

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082319\
 Data File : VD063761.D
 Acq On : 23 Aug 2019 12:54
 Operator : JC/SY
 Sample : K4491-05RE
 Misc : 4.66g/5ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1-VSRE

Quant Time: Aug 26 01:06:07 2019
 Quant Method : Z:\VOASRV\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	7.04	168	843552	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1105867	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	684442	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	142129	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	610490	67.70	ug/l	-0.02
Spiked Amount			Recovery	=	135.40%	
35) Dibromofluoromethane	6.92	113	697869	74.93	ug/l	-0.02
Spiked Amount			Recovery	=	149.86%	
50) Toluene-d8	10.40	98	1303314	63.65	ug/l	-0.02
Spiked Amount			Recovery	=	127.30%	
62) 4-Bromofluorobenzene	13.55	95	273854	29.51	ug/l	0.00
Spiked Amount			Recovery	=	59.02%	

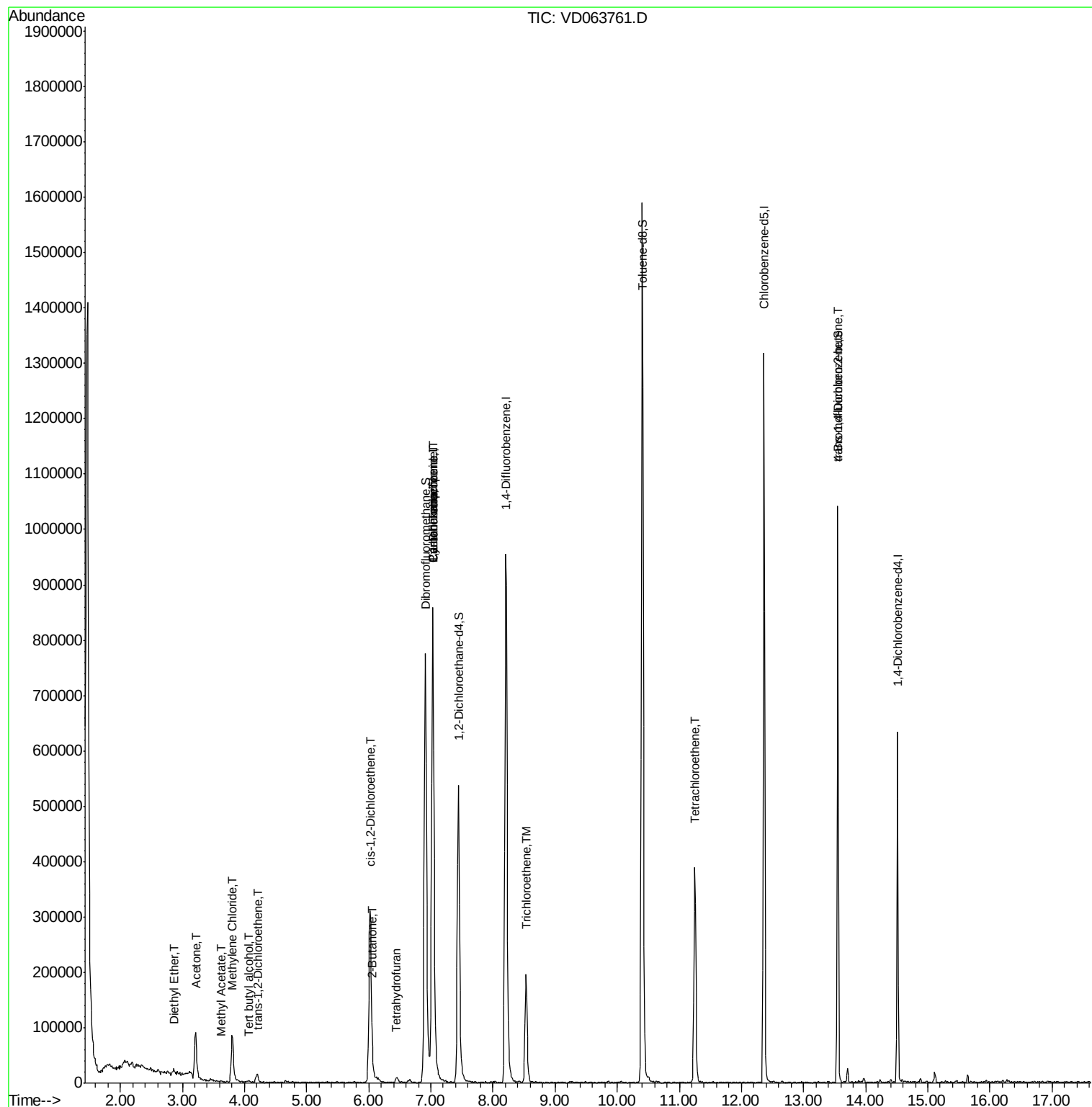
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.85	74	4089	1.865	ug/l	92
11) Tert butyl alcohol	4.07	59	4443	11.319	ug/l #	71
16) Acetone	3.22	43	170861	93.216	ug/l	98
18) Methyl Acetate	3.63	43	4125	1.188	ug/l #	57
20) Methylene Chloride	3.80	84	47784	6.029	ug/l #	87
21) trans-1,2-Dichloroethene	4.21	96	8288	1.155	ug/l	98
25) 2-Butanone	6.06	43	6522	3.603	ug/l	93
27) cis-1,2-Dichloroethene	6.02	96	197507	25.167	ug/l	96
29) Tetrahydrofuran	6.44	42	5388	6.387	ug/l #	75
31) Cyclohexane	7.04	56	17707	2.175	ug/l #	2
36) 1,1-Dichloropropene	7.03	75	63572	6.503	ug/l #	51
38) Carbon Tetrachloride	7.04	117	74654	5.067	ug/l #	18
44) Trichloroethene	8.53	130	88270	10.734	ug/l	96
64) Tetrachloroethene	11.25	164	113703	21.520	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.55	75	120178	274.119	ug/l #	1

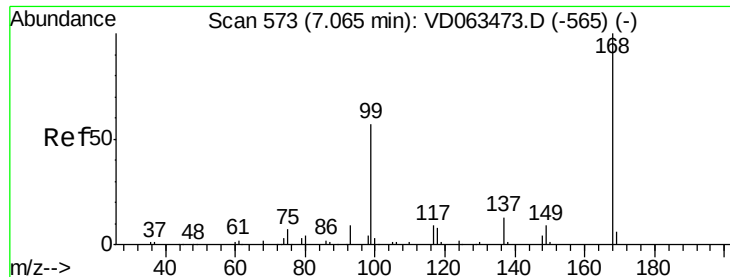
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

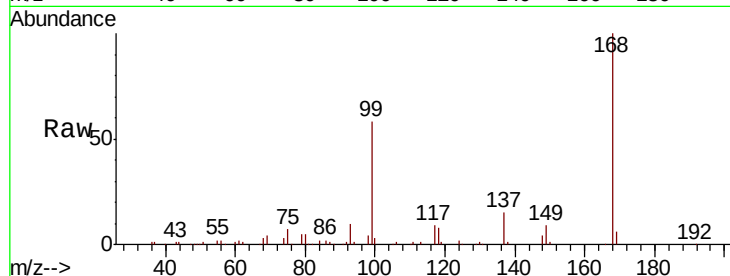
TS-1-VSRE

Tgt Ion:168 Resp: 843552

Ion Ratio Lower Upper

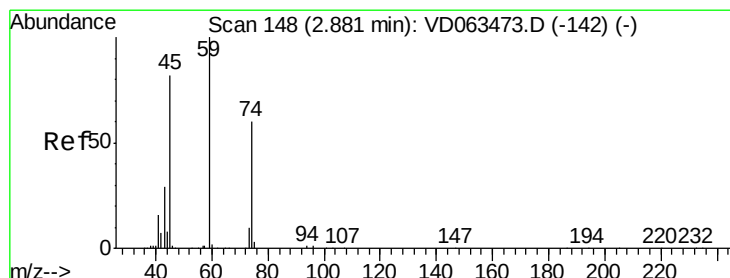
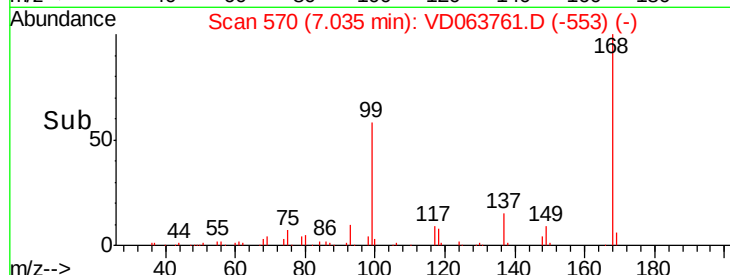
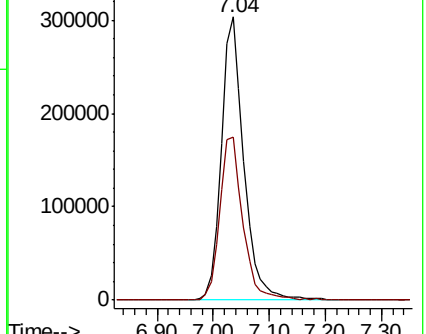
168 100

99 57.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.865 ug/l

RT: 2.85 min Scan# 145

Delta R.T. -0.03 min

Lab File: VD063761.D

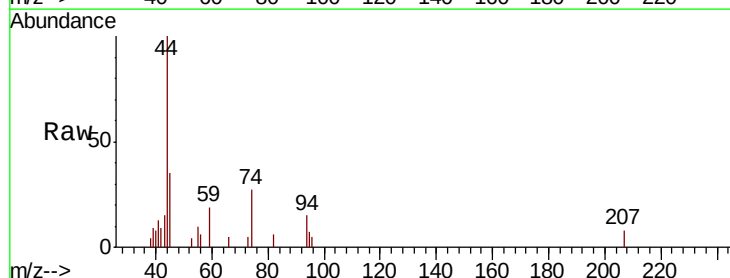
Acq: 23 Aug 2019 12:54

Tgt Ion: 74 Resp: 4089

Ion Ratio Lower Upper

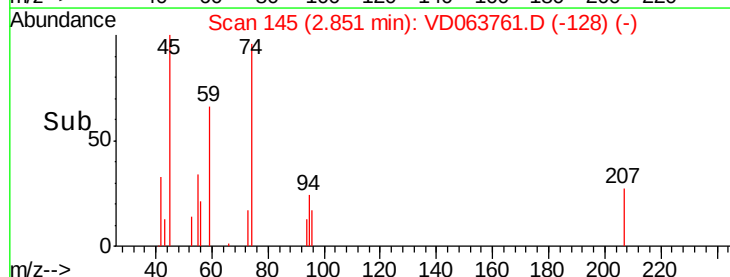
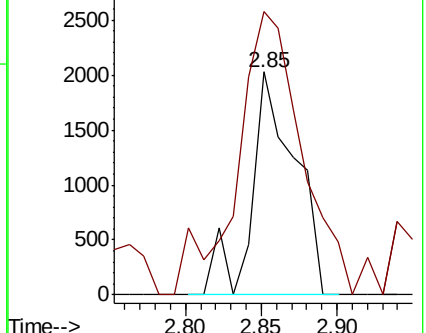
74 100

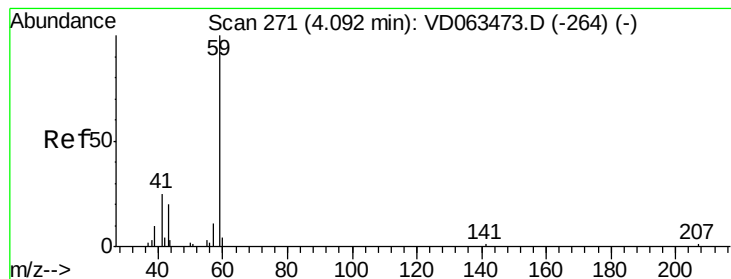
45 126.9 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#11

Tert butyl alcohol

Concen: 11.319 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.02 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

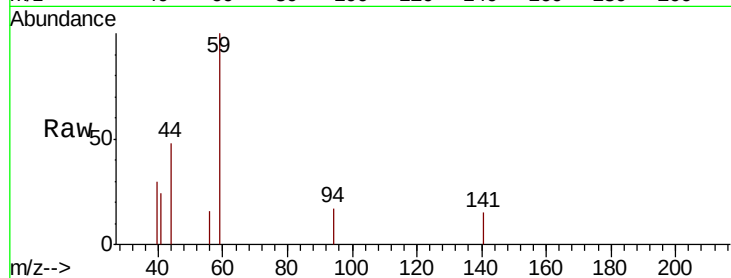
TS-1-VSRE

Tgt Ion: 59 Resp: 4443

Ion Ratio Lower Upper

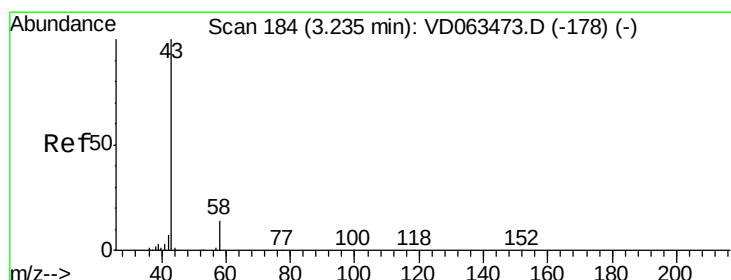
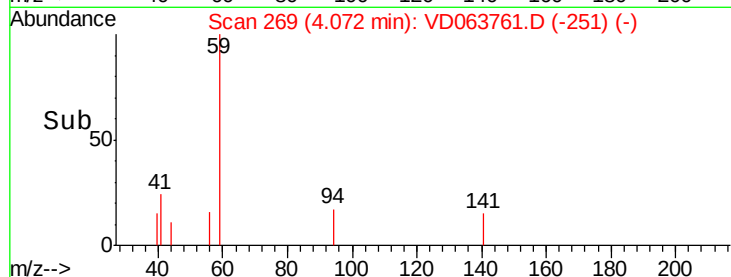
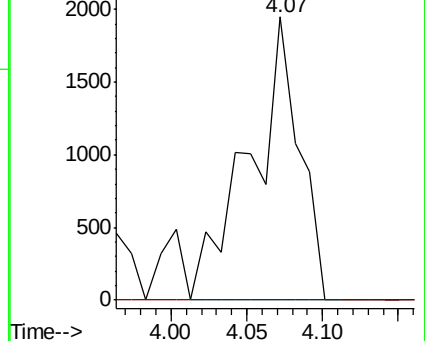
59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 93.216 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063761.D

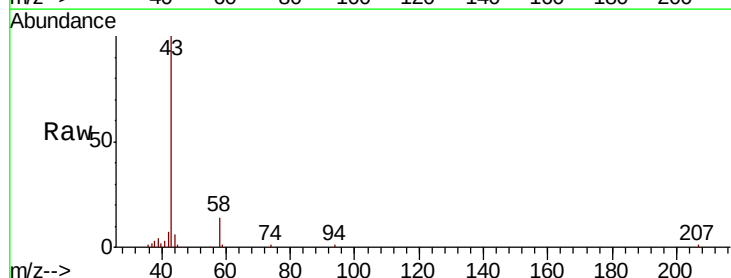
Acq: 23 Aug 2019 12:54

Tgt Ion: 43 Resp: 170861

Ion Ratio Lower Upper

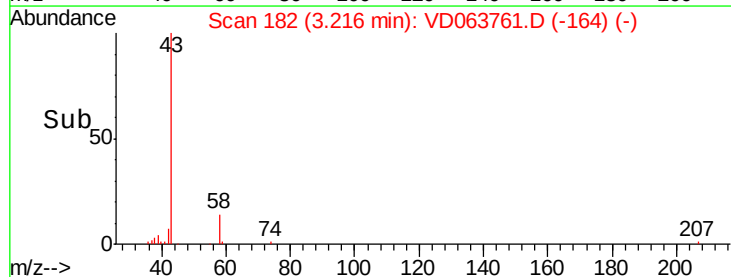
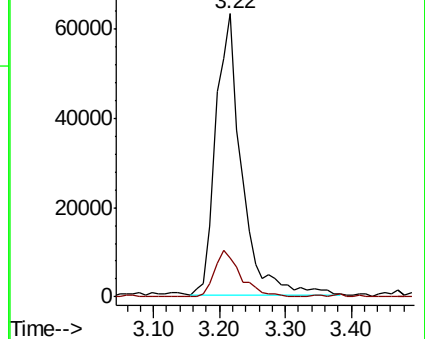
43 100

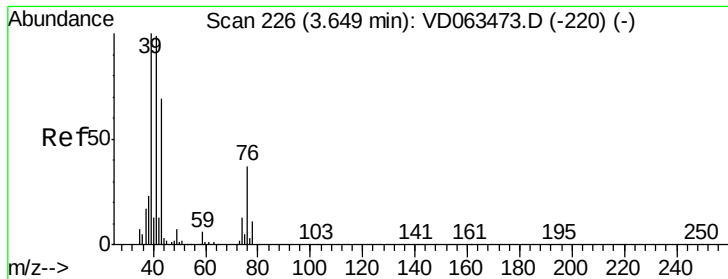
58 13.6 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

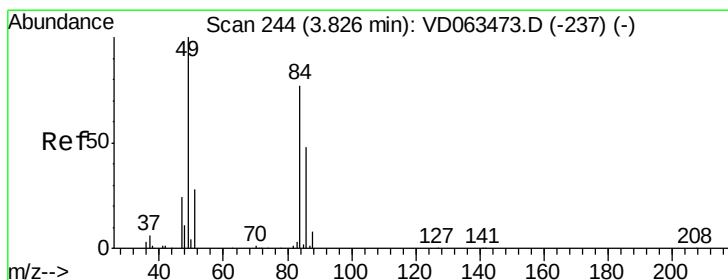
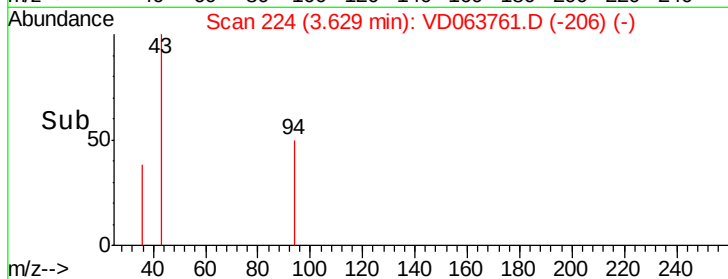
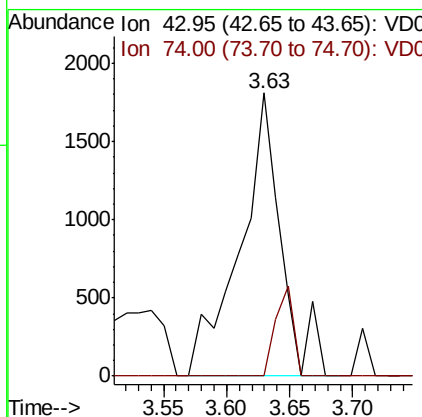
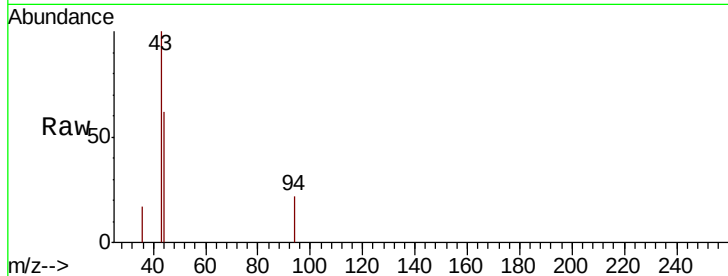




#18
Methyl Acetate
Concen: 1.188 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.02 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

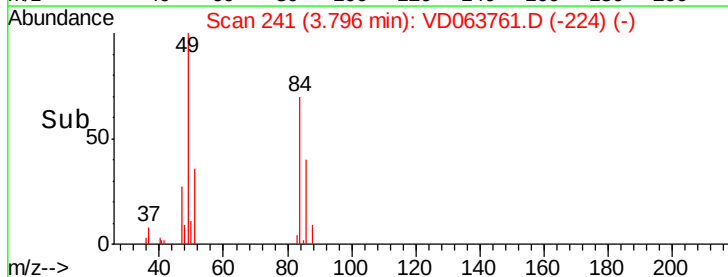
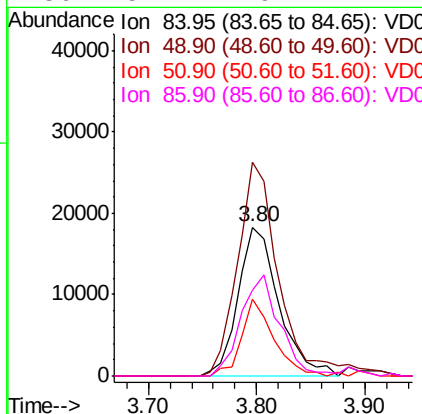
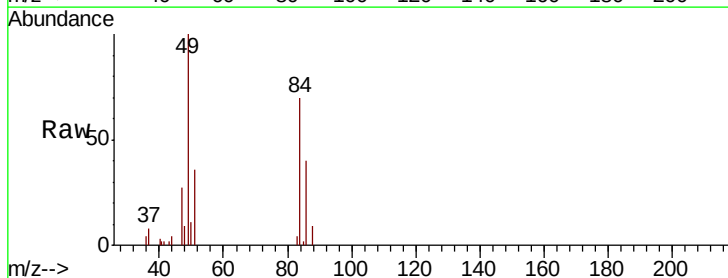
Instrument :
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TS-1-VSRE

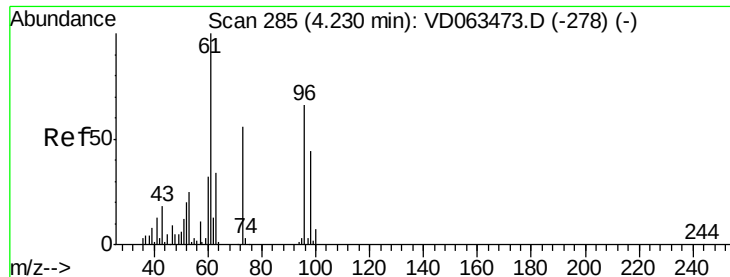
Tgt Ion: 43 Resp: 4125
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#



#20
Methylene Chloride
Concen: 6.029 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.03 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

Tgt Ion: 84 Resp: 47784
Ion Ratio Lower Upper
84 100
49 143.7 103.4 155.2
51 51.7 28.5 42.7#
86 57.4 49.4 74.2





#21

trans-1,2-Dichloroethene

Concen: 1.155 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VSRE

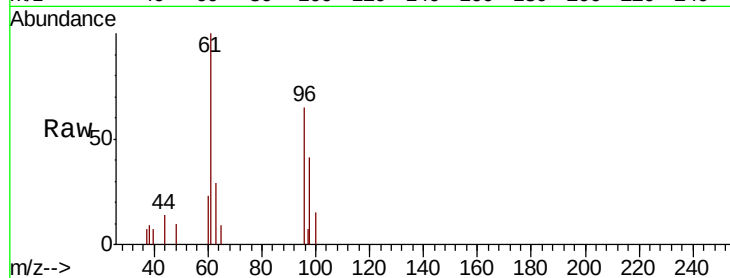
Tgt Ion: 96 Resp: 8288

Ion Ratio Lower Upper

96 100

61 153.2 121.7 182.5

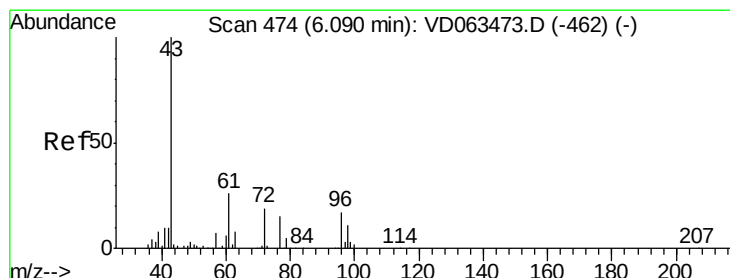
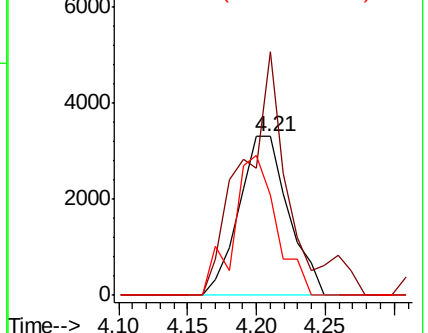
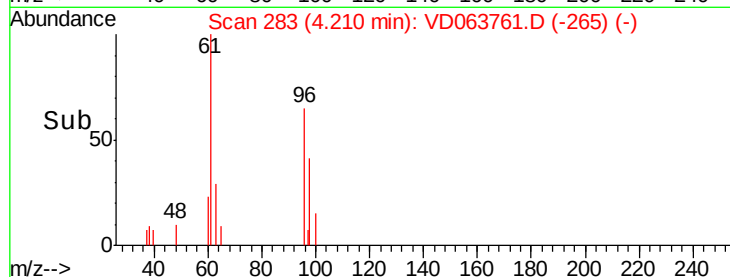
98 63.3 54.2 81.2



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#25

2-Butanone

Concen: 3.603 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.03 min

Lab File: VD063761.D

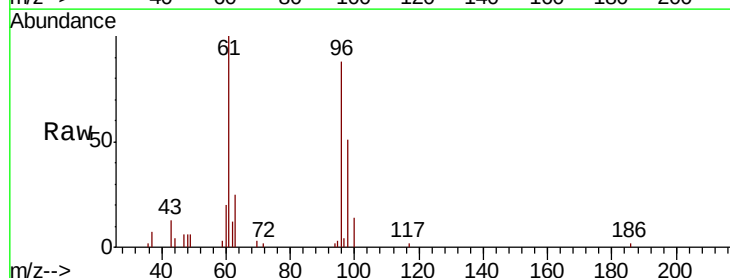
Acq: 23 Aug 2019 12:54

Tgt Ion: 43 Resp: 6522

Ion Ratio Lower Upper

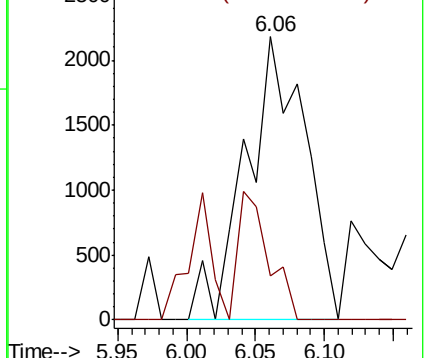
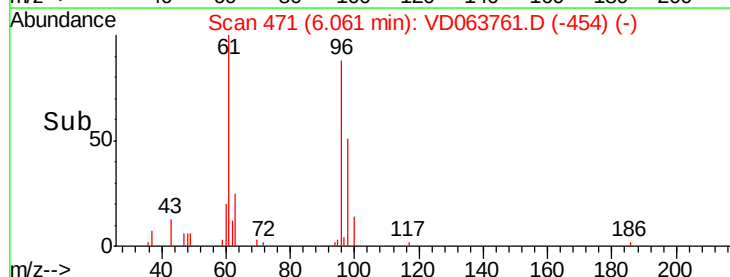
43 100

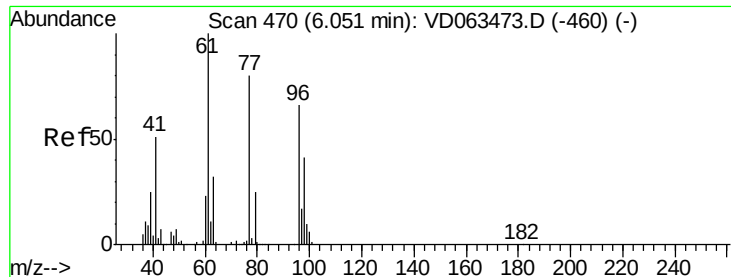
72 15.6 15.1 22.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



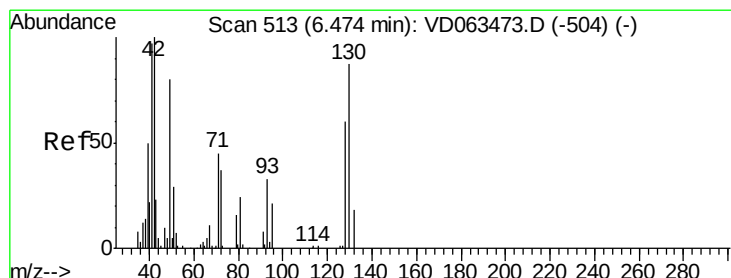
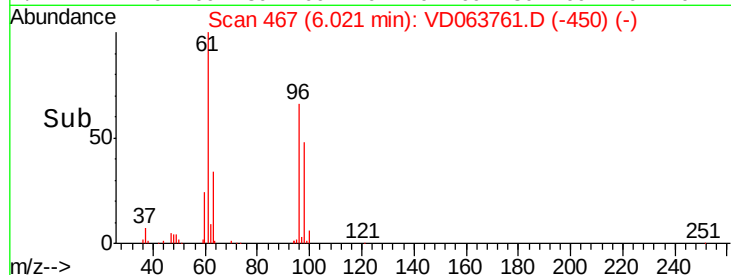
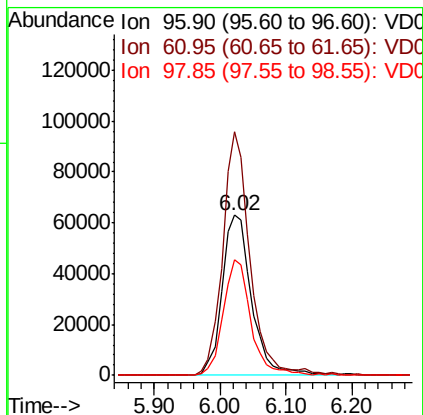
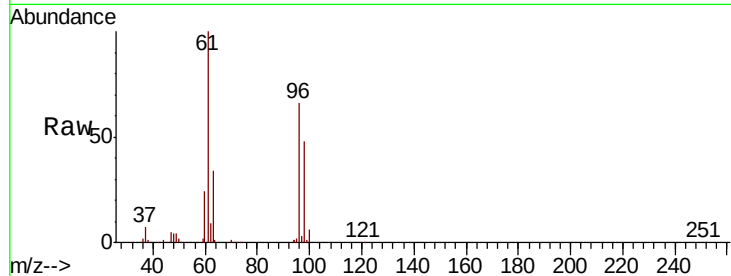


#27

cis-1,2-Dichloroethene
Concen: 25.167 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.03 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

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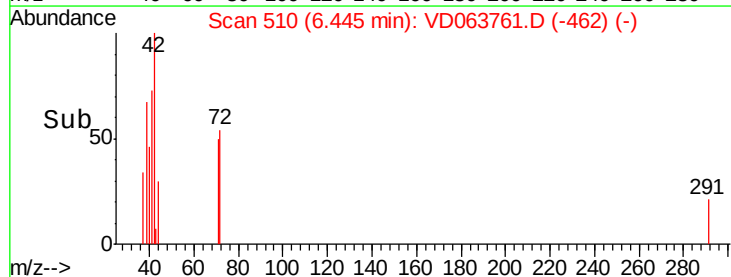
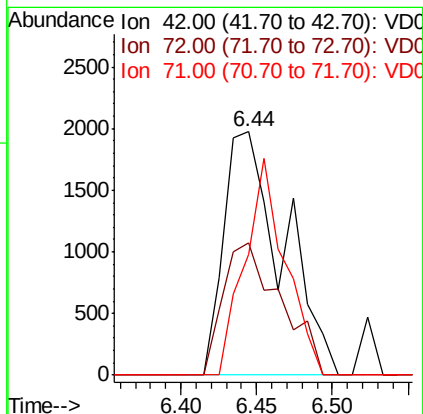
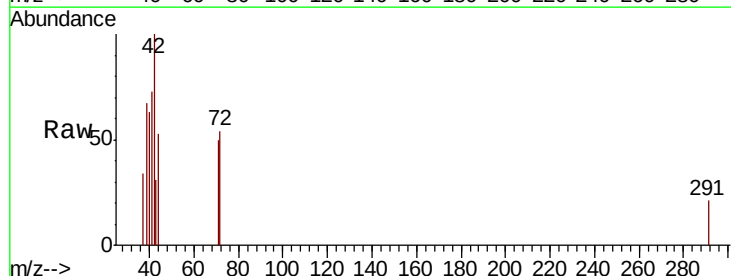
Tgt Ion: 96 Resp: 197507
Ion Ratio Lower Upper
96 100
61 151.9 0.0 304.0
98 72.4 0.0 124.8

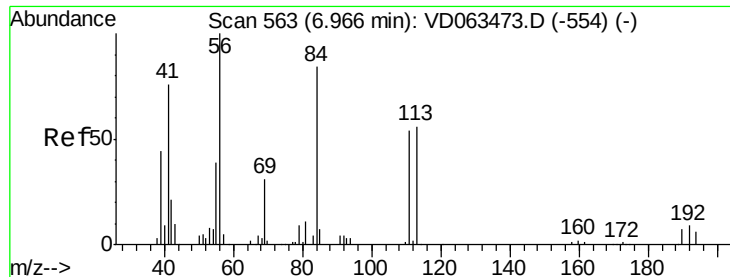


#29

Tetrahydrofuran
Concen: 6.387 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.03 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

Tgt Ion: 42 Resp: 5388
Ion Ratio Lower Upper
42 100
72 52.7 31.5 47.3#
71 60.6 33.8 50.8#

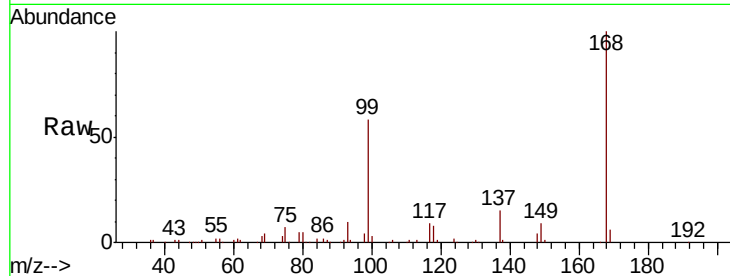




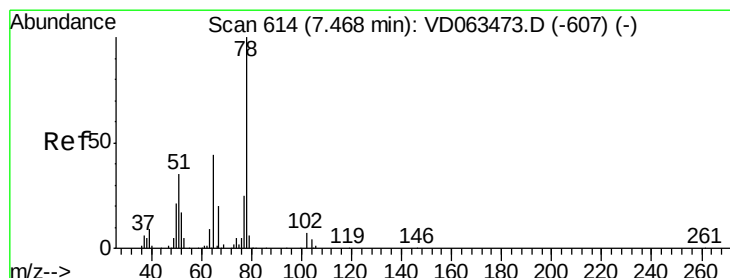
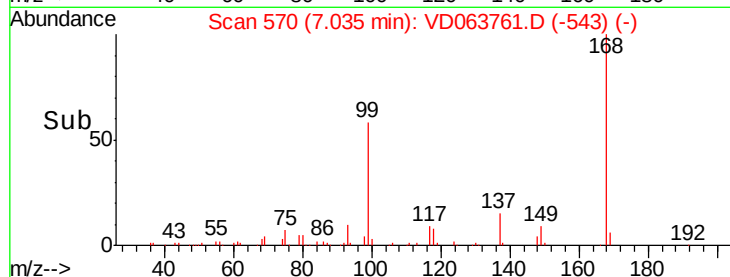
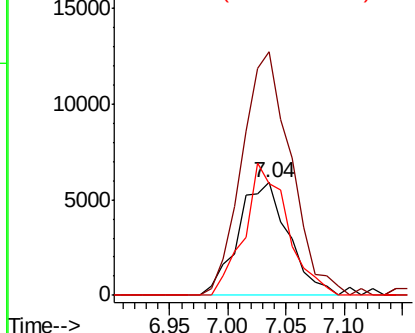
#31
Cyclohexane
Concen: 2.175 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

Instrument :
MSVOA_D
ClientSampleId :
TS-1-VSRE

Tgt Ion: 56 Resp: 17707
Ion Ratio Lower Upper
56 100
69 215.8 25.0 37.6#
84 99.6 69.7 104.5

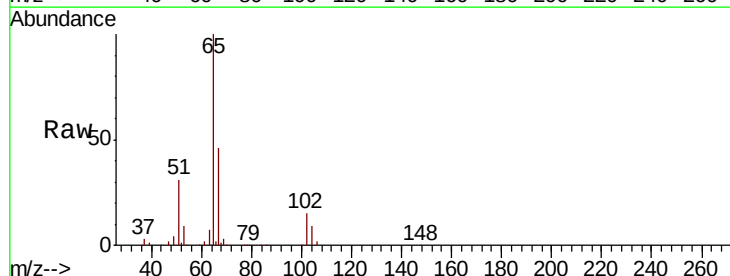


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

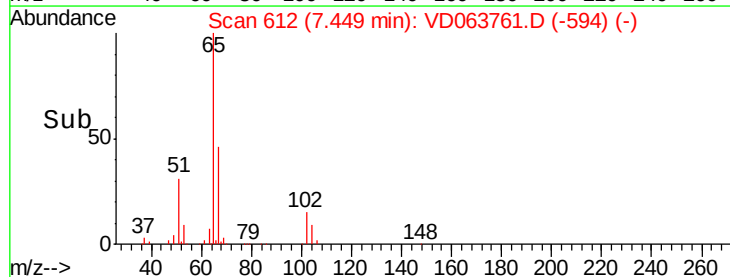
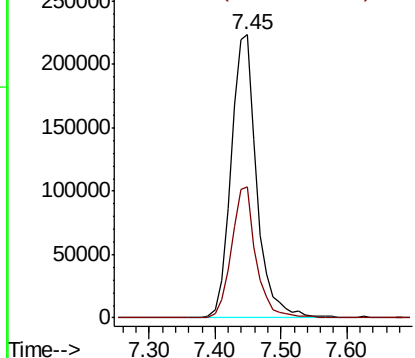


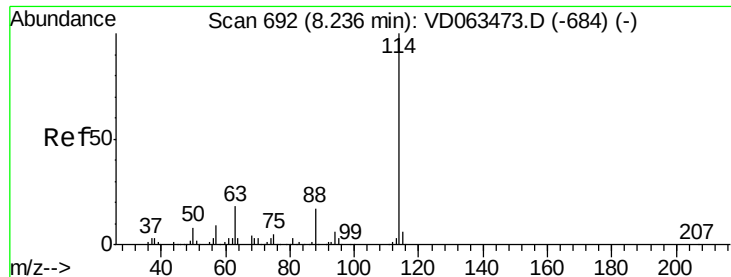
#33
1,2-Dichloroethane-d4
Concen: 67.705 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

Tgt Ion: 65 Resp: 610490
Ion Ratio Lower Upper
65 100
67 46.3 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: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VSRE

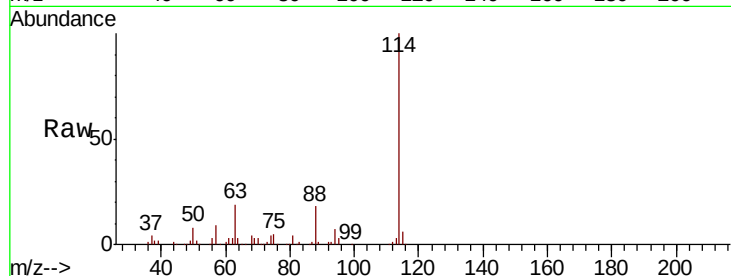
Tgt Ion:114 Resp: 1105867

Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.2

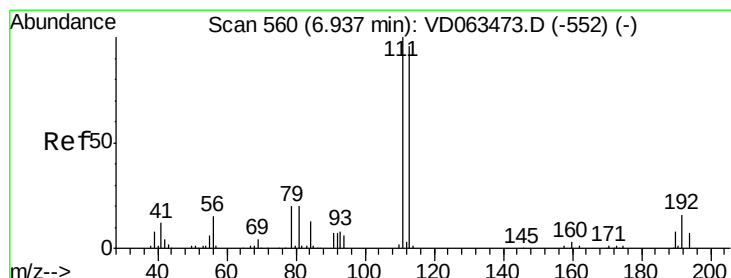
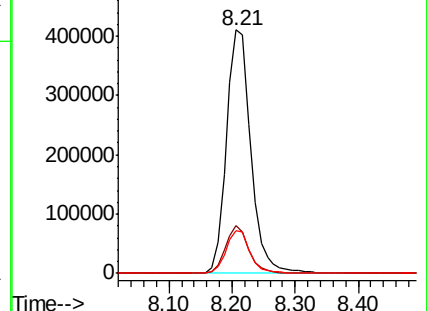
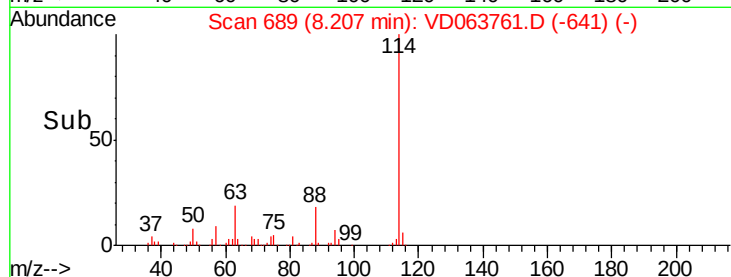
88 17.7 0.0 35.0



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: 74.929 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

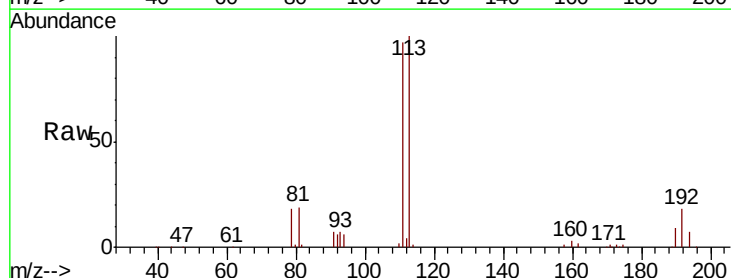
Tgt Ion:113 Resp: 697869

Ion Ratio Lower Upper

113 100

111 97.0 83.1 124.7

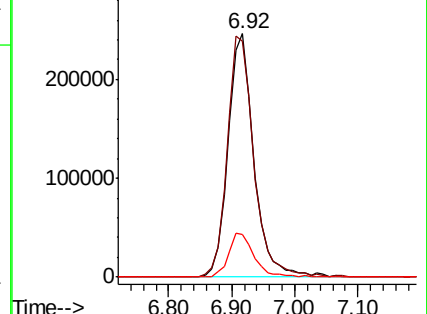
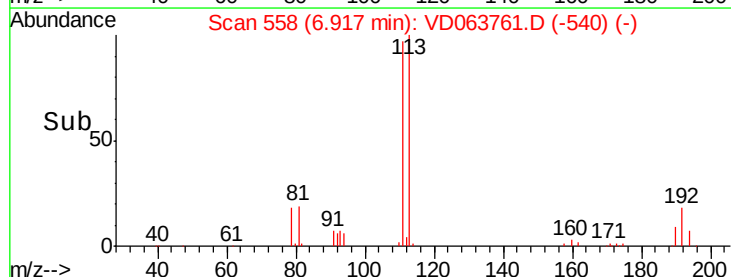
192 17.6 13.1 19.7

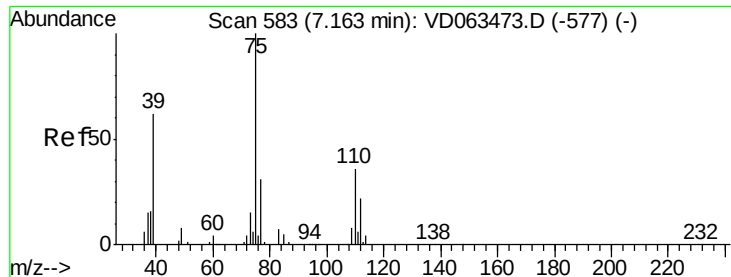


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

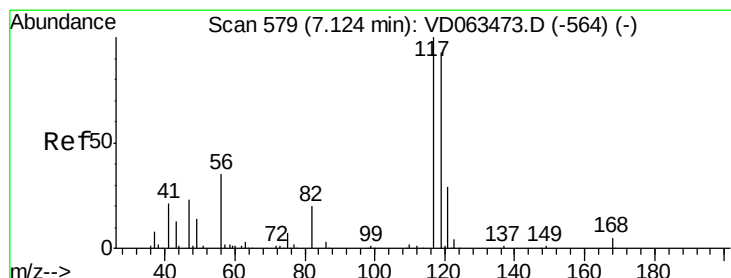
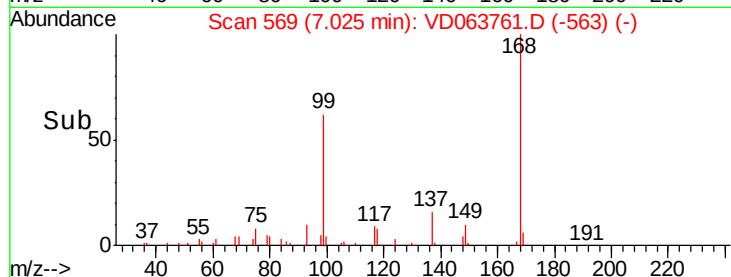
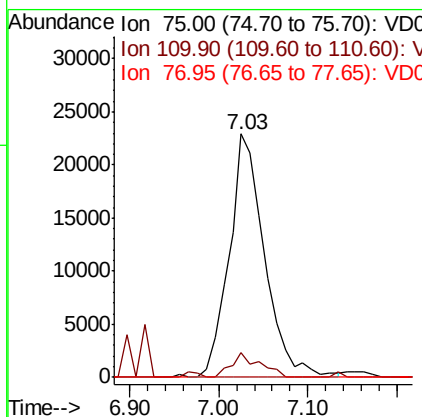
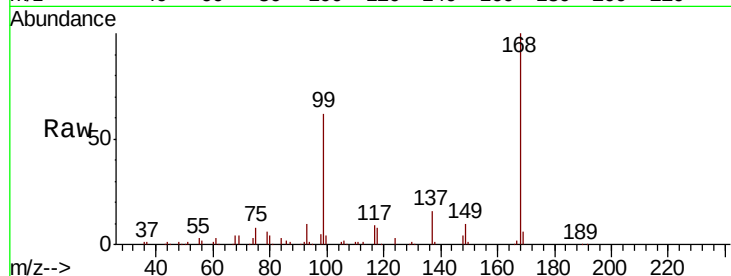




#36
 1,1-Dichloropropene
 Concen: 6.503 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.14 min
 Lab File: VD063761.D
 Acq: 23 Aug 2019 12:54

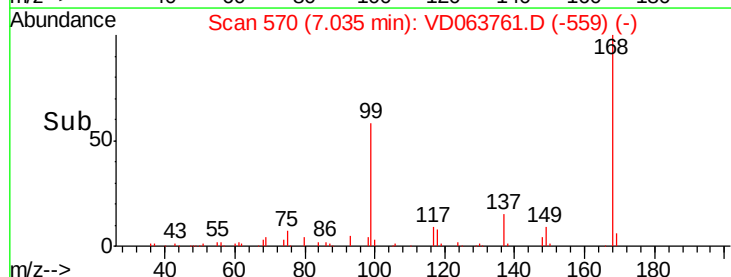
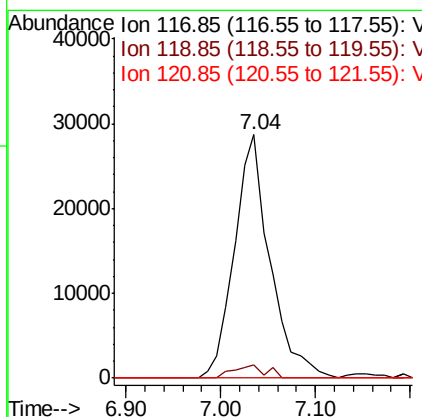
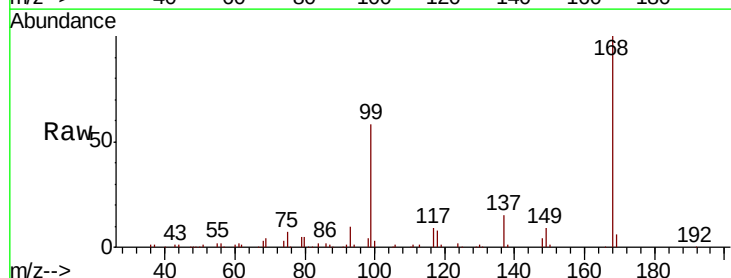
Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1-VSRE

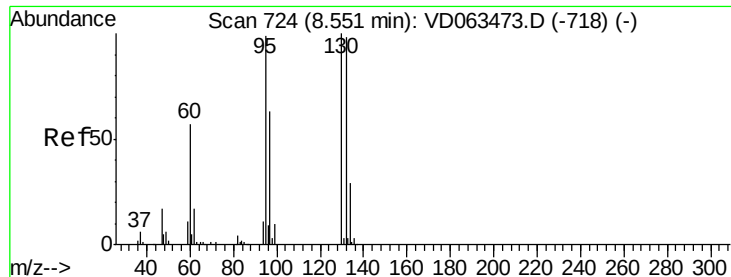
Tgt Ion: 75 Resp: 63572
 Ion Ratio Lower Upper
 75 100
 110 10.0 17.6 52.8#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.067 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.09 min
 Lab File: VD063761.D
 Acq: 23 Aug 2019 12:54

Tgt Ion: 117 Resp: 74654
 Ion Ratio Lower Upper
 117 100
 119 5.5 74.2 111.2#
 121 0.0 23.1 34.7#





#44

Trichloroethene

Concen: 10.734 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.02 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

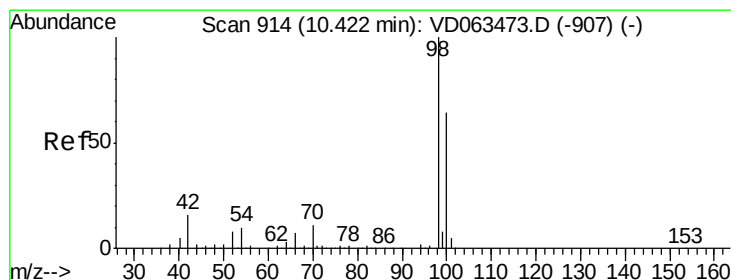
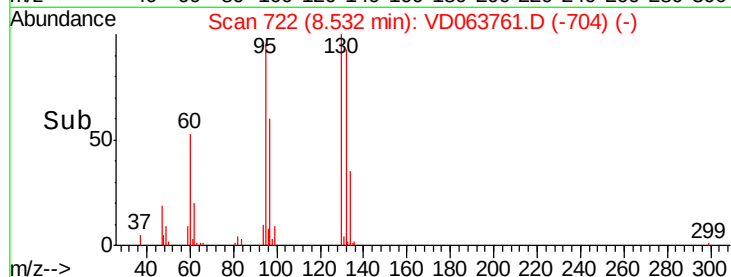
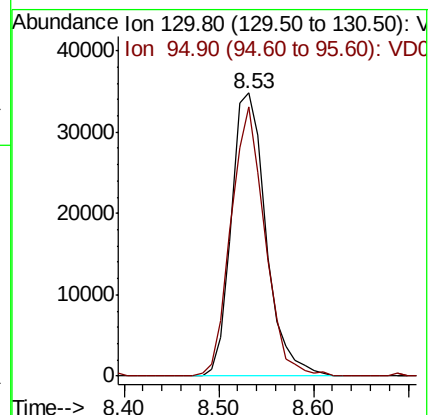
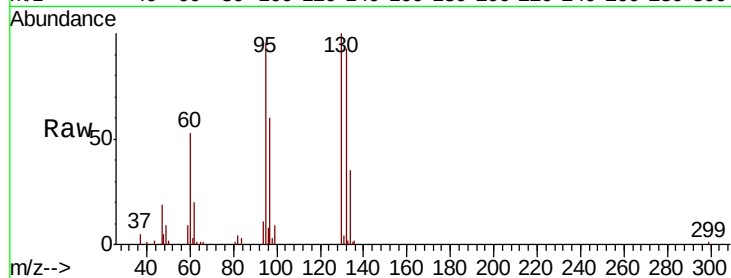
TS-1-VSRE

Tgt Ion:130 Resp: 88270

Ion Ratio Lower Upper

130 100

95 95.3 0.0 198.0



#50

Toluene-d8

Concen: 63.649 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063761.D

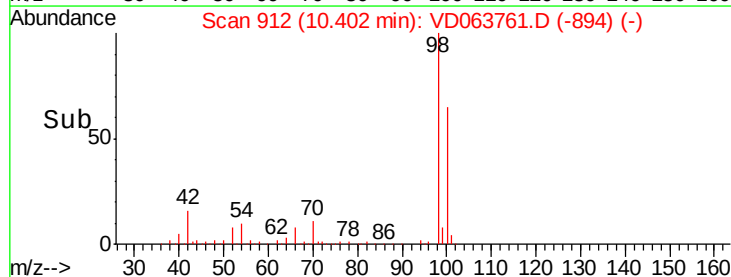
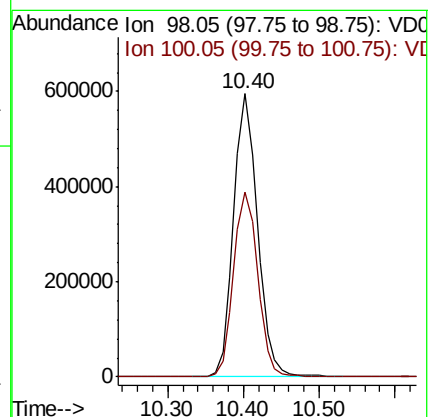
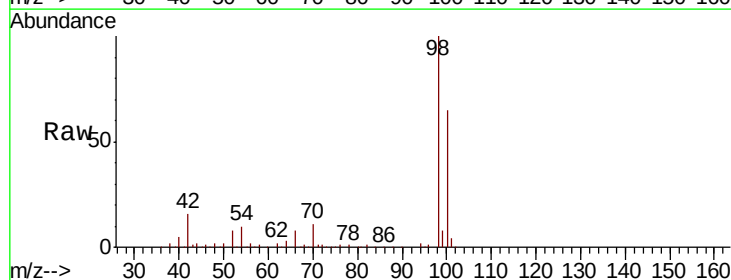
Acq: 23 Aug 2019 12:54

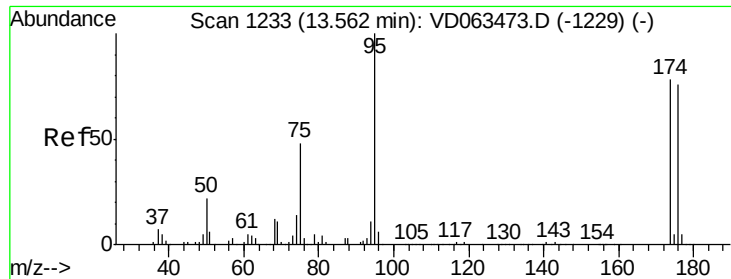
Tgt Ion: 98 Resp: 1303314

Ion Ratio Lower Upper

98 100

100 65.4 51.7 77.5

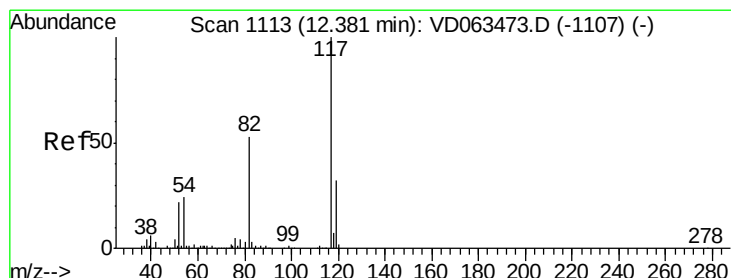
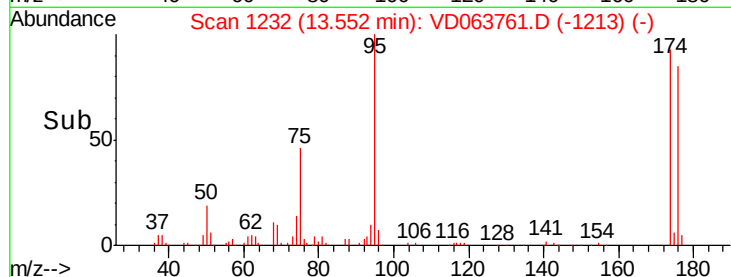
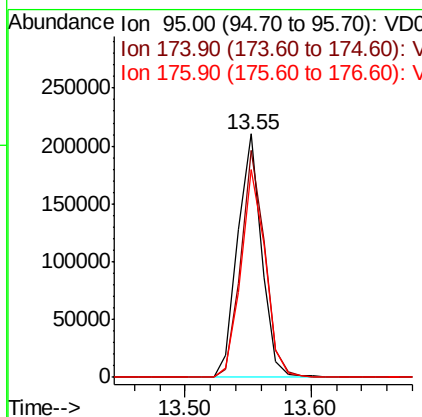
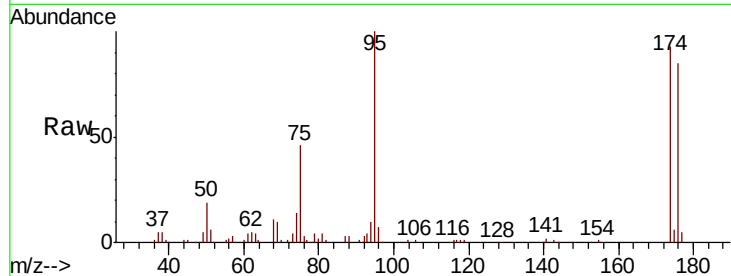




#62
4-Bromofluorobenzene
Concen: 29.507 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

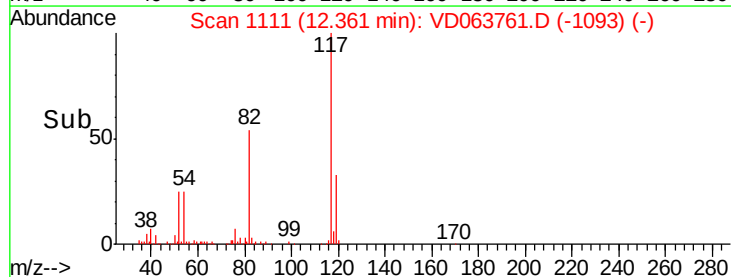
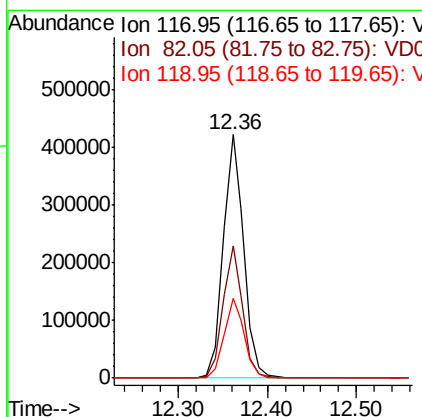
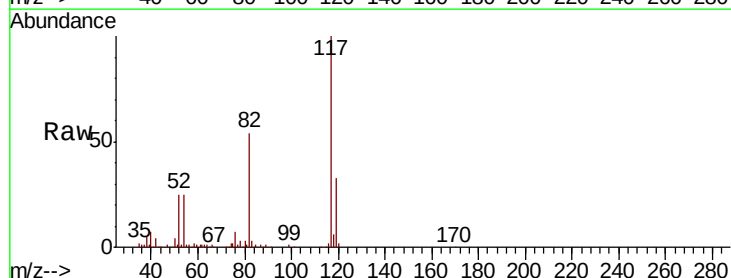
Instrument :
MSVOA_D
ClientSampleId :
TS-1-VSRE

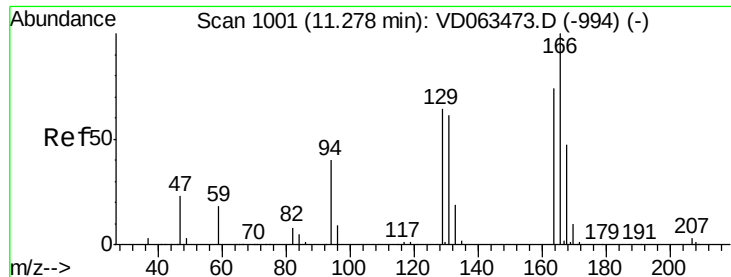
Tgt Ion: 95 Resp: 273854
Ion Ratio Lower Upper
95 100
174 93.4 0.0 155.4
176 85.5 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063761.D
Acq: 23 Aug 2019 12:54

Tgt Ion: 117 Resp: 684442
Ion Ratio Lower Upper
117 100
82 54.5 42.0 63.0
119 32.5 25.4 38.0





#64

Tetrachloroethene

Concen: 21.520 ug/l

RT: 11.25 min Scan# 998

Delta R.T. -0.03 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VSRE

Tgt Ion:164 Resp: 113703

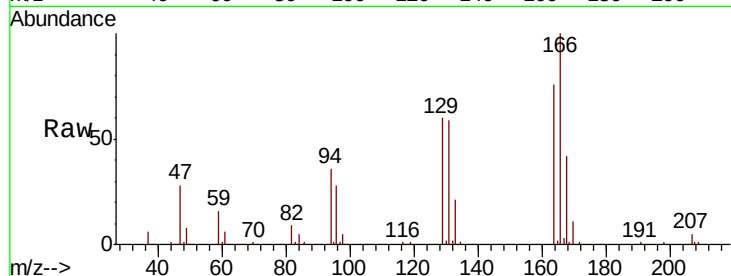
Ion Ratio Lower Upper

164 100

166 132.2 108.6 163.0

129 79.5 69.0 103.6

131 78.1 66.6 99.8

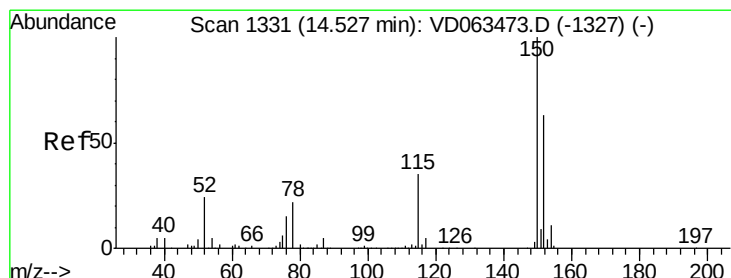
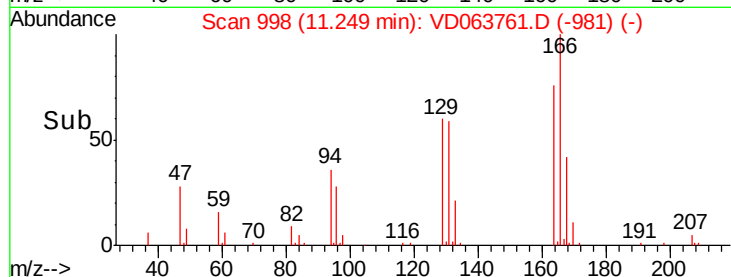
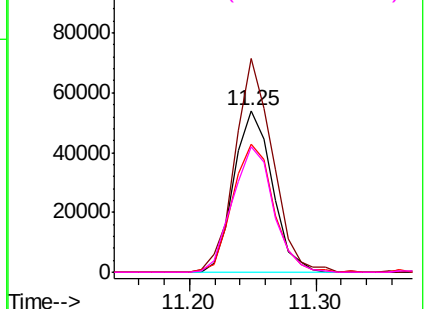


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VD063761.D

Acq: 23 Aug 2019 12:54

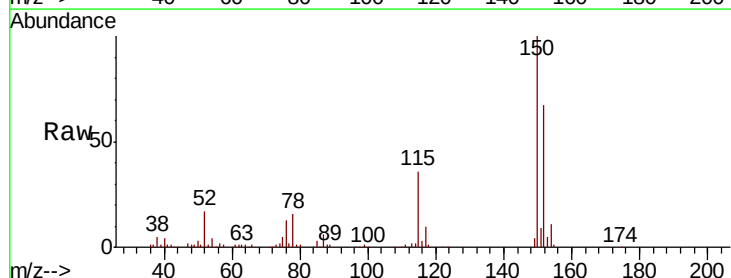
Tgt Ion:152 Resp: 142129

Ion Ratio Lower Upper

152 100

115 54.7 30.9 92.7

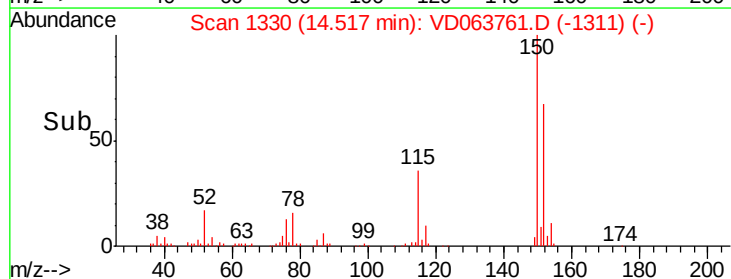
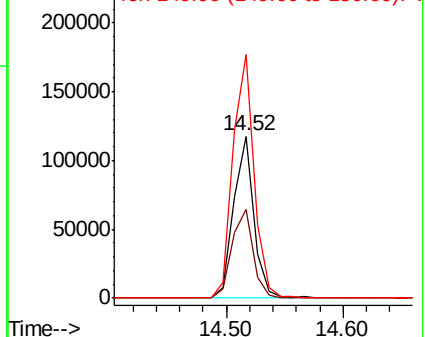
150 150.3 0.0 318.6

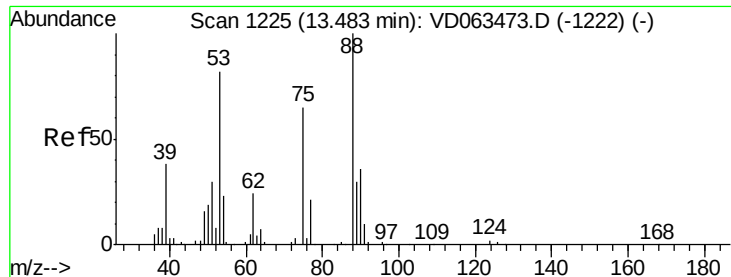


Abundance Ion 151.90 (151.60 to 152.60): V

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: 274.119 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063761.D

Acq: 23 Aug 2019 12:54

Instrument :

MSVOA_D

ClientSampleId :

TS-1-VSRE

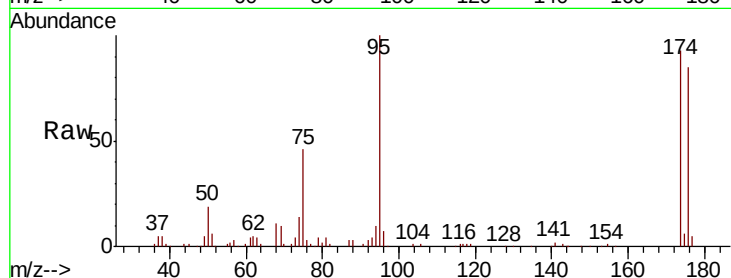
Tgt Ion: 75 Resp: 120178

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

