

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081319\
 Data File : VD063532.D
 Acq On : 13 Aug 2019 17:31
 Operator : JC/SY
 Sample : K4096-01
 Misc : 3.60u/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 14 08:29:14 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	7.05	168	37389	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	56812	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	56992	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	31502	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	24020	60.10	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	120.20%	
35) Dibromofluoromethane	6.92	113	22802	47.66	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	95.32%	
50) Toluene-d8	10.41	98	44926	42.71	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	85.42%	
62) 4-Bromofluorobenzene	13.56	95	24070	50.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.96%	

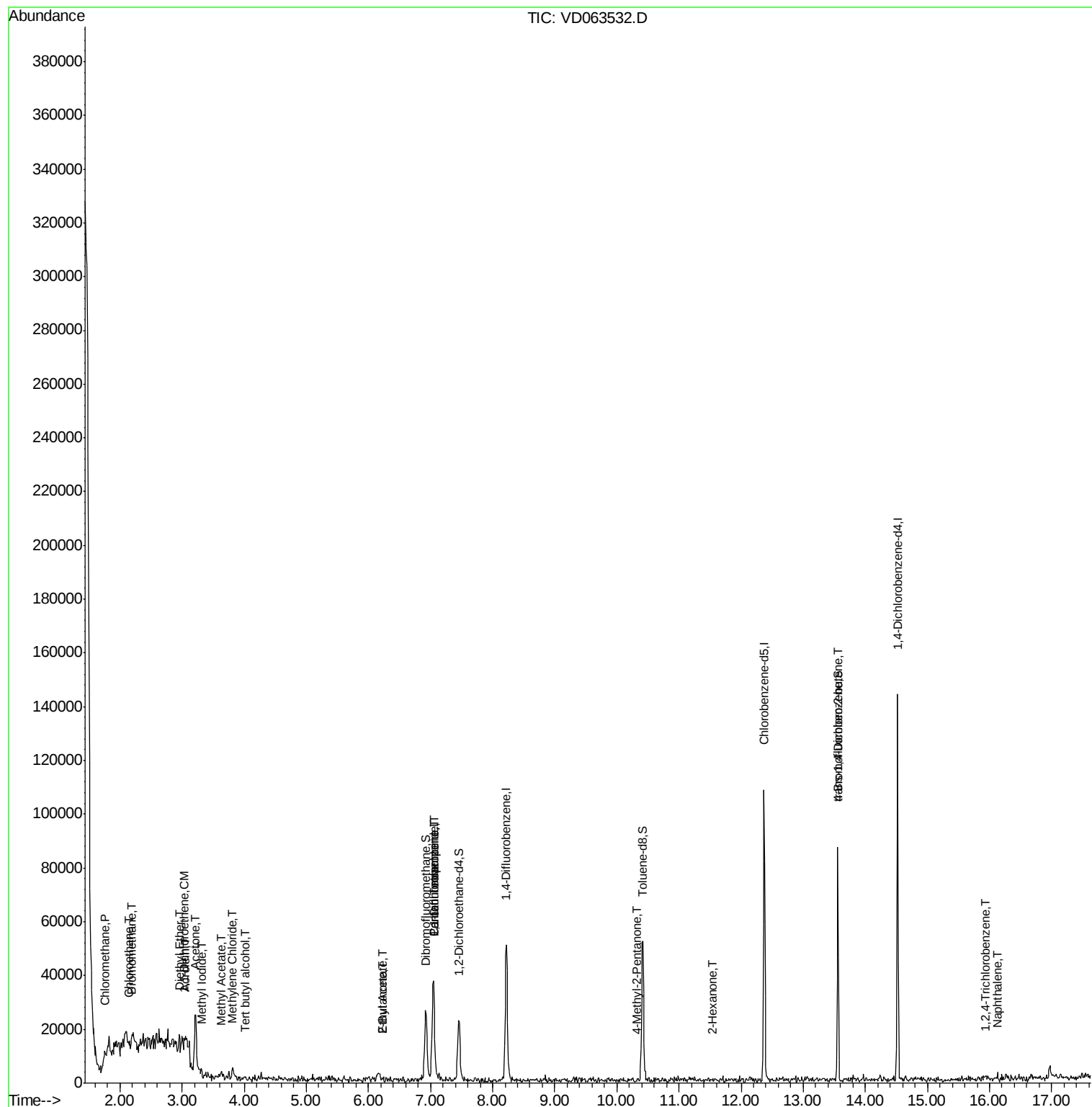
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	755	2.136	ug/l	89
5) Bromomethane	2.18	94	1559	9.417	ug/l #	11
6) Chloroethane	2.14	64	264	1.645	ug/l #	1
8) Diethyl Ether	2.95	74	209	2.151	ug/l #	22
10) Methyl Iodide	3.32	142	663	1.153	ug/l #	92
11) Tert butyl alcohol	4.01	59	347	19.945	ug/l #	71
12) 1,1-Dichloroethene	3.03	96	431	1.427	ug/l #	1
13) Acrolein	3.05	56	264	15.416	ug/l	91
16) Acetone	3.21	43	40337	496.499	ug/l #	88
18) Methyl Acetate	3.63	43	2221	14.433	ug/l #	77
20) Methylene Chloride	3.80	84	1582	4.503	ug/l #	43
25) 2-Butanone	6.21	43	268	3.340	ug/l #	58
36) 1,1-Dichloropropene	7.04	75	3423	6.816	ug/l #	42
37) Ethyl Acetate	6.21	43	267	1.269	ug/l #	73
38) Carbon Tetrachloride	7.04	117	3638	4.806	ug/l #	13
51) 4-Methyl-2-Pentanone	10.34	43	340	1.763	ug/l #	40
59) 2-Hexanone	11.54	43	351	2.501	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.56	75	7807	80.342	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	650	1.051	ug/l #	10
95) Naphthalene	16.13	128	1117	1.192	ug/l #	68

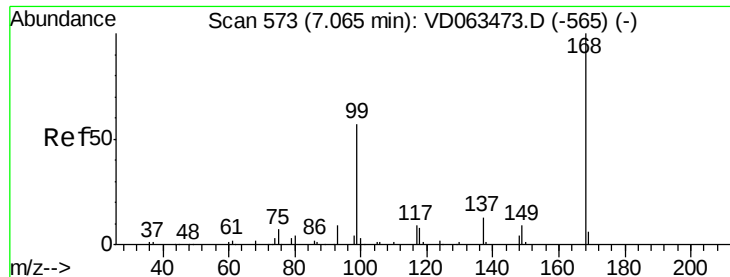
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

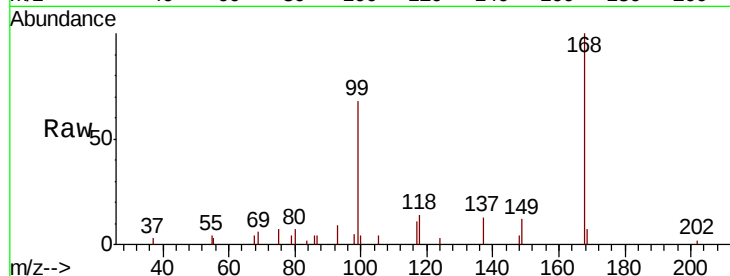
ClientSampleId :

Tot Ion:168 Resp: 37389

Ion Ratio Lower Upper

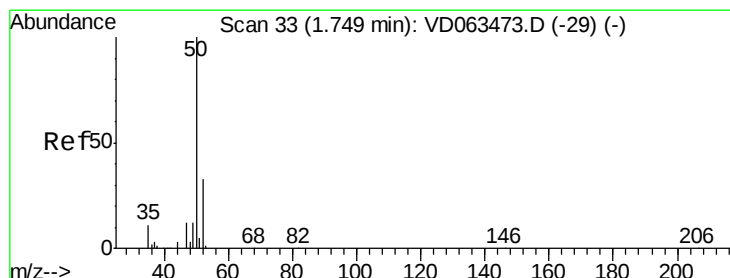
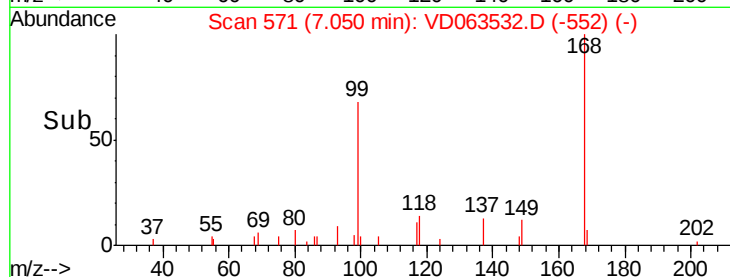
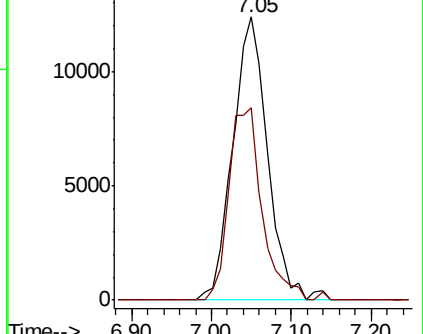
168 100

99 68.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.136 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063532.D

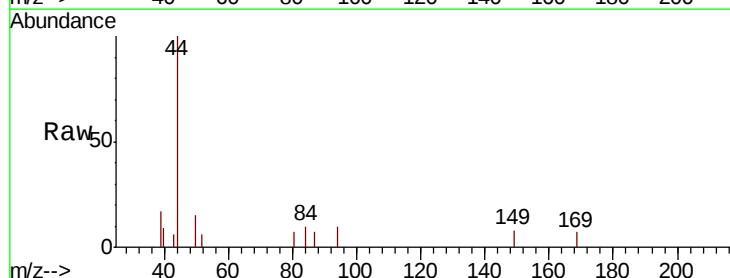
Acq: 13 Aug 2019 17:31

Tgt Ion: 50 Resp: 755

Ion Ratio Lower Upper

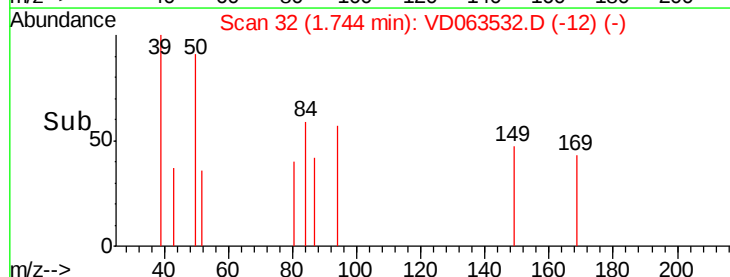
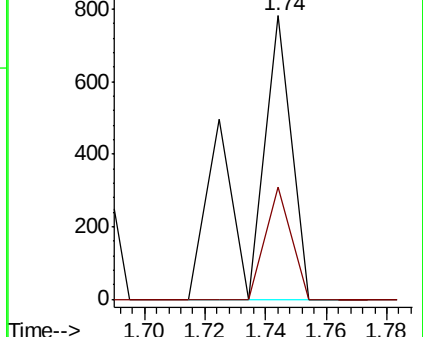
50 100

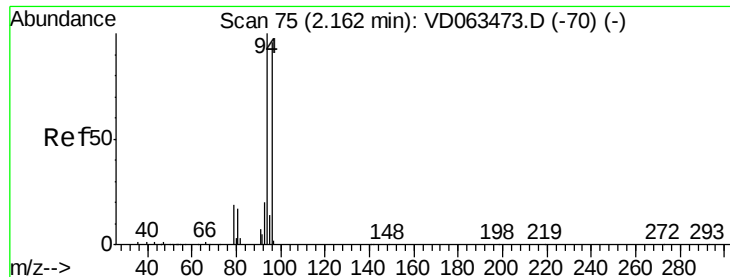
52 39.5 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 9.417 ug/l

RT: 2.18 min Scan# 76

Delta R.T. 0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

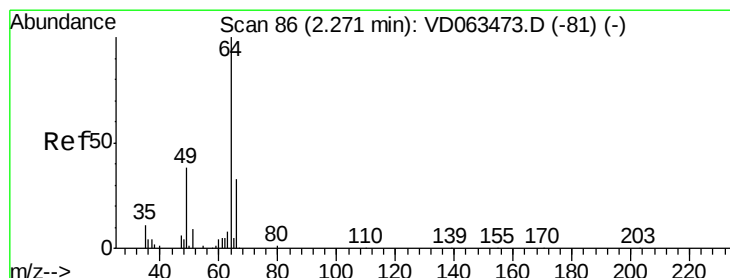
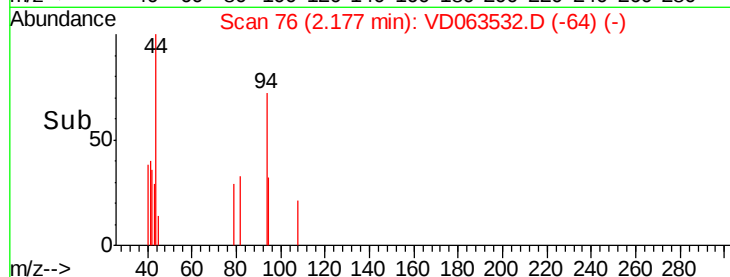
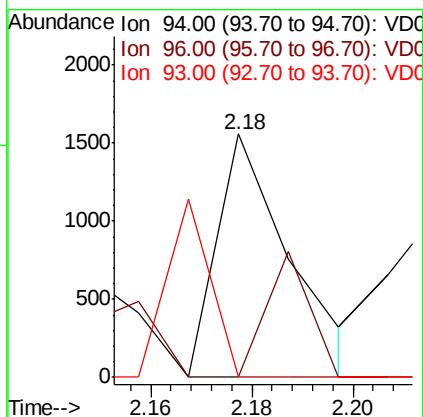
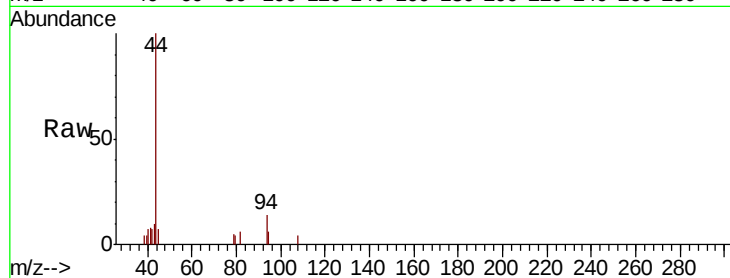
Tot Ion: 94 Resp: 1559

Ion Ratio Lower Upper

94 100

96 0.0 76.5 114.7#

93 0.0 15.8 23.8#



#6

Chloroethane

Concen: 1.645 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.13 min

Lab File: VD063532.D

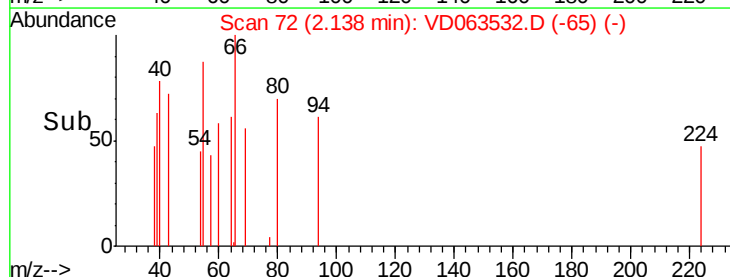
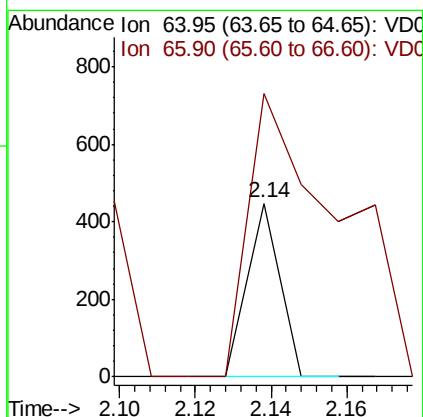
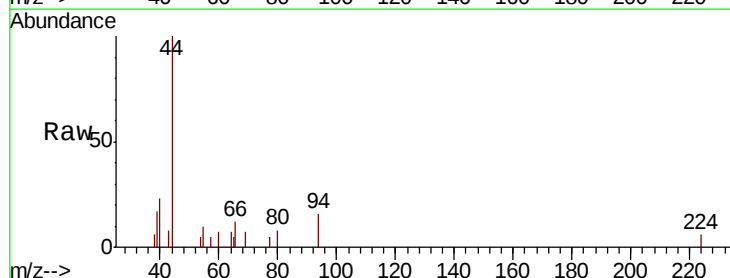
Acq: 13 Aug 2019 17:31

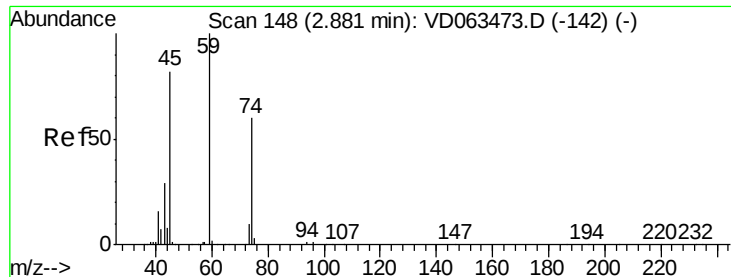
Tgt Ion: 64 Resp: 264

Ion Ratio Lower Upper

64 100

66 163.3 26.3 39.5#

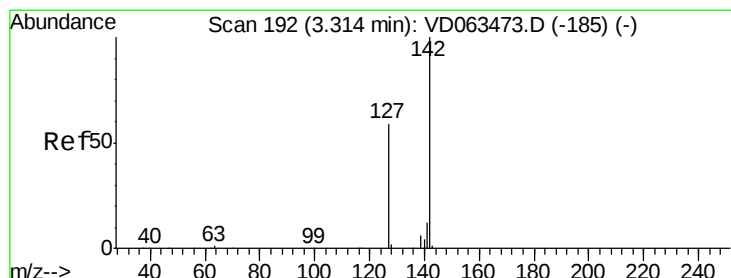
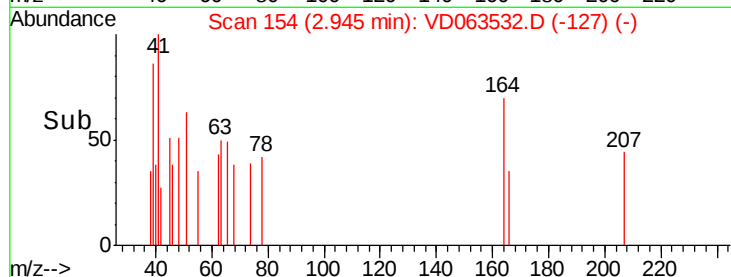
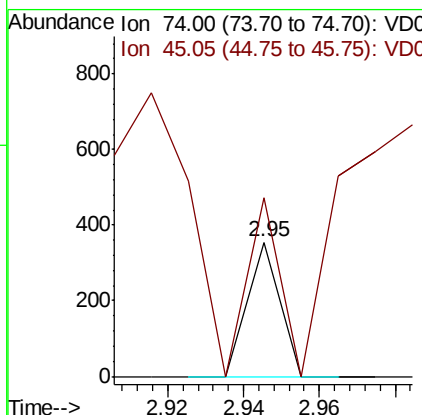
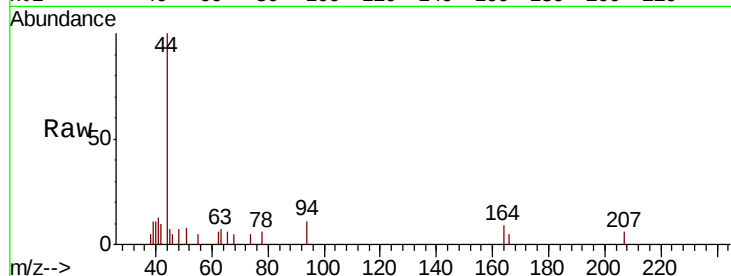




#8
Diethyl Ether
Concen: 2.151 ug/l
RT: 2.95 min Scan# 154
Delta R.T. 0.06 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

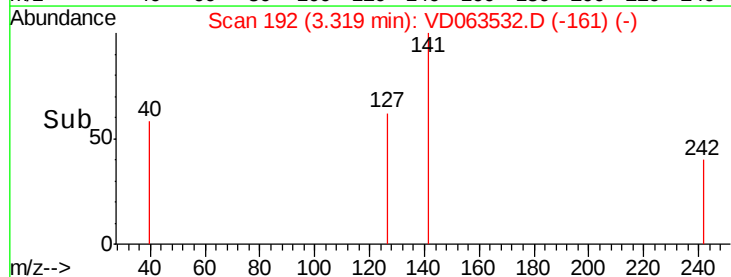
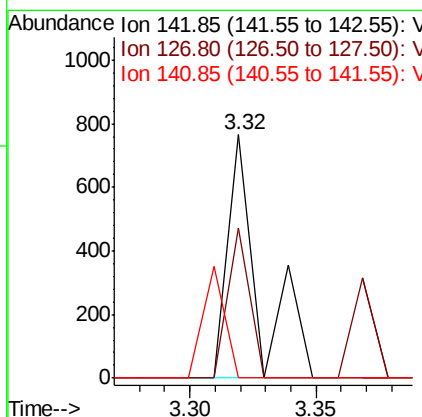
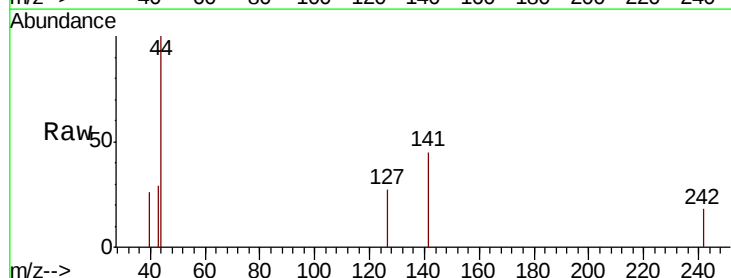
Instrument :
MSVOA_D
ClientSampled :

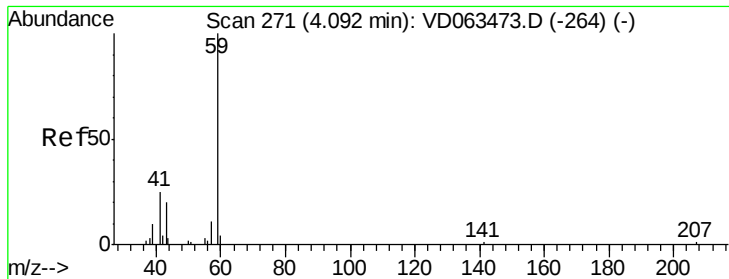
Tot Ion: 74 Resp: 209
Ion Ratio Lower Upper
74 100
45 230.8 68.5 205.5#



#10
Methyl Iodide
Concen: 1.153 ug/l
RT: 3.32 min Scan# 192
Delta R.T. 0.01 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Tgt Ion: 142 Resp: 663
Ion Ratio Lower Upper
142 100
127 61.7 47.2 70.8
141 0.0 9.8 14.8#



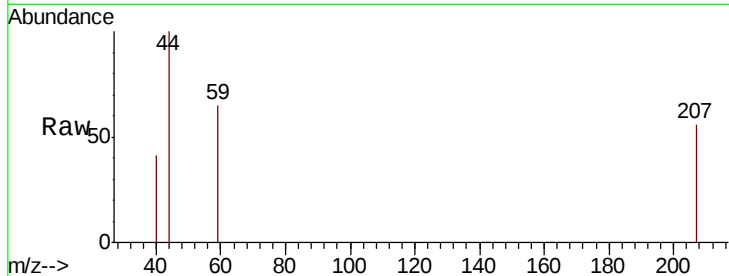


#11

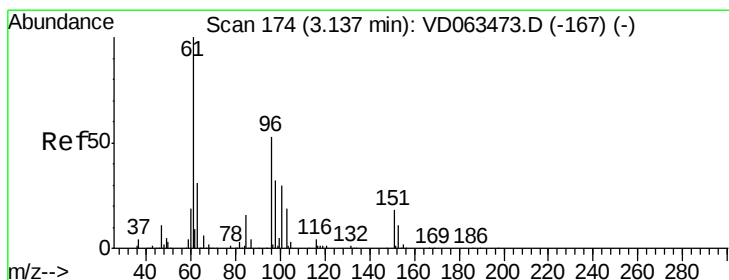
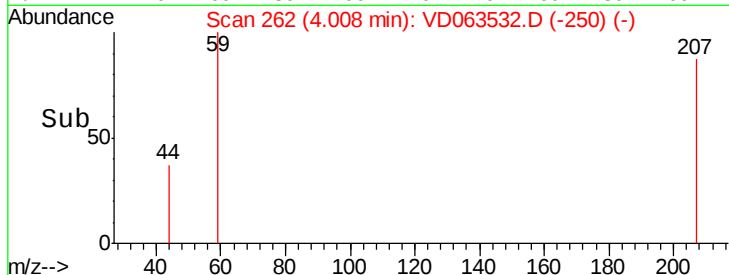
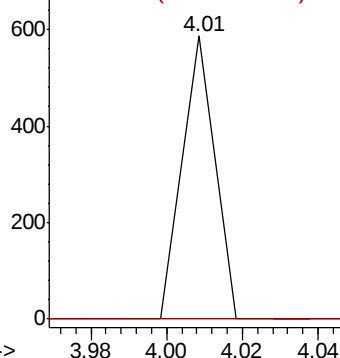
Tert butyl alcohol
Concen: 19.945 ug/l
RT: 4.01 min Scan# 262
Delta R.T. -0.08 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 59 Resp: 347
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



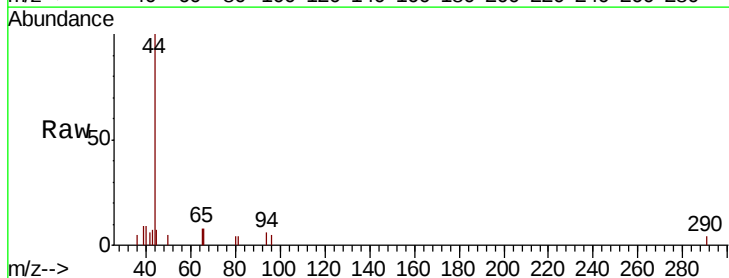
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



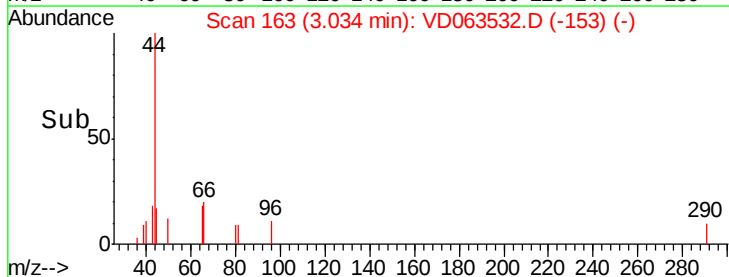
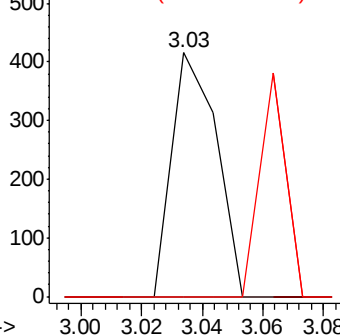
#12

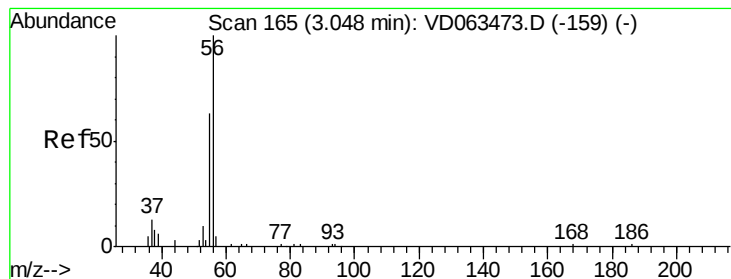
1,1-Dichloroethene
Concen: 1.427 ug/l
RT: 3.03 min Scan# 163
Delta R.T. -0.10 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Tgt Ion: 96 Resp: 431
Ion Ratio Lower Upper
96 100
61 0.0 151.7 227.5#
98 0.0 48.4 72.6#



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





#13

Acrolein

Concen: 15.416 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

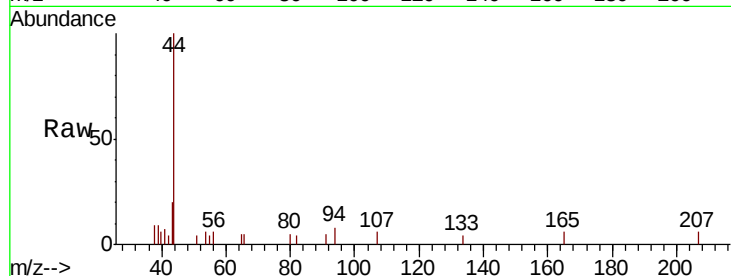
ClientSampled :

Tot Ion: 56 Resp: 264

Ion Ratio Lower Upper

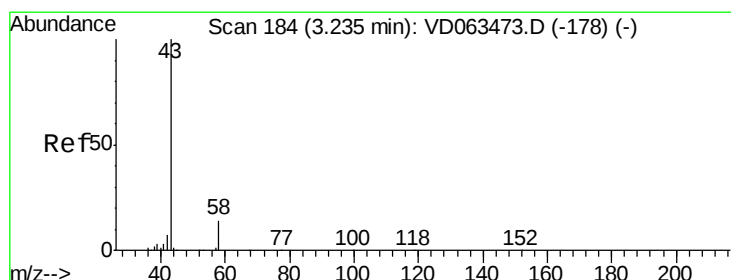
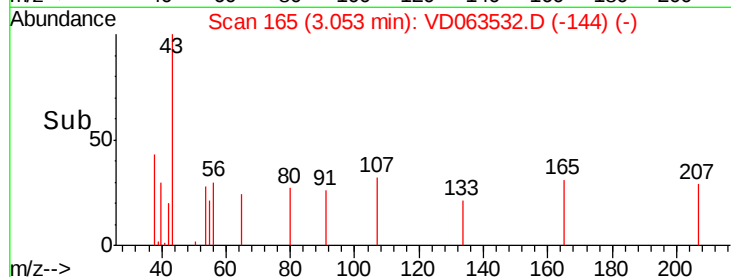
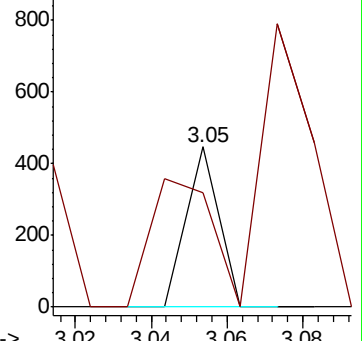
56 100

55 71.4 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 496.499 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063532.D

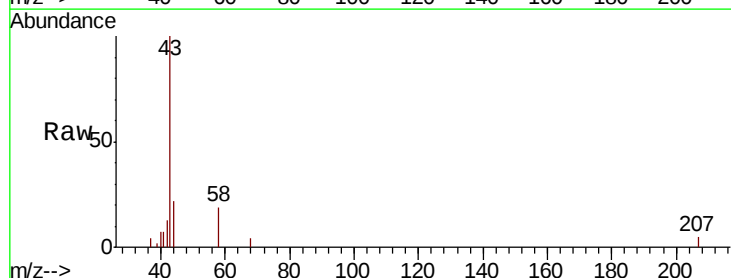
Acq: 13 Aug 2019 17:31

Tgt Ion: 43 Resp: 40337

Ion Ratio Lower Upper

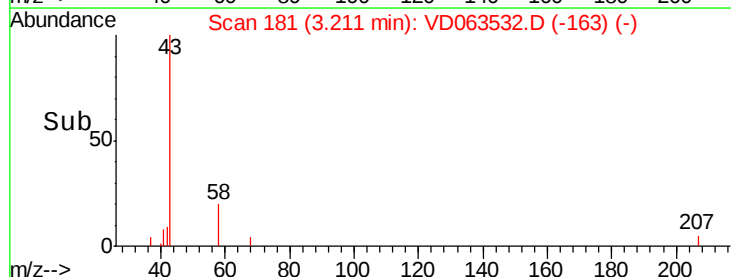
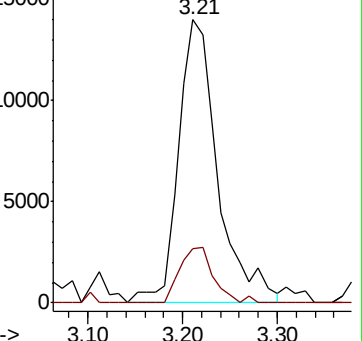
43 100

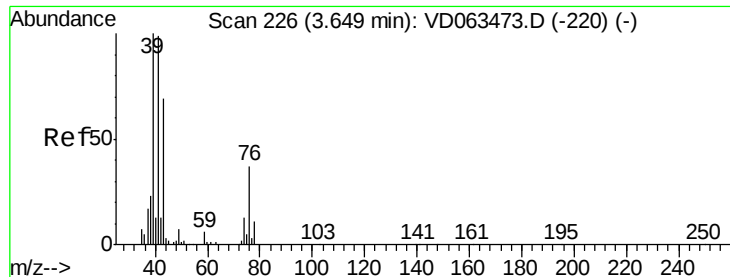
58 19.0 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

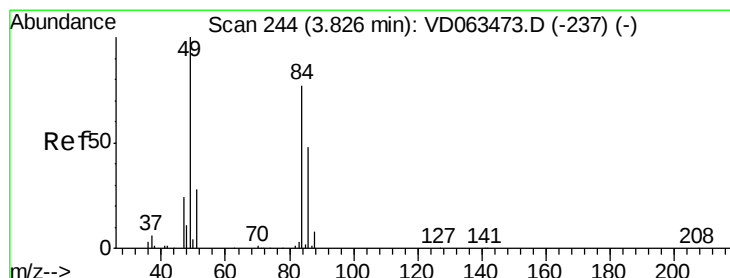
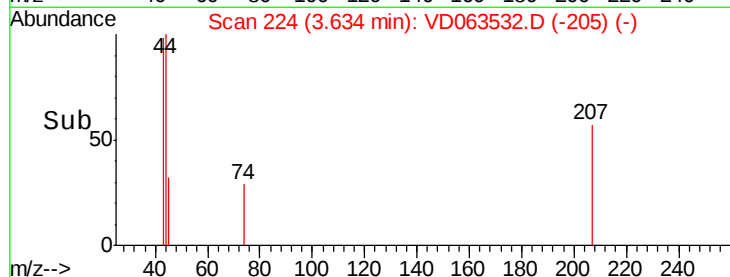
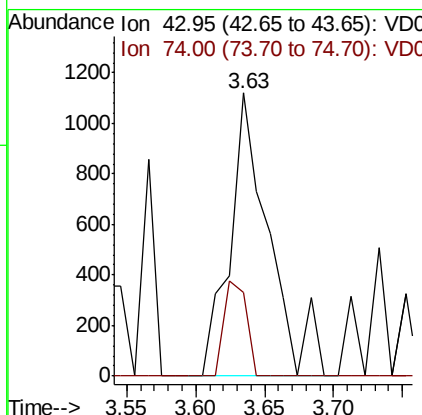
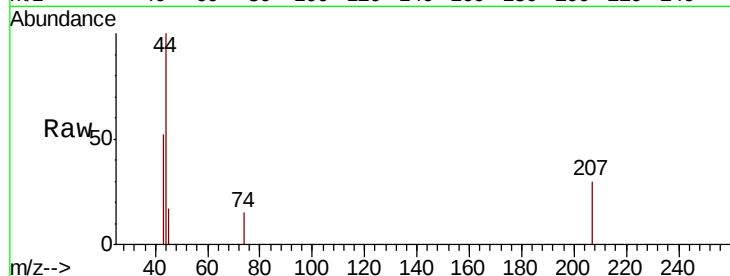




#18
Methyl Acetate
Concen: 14.433 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

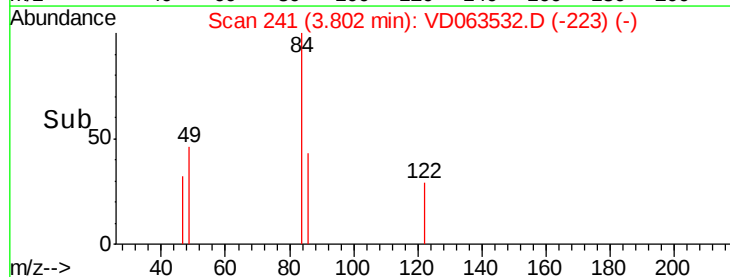
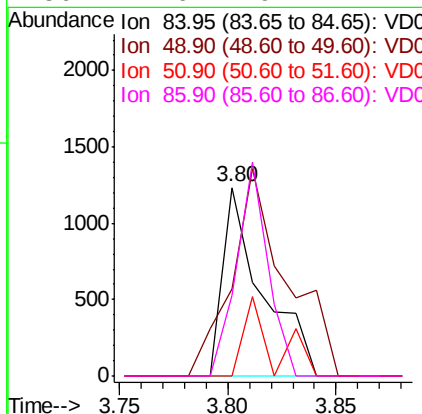
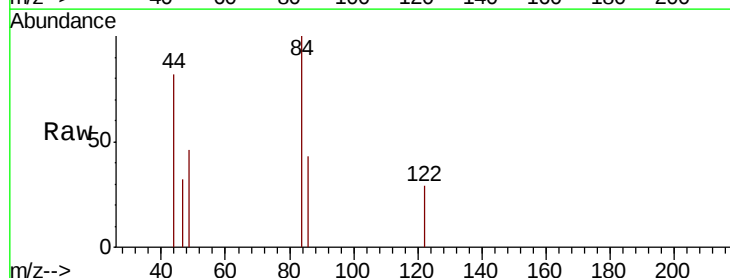
Instrument :
MSVOA_D
ClientSampleId :

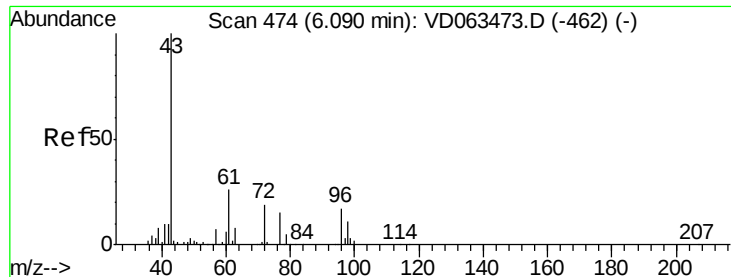
Tot Ion: 43 Resp: 2221
Ion Ratio Lower Upper
43 100
74 29.6 15.4 23.2#



#20
Methylene Chloride
Concen: 4.503 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Tgt Ion: 84 Resp: 1582
Ion Ratio Lower Upper
84 100
49 46.1 103.4 155.2#
51 0.0 28.5 42.7#
86 42.6 49.4 74.2#





#25

2-Butanone

Concen: 3.340 ug/l

RT: 6.21 min Scan# 486

Delta R.T. 0.12 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

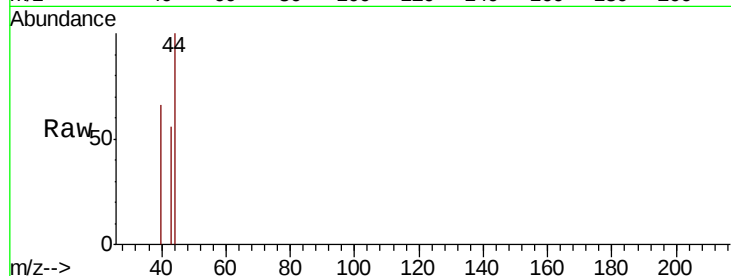
ClientSampleId :

Tot Ion: 43 Resp: 268

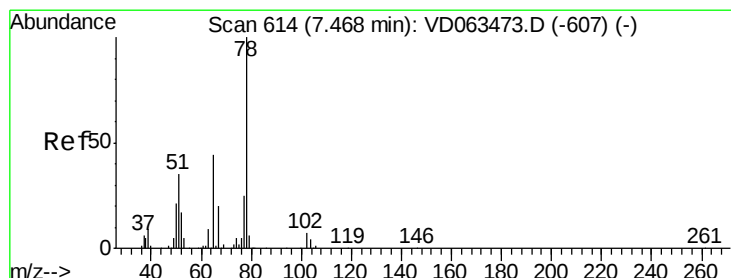
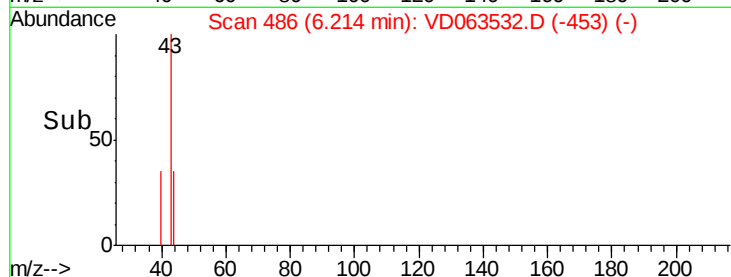
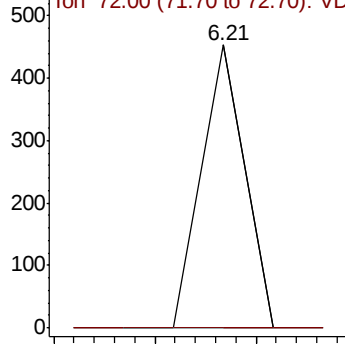
Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 60.101 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD063532.D

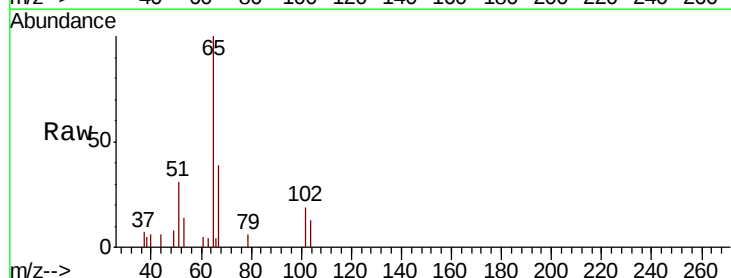
Acq: 13 Aug 2019 17:31

Tgt Ion: 65 Resp: 24020

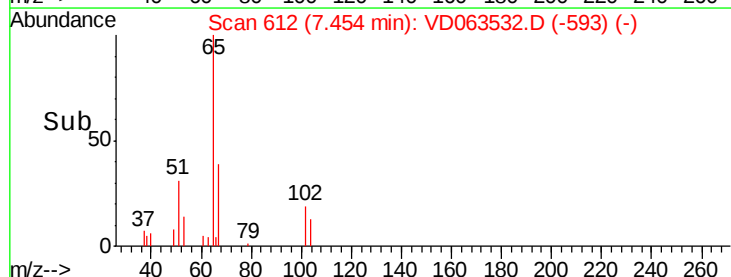
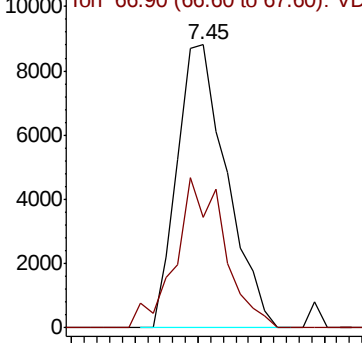
Ion Ratio Lower Upper

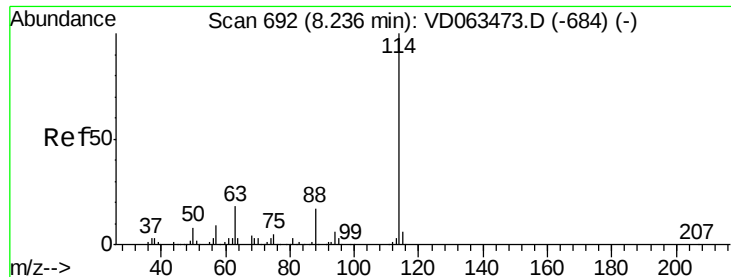
65 100

67 38.9 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

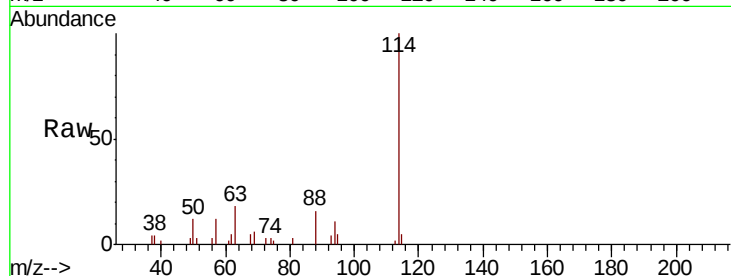
Tot Ion:114 Resp: 56812

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.2

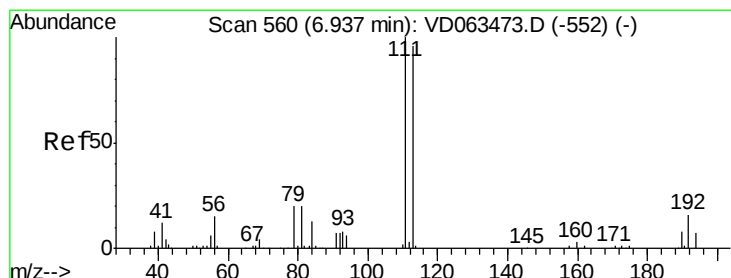
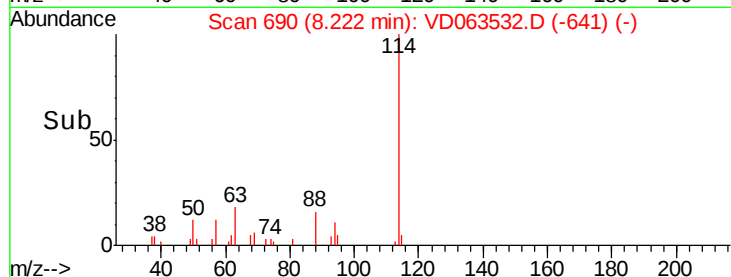
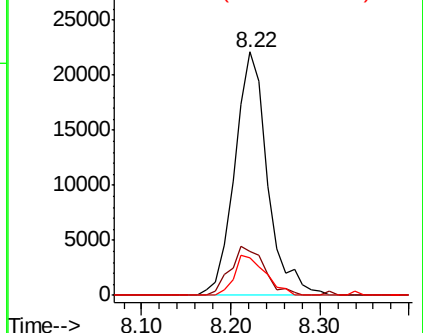
88 15.5 0.0 35.0



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: 47.656 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

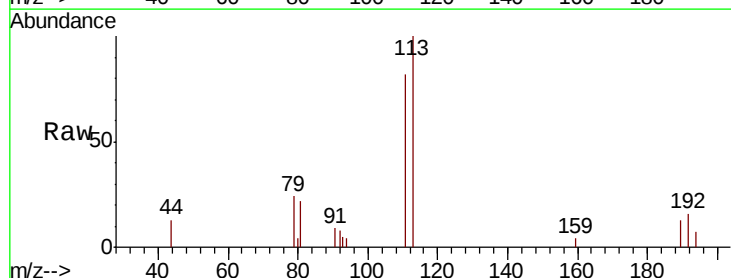
Tgt Ion:113 Resp: 22802

Ion Ratio Lower Upper

113 100

111 82.2 83.1 124.7#

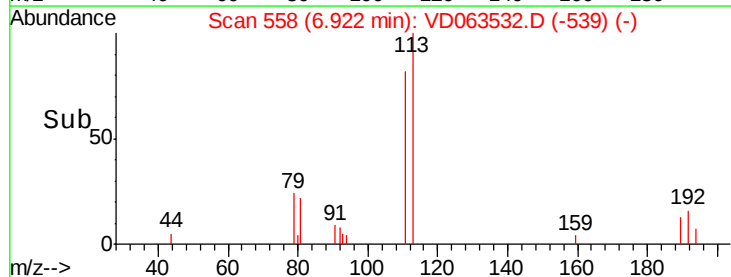
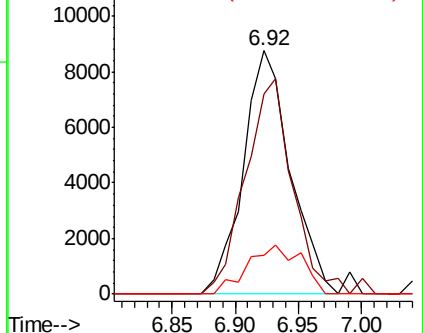
192 15.8 13.1 19.7

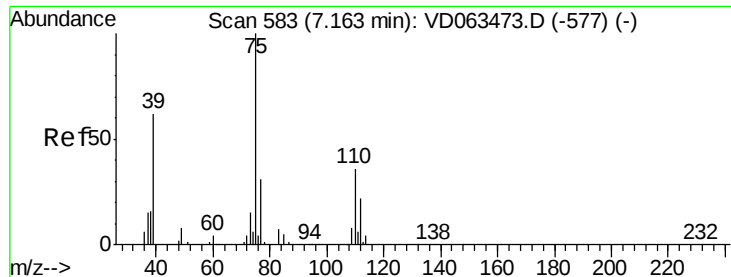


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.816 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.12 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

ClientSampled :

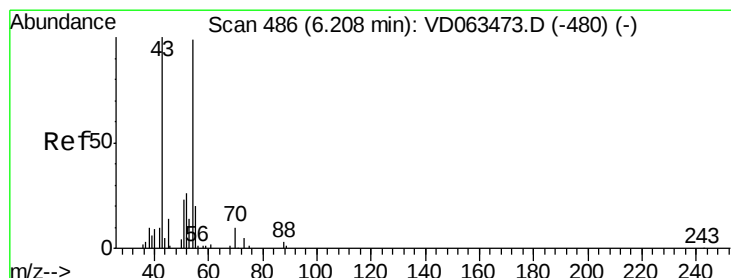
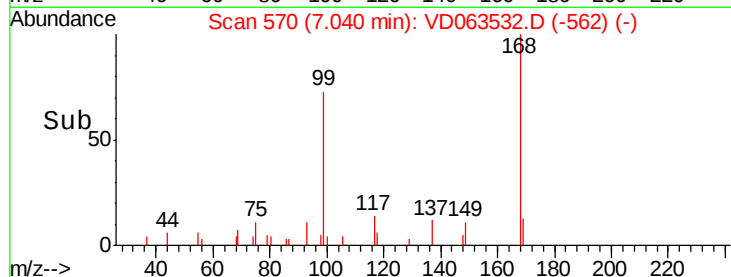
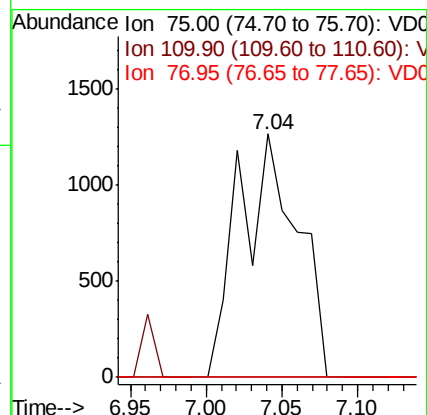
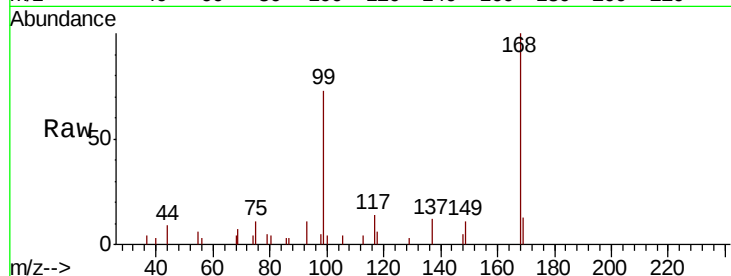
Tot Ion: 75 Resp: 3423

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 1.269 ug/l

RT: 6.21 min Scan# 486

Delta R.T. 0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

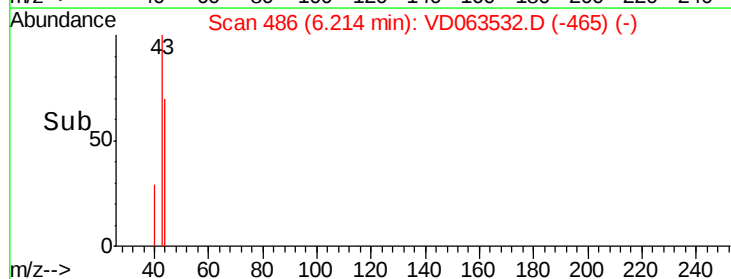
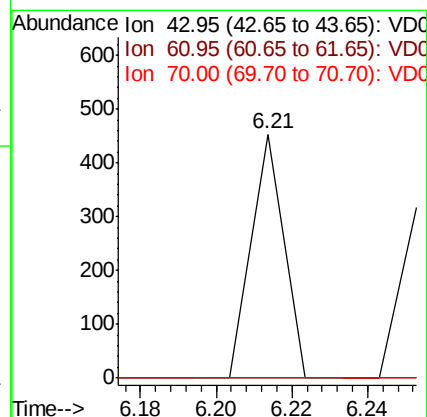
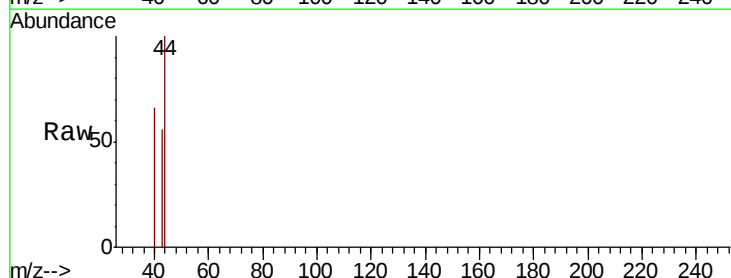
Tgt Ion: 43 Resp: 267

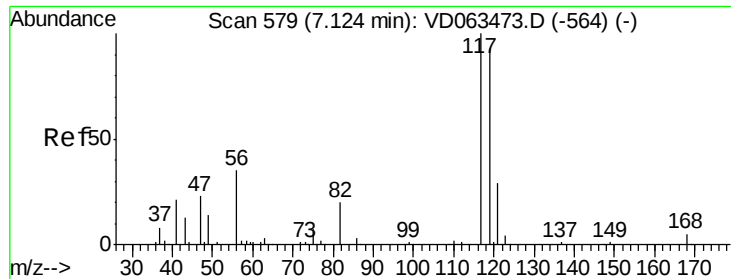
Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.6#

70 0.0 6.9 10.3#

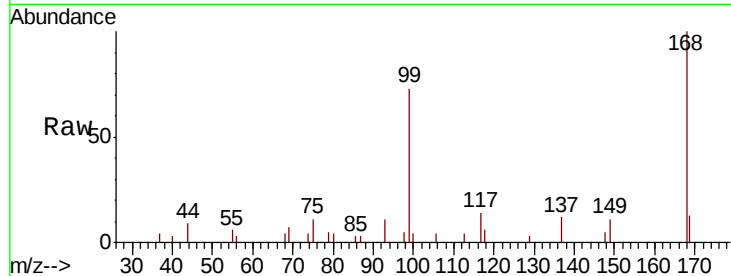




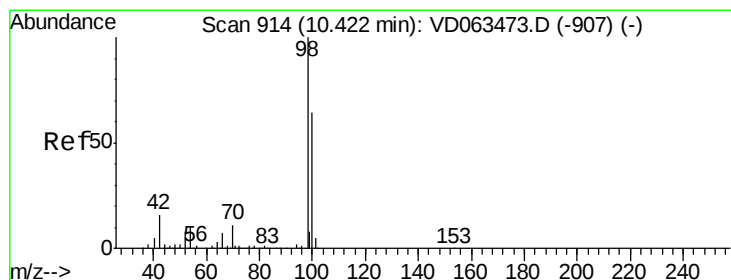
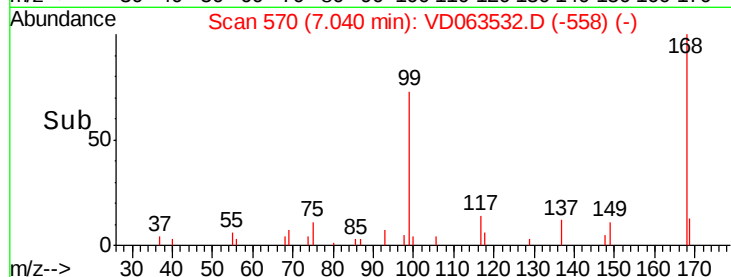
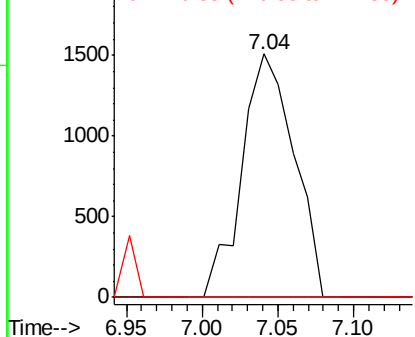
#38
Carbon Tetrachloride
Concen: 4.806 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.08 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 3638
Ion Ratio Lower Upper
117 100
119 0.0 74.2 111.2#
121 0.0 23.1 34.7#

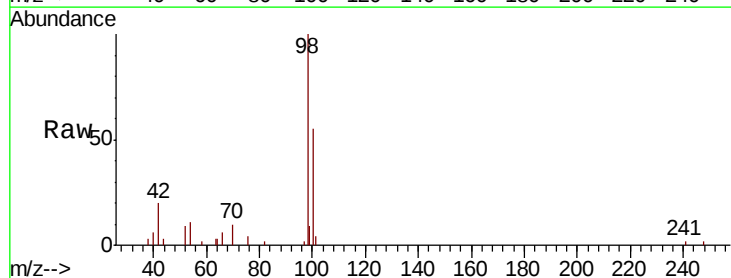


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

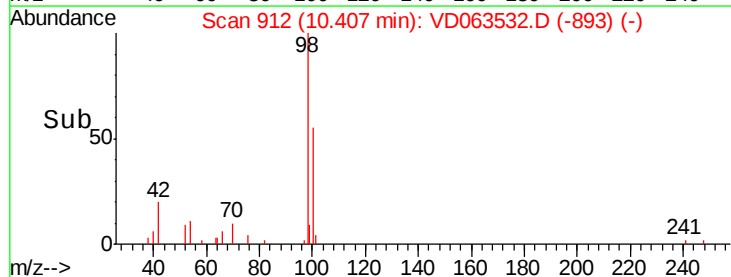
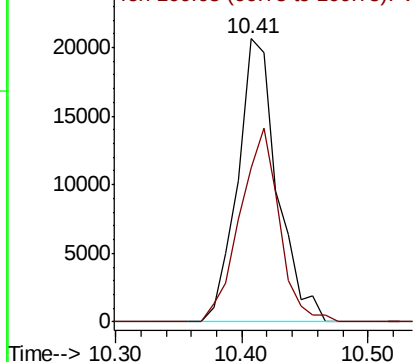


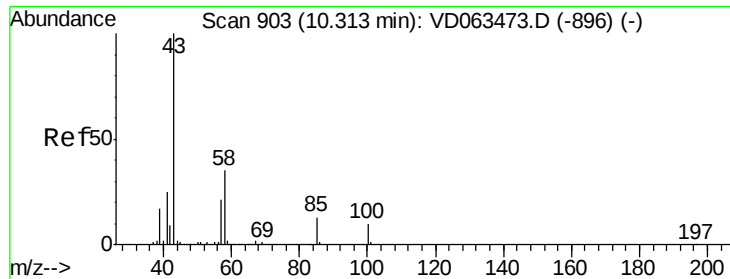
#50
Toluene-d8
Concen: 42.707 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Tgt Ion: 98 Resp: 44926
Ion Ratio Lower Upper
98 100
100 54.6 51.7 77.5



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





#51

4-Methyl-2-Pentanone

Concen: 1.763 ug/l

RT: 10.34 min Scan# 905

Delta R.T. 0.02 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

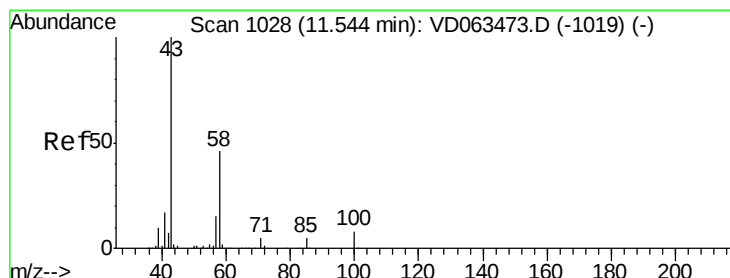
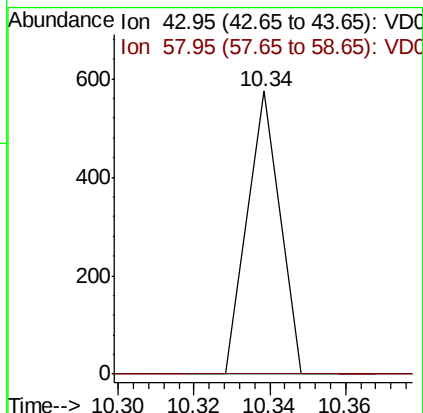
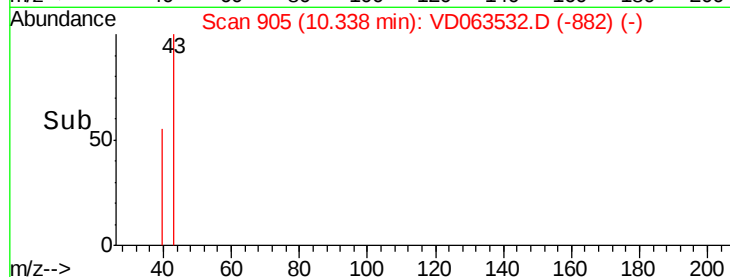
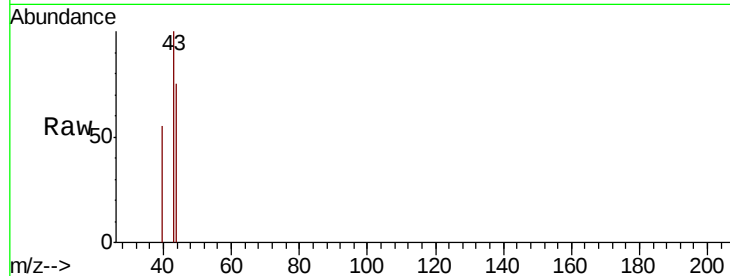
ClientSampleId :

Tot Ion: 43 Resp: 340

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



#59

2-Hexanone

Concen: 2.501 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VD063532.D

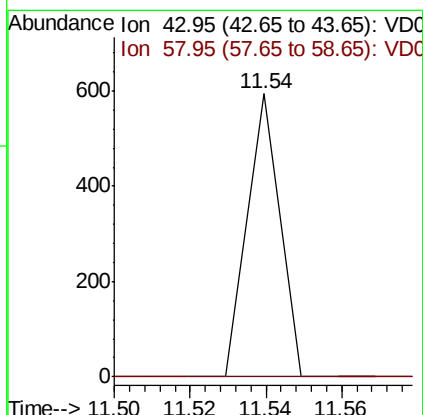
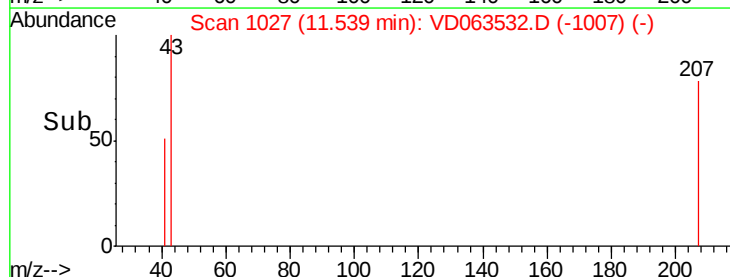
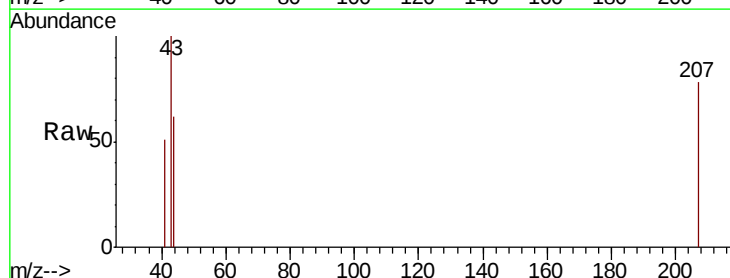
Acq: 13 Aug 2019 17:31

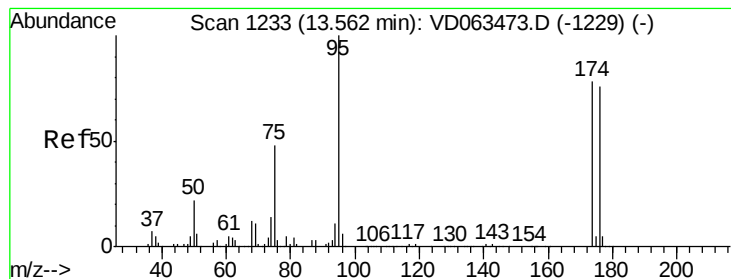
Tgt Ion: 43 Resp: 351

Ion Ratio Lower Upper

43 100

58 0.0 23.1 69.2#





#62

4-Bromofluorobenzene

Concen: 50.484 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

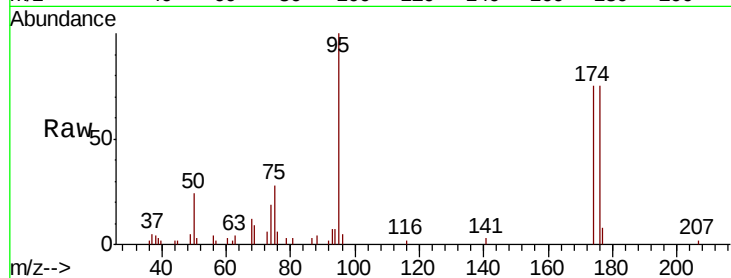
Tot Ion: 95 Resp: 24070

Ion Ratio Lower Upper

95 100

174 75.3 0.0 155.4

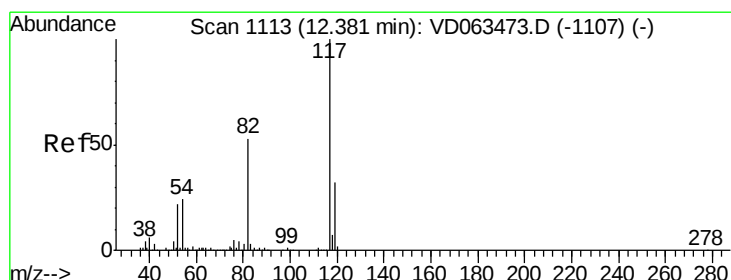
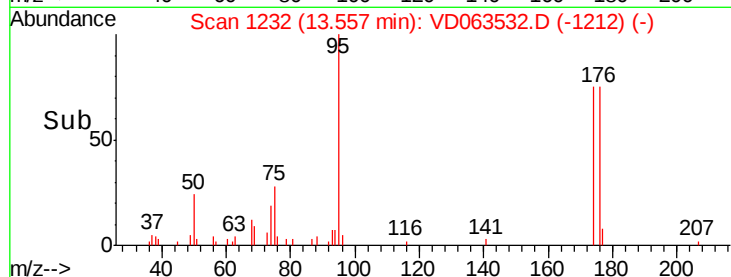
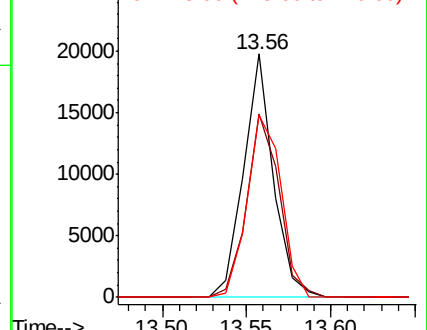
176 74.8 0.0 152.4



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# 1111

Delta R.T. -0.01 min

Lab File: VD063532.D

Acq: 13 Aug 2019 17:31

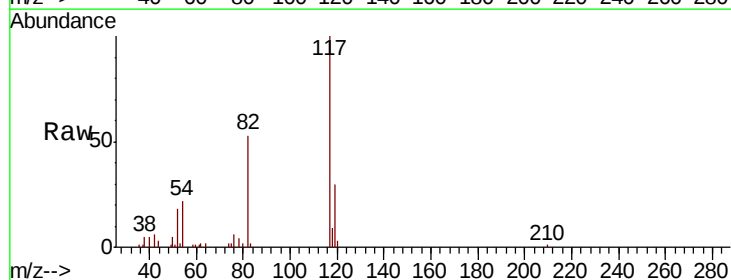
Tgt Ion: 117 Resp: 56992

Ion Ratio Lower Upper

117 100

82 53.2 42.0 63.0

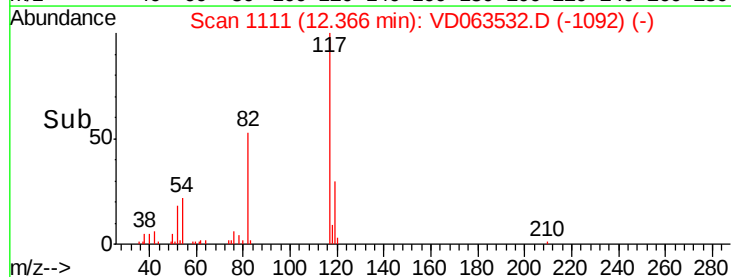
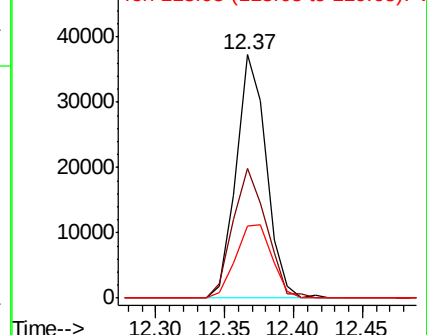
119 29.6 25.4 38.0

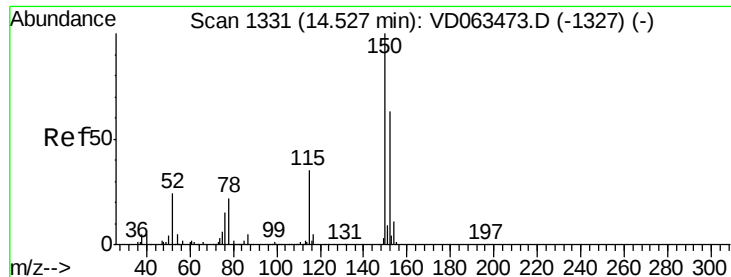


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



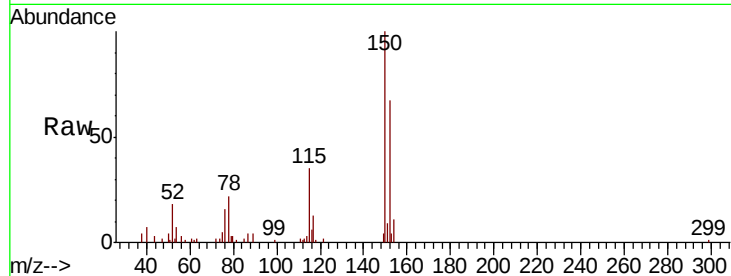


#72

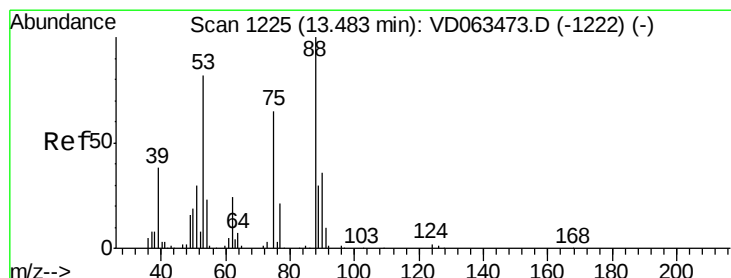
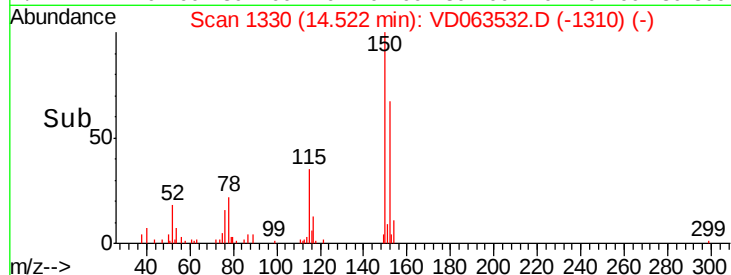
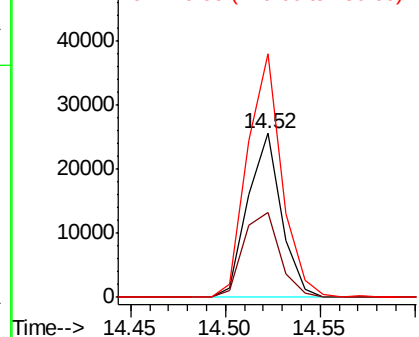
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	51.8	30.9	92.7
150	148.4	0.0	318.6



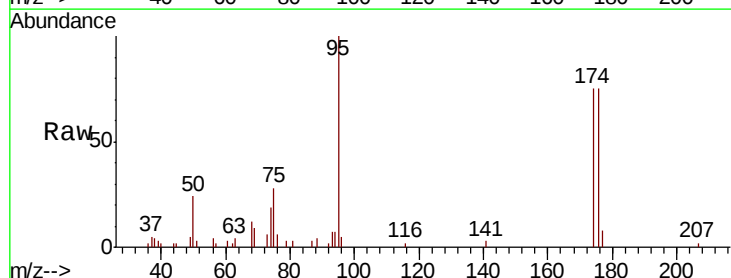
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



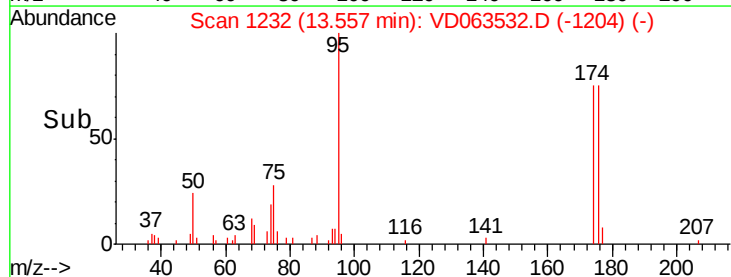
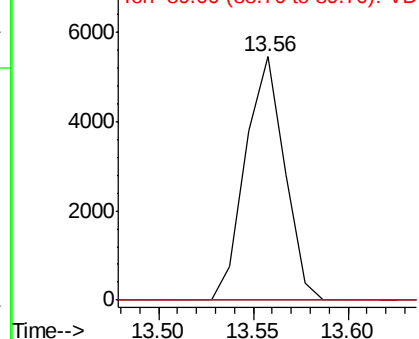
#81

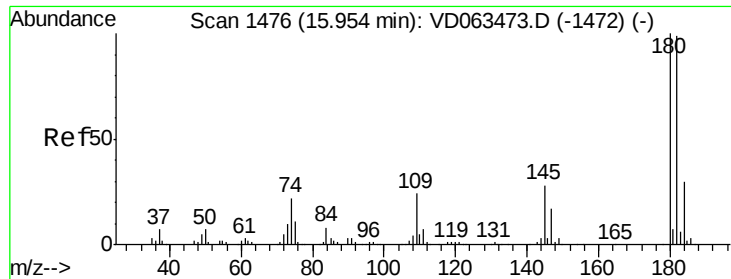
trans-1,4-Dichloro-2-butene
Concen: 80.342 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.07 min
Lab File: VD063532.D
Acq: 13 Aug 2019 17:31

Tgt 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

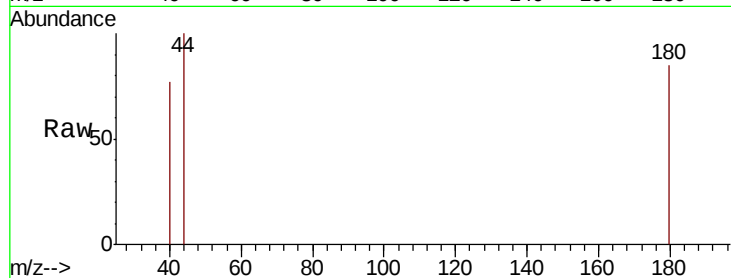




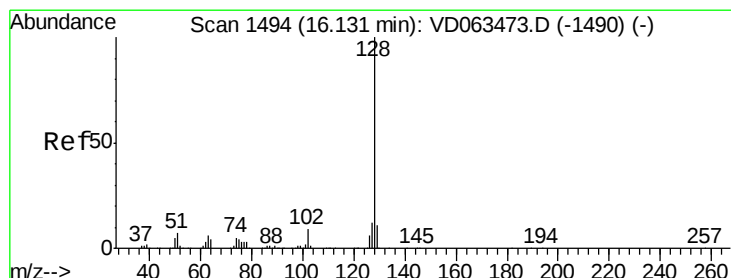
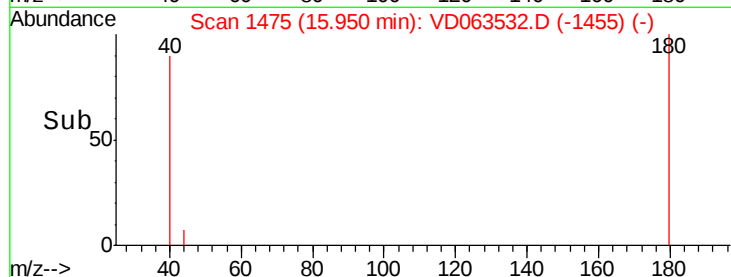
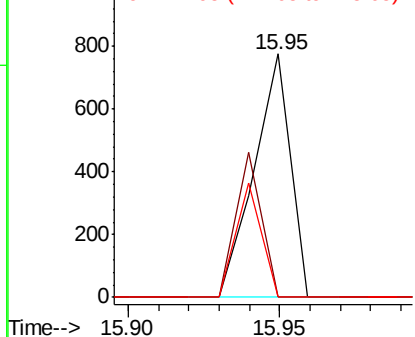
#93
 1,2,4-Trichlorobenzene
 Concen: 1.051 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063532.D
 Acq: 13 Aug 2019 17:31

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 650
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.7 149.1#
 145 0.0 14.1 42.2#

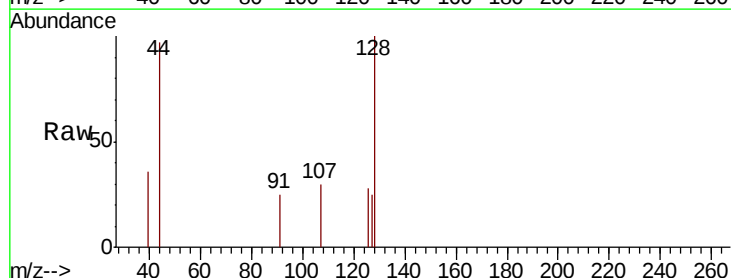


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 1.192 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD063532.D
 Acq: 13 Aug 2019 17:31

Tgt Ion:128 Resp: 1117
 Ion Ratio Lower Upper
 128 100
 127 25.2 9.4 14.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

