

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092820\
 Data File : VD066914.D
 Acq On : 28 Sep 2020 15:37
 Operator : VA/SY
 Sample : L4173-01
 Misc : 3.65G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-1-(3FT)

Quant Time: Sep 29 00:57:34 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	10260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	16186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	17357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	9383	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	8543	85.07	ug/l	0.00
Spiked Amount			Recovery	=	170.14%	
35) Dibromofluoromethane	7.91	113	3171	30.79	ug/l	0.00
Spiked Amount			Recovery	=	61.58%	
50) Toluene-d8	10.34	98	19242	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	
62) 4-Bromofluorobenzene	12.63	95	8453	70.38	ug/l	0.00
Spiked Amount			Recovery	=	140.76%	

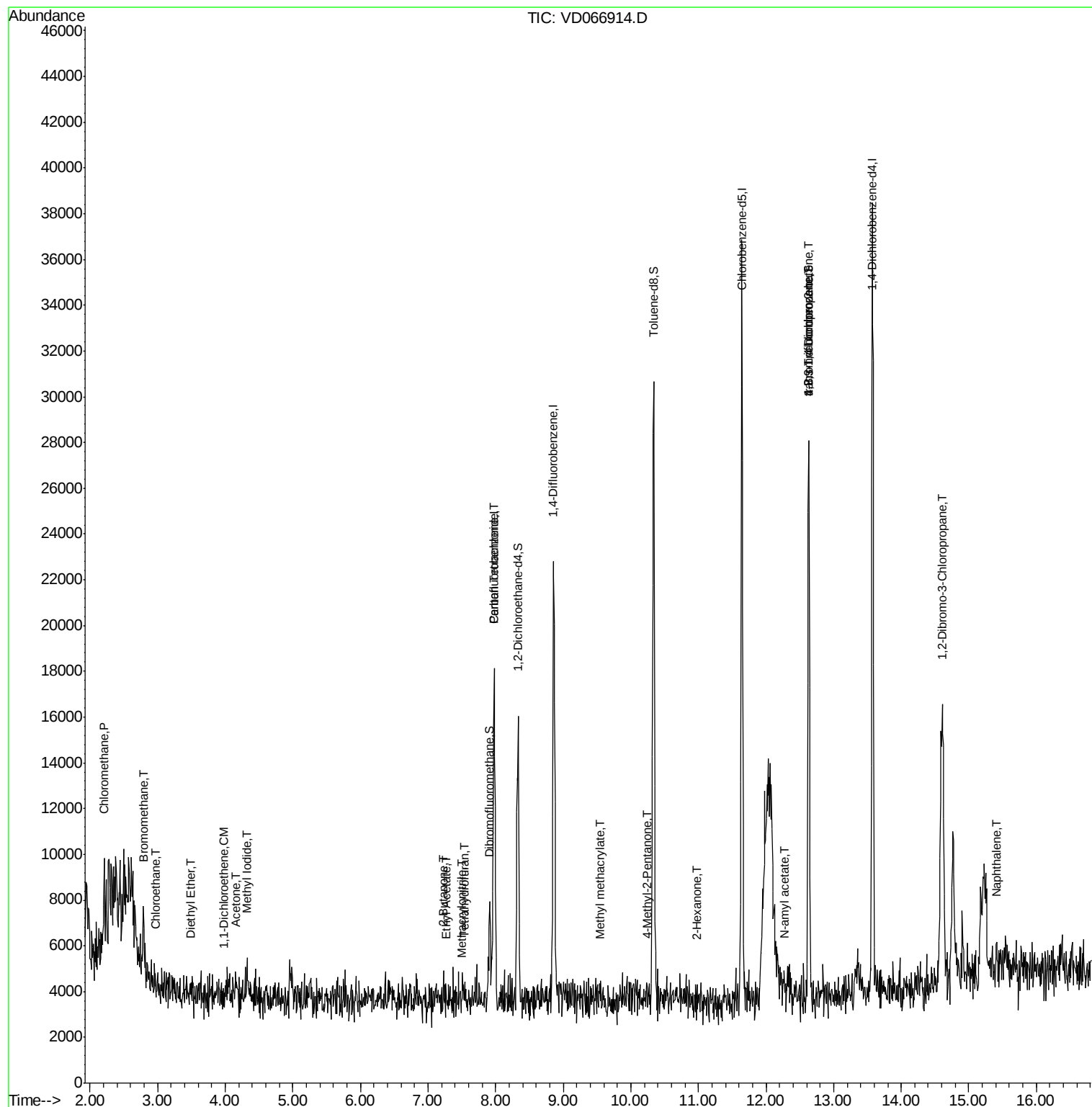
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	330	3.501	ug/l #	43
5) Bromomethane	2.79	94	1779	27.177	ug/l	93
6) Chloroethane	2.96	64	75	1.297	ug/l #	46
8) Diethyl Ether	3.49	74	65	1.339	ug/l #	4
10) Methyl Iodide	4.32	142	1923	19.649	ug/l #	72
12) 1,1-Dichloroethene	3.99	96	110	1.095	ug/l #	1
16) Acetone	4.15	43	624	29.292	ug/l	93
18) Methyl Acetate	4.90	43	63	Below Cal	#	50
25) 2-Butanone	7.22	43	198	7.734	ug/l #	46
29) Tetrahydrofuran	7.54	42	70	4.267	ug/l #	33
37) Ethyl Acetate	7.26	43	86	1.481	ug/l #	70
38) Carbon Tetrachloride	7.97	117	1001	5.702	ug/l #	12
41) Methacrylonitrile	7.49	41	76	2.129	ug/l #	100
48) Methyl methacrylate	9.54	41	58	1.051	ug/l #	10
51) 4-Methyl-2-Pentanone	10.24	43	67	1.181	ug/l #	35
59) 2-Hexanone	10.98	43	91	2.379	ug/l #	25
74) N-amyl acetate	12.28	43	173	1.307	ug/l #	46
76) 1,2,3-Trichloropropane	12.63	75	4031	51.840	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	4031	129.698	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.61	75	128	6.803	ug/l #	3
95) Naphthalene	15.41	128	346	1.208	ug/l #	69

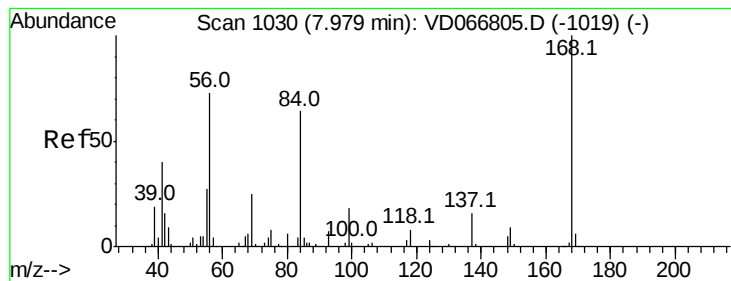
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092820\
Data File : VD066914.D
Acq On : 28 Sep 2020 15:37
Operator : VA/SY
Sample : L4173-01
Misc : 3.65G/5.00ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
TP-1-(3FT)

Quant Time: Sep 29 00:57:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
Quant Title : SW846 8260
QLast Update : Wed Sep 23 01:34:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

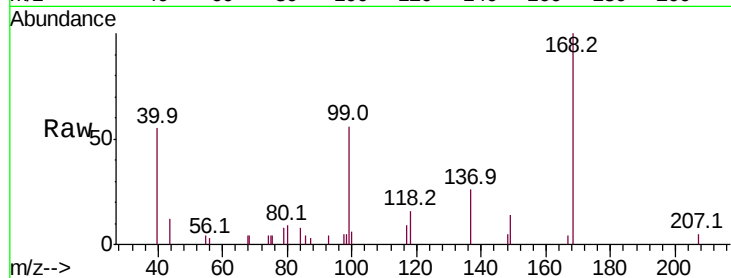
TP-1-(3FT)

Tot Ion:168 Resp: 10260

Ion Ratio Lower Upper

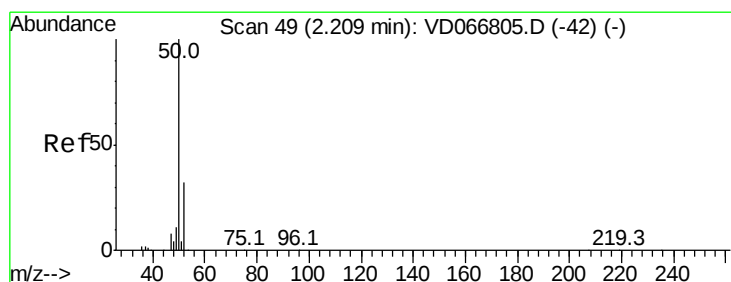
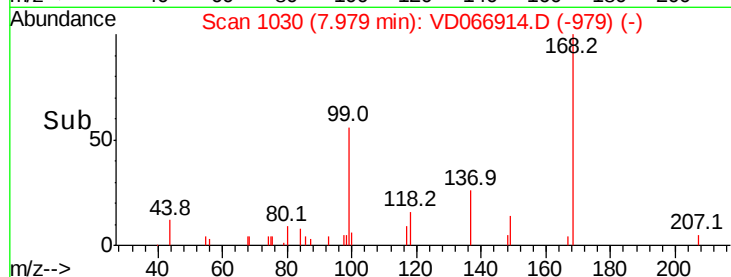
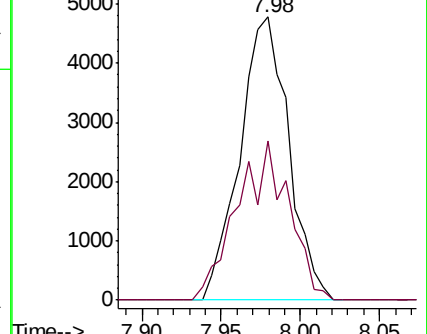
168 100

99 56.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.501 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD066914.D

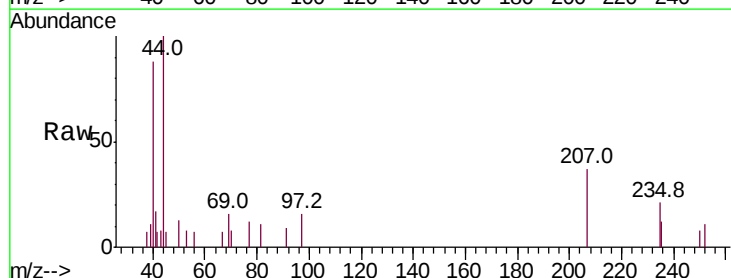
Acq: 28 Sep 2020 15:37

Tgt Ion: 50 Resp: 330

Ion Ratio Lower Upper

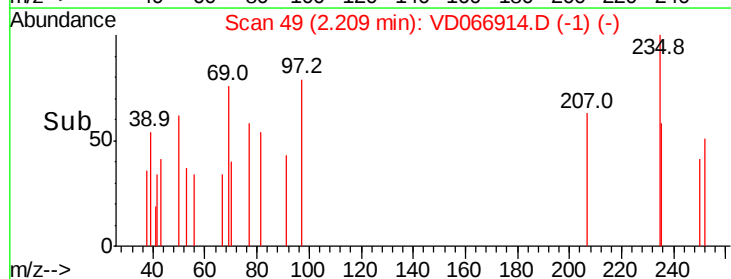
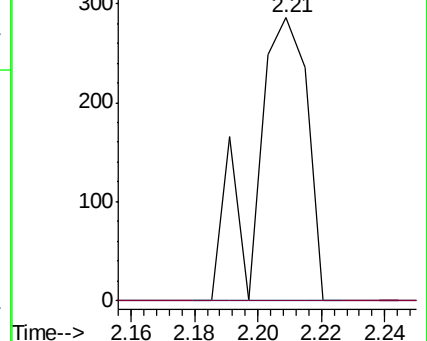
50 100

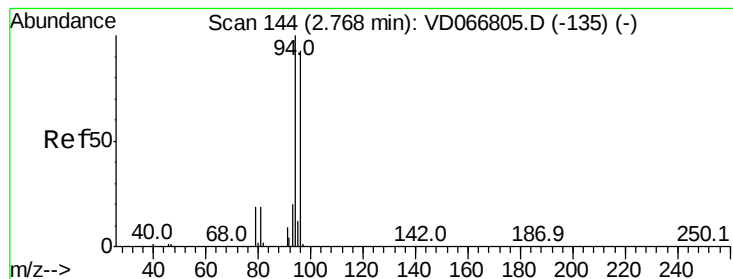
52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 27.177 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

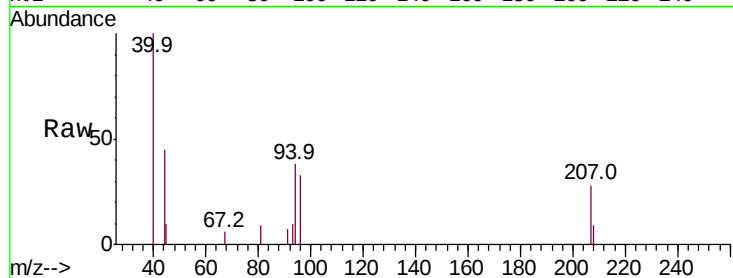
TP-1-(3FT)

Tot Ion: 94 Resp: 1779

Ion Ratio Lower Upper

94 100

96 86.0 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1200

1000

800

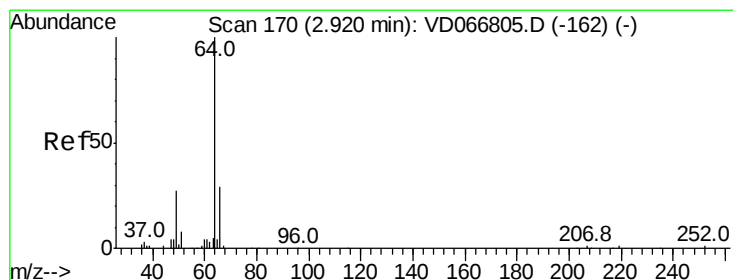
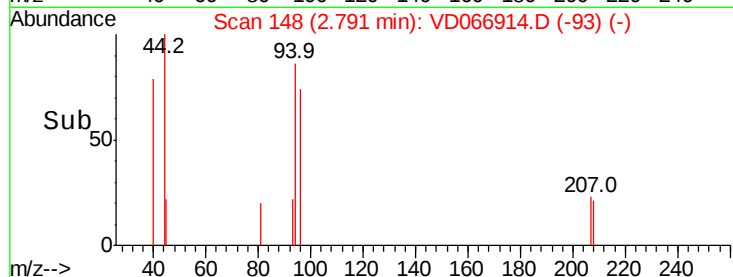
600

400

200

0

Time-->



#6

Chloroethane

Concen: 1.297 ug/l

RT: 2.96 min Scan# 177

Delta R.T. 0.04 min

Lab File: VD066914.D

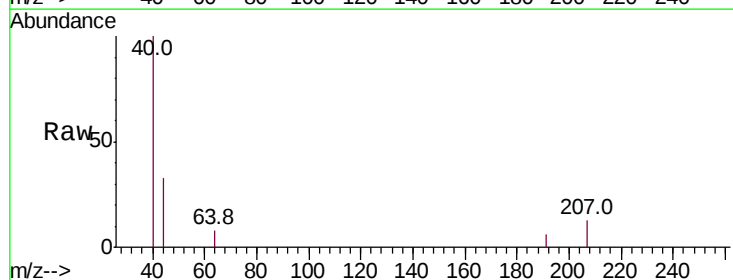
Acq: 28 Sep 2020 15:37

Tgt Ion: 64 Resp: 75

Ion Ratio Lower Upper

64 100

66 0.0 23.3 34.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

250

200

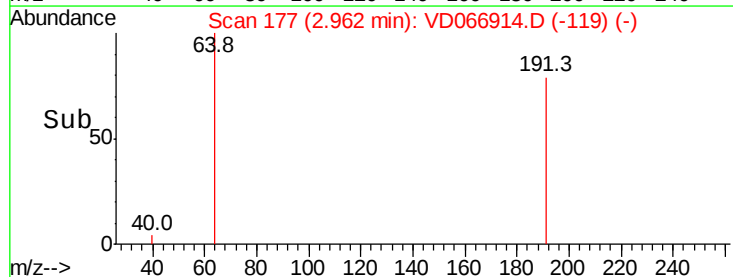
150

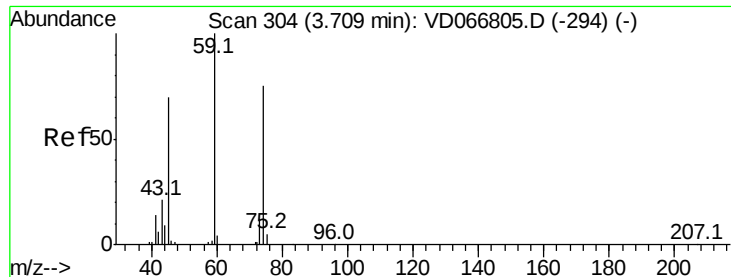
100

50

0

Time-->





#8

Diethyl Ether

Concen: 1.339 ug/l

RT: 3.49 min Scan# 267

Delta R.T. -0.22 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

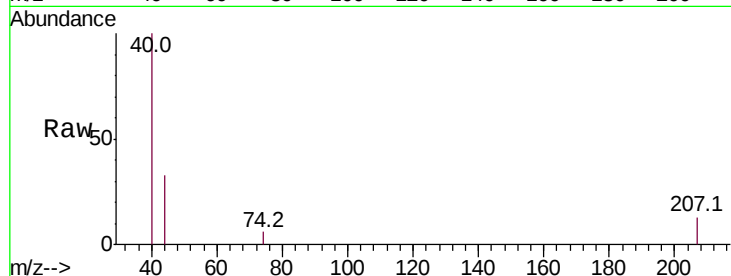
TP-1-(3FT)

Tot Ion: 74 Resp: 65

Ion Ratio Lower Upper

74 100

45 0.0 46.0 138.0#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.49

200

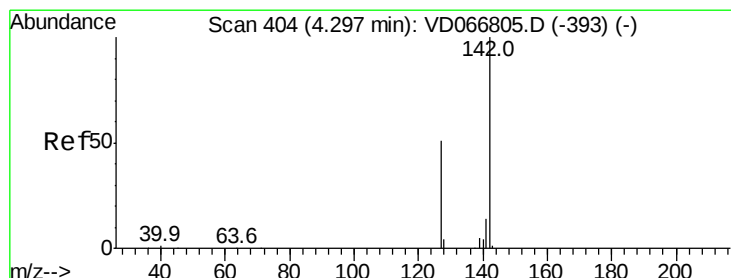
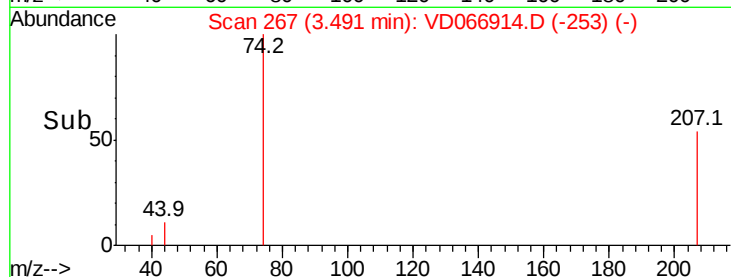
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 19.649 ug/l

RT: 4.32 min Scan# 408

Delta R.T. 0.02 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

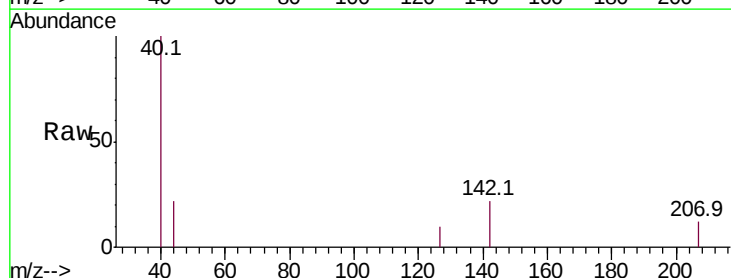
Tgt Ion: 142 Resp: 1923

Ion Ratio Lower Upper

142 100

127 31.6 39.4 59.0#

141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

800

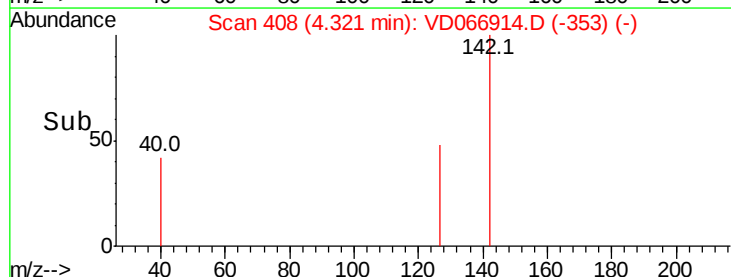
600

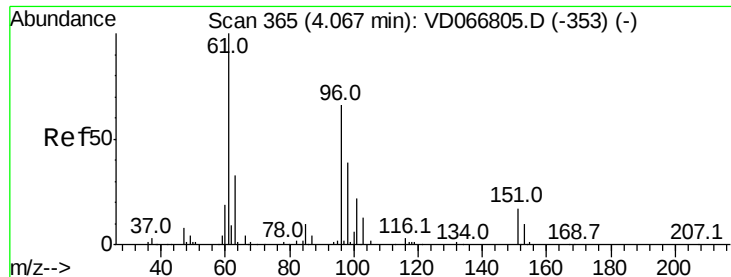
400

200

0

Time-->





#12

1,1-Dichloroethene

Concen: 1.095 ug/l

RT: 3.99 min Scan# 351

Delta R.T. -0.08 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

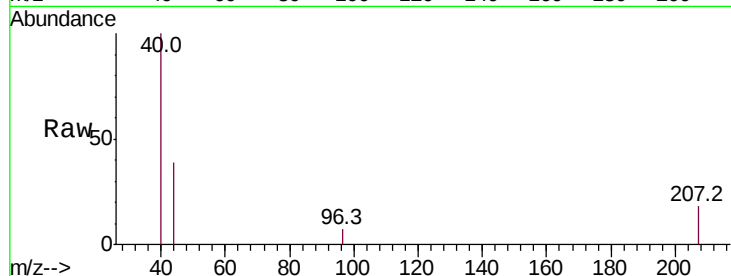
Tot Ion: 96 Resp: 110

Ion Ratio Lower Upper

96 100

61 0.0 120.8 181.2#

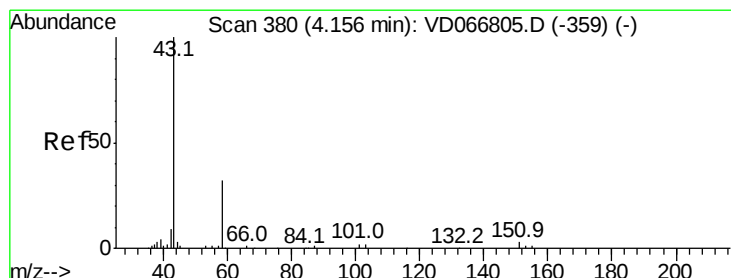
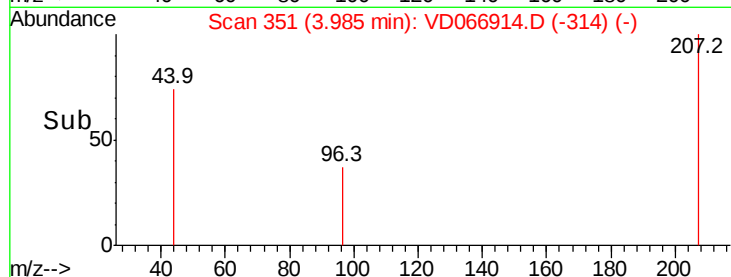
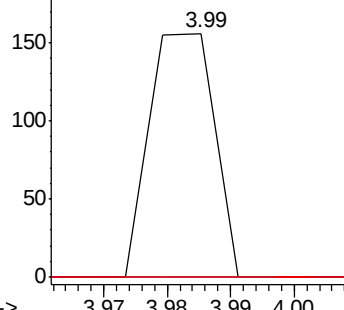
98 0.0 47.7 71.5#



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



#16

Acetone

Concen: 29.292 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD066914.D

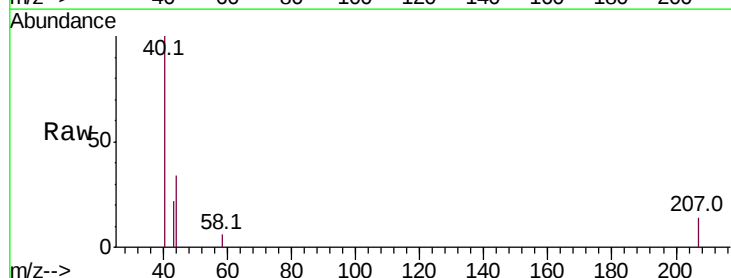
Acq: 28 Sep 2020 15:37

Tgt Ion: 43 Resp: 624

Ion Ratio Lower Upper

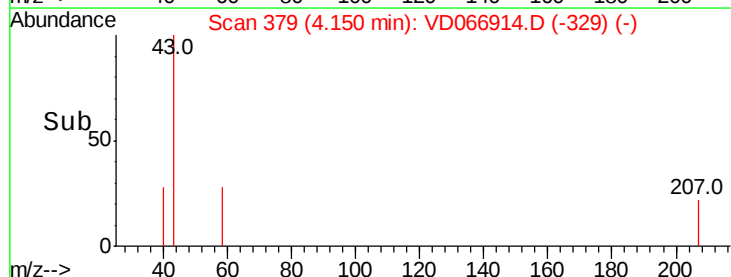
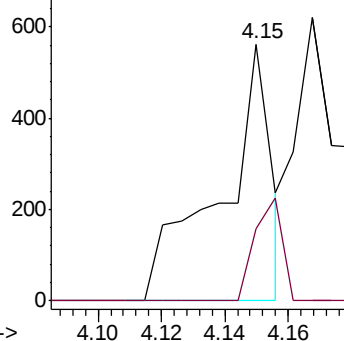
43 100

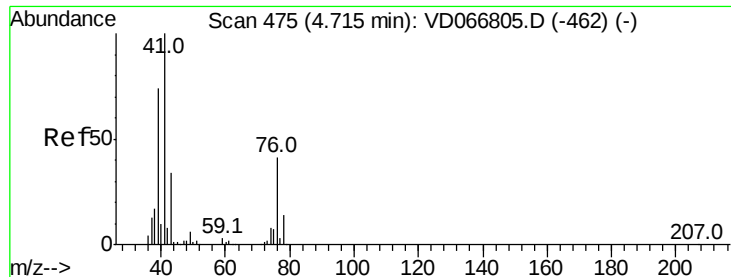
58 27.9 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#18

Methyl Acetate

Concen: Below Cal

RT: 4.90 min Scan# 506

Delta R.T. 0.18 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

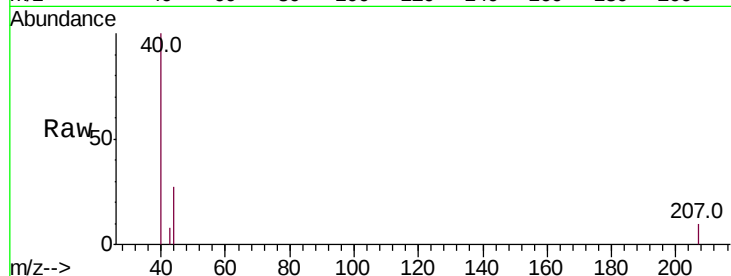
TP-1-(3FT)

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.90

150

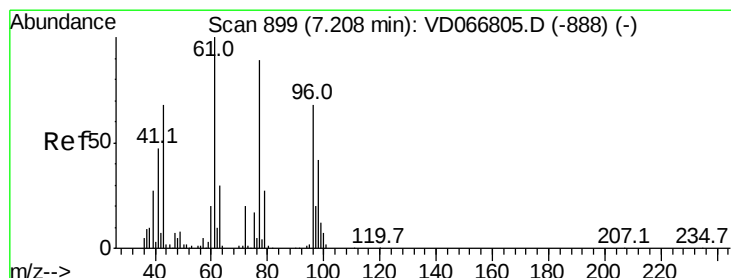
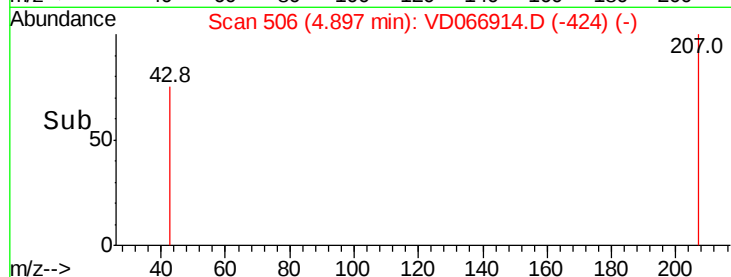
100

50

0

4.88 4.89 4.90 4.91

Time-->



#25

2-Butanone

Concen: 7.734 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD066914.D

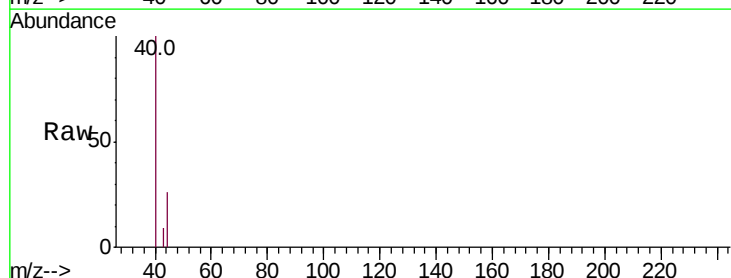
Acq: 28 Sep 2020 15:37

Tgt Ion: 43 Resp: 198

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.22

250

200

150

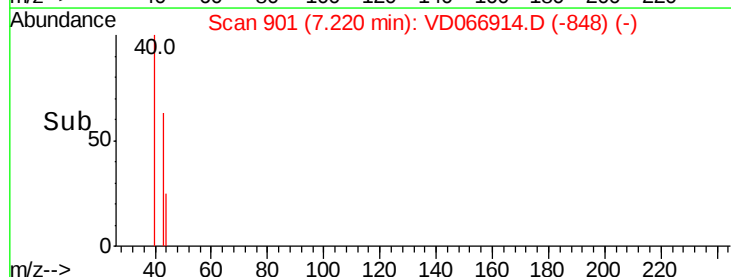
100

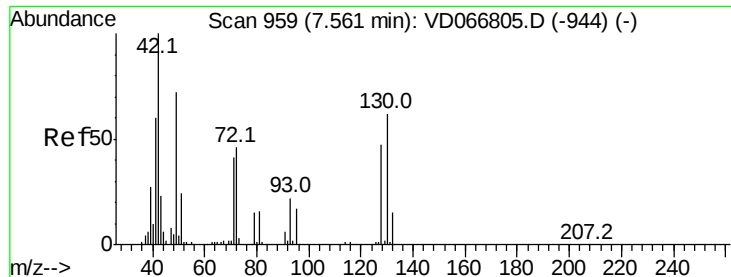
50

0

7.20 7.22 7.24

Time-->





#29

Tetrahydrofuran

Concen: 4.267 ug/l

RT: 7.54 min Scan# 956

Delta R.T. -0.02 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleID :

TP-1-(3FT)

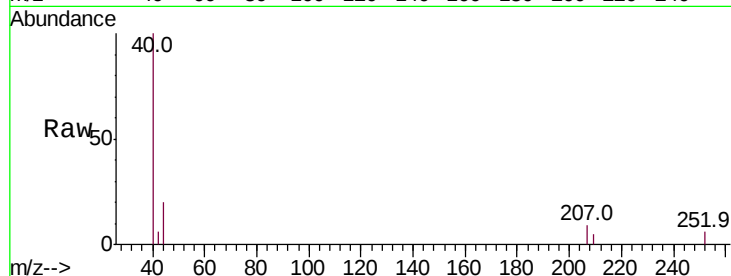
Tot Ion: 42 Resp: 70

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

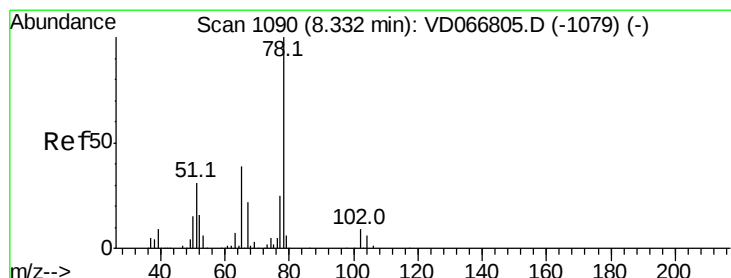
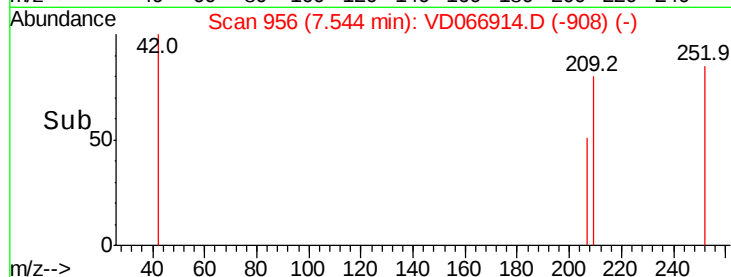
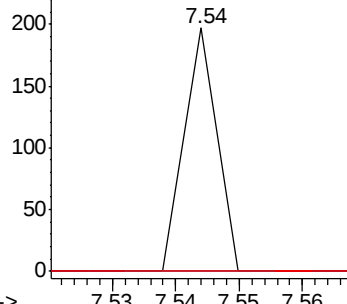
71 0.0 32.4 48.6#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 85.072 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD066914.D

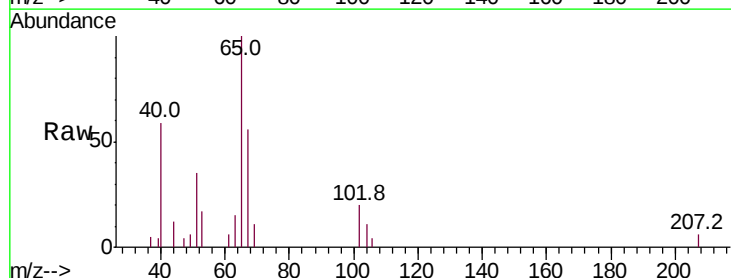
Acq: 28 Sep 2020 15:37

Tgt Ion: 65 Resp: 8543

Ion Ratio Lower Upper

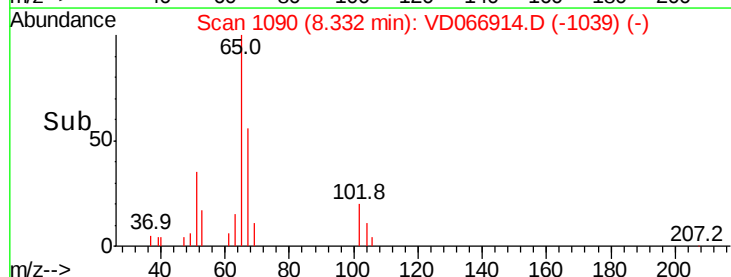
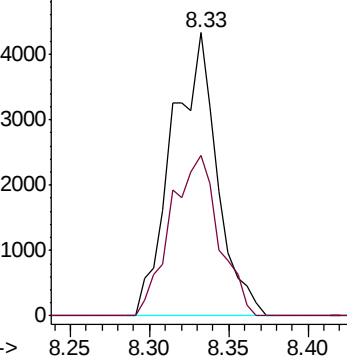
65 100

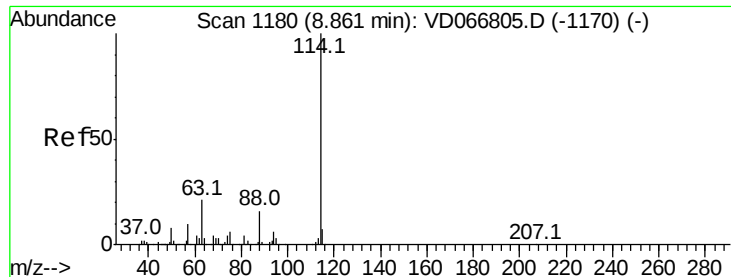
67 60.9 0.0 107.2



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: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

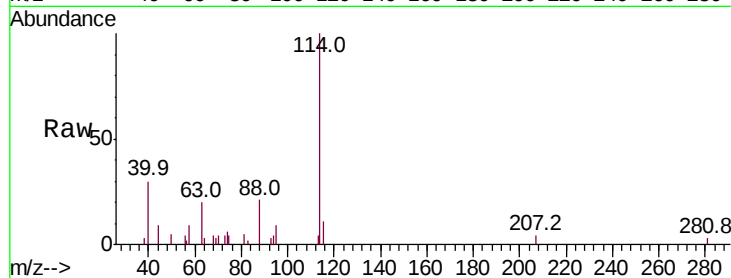
Tot Ion:114 Resp: 16186

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

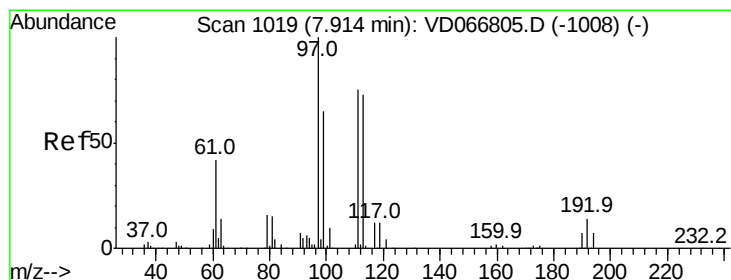
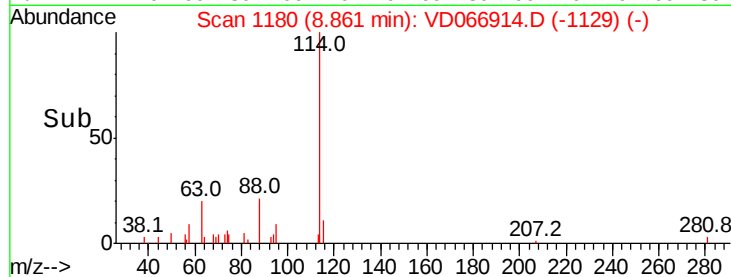
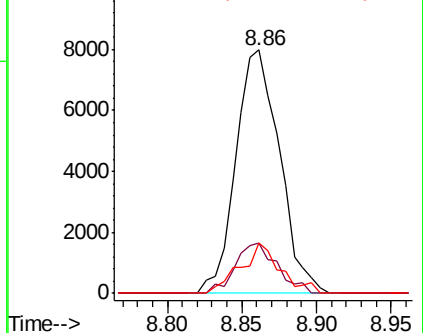
88 20.8 0.0 32.6



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: 30.794 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

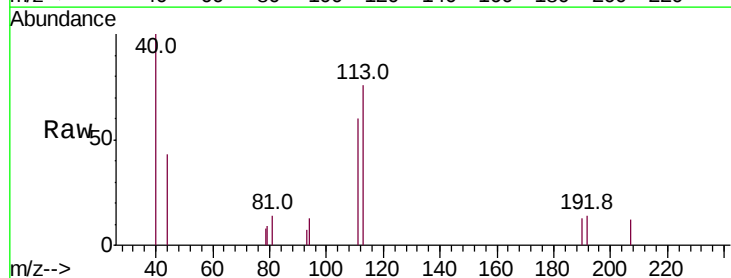
Tgt Ion:113 Resp: 3171

Ion Ratio Lower Upper

113 100

111 108.3 81.8 122.8

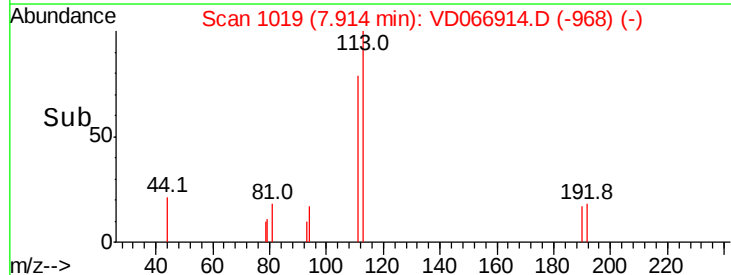
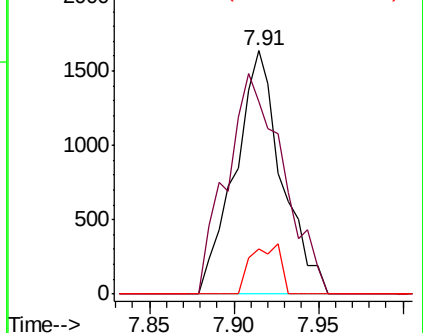
192 12.8 14.4 21.6#

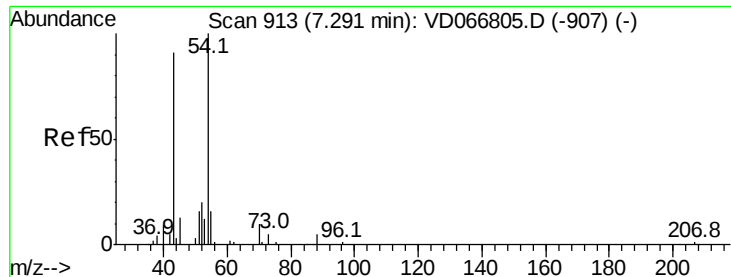


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#37

Ethyl Acetate

Concen: 1.481 ug/l

RT: 7.26 min Scan# 908

Delta R.T. -0.03 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

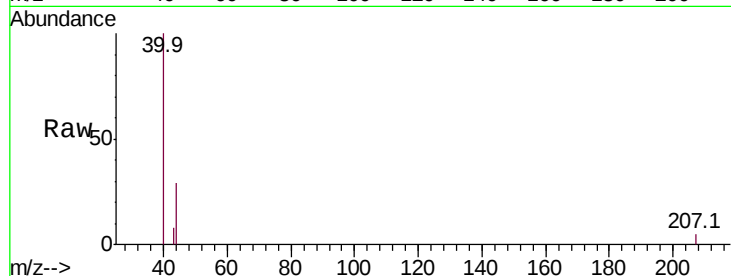
Tot Ion: 43 Resp: 86

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

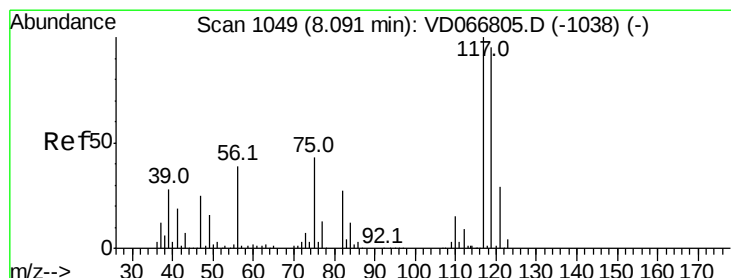
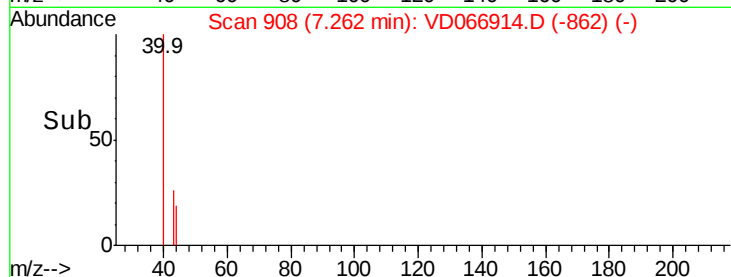
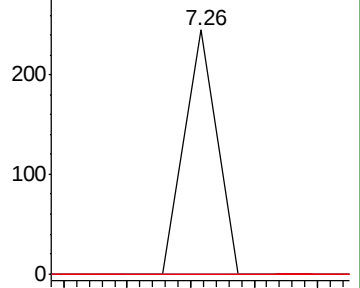
70 0.0 8.5 12.7#



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



#38

Carbon Tetrachloride

Concen: 5.702 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

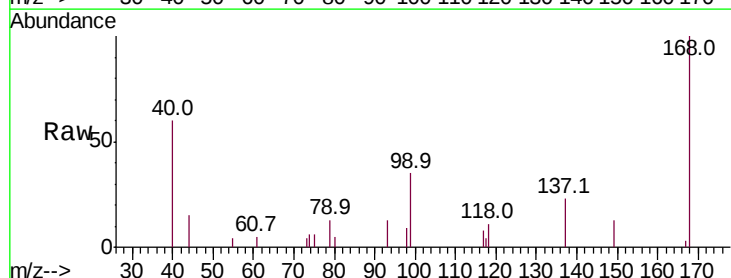
Tgt Ion: 117 Resp: 1001

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

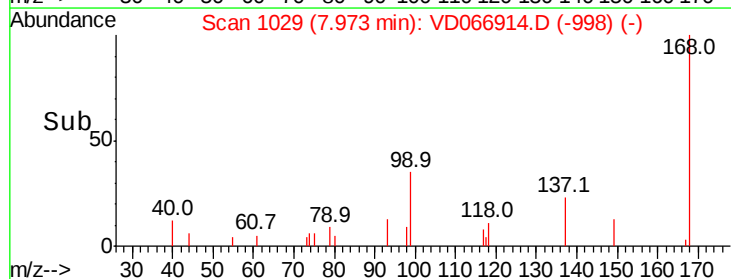
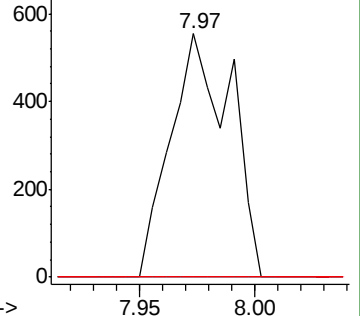
121 0.0 23.4 35.0#

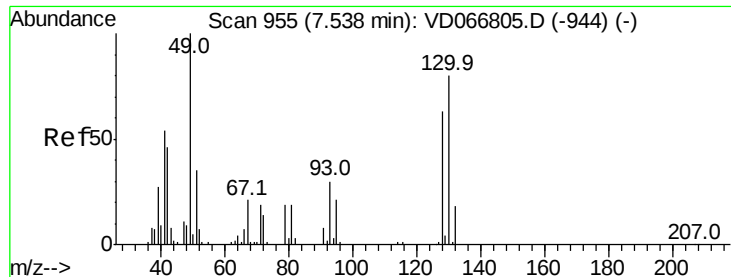


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 2.129 ug/l

RT: 7.49 min Scan# 947

Delta R.T. -0.05 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

Tot Ion: 41 Resp: 76

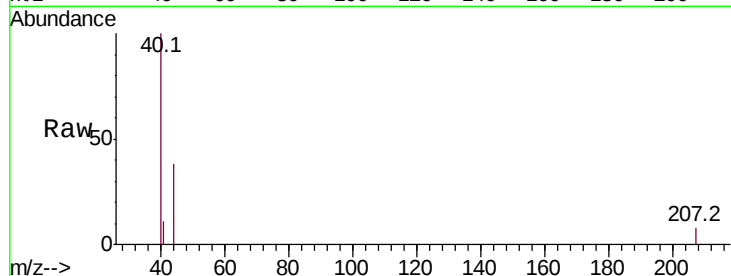
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

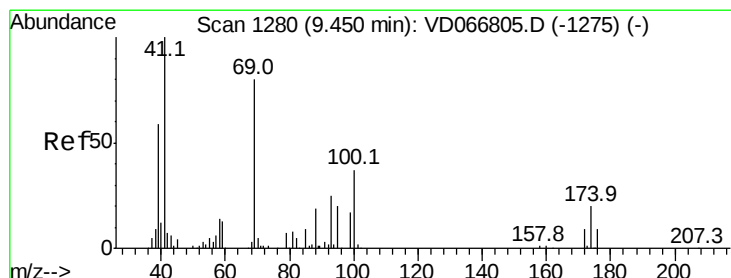
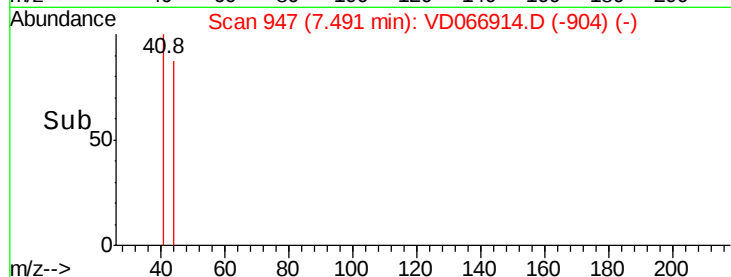
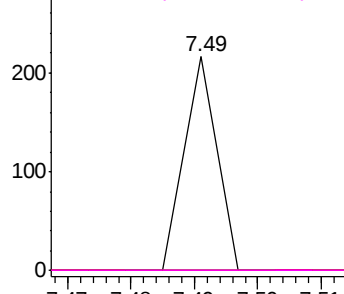


Abundance Ion 41.00 (40.70 to 41.70): VDC

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



#48

Methyl methacrylate

Concen: 1.051 ug/l

RT: 9.54 min Scan# 1296

Delta R.T. 0.09 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

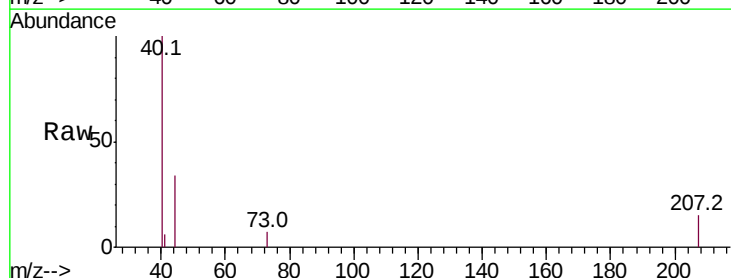
Tgt Ion: 41 Resp: 58

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

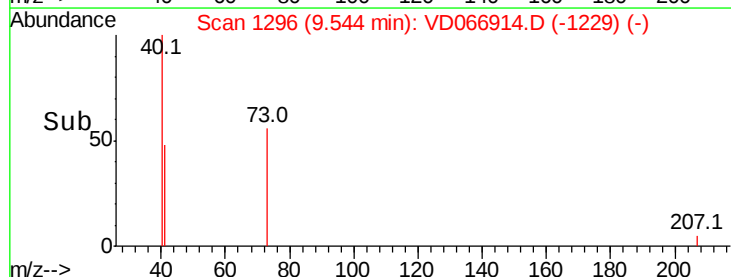
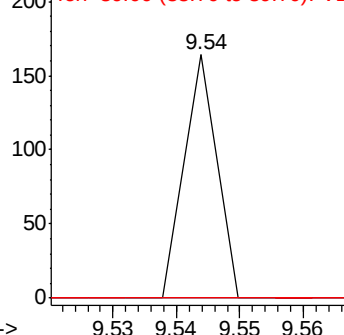
39 0.0 47.0 70.6#

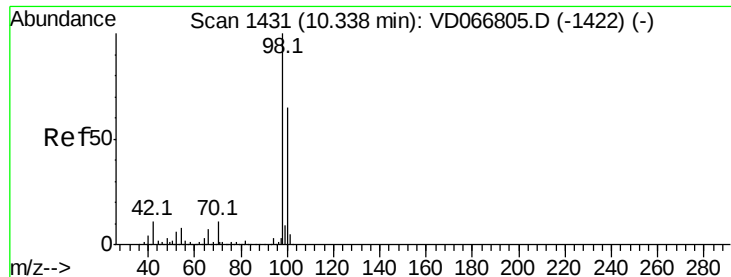


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#50

Toluene-d8

Concen: 54.843 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

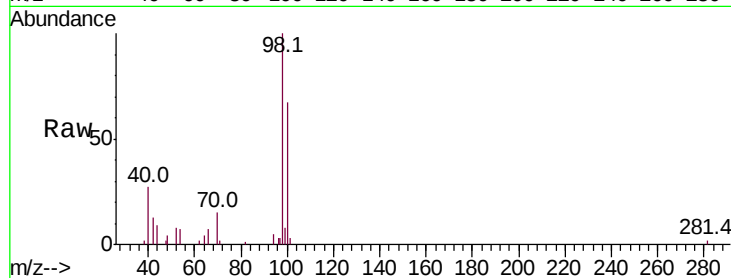
TP-1-(3FT)

Tot Ion: 98 Resp: 19242

Ion Ratio Lower Upper

98 100

100 67.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

12000

10000

8000

6000

4000

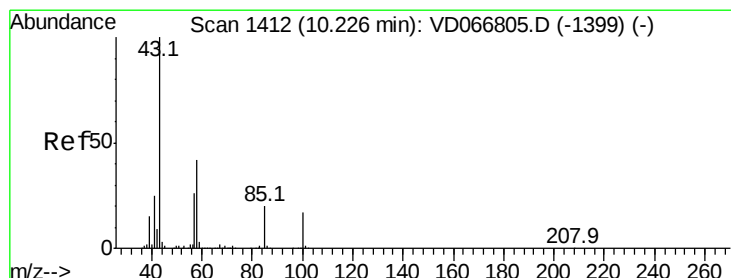
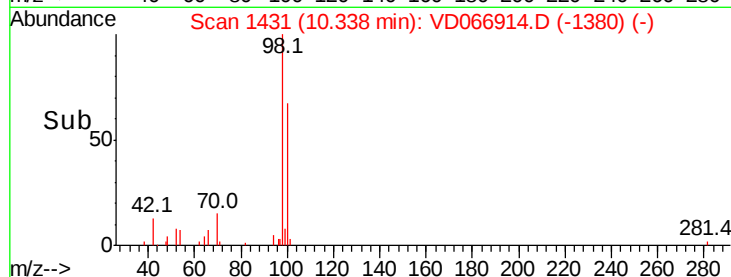
2000

0

Time-->

10.25 10.30 10.35 10.40

10.34



#51

4-Methyl-2-Pentanone

Concen: 1.181 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD066914.D

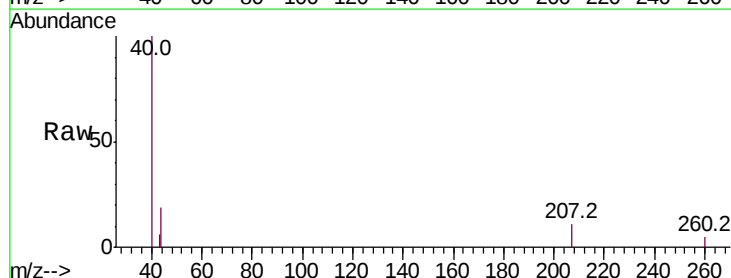
Acq: 28 Sep 2020 15:37

Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

200

150

100

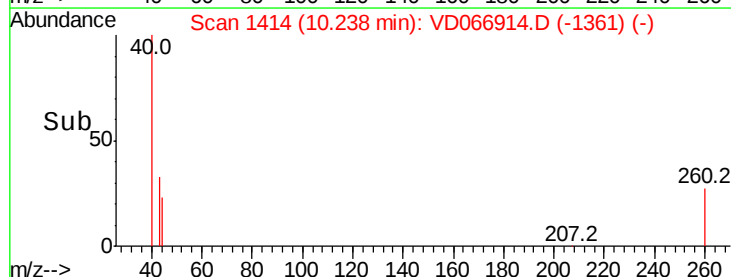
50

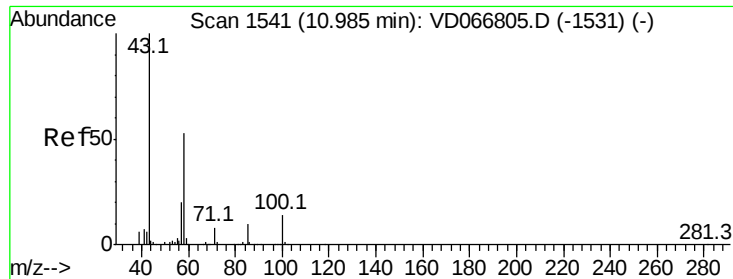
0

Time-->

10.22 10.24

10.24

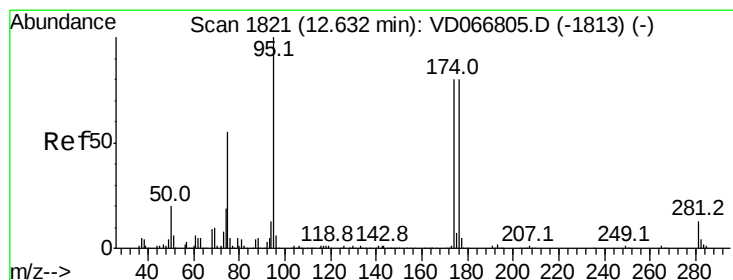
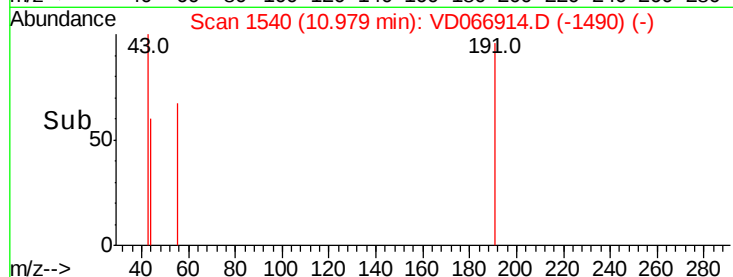
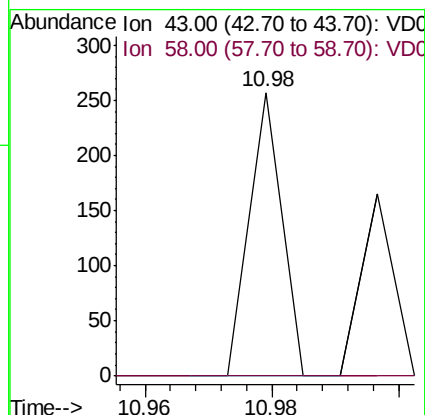
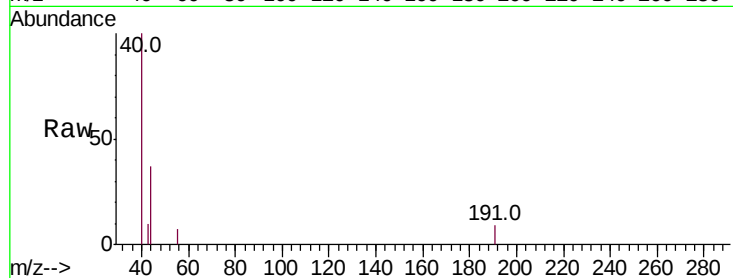




#59
2-Hexanone
Concen: 2.379 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD066914.D
Acq: 28 Sep 2020 15:37

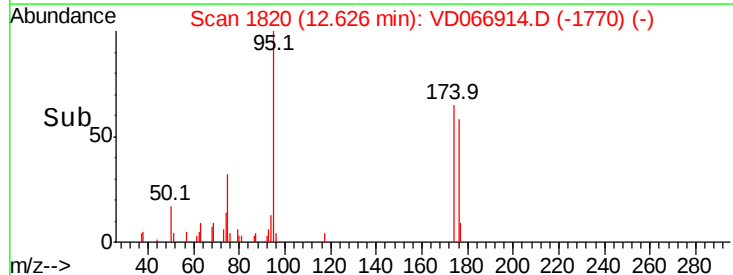
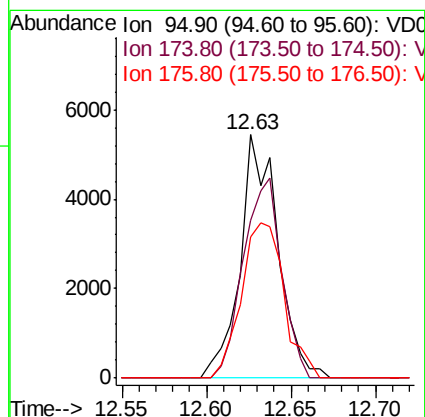
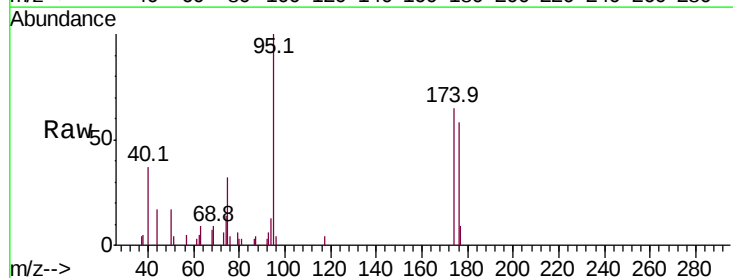
Instrument :
MSVOA_D
ClientSampleId :
TP-1-(3FT)

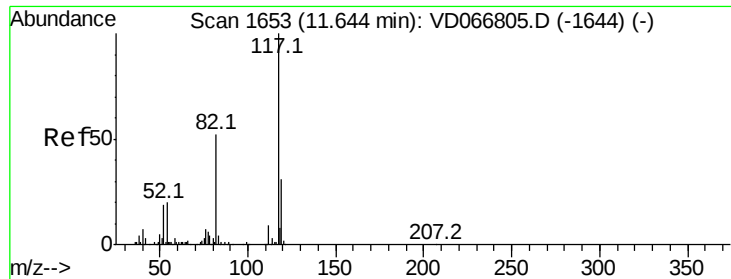
Tot Ion: 43 Resp: 91
Ion Ratio Lower Upper
43 100
58 0.0 27.0 80.8#



#62
4-Bromofluorobenzene
Concen: 70.377 ug/l
RT: 12.63 min Scan# 1820
Delta R.T. -0.01 min
Lab File: VD066914.D
Acq: 28 Sep 2020 15:37

Tgt Ion: 95 Resp: 8453
Ion Ratio Lower Upper
95 100
174 83.4 0.0 159.8
176 72.3 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: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

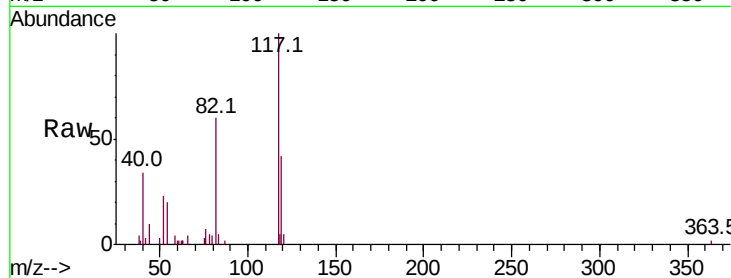
Tot Ion:117 Resp: 17357

Ion Ratio Lower Upper

117 100

82 60.4 41.8 62.6

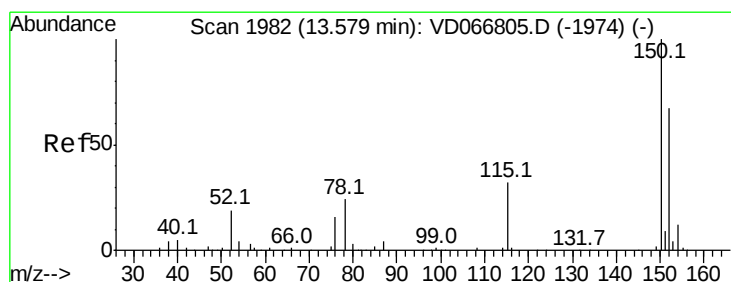
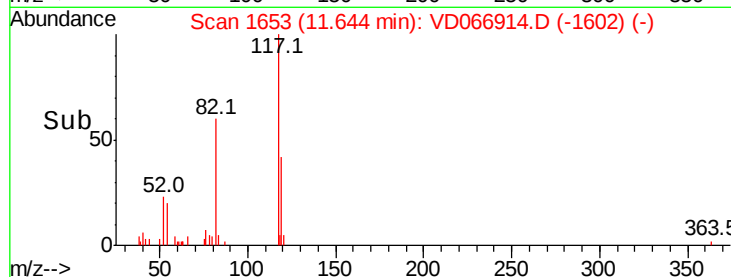
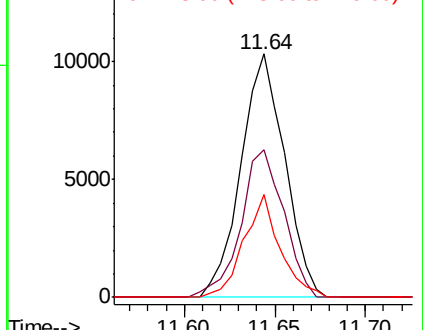
119 42.5 24.6 37.0#



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

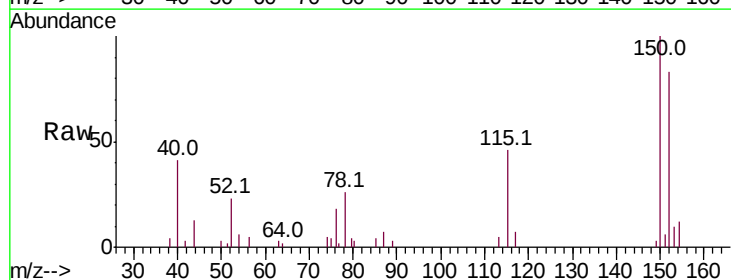
Tgt Ion:152 Resp: 9383

Ion Ratio Lower Upper

152 100

115 57.4 30.3 91.0

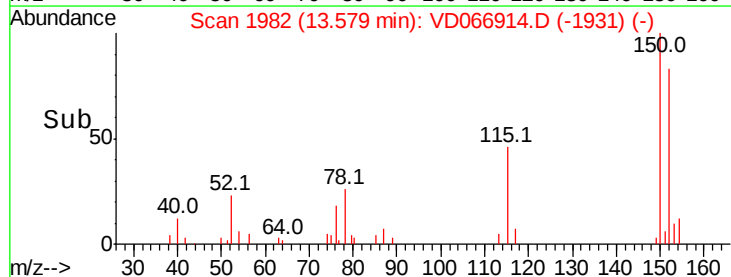
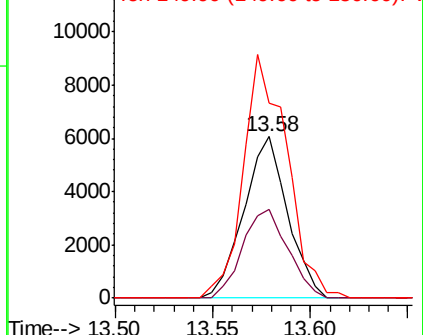
150 150.6 0.0 346.2

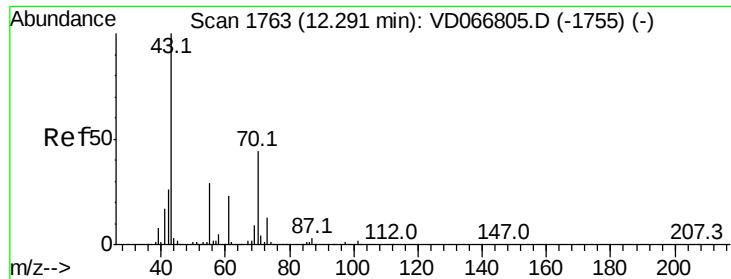


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.307 ug/l

RT: 12.28 min Scan# 1762

Delta R.T. -0.01 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

Tot Ion: 43 Resp: 173

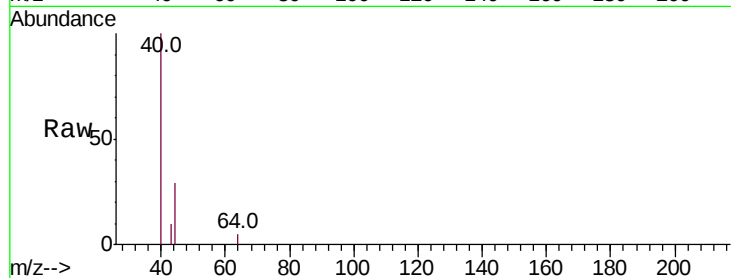
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 44.5 21.8 32.8#

61 0.0 19.0 28.4#

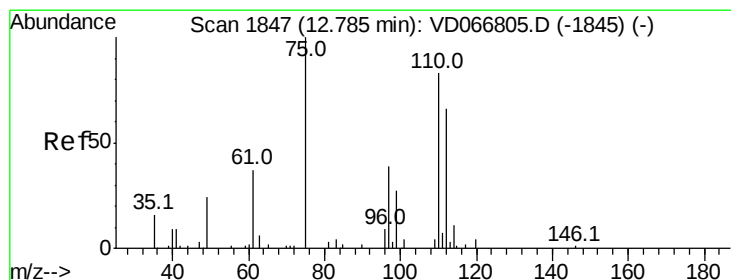
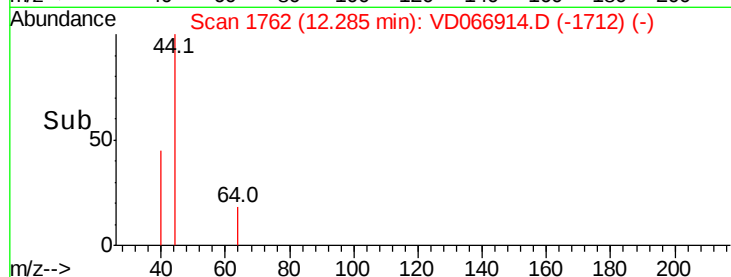
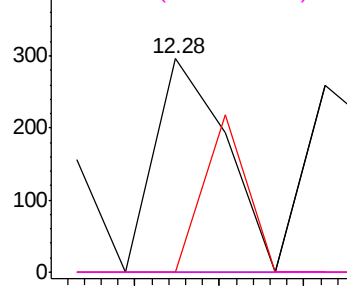


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 51.840 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066914.D

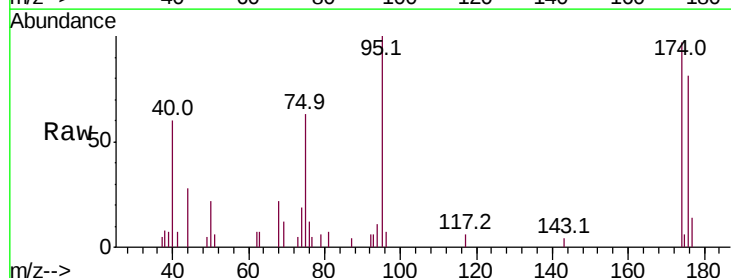
Acq: 28 Sep 2020 15:37

Tgt Ion: 75 Resp: 4031

Ion Ratio Lower Upper

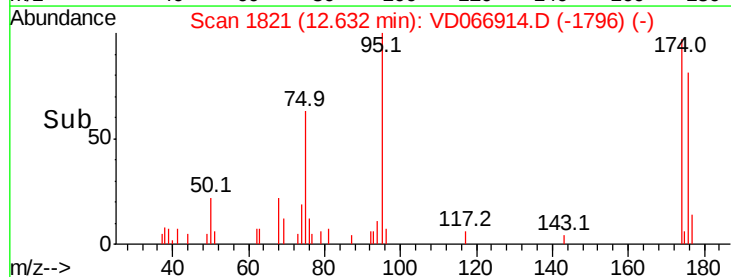
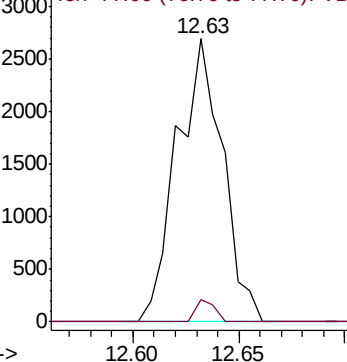
75 100

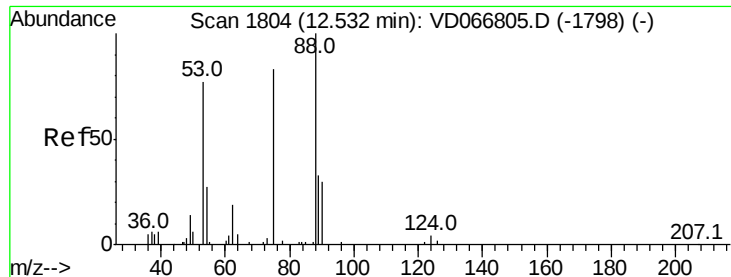
77 3.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 129.698 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

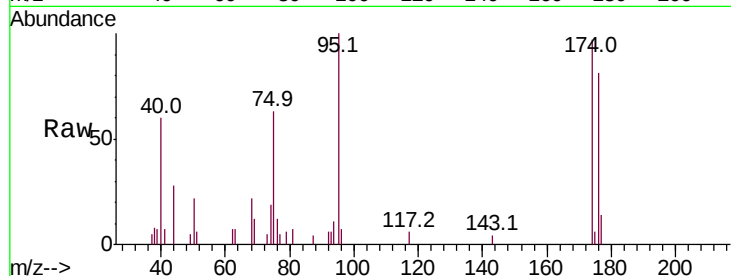
Tot Ion: 75 Resp: 4031

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

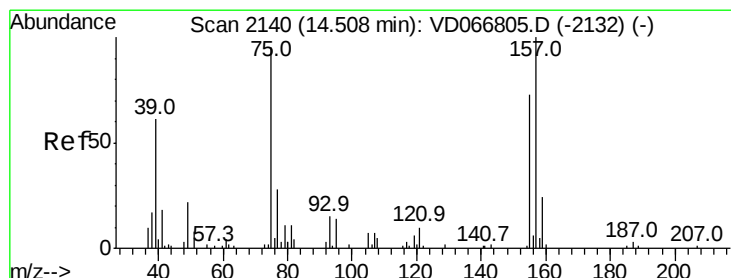
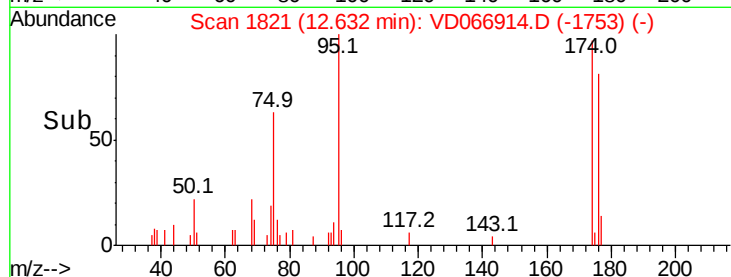
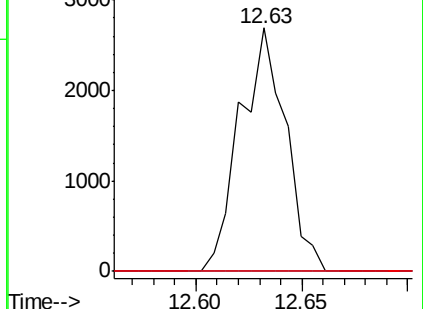
89 0.0 38.1 57.1#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 6.803 ug/l

RT: 14.61 min Scan# 2158

Delta R.T. 0.11 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

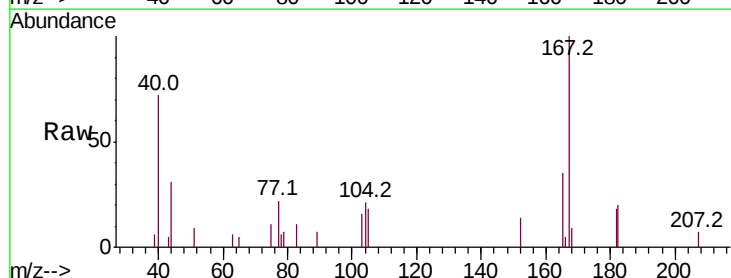
Tgt Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

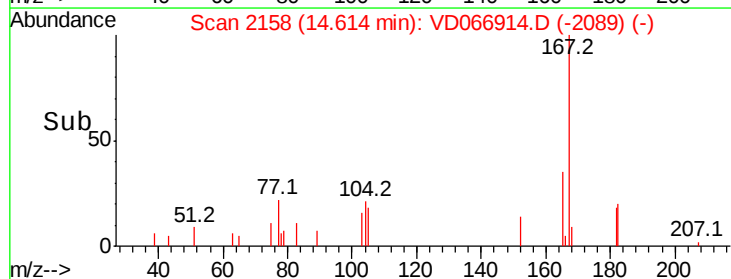
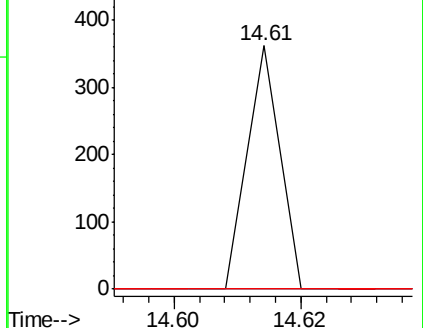
157 0.0 51.3 153.9#

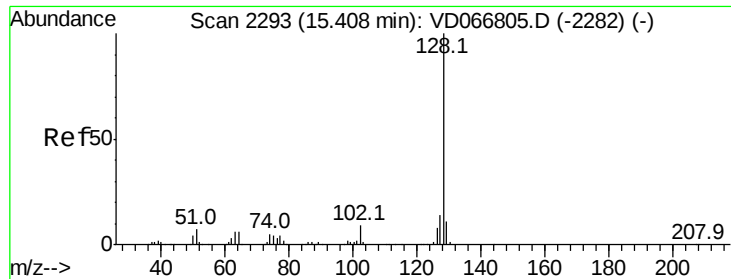


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.208 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD066914.D

Acq: 28 Sep 2020 15:37

Instrument :

MSVOA_D

ClientSampleId :

TP-1-(3FT)

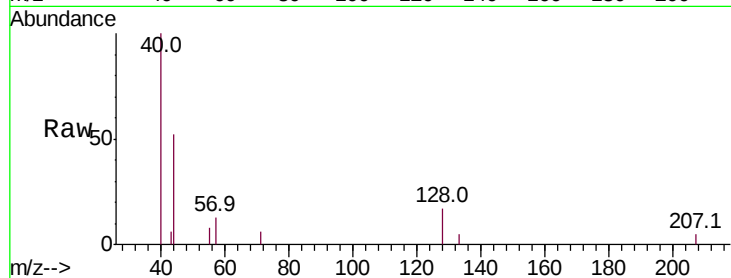
Tot Ion:128 Resp: 346

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 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

