

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010720\
 Data File : VD064799.D
 Acq On : 07 Jan 2020 18:11
 Operator : VA/SY
 Sample : L1016-01
 Misc : 8.57G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 08 07:38:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

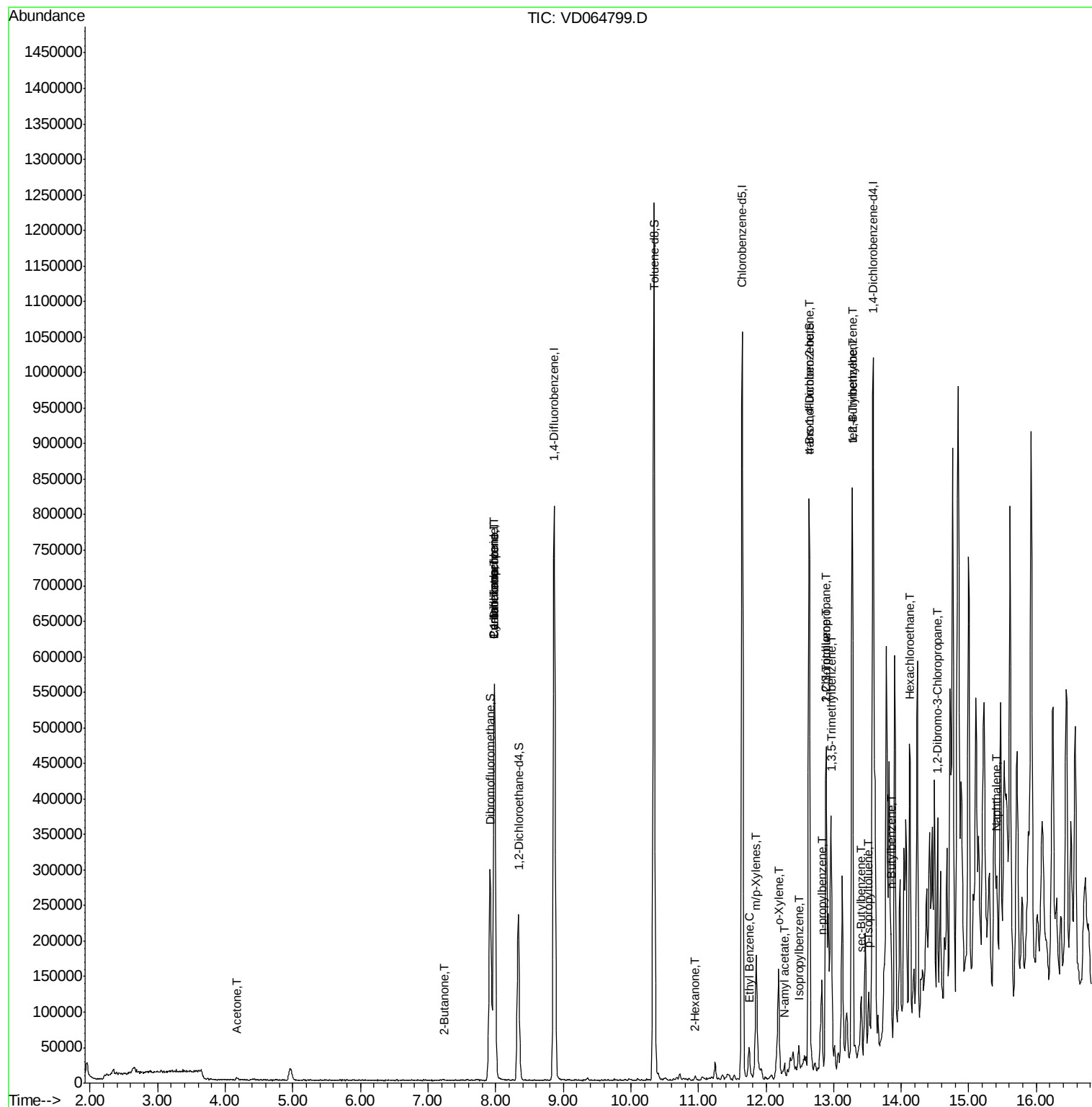
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	439943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	687332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	582659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	263368	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	186408	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
35) Dibromofluoromethane	7.92	113	209065	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
50) Toluene-d8	10.34	98	821166	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
62) 4-Bromofluorobenzene	12.64	95	236788	46.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.74%	
Target Compounds						
					Qvalue	
16) Acetone	4.17	43	5142	9.731	ug/l	89
20) Methylene Chloride	4.96	84	12384	Below Cal		90
25) 2-Butanone	7.24	43	1241	1.164	ug/l #	49
31) Cyclohexane	7.98	56	10135	1.401	ug/l #	24
36) 1,1-Dichloropropene	7.98	75	31516	4.764	ug/l #	50
38) Carbon Tetrachloride	7.98	117	41588	5.896	ug/l #	16
59) 2-Hexanone	10.95	43	2459	1.417	ug/l #	26
67) Ethyl Benzene	11.75	91	29281	1.334	ug/l	96
68) m/p-Xylenes	11.86	106	46655	5.507	ug/l	99
69) o-Xylene	12.18	106	37644	4.919	ug/l	99
73) Isopropylbenzene	12.48	105	21168	1.125	ug/l	95
74) N-amyl acetate	12.27	43	5613	1.395	ug/l #	66
76) 1,2,3-Trichloropropane	12.89	75	4041	1.943	ug/l #	100
78) n-propylbenzene	12.83	91	95694	4.358	ug/l	99
79) 2-Chlorotoluene	12.89	91	35007	2.902	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.97	105	108474	7.016	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.64	75	128272	128.997	ug/l #	10
83) tert-Butylbenzene	13.27	119	59575	4.438	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.28	105	453984	29.484	ug/l	100
85) sec-Butylbenzene	13.41	105	51879	2.819	ug/l	91
86) p-Isopropyltoluene	13.53	119	33868	1.925	ug/l	95
89) n-Butylbenzene	13.85	91	71706	4.525	ug/l #	77
90) Hexachloroethane	14.13	117	20167	6.000	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.53	75	630	1.314	ug/l #	1
95) Naphthalene	15.41	128	82577	9.430	ug/l #	91

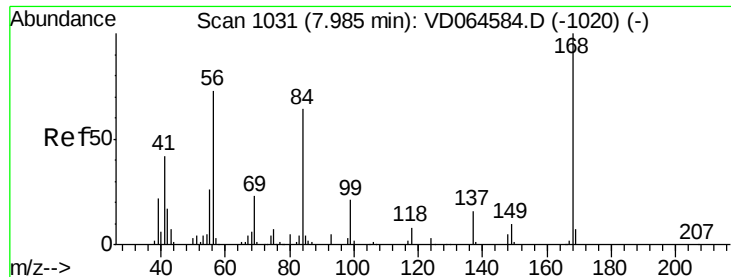
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD010720\
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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

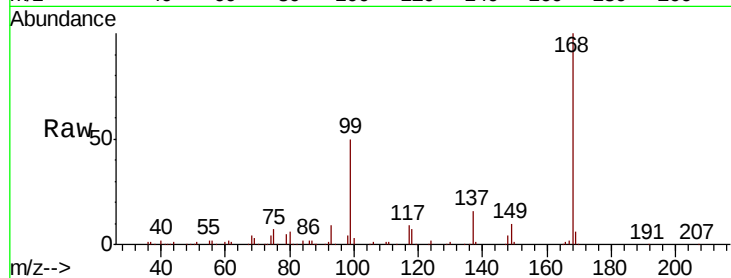
ClientSampled :

Tot Ion:168 Resp: 439943

Ion Ratio Lower Upper

168 100

99 50.4 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

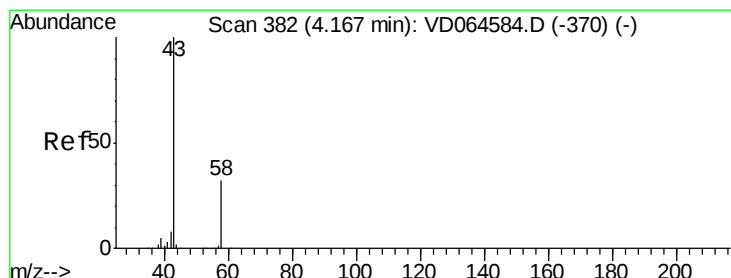
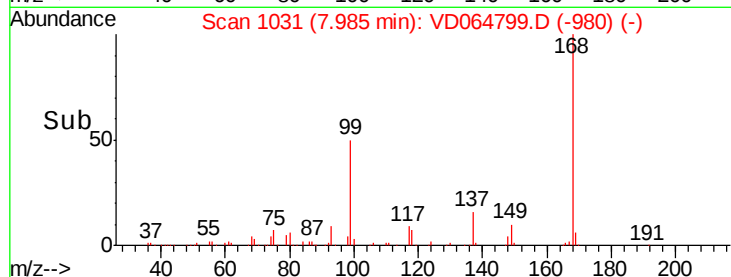
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 9.731 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064799.D

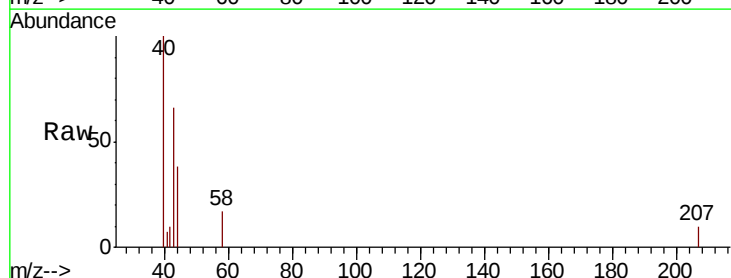
Acq: 07 Jan 2020 18:11

Tgt Ion: 43 Resp: 5142

Ion Ratio Lower Upper

43 100

58 26.2 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

2000

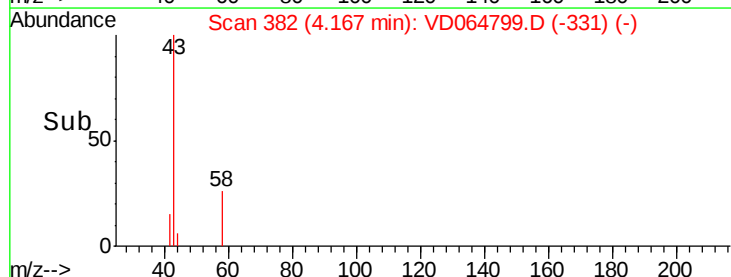
1500

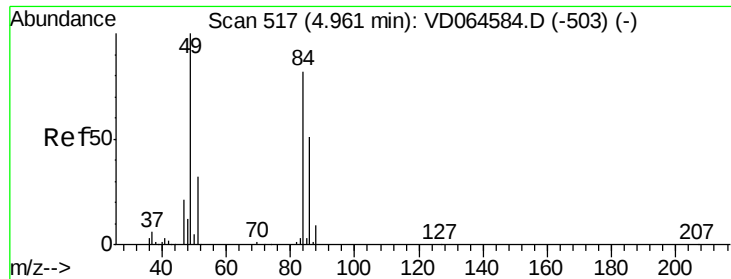
1000

500

0

Time-->

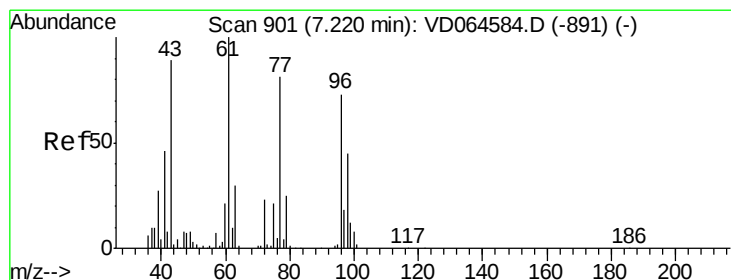
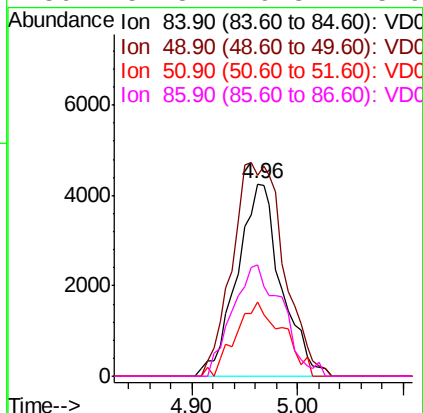
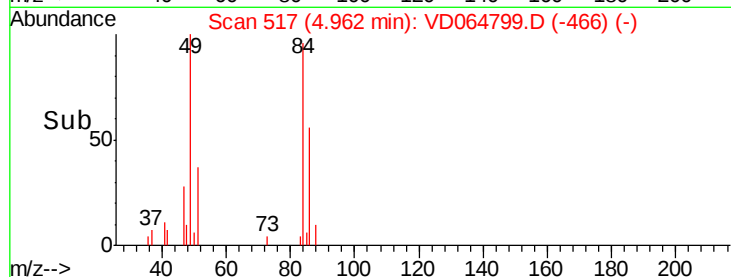
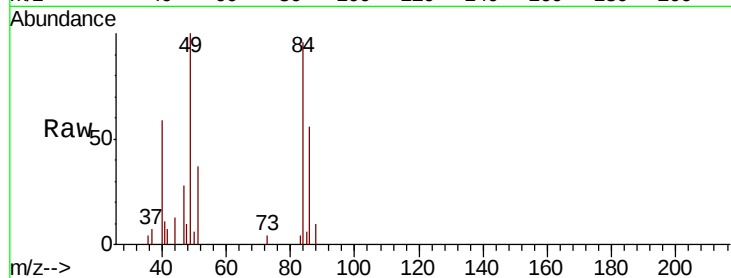




#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

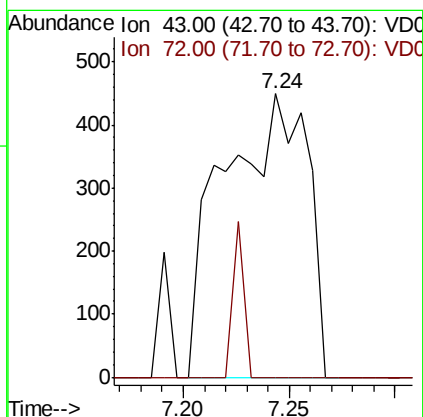
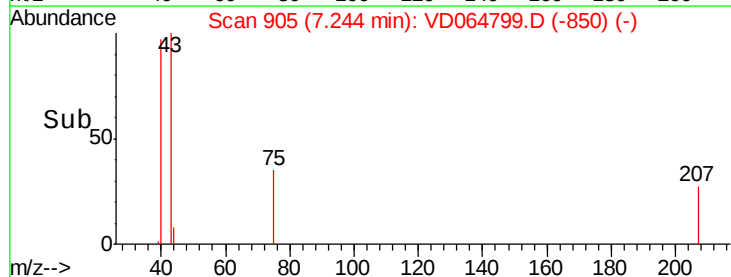
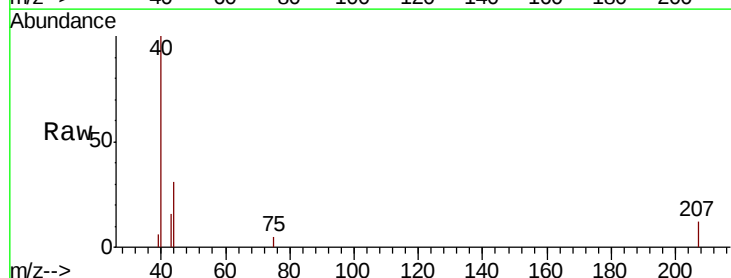
Instrument :
MSVOA_D
ClientSampleId :

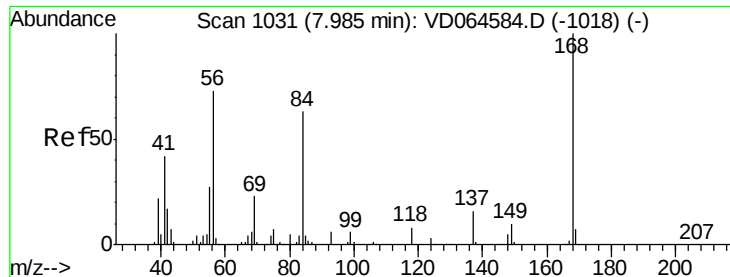
Tot Ion	84	Resp	12384
Ion	Ratio	Lower	Upper
84	100		
49	104.1	97.2	145.8
51	38.6	31.4	47.0
86	57.8	49.3	73.9



#25
2-Butanone
Concen: 1.164 ug/l
RT: 7.24 min Scan# 905
Delta R.T. 0.02 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion	43	Resp	1241
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.7	31.1#

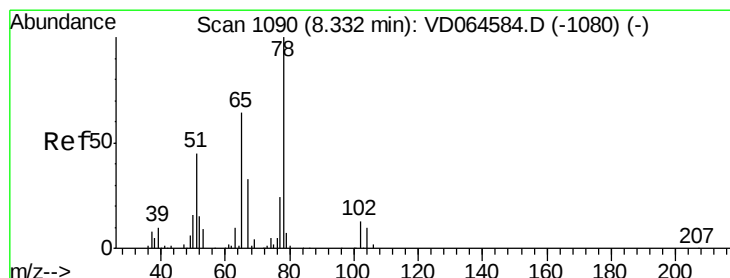
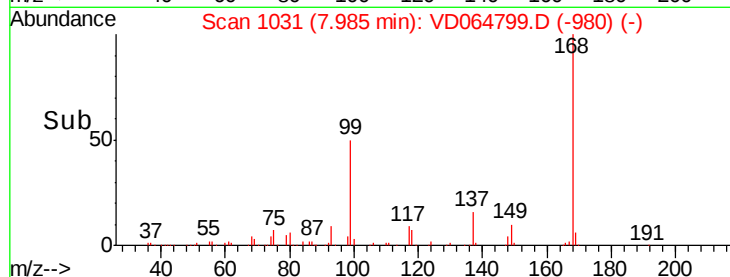
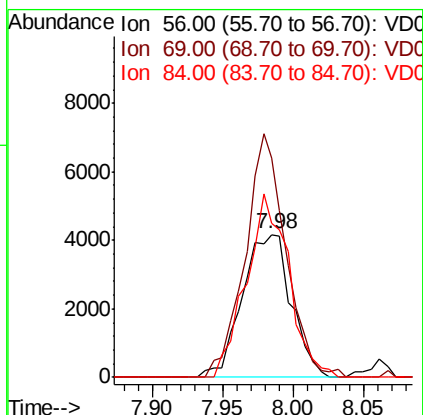
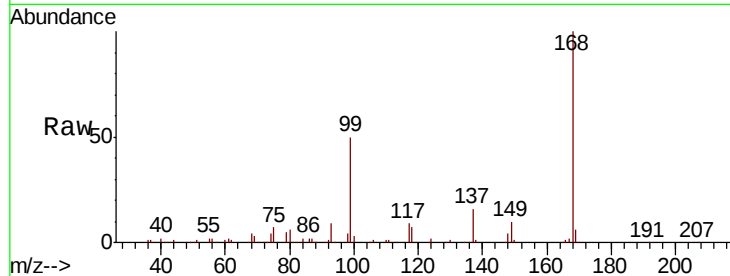




#31
Cyclohexane
Concen: 1.401 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

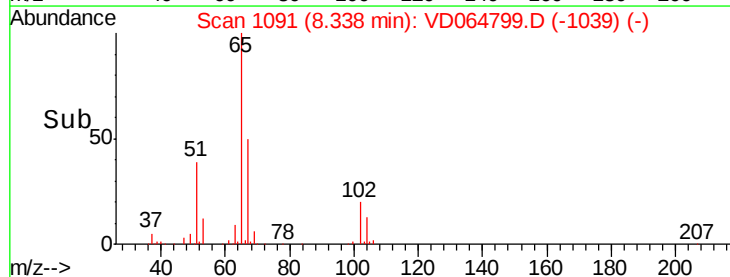
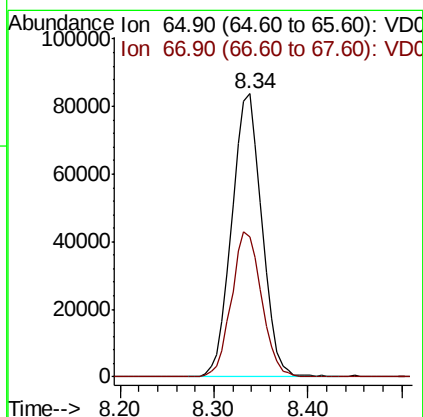
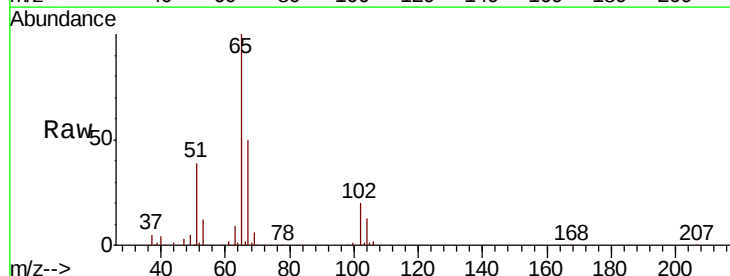
Instrument :
MSVOA_D
ClientSampled :

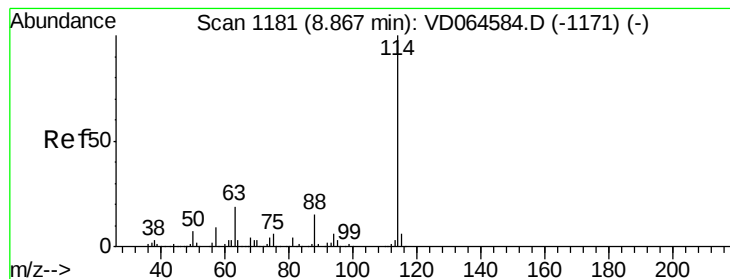
Tot Ion: 56 Resp: 10135
Ion Ratio Lower Upper
56 100
69 153.6 24.7 37.1#
84 108.1 69.4 104.2#



#33
1,2-Dichloroethane-d4
Concen: 48.051 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion: 65 Resp: 186408
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

ClientSampleId :

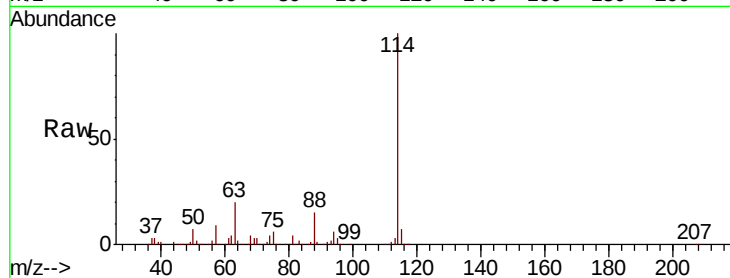
Tot Ion:114 Resp: 687332

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.0

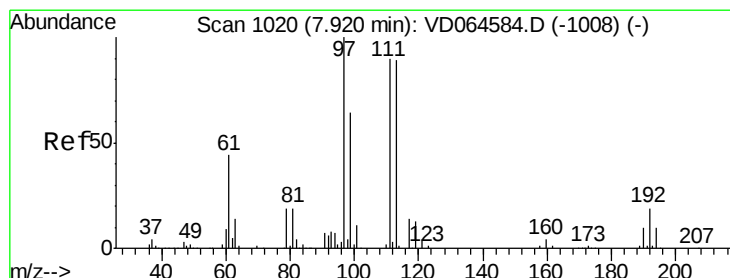
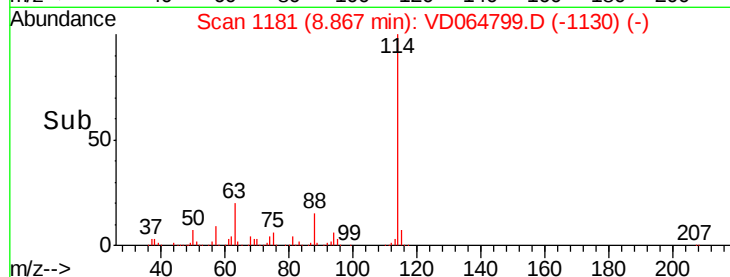
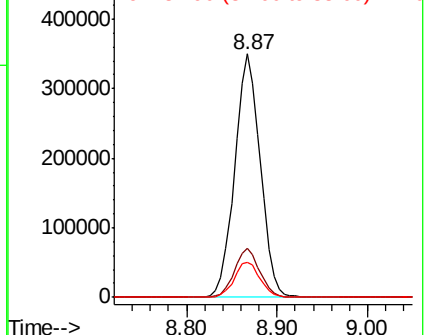
88 14.5 0.0 29.2



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: 49.578 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

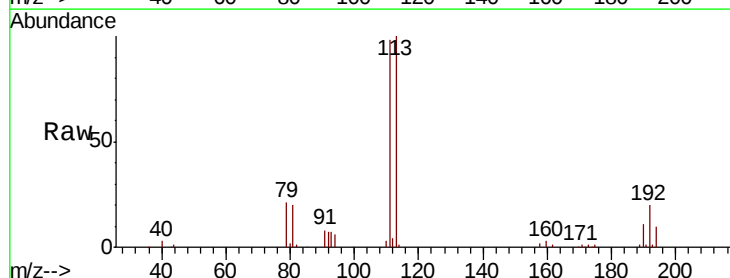
Tgt Ion:113 Resp: 209065

Ion Ratio Lower Upper

113 100

111 104.0 80.6 121.0

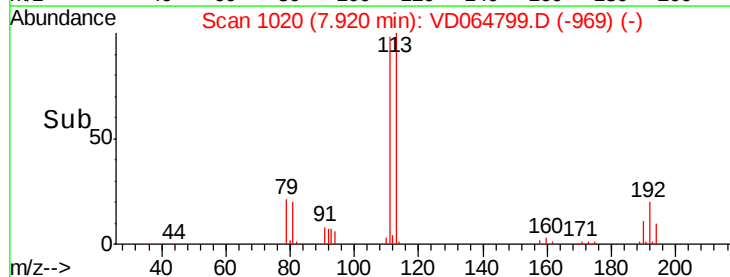
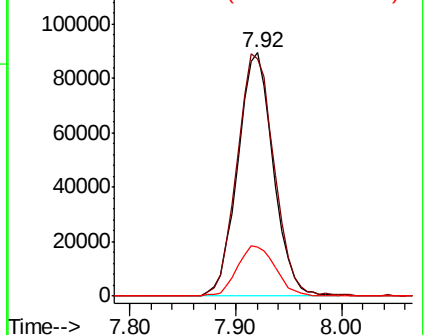
192 22.1 17.9 26.9

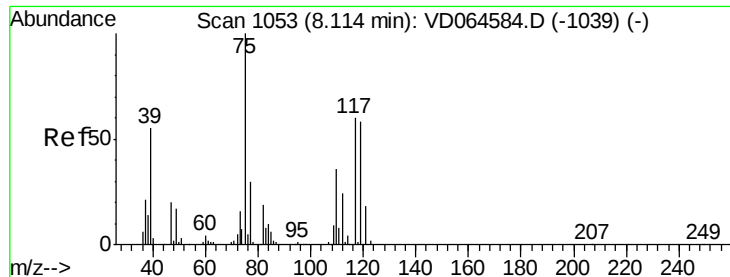


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.764 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

ClientSampleId :

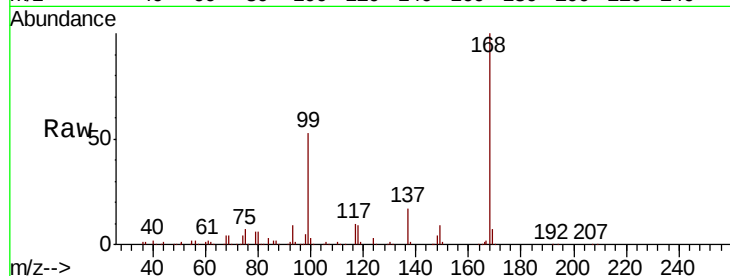
Tot Ion: 75 Resp: 31516

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.1#

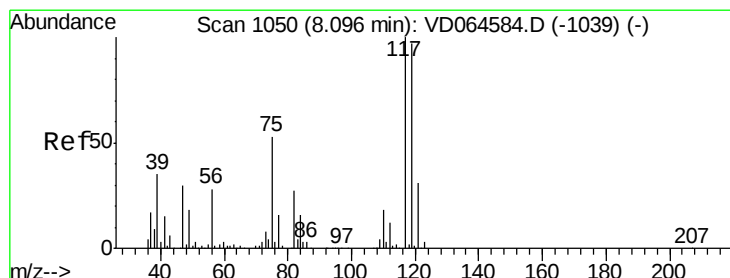
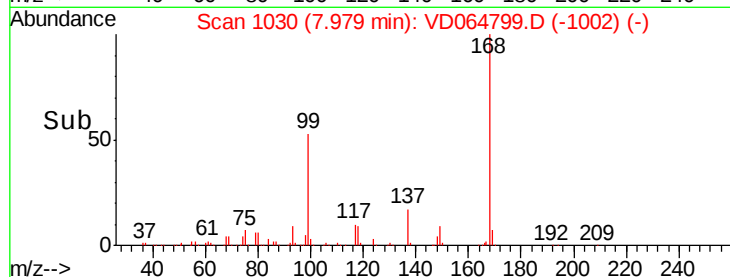
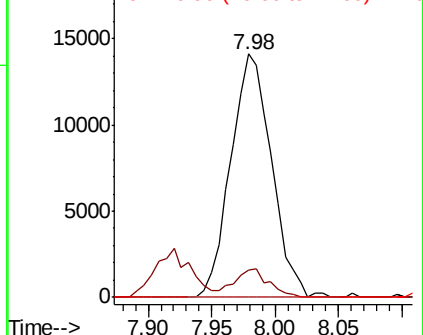
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VD064799.D (-999) (-)

Ion 109.90 (109.60 to 110.60): VD064799.D (-999) (-)

Ion 76.90 (76.60 to 77.60): VD064799.D (-999) (-)



#38

Carbon Tetrachloride

Concen: 5.896 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

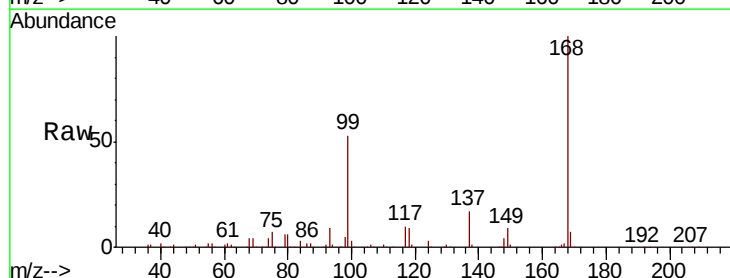
Tgt Ion: 117 Resp: 41588

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

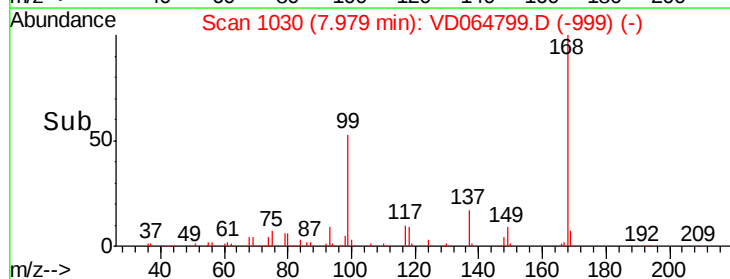
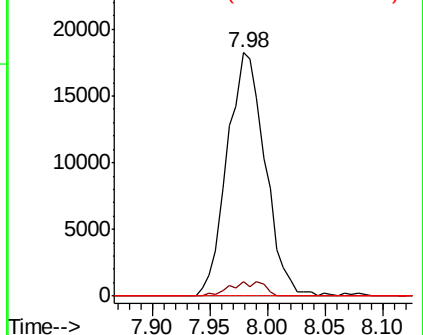
121 0.0 25.0 37.6#

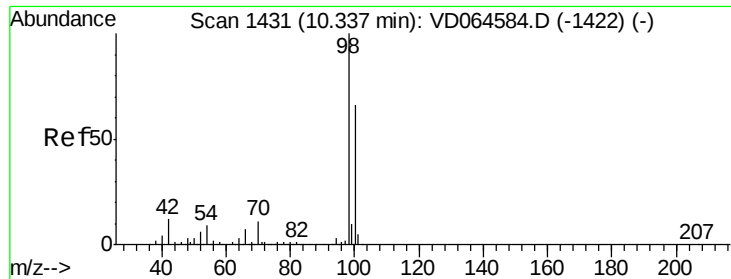


Abundance Ion 116.80 (116.50 to 117.50): VD064799.D (-999) (-)

Ion 118.80 (118.50 to 119.50): VD064799.D (-999) (-)

Ion 120.80 (120.50 to 121.50): VD064799.D (-999) (-)

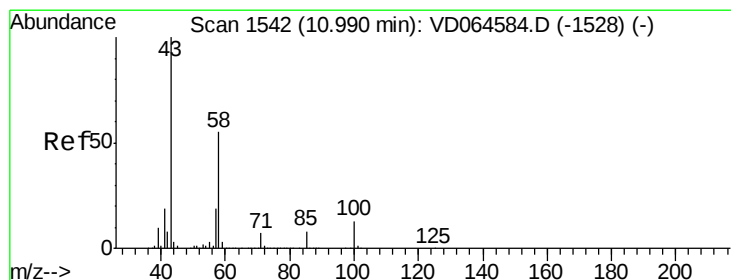
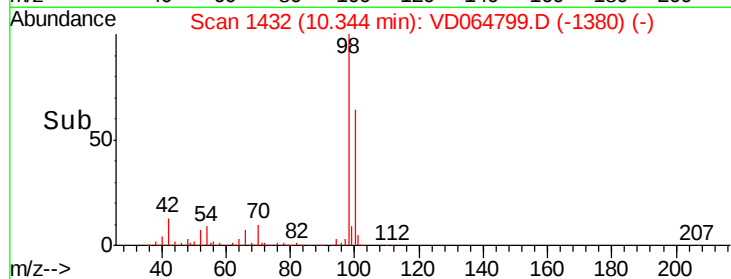
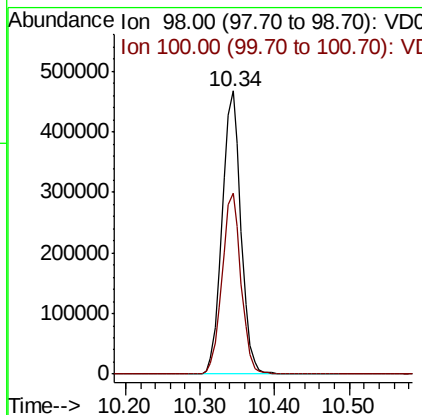
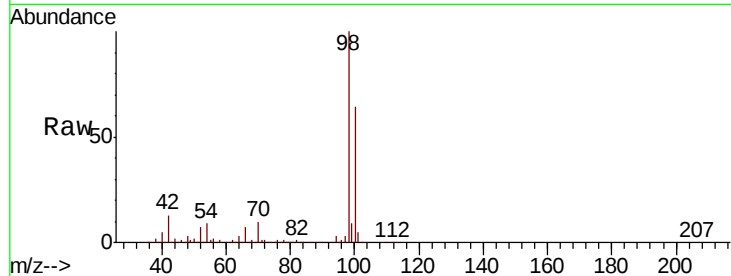




#50
Toluene-d8
Concen: 50.845 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

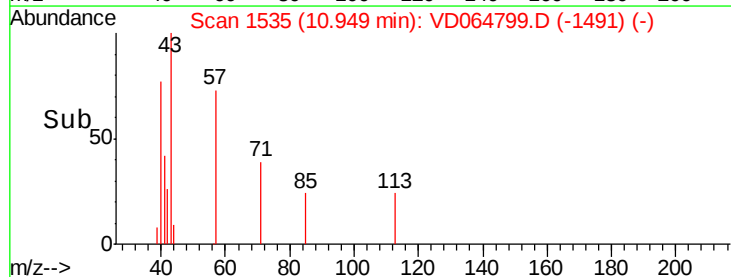
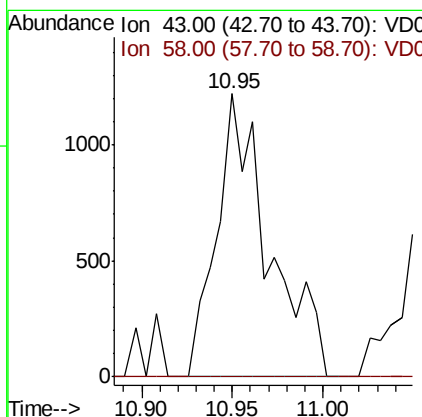
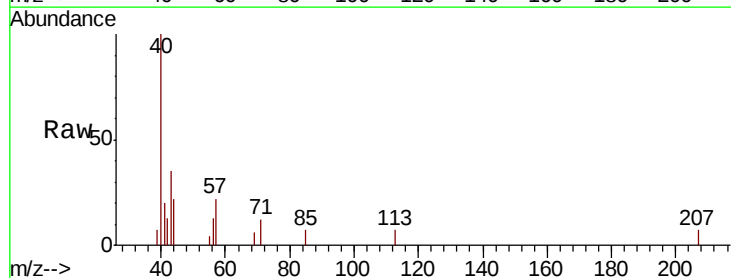
Instrument :
MSVOA_D
ClientSampled :

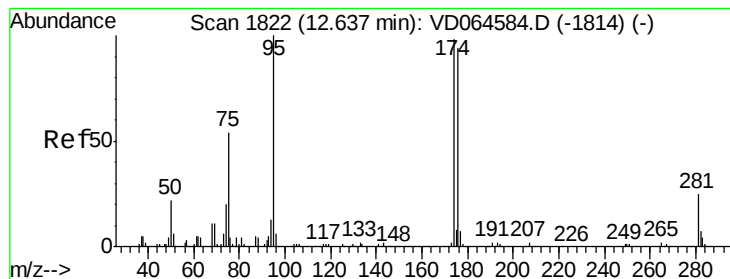
Tot Ion: 98 Resp: 821166
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



#59
2-Hexanone
Concen: 1.417 ug/l
RT: 10.95 min Scan# 1535
Delta R.T. -0.04 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion: 43 Resp: 2459
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#





#62

4-Bromofluorobenzene

Concen: 46.366 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

ClientSampleId :

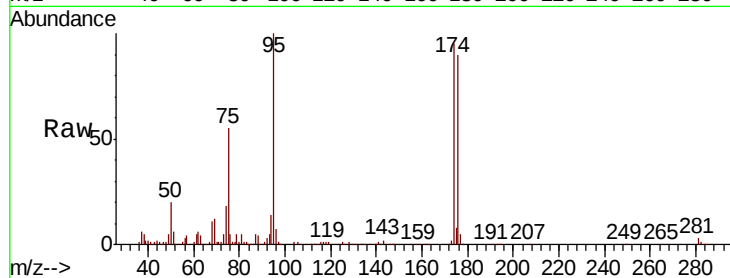
Tot Ion: 95 Resp: 236788

Ion Ratio Lower Upper

95 100

174 96.4 0.0 193.2

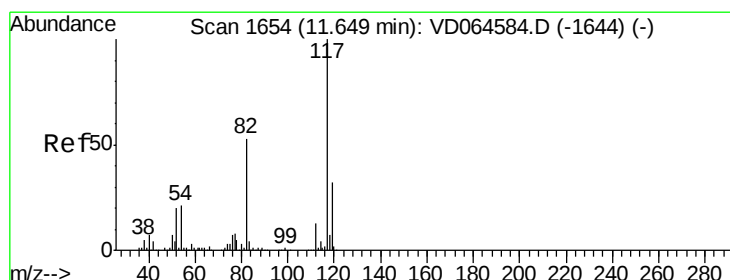
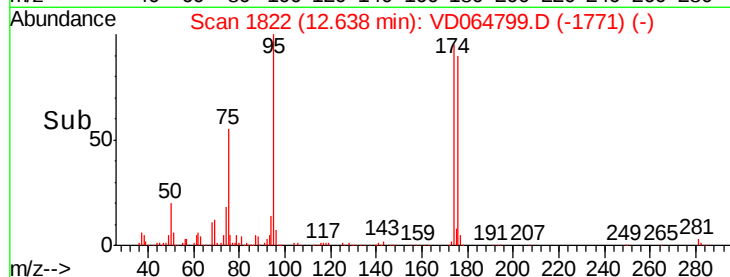
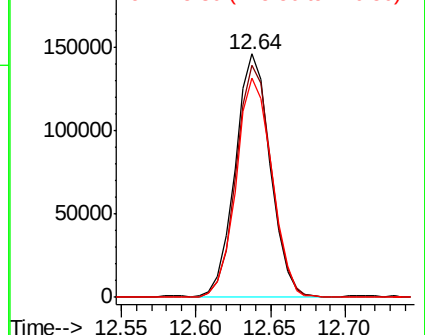
176 92.5 0.0 184.2



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: VD064799.D

Acq: 07 Jan 2020 18:11

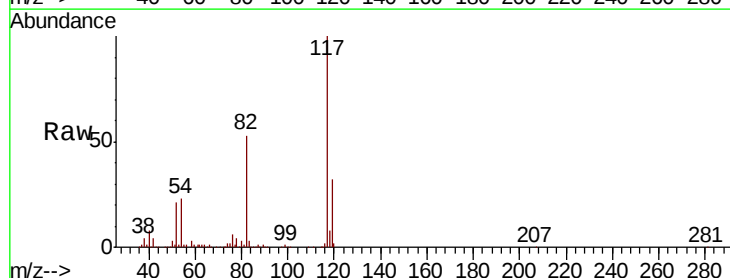
Tgt Ion: 117 Resp: 582659

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.4

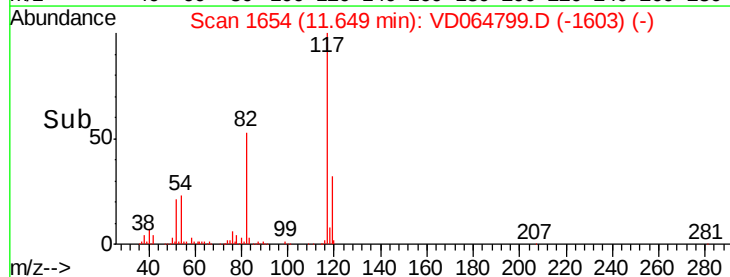
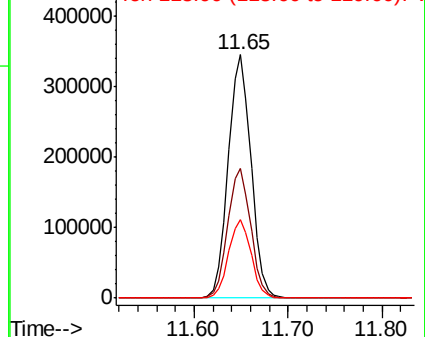
119 32.5 26.0 39.0

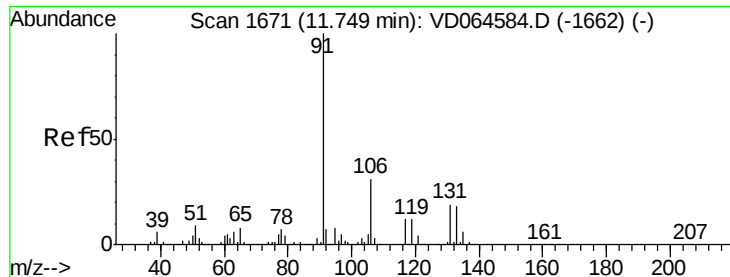


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 1.334 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

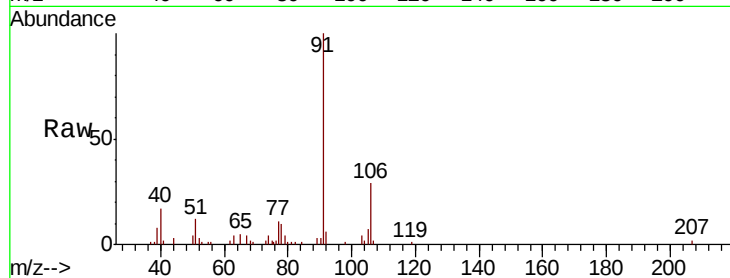
ClientSampleId :

Tot Ion: 91 Resp: 29281

Ion Ratio Lower Upper

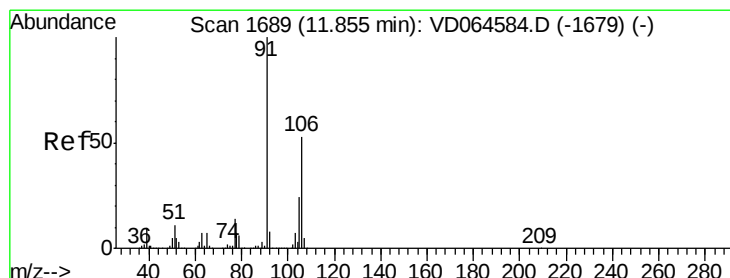
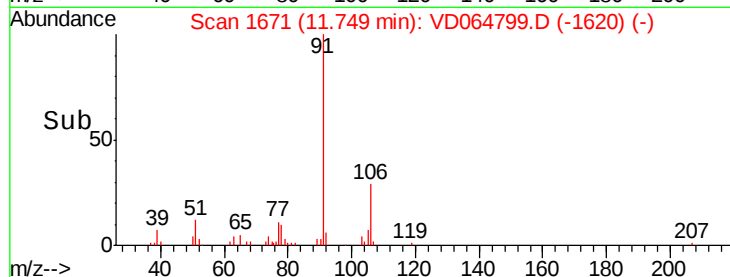
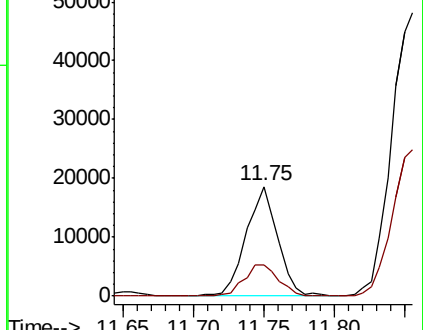
91 100

106 28.7 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 5.507 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064799.D

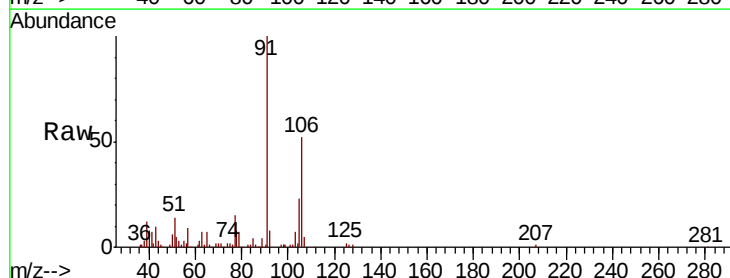
Acq: 07 Jan 2020 18:11

Tgt Ion: 106 Resp: 46655

Ion Ratio Lower Upper

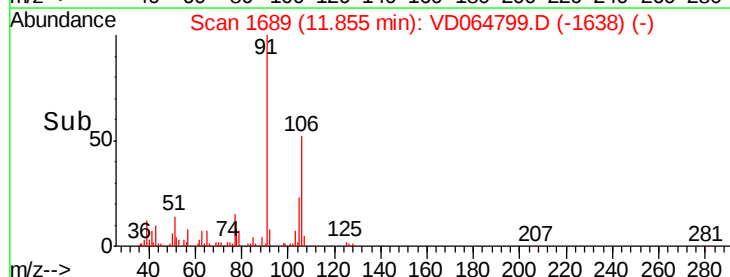
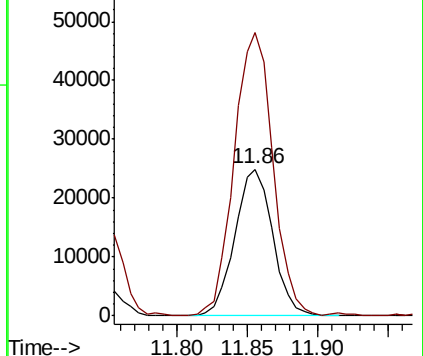
106 100

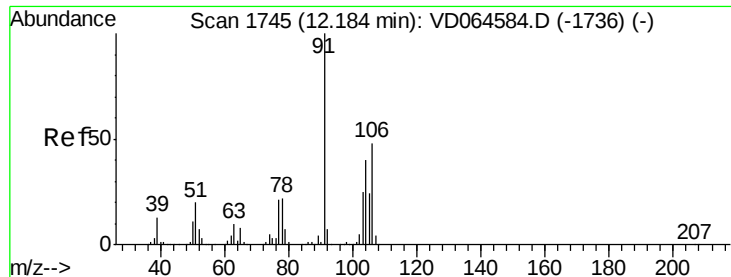
91 197.5 156.3 234.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

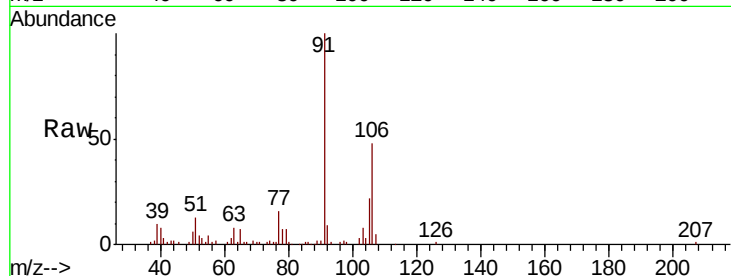




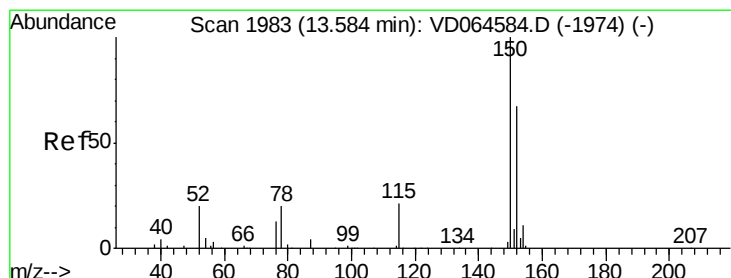
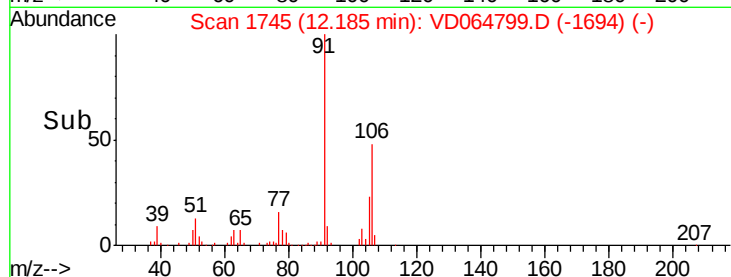
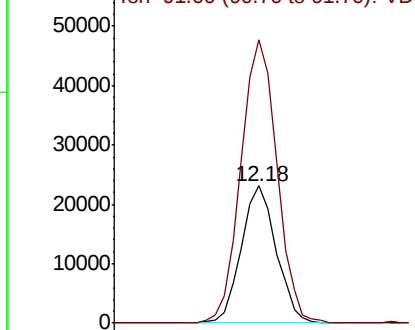
#69
o-Xylene
Concen: 4.919 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 37644
Ion Ratio Lower Upper
106 100
91 211.8 104.8 314.4

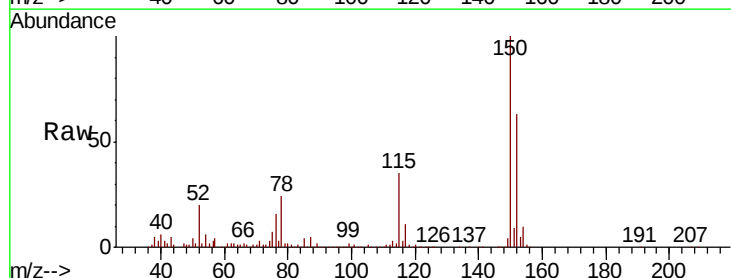


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

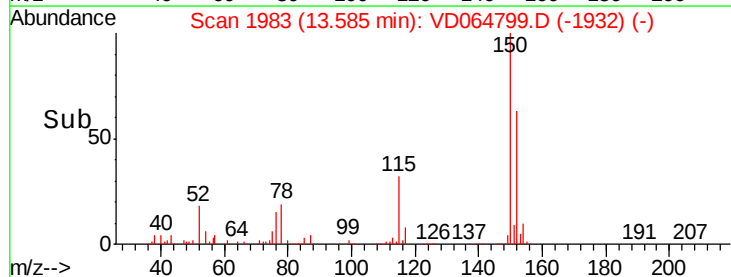
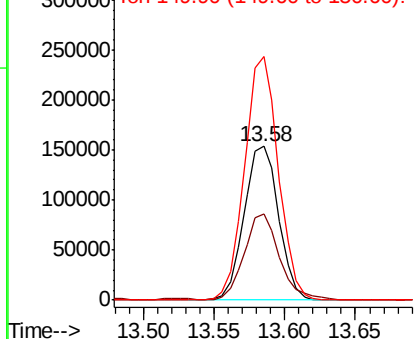


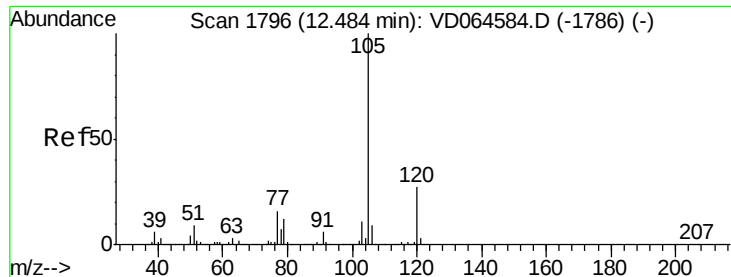
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion:152 Resp: 263368
Ion Ratio Lower Upper
152 100
115 57.6 27.8 83.4
150 154.6 0.0 351.4



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





#73

Isopropylbenzene

Concen: 1.125 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

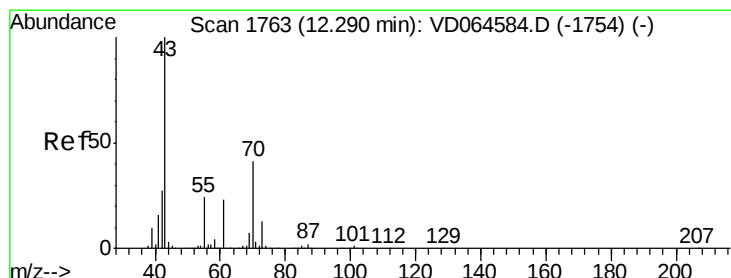
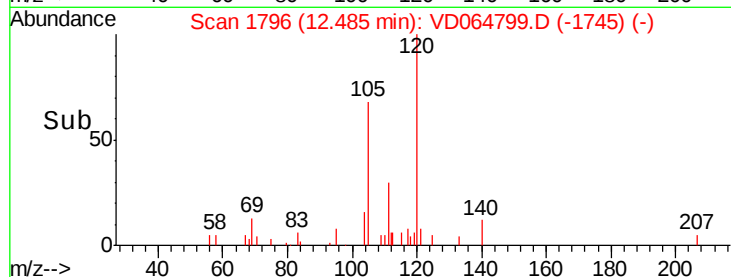
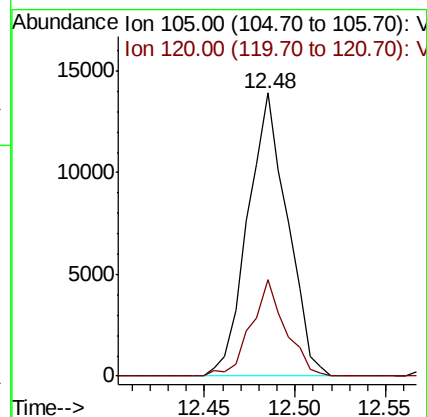
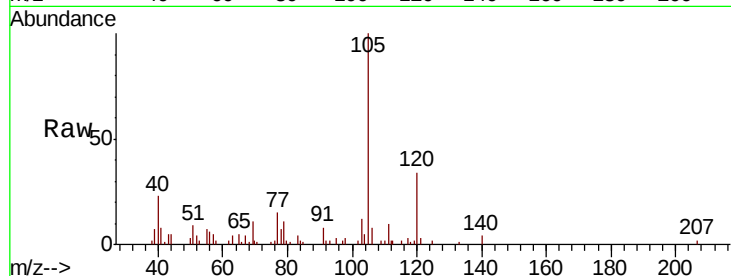
ClientSampleId :

Tot Ion:105 Resp: 21168

Ion Ratio Lower Upper

105 100

120 29.5 13.5 40.5



#74

N-ethyl acetate

Concen: 1.395 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Tgt Ion: 43 Resp: 5613

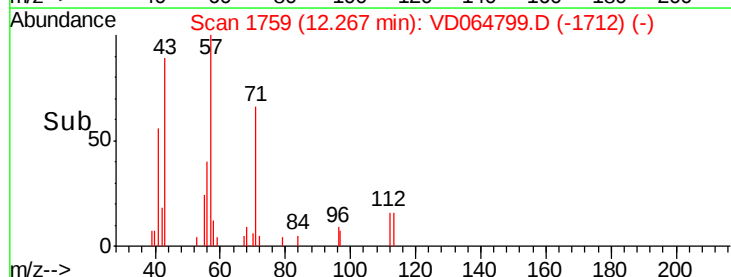
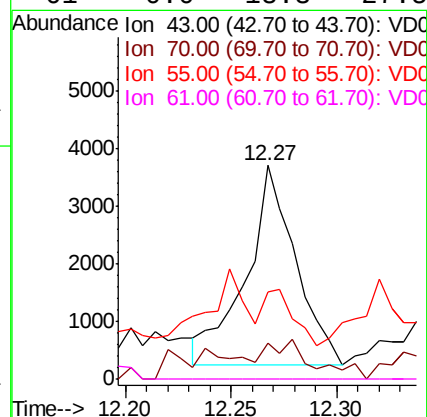
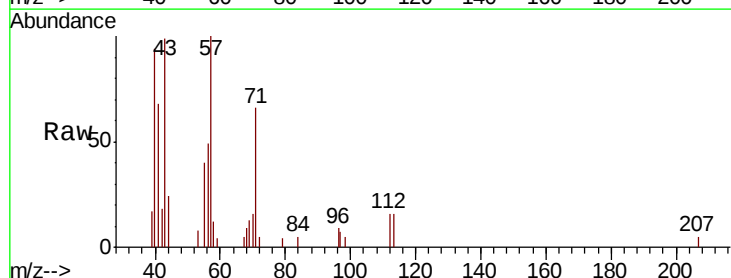
Ion Ratio Lower Upper

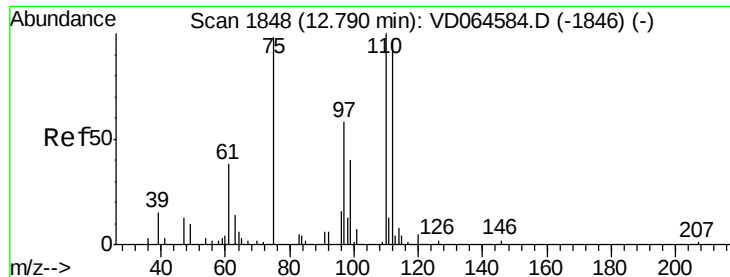
43 100

70 18.1 33.4 50.0#

55 16.8 19.4 29.0#

61 0.0 18.3 27.5#





#76

1,2,3-Trichloropropane

Concen: 1.943 ug/l

RT: 12.89 min Scan# 1865

Delta R.T. 0.10 min

Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

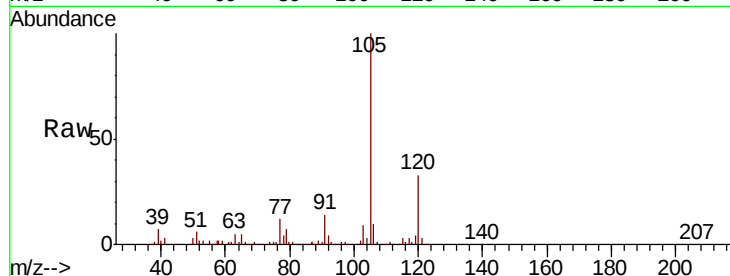
ClientSampleId :

Tot Ion: 75 Resp: 4041

Ion Ratio Lower Upper

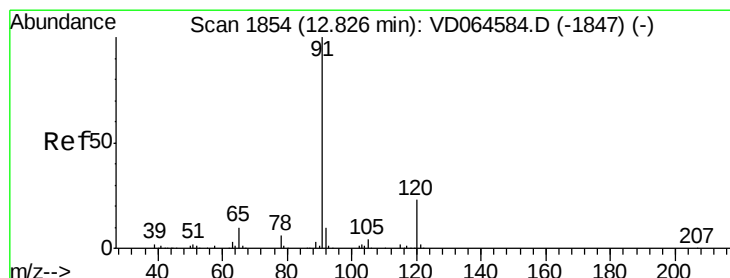
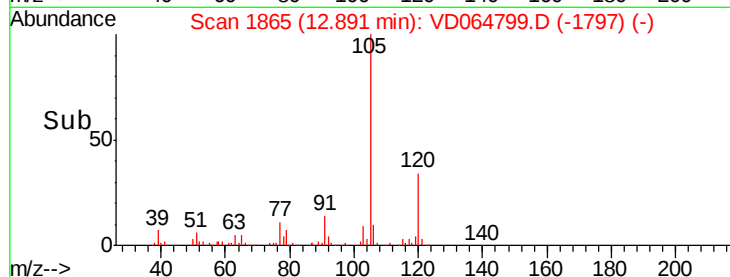
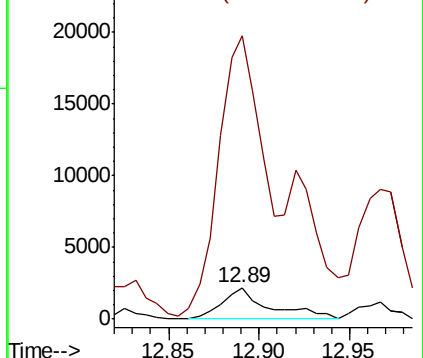
75 100

77 804.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#78

n-propylbenzene

Concen: 4.358 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064799.D

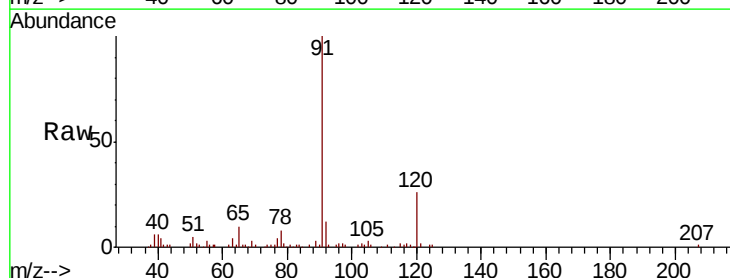
Acq: 07 Jan 2020 18:11

Tgt Ion: 91 Resp: 95694

Ion Ratio Lower Upper

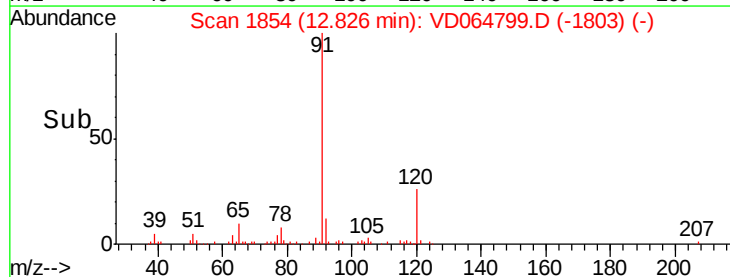
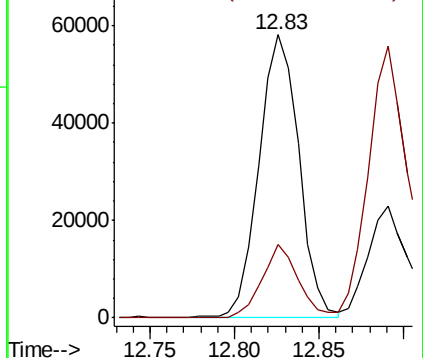
91 100

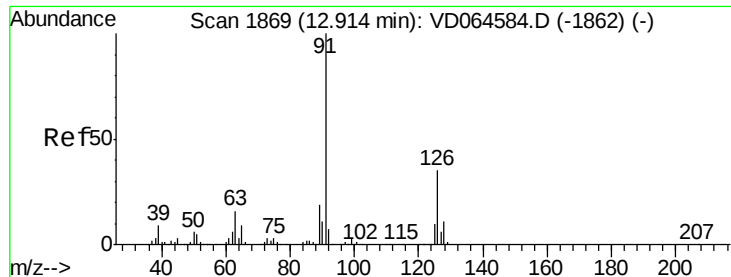
120 23.2 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): VDC

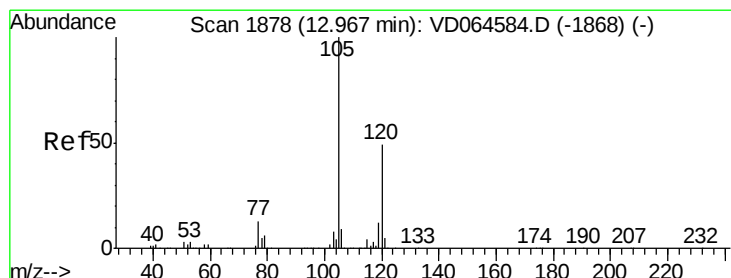
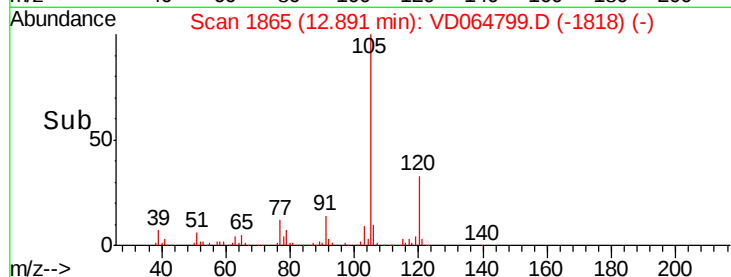
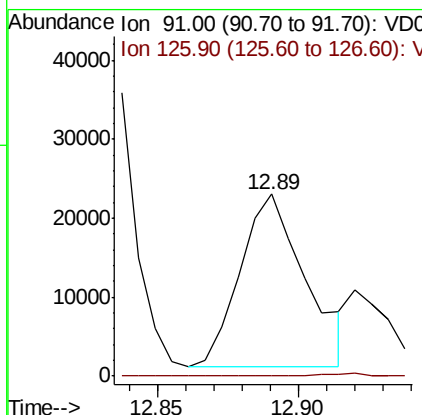
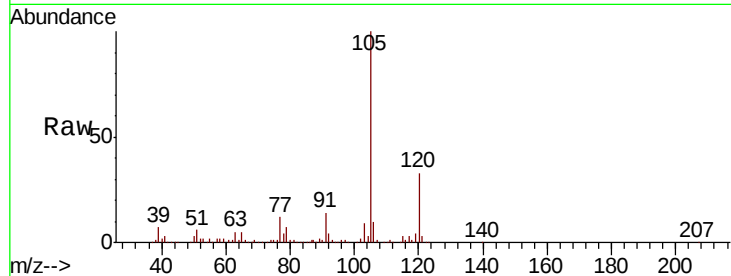




#79
 2-Chlorotoluene
 Concen: 2.902 ug/l
 RT: 12.89 min Scan# 1865
 Delta R.T. -0.02 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

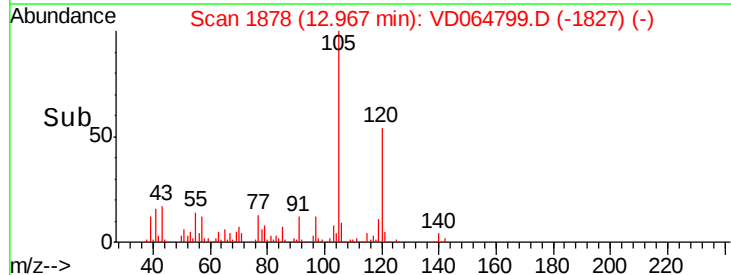
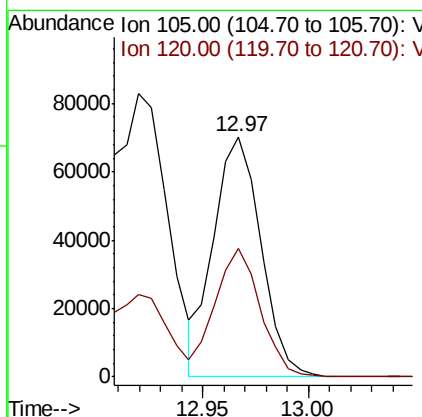
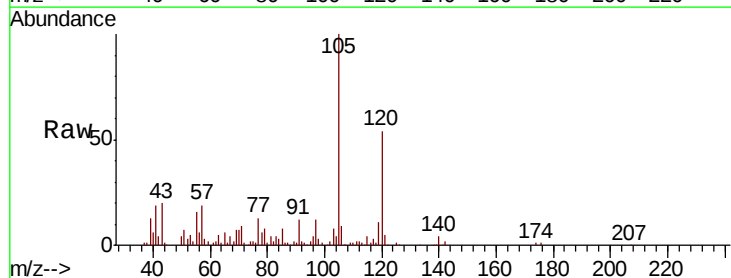
Instrument :
 MSVOA_D
 ClientSampleId :

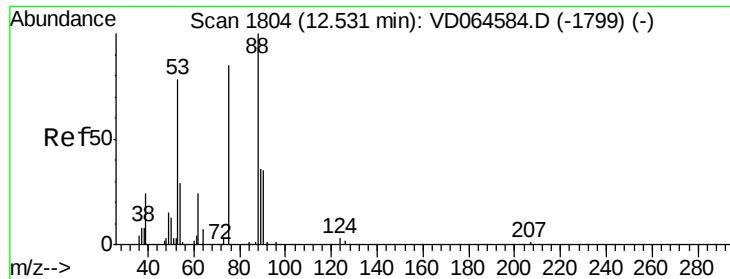
Tot Ion: 91 Resp: 35007
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 7.016 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

Tgt Ion: 105 Resp: 108474
 Ion Ratio Lower Upper
 105 100
 120 51.6 25.0 75.0

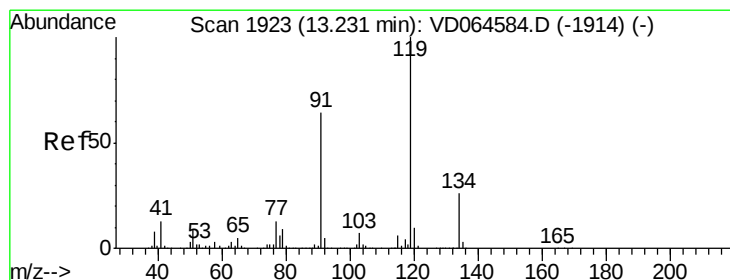
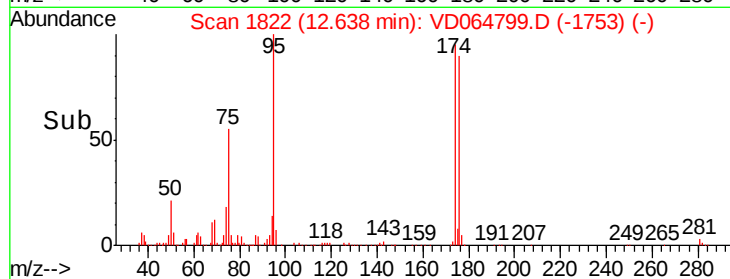
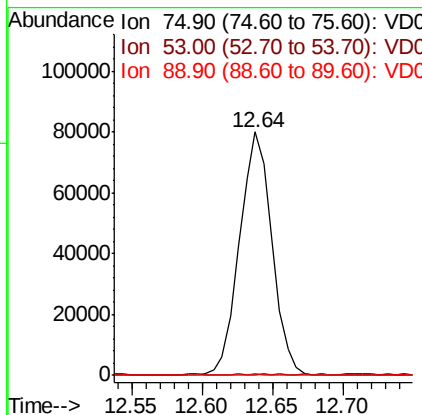
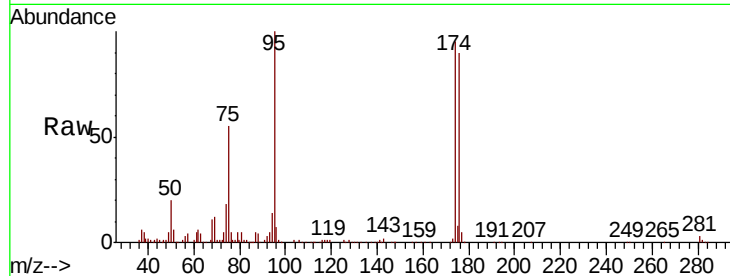




#81
trans-1,4-Dichloro-2-butene
Concen: 128.997 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

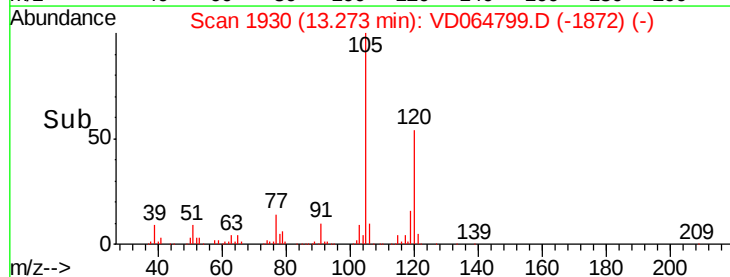
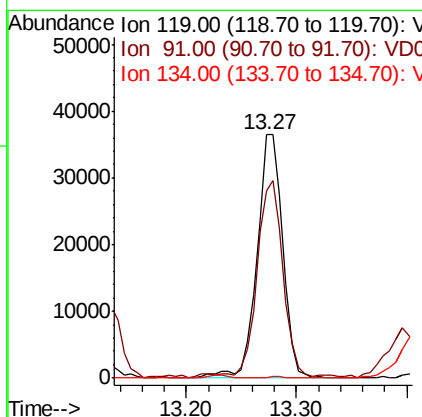
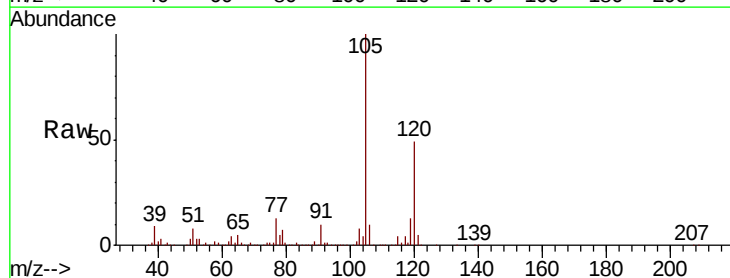
Instrument :
MSVOA_D
ClientSampled :

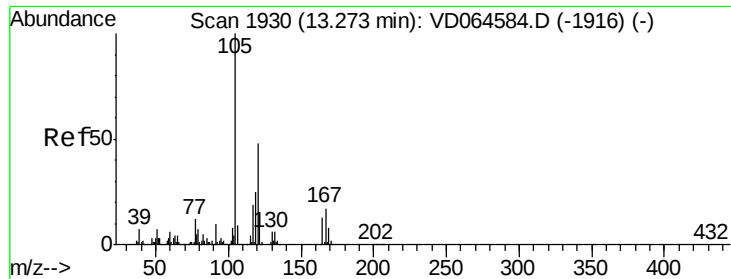
Tot Ion: 75 Resp: 128272
Ion Ratio Lower Upper
75 100
53 0.2 78.8 118.2#
89 0.2 38.3 57.5#



#83
tert-Butylbenzene
Concen: 4.438 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.04 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion: 119 Resp: 59575
Ion Ratio Lower Upper
119 100
91 79.0 30.8 92.4
134 0.0 12.8 38.3#

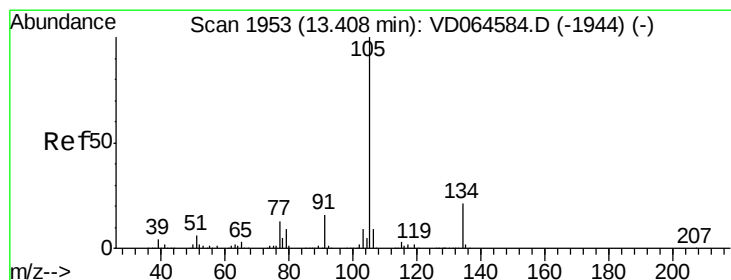
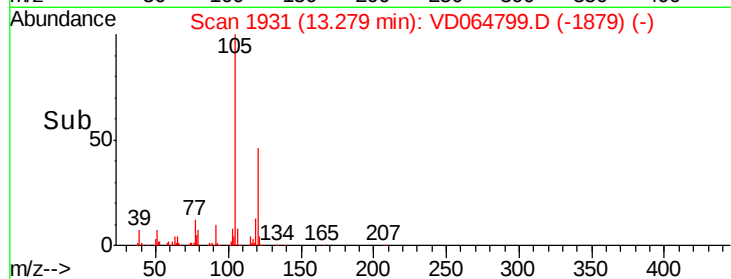
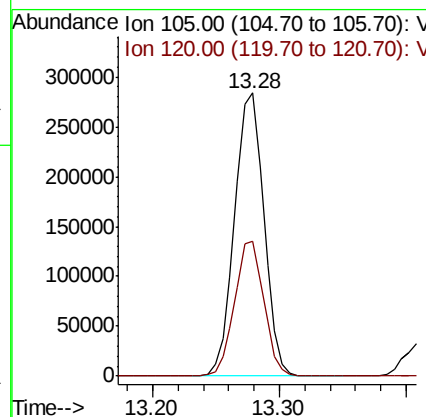
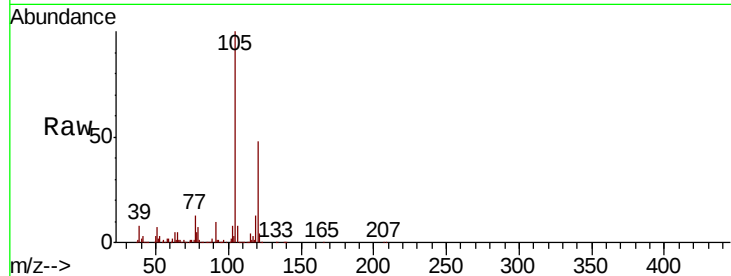




#84
 1,2,4-Trimethylbenzene
 Concen: 29.484 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

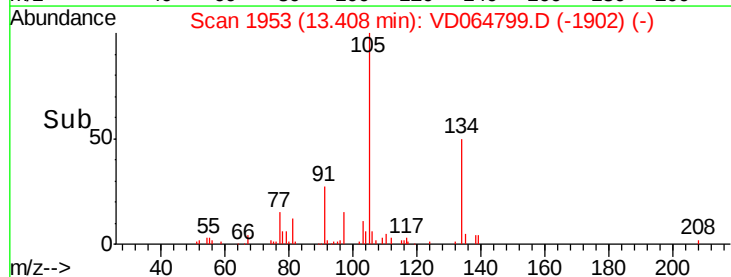
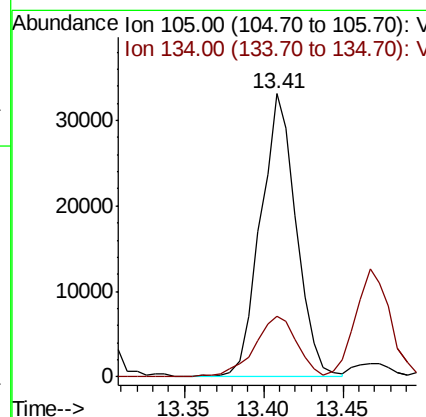
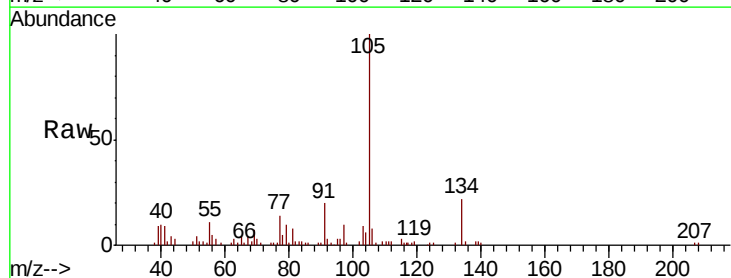
Instrument :
 MSVOA_D
 ClientSampleId :

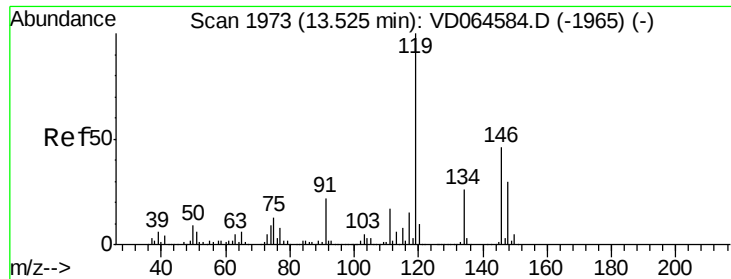
Tot Ion:105 Resp: 453984
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.8 71.2



#85
 sec-Butylbenzene
 Concen: 2.819 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

Tgt Ion:105 Resp: 51879
 Ion Ratio Lower Upper
 105 100
 134 25.6 10.6 31.8

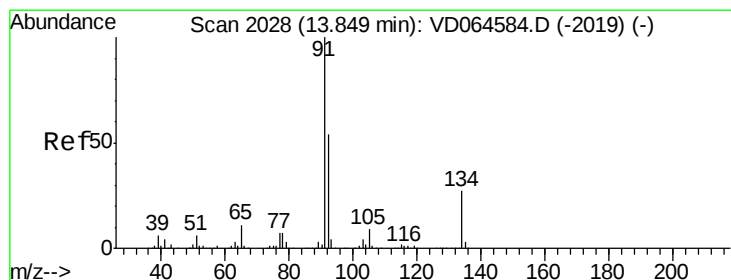
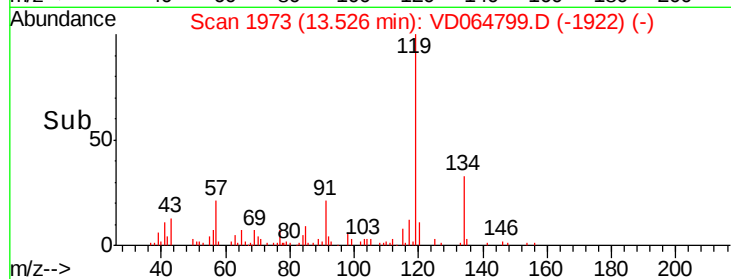
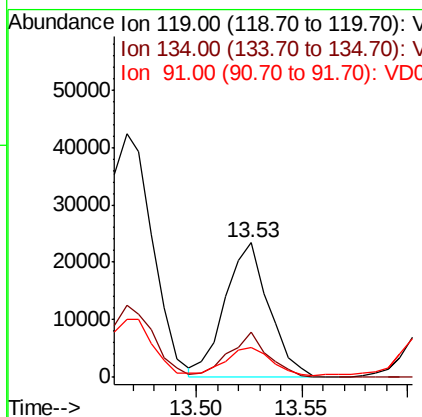
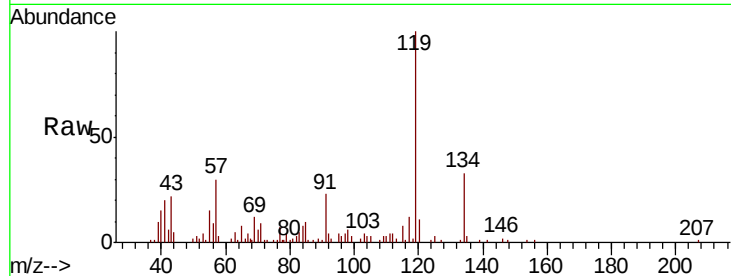




#86
 p-Isopropyltoluene
 Concen: 1.925 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

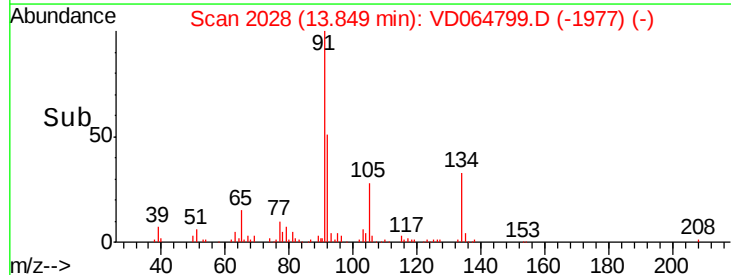
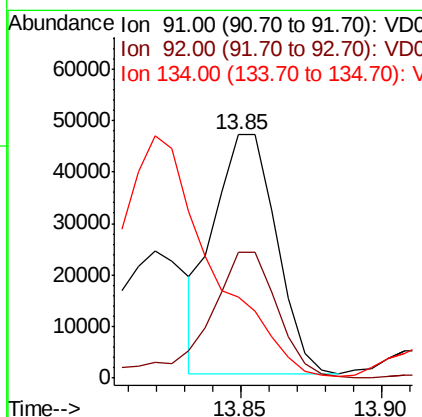
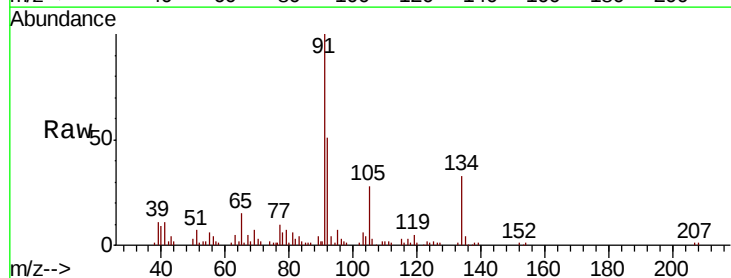
Instrument :
 MSVOA_D
 ClientSampled :

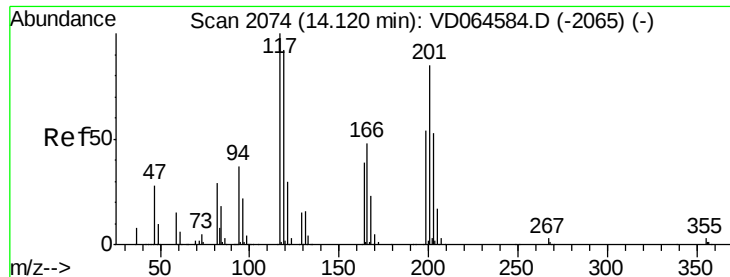
Tot Ion: 119 Resp: 33868
 Ion Ratio Lower Upper
 119 100
 134 29.7 13.4 40.1
 91 20.9 11.2 33.6



#89
 n-Butylbenzene
 Concen: 4.525 ug/l
 RT: 13.85 min Scan# 2028
 Delta R.T. 0.00 min
 Lab File: VD064799.D
 Acq: 07 Jan 2020 18:11

Tgt Ion: 91 Resp: 71706
 Ion Ratio Lower Upper
 91 100
 92 58.6 26.8 80.4
 134 0.0 14.0 41.9#

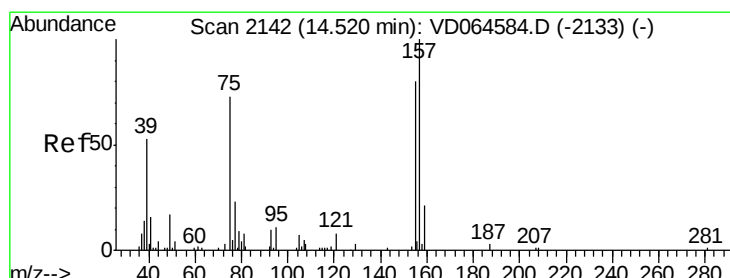
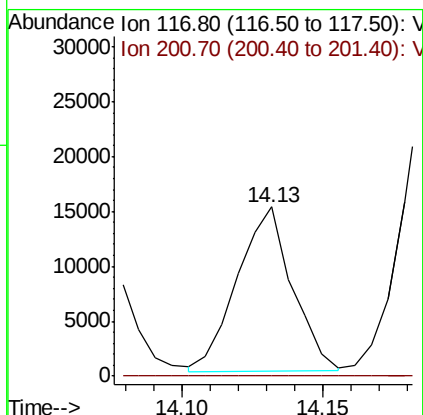
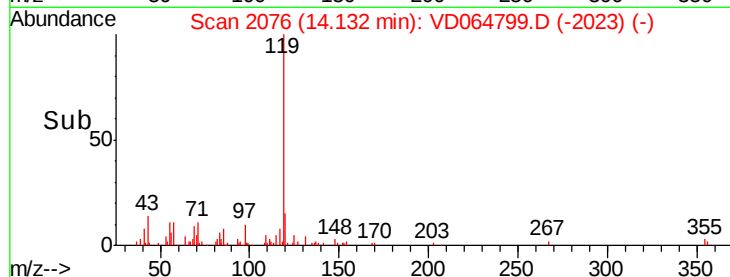
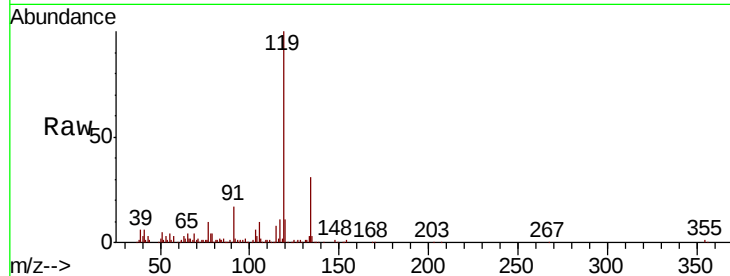




#90
Hexachloroethane
Concen: 6.000 ug/l
RT: 14.13 min Scan# 2076
Delta R.T. 0.01 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

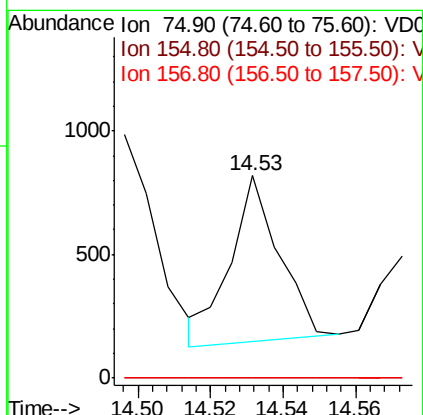
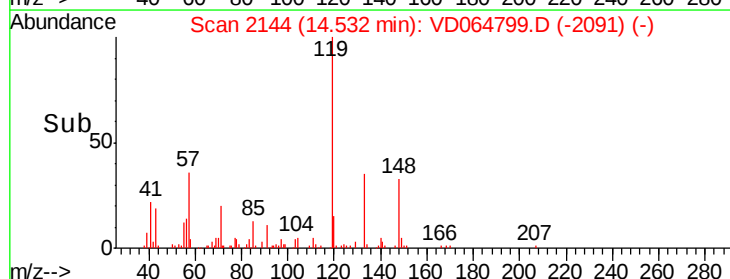
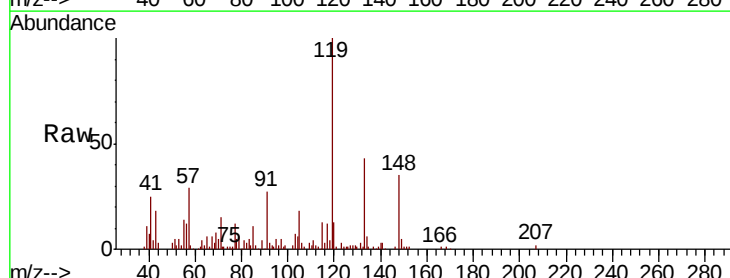
Instrument :
MSVOA_D
ClientSampled :

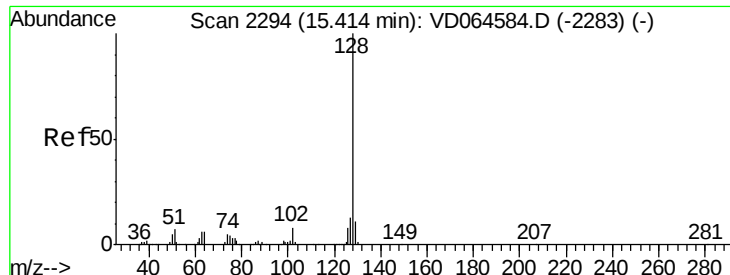
Tot Ion:117 Resp: 20167
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.314 ug/l
RT: 14.53 min Scan# 2144
Delta R.T. 0.01 min
Lab File: VD064799.D
Acq: 07 Jan 2020 18:11

Tgt Ion: 75 Resp: 630
Ion Ratio Lower Upper
75 100
155 0.0 48.0 144.0#
157 0.0 64.1 192.3#





#95

Naphthalene

Concen: 9.430 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

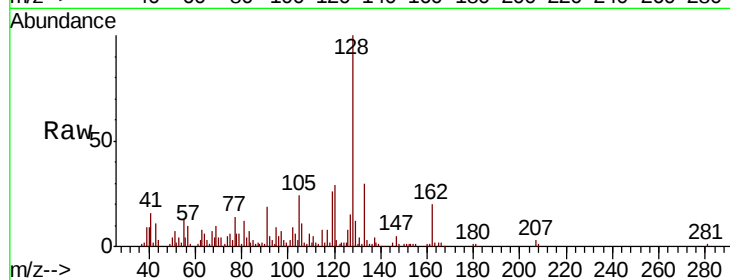
Lab File: VD064799.D

Acq: 07 Jan 2020 18:11

Instrument :

MSVOA_D

ClientSampleId :



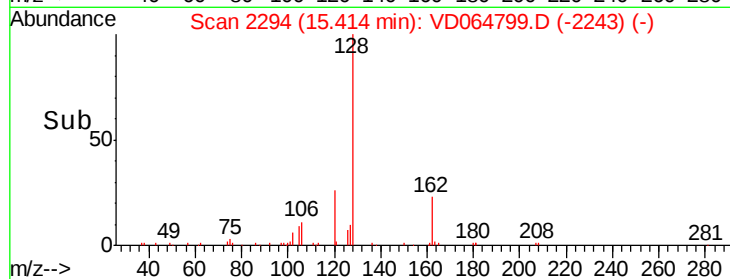
Tot Ion:128 Resp: 82577

Ion Ratio Lower Upper

128 100

127 15.6 10.3 15.5#

129 14.6 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

