

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050819\
 Data File : VD062168.D
 Acq On : 8 May 2019 12:31
 Operator : FY/SY
 Sample : K2672-13
 Misc : 5.09g/5mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-07-1.5-2.0

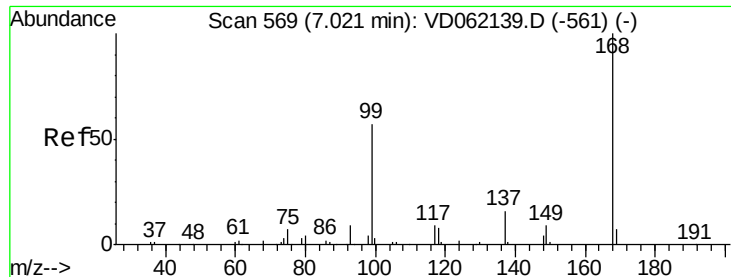
Quant Time: May 09 01:23:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	61277	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	106262	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	91861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	33946	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	58726	103.13	ug/l	0.00
Spiked Amount			Recovery	=	206.26%	
35) Dibromofluoromethane	6.90	113	55832	63.33	ug/l	0.01
Spiked Amount			Recovery	=	126.66%	
50) Toluene-d8	10.39	98	89846	42.27	ug/l	0.00
Spiked Amount			Recovery	=	84.54%	
62) 4-Bromofluorobenzene	13.54	95	38241	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	2807	28.784	ug/l #	12
10) Methyl Iodide	3.29	142	3266	3.531	ug/l #	86
16) Acetone	3.19	43	1831	15.332	ug/l #	50
20) Methylene Chloride	3.80	84	1554	3.117	ug/l #	72
36) 1,1-Dichloropropene	7.02	75	4272	4.903	ug/l #	40
59) 2-Hexanone	11.51	43	415	1.672	ug/l #	27
77) Bromobenzene	13.66	156	601	1.055	ug/l	89
81) trans-1,4-Dichloro-2-buten	13.54	75	15680	137.679	ug/l #	16
82) 4-Chlorotoluene	13.94	91	1930	1.180	ug/l	85
84) 1,2,4-Trimethylbenzene	14.23	105	1890	1.099	ug/l	95
87) 1,3-Dichlorobenzene	14.44	146	1949	1.873	ug/l	81
88) 1,4-Dichlorobenzene	14.52	146	2236	2.187	ug/l	77
89) n-Butylbenzene	14.79	91	1932	1.141	ug/l	85
91) 1,2-Dichlorobenzene	14.80	146	1355	1.581	ug/l	72
93) 1,2,4-Trichlorobenzene	15.94	180	1507	2.416	ug/l #	68
95) Naphthalene	16.12	128	4055	4.656	ug/l #	94
96) 1,2,3-Trichlorobenzene	16.26	180	1424	3.631	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

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MSVOA_D

ClientSampleId :

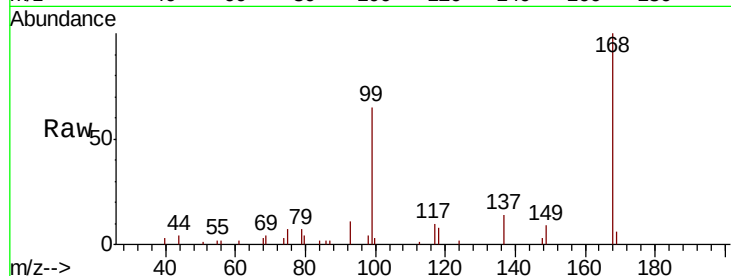
SB-07-1.5-2.0

Tot Ion:168 Resp: 61277

Ion Ratio Lower Upper

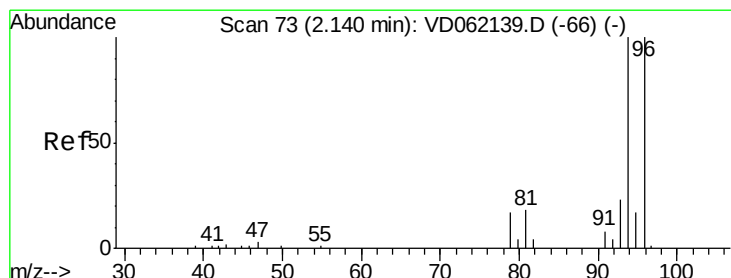
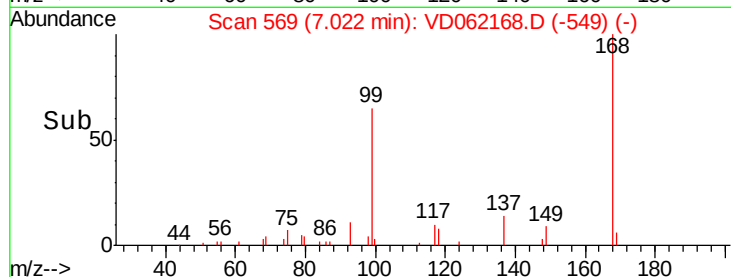
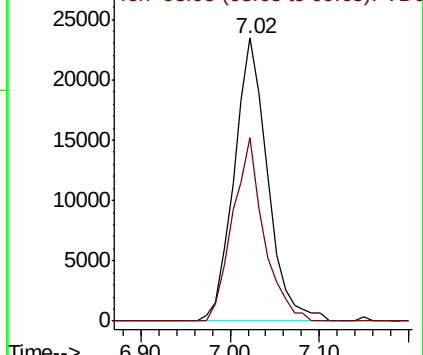
168 100

99 64.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 28.784 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

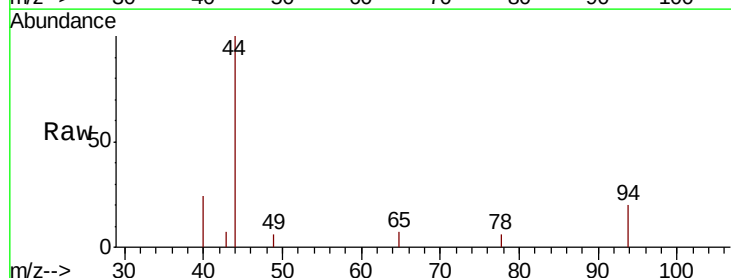
Tgt Ion: 94 Resp: 2807

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

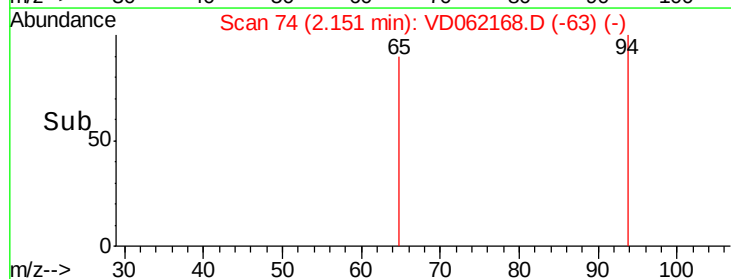
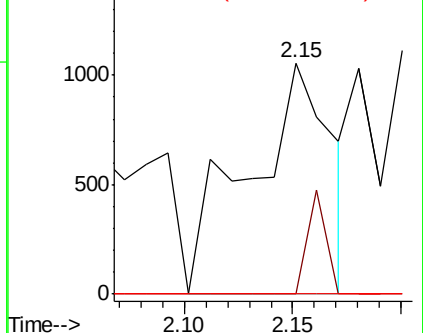
93 0.0 18.5 27.7#

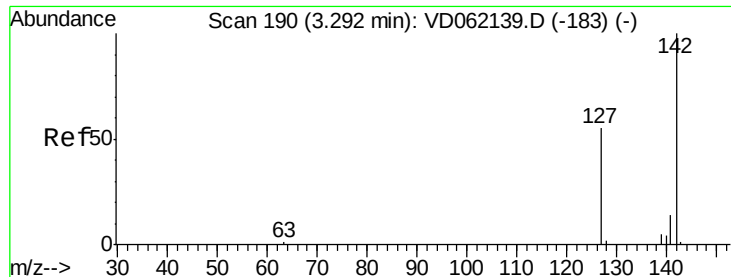


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

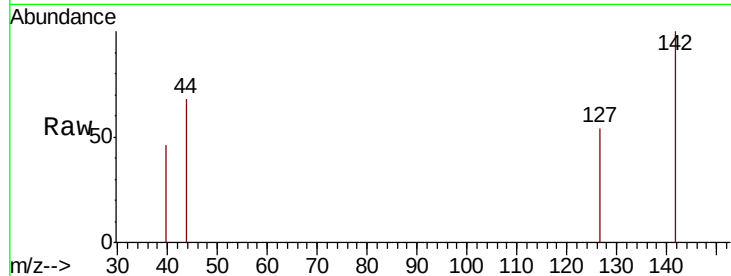




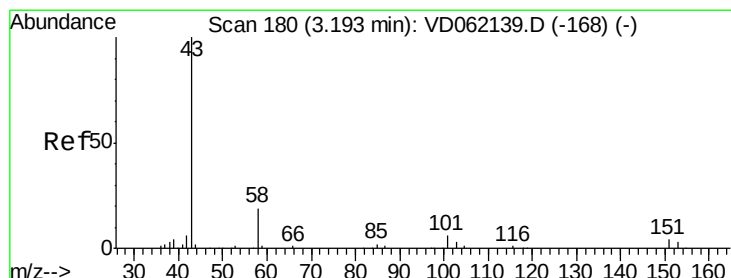
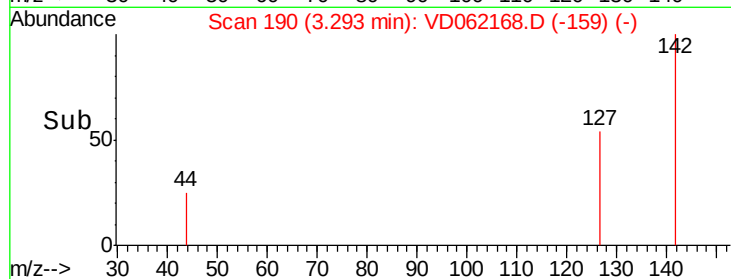
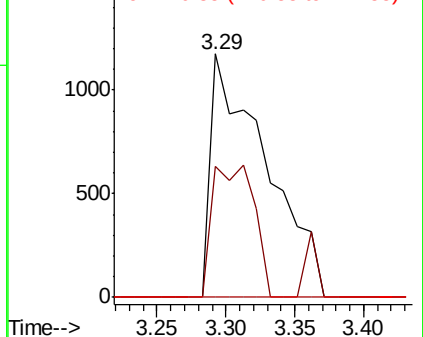
#10
Methvl Iodide
Concen: 3.531 ug/l
RT: 3.29 min Scan# 190
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Instrument :
MSVOA_D
ClientSampleId :
SB-07-1.5-2.0

Tot Ion:142 Resp: 3266
Ion Ratio Lower Upper
142 100
127 53.8 38.8 58.2
141 0.0 11.4 17.0#

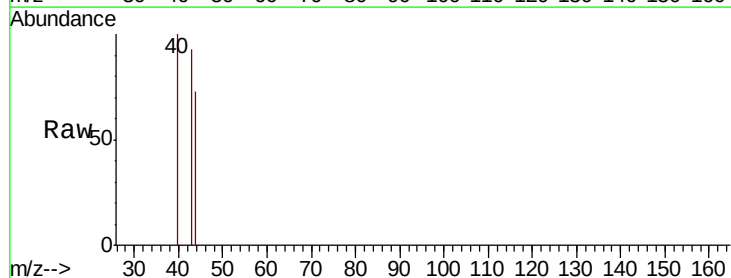


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

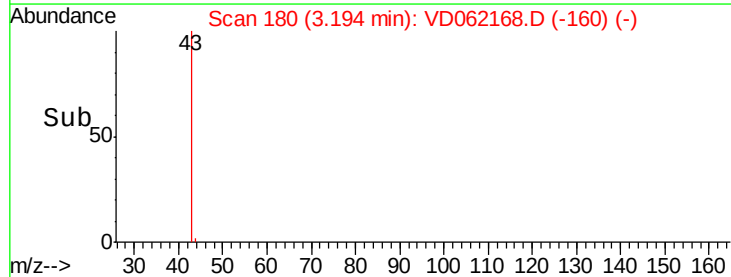
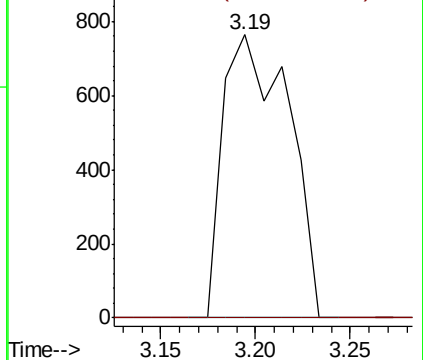


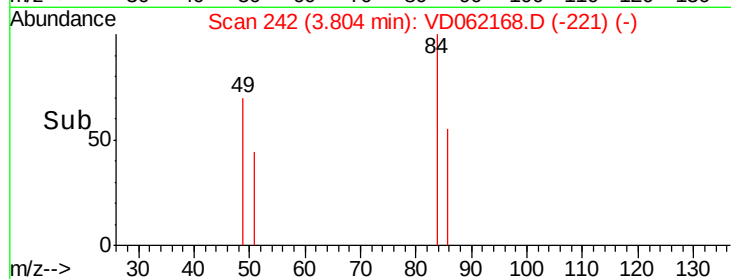
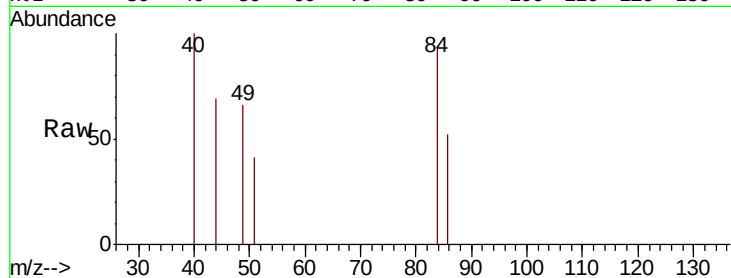
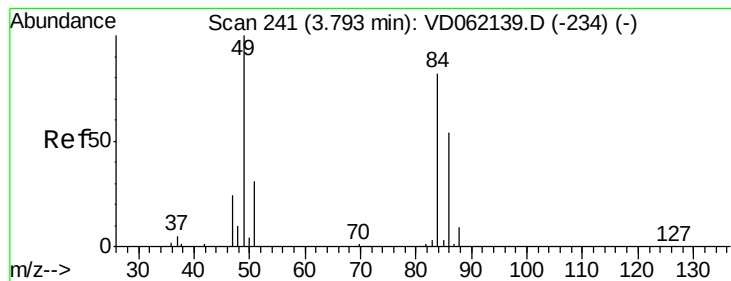
#16
Acetone
Concen: 15.332 ug/l
RT: 3.19 min Scan# 180
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Tgt Ion: 43 Resp: 1831
Ion Ratio Lower Upper
43 100
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#20

Methylene Chloride

Concen: 3.117 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

Instrument :

MSVOA_D

ClientSampleId :

SB-07-1.5-2.0

Tot Ion: 84 Resp: 1554

Ion Ratio Lower Upper

84 100

49 70.3 94.0 141.0#

51 43.8 29.0 43.4#

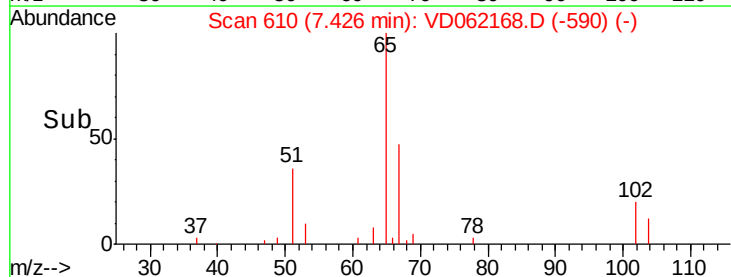
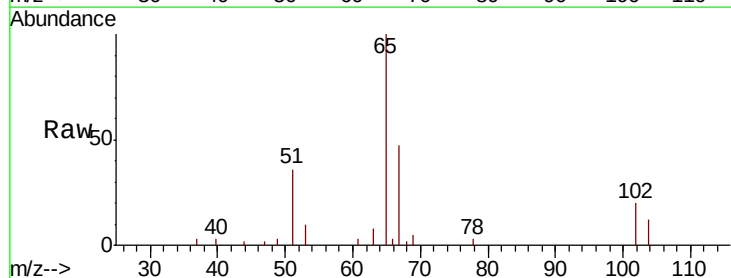
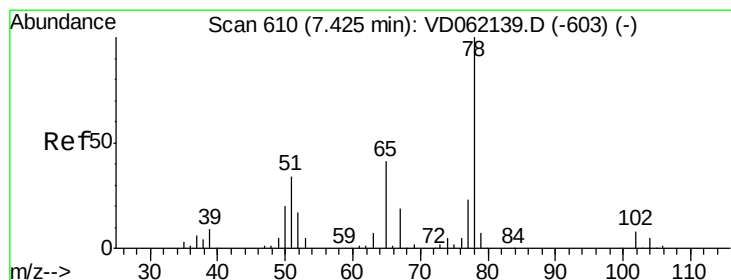
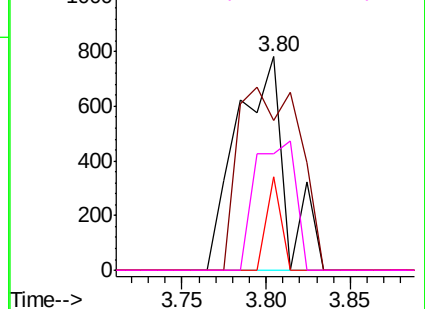
86 54.7 49.8 74.6

Abundance Ion 83.95 (83.65 to 84.65): 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



#33

1,2-Dichloroethane-d4

Concen: 103.127 ug/l

RT: 7.43 min Scan# 610

Delta R.T. 0.00 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

Tgt Ion: 65 Resp: 58726

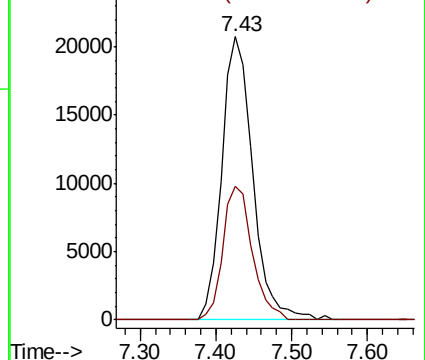
Ion Ratio Lower Upper

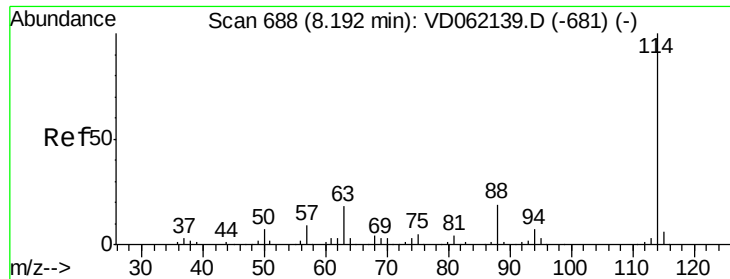
65 100

67 47.1 0.0 98.0

Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

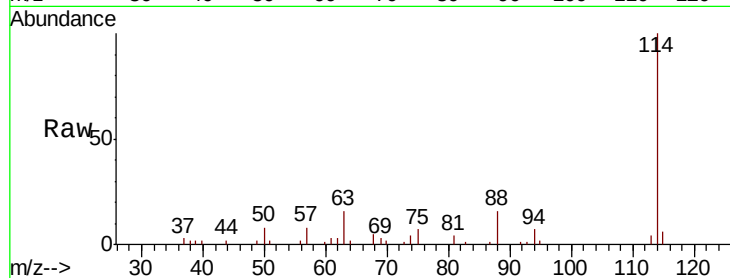




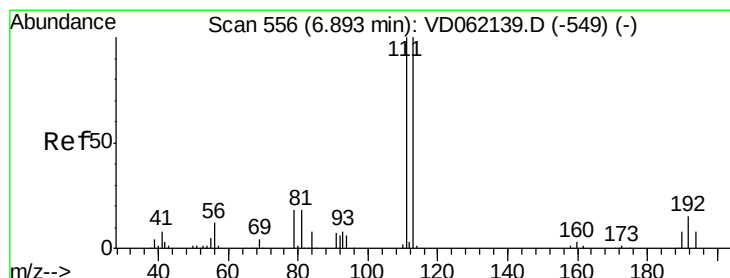
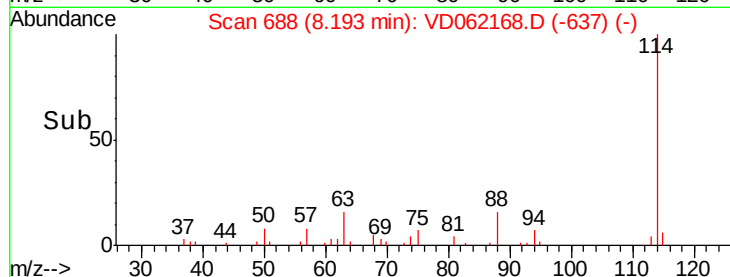
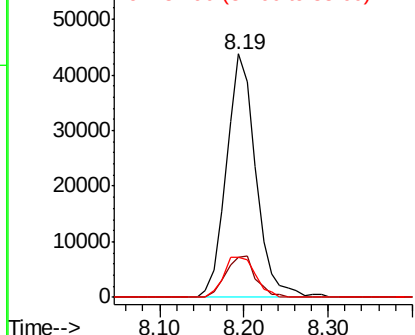
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 688
 Delta R.T. 0.00 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-07-1.5-2.0

Tot Ion:114 Resp: 106262
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 32.4
 88 16.4 0.0 33.6

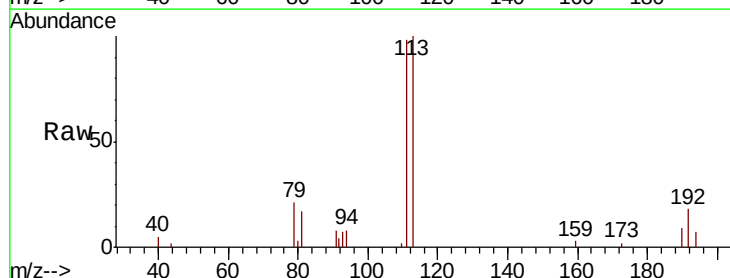


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

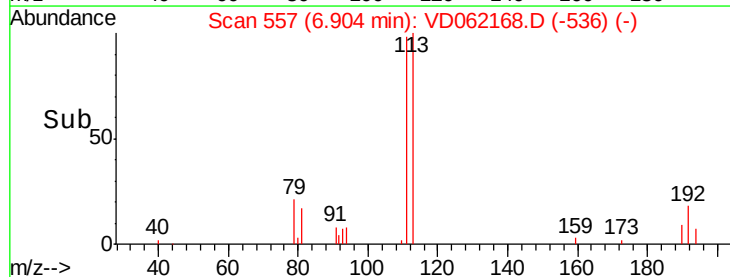
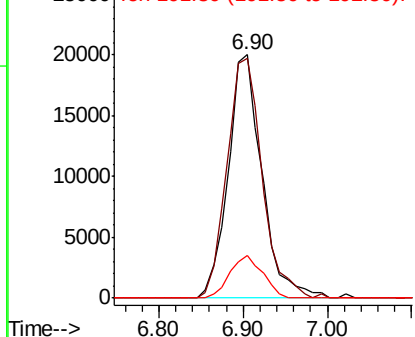


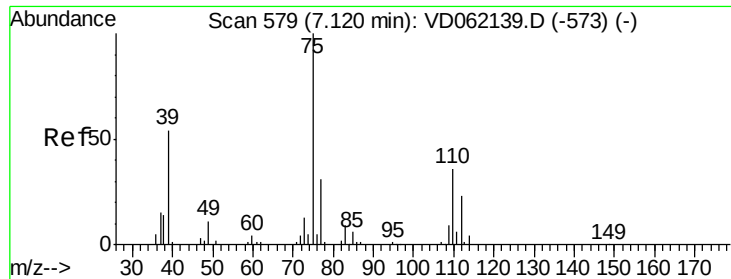
#35
 Dibromofluoromethane
 Concen: 63.325 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. 0.01 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Tgt Ion:113 Resp: 55832
 Ion Ratio Lower Upper
 113 100
 111 98.4 78.5 117.7
 192 17.7 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

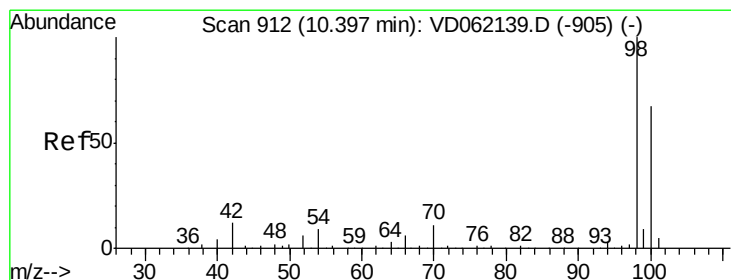
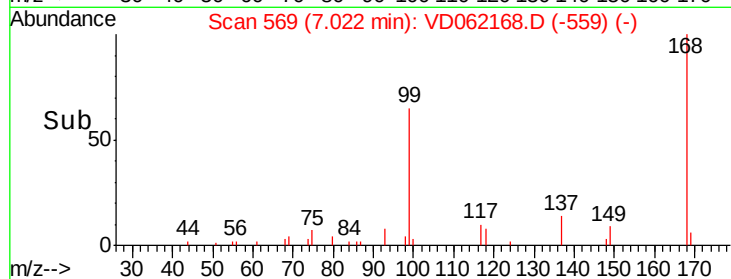
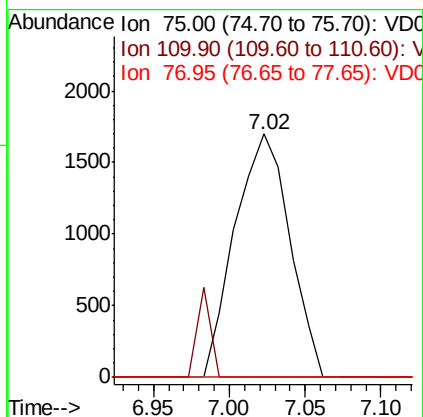
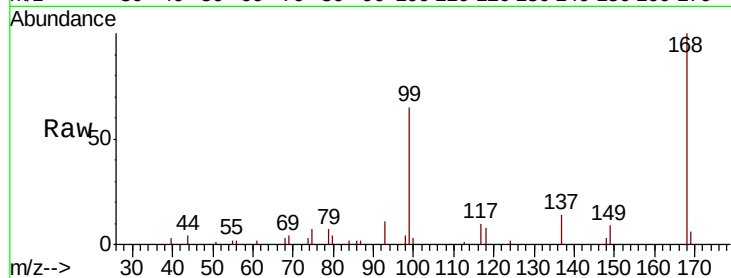




#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 7.02 min Scan# 569
 Delta R.T. -0.10 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

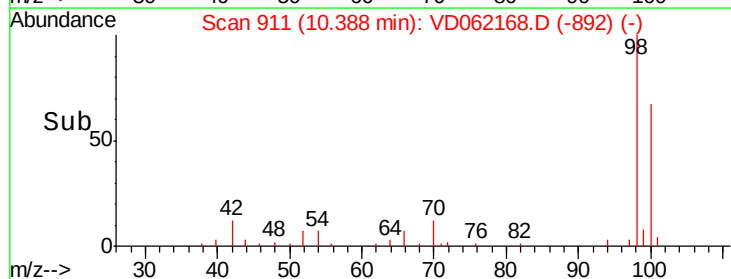
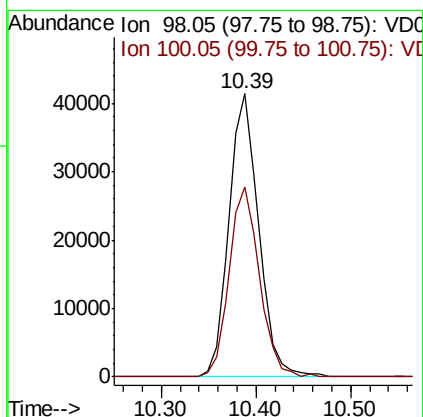
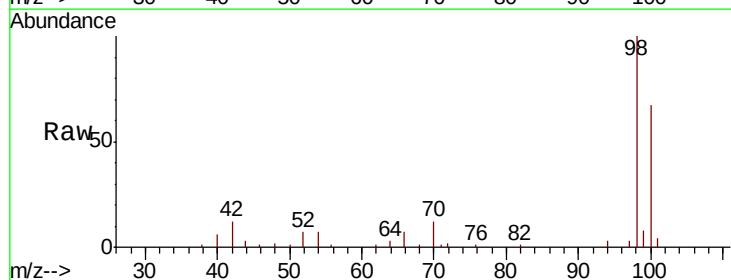
Instrument :
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 ClientSampleId :
 SB-07-1.5-2.0

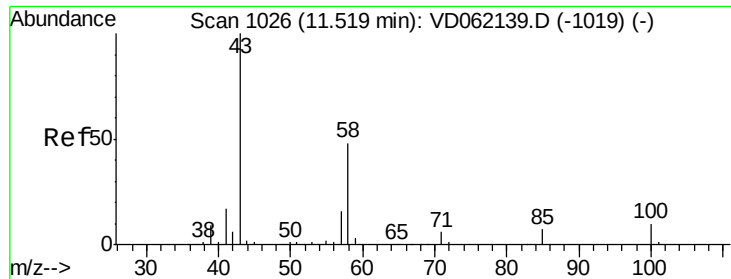
Tot Ion: 75 Resp: 4272
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 0.0 25.6 38.4#



#50
 Toluene-d8
 Concen: 42.265 ug/l
 RT: 10.39 min Scan# 911
 Delta R.T. -0.01 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Tgt Ion: 98 Resp: 89846
 Ion Ratio Lower Upper
 98 100
 100 67.0 53.8 80.8

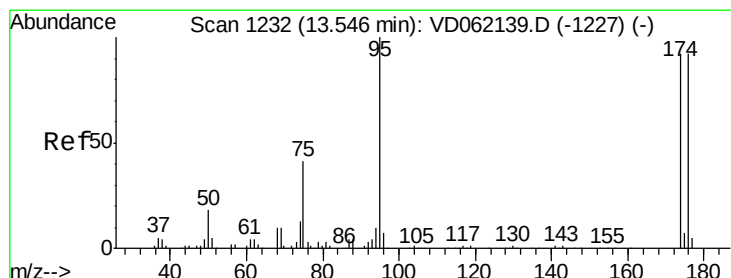
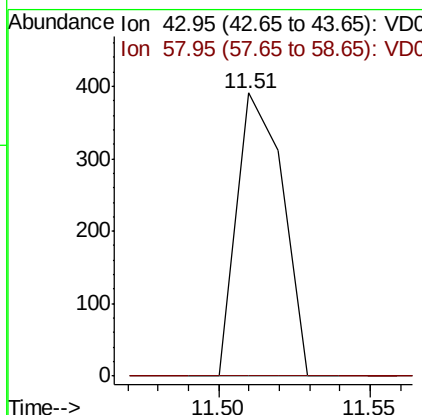
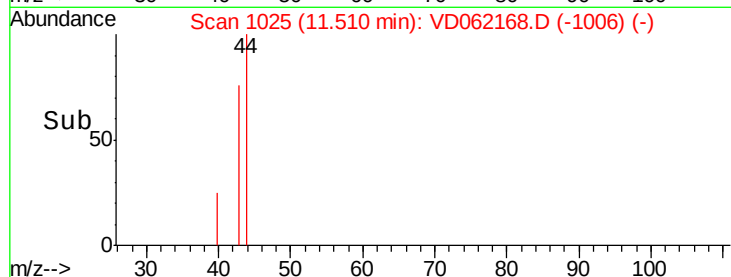
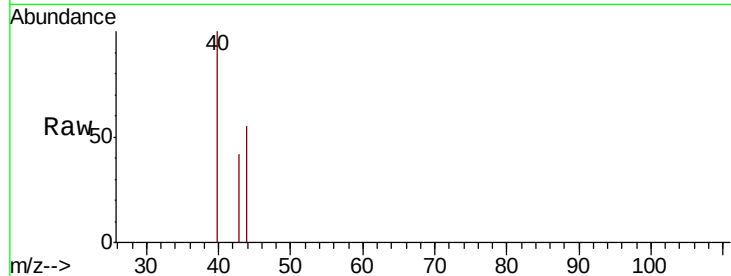




#59
2-Hexanone
Concen: 1.672 ug/l
RT: 11.51 min Scan# 1025
Delta R.T. -0.01 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

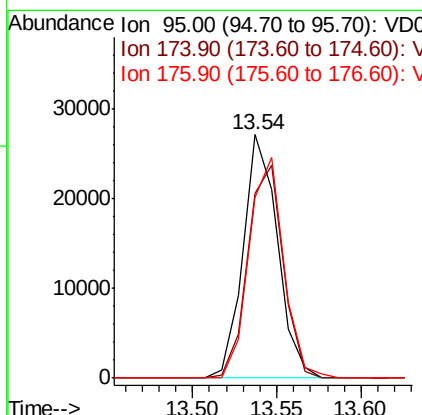
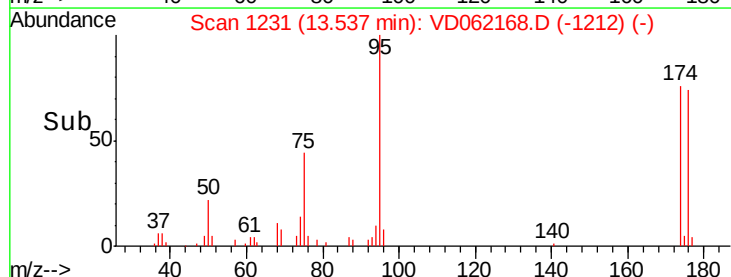
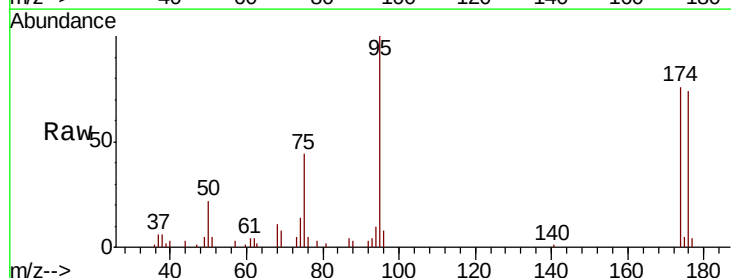
Instrument :
MSVOA_D
ClientSampleId :
SB-07-1.5-2.0

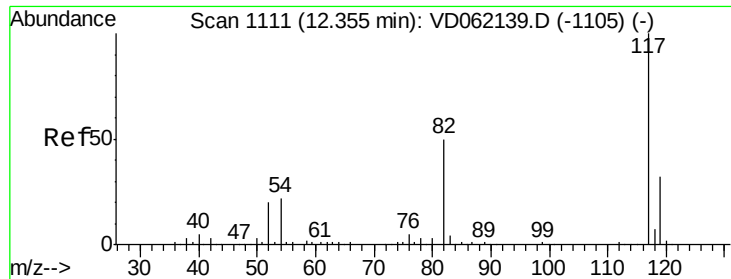
Tot Ion: 43 Resp: 415
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 44.798 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Tgt Ion: 95 Resp: 38241
Ion Ratio Lower Upper
95 100
174 75.8 0.0 181.8
176 74.5 0.0 174.4

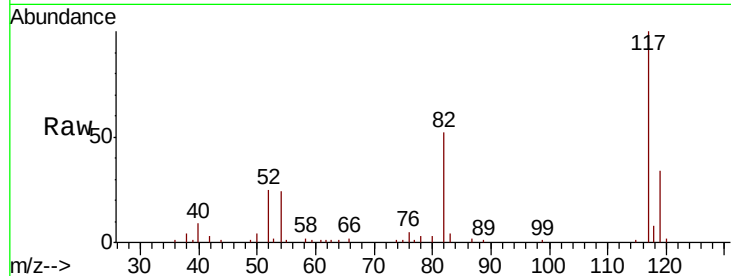




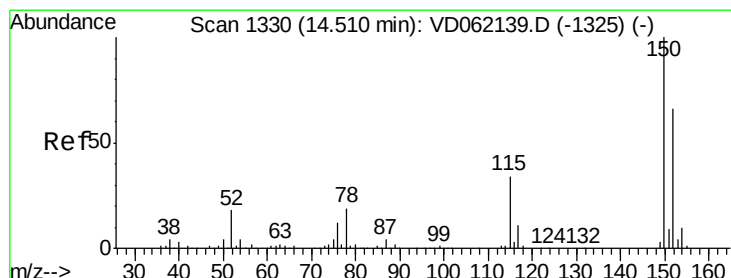
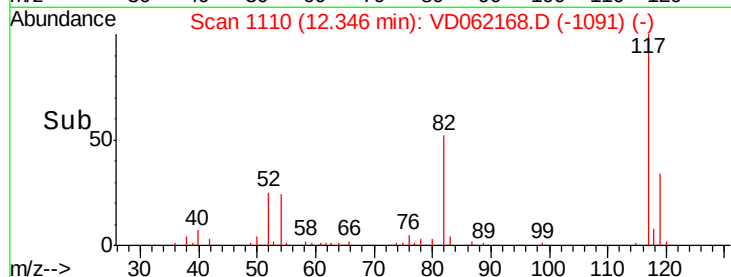
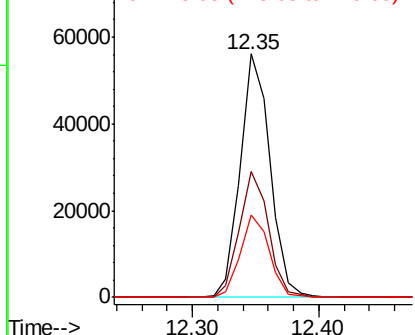
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Instrument :
MSVOA_D
ClientSampleId :
SB-07-1.5-2.0

Tot Ion:117 Resp: 91861
Ion Ratio Lower Upper
117 100
82 51.5 36.2 54.2
119 33.8 26.2 39.4

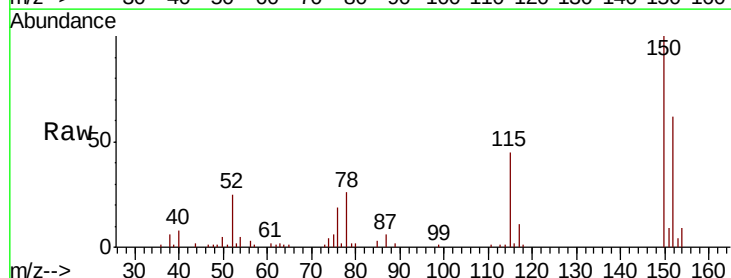


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

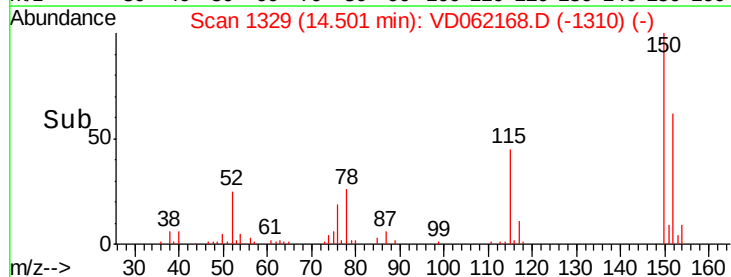
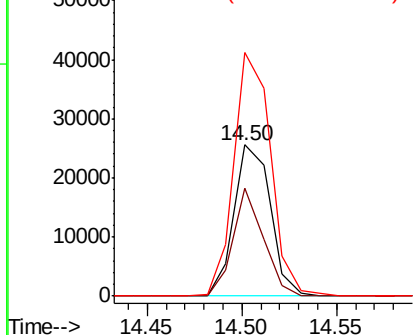


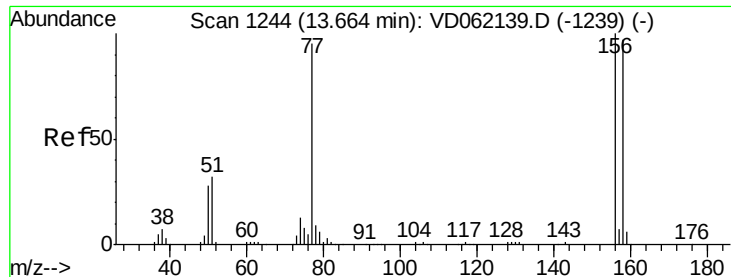
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Tgt Ion:152 Resp: 33946
Ion Ratio Lower Upper
152 100
115 71.6 30.9 92.7
150 160.9 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#77

Bromobenzene

Concen: 1.055 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

Instrument :

MSVOA_D

ClientSampleId :

SB-07-1.5-2.0

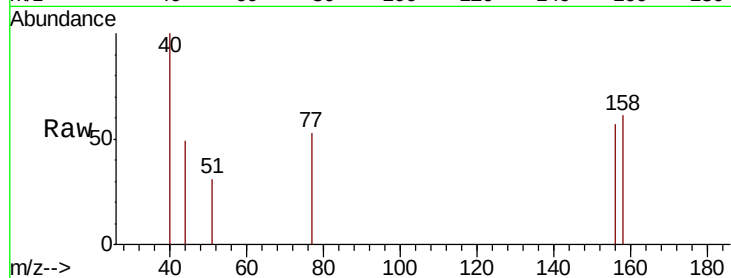
Tot Ion:156 Resp: 601

Ion Ratio Lower Upper

156 100

77 92.5 53.1 159.4

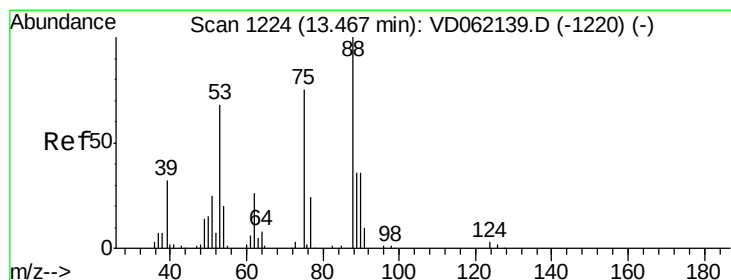
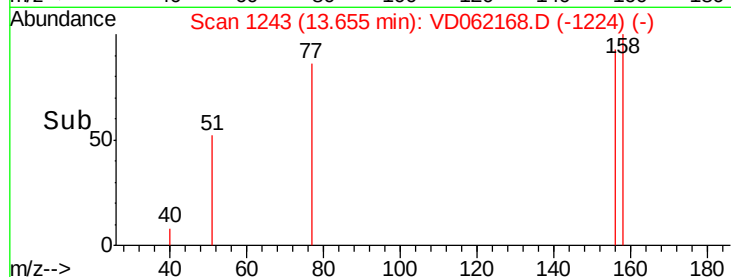
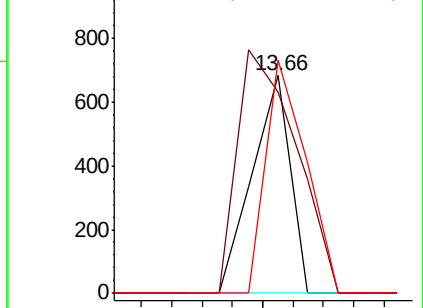
158 107.2 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#81

trans-1,4-Dichloro-2-butene

Concen: 137.679 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

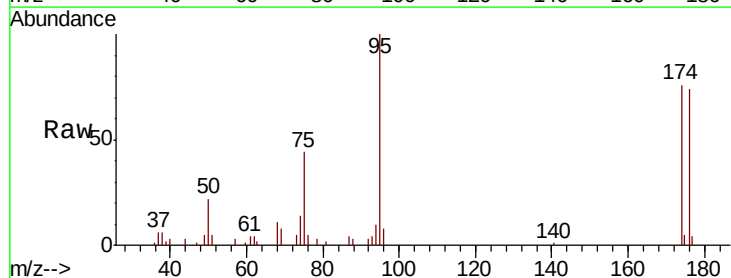
Tgt Ion: 75 Resp: 15680

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

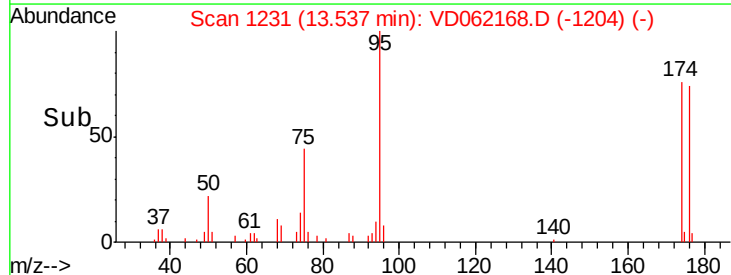
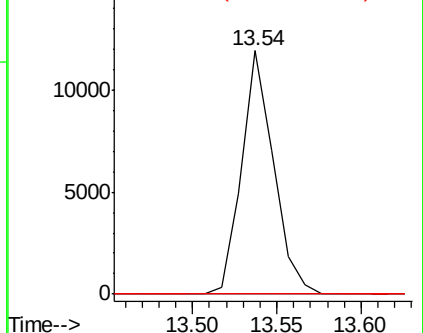
89 0.0 35.0 52.6#

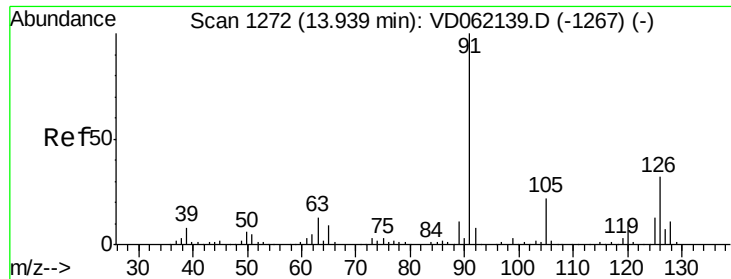


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

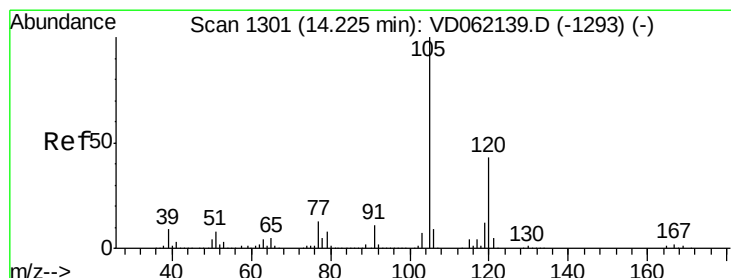
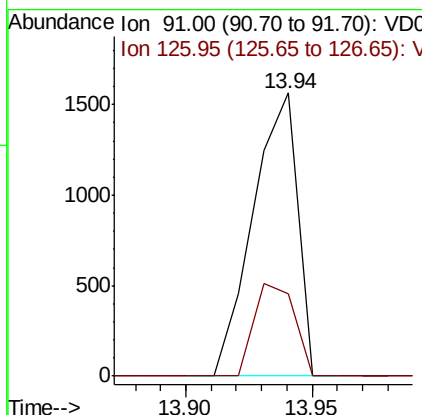
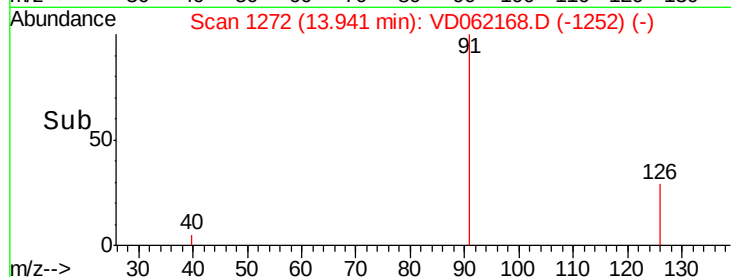
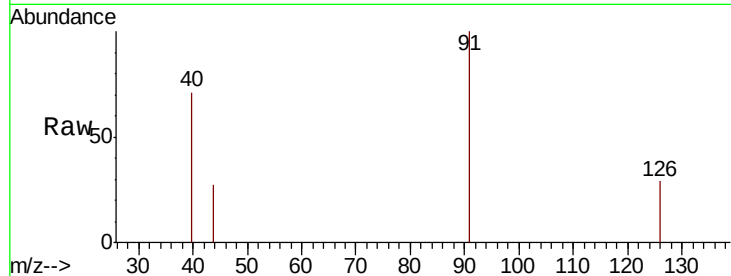




#82
4-Chlorotoluene
Concen: 1.180 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

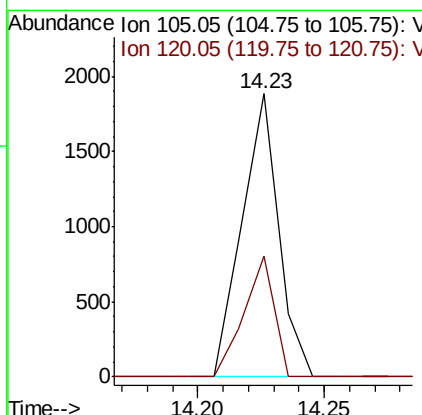
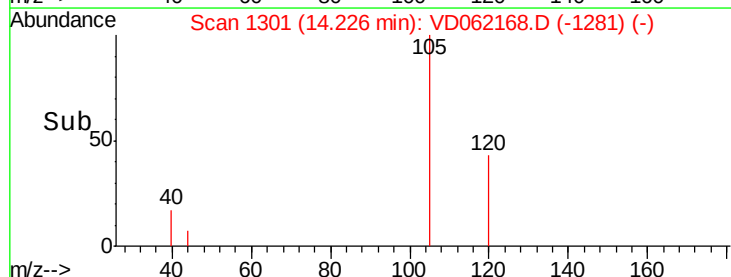
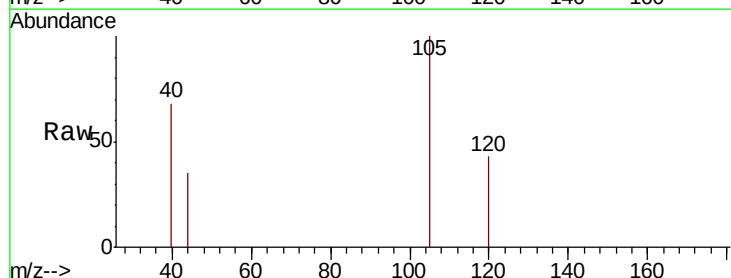
Instrument :
MSVOA_D
ClientSampleId :
SB-07-1.5-2.0

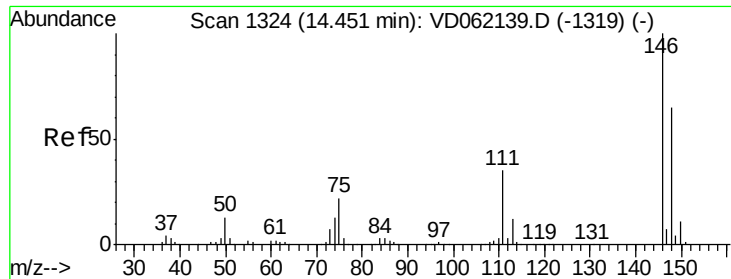
Tot Ion: 91 Resp: 1930
Ion Ratio Lower Upper
91 100
126 29.3 19.1 57.5



#84
1,2,4-Trimethylbenzene
Concen: 1.099 ug/l
RT: 14.23 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Tgt Ion:105 Resp: 1890
Ion Ratio Lower Upper
105 100
120 42.7 23.1 69.2

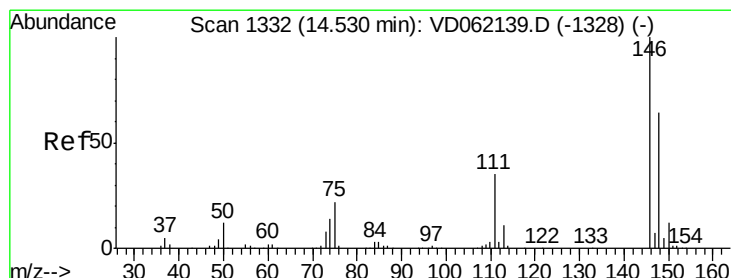
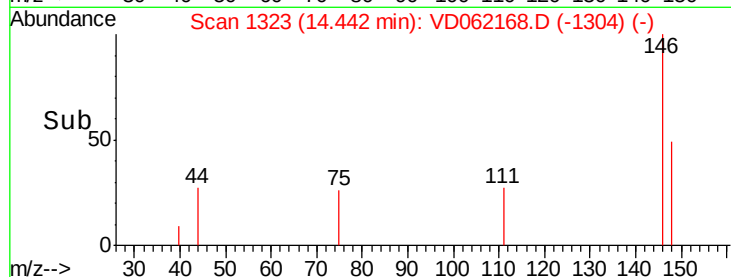
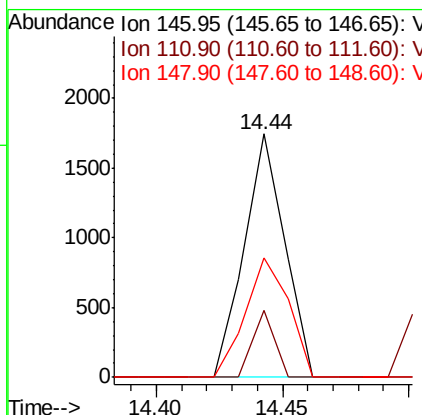
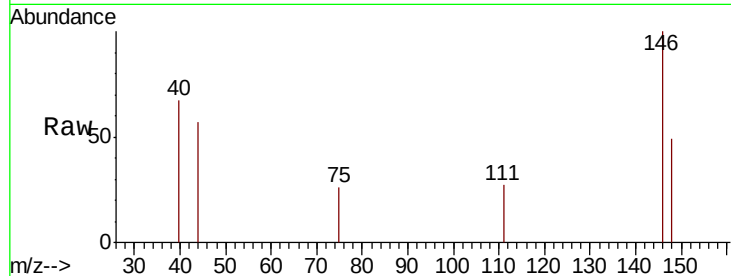




#87
 1,3-Dichlorobenzene
 Concen: 1.873 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

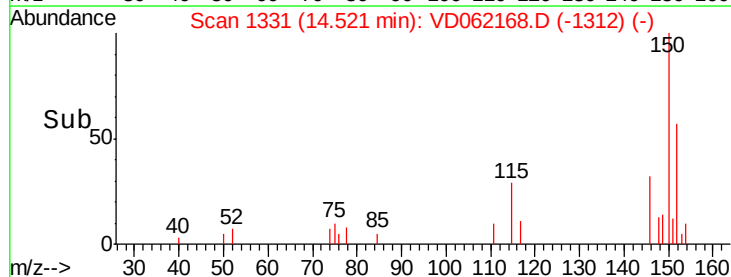
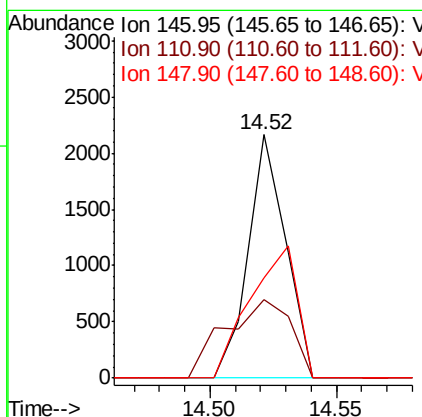
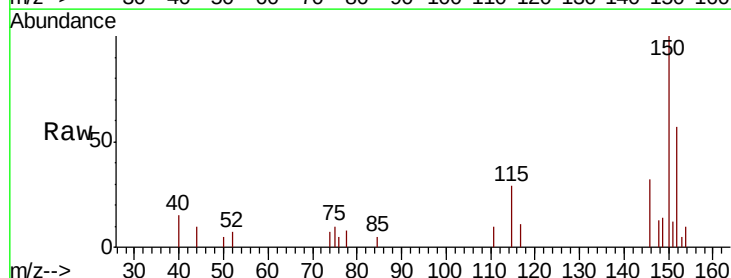
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-07-1.5-2.0

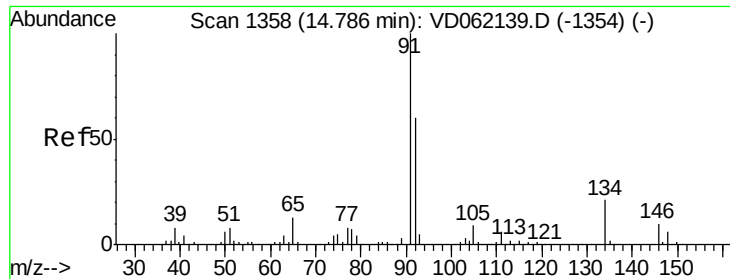
Tot Ion:146 Resp: 1949
 Ion Ratio Lower Upper
 146 100
 111 27.3 20.0 60.0
 148 49.1 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 2.187 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Tgt Ion:146 Resp: 2236
 Ion Ratio Lower Upper
 146 100
 111 32.1 20.2 60.5
 148 41.3 32.0 96.2

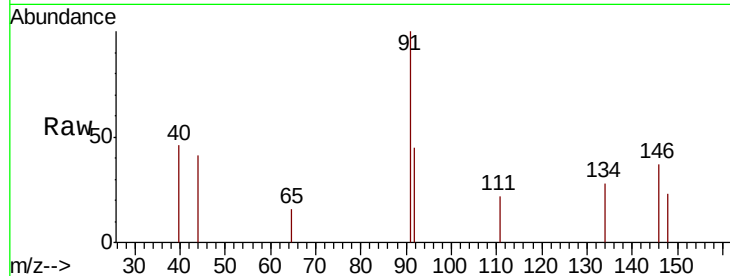




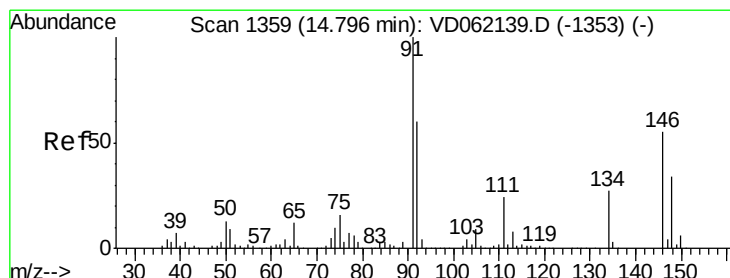
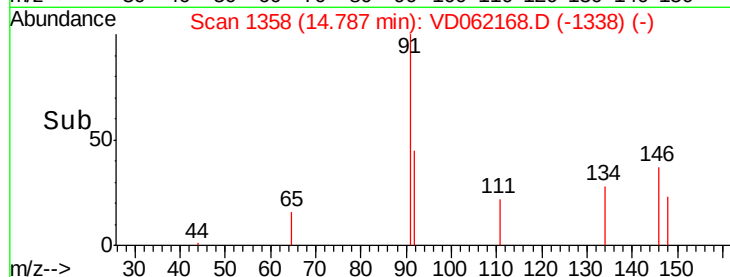
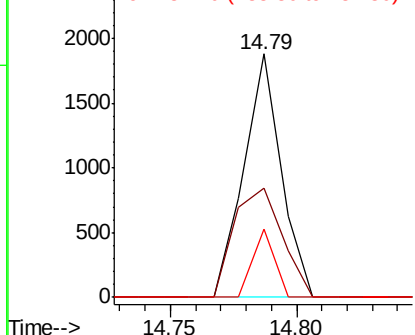
#89
n-Butylbenzene
Concen: 1.141 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Instrument :
MSVOA_D
ClientSampleId :
SB-07-1.5-2.0

Tot Ion: 91 Resp: 1932
Ion Ratio Lower Upper
91 100
92 45.0 30.3 91.0
134 28.2 14.5 43.6

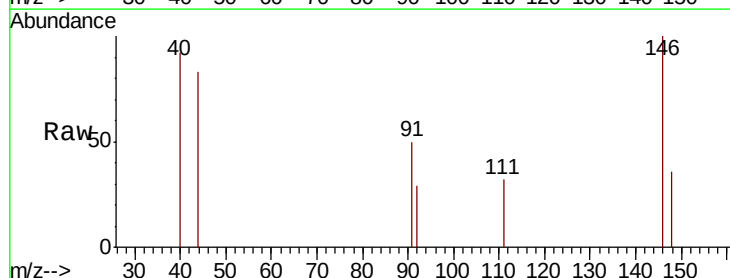


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V

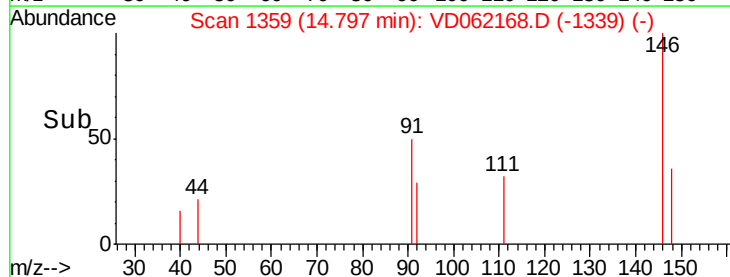
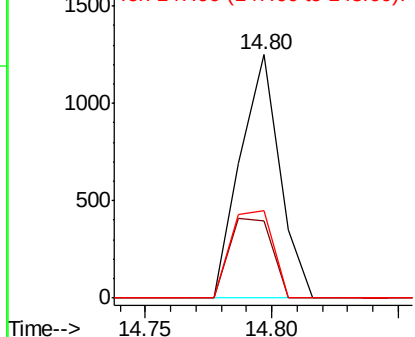


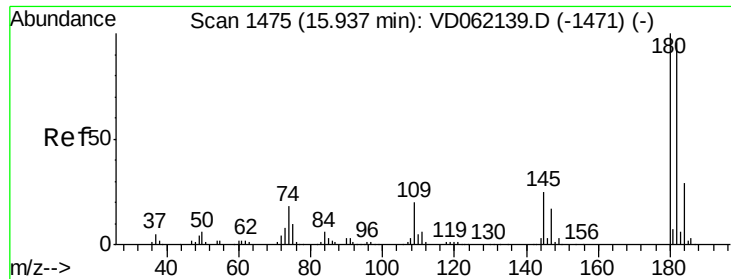
#91
1,2-Dichlorobenzene
Concen: 1.581 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.00 min
Lab File: VD062168.D
Acq: 8 May 2019 12:31

Tgt Ion: 146 Resp: 1355
Ion Ratio Lower Upper
146 100
111 31.7 20.0 59.9
148 35.7 32.3 96.8



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

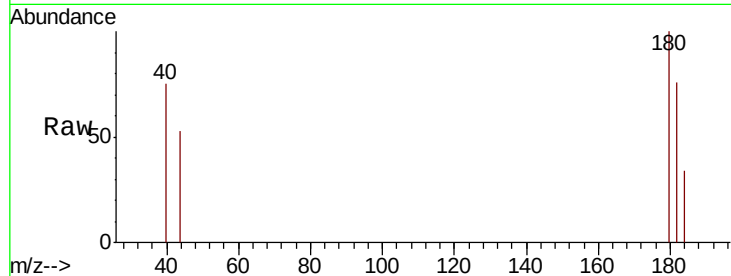




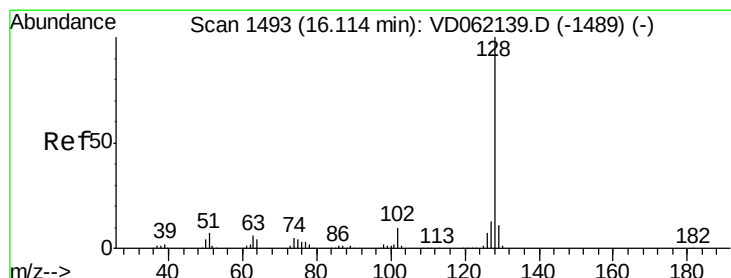
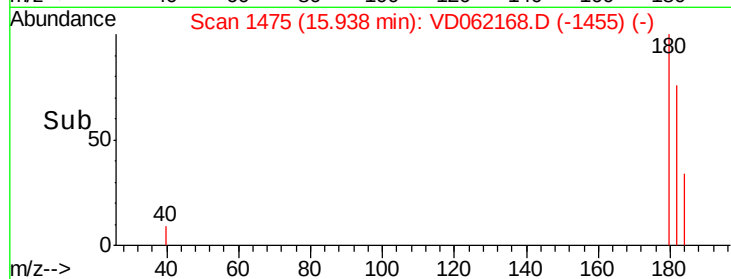
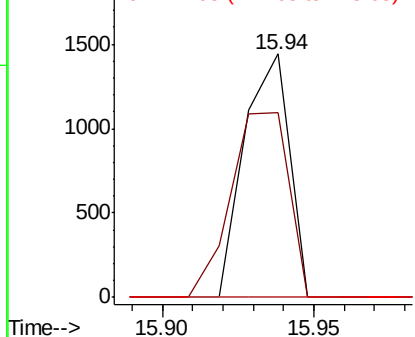
#93
 1,2,4-Trichlorobenzene
 Concen: 2.416 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-07-1.5-2.0

Tot Ion:180 Resp: 1507
 Ion Ratio Lower Upper
 180 100
 182 75.7 49.3 147.8
 145 0.0 16.2 48.6#

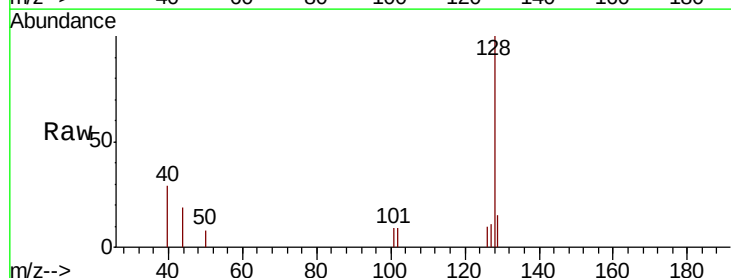


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

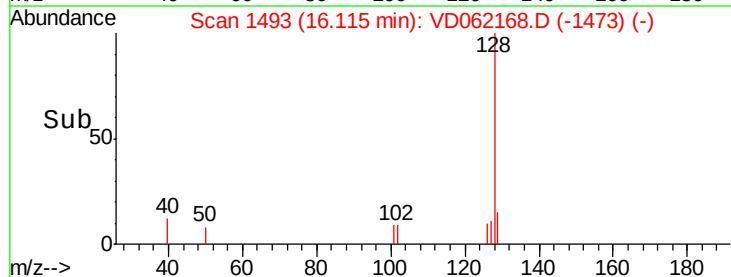
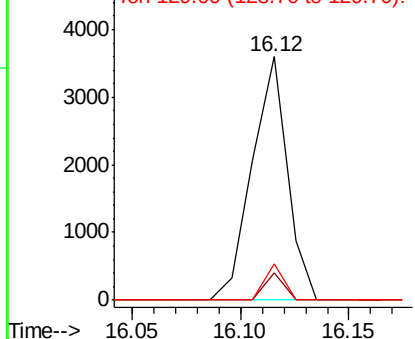


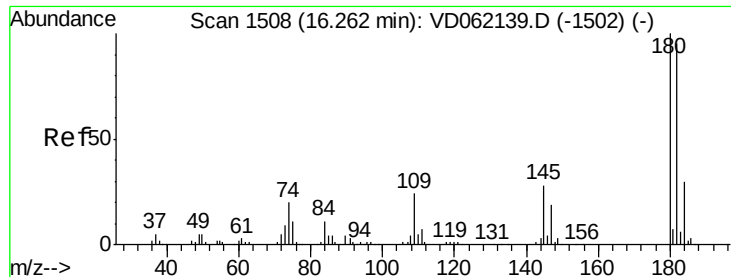
#95
 Naphthalene
 Concen: 4.656 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062168.D
 Acq: 8 May 2019 12:31

Tgt Ion:128 Resp: 4055
 Ion Ratio Lower Upper
 128 100
 127 11.3 9.8 14.8
 129 14.9 8.8 13.2#



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





#96

1,2,3-Trichlorobenzene

Concen: 3.631 ug/l

RT: 16.26 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VD062168.D

Acq: 8 May 2019 12:31

Instrument :

MSVOA_D

ClientSampleId :

SB-07-1.5-2.0

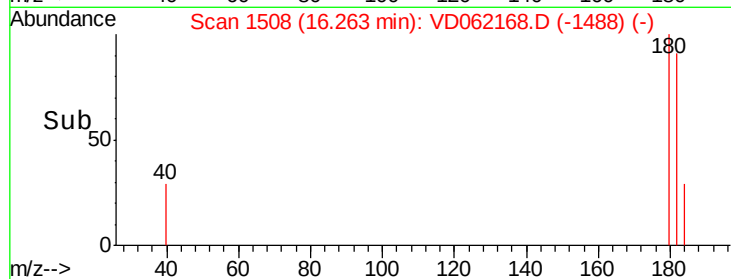
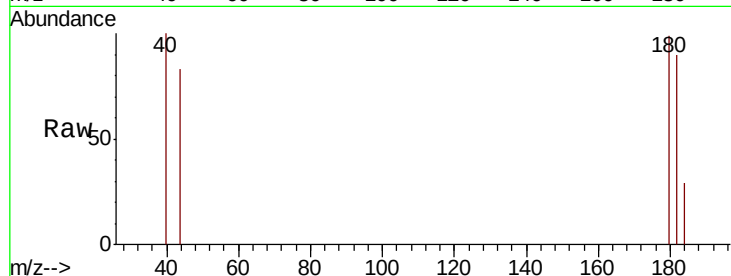
Tot Ion:180 Resp: 1424

Ion Ratio Lower Upper

180 100

182 91.5 47.0 141.0

145 0.0 17.0 51.0#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

