

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\
 Data File : VD066891.D
 Acq On : 26 Sep 2020 00:49
 Operator : VA/SY
 Sample : L4154-01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-1(1-2)

Quant Time: Sep 26 06:39:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	446659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	754899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	782246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	392357	50.00	ug/l	0.00

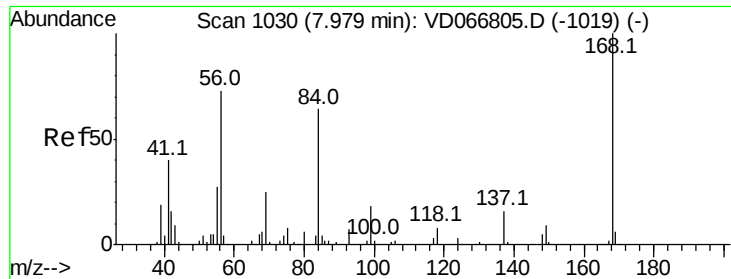
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	219267	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
35) Dibromofluoromethane	7.91	113	240091	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
50) Toluene-d8	10.34	98	911915	55.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.46%	
62) 4-Bromofluorobenzene	12.63	95	372548	66.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	2693	Below Cal		93
11) Tert butyl alcohol	5.22	59	1350	Below Cal	#	72
16) Acetone	4.16	43	3311	3.570 ug/l	#	81
18) Methyl Acetate	4.81	43	84	Below Cal	#	50
20) Methylene Chloride	4.97	84	23040	Below Cal		89
23) Vinyl Acetate	6.33	43	902	2.796 ug/l	#	71
25) 2-Butanone	7.19	43	1589	1.426 ug/l	#	78
31) Cyclohexane	7.98	56	14017	1.763 ug/l	#	14
49) 1,4-Dioxane	9.46	88	212	Below Cal	#	44
59) 2-Hexanone	10.96	43	4995	2.800 ug/l	#	25
68) m/p-Xylenes	11.84	106	17033	1.573 ug/l		96
69) o-Xylene	12.18	106	11142	1.138 ug/l		98
74) N-amyl acetate	12.27	43	13966	2.523 ug/l	#	75
76) 1,2,3-Trichloropropane	12.63	75	196378	60.395 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.96	105	51608	2.146 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.63	75	196378	151.104 ug/l	#	10
84) 1,2,4-Trimethylbenzene	13.27	105	80164	3.361 ug/l		97
90) Hexachloroethane	14.11	117	8419	1.619 ug/l	#	29
95) Naphthalene	15.40	128	39044	3.260 ug/l	#	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066891.D

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MSVOA_D

ClientSampleId :

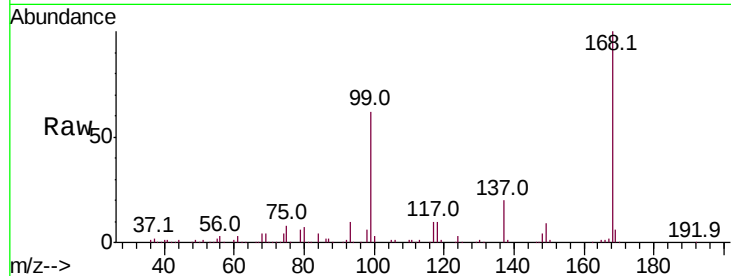
B-1(1-2)

Tot Ion:168 Resp: 446659

Ion Ratio Lower Upper

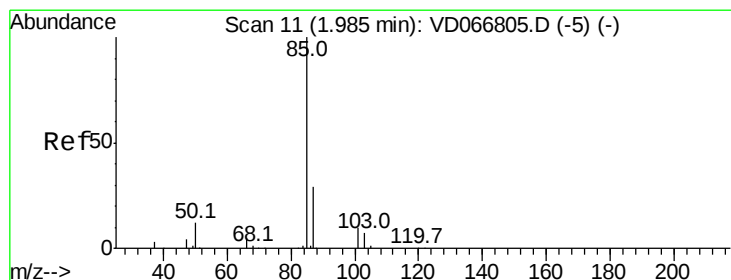
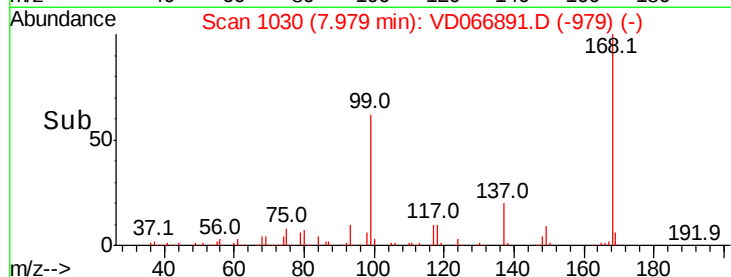
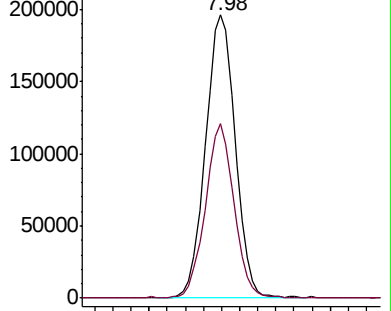
168 100

99 61.5 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD066891.D

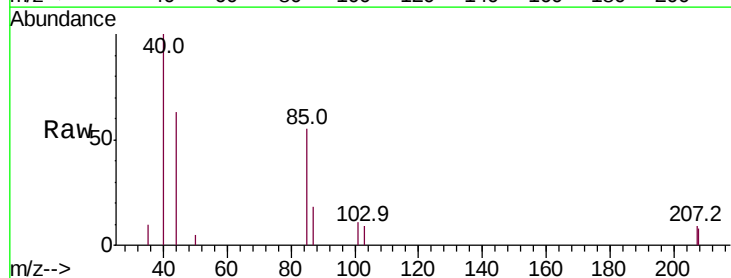
Acq: 26 Sep 2020 00:49

Tgt Ion: 85 Resp: 2693

Ion Ratio Lower Upper

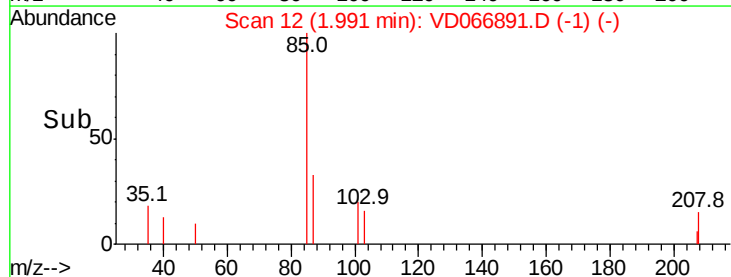
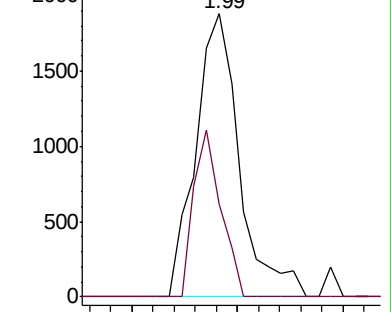
85 100

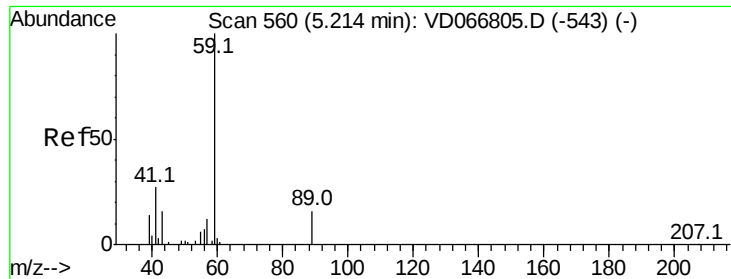
87 32.8 14.5 43.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC



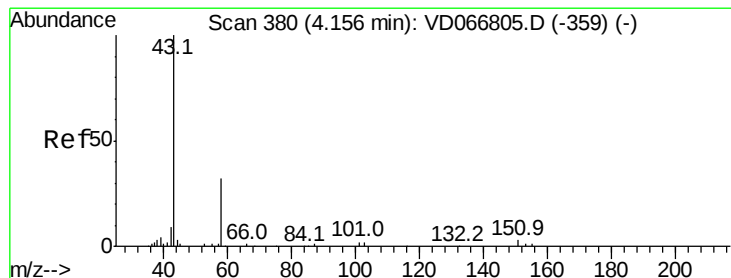
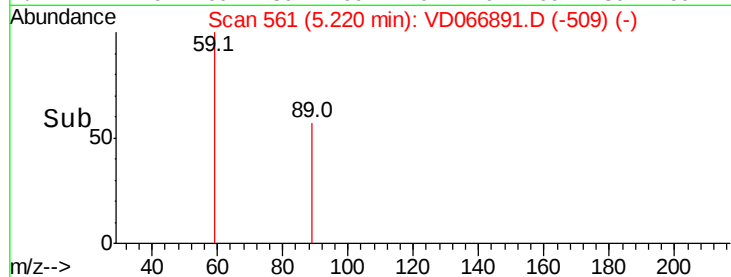
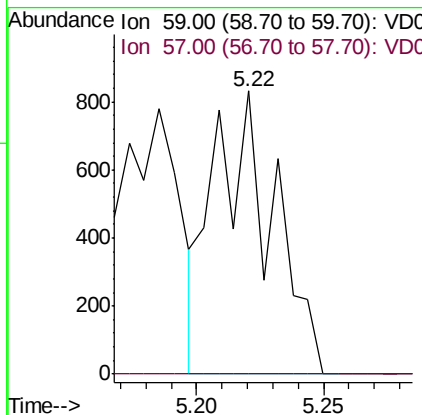
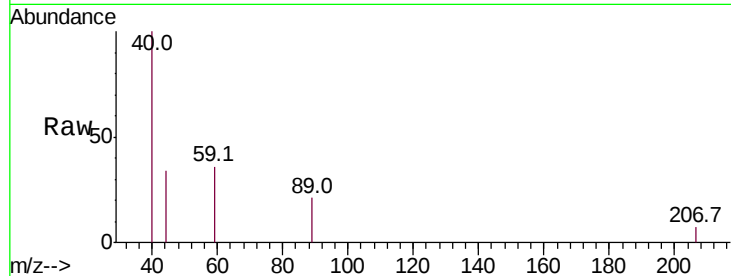


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.22 min Scan# 561
 Delta R.T. 0.01 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

Instrument :
 MSVOA_D
 ClientSampleId :
 B-1(1-2)

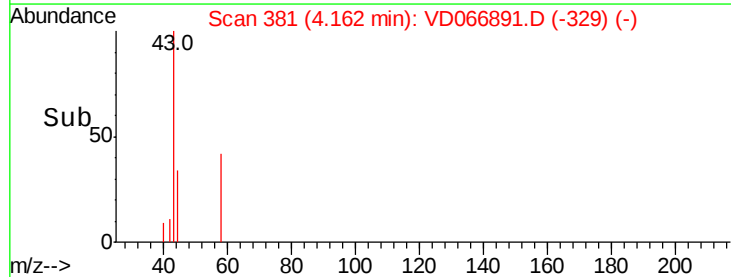
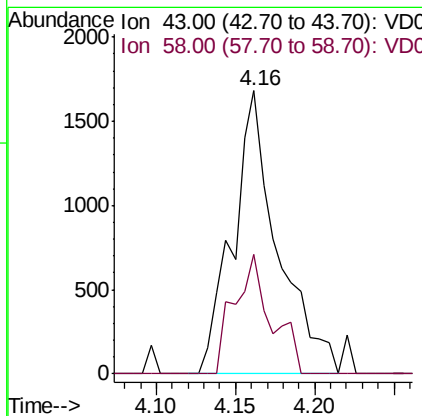
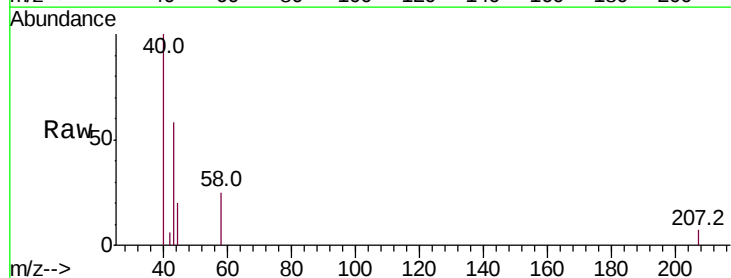
Tot Ion: 59 Resp: 1350
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

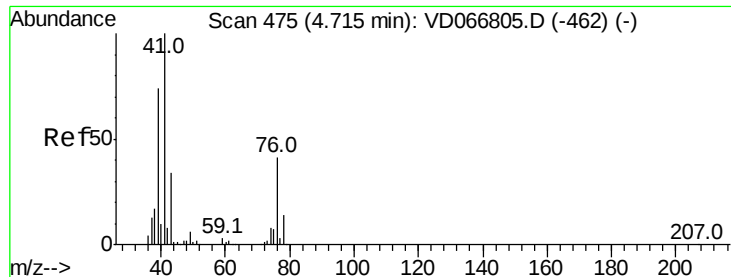


#16

Acetone
 Concen: 3.570 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

Tgt Ion: 43 Resp: 3311
 Ion Ratio Lower Upper
 43 100
 58 42.4 25.6 38.4#

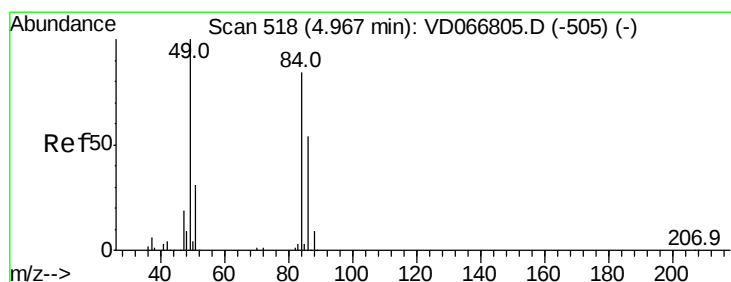
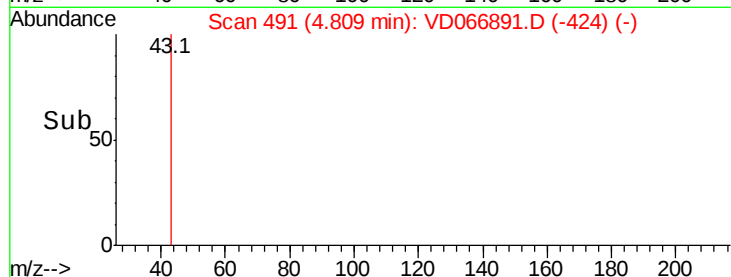
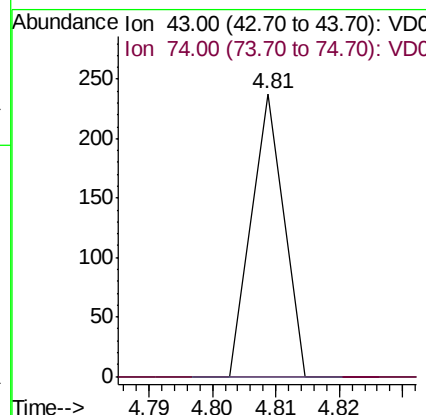
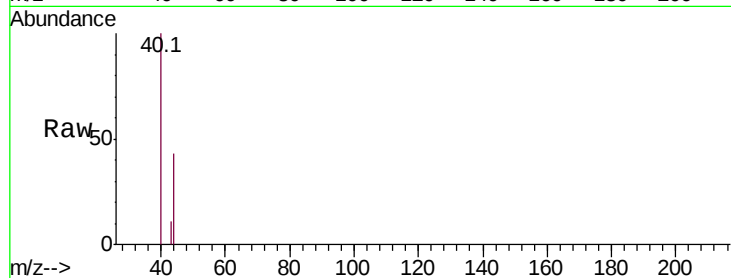




#18
Methyl Acetate
Concen: Below Cal
RT: 4.81 min Scan# 491
Delta R.T. 0.09 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

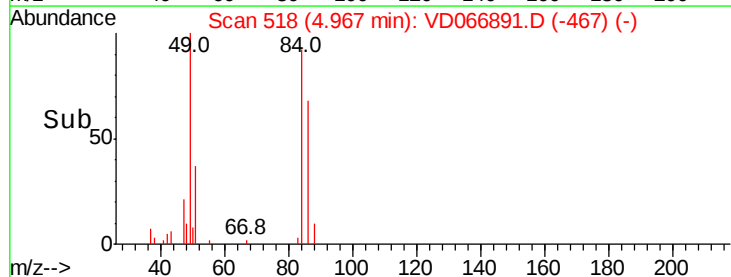
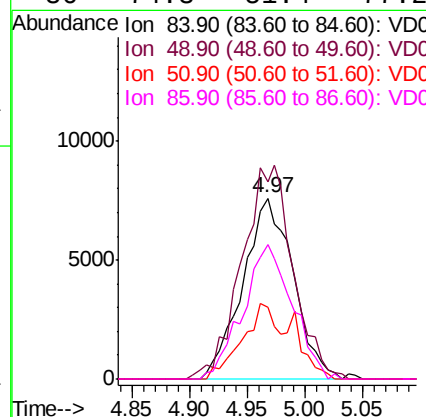
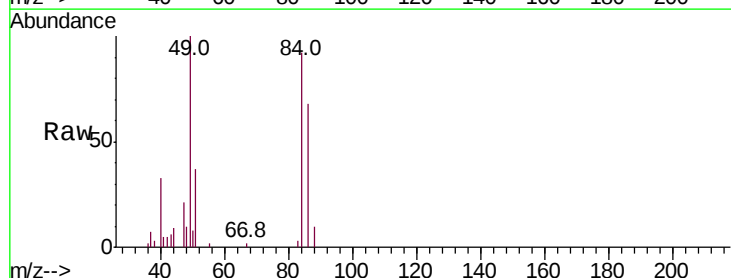
Instrument :
MSVOA_D
ClientSampled :
B-1(1-2)

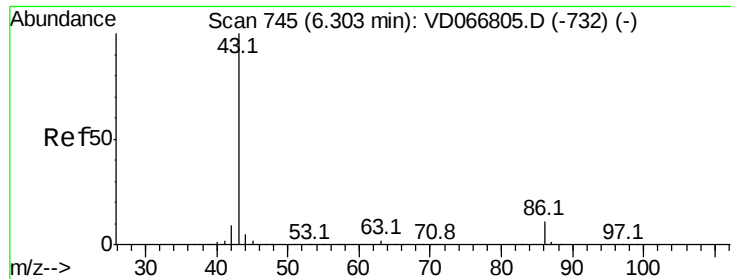
Tot Ion: 43 Resp: 84
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

Tgt Ion: 84 Resp: 23040
Ion Ratio Lower Upper
84 100
49 106.6 95.4 143.2
51 39.8 29.7 44.5
86 74.3 51.4 77.2

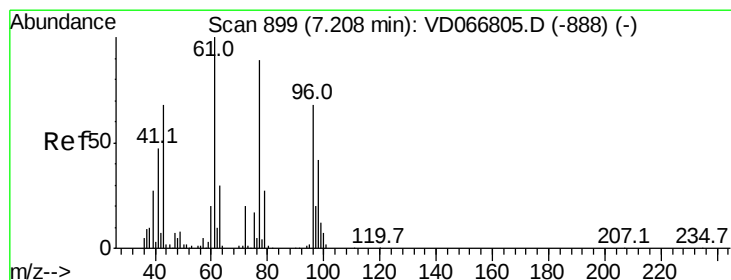
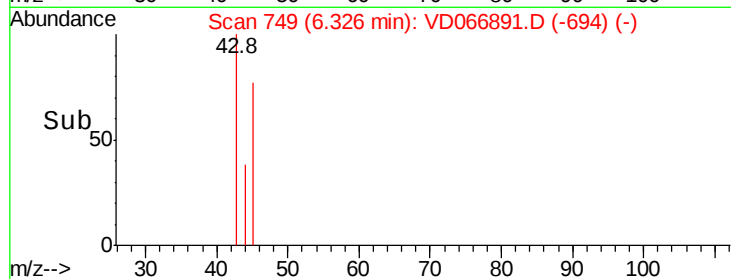
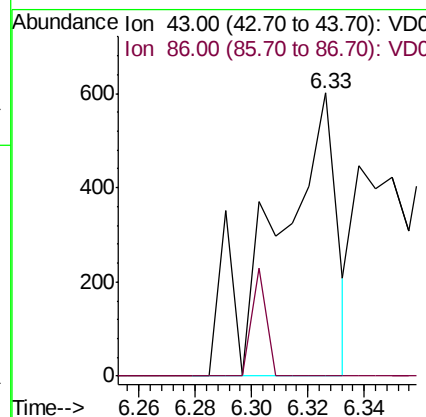
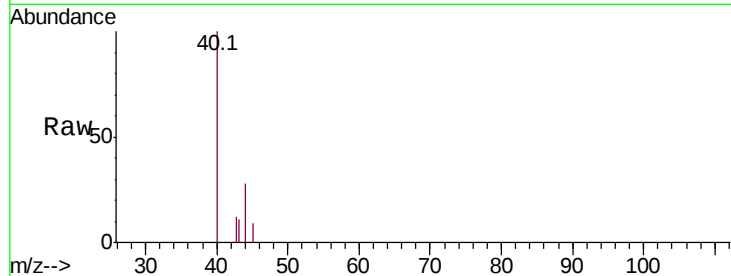




#23
 Vinyl Acetate
 Concen: 2.796 ug/l
 RT: 6.33 min Scan# 749
 Delta R.T. 0.02 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

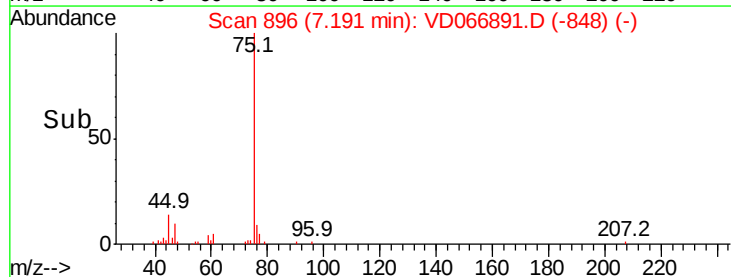
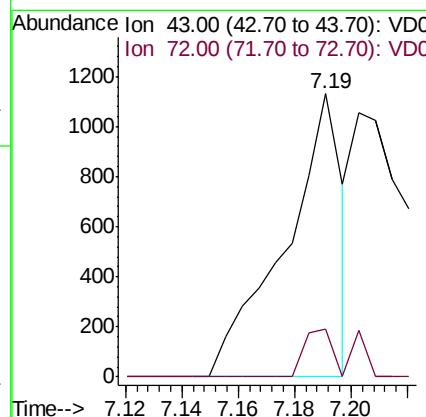
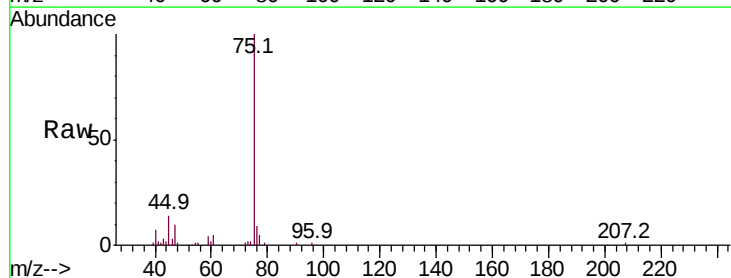
Instrument :
 MSVOA_D
 ClientSampleId :
 B-1(1-2)

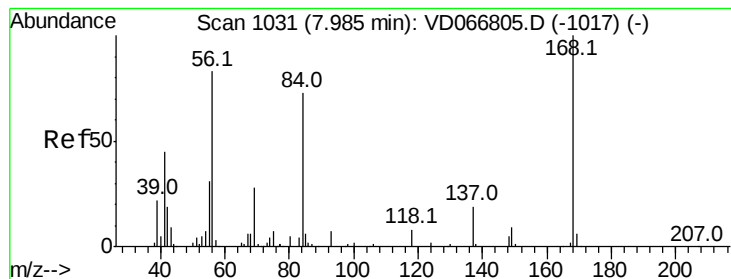
Tot Ion: 43 Resp: 902
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.9 13.3#



#25
 2-Butanone
 Concen: 1.426 ug/l
 RT: 7.19 min Scan# 896
 Delta R.T. -0.02 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

Tgt Ion: 43 Resp: 1589
 Ion Ratio Lower Upper
 43 100
 72 17.1 22.9 34.3#





#31

Cyclohexane

Concen: 1.763 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampled :

B-1(1-2)

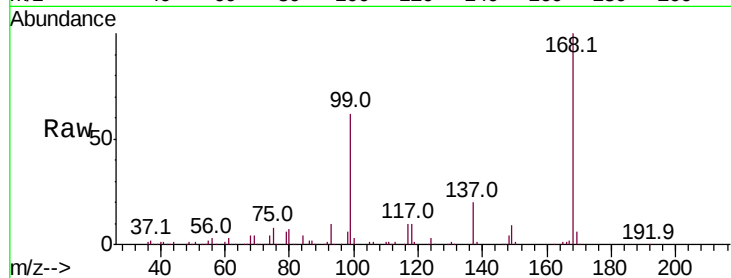
Tot Ion: 56 Resp: 14017

Ion Ratio Lower Upper

56 100

69 128.8 27.0 40.4#

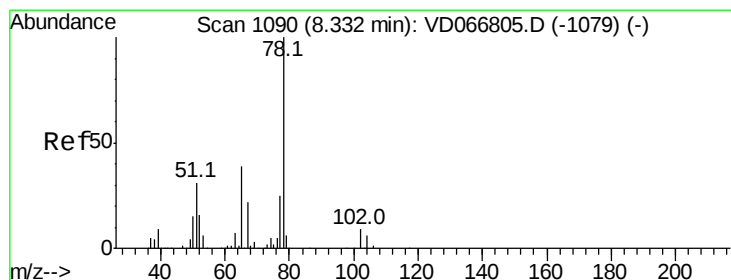
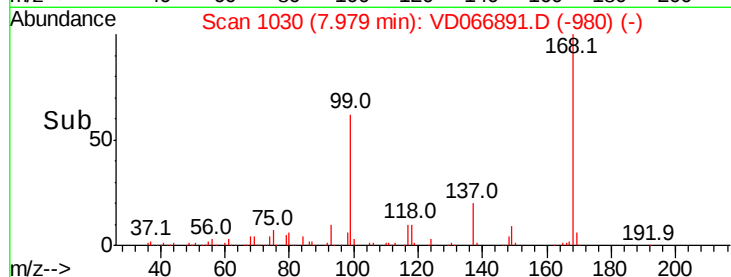
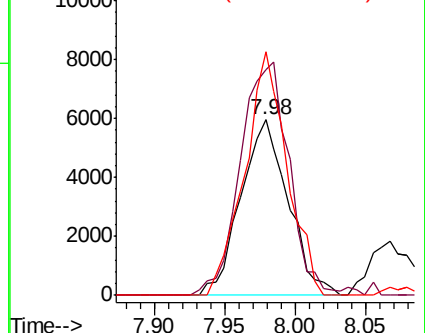
84 138.9 70.2 105.4#



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: 50.156 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066891.D

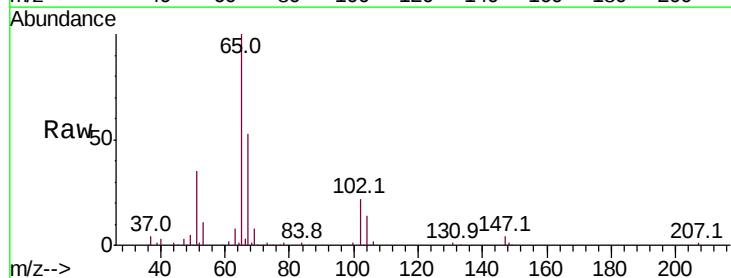
Acq: 26 Sep 2020 00:49

Tgt Ion: 65 Resp: 219267

Ion Ratio Lower Upper

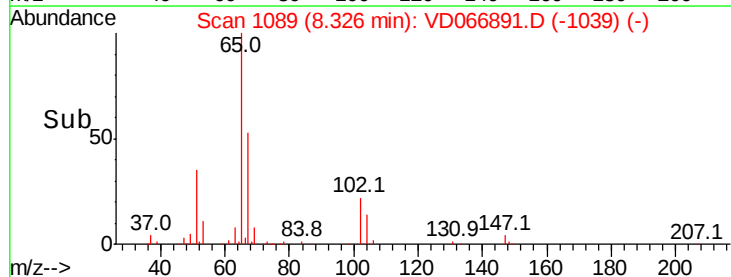
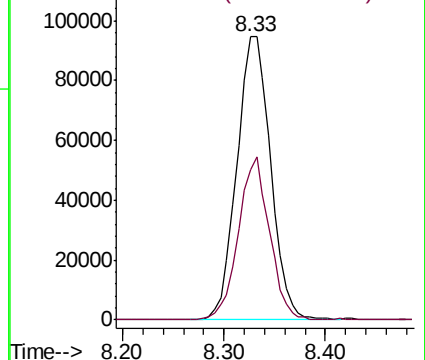
65 100

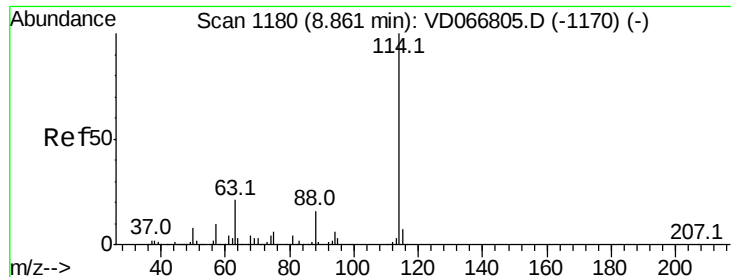
67 52.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

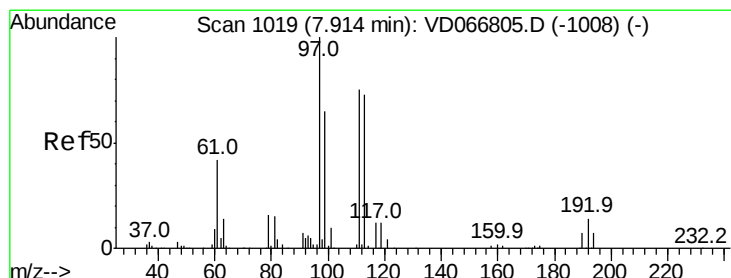
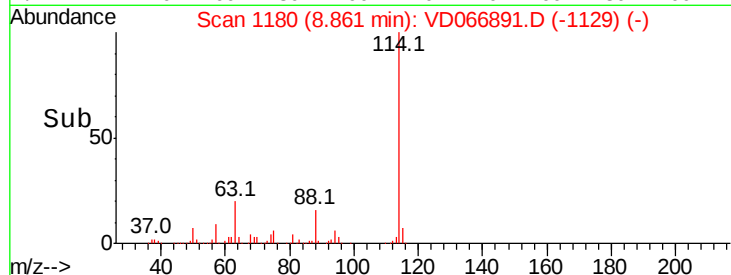
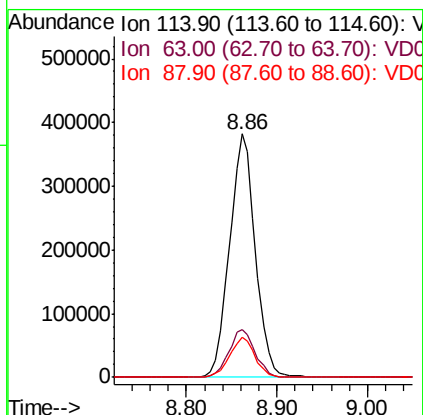
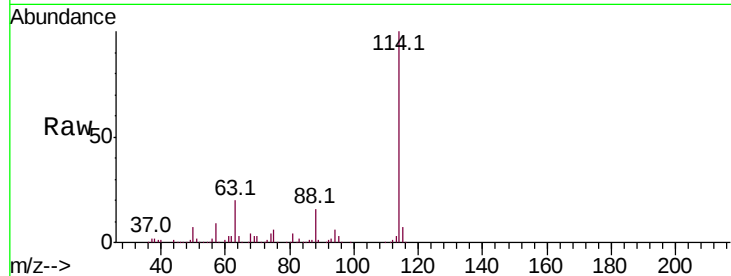




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

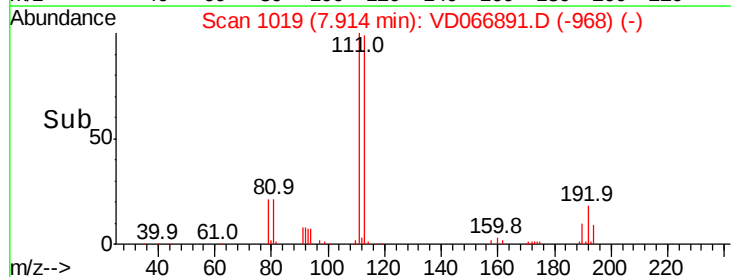
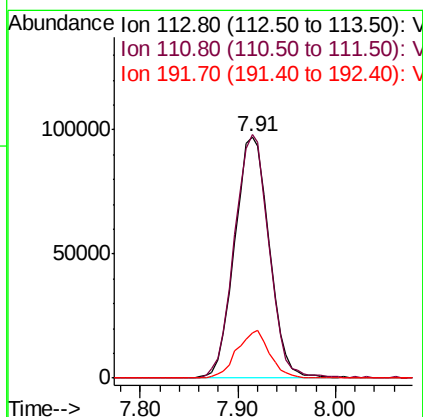
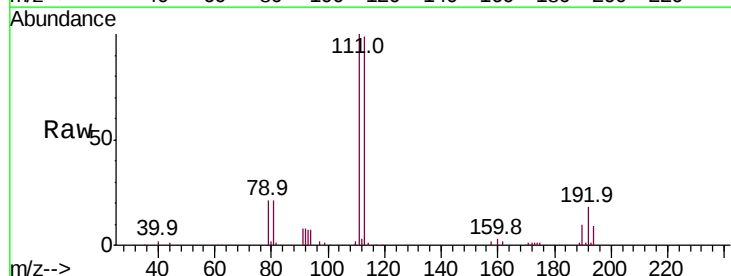
Instrument :
 MSVOA_D
 ClientSampleId :
 B-1(1-2)

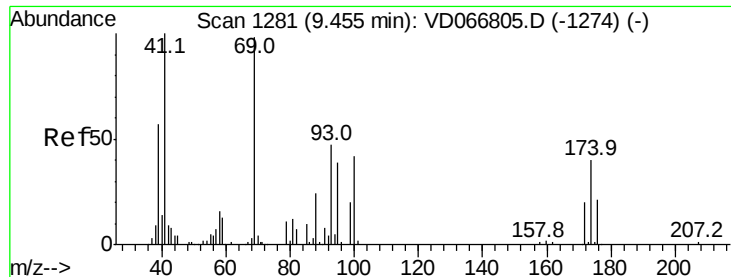
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.6
88	16.5	0.0	32.6



#35
 Dibromofluoromethane
 Concen: 49.991 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD066891.D
 Acq: 26 Sep 2020 00:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.8	122.8
192	18.7	14.4	21.6





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.46 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampleId :

B-1(1-2)

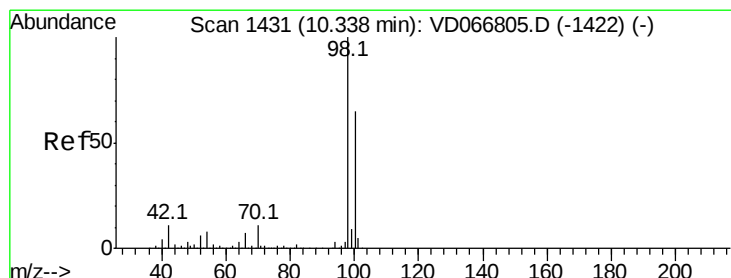
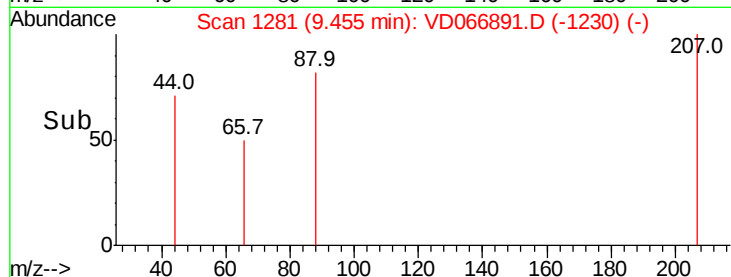
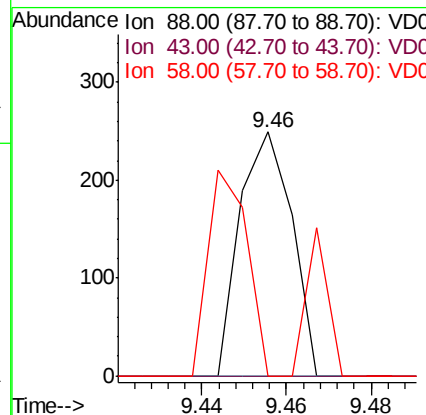
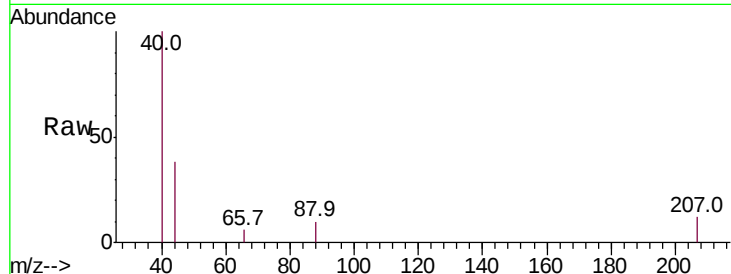
Tot Ion: 88 Resp: 212

Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

58 25.5 55.5 83.3#



#50

Toluene-d8

Concen: 55.729 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066891.D

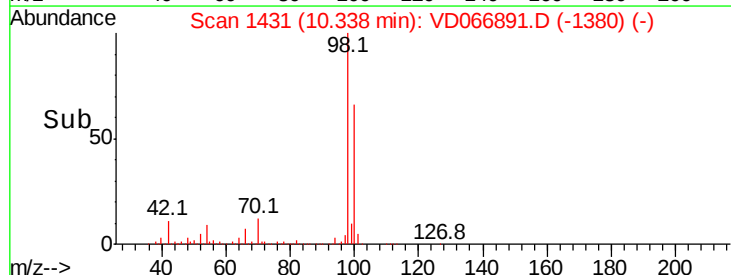
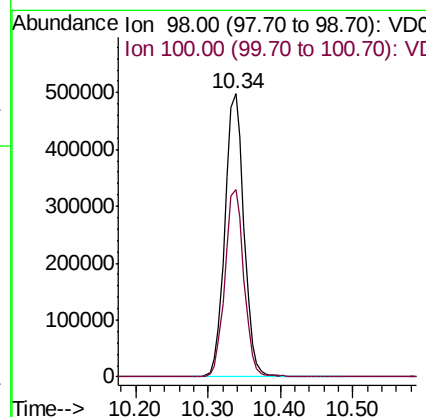
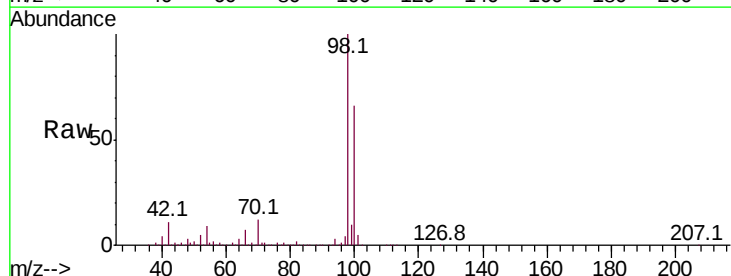
Acq: 26 Sep 2020 00:49

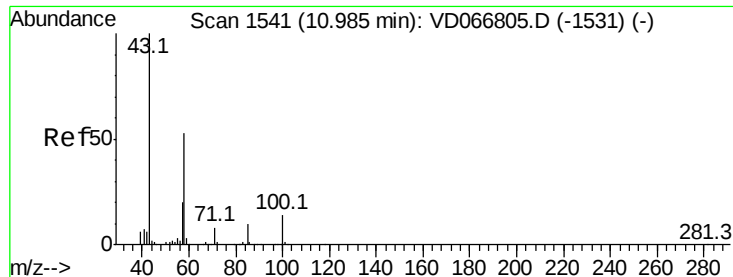
Tgt Ion: 98 Resp: 911915

Ion Ratio Lower Upper

98 100

100 66.0 52.2 78.2





#59

2-Hexanone

Concen: 2.800 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampleId :

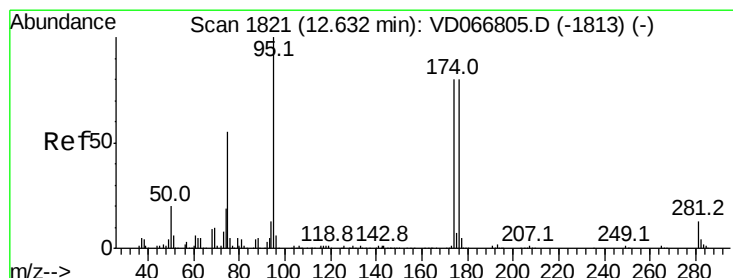
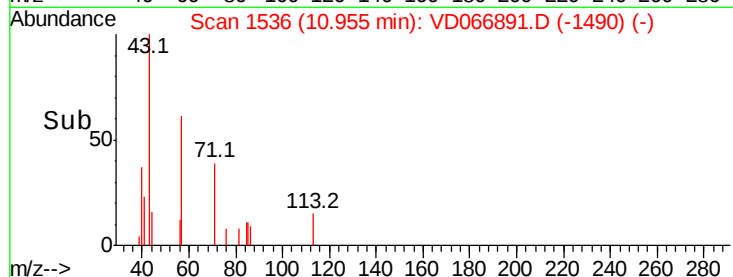
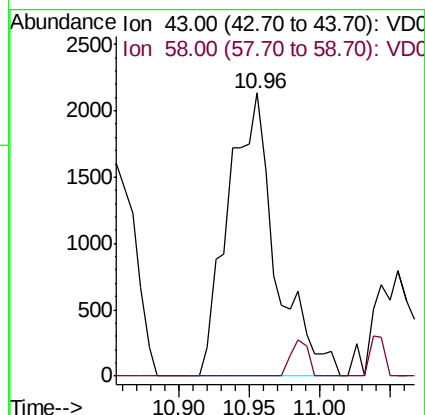
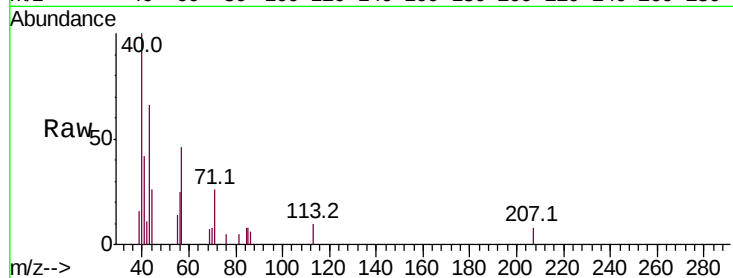
B-1(1-2)

Tot Ion: 43 Resp: 4995

Ion Ratio Lower Upper

43 100

58 0.0 27.0 80.8#



#62

4-Bromofluorobenzene

Concen: 66.505 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

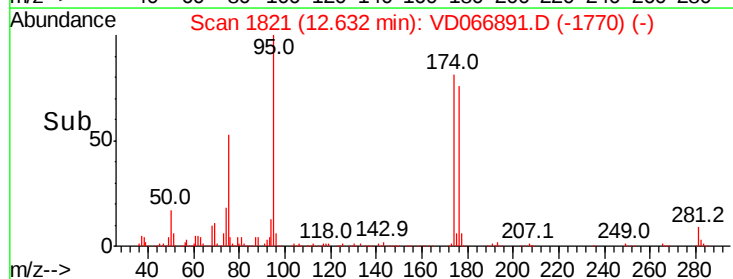
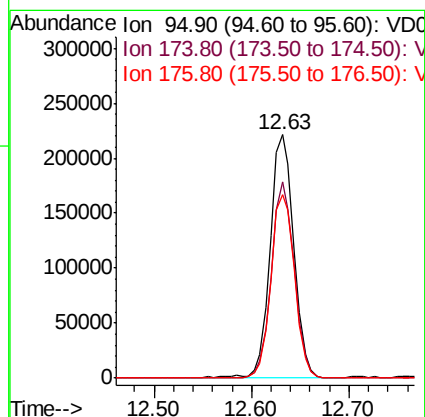
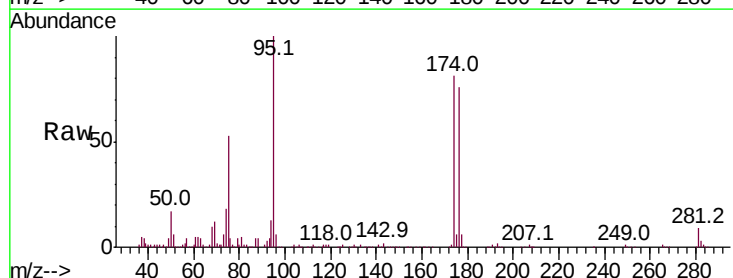
Tgt Ion: 95 Resp: 372548

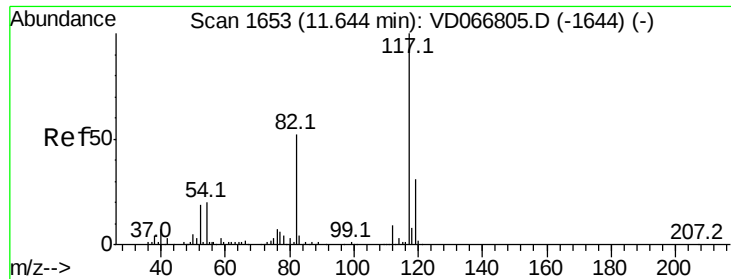
Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.8

176 76.0 0.0 154.4

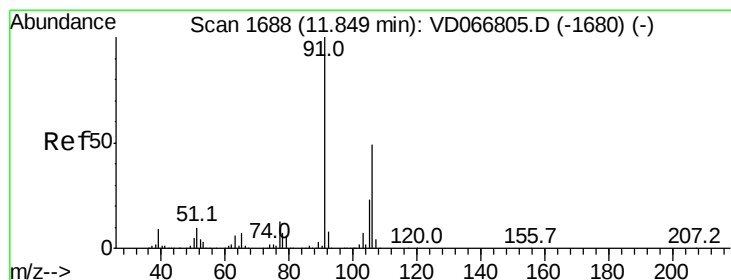
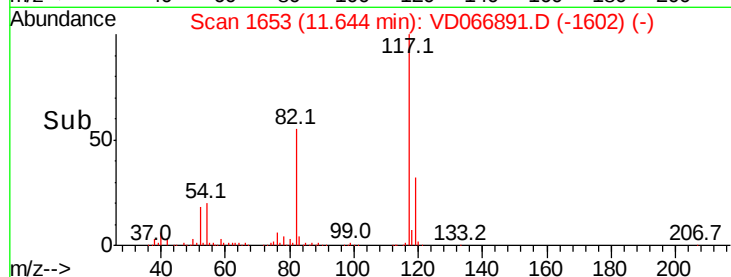
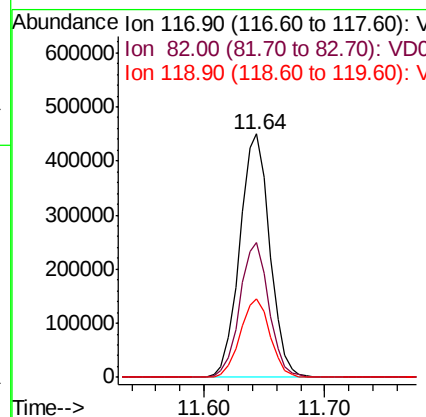
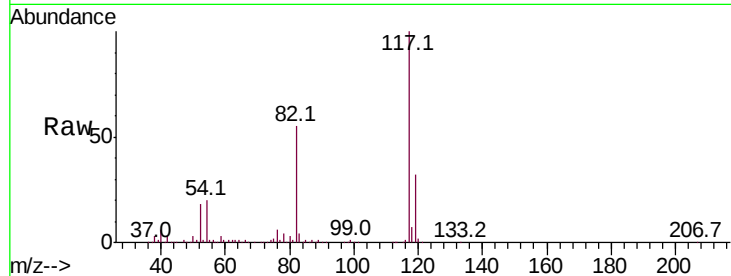




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

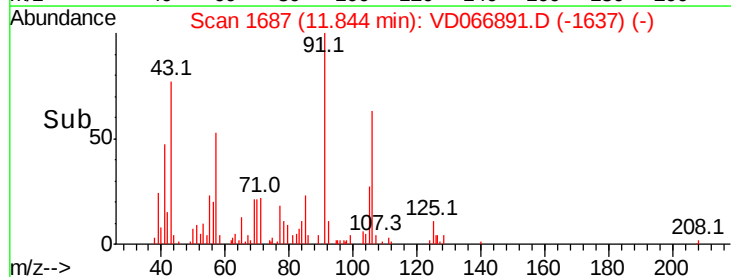
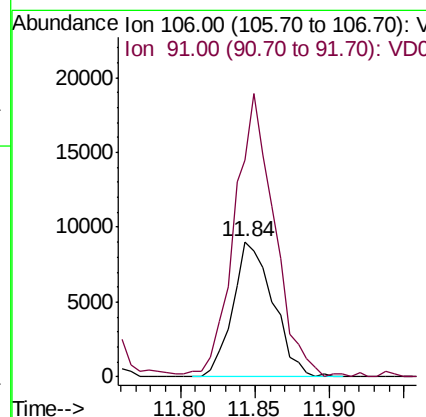
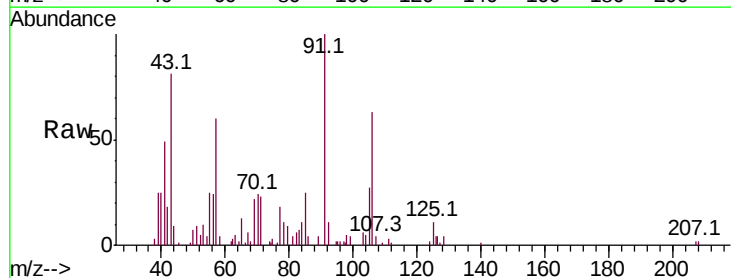
Instrument :
MSVOA_D
ClientSampleId :
B-1(1-2)

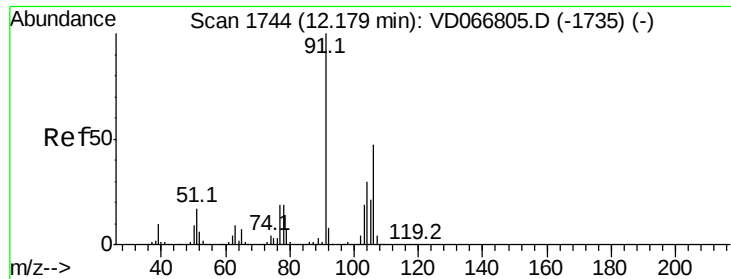
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	41.8	62.6
119	32.2	24.6	37.0



#68
m/p-Xylenes
Concen: 1.573 ug/l
RT: 11.84 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

Tgt Ion	Ratio	Lower	Upper
106	100		
91	207.0	160.7	241.1

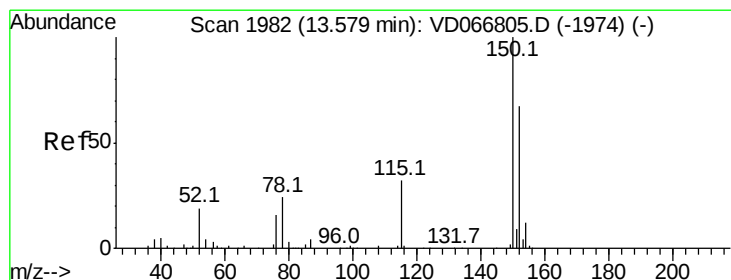
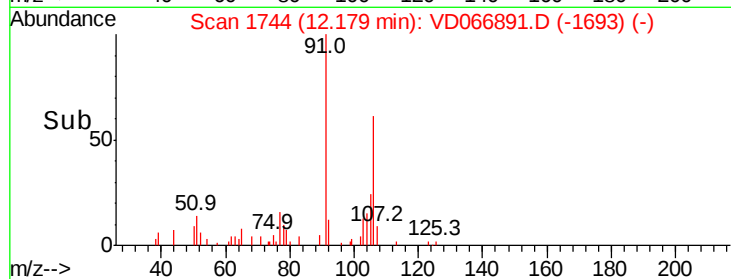
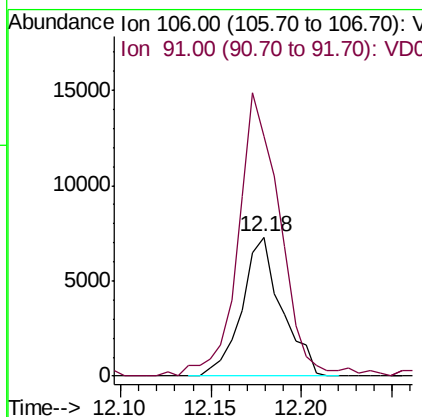
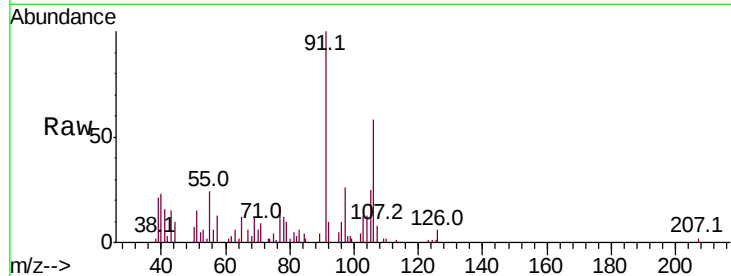




#69
o-Xylene
Concen: 1.138 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

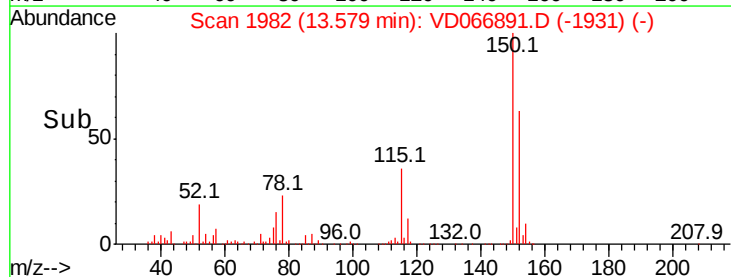
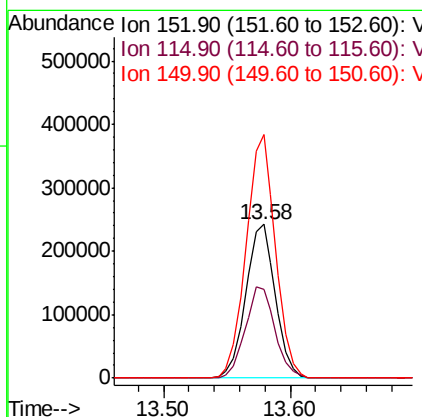
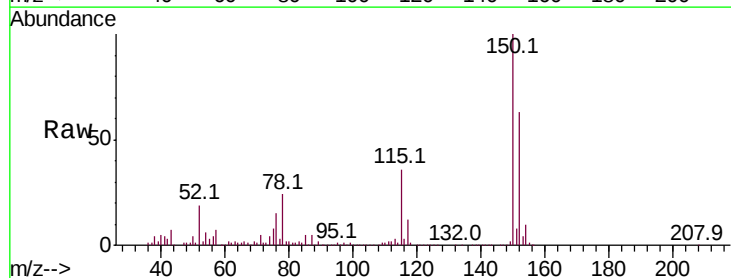
Instrument :
MSVOA_D
ClientSampleId :
B-1(1-2)

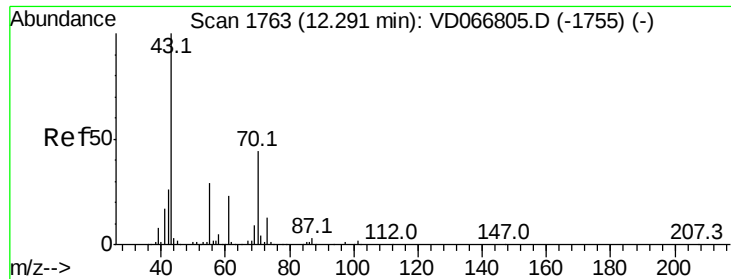
Tot Ion:106 Resp: 11142
Ion Ratio Lower Upper
106 100
91 215.1 106.3 318.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066891.D
Acq: 26 Sep 2020 00:49

Tgt Ion:152 Resp: 392357
Ion Ratio Lower Upper
152 100
115 59.5 30.3 91.0
150 156.7 0.0 346.2





#74

N-amvl acetate

Concen: 2.523 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

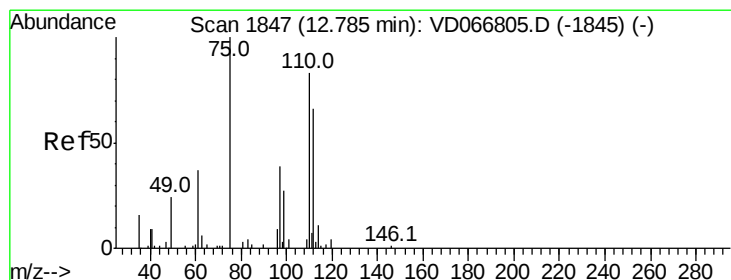
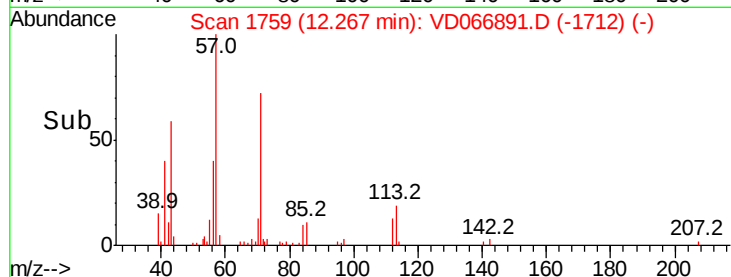
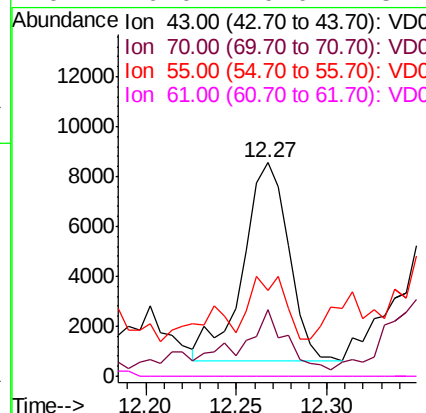
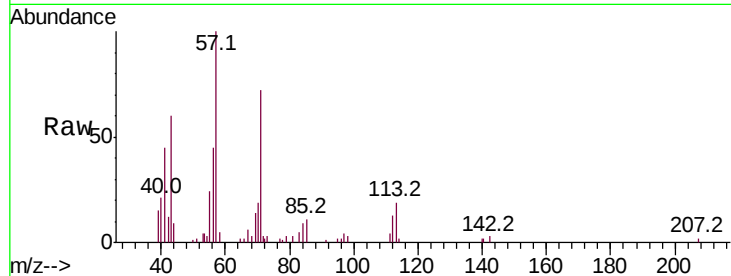
Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :
MSVOA_D
ClientSampled :
B-1(1-2)

Tot Ion: 43 Resp: 13966

Ion	Ratio	Lower	Upper
43	100		
70	29.0	36.1	54.1#
55	23.9	21.8	32.8
61	0.0	19.0	28.4#



#76

1,2,3-Trichloropropane

Concen: 60.395 ug/l

RT: 12.63 min Scan# 1821

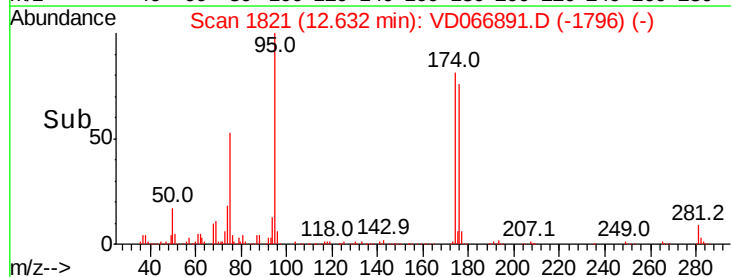
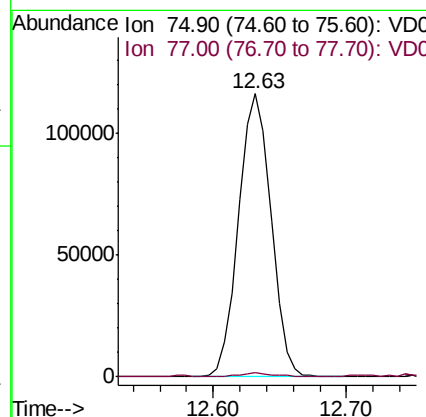
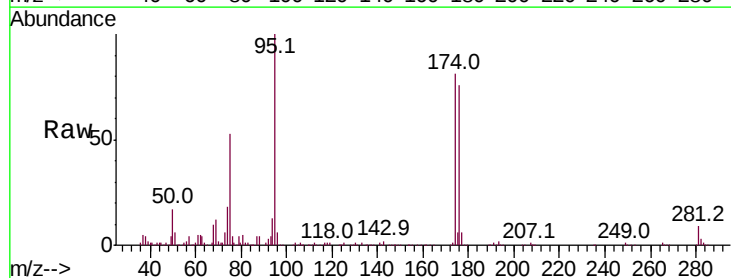
Delta R.T. -0.15 min

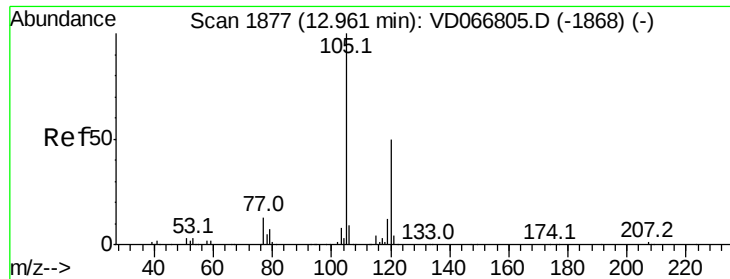
Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Tgt Ion: 75 Resp: 196378

Ion	Ratio	Lower	Upper
75	100		
77	1.6	0.0	0.0#





#80

1,3,5-Trimethylbenzene

Concen: 2.146 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampleId :

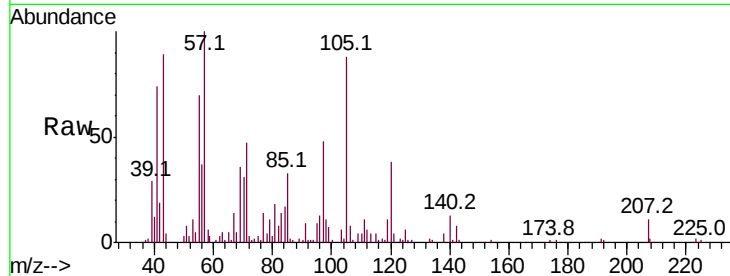
B-1(1-2)

Tot Ion:105 Resp: 51608

Ion Ratio Lower Upper

105 100

120 49.9 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.96

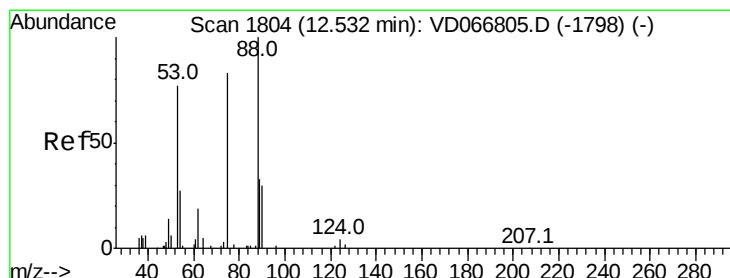
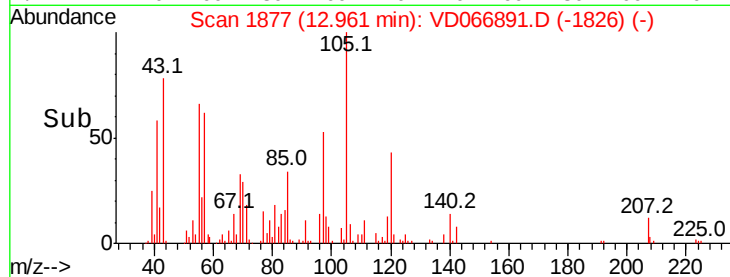
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 151.104 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

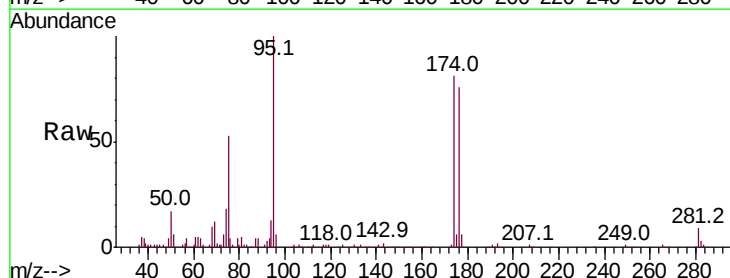
Tgt Ion: 75 Resp: 196378

Ion Ratio Lower Upper

75 100

53 0.2 78.5 117.7#

89 0.0 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

12.63

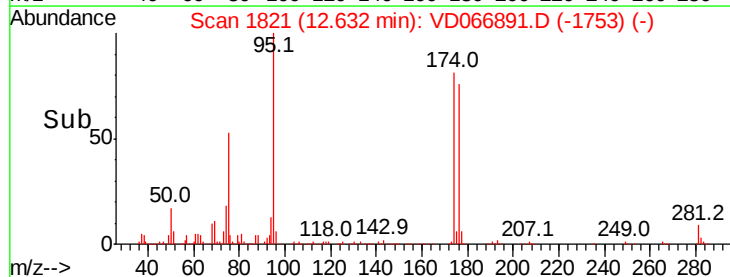
150000

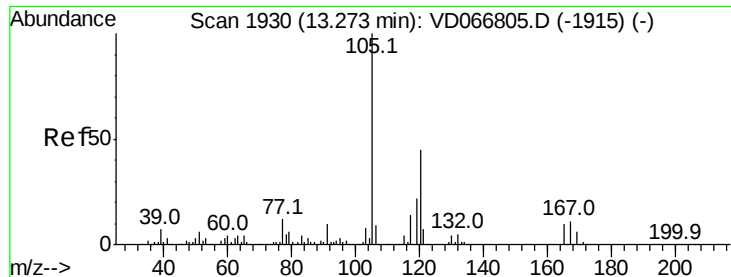
100000

50000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 3.361 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampleId :

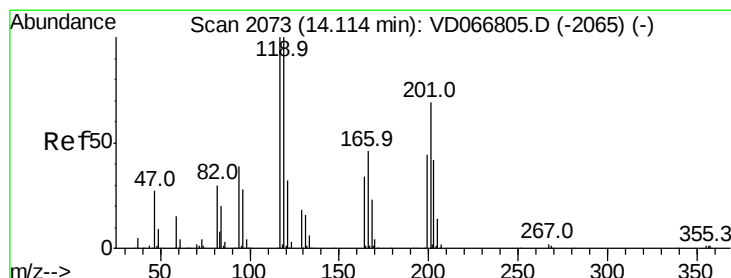
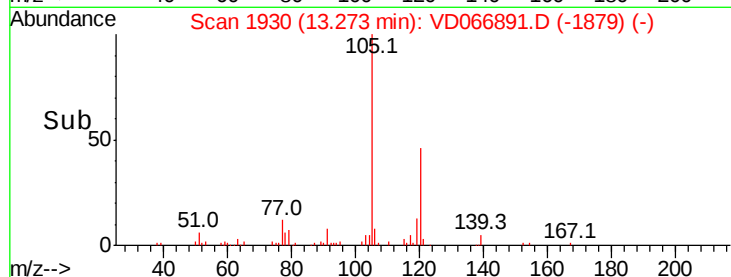
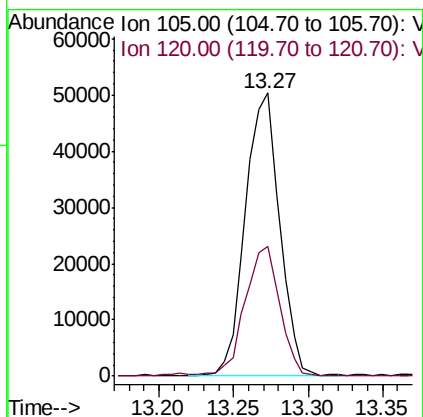
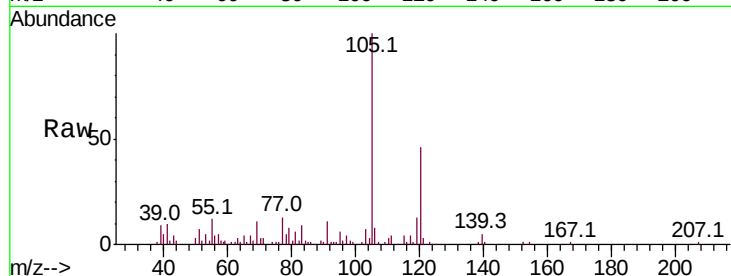
B-1(1-2)

Tot Ion:105 Resp: 80164

Ion Ratio Lower Upper

105 100

120 46.5 22.3 66.9



#90

Hexachloroethane

Concen: 1.619 ug/l

RT: 14.11 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VD066891.D

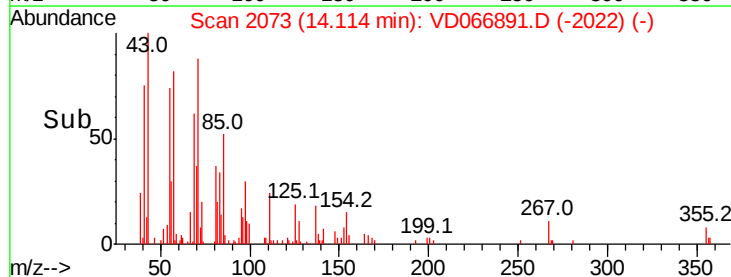
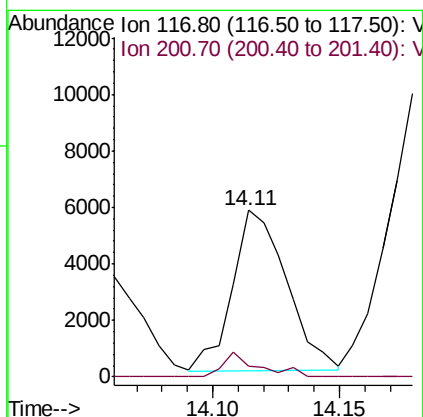
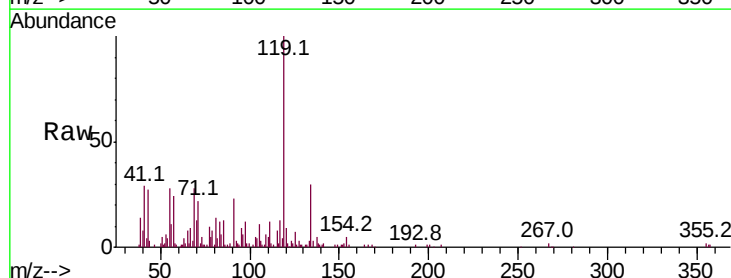
Acq: 26 Sep 2020 00:49

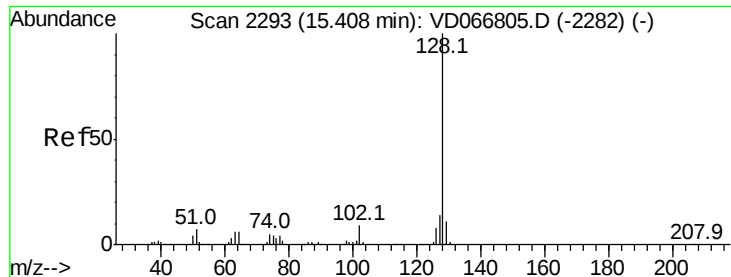
Tgt Ion:117 Resp: 8419

Ion Ratio Lower Upper

117 100

201 10.0 33.7 101.0#





#95

Naphthalene

Concen: 3.260 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066891.D

Acq: 26 Sep 2020 00:49

Instrument :

MSVOA_D

ClientSampleId :

B-1(1-2)

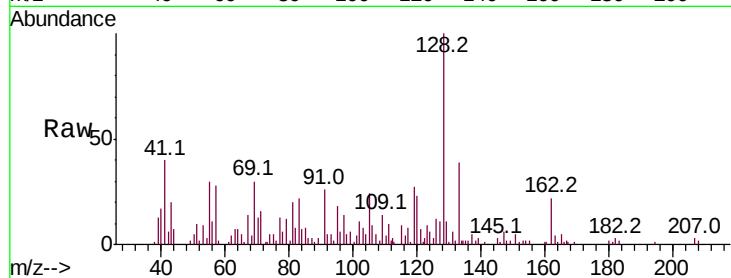
Tot Ion:128 Resp: 39044

Ion Ratio Lower Upper

128 100

127 8.7 10.6 16.0#

129 9.4 8.9 13.3



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

