

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062194.D
 Acq On : 29 Jun 2020 17:43
 Operator : JC/MD
 Sample : L3088-05DL 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 29BR-20200622DL

Quant Time: Jun 30 04:27:54 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

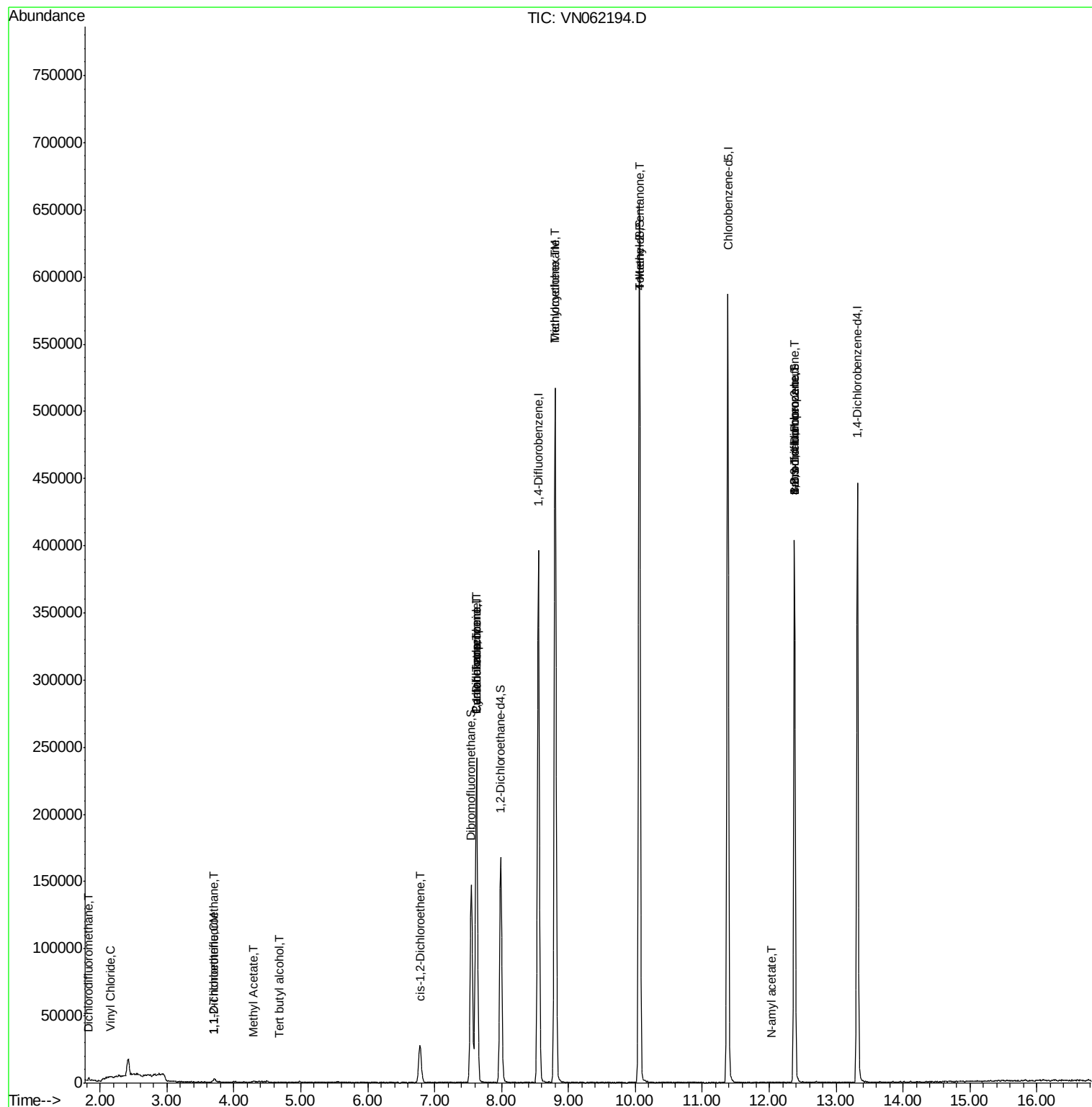
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	188906	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	357621	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	117195	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	140361	52.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.90%	
35) Dibromofluoromethane	7.55	113	115852	50.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.00%	
50) Toluene-d8	10.06	98	451820	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.38	95	141728	45.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	1617	0.757	ug/l	87
3) Chloromethane	2.04	50	237	Below Cal	#	41
4) Vinyl Chloride	2.16	62	789	0.235	ug/l #	73
9) 1,1,2-Trichlorotrifluoroet	3.71	101	845	0.389	ug/l #	43
11) Tert butyl alcohol	4.69	59	107	0.281	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	618	0.285	ug/l	83
16) Acetone	3.76	43	217	Below Cal	#	40
18) Methyl Acetate	4.29	43	522	0.248	ug/l #	46
20) Methylene Chloride	4.51	84	314	Below Cal	#	39
27) cis-1,2-Dichloroethene	6.79	96	18222	6.553	ug/l	91
31) Cyclohexane	7.63	56	4912	1.341	ug/l #	24
36) 1,1-Dichloropropene	7.63	75	16299	4.534	ug/l #	49
38) Carbon Tetrachloride	7.63	117	19551	5.769	ug/l #	16
39) Methylcyclohexane	8.81	83	2742	0.696	ug/l #	1
44) Trichloroethene	8.80	130	187746	67.931	ug/l	98
51) 4-Methyl-2-Pentanone	10.06	43	1907	0.673	ug/l #	1
71) Bromoform	12.37	173	1318	0.714	ug/l #	1
74) N-amyl acetate	12.03	43	32	3.352	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	72574	26.306	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	72574	76.823	ug/l #	13

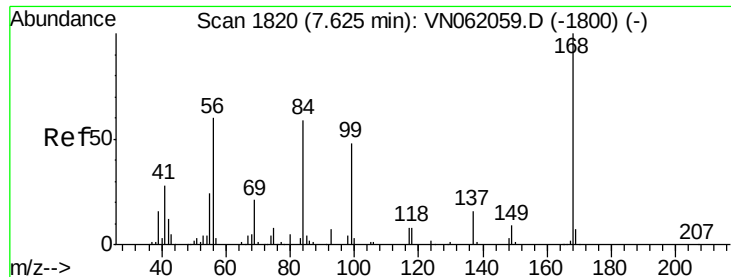
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
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: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

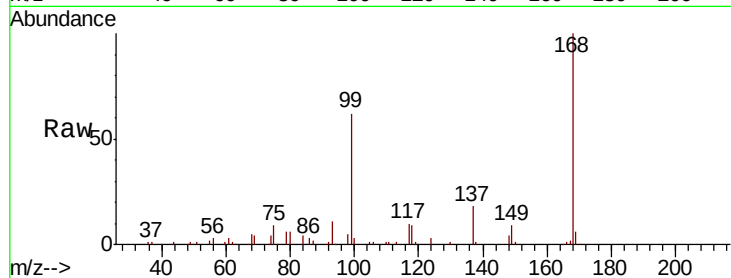
29BR-20200622DL

Tot Ion:168 Resp: 188906

Ion Ratio Lower Upper

168 100

99 62.3 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

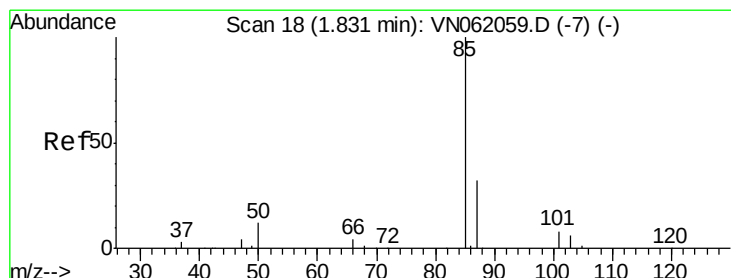
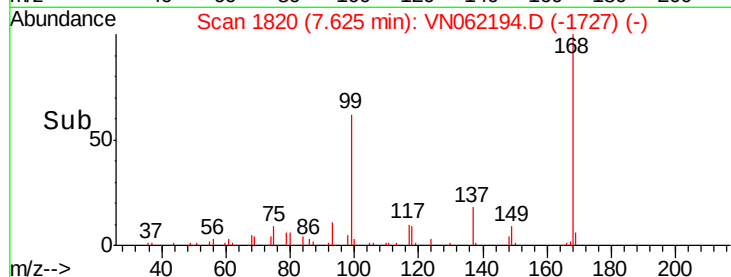
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 0.757 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN062194.D

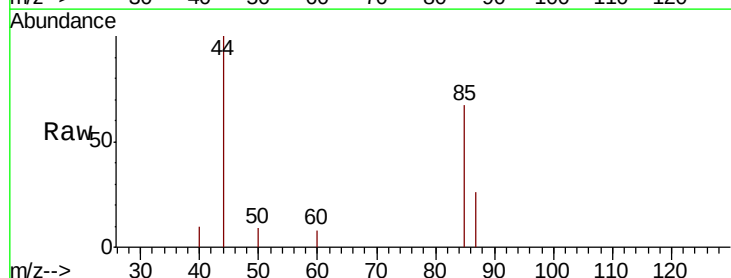
Acq: 29 Jun 2020 17:43

Tgt Ion: 85 Resp: 1617

Ion Ratio Lower Upper

85 100

87 39.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

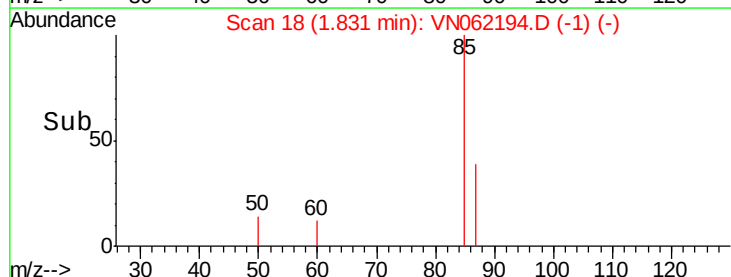
1.83

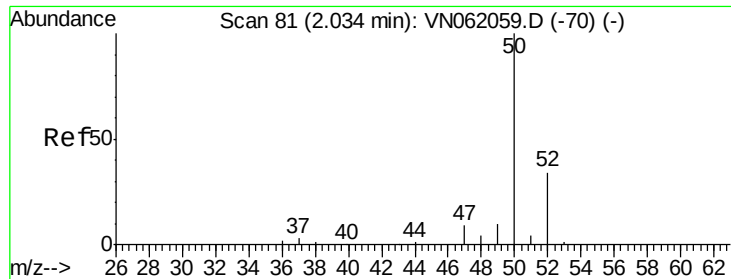
1000

500

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

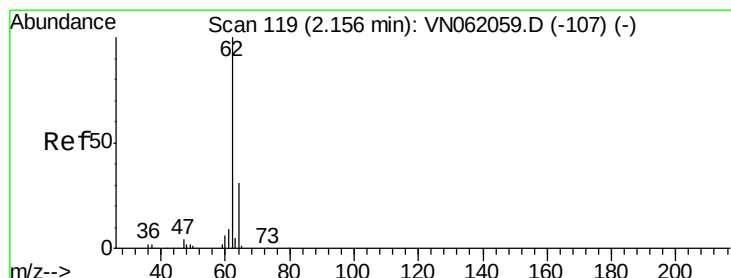
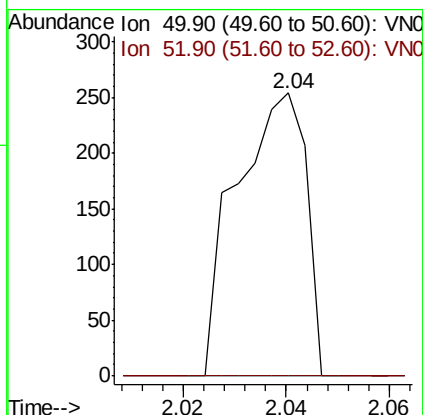
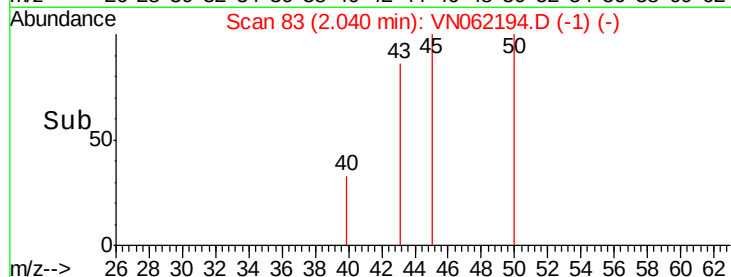
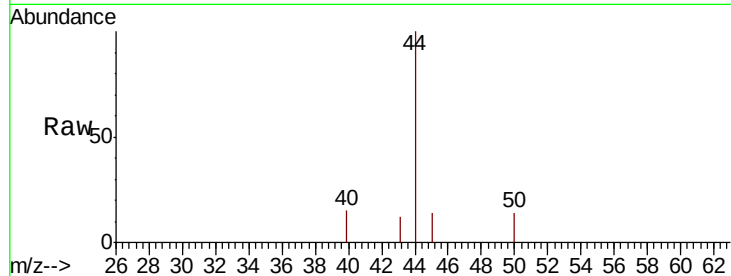
29BR-20200622DL

Tot Ion: 50 Resp: 237

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



#4

Vinyl Chloride

Concen: 0.235 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062194.D

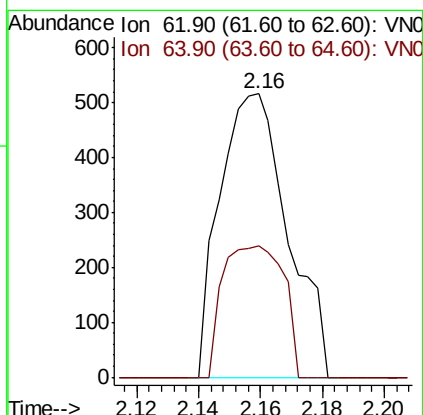
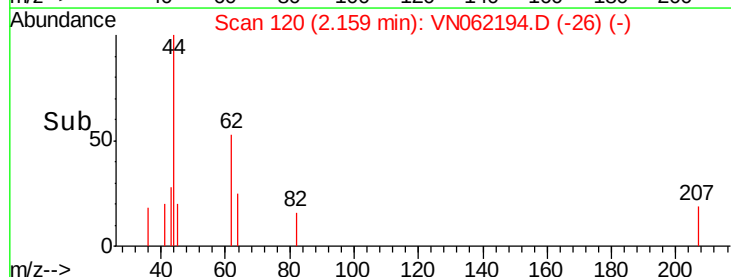
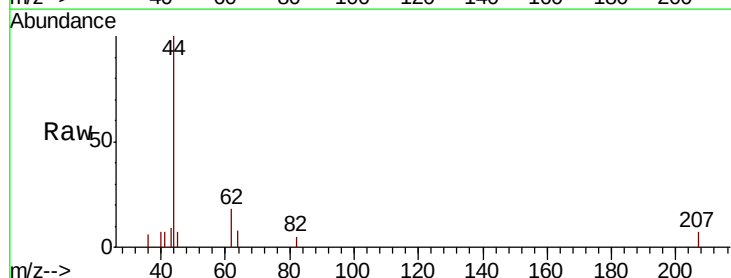
Acq: 29 Jun 2020 17:43

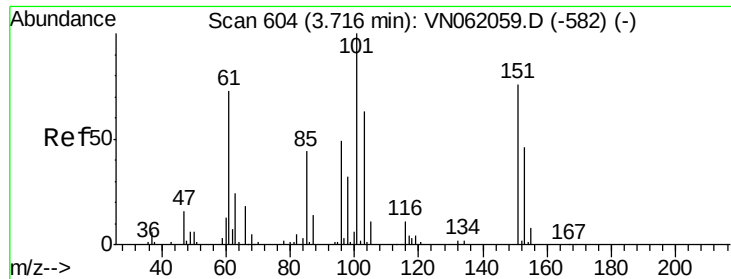
Tgt Ion: 62 Resp: 789

Ion Ratio Lower Upper

62 100

64 46.1 25.1 37.7#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.389 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.01 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

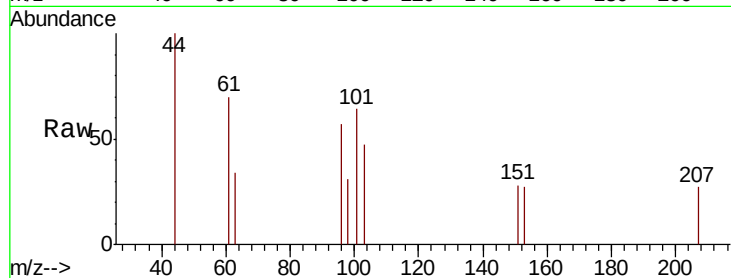
Tot Ion:101 Resp: 845

Ion Ratio Lower Upper

101 100

85 7.3 34.5 51.7#

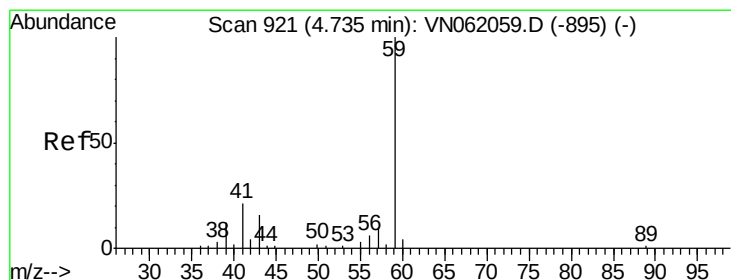
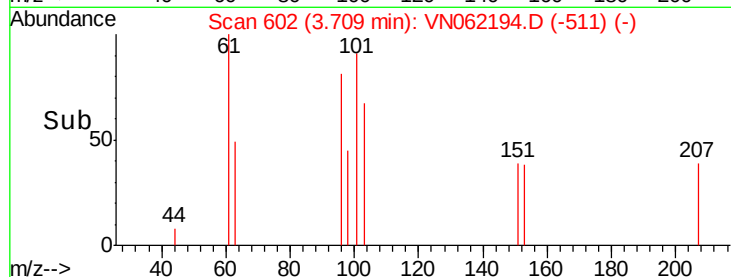
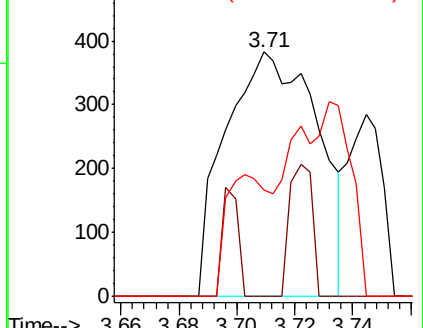
151 23.7 57.8 86.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.281 ug/l

RT: 4.69 min Scan# 906

Delta R.T. -0.05 min

Lab File: VN062194.D

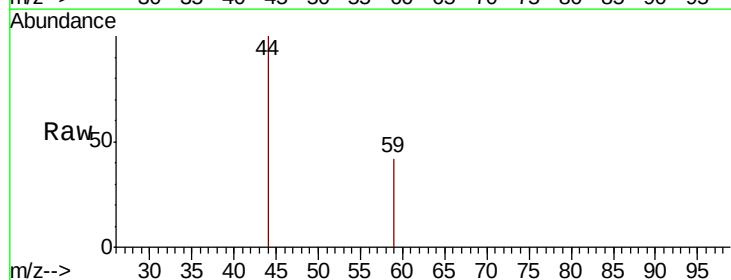
Acq: 29 Jun 2020 17:43

Tgt Ion: 59 Resp: 107

Ion Ratio Lower Upper

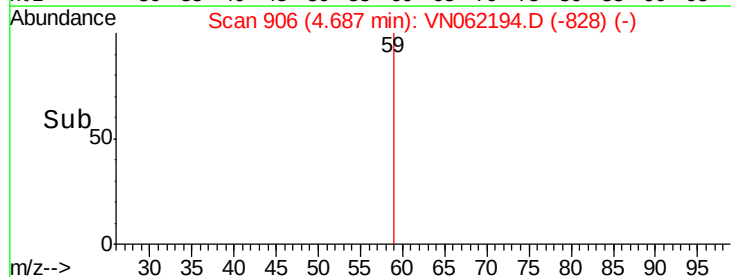
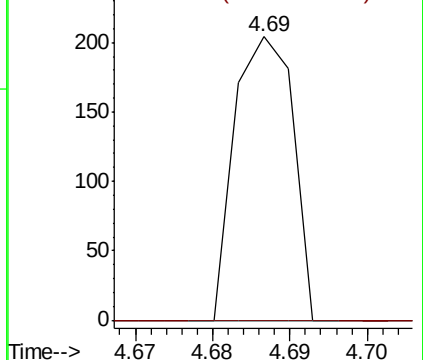
59 100

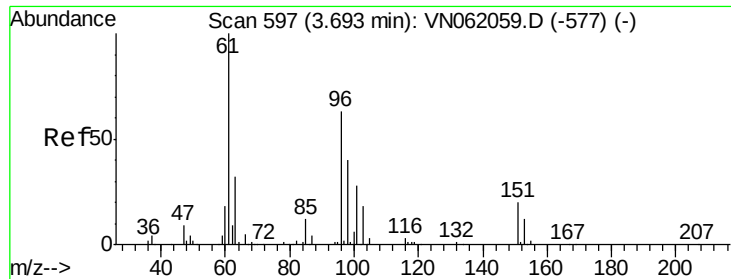
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#12

1,1-Dichloroethene

Concen: 0.285 ug/l

RT: 3.70 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

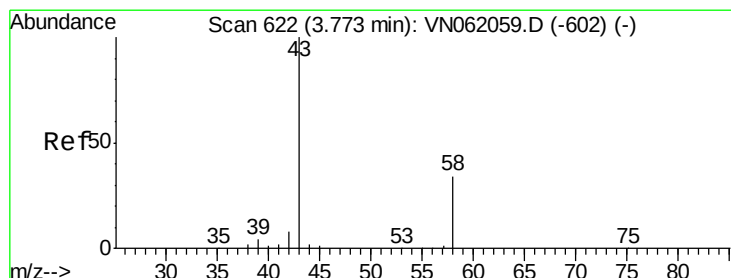
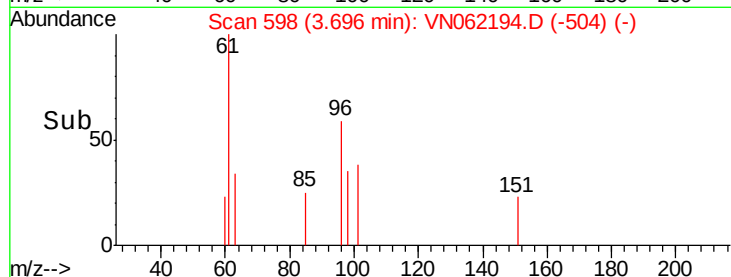
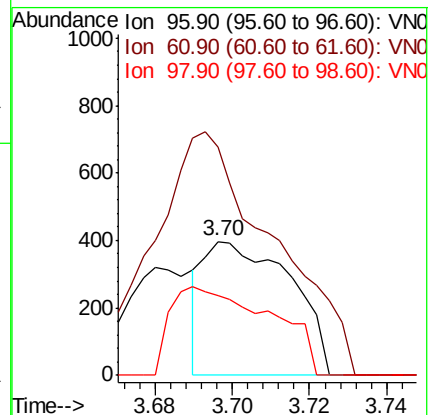
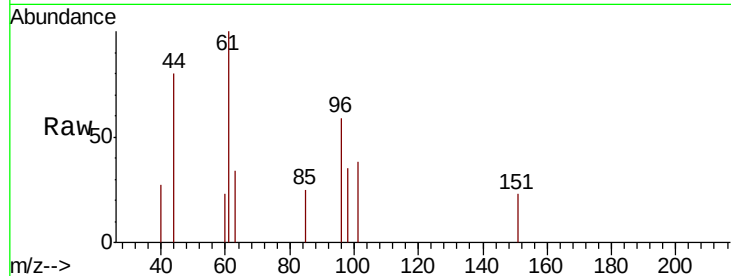
Tot Ion: 96 Resp: 618

Ion Ratio Lower Upper

96 100

61 131.0 126.7 190.1

98 59.2 51.0 76.4



#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 619

Delta R.T. -0.01 min

Lab File: VN062194.D

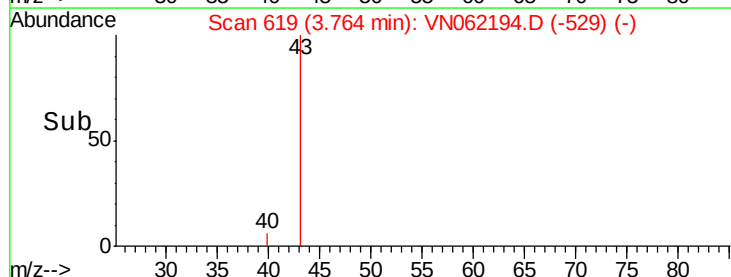
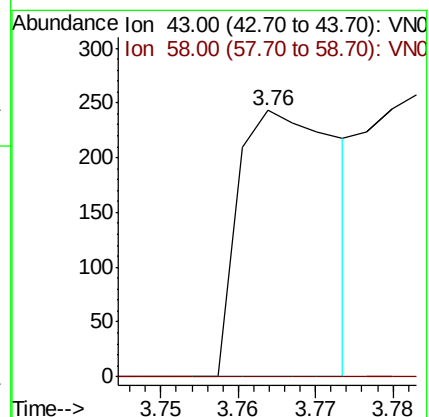
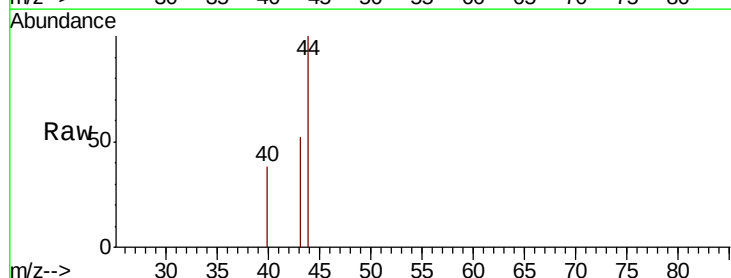
Acq: 29 Jun 2020 17:43

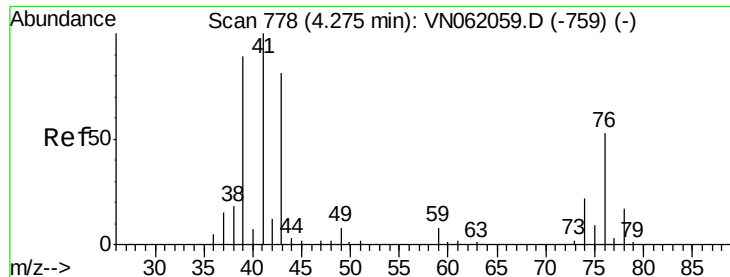
Tgt Ion: 43 Resp: 217

Ion Ratio Lower Upper

43 100

58 0.0 27.5 41.3#

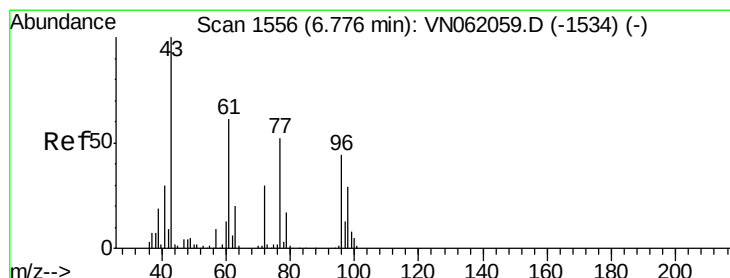
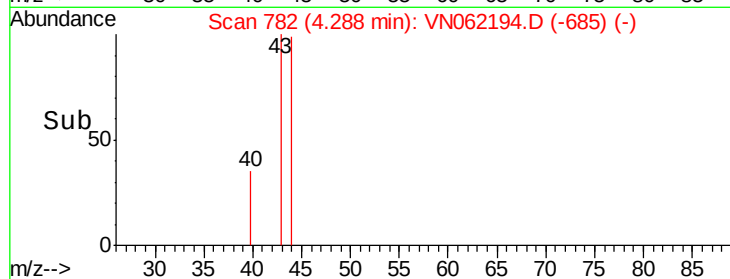
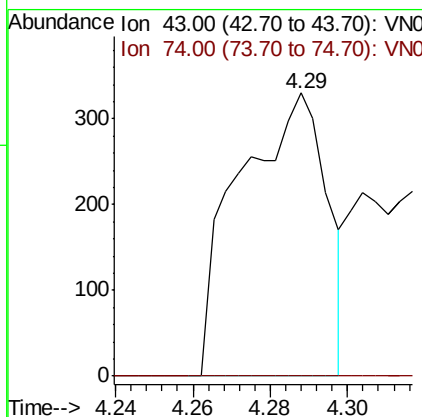
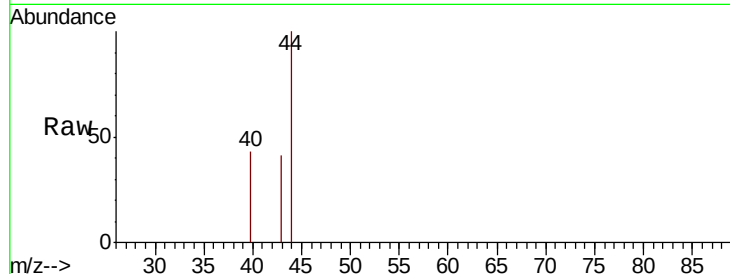




#18
Methyl Acetate
Concen: 0.248 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

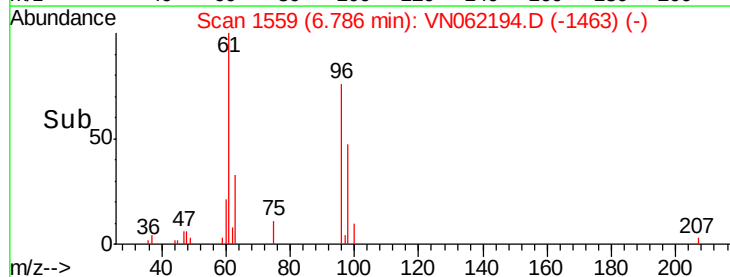
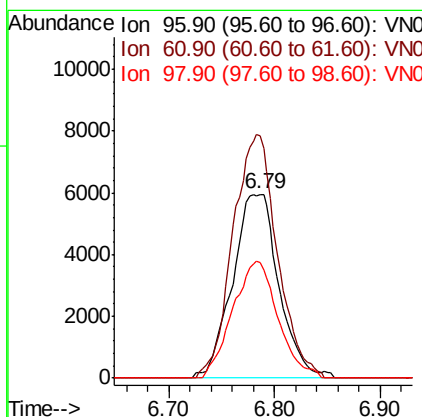
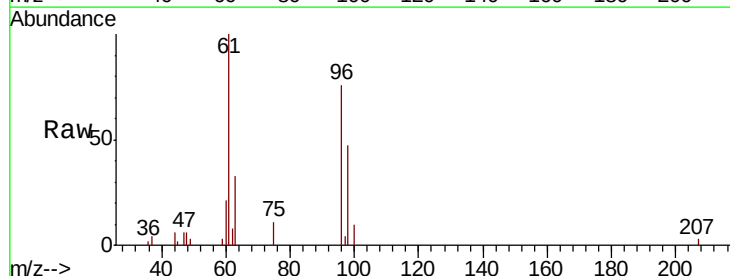
Instrument :
MSVOA_N
ClientSampleId :
29BR-20200622DL

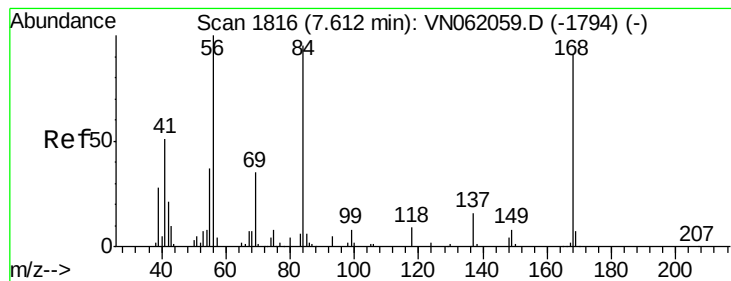
Tot Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
74 0.0 22.9 34.3#



#27
cis-1,2-Dichloroethene
Concen: 6.553 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.01 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Tgt Ion: 96 Resp: 18222
Ion Ratio Lower Upper
96 100
61 126.7 0.0 280.4
98 62.0 0.0 129.4





#31

Cyclohexane

Concen: 1.341 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

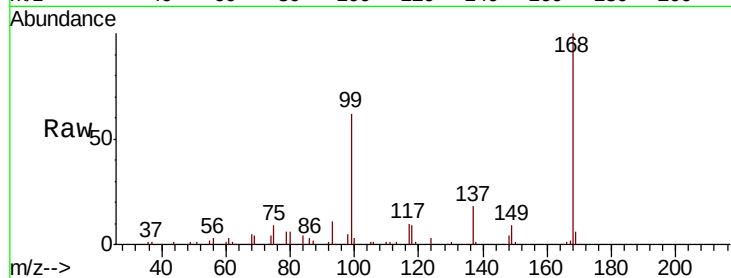
Tot Ion: 56 Resp: 4912

Ion Ratio Lower Upper

56 100

69 139.0 28.0 42.0#

84 132.3 76.1 114.1#

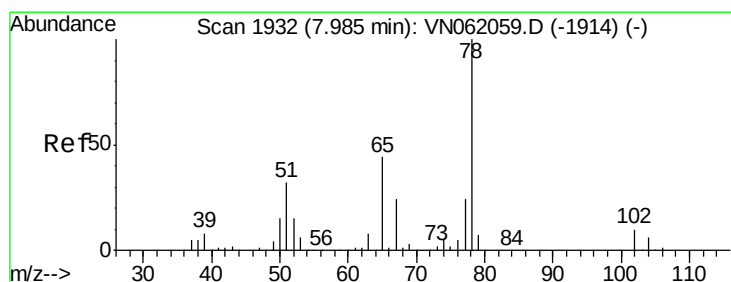
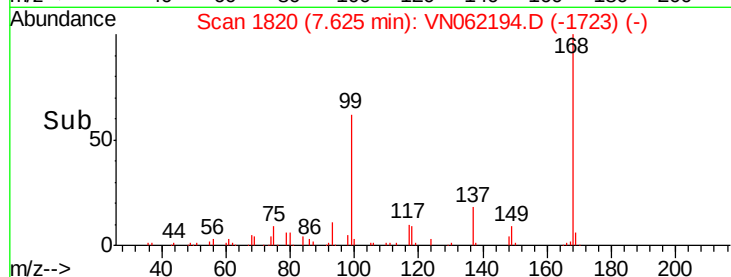
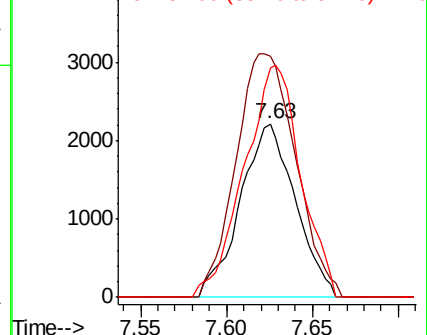


Abundance

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



#33

1,2-Dichloroethane-d4

Concen: 52.947 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062194.D

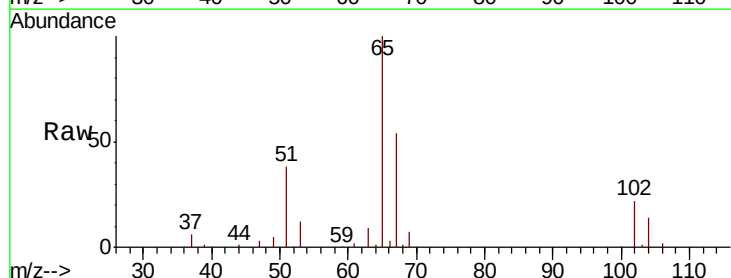
Acq: 29 Jun 2020 17:43

Tgt Ion: 65 Resp: 140361

Ion Ratio Lower Upper

65 100

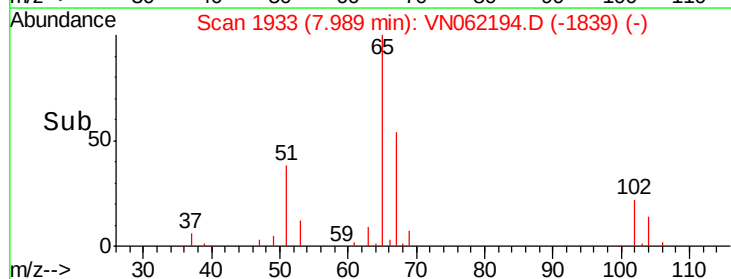
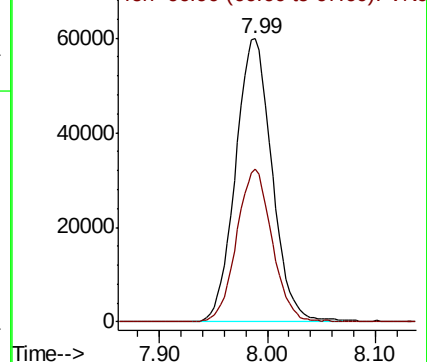
67 52.4 0.0 106.2

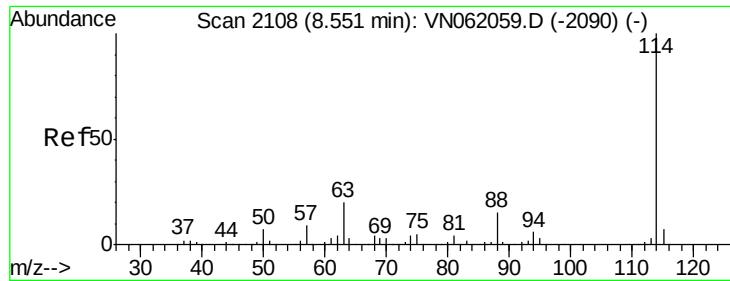


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

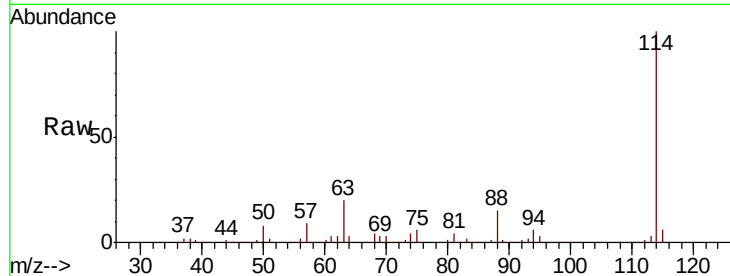




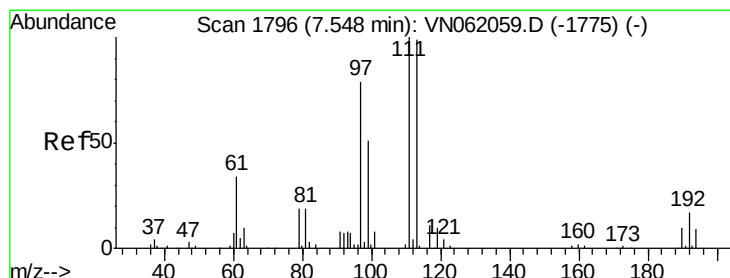
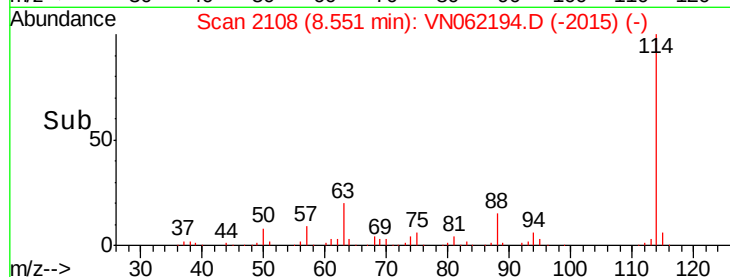
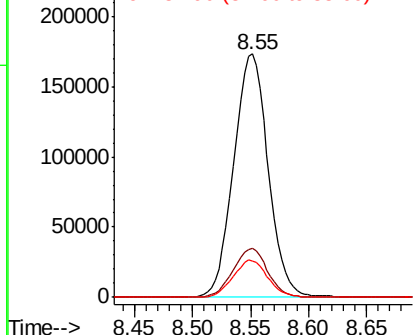
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Instrument :
MSVOA_N
ClientSampleId :
29BR-20200622DL

Tot Ion:114 Resp: 357621
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.2
88 15.1 0.0 30.8

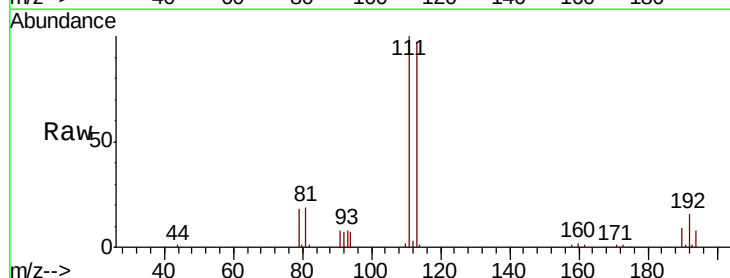


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

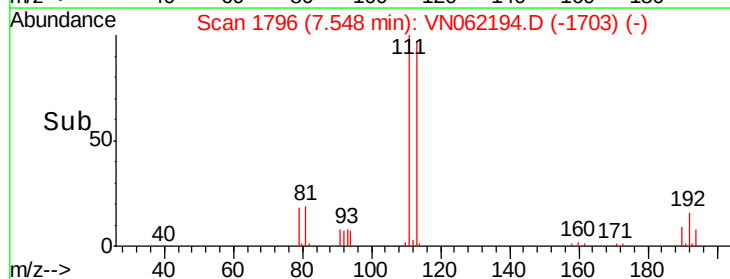
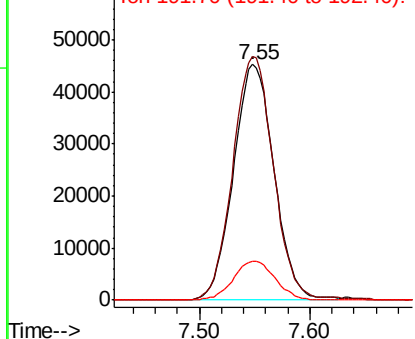


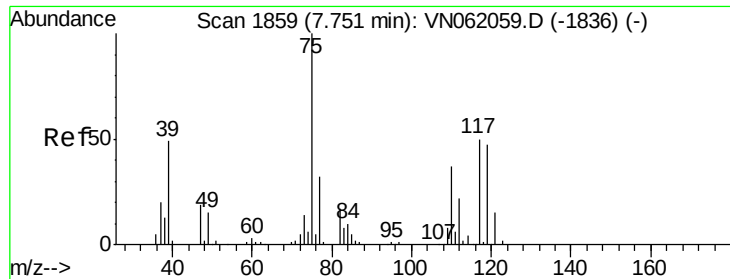
#35
Dibromofluoromethane
Concen: 50.495 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Tgt Ion:113 Resp: 115852
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.4
192 16.9 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: 4.534 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

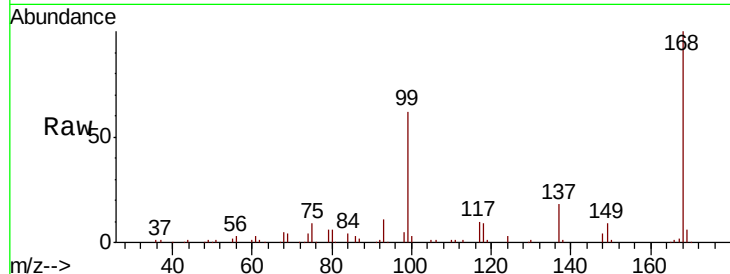
Tot Ion: 75 Resp: 16299

Ion Ratio Lower Upper

75 100

110 8.4 17.9 53.8#

77 0.0 24.9 37.3#

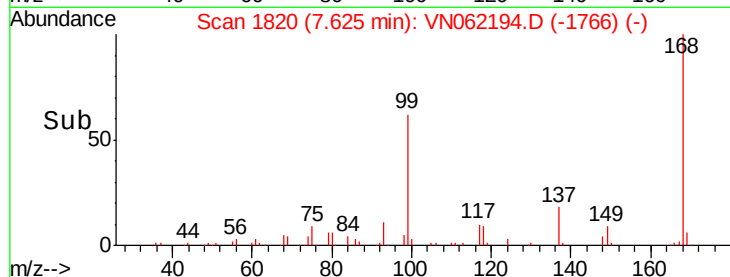


Abundance Ion 74.90 (74.60 to 75.60): VN062194.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062194.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062194.D (-1766) (-)

Time-->

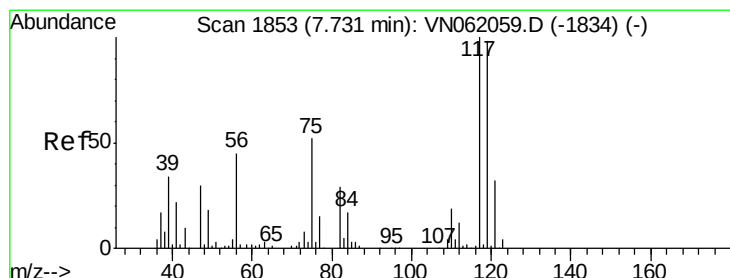


Abundance Ion 74.90 (74.60 to 75.60): VN062194.D (-1766) (-)

Ion 109.90 (109.60 to 110.60): VN062194.D (-1766) (-)

Ion 76.90 (76.60 to 77.60): VN062194.D (-1766) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.769 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

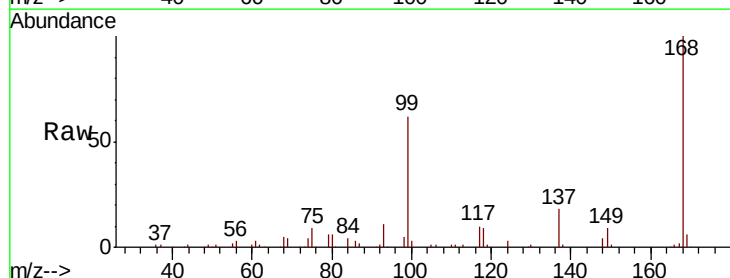
Tgt Ion: 117 Resp: 19551

Ion Ratio Lower Upper

117 100

119 6.8 78.2 117.2#

121 0.0 25.8 38.6#

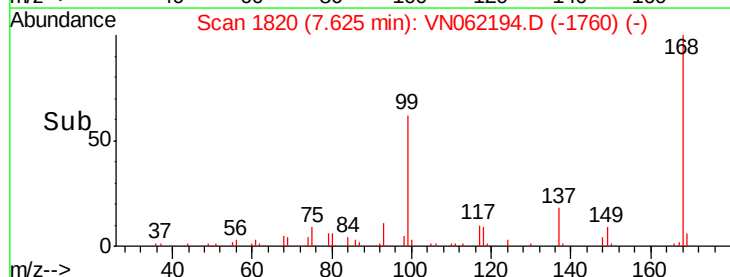


Abundance Ion 116.80 (116.50 to 117.50): VN062194.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062194.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062194.D (-1760) (-)

Time-->

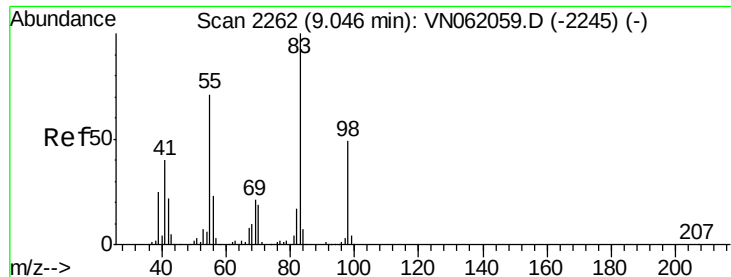


Abundance Ion 116.80 (116.50 to 117.50): VN062194.D (-1760) (-)

Ion 118.80 (118.50 to 119.50): VN062194.D (-1760) (-)

Ion 120.80 (120.50 to 121.50): VN062194.D (-1760) (-)

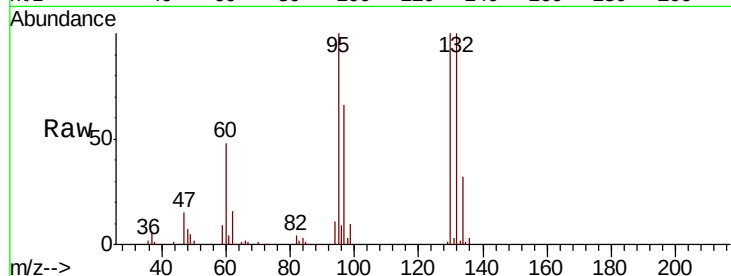
Time-->



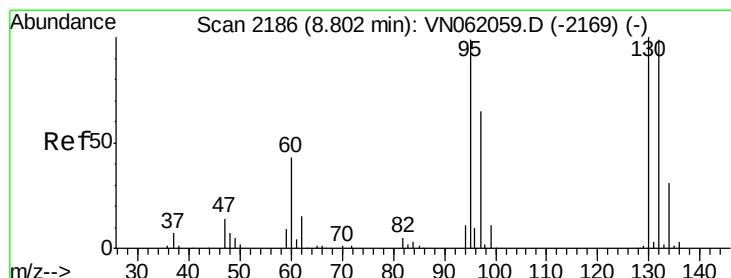
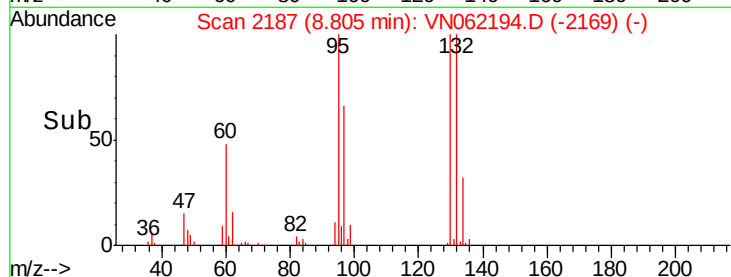
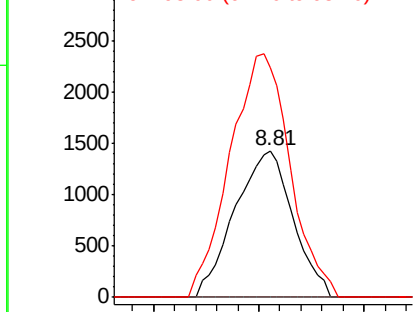
#39
Methylcyclohexane
Concen: 0.696 ug/l
RT: 8.81 min Scan# 2187
Delta R.T. -0.24 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Instrument :
MSVOA_N
ClientSampleId :
29BR-20200622DL

Tot Ion: 83 Resp: 2742
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 156.4 39.0 58.6#

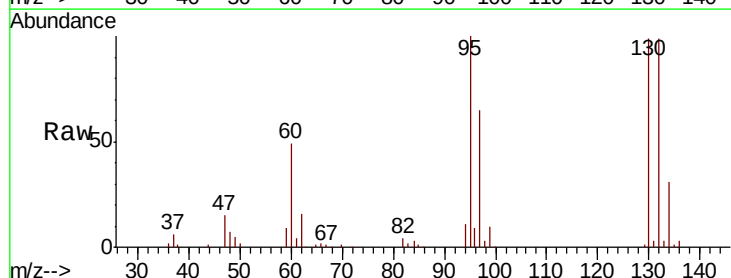


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

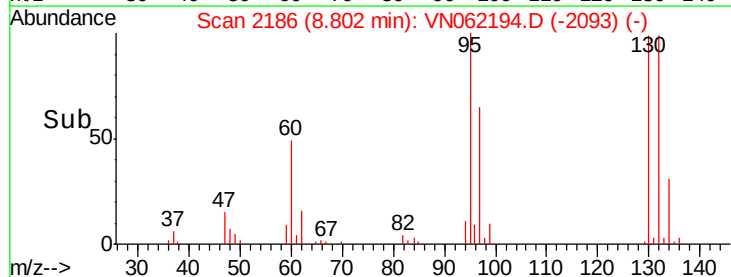
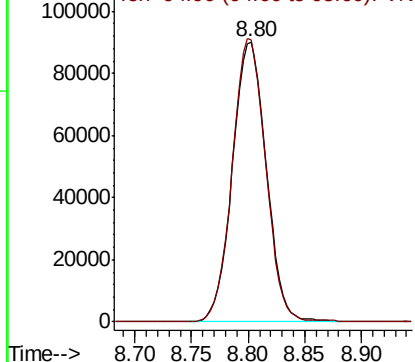


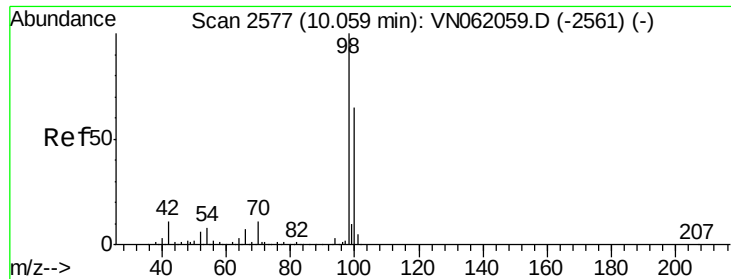
#44
Trichloroethene
Concen: 67.931 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Tgt Ion:130 Resp: 187746
Ion Ratio Lower Upper
130 100
95 100.7 0.0 197.8



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

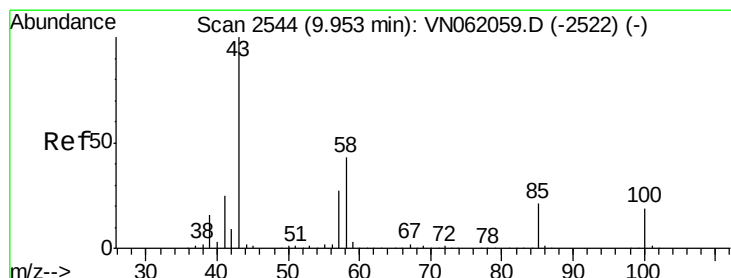
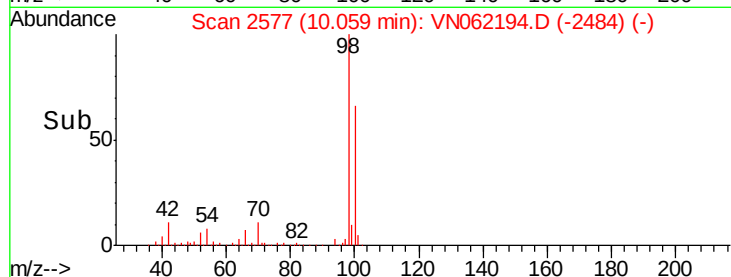
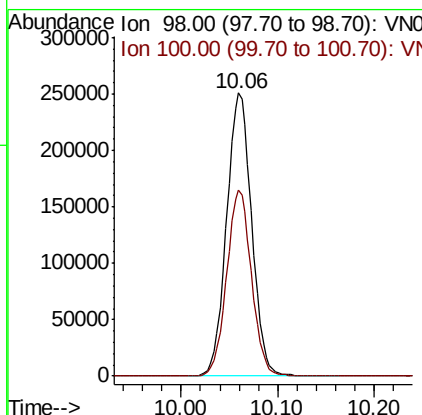
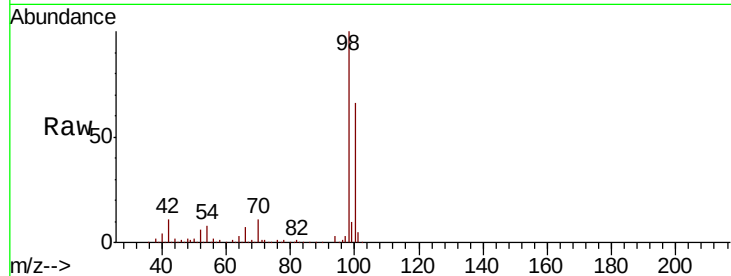




#50
Toluene-d8
Concen: 49.265 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

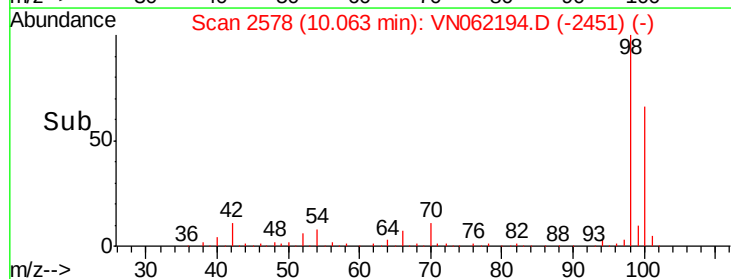
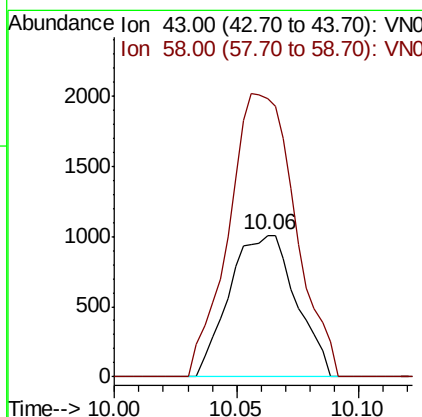
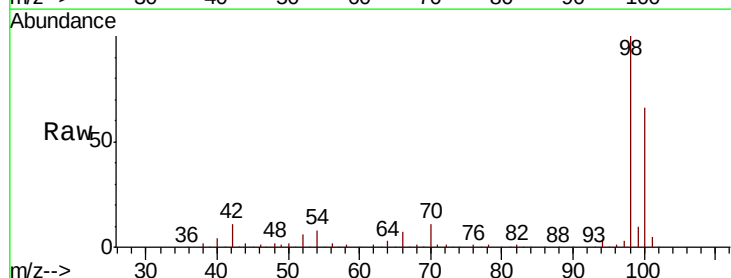
Instrument :
MSVOA_N
ClientSampleId :
29BR-20200622DL

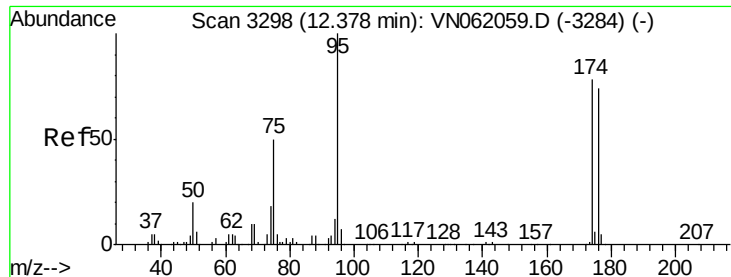
Tot Ion: 98 Resp: 451820
Ion Ratio Lower Upper
98 100
100 65.1 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.673 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.11 min
Lab File: VN062194.D
Acq: 29 Jun 2020 17:43

Tgt Ion: 43 Resp: 1907
Ion Ratio Lower Upper
43 100
58 199.4 34.2 51.2#





#62

4-Bromofluorobenzene

Concen: 45.740 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

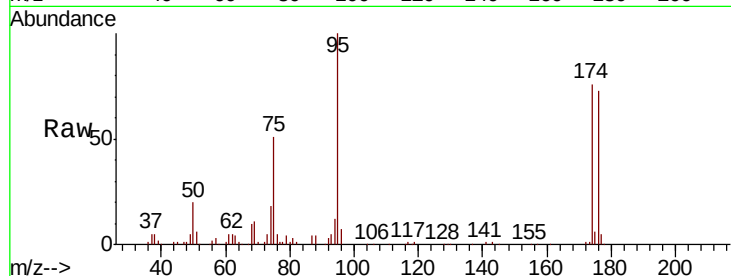
Tot Ion: 95 Resp: 141728

Ion Ratio Lower Upper

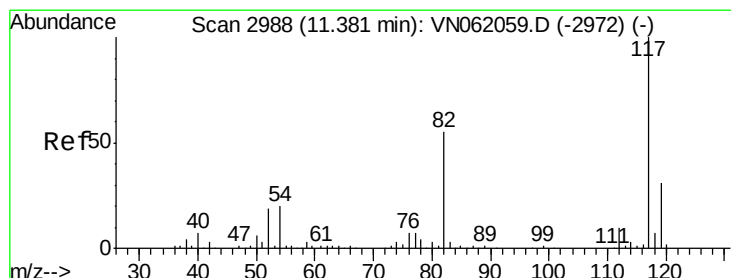
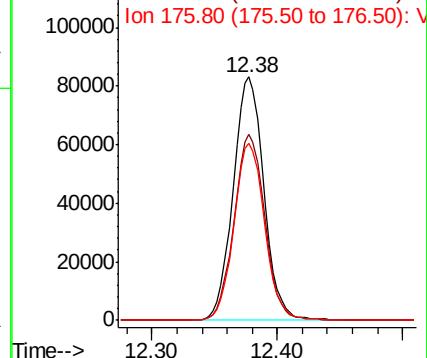
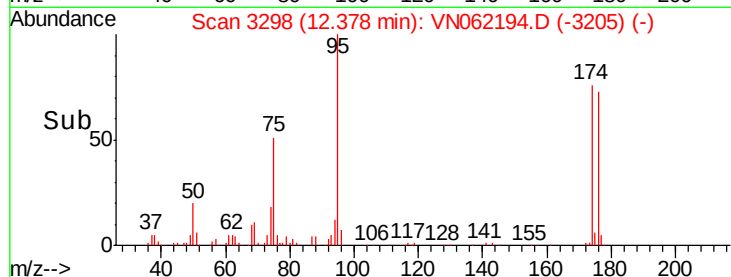
95 100

174 76.2 0.0 154.8

176 72.7 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062194.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

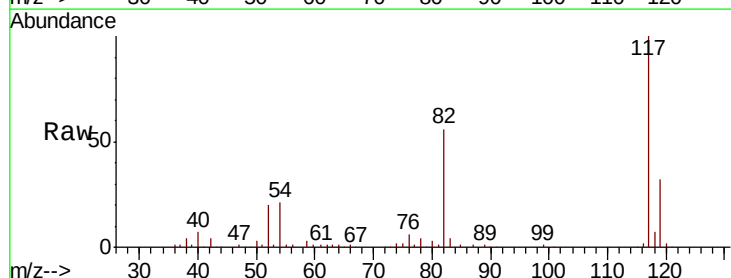
Tgt Ion: 117 Resp: 341797

Ion Ratio Lower Upper

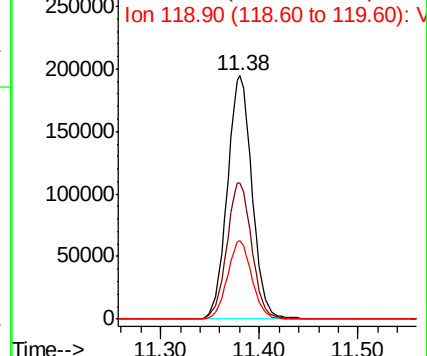
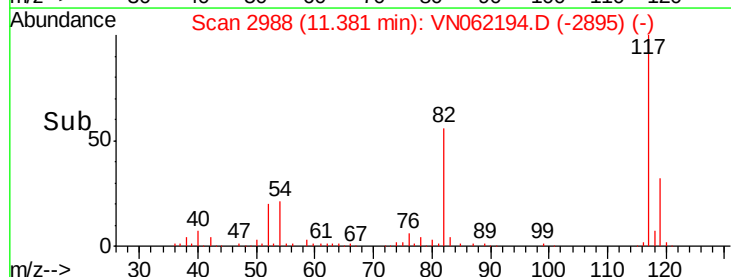
117 100

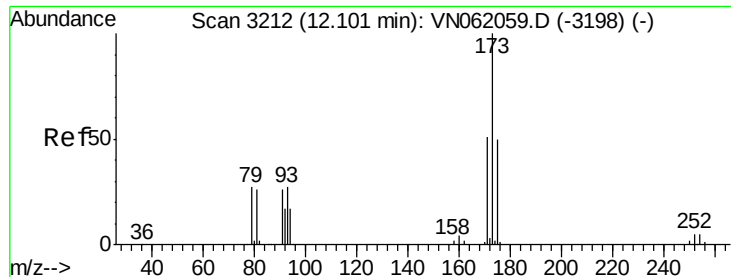
82 55.8 43.8 65.8

119 32.3 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN062194.D (-2895) (-)





#71

Bromoform

Concen: 0.714 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

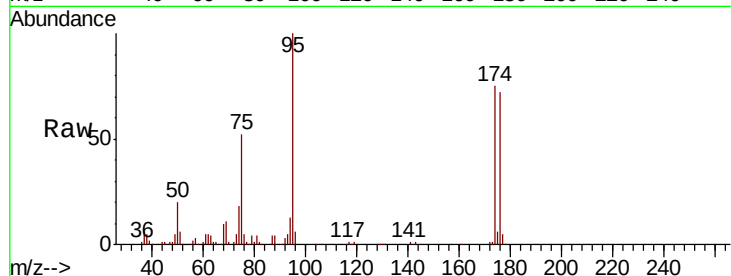
Tot Ion:173 Resp: 1318

Ion Ratio Lower Upper

173 100

175 525.1 24.7 74.1#

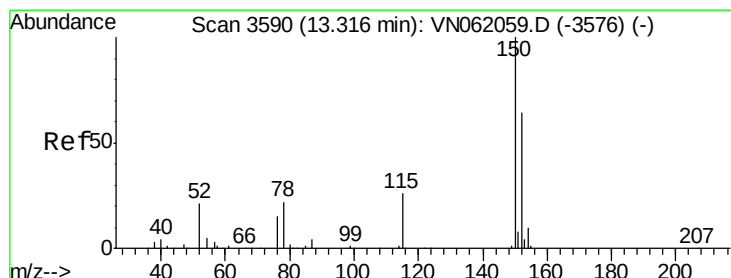
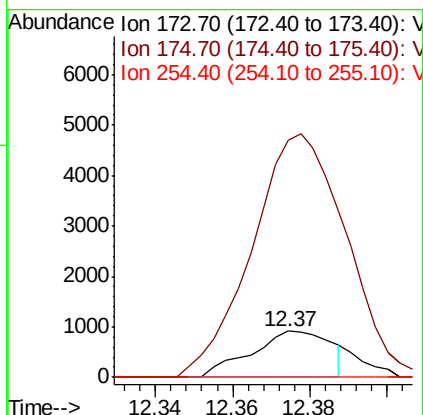
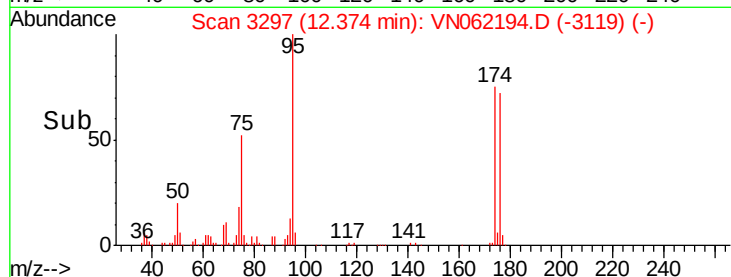
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

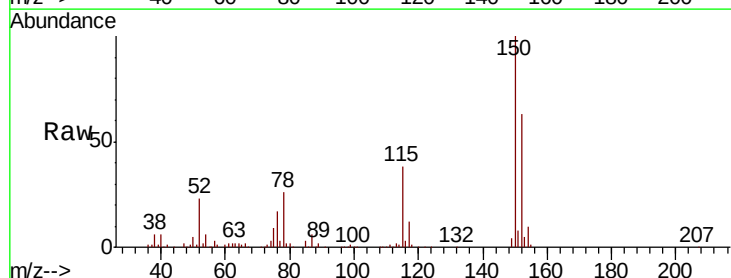
Tgt Ion:152 Resp: 117195

Ion Ratio Lower Upper

152 100

115 60.4 29.5 88.5

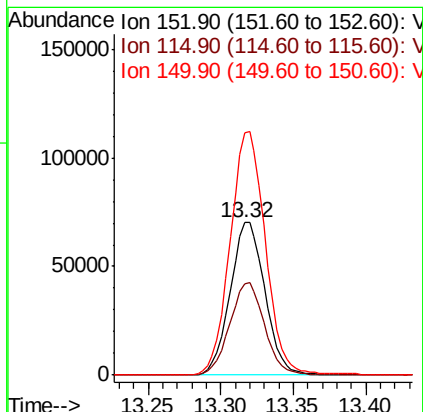
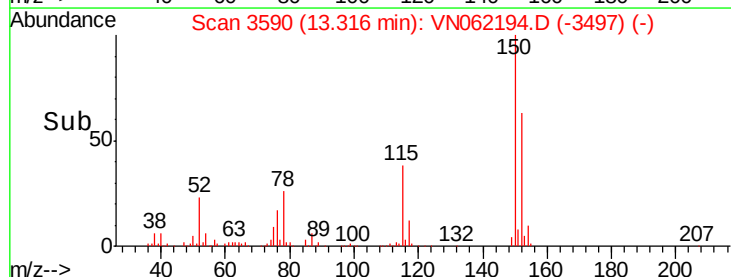
150 161.0 0.0 351.4

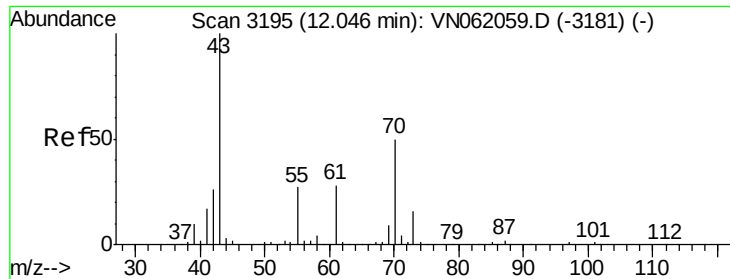


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.352 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.02 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

Tot Ion: 43 Resp: 32

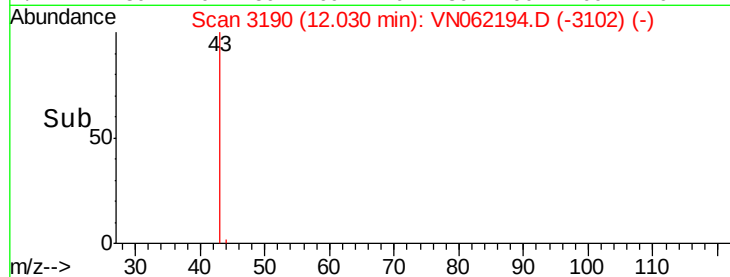
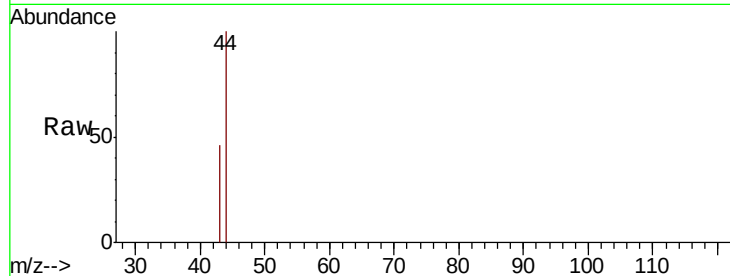
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

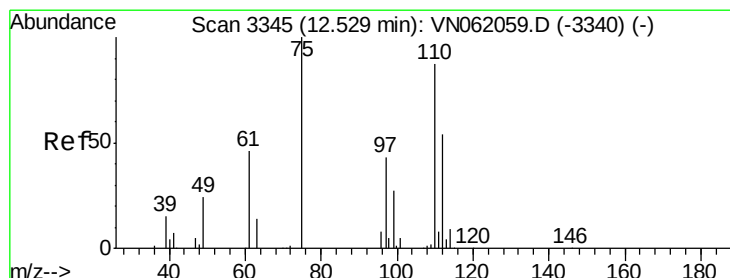
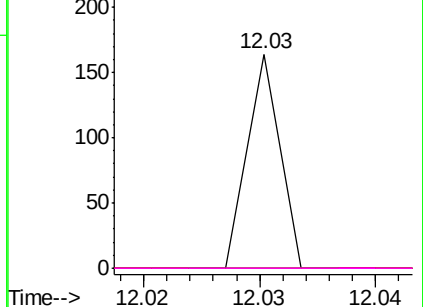


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.306 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062194.D

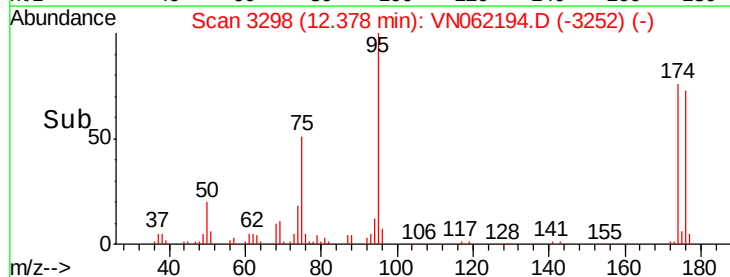
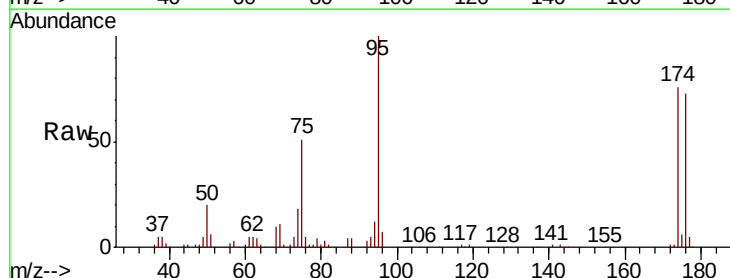
Acq: 29 Jun 2020 17:43

Tgt Ion: 75 Resp: 72574

Ion Ratio Lower Upper

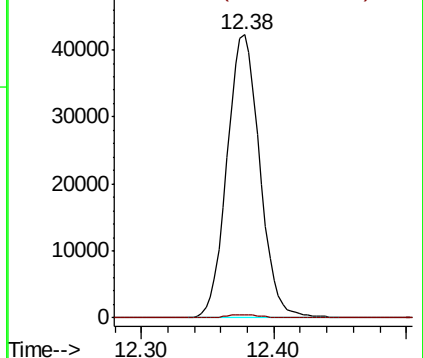
75 100

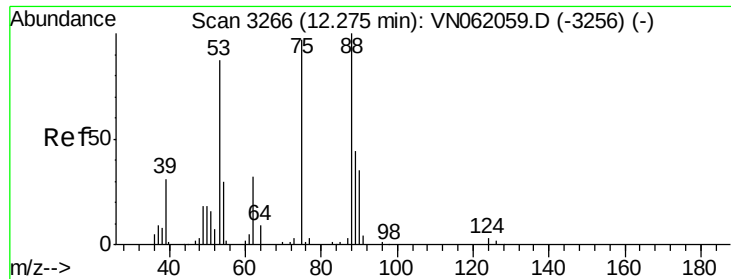
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.823 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062194.D

Acq: 29 Jun 2020 17:43

Instrument :

MSVOA_N

ClientSampleId :

29BR-20200622DL

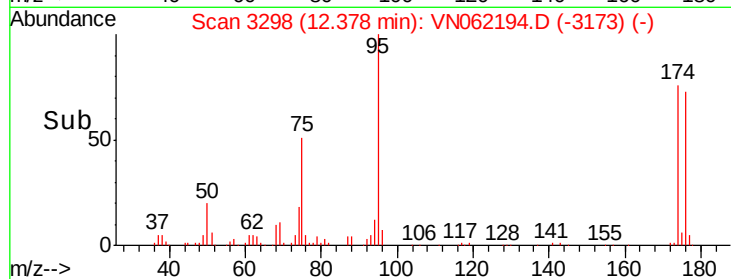
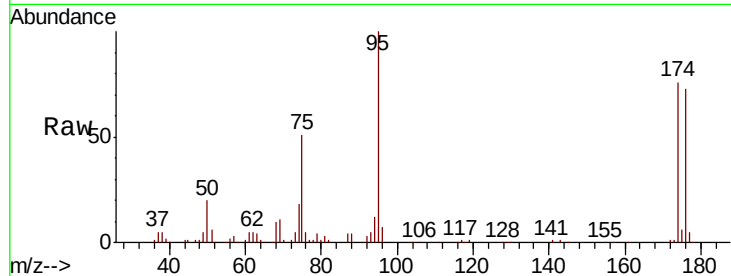
Tot Ion: 75 Resp: 72574

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

