

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052419\
 Data File : VD062532.D
 Acq On : 24 May 2019 15:21
 Operator : VA/AP
 Sample : k3019-04
 Misc : 5.29g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR200036

Quant Time: May 24 22:09:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	114487	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	151328	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	148642	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	80027	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	103512	84.46	ug/l	-0.02
Spiked Amount			Recovery	=	168.92%	
35) Dibromofluoromethane	6.92	113	88917	65.13	ug/l	-0.02
Spiked Amount			Recovery	=	130.26%	
50) Toluene-d8	10.41	98	151480	50.70	ug/l	-0.02
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	13.56	95	82347	63.01	ug/l	-0.01
Spiked Amount			Recovery	=	126.02%	

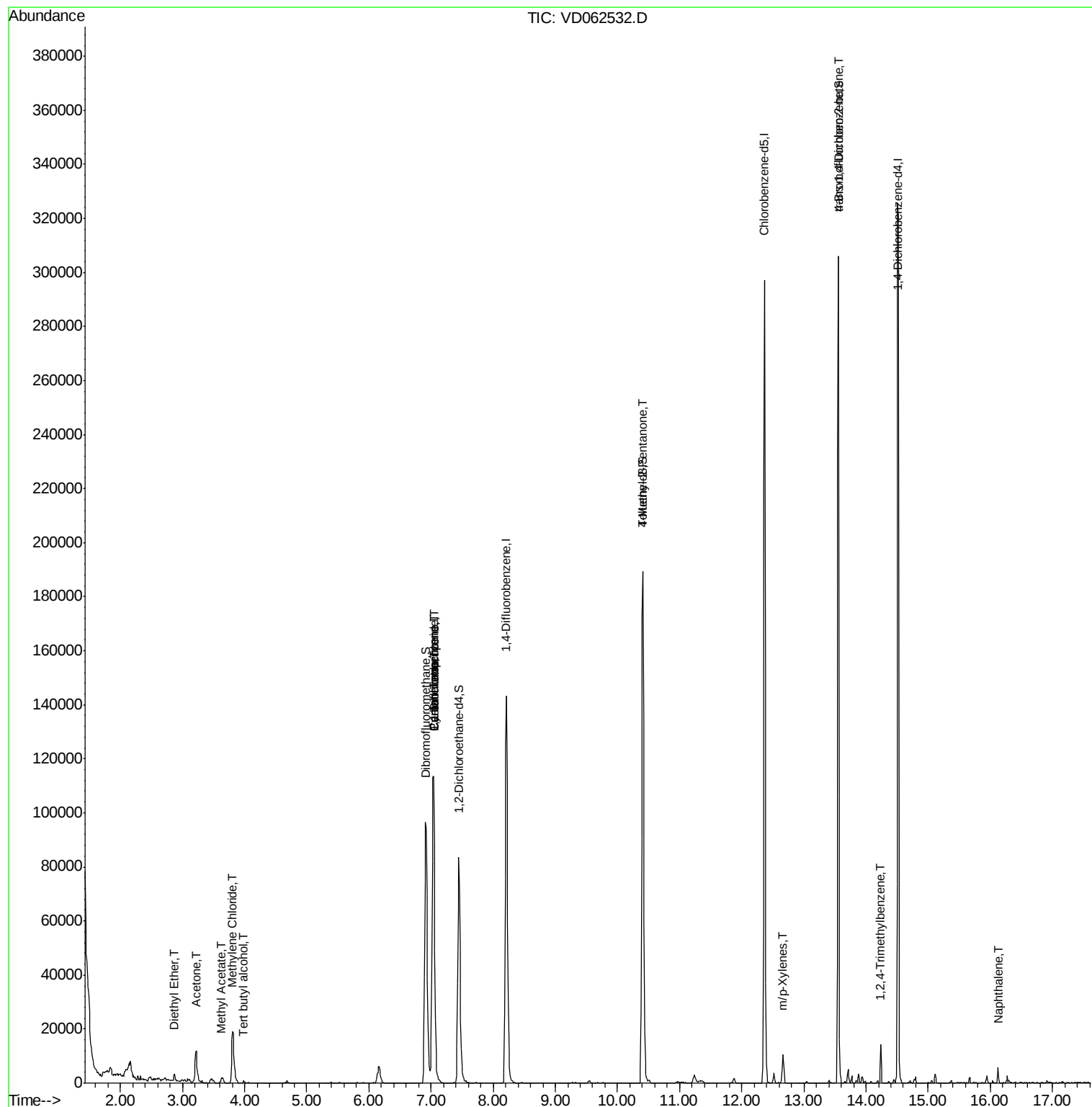
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	525	2.018	ug/l	94
11) Tert butyl alcohol	3.99	59	454	8.026	ug/l #	76
16) Acetone	3.21	43	23630	107.600	ug/l #	70
18) Methyl Acetate	3.63	43	4977	13.134	ug/l #	53
20) Methylene Chloride	3.81	84	13252	9.016	ug/l	93
31) Cyclohexane	7.04	56	1925	1.664	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	9283	6.416	ug/l #	40
38) Carbon Tetrachloride	7.03	117	12083	5.619	ug/l #	12
51) 4-Methyl-2-Pentanone	10.40	43	751	1.525	ug/l #	1
68) m/p-Xylenes	12.67	106	3355	1.898	ug/l	85
81) trans-1,4-Dichloro-2-buten	13.56	75	40524	152.434	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.23	105	6573	1.469	ug/l	87
95) Naphthalene	16.12	128	4706	2.036	ug/l #	94

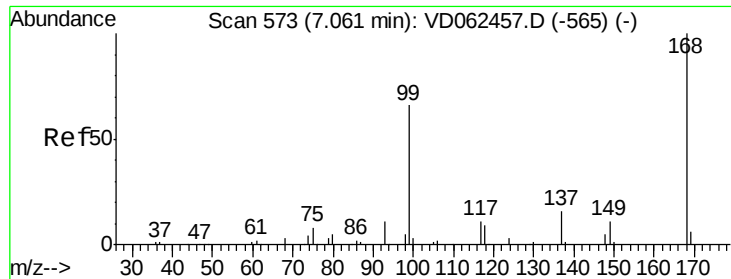
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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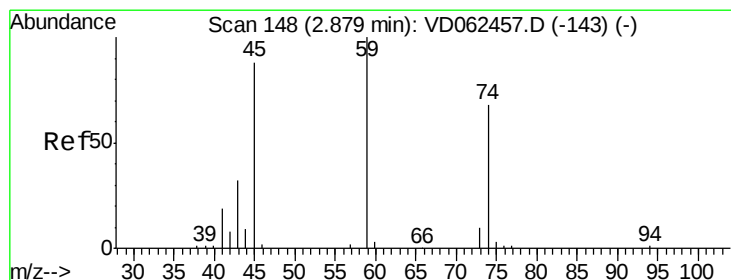
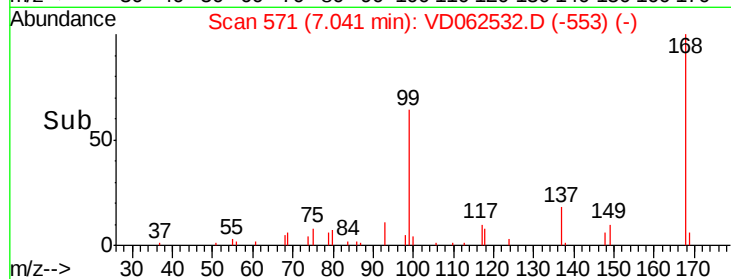
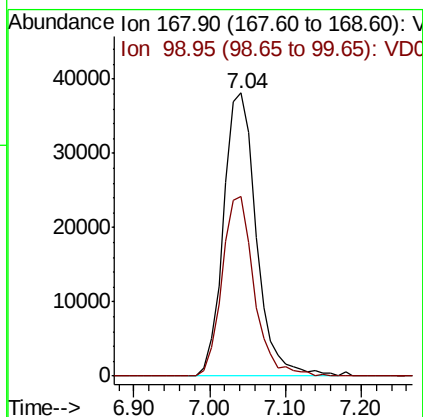
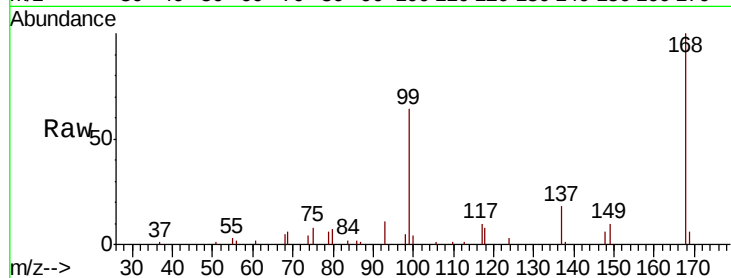




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.02 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

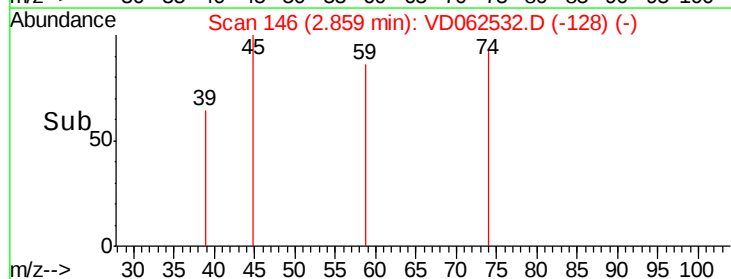
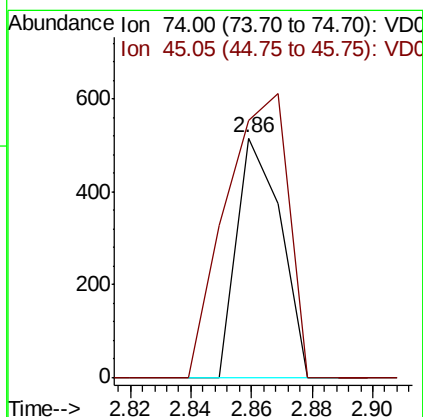
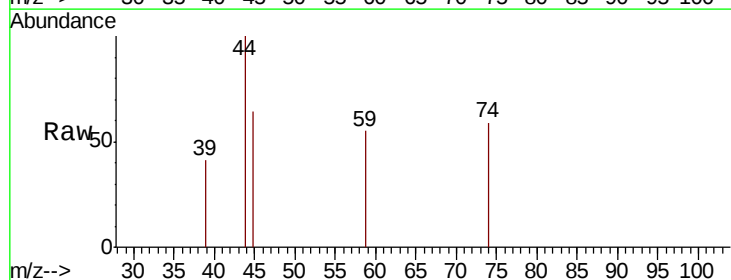
Instrument :
MSVOA_D
ClientSampleId :
RBR200036

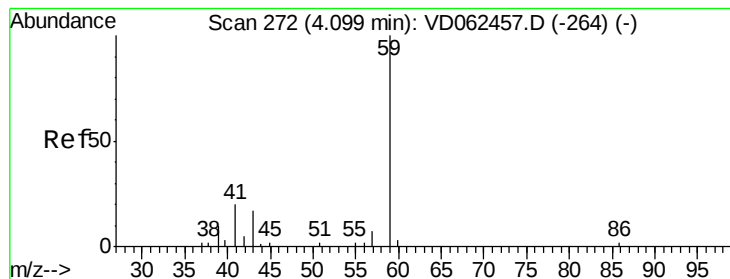
Tot Ion:168 Resp: 114487
Ion Ratio Lower Upper
168 100
99 63.6 46.5 69.7



#8
Diethyl Ether
Concen: 2.018 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.02 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Tgt Ion: 74 Resp: 525
Ion Ratio Lower Upper
74 100
45 107.4 56.9 170.7



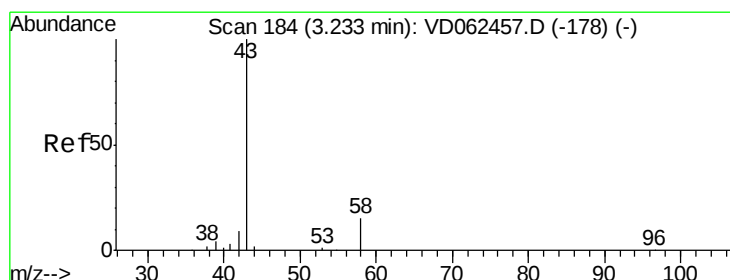
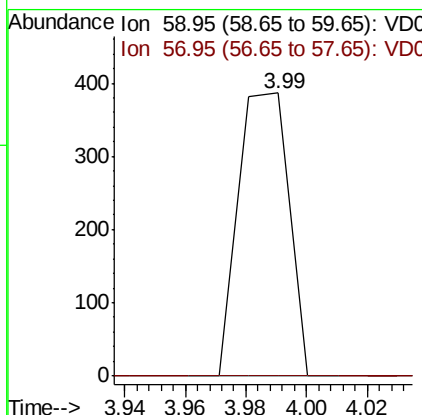
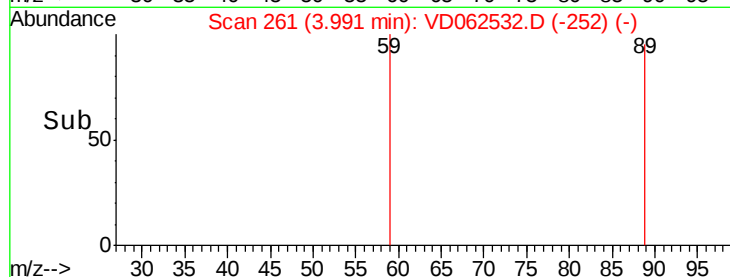
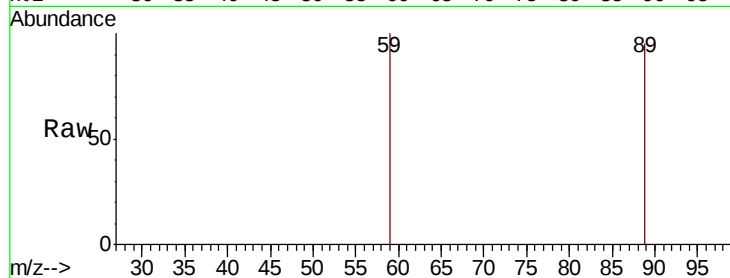


#11

Tert butyl alcohol
 Concen: 8.026 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.11 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR200036

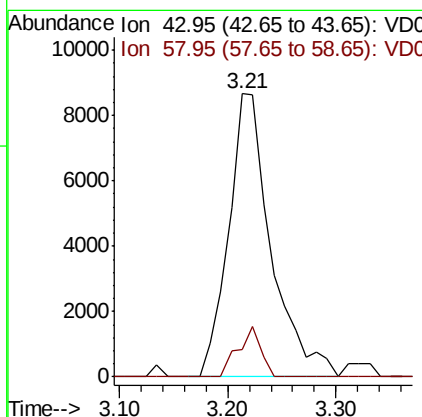
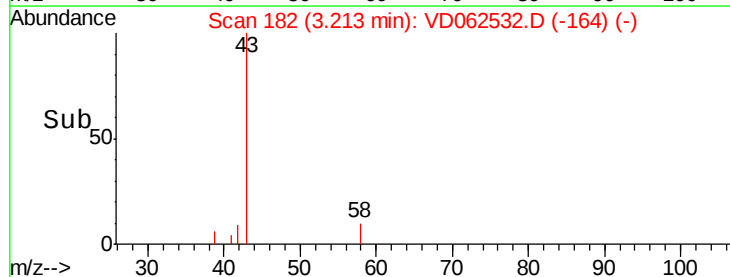
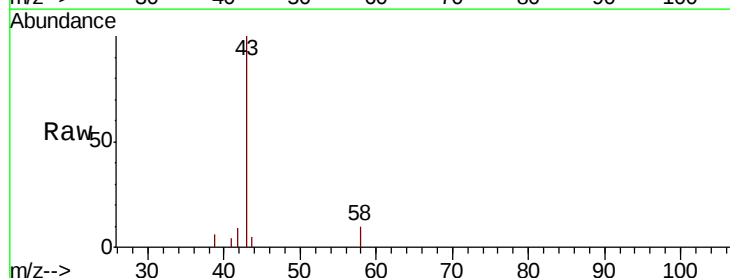
Tot Ion: 59 Resp: 454
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

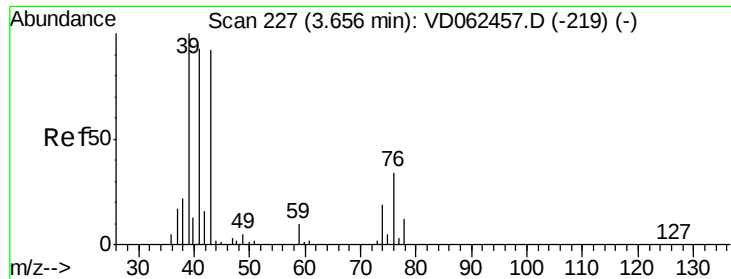


#16

Acetone
 Concen: 107.600 ug/l
 RT: 3.21 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Tgt Ion: 43 Resp: 23630
 Ion Ratio Lower Upper
 43 100
 58 9.9 19.9 29.9#

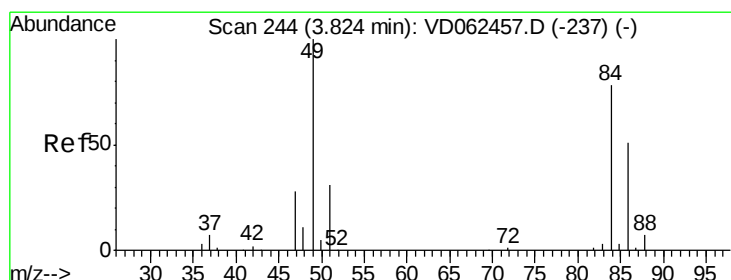
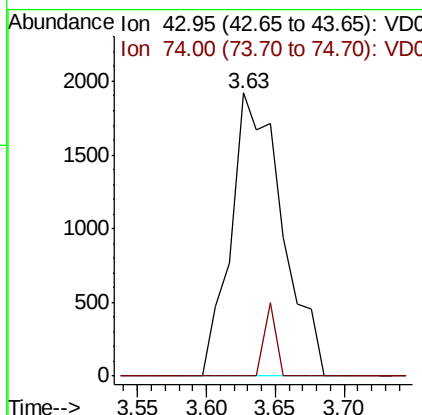
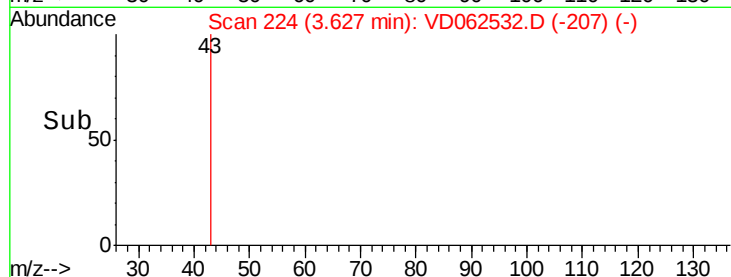
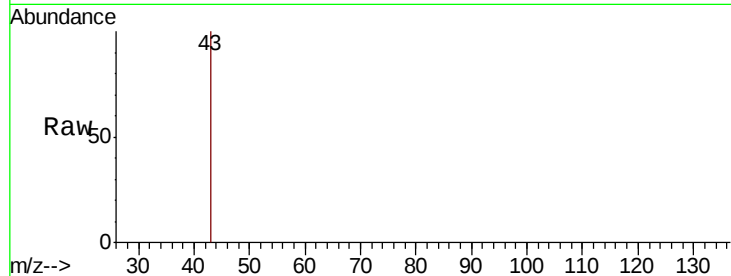




#18
Methyl Acetate
Concen: 13.134 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.03 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

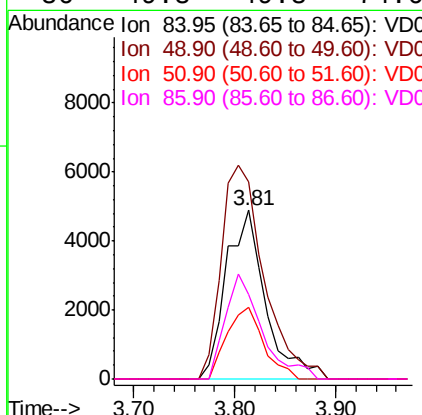
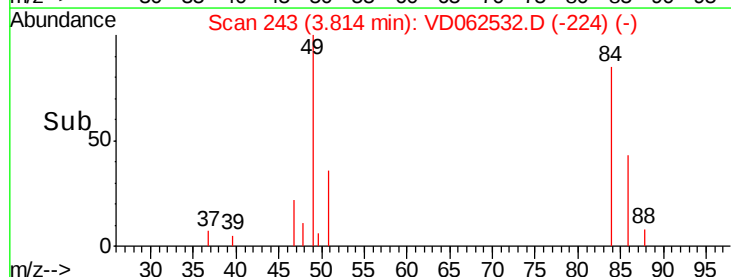
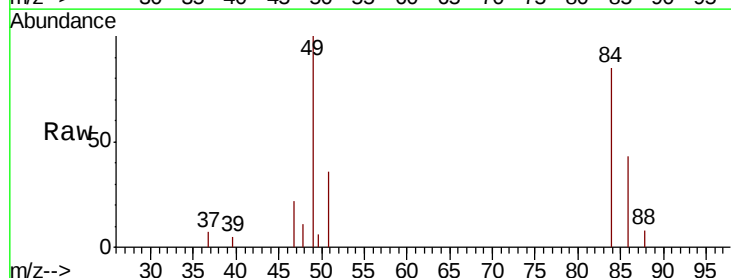
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ClientSampleId :
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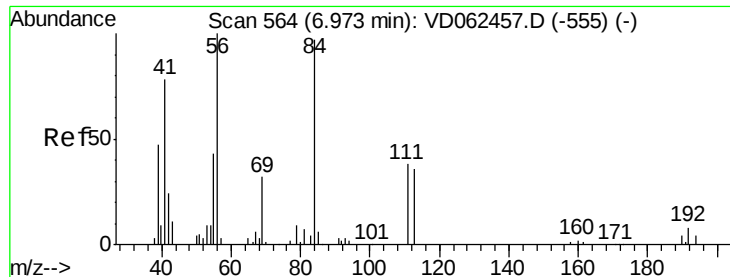
Tot Ion: 43 Resp: 4977
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 9.016 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Tgt Ion: 84 Resp: 13252
Ion Ratio Lower Upper
84 100
49 117.0 94.0 141.0
51 42.6 29.0 43.4
86 49.8 49.8 74.6

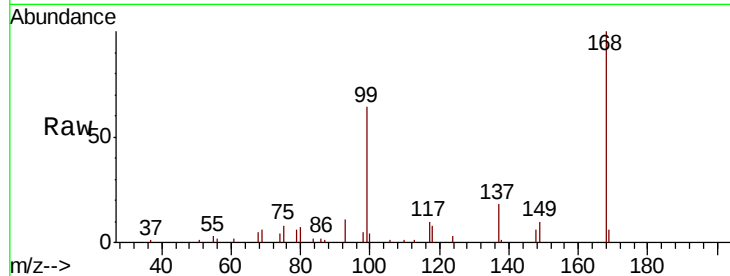




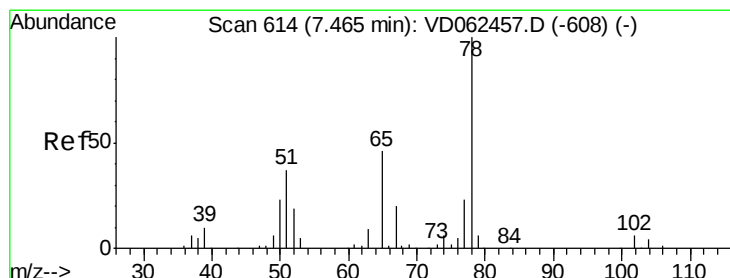
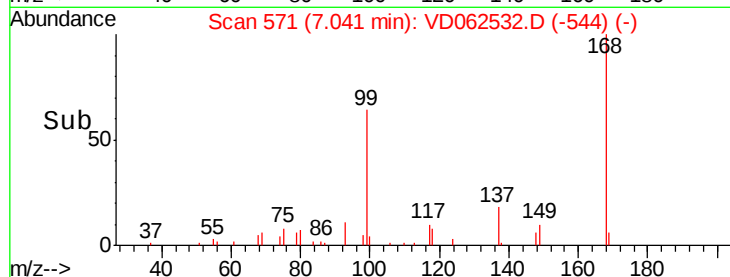
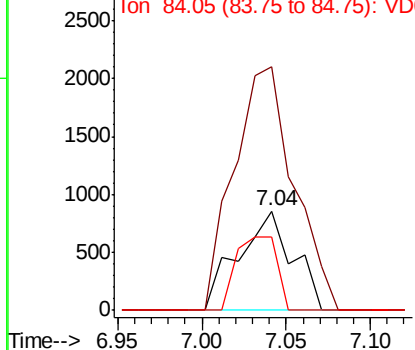
#31
Cyclohexane
Concen: 1.664 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.07 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Instrument :
MSVOA_D
ClientSampleID :
RBR200036

Tot Ion: 56 Resp: 1925
Ion Ratio Lower Upper
56 100
69 245.4 25.8 38.6#
84 74.4 72.2 108.4

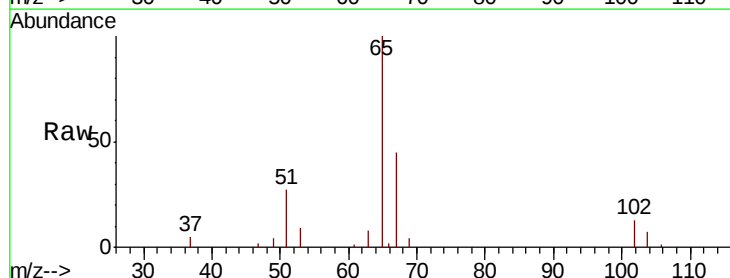


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

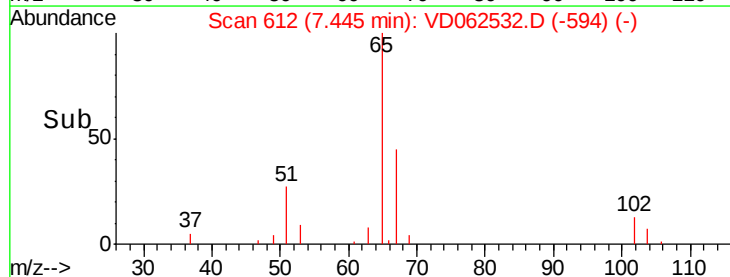
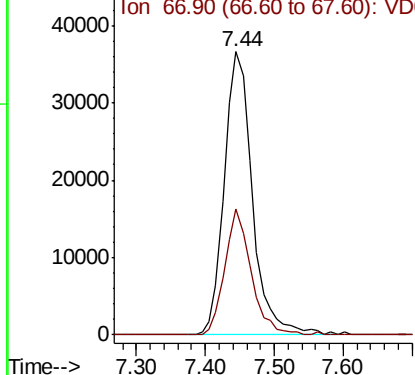


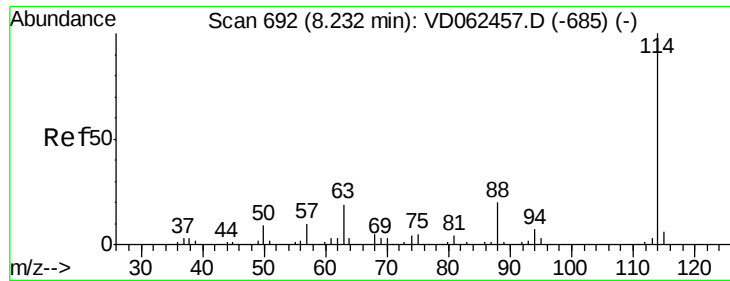
#33
1,2-Dichloroethane-d4
Concen: 84.465 ug/l
RT: 7.44 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Tgt Ion: 65 Resp: 103512
Ion Ratio Lower Upper
65 100
67 44.6 0.0 98.0



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

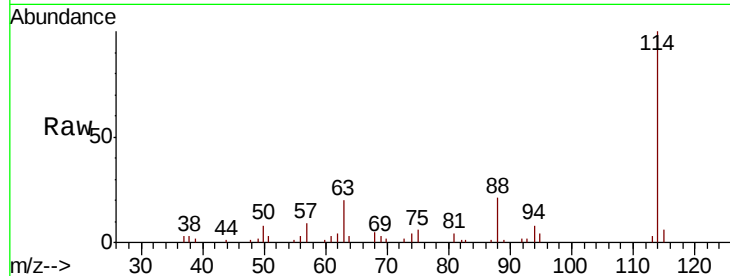




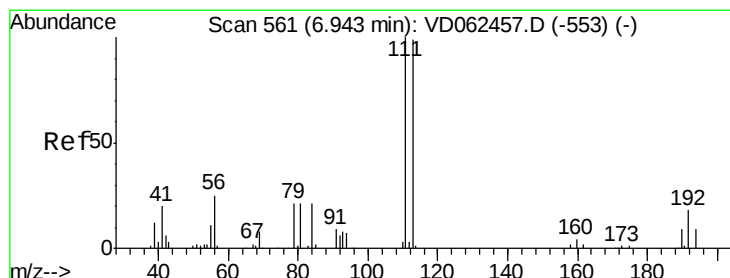
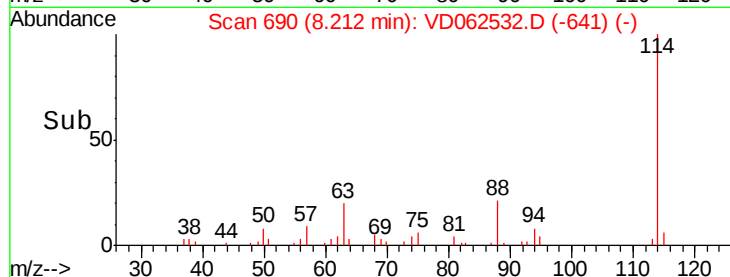
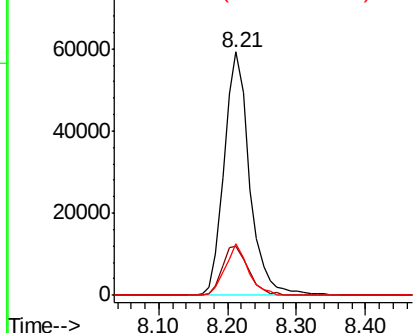
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR200036

Tot Ion:114 Resp: 151328
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 32.4
 88 20.9 0.0 33.6

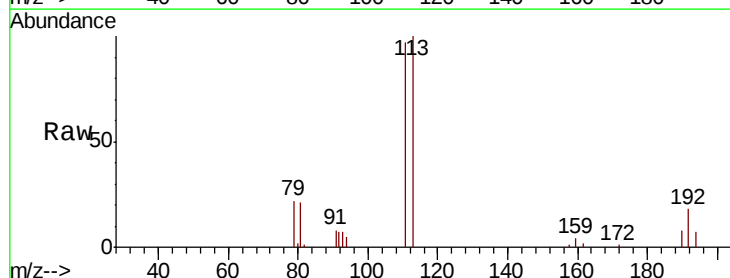


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

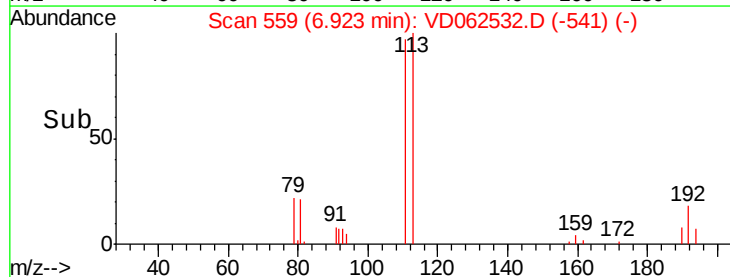
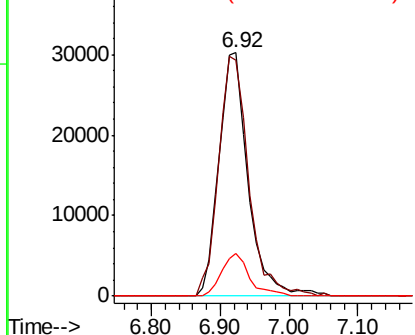


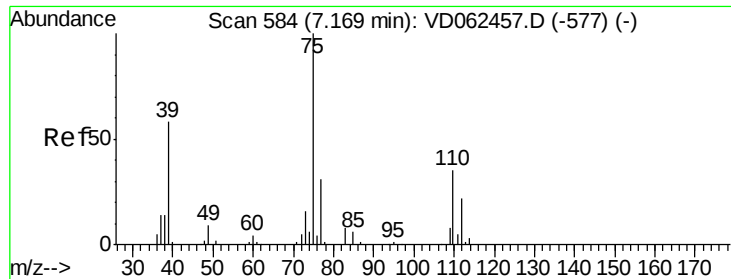
#35
 Dibromofluoromethane
 Concen: 65.133 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.02 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Tgt Ion:113 Resp: 88917
 Ion Ratio Lower Upper
 113 100
 111 97.1 78.5 117.7
 192 17.6 13.0 19.4



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

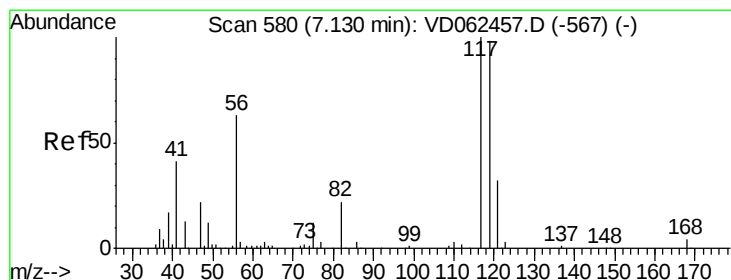
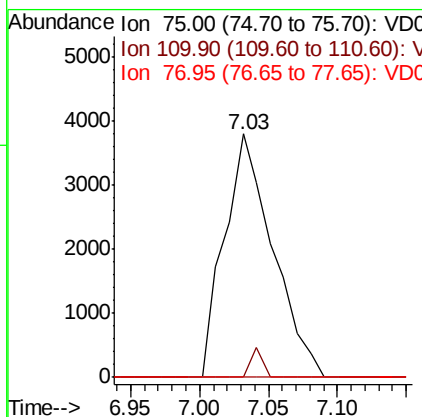
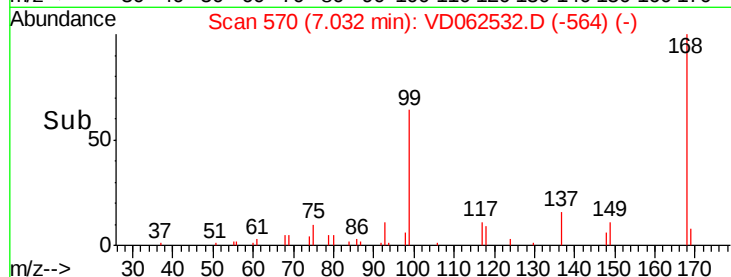
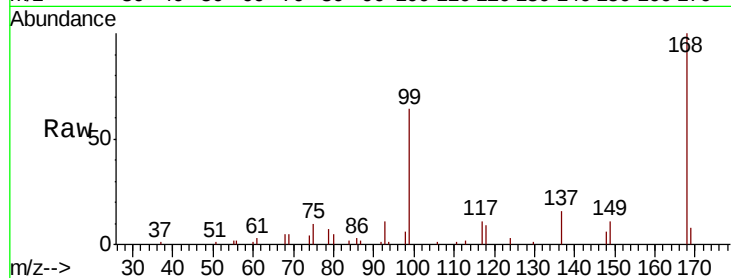




#36
 1,1-Dichloropropene
 Concen: 6.416 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.14 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

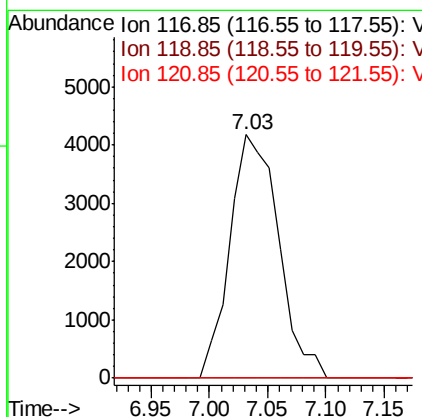
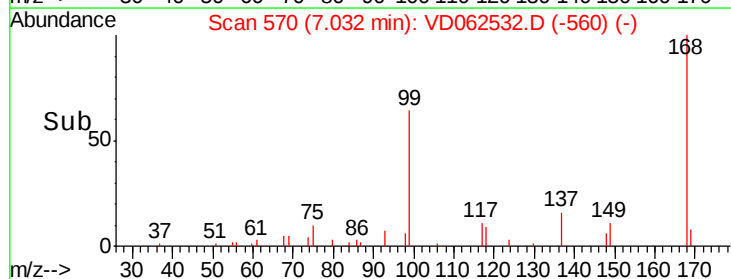
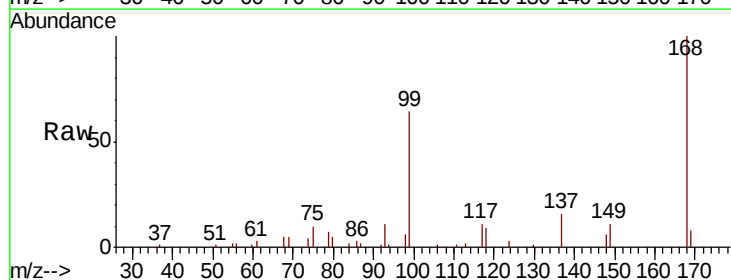
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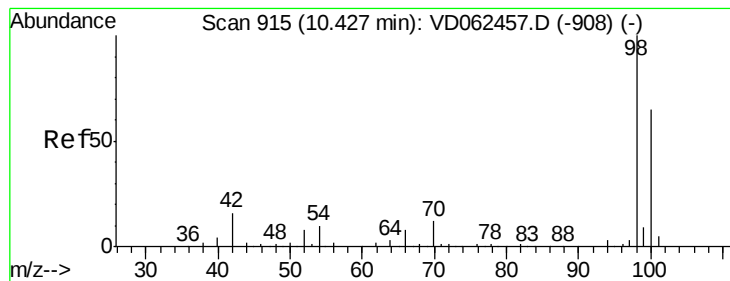
Tot Ion	75	Resp	9283
Ion Ratio	Lower	Upper	
75	100		
110	0.0	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 5.619 ug/l
 RT: 7.03 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Tgt Ion	117	Resp	12083
Ion Ratio	Lower	Upper	
117	100		
119	0.0	75.8	113.8#
121	0.0	25.9	38.9#





#50

Toluene-d8

Concen: 50.704 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.02 min

Lab File: VD062532.D

Acq: 24 May 2019 15:21

Instrument :

MSVOA_D

ClientSampleId :

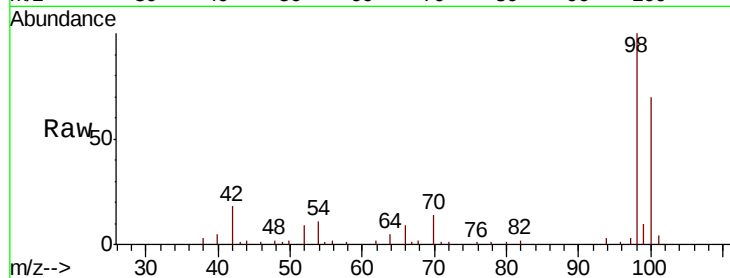
RBR200036

Tot Ion: 98 Resp: 151480

Ion Ratio Lower Upper

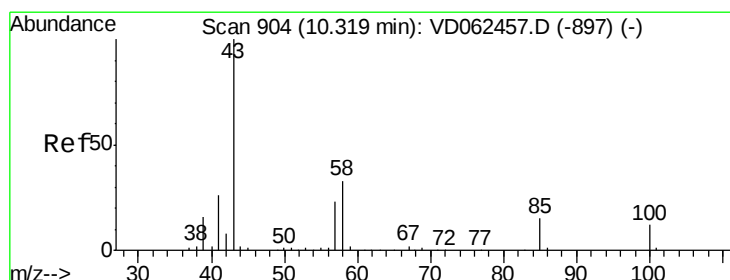
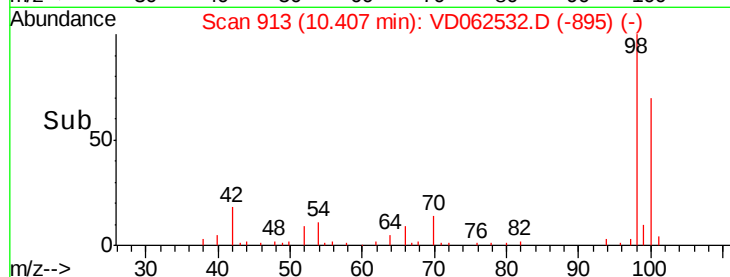
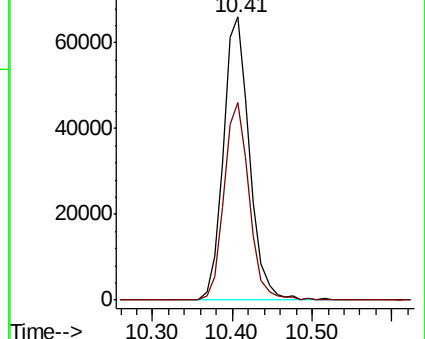
98 100

100 69.7 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.525 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.08 min

Lab File: VD062532.D

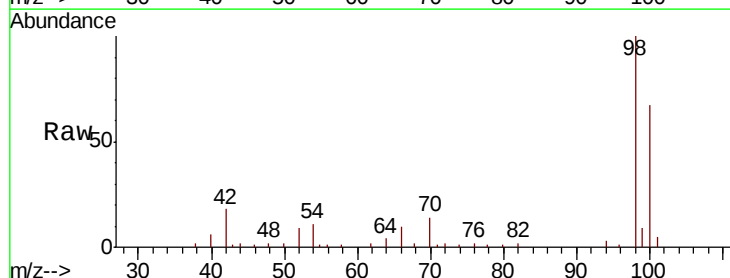
Acq: 24 May 2019 15:21

Tgt Ion: 43 Resp: 751

Ion Ratio Lower Upper

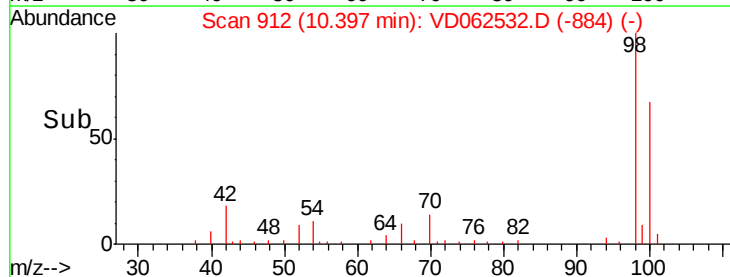
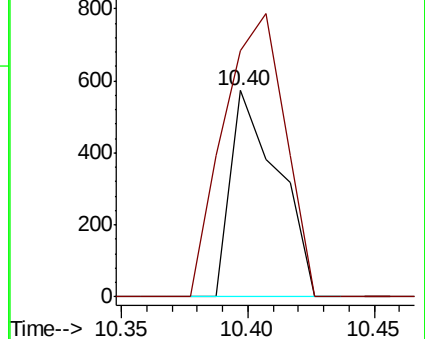
43 100

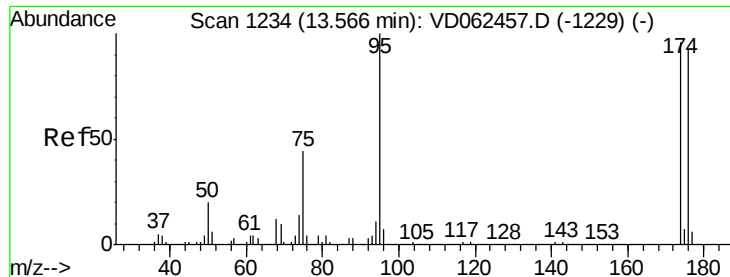
58 119.6 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 63.012 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.01 min

Lab File: VD062532.D

Acq: 24 May 2019 15:21

Instrument :

MSVOA_D

ClientSampleId :

RBR200036

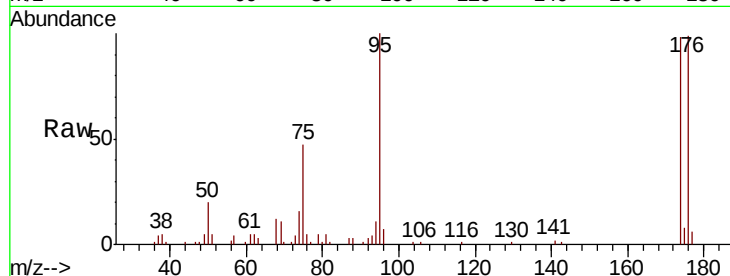
Tot Ion: 95 Resp: 82347

Ion Ratio Lower Upper

95 100

174 97.5 0.0 181.8

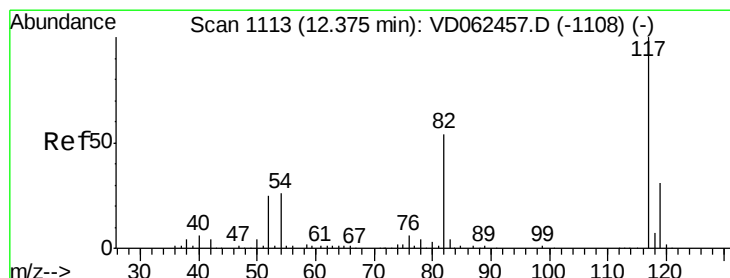
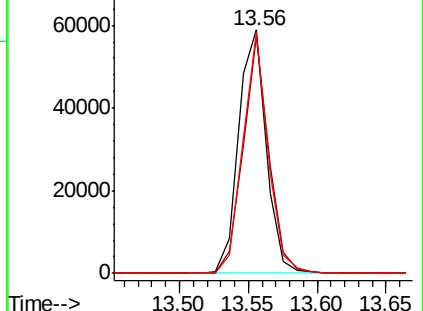
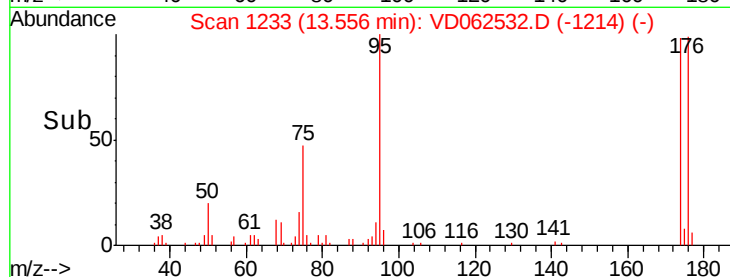
176 99.0 0.0 174.4



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: VD062532.D

Acq: 24 May 2019 15:21

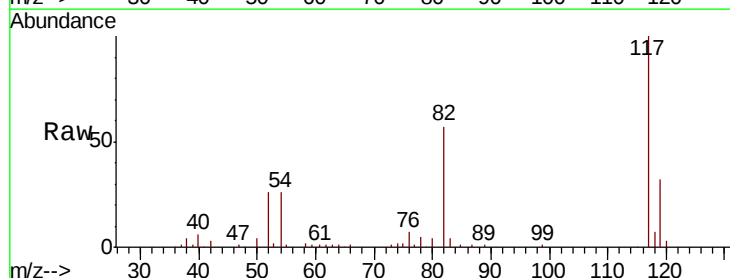
Tgt Ion: 117 Resp: 148642

Ion Ratio Lower Upper

117 100

82 57.5 36.2 54.2#

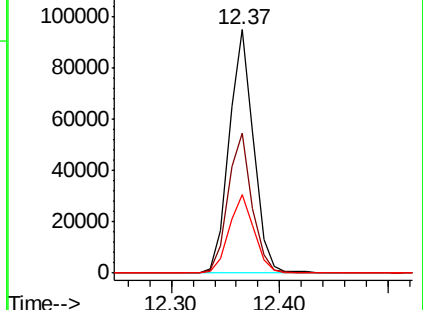
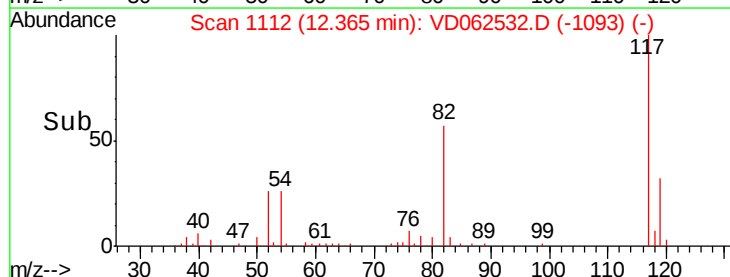
119 32.2 26.2 39.4

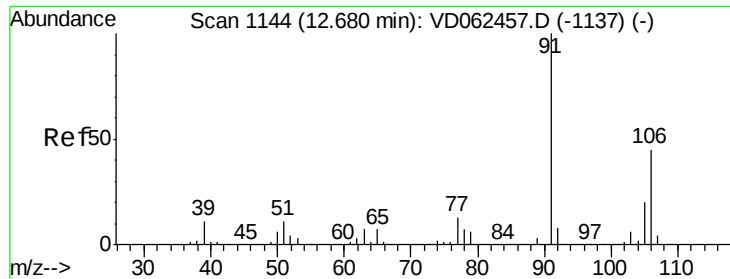


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

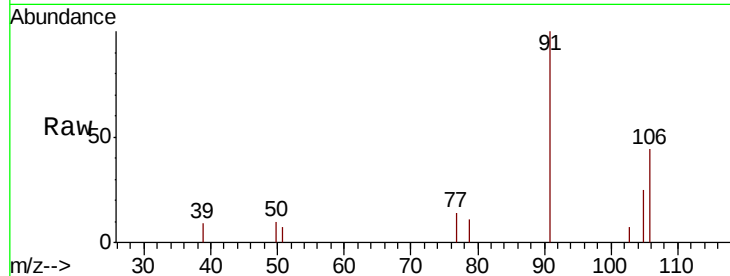




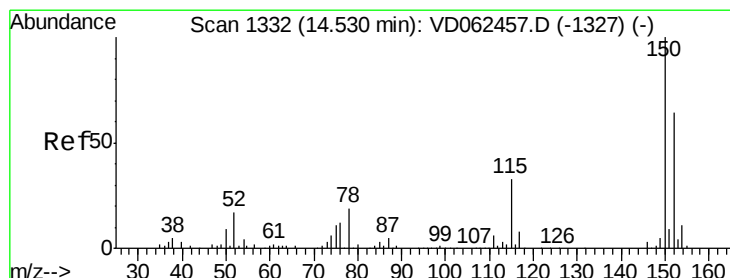
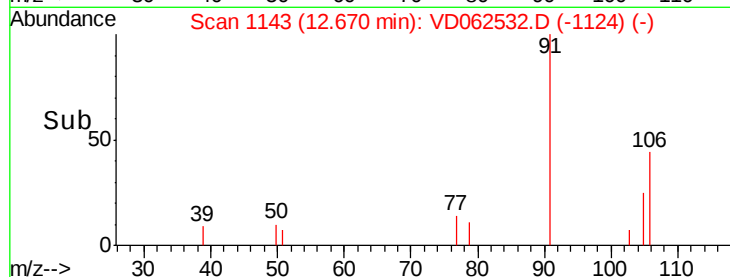
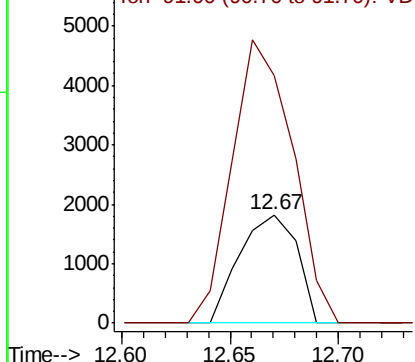
#68
m/p-Xvlenes
Concen: 1.898 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Instrument :
MSVOA_D
ClientSampled :
RBR200036

Tot Ion:106 Resp: 3355
Ion Ratio Lower Upper
106 100
91 228.1 164.0 246.0

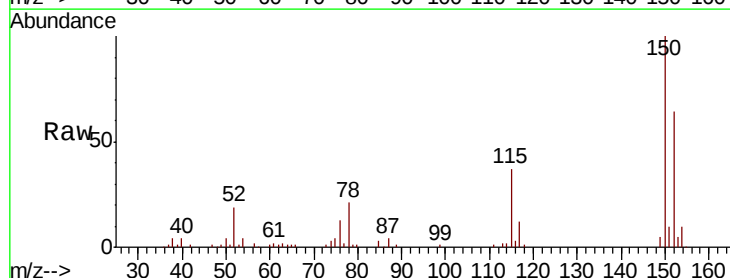


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

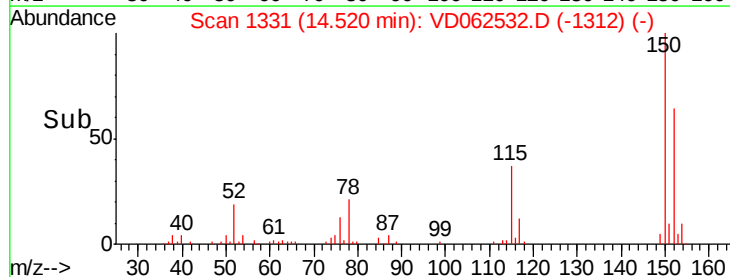
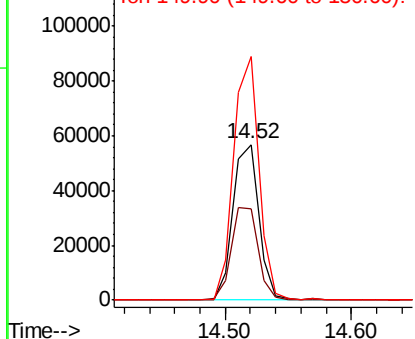


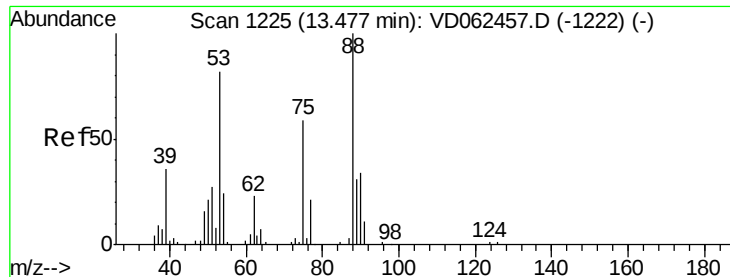
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Tgt Ion:152 Resp: 80027
Ion Ratio Lower Upper
152 100
115 58.4 30.9 92.7
150 156.6 0.0 314.8



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

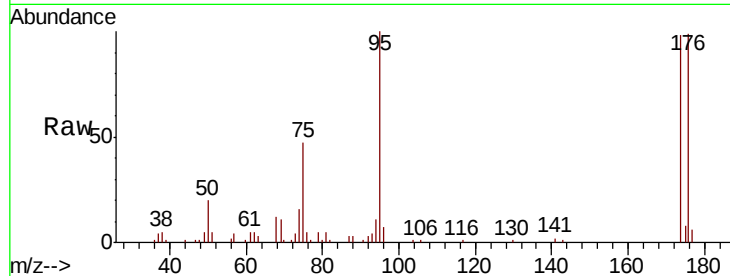




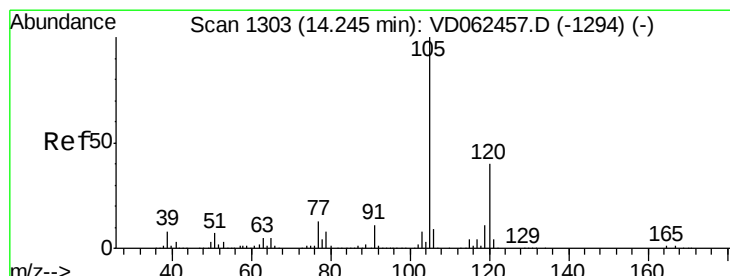
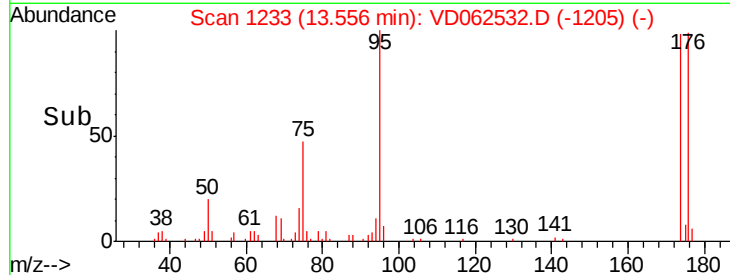
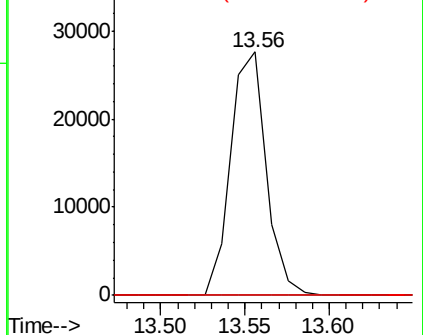
#81
trans-1,4-Dichloro-2-butene
Concen: 152.434 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.08 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Instrument :
MSVOA_D
ClientSampleId :
RBR200036

Tot Ion: 75 Resp: 40524
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#

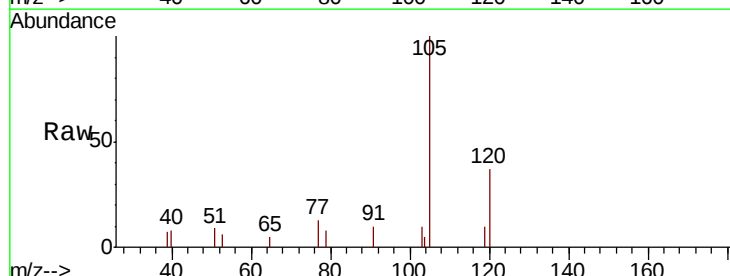


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

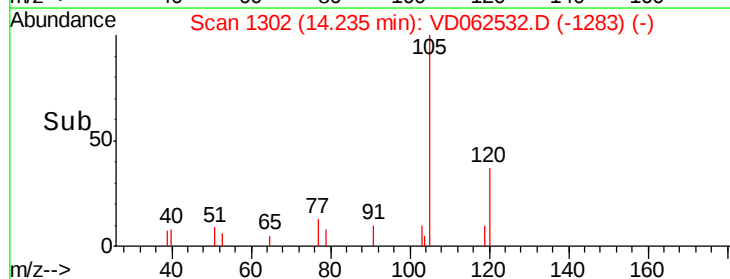
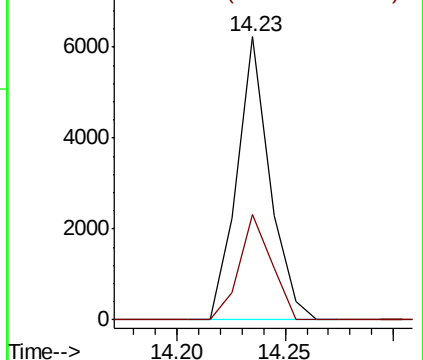


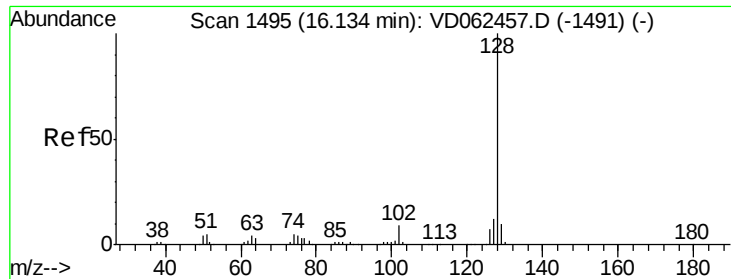
#84
1,2,4-Trimethylbenzene
Concen: 1.469 ug/l
RT: 14.23 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VD062532.D
Acq: 24 May 2019 15:21

Tgt Ion:105 Resp: 6573
Ion Ratio Lower Upper
105 100
120 37.2 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#95
 Naphthalene
 Concen: 2.036 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. -0.01 min
 Lab File: VD062532.D
 Acq: 24 May 2019 15:21

Instrument :
 MSVOA_D
 ClientSampleId :
 RBR200036

Tot Ion:128 Resp: 4706
 Ion Ratio Lower Upper
 128 100
 127 9.3 9.8 14.8#
 129 12.6 8.8 13.2

