

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112119\
 Data File : VD064326.D
 Acq On : 21 Nov 2019 15:59
 Operator : VA/SY
 Sample : K5676-26
 Misc : 8.18G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 22 00:42:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	606062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	873701	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	791006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	392848	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	296650	59.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.02%	
35) Dibromofluoromethane	7.92	113	277441	55.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.64%	
50) Toluene-d8	10.34	98	1007170	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	
62) 4-Bromofluorobenzene	12.64	95	343222	52.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.76%	

Target Compounds

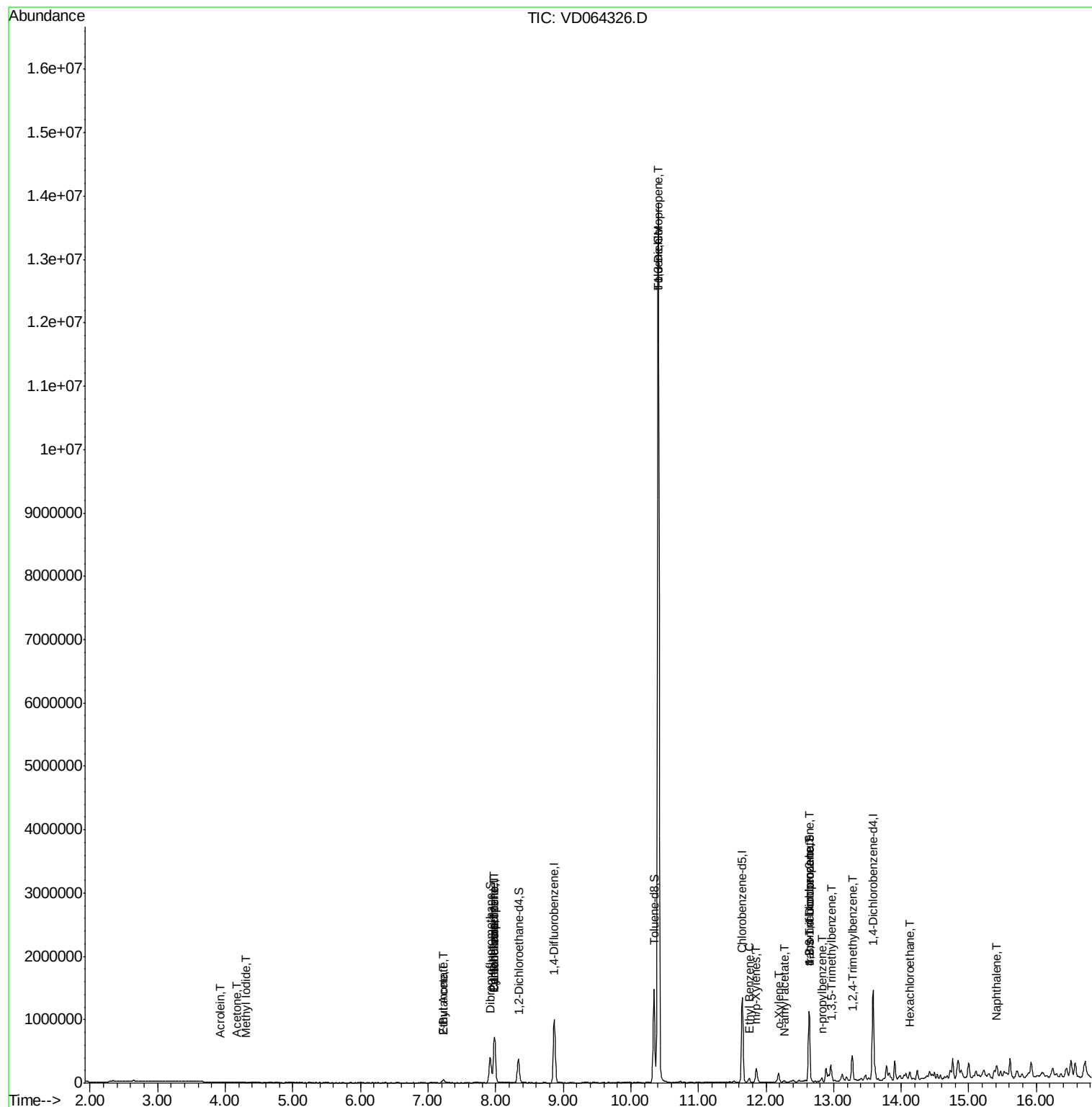
						Qvalue
10) Methyl Iodide	4.30	142	1056	2.197	ug/l #	74
13) Acrolein	3.92	56	386	1.311	ug/l #	1
16) Acetone	4.17	43	20478	17.342	ug/l	91
25) 2-Butanone	7.23	43	66782	43.775	ug/l	92
31) Cyclohexane	7.98	56	11481	1.174	ug/l #	31
36) 1,1-Dichloropropene	7.98	75	38460	4.770	ug/l #	51
37) Ethyl Acetate	7.23	43	66782	19.645	ug/l #	70
38) Carbon Tetrachloride	7.98	117	54205	6.282	ug/l #	15
52) Toluene	10.41	92	6031282	416.204	ug/l	97
53) t-1,3-Dichloropropene	10.41	75	72661	9.377	ug/l #	1
67) Ethyl Benzene	11.75	91	44285	1.522	ug/l	100
68) m/p-Xylenes	11.86	106	67929	6.091	ug/l	91
69) o-Xylene	12.18	106	36978	3.575	ug/l	94
74) N-amyl acetate	12.26	43	12745	1.872	ug/l #	46
76) 1,2,3-Trichloropropane	12.64	75	174885	55.269	ug/l #	100
78) n-propylbenzene	12.83	91	48609	1.475	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	59472	2.510	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.64	75	174885	109.785	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.28	105	232622	9.945	ug/l	98
90) Hexachloroethane	14.13	117	5987	1.214	ug/l #	6
95) Naphthalene	15.41	128	168358	12.096	ug/l	100

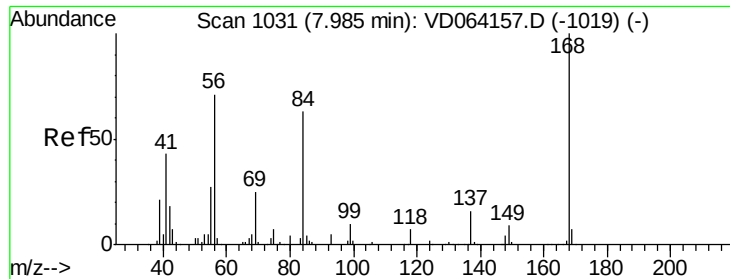
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

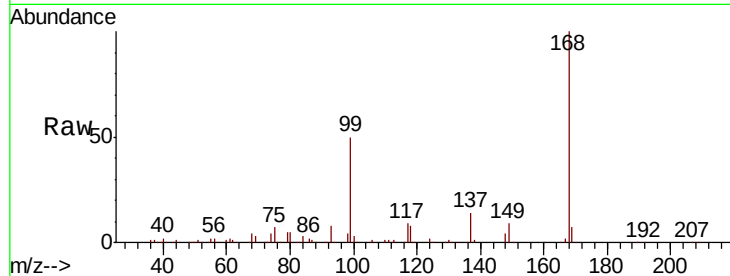
ClientSampleId :

Tot Ion:168 Resp: 606062

Ion Ratio Lower Upper

168 100

99 49.6 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

250000

200000

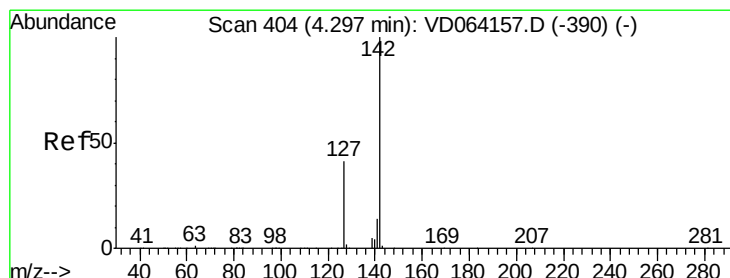
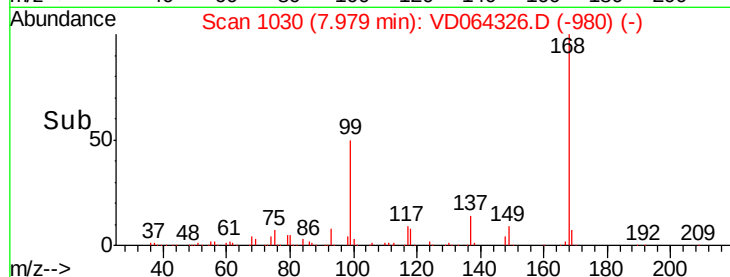
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.197 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

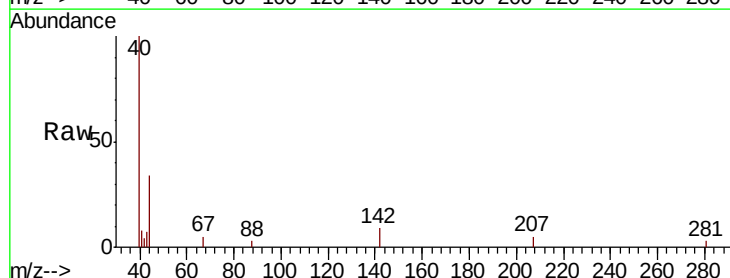
Tgt Ion:142 Resp: 1056

Ion Ratio Lower Upper

142 100

127 28.0 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

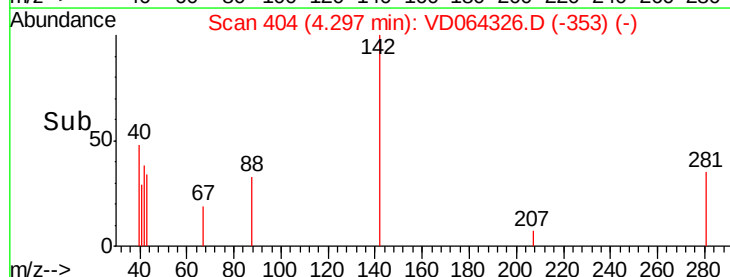
600

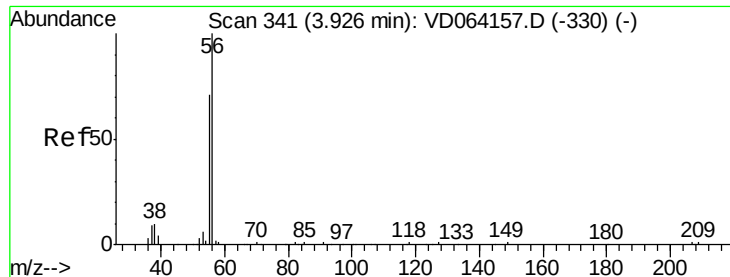
400

200

0

Time-->





#13

Acrolein

Concen: 1.311 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

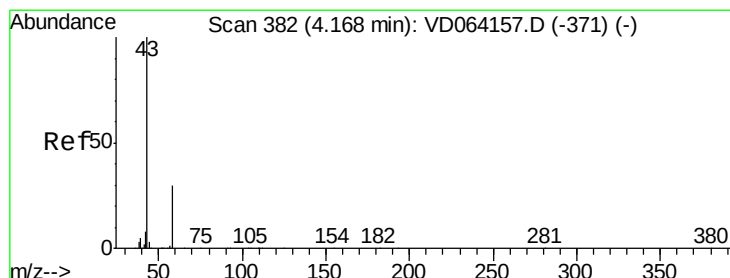
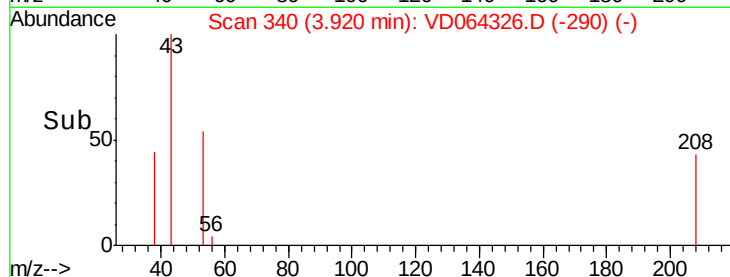
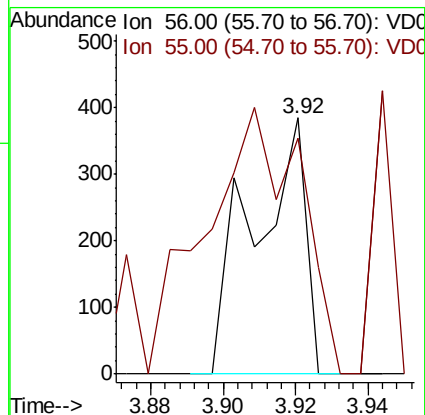
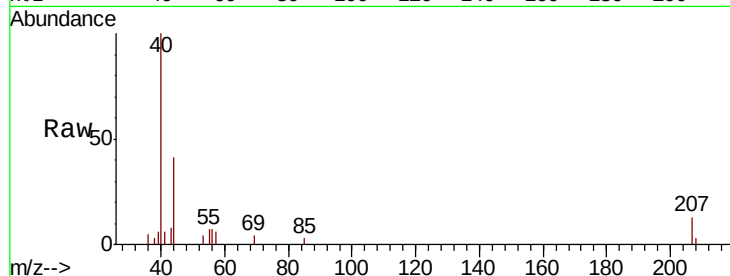
ClientSampleId :

Tot Ion: 56 Resp: 386

Ion Ratio Lower Upper

56 100

55 205.4 56.1 84.1#



#16

Acetone

Concen: 17.342 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD064326.D

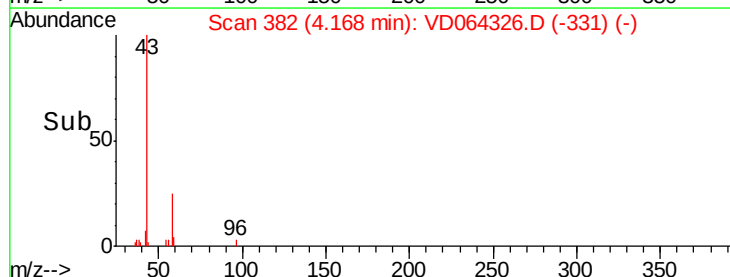
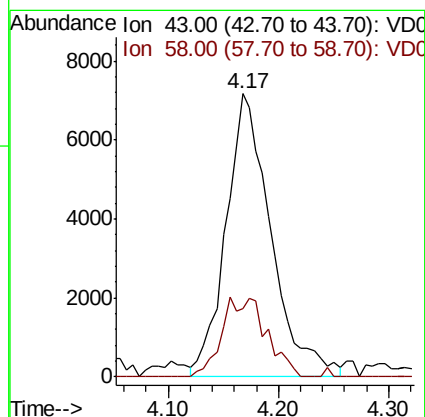
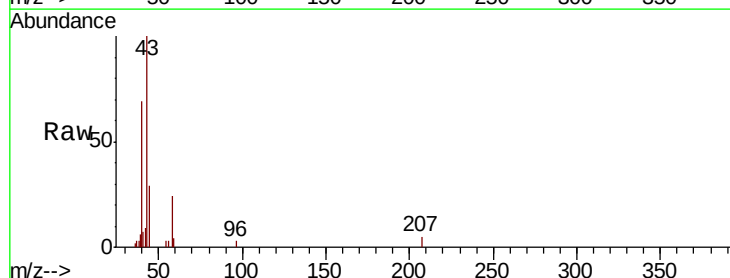
Acq: 21 Nov 2019 15:59

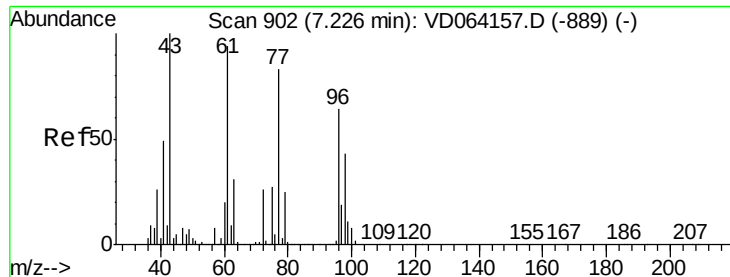
Tgt Ion: 43 Resp: 20478

Ion Ratio Lower Upper

43 100

58 25.1 24.1 36.1

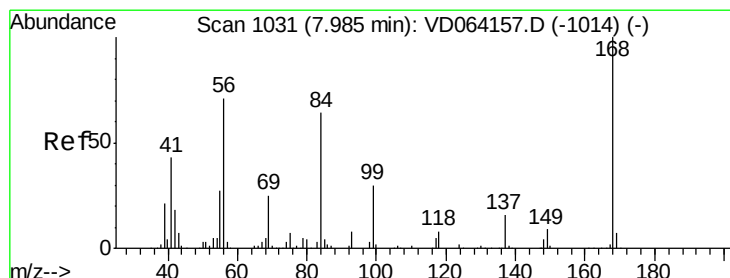
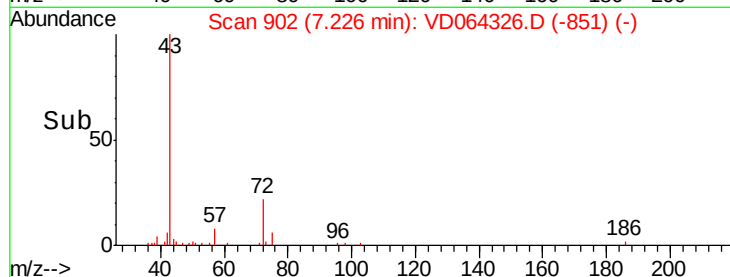
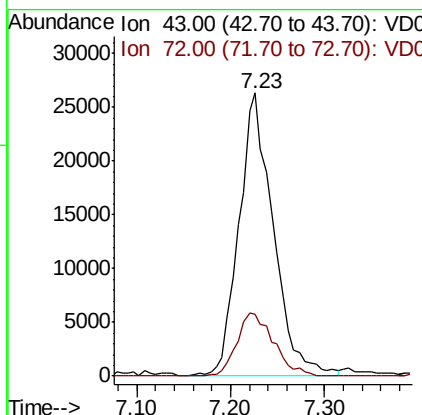
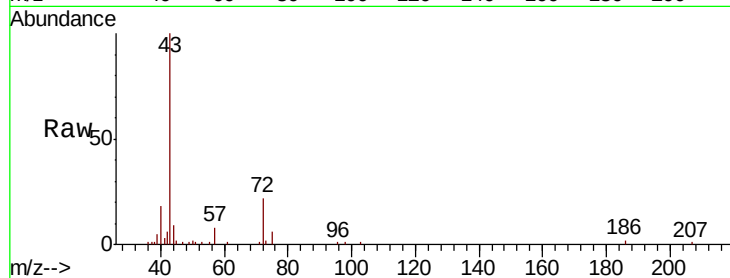




#25
2-Butanone
Concen: 43.775 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

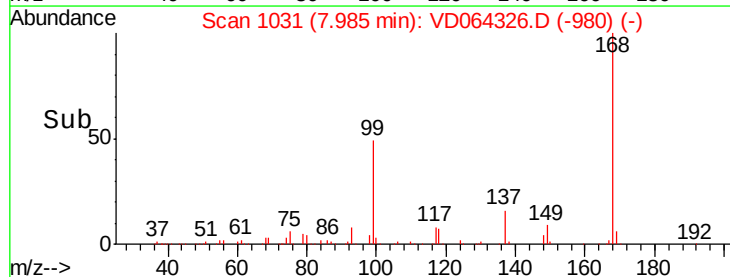
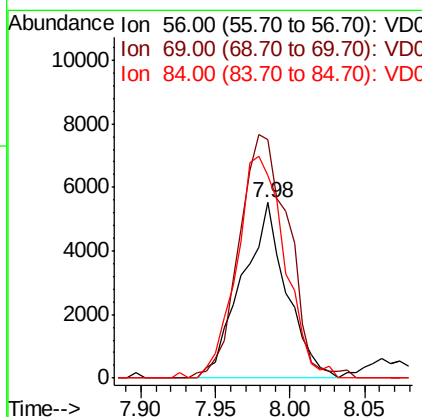
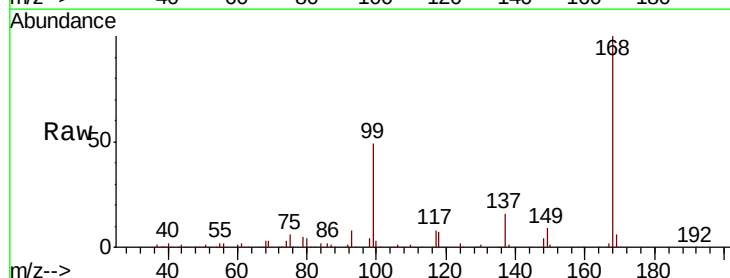
Instrument :
MSVOA_D
ClientSampleId :

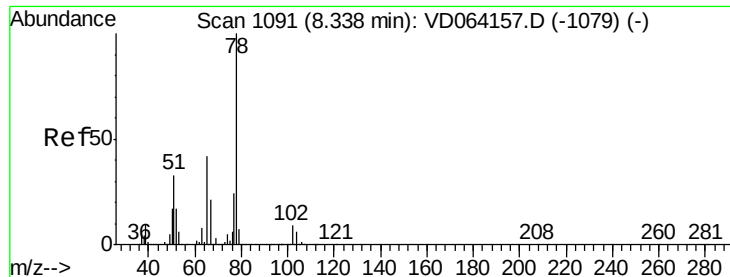
Tot Ion: 43 Resp: 66782
Ion Ratio Lower Upper
43 100
72 21.8 20.6 30.8



#31
Cyclohexane
Concen: 1.174 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion: 56 Resp: 11481
Ion Ratio Lower Upper
56 100
69 136.3 28.2 42.4#
84 115.5 71.8 107.6#

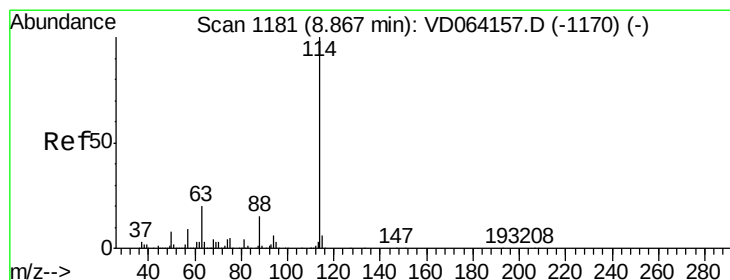
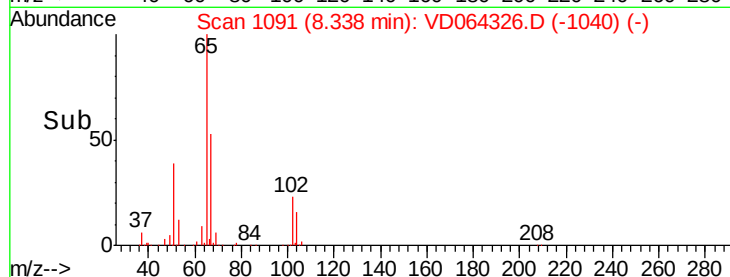
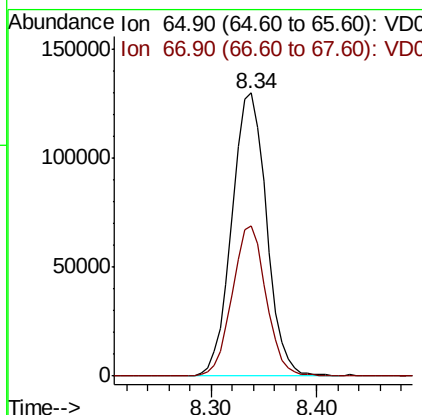
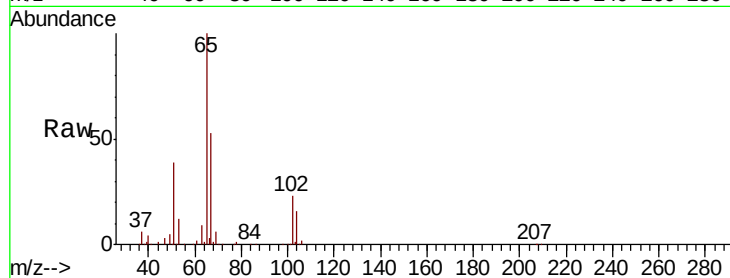




#33
 1,2-Dichloroethane-d4
 Concen: 59.514 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

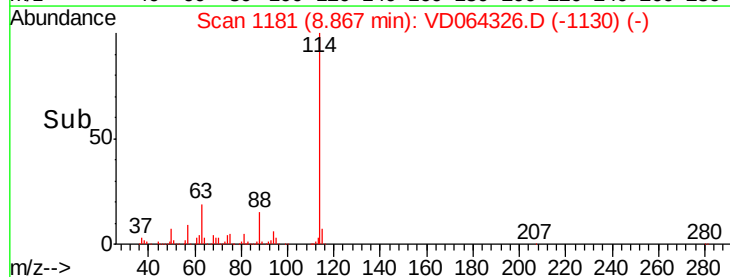
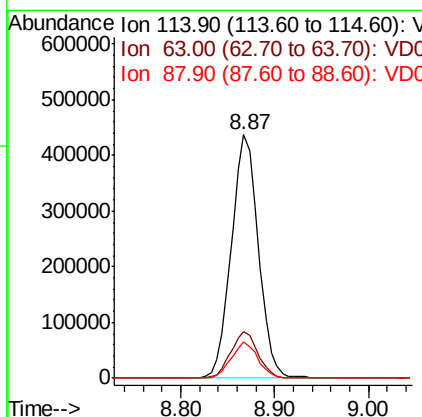
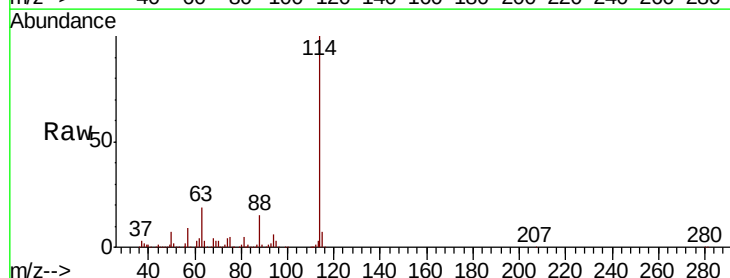
Instrument :
 MSVOA_D
 ClientSampleId :

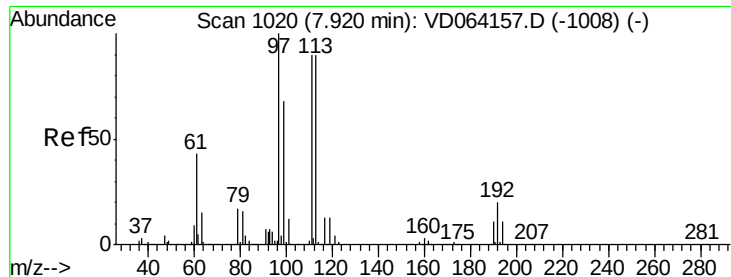
Tot Ion: 65 Resp: 296650
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

Tgt Ion: 114 Resp: 873701
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 14.6 0.0 30.2

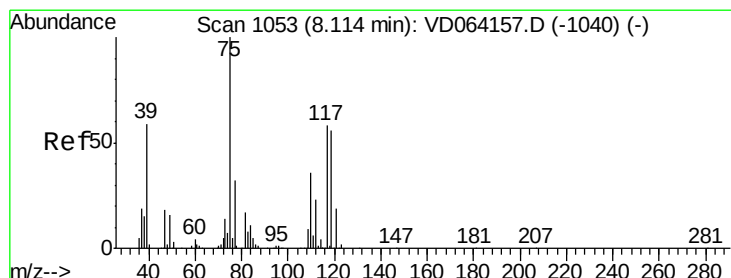
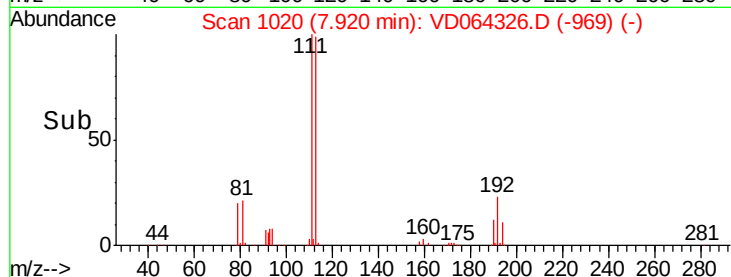
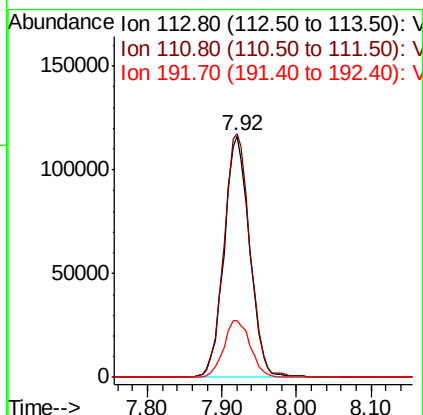
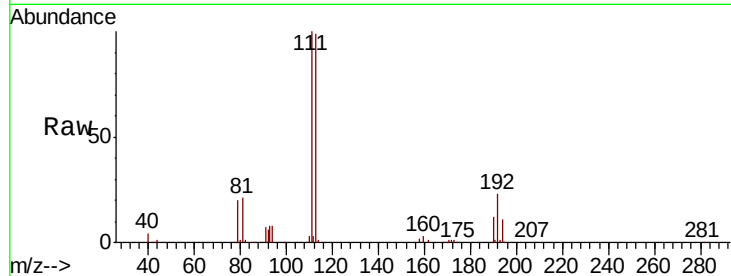




#35
 Dibromofluoromethane
 Concen: 55.320 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

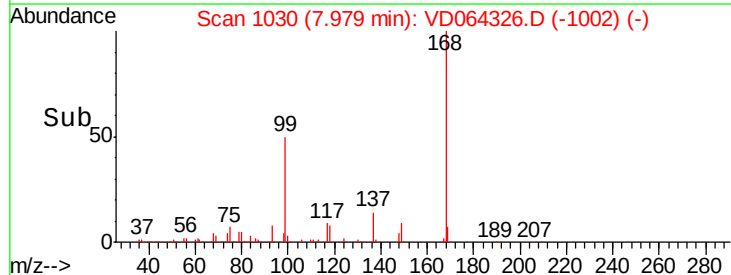
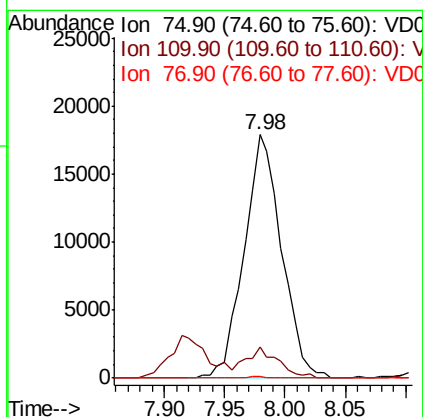
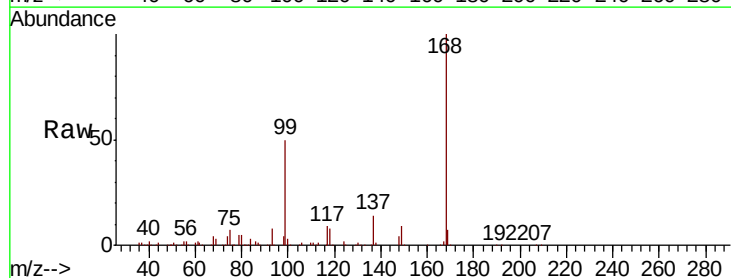
Instrument :
 MSVOA_D
 ClientSampleId :

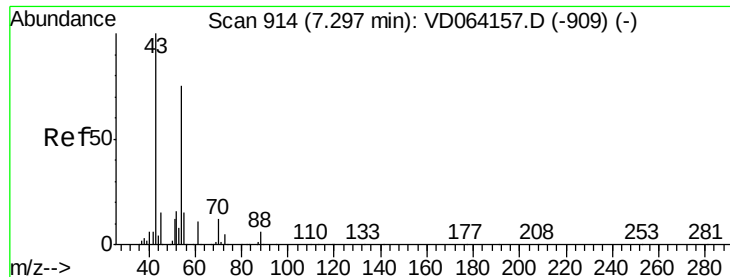
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	24.5	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.770 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.3	54.9#
77	0.3	25.0	37.6#

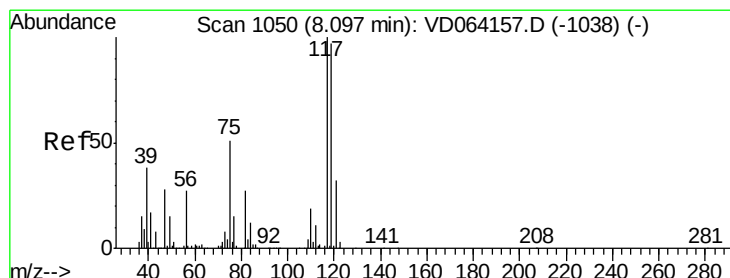
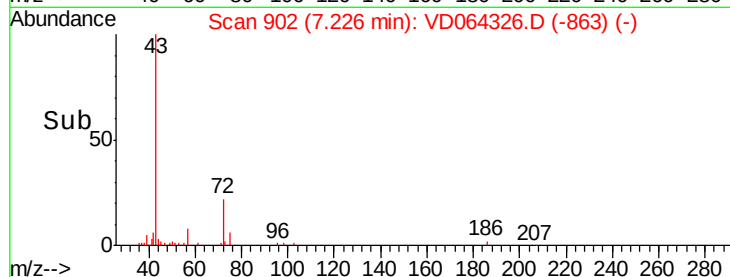
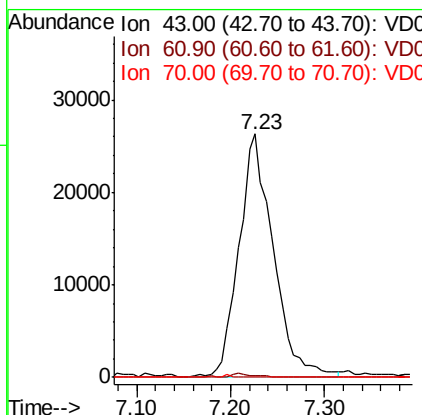
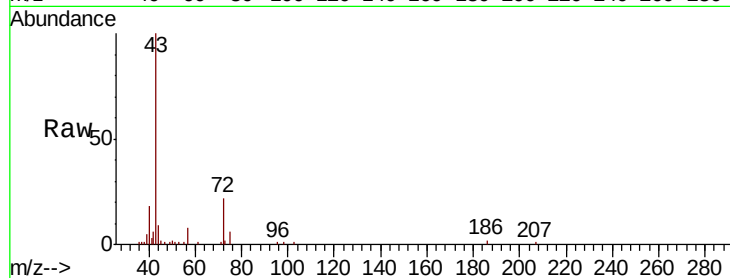




#37
Ethyl Acetate
Concen: 19.645 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.07 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

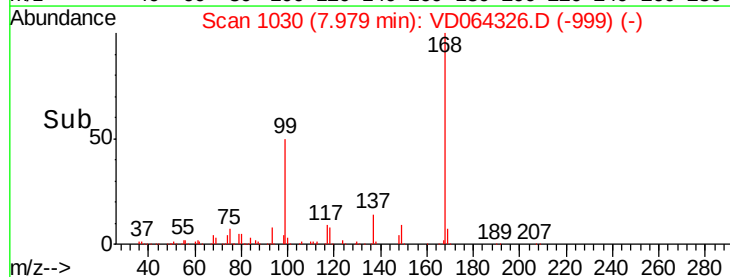
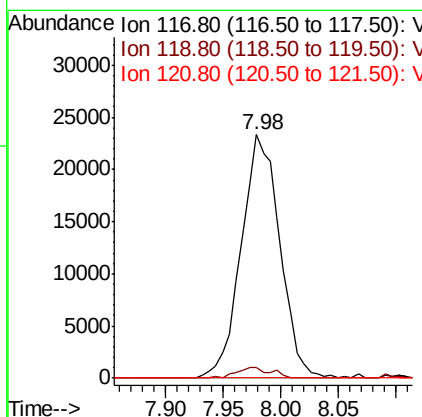
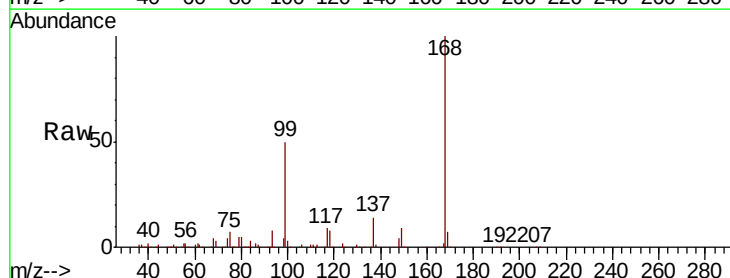
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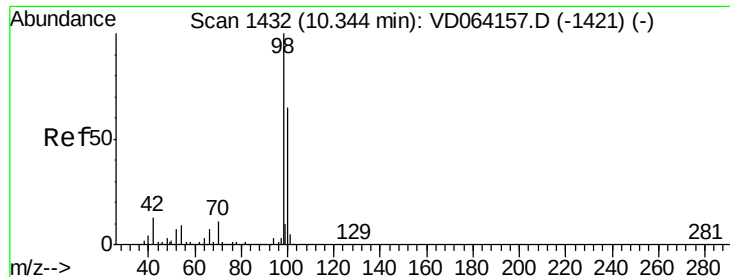
Tot Ion: 43 Resp: 66782
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 6.282 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion: 117 Resp: 54205
Ion Ratio Lower Upper
117 100
119 4.2 77.2 115.8#
121 0.0 25.5 38.3#

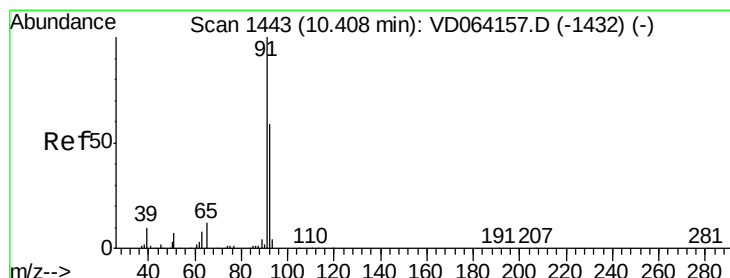
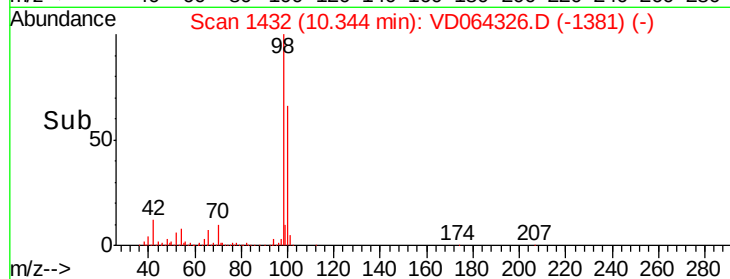
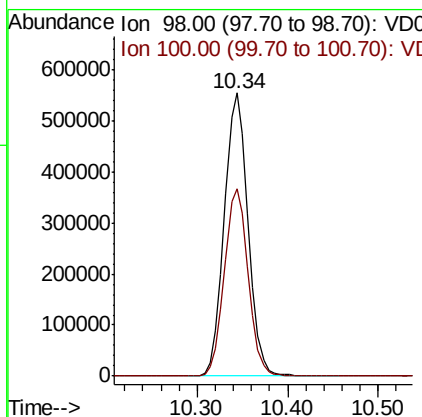
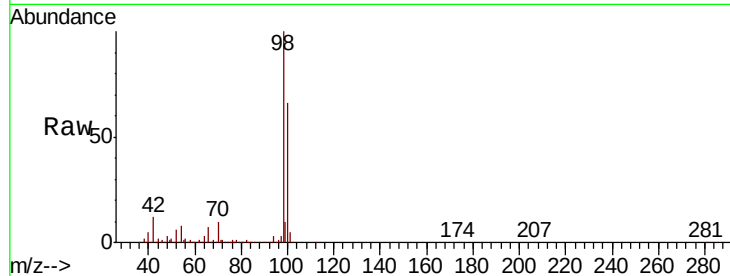




#50
Toluene-d8
Concen: 53.235 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

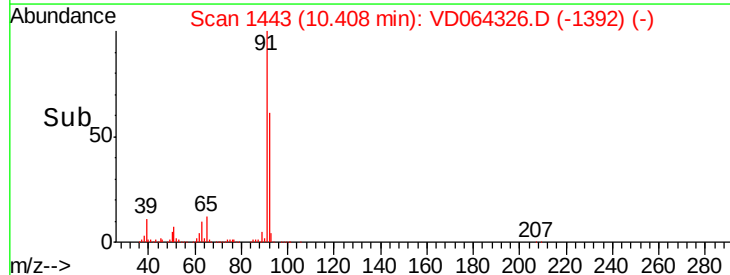
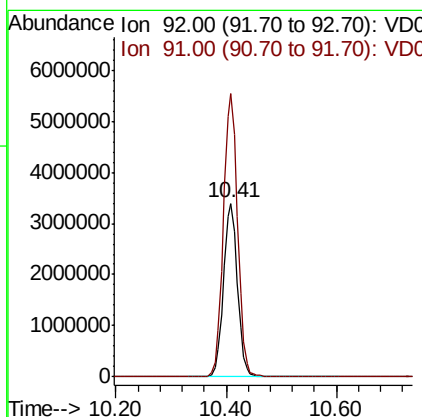
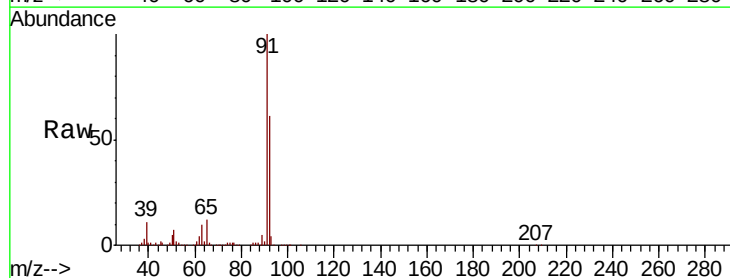
Instrument :
MSVOA_D
ClientSampleId :

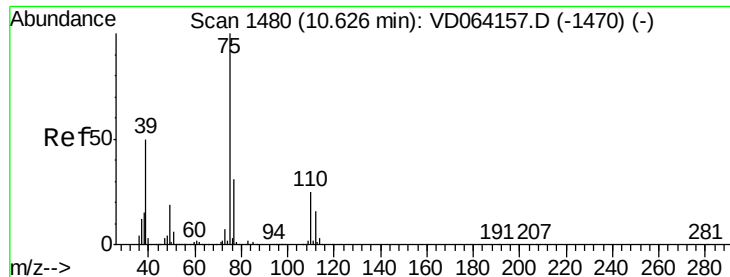
Tot Ion: 98 Resp: 1007170
Ion Ratio Lower Upper
98 100
100 66.4 52.6 78.8



#52
Toluene
Concen: 416.204 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion: 92 Resp: 6031282
Ion Ratio Lower Upper
92 100
91 166.9 136.4 204.6





#53

t-1,3-Dichloropropene

Concen: 9.377 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.22 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

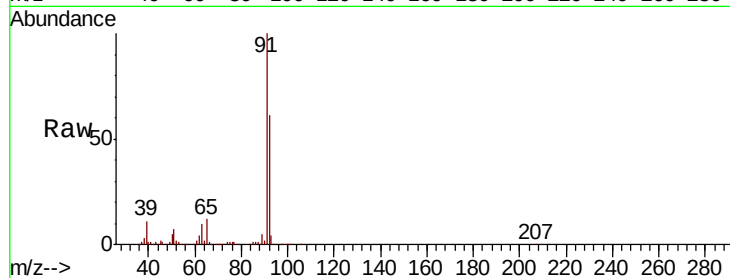
ClientSampleId :

Tot Ion: 75 Resp: 72661

Ion Ratio Lower Upper

75 100

77 152.8 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

60000

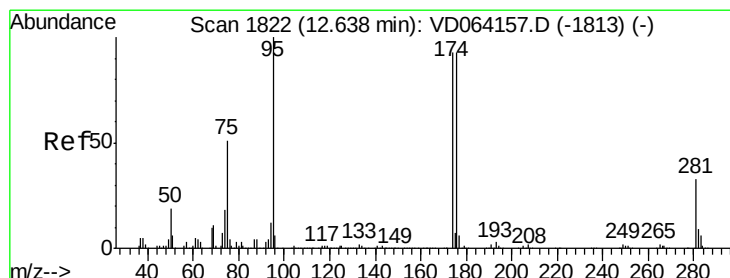
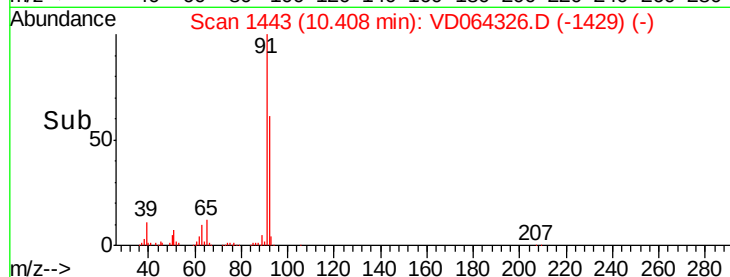
40000

20000

0

10.41

Time-->



#62

4-Bromofluorobenzene

Concen: 52.385 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

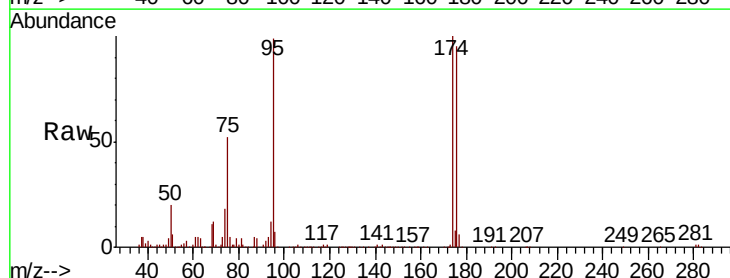
Tgt Ion: 95 Resp: 343222

Ion Ratio Lower Upper

95 100

174 99.0 0.0 183.6

176 97.5 0.0 180.2



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

250000

200000

150000

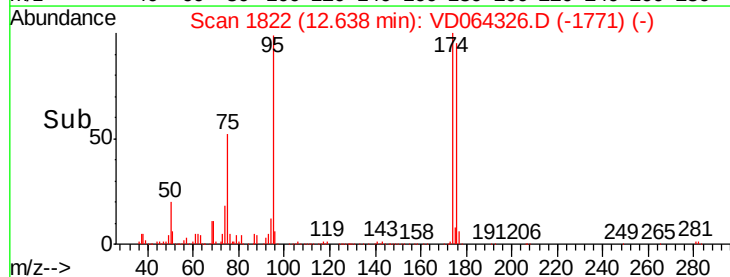
100000

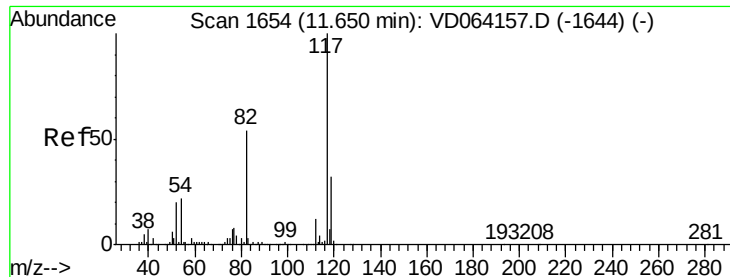
50000

0

12.64

Time-->

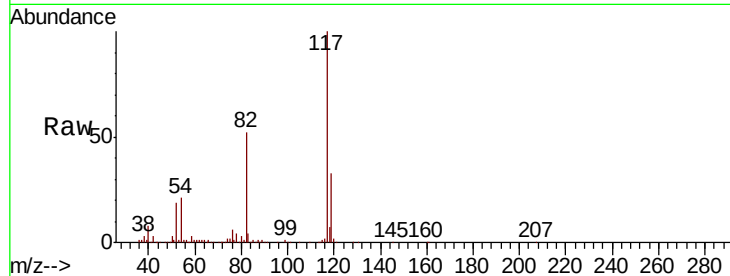




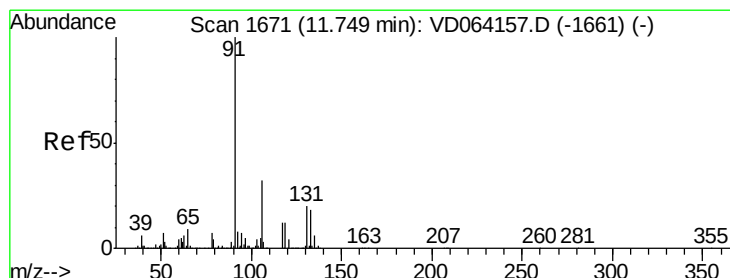
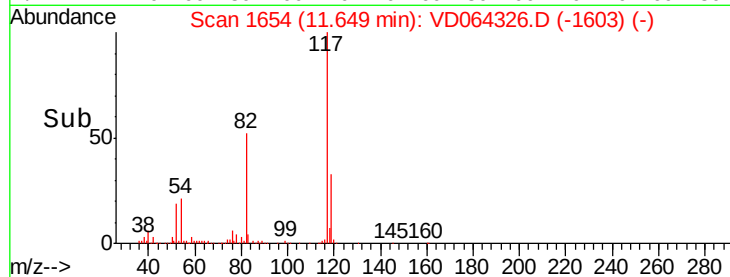
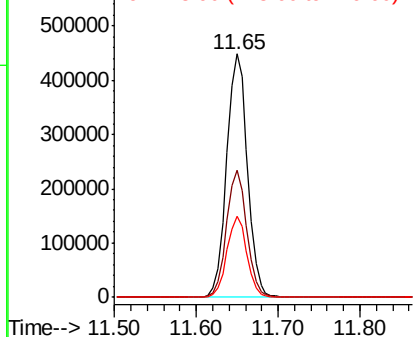
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 791006
Ion Ratio Lower Upper
117 100
82 52.2 42.8 64.2
119 33.1 25.6 38.4

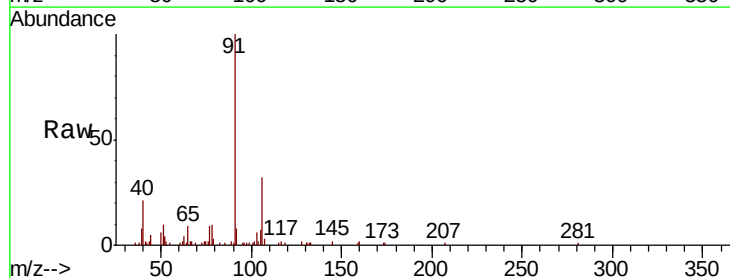


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VDC
Ion 118.90 (118.60 to 119.60): V

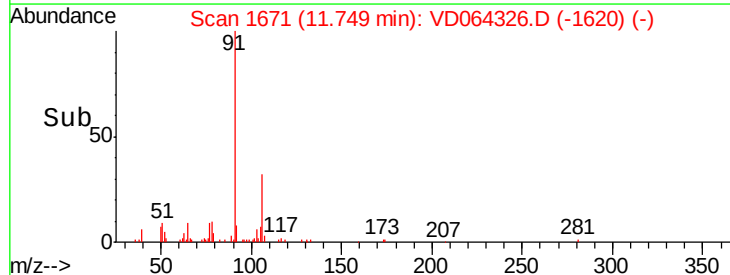
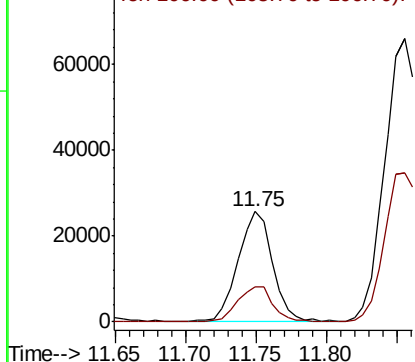


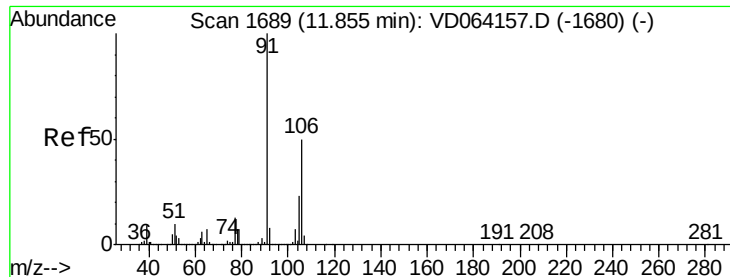
#67
Ethyl Benzene
Concen: 1.522 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion: 91 Resp: 44285
Ion Ratio Lower Upper
91 100
106 32.1 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.00 (105.70 to 106.70): V

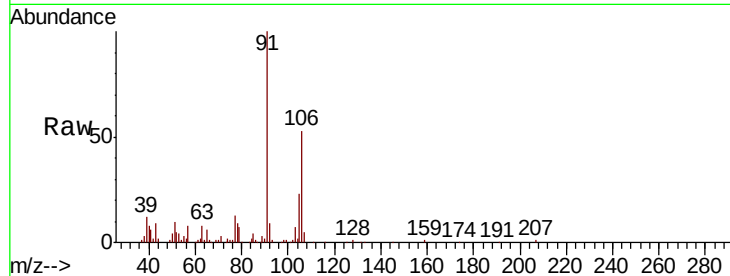




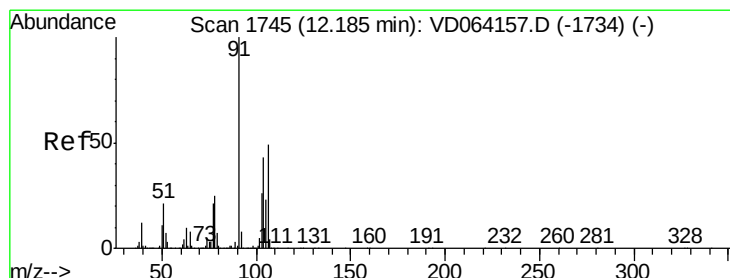
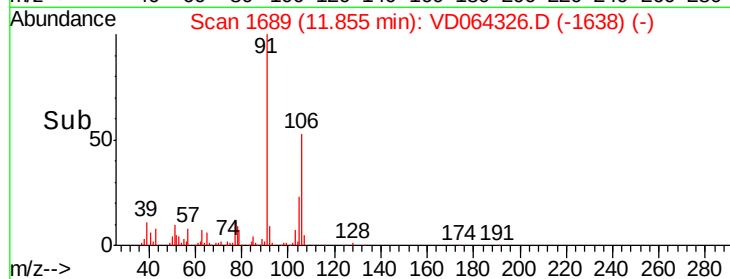
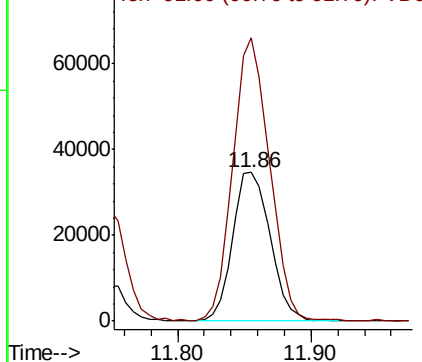
#68
m/p-Xylenes
Concen: 6.091 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 67929
Ion Ratio Lower Upper
106 100
91 186.5 160.3 240.5

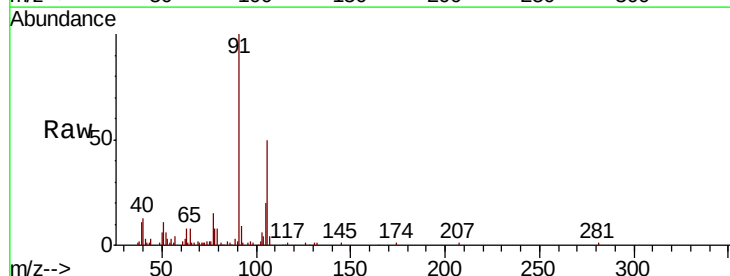


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC

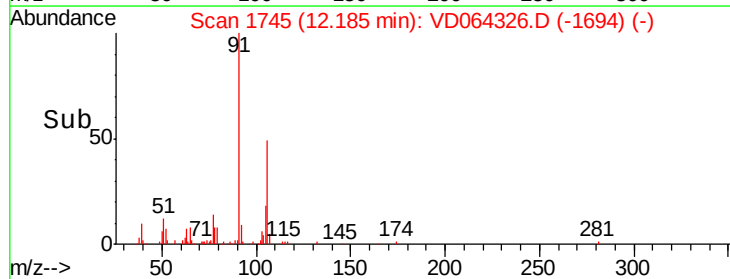
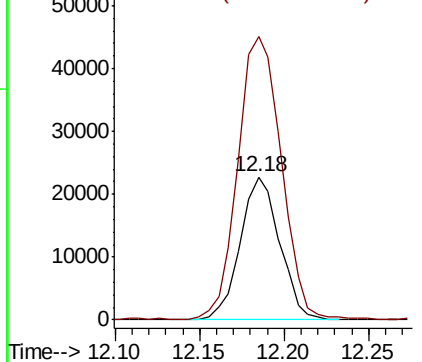


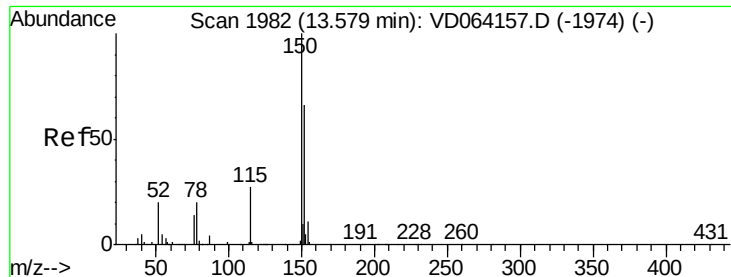
#69
o-Xylene
Concen: 3.575 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion:106 Resp: 36978
Ion Ratio Lower Upper
106 100
91 219.1 105.1 315.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VDC



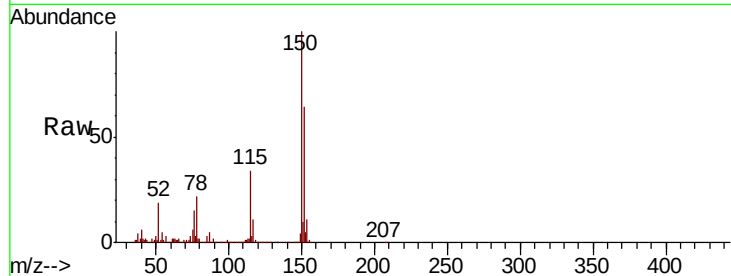


#72

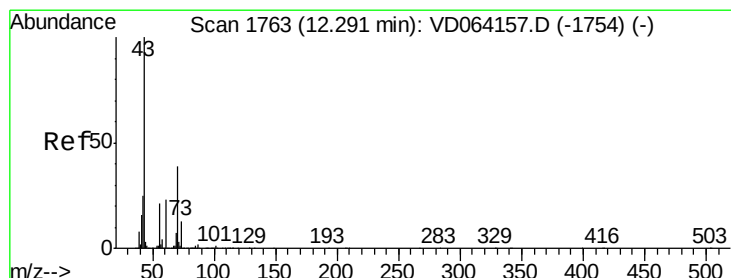
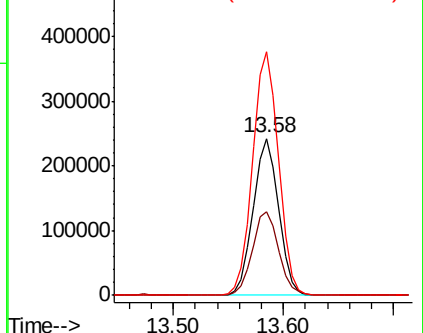
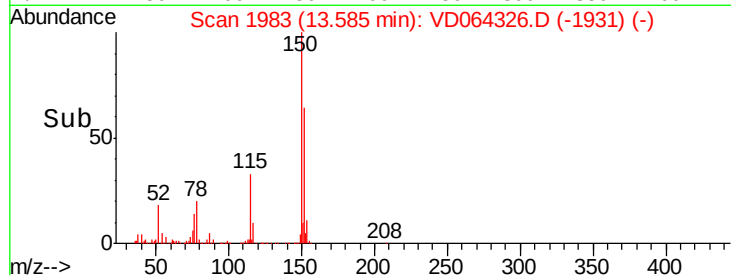
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 392848
Ion Ratio Lower Upper
152 100
115 55.5 27.4 82.2
150 157.9 0.0 351.6



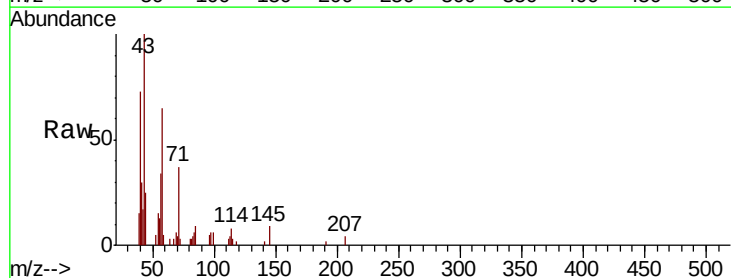
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



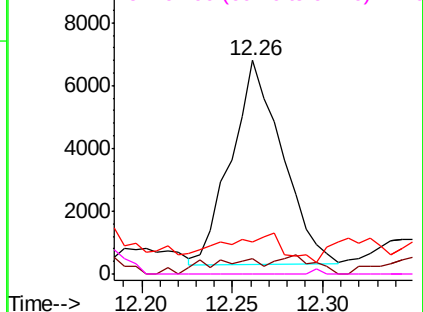
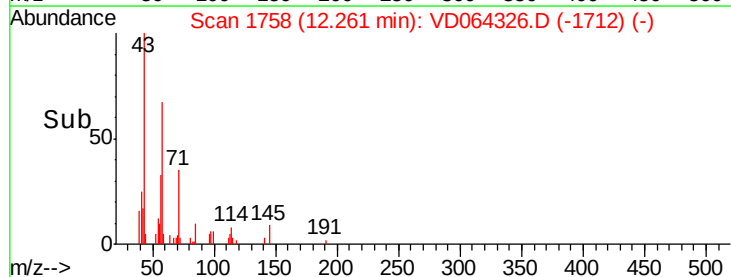
#74

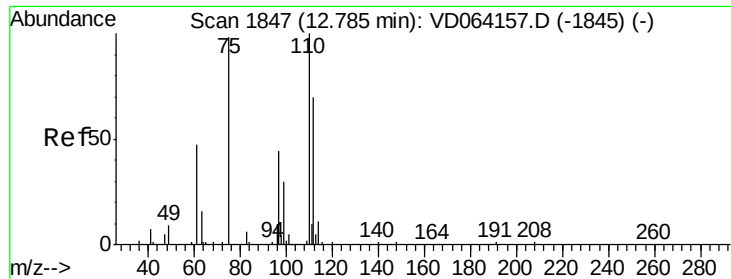
N-amil acetate
Concen: 1.872 ug/l
RT: 12.26 min Scan# 1758
Delta R.T. -0.03 min
Lab File: VD064326.D
Acq: 21 Nov 2019 15:59

Tgt Ion: 43 Resp: 12745
Ion Ratio Lower Upper
43 100
70 2.2 32.4 48.6#
55 0.0 17.9 26.9#
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: 55.269 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

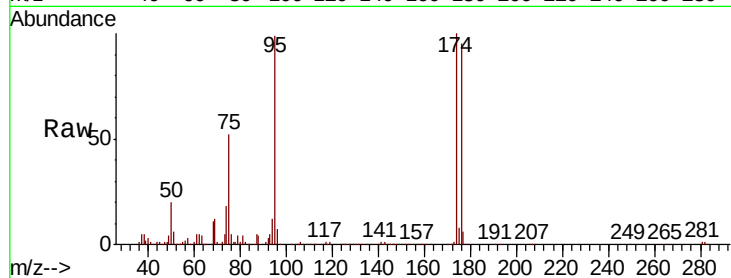
ClientSampleId :

Tot Ion: 75 Resp: 174885

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

120000

100000

80000

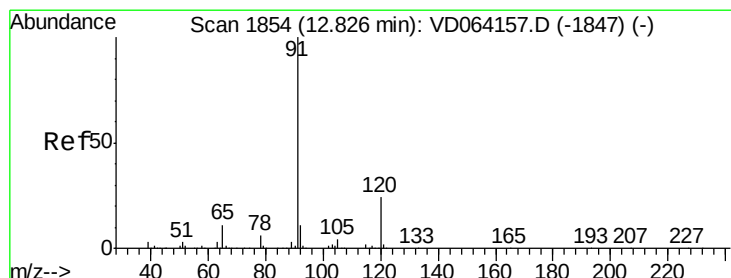
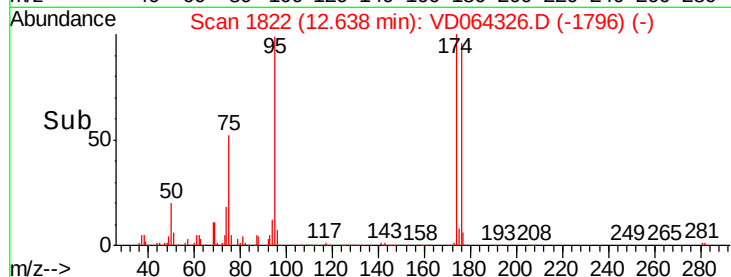
60000

40000

20000

0

Time-->



#78

n-propylbenzene

Concen: 1.475 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064326.D

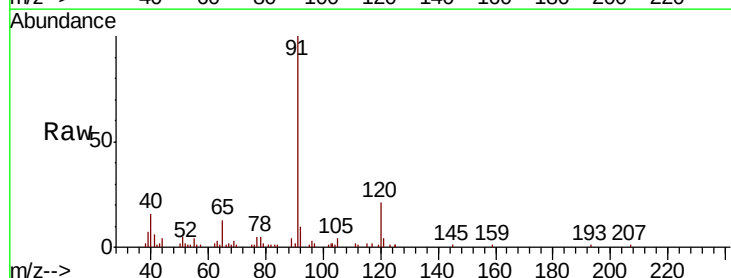
Acq: 21 Nov 2019 15:59

Tgt Ion: 91 Resp: 48609

Ion Ratio Lower Upper

91 100

120 23.6 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC

12.83

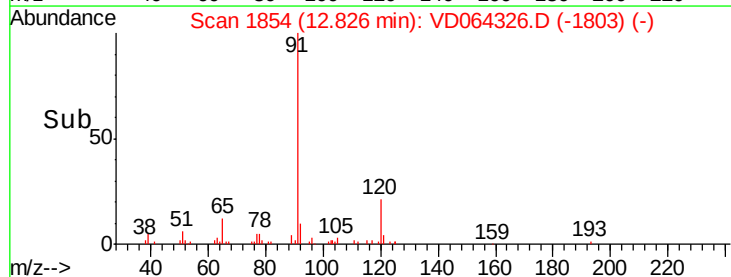
30000

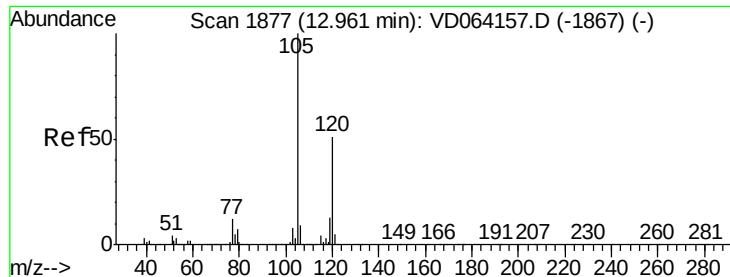
20000

10000

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 2.510 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

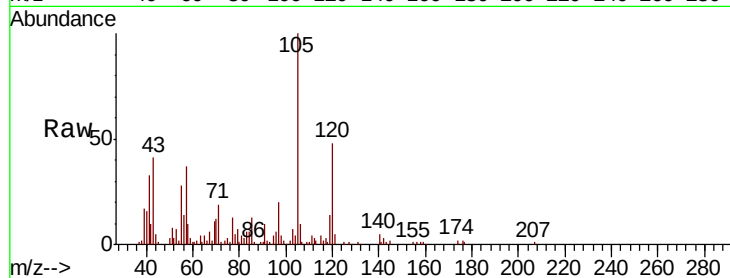
ClientSampled :

Tot Ion:105 Resp: 59472

Ion Ratio Lower Upper

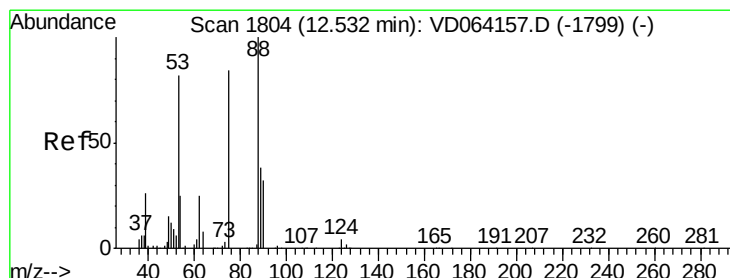
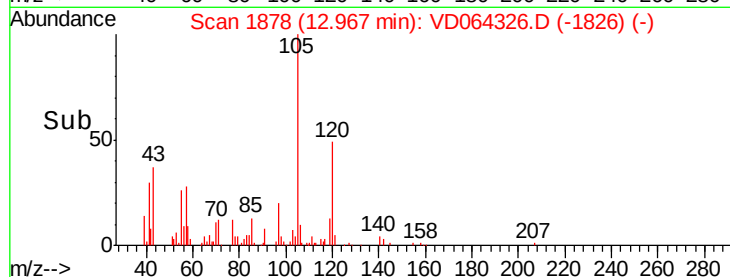
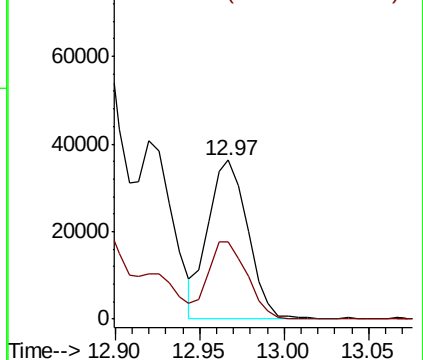
105 100

120 48.3 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: 109.785 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

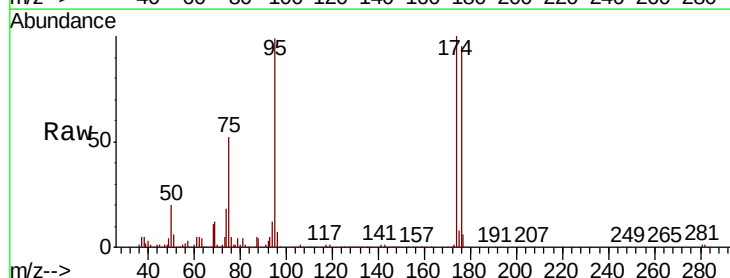
Tgt Ion: 75 Resp: 174885

Ion Ratio Lower Upper

75 100

53 0.2 79.4 119.0#

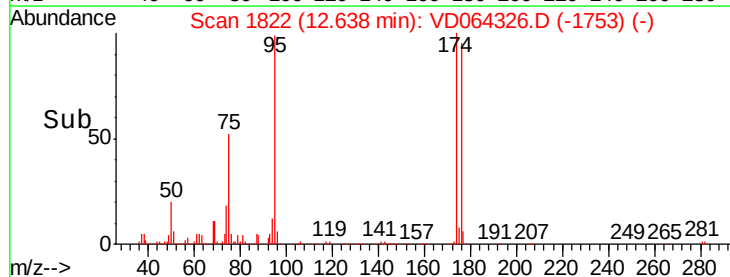
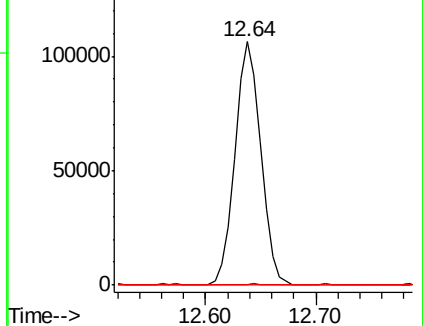
89 0.0 36.6 55.0#

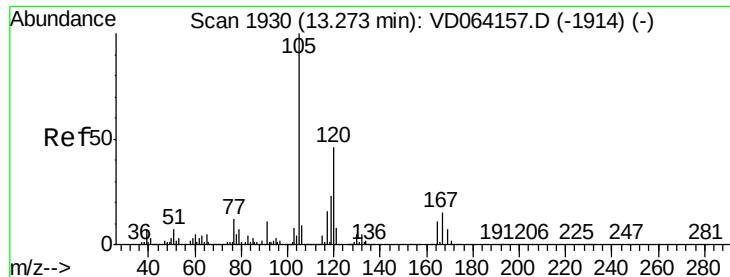


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

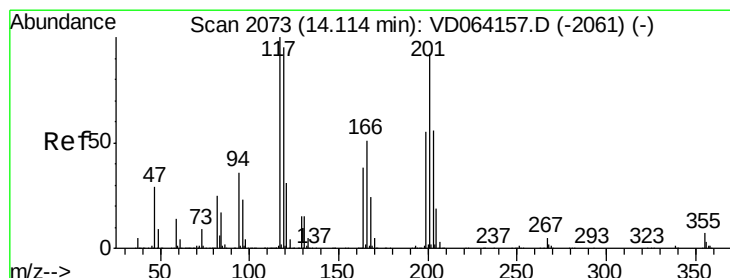
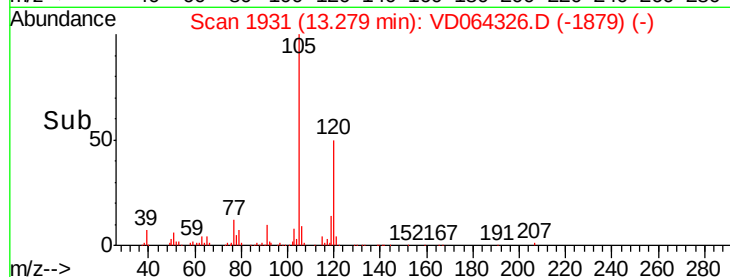
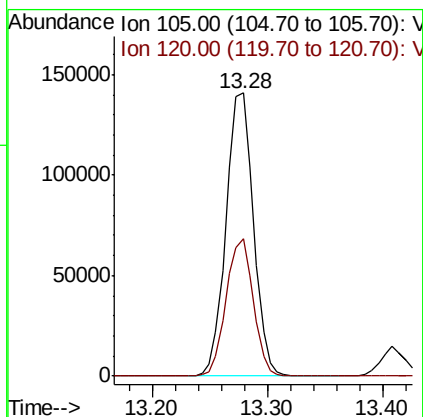
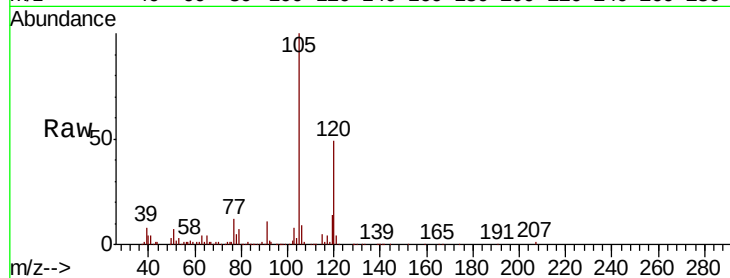




#84
 1,2,4-Trimethylbenzene
 Concen: 9.945 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

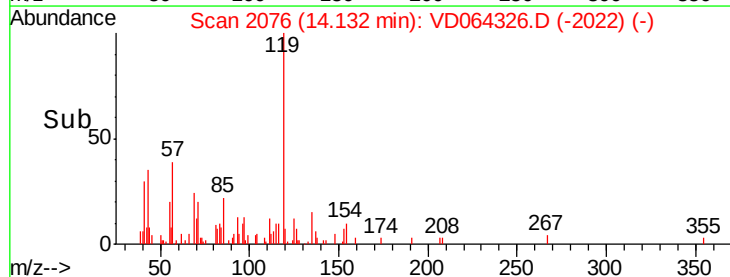
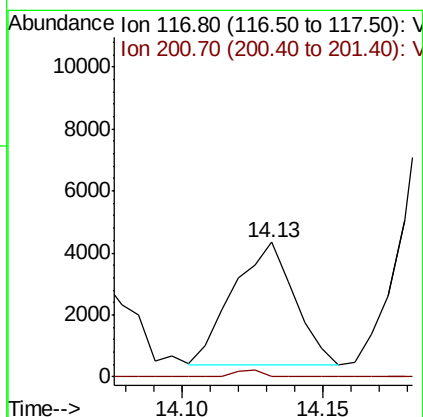
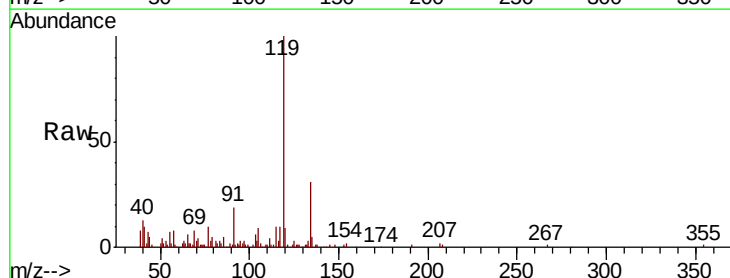
Instrument :
 MSVOA_D
 ClientSampleId :

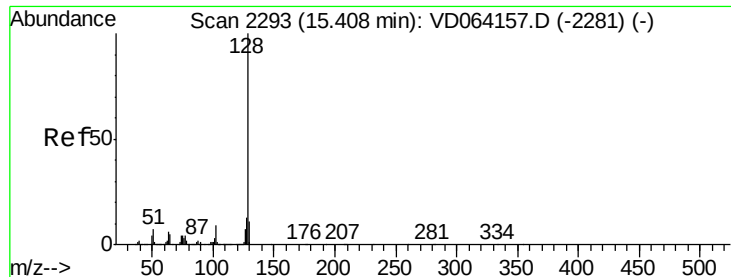
Tot Ion:105 Resp: 232622
 Ion Ratio Lower Upper
 105 100
 120 48.0 23.3 69.8



#90
 Hexachloroethane
 Concen: 1.214 ug/l
 RT: 14.13 min Scan# 2076
 Delta R.T. 0.02 min
 Lab File: VD064326.D
 Acq: 21 Nov 2019 15:59

Tgt Ion:117 Resp: 5987
 Ion Ratio Lower Upper
 117 100
 201 2.3 45.8 137.4#





#95

Naphthalene

Concen: 12.096 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD064326.D

Acq: 21 Nov 2019 15:59

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:128 Resp: 168358

Ion Ratio Lower Upper

128 100

127 12.8 10.5 15.7

129 10.8 8.6 13.0

