

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN082620\
 Data File : VN063132.D
 Acq On : 26 Aug 2020 14:49
 Operator : JC/MD
 Sample : L3787-02DL 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1574DL

Quant Time: Aug 26 15:54:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	149780	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	245791	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	248461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	113139	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	90822	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
35) Dibromofluoromethane	7.55	113	80342	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
50) Toluene-d8	10.06	98	310353	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.38	95	113971	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	

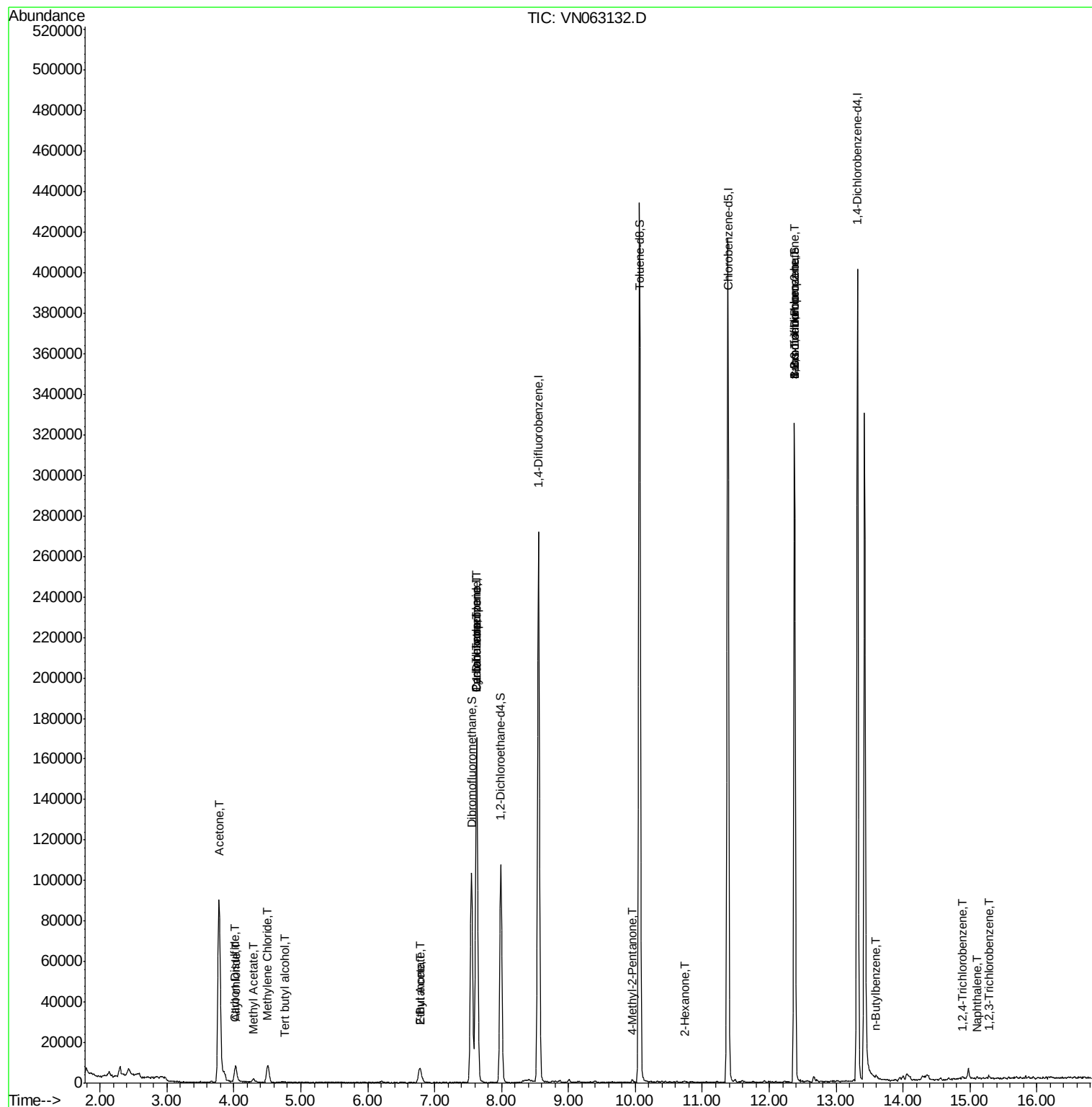
Target Compounds					Qvalue
11) Tert butyl alcohol	4.76	59	367	1.460 ug/l #	74
14) Allyl chloride	4.03	41	1218	0.543 ug/l #	66
16) Acetone	3.78	43	154583	279.715 ug/l	98
17) Carbon Disulfide	4.01	76	1843	0.554 ug/l #	76
18) Methyl Acetate	4.30	43	3849	2.182 ug/l #	76
20) Methylene Chloride	4.50	84	7041	3.250 ug/l	90
25) 2-Butanone	6.79	43	5913	6.274 ug/l	94
31) Cyclohexane	7.63	56	2715	1.038 ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10741	4.959 ug/l #	48
37) Ethyl Acetate	6.79	43	5913	2.913 ug/l #	69
38) Carbon Tetrachloride	7.63	117	13104	5.992 ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	1412	0.664 ug/l #	69
59) 2-Hexanone	10.73	43	1020	0.688 ug/l #	36
71) Bromoform	12.38	173	1046	0.677 ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	53509	24.332 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	53509	66.825 ug/l #	15
89) n-Butylbenzene	13.60	91	858	2.902 ug/l #	86
93) 1,2,4-Trichlorobenzene	14.89	180	650	4.846 ug/l #	83
95) Naphthalene	15.11	128	1707	5.978 ug/l #	77
96) 1,2,3-Trichlorobenzene	15.28	180	631	4.268 ug/l	91

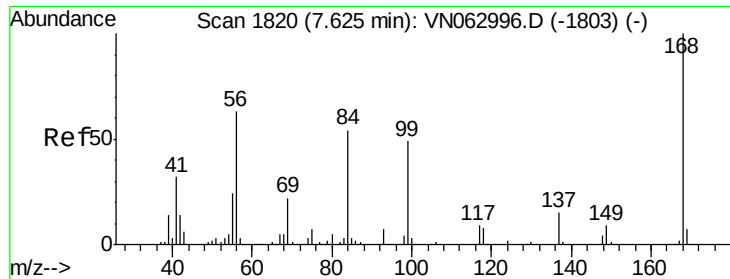
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

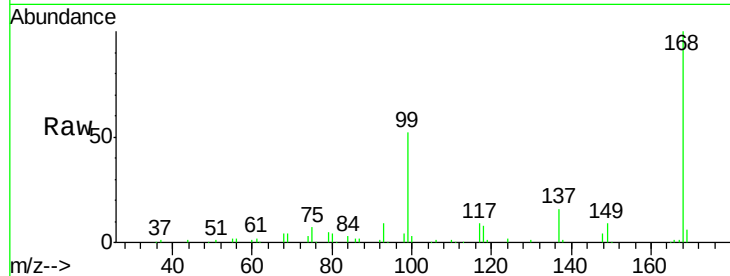
1574DL

Tgt Ion:168 Resp: 149780

Ion Ratio Lower Upper

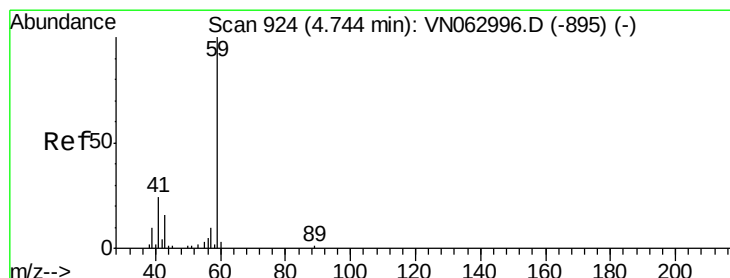
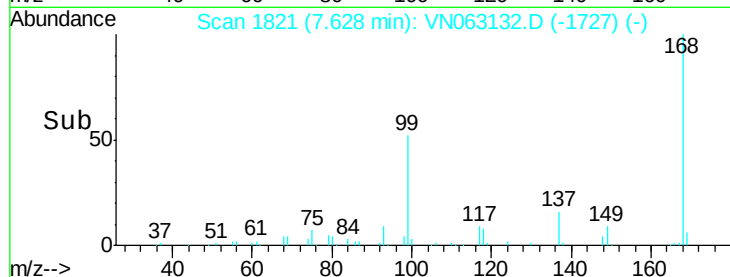
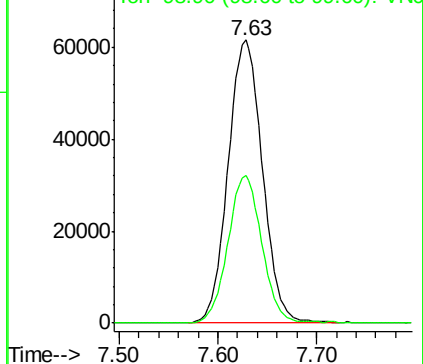
168 100

99 52.0 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.460 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.02 min

Lab File: VN063132.D

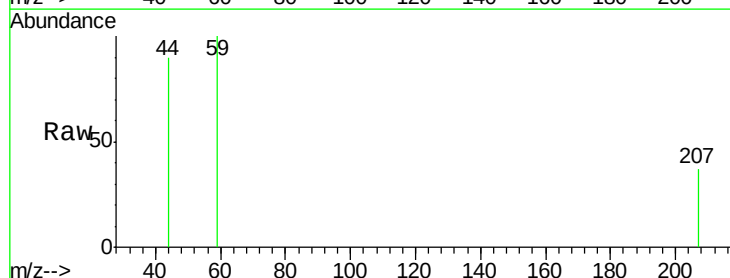
Acq: 26 Aug 2020 14:49

Tgt Ion: 59 Resp: 367

Ion Ratio Lower Upper

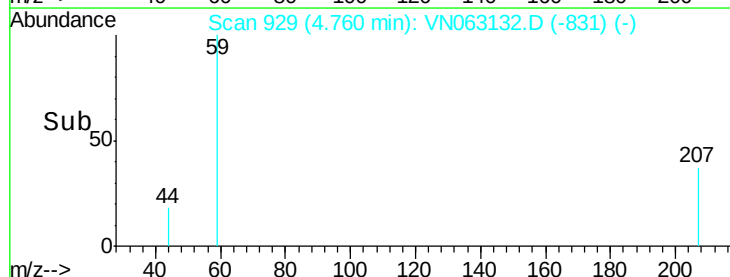
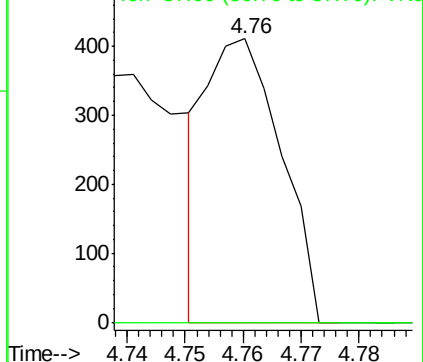
59 100

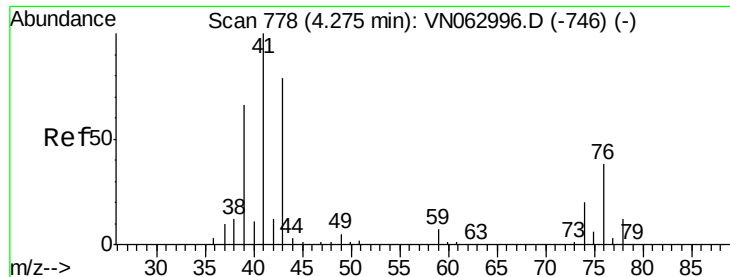
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

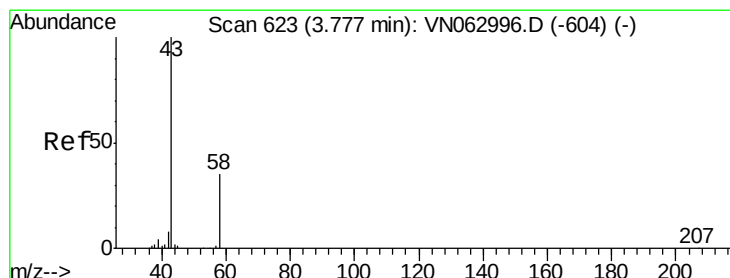
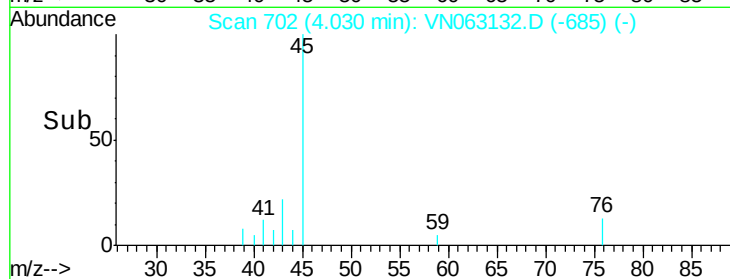
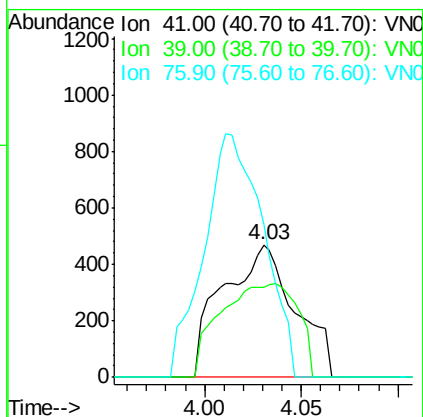
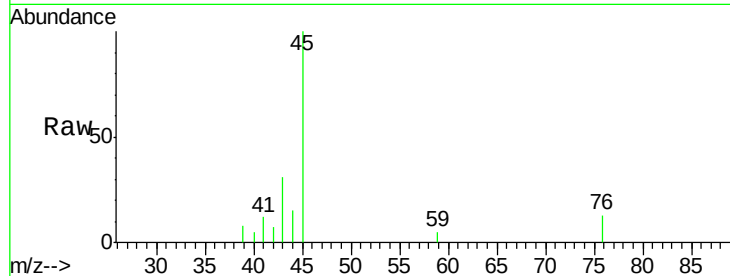




#14
 Allyl chloride
 Concen: 0.543 ug/l
 RT: 4.03 min Scan# 702
 Delta R.T. -0.24 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

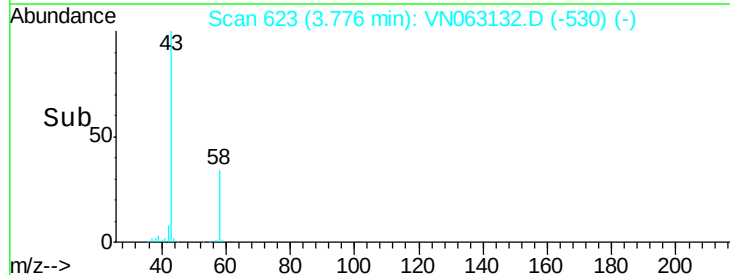
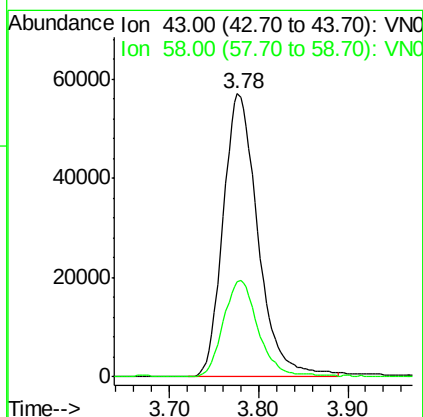
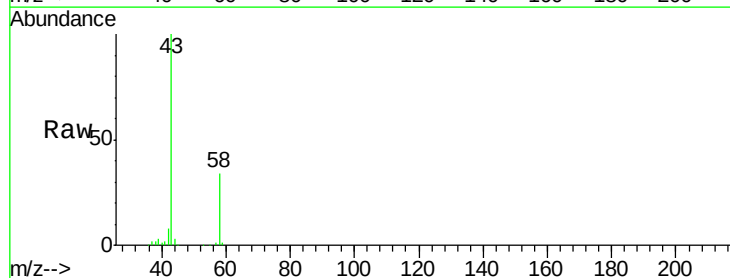
Instrument :
 MSVOA_N
 ClientSampled :
 1574DL

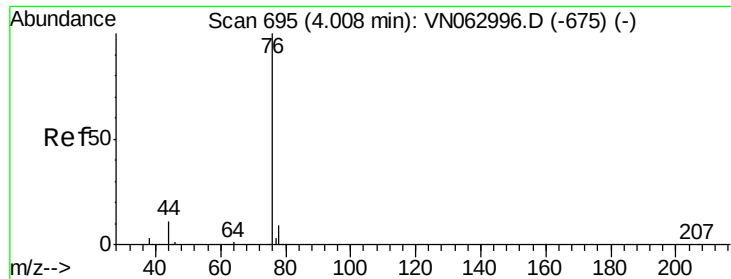
Tgt Ion: 41 Resp: 1218
 Ion Ratio Lower Upper
 41 100
 39 75.2 47.9 71.9#
 76 0.0 27.0 40.6#



#16
 Acetone
 Concen: 279.715 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Tgt Ion: 43 Resp: 154583
 Ion Ratio Lower Upper
 43 100
 58 33.7 27.8 41.6





#17

Carbon Disulfide

Concen: 0.554 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

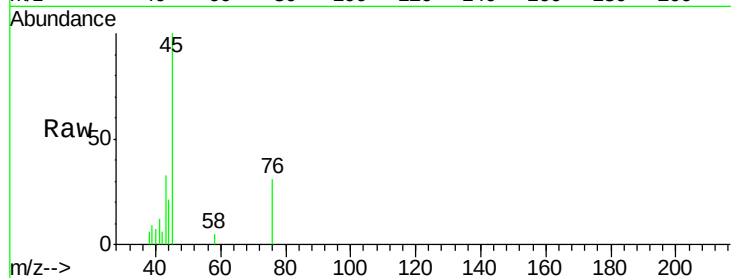
1574DL

Tgt Ion: 76 Resp: 1843

Ion Ratio Lower Upper

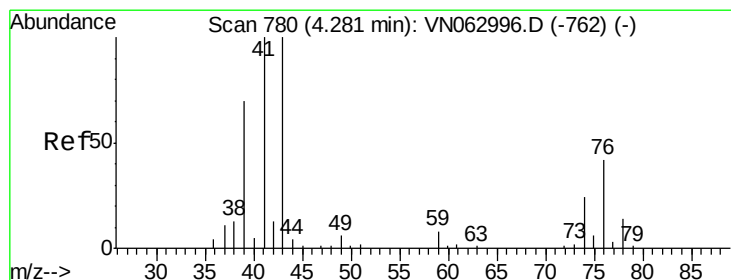
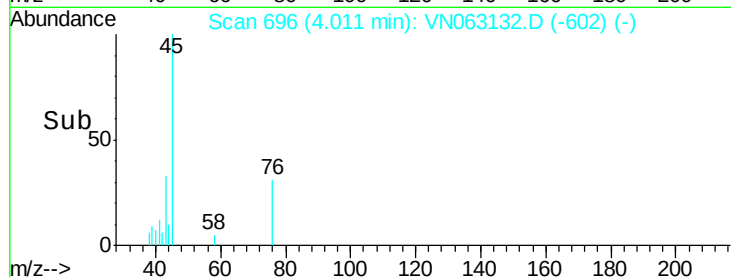
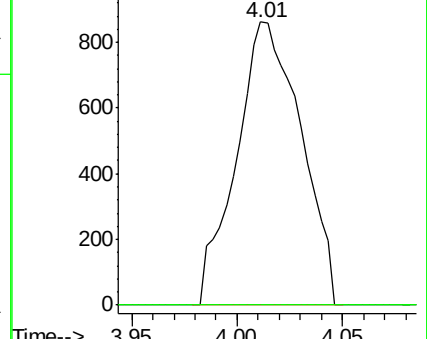
76 100

78 0.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VN062996.D (-675) (-)

Ion 77.90 (77.60 to 78.60): VN062996.D (-675) (-)



#18

Methyl Acetate

Concen: 2.182 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.02 min

Lab File: VN063132.D

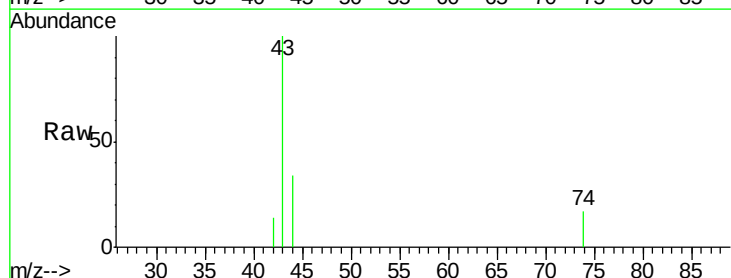
Acq: 26 Aug 2020 14:49

Tgt Ion: 43 Resp: 3849

Ion Ratio Lower Upper

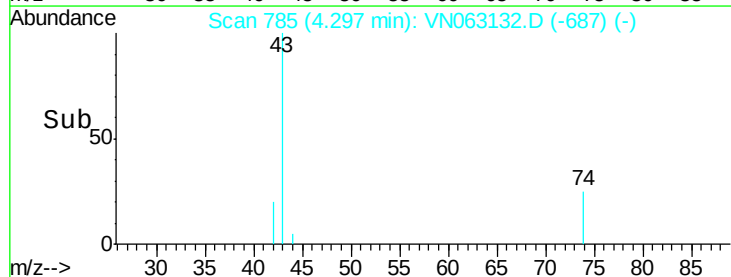
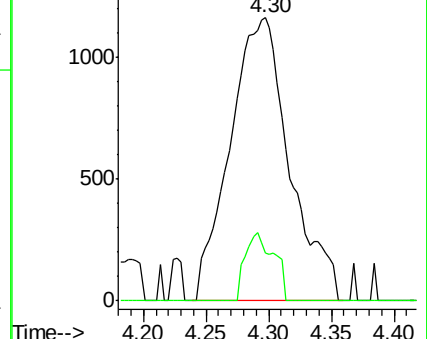
43 100

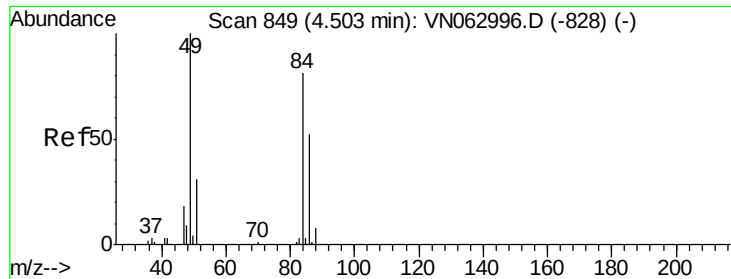
74 11.4 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-762) (-)

Ion 74.00 (73.70 to 74.70): VN062996.D (-762) (-)

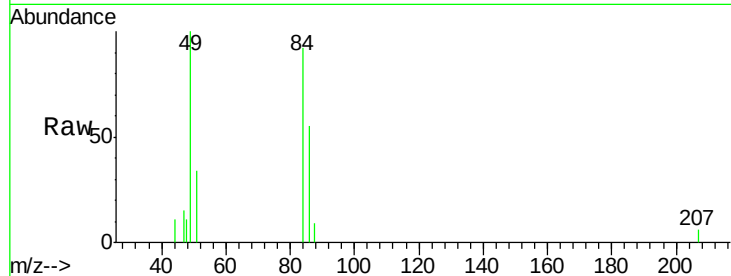




#20
Methylene Chloride
Concen: 3.250 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN063132.D
Acq: 26 Aug 2020 14:49

Instrument :
MSVOA_N
ClientSampled :
1574DL

Tgt Ion:	84	Resp:	7041
Ion	Ratio	Lower	Upper
84	100		
49	108.1	98.7	148.1
51	36.3	30.8	46.2
86	59.6	51.2	76.8

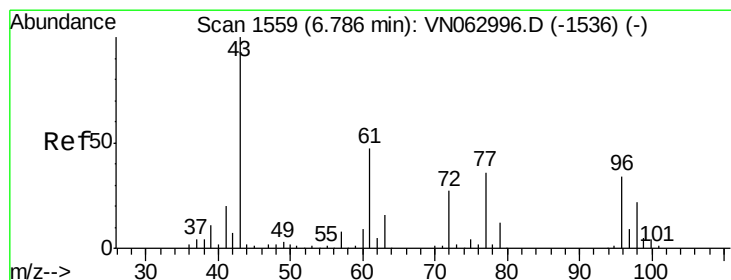
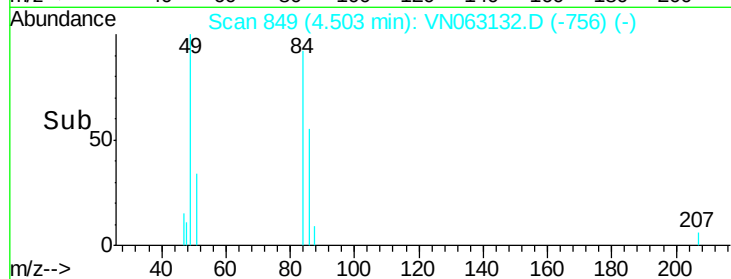
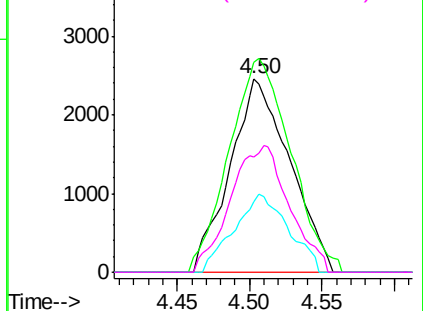


Abundance Ion 83.90 (83.60 to 84.60): VN063132.D (-756) (-)

Ion 48.90 (48.60 to 49.60): VN063132.D (-756) (-)

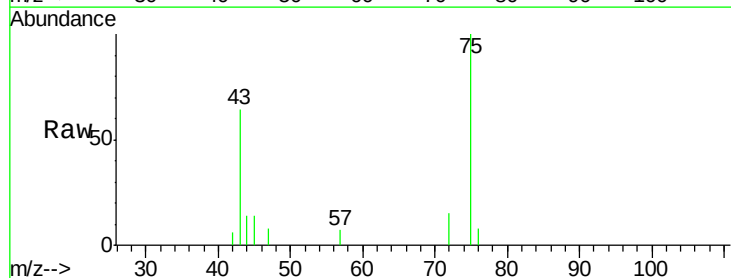
Ion 50.90 (50.60 to 51.60): VN063132.D (-756) (-)

Ion 85.90 (85.60 to 86.60): VN063132.D (-756) (-)



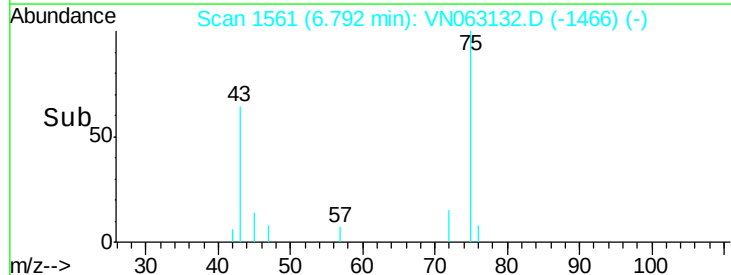
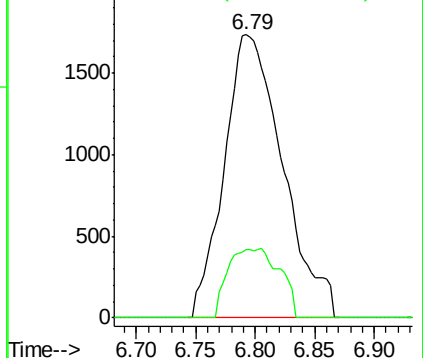
#25
2-Butanone
Concen: 6.274 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN063132.D
Acq: 26 Aug 2020 14:49

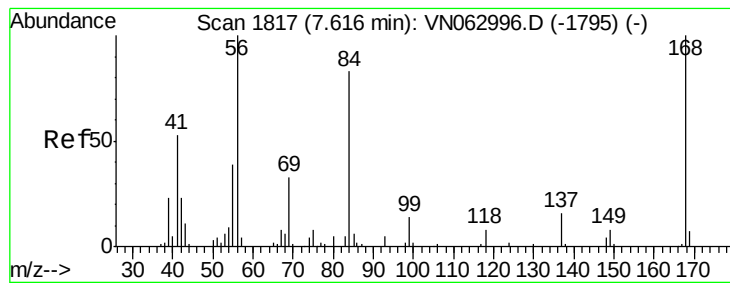
Tgt Ion:	43	Resp:	5913
Ion	Ratio	Lower	Upper
43	100		
72	24.0	21.8	32.6



Abundance Ion 43.00 (42.70 to 43.70): VN063132.D (-1466) (-)

Ion 72.00 (71.70 to 72.70): VN063132.D (-1466) (-)





#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

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ClientSampleId :

1574DL

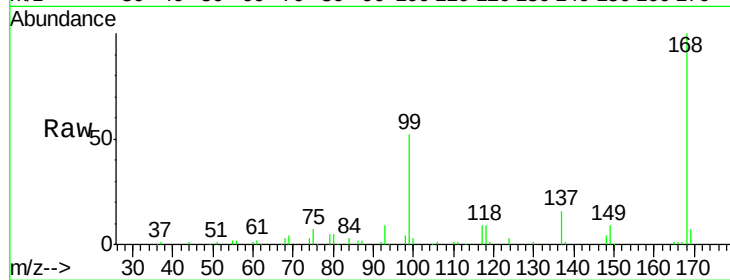
Tgt Ion: 56 Resp: 2715

Ion Ratio Lower Upper

56 100

69 171.4 26.6 40.0#

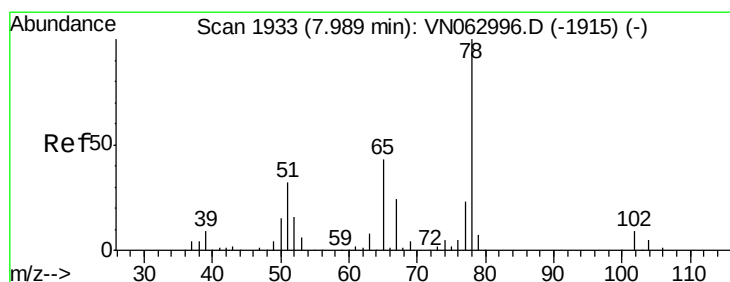
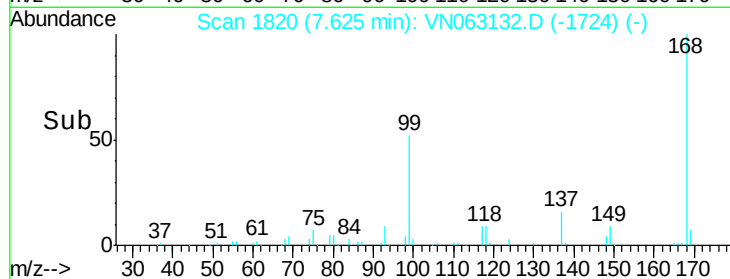
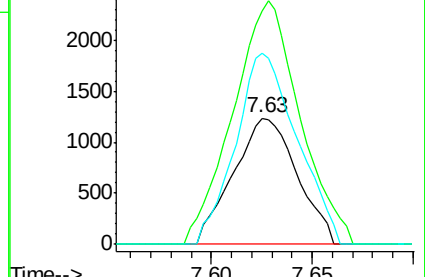
84 152.0 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VN062996.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062996.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062996.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.162 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN063132.D

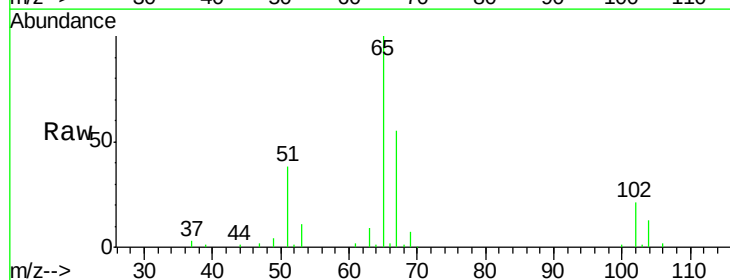
Acq: 26 Aug 2020 14:49

Tgt Ion: 65 Resp: 90822

Ion Ratio Lower Upper

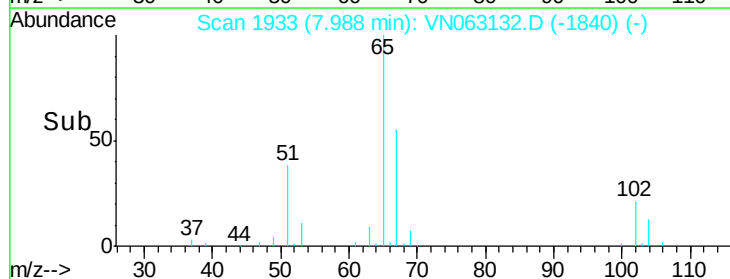
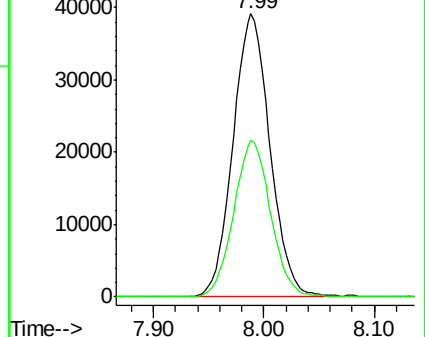
65 100

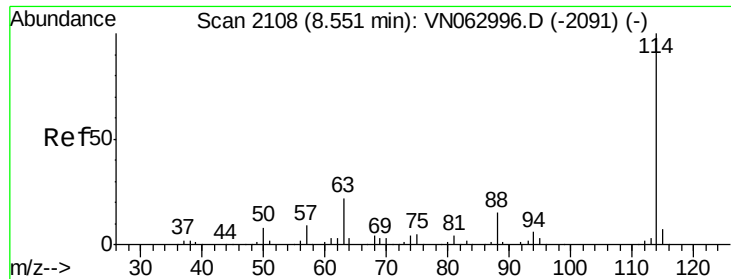
67 55.1 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN062996.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062996.D (-1915) (-)

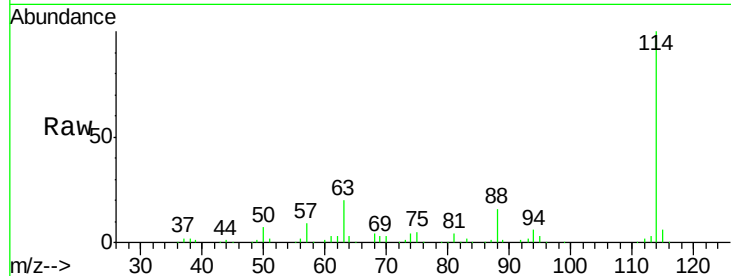




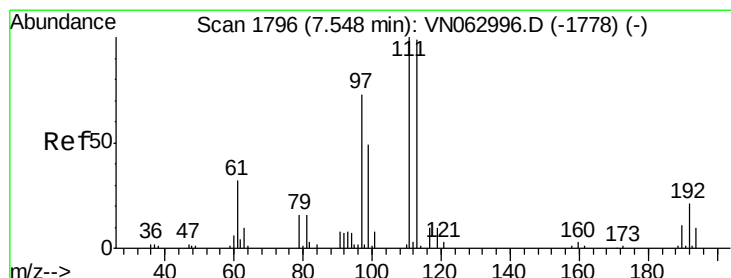
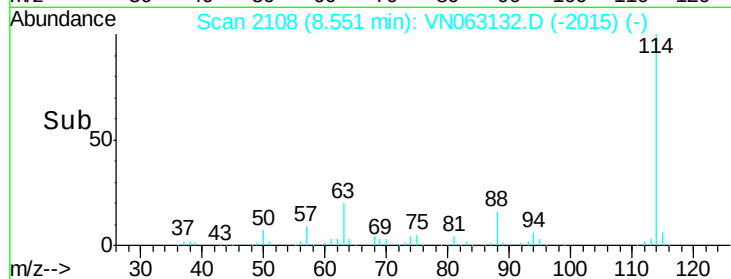
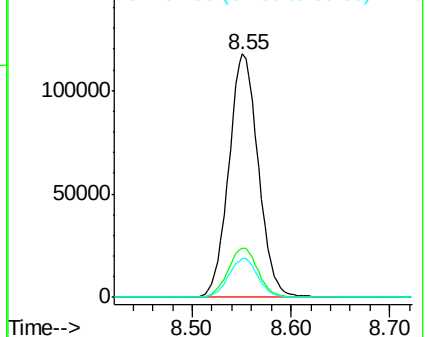
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Instrument :
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 1574DL

Tgt Ion:114 Resp: 245791
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 43.2
 88 15.9 0.0 30.6

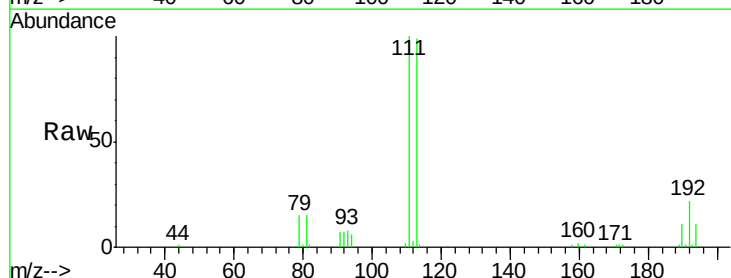


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

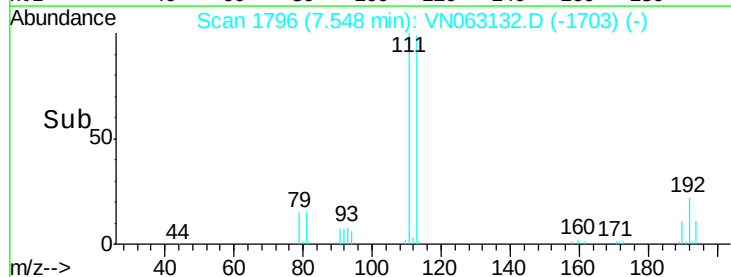
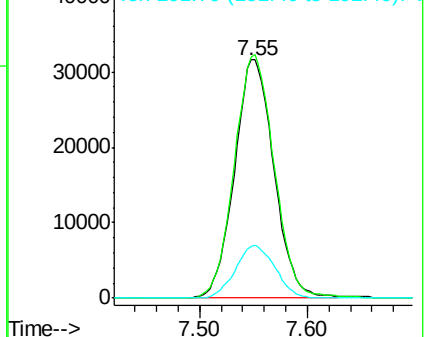


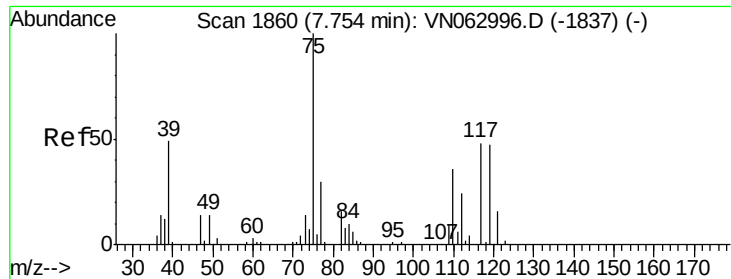
#35
 Dibromofluoromethane
 Concen: 50.165 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Tgt Ion:113 Resp: 80342
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.7 122.5
 192 22.2 17.5 26.3



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

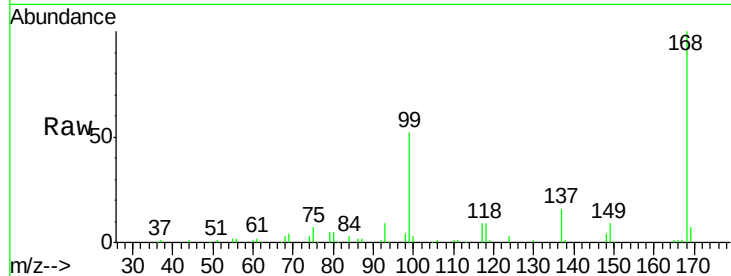




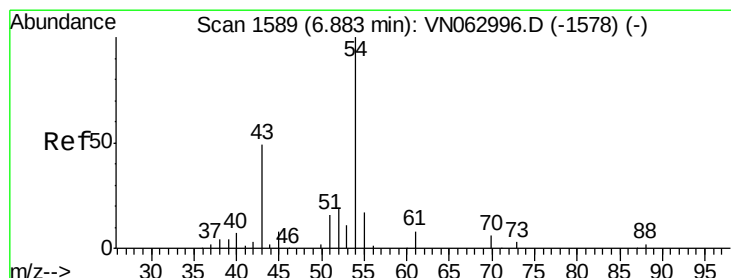
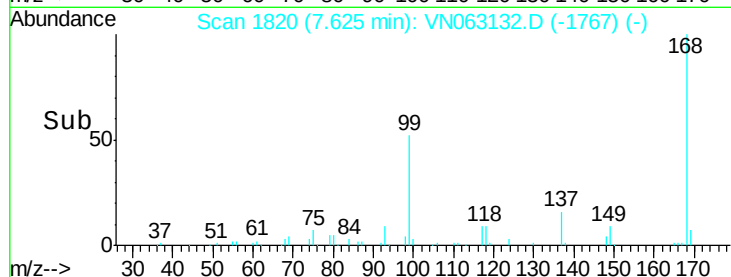
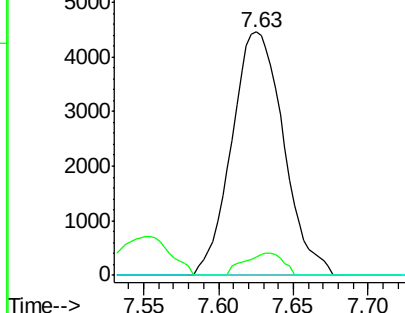
#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Instrument :
 MSVOA_N
 ClientSampleId :
 1574DL

Tgt Ion: 75 Resp: 10741
 Ion Ratio Lower Upper
 75 100
 110 6.9 17.5 52.6#
 77 0.0 24.2 36.4#

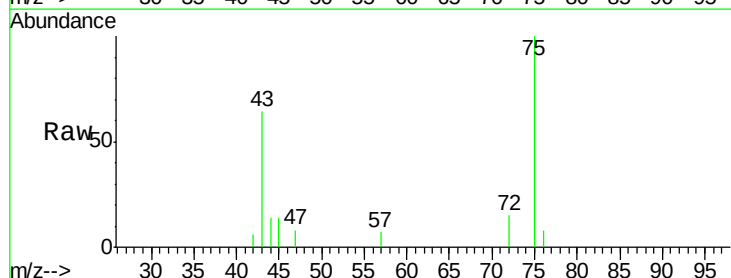


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

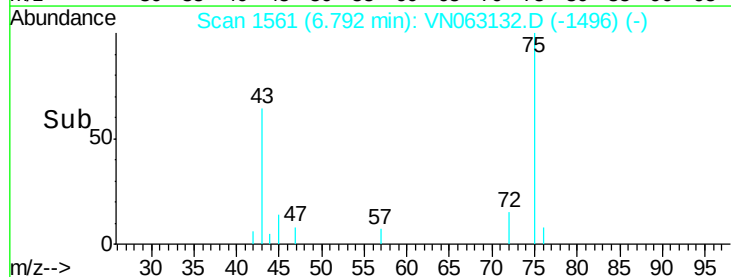
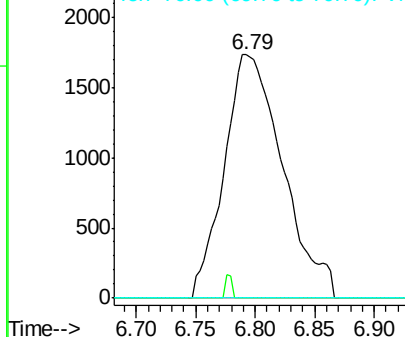


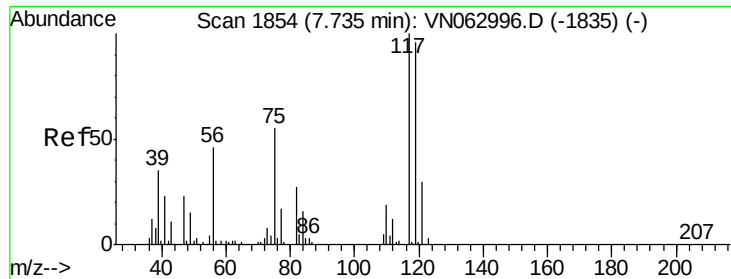
#37
 Ethyl Acetate
 Concen: 2.913 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Tgt Ion: 43 Resp: 5913
 Ion Ratio Lower Upper
 43 100
 61 1.1 11.8 17.8#
 70 0.0 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

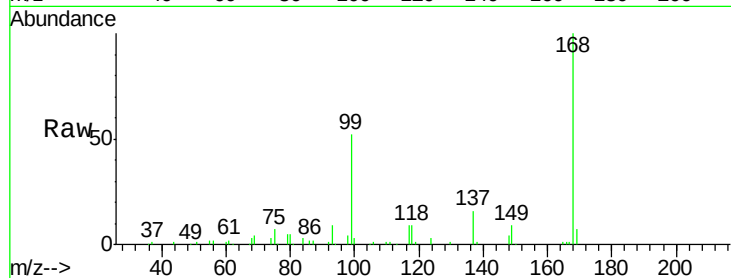




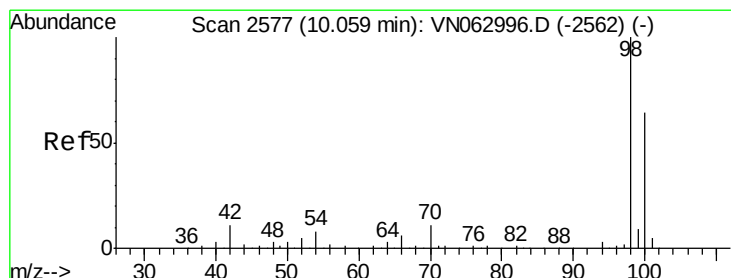
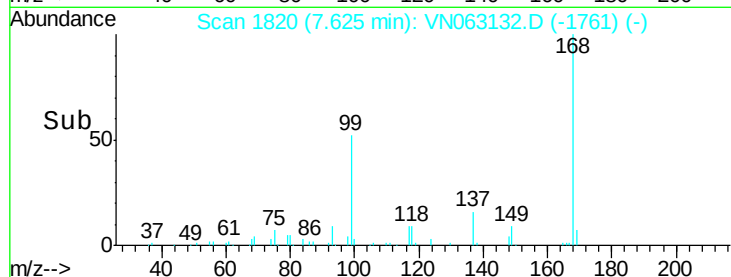
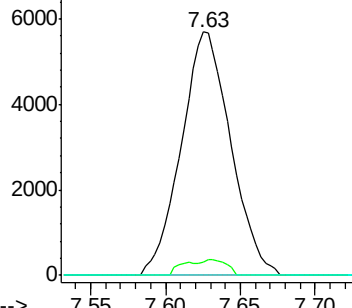
#38
Carbon Tetrachloride
Concen: 5.992 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN063132.D
Acq: 26 Aug 2020 14:49

Instrument :
MSVOA_N
ClientSampled :
1574DL

Tgt Ion: 117 Resp: 13104
Ion Ratio Lower Upper
117 100
119 5.5 76.2 114.4#
121 0.0 24.2 36.2#

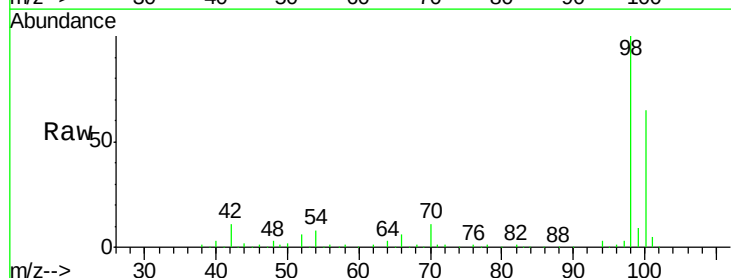


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

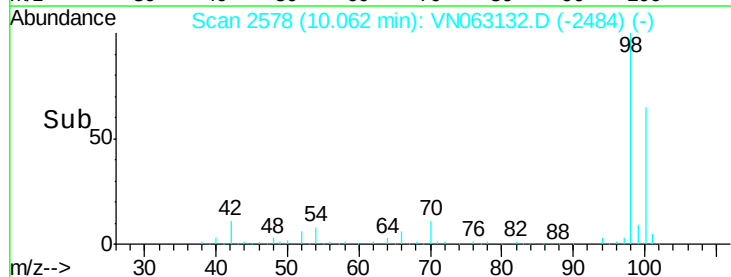
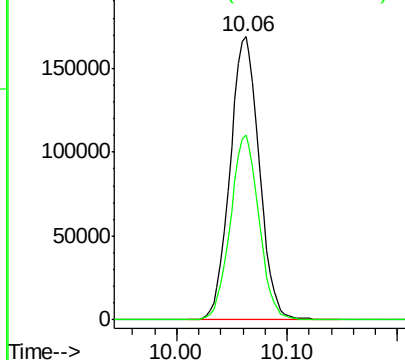


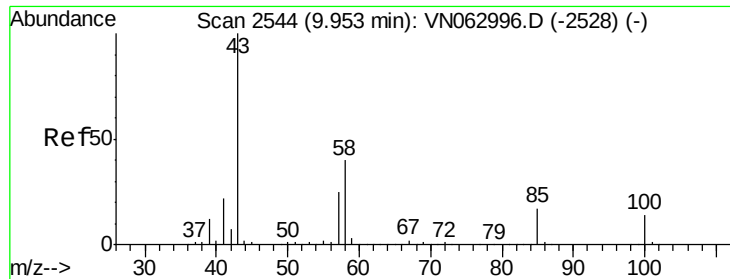
#50
Toluene-d8
Concen: 50.450 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN063132.D
Acq: 26 Aug 2020 14:49

Tgt Ion: 98 Resp: 310353
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

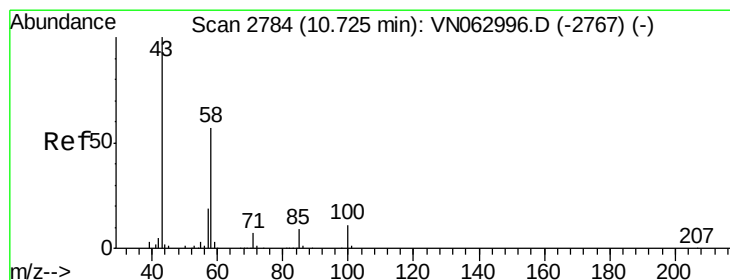
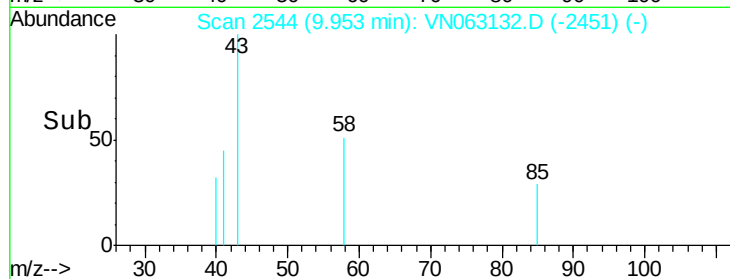
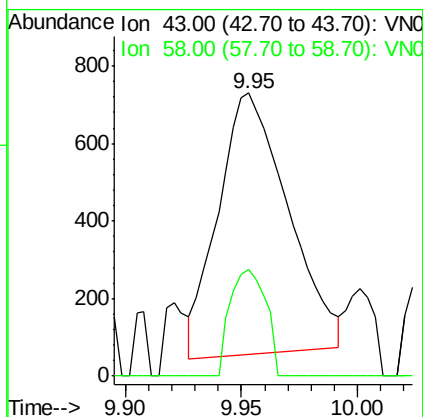
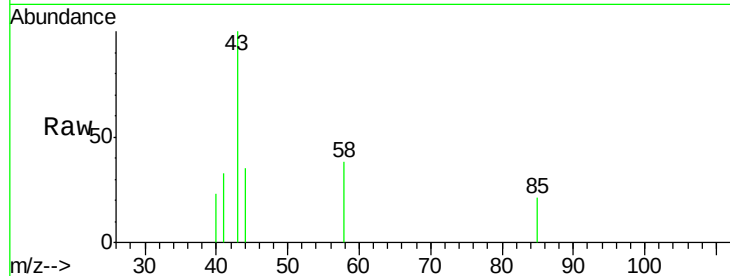




#51
 4-Methyl-2-Pentanone
 Concen: 0.664 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

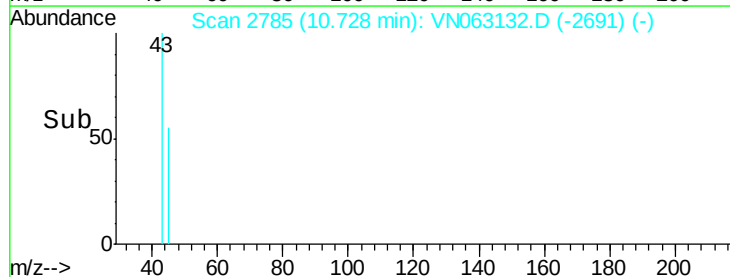
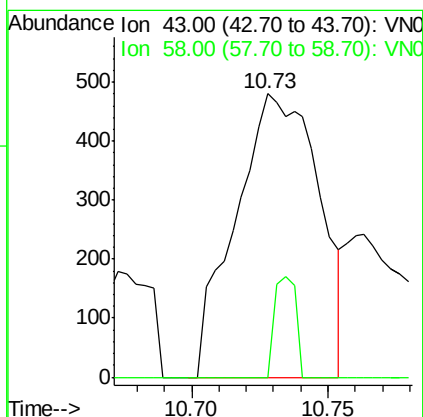
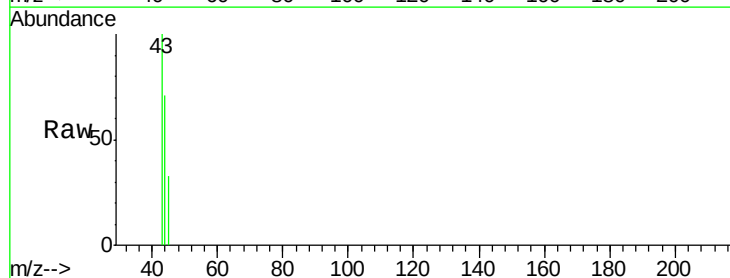
Instrument :
 MSVOA_N
 ClientSampleId :
 1574DL

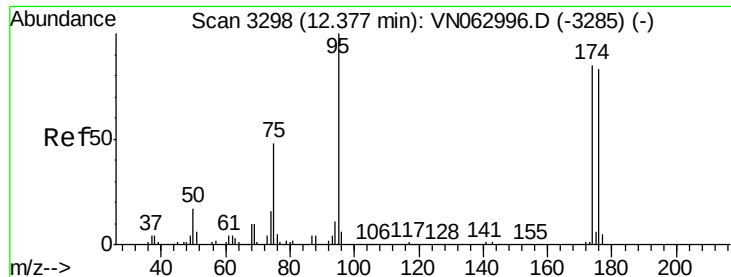
Tgt Ion: 43 Resp: 1412
 Ion Ratio Lower Upper
 43 100
 58 20.9 32.2 48.2#



#59
 2-Hexanone
 Concen: 0.688 ug/l
 RT: 10.73 min Scan# 2785
 Delta R.T. 0.00 min
 Lab File: VN063132.D
 Acq: 26 Aug 2020 14:49

Tgt Ion: 43 Resp: 1020
 Ion Ratio Lower Upper
 43 100
 58 9.1 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: 52.501 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampled :

1574DL

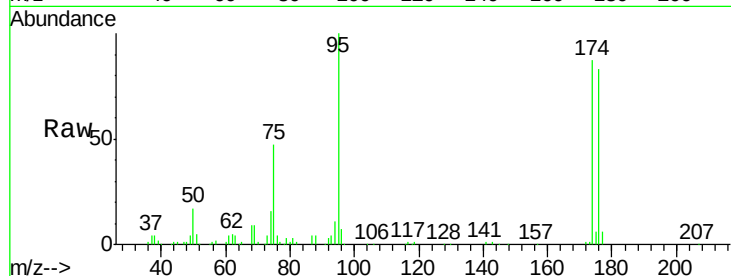
Tgt Ion: 95 Resp: 113971

Ion Ratio Lower Upper

95 100

174 86.4 0.0 170.8

176 81.9 0.0 164.8

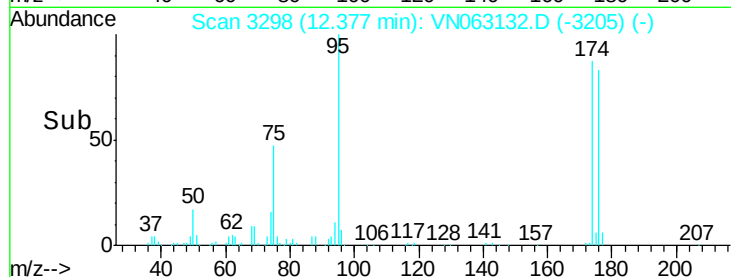


Abundance Ion 94.90 (94.60 to 95.60): VN062996.D (-3285) (-)

Ion 173.80 (173.50 to 174.50): VN062996.D (-3285) (-)

Ion 175.80 (175.50 to 176.50): VN062996.D (-3285) (-)

Time-->

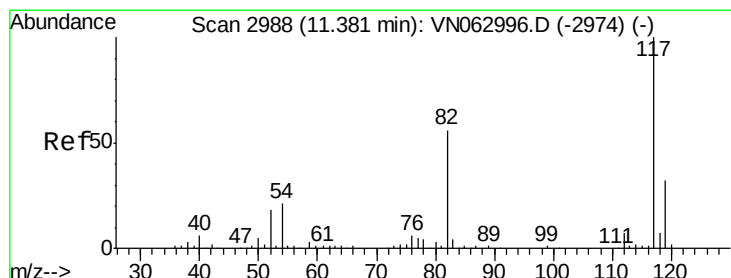


Abundance Ion 94.90 (94.60 to 95.60): VN063132.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN063132.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN063132.D (-3205) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

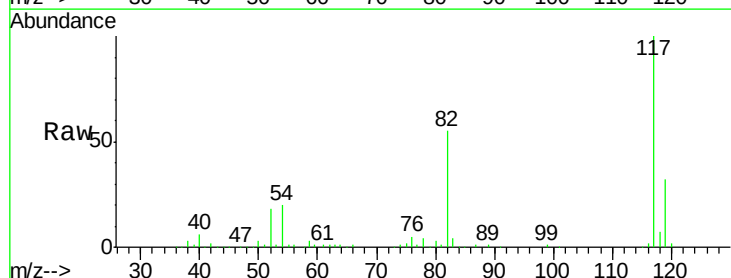
Tgt Ion: 117 Resp: 248461

Ion Ratio Lower Upper

117 100

82 54.7 44.5 66.7

119 31.7 25.5 38.3

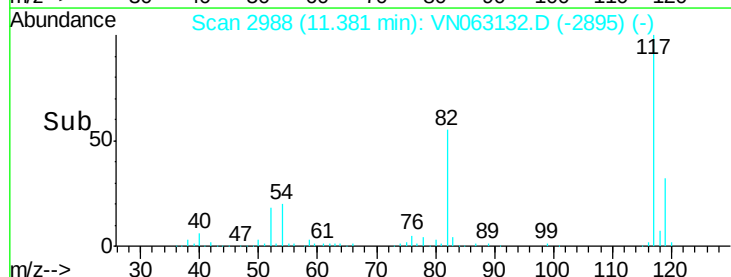


Abundance Ion 116.90 (116.60 to 117.60): VN062996.D (-2974) (-)

Ion 82.00 (81.70 to 82.70): VN062996.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062996.D (-2974) (-)

Time-->

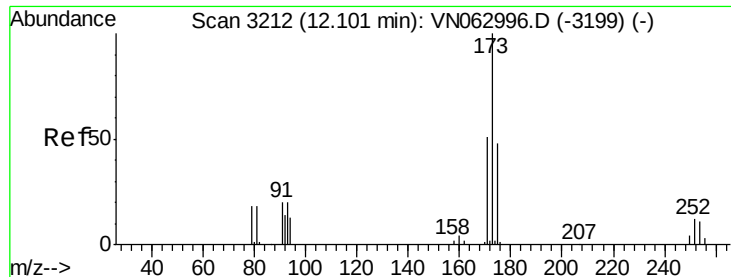


Abundance Ion 116.90 (116.60 to 117.60): VN063132.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN063132.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN063132.D (-2895) (-)

Time-->



#71

Bromoform

Concen: 0.677 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

1574DL

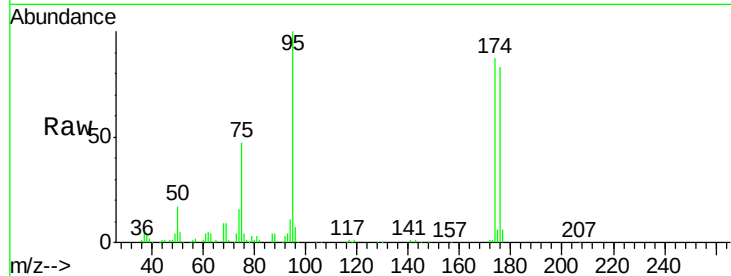
Tgt Ion:173 Resp: 1046

Ion Ratio Lower Upper

173 100

175 586.9 24.3 72.8#

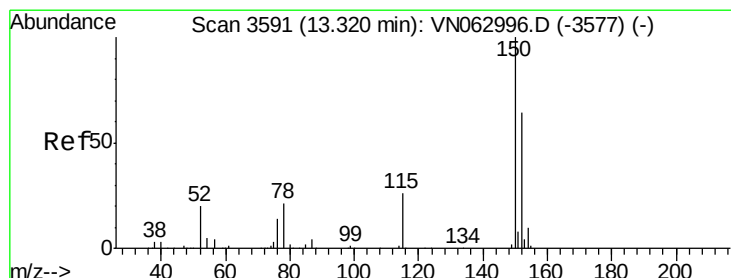
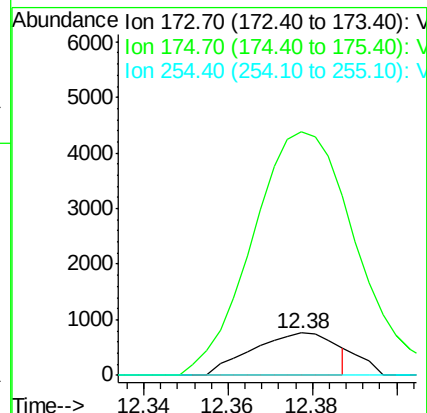
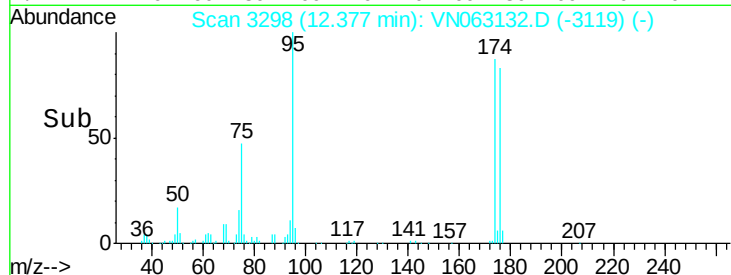
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

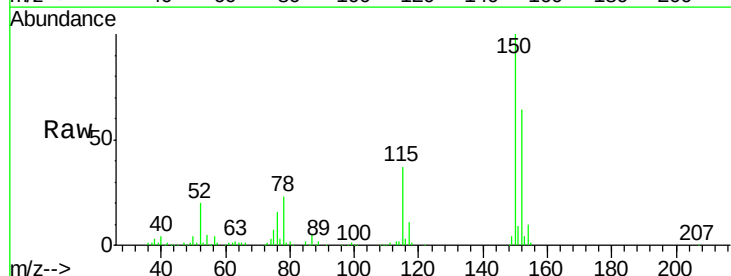
Tgt Ion:152 Resp: 113139

Ion Ratio Lower Upper

152 100

115 57.3 28.7 86.3

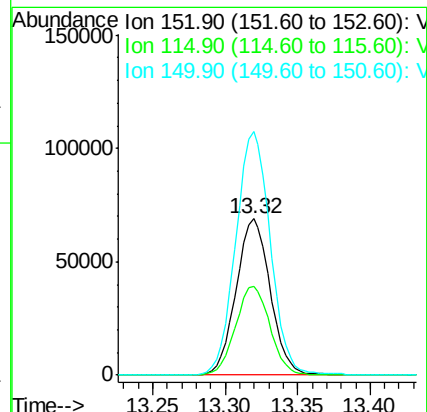
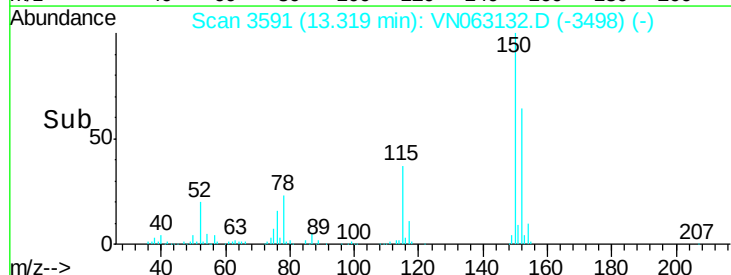
150 157.9 0.0 348.8

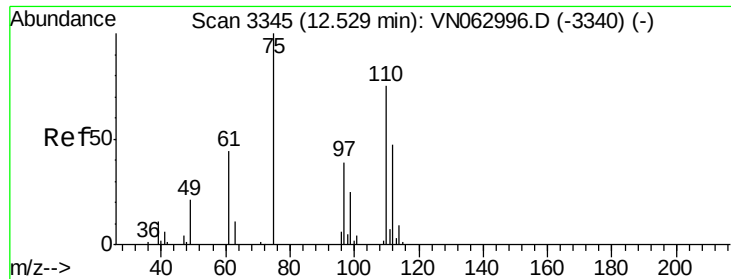


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.332 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

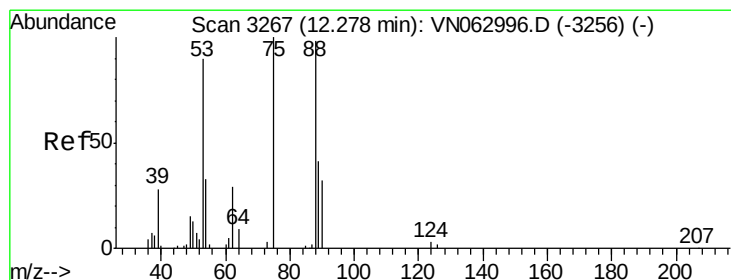
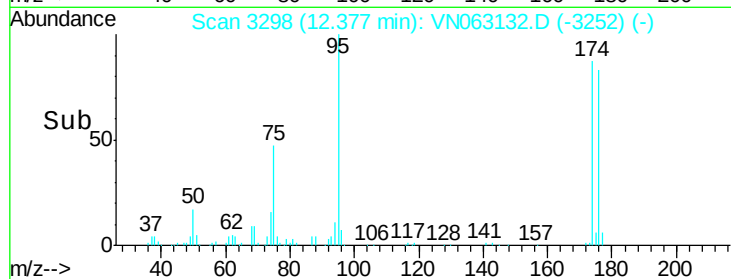
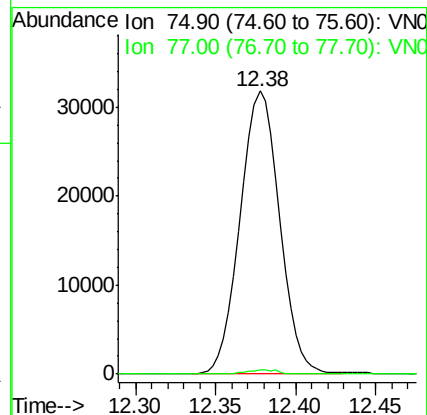
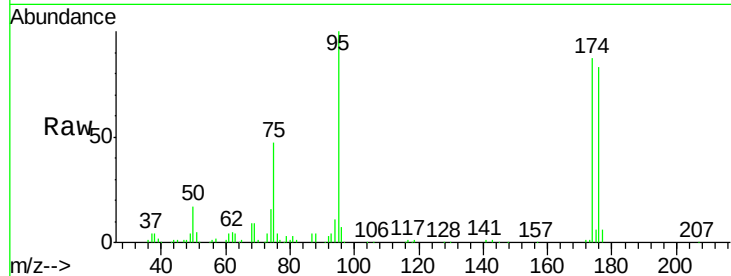
1574DL

Tgt Ion: 75 Resp: 53509

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.825 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

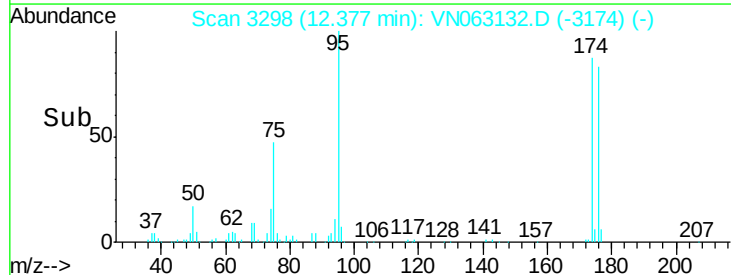
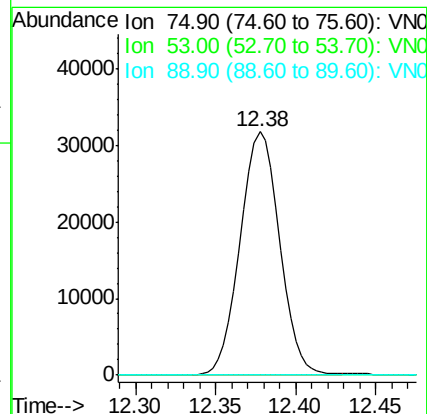
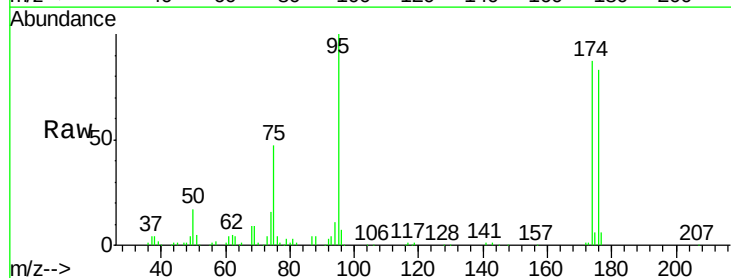
Tgt Ion: 75 Resp: 53509

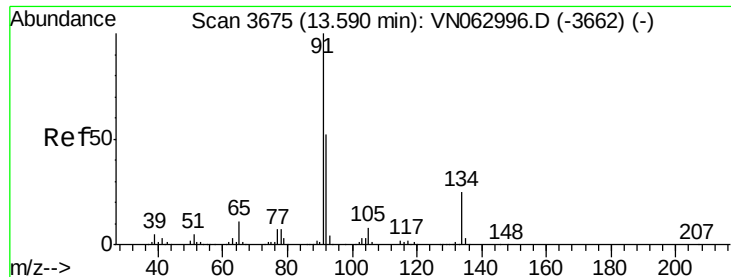
Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 34.2 51.4#





#89

n-Butylbenzene

Concen: 2.902 ug/l

RT: 13.60 min Scan# 3677

Delta R.T. 0.01 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

1574DL

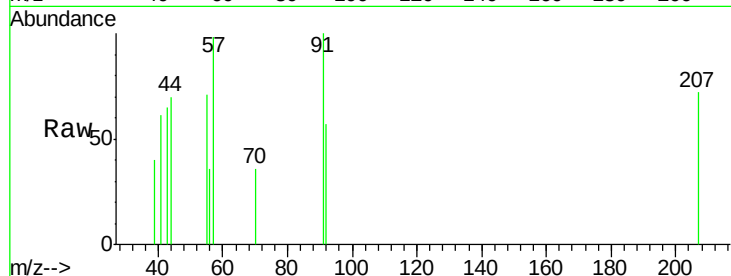
Tgt Ion: 91 Resp: 858

Ion Ratio Lower Upper

91 100

92 52.0 25.9 77.6

134 3.7 12.4 37.0#



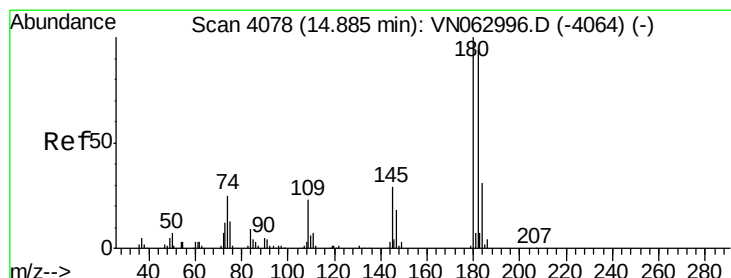
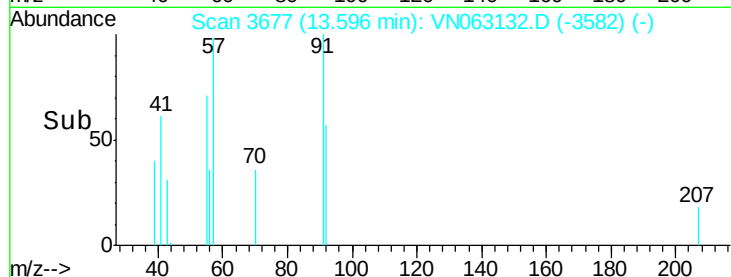
Abundance Ion 91.00 (90.70 to 91.70): VN062996.D (-3662) (-)

Ion 92.00 (91.70 to 92.70): VN062996.D (-3662) (-)

Ion 134.00 (133.70 to 134.70): VN062996.D (-3662) (-)

Time-->

13.55 13.60



#93

1,2,4-Trichlorobenzene

Concen: 4.846 ug/l

RT: 14.89 min Scan# 4078

Delta R.T. 0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

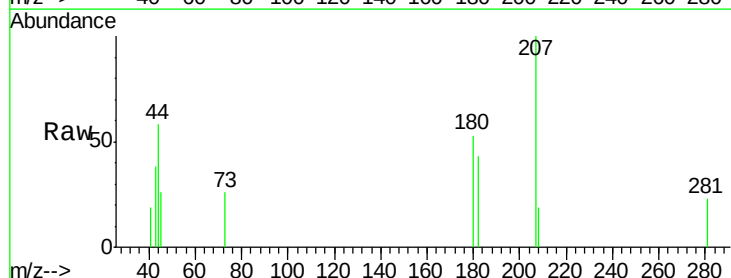
Tgt Ion: 180 Resp: 650

Ion Ratio Lower Upper

180 100

182 88.5 47.0 141.2

145 0.0 14.1 42.4#



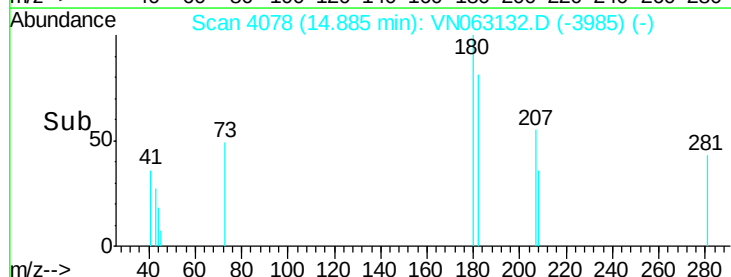
Abundance Ion 179.80 (179.50 to 180.50): VN062996.D (-4064) (-)

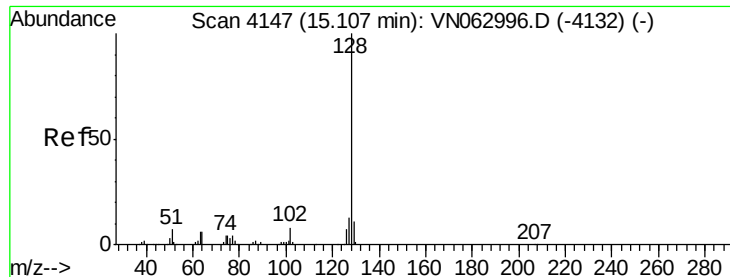
Ion 181.80 (181.50 to 182.50): VN062996.D (-4064) (-)

Ion 144.80 (144.50 to 145.50): VN062996.D (-4064) (-)

Time-->

14.85 14.90





#95

Naphthalene

Concen: 5.978 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

Instrument :

MSVOA_N

ClientSampled :

1574DL

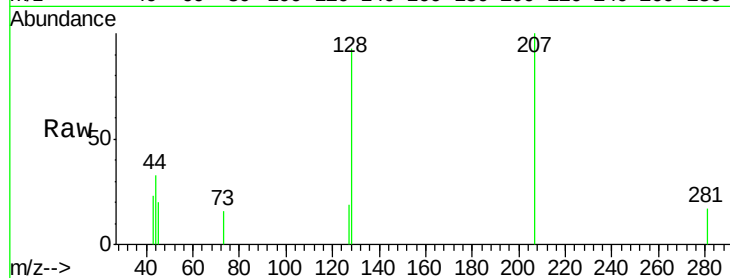
Tgt Ion:128 Resp: 1707

Ion Ratio Lower Upper

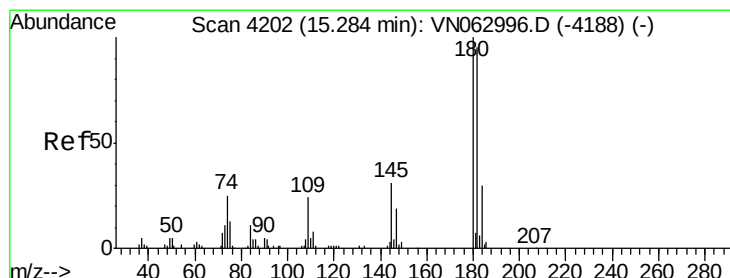
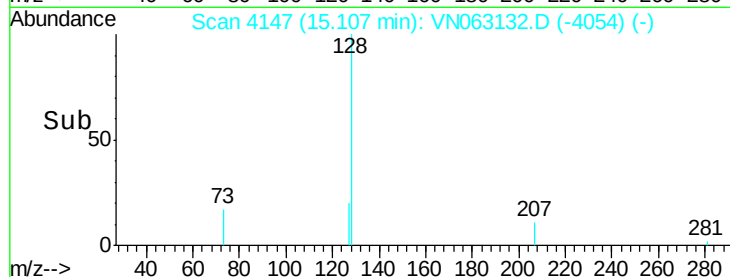
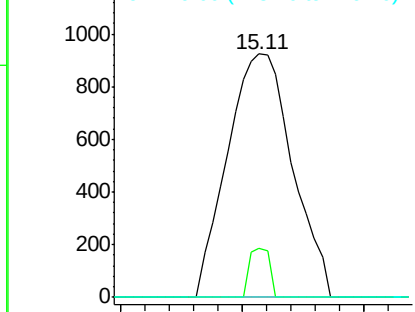
128 100

127 6.0 10.6 16.0#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.268 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. -0.00 min

Lab File: VN063132.D

Acq: 26 Aug 2020 14:49

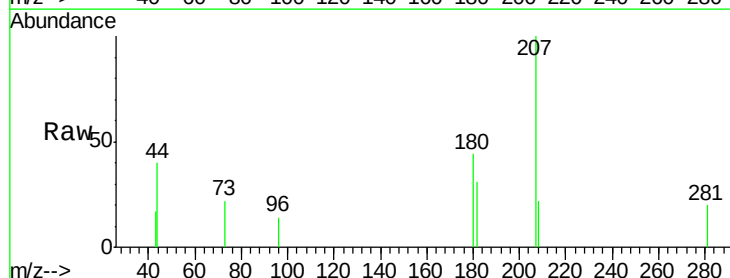
Tgt Ion:180 Resp: 631

Ion Ratio Lower Upper

180 100

182 91.6 47.3 141.9

145 17.0 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

