

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011720\
 Data File : VD064865.D
 Acq On : 17 Jan 2020 16:12
 Operator : VA/SY
 Sample : L1176-03
 Misc : 5.26G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

Quant Time: Jan 17 22:53:20 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	7.97	168	96	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.87	114	391	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	249	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.35	98	492	53.55	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.66	95	143	49.22	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.44%	

Target Compounds

						Qvalue
6) Chloroethane	2.93	64	126	147.810	ug/l #	42
11) Tert butyl alcohol	5.29	59	60	1236.751	ug/l #	70
12) 1,1-Dichloroethene	4.12	96	164	194.176	ug/l #	38
14) Allyl chloride	4.73	41	65	49.361	ug/l #	19
15) Acrylonitrile	5.36	53	73	412.004	ug/l #	17
16) Acetone	4.11	43	67	404.096	ug/l #	42
17) Carbon Disulfide	4.47	76	229	83.853	ug/l #	75
18) Methyl Acetate	4.76	43	115	241.303	ug/l #	51
19) Methyl tert-butyl Ether	5.57	73	78	41.579	ug/l #	52
21) trans-1,2-Dichloroethene	5.47	96	73	75.894	ug/l #	1
23) Vinyl Acetate	6.36	43	159	106.717	ug/l #	72
25) 2-Butanone	7.27	43	54	232.071	ug/l #	49
27) cis-1,2-Dichloroethene	7.01	96	63	60.689	ug/l #	1
36) 1,1-Dichloropropene	8.14	75	72	19.132	ug/l #	41
37) Ethyl Acetate	7.27	43	54	36.525	ug/l #	70
39) Methylcyclohexane	9.37	83	159	34.883	ug/l #	20
40) Benzene	8.36	78	179	17.423	ug/l #	50
41) Methacrylonitrile	7.59	41	98	114.246	ug/l #	7
43) Isopropyl Acetate	8.40	43	55	18.690	ug/l #	52
45) 1,2-Dichloropropane	9.48	63	62	25.276	ug/l #	43
48) Methyl methacrylate	9.37	41	71	51.242	ug/l #	10
51) 4-Methyl-2-Pentanone	10.23	43	54	37.126	ug/l #	37
52) Toluene	10.42	92	69	10.237	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.87	63	57	64.998	ug/l #	45
59) 2-Hexanone	10.98	43	98	99.269	ug/l #	26
64) Tetrachloroethene	10.88	164	55	22.687	ug/l #	1
65) Chlorobenzene	11.68	112	62	9.453	ug/l #	44
67) Ethyl Benzene	11.76	91	174	14.617	ug/l #	44
68) m/p-Xylenes	11.87	106	143	31.123	ug/l #	69
69) o-Xylene	12.18	106	65	15.662	ug/l	83
73) Isopropylbenzene	12.48	105	338	18.995	ug/l #	48
74) N-amyl acetate	12.41	43	71	18.666	ug/l #	43
78) n-propylbenzene	12.83	91	582	28.036	ug/l #	51
79) 2-Chlorotoluene	12.92	91	132	11.575	ug/l	90

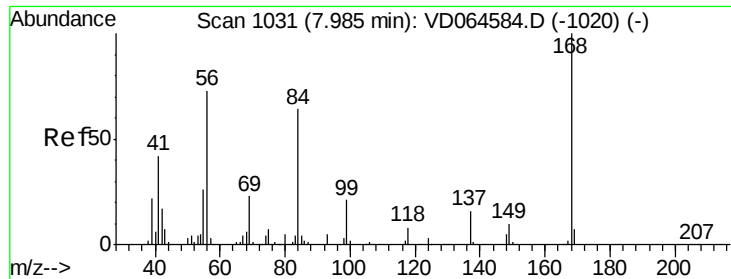
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011720\
 Data File : VD064865.D
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 Operator : VA/SY
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) 1,3,5-Trimethylbenzene	12.98	105	288	19.703	ug/l	98
82) 4-Chlorotoluene	12.92	91	132	10.877	ug/l	90
83) tert-Butylbenzene	13.23	119	140	11.031	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.28	105	134	9.205	ug/l #	29
85) sec-Butylbenzene	13.41	105	443	25.461	ug/l #	55
86) p-Isopropyltoluene	13.53	119	71	4.268	ug/l #	51
89) n-Butylbenzene	13.86	91	195	13.016	ug/l #	66
91) 1,2-Dichlorobenzene	13.90	146	131	18.432	ug/l #	25
92) 1,2-Dibromo-3-Chloropropan	14.66	75	59	130.201	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	63	12.039	ug/l #	12
94) Hexachlorobutadiene	15.29	225	60	18.220	ug/l #	19
95) Naphthalene	15.41	128	122	14.736	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

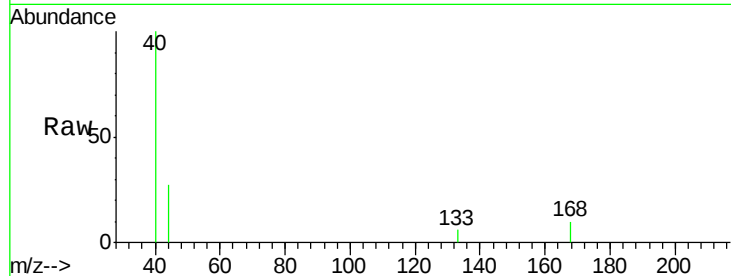
EP-3

Tot Ion:168 Resp: 96

Ion Ratio Lower Upper

168 100

99 0.0 41.8 62.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

250

200

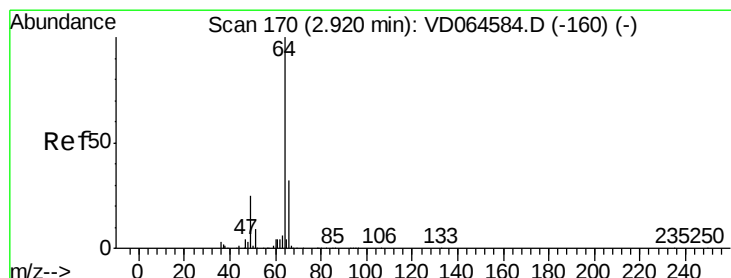
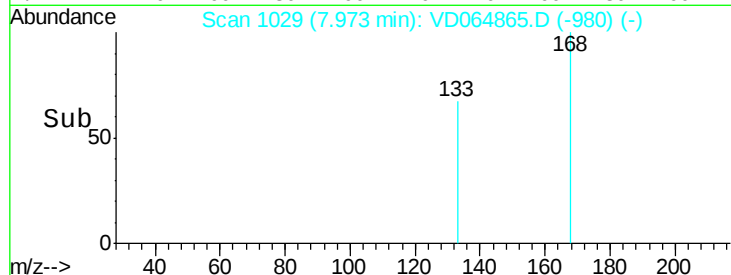
150

100

50

0

Time--> 7.95 7.96 7.97 7.98 7.99



#6

Chloroethane

Concen: 147.810 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD064865.D

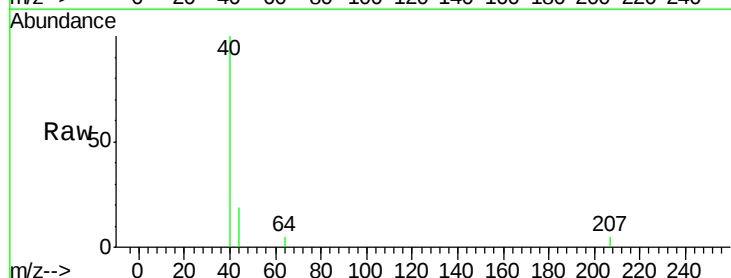
Acq: 17 Jan 2020 16:12

Tgt Ion: 64 Resp: 126

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.93

200

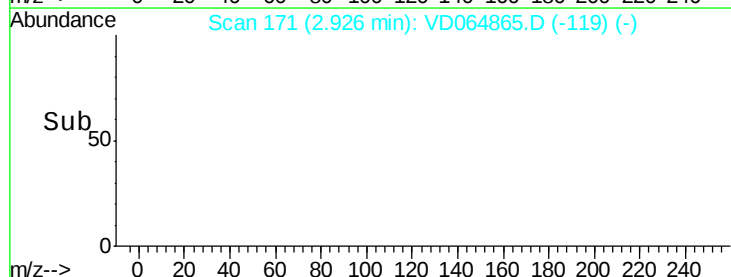
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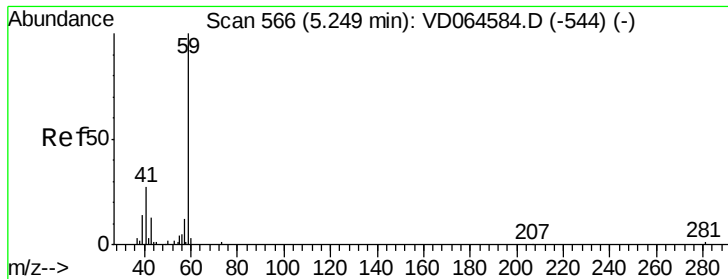
100

50

0

Time--> 2.90 2.92 2.93 2.94 2.96



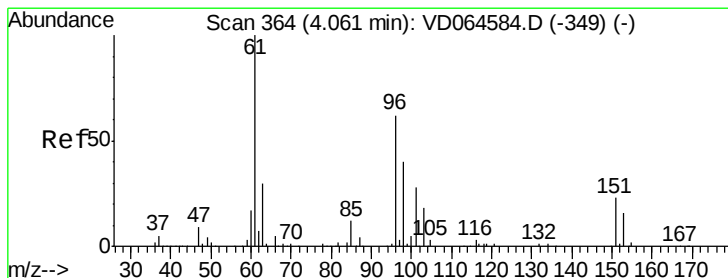
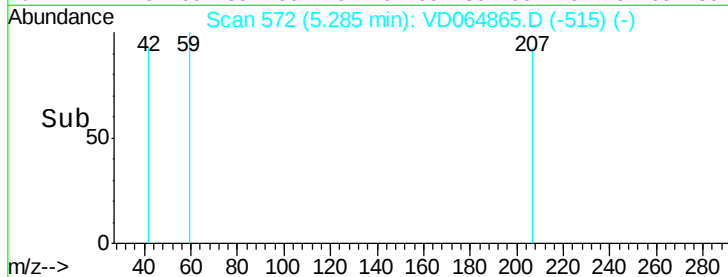
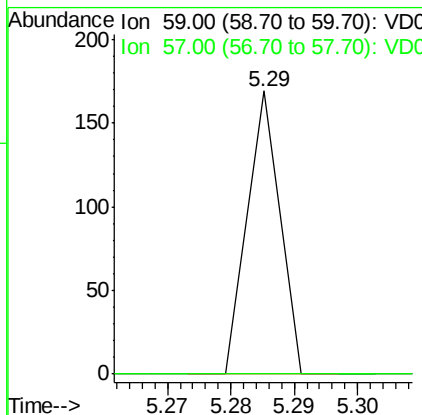
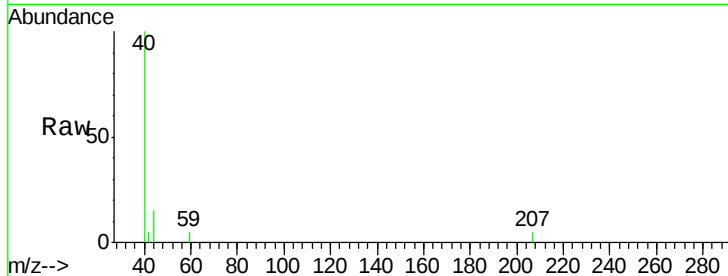


#11

Tert butyl alcohol
 Concen: 1236.751 ug/l
 RT: 5.29 min Scan# 572
 Delta R.T. 0.04 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

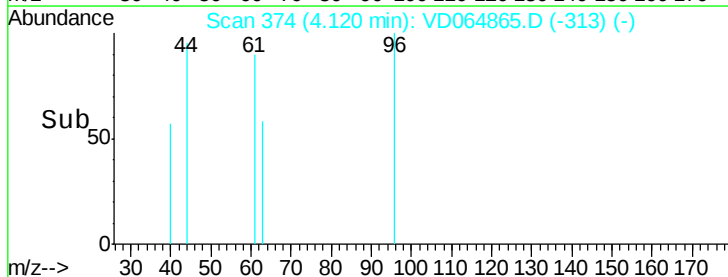
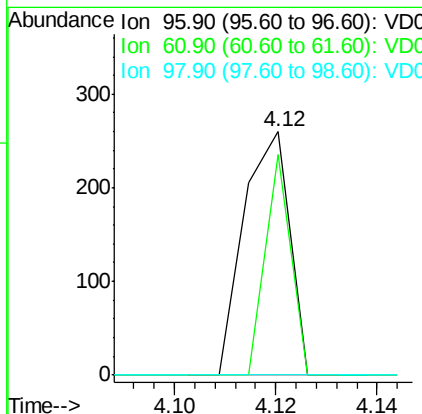
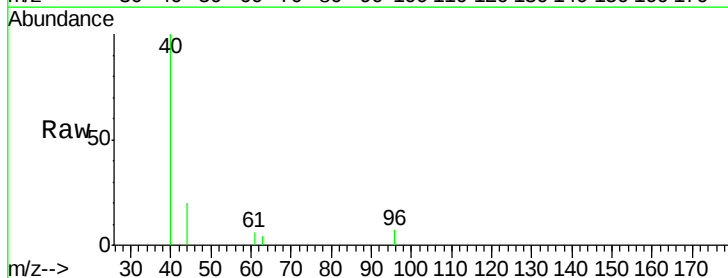
Tot Ion: 59 Resp: 60
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

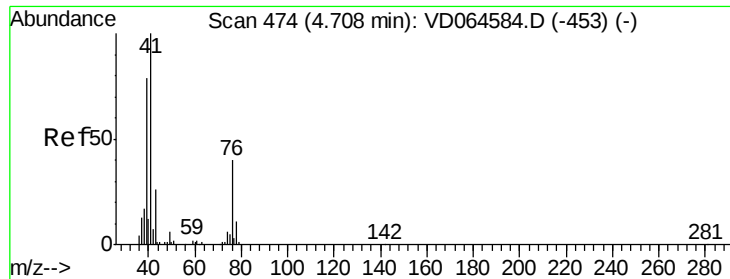


#12

1,1-Dichloroethene
 Concen: 194.176 ug/l
 RT: 4.12 min Scan# 374
 Delta R.T. 0.06 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Tgt Ion: 96 Resp: 164
 Ion Ratio Lower Upper
 96 100
 61 90.4 129.4 194.0#
 98 0.0 51.4 77.0#

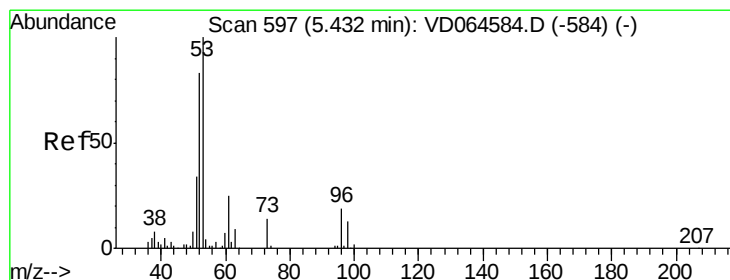
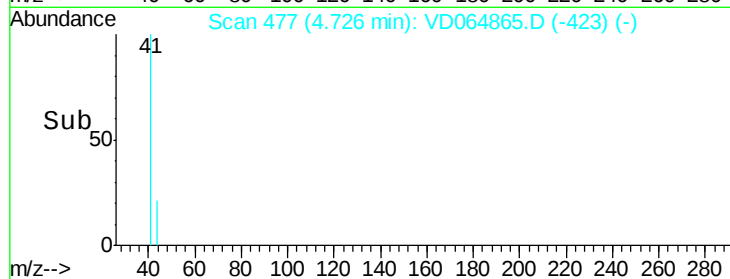
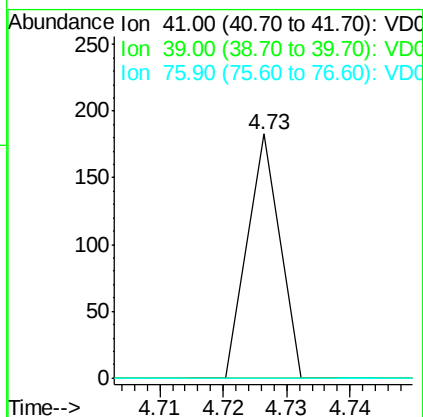
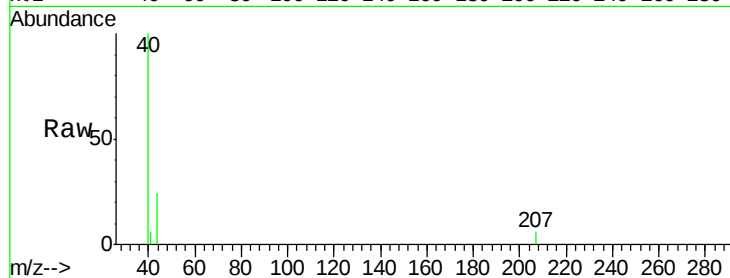




#14
 Allvl chloride
 Concen: 49.361 ug/l
 RT: 4.73 min Scan# 477
 Delta R.T. 0.02 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

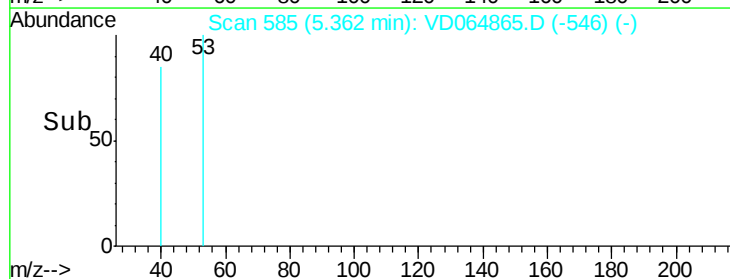
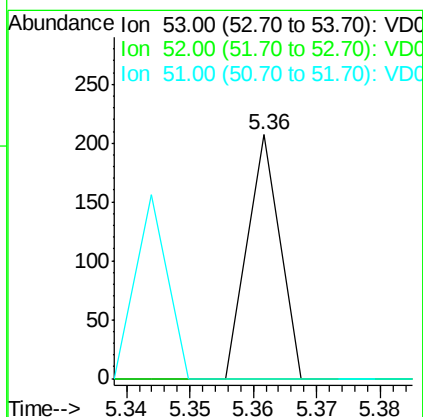
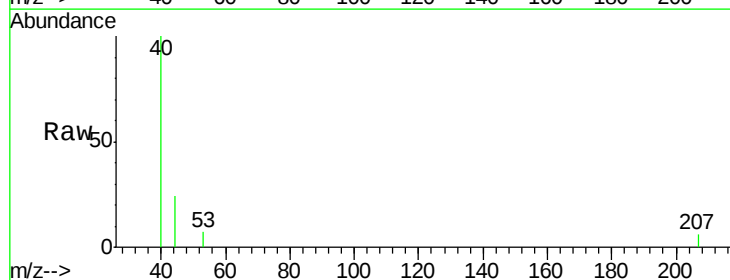
Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

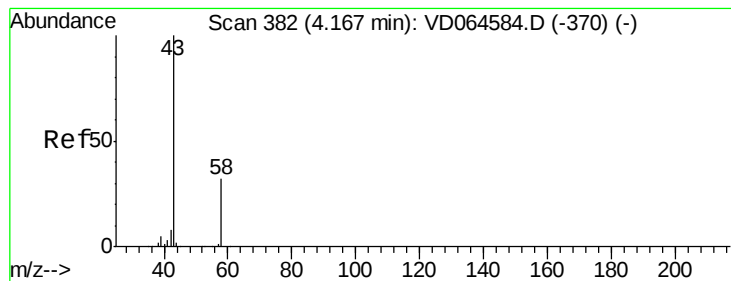
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	62.3	93.5#
76	0.0	29.7	44.5#



#15
 Acrylonitrile
 Concen: 412.004 ug/l
 RT: 5.36 min Scan# 585
 Delta R.T. -0.07 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Tgt Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.2	99.2#
51	75.3	30.1	45.1#





#16

Acetone

Concen: 404.096 ug/l

RT: 4.11 min Scan# 373

Delta R.T. -0.05 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

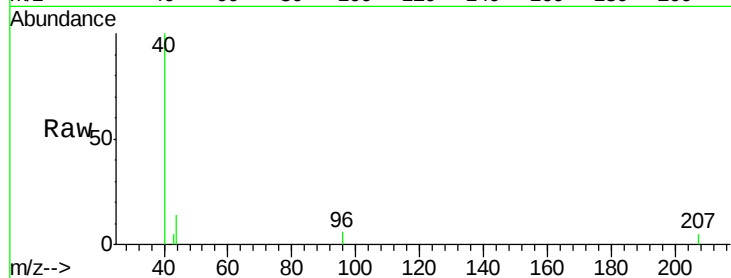
EP-3

Tot Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.11

200

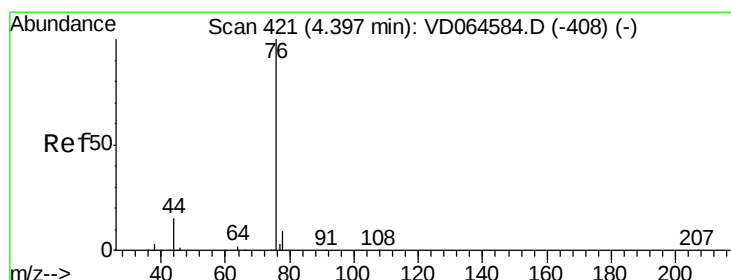
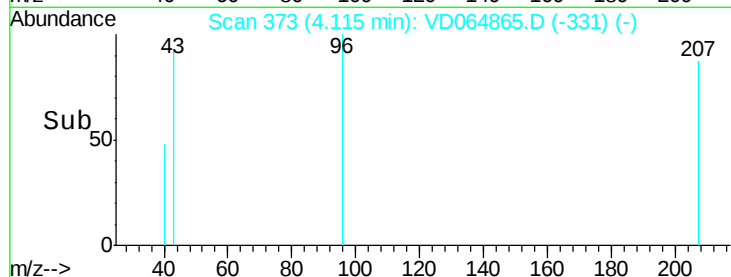
150

100

50

0

Time--> 4.10 4.11 4.12 4.13



#17

Carbon Disulfide

Concen: 83.853 ug/l

RT: 4.47 min Scan# 433

Delta R.T. 0.07 min

Lab File: VD064865.D

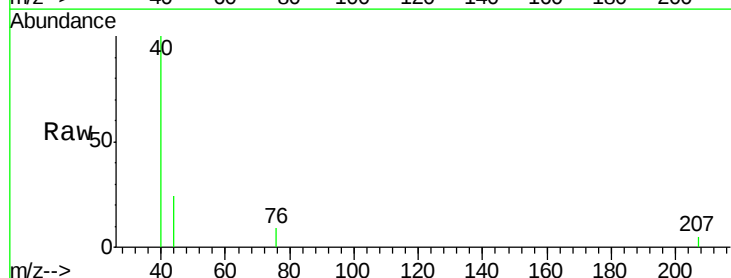
Acq: 17 Jan 2020 16:12

Tgt Ion: 76 Resp: 229

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.47

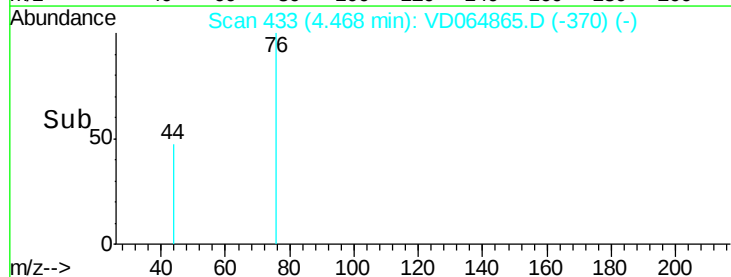
300

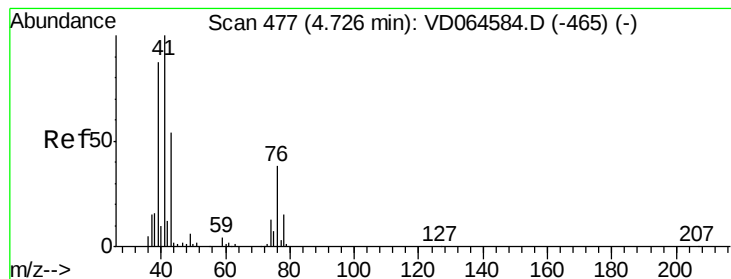
200

100

0

Time--> 4.42 4.44 4.46 4.48





#18

Methyl Acetate

Concen: 241.303 ug/l

RT: 4.76 min Scan# 482

Delta R.T. 0.03 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

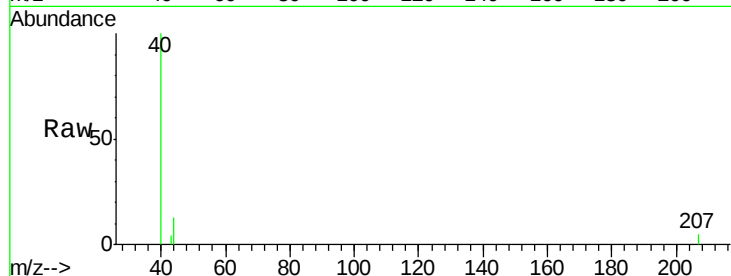
EP-3

Tot Ion: 43 Resp: 115

Ion Ratio Lower Upper

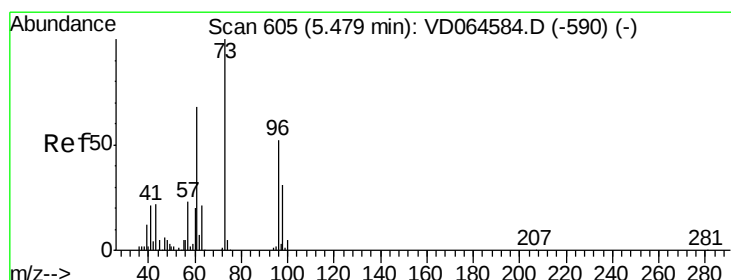
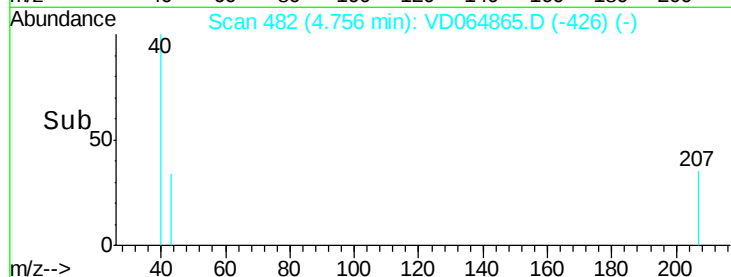
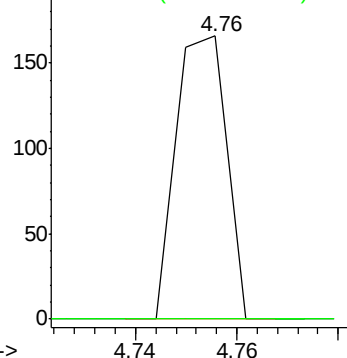
43 100

74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC



#19

Methyl tert-butyl Ether

Concen: 41.579 ug/l

RT: 5.57 min Scan# 621

Delta R.T. 0.09 min

Lab File: VD064865.D

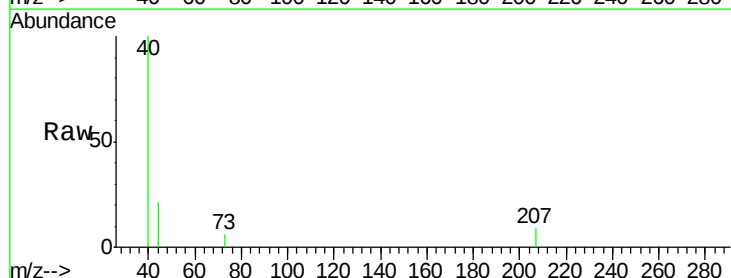
Acq: 17 Jan 2020 16:12

Tgt Ion: 73 Resp: 78

Ion Ratio Lower Upper

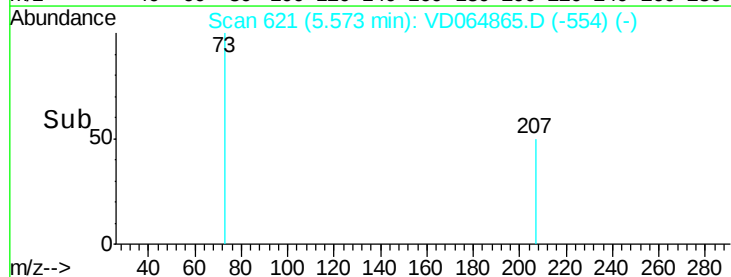
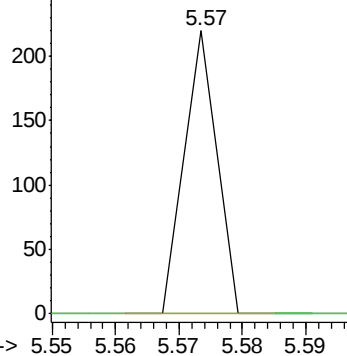
73 100

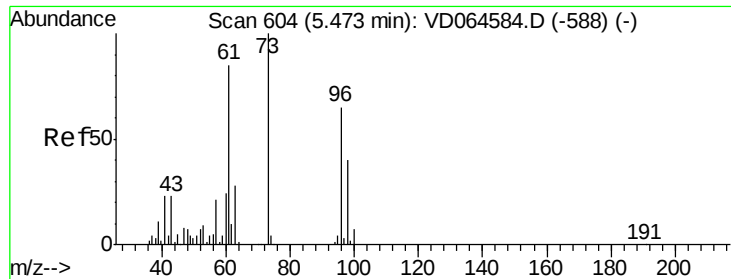
57 0.0 18.6 27.8#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#21

trans-1,2-Dichloroethene

Concen: 75.894 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

EP-3

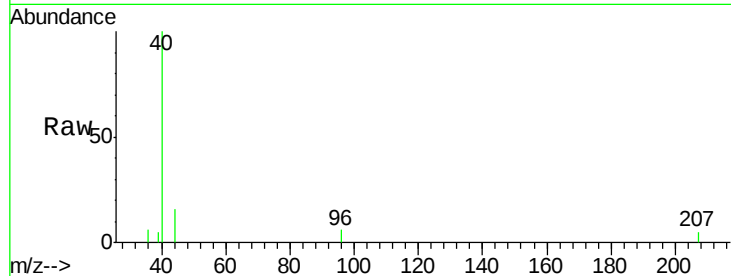
Tot Ion: 96 Resp: 73

Ion Ratio Lower Upper

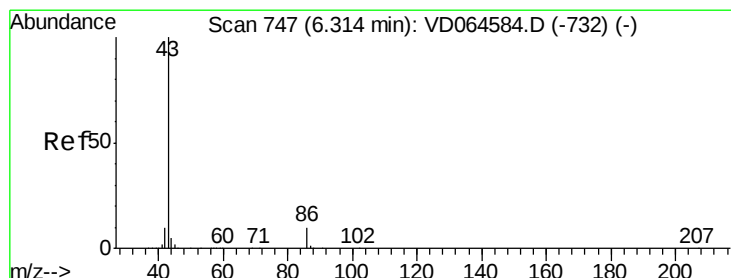
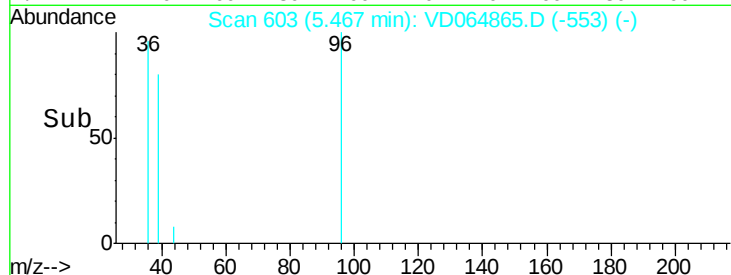
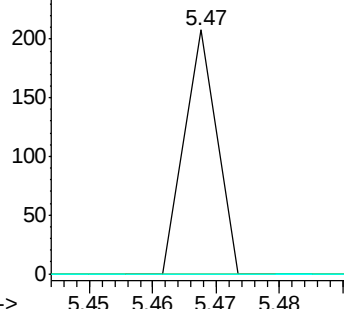
96 100

61 0.0 104.7 157.1#

98 0.0 49.4 74.2#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#23

Vinyl Acetate

Concen: 106.717 ug/l

RT: 6.36 min Scan# 754

Delta R.T. 0.04 min

Lab File: VD064865.D

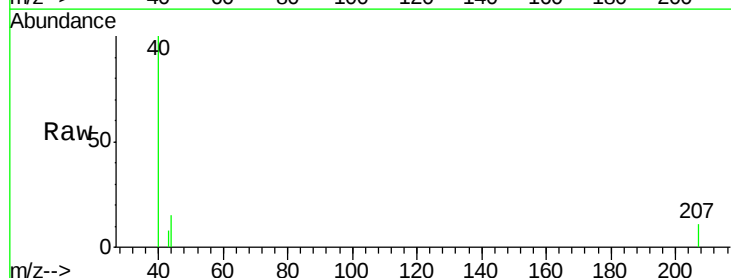
Acq: 17 Jan 2020 16:12

Tgt Ion: 43 Resp: 159

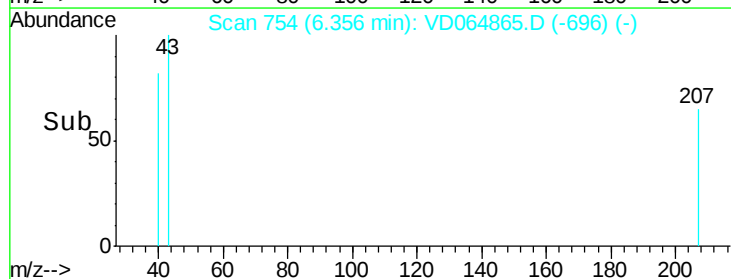
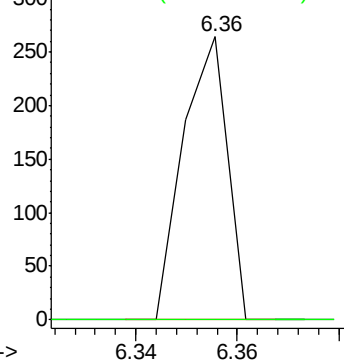
Ion Ratio Lower Upper

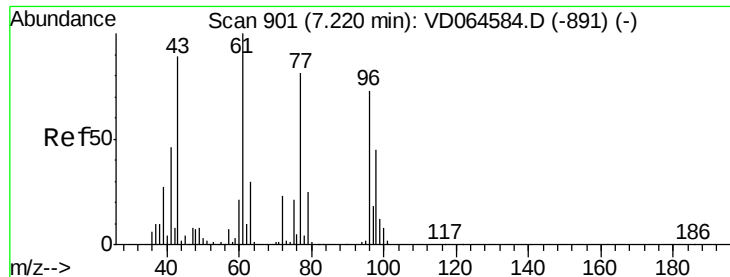
43 100

86 0.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 86.00 (85.70 to 86.70): VDC





#25

2-Butanone

Concen: 232.071 ug/l

RT: 7.27 min Scan# 910

Delta R.T. 0.05 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

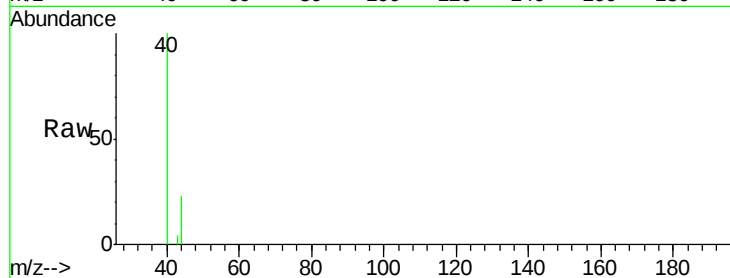
EP-3

Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

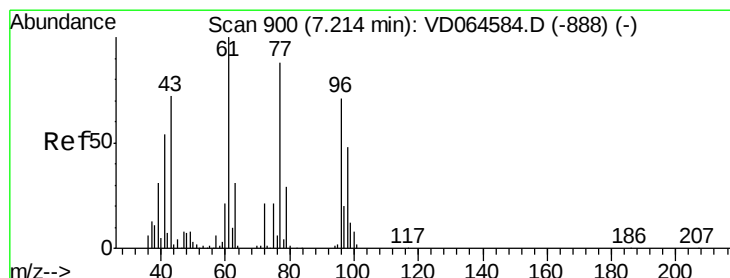
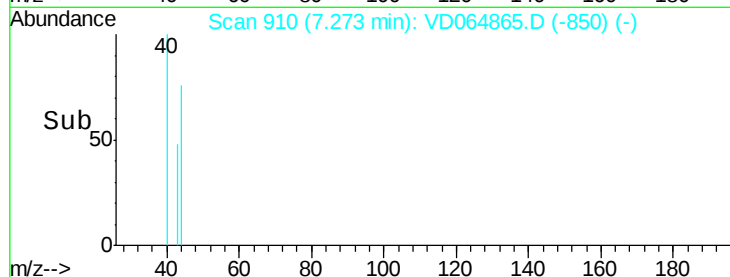
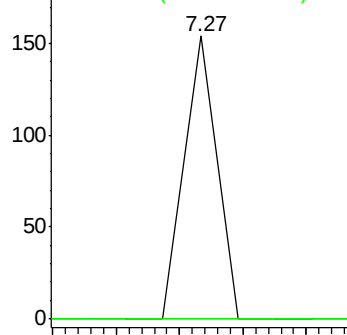
43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 60.689 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.21 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

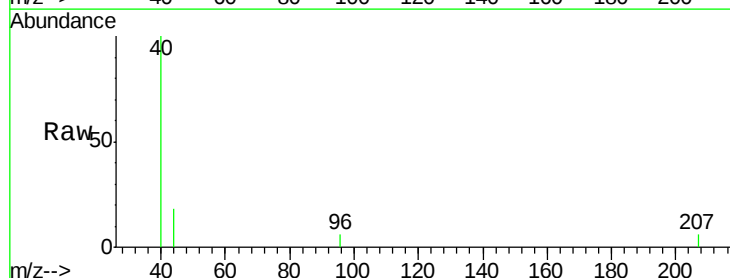
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 0.0 282.6

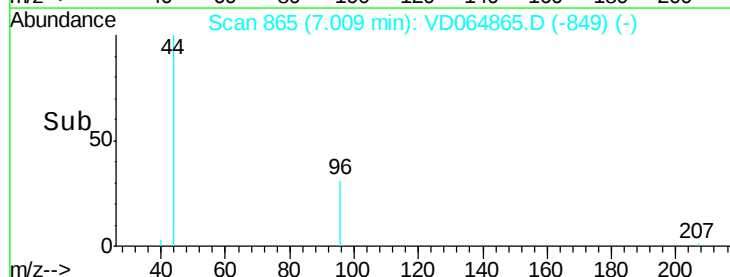
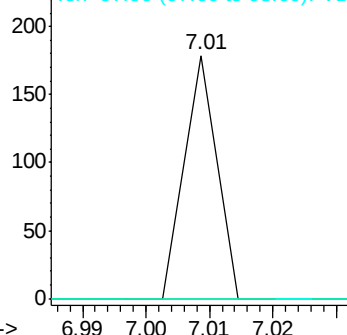
98 0.0 0.0 130.8

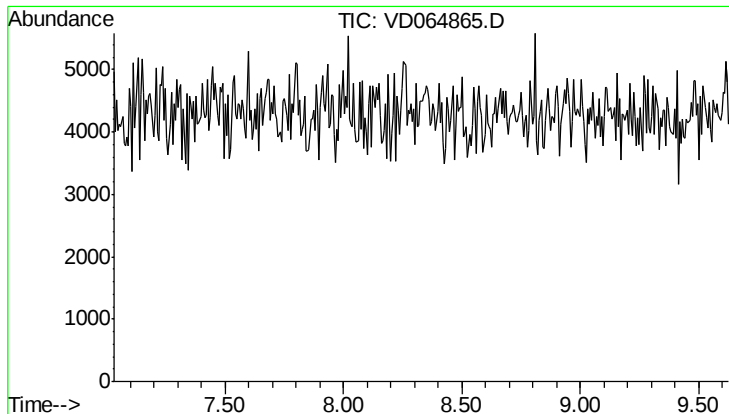


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

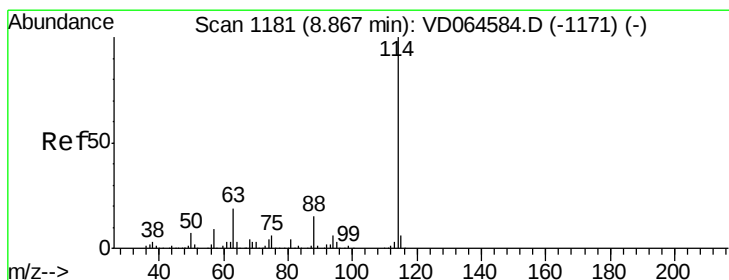
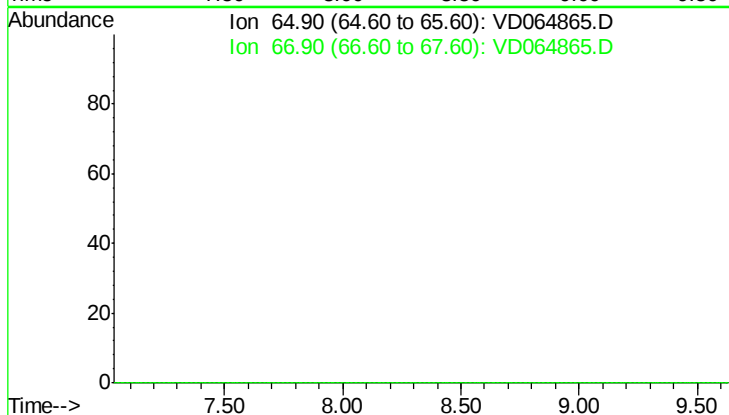




#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 Expected RT: 8.33 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

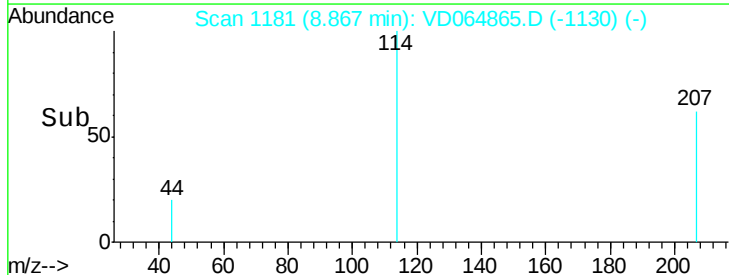
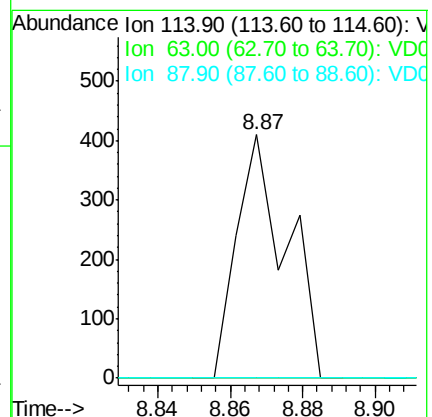
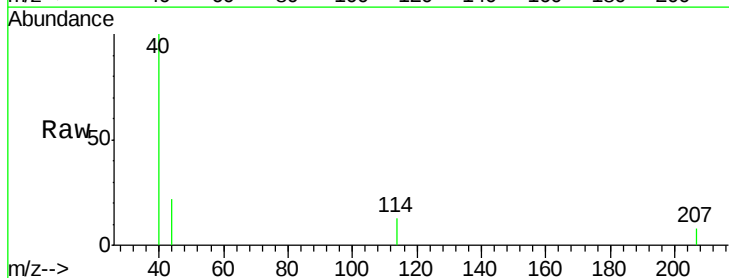
Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

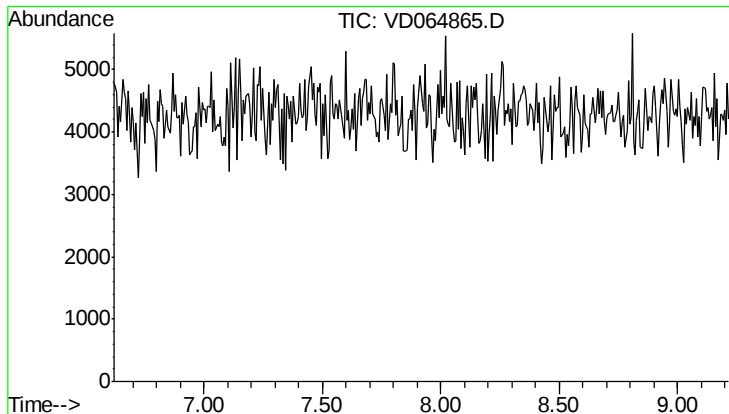
Tot Ion: 65
 Sig Exp Ratio
 65 100
 67 53.1



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Tgt Ion: 114 Resp: 391
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 38.0
 88 0.0 0.0 29.2

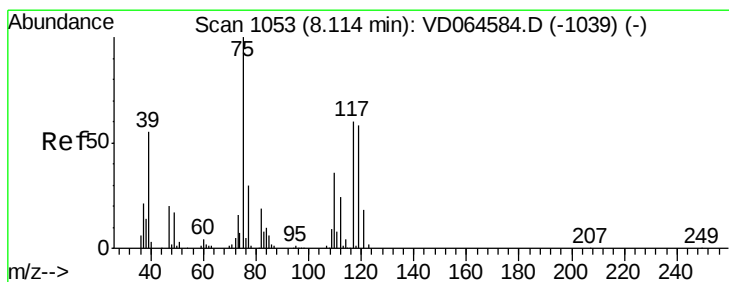
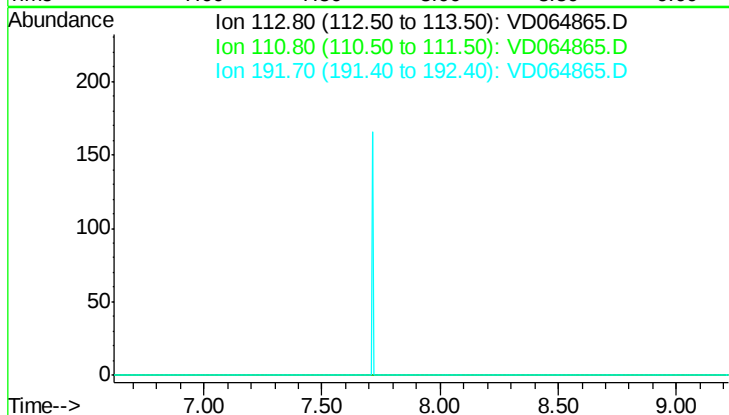




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.92 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

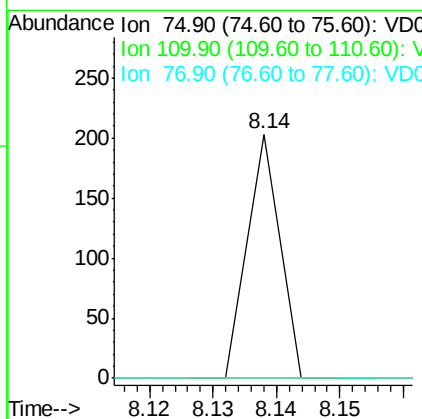
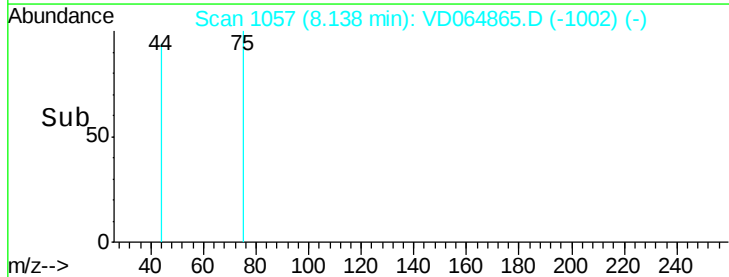
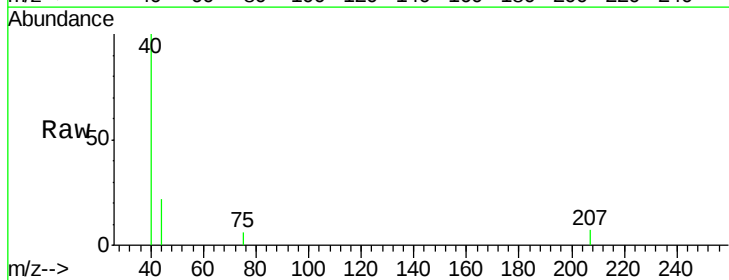
Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

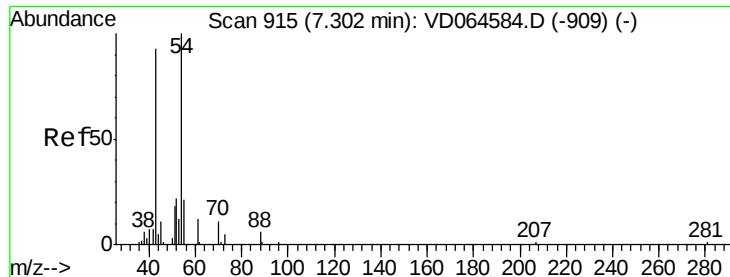
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 100.8
 192 22.4



#36
 1,1-Dichloropropene
 Concen: 19.132 ug/l
 RT: 8.14 min Scan# 1057
 Delta R.T. 0.02 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Tgt Ion: 75 Resp: 72
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.1#
 77 0.0 24.2 36.4#





#37

Ethyl Acetate

Concen: 36.525 ug/l

RT: 7.27 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

EP-3

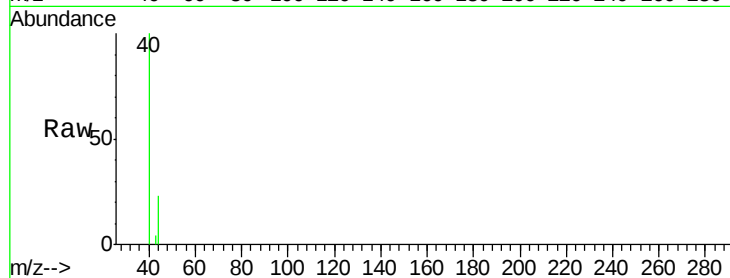
Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

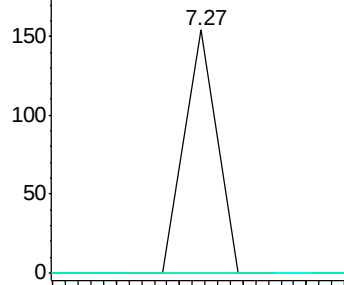
43 100

61 0.0 10.3 15.5#

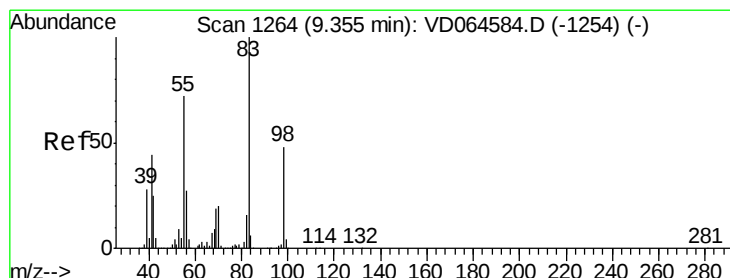
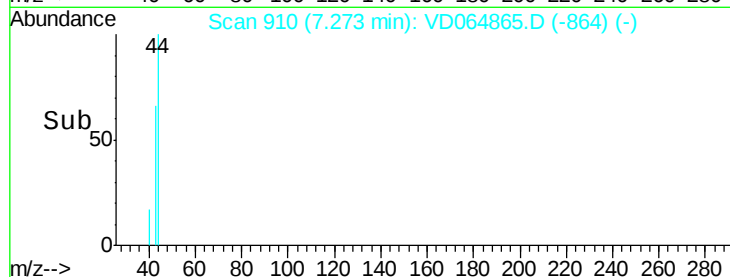
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC



Time--> 7.25 7.26 7.27 7.28 7.29



#39

Methylcyclohexane

Concen: 34.883 ug/l

RT: 9.37 min Scan# 1267

Delta R.T. 0.02 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

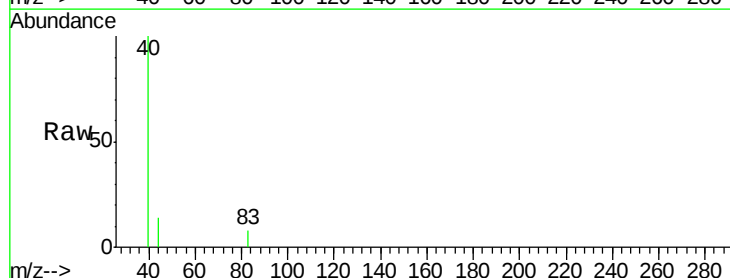
Tgt Ion: 83 Resp: 159

Ion Ratio Lower Upper

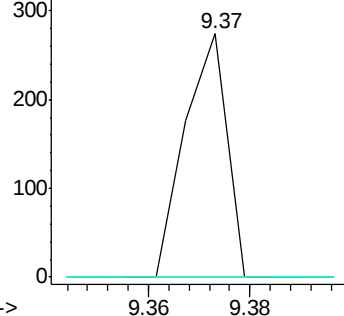
83 100

55 0.0 57.8 86.6#

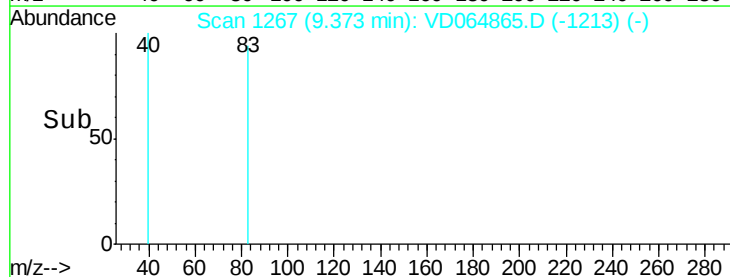
98 0.0 38.7 58.1#

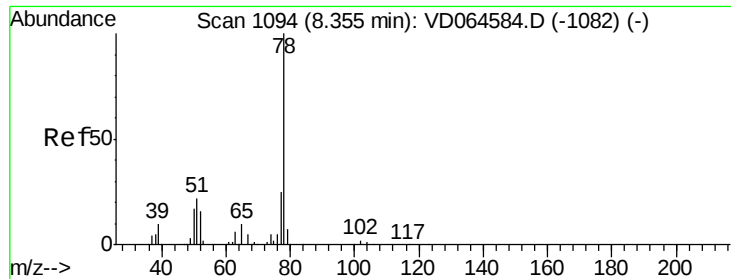


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC



Time--> 9.36 9.38





#40

Benzene

Concen: 17.423 ug/l

RT: 8.36 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

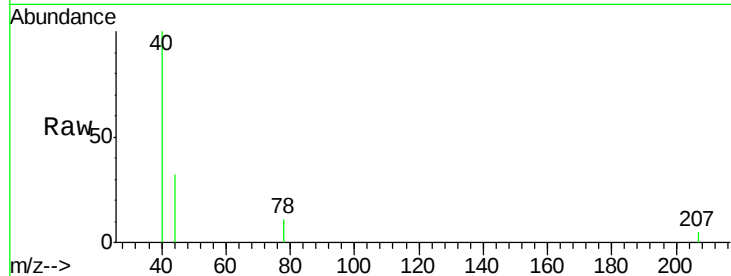
EP-3

Tot Ion: 78 Resp: 179

Ion Ratio Lower Upper

78 100

77 0.0 19.9 29.9#



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC

8.36

300

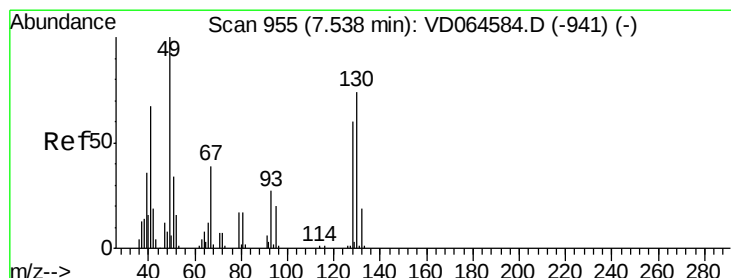
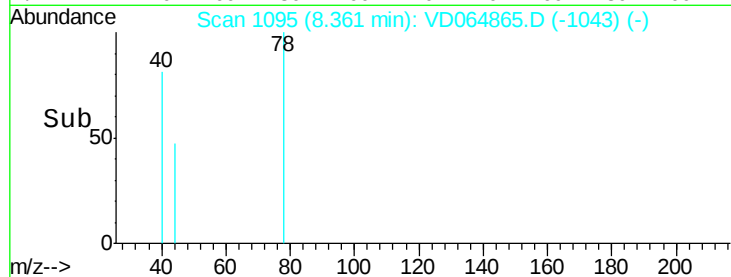
200

100

0

8.34 8.35 8.36 8.37 8.38

Time-->



#41

Methacrylonitrile

Concen: 114.246 ug/l

RT: 7.59 min Scan# 964

Delta R.T. 0.05 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Tgt Ion: 41 Resp: 98

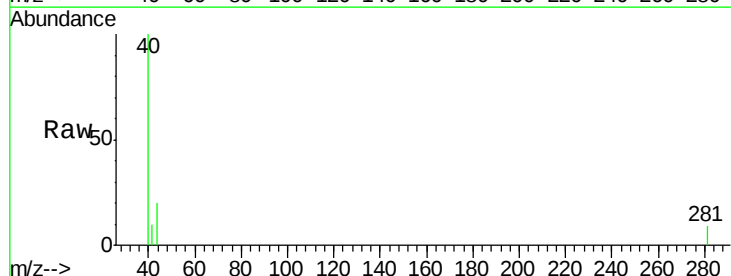
Ion Ratio Lower Upper

41 100

39 150.0 46.7 70.1#

67 0.0 52.5 78.7#

52 0.0 24.1 36.1#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

7.59

400

300

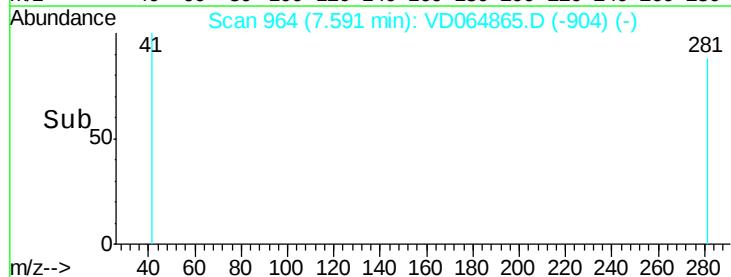
200

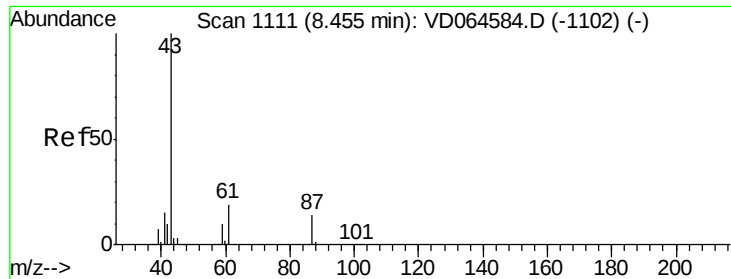
100

0

7.57 7.58 7.59 7.60 7.61

Time-->





#43

Isopropyl Acetate

Concen: 18.690 ug/l

RT: 8.40 min Scan# 1102

Delta R.T. -0.05 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

EP-3

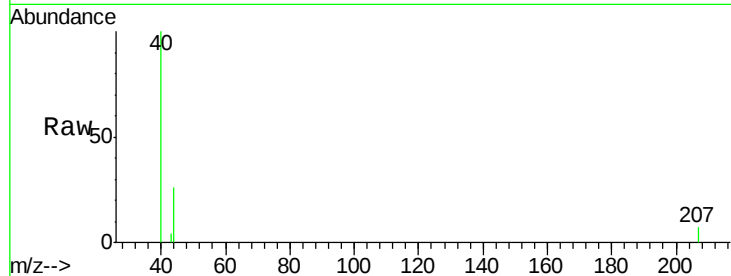
Tot Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

61 0.0 23.7 35.5#

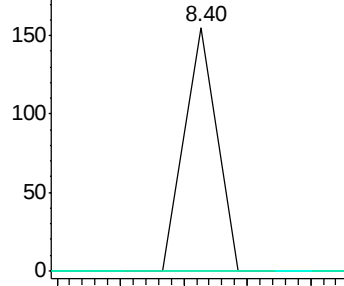
87 0.0 10.5 15.7#



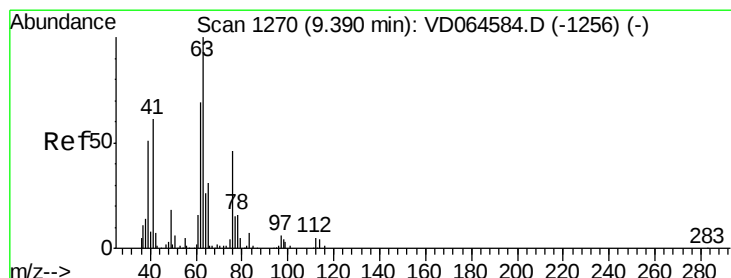
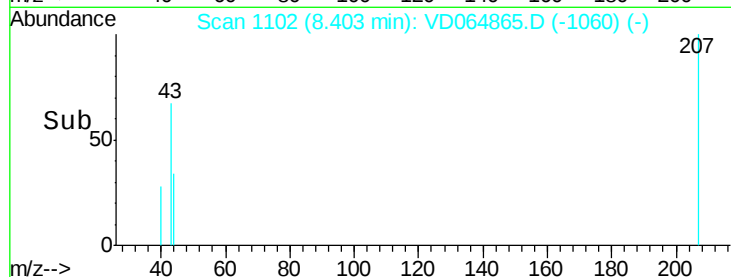
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



Time--> 8.38 8.39 8.40 8.41 8.42



#45

1,2-Dichloropropane

Concen: 25.276 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.09 min

Lab File: VD064865.D

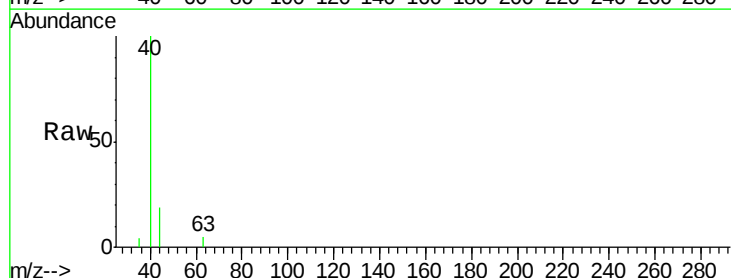
Acq: 17 Jan 2020 16:12

Tgt Ion: 63 Resp: 62

Ion Ratio Lower Upper

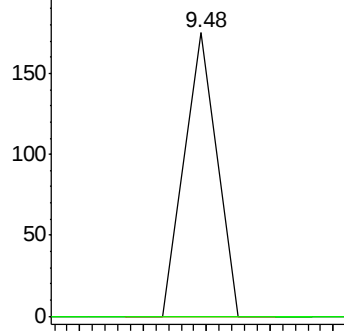
63 100

65 0.0 25.2 37.8#

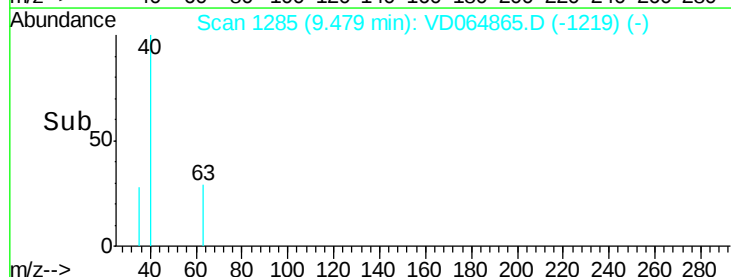


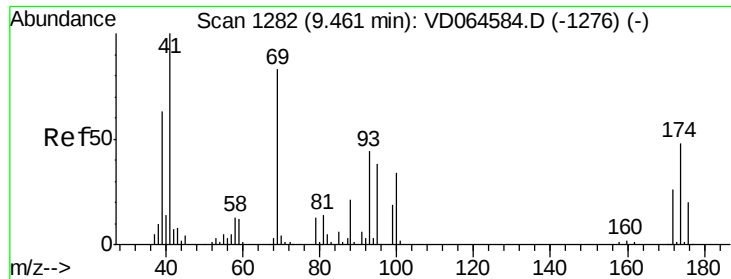
Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



Time--> 9.46 9.47 9.48 9.49





#48

Methvl methacrylate

Concen: 51.242 ug/l

RT: 9.37 min Scan# 1266

Delta R.T. -0.09 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

EP-3

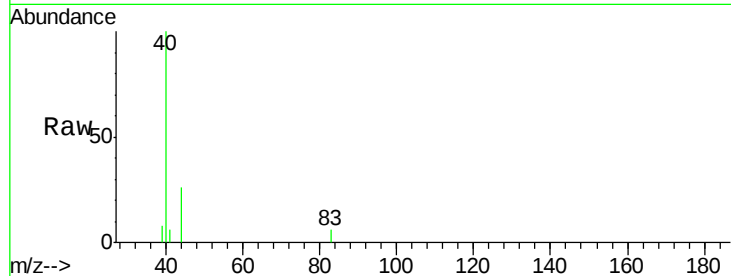
Tot Ion: 41 Resp: 71

Ion Ratio Lower Upper

41 100

69 0.0 63.0 94.6#

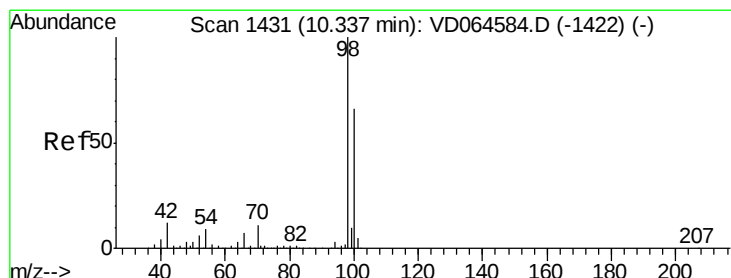
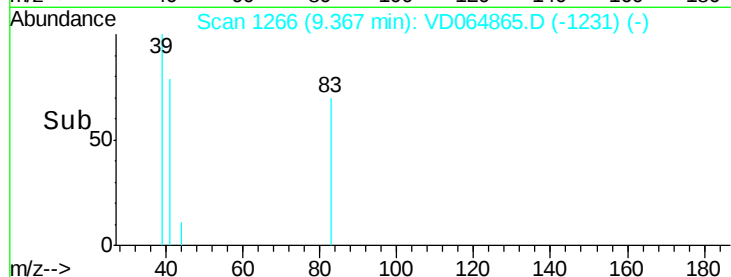
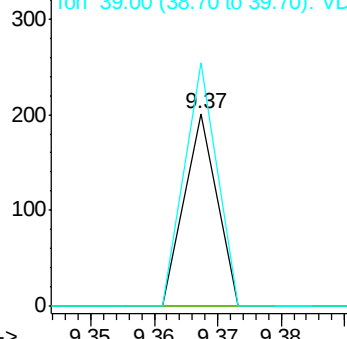
39 126.8 47.4 71.2#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#50

Toluene-d8

Concen: 53.552 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD064865.D

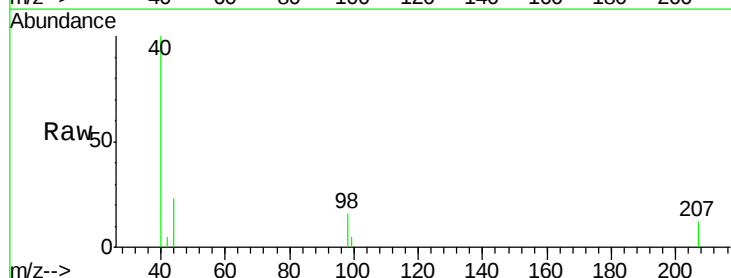
Acq: 17 Jan 2020 16:12

Tgt Ion: 98 Resp: 492

Ion Ratio Lower Upper

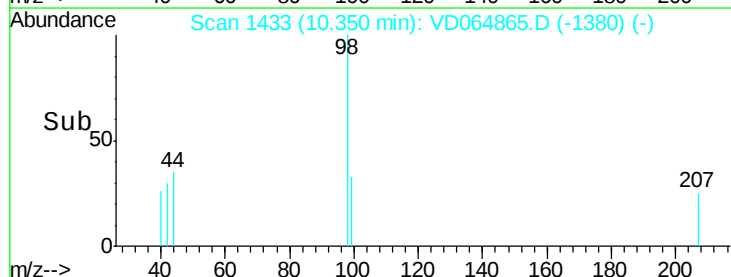
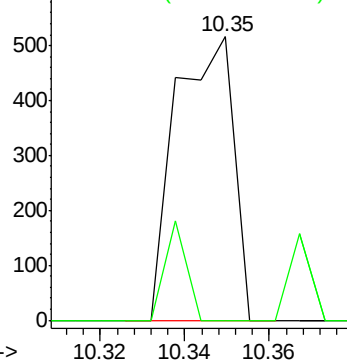
98 100

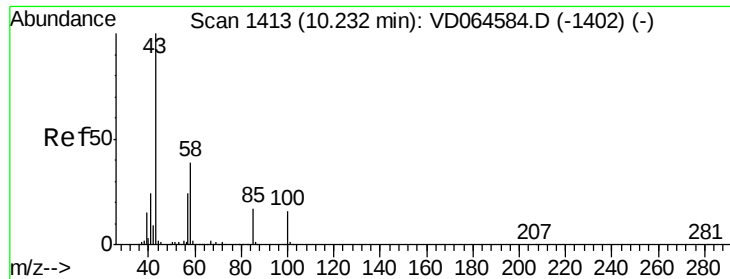
100 12.8 51.7 77.5#



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 37.126 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

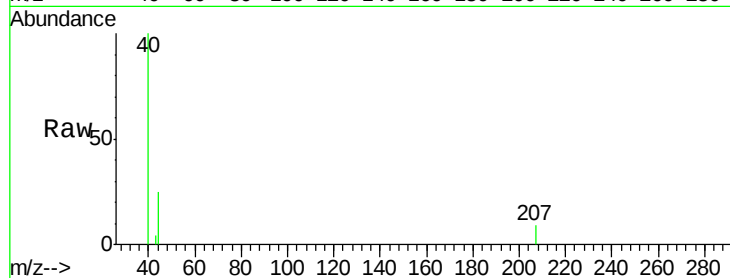
EP-3

Tot Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.23

150

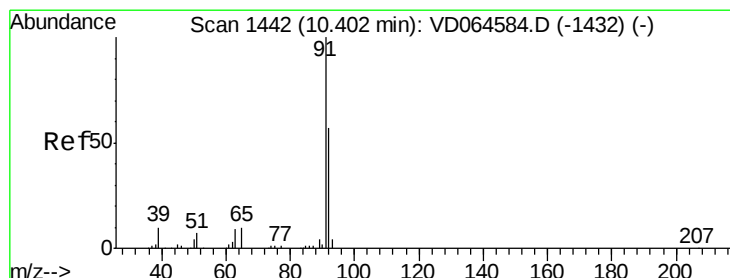
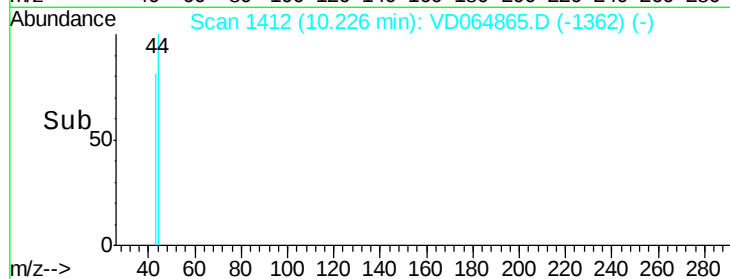
100

50

0

10.22 10.24

Time-->



#52

Toluene

Concen: 10.237 ug/l

RT: 10.42 min Scan# 1445

Delta R.T. 0.02 min

Lab File: VD064865.D

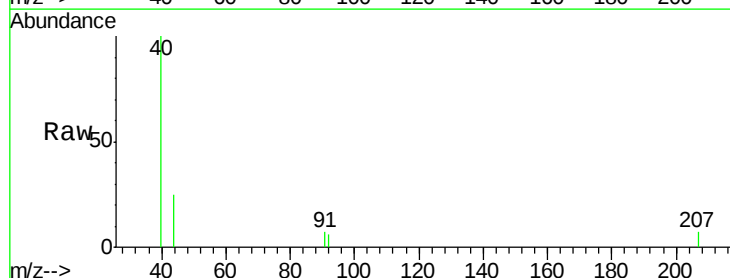
Acq: 17 Jan 2020 16:12

Tgt Ion: 92 Resp: 69

Ion Ratio Lower Upper

92 100

91 579.7 138.7 208.1#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

400

300

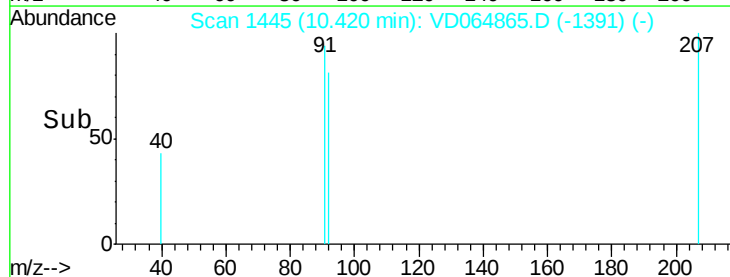
200

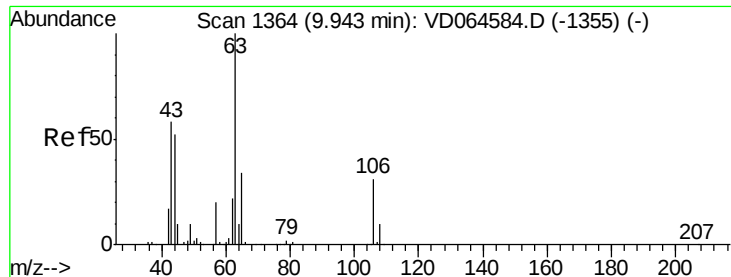
100

0

10.40 10.42

Time-->

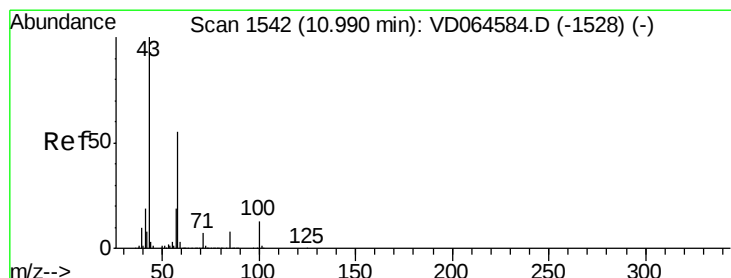
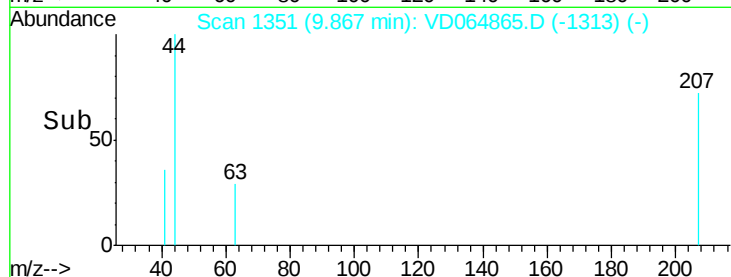
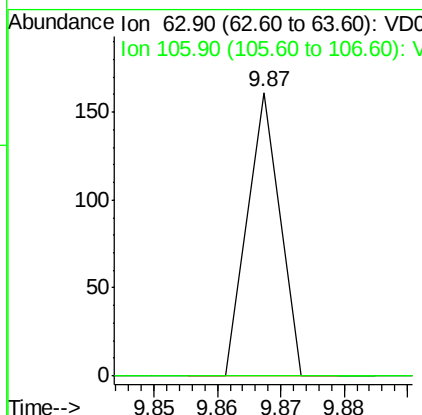
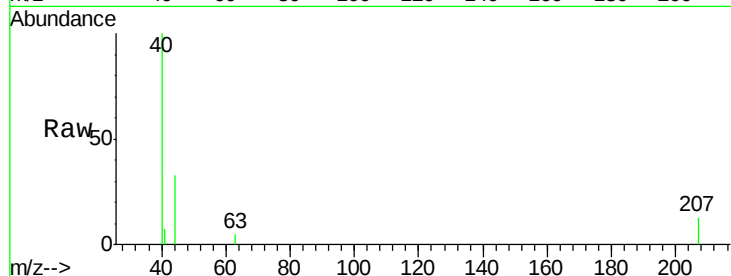




#58
 2-Chloroethyl Vinyl ether
 Concen: 64.998 ug/l
 RT: 9.87 min Scan# 1351
 Delta R.T. -0.08 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

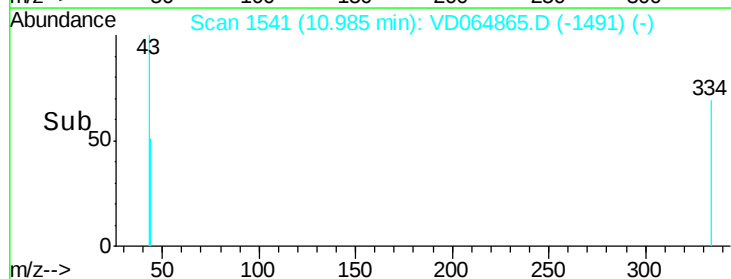
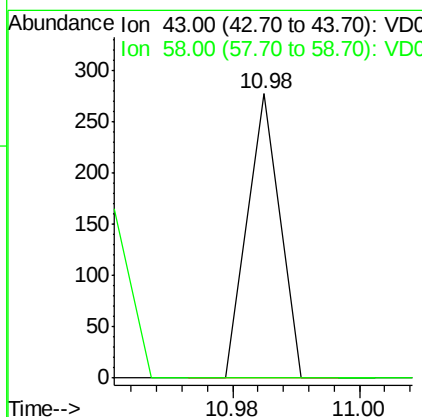
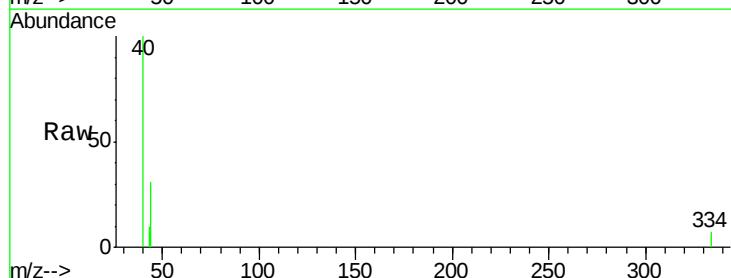
Instrument :
 MSVOA_D
 ClientSampleId :
 EP-3

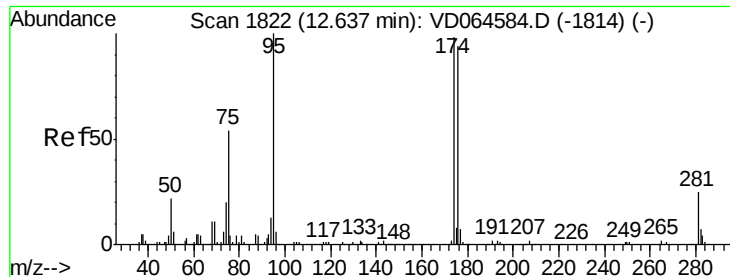
Tot Ion: 63 Resp: 57
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.8 35.8#



#59
 2-Hexanone
 Concen: 99.269 ug/l
 RT: 10.98 min Scan# 1541
 Delta R.T. -0.01 min
 Lab File: VD064865.D
 Acq: 17 Jan 2020 16:12

Tgt Ion: 43 Resp: 98
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.4 79.0#

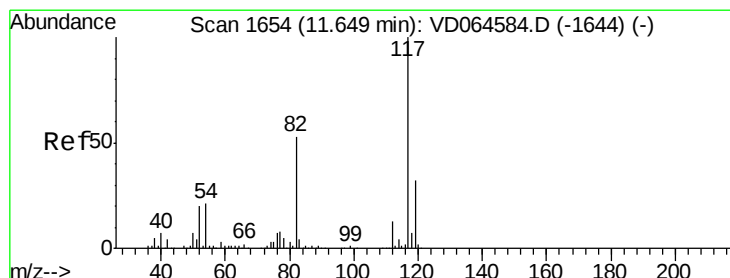
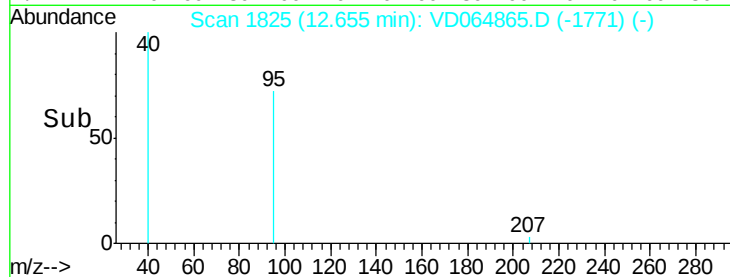
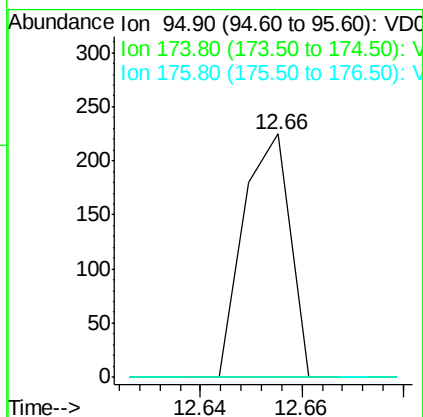
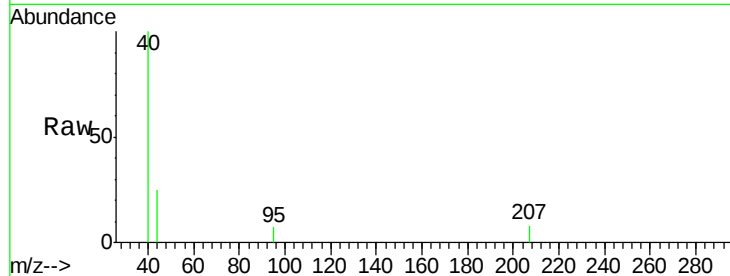




#62
4-Bromofluorobenzene
Concen: 49.223 ug/l
RT: 12.66 min Scan# 1825
Delta R.T. 0.02 min
Lab File: VD064865.D
Acq: 17 Jan 2020 16:12

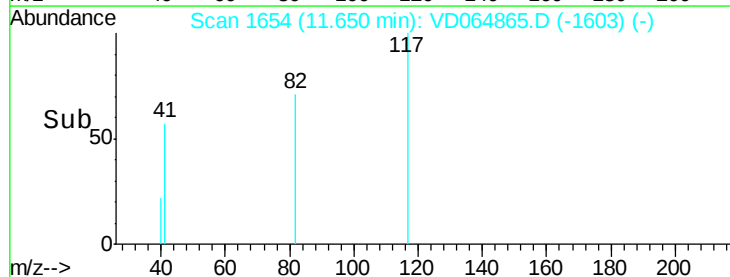
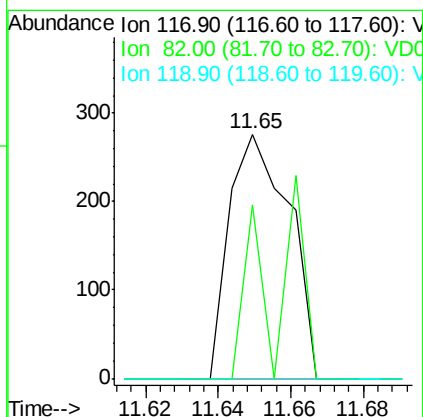
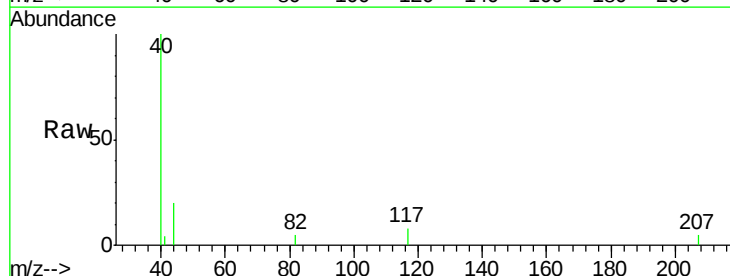
Instrument :
MSVOA_D
ClientSampleId :
EP-3

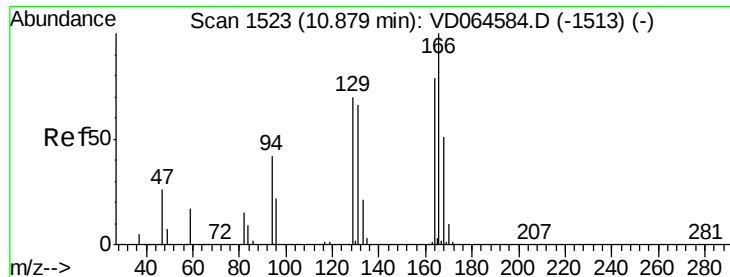
Tot Ion: 95 Resp: 143
Ion Ratio Lower Upper
95 100
174 0.0 0.0 193.2
176 0.0 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064865.D
Acq: 17 Jan 2020 16:12

Tgt Ion: 117 Resp: 316
Ion Ratio Lower Upper
117 100
82 71.0 42.2 63.4#
119 0.0 26.0 39.0#





#64

Tetrachloroethene

Concen: 22.687 ug/l

RT: 10.88 min Scan# 1523

Delta R.T. 0.00 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

EP-3

Tot Ion:164 Resp: 55

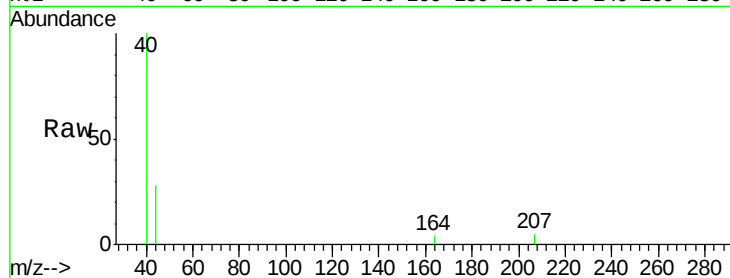
Ion Ratio Lower Upper

164 100

166 0.0 101.3 151.9#

129 0.0 70.5 105.7#

131 0.0 66.6 99.8#



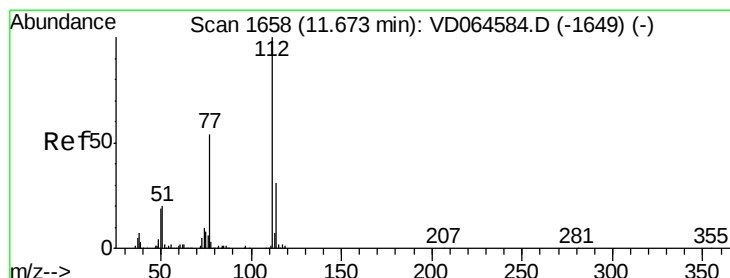
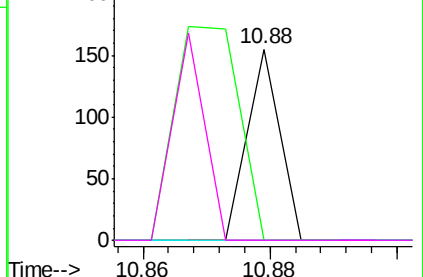
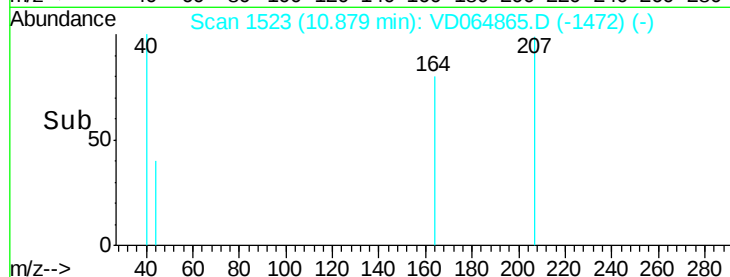
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time-->



#65

Chlorobenzene

Concen: 9.453 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VD064865.D

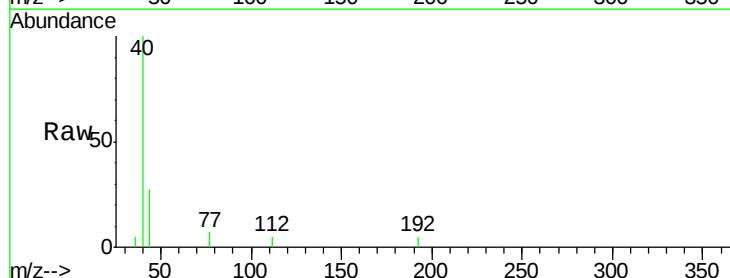
Acq: 17 Jan 2020 16:12

Tgt Ion:112 Resp: 62

Ion Ratio Lower Upper

112 100

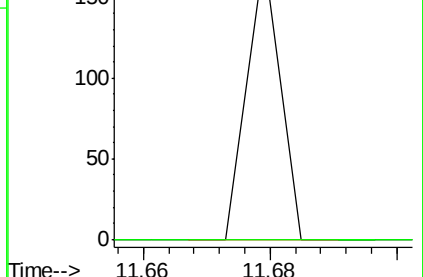
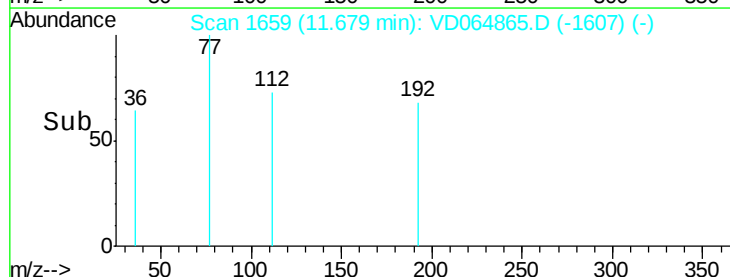
114 0.0 24.8 37.2#

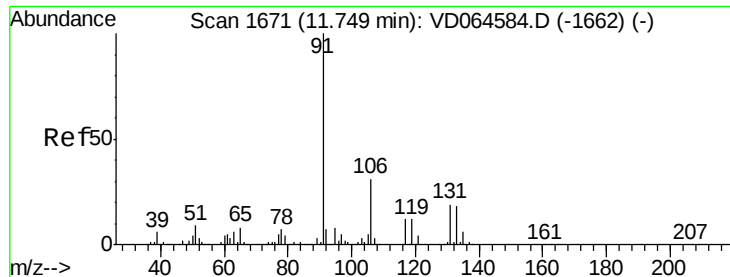


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

Time-->





#67

Ethyl Benzene

Concen: 14.617 ug/l

RT: 11.76 min Scan# 1672

Delta R.T. 0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleID :

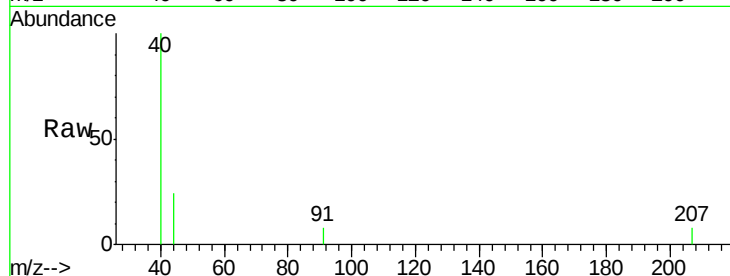
EP-3

Tot Ion: 91 Resp: 174

Ion Ratio Lower Upper

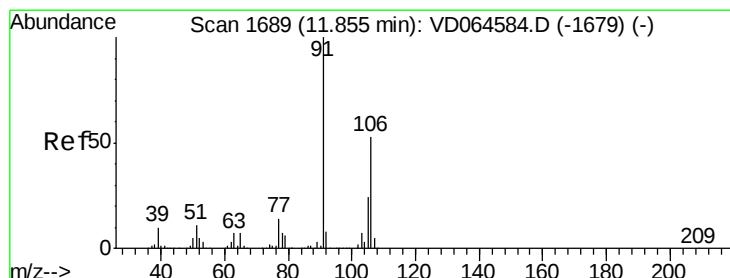
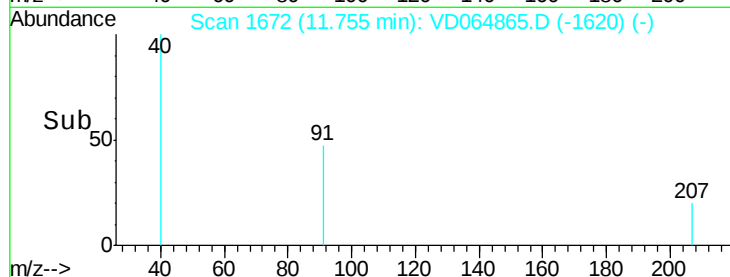
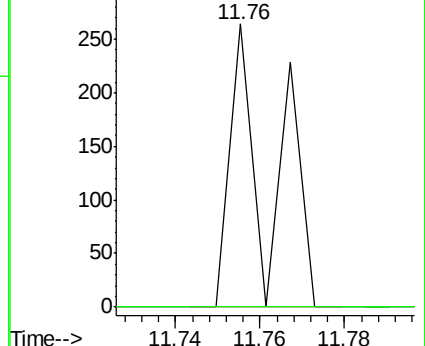
91 100

106 0.0 24.6 36.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): VDC



#68

m/p-Xylenes

Concen: 31.123 ug/l

RT: 11.87 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VD064865.D

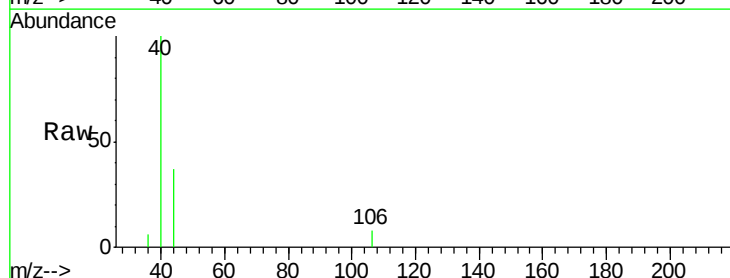
Acq: 17 Jan 2020 16:12

Tgt Ion: 106 Resp: 143

Ion Ratio Lower Upper

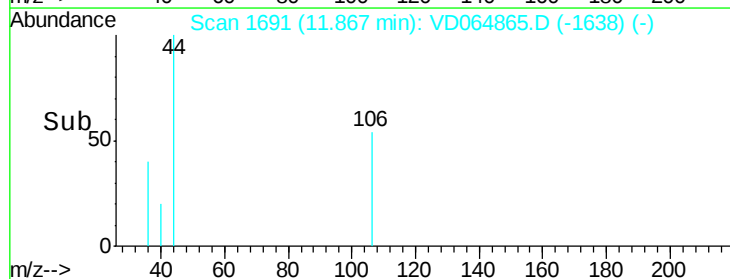
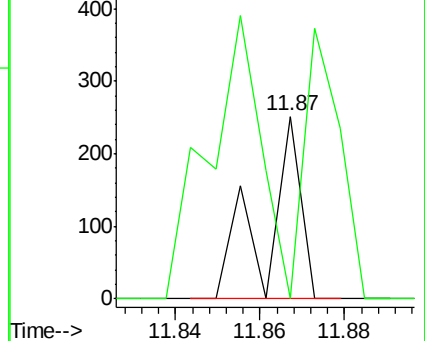
106 100

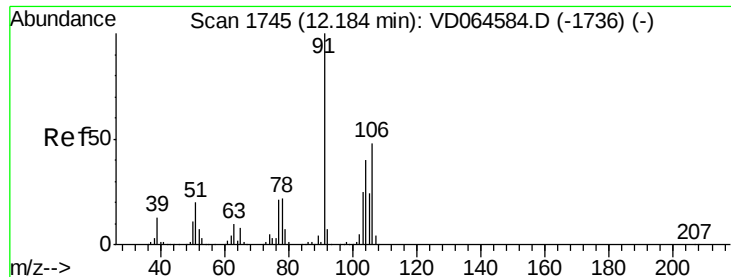
91 149.7 156.3 234.5#



Abundance Ion 106.00 (105.70 to 106.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

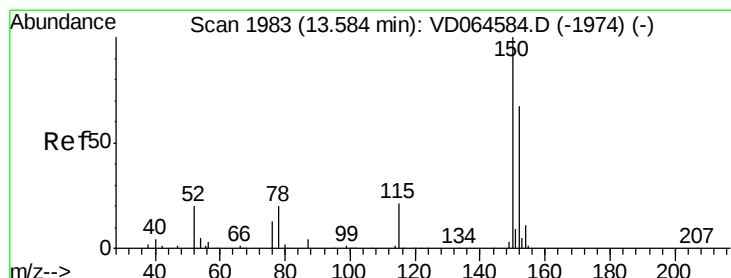
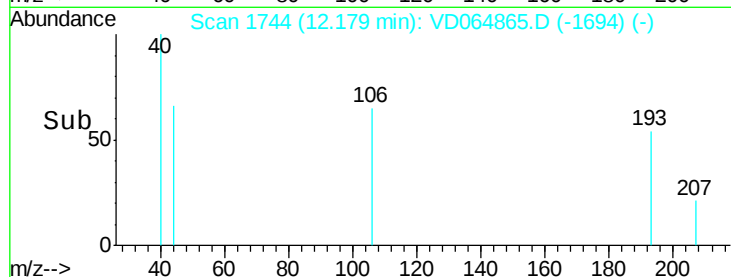
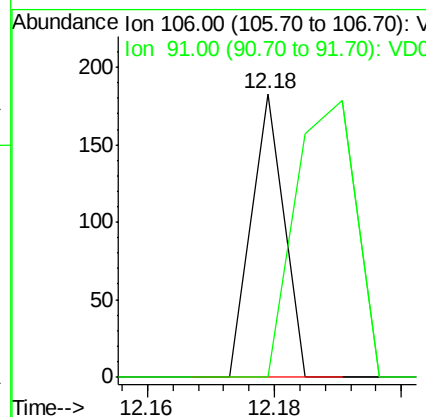
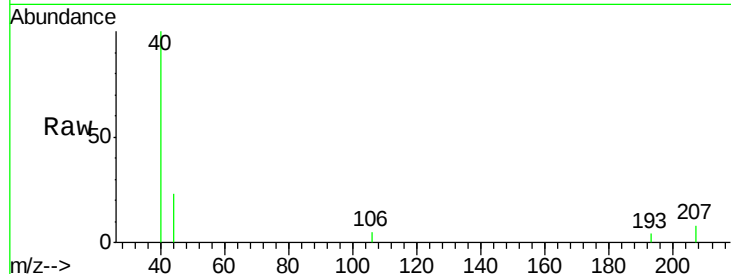




#69
o-Xylene
Concen: 15.662 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VD064865.D
Acq: 17 Jan 2020 16:12

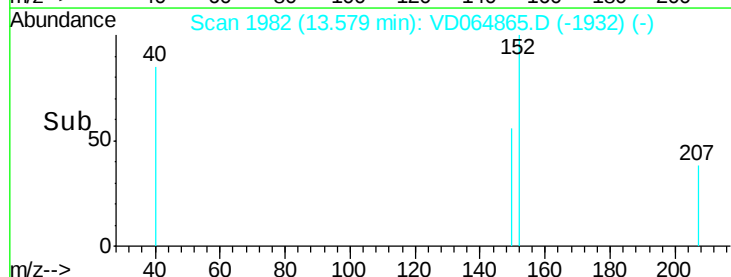
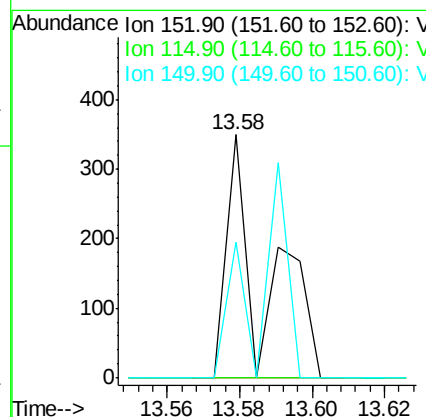
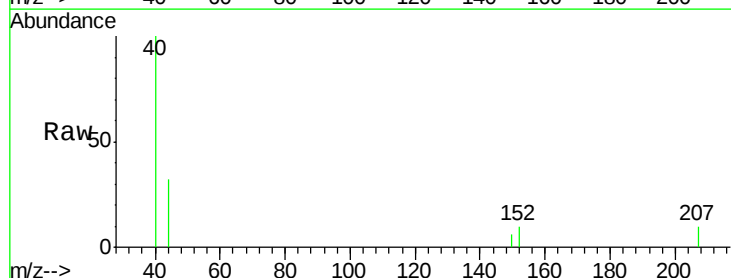
Instrument :
MSVOA_D
ClientSampled :
EP-3

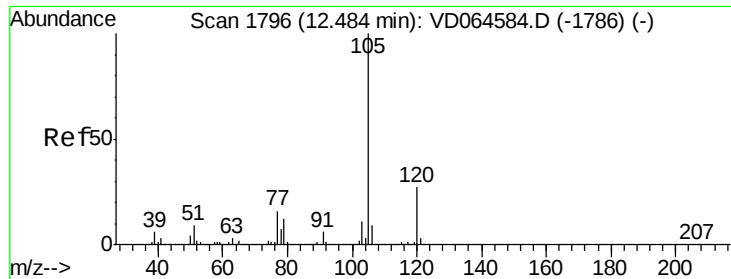
Tot Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 183.1 104.8 314.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064865.D
Acq: 17 Jan 2020 16:12

Tgt Ion:152 Resp: 249
Ion Ratio Lower Upper
152 100
115 0.0 27.8 83.4#
150 71.9 0.0 351.4





#73

Isopropylbenzene

Concen: 18.995 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

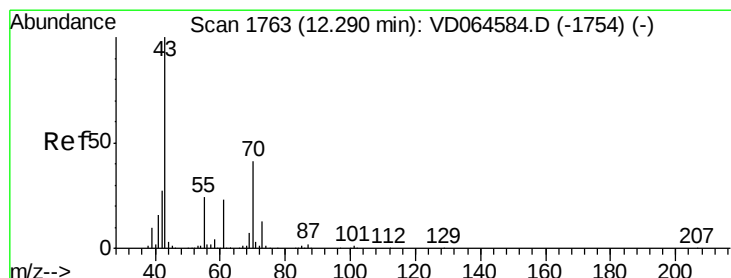
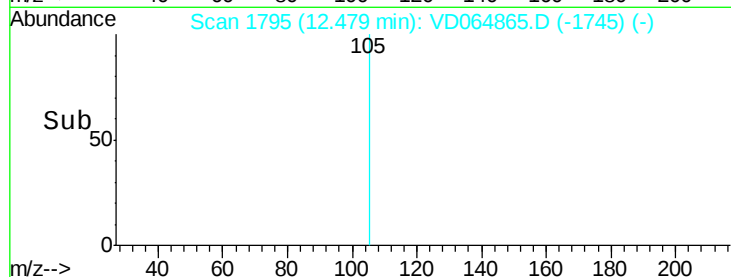
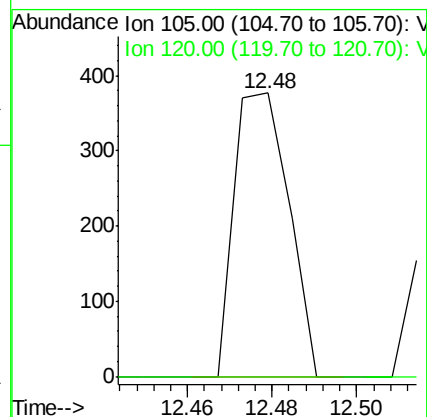
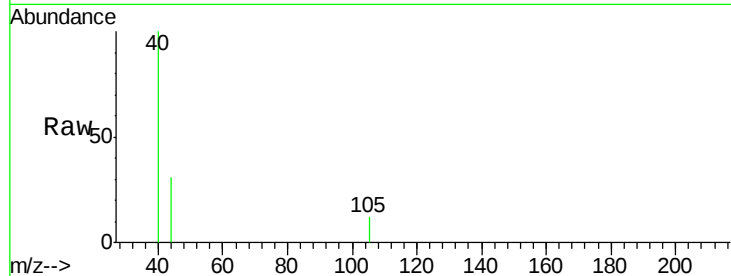
EP-3

Tot Ion:105 Resp: 338

Ion Ratio Lower Upper

105 100

120 0.0 13.5 40.5#



#74

N-ethyl acetate

Concen: 18.666 ug/l

RT: 12.41 min Scan# 1783

Delta R.T. 0.12 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Tgt Ion: 43 Resp: 71

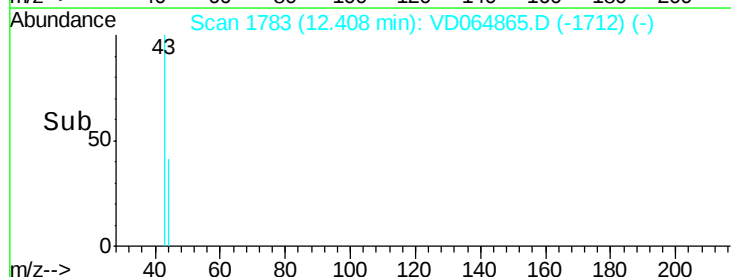
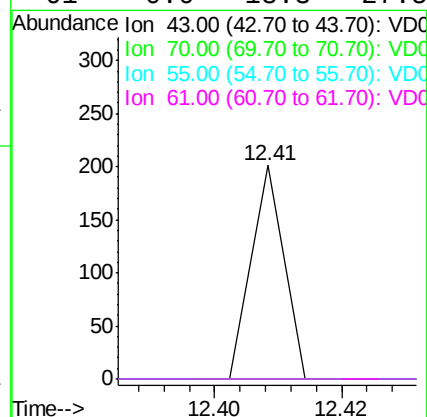
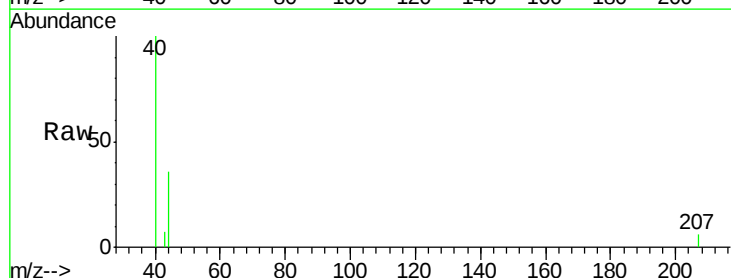
Ion Ratio Lower Upper

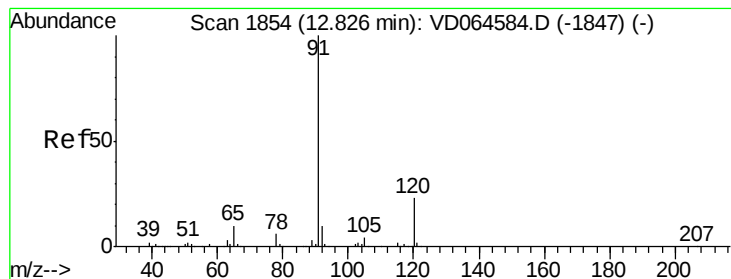
43 100

70 0.0 33.4 50.0#

55 0.0 19.4 29.0#

61 0.0 18.3 27.5#





#78

n-propylbenzene

Concen: 28.036 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

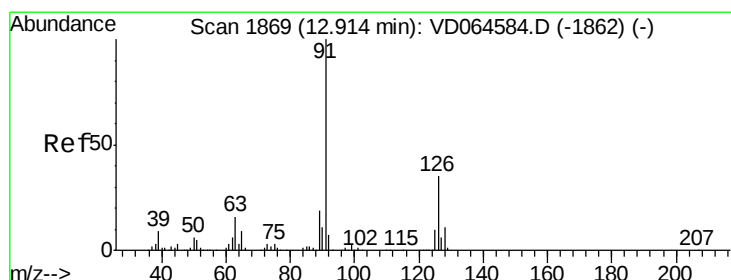
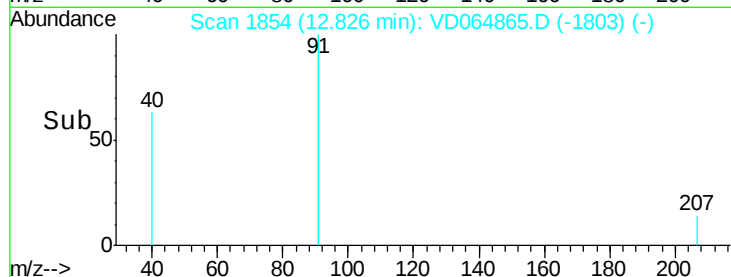
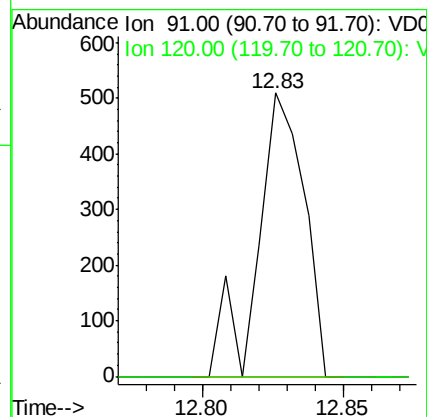
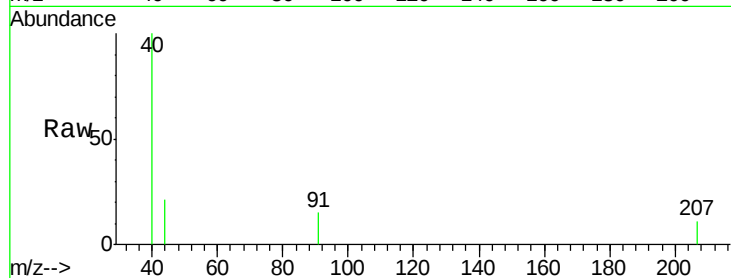
EP-3

Tot Ion: 91 Resp: 582

Ion Ratio Lower Upper

91 100

120 0.0 11.9 35.9#



#79

2-Chlorotoluene

Concen: 11.575 ug/l

RT: 12.92 min Scan# 1870

Delta R.T. 0.01 min

Lab File: VD064865.D

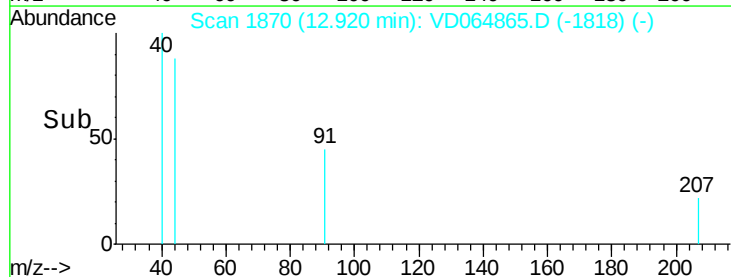
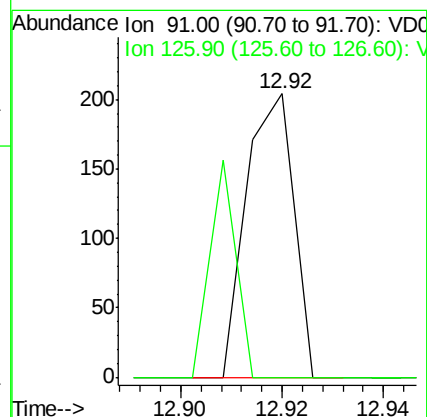
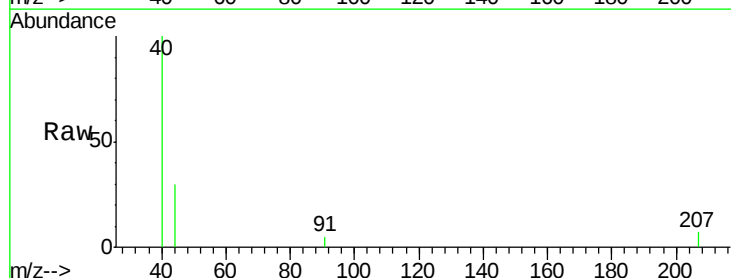
Acq: 17 Jan 2020 16:12

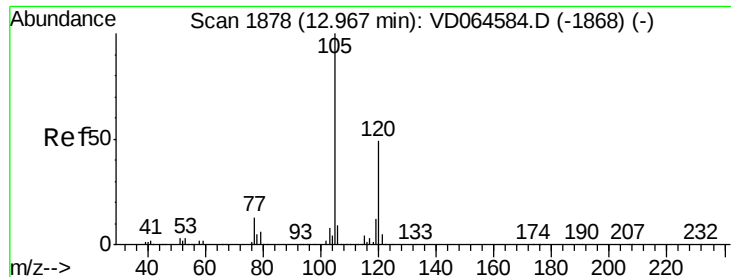
Tgt Ion: 91 Resp: 132

Ion Ratio Lower Upper

91 100

126 41.7 17.8 53.5





#80

1,3,5-Trimethylbenzene

Concen: 19.703 ug/l

RT: 12.98 min Scan# 1881

Delta R.T. 0.02 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

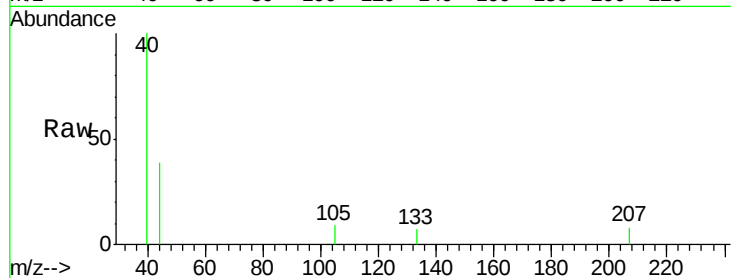
EP-3

Tot Ion:105 Resp: 288

Ion Ratio Lower Upper

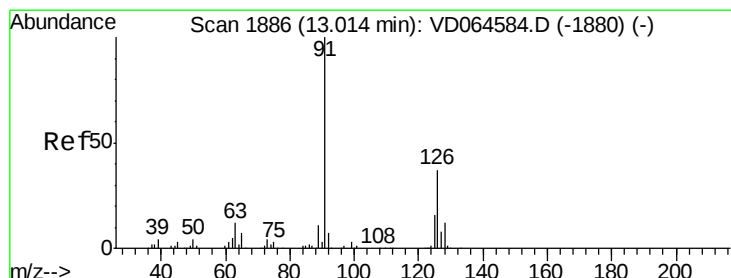
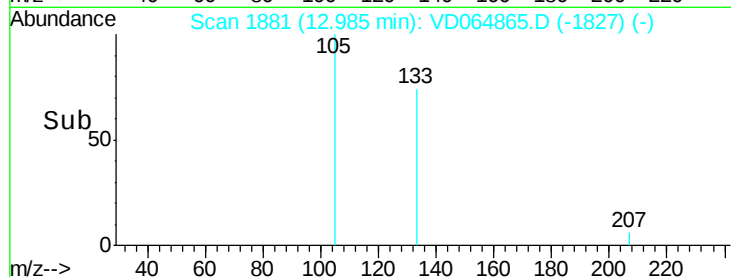
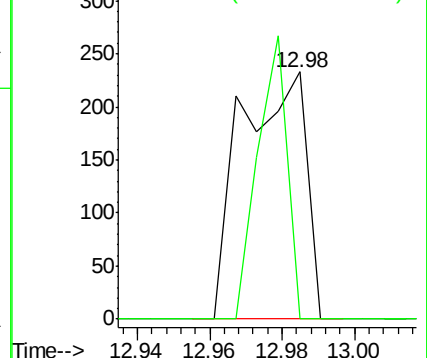
105 100

120 51.4 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 10.877 ug/l

RT: 12.92 min Scan# 1870

Delta R.T. -0.09 min

Lab File: VD064865.D

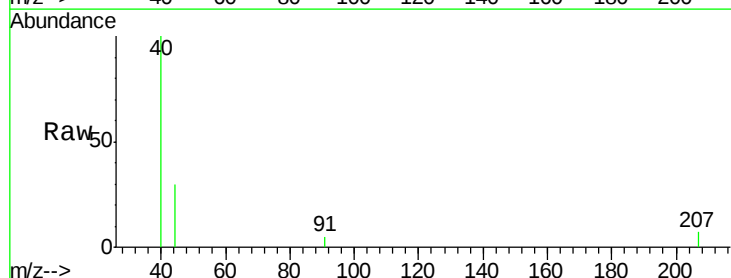
Acq: 17 Jan 2020 16:12

Tgt Ion: 91 Resp: 132

Ion Ratio Lower Upper

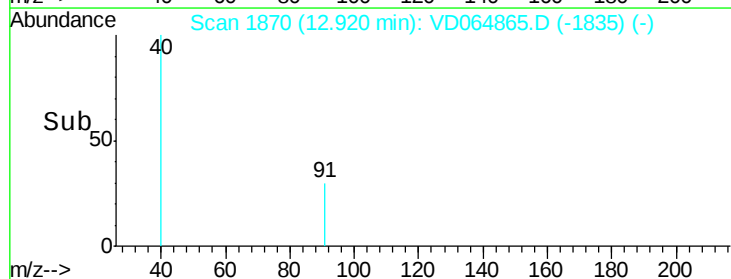
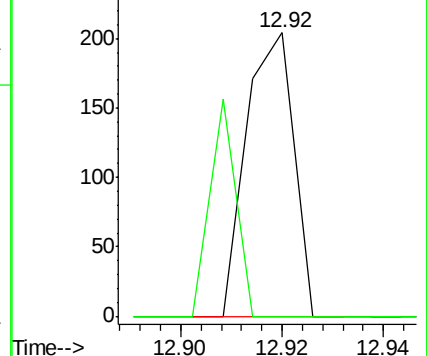
91 100

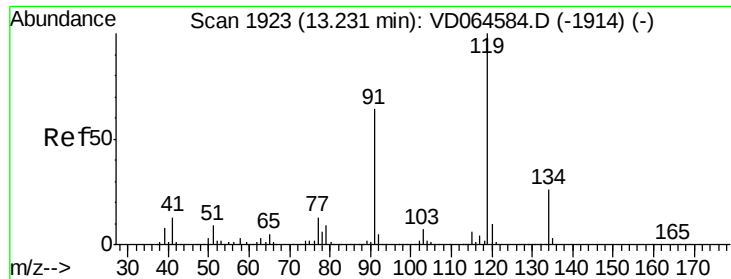
126 41.7 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 11.031 ug/l

RT: 13.23 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

EP-3

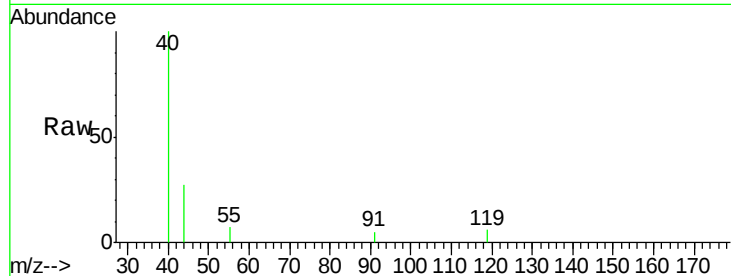
Tot Ion:119 Resp: 140

Ion Ratio Lower Upper

119 100

91 109.3 30.8 92.4#

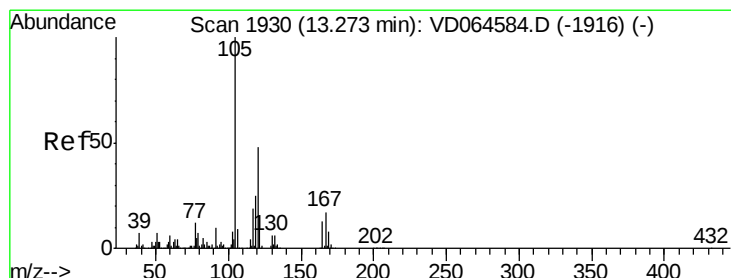
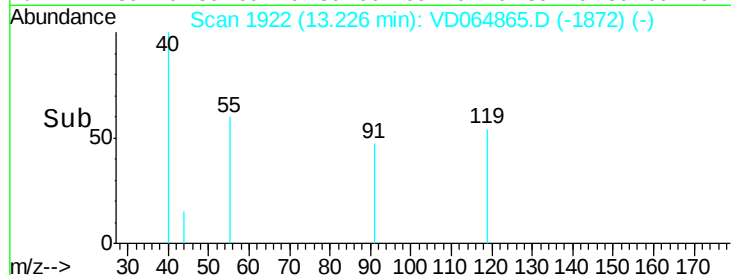
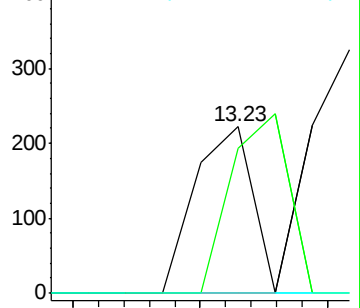
134 0.0 12.8 38.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 9.205 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.01 min

Lab File: VD064865.D

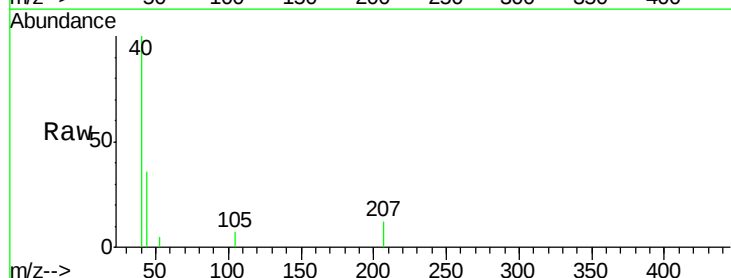
Acq: 17 Jan 2020 16:12

Tgt Ion:105 Resp: 134

Ion Ratio Lower Upper

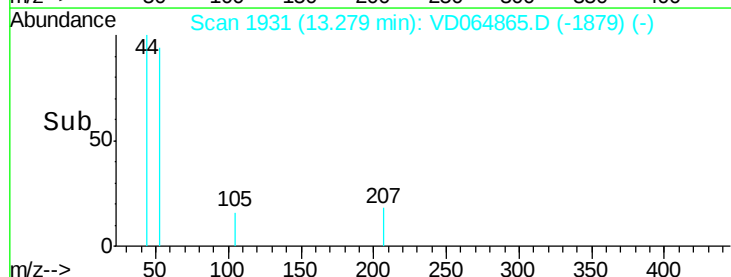
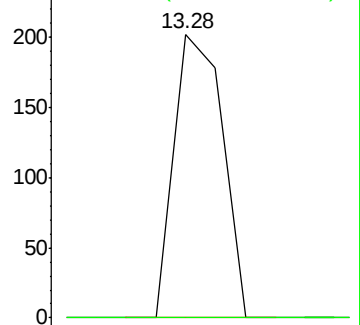
105 100

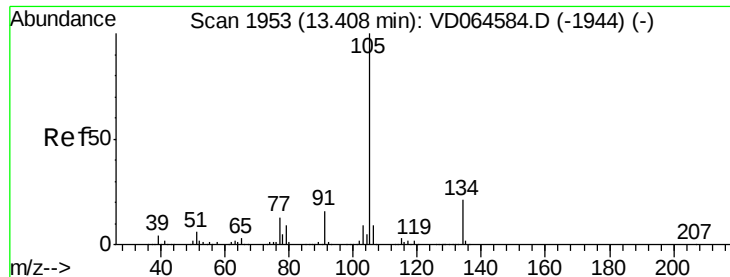
120 0.0 23.8 71.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 25.461 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

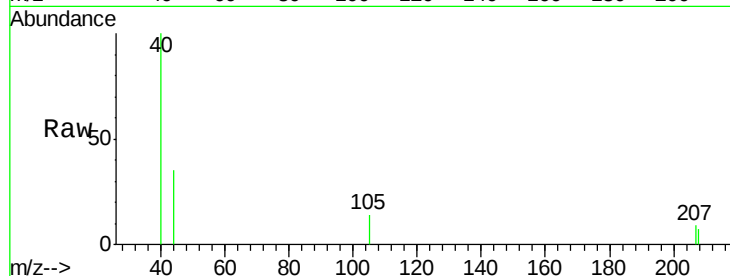
EP-3

Tot Ion:105 Resp: 443

Ion Ratio Lower Upper

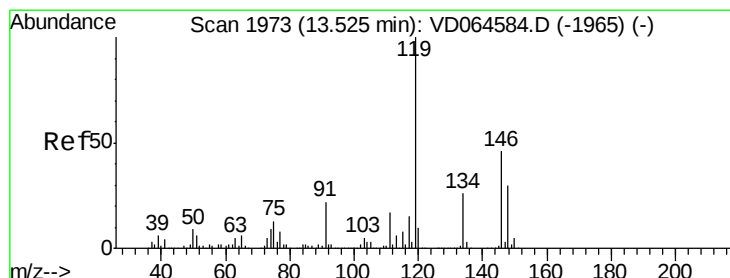
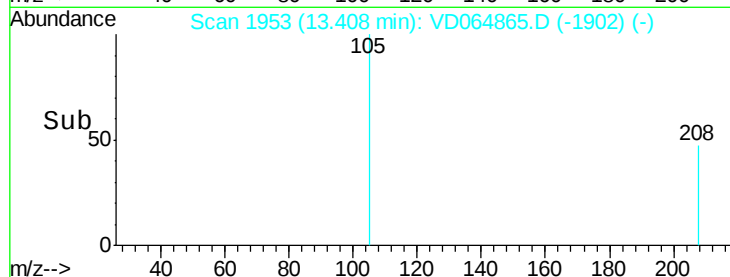
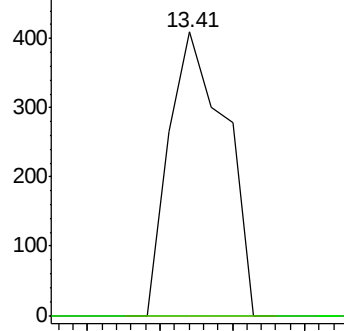
105 100

134 0.0 10.6 31.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.268 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

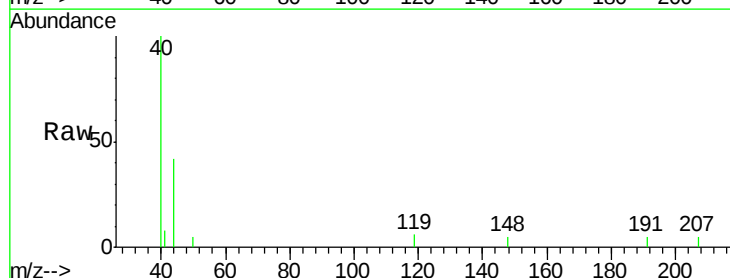
Tgt Ion:119 Resp: 71

Ion Ratio Lower Upper

119 100

134 0.0 13.4 40.1#

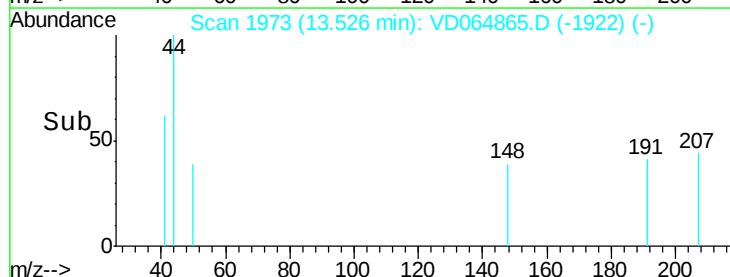
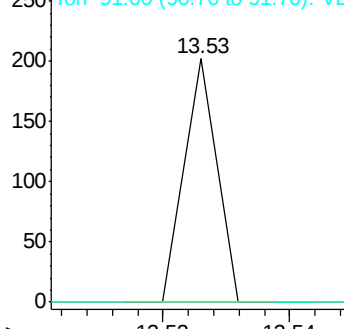
91 0.0 11.2 33.6#

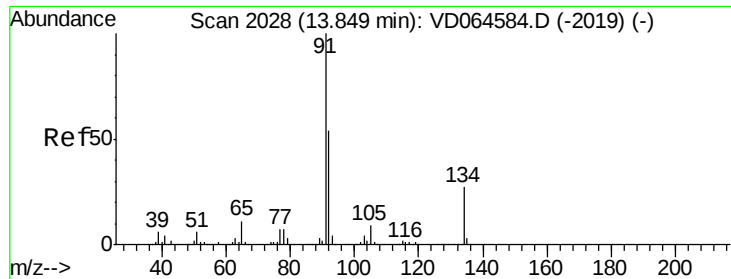


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 13.016 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

EP-3

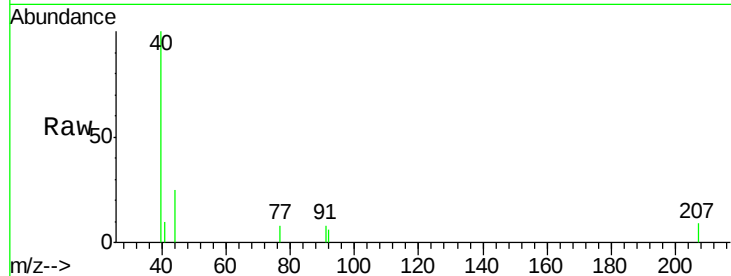
Tot Ion: 91 Resp: 195

Ion Ratio Lower Upper

91 100

92 71.3 26.8 80.4

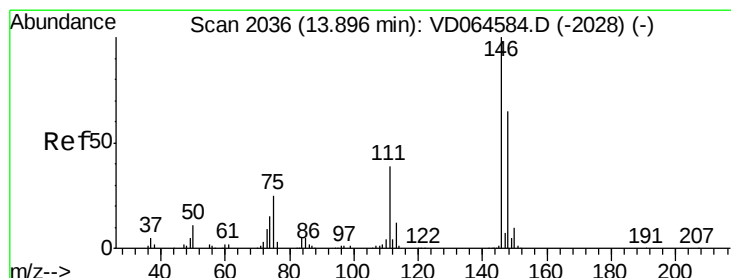
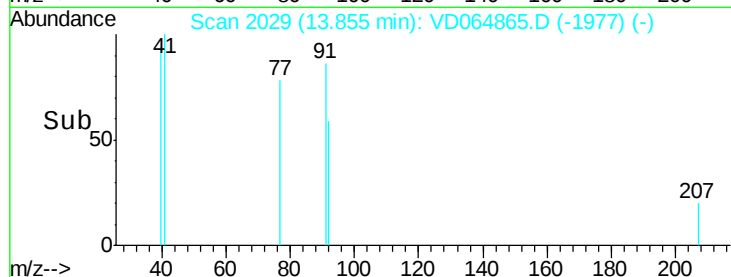
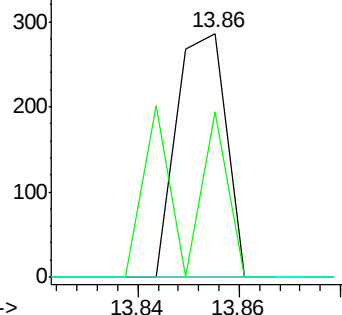
134 0.0 14.0 41.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#91

1,2-Dichlorobenzene

Concen: 18.432 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

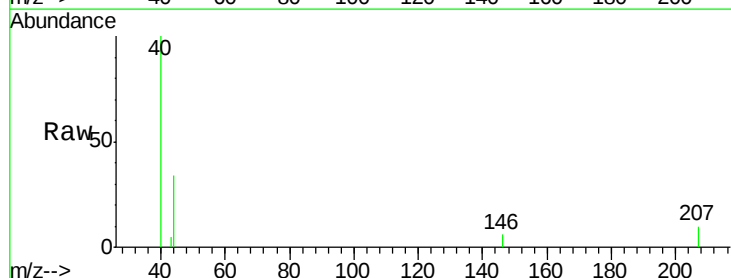
Tgt Ion: 146 Resp: 131

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

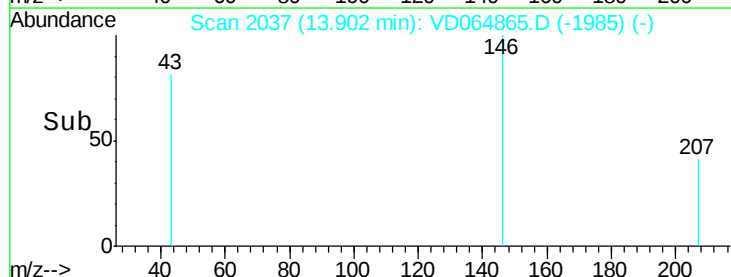
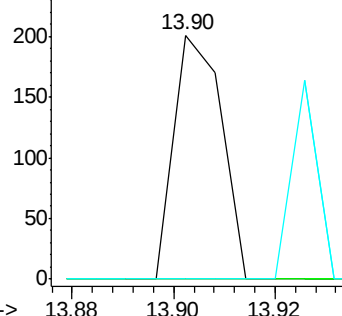
148 0.0 31.9 95.5#

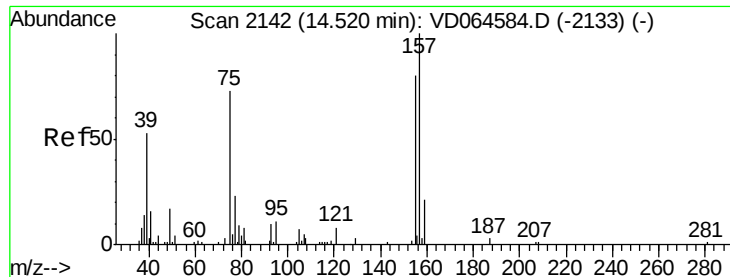


Abundance Ion 145.90 (145.60 to 146.60): VDC

Ion 110.90 (110.60 to 111.60): VDC

Ion 147.90 (147.60 to 148.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: 130.201 ug/l

RT: 14.66 min Scan# 2165

Delta R.T. 0.14 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

EP-3

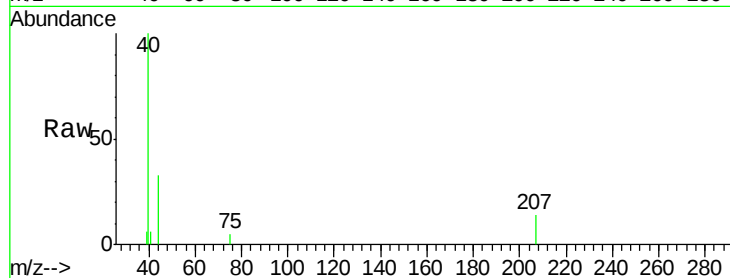
Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

157 0.0 64.1 192.3#



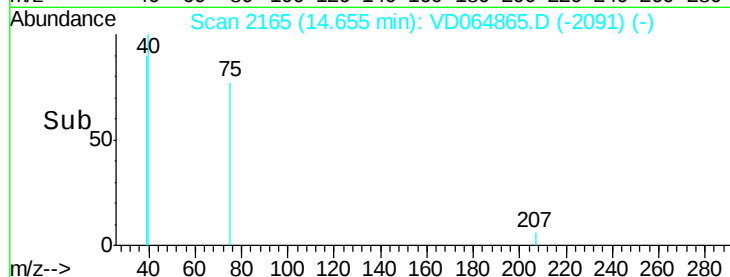
Abundance Ion 74.90 (74.60 to 75.60): VD

Ion 154.80 (154.50 to 155.50): V

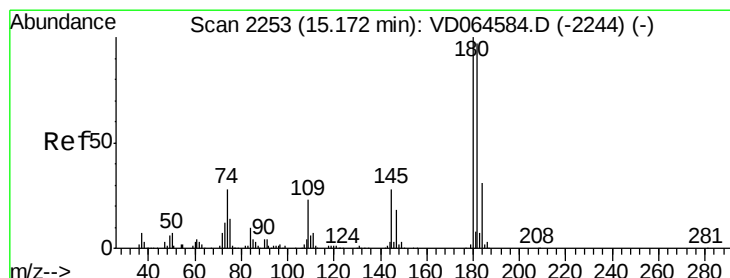
Ion 156.80 (156.50 to 157.50): V

14.66

14.64 14.66



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 12.039 ug/l

RT: 15.17 min Scan# 2252

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

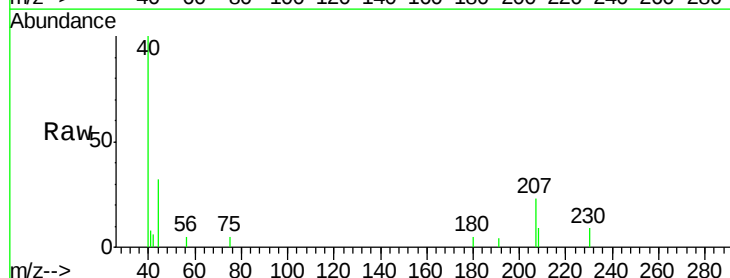
Tgt Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 48.0 144.2#

145 0.0 13.8 41.4#



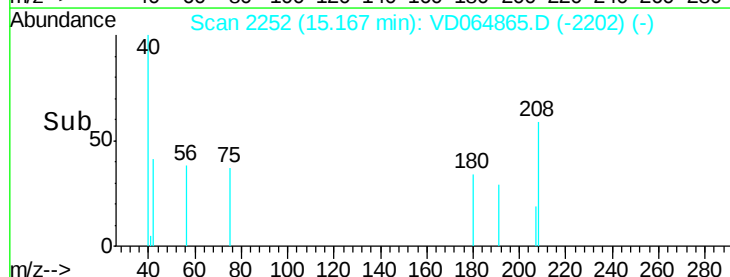
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

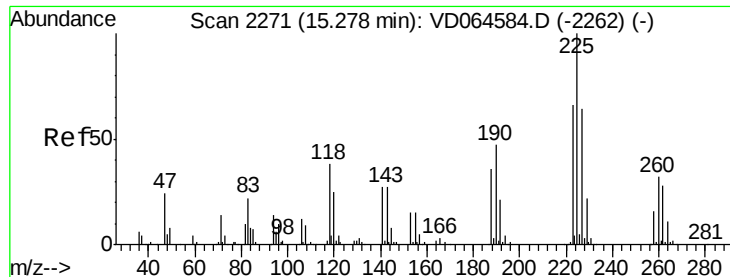
Ion 144.80 (144.50 to 145.50): V

15.17

15.16 15.18



Time-->



#94

Hexachlorobutadiene

Concen: 18.220 ug/l

RT: 15.29 min Scan# 2273

Delta R.T. 0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

EP-3

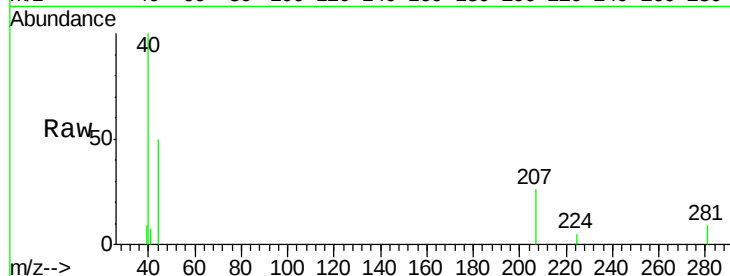
Tot Ion:225 Resp: 60

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.2#

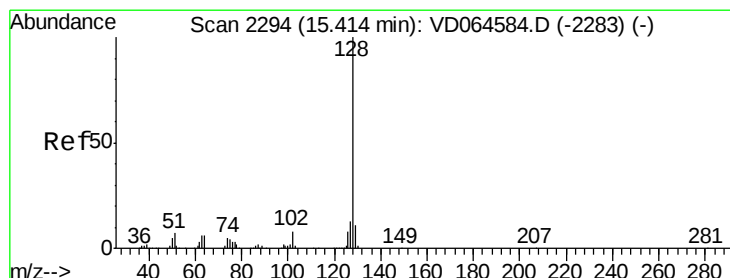
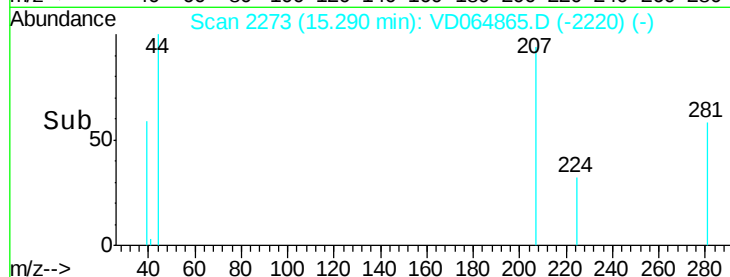
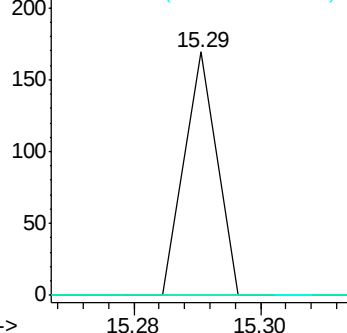
227 0.0 30.9 92.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 14.736 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064865.D

Acq: 17 Jan 2020 16:12

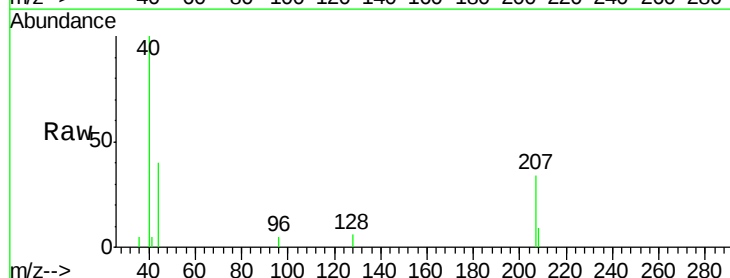
Tgt Ion:128 Resp: 122

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

