

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021720\
 Data File : VD065199.D
 Acq On : 17 Feb 2020 16:24
 Operator : VA/SY
 Sample : L1545-01
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 43ST-B

Quant Time: Feb 18 03:16:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	302433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	499938	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	441516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	169719	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	177928	69.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	138.44%	
35) Dibromofluoromethane	7.92	113	165195	59.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	118.44%	
50) Toluene-d8	10.34	98	585825	52.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	105.54%	
62) 4-Bromofluorobenzene	12.64	95	162204	46.11	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.22%	

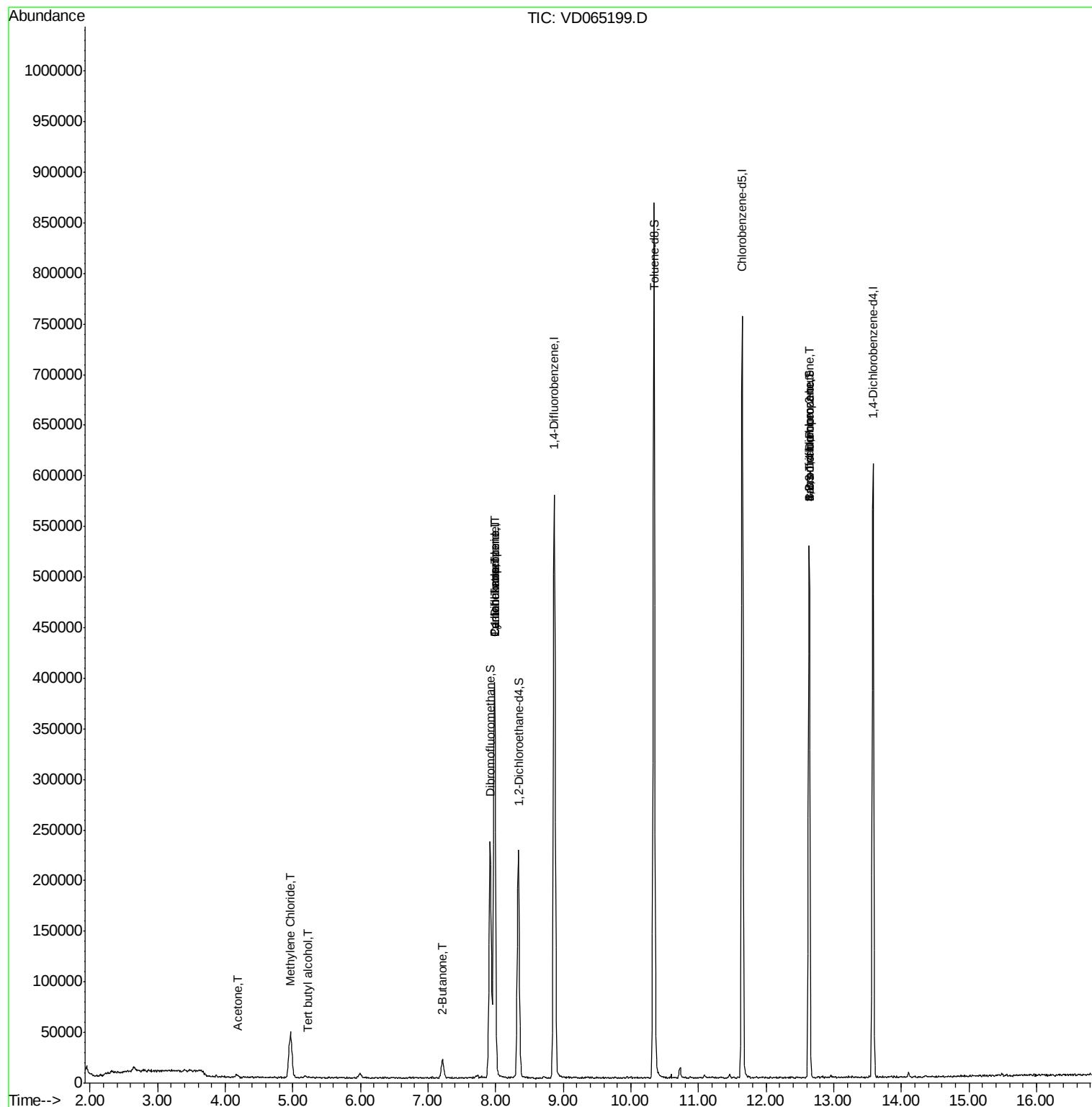
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	191	1.216	ug/l #	71
16) Acetone	4.18	43	4000	6.224	ug/l	94
20) Methylene Chloride	4.97	84	36733	9.814	ug/l	93
25) 2-Butanone	7.22	43	1117	1.457	ug/l #	50
31) Cyclohexane	7.98	56	6410	1.254	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	23037	4.956	ug/l #	50
38) Carbon Tetrachloride	7.98	117	28655	6.035	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.95	63	524	Below Cal	#	46
71) Bromoform	12.64	173	1857	1.095	ug/l #	29
76) 1,2,3-Trichloropropane	12.64	75	81495	63.423	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	81495	126.840	ug/l #	10

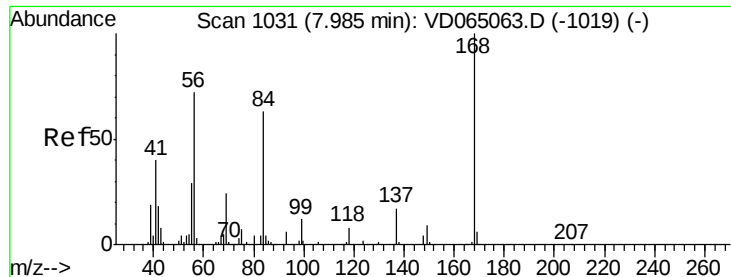
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD021720\
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Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

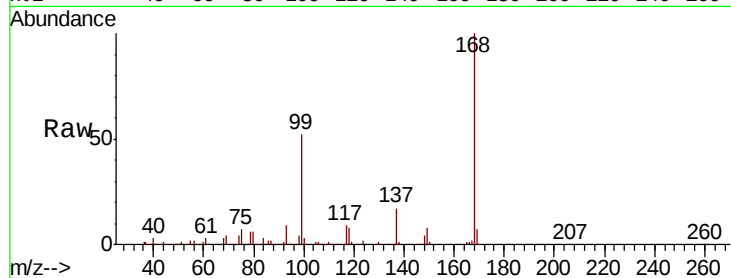
43ST-B

Tot Ion:168 Resp: 302433

Ion Ratio Lower Upper

168 100

99 52.4 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

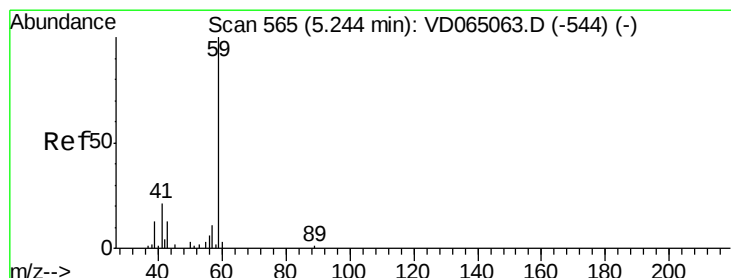
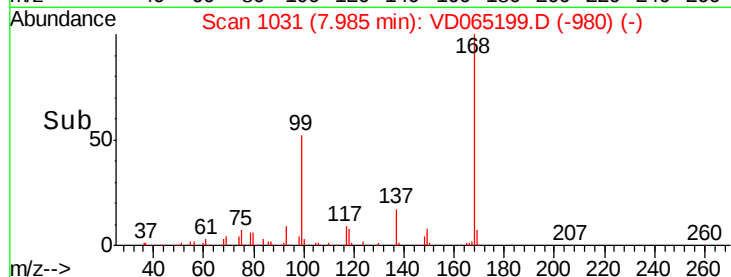
100000

50000

0

Time-->

7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.216 ug/l

RT: 5.23 min Scan# 562

Delta R.T. -0.02 min

Lab File: VD065199.D

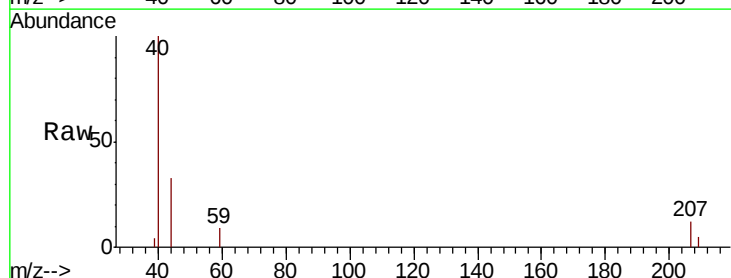
Acq: 17 Feb 2020 16:24

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.23

400

300

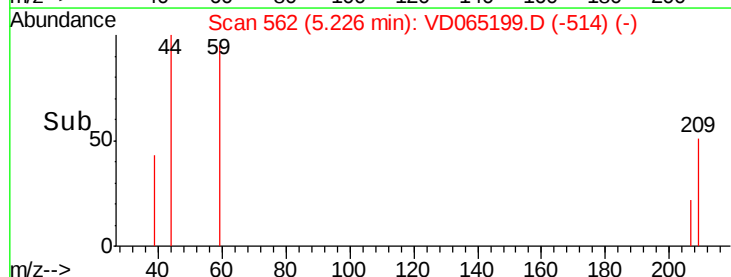
200

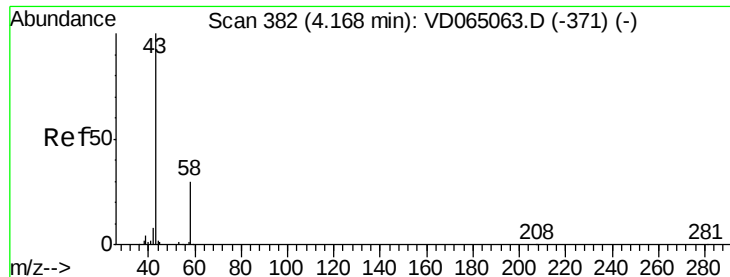
100

0

Time-->

5.22 5.23 5.24





#16

Acetone

Concen: 6.224 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.01 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

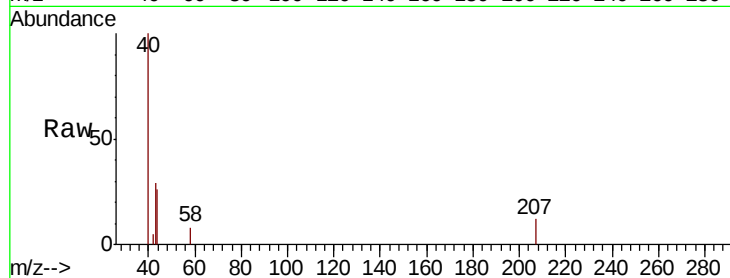
43ST-B

Tot Ion: 43 Resp: 4000

Ion Ratio Lower Upper

43 100

58 26.0 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

1500

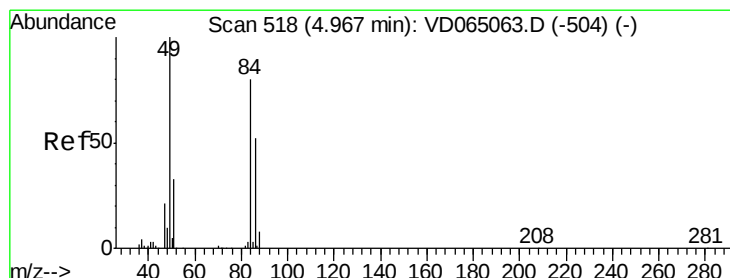
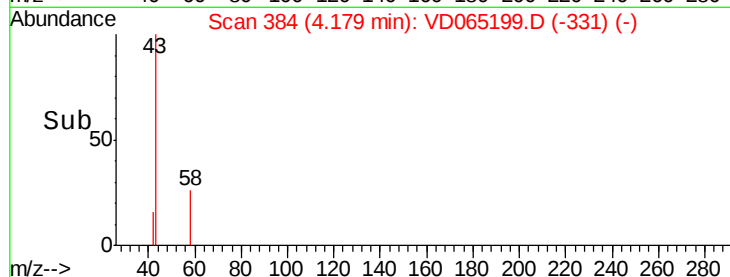
1000

500

0

4.10 4.20

Time-->



#20

Methylene Chloride

Concen: 9.814 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Tgt Ion: 84 Resp: 36733

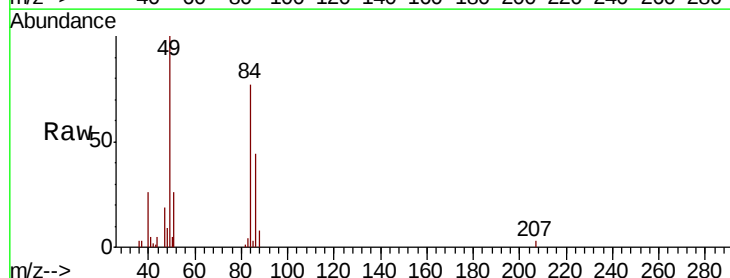
Ion Ratio Lower Upper

84 100

49 130.4 100.4 150.6

51 34.2 32.7 49.1

86 57.9 52.4 78.6



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

20000

15000

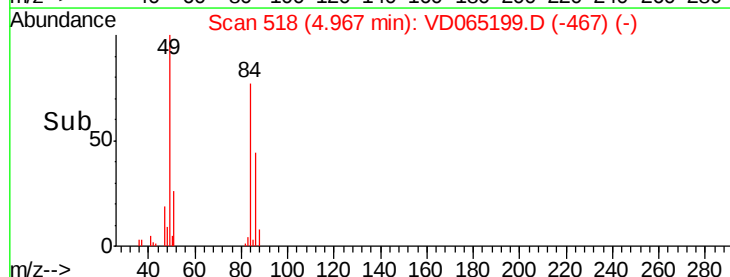
10000

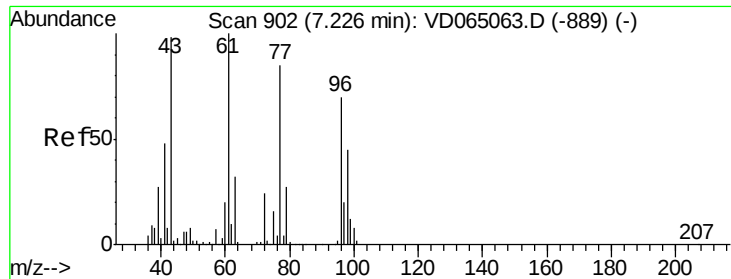
5000

0

4.90 5.00 5.10

Time-->





#25

2-Butanone

Concen: 1.457 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

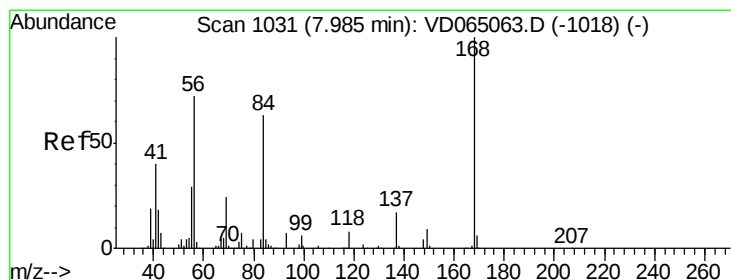
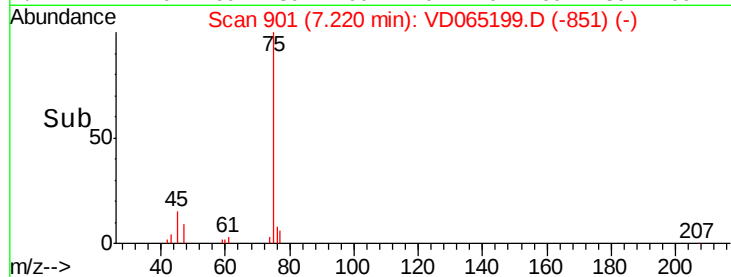
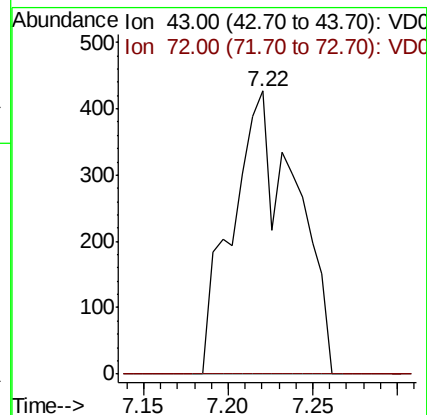
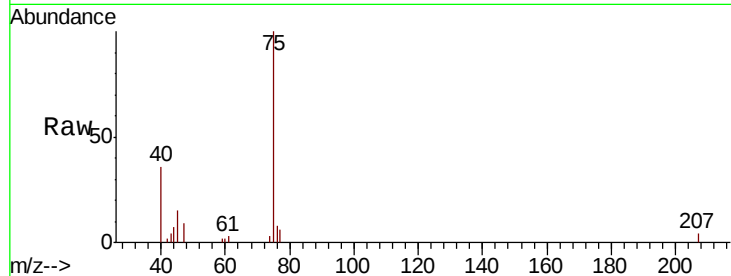
43ST-B

Tot Ion: 43 Resp: 1117

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.254 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

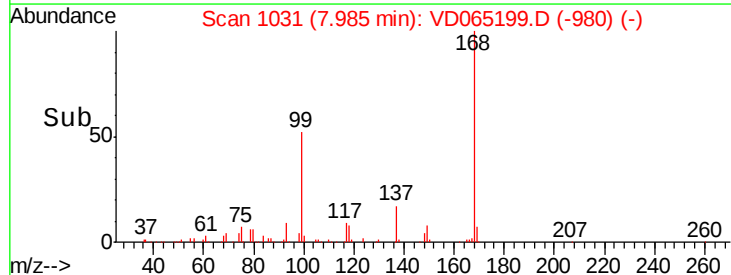
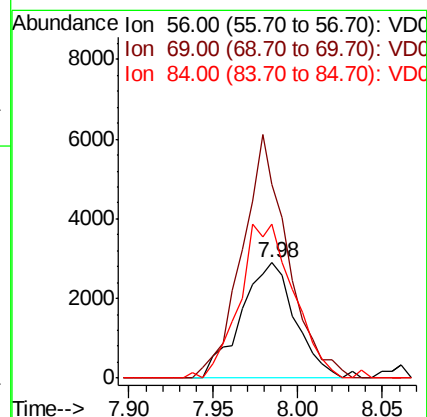
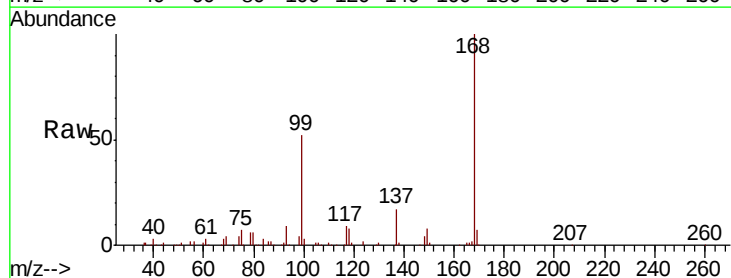
Tgt Ion: 56 Resp: 6410

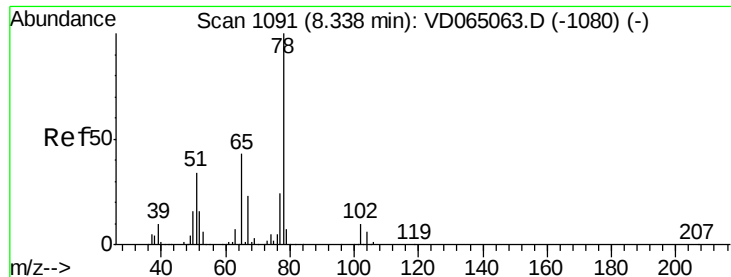
Ion Ratio Lower Upper

56 100

69 167.5 26.6 40.0#

84 133.4 70.6 106.0#





#33

1,2-Dichloroethane-d4

Concen: 69.221 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

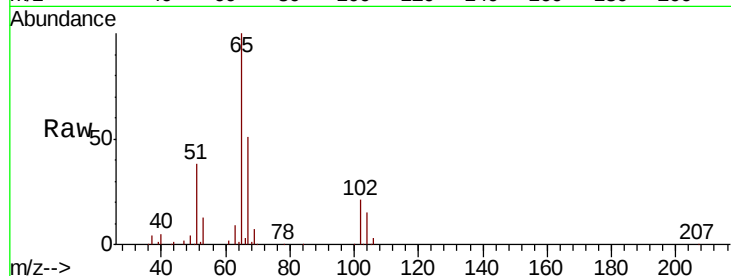
43ST-B

Tot Ion: 65 Resp: 177928

Ion Ratio Lower Upper

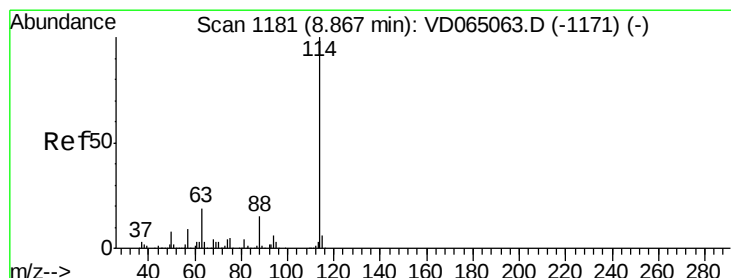
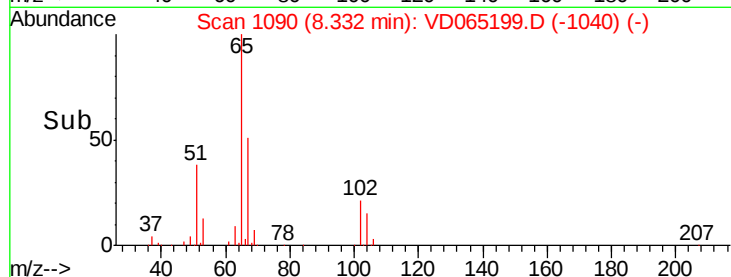
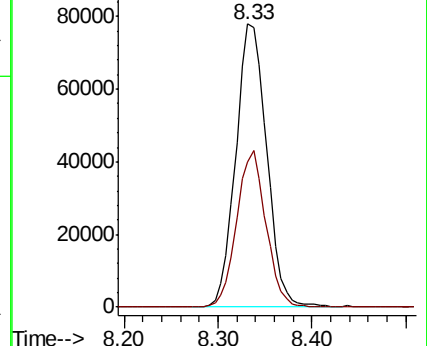
65 100

67 52.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): V

Ion 66.90 (66.60 to 67.60): V



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

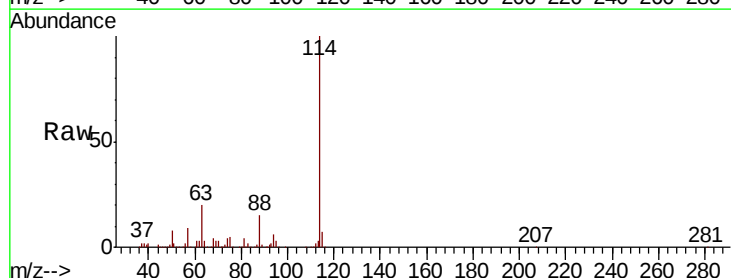
Tgt Ion: 114 Resp: 499938

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.8

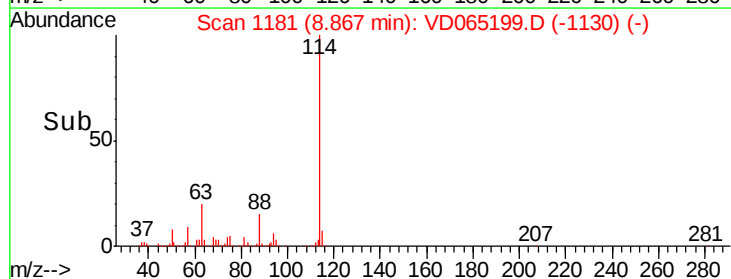
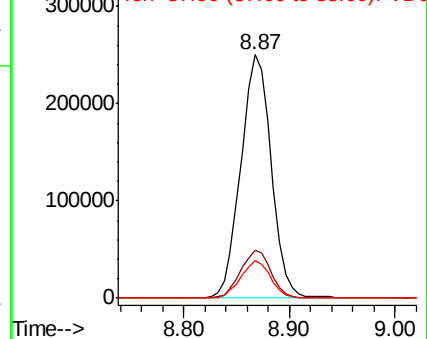
88 15.2 0.0 29.6

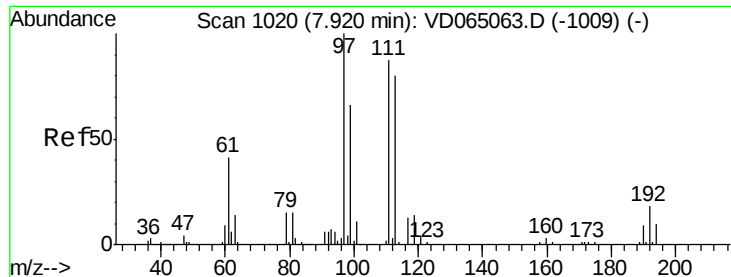


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V





#35

Dibromofluoromethane

Concen: 59.224 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

43ST-B

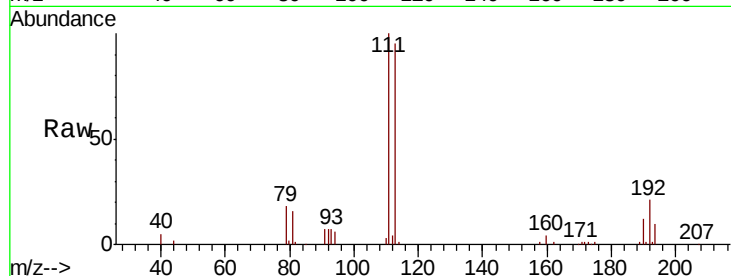
Tot Ion:113 Resp: 165195

Ion Ratio Lower Upper

113 100

111 104.8 83.1 124.7

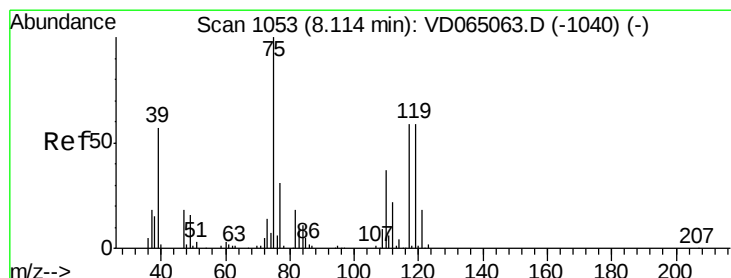
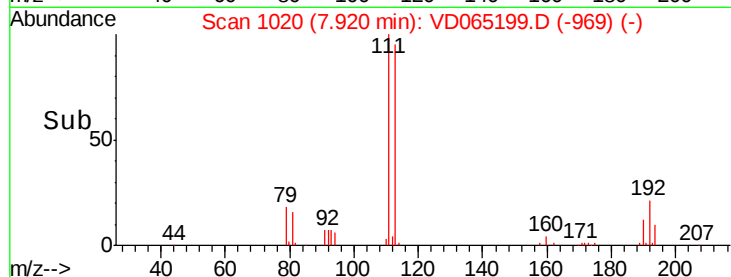
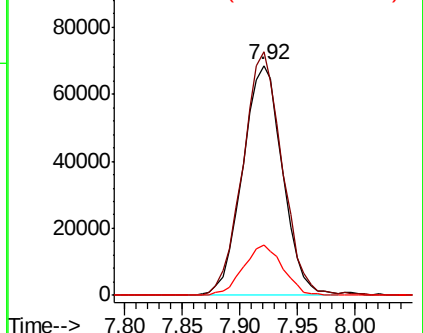
192 21.7 18.1 27.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.956 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

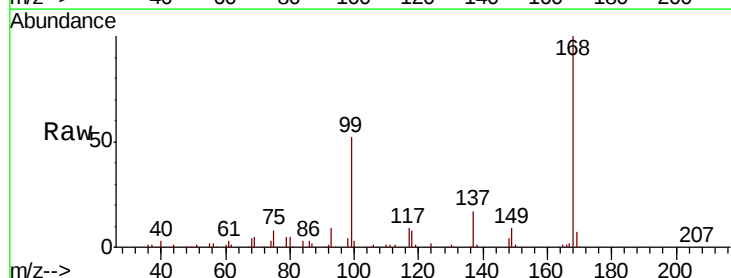
Tgt Ion: 75 Resp: 23037

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.3#

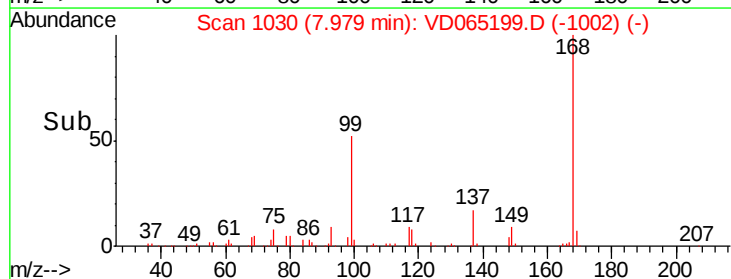
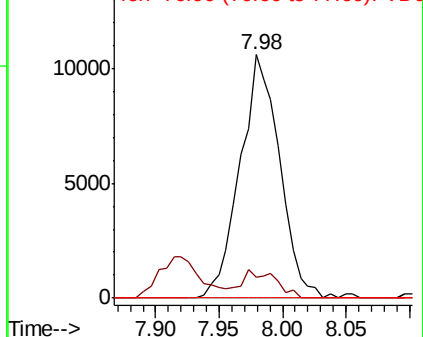
77 0.0 24.7 37.1#

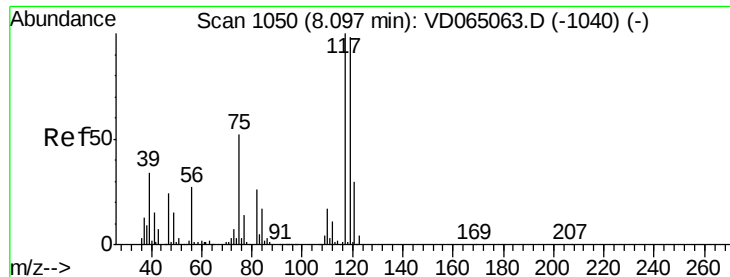


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.035 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

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43ST-B

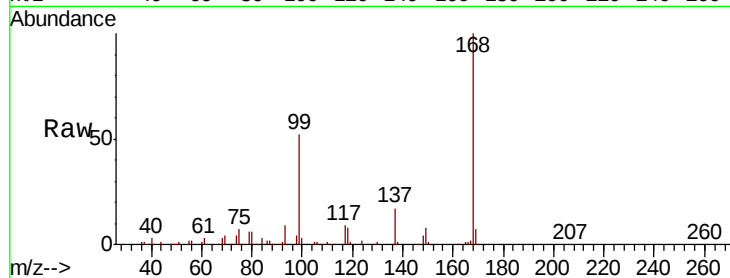
Tot Ion:117 Resp: 28655

Ion Ratio Lower Upper

117 100

119 6.9 78.5 117.7#

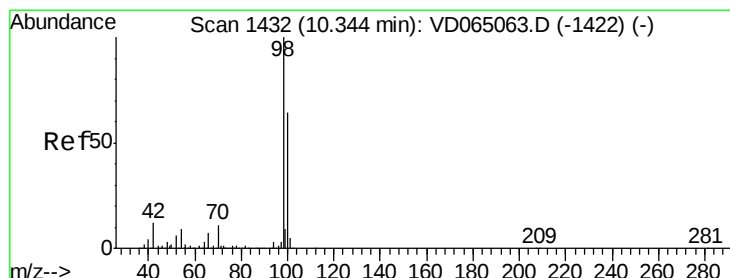
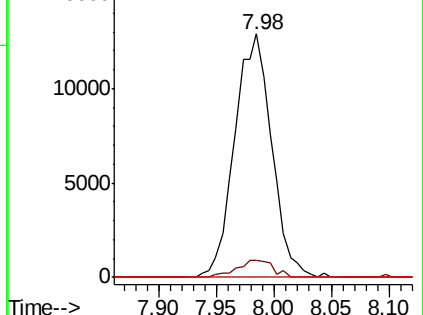
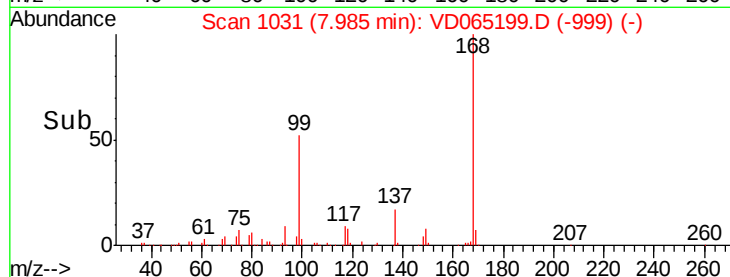
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 52.766 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065199.D

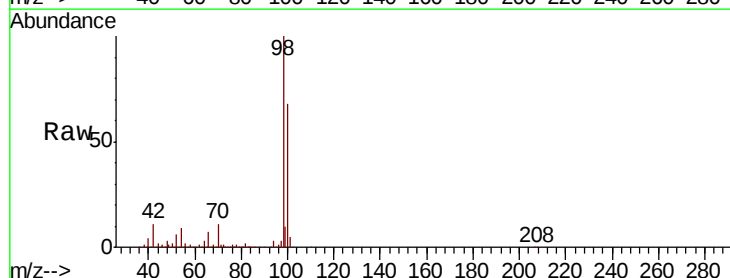
Acq: 17 Feb 2020 16:24

Tgt Ion: 98 Resp: 585825

Ion Ratio Lower Upper

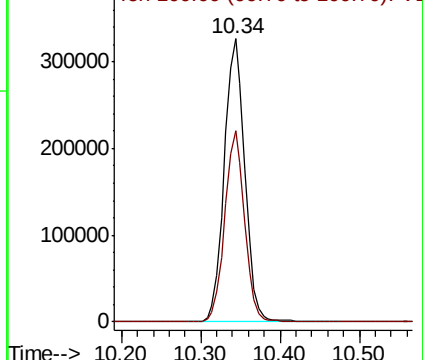
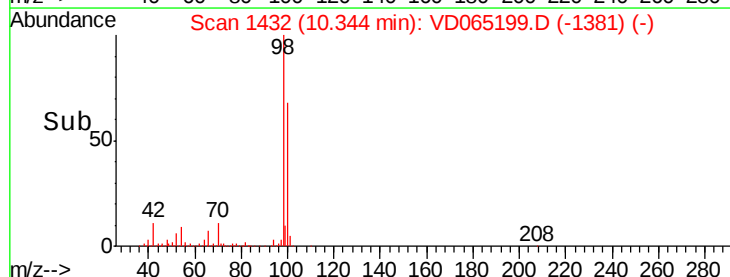
98 100

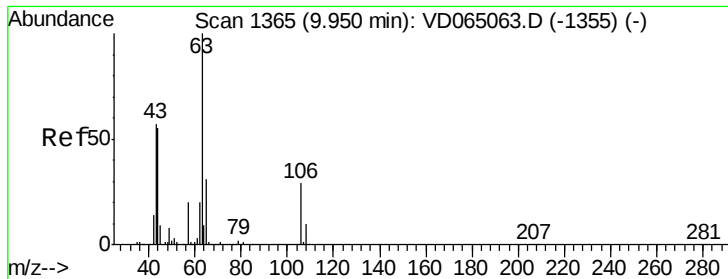
100 64.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

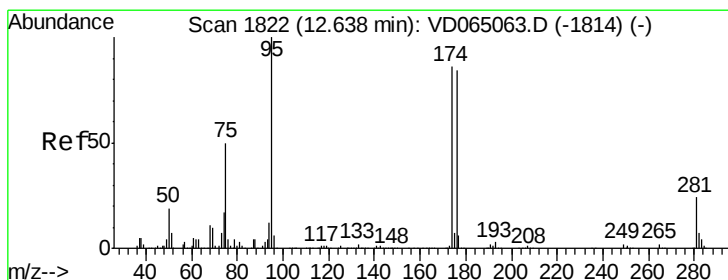
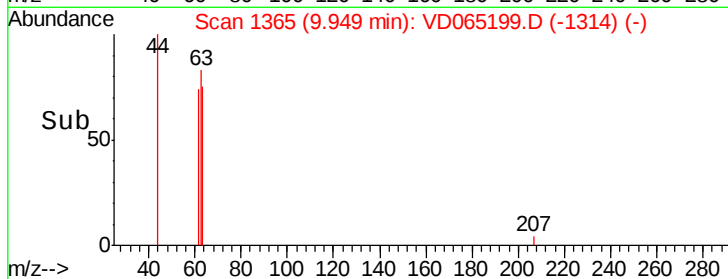
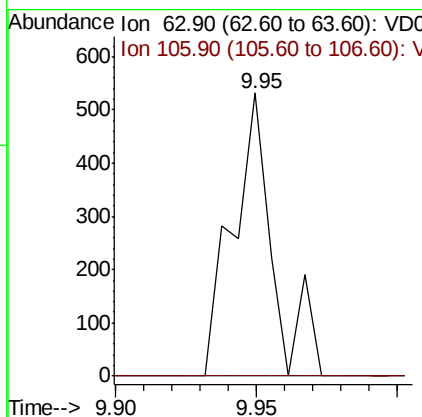
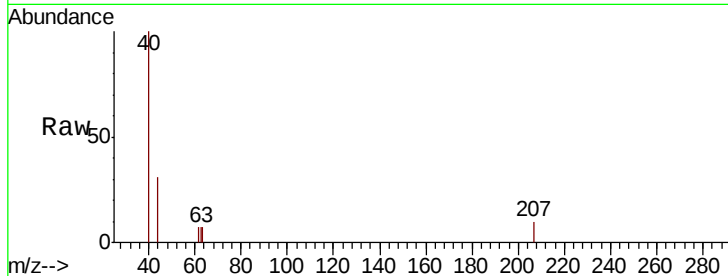




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 9.95 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VD065199.D
Acq: 17 Feb 2020 16:24

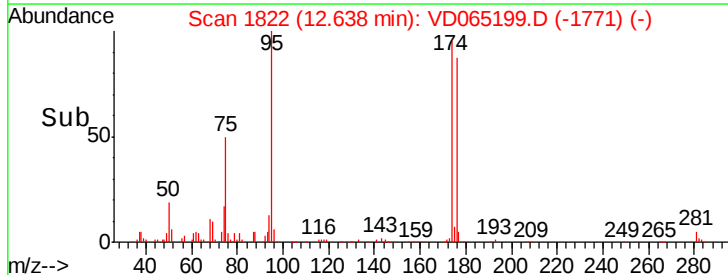
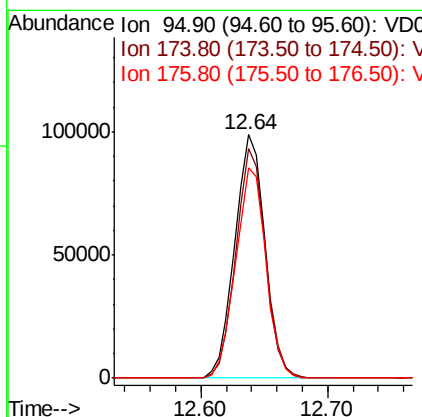
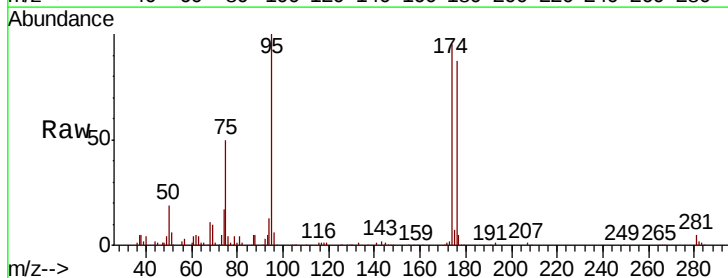
Instrument :
MSVOA_D
ClientSampleId :
43ST-B

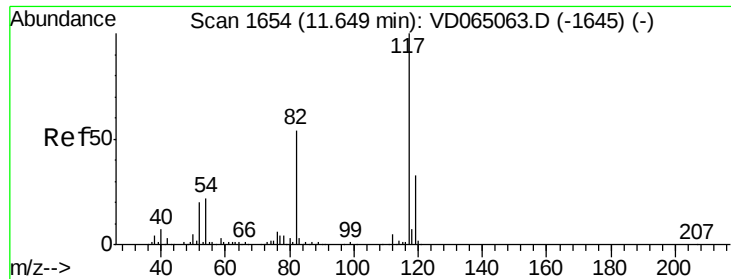
Tot Ion: 63 Resp: 524
Ion Ratio Lower Upper
63 100
106 0.0 23.3 34.9#



#62
4-Bromofluorobenzene
Concen: 46.108 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065199.D
Acq: 17 Feb 2020 16:24

Tgt Ion: 95 Resp: 162204
Ion Ratio Lower Upper
95 100
174 93.0 0.0 180.0
176 86.9 0.0 173.2

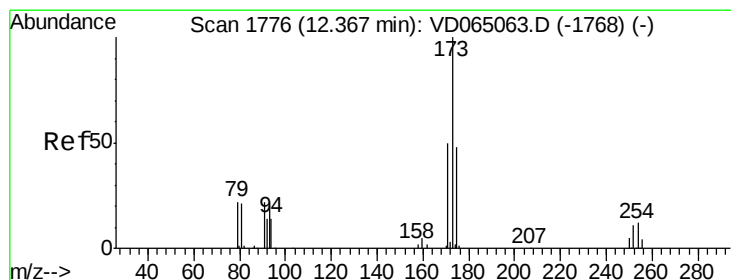
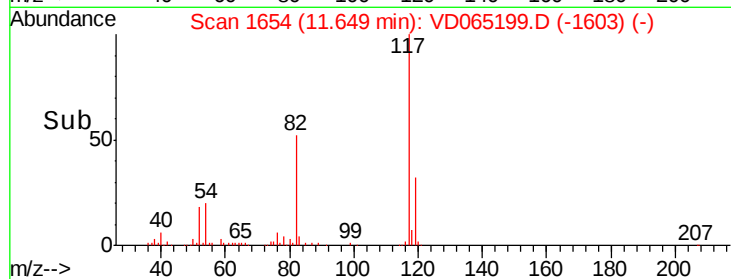
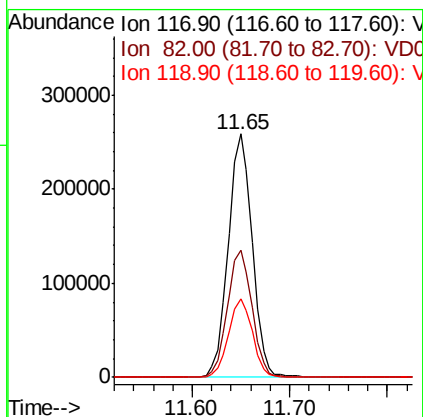
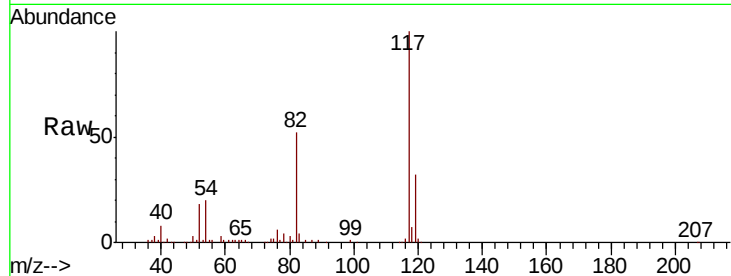




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065199.D
Acq: 17 Feb 2020 16:24

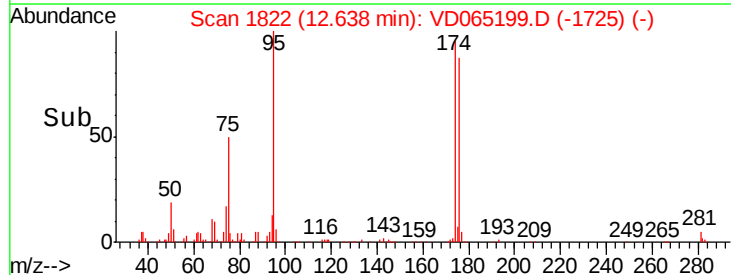
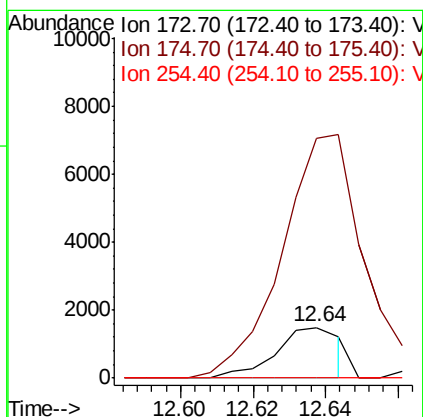
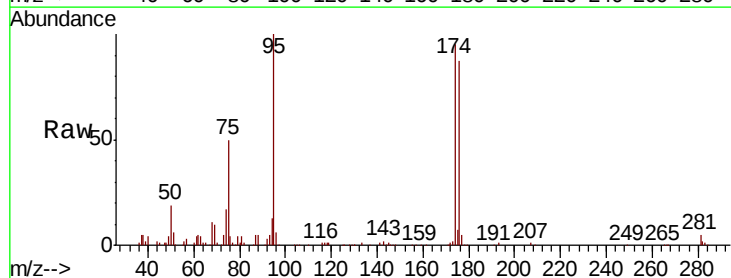
Instrument :
MSVOA_D
ClientSampleId :
43ST-B

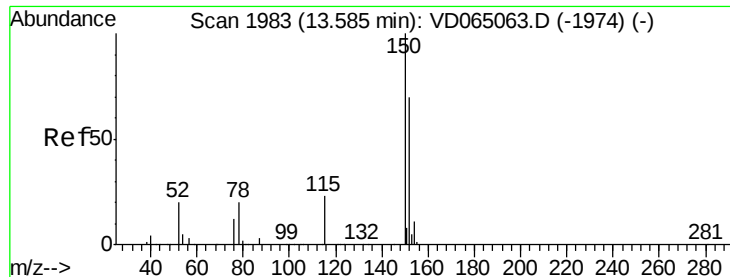
Tot Ion:117 Resp: 441516
Ion Ratio Lower Upper
117 100
82 52.0 43.1 64.7
119 32.2 26.0 39.0



#71
Bromoform
Concen: 1.095 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD065199.D
Acq: 17 Feb 2020 16:24

Tgt Ion:173 Resp: 1857
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

43ST-B

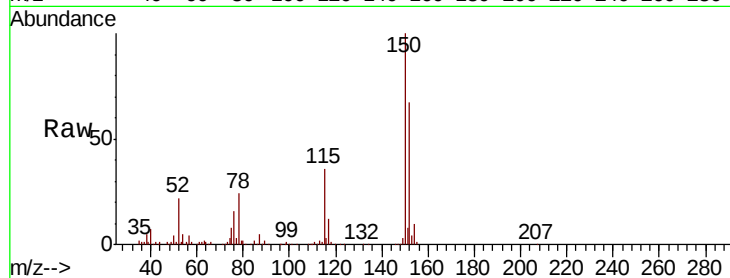
Tot Ion:152 Resp: 169719

Ion Ratio Lower Upper

152 100

115 53.7 27.5 82.4

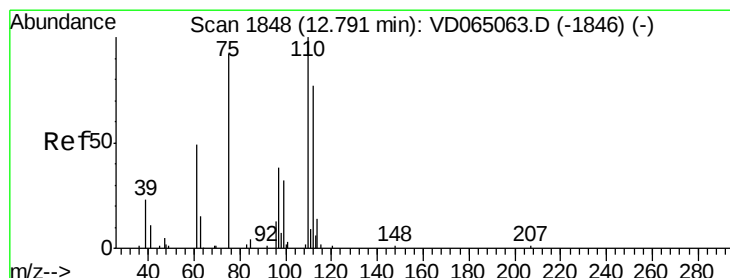
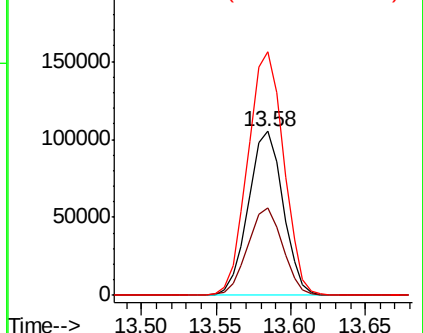
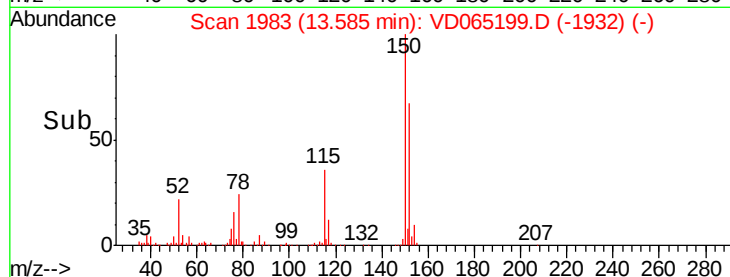
150 153.0 0.0 343.2



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: 63.423 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065199.D

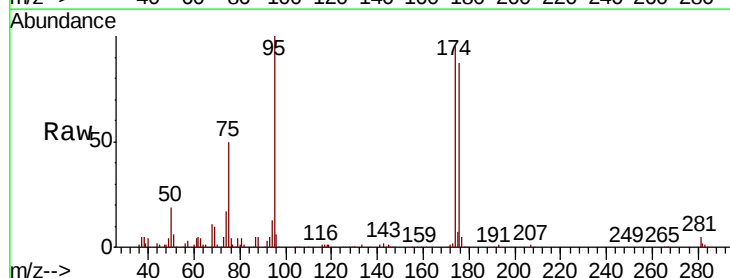
Acq: 17 Feb 2020 16:24

Tgt Ion: 75 Resp: 81495

Ion Ratio Lower Upper

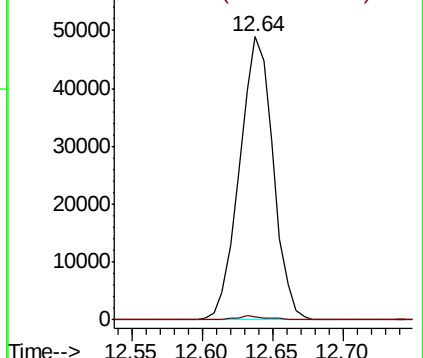
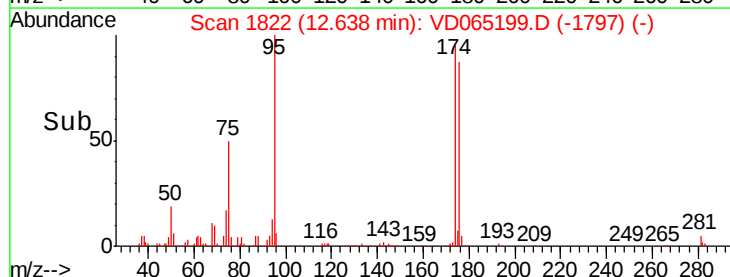
75 100

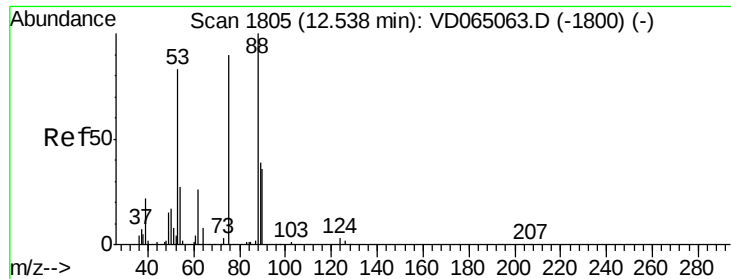
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 126.840 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065199.D

Acq: 17 Feb 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

43ST-B

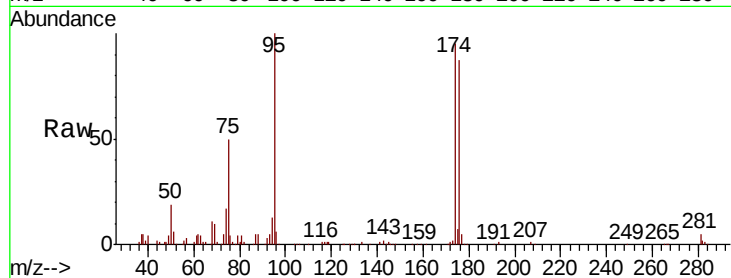
Tot Ion: 75 Resp: 81495

Ion Ratio Lower Upper

75 100

53 0.1 78.5 117.7#

89 0.1 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

