

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\
 Data File : VD063920.D
 Acq On : 10 Oct 2019 19:56
 Operator : VA/SY
 Sample : K5297-14
 Misc : 6.80G/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 11 07:41:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	163187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	290128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	286879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	136665	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	93465	58.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.66%	
35) Dibromofluoromethane	7.92	113	91852	51.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.60%	
50) Toluene-d8	10.34	98	379278	52.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.40%	
62) 4-Bromofluorobenzene	12.63	95	116347	46.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.04%	

Target Compounds

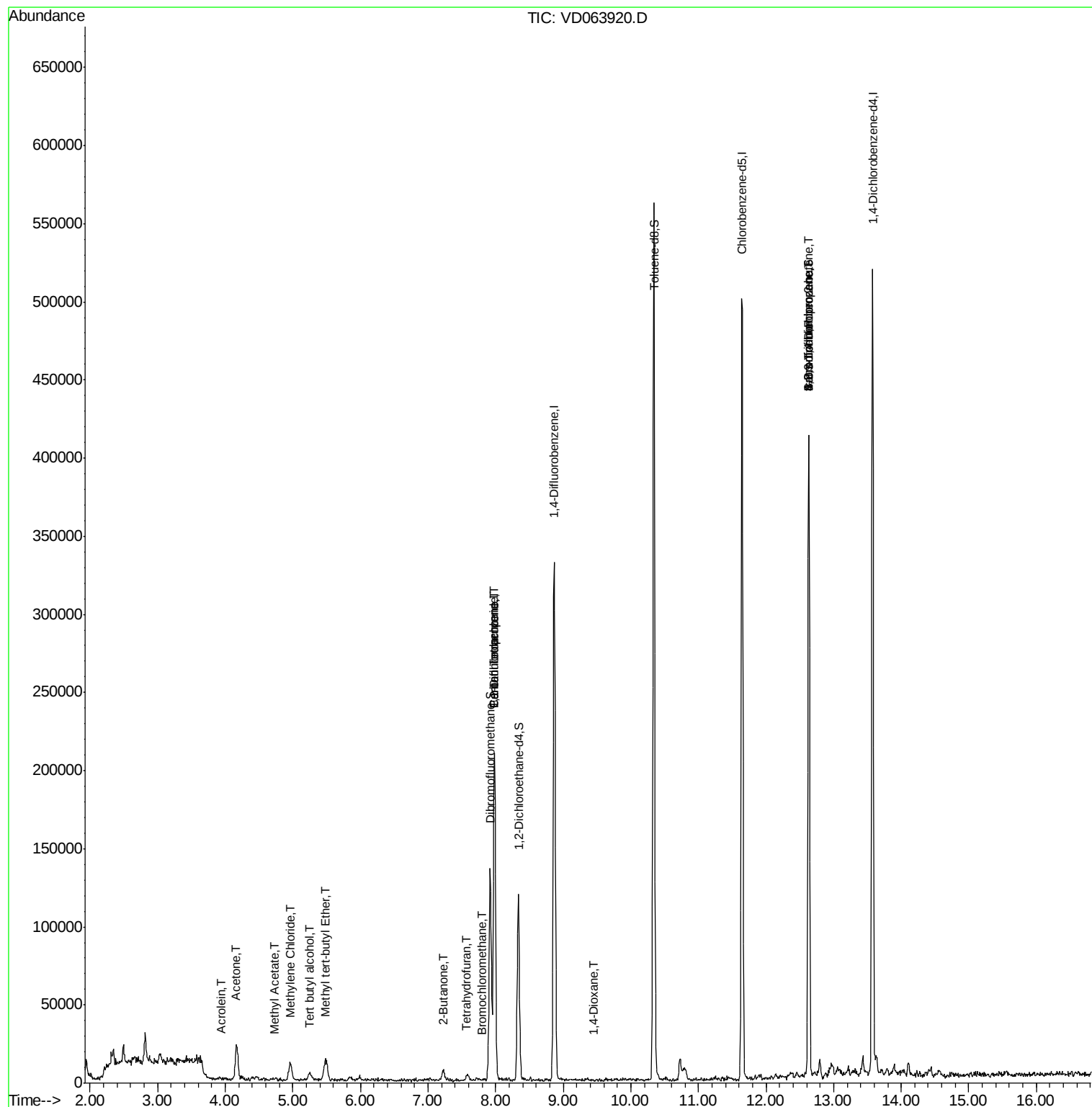
						Qvalue
3) Chloromethane	2.20	50	523	Below Cal	#	40
11) Tert butyl alcohol	5.26	59	8113	67.655	ug/l	97
13) Acrolein	3.94	56	433	3.052	ug/l #	42
16) Acetone	4.16	43	39919	96.507	ug/l	91
18) Methyl Acetate	4.73	43	1655	2.046	ug/l	95
19) Methyl tert-butyl Ether	5.47	73	8913	2.517	ug/l	91
20) Methylene Chloride	4.96	84	7889	1.371	ug/l	87
25) 2-Butanone	7.23	43	7626	15.557	ug/l #	81
28) Bromochloromethane	7.80	49	155	2.001	ug/l #	10
29) Tetrahydrofuran	7.57	42	1542	5.389	ug/l #	79
31) Cyclohexane	7.98	56	3768	Below Cal	#	1
36) 1,1-Dichloropropene	7.98	75	12687	4.783	ug/l #	50
37) Ethyl Acetate	7.33	43	239	Below Cal	#	68
38) Carbon Tetrachloride	7.98	117	15276	5.699	ug/l #	21
49) 1,4-Dioxane	9.44	88	77	5.323	ug/l #	1
71) Bromoform	12.63	173	1434	1.259	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	67175	73.388	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	67175	129.867	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.47	75	73	Below Cal	#	1

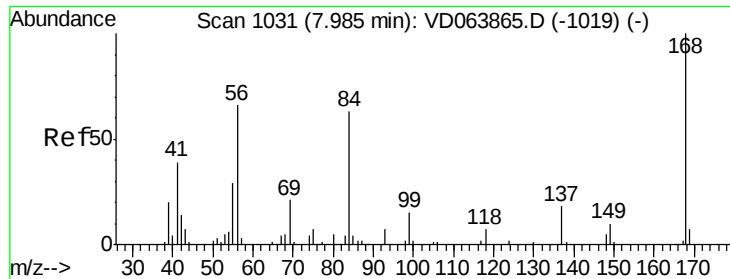
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101019\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

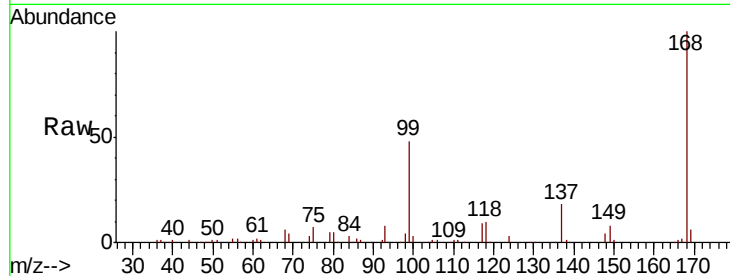
ClientSampleId :

Tot Ion:168 Resp: 163187

Ion Ratio Lower Upper

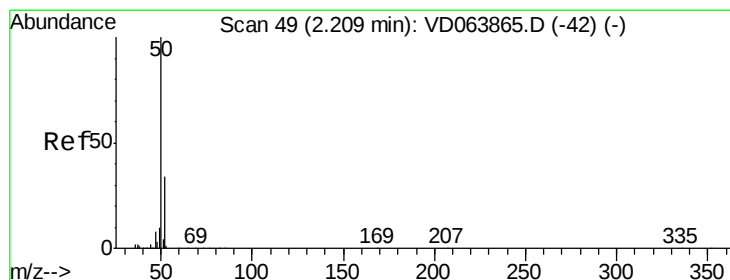
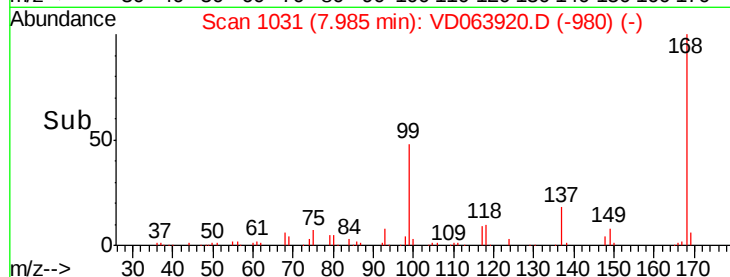
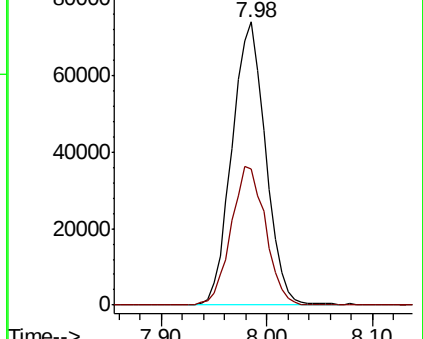
168 100

99 47.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD063920.D

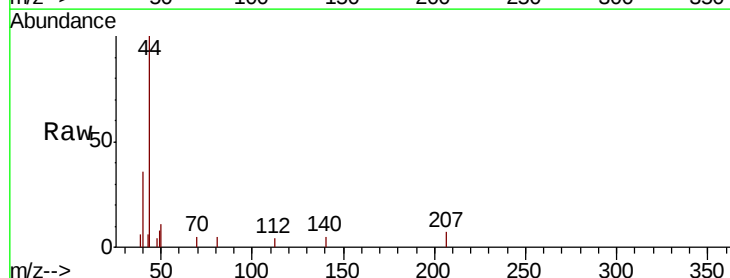
Acq: 10 Oct 2019 19:56

Tgt Ion: 50 Resp: 523

Ion Ratio Lower Upper

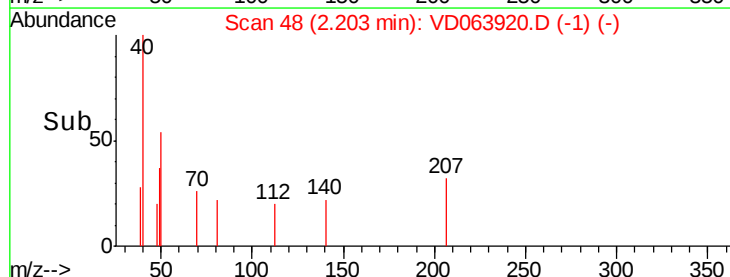
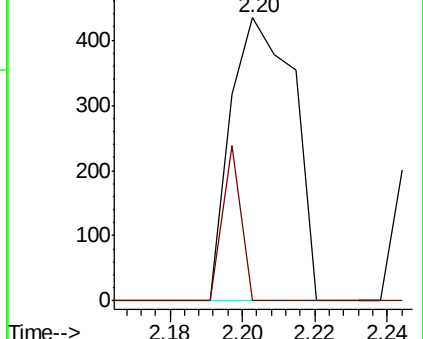
50 100

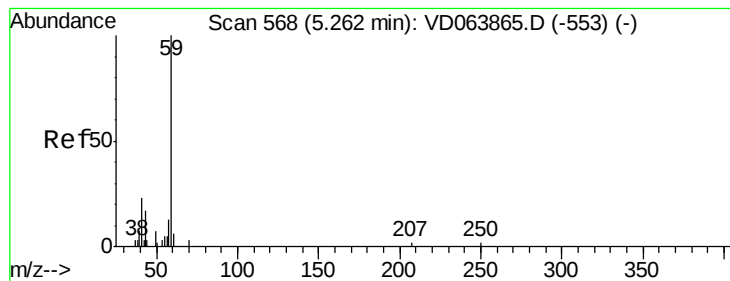
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



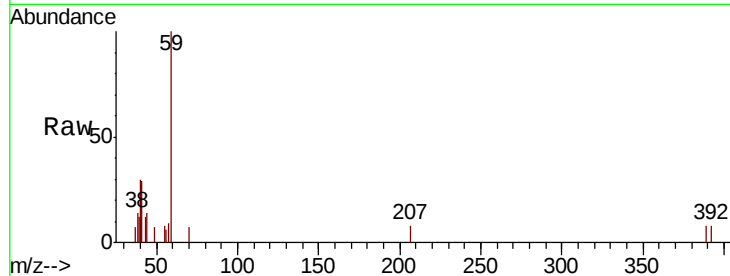


#11

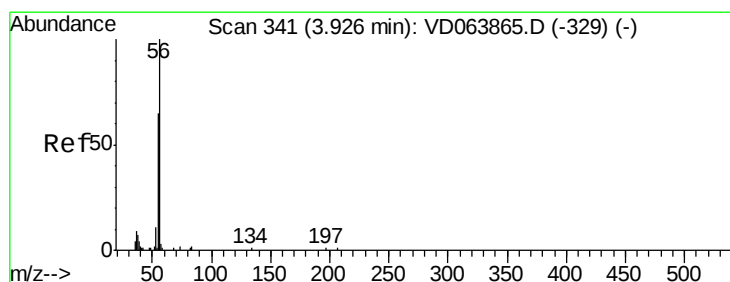
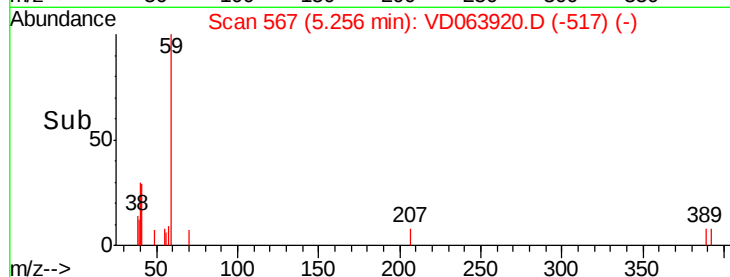
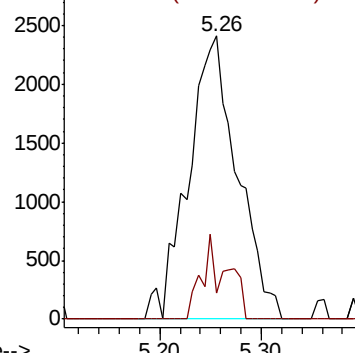
Tert butyl alcohol
 Concen: 67.655 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 59 Resp: 8113
 Ion Ratio Lower Upper
 59 100
 57 9.8 8.8 13.2



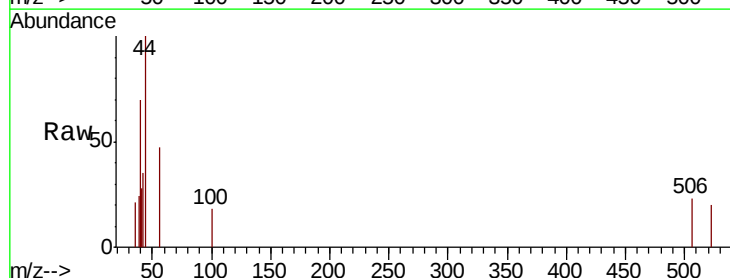
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



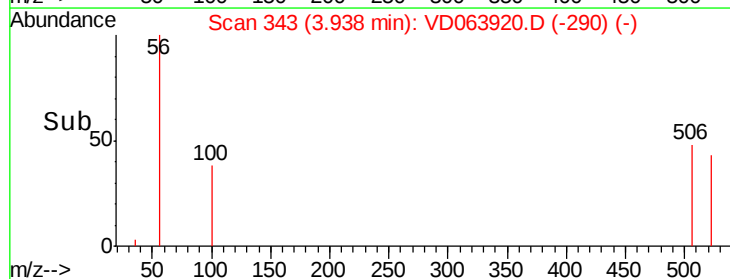
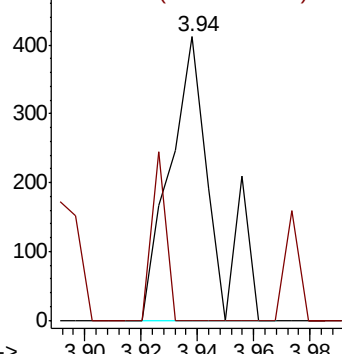
#13

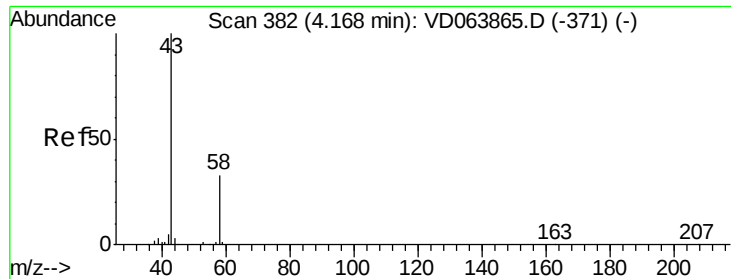
Acrolein
 Concen: 3.052 ug/l
 RT: 3.94 min Scan# 343
 Delta R.T. 0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Tgt Ion: 56 Resp: 433
 Ion Ratio Lower Upper
 56 100
 55 19.9 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
 Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 96.507 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

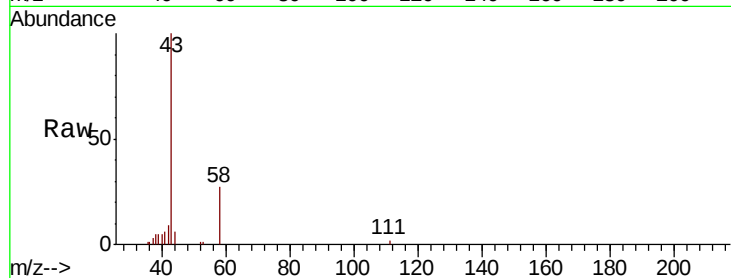
ClientSampleId :

Tot Ion: 43 Resp: 39919

Ion Ratio Lower Upper

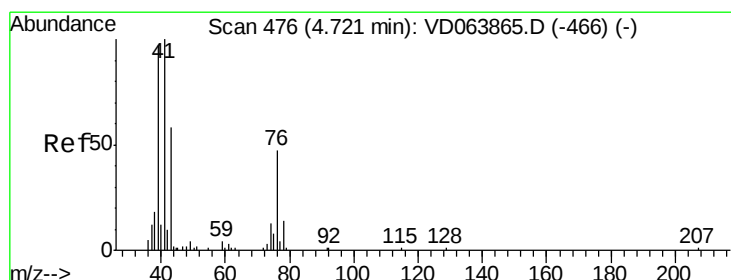
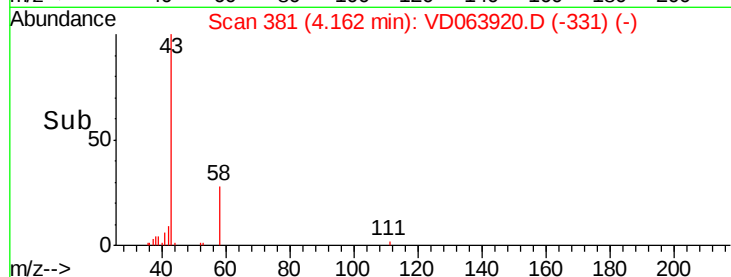
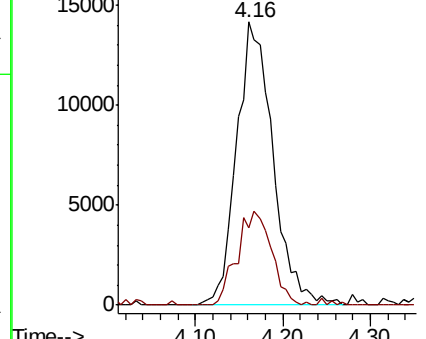
43 100

58 27.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 2.046 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD063920.D

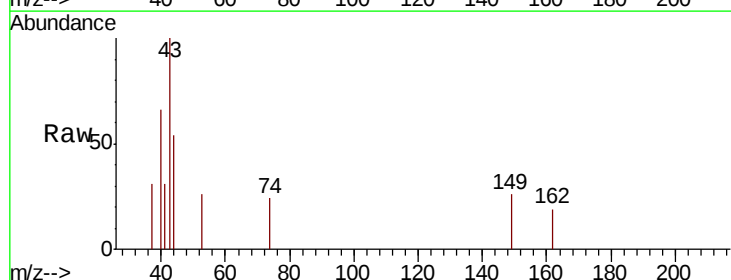
Acq: 10 Oct 2019 19:56

Tgt Ion: 43 Resp: 1655

Ion Ratio Lower Upper

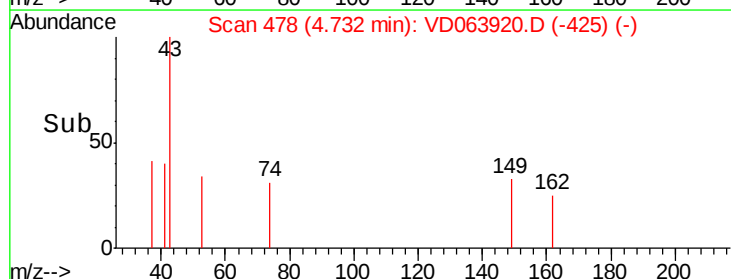
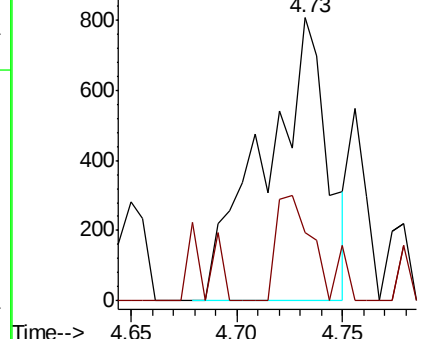
43 100

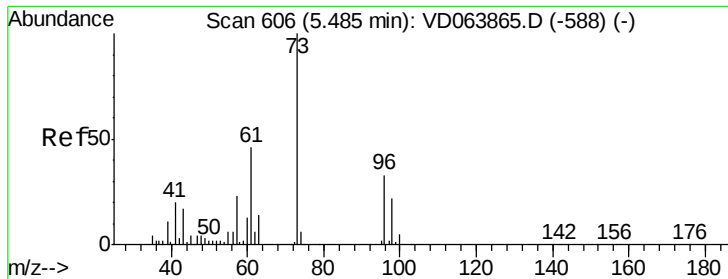
74 23.7 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



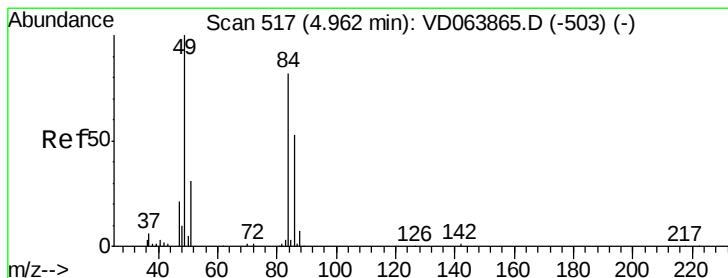
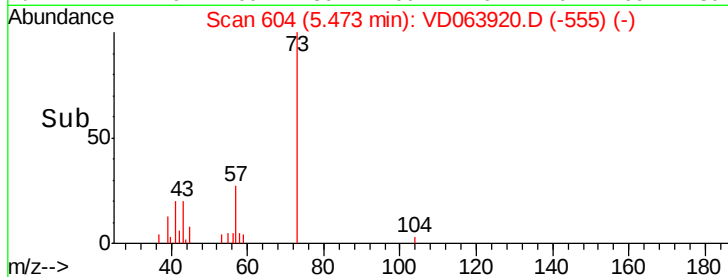
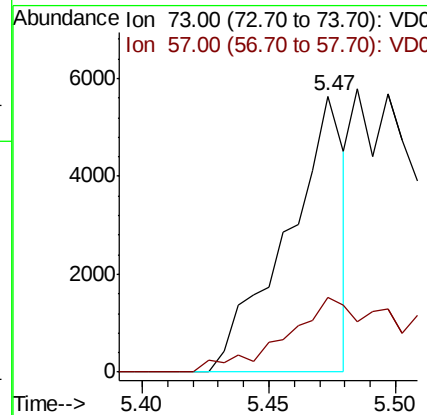
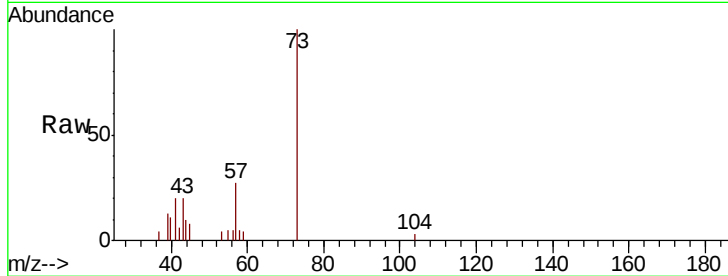


#19

Methyl tert-butyl Ether
 Concen: 2.517 ug/l
 RT: 5.47 min Scan# 604
 Delta R.T. -0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleID :

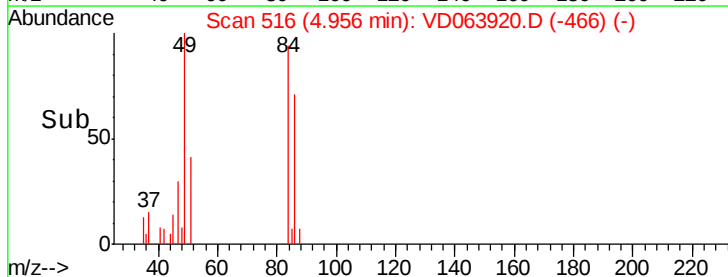
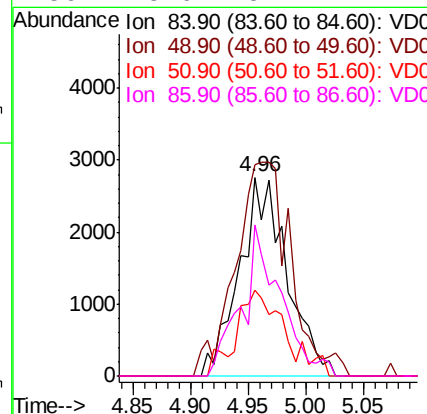
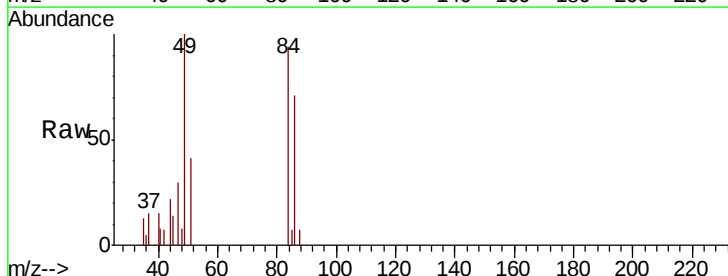
Tot Ion: 73 Resp: 8913
 Ion Ratio Lower Upper
 73 100
 57 26.9 18.1 27.1

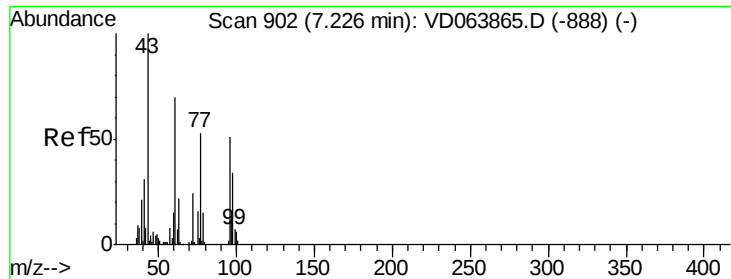


#20

Methylene Chloride
 Concen: 1.371 ug/l
 RT: 4.96 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Tgt Ion: 84 Resp: 7889
 Ion Ratio Lower Upper
 84 100
 49 106.2 97.3 145.9
 51 43.1 30.1 45.1
 86 75.9 51.4 77.2





#25

2-Butanone

Concen: 15.557 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

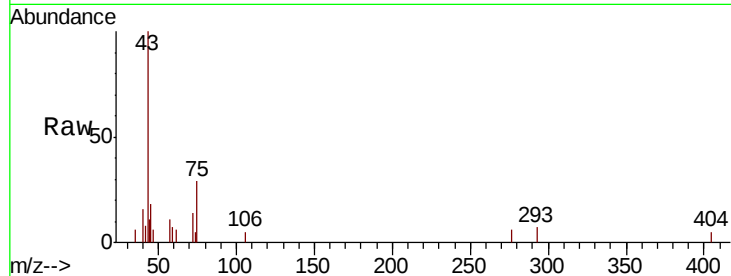
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 7626

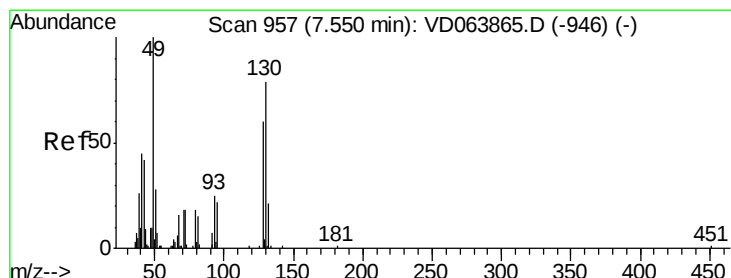
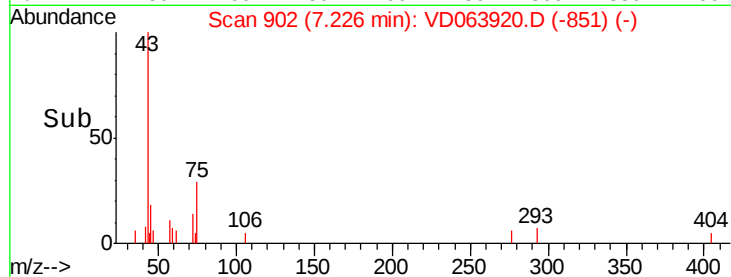
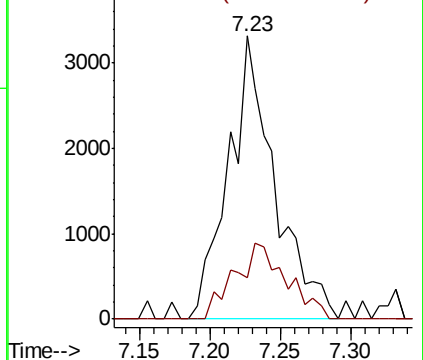
Ion Ratio Lower Upper

43 100

72 14.5 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 2.001 ug/l

RT: 7.80 min Scan# 999

Delta R.T. 0.25 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

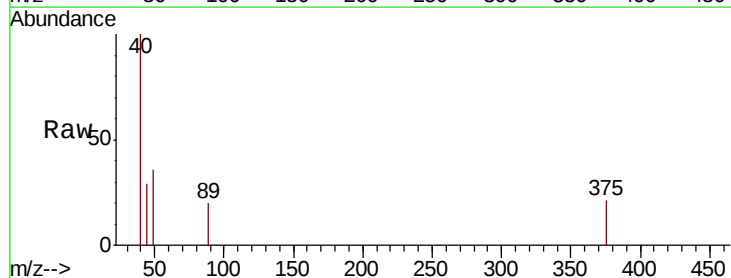
Tgt Ion: 49 Resp: 155

Ion Ratio Lower Upper

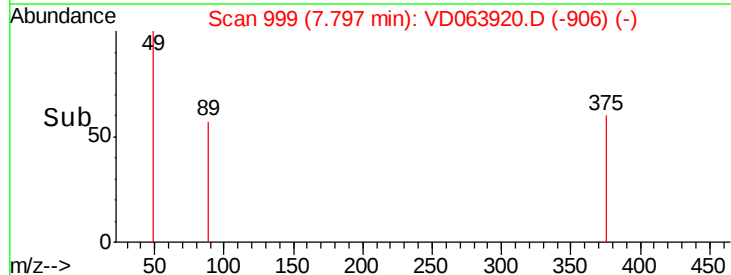
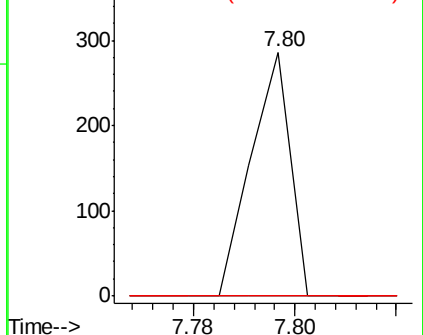
49 100

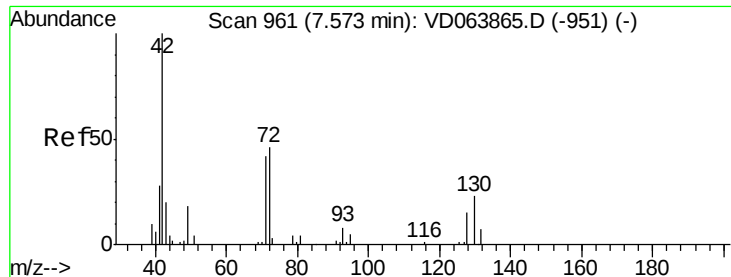
129 0.0 0.0 5.6

130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

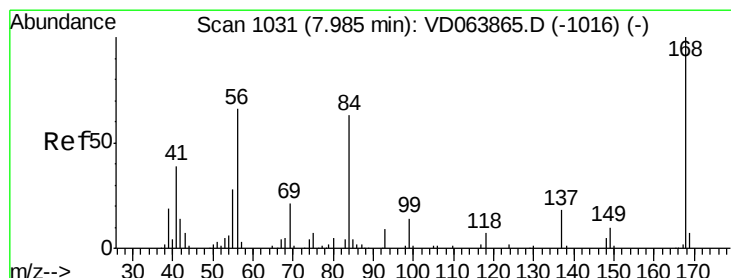
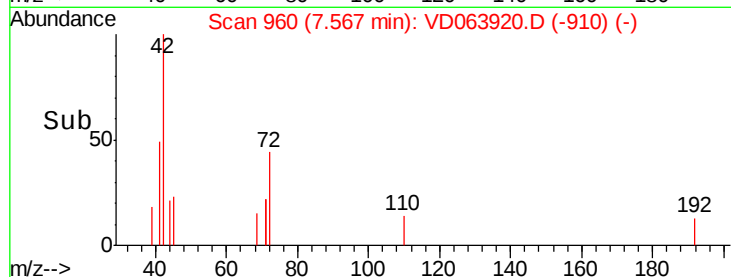
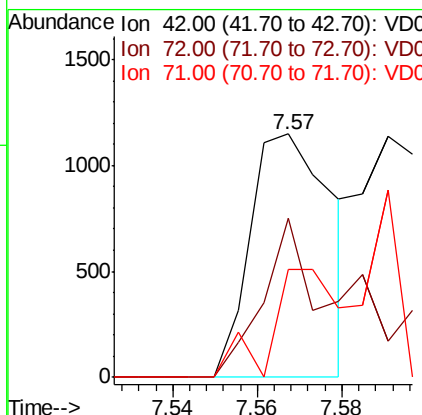
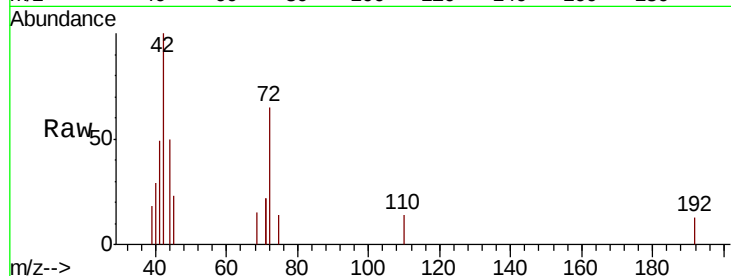




#29
Tetrahydrofuran
Concen: 5.389 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD063920.D
Acq: 10 Oct 2019 19:56

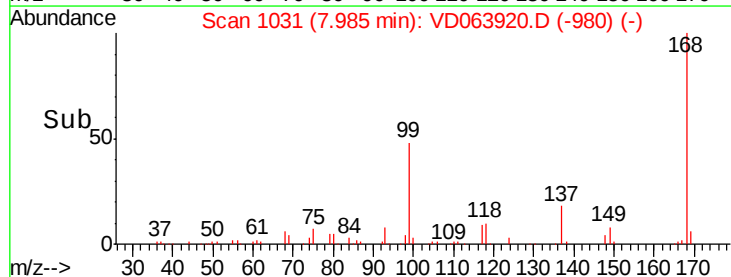
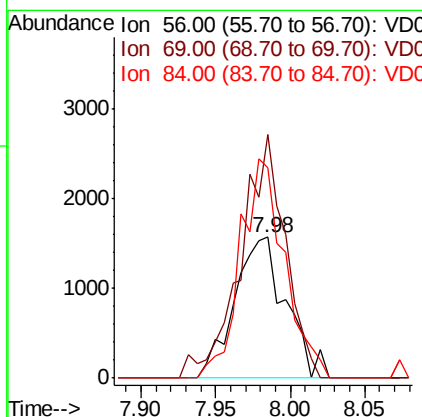
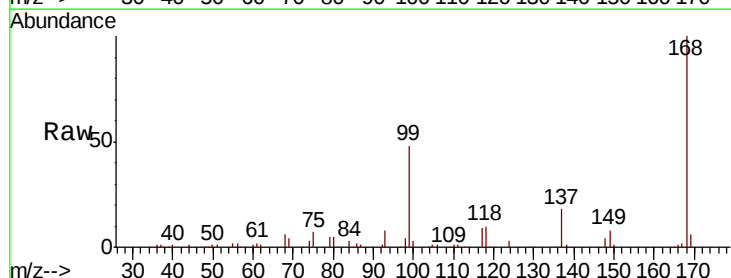
Instrument :
MSVOA_D
ClientSampleId :

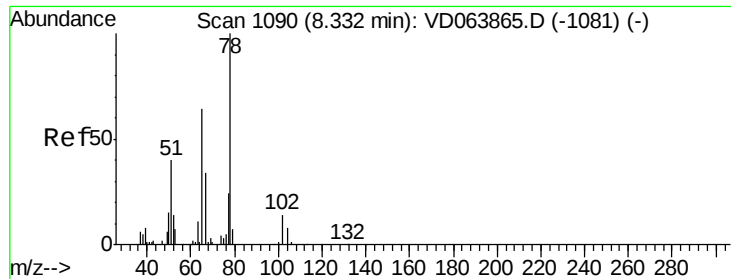
Tot Ion: 42 Resp: 1542
Ion Ratio Lower Upper
42 100
72 66.5 37.6 56.4#
71 35.8 35.0 52.6



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD063920.D
Acq: 10 Oct 2019 19:56

Tgt Ion: 56 Resp: 3768
Ion Ratio Lower Upper
56 100
69 172.9 25.0 37.4#
84 149.7 76.3 114.5#





#33

1,2-Dichloroethane-d4

Concen: 58.829 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

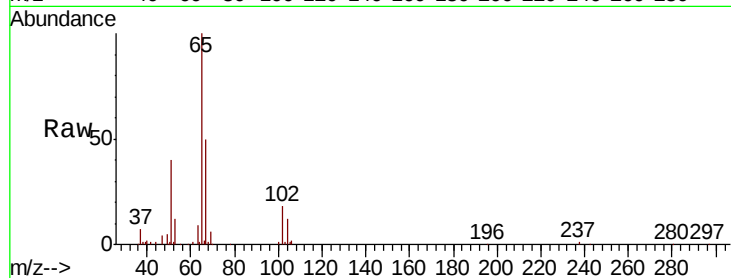
ClientSampleId :

Tot Ion: 65 Resp: 93465

Ion Ratio Lower Upper

65 100

67 53.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V

8.33

40000

30000

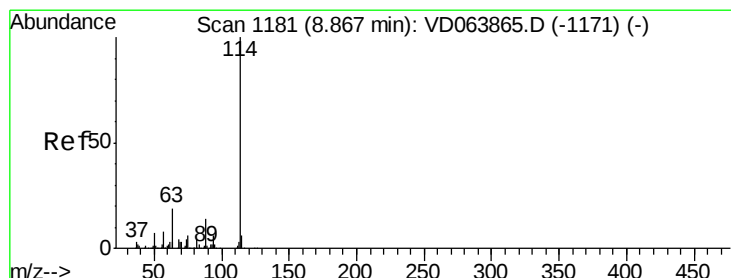
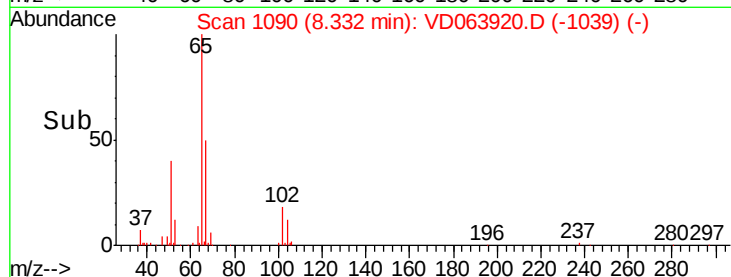
20000

10000

0

8.20 8.30 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

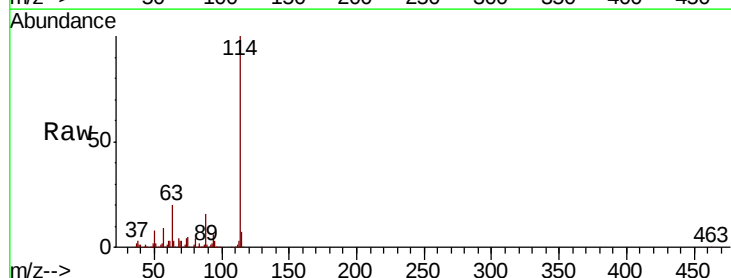
Tgt Ion: 114 Resp: 290128

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.4

88 15.6 0.0 27.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

8.87

150000

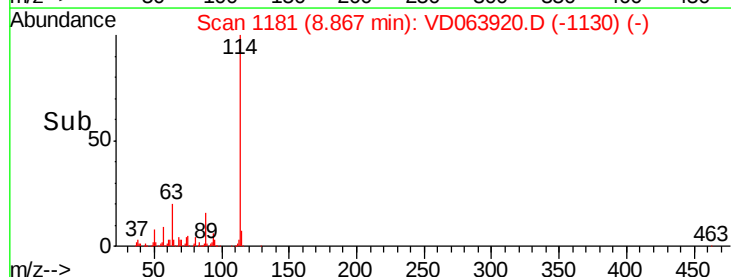
100000

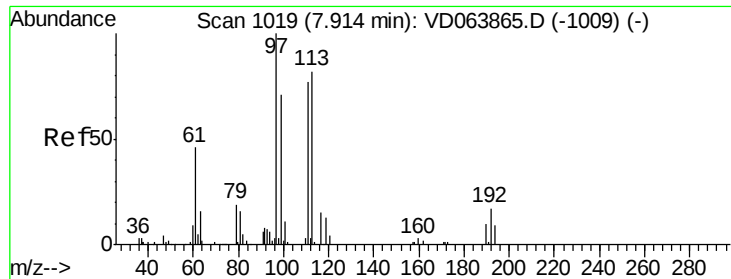
50000

0

8.80 8.90 9.00

Time-->

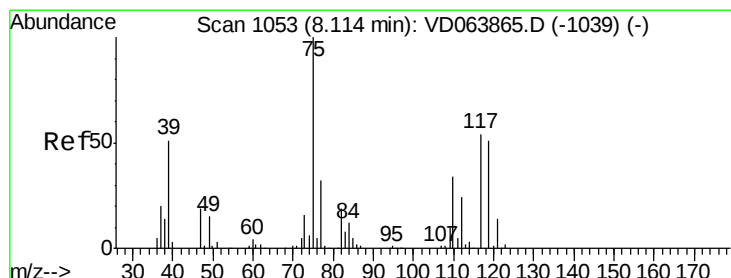
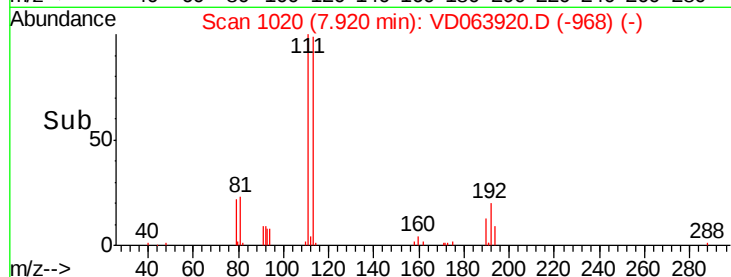
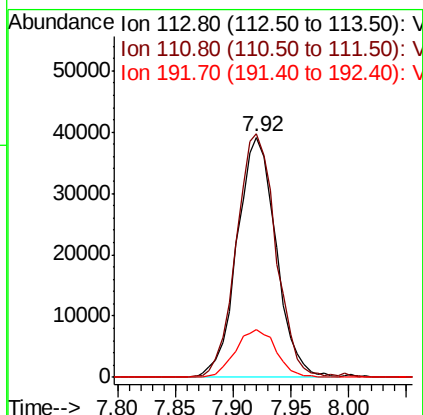
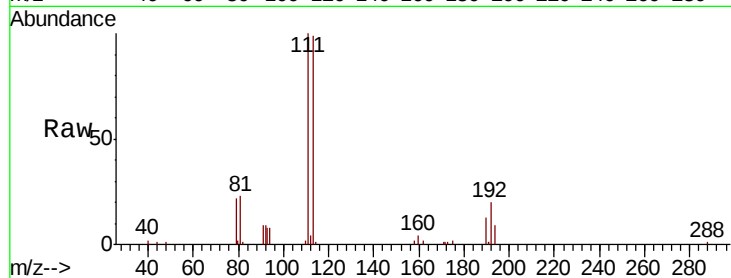




#35
 Dibromofluoromethane
 Concen: 51.804 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

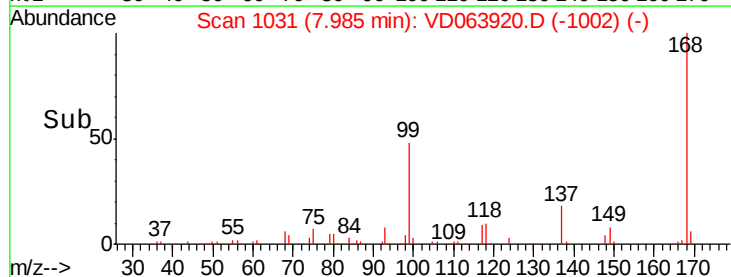
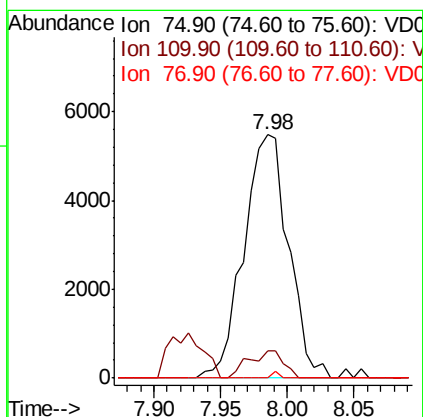
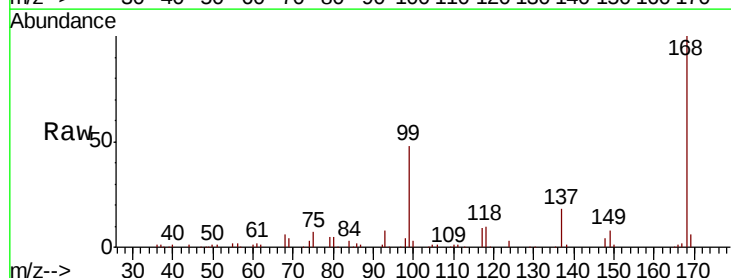
Instrument :
 MSVOA_D
 ClientSampled :

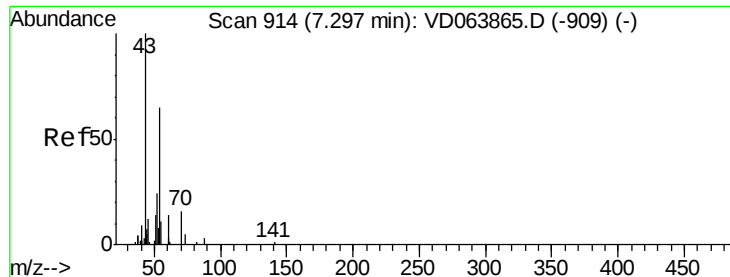
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	20.8	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.783 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.4	52.3#
77	0.4	25.4	38.0#





#37

Ethyl Acetate

Concen: Below Cal

RT: 7.33 min Scan# 920

Delta R.T. 0.04 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

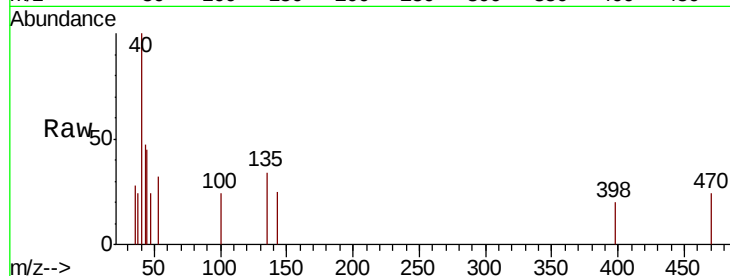
Tot Ion: 43 Resp: 239

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

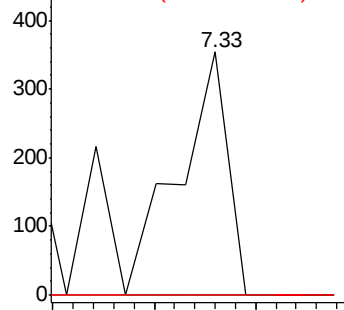
70 0.0 8.2 12.4#



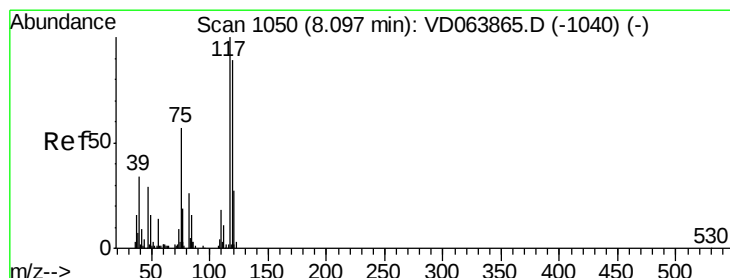
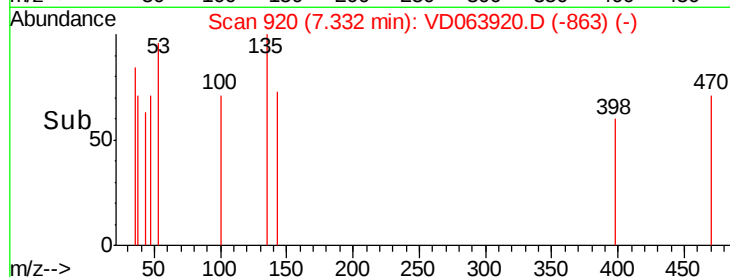
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



Time--> 7.30 7.32 7.34



#38

Carbon Tetrachloride

Concen: 5.699 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

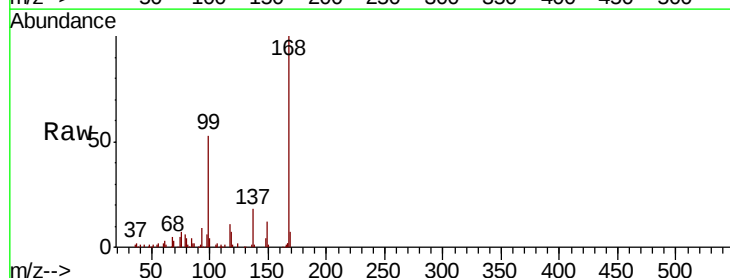
Tgt Ion: 117 Resp: 15276

Ion Ratio Lower Upper

117 100

119 6.6 70.8 106.2#

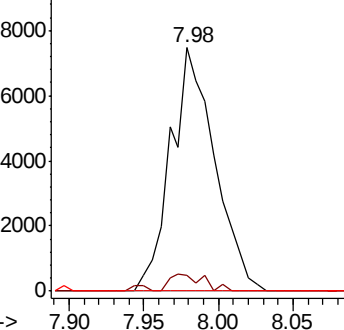
121 0.0 21.4 32.0#



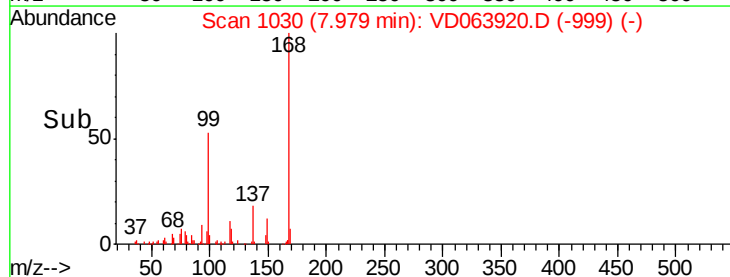
Abundance Ion 116.80 (116.50 to 117.50): V

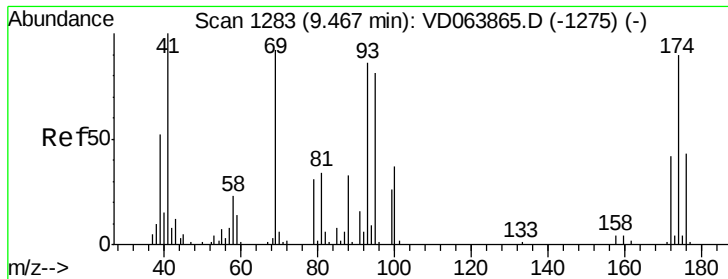
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time--> 7.90 7.95 8.00 8.05

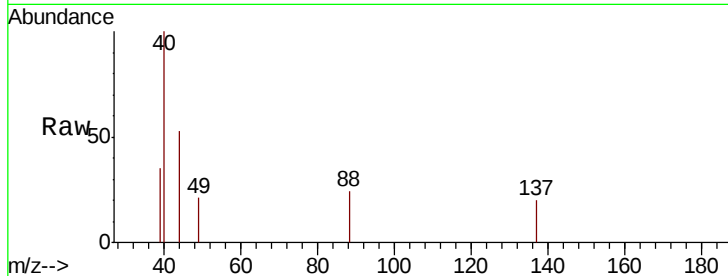




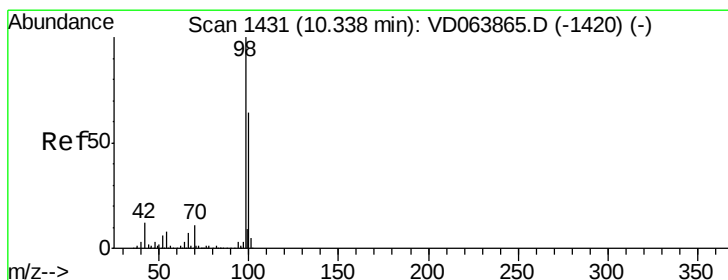
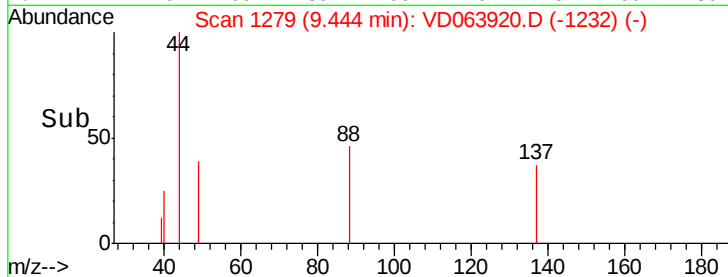
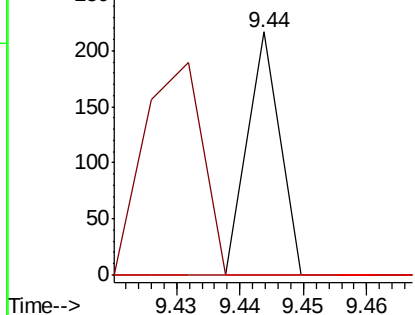
#49
 1,4-Dioxane
 Concen: 5.323 ug/l
 RT: 9.44 min Scan# 1279
 Delta R.T. -0.02 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 88 Resp: 77
 Ion Ratio Lower Upper
 88 100
 43 158.4 27.6 41.4#
 58 0.0 54.1 81.1#

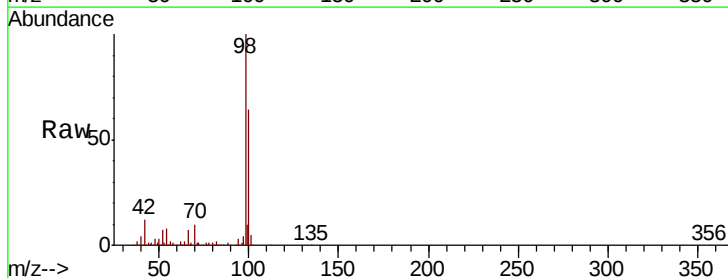


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC

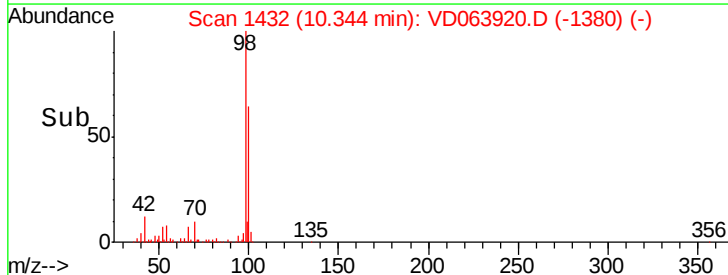
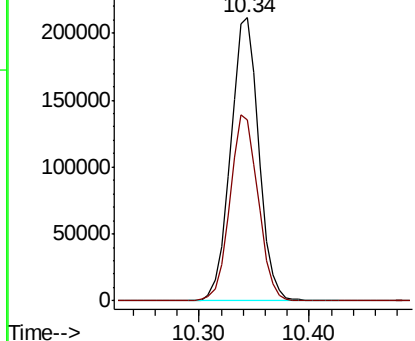


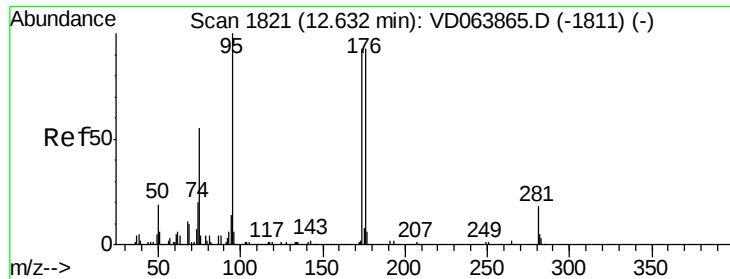
#50
 Toluene-d8
 Concen: 52.703 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Tgt Ion: 98 Resp: 379278
 Ion Ratio Lower Upper
 98 100
 100 65.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
 Ion 100.00 (99.70 to 100.70): VDC

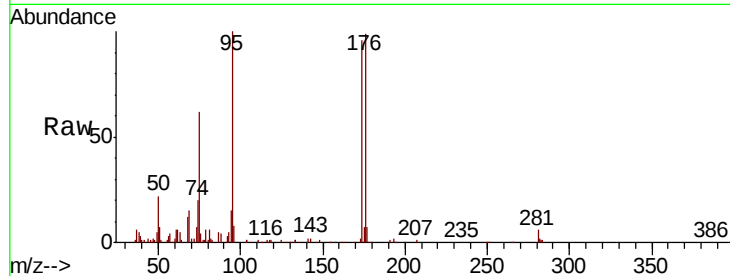




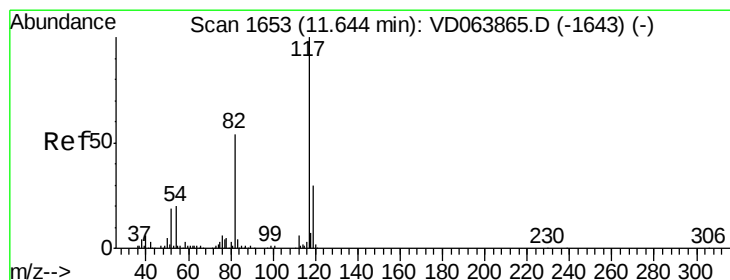
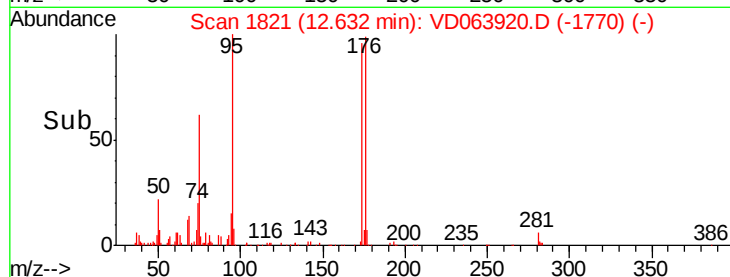
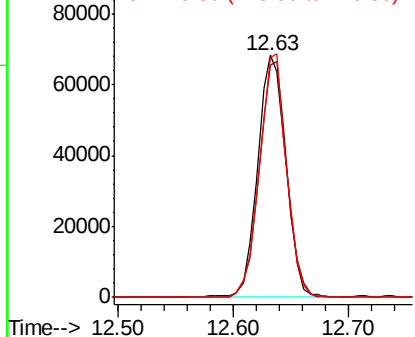
#62
4-Bromofluorobenzene
Concen: 46.524 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD063920.D
Acq: 10 Oct 2019 19:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 116347
Ion Ratio Lower Upper
95 100
174 95.7 0.0 186.4
176 95.7 0.0 184.2

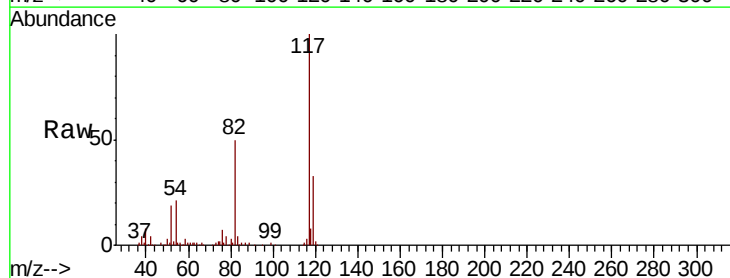


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

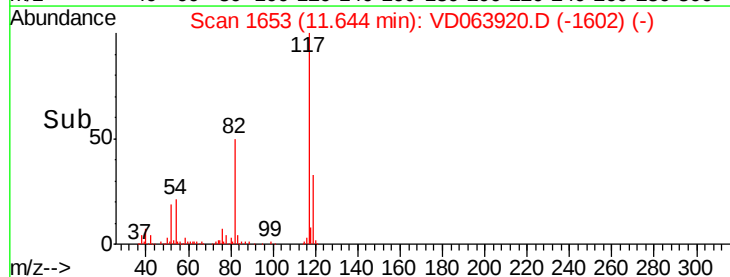
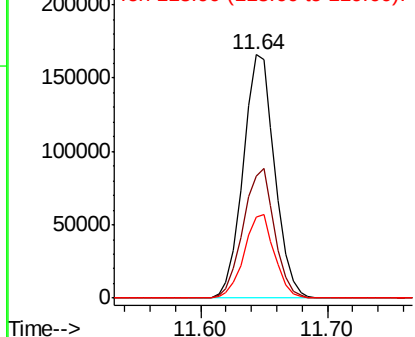


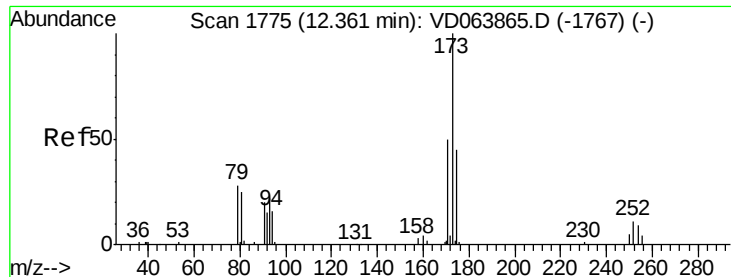
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063920.D
Acq: 10 Oct 2019 19:56

Tgt Ion: 117 Resp: 286879
Ion Ratio Lower Upper
117 100
82 50.3 42.8 64.2
119 33.2 24.4 36.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.259 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. 0.26 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

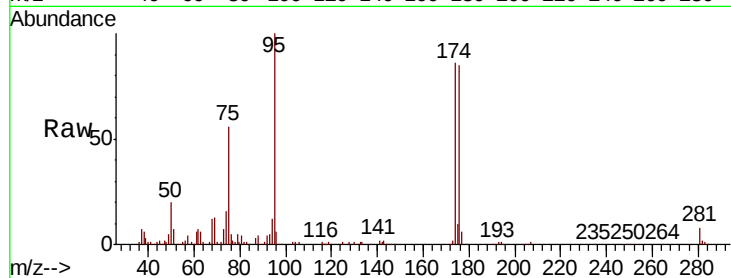
Tot Ion:173 Resp: 1434

Ion Ratio Lower Upper

173 100

175 363.4 24.6 74.0#

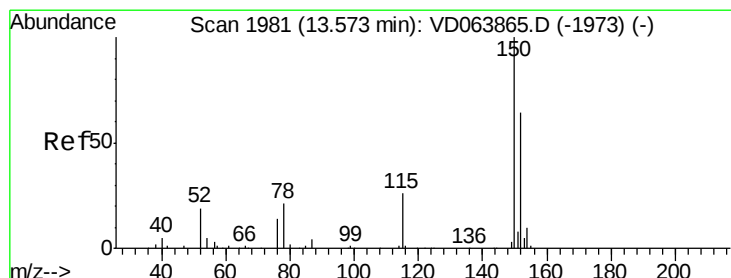
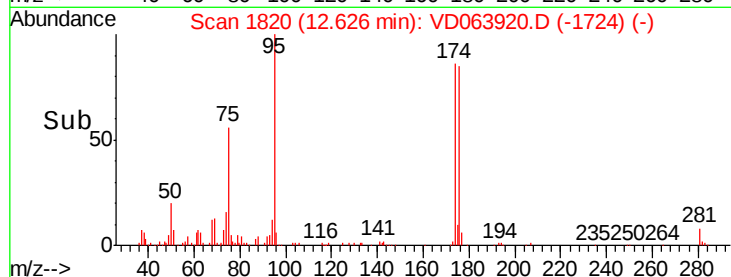
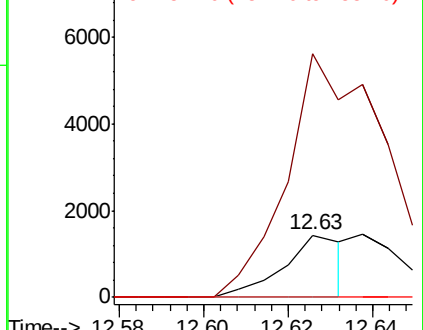
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.01 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

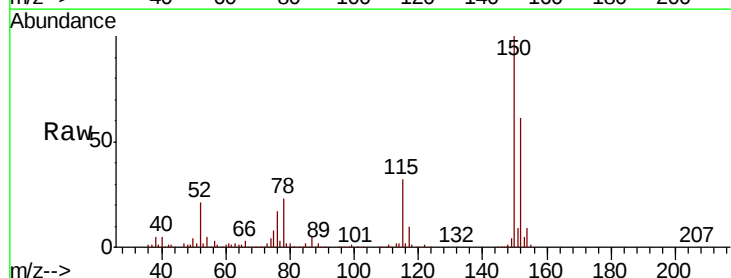
Tgt Ion:152 Resp: 136665

Ion Ratio Lower Upper

152 100

115 54.7 25.9 77.7

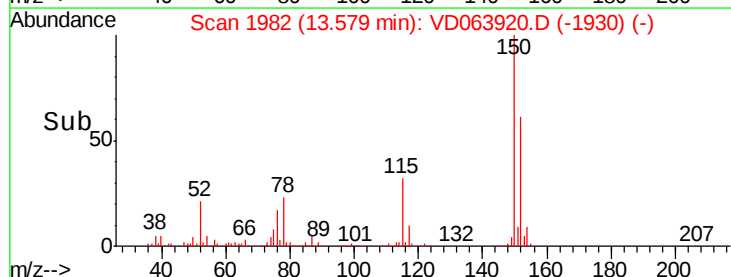
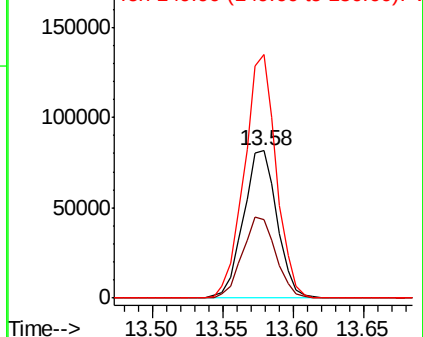
150 156.4 0.0 344.2

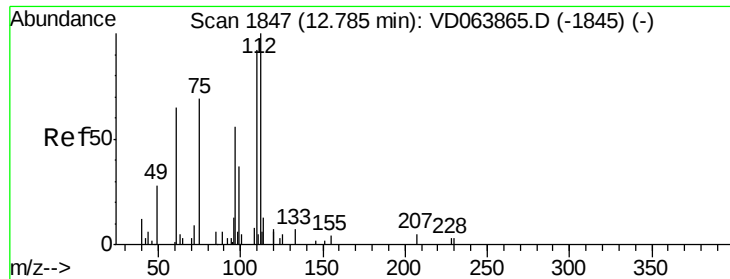


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

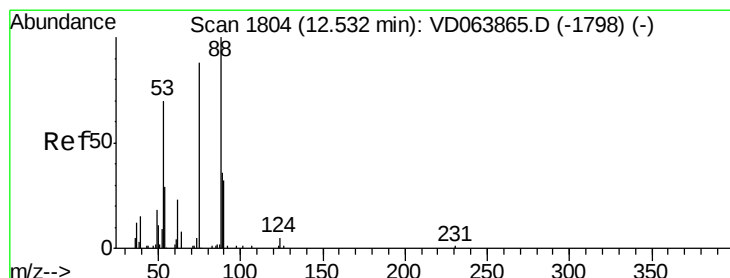
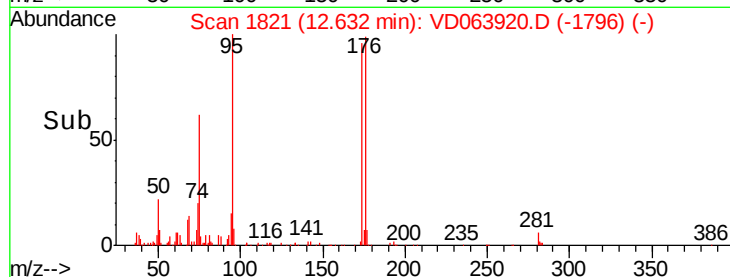
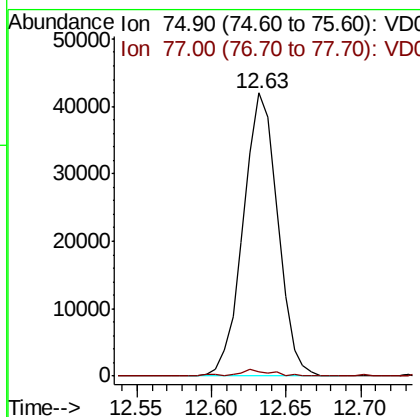
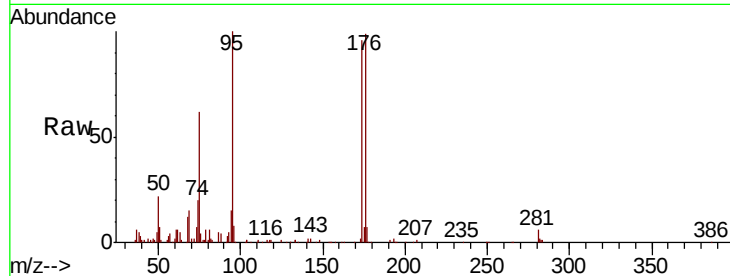




#76
 1,2,3-Trichloropropane
 Concen: 73.388 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

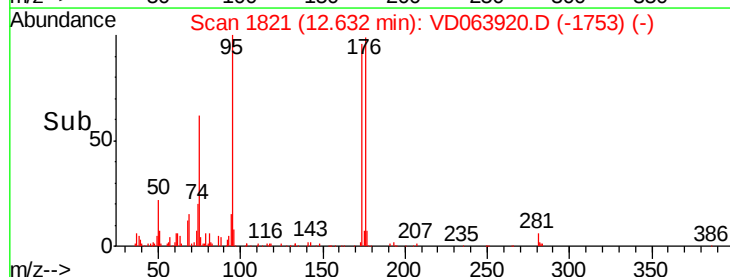
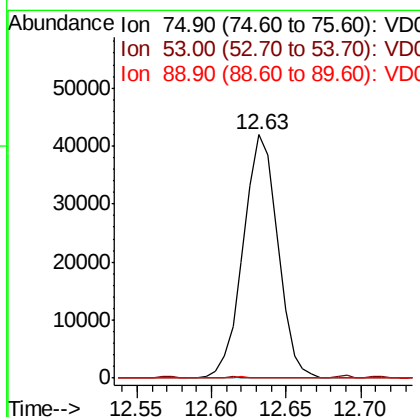
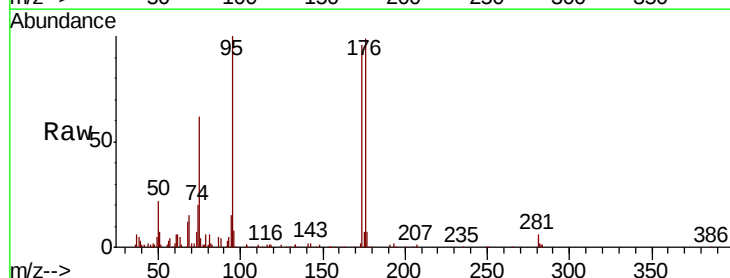
Instrument :
 MSVOA_D
 ClientSampleId :

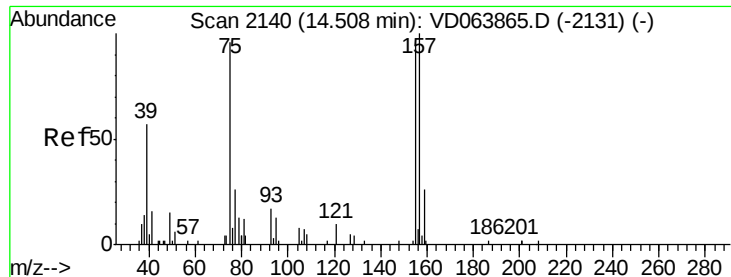
Tot Ion: 75 Resp: 67175
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 129.867 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD063920.D
 Acq: 10 Oct 2019 19:56

Tgt Ion: 75 Resp: 67175
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.0 112.6#
 89 0.0 38.2 57.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.47 min Scan# 2133

Delta R.T. -0.04 min

Lab File: VD063920.D

Acq: 10 Oct 2019 19:56

Instrument :

MSVOA_D

ClientSampleId :

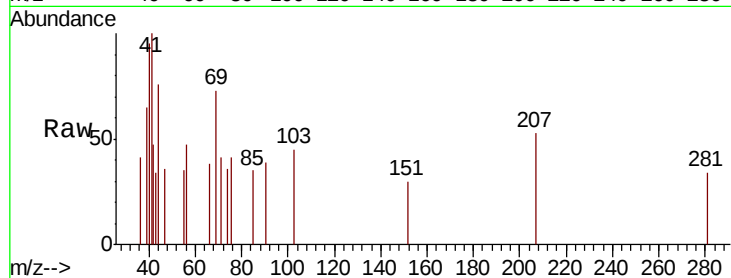
Tot Ion: 75 Resp: 73

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

