

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061901.D
 Acq On : 18 Jun 2020 15:39
 Operator : JC/MD
 Sample : L3011-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE-DUP03-20200611

Quant Time: Jun 19 05:26:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	133355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	246489	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	241444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94163	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	90069	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	7.55	113	80717	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
50) Toluene-d8	10.06	98	310029	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.38	95	102380	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	

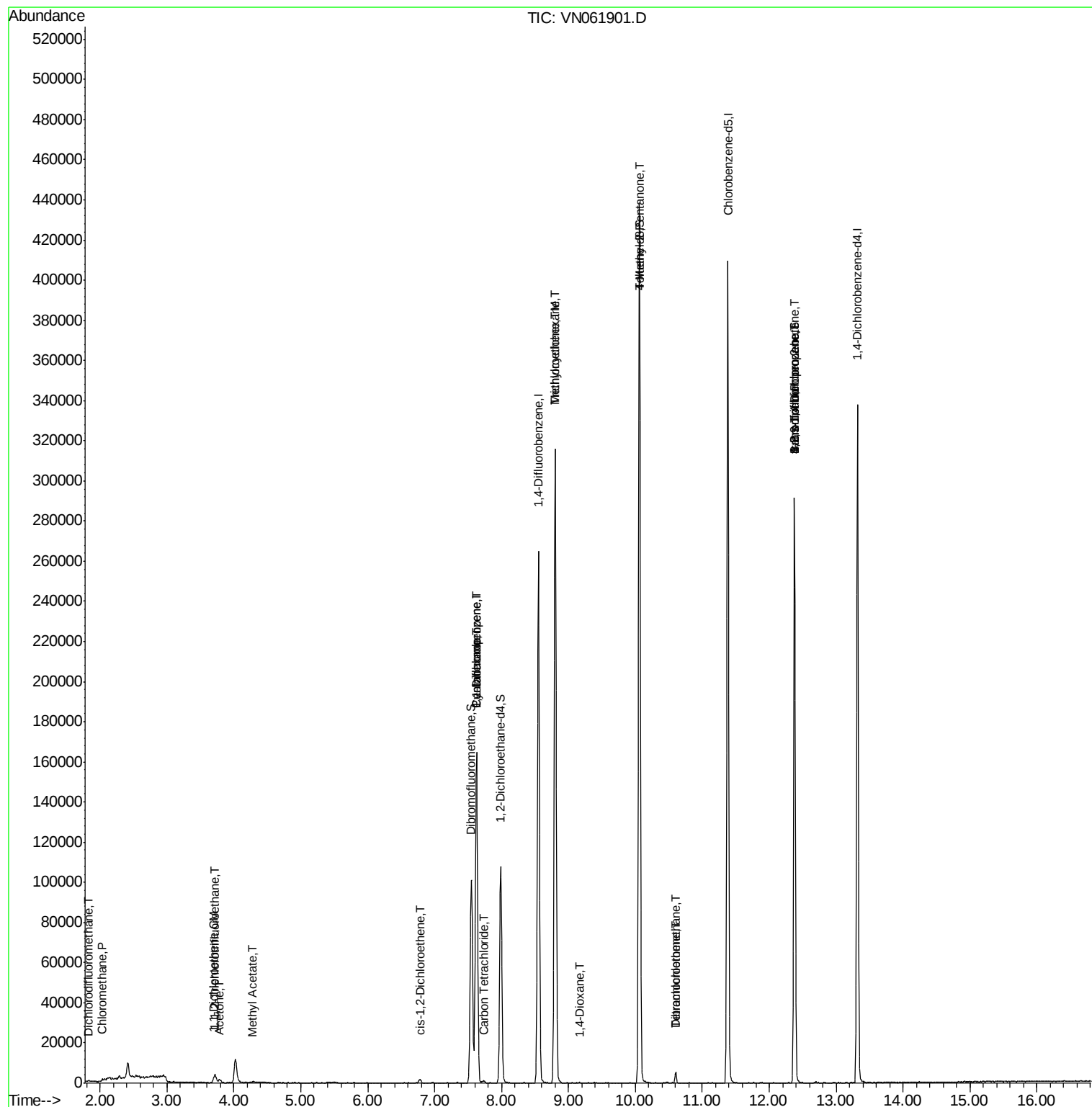
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	283	0.454	ug/l #	41
3) Chloromethane	2.04	50	760	0.411	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2920	2.159	ug/l	93
12) 1,1-Dichloroethene	3.69	96	499	0.368	ug/l #	66
16) Acetone	3.78	43	3124	5.913	ug/l	100
18) Methyl Acetate	4.29	43	605	0.398	ug/l #	46
27) cis-1,2-Dichloroethene	6.79	96	740	0.412	ug/l	85
31) Cyclohexane	7.63	56	2681	1.138	ug/l #	21
36) 1,1-Dichloropropene	7.63	75	10500	4.670	ug/l #	47
38) Carbon Tetrachloride	7.73	117	1187	0.533	ug/l #	73
39) Methylcyclohexane	8.80	83	1457	0.602	ug/l #	1
44) Trichloroethene	8.80	130	118506	66.118	ug/l	100
49) 1,4-Dioxane	9.17	88	251	8.125	ug/l #	38
51) 4-Methyl-2-Pentanone	10.06	43	1226	0.701	ug/l #	1
60) Dibromochloromethane	10.60	129	1378	0.734	ug/l #	11
64) Tetrachloroethene	10.61	164	1322	0.859	ug/l	89
71) Bromoform	12.38	173	929	0.717	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	51567	27.894	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	51567	76.080	ug/l #	14

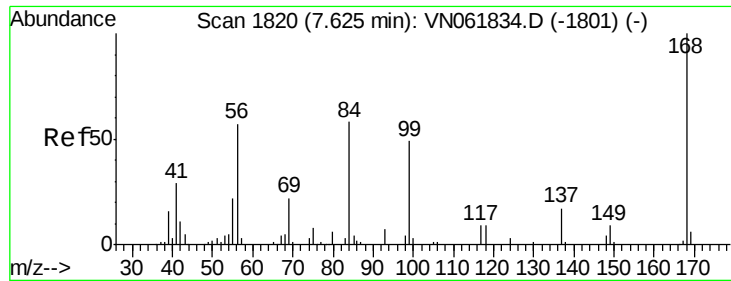
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

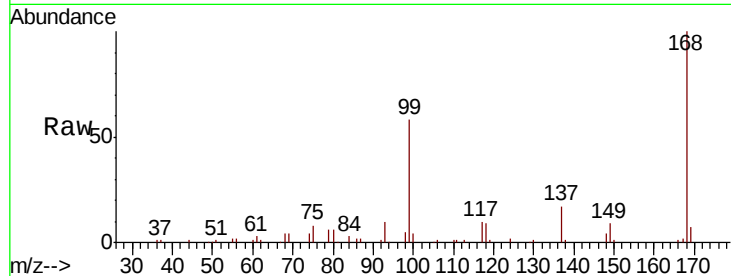
RE-DUP03-20200611

Tot Ion:168 Resp: 133355

Ion Ratio Lower Upper

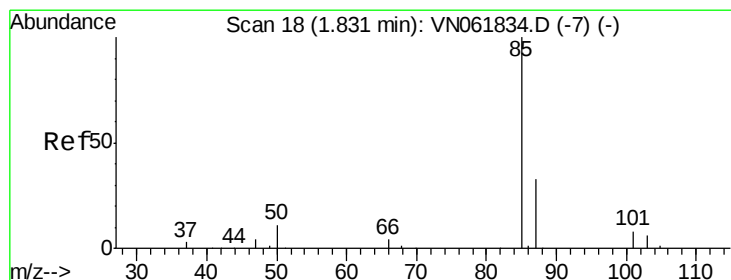
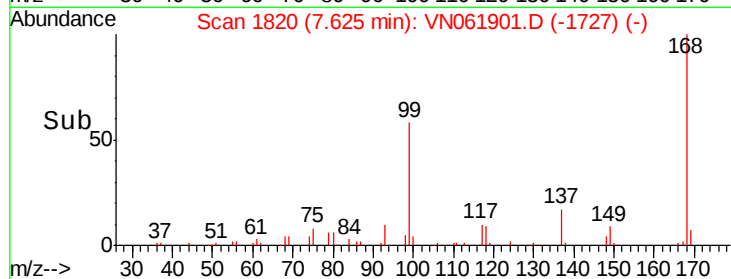
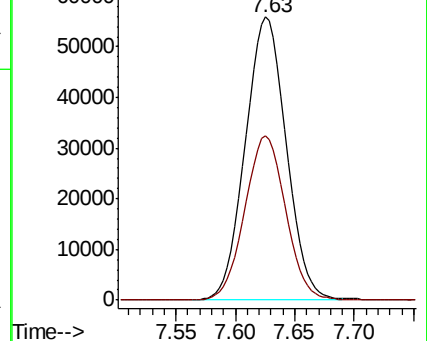
168 100

99 58.1 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.454 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN061901.D

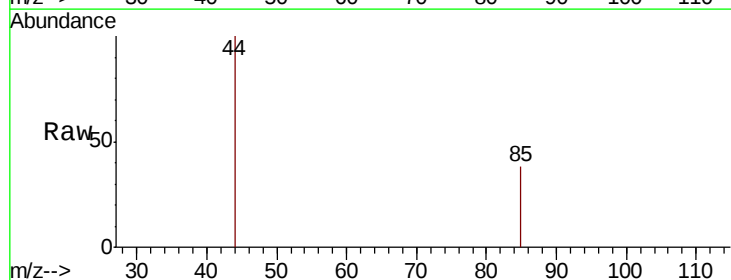
Acq: 18 Jun 2020 15:39

Tgt Ion: 85 Resp: 283

Ion Ratio Lower Upper

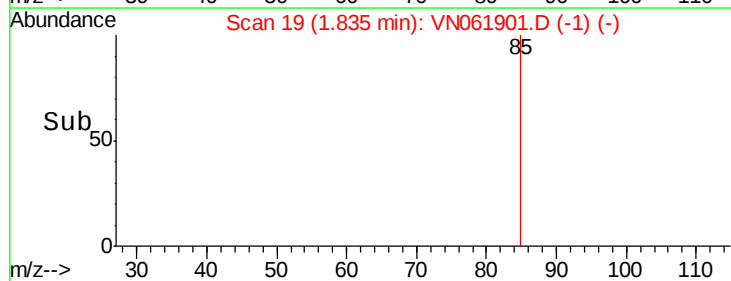
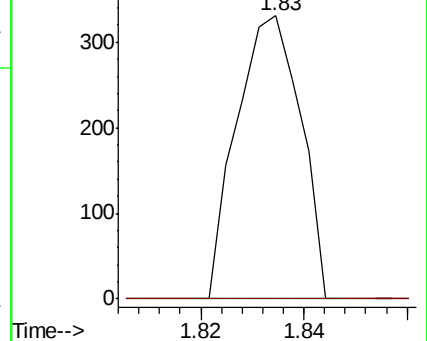
85 100

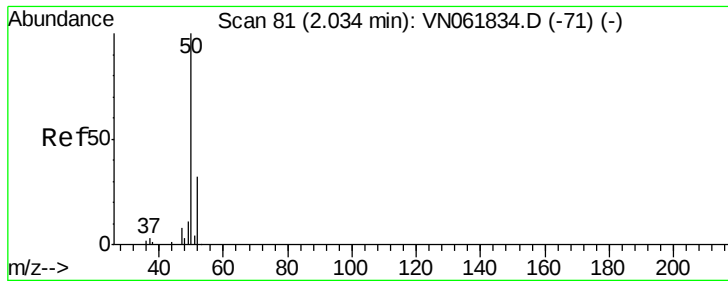
87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 0.411 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

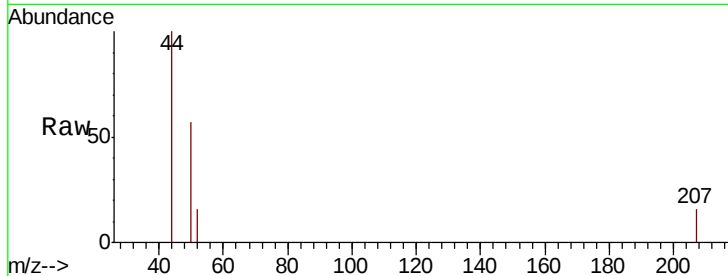
RE-DUP03-20200611

Tot Ion: 50 Resp: 760

Ion Ratio Lower Upper

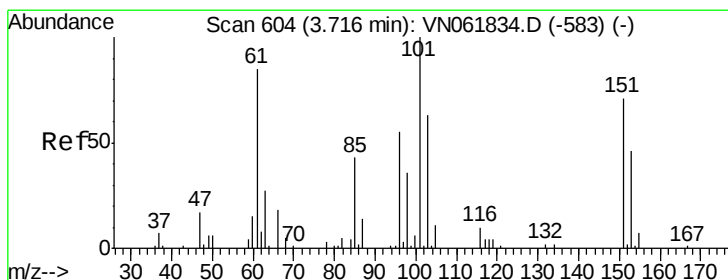
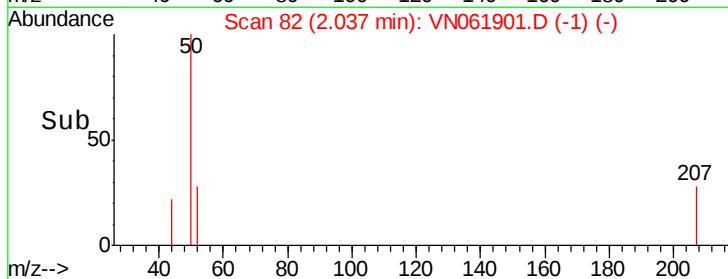
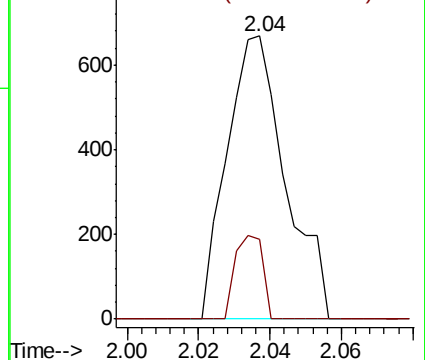
50 100

52 28.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN061834.D (-71) (-)

Ion 51.90 (51.60 to 52.60): VN061834.D (-71) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.159 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

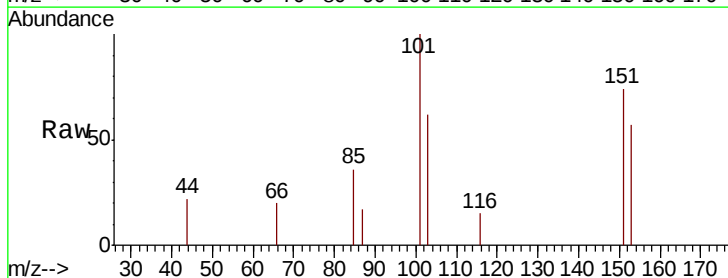
Tgt Ion: 101 Resp: 2920

Ion Ratio Lower Upper

101 100

85 35.4 35.0 52.6

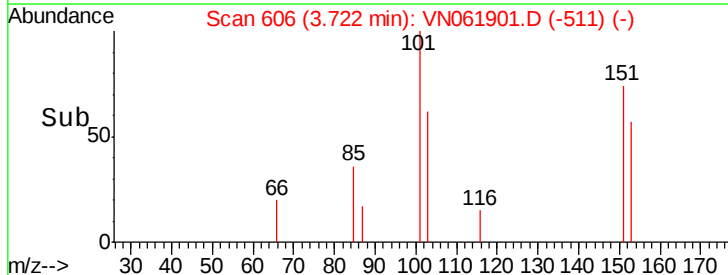
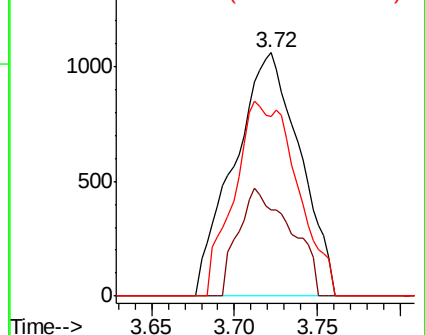
151 76.6 59.2 88.8

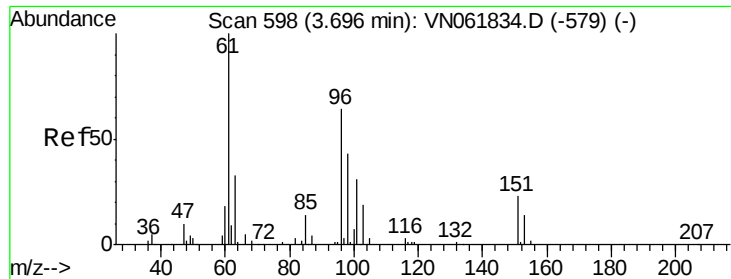


Abundance Ion 100.90 (100.60 to 101.60): VN061834.D (-583) (-)

Ion 84.90 (84.60 to 85.60): VN061834.D (-583) (-)

Ion 150.80 (150.50 to 151.50): VN061834.D (-583) (-)





#12

1,1-Dichloroethene

Concen: 0.368 ug/l

RT: 3.69 min Scan# 596

Delta R.T. -0.01 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

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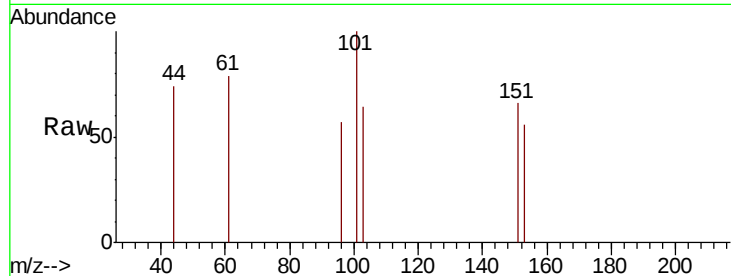
Tot Ion: 96 Resp: 499

Ion Ratio Lower Upper

96 100

61 138.5 124.3 186.5

98 0.0 53.1 79.7#

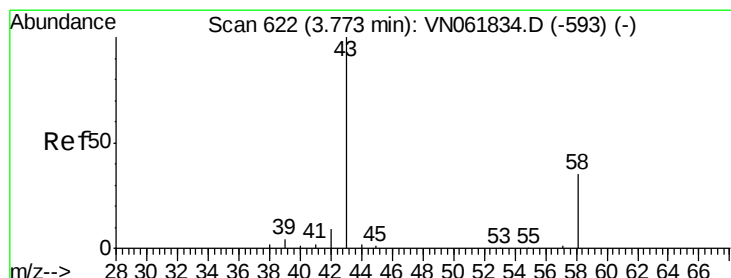
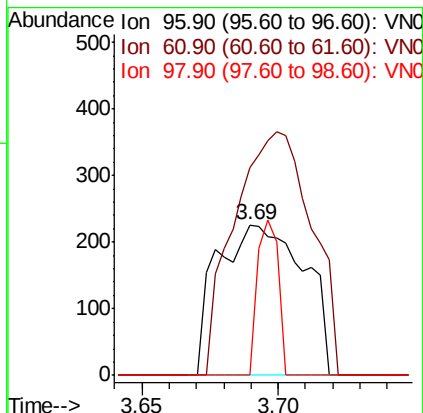
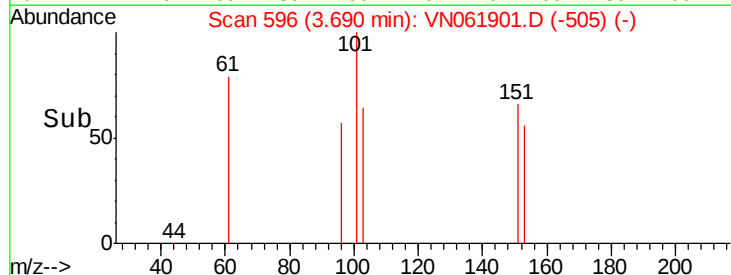


Abundance Ion 95.90 (95.60 to 96.60): VN061834.D (-579) (-)

Ion 60.90 (60.60 to 61.60): VN061834.D (-579) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-579) (-)

Time-->



#16

Acetone

Concen: 5.913 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061901.D

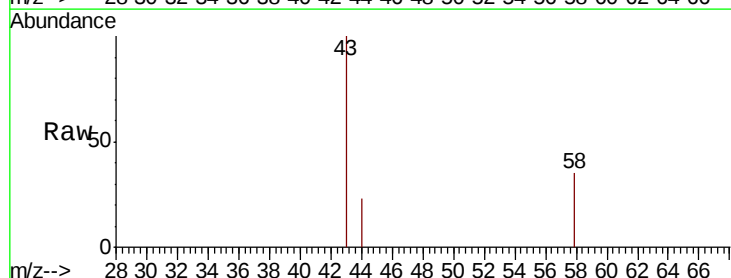
Acq: 18 Jun 2020 15:39

Tgt Ion: 43 Resp: 3124

Ion Ratio Lower Upper

43 100

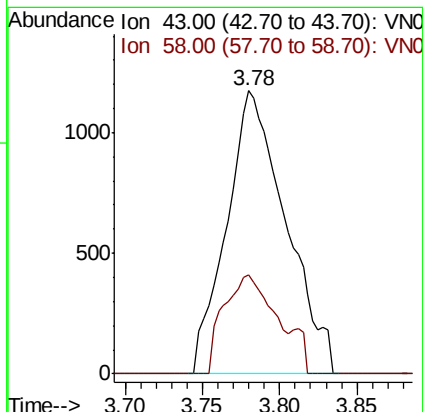
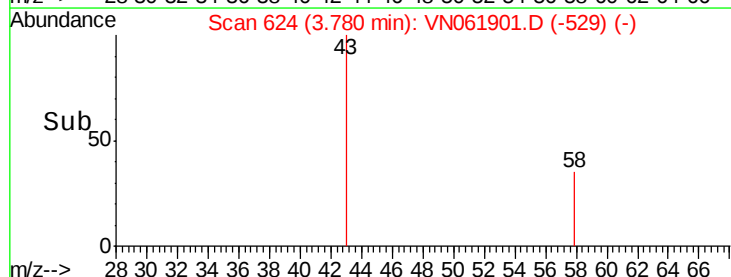
58 35.0 27.8 41.8

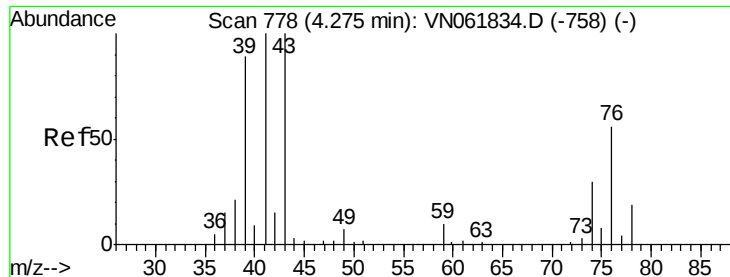


Abundance Ion 43.00 (42.70 to 43.70): VN061901.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN061901.D (-529) (-)

Time-->

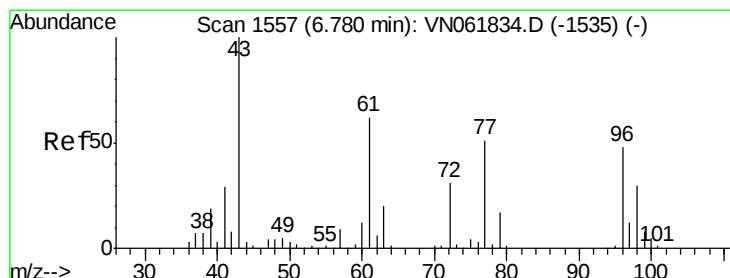
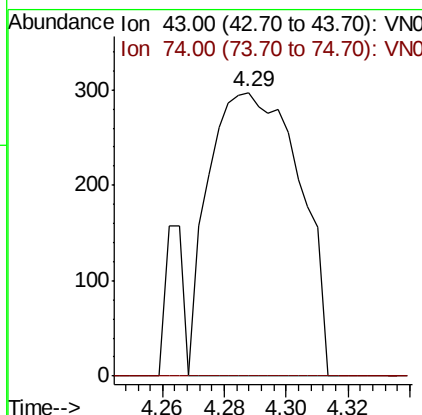
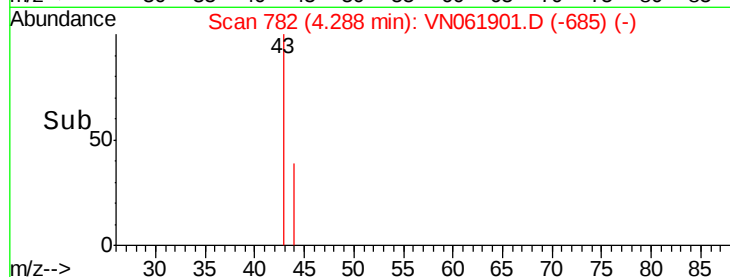
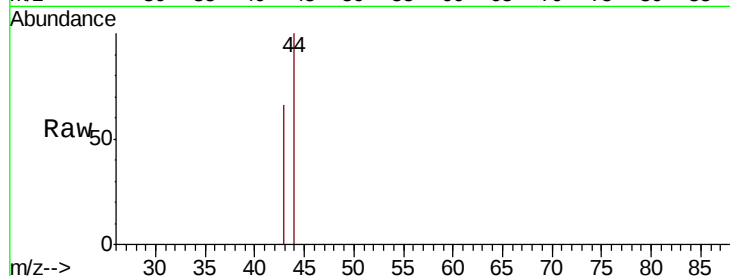




#18
Methvl Acetate
Concen: 0.398 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061901.D
Acq: 18 Jun 2020 15:39

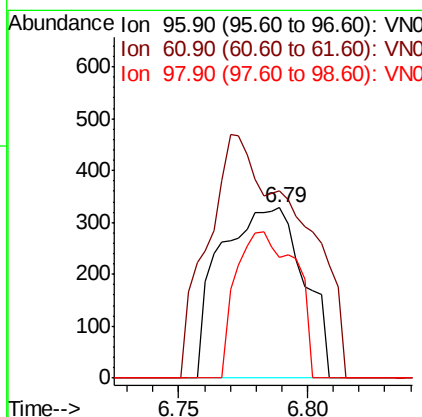
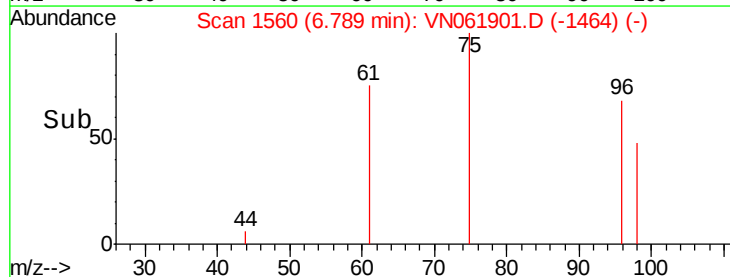
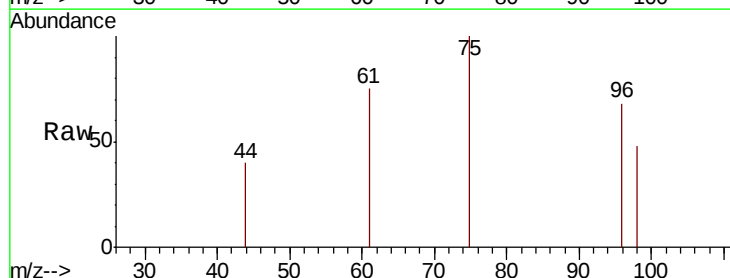
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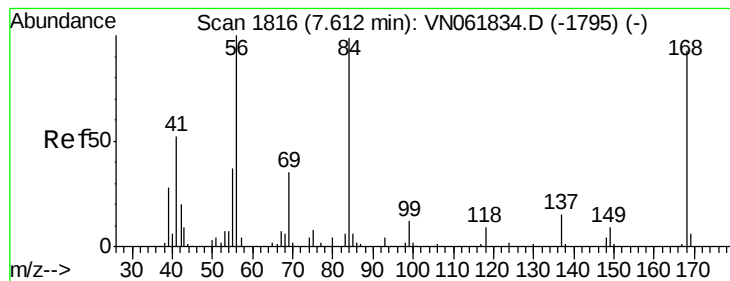
Tot Ion: 43 Resp: 605
Ion Ratio Lower Upper
43 100
74 0.0 23.0 34.4#



#27
cis-1,2-Dichloroethene
Concen: 0.412 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN061901.D
Acq: 18 Jun 2020 15:39

Tgt Ion: 96 Resp: 740
Ion Ratio Lower Upper
96 100
61 156.5 0.0 265.6
98 61.2 0.0 128.2





#31

Cyclohexane

Concen: 1.138 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

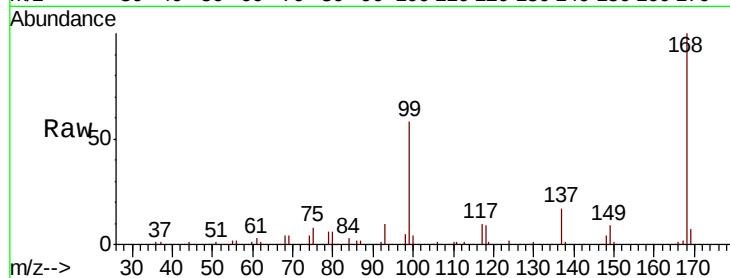
Tot Ion: 56 Resp: 2681

Ion Ratio Lower Upper

56 100

69 165.4 27.7 41.5#

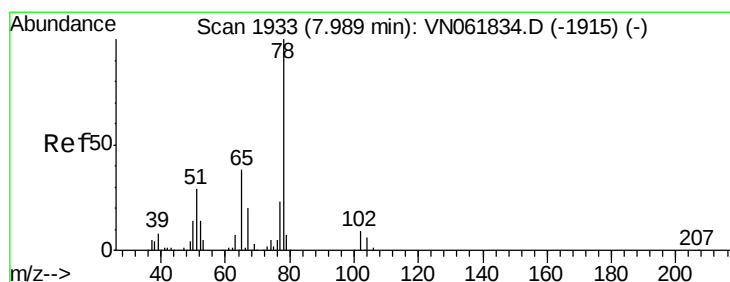
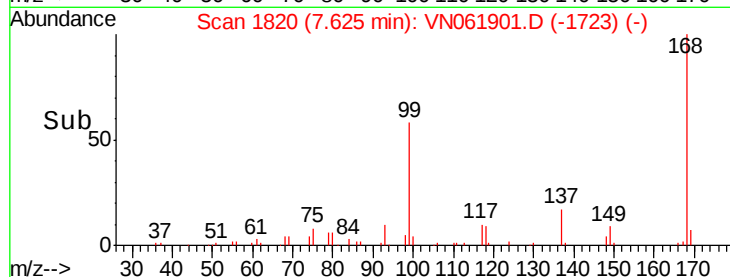
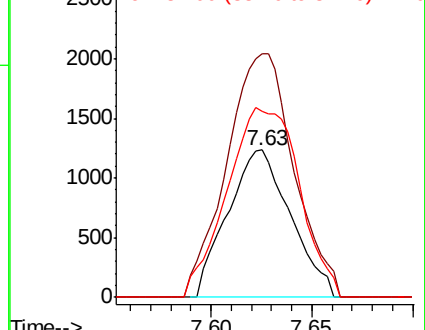
84 126.7 79.1 118.7#



Abundance Ion 56.00 (55.70 to 56.70): VN061834.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN061834.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN061834.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.360 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061901.D

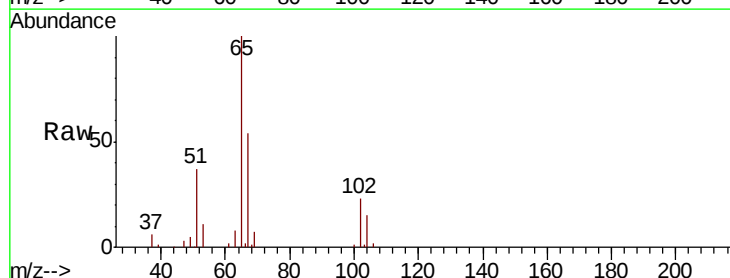
Acq: 18 Jun 2020 15:39

Tgt Ion: 65 Resp: 90069

Ion Ratio Lower Upper

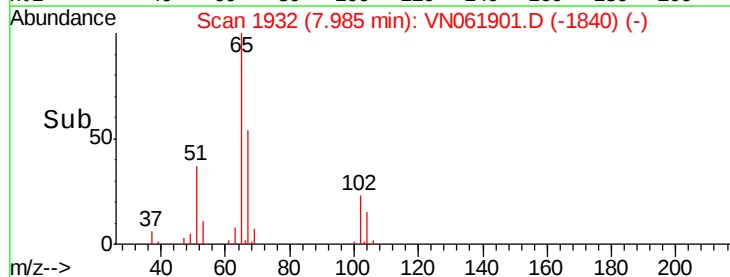
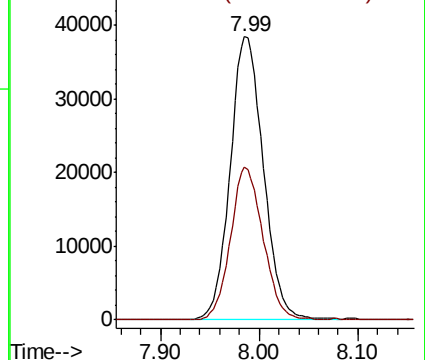
65 100

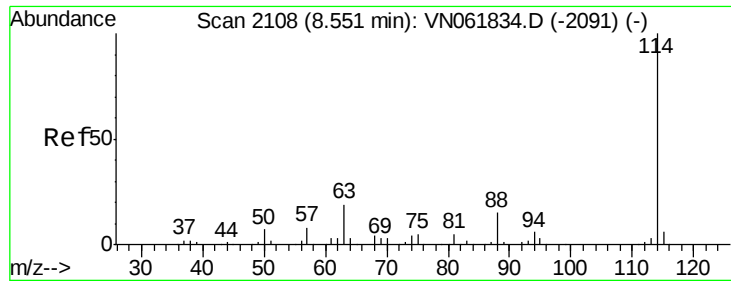
67 52.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061834.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN061834.D (-1915) (-)

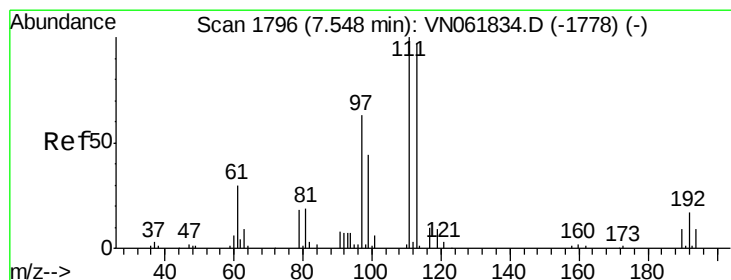
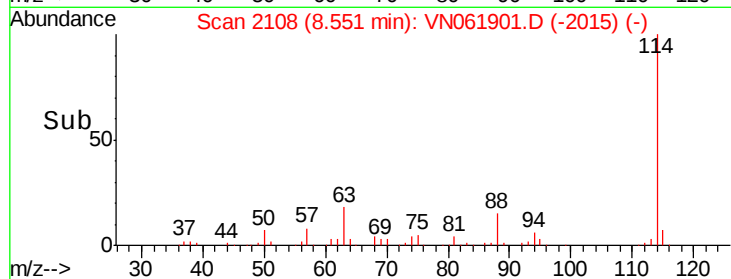
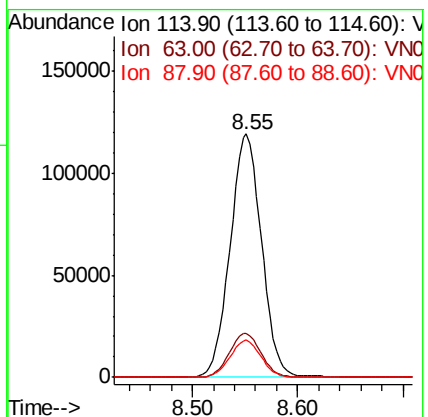
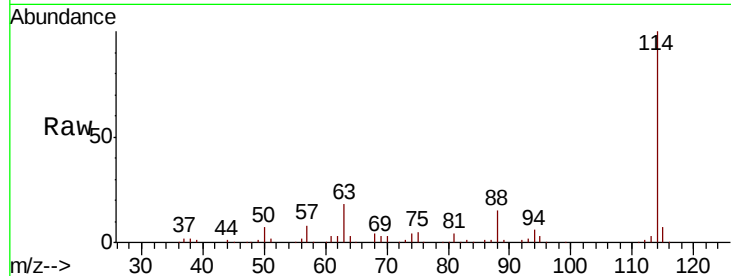




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061901.D
Acq: 18 Jun 2020 15:39

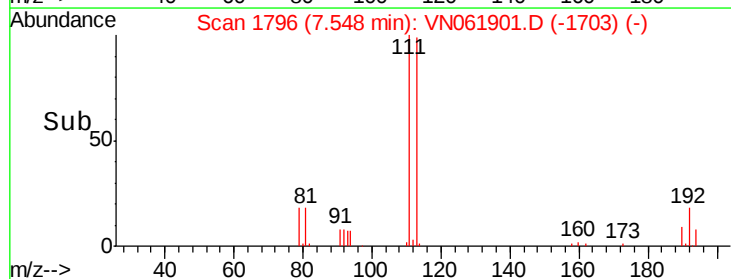
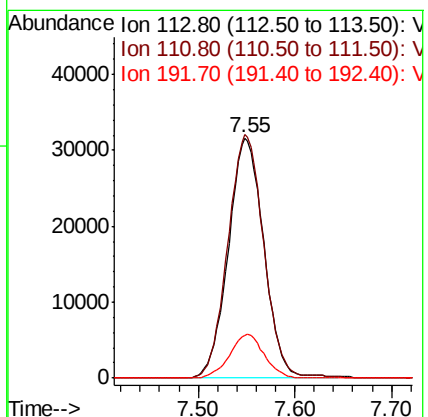
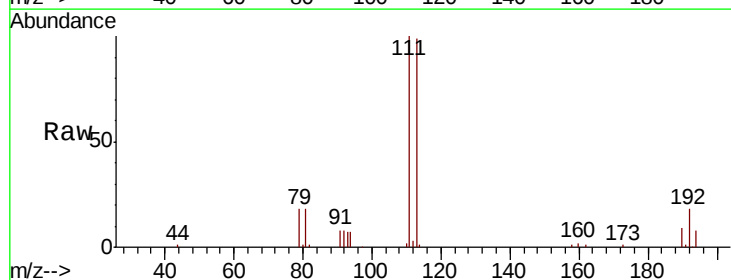
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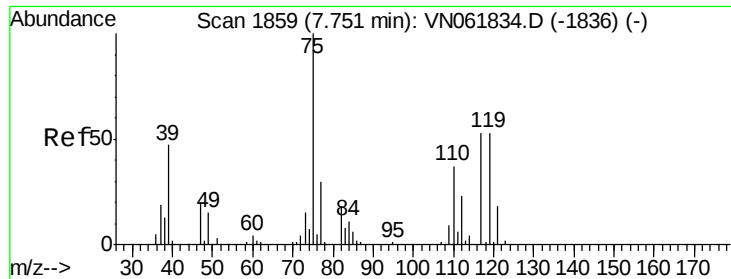
Tot Ion:114 Resp: 246489
Ion Ratio Lower Upper
114 100
63 17.8 0.0 37.6
88 15.2 0.0 31.0



#35
Dibromofluoromethane
Concen: 51.187 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061901.D
Acq: 18 Jun 2020 15:39

Tgt Ion:113 Resp: 80717
Ion Ratio Lower Upper
113 100
111 101.4 83.7 125.5
192 17.6 13.9 20.9

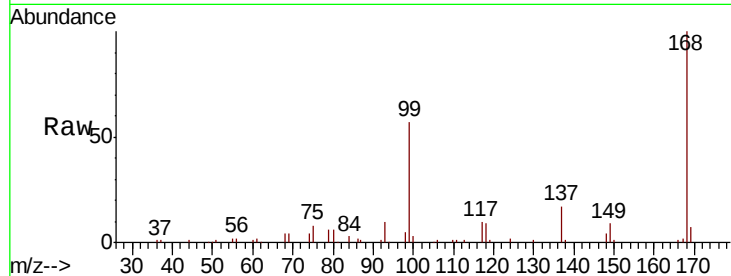




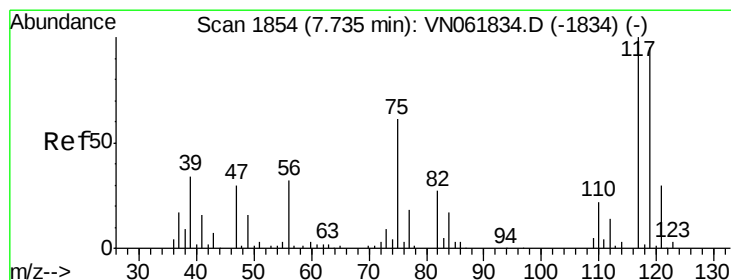
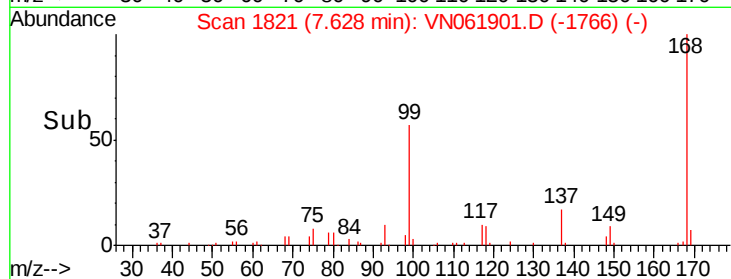
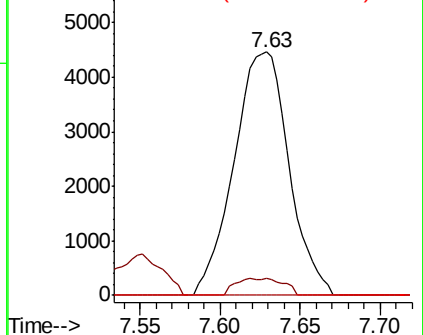
#36
 1,1-Dichloropropene
 Concen: 4.670 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061901.D
 Acq: 18 Jun 2020 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 RE-DUP03-20200611

Tot Ion	75	Resp	10500
Ion Ratio	Lower	Upper	
75	100		
110	6.1	18.2	54.6#
77	0.0	24.2	36.4#

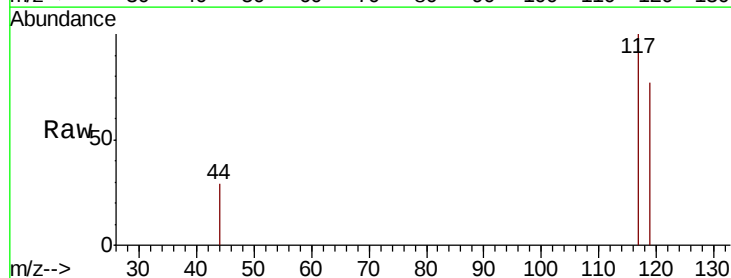


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)
 Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)
 Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

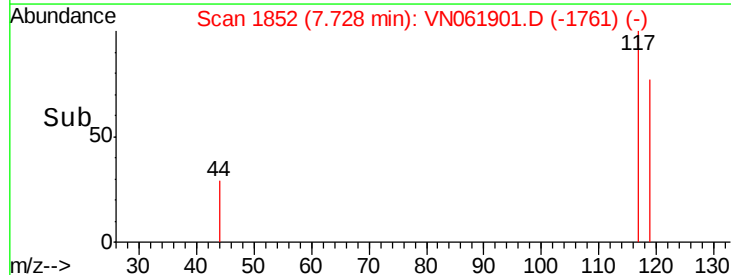
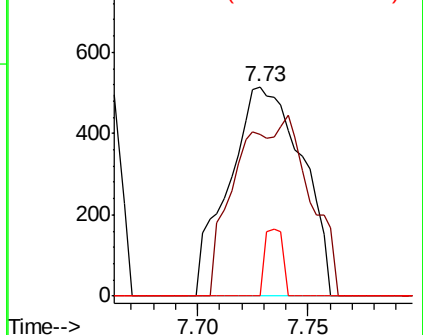


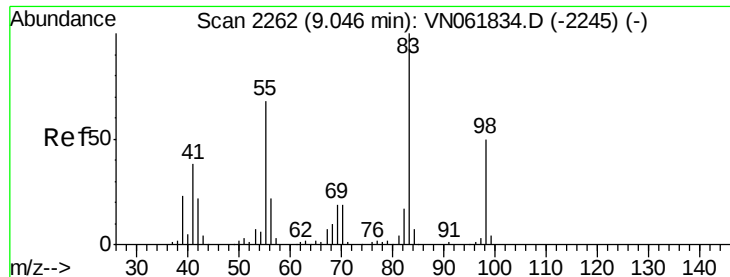
#38
 Carbon Tetrachloride
 Concen: 0.533 ug/l
 RT: 7.73 min Scan# 1852
 Delta R.T. -0.01 min
 Lab File: VN061901.D
 Acq: 18 Jun 2020 15:39

Tgt Ion	117	Resp	1187
Ion Ratio	Lower	Upper	
117	100		
119	77.1	75.8	113.6
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)
 Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)
 Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)





#39

Methylcyclohexane

Concen: 0.602 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

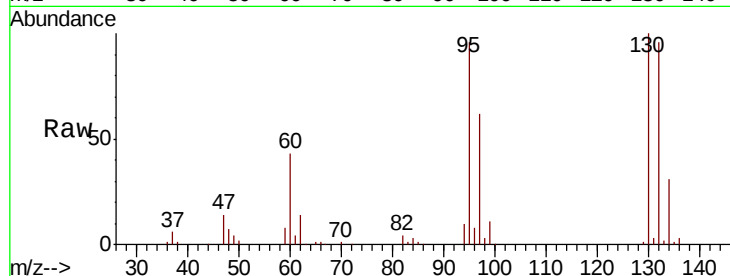
Tot Ion: 83 Resp: 1457

Ion Ratio Lower Upper

83 100

55 0.0 54.2 81.4#

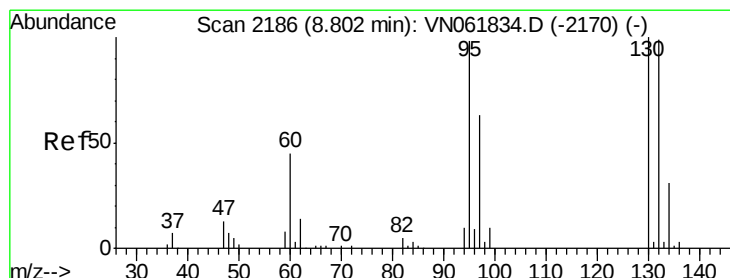
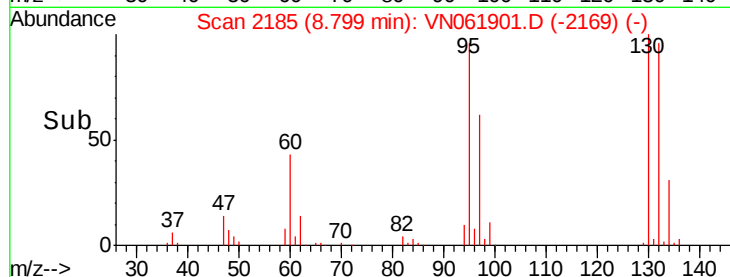
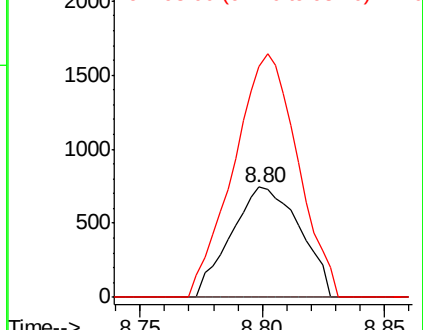
98 209.4 39.8 59.6#



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: 66.118 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061901.D

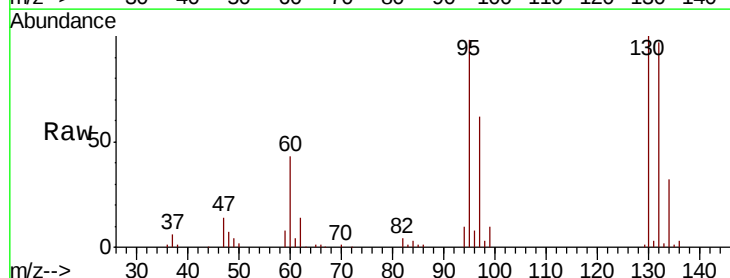
Acq: 18 Jun 2020 15:39

Tgt Ion:130 Resp: 118506

Ion Ratio Lower Upper

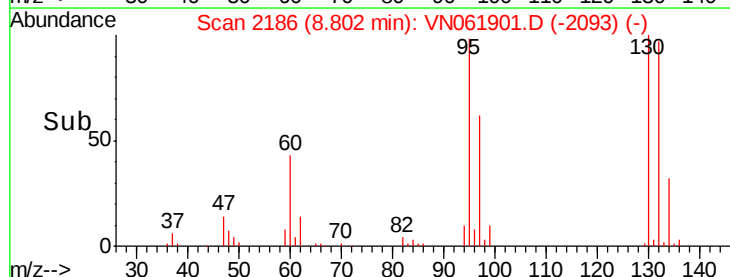
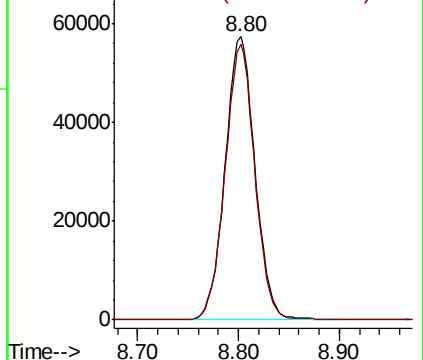
130 100

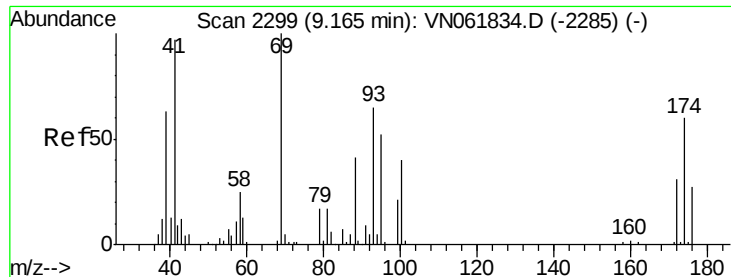
95 97.6 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#49

1,4-Dioxane

Concen: 8.125 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

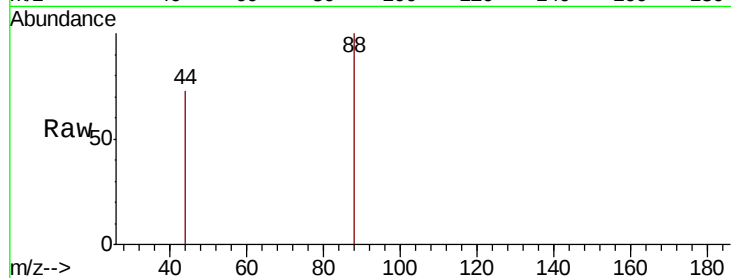
Tot Ion: 88 Resp: 251

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

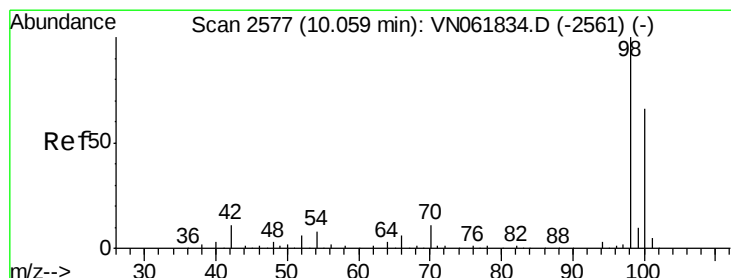
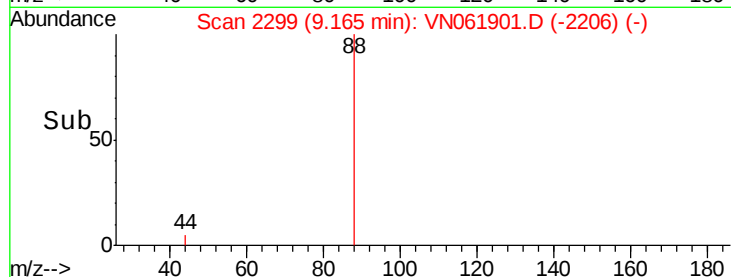
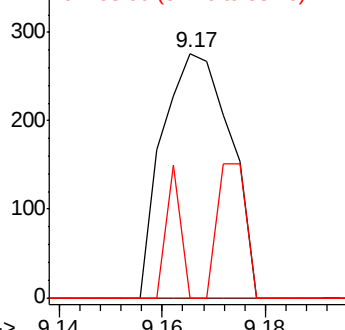
58 11.6 49.8 74.6#



Abundance Ion 88.00 (87.70 to 88.70): VN061834.D (-2285) (-)

Ion 43.00 (42.70 to 43.70): VN061834.D (-2285) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2285) (-)



#50

Toluene-d8

Concen: 50.009 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061901.D

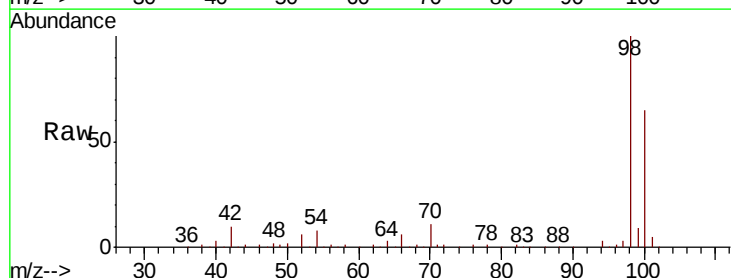
Acq: 18 Jun 2020 15:39

Tgt Ion: 98 Resp: 310029

Ion Ratio Lower Upper

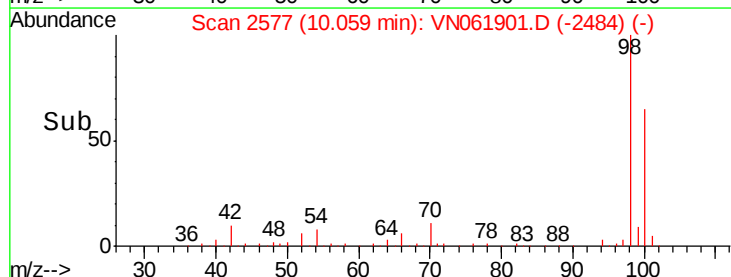
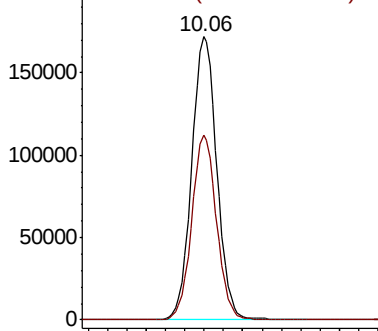
98 100

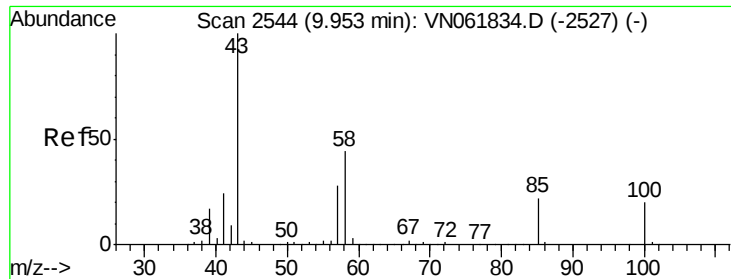
100 64.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

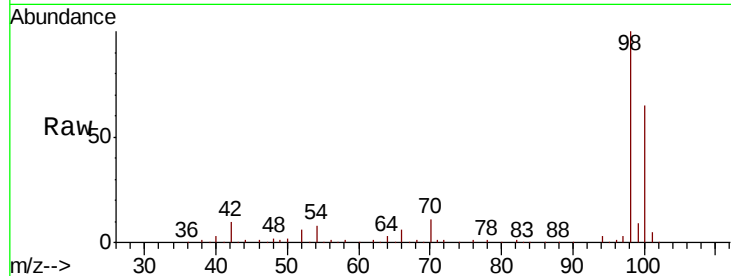




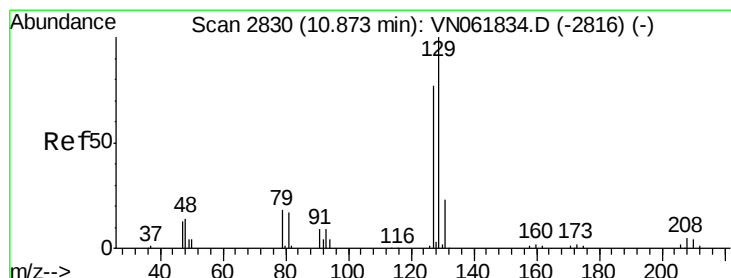
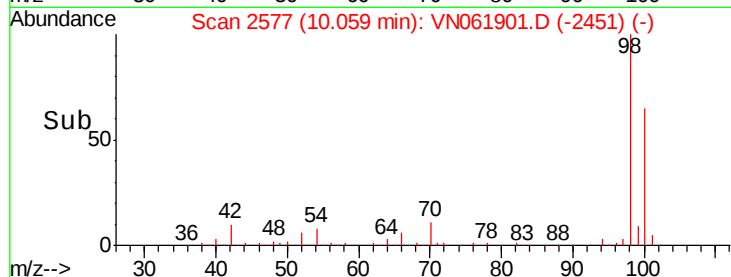
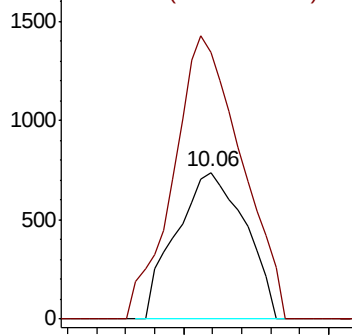
#51
 4-Methyl-2-Pentanone
 Concen: 0.701 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. 0.11 min
 Lab File: VN061901.D
 Acq: 18 Jun 2020 15:39

Instrument :
 MSVOA_N
 ClientSampleId :
 RE-DUP03-20200611

Tot Ion: 43 Resp: 1226
 Ion Ratio Lower Upper
 43 100
 58 189.5 34.6 52.0#

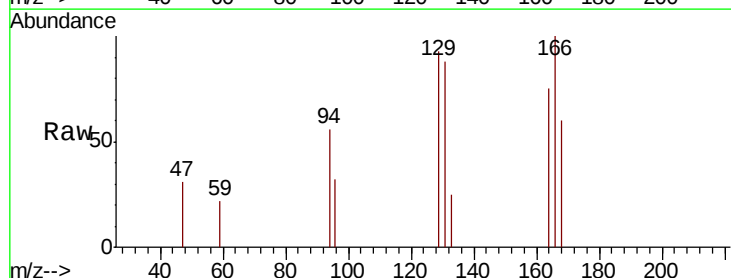


Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)
 Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

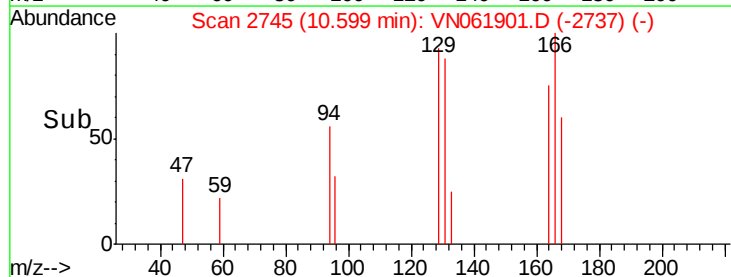
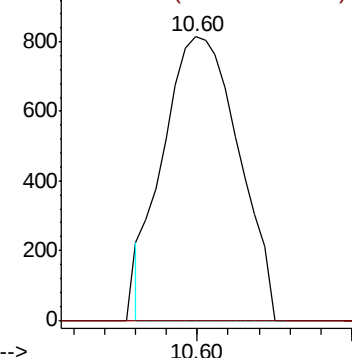


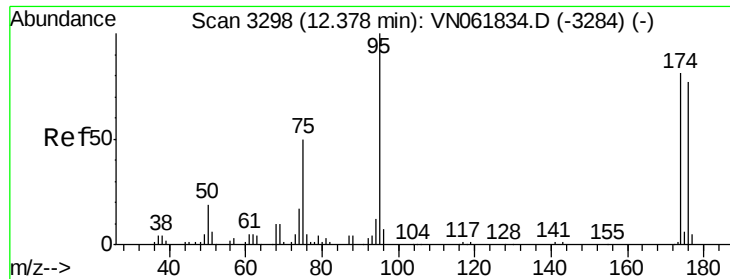
#60
 Dibromochloromethane
 Concen: 0.734 ug/l
 RT: 10.60 min Scan# 2745
 Delta R.T. -0.27 min
 Lab File: VN061901.D
 Acq: 18 Jun 2020 15:39

Tgt Ion: 129 Resp: 1378
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): VN061834.D (-2816) (-)
 Ion 126.80 (126.50 to 127.50): VN061834.D (-2816) (-)





#62

4-Bromofluorobenzene

Concen: 48.145 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

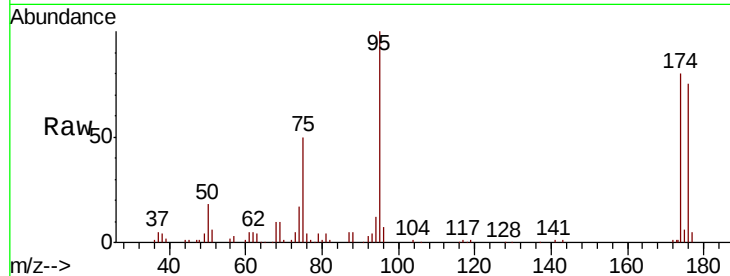
Tot Ion: 95 Resp: 102380

Ion Ratio Lower Upper

95 100

174 78.8 0.0 158.6

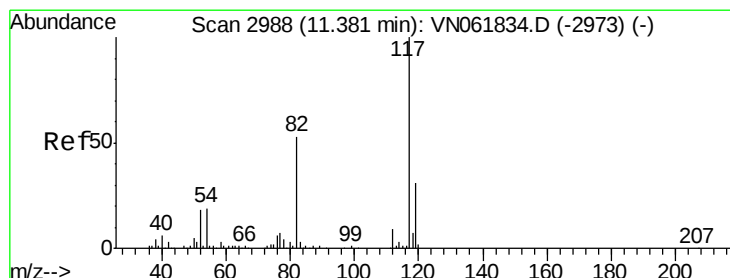
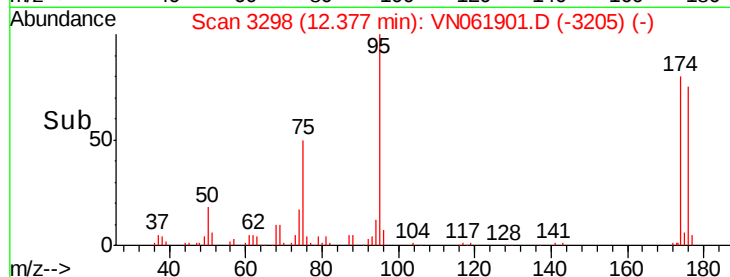
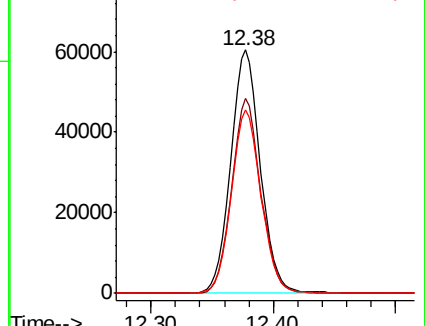
176 75.6 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

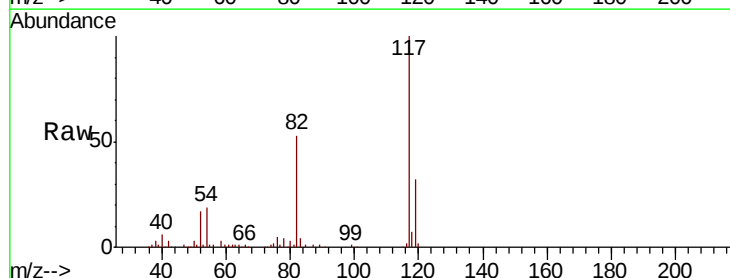
Tgt Ion: 117 Resp: 241444

Ion Ratio Lower Upper

117 100

82 53.3 42.6 64.0

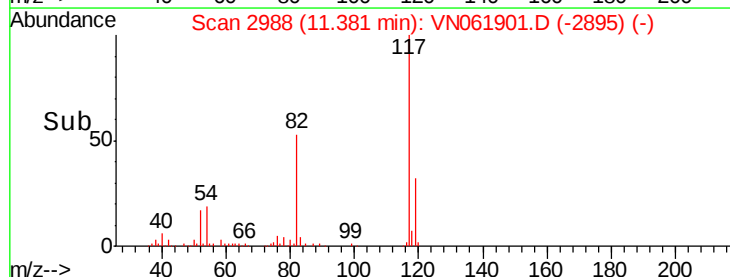
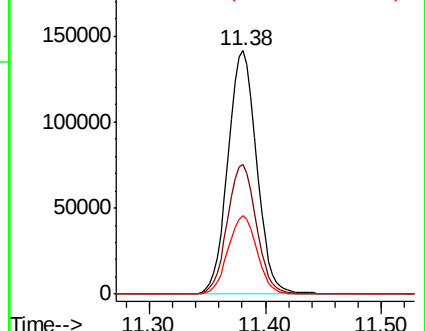
119 32.1 24.7 37.1

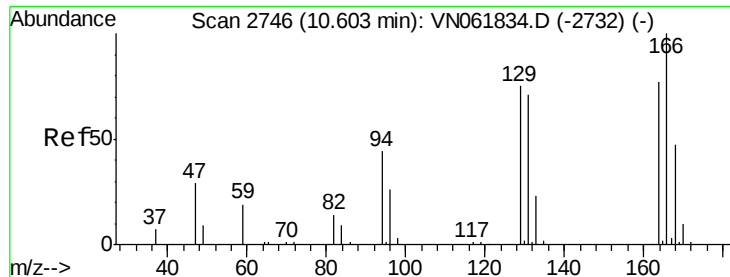


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#64

Tetrachloroethene

Concen: 0.859 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. 0.00 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

Tot Ion:164 Resp: 1322

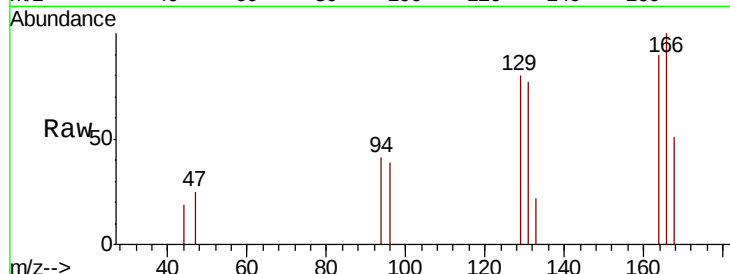
Ion Ratio Lower Upper

164 100

166 111.4 103.5 155.3

129 89.1 77.5 116.3

131 85.7 73.8 110.8



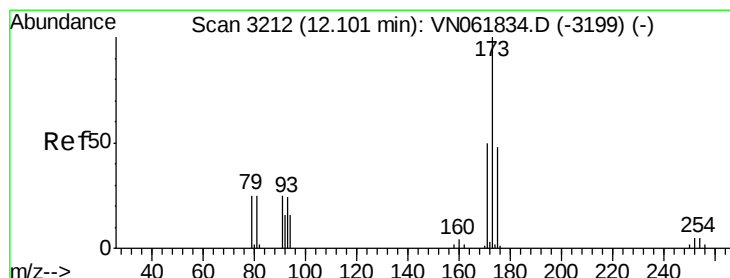
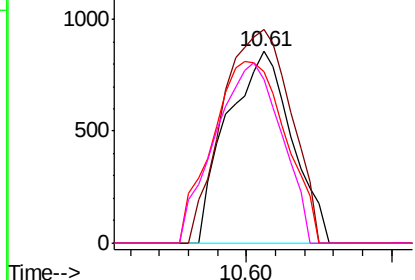
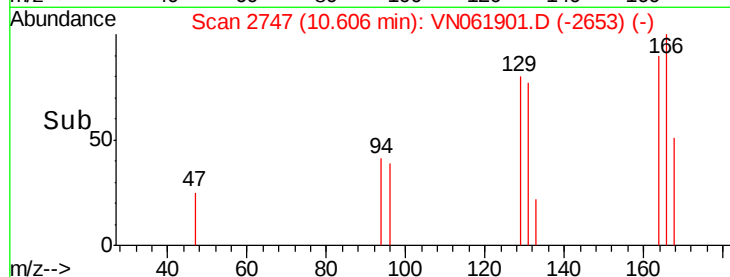
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.717 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

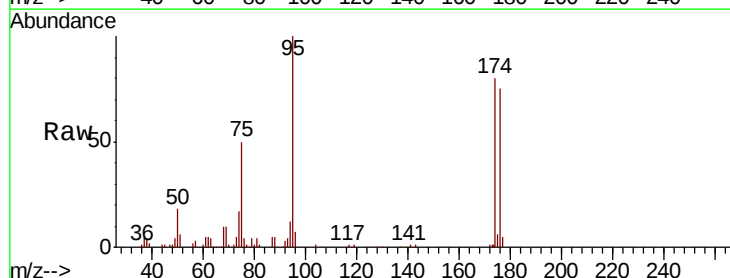
Tgt Ion:173 Resp: 929

Ion Ratio Lower Upper

173 100

175 561.1 23.9 71.7#

254 0.0 0.0 0.0

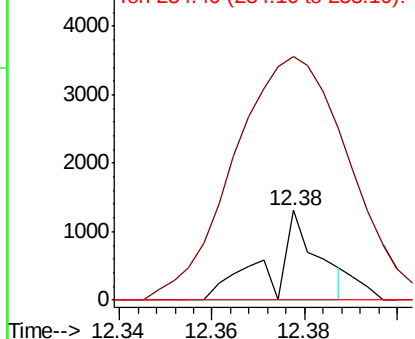
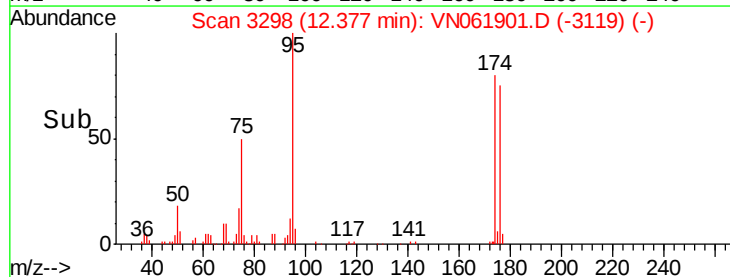


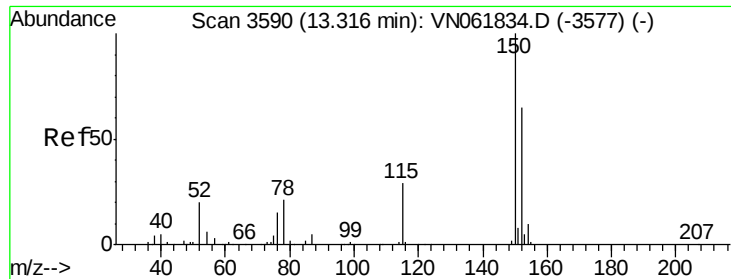
Abundance

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: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

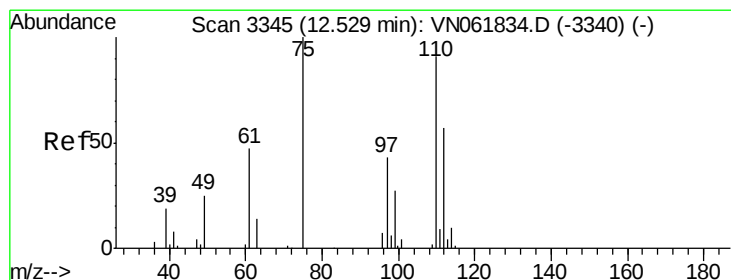
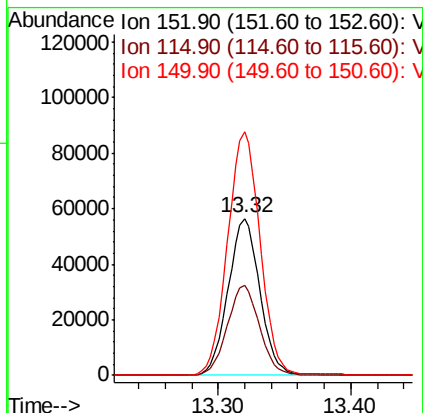
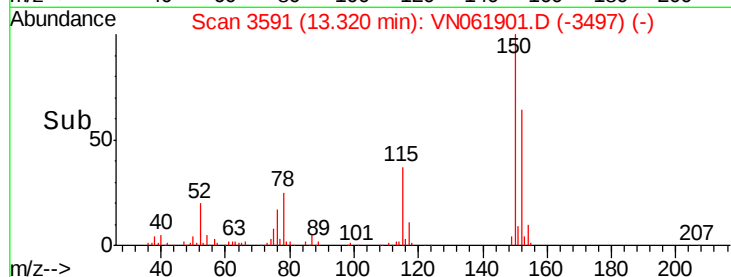
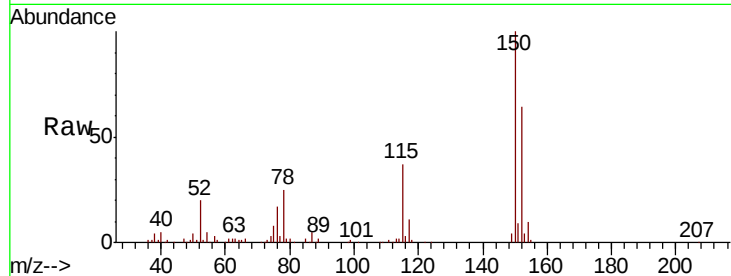
Tot Ion:152 Resp: 94163

Ion Ratio Lower Upper

152 100

115 58.3 29.1 87.3

150 158.5 0.0 347.6



#76

1,2,3-Trichloropropane

Concen: 27.894 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061901.D

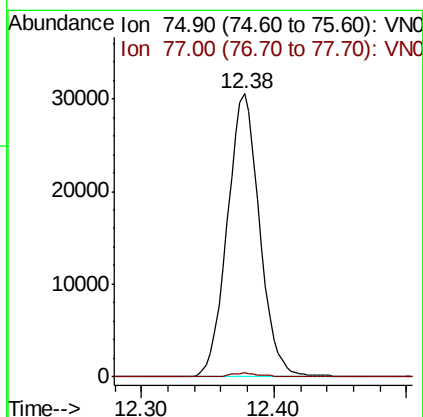
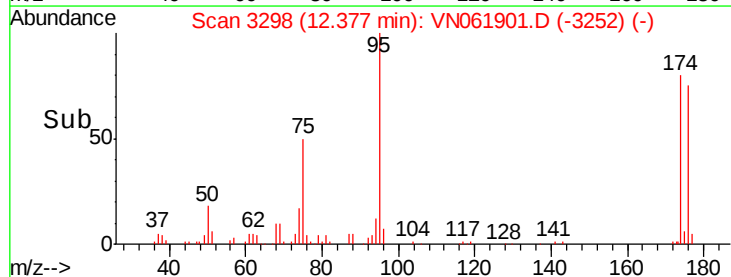
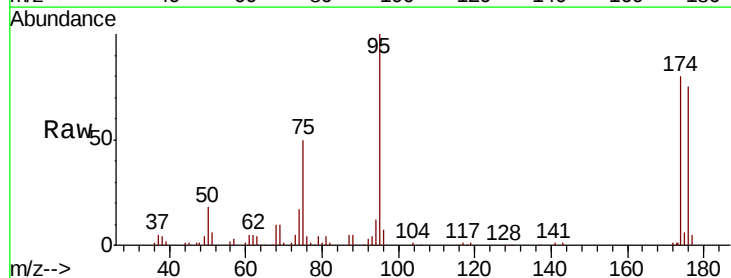
Acq: 18 Jun 2020 15:39

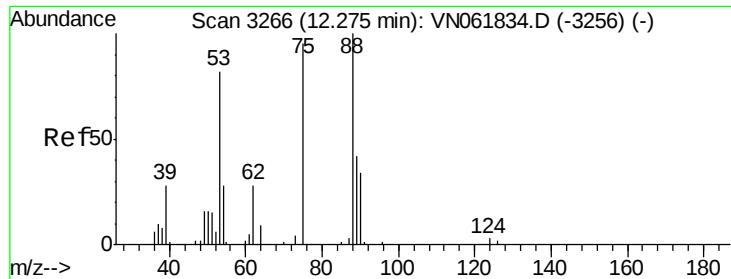
Tgt Ion: 75 Resp: 51567

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 76.080 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061901.D

Acq: 18 Jun 2020 15:39

Instrument :

MSVOA_N

ClientSampleId :

RE-DUP03-20200611

Tot Ion: 75 Resp: 51567

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

