

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121118\
 Data File : VD060531.D
 Acq On : 11 Dec 2018 13:10
 Operator : VA/AP
 Sample : J6195-07
 Misc : 5.92g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-121018-B

Quant Time: Dec 12 03:12:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1640683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2340018	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1850783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	820266	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	490296	42.16	ug/l	0.00
Spiked Amount			Recovery	=	84.32%	
35) Dibromofluoromethane	6.33	113	665817	38.74	ug/l	0.00
Spiked Amount			Recovery	=	77.48%	
50) Toluene-d8	9.45	98	1788638	35.96	ug/l	0.00
Spiked Amount			Recovery	=	71.92%	
62) 4-Bromofluorobenzene	12.43	95	634154	35.63	ug/l	0.00
Spiked Amount			Recovery	=	71.26%	

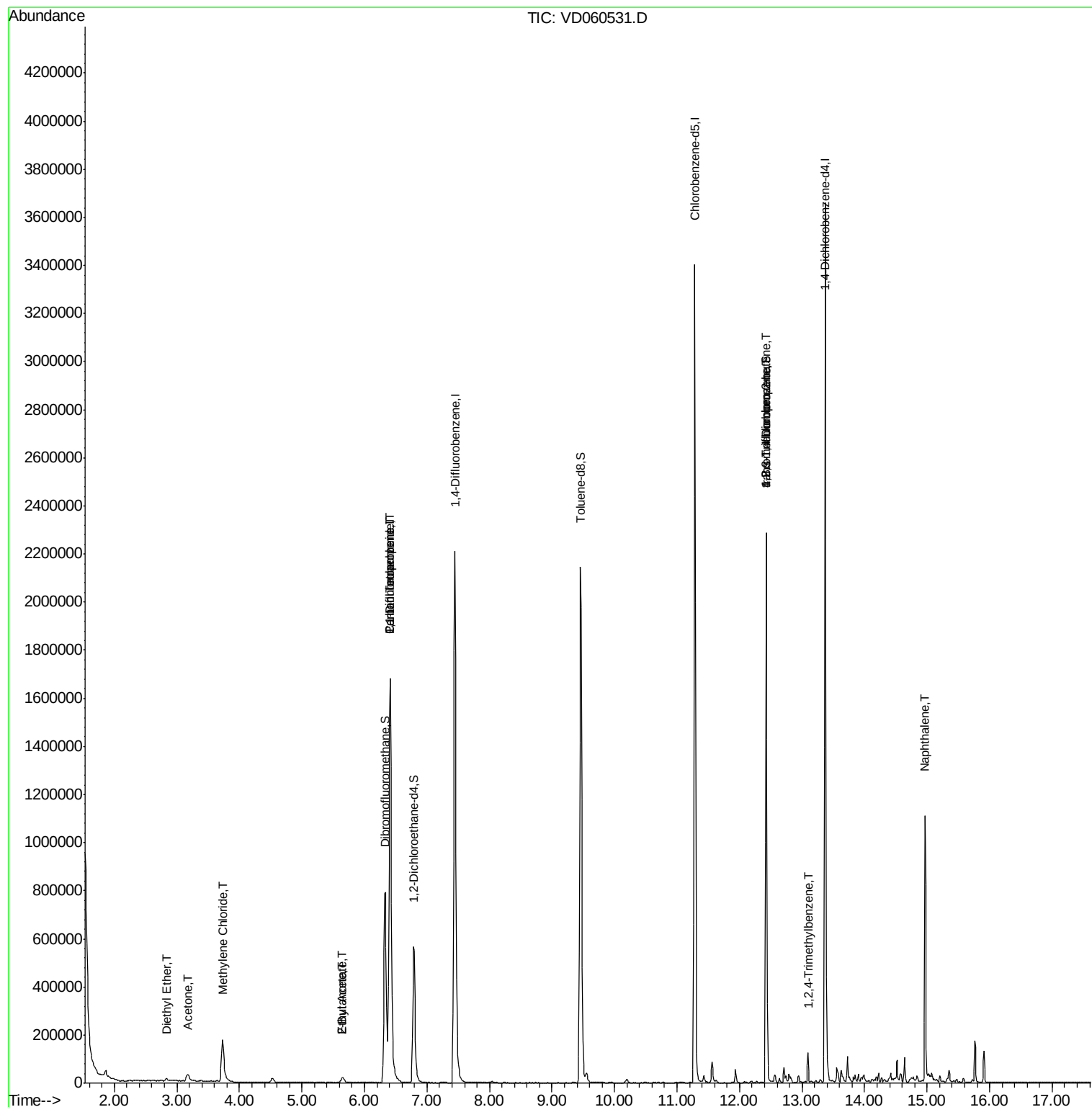
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	569	Below Cal	#	41
8) Diethyl Ether	2.84	74	4230	1.576	ug/l	68
16) Acetone	3.17	43	70905	38.038	ug/l	91
20) Methylene Chloride	3.73	84	124337	3.066	ug/l	96
25) 2-Butanone	5.63	43	16862	4.598	ug/l #	89
31) Cyclohexane	6.41	56	32019	Below Cal	#	1
36) 1,1-Dichloropropene	6.41	75	116868	5.109	ug/l #	48
37) Ethyl Acetate	5.63	43	16862	1.700	ug/l #	68
38) Carbon Tetrachloride	6.41	117	129327	6.298	ug/l #	15
76) 1,2,3-Trichloropropane	12.43	75	192663	20.730	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.43	75	258887	99.873	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.09	105	52633	1.146	ug/l	100
95) Naphthalene	14.96	128	685422	32.647	ug/l	99

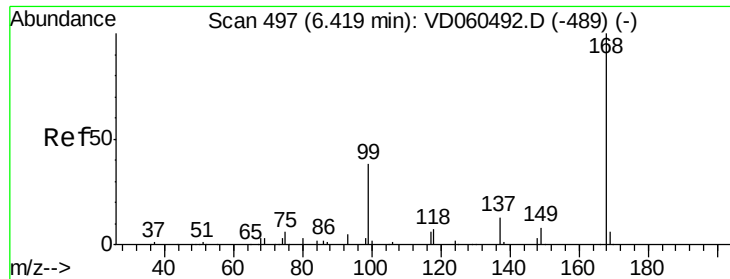
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

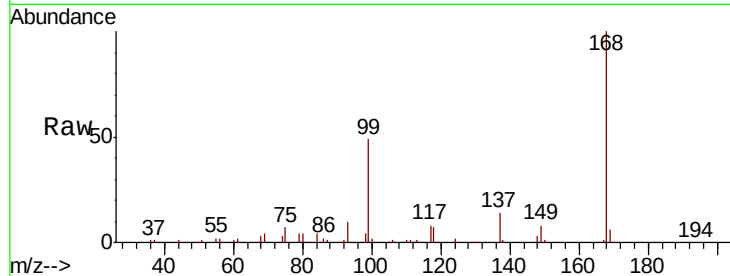
OR-02-121018-B

Tot Ion:168 Resp: 1640683

Ion Ratio Lower Upper

168 100

99 48.8 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

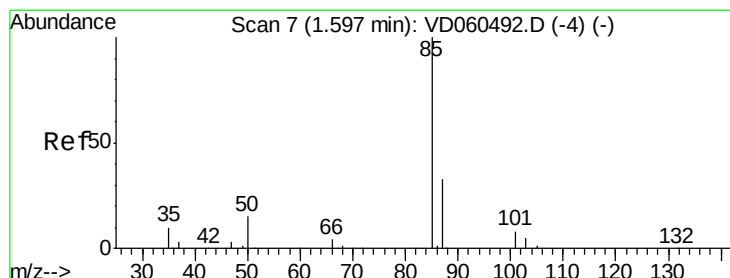
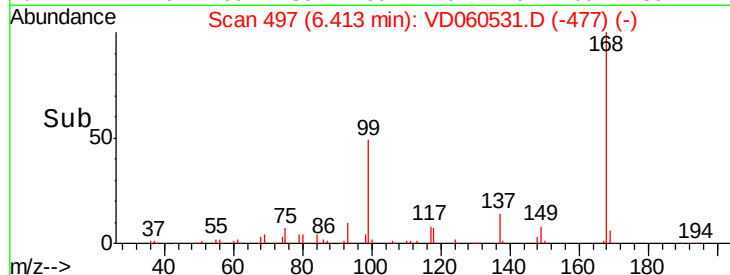
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.00 min

Lab File: VD060531.D

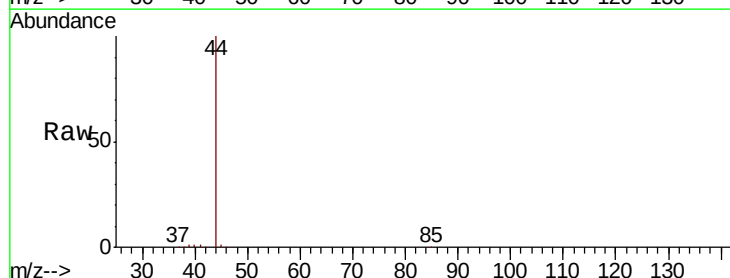
Acq: 11 Dec 2018 13:10

Tgt Ion: 85 Resp: 569

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

600

500

400

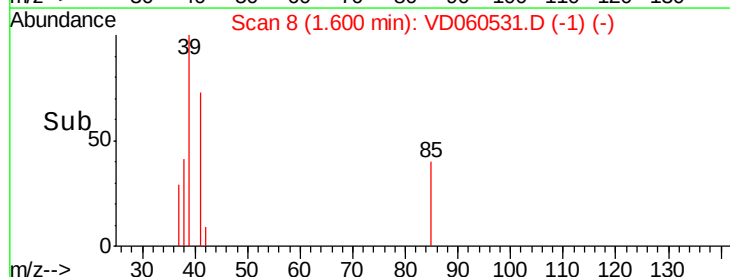
300

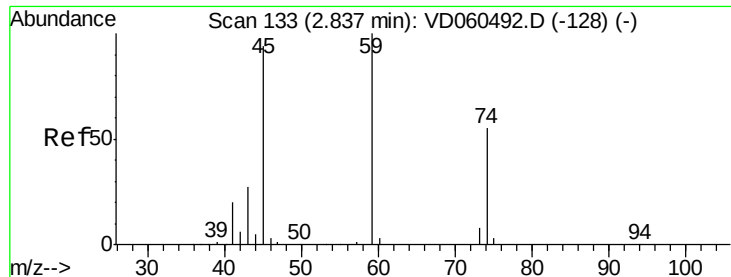
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.576 ug/l

RT: 2.84 min Scan# 134

Delta R.T. 0.00 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

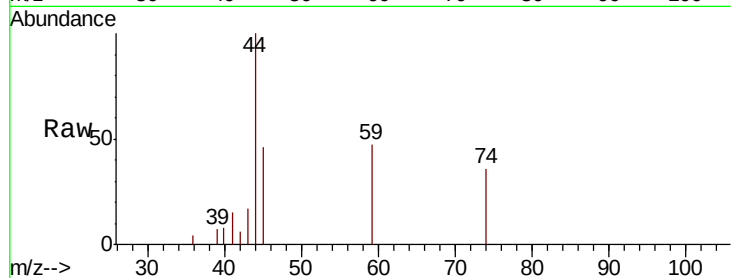
OR-02-121018-B

Tot Ion: 74 Resp: 4230

Ion Ratio Lower Upper

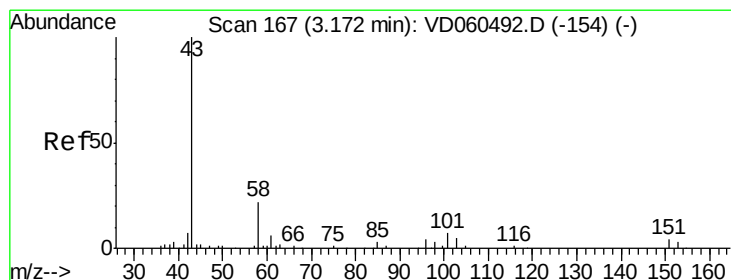
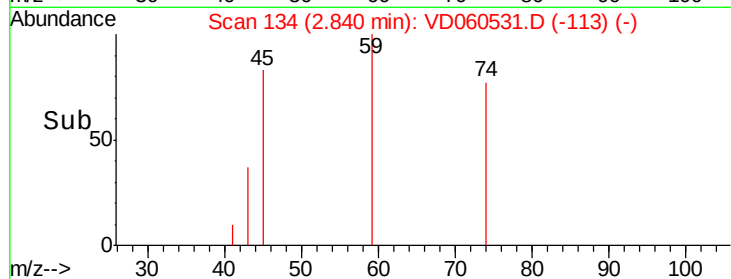
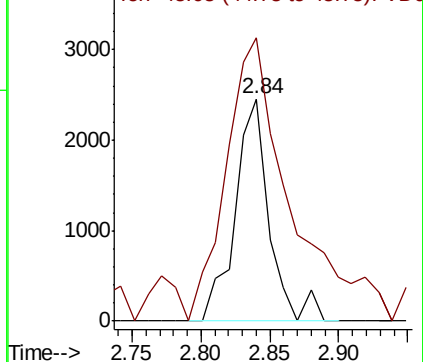
74 100

45 127.3 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 38.038 ug/l

RT: 3.17 min Scan# 168

Delta R.T. 0.00 min

Lab File: VD060531.D

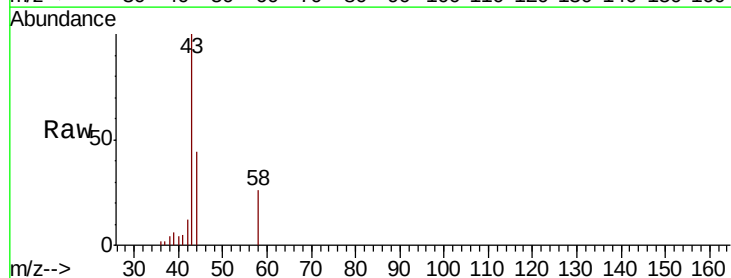
Acq: 11 Dec 2018 13:10

Tgt Ion: 43 Resp: 70905

Ion Ratio Lower Upper

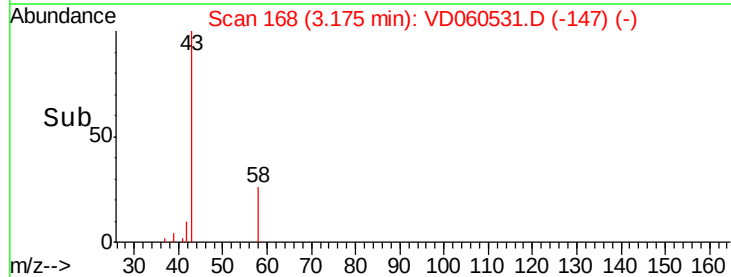
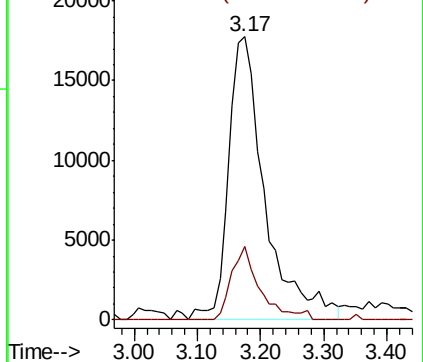
43 100

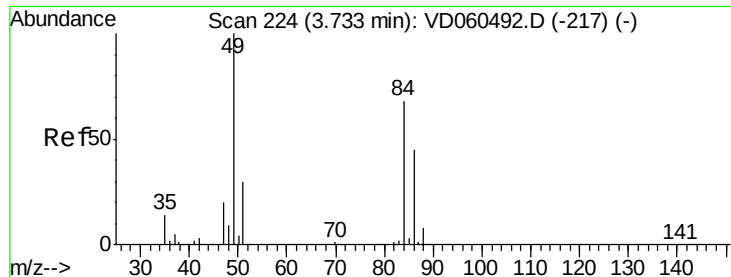
58 25.9 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

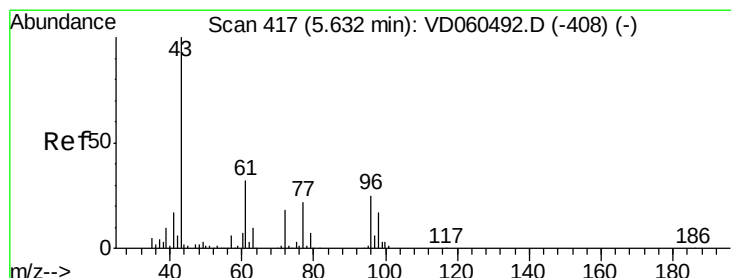
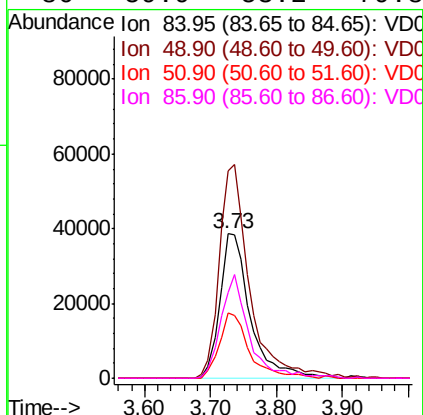
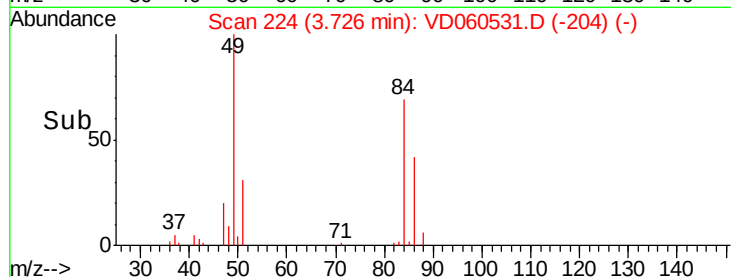
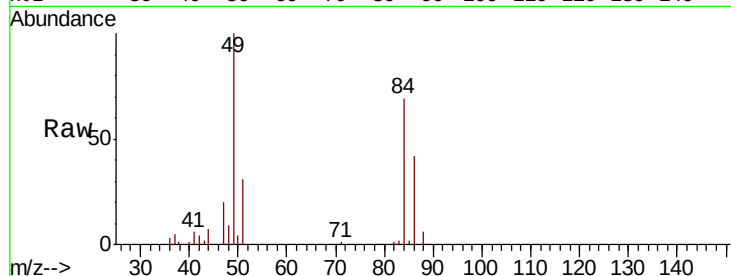




#20
Methvlene Chloride
Concen: 3.066 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

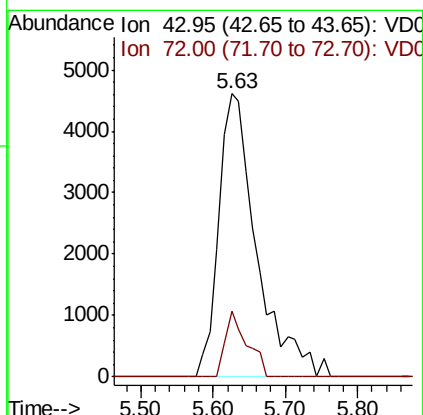
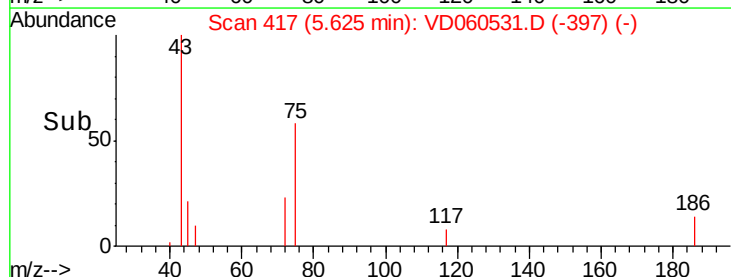
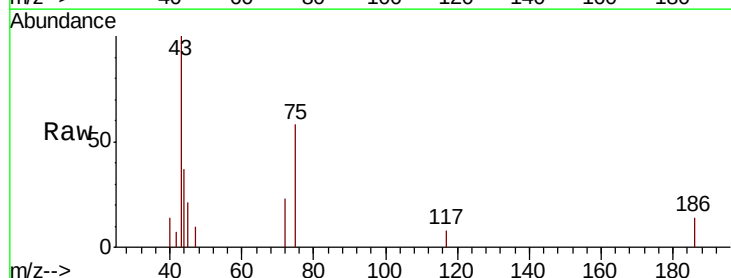
Instrument :
MSVOA_D
ClientSampleId :
OR-02-121018-B

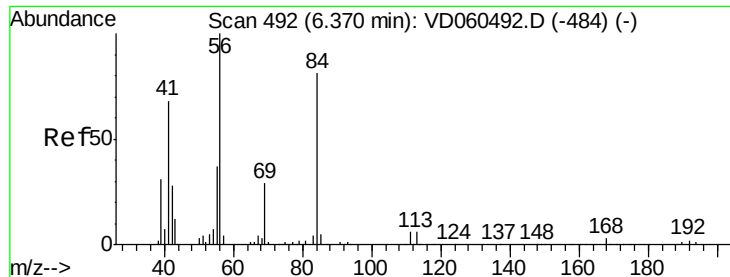
Tot Ion:	84	Resp:	124337
Ion	Ratio	Lower	Upper
84	100		
49	144.2	117.2	175.8
51	45.4	35.3	52.9
86	59.9	53.2	79.8



#25
2-Butanone
Concen: 4.598 ug/l
RT: 5.63 min Scan# 417
Delta R.T. -0.01 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

Tgt Ion:	43	Resp:	16862
Ion	Ratio	Lower	Upper
43	100		
72	23.1	14.6	21.8#

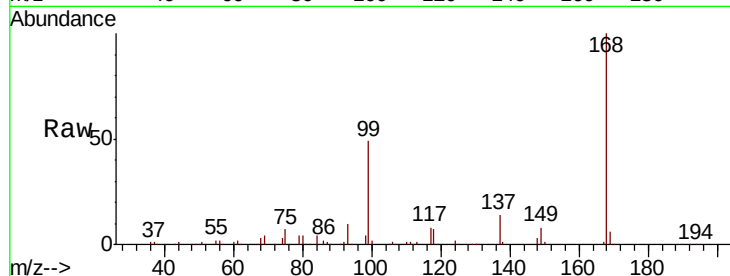




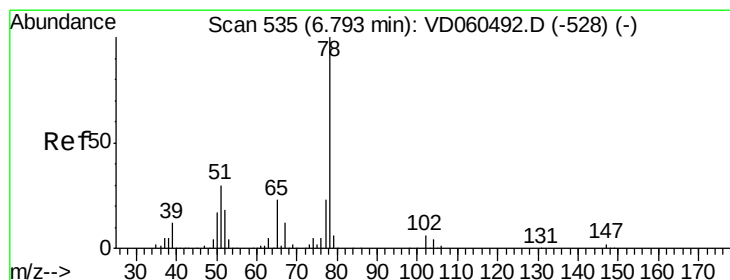
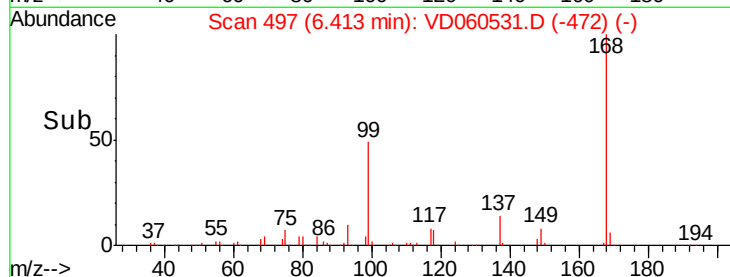
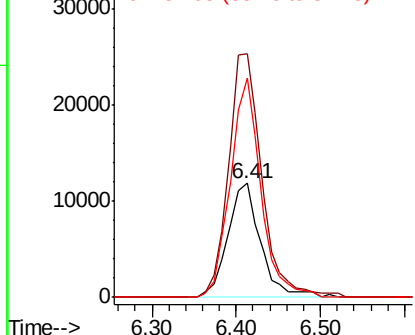
#31
Cyclohexane
Concen: Below Cal
RT: 6.41 min Scan# 497
Delta R.T. 0.04 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

Instrument :
MSVOA_D
ClientSampleId :
OR-02-121018-B

Tot Ion: 56 Resp: 32019
Ion Ratio Lower Upper
56 100
69 214.0 22.8 34.2#
84 192.4 65.1 97.7#

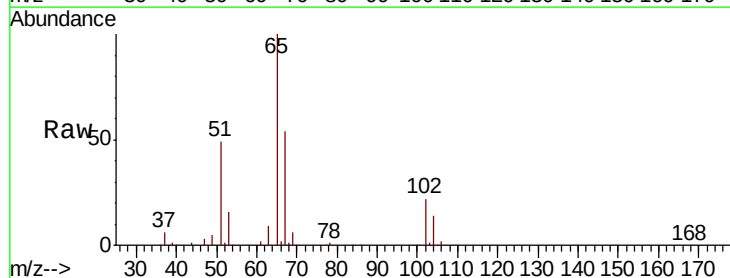


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

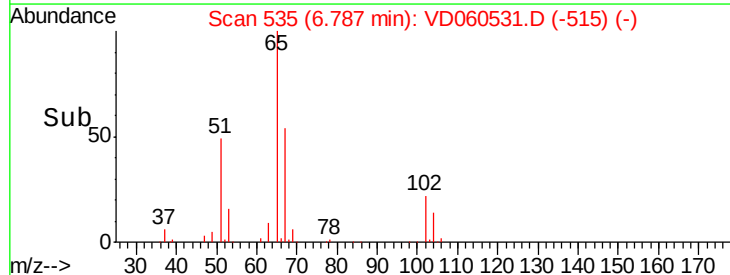
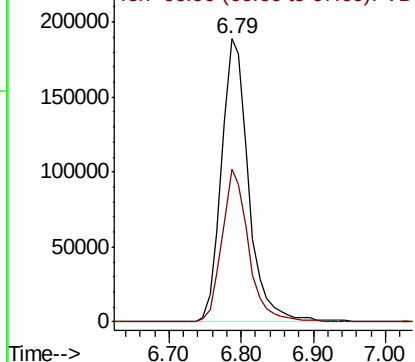


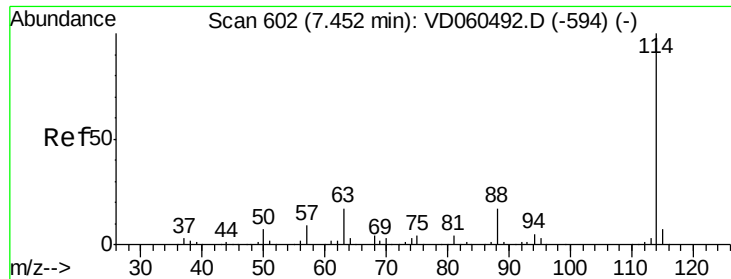
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.79 min Scan# 535
Delta R.T. -0.01 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

Tgt Ion: 65 Resp: 490296
Ion Ratio Lower Upper
65 100
67 54.0 0.0 106.8



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

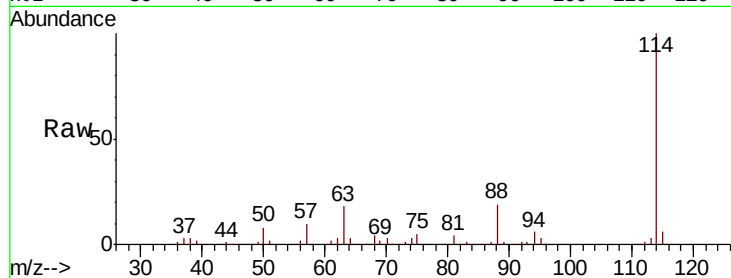




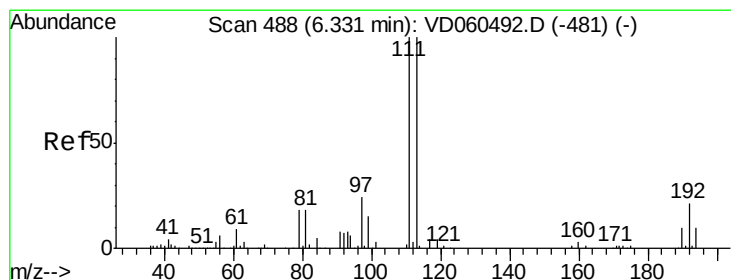
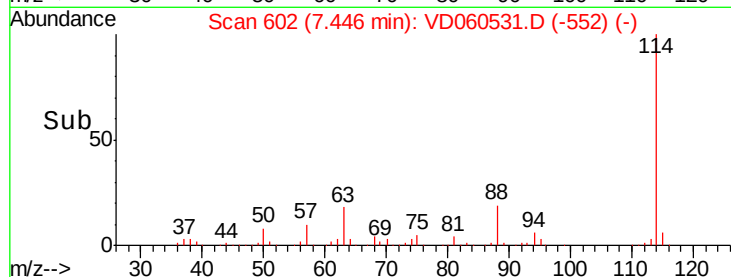
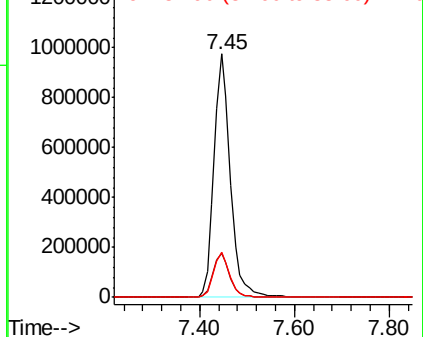
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.45 min Scan# 602
Delta R.T. -0.01 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

Instrument :
MSVOA_D
ClientSampleId :
OR-02-121018-B

Tot Ion:114 Resp: 2340018
Ion Ratio Lower Upper
114 100
63 18.0 0.0 34.2
88 18.6 0.0 35.0

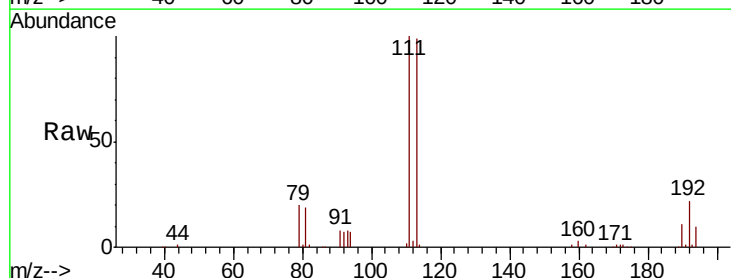


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

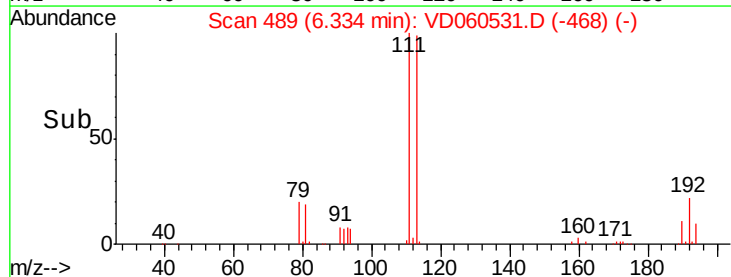
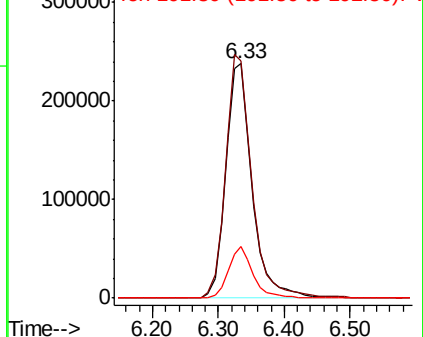


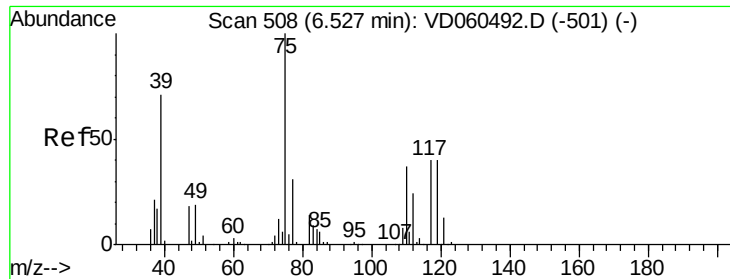
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 488
Delta R.T. 0.00 min
Lab File: VD060531.D
Acq: 11 Dec 2018 13:10

Tgt Ion:113 Resp: 665817
Ion Ratio Lower Upper
113 100
111 101.2 80.2 120.4
192 21.9 16.6 24.8



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

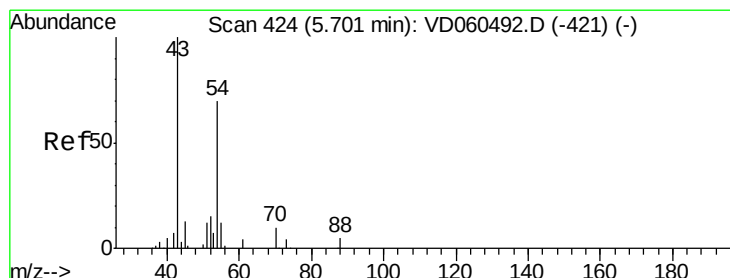
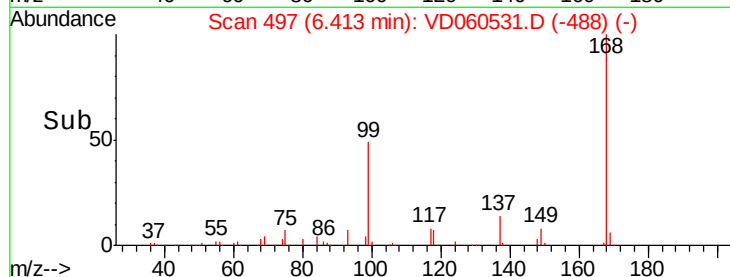
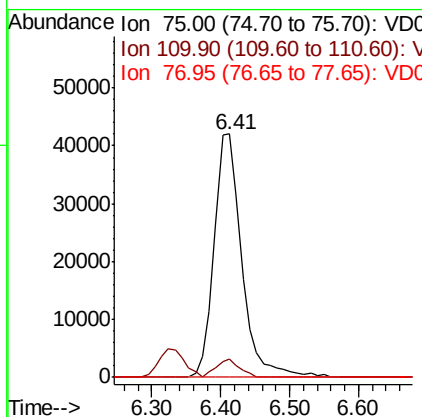
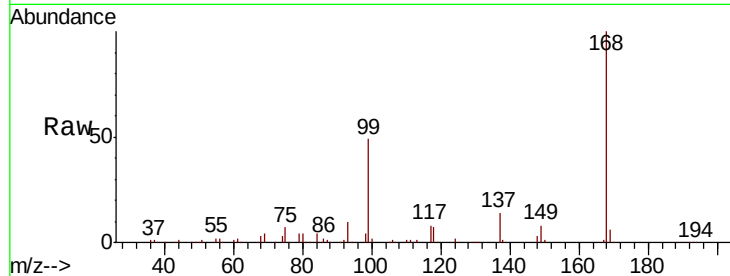




#36
 1,1-Dichloropropene
 Concen: 5.109 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.11 min
 Lab File: VD060531.D
 Acq: 11 Dec 2018 13:10

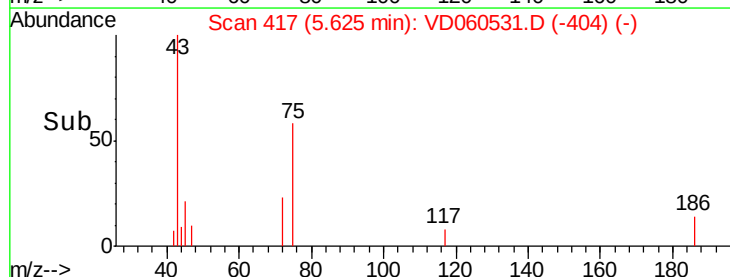
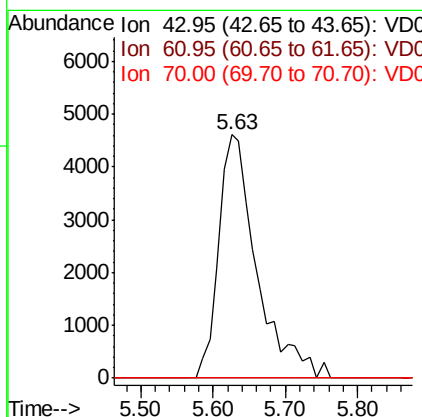
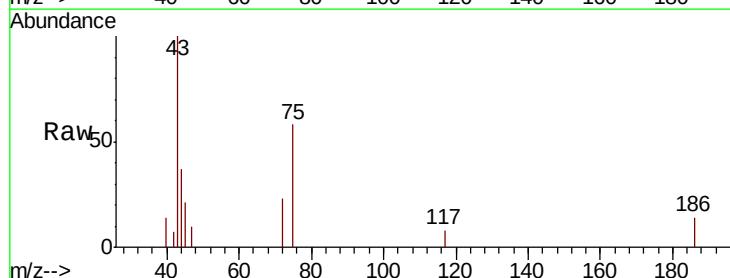
Instrument :
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 ClientSampleId :
 OR-02-121018-B

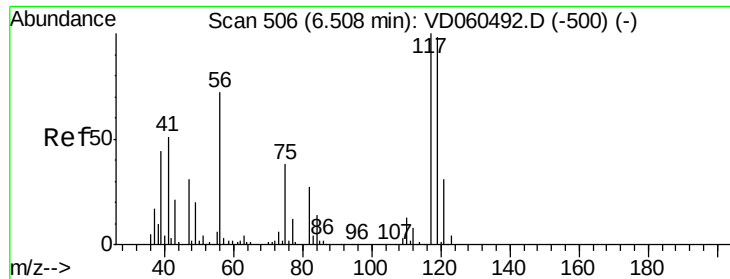
Tot Ion: 75 Resp: 116868
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.3 54.8#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 1.700 ug/l
 RT: 5.63 min Scan# 417
 Delta R.T. -0.08 min
 Lab File: VD060531.D
 Acq: 11 Dec 2018 13:10

Tgt Ion: 43 Resp: 16862
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.4 18.6#
 70 0.0 5.4 8.0#





#38

Carbon Tetrachloride

Concen: 6.298 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.10 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

OR-02-121018-B

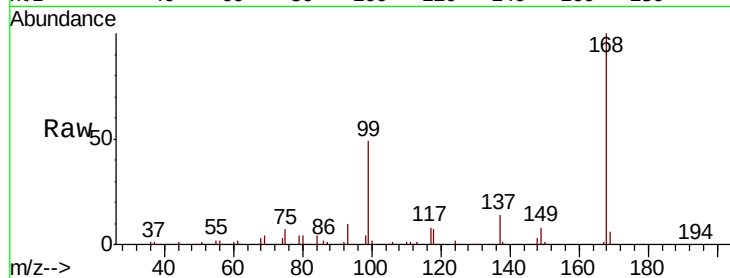
Tot Ion:117 Resp: 129327

Ion Ratio Lower Upper

117 100

119 4.5 76.8 115.2#

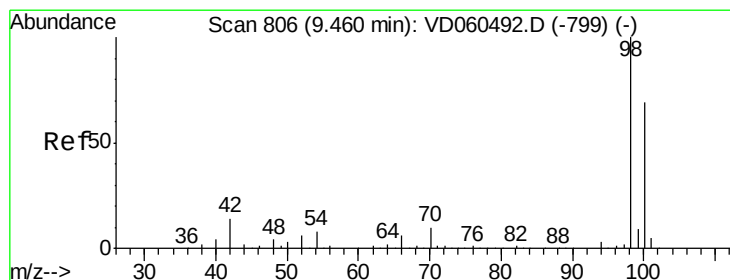
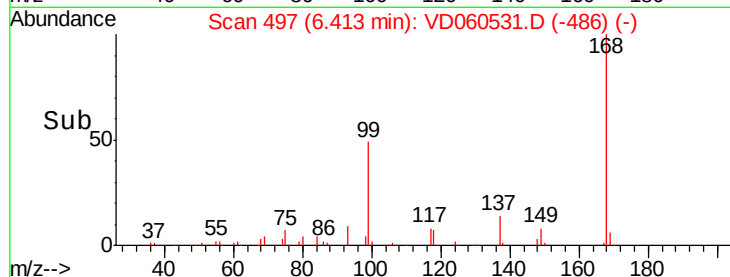
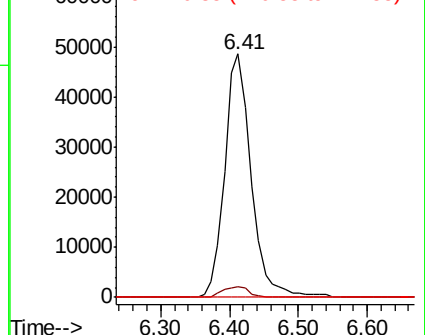
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.45 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD060531.D

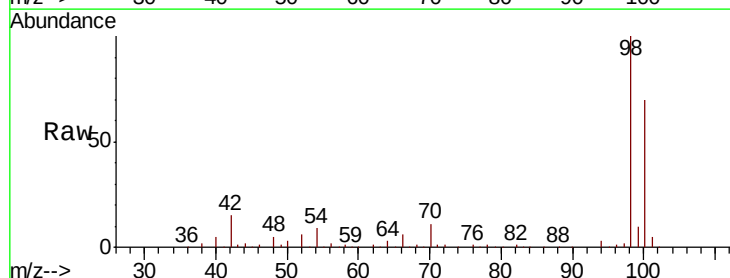
Acq: 11 Dec 2018 13:10

Tgt Ion: 98 Resp: 1788638

Ion Ratio Lower Upper

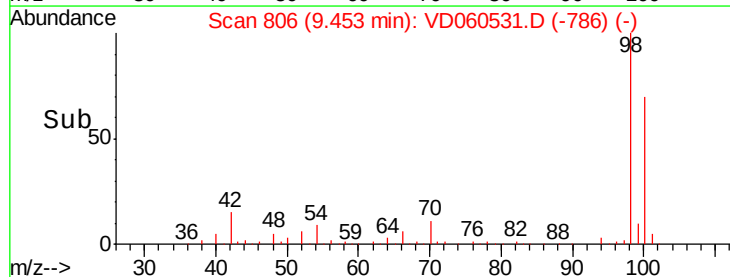
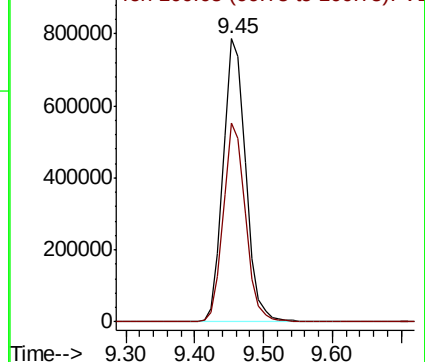
98 100

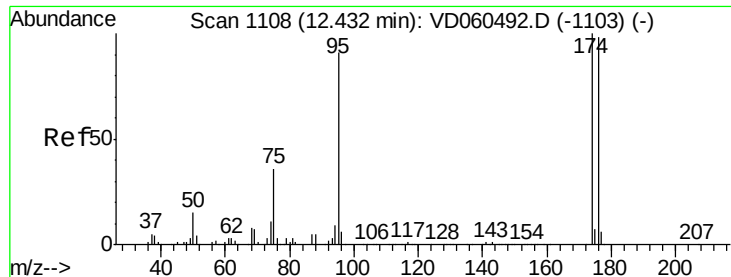
100 70.3 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

OR-02-121018-B

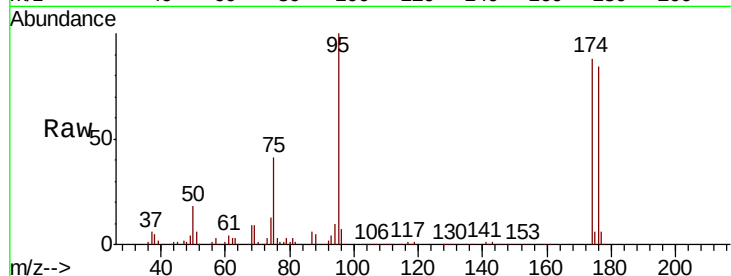
Tot Ion: 95 Resp: 634154

Ion Ratio Lower Upper

95 100

174 88.3 0.0 219.4

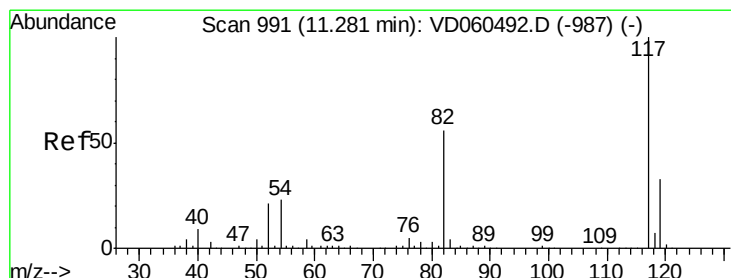
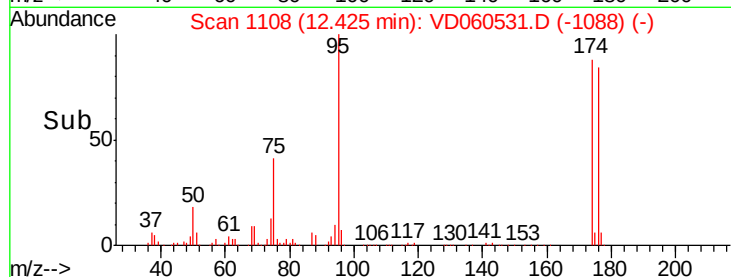
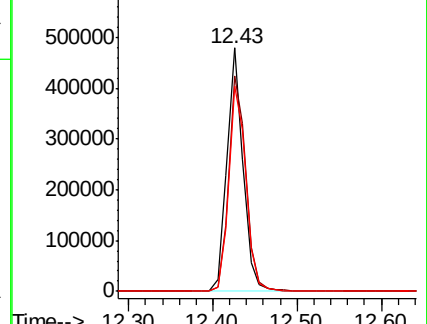
176 84.2 0.0 214.6



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. 0.00 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

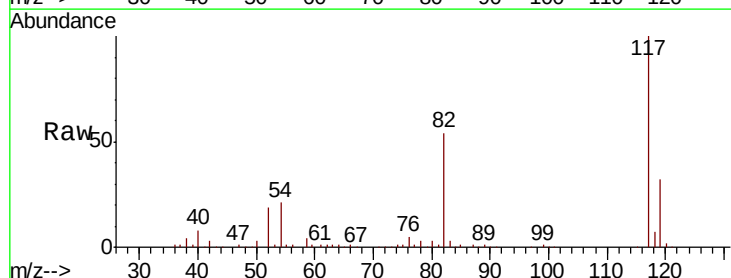
Tgt Ion: 117 Resp: 1850783

Ion Ratio Lower Upper

117 100

82 54.2 45.2 67.8

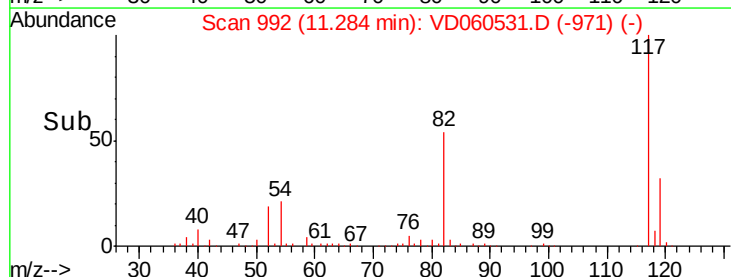
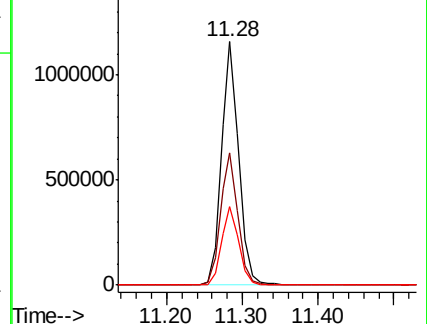
119 32.5 26.1 39.1

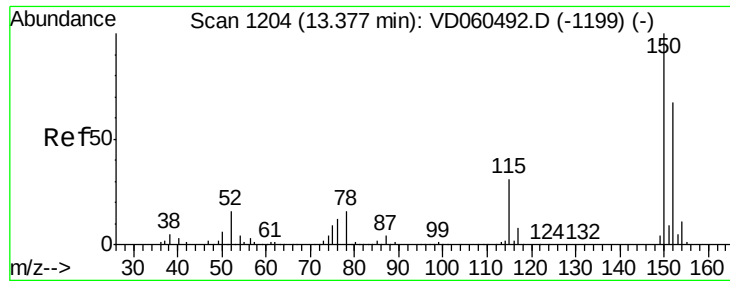


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.01 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

OR-02-121018-B

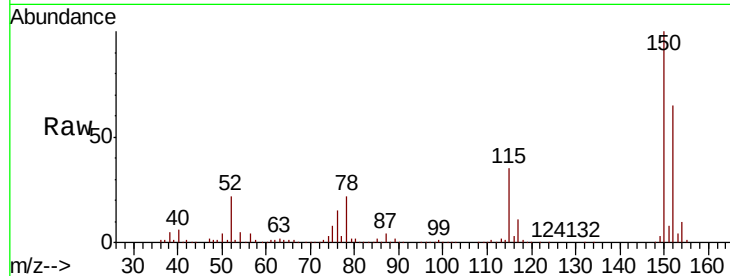
Tot Ion:152 Resp: 820266

Ion Ratio Lower Upper

152 100

115 54.9 24.6 74.0

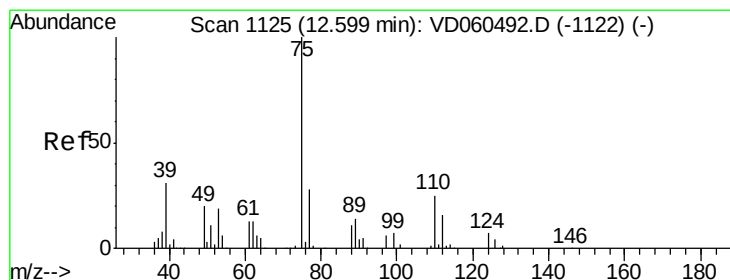
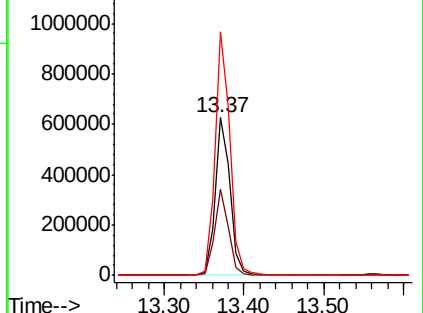
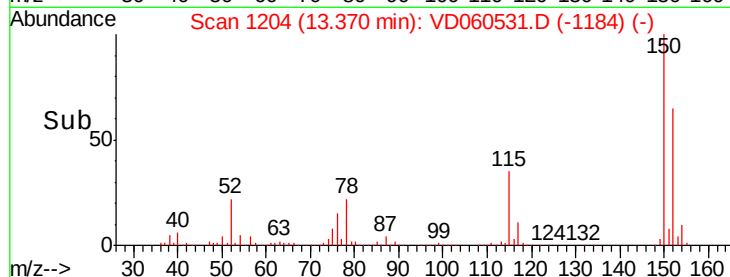
150 154.6 0.0 309.0



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: 20.730 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.17 min

Lab File: VD060531.D

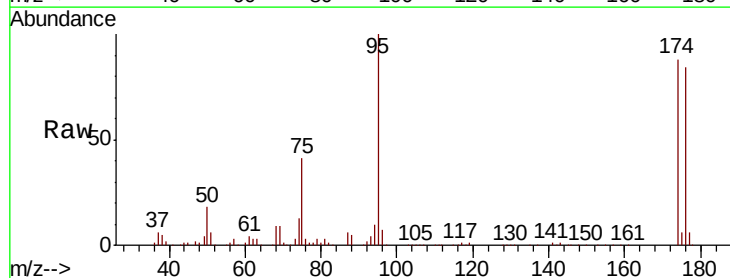
Acq: 11 Dec 2018 13:10

Tgt Ion: 75 Resp: 192663

Ion Ratio Lower Upper

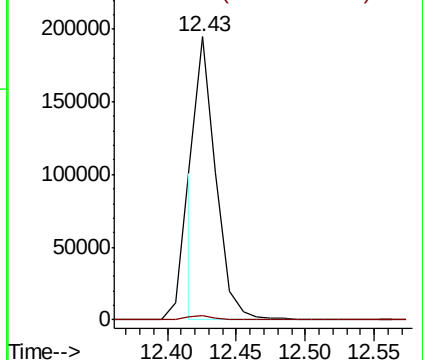
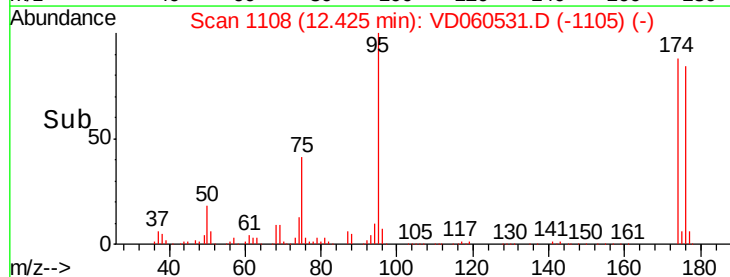
75 100

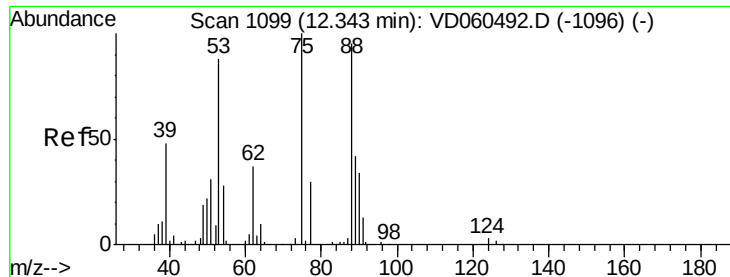
77 1.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 99.873 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060531.D

Acq: 11 Dec 2018 13:10

Instrument :

MSVOA_D

ClientSampleId :

OR-02-121018-B

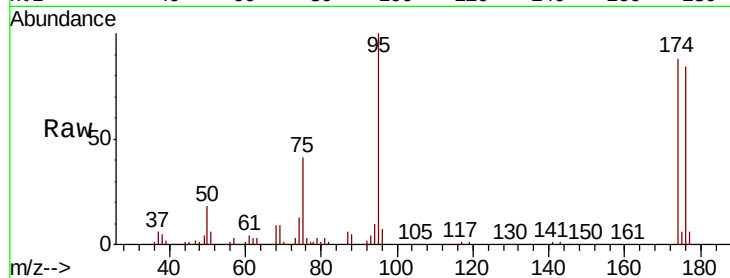
Tot Ion: 75 Resp: 258887

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

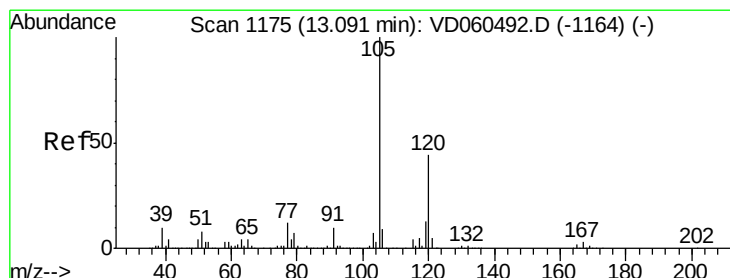
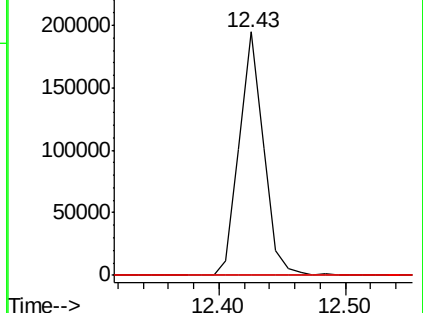
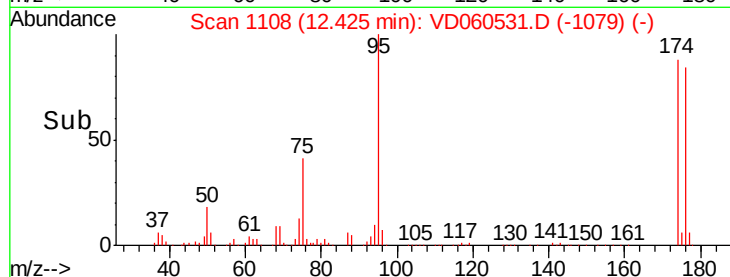
89 0.0 33.6 50.4#



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: 1.146 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VD060531.D

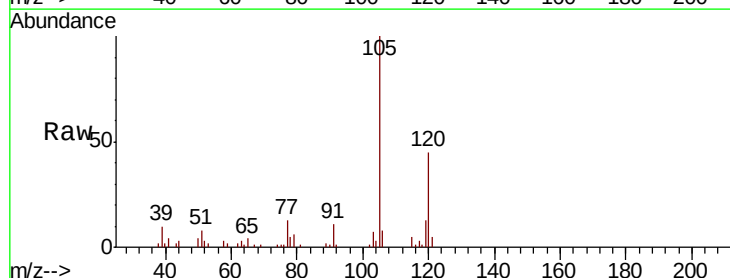
Acq: 11 Dec 2018 13:10

Tgt Ion: 105 Resp: 52633

Ion Ratio Lower Upper

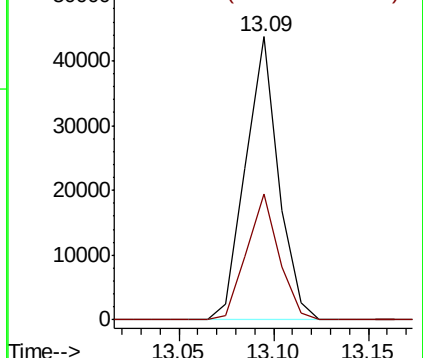
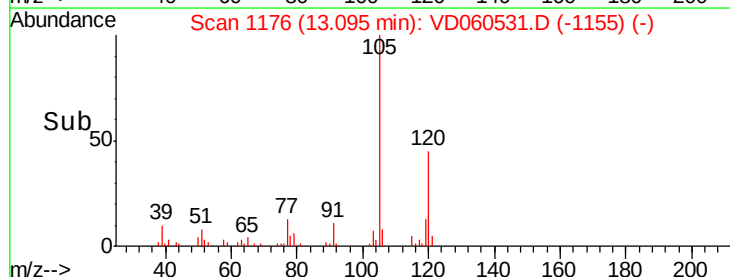
105 100

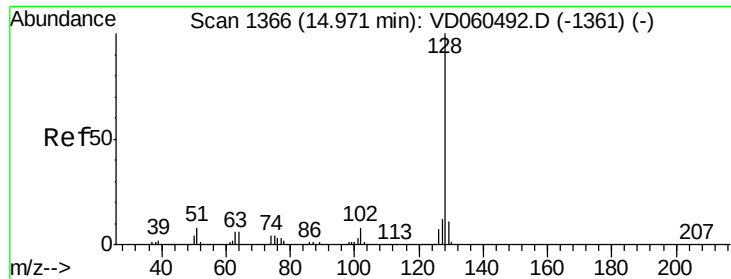
120 44.7 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

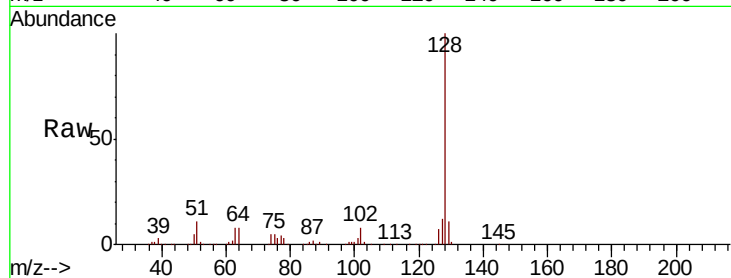




#95
 Naphthalene
 Concen: 32.647 ug/l
 RT: 14.96 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VD060531.D
 Acq: 11 Dec 2018 13:10

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-121018-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.8	14.8
129	10.9	8.6	13.0



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

