

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081319\
 Data File : VD063564.D
 Acq On : 14 Aug 2019 9:49
 Operator : JC/SY
 Sample : K4294-07RE
 Misc : 5.08g/5ml/MSVOA D/SOIL
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052RE

Quant Time: Aug 14 11:13:20 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	62666	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.23	114	124562	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	94806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	36995	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	58362	87.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	174.26%	
35) Dibromofluoromethane	6.93	113	50053	47.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.42%	
50) Toluene-d8	10.41	98	85577	37.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.20%	
62) 4-Bromofluorobenzene	13.56	95	34211	32.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.46%	

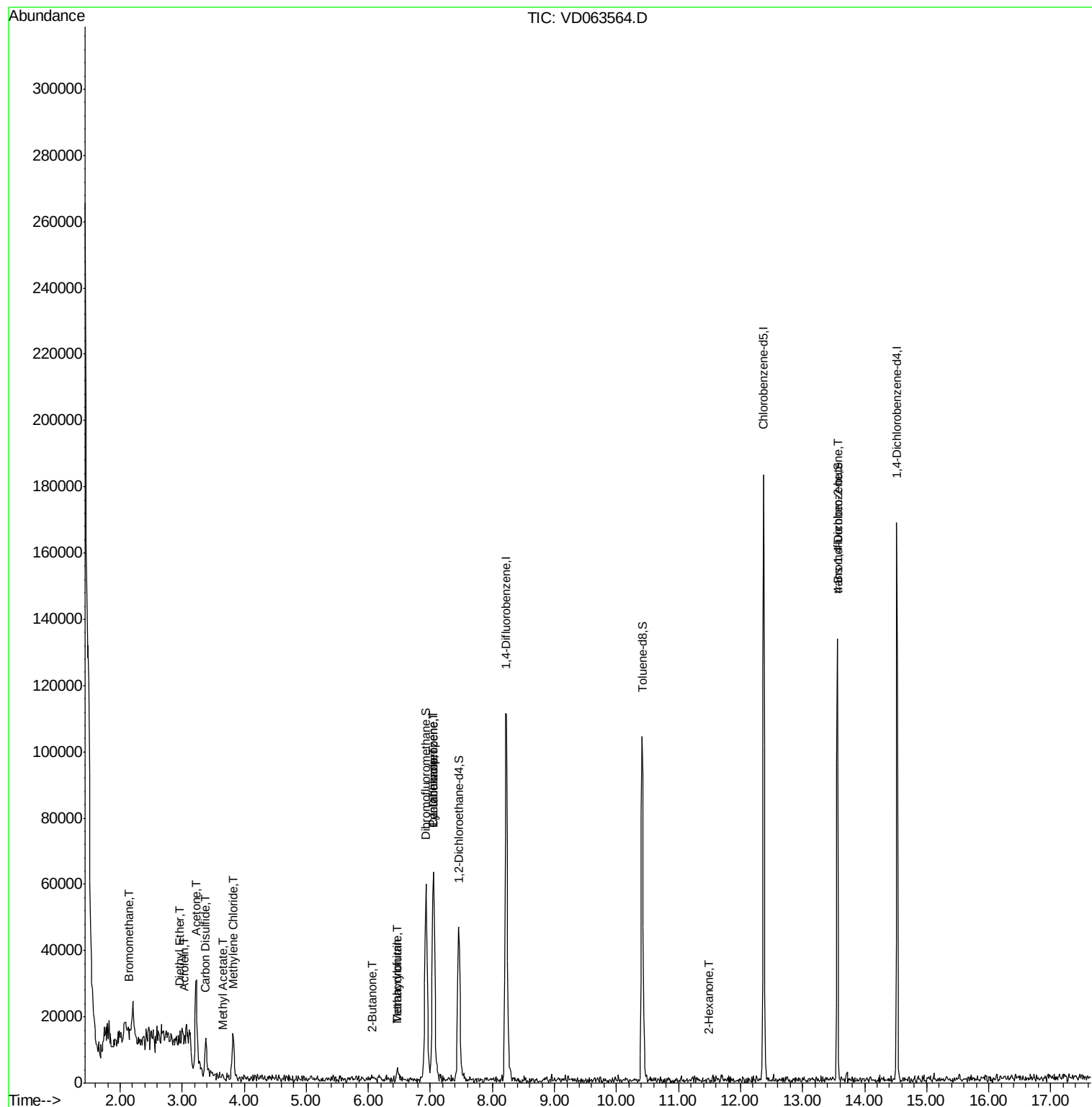
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	642	2.314	ug/l #	11
8) Diethyl Ether	2.96	74	178	1.093	ug/l	98
13) Acrolein	3.03	56	731	25.468	ug/l #	18
16) Acetone	3.23	43	52865	388.235	ug/l	97
17) Carbon Disulfide	3.37	76	21428	13.408	ug/l	96
18) Methyl Acetate	3.64	43	470	1.822	ug/l #	57
20) Methylene Chloride	3.82	84	8966	15.227	ug/l #	83
25) 2-Butanone	6.08	43	729	5.421	ug/l #	58
29) Tetrahydrofuran	6.46	42	652	10.404	ug/l #	1
31) Cyclohexane	7.05	56	736	1.217	ug/l #	12
36) 1,1-Dichloropropene	7.05	75	5398	4.902	ug/l #	42
41) Methacrylonitrile	6.47	41	1781	3.066	ug/l #	73
59) 2-Hexanone	11.50	43	321	1.043	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.56	75	16281	142.671	ug/l #	1

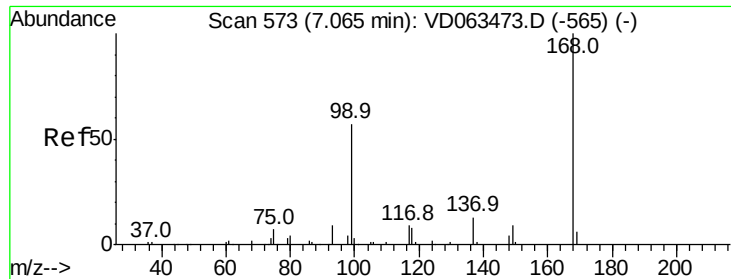
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

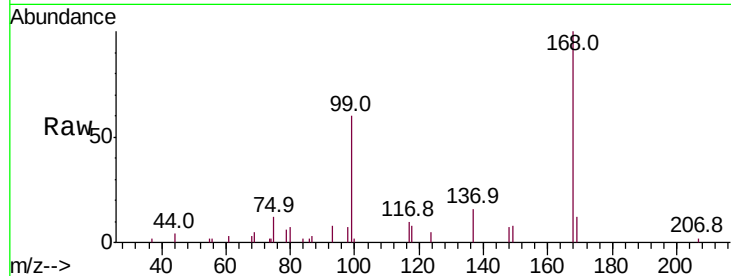
RBR-200052RE

Tot Ion:168 Resp: 62666

Ion Ratio Lower Upper

168 100

99 59.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

25000

20000

15000

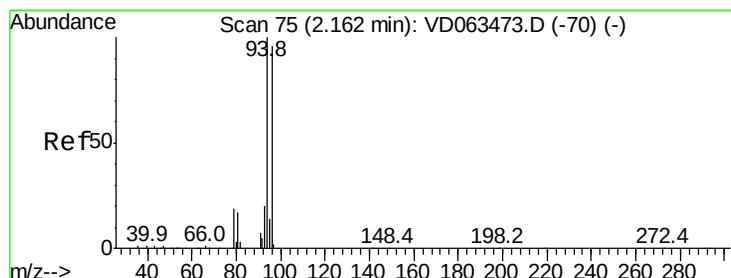
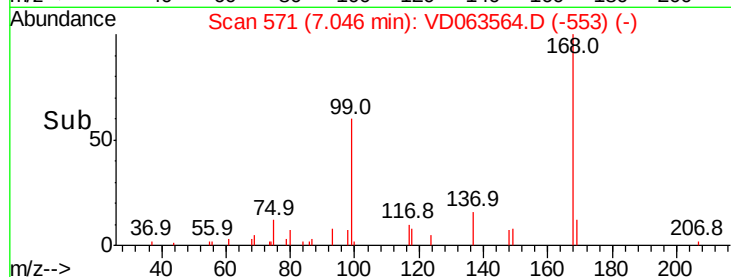
10000

5000

0

Time-->

7.00 7.10



#5

Bromomethane

Concen: 2.314 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.02 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

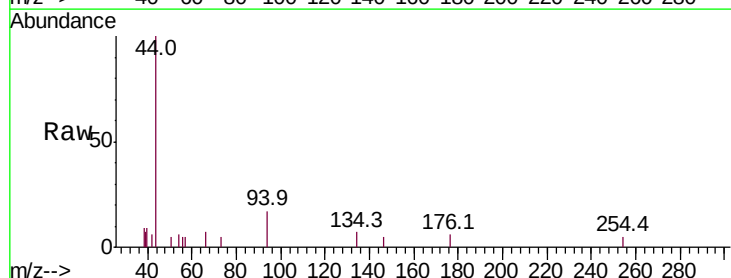
Tgt Ion: 94 Resp: 642

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.14

1500

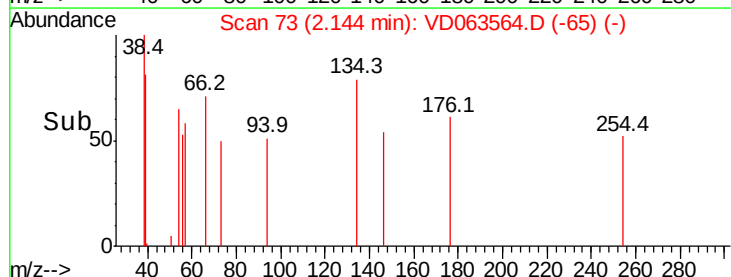
1000

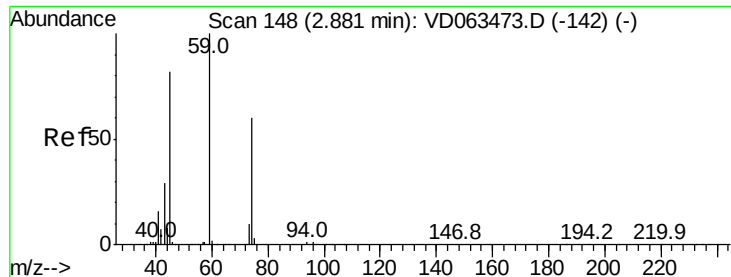
500

0

Time-->

2.12 2.14 2.16





#8

Diethyl Ether

Concen: 1.093 ug/l

RT: 2.96 min Scan# 156

Delta R.T. 0.08 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

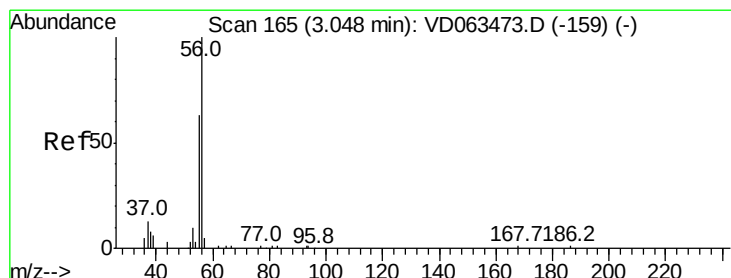
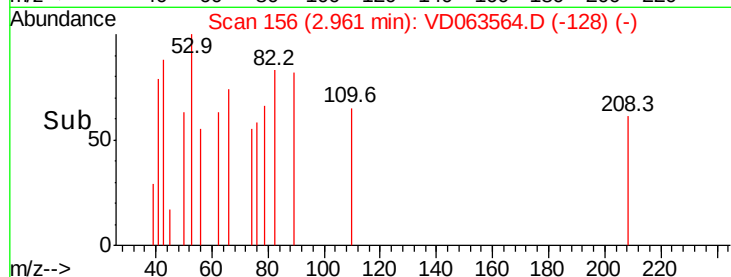
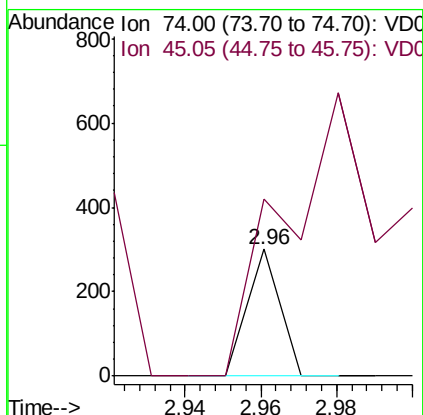
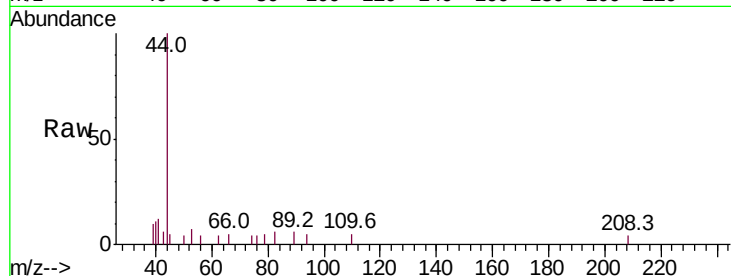
RBR-200052RE

Tot Ion: 74 Resp: 178

Ion Ratio Lower Upper

74 100

45 139.5 68.5 205.5



#13

Acrolein

Concen: 25.468 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD063564.D

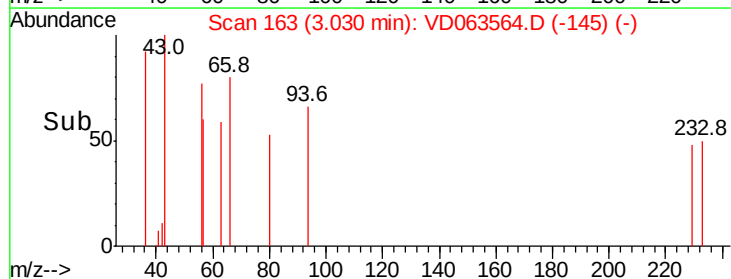
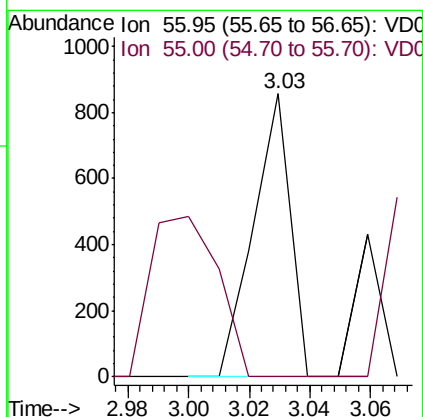
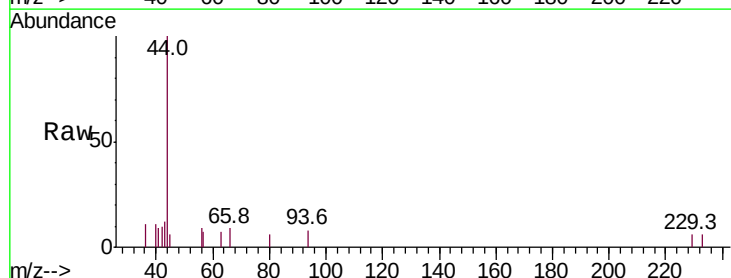
Acq: 14 Aug 2019 9:49

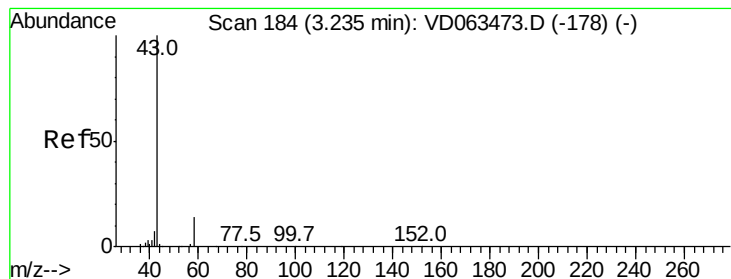
Tgt Ion: 56 Resp: 731

Ion Ratio Lower Upper

56 100

55 0.0 51.3 76.9#





#16

Acetone

Concen: 388.235 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

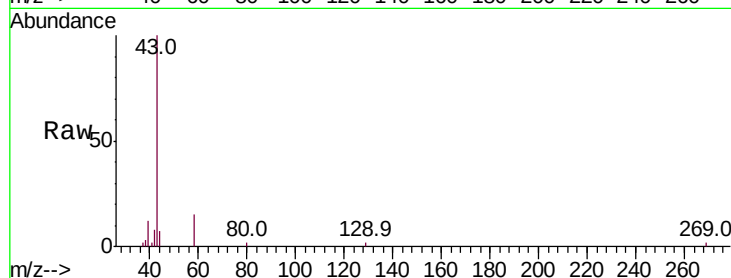
RBR-200052RE

Tot Ion: 43 Resp: 52865

Ion Ratio Lower Upper

43 100

58 15.4 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

20000

15000

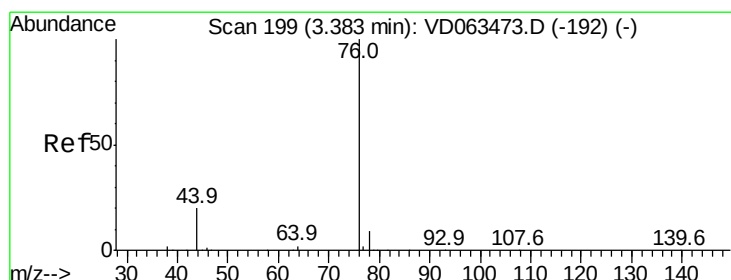
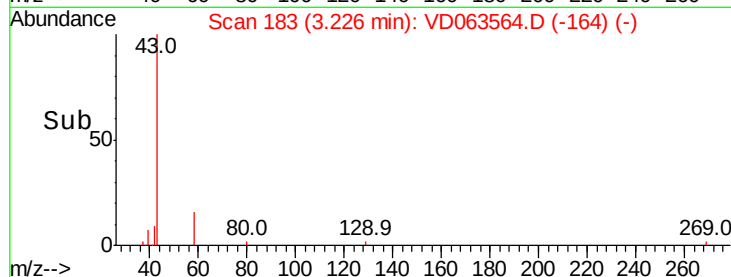
10000

5000

0

3.10 3.20 3.30 3.40

Time-->



#17

Carbon Disulfide

Concen: 13.408 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD063564.D

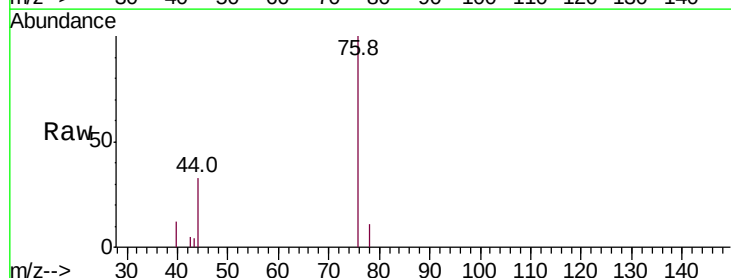
Acq: 14 Aug 2019 9:49

Tgt Ion: 76 Resp: 21428

Ion Ratio Lower Upper

76 100

78 10.6 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

10000

8000

6000

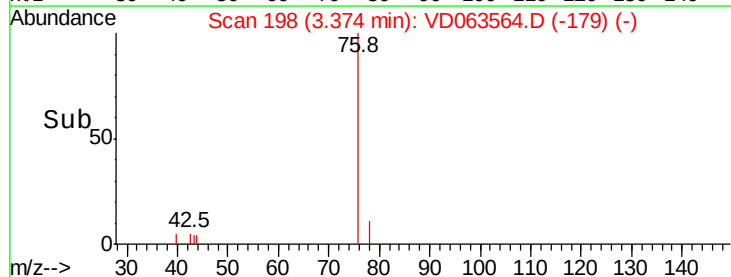
4000

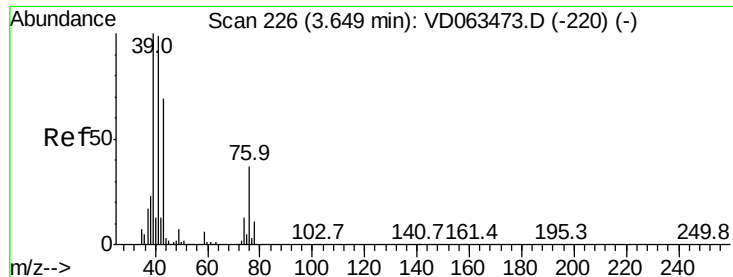
2000

0

3.30 3.40 3.50

Time-->

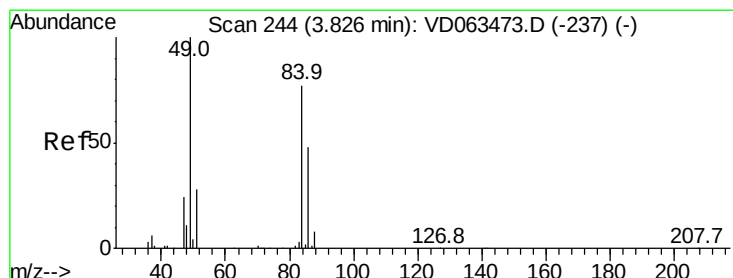
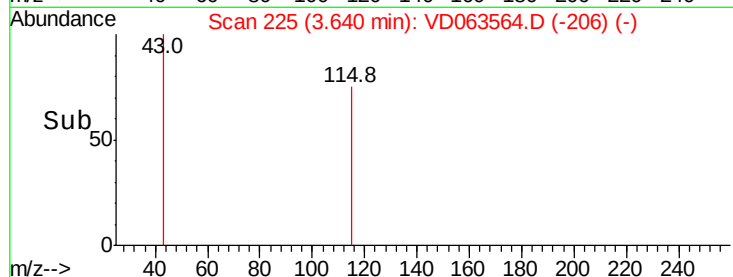
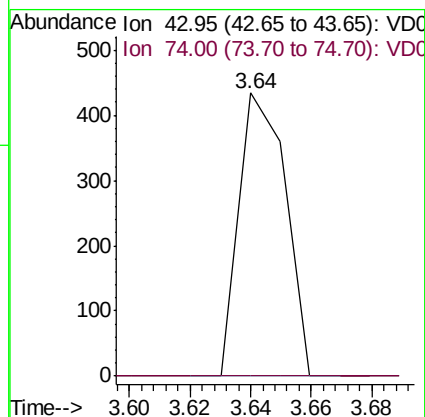
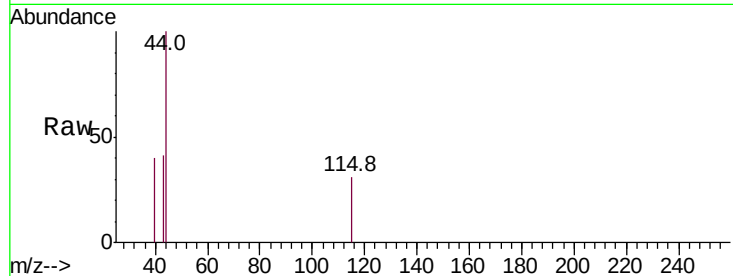




#18
Methvl Acetate
Concen: 1.822 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.01 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

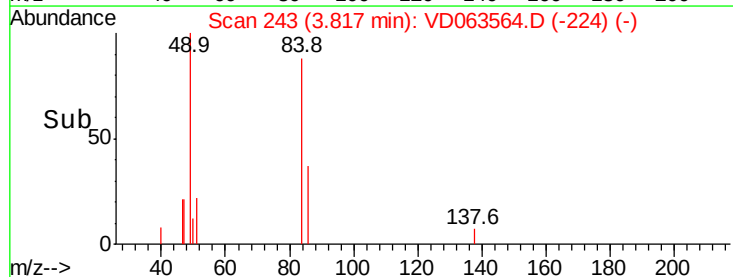
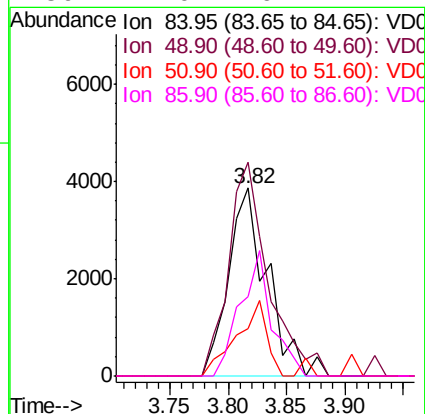
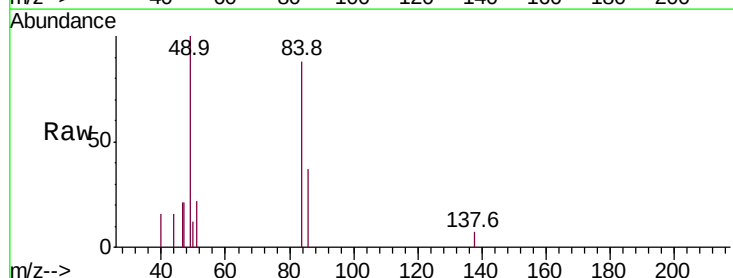
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052RE

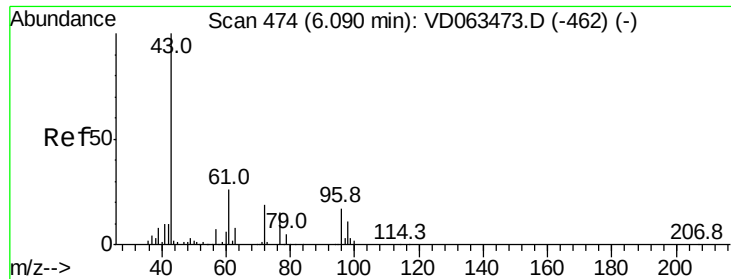
Tot Ion: 43 Resp: 470
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 15.227 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

Tgt Ion: 84 Resp: 8966
Ion Ratio Lower Upper
84 100
49 113.9 103.4 155.2
51 25.2 28.5 42.7#
86 42.0 49.4 74.2#





#25

2-Butanone

Concen: 5.421 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

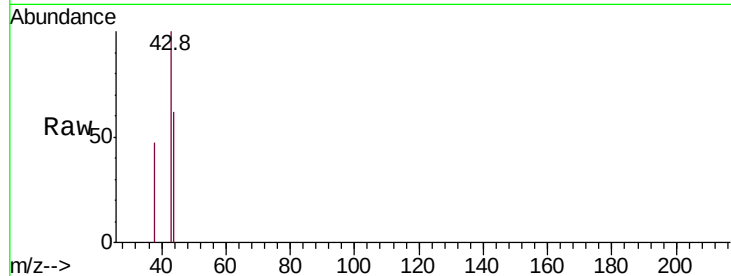
RBR-200052RE

Tot Ion: 43 Resp: 729

Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.08

800

600

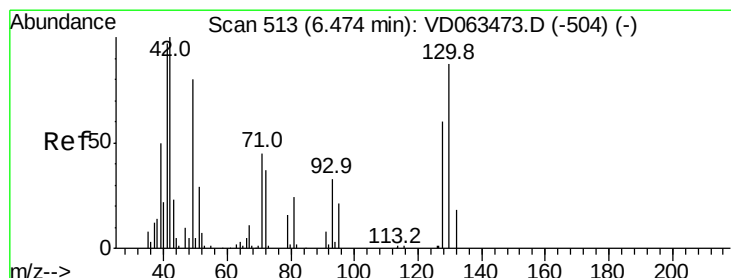
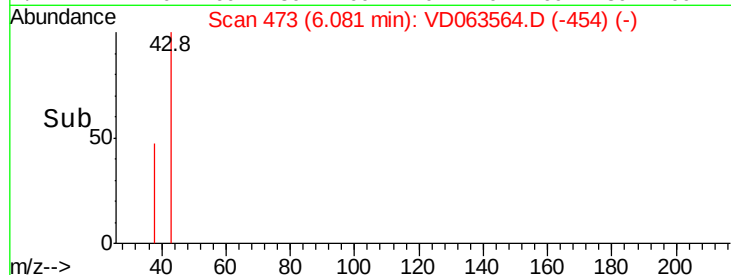
400

200

0

6.04 6.06 6.08 6.10

Time-->



#29

Tetrahydrofuran

Concen: 10.404 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.02 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

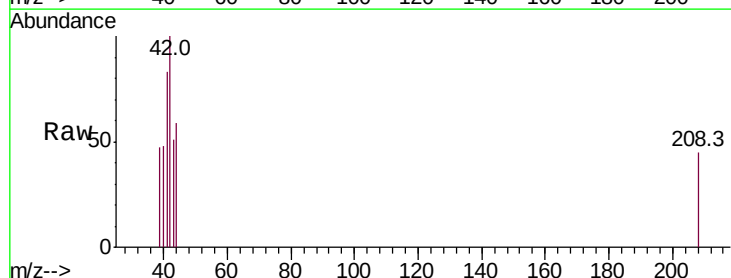
Tgt Ion: 42 Resp: 652

Ion Ratio Lower Upper

42 100

72 96.2 31.5 47.3#

71 141.9 33.8 50.8#



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

1200

1000

800

600

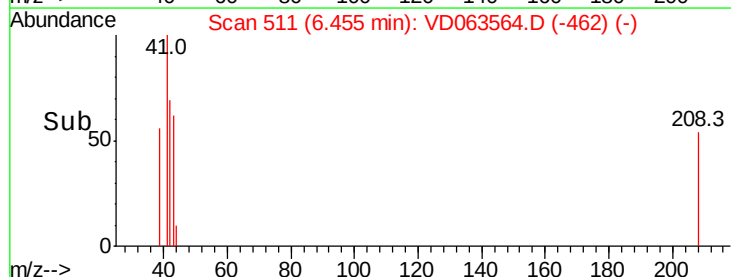
400

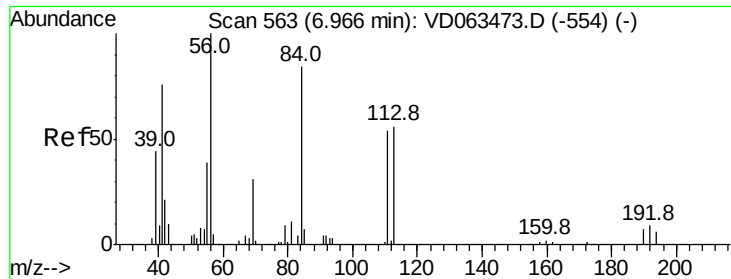
200

0

6.42 6.44 6.46

Time-->

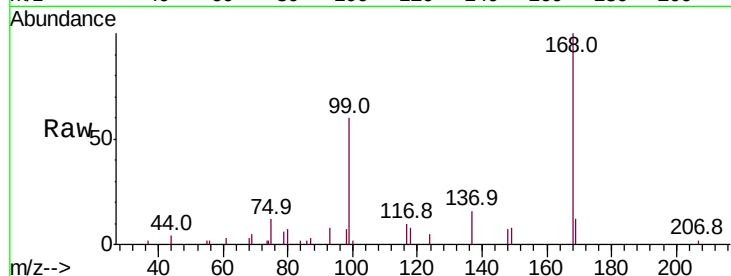




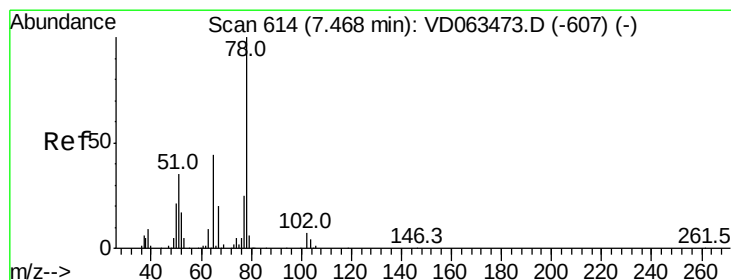
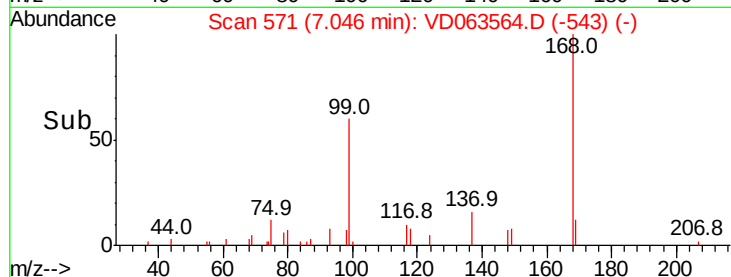
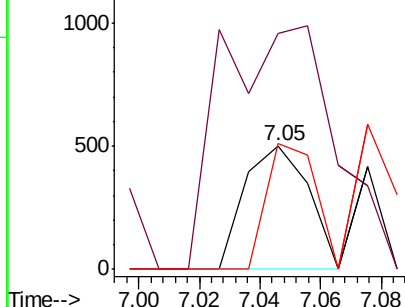
#31
Cyclohexane
Concen: 1.217 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.08 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

Instrument :
MSVOA_D
ClientSampleId :
RBR-200052RE

Tot Ion: 56 Resp: 736
Ion Ratio Lower Upper
56 100
69 190.9 25.0 37.6#
84 101.4 69.7 104.5

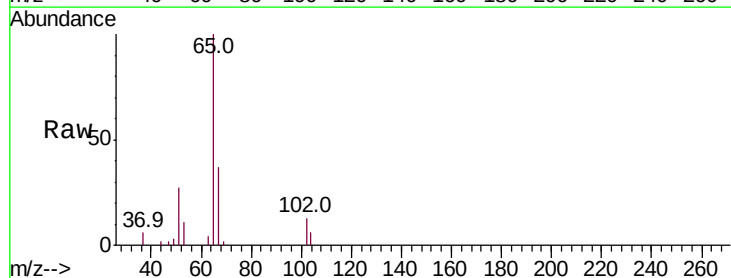


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

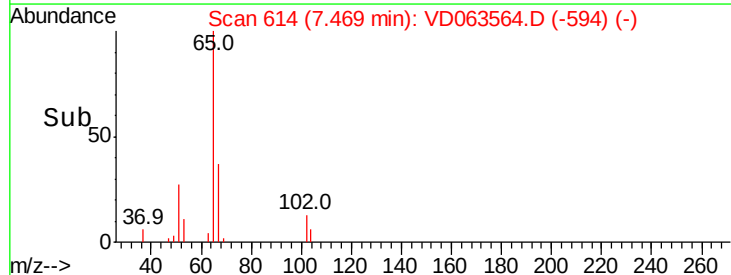
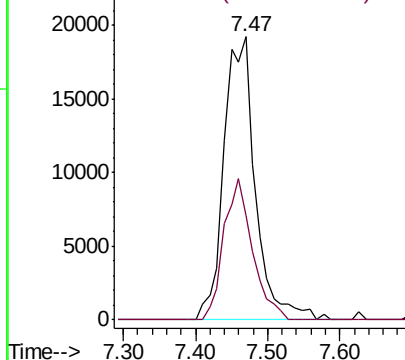


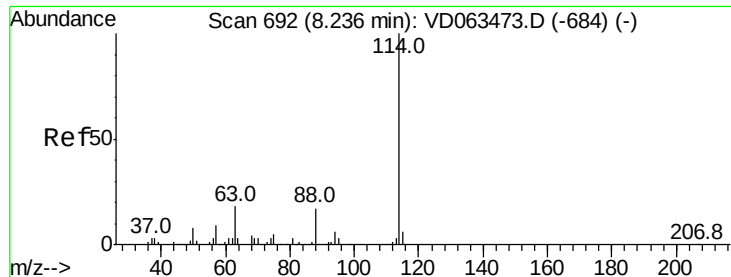
#33
1,2-Dichloroethane-d4
Concen: 87.127 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.00 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

Tgt Ion: 65 Resp: 58362
Ion Ratio Lower Upper
65 100
67 36.6 0.0 89.2



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: 8.23 min Scan# 691

Delta R.T. -0.01 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052RE

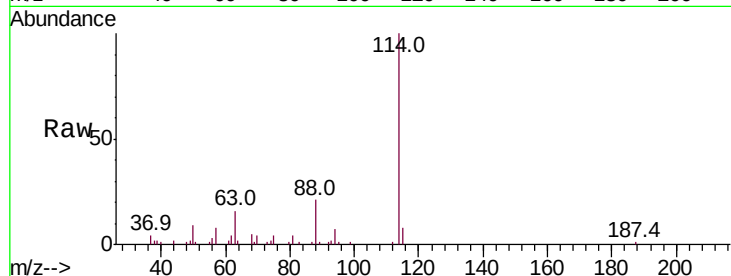
Tot Ion:114 Resp: 124562

Ion Ratio Lower Upper

114 100

63 16.2 0.0 36.2

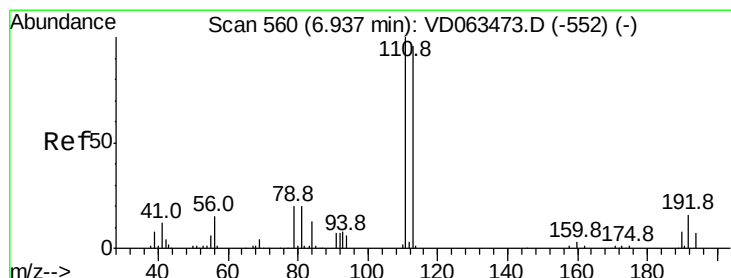
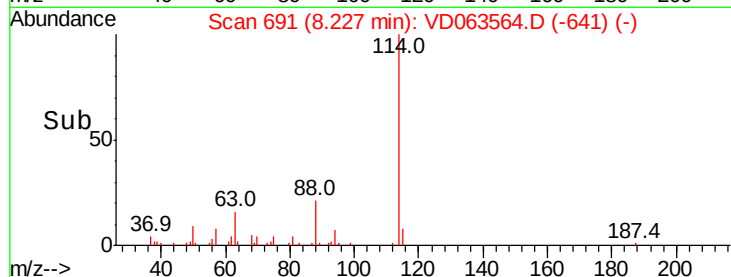
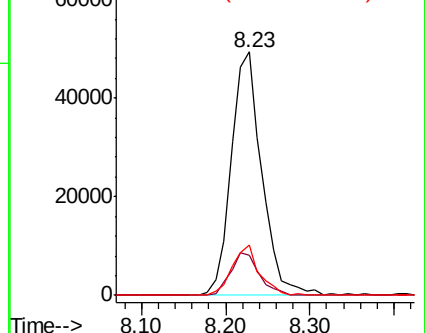
88 20.9 0.0 35.0



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: 47.712 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

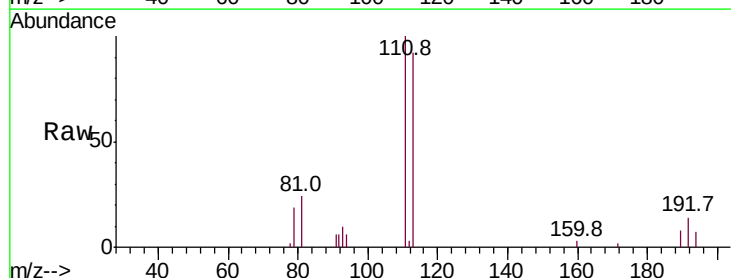
Tgt Ion:113 Resp: 50053

Ion Ratio Lower Upper

113 100

111 108.3 83.1 124.7

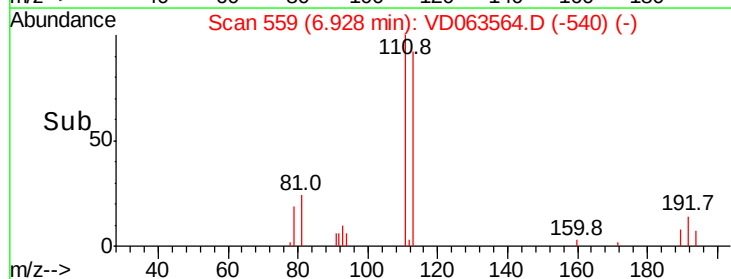
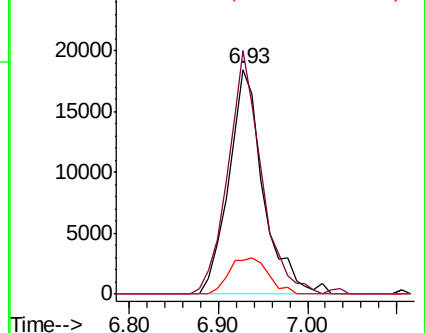
192 15.1 13.1 19.7

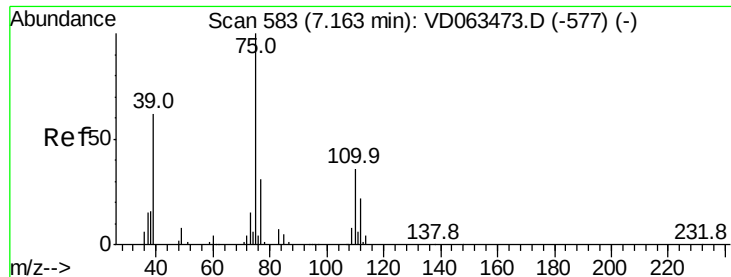


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

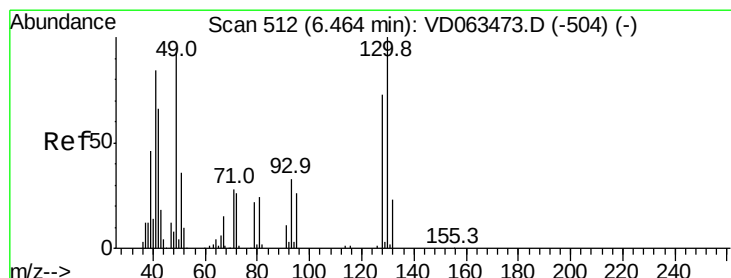
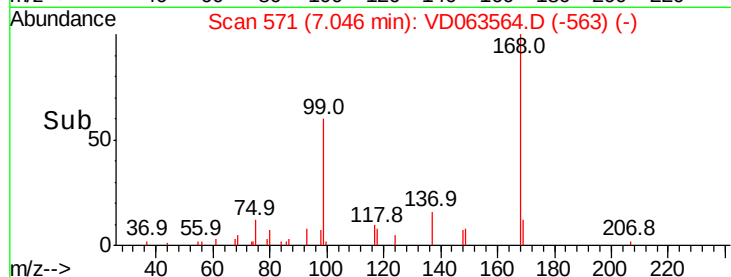
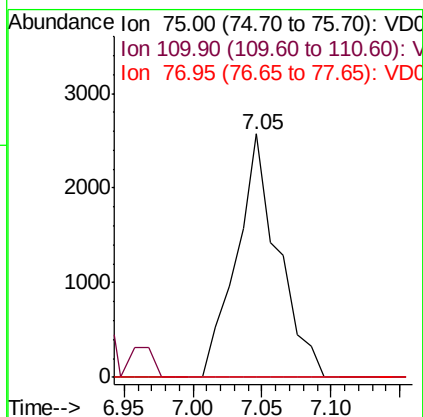
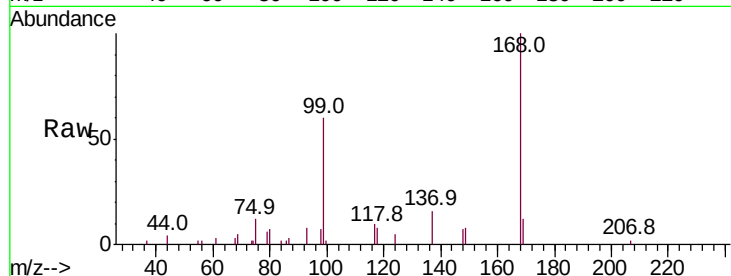




#36
 1,1-Dichloropropene
 Concen: 4.902 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.12 min
 Lab File: VD063564.D
 Acq: 14 Aug 2019 9:49

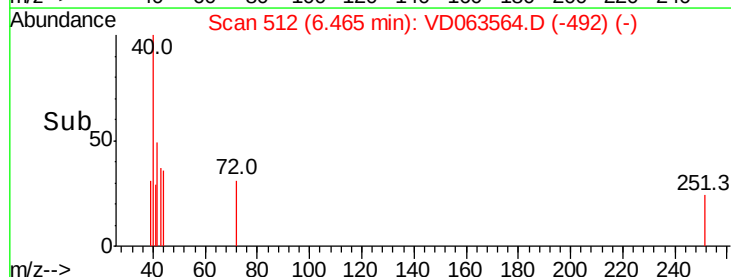
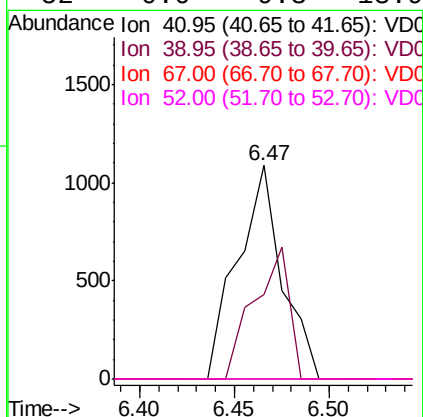
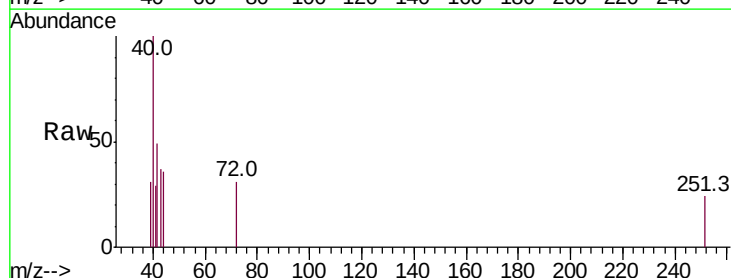
Instrument :
 MSVOA_D
 ClientSampleId :
 RBR-200052RE

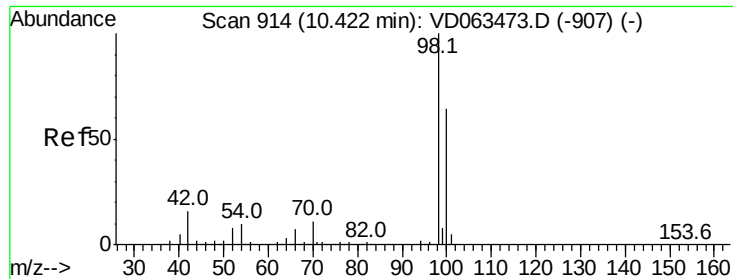
Tot Ion: 75 Resp: 5398
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.8#
 77 0.0 24.3 36.5#



#41
 Methacrylonitrile
 Concen: 3.066 ug/l
 RT: 6.47 min Scan# 512
 Delta R.T. 0.00 min
 Lab File: VD063564.D
 Acq: 14 Aug 2019 9:49

Tgt Ion: 41 Resp: 1781
 Ion Ratio Lower Upper
 41 100
 39 39.5 44.6 66.8#
 67 0.0 14.4 21.6#
 52 0.0 9.3 13.9#

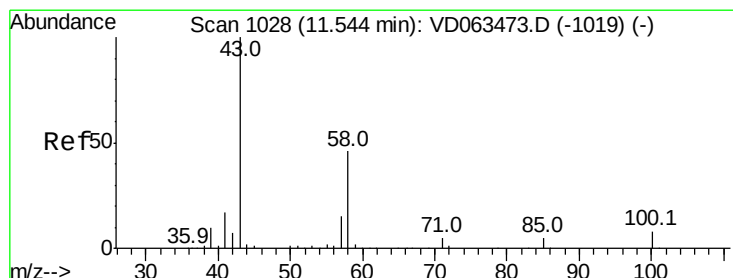
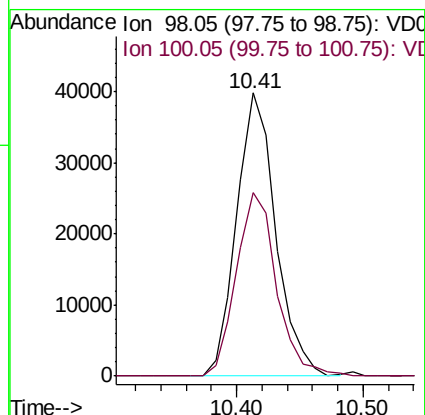
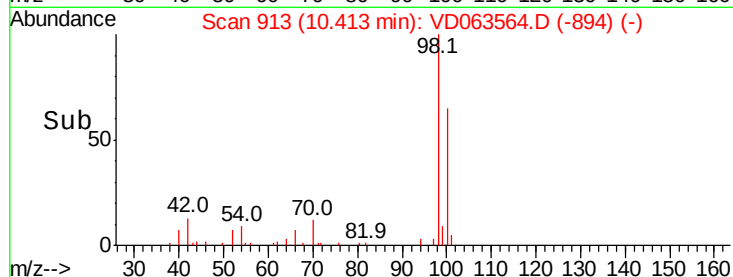
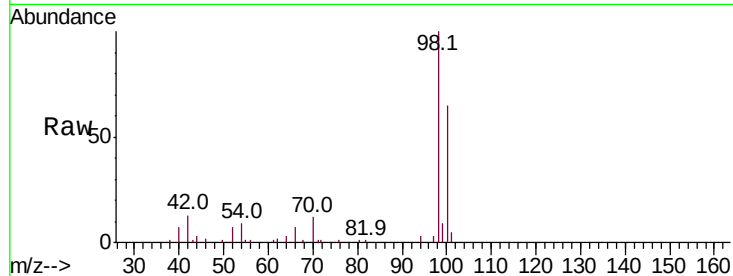




#50
Toluene-d8
Concen: 37.104 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

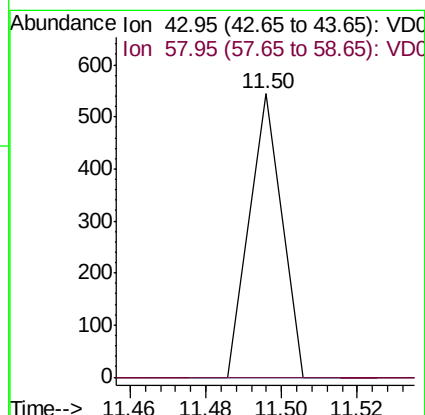
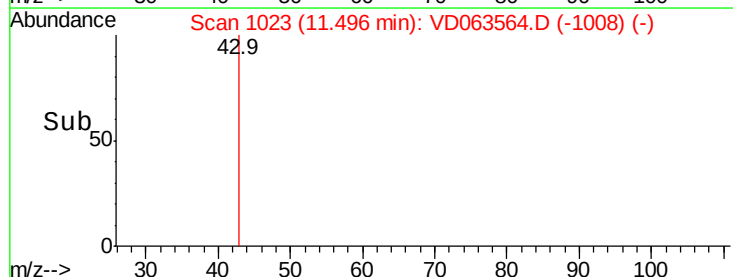
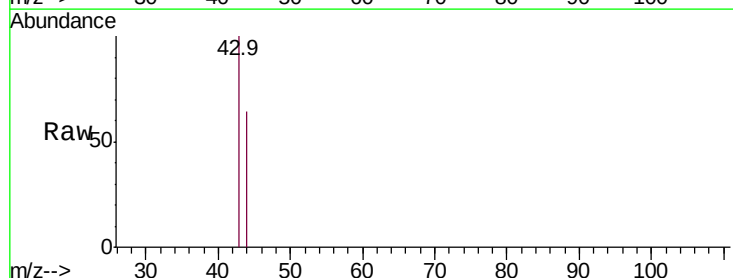
Instrument :
MSVOA_D
ClientSampleId :
RBR-200052RE

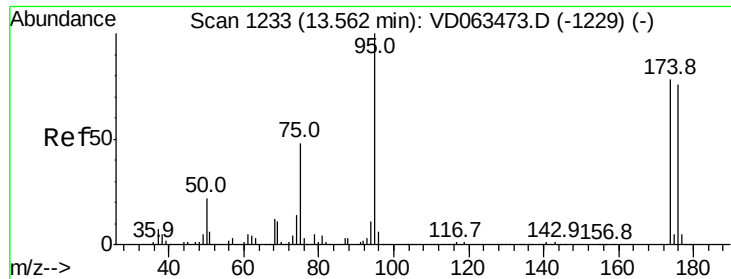
Tot Ion: 98 Resp: 85577
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#59
2-Hexanone
Concen: 1.043 ug/l
RT: 11.50 min Scan# 1023
Delta R.T. -0.05 min
Lab File: VD063564.D
Acq: 14 Aug 2019 9:49

Tgt Ion: 43 Resp: 321
Ion Ratio Lower Upper
43 100
58 0.0 23.1 69.2#





#62

4-Bromofluorobenzene

Concen: 32.726 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

Instrument :

MSVOA_D

ClientSampleId :

RBR-200052RE

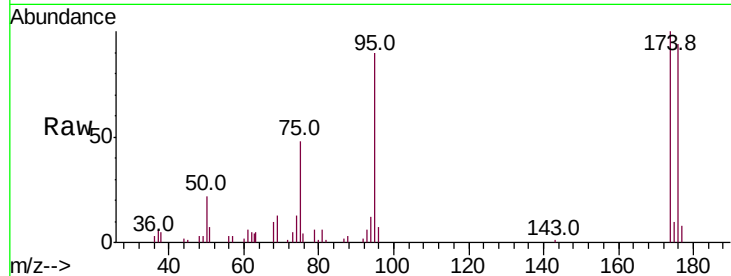
Tot Ion: 95 Resp: 34211

Ion Ratio Lower Upper

95 100

174 111.0 0.0 155.4

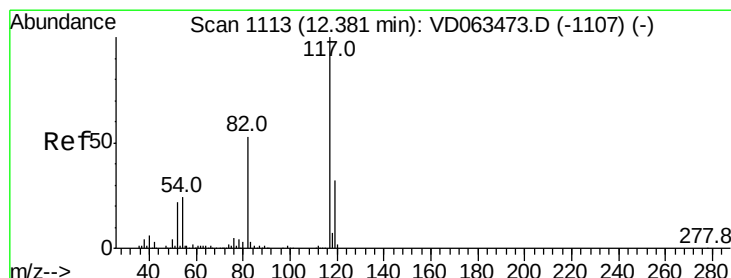
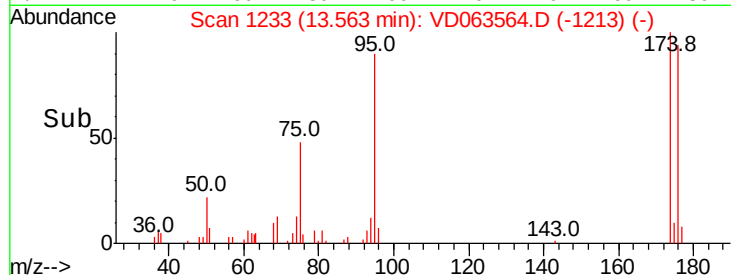
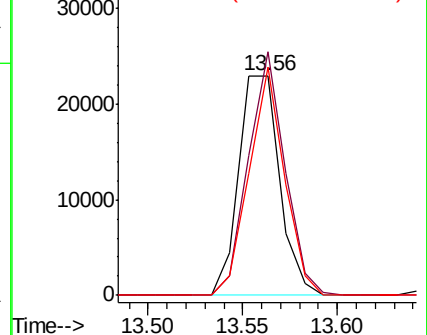
176 103.9 0.0 152.4



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: 12.37 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VD063564.D

Acq: 14 Aug 2019 9:49

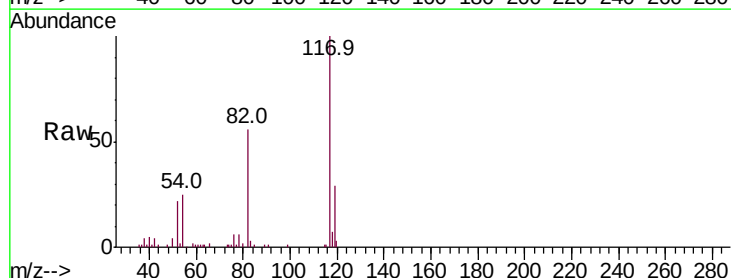
Tgt Ion: 117 Resp: 94806

Ion Ratio Lower Upper

117 100

82 55.9 42.0 63.0

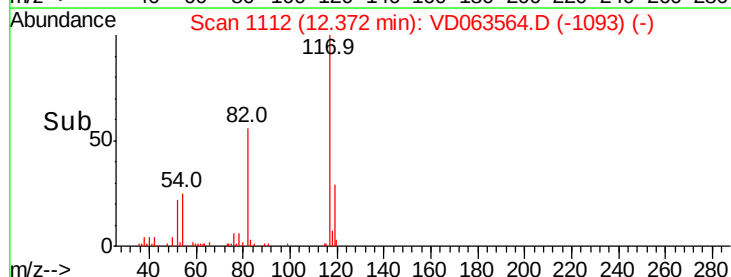
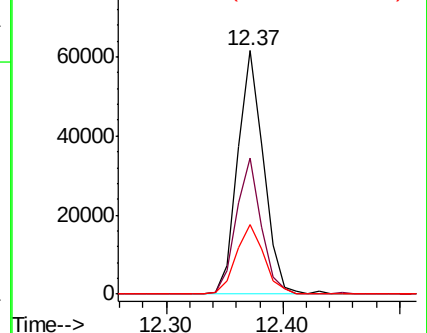
119 28.5 25.4 38.0

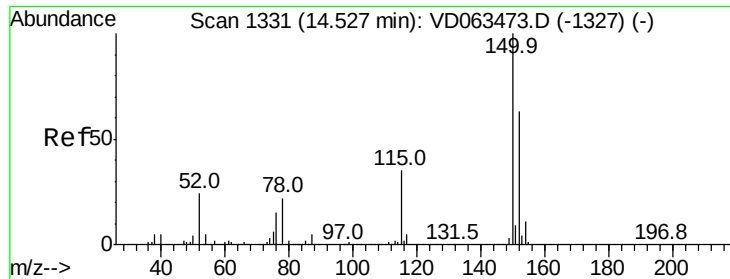


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

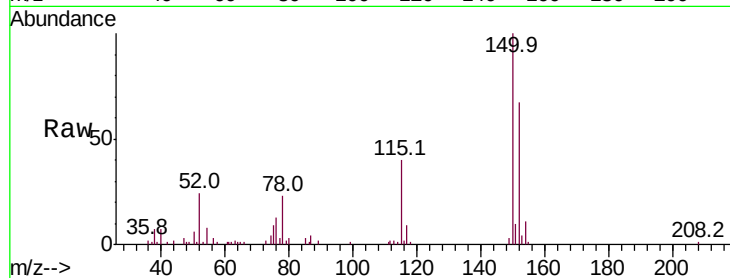




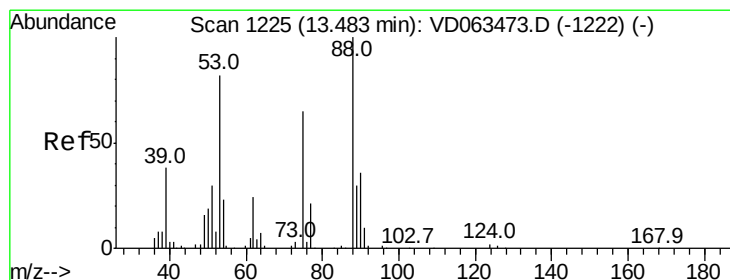
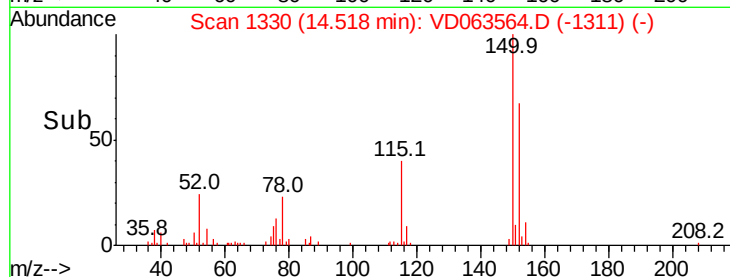
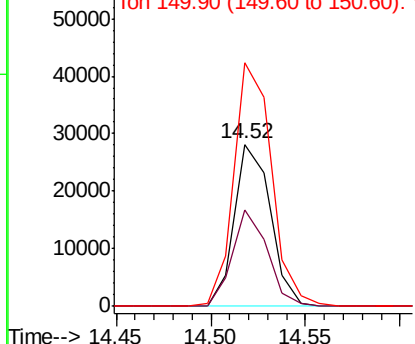
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD063564.D
 Acq: 14 Aug 2019 9:49

Instrument :
 MSVOA_D
 ClientSampleID :
 RBR-200052RE

Tot Ion:152 Resp: 36995
 Ion Ratio Lower Upper
 152 100
 115 59.4 30.9 92.7
 150 150.3 0.0 318.6

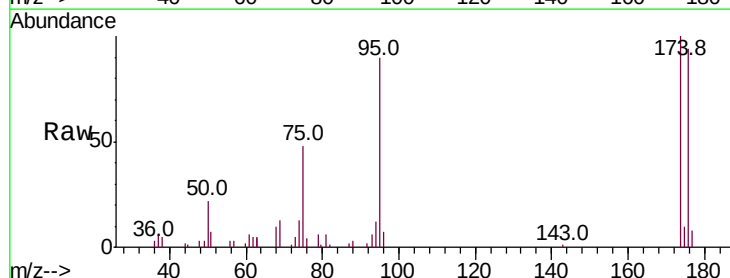


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V



#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.671 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.08 min
 Lab File: VD063564.D
 Acq: 14 Aug 2019 9:49

Tgt Ion: 75 Resp: 16281
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.0 151.4#
 89 0.0 37.0 55.6#



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

