

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062141.D
 Acq On : 26 Jun 2020 15:49
 Operator : JC/MD
 Sample : L3088-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20200622

Quant Time: Jun 27 03:42:47 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

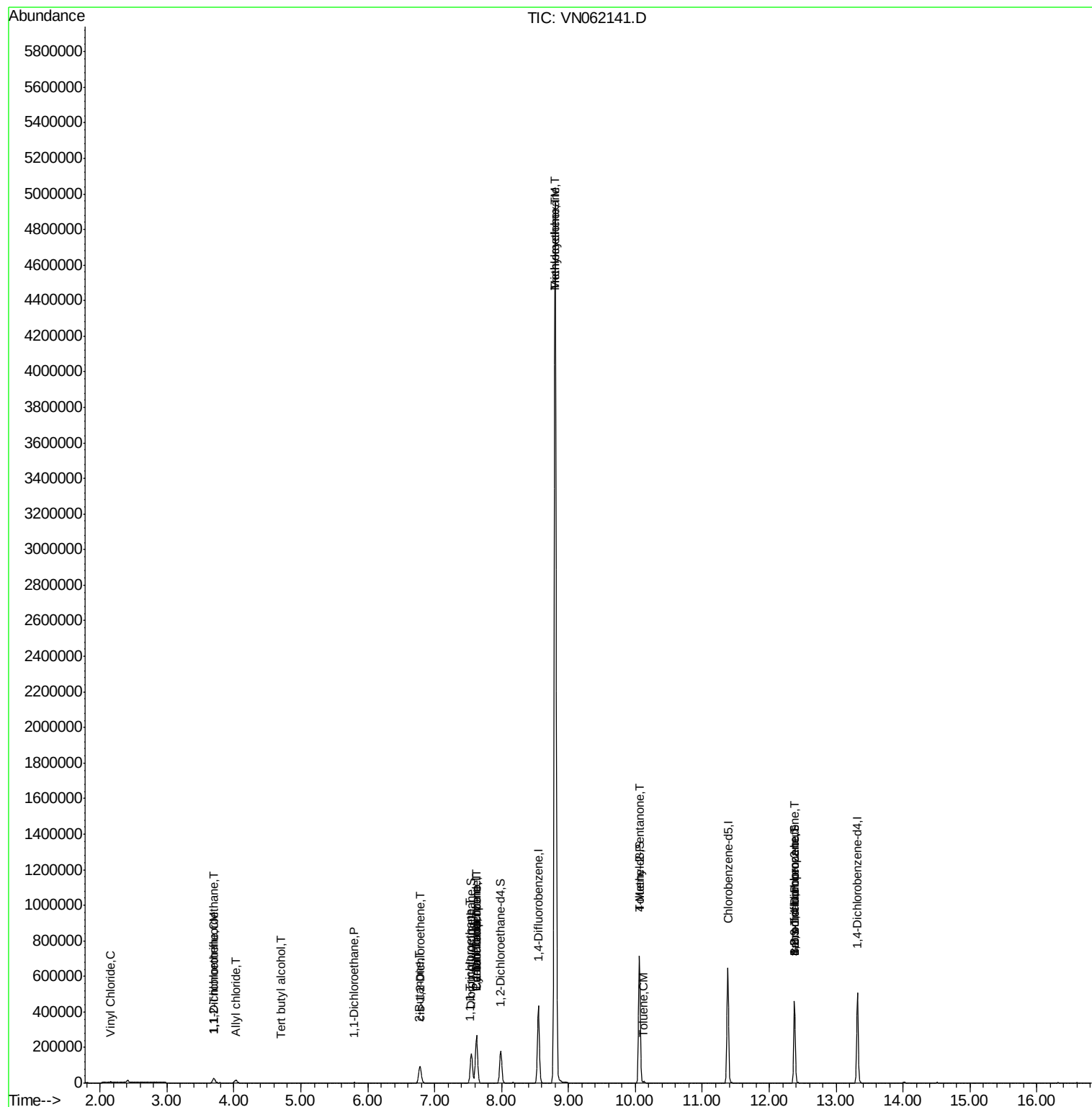
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	217268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	399768	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	382696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	137521	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	151350	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
35) Dibromofluoromethane	7.55	113	126418	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
50) Toluene-d8	10.06	98	503171	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	
62) 4-Bromofluorobenzene	12.38	95	160880	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	1066	Below Cal		91
4) Vinyl Chloride	2.16	62	3050	0.789 ug/l		95
9) 1,1,2-Trichlorotrifluoroet	3.71	101	4387	1.758 ug/l		93
11) Tert butyl alcohol	4.71	59	96	0.219 ug/l #		72
12) 1,1-Dichloroethene	3.70	96	13246	5.310 ug/l		96
14) Allyl chloride	4.01	41	2712	0.798 ug/l #		27
16) Acetone	3.79	43	3443	Below Cal		98
20) Methylene Chloride	4.50	84	500	Below Cal #		53
24) 1,1-Dichloroethane	5.80	63	4910	0.986 ug/l #		82
25) 2-Butanone	6.77	43	398	0.267 ug/l #		56
27) cis-1,2-Dichloroethene	6.78	96	64010	20.015 ug/l		88
31) Cyclohexane	7.63	56	5073	1.204 ug/l #		17
32) 1,1,1-Trichloroethane	7.52	97	1262	0.295 ug/l #		41
36) 1,1-Dichloropropene	7.62	75	17396	4.329 ug/l #		48
38) Carbon Tetrachloride	7.63	117	21397	5.648 ug/l #		15
39) Methylcyclohexane	8.80	83	21449	4.872 ug/l #		1
44) Trichloroethene	8.80	130	1808322	585.317 ug/l		98
51) 4-Methyl-2-Pentanone	10.06	43	2005	0.633 ug/l #		1
52) Toluene	10.13	92	2303	0.308 ug/l		96
71) Bromoform	12.37	173	681	0.330 ug/l #		1
76) 1,2,3-Trichloropropane	12.38	75	82525	25.491 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.38	75	82525	74.445 ug/l #		13

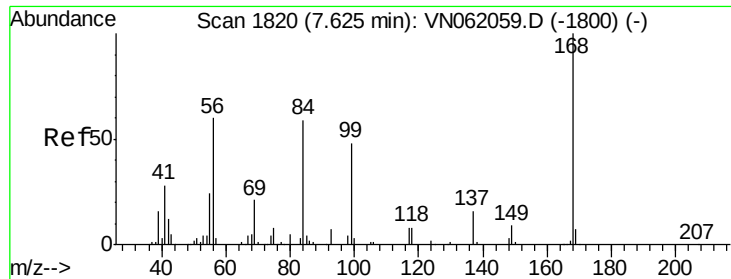
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

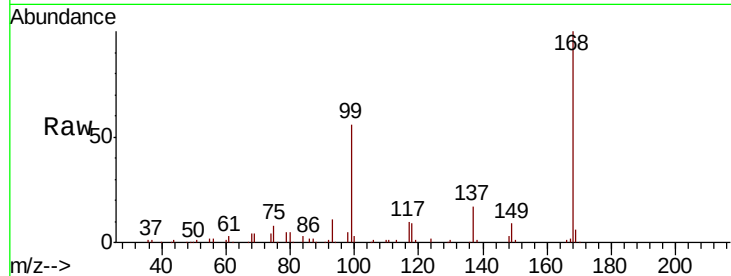
48BR-20200622

Tot Ion:168 Resp: 217268

Ion Ratio Lower Upper

168 100

99 56.4 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

100000

80000

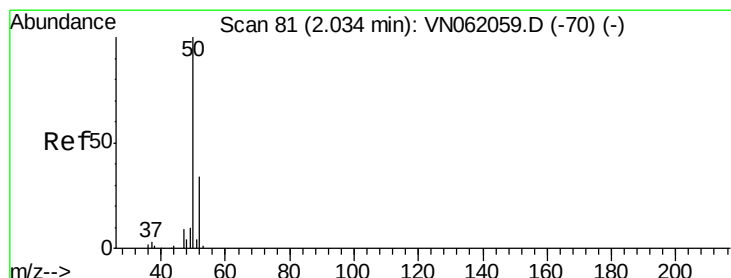
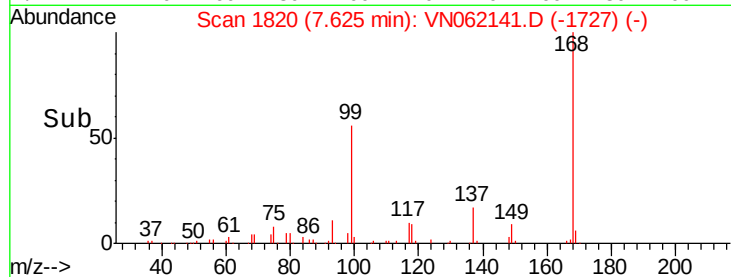
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062141.D

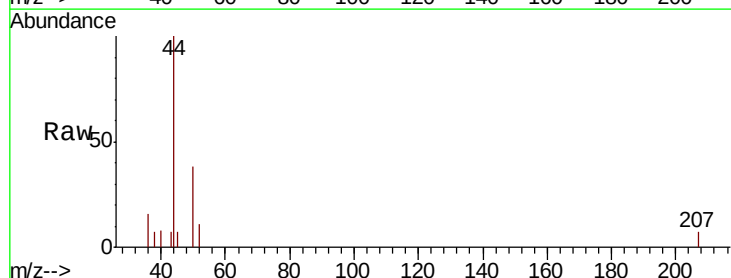
Acq: 26 Jun 2020 15:49

Tgt Ion: 50 Resp: 1066

Ion Ratio Lower Upper

50 100

52 28.7 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

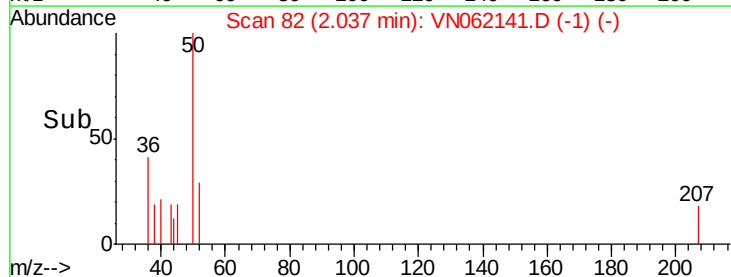
600

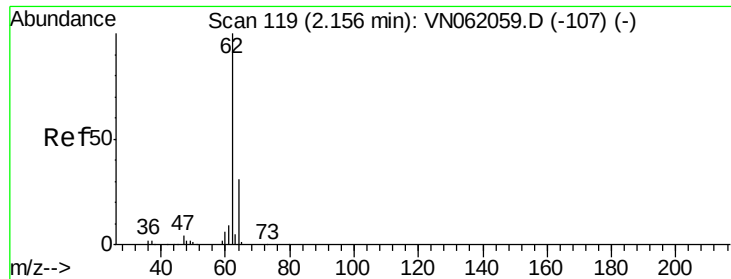
400

200

0

Time--> 2.00 2.02 2.04 2.06





#4

Vinyl Chloride

Concen: 0.789 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

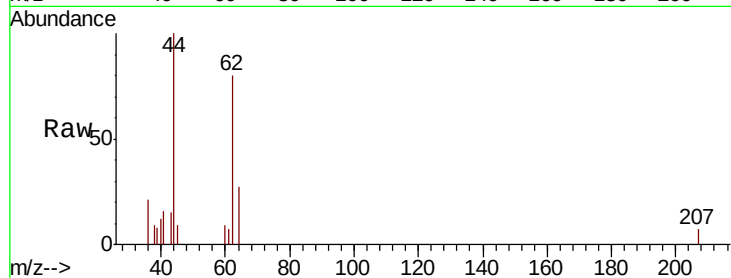
48BR-20200622

Tot Ion: 62 Resp: 3050

Ion Ratio Lower Upper

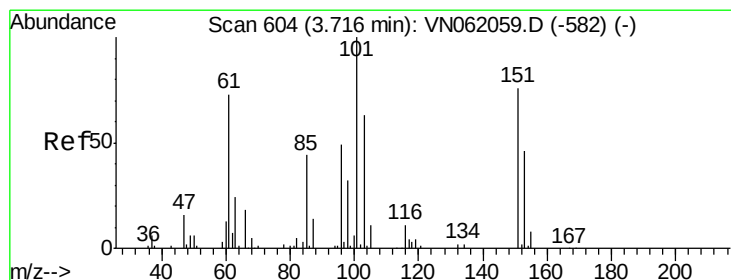
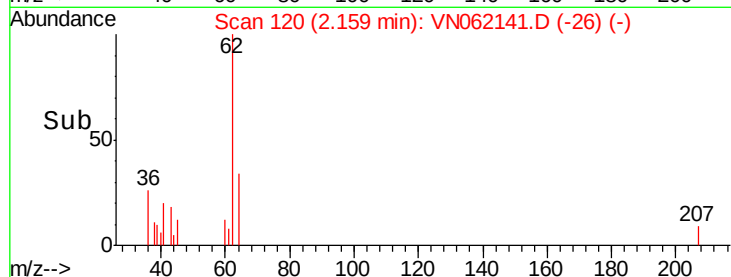
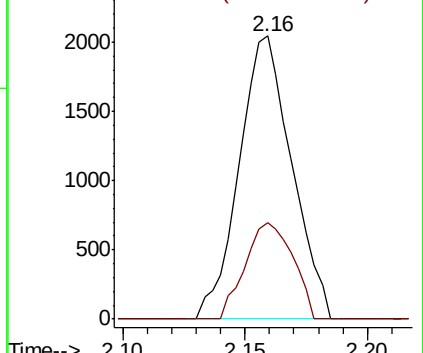
62 100

64 34.0 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN062141.D (-107) (-)

Ion 63.90 (63.60 to 64.60): VN062141.D (-107) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.758 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

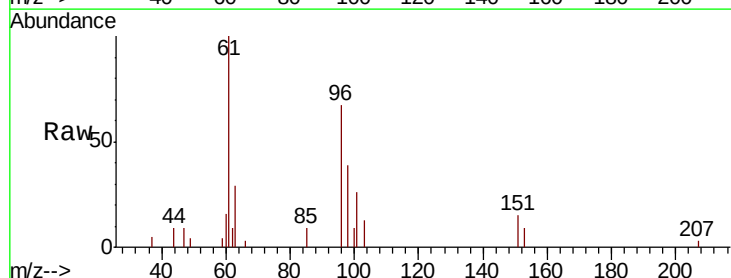
Tgt Ion: 101 Resp: 4387

Ion Ratio Lower Upper

101 100

85 40.7 34.5 51.7

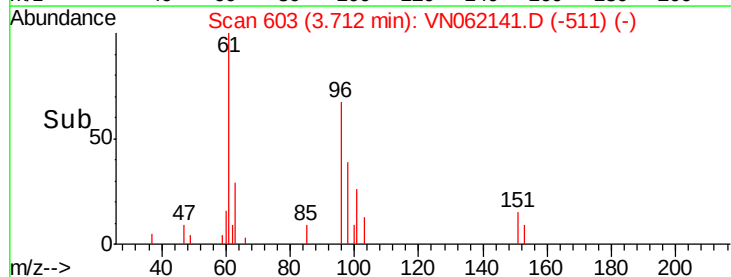
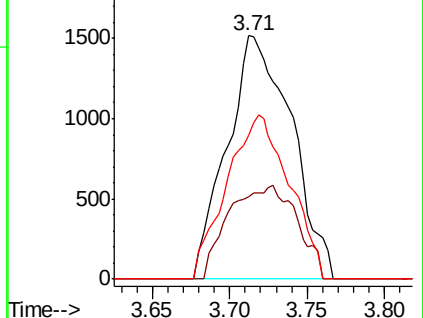
151 65.4 57.8 86.8

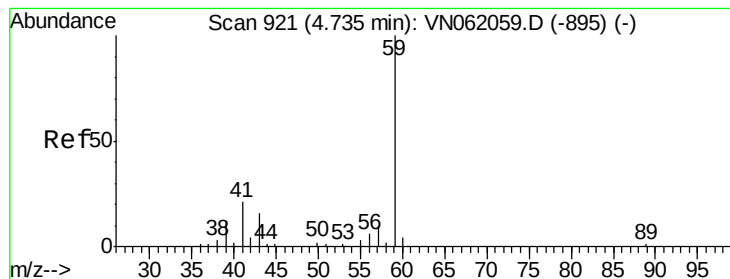


Abundance Ion 100.90 (100.60 to 101.60): VN062141.D (-582) (-)

Ion 84.90 (84.60 to 85.60): VN062141.D (-582) (-)

Ion 150.80 (150.50 to 151.50): VN062141.D (-582) (-)



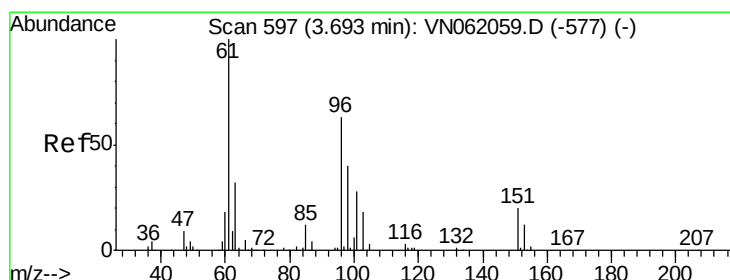
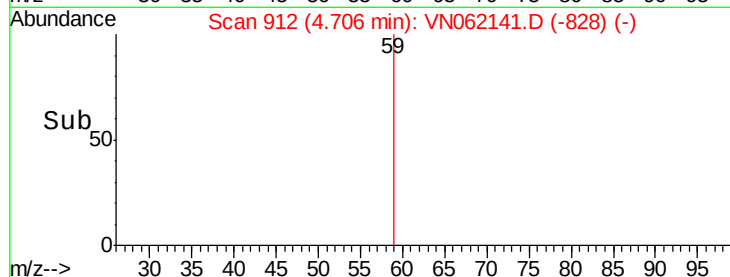
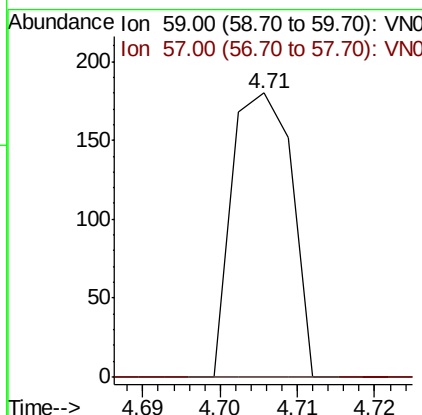
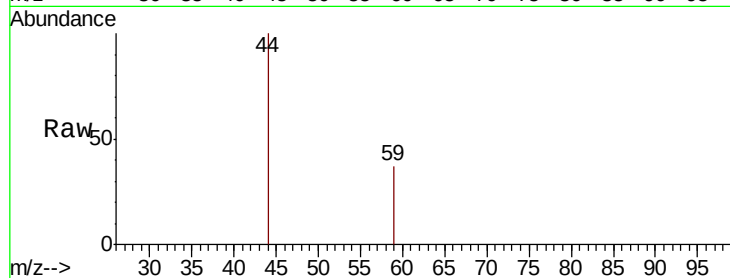


#11

Tert butyl alcohol
 Concen: 0.219 ug/l
 RT: 4.71 min Scan# 912
 Delta R.T. -0.03 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20200622

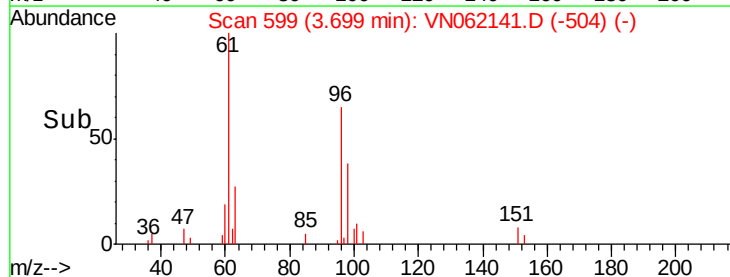
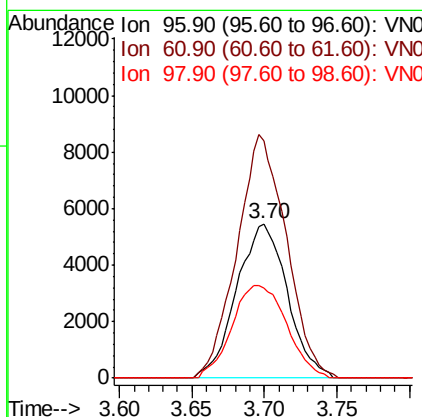
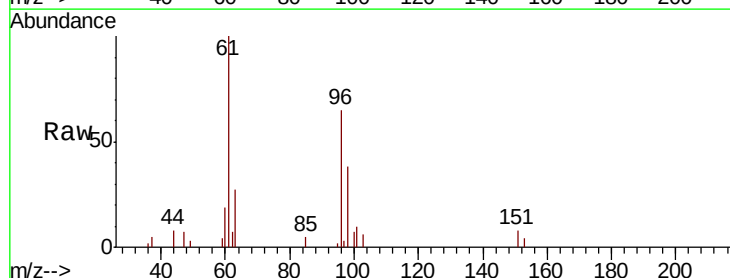
Tot Ion: 59 Resp: 96
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

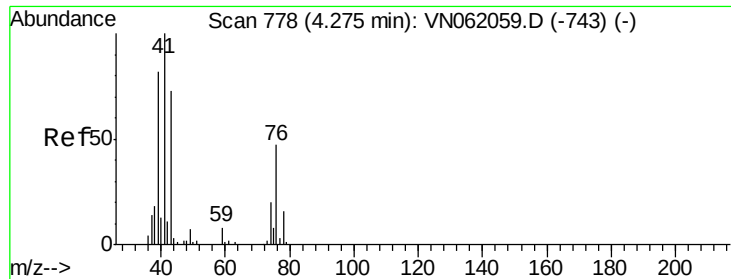


#12

1,1-Dichloroethene
 Concen: 5.310 ug/l
 RT: 3.70 min Scan# 599
 Delta R.T. 0.01 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Tgt Ion: 96 Resp: 13246
 Ion Ratio Lower Upper
 96 100
 61 154.2 126.7 190.1
 98 58.0 51.0 76.4

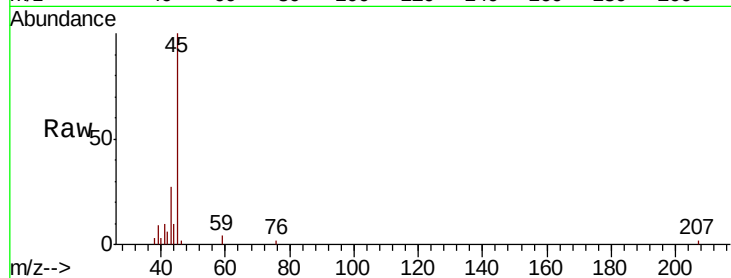




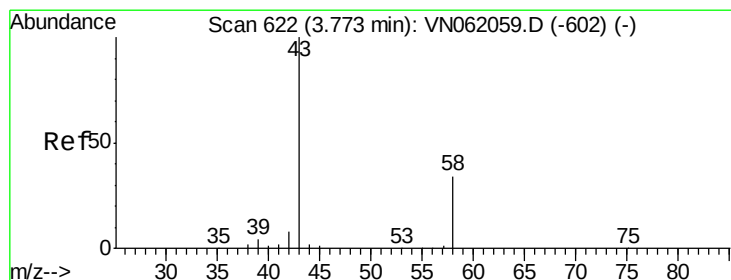
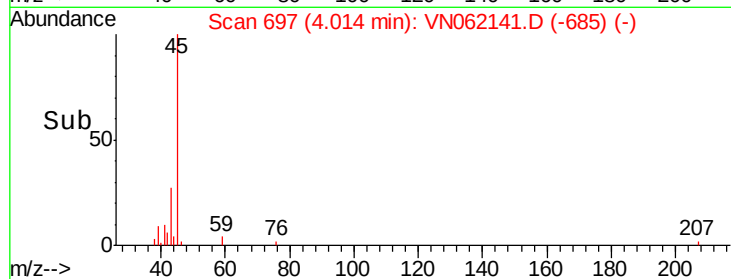
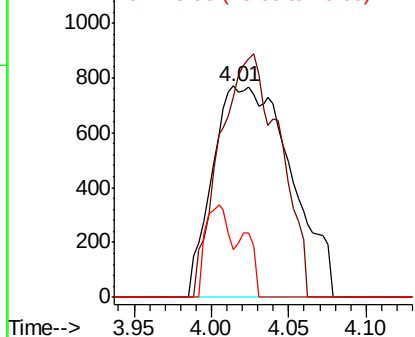
#14
Allvl chloride
Concen: 0.798 ug/l
RT: 4.01 min Scan# 697
Delta R.T. -0.26 min
Lab File: VN062141.D
Acq: 26 Jun 2020 15:49

Instrument :
MSVOA_N
ClientSampleId :
48BR-20200622

Tot Ion: 41 Resp: 2712
Ion Ratio Lower Upper
41 100
39 0.0 60.0 90.0#
76 13.7 34.1 51.1#

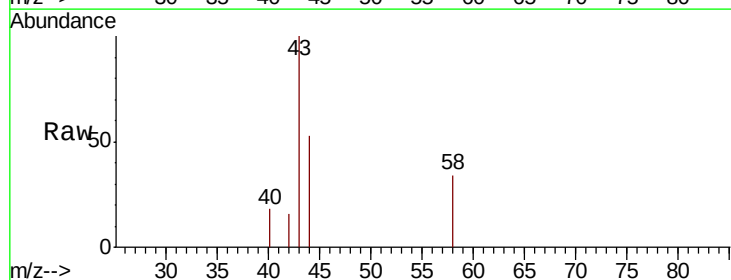


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO

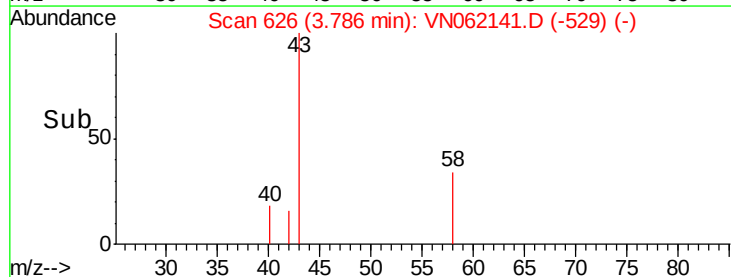
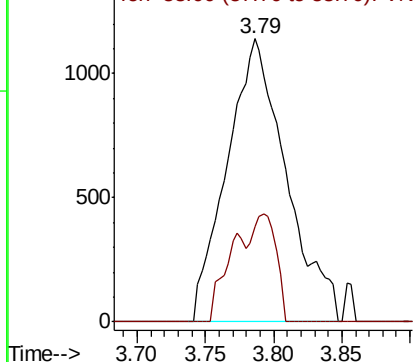


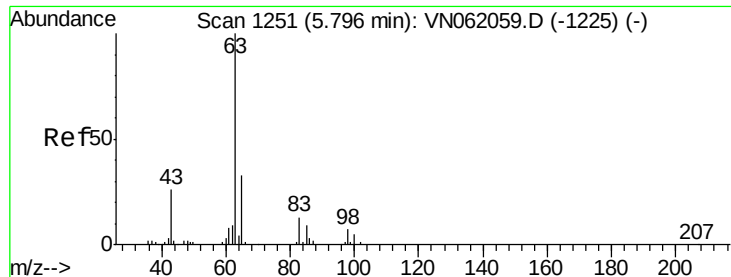
#16
Acetone
Concen: Below Cal
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN062141.D
Acq: 26 Jun 2020 15:49

Tgt Ion: 43 Resp: 3443
Ion Ratio Lower Upper
43 100
58 33.5 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

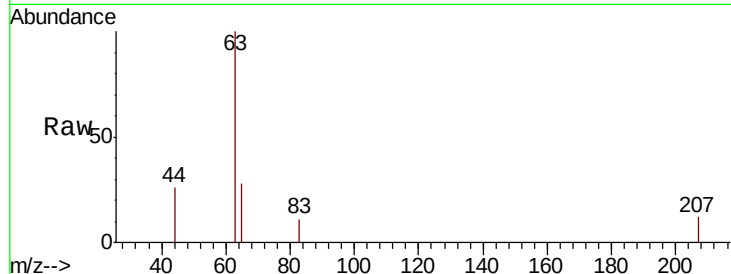




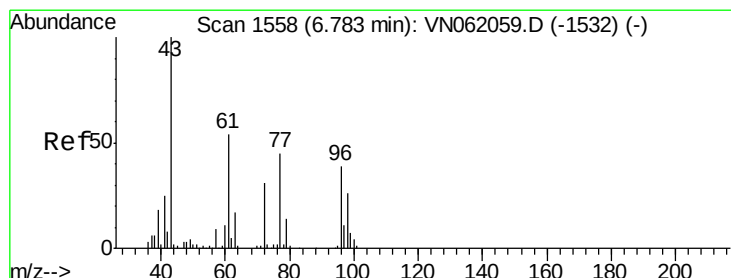
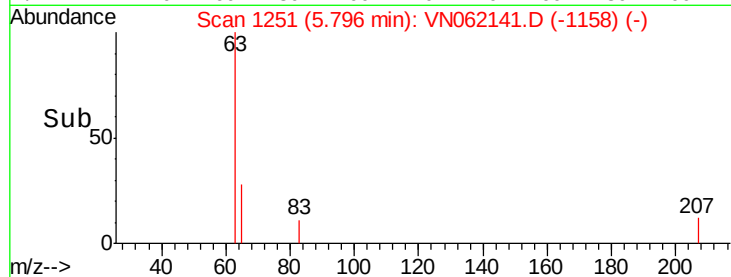
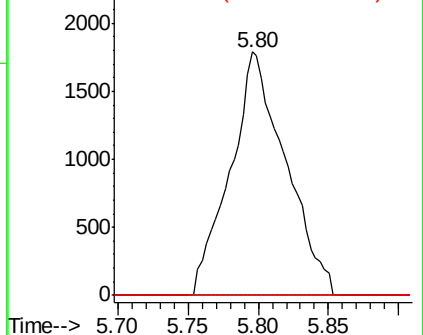
#24
 1,1-Dichloroethane
 Concen: 0.986 ug/l
 RT: 5.80 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20200622

Tot Ion: 63 Resp: 4910
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.6 10.9#
 100 0.0 2.4 7.1#

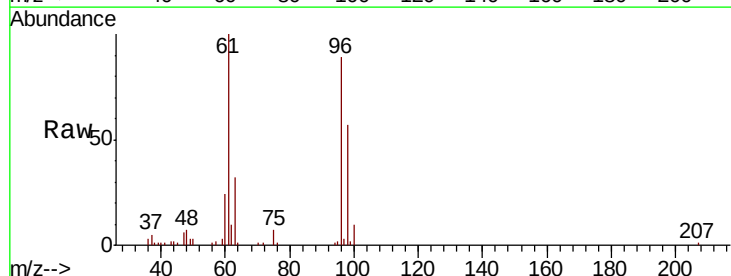


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

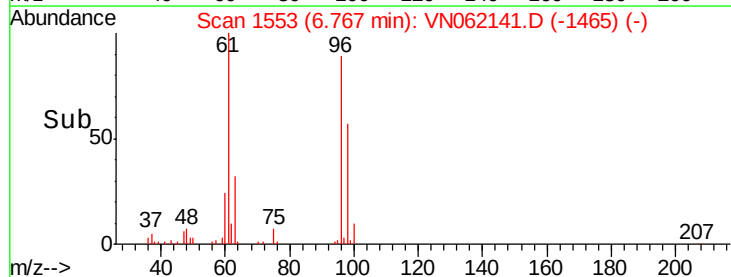
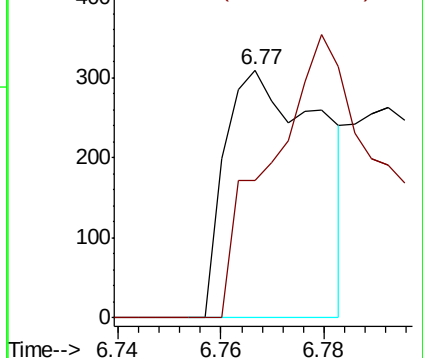


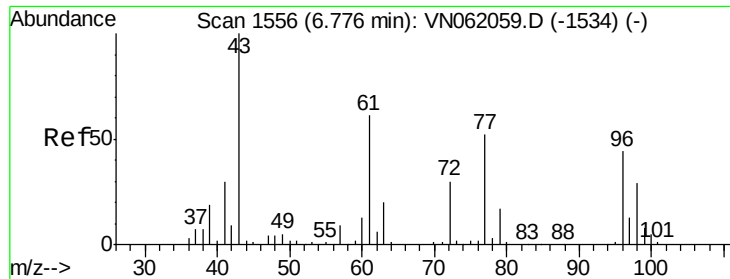
#25
 2-Butanone
 Concen: 0.267 ug/l
 RT: 6.77 min Scan# 1553
 Delta R.T. -0.02 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Tgt Ion: 43 Resp: 398
 Ion Ratio Lower Upper
 43 100
 72 55.3 24.8 37.2#



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





#27

cis-1,2-Dichloroethene

Concen: 20.015 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

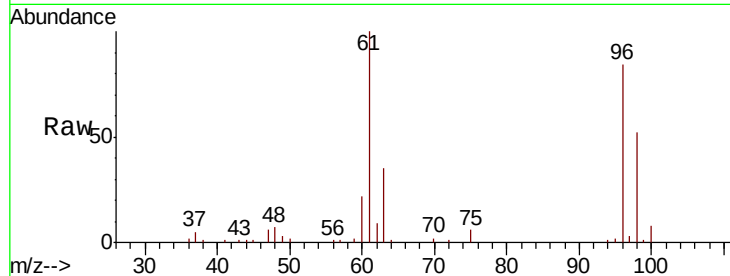
Tot Ion: 96 Resp: 64010

Ion Ratio Lower Upper

96 100

61 119.0 0.0 280.4

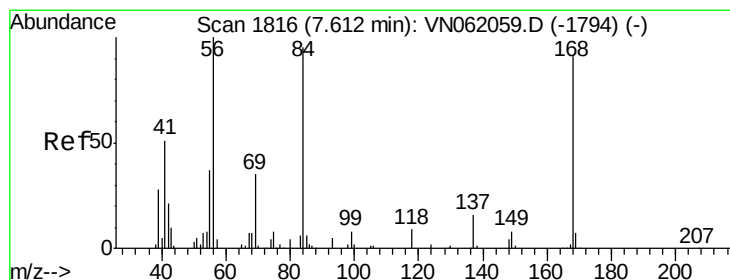
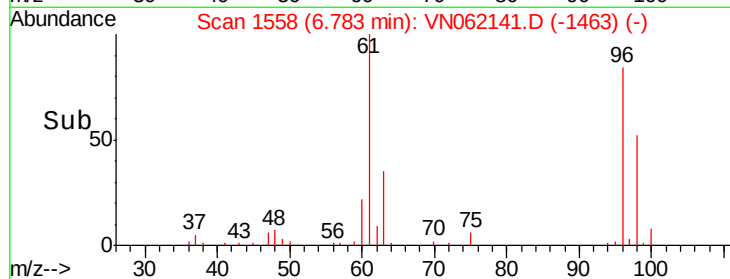
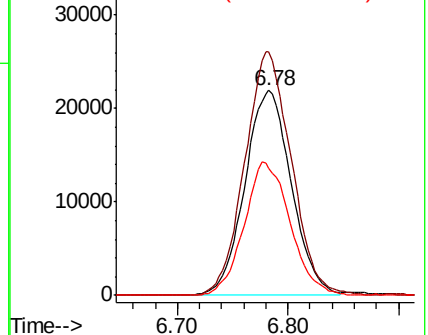
98 64.2 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.204 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

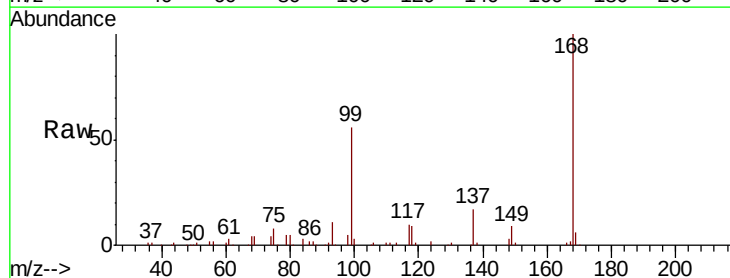
Tgt Ion: 56 Resp: 5073

Ion Ratio Lower Upper

56 100

69 166.9 28.0 42.0#

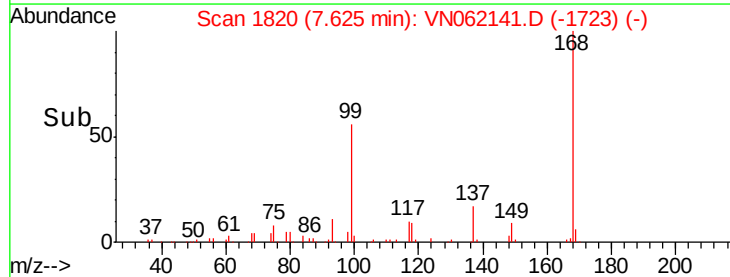
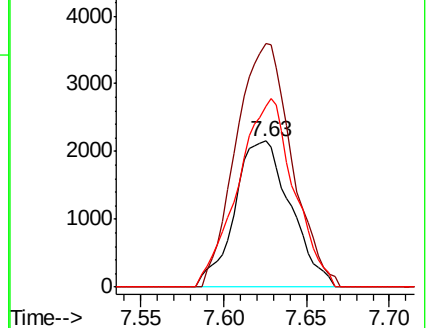
84 123.8 76.1 114.1#

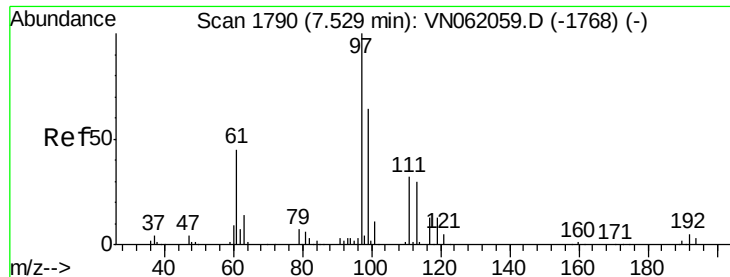


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#32

1,1,1-Trichloroethane

Concen: 0.295 ug/l

RT: 7.52 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

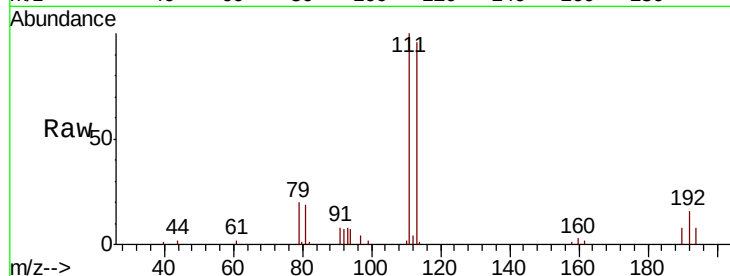
Tot Ion: 97 Resp: 1262

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

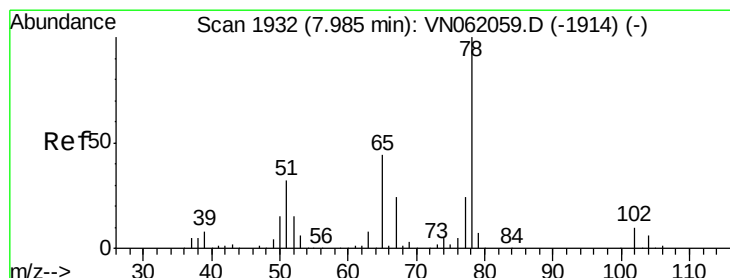
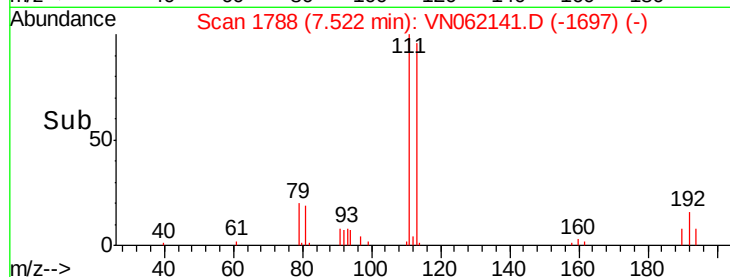
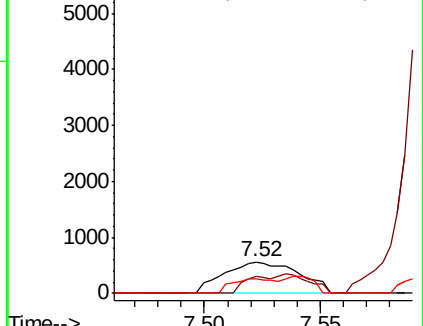
61 27.2 36.2 54.2#



Abundance Ion 96.90 (96.60 to 97.60): VN062059.D (-1768) (-)

Ion 98.90 (98.60 to 99.60): VN062059.D (-1768) (-)

Ion 60.90 (60.60 to 61.60): VN062059.D (-1768) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.639 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062141.D

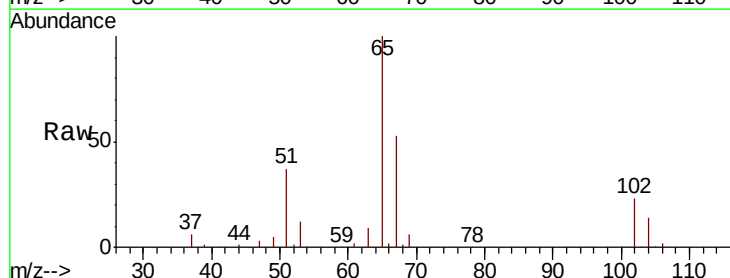
Acq: 26 Jun 2020 15:49

Tgt Ion: 65 Resp: 151350

Ion Ratio Lower Upper

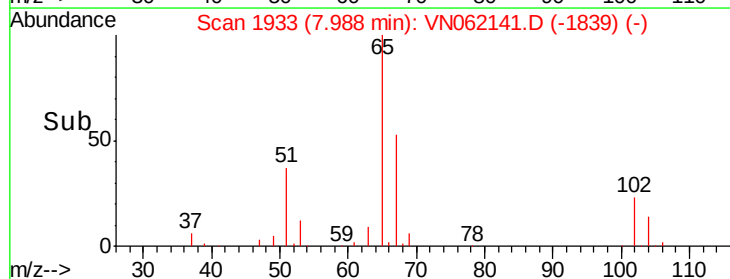
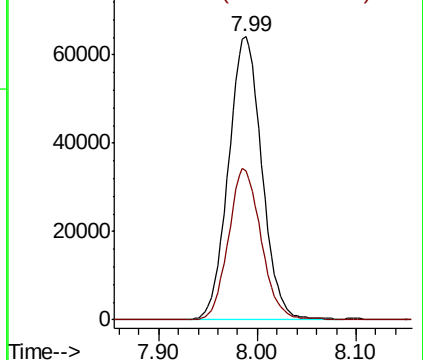
65 100

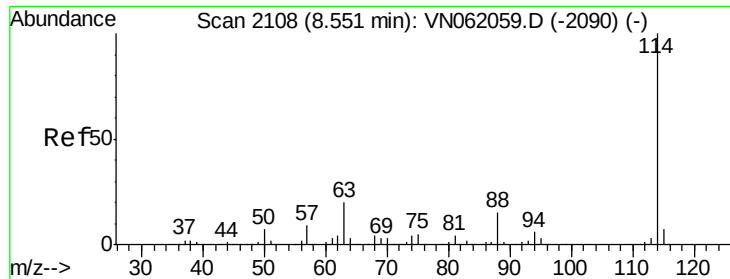
67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062059.D (-1914) (-)

Ion 66.90 (66.60 to 67.60): VN062059.D (-1914) (-)

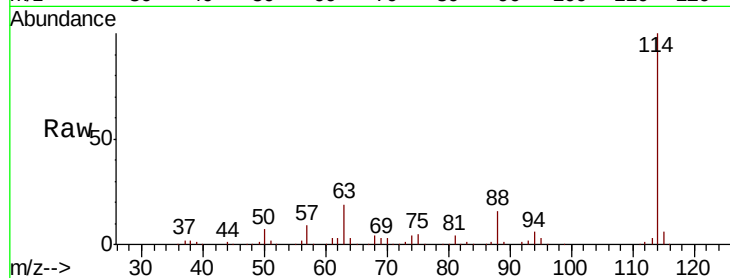




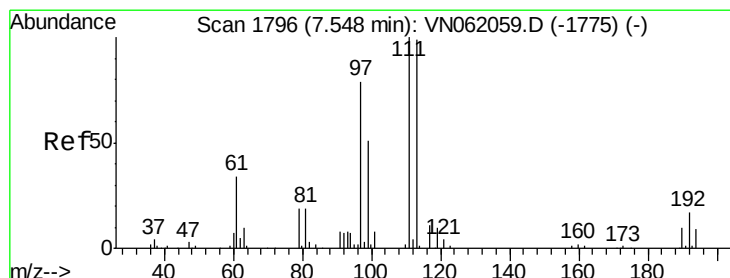
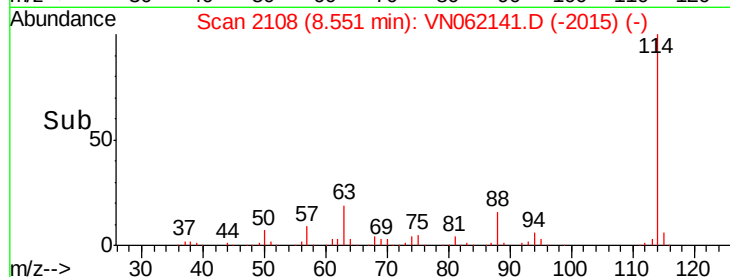
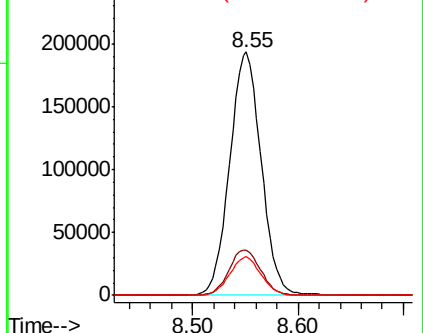
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20200622

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	39.2
88	15.9	0.0	30.8

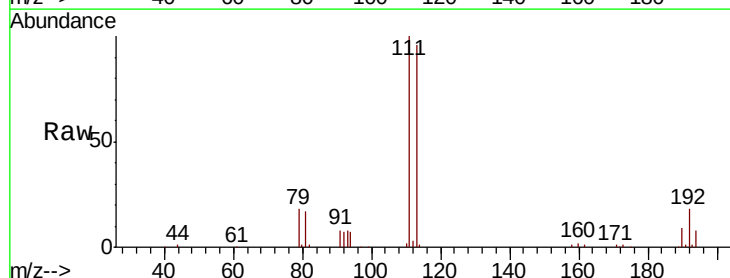


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

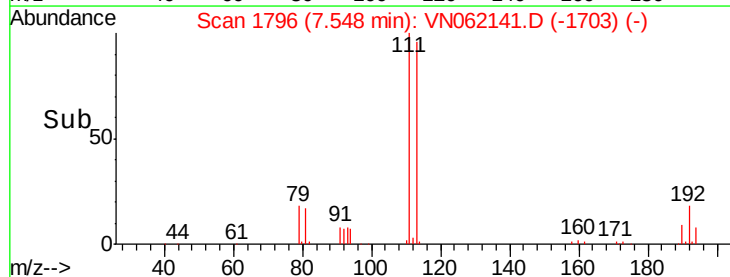
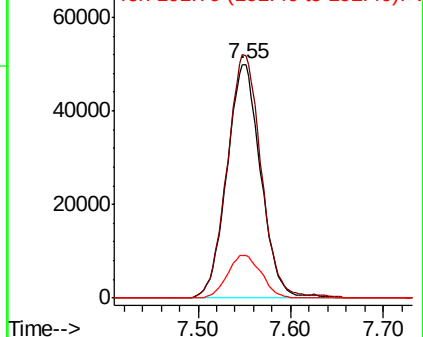


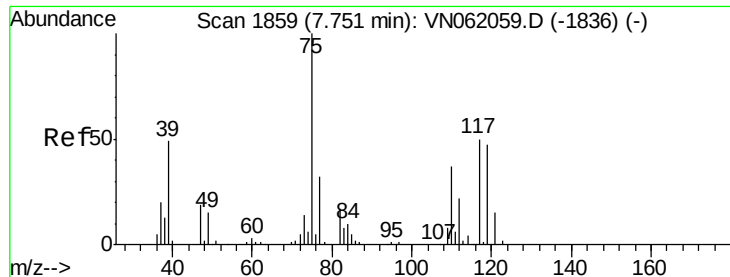
#35
 Dibromofluoromethane
 Concen: 49.291 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.2	123.4
192	18.3	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

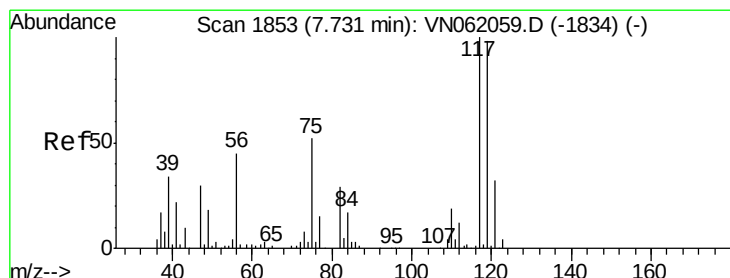
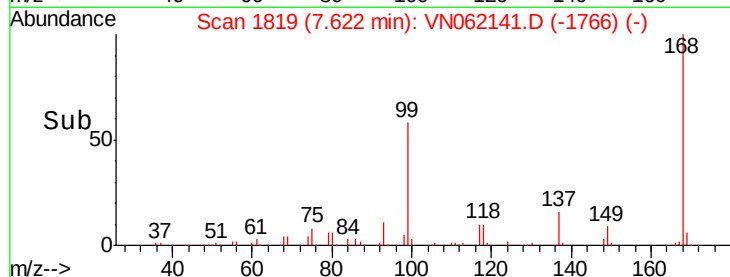
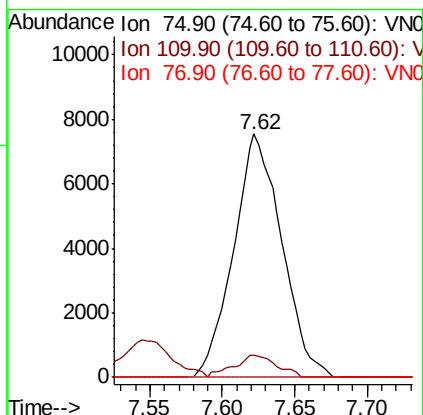
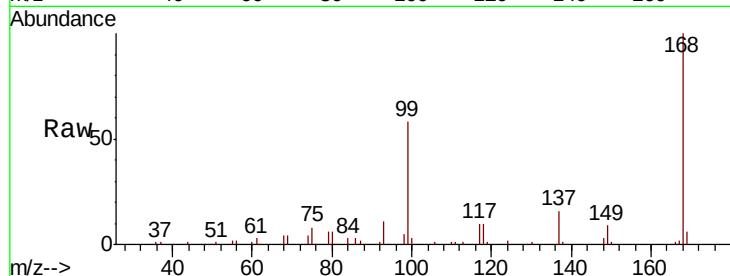




#36
 1,1-Dichloropropene
 Concen: 4.329 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

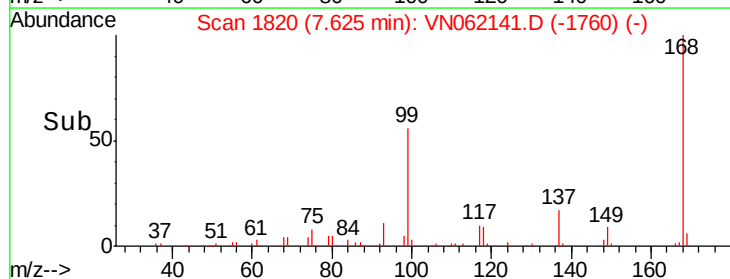
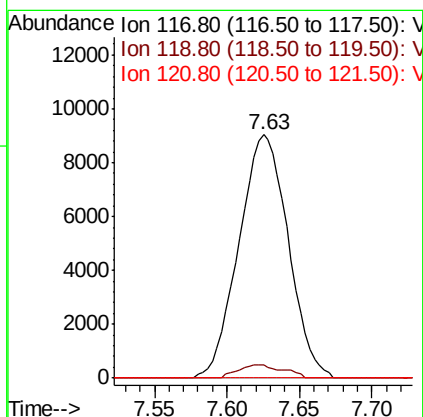
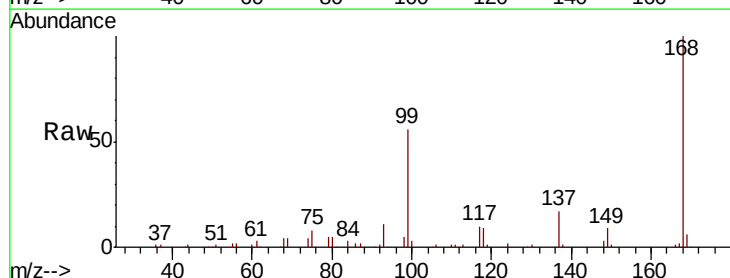
Instrument :
 MSVOA_N
 ClientSampleId :
 48BR-20200622

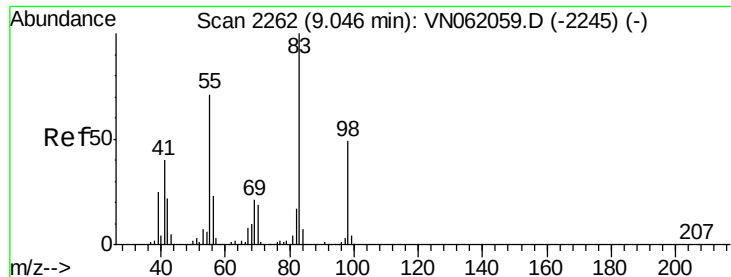
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.648 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062141.D
 Acq: 26 Jun 2020 15:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.2	117.2#
121	0.0	25.8	38.6#





#39

Methylvlcyclohexane

Concen: 4.872 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

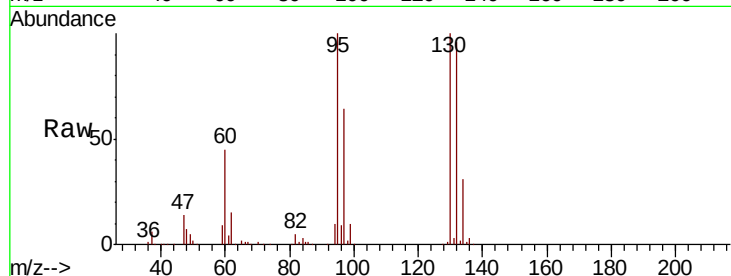
Tot Ion: 83 Resp: 21449

Ion Ratio Lower Upper

83 100

55 0.0 57.0 85.6#

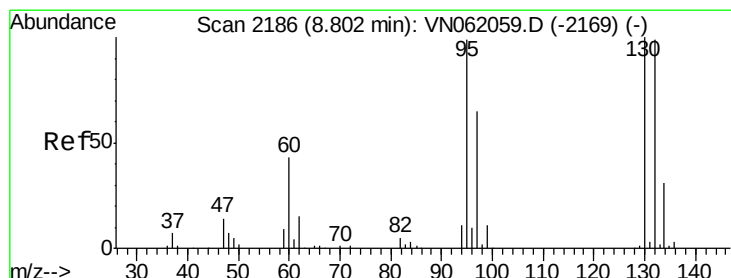
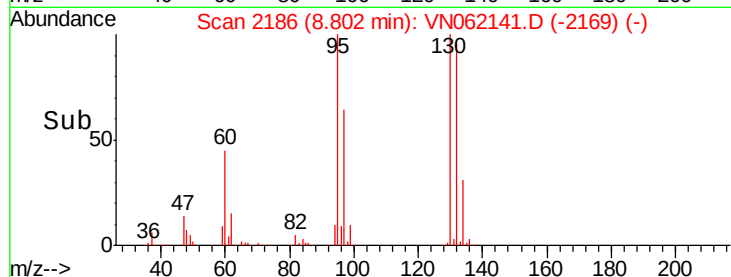
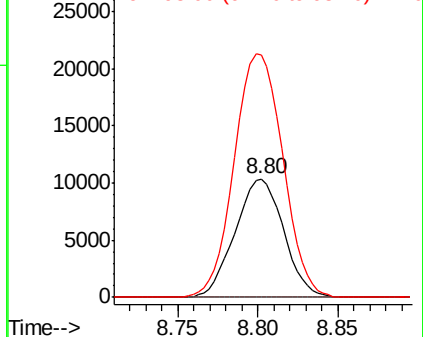
98 204.6 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#44

Trichloroethene

Concen: 585.317 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062141.D

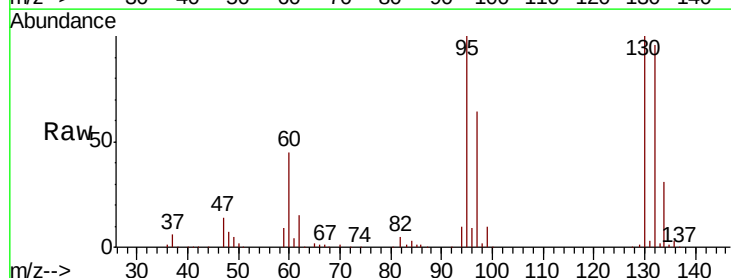
Acq: 26 Jun 2020 15:49

Tgt Ion:130 Resp: 1808322

Ion Ratio Lower Upper

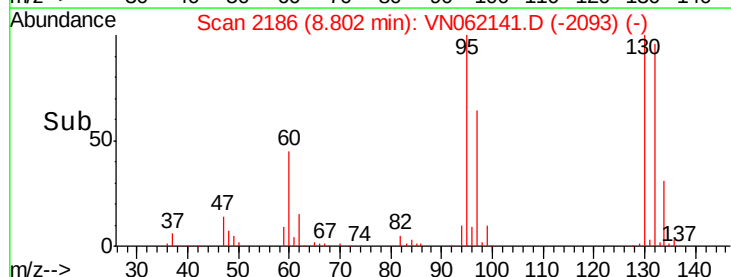
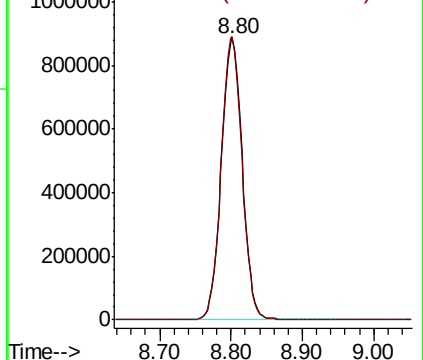
130 100

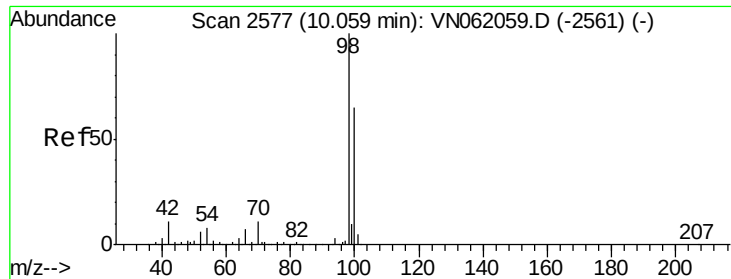
95 100.5 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.080 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

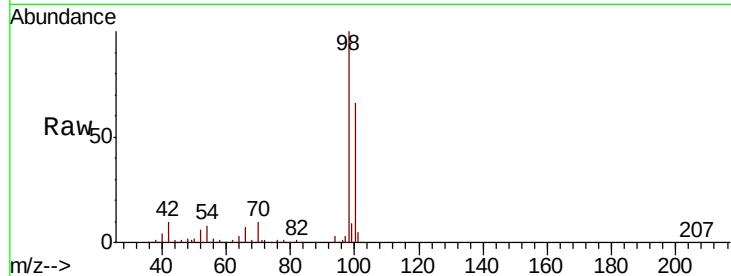
48BR-20200622

Tot Ion: 98 Resp: 503171

Ion Ratio Lower Upper

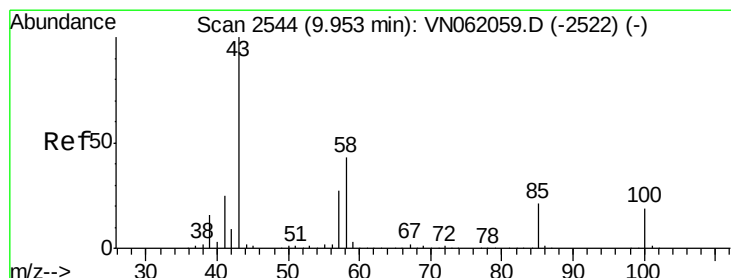
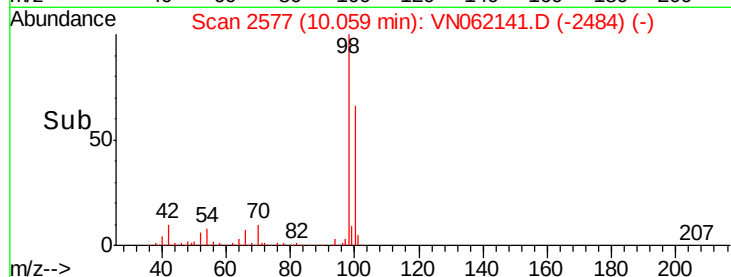
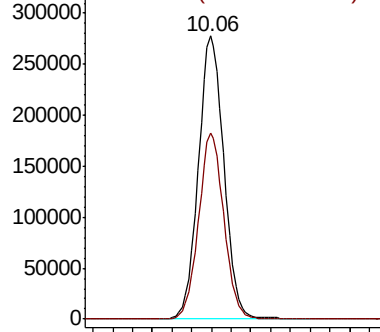
98 100

100 64.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.633 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN062141.D

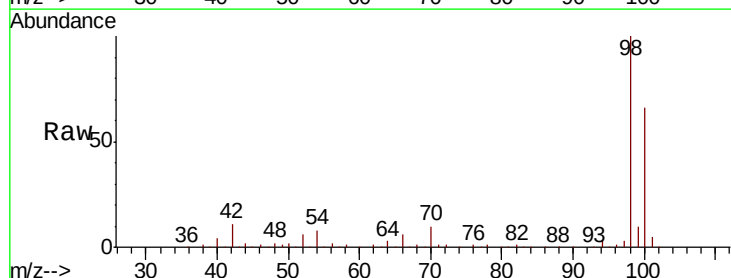
Acq: 26 Jun 2020 15:49

Tgt Ion: 43 Resp: 2005

Ion Ratio Lower Upper

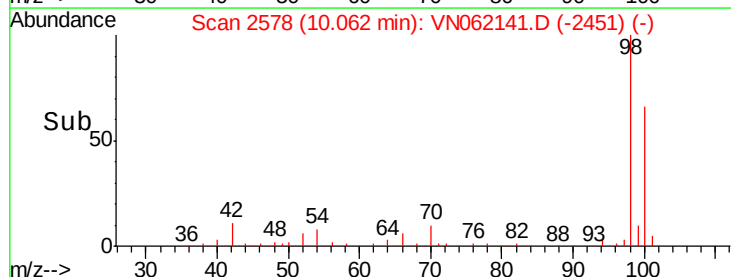
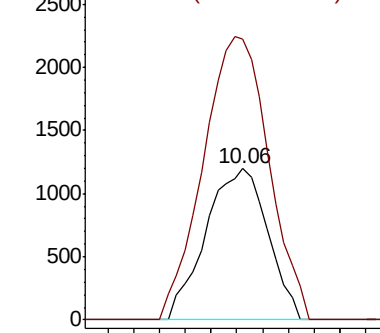
43 100

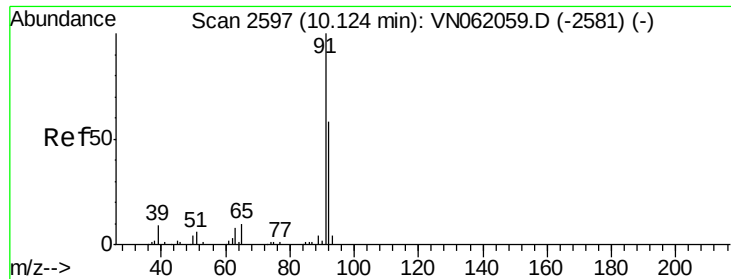
58 197.9 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.308 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

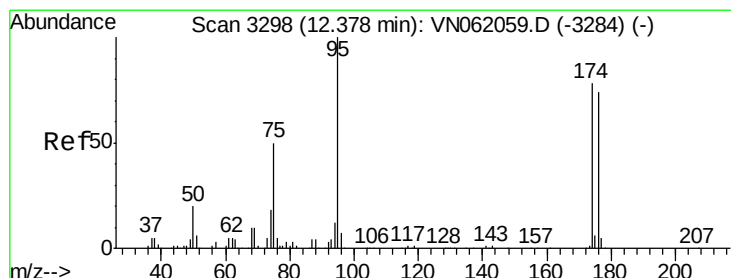
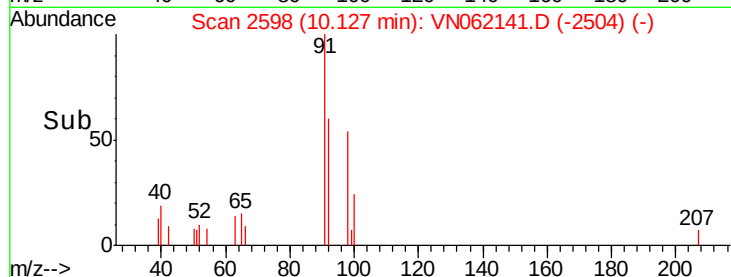
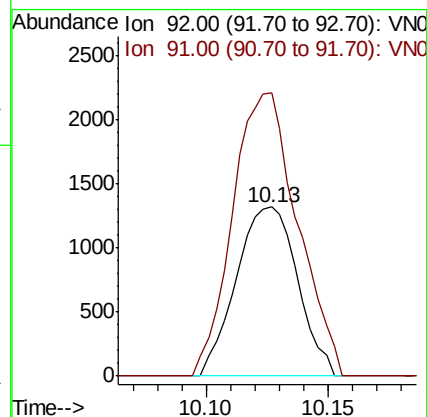
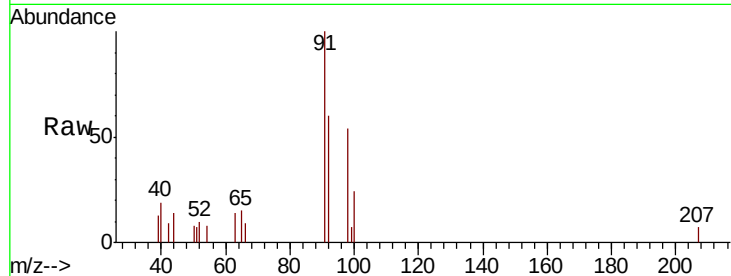
48BR-20200622

Tot Ion: 92 Resp: 2303

Ion Ratio Lower Upper

92 100

91 177.4 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 46.447 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

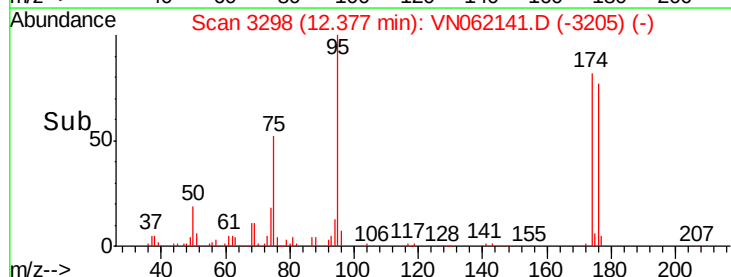
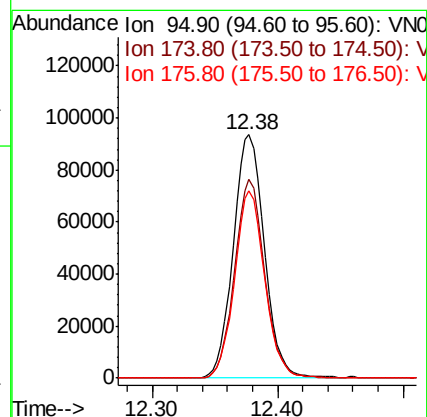
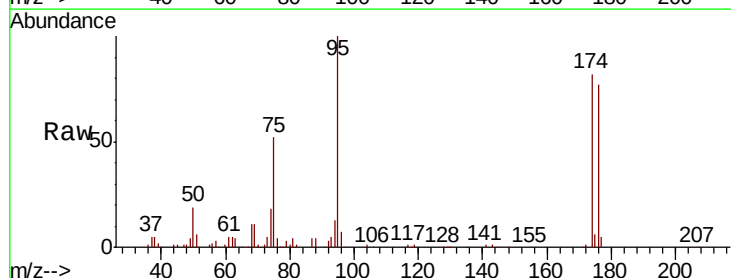
Tgt Ion: 95 Resp: 160880

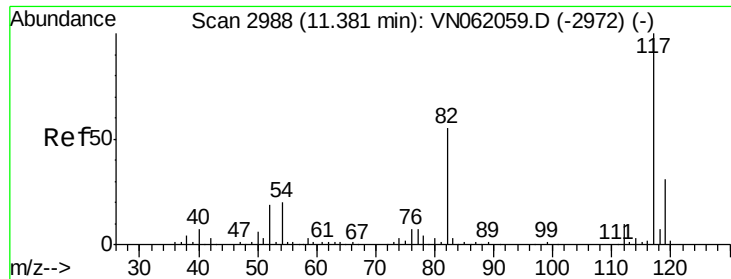
Ion Ratio Lower Upper

95 100

174 79.1 0.0 154.8

176 74.5 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: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

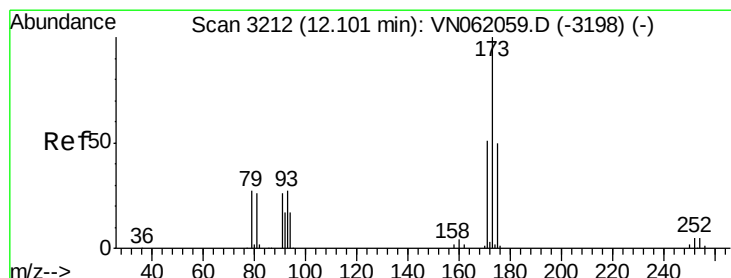
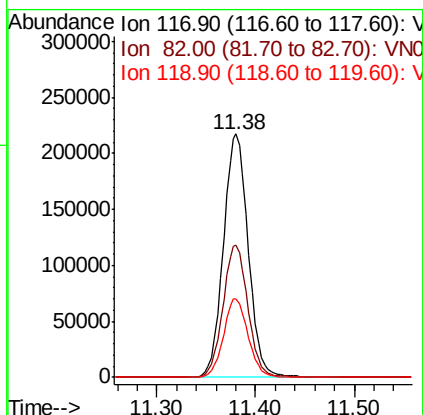
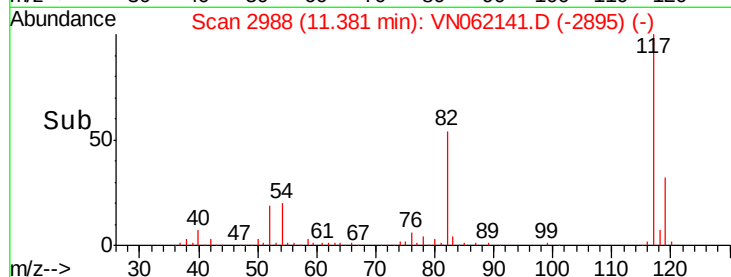
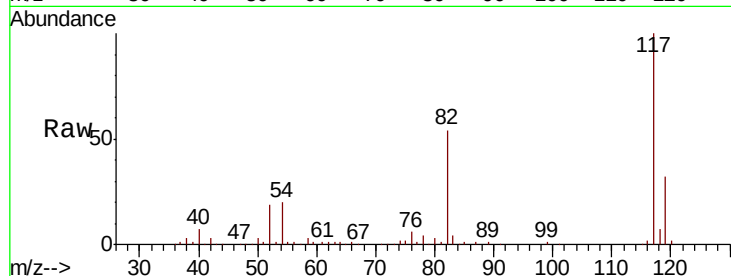
Tot Ion:117 Resp: 382696

Ion Ratio Lower Upper

117 100

82 54.3 43.8 65.8

119 32.3 25.2 37.8



#71

Bromoform

Concen: 0.330 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

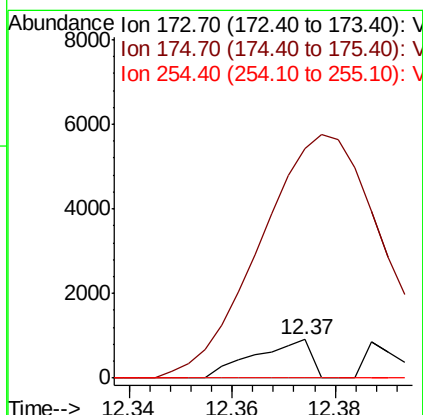
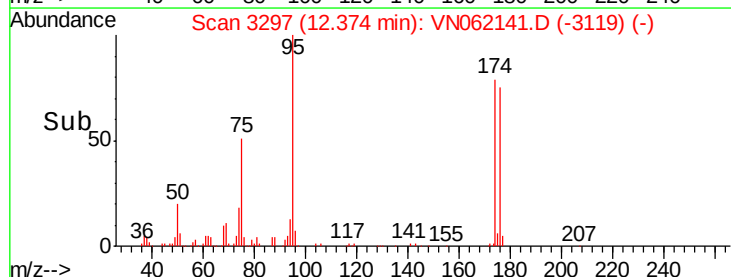
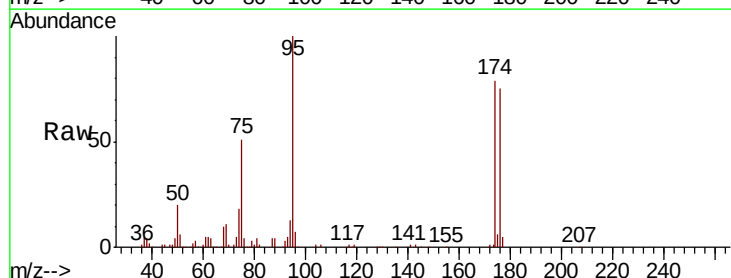
Tgt Ion:173 Resp: 681

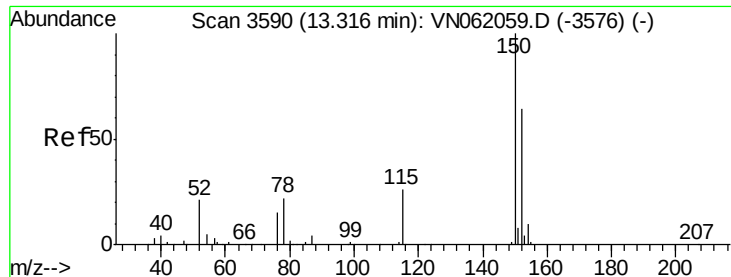
Ion Ratio Lower Upper

173 100

175 1183.3 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: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

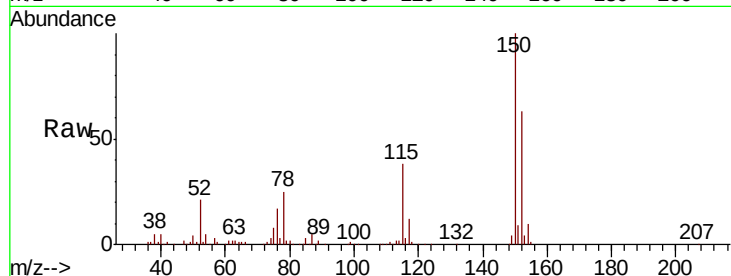
Tot Ion:152 Resp: 137521

Ion Ratio Lower Upper

152 100

115 59.2 29.5 88.5

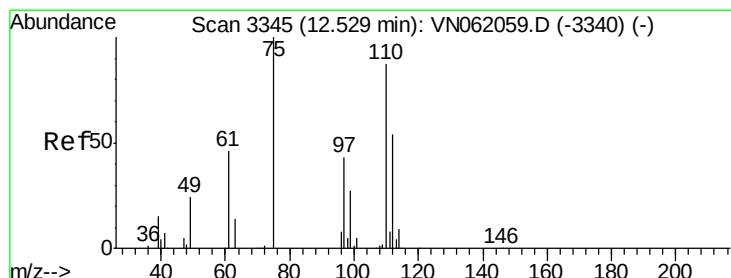
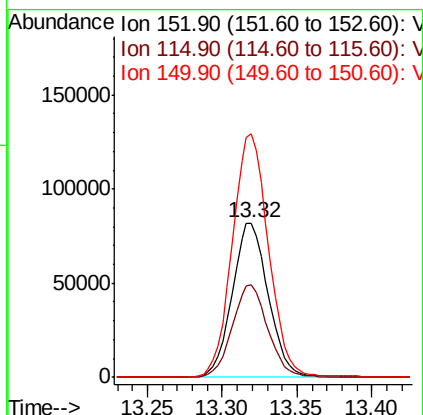
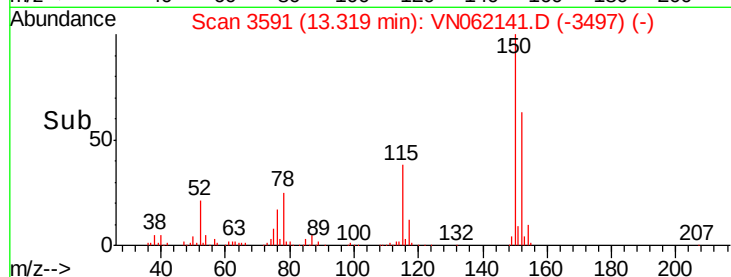
150 158.2 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.491 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062141.D

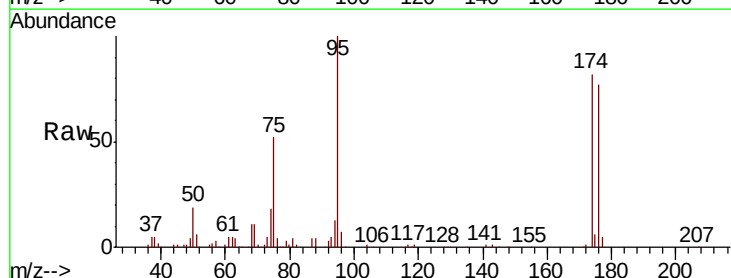
Acq: 26 Jun 2020 15:49

Tgt Ion: 75 Resp: 82525

Ion Ratio Lower Upper

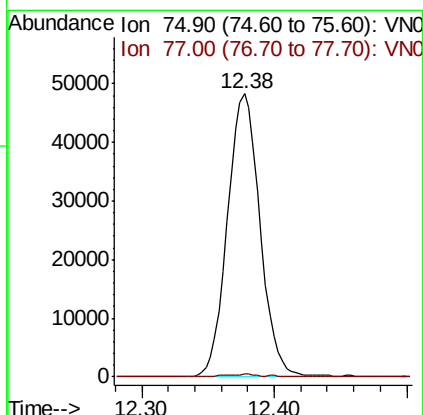
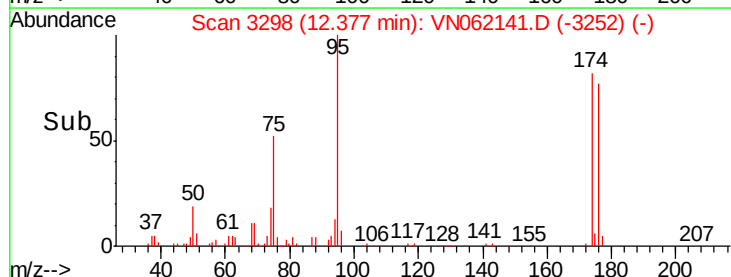
75 100

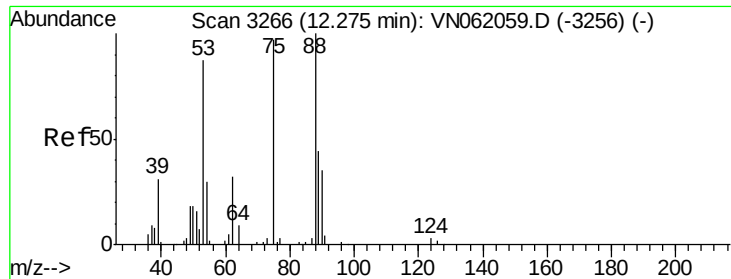
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.445 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062141.D

Acq: 26 Jun 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

48BR-20200622

Tot Ion: 75 Resp: 82525

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

