

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121218\
 Data File : VD060549.D
 Acq On : 12 Dec 2018 16:13
 Operator : VA/AP
 Sample : J6344-04
 Misc : 5.07/0.5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 RBR-200031

Quant Time: Dec 13 00:20:28 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	1003833	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	1548257	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1372682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	703610	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	413994	58.18	ug/l	-0.01
Spiked Amount			Recovery	=	116.36%	
35) Dibromofluoromethane	6.33	113	6430	0.57	ug/l	0.00
Spiked Amount			Recovery	=	1.14%	
50) Toluene-d8	9.45	98	1226038	37.26	ug/l	-0.01
Spiked Amount			Recovery	=	74.52%	
62) 4-Bromofluorobenzene	12.42	95	527086	44.76	ug/l	-0.01
Spiked Amount			Recovery	=	89.52%	

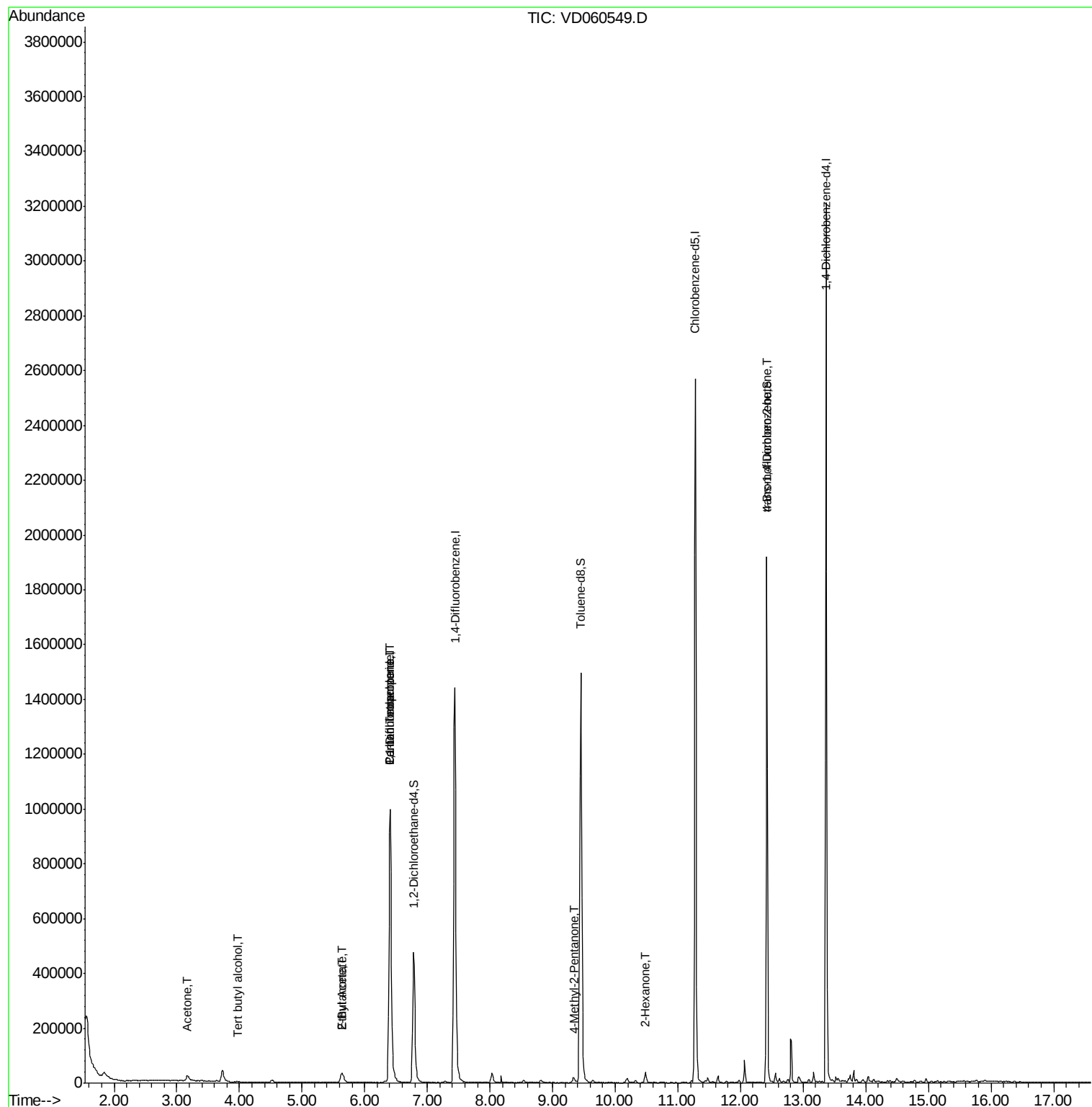
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.61	85	187	Below Cal	#	41
11) Tert butyl alcohol	3.97	59	3721	12.872	ug/l #	73
16) Acetone	3.17	43	48226	42.285	ug/l	98
20) Methylene Chloride	3.73	84	29076	Below Cal		88
25) 2-Butanone	5.62	43	44356	19.768	ug/l	97
31) Cyclohexane	6.40	56	18682	Below Cal	#	1
36) 1,1-Dichloropropene	6.41	75	72430	4.786	ug/l #	46
37) Ethyl Acetate	5.62	43	44356	6.758	ug/l #	68
38) Carbon Tetrachloride	6.41	117	77734	5.721	ug/l #	15
51) 4-Methyl-2-Pentanone	9.34	43	20472	4.062	ug/l	89
59) 2-Hexanone	10.48	43	36879	10.469	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.42	75	215868	97.084	ug/l #	14
89) n-Butylbenzene	13.64	91	870	Below Cal	#	60

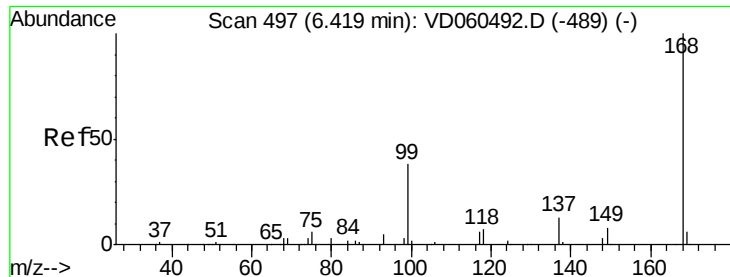
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 13 00:20:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
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# 496

Delta R.T. -0.01 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

Instrument :

MSVOA_D

ClientSampleId :

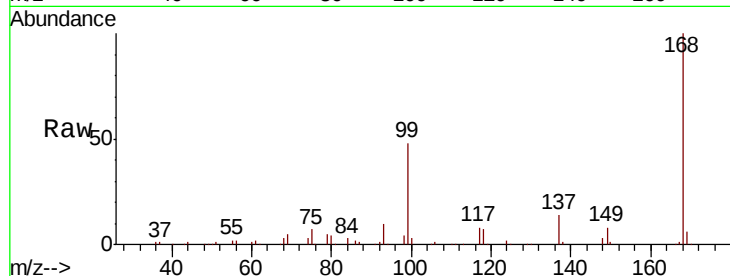
RBR-200031

Tot Ion:168 Resp: 1003833

Ion Ratio Lower Upper

168 100

99 48.1 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

400000

300000

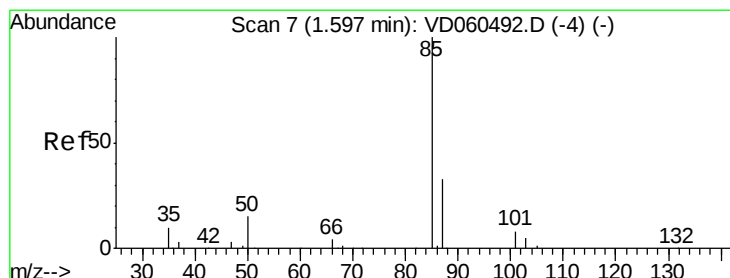
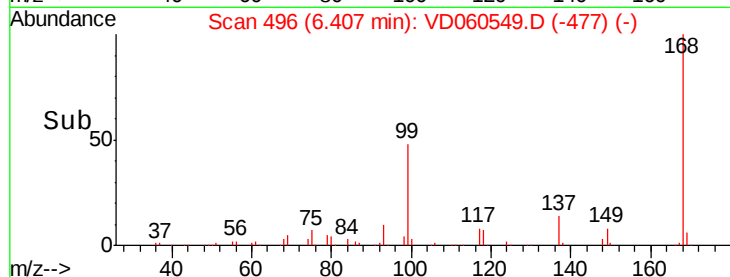
200000

100000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.61 min Scan# 9

Delta R.T. 0.02 min

Lab File: VD060549.D

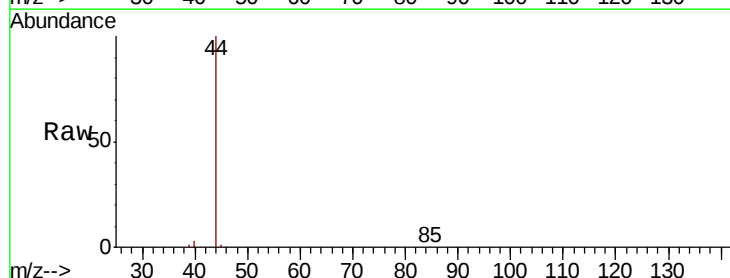
Acq: 12 Dec 2018 16:13

Tgt Ion: 85 Resp: 187

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

1.61

300

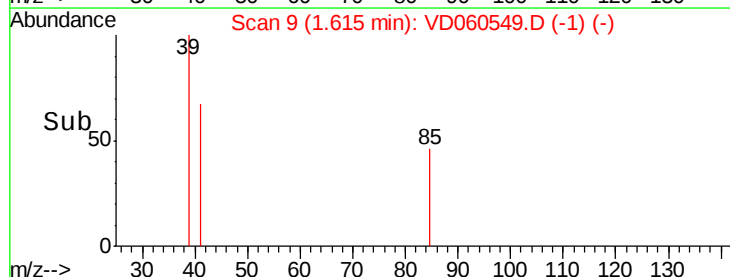
200

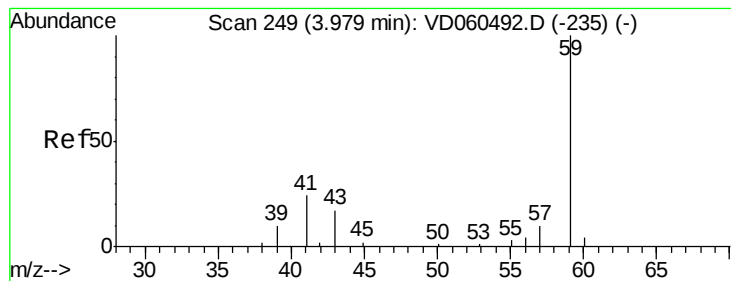
100

0

1.58 1.60 1.62 1.64

Time-->



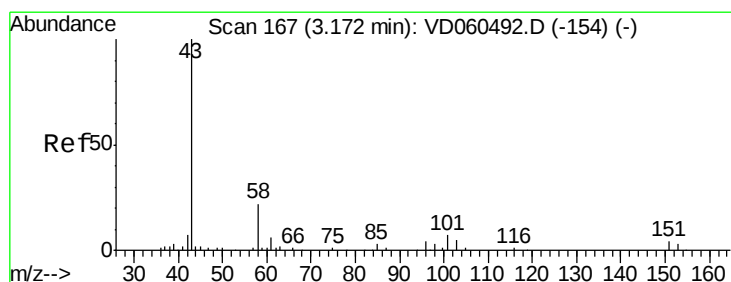
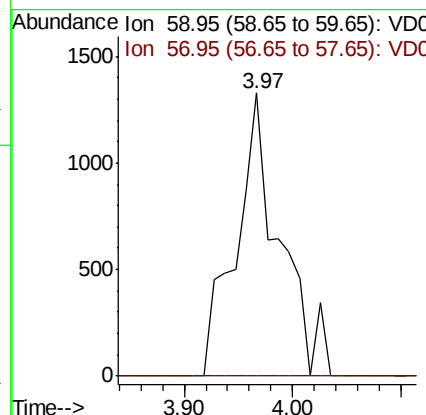
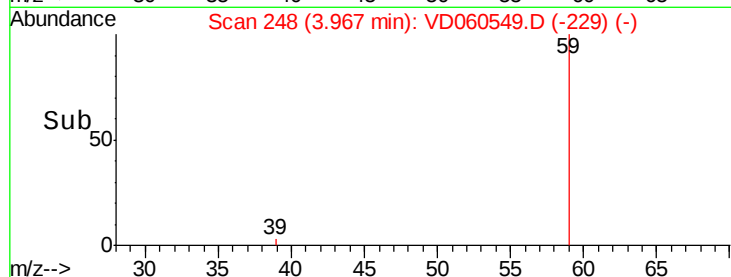
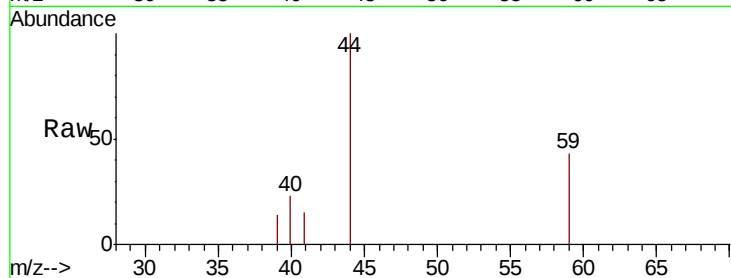


#11

Tert butyl alcohol
 Concen: 12.872 ug/l
 RT: 3.97 min Scan# 248
 Delta R.T. -0.01 min
 Lab File: VD060549.D
 Acq: 12 Dec 2018 16:13

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200031

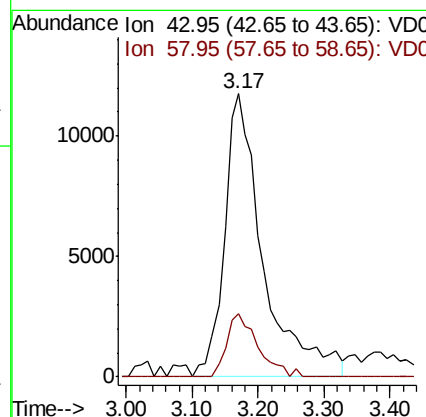
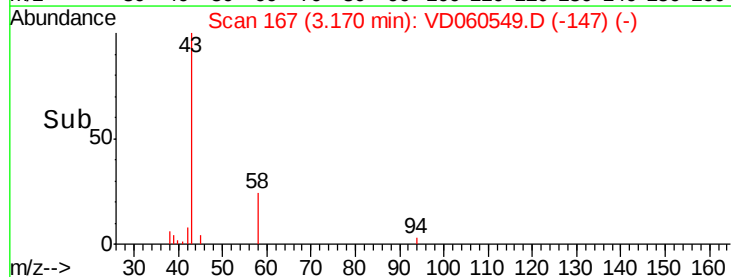
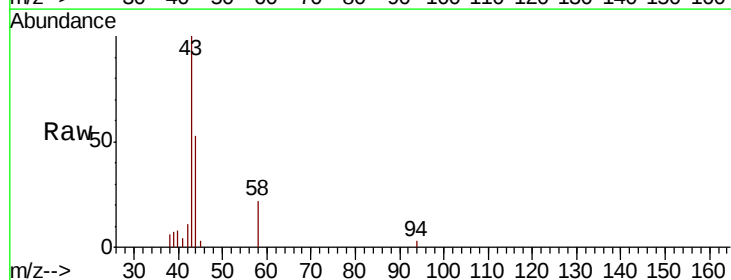
Tot Ion: 59 Resp: 3721
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

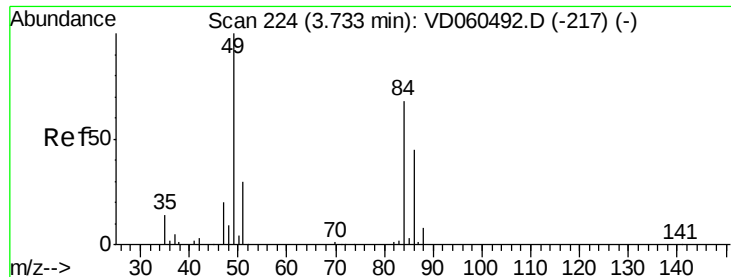


#16

Acetone
 Concen: 42.285 ug/l
 RT: 3.17 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VD060549.D
 Acq: 12 Dec 2018 16:13

Tgt Ion: 43 Resp: 48226
 Ion Ratio Lower Upper
 43 100
 58 22.5 17.3 25.9

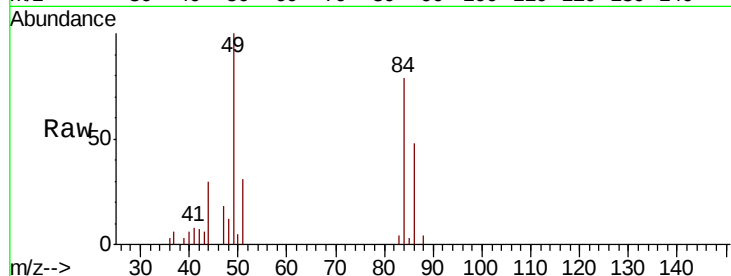




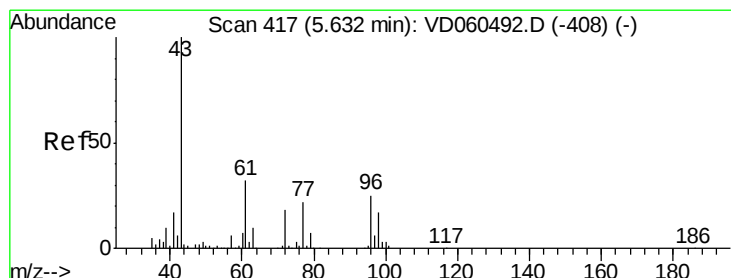
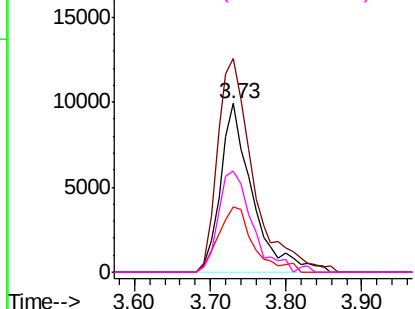
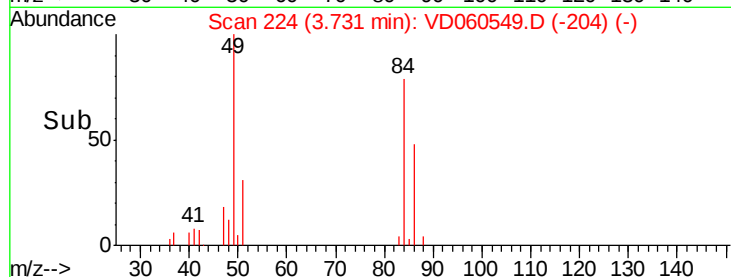
#20
Methvlene Chloride
Concen: Below Cal
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Instrument :
MSVOA_D
ClientSampleId :
RBR-200031

Tot Ion: 84 Resp: 29076
Ion Ratio Lower Upper
84 100
49 126.6 117.2 175.8
51 38.9 35.3 52.9
86 60.2 53.2 79.8

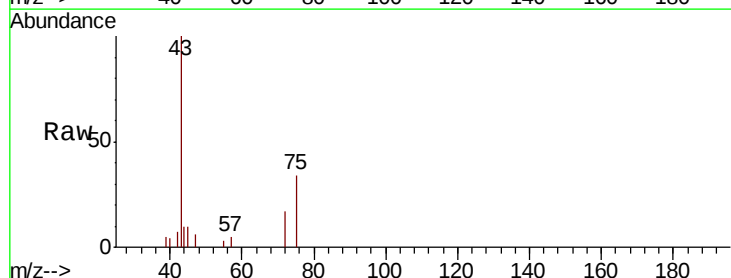


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

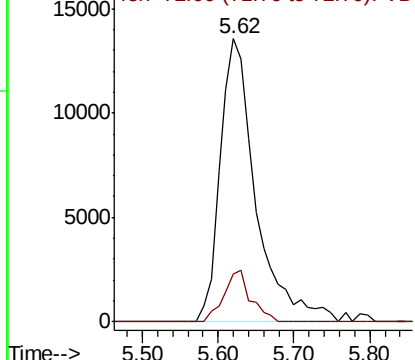
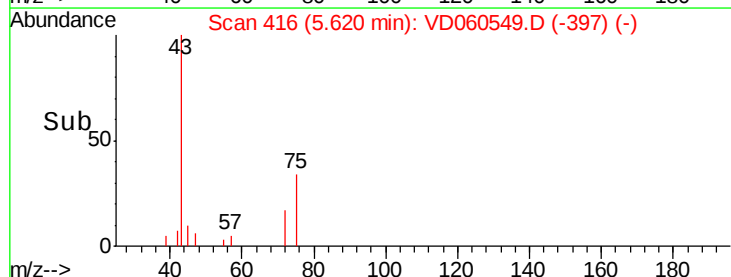


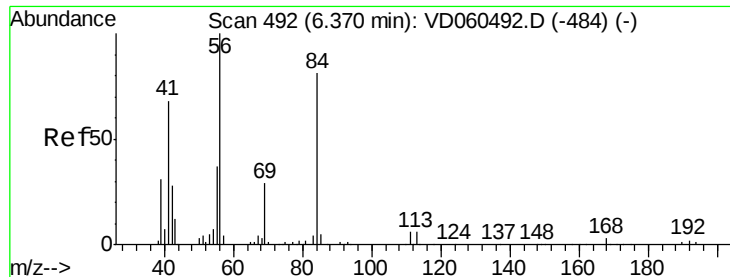
#25
2-Butanone
Concen: 19.768 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.01 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Tgt Ion: 43 Resp: 44356
Ion Ratio Lower Upper
43 100
72 17.1 14.6 21.8



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

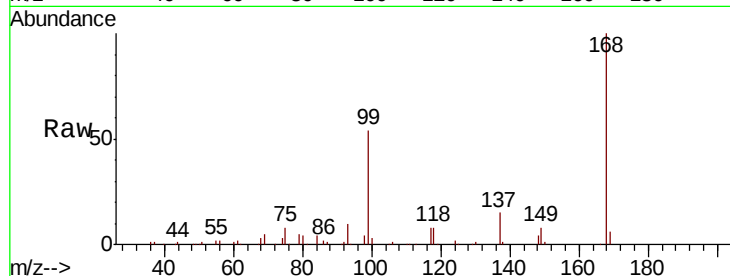




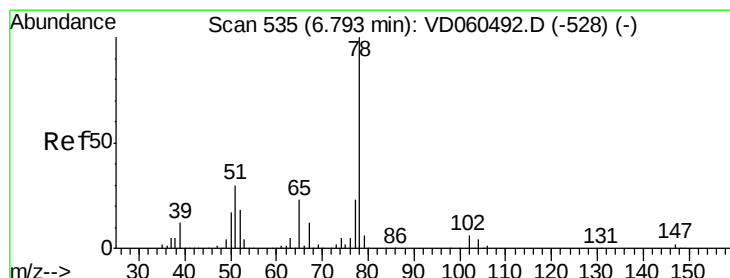
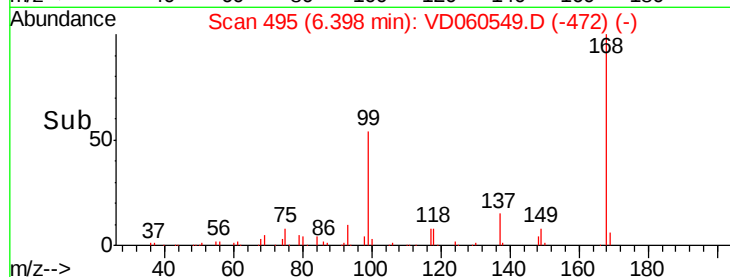
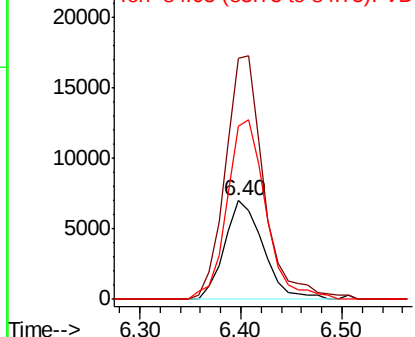
#31
Cyclohexane
Concen: Below Cal
RT: 6.40 min Scan# 495
Delta R.T. 0.03 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Instrument :
MSVOA_D
ClientSampleId :
RBR-200031

Tot Ion: 56 Resp: 18682
Ion Ratio Lower Upper
56 100
69 244.6 22.8 34.2#
84 175.8 65.1 97.7#

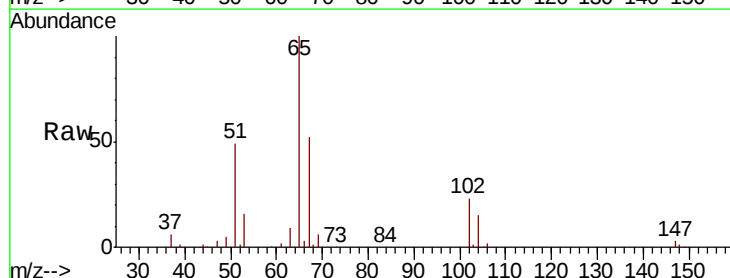


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

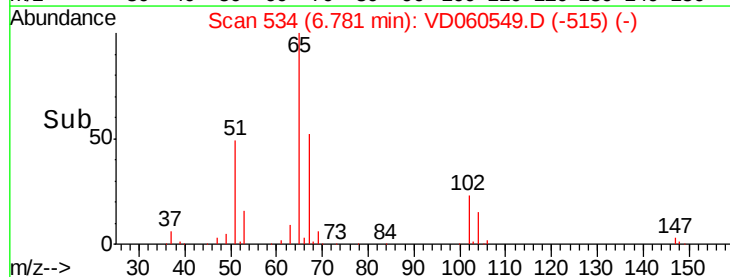
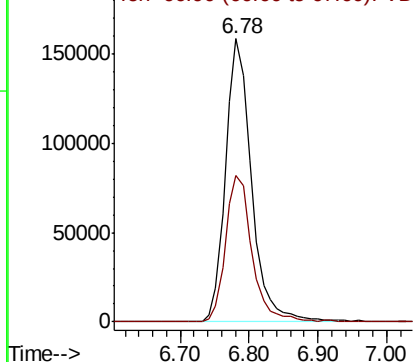


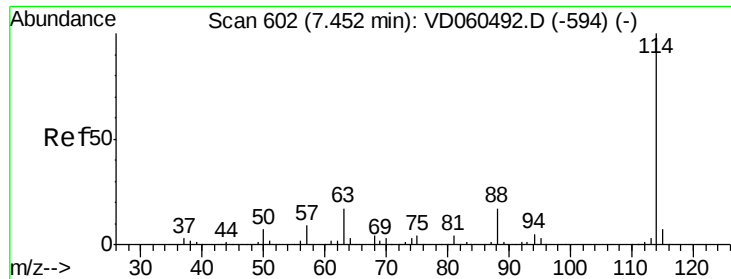
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. -0.01 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Tgt Ion: 65 Resp: 413994
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.8



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

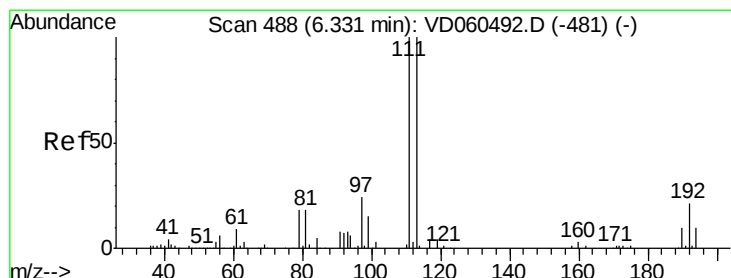
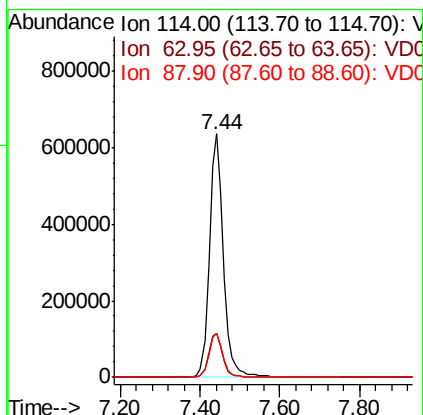
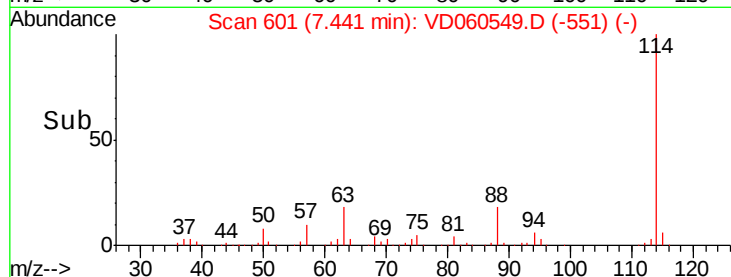
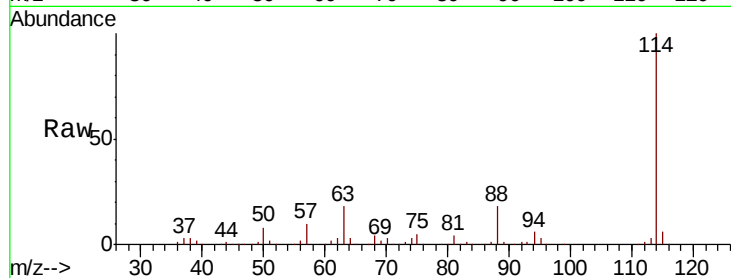




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 7.44 min Scan# 601
Delta R.T. -0.01 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

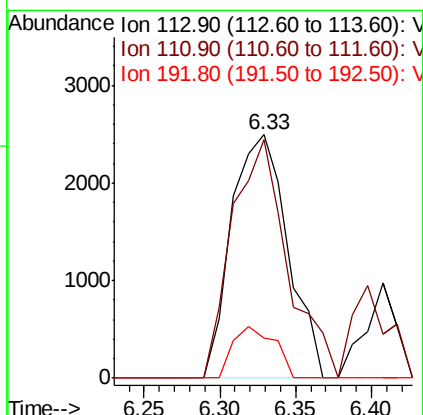
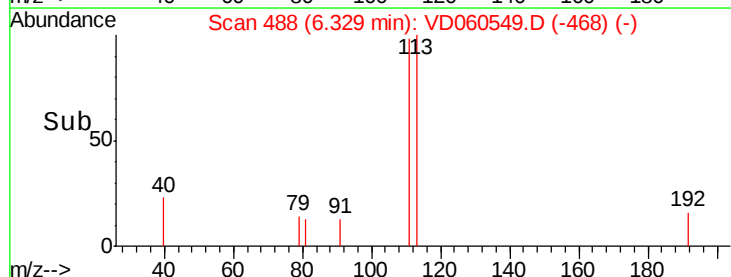
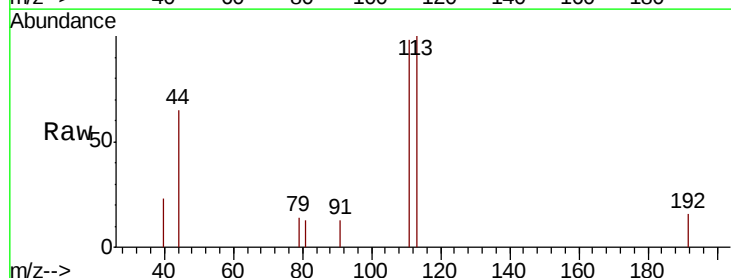
Instrument :
MSVOA_D
ClientSampleId :
RBR-200031

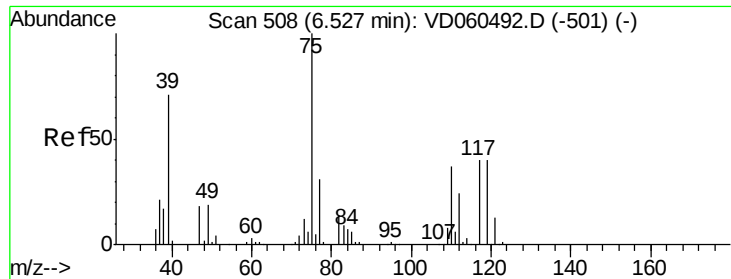
Tot Ion:114 Resp: 1548257
Ion Ratio Lower Upper
114 100
63 17.9 0.0 34.2
88 18.2 0.0 35.0



#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 488
Delta R.T. -0.00 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Tgt Ion:113 Resp: 6430
Ion Ratio Lower Upper
113 100
111 98.1 80.2 120.4
192 16.4 16.6 24.8#





#36

1,1-Dichloropropene

Concen: 4.786 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

Instrument :

MSVOA_D

ClientSampleId :

RBR-200031

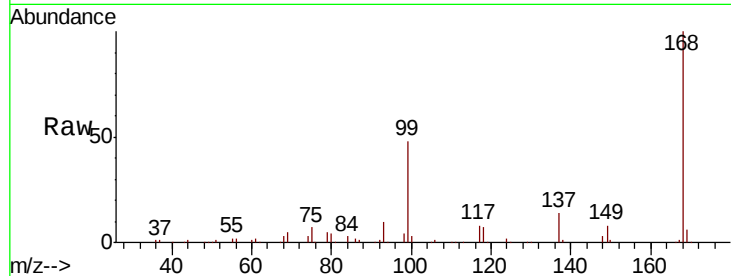
Tot Ion: 75 Resp: 72430

Ion Ratio Lower Upper

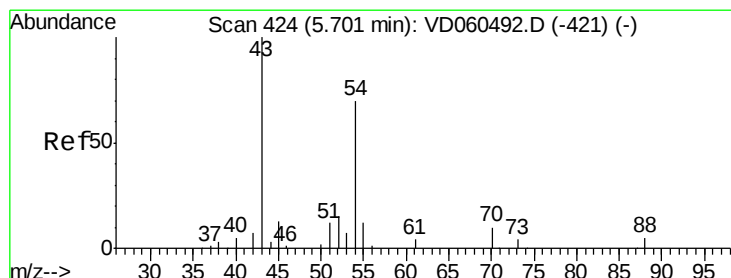
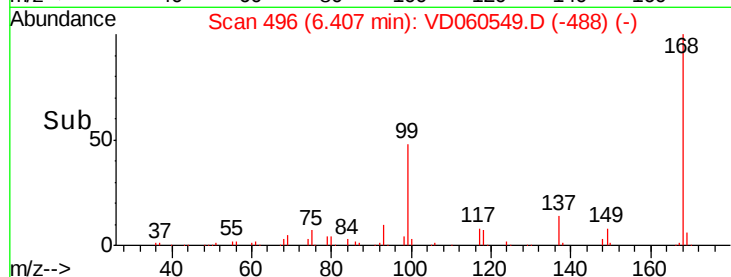
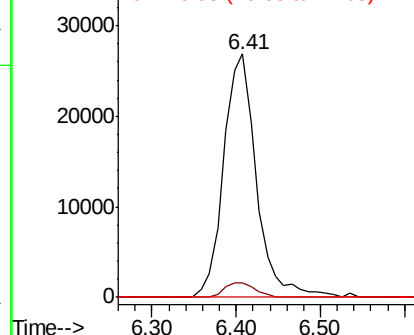
75 100

110 5.9 18.3 54.8#

77 0.0 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 6.758 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.08 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

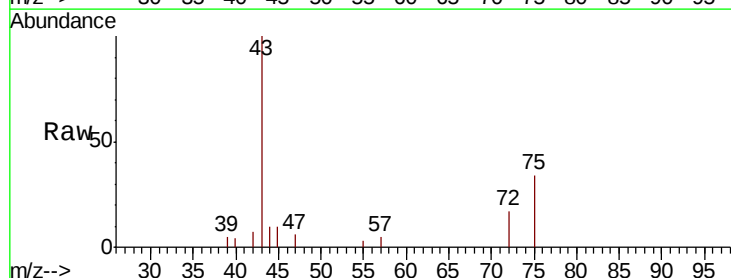
Tgt Ion: 43 Resp: 44356

Ion Ratio Lower Upper

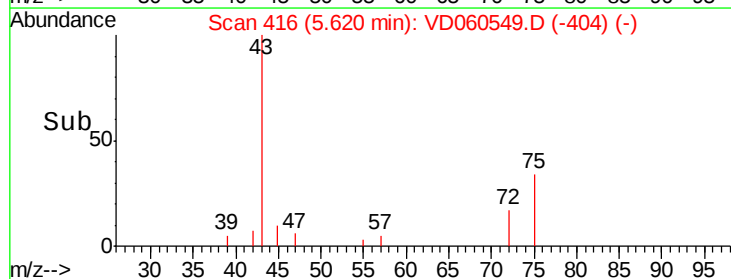
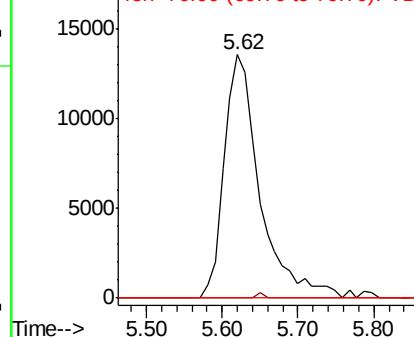
43 100

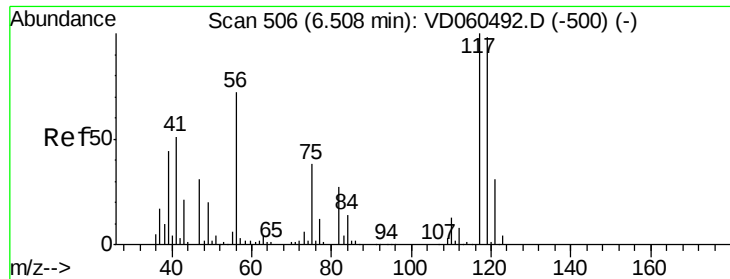
61 0.0 12.4 18.6#

70 0.0 5.4 8.0#



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

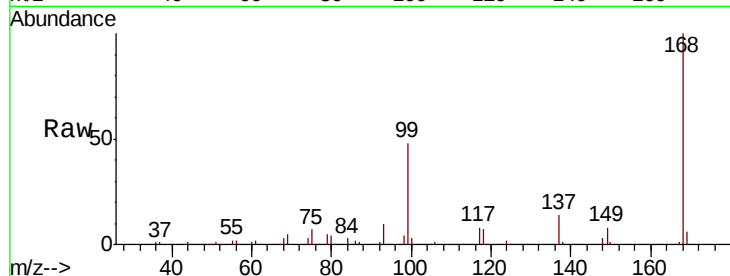




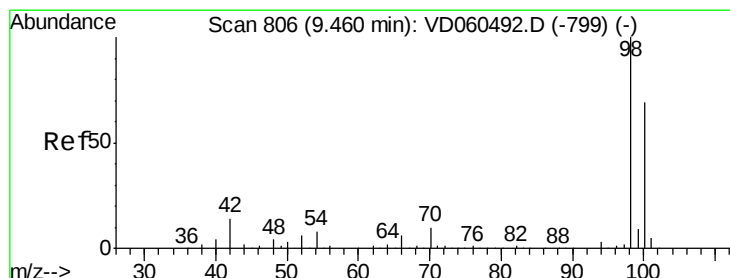
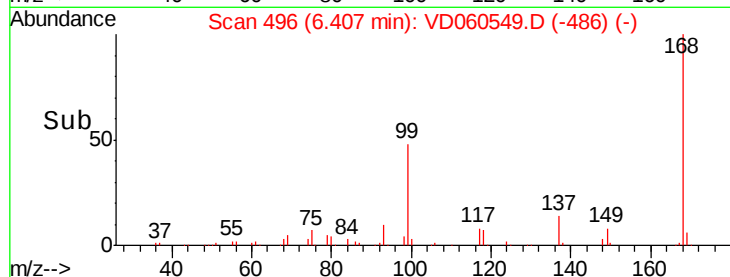
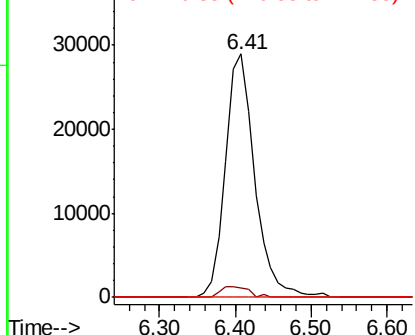
#38
Carbon Tetrachloride
Concen: 5.721 ug/l
RT: 6.41 min Scan# 496
Delta R.T. -0.10 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Instrument :
MSVOA_D
ClientSampleId :
RBR-200031

Tot Ion:117 Resp: 77734
Ion Ratio Lower Upper
117 100
119 3.8 76.8 115.2#
121 0.0 24.4 36.6#

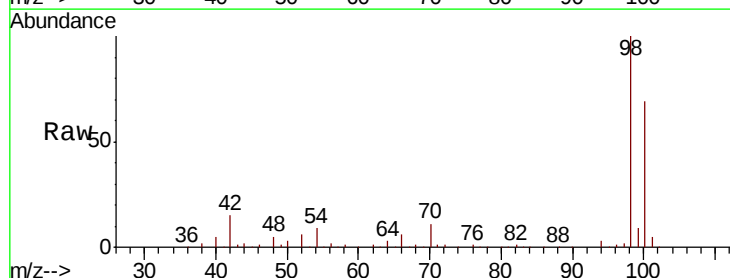


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

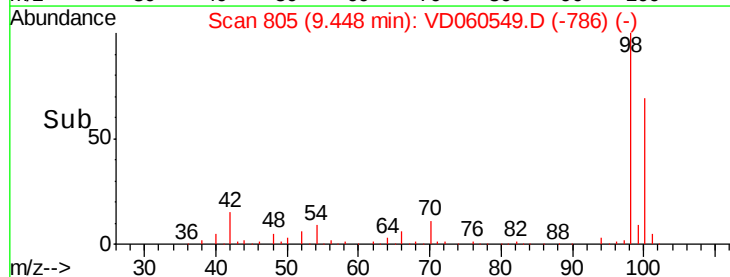
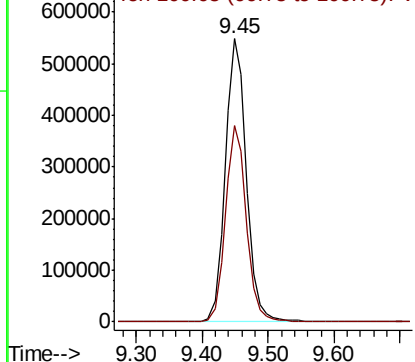


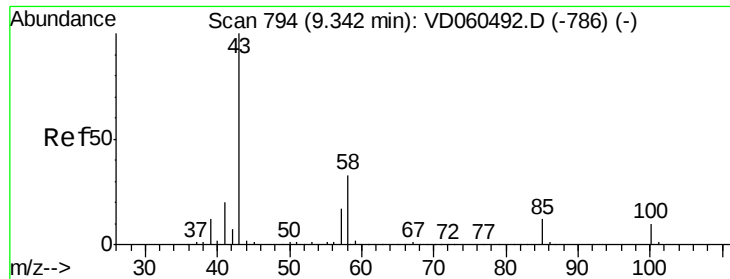
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. -0.01 min
Lab File: VD060549.D
Acq: 12 Dec 2018 16:13

Tgt Ion: 98 Resp: 1226038
Ion Ratio Lower Upper
98 100
100 69.3 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 4.062 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

Instrument :

MSVOA_D

ClientSampleId :

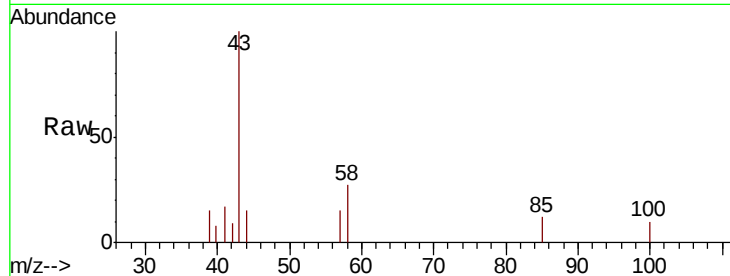
RBR-200031

Tot Ion: 43 Resp: 20472

Ion Ratio Lower Upper

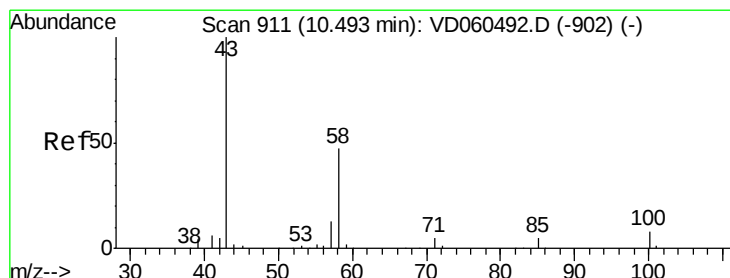
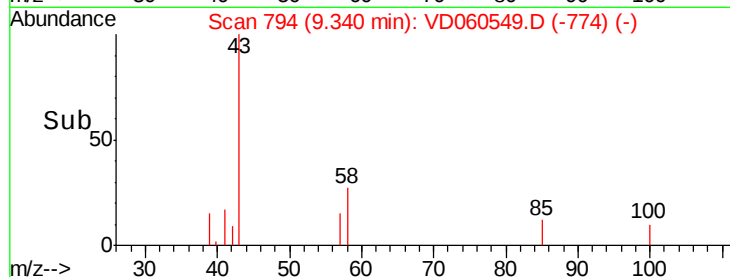
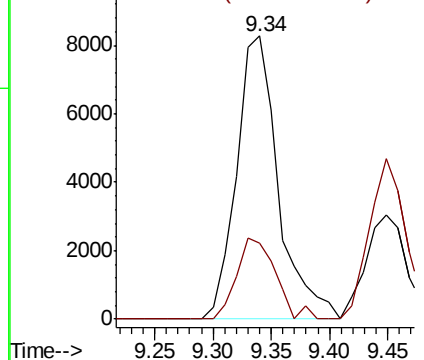
43 100

58 26.7 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#59

2-Hexanone

Concen: 10.469 ug/l

RT: 10.48 min Scan# 910

Delta R.T. -0.01 min

Lab File: VD060549.D

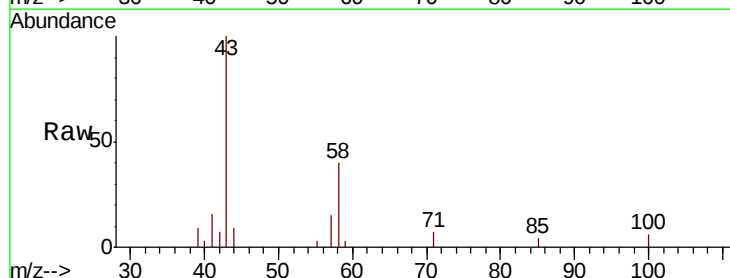
Acq: 12 Dec 2018 16:13

Tgt Ion: 43 Resp: 36879

Ion Ratio Lower Upper

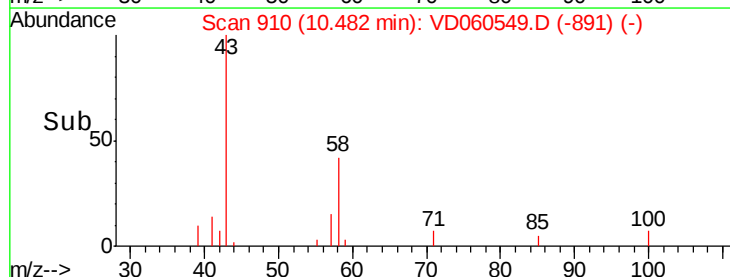
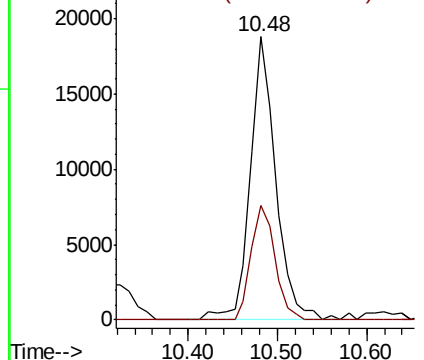
43 100

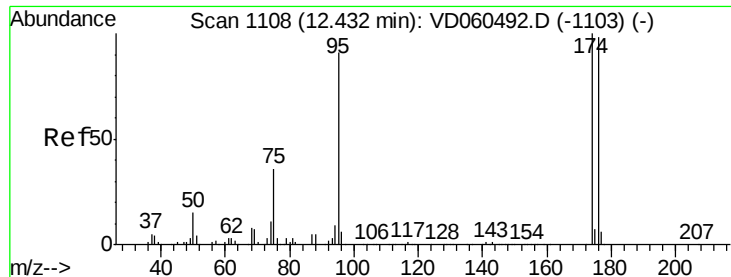
58 40.5 23.4 70.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

Instrument :

MSVOA_D

ClientSampleId :

RBR-200031

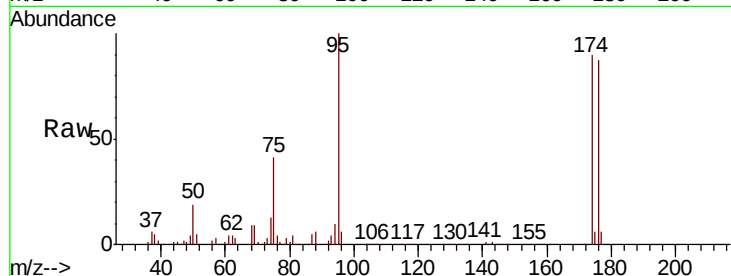
Tot Ion: 95 Resp: 527086

Ion Ratio Lower Upper

95 100

174 90.2 0.0 219.4

176 86.9 0.0 214.6



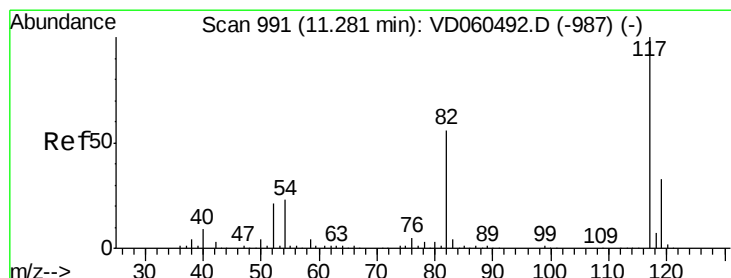
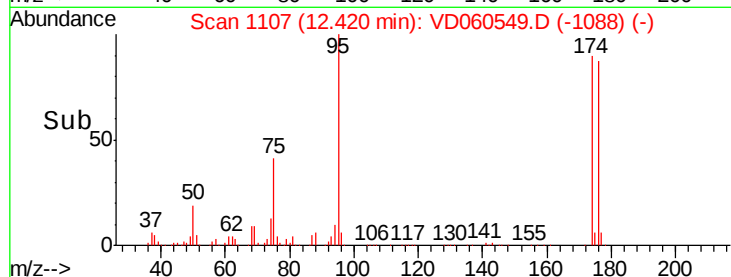
Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

12.42

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 991

Delta R.T. -0.00 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

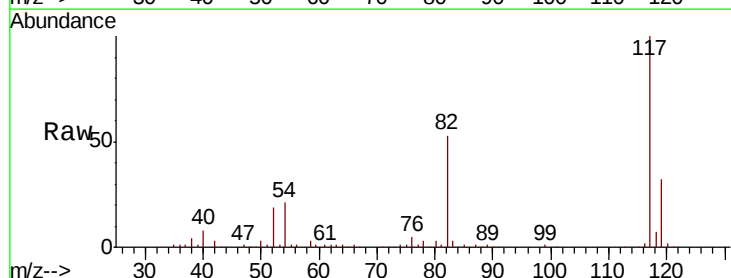
Tgt Ion: 117 Resp: 1372682

Ion Ratio Lower Upper

117 100

82 53.2 45.2 67.8

119 32.3 26.1 39.1



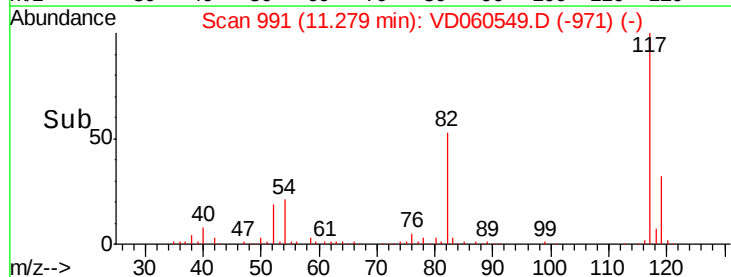
Abundance Ion 116.95 (116.65 to 117.65): V

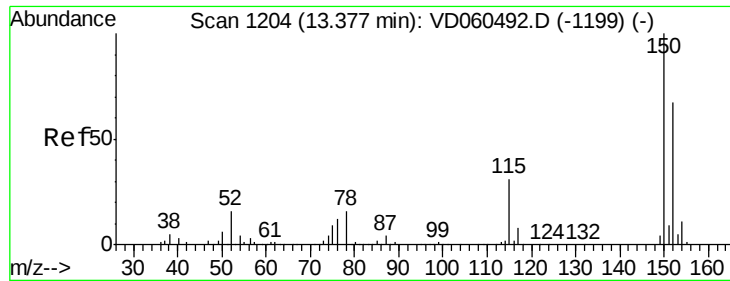
Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

11.28

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

Instrument :

MSVOA_D

ClientSampleId :

RBR-200031

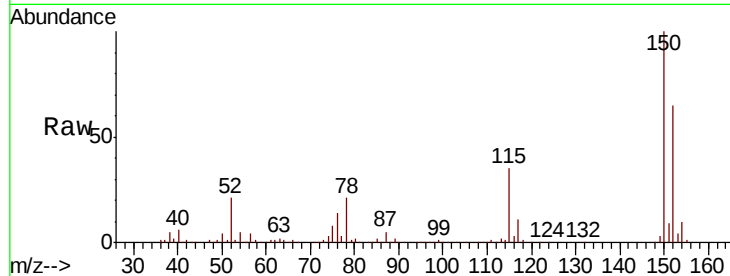
Tot Ion:152 Resp: 703610

Ion Ratio Lower Upper

152 100

115 53.4 24.6 74.0

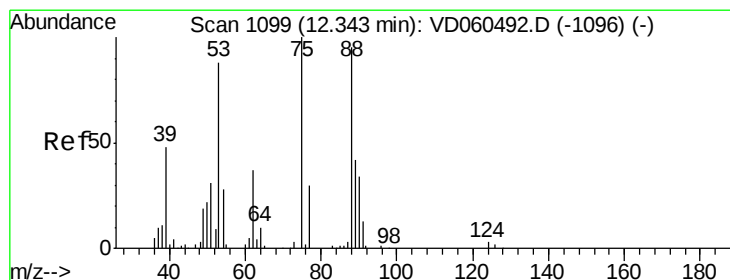
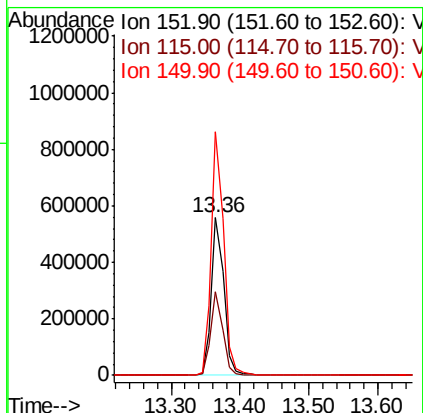
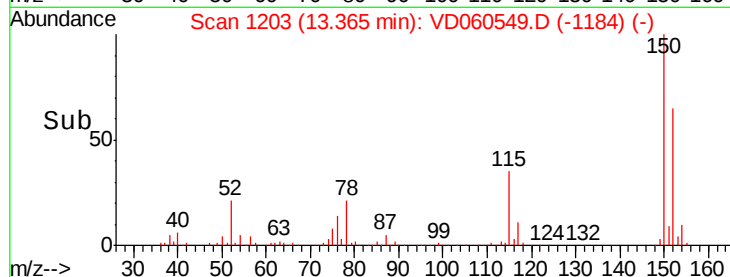
150 154.6 0.0 309.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 97.084 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060549.D

Acq: 12 Dec 2018 16:13

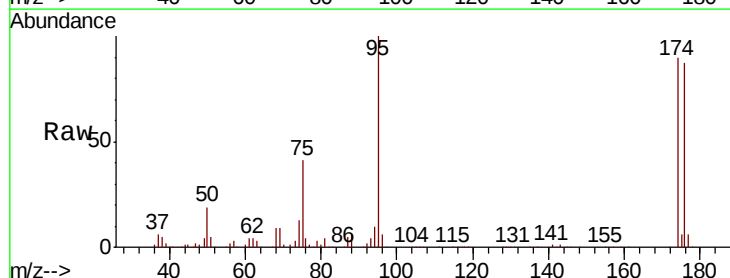
Tgt Ion: 75 Resp: 215868

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

