

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091418\
 Data File : VD060010.D
 Acq On : 14 Sep 2018 15:15
 Operator : JC/SY
 Sample : J4883-01RE
 Misc : 5.15g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

Quant Time: Sep 14 15:40:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	8384	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.42	114	14803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	12818	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	6209	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.75	65	6187	94.63	ug/l	0.00
Spiked Amount			Recovery	=	189.26%	
35) Dibromofluoromethane	6.29	113	5311	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
50) Toluene-d8	9.44	98	12954	40.42	ug/l	0.00
Spiked Amount			Recovery	=	80.84%	
62) 4-Bromofluorobenzene	12.42	95	6161	50.31	ug/l	0.01
Spiked Amount			Recovery	=	100.62%	

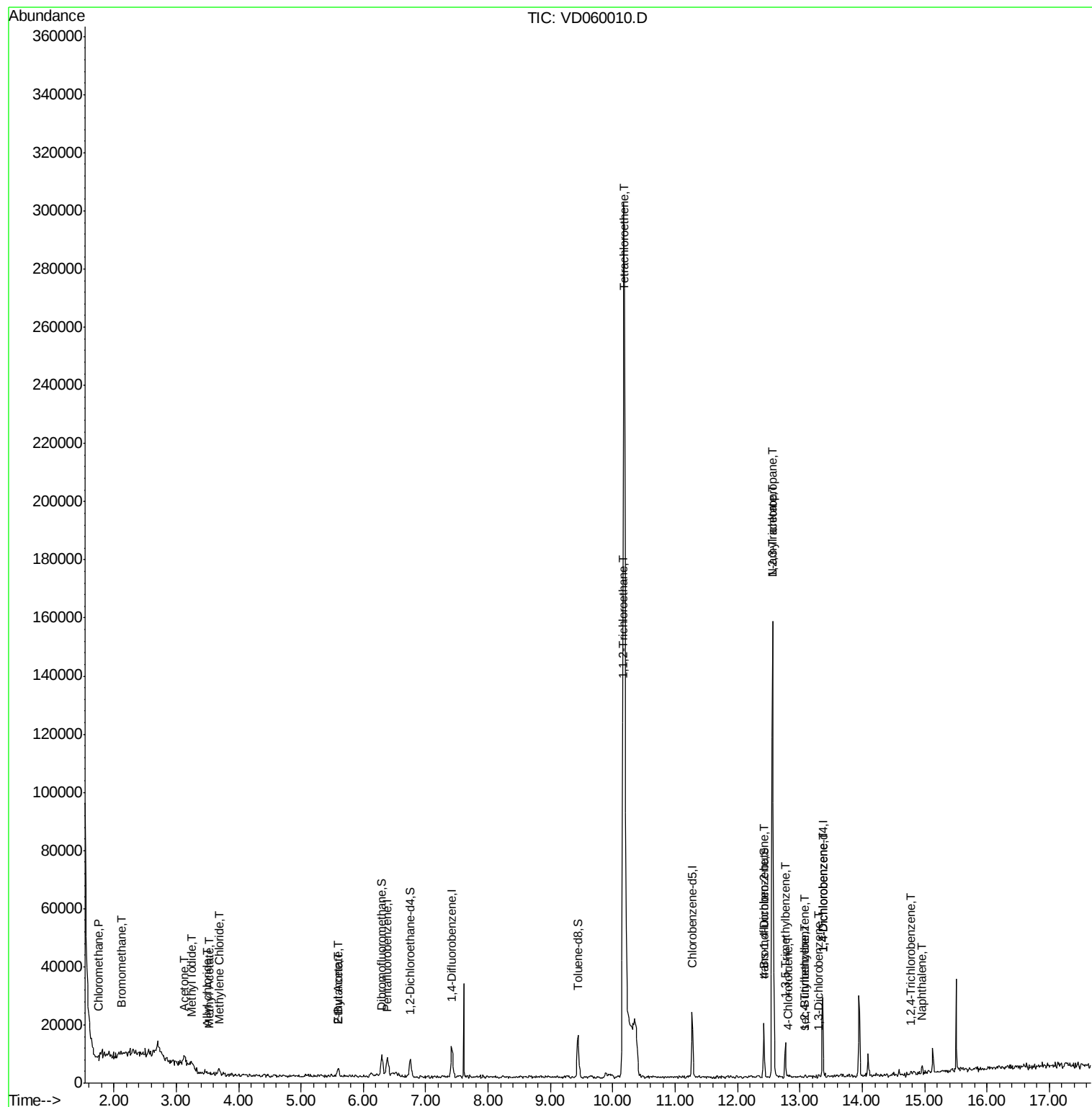
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	521	6.66	ug/l #	43
5) Bromomethane	2.13	94	184	24.74	ug/l #	1
10) Methyl Iodide	3.24	142	1491	32.27	ug/l #	31
14) Allyl chloride	3.49	41	190	2.61	ug/l #	19
16) Acetone	3.12	43	7951	629.87	ug/l	95
18) Methyl Acetate	3.52	43	203	7.91	ug/l #	64
20) Methylene Chloride	3.68	84	1368	9.37	ug/l #	75
25) 2-Butanone	5.61	43	183	5.37	ug/l #	61
37) Ethyl Acetate	5.61	43	183	1.81	ug/l #	72
55) 1,1,2-Trichloroethane	10.15	97	379	4.54	ug/l #	14
59) 2-Hexanone	10.47	43	365	Below Cal	#	30
64) Tetrachloroethene	10.18	164	637	5.63	ug/l #	21
74) N-amyl acetate	12.56	43	526	3.26	ug/l #	52
76) 1,2,3-Trichloropropane	12.55	75	1079	11.38	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.78	105	361	1.16	ug/l #	28
81) trans-1,4-Dichloro-2-buten	12.41	75	2789	97.43	ug/l #	15
82) 4-Chlorotoluene	12.81	91	560	1.76	ug/l #	44
84) 1,2,4-Trimethylbenzene	13.09	105	605	1.82	ug/l #	31
85) sec-Butylbenzene	13.09	105	605	1.41	ug/l #	62
87) 1,3-Dichlorobenzene	13.30	146	464	2.27	ug/l #	25
88) 1,4-Dichlorobenzene	13.38	146	667	3.22	ug/l #	25
89) n-Butylbenzene	13.64	91	189	Below Cal	#	29
91) 1,2-Dichlorobenzene	13.65	146	183	Below Cal	#	49
93) 1,2,4-Trichlorobenzene	14.78	180	293	2.02	ug/l #	66
95) Naphthalene	14.96	128	2139	9.53	ug/l #	70

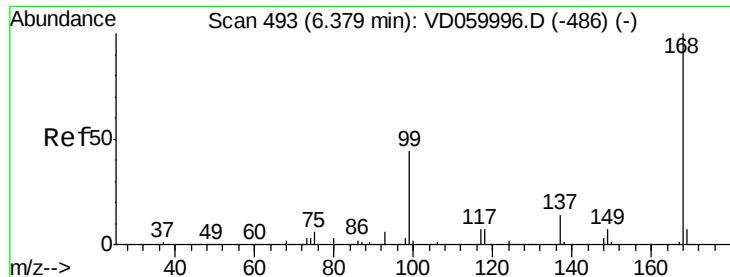
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD091418\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.39 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

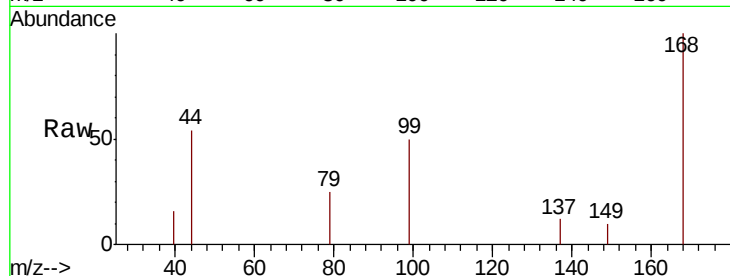
Instrument :
MSVOA_D
ClientSampleId :
292RE

Tot Ion:168 Resp: 8384

Ion Ratio Lower Upper

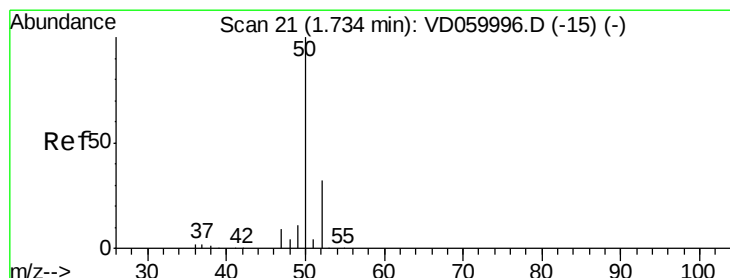
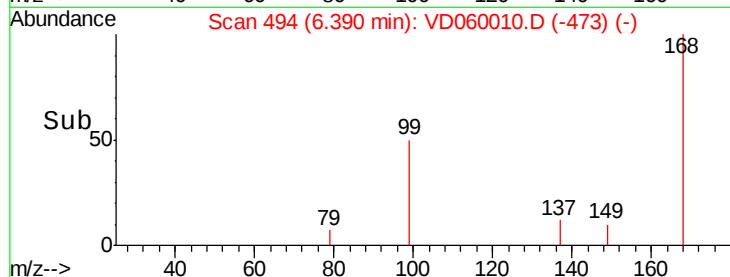
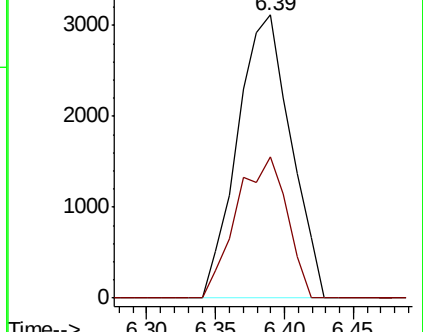
168 100

99 50.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 6.66 ug/l

RT: 1.74 min Scan# 22

Delta R.T. 0.01 min

Lab File: VD060010.D

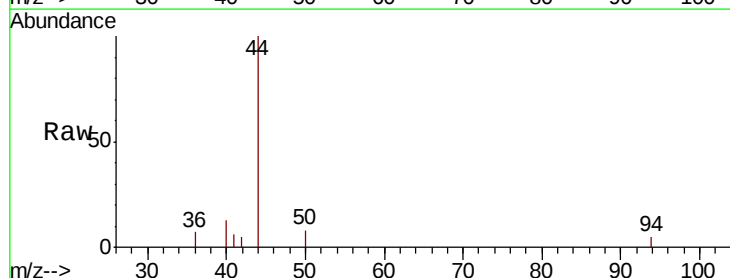
Acq: 14 Sep 2018 15:15

Tgt Ion: 50 Resp: 521

Ion Ratio Lower Upper

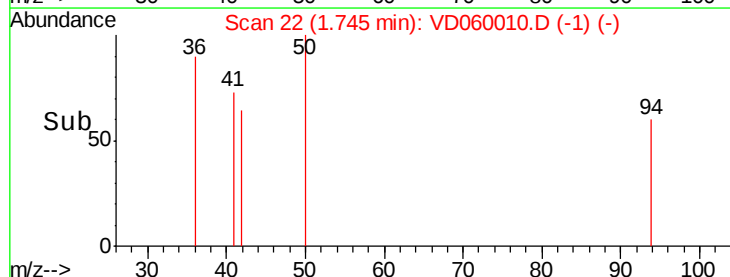
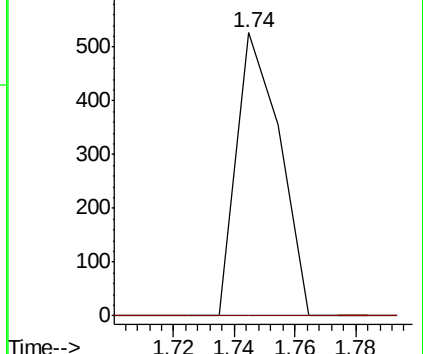
50 100

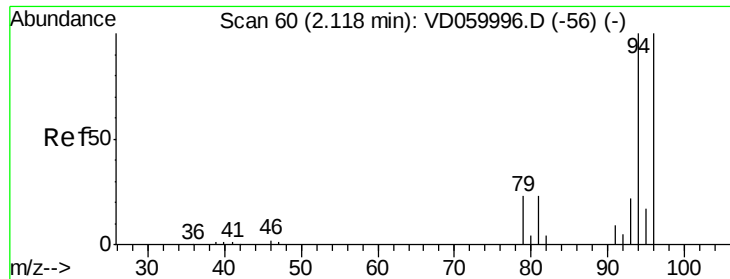
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 24.74 ug/l

RT: 2.13 min Scan# 61

Delta R.T. 0.01 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

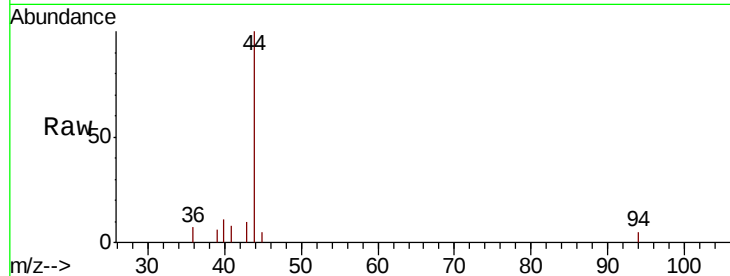
292RE

Tot Ion: 94 Resp: 184

Ion Ratio Lower Upper

94 100

96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

400

300

200

100

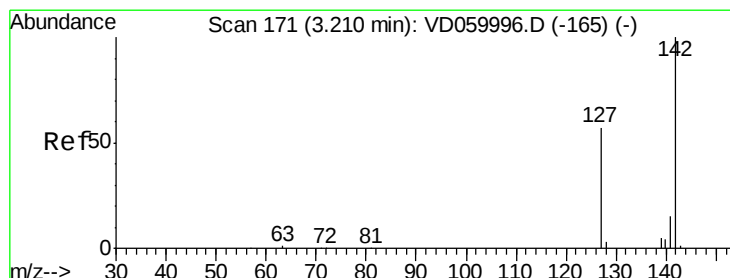
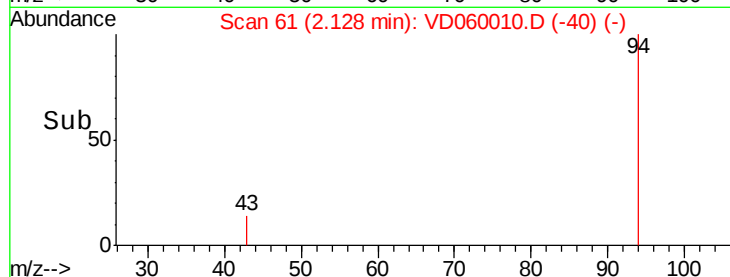
0

2.10

2.12

2.14

Time-->



#10

Methyl Iodide

Concen: 32.27 ug/l

RT: 3.24 min Scan# 174

Delta R.T. 0.03 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

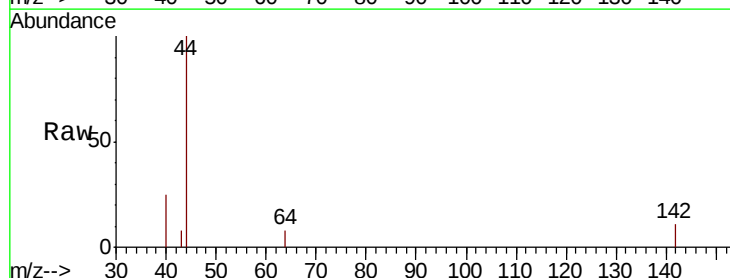
Tgt Ion: 142 Resp: 1491

Ion Ratio Lower Upper

142 100

127 0.0 45.8 68.8#

141 0.0 12.2 18.4#



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

600

400

200

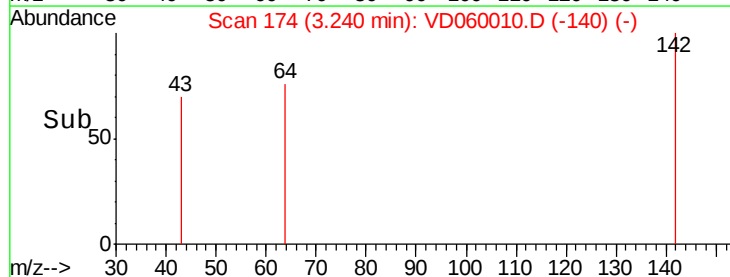
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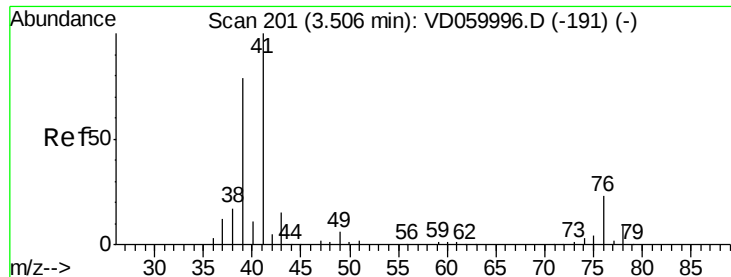
3.20

3.25

3.30

Time-->

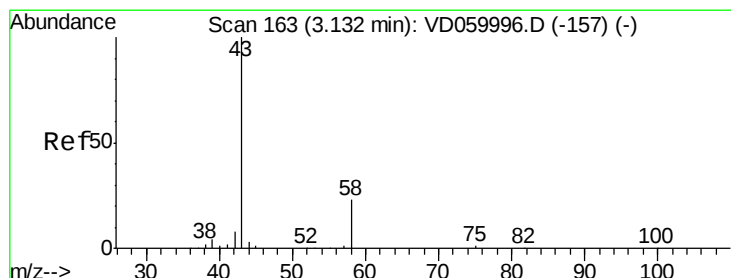
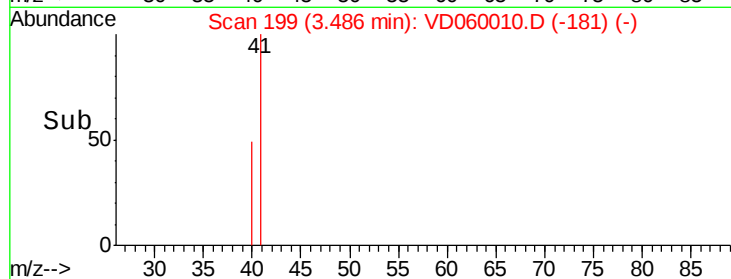
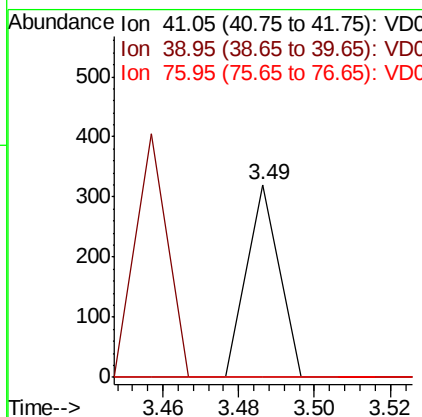
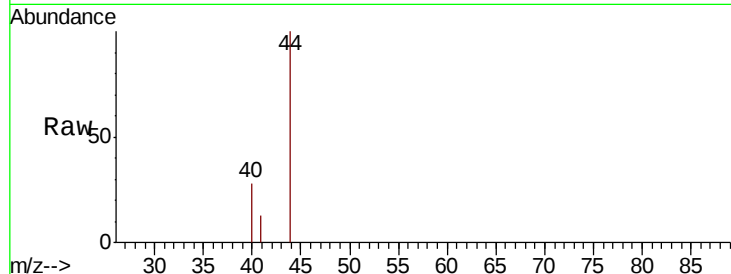




#14
Allvl chloride
Concen: 2.61 ug/l
RT: 3.49 min Scan# 199
Delta R.T. -0.02 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

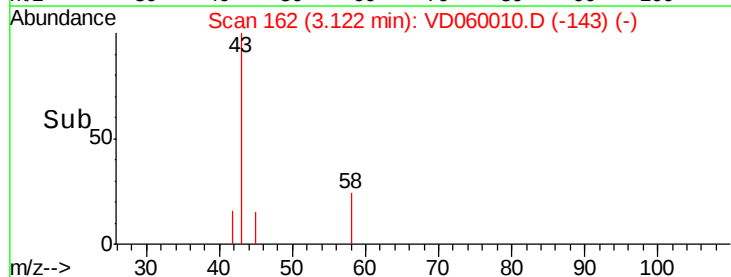
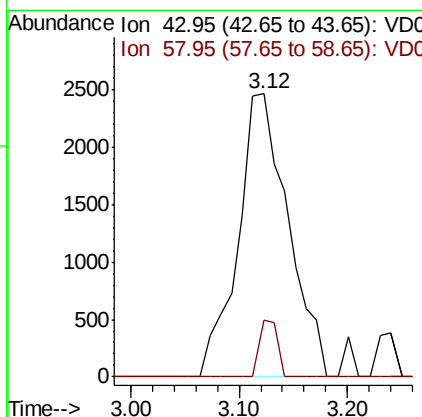
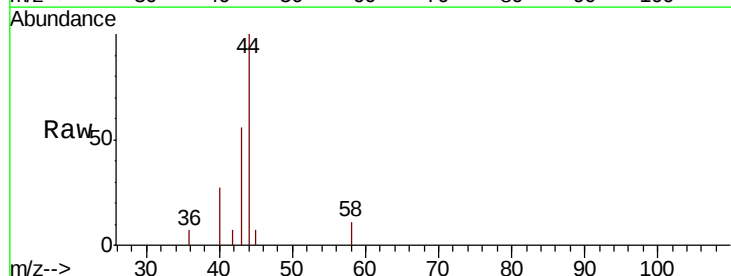
Instrument :
MSVOA_D
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292RE

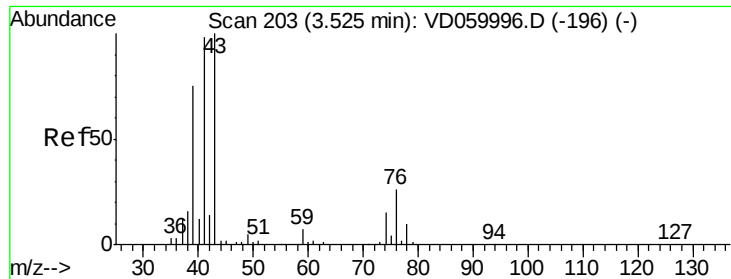
Tot Ion: 41 Resp: 190
Ion Ratio Lower Upper
41 100
39 0.0 63.6 95.4#
76 0.0 21.1 31.7#



#16
Acetone
Concen: 629.87 ug/l
RT: 3.12 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

Tgt Ion: 43 Resp: 7951
Ion Ratio Lower Upper
43 100
58 20.0 18.1 27.1

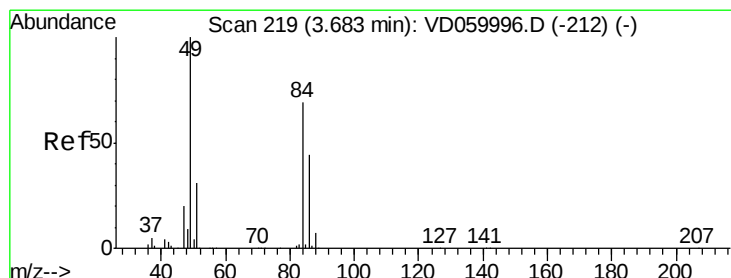
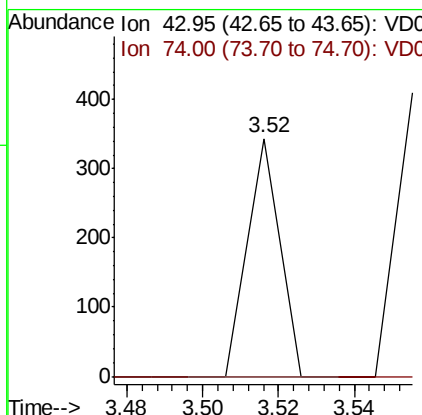
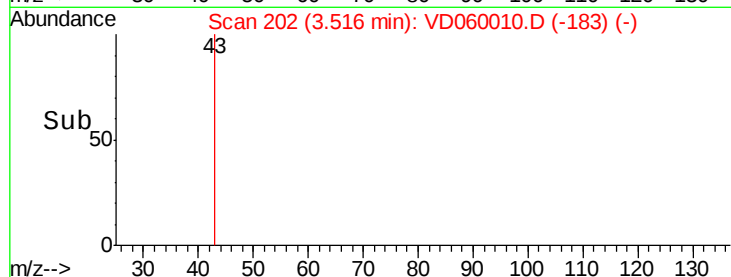
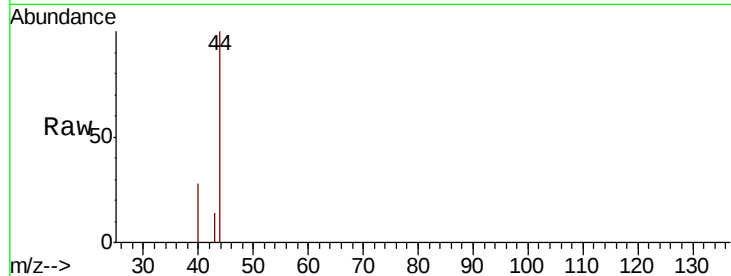




#18
Methyl Acetate
Concen: 7.91 ug/l
RT: 3.52 min Scan# 202
Delta R.T. -0.01 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

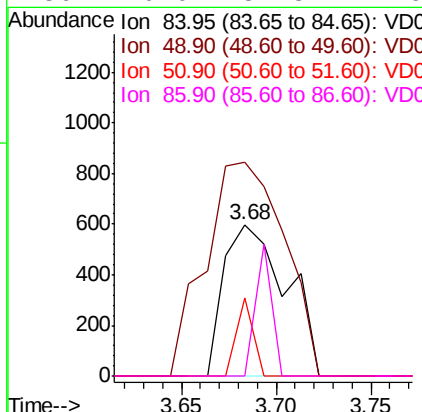
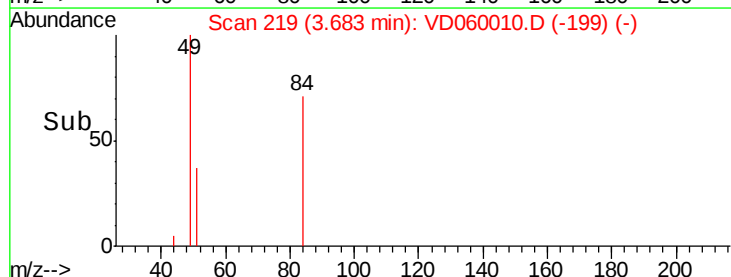
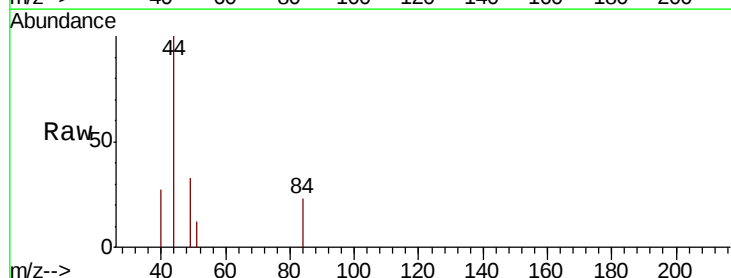
Instrument :
MSVOA_D
ClientSampleId :
292RE

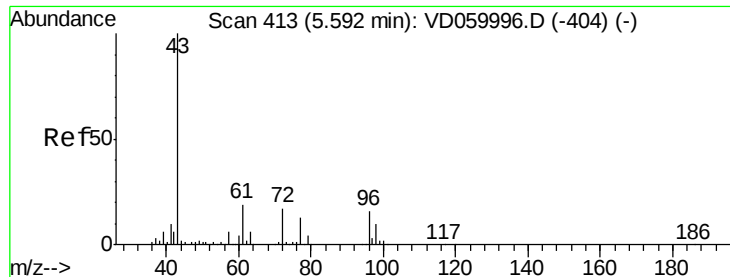
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: 9.37 ug/l
RT: 3.68 min Scan# 219
Delta R.T. 0.00 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

Tgt Ion: 84 Resp: 1368
Ion Ratio Lower Upper
84 100
49 140.9 116.6 175.0
51 51.9 35.9 53.9
86 0.0 51.8 77.6#





#25

2-Butanone

Concen: 5.37 ug/l

RT: 5.61 min Scan# 415

Delta R.T. 0.02 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

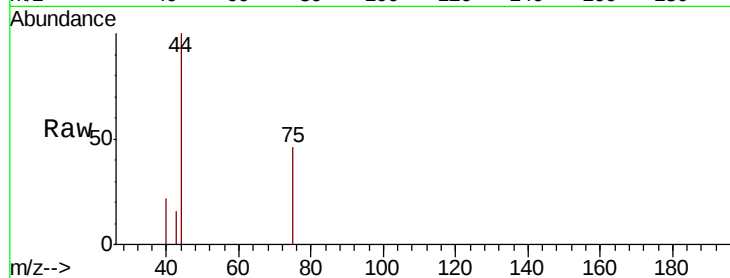
292RE

Tot Ion: 43 Resp: 183

Ion Ratio Lower Upper

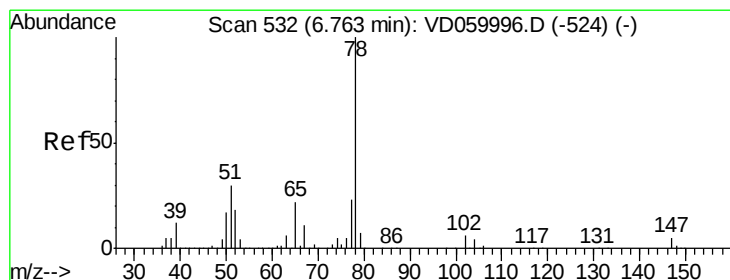
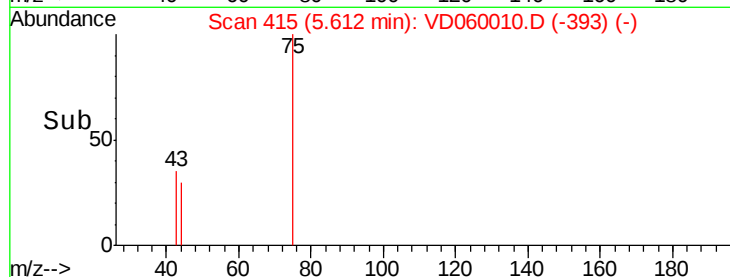
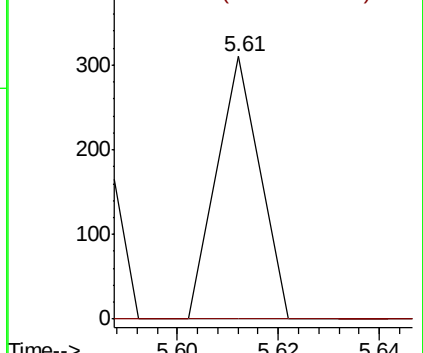
43 100

72 0.0 13.6 20.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.75 min Scan# 531

Delta R.T. -0.01 min

Lab File: VD060010.D

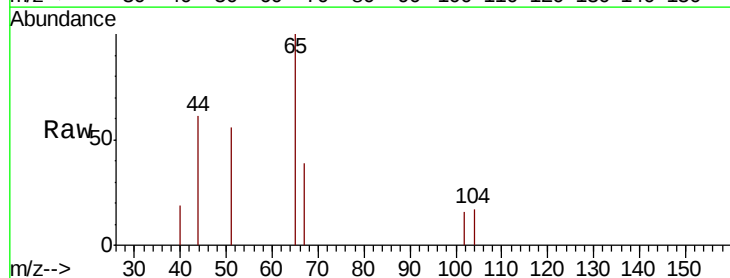
Acq: 14 Sep 2018 15:15

Tgt Ion: 65 Resp: 6187

Ion Ratio Lower Upper

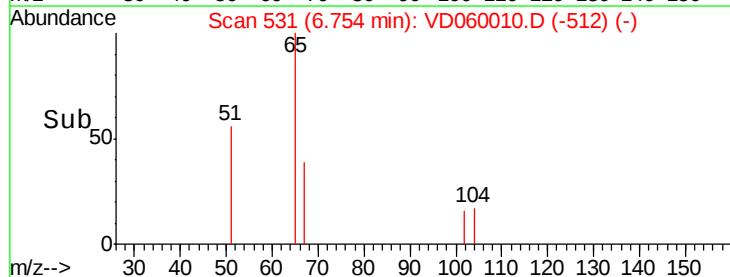
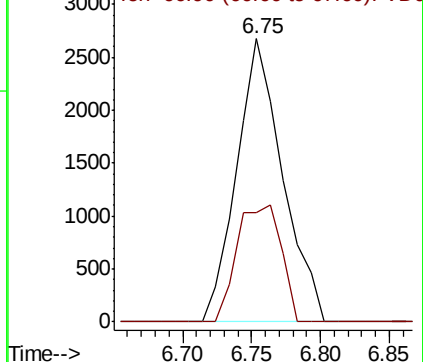
65 100

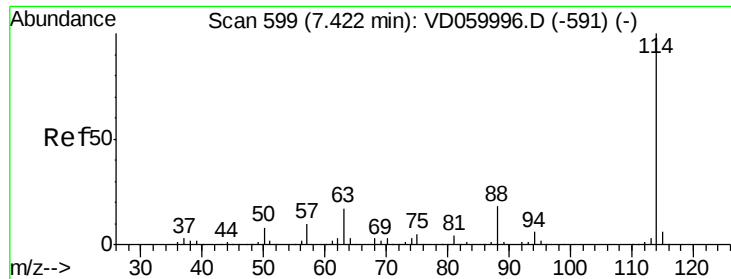
67 38.7 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

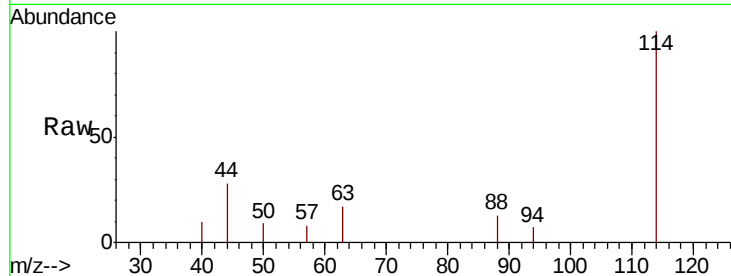




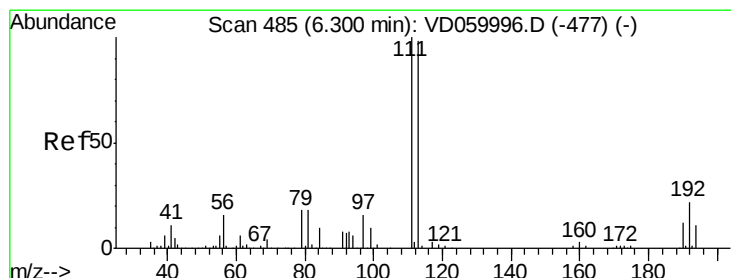
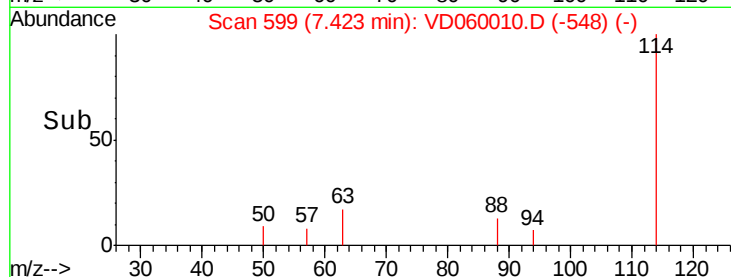
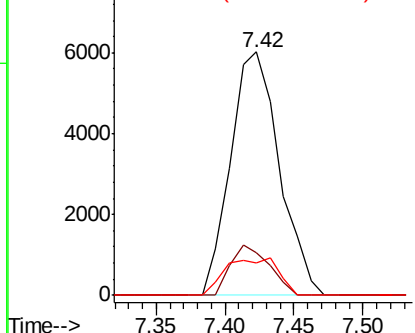
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. 0.00 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

Tot Ion:114 Resp: 14803
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 34.4
 88 13.3 0.0 35.8

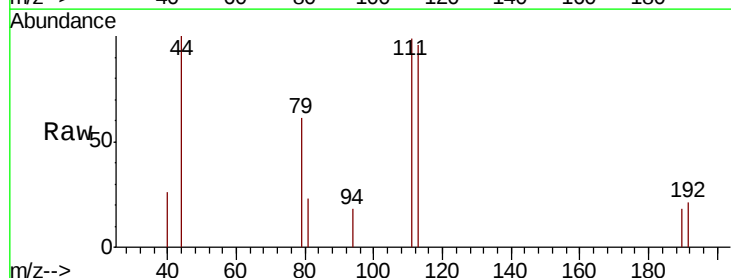


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

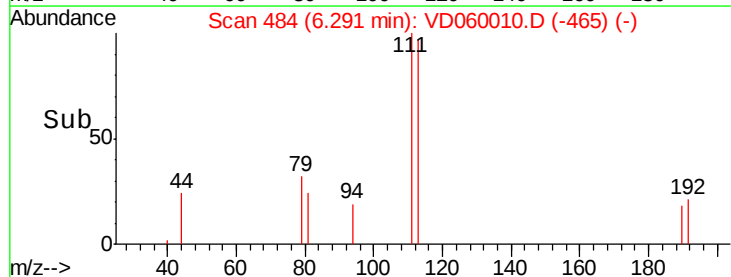
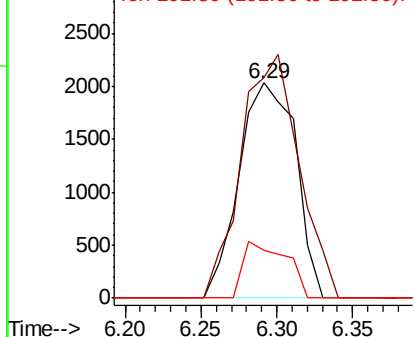


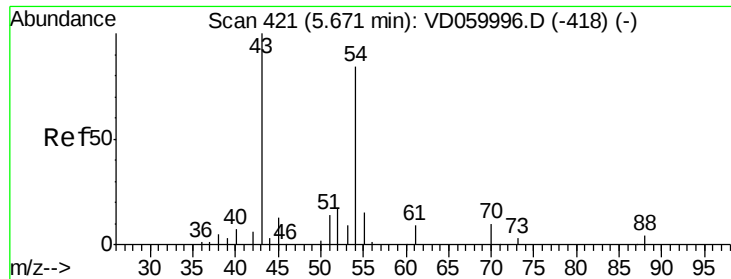
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.29 min Scan# 484
 Delta R.T. -0.01 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Tgt Ion:113 Resp: 5311
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.3 121.9
 192 22.0 18.1 27.1



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

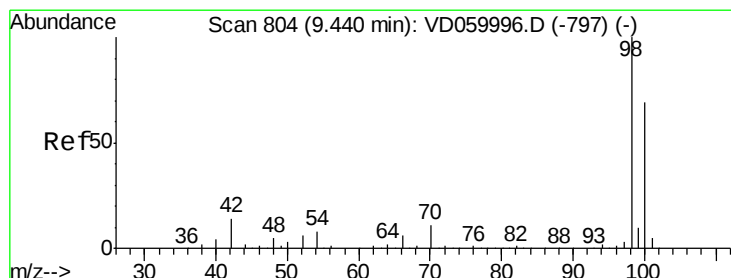
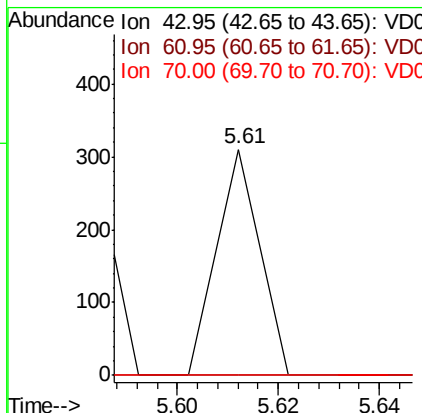
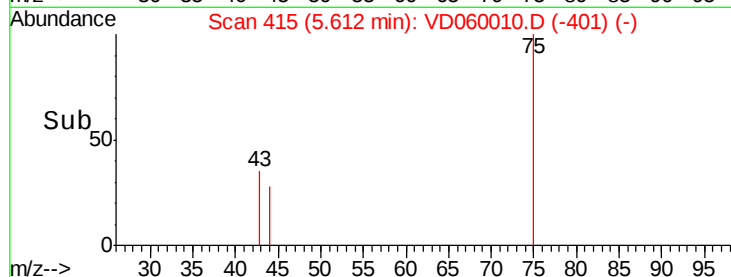
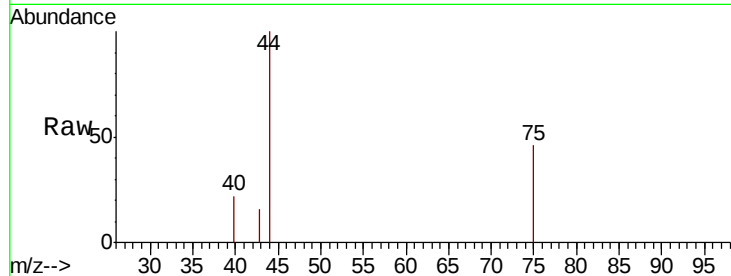




#37
Ethyl Acetate
Concen: 1.81 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.06 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

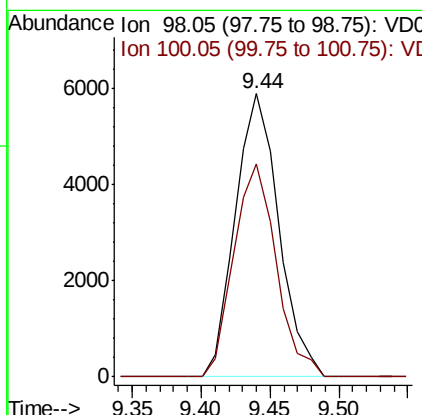
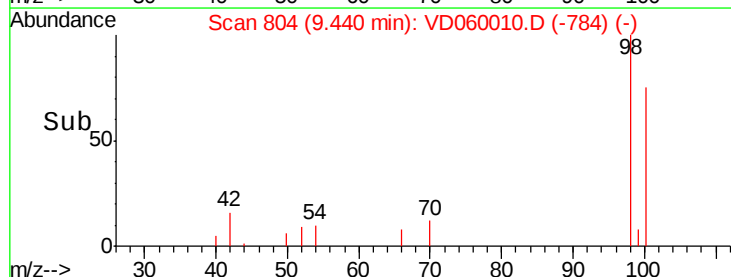
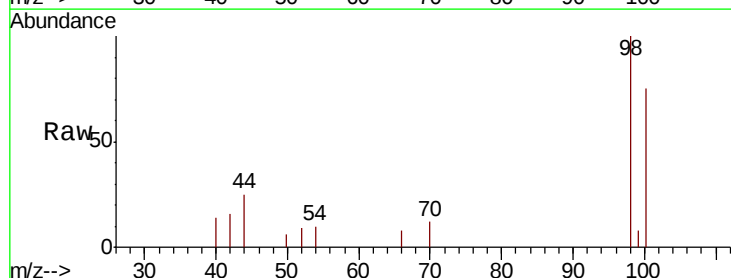
Instrument :
MSVOA_D
ClientSampleId :
292RE

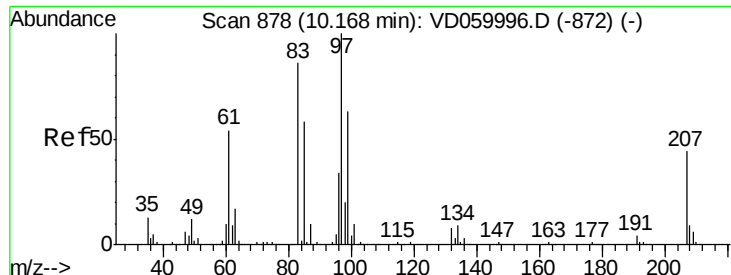
Tot Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 6.1 9.1#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 804
Delta R.T. 0.00 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

Tgt Ion: 98 Resp: 12954
Ion Ratio Lower Upper
98 100
100 75.1 55.8 83.6

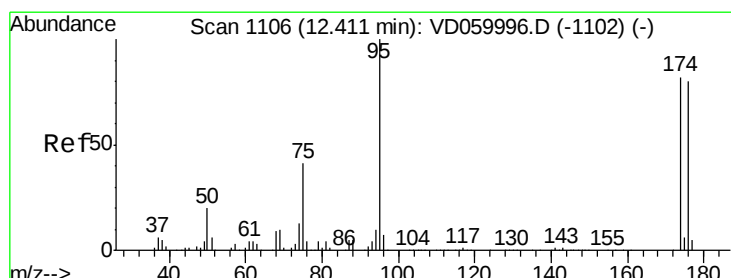
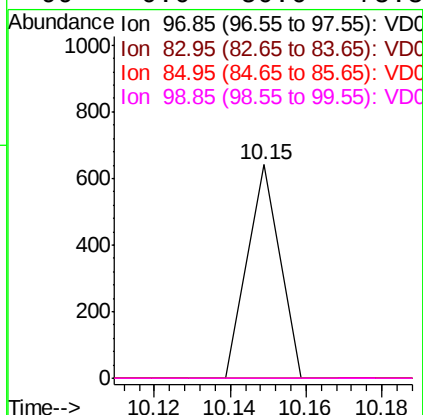
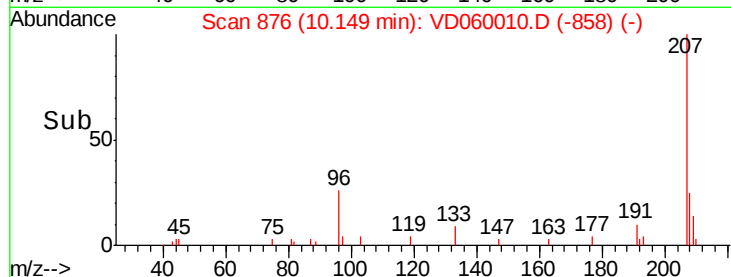
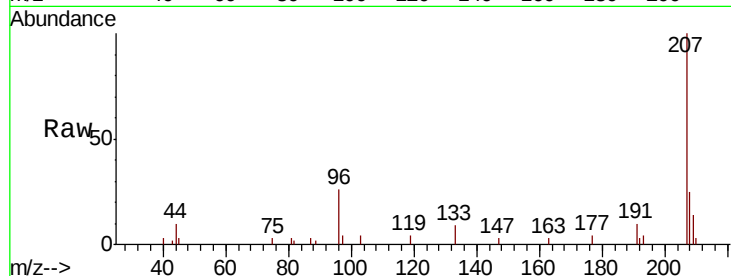




#55
 1,1,2-Trichloroethane
 Concen: 4.54 ug/l
 RT: 10.15 min Scan# 876
 Delta R.T. -0.02 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

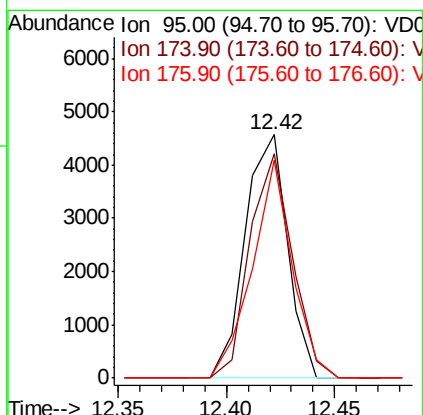
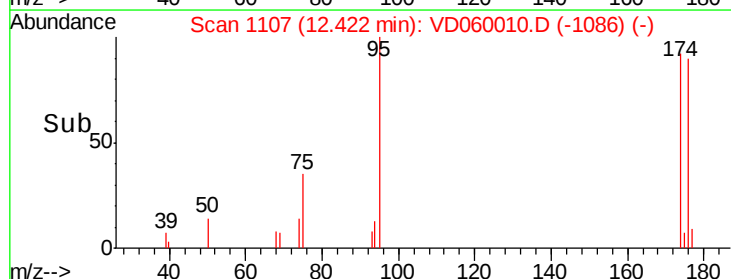
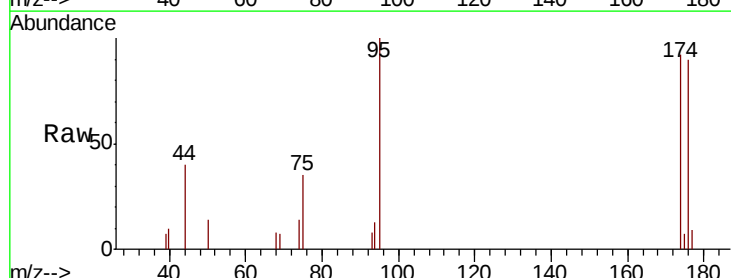
Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

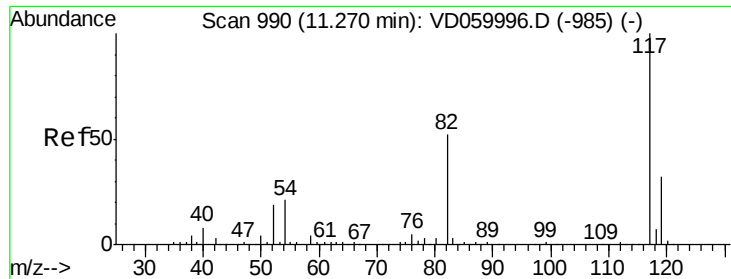
Tot Ion:	97	Resp:	379
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.1	103.7#
85	0.0	46.2	69.4#
99	0.0	50.6	75.8#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 12.42 min Scan# 1107
 Delta R.T. 0.01 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Tgt Ion:	95	Resp:	6161
Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	165.0
176	89.5	0.0	160.2

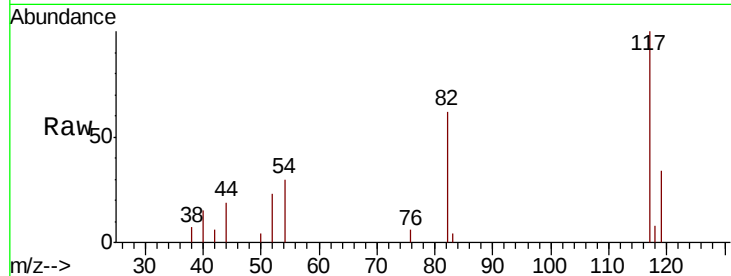




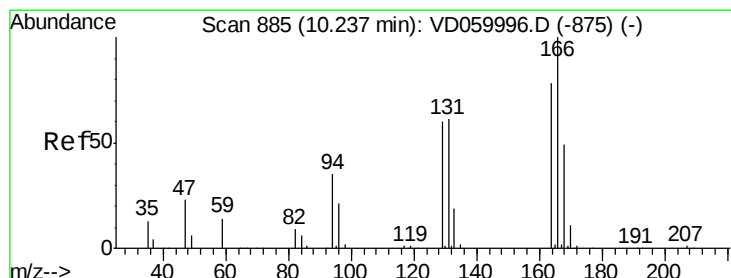
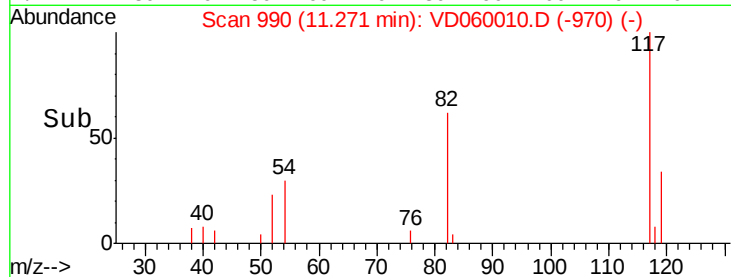
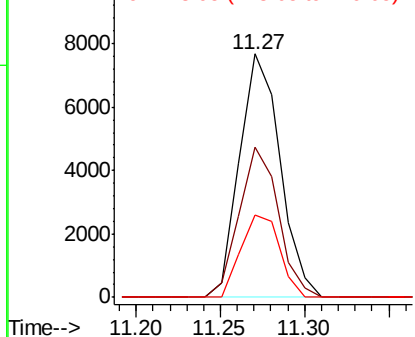
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.27 min Scan# 990
Delta R.T. 0.00 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

Instrument :
MSVOA_D
ClientSampled :
292RE

Tot Ion:117 Resp: 12818
Ion Ratio Lower Upper
117 100
82 61.6 41.7 62.5
119 33.8 26.0 39.0

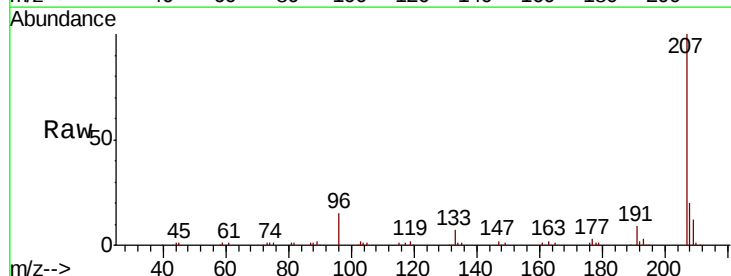


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

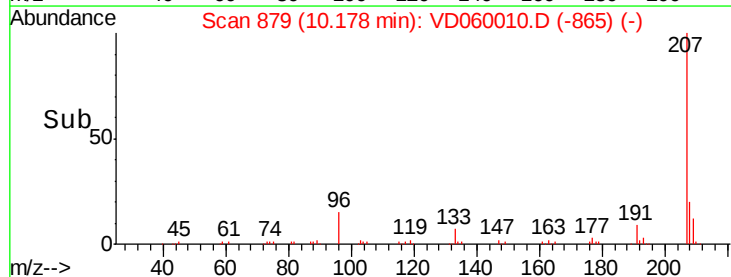
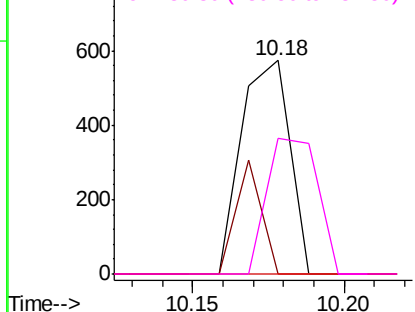


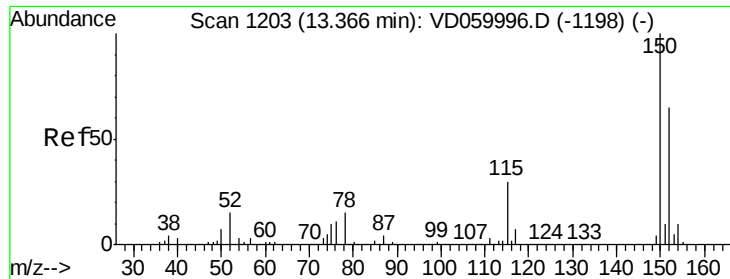
#64
Tetrachloroethene
Concen: 5.63 ug/l
RT: 10.18 min Scan# 879
Delta R.T. -0.06 min
Lab File: VD060010.D
Acq: 14 Sep 2018 15:15

Tgt Ion:164 Resp: 637
Ion Ratio Lower Upper
164 100
166 0.0 103.0 154.6#
129 0.0 61.9 92.9#
131 63.2 62.6 93.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

292RE

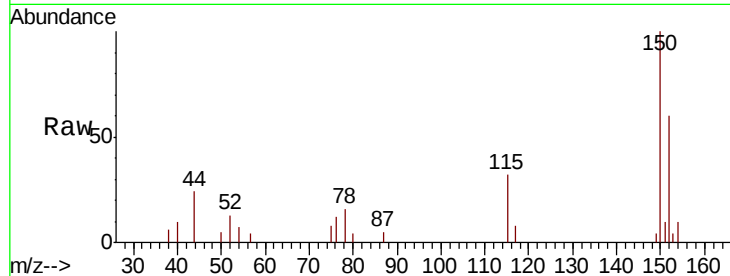
Tot Ion:152 Resp: 6209

Ion Ratio Lower Upper

152 100

115 54.0 24.6 73.8

150 167.7 0.0 313.4

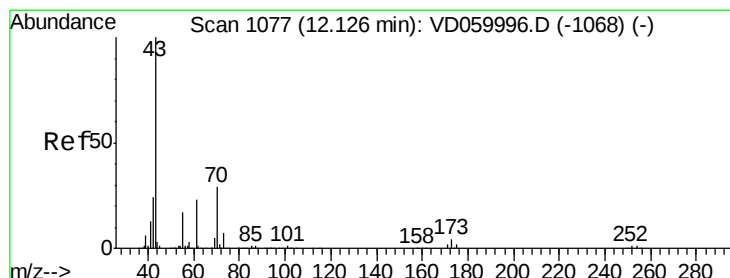
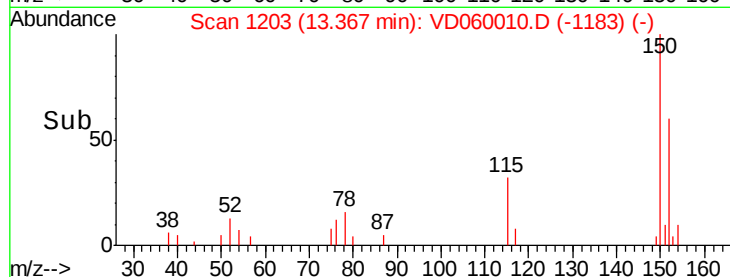
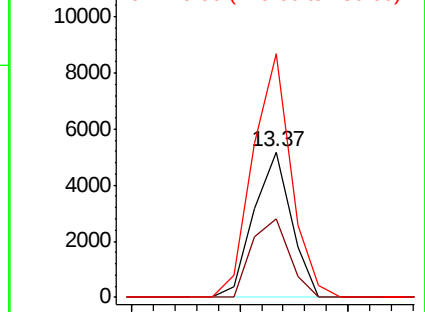


Abundance

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: 3.26 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. 0.43 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Tgt Ion: 43 Resp: 526

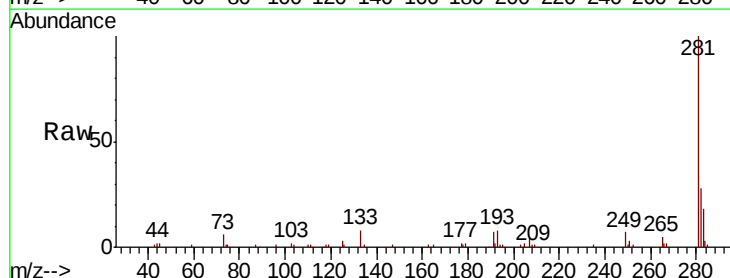
Ion Ratio Lower Upper

43 100

70 0.0 22.9 34.3#

55 0.0 14.0 21.0#

61 0.0 18.7 28.1#



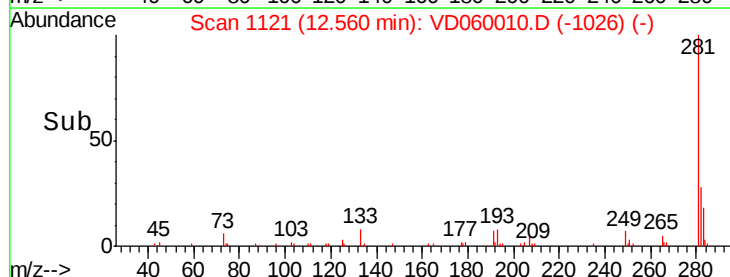
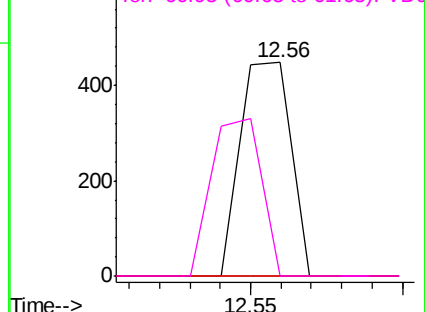
Abundance

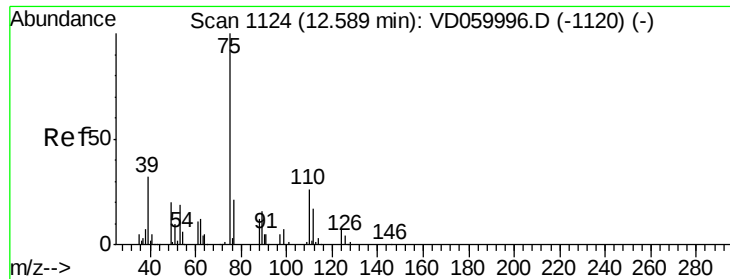
Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 11.38 ug/l

RT: 12.55 min Scan# 1120

Delta R.T. -0.04 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

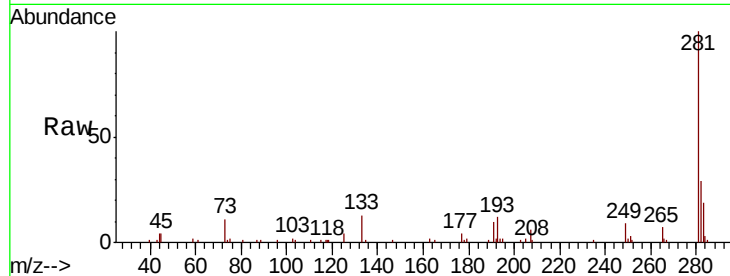
292RE

Tot Ion: 75 Resp: 1079

Ion Ratio Lower Upper

75 100

77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

12.55

800

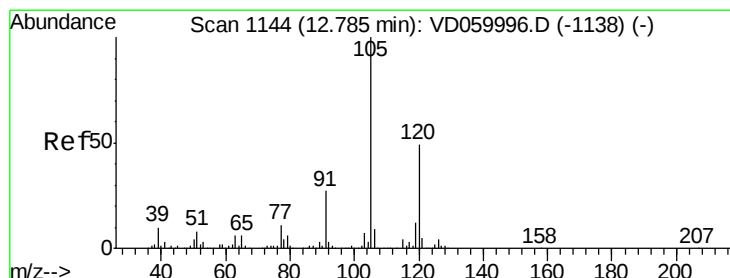
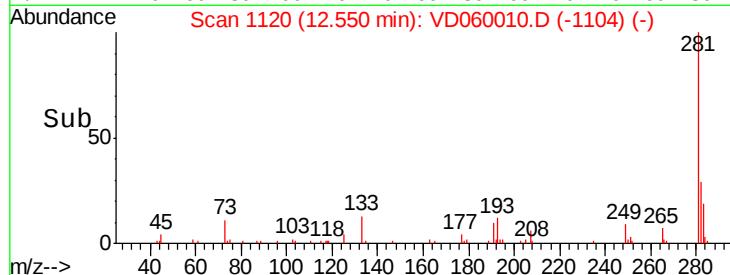
600

400

200

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.16 ug/l

RT: 12.78 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VD060010.D

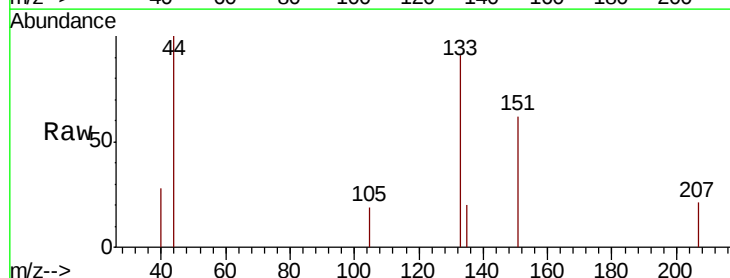
Acq: 14 Sep 2018 15:15

Tgt Ion: 105 Resp: 361

Ion Ratio Lower Upper

105 100

120 0.0 24.4 73.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.78

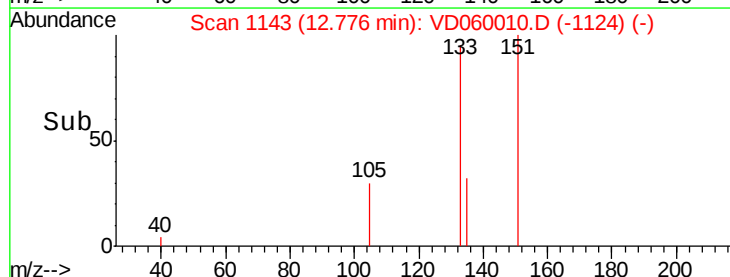
300

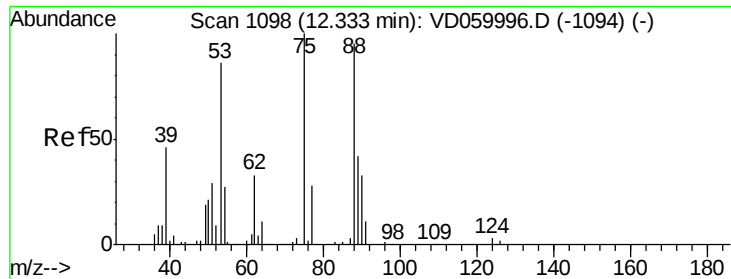
200

100

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 97.43 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.08 min

Lab File: VD060010.D

Acq: 14 Sep 2018 15:15

Instrument :

MSVOA_D

ClientSampleId :

292RE

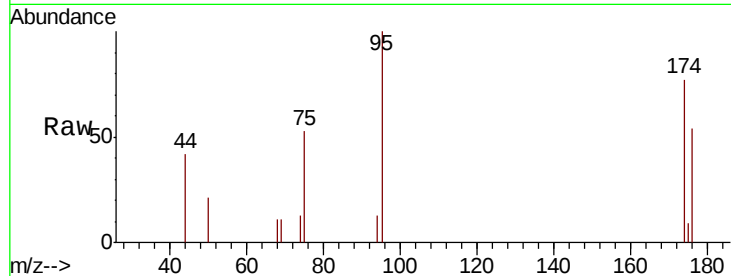
Tot Ion: 75 Resp: 2789

Ion Ratio Lower Upper

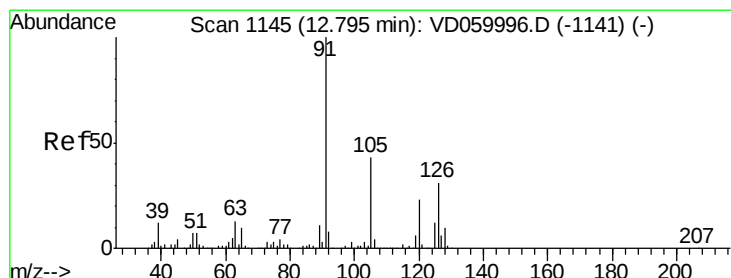
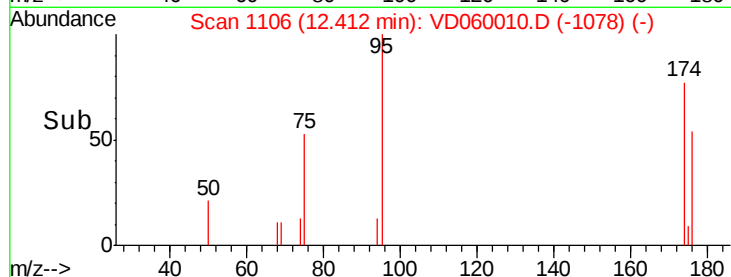
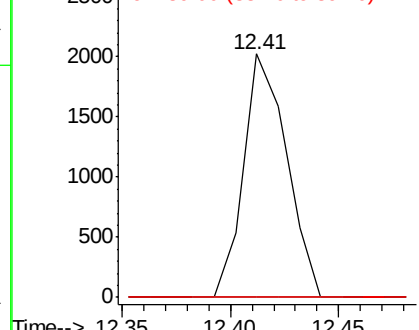
75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



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: 1.76 ug/l

RT: 12.81 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060010.D

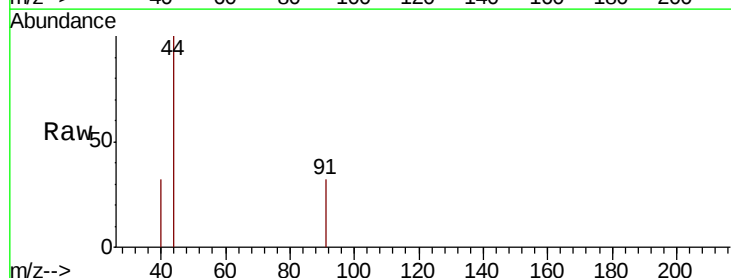
Acq: 14 Sep 2018 15:15

Tgt Ion: 91 Resp: 560

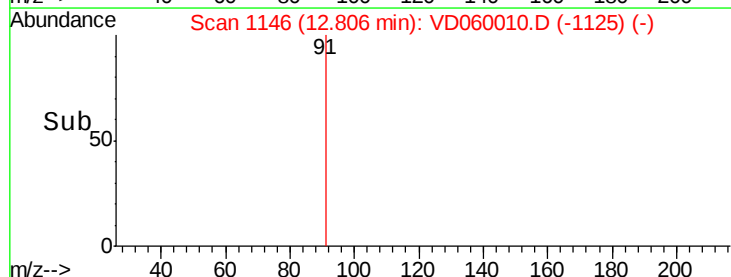
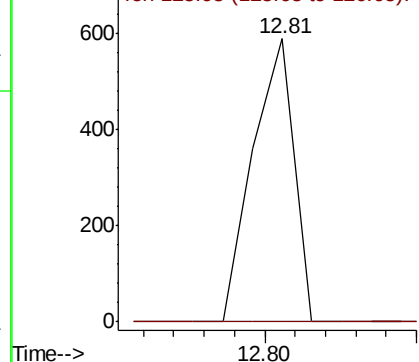
Ion Ratio Lower Upper

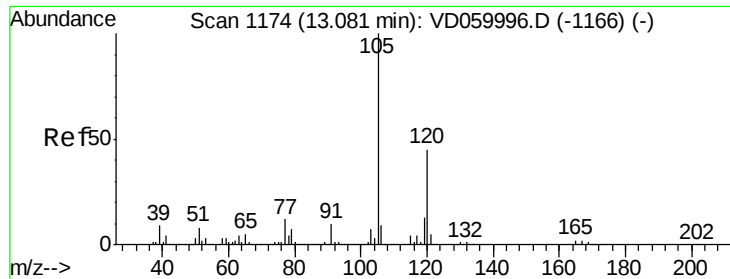
91 100

126 0.0 15.4 46.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

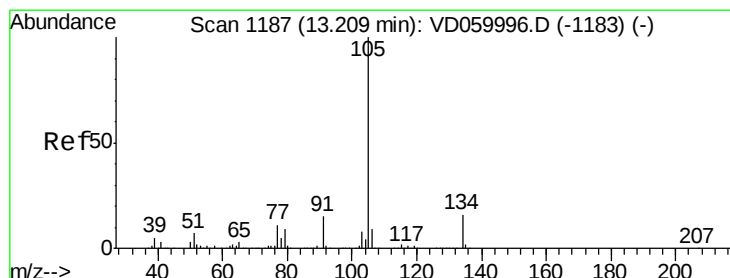
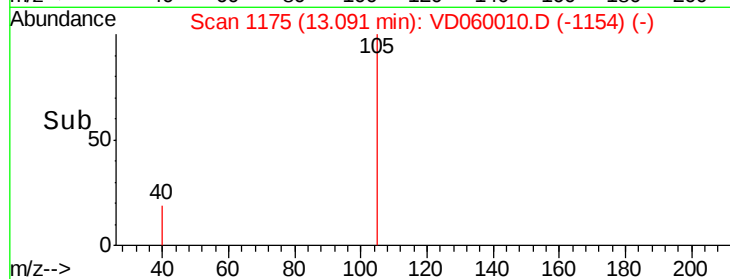
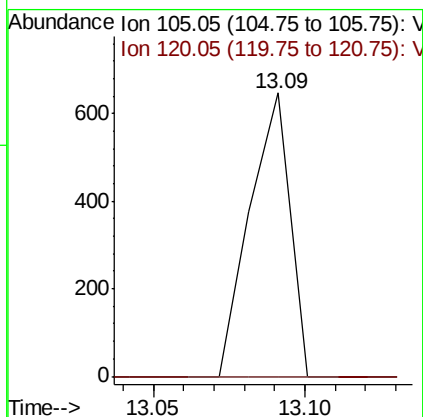
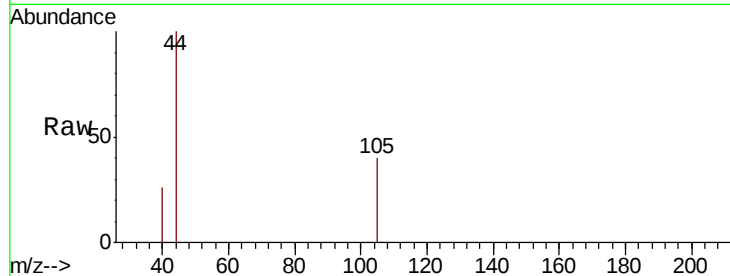




#84
 1,2,4-Trimethylbenzene
 Concen: 1.82 ug/l
 RT: 13.09 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

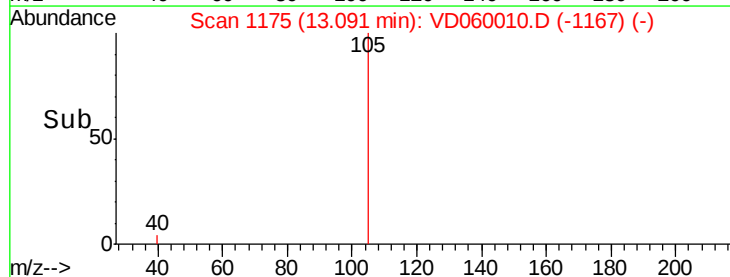
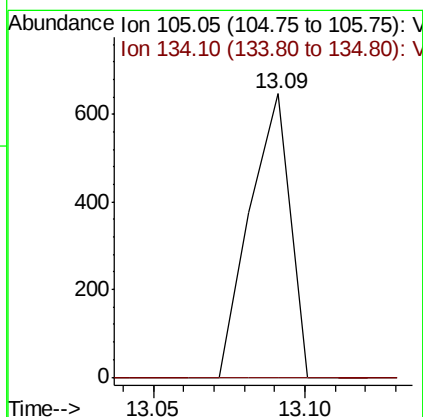
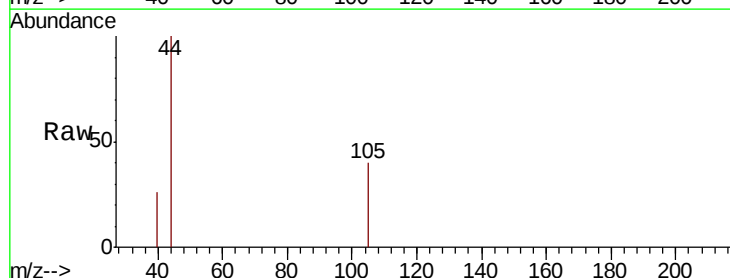
Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

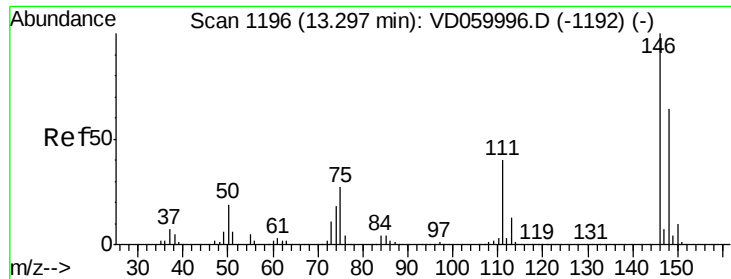
Tot Ion:105 Resp: 605
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.4 67.0#



#85
 sec-Butylbenzene
 Concen: 1.41 ug/l
 RT: 13.09 min Scan# 1175
 Delta R.T. -0.12 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Tgt Ion:105 Resp: 605
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.2 24.6#

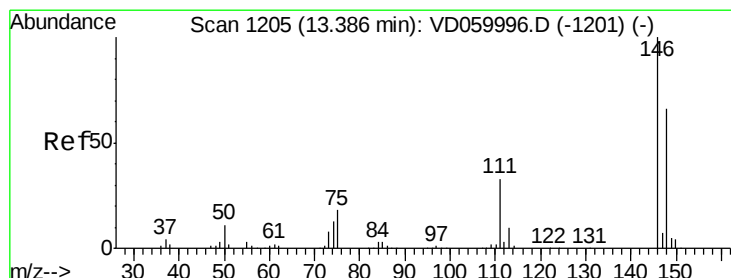
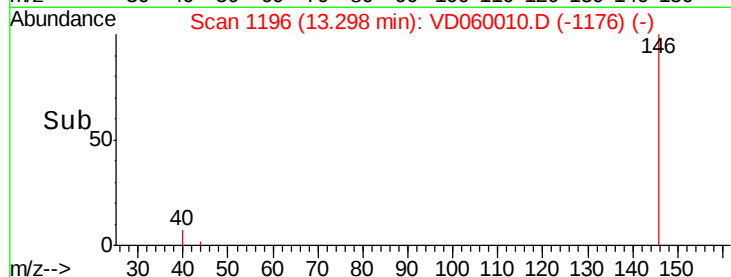
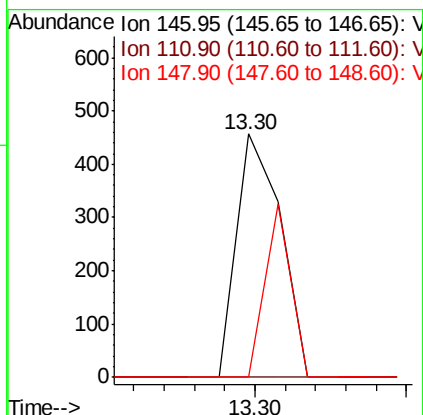
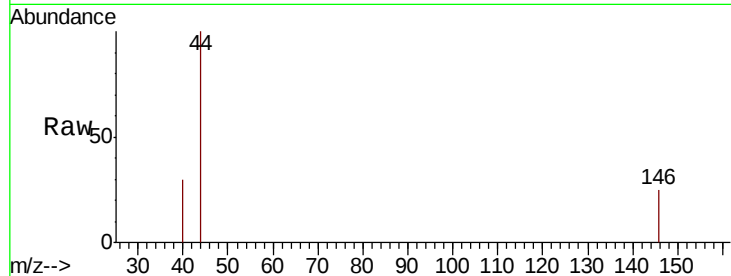




#87
 1,3-Dichlorobenzene
 Concen: 2.27 ug/l
 RT: 13.30 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

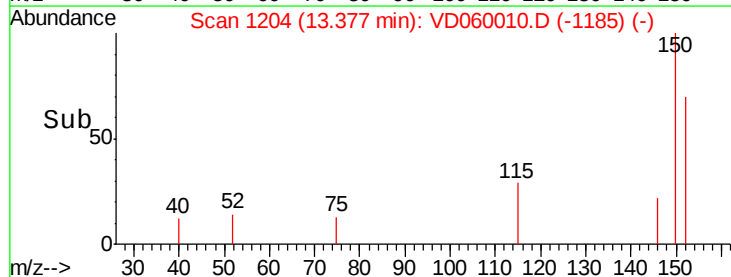
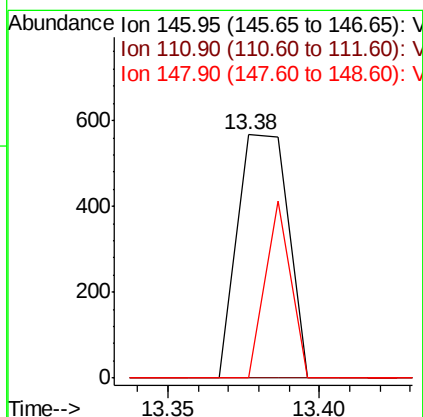
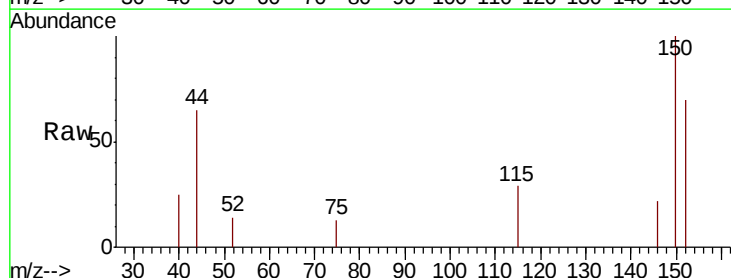
Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

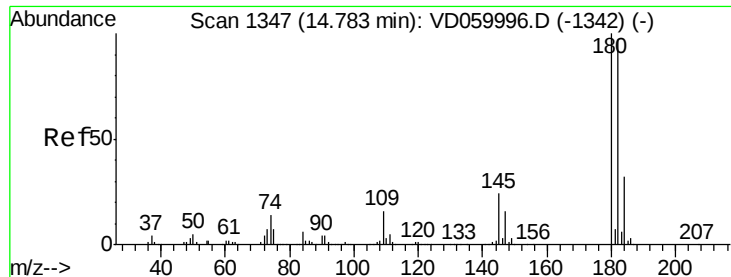
Tot Ion:146 Resp: 464
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.2 60.5#
 148 0.0 32.0 96.2#



#88
 1,4-Dichlorobenzene
 Concen: 3.22 ug/l
 RT: 13.38 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Tgt Ion:146 Resp: 667
 Ion Ratio Lower Upper
 146 100
 111 0.0 16.7 50.0#
 148 0.0 32.9 98.6#

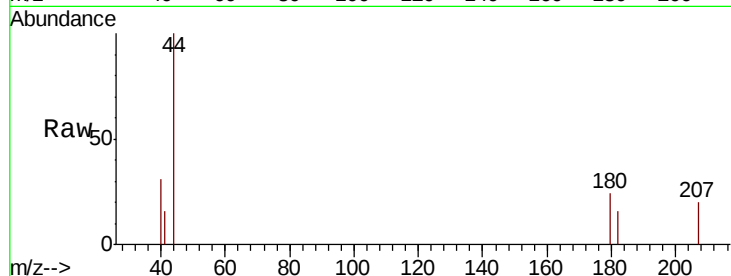




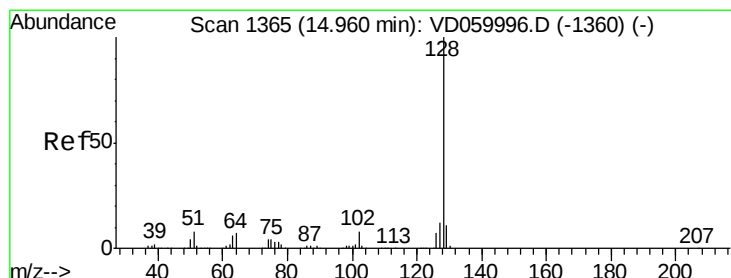
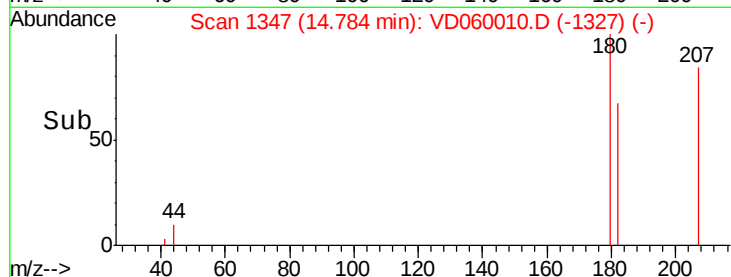
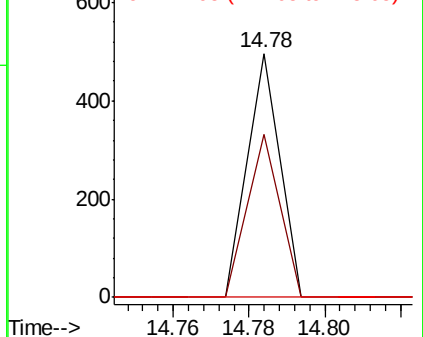
#93
 1,2,4-Trichlorobenzene
 Concen: 2.02 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. 0.00 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Instrument :
 MSVOA_D
 ClientSampleId :
 292RE

Tot Ion:180 Resp: 293
 Ion Ratio Lower Upper
 180 100
 182 66.9 48.5 145.6
 145 0.0 11.9 35.7#

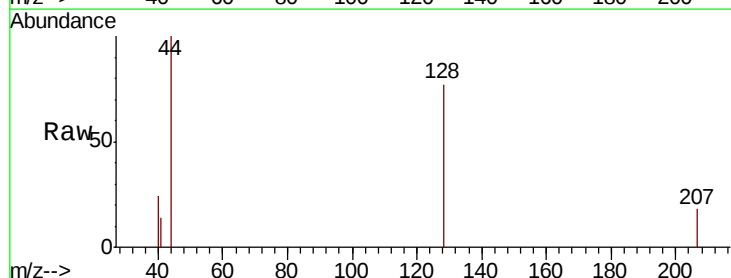


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 9.53 ug/l
 RT: 14.96 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD060010.D
 Acq: 14 Sep 2018 15:15

Tgt Ion:128 Resp: 2139
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 0.0 8.9 13.3#



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

