

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD066999.D
 Acq On : 01 Oct 2020 18:15
 Operator : VA/SY
 Sample : L3865-05
 Misc : 8.17G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NB-07-093020

Quant Time: Oct 02 00:41:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	8737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	12298	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	12632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	4813	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	5370	63.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.62%	
35) Dibromofluoromethane	7.91	113	3867	48.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.06%	
50) Toluene-d8	10.34	98	14657	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.64	95	4276	42.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.86%	

Target Compounds

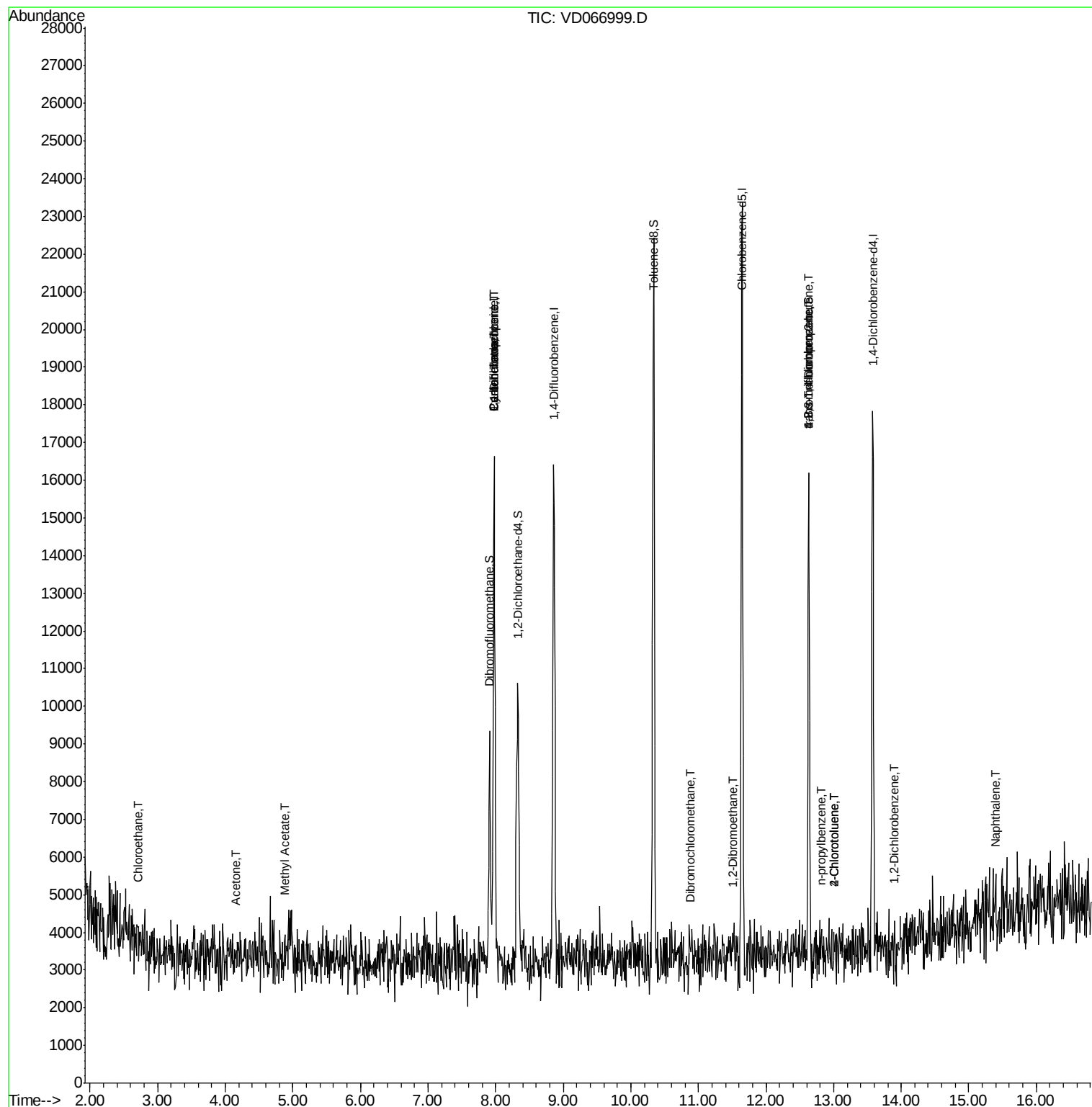
						Qvalue
2) Dichlorodifluoromethane	2.00	85	53	Below Cal	#	40
5) Bromomethane	2.80	94	118	Below Cal	#	46
6) Chloroethane	2.71	64	98	2.307	ug/l #	41
16) Acetone	4.17	43	158	12.299	ug/l #	42
18) Methyl Acetate	4.87	43	118	3.655	ug/l #	48
20) Methylene Chloride	4.96	84	332	Below Cal	#	39
31) Cyclohexane	7.98	56	264	2.089	ug/l #	82
36) 1,1-Dichloropropene	7.98	75	656	5.723	ug/l #	41
38) Carbon Tetrachloride	7.98	117	885	7.135	ug/l #	11
60) Dibromochloromethane	10.88	129	131	1.644	ug/l #	12
61) 1,2-Dibromoethane	11.50	107	60	1.045	ug/l #	3
76) 1,2,3-Trichloropropane	12.63	75	2281	54.409	ug/l #	100
78) n-propylbenzene	12.82	91	452	1.170	ug/l #	52
79) 2-Chlorotoluene	13.01	91	256	1.158	ug/l	77
81) trans-1,4-Dichloro-2-buten	12.63	75	2281	135.650	ug/l #	12
82) 4-Chlorotoluene	13.01	91	256	1.089	ug/l	77
91) 1,2-Dichlorobenzene	13.90	146	171	1.274	ug/l #	24
95) Naphthalene	15.41	128	207	1.429	ug/l #	69

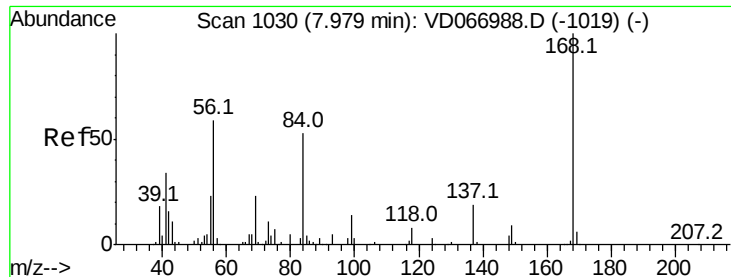
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

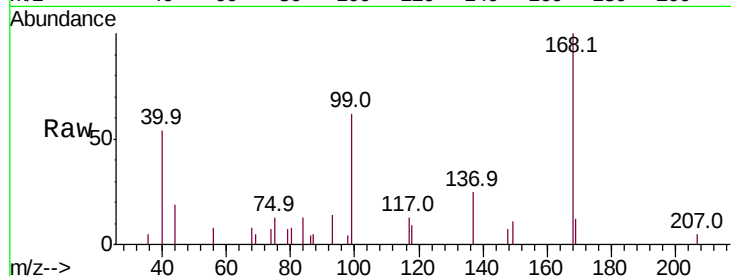
NB-07-093020

Tot Ion:168 Resp: 8737

Ion Ratio Lower Upper

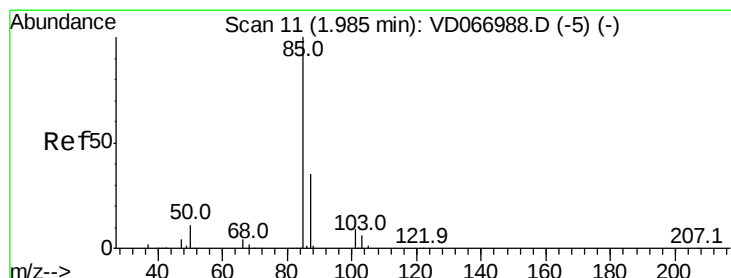
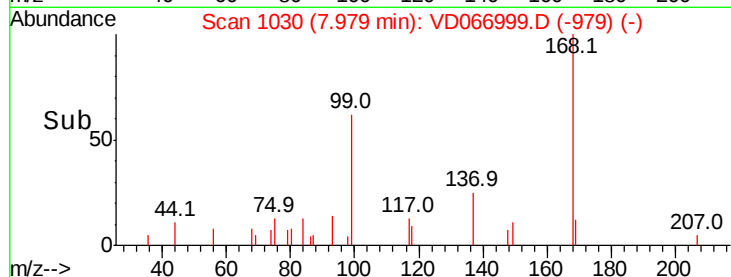
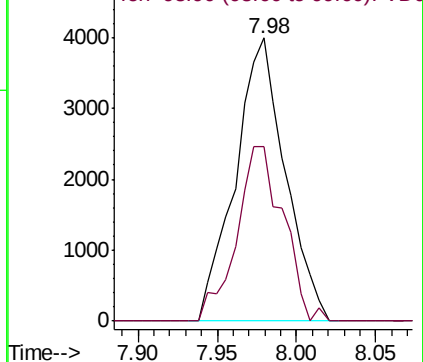
168 100

99 61.7 44.1 66.1



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: 2.00 min Scan# 13

Delta R.T. 0.01 min

Lab File: VD066999.D

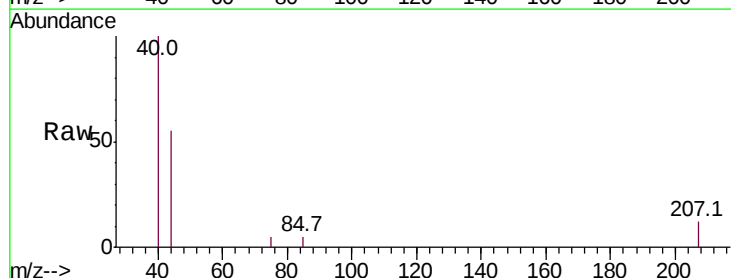
Acq: 01 Oct 2020 18:15

Tgt Ion: 85 Resp: 53

Ion Ratio Lower Upper

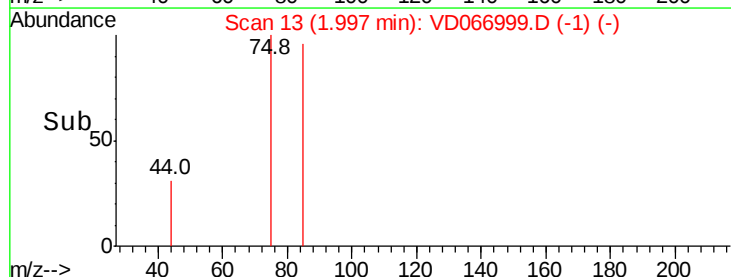
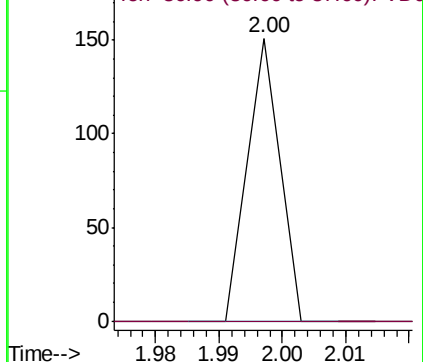
85 100

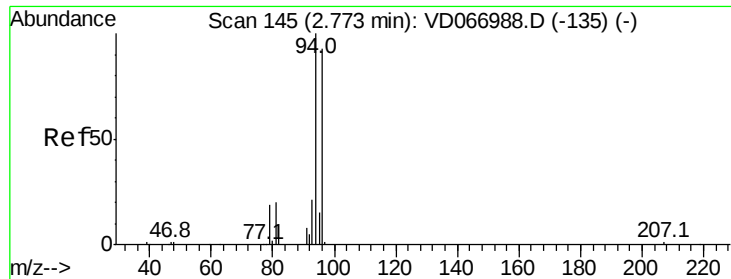
87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.80 min Scan# 150

Delta R.T. 0.03 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

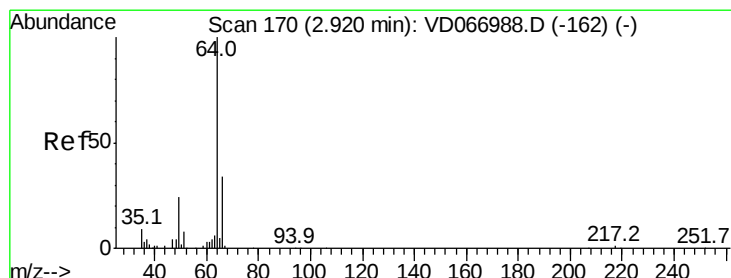
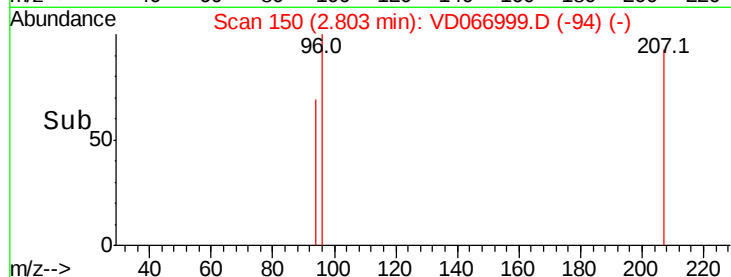
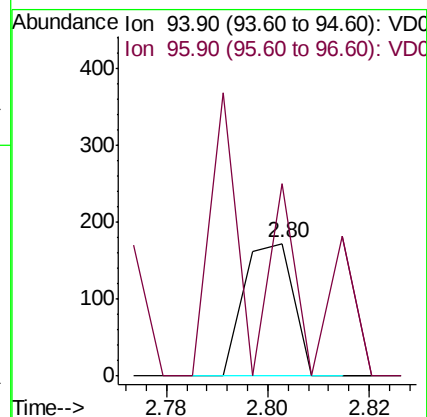
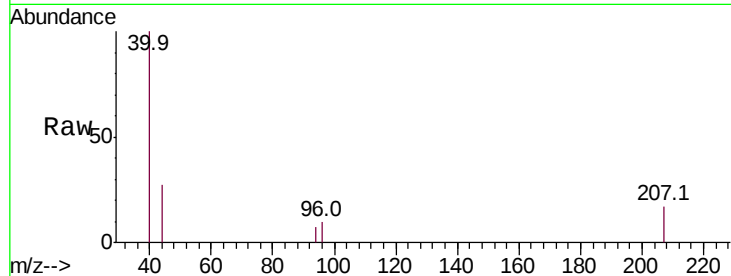
NB-07-093020

Tot Ion: 94 Resp: 118

Ion Ratio Lower Upper

94 100

96 145.1 74.6 112.0#



#6

Chloroethane

Concen: 2.307 ug/l

RT: 2.71 min Scan# 135

Delta R.T. -0.21 min

Lab File: VD066999.D

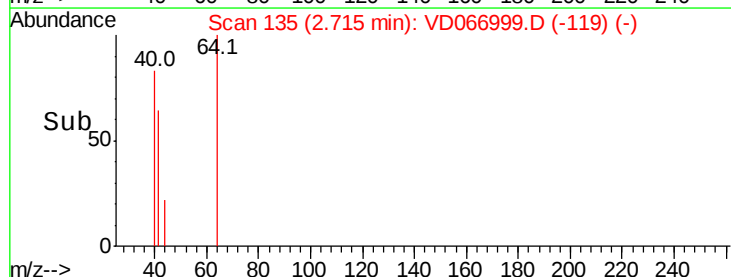
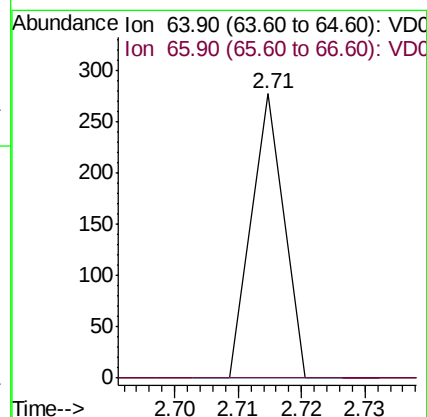
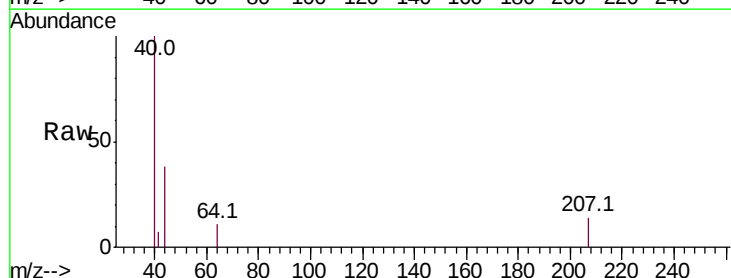
Acq: 01 Oct 2020 18:15

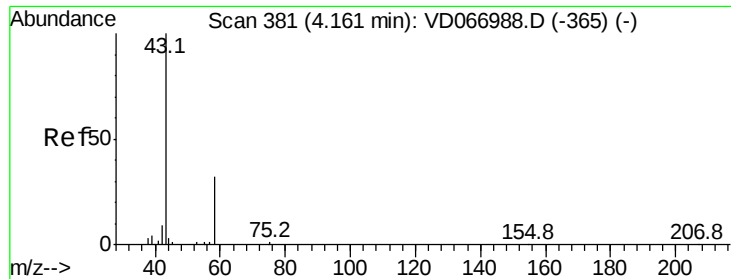
Tgt Ion: 64 Resp: 98

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#





#16

Acetone

Concen: 12.299 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

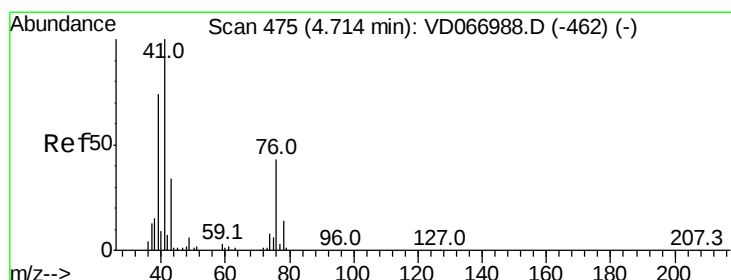
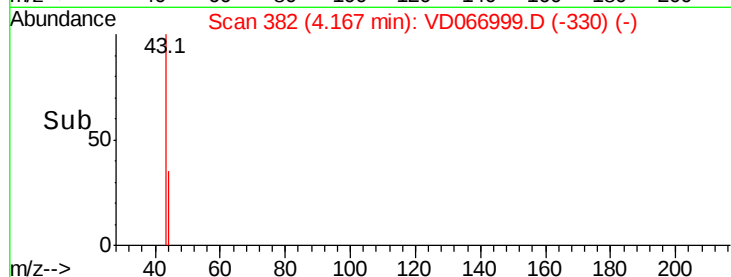
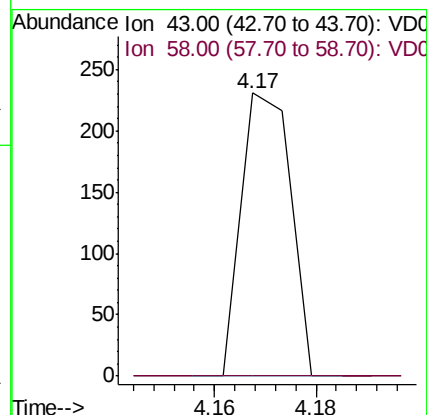
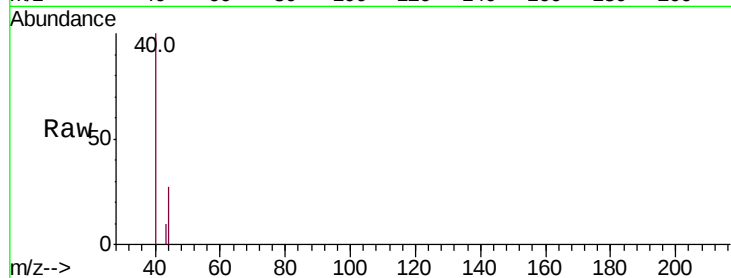
NB-07-093020

Tot Ion: 43 Resp: 158

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



#18

Methyl Acetate

Concen: 3.655 ug/l

RT: 4.87 min Scan# 501

Delta R.T. 0.15 min

Lab File: VD066999.D

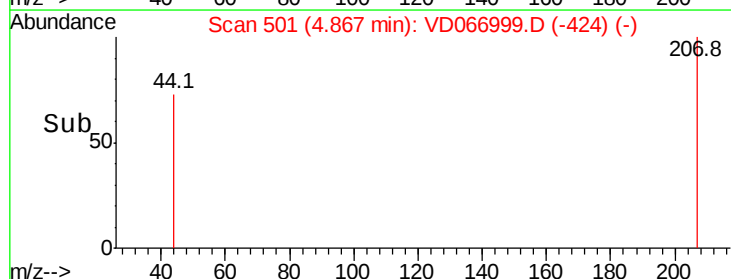
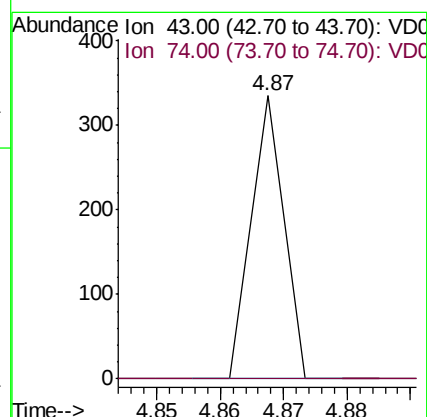
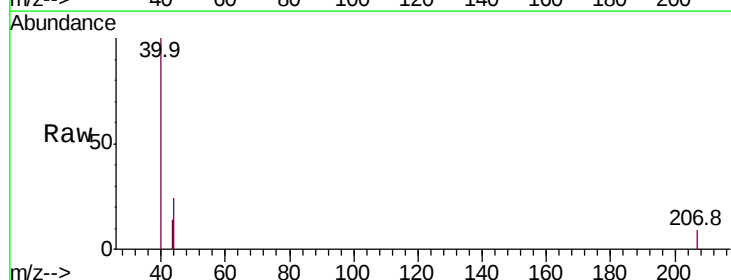
Acq: 01 Oct 2020 18:15

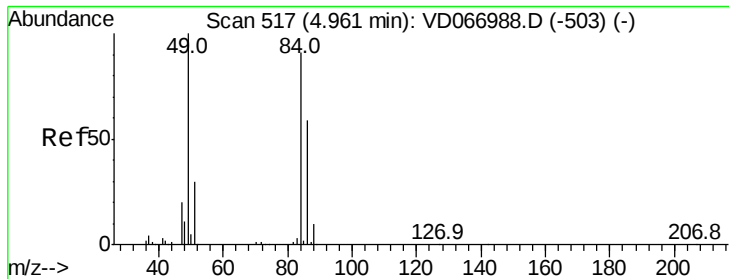
Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

74 0.0 21.5 32.3#

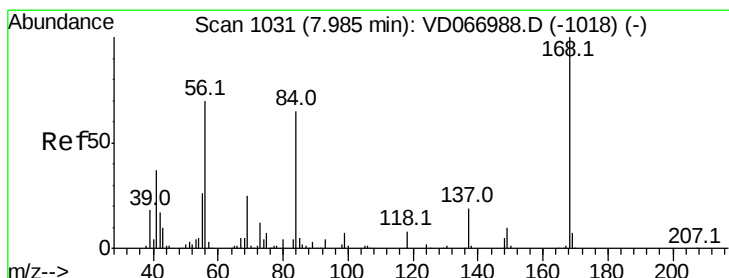
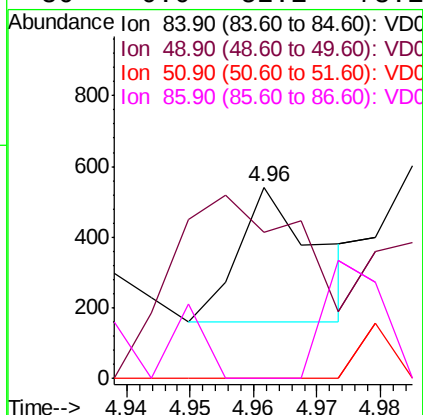
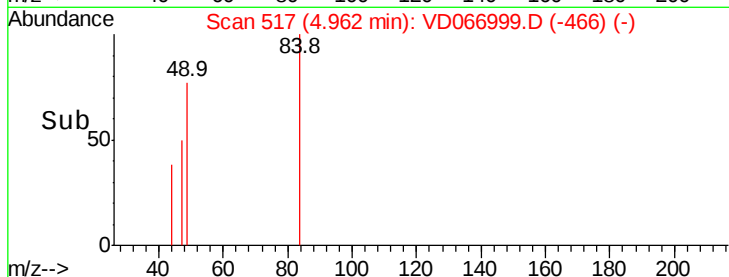
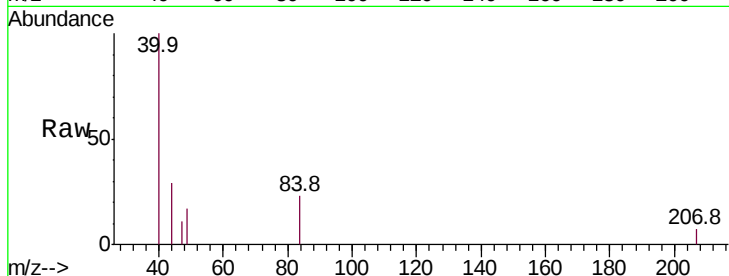




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD066999.D
Acq: 01 Oct 2020 18:15

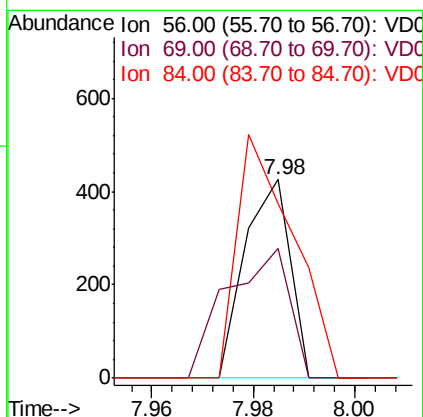
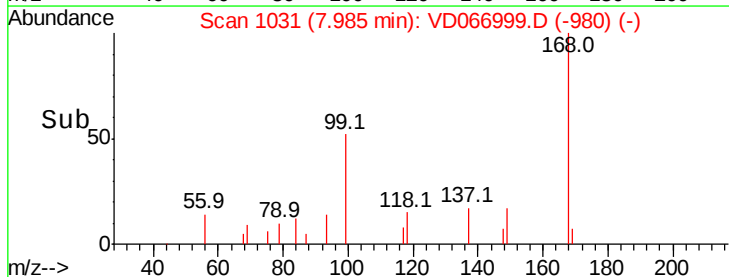
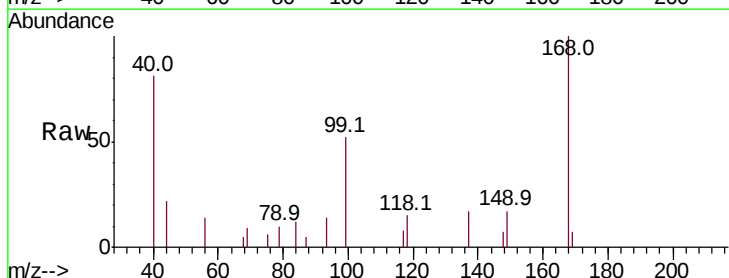
Instrument :
MSVOA_D
ClientSampleId :
NB-07-093020

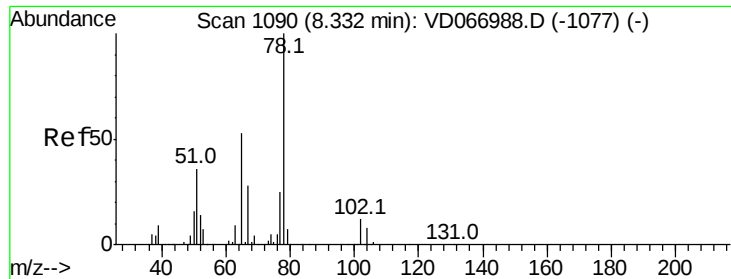
Tot Ion: 84 Resp: 332
Ion Ratio Lower Upper
84 100
49 58.9 88.2 132.2#
51 0.0 26.6 39.8#
86 0.0 52.1 78.1#



#31
Cyclohexane
Concen: 2.089 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD066999.D
Acq: 01 Oct 2020 18:15

Tgt Ion: 56 Resp: 264
Ion Ratio Lower Upper
56 100
69 65.0 29.0 43.6#
84 87.6 74.2 111.2





#33

1,2-Dichloroethane-d4

Concen: 63.811 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

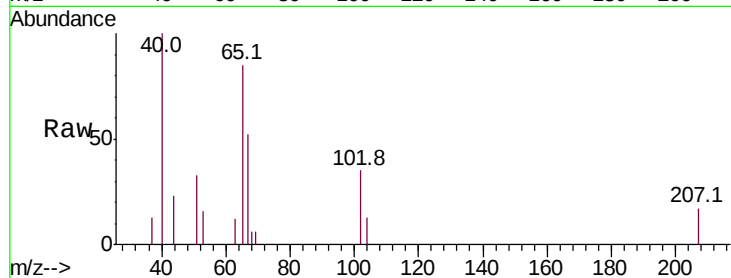
NB-07-093020

Tot Ion: 65 Resp: 5370

Ion Ratio Lower Upper

65 100

67 65.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

2500

2000

1500

1000

500

0

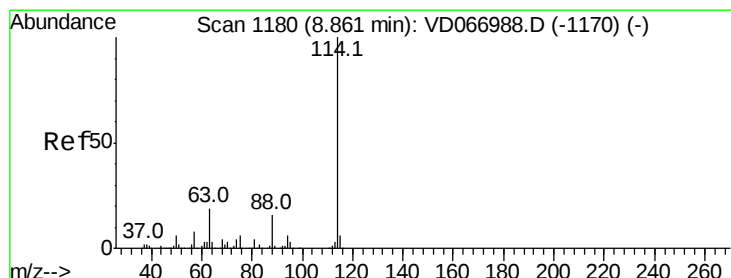
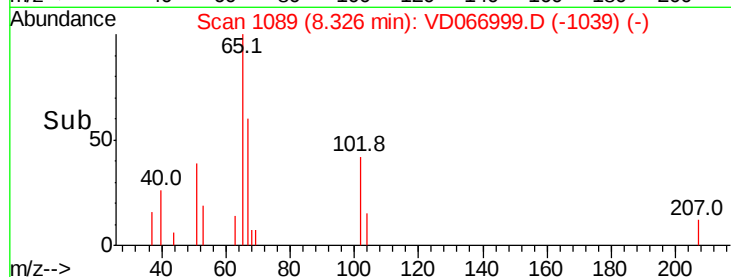
Time-->

8.25

8.30

8.35

8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

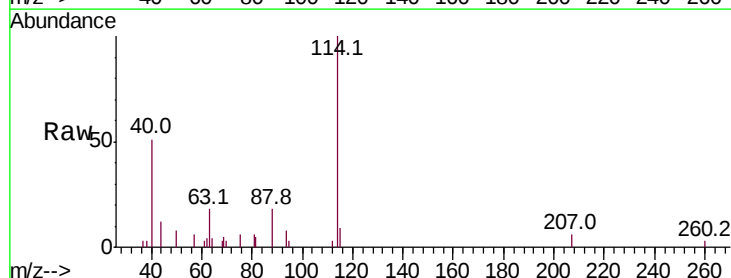
Tgt Ion: 114 Resp: 12298

Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.4

88 18.4 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

6000

4000

2000

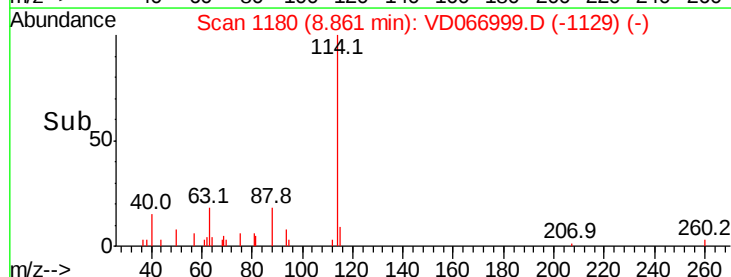
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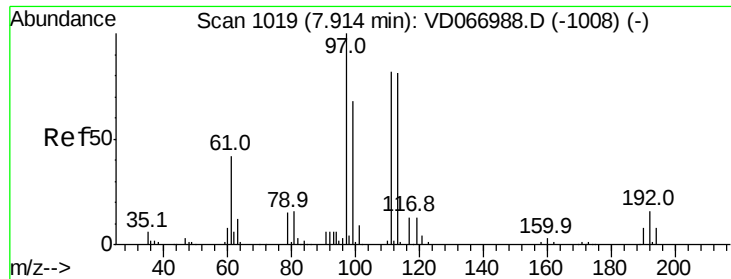
Time-->

8.80

8.85

8.90

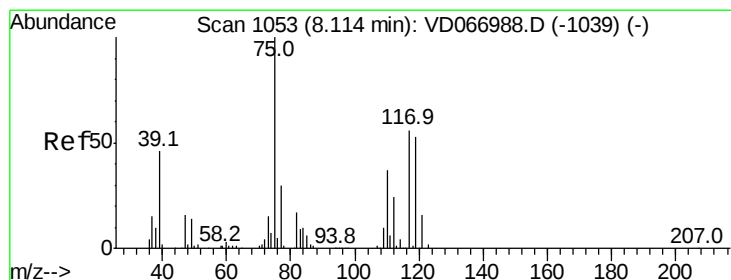
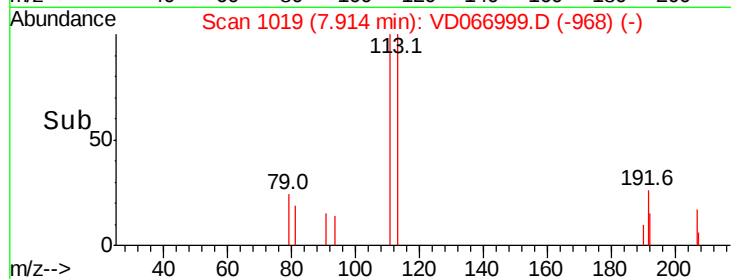
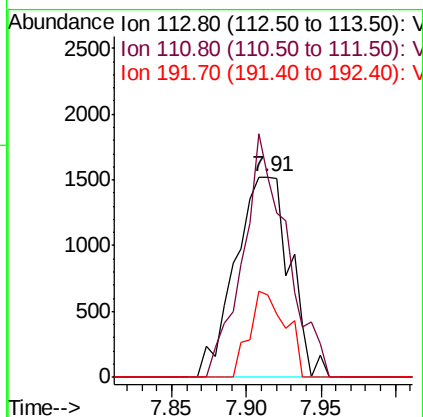
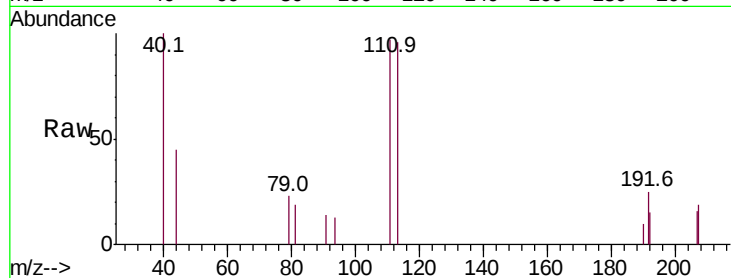




#35
 Dibromofluoromethane
 Concen: 48.030 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD066999.D
 Acq: 01 Oct 2020 18:15

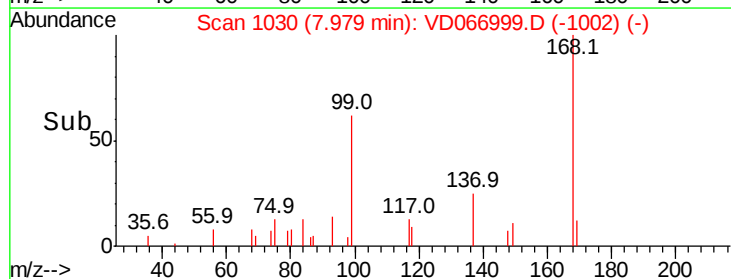
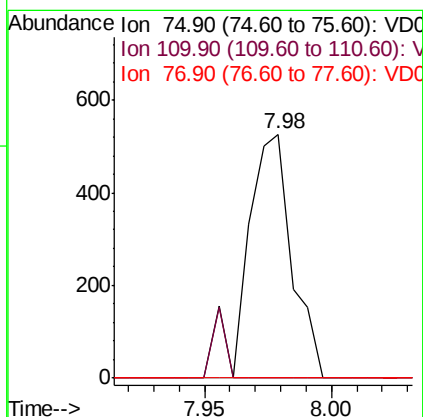
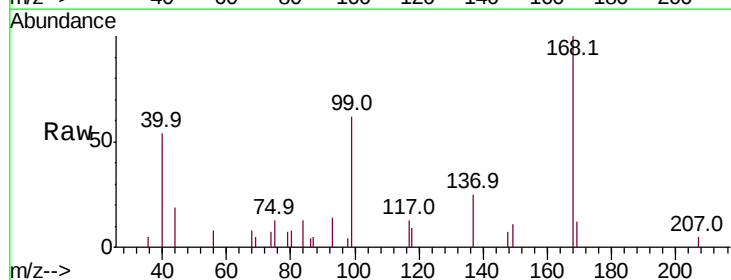
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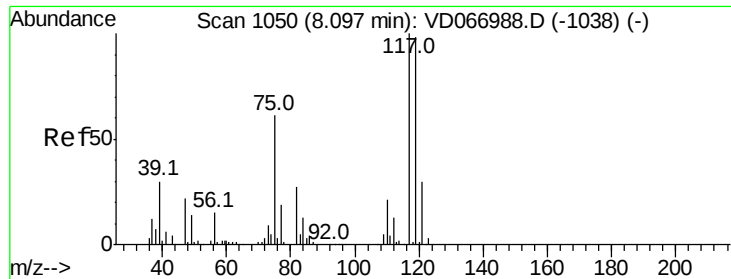
Tot Ion:113 Resp: 3867
 Ion Ratio Lower Upper
 113 100
 111 97.4 83.0 124.4
 192 28.4 15.5 23.3#



#36
 1,1-Dichloropropene
 Concen: 5.723 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD066999.D
 Acq: 01 Oct 2020 18:15

Tgt Ion: 75 Resp: 656
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.4 55.0#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.135 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

NB-07-093020

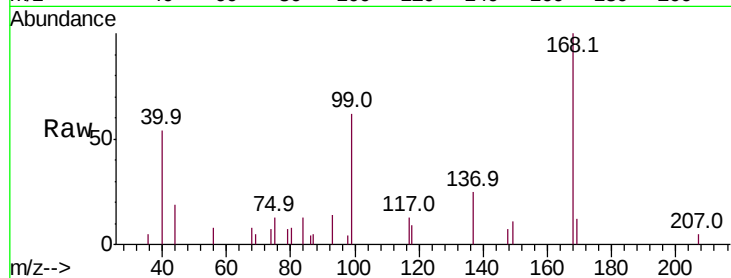
Tot Ion:117 Resp: 885

Ion Ratio Lower Upper

117 100

119 0.0 78.7 118.1#

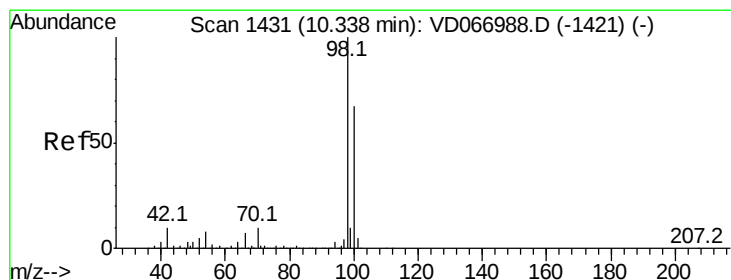
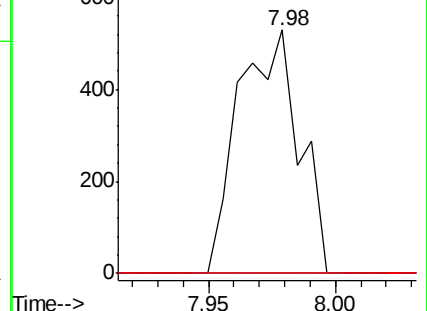
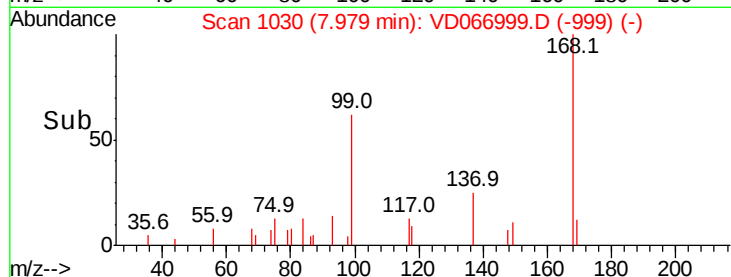
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.959 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066999.D

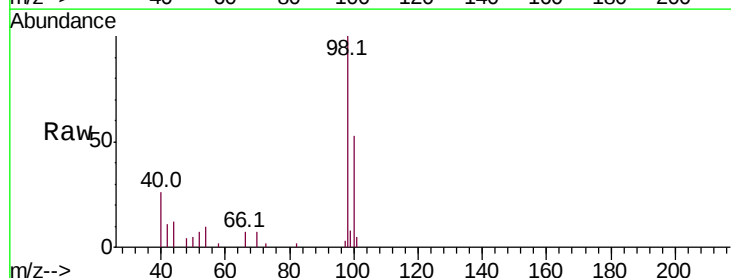
Acq: 01 Oct 2020 18:15

Tgt Ion: 98 Resp: 14657

Ion Ratio Lower Upper

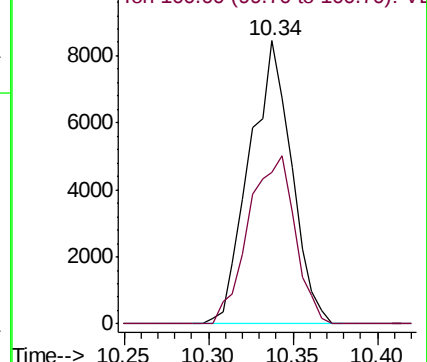
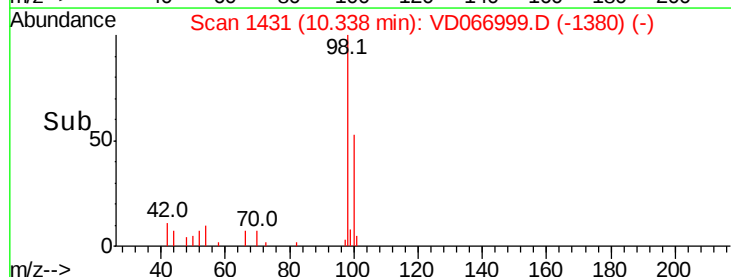
98 100

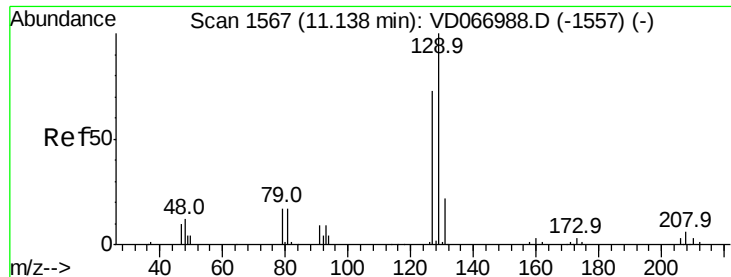
100 65.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 1.644 ug/l

RT: 10.88 min Scan# 1524

Delta R.T. -0.25 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

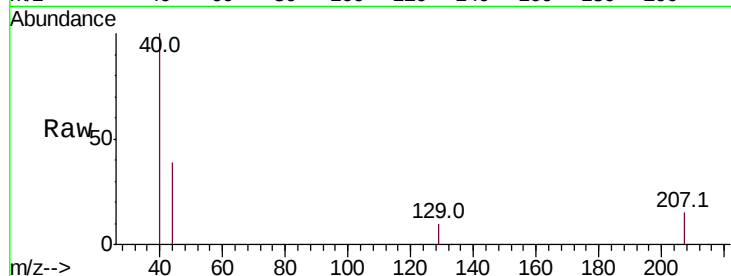
NB-07-093020

Tot Ion:129 Resp: 131

Ion Ratio Lower Upper

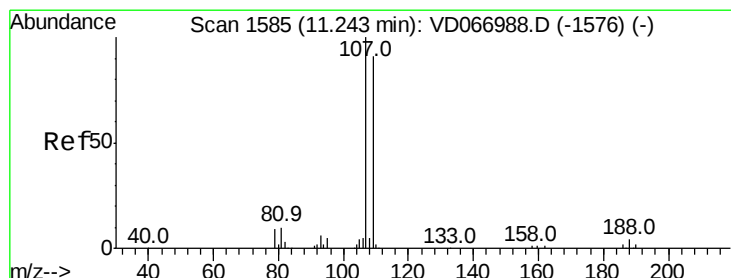
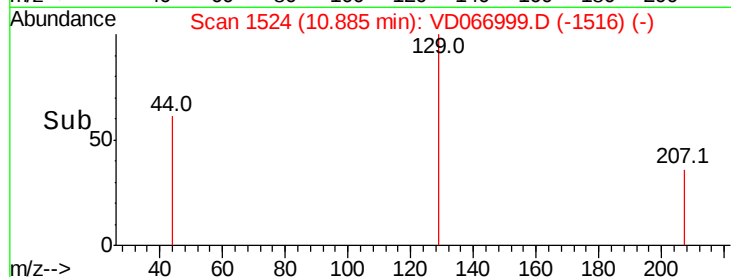
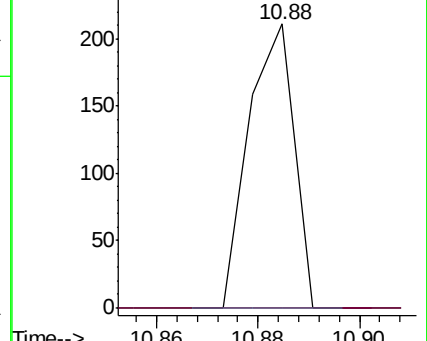
129 100

127 0.0 37.4 112.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.045 ug/l

RT: 11.50 min Scan# 1628

Delta R.T. 0.25 min

Lab File: VD066999.D

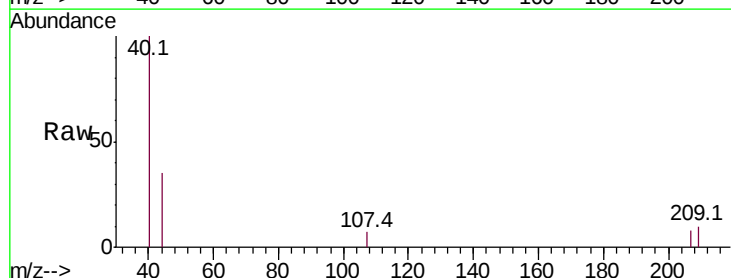
Acq: 01 Oct 2020 18:15

Tgt Ion:107 Resp: 60

Ion Ratio Lower Upper

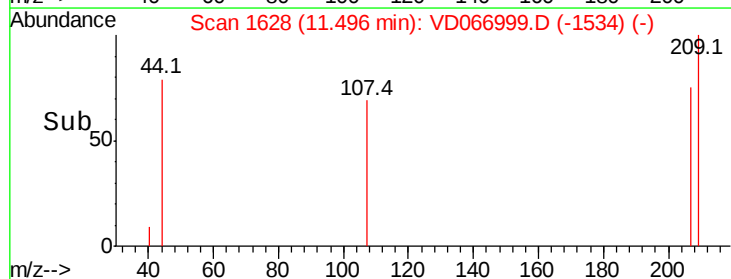
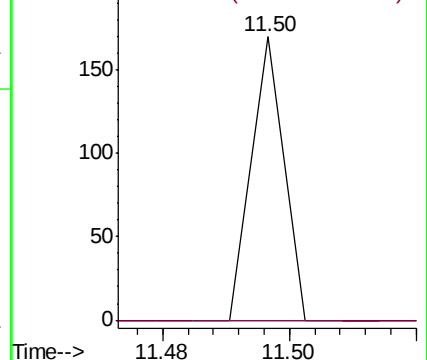
107 100

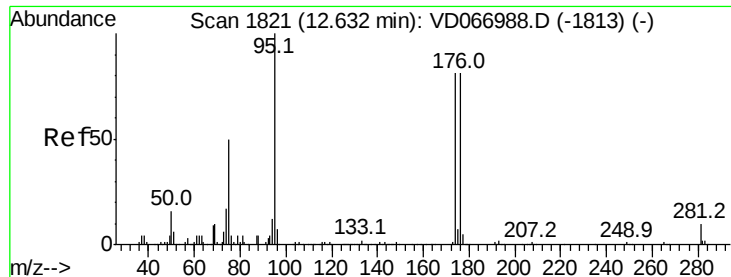
109 0.0 74.0 111.0#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 42.934 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

NB-07-093020

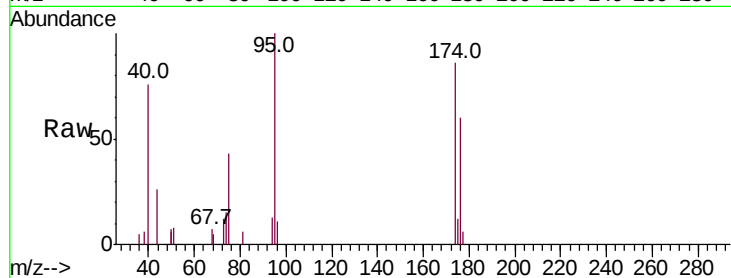
Tot Ion: 95 Resp: 4276

Ion Ratio Lower Upper

95 100

174 92.8 0.0 167.6

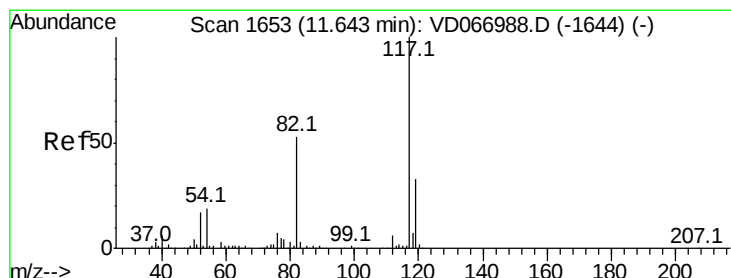
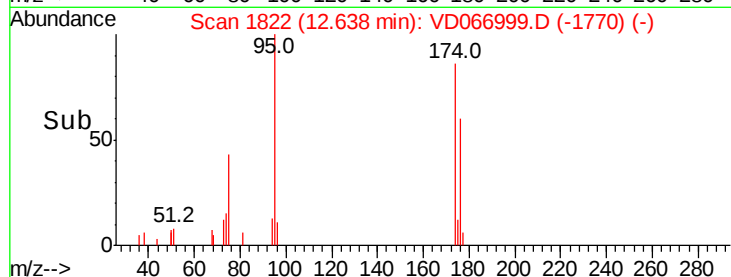
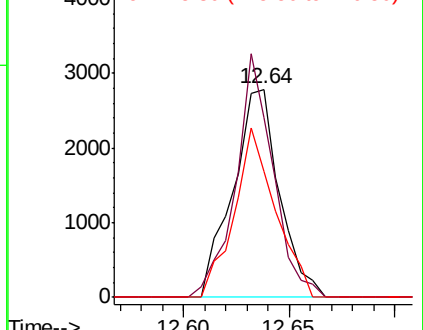
176 71.8 0.0 162.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

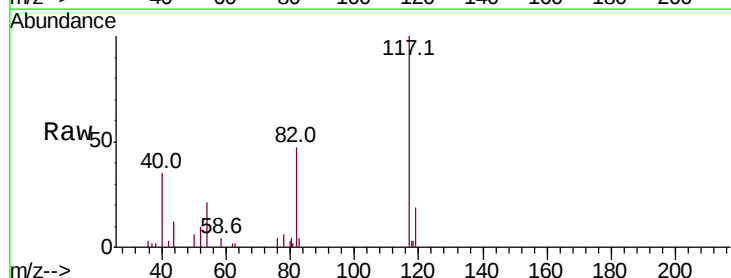
Tgt Ion: 117 Resp: 12632

Ion Ratio Lower Upper

117 100

82 47.4 42.6 63.8

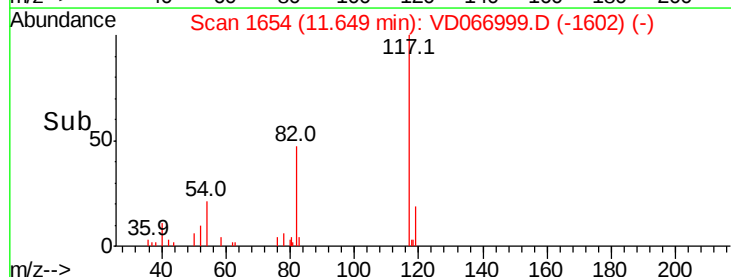
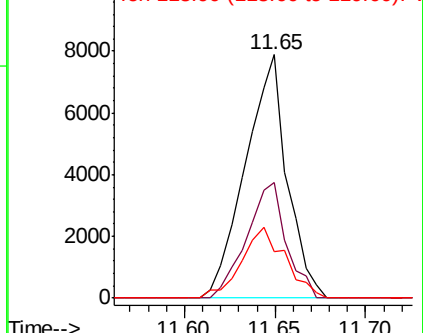
119 19.2 26.3 39.5#

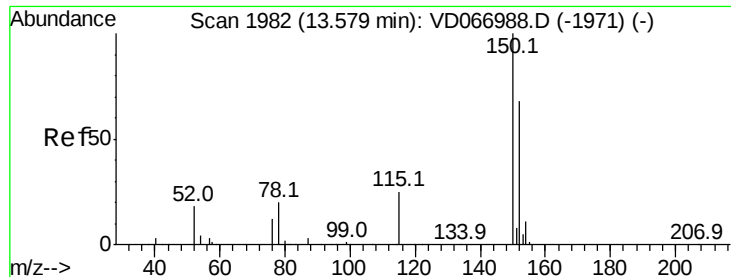


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

NB-07-093020

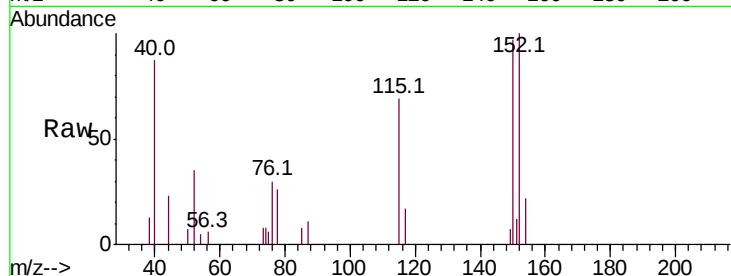
Tot Ion:152 Resp: 4813

Ion Ratio Lower Upper

152 100

115 58.5 29.6 88.8

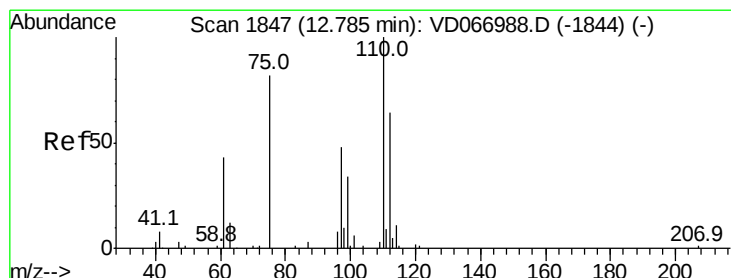
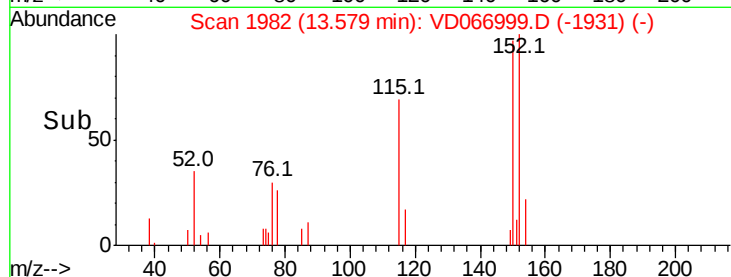
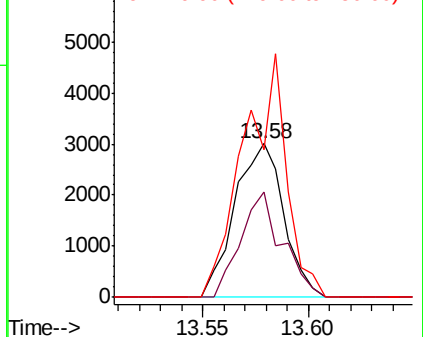
150 139.4 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 54.409 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066999.D

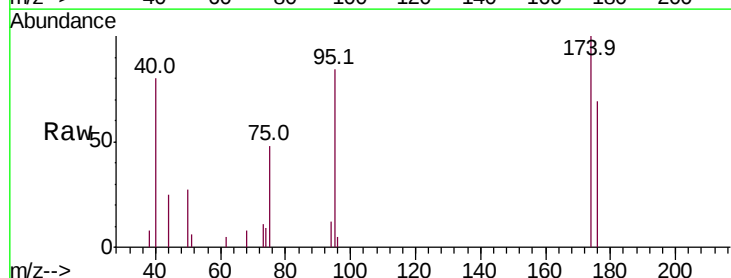
Acq: 01 Oct 2020 18:15

Tgt Ion: 75 Resp: 2281

Ion Ratio Lower Upper

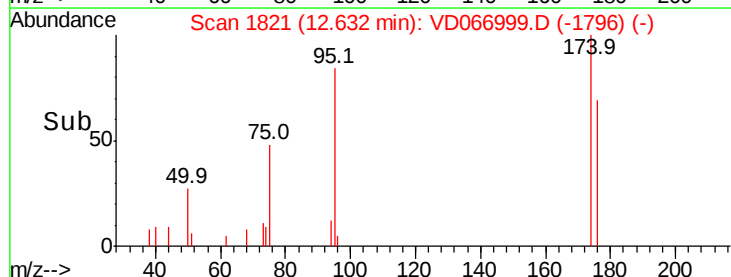
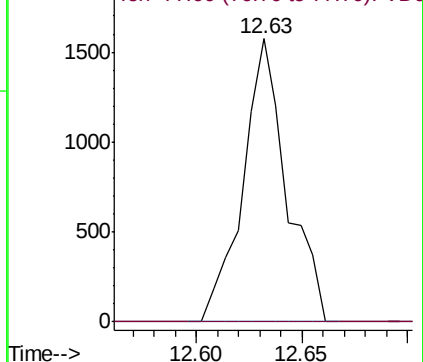
75 100

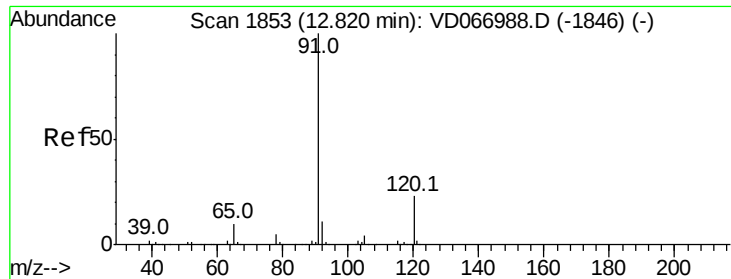
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#78

n-propylbenzene

Concen: 1.170 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

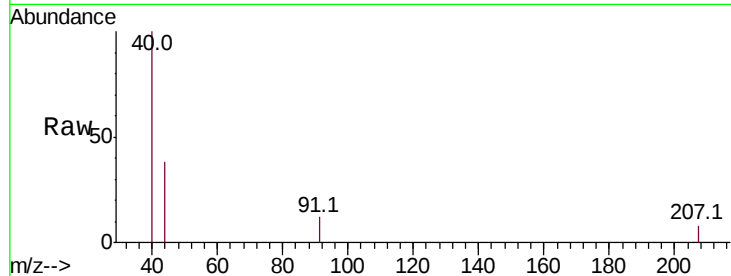
NB-07-093020

Tot Ion: 91 Resp: 452

Ion Ratio Lower Upper

91 100

120 0.0 11.6 34.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

12.82

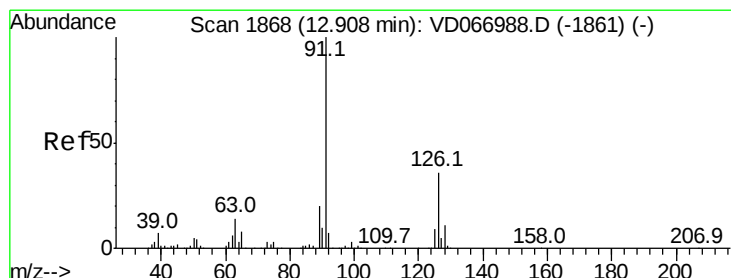
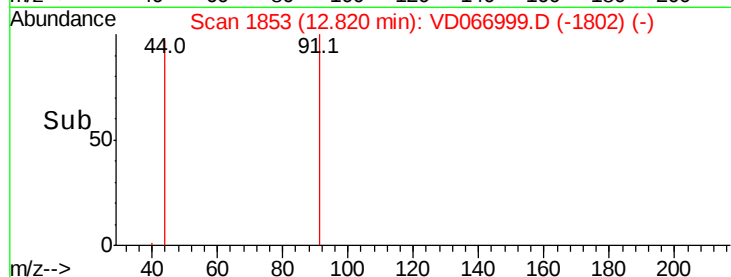
300

200

100

0

Time-->



#79

2-Chlorotoluene

Concen: 1.158 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.10 min

Lab File: VD066999.D

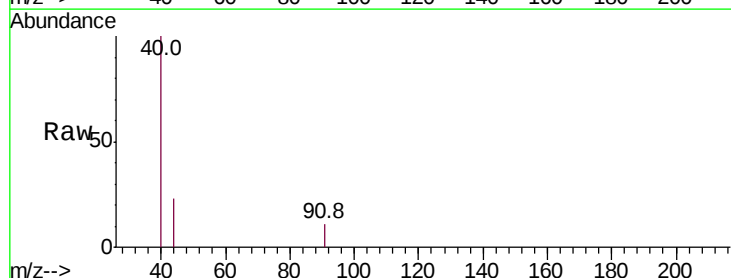
Acq: 01 Oct 2020 18:15

Tgt Ion: 91 Resp: 256

Ion Ratio Lower Upper

91 100

126 21.5 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

13.01

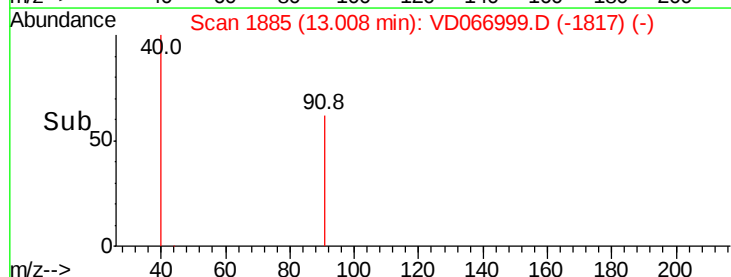
300

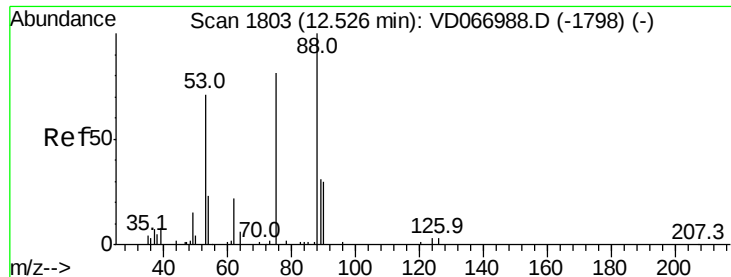
200

100

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 135.650 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD066999.D

Acq: 01 Oct 2020 18:15

Instrument :

MSVOA_D

ClientSampleId :

NB-07-093020

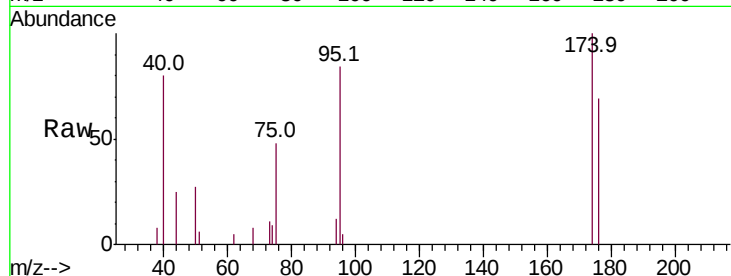
Tot Ion: 75 Resp: 2281

Ion Ratio Lower Upper

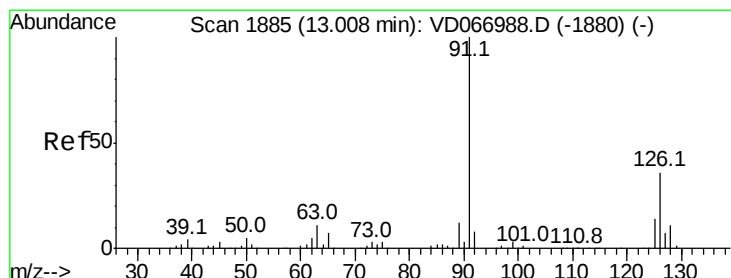
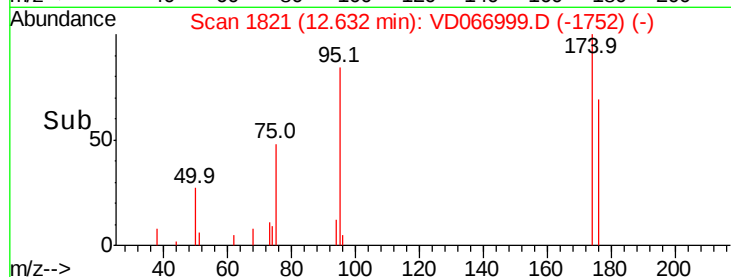
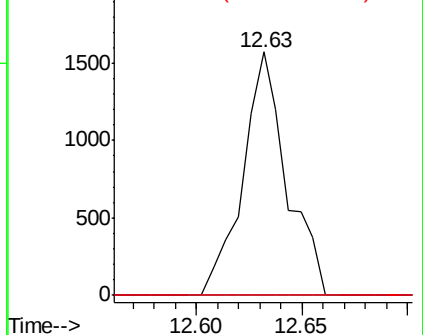
75 100

53 0.0 73.8 110.6#

89 0.0 38.9 58.3#



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



#82

4-Chlorotoluene

Concen: 1.089 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VD066999.D

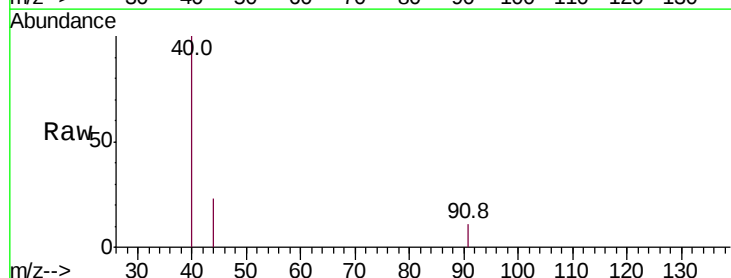
Acq: 01 Oct 2020 18:15

Tgt Ion: 91 Resp: 256

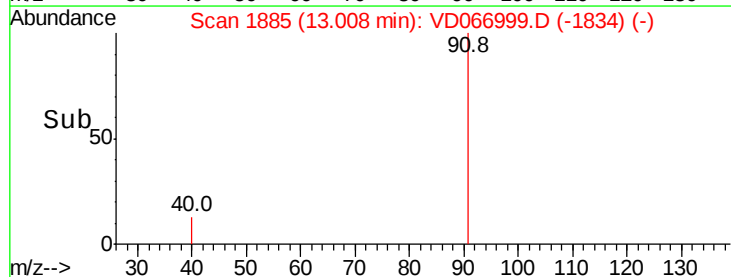
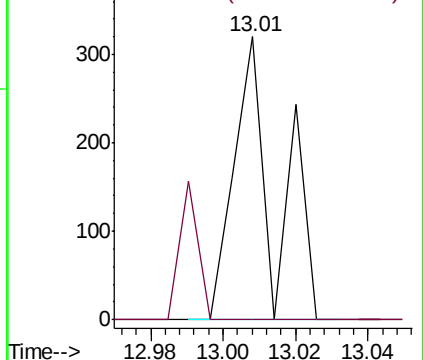
Ion Ratio Lower Upper

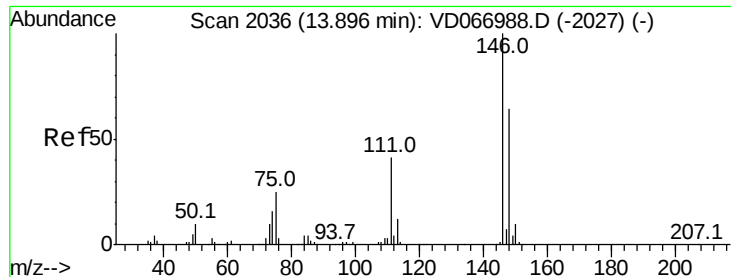
91 100

126 21.5 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.90 (125.60 to 126.60): V

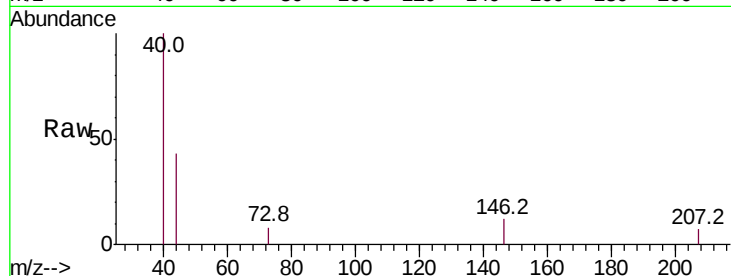




#91
 1,2-Dichlorobenzene
 Concen: 1.274 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD066999.D
 Acq: 01 Oct 2020 18:15

Instrument :
 MSVOA_D
 ClientSampleId :
 NB-07-093020

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.9	62.7#
148	0.0	32.3	96.9#

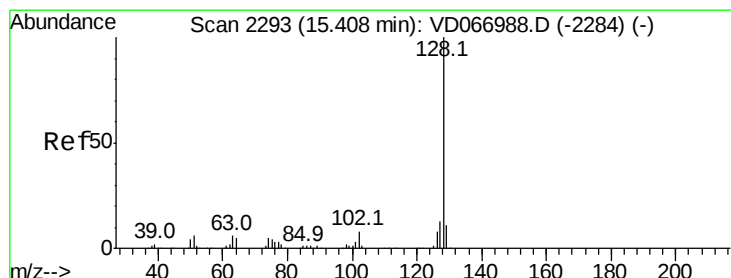
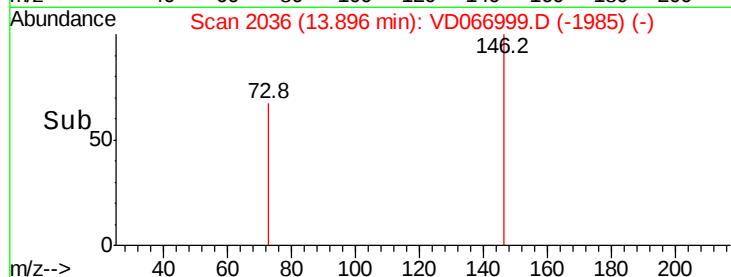
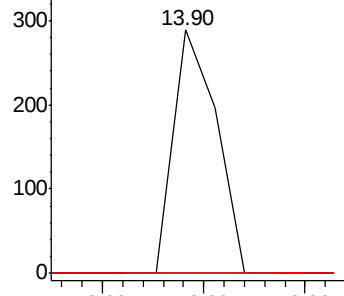


Abundance

Ion 145.90 (145.60 to 146.60): V

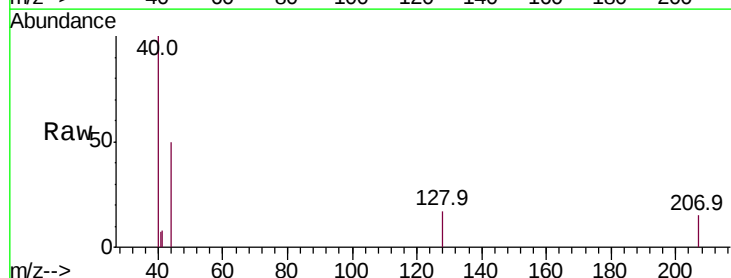
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95
 Naphthalene
 Concen: 1.429 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VD066999.D
 Acq: 01 Oct 2020 18:15

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



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

