

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062325.D
 Acq On : 2 Jul 2020 6:21
 Operator : JC/MD
 Sample : L3151-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Jul 02 08:28:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	196555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	413900	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	411195	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	144916	50.00	ug/l	0.00

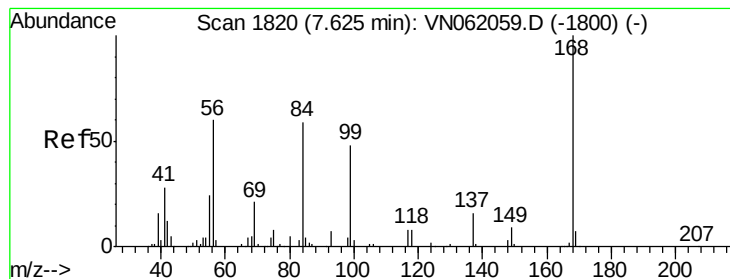
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	164286	59.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.12%	
35) Dibromofluoromethane	7.55	113	131320	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
50) Toluene-d8	10.06	98	540907	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.38	95	176538	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	

Target Compounds

						Qvalue
3) Chloromethane	2.03	50	109	Below Cal	#	41
11) Tert butyl alcohol	4.73	59	150	0.379	ug/l #	72
16) Acetone	3.78	43	14272	12.638	ug/l	95
18) Methyl Acetate	4.29	43	6985	3.186	ug/l #	86
20) Methylene Chloride	4.50	84	22145	8.566	ug/l	94
25) 2-Butanone	6.80	43	6253	4.638	ug/l #	80
31) Cyclohexane	7.63	56	4975	1.305	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	17823	4.284	ug/l #	45
37) Ethyl Acetate	6.80	43	6253	1.815	ug/l #	66
38) Carbon Tetrachloride	7.63	117	20507	5.228	ug/l #	16
43) Isopropyl Acetate	8.13	43	50843	9.053	ug/l	98
44) Trichloroethene	8.81	130	1099	0.344	ug/l	91
45) 1,2-Dichloropropane	9.24	63	1452	0.464	ug/l #	43
48) Methyl methacrylate	9.14	41	4201	1.668	ug/l #	6
49) 1,4-Dioxane	9.24	88	63	1.128	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	4984	1.519	ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	22478	4.481	ug/l #	68
56) Ethyl methacrylate	10.52	69	1626	0.401	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	4467	0.853	ug/l #	42
59) 2-Hexanone	10.74	43	61144	25.807	ug/l #	50
71) Bromoform	12.38	173	1610	0.725	ug/l #	1
74) N-amyl acetate	12.01	43	2440	3.895	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	91517	26.827	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	91517	78.343	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampled :

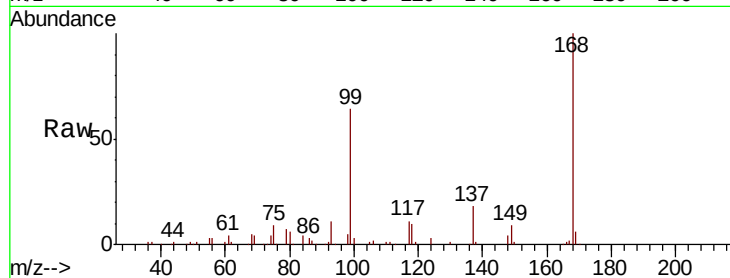
BFB

Tot Ion:168 Resp: 196555

Ion Ratio Lower Upper

168 100

99 63.7 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

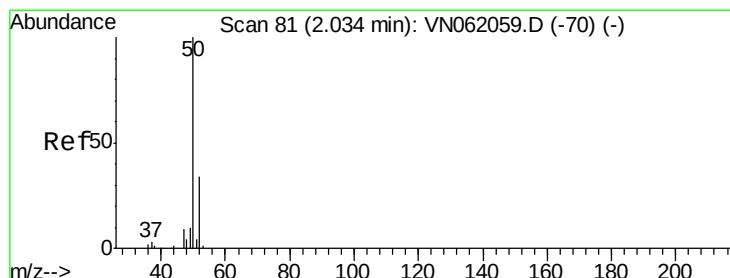
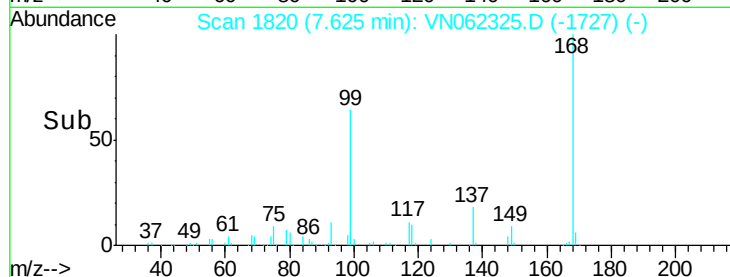
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062325.D

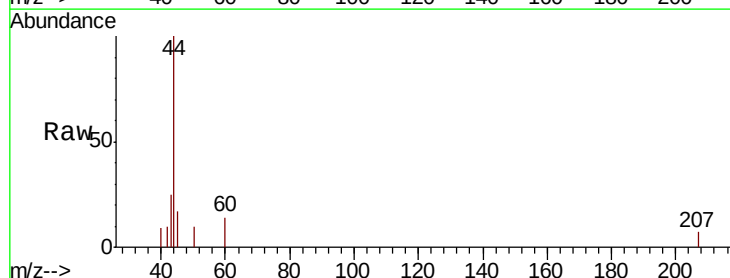
Acq: 2 Jul 2020 6:21

Tgt Ion: 50 Resp: 109

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

250

200

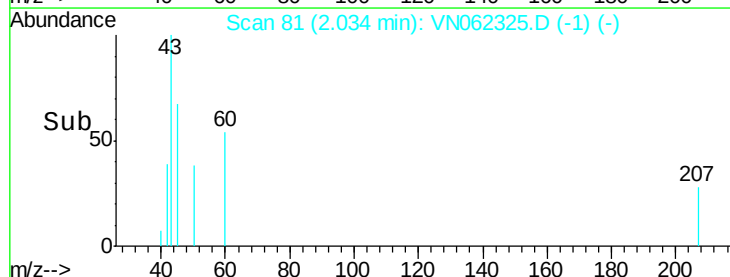
150

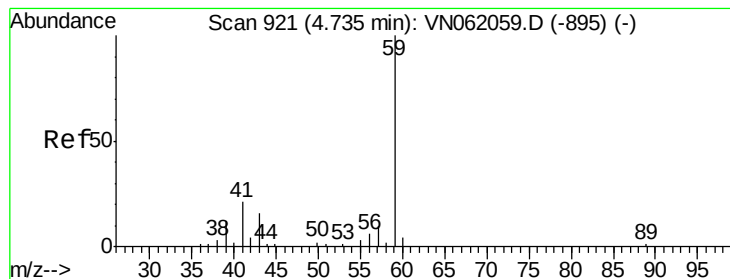
100

50

0

Time--> 2.02 2.03 2.04 2.05





#11

Tert butyl alcohol

Concen: 0.379 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampleId :

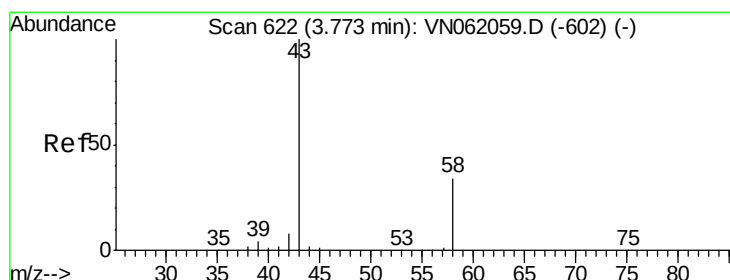
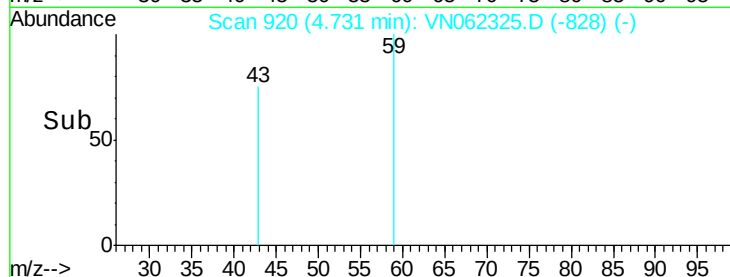
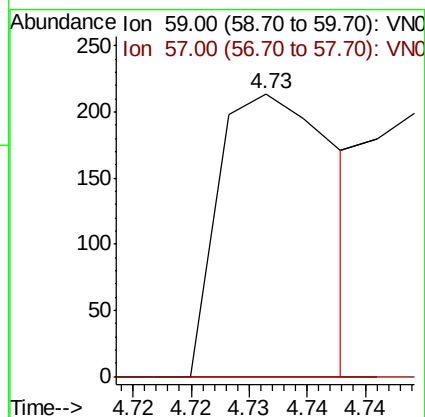
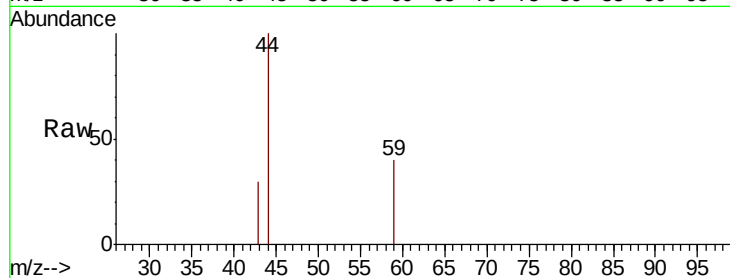
BFB

Tot Ion: 59 Resp: 150

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 12.638 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062325.D

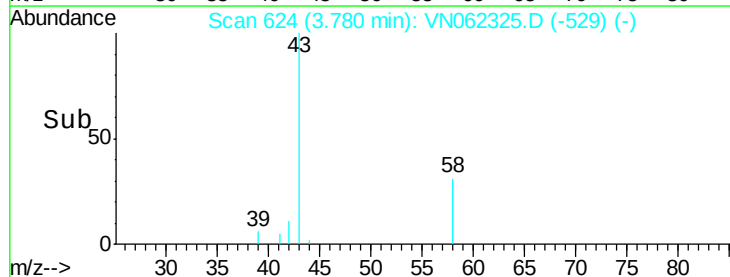
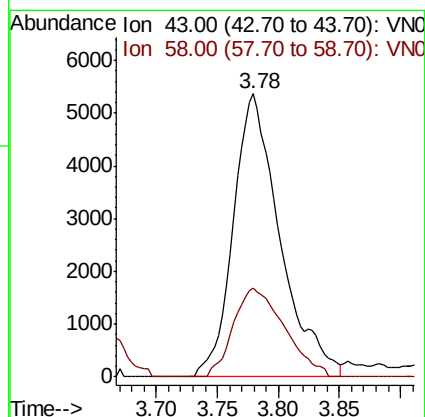
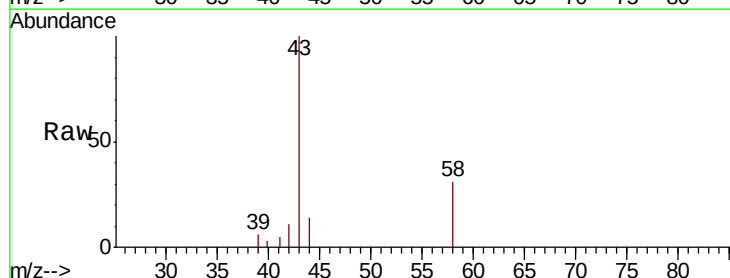
Acq: 2 Jul 2020 6:21

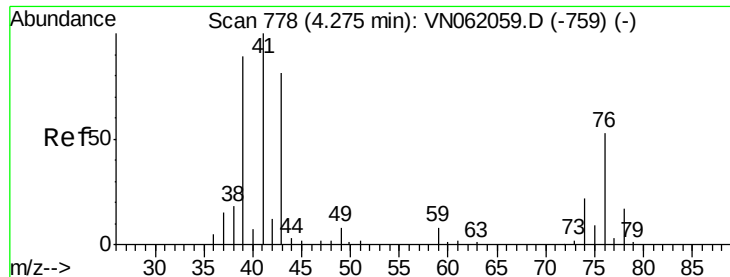
Tgt Ion: 43 Resp: 14272

Ion Ratio Lower Upper

43 100

58 31.2 27.5 41.3

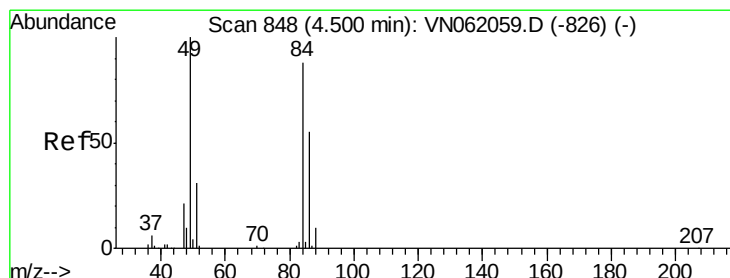
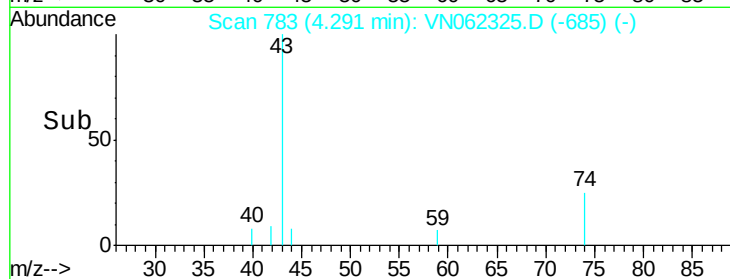
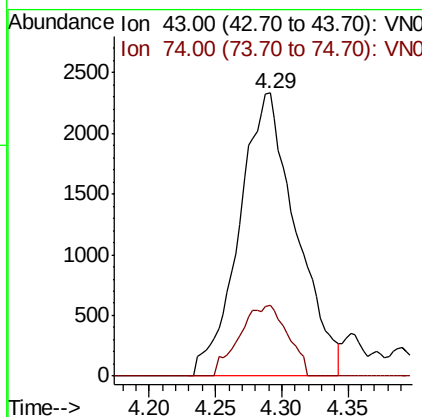
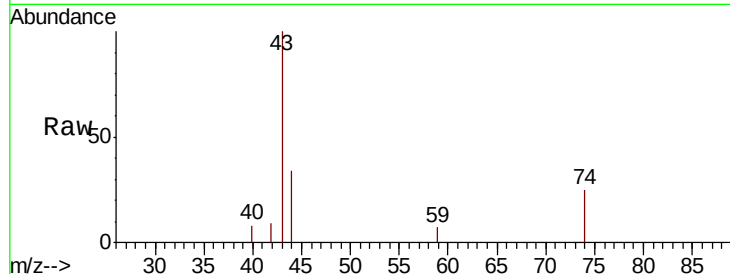




#18
Methyl Acetate
Concen: 3.186 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.02 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

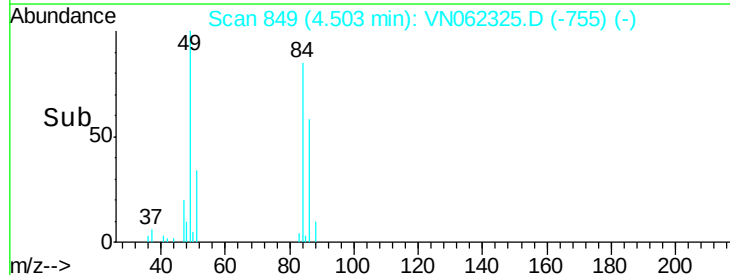
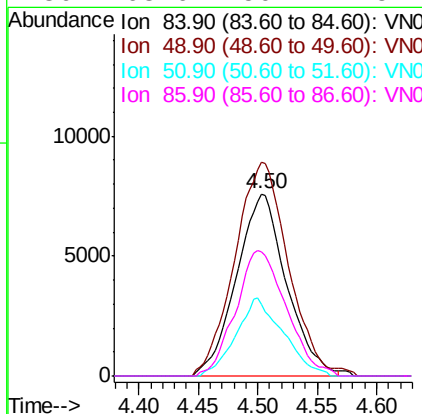
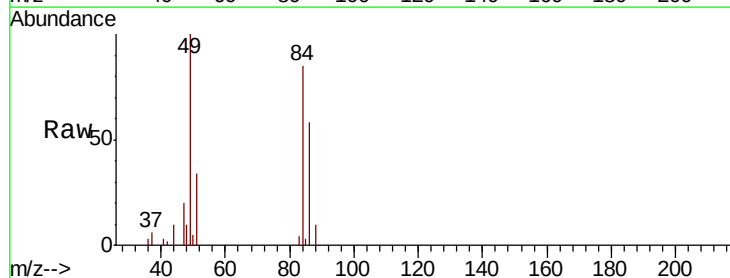
Instrument :
MSVOA_N
ClientSampled :
BFB

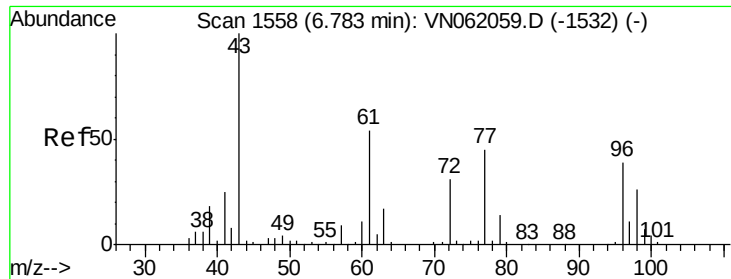
Tot Ion: 43 Resp: 6985
Ion Ratio Lower Upper
43 100
74 21.2 22.9 34.3#



#20
Methylene Chloride
Concen: 8.566 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

Tgt Ion: 84 Resp: 22145
Ion Ratio Lower Upper
84 100
49 117.5 90.6 136.0
51 39.7 27.8 41.8
86 68.6 50.1 75.1

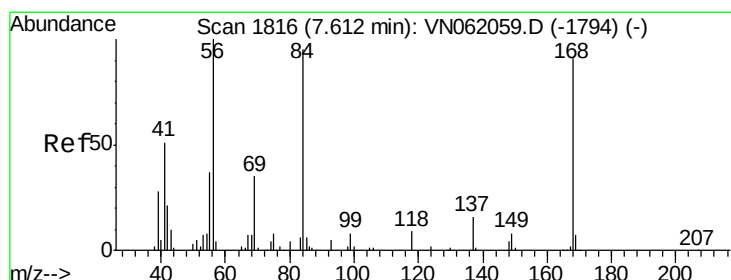
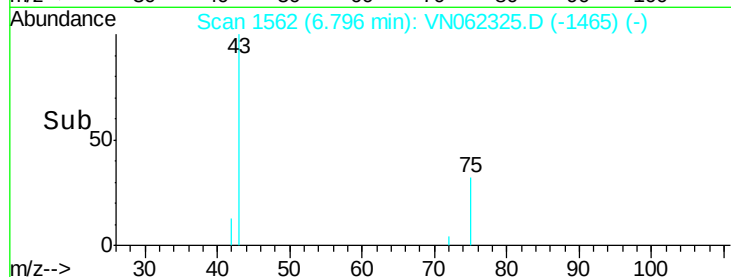
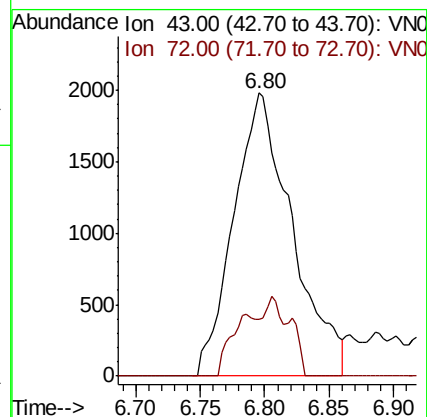
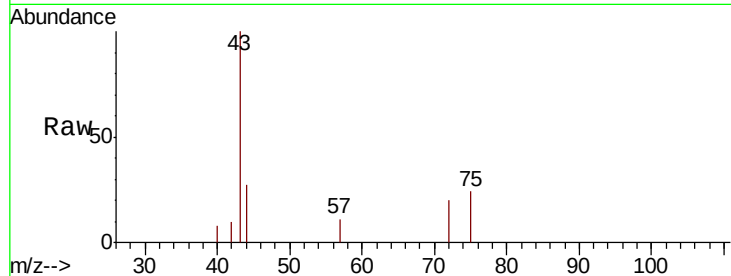




#25
2-Butanone
Concen: 4.638 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

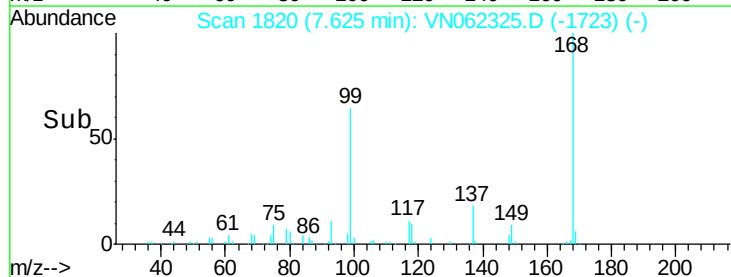
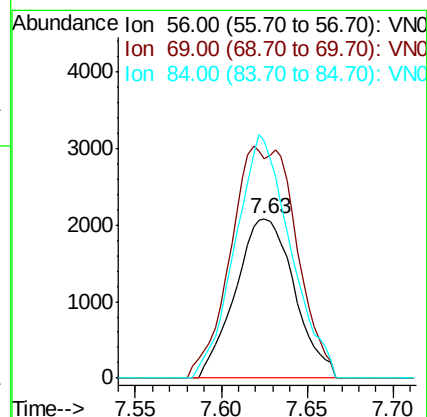
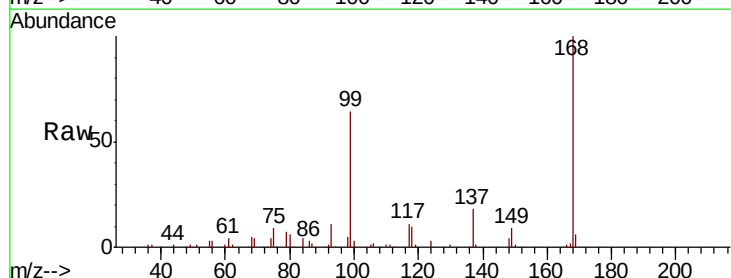
Instrument :
MSVOA_N
ClientSampleId :
BFB

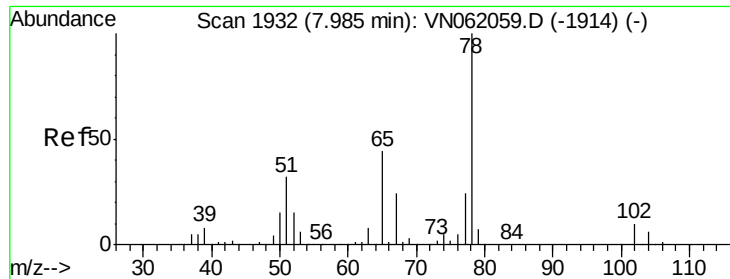
Tot Ion: 43 Resp: 6253
Ion Ratio Lower Upper
43 100
72 19.9 24.8 37.2#



#31
Cyclohexane
Concen: 1.305 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

Tgt Ion: 56 Resp: 4975
Ion Ratio Lower Upper
56 100
69 137.7 28.0 42.0#
84 149.0 76.1 114.1#

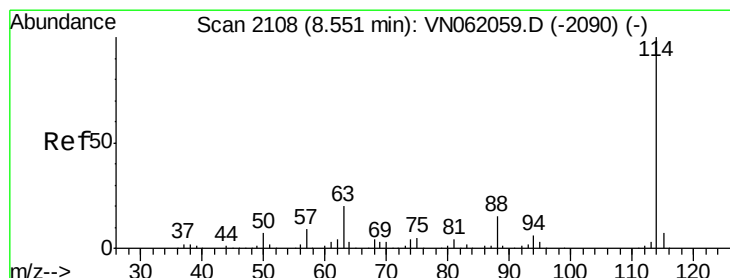
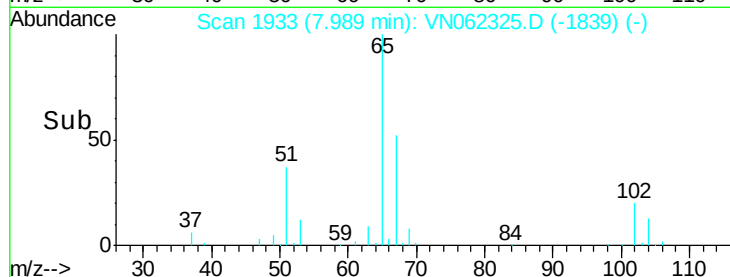
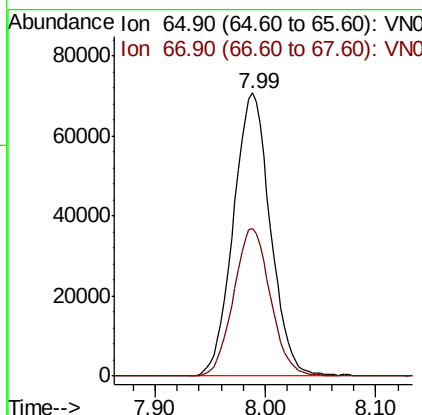
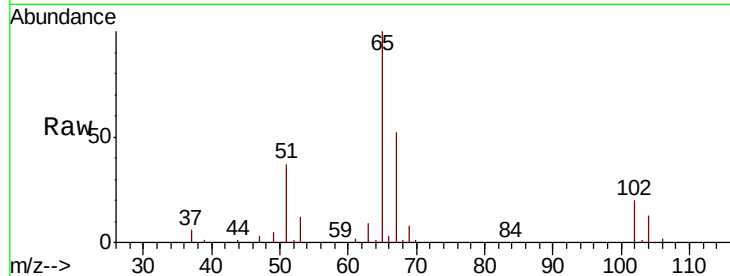




#33
 1,2-Dichloroethane-d4
 Concen: 59.560 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

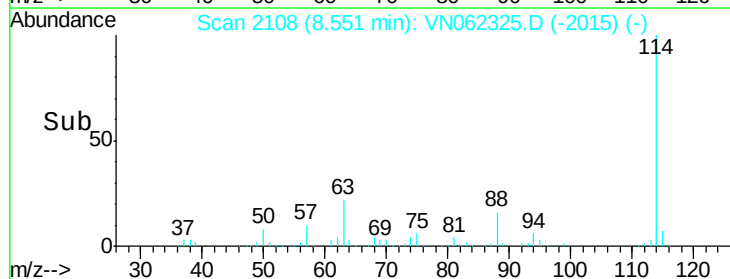
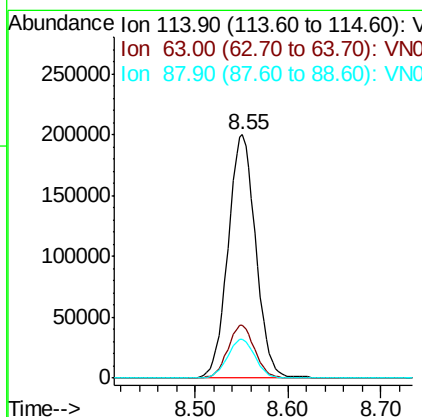
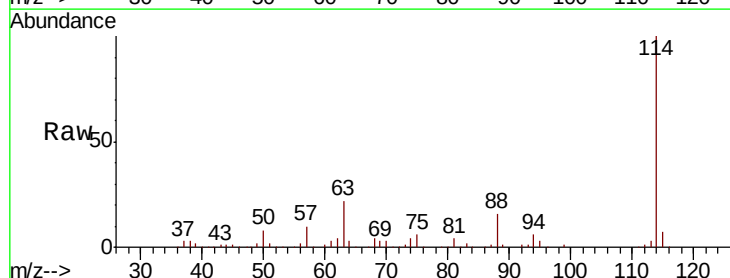
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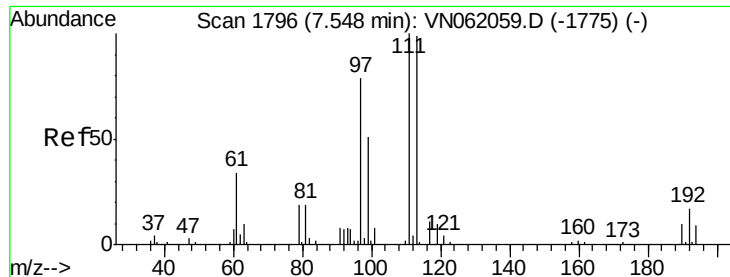
Tot Ion: 65 Resp: 164286
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Tgt Ion: 114 Resp: 413900
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 39.2
 88 16.0 0.0 30.8

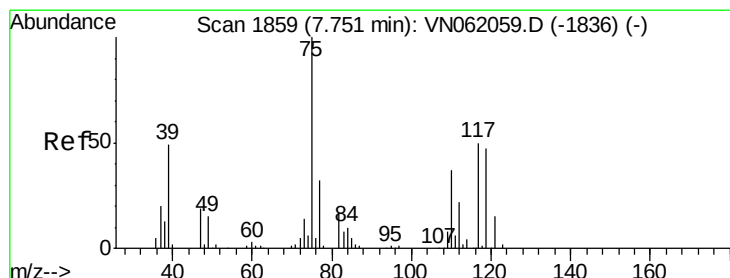
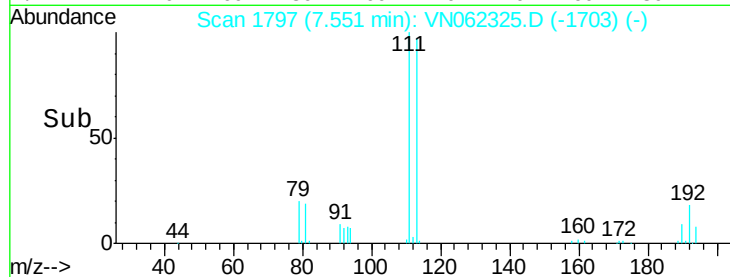
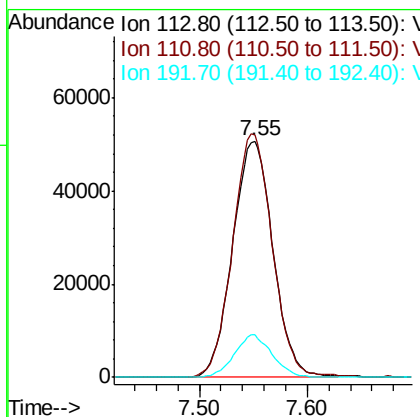
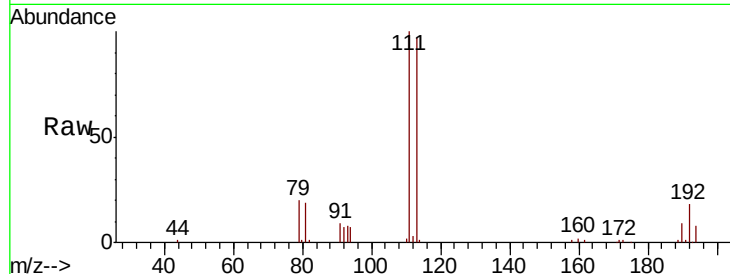




#35
 Dibromofluoromethane
 Concen: 49.455 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

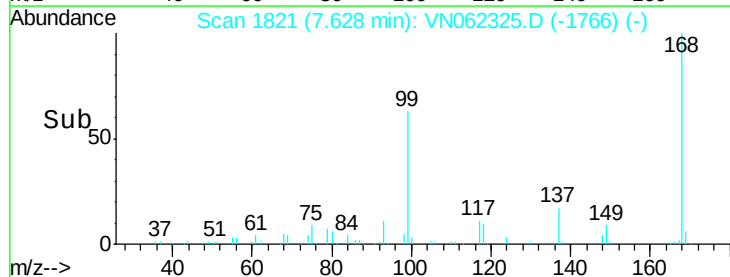
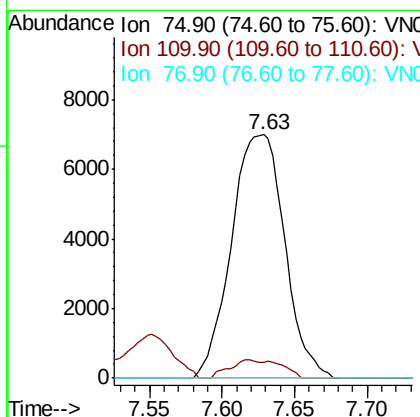
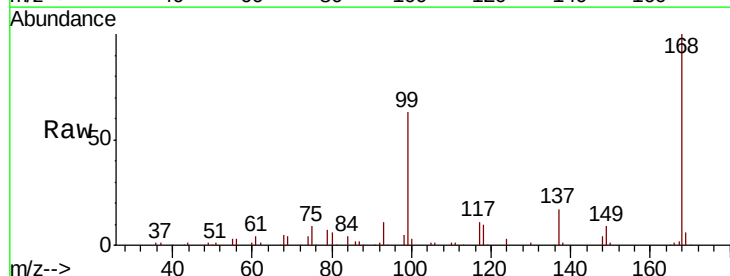
Instrument :
 MSVOA_N
 ClientSampleId :
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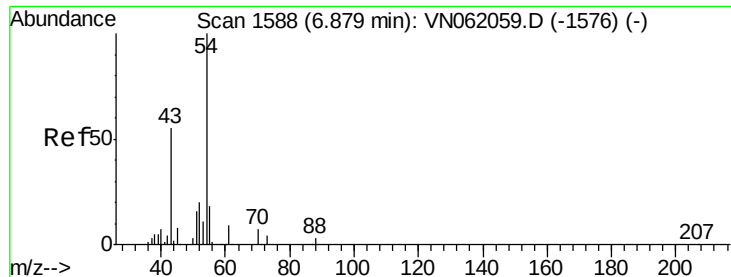
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	16.8	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.284 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.0	17.9	53.8#
77	0.0	24.9	37.3#

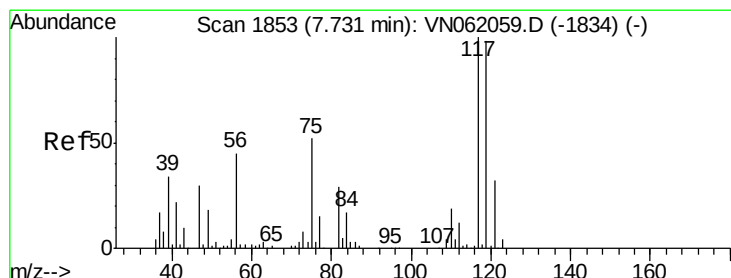
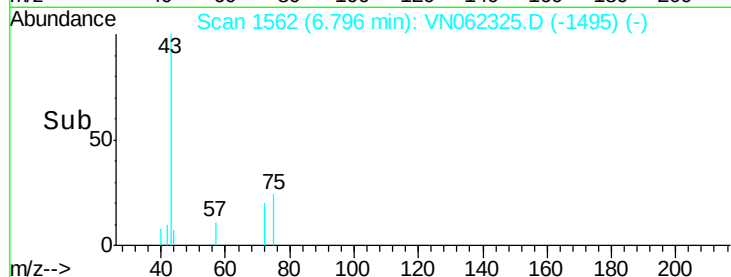
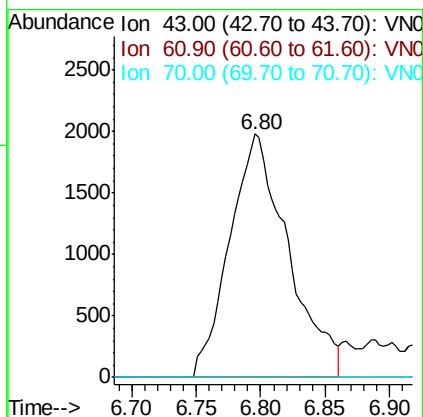
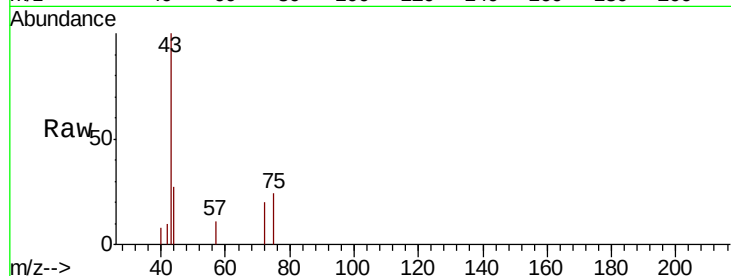




#37
Ethyl Acetate
Concen: 1.815 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.08 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

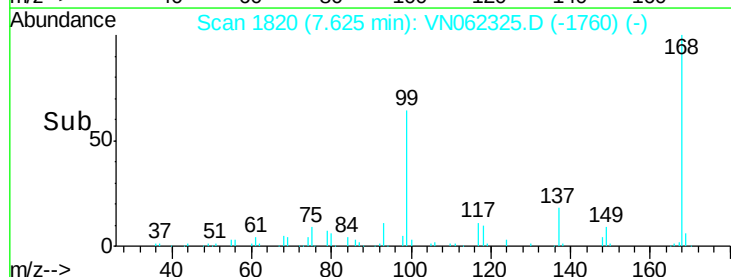
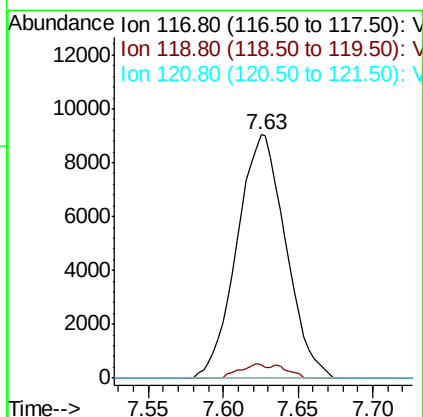
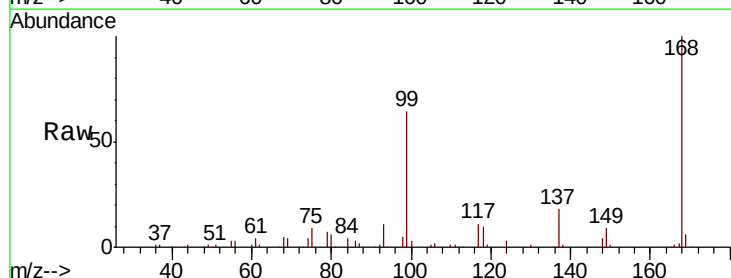
Instrument :
MSVOA_N
ClientSampled :
BFB

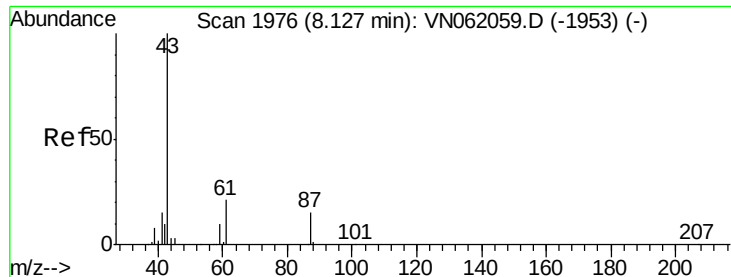
Tot Ion: 43 Resp: 6253
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 9.6 14.4#



#38
Carbon Tetrachloride
Concen: 5.228 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

Tgt Ion: 117 Resp: 20507
Ion Ratio Lower Upper
117 100
119 5.6 78.2 117.2#
121 0.0 25.8 38.6#





#43

Isopropyl Acetate

Concen: 9.053 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampled :

BFB

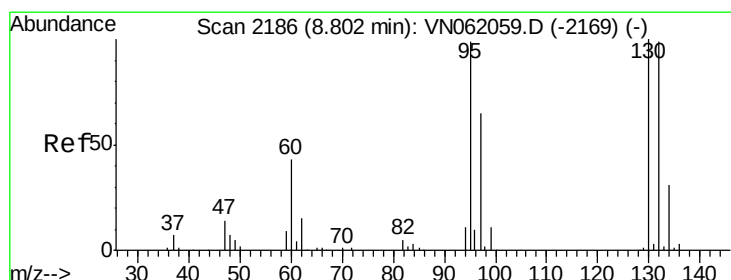
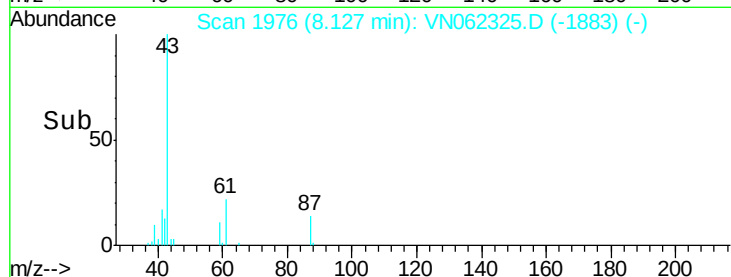
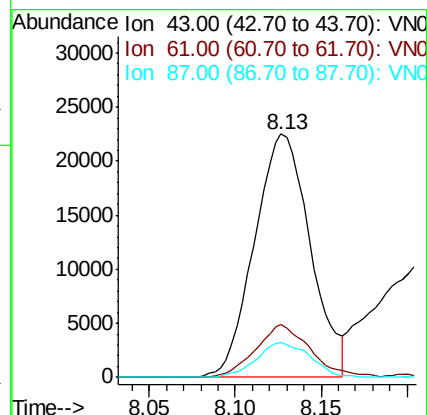
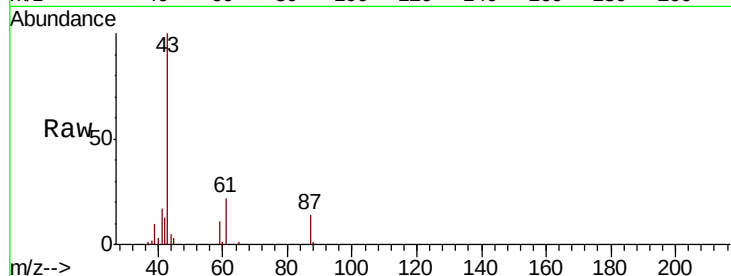
Tot Ion: 43 Resp: 50843

Ion Ratio Lower Upper

43 100

61 21.2 17.2 25.8

87 13.7 12.1 18.1



#44

Trichloroethene

Concen: 0.344 ug/l

RT: 8.81 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VN062325.D

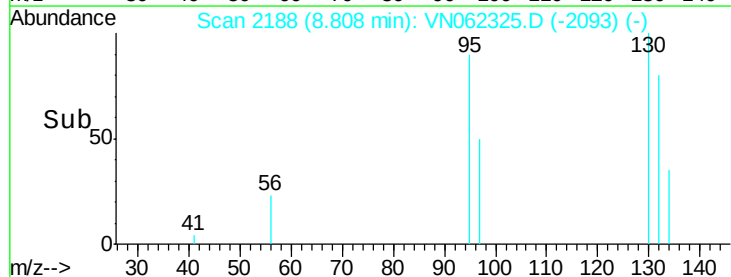
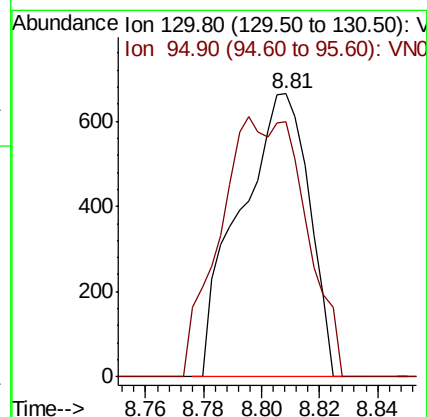
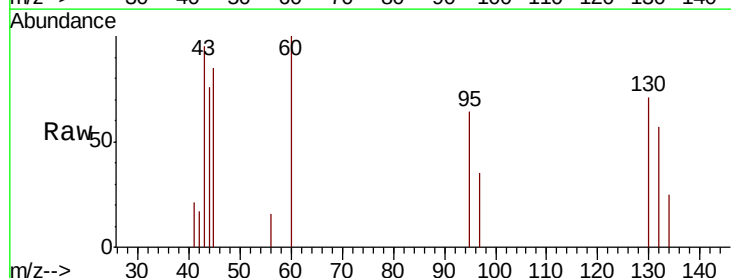
Acq: 2 Jul 2020 6:21

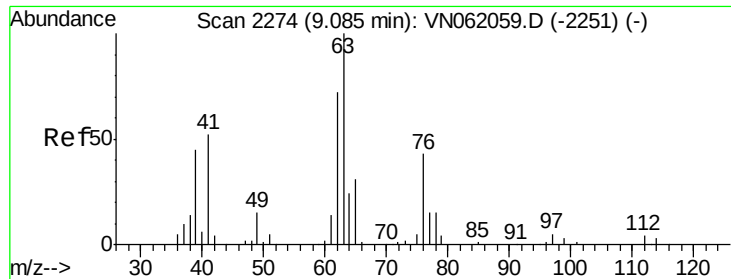
Tgt Ion: 130 Resp: 1099

Ion Ratio Lower Upper

130 100

95 90.2 0.0 197.8

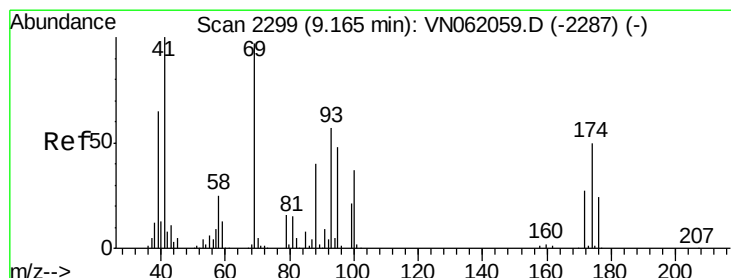
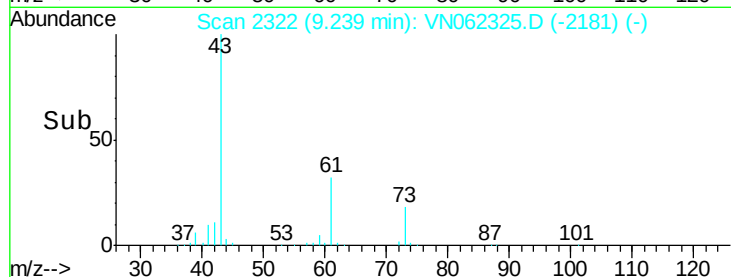
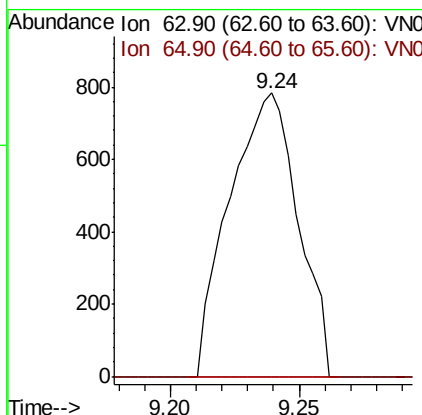
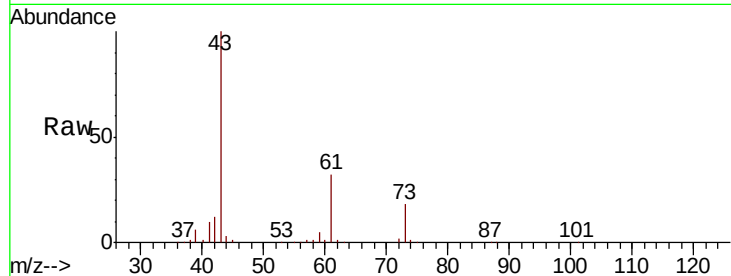




#45
 1,2-Dichloropropane
 Concen: 0.464 ug/l
 RT: 9.24 min Scan# 2322
 Delta R.T. 0.15 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

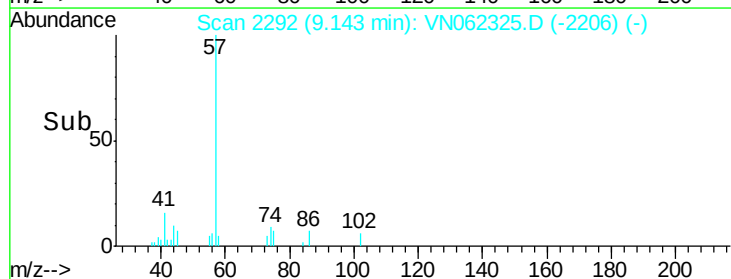
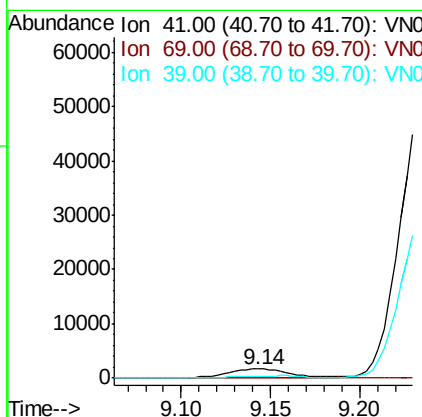
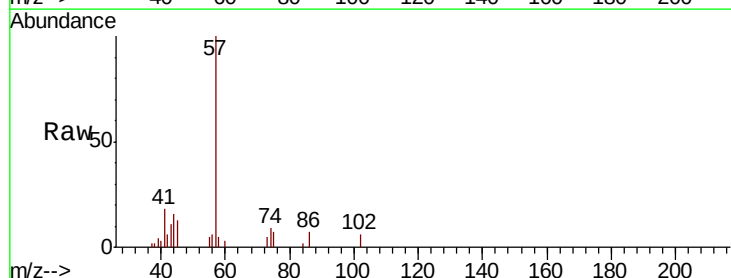
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

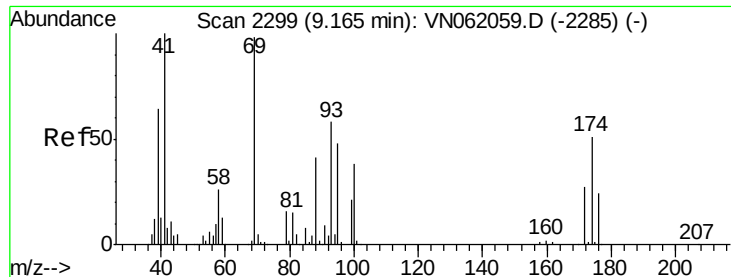
Tot Ion: 63 Resp: 1452
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.668 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Tgt Ion: 41 Resp: 4201
 Ion Ratio Lower Upper
 41 100
 69 0.0 80.7 121.1#
 39 0.0 54.5 81.7#





#49

1,4-Dioxane

Concen: 1.128 ug/l

RT: 9.24 min Scan# 2323

Delta R.T. 0.08 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampled :

BFB

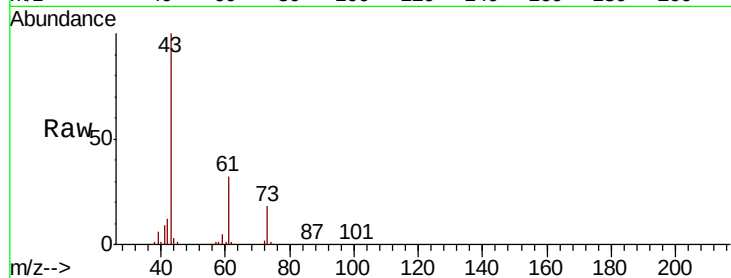
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 1523876.2 22.0 33.0#

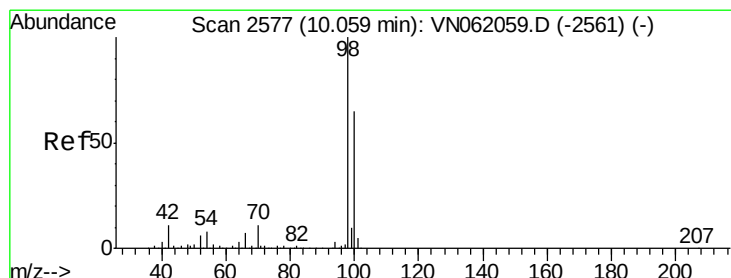
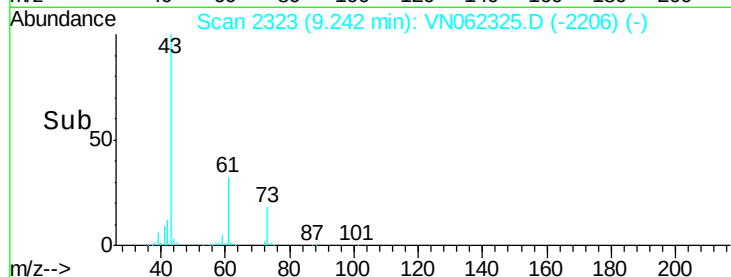
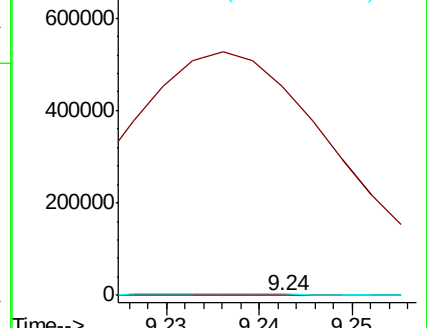
58 8965.1 49.2 73.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.960 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062325.D

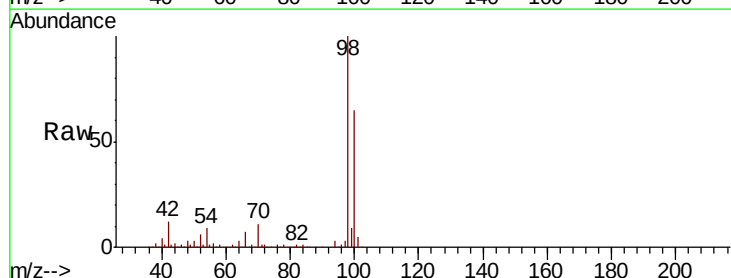
Acq: 2 Jul 2020 6:21

Tgt Ion: 98 Resp: 540907

Ion Ratio Lower Upper

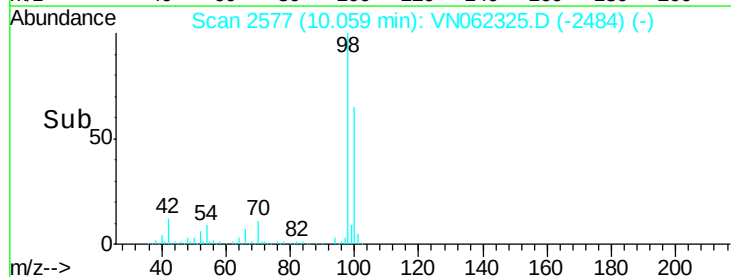
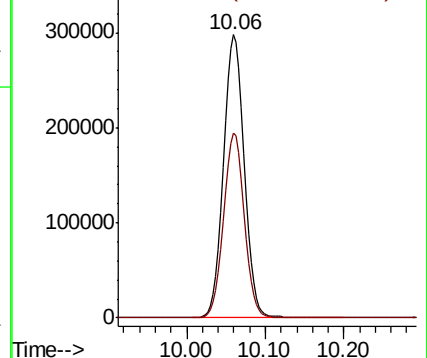
98 100

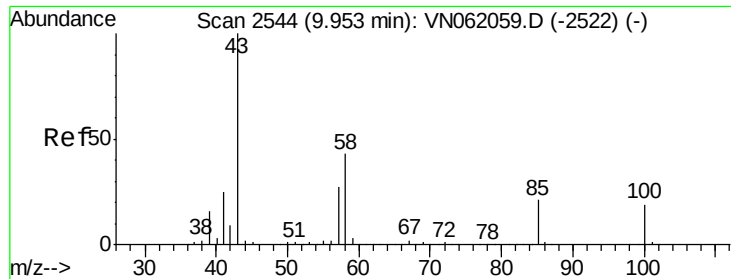
100 65.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

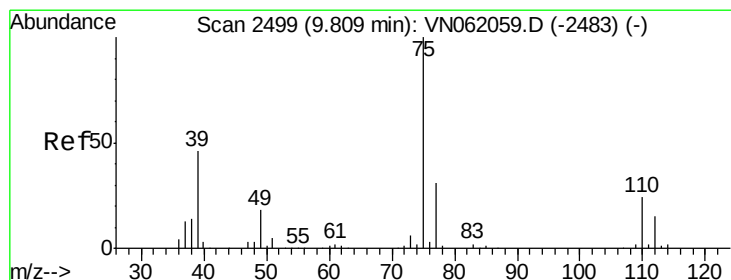
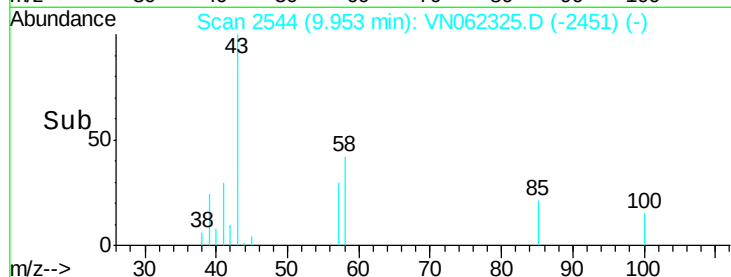
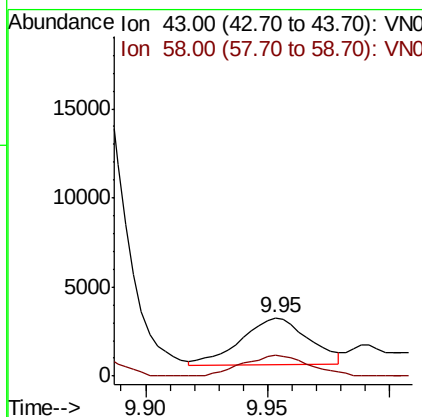
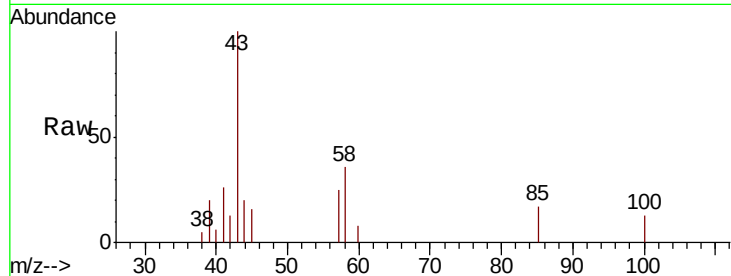




#51
 4-Methyl-2-Pentanone
 Concen: 1.519 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

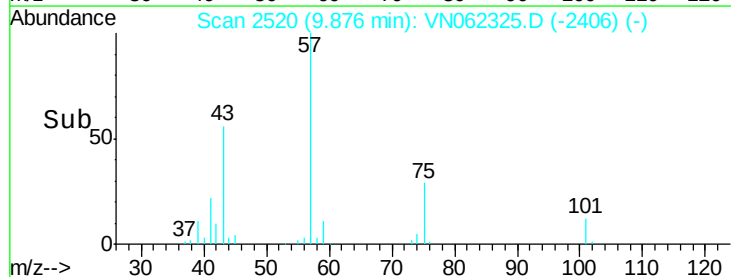
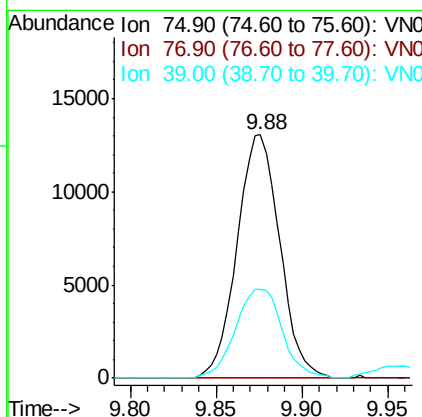
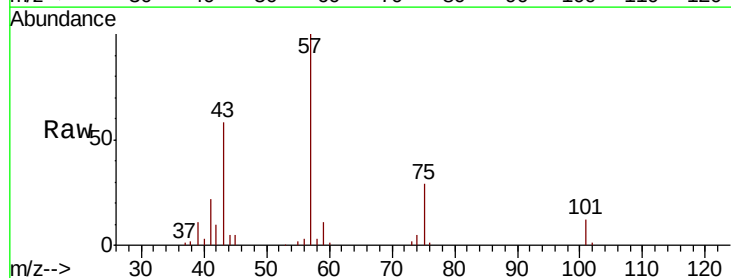
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

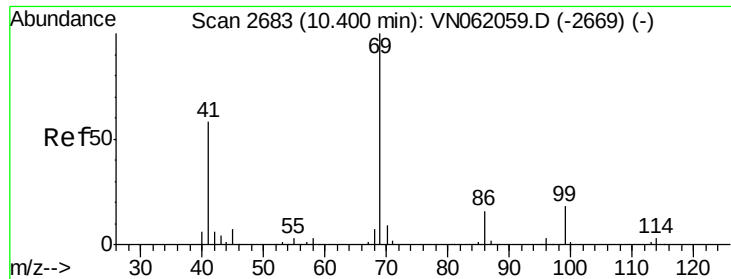
Tot Ion: 43 Resp: 4984
 Ion Ratio Lower Upper
 43 100
 58 43.7 34.2 51.2



#54
 cis-1,3-Dichloropropene
 Concen: 4.481 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Tgt Ion: 75 Resp: 22478
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 36.5 36.9 55.3#





#56

Ethyl methacrylate

Concen: 0.401 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampled :

BFB

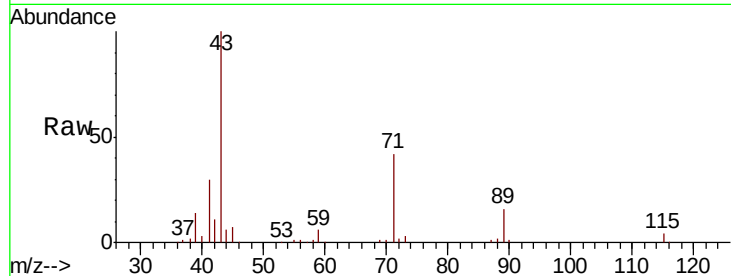
Tot Ion: 69 Resp: 1626

Ion Ratio Lower Upper

69 100

41 2965.1 46.6 70.0#

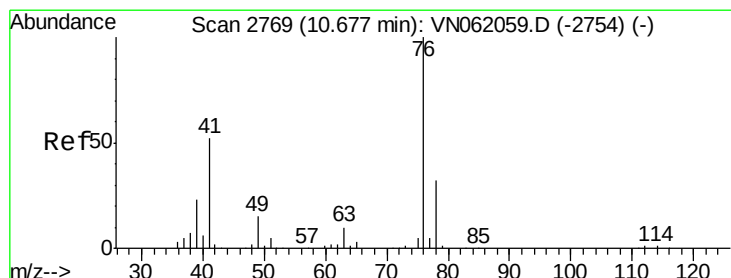
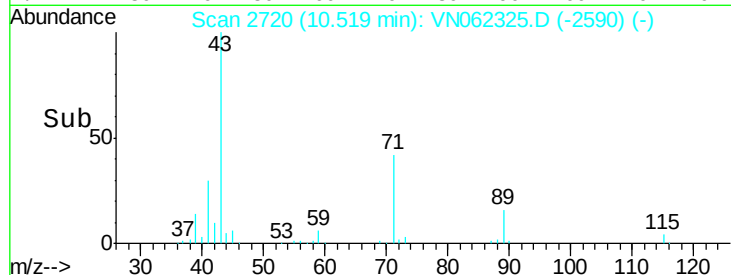
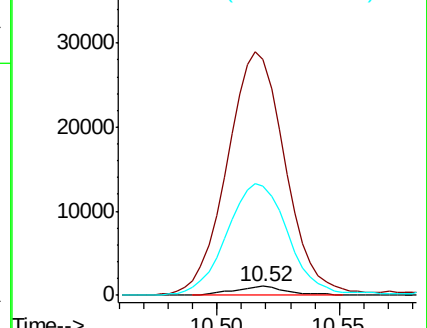
39 1448.2 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062325.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN062325.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN062325.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 0.853 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.06 min

Lab File: VN062325.D

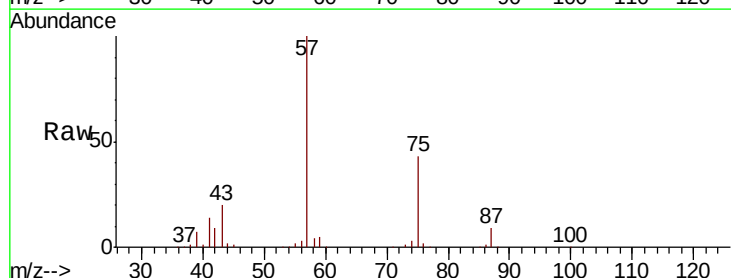
Acq: 2 Jul 2020 6:21

Tgt Ion: 76 Resp: 4467

Ion Ratio Lower Upper

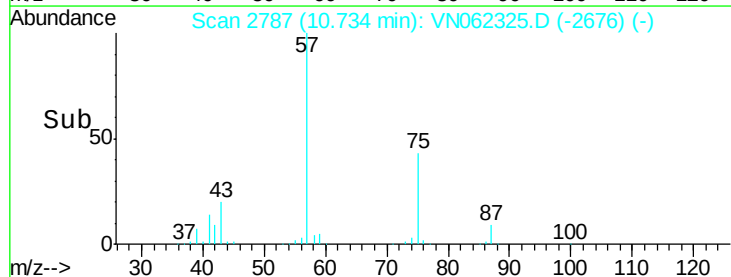
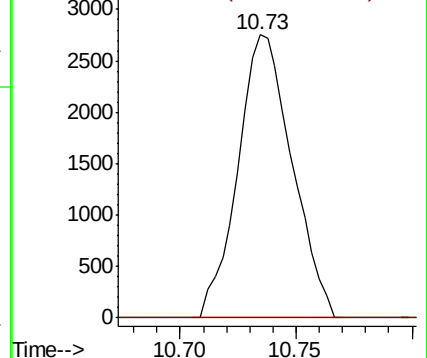
76 100

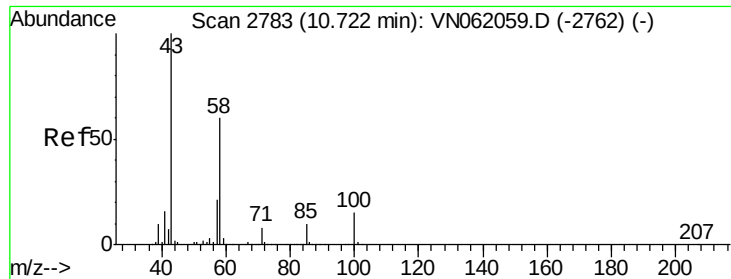
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062325.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062325.D (-2676) (-)





#59

2-Hexanone

Concen: 25.807 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampled :

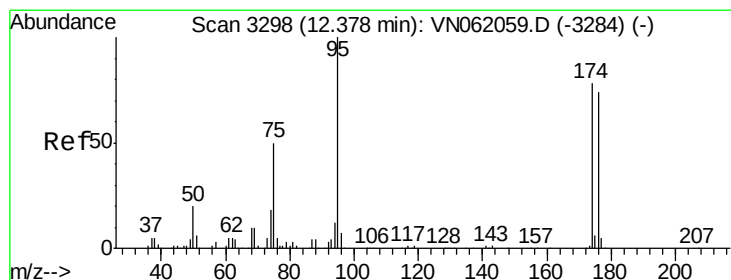
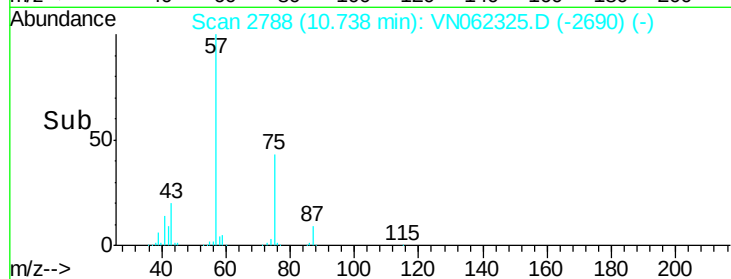
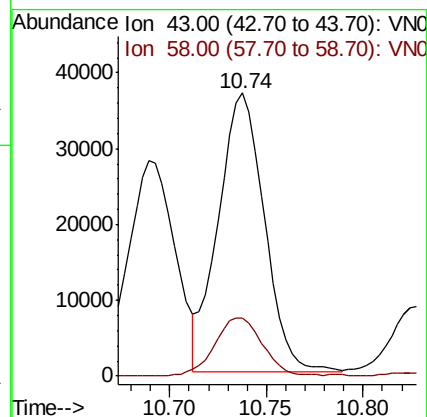
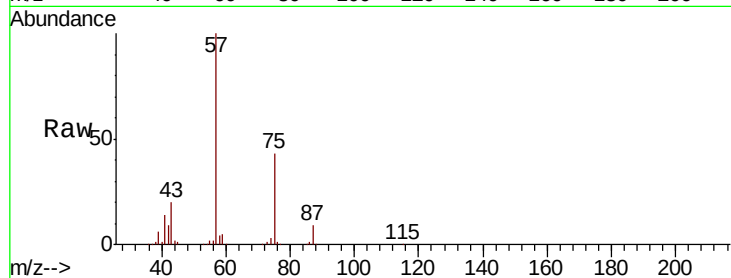
BFB

Tot Ion: 43 Resp: 61144

Ion Ratio Lower Upper

43 100

58 21.8 29.5 88.5#



#62

4-Bromofluorobenzene

Concen: 49.228 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

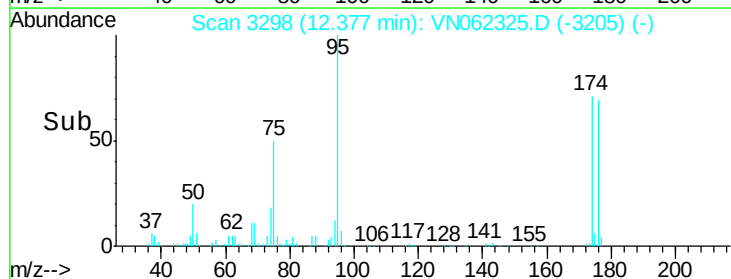
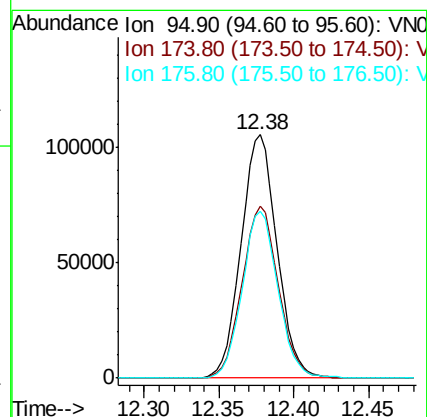
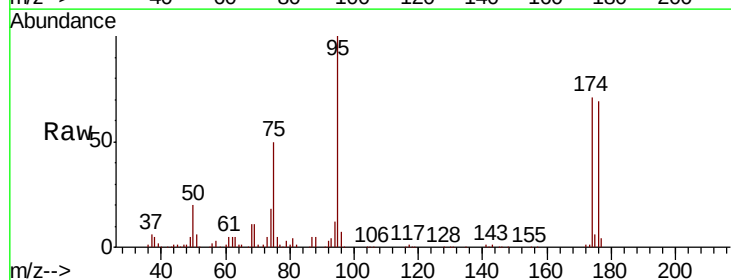
Tgt Ion: 95 Resp: 176538

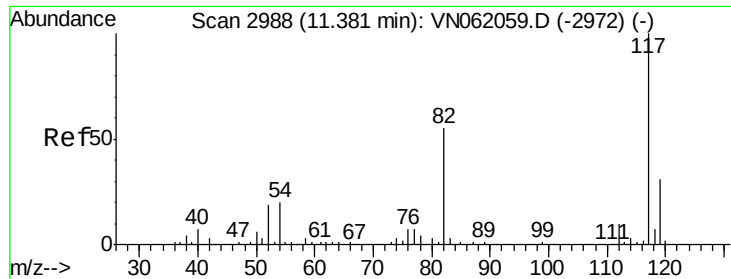
Ion Ratio Lower Upper

95 100

174 71.8 0.0 154.8

176 68.2 0.0 147.4

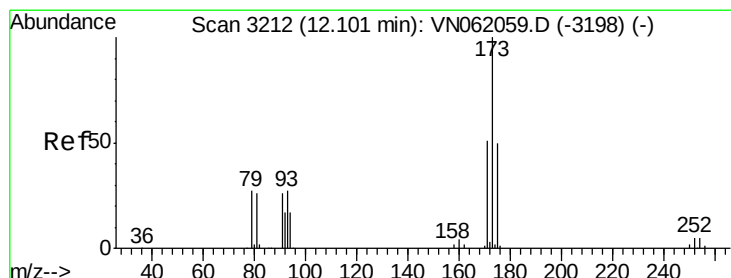
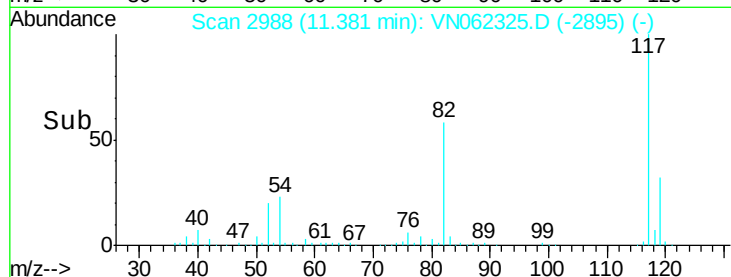
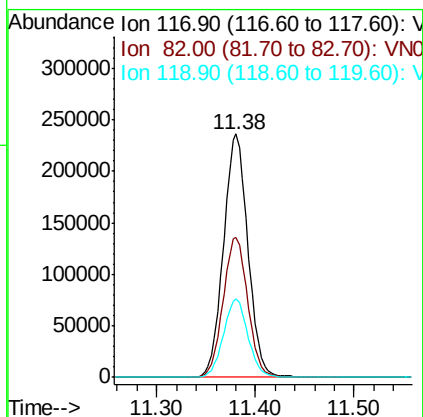
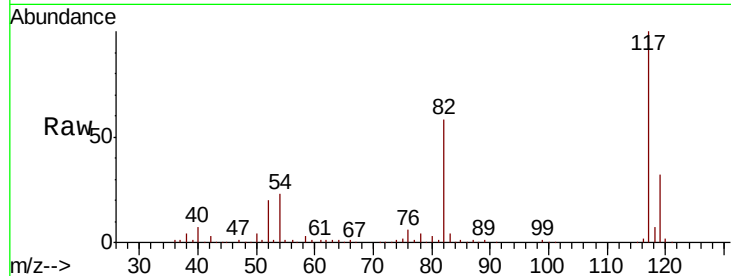




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

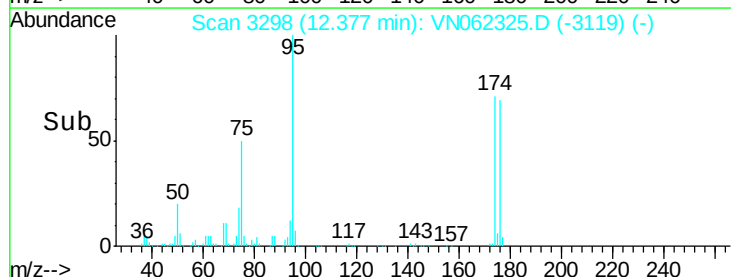
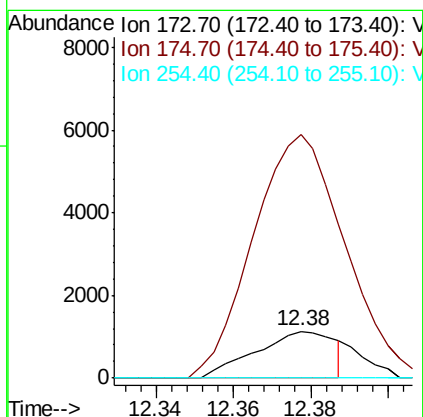
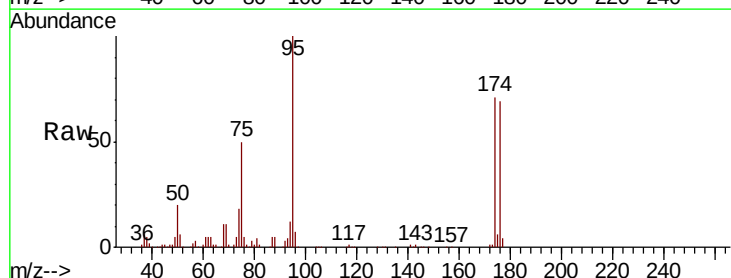
Instrument :
MSVOA_N
ClientSampleId :
BFB

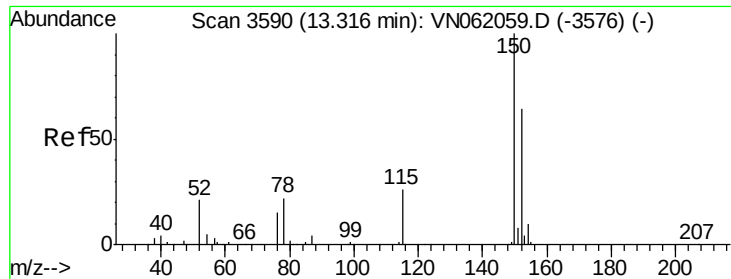
Tot Ion:117 Resp: 411195
Ion Ratio Lower Upper
117 100
82 57.7 43.8 65.8
119 32.2 25.2 37.8



#71
Bromoform
Concen: 0.725 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062325.D
Acq: 2 Jul 2020 6:21

Tgt Ion:173 Resp: 1610
Ion Ratio Lower Upper
173 100
175 509.6 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Instrument :

MSVOA_N

ClientSampleId :

BFB

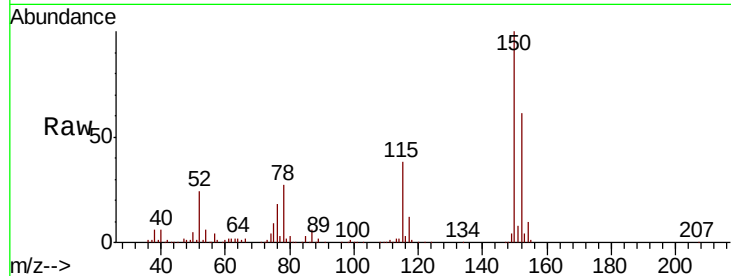
Tot Ion:152 Resp: 144916

Ion Ratio Lower Upper

152 100

115 62.6 29.5 88.5

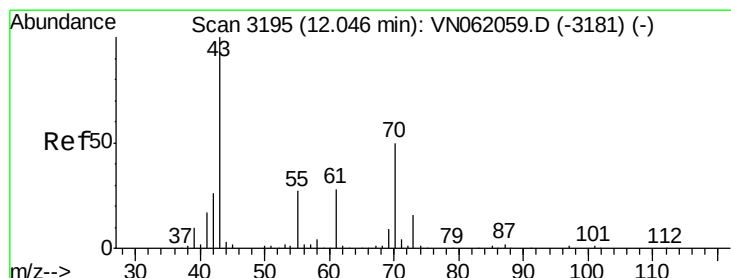
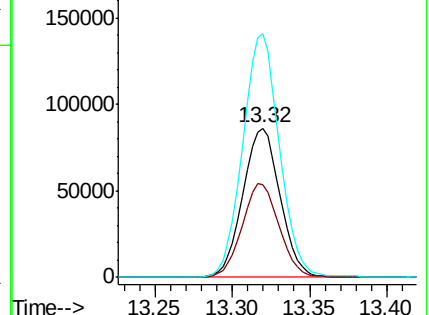
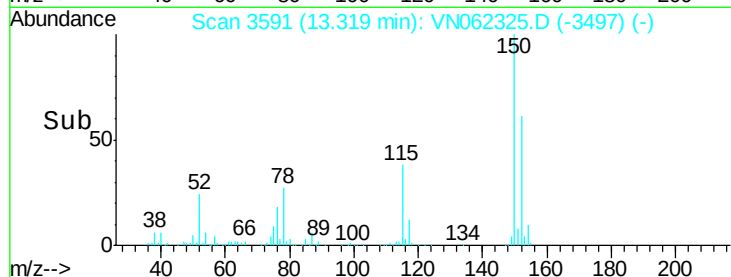
150 161.3 0.0 351.4



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: 3.895 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062325.D

Acq: 2 Jul 2020 6:21

Tgt Ion: 43 Resp: 2440

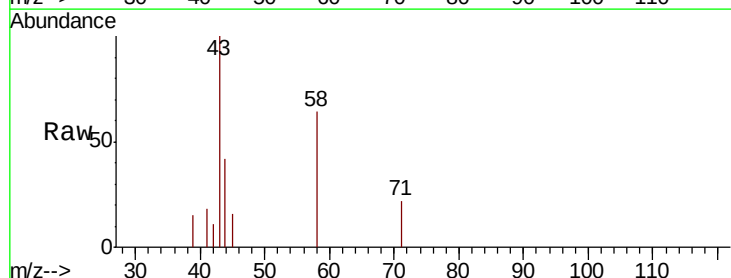
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 3.8 21.7 32.5#

61 0.0 21.3 31.9#

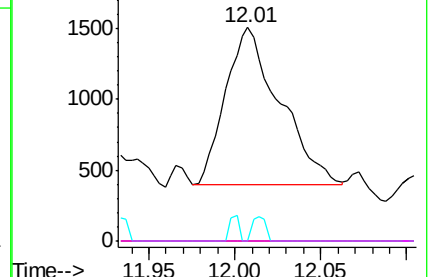
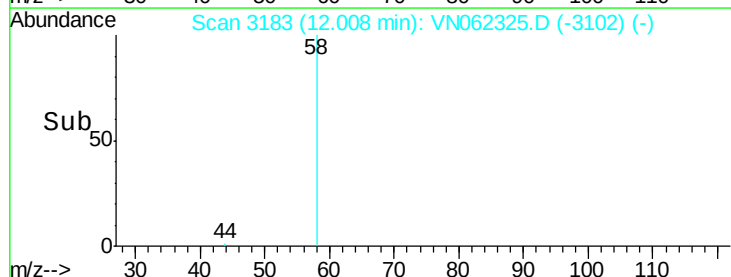


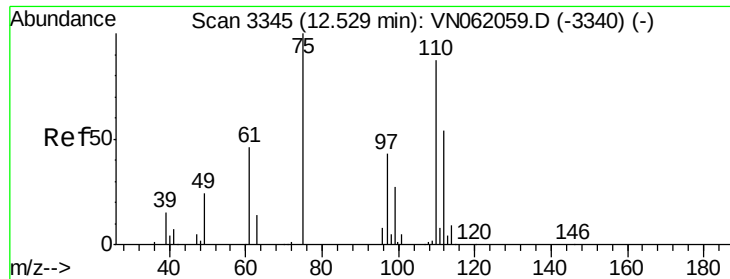
Abundance Ion 43.00 (42.70 to 43.70): V

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

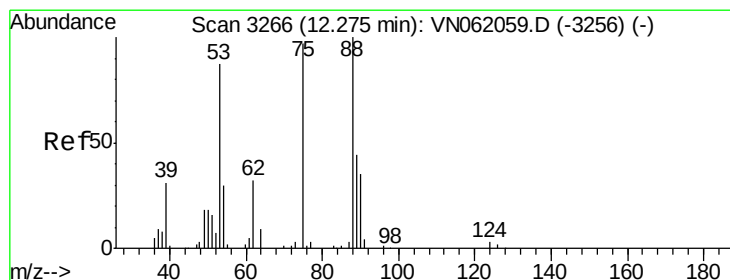
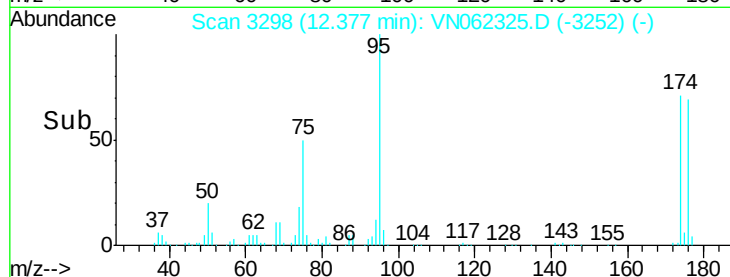
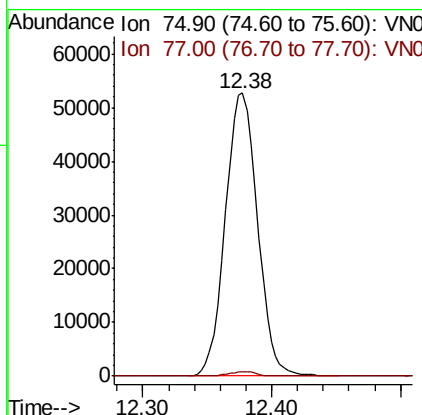
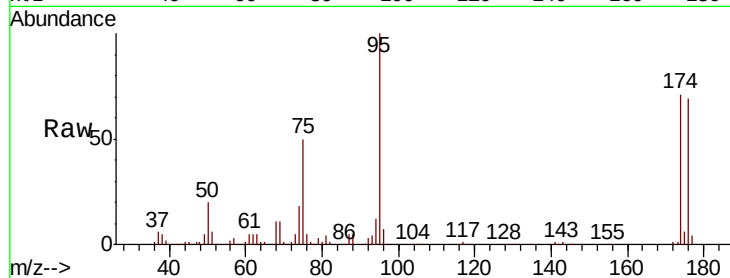




#76
 1,2,3-Trichloropropane
 Concen: 26.827 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Tot Ion: 75 Resp: 91517
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.343 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062325.D
 Acq: 2 Jul 2020 6:21

Tgt Ion: 75 Resp: 91517
 Ion Ratio Lower Upper
 75 100
 53 0.1 72.0 108.0#
 89 0.0 36.9 55.3#

