

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111119\
 Data File : VD064191.D
 Acq On : 11 Nov 2019 21:35
 Operator : VA/SY
 Sample : K5789-02
 Misc : 6.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 02:52:12 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	587499	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	994772	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	998015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	518221	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	290725	60.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.34%	
35) Dibromofluoromethane	7.92	113	308644	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	
50) Toluene-d8	10.34	98	1225078	56.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.74%	
62) 4-Bromofluorobenzene	12.64	95	470850	63.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.24%	

Target Compounds

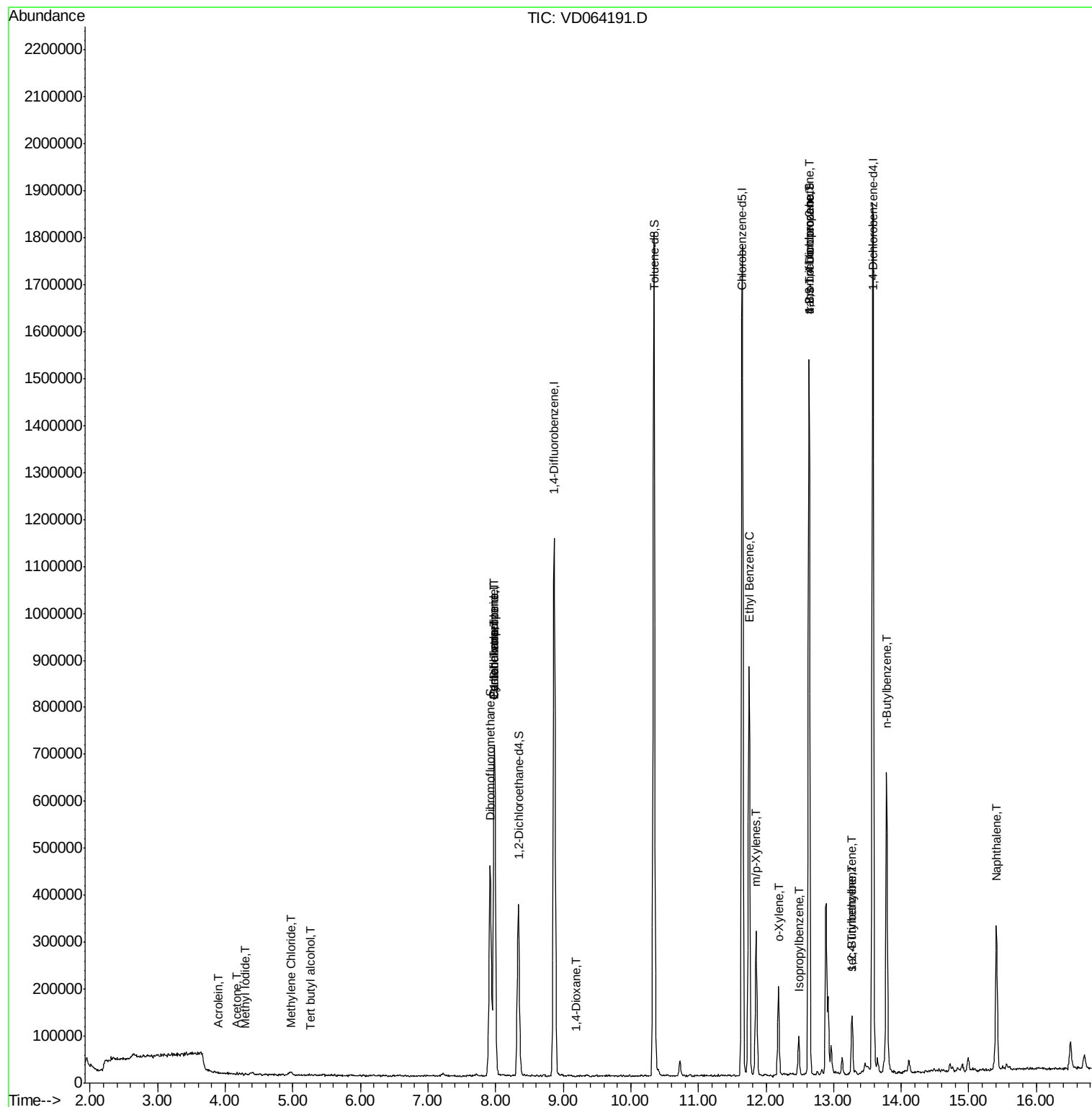
						Qvalue
10) Methyl Iodide	4.30	142	55	2.040	ug/l #	41
11) Tert butyl alcohol	5.26	59	917	2.717	ug/l #	1
13) Acrolein	3.90	56	386	1.352	ug/l #	77
16) Acetone	4.17	43	1451	1.268	ug/l #	84
20) Methylene Chloride	4.97	84	6957	1.203	ug/l #	79
31) Cyclohexane	7.98	56	12850	1.355	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	40452	4.406	ug/l #	50
38) Carbon Tetrachloride	7.98	117	52483	5.342	ug/l #	15
49) 1,4-Dioxane	9.18	88	72	1.834	ug/l #	1
67) Ethyl Benzene	11.75	91	625702	17.045	ug/l	97
68) m/p-Xylenes	11.86	106	94837	6.740	ug/l	99
69) o-Xylene	12.18	106	52507	4.024	ug/l	99
73) Isopropylbenzene	12.48	105	52467	1.379	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	243881	58.427	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	243881	116.059	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	69866	2.264	ug/l	97
85) sec-Butylbenzene	13.27	105	69866	1.887	ug/l #	55
89) n-Butylbenzene	13.78	91	61614	1.938	ug/l #	41
95) Naphthalene	15.41	128	286767	15.619	ug/l	99

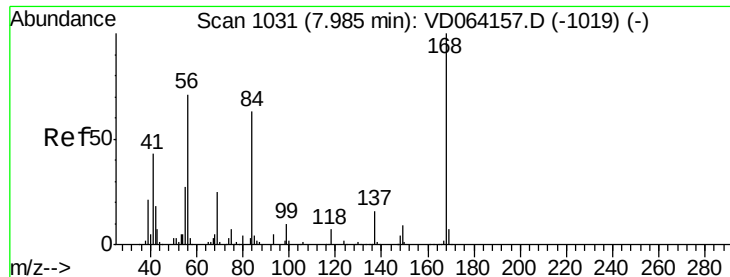
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 12 02:43:24 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

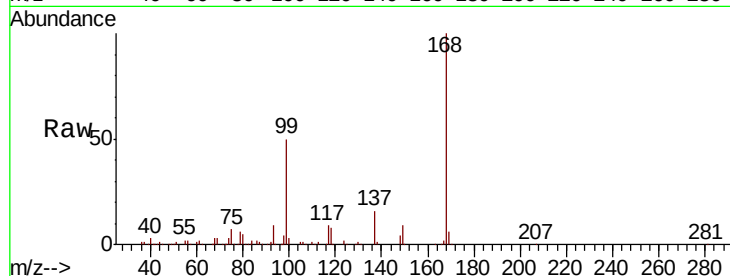
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 587499

Ion Ratio Lower Upper

168 100

99 50.2 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

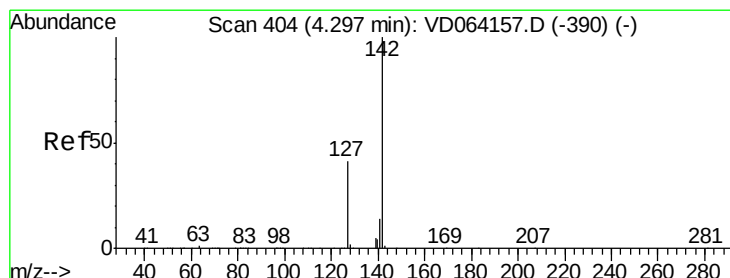
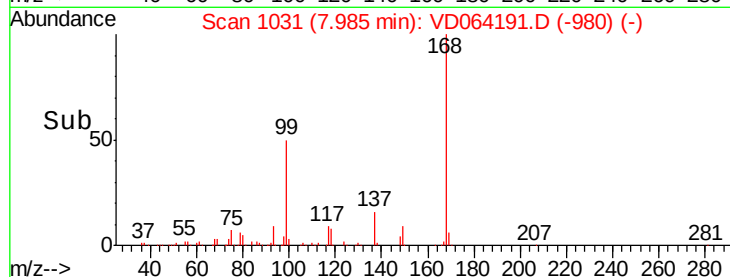
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.040 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

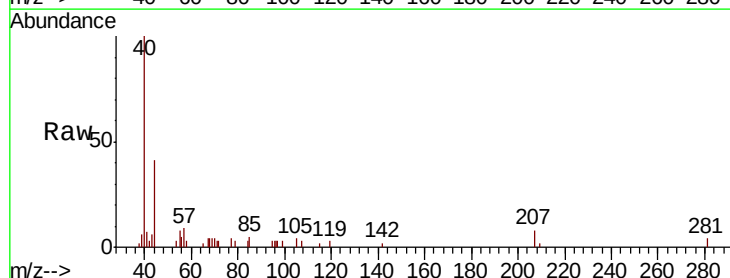
Tgt Ion:142 Resp: 55

Ion Ratio Lower Upper

142 100

127 0.0 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

4.30

200

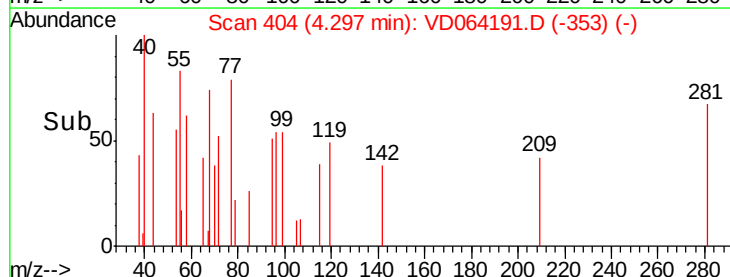
150

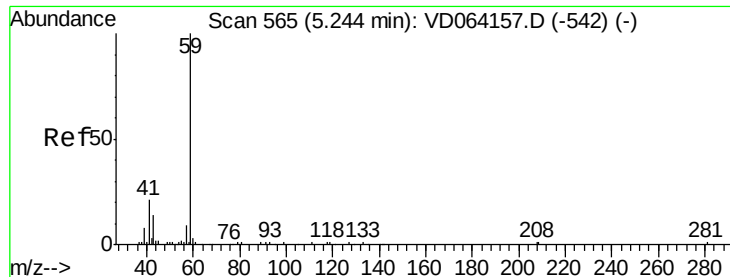
100

50

0

Time-->

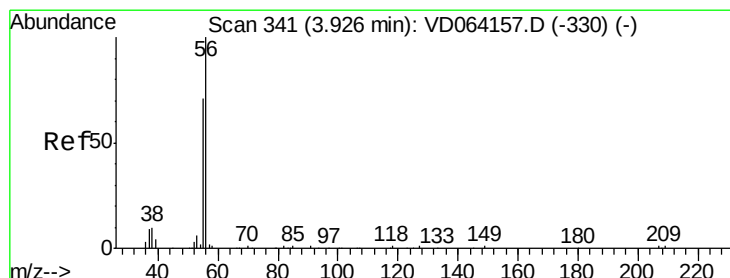
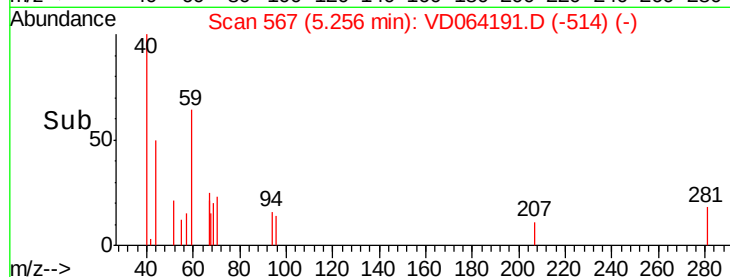
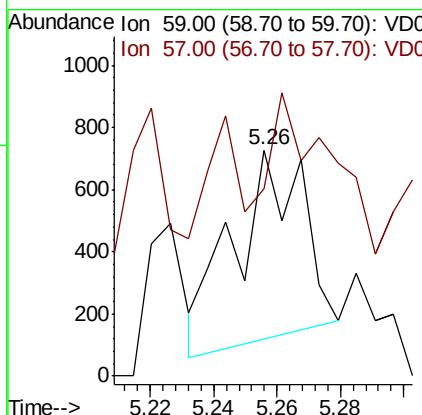
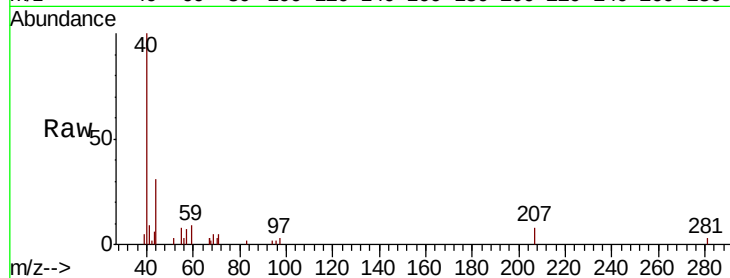




#11
Tert butyl alcohol
Concen: 2.717 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

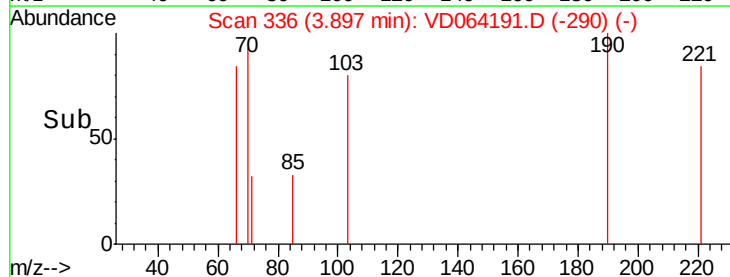
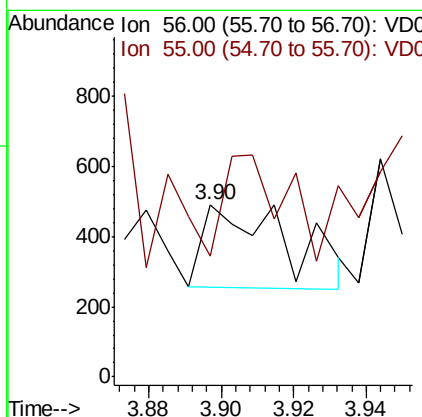
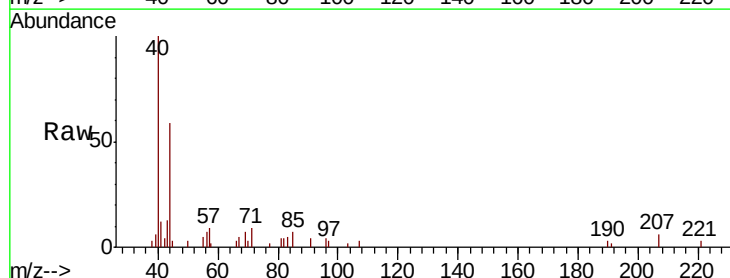
Instrument :
MSVOA_D
ClientSampled :

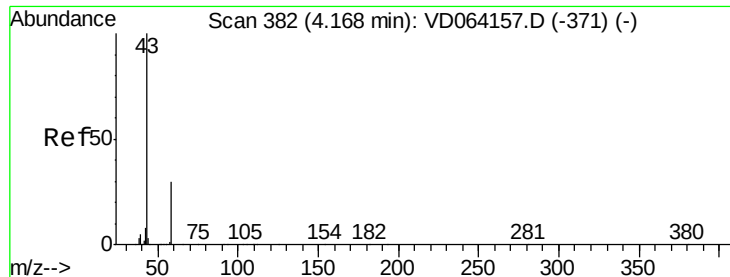
Tot Ion: 59 Resp: 917
Ion Ratio Lower Upper
59 100
57 74.7 9.4 14.2#



#13
Acrolein
Concen: 1.352 ug/l
RT: 3.90 min Scan# 336
Delta R.T. -0.03 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Tgt Ion: 56 Resp: 386
Ion Ratio Lower Upper
56 100
55 89.4 56.1 84.1#

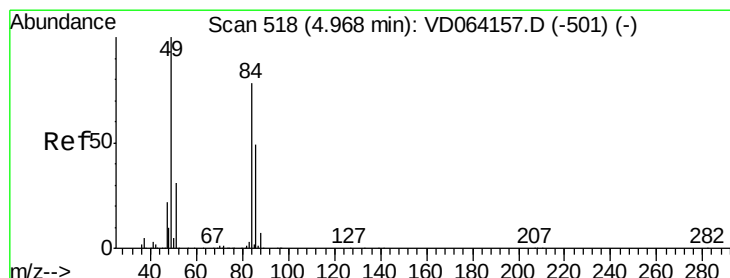
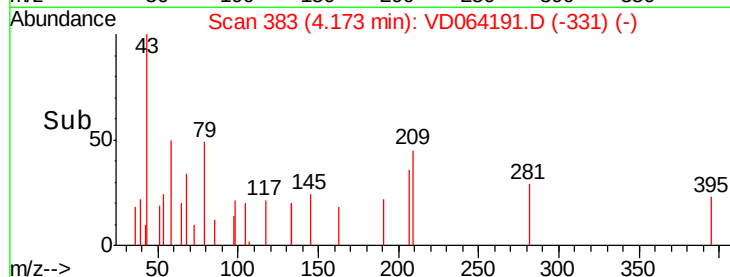
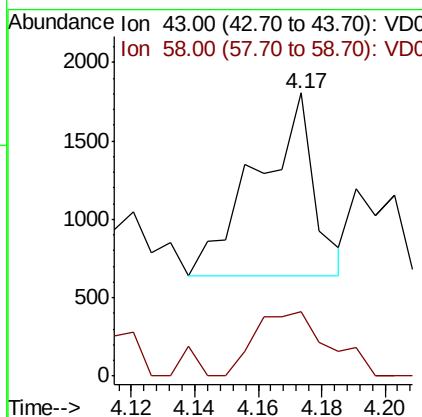
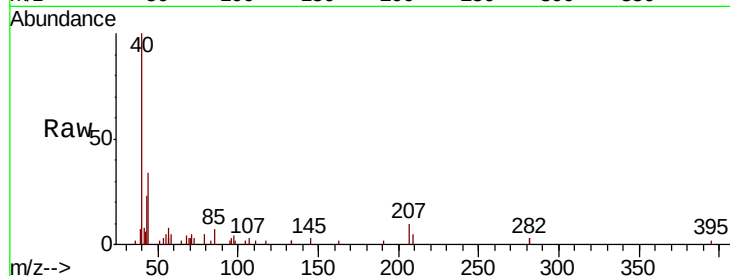




#16
Acetone
Concen: 1.268 ug/l
RT: 4.17 min Scan# 383
Delta R.T. 0.01 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

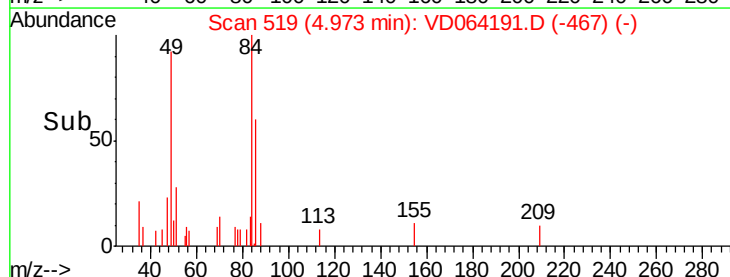
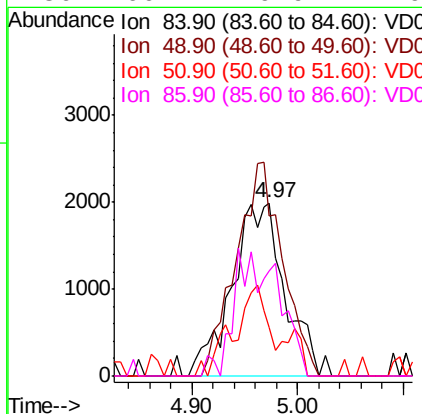
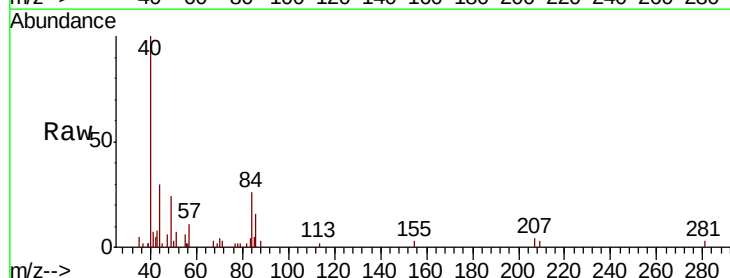
Instrument :
MSVOA_D
ClientSampleId :

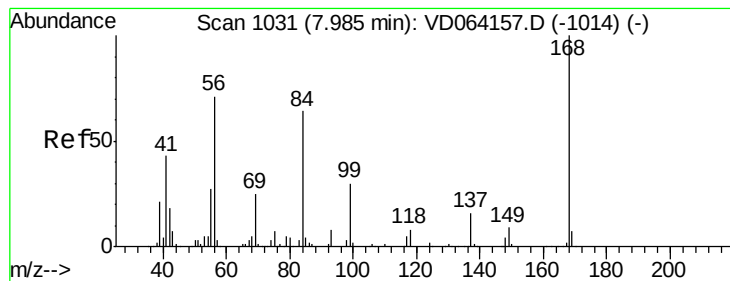
Tot Ion: 43 Resp: 1451
Ion Ratio Lower Upper
43 100
58 21.6 24.1 36.1#



#20
Methylene Chloride
Concen: 1.203 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Tgt Ion: 84 Resp: 6957
Ion Ratio Lower Upper
84 100
49 92.3 102.1 153.1#
51 28.0 32.2 48.2#
86 60.4 49.9 74.9





#31

Cyclohexane

Concen: 1.355 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

ClientSampled :

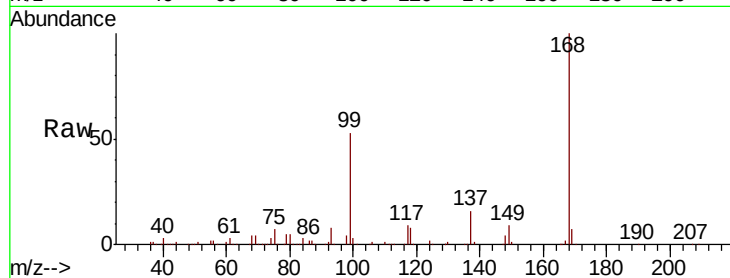
Tot Ion: 56 Resp: 12850

Ion Ratio Lower Upper

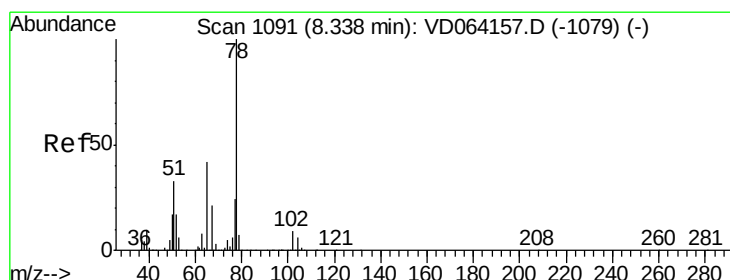
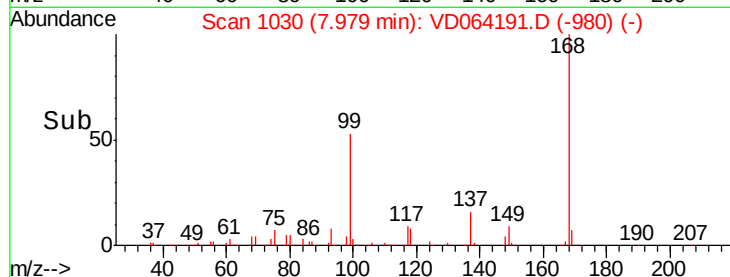
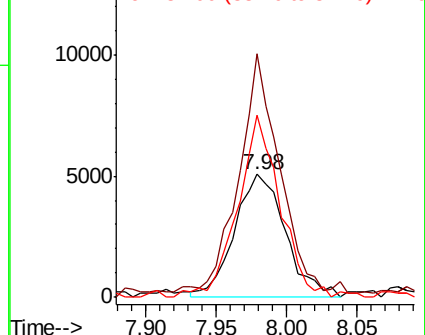
56 100

69 189.5 28.2 42.4#

84 143.7 71.8 107.6#



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: 60.169 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064191.D

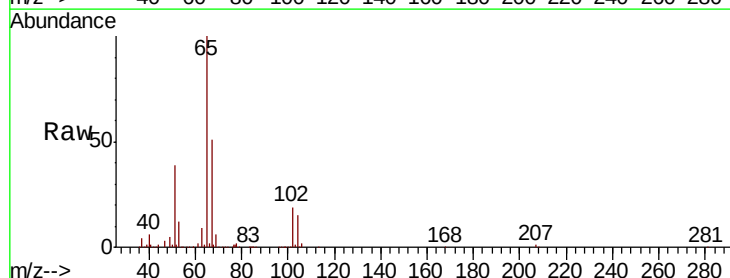
Acq: 11 Nov 2019 21:35

Tgt Ion: 65 Resp: 290725

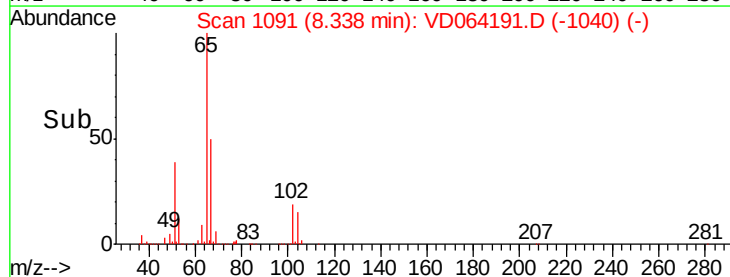
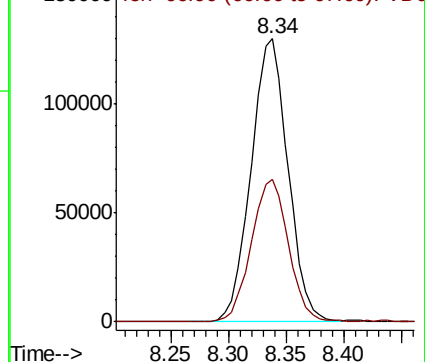
Ion Ratio Lower Upper

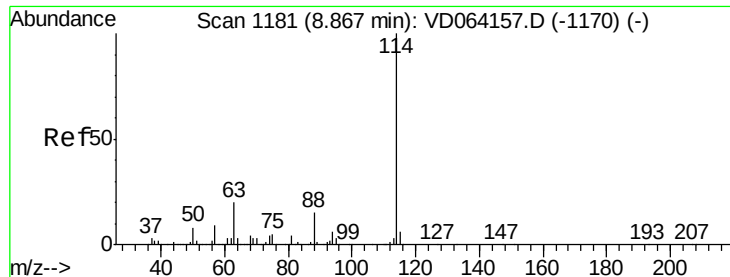
65 100

67 50.1 0.0 104.4



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: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

ClientSampleId :

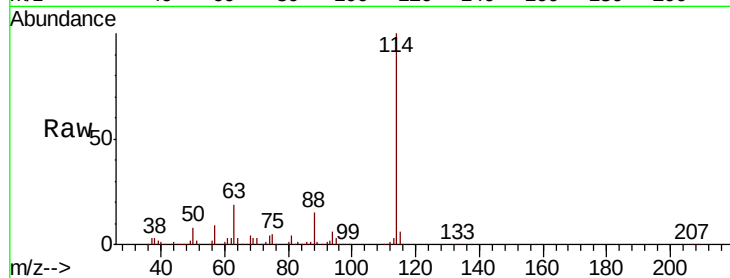
Tot Ion:114 Resp: 994772

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.0

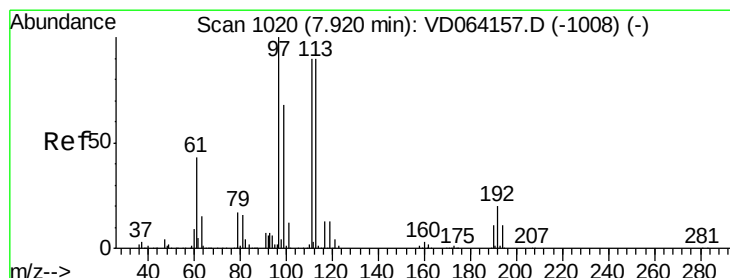
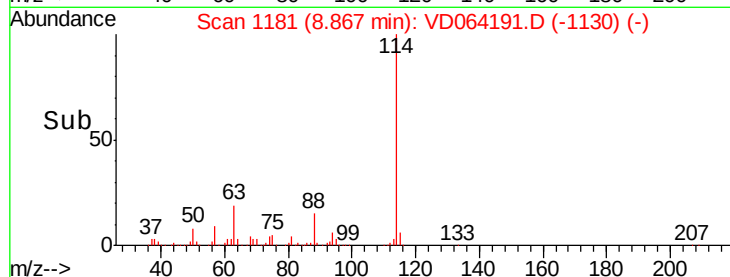
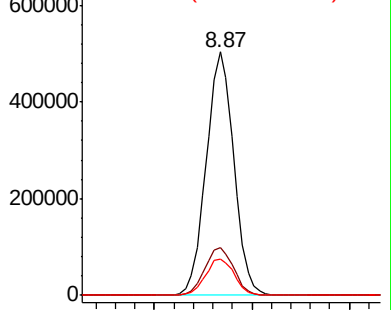
88 14.7 0.0 30.2



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: 54.052 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

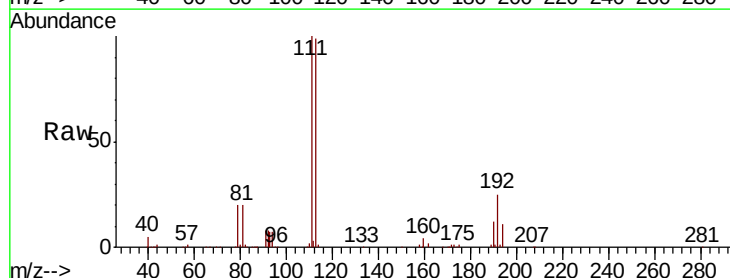
Tgt Ion:113 Resp: 308644

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

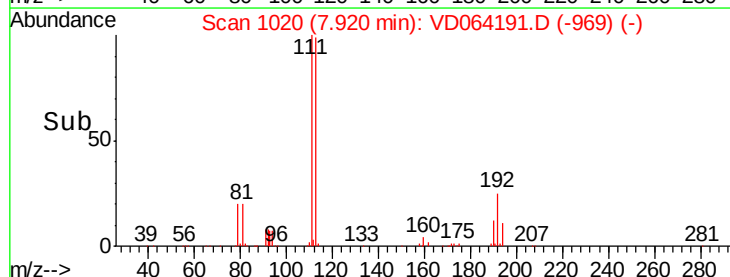
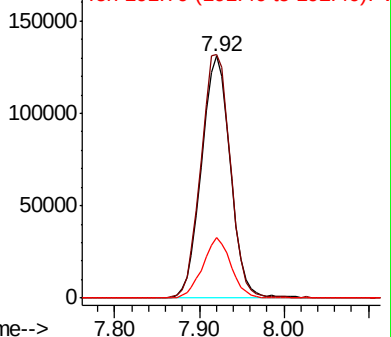
192 24.3 18.8 28.2

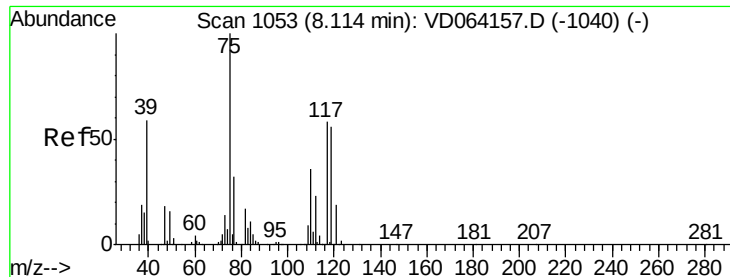


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

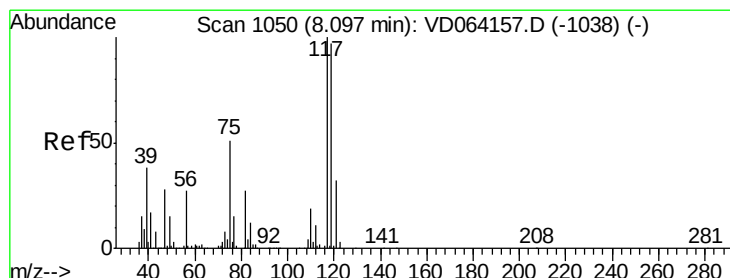
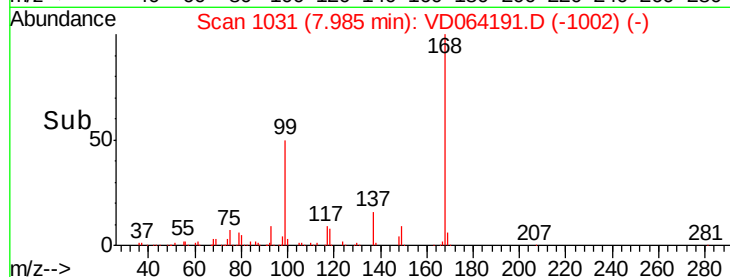
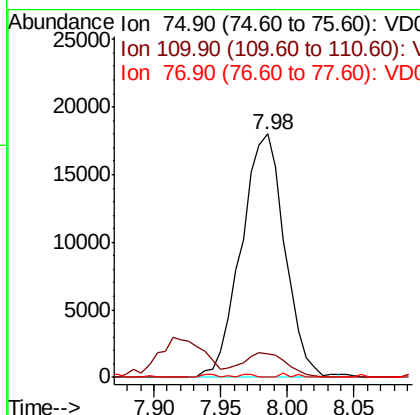
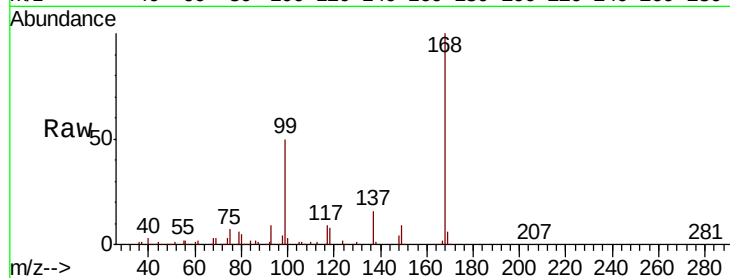




#36
 1,1-Dichloropropene
 Concen: 4.406 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064191.D
 Acq: 11 Nov 2019 21:35

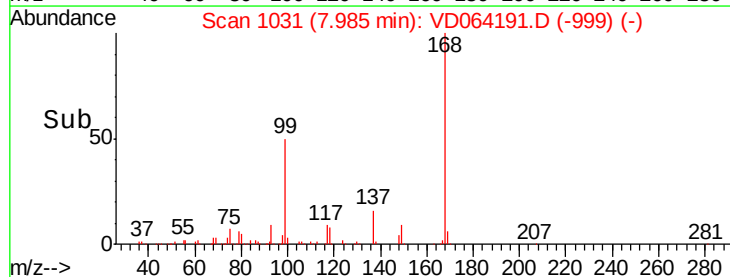
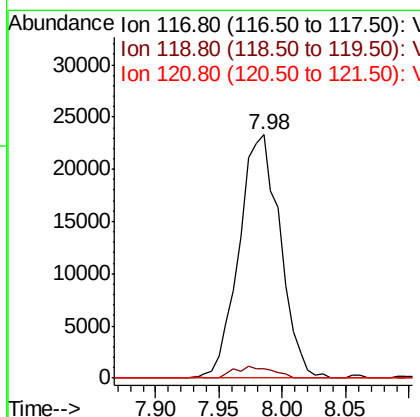
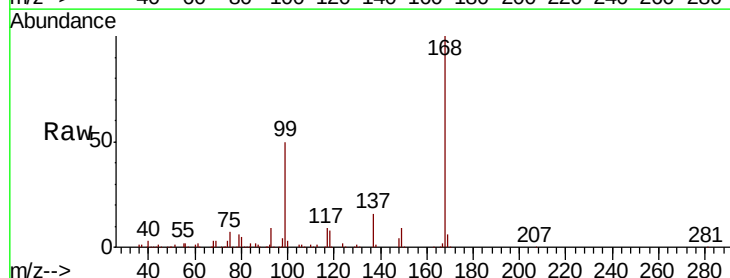
Instrument :
 MSVOA_D
 ClientSampled :

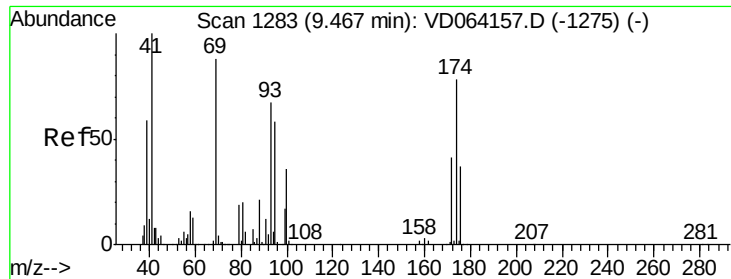
Tot Ion	75	Resp	40452
Ion Ratio	100	Lower	Upper
75	100		
110	10.1	18.3	54.9#
77	0.3	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.342 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064191.D
 Acq: 11 Nov 2019 21:35

Tgt Ion	117	Resp	52483
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	3.8	77.2	115.8#
121	0.0	25.5	38.3#

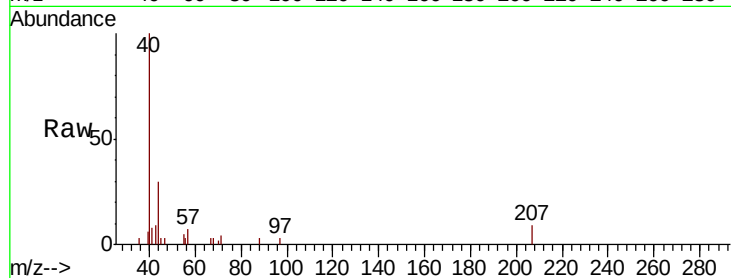




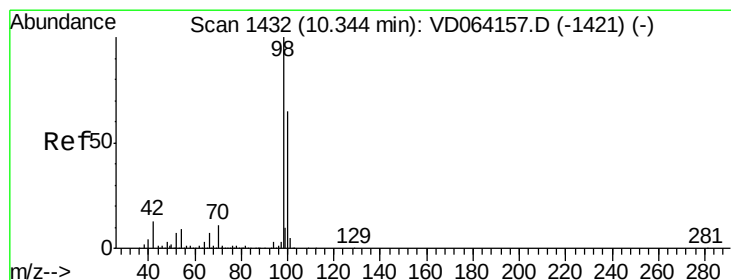
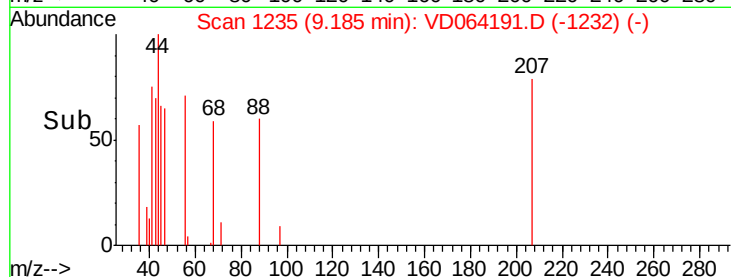
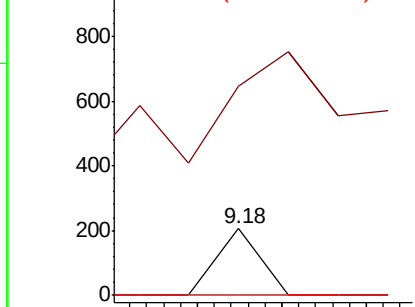
#49
1,4-Dioxane
Concen: 1.834 ug/l
RT: 9.18 min Scan# 1235
Delta R.T. -0.28 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 600.0 29.8 44.8#
58 0.0 58.1 87.1#

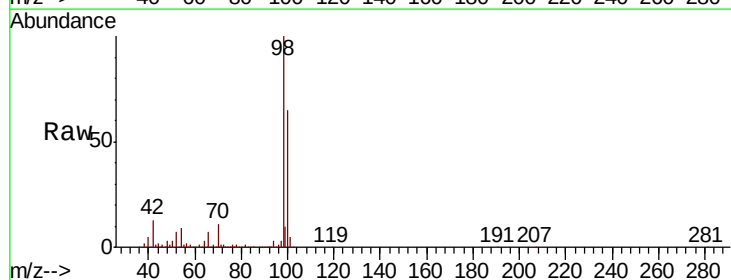


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

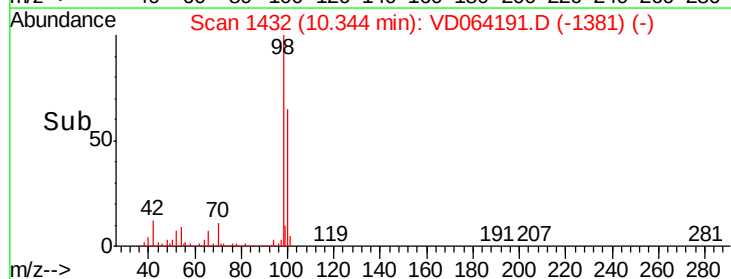
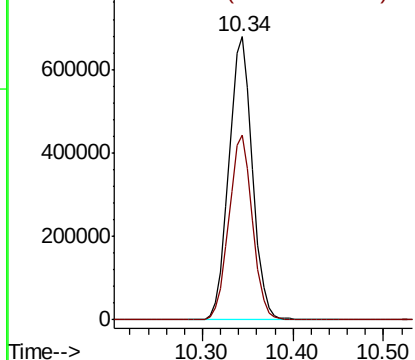


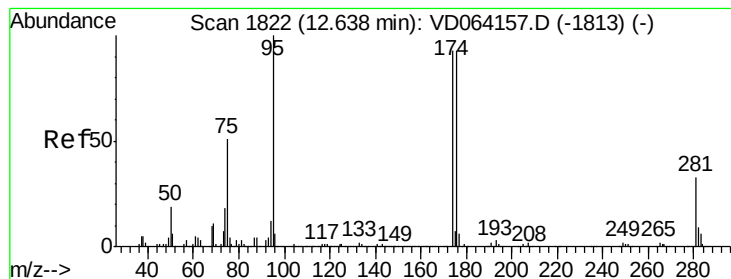
#50
Toluene-d8
Concen: 56.872 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Tgt Ion: 98 Resp: 1225078
Ion Ratio Lower Upper
98 100
100 65.1 52.6 78.8



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





#62

4-Bromofluorobenzene

Concen: 63.118 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

ClientSampleId :

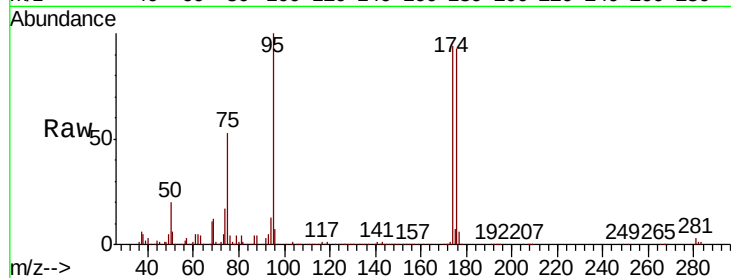
Tot Ion: 95 Resp: 470850

Ion Ratio Lower Upper

95 100

174 91.9 0.0 183.6

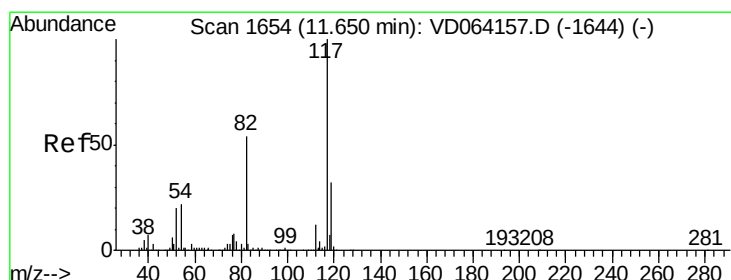
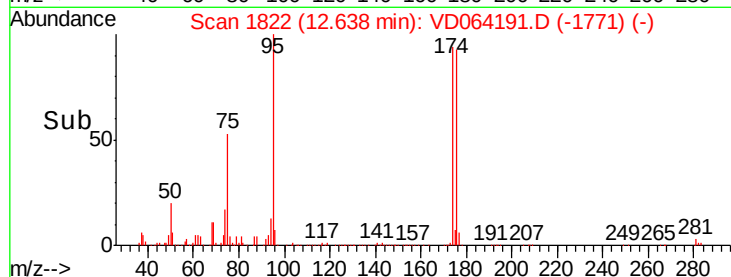
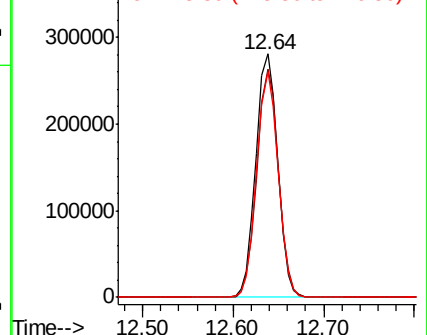
176 91.5 0.0 180.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

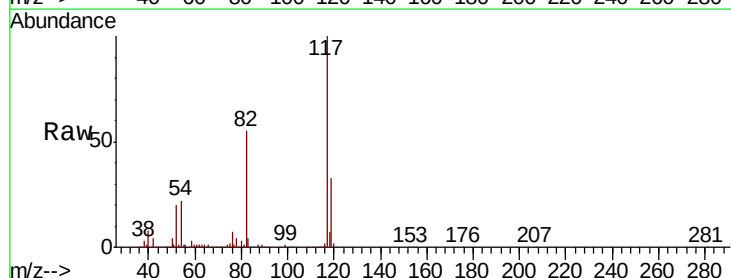
Tgt Ion: 117 Resp: 998015

Ion Ratio Lower Upper

117 100

82 54.6 42.8 64.2

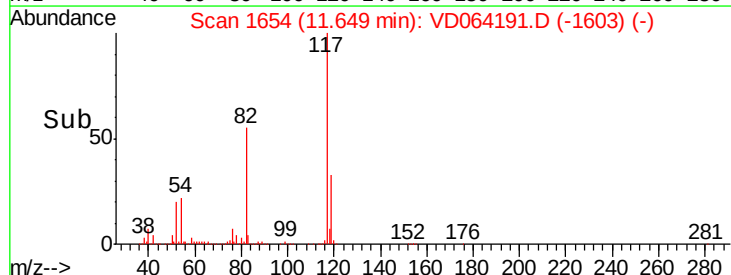
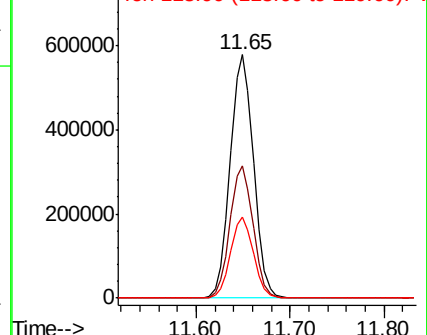
119 33.2 25.6 38.4

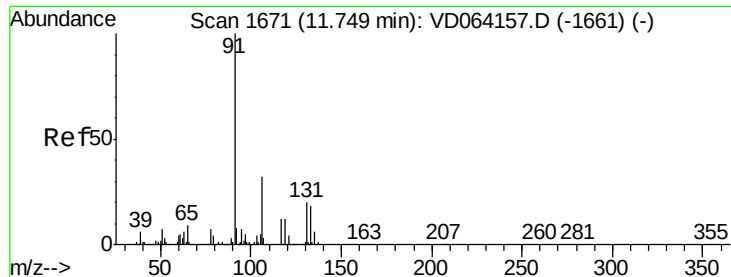


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 17.045 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

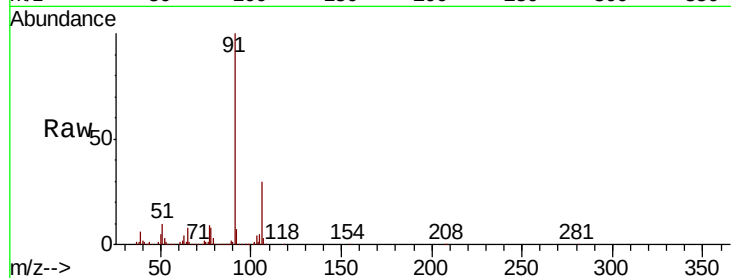
ClientSampleId :

Tot Ion: 91 Resp: 625702

Ion Ratio Lower Upper

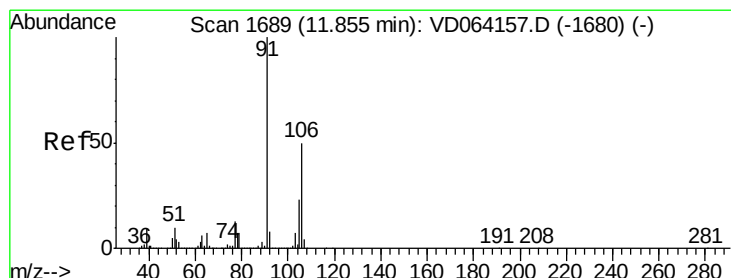
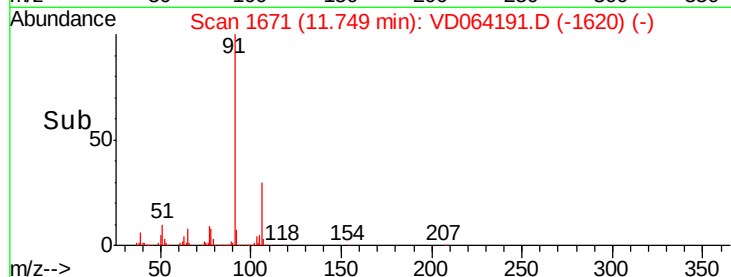
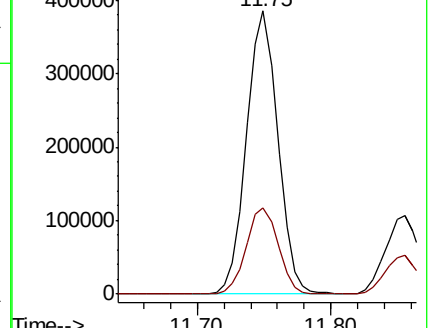
91 100

106 30.5 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 6.740 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064191.D

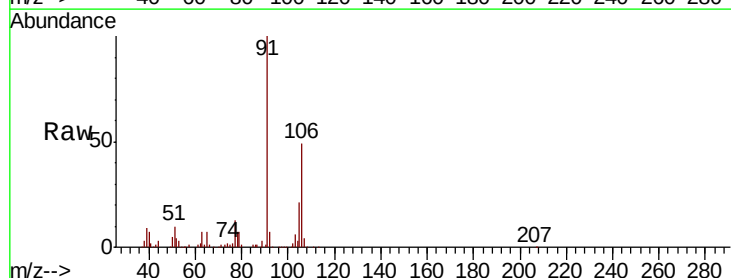
Acq: 11 Nov 2019 21:35

Tgt Ion: 106 Resp: 94837

Ion Ratio Lower Upper

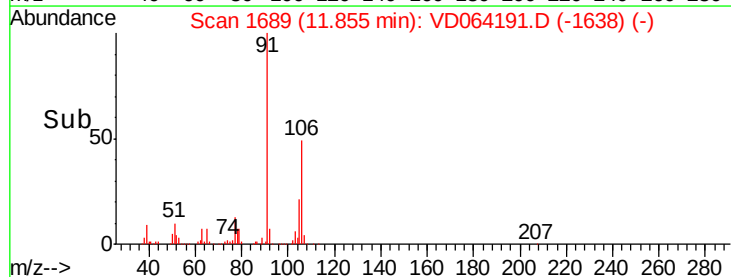
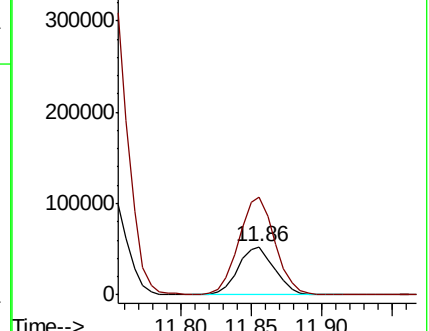
106 100

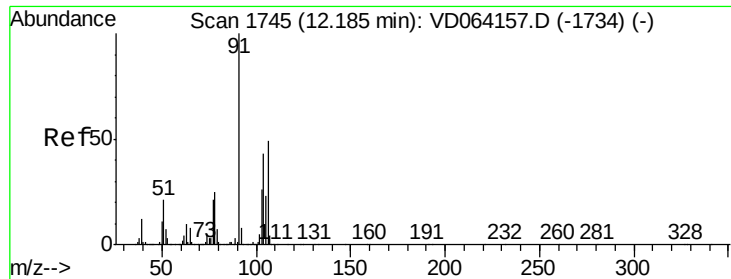
91 201.9 160.3 240.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

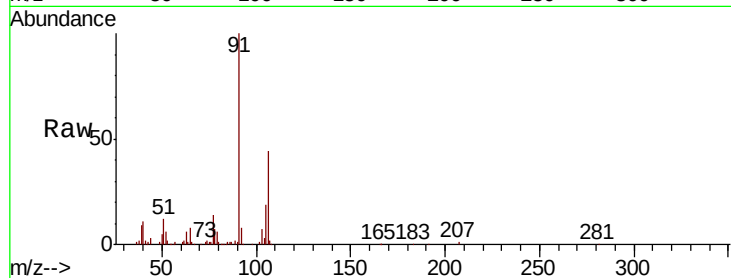




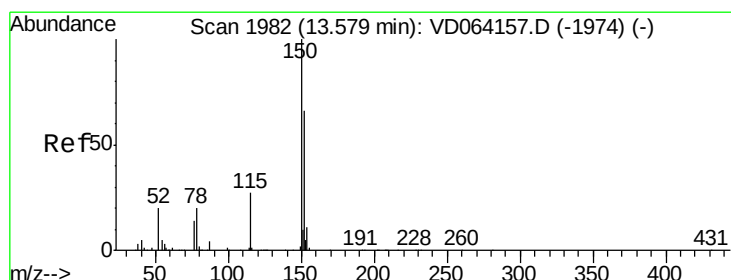
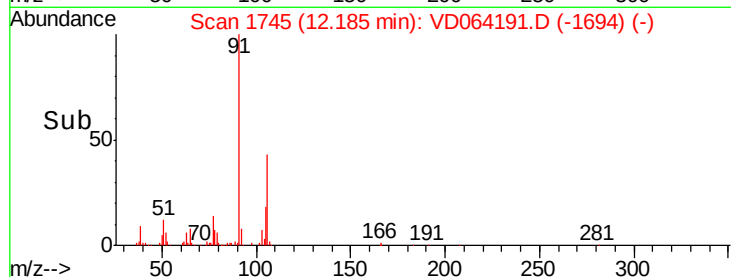
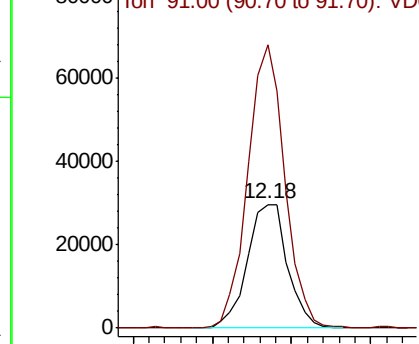
#69
o-Xylene
Concen: 4.024 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 52507
Ion Ratio Lower Upper
106 100
91 211.0 105.1 315.3

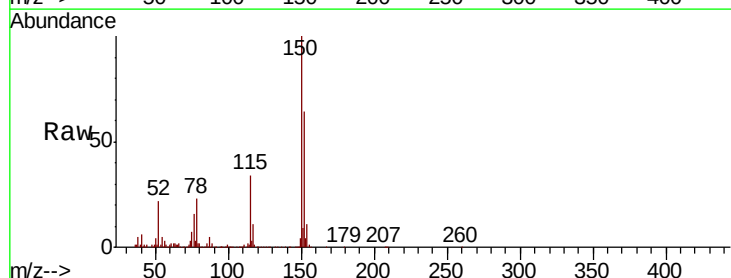


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

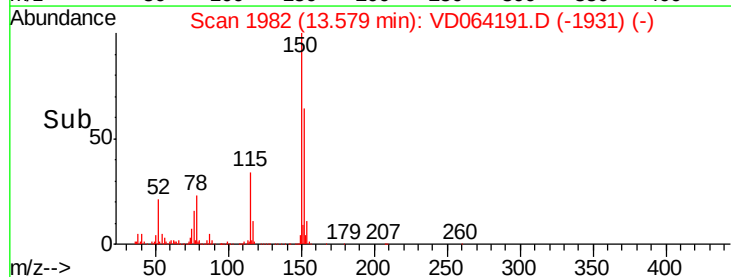
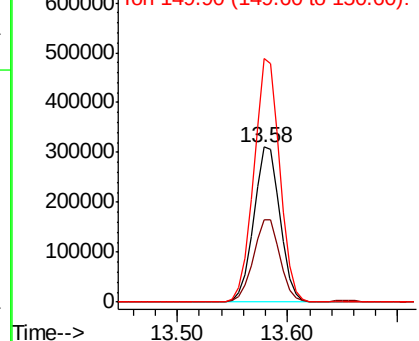


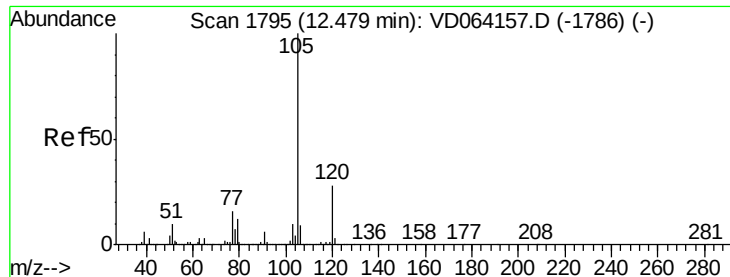
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Tgt Ion:152 Resp: 518221
Ion Ratio Lower Upper
152 100
115 54.5 27.4 82.2
150 155.3 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





#73

Isopropylbenzene

Concen: 1.379 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

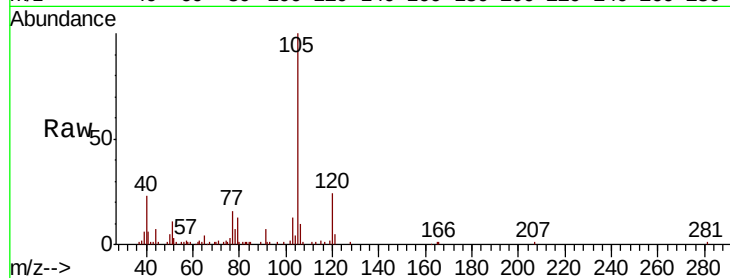
ClientSampleId :

Tot Ion:105 Resp: 52467

Ion Ratio Lower Upper

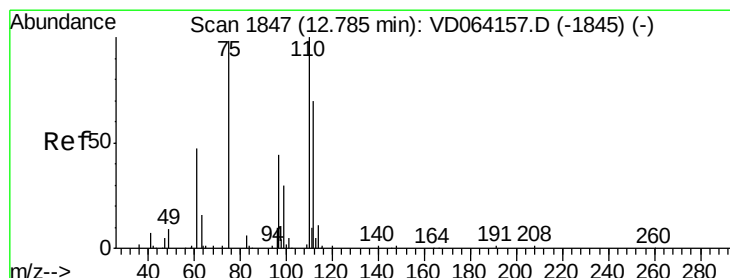
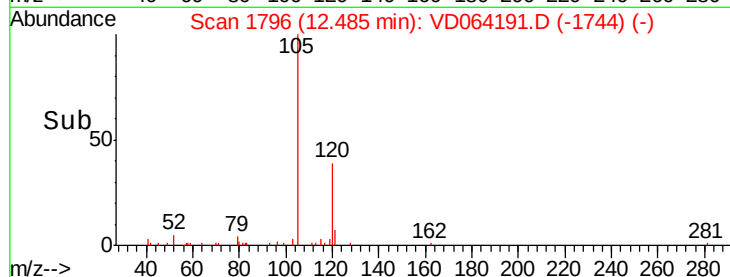
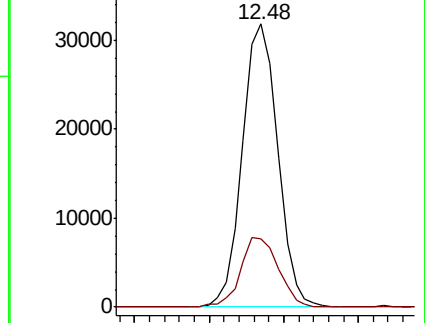
105 100

120 26.0 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 58.427 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064191.D

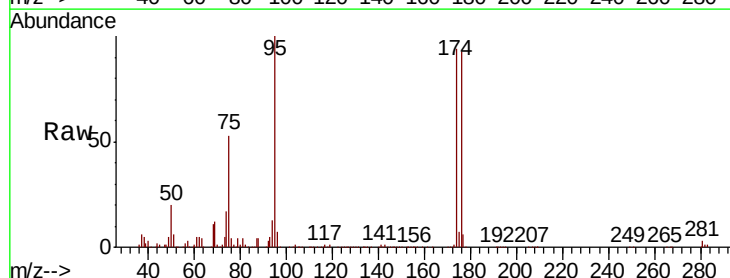
Acq: 11 Nov 2019 21:35

Tgt Ion: 75 Resp: 243881

Ion Ratio Lower Upper

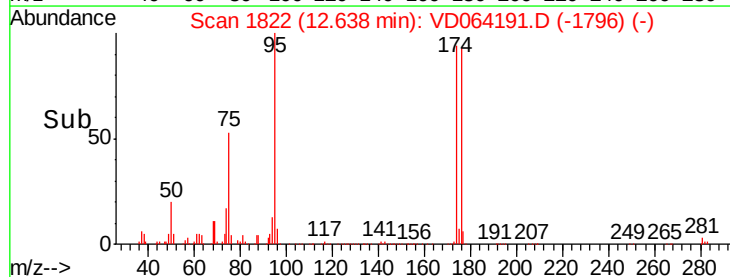
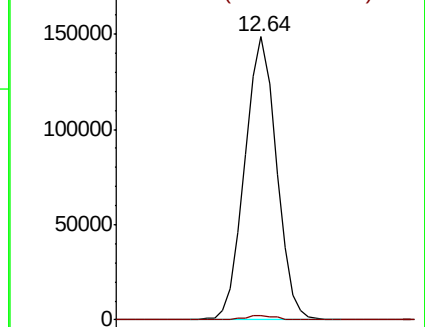
75 100

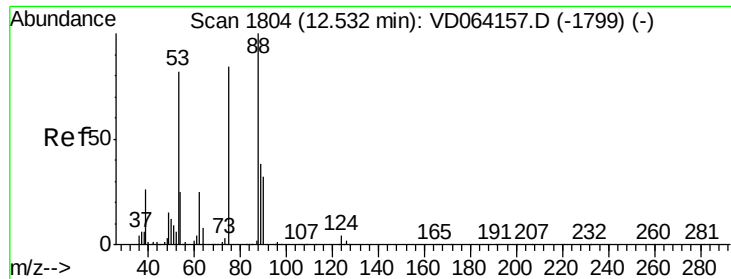
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 116.059 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

ClientSampleId :

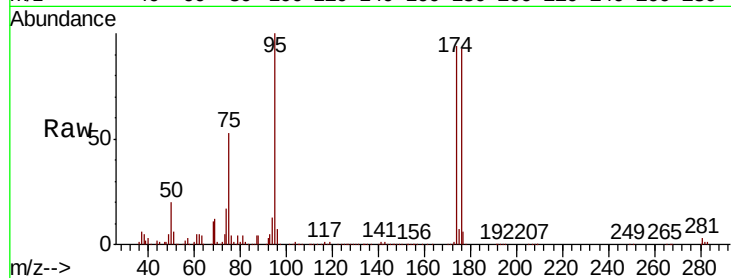
Tot Ion: 75 Resp: 243881

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

89 0.1 36.6 55.0#

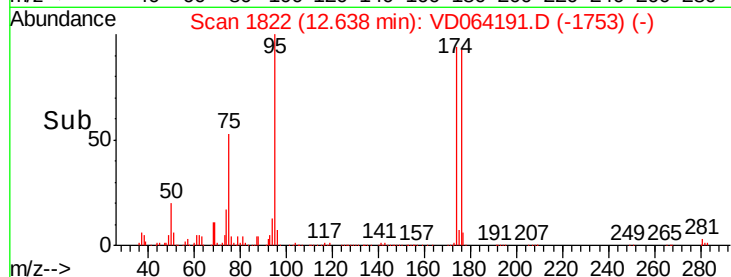


Abundance Ion 74.90 (74.60 to 75.60): VDC

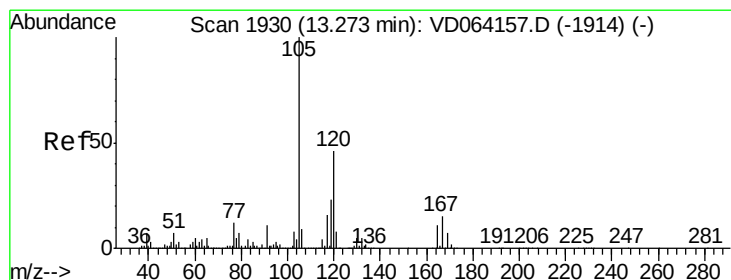
Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

12.64



Time-->



#84

1,2,4-Trimethylbenzene

Concen: 2.264 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VD064191.D

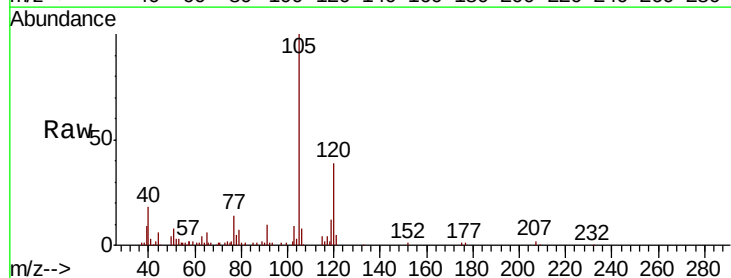
Acq: 11 Nov 2019 21:35

Tgt Ion: 105 Resp: 69866

Ion Ratio Lower Upper

105 100

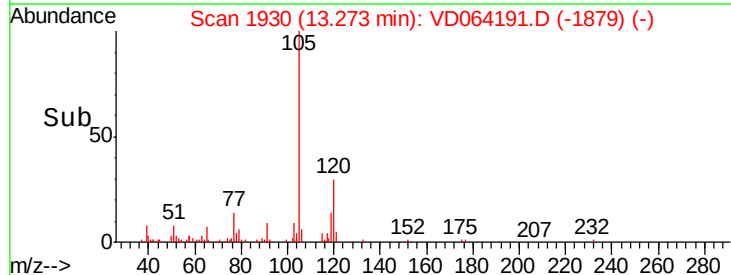
120 44.5 23.3 69.8



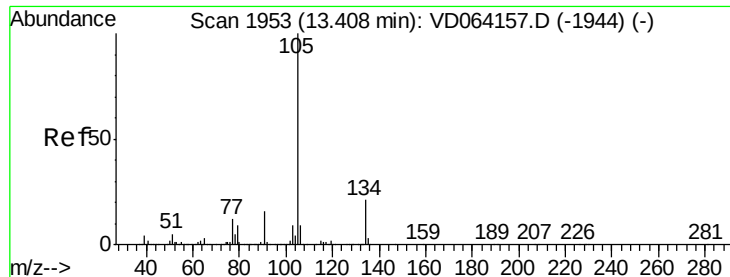
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.27



Time-->



#85

sec-Butylbenzene

Concen: 1.887 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.14 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

Instrument :

MSVOA_D

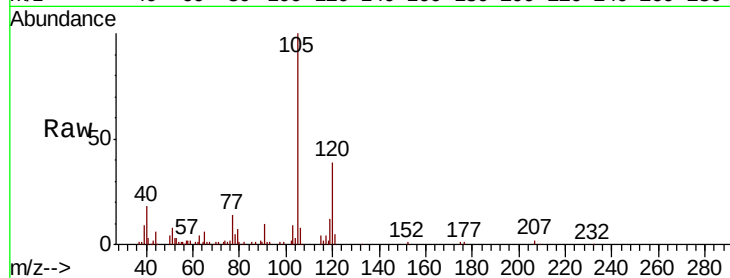
ClientSampleId :

Tot Ion:105 Resp: 69866

Ion Ratio Lower Upper

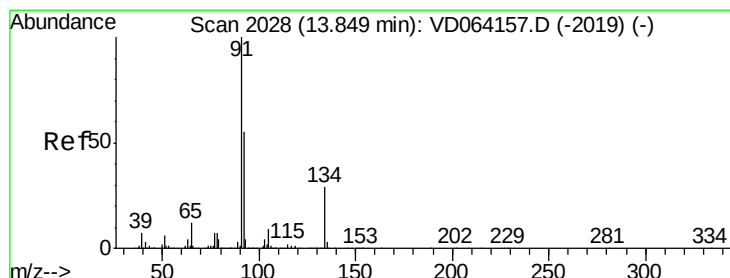
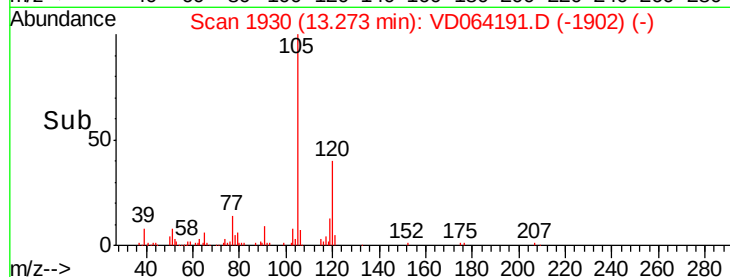
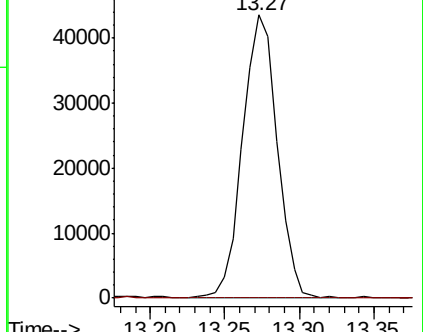
105 100

134 0.0 10.7 31.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 1.938 ug/l

RT: 13.78 min Scan# 2016

Delta R.T. -0.07 min

Lab File: VD064191.D

Acq: 11 Nov 2019 21:35

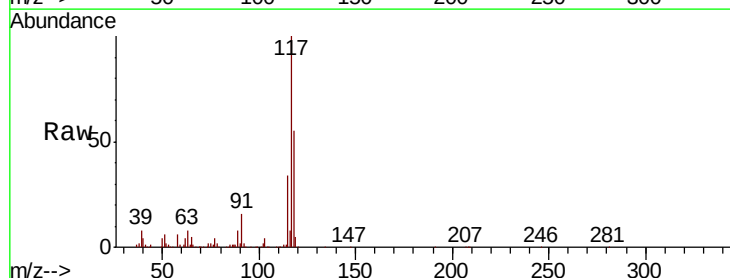
Tgt Ion: 91 Resp: 61614

Ion Ratio Lower Upper

91 100

92 10.2 27.3 81.8#

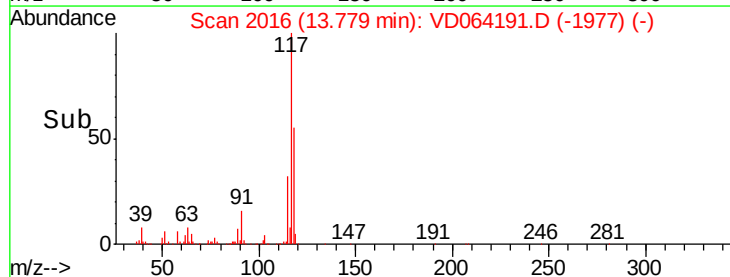
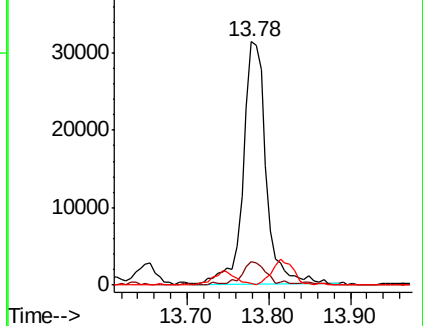
134 0.0 14.1 42.4#

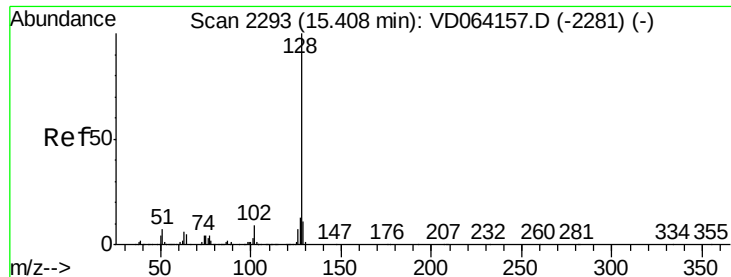


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): V





#95
Naphthalene
Concen: 15.619 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064191.D
Acq: 11 Nov 2019 21:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.5	15.7
129	11.2	8.6	13.0

