

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071020\
 Data File : VN062501.D
 Acq On : 10 Jul 2020 18:45
 Operator : JC/MD
 Sample : L3215-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 11 02:09:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	187733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	334342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	323056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	118295	50.00	ug/l	0.00

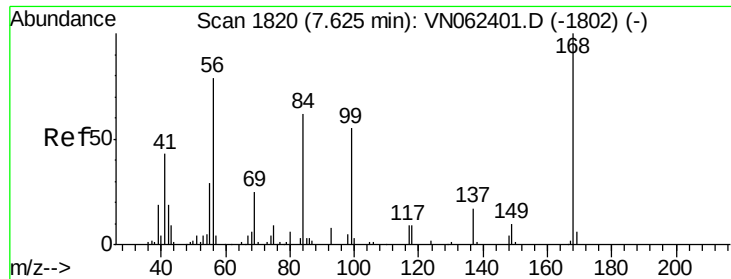
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	143482	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
35) Dibromofluoromethane	7.55	113	108275	52.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.78%	
50) Toluene-d8	10.06	98	433796	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
62) 4-Bromofluorobenzene	12.38	95	152384	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	

Target Compounds

						Qvalue
16) Acetone	3.79	43	11517	9.394	ug/l	98
20) Methylene Chloride	4.49	84	1053	0.402	ug/l	89
25) 2-Butanone	6.80	43	2505	1.399	ug/l	95
29) Tetrahydrofuran	7.18	42	1136	0.942	ug/l #	68
31) Cyclohexane	7.63	56	4418	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16852	5.003	ug/l #	51
38) Carbon Tetrachloride	7.62	117	18825	6.216	ug/l #	16
41) Methacrylonitrile	7.18	41	819	0.498	ug/l #	26
51) 4-Methyl-2-Pentanone	9.96	43	1743	0.469	ug/l #	65
52) Toluene	10.12	92	137251	23.935	ug/l	98
53) t-1,3-Dichloropropene	10.12	75	1664	0.427	ug/l #	1
71) Bromoform	12.37	173	1098	0.647	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	80120	27.603	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	80120	73.882	ug/l #	10
95) Naphthalene	15.10	128	130	Below Cal	#	70

(#) = 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: VN062501.D

Acq: 10 Jul 2020 18:45

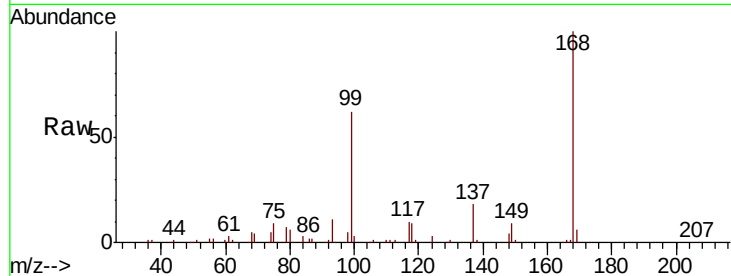
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 187733

Ion Ratio Lower Upper

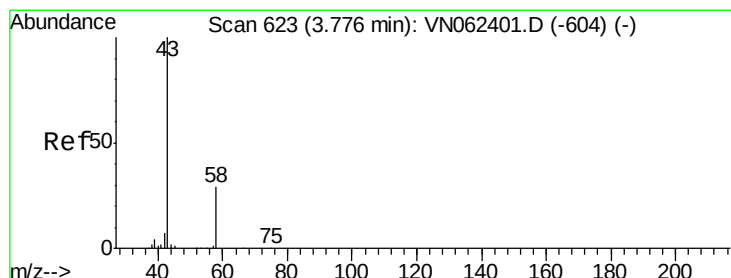
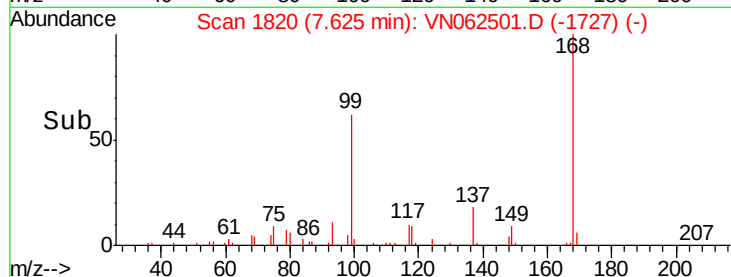
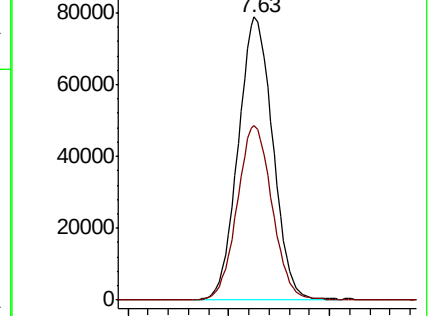
168 100

99 61.7 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 9.394 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062501.D

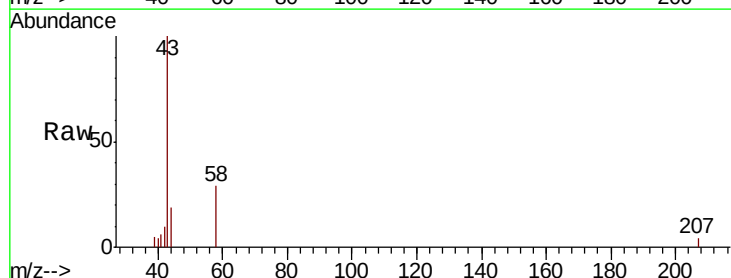
Acq: 10 Jul 2020 18:45

Tgt Ion: 43 Resp: 11517

Ion Ratio Lower Upper

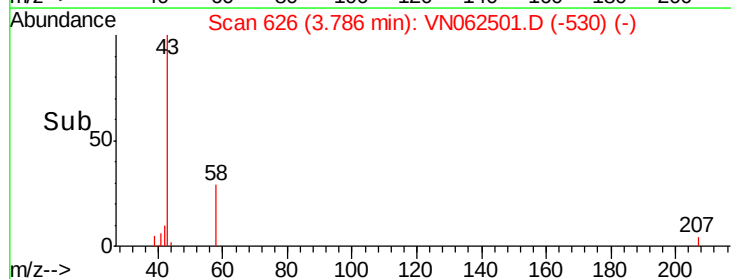
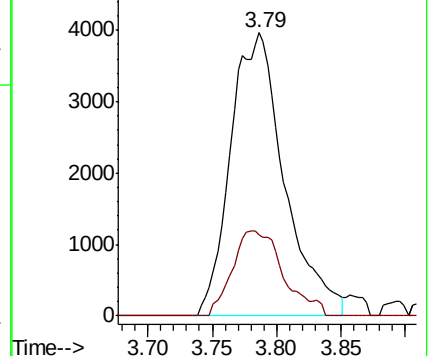
43 100

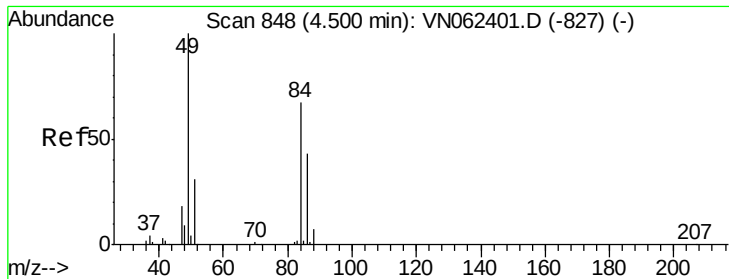
58 28.6 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

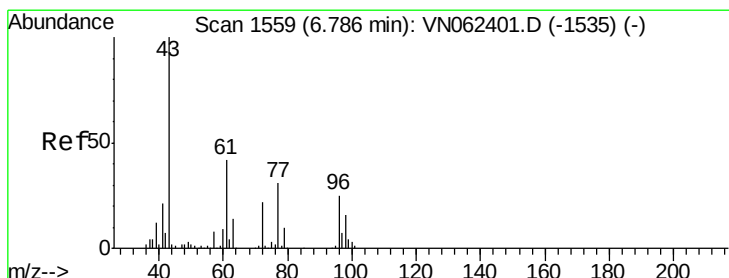
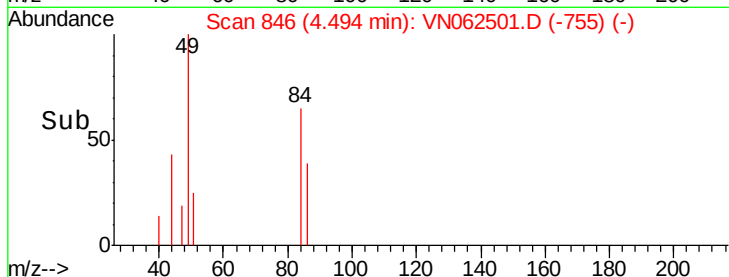
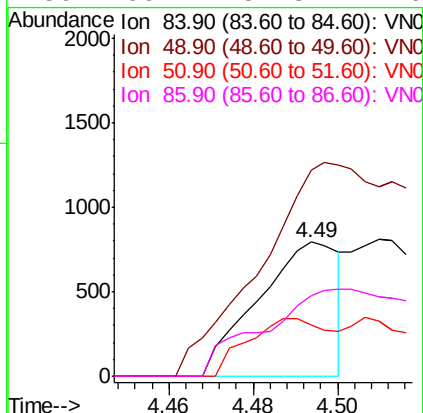
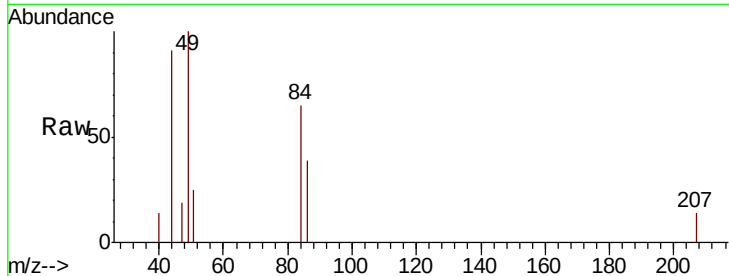




#20
Methvlene Chloride
Concen: 0.402 ug/l
RT: 4.49 min Scan# 846
Delta R.T. -0.01 min
Lab File: VN062501.D
Acq: 10 Jul 2020 18:45

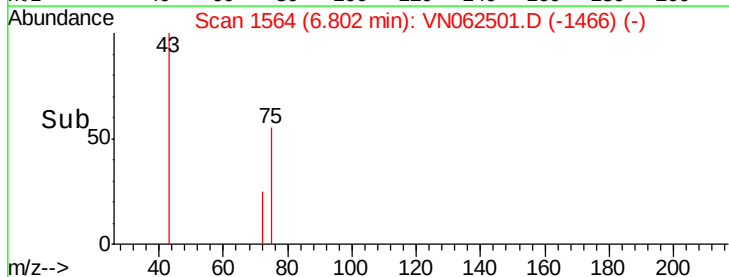
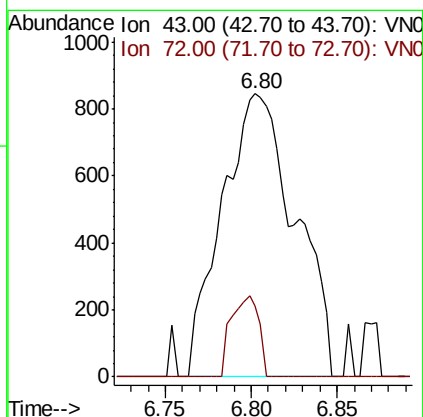
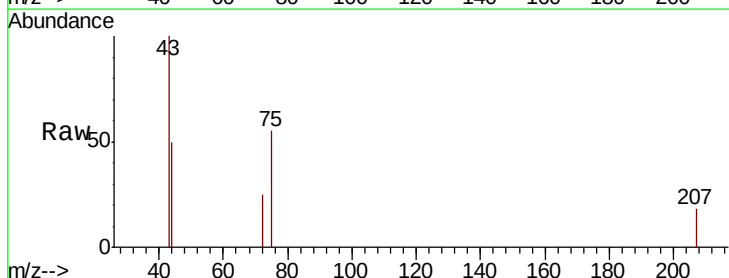
Instrument :
MSVOA_N
ClientSampled :

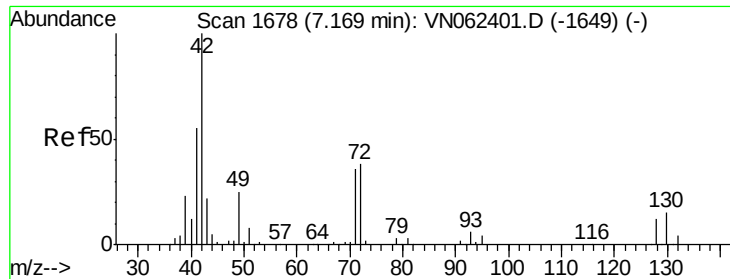
Tot Ion:	84	Resp:	1053
Ion	Ratio	Lower	Upper
84	100		
49	133.0	120.0	180.0
51	38.6	37.0	55.6
86	60.7	51.8	77.6



#25
2-Butanone
Concen: 1.399 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062501.D
Acq: 10 Jul 2020 18:45

Tgt Ion:	43	Resp:	2505
Ion	Ratio	Lower	Upper
43	100		
72	25.0	17.9	26.9





#29

Tetrahydrofuran

Concen: 0.942 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Instrument :

MSVOA_N

ClientSampleId :

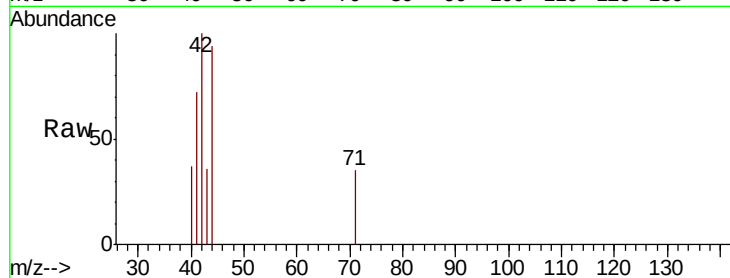
Tot Ion: 42 Resp: 1136

Ion Ratio Lower Upper

42 100

72 13.6 29.1 43.7#

71 20.0 28.1 42.1#



Abundance Ion 42.00 (41.70 to 42.70): VN062401.D (-1649) (-)

Ion 72.00 (71.70 to 72.70): VN062401.D (-1649) (-)

Ion 71.00 (70.70 to 71.70): VN062401.D (-1649) (-)

7.18

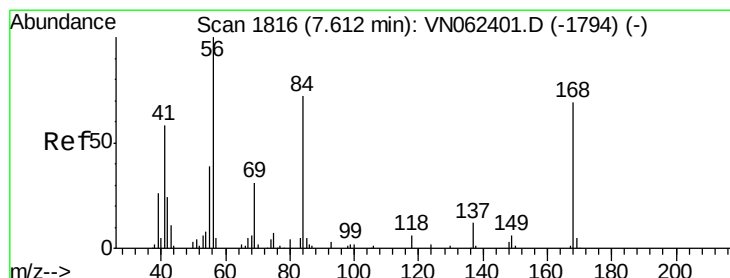
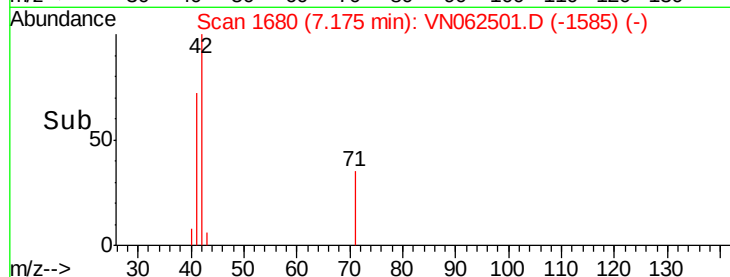
400

200

0

7.15 7.20

Time-->



#31

Cyclohexane

Concen: 1.007 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

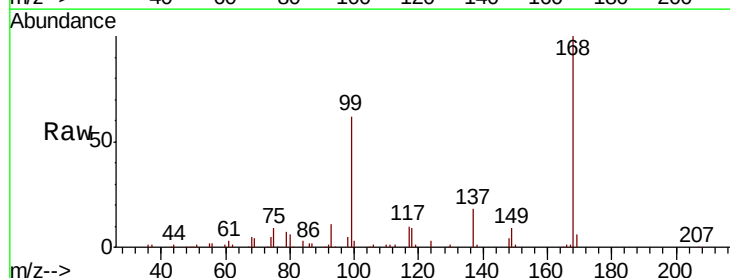
Tgt Ion: 56 Resp: 4418

Ion Ratio Lower Upper

56 100

69 171.5 24.5 36.7#

84 128.7 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VN062401.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN062401.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN062401.D (-1794) (-)

7.63

4000

3000

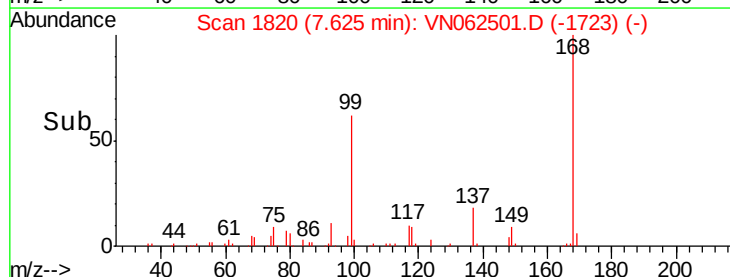
2000

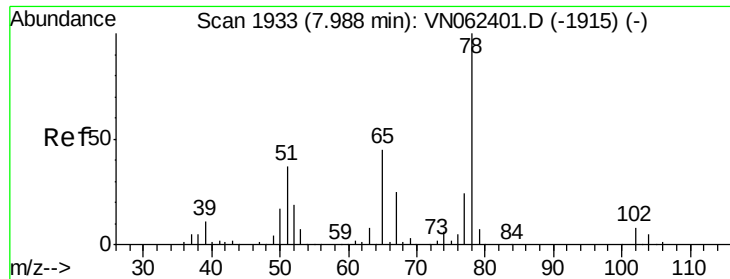
1000

0

7.55 7.60 7.65

Time-->

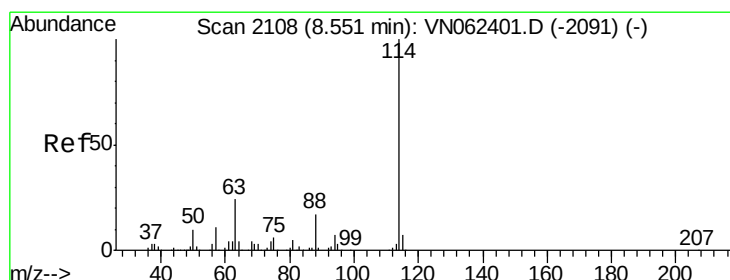
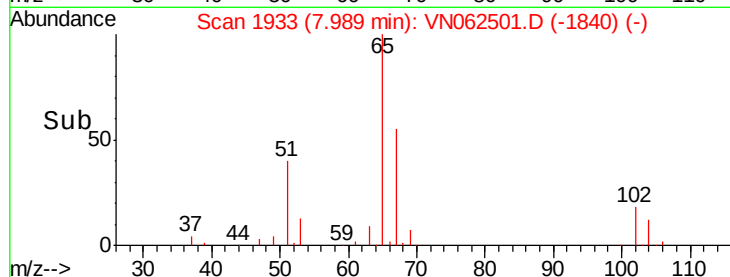
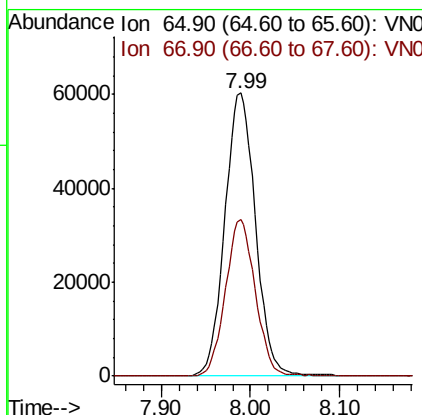
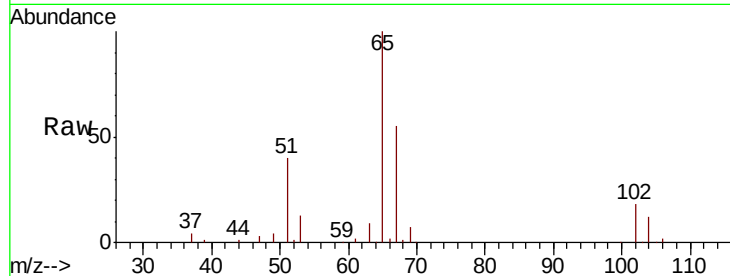




#33
 1,2-Dichloroethane-d4
 Concen: 49.689 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

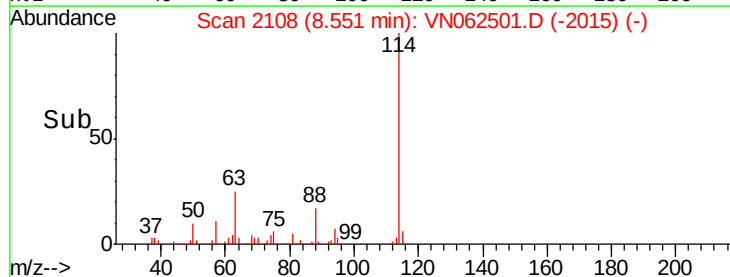
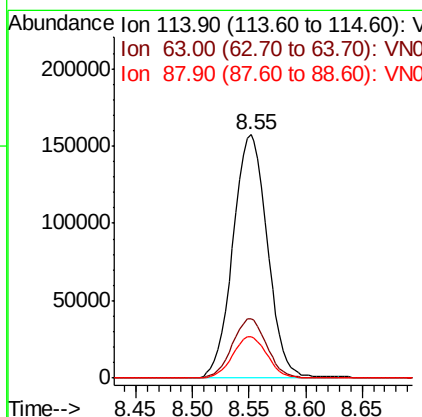
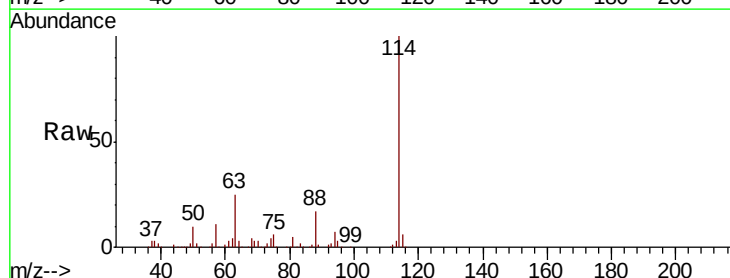
Instrument :
 MSVOA_N
 ClientSampleId :

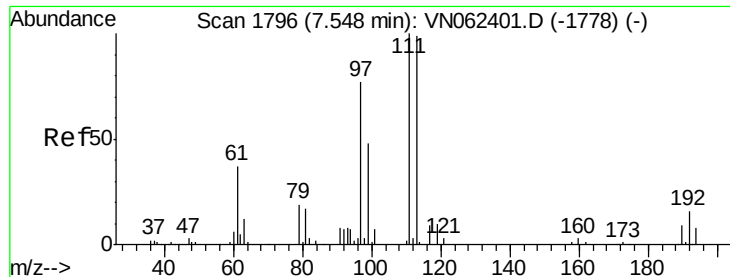
Tot Ion: 65 Resp: 143482
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

Tgt Ion: 114 Resp: 334342
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 48.4
 88 17.0 0.0 33.8

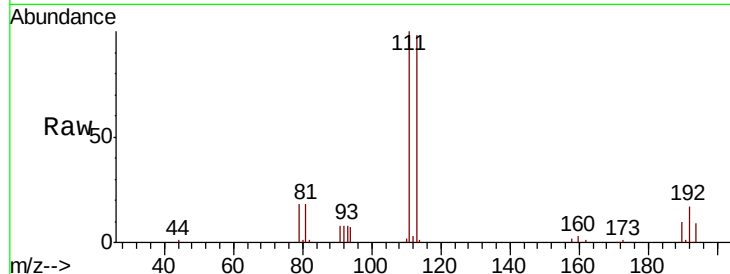




#35
 Dibromofluoromethane
 Concen: 52.391 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.1	124.7
192	17.7	14.1	21.1

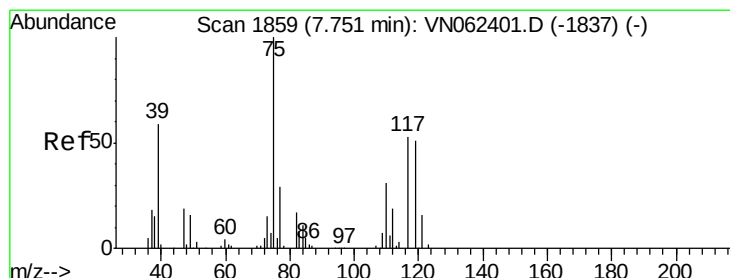
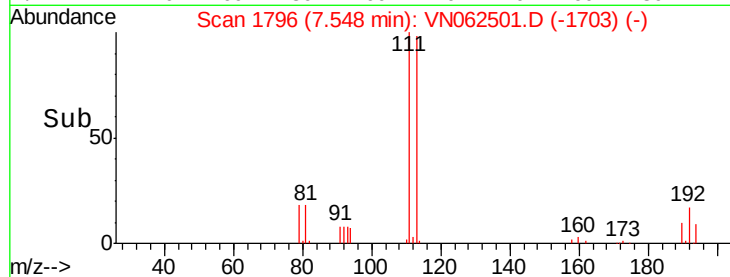
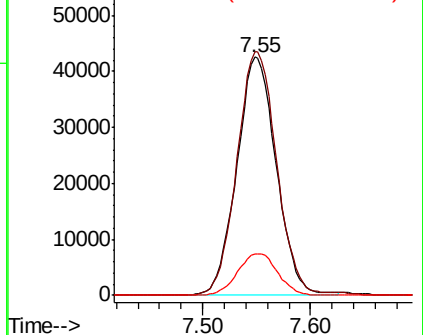


Abundance

Ion 112.80 (112.50 to 113.50): V

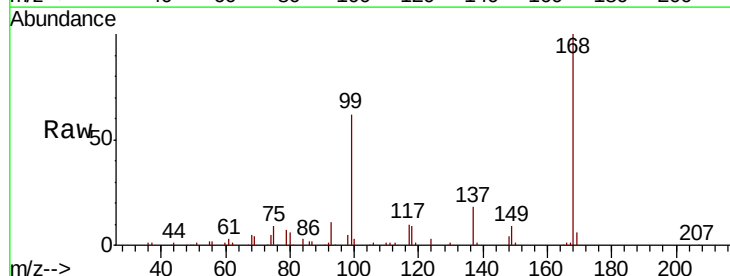
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.003 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	15.4	46.2#
77	0.0	24.1	36.1#

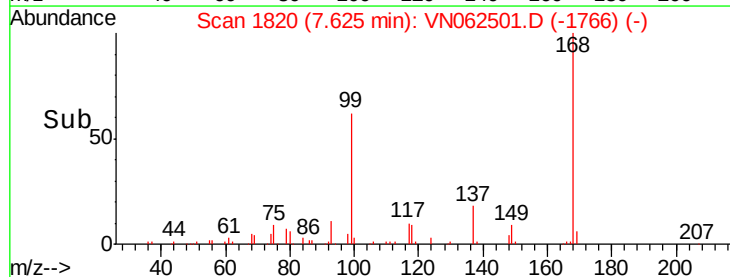
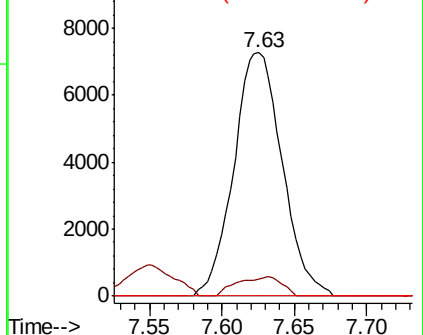


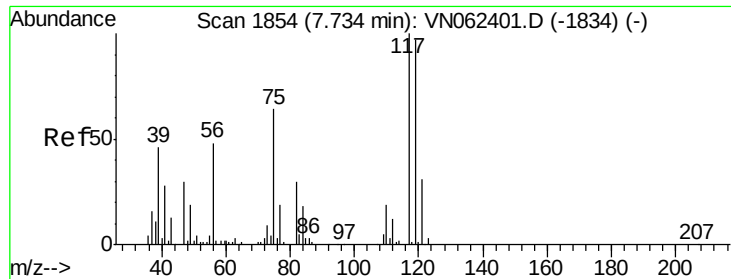
Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.216 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Instrument :

MSVOA_N

ClientSampleId :

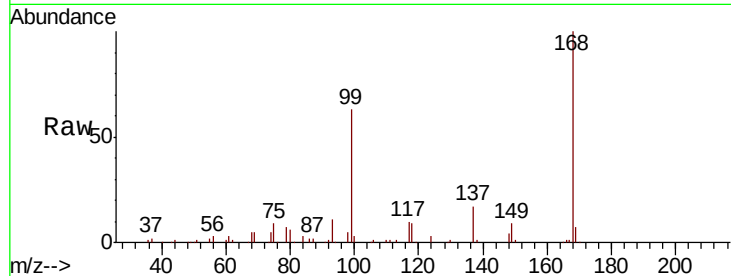
Tot Ion:117 Resp: 18825

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

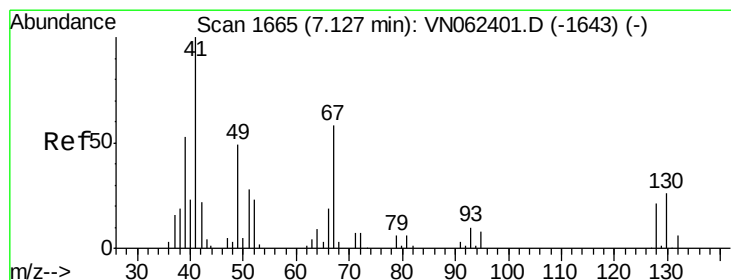
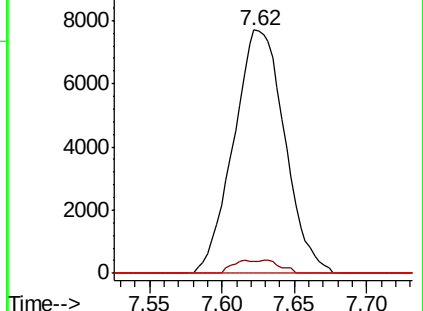
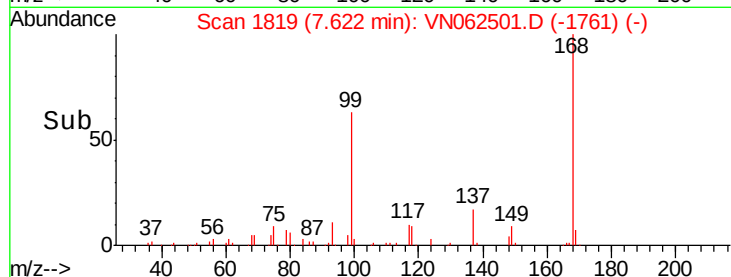
121 0.0 24.8 37.2#



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



#41

Methacrylonitrile

Concen: 0.498 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.05 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Tgt Ion: 41 Resp: 819

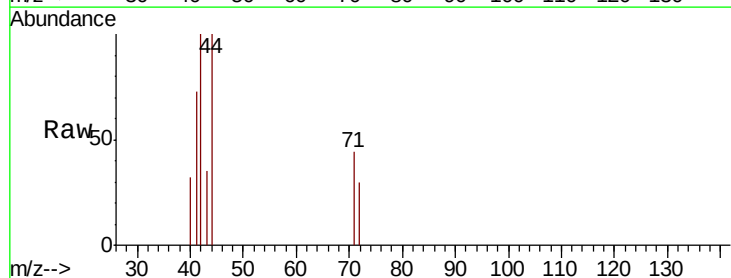
Ion Ratio Lower Upper

41 100

39 16.2 50.2 75.2#

67 0.0 64.2 96.2#

52 0.0 28.0 42.0#

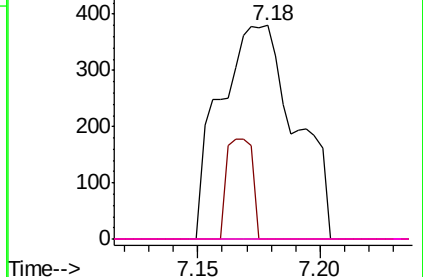
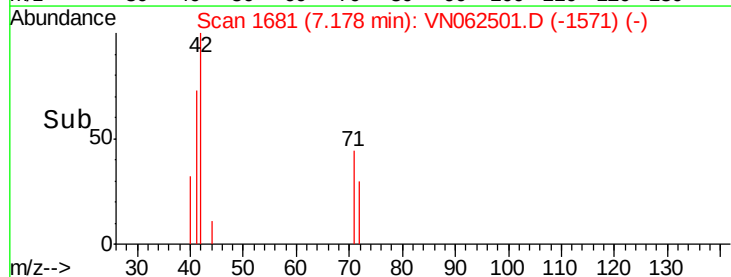


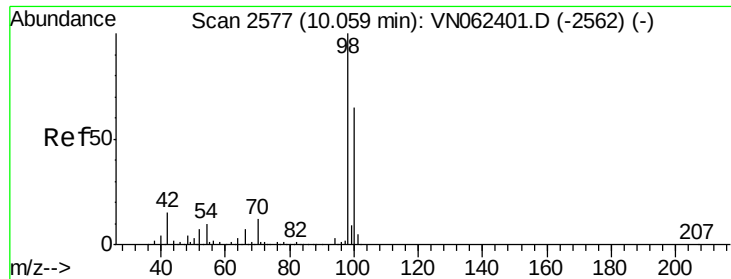
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

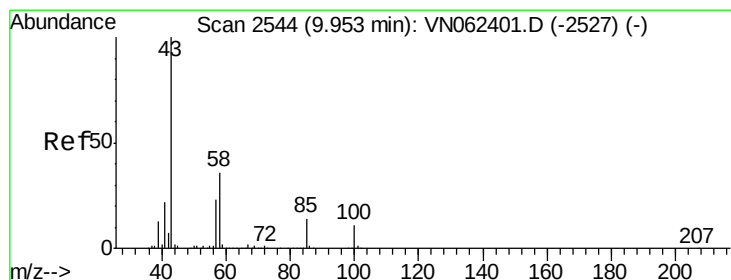
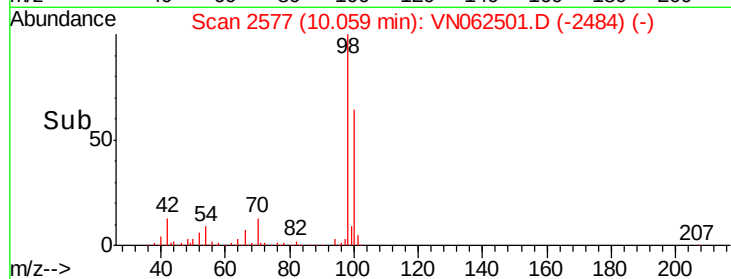
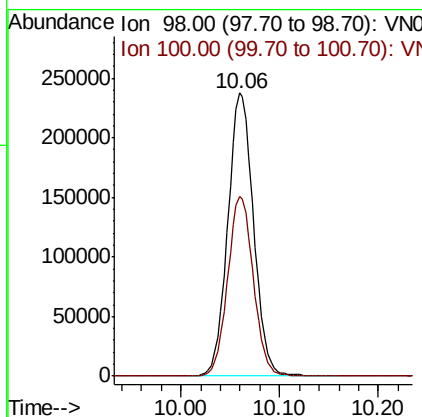
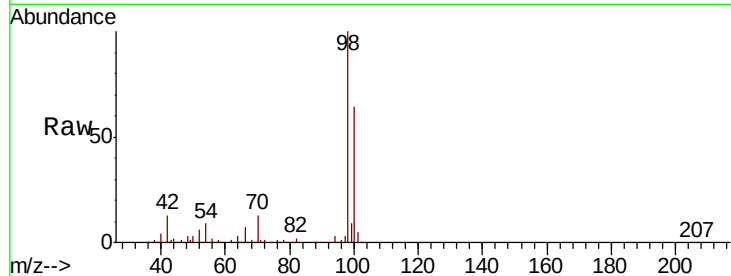




#50
Toluene-d8
Concen: 53.170 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062501.D
Acq: 10 Jul 2020 18:45

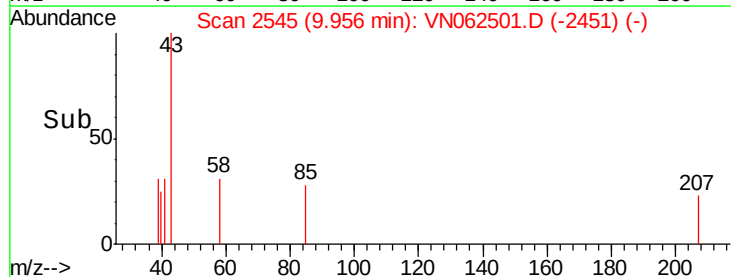
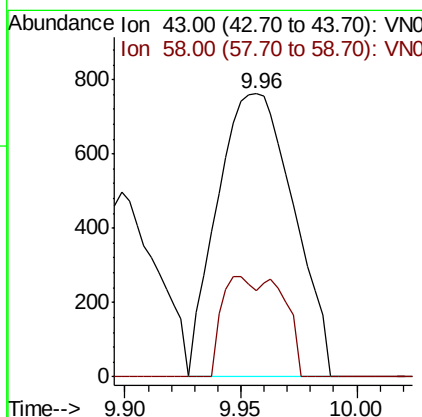
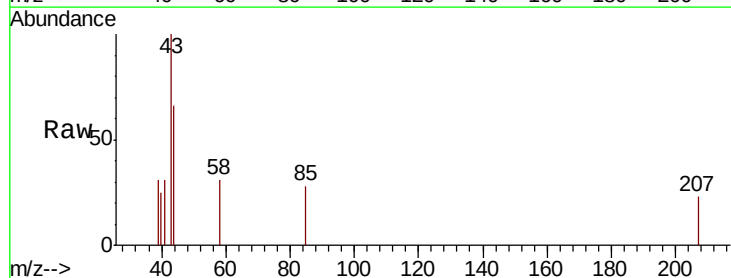
Instrument :
MSVOA_N
ClientSampled :

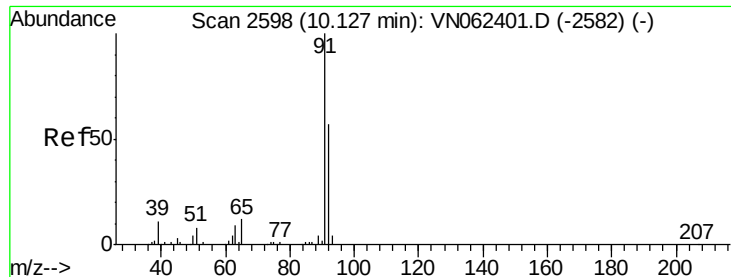
Tot Ion: 98 Resp: 433796
Ion Ratio Lower Upper
98 100
100 63.2 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.469 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062501.D
Acq: 10 Jul 2020 18:45

Tgt Ion: 43 Resp: 1743
Ion Ratio Lower Upper
43 100
58 15.8 29.0 43.6#





#52

Toluene

Concen: 23.935 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Instrument :

MSVOA_N

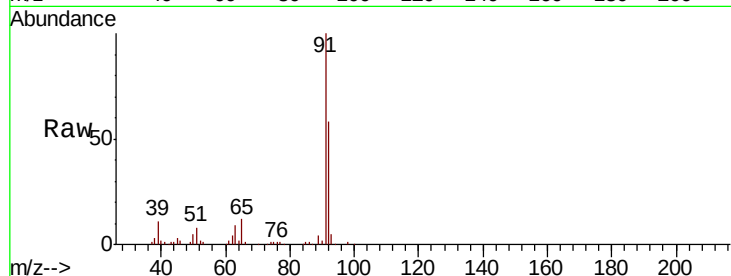
ClientSampled :

Tot Ion: 92 Resp: 137251

Ion Ratio Lower Upper

92 100

91 173.7 141.0 211.6



Abundance Ion 92.00 (91.70 to 92.70): VN062501.D (-2505) (-)

Ion 91.00 (90.70 to 91.70): VN062501.D (-2505) (-)

150000

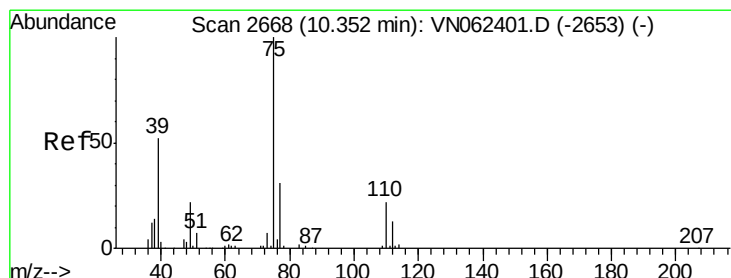
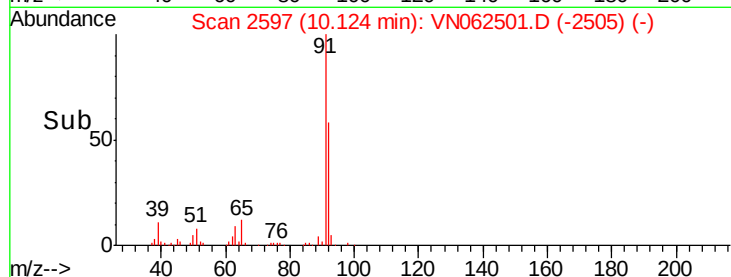
100000

50000

0

10.10 10.12 10.20

Time-->



#53

t-1,3-Dichloropropene

Concen: 0.427 ug/l

RT: 10.12 min Scan# 2596

Delta R.T. -0.23 min

Lab File: VN062501.D

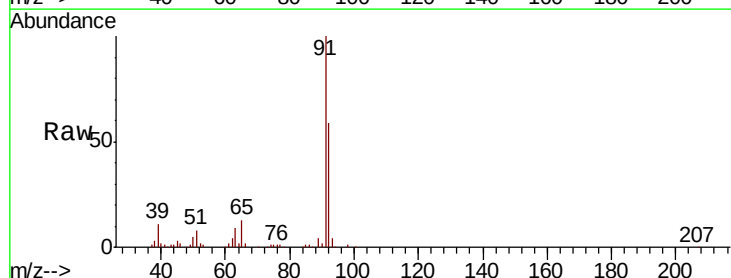
Acq: 10 Jul 2020 18:45

Tgt Ion: 75 Resp: 1664

Ion Ratio Lower Upper

75 100

77 161.4 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN062501.D (-2575) (-)

Ion 76.90 (76.60 to 77.60): VN062501.D (-2575) (-)

1500

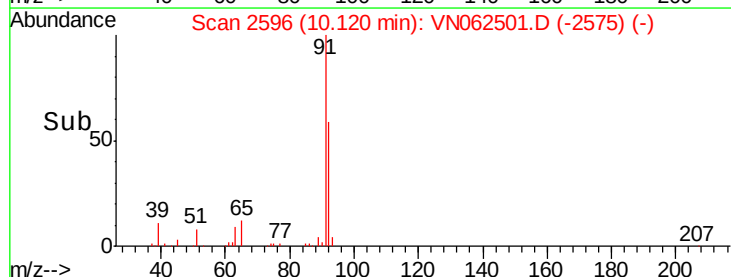
1000

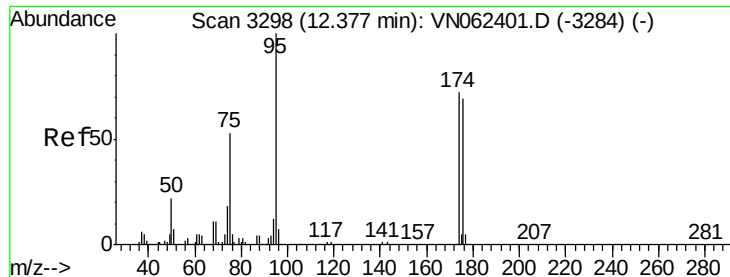
500

0

10.10 10.12 10.15

Time-->





#62

4-Bromofluorobenzene

Concen: 51.111 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Instrument :

MSVOA_N

ClientSampled :

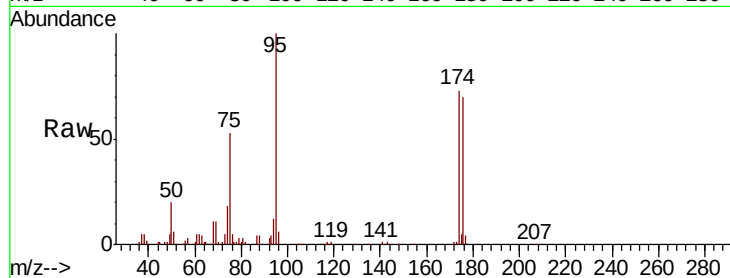
Tot Ion: 95 Resp: 152384

Ion Ratio Lower Upper

95 100

174 73.3 0.0 141.6

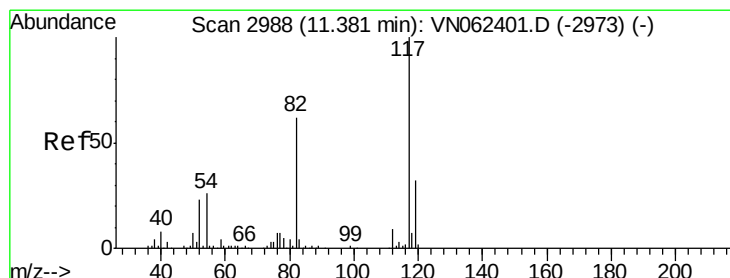
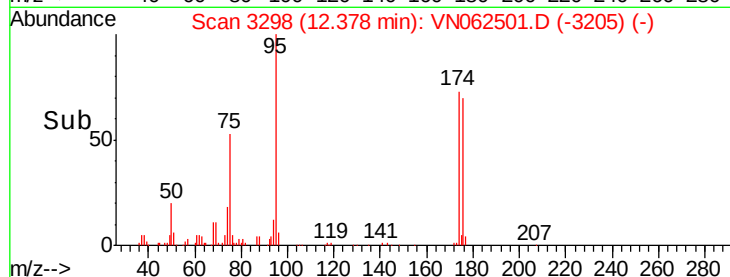
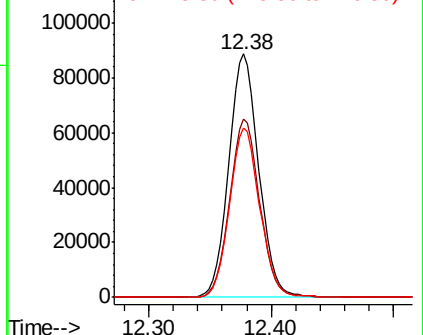
176 69.9 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062501.D (-3295) (-)

Ion 173.80 (173.50 to 174.50): VN062501.D (-3295) (-)

Ion 175.80 (175.50 to 176.50): VN062501.D (-3295) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

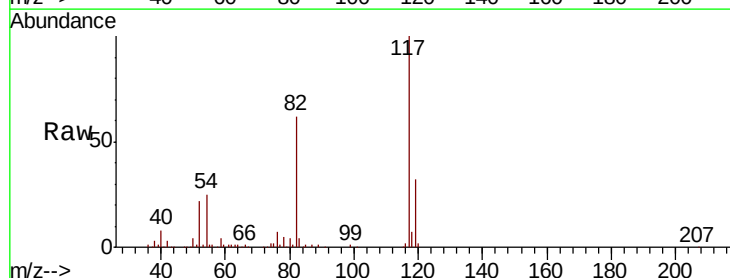
Tgt Ion: 117 Resp: 323056

Ion Ratio Lower Upper

117 100

82 62.2 49.6 74.4

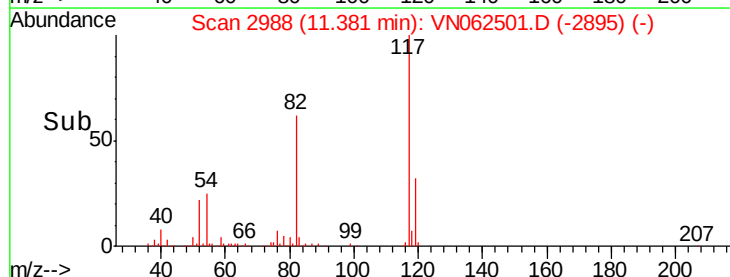
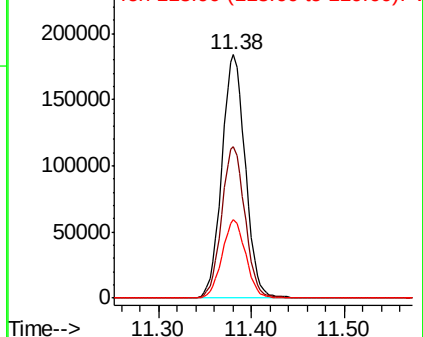
119 32.0 25.4 38.0

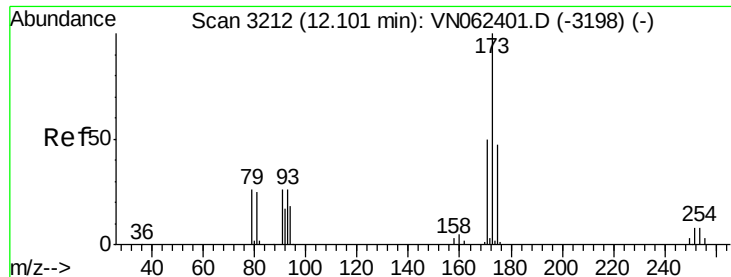


Abundance Ion 116.90 (116.60 to 117.60): VN062501.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062501.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062501.D (-2895) (-)





#71

Bromoform

Concen: 0.647 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062501.D

Acq: 10 Jul 2020 18:45

Instrument :

MSVOA_N

ClientSampleId :

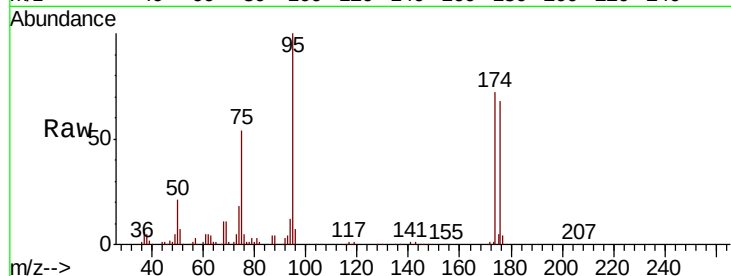
Tot Ion:173 Resp: 1098

Ion Ratio Lower Upper

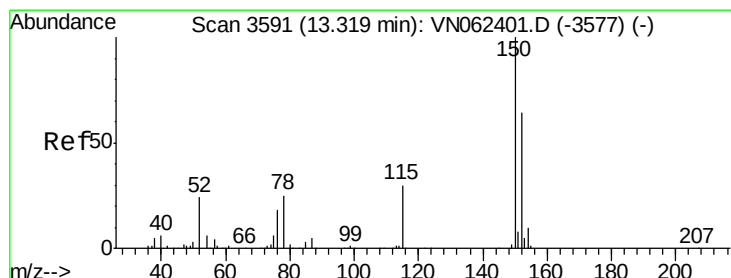
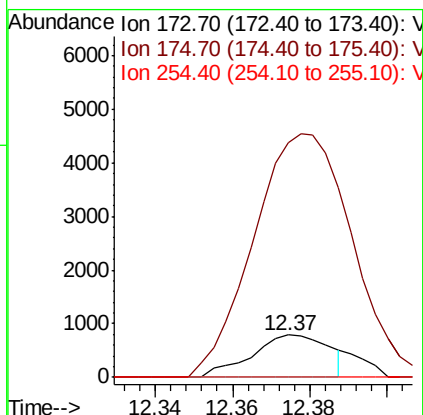
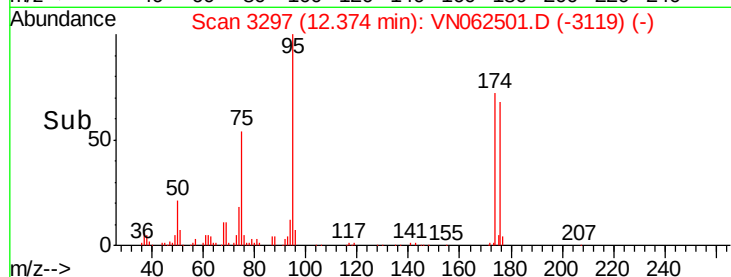
173 100

175 603.2 23.7 71.1#

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: VN062501.D

Acq: 10 Jul 2020 18:45

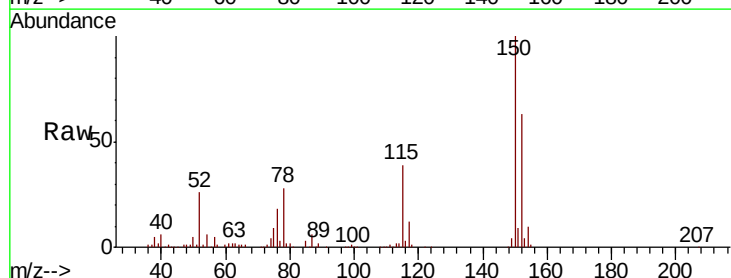
Tgt Ion:152 Resp: 118295

Ion Ratio Lower Upper

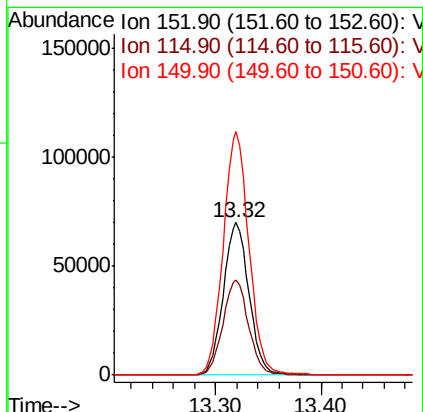
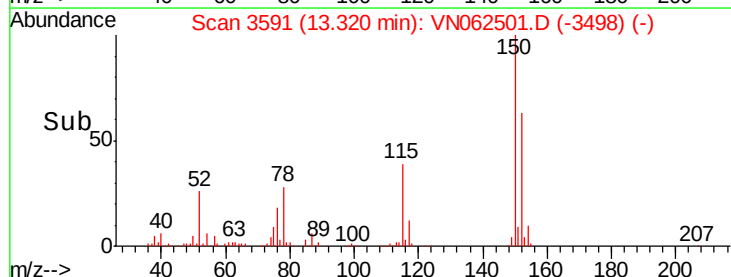
152 100

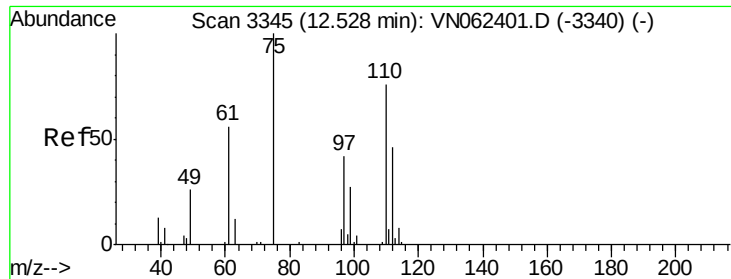
115 62.2 31.4 94.2

150 159.1 0.0 347.4



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

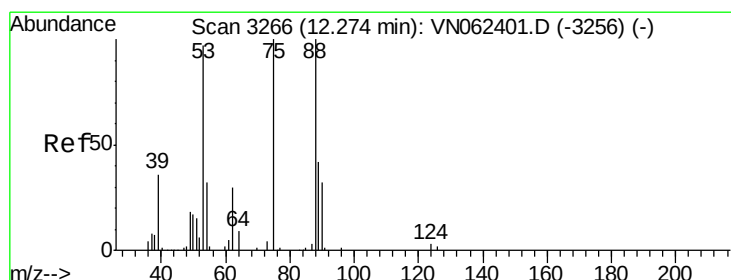
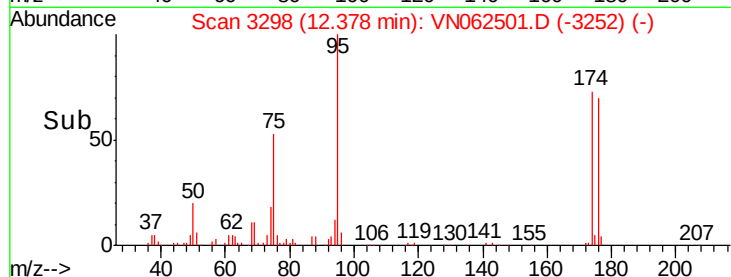
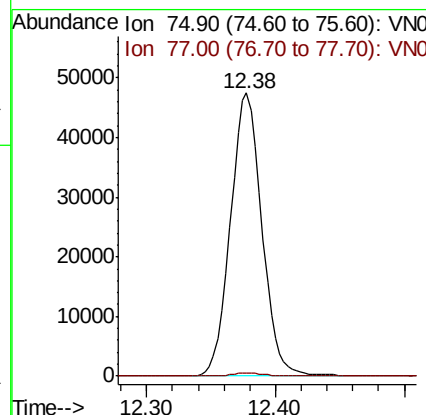
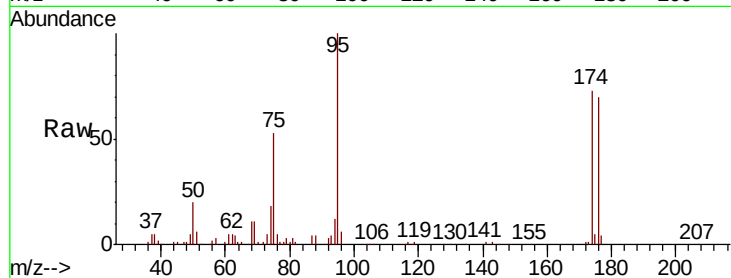




#76
 1,2,3-Trichloropropane
 Concen: 27.603 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

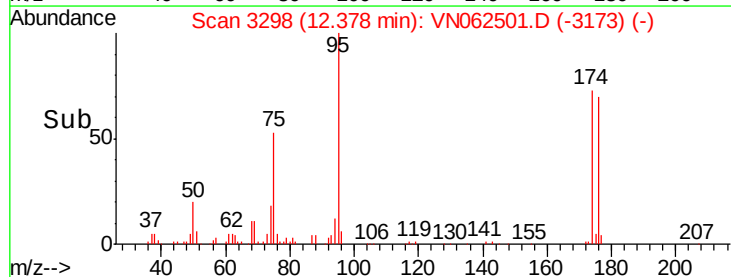
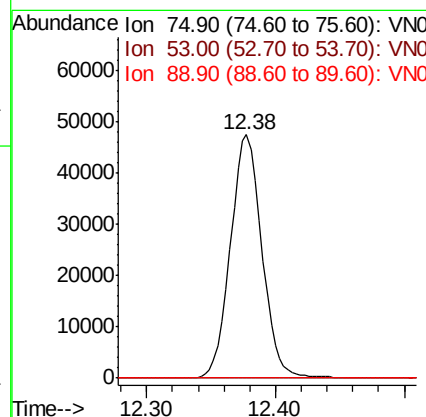
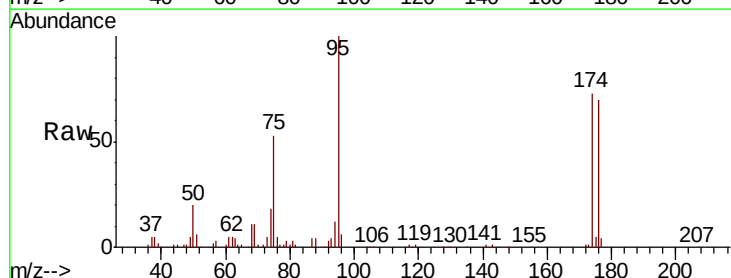
Instrument :
 MSVOA_N
 ClientSampleId :

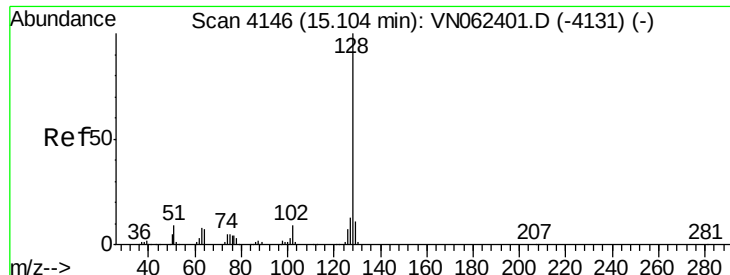
Tot Ion: 75 Resp: 80120
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.882 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062501.D
 Acq: 10 Jul 2020 18:45

Tgt Ion: 75 Resp: 80120
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 34.6 52.0#





#95
Naphthalene
Concen: Below Cal
RT: 15.10 min Scan# 4145
Delta R.T. -0.00 min
Lab File: VN062501.D
Acq: 10 Jul 2020 18:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.6	12.8#

