

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042920\
 Data File : VN061187.D
 Acq On : 29 Apr 2020 13:04
 Operator : JC/MD
 Sample : L2412-02DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB180-GW-588-590DL

Quant Time: Apr 29 15:15:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 29 08:14:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	99742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	176506	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	174997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	79037	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	79911	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
35) Dibromofluoromethane	7.54	113	52641	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
50) Toluene-d8	10.06	98	223532	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
62) 4-Bromofluorobenzene	12.37	95	85476	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	

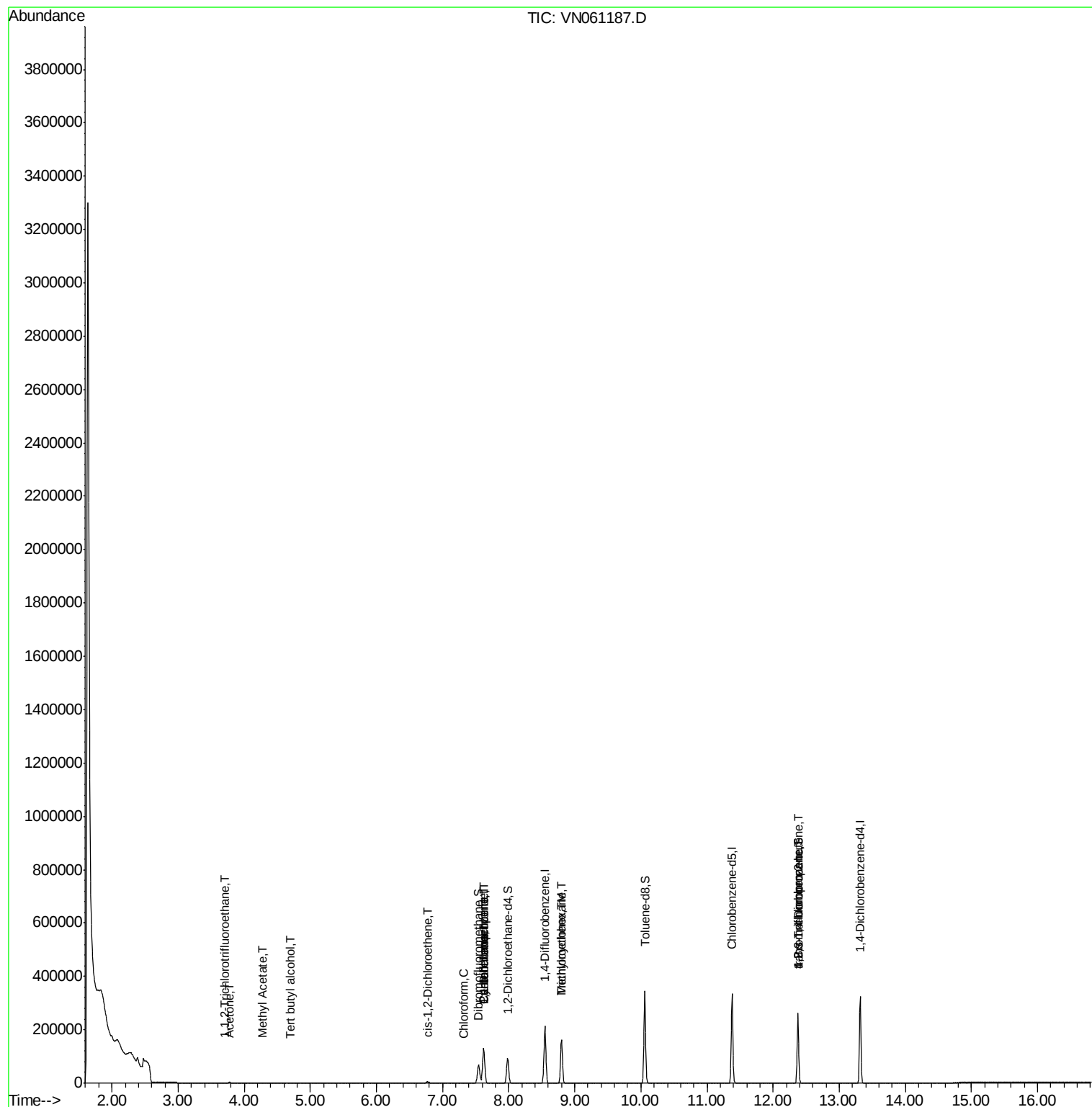
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.71	101	388	0.367	ug/l #	32
11) Tert butyl alcohol	4.70	59	132	0.624	ug/l #	72
16) Acetone	3.78	43	3978	1.015	ug/l	93
18) Methyl Acetate	4.28	43	2755	2.043	ug/l #	60
27) cis-1,2-Dichloroethene	6.77	96	814	0.605	ug/l	55
30) Chloroform	7.32	83	662	0.276	ug/l #	80
31) Cyclohexane	7.63	56	2726	1.187	ug/l #	26
36) 1,1-Dichloropropene	7.62	75	8903	5.039	ug/l #	51
38) Carbon Tetrachloride	7.62	117	10714	8.629	ug/l #	17
39) Methylcyclohexane	8.79	83	650	0.328	ug/l #	1
44) Trichloroethene	8.80	130	56487	39.695	ug/l	98
76) 1,2,3-Trichloropropane	12.37	75	48200	28.926	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	48200	73.457	ug/l #	8

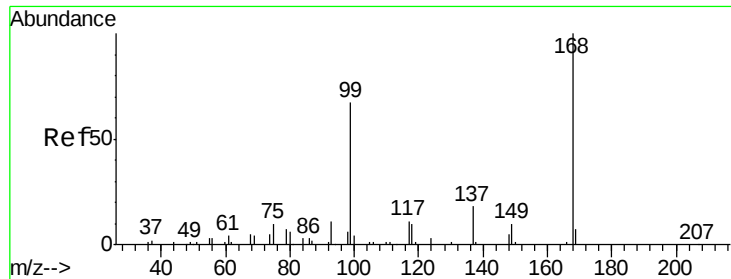
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 29 15:15:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

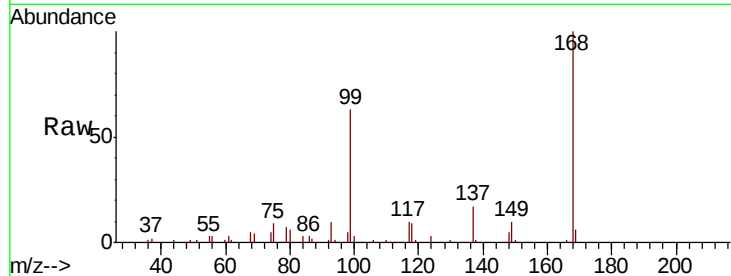
BP-VPB180-GW-588-590DL

Tot Ion:168 Resp: 99742

Ion Ratio Lower Upper

168 100

99 62.8 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

40000

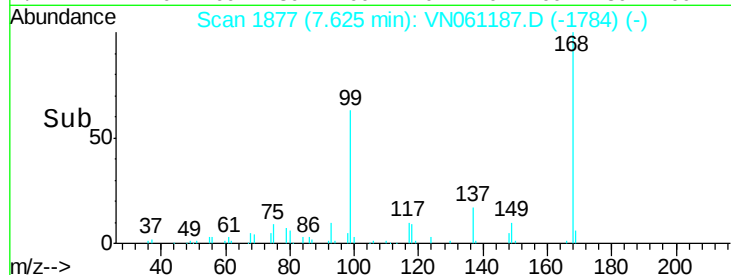
30000

20000

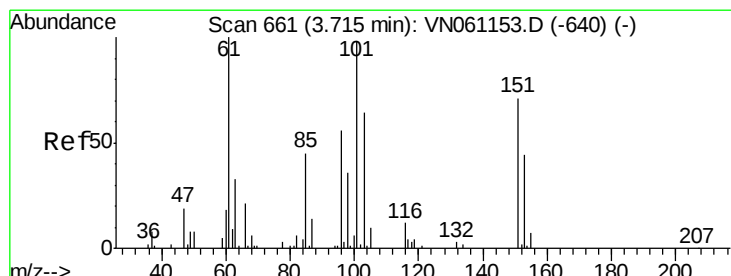
10000

0

Time-->



Scan 1877 (7.625 min): VN061187.D (-1784) (-)



Scan 661 (3.715 min): VN061153.D (-640) (-)

#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.367 ug/l

RT: 3.71 min Scan# 659

Delta R.T. -0.01 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

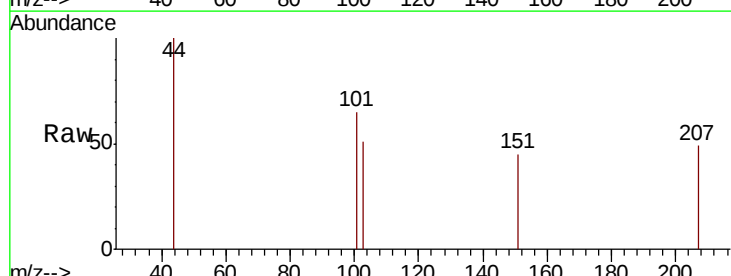
Tgt Ion:101 Resp: 388

Ion Ratio Lower Upper

101 100

85 0.0 37.2 55.8#

151 16.0 57.7 86.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

3.71

300

250

200

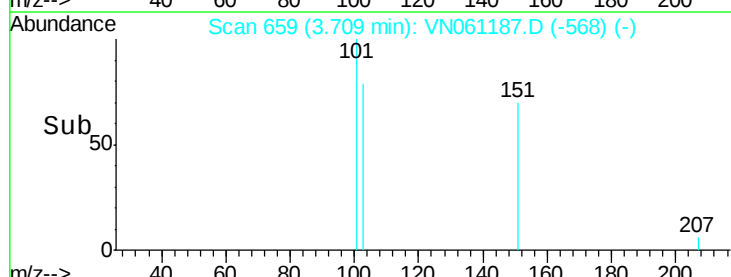
150

100

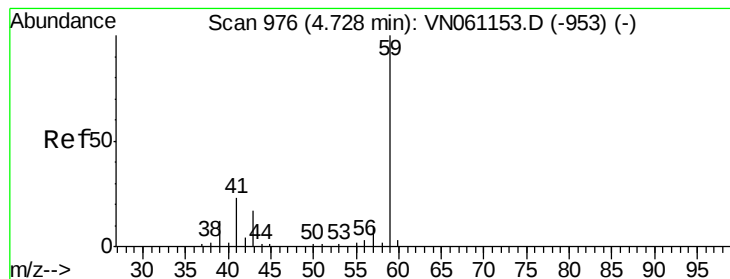
50

0

Time-->



Scan 659 (3.709 min): VN061187.D (-568) (-)

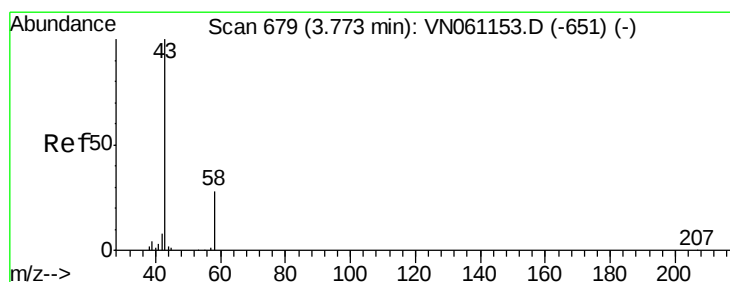
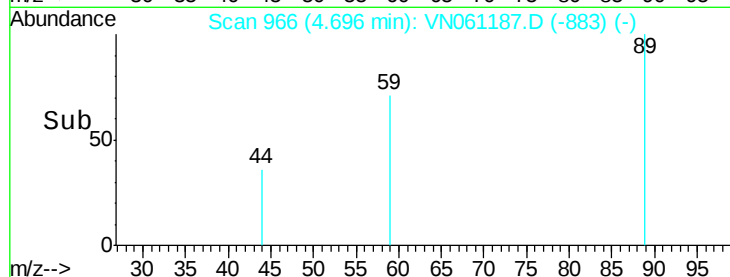
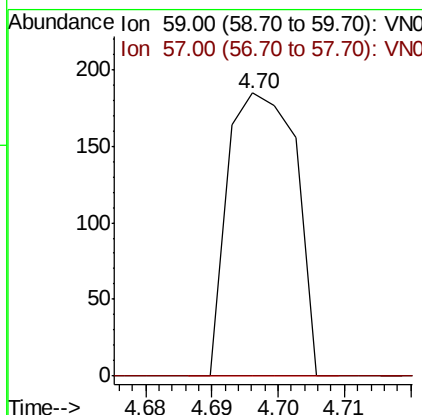
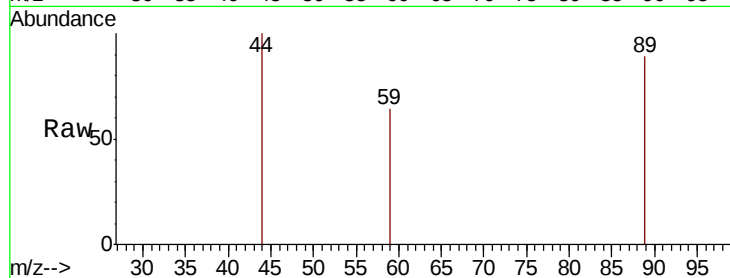


#11

Tert butyl alcohol
 Concen: 0.624 ug/l
 RT: 4.70 min Scan# 966
 Delta R.T. -0.03 min
 Lab File: VN061187.D
 Acq: 29 Apr 2020 13:04

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB180-GW-588-590DL

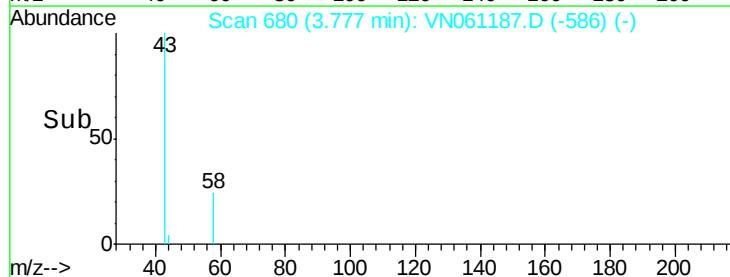
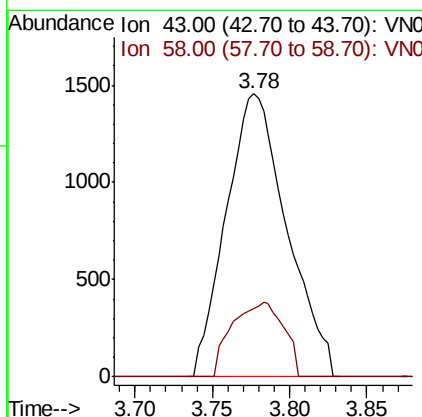
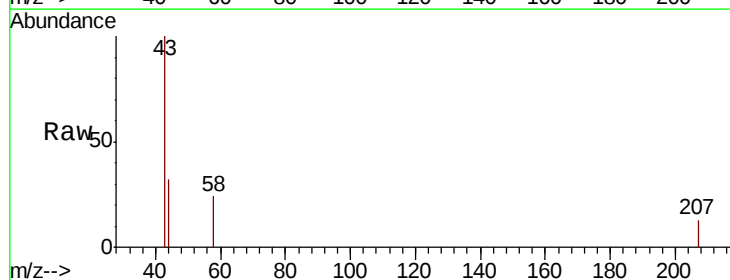
Tot Ion: 59 Resp: 132
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

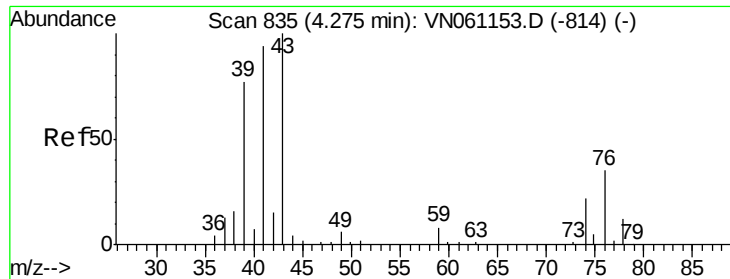


#16

Acetone
 Concen: 1.015 ug/l
 RT: 3.78 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN061187.D
 Acq: 29 Apr 2020 13:04

Tgt Ion: 43 Resp: 3978
 Ion Ratio Lower Upper
 43 100
 58 24.1 22.2 33.2

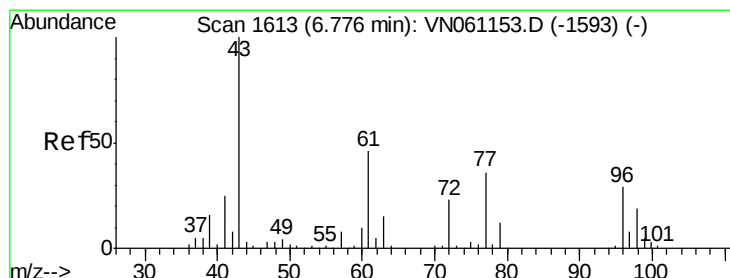
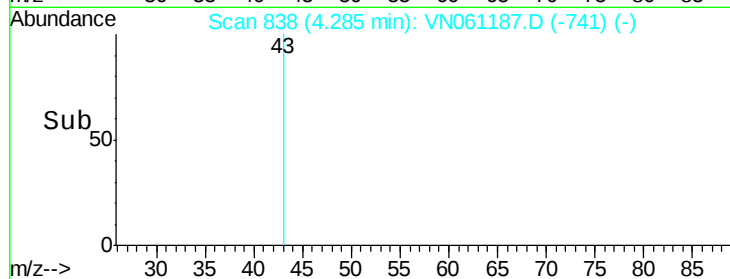
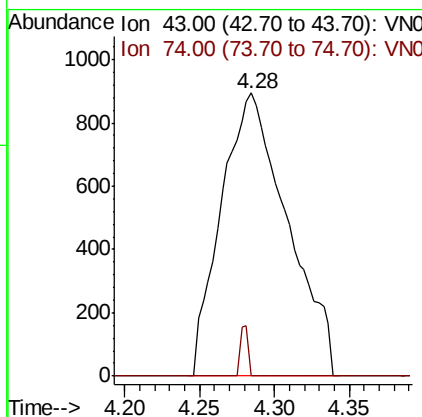
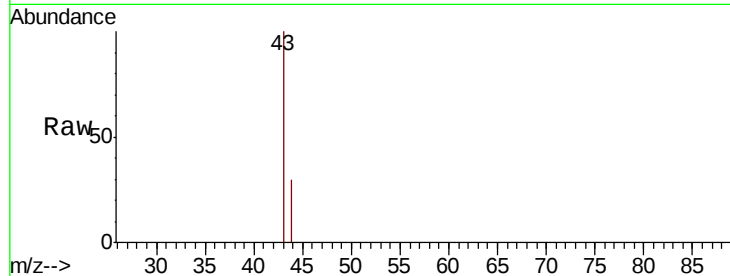




#18
Methvl Acetate
Concen: 2.043 ug/l
RT: 4.28 min Scan# 838
Delta R.T. 0.01 min
Lab File: VN061187.D
Acq: 29 Apr 2020 13:04

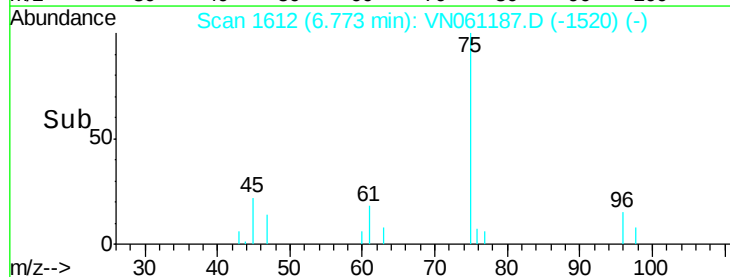
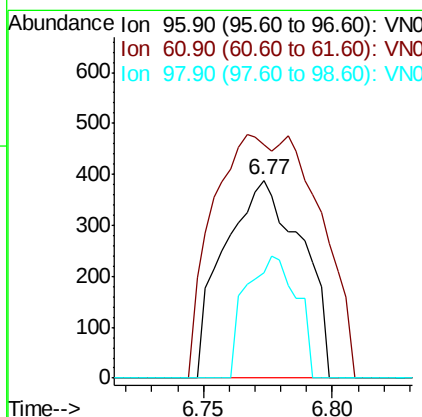
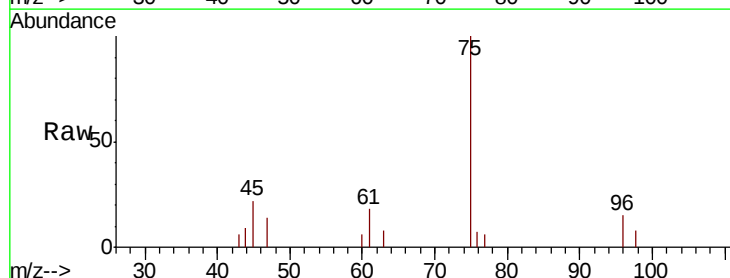
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB180-GW-588-590DL

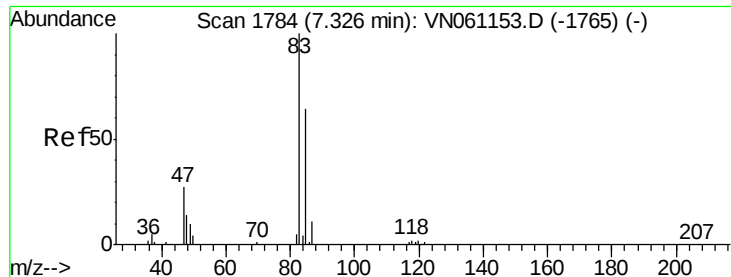
Tot Ion: 43 Resp: 2755
Ion Ratio Lower Upper
43 100
74 2.2 17.0 25.4#



#27
cis-1,2-Dichloroethene
Concen: 0.605 ug/l
RT: 6.77 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VN061187.D
Acq: 29 Apr 2020 13:04

Tgt Ion: 96 Resp: 814
Ion Ratio Lower Upper
96 100
61 93.4 0.0 322.0
98 40.7 0.0 129.6

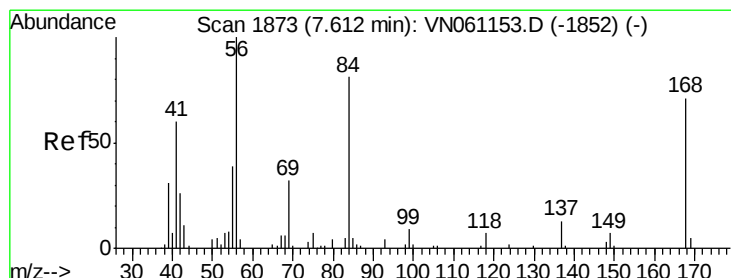
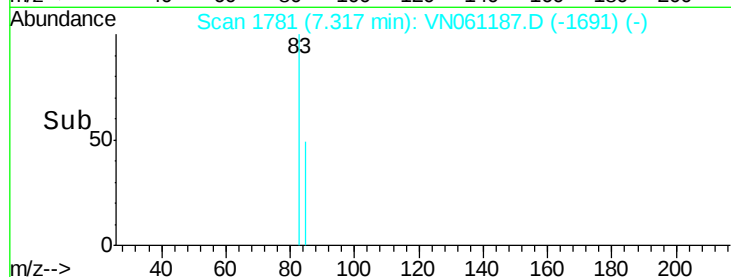
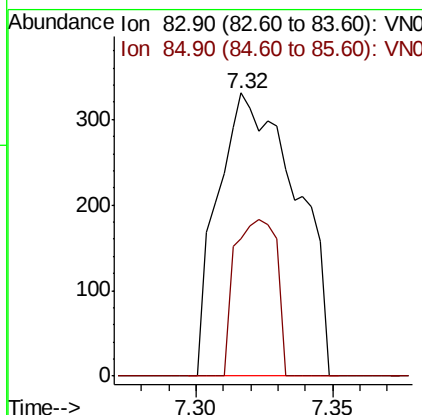
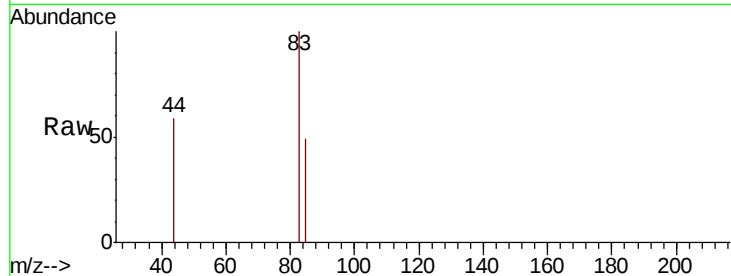




#30
Chloroform
Concen: 0.276 ug/l
RT: 7.32 min Scan# 1781
Delta R.T. -0.01 min
Lab File: VN061187.D
Acq: 29 Apr 2020 13:04

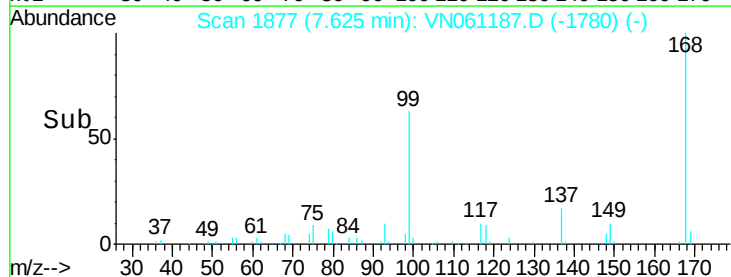
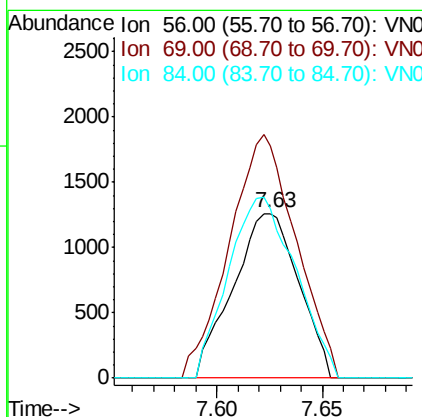
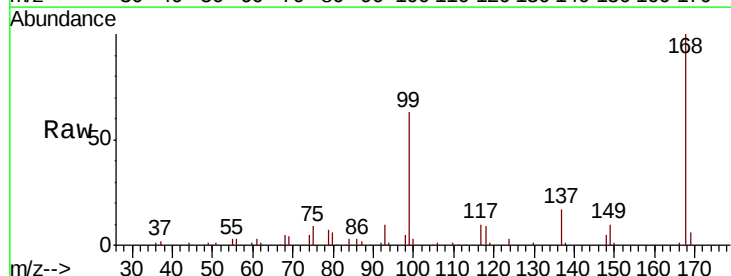
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB180-GW-588-590DL

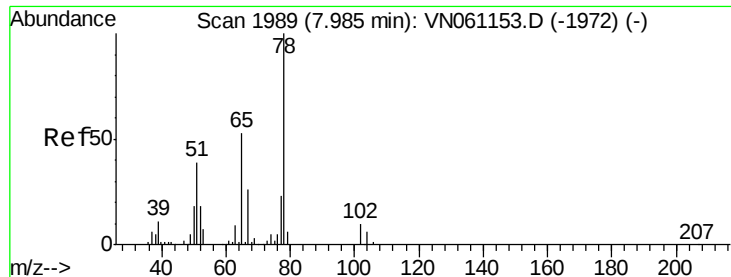
Tot Ion: 83 Resp: 662
Ion Ratio Lower Upper
83 100
85 48.6 51.1 76.7#



#31
Cyclohexane
Concen: 1.187 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061187.D
Acq: 29 Apr 2020 13:04

Tgt Ion: 56 Resp: 2726
Ion Ratio Lower Upper
56 100
69 141.3 25.7 38.5#
84 103.2 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 50.633 ug/l

RT: 7.99 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

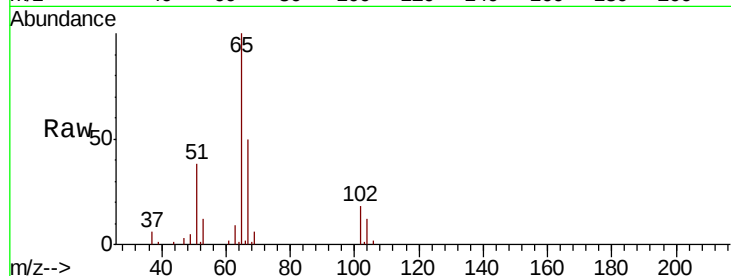
BP-VPB180-GW-588-590DL

Tot Ion: 65 Resp: 79911

Ion Ratio Lower Upper

65 100

67 50.6 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN061187.D (-1896) (-)

Ion 66.90 (66.60 to 67.60): VN061187.D (-1896) (-)

7.99

40000

30000

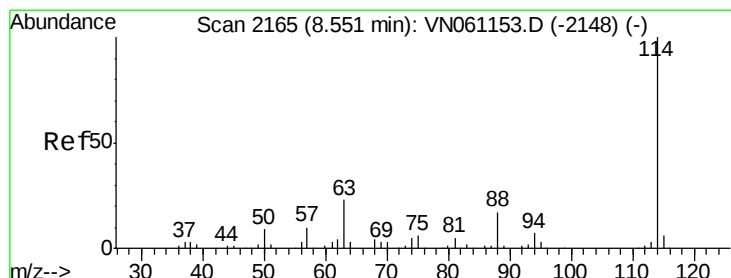
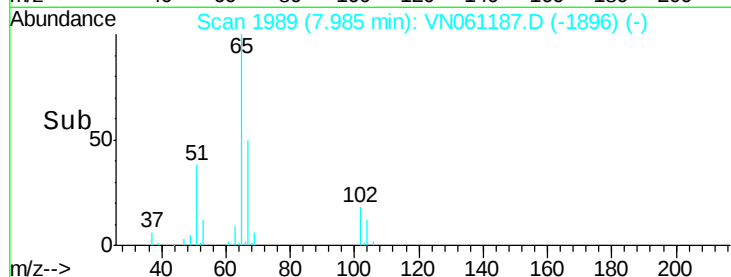
20000

10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

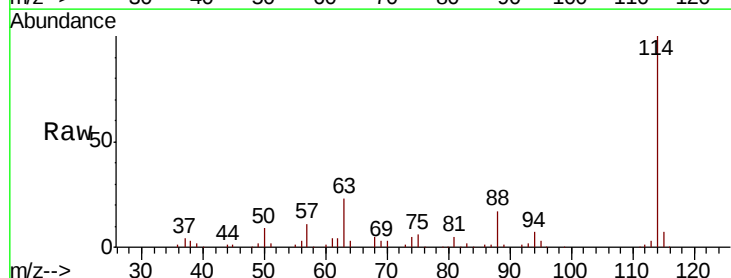
Tgt Ion: 114 Resp: 176506

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.6

88 16.6 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VN061187.D (-2072) (-)

Ion 63.00 (62.70 to 63.70): VN061187.D (-2072) (-)

Ion 87.90 (87.60 to 88.60): VN061187.D (-2072) (-)

8.55

100000

80000

60000

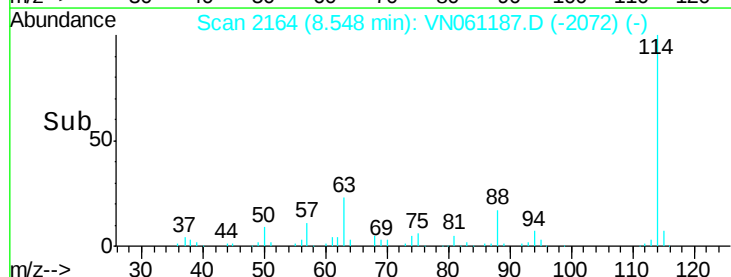
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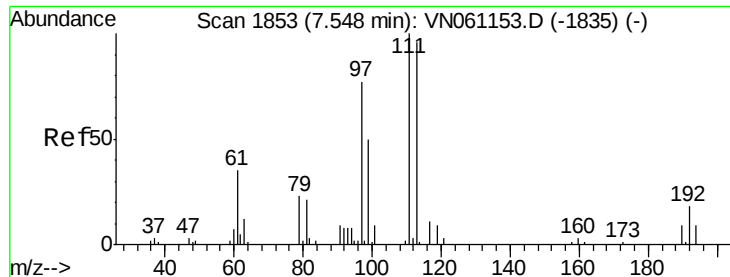
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Time-->

8.50 8.60

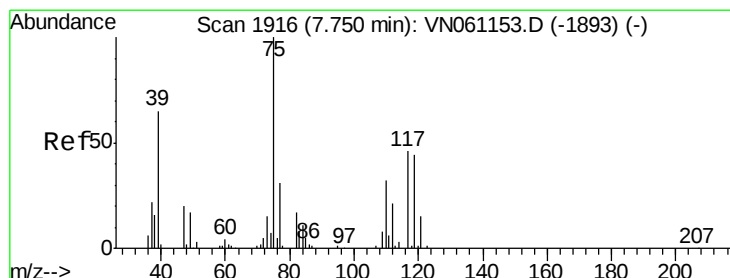
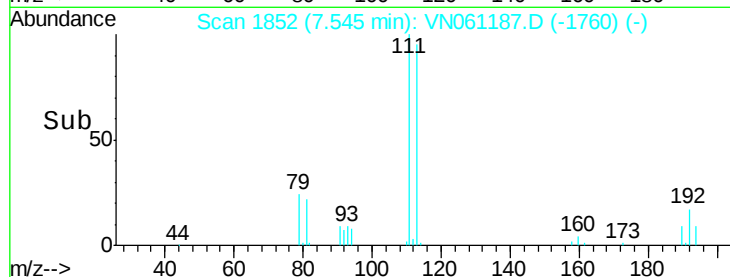
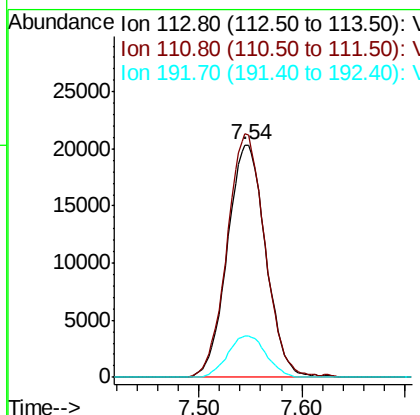
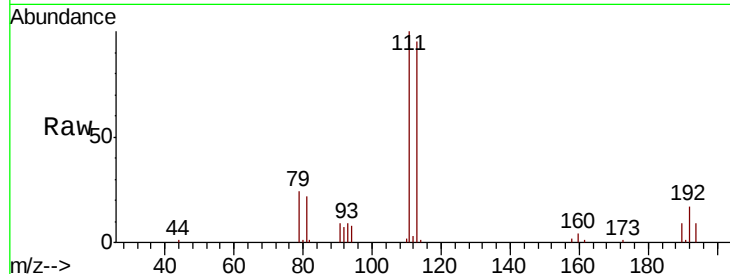




#35
 Dibromofluoromethane
 Concen: 50.436 ug/l
 RT: 7.54 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VN061187.D
 Acq: 29 Apr 2020 13:04

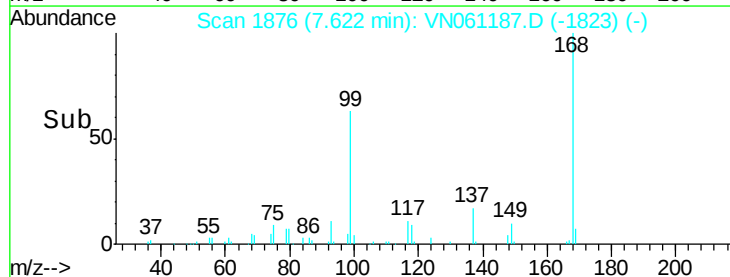
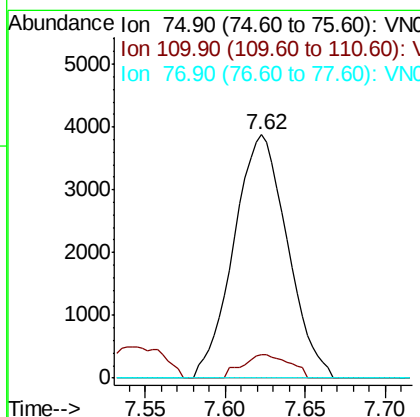
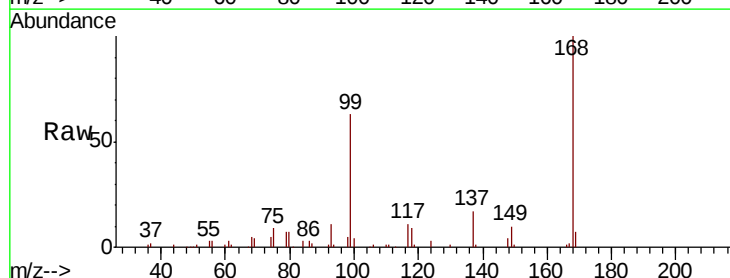
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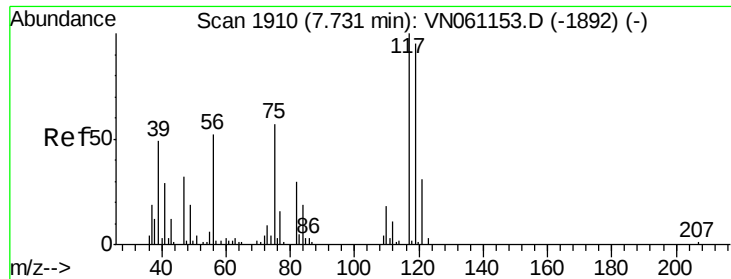
Tot Ion:113 Resp: 52641
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.9 124.3
 192 17.8 14.7 22.1



#36
 1,1-Dichloropropene
 Concen: 5.039 ug/l
 RT: 7.62 min Scan# 1876
 Delta R.T. -0.13 min
 Lab File: VN061187.D
 Acq: 29 Apr 2020 13:04

Tgt Ion: 75 Resp: 8903
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.0 48.0#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 8.629 ug/l

RT: 7.62 min Scan# 1875

Delta R.T. -0.11 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590DL

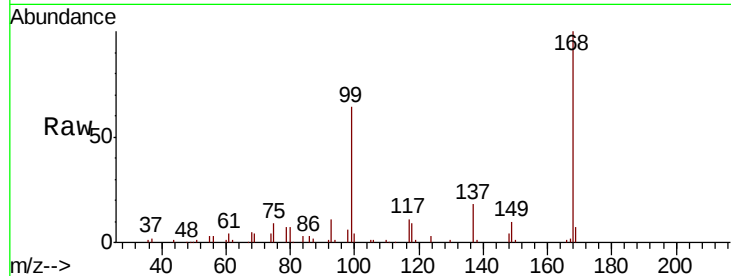
Tot Ion:117 Resp: 10714

Ion Ratio Lower Upper

117 100

119 5.6 75.8 113.6#

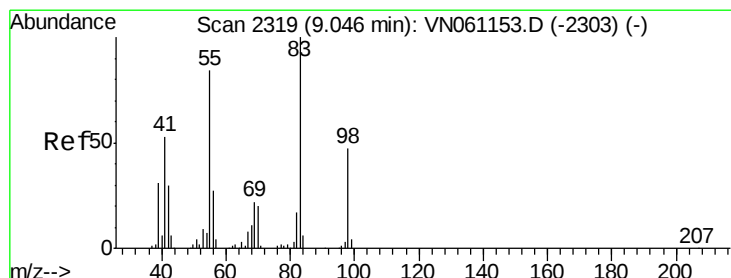
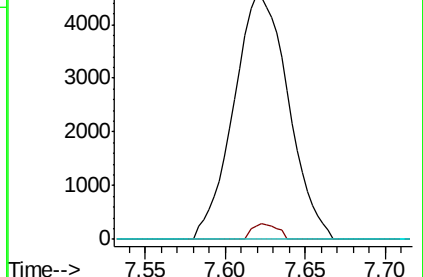
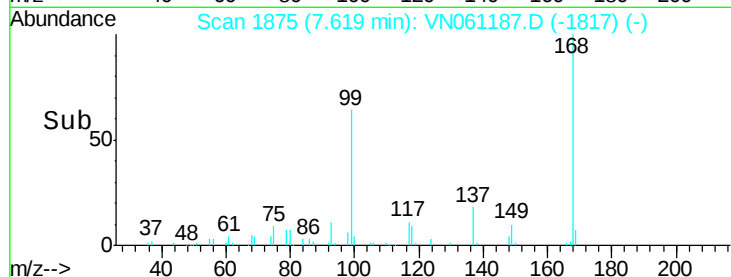
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.328 ug/l

RT: 8.79 min Scan# 2240

Delta R.T. -0.25 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

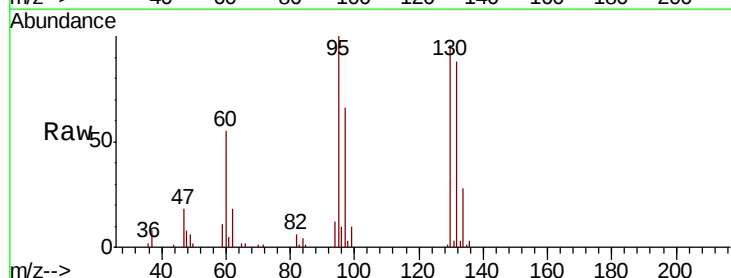
Tgt Ion: 83 Resp: 650

Ion Ratio Lower Upper

83 100

55 0.0 67.3 100.9#

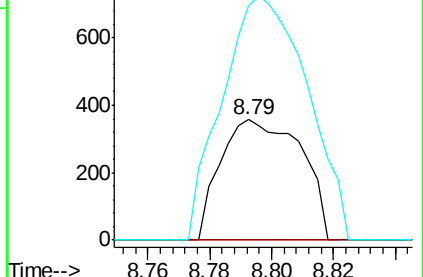
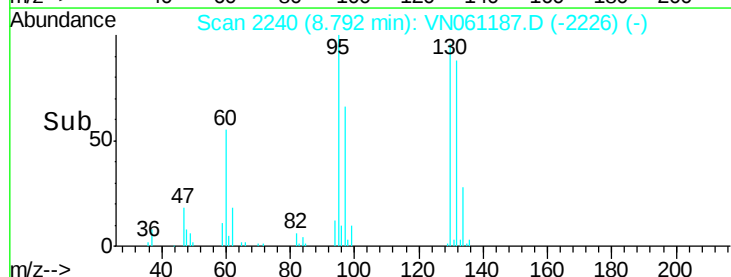
98 195.0 37.7 56.5#

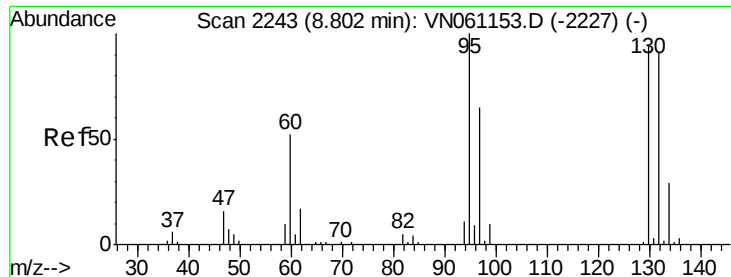


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 39.695 ug/l

RT: 8.80 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

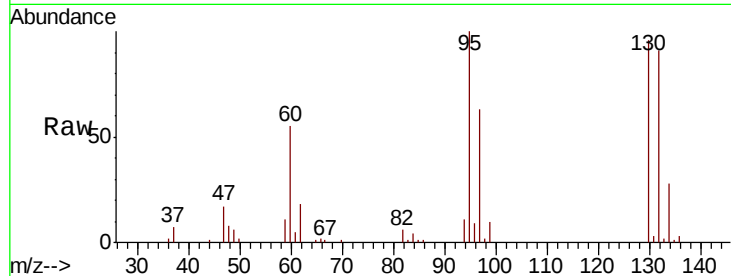
BP-VPB180-GW-588-590DL

Tot Ion:130 Resp: 56487

Ion Ratio Lower Upper

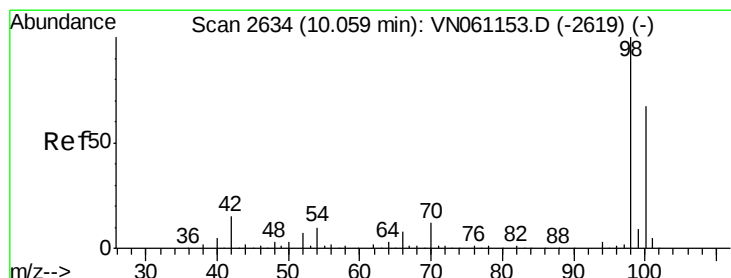
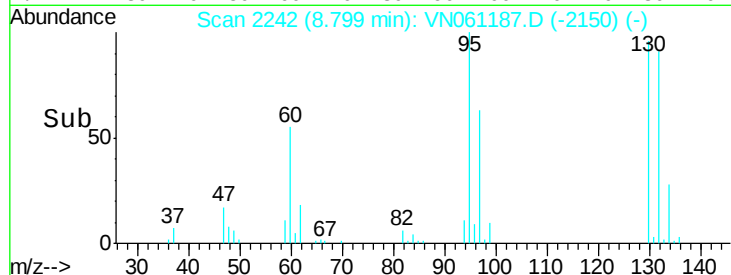
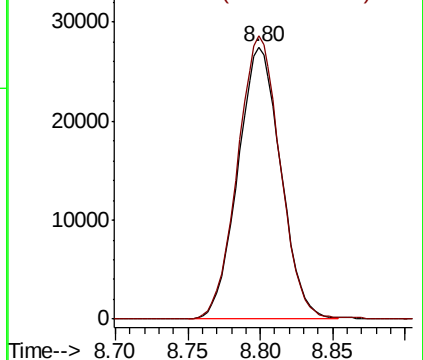
130 100

95 103.9 0.0 212.4



Abundance Ion 129.80 (129.50 to 130.50): VN061187.D (-2150) (-)

Ion 94.90 (94.60 to 95.60): VN061187.D (-2150) (-)



#50

Toluene-d8

Concen: 52.537 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061187.D

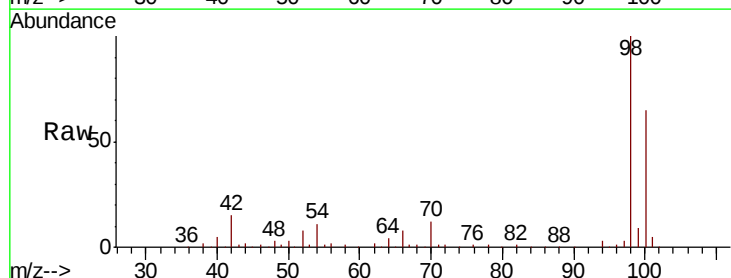
Acq: 29 Apr 2020 13:04

Tgt Ion: 98 Resp: 223532

Ion Ratio Lower Upper

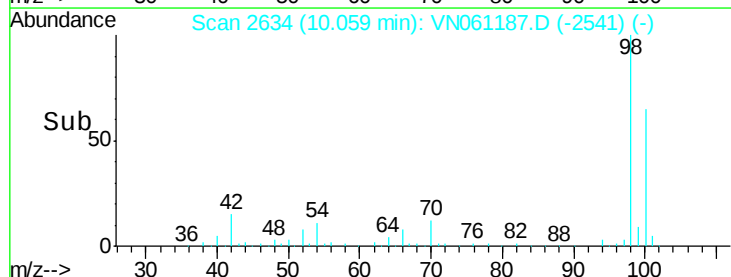
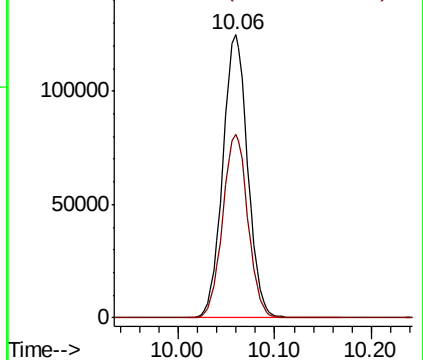
98 100

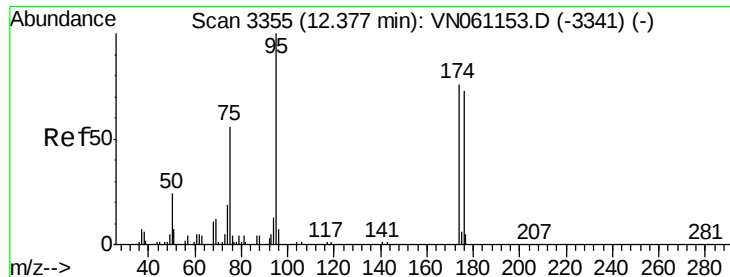
100 65.6 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061187.D (-2541) (-)

Ion 100.00 (99.70 to 100.70): VN061187.D (-2541) (-)





#62

4-Bromofluorobenzene

Concen: 53.385 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590DL

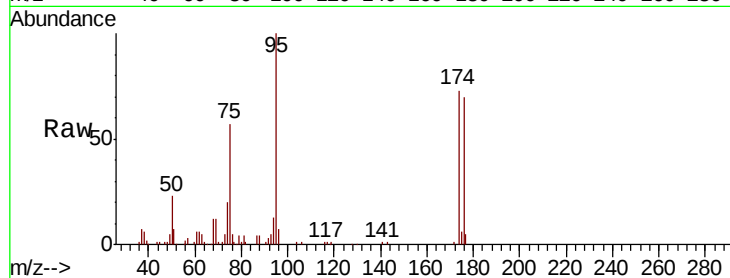
Tot Ion: 95 Resp: 85476

Ion Ratio Lower Upper

95 100

174 73.8 0.0 149.4

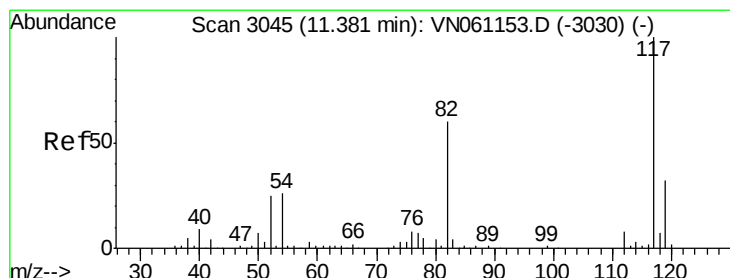
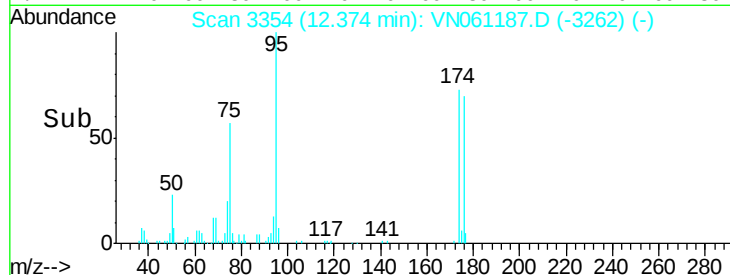
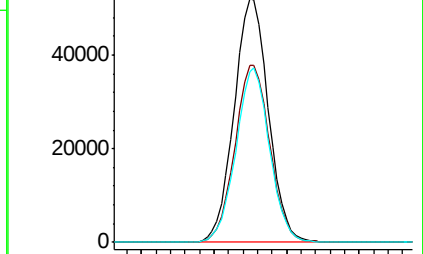
176 70.1 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061187.D (-3262) (-)

Ion 173.80 (173.50 to 174.50): VN061187.D (-3262) (-)

Ion 175.80 (175.50 to 176.50): VN061187.D (-3262) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

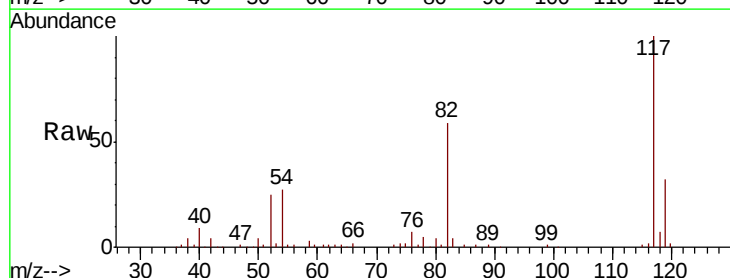
Tgt Ion: 117 Resp: 174997

Ion Ratio Lower Upper

117 100

82 58.8 47.8 71.8

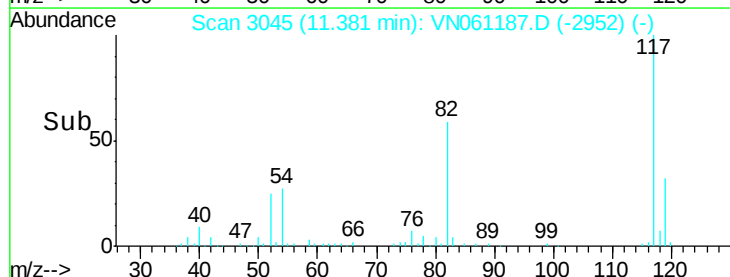
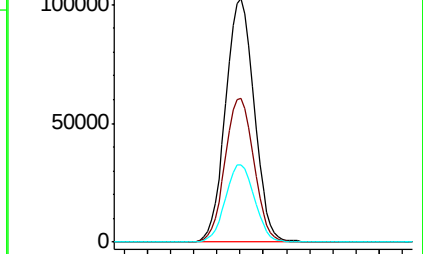
119 31.8 25.8 38.6

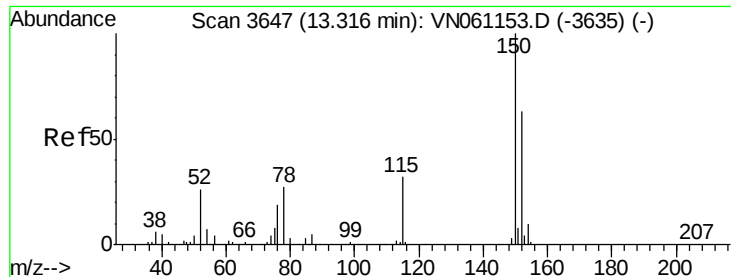


Abundance Ion 116.90 (116.60 to 117.60): VN061187.D (-2952) (-)

Ion 82.00 (81.70 to 82.70): VN061187.D (-2952) (-)

Ion 118.90 (118.60 to 119.60): VN061187.D (-2952) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3647

Delta R.T. 0.00 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590DL

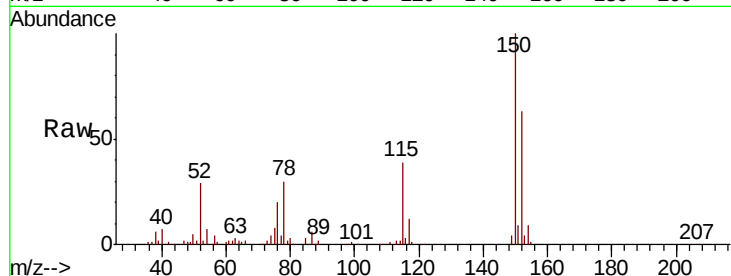
Tot Ion:152 Resp: 79037

Ion Ratio Lower Upper

152 100

115 62.5 31.0 93.0

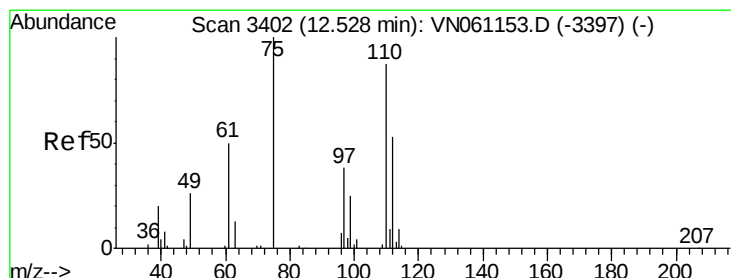
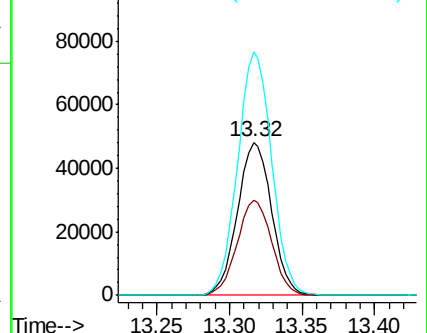
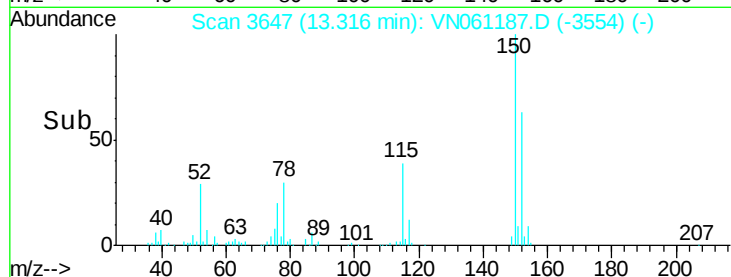
150 158.6 0.0 351.8



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: 28.926 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.15 min

Lab File: VN061187.D

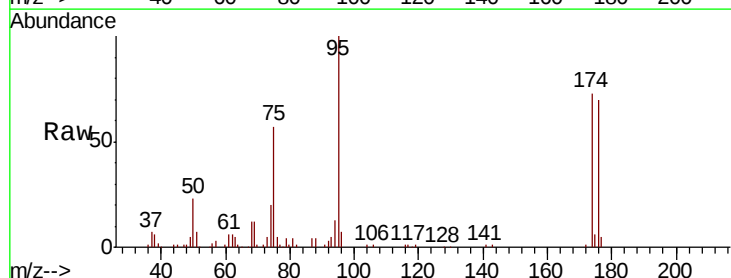
Acq: 29 Apr 2020 13:04

Tgt Ion: 75 Resp: 48200

Ion Ratio Lower Upper

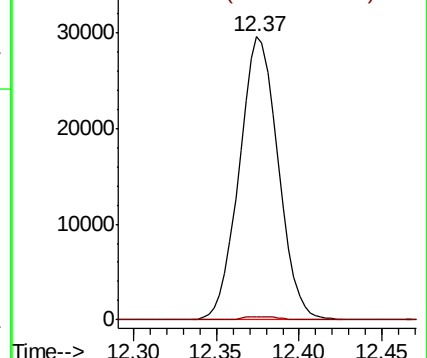
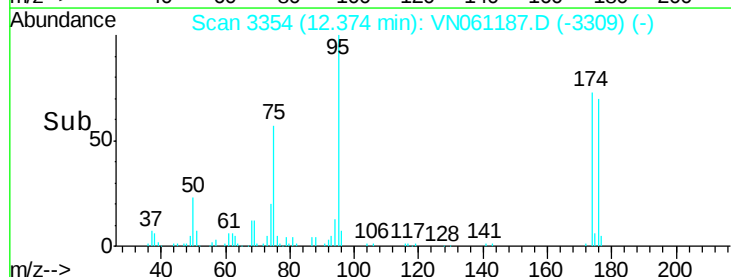
75 100

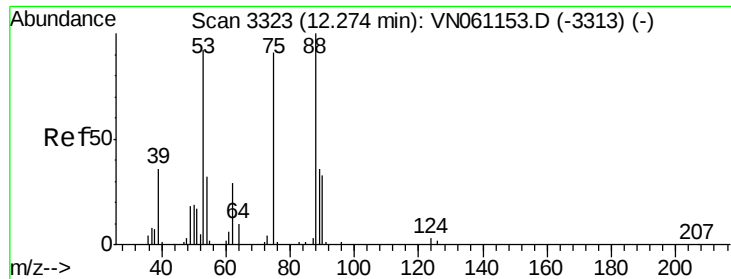
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.457 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.10 min

Lab File: VN061187.D

Acq: 29 Apr 2020 13:04

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB180-GW-588-590DL

Tot Ion: 75 Resp: 48200

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#

