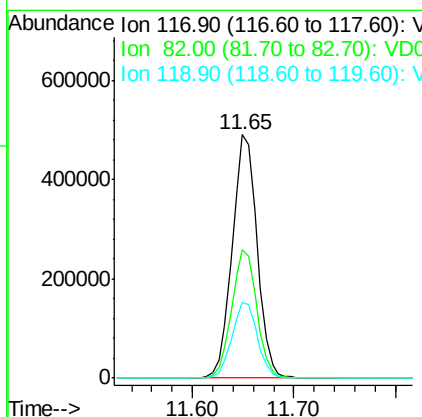
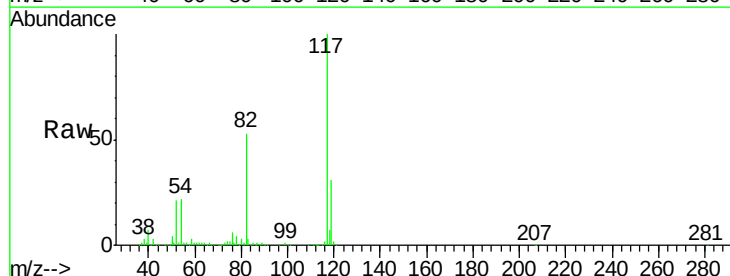
Instrument :
MSVOA_D
ClientSampleId :
BU-01-012920

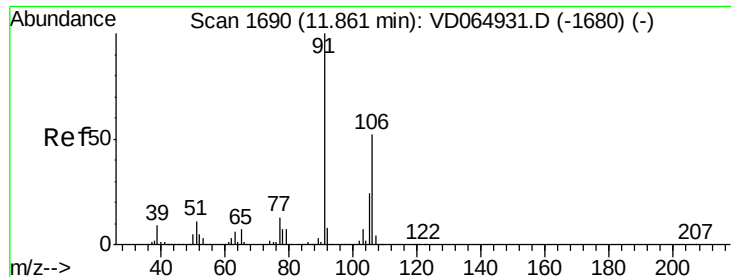
Tgt Ion: 95 Resp: 352102
Ion Ratio Lower Upper
95 100
174 91.2 0.0 186.8
176 88.2 0.0 183.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

Tgt Ion: 117 Resp: 834394
Ion Ratio Lower Upper
117 100
82 52.8 43.6 65.4
119 31.0 25.2 37.8

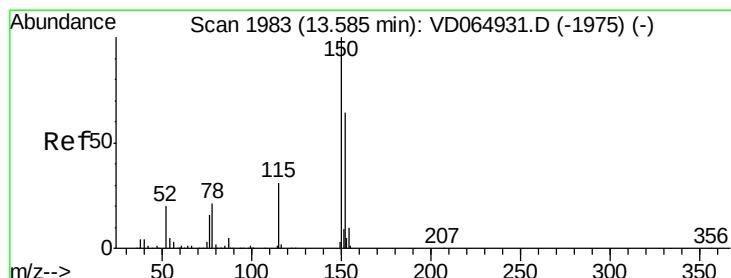
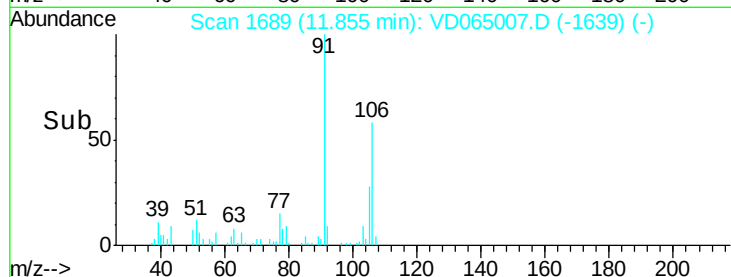
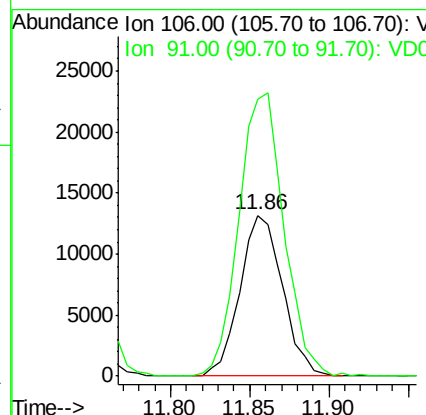
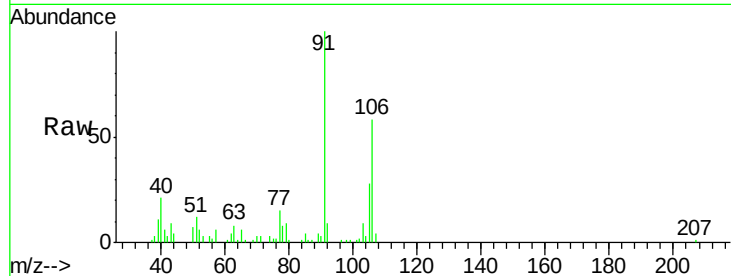




#68
m/p-Xylenes
Concen: 2.12 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

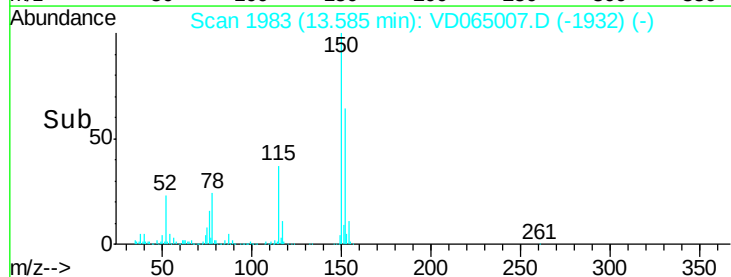
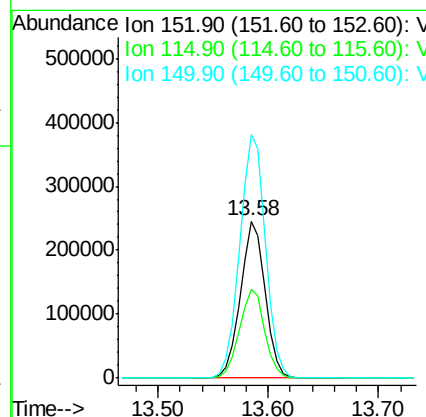
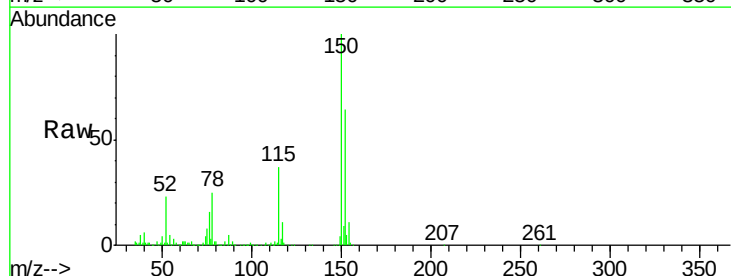
Instrument :
MSVOA_D
ClientSampleId :
BU-01-012920

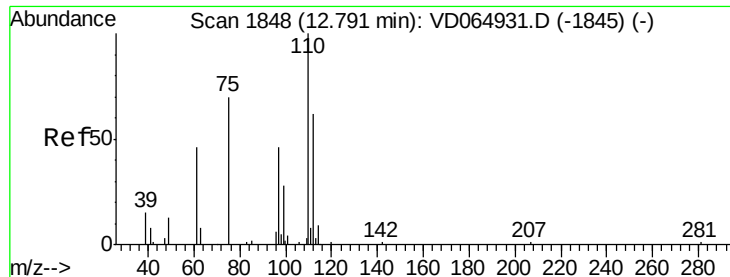
Tgt Ion:106 Resp: 24521
Ion Ratio Lower Upper
106 100
91 186.7 159.0 238.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065007.D
Acq: 30 Jan 2020 12:24

Tgt Ion:152 Resp: 385808
Ion Ratio Lower Upper
152 100
115 57.5 28.1 84.4
150 161.5 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 59.08 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

Instrument :

MSVOA_D

ClientSampleId :

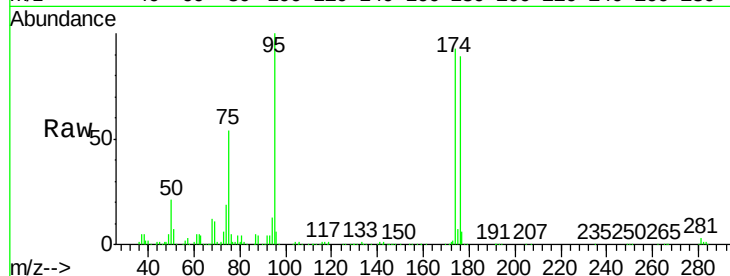
BU-01-012920

Tgt Ion: 75 Resp: 189184

Ion Ratio Lower Upper

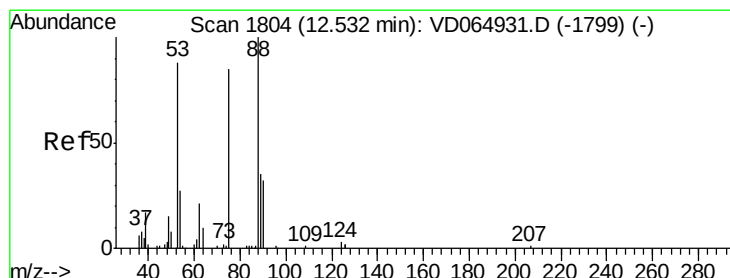
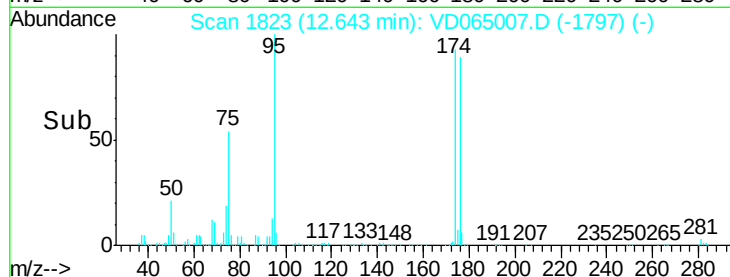
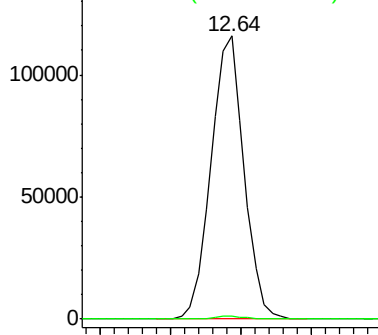
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 126.15 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065007.D

Acq: 30 Jan 2020 12:24

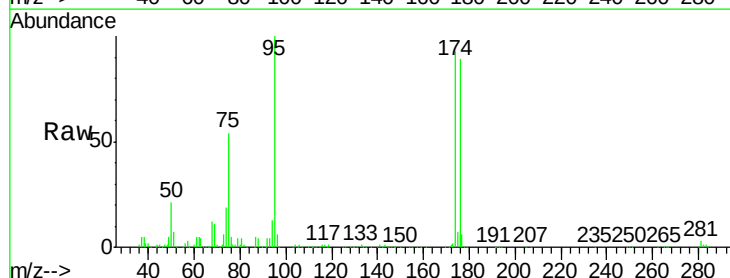
Tgt Ion: 75 Resp: 189184

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.4#

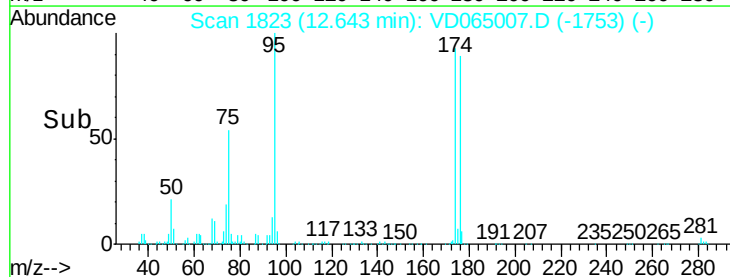
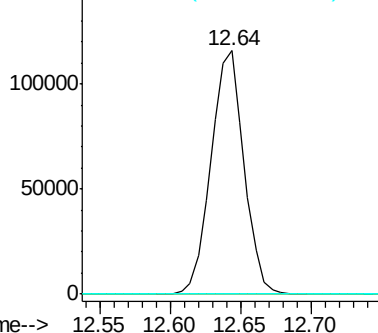
89 0.0 36.2 54.4#

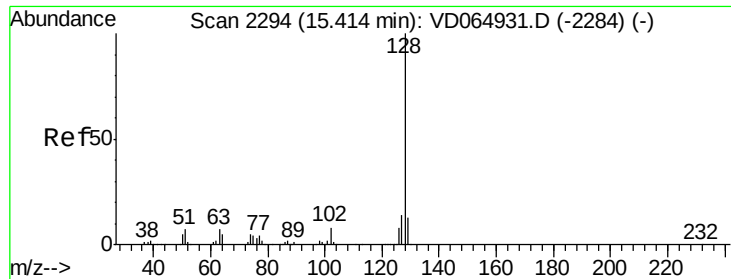


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

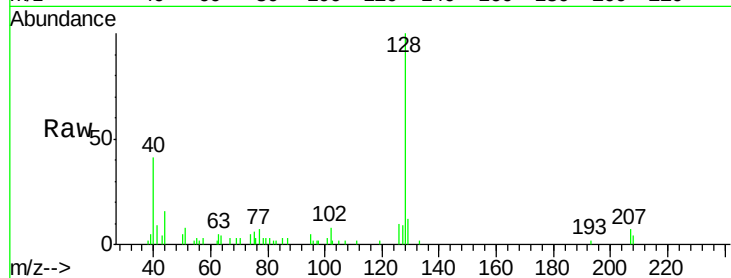




#95
 Naphthalene
 Concen: 1.47 ug/l
 RT: 15.42 min Scan# 2295
 Delta R.T. 0.01 min
 Lab File: VD065007.D
 Acq: 30 Jan 2020 12:24

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-01-012920

Tgt Ion:128 Resp: 17260
 Ion Ratio Lower Upper
 128 100
 127 16.2 10.6 15.8#
 129 9.9 9.3 13.9



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

