

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091720\
 Data File : VD066744.D
 Acq On : 17 Sep 2020 15:05
 Operator : VA/SY
 Sample : L4033-25
 Misc : 6.97G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 81-84

Quant Time: Sep 18 01:15:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091520S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 16:35:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	402077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	721308	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	709971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	321677	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	252302	58.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.62%	
35) Dibromofluoromethane	7.91	113	247080	55.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.74%	
50) Toluene-d8	10.34	98	893814	56.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.46%	
62) 4-Bromofluorobenzene	12.63	95	327825	60.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.56%	

Target Compounds

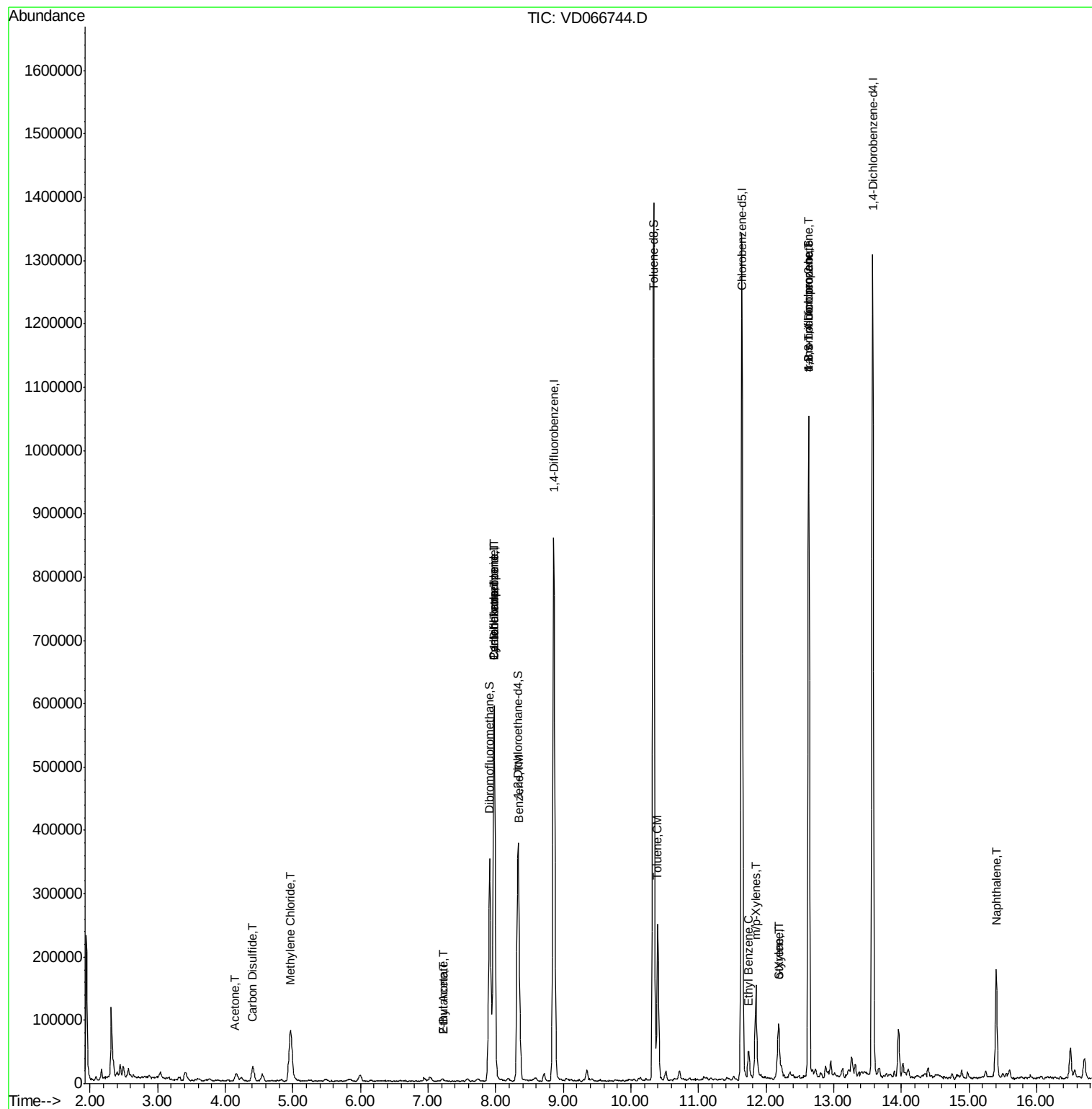
						Qvalue
2) Dichlorodifluoromethane	1.98	85	143	Below Cal	#	43
11) Tert butyl alcohol	5.21	59	2286	Below Cal	#	76
16) Acetone	4.16	43	20892	23.915	ug/l	95
17) Carbon Disulfide	4.41	76	45937	3.634	ug/l #	92
18) Methyl Acetate	4.71	43	367	Below Cal	#	52
20) Methylene Chloride	4.97	84	62355	6.938	ug/l	91
25) 2-Butanone	7.22	43	6218	5.466	ug/l #	89
31) Cyclohexane	7.98	56	14092	1.860	ug/l #	21
36) 1,1-Dichloropropene	7.98	75	36367	4.904	ug/l #	50
37) Ethyl Acetate	7.22	43	6218	2.215	ug/l #	73
38) Carbon Tetrachloride	7.98	117	46883	5.953	ug/l #	17
40) Benzene	8.34	78	117462	5.855	ug/l	92
52) Toluene	10.40	92	103434	8.047	ug/l	99
67) Ethyl Benzene	11.74	91	28493	1.070	ug/l	89
68) m/p-Xylenes	11.85	106	40123	3.987	ug/l	98
69) o-Xylene	12.18	106	15794	1.776	ug/l	96
70) Styrene	12.19	104	24831	1.586	ug/l	94
76) 1,2,3-Trichloropropane	12.63	75	180064	65.396	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	180064	141.137	ug/l #	8
95) Naphthalene	15.41	128	147580	15.349	ug/l	99

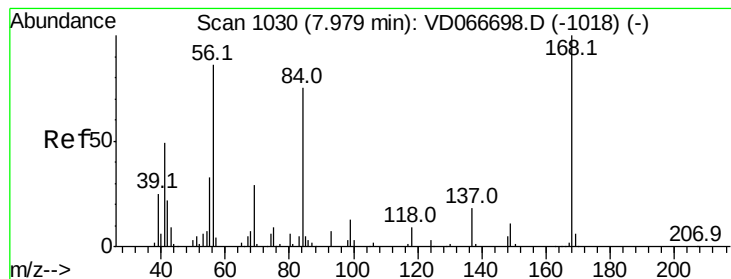
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampled :

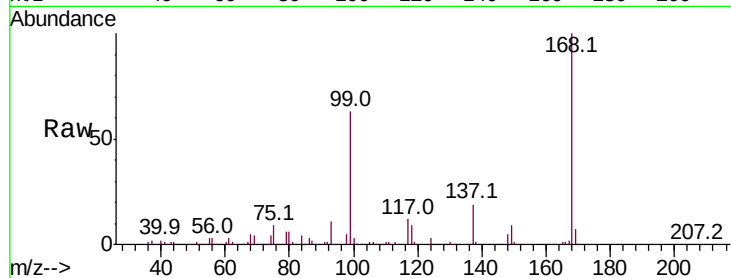
81-84

Tot Ion:168 Resp: 402077

Ion Ratio Lower Upper

168 100

99 62.7 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

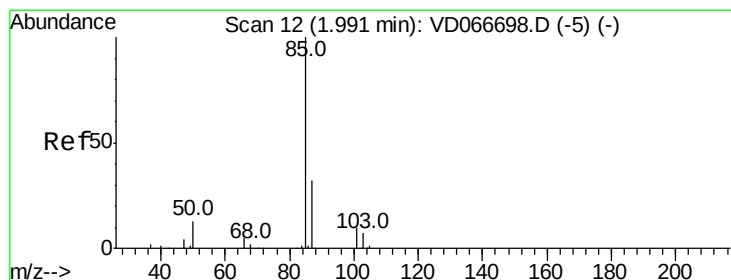
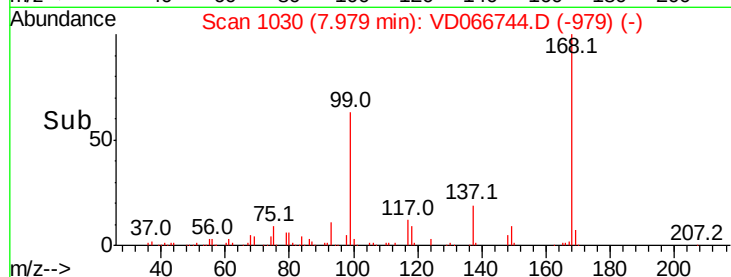
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD066744.D

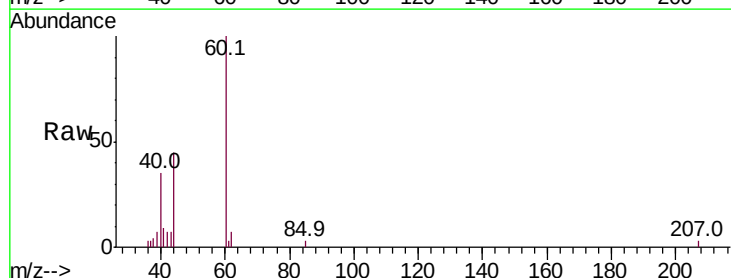
Acq: 17 Sep 2020 15:05

Tgt Ion: 85 Resp: 143

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.98

250

200

150

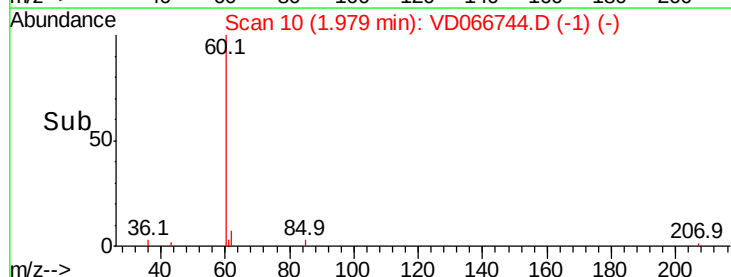
100

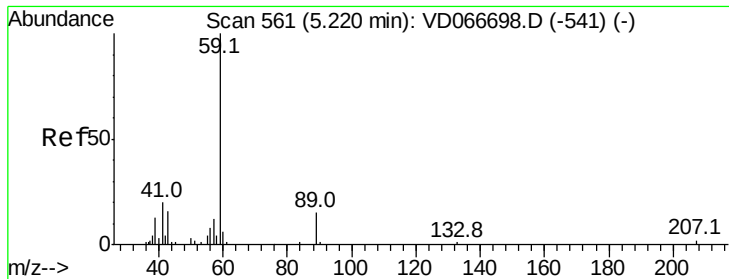
50

0

Time-->

1.96 1.98 2.00

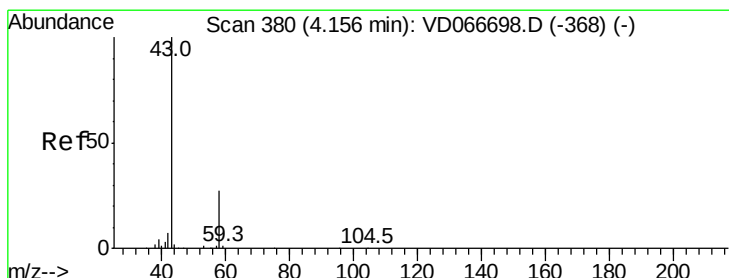
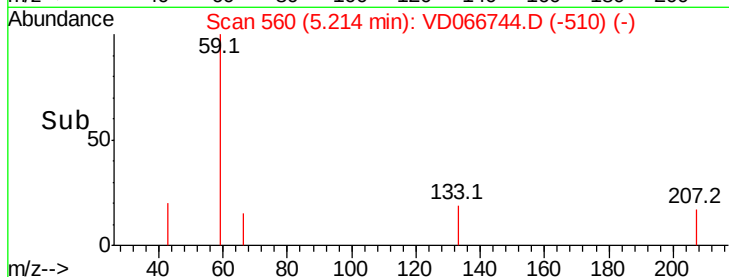
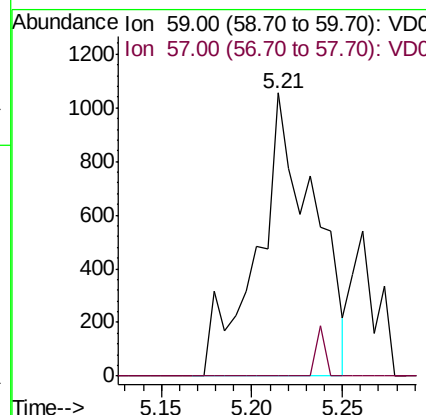
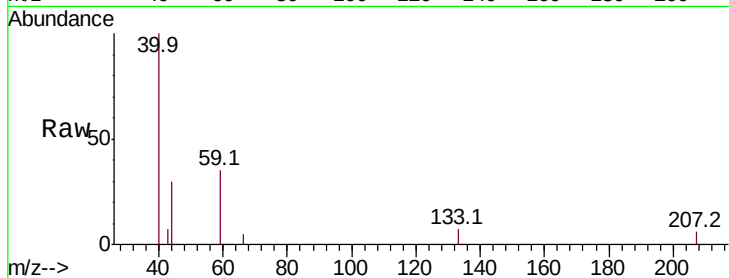




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.21 min Scan# 560
Delta R.T. -0.01 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

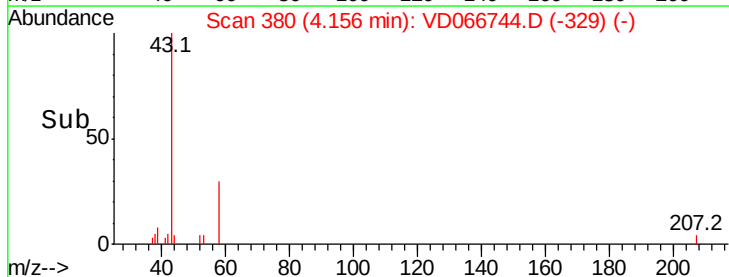
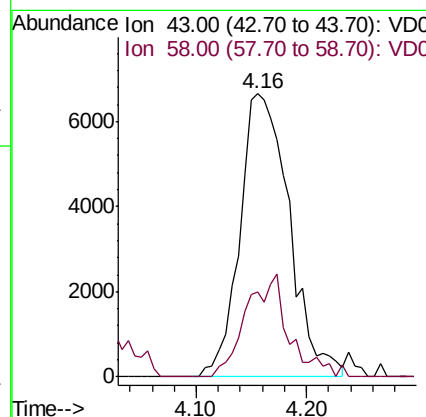
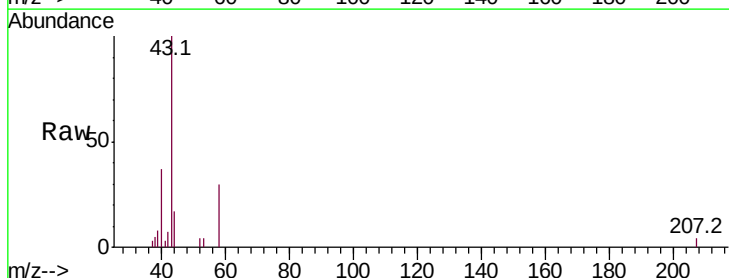
Instrument :
MSVOA_D
ClientSampled :
81-84

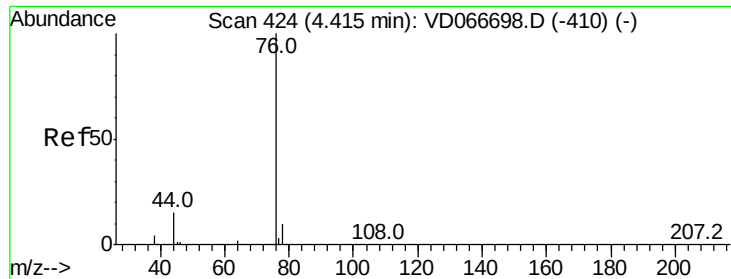
Tot Ion: 59 Resp: 2286
Ion Ratio Lower Upper
59 100
57 0.0 6.7 10.1#



#16
Acetone
Concen: 23.915 ug/l
RT: 4.16 min Scan# 380
Delta R.T. -0.00 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Tgt Ion: 43 Resp: 20892
Ion Ratio Lower Upper
43 100
58 29.9 21.9 32.9





#17

Carbon Disulfide

Concen: 3.634 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.01 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampleId :

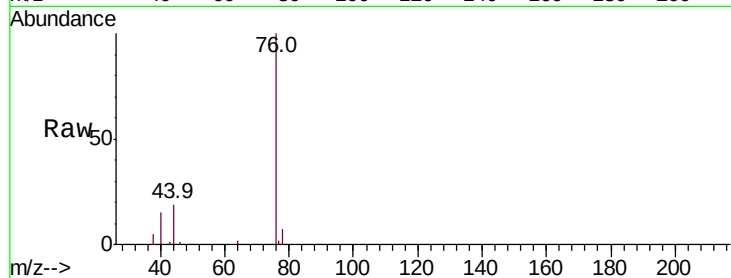
81-84

Tot Ion: 76 Resp: 45937

Ion Ratio Lower Upper

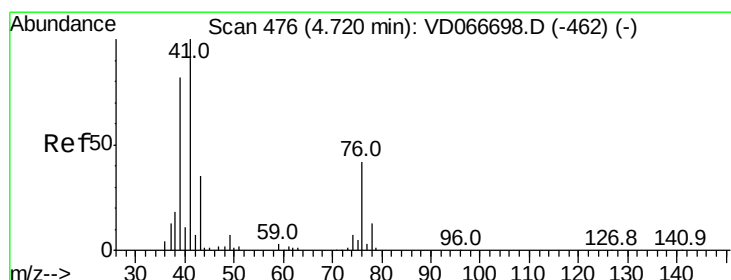
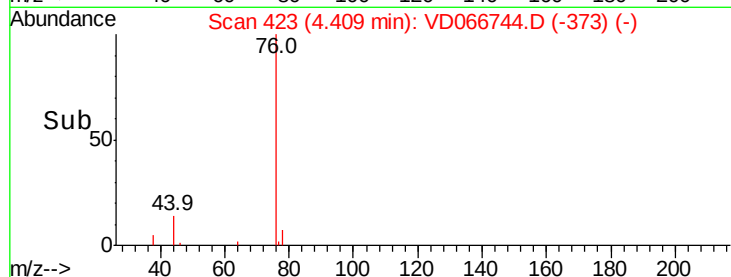
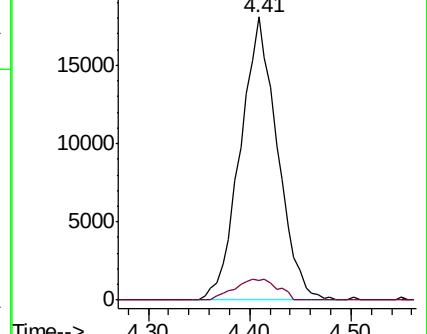
76 100

78 7.0 8.0 12.0#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD066744.D

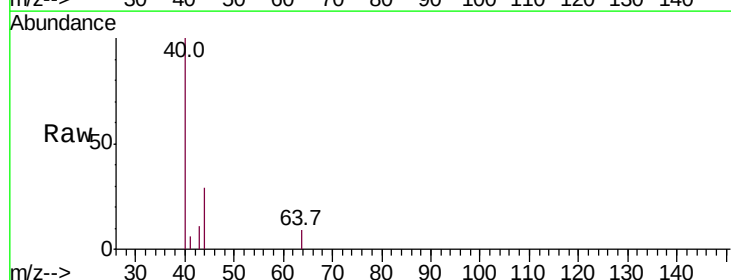
Acq: 17 Sep 2020 15:05

Tgt Ion: 43 Resp: 367

Ion Ratio Lower Upper

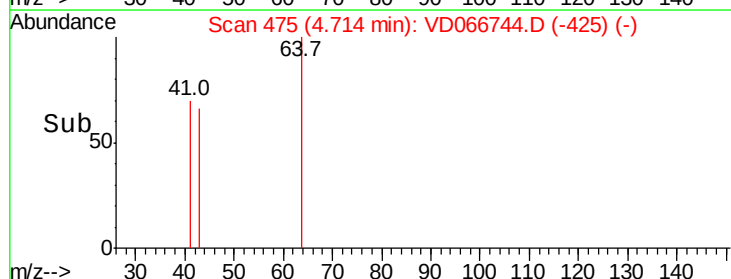
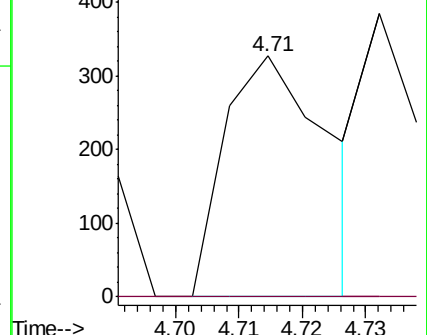
43 100

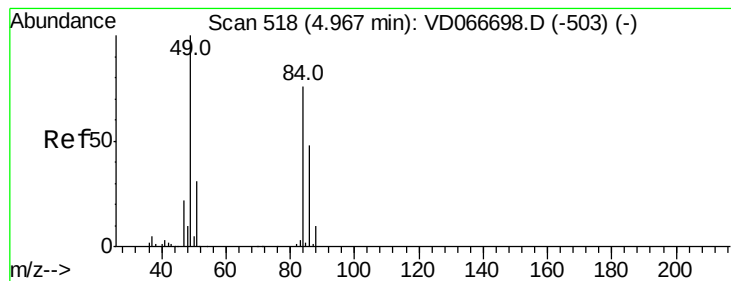
74 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 6.938 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampleId :

81-84

Tot Ion: 84 Resp: 62355

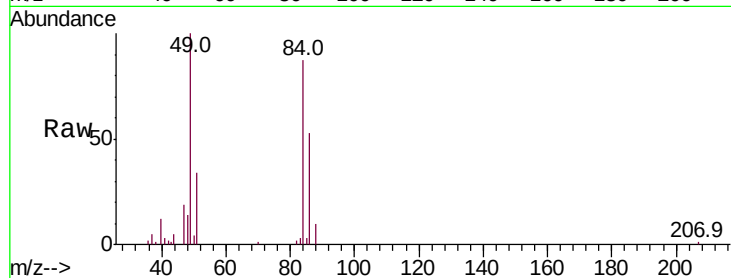
Ion Ratio Lower Upper

84 100

49 114.8 105.0 157.6

51 39.4 32.2 48.4

86 60.6 50.4 75.6

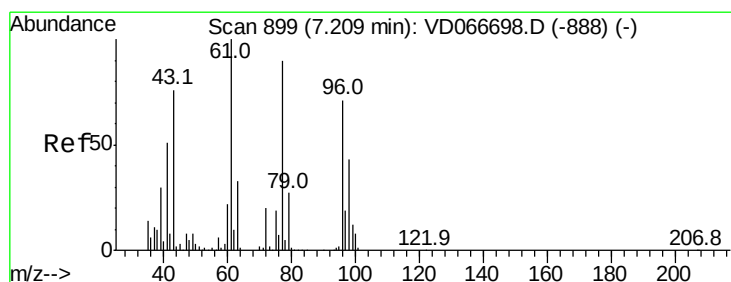
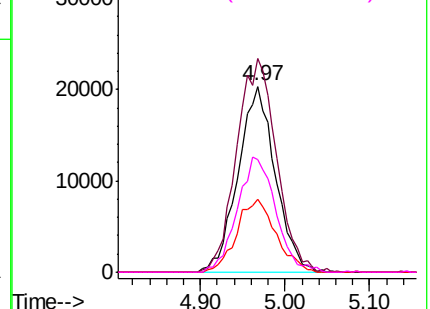
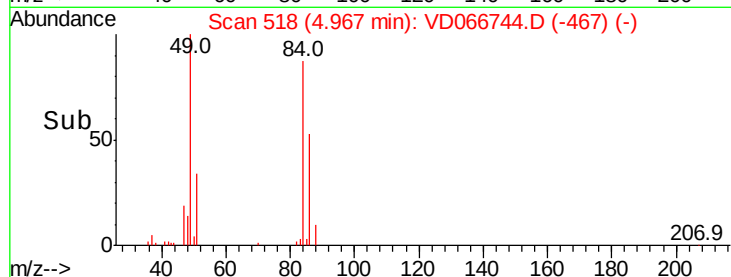


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 5.466 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD066744.D

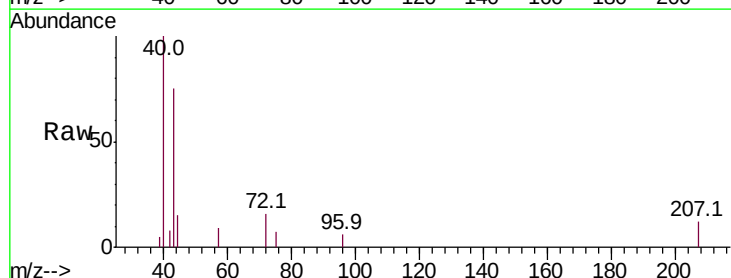
Acq: 17 Sep 2020 15:05

Tgt Ion: 43 Resp: 6218

Ion Ratio Lower Upper

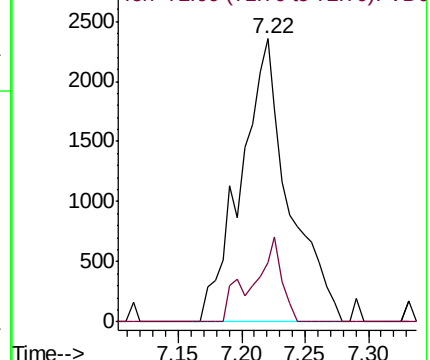
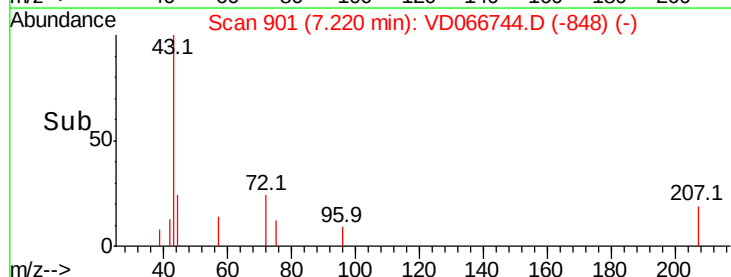
43 100

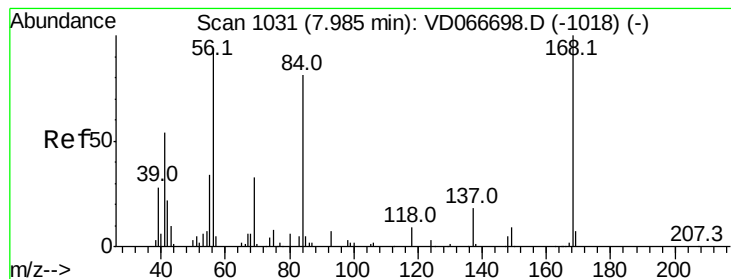
72 20.8 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.860 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampleID :

81-84

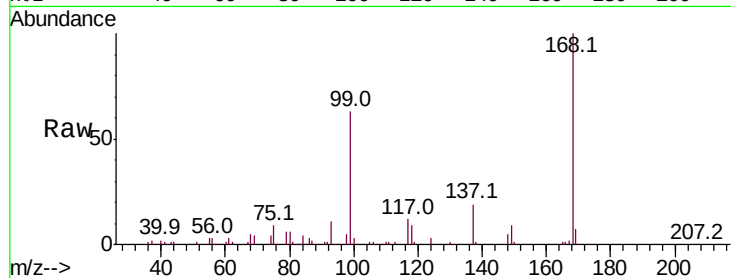
Tot Ion: 56 Resp: 14092

Ion Ratio Lower Upper

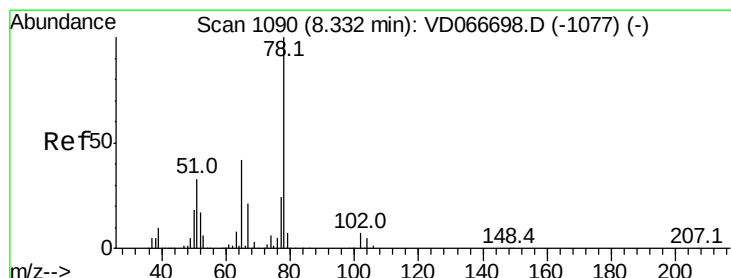
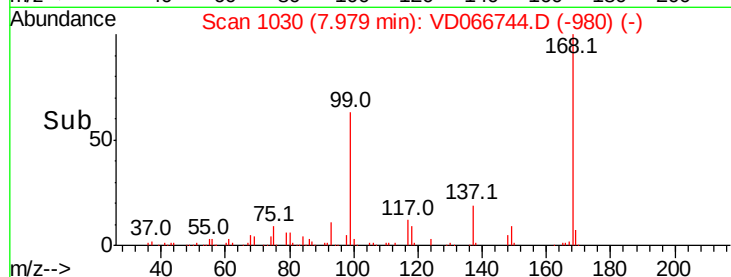
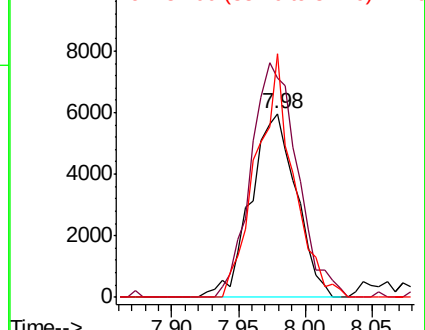
56 100

69 119.3 27.7 41.5#

84 132.7 68.5 102.7#



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: 58.813 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066744.D

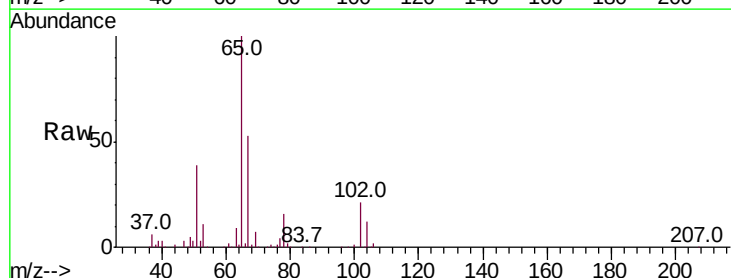
Acq: 17 Sep 2020 15:05

Tgt Ion: 65 Resp: 252302

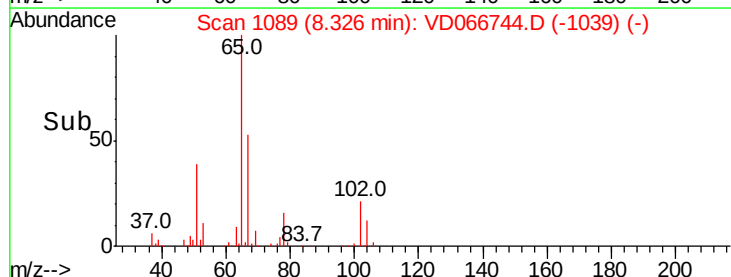
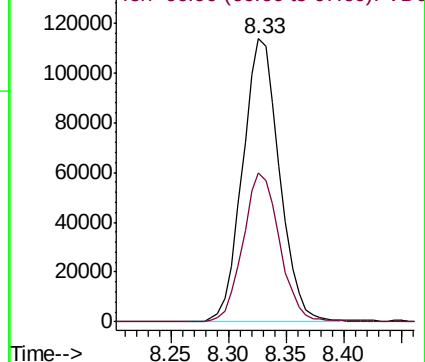
Ion Ratio Lower Upper

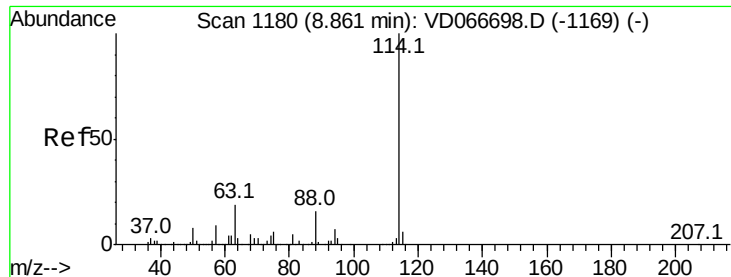
65 100

67 52.5 0.0 102.2



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: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

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ClientSampleId :

81-84

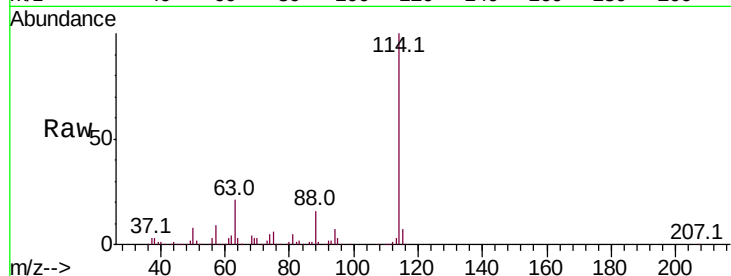
Tot Ion:114 Resp: 721308

Ion Ratio Lower Upper

114 100

63 21.3 0.0 37.6

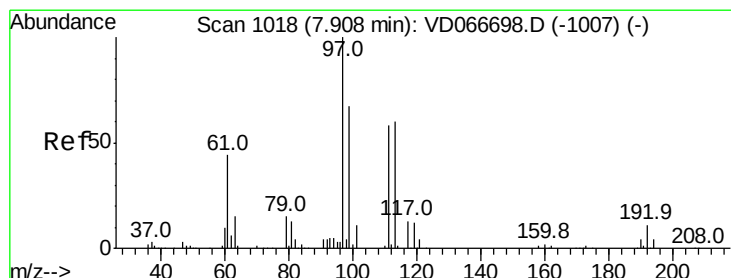
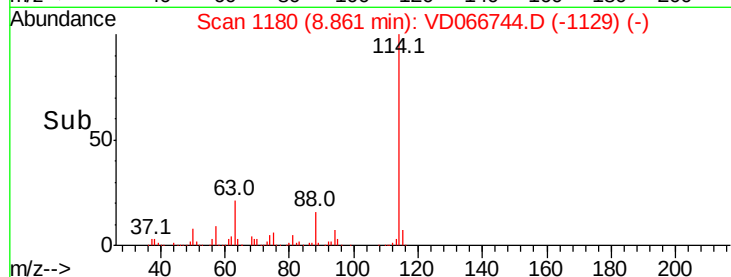
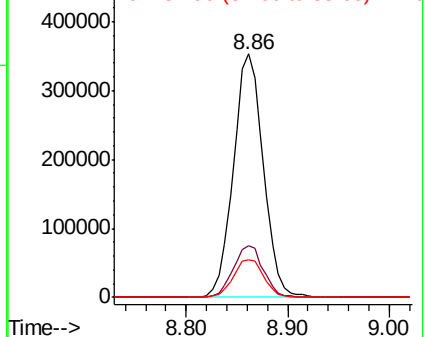
88 15.6 0.0 32.2



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: 55.871 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

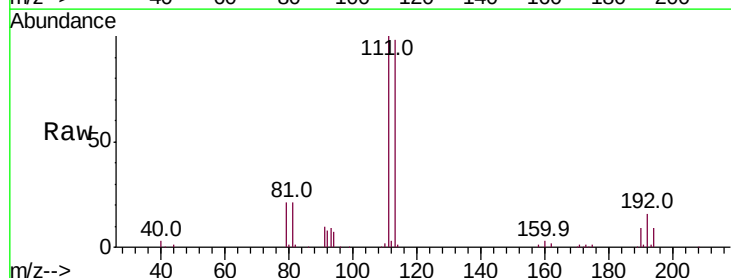
Tgt Ion:113 Resp: 247080

Ion Ratio Lower Upper

113 100

111 101.9 83.2 124.8

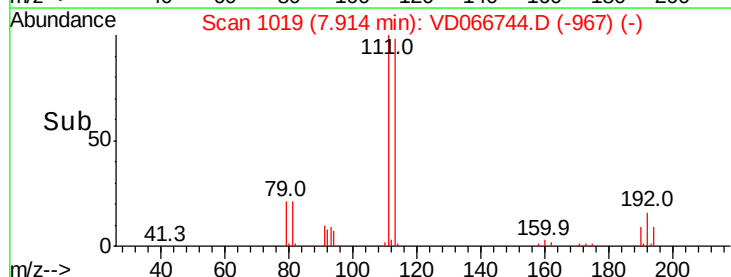
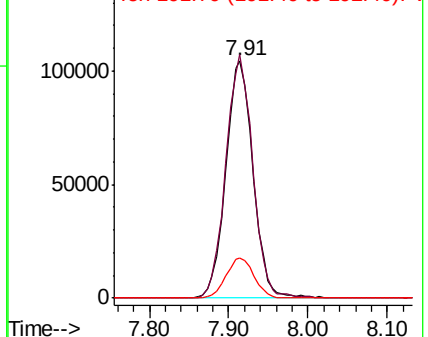
192 17.4 14.8 22.2

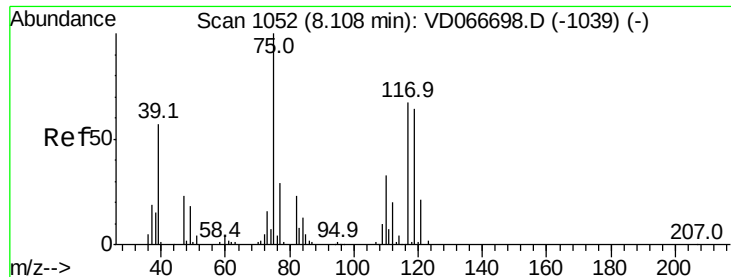


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.904 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampled :

81-84

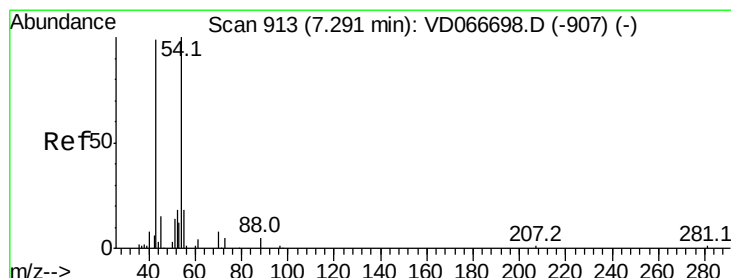
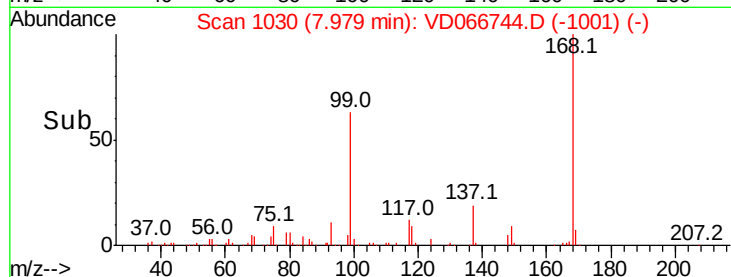
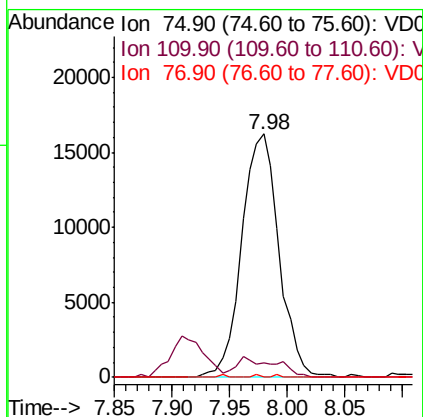
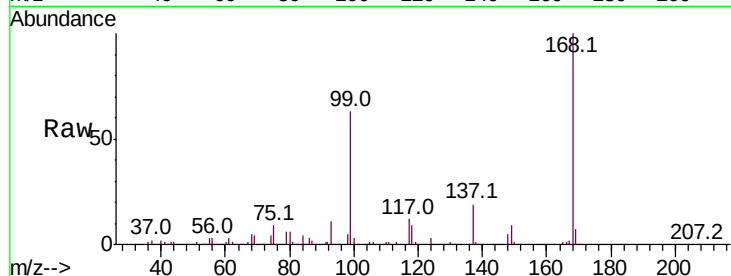
Tot Ion: 75 Resp: 36367

Ion Ratio Lower Upper

75 100

110 9.1 17.1 51.2#

77 0.0 25.0 37.6#



#37

Ethyl Acetate

Concen: 2.215 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.07 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

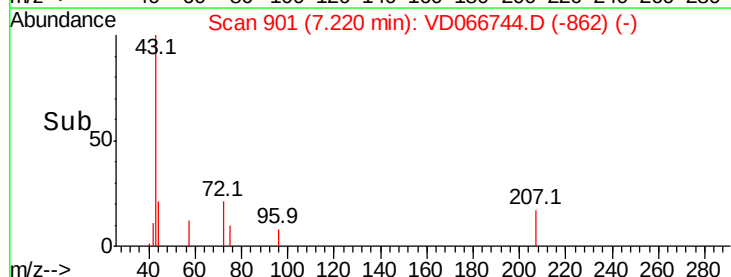
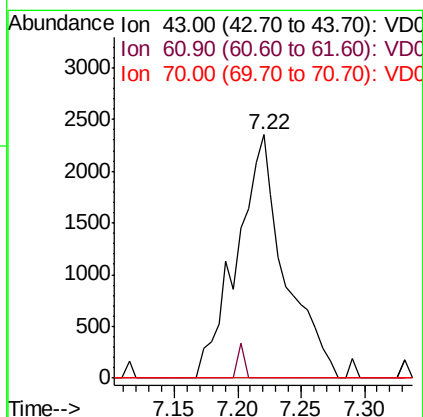
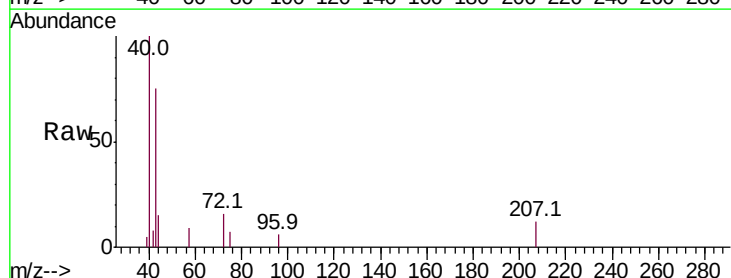
Tgt Ion: 43 Resp: 6218

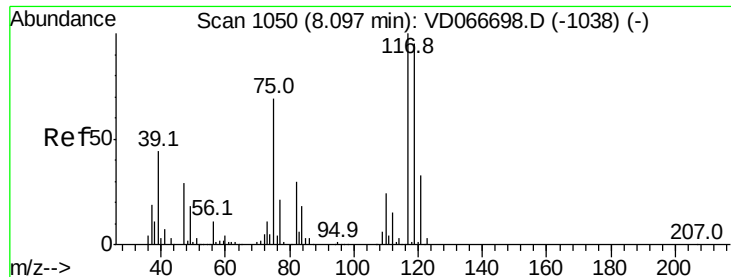
Ion Ratio Lower Upper

43 100

61 1.9 10.4 15.6#

70 0.0 7.5 11.3#

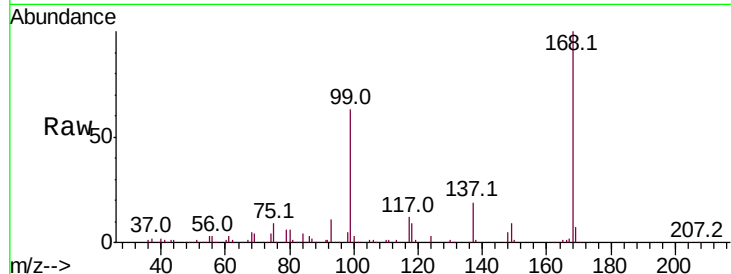




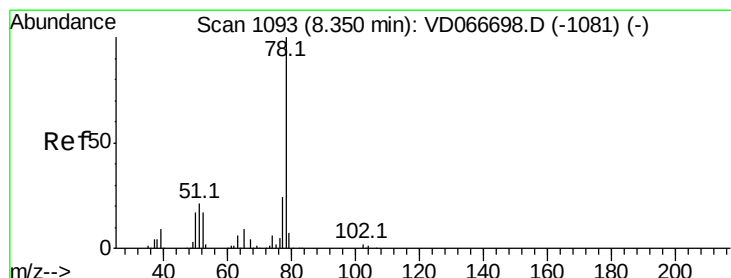
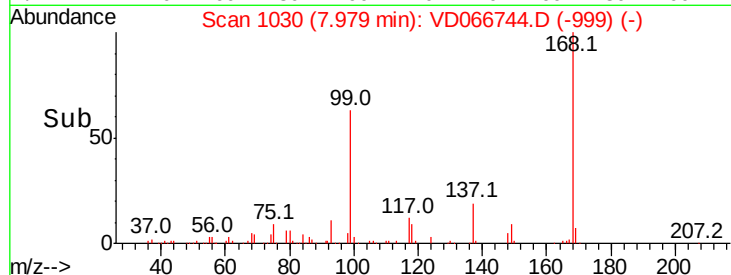
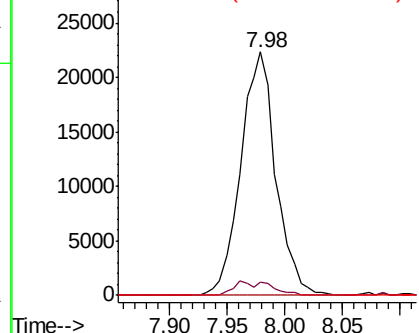
#38
Carbon Tetrachloride
Concen: 5.953 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Instrument :
MSVOA_D
ClientSampleId :
81-84

Tot Ion:117 Resp: 46883
Ion Ratio Lower Upper
117 100
119 5.4 75.8 113.6#
121 0.0 26.2 39.4#

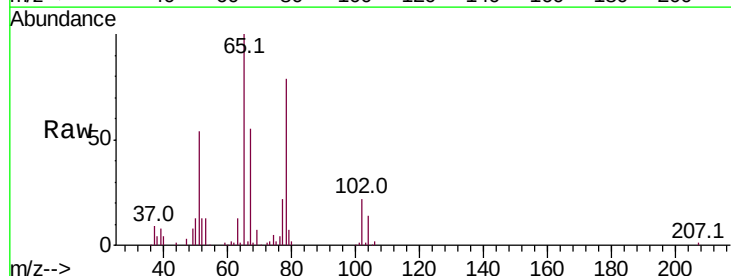


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

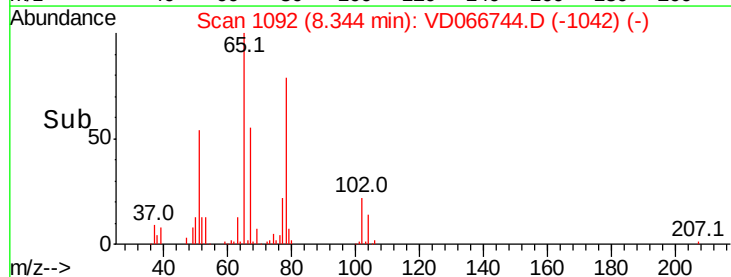
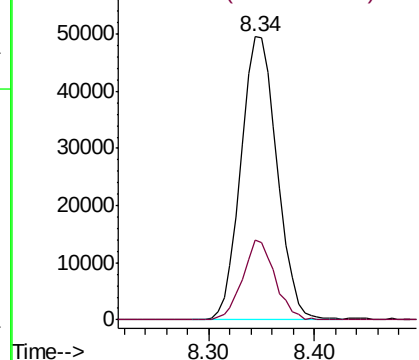


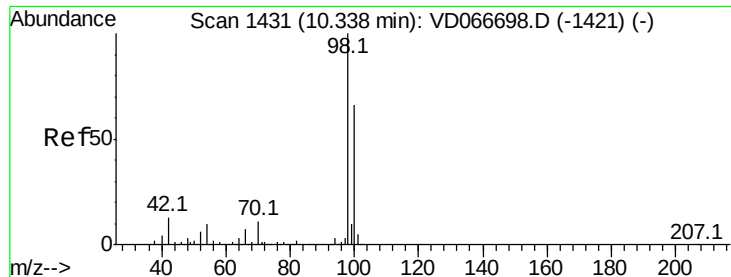
#40
Benzene
Concen: 5.855 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Tgt Ion: 78 Resp: 117462
Ion Ratio Lower Upper
78 100
77 28.3 19.3 28.9



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

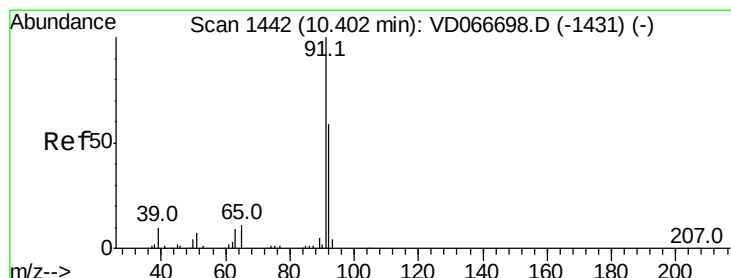
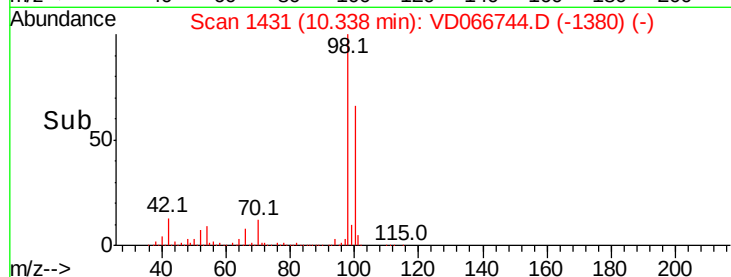
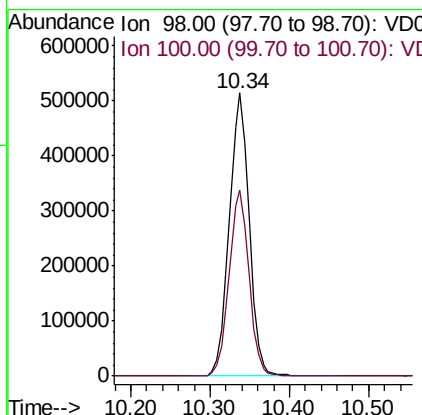
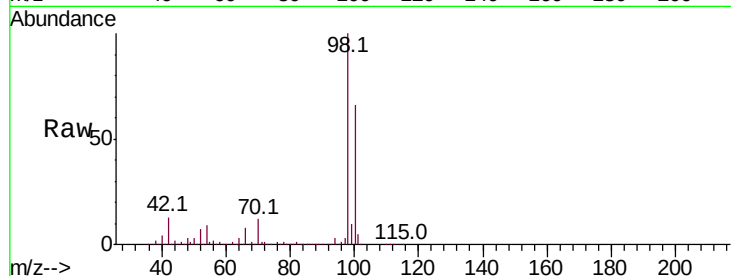




#50
Toluene-d8
Concen: 56.730 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

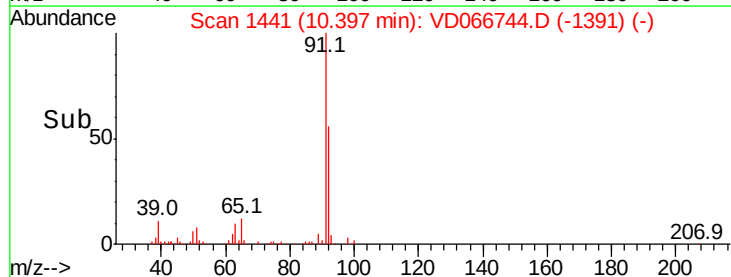
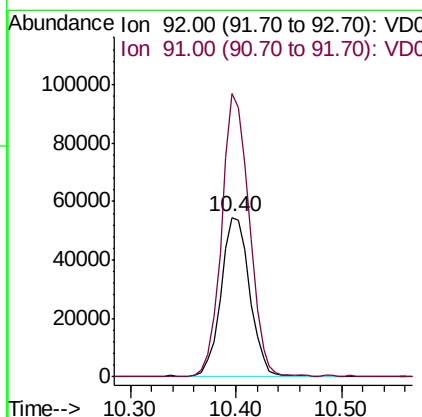
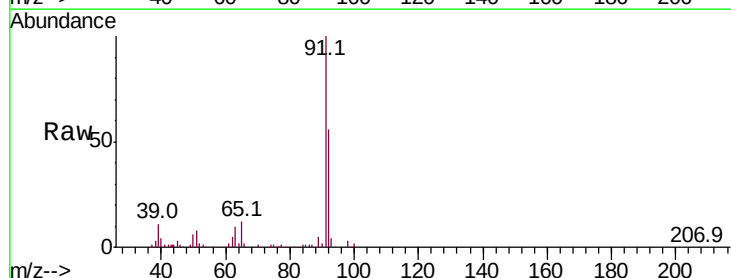
Instrument :
MSVOA_D
ClientSampleId :
81-84

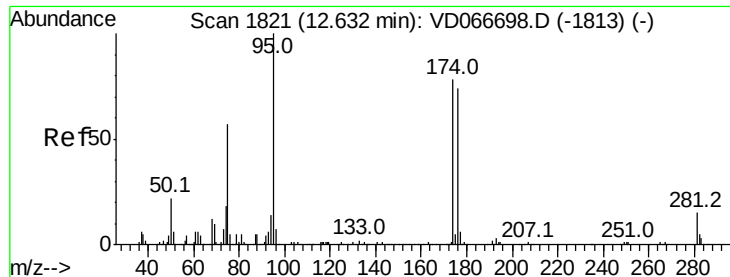
Tot Ion: 98 Resp: 893814
Ion Ratio Lower Upper
98 100
100 65.8 52.7 79.1



#52
Toluene
Concen: 8.047 ug/l
RT: 10.40 min Scan# 1441
Delta R.T. -0.01 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Tgt Ion: 92 Resp: 103434
Ion Ratio Lower Upper
92 100
91 170.5 135.8 203.8

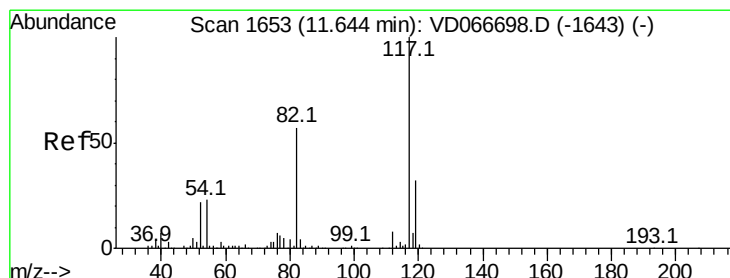
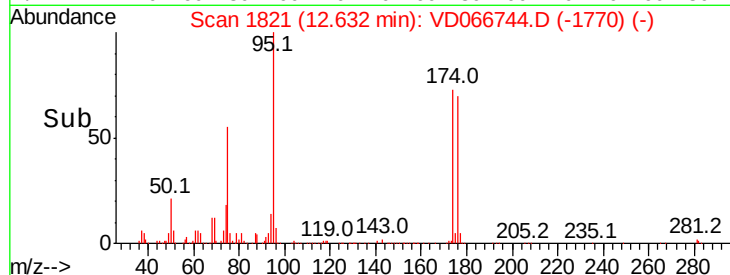
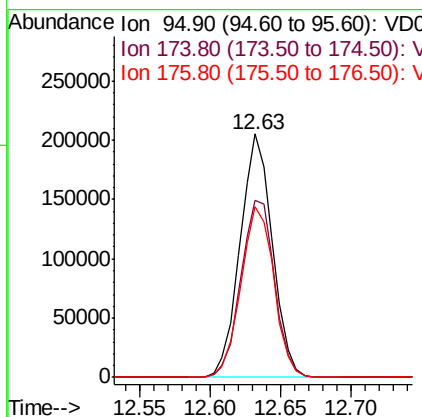
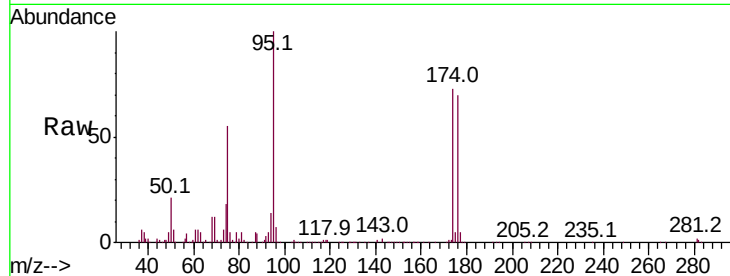




#62
4-Bromofluorobenzene
Concen: 60.277 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.00 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

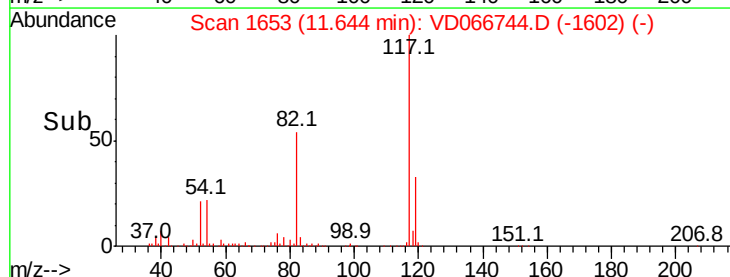
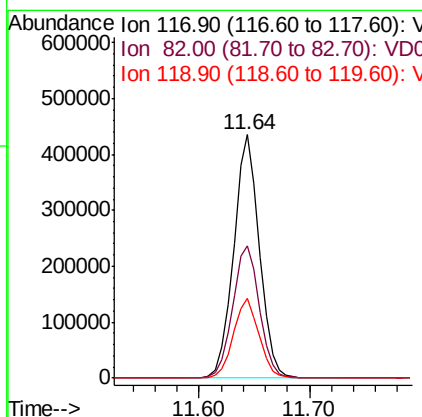
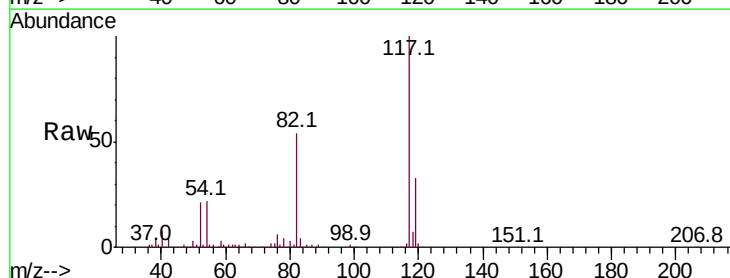
Instrument :
MSVOA_D
ClientSampled :
81-84

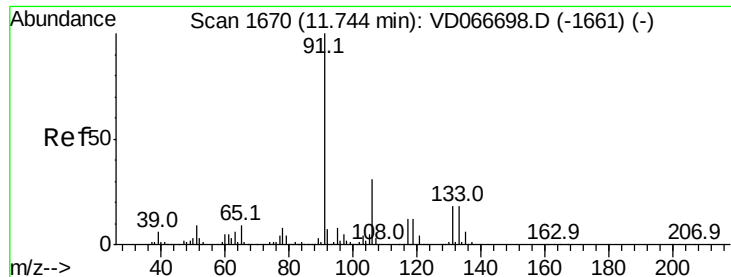
Tot Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	156.6
176	72.0	0.0	150.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.4	68.0
119	33.0	25.8	38.6





#67

Ethyl Benzene

Concen: 1.070 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampled :

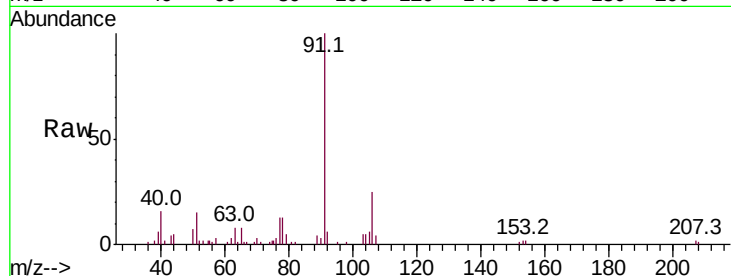
81-84

Tot Ion: 91 Resp: 28493

Ion Ratio Lower Upper

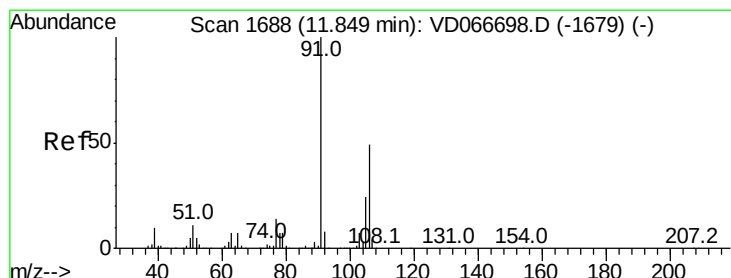
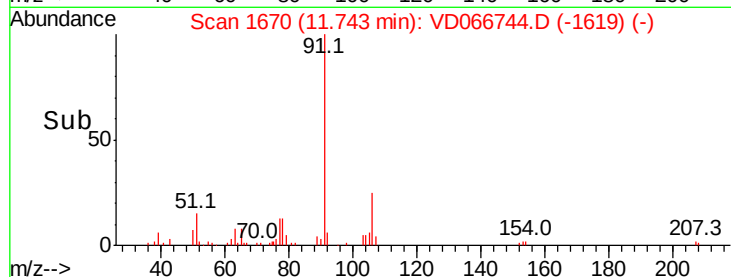
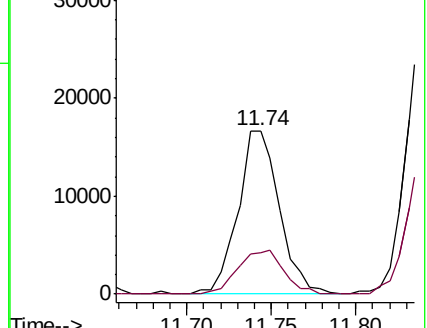
91 100

106 25.2 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 3.987 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VD066744.D

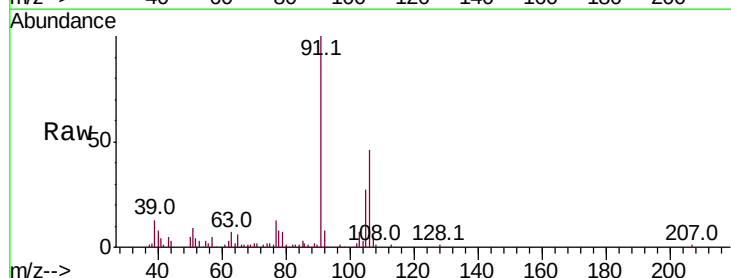
Acq: 17 Sep 2020 15:05

Tgt Ion:106 Resp: 40123

Ion Ratio Lower Upper

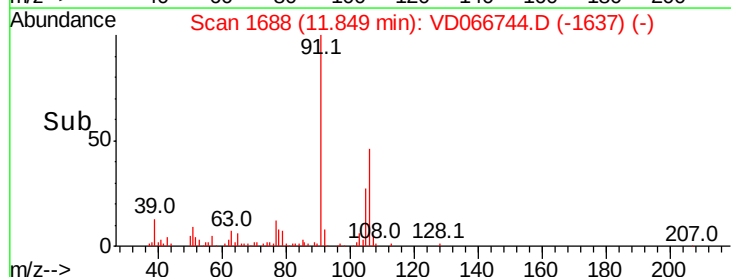
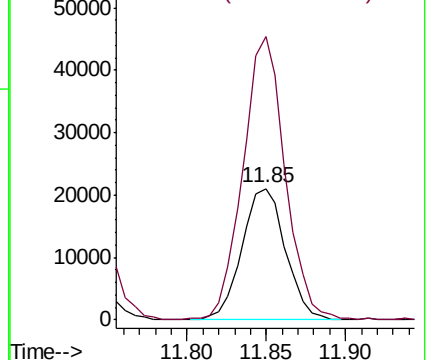
106 100

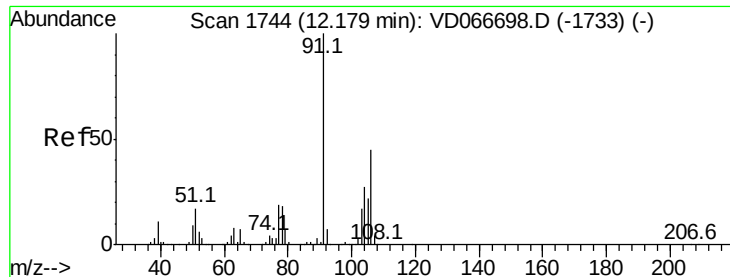
91 209.2 164.8 247.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

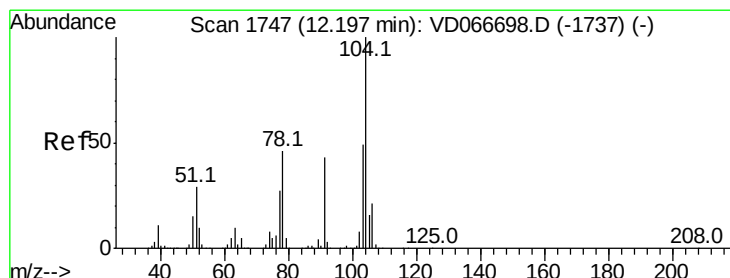
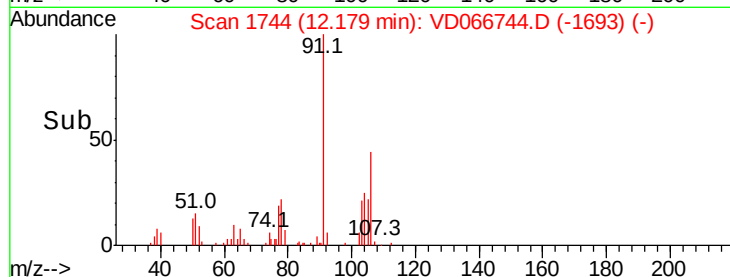
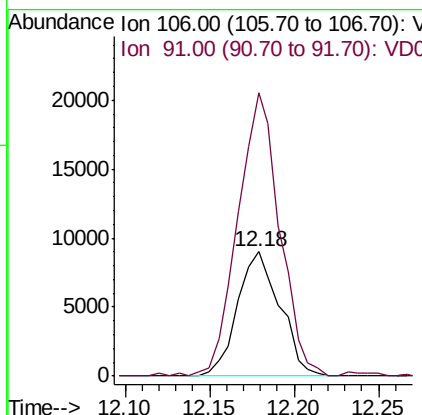
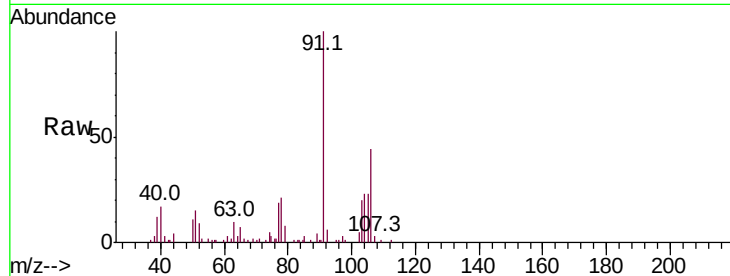




#69
o-Xylene
Concen: 1.776 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

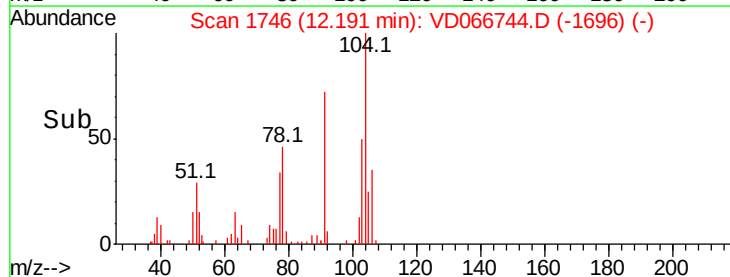
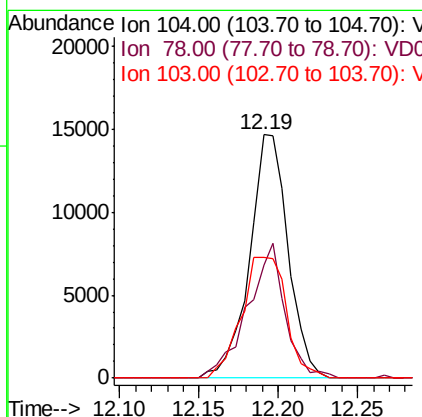
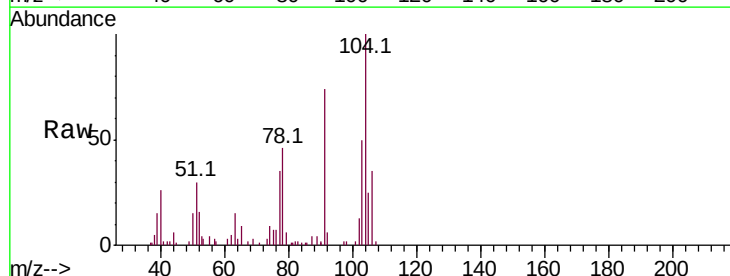
Instrument :
MSVOA_D
ClientSampled :
81-84

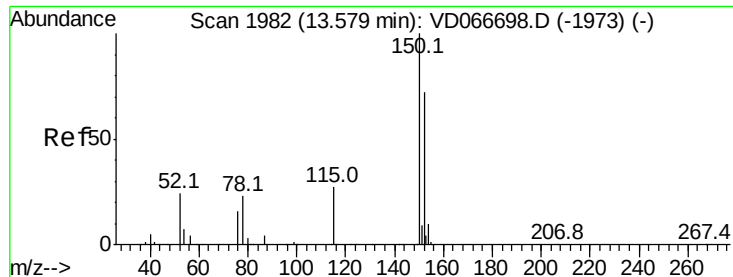
Tot Ion:106 Resp: 15794
Ion Ratio Lower Upper
106 100
91 224.4 109.4 328.2



#70
Styrene
Concen: 1.586 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VD066744.D
Acq: 17 Sep 2020 15:05

Tgt Ion:104 Resp: 24831
Ion Ratio Lower Upper
104 100
78 53.9 40.2 60.4
103 58.0 42.5 63.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampleId :

81-84

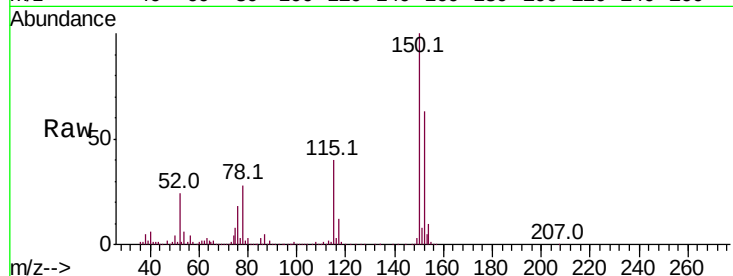
Tot Ion:152 Resp: 321677

Ion Ratio Lower Upper

152 100

115 62.0 30.5 91.5

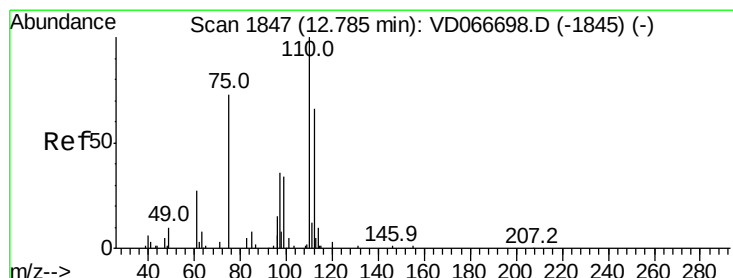
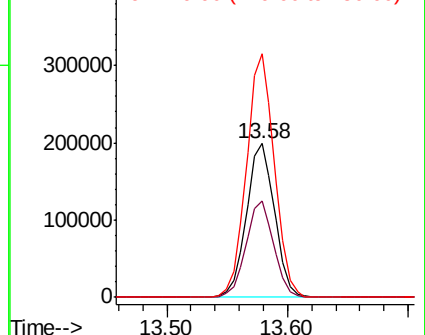
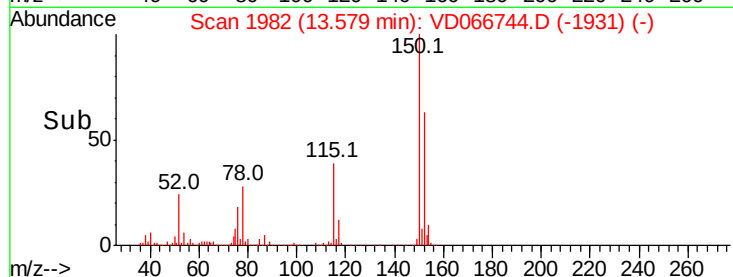
150 157.8 0.0 344.6



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



#76

1,2,3-Trichloropropane

Concen: 65.396 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066744.D

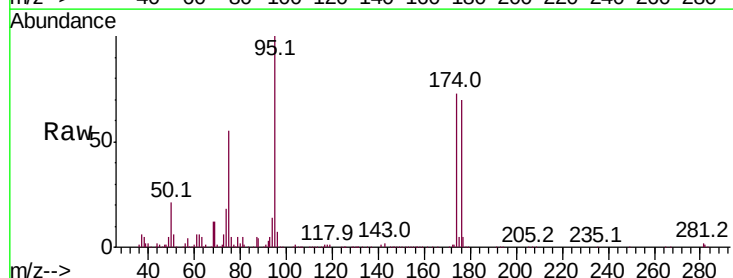
Acq: 17 Sep 2020 15:05

Tgt Ion: 75 Resp: 180064

Ion Ratio Lower Upper

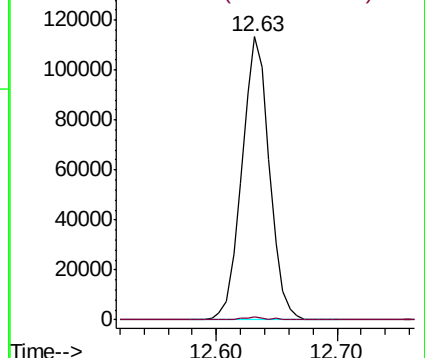
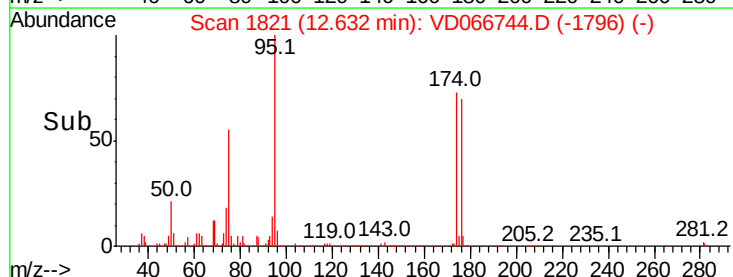
75 100

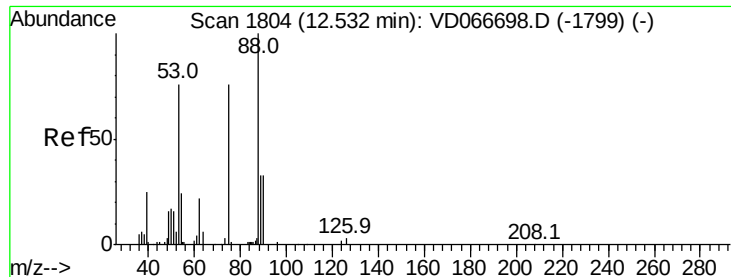
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 141.137 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

Instrument :

MSVOA_D

ClientSampleId :

81-84

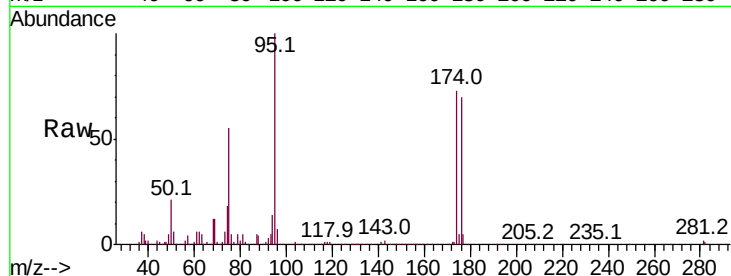
Tot Ion: 75 Resp: 180064

Ion Ratio Lower Upper

75 100

53 0.1 82.2 123.4#

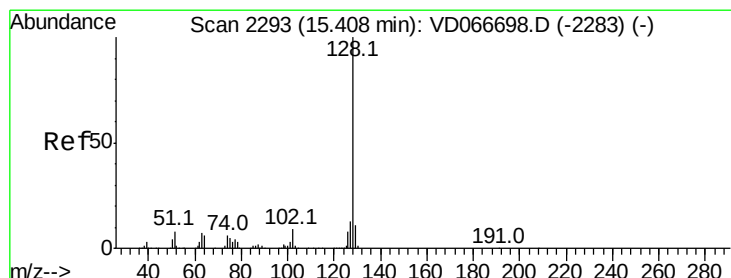
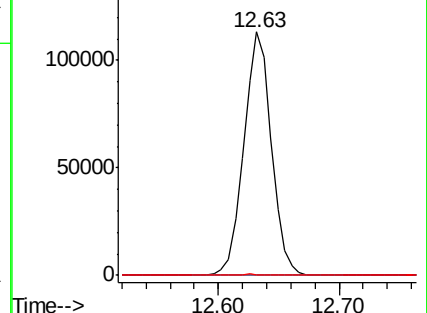
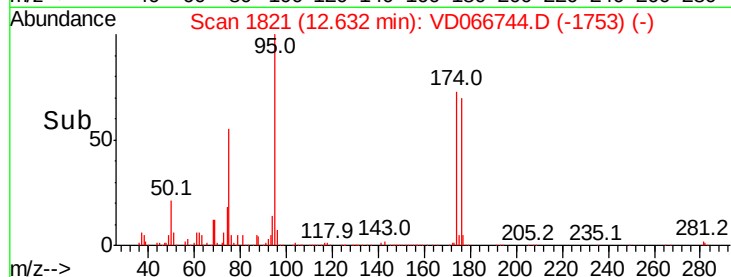
89 0.1 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V



#95

Naphthalene

Concen: 15.349 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VD066744.D

Acq: 17 Sep 2020 15:05

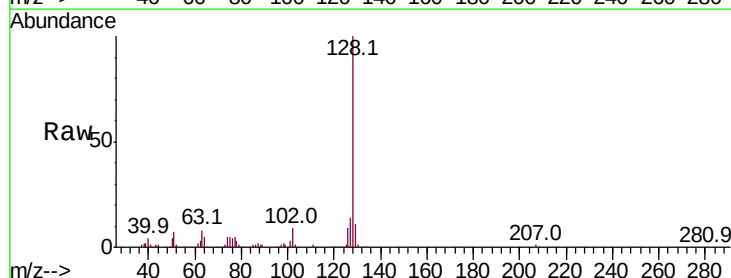
Tgt Ion: 128 Resp: 147580

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 11.3 8.6 12.8



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

