

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062147.D
 Acq On : 26 Jun 2020 18:14
 Operator : JC/MD
 Sample : L3127-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 04BR-20200625

Quant Time: Jun 27 03:44:32 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

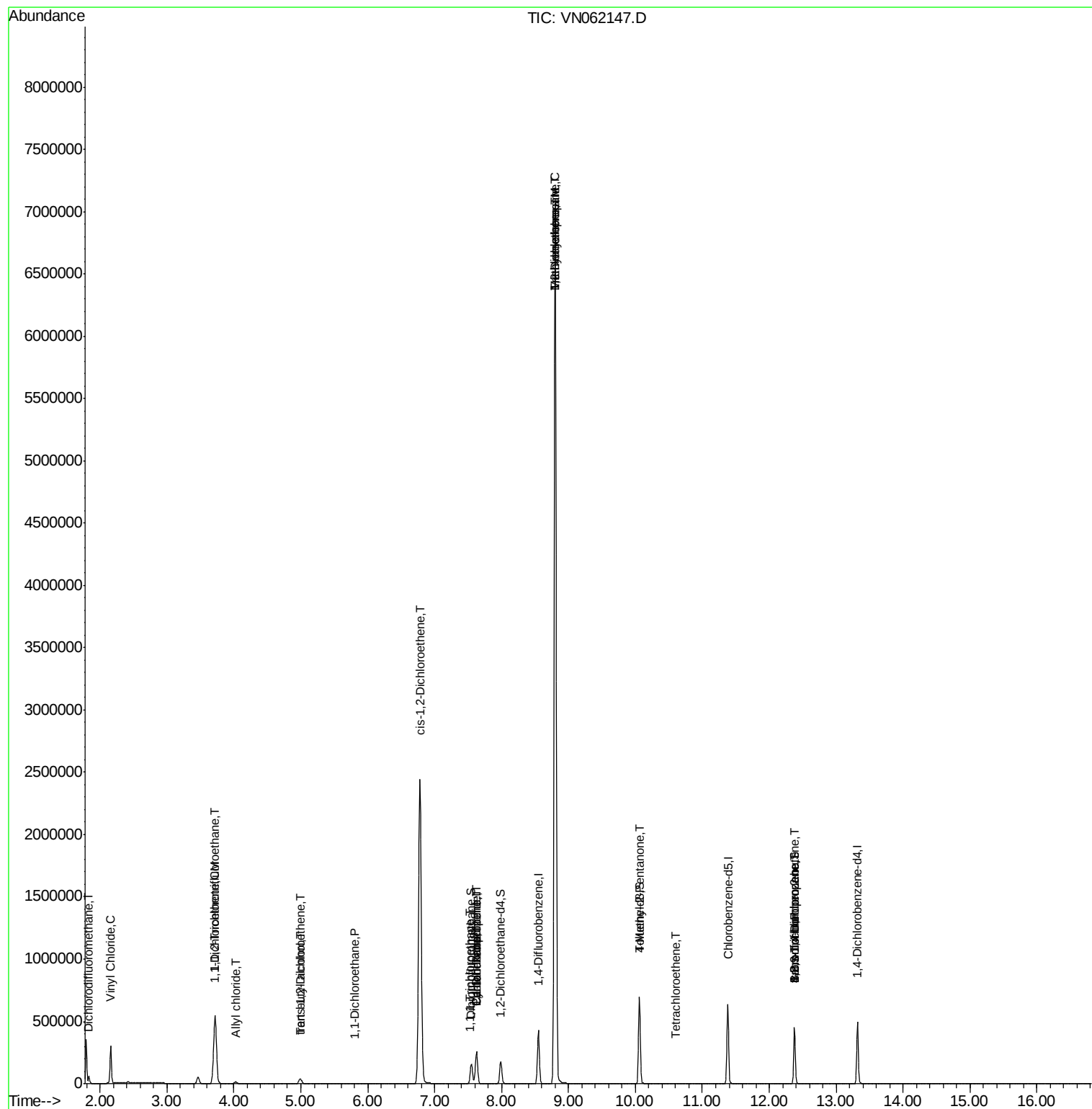
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	210389	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	384927	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	372202	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	135645	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	147578	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
35) Dibromofluoromethane	7.55	113	123609	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
50) Toluene-d8	10.06	98	494689	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.38	95	156478	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	40876	17.189	ug/l	98
3) Chloromethane	2.04	50	719	Below Cal		95
4) Vinyl Chloride	2.16	62	265411	70.871	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.72	101	337360	139.606	ug/l	99
11) Tert butyl alcohol	5.00	59	881	2.078	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	21458	8.882	ug/l	93
14) Allyl chloride	4.02	41	2317	0.704	ug/l #	70
16) Acetone	3.78	43	1760	Below Cal		95
20) Methylene Chloride	4.49	84	158	Below Cal	#	66
21) trans-1,2-Dichloroethene	4.99	96	26418	9.599	ug/l	98
24) 1,1-Dichloroethane	5.81	63	2458	0.510	ug/l #	82
27) cis-1,2-Dichloroethene	6.78	96	1699283	548.727	ug/l	89
31) Cyclohexane	7.63	56	4656	1.141	ug/l #	1
32) 1,1,1-Trichloroethane	7.52	97	1640	0.396	ug/l #	50
36) 1,1-Dichloropropene	7.63	75	17598	4.548	ug/l #	47
38) Carbon Tetrachloride	7.62	117	21263	5.829	ug/l #	16
39) Methylcyclohexane	8.80	83	31345	7.394	ug/l #	1
44) Trichloroethene	8.80	130	2579076	866.980	ug/l	98
45) 1,2-Dichloropropane	8.80	63	5901	2.028	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	2003	0.656	ug/l #	1
64) Tetrachloroethene	10.61	164	585	0.230	ug/l #	86
71) Bromoform	12.37	173	1199	0.597	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	79260	24.822	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79260	72.488	ug/l #	13

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

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Quant Title : SW846 8260
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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: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

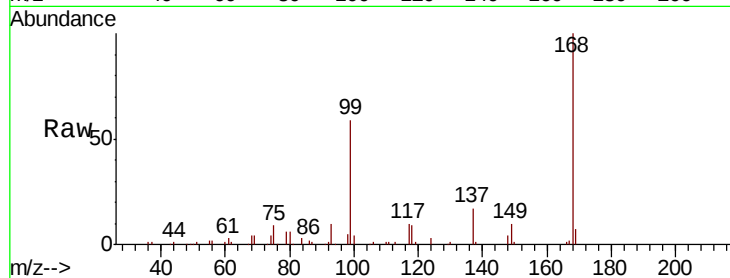
04BR-20200625

Tot Ion:168 Resp: 210389

Ion Ratio Lower Upper

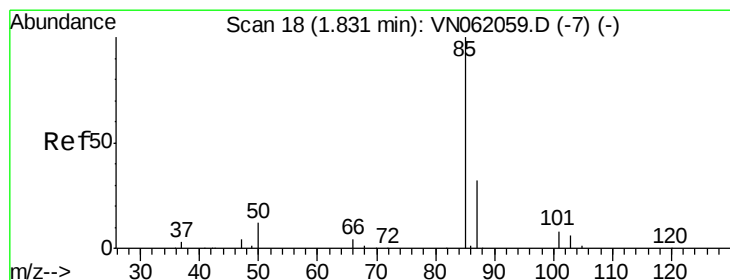
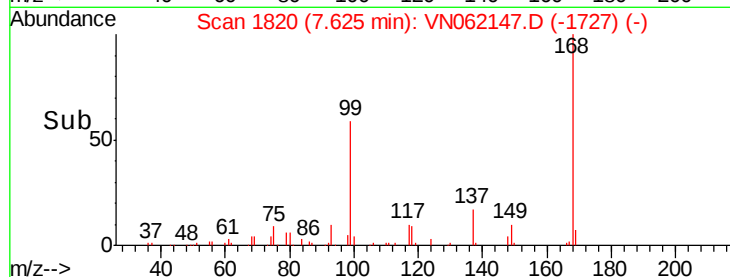
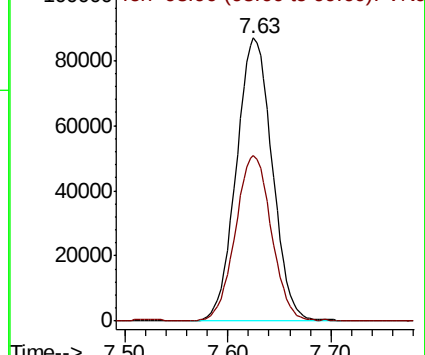
168 100

99 58.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062147.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN062147.D (-1727) (-)



#2

Dichlorodifluoromethane

Concen: 17.189 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062147.D

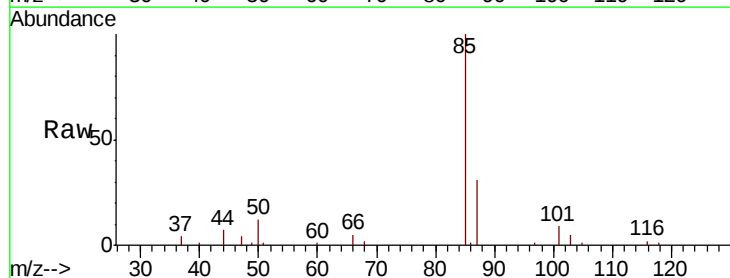
Acq: 26 Jun 2020 18:14

Tgt Ion: 85 Resp: 40876

Ion Ratio Lower Upper

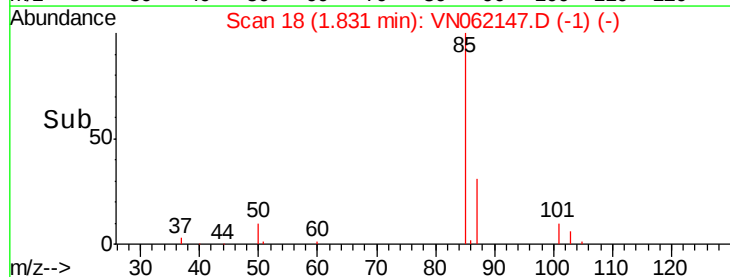
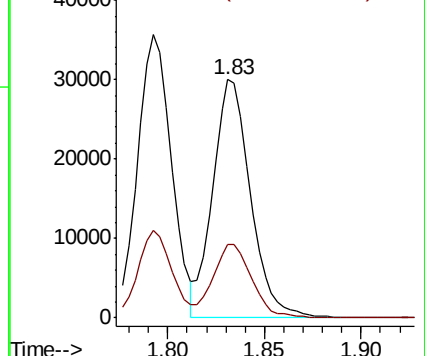
85 100

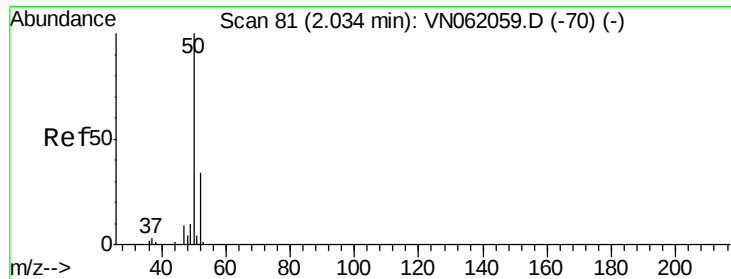
87 30.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN062147.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN062147.D (-1) (-)





#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

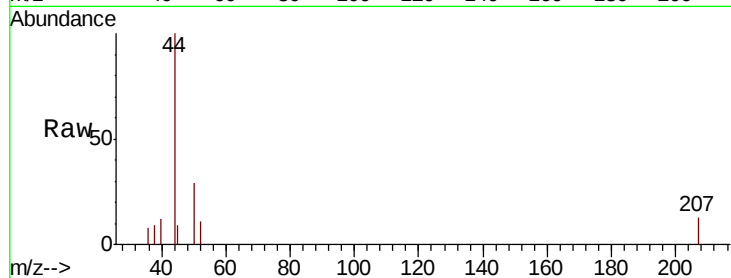
04BR-20200625

Tot Ion: 50 Resp: 719

Ion Ratio Lower Upper

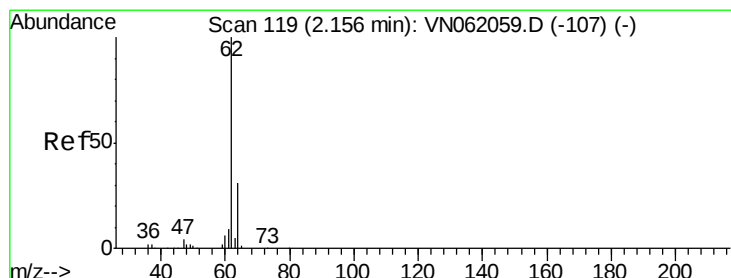
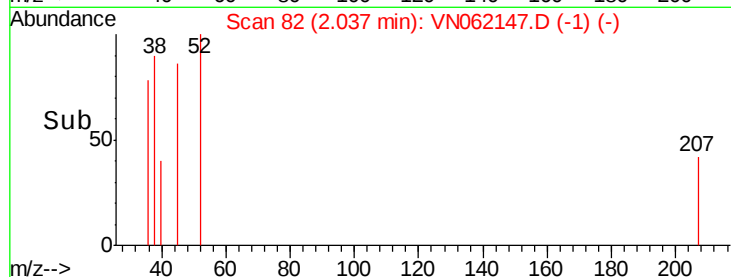
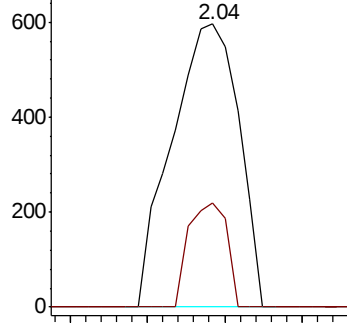
50 100

52 36.6 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 70.871 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062147.D

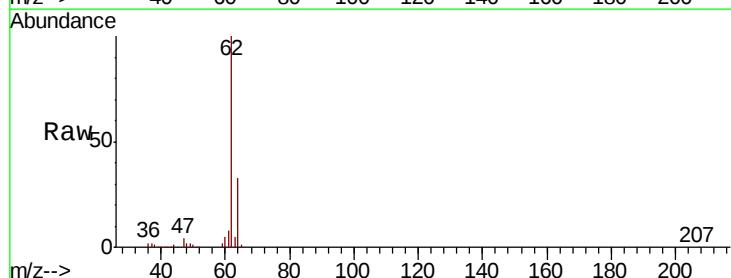
Acq: 26 Jun 2020 18:14

Tgt Ion: 62 Resp: 265411

Ion Ratio Lower Upper

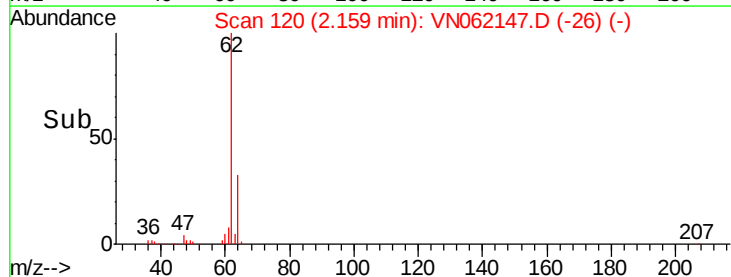
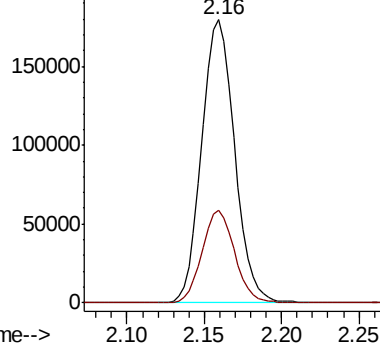
62 100

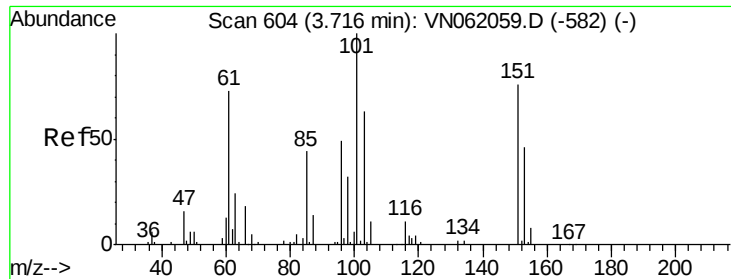
64 32.6 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 139.606 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

04BR-20200625

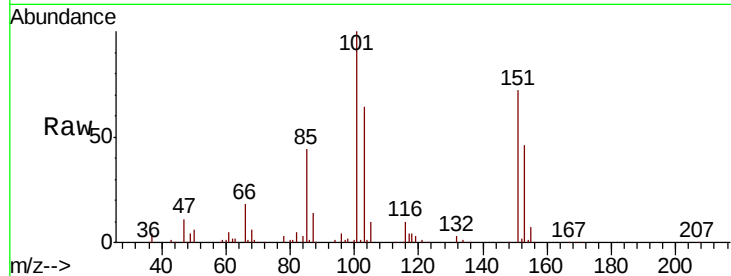
Tot Ion:101 Resp: 337360

Ion Ratio Lower Upper

101 100

85 43.8 34.5 51.7

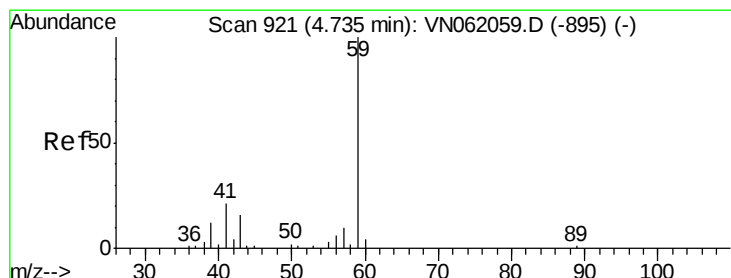
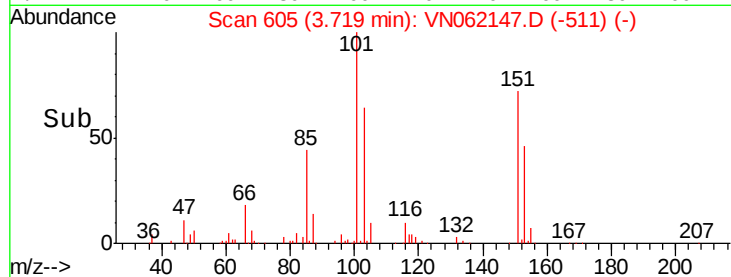
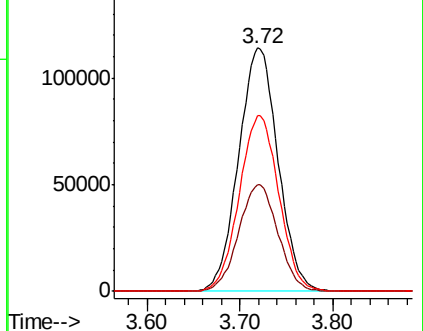
151 72.5 57.8 86.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 2.078 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.26 min

Lab File: VN062147.D

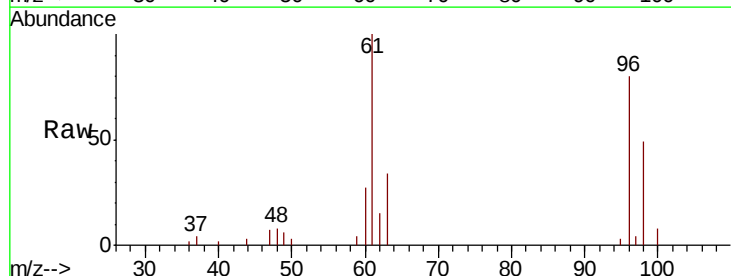
Acq: 26 Jun 2020 18:14

Tgt Ion: 59 Resp: 881

Ion Ratio Lower Upper

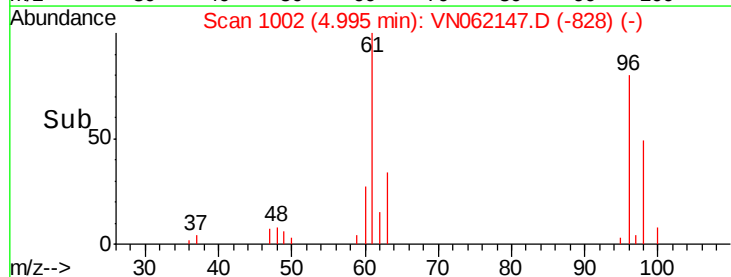
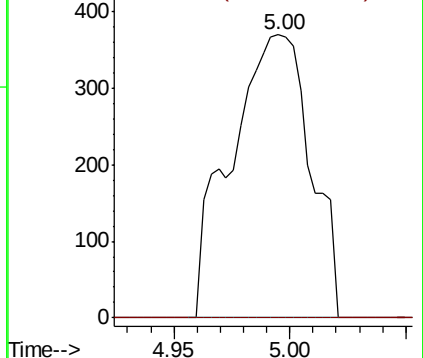
59 100

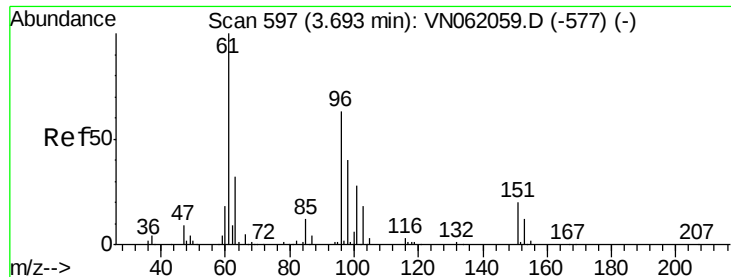
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

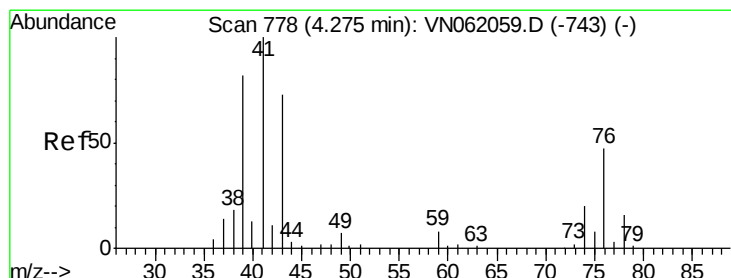
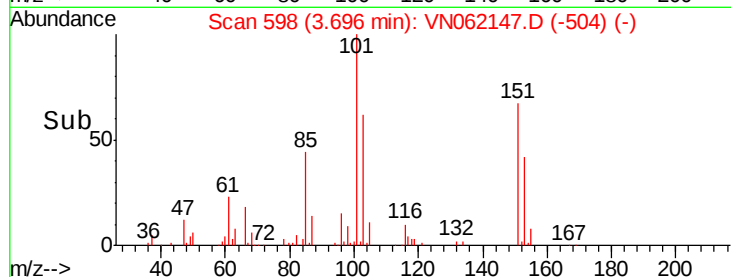
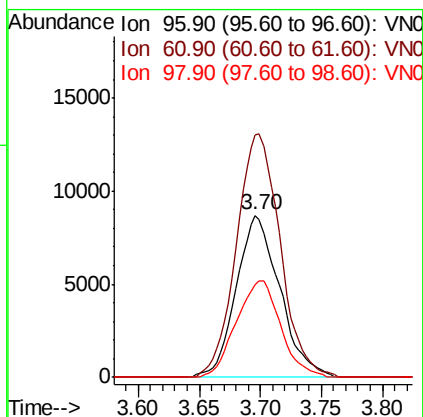
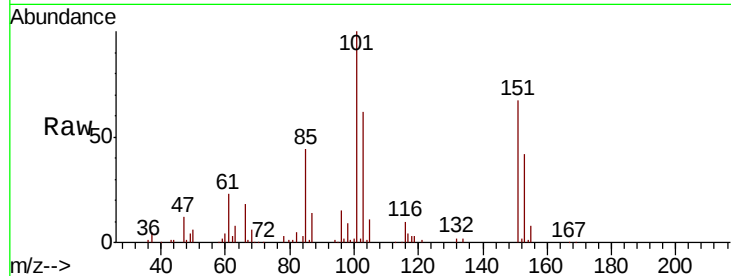




#12
 1,1-Dichloroethene
 Concen: 8.882 ug/l
 RT: 3.70 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

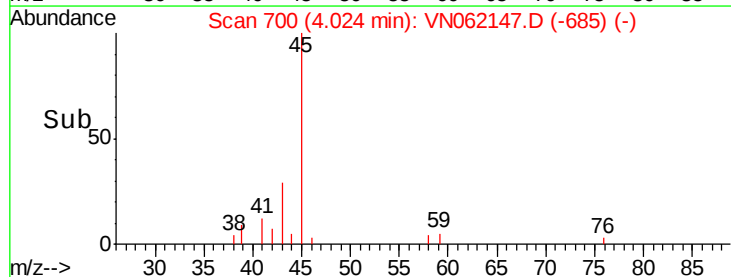
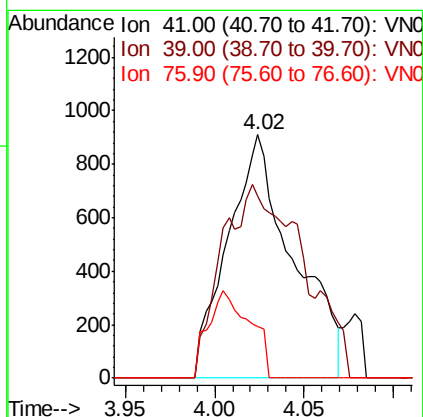
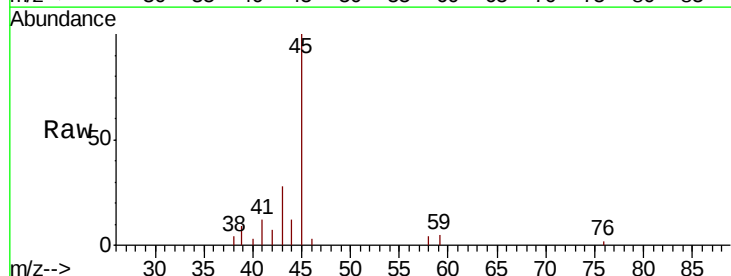
Instrument :
 MSVOA_N
 ClientSampleId :
 04BR-20200625

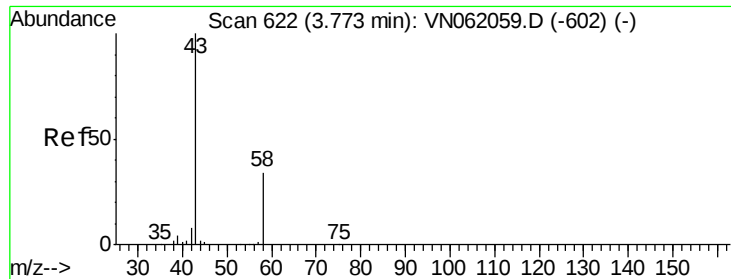
Tot Ion: 96 Resp: 21458
 Ion Ratio Lower Upper
 96 100
 61 149.9 126.7 190.1
 98 57.5 51.0 76.4



#14
 Allyl chloride
 Concen: 0.704 ug/l
 RT: 4.02 min Scan# 700
 Delta R.T. -0.25 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

Tgt Ion: 41 Resp: 2317
 Ion Ratio Lower Upper
 41 100
 39 99.5 60.0 90.0#
 76 22.8 34.1 51.1#





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

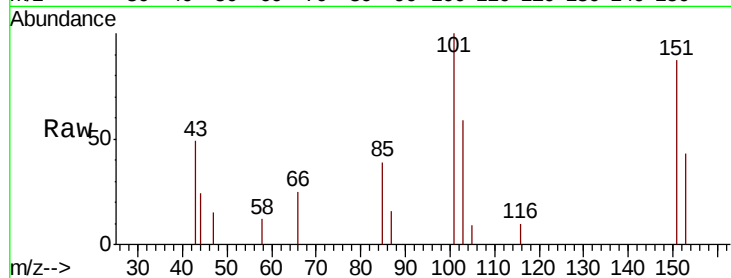
04BR-20200625

Tot Ion: 43 Resp: 1760

Ion Ratio Lower Upper

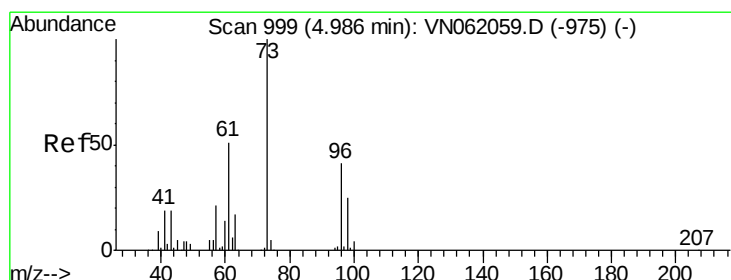
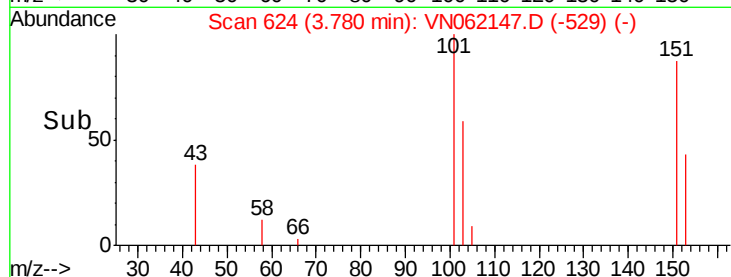
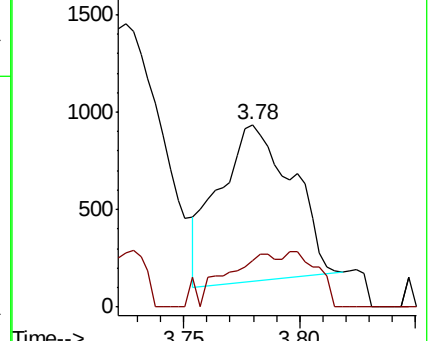
43 100

58 31.4 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#21

trans-1,2-Dichloroethene

Concen: 9.599 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

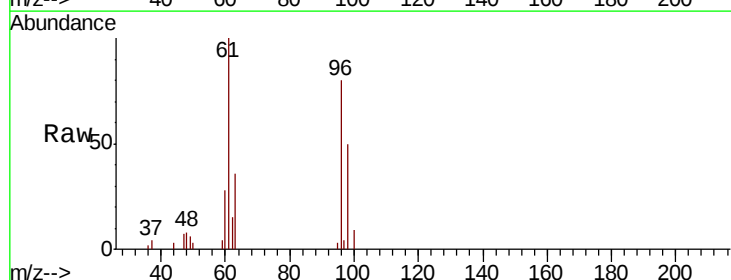
Tgt Ion: 96 Resp: 26418

Ion Ratio Lower Upper

96 100

61 124.6 101.4 152.2

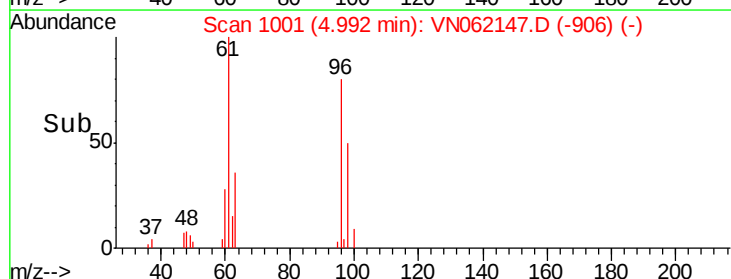
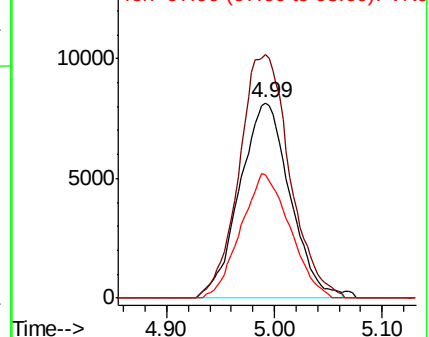
98 62.9 49.3 73.9

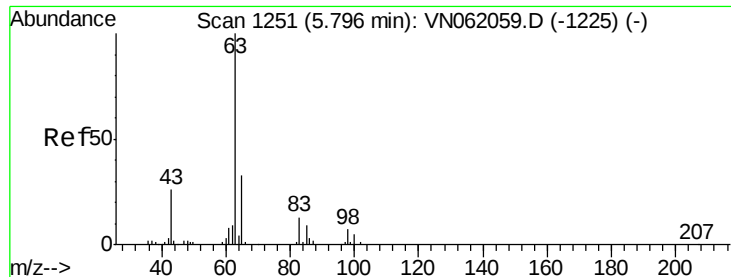


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#24

1,1-Dichloroethane

Concen: 0.510 ug/l

RT: 5.81 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

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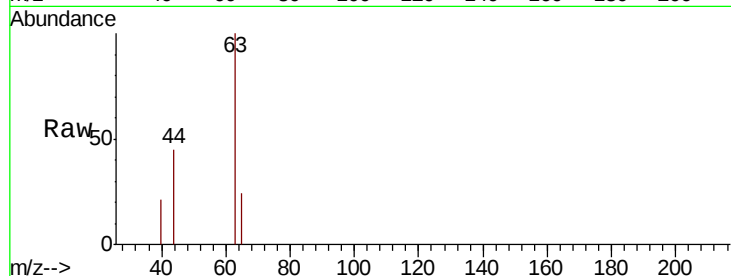
Tot Ion: 63 Resp: 2458

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

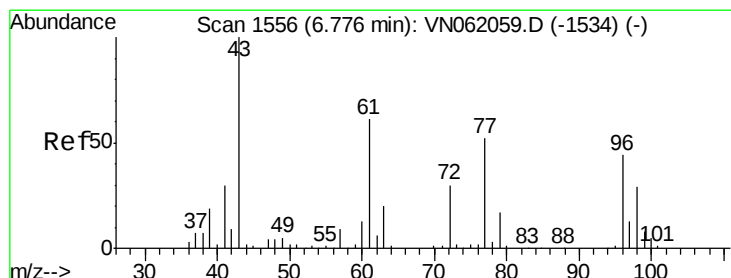
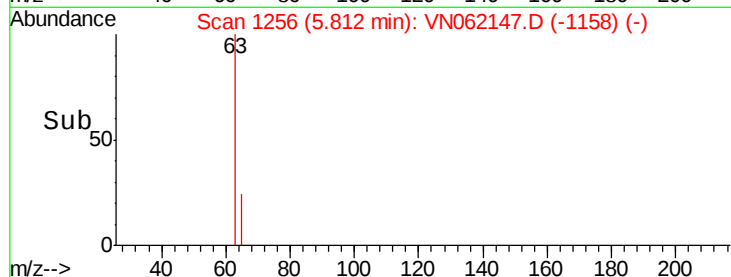
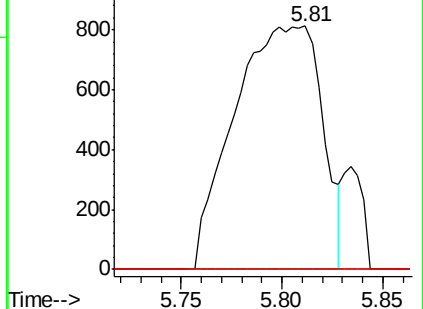
100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VN062147.D (-1158) (-)

Ion 97.90 (97.60 to 98.60): VN062147.D (-1158) (-)

Ion 99.90 (99.60 to 100.60): VN062147.D (-1158) (-)



#27

cis-1,2-Dichloroethene

Concen: 548.727 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

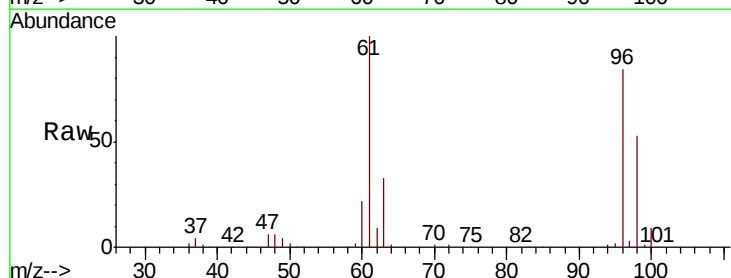
Tgt Ion: 96 Resp: 1699283

Ion Ratio Lower Upper

96 100

61 120.7 0.0 280.4

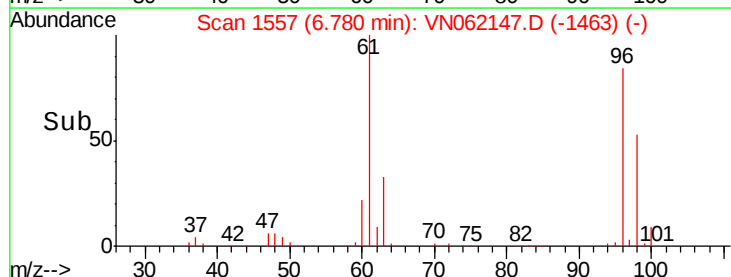
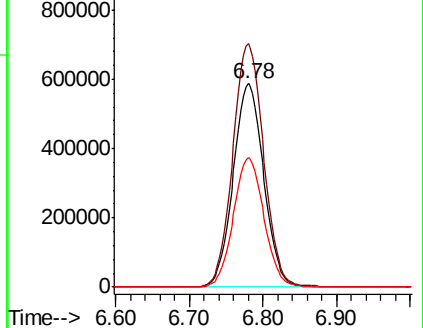
98 63.6 0.0 129.4

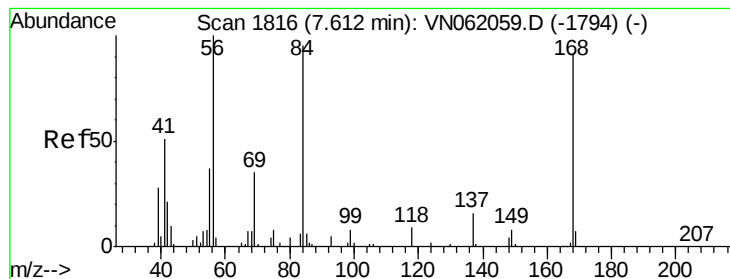


Abundance Ion 95.90 (95.60 to 96.60): VN062147.D (-1463) (-)

Ion 60.90 (60.60 to 61.60): VN062147.D (-1463) (-)

Ion 97.90 (97.60 to 98.60): VN062147.D (-1463) (-)





#31

Cvclohexane

Concen: 1.141 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

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ClientSampleId :

04BR-20200625

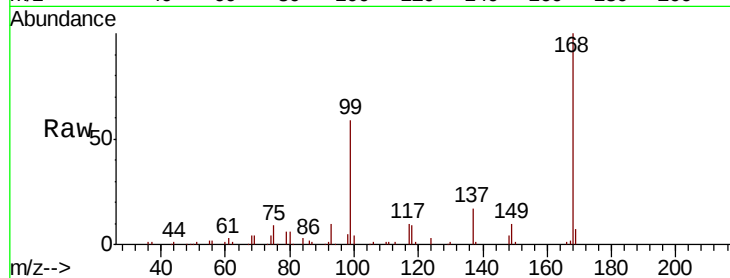
Tot Ion: 56 Resp: 4656

Ion Ratio Lower Upper

56 100

69 169.5 28.0 42.0#

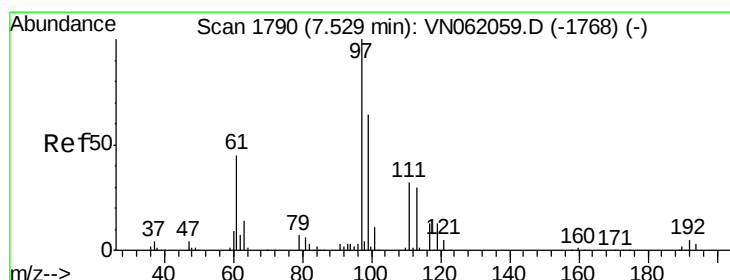
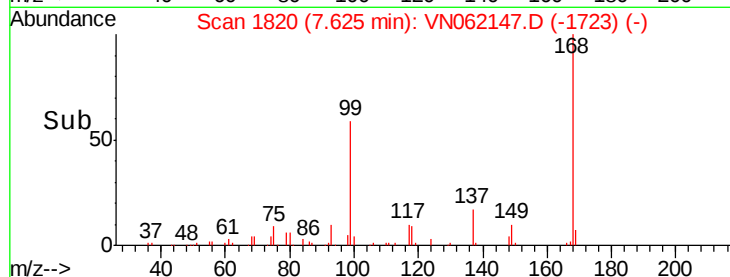
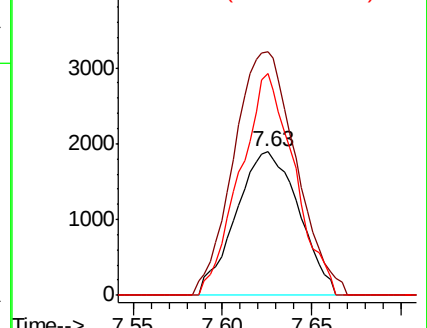
84 154.1 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 0.396 ug/l

RT: 7.52 min Scan# 1786

Delta R.T. -0.01 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

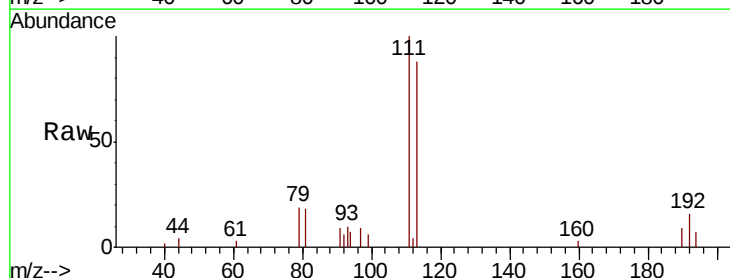
Tgt Ion: 97 Resp: 1640

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

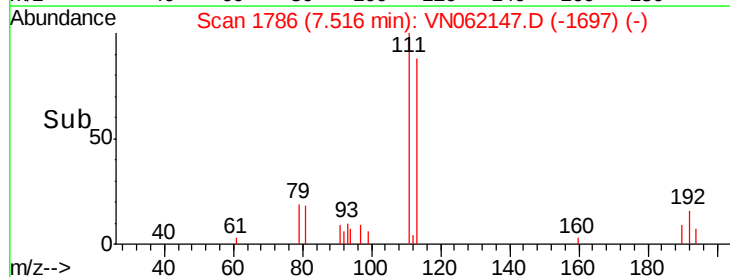
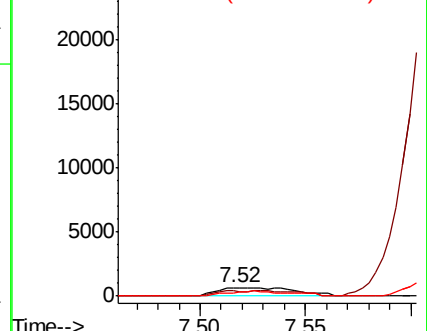
61 41.8 36.2 54.2

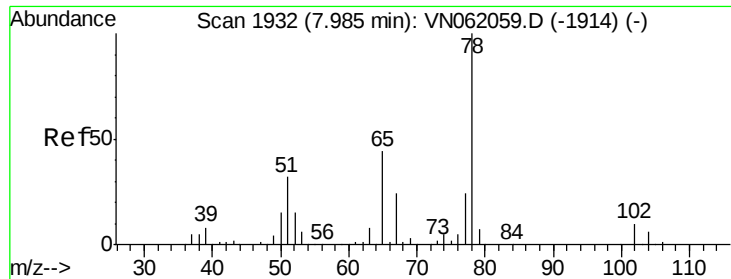


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

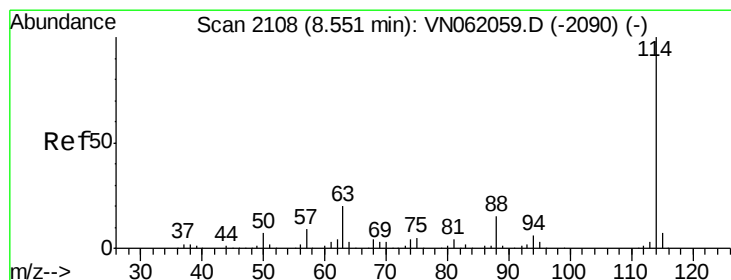
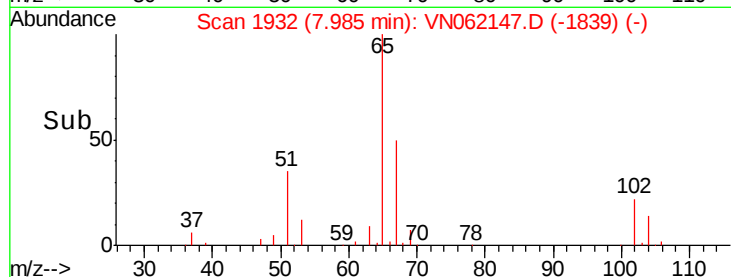
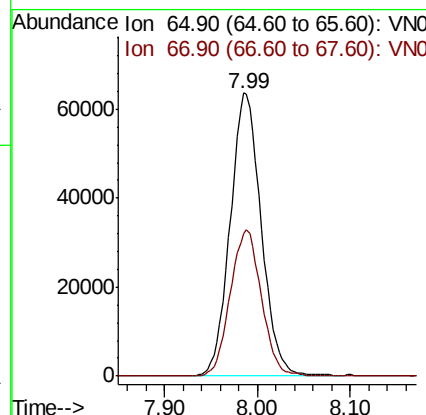
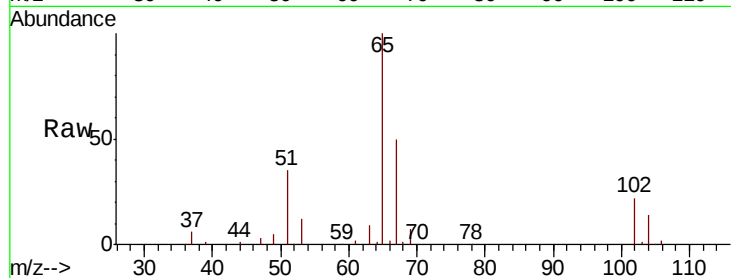




#33
 1,2-Dichloroethane-d4
 Concen: 49.985 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

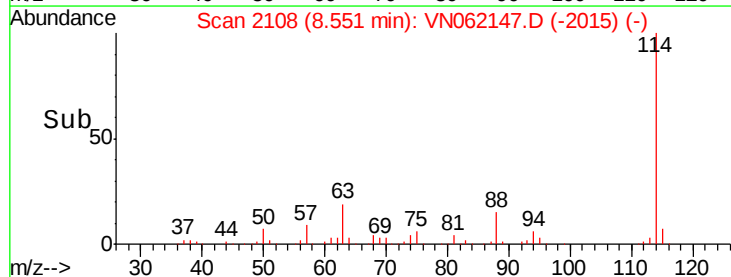
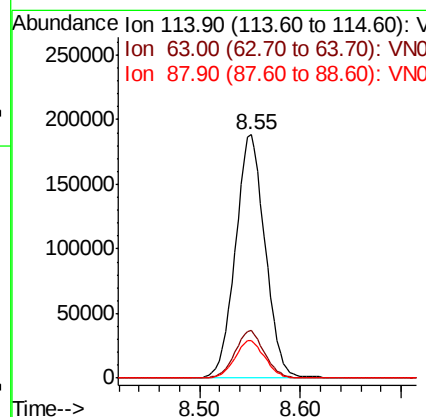
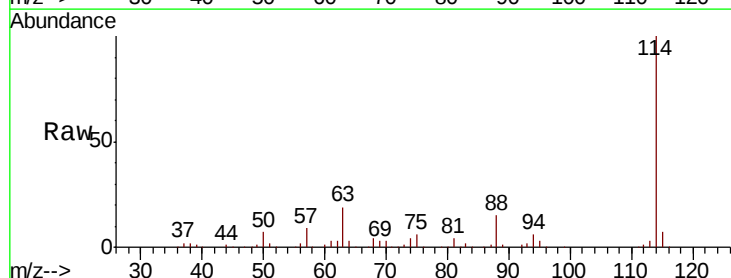
Instrument :
 MSVOA_N
 ClientSampleId :
 04BR-20200625

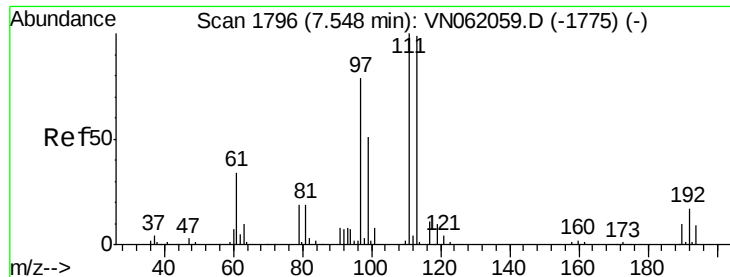
Tot Ion: 65 Resp: 147578
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

Tgt Ion: 114 Resp: 384927
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.3 0.0 30.8

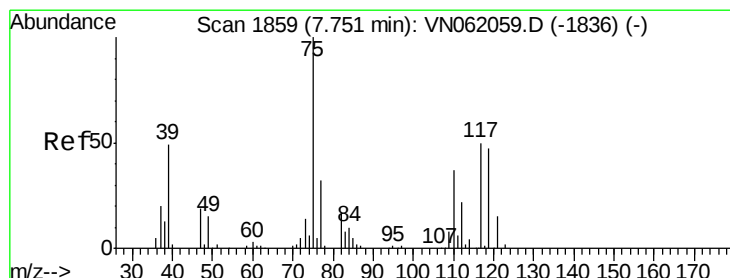
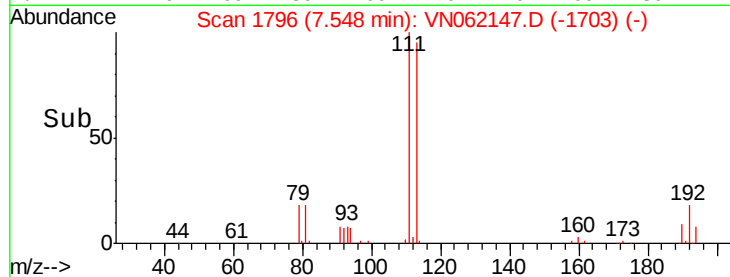
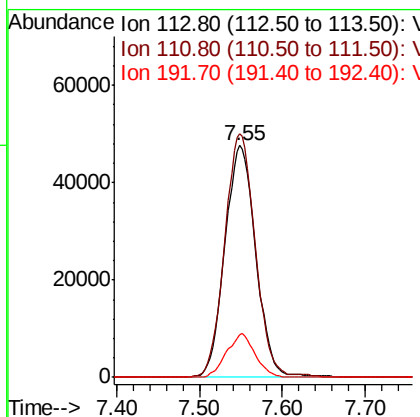
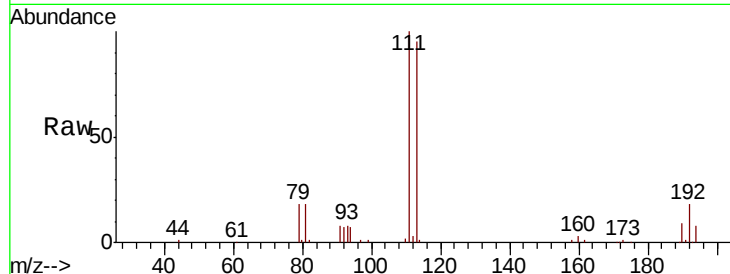




#35
 Dibromofluoromethane
 Concen: 50.054 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

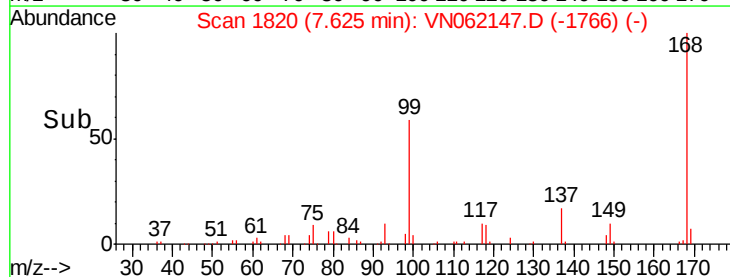
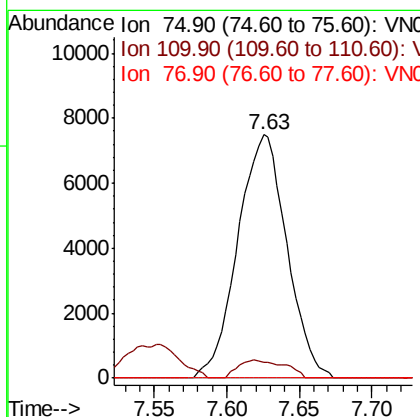
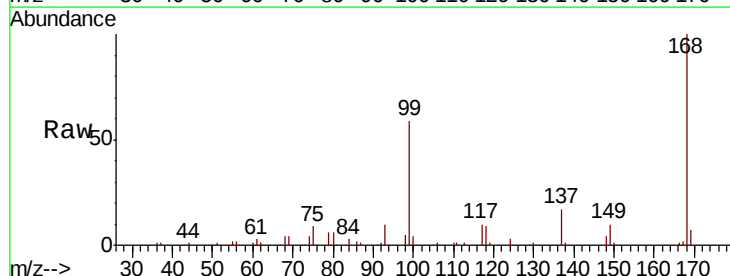
Instrument :
 MSVOA_N
 ClientSampleId :
 04BR-20200625

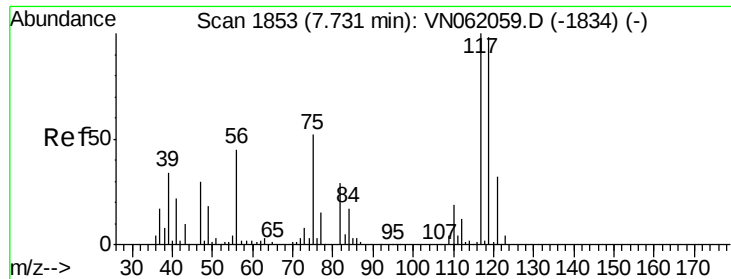
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	17.4	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.548 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.1	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.829 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

04BR-20200625

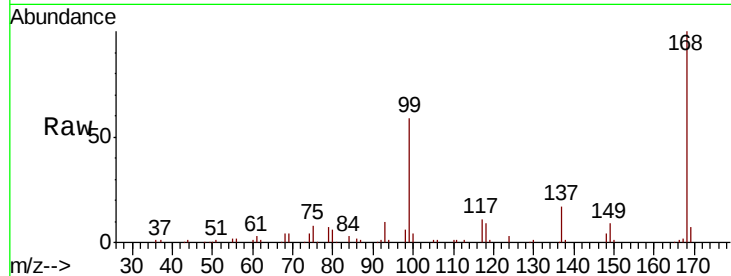
Tot Ion:117 Resp: 21263

Ion Ratio Lower Upper

117 100

119 6.4 78.2 117.2#

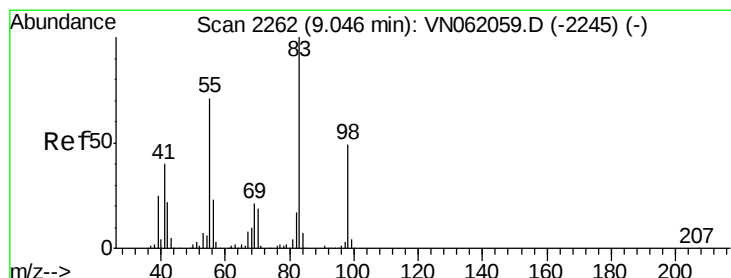
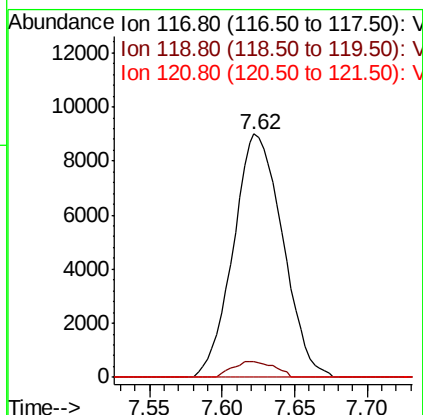
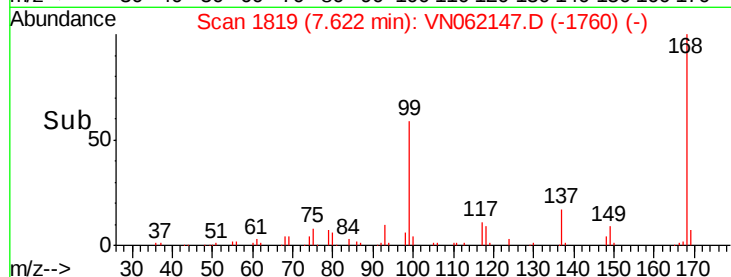
121 0.0 25.8 38.6#



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



#39

Methylcyclohexane

Concen: 7.394 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

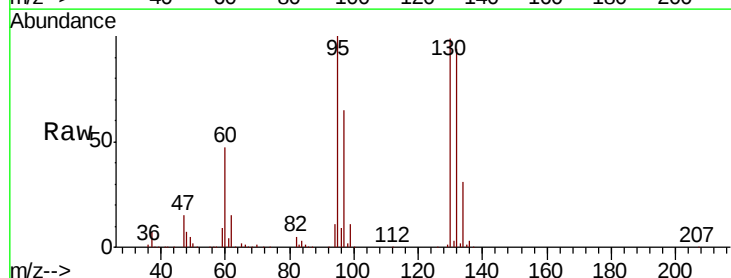
Tgt Ion: 83 Resp: 31345

Ion Ratio Lower Upper

83 100

55 1.5 57.0 85.6#

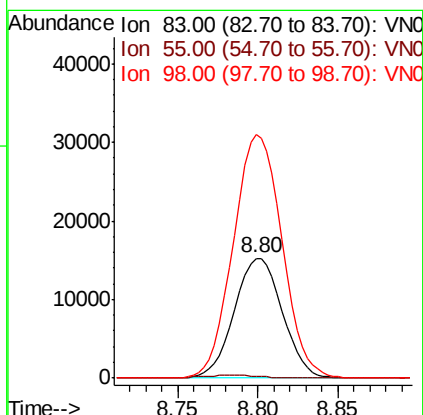
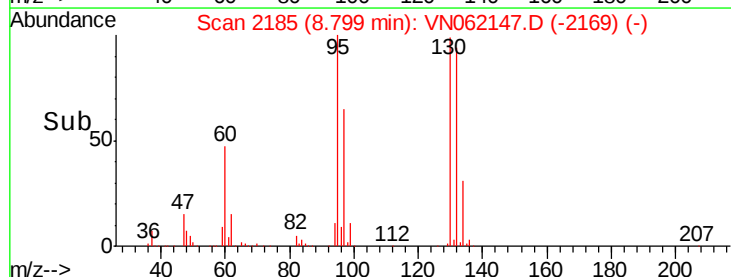
98 202.0 39.0 58.6#

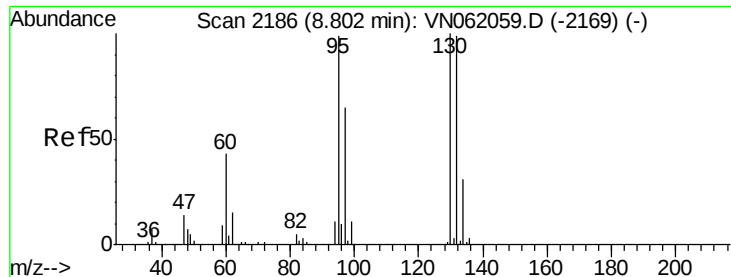


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

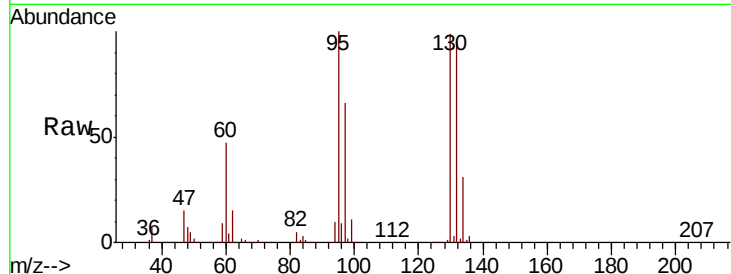




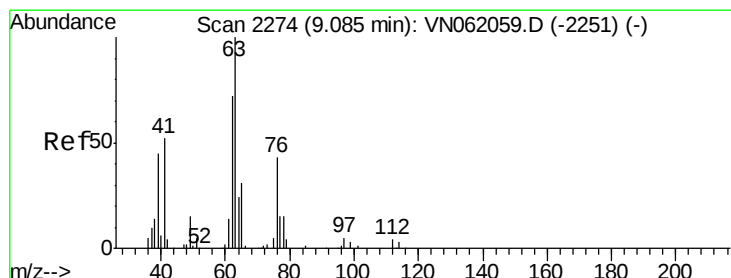
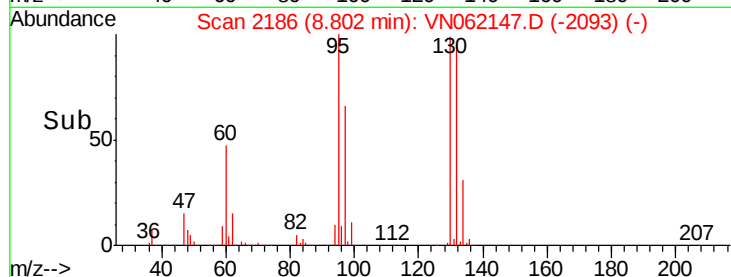
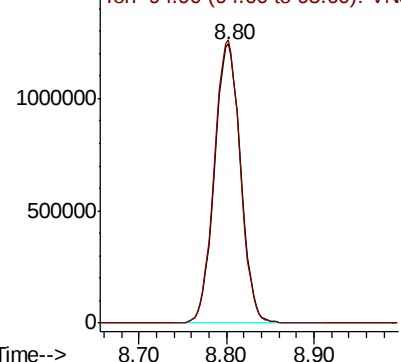
#44
 Trichloroethene
 Concen: 866.980 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

Instrument :
 MSVOA_N
 ClientSampleId :
 04BR-20200625

Tot Ion:130 Resp: 2579076
 Ion Ratio Lower Upper
 130 100
 95 101.3 0.0 197.8

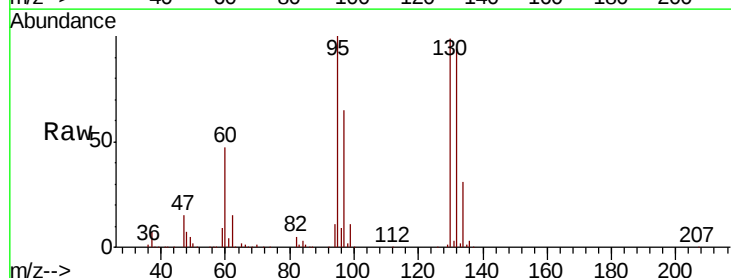


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN0

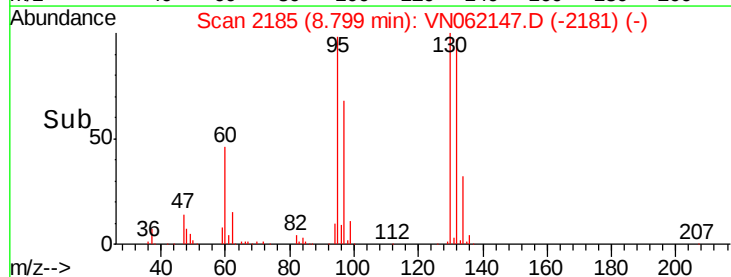
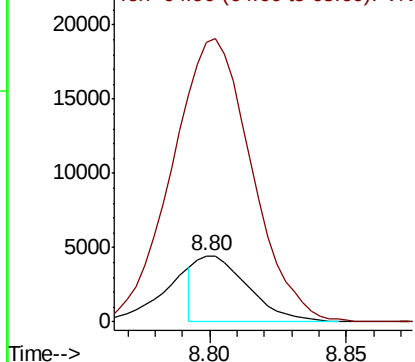


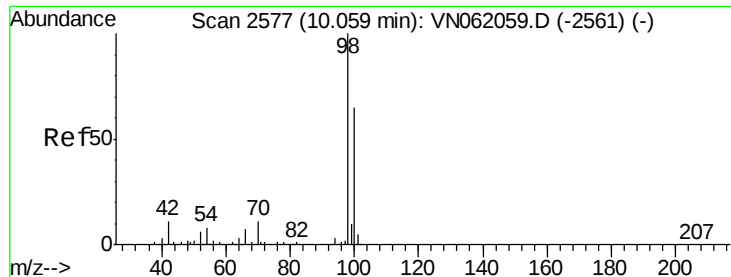
#45
 1,2-Dichloropropane
 Concen: 2.028 ug/l
 RT: 8.80 min Scan# 2185
 Delta R.T. -0.29 min
 Lab File: VN062147.D
 Acq: 26 Jun 2020 18:14

Tgt Ion: 63 Resp: 5901
 Ion Ratio Lower Upper
 63 100
 65 416.8 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 64.90 (64.60 to 65.60): VN0





#50

Toluene-d8

Concen: 50.113 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

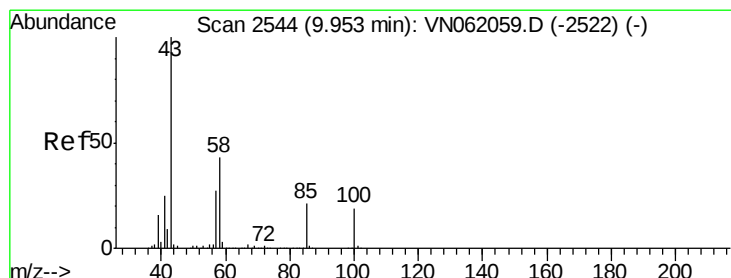
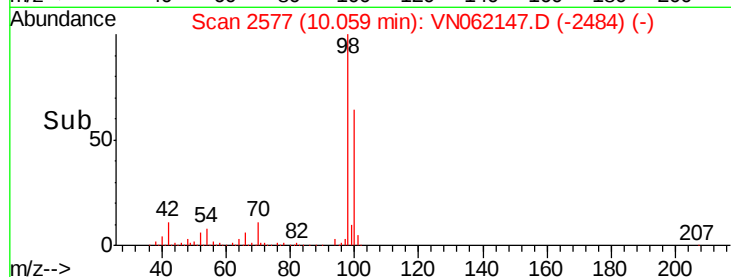
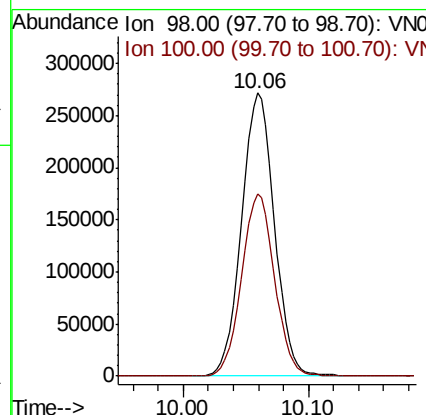
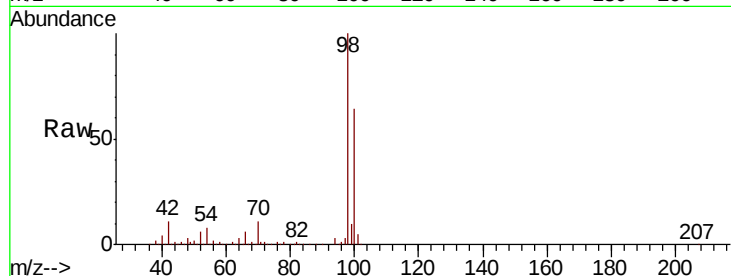
04BR-20200625

Tot Ion: 98 Resp: 494689

Ion Ratio Lower Upper

98 100

100 64.7 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.656 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062147.D

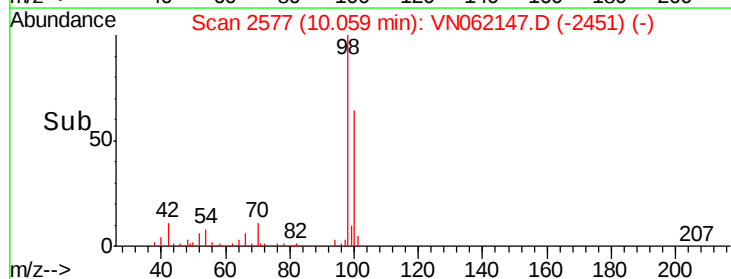
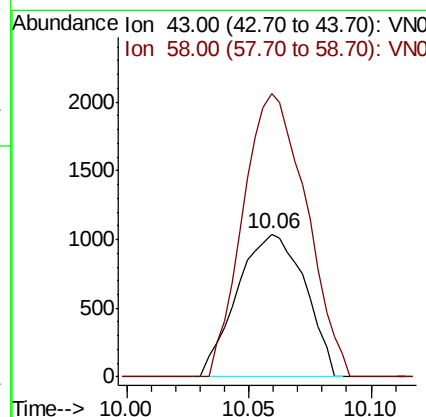
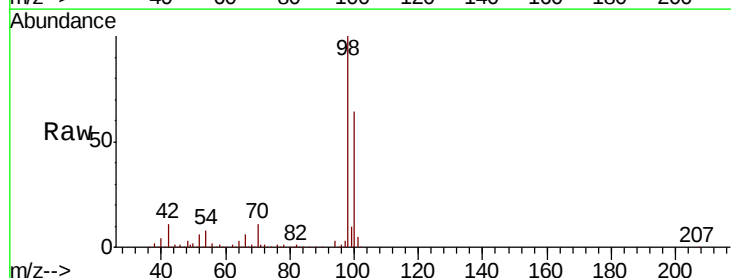
Acq: 26 Jun 2020 18:14

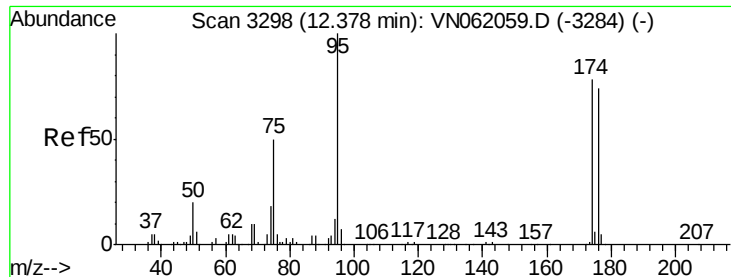
Tgt Ion: 43 Resp: 2003

Ion Ratio Lower Upper

43 100

58 185.1 34.2 51.2#

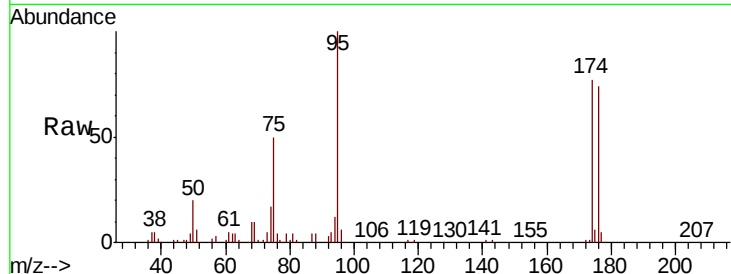




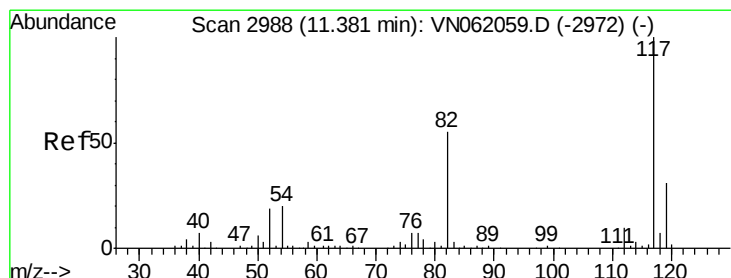
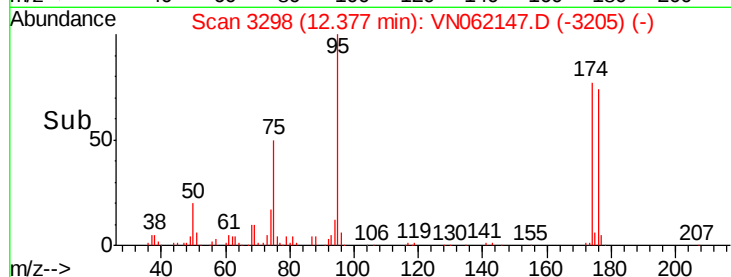
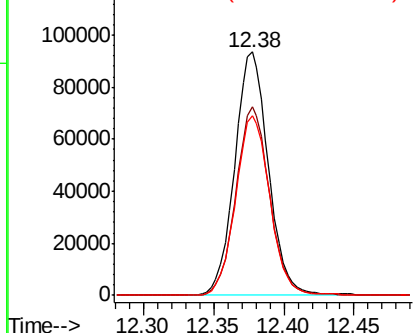
#62
4-Bromofluorobenzene
Concen: 46.918 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062147.D
Acq: 26 Jun 2020 18:14

Instrument :
MSVOA_N
ClientSampleId :
04BR-20200625

Tot Ion: 95 Resp: 156478
Ion Ratio Lower Upper
95 100
174 77.7 0.0 154.8
176 75.2 0.0 147.4

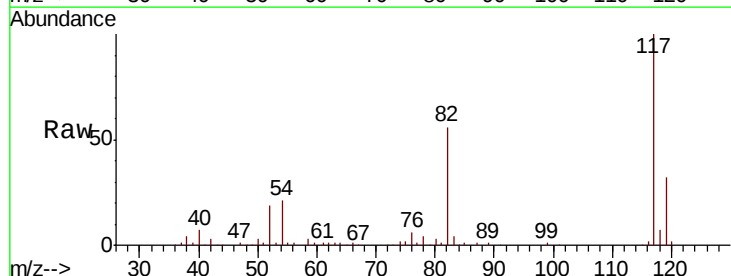


Abundance Ion 94.90 (94.60 to 95.60): VN062147.D (-3298) (-)
Ion 173.80 (173.50 to 174.50): VN062147.D (-3298) (-)
Ion 175.80 (175.50 to 176.50): VN062147.D (-3298) (-)

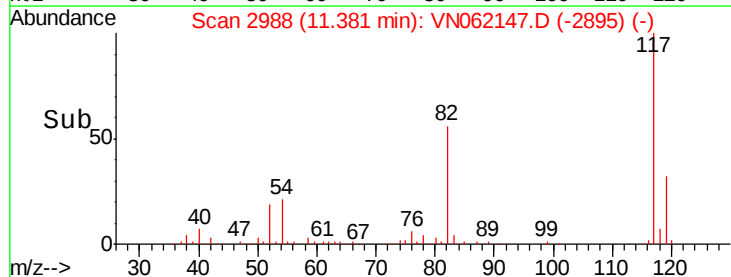
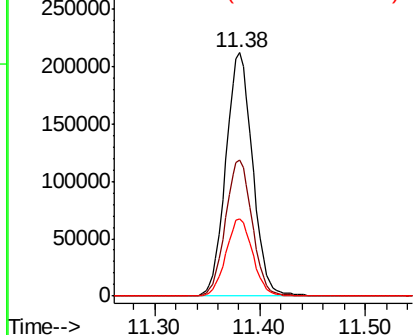


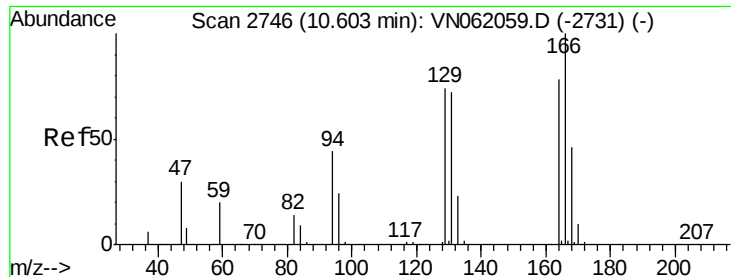
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062147.D
Acq: 26 Jun 2020 18:14

Tgt Ion: 117 Resp: 372202
Ion Ratio Lower Upper
117 100
82 55.7 43.8 65.8
119 31.8 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062147.D (-2988) (-)
Ion 82.00 (81.70 to 82.70): VN062147.D (-2988) (-)
Ion 118.90 (118.60 to 119.60): VN062147.D (-2988) (-)

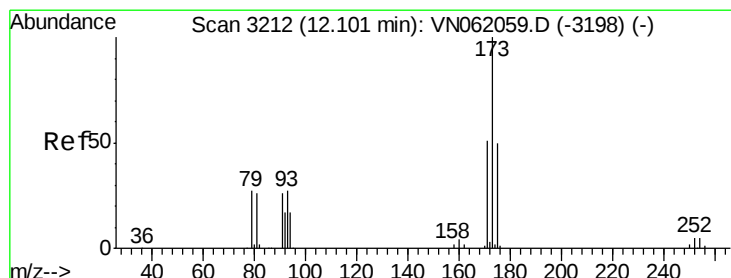
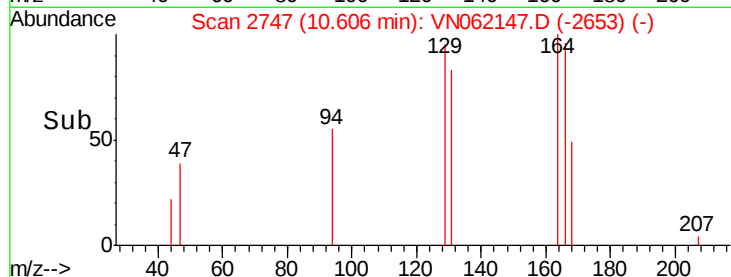
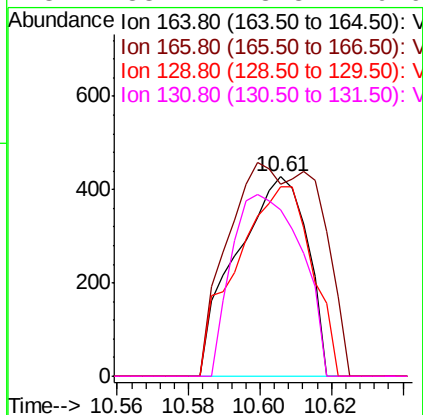
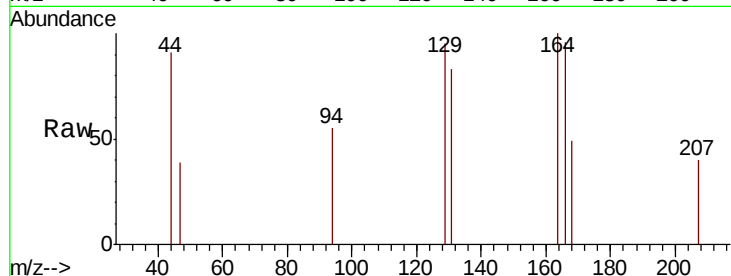




#64
Tetrachloroethene
Concen: 0.230 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. 0.00 min
Lab File: VN062147.D
Acq: 26 Jun 2020 18:14

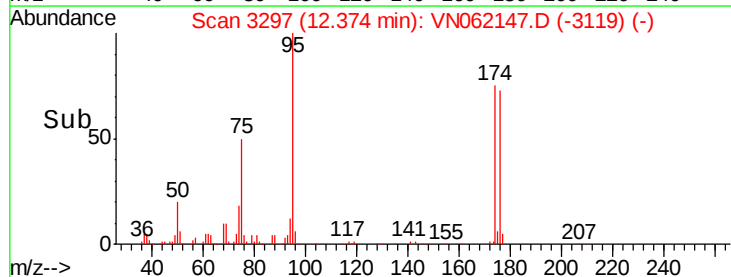
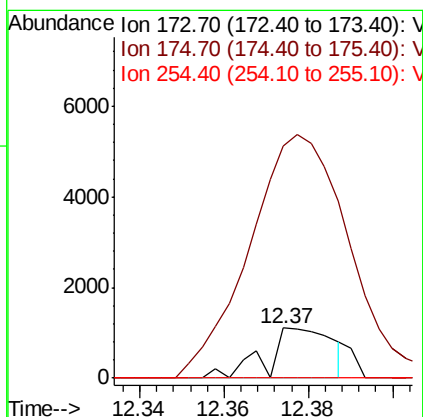
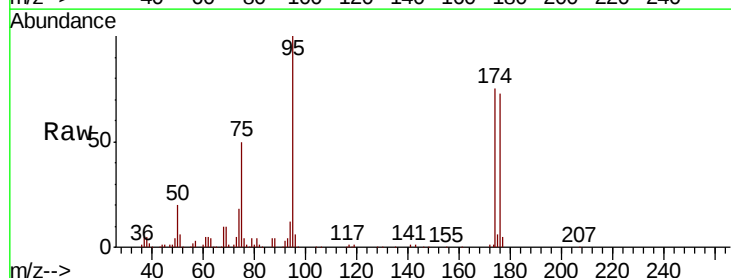
Instrument :
MSVOA_N
ClientSampleId :
04BR-20200625

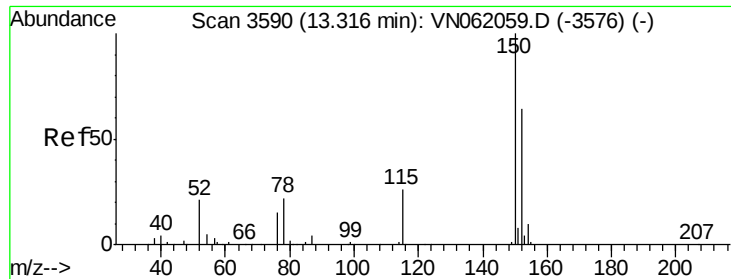
Tot Ion:164 Resp: 585
Ion Ratio Lower Upper
164 100
166 96.3 102.9 154.3#
129 95.1 75.8 113.8
131 83.4 73.8 110.6



#71
Bromoform
Concen: 0.597 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062147.D
Acq: 26 Jun 2020 18:14

Tgt Ion:173 Resp: 1199
Ion Ratio Lower Upper
173 100
175 616.0 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: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

04BR-20200625

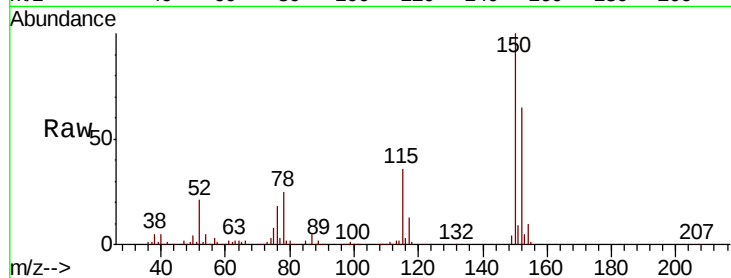
Tot Ion:152 Resp: 135645

Ion Ratio Lower Upper

152 100

115 58.0 29.5 88.5

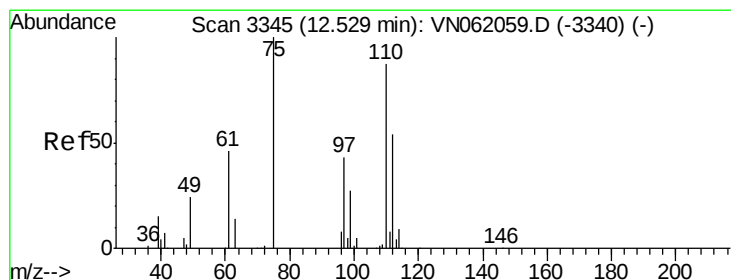
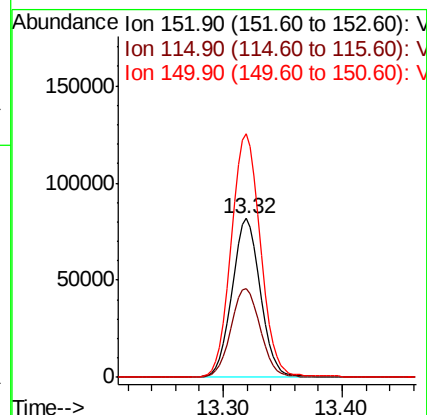
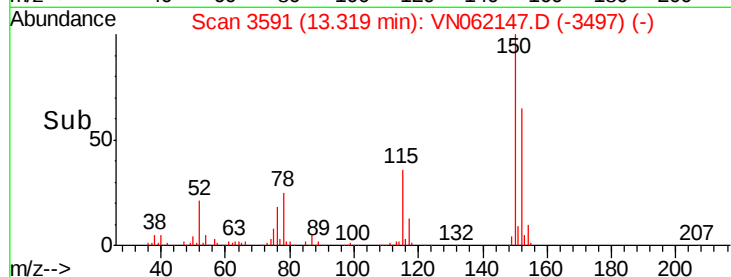
150 158.2 0.0 351.4



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: 24.822 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062147.D

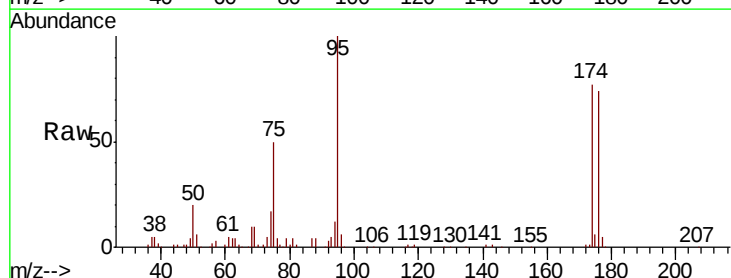
Acq: 26 Jun 2020 18:14

Tgt Ion: 75 Resp: 79260

Ion Ratio Lower Upper

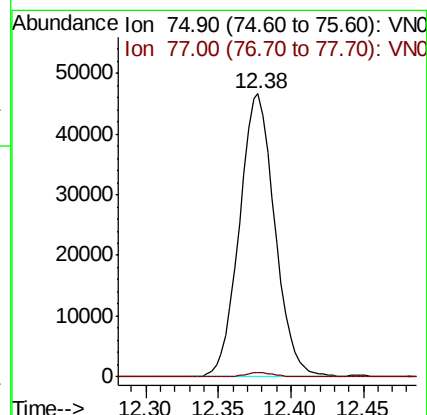
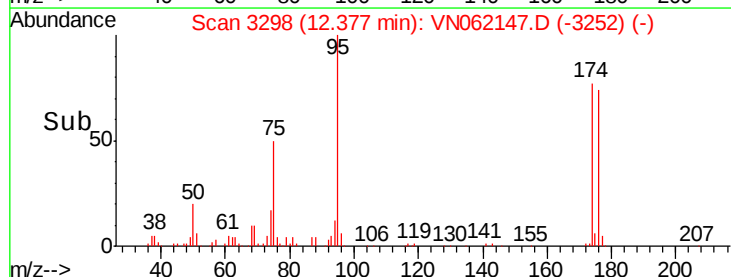
75 100

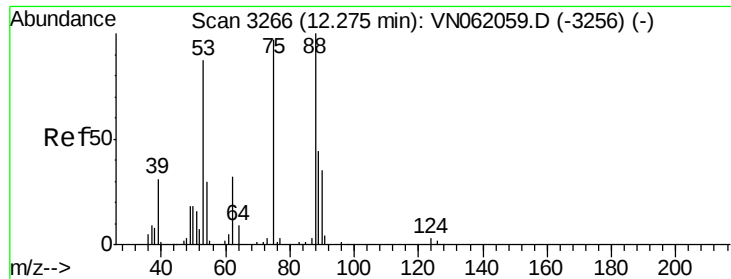
77 1.1 0.0 0.0#



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: 72.488 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062147.D

Acq: 26 Jun 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

04BR-20200625

Tot Ion: 75 Resp: 79260

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

