

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022620\
 Data File : VD065334.D
 Acq On : 26 Feb 2020 18:10
 Operator : VA/SY
 Sample : L1700-02
 Misc : 7.81G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12016

Quant Time: Feb 27 08:03:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	21281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	31687	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	37553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	21418	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	16885	88.20	ug/l	0.00
Spiked Amount			Recovery	=	176.40%	
35) Dibromofluoromethane	7.92	113	13407	69.39	ug/l	0.00
Spiked Amount			Recovery	=	138.78%	
50) Toluene-d8	10.34	98	43138	58.40	ug/l	0.00
Spiked Amount			Recovery	=	116.80%	
62) 4-Bromofluorobenzene	12.64	95	17676	75.54	ug/l	0.00
Spiked Amount			Recovery	=	151.08%	

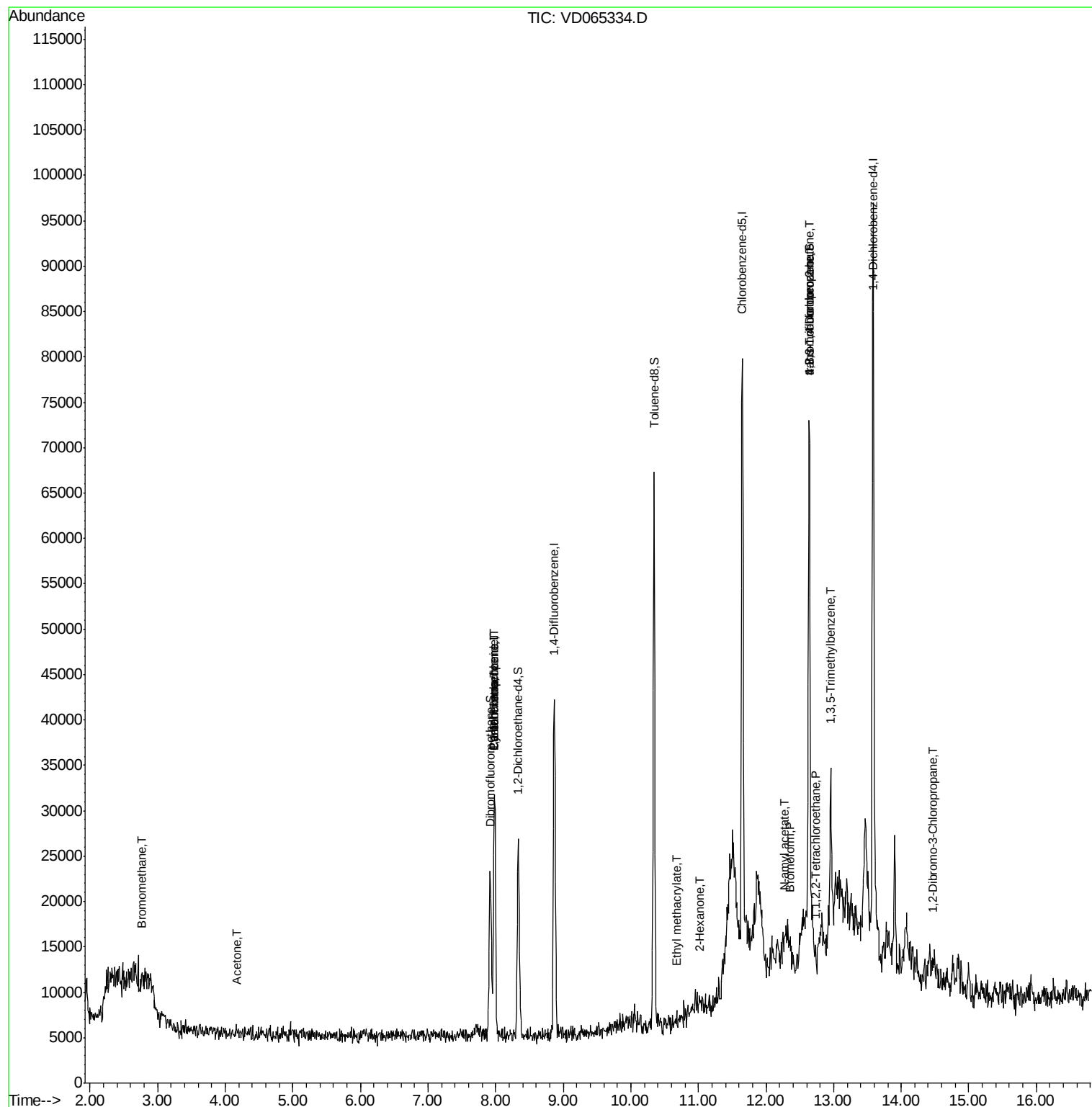
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	249	1.783	ug/l #	52
16) Acetone	4.17	43	240	5.128	ug/l #	42
20) Methylene Chloride	4.97	84	243	Below Cal	#	27
31) Cyclohexane	7.98	56	465	1.235	ug/l #	86
36) 1,1-Dichloropropene	7.98	75	1711	5.549	ug/l #	41
38) Carbon Tetrachloride	7.98	117	1764	5.620	ug/l #	12
56) Ethyl methacrylate	10.68	69	408	2.256	ug/l #	57
59) 2-Hexanone	11.02	43	689	8.085	ug/l #	26
71) Bromoform	12.35	173	332	2.128	ug/l #	28
74) N-amyl acetate	12.28	43	397	1.260	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.74	83	414	1.618	ug/l #	29
76) 1,2,3-Trichloropropane	12.64	75	8600	47.193	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	1635	1.400	ug/l	75
81) trans-1,4-Dichloro-2-buten	12.64	75	8600	101.898	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.47	75	65	1.648	ug/l #	1

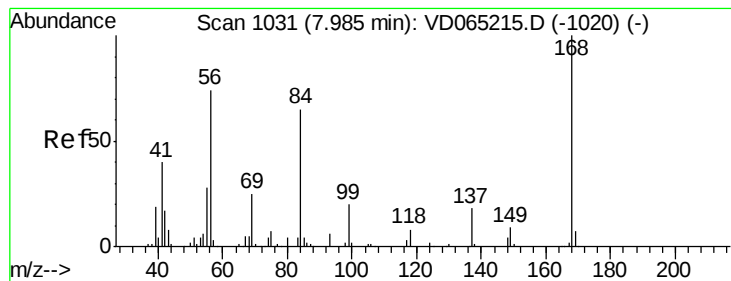
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

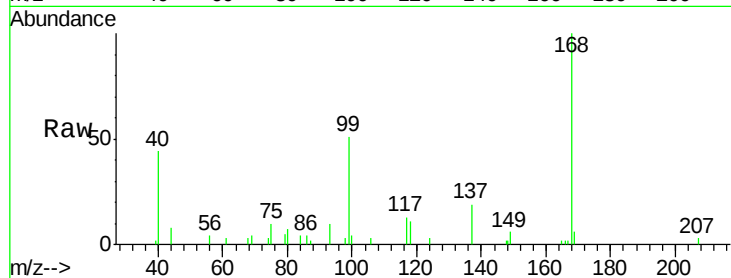
72-12016

Tot Ion:168 Resp: 21281

Ion Ratio Lower Upper

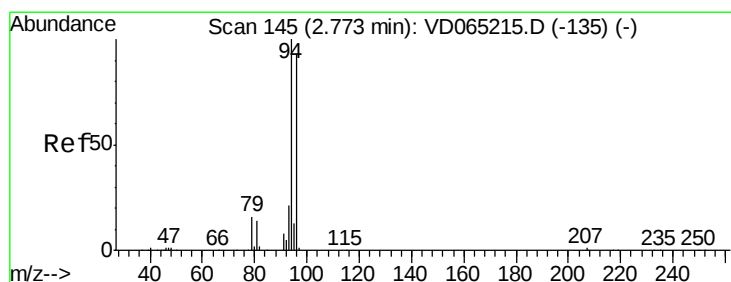
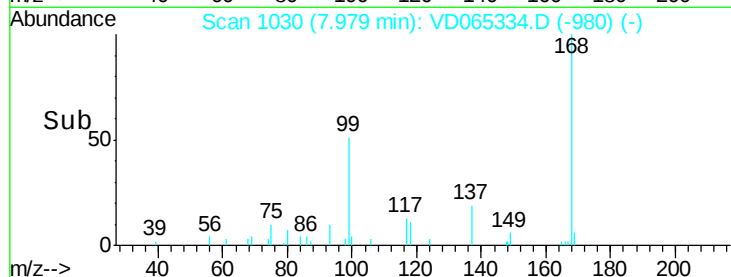
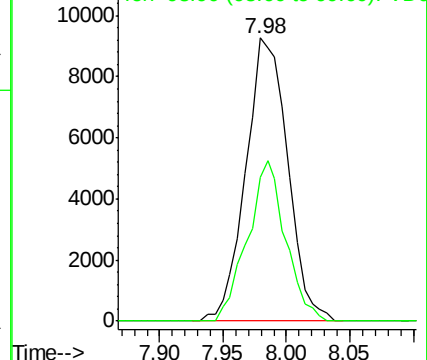
168 100

99 51.0 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 1.783 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD065334.D

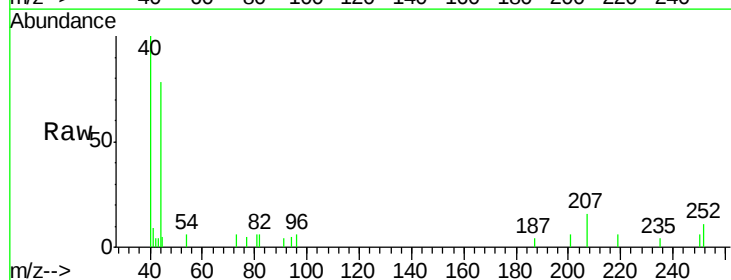
Acq: 26 Feb 2020 18:10

Tgt Ion: 94 Resp: 249

Ion Ratio Lower Upper

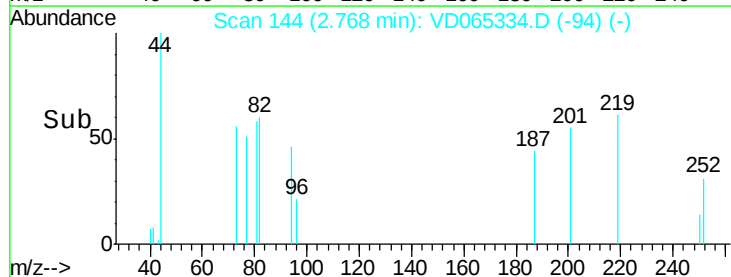
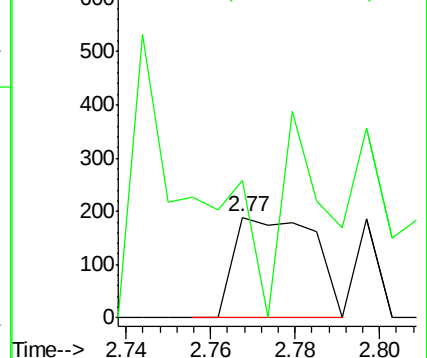
94 100

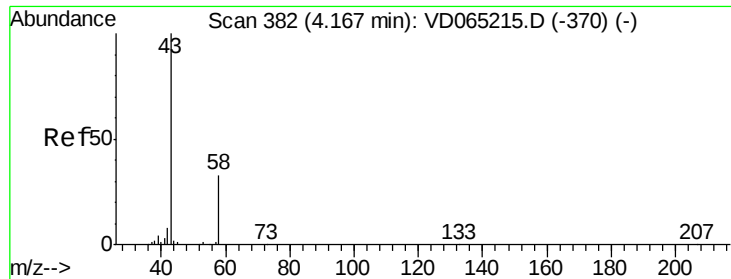
96 46.6 74.2 111.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 5.128 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

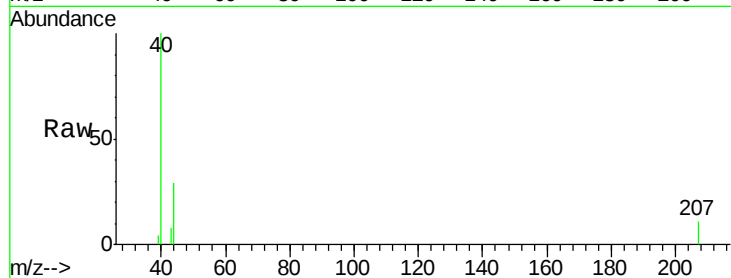
72-12016

Tot Ion: 43 Resp: 240

Ion Ratio Lower Upper

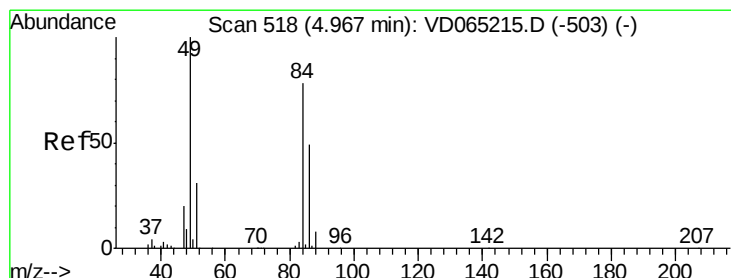
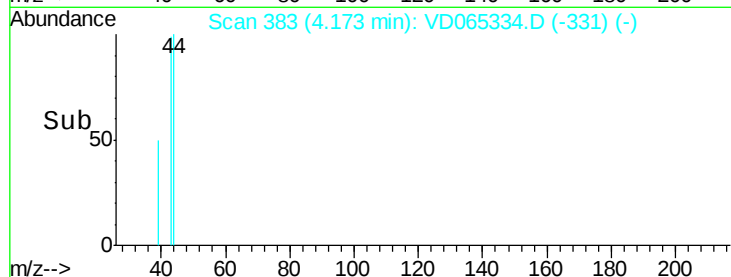
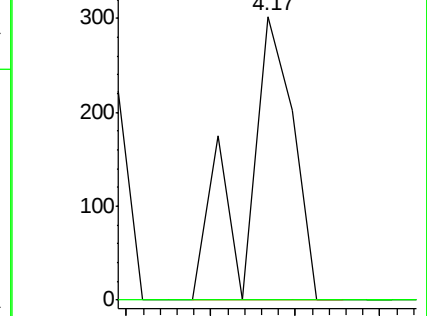
43 100

58 0.0 26.2 39.2#



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: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Tgt Ion: 84 Resp: 243

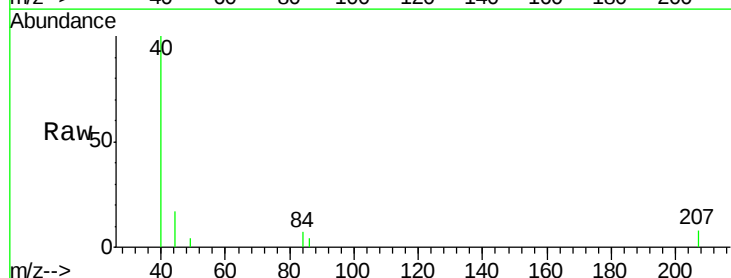
Ion Ratio Lower Upper

84 100

49 0.0 103.1 154.7#

51 0.0 31.7 47.5#

86 62.2 50.9 76.3

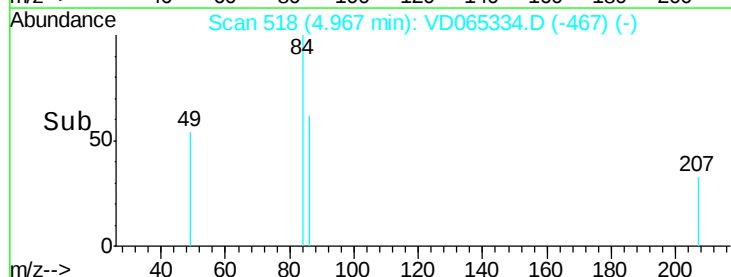
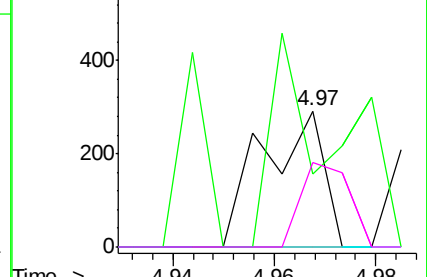


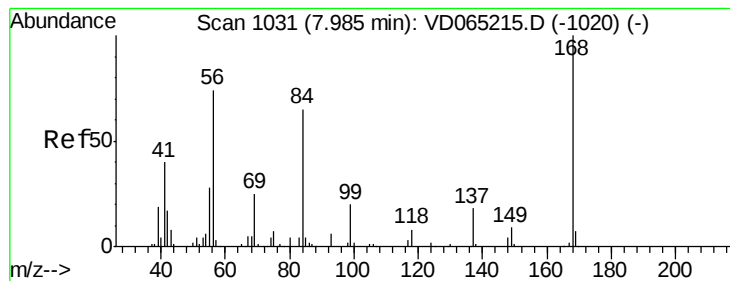
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#31

Cyclohexane

Concen: 1.235 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

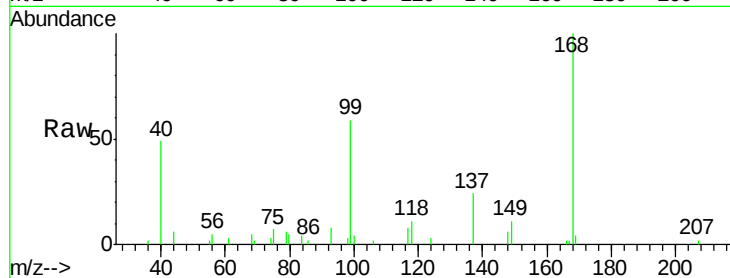
Tot Ion: 56 Resp: 465

Ion Ratio Lower Upper

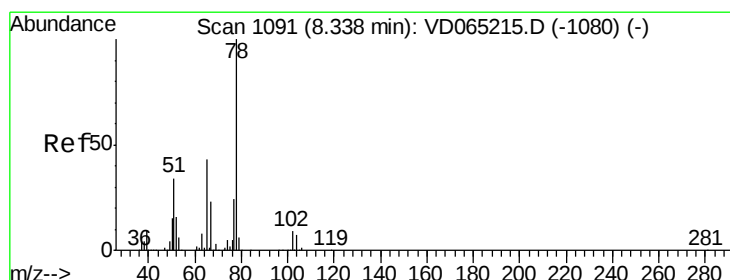
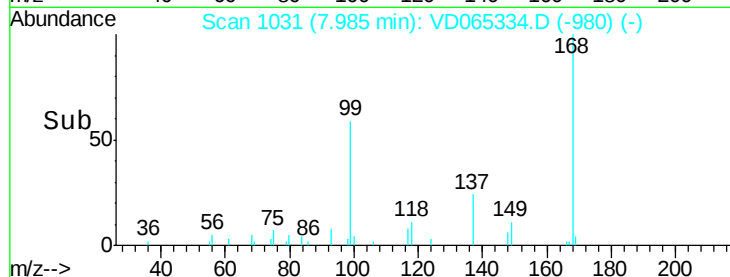
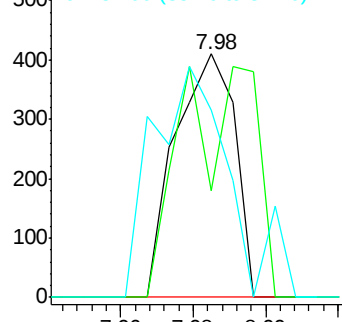
56 100

69 43.7 27.4 41.0#

84 76.8 71.1 106.7



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



#33

1,2-Dichloroethane-d4

Concen: 88.197 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065334.D

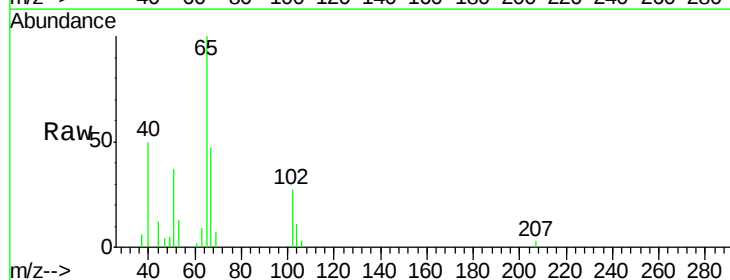
Acq: 26 Feb 2020 18:10

Tgt Ion: 65 Resp: 16885

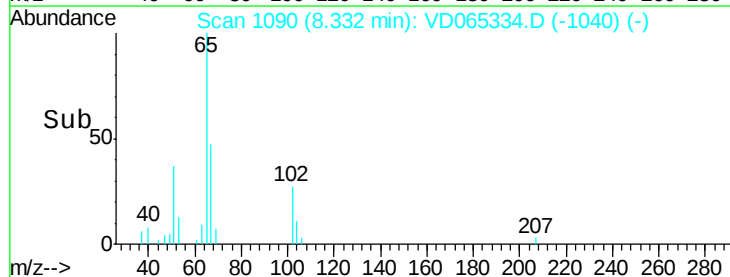
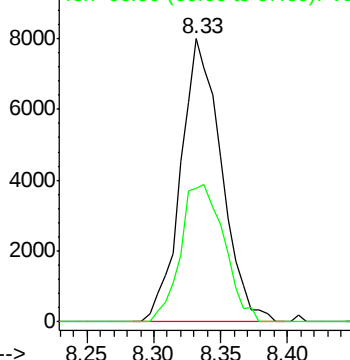
Ion Ratio Lower Upper

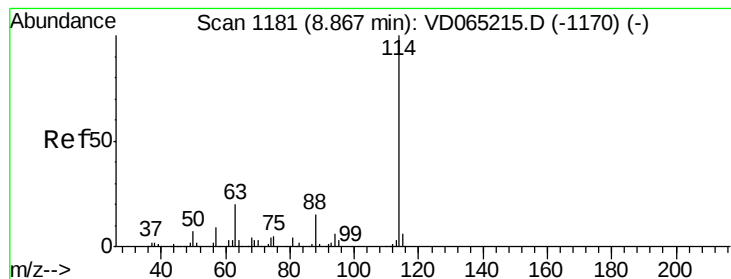
65 100

67 51.9 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

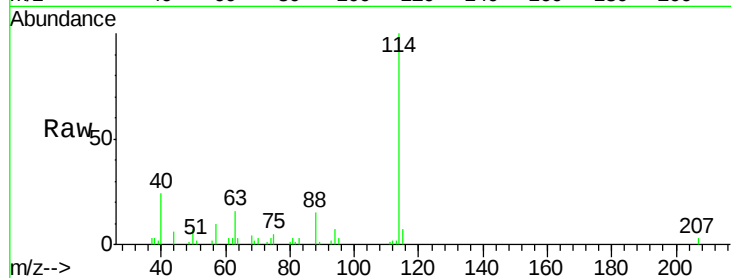
Tot Ion:114 Resp: 31687

Ion Ratio Lower Upper

114 100

63 15.5 0.0 39.4

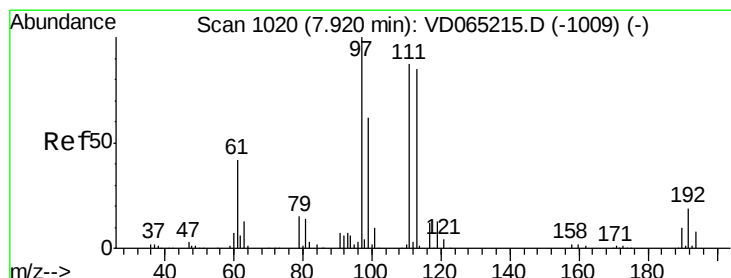
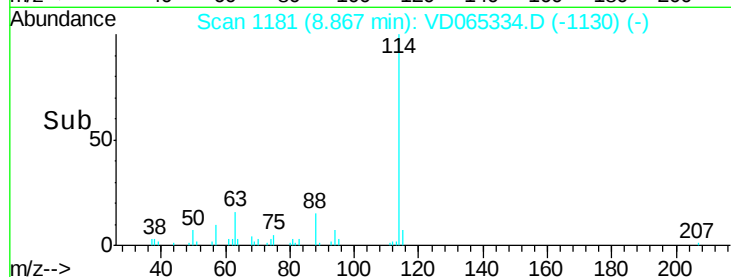
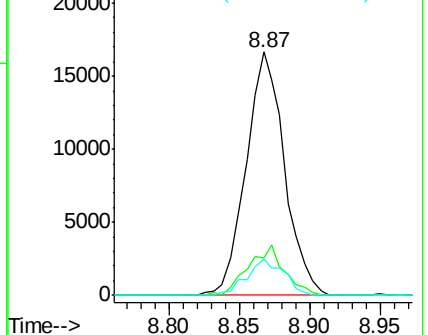
88 14.7 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 69.391 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

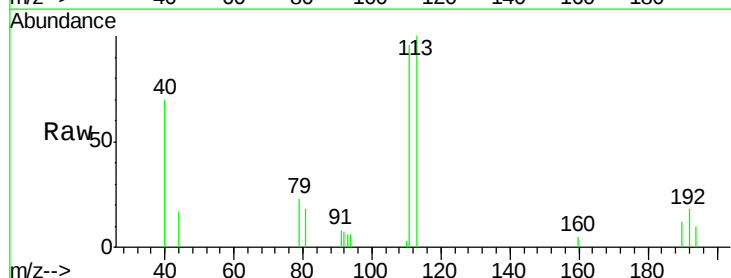
Tgt Ion:113 Resp: 13407

Ion Ratio Lower Upper

113 100

111 106.3 82.9 124.3

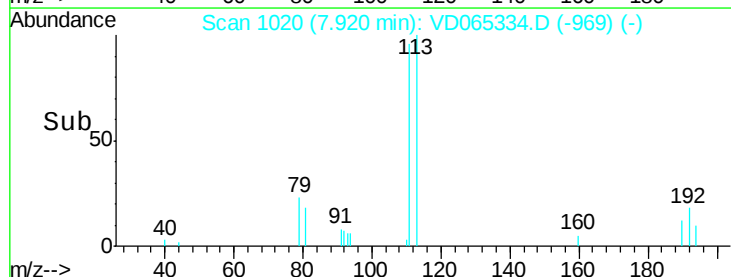
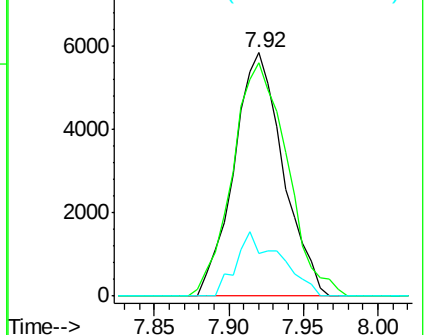
192 23.7 17.3 25.9

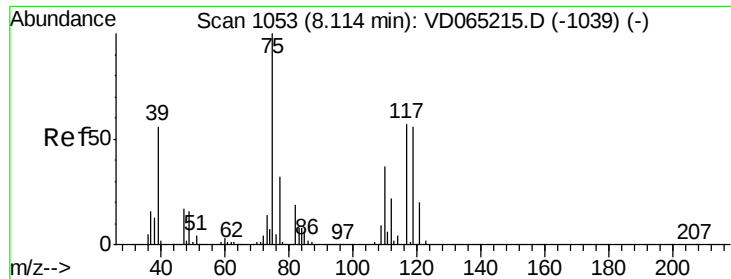


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.549 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

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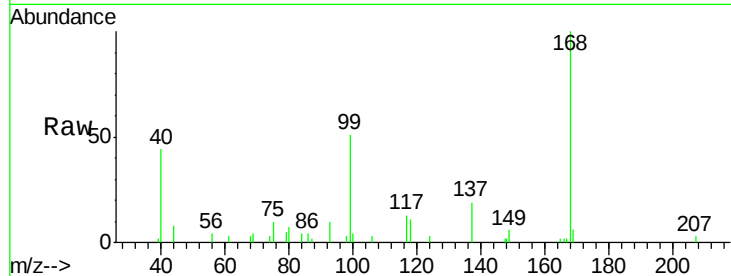
Tot Ion: 75 Resp: 1711

Ion Ratio Lower Upper

75 100

110 0.0 17.9 53.7#

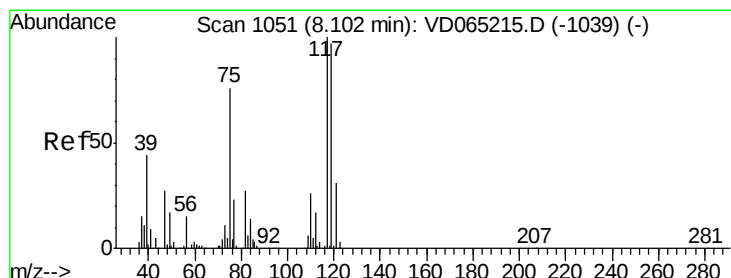
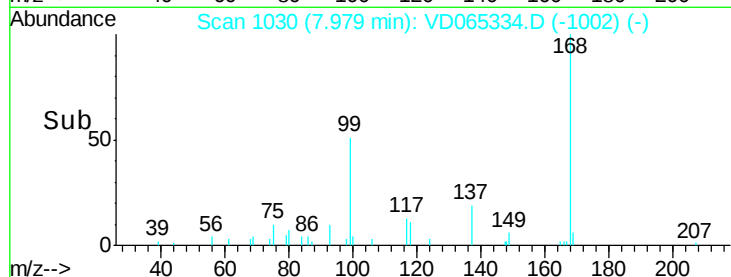
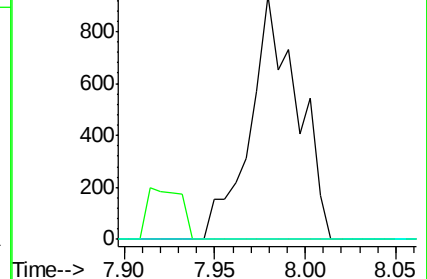
77 0.0 25.1 37.7#



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: 5.620 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

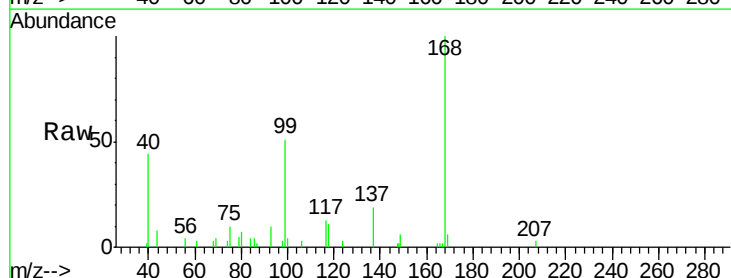
Tgt Ion: 117 Resp: 1764

Ion Ratio Lower Upper

117 100

119 0.0 77.6 116.4#

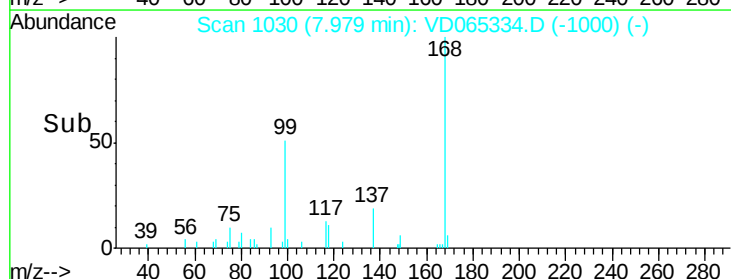
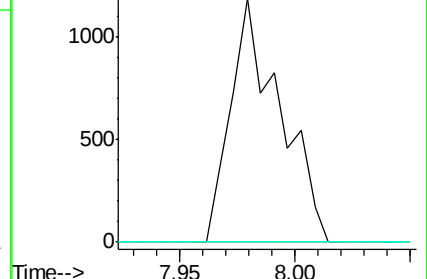
121 0.0 24.8 37.2#



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

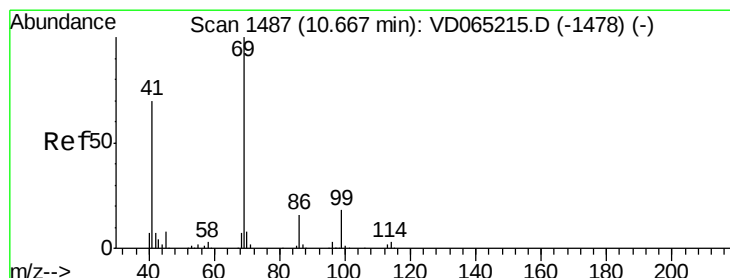
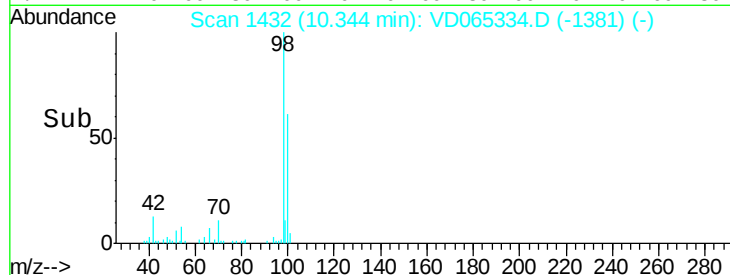
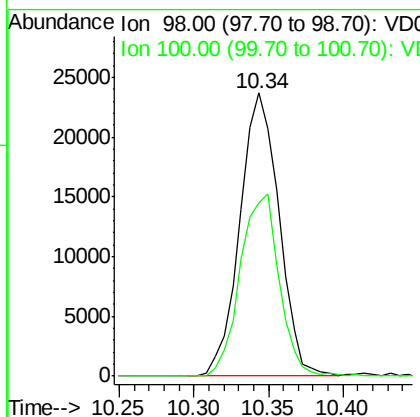
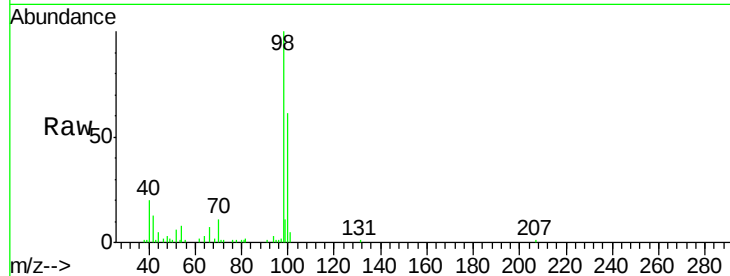




#50
Toluene-d8
Concen: 58.404 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

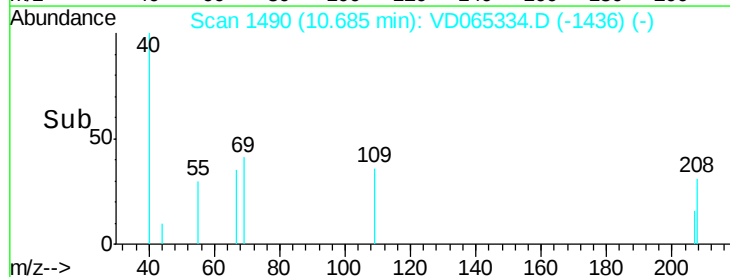
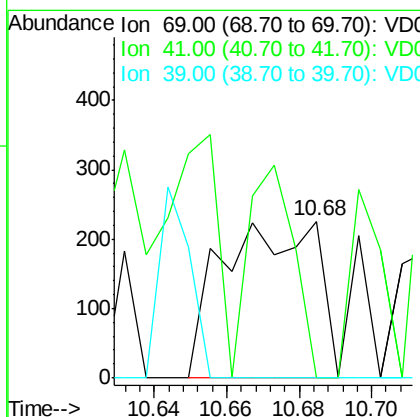
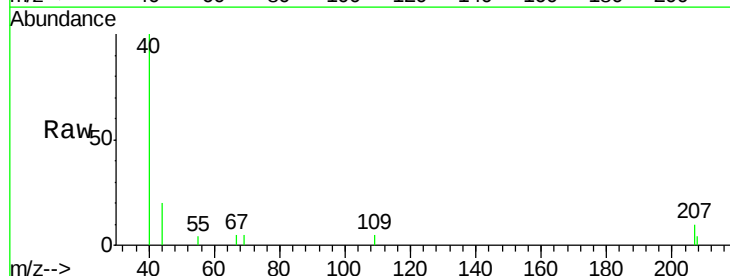
Instrument :
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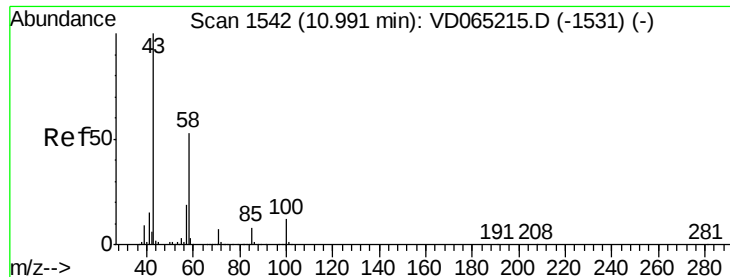
Tot Ion: 98 Resp: 43138
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0



#56
Ethyl methacrylate
Concen: 2.256 ug/l
RT: 10.68 min Scan# 1490
Delta R.T. 0.02 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Tgt Ion: 69 Resp: 408
Ion Ratio Lower Upper
69 100
41 39.5 54.6 81.8#
39 0.0 26.5 39.7#

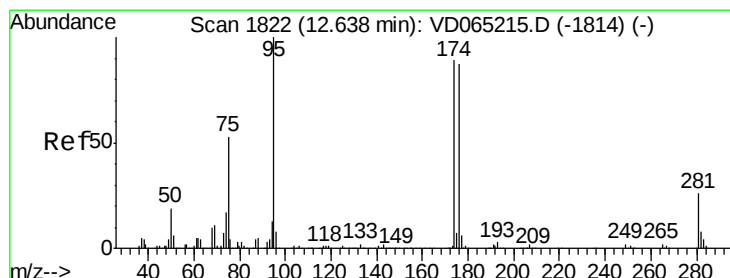
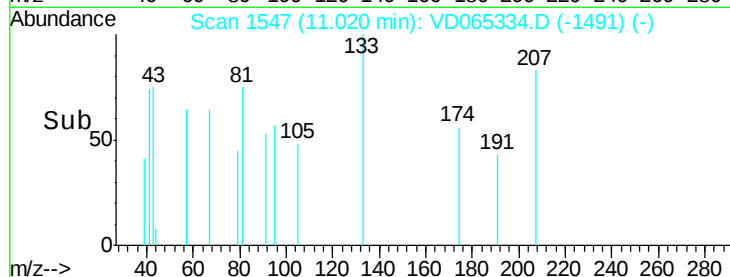
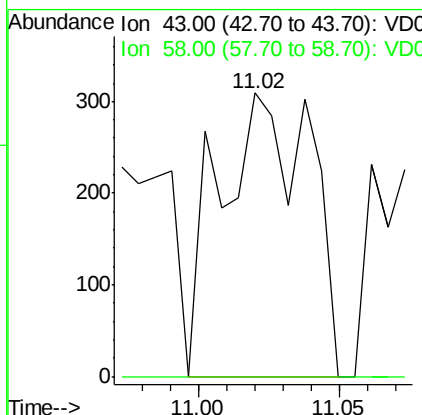
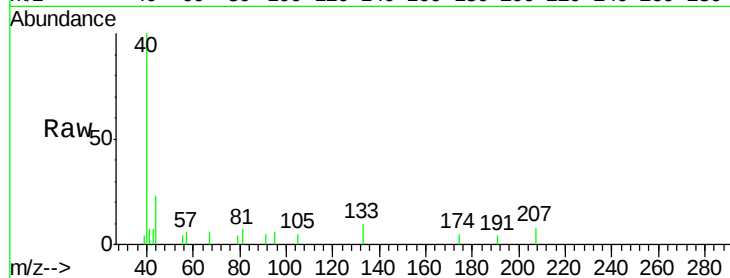




#59
2-Hexanone
Concen: 8.085 ug/l
RT: 11.02 min Scan# 1547
Delta R.T. 0.03 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

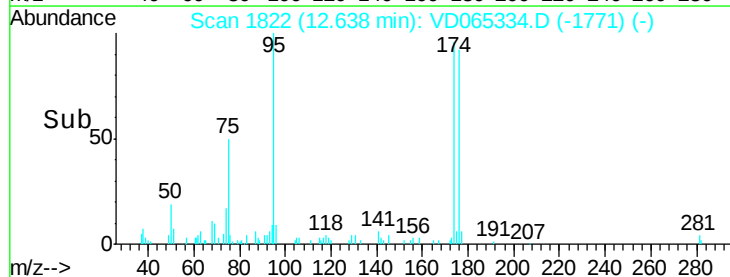
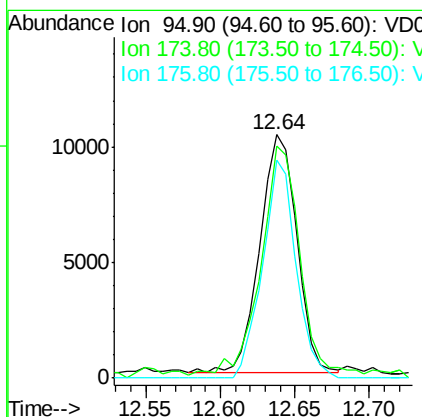
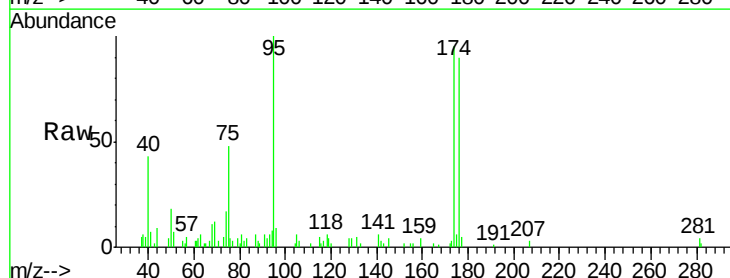
Instrument :
MSVOA_D
ClientSampled :
72-12016

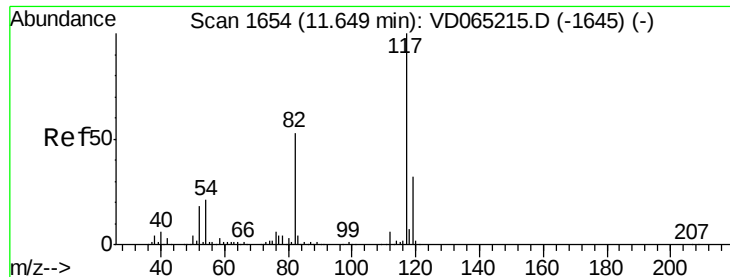
Tot Ion: 43 Resp: 689
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 75.542 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Tgt Ion: 95 Resp: 17676
Ion Ratio Lower Upper
95 100
174 102.0 0.0 178.0
176 82.7 0.0 174.4

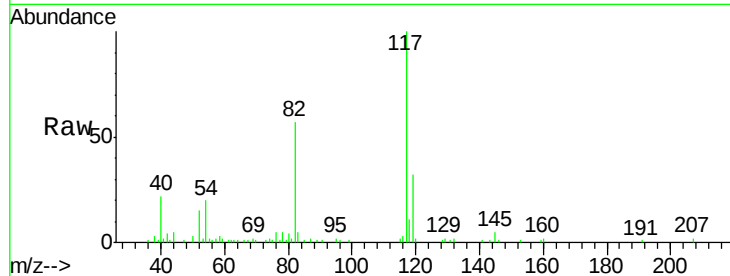




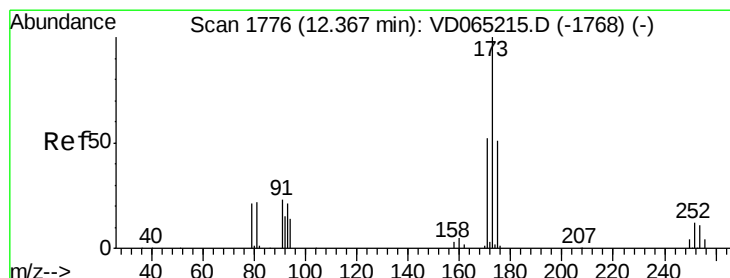
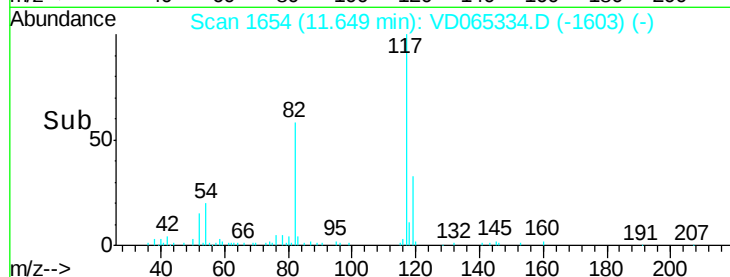
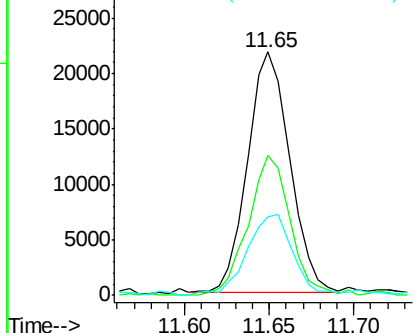
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Instrument :
MSVOA_D
ClientSampleId :
72-12016

Tot Ion:117 Resp: 37553
Ion Ratio Lower Upper
117 100
82 58.2 42.7 64.1
119 32.9 25.5 38.3

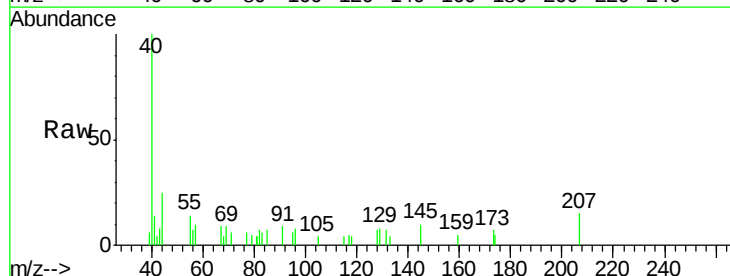


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

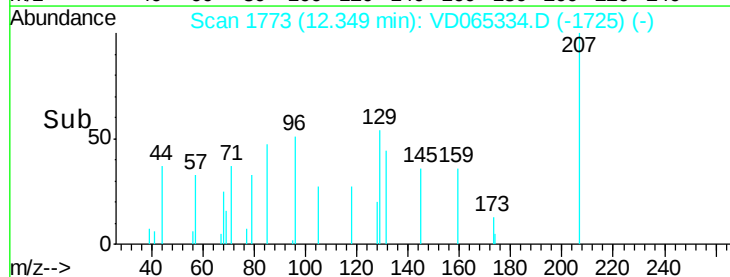
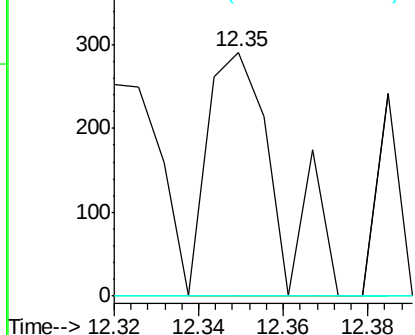


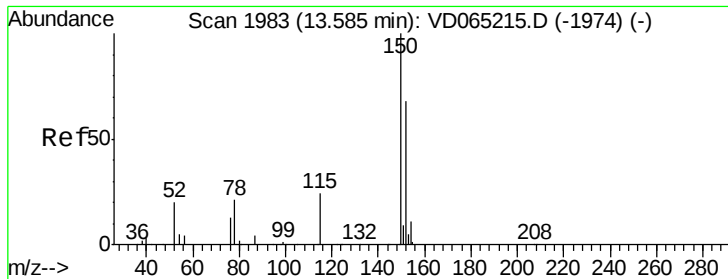
#71
Bromoform
Concen: 2.128 ug/l
RT: 12.35 min Scan# 1773
Delta R.T. -0.02 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Tgt Ion:173 Resp: 332
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.4#
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



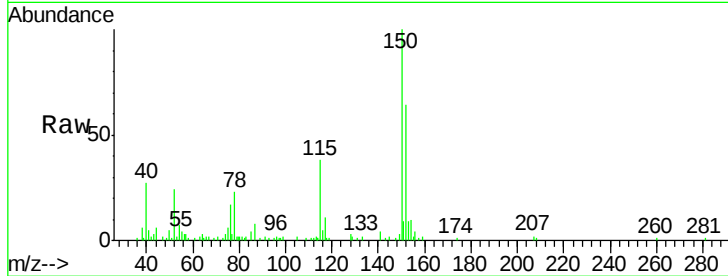


#72

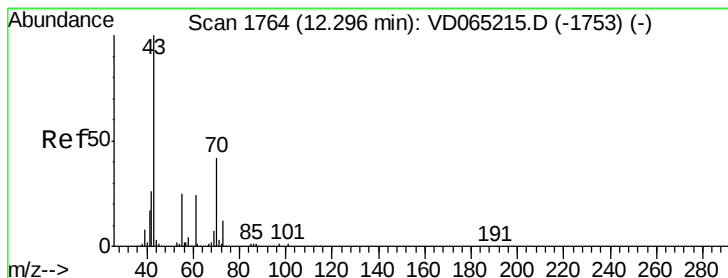
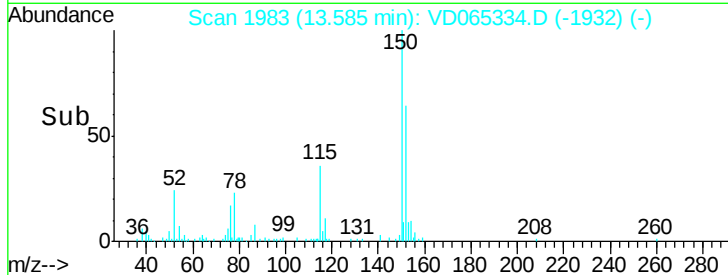
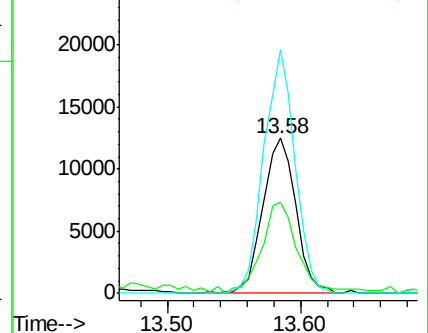
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Instrument :
MSVOA_D
ClientSampleId :
72-12016

Tot Ion:152 Resp: 21418
Ion Ratio Lower Upper
152 100
115 64.2 27.6 82.8
150 148.2 0.0 347.4



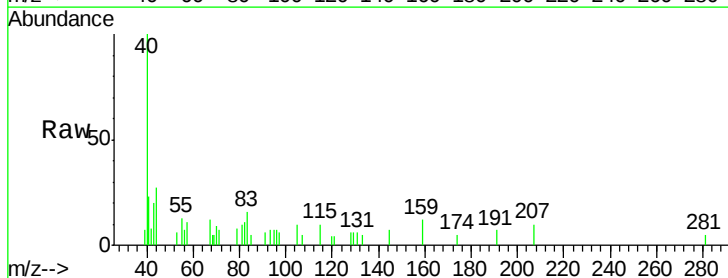
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



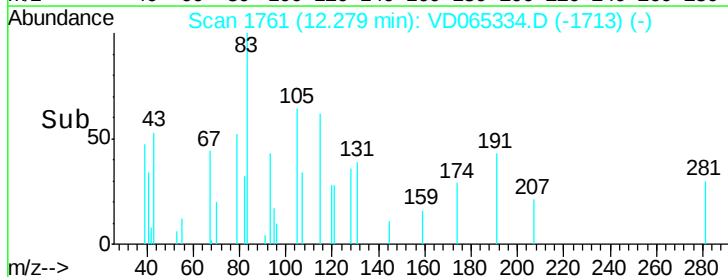
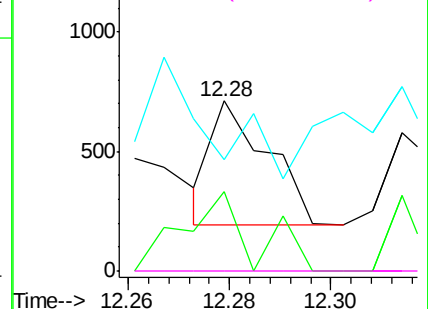
#74

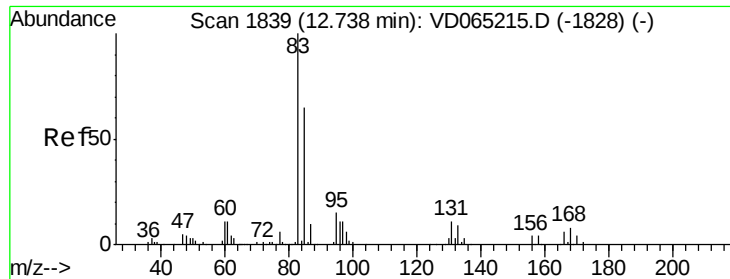
N-ethyl acetate
Concen: 1.260 ug/l
RT: 12.28 min Scan# 1761
Delta R.T. -0.02 min
Lab File: VD065334.D
Acq: 26 Feb 2020 18:10

Tgt Ion: 43 Resp: 397
Ion Ratio Lower Upper
43 100
70 80.6 33.7 50.5#
55 0.0 20.7 31.1#
61 0.0 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 1.618 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.01 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

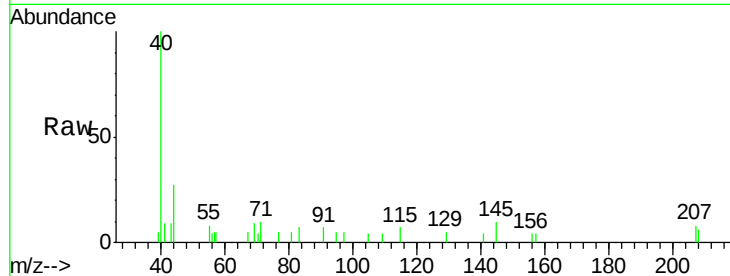
Tot Ion: 83 Resp: 414

Ion Ratio Lower Upper

83 100

131 14.0 5.4 16.2

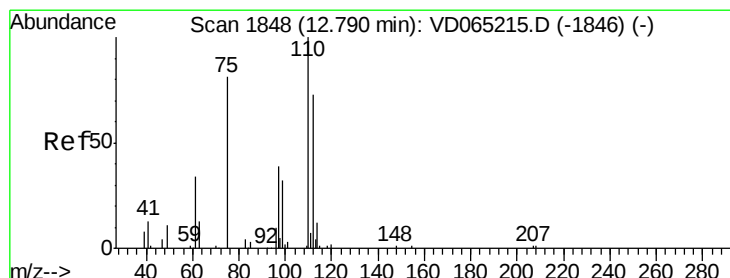
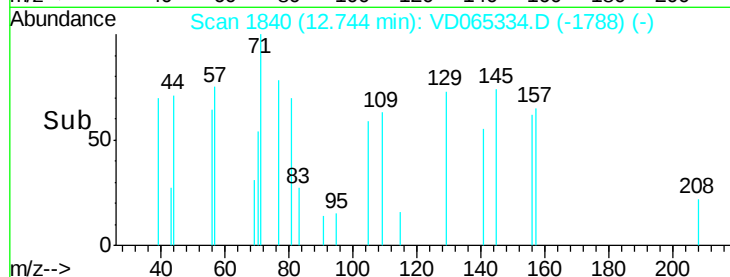
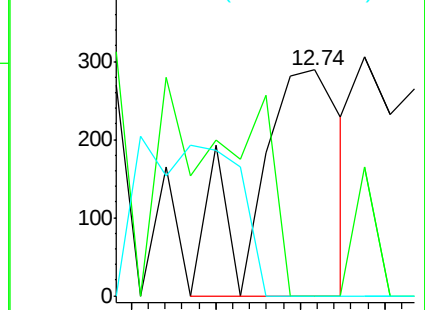
85 0.0 31.6 94.8#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 47.193 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065334.D

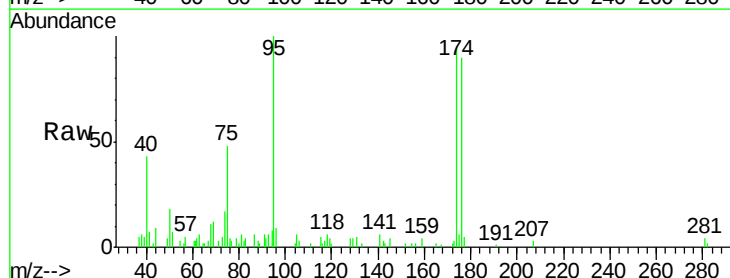
Acq: 26 Feb 2020 18:10

Tgt Ion: 75 Resp: 8600

Ion Ratio Lower Upper

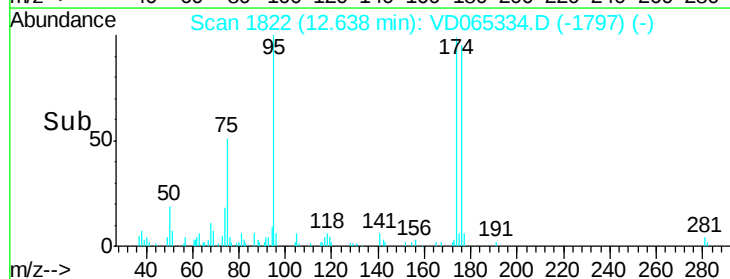
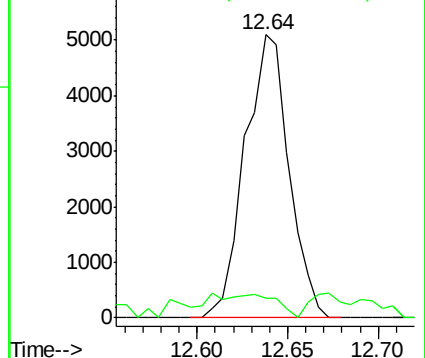
75 100

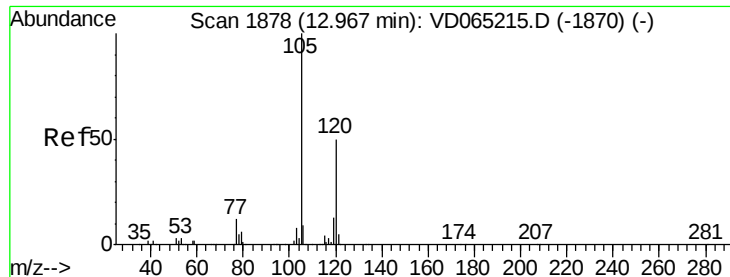
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.400 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.01 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

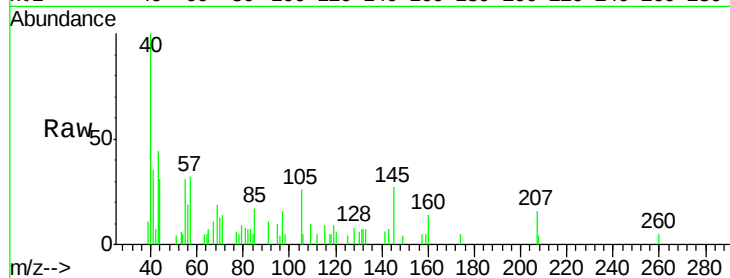
72-12016

Tot Ion:105 Resp: 1635

Ion Ratio Lower Upper

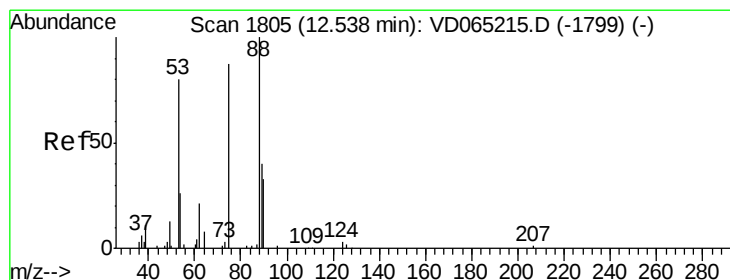
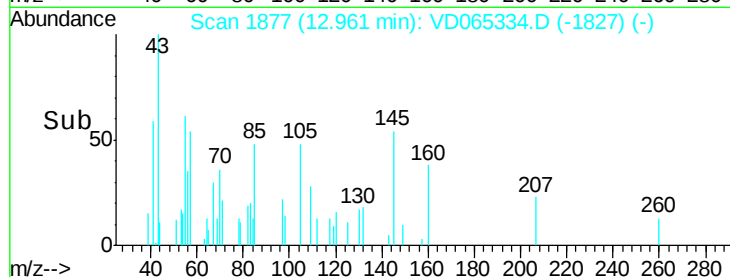
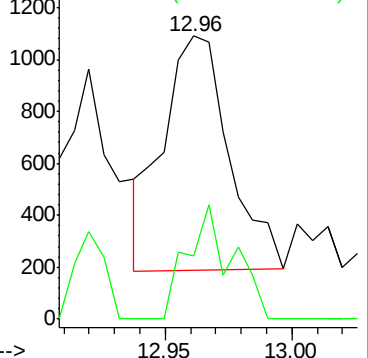
105 100

120 33.8 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 101.898 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

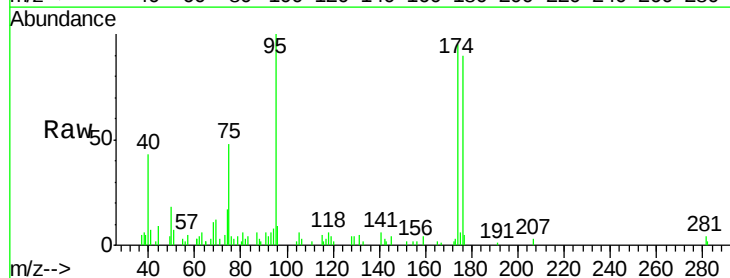
Tgt Ion: 75 Resp: 8600

Ion Ratio Lower Upper

75 100

53 2.7 77.6 116.4#

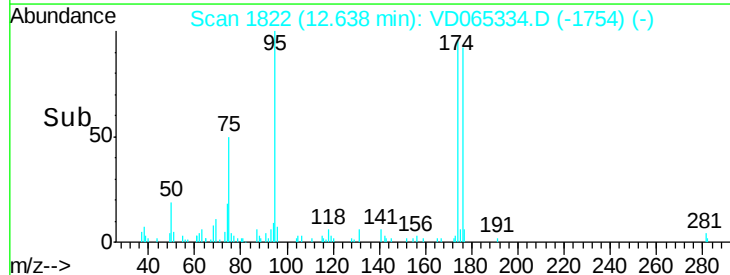
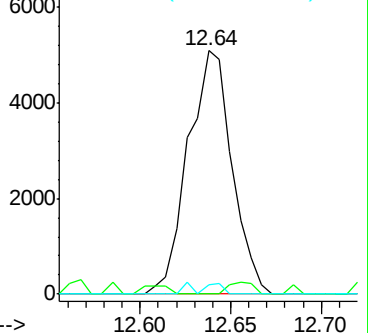
89 1.7 37.2 55.8#

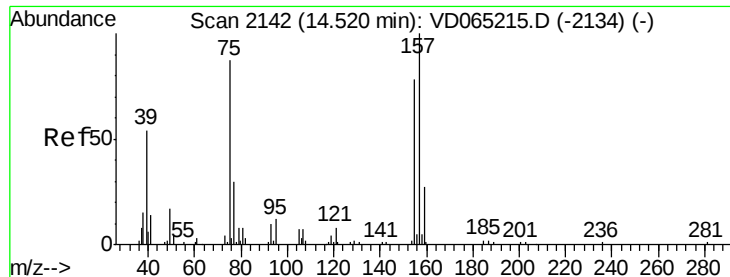


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.648 ug/l

RT: 14.47 min Scan# 2133

Delta R.T. -0.05 min

Lab File: VD065334.D

Acq: 26 Feb 2020 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

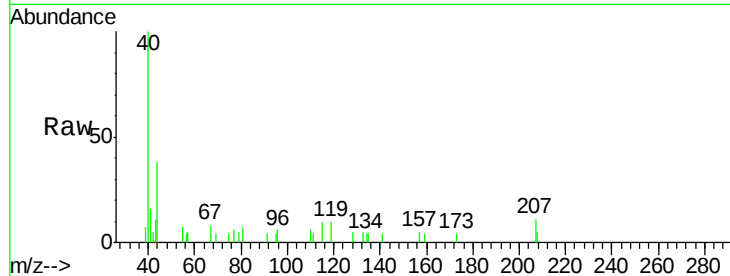
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.9#

157 536.9 56.7 170.1#



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

