

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD050720\
 Data File : VD065711.D
 Acq On : 07 May 2020 14:19
 Operator : VA/SY
 Sample : L2531-05
 Misc : 6.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-15-(1-2)

Quant Time: May 08 06:02:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050620S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 17:01:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	413509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	681377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	593307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	261006	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	197785	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
35) Dibromofluoromethane	7.91	113	214616	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	10.34	98	808406	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
62) 4-Bromofluorobenzene	12.64	95	262670	45.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.62%	

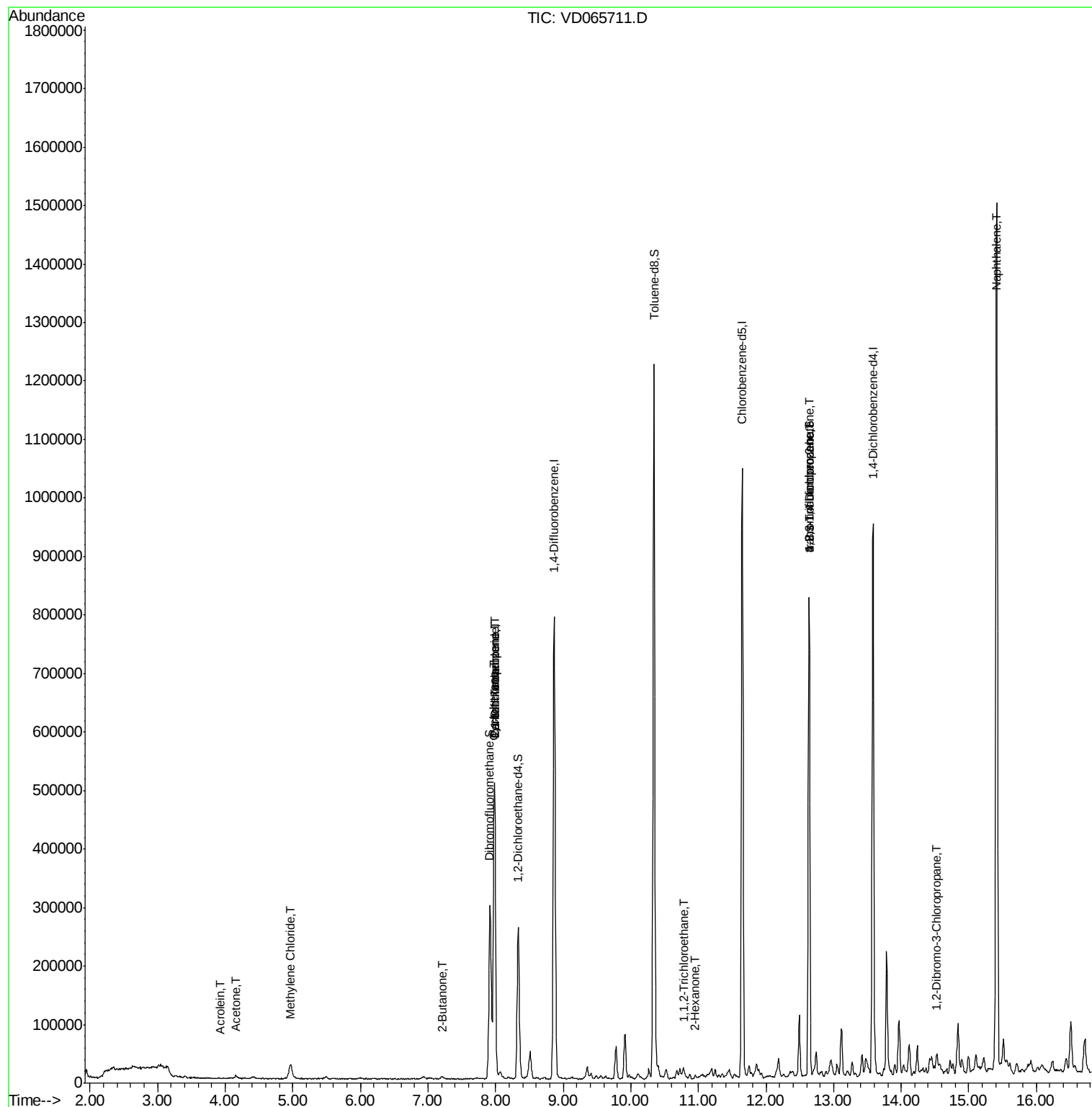
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	66	Below Cal	#	71
13) Acrolein	3.92	56	594	1.75	ug/l #	64
16) Acetone	4.17	43	8891	10.05	ug/l	98
20) Methylene Chloride	4.97	84	17514	3.93	ug/l #	82
25) 2-Butanone	7.21	43	2234	1.70	ug/l #	51
31) Cyclohexane	7.97	56	10527	1.27	ug/l #	44
36) 1,1-Dichloropropene	7.99	75	28560	4.22	ug/l #	51
38) Carbon Tetrachloride	7.98	117	38327	5.71	ug/l #	16
55) 1,1,2-Trichloroethane	10.78	97	6688	2.07	ug/l #	28
59) 2-Hexanone	10.96	43	2180	1.01	ug/l #	27
76) 1,2,3-Trichloropropane	12.64	75	133523	60.57	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	133523	107.22	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.52	75	831	1.49	ug/l #	1
95) Naphthalene	15.41	128	1333577	137.48	ug/l	99

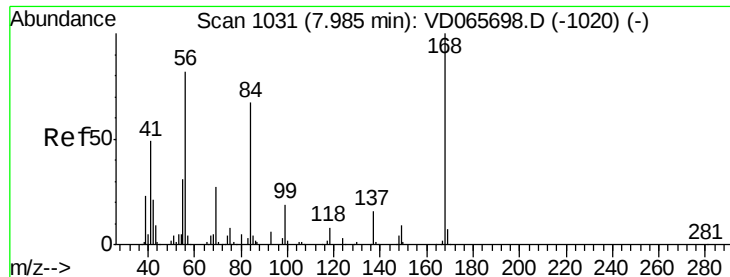
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 06 17:01:16 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

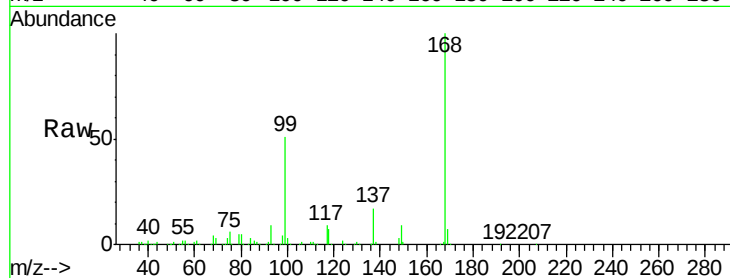
TP-15-(1-2)

Tgt Ion:168 Resp: 413509

Ion Ratio Lower Upper

168 100

99 51.2 44.2 66.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

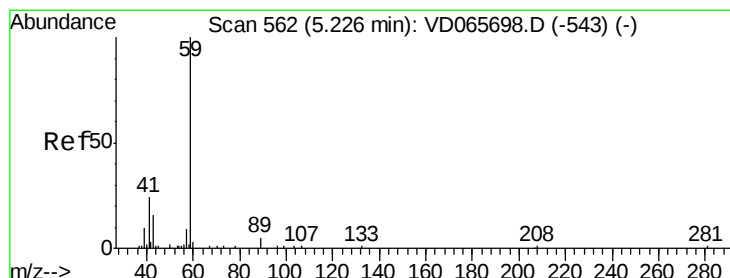
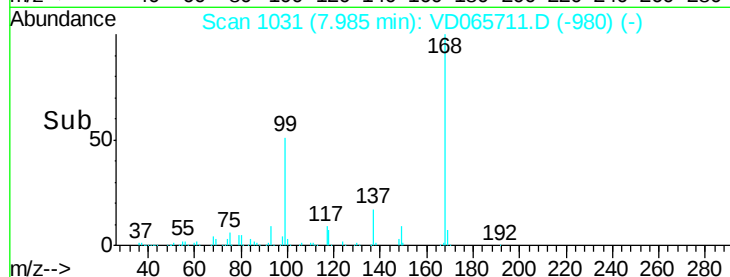
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD065711.D

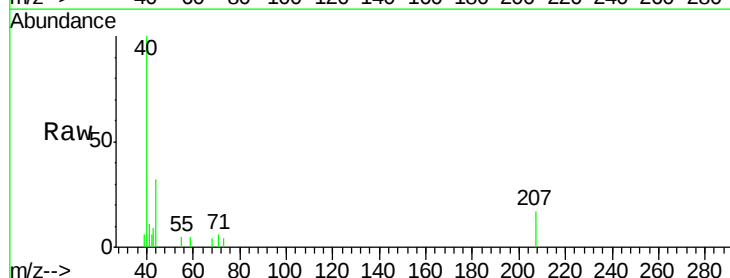
Acq: 07 May 2020 14:19

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

300

250

200

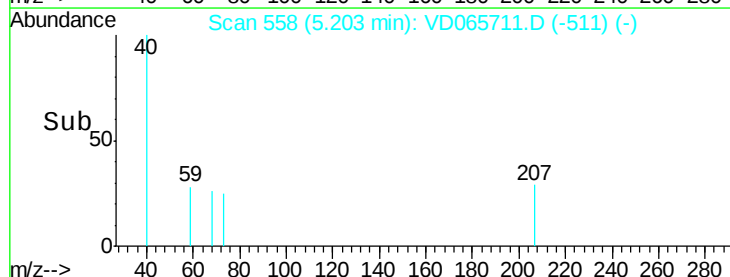
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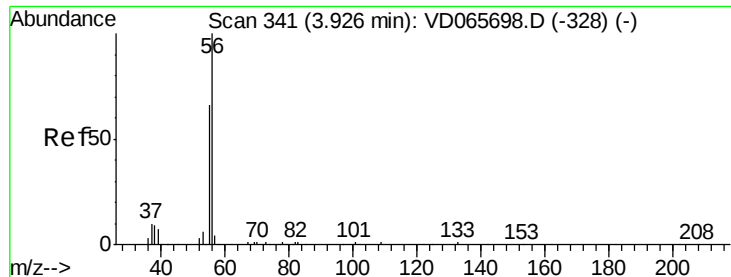
100

50

0

Time-->





#13

Acrolein

Concen: 1.75 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

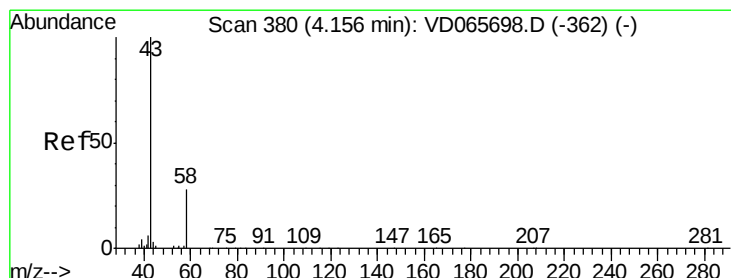
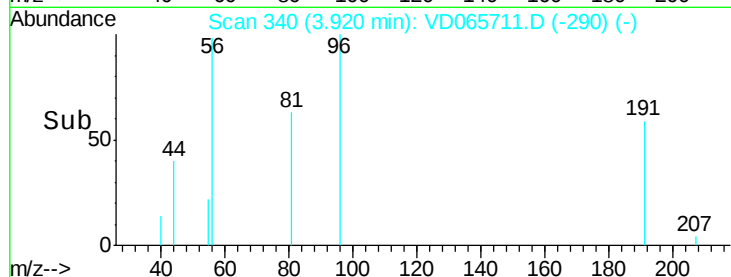
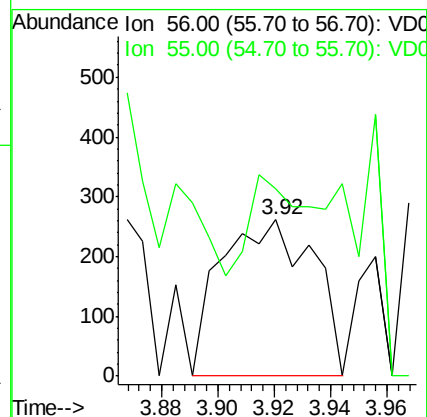
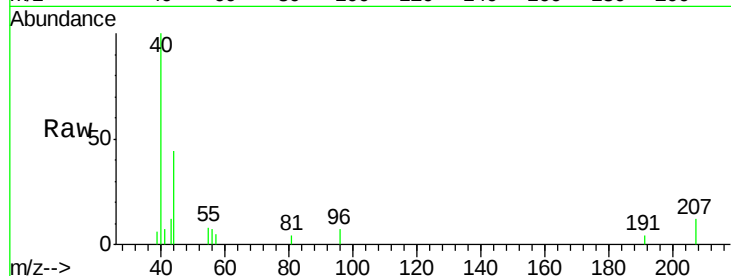
TP-15-(1-2)

Tgt Ion: 56 Resp: 594

Ion Ratio Lower Upper

56 100

55 40.9 56.7 85.1#



#16

Acetone

Concen: 10.05 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD065711.D

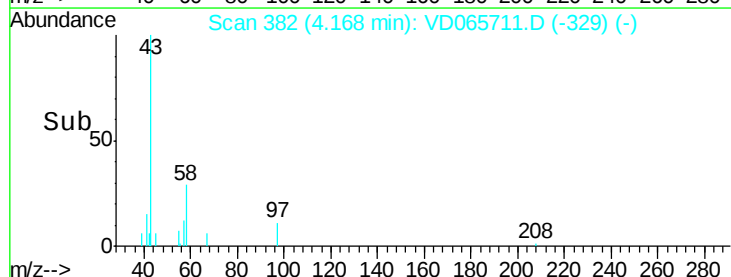
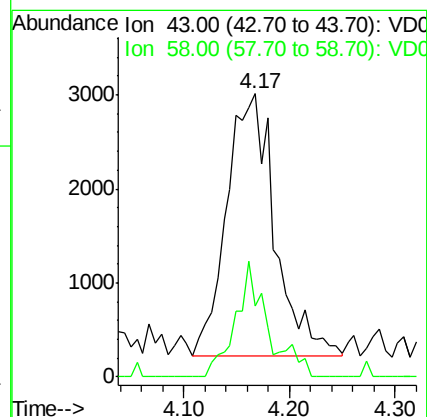
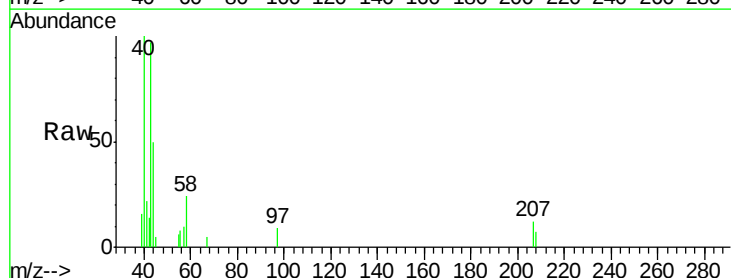
Acq: 07 May 2020 14:19

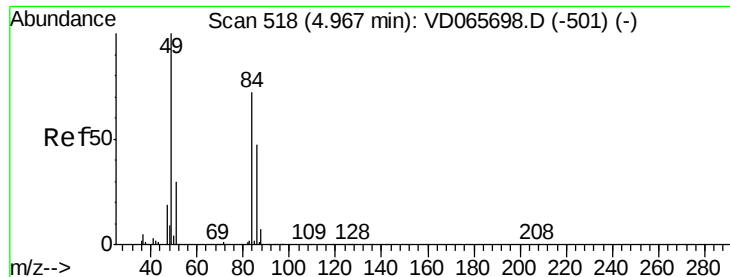
Tgt Ion: 43 Resp: 8891

Ion Ratio Lower Upper

43 100

58 27.2 22.5 33.7

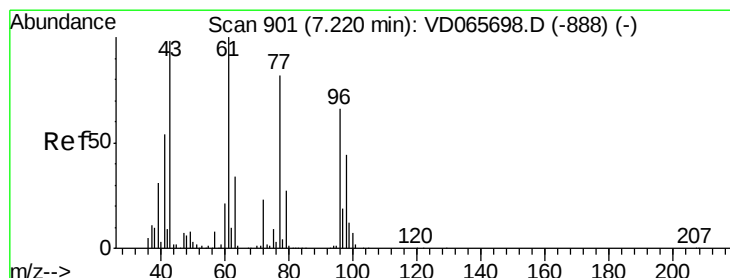
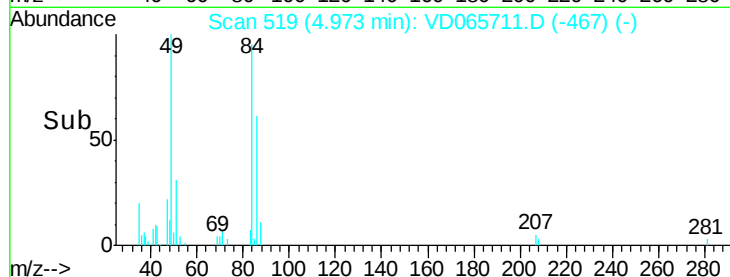
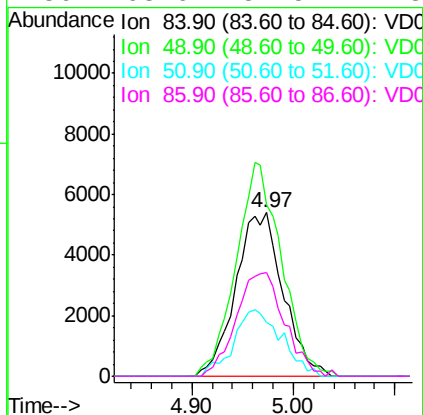
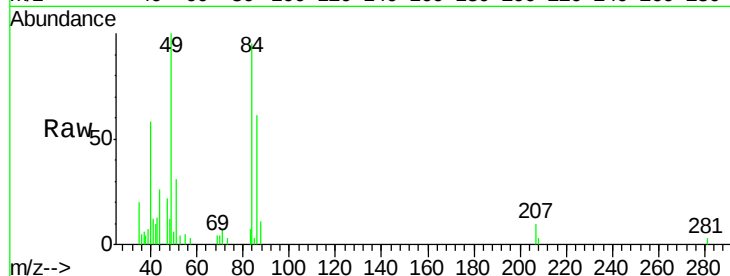




#20
Methylene Chloride
Concen: 3.93 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

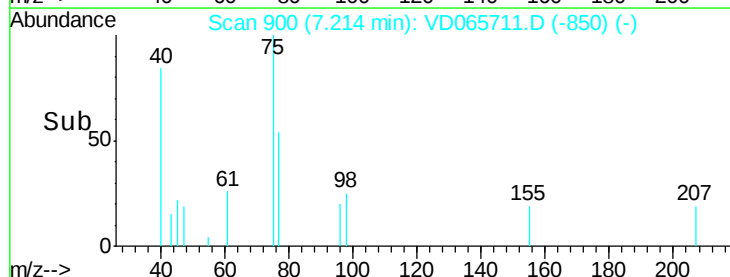
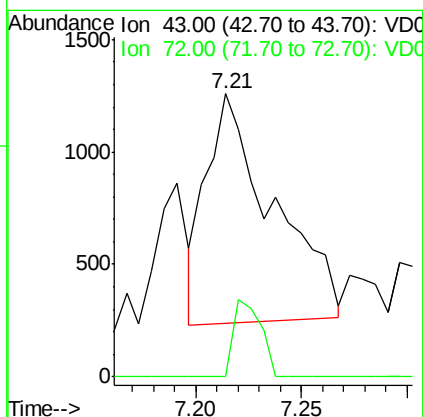
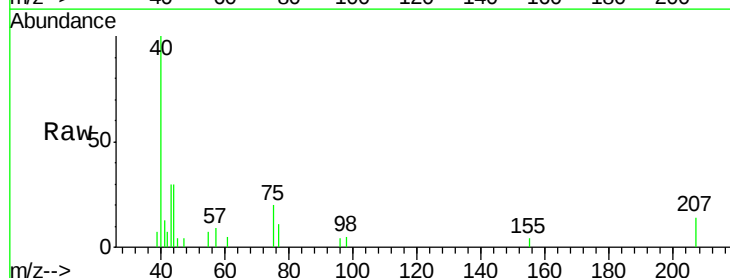
Instrument :
MSVOA_D
ClientSampleId :
TP-15-(1-2)

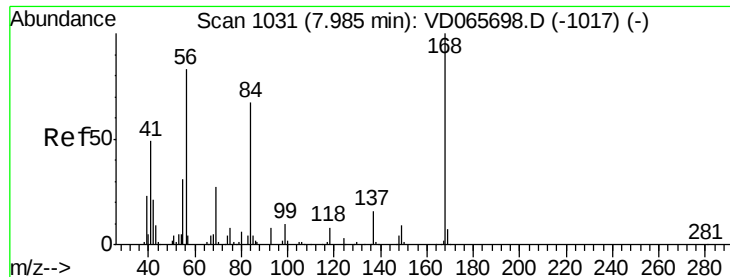
Tgt Ion: 84 Resp: 17514
Ion Ratio Lower Upper
84 100
49 105.0 110.4 165.6#
51 32.8 33.4 50.2#
86 63.6 51.5 77.3



#25
2-Butanone
Concen: 1.70 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.01 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

Tgt Ion: 43 Resp: 2234
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#

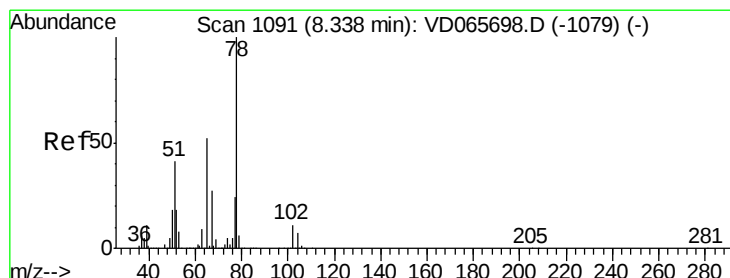
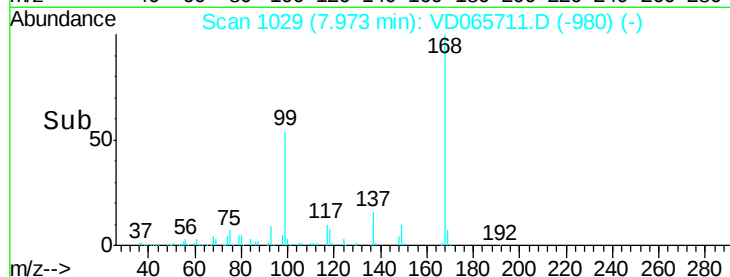
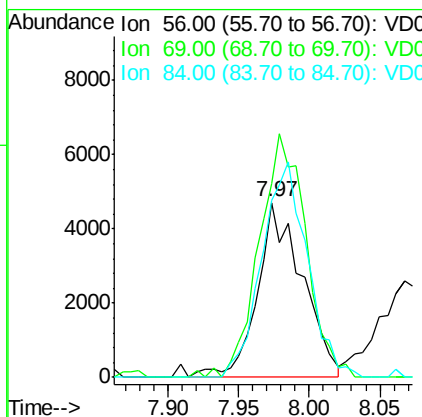
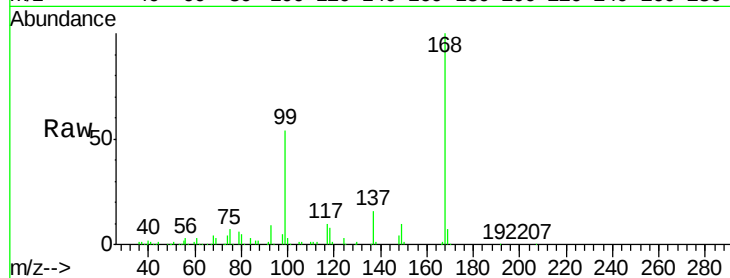




#31
Cyclohexane
Concen: 1.27 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

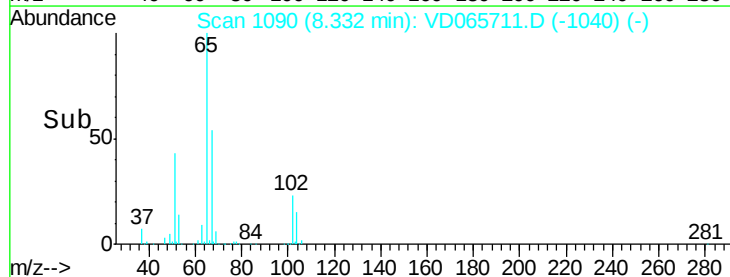
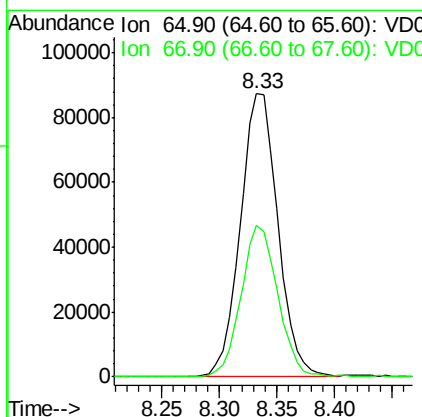
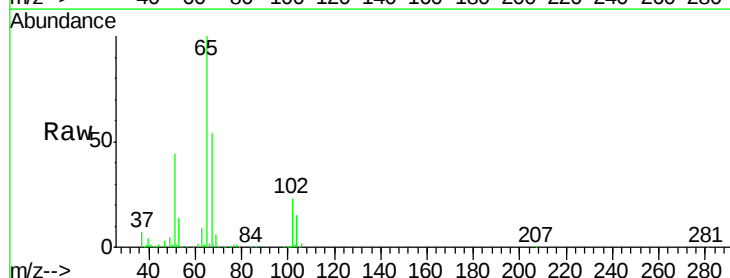
Instrument :
MSVOA_D
ClientSampleId :
TP-15-(1-2)

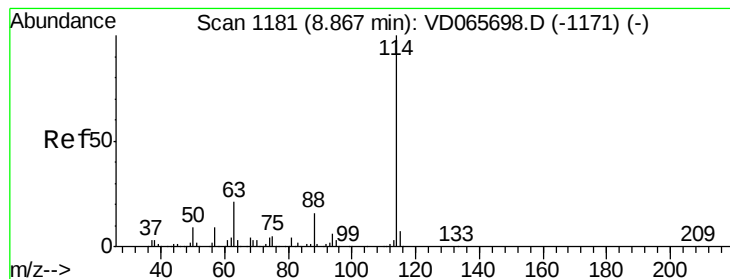
Tgt Ion: 56 Resp: 10527
Ion Ratio Lower Upper
56 100
69 110.7 26.3 39.5#
84 101.0 64.5 96.7#



#33
1,2-Dichloroethane-d4
Concen: 47.75 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

Tgt Ion: 65 Resp: 197785
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-15-(1-2)

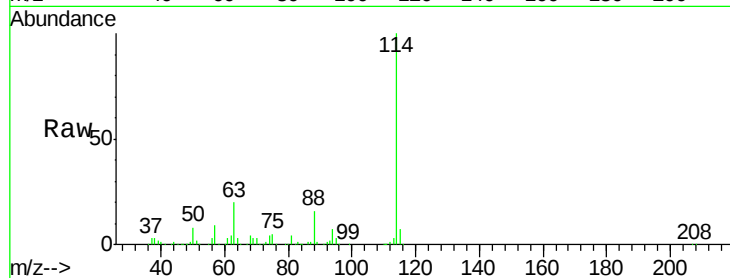
Tgt Ion:114 Resp: 681377

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

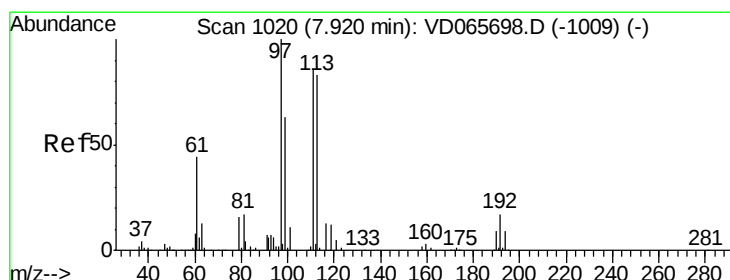
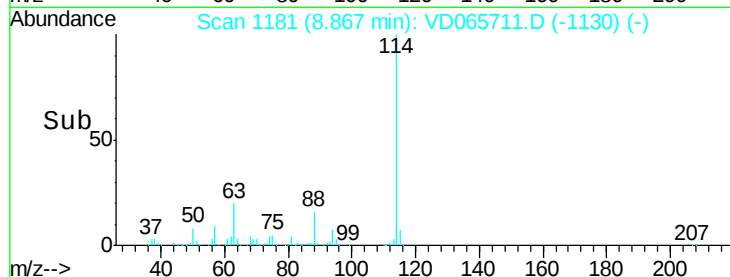
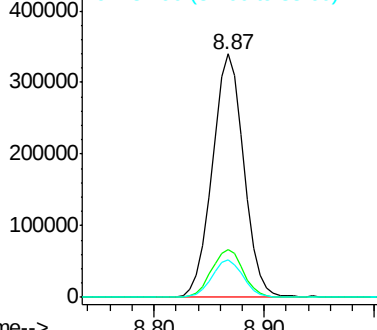
88 15.6 0.0 32.6



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: 50.40 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

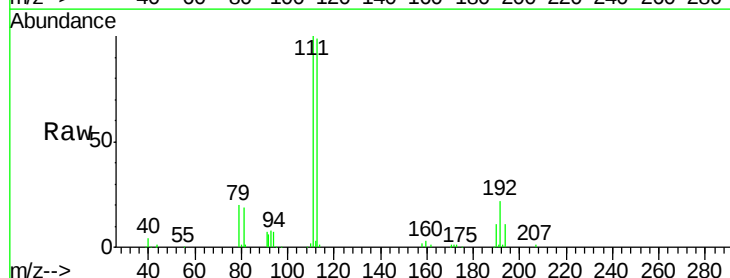
Tgt Ion:113 Resp: 214616

Ion Ratio Lower Upper

113 100

111 102.8 82.7 124.1

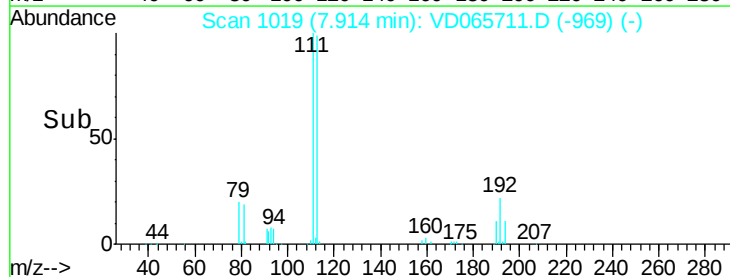
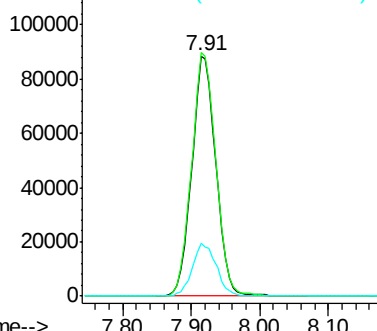
192 21.9 17.0 25.4

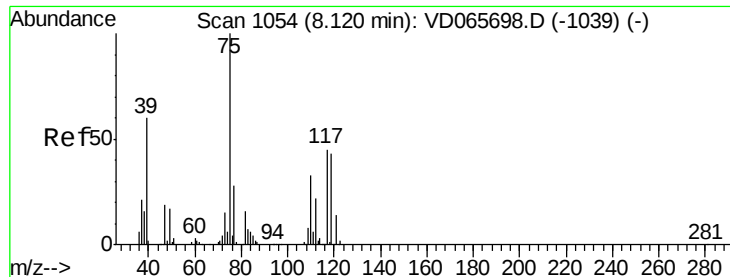


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.22 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.13 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

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TP-15-(1-2)

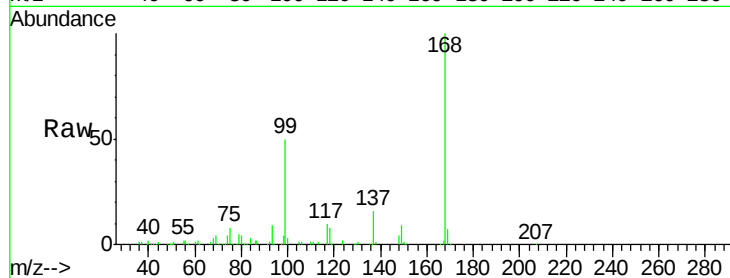
Tgt Ion: 75 Resp: 28560

Ion Ratio Lower Upper

75 100

110 9.4 17.2 51.6#

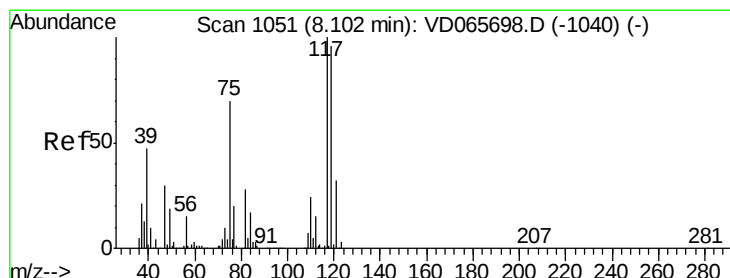
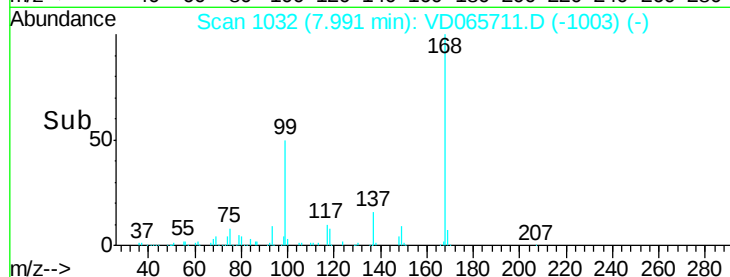
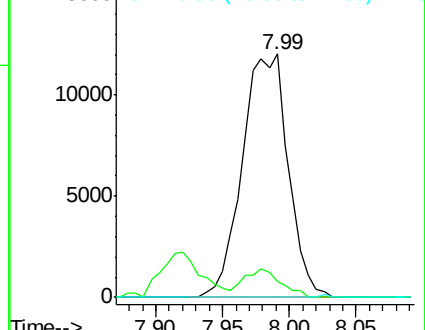
77 0.0 23.7 35.5#



Abundance Ion 74.90 (74.60 to 75.60): VD

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VD



#38

Carbon Tetrachloride

Concen: 5.71 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

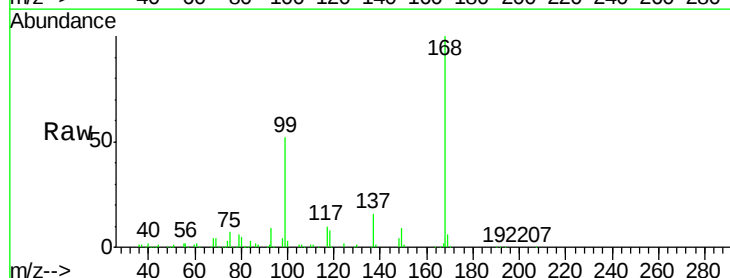
Tgt Ion: 117 Resp: 38327

Ion Ratio Lower Upper

117 100

119 5.1 77.1 115.7#

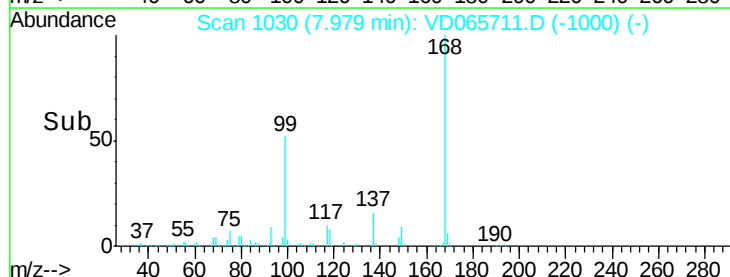
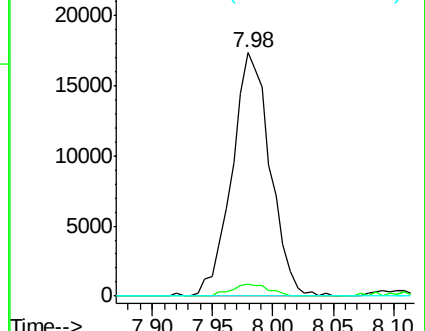
121 0.0 25.5 38.3#

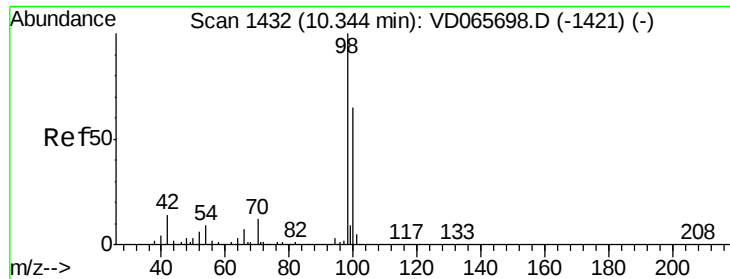


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.43 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

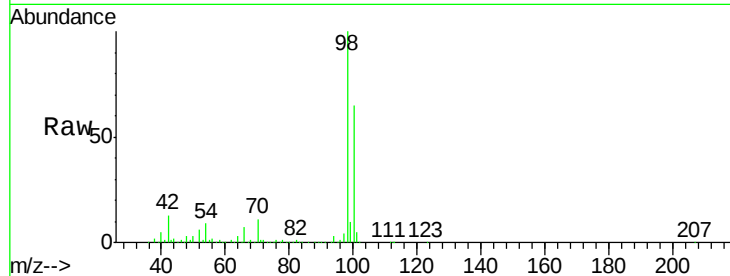
TP-15-(1-2)

Tgt Ion: 98 Resp: 808406

Ion Ratio Lower Upper

98 100

100 66.3 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

500000

400000

300000

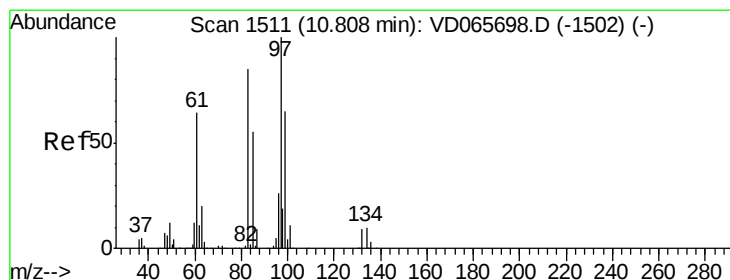
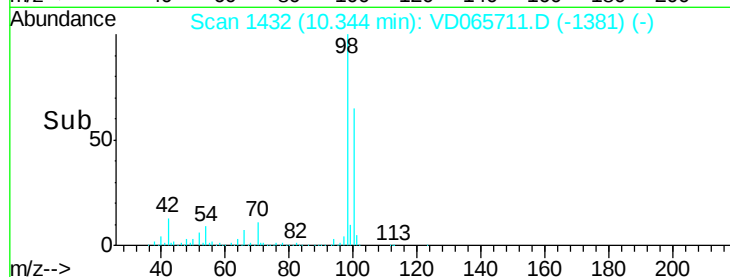
200000

100000

0

Time-->

10.20 10.30 10.40 10.50



#55

1,1,2-Trichloroethane

Concen: 2.07 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.03 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Tgt Ion: 97 Resp: 6688

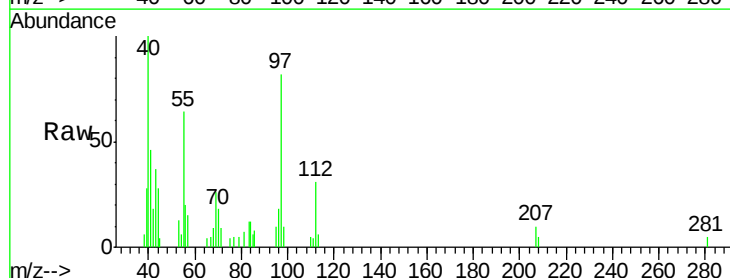
Ion Ratio Lower Upper

97 100

83 14.3 68.2 102.4#

85 16.8 43.6 65.4#

99 0.0 52.2 78.4#



Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

5000

4000

3000

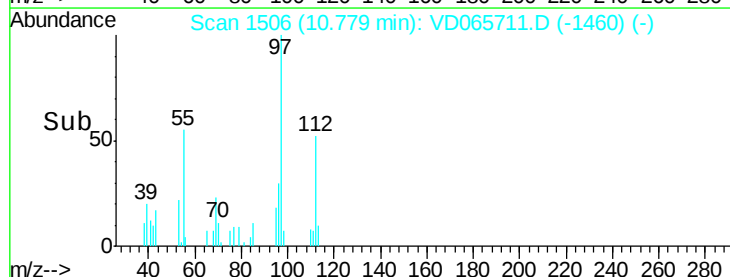
2000

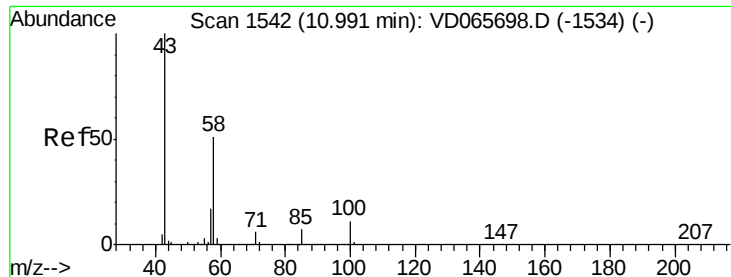
1000

0

Time-->

10.70 10.75 10.80 10.85





#59

2-Hexanone

Concen: 1.01 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampled :

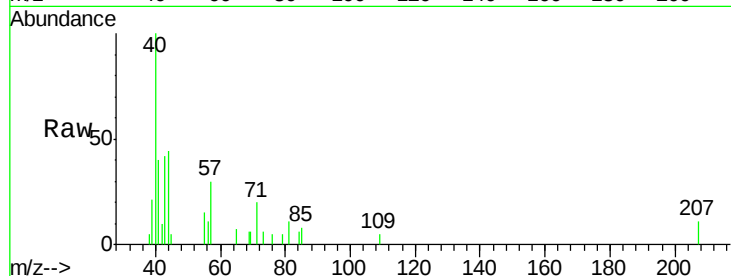
TP-15-(1-2)

Tgt Ion: 43 Resp: 2180

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

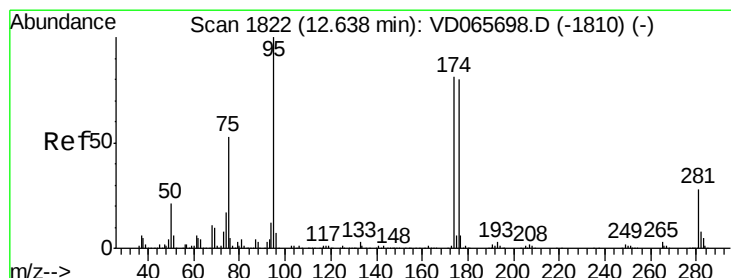
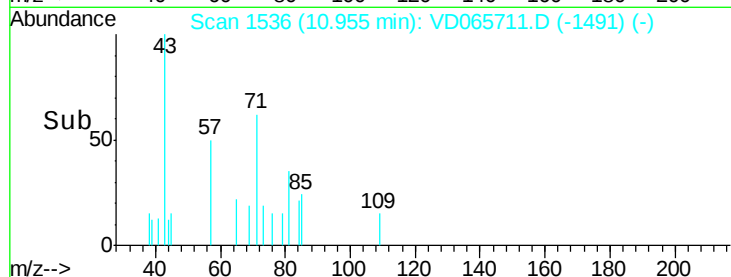
Ion 58.00 (57.70 to 58.70): VDC

10.96

10.95

10.90

Time-->



#62

4-Bromofluorobenzene

Concen: 45.31 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

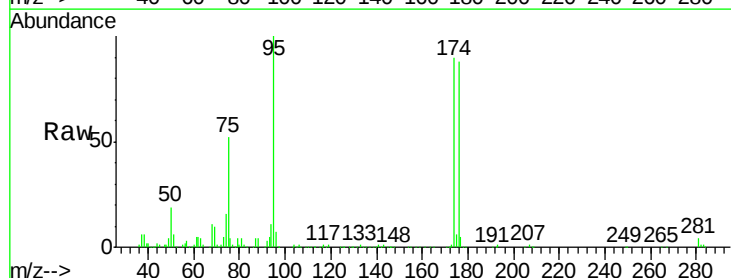
Tgt Ion: 95 Resp: 262670

Ion Ratio Lower Upper

95 100

174 88.4 0.0 162.6

176 85.6 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

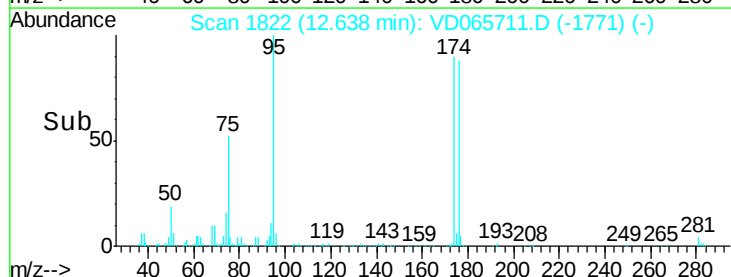
Ion 175.80 (175.50 to 176.50): V

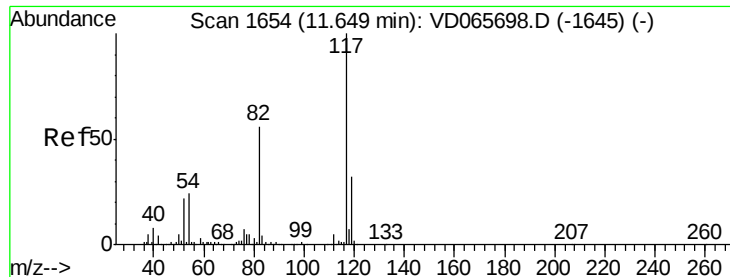
12.64

12.60

12.55

Time-->

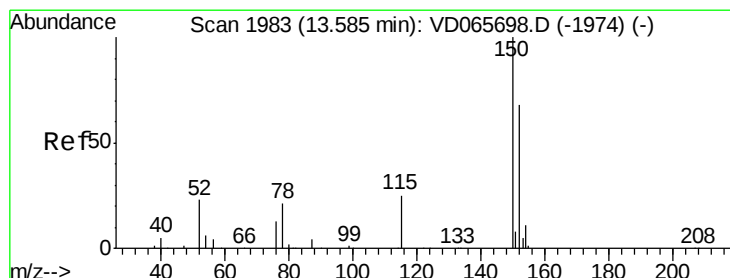
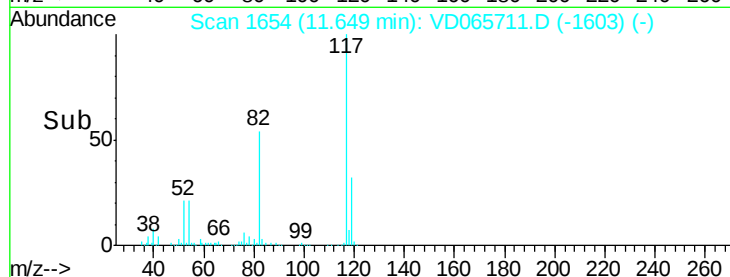
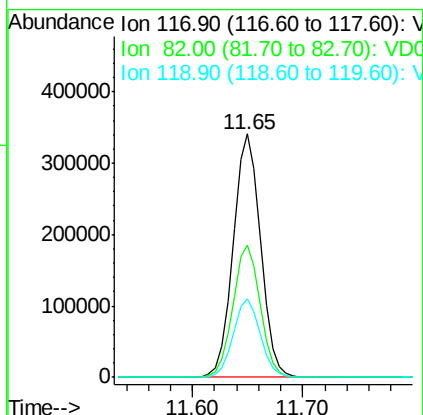
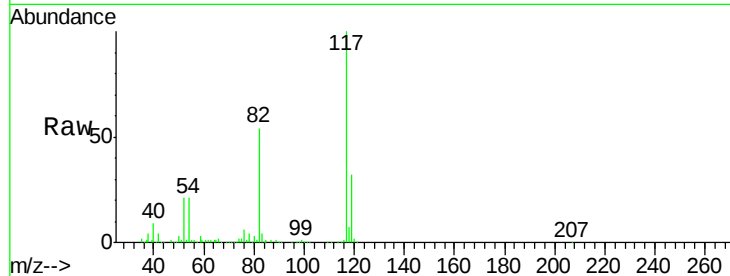




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

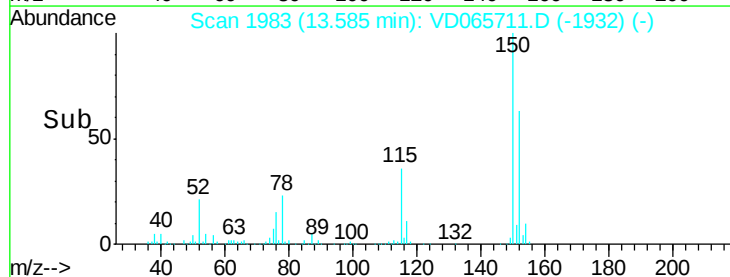
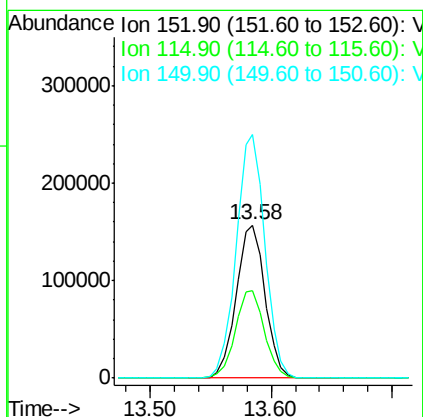
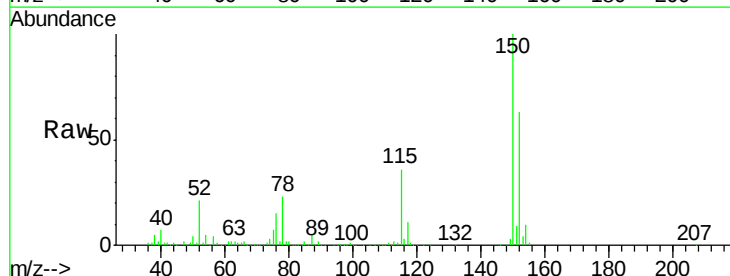
Instrument :
MSVOA_D
ClientSampleId :
TP-15-(1-2)

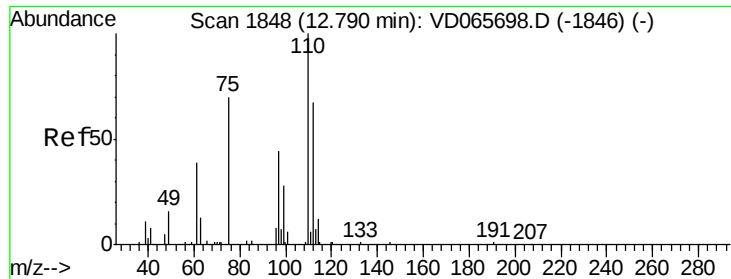
Tgt Ion:117 Resp: 593307
Ion Ratio Lower Upper
117 100
82 54.1 44.9 67.3
119 32.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065711.D
Acq: 07 May 2020 14:19

Tgt Ion:152 Resp: 261006
Ion Ratio Lower Upper
152 100
115 57.1 29.5 88.5
150 158.5 0.0 346.8

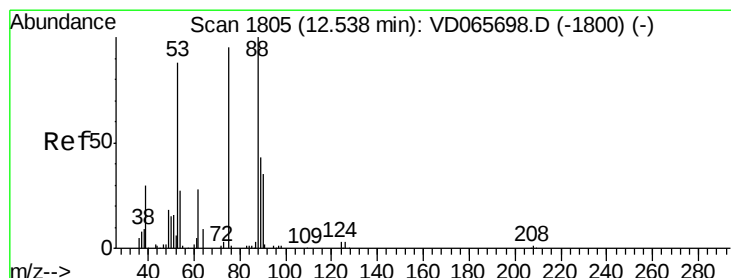
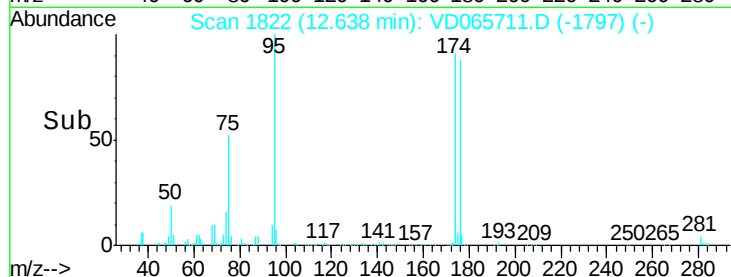
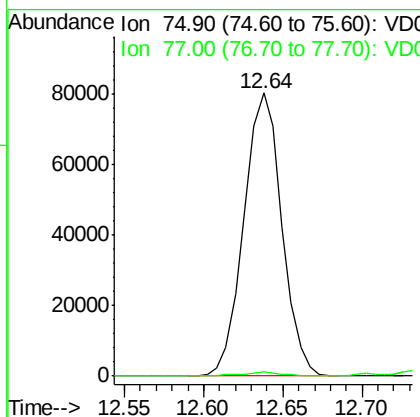
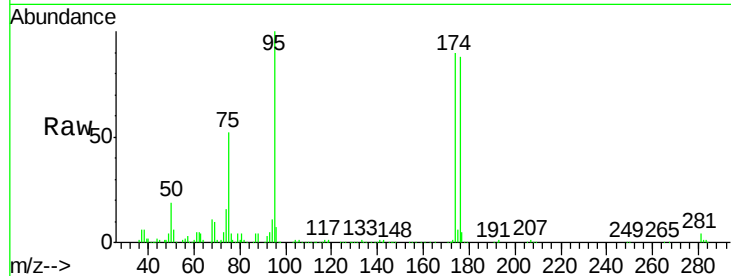




#76
 1,2,3-Trichloropropane
 Concen: 60.57 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD065711.D
 Acq: 07 May 2020 14:19

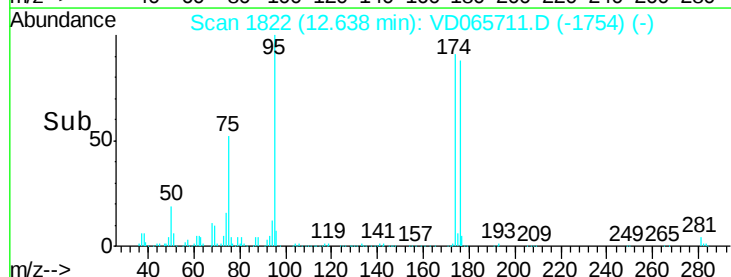
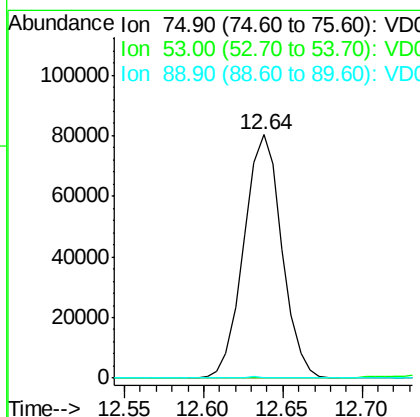
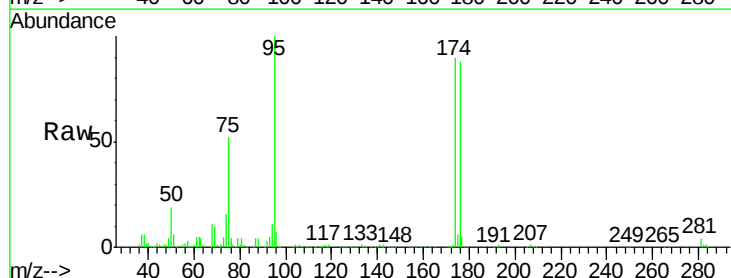
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-15-(1-2)

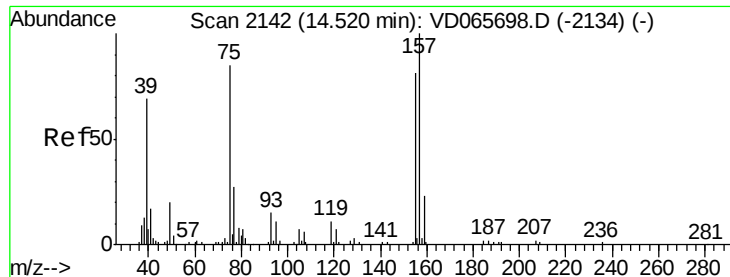
Tgt Ion: 75 Resp: 133523
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.22 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065711.D
 Acq: 07 May 2020 14:19

Tgt Ion: 75 Resp: 133523
 Ion Ratio Lower Upper
 75 100
 53 0.1 75.8 113.8#
 89 0.1 36.2 54.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.49 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-15-(1-2)

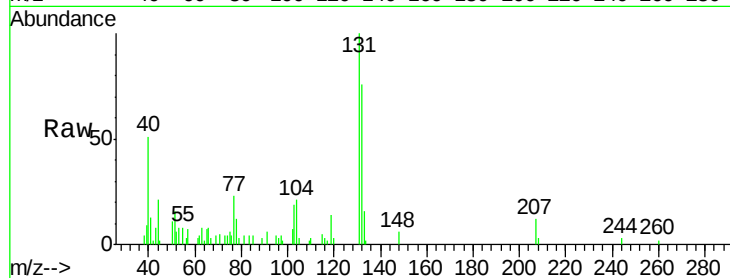
Tgt Ion: 75 Resp: 831

Ion Ratio Lower Upper

75 100

155 0.0 43.5 130.5#

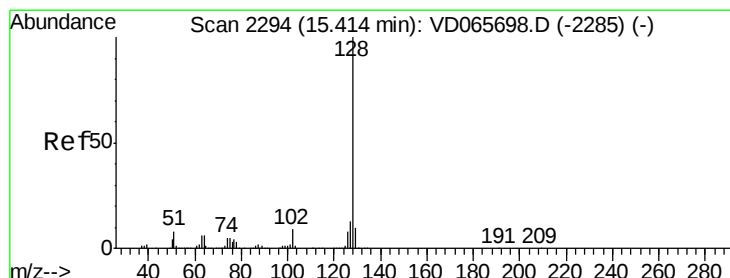
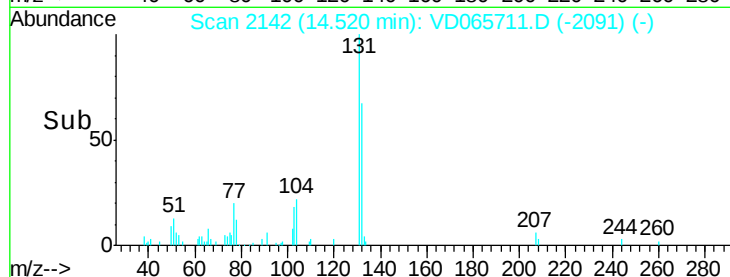
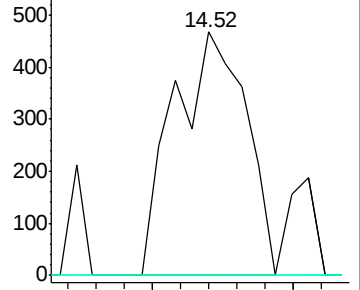
157 0.0 54.5 163.6#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 137.48 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065711.D

Acq: 07 May 2020 14:19

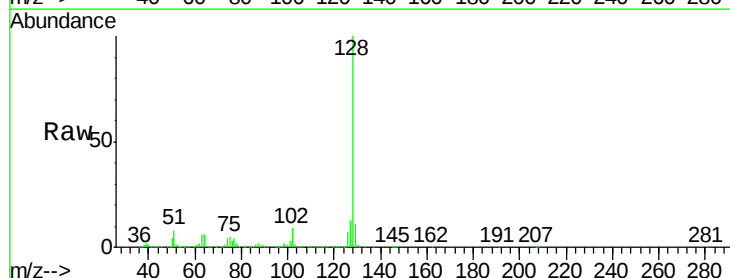
Tgt Ion: 128 Resp: 1333577

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 10.9 9.0 13.4



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

