

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054518.D
 Acq On : 21 Mar 2019 18:27
 Operator : JC/SP
 Sample : K1965-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-DUP05-20190315

Quant Time: Mar 22 10:16:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	465574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	841231	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	874048	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	317533	50.00	ug/l	0.00

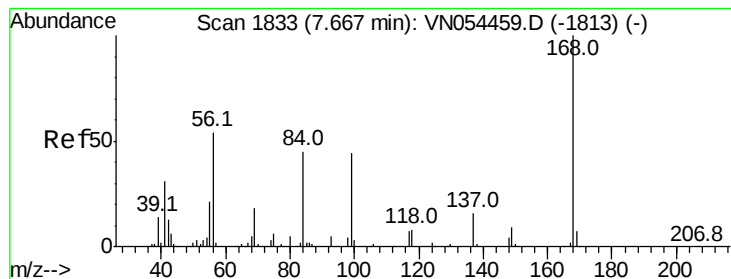
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	316700	54.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.38%	
35) Dibromofluoromethane	7.59	113	264419	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
50) Toluene-d8	10.09	98	1086012	53.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.60%	
62) 4-Bromofluorobenzene	12.40	95	398382	57.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.92%	

Target Compounds

						Qvalue
7) Trichlorofluoromethane	3.02	101	9517	1.289	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	1403	0.323	ug/l #	51
12) 1,1-Dichloroethene	3.73	96	3373	0.751	ug/l	89
13) Acrolein	3.62	56	295	0.610	ug/l	96
16) Acetone	3.82	43	3420	1.964	ug/l #	81
18) Methyl Acetate	4.33	43	928	0.239	ug/l #	79
19) Methyl tert-butyl Ether	5.06	73	15075	1.150	ug/l	97
24) 1,1-Dichloroethane	5.85	63	5972	0.665	ug/l #	83
31) Cyclohexane	7.67	56	8998	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	32625	4.148	ug/l #	48
38) Carbon Tetrachloride	7.67	117	41898	5.481	ug/l #	16
43) Isopropyl Acetate	8.25	43	2020	0.214	ug/l #	60
44) Trichloroethene	8.84	130	23028	3.683	ug/l	88
53) t-1,3-Dichloropropene	10.11	75	65	2.240	ug/l #	1
60) Dibromochloromethane	10.63	129	15717	2.970	ug/l #	11
64) Tetrachloroethene	10.63	164	19598	2.703	ug/l	95
71) Bromoform	12.38	173	101	2.242	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	203012	40.290	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	203012	133.255	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054518.D

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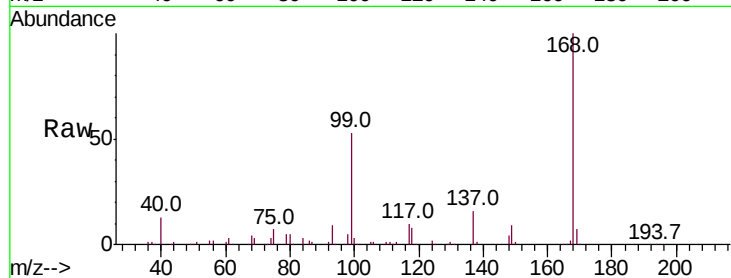
BP-DUP05-20190315

Tot Ion:168 Resp: 465574

Ion Ratio Lower Upper

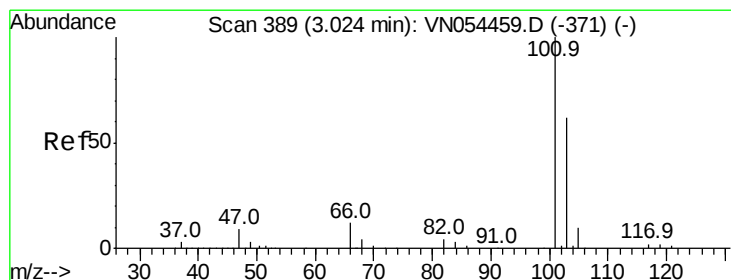
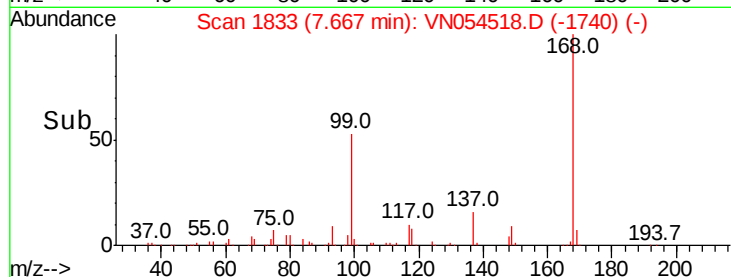
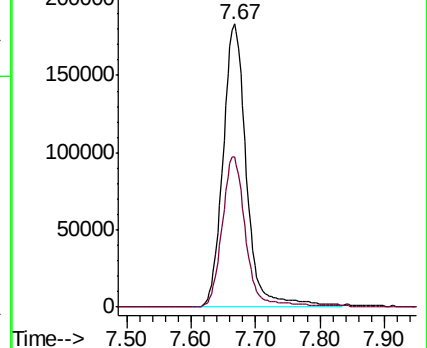
168 100

99 53.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#7

Trichlorofluoromethane

Concen: 1.289 ug/l

RT: 3.02 min Scan# 389

Delta R.T. -0.00 min

Lab File: VN054518.D

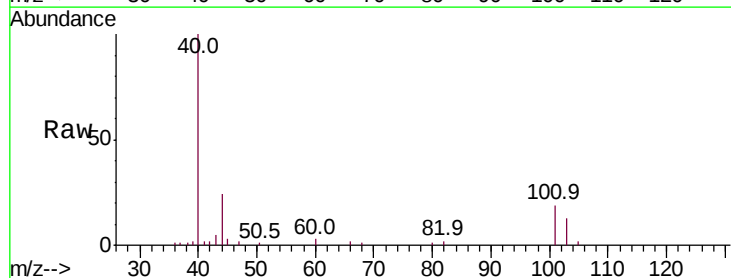
Acq: 21 Mar 2019 18:27

Tgt Ion:101 Resp: 9517

Ion Ratio Lower Upper

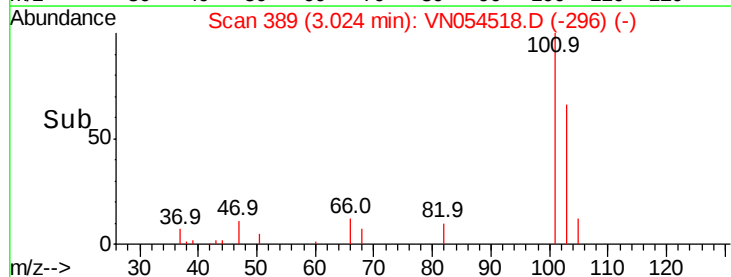
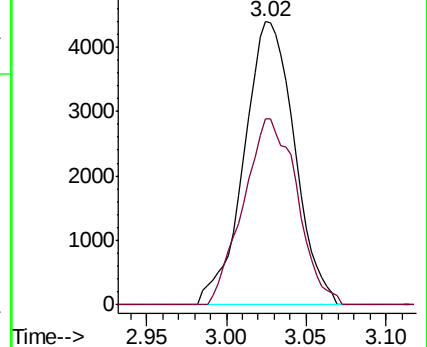
101 100

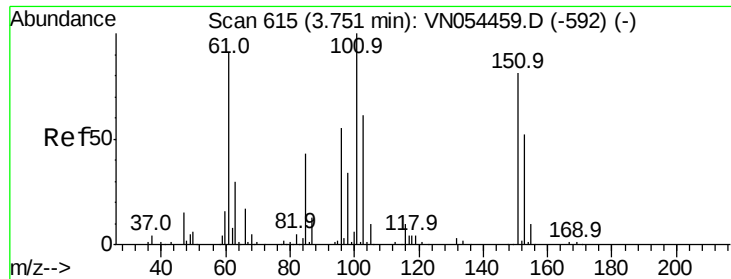
103 65.8 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.323 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

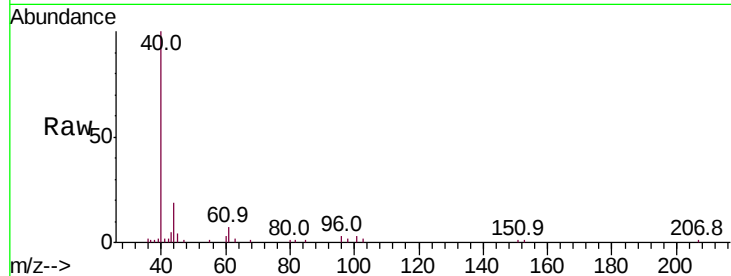
Tot Ion:101 Resp: 1403

Ion Ratio Lower Upper

101 100

85 25.5 32.4 48.6#

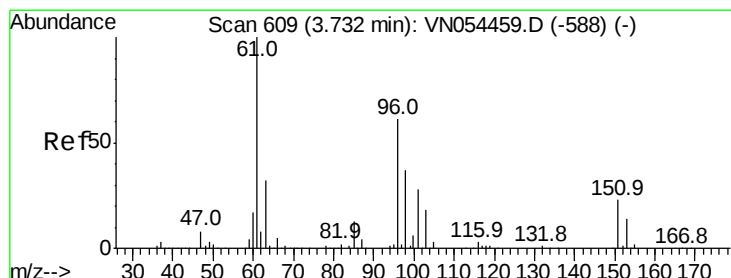
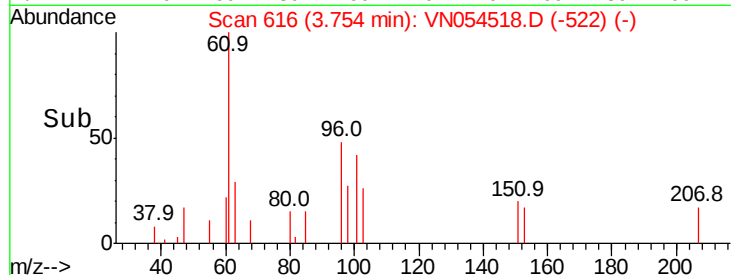
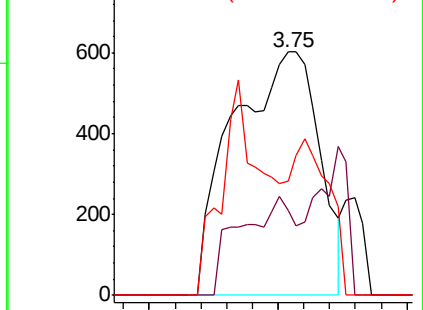
151 29.7 68.2 102.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.751 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

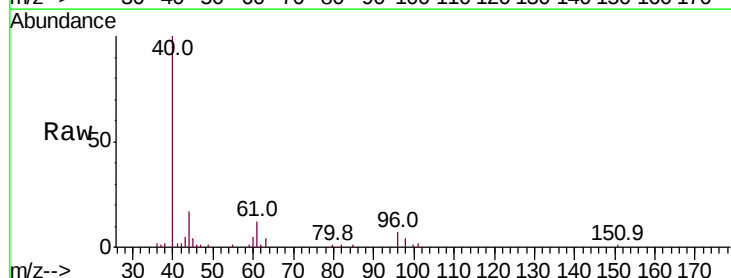
Tgt Ion: 96 Resp: 3373

Ion Ratio Lower Upper

96 100

61 158.8 116.5 174.7

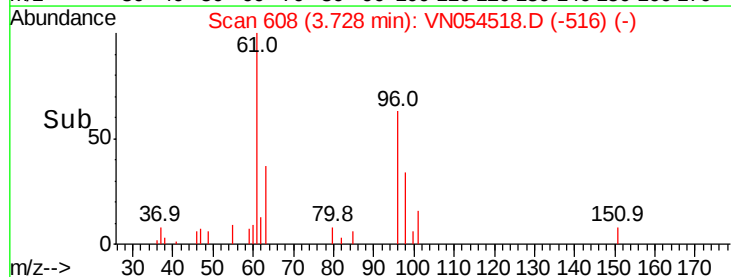
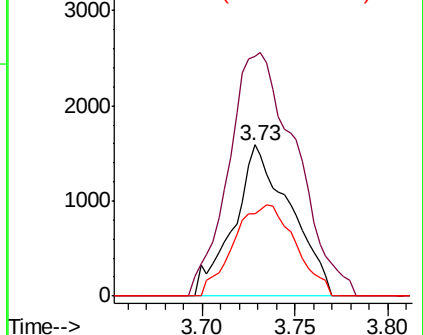
98 54.6 51.0 76.4

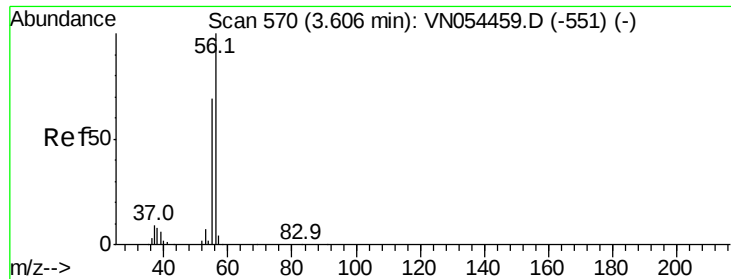


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#13

Acrolein

Concen: 0.610 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

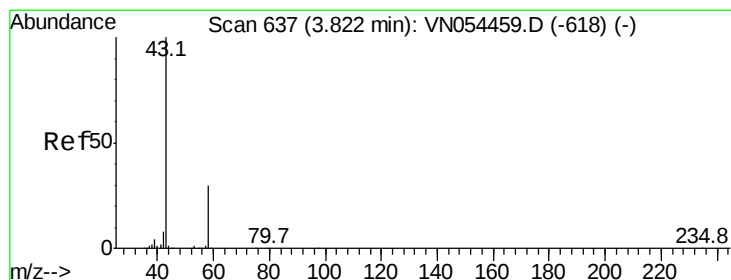
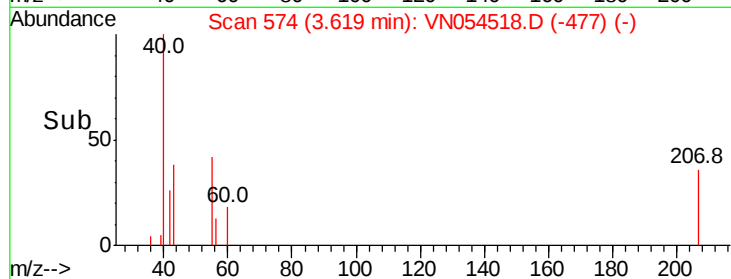
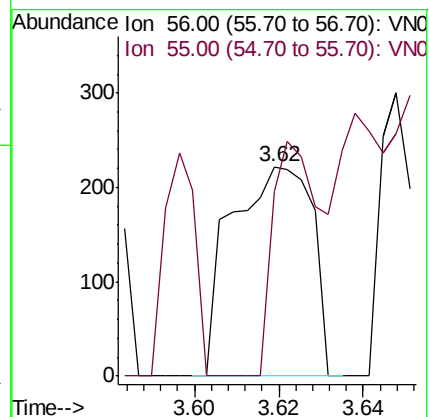
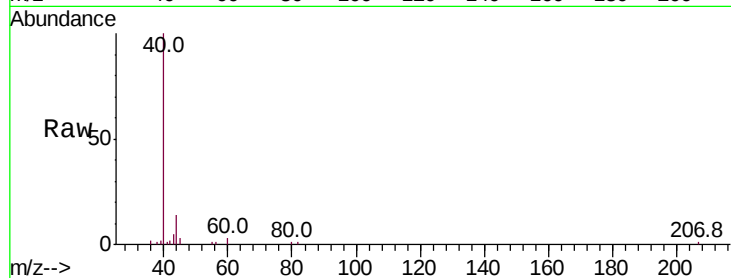
BP-DUP05-20190315

Tot Ion: 56 Resp: 295

Ion Ratio Lower Upper

56 100

55 67.5 56.7 85.1



#16

Acetone

Concen: 1.964 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054518.D

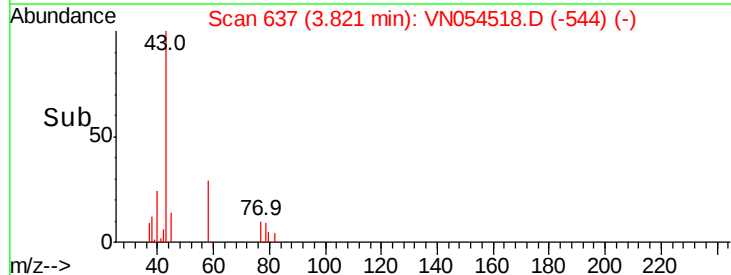
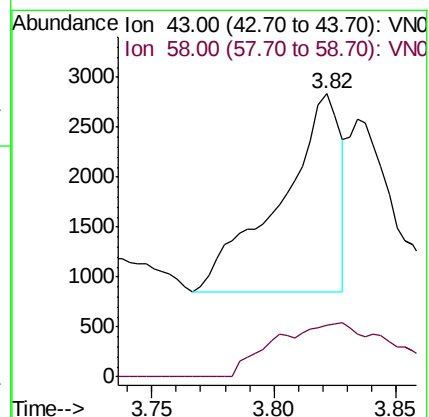
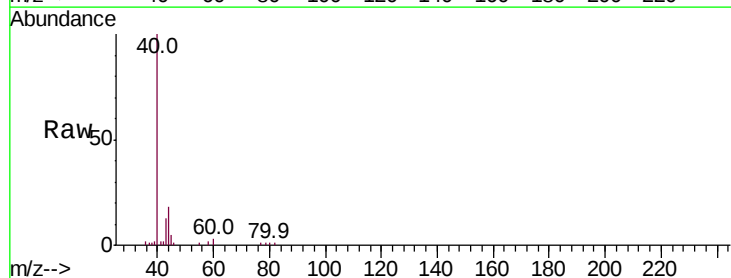
Acq: 21 Mar 2019 18:27

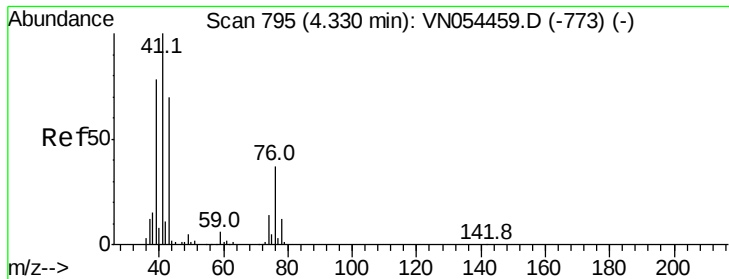
Tgt Ion: 43 Resp: 3420

Ion Ratio Lower Upper

43 100

58 25.9 29.9 44.9#

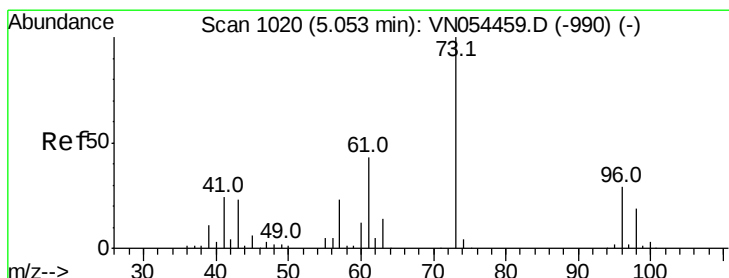
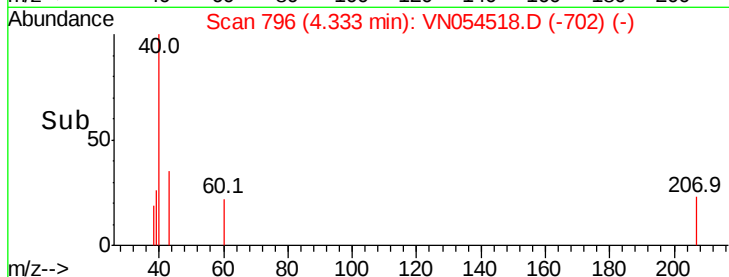
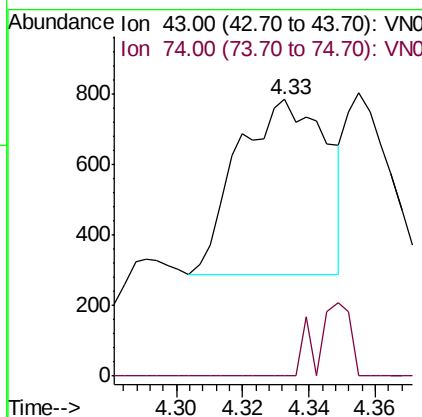
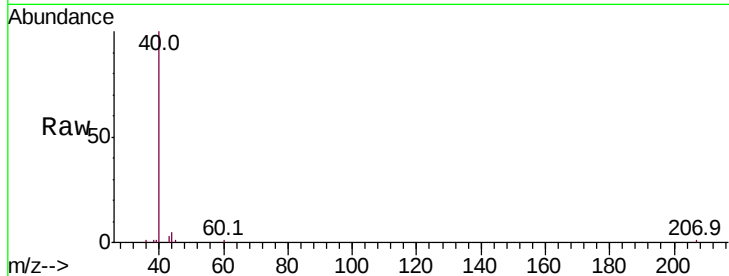




#18
Methyl Acetate
Concen: 0.239 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054518.D
Acq: 21 Mar 2019 18:27

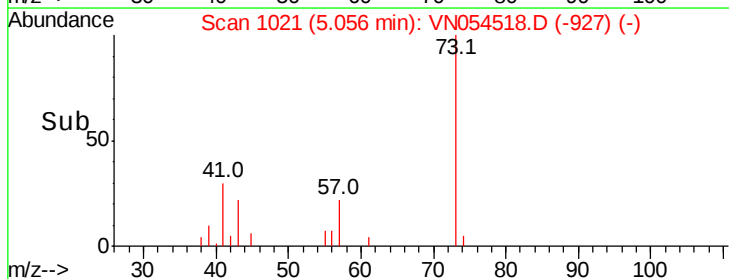
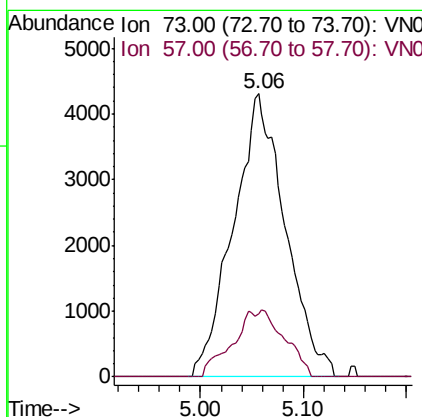
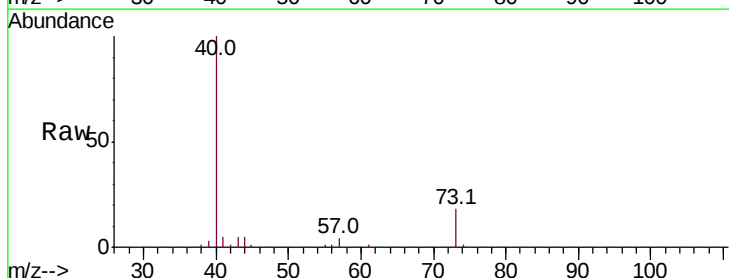
Instrument :
MSVOA_N
ClientSampleId :
BP-DUP05-20190315

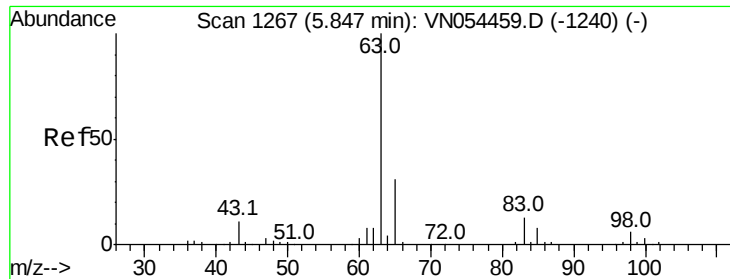
Tot Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
74 15.4 20.8 31.2#



#19
Methyl tert-butyl Ether
Concen: 1.150 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054518.D
Acq: 21 Mar 2019 18:27

Tgt Ion: 73 Resp: 15075
Ion Ratio Lower Upper
73 100
57 22.4 16.8 25.2

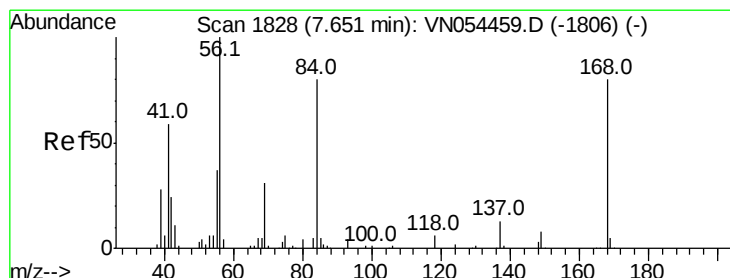
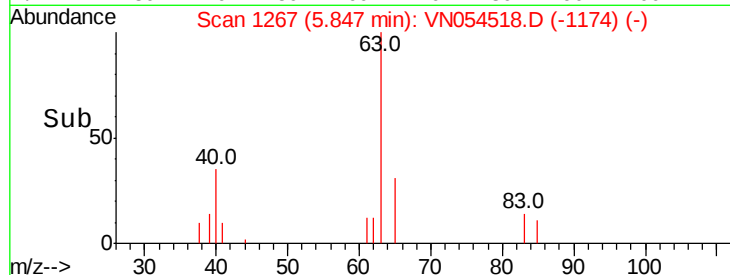
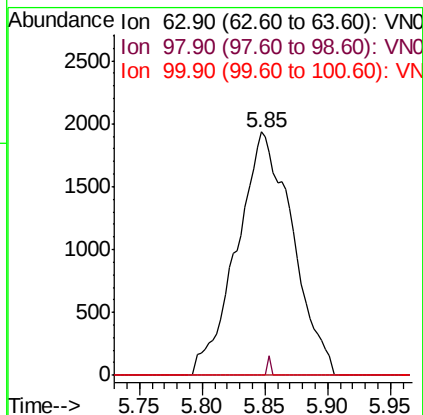
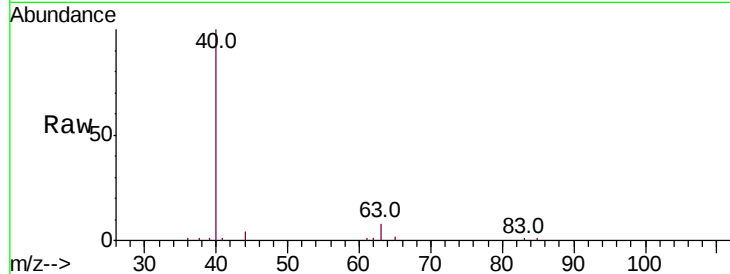




#24
 1,1-Dichloroethane
 Concen: 0.665 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054518.D
 Acq: 21 Mar 2019 18:27

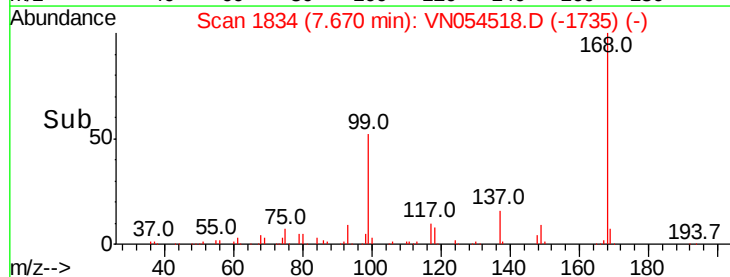
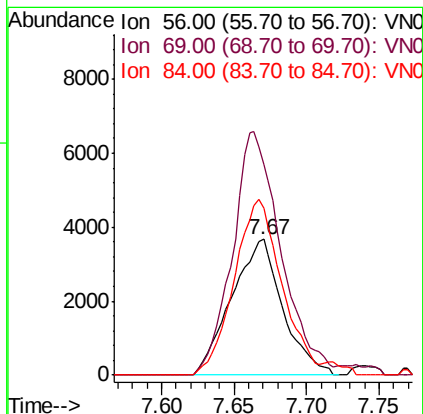
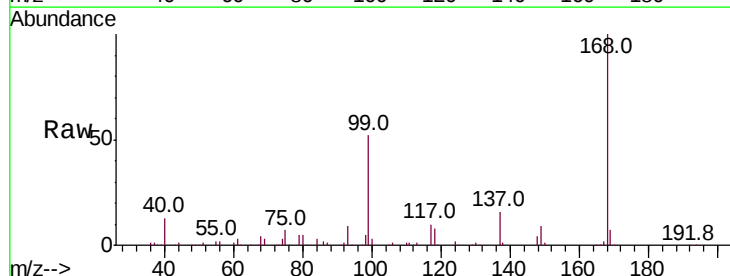
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-DUP05-20190315

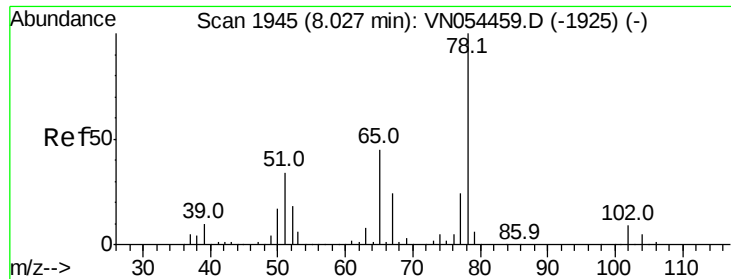
Tot Ion: 63 Resp: 5972
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.5 10.5#
 100 0.0 2.0 6.0#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.67 min Scan# 1834
 Delta R.T. 0.02 min
 Lab File: VN054518.D
 Acq: 21 Mar 2019 18:27

Tgt Ion: 56 Resp: 8998
 Ion Ratio Lower Upper
 56 100
 69 154.5 27.8 41.6#
 84 123.0 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 54.688 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

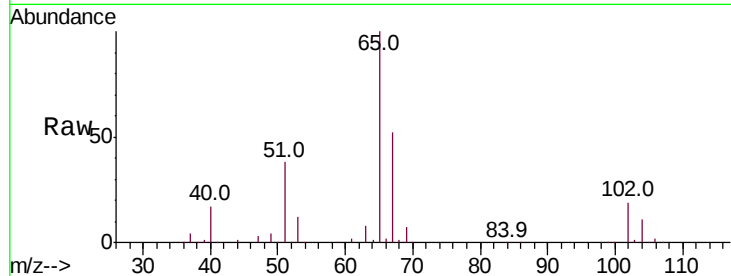
BP-DUP05-20190315

Tot Ion: 65 Resp: 316700

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054459.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN054459.D (-1925) (-)

8.03

150000

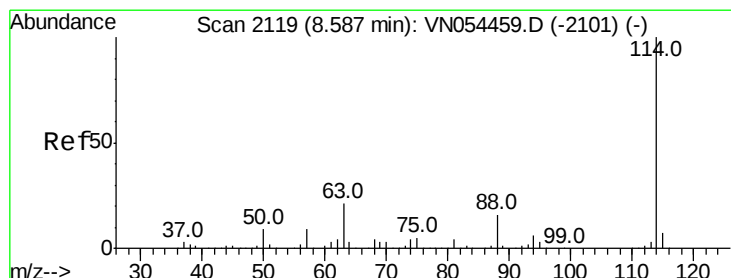
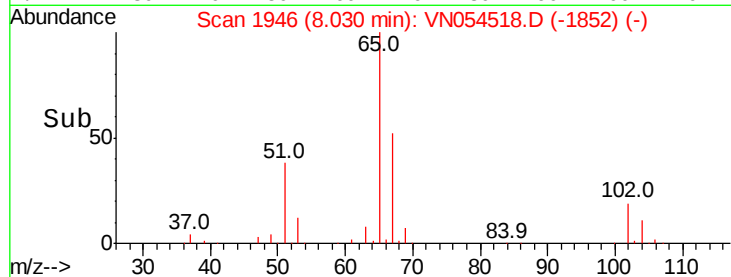
100000

50000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

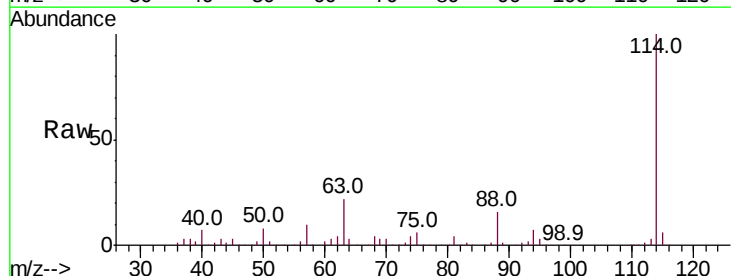
Tgt Ion: 114 Resp: 841231

Ion Ratio Lower Upper

114 100

63 22.1 0.0 35.2

88 16.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054459.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN054459.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN054459.D (-2101) (-)

8.59

500000

400000

300000

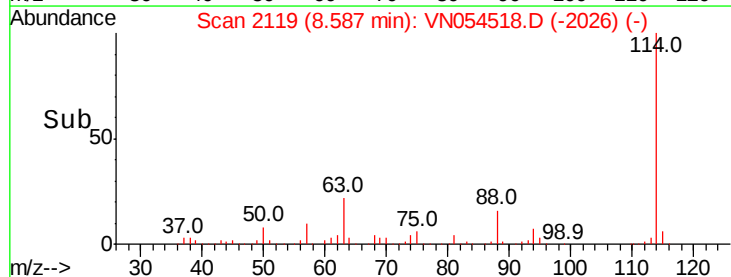
200000

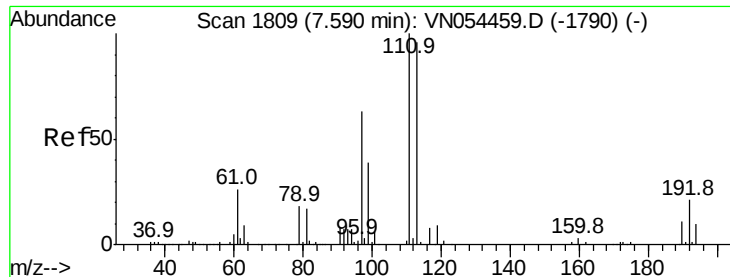
100000

0

8.40 8.50 8.60 8.70 8.80

Time-->

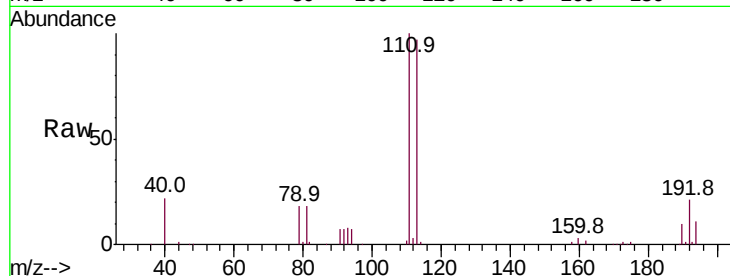




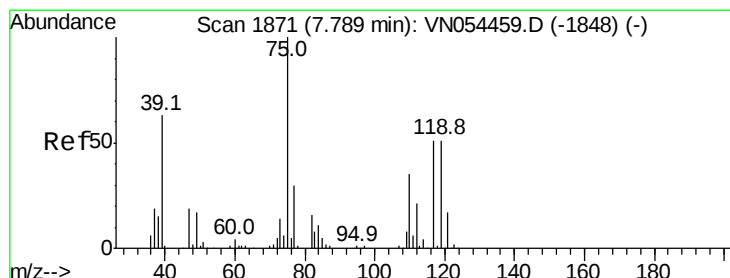
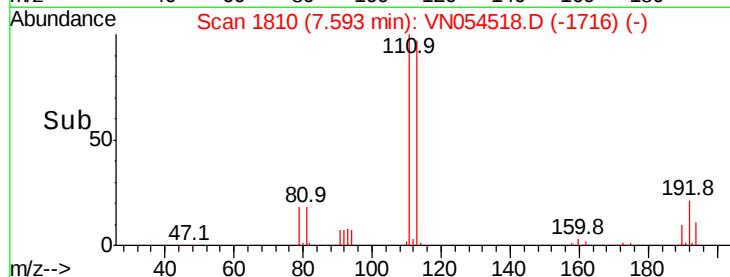
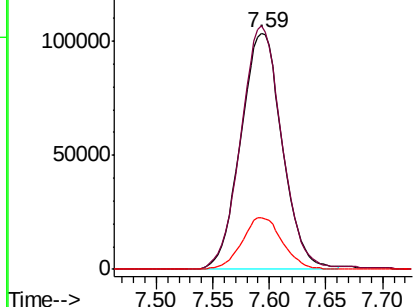
#35
 Dibromofluoromethane
 Concen: 48.789 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054518.D
 Acq: 21 Mar 2019 18:27

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-DUP05-20190315

Tot Ion:113 Resp: 264419
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.2 123.4
 192 21.3 19.2 28.8

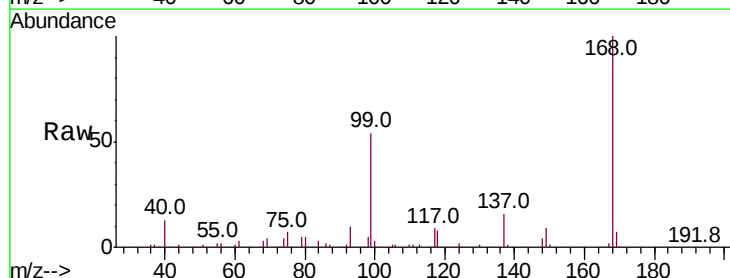


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

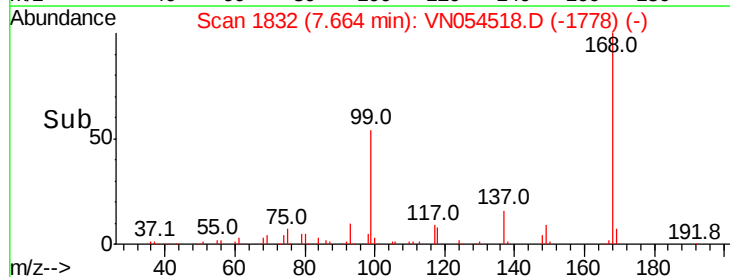
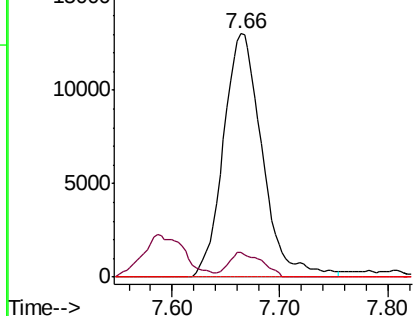


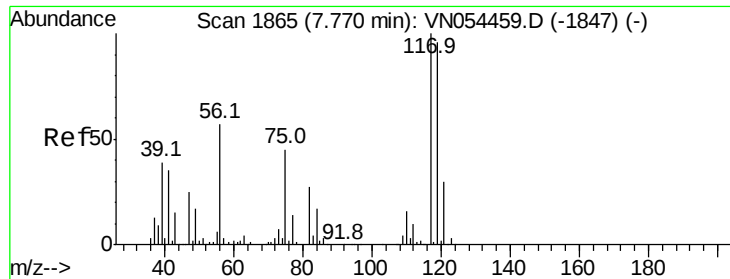
#36
 1,1-Dichloropropene
 Concen: 4.148 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054518.D
 Acq: 21 Mar 2019 18:27

Tgt Ion: 75 Resp: 32625
 Ion Ratio Lower Upper
 75 100
 110 8.8 19.1 57.5#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.481 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

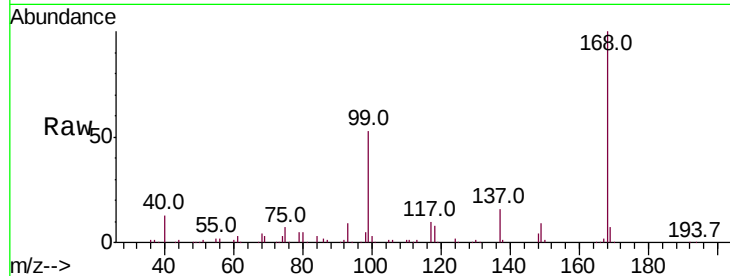
Tot Ion:117 Resp: 41898

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

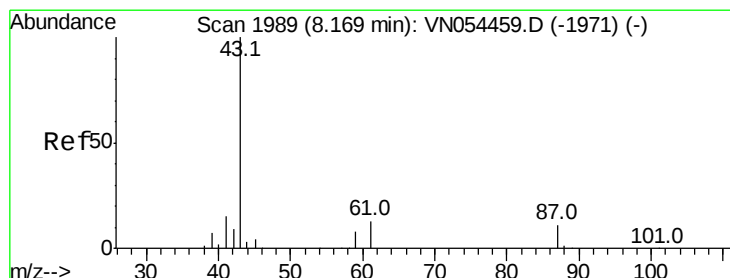
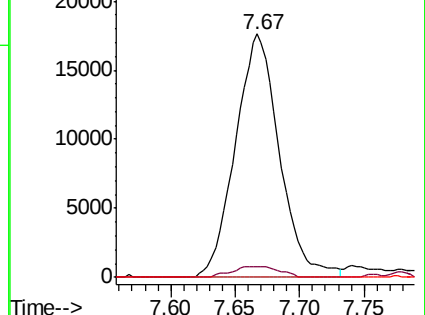
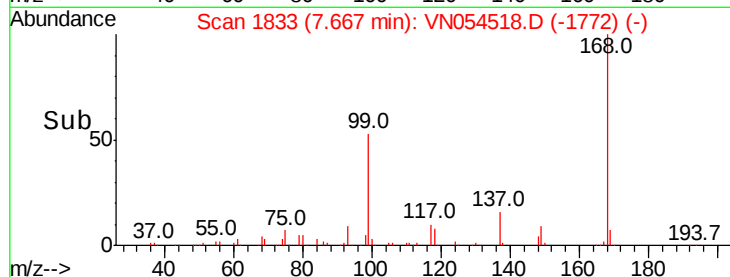
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 0.214 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.08 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

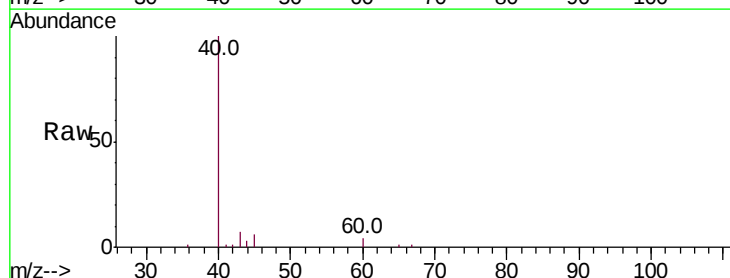
Tgt Ion: 43 Resp: 2020

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

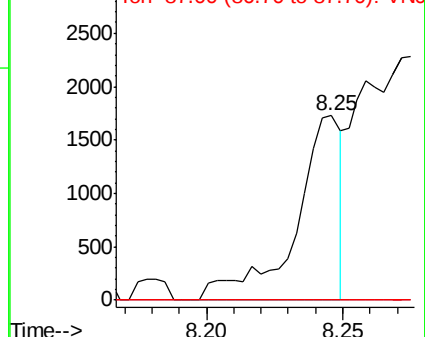
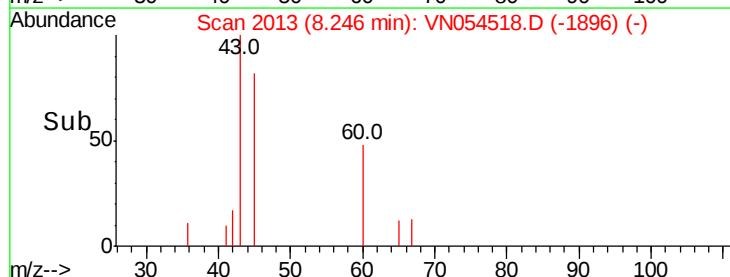
87 0.0 12.0 18.0#

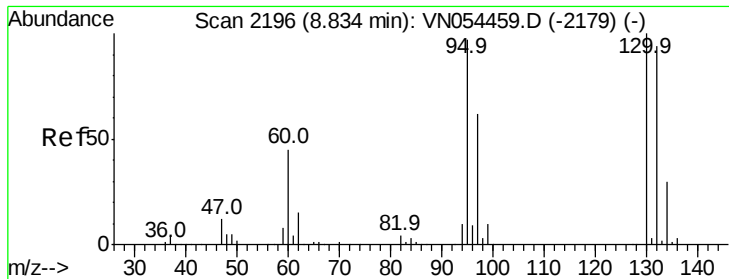


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 3.683 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

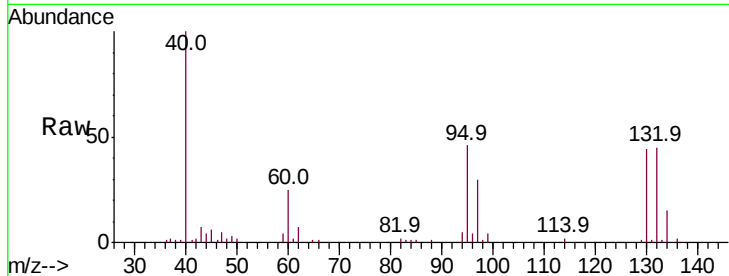
BP-DUP05-20190315

Tot Ion:130 Resp: 23028

Ion Ratio Lower Upper

130 100

95 104.0 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)

8.84

12000

10000

8000

6000

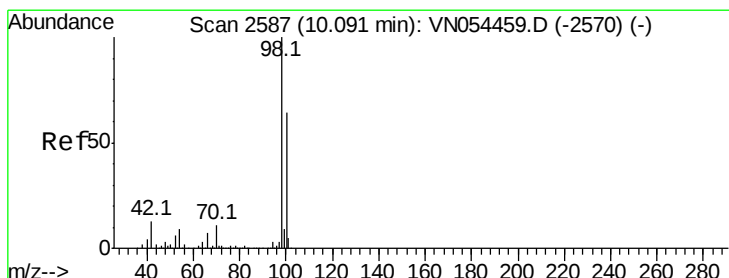
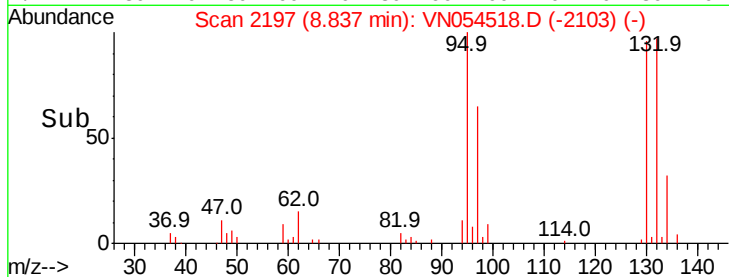
4000

2000

0

8.75 8.80 8.85 8.90 8.95

Time-->



#50

Toluene-d8

Concen: 53.303 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054518.D

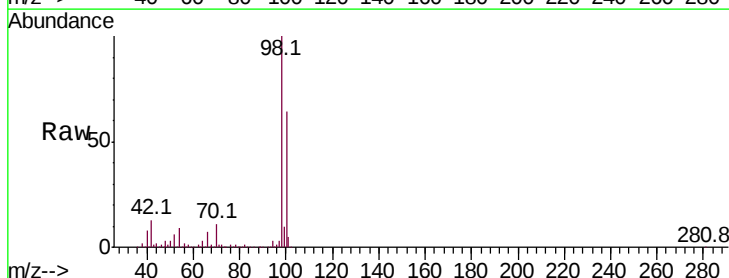
Acq: 21 Mar 2019 18:27

Tgt Ion: 98 Resp: 1086012

Ion Ratio Lower Upper

98 100

100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

600000

500000

400000

300000

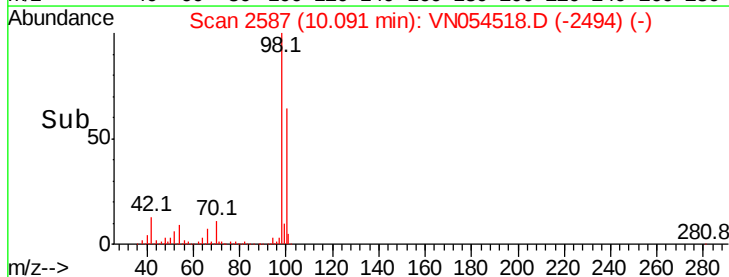
200000

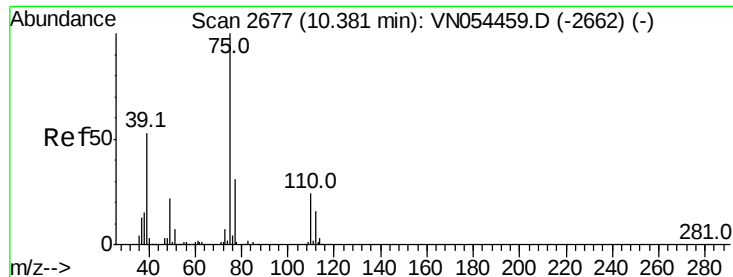
100000

0

10.00 10.10 10.20 10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.240 ug/l

RT: 10.11 min Scan# 2593

Delta R.T. -0.27 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

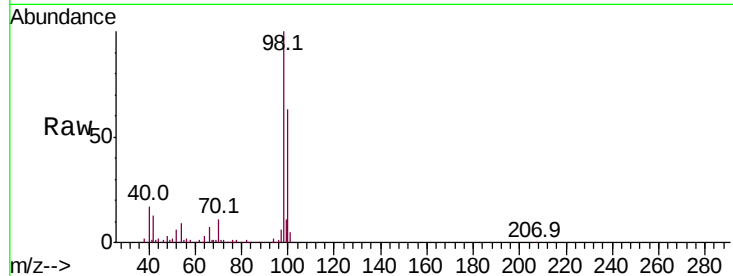
BP-DUP05-20190315

Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

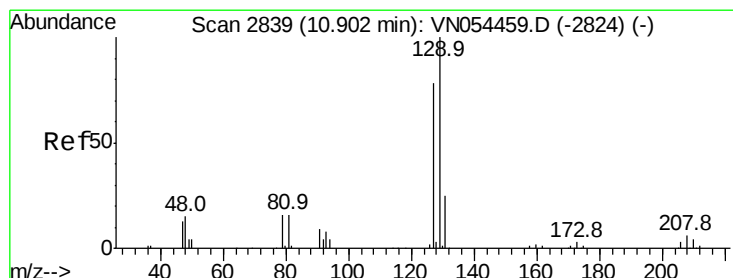
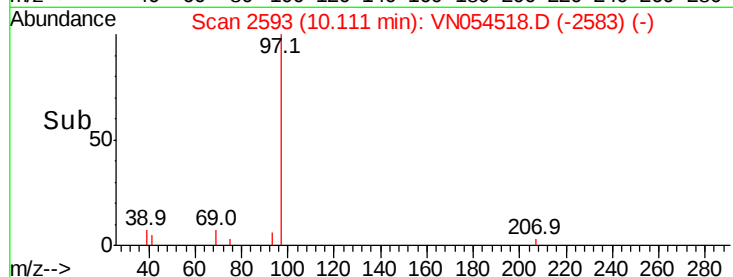
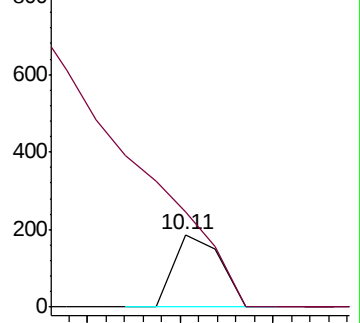
75 100

77 132.3 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#60

Dibromochloromethane

Concen: 2.970 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN054518.D

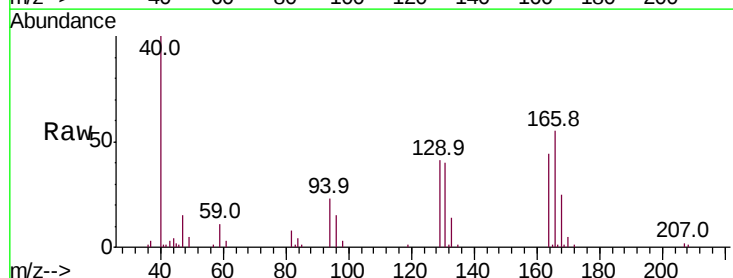
Acq: 21 Mar 2019 18:27

Tgt Ion: 129 Resp: 15717

Ion Ratio Lower Upper

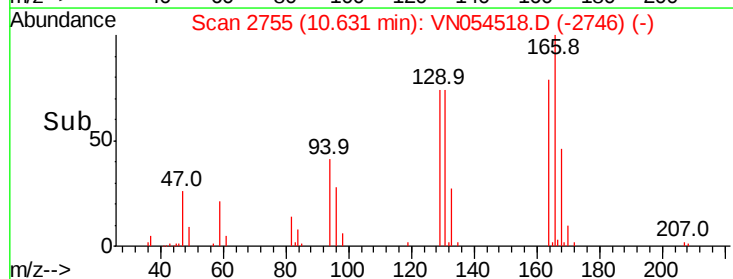
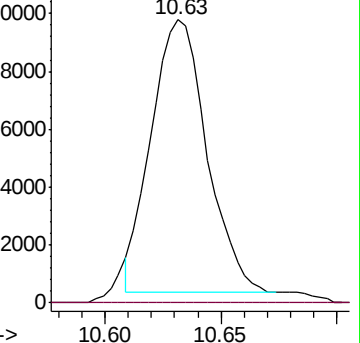
129 100

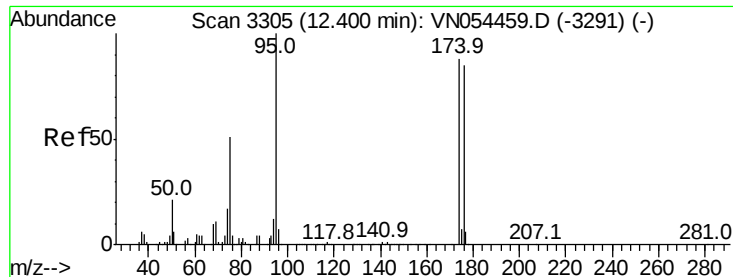
127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 57.461 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

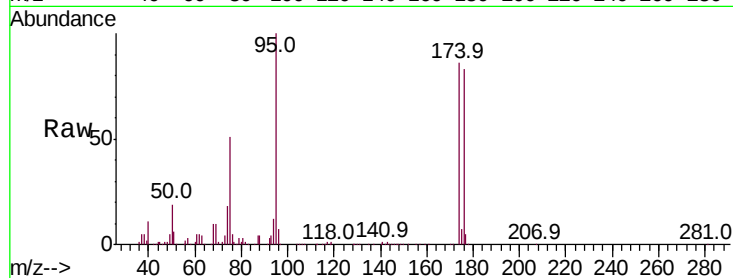
Tot Ion: 95 Resp: 398382

Ion Ratio Lower Upper

95 100

174 85.8 0.0 191.0

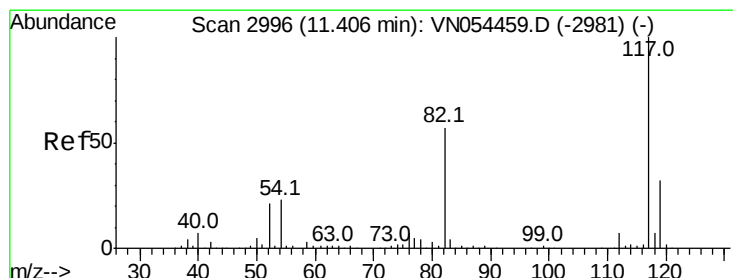
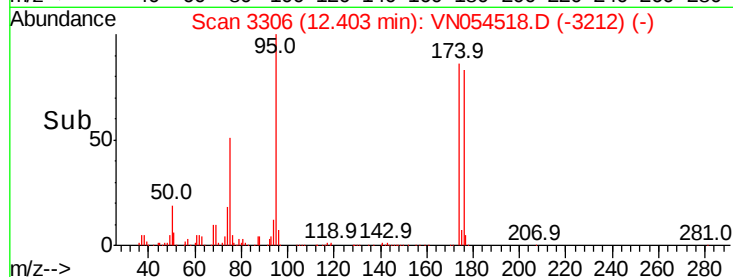
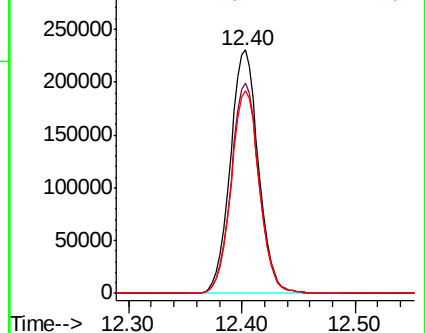
176 83.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

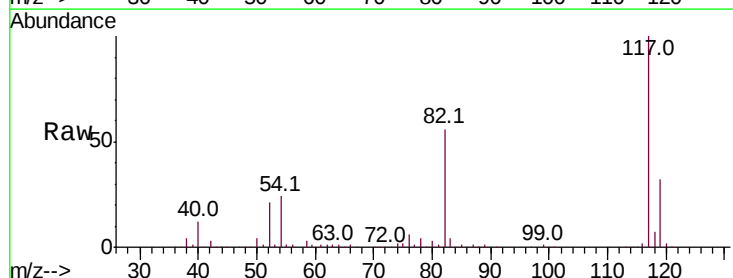
Tgt Ion: 117 Resp: 874048

Ion Ratio Lower Upper

117 100

82 55.6 40.0 60.0

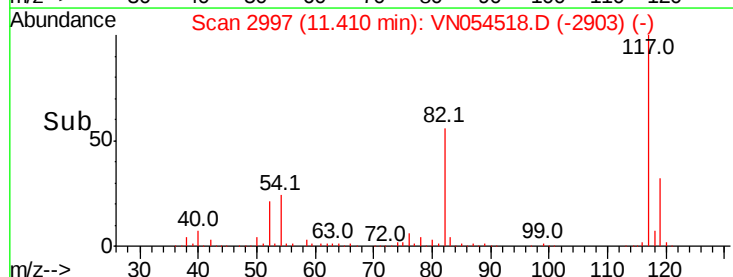
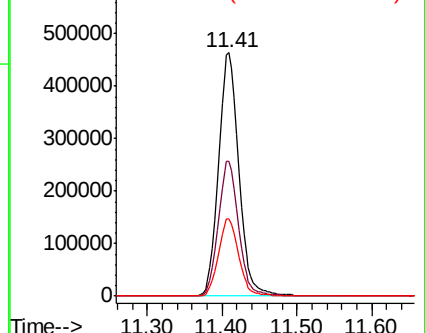
119 31.8 25.8 38.6

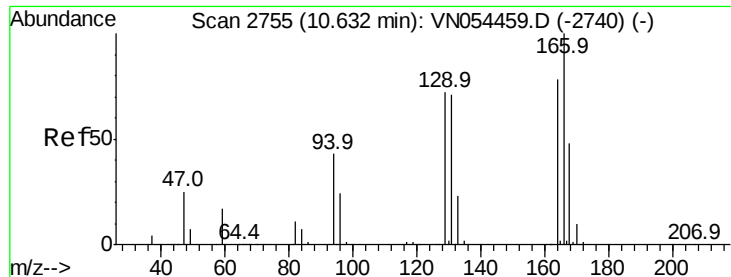


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#64

Tetrachloroethene

Concen: 2.703 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

Tot Ion:164 Resp: 19598

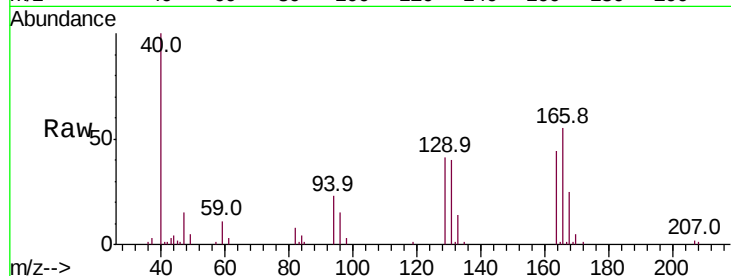
Ion Ratio Lower Upper

164 100

166 124.9 103.9 155.9

129 93.0 71.1 106.7

131 91.2 68.2 102.4

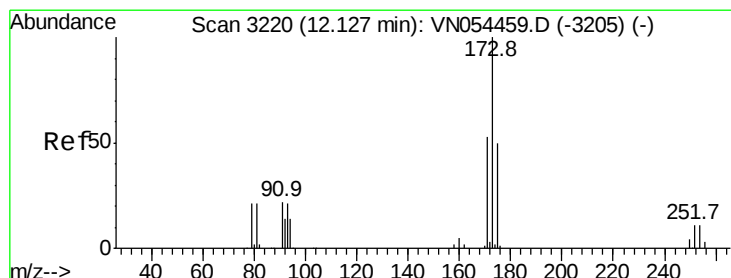
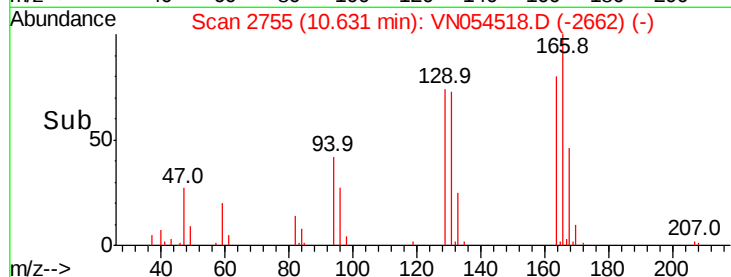
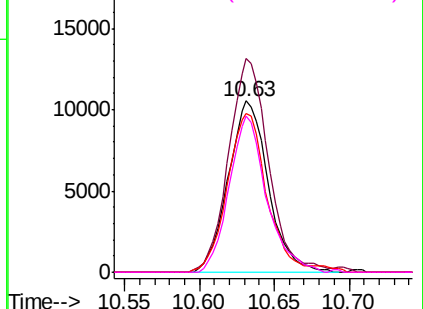


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 2.242 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

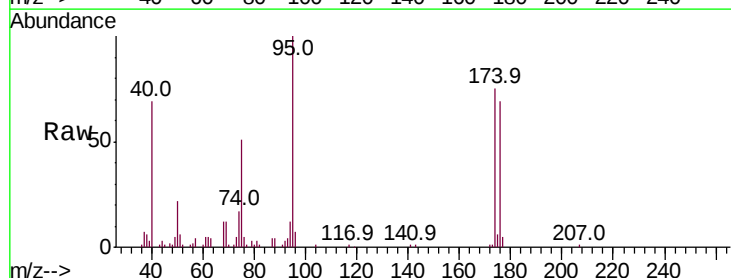
Tgt Ion:173 Resp: 101

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

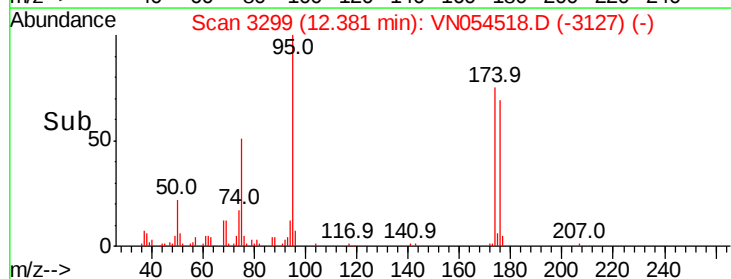
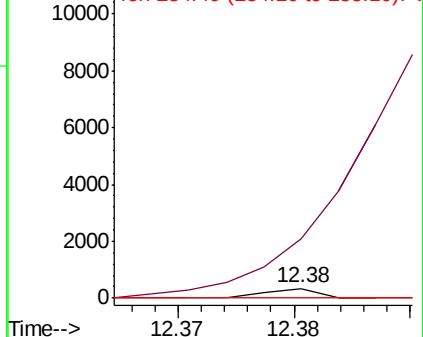
254 0.0 0.1 0.1#

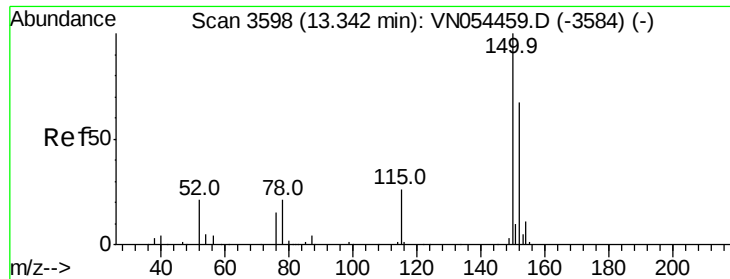


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

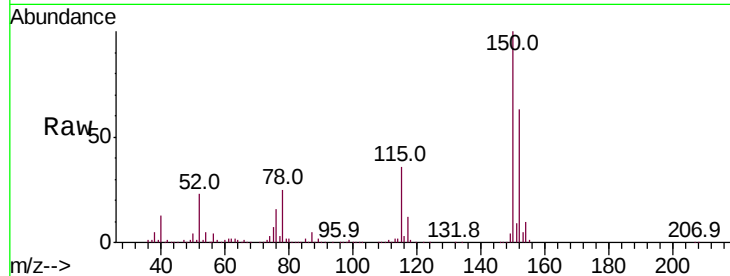
Tot Ion:152 Resp: 317533

Ion Ratio Lower Upper

152 100

115 57.9 27.2 81.6

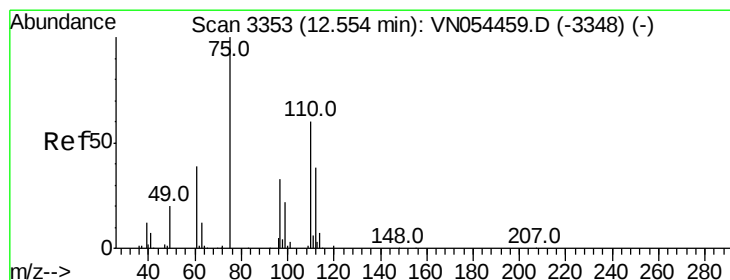
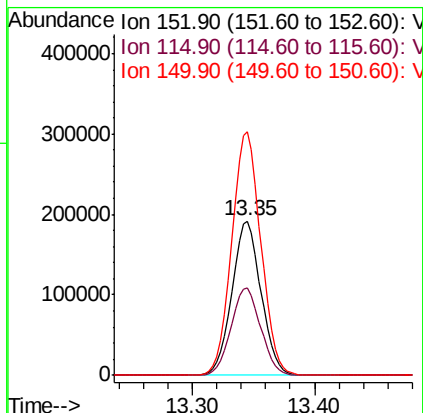
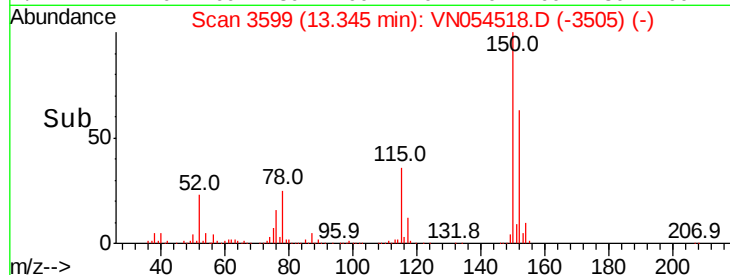
150 158.0 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 40.290 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054518.D

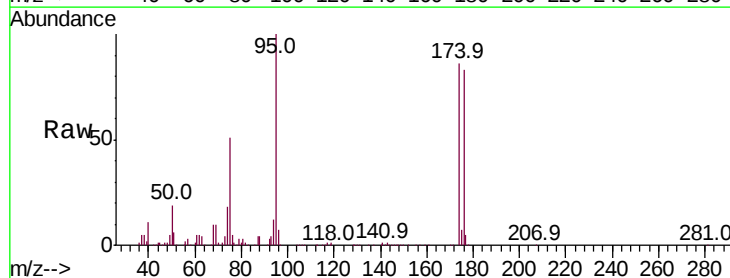
Acq: 21 Mar 2019 18:27

Tgt Ion: 75 Resp: 203012

Ion Ratio Lower Upper

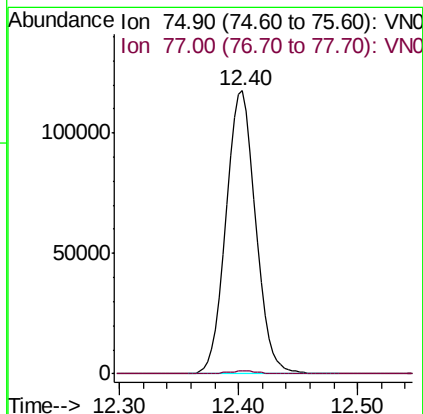
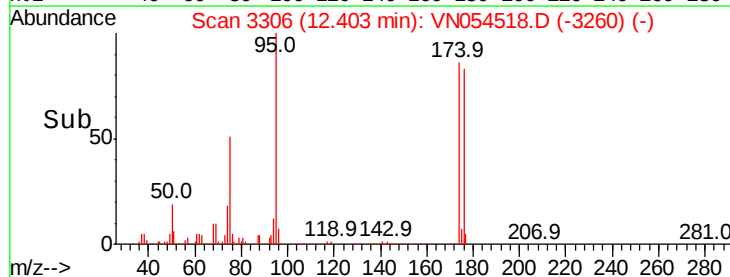
75 100

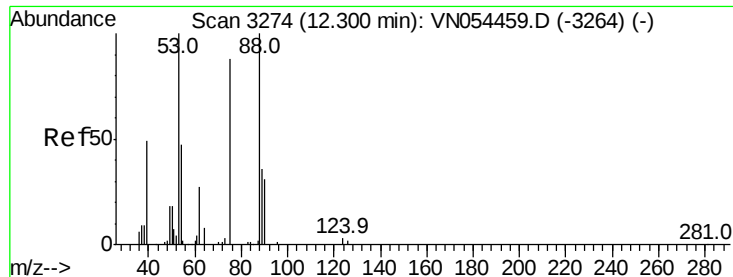
77 1.1 0.0 0.0#



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: 133.255 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054518.D

Acq: 21 Mar 2019 18:27

Instrument :

MSVOA_N

ClientSampleId :

BP-DUP05-20190315

Tot Ion: 75 Resp: 203012

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

