

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062420\
 Data File : VN062073.D
 Acq On : 24 Jun 2020 19:25
 Operator : JC/MD
 Sample : L3033-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF017MW005-200616

Quant Time: Jun 25 04:31:14 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	205146	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	389766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	378293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136234	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	148480	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
35) Dibromofluoromethane	7.55	113	125280	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.06	98	488409	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.38	95	156494	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	517	0.223	ug/l	76
3) Chloromethane	2.03	50	814	Below Cal		96
4) Vinyl Chloride	2.16	62	6111	1.673	ug/l	97
8) Diethyl Ether	3.38	74	5469	3.481	ug/l	97
11) Tert butyl alcohol	4.73	59	400	0.968	ug/l #	72
16) Acetone	3.79	43	2886	Below Cal		96
21) trans-1,2-Dichloroethene	4.99	96	618	0.230	ug/l #	69
27) cis-1,2-Dichloroethene	6.78	96	47332	15.675	ug/l	89
29) Tetrahydrofuran	7.18	42	608	0.660	ug/l #	46
31) Cyclohexane	7.63	56	4811	1.210	ug/l #	21
36) 1,1-Dichloropropene	7.63	75	17328	4.423	ug/l #	49
38) Carbon Tetrachloride	7.62	117	21676	5.869	ug/l #	15
44) Trichloroethene	8.80	130	798	0.265	ug/l	86
45) 1,2-Dichloropropane	9.08	63	2433	0.826	ug/l #	87
48) Methyl methacrylate	9.09	41	1493	0.630	ug/l #	38
51) 4-Methyl-2-Pentanone	10.06	43	1988	0.643	ug/l #	1
65) Chlorobenzene	11.41	112	5146	0.619	ug/l	91
71) Bromoform	12.38	173	1209	0.592	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	78994	24.631	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	78994	71.933	ug/l #	13
87) 1,3-Dichlorobenzene	13.34	146	6392	1.390	ug/l #	74
88) 1,4-Dichlorobenzene	13.34	146	6392	1.349	ug/l #	73
91) 1,2-Dichlorobenzene	13.63	146	4309	0.967	ug/l	97
95) Naphthalene	15.12	128	148	4.016	ug/l #	69

(#) = 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

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MSVOA_N

ClientSampleId :

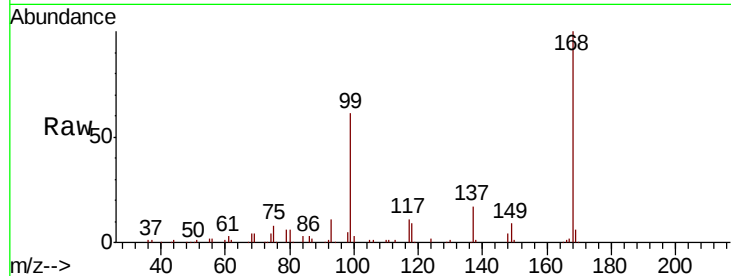
LF017MW005-200616

Tot Ion:168 Resp: 205146

Ion Ratio Lower Upper

168 100

99 61.0 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

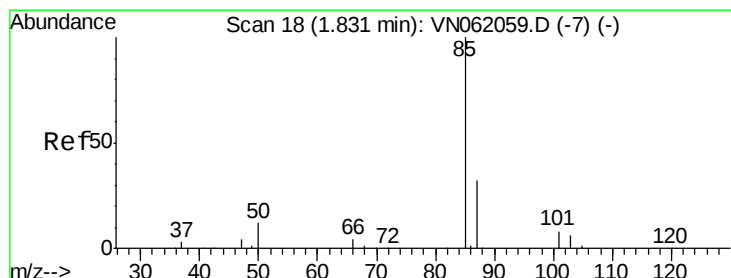
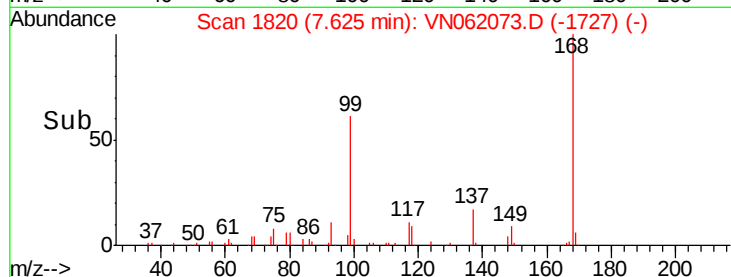
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#2

Dichlorodifluoromethane

Concen: 0.223 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.02 min

Lab File: VN062073.D

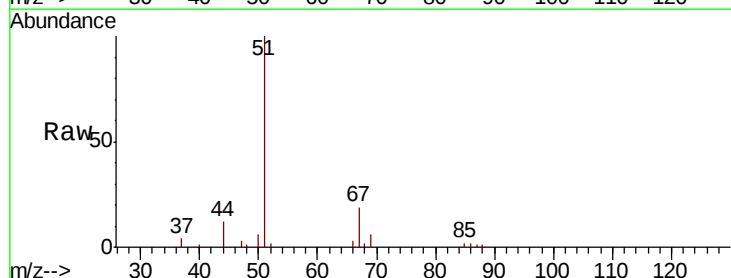
Acq: 24 Jun 2020 19:25

Tgt Ion: 85 Resp: 517

Ion Ratio Lower Upper

85 100

87 45.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

500

400

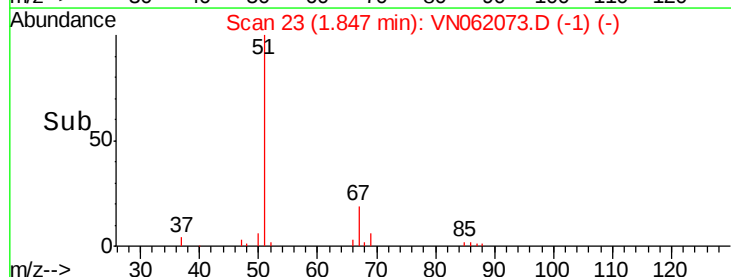
300

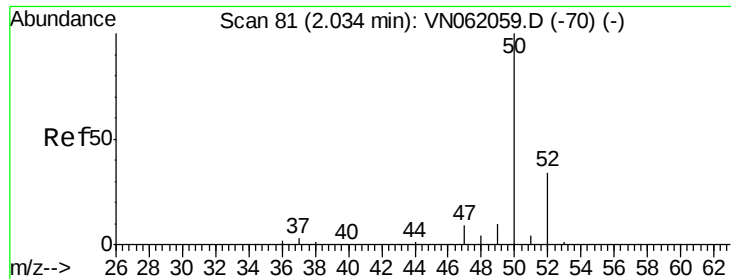
200

100

0

Time--> 1.82 1.84 1.86 1.88





#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

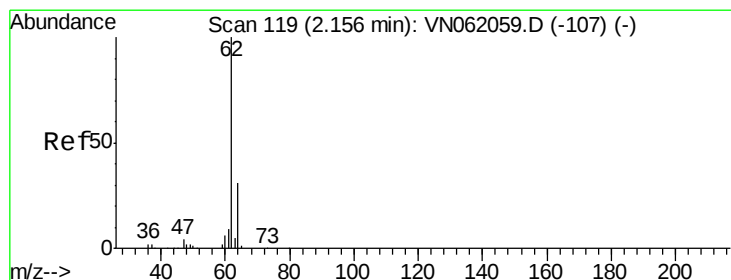
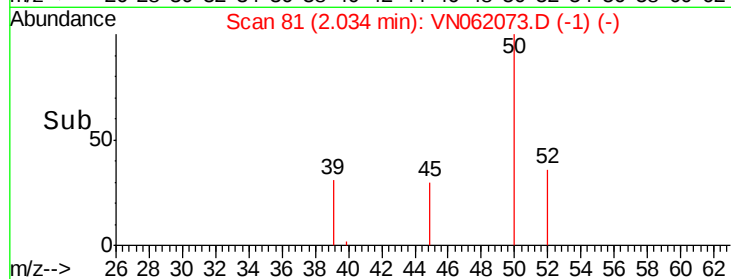
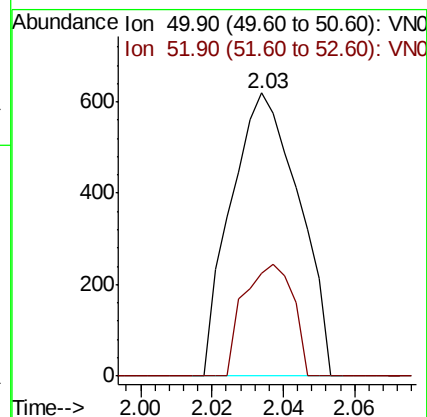
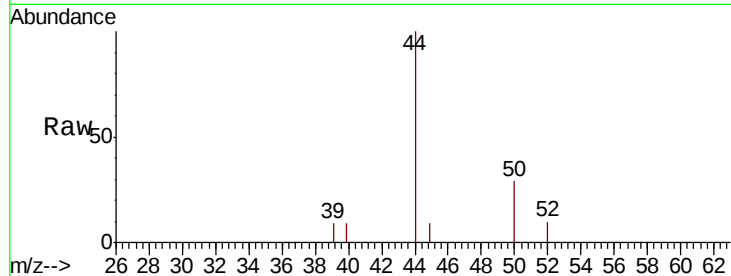
LF017MW005-200616

Tot Ion: 50 Resp: 814

Ion Ratio Lower Upper

50 100

52 36.2 27.0 40.6



#4

Vinyl Chloride

Concen: 1.673 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062073.D

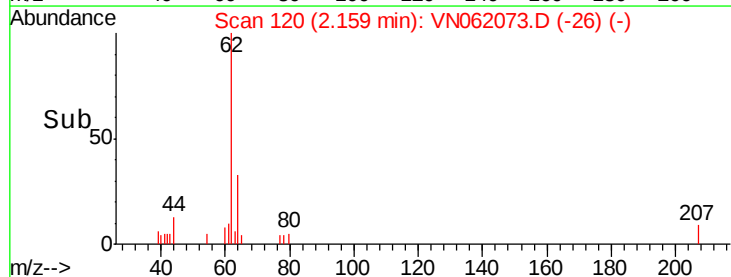
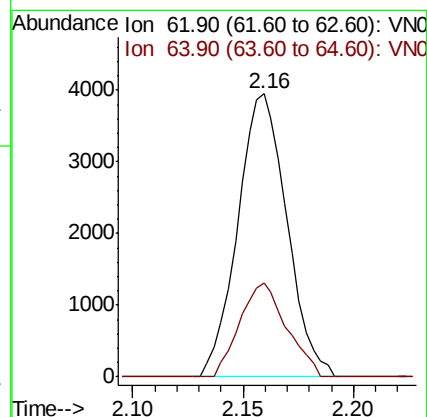
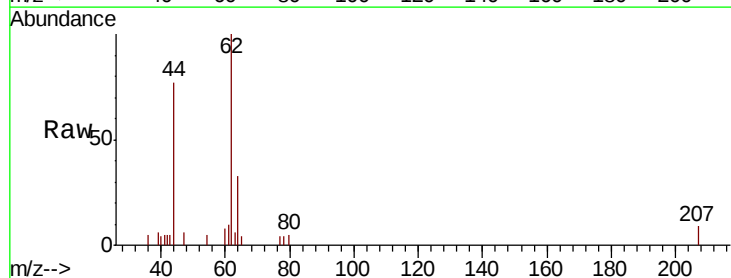
Acq: 24 Jun 2020 19:25

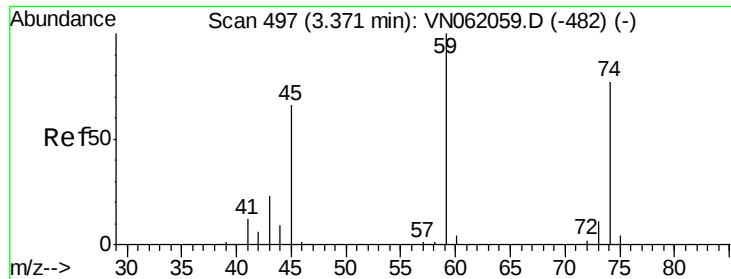
Tgt Ion: 62 Resp: 6111

Ion Ratio Lower Upper

62 100

64 33.0 25.1 37.7





#8

Diethyl Ether

Concen: 3.481 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

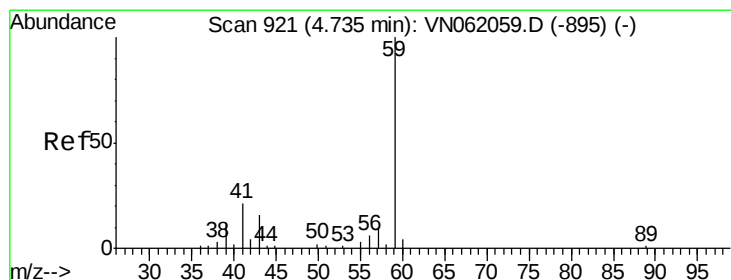
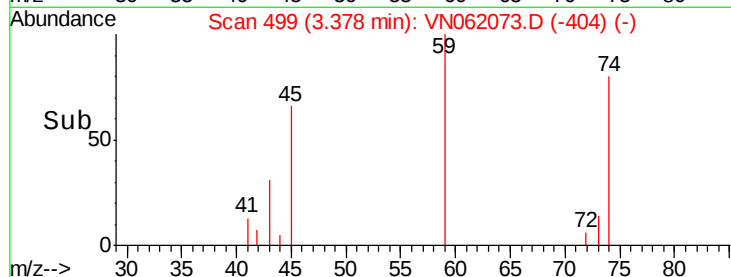
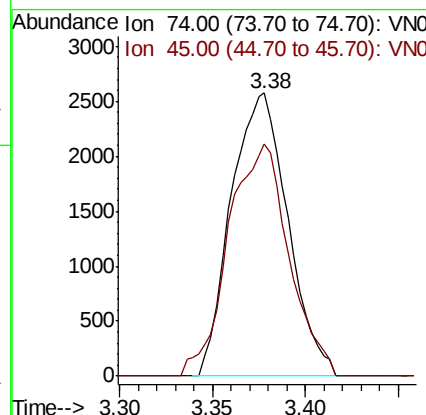
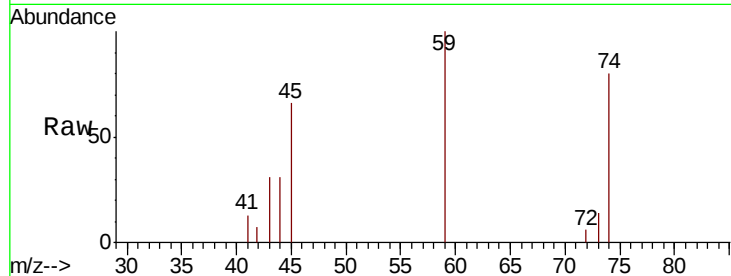
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Tot Ion: 74 Resp: 5469

Ion Ratio Lower Upper

74 100

45 87.7 42.5 127.5



#11

Tert butyl alcohol

Concen: 0.968 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062073.D

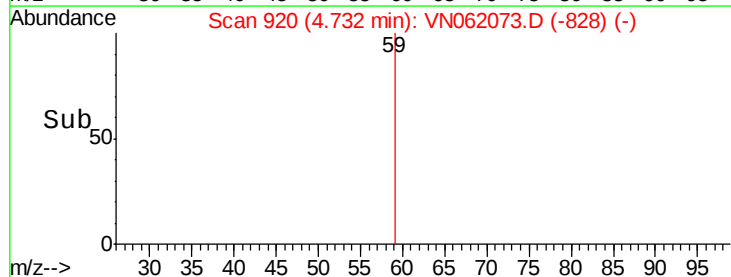
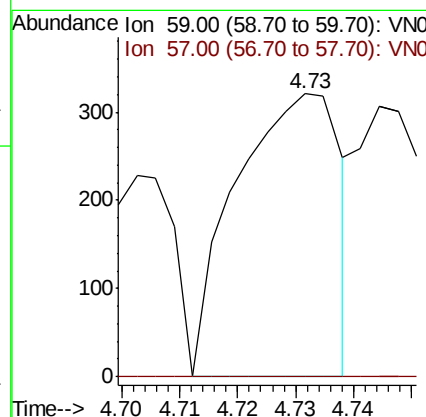
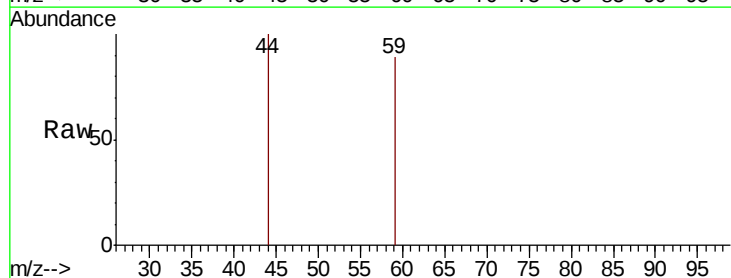
Acq: 24 Jun 2020 19:25

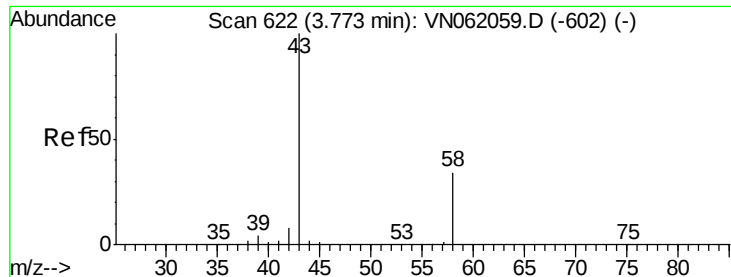
Tgt Ion: 59 Resp: 400

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

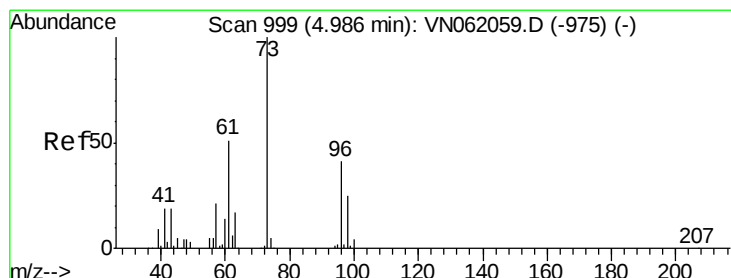
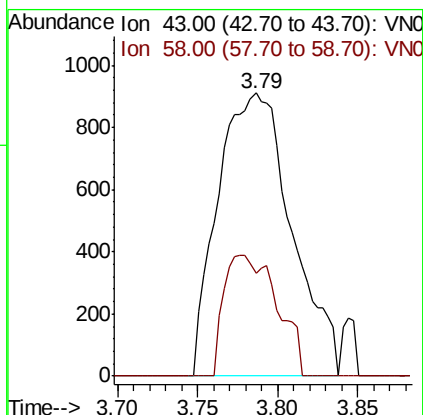
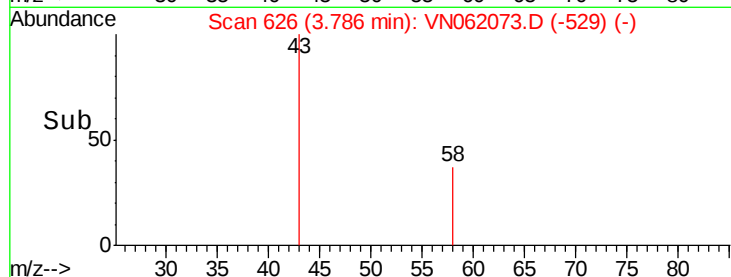
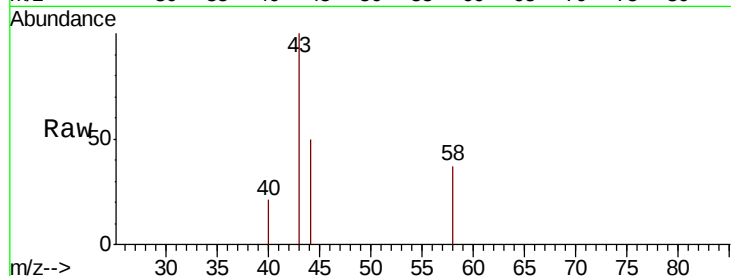
LF017MW005-200616

Tot Ion: 43 Resp: 2886

Ion Ratio Lower Upper

43 100

58 36.6 27.5 41.3



#21

trans-1,2-Dichloroethene

Concen: 0.230 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

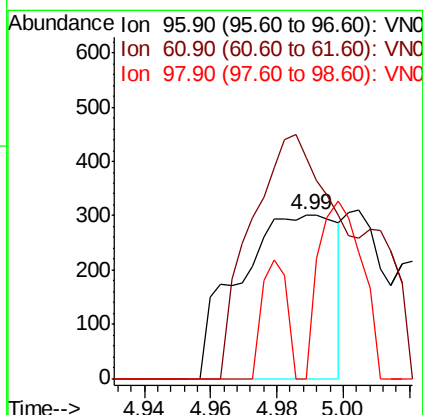
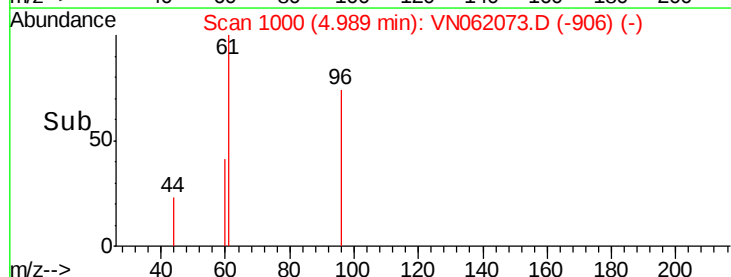
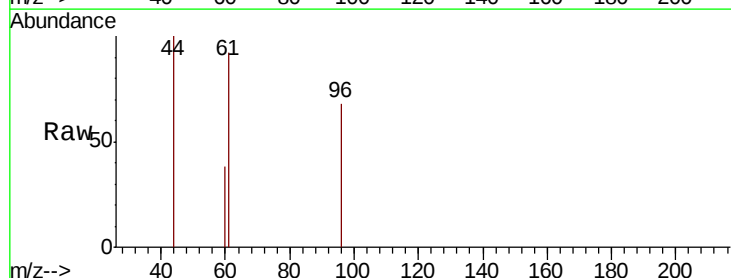
Tgt Ion: 96 Resp: 618

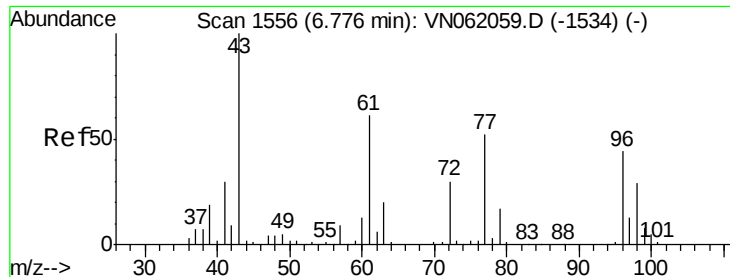
Ion Ratio Lower Upper

96 100

61 135.1 101.4 152.2

98 0.0 49.3 73.9#

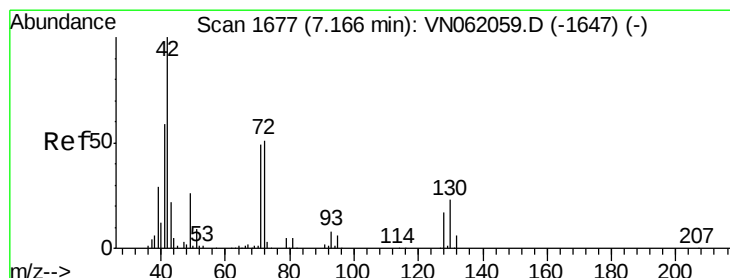
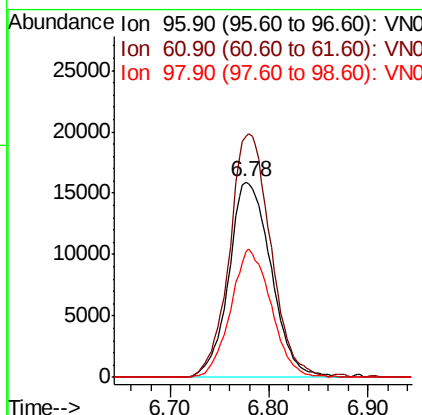
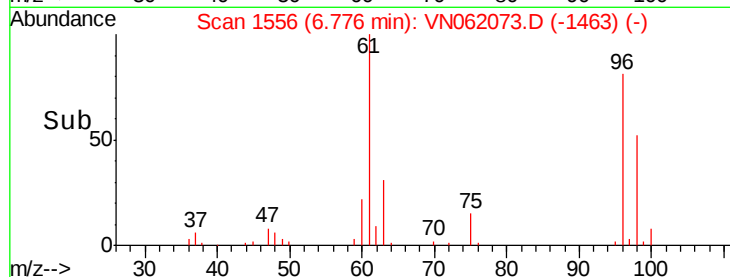
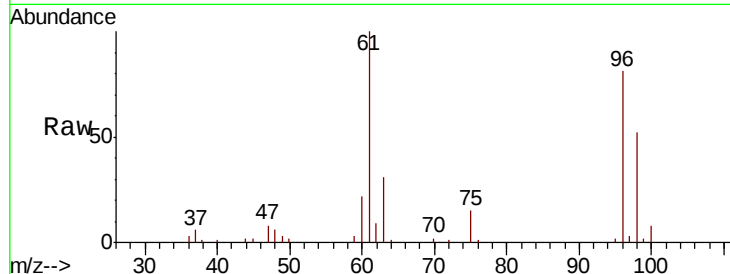




#27
 cis-1,2-Dichloroethene
 Concen: 15.675 ug/l
 RT: 6.78 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

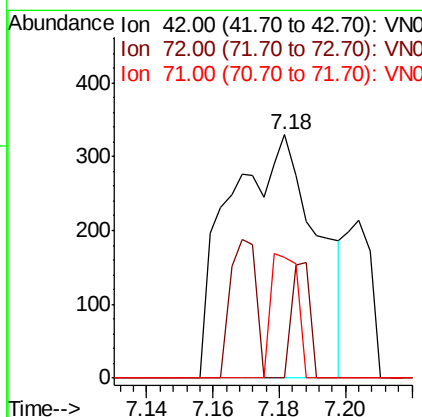
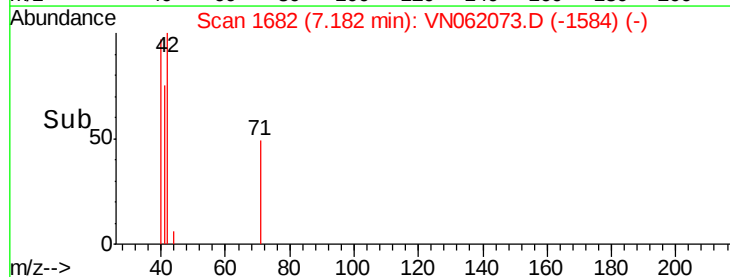
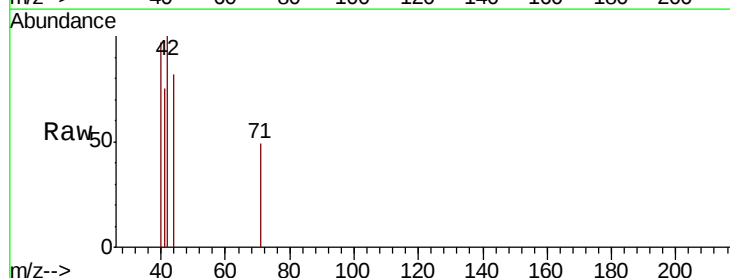
Instrument :
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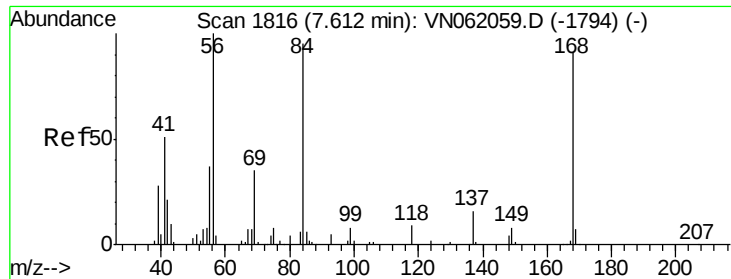
Tot Ion: 96 Resp: 47332
 Ion Ratio Lower Upper
 96 100
 61 121.3 0.0 280.4
 98 62.7 0.0 129.4



#29
 Tetrahydrofuran
 Concen: 0.660 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.02 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Tgt Ion: 42 Resp: 608
 Ion Ratio Lower Upper
 42 100
 72 9.9 41.1 61.7#
 71 15.5 38.2 57.4#

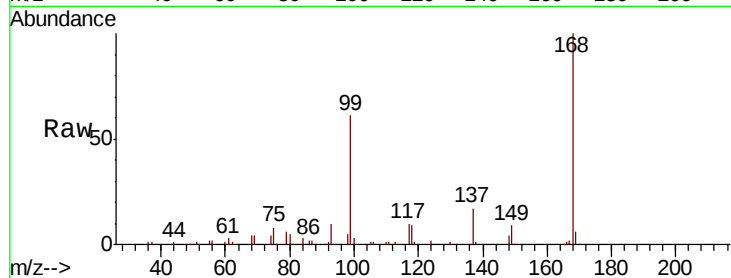




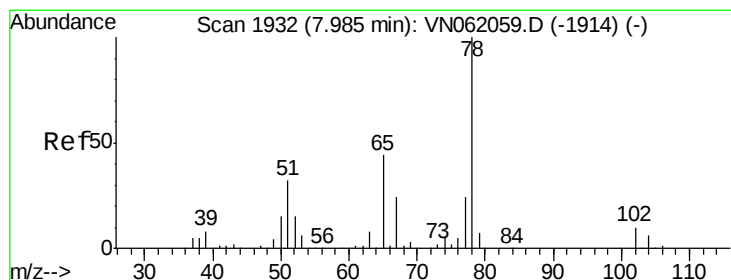
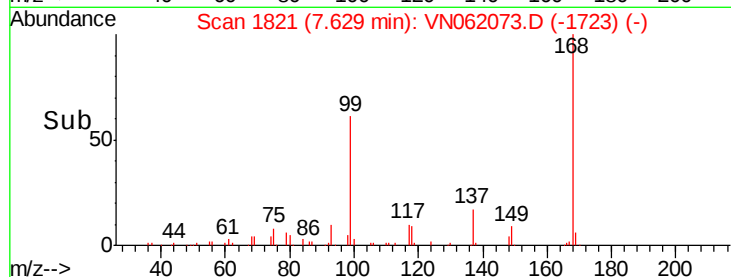
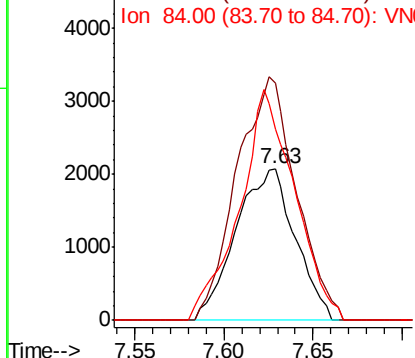
#31
Cyclohexane
Concen: 1.210 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :
LF017MW005-200616

Tot Ion: 56 Resp: 4811
Ion Ratio Lower Upper
56 100
69 156.0 28.0 42.0#
84 125.9 76.1 114.1#

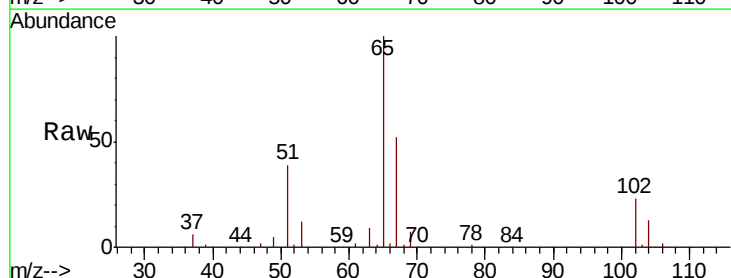


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

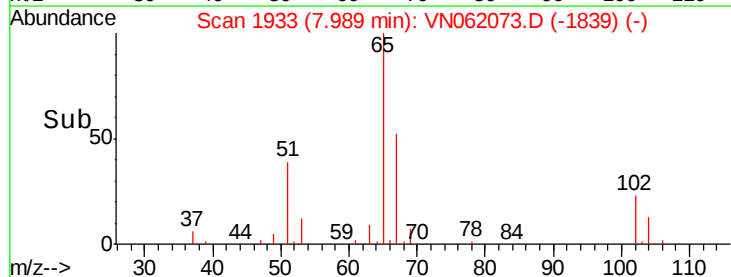
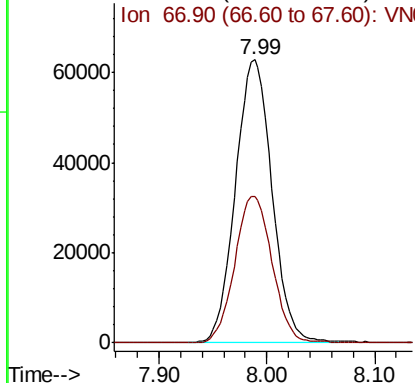


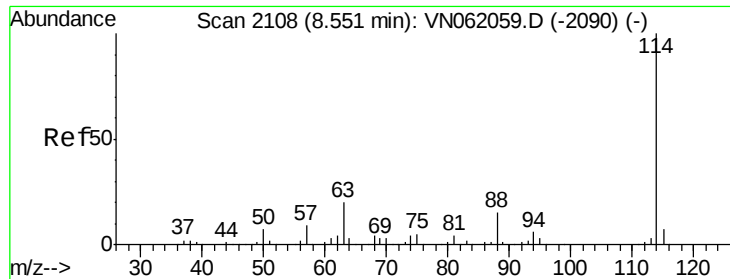
#33
1,2-Dichloroethane-d4
Concen: 51.575 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Tgt Ion: 65 Resp: 148480
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

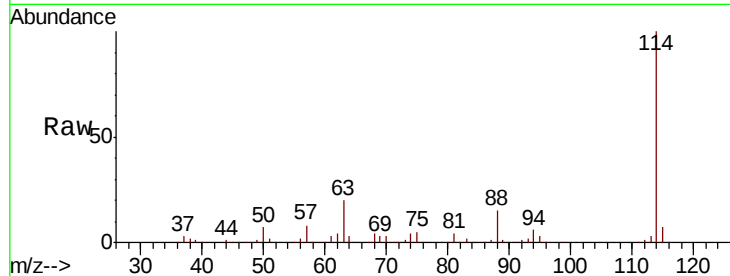




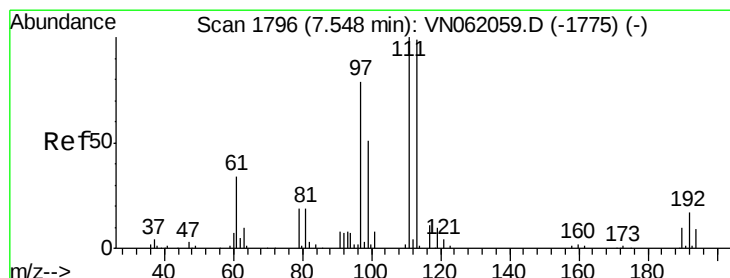
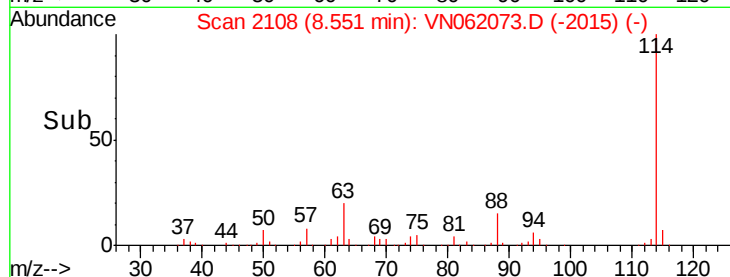
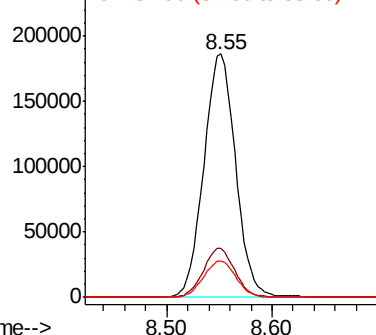
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :
LF017MW005-200616

Tot Ion:114 Resp: 389766
Ion Ratio Lower Upper
114 100
63 20.3 0.0 39.2
88 15.0 0.0 30.8

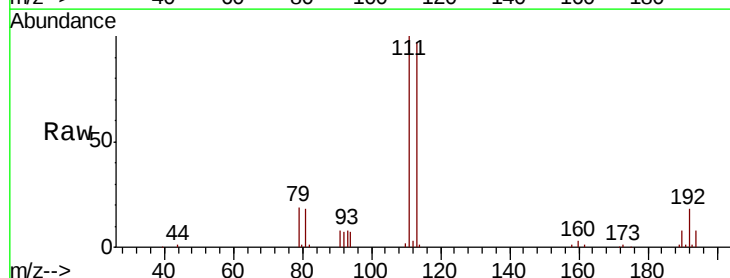


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

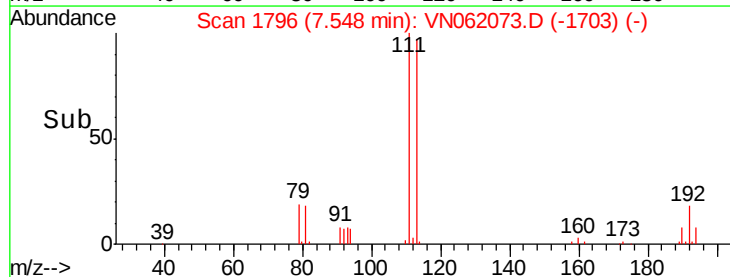
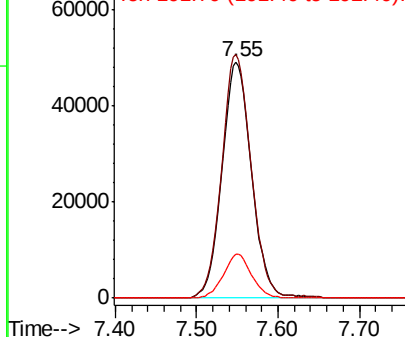


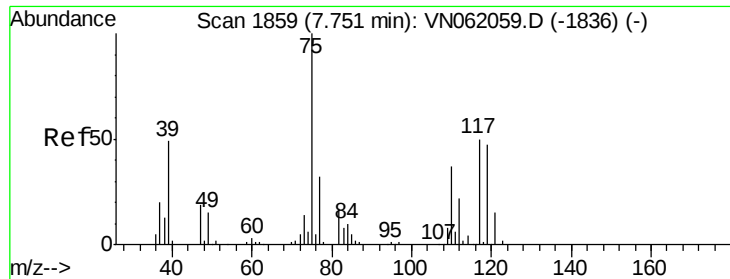
#35
Dibromofluoromethane
Concen: 50.101 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Tgt Ion:113 Resp: 125280
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.4
192 17.6 14.0 21.0



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

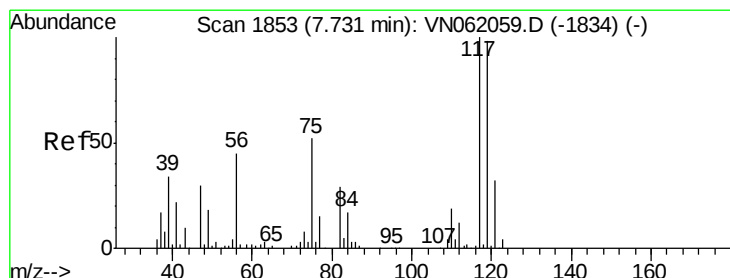
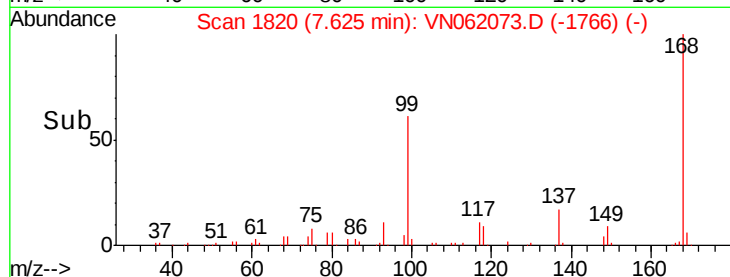
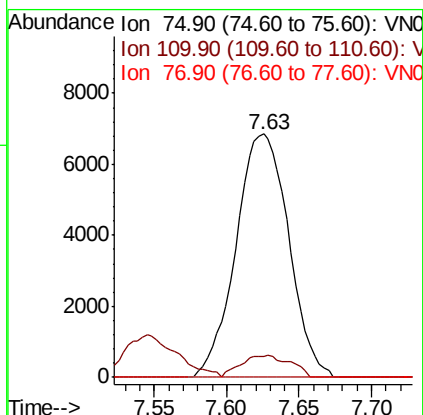
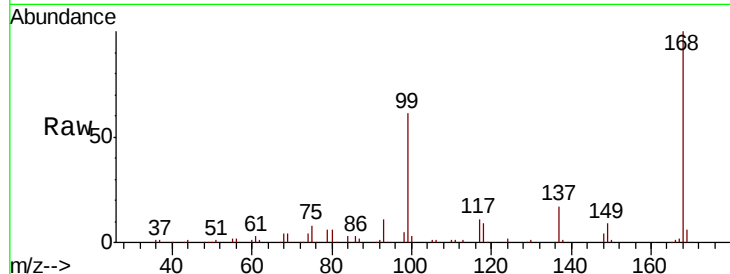




#36
 1,1-Dichloropropene
 Concen: 4.423 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

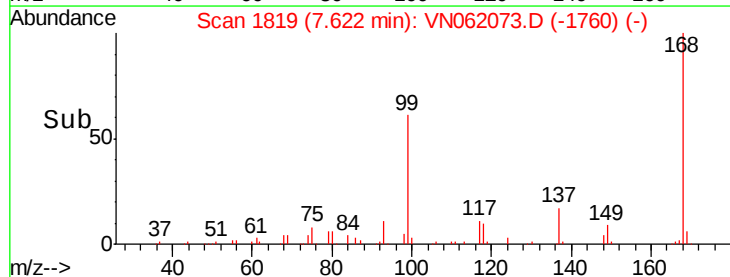
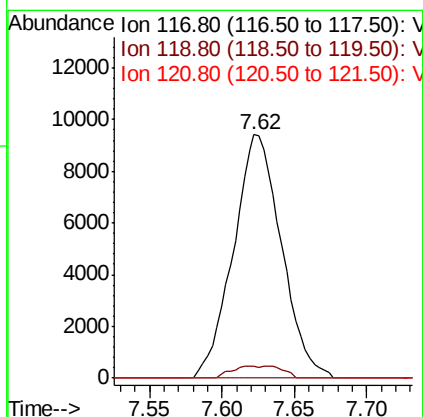
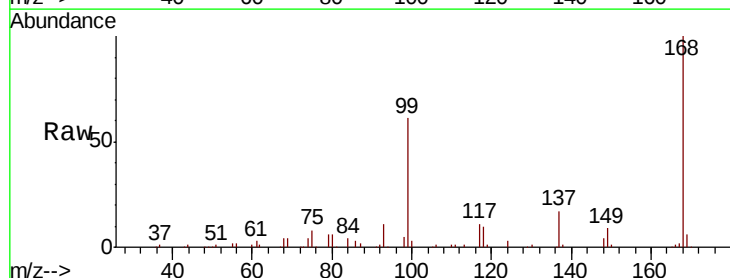
Instrument :
 MSVOA_N
 ClientSampleId :
 LF017MW005-200616

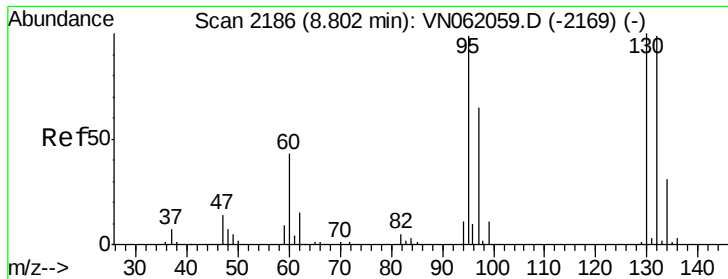
Tot Ion	75	Resp	17328
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.869 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Tgt Ion	117	Resp	21676
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.7	78.2	117.2#
121	0.0	25.8	38.6#





#44

Trichloroethene

Concen: 0.265 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

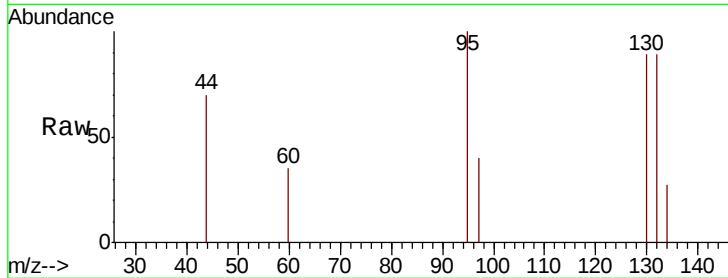
LF017MW005-200616

Tot Ion:130 Resp: 798

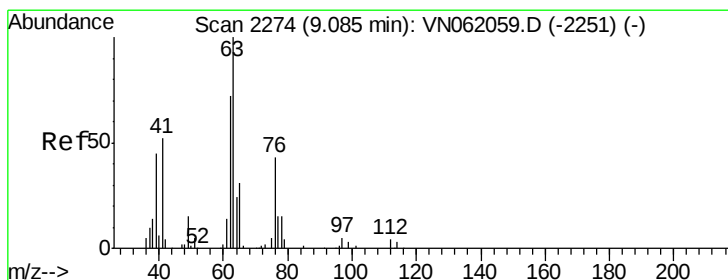
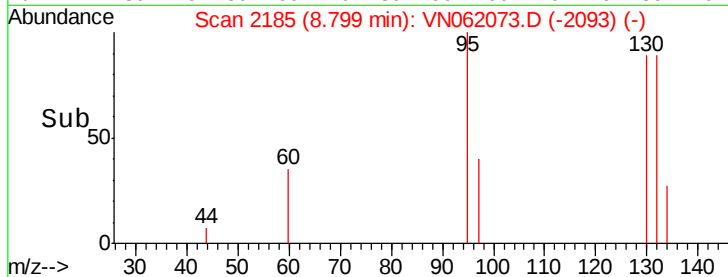
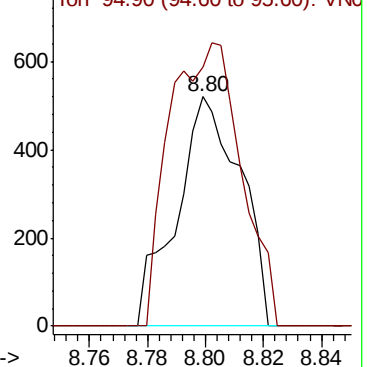
Ion Ratio Lower Upper

130 100

95 112.9 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN062059.D (-2169) (-)



#45

1,2-Dichloropropane

Concen: 0.826 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VN062073.D

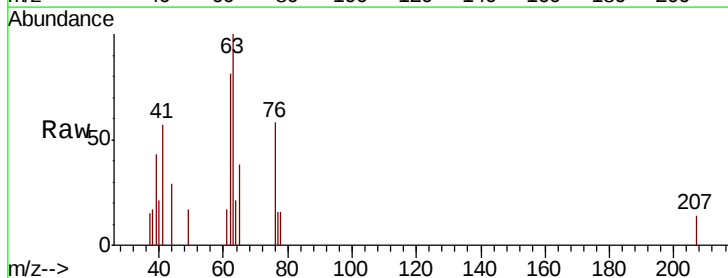
Acq: 24 Jun 2020 19:25

Tgt Ion: 63 Resp: 2433

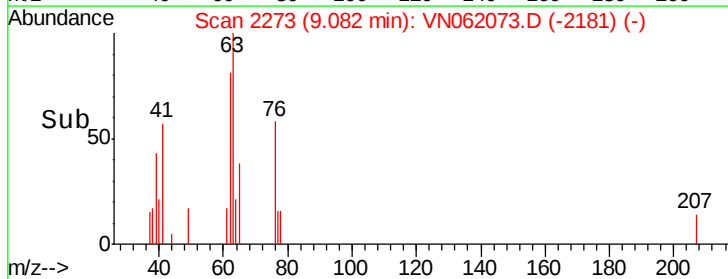
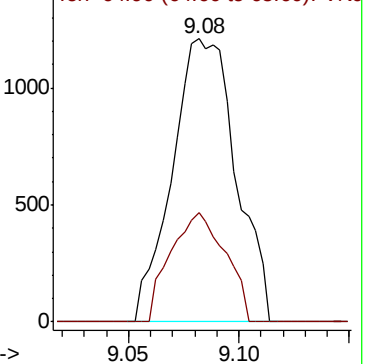
Ion Ratio Lower Upper

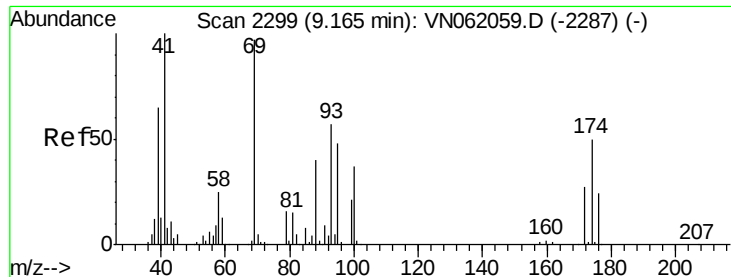
63 100

65 38.5 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062059.D (-2251) (-)

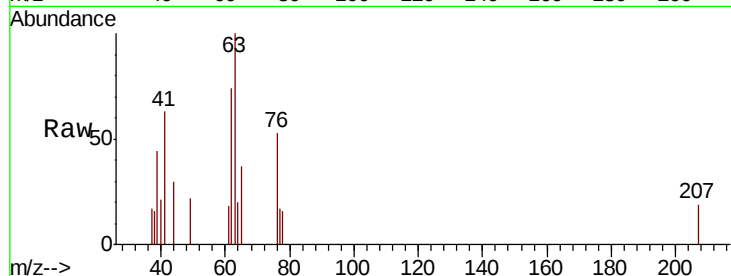




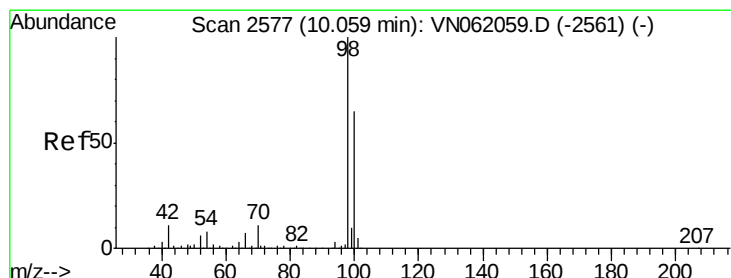
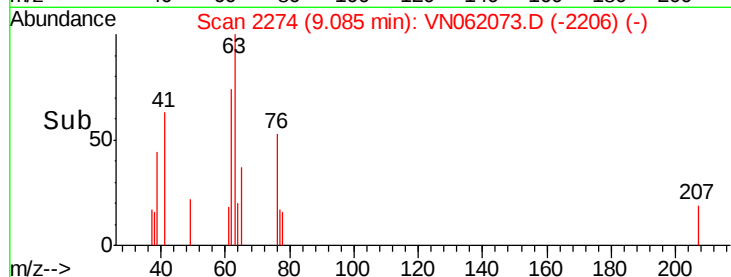
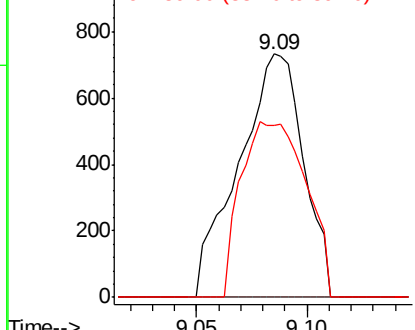
#48
Methvl methacrylate
Concen: 0.630 ug/l
RT: 9.09 min Scan# 2274
Delta R.T. -0.08 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :
LF017MW005-200616

Tot Ion: 41 Resp: 1493
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 72.5 54.5 81.7

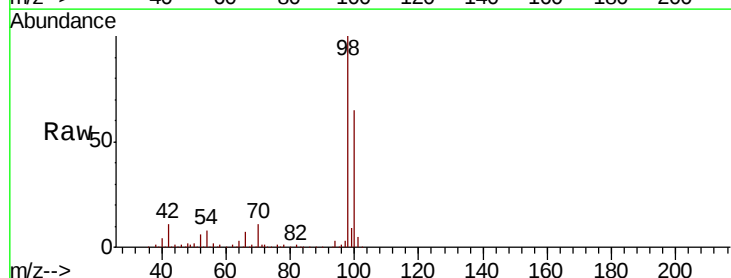


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

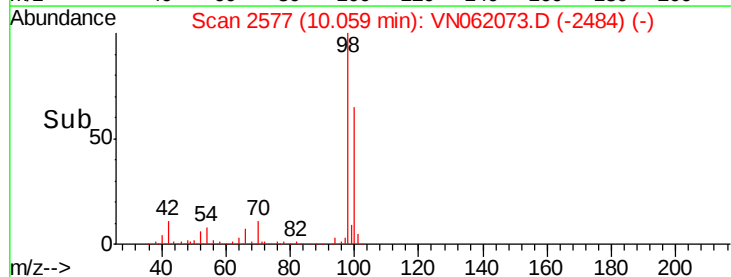
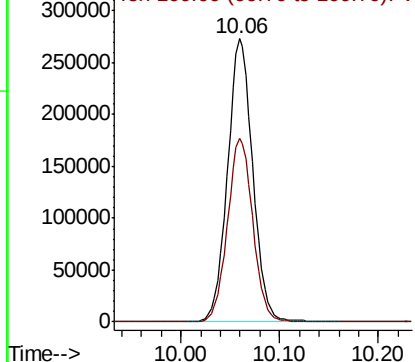


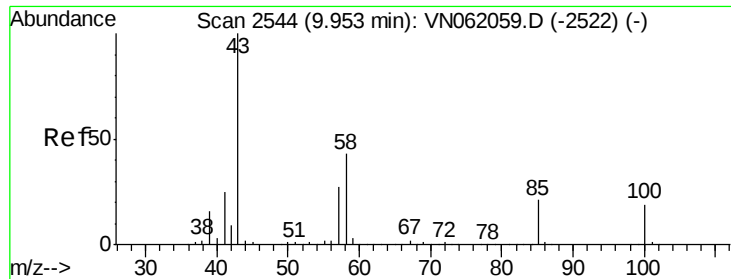
#50
Toluene-d8
Concen: 48.863 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Tgt Ion: 98 Resp: 488409
Ion Ratio Lower Upper
98 100
100 65.1 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: 0.643 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

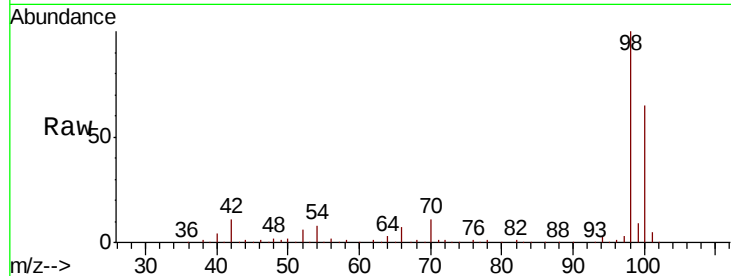
LF017MW005-200616

Tot Ion: 43 Resp: 1988

Ion Ratio Lower Upper

43 100

58 196.1 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)

10.06

2500

2000

1500

1000

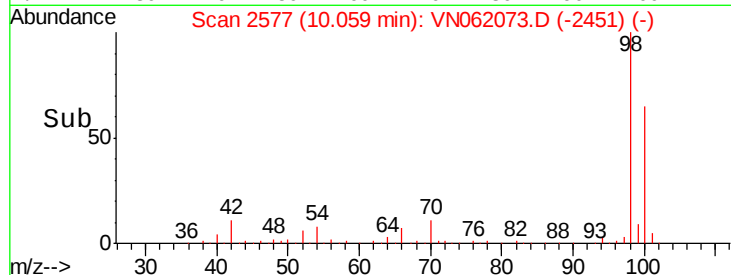
500

0

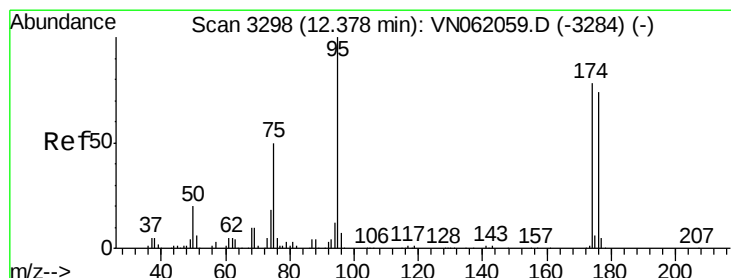
10.00

10.05

10.10



Time-->



#62

4-Bromofluorobenzene

Concen: 46.340 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062073.D

Acq: 24 Jun 2020 19:25

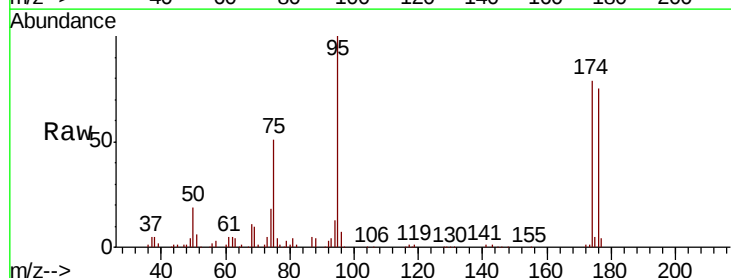
Tgt Ion: 95 Resp: 156494

Ion Ratio Lower Upper

95 100

174 76.7 0.0 154.8

176 74.3 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)

12.38

120000

100000

80000

60000

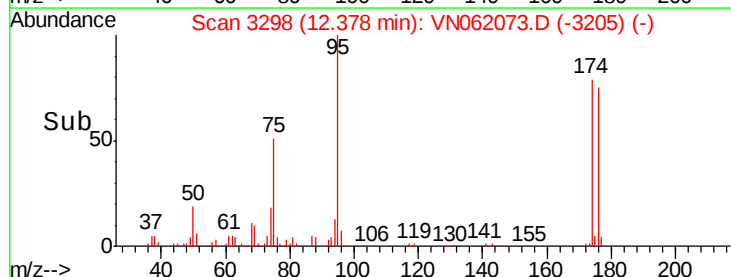
40000

20000

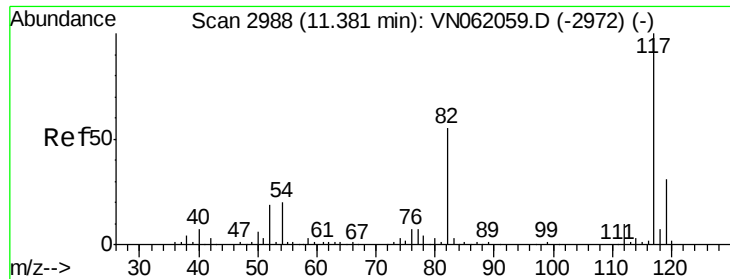
0

12.30

12.40



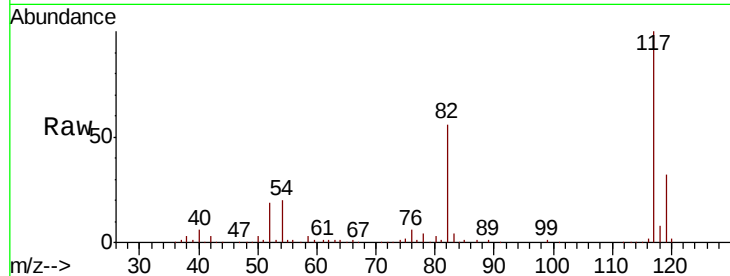
Time-->



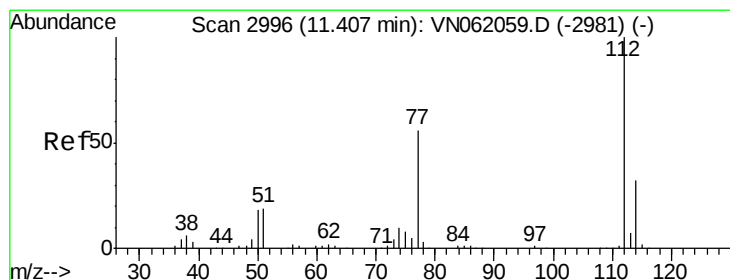
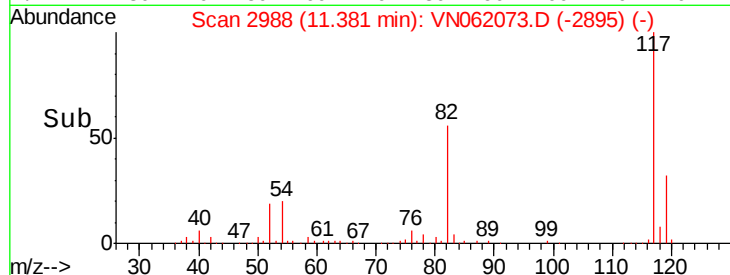
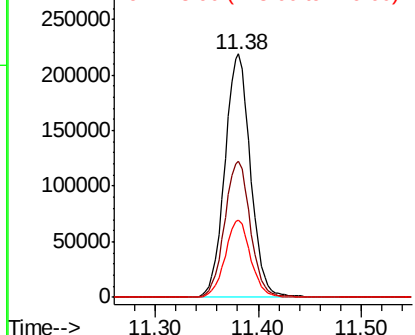
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :
LF017MW005-200616

Tot Ion:117 Resp: 378293
Ion Ratio Lower Upper
117 100
82 56.1 43.8 65.8
119 31.9 25.2 37.8

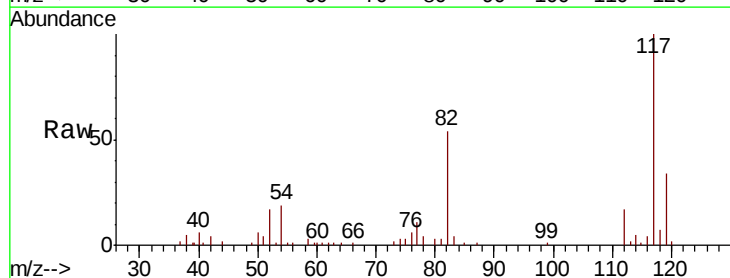


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

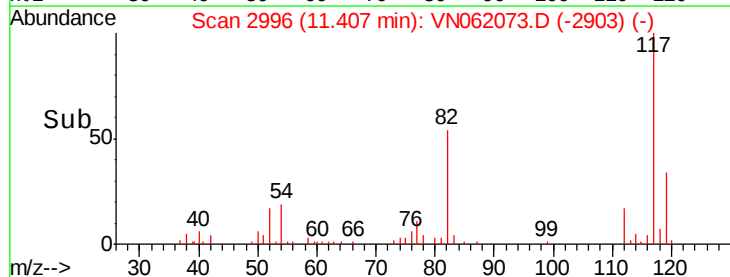
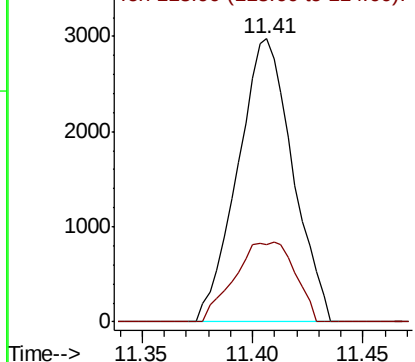


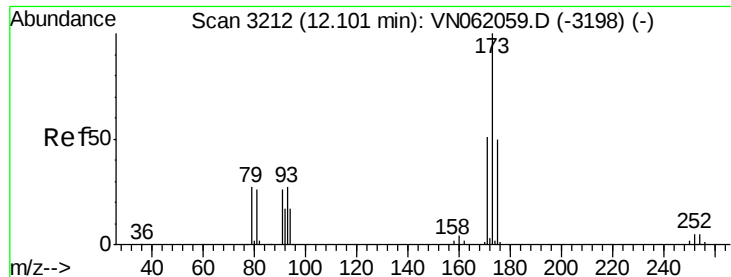
#65
Chlorobenzene
Concen: 0.619 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Tgt Ion:112 Resp: 5146
Ion Ratio Lower Upper
112 100
114 27.2 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

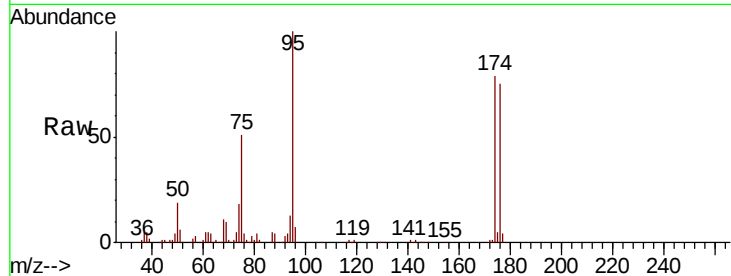




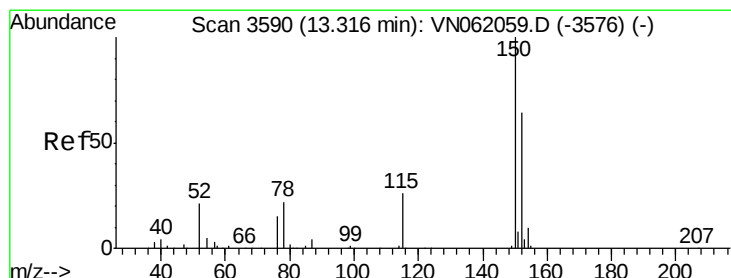
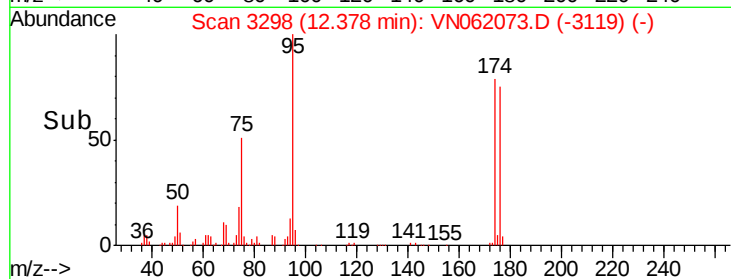
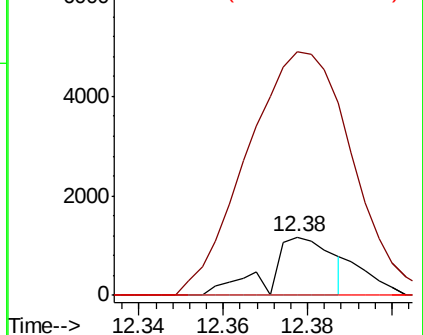
#71
Bromoform
Concen: 0.592 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :
LF017MW005-200616

Tot Ion:173 Resp: 1209
Ion Ratio Lower Upper
173 100
175 584.0 24.7 74.1#
254 0.0 0.0 0.0

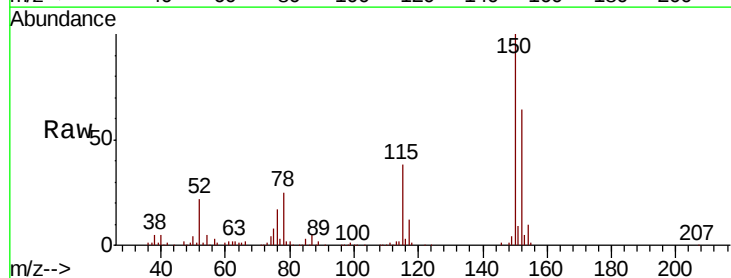


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

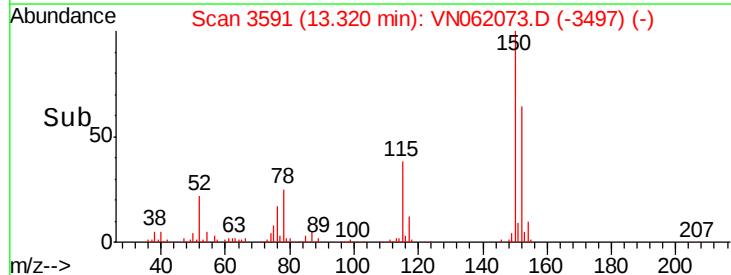
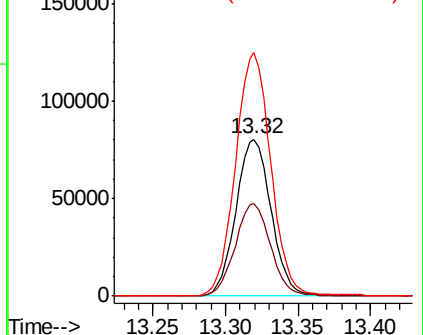


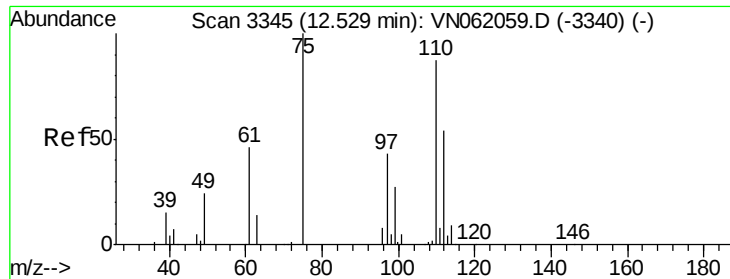
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062073.D
Acq: 24 Jun 2020 19:25

Tgt Ion:152 Resp: 136234
Ion Ratio Lower Upper
152 100
115 59.2 29.5 88.5
150 156.2 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

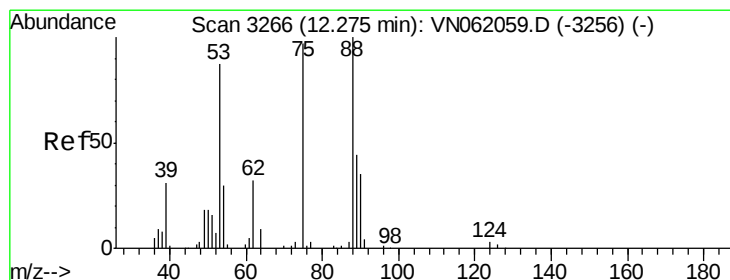
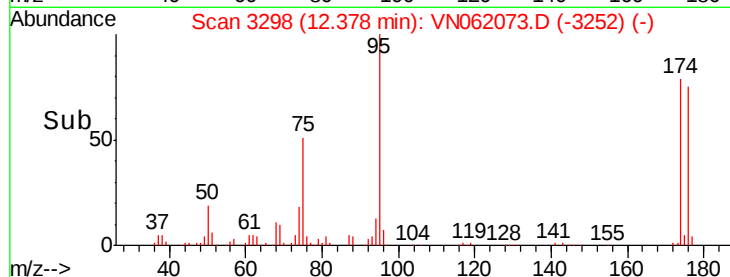
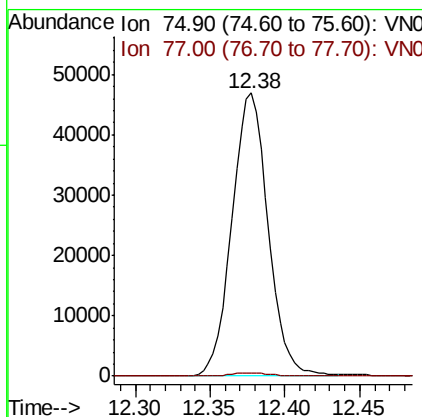
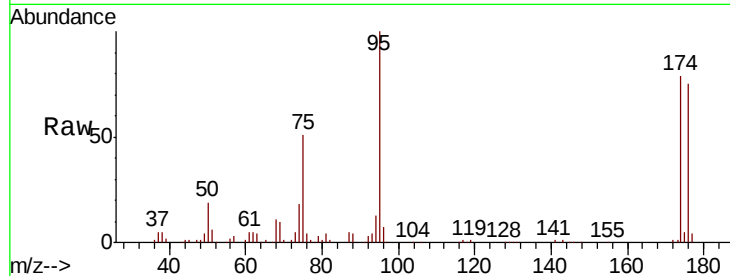




#76
 1,2,3-Trichloropropane
 Concen: 24.631 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

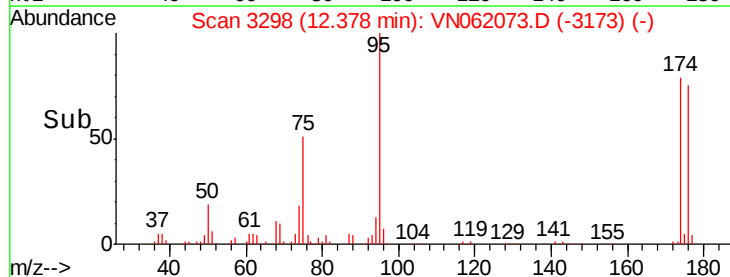
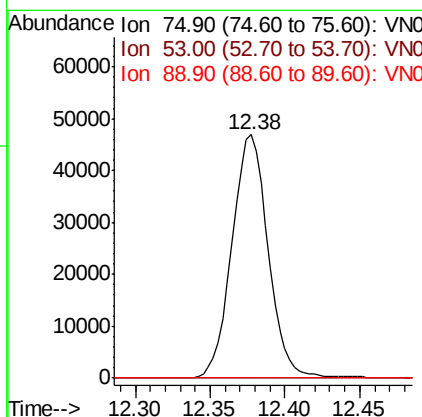
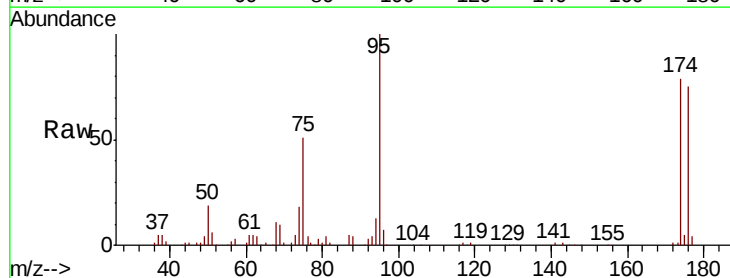
Instrument :
 MSVOA_N
 ClientSampleId :
 LF017MW005-200616

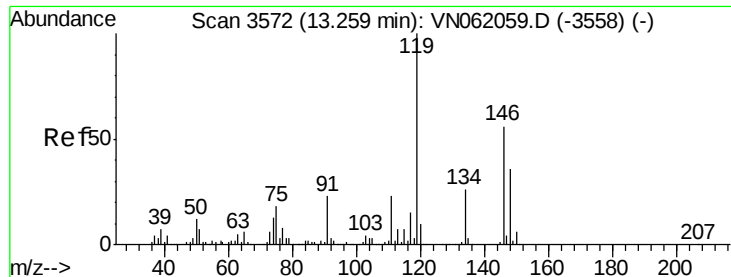
Tot Ion: 75 Resp: 78994
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.933 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Tgt Ion: 75 Resp: 78994
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#

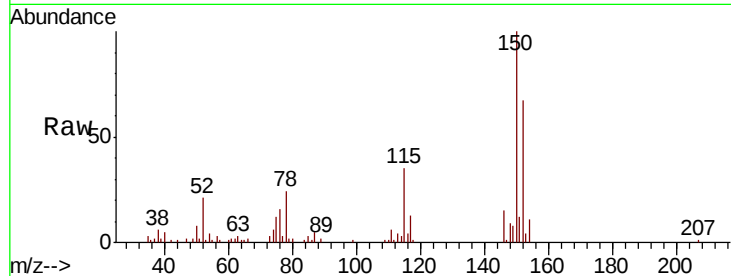




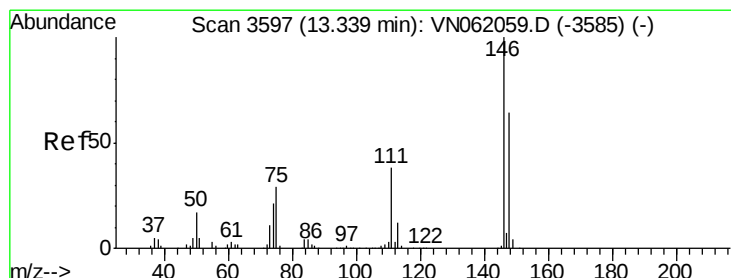
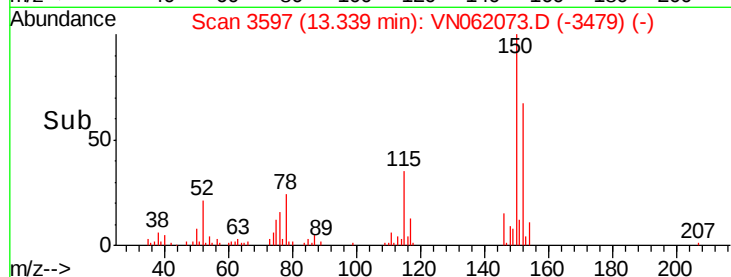
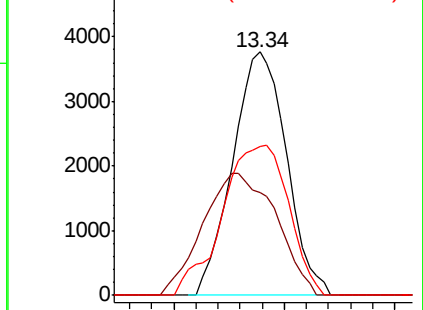
#87
 1,3-Dichlorobenzene
 Concen: 1.390 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.08 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Instrument :
 MSVOA_N
 ClientSampleId :
 LF017MW005-200616

Tot Ion:146 Resp: 6392
 Ion Ratio Lower Upper
 146 100
 111 67.9 20.3 61.0#
 148 75.6 31.8 95.3

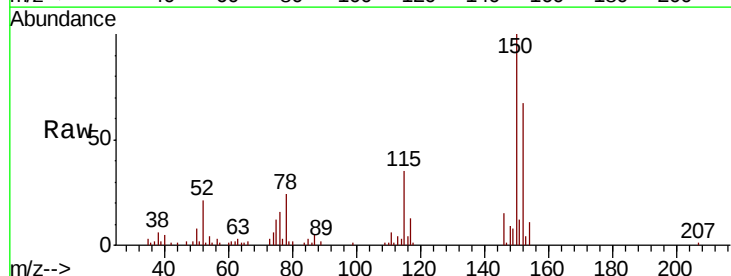


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

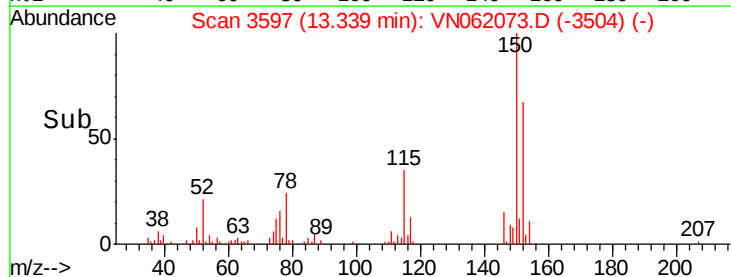
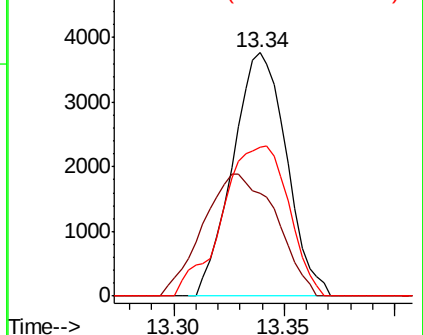


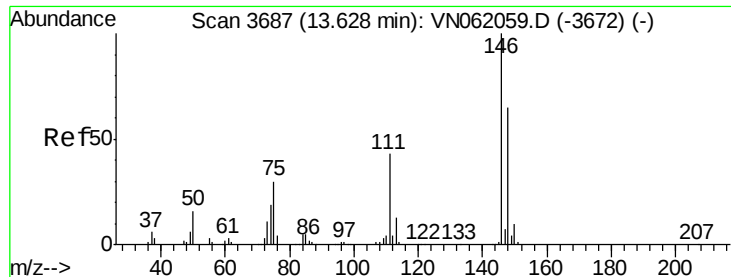
#88
 1,4-Dichlorobenzene
 Concen: 1.349 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Tgt Ion:146 Resp: 6392
 Ion Ratio Lower Upper
 146 100
 111 67.9 19.9 59.6#
 148 75.6 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

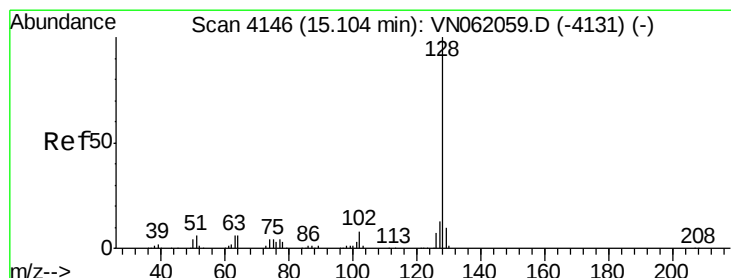
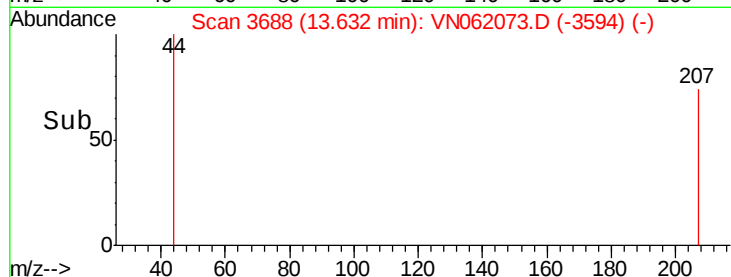
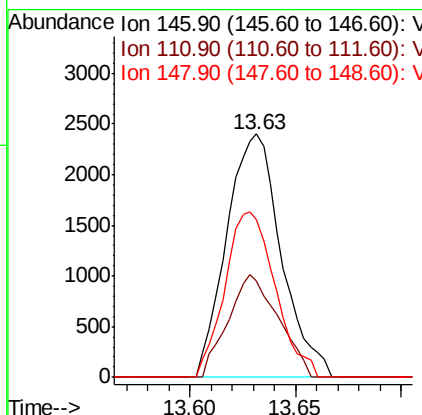
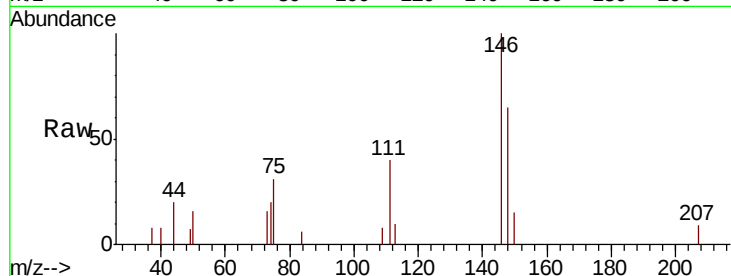




#91
 1,2-Dichlorobenzene
 Concen: 0.967 ug/l
 RT: 13.63 min Scan# 3688
 Delta R.T. 0.00 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Instrument :
 MSVOA_N
 ClientSampleId :
 LF017MW005-200616

Tot Ion:146 Resp: 4309
 Ion Ratio Lower Upper
 146 100
 111 38.8 21.2 63.6
 148 62.6 31.9 95.5



#95
 Naphthalene
 Concen: 4.016 ug/l
 RT: 15.12 min Scan# 4151
 Delta R.T. 0.02 min
 Lab File: VN062073.D
 Acq: 24 Jun 2020 19:25

Tgt Ion:128 Resp: 148
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.6 13.0#

