

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD123119\
 Data File : VD064703.D
 Acq On : 31 Dec 2019 19:07
 Operator : VA/SY
 Sample : K6465-02
 Misc : 6.50G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GP-11-(5-6)

Quant Time: Jan 01 00:48:04 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	470213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	734163	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	660928	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	303915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	234436	56.54	ug/l	0.00
Spiked Amount			Recovery	=	113.08%	
35) Dibromofluoromethane	7.92	113	234181	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
50) Toluene-d8	10.34	98	879393	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.64	95	270485	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	

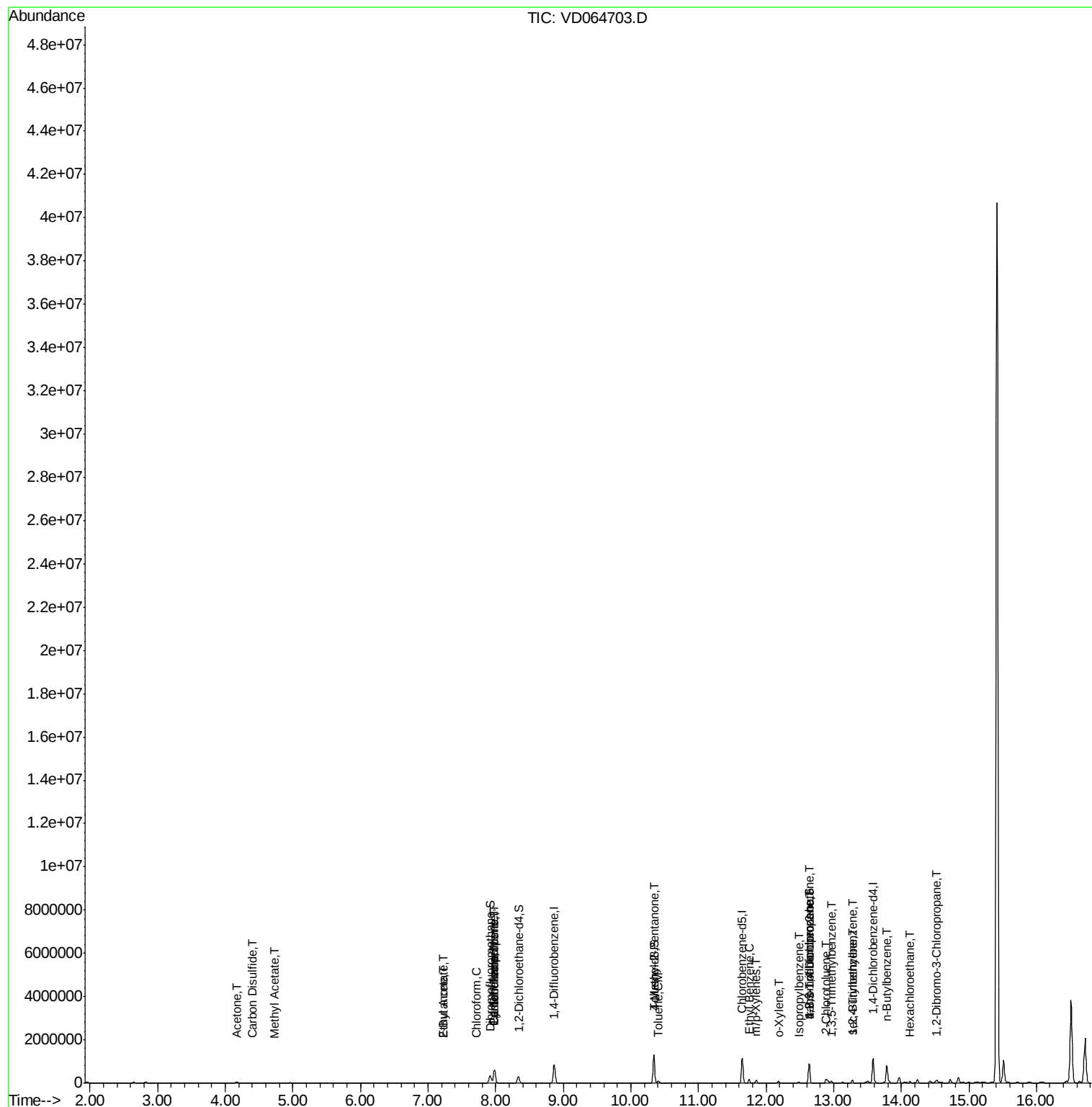
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	66459	73.056	ug/l	96
17) Carbon Disulfide	4.40	76	33456	2.501	ug/l	98
18) Methyl Acetate	4.72	43	7530	3.226	ug/l #	68
20) Methylene Chloride	4.96	84	18126	Below Cal		88
25) 2-Butanone	7.22	43	21773	19.104	ug/l	95
30) Chloroform	7.71	83	11140	1.375	ug/l	98
31) Cyclohexane	7.98	56	9960	1.288	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	34340	4.860	ug/l #	51
37) Ethyl Acetate	7.22	43	21773	7.843	ug/l #	70
38) Carbon Tetrachloride	7.98	117	43067	5.716	ug/l #	18
51) 4-Methyl-2-Pentanone	10.34	43	4628	1.695	ug/l #	1
52) Toluene	10.40	92	35701	2.821	ug/l	96
67) Ethyl Benzene	11.75	91	120766	4.850	ug/l	92
68) m/p-Xylenes	11.85	106	42803	4.454	ug/l	99
69) o-Xylene	12.18	106	21352	2.460	ug/l	95
73) Isopropylbenzene	12.48	105	35327	1.627	ug/l	100
76) 1,2,3-Trichloropropane	12.64	75	145342	60.562	ug/l #	100
79) 2-Chlorotoluene	12.88	91	21031	1.511	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.97	105	41541	2.328	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.64	75	145342	126.663	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.28	105	76960	4.331	ug/l	97
85) sec-Butylbenzene	13.28	105	76960	3.624	ug/l #	55
89) n-Butylbenzene	13.78	91	78184	4.276	ug/l #	41
90) Hexachloroethane	14.13	117	4017	1.036	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.53	75	3988	7.210	ug/l #	1

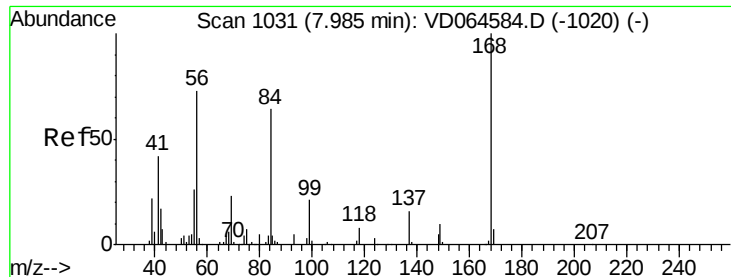
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD123119\
Data File : VD064703.D
Acq On : 31 Dec 2019 19:07
Operator : VA/SY
Sample : K6465-02
Misc : 6.50G/5.00ml/MSVOA_D/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
GP-11-(5-6)

Quant Time: Jan 01 00:48:04 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
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: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

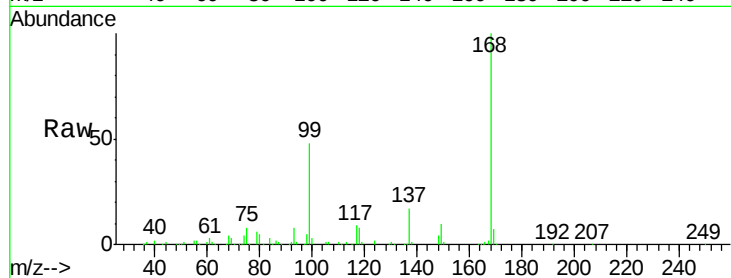
GP-11-(5-6)

Tgt Ion:168 Resp: 470213

Ion Ratio Lower Upper

168 100

99 48.1 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

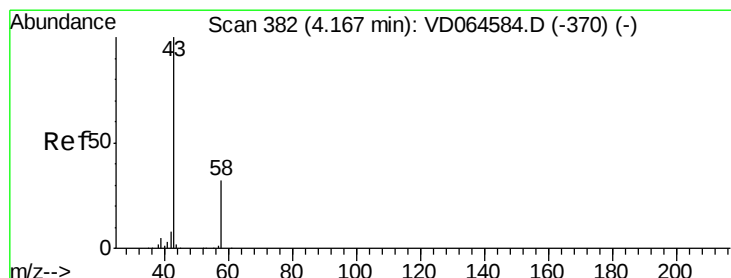
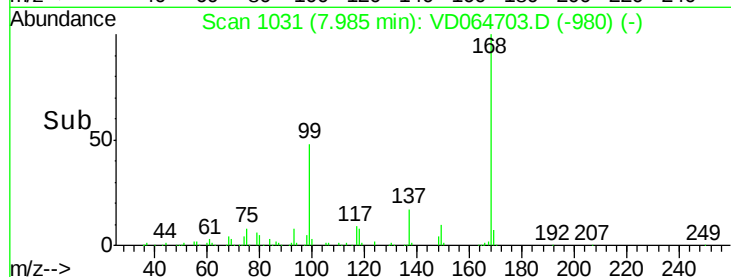
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 73.056 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064703.D

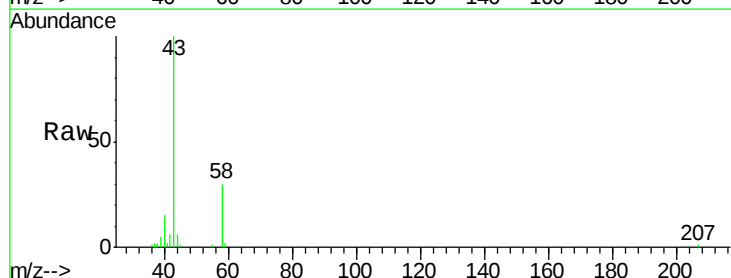
Acq: 31 Dec 2019 19:07

Tgt Ion: 43 Resp: 66459

Ion Ratio Lower Upper

43 100

58 30.2 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

25000

20000

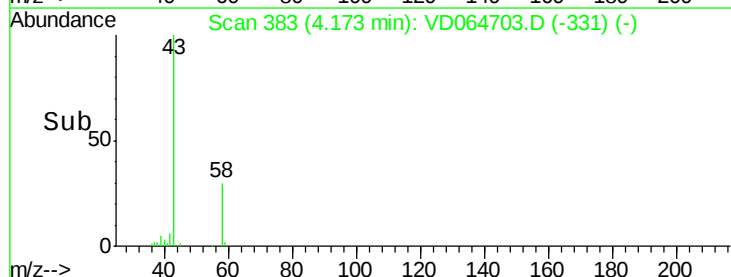
15000

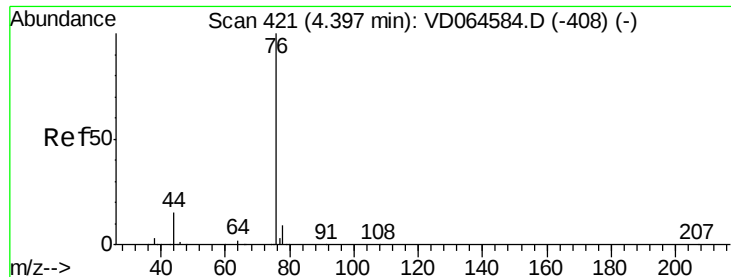
10000

5000

0

Time-->

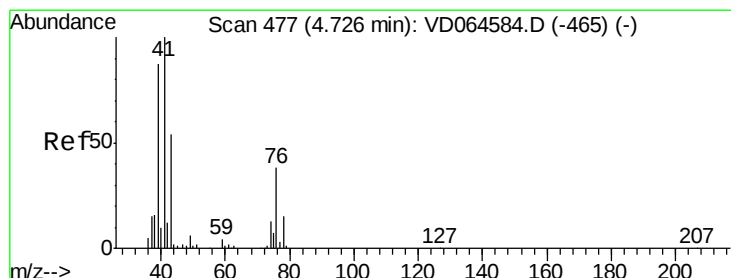
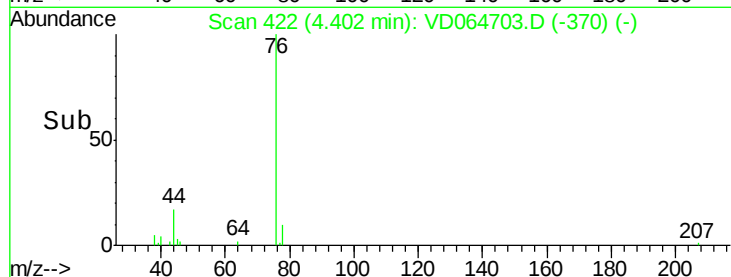
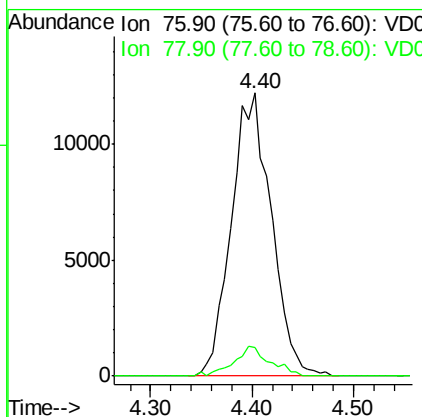
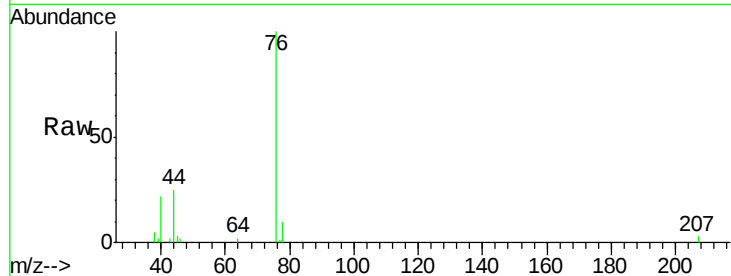




#17
Carbon Disulfide
Concen: 2.501 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

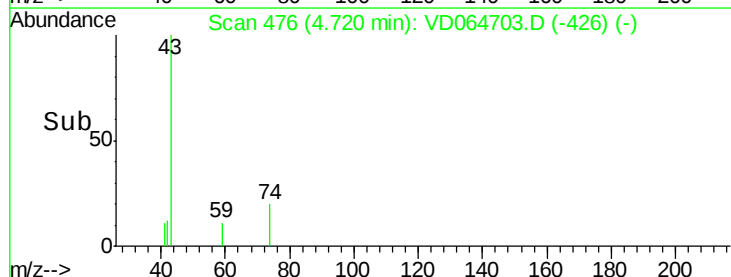
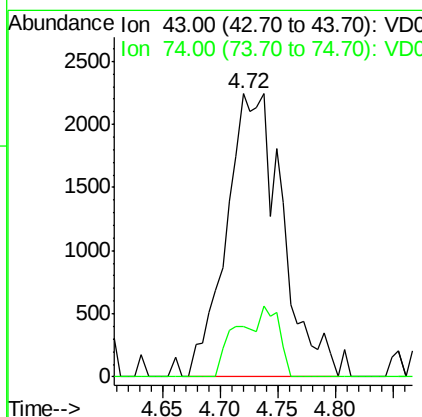
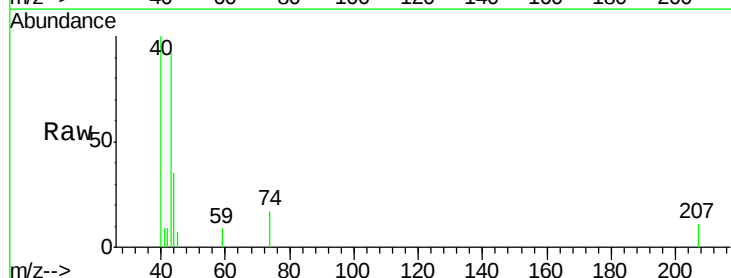
Instrument :
MSVOA_D
ClientSampleId :
GP-11-(5-6)

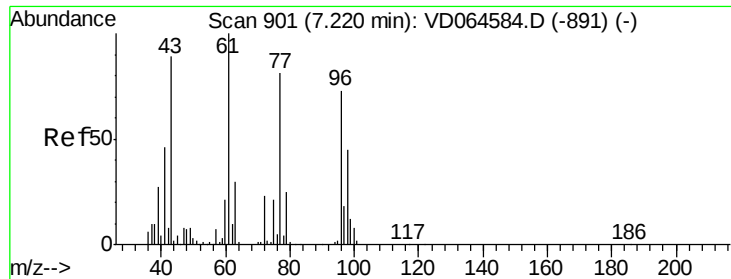
Tgt Ion: 76 Resp: 33456
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9



#18
Methyl Acetate
Concen: 3.226 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

Tgt Ion: 43 Resp: 7530
Ion Ratio Lower Upper
43 100
74 8.3 19.2 28.8#





#25

2-Butanone

Concen: 19.104 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

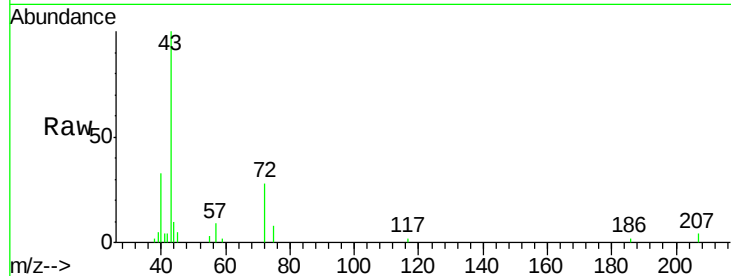
GP-11-(5-6)

Tgt Ion: 43 Resp: 21773

Ion Ratio Lower Upper

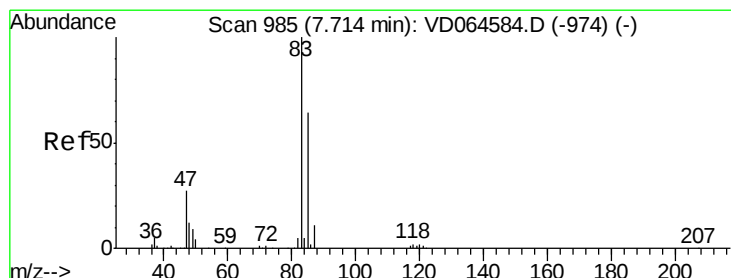
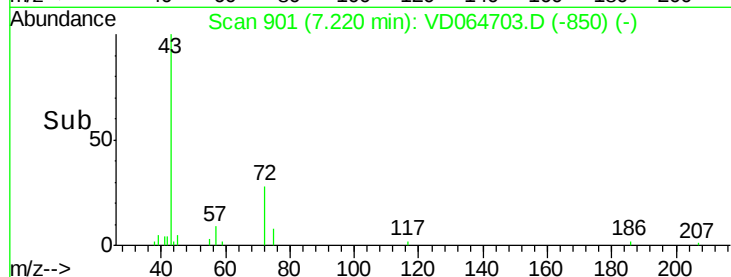
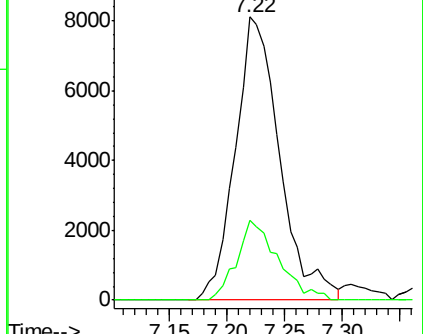
43 100

72 28.4 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#30

Chloroform

Concen: 1.375 ug/l

RT: 7.71 min Scan# 985

Delta R.T. -0.00 min

Lab File: VD064703.D

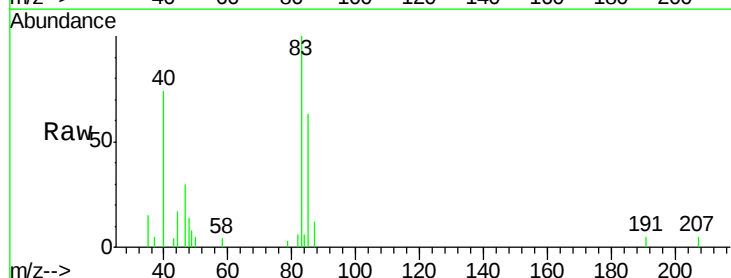
Acq: 31 Dec 2019 19:07

Tgt Ion: 83 Resp: 11140

Ion Ratio Lower Upper

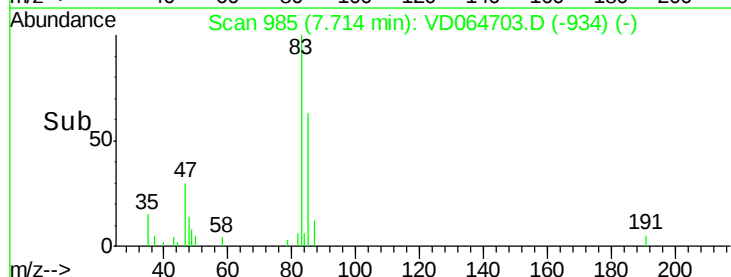
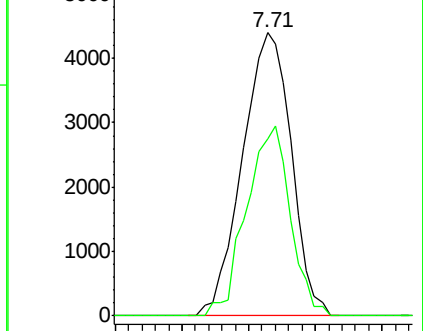
83 100

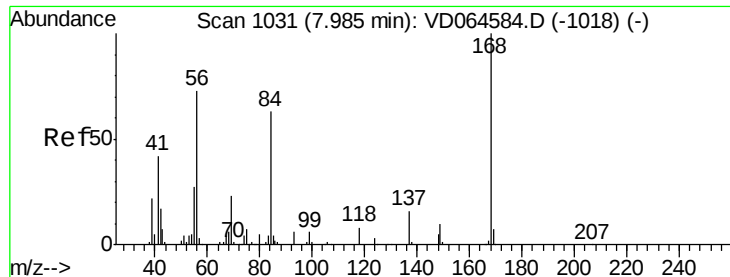
85 62.5 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

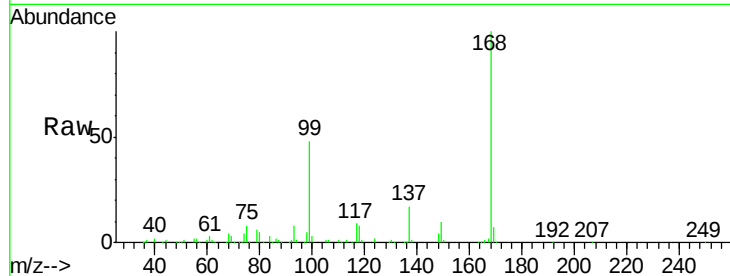




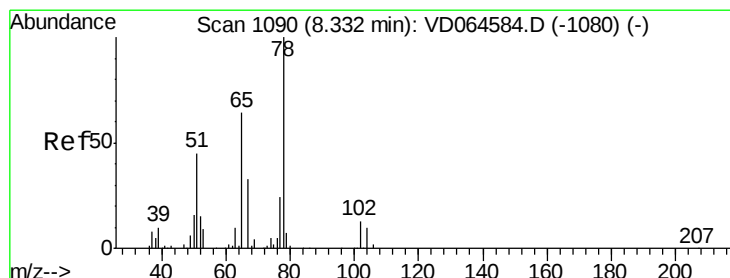
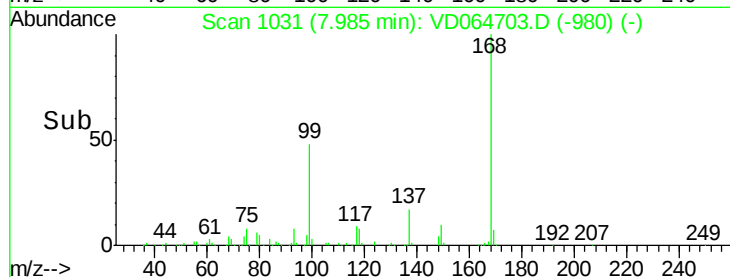
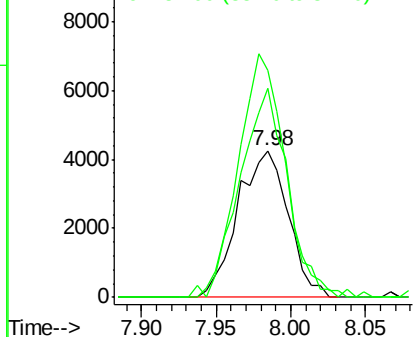
#31
Cyclohexane
Concen: 1.288 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

Instrument :
MSVOA_D
ClientSampleId :
GP-11-(5-6)

Tgt Ion: 56 Resp: 9960
Ion Ratio Lower Upper
56 100
69 155.5 24.7 37.1#
84 150.9 69.4 104.2#

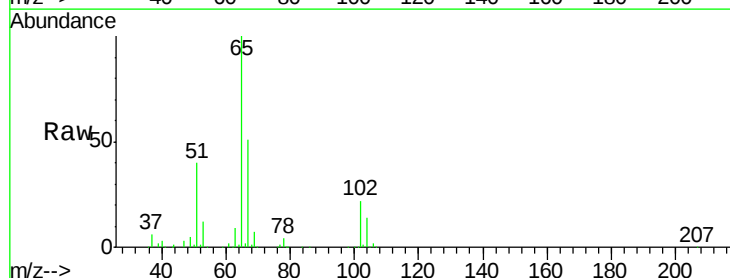


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

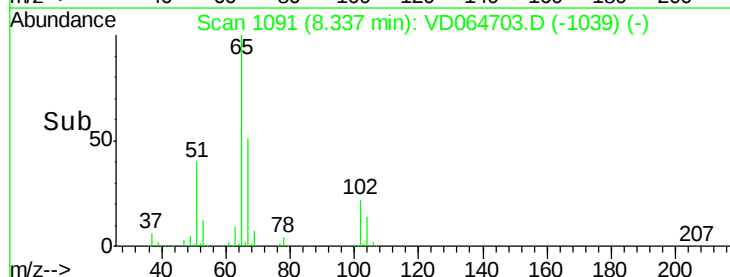
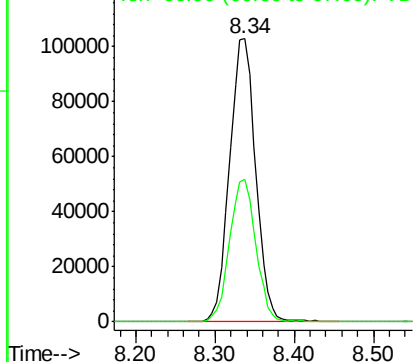


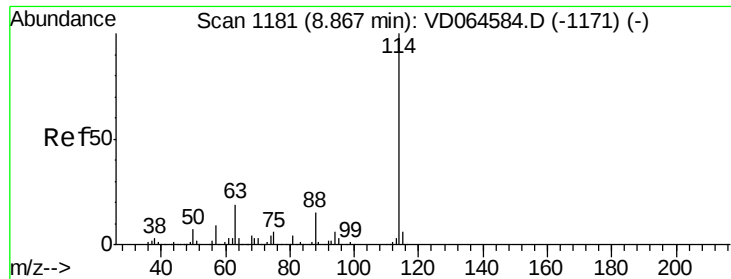
#33
1,2-Dichloroethane-d4
Concen: 56.541 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

Tgt Ion: 65 Resp: 234436
Ion Ratio Lower Upper
65 100
67 50.5 0.0 106.2



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

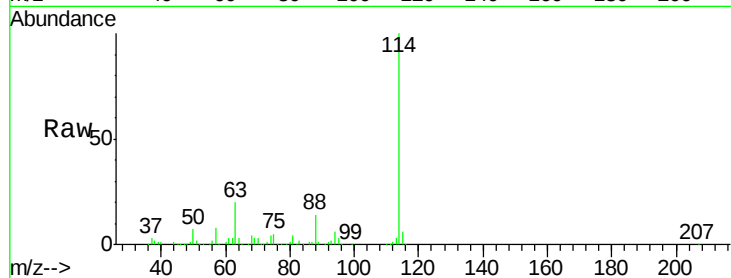




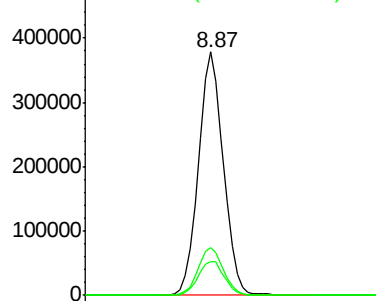
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

Instrument :
 MSVOA_D
 ClientSampleId :
 GP-11-(5-6)

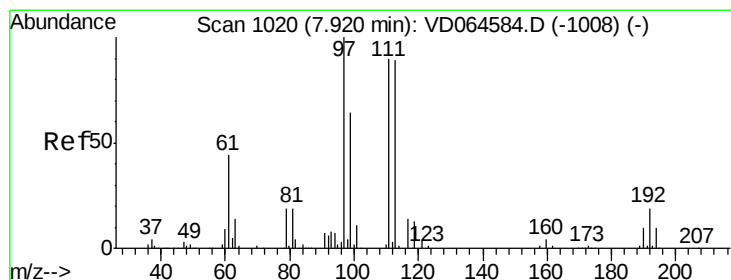
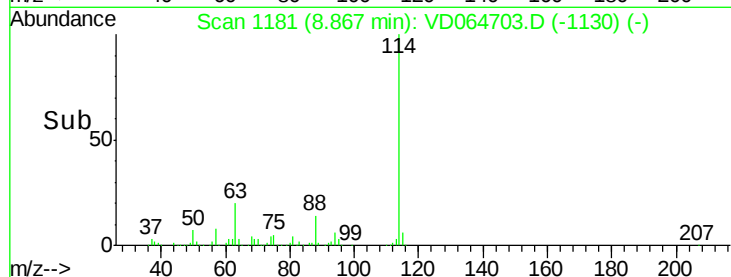
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.0
88	14.0	0.0	29.2



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

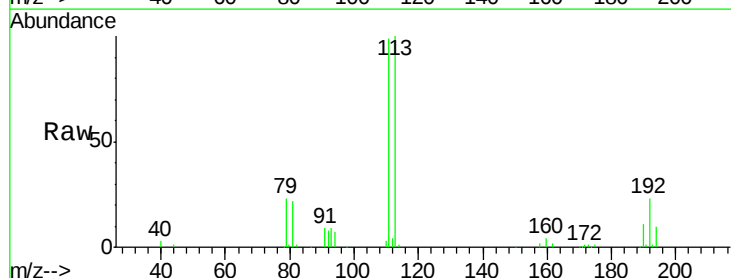


Time-->

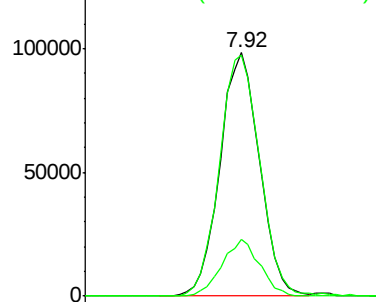


#35
 Dibromofluoromethane
 Concen: 51.991 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

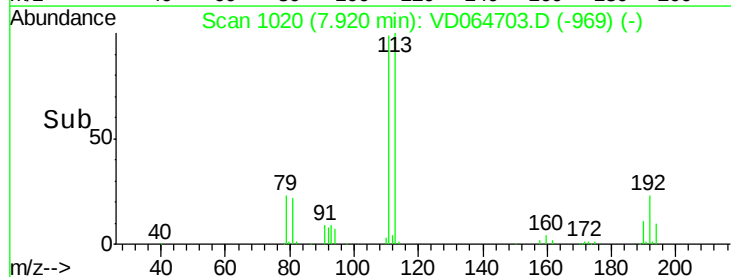
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.6	121.0
192	22.3	17.9	26.9

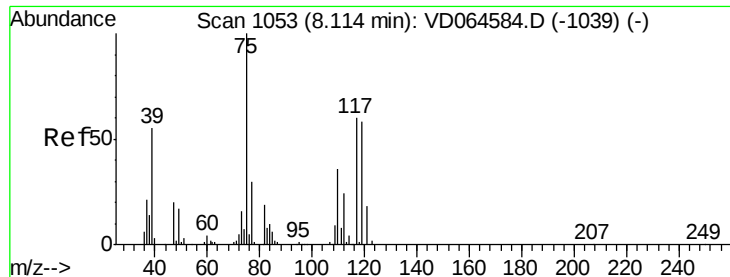


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V



Time-->





#36

1,1-Dichloropropene

Concen: 4.860 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

GP-11-(5-6)

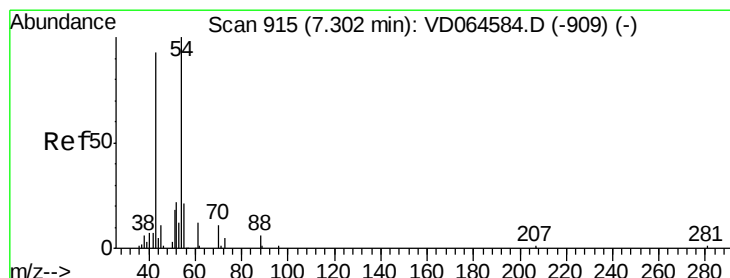
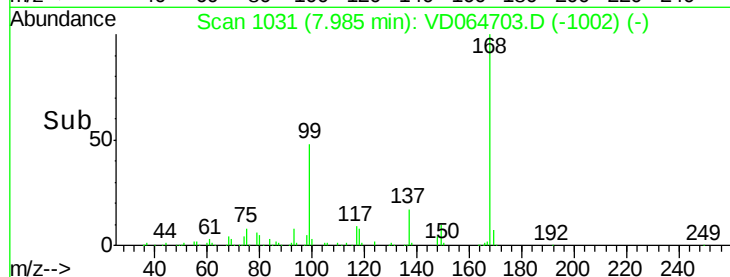
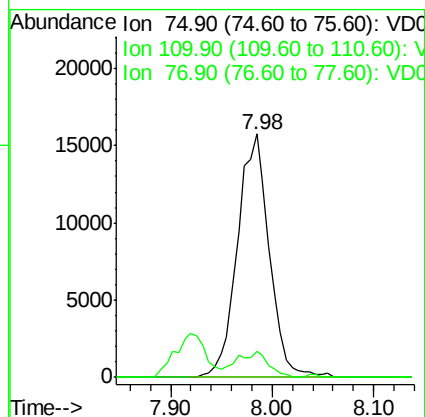
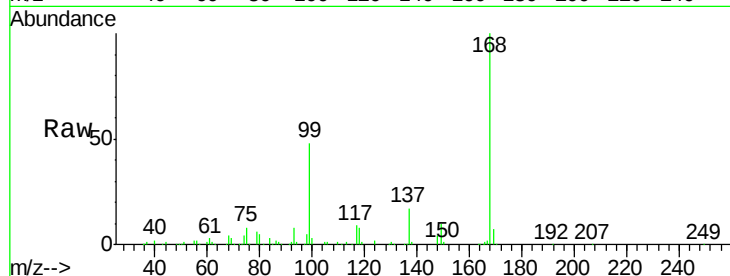
Tgt Ion: 75 Resp: 34340

Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.1#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 7.843 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.08 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

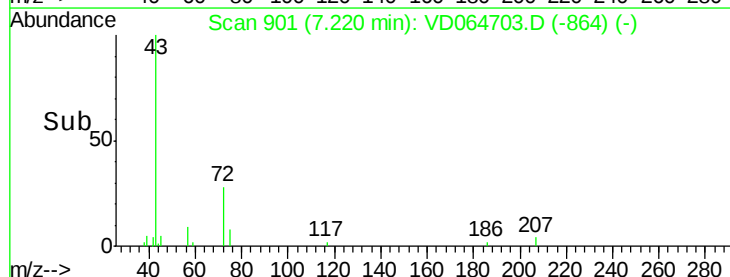
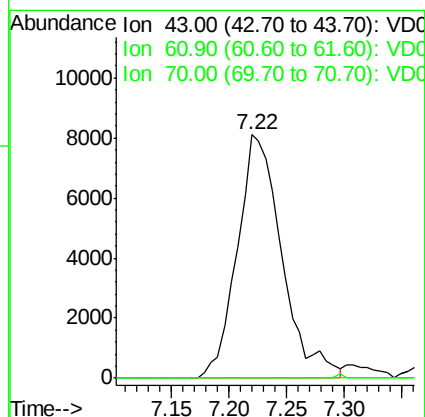
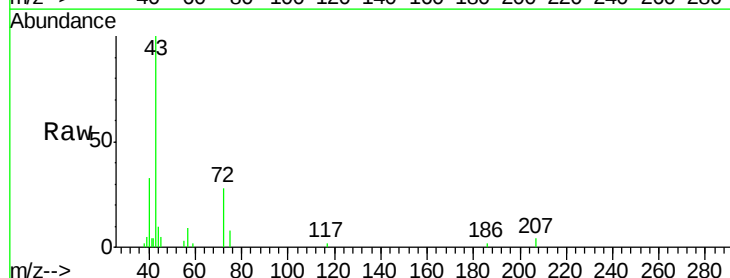
Tgt Ion: 43 Resp: 21773

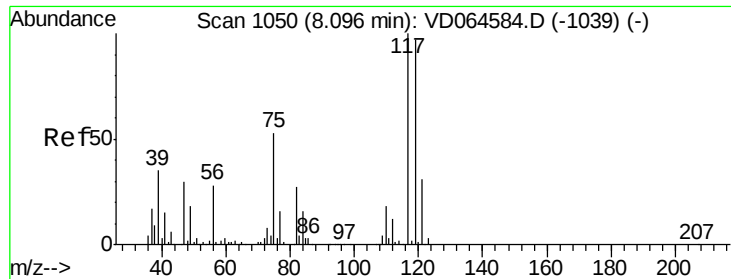
Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 5.716 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

GP-11-(5-6)

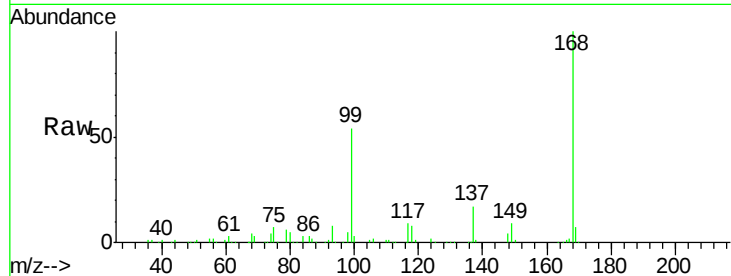
Tgt Ion:117 Resp: 43067

Ion Ratio Lower Upper

117 100

119 8.2 77.3 115.9#

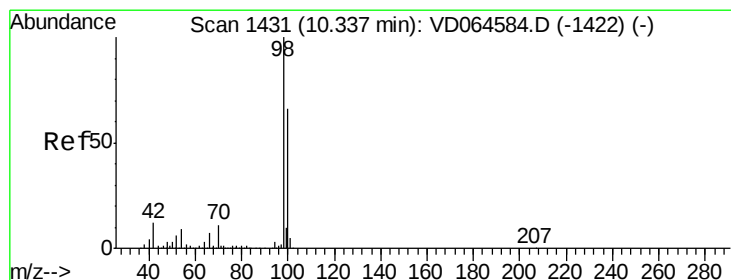
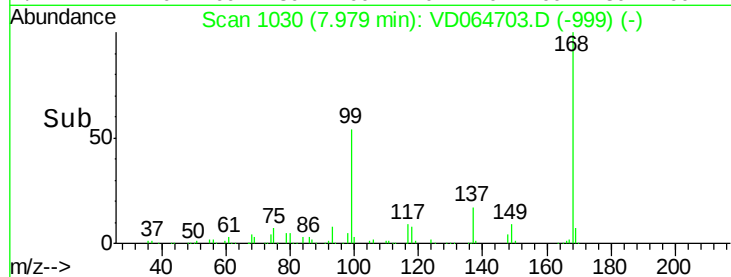
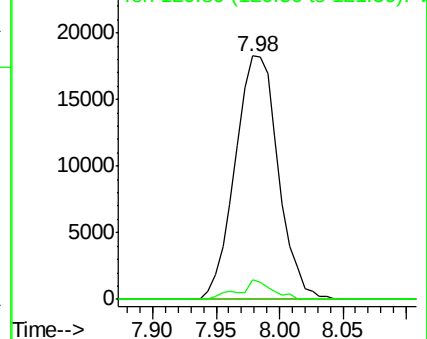
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.977 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064703.D

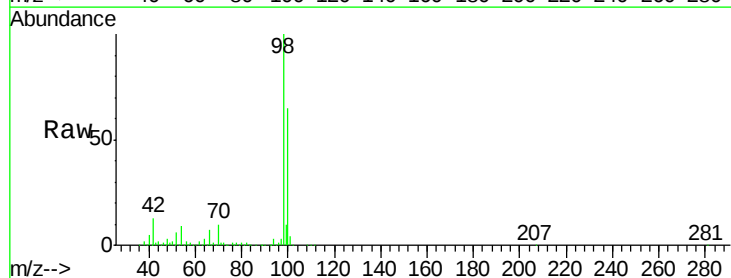
Acq: 31 Dec 2019 19:07

Tgt Ion: 98 Resp: 879393

Ion Ratio Lower Upper

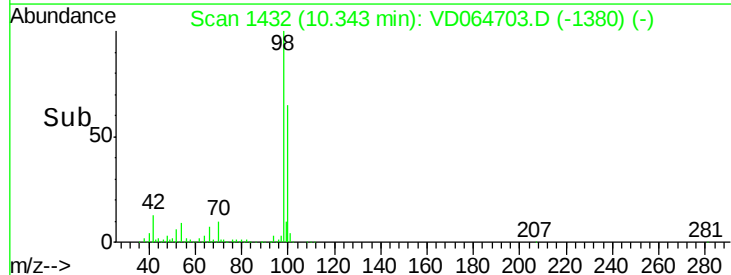
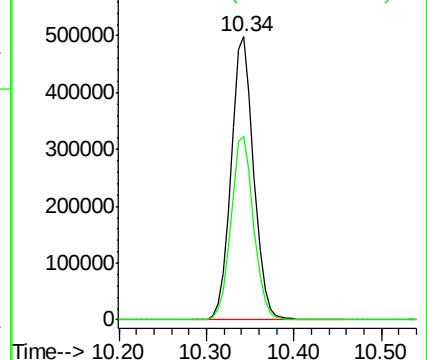
98 100

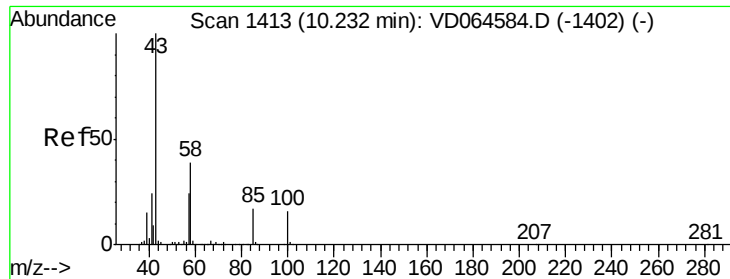
100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

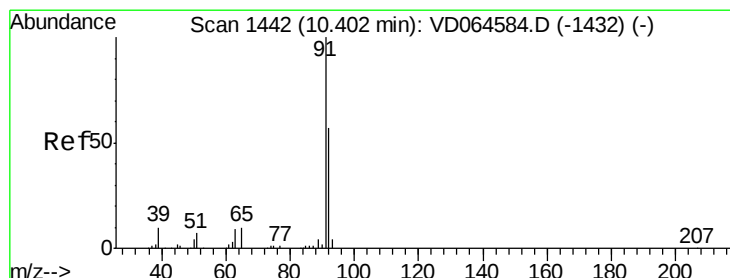
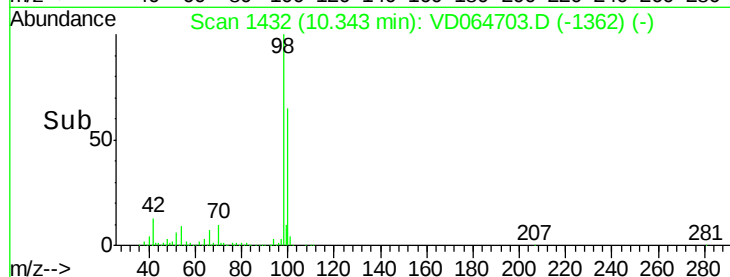
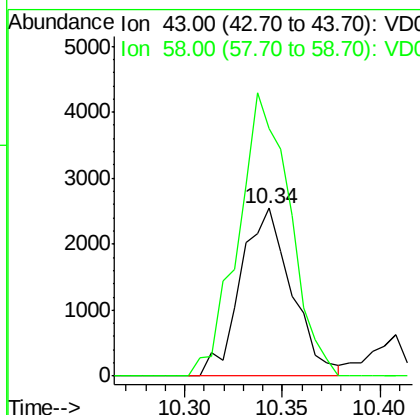
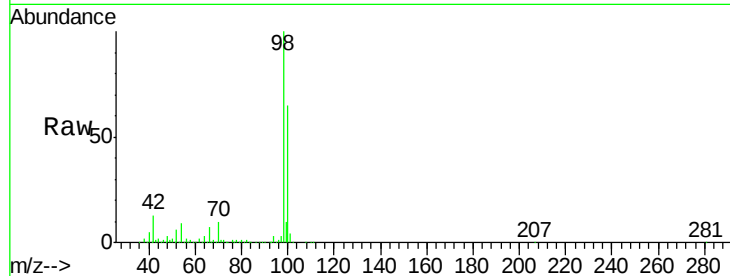




#51
 4-Methyl-2-Pentanone
 Concen: 1.695 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.11 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

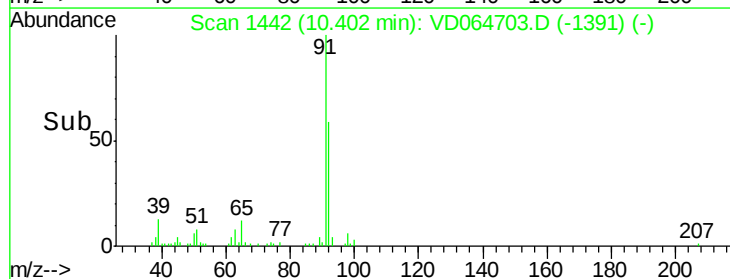
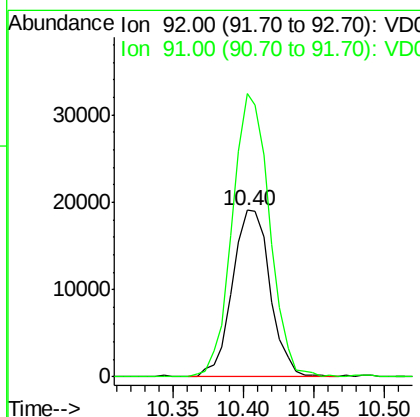
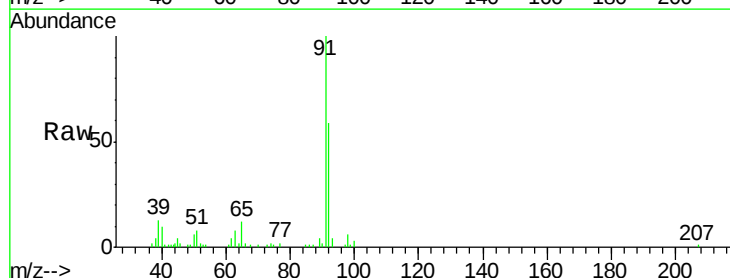
Instrument :
 MSVOA_D
 ClientSampleId :
 GP-11-(5-6)

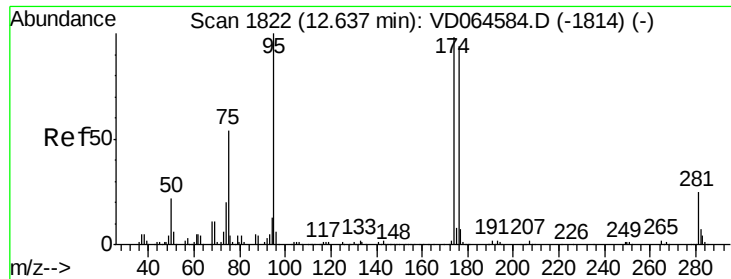
Tgt Ion: 43 Resp: 4628
 Ion Ratio Lower Upper
 43 100
 58 169.9 30.2 45.2#



#52
 Toluene
 Concen: 2.821 ug/l
 RT: 10.40 min Scan# 1442
 Delta R.T. -0.00 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

Tgt Ion: 92 Resp: 35701
 Ion Ratio Lower Upper
 92 100
 91 167.4 138.7 208.1

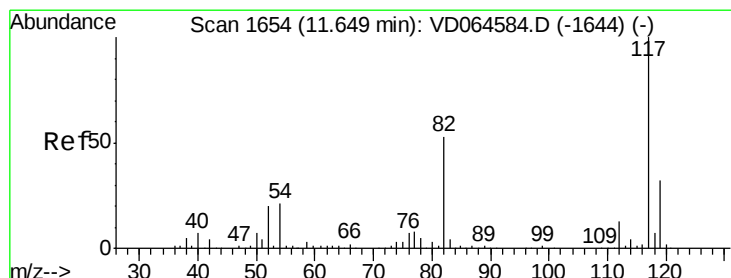
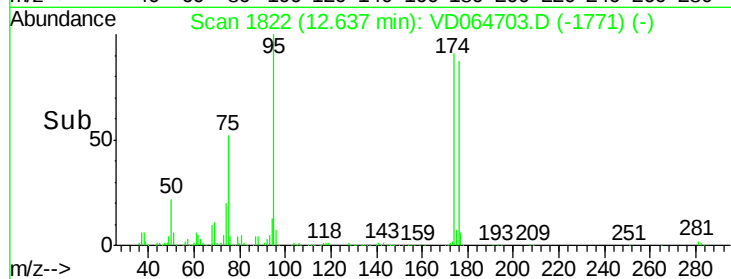
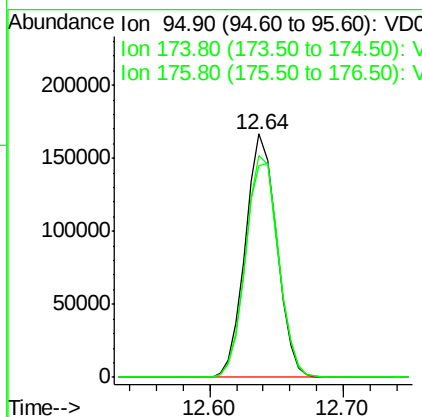
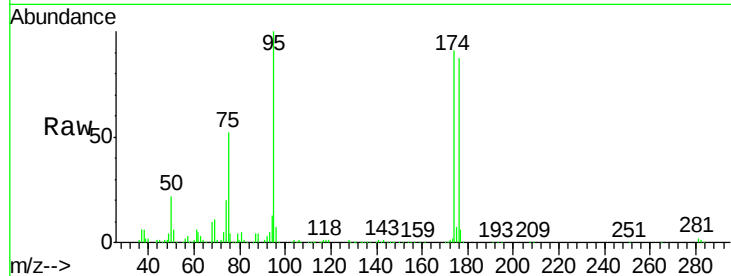




#62
4-Bromofluorobenzene
Concen: 49.586 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

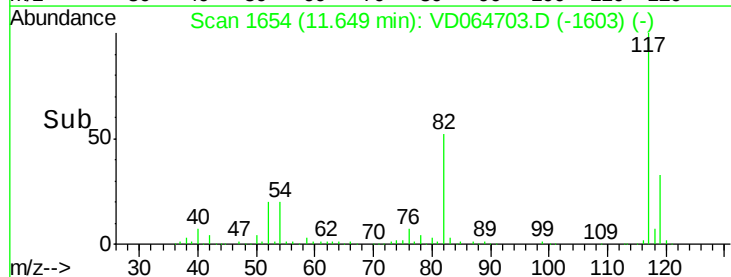
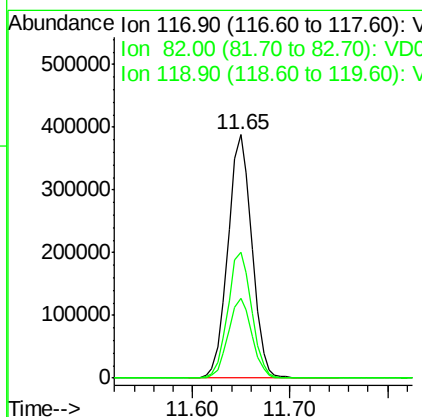
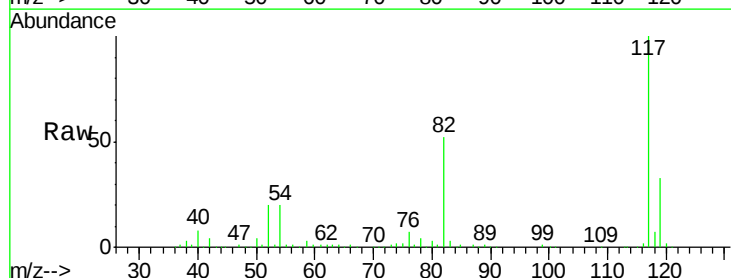
Instrument :
MSVOA_D
ClientSampleId :
GP-11-(5-6)

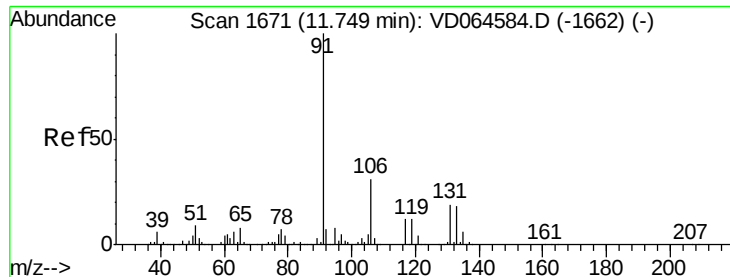
Tgt Ion: 95 Resp: 270485
Ion Ratio Lower Upper
95 100
174 95.1 0.0 193.2
176 93.2 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

Tgt Ion: 117 Resp: 660928
Ion Ratio Lower Upper
117 100
82 51.6 42.2 63.4
119 32.5 26.0 39.0





#67

Ethyl Benzene

Concen: 4.850 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

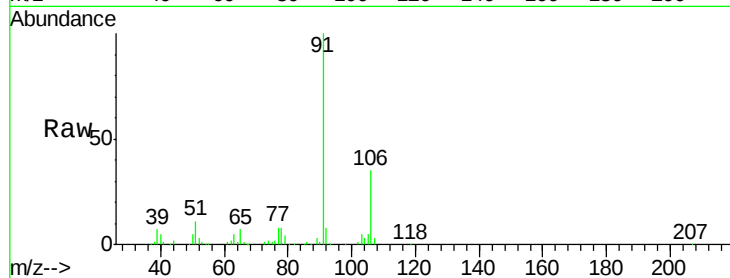
GP-11-(5-6)

Tgt Ion: 91 Resp: 120766

Ion Ratio Lower Upper

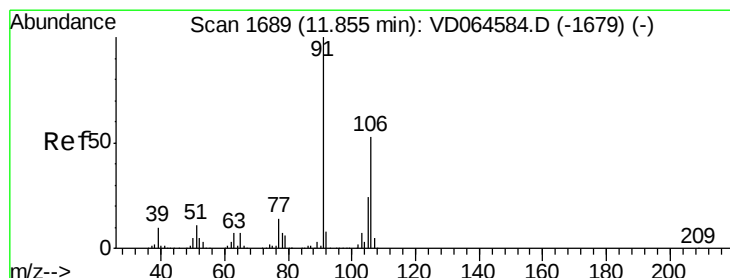
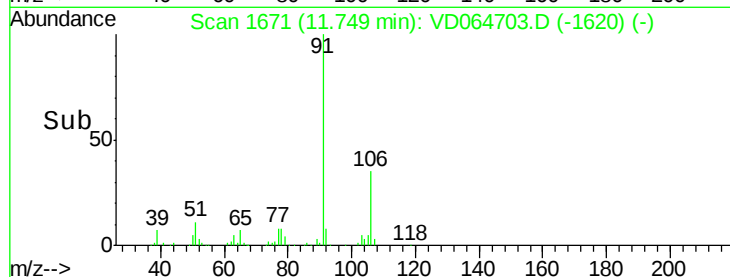
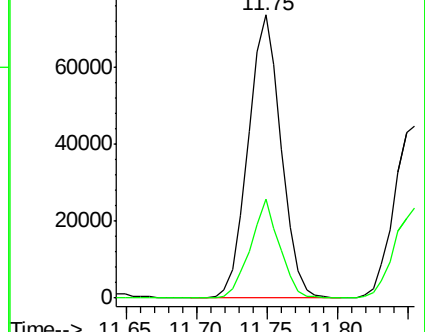
91 100

106 35.0 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: 4.454 ug/l

RT: 11.85 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064703.D

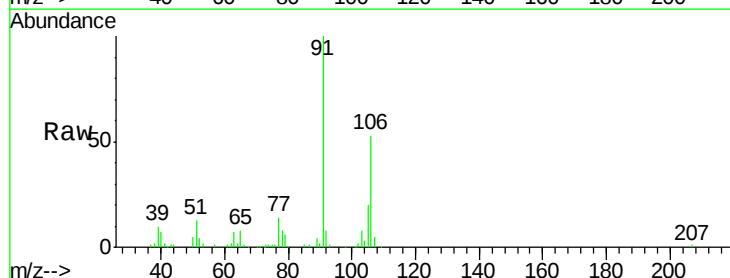
Acq: 31 Dec 2019 19:07

Tgt Ion: 106 Resp: 42803

Ion Ratio Lower Upper

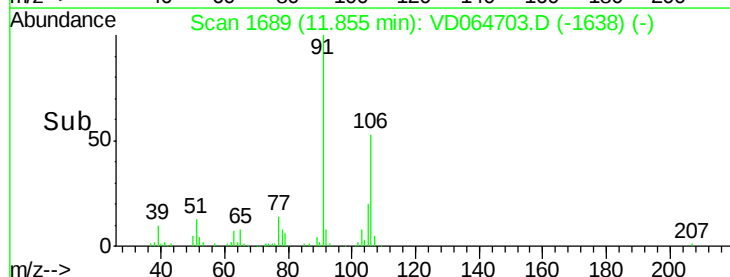
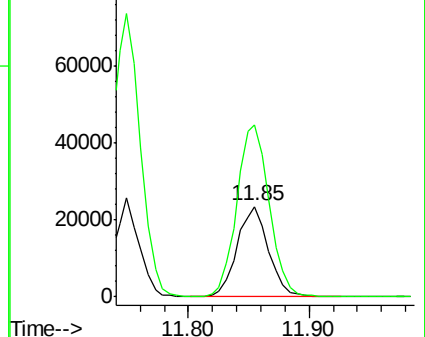
106 100

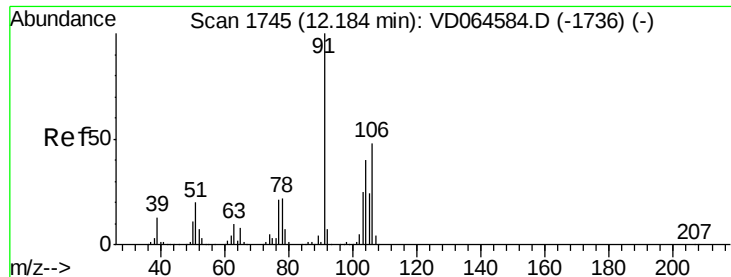
91 196.3 156.3 234.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

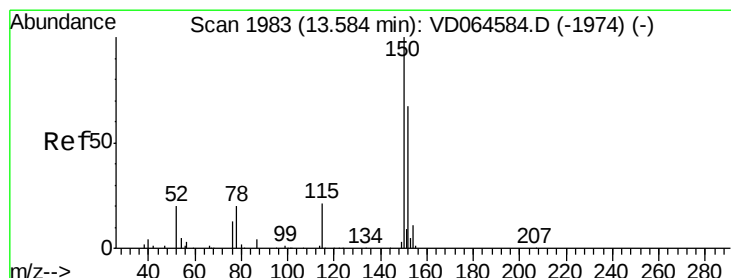
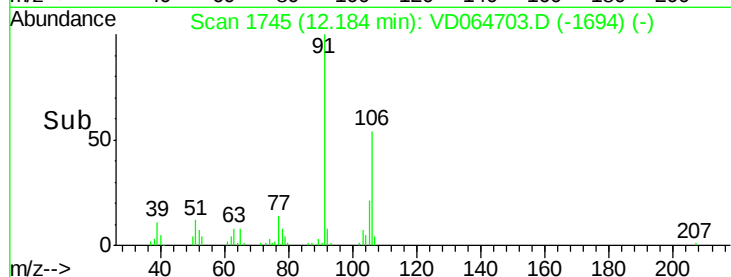
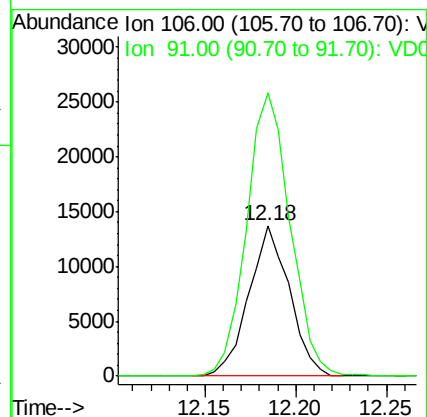
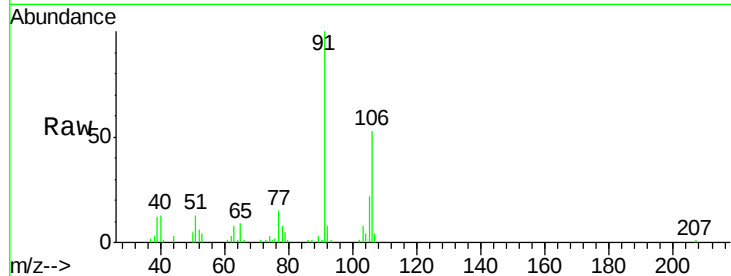




#69
o-Xylene
Concen: 2.460 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

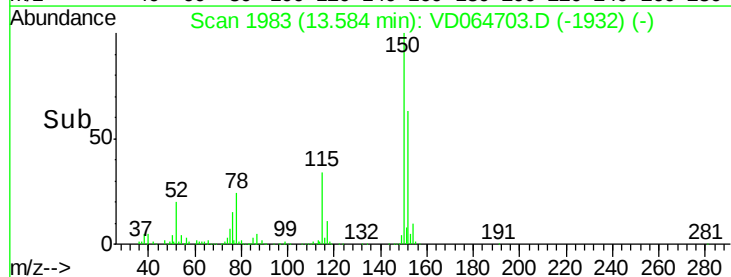
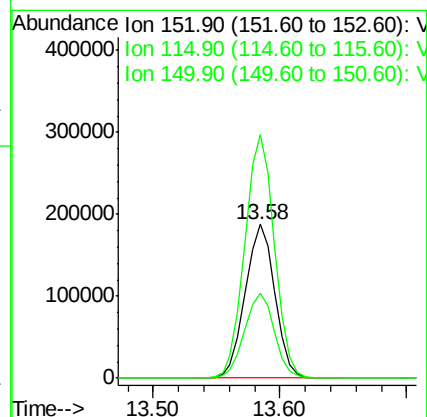
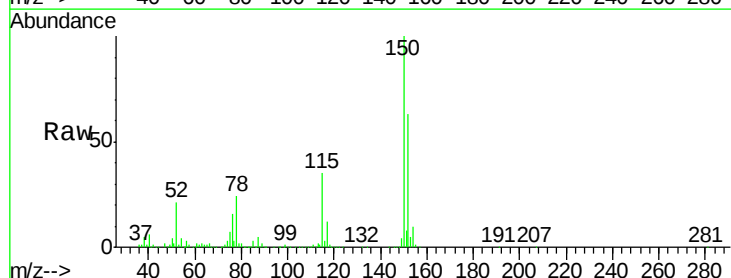
Instrument :
MSVOA_D
ClientSampleId :
GP-11-(5-6)

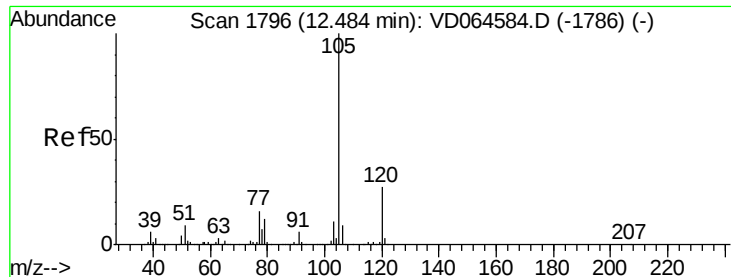
Tgt Ion:106 Resp: 21352
Ion Ratio Lower Upper
106 100
91 202.4 104.8 314.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064703.D
Acq: 31 Dec 2019 19:07

Tgt Ion:152 Resp: 303915
Ion Ratio Lower Upper
152 100
115 55.1 27.8 83.4
150 157.8 0.0 351.4





#73

Isopropylbenzene

Concen: 1.627 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

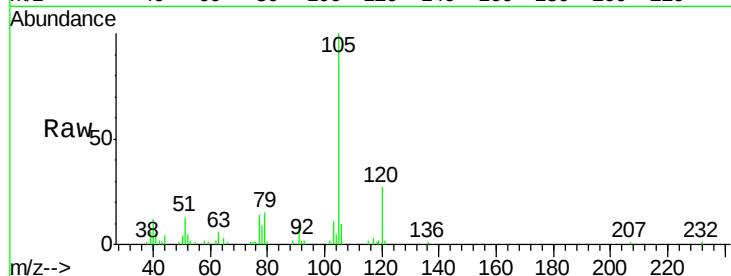
GP-11-(5-6)

Tgt Ion: 105 Resp: 35327

Ion Ratio Lower Upper

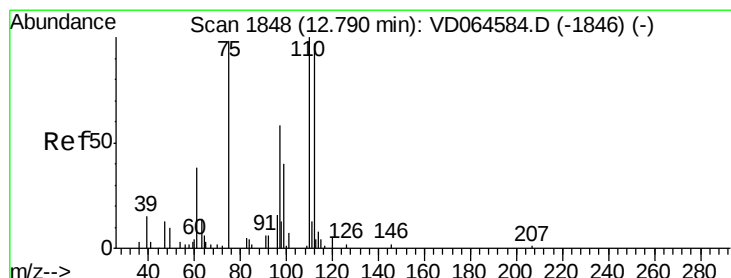
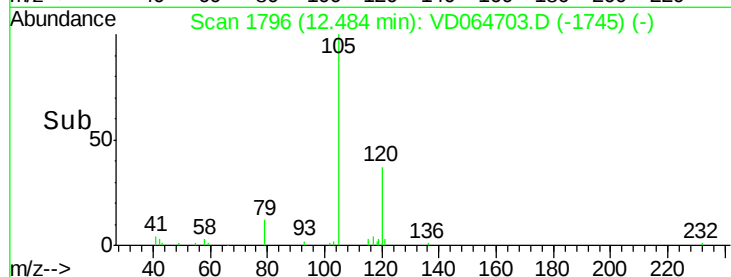
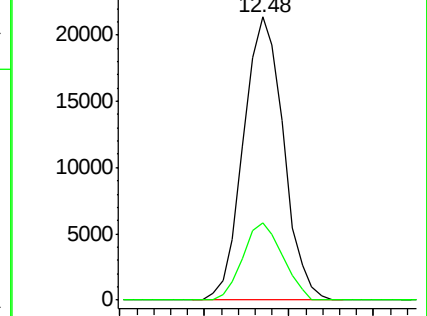
105 100

120 27.2 13.5 40.5



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: 60.562 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064703.D

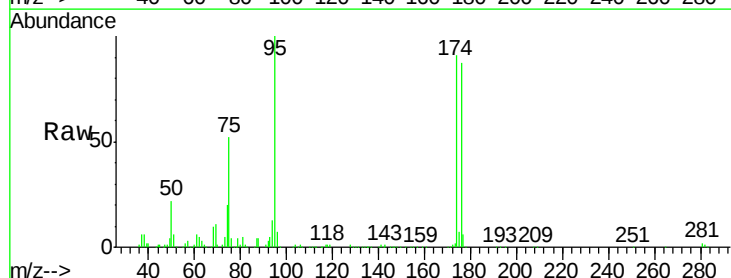
Acq: 31 Dec 2019 19:07

Tgt Ion: 75 Resp: 145342

Ion Ratio Lower Upper

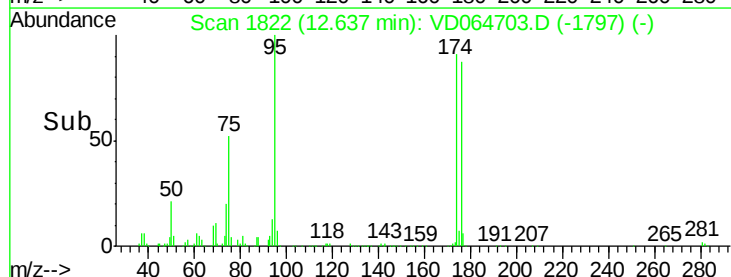
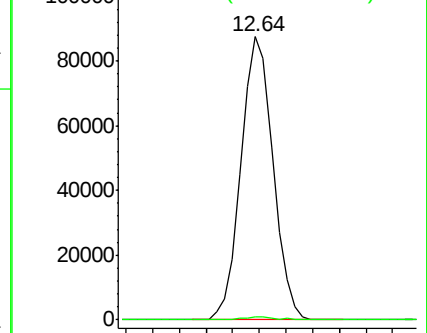
75 100

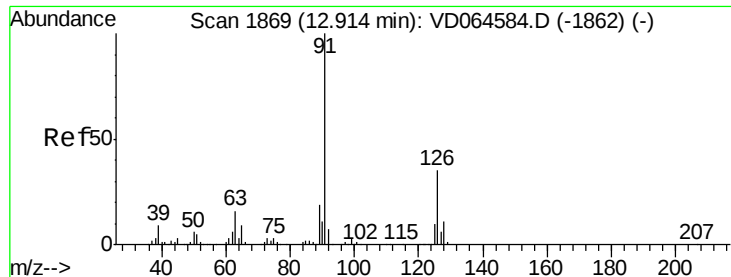
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#79

2-Chlorotoluene

Concen: 1.511 ug/l

RT: 12.88 min Scan# 1864

Delta R.T. -0.03 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

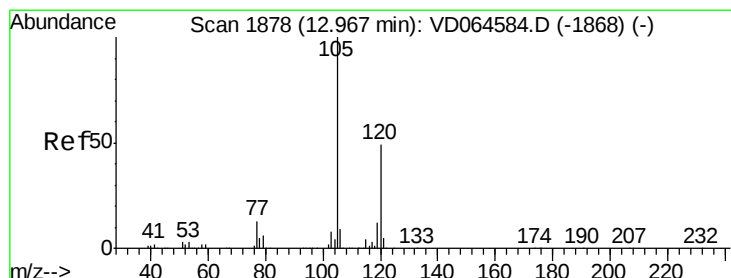
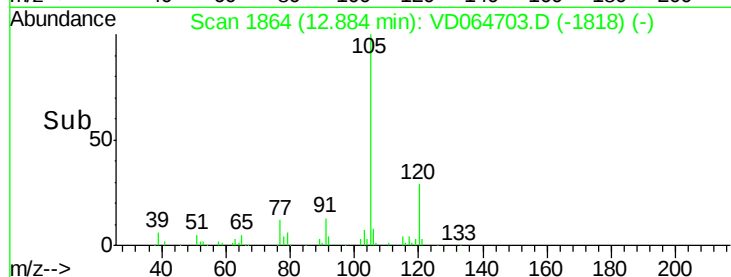
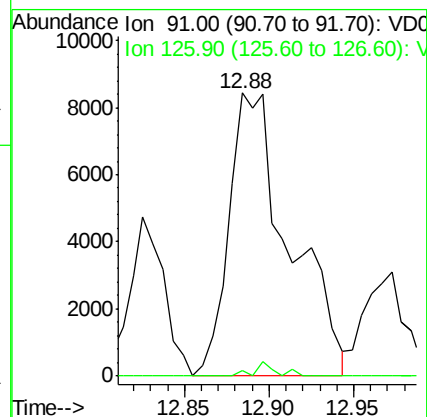
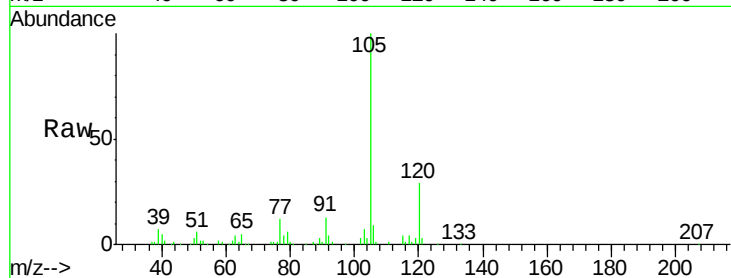
GP-11-(5-6)

Tgt Ion: 91 Resp: 21031

Ion Ratio Lower Upper

91 100

126 1.6 17.8 53.5#



#80

1,3,5-Trimethylbenzene

Concen: 2.328 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD064703.D

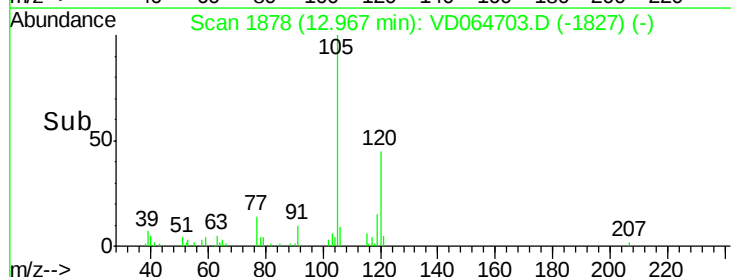
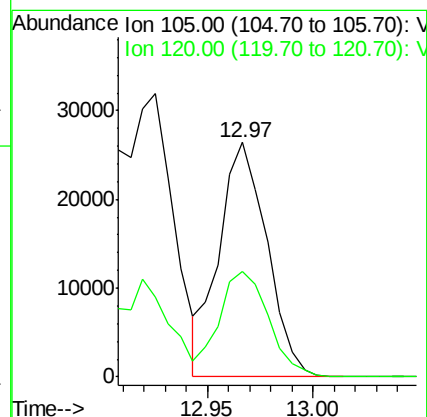
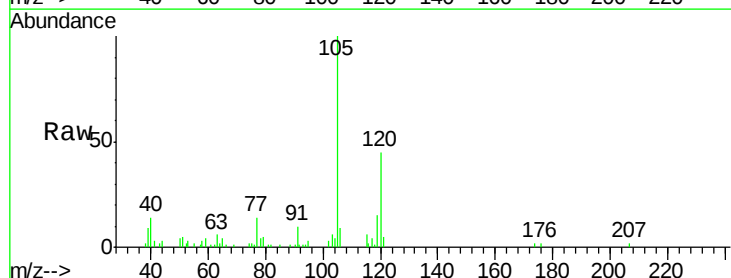
Acq: 31 Dec 2019 19:07

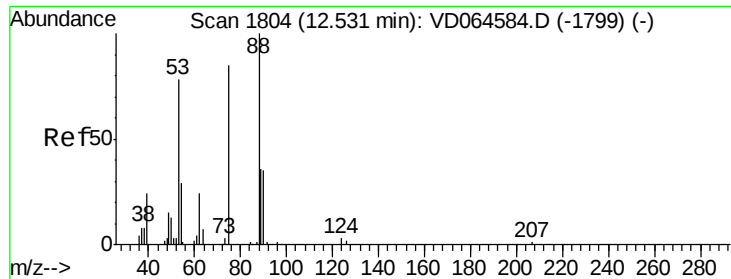
Tgt Ion: 105 Resp: 41541

Ion Ratio Lower Upper

105 100

120 46.4 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 126.663 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

GP-11-(5-6)

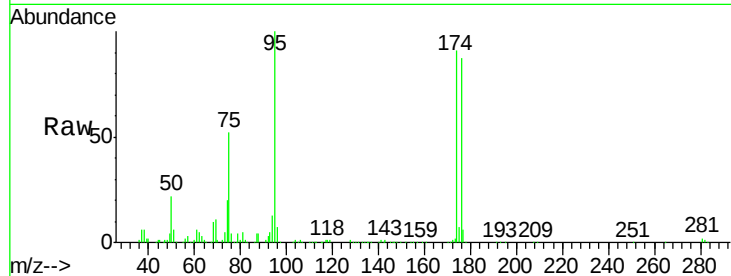
Tgt Ion: 75 Resp: 145342

Ion Ratio Lower Upper

75 100

53 0.1 78.8 118.2#

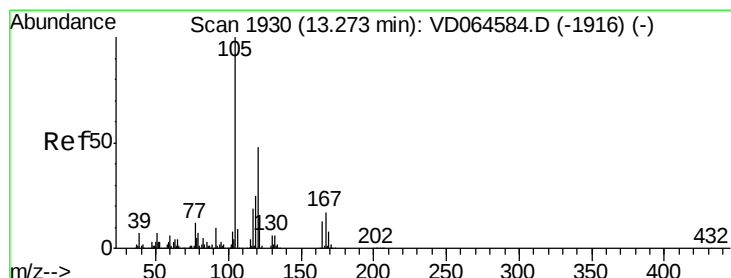
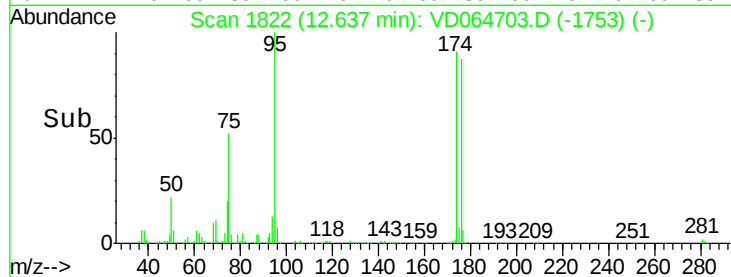
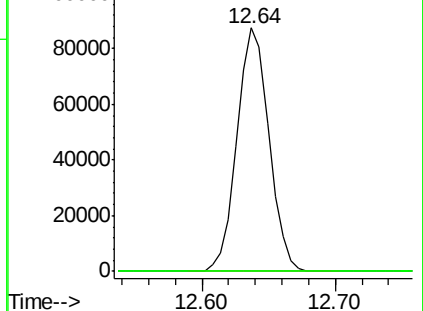
89 0.0 38.3 57.5#



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: 4.331 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064703.D

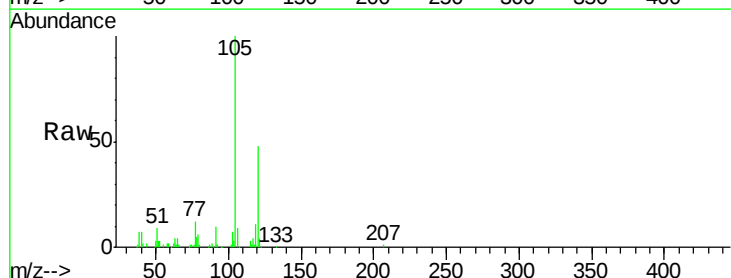
Acq: 31 Dec 2019 19:07

Tgt Ion: 105 Resp: 76960

Ion Ratio Lower Upper

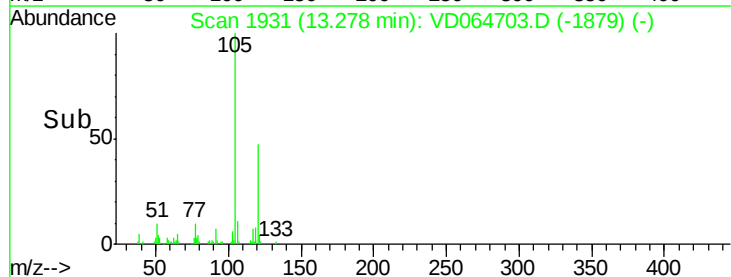
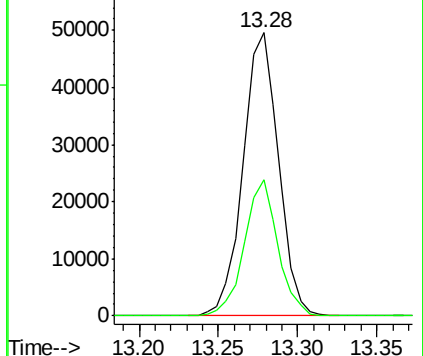
105 100

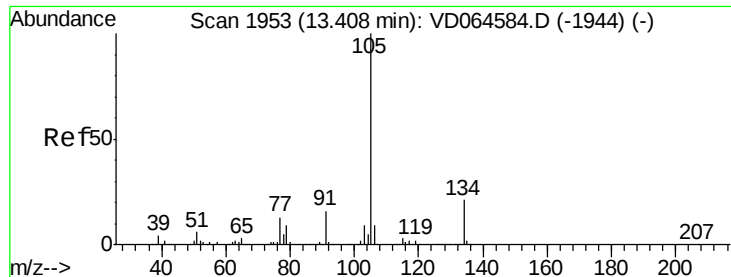
120 45.4 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

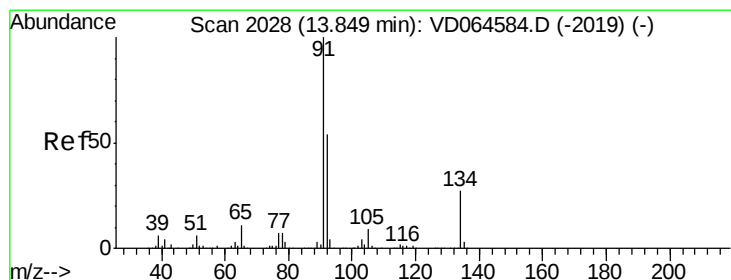
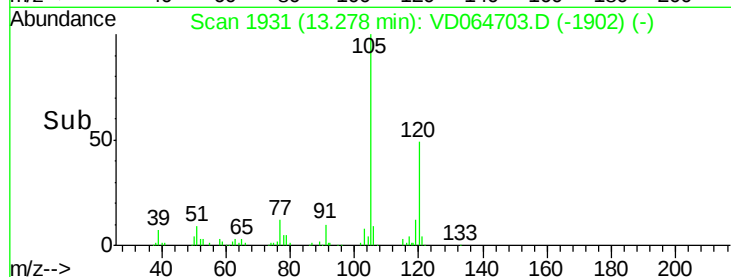
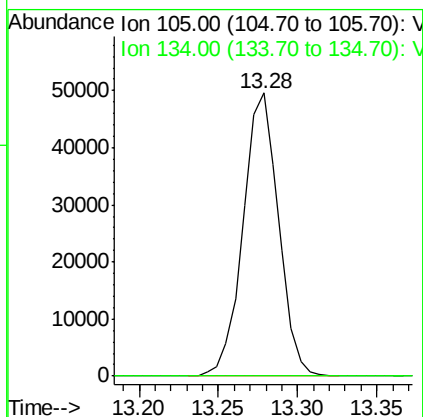
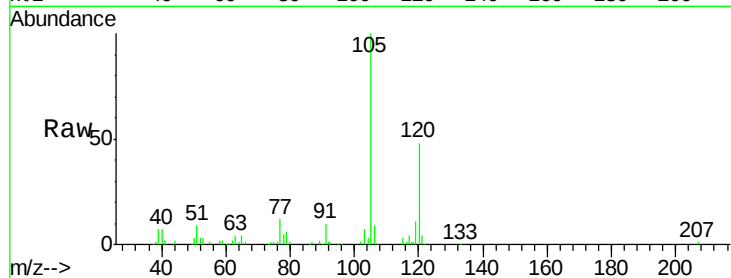




#85
 sec-Butylbenzene
 Concen: 3.624 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. -0.13 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

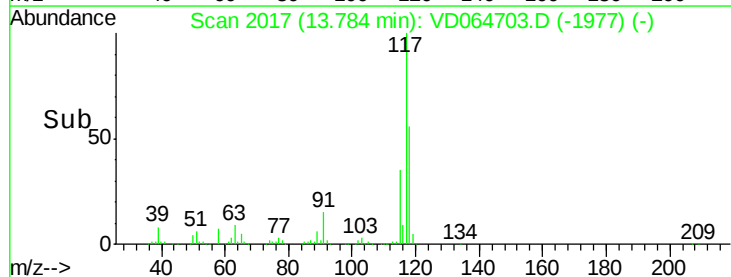
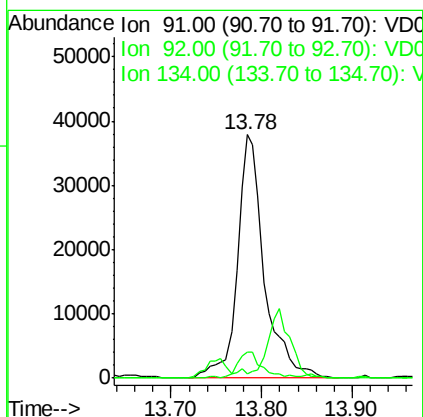
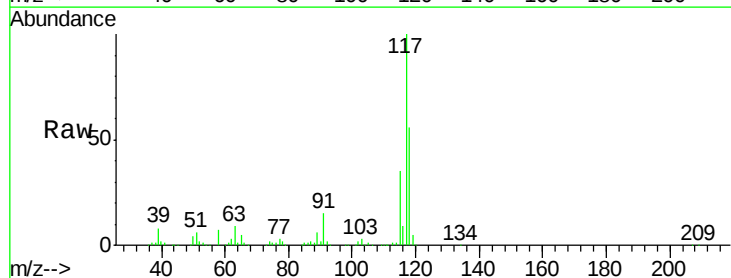
Instrument :
 MSVOA_D
 ClientSampled :
 GP-11-(5-6)

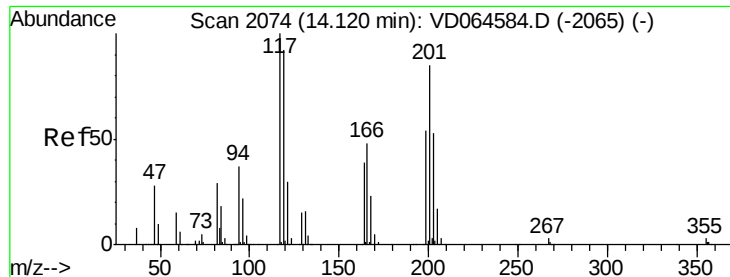
Tgt Ion: 105 Resp: 76960
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.6 31.8#



#89
 n-Butylbenzene
 Concen: 4.276 ug/l
 RT: 13.78 min Scan# 2017
 Delta R.T. -0.06 min
 Lab File: VD064703.D
 Acq: 31 Dec 2019 19:07

Tgt Ion: 91 Resp: 78184
 Ion Ratio Lower Upper
 91 100
 92 9.7 26.8 80.4#
 134 0.0 14.0 41.9#





#90

Hexachloroethane

Concen: 1.036 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

Instrument :

MSVOA_D

ClientSampleId :

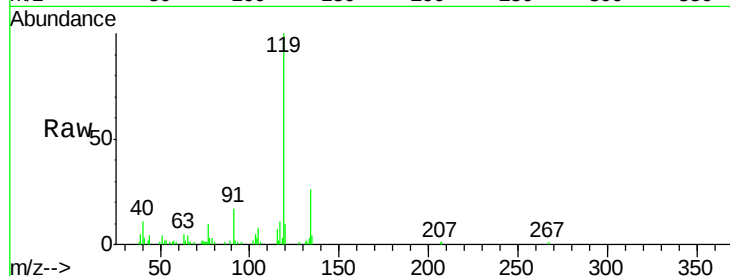
GP-11-(5-6)

Tgt Ion:117 Resp: 4017

Ion Ratio Lower Upper

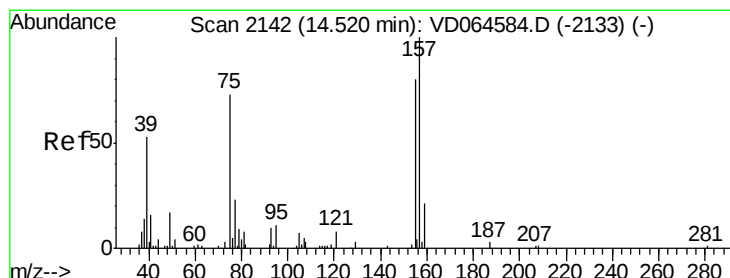
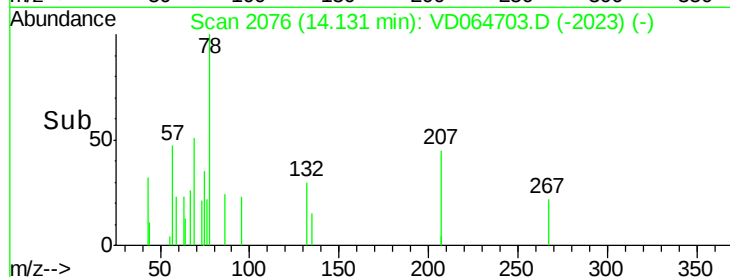
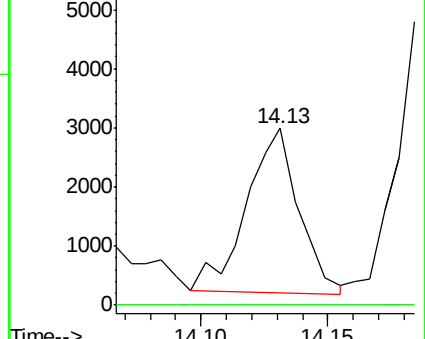
117 100

201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.210 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VD064703.D

Acq: 31 Dec 2019 19:07

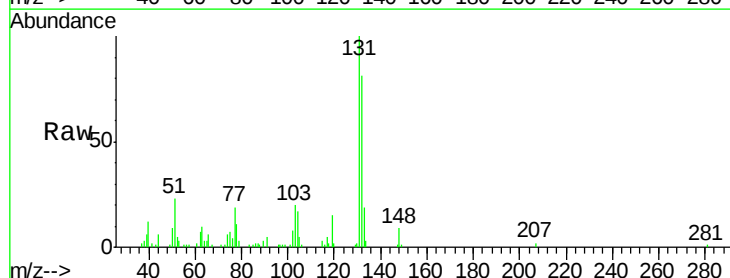
Tgt Ion: 75 Resp: 3988

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

157 0.0 64.1 192.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

