

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067319.D
 Acq On : 20 Oct 2020 13:01
 Operator : VA/SY
 Sample : L4458-01RE
 Misc : 3.35G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BS-DRUM

Quant Time: Oct 21 01:49:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	313481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	552013	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	468467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	147747	50.00	ug/l	0.00

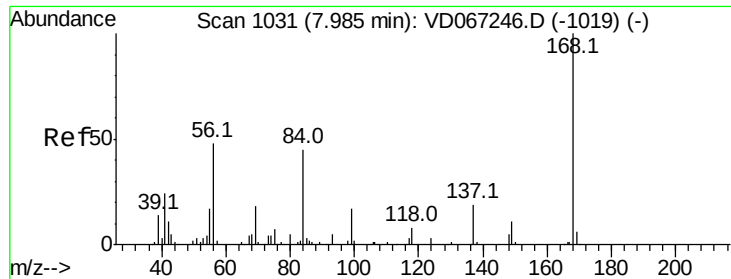
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	176454	56.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.36%	
35) Dibromofluoromethane	7.91	113	188213	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
50) Toluene-d8	10.34	98	614904	46.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.50%	
62) 4-Bromofluorobenzene	12.64	95	188922	40.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	465	Below Cal	#	44
5) Bromomethane	2.79	94	609	Below Cal	#	30
11) Tert butyl alcohol	5.21	59	895	Below Cal	#	81
16) Acetone	4.16	43	43056	97.890	ug/l	93
20) Methylene Chloride	4.96	84	1238	Below Cal		91
25) 2-Butanone	7.21	43	10274	20.492	ug/l	94
29) Tetrahydrofuran	7.57	42	813	2.917	ug/l #	86
31) Cyclohexane	7.98	56	9691	2.679	ug/l #	51
37) Ethyl Acetate	7.21	43	10274	7.464	ug/l #	62
38) Carbon Tetrachloride	7.98	117	31479	5.264	ug/l #	18
39) Methylcyclohexane	9.36	83	11331	2.317	ug/l	94
48) Methyl methacrylate	9.40	41	1358	1.023	ug/l #	36
51) 4-Methyl-2-Pentanone	10.24	43	1920	1.409	ug/l #	76
55) 1,1,2-Trichloroethane	10.78	97	7485	2.962	ug/l #	24
59) 2-Hexanone	10.96	43	8556	9.191	ug/l #	25
67) Ethyl Benzene	11.75	91	44071	2.862	ug/l	94
73) Isopropylbenzene	12.48	105	10309	1.099	ug/l	95
74) N-amyl acetate	12.28	43	6208	4.383	ug/l #	74
76) 1,2,3-Trichloropropane	12.64	75	95000	92.771	ug/l #	100
78) n-propylbenzene	12.82	91	13462	1.239	ug/l	97
80) 1,3,5-Trimethylbenzene	12.97	105	13427	1.648	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.64	75	95000	210.377	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.27	105	26929	3.344	ug/l	94
85) sec-Butylbenzene	13.41	105	25010	2.648	ug/l	96
89) n-Butylbenzene	13.85	91	10790	1.376	ug/l #	76
90) Hexachloroethane	14.13	117	2611	1.678	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

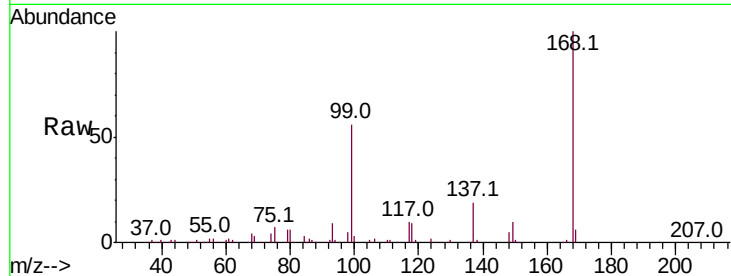
BS-DRUM

Tot Ion:168 Resp: 313481

Ion Ratio Lower Upper

168 100

99 55.9 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

150000

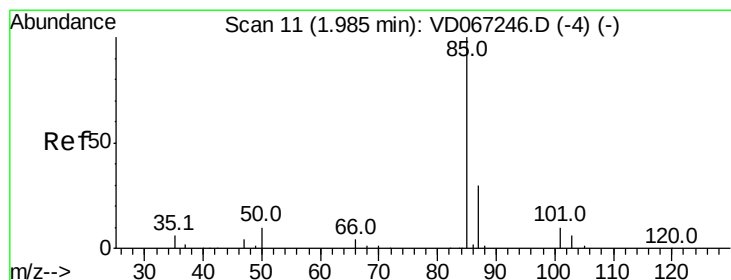
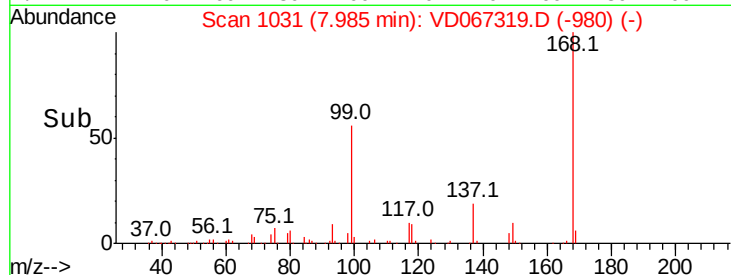
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067319.D

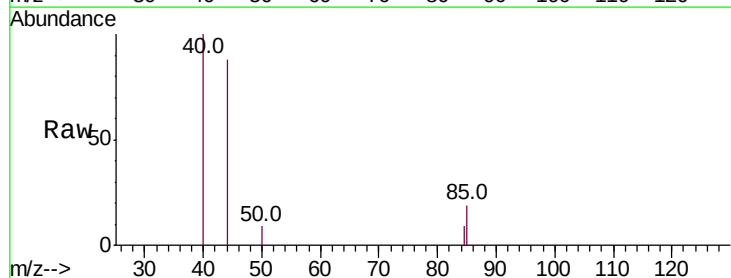
Acq: 20 Oct 2020 13:01

Tgt Ion: 85 Resp: 465

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): V

Ion 86.90 (86.60 to 87.60): V

1.99

300

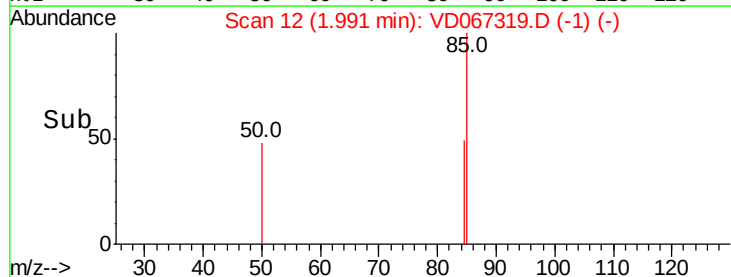
200

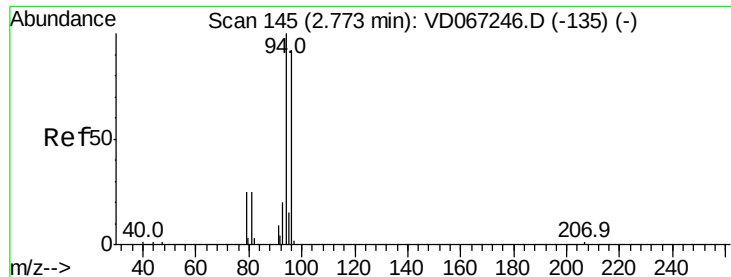
100

0

1.94 1.96 1.98 2.00 2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

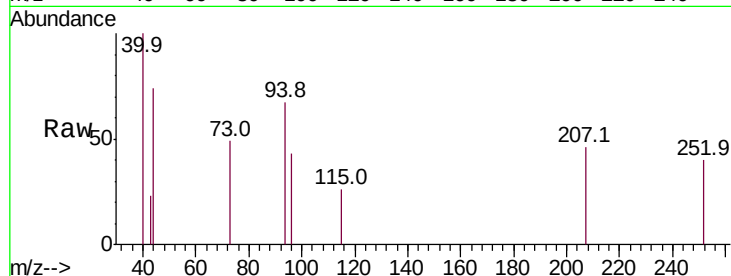
BS-DRUM

Tot Ion: 94 Resp: 609

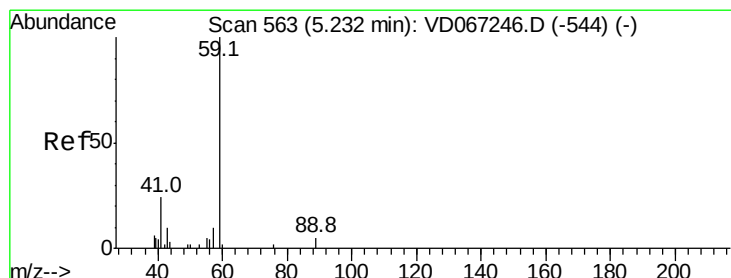
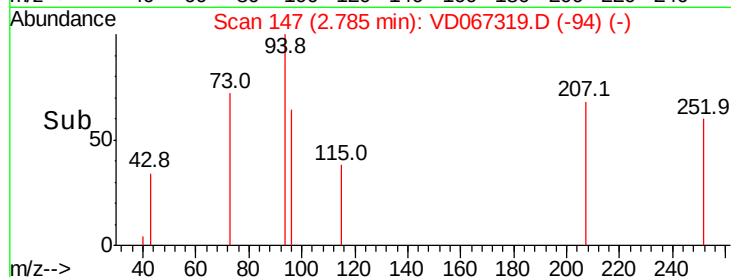
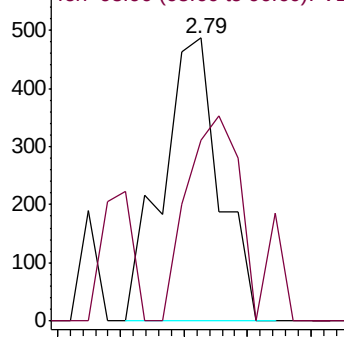
Ion Ratio Lower Upper

94 100

96 25.7 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD067319.D

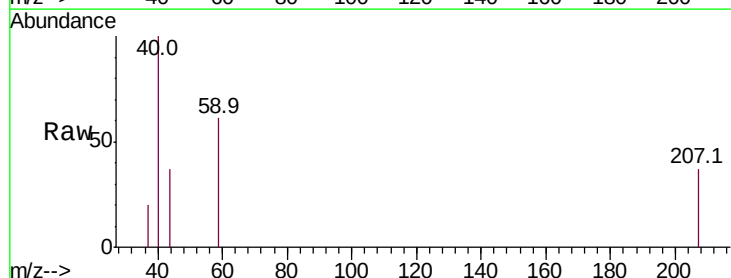
Acq: 20 Oct 2020 13:01

Tgt Ion: 59 Resp: 895

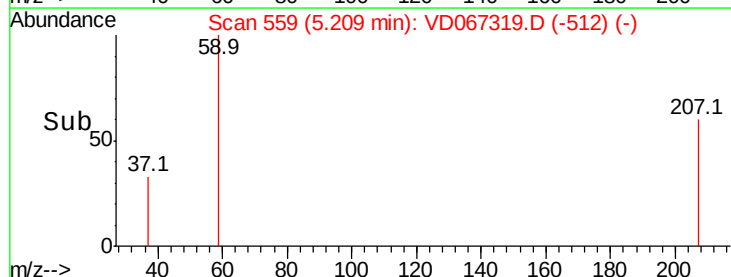
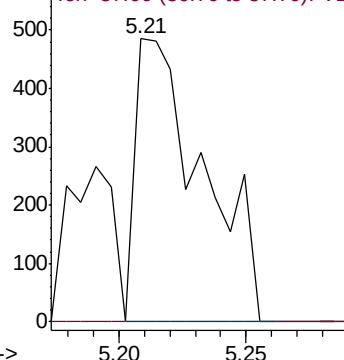
Ion Ratio Lower Upper

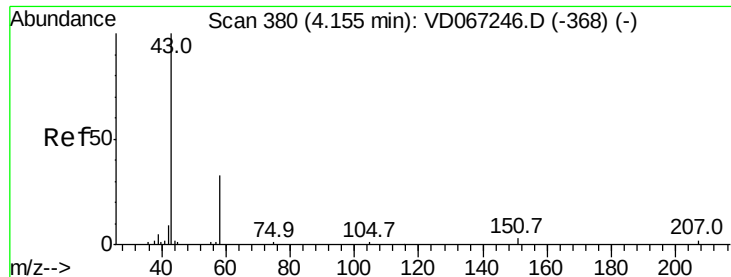
59 100

57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 97.890 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

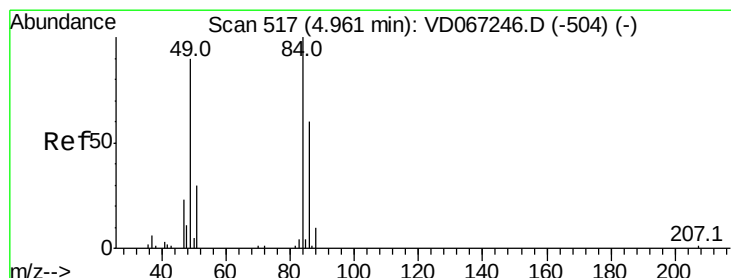
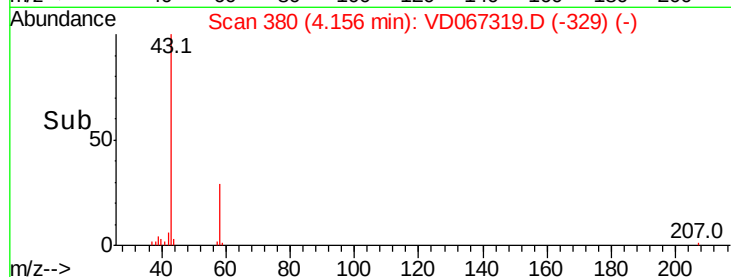
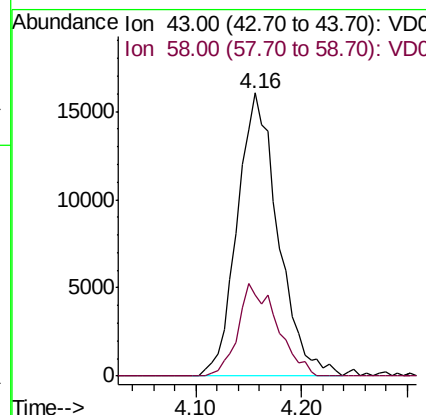
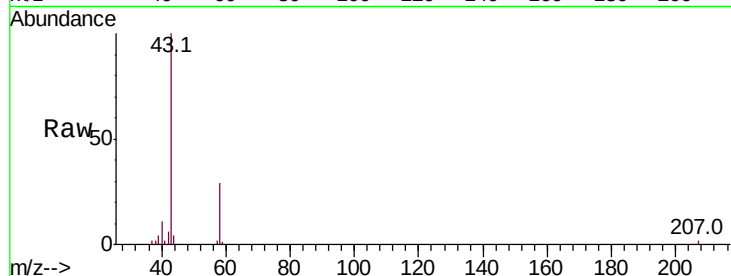
BS-DRUM

Tot Ion: 43 Resp: 43056

Ion Ratio Lower Upper

43 100

58 28.8 26.1 39.1



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Tgt Ion: 84 Resp: 1238

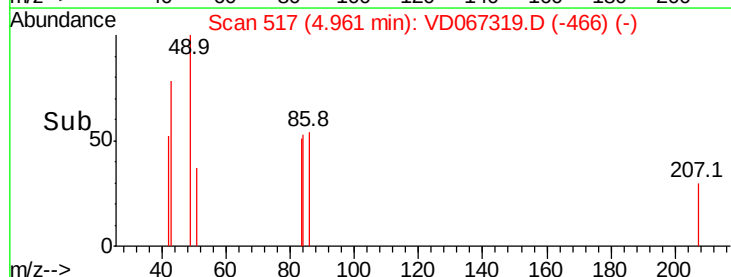
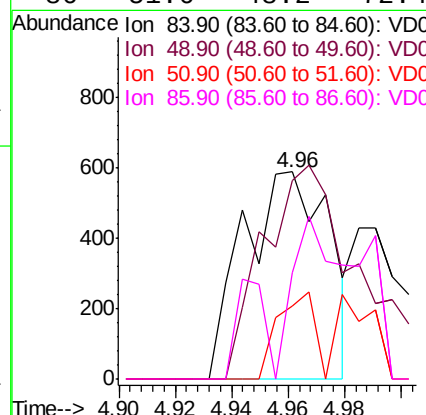
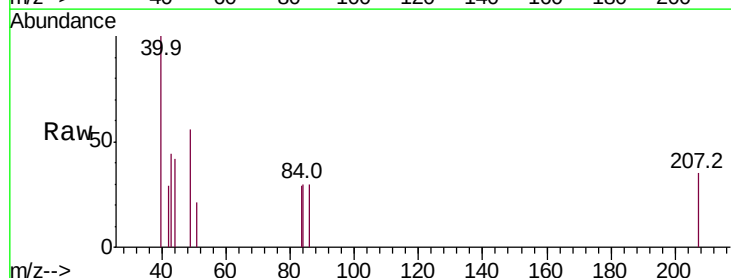
Ion Ratio Lower Upper

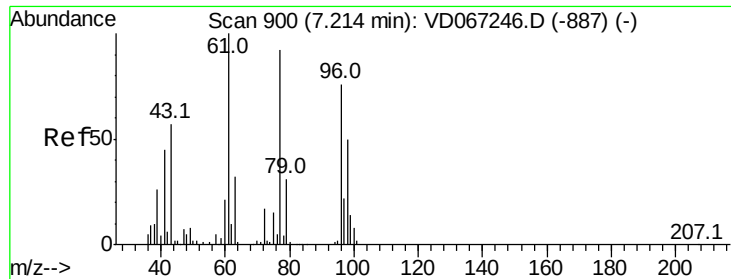
84 100

49 95.9 72.2 108.2

51 35.3 23.8 35.8

86 51.6 48.2 72.4





#25

2-Butanone

Concen: 20.492 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

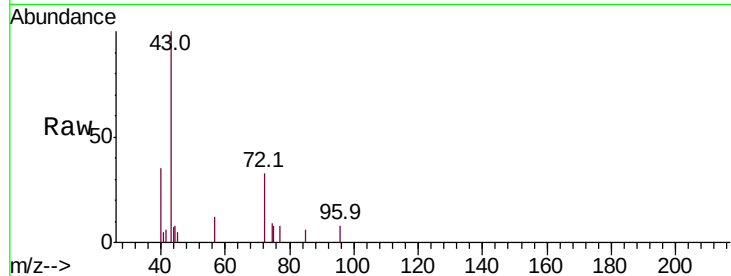
BS-DRUM

Tot Ion: 43 Resp: 10274

Ion Ratio Lower Upper

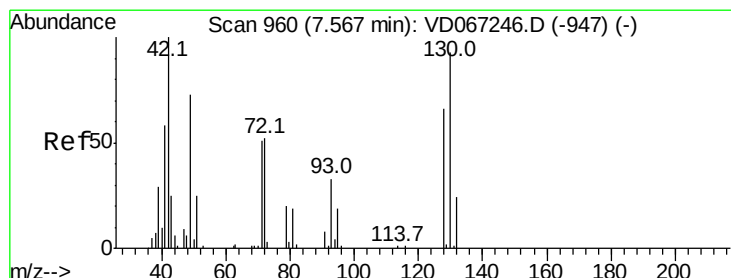
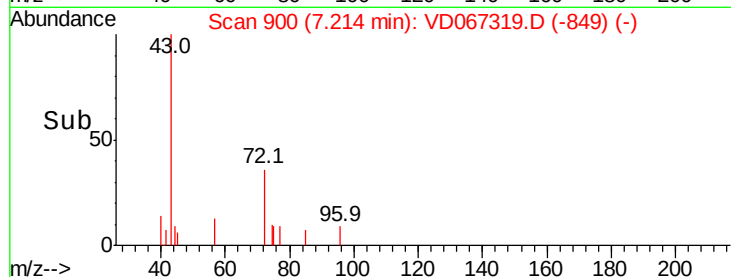
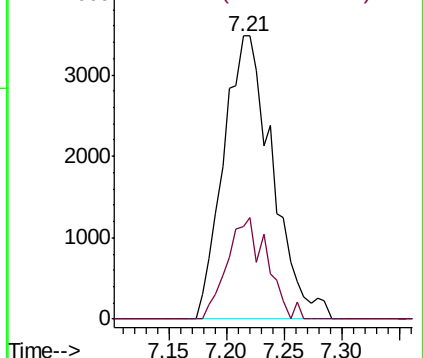
43 100

72 32.7 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.917 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

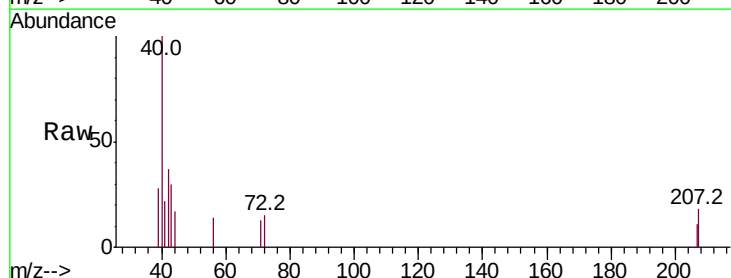
Tgt Ion: 42 Resp: 813

Ion Ratio Lower Upper

42 100

72 35.8 43.2 64.8#

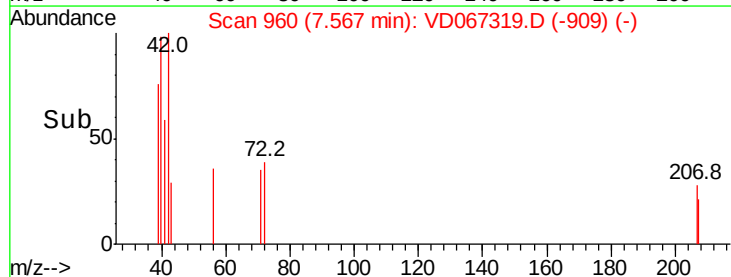
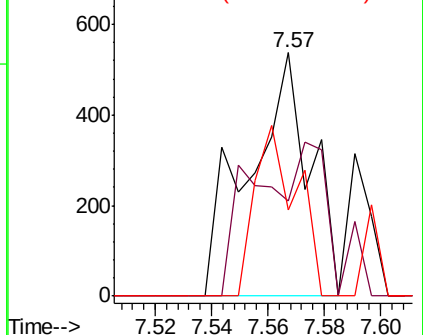
71 47.8 39.4 59.0

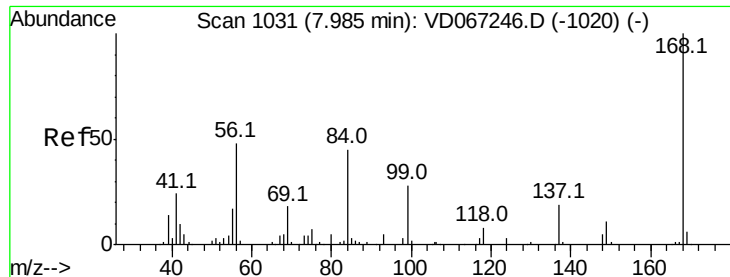


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

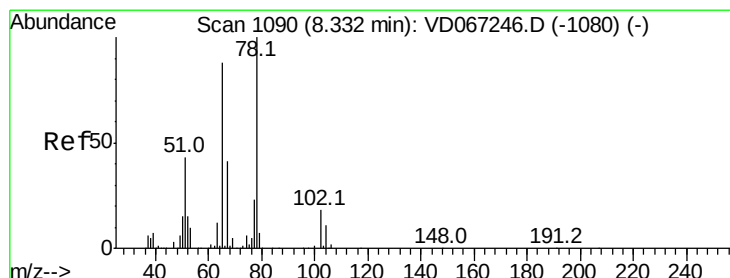
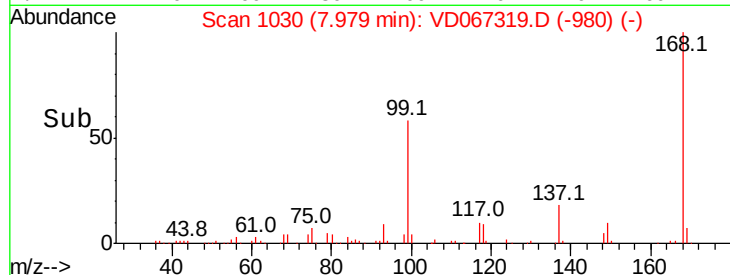
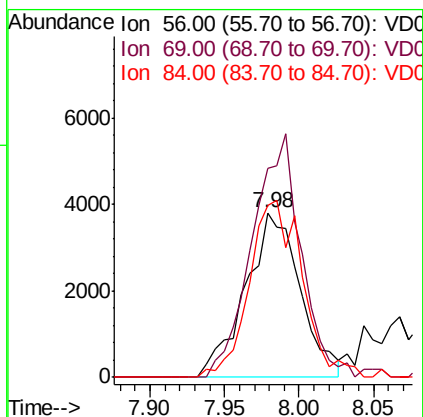
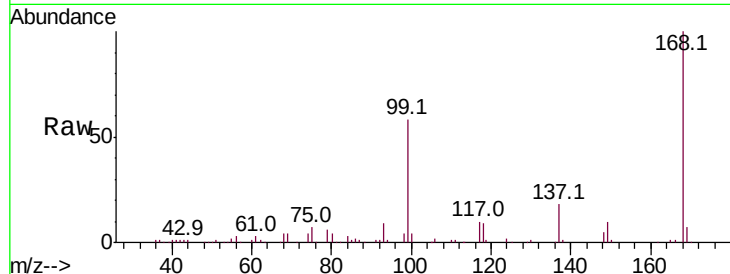




#31
Cyclohexane
Concen: 2.679 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

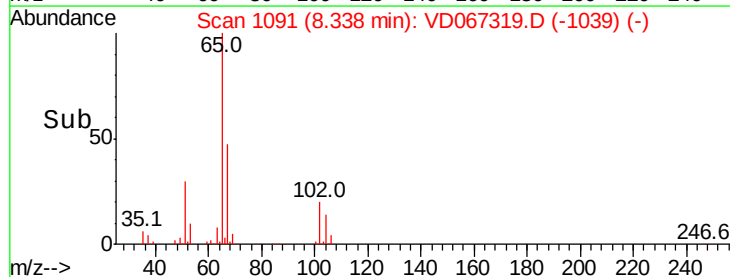
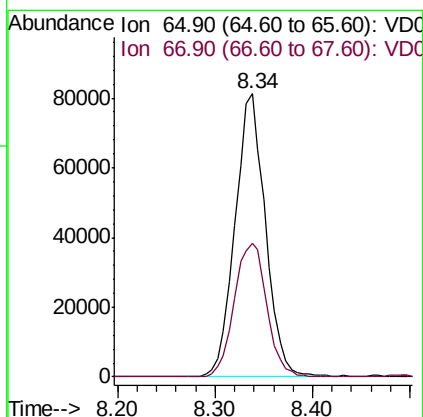
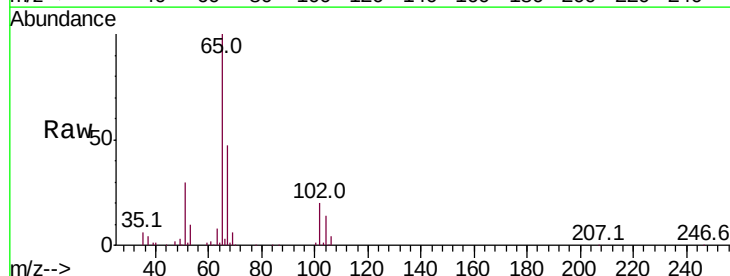
Instrument :
MSVOA_D
ClientSampleId :
BS-DRUM

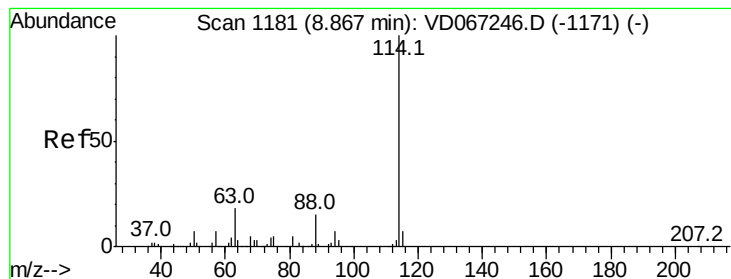
Tot Ion: 56 Resp: 9691
Ion Ratio Lower Upper
56 100
69 127.6 29.8 44.6#
84 104.3 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 56.185 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Tgt Ion: 65 Resp: 176454
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

BS-DRUM

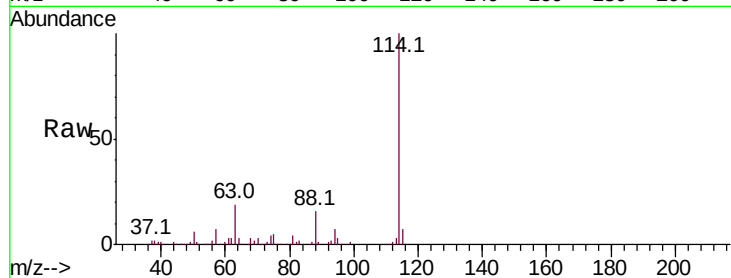
Tot Ion:114 Resp: 552013

Ion Ratio Lower Upper

114 100

63 18.6 0.0 35.0

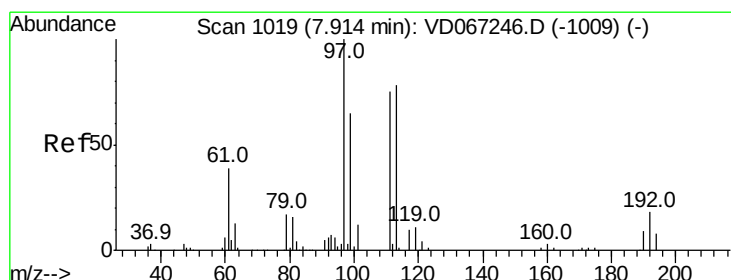
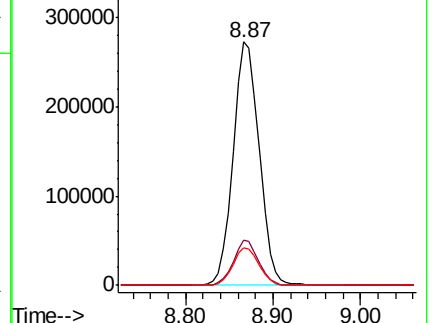
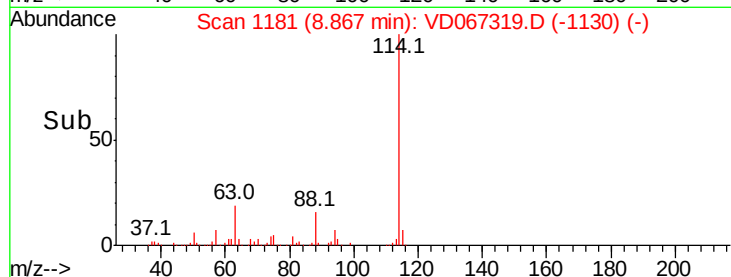
88 15.7 0.0 30.6



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: 51.233 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

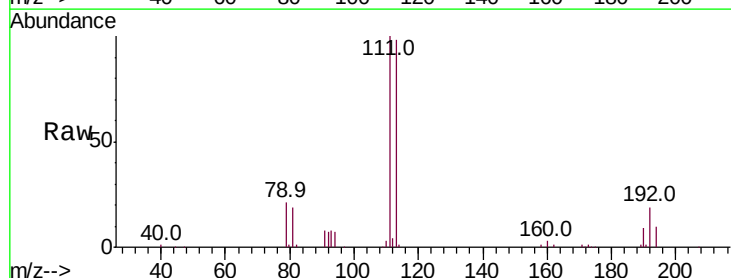
Tgt Ion:113 Resp: 188213

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

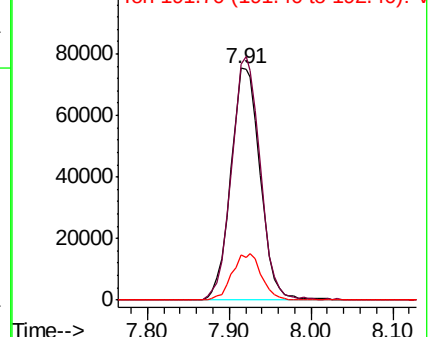
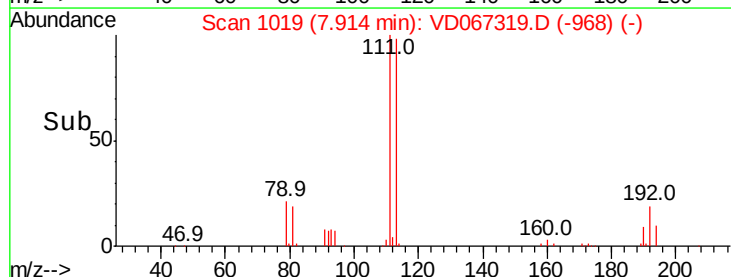
192 20.0 17.0 25.4

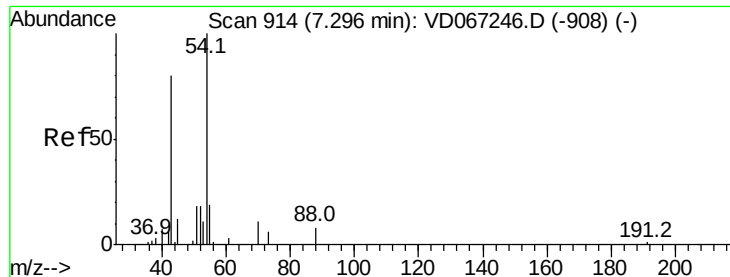


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#37

Ethyl Acetate

Concen: 7.464 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.08 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

BS-DRUM

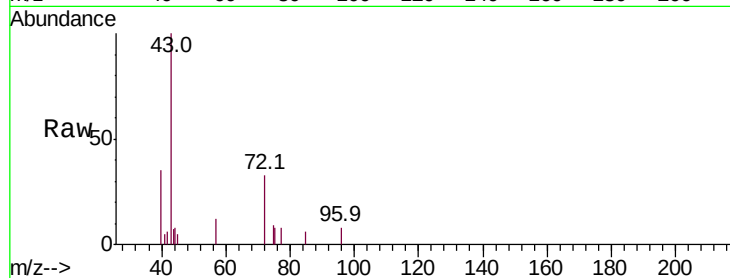
Tot Ion: 43 Resp: 10274

Ion Ratio Lower Upper

43 100

61 0.9 15.6 23.4#

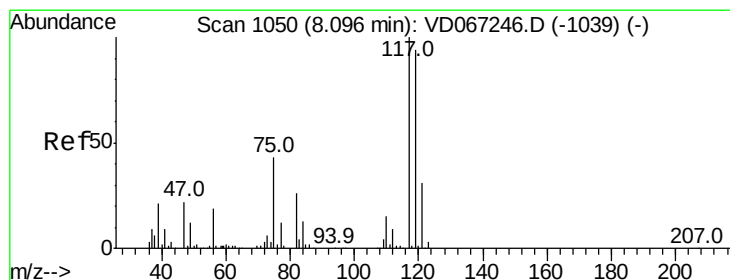
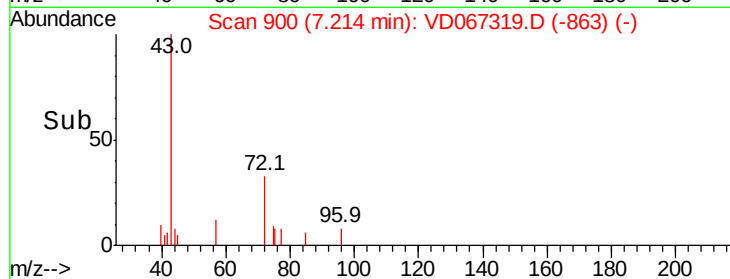
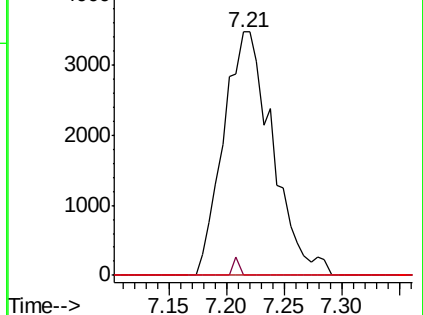
70 0.0 10.4 15.6#



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: 5.264 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

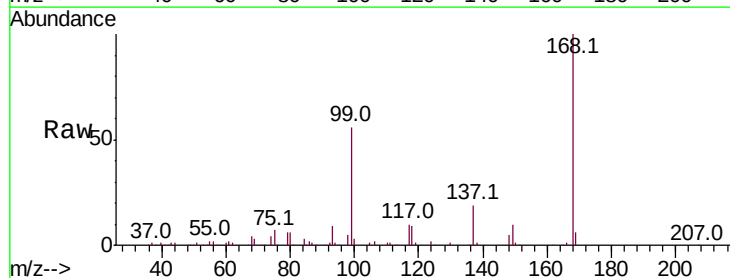
Tgt Ion: 117 Resp: 31479

Ion Ratio Lower Upper

117 100

119 6.8 75.0 112.4#

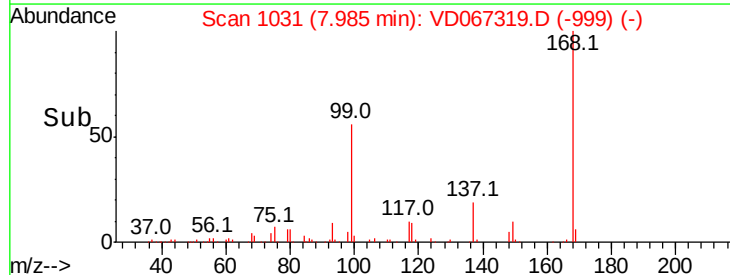
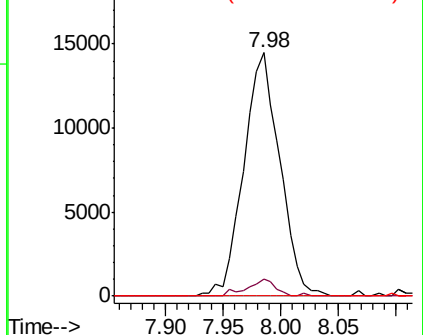
121 0.0 24.9 37.3#

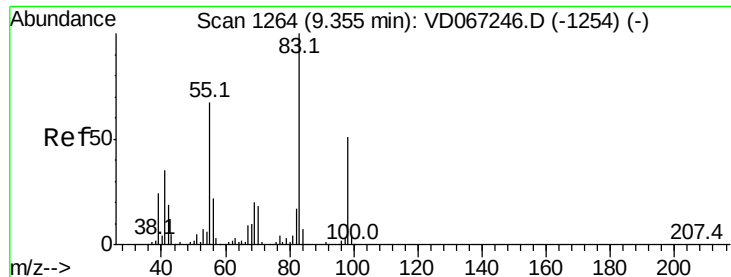


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

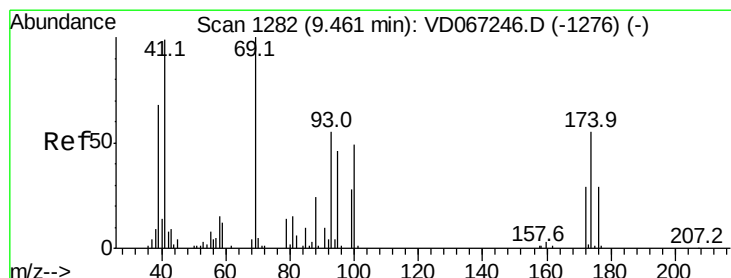
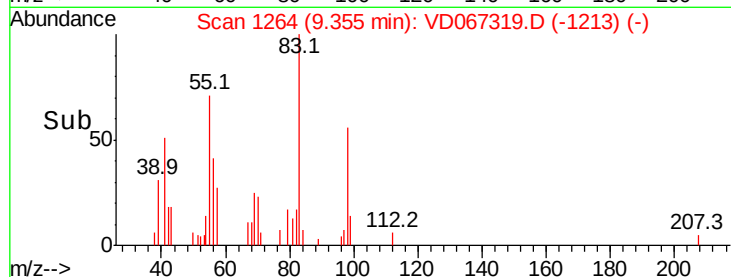
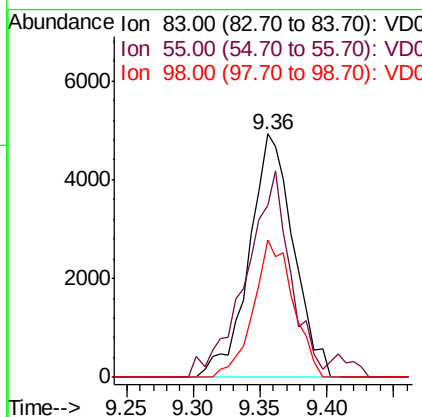
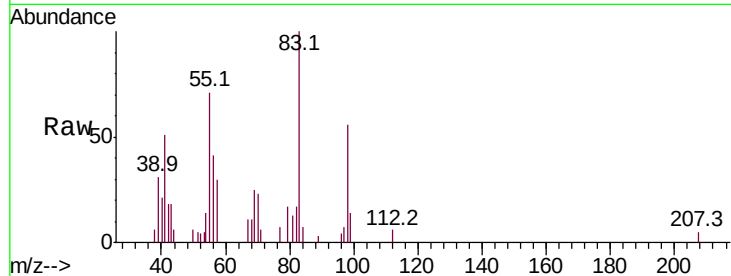




#39
Methylcyclohexane
Concen: 2.317 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

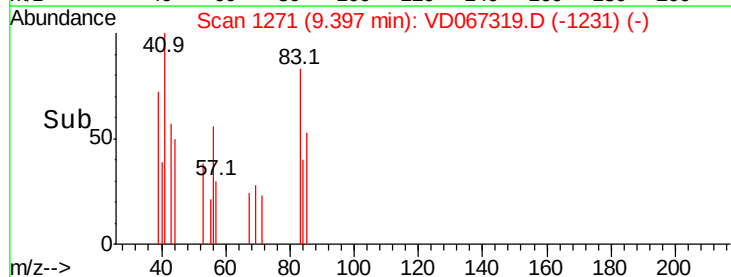
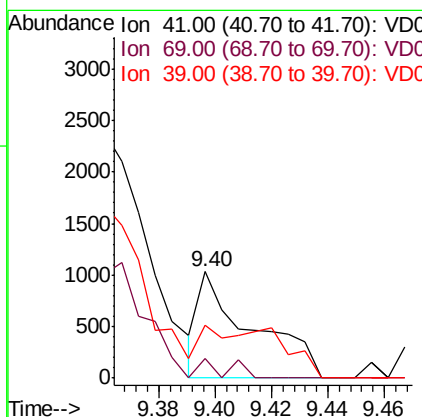
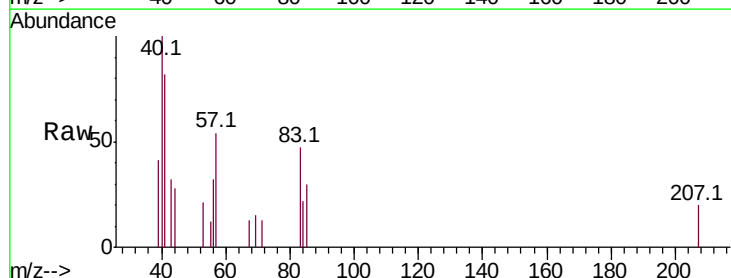
Instrument :
MSVOA_D
ClientSampled :
BS-DRUM

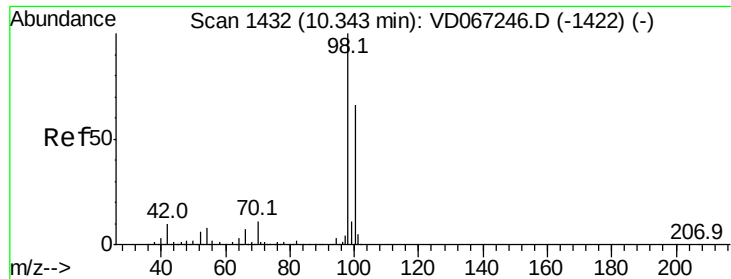
Tot Ion: 83 Resp: 11331
Ion Ratio Lower Upper
83 100
55 70.7 53.3 79.9
98 56.5 41.0 61.4



#48
Methyl methacrylate
Concen: 1.023 ug/l
RT: 9.40 min Scan# 1271
Delta R.T. -0.06 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Tgt Ion: 41 Resp: 1358
Ion Ratio Lower Upper
41 100
69 0.0 89.0 133.6#
39 71.3 60.2 90.2





#50

Toluene-d8

Concen: 46.252 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

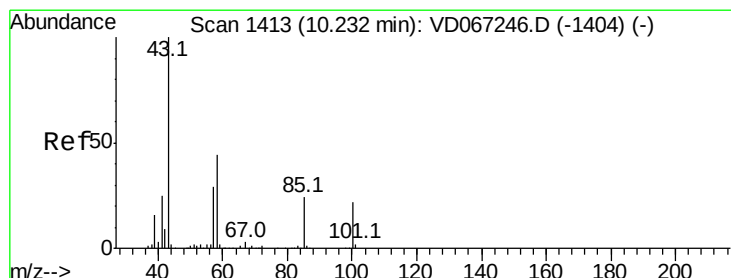
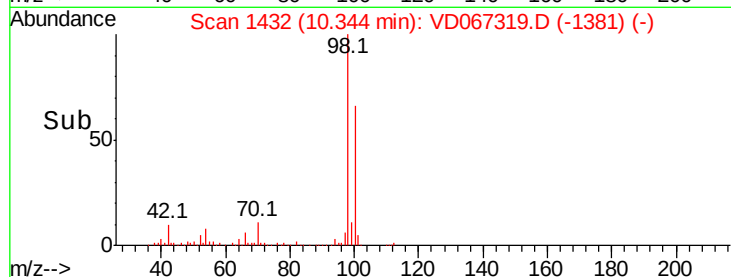
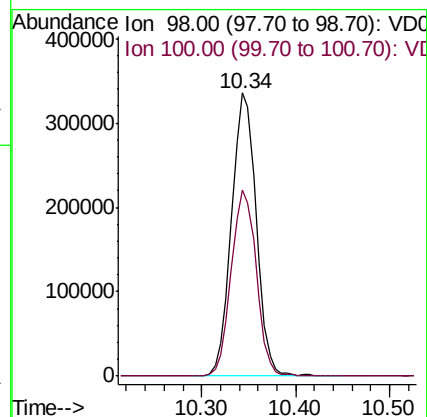
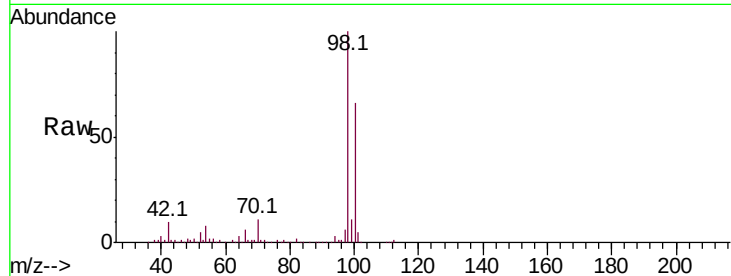
BS-DRUM

Tot Ion: 98 Resp: 614904

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 1.409 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD067319.D

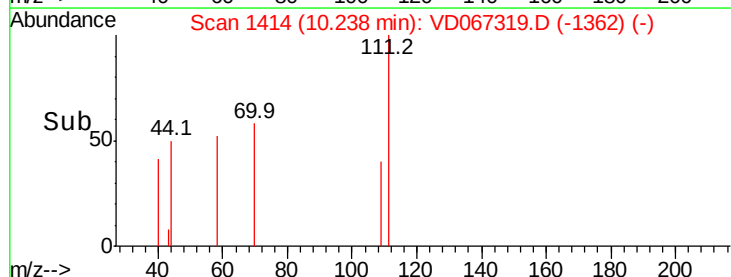
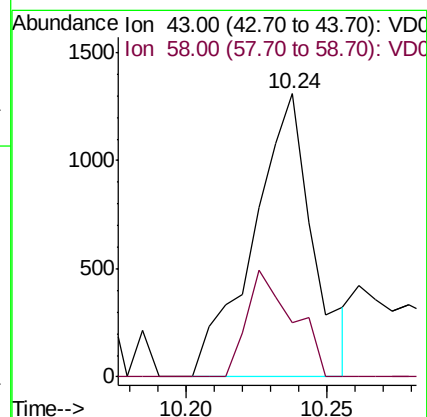
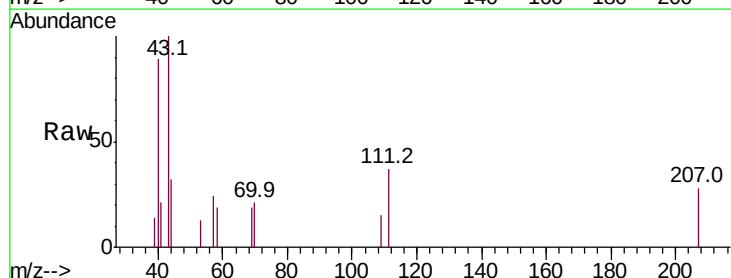
Acq: 20 Oct 2020 13:01

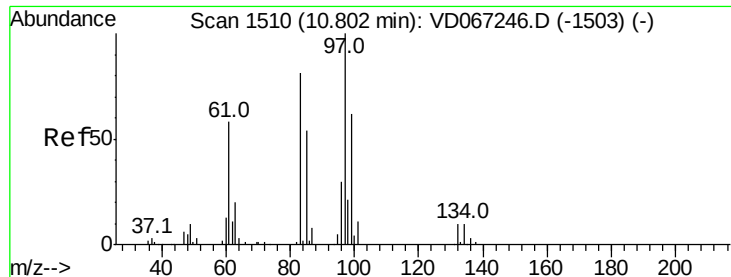
Tgt Ion: 43 Resp: 1920

Ion Ratio Lower Upper

43 100

58 29.2 35.7 53.5#

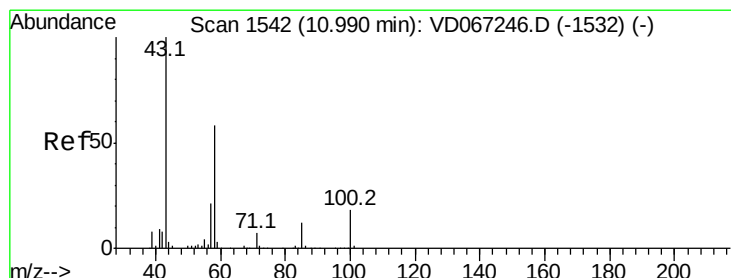
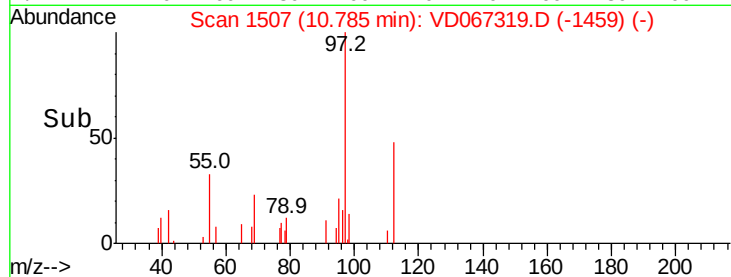
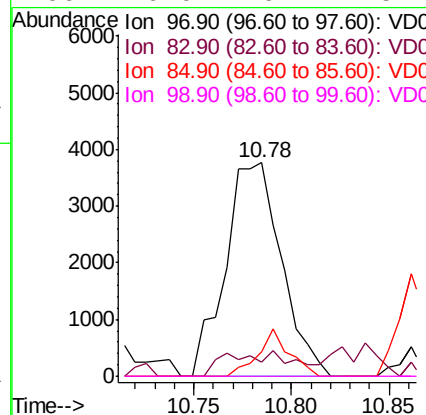
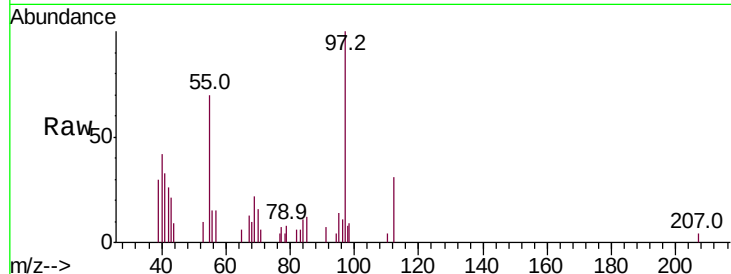




#55
 1,1,2-Trichloroethane
 Concen: 2.962 ug/l
 RT: 10.78 min Scan# 1507
 Delta R.T. -0.02 min
 Lab File: VD067319.D
 Acq: 20 Oct 2020 13:01

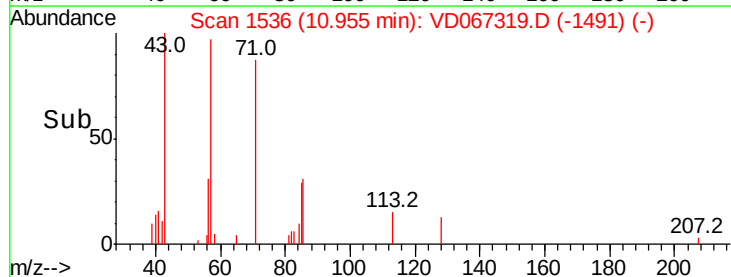
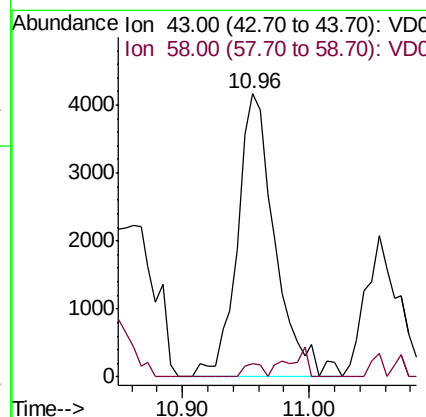
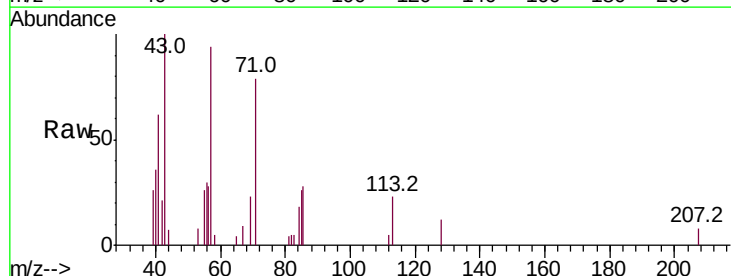
Instrument :
 MSVOA_D
 ClientSampleId :
 BS-DRUM

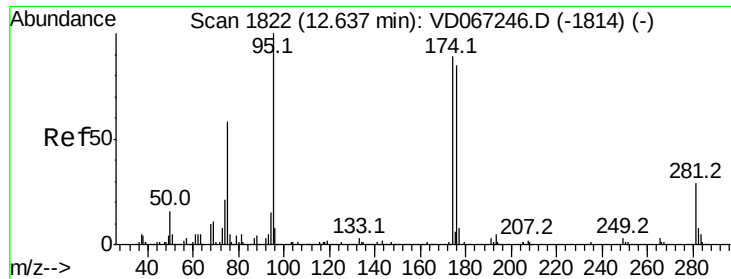
Tot Ion: 97 Resp: 7485
 Ion Ratio Lower Upper
 97 100
 83 6.3 64.9 97.3#
 85 11.6 43.3 64.9#
 99 0.0 49.1 73.7#



#59
 2-Hexanone
 Concen: 9.191 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. -0.04 min
 Lab File: VD067319.D
 Acq: 20 Oct 2020 13:01

Tgt Ion: 43 Resp: 8556
 Ion Ratio Lower Upper
 43 100
 58 2.2 29.3 87.9#

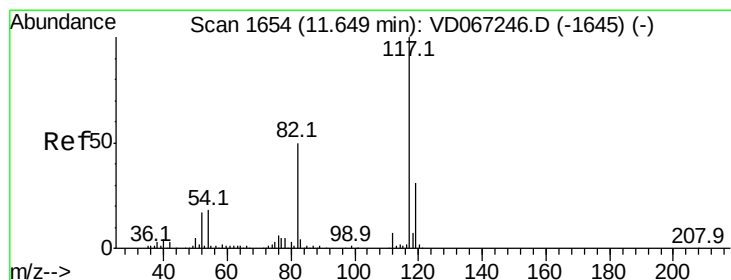
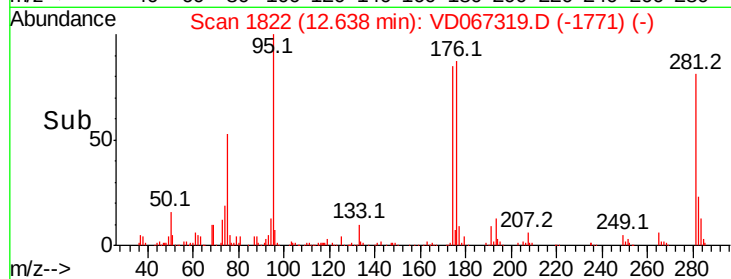
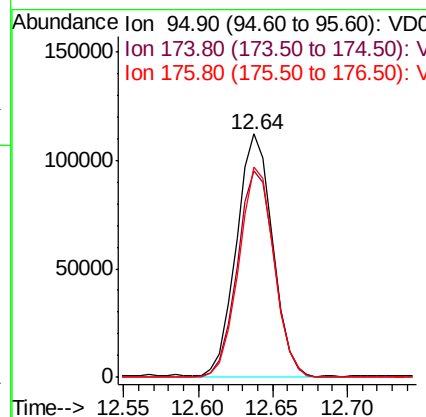
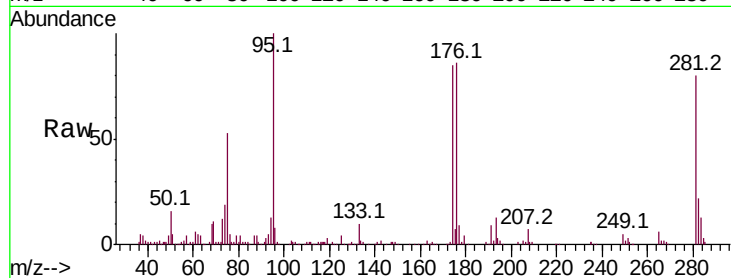




#62
4-Bromofluorobenzene
Concen: 40.867 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

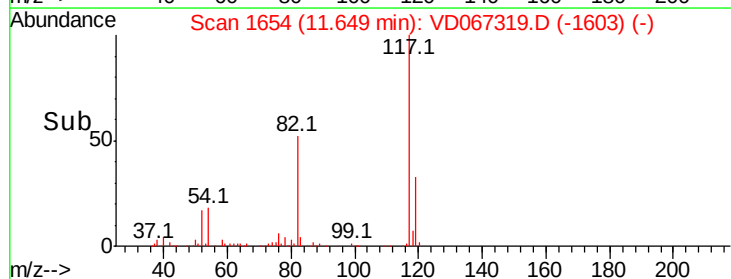
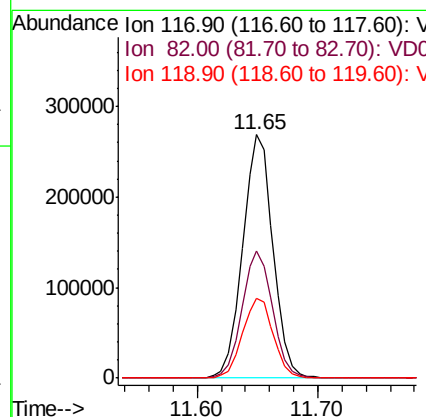
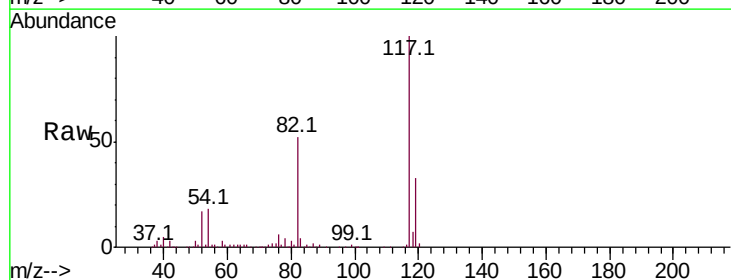
Instrument :
MSVOA_D
ClientSampled :
BS-DRUM

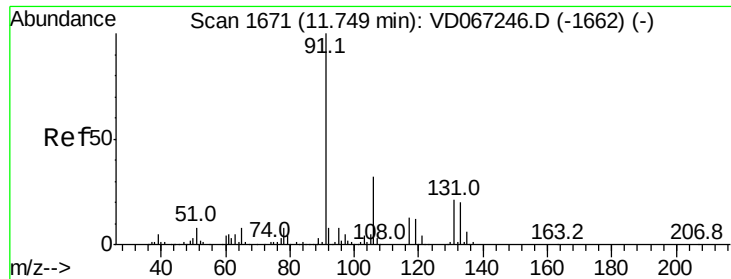
Tot Ion: 95 Resp: 188922
Ion Ratio Lower Upper
95 100
174 86.4 0.0 175.2
176 84.2 0.0 168.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Tgt Ion: 117 Resp: 468467
Ion Ratio Lower Upper
117 100
82 51.8 39.9 59.9
119 33.0 24.9 37.3

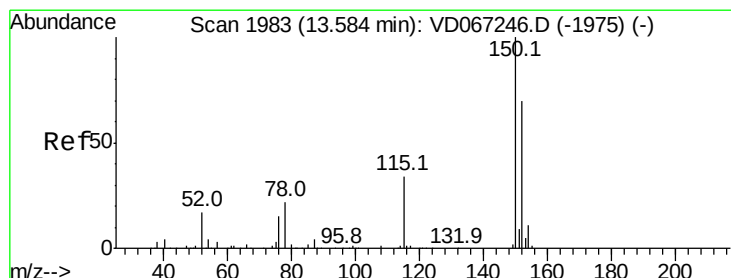
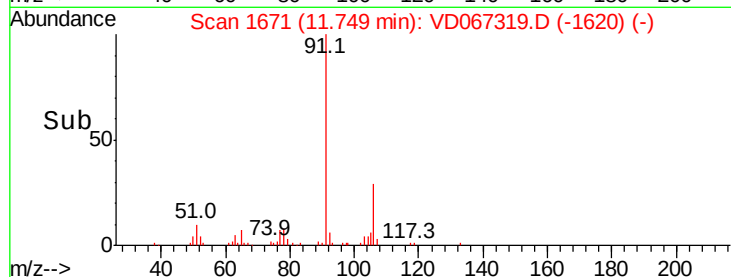
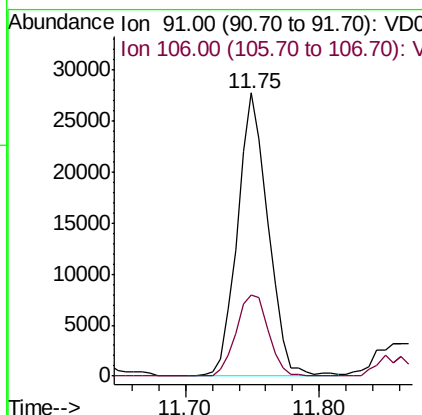
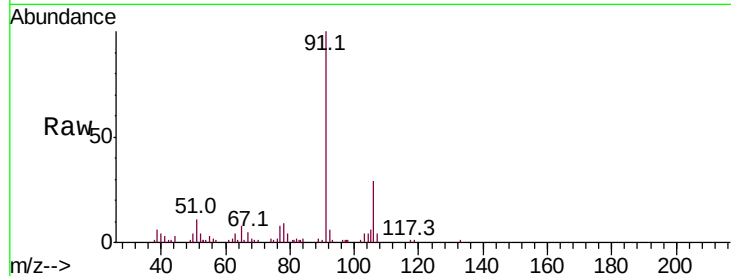




#67
Ethyl Benzene
Concen: 2.862 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

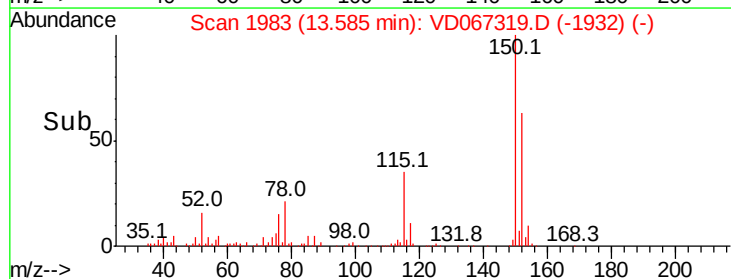
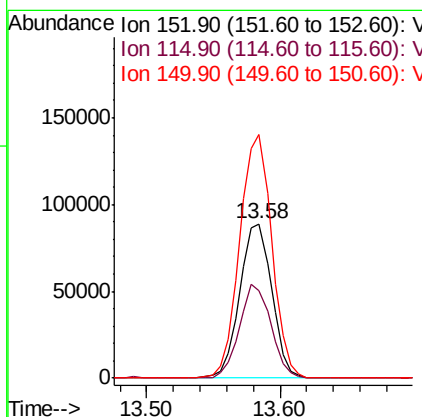
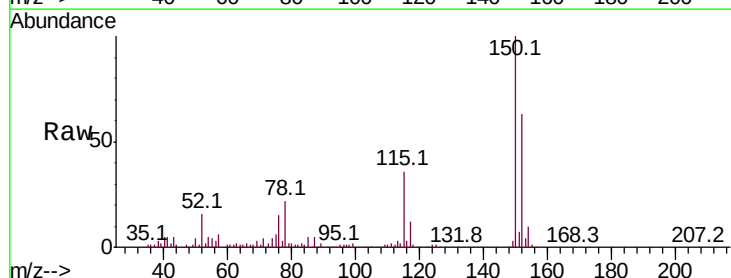
Instrument :
MSVOA_D
ClientSampleId :
BS-DRUM

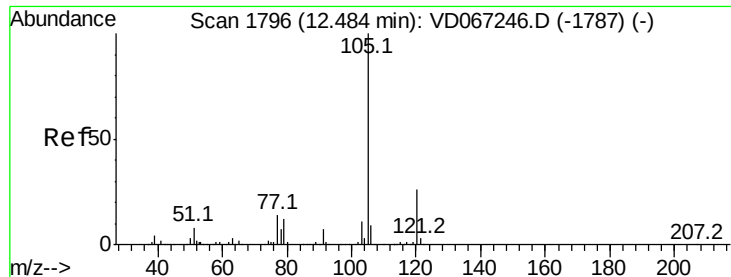
Tot Ion: 91 Resp: 44071
Ion Ratio Lower Upper
91 100
106 28.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Tgt Ion: 152 Resp: 147747
Ion Ratio Lower Upper
152 100
115 59.8 29.3 87.9
150 157.6 0.0 339.0





#73

Isopropylbenzene

Concen: 1.099 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

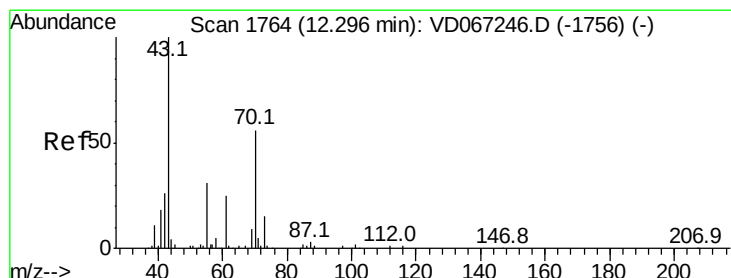
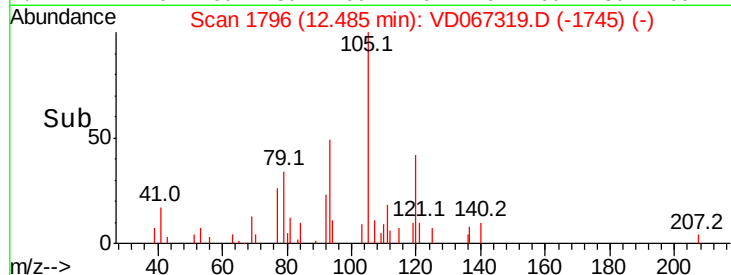
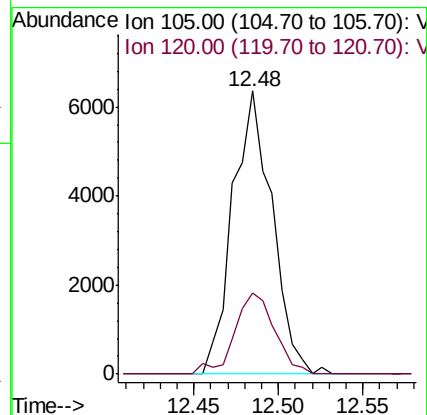
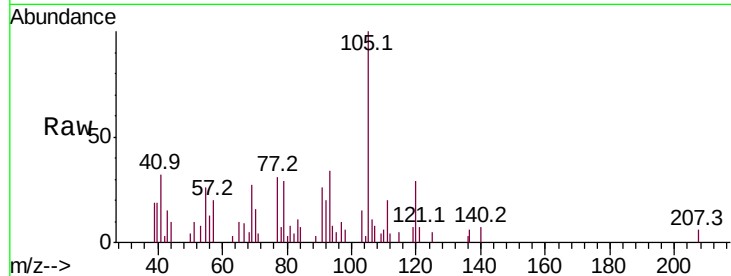
BS-DRUM

Tot Ion:105 Resp: 10309

Ion Ratio Lower Upper

105 100

120 29.1 13.3 39.8



#74

N-ethyl acetate

Concen: 4.383 ug/l

RT: 12.28 min Scan# 1761

Delta R.T. -0.02 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Tgt Ion: 43 Resp: 6208

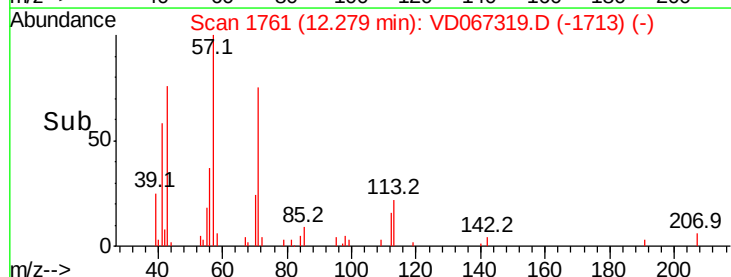
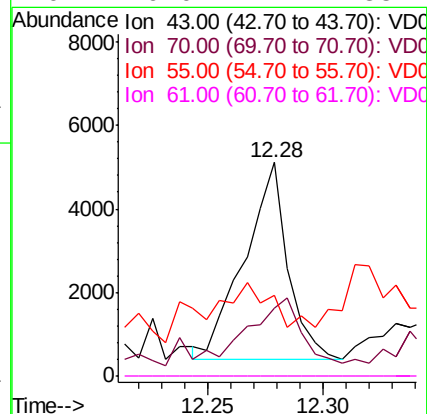
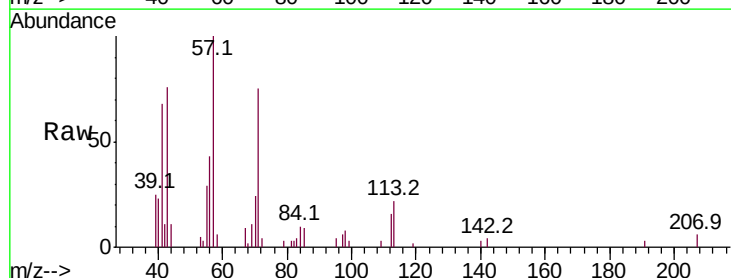
Ion Ratio Lower Upper

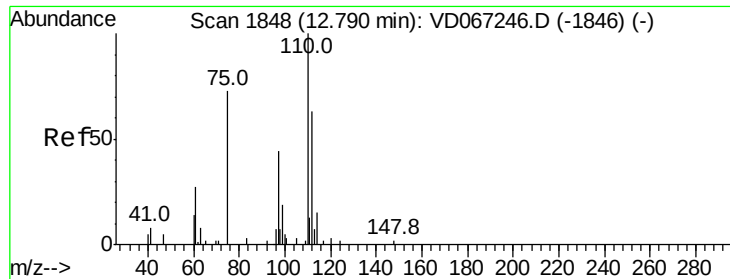
43 100

70 36.3 42.7 64.1#

55 28.0 24.0 36.0

61 0.0 22.2 33.4#





#76

1,2,3-Trichloropropane

Concen: 92.771 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

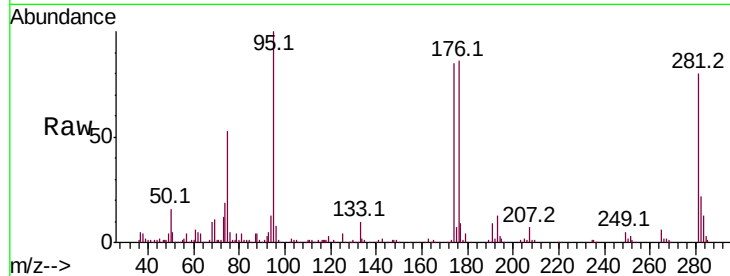
BS-DRUM

Tot Ion: 75 Resp: 95000

Ion Ratio Lower Upper

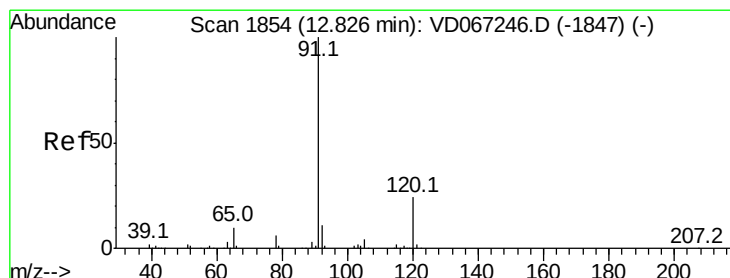
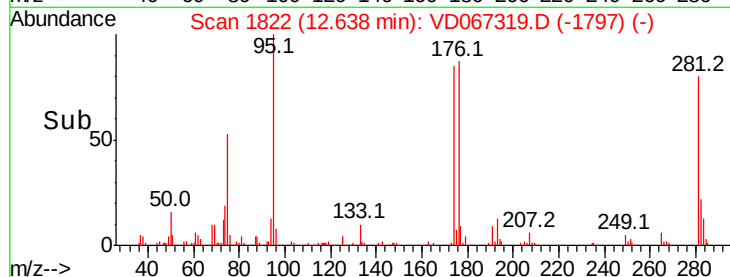
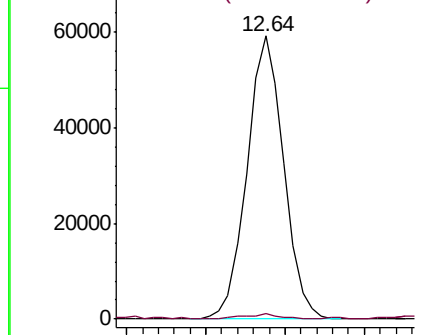
75 100

77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#78

n-propylbenzene

Concen: 1.239 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VD067319.D

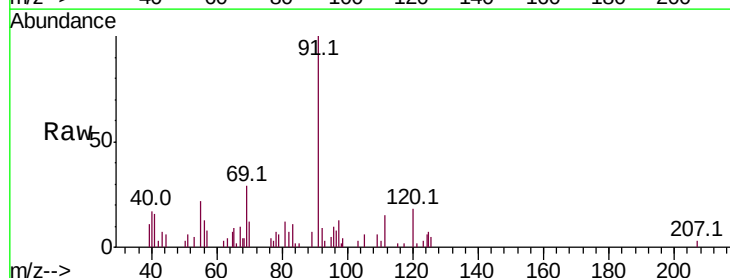
Acq: 20 Oct 2020 13:01

Tgt Ion: 91 Resp: 13462

Ion Ratio Lower Upper

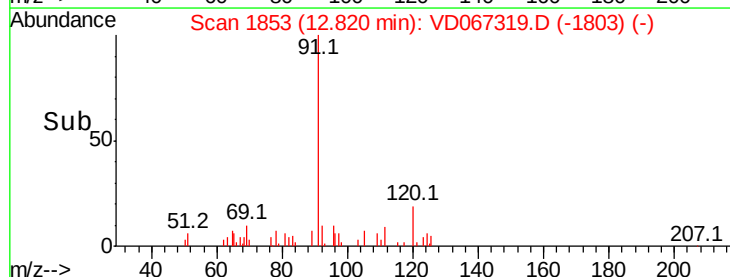
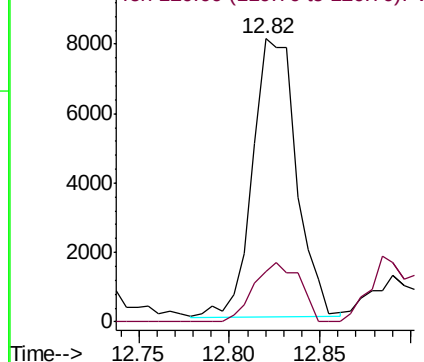
91 100

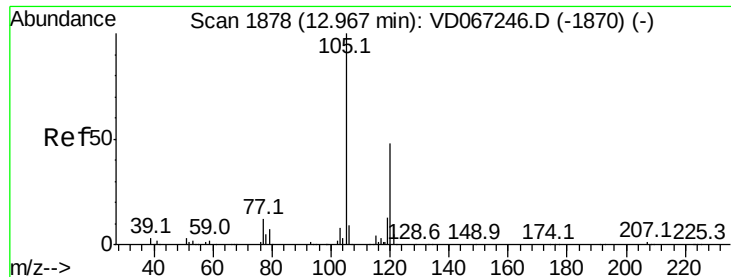
120 22.4 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.648 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

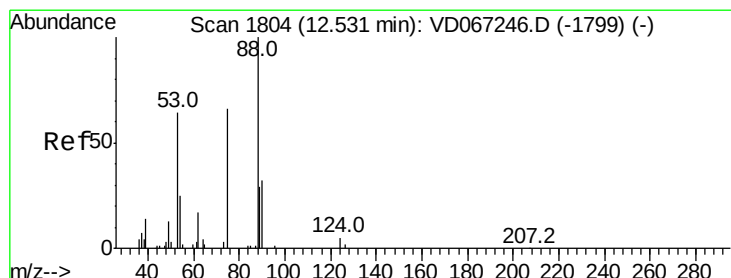
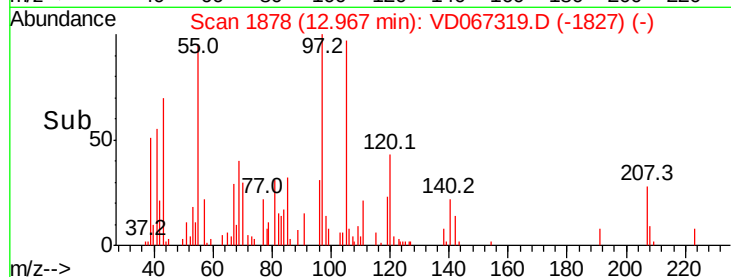
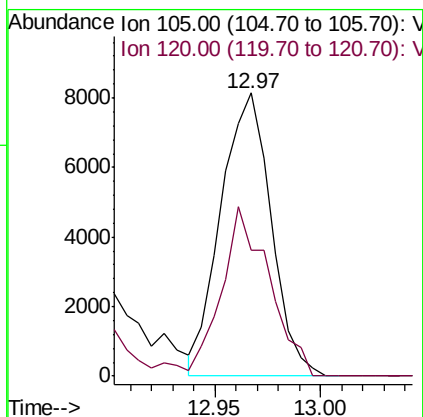
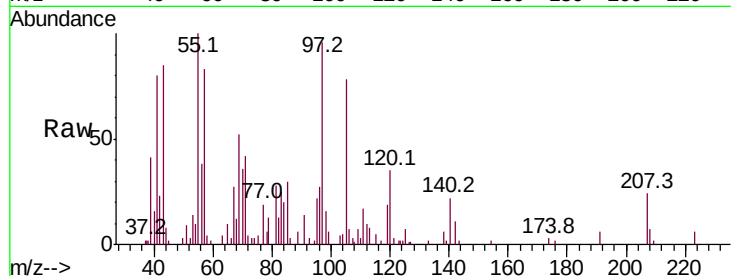
BS-DRUM

Tot Ion:105 Resp: 13427

Ion Ratio Lower Upper

105 100

120 56.8 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 210.377 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

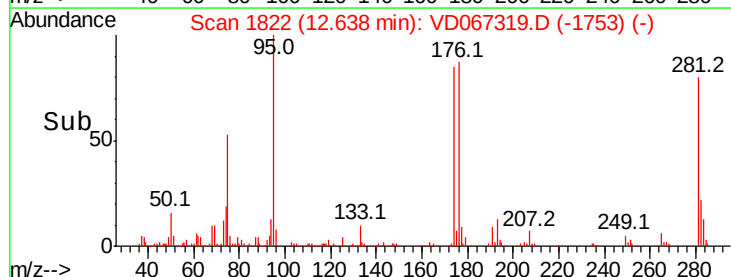
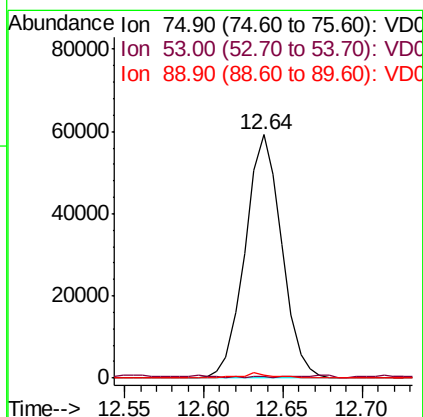
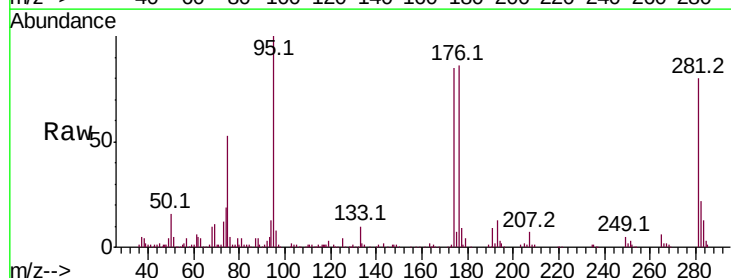
Tgt Ion: 75 Resp: 95000

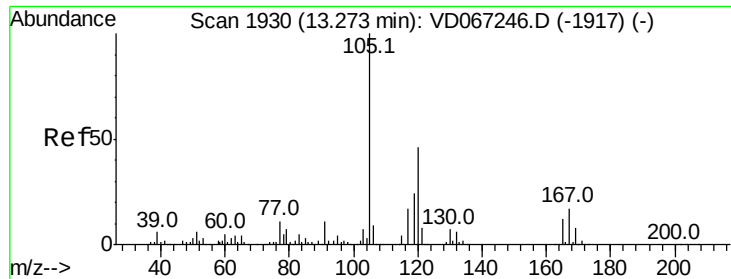
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 1.6 39.9 59.9#





#84

1,2,4-Trimethylbenzene

Concen: 3.344 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067319.D

Acq: 20 Oct 2020 13:01

Instrument :

MSVOA_D

ClientSampleId :

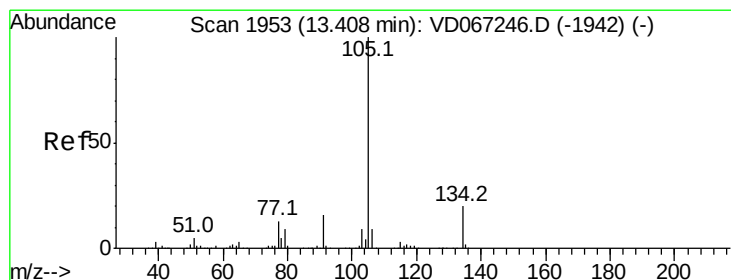
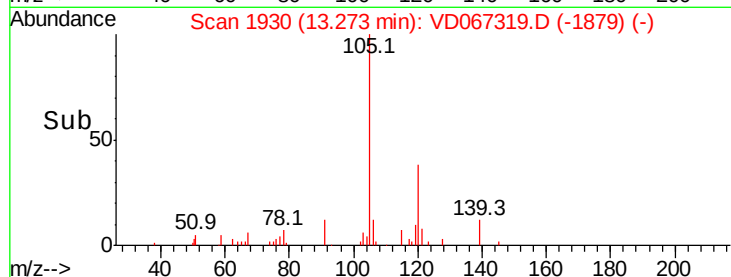
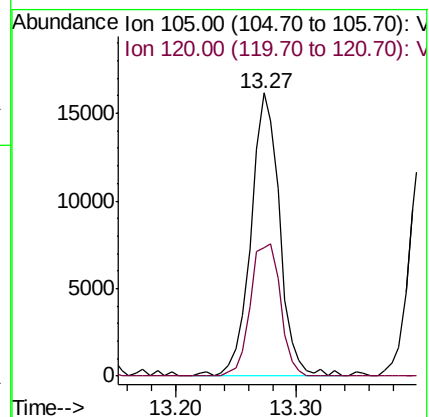
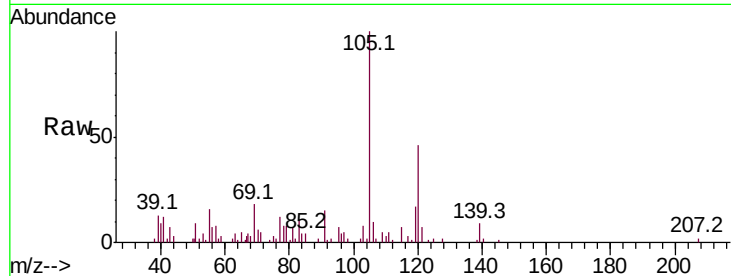
BS-DRUM

Tot Ion:105 Resp: 26929

Ion Ratio Lower Upper

105 100

120 48.8 22.4 67.3



#85

sec-Butylbenzene

Concen: 2.648 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD067319.D

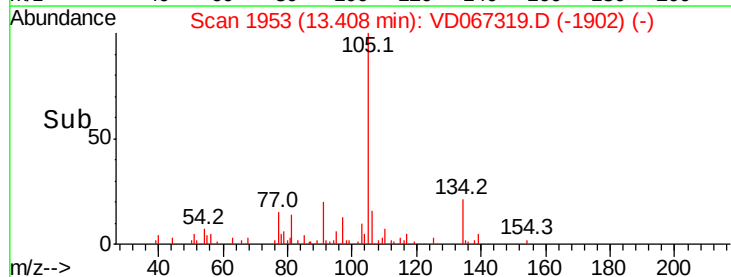
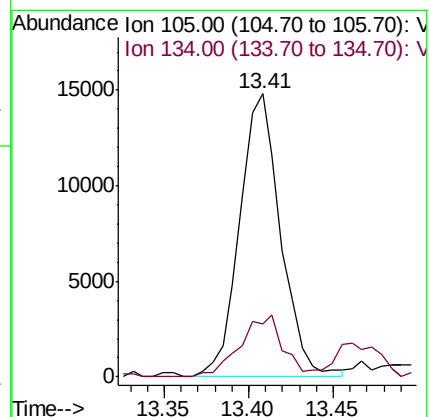
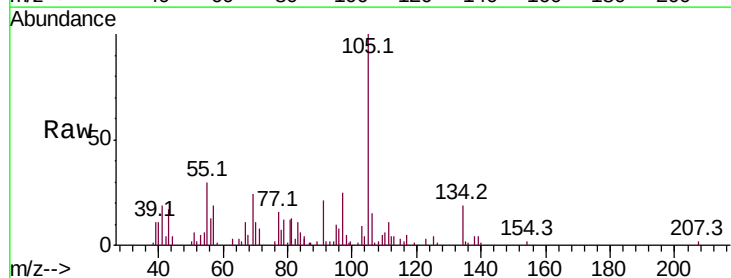
Acq: 20 Oct 2020 13:01

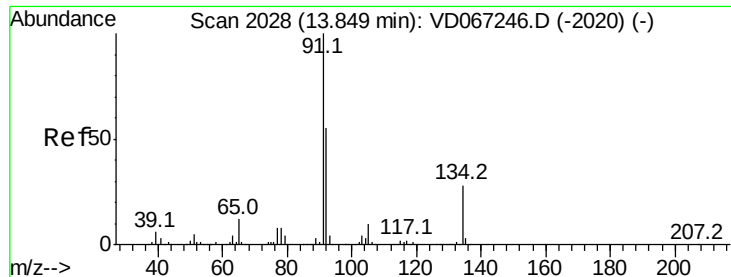
Tgt Ion:105 Resp: 25010

Ion Ratio Lower Upper

105 100

134 23.0 10.5 31.5

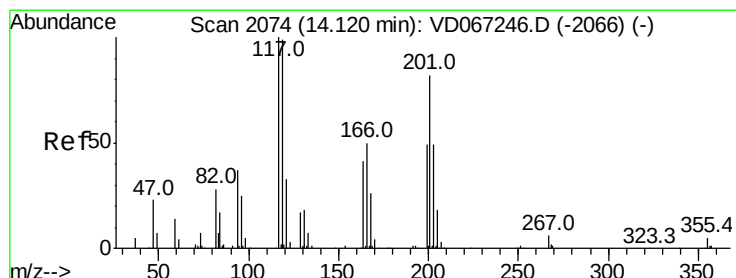
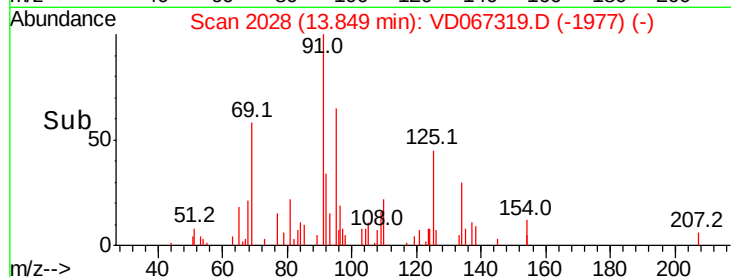
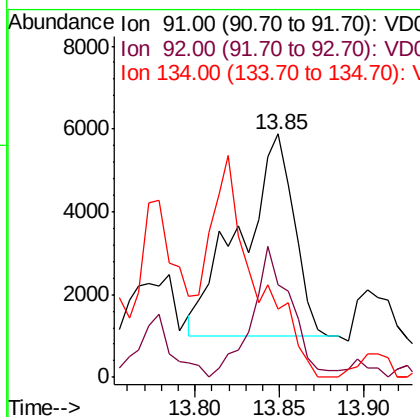
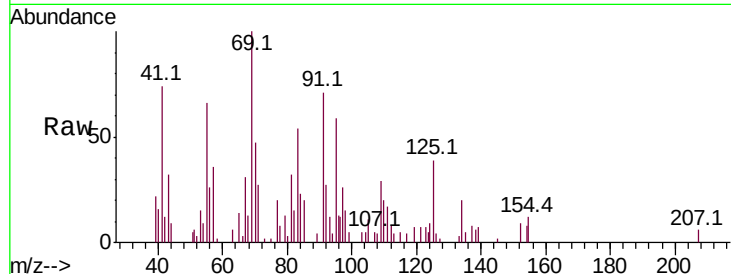




#89
n-Butylbenzene
Concen: 1.376 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Instrument :
MSVOA_D
ClientSampleId :
BS-DRUM

Tot Ion: 91 Resp: 10790
Ion Ratio Lower Upper
91 100
92 47.2 26.7 80.0
134 0.0 14.2 42.6#



#90
Hexachloroethane
Concen: 1.678 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.01 min
Lab File: VD067319.D
Acq: 20 Oct 2020 13:01

Tgt Ion: 117 Resp: 2611
Ion Ratio Lower Upper
117 100
201 0.0 40.8 122.2#

