

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062722.D
 Acq On : 1 Aug 2020 6:49
 Operator : JC/MD
 Sample : L3518-48
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Aug 01 07:45:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	144318	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	262982	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	264704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	96425	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	126075	56.24	ug/l	0.00
Spiked Amount			Recovery	=	112.48%	
35) Dibromofluoromethane	7.55	113	87342	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
50) Toluene-d8	10.06	98	351260	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.38	95	124839	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	

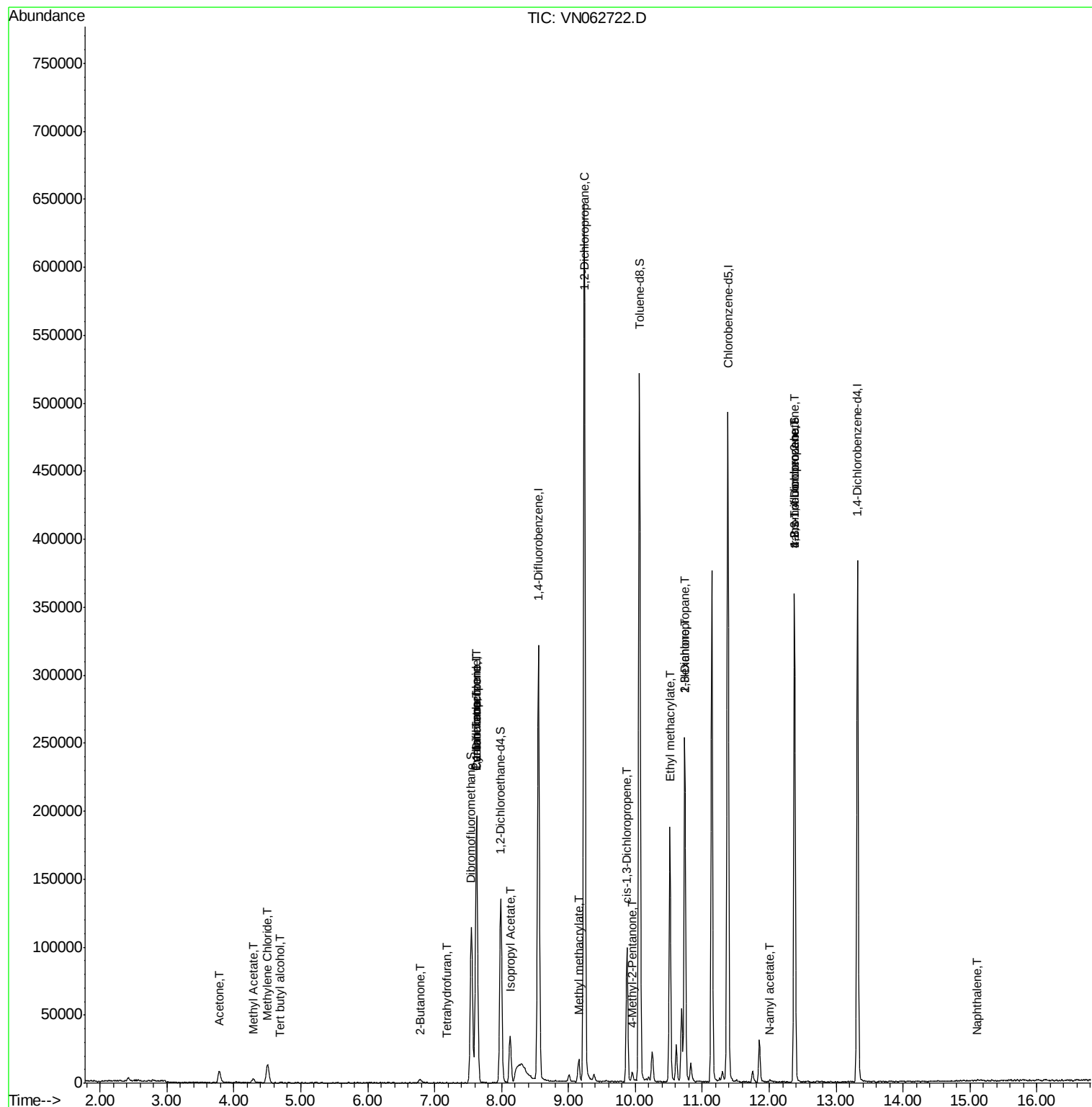
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	196	0.550	ug/l #	73
16) Acetone	3.78	43	15775	18.699	ug/l	91
18) Methyl Acetate	4.28	43	5452	2.553	ug/l #	87
20) Methylene Chloride	4.51	84	10309	5.095	ug/l	92
25) 2-Butanone	6.80	43	2013	1.567	ug/l #	52
29) Tetrahydrofuran	7.18	42	219	0.252	ug/l #	38
31) Cyclohexane	7.63	56	3752	1.136	ug/l #	37
36) 1,1-Dichloropropene	7.62	75	13022	4.646	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15537	5.766	ug/l #	18
43) Isopropyl Acetate	8.13	43	40258	8.265	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	695	0.292	ug/l #	44
48) Methyl methacrylate	9.14	41	2795	1.207	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	3607	1.238	ug/l #	72
54) cis-1,3-Dichloropropene	9.87	75	17040	4.781	ug/l #	69
56) Ethyl methacrylate	10.51	69	930	2.030	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2568	0.733	ug/l #	42
59) 2-Hexanone	10.74	43	39238	20.161	ug/l #	52
74) N-amyl acetate	12.01	43	1257	0.369	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	69752	28.420	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69752	79.114	ug/l #	12
95) Naphthalene	15.11	128	780	3.930	ug/l #	86

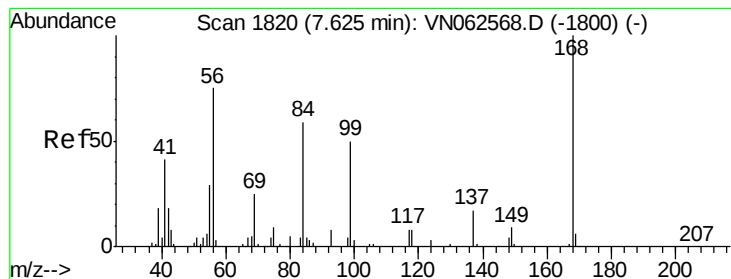
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampled :

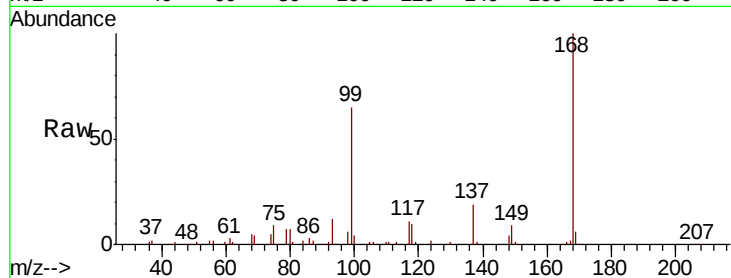
BFB

Tot Ion:168 Resp: 144318

Ion Ratio Lower Upper

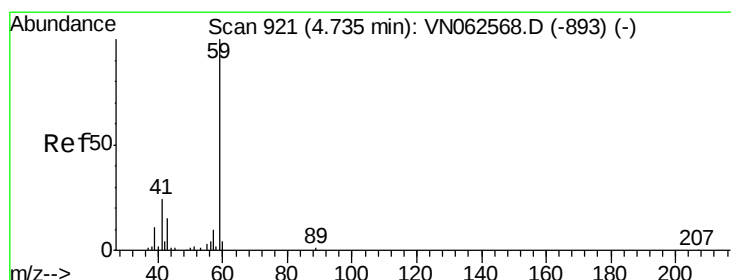
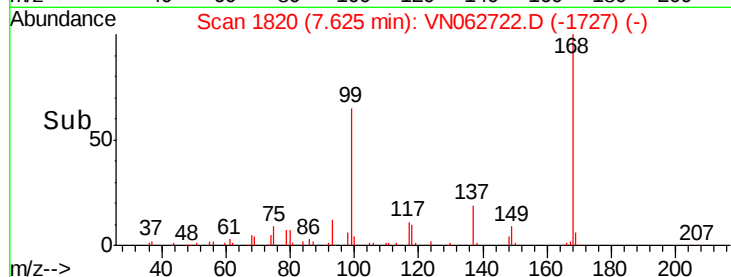
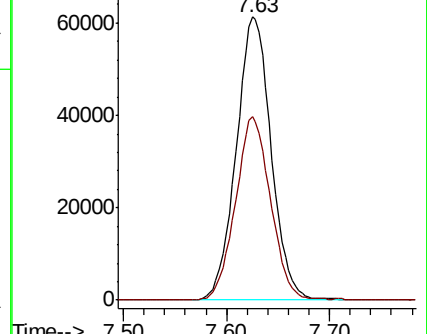
168 100

99 64.8 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062568.D

Ion 98.90 (98.60 to 99.60): VN062568.D



#11

Tert butyl alcohol

Concen: 0.550 ug/l

RT: 4.70 min Scan# 909

Delta R.T. -0.04 min

Lab File: VN062722.D

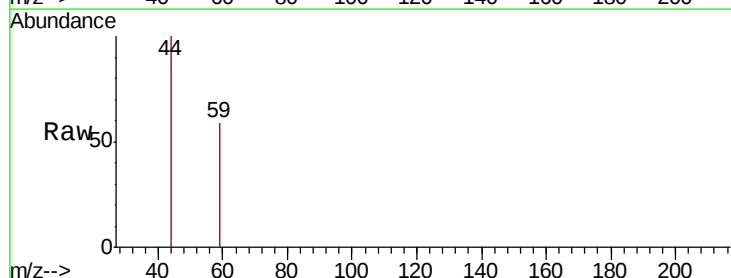
Acq: 1 Aug 2020 6:49

Tgt Ion: 59 Resp: 196

Ion Ratio Lower Upper

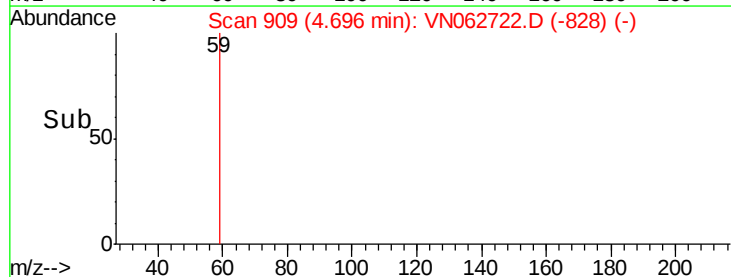
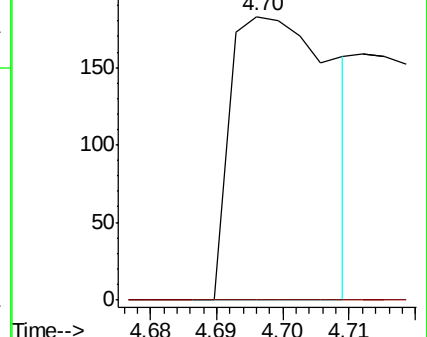
59 100

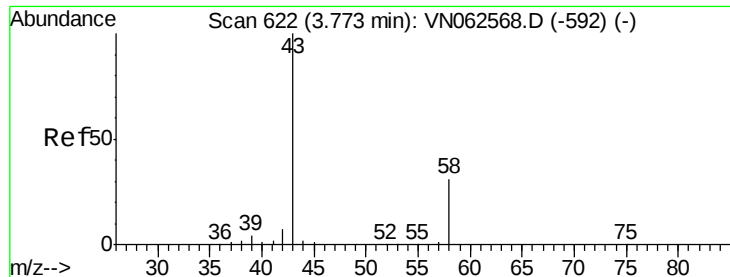
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN062568.D

Ion 57.00 (56.70 to 57.70): VN062568.D





#16

Acetone

Concen: 18.699 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampled :

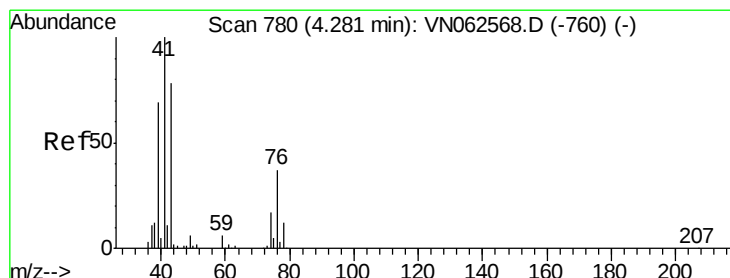
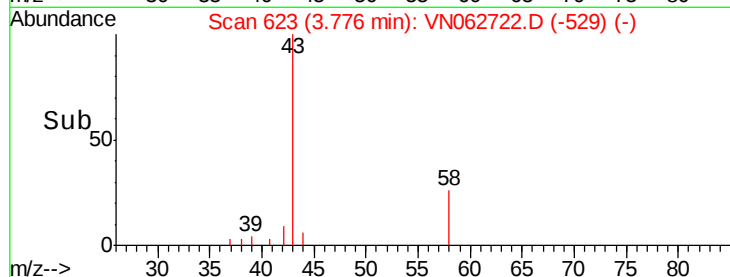
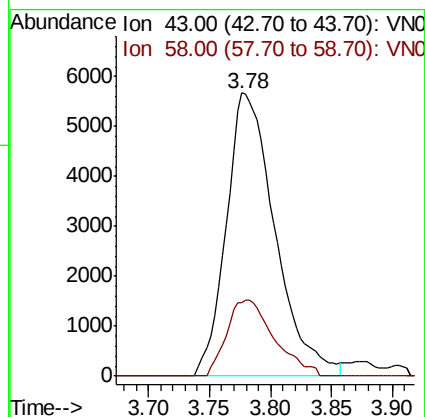
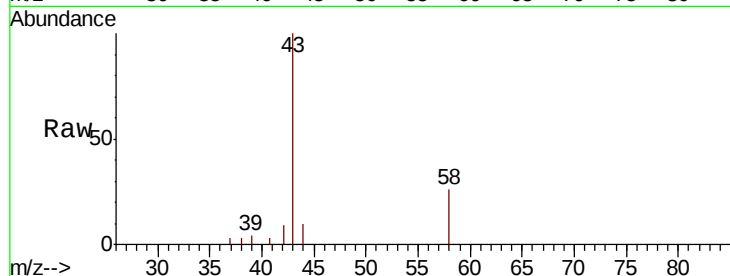
BFB

Tot Ion: 43 Resp: 15775

Ion Ratio Lower Upper

43 100

58 25.9 24.6 37.0



#18

Methyl Acetate

Concen: 2.553 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.00 min

Lab File: VN062722.D

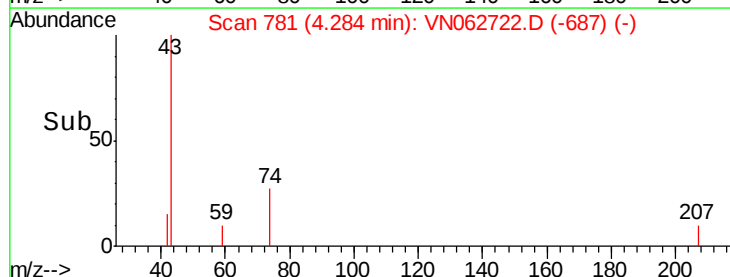
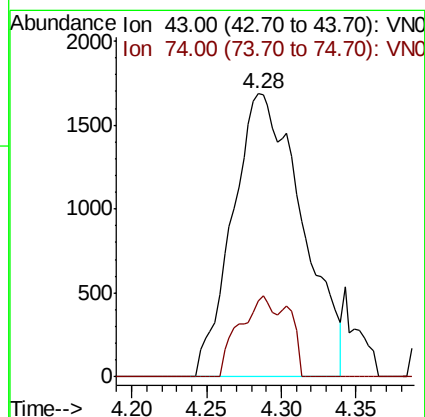
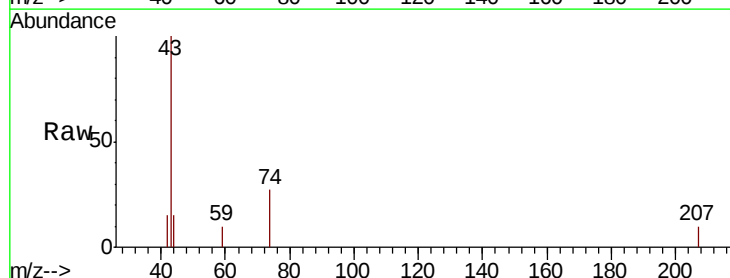
Acq: 1 Aug 2020 6:49

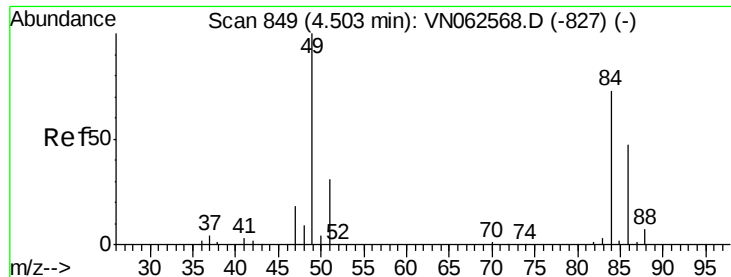
Tgt Ion: 43 Resp: 5452

Ion Ratio Lower Upper

43 100

74 14.7 16.6 24.8#

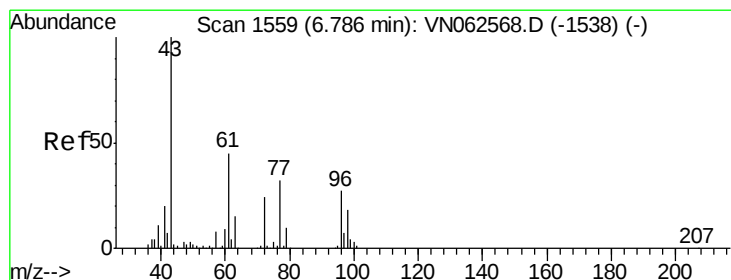
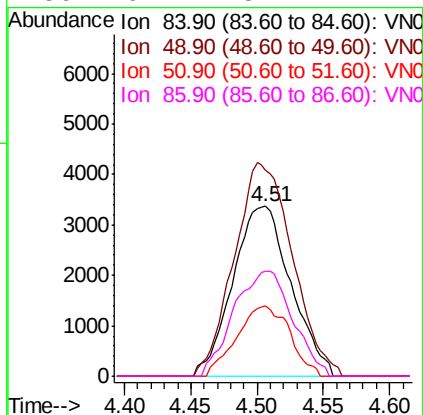
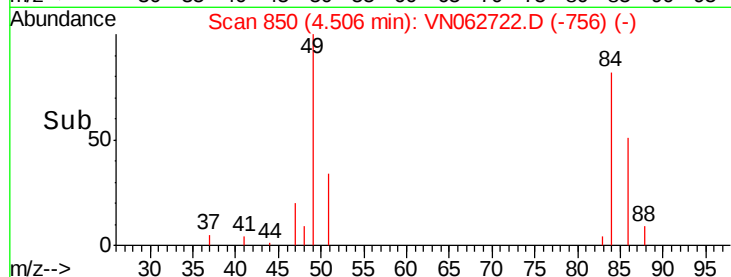
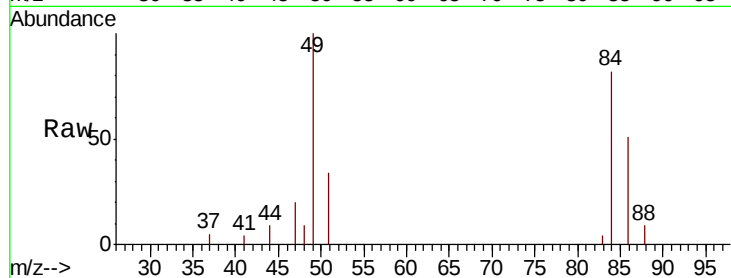




#20
Methvlene Chloride
Concen: 5.095 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062722.D
Acq: 1 Aug 2020 6:49

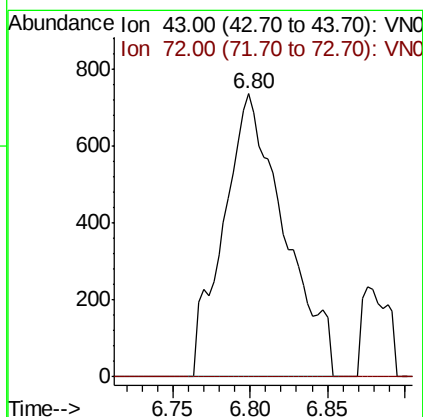
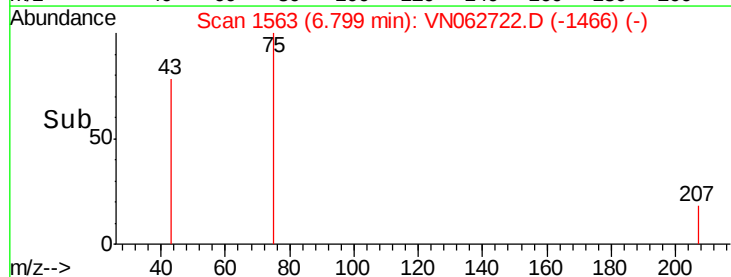
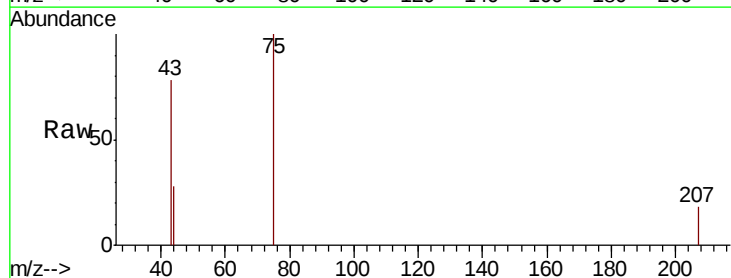
Instrument :
MSVOA_N
ClientSampleId :
BFB

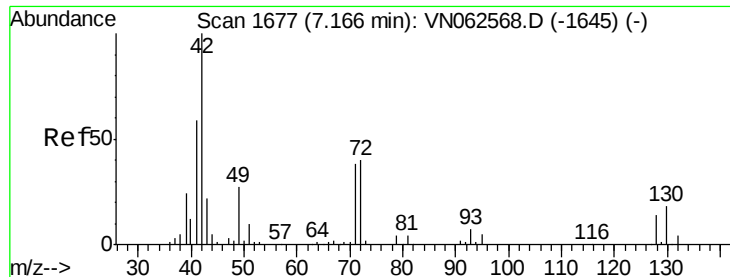
Tot Ion: 84 Resp: 10309
Ion Ratio Lower Upper
84 100
49 121.3 109.4 164.0
51 41.1 33.6 50.4
86 62.1 51.4 77.2



#25
2-Butanone
Concen: 1.567 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN062722.D
Acq: 1 Aug 2020 6:49

Tgt Ion: 43 Resp: 2013
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

BFB

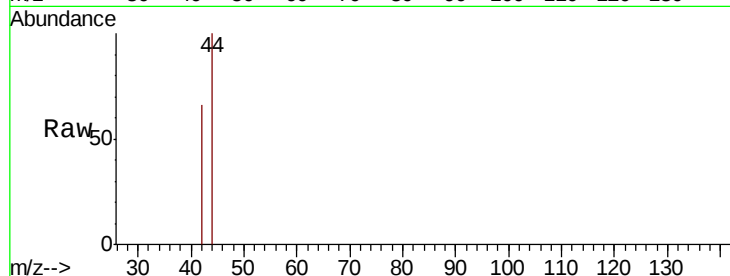
Tot Ion: 42 Resp: 219

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

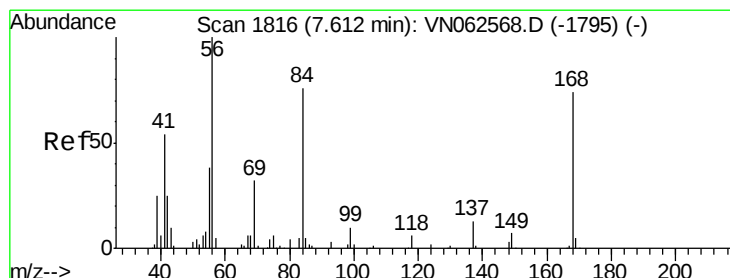
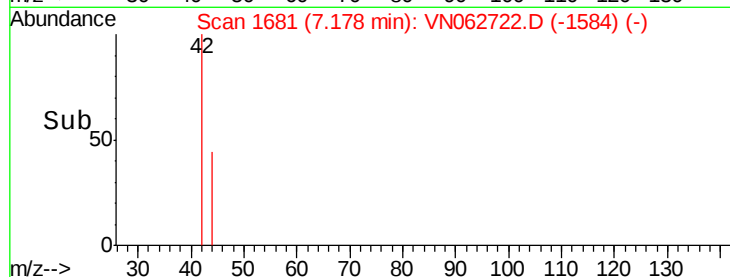
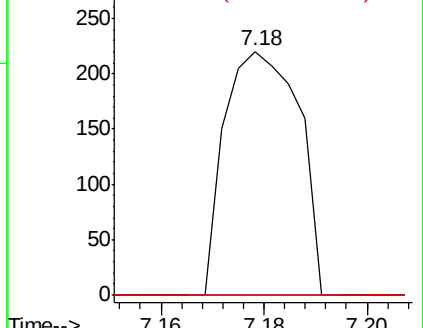
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN062568.D (-1645) (-)

Ion 72.00 (71.70 to 72.70): VN062568.D (-1645) (-)

Ion 71.00 (70.70 to 71.70): VN062568.D (-1645) (-)



#31

Cyclohexane

Concen: 1.136 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.02 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

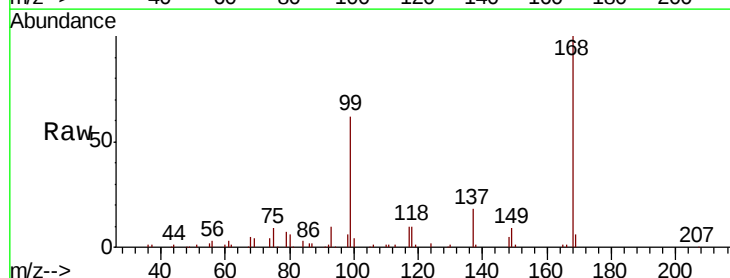
Tgt Ion: 56 Resp: 3752

Ion Ratio Lower Upper

56 100

69 134.3 25.3 37.9#

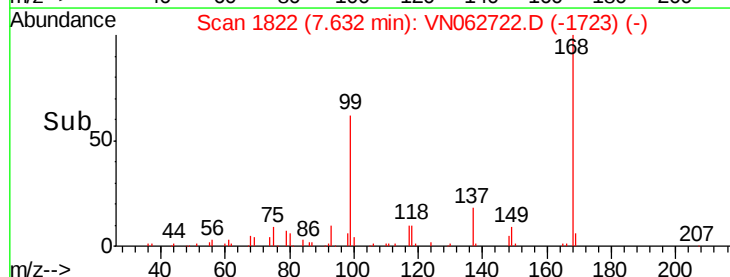
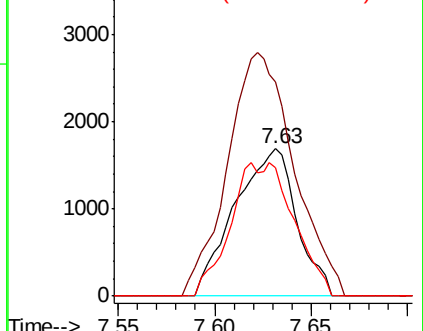
84 87.1 61.0 91.4

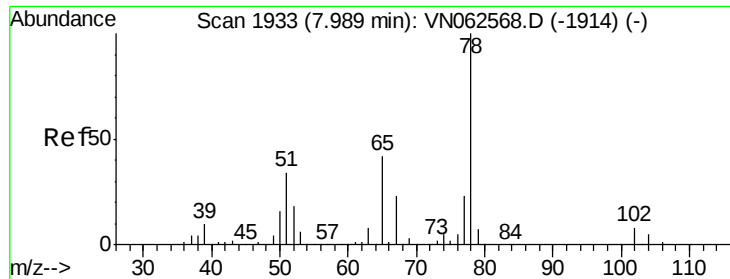


Abundance Ion 56.00 (55.70 to 56.70): VN062568.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062568.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062568.D (-1795) (-)





#33

1,2-Dichloroethane-d4

Concen: 56.236 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

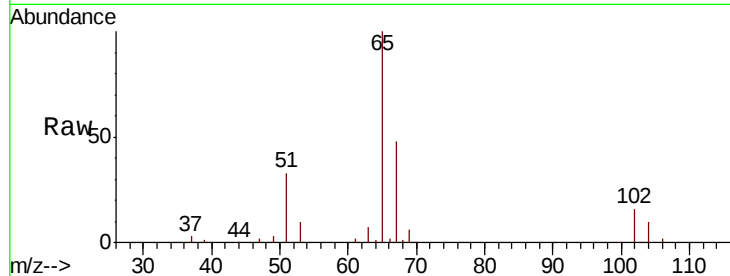
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Tot Ion: 65 Resp: 126075

Ion Ratio Lower Upper

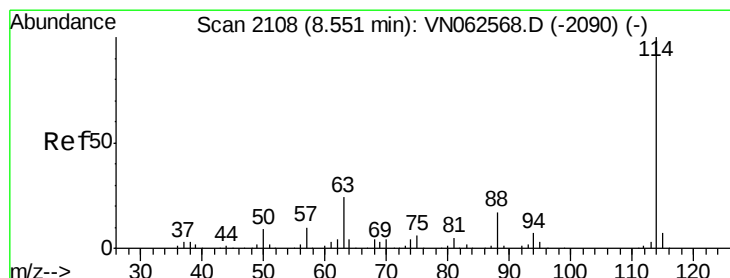
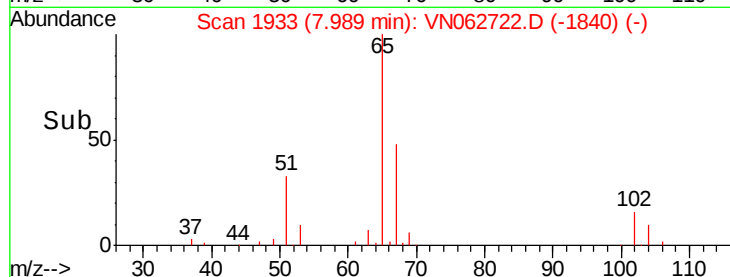
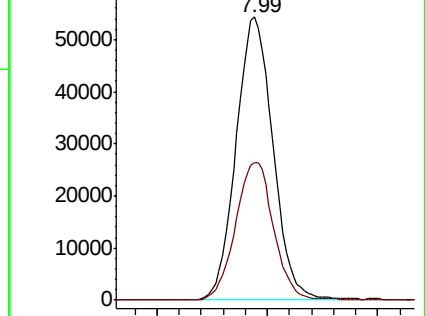
65 100

67 49.8 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062722.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN062722.D (-1914) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

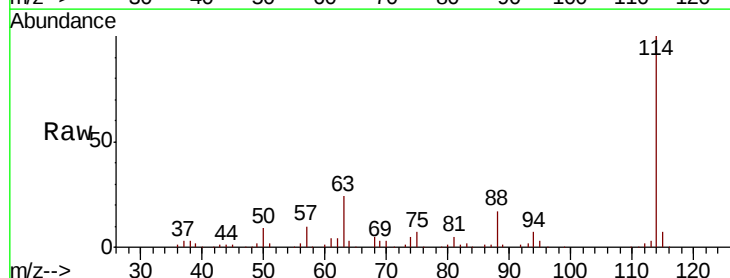
Tgt Ion: 114 Resp: 262982

Ion Ratio Lower Upper

114 100

63 23.6 0.0 48.4

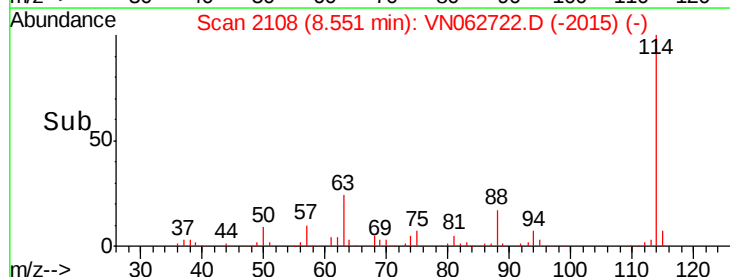
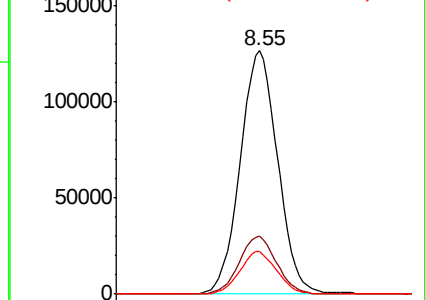
88 17.5 0.0 33.8

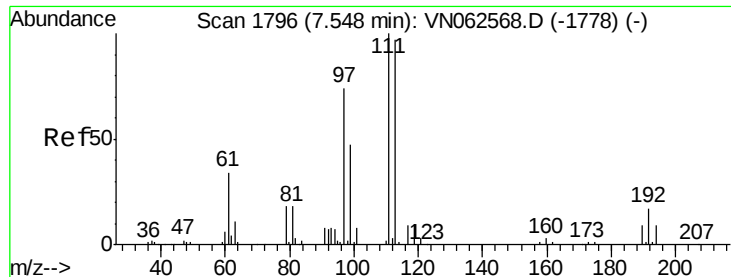


Abundance Ion 113.90 (113.60 to 114.60): VN062722.D (-2090) (-)

Ion 63.00 (62.70 to 63.70): VN062722.D (-2090) (-)

Ion 87.90 (87.60 to 88.60): VN062722.D (-2090) (-)

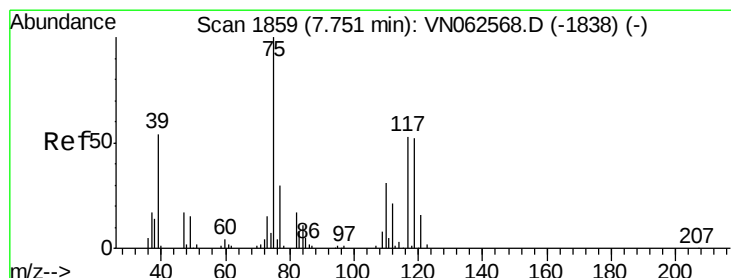
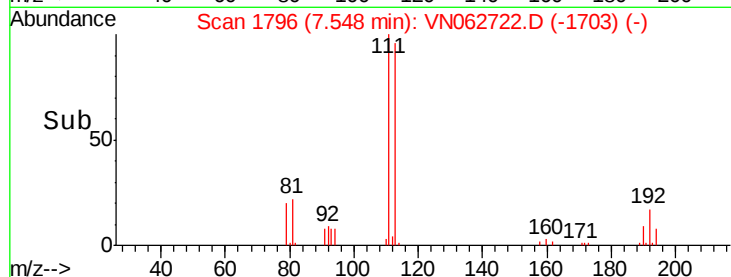
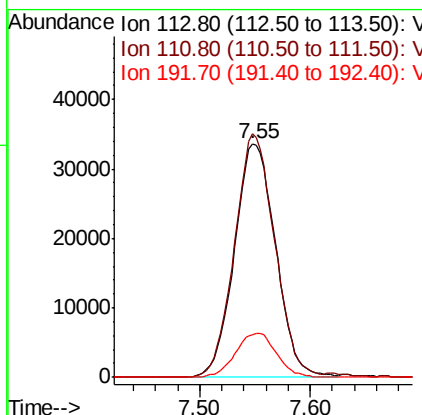
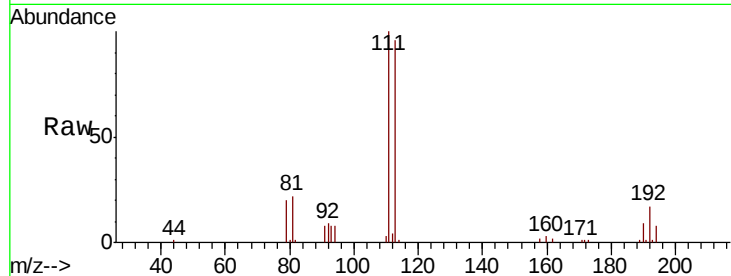




#35
 Dibromofluoromethane
 Concen: 50.562 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

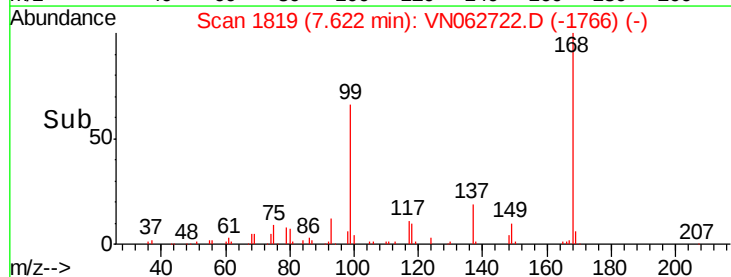
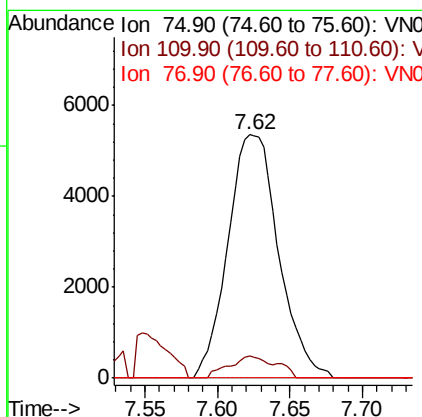
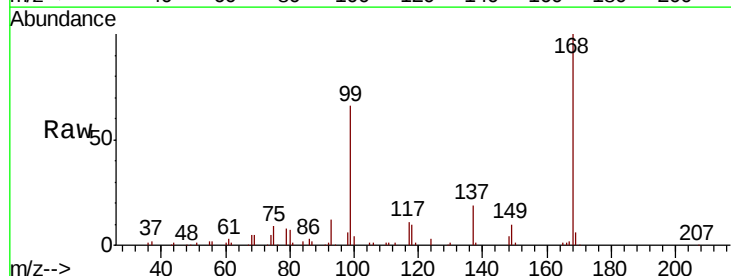
Instrument :
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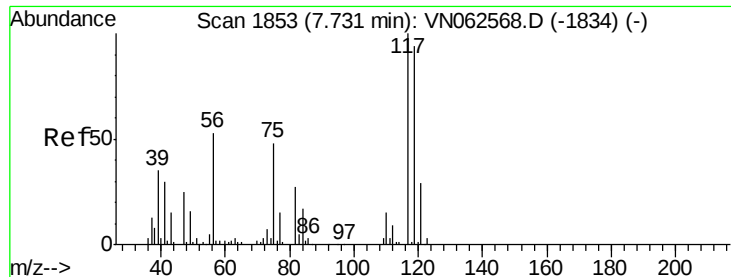
Tot Ion:113 Resp: 87342
 Ion Ratio Lower Upper
 113 100
 111 101.6 82.7 124.1
 192 18.6 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.646 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

Tgt Ion: 75 Resp: 13022
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.0 48.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.766 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

BFB

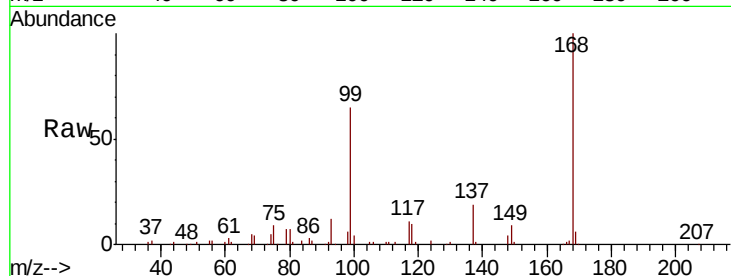
Tot Ion:117 Resp: 15537

Ion Ratio Lower Upper

117 100

119 6.0 74.8 112.2#

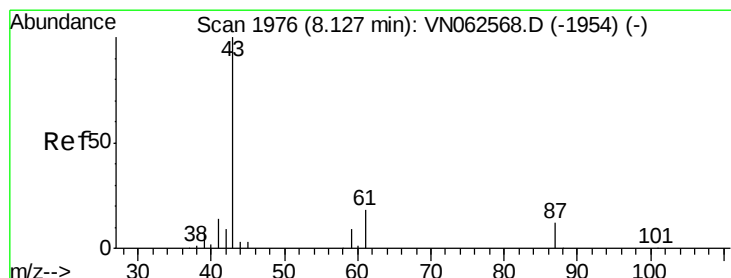
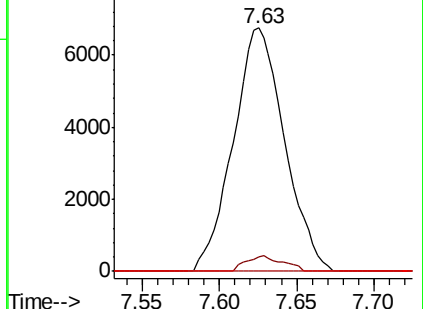
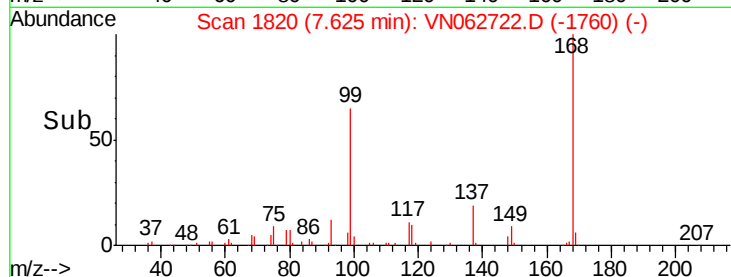
121 0.0 23.0 34.6#



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: 8.265 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

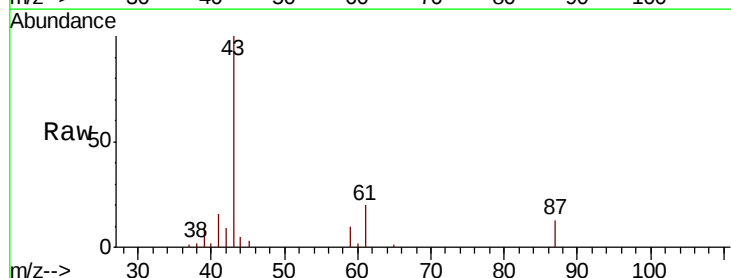
Tgt Ion: 43 Resp: 40258

Ion Ratio Lower Upper

43 100

61 19.2 20.8 31.2#

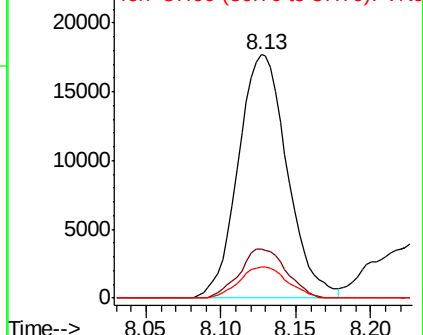
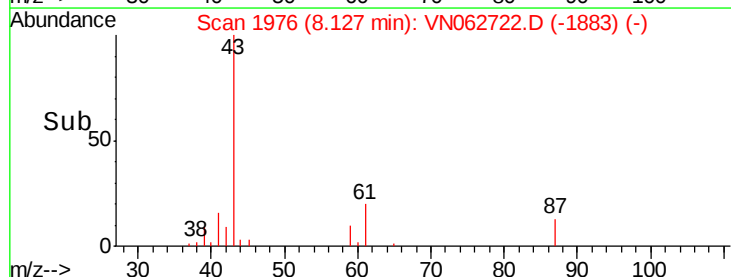
87 12.4 9.2 13.8

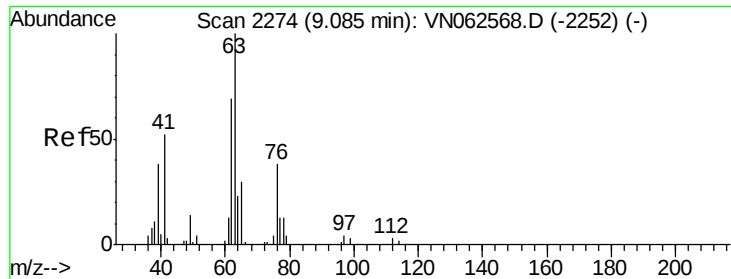


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

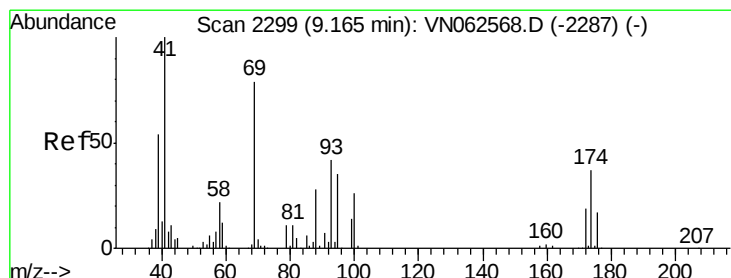
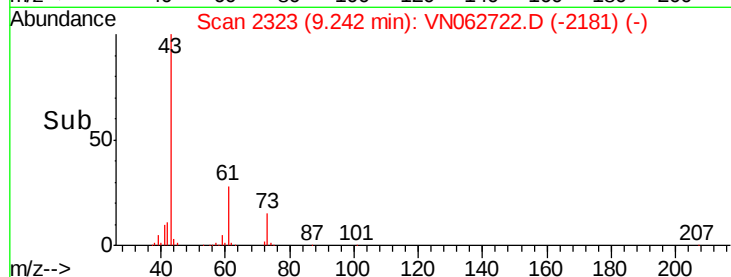
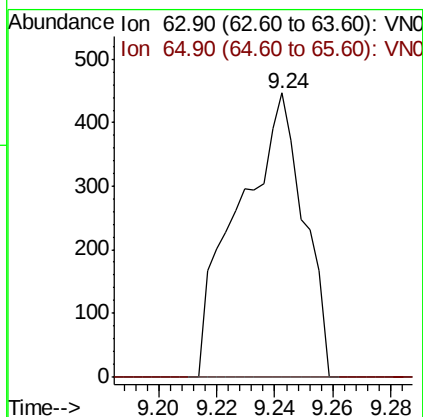
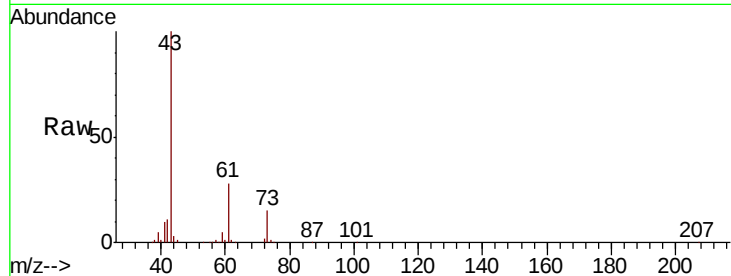




#45
 1,2-Dichloropropane
 Concen: 0.292 ug/l
 RT: 9.24 min Scan# 2323
 Delta R.T. 0.16 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

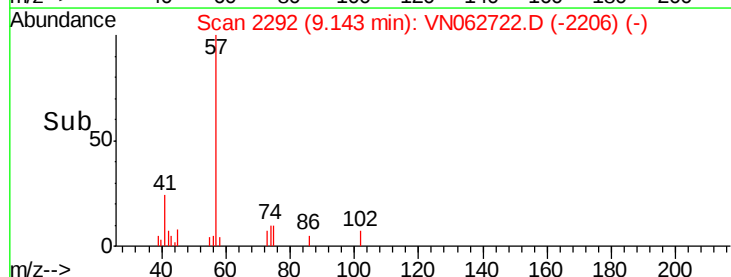
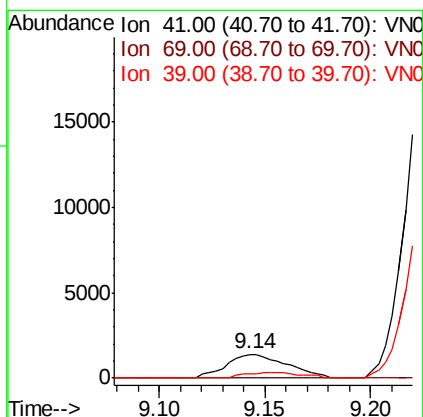
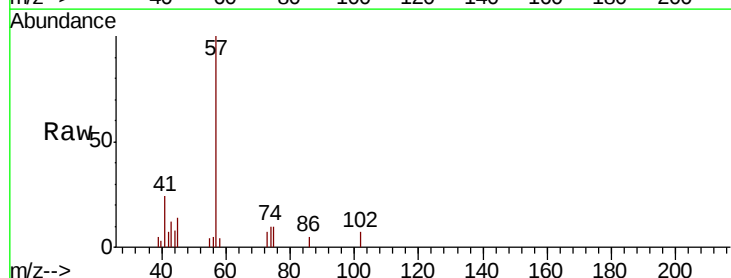
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

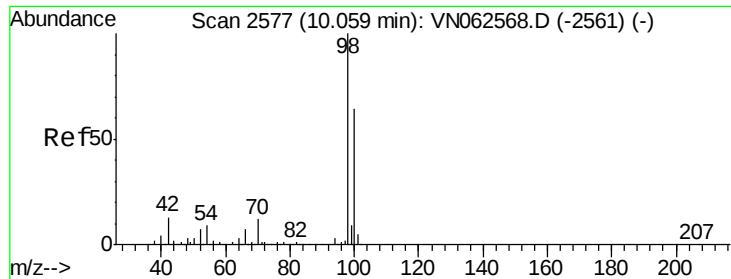
Tot Ion: 63 Resp: 695
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.207 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

Tgt Ion: 41 Resp: 2795
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#





#50

Toluene-d8

Concen: 50.964 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampled :

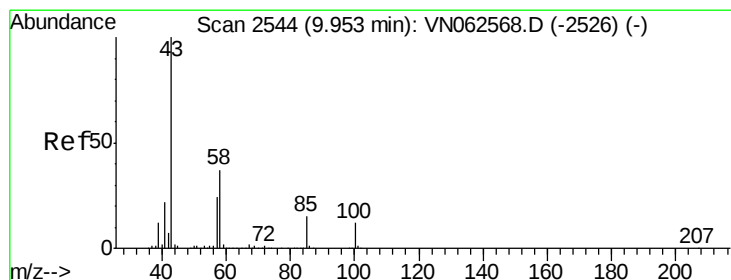
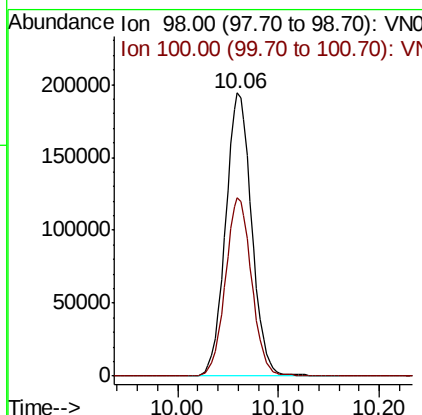
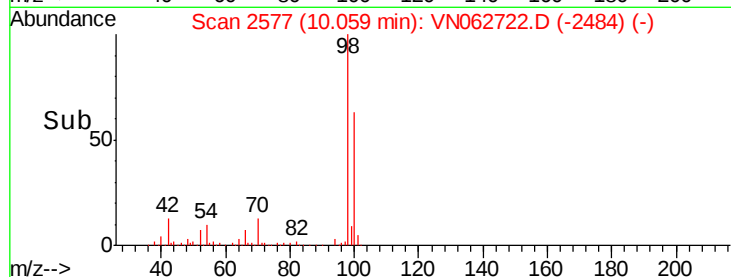
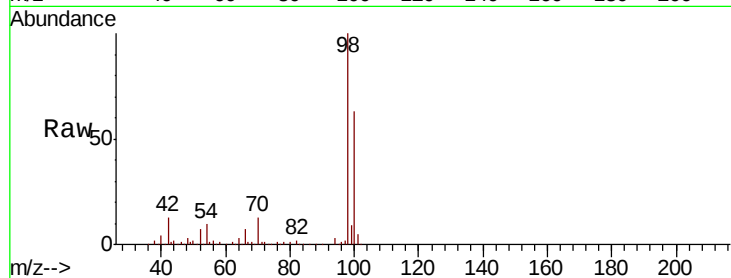
BFB

Tot Ion: 98 Resp: 351260

Ion Ratio Lower Upper

98 100

100 62.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.238 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062722.D

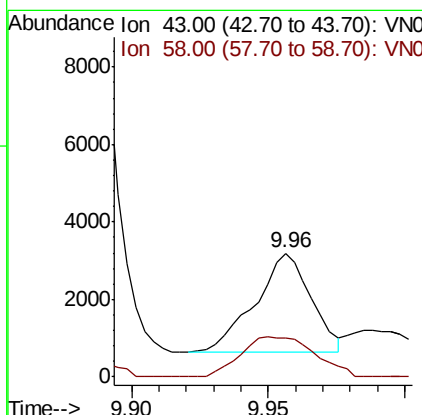
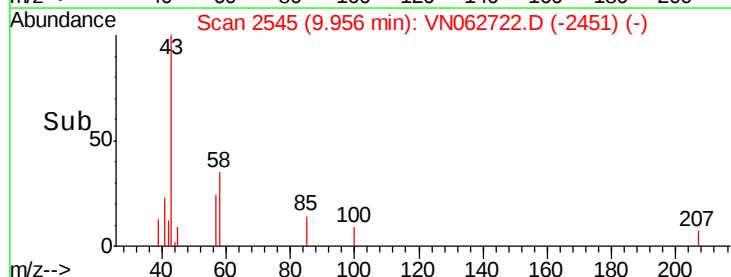
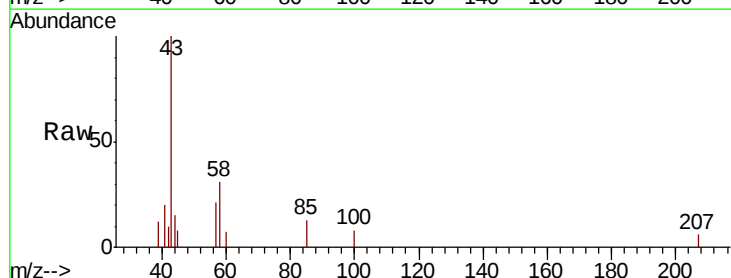
Acq: 1 Aug 2020 6:49

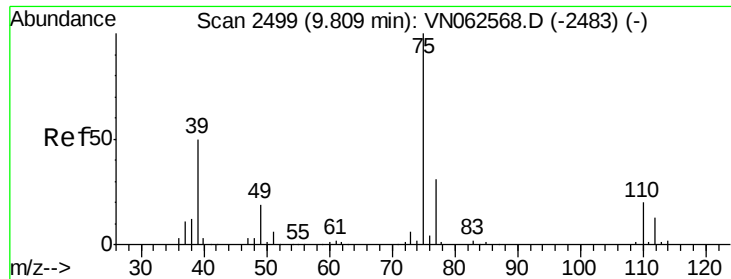
Tgt Ion: 43 Resp: 3607

Ion Ratio Lower Upper

43 100

58 53.8 29.8 44.6#

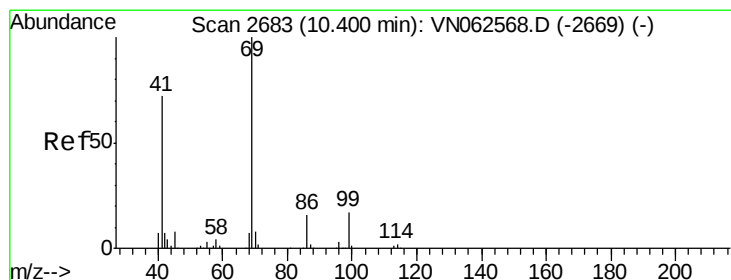
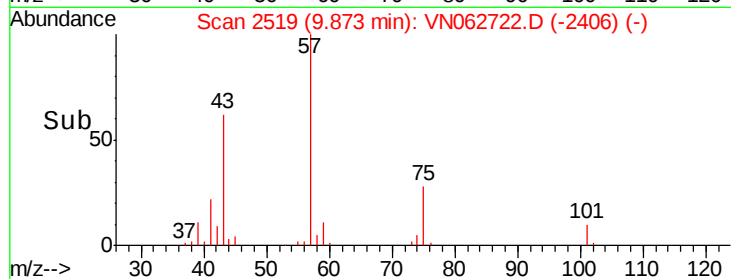
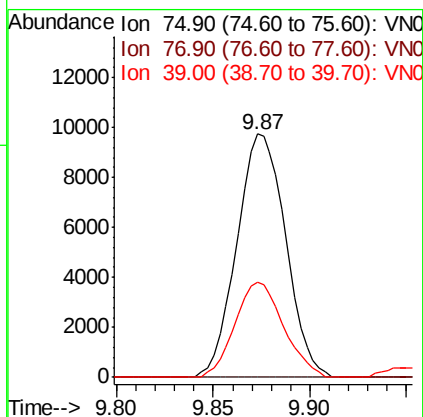
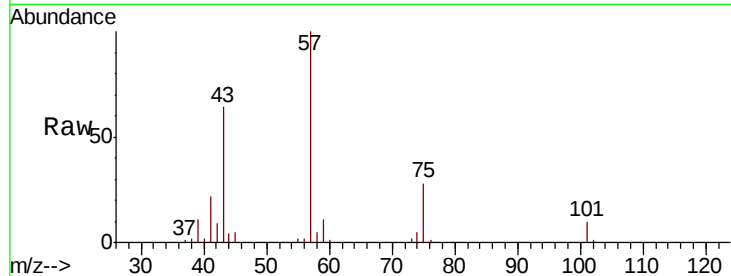




#54
 cis-1,3-Dichloropropene
 Concen: 4.781 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

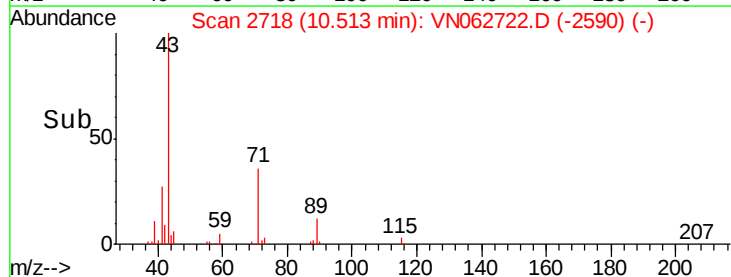
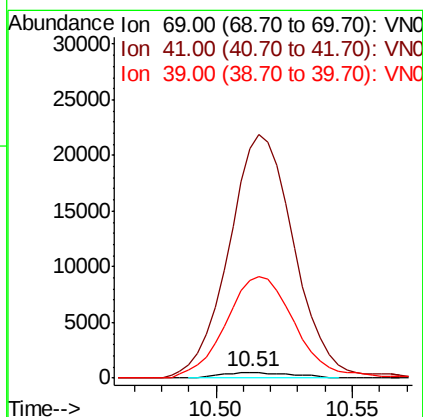
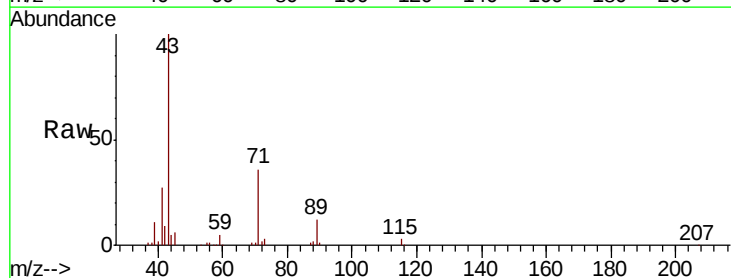
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

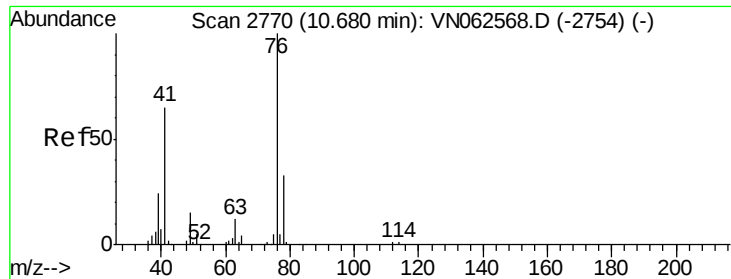
Tot Ion: 75 Resp: 17040
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 39.3 39.8 59.8#



#56
 Ethyl methacrylate
 Concen: 2.030 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

Tgt Ion: 69 Resp: 930
 Ion Ratio Lower Upper
 69 100
 41 3930.4 57.2 85.8#
 39 1733.4 28.6 43.0#

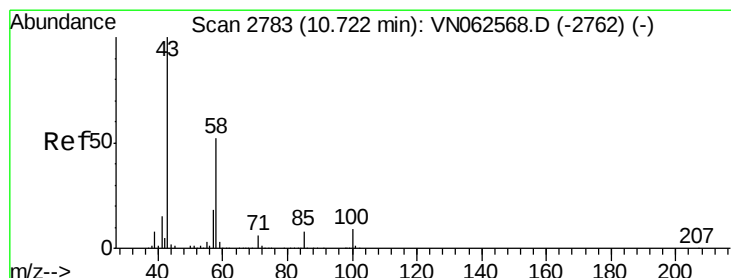
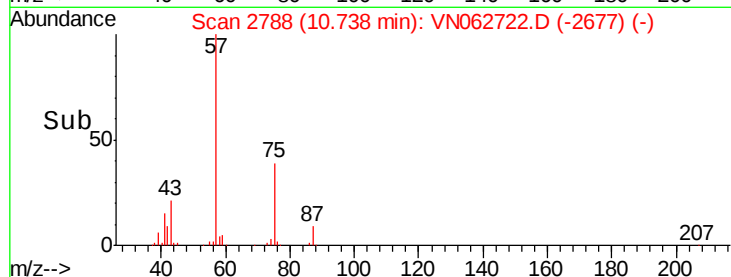
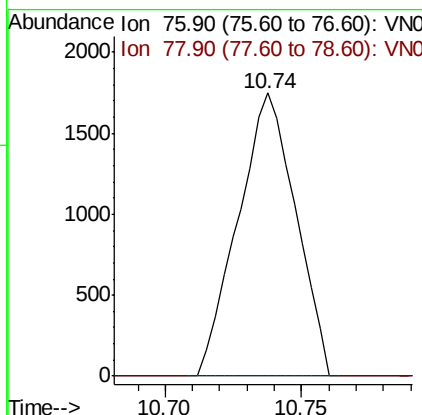
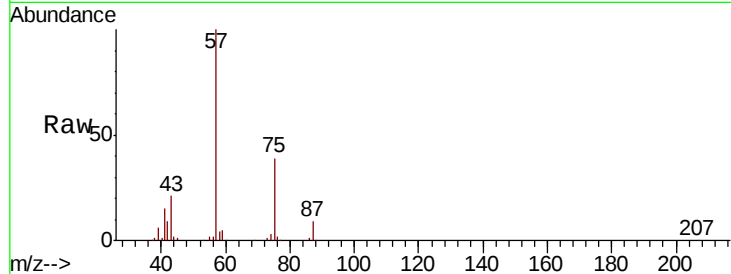




#57
 1,3-Dichloropropane
 Concen: 0.733 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

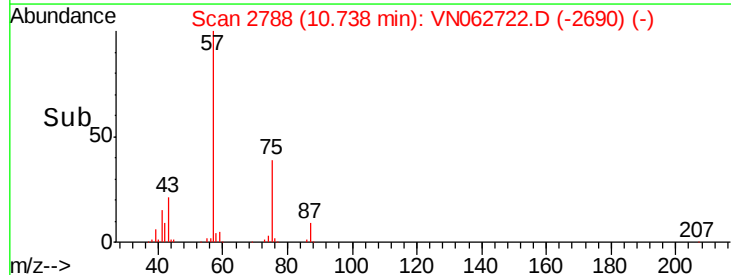
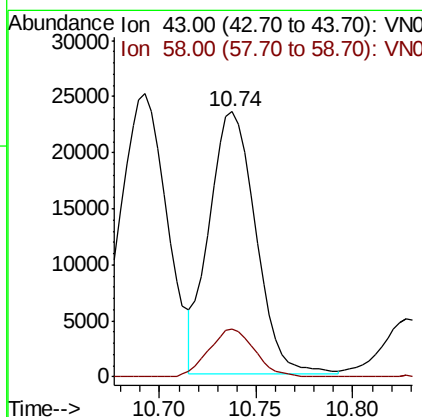
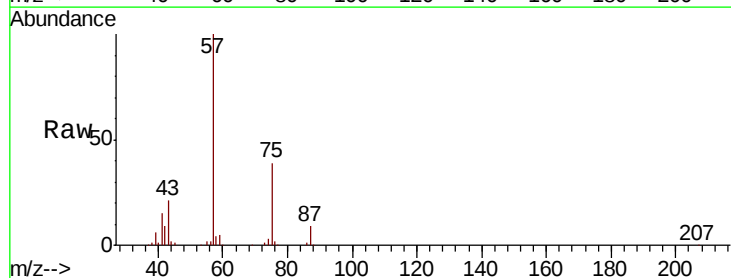
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Tot Ion: 76 Resp: 2568
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 20.161 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

Tgt Ion: 43 Resp: 39238
 Ion Ratio Lower Upper
 43 100
 58 17.9 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 49.537 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

BFB

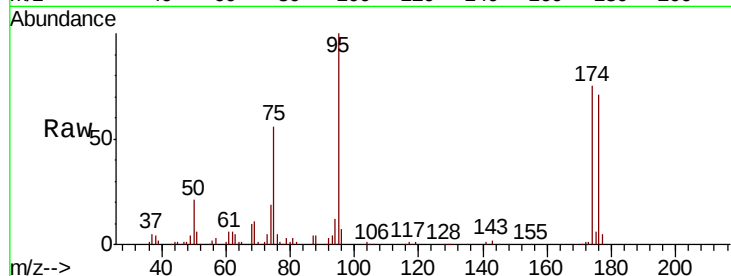
Tot Ion: 95 Resp: 124839

Ion Ratio Lower Upper

95 100

174 73.3 0.0 144.6

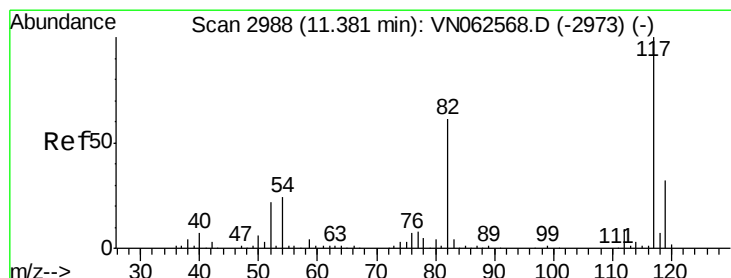
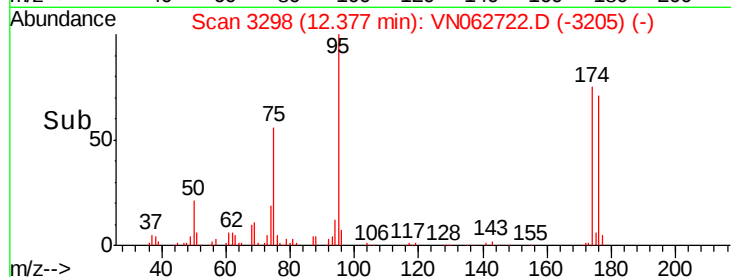
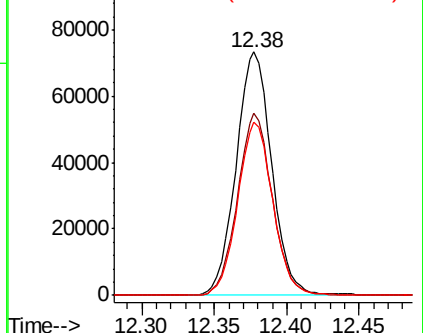
176 70.4 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062722.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062722.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062722.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

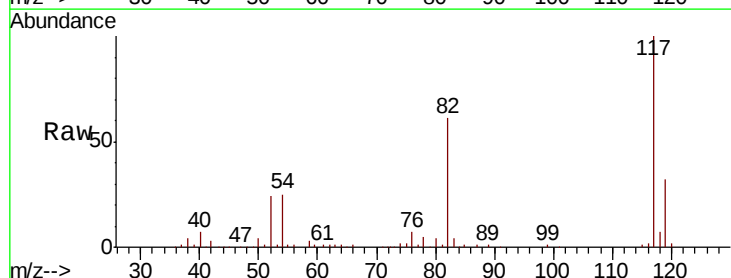
Tgt Ion: 117 Resp: 264704

Ion Ratio Lower Upper

117 100

82 60.9 49.0 73.6

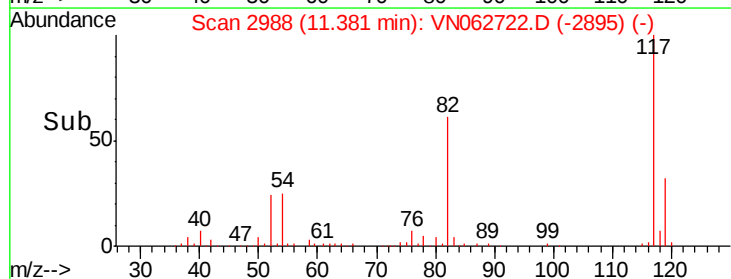
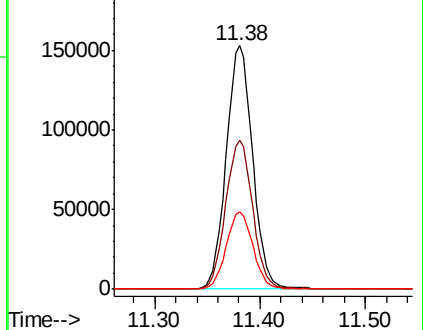
119 31.6 25.4 38.2

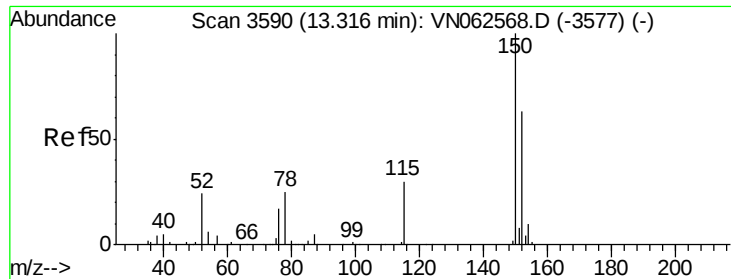


Abundance Ion 116.90 (116.60 to 117.60): VN062722.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062722.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062722.D (-2895) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

BFB

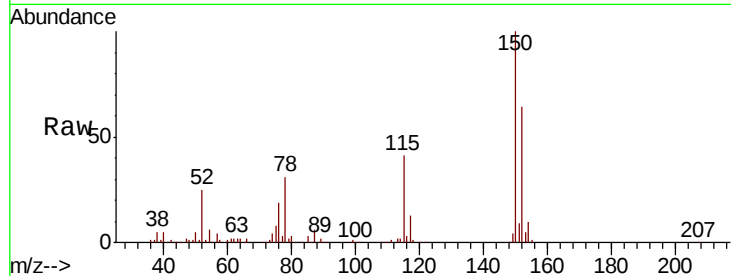
Tot Ion:152 Resp: 96425

Ion Ratio Lower Upper

152 100

115 64.1 31.8 95.4

150 158.2 0.0 351.4

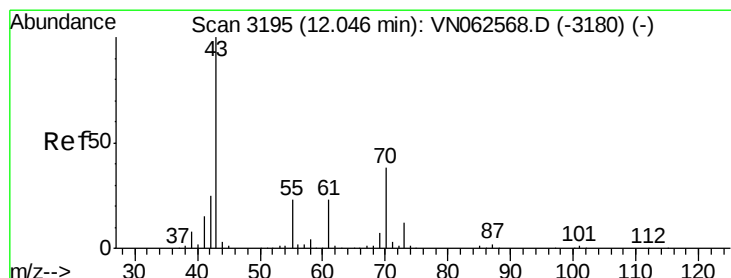
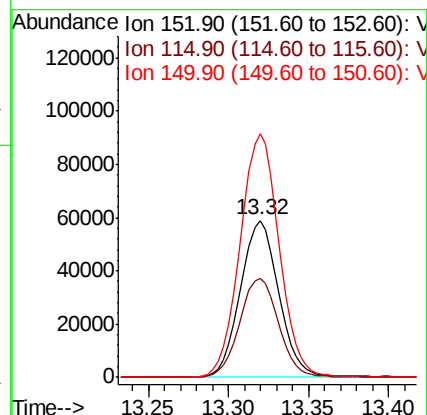
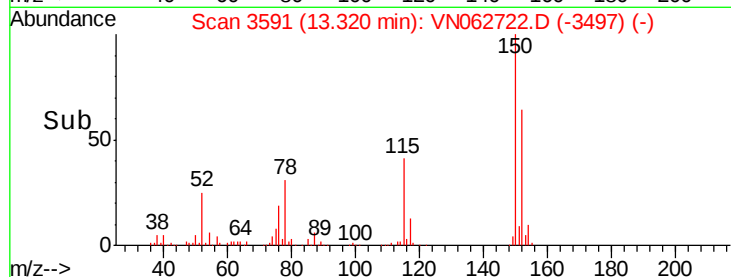


Abundance

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-ethyl acetate

Concen: 0.369 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Tgt Ion: 43 Resp: 1257

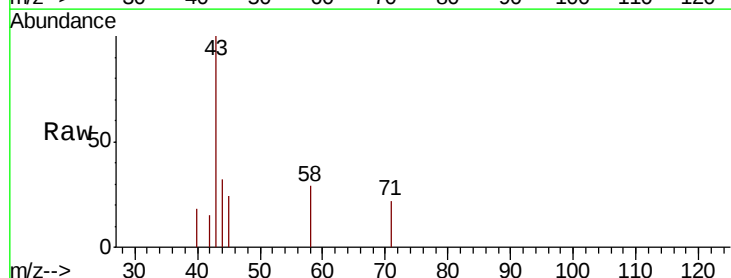
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#



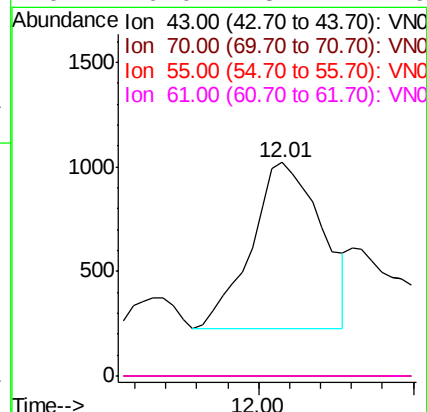
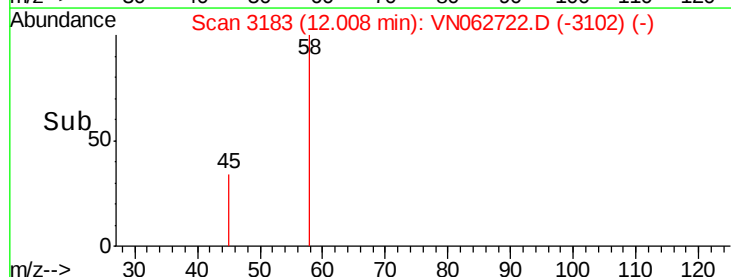
Abundance

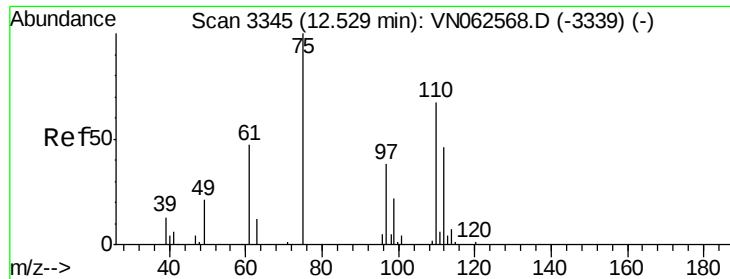
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

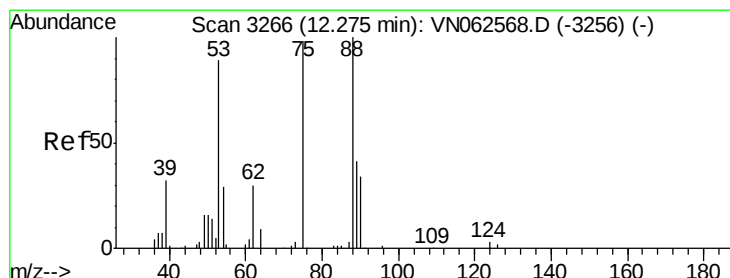
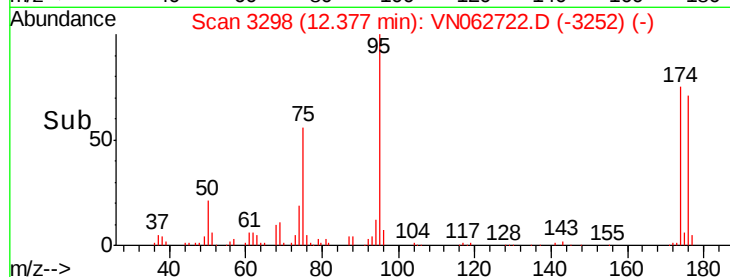
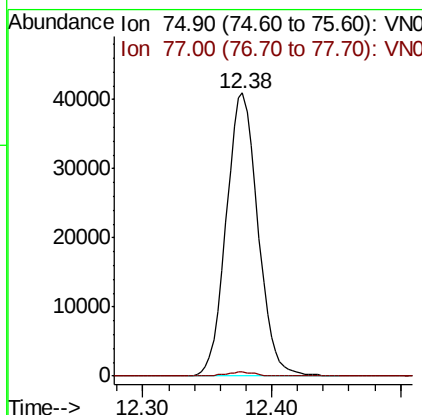
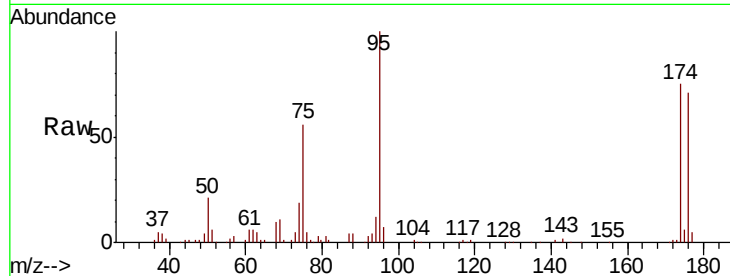




#76
 1,2,3-Trichloropropane
 Concen: 28.420 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

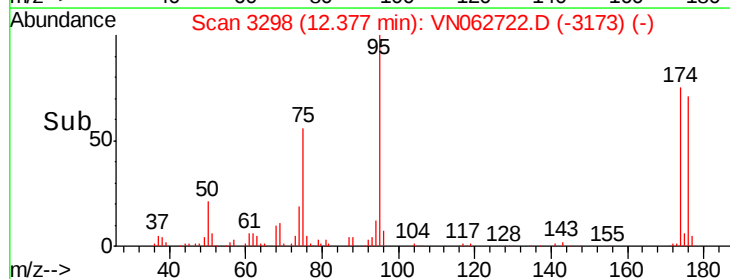
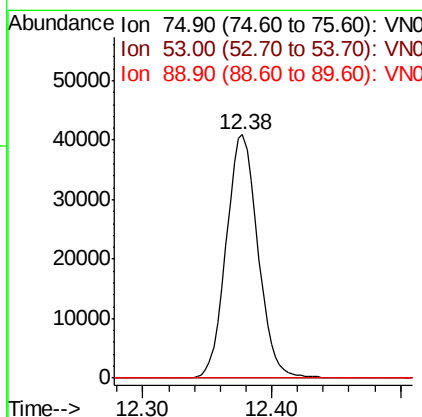
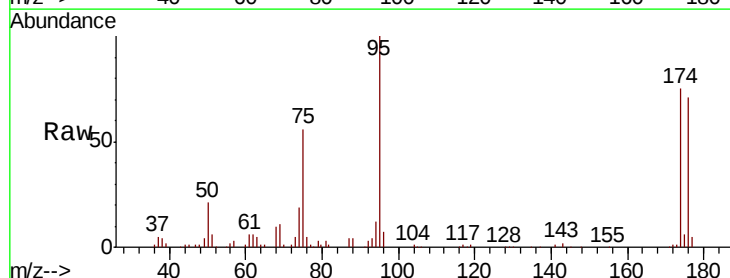
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

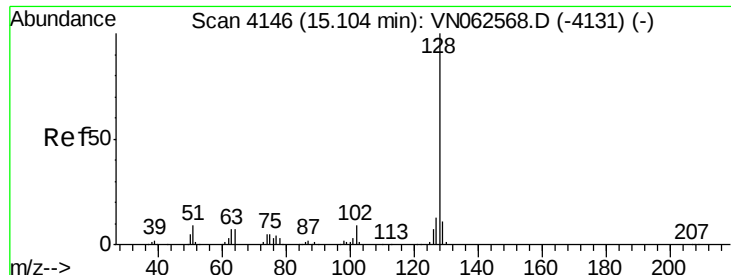
Tot Ion: 75 Resp: 69752
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.114 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062722.D
 Acq: 1 Aug 2020 6:49

Tgt Ion: 75 Resp: 69752
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 3.930 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062722.D

Acq: 1 Aug 2020 6:49

Instrument :

MSVOA_N

ClientSampleId :

BFB

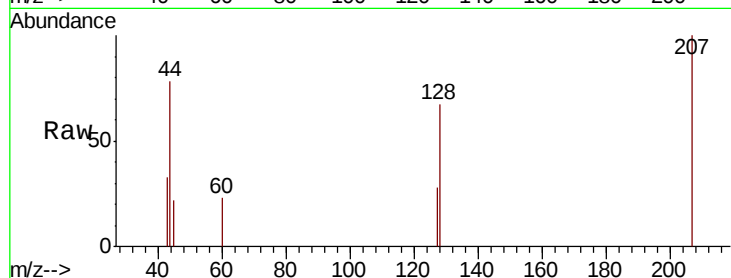
Tot Ion:128 Resp: 780

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 0.0 8.7 13.1



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

