

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120418\
 Data File : VD060484.D
 Acq On : 4 Dec 2018 13:43
 Operator : VA/AP
 Sample : J6184-01
 Misc : 5.33g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-331

Quant Time: Dec 05 02:24:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1277892	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.45	114	1828656	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1348971	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	561187	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.80	65	424386	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	
35) Dibromofluoromethane	6.33	113	613422	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
50) Toluene-d8	9.46	98	1678962	42.07	ug/l	0.00
Spiked Amount			Recovery	=	84.14%	
62) 4-Bromofluorobenzene	12.43	95	548227	37.91	ug/l	-0.01
Spiked Amount			Recovery	=	75.82%	

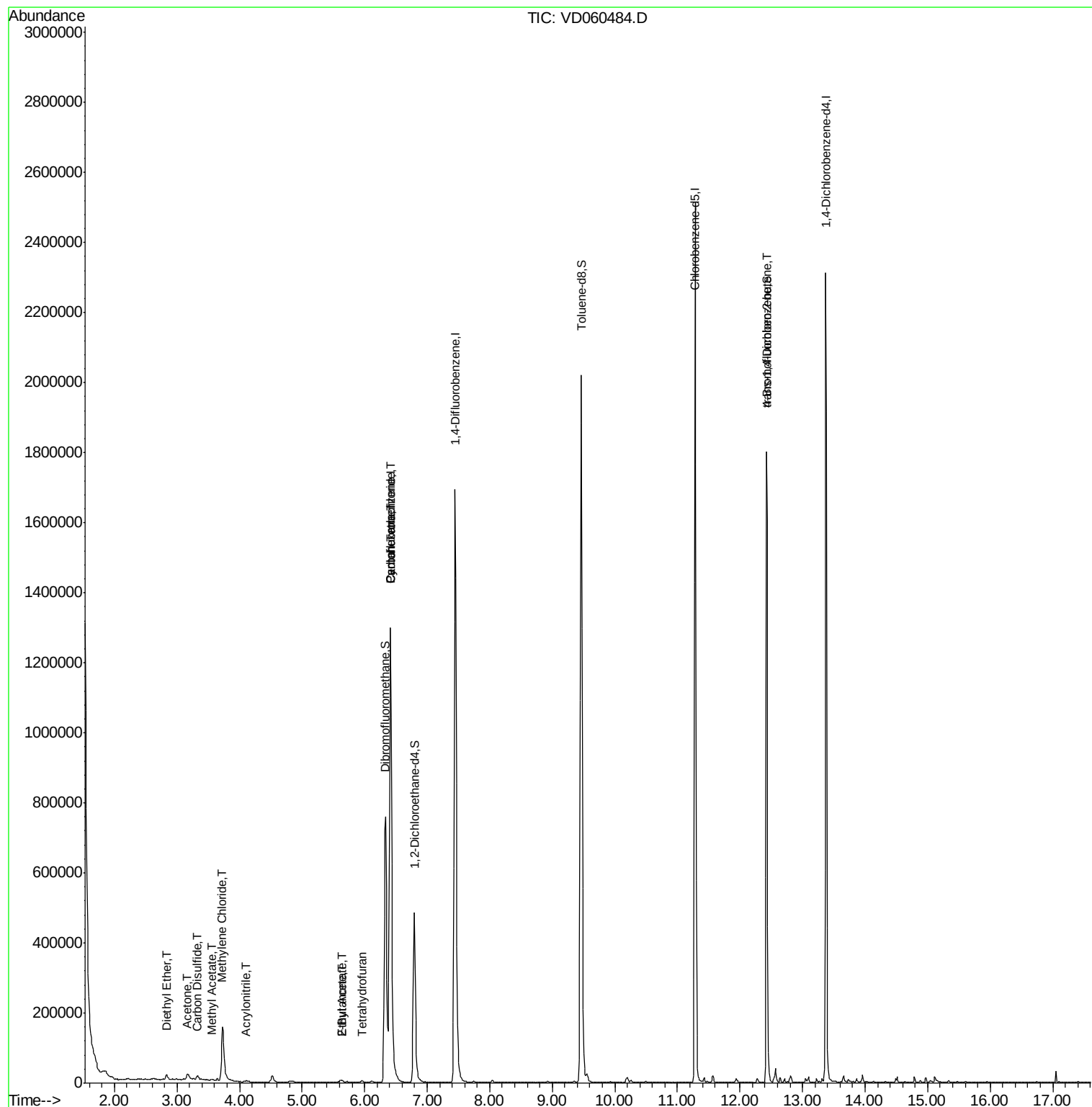
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	1751	Below Cal	#	41
8) Diethyl Ether	2.84	74	5224	2.476	ug/l	80
15) Acrylonitrile	4.09	53	2349	1.072	ug/l #	73
16) Acetone	3.17	43	39992	25.197	ug/l	95
17) Carbon Disulfide	3.33	76	21523	1.069	ug/l	96
18) Methyl Acetate	3.57	43	3436	1.015	ug/l #	63
20) Methylene Chloride	3.73	84	105453	7.490	ug/l	96
25) 2-Butanone	5.64	43	11593	3.514	ug/l	95
29) Tetrahydrofuran	5.97	42	3929	2.259	ug/l #	59
31) Cyclohexane	6.41	56	24744	1.133	ug/l #	1
37) Ethyl Acetate	5.64	43	11593	1.394	ug/l #	69
38) Carbon Tetrachloride	6.41	117	99069	5.911	ug/l #	16
81) trans-1,4-Dichloro-2-buten	12.43	75	221577	115.936	ug/l #	15
89) n-Butylbenzene	13.65	91	6365	Below Cal		84

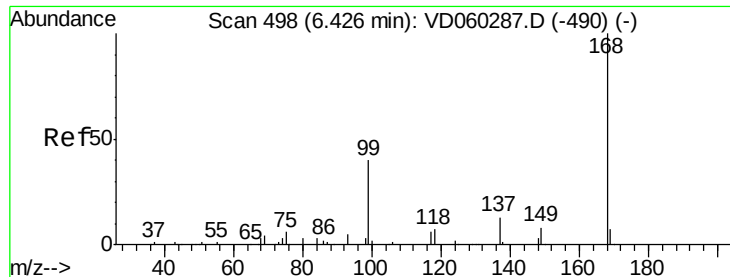
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampleId :

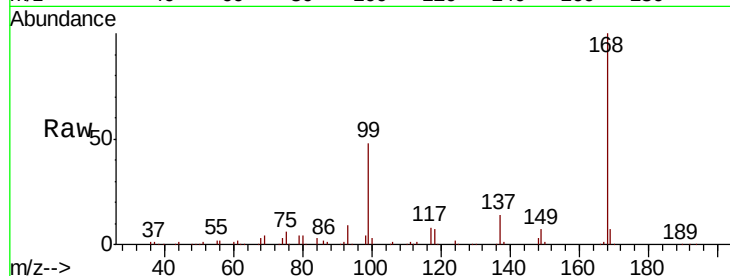
RO-331

Tot Ion:168 Resp: 1277892

Ion Ratio Lower Upper

168 100

99 48.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

500000

400000

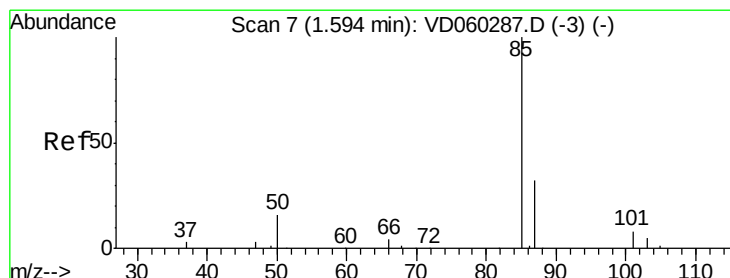
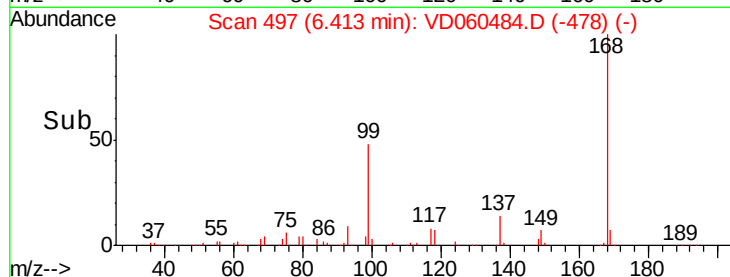
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060484.D

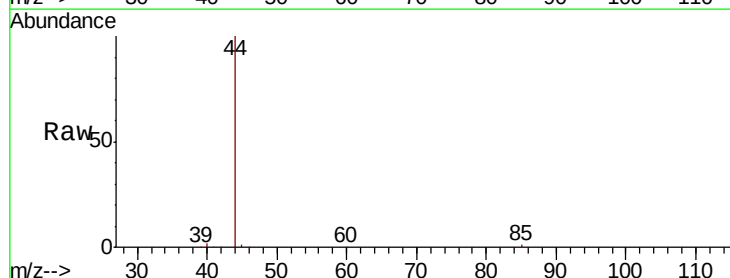
Acq: 4 Dec 2018 13:43

Tgt Ion: 85 Resp: 1751

Ion Ratio Lower Upper

85 100

87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

1000

800

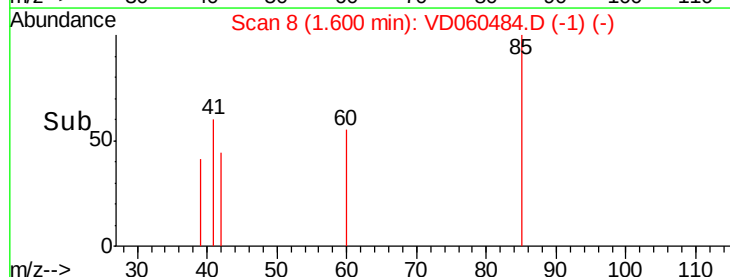
600

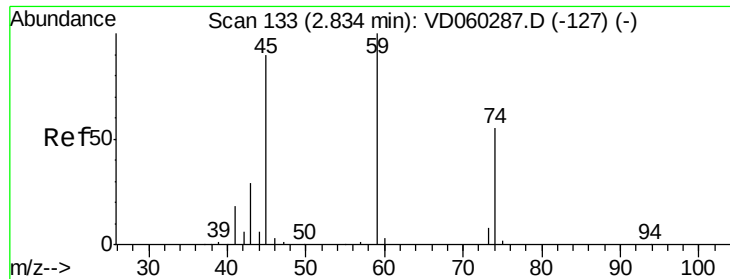
400

200

0

Time-->





#8

Diethyl Ether

Concen: 2.476 ug/l

RT: 2.84 min Scan# 134

Delta R.T. 0.01 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampleId :

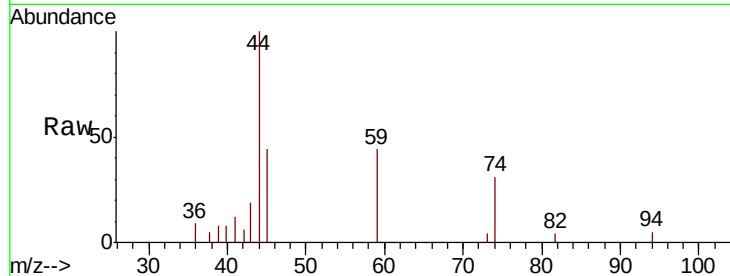
RO-331

Tot Ion: 74 Resp: 5224

Ion Ratio Lower Upper

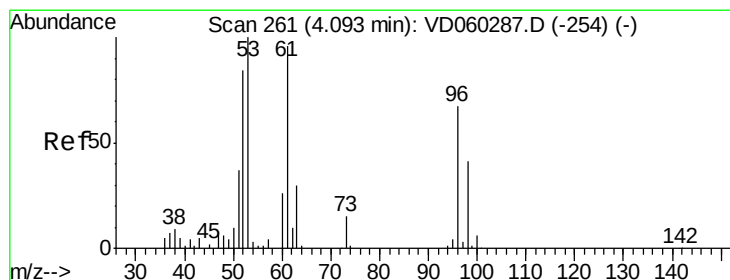
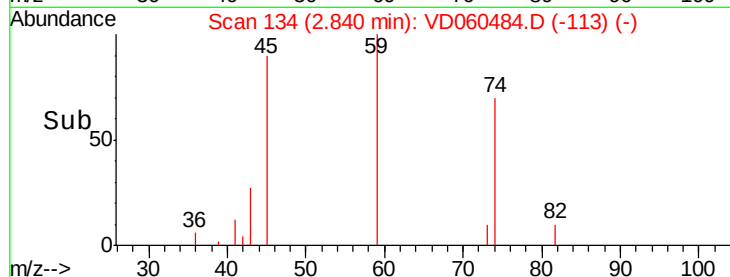
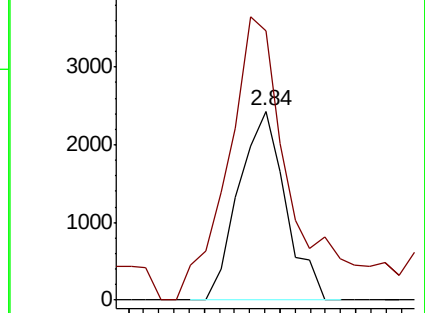
74 100

45 142.9 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#15

Acrylonitrile

Concen: 1.072 ug/l

RT: 4.09 min Scan# 261

Delta R.T. -0.00 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

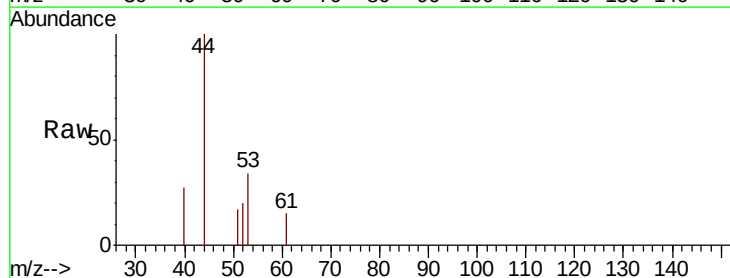
Tgt Ion: 53 Resp: 2349

Ion Ratio Lower Upper

53 100

52 58.0 67.0 100.4#

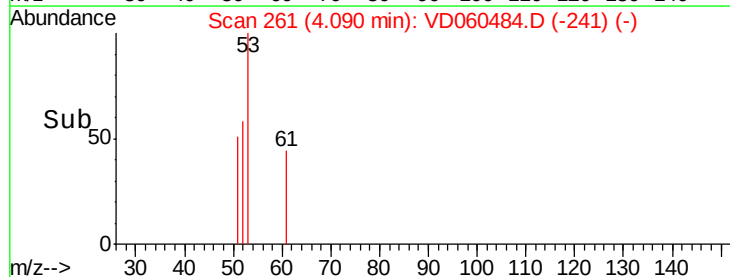
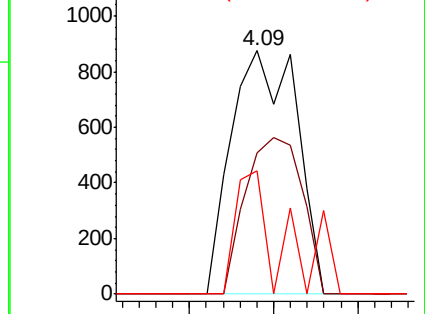
51 50.8 29.9 44.9#

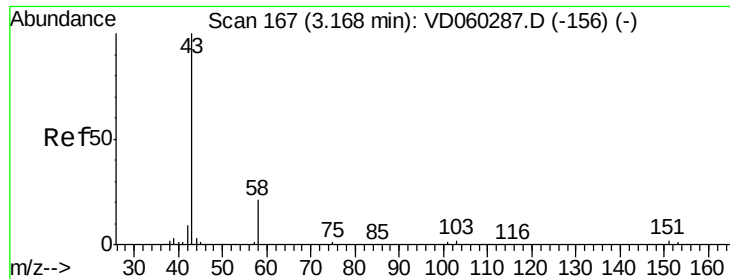


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 25.197 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampled :

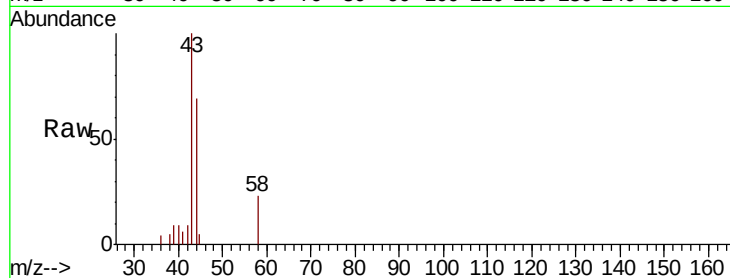
RO-331

Tot Ion: 43 Resp: 39992

Ion Ratio Lower Upper

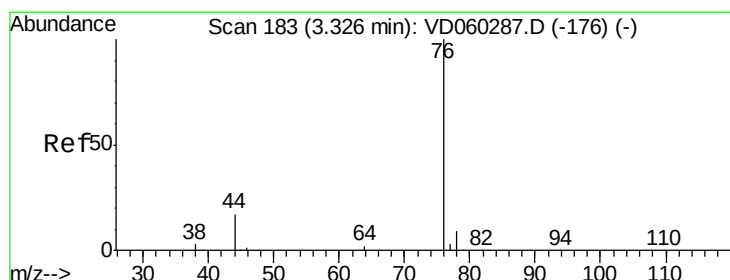
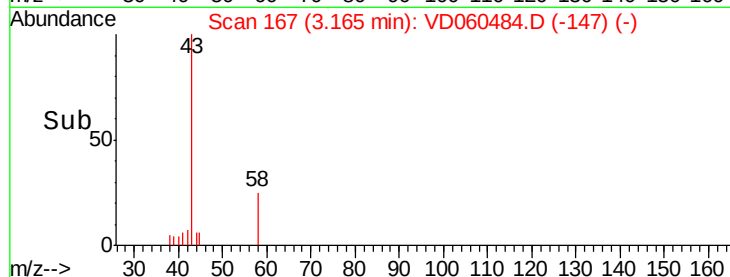
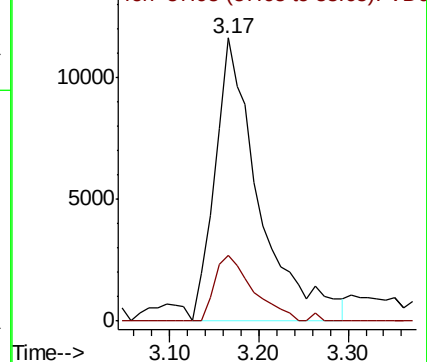
43 100

58 23.4 16.9 25.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.069 ug/l

RT: 3.33 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD060484.D

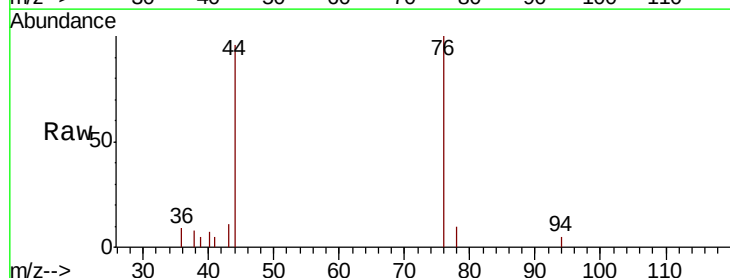
Acq: 4 Dec 2018 13:43

Tgt Ion: 76 Resp: 21523

Ion Ratio Lower Upper

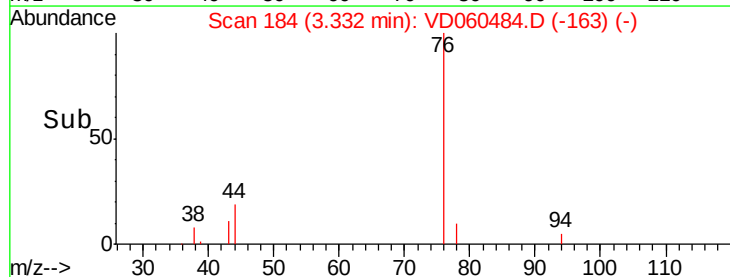
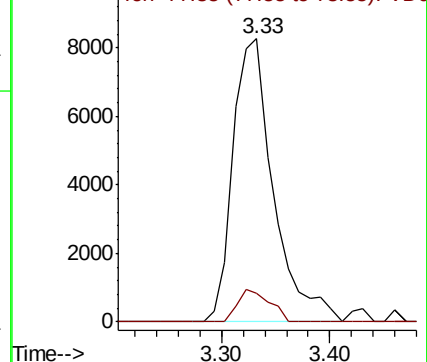
76 100

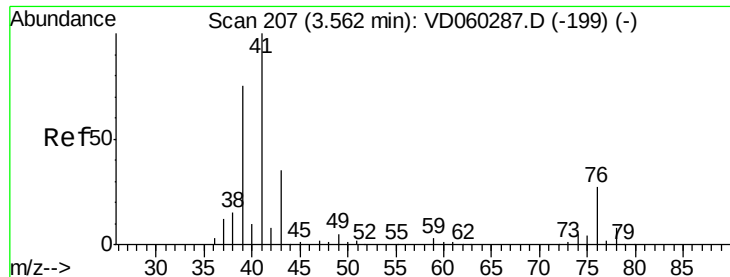
78 10.2 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

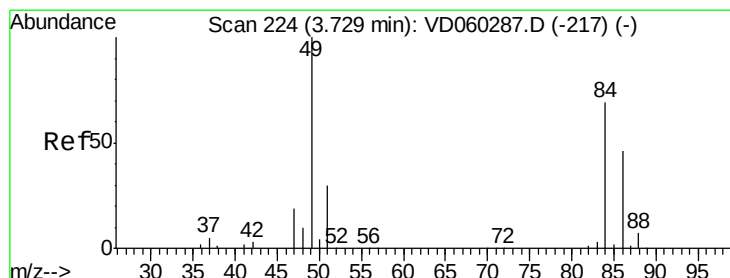
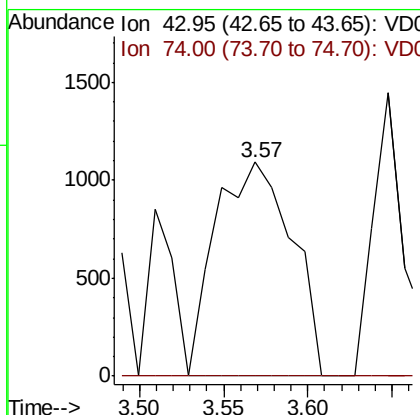
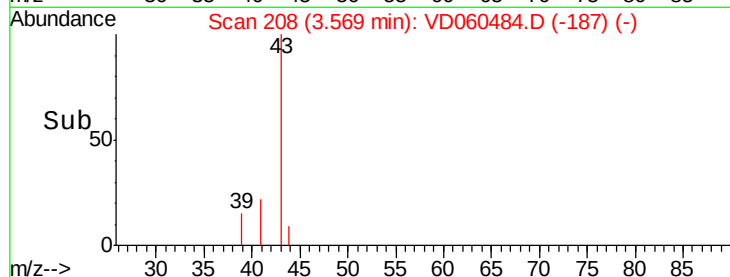
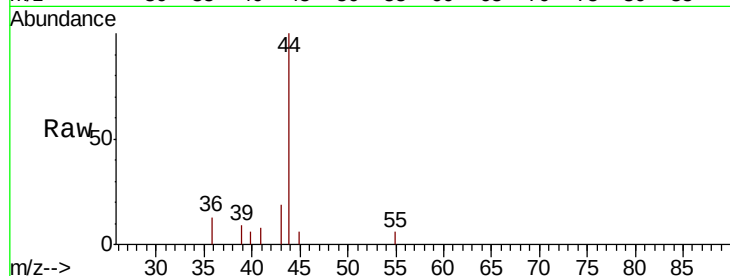




#18
Methyl Acetate
Concen: 1.015 ug/l
RT: 3.57 min Scan# 208
Delta R.T. 0.01 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

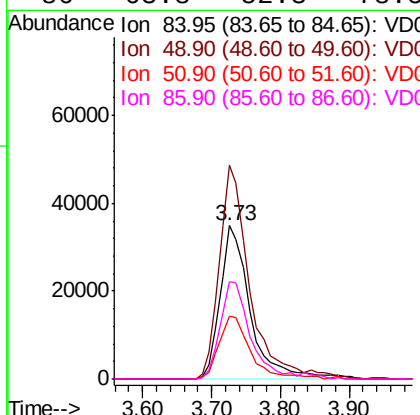
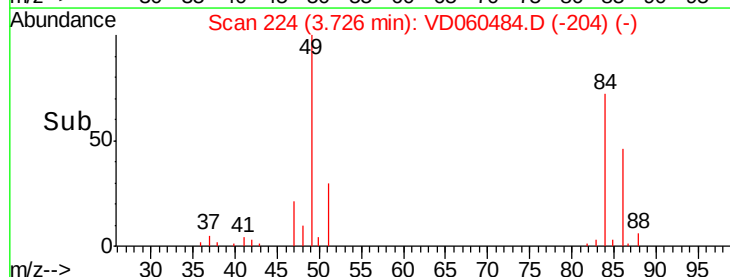
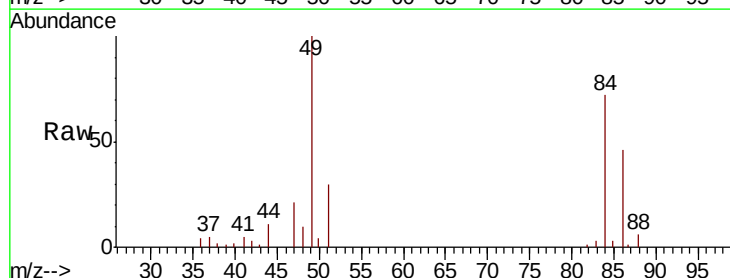
Instrument :
MSVOA_D
ClientSampled :
RO-331

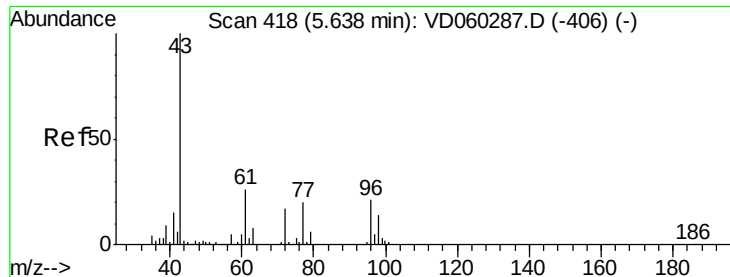
Tot Ion: 43 Resp: 3436
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 7.490 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Tgt Ion: 84 Resp: 105453
Ion Ratio Lower Upper
84 100
49 139.2 115.6 173.4
51 41.1 35.6 53.4
86 63.8 52.3 78.5





#25

2-Butanone

Concen: 3.514 ug/l

RT: 5.64 min Scan# 418

Delta R.T. -0.00 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampleId :

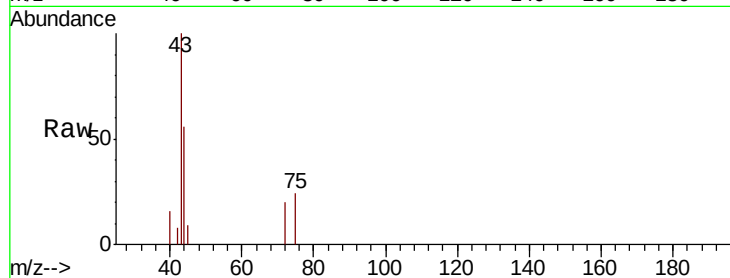
RO-331

Tot Ion: 43 Resp: 11593

Ion Ratio Lower Upper

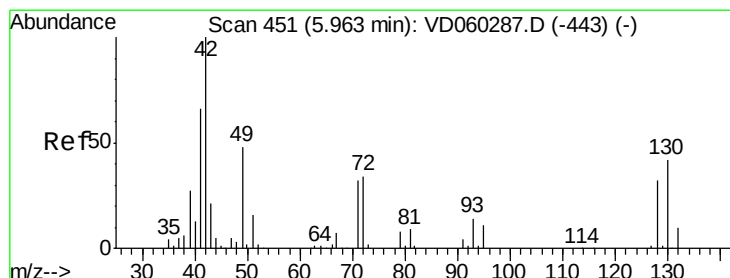
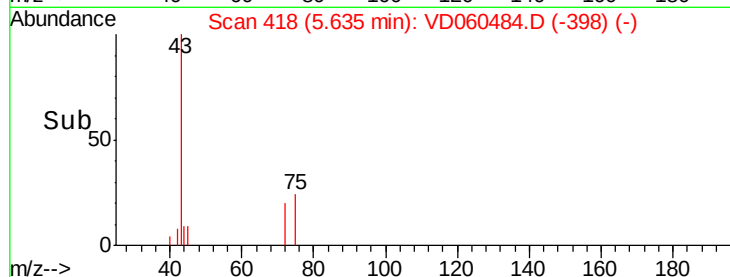
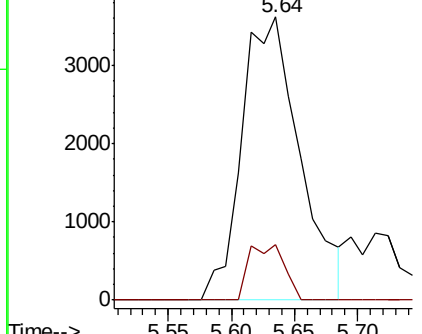
43 100

72 19.6 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.259 ug/l

RT: 5.97 min Scan# 452

Delta R.T. 0.01 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

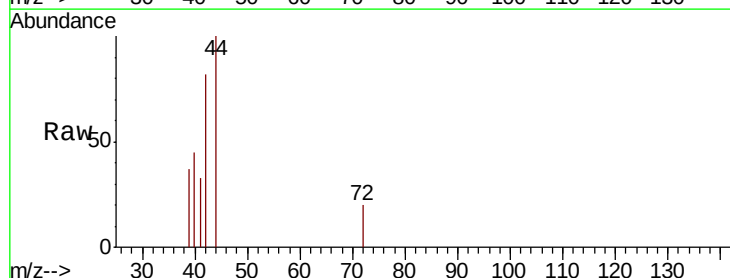
Tgt Ion: 42 Resp: 3929

Ion Ratio Lower Upper

42 100

72 10.4 27.6 41.4#

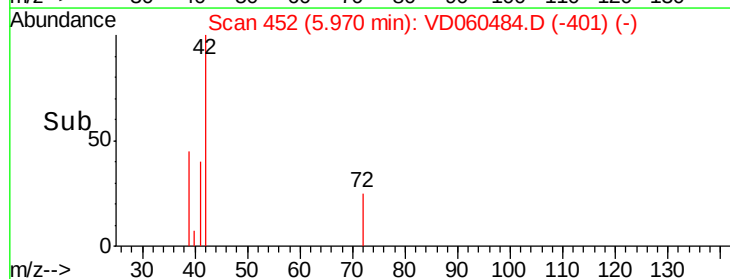
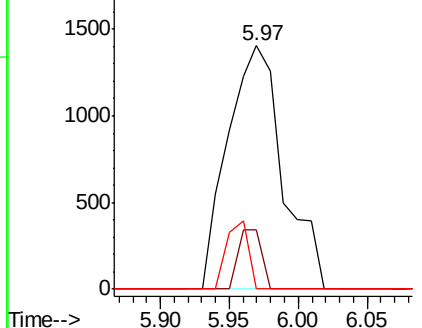
71 10.8 26.5 39.7#

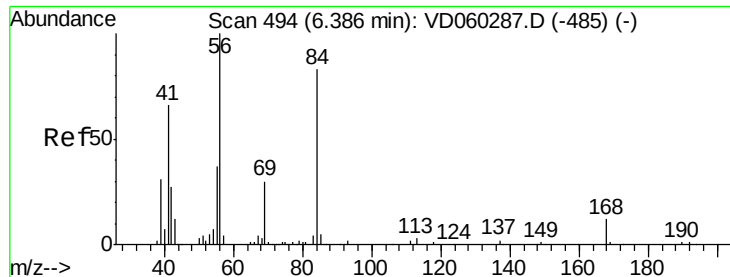


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

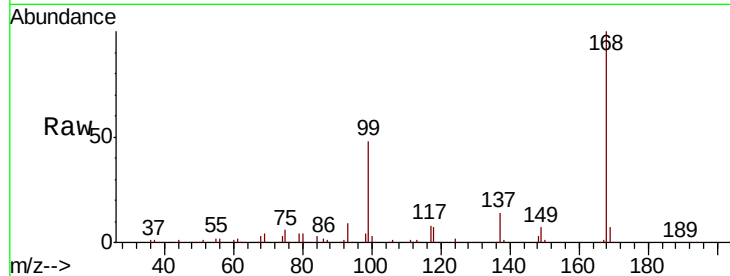




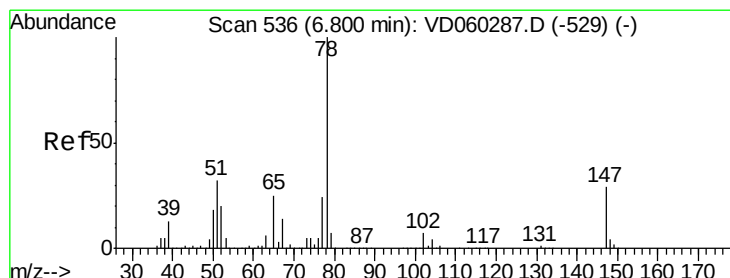
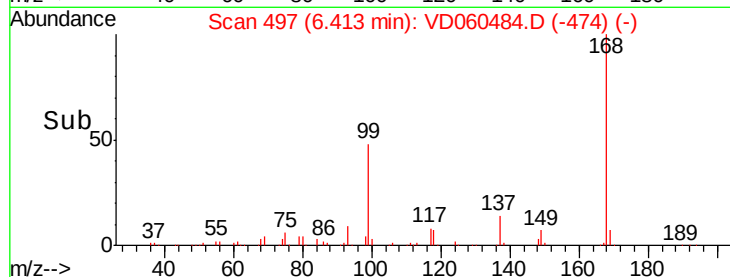
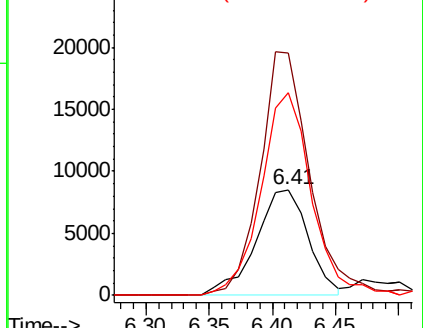
#31
Cyclohexane
Concen: 1.133 ug/l
RT: 6.41 min Scan# 497
Delta R.T. 0.03 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Instrument :
MSVOA_D
ClientSampleId :
RO-331

Tot Ion: 56 Resp: 24744
Ion Ratio Lower Upper
56 100
69 229.7 22.2 33.2#
84 191.8 63.0 94.4#

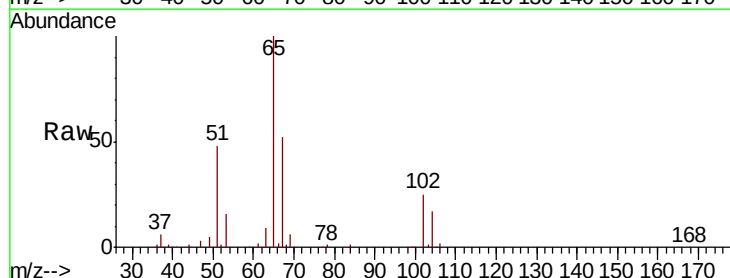


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

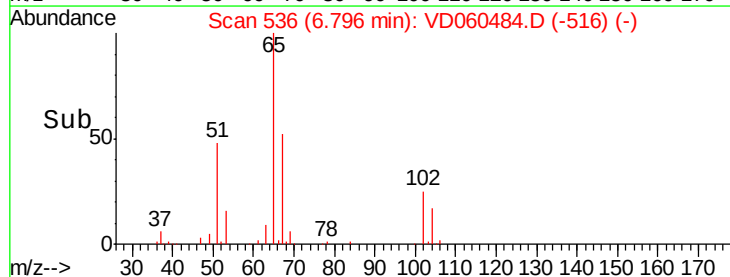
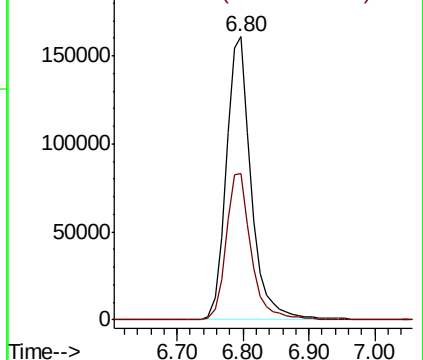


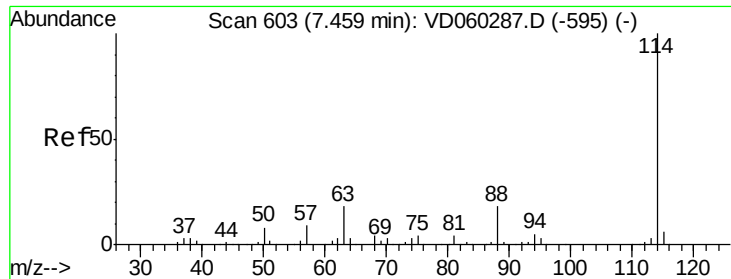
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.00 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Tgt Ion: 65 Resp: 424386
Ion Ratio Lower Upper
65 100
67 51.5 0.0 109.8



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

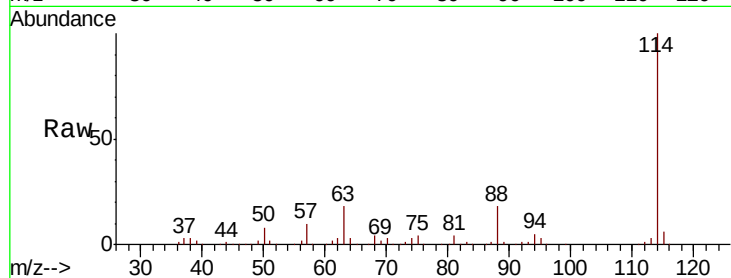




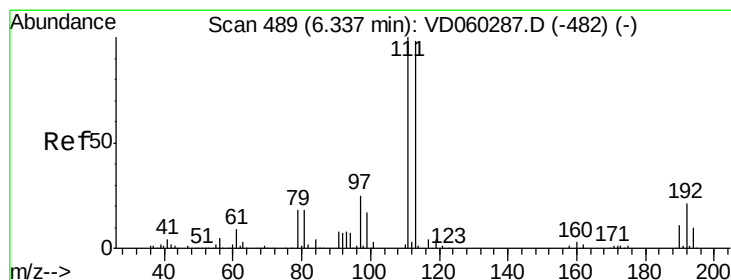
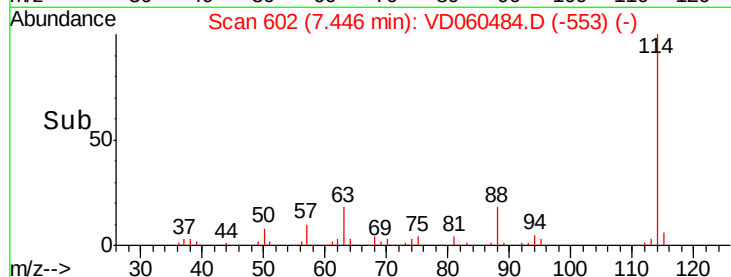
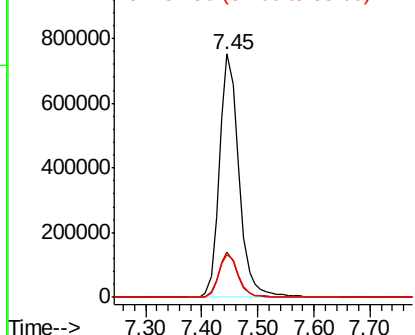
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.45 min Scan# 602
Delta R.T. -0.01 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Instrument :
MSVOA_D
ClientSampleID :
RO-331

Tot Ion:114 Resp: 1828656
Ion Ratio Lower Upper
114 100
63 18.3 0.0 34.0
88 17.7 0.0 35.4

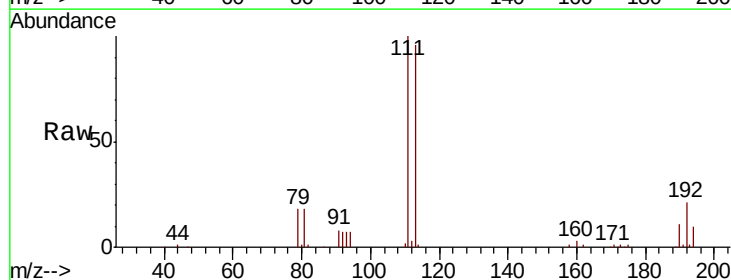


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

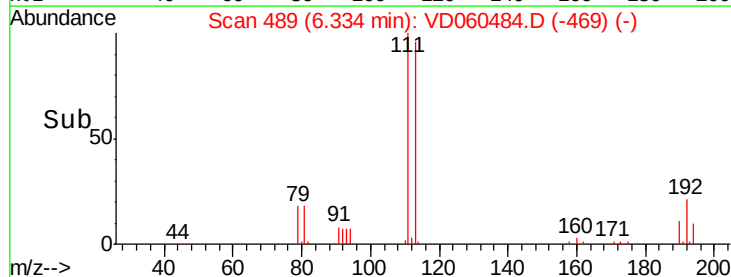
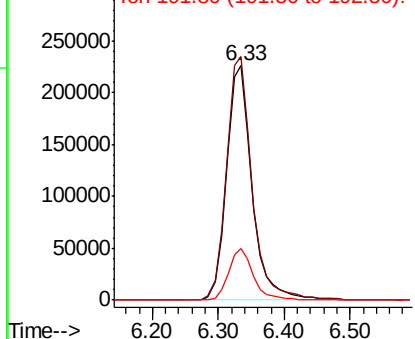


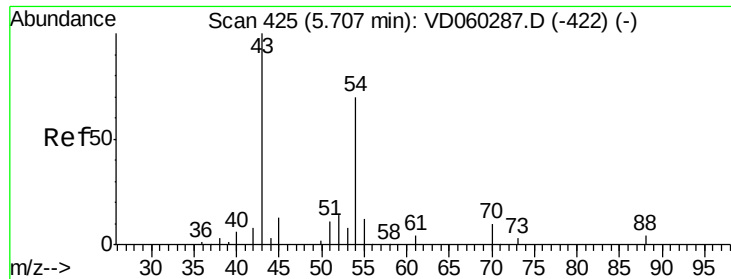
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 489
Delta R.T. -0.00 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Tgt Ion:113 Resp: 613422
Ion Ratio Lower Upper
113 100
111 103.8 81.6 122.4
192 22.3 16.5 24.7



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

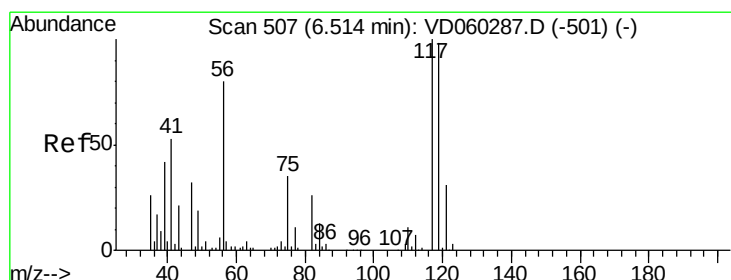
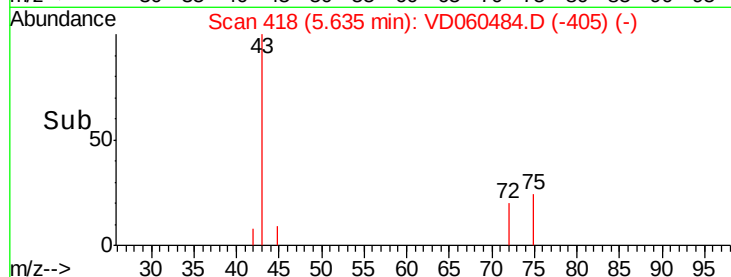
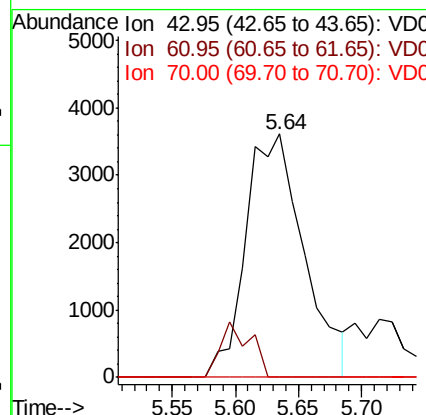
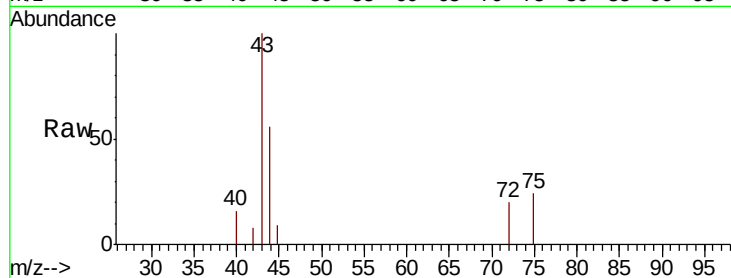




#37
Ethyl Acetate
Concen: 1.394 ug/l
RT: 5.64 min Scan# 418
Delta R.T. -0.07 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

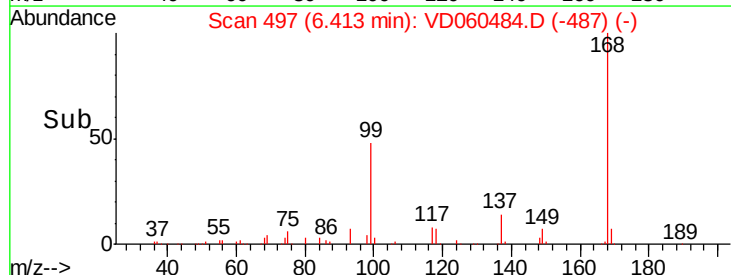
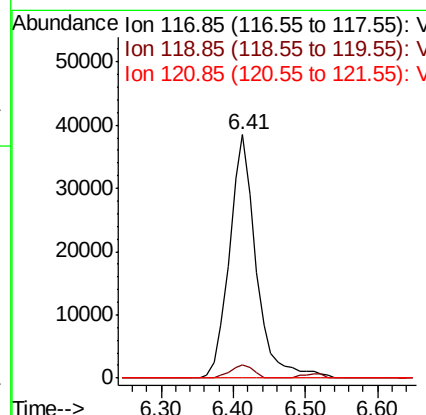
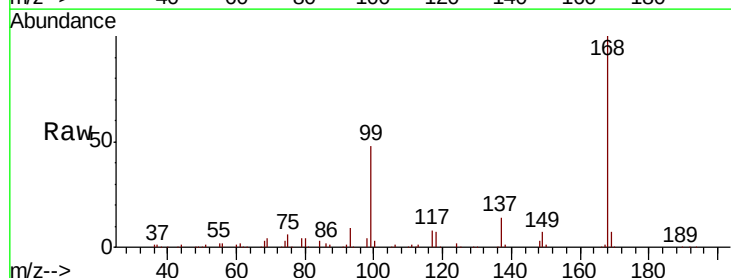
Instrument :
MSVOA_D
ClientSampleID :
RO-331

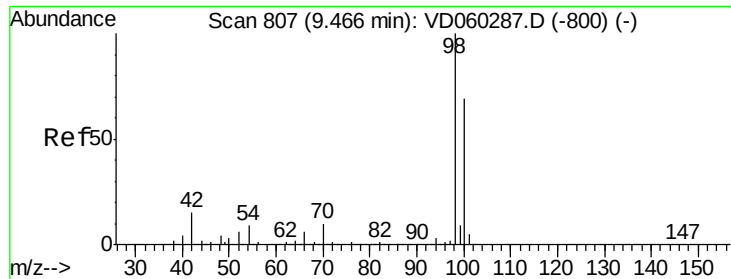
Tot Ion: 43 Resp: 11593
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 6.2 9.4#



#38
Carbon Tetrachloride
Concen: 5.911 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Tgt Ion: 117 Resp: 99069
Ion Ratio Lower Upper
117 100
119 5.6 76.6 115.0#
121 0.0 24.3 36.5#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.46 min Scan# 807

Delta R.T. -0.00 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampled :

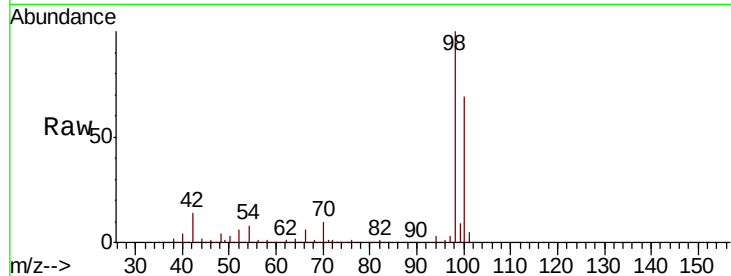
RO-331

Tot Ion: 98 Resp: 1678962

Ion Ratio Lower Upper

98 100

100 69.3 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VD060484.D (-787) (-)

Ion 100.05 (99.75 to 100.75): VD060484.D (-787) (-)

800000

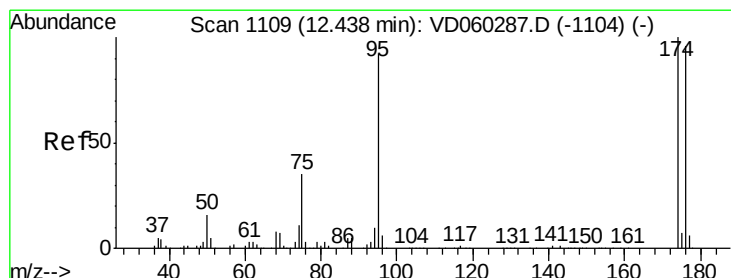
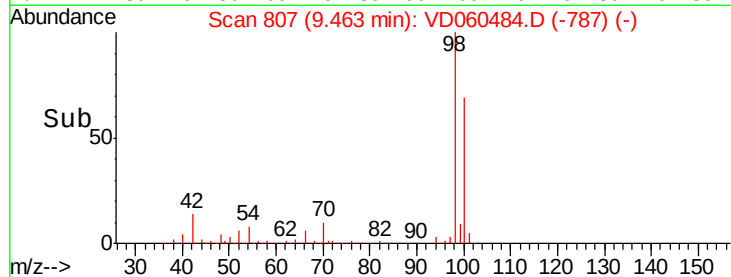
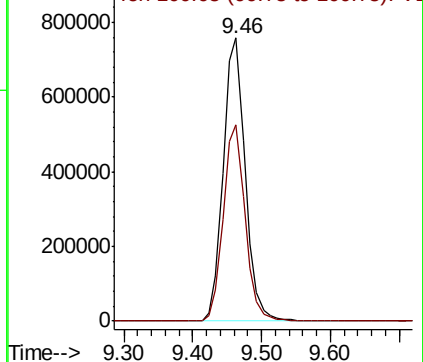
600000

400000

200000

0

9.30 9.40 9.50 9.60



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

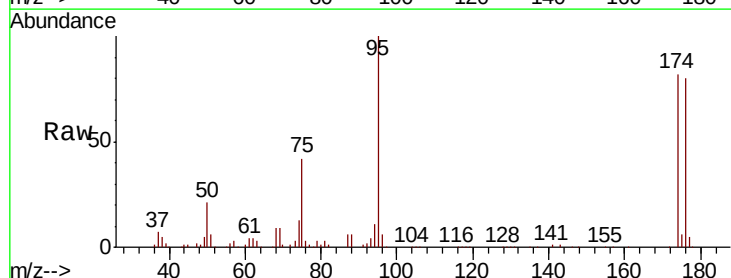
Tgt Ion: 95 Resp: 548227

Ion Ratio Lower Upper

95 100

174 82.2 0.0 160.8

176 79.6 0.0 154.6



Abundance Ion 95.00 (94.70 to 95.70): VD060484.D (-1089) (-)

Ion 173.90 (173.60 to 174.60): VD060484.D (-1089) (-)

Ion 175.90 (175.60 to 176.60): VD060484.D (-1089) (-)

500000

400000

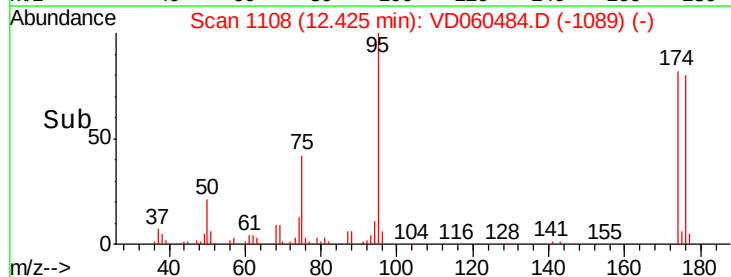
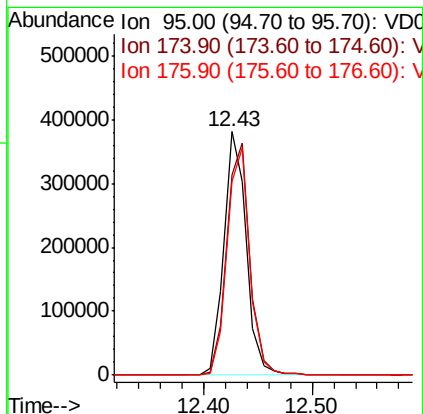
300000

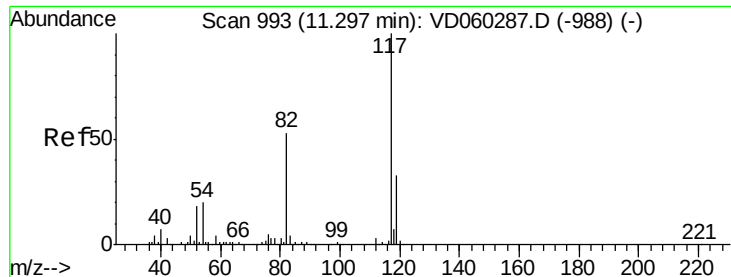
200000

100000

0

12.40 12.50

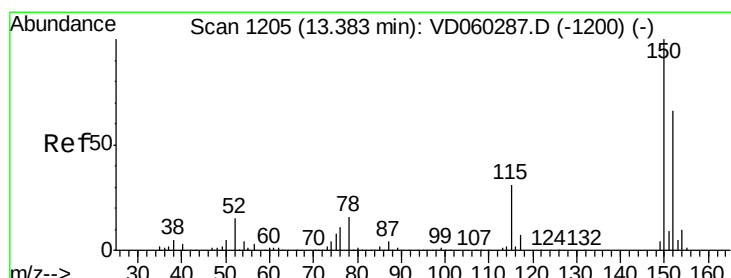
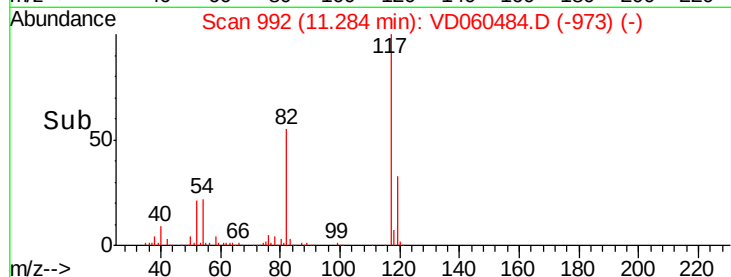
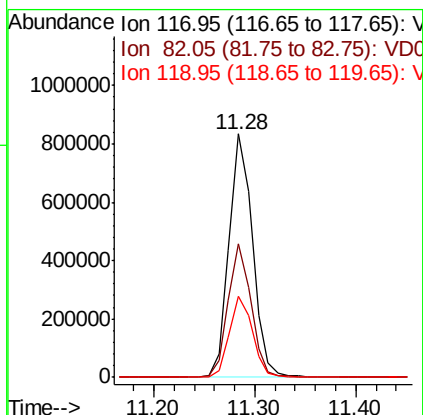
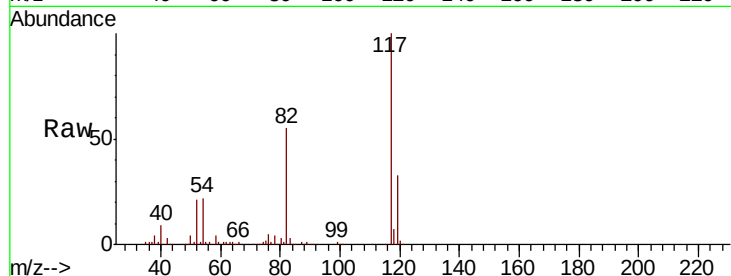




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

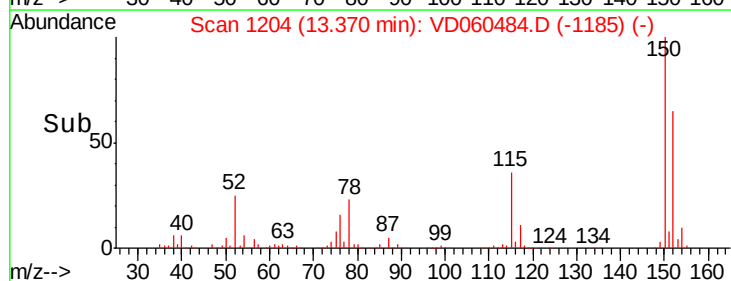
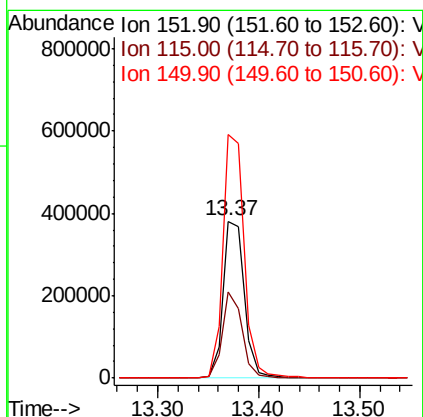
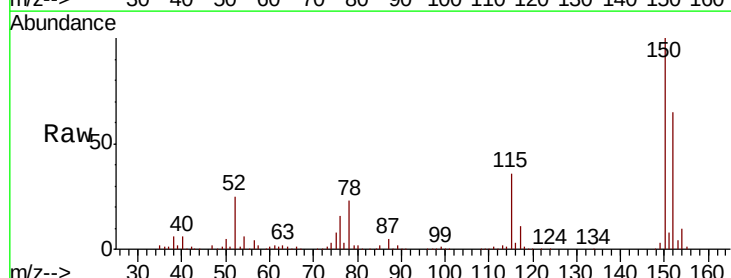
Instrument :
MSVOA_D
ClientSampled :
RO-331

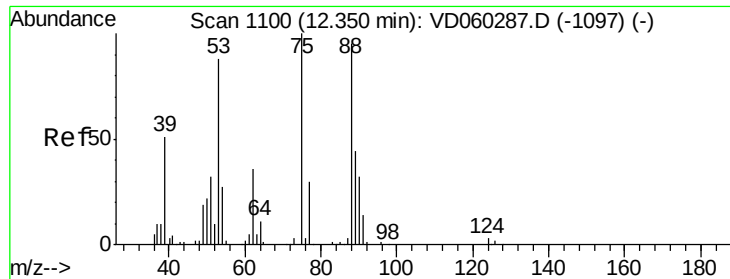
Tot Ion:117 Resp: 1348971
Ion Ratio Lower Upper
117 100
82 54.9 43.7 65.5
119 33.1 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060484.D
Acq: 4 Dec 2018 13:43

Tgt Ion:152 Resp: 561187
Ion Ratio Lower Upper
152 100
115 55.2 24.1 72.3
150 154.9 0.0 310.6





#81

trans-1,4-Dichloro-2-butene

Concen: 115.936 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060484.D

Acq: 4 Dec 2018 13:43

Instrument :

MSVOA_D

ClientSampleId :

RO-331

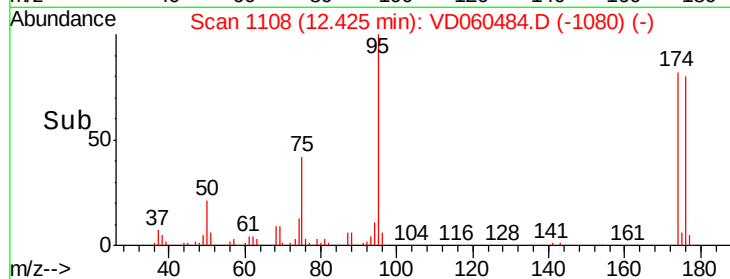
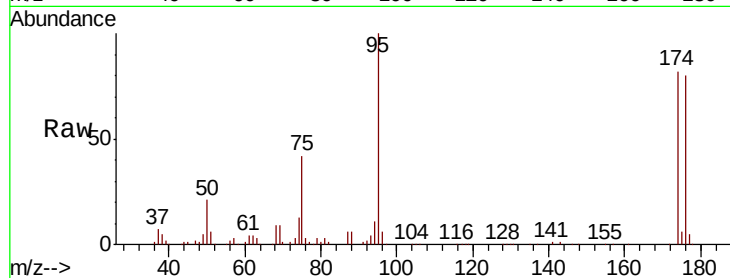
Tot Ion: 75 Resp: 221577

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 34.1 51.1#



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

