

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\
 Data File : VN062618.D
 Acq On : 27 Jul 2020 23:02
 Operator : JC/MD
 Sample : L3439-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20200439-3001B

Quant Time: Jul 28 06:28:03 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	140922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	255798	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	257606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	110024	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	119792	54.72	ug/l	0.00
Spiked Amount			Recovery	=	109.44%	
35) Dibromofluoromethane	7.55	113	84425	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
50) Toluene-d8	10.06	98	333568	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.38	95	128782	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	

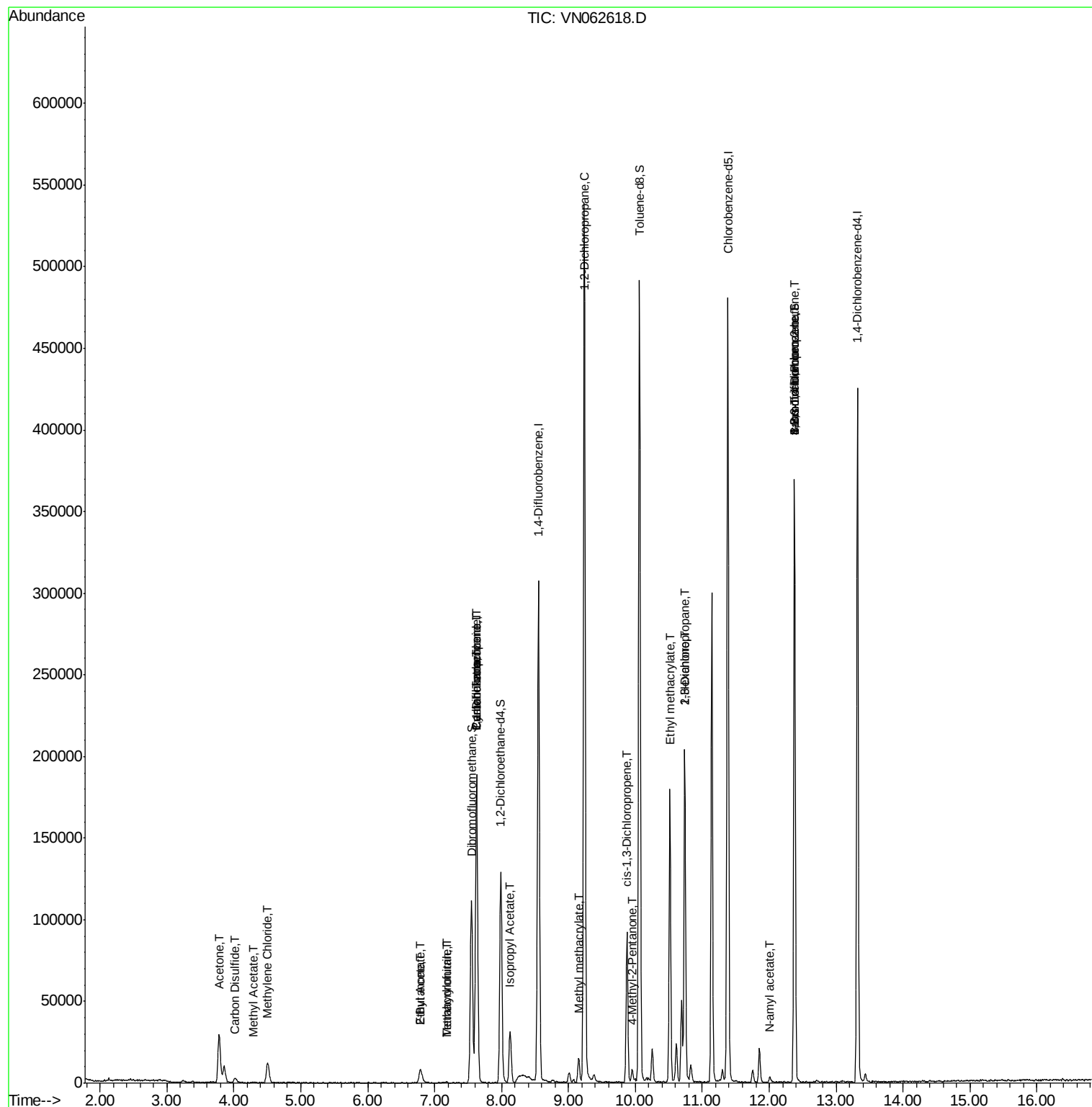
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	52032	63.161	ug/l	96
17) Carbon Disulfide	4.01	76	2883	0.582	ug/l #	75
18) Methyl Acetate	4.29	43	879	0.421	ug/l #	56
20) Methylene Chloride	4.51	84	9628	4.873	ug/l	92
25) 2-Butanone	6.79	43	12912	10.292	ug/l	92
29) Tetrahydrofuran	7.18	42	488	0.575	ug/l #	43
31) Cyclohexane	7.63	56	3394	1.052	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	12287	4.506	ug/l #	50
37) Ethyl Acetate	6.79	43	12912	4.393	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14744	5.626	ug/l #	18
41) Methacrylonitrile	7.18	41	372	0.295	ug/l #	14
43) Isopropyl Acetate	8.13	43	39410	8.318	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	603	0.260	ug/l #	44
48) Methyl methacrylate	9.14	41	2384	1.058	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	4761	1.679	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	14685	4.236	ug/l #	69
56) Ethyl methacrylate	10.52	69	835	2.010	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2021	0.593	ug/l #	42
59) 2-Hexanone	10.74	43	31199	17.021	ug/l #	55
71) Bromoform	12.37	173	479	0.314	ug/l #	1
74) N-amyl acetate	12.01	43	3426	0.882	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	72042	25.725	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	72042	71.611	ug/l #	12

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

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ClientSampled :
20200439-3001B

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

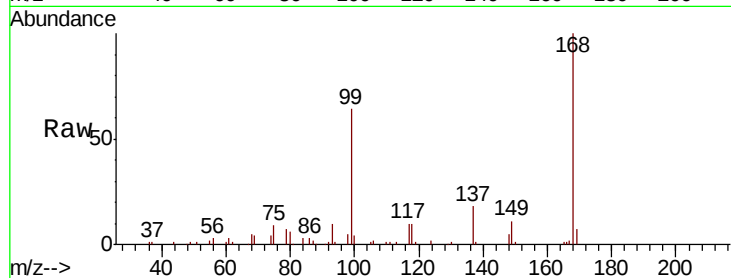
20200439-3001B

Tot Ion:168 Resp: 140922

Ion Ratio Lower Upper

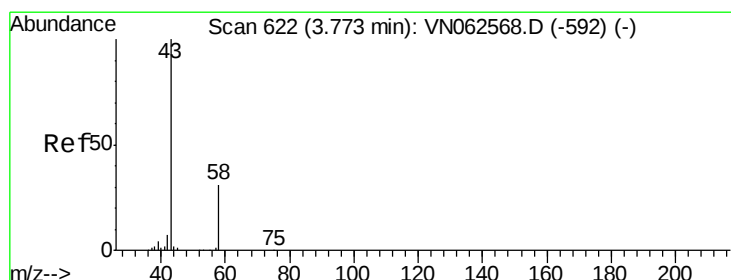
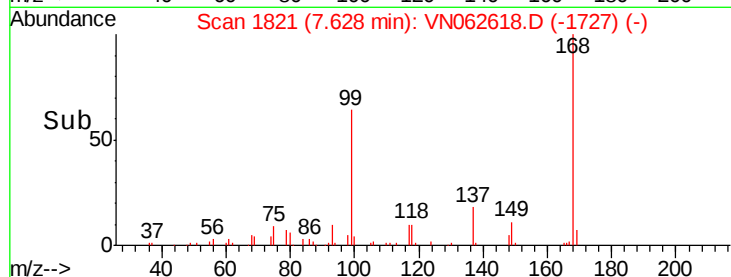
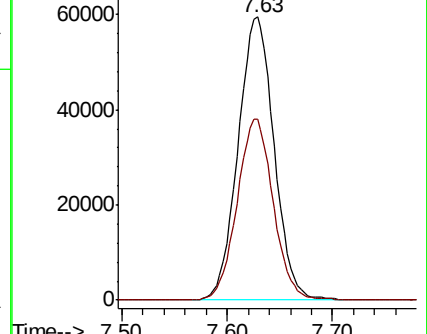
168 100

99 64.0 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 63.161 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062618.D

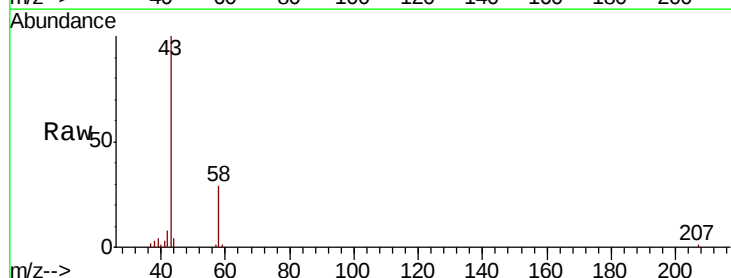
Acq: 27 Jul 2020 23:02

Tgt Ion: 43 Resp: 52032

Ion Ratio Lower Upper

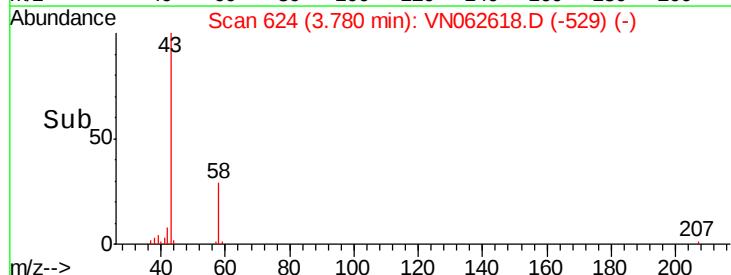
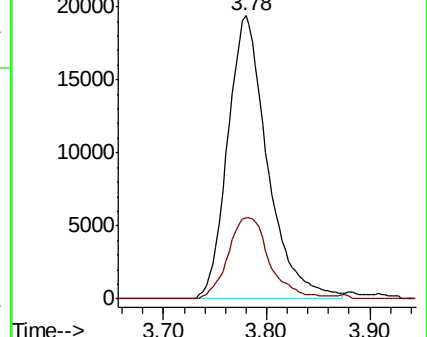
43 100

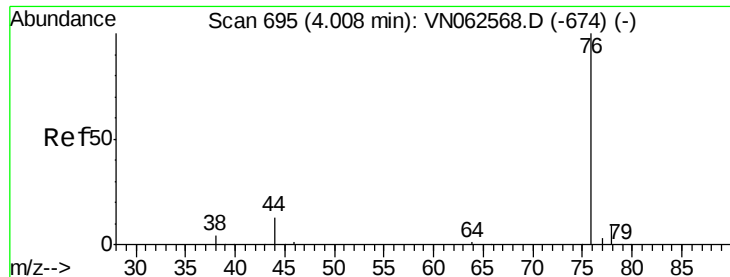
58 28.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

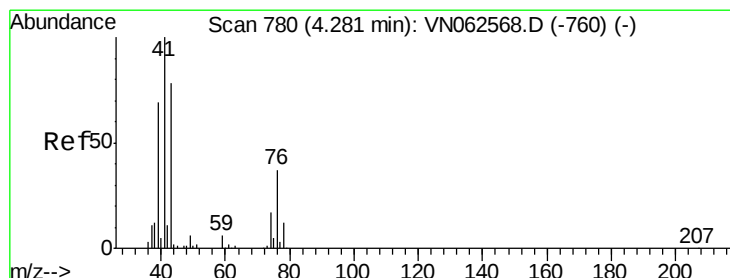
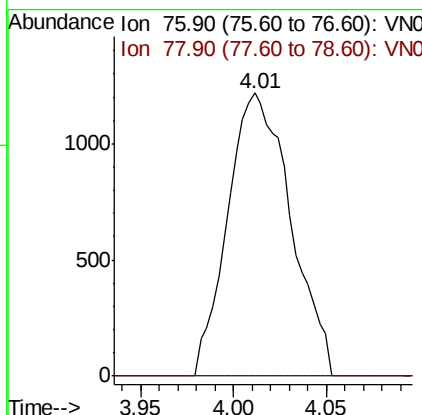
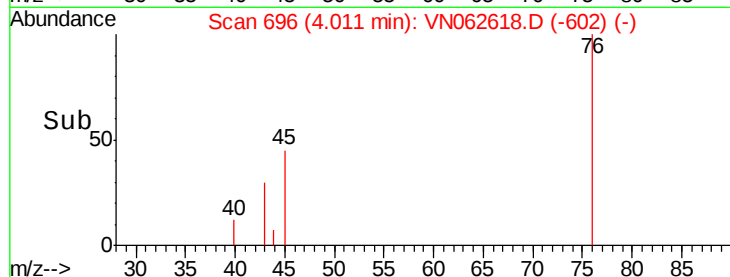
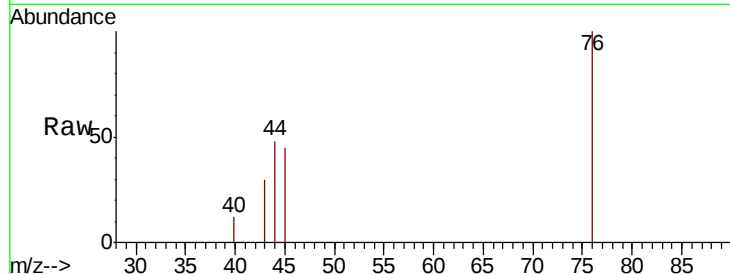




#17
 Carbon Disulfide
 Concen: 0.582 ug/l
 RT: 4.01 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

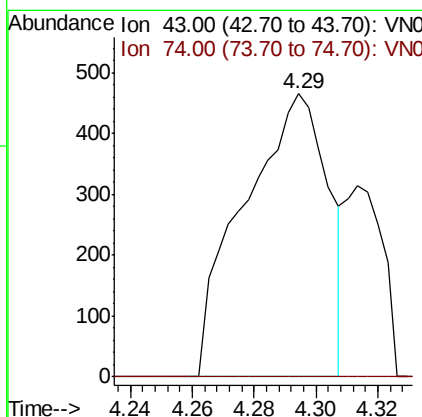
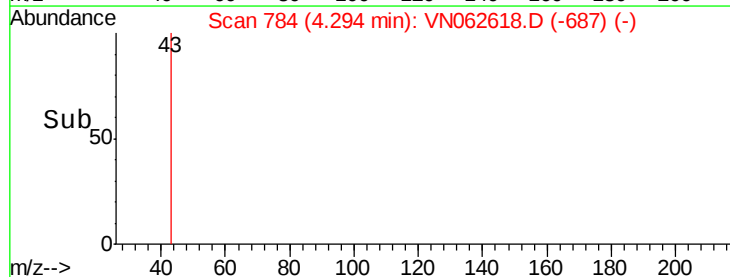
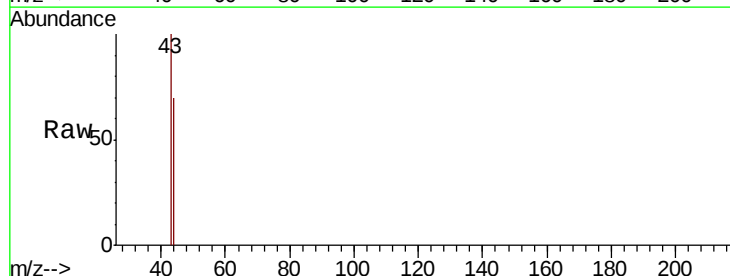
Instrument :
 MSVOA_N
 ClientSampleId :
 20200439-3001B

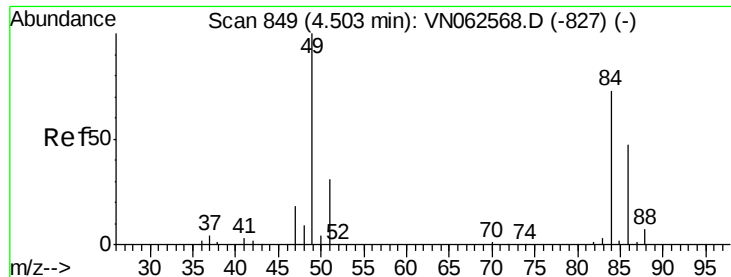
Tot Ion: 76 Resp: 2883
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.3 10.9#



#18
 Methyl Acetate
 Concen: 0.421 ug/l
 RT: 4.29 min Scan# 784
 Delta R.T. 0.01 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Tgt Ion: 43 Resp: 879
 Ion Ratio Lower Upper
 43 100
 74 0.0 16.6 24.8#

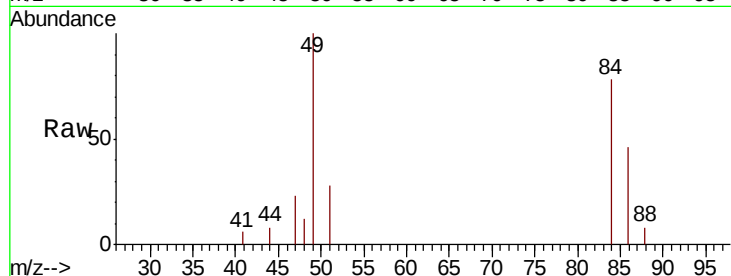




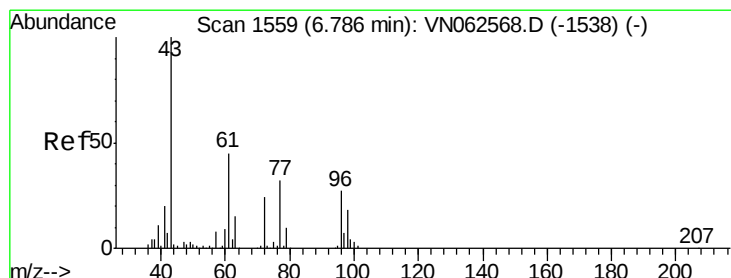
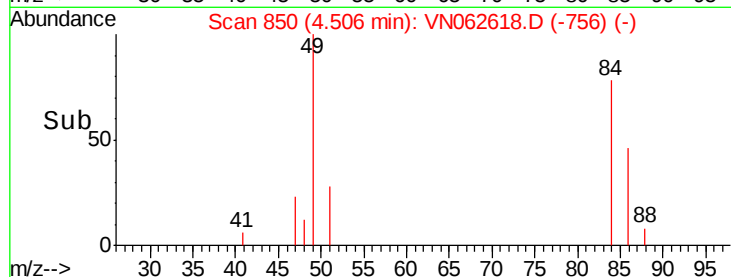
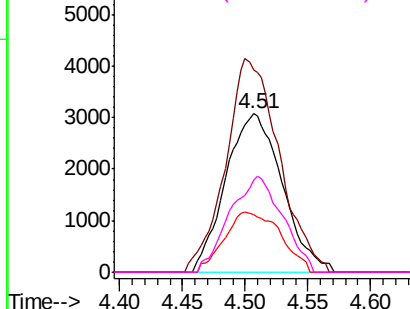
#20
Methvlene Chloride
Concen: 4.873 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

Instrument :
MSVOA_N
ClientSampleId :
20200439-3001B

Tot Ion:	84	Resp:	9628
Ion	Ratio	Lower	Upper
84	100		
49	127.7	109.4	164.0
51	36.2	33.6	50.4
86	58.1	51.4	77.2

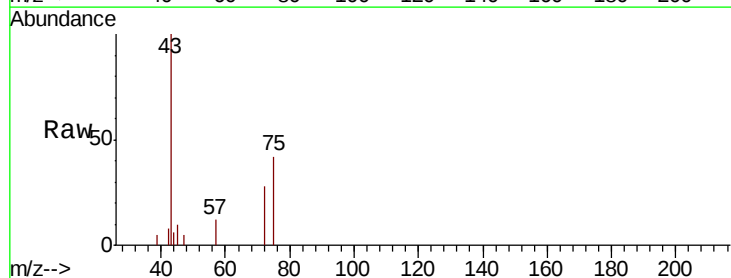


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

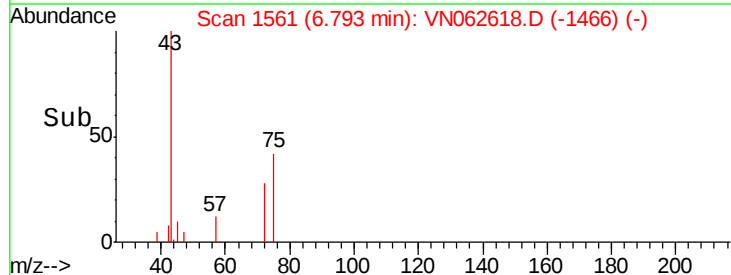
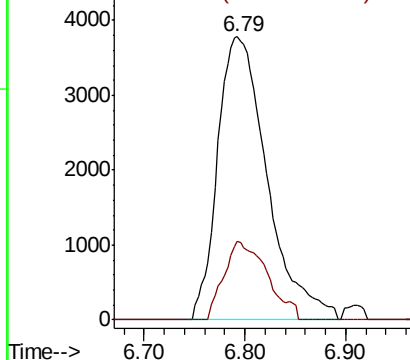


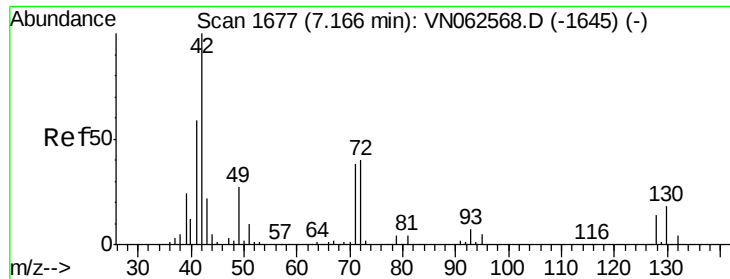
#25
2-Butanone
Concen: 10.292 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

Tgt Ion:	43	Resp:	12912
Ion	Ratio	Lower	Upper
43	100		
72	27.6	19.0	28.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.575 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

20200439-3001B

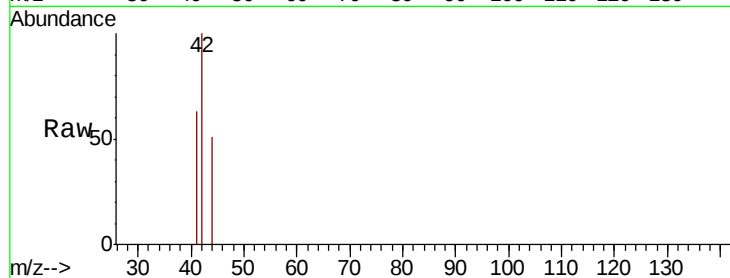
Tot Ion: 42 Resp: 488

Ion Ratio Lower Upper

42 100

72 6.1 30.7 46.1#

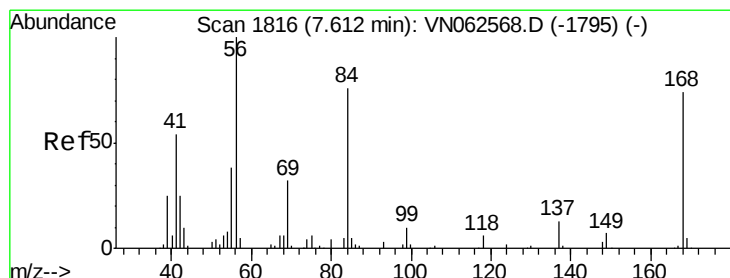
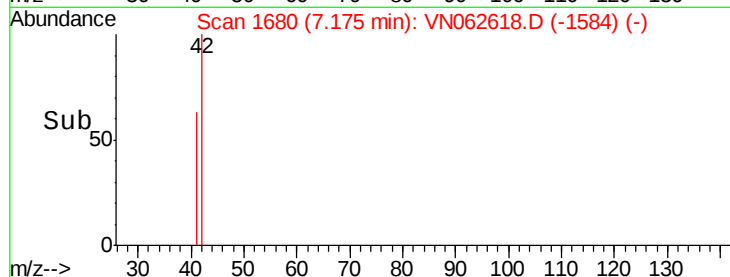
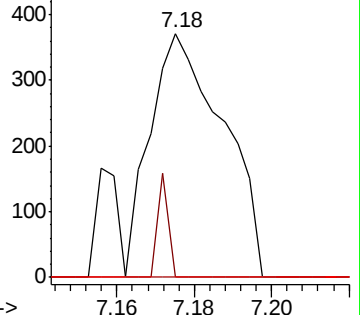
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.052 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

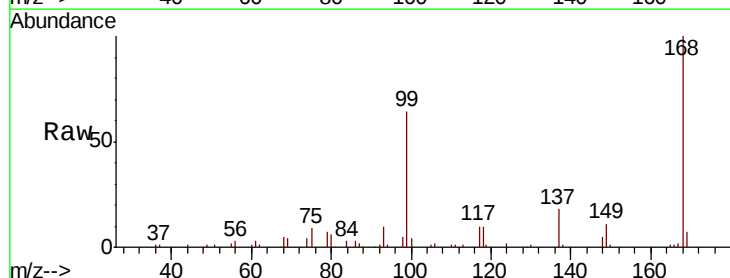
Tgt Ion: 56 Resp: 3394

Ion Ratio Lower Upper

56 100

69 155.5 25.3 37.9#

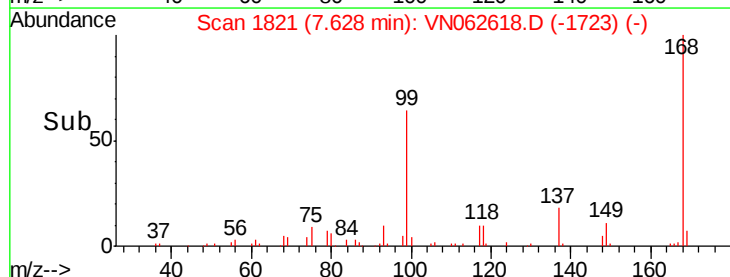
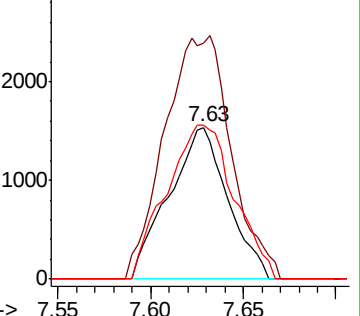
84 101.9 61.0 91.4#

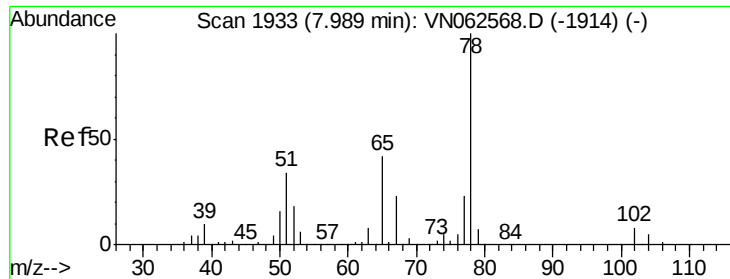


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.721 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

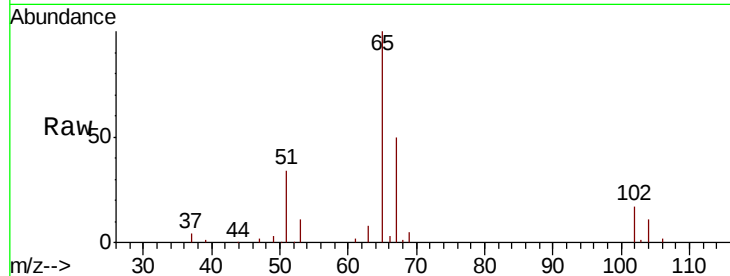
20200439-3001B

Tot Ion: 65 Resp: 119792

Ion Ratio Lower Upper

65 100

67 50.4 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062618.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN062618.D (-1914) (-)

7.99

60000

50000

40000

30000

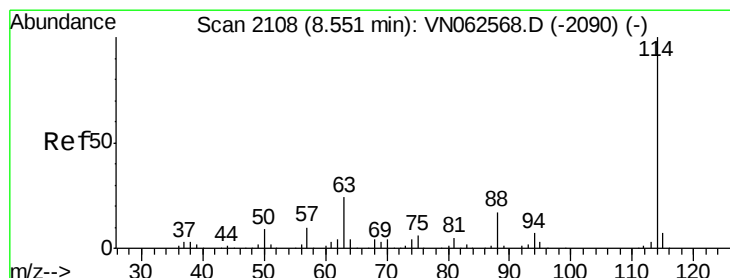
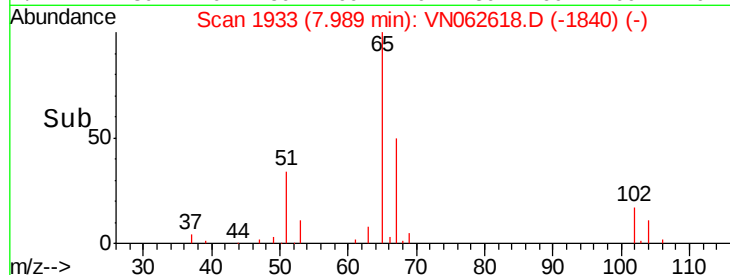
20000

10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

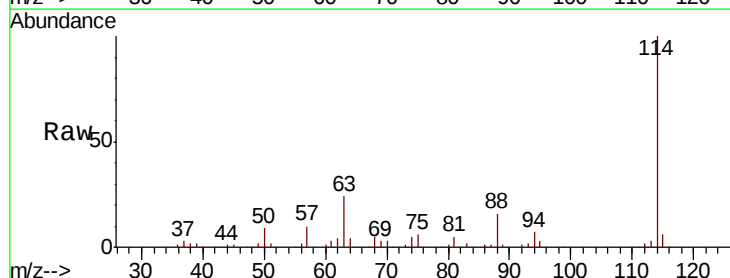
Tgt Ion: 114 Resp: 255798

Ion Ratio Lower Upper

114 100

63 24.0 0.0 48.4

88 16.4 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): VN062618.D (-2090) (-)

Ion 63.00 (62.70 to 63.70): VN062618.D (-2090) (-)

Ion 87.90 (87.60 to 88.60): VN062618.D (-2090) (-)

8.55

150000

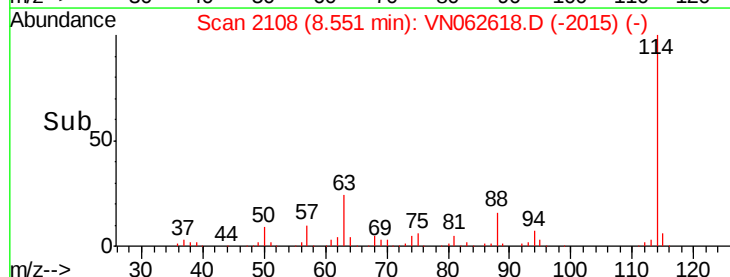
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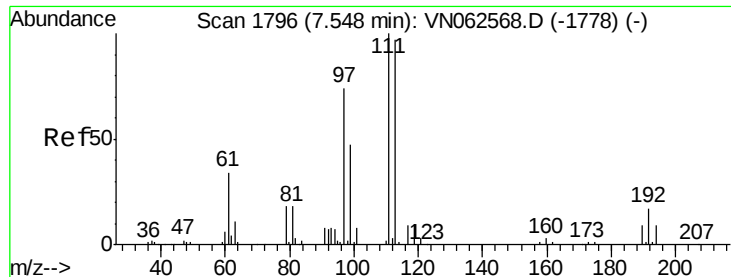
50000

0

Time-->

8.45 8.50 8.55 8.60 8.65

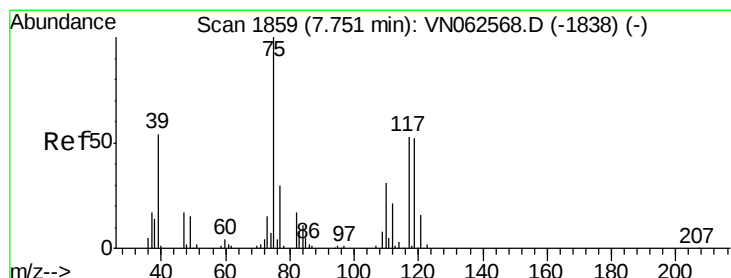
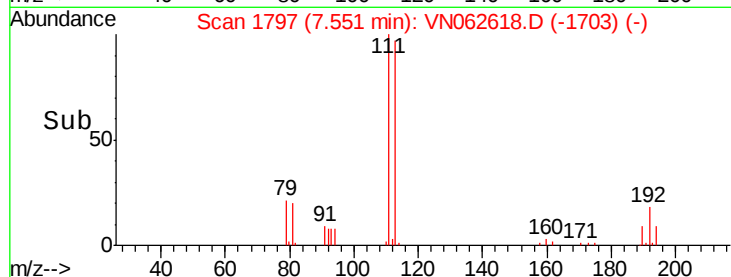
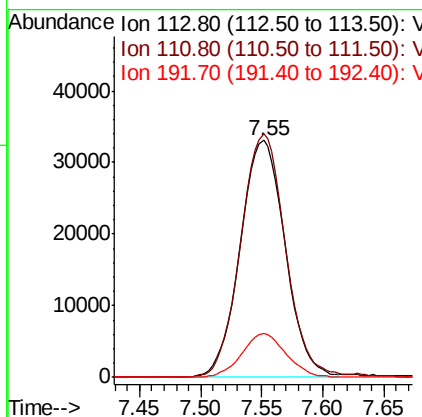
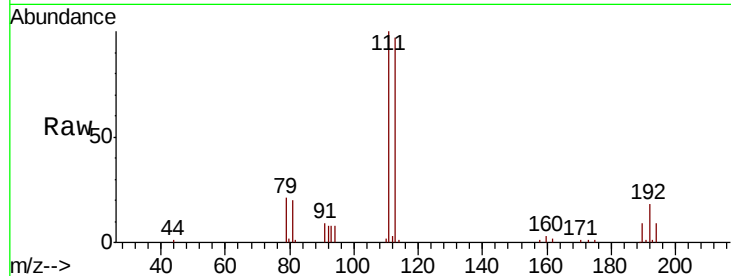




#35
 Dibromofluoromethane
 Concen: 50.246 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

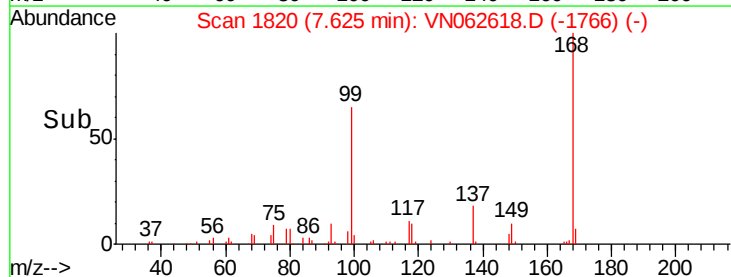
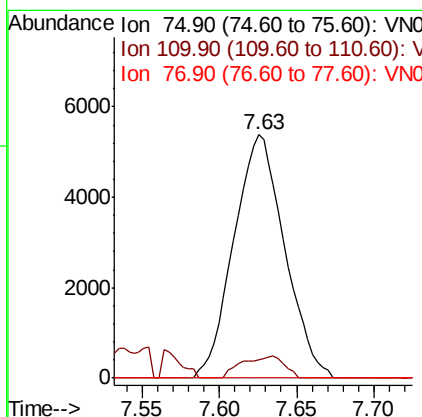
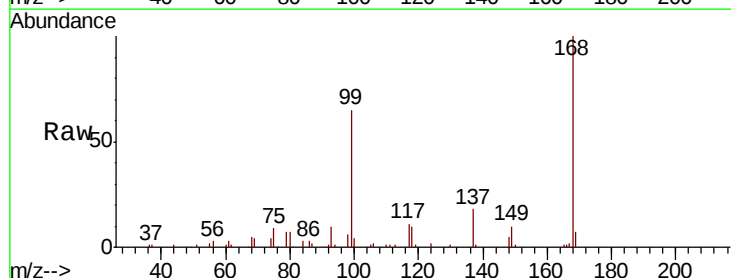
Instrument :
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 20200439-3001B

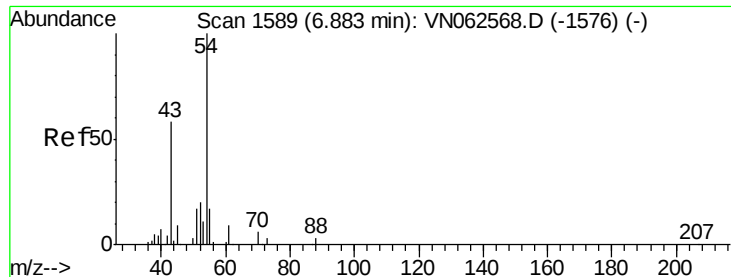
Tot Ion:113 Resp: 84425
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.7 124.1
 192 18.3 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.506 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Tgt Ion: 75 Resp: 12287
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.0 48.0#
 77 0.0 24.6 36.8#

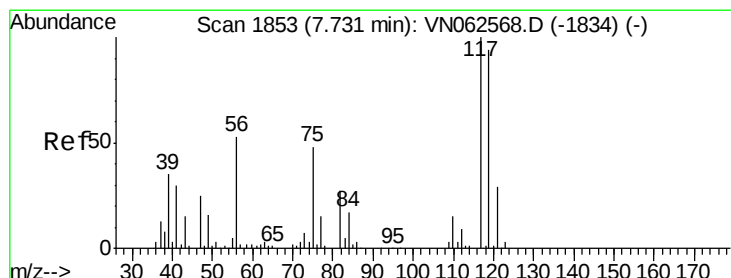
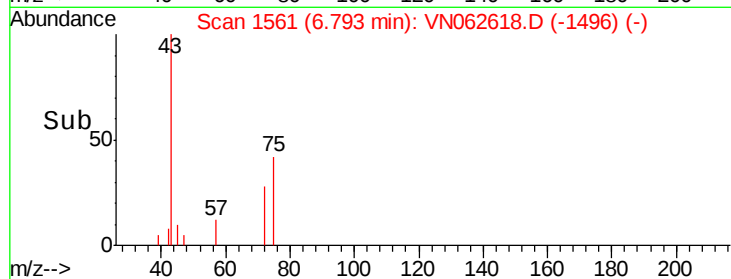
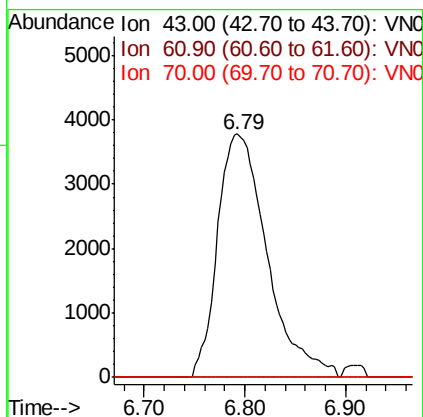
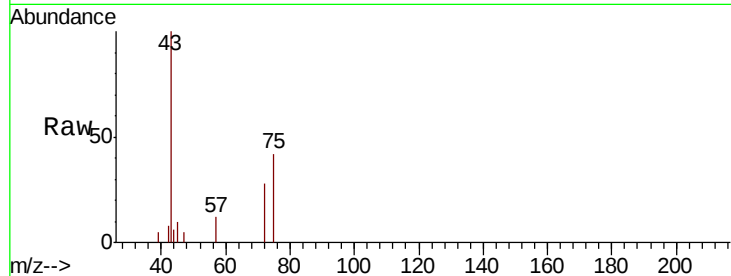




#37
Ethyl Acetate
Concen: 4.393 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.09 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

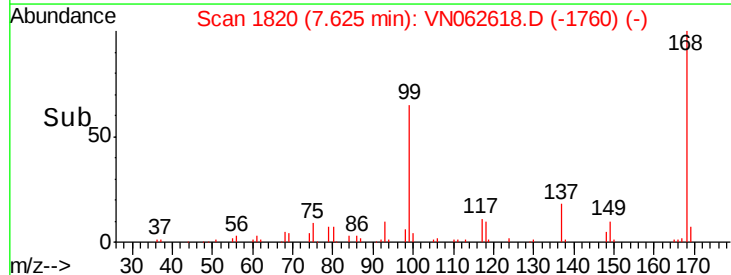
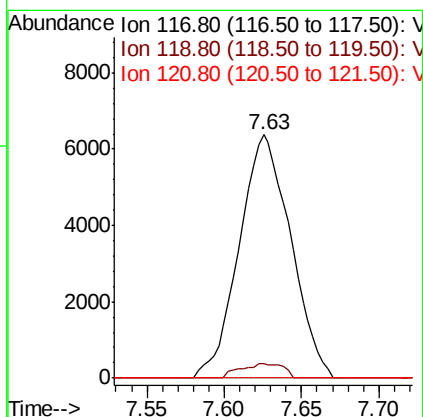
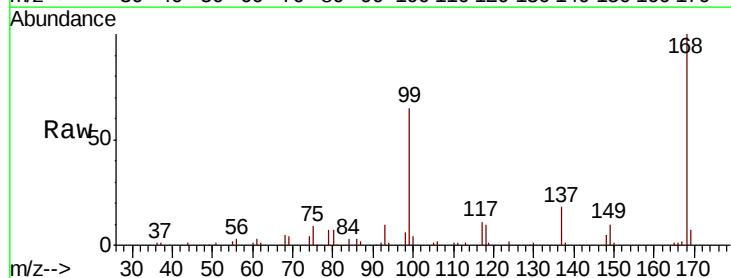
Instrument :
MSVOA_N
ClientSampleId :
20200439-3001B

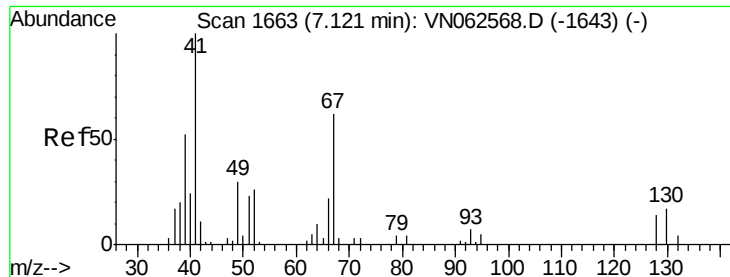
Tot Ion: 43 Resp: 12912
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 5.626 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

Tgt Ion: 117 Resp: 14744
Ion Ratio Lower Upper
117 100
119 6.2 74.8 112.2#
121 0.0 23.0 34.6#

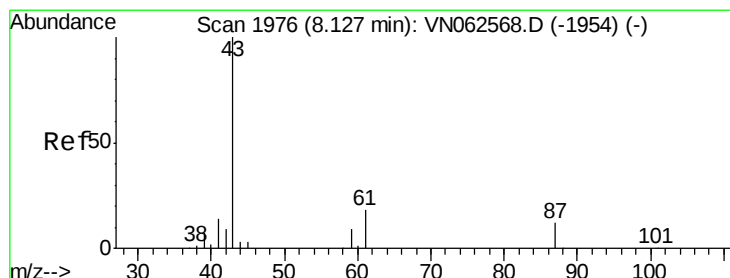
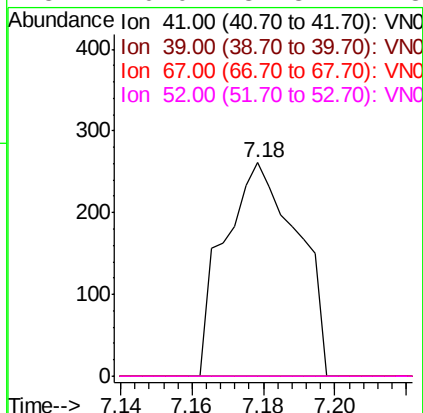
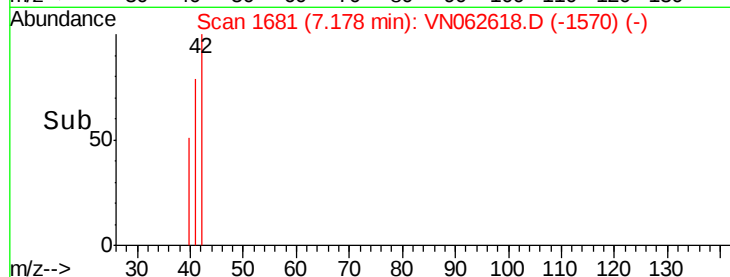
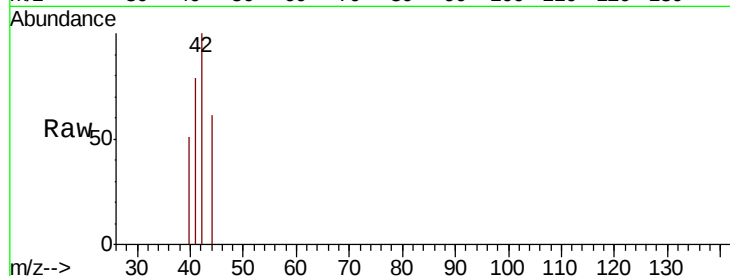




#41
Methacrylonitrile
Concen: 0.295 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.06 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

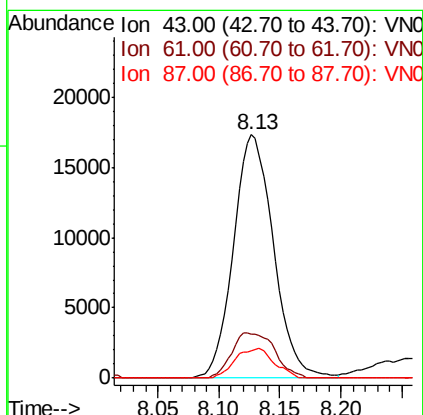
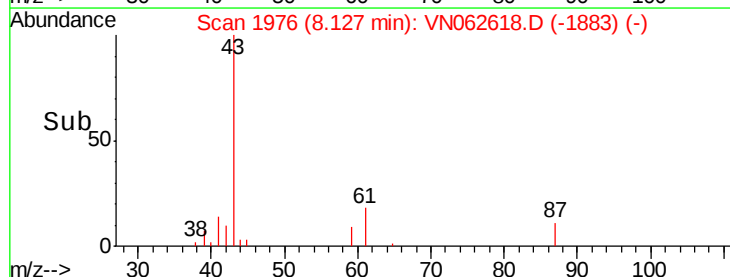
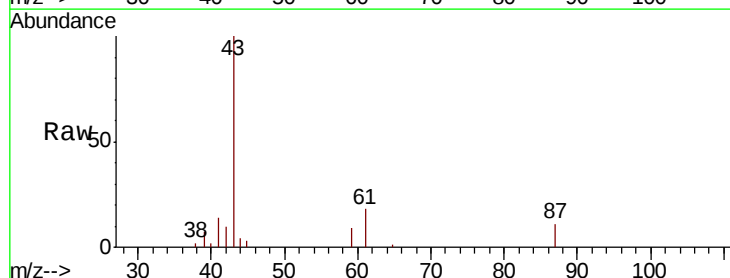
Instrument :
MSVOA_N
ClientSampleId :
20200439-3001B

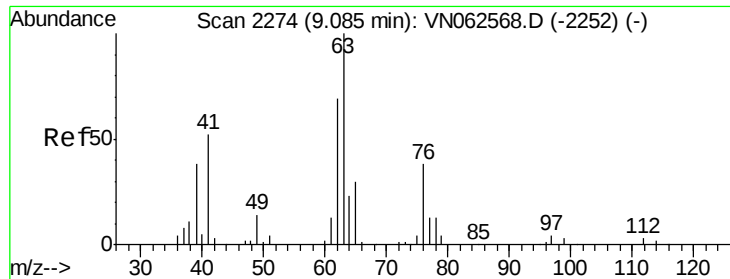
Tot Ion:	41	Resp:	372
Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.8	83.6#
67	0.0	72.5	108.7#
52	0.0	31.8	47.8#



#43
Isopropyl Acetate
Concen: 8.318 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

Tgt Ion:	43	Resp:	39410
Ion	Ratio	Lower	Upper
43	100		
61	19.8	20.8	31.2#
87	11.8	9.2	13.8

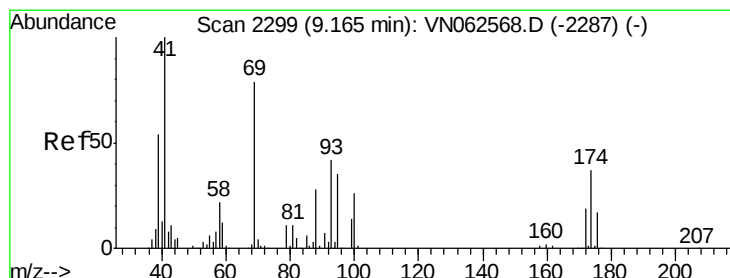
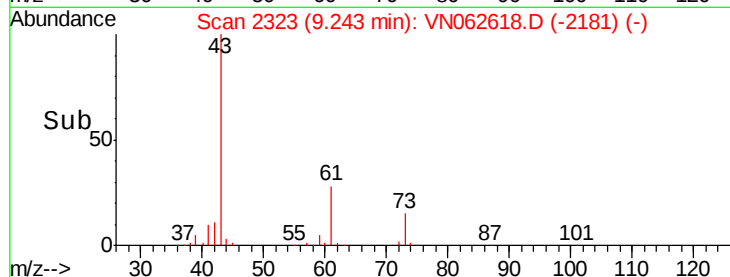
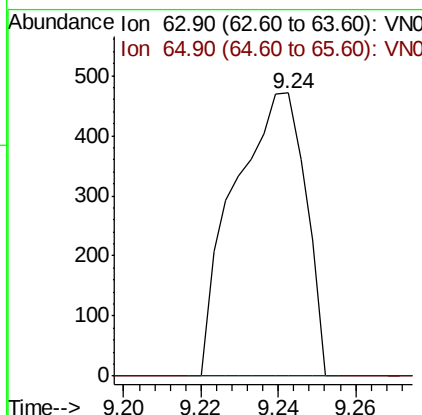
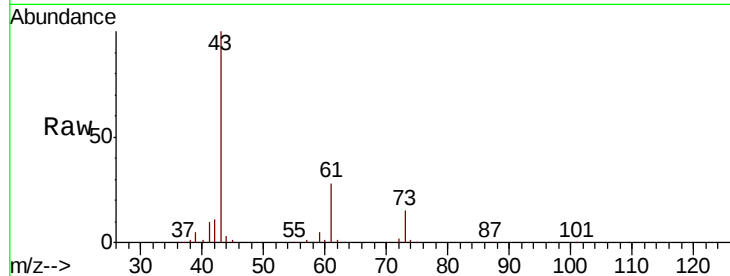




#45
 1,2-Dichloropropane
 Concen: 0.260 ug/l
 RT: 9.24 min Scan# 2323
 Delta R.T. 0.16 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

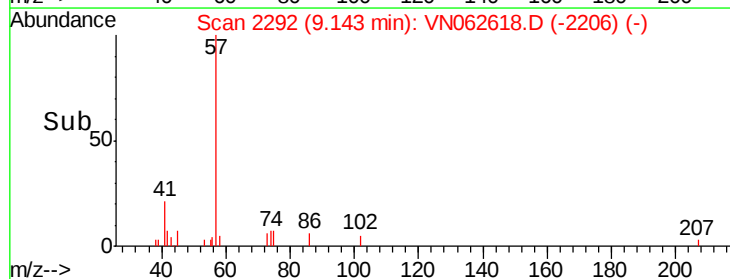
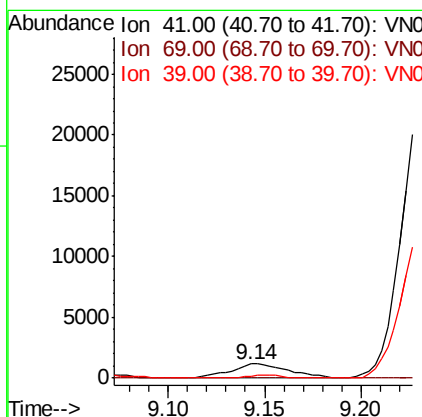
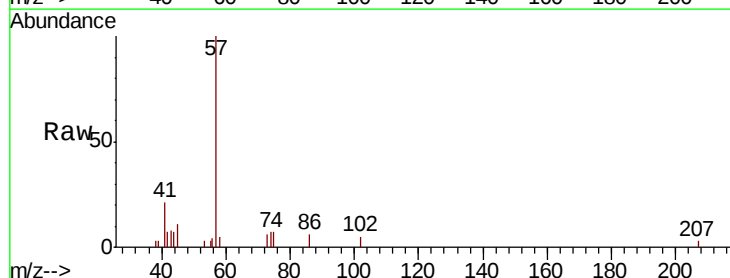
Instrument :
 MSVOA_N
 ClientSampleId :
 20200439-3001B

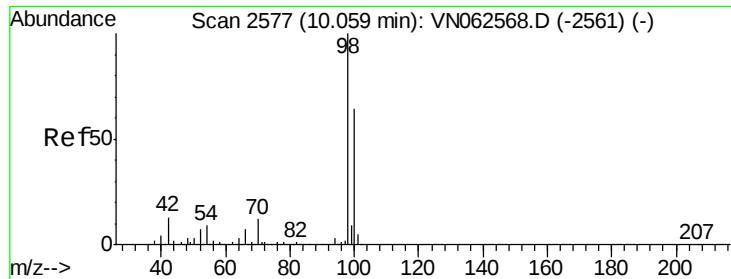
Tot Ion: 63 Resp: 603
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.058 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Tgt Ion: 41 Resp: 2384
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#





#50

Toluene-d8

Concen: 49.757 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

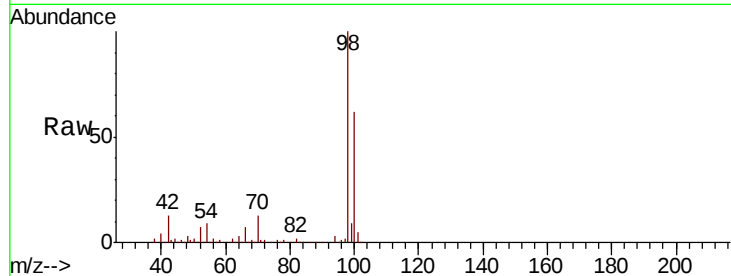
20200439-3001B

Tot Ion: 98 Resp: 333568

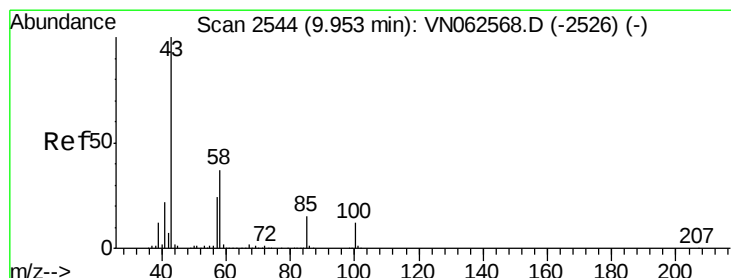
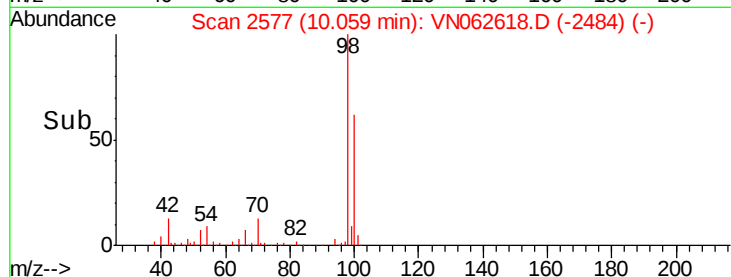
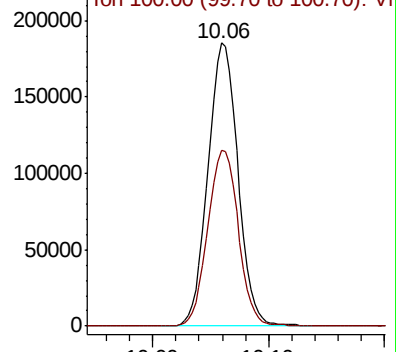
Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062618.D (-2484) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.679 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062618.D

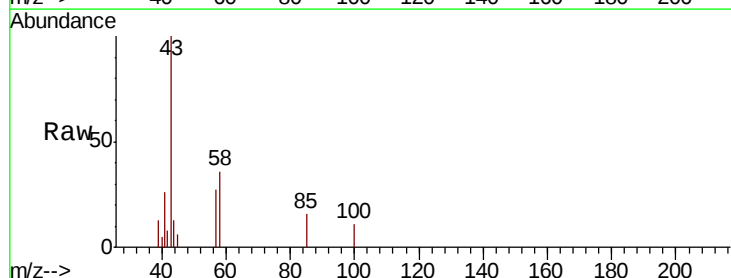
Acq: 27 Jul 2020 23:02

Tgt Ion: 43 Resp: 4761

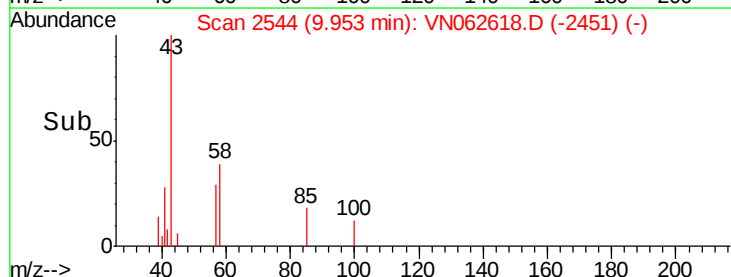
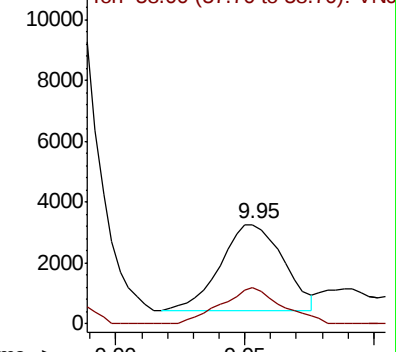
Ion Ratio Lower Upper

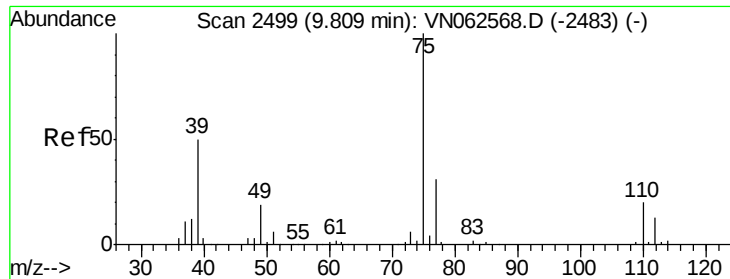
43 100

58 41.1 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062618.D (-2451) (-)



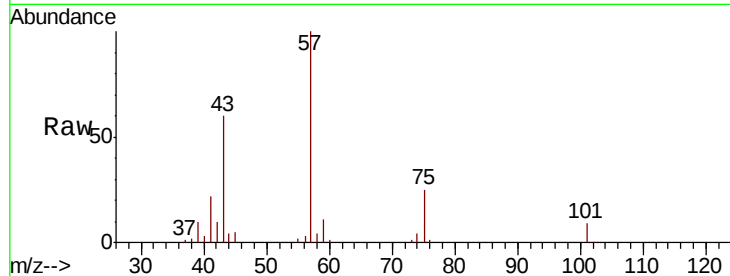


#54

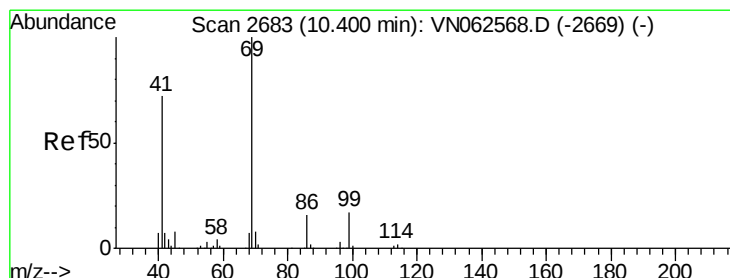
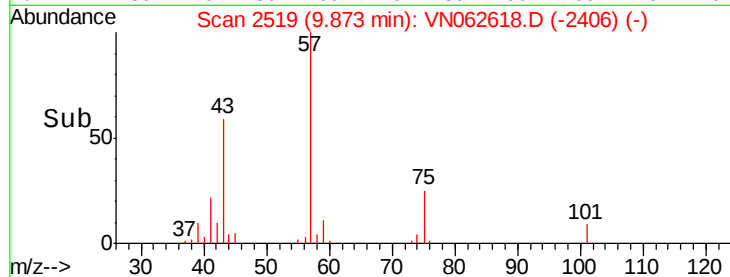
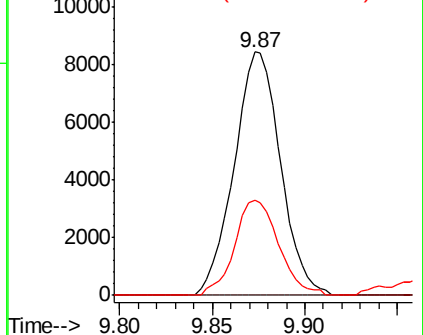
cis-1,3-Dichloropropene
 Concen: 4.236 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Instrument :
 MSVOA_N
 ClientSampleId :
 20200439-3001B

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	39.1	39.8	59.8#



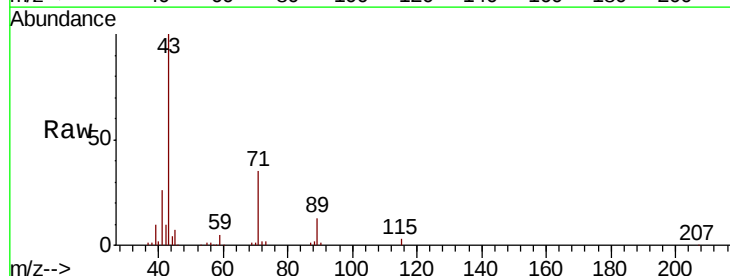
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



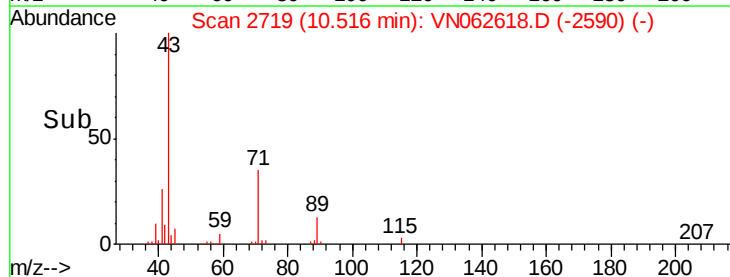
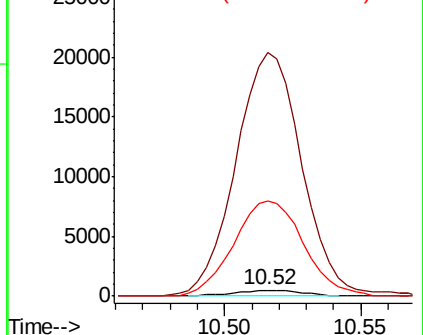
#56

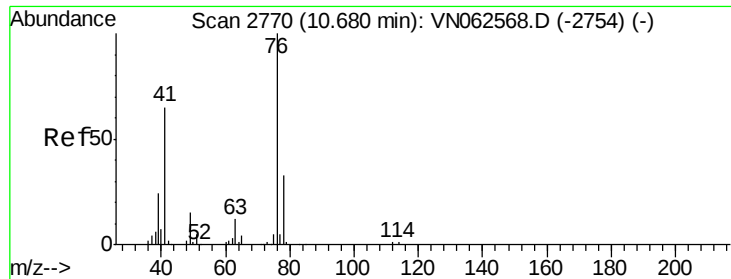
Ethyl methacrylate
 Concen: 2.010 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4132.6	57.2	85.8#
39	1687.1	28.6	43.0#



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

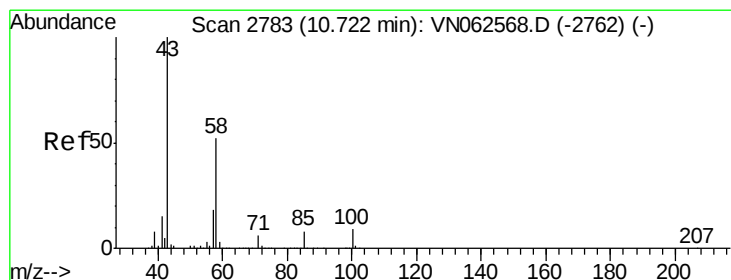
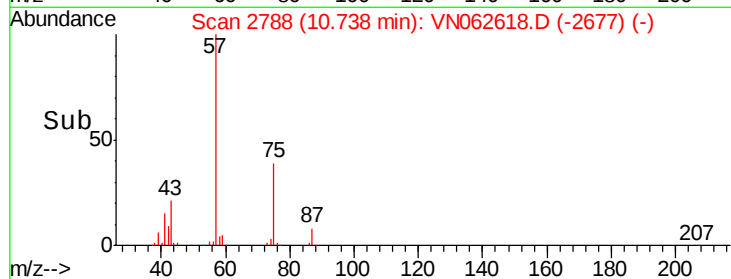
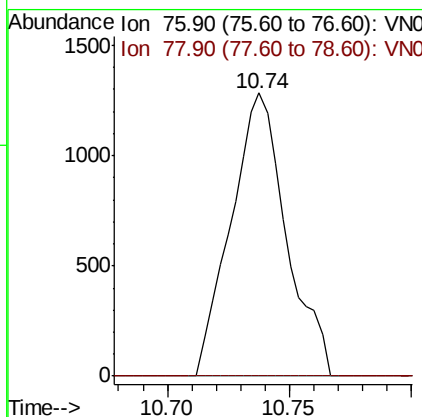
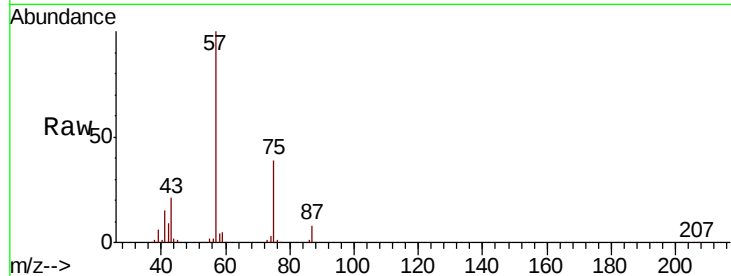




#57
 1,3-Dichloropropane
 Concen: 0.593 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

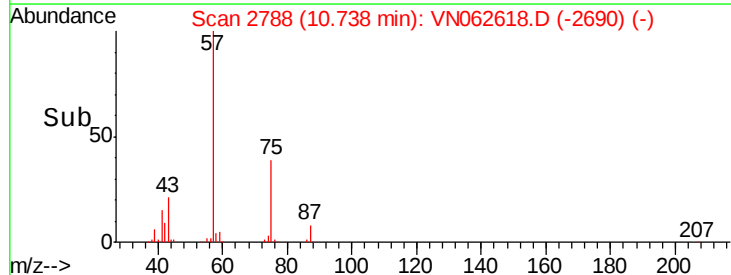
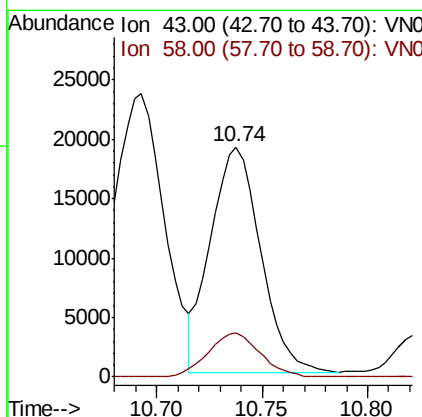
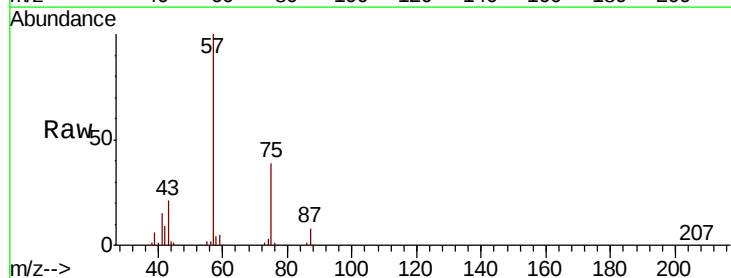
Instrument :
 MSVOA_N
 ClientSampleId :
 20200439-3001B

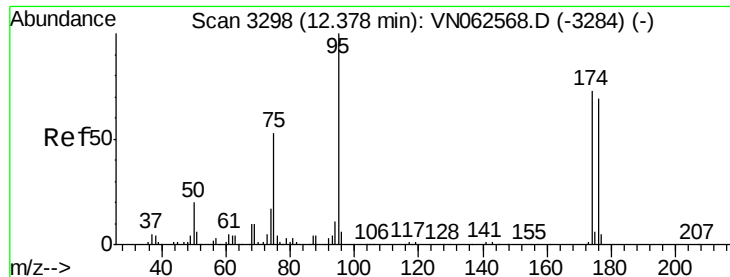
Tot Ion: 76 Resp: 2021
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 17.021 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062618.D
 Acq: 27 Jul 2020 23:02

Tgt Ion: 43 Resp: 31199
 Ion Ratio Lower Upper
 43 100
 58 20.3 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 52.537 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

20200439-3001B

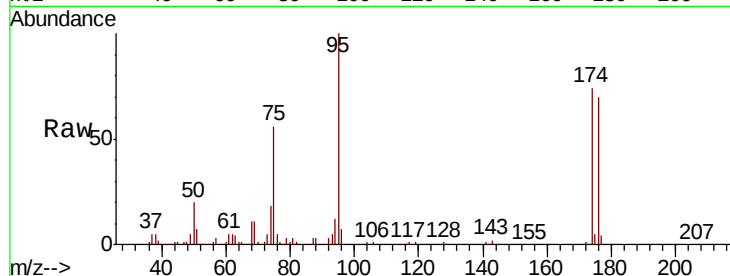
Tot Ion: 95 Resp: 128782

Ion Ratio Lower Upper

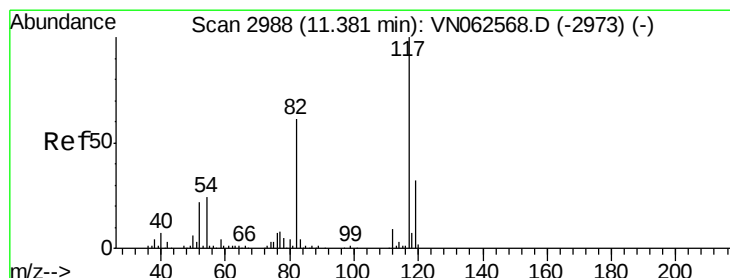
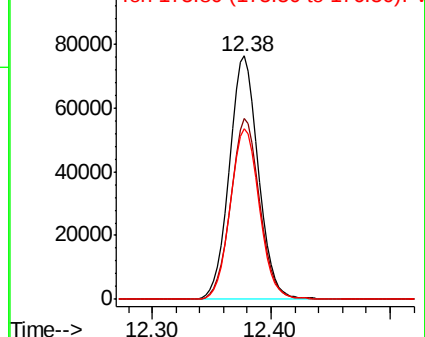
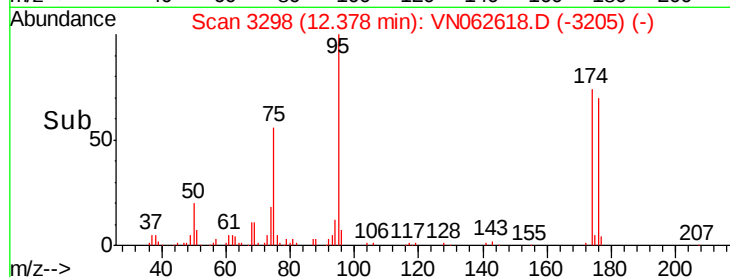
95 100

174 74.4 0.0 144.6

176 70.6 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062618.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

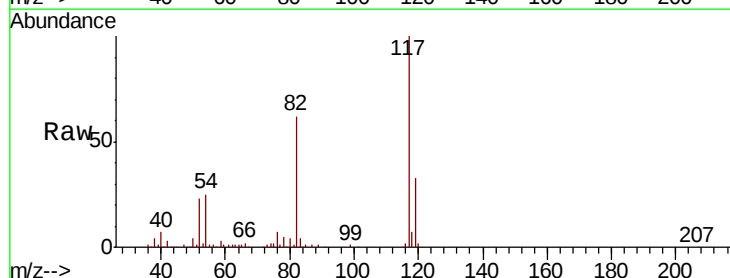
Tgt Ion: 117 Resp: 257606

Ion Ratio Lower Upper

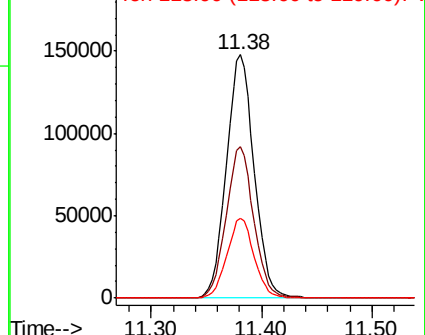
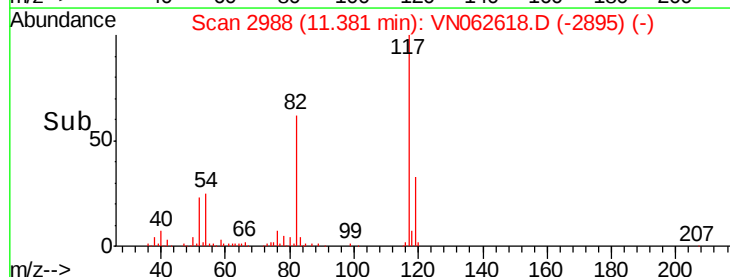
117 100

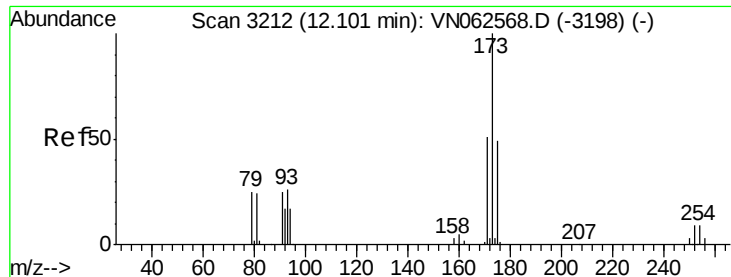
82 62.1 49.0 73.6

119 33.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN062618.D (-2895) (-)





#71

Bromoform

Concen: 0.314 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

20200439-3001B

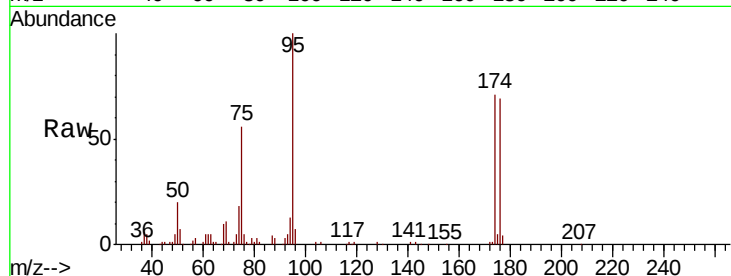
Tot Ion:173 Resp: 479

Ion Ratio Lower Upper

173 100

175 1194.6 24.1 72.2#

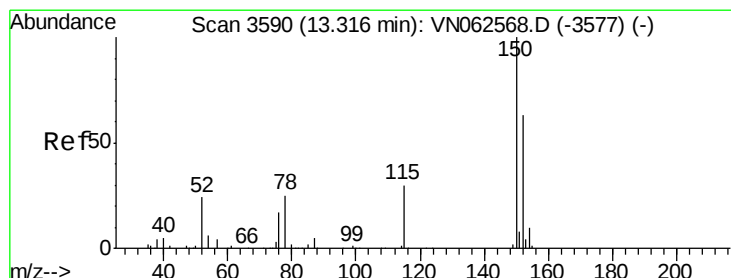
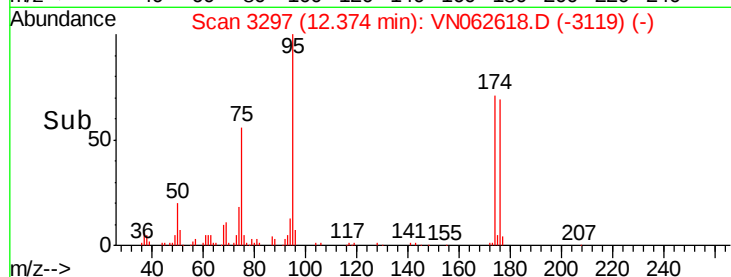
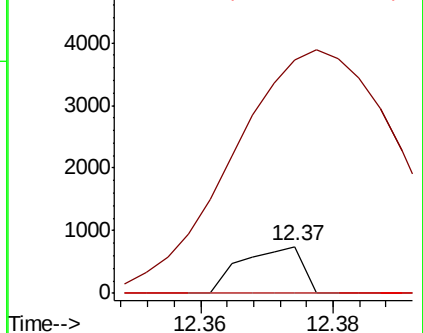
254 0.0 0.0 0.0



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: VN062618.D

Acq: 27 Jul 2020 23:02

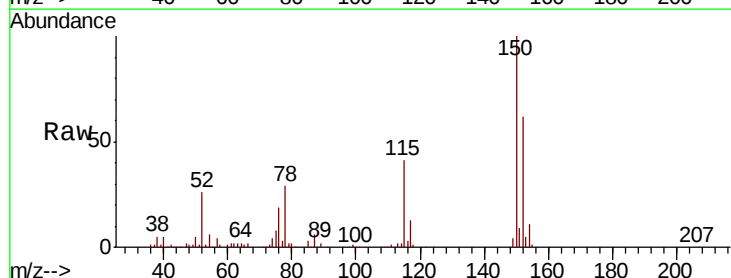
Tgt Ion:152 Resp: 110024

Ion Ratio Lower Upper

152 100

115 62.8 31.8 95.4

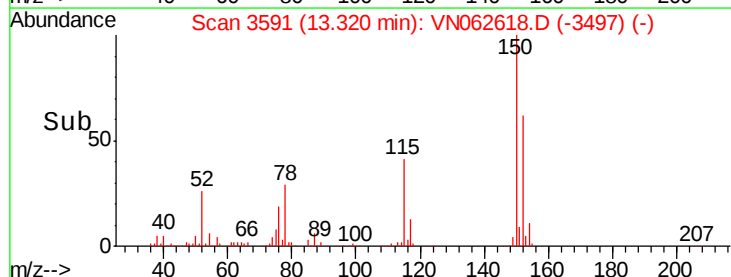
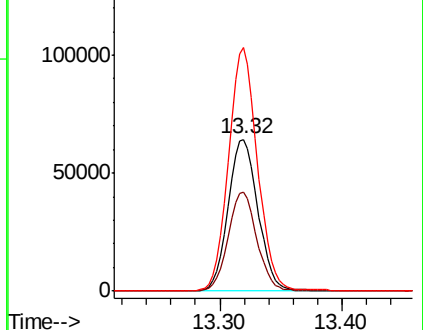
150 156.0 0.0 351.4

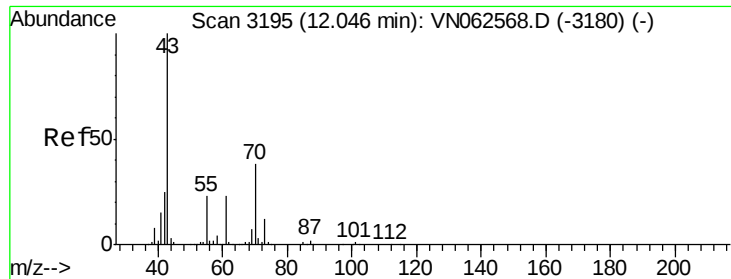


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

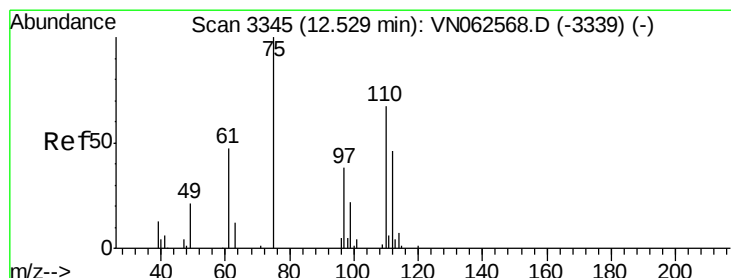
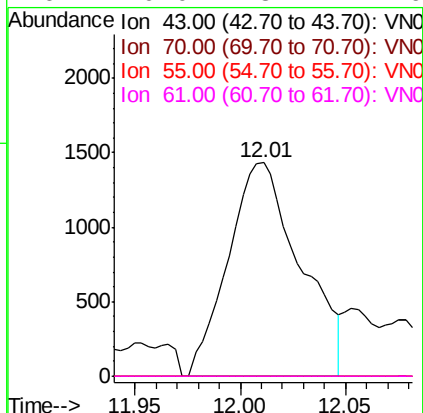
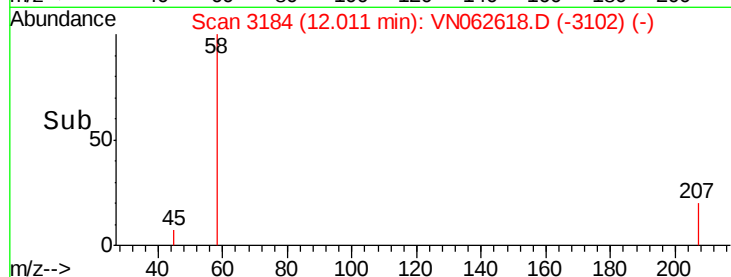
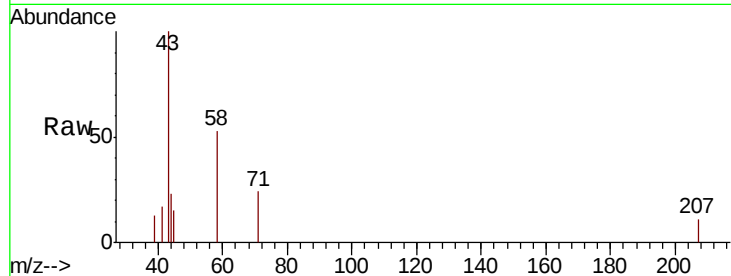




#74
N-amvl acetate
Concen: 0.882 ug/l
RT: 12.01 min Scan# 3184
Delta R.T. -0.04 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

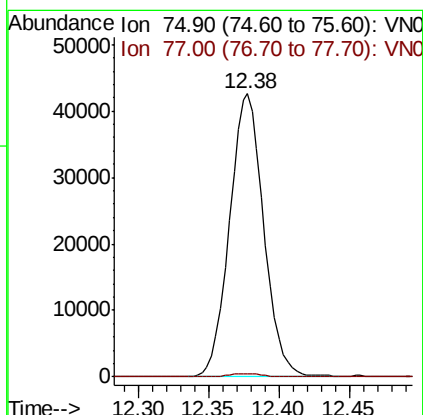
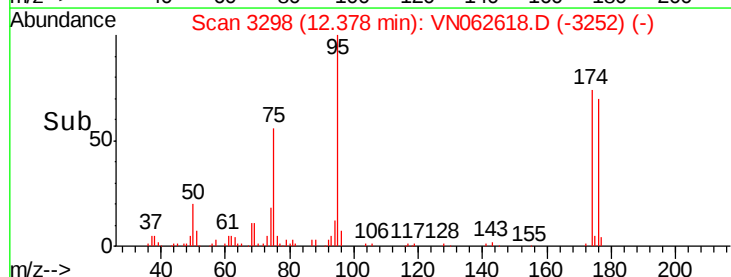
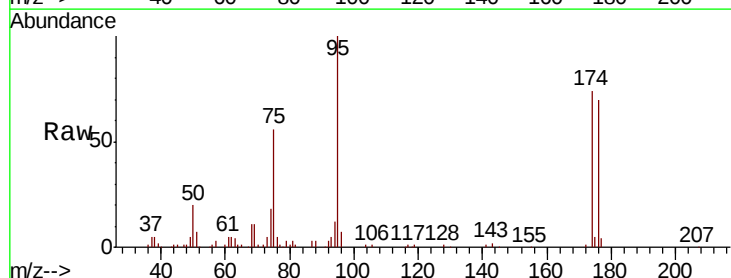
Instrument :
MSVOA_N
ClientSampleId :
20200439-3001B

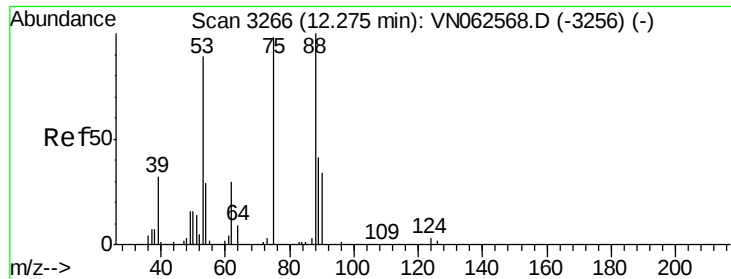
Tot Ion: 43 Resp: 3426
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 19.0 28.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 25.725 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062618.D
Acq: 27 Jul 2020 23:02

Tgt Ion: 75 Resp: 72042
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 71.611 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062618.D

Acq: 27 Jul 2020 23:02

Instrument :

MSVOA_N

ClientSampleId :

20200439-3001B

Tot Ion: 75 Resp: 72042

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 34.5 51.7#

