

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063248.D
 Acq On : 30 Jul 2019 18:11
 Operator : VA/AP
 Sample : K4043-15
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

Quant Time: Jul 31 04:57:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	15236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	24173	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	22626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	11602	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	11660	68.97	ug/l	0.00
Spiked Amount			Recovery	=	137.94%	
35) Dibromofluoromethane	6.93	113	9297	45.05	ug/l	0.02
Spiked Amount			Recovery	=	90.10%	
50) Toluene-d8	10.41	98	19465	42.14	ug/l	0.00
Spiked Amount			Recovery	=	84.28%	
62) 4-Bromofluorobenzene	13.55	95	9144	43.44	ug/l	0.00
Spiked Amount			Recovery	=	86.88%	

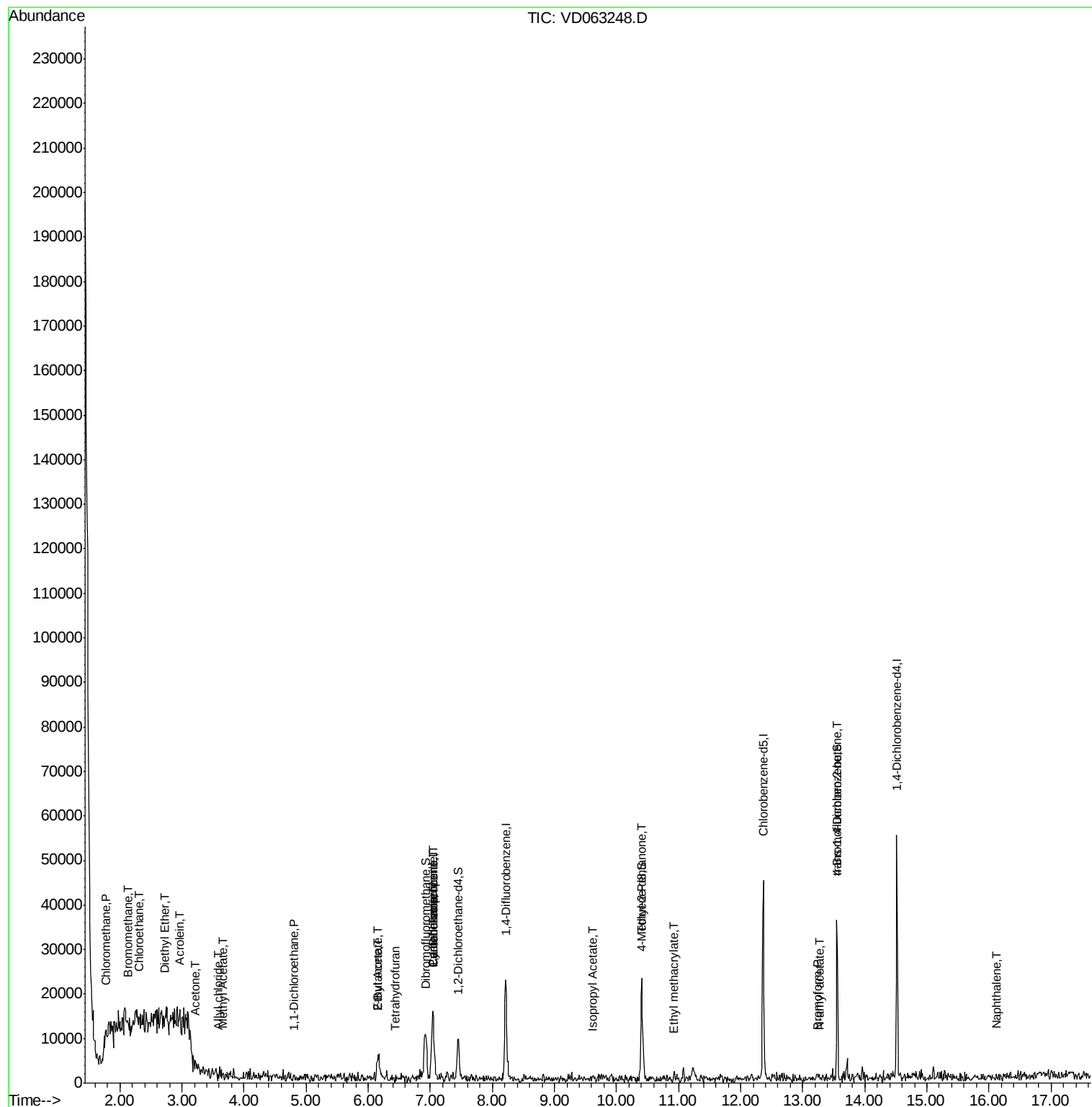
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	746	5.156	ug/l #	46
5) Bromomethane	2.14	94	1184	15.672	ug/l #	12
6) Chloroethane	2.30	64	182	2.632	ug/l #	47
8) Diethyl Ether	2.72	74	252	6.196	ug/l	65
13) Acrolein	2.97	56	191	26.750	ug/l #	15
14) Allyl chloride	3.59	41	198	1.052	ug/l #	11
16) Acetone	3.20	43	1583	48.058	ug/l #	62
18) Methyl Acetate	3.65	43	201	3.177	ug/l #	60
24) 1,1-Dichloroethane	4.81	63	299	1.245	ug/l #	86
25) 2-Butanone	6.16	43	204	6.171	ug/l #	56
29) Tetrahydrofuran	6.44	42	188	12.012	ug/l #	33
31) Cyclohexane	7.04	56	608	4.037	ug/l #	18
36) 1,1-Dichloropropene	7.05	75	751	3.404	ug/l #	44
37) Ethyl Acetate	6.16	43	204	2.058	ug/l #	70
38) Carbon Tetrachloride	7.05	117	1960	5.901	ug/l #	11
43) Isopropyl Acetate	9.61	43	179	1.414	ug/l #	49
51) 4-Methyl-2-Pentanone	10.39	43	440	5.110	ug/l #	42
56) Ethyl methacrylate	10.91	69	199	1.750	ug/l #	13
71) Bromoform	13.23	173	208	1.492	ug/l #	36
74) N-amyl acetate	13.25	43	251	1.304	ug/l #	53
81) trans-1,4-Dichloro-2-buten	13.55	75	4226	109.210	ug/l #	3
95) Naphthalene	16.12	128	759	2.115	ug/l #	70

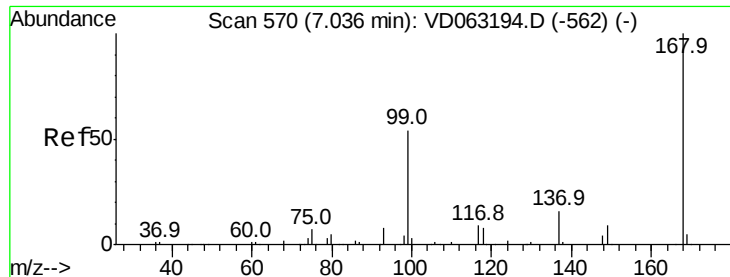
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

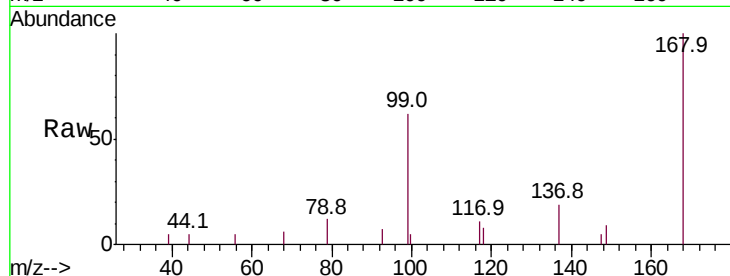
BP-VPB203-GW-418-420

Tot Ion:168 Resp: 15236

Ion Ratio Lower Upper

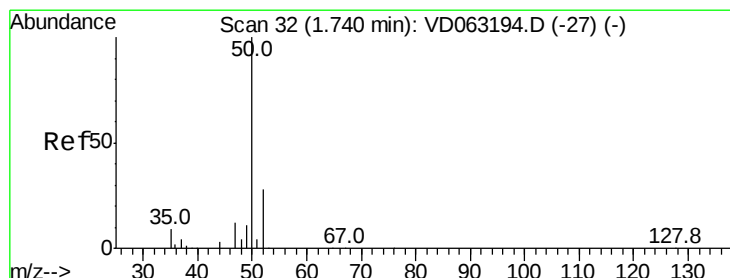
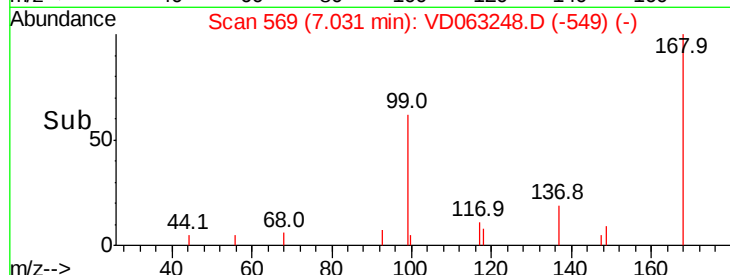
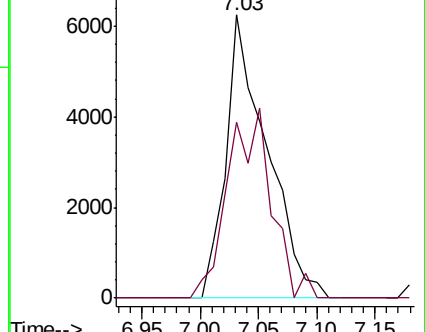
168 100

99 62.0 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 5.156 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD063248.D

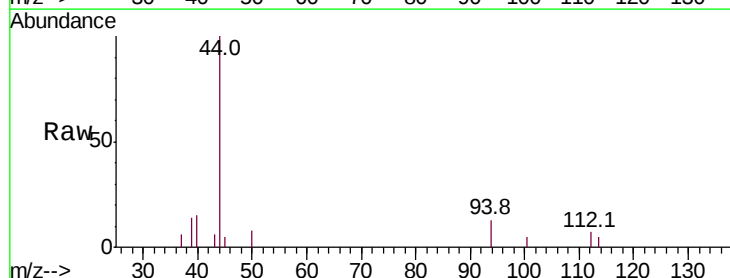
Acq: 30 Jul 2019 18:11

Tgt Ion: 50 Resp: 746

Ion Ratio Lower Upper

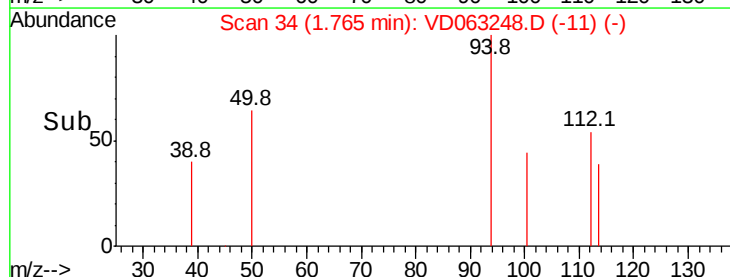
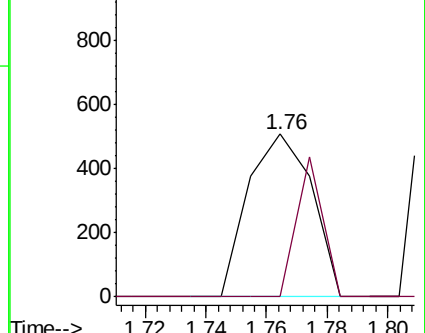
50 100

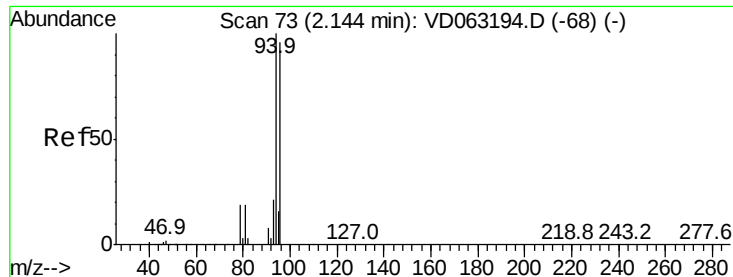
52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 15.672 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

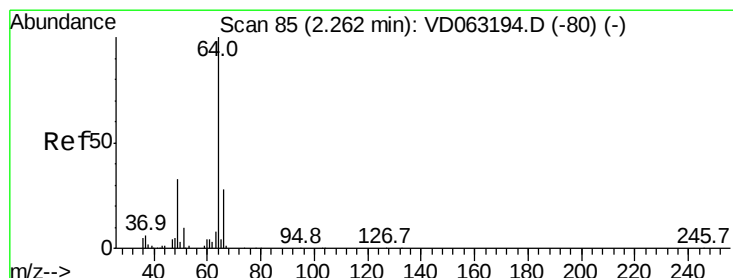
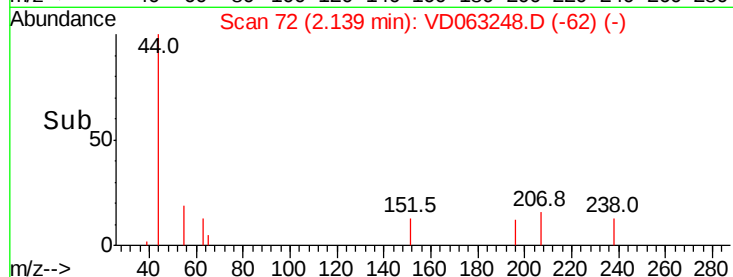
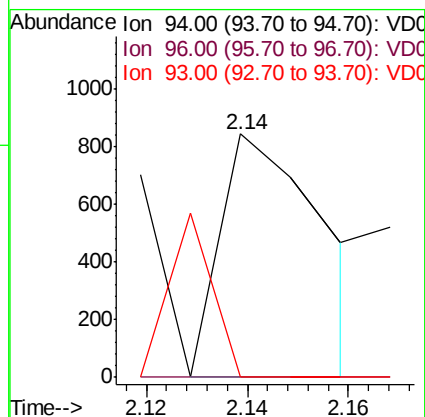
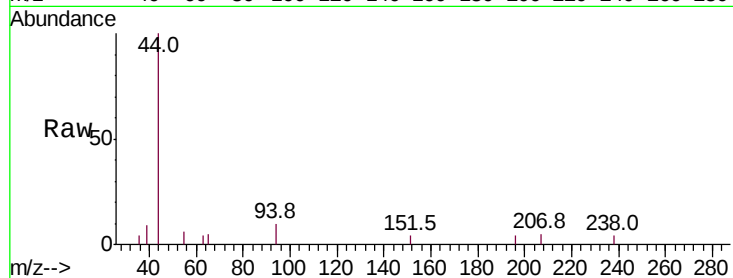
Tot Ion: 94 Resp: 1184

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



#6

Chloroethane

Concen: 2.632 ug/l

RT: 2.30 min Scan# 88

Delta R.T. 0.03 min

Lab File: VD063248.D

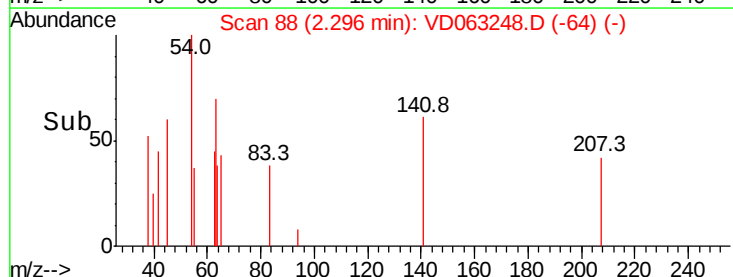
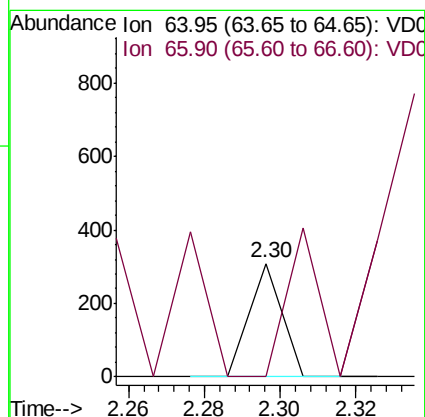
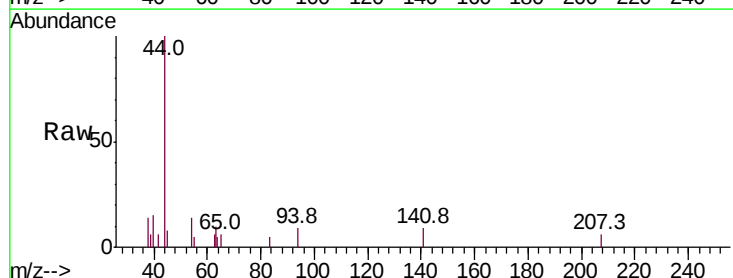
Acq: 30 Jul 2019 18:11

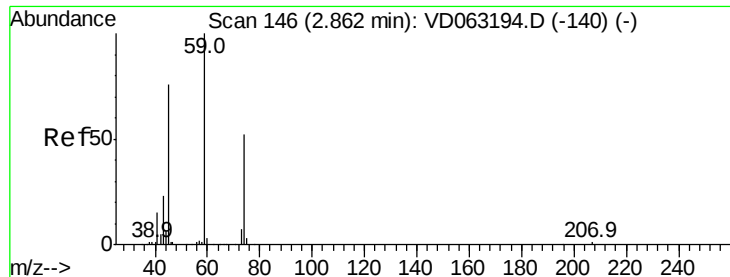
Tgt Ion: 64 Resp: 182

Ion Ratio Lower Upper

64 100

66 0.0 22.2 33.2#





#8

Diethyl Ether

Concen: 6.196 ug/l

RT: 2.72 min Scan# 131

Delta R.T. -0.14 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

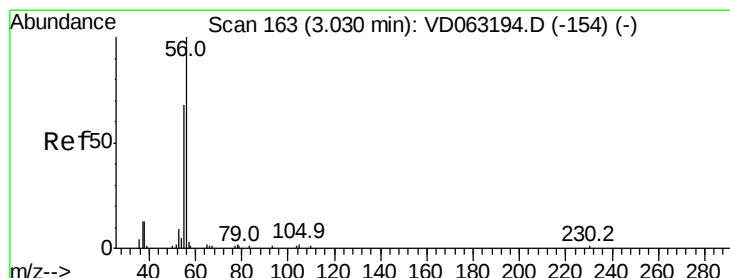
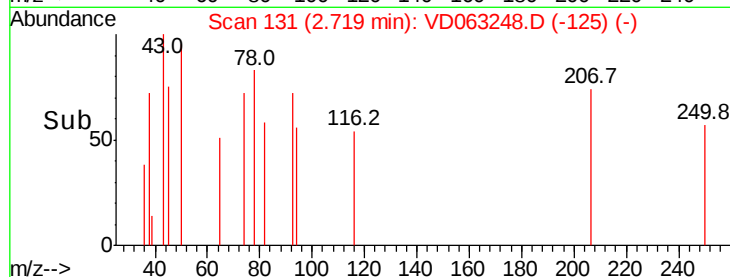
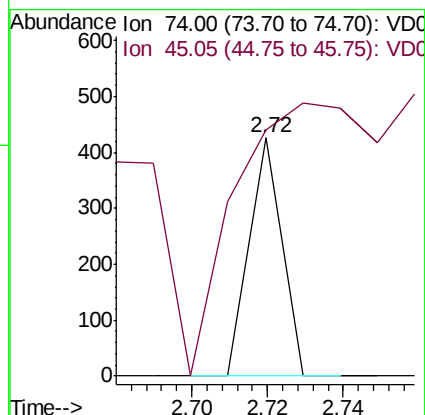
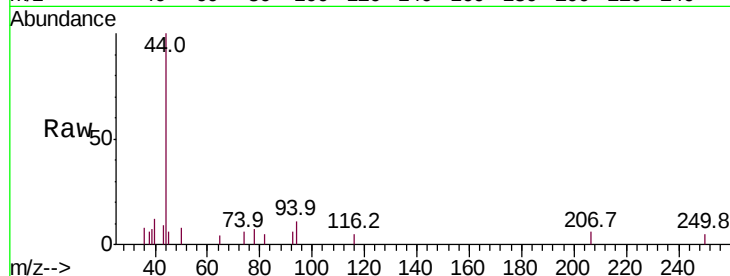
BP-VPB203-GW-418-420

Tot Ion: 74 Resp: 252

Ion Ratio Lower Upper

74 100

45 103.1 73.6 220.8



#13

Acrolein

Concen: 26.750 ug/l

RT: 2.97 min Scan# 156

Delta R.T. -0.06 min

Lab File: VD063248.D

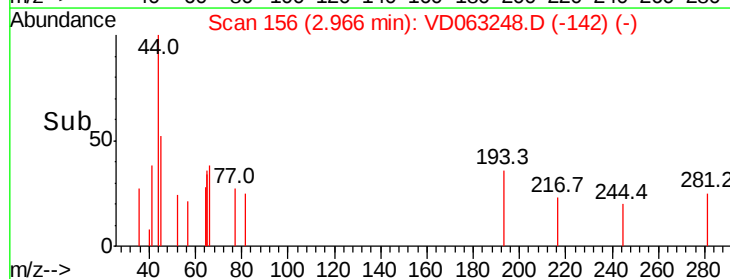
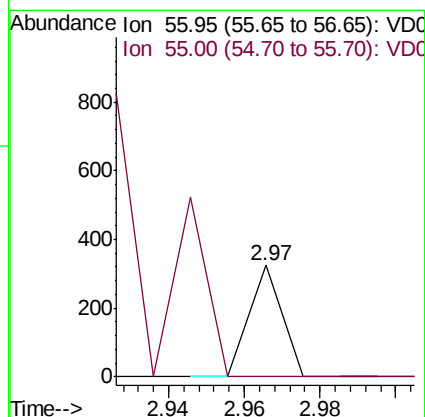
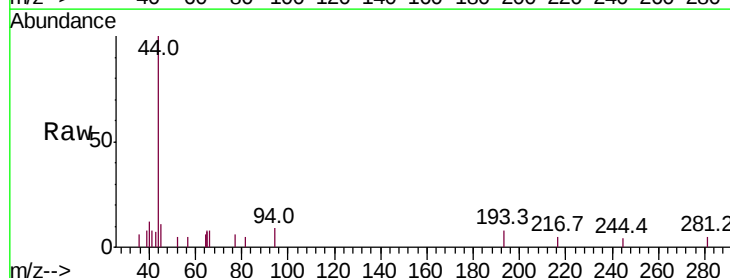
Acq: 30 Jul 2019 18:11

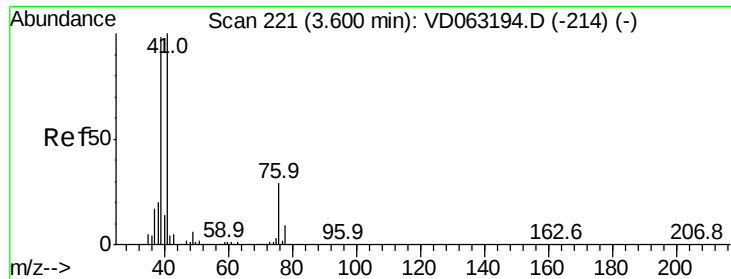
Tgt Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 0.0 55.3 82.9#

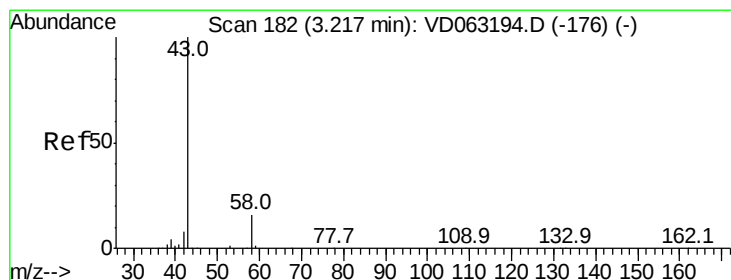
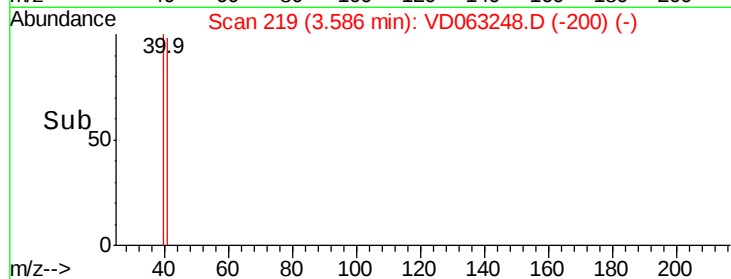
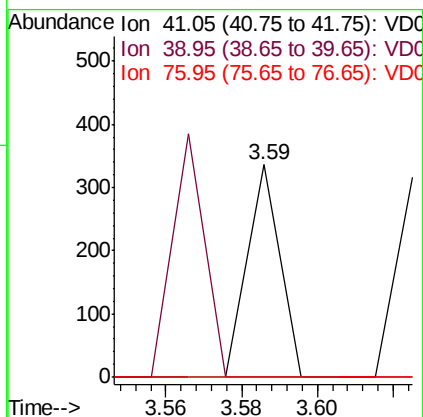
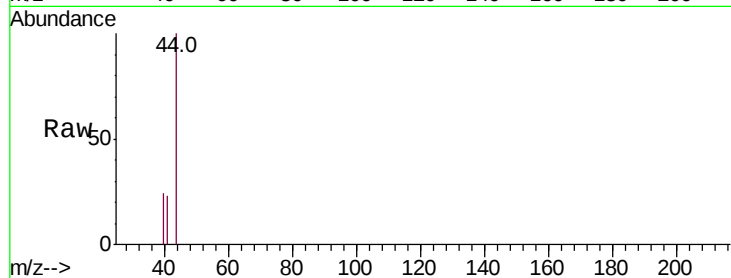




#14
Allvl chloride
Concen: 1.052 ug/l
RT: 3.59 min Scan# 219
Delta R.T. -0.01 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

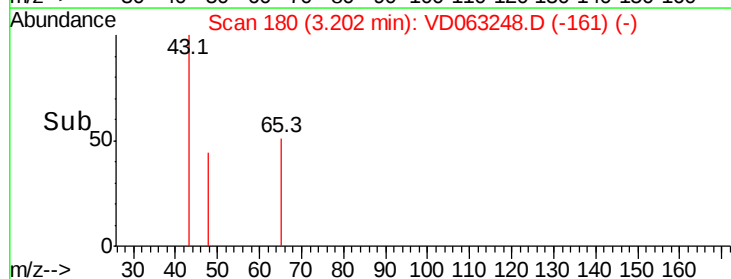
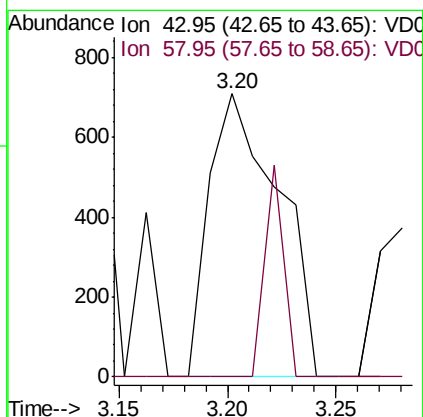
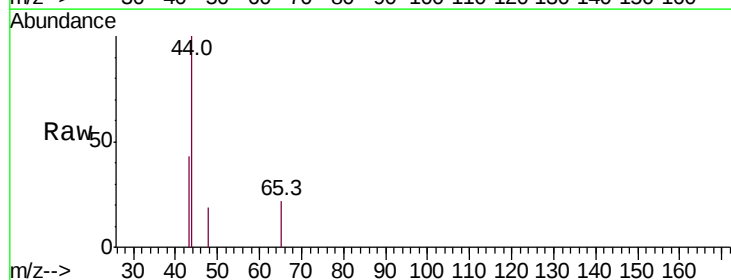
Instrument :
MSVOA_D
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BP-VPB203-GW-418-420

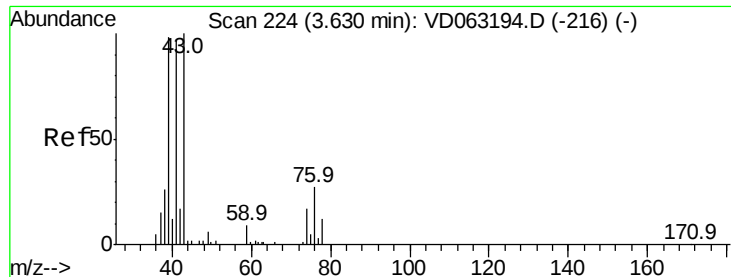
Tot Ion: 41 Resp: 198
Ion Ratio Lower Upper
41 100
39 0.0 78.6 117.8#
76 0.0 24.5 36.7#



#16
Acetone
Concen: 48.058 ug/l
RT: 3.20 min Scan# 180
Delta R.T. -0.01 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Tgt Ion: 43 Resp: 1583
Ion Ratio Lower Upper
43 100
58 0.0 13.0 19.4#

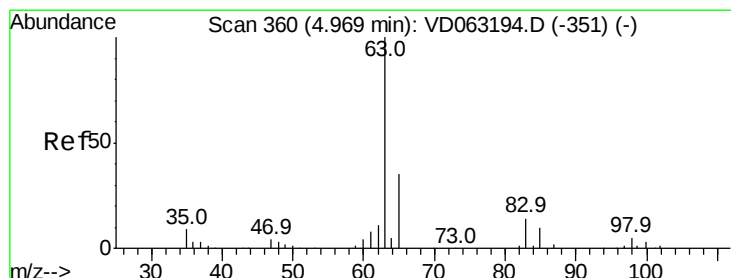
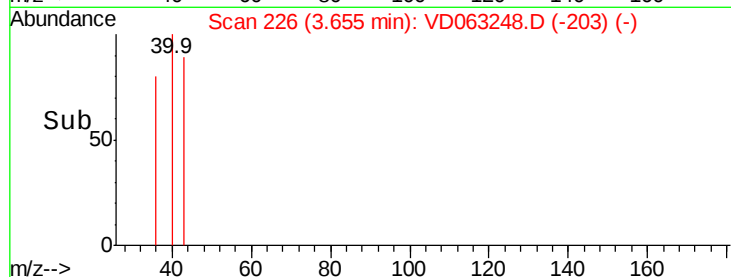
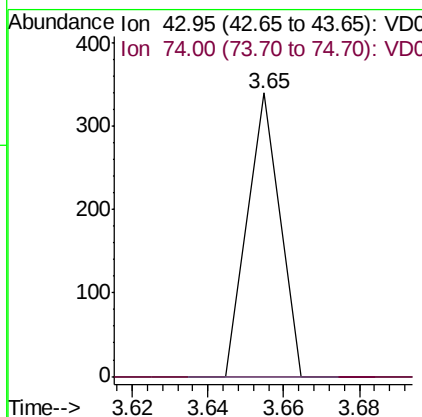
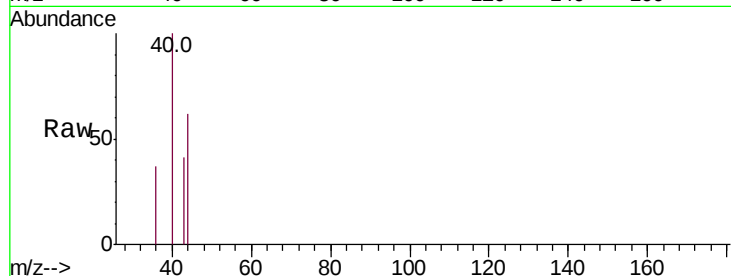




#18
Methyl Acetate
Concen: 3.177 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.02 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

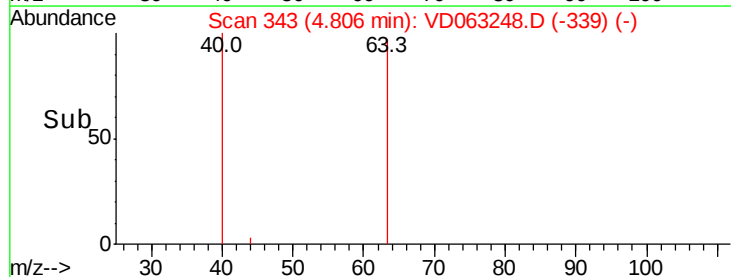
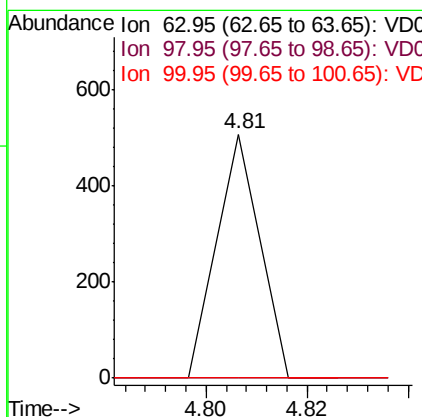
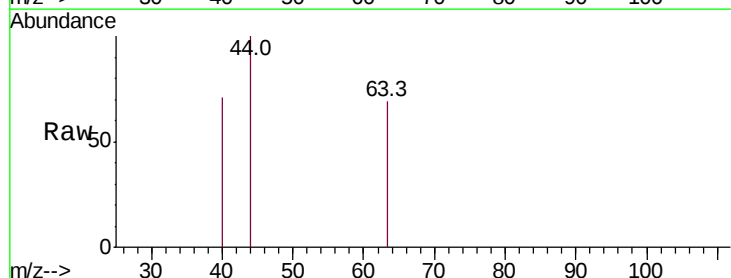
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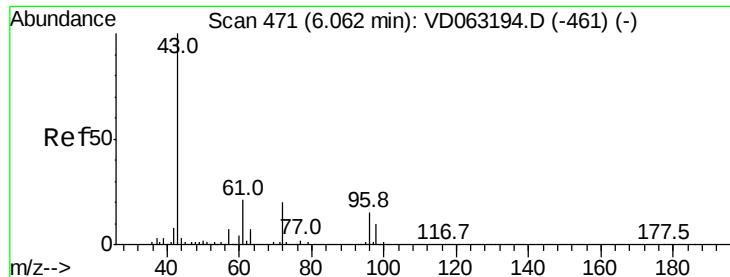
Tot Ion: 43 Resp: 201
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#24
1,1-Dichloroethane
Concen: 1.245 ug/l
RT: 4.81 min Scan# 343
Delta R.T. -0.16 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Tgt Ion: 63 Resp: 299
Ion Ratio Lower Upper
63 100
98 0.0 2.8 8.4#
100 0.0 1.3 3.9#





#25

2-Butanone

Concen: 6.171 ug/l

RT: 6.16 min Scan# 480

Delta R.T. 0.09 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

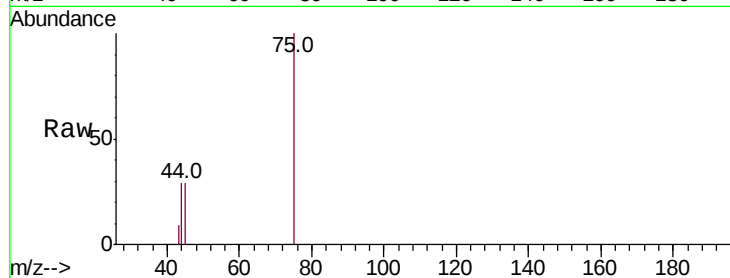
BP-VPB203-GW-418-420

Tot Ion: 43 Resp: 204

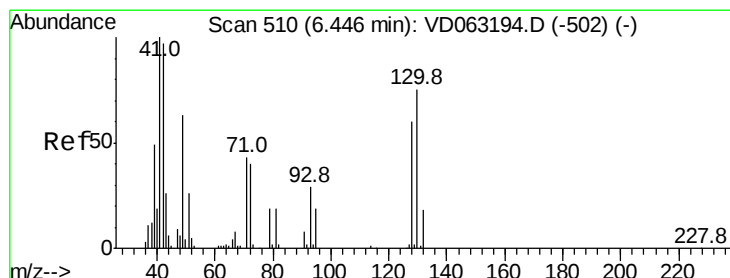
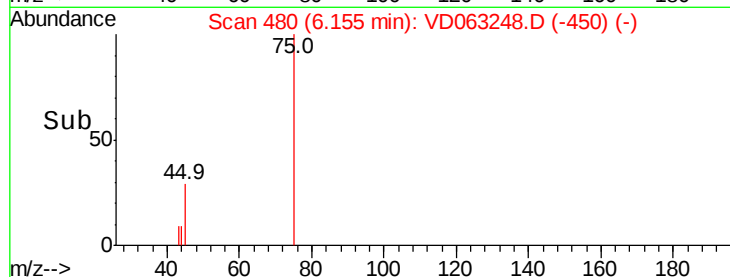
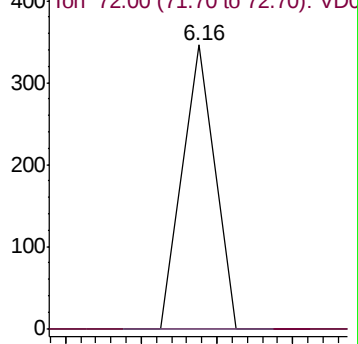
Ion Ratio Lower Upper

43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 12.012 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.00 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

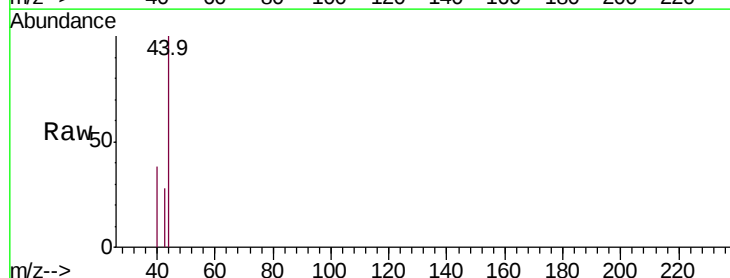
Tgt Ion: 42 Resp: 188

Ion Ratio Lower Upper

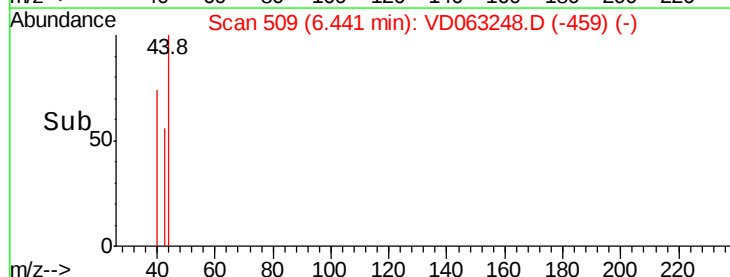
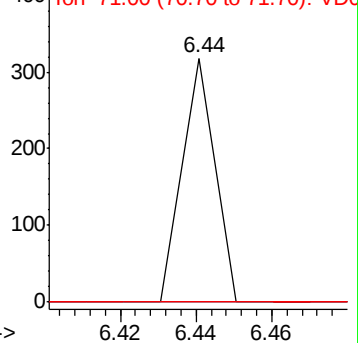
42 100

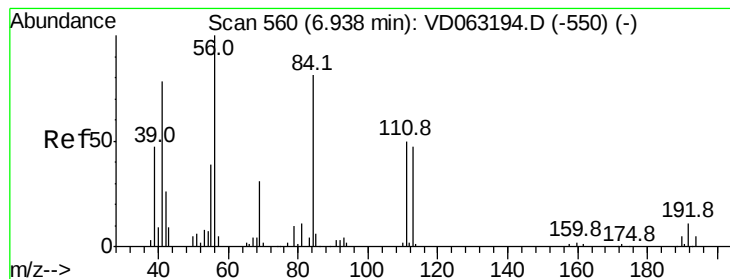
72 0.0 33.4 50.2#

71 0.0 35.7 53.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC





#31

Cyclohexane

Concen: 4.037 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

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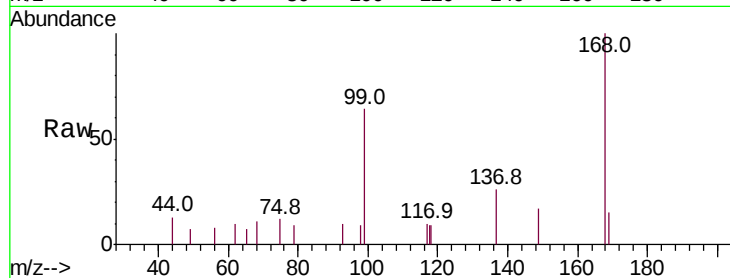
Tot Ion: 56 Resp: 608

Ion Ratio Lower Upper

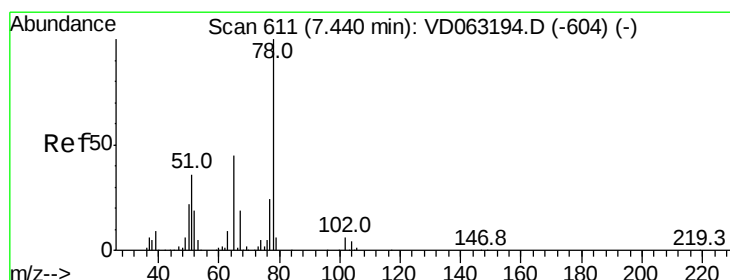
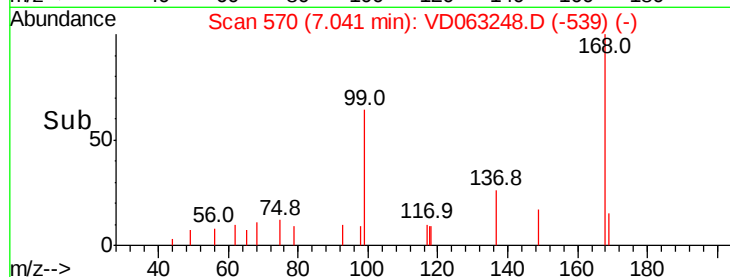
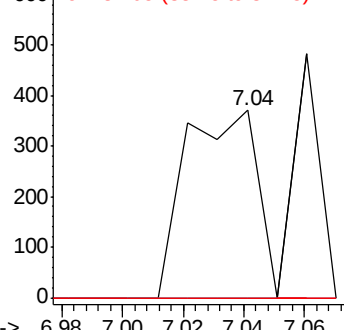
56 100

69 0.0 24.5 36.7#

84 0.0 64.9 97.3#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 68.970 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063248.D

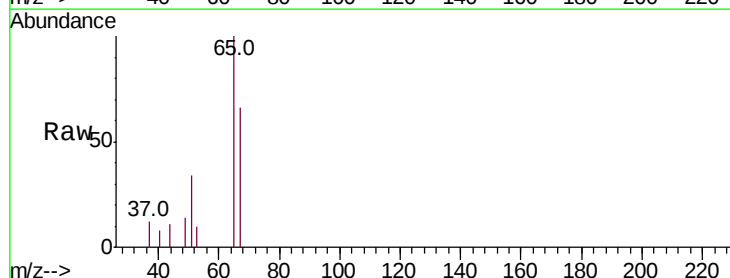
Acq: 30 Jul 2019 18:11

Tgt Ion: 65 Resp: 11660

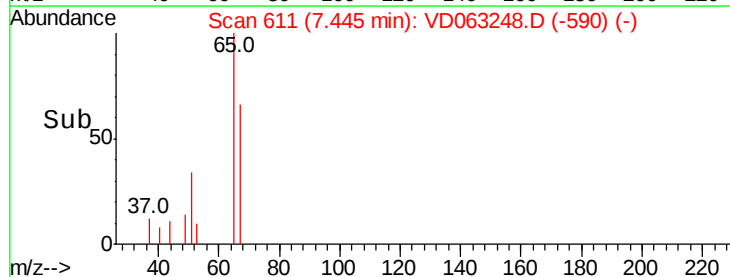
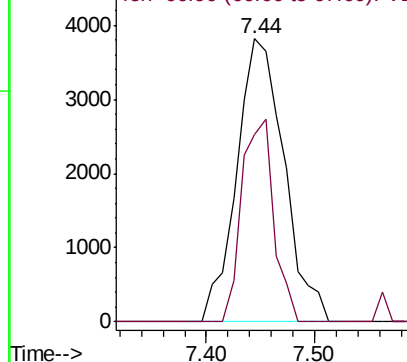
Ion Ratio Lower Upper

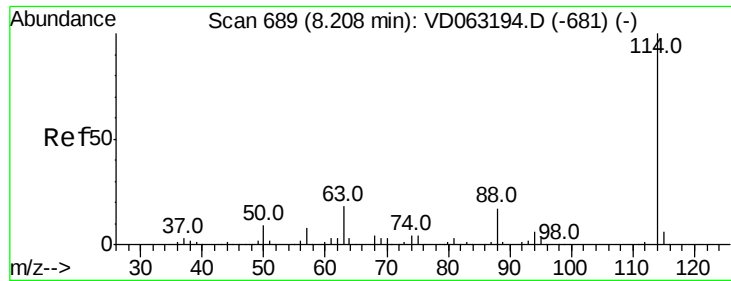
65 100

67 66.2 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

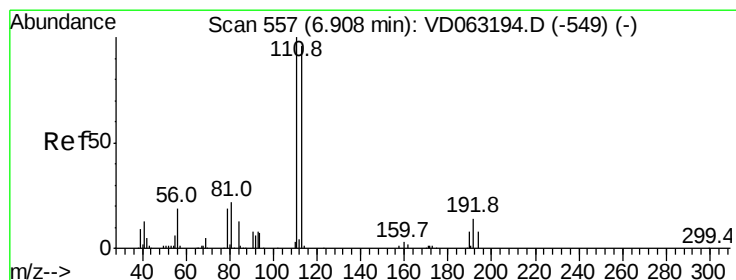
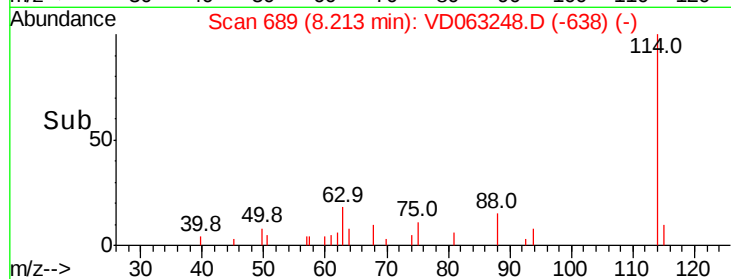
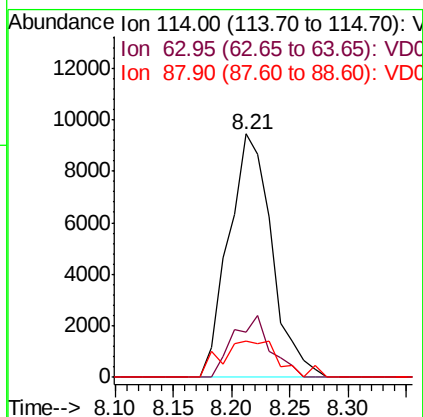
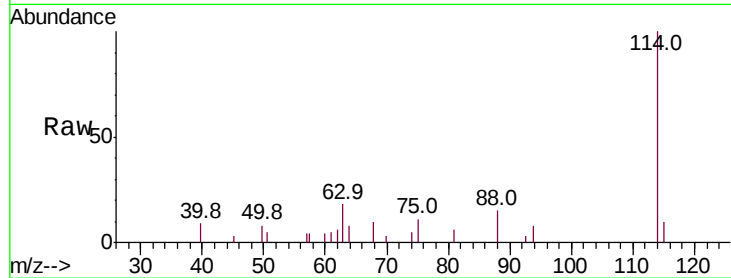




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063248.D
 Acq: 30 Jul 2019 18:11

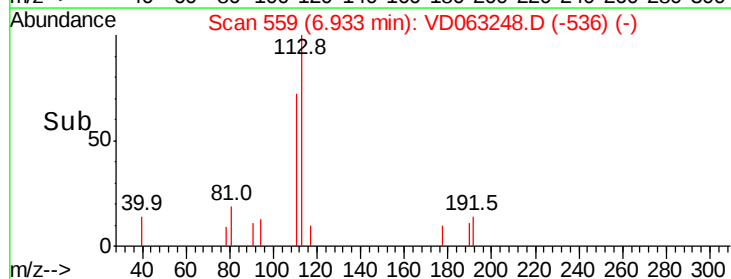
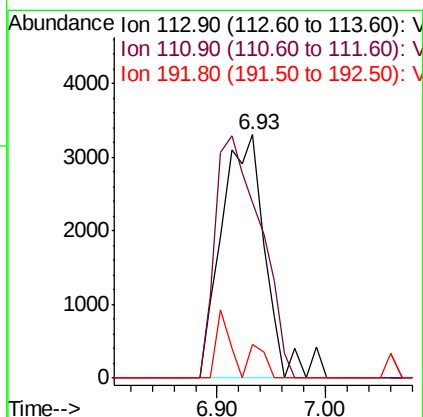
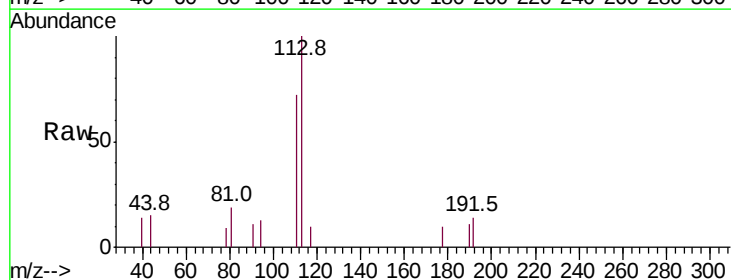
Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

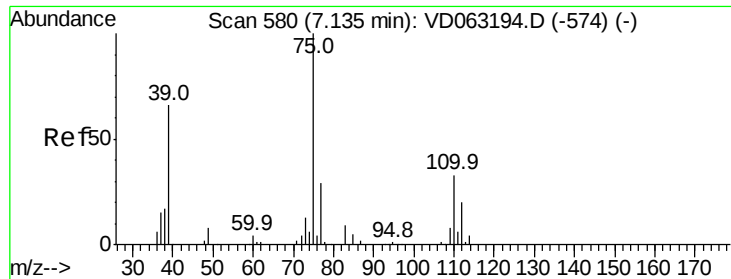
Tot Ion:114 Resp: 24173
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.2
 88 14.8 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 45.047 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063248.D
 Acq: 30 Jul 2019 18:11

Tgt Ion:113 Resp: 9297
 Ion Ratio Lower Upper
 113 100
 111 72.3 83.2 124.8#
 192 13.9 11.8 17.8

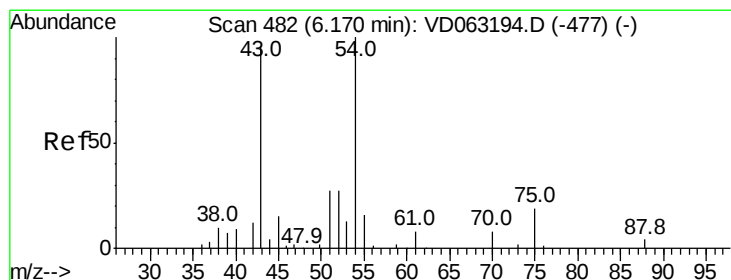
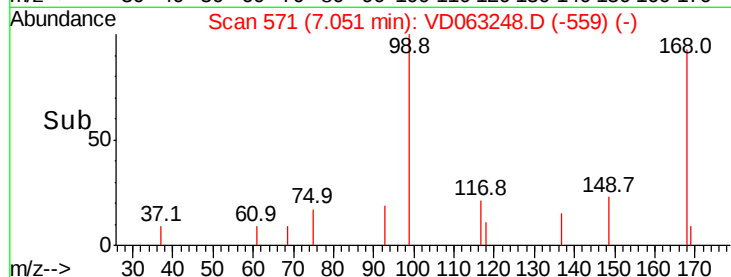
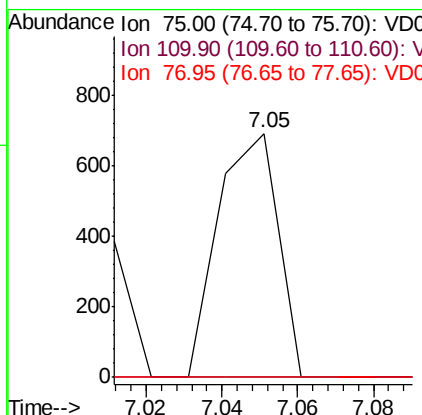
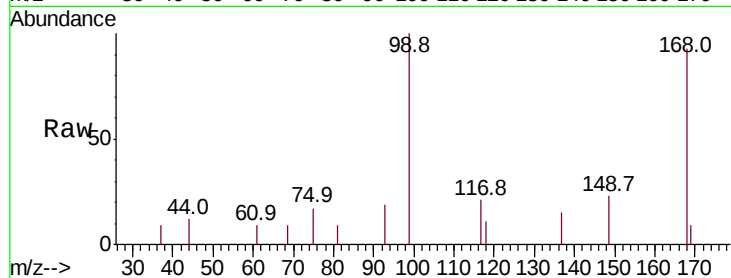




#36
 1,1-Dichloropropene
 Concen: 3.404 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD063248.D
 Acq: 30 Jul 2019 18:11

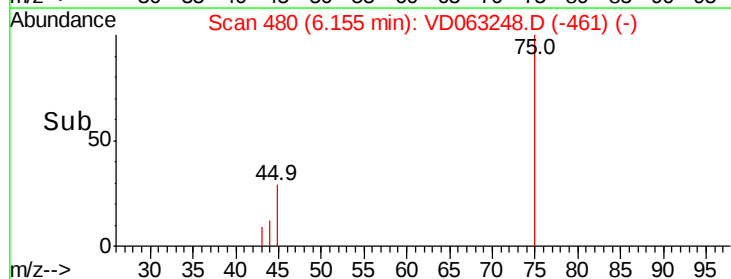
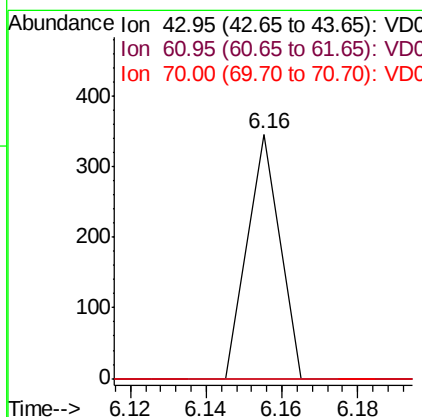
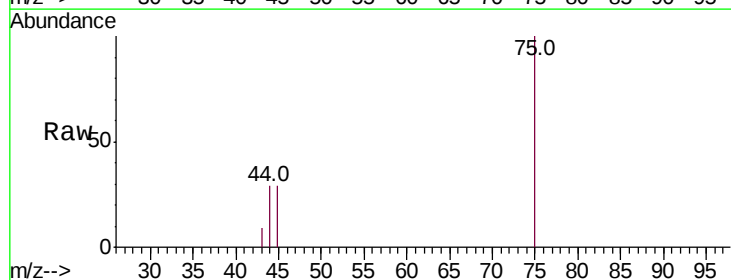
Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

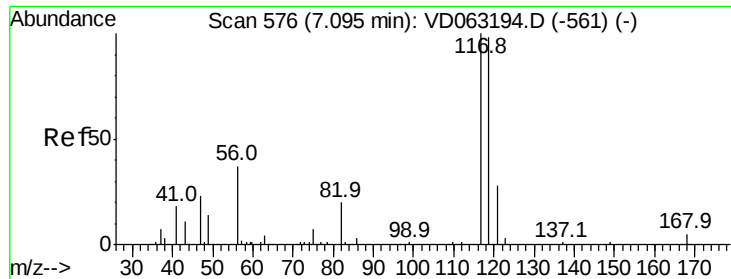
Tot Ion: 75 Resp: 751
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.1 48.2#
 77 0.0 22.7 34.1#



#37
 Ethyl Acetate
 Concen: 2.058 ug/l
 RT: 6.16 min Scan# 480
 Delta R.T. -0.01 min
 Lab File: VD063248.D
 Acq: 30 Jul 2019 18:11

Tgt Ion: 43 Resp: 204
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.3 16.9#
 70 0.0 5.1 7.7#





#38

Carbon Tetrachloride

Concen: 5.901 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

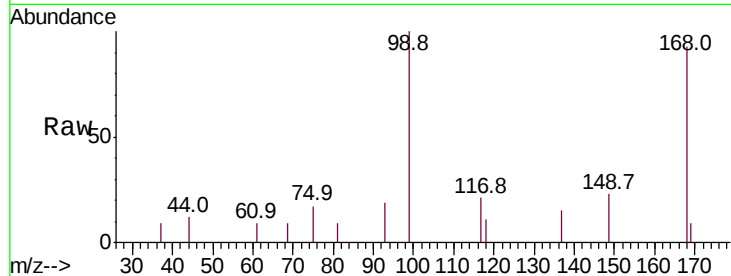
Tot Ion:117 Resp: 1960

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

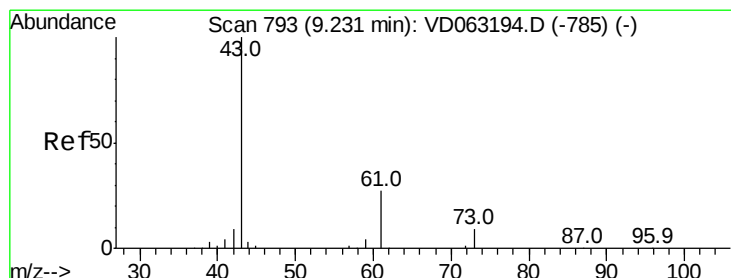
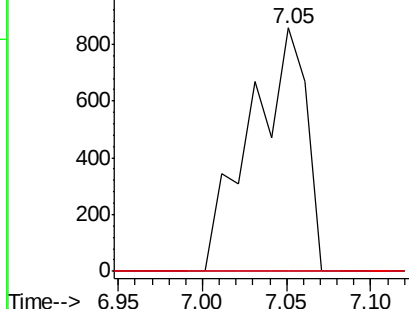
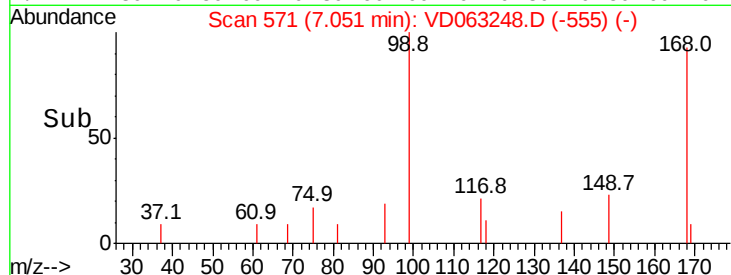
121 0.0 22.1 33.1#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 1.414 ug/l

RT: 9.61 min Scan# 831

Delta R.T. 0.38 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

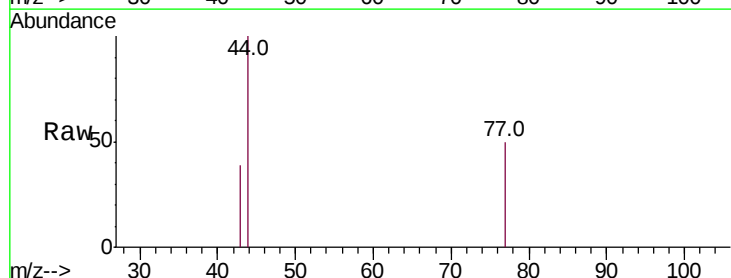
Tgt Ion: 43 Resp: 179

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

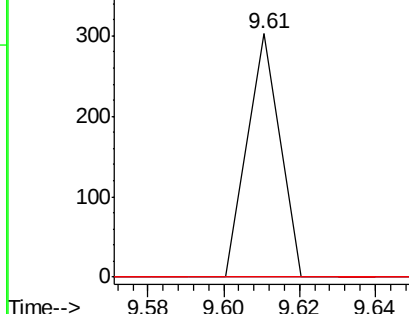
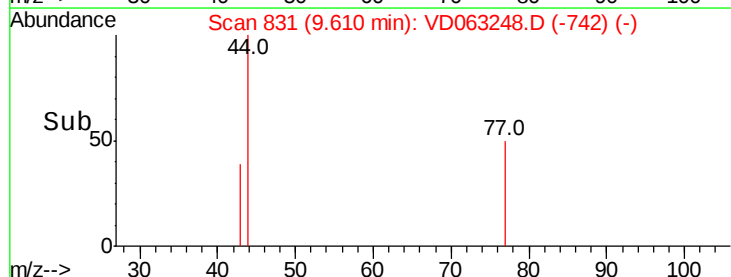
87 0.0 0.2 0.4#

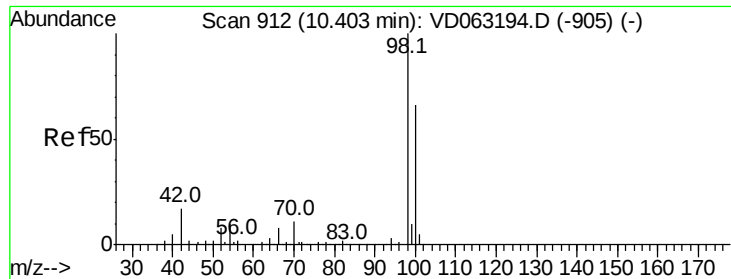


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

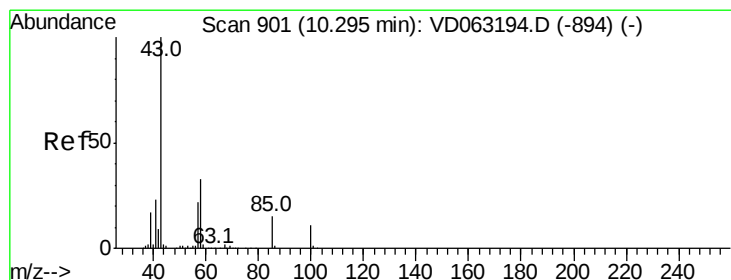
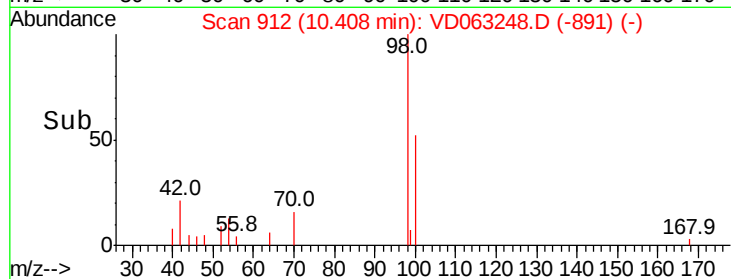
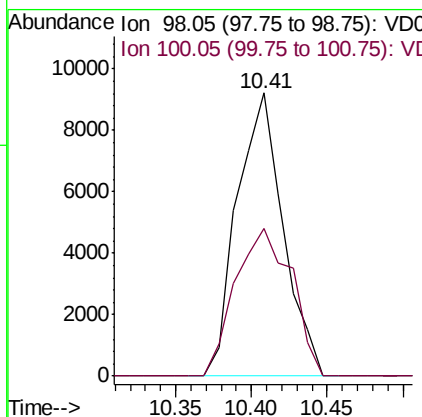
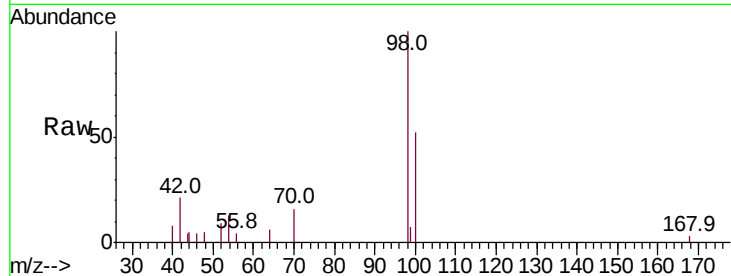




#50
Toluene-d8
Concen: 42.142 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

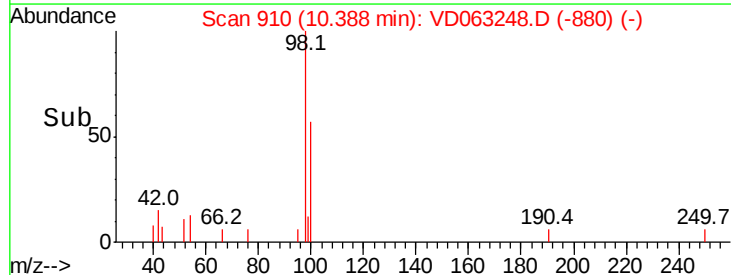
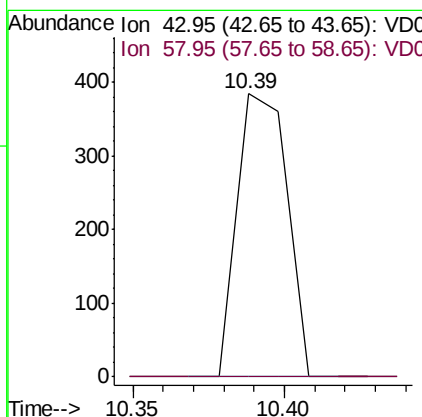
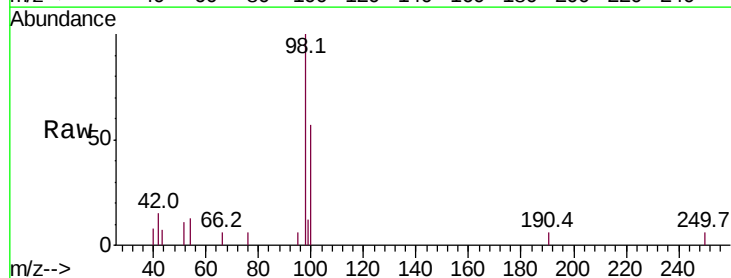
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

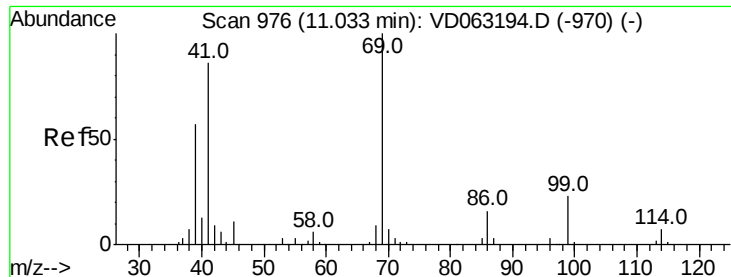
Tot Ion: 98 Resp: 19465
Ion Ratio Lower Upper
98 100
100 52.2 53.2 79.8#



#51
4-Methyl-2-Pentanone
Concen: 5.110 ug/l
RT: 10.39 min Scan# 910
Delta R.T. 0.09 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Tgt Ion: 43 Resp: 440
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#





#56

Ethyl methacrylate

Concen: 1.750 ug/l

RT: 10.91 min Scan# 963

Delta R.T. -0.12 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

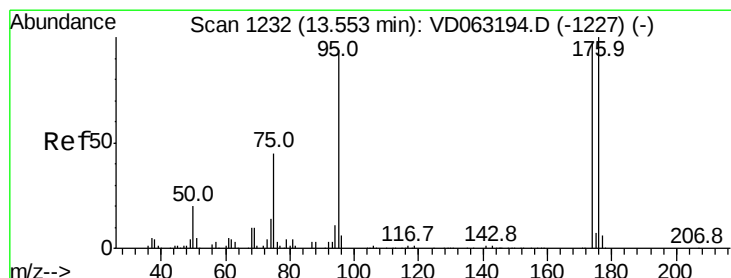
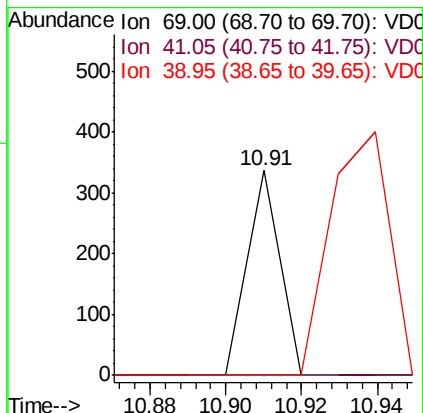
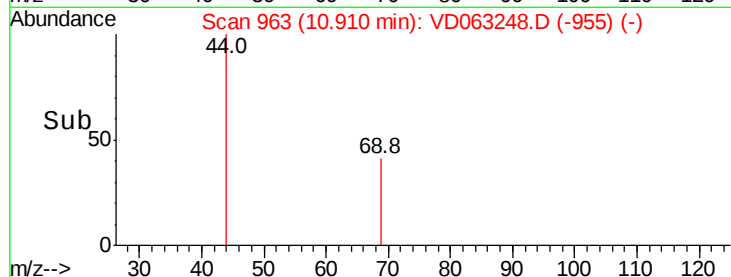
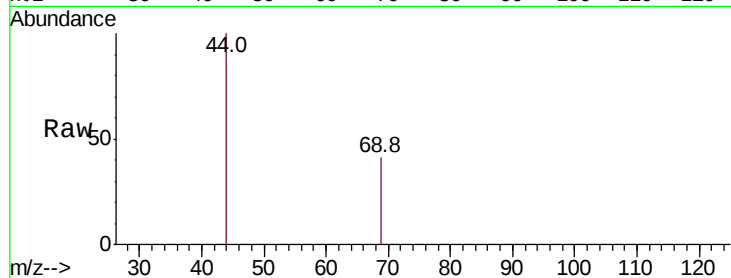
Tot Ion: 69 Resp: 199

Ion Ratio Lower Upper

69 100

41 0.0 68.8 103.2#

39 0.0 45.8 68.8#



#62

4-Bromofluorobenzene

Concen: 43.443 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

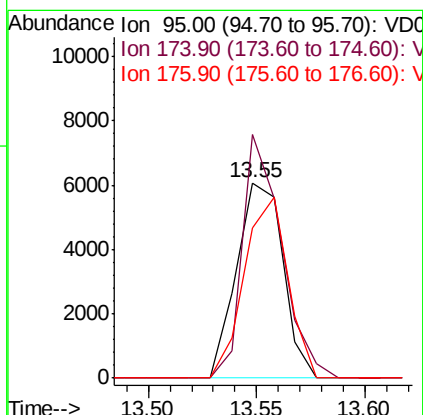
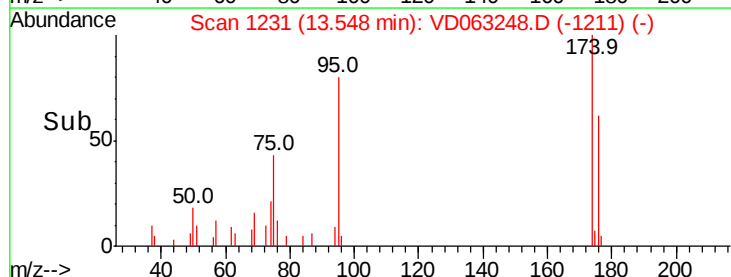
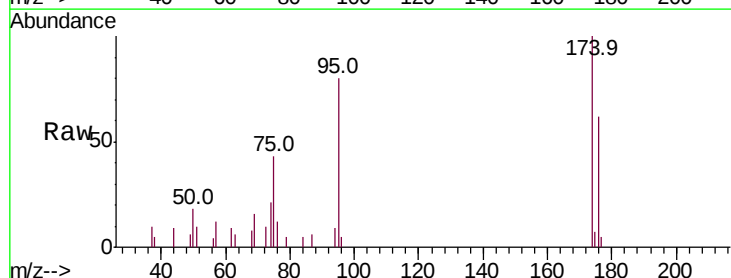
Tgt Ion: 95 Resp: 9144

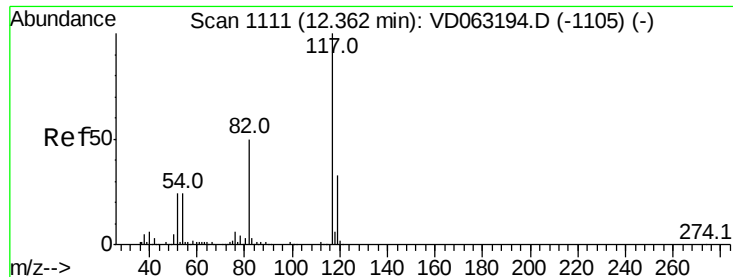
Ion Ratio Lower Upper

95 100

174 124.9 0.0 205.4

176 77.1 0.0 211.8

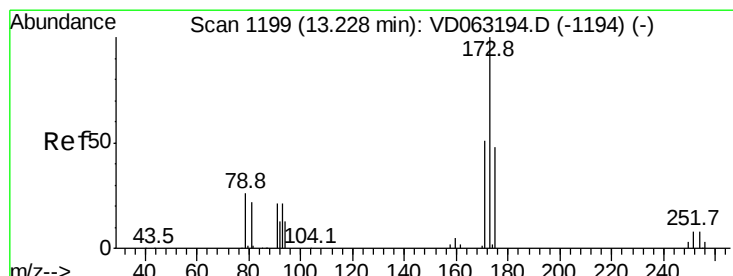
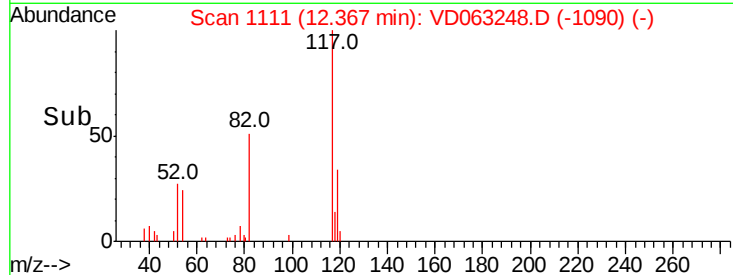
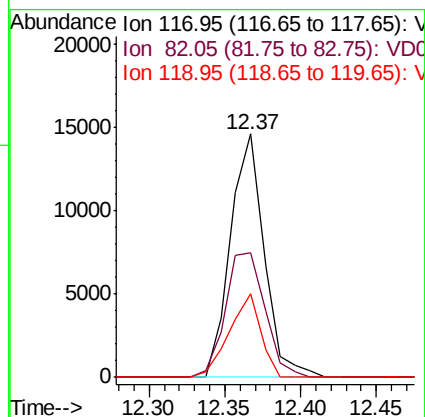
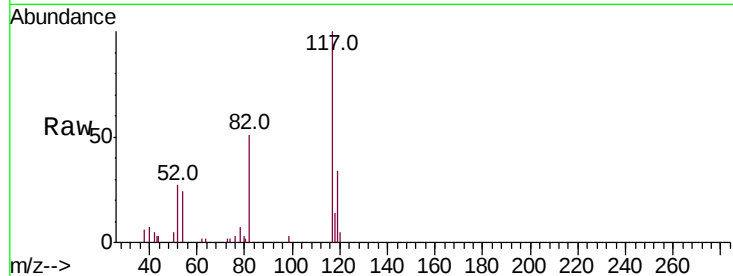




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

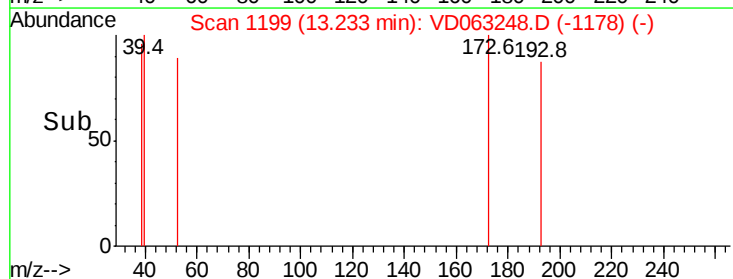
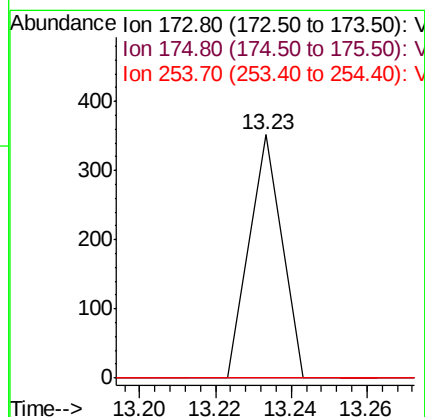
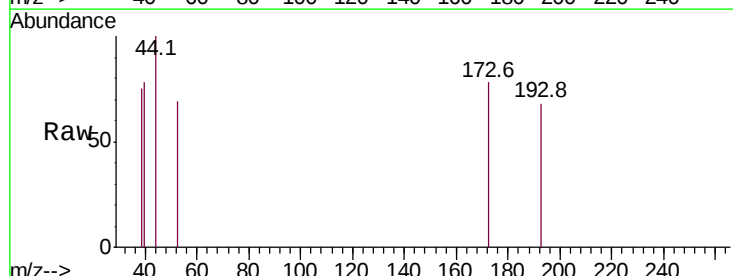
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

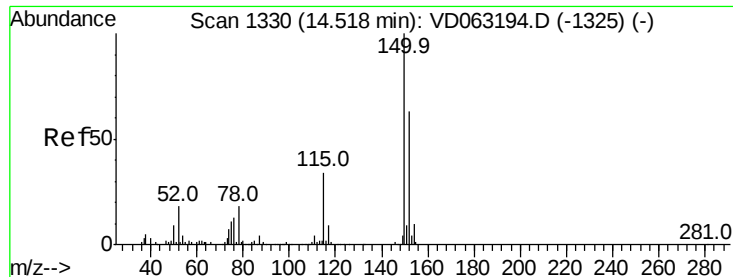
Tot Ion:117 Resp: 22626
Ion Ratio Lower Upper
117 100
82 51.3 40.1 60.1
119 34.3 26.5 39.7



#71
Bromoform
Concen: 1.492 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. 0.00 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Tgt Ion:173 Resp: 208
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.5#
254 0.0 6.6 10.0#



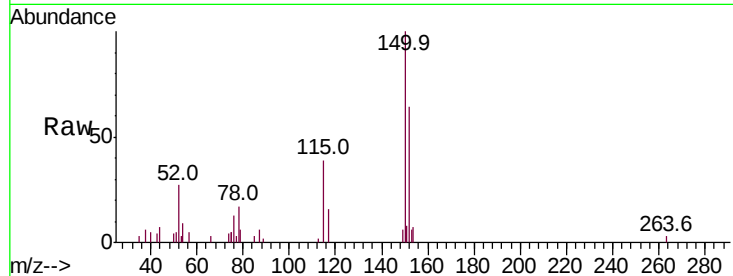


#72

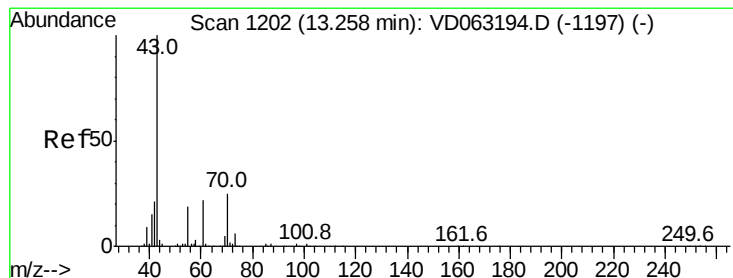
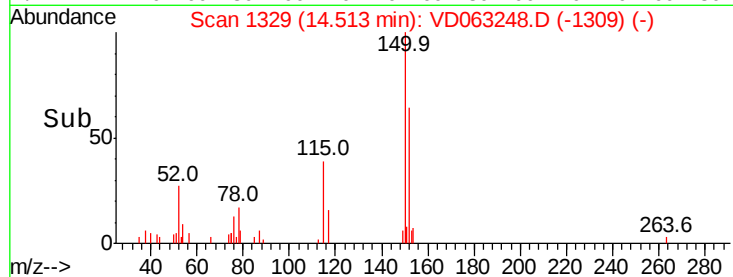
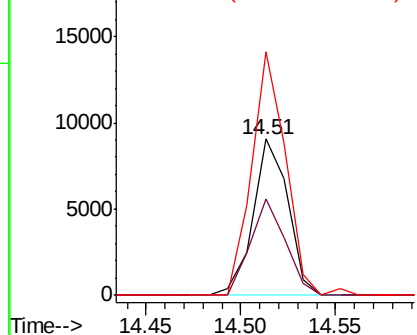
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

Tot Ion:152 Resp: 11602
Ion Ratio Lower Upper
152 100
115 61.4 27.5 82.4
150 155.8 0.0 320.6



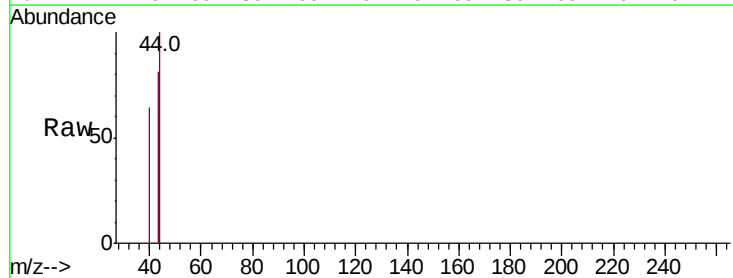
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



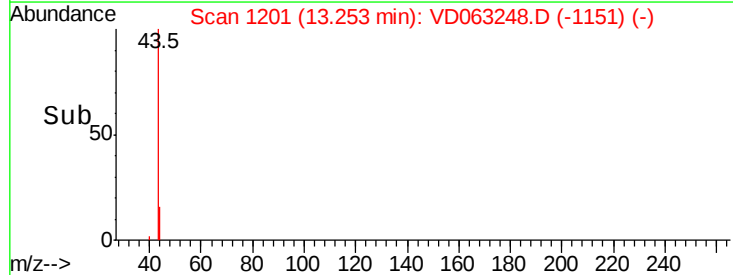
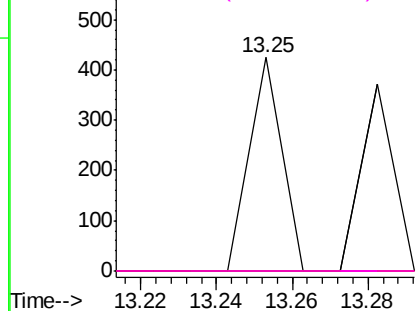
#74

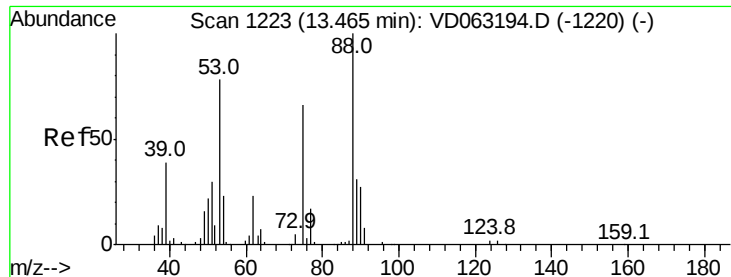
N-ethyl acetate
Concen: 1.304 ug/l
RT: 13.25 min Scan# 1201
Delta R.T. -0.00 min
Lab File: VD063248.D
Acq: 30 Jul 2019 18:11

Tgt Ion: 43 Resp: 251
Ion Ratio Lower Upper
43 100
70 0.0 20.2 30.4#
55 0.0 14.9 22.3#
61 0.0 17.9 26.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 109.210 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

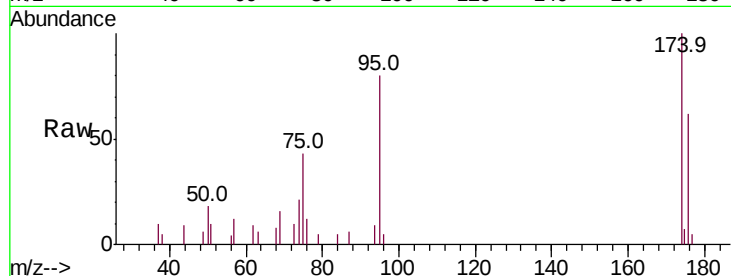
Tot Ion: 75 Resp: 4226

Ion Ratio Lower Upper

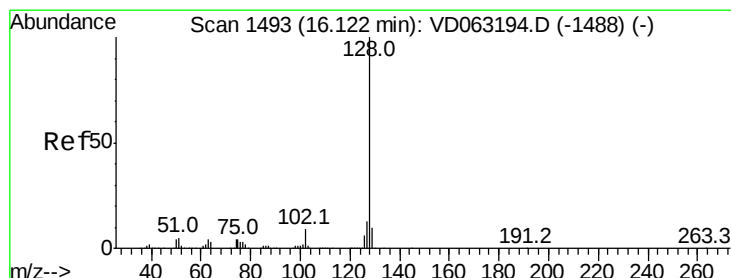
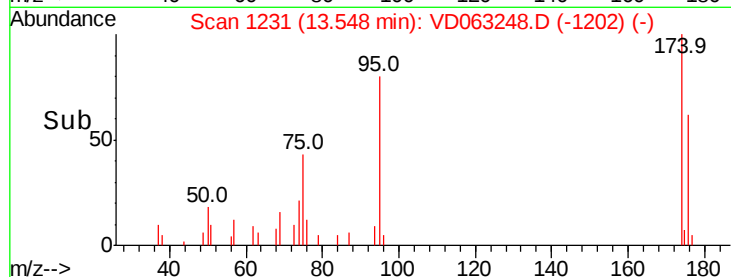
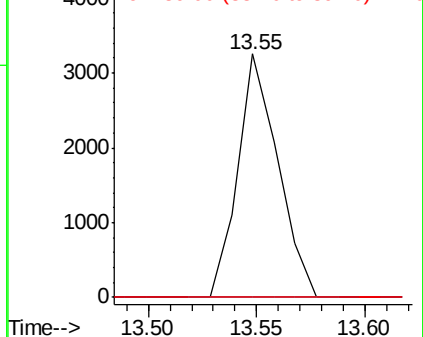
75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



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



#95

Naphthalene

Concen: 2.115 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VD063248.D

Acq: 30 Jul 2019 18:11

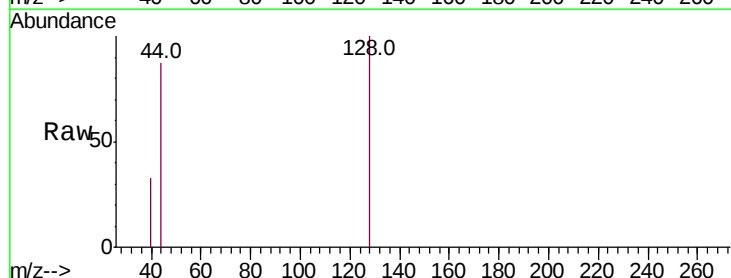
Tgt Ion: 128 Resp: 759

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 7.8 11.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

