

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091718\
 Data File : VD060020.D
 Acq On : 17 Sep 2018 14:41
 Operator : JC/SY
 Sample : J4775-07RE
 Misc : 7.09g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 17 16:31:28 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	6.40	168	1298035	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	1845190	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.28	117	1403371	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	584201	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	506249	50.01	ug/l	0.01
Spiked Amount			Recovery	=	100.02%	
35) Dibromofluoromethane	6.31	113	157801	10.95	ug/l	0.01
Spiked Amount			Recovery	=	21.90%	
50) Toluene-d8	9.45	98	1623598	40.64	ug/l	0.01
Spiked Amount			Recovery	=	81.28%	
62) 4-Bromofluorobenzene	12.43	95	546773	35.82	ug/l	0.01
Spiked Amount			Recovery	=	71.64%	

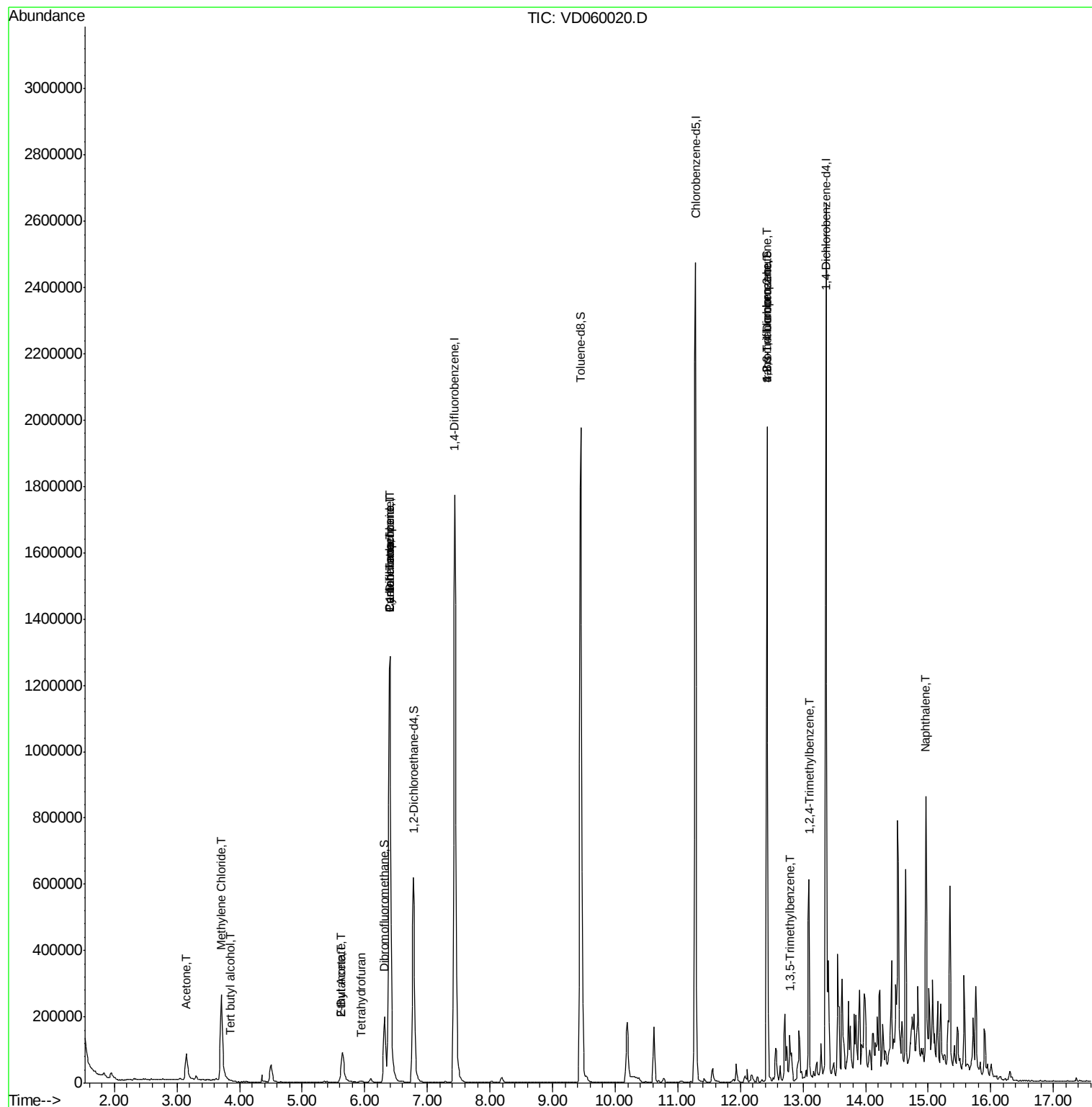
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.85	59	972	1.190	ug/l #	74
16) Acetone	3.15	43	160771	82.263	ug/l	99
20) Methylene Chloride	3.71	84	159213	4.956	ug/l	99
25) 2-Butanone	5.62	43	26796	5.081	ug/l	97
29) Tetrahydrofuran	5.95	42	2873	1.016	ug/l #	56
31) Cyclohexane	6.40	56	24593	1.094	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	91182	4.975	ug/l #	46
37) Ethyl Acetate	5.62	43	26796	2.126	ug/l #	78
38) Carbon Tetrachloride	6.39	117	100967	5.901	ug/l #	15
51) 4-Methyl-2-Pentanone	9.34	43	1890	Below Cal	#	42
59) 2-Hexanone	10.49	43	3220	Below Cal		96
76) 1,2,3-Trichloropropane	12.43	75	208135	23.327	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.79	105	54820	1.867	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.43	75	218940	81.289	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.09	105	270075	8.618	ug/l	99
89) n-Butylbenzene	13.65	91	57532	Below Cal		97
91) 1,2-Dichlorobenzene	13.66	146	661	Below Cal	#	42
95) Naphthalene	14.96	128	429757	20.346	ug/l	99

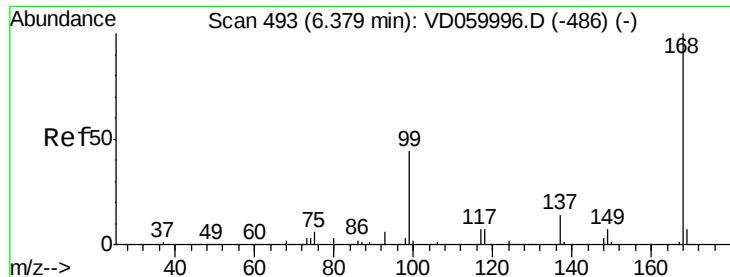
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

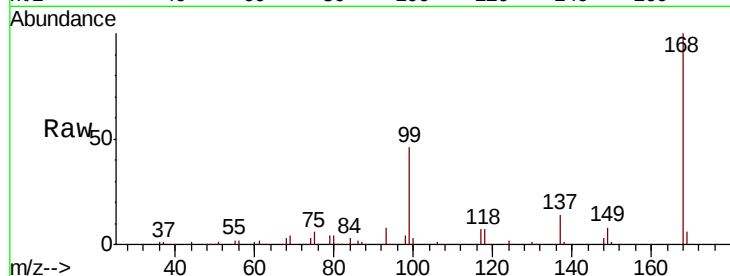
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 1298035

Ion Ratio Lower Upper

168 100

99 45.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

500000

400000

300000

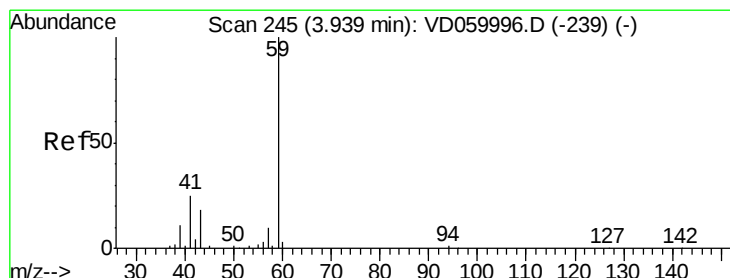
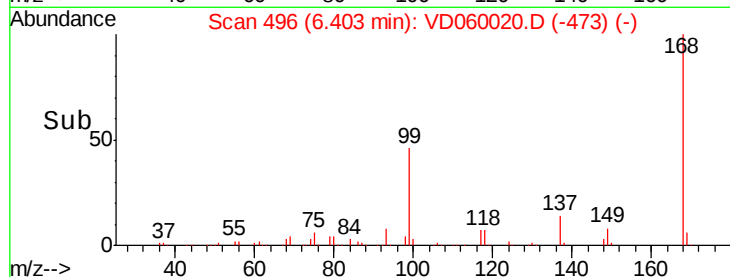
200000

100000

0

Time-->

6.30 6.40 6.50 6.60



#11

Tert butyl alcohol

Concen: 1.190 ug/l

RT: 3.85 min Scan# 237

Delta R.T. -0.08 min

Lab File: VD060020.D

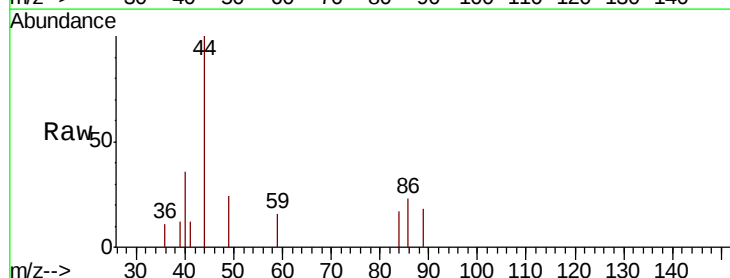
Acq: 17 Sep 2018 14:41

Tgt Ion: 59 Resp: 972

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.85

500

400

300

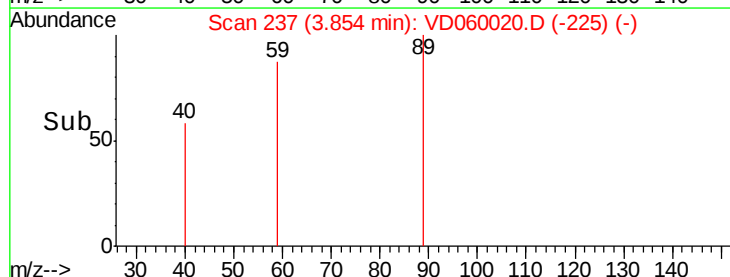
200

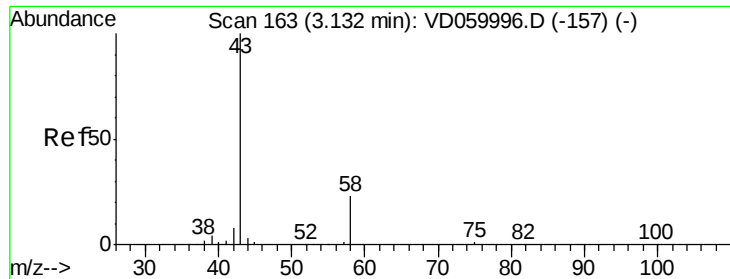
100

0

Time-->

3.80 3.85 3.90





#16

Acetone

Concen: 82.263 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

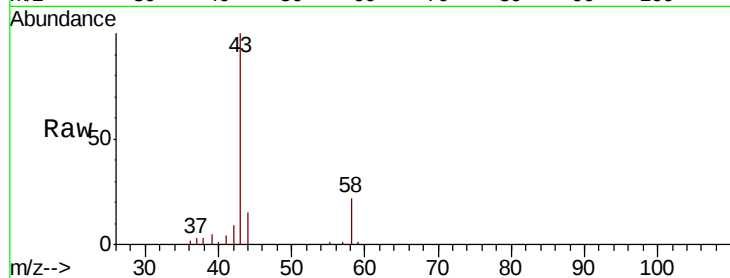
ClientSampleId :

Tot Ion: 43 Resp: 160771

Ion Ratio Lower Upper

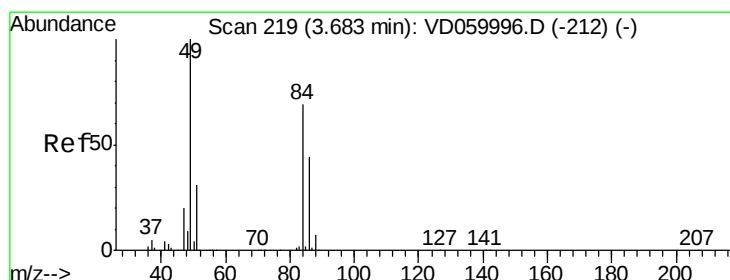
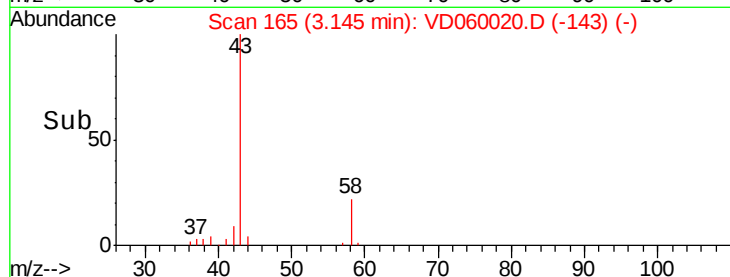
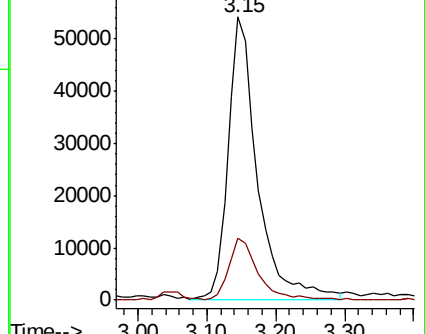
43 100

58 22.1 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.956 ug/l

RT: 3.71 min Scan# 222

Delta R.T. 0.02 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Tgt Ion: 84 Resp: 159213

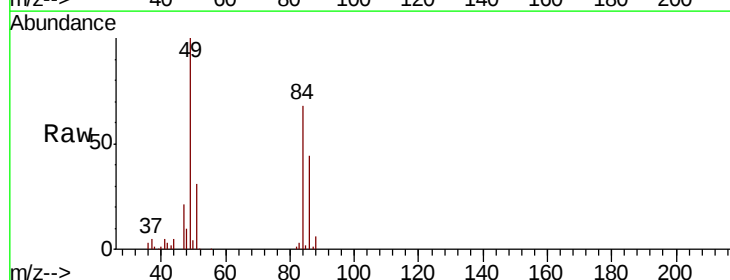
Ion Ratio Lower Upper

84 100

49 147.4 116.6 175.0

51 46.0 35.9 53.9

86 65.5 51.8 77.6

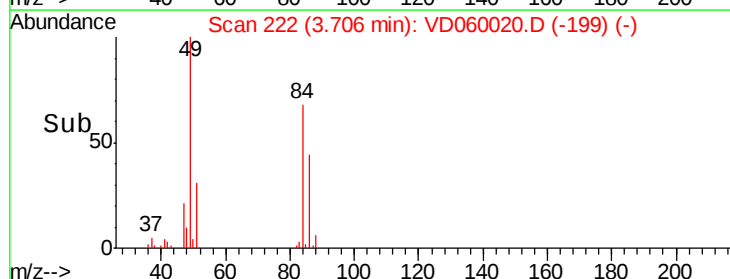
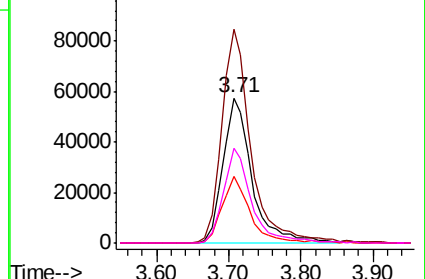


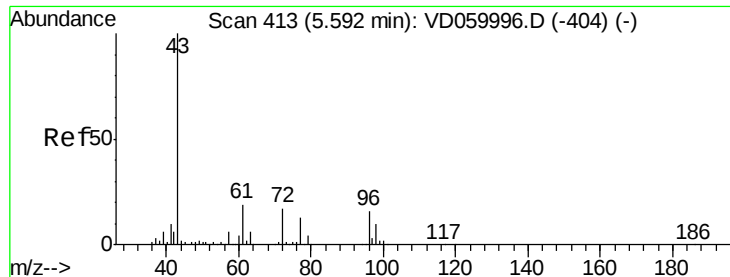
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 5.081 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

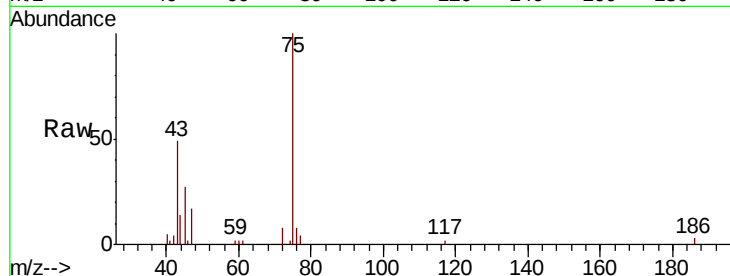
ClientSampleId :

Tot Ion: 43 Resp: 26796

Ion Ratio Lower Upper

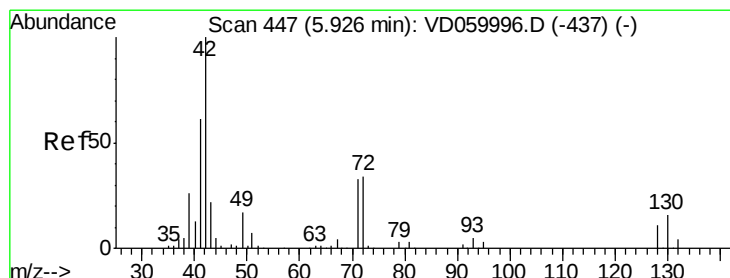
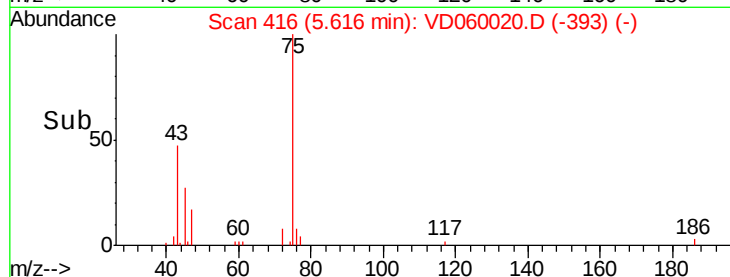
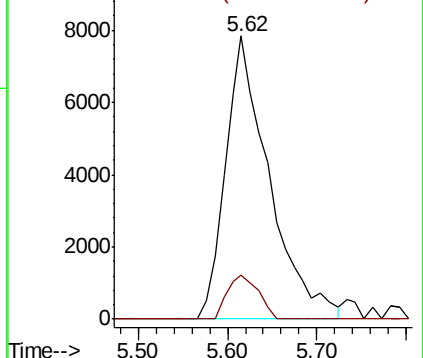
43 100

72 15.6 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.016 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.02 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

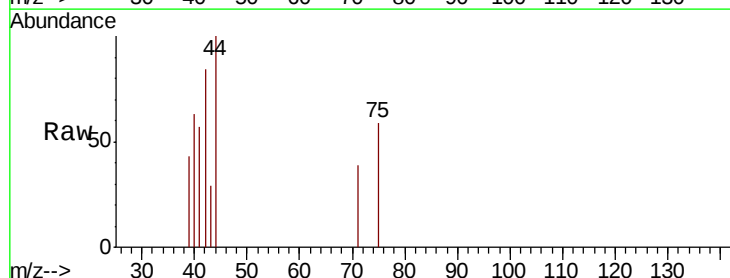
Tgt Ion: 42 Resp: 2873

Ion Ratio Lower Upper

42 100

72 6.9 26.9 40.3#

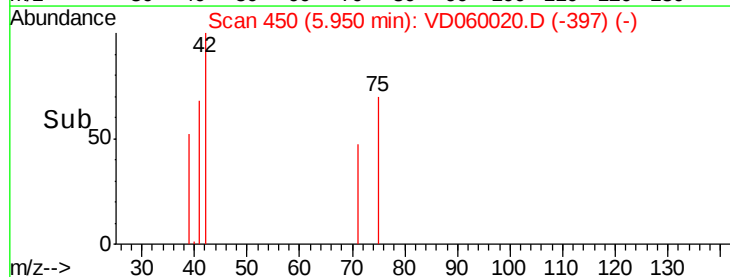
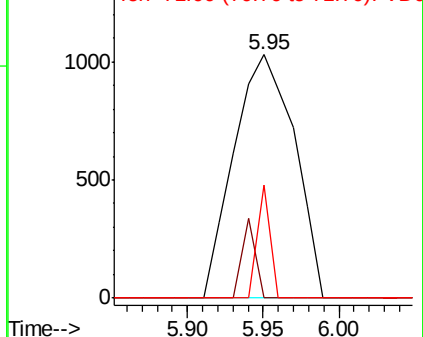
71 9.9 26.2 39.4#

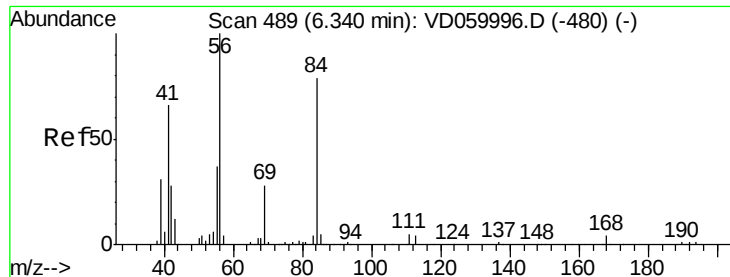


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

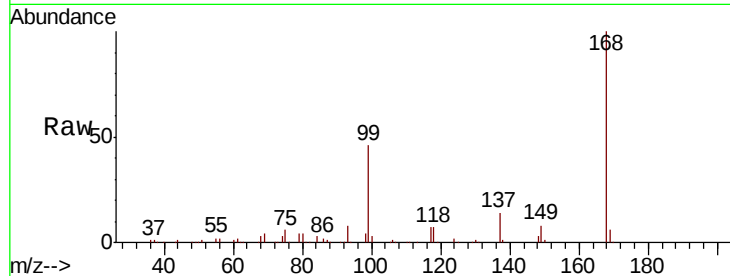




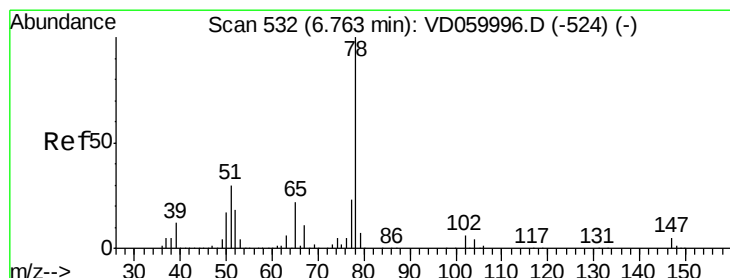
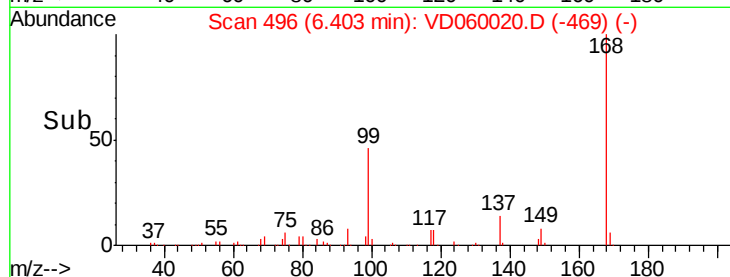
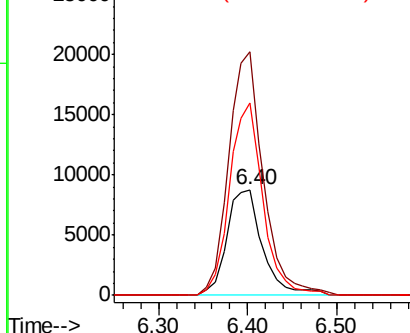
#31
Cyclohexane
Concen: 1.094 ug/l
RT: 6.40 min Scan# 496
Delta R.T. 0.06 min
Lab File: VD060020.D
Acq: 17 Sep 2018 14:41

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 24593
Ion Ratio Lower Upper
56 100
69 230.7 22.7 34.1#
84 182.8 64.0 96.0#

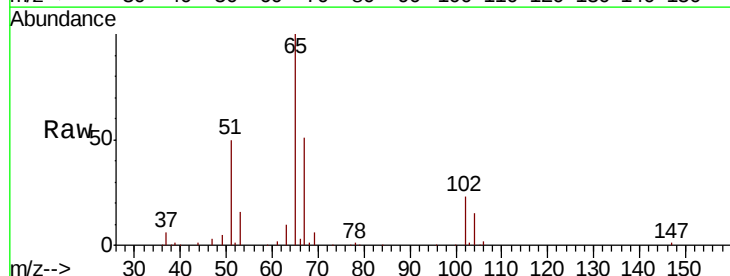


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

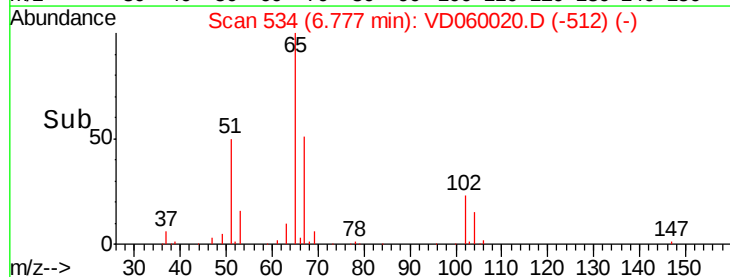
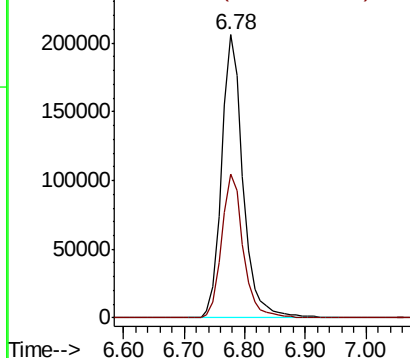


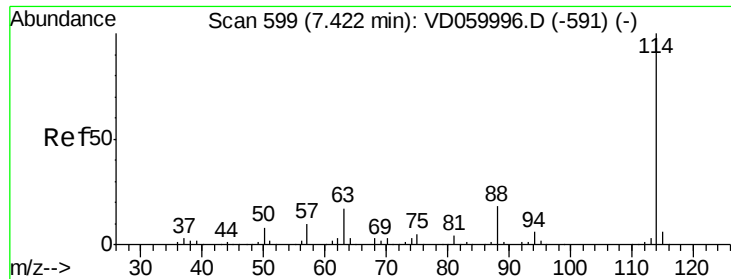
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD060020.D
Acq: 17 Sep 2018 14:41

Tgt Ion: 65 Resp: 506249
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.8



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

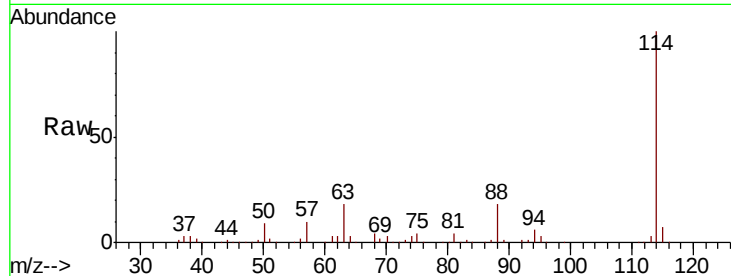




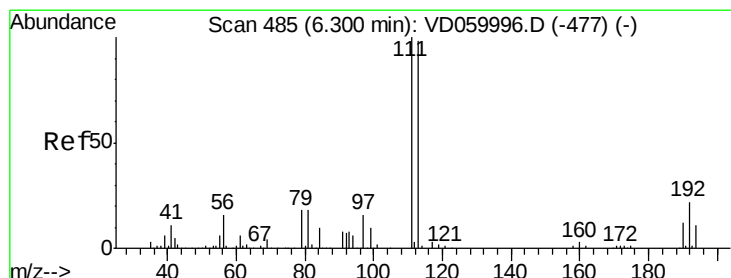
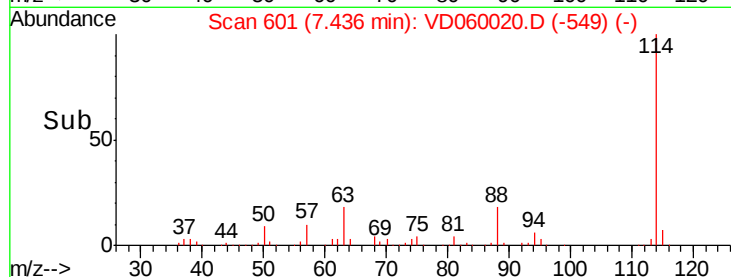
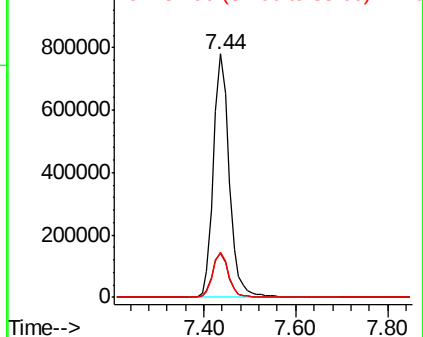
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.01 min
 Lab File: VD060020.D
 Acq: 17 Sep 2018 14:41

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion:114 Resp: 1845190
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 34.4
 88 18.3 0.0 35.8

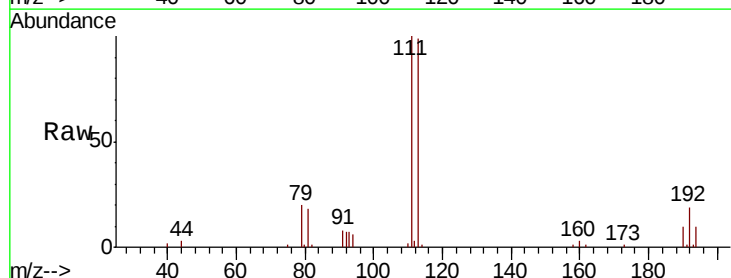


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

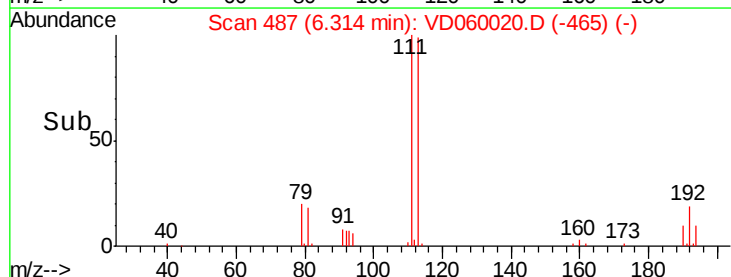
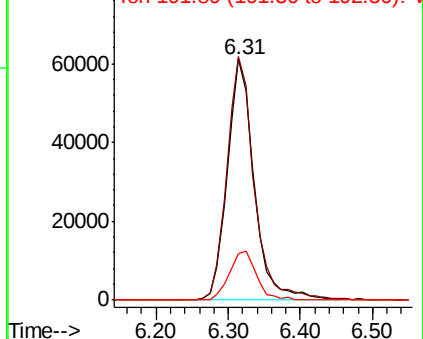


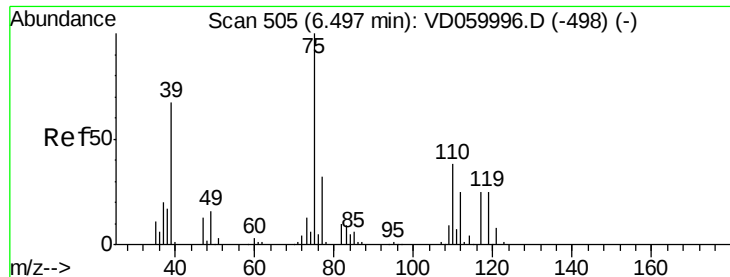
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 487
 Delta R.T. 0.01 min
 Lab File: VD060020.D
 Acq: 17 Sep 2018 14:41

Tgt Ion:113 Resp: 157801
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.3 121.9
 192 19.2 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

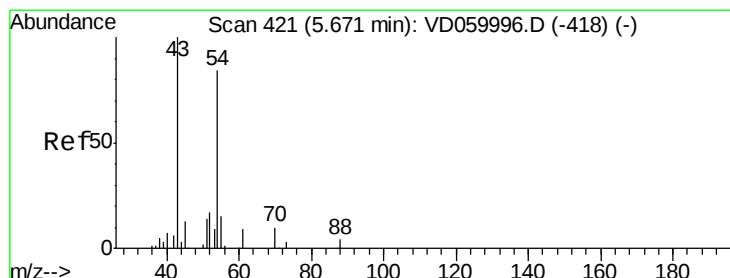
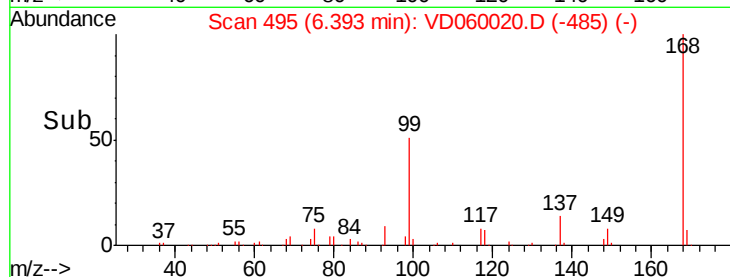
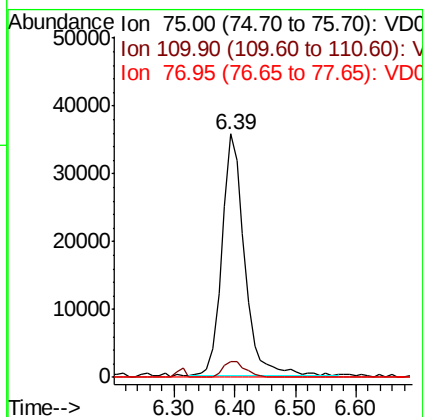
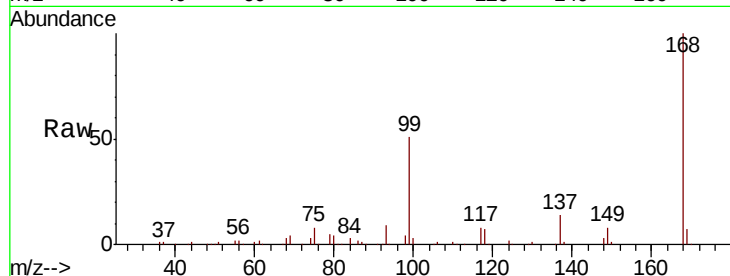




#36
 1,1-Dichloropropene
 Concen: 4.975 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.10 min
 Lab File: VD060020.D
 Acq: 17 Sep 2018 14:41

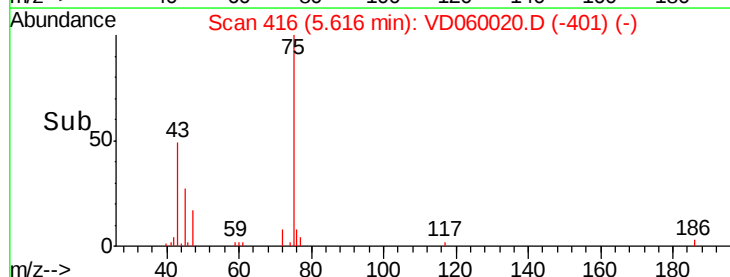
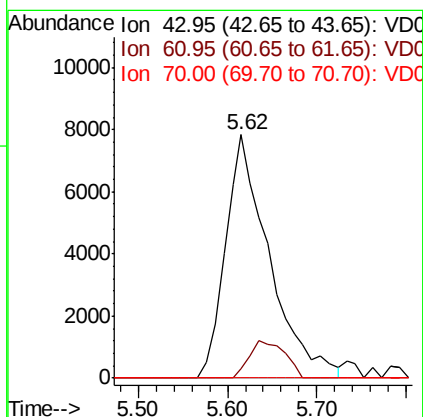
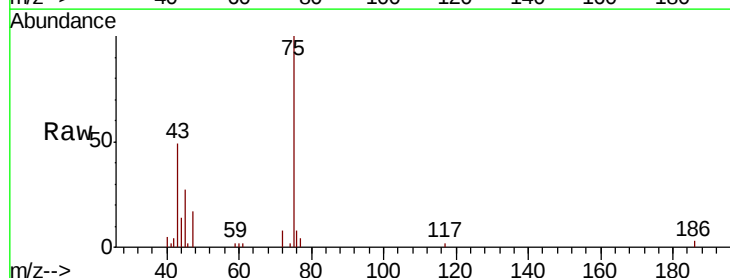
Instrument :
 MSVOA_D
 ClientSampleID :

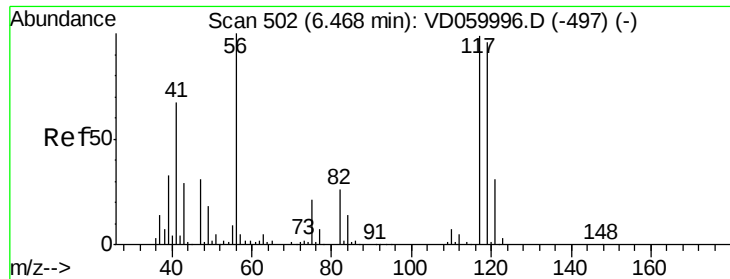
Tot Ion: 75 Resp: 91182
 Ion Ratio Lower Upper
 75 100
 110 6.4 18.9 56.9#
 77 0.0 25.3 37.9#



#37
 Ethyl Acetate
 Concen: 2.126 ug/l
 RT: 5.62 min Scan# 416
 Delta R.T. -0.06 min
 Lab File: VD060020.D
 Acq: 17 Sep 2018 14:41

Tgt Ion: 43 Resp: 26796
 Ion Ratio Lower Upper
 43 100
 61 3.9 10.2 15.2#
 70 0.0 6.1 9.1#

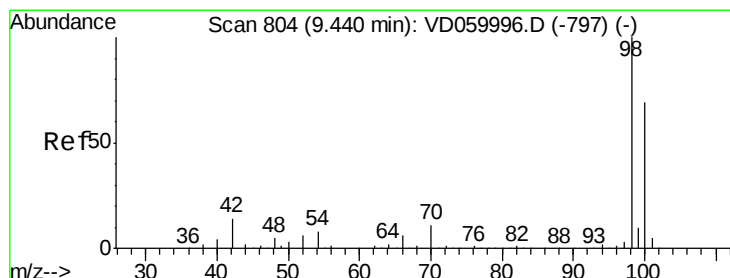
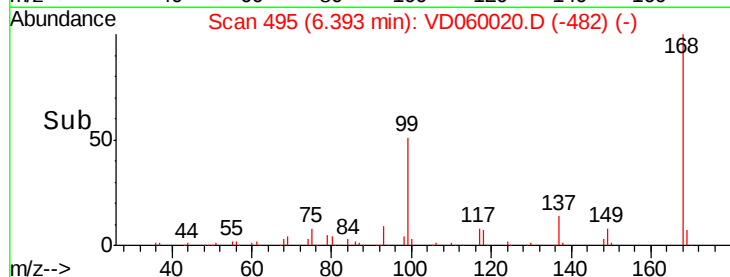
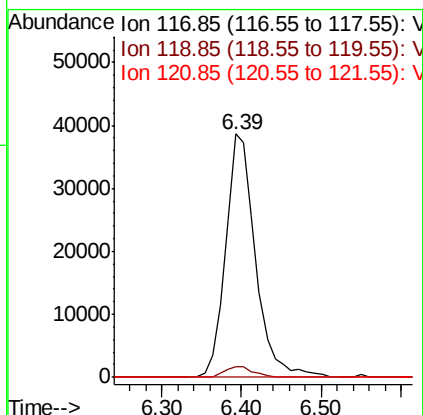
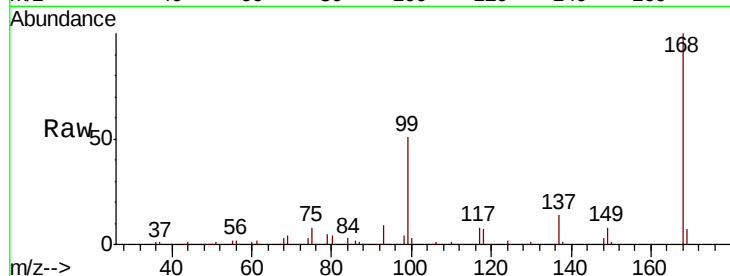




#38
Carbon Tetrachloride
Concen: 5.901 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.07 min
Lab File: VD060020.D
Acq: 17 Sep 2018 14:41

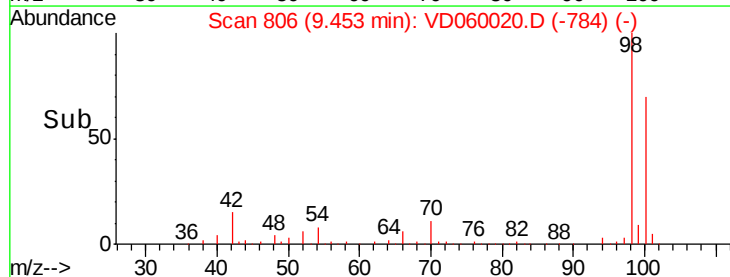
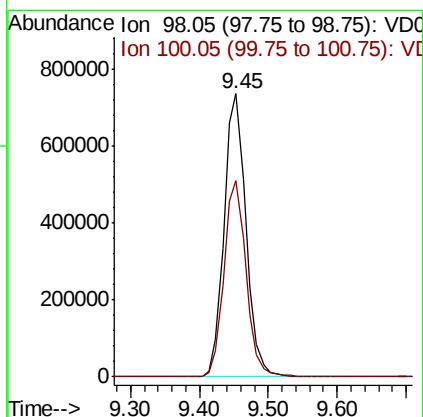
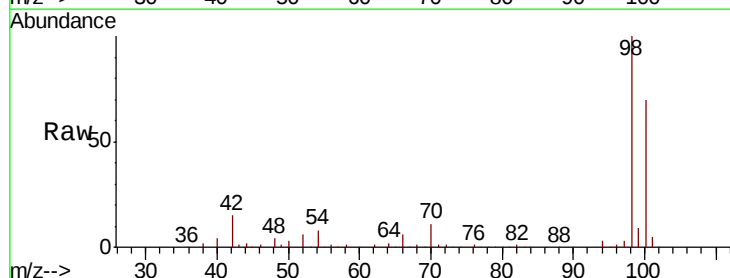
Instrument :
MSVOA_D
ClientSampleId :

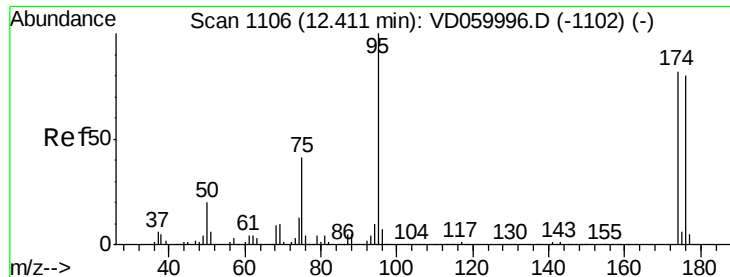
Tot Ion:117 Resp: 100967
Ion Ratio Lower Upper
117 100
119 4.5 76.7 115.1#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. 0.01 min
Lab File: VD060020.D
Acq: 17 Sep 2018 14:41

Tgt Ion: 98 Resp: 1623598
Ion Ratio Lower Upper
98 100
100 69.6 55.8 83.6





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

ClientSampleId :

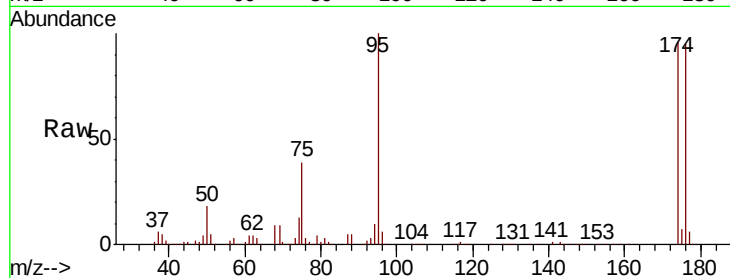
Tot Ion: 95 Resp: 546773

Ion Ratio Lower Upper

95 100

174 96.0 0.0 165.0

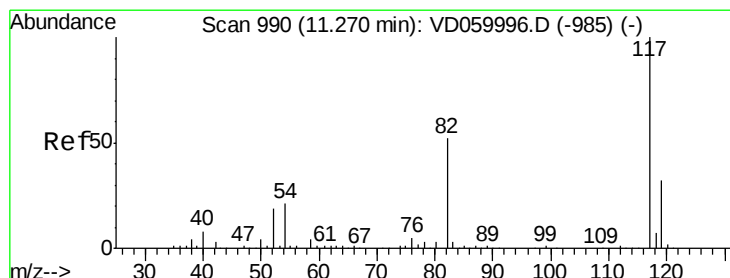
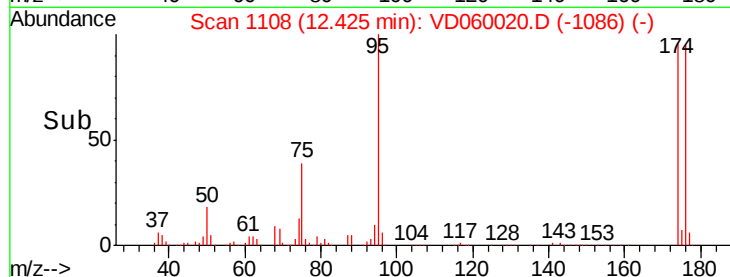
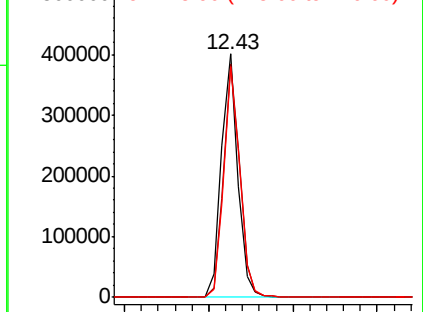
176 94.6 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 992

Delta R.T. 0.01 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

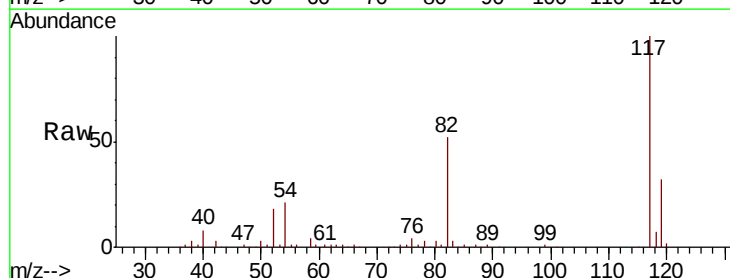
Tgt Ion: 117 Resp: 1403371

Ion Ratio Lower Upper

117 100

82 51.6 41.7 62.5

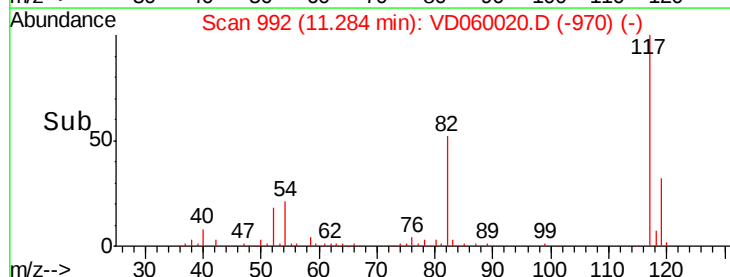
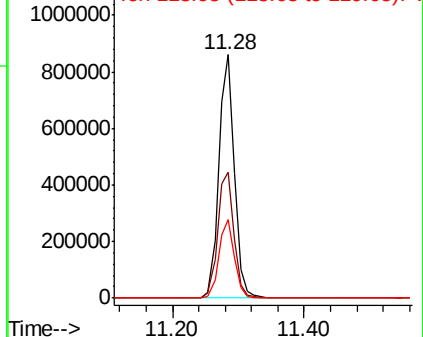
119 32.0 26.0 39.0

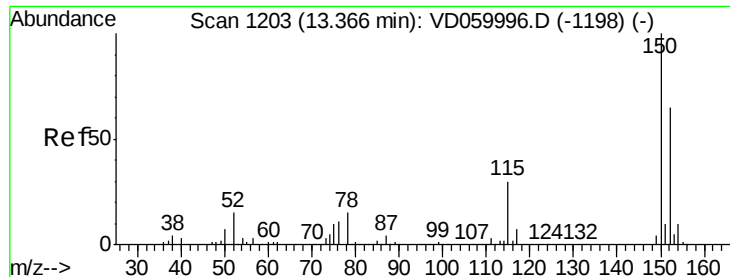


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

ClientSampleId :

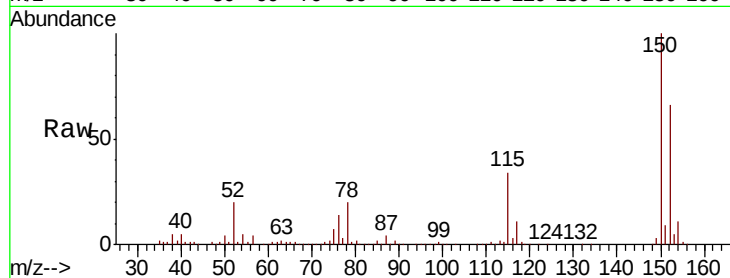
Tot Ion:152 Resp: 584201

Ion Ratio Lower Upper

152 100

115 52.5 24.6 73.8

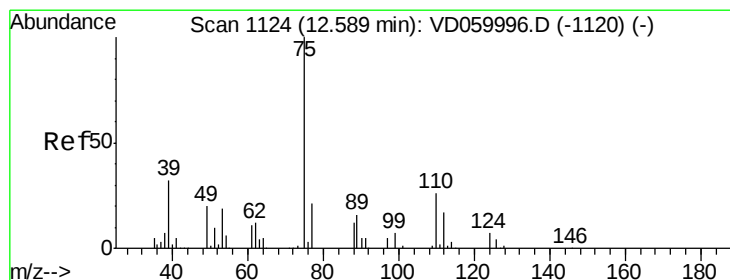
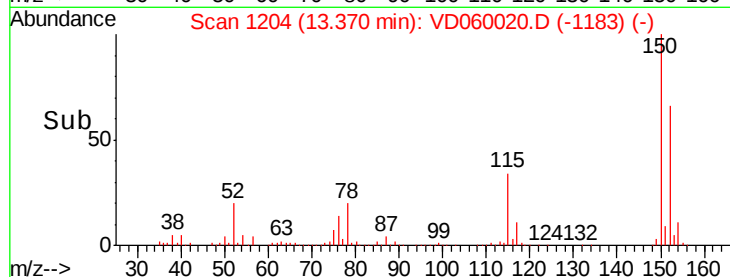
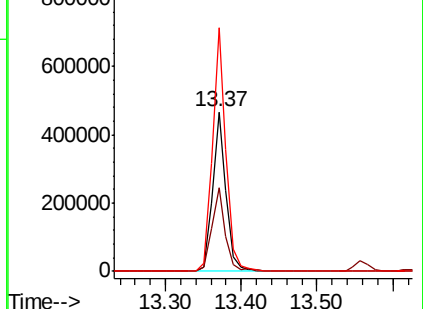
150 152.6 0.0 313.4



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



#76

1,2,3-Trichloropropane

Concen: 23.327 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060020.D

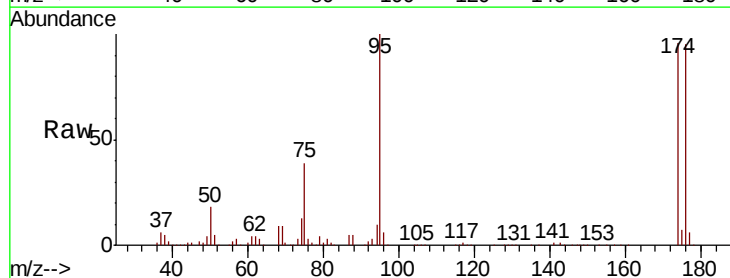
Acq: 17 Sep 2018 14:41

Tgt Ion: 75 Resp: 208135

Ion Ratio Lower Upper

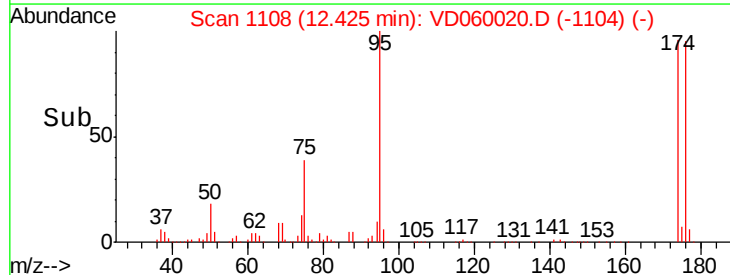
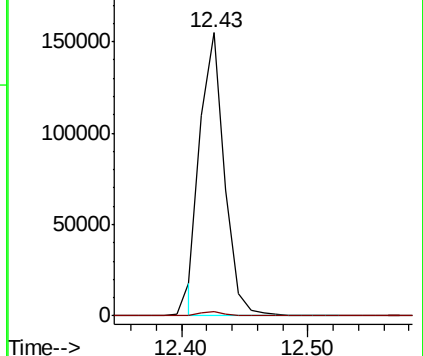
75 100

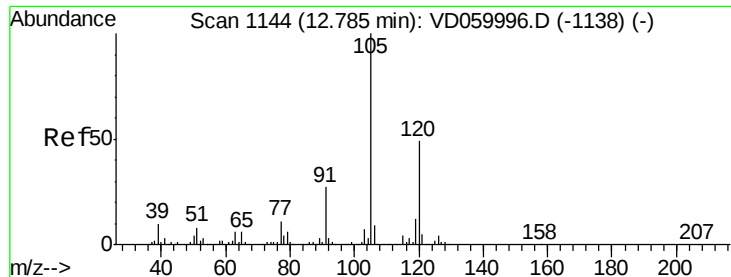
77 1.7 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.867 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

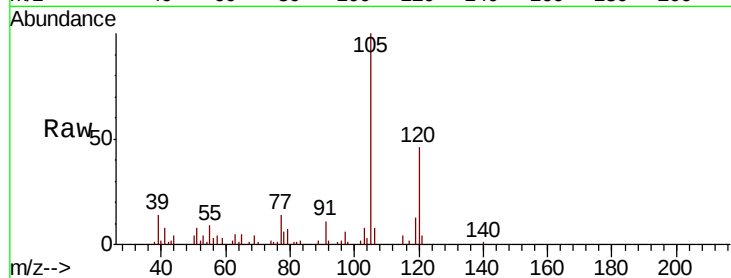
ClientSampled :

Tot Ion:105 Resp: 54820

Ion Ratio Lower Upper

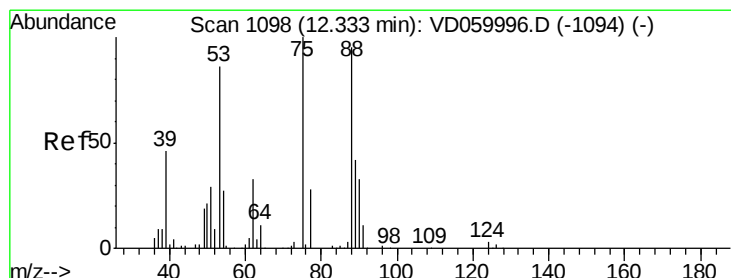
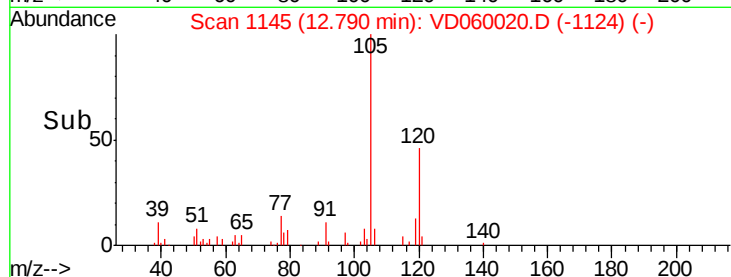
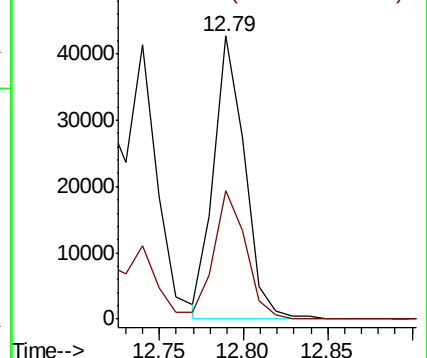
105 100

120 45.5 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 81.289 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

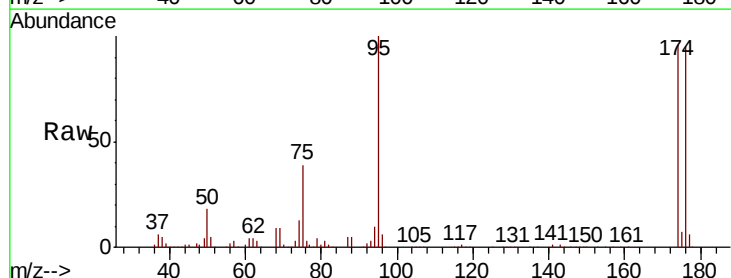
Tgt Ion: 75 Resp: 218940

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

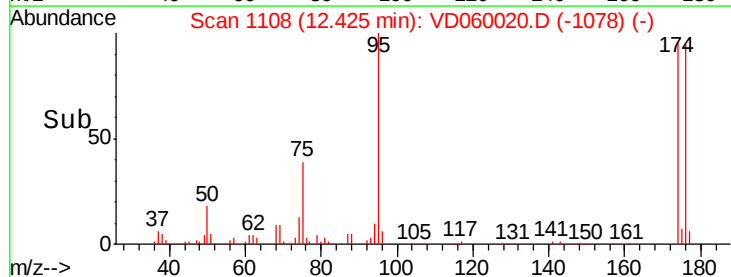
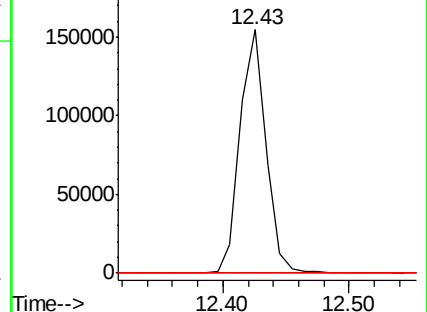
89 0.0 33.8 50.6#

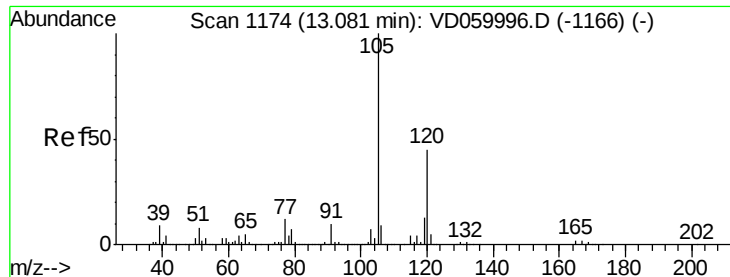


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 8.618 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

Instrument :

MSVOA_D

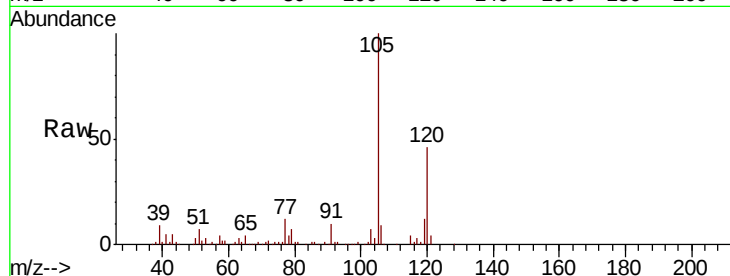
ClientSampled :

Tot Ion:105 Resp: 270075

Ion Ratio Lower Upper

105 100

120 45.6 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.09

200000

150000

100000

50000

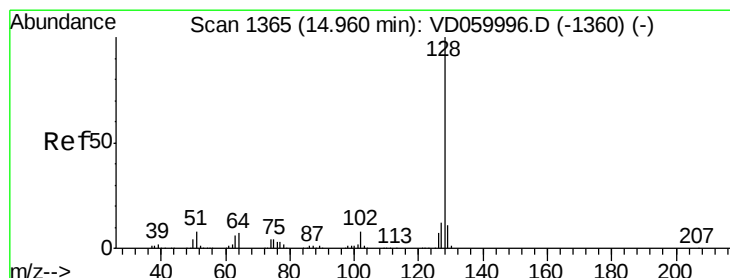
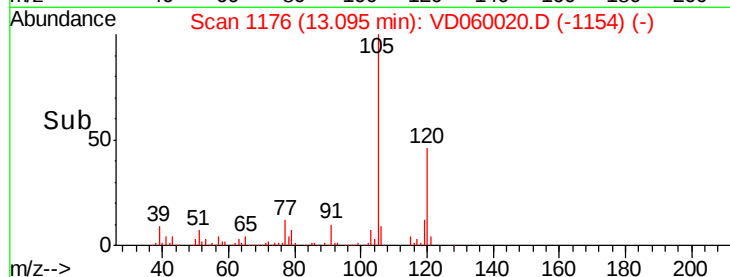
0

Time-->

13.00

13.10

13.20



#95

Naphthalene

Concen: 20.346 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. 0.00 min

Lab File: VD060020.D

Acq: 17 Sep 2018 14:41

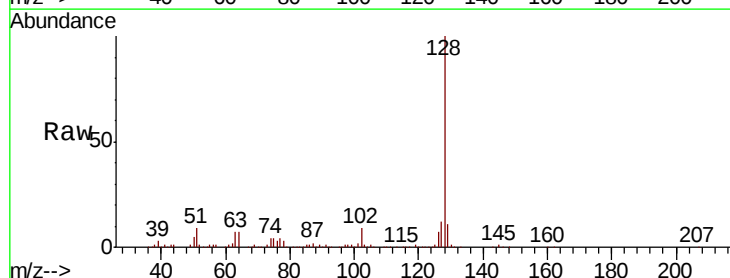
Tgt Ion:128 Resp: 429757

Ion Ratio Lower Upper

128 100

127 12.4 9.7 14.5

129 11.0 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

500000

400000

300000

200000

100000

0

Time-->

14.90

14.95

15.00

