

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022620\
 Data File : VD065333.D
 Acq On : 26 Feb 2020 17:41
 Operator : VA/SY
 Sample : L1363-06
 Misc : 8.68G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

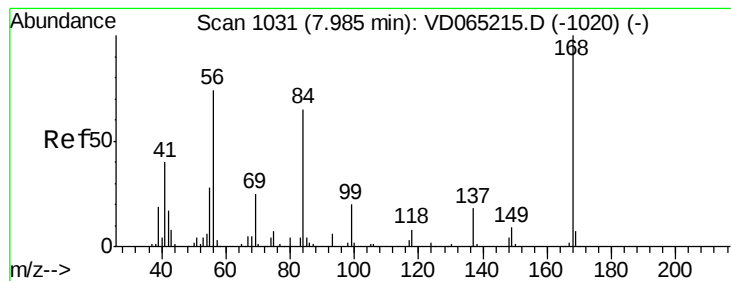
Quant Time: Feb 27 08:03:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	557038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	940813	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	881816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	406874	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	270638	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
35) Dibromofluoromethane	7.92	113	296771	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
50) Toluene-d8	10.34	98	1139857	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	12.64	95	375508	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.66	56	77	Below Cal	#	14
16) Acetone	4.17	43	6770	5.527	ug/l	97
20) Methylene Chloride	4.96	84	11850	Below Cal		87
31) Cyclohexane	7.98	56	11119	1.128	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	40456	4.419	ug/l #	49
38) Carbon Tetrachloride	7.98	117	52448	5.628	ug/l #	16
51) 4-Methyl-2-Pentanone	10.34	43	5382	1.523	ug/l #	1
59) 2-Hexanone	10.96	43	4932	1.949	ug/l #	26
69) o-Xylene	12.18	106	113384	10.793	ug/l	98
74) N-amyl acetate	12.28	43	50042	8.360	ug/l #	70
76) 1,2,3-Trichloropropane	12.64	75	185436	53.566	ug/l #	100
79) 2-Chlorotoluene	12.93	91	41802	2.305	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.97	105	569425	25.666	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	185436	115.659	ug/l #	11
82) 4-Chlorotoluene	12.97	91	59203	3.075	ug/l #	45
84) 1,2,4-Trimethylbenzene	13.13	105	578578	26.054	ug/l	76
85) sec-Butylbenzene	13.61	105	994555	37.119	ug/l #	56
86) p-Isopropyltoluene	13.53	119	134192	5.477	ug/l	98
89) n-Butylbenzene	13.82	91	130245	5.768	ug/l #	1
90) Hexachloroethane	14.13	117	52156	10.483	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.53	75	1733	2.313	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

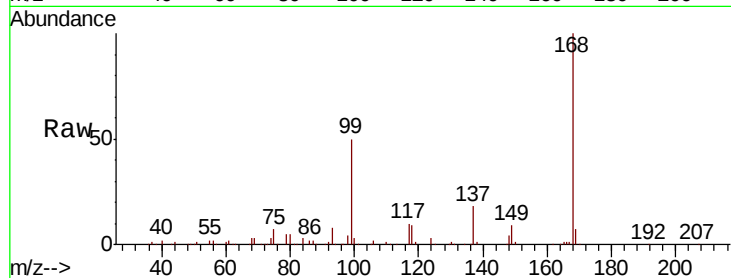
Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:168 Resp: 557038

Ion Ratio Lower Upper

168 100

99 50.3 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

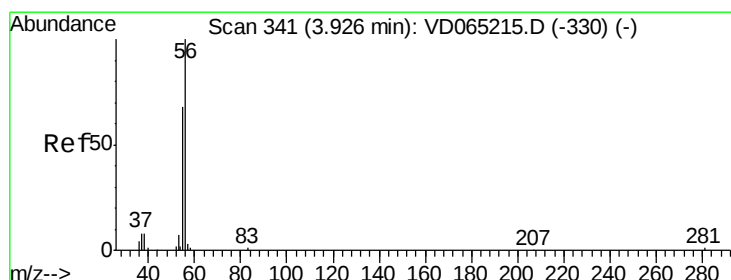
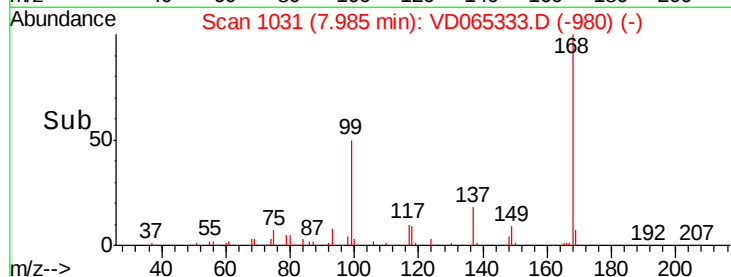
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.66 min Scan# 296

Delta R.T. -0.26 min

Lab File: VD065333.D

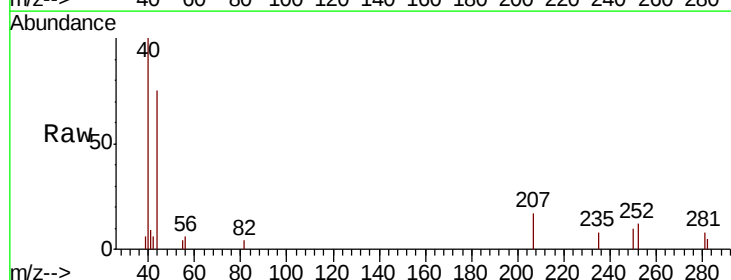
Acq: 26 Feb 2020 17:41

Tgt Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.66

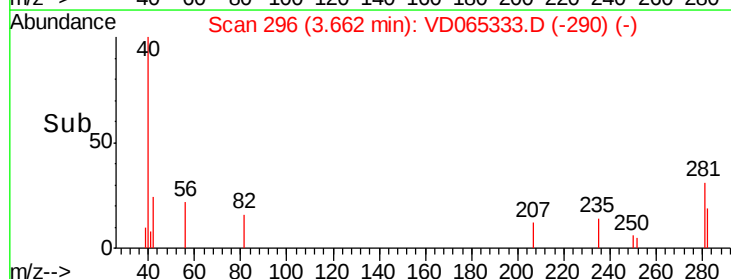
300

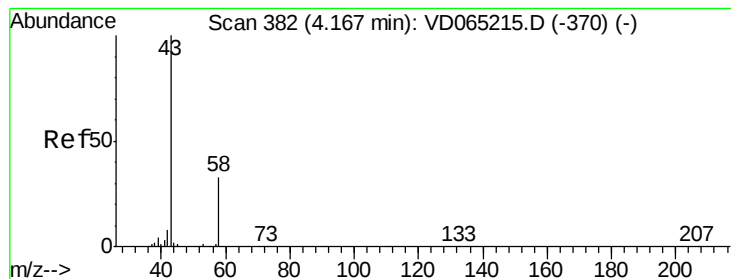
200

100

0

Time-->





#16

Acetone

Concen: 5.527 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

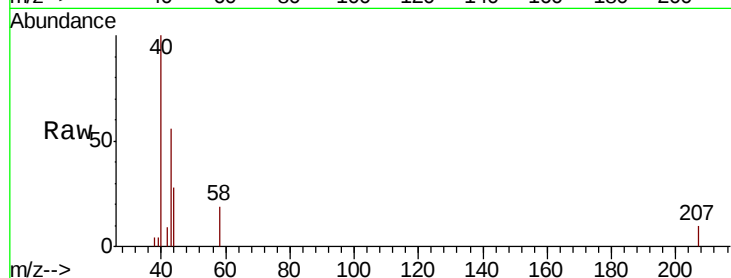
ClientSampled :

Tot Ion: 43 Resp: 6770

Ion Ratio Lower Upper

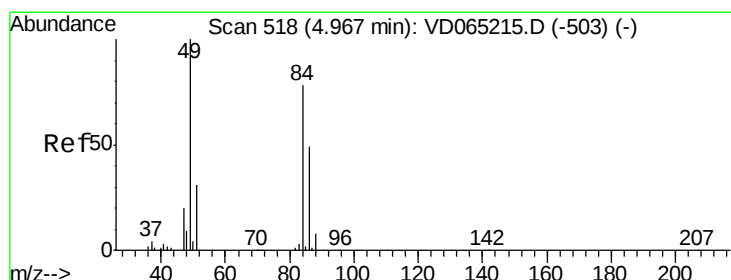
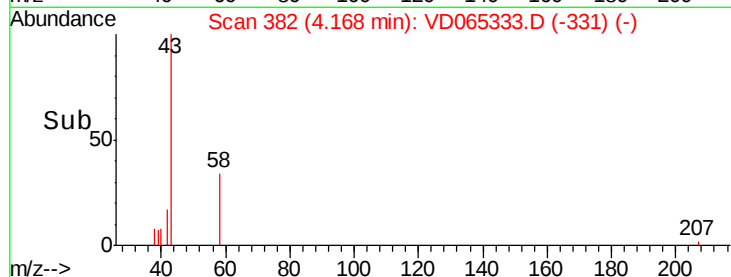
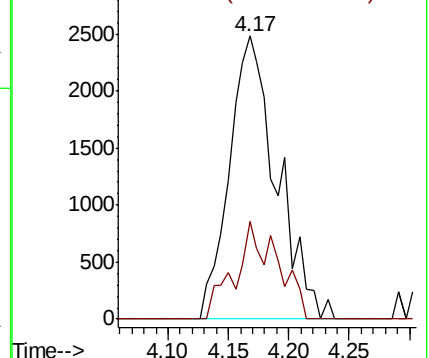
43 100

58 34.4 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: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Tgt Ion: 84 Resp: 11850

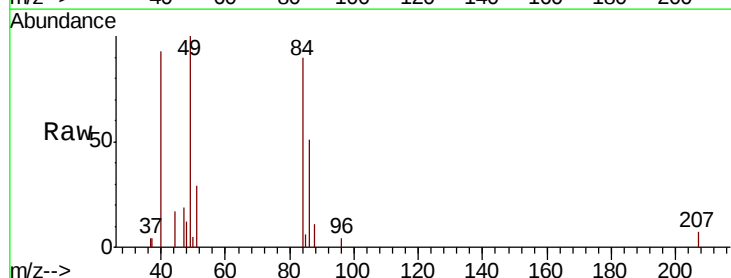
Ion Ratio Lower Upper

84 100

49 110.5 103.1 154.7

51 32.3 31.7 47.5

86 56.6 50.9 76.3

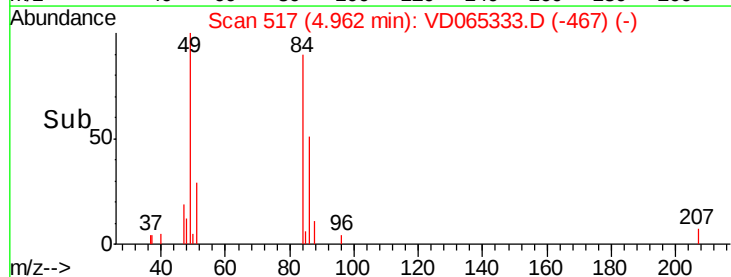
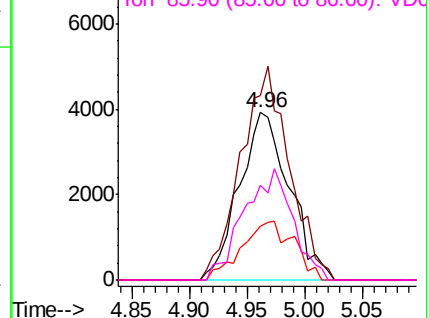


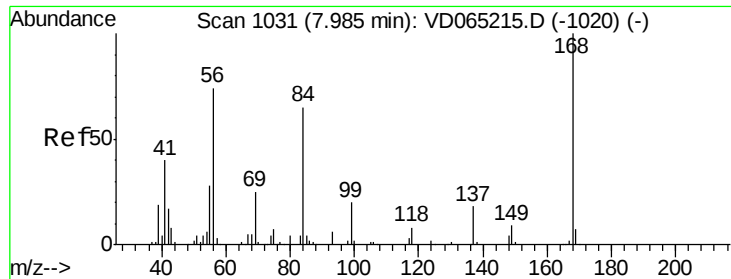
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

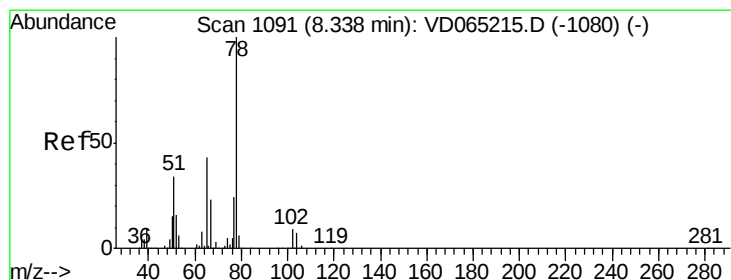
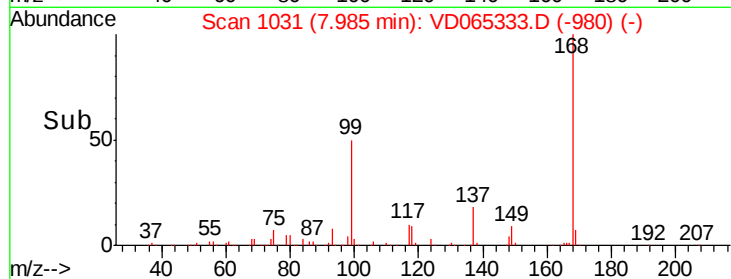
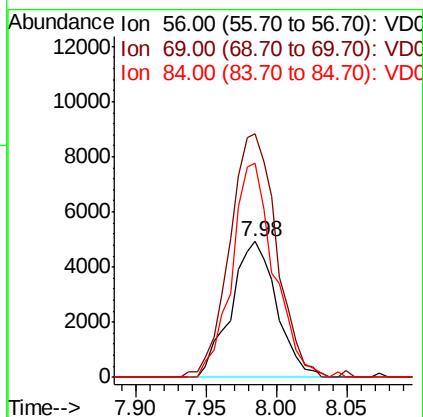
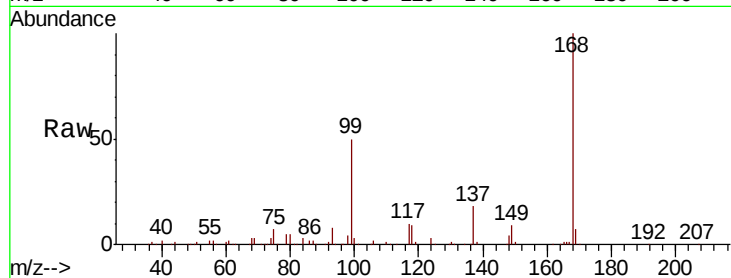




#31
Cyclohexane
Concen: 1.128 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

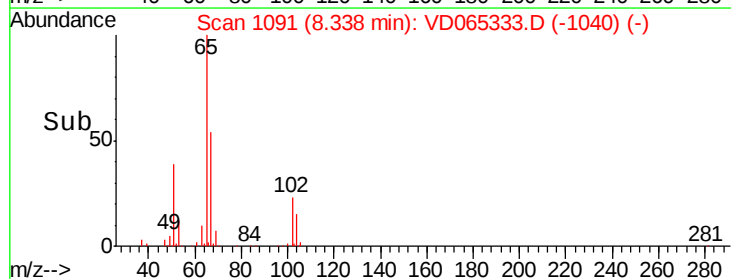
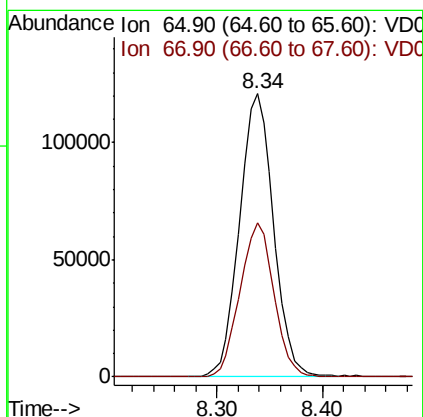
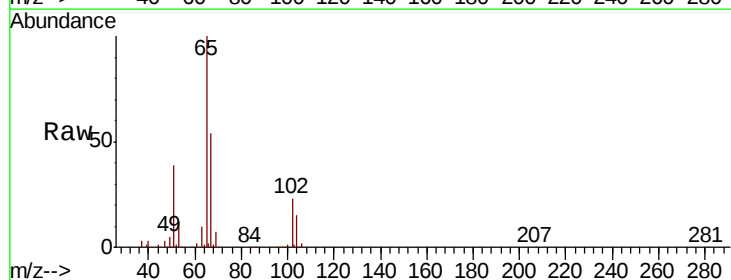
Instrument :
MSVOA_D
ClientSampled :

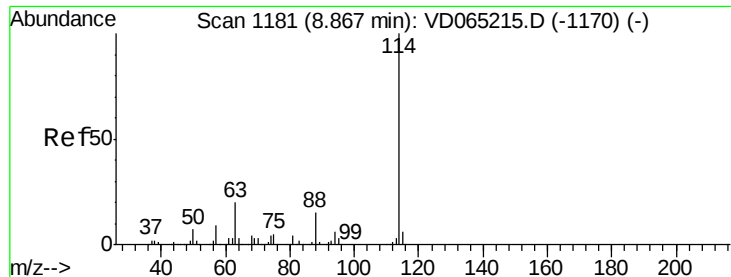
Tot Ion: 56 Resp: 11119
Ion Ratio Lower Upper
56 100
69 179.3 27.4 41.0#
84 158.1 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 54.007 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

Tgt Ion: 65 Resp: 270638
Ion Ratio Lower Upper
65 100
67 54.3 0.0 106.8

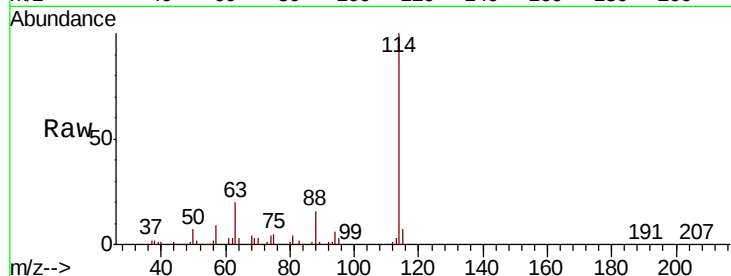




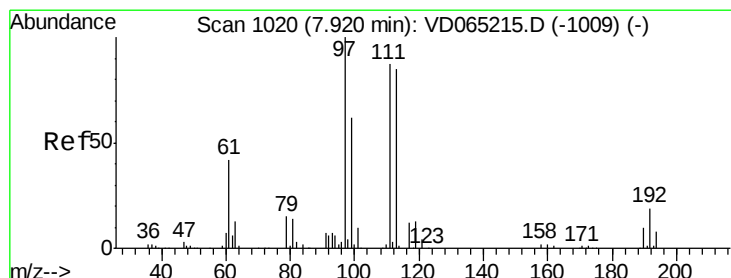
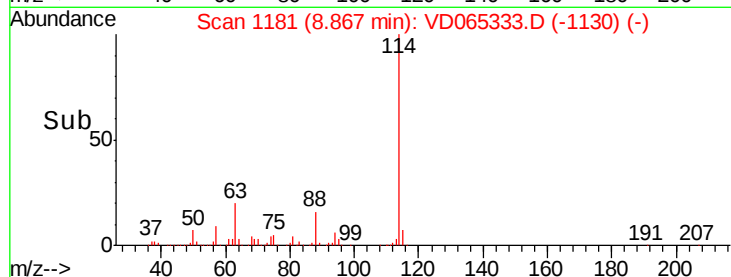
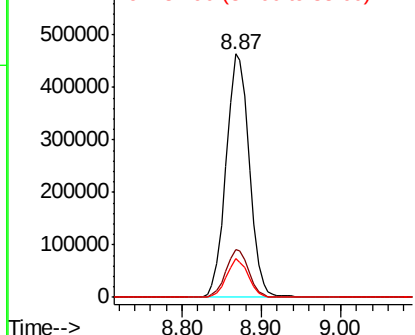
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065333.D
 Acq: 26 Feb 2020 17:41

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.4
88	15.8	0.0	30.4

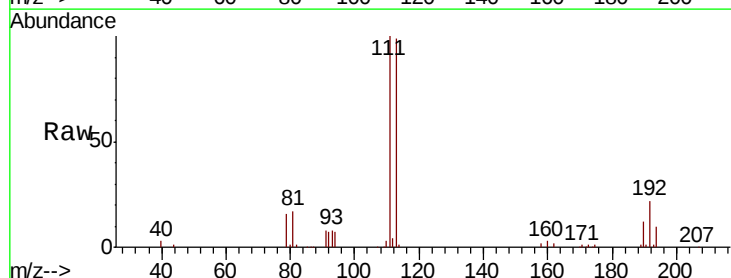


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

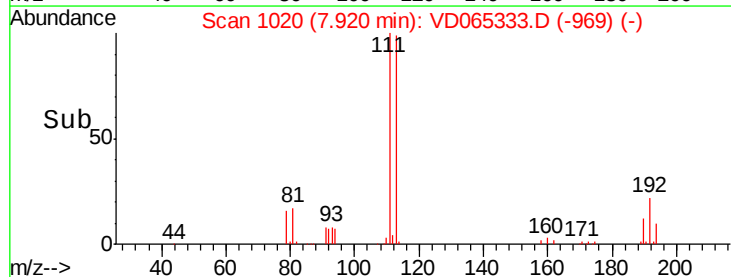
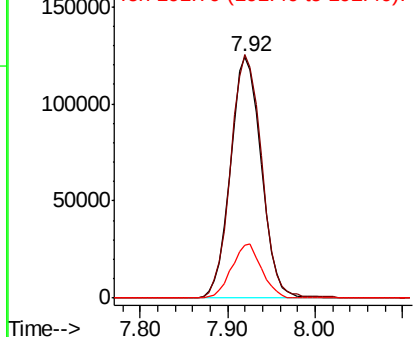


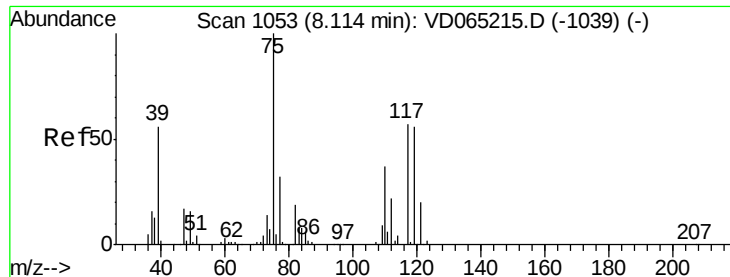
#35
 Dibromofluoromethane
 Concen: 51.734 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065333.D
 Acq: 26 Feb 2020 17:41

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	82.9	124.3
192	21.6	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: 4.419 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

ClientSampled :

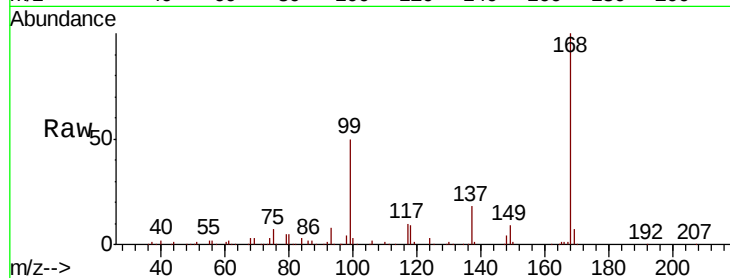
Tot Ion: 75 Resp: 40456

Ion Ratio Lower Upper

75 100

110 8.7 17.9 53.7#

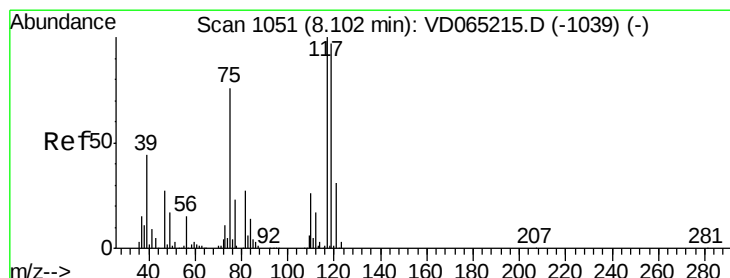
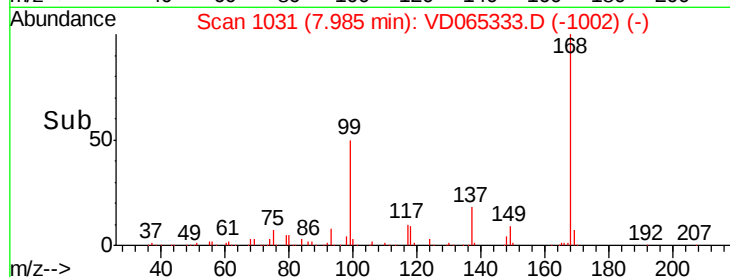
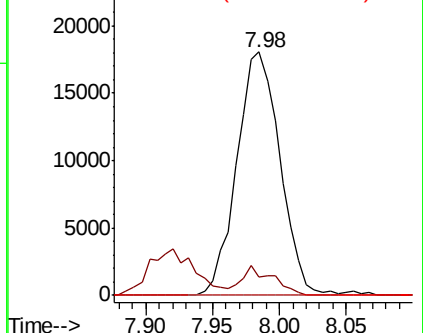
77 0.0 25.1 37.7#



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: 5.628 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

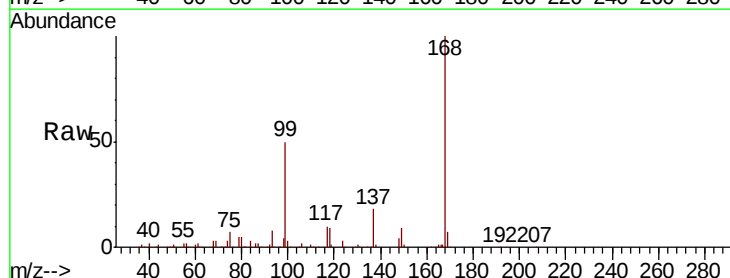
Tgt Ion: 117 Resp: 52448

Ion Ratio Lower Upper

117 100

119 5.1 77.6 116.4#

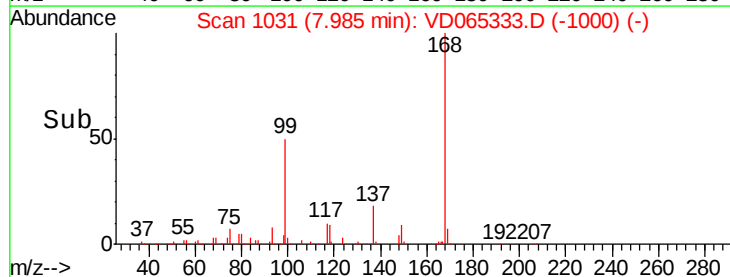
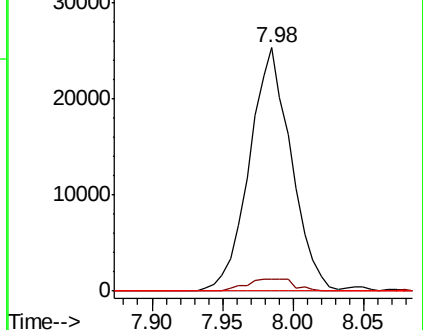
121 0.0 24.8 37.2#



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

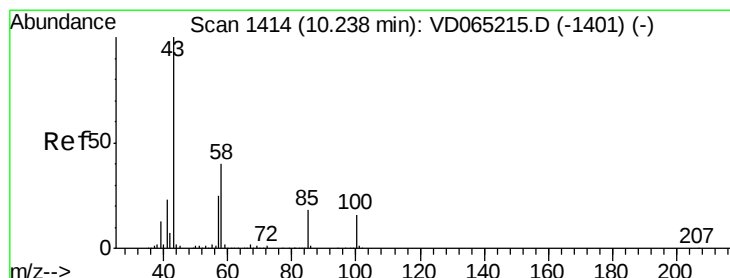
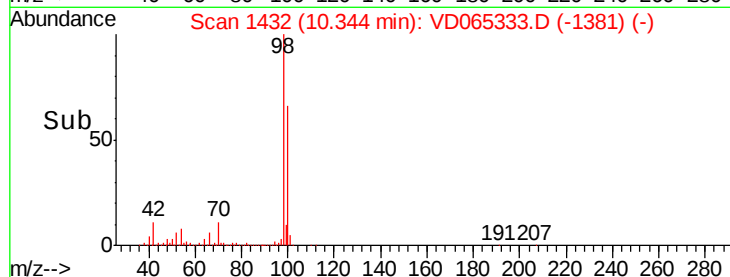
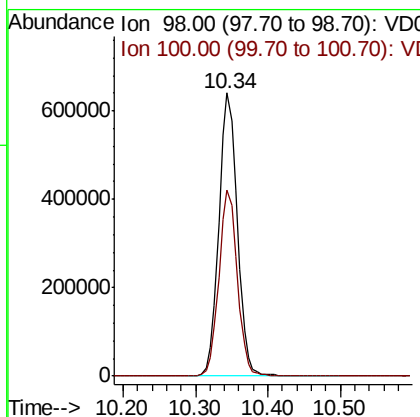
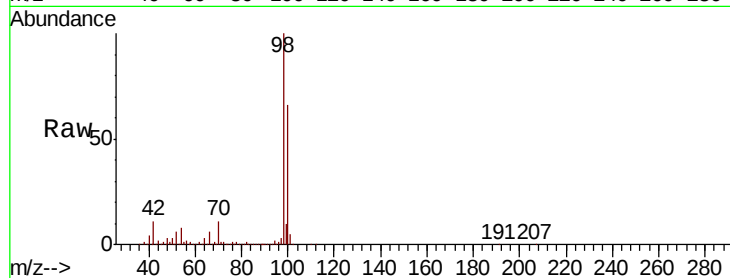




#50
Toluene-d8
Concen: 51.977 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

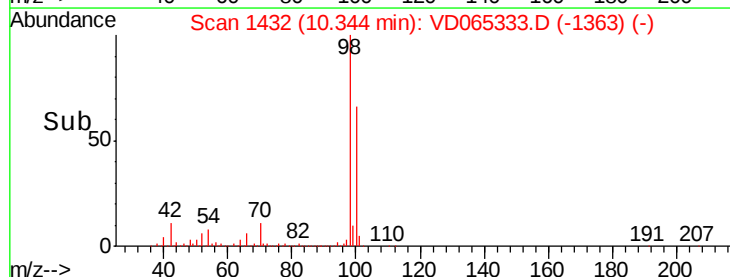
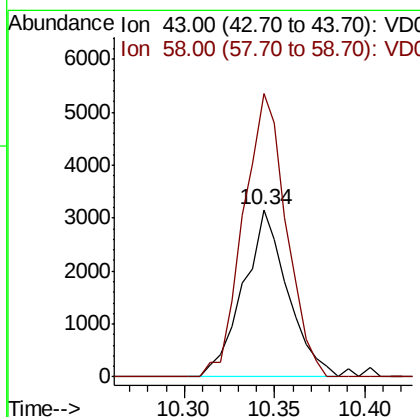
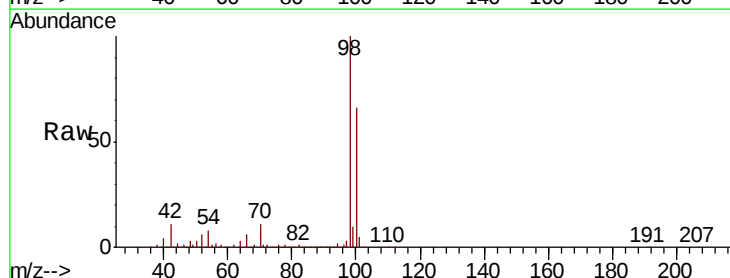
Instrument :
MSVOA_D
ClientSampleId :

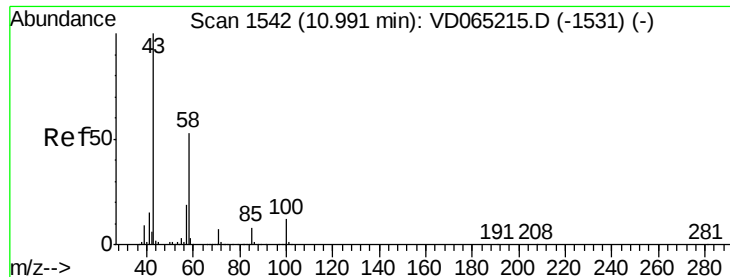
Tot Ion: 98 Resp: 1139857
Ion Ratio Lower Upper
98 100
100 65.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.523 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

Tgt Ion: 43 Resp: 5382
Ion Ratio Lower Upper
43 100
58 164.2 31.1 46.7#





#59

2-Hexanone

Concen: 1.949 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.04 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

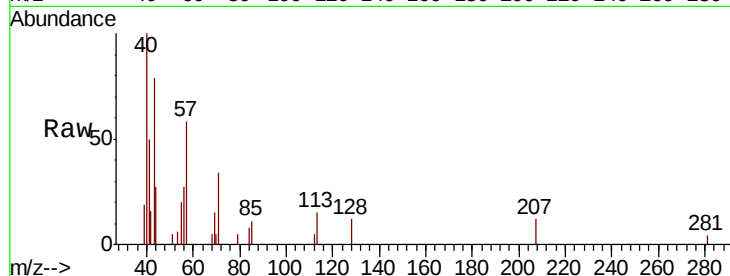
ClientSampleId :

Tot Ion: 43 Resp: 4932

Ion Ratio Lower Upper

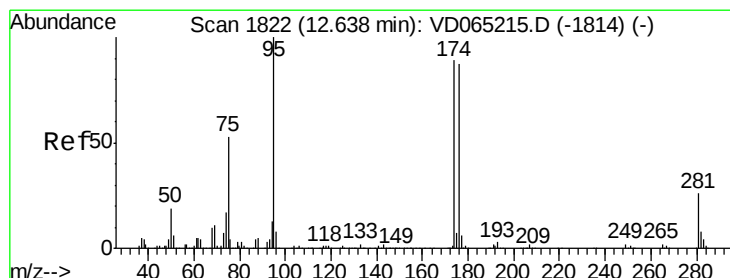
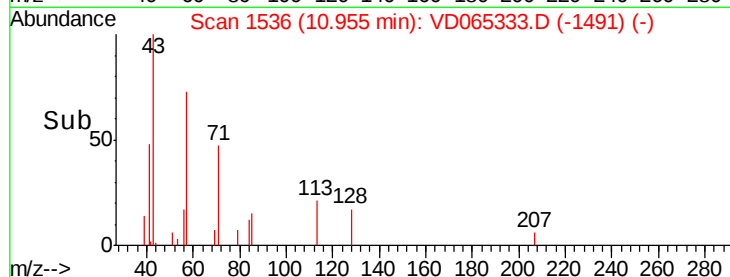
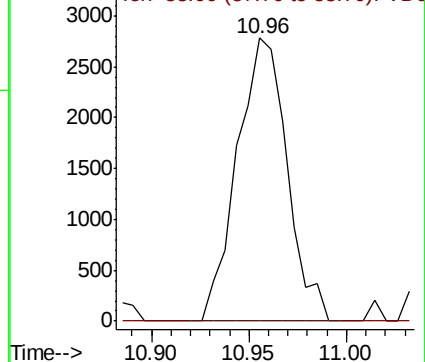
43 100

58 0.0 26.3 78.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 54.051 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

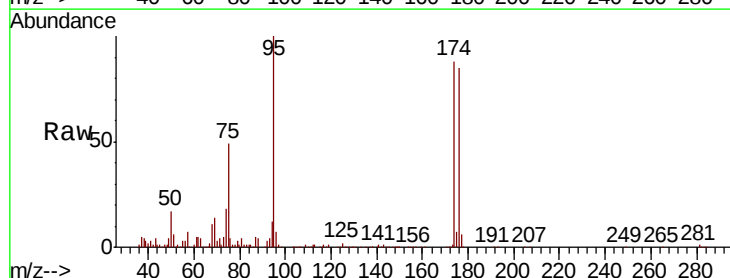
Tgt Ion: 95 Resp: 375508

Ion Ratio Lower Upper

95 100

174 89.2 0.0 178.0

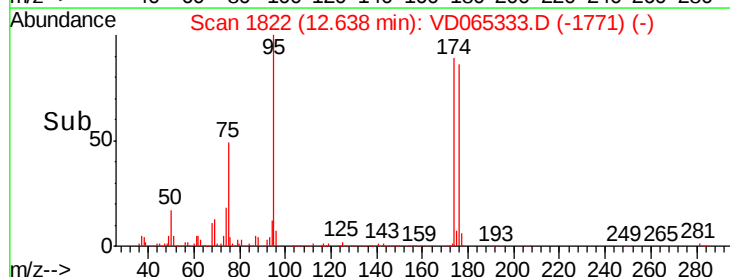
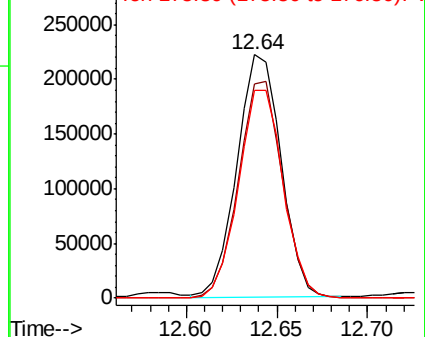
176 87.0 0.0 174.4

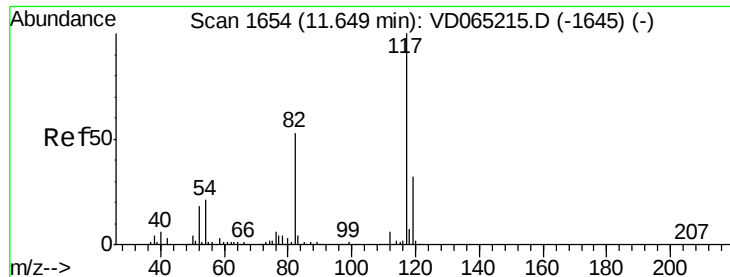


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

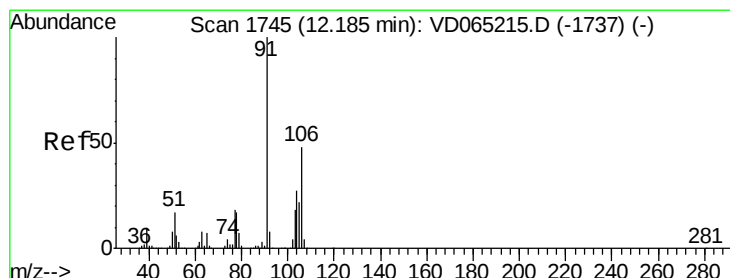
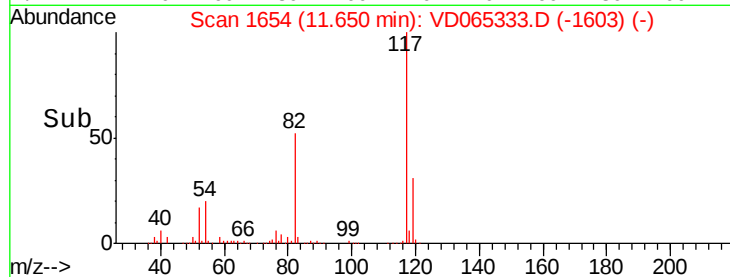
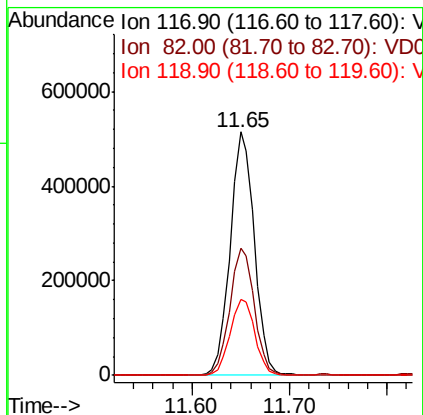
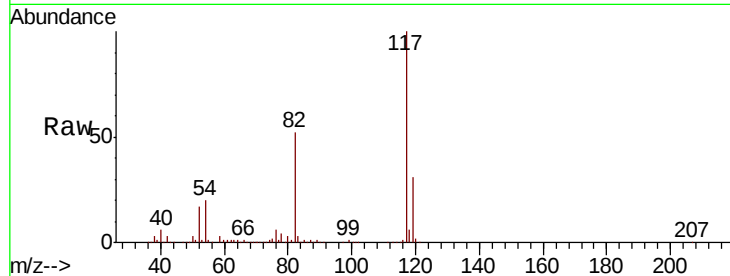




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

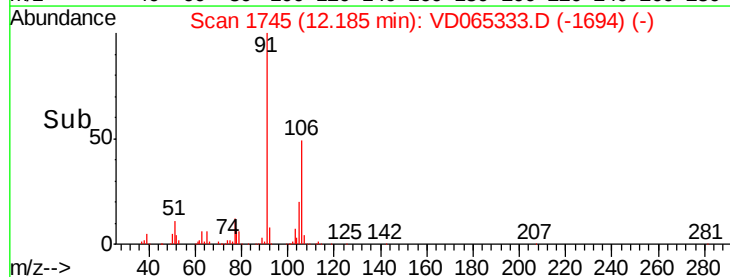
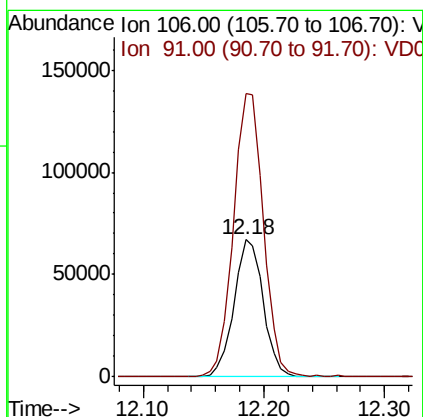
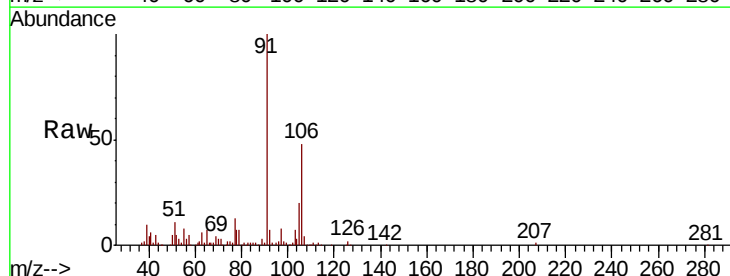
Instrument :
MSVOA_D
ClientSampleId :

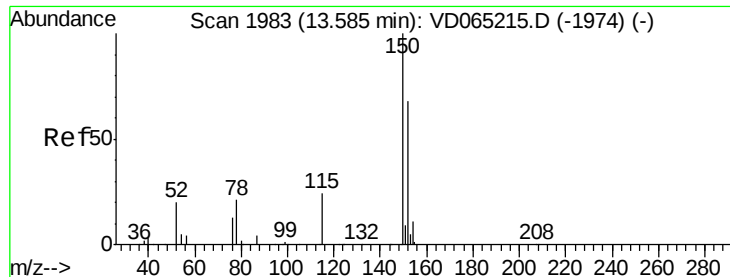
Tot Ion:117 Resp: 881816
Ion Ratio Lower Upper
117 100
82 51.8 42.7 64.1
119 31.3 25.5 38.3



#69
o-Xylene
Concen: 10.793 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

Tgt Ion:106 Resp: 113384
Ion Ratio Lower Upper
106 100
91 211.7 104.7 313.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

ClientSampleId :

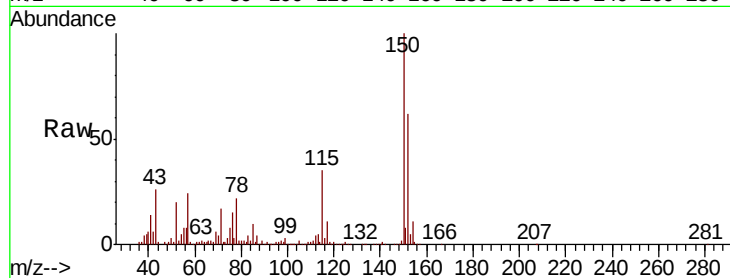
Tot Ion:152 Resp: 406874

Ion Ratio Lower Upper

152 100

115 64.7 27.6 82.8

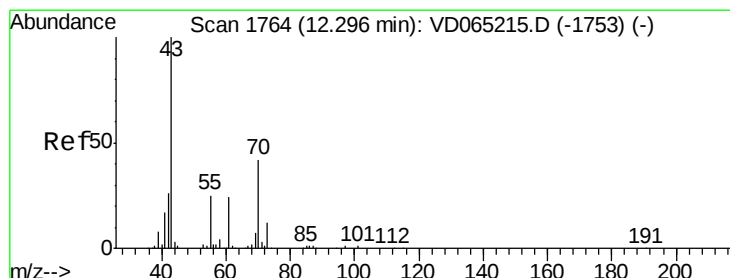
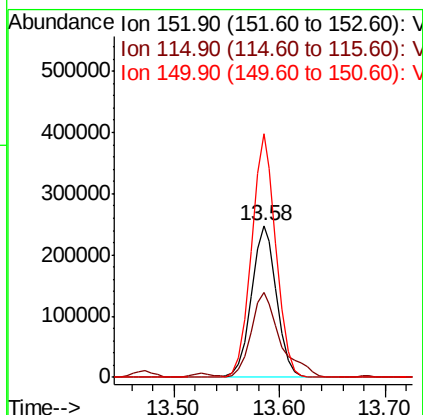
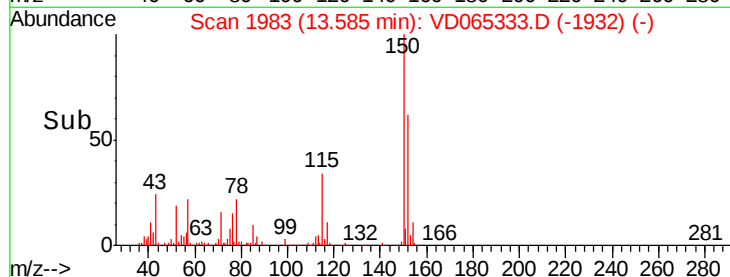
150 156.5 0.0 347.4



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: 8.360 ug/l

RT: 12.28 min Scan# 1761

Delta R.T. -0.02 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Tgt Ion: 43 Resp: 50042

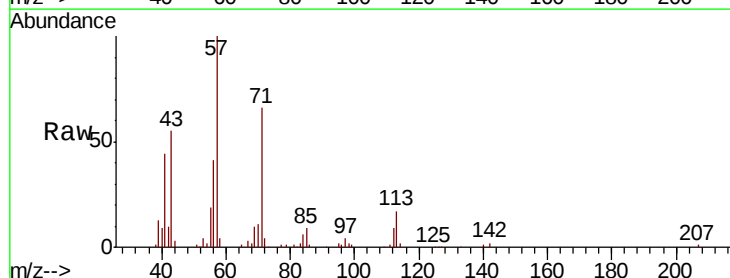
Ion Ratio Lower Upper

43 100

70 22.9 33.7 50.5#

55 19.2 20.7 31.1#

61 0.0 19.0 28.4#

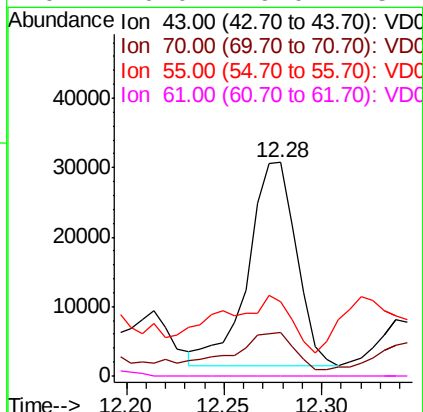
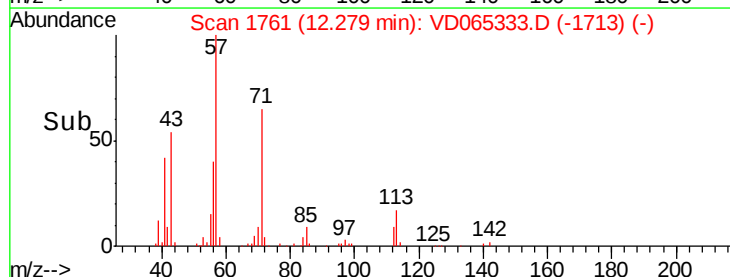


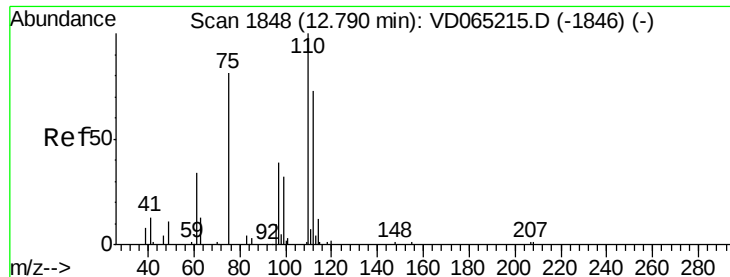
Abundance Ion 43.00 (42.70 to 43.70): VDC

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





#76

1,2,3-Trichloropropane

Concen: 53.566 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

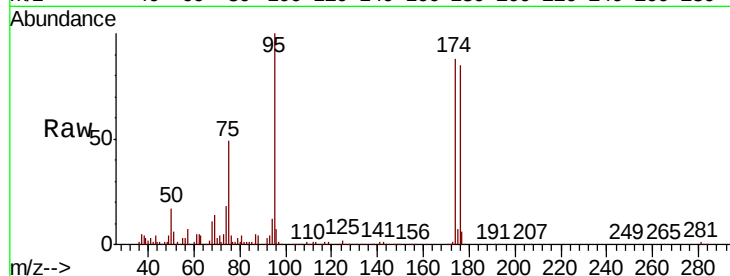
ClientSampleId :

Tot Ion: 75 Resp: 185436

Ion Ratio Lower Upper

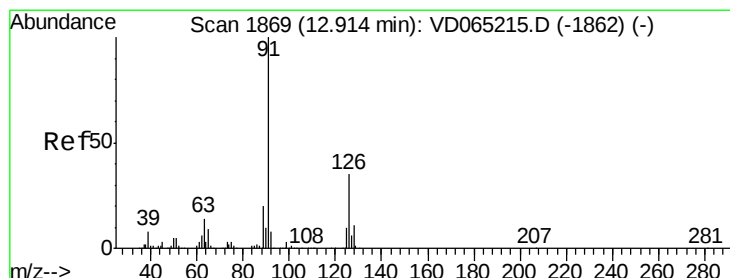
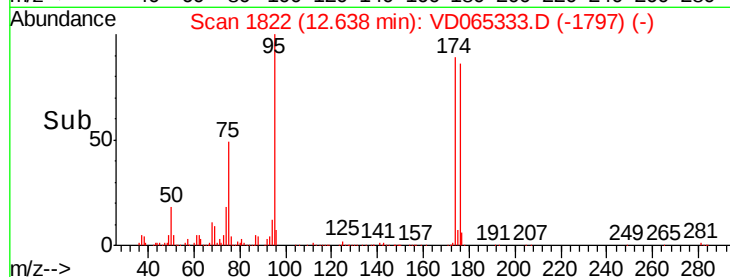
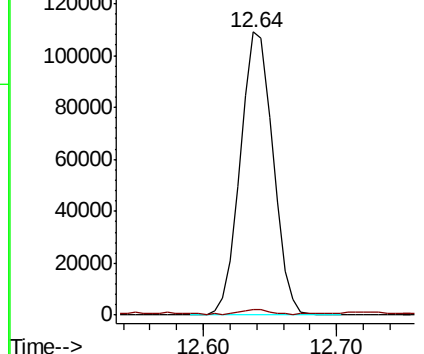
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#79

2-Chlorotoluene

Concen: 2.305 ug/l

RT: 12.93 min Scan# 1871

Delta R.T. 0.01 min

Lab File: VD065333.D

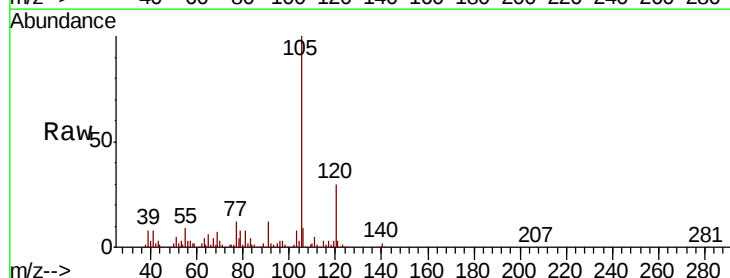
Acq: 26 Feb 2020 17:41

Tgt Ion: 91 Resp: 41802

Ion Ratio Lower Upper

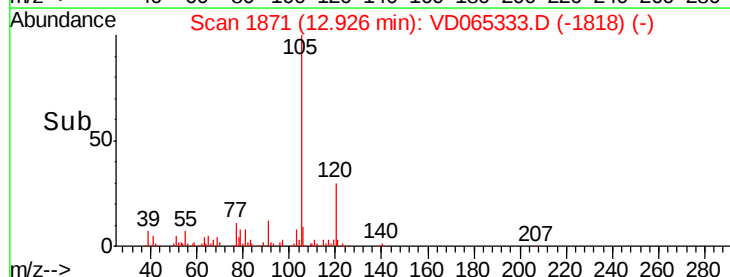
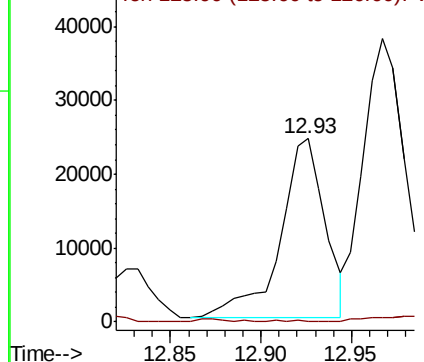
91 100

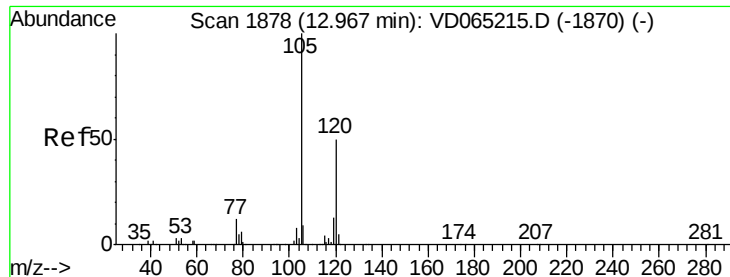
126 0.4 17.5 52.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

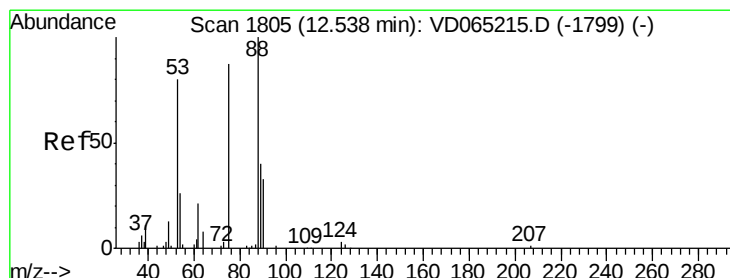
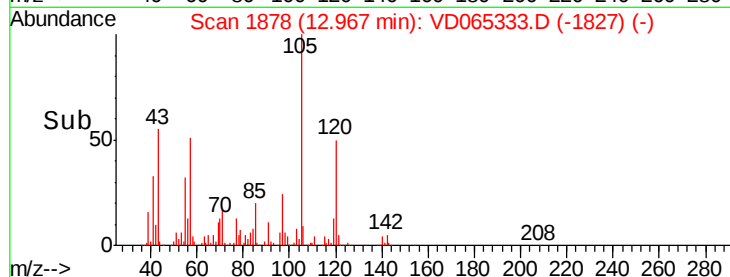
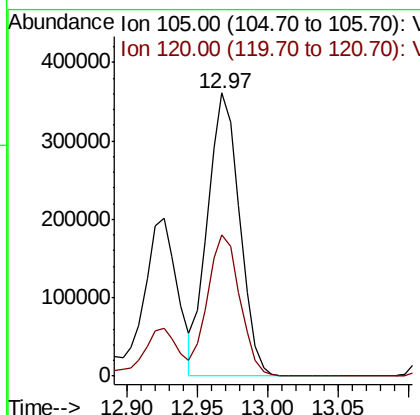
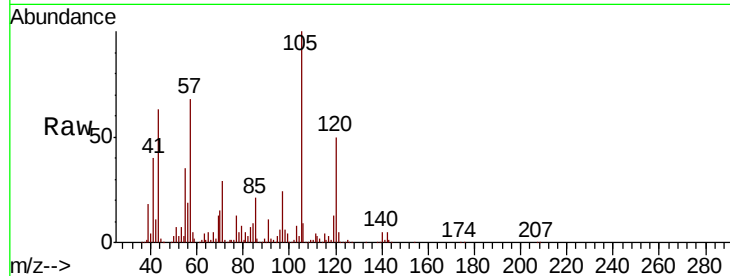




#80
 1,3,5-Trimethylbenzene
 Concen: 25.666 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065333.D
 Acq: 26 Feb 2020 17:41

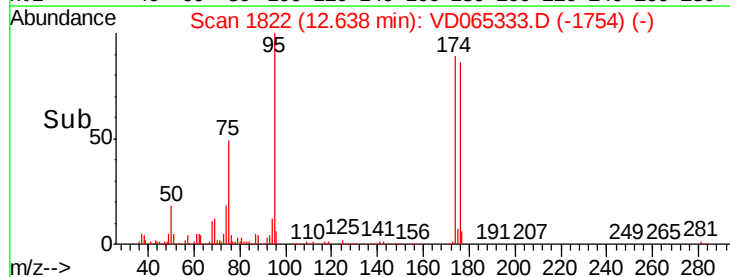
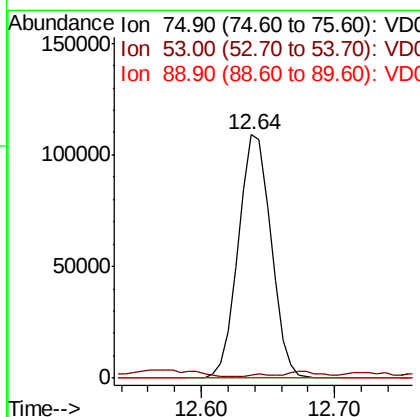
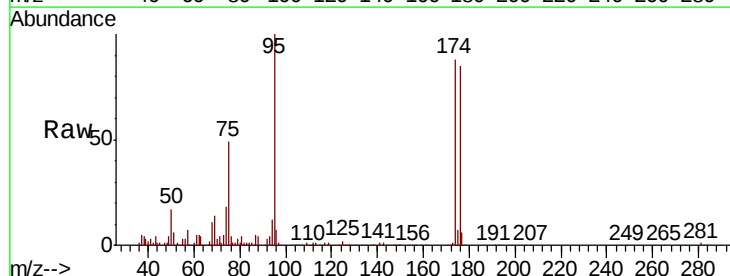
Instrument :
 MSVOA_D
 ClientSampled :

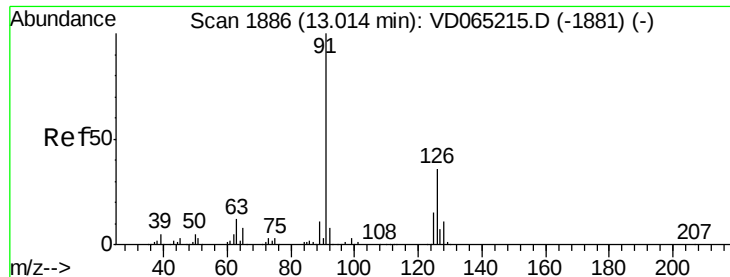
Tot Ion:105 Resp: 569425
 Ion Ratio Lower Upper
 105 100
 120 50.4 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 115.659 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD065333.D
 Acq: 26 Feb 2020 17:41

Tgt Ion: 75 Resp: 185436
 Ion Ratio Lower Upper
 75 100
 53 0.7 77.6 116.4#
 89 0.0 37.2 55.8#

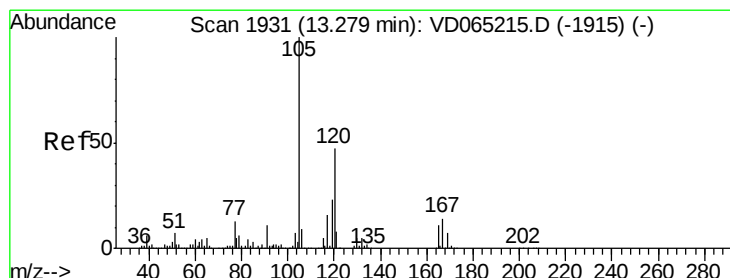
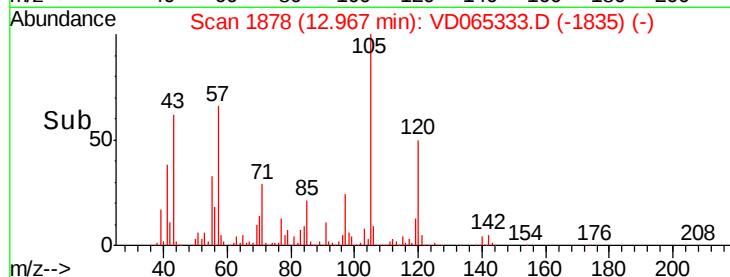
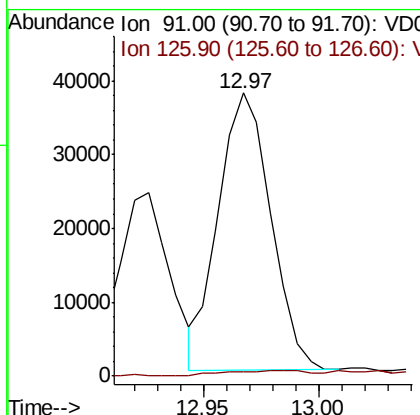
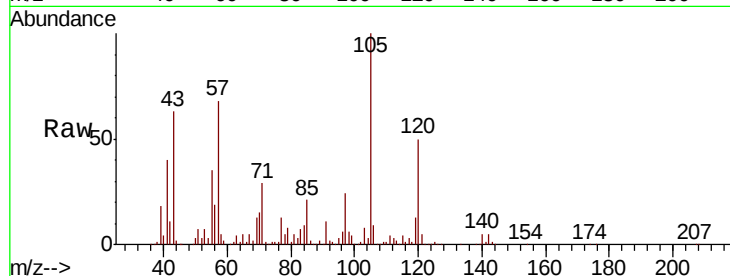




#82
4-Chlorotoluene
Concen: 3.075 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. -0.05 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

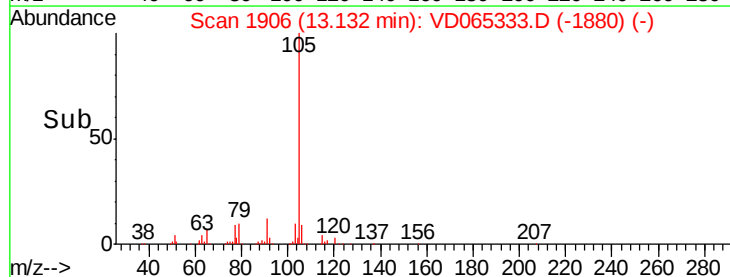
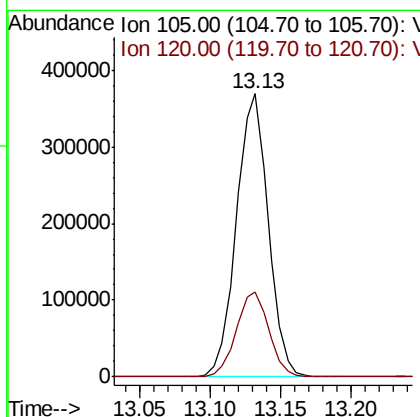
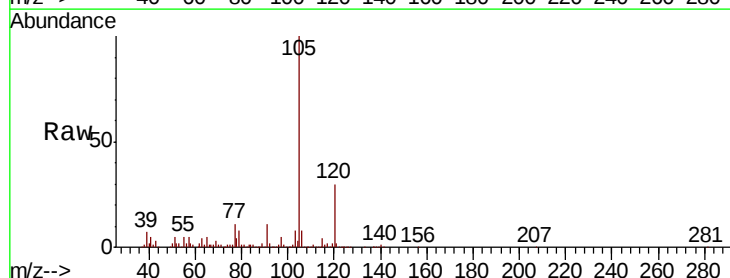
Instrument :
MSVOA_D
ClientSampled :

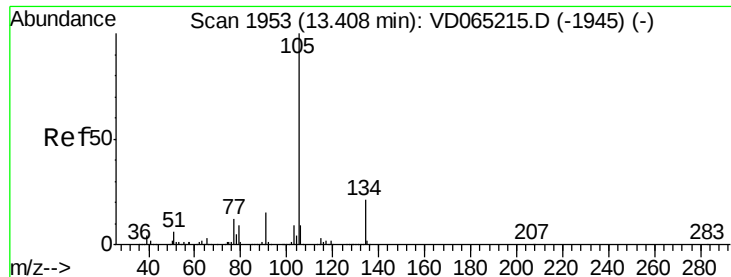
Tot Ion: 91 Resp: 59203
Ion Ratio Lower Upper
91 100
126 3.3 17.4 52.3#



#84
1,2,4-Trimethylbenzene
Concen: 26.054 ug/l
RT: 13.13 min Scan# 1906
Delta R.T. -0.15 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

Tgt Ion: 105 Resp: 578578
Ion Ratio Lower Upper
105 100
120 30.7 23.3 69.9





#85

sec-Butylbenzene

Concen: 37.119 ug/l

RT: 13.61 min Scan# 1988

Delta R.T. 0.21 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

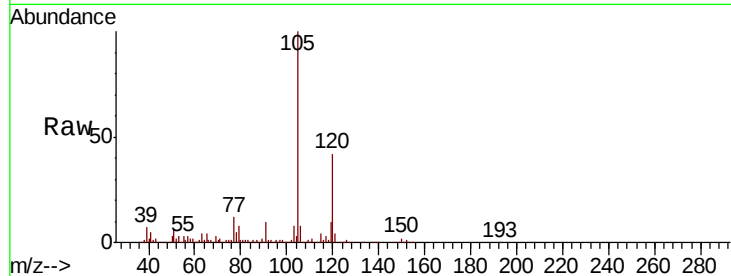
ClientSampleId :

Tot Ion:105 Resp: 994555

Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.61

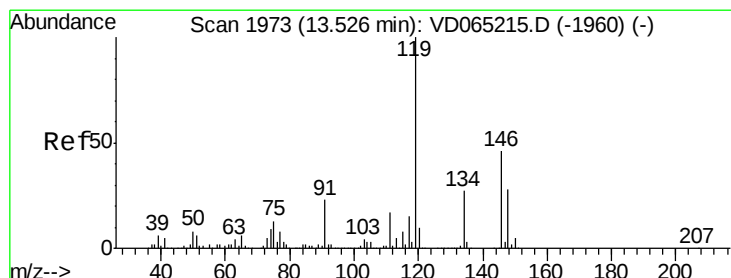
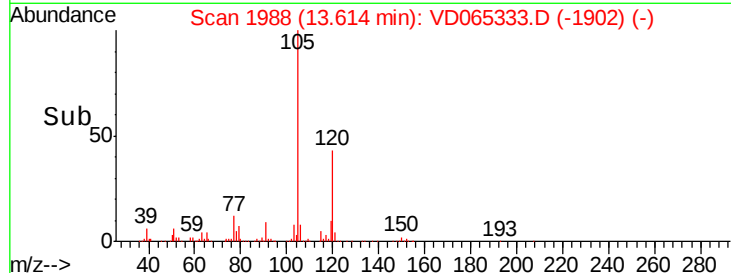
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 5.477 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

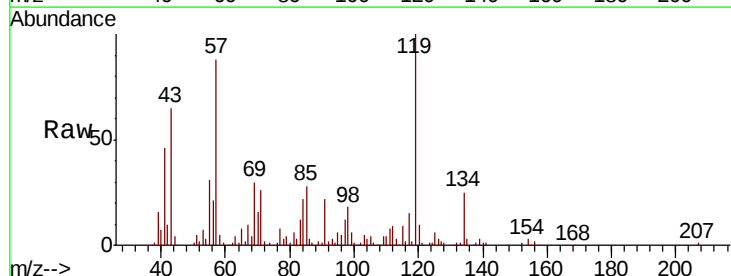
Tgt Ion:119 Resp: 134192

Ion Ratio Lower Upper

119 100

134 25.8 13.3 39.8

91 21.2 11.1 33.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.53

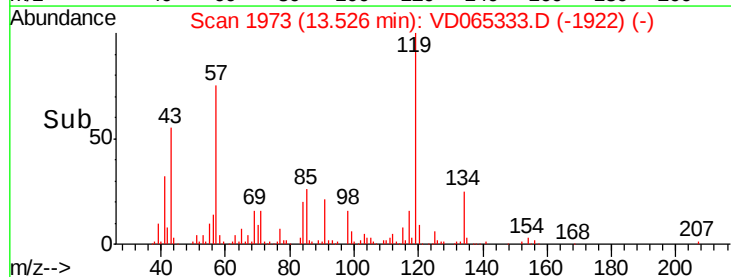
150000

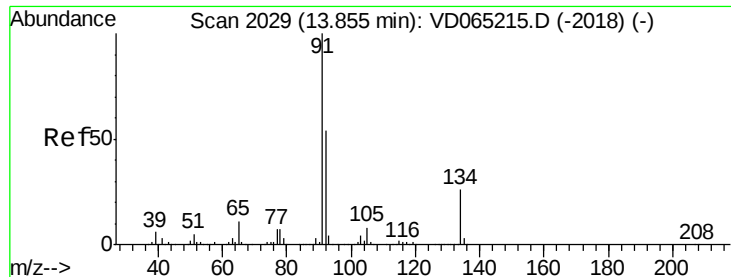
100000

50000

0

Time-->

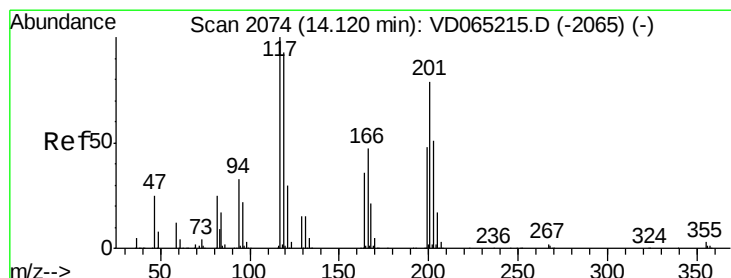
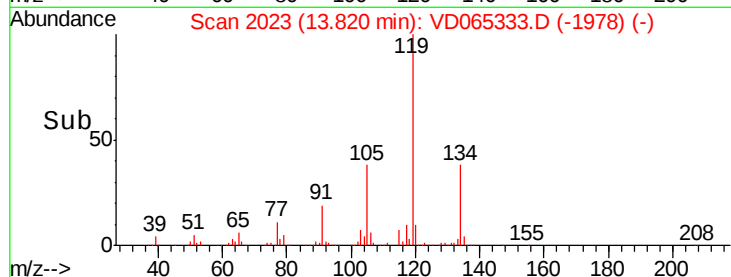
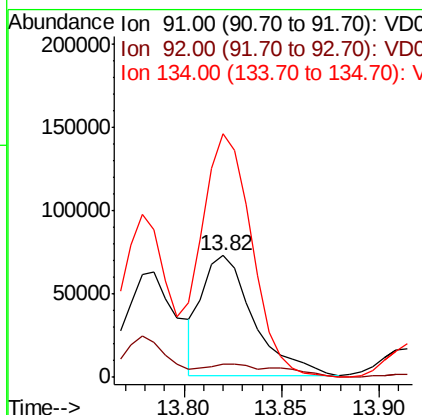
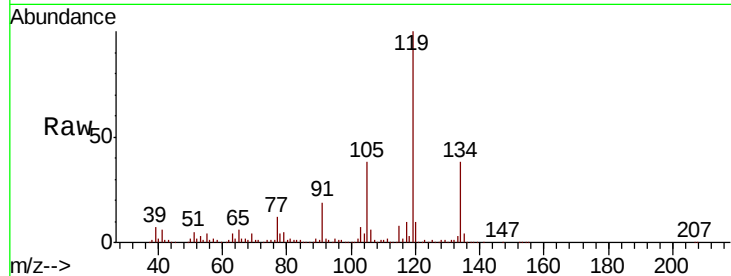




#89
n-Butylbenzene
Concen: 5.768 ug/l
RT: 13.82 min Scan# 2023
Delta R.T. -0.04 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

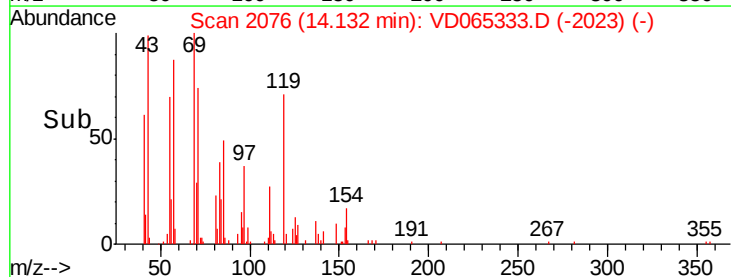
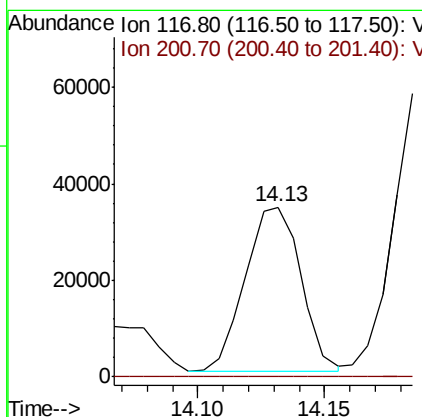
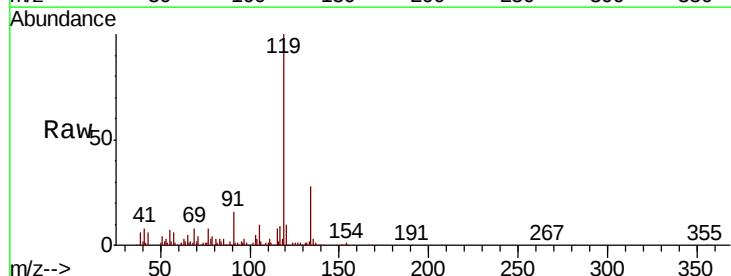
Instrument :
MSVOA_D
ClientSampleId :

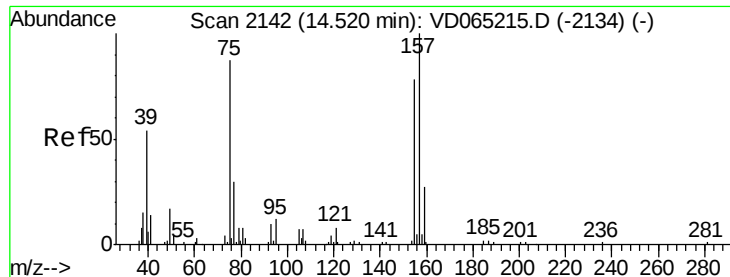
Tot Ion: 91 Resp: 130245
Ion Ratio Lower Upper
91 100
92 14.7 27.0 80.8#
134 201.3 13.5 40.4#



#90
Hexachloroethane
Concen: 10.483 ug/l
RT: 14.13 min Scan# 2076
Delta R.T. 0.01 min
Lab File: VD065333.D
Acq: 26 Feb 2020 17:41

Tgt Ion: 117 Resp: 52156
Ion Ratio Lower Upper
117 100
201 0.0 41.3 124.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.313 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VD065333.D

Acq: 26 Feb 2020 17:41

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 1733

Ion Ratio Lower Upper

75 100

155 15.9 42.3 126.9#

157 0.0 56.7 170.1#

