

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032720\
 Data File : VD065555.D
 Acq On : 27 Mar 2020 20:31
 Operator : VA/SY
 Sample : L1762-23
 Misc : 5.42G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 06:37:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	57386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	104926	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	121048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	57212	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	58749	122.98	ug/l	0.00
Spiked Amount			Recovery	=	245.96%	
35) Dibromofluoromethane	7.91	113	51253	79.14	ug/l	0.00
Spiked Amount			Recovery	=	158.28%	
50) Toluene-d8	10.34	98	137028	56.36	ug/l	0.00
Spiked Amount			Recovery	=	112.72%	
62) 4-Bromofluorobenzene	12.64	95	47420	61.45	ug/l	0.00
Spiked Amount			Recovery	=	122.90%	

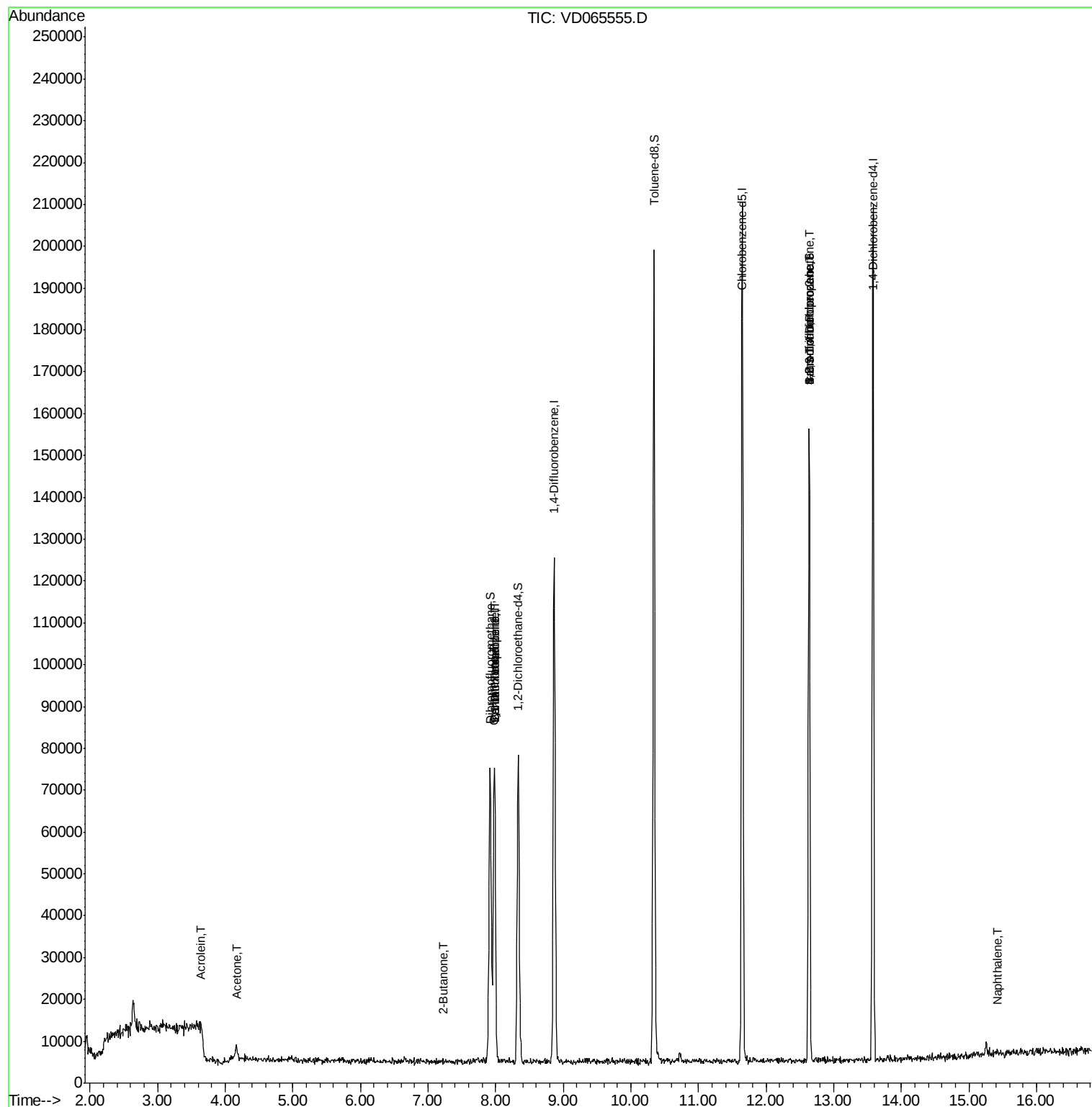
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	140	Below Cal	#	42
5) Bromomethane	2.79	94	321	Below Cal	#	24
13) Acrolein	3.64	56	54	1.191	ug/l #	15
16) Acetone	4.17	43	4394	48.749	ug/l #	75
20) Methylene Chloride	4.96	84	330	Below Cal	#	59
25) 2-Butanone	7.23	43	125	1.021	ug/l #	48
31) Cyclohexane	7.97	56	1019	1.135	ug/l #	53
36) 1,1-Dichloropropene	7.98	75	4001	4.173	ug/l #	41
38) Carbon Tetrachloride	7.98	117	5446	5.394	ug/l #	13
71) Bromoform	12.64	173	543	1.116	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	21860	49.699	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	21860	110.937	ug/l #	13
95) Naphthalene	15.41	128	883	4.779	ug/l #	69

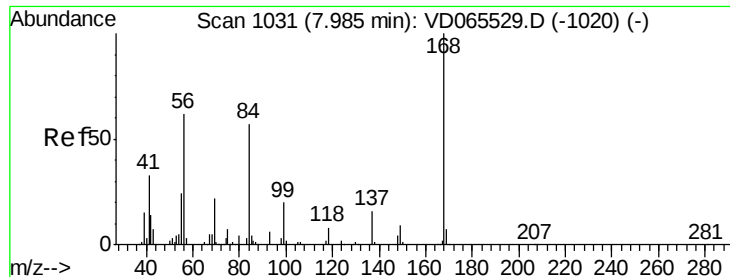
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

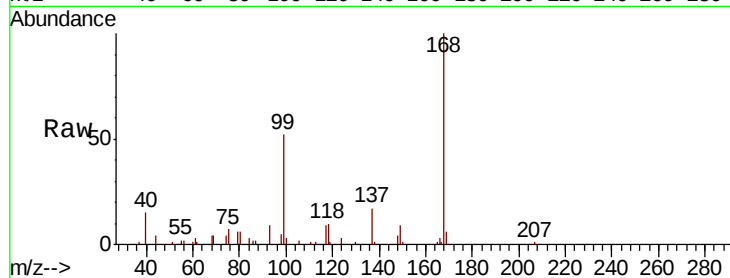
ClientSampleId :

Tot Ion:168 Resp: 57386

Ion Ratio Lower Upper

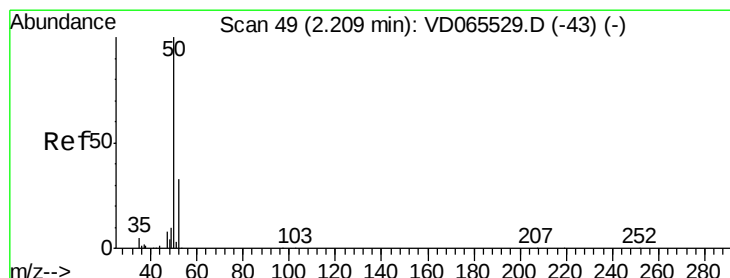
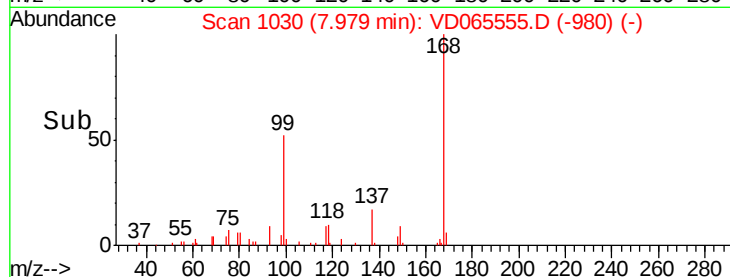
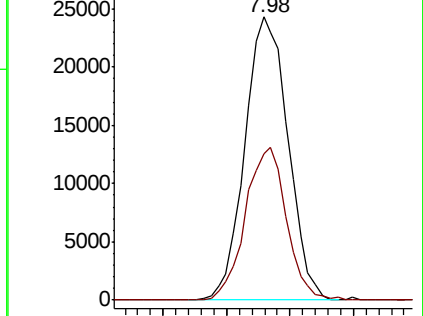
168 100

99 51.5 39.1 58.7



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: VD065555.D

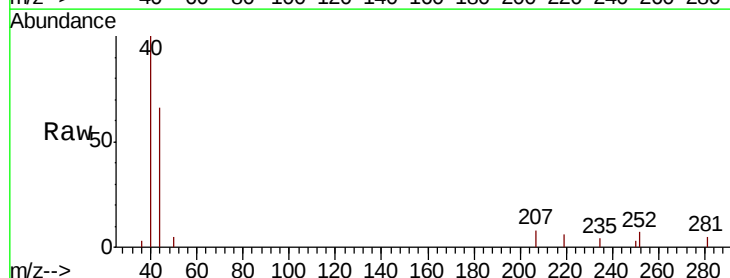
Acq: 27 Mar 2020 20:31

Tgt Ion: 50 Resp: 140

Ion Ratio Lower Upper

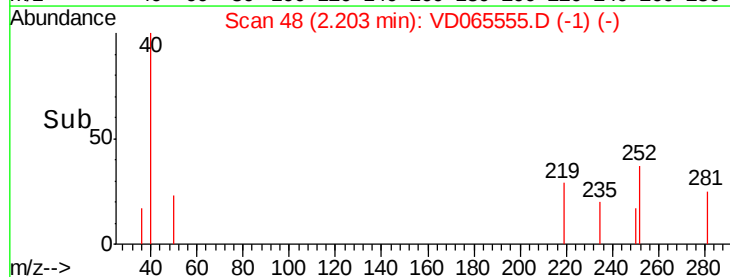
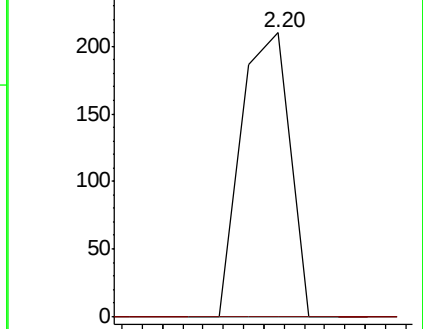
50 100

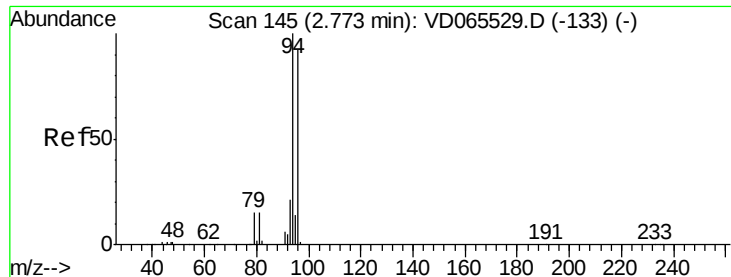
52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

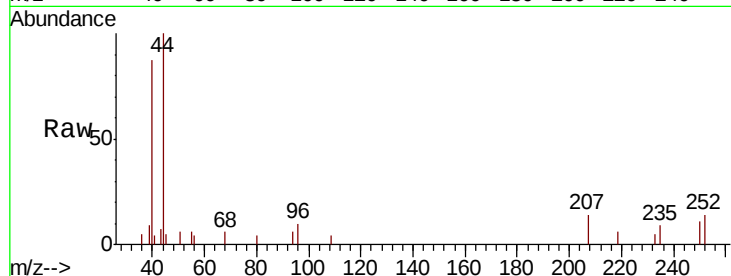
ClientSampled :

Tot Ion: 94 Resp: 321

Ion Ratio Lower Upper

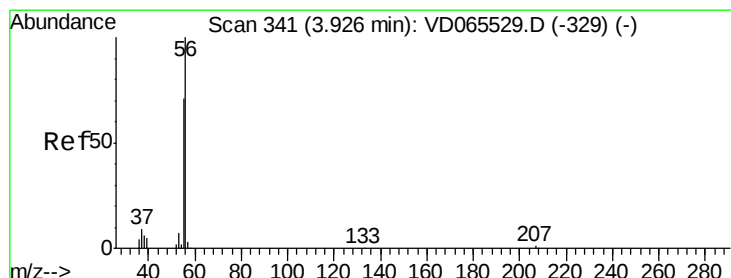
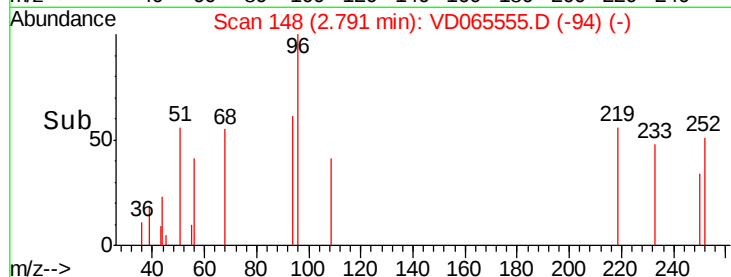
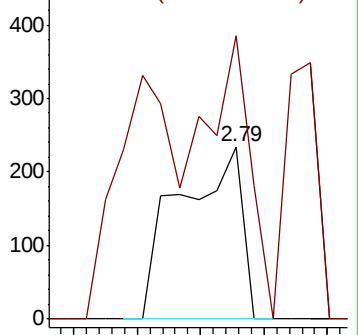
94 100

96 164.5 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#13

Acrolein

Concen: 1.191 ug/l

RT: 3.64 min Scan# 293

Delta R.T. -0.28 min

Lab File: VD065555.D

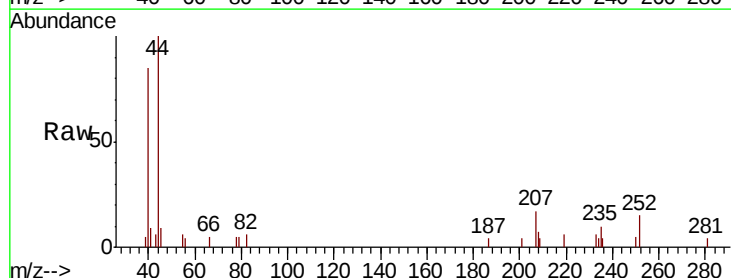
Acq: 27 Mar 2020 20:31

Tgt Ion: 56 Resp: 54

Ion Ratio Lower Upper

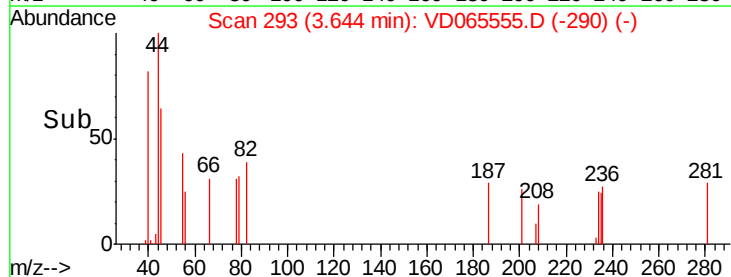
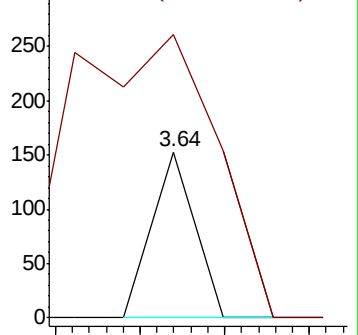
56 100

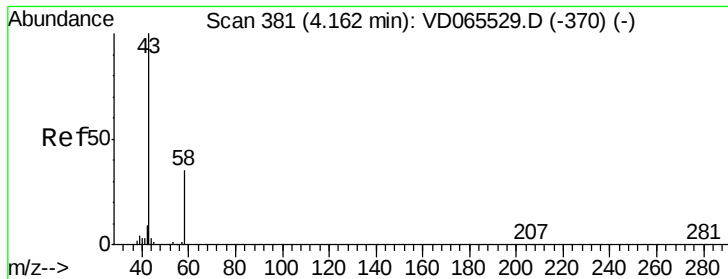
55 0.0 56.2 84.2#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 48.749 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

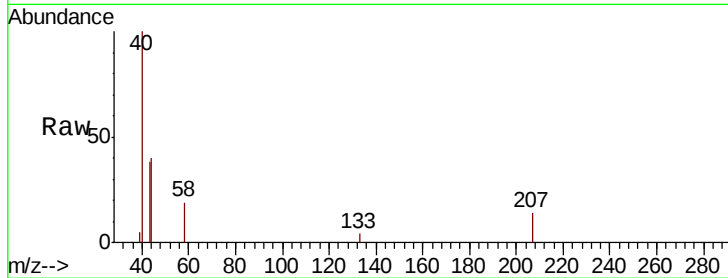
ClientSampleId :

Tot Ion: 43 Resp: 4394

Ion Ratio Lower Upper

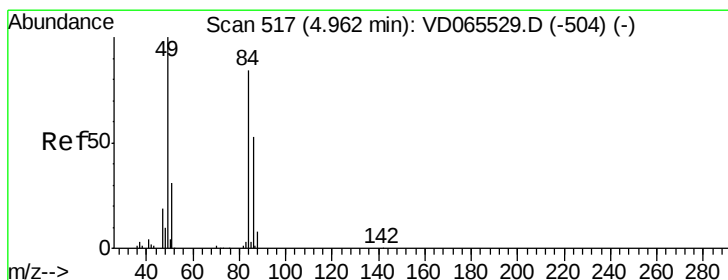
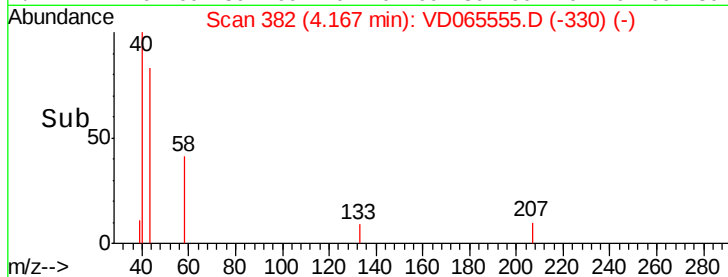
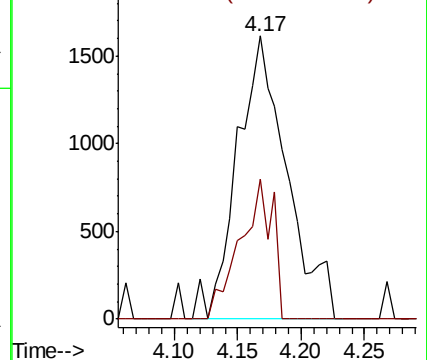
43 100

58 49.7 27.9 41.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Tgt Ion: 84 Resp: 330

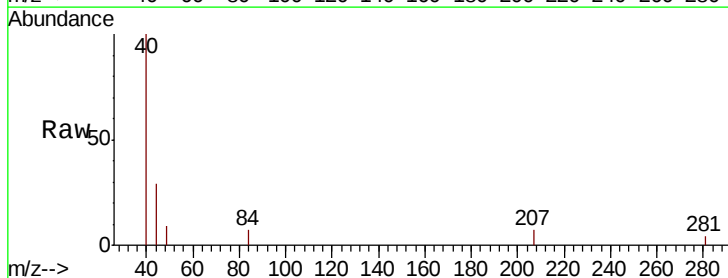
Ion Ratio Lower Upper

84 100

49 133.1 95.6 143.4

51 0.0 29.4 44.2#

86 0.0 50.6 76.0#

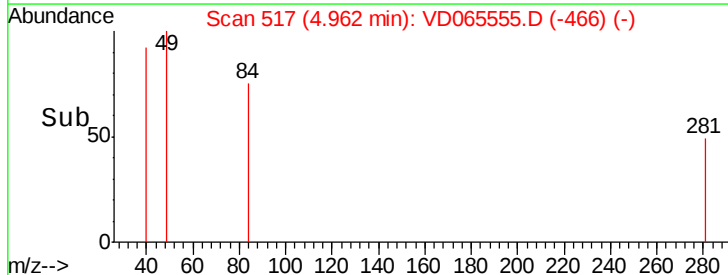
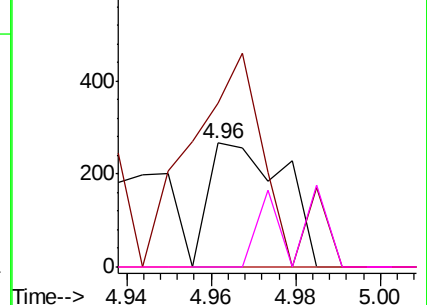


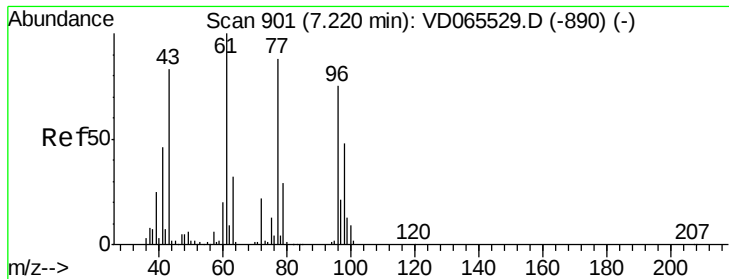
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 1.021 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

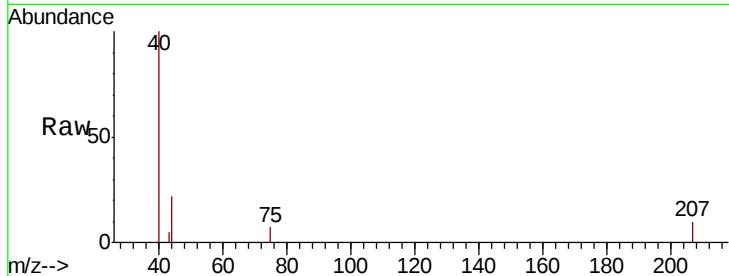
ClientSampleId :

Tot Ion: 43 Resp: 125

Ion Ratio Lower Upper

43 100

72 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.23

200

150

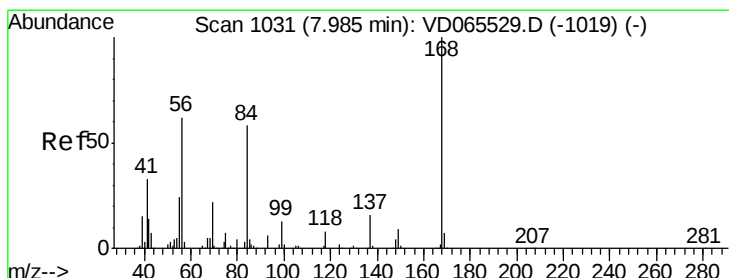
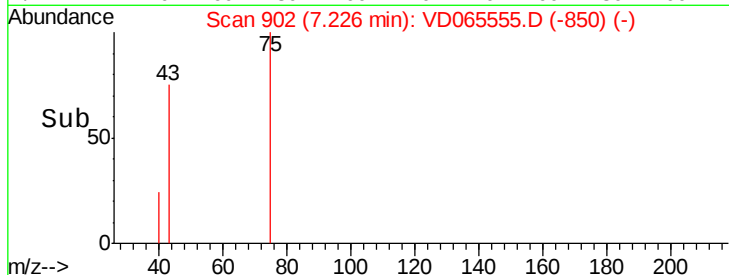
100

50

0

7.21 7.22 7.23 7.24

Time-->



#31

Cyclohexane

Concen: 1.135 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

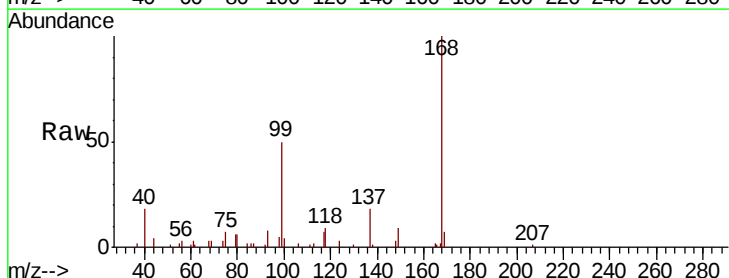
Tgt Ion: 56 Resp: 1019

Ion Ratio Lower Upper

56 100

69 106.7 28.2 42.4#

84 74.5 73.4 110.0



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

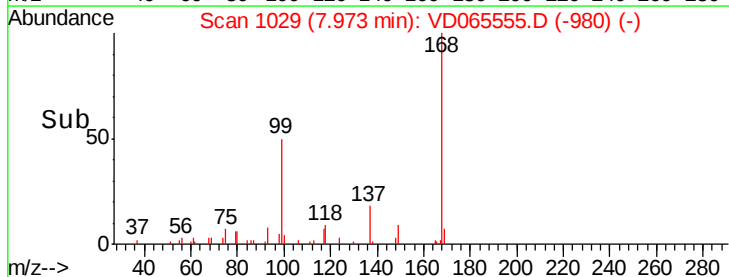
1000

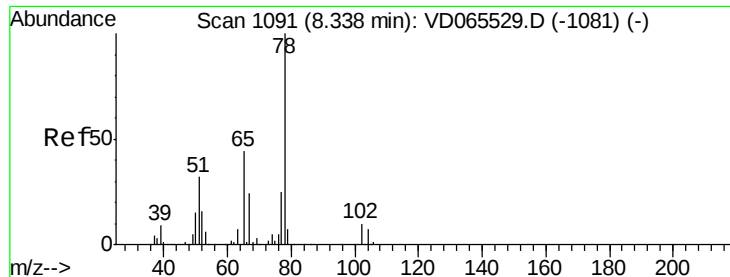
500

0

7.95 8.00

Time-->





#33

1,2-Dichloroethane-d4

Concen: 122.984 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

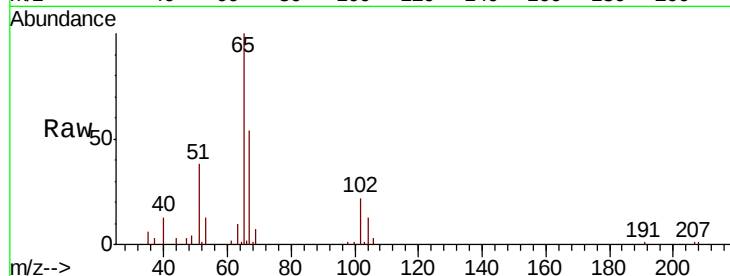
ClientSampleId :

Tot Ion: 65 Resp: 58749

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

25000

20000

15000

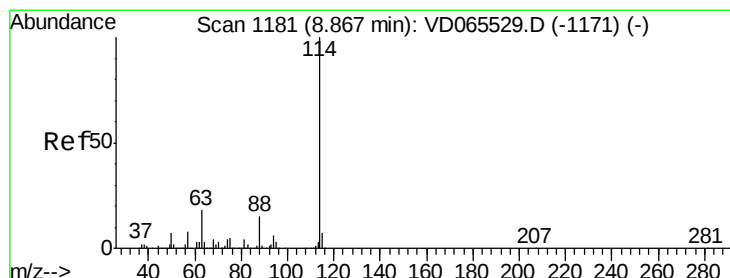
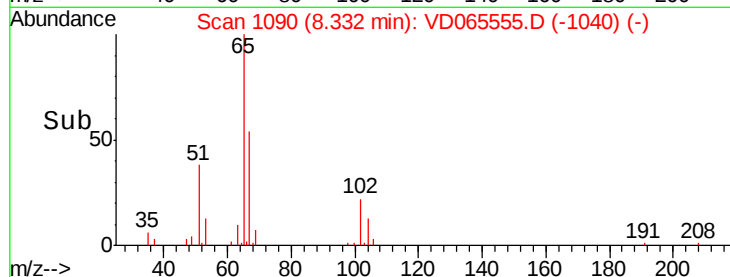
10000

5000

0

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: VD065555.D

Acq: 27 Mar 2020 20:31

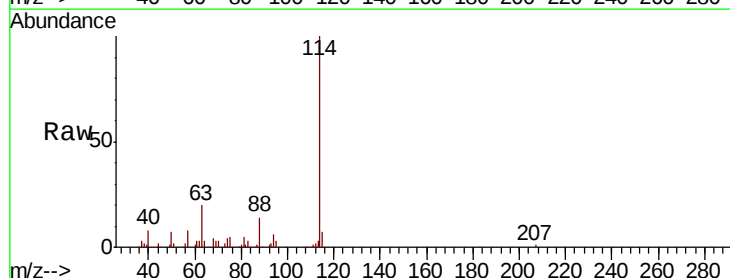
Tgt Ion: 114 Resp: 104926

Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.0

88 14.5 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

60000

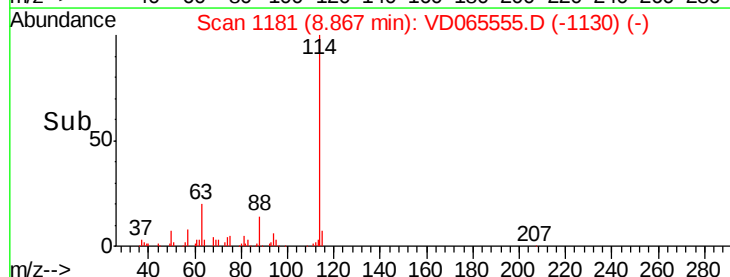
40000

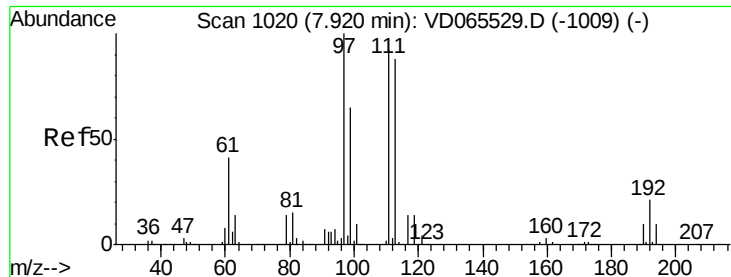
20000

0

8.75 8.80 8.85 8.90 8.95

Time-->

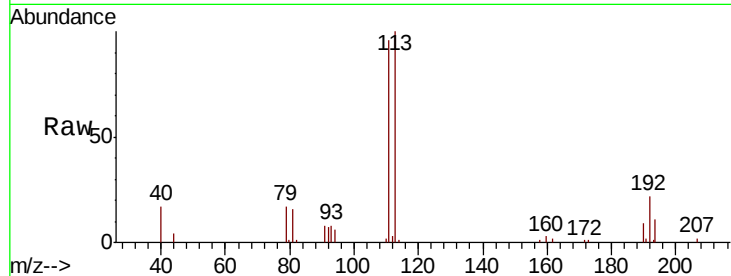




#35
 Dibromofluoromethane
 Concen: 79.137 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD065555.D
 Acq: 27 Mar 2020 20:31

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	99.8	83.3	124.9
192	23.4	18.5	27.7

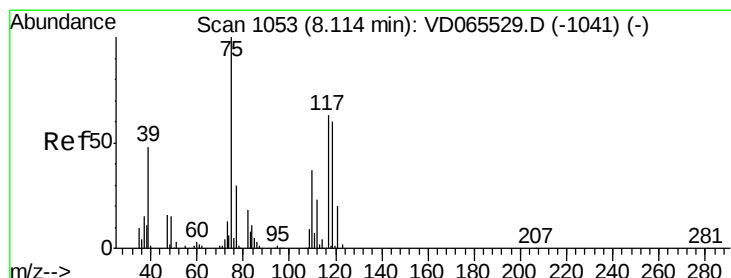
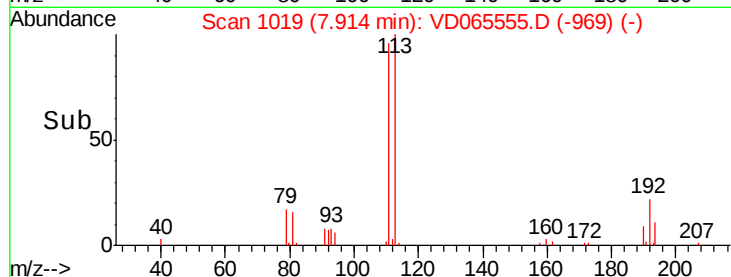
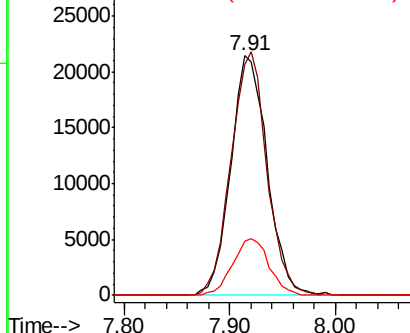


Abundance

Ion 112.80 (112.50 to 113.50): V

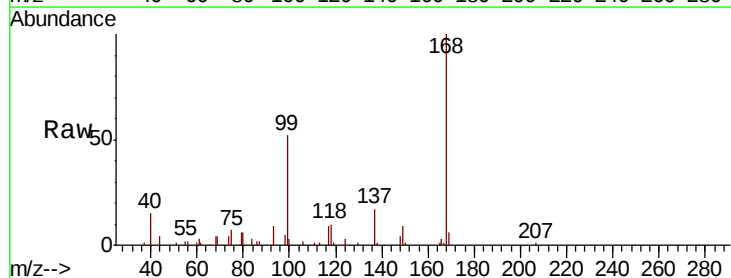
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.173 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065555.D
 Acq: 27 Mar 2020 20:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	1.5	18.8	56.4#
77	0.0	25.1	37.7#

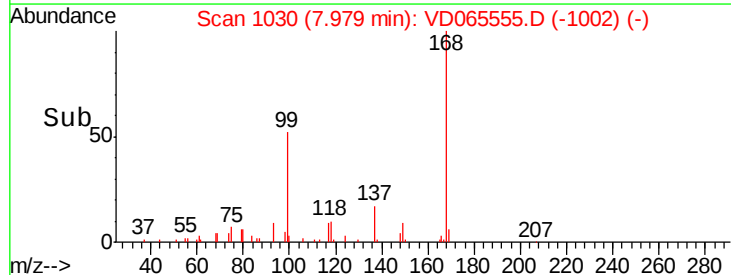
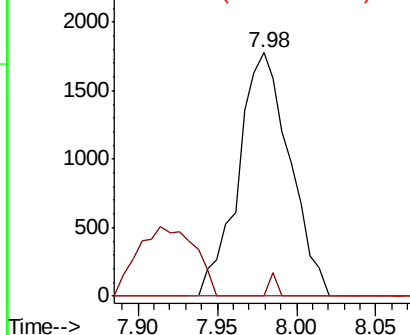


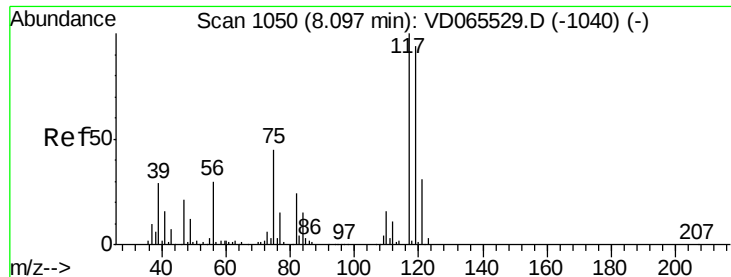
Abundance

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

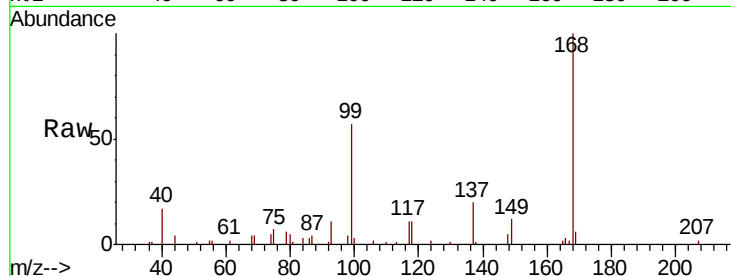




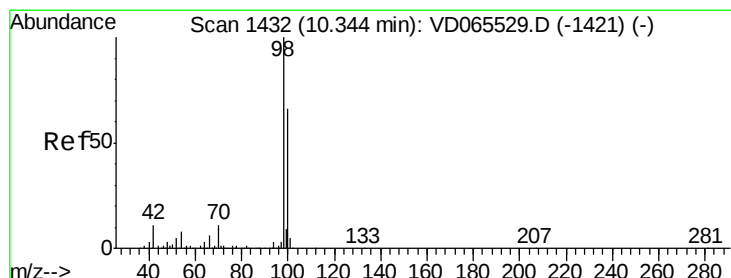
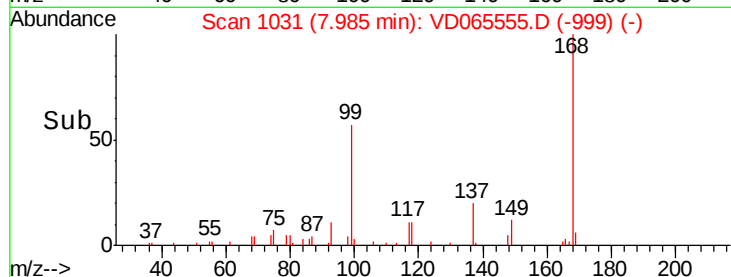
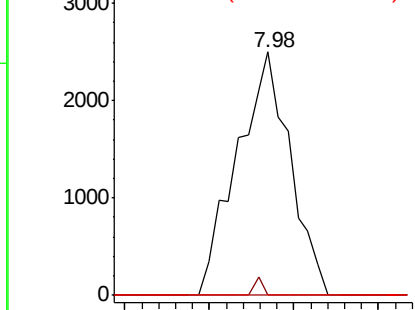
#38
Carbon Tetrachloride
Concen: 5.394 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065555.D
Acq: 27 Mar 2020 20:31

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 5446
Ion Ratio Lower Upper
117 100
119 0.0 75.2 112.8#
121 0.0 24.5 36.7#

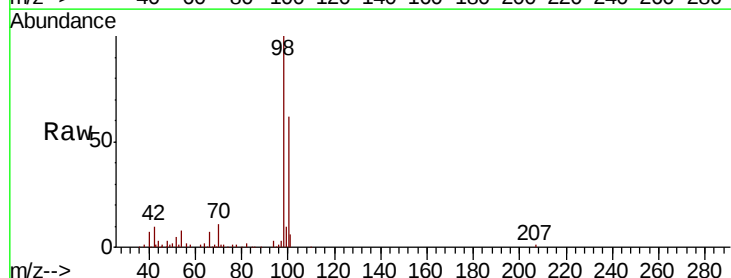


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

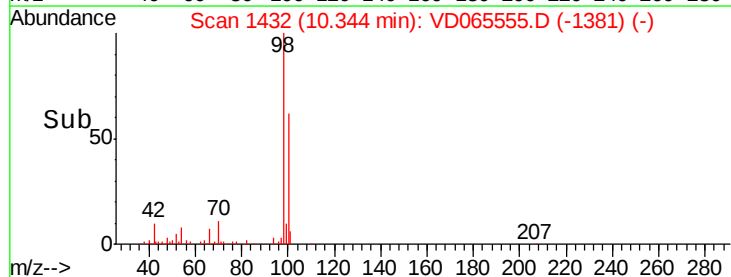
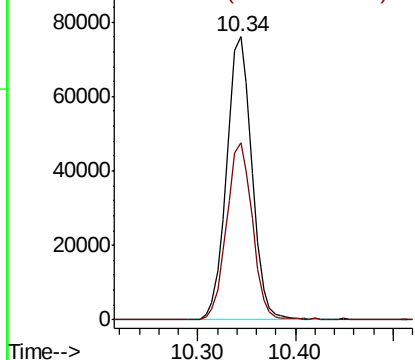


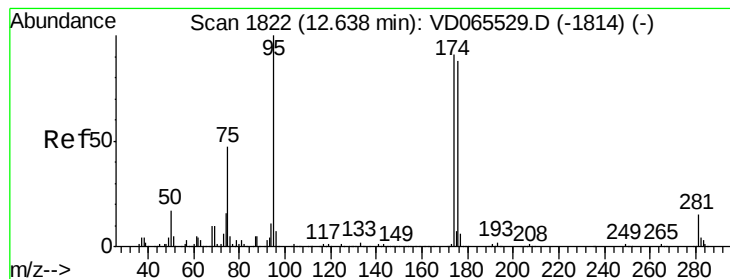
#50
Toluene-d8
Concen: 56.356 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065555.D
Acq: 27 Mar 2020 20:31

Tgt Ion: 98 Resp: 137028
Ion Ratio Lower Upper
98 100
100 63.3 52.2 78.2



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





#62

4-Bromofluorobenzene

Concen: 61.447 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

ClientSampleId :

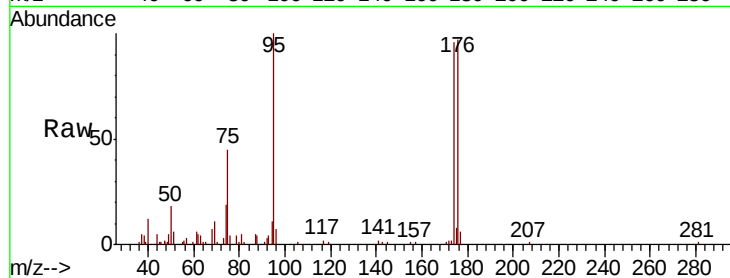
Tot Ion: 95 Resp: 47420

Ion Ratio Lower Upper

95 100

174 93.0 0.0 183.8

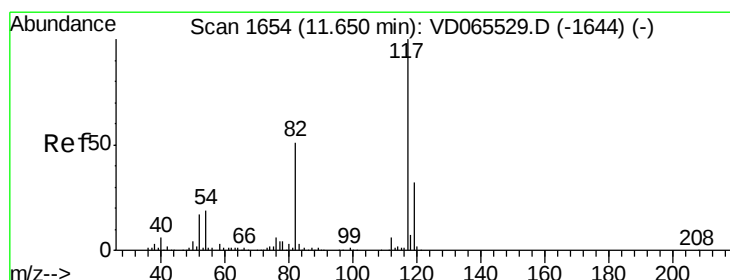
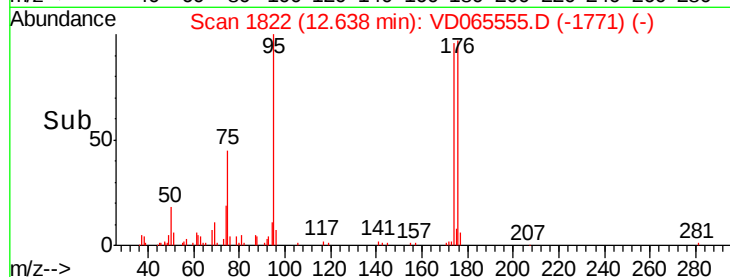
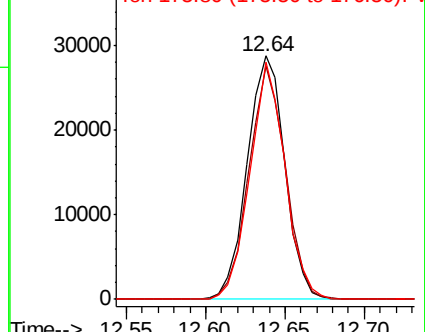
176 90.8 0.0 178.2



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: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

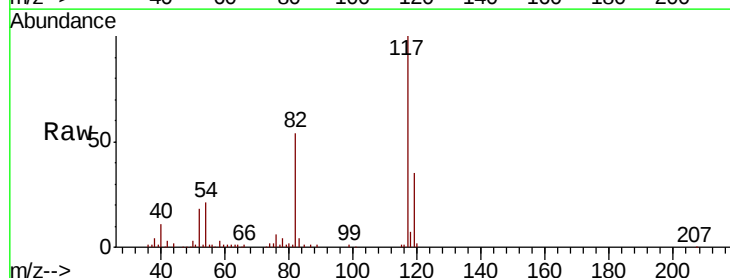
Tgt Ion: 117 Resp: 121048

Ion Ratio Lower Upper

117 100

82 53.6 41.0 61.6

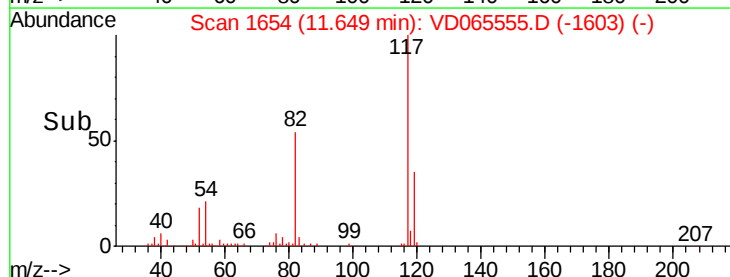
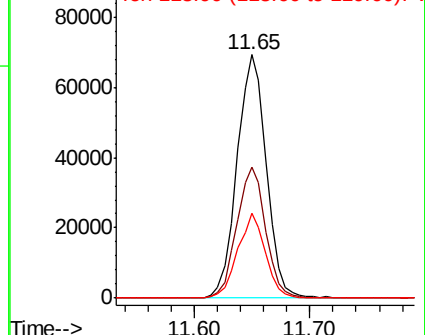
119 35.0 25.5 38.3

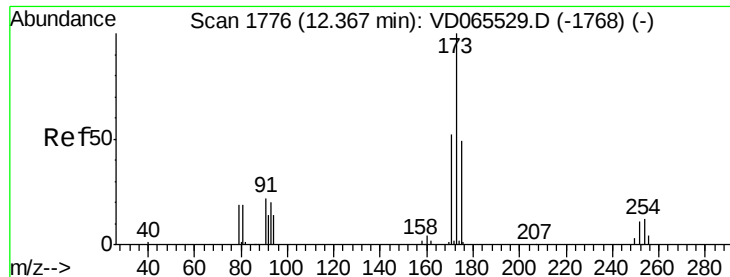


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 1.116 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

ClientSampleId :

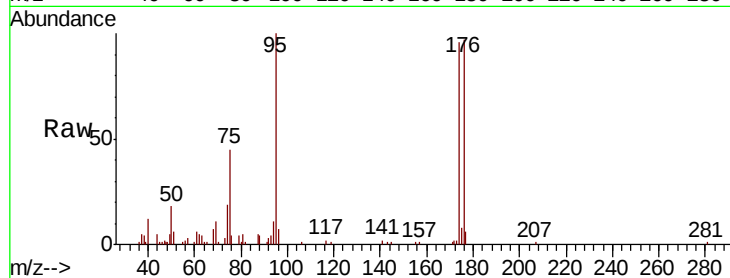
Tot Ion:173 Resp: 543

Ion Ratio Lower Upper

173 100

175 486.7 24.3 72.8#

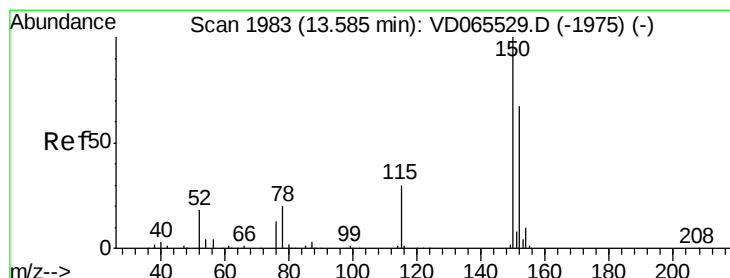
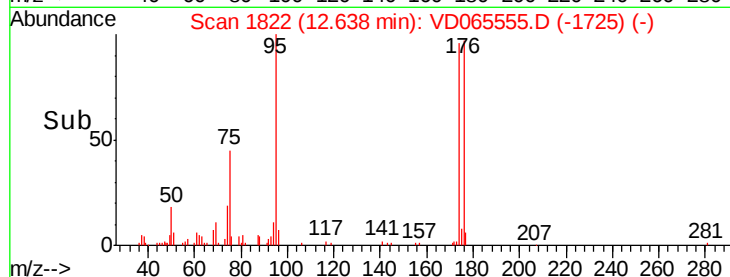
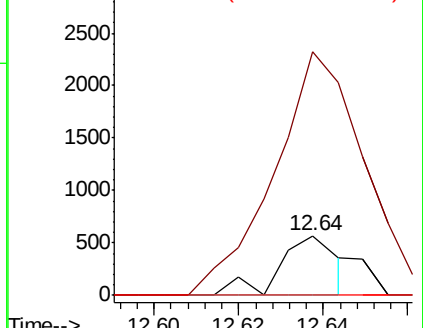
254 0.0 0.0 0.0



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# 1983

Delta R.T. -0.00 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

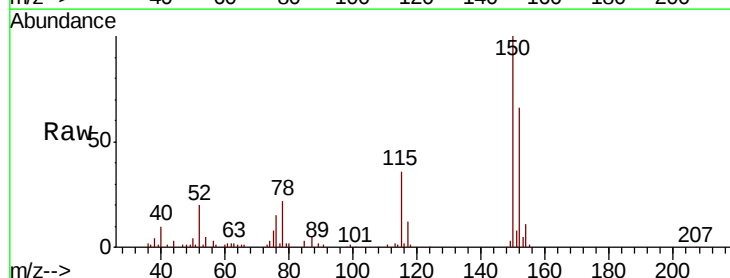
Tgt Ion:152 Resp: 57212

Ion Ratio Lower Upper

152 100

115 55.4 27.2 81.6

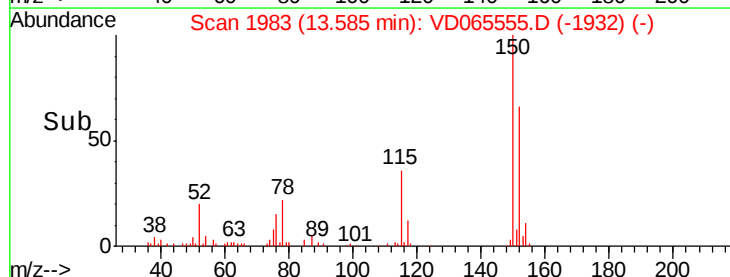
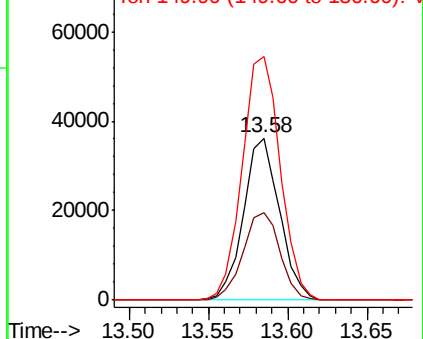
150 158.4 0.0 340.2

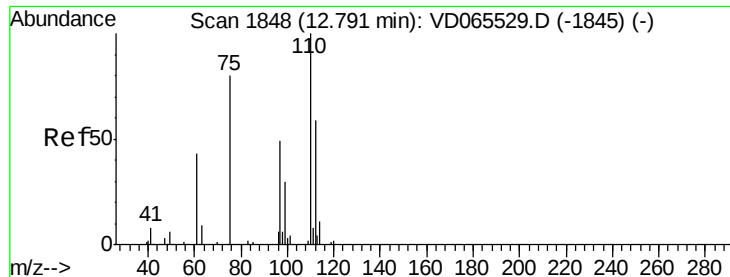


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 49.699 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

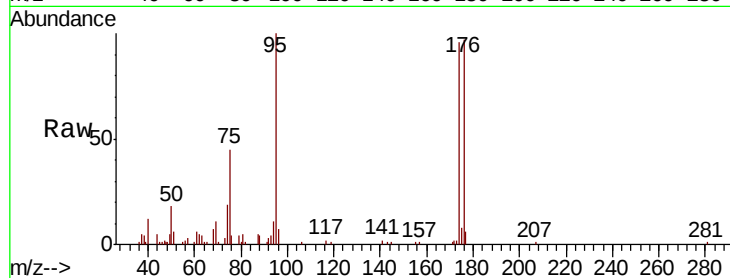
ClientSampleId :

Tot Ion: 75 Resp: 21860

Ion Ratio Lower Upper

75 100

77 0.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

15000

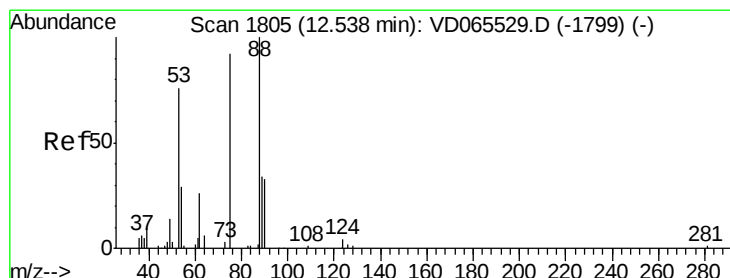
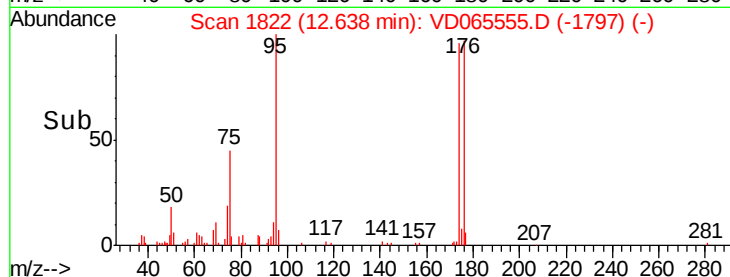
12.64

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.937 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

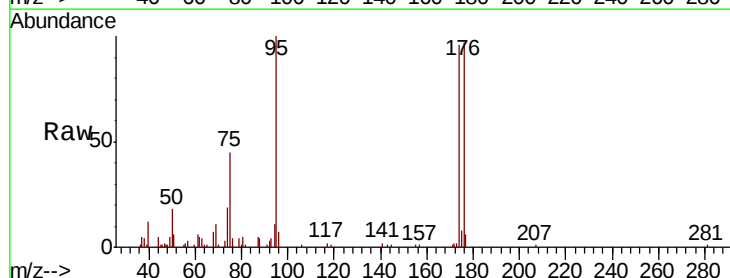
Tgt Ion: 75 Resp: 21860

Ion Ratio Lower Upper

75 100

53 0.0 72.4 108.6#

89 0.0 36.9 55.3#



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

15000

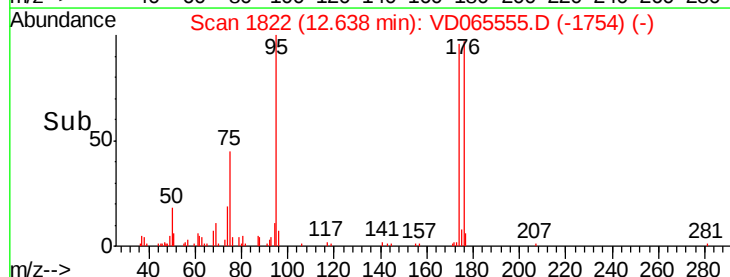
12.64

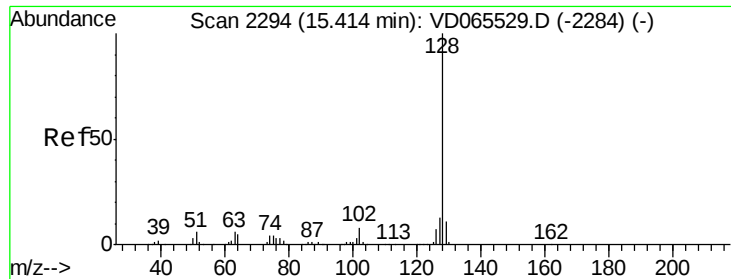
10000

5000

0

Time-->





#95

Naphthalene

Concen: 4.779 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065555.D

Acq: 27 Mar 2020 20:31

Instrument :

MSVOA_D

ClientSampleId :

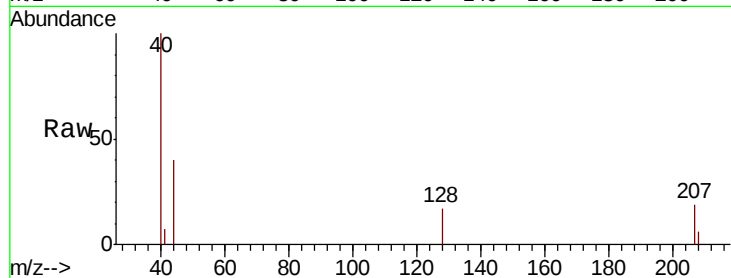
Tot Ion:128 Resp: 883

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



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

