

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061872.D
 Acq On : 18 Jun 2020 1:28
 Operator : JC/MD
 Sample : L3011-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D3-20200611

Quant Time: Jun 18 04:00:40 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	139114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	251297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	239758	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	90806	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	91991	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	7.55	113	81588	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.06	98	314141	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	12.38	95	101136	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

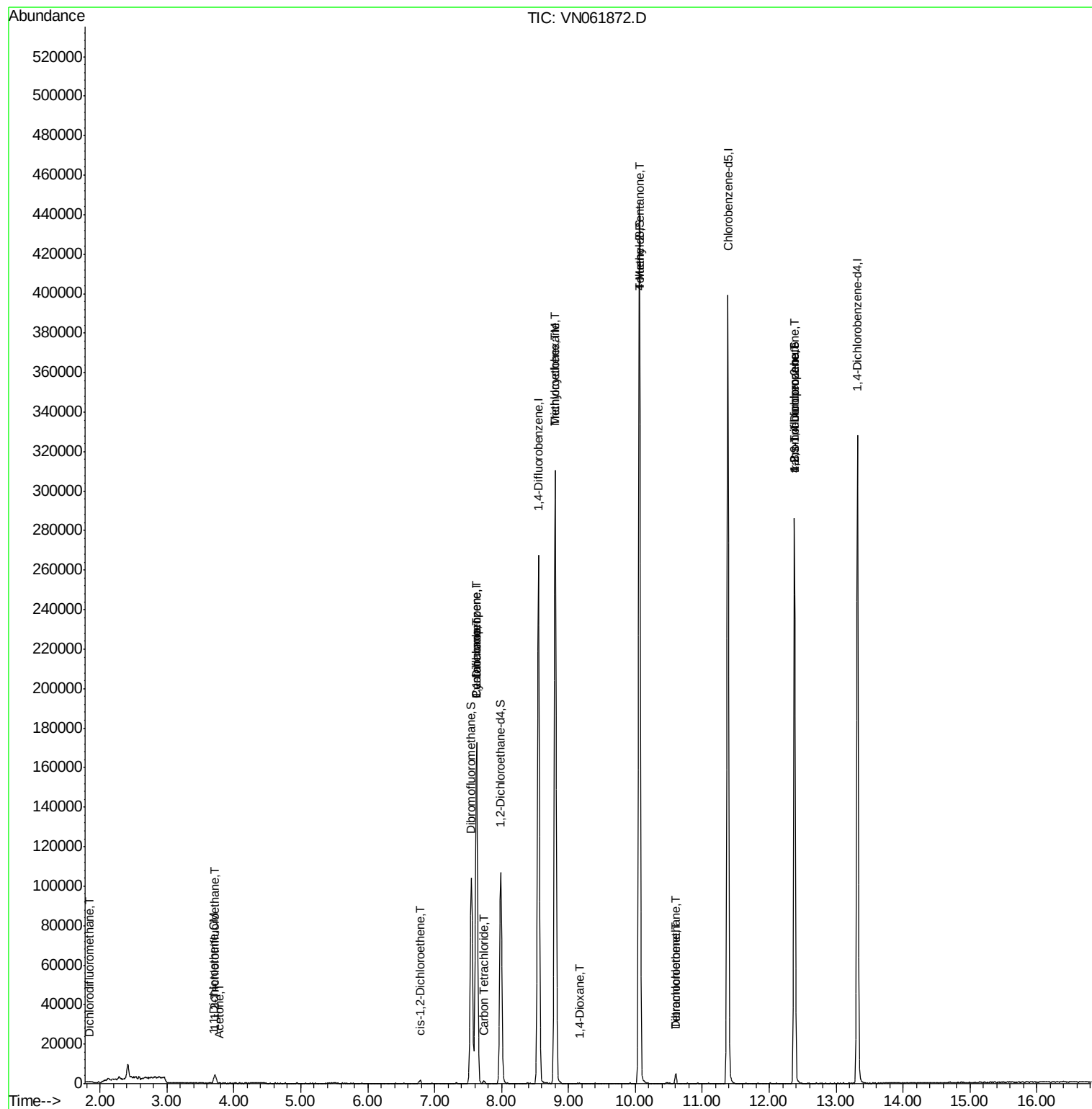
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	240	0.423	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2857	2.025	ug/l	95
12) 1,1-Dichloroethene	3.69	96	287	0.203	ug/l #	69
16) Acetone	3.78	43	220	0.399	ug/l #	40
27) cis-1,2-Dichloroethene	6.79	96	635	0.339	ug/l	70
31) Cyclohexane	7.63	56	3002	1.221	ug/l #	25
36) 1,1-Dichloropropene	7.62	75	10931	4.769	ug/l #	48
38) Carbon Tetrachloride	7.74	117	1119	0.493	ug/l #	77
39) Methylcyclohexane	8.80	83	1246	0.505	ug/l #	1
44) Trichloroethene	8.80	130	116451	63.728	ug/l	99
49) 1,4-Dioxane	9.17	88	139	4.414	ug/l #	28
51) 4-Methyl-2-Pentanone	10.06	43	1076	0.604	ug/l #	1
60) Dibromochloromethane	10.61	129	1175	0.614	ug/l #	11
64) Tetrachloroethene	10.60	164	1134	0.742	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	50119	28.113	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50119	76.677	ug/l #	14

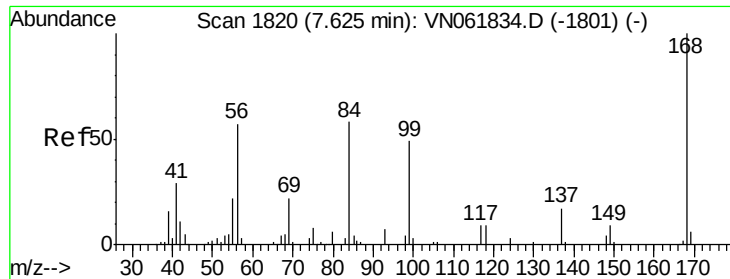
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

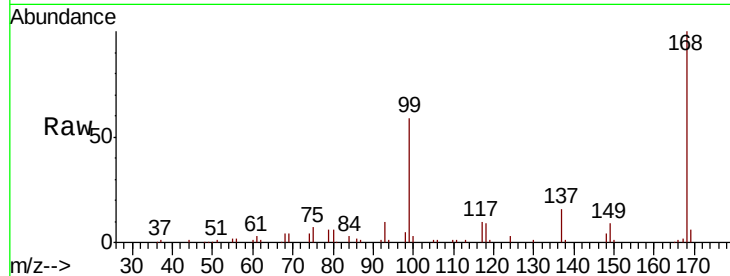
RE109D3-20200611

Tot Ion:168 Resp: 139114

Ion Ratio Lower Upper

168 100

99 58.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

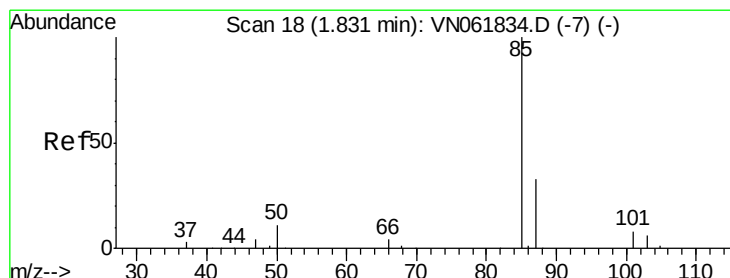
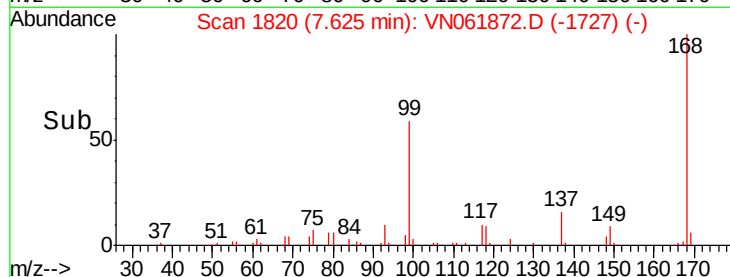
40000

20000

0

7.50 7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.423 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN061872.D

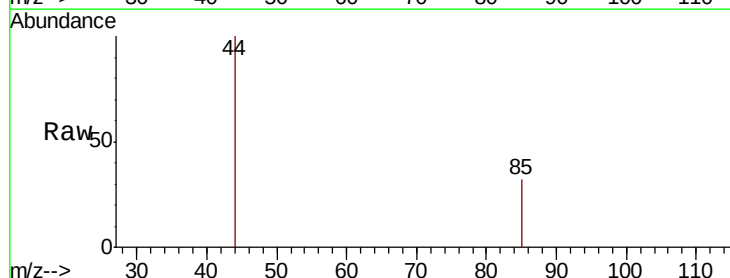
Acq: 18 Jun 2020 1:28

Tgt Ion: 85 Resp: 240

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

300

250

200

150

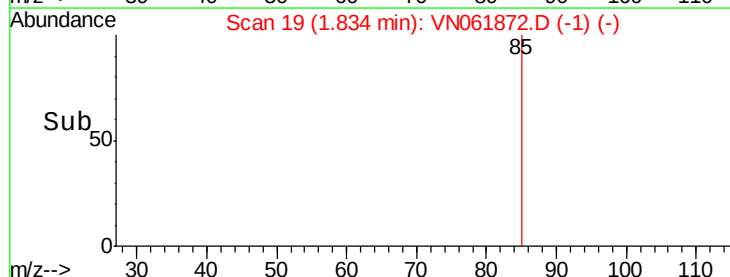
100

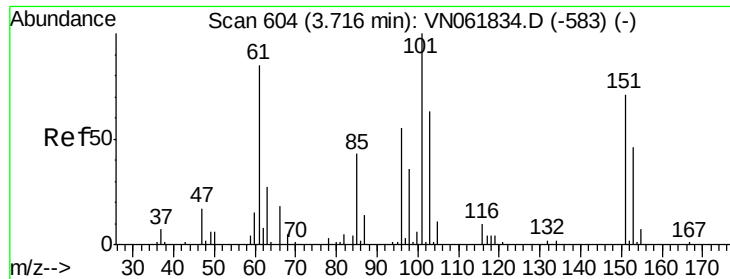
50

0

1.82 1.84 1.86

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.025 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RE109D3-20200611

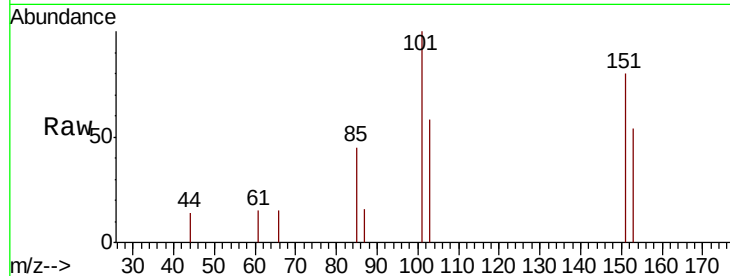
Tot Ion:101 Resp: 2857

Ion Ratio Lower Upper

101 100

85 42.1 35.0 52.6

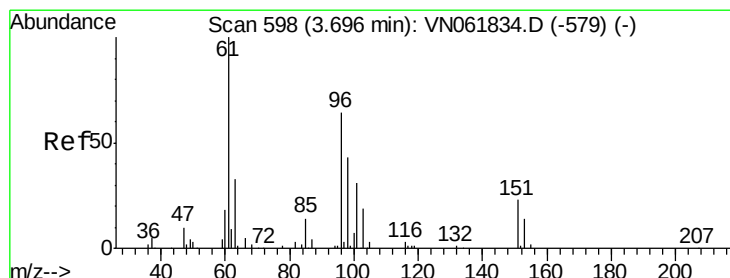
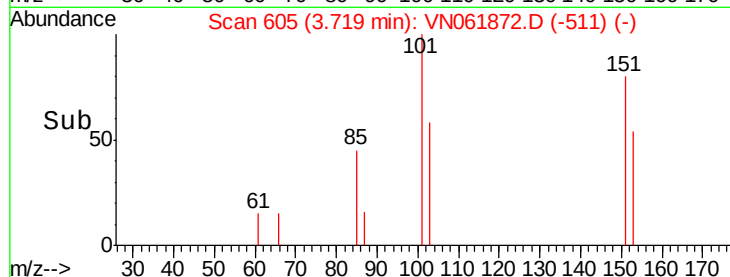
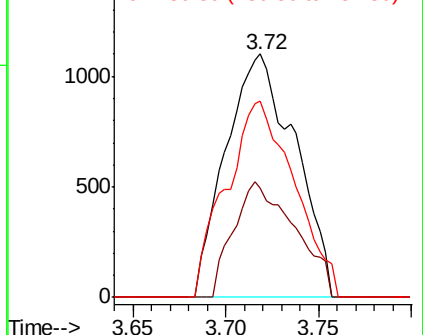
151 79.3 59.2 88.8



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



#12

1,1-Dichloroethene

Concen: 0.203 ug/l

RT: 3.69 min Scan# 596

Delta R.T. -0.01 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

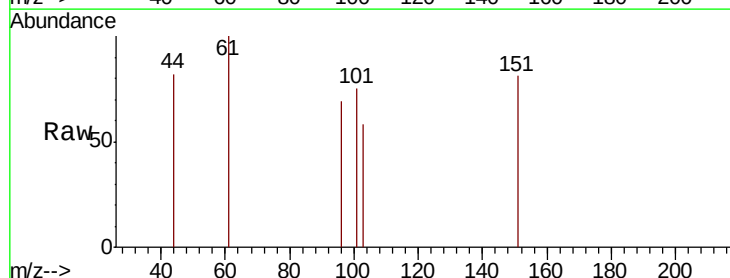
Tgt Ion: 96 Resp: 287

Ion Ratio Lower Upper

96 100

61 144.0 124.3 186.5

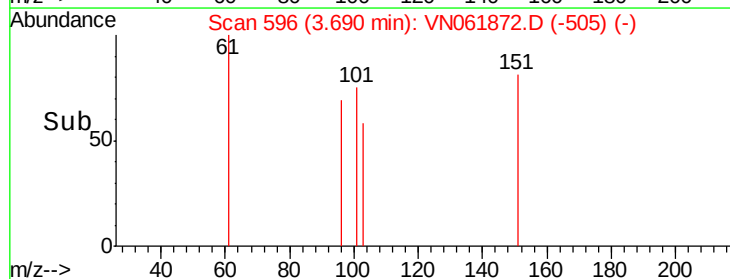
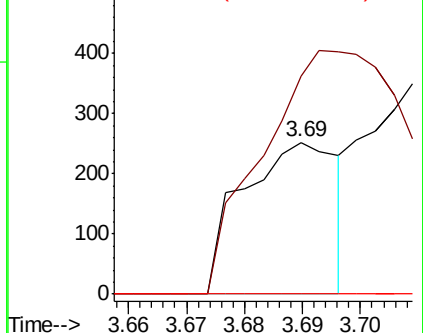
98 0.0 53.1 79.7#

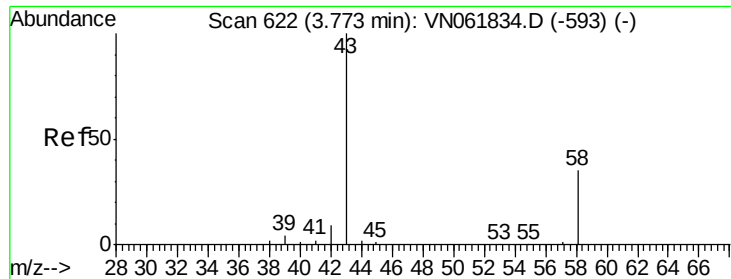


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 0.399 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

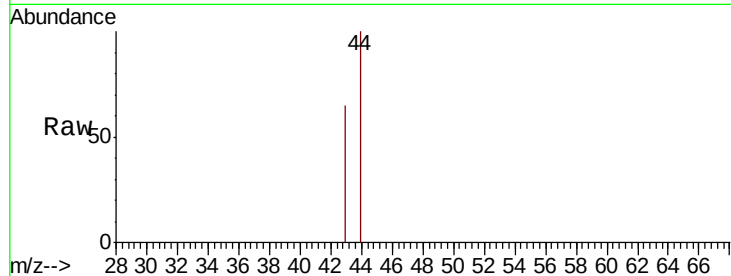
RE109D3-20200611

Tot Ion: 43 Resp: 220

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

200

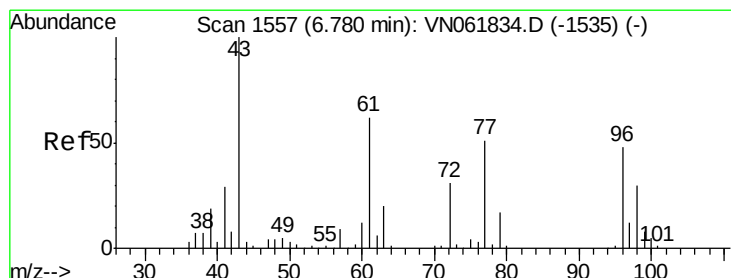
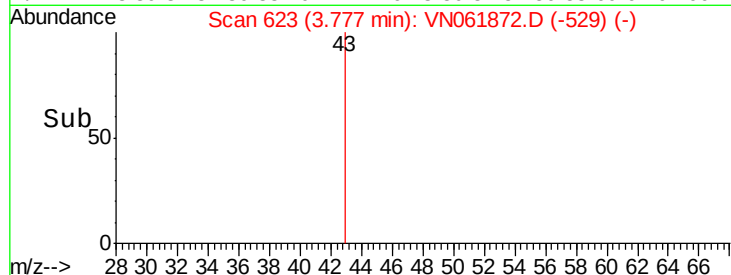
150

100

50

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.339 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

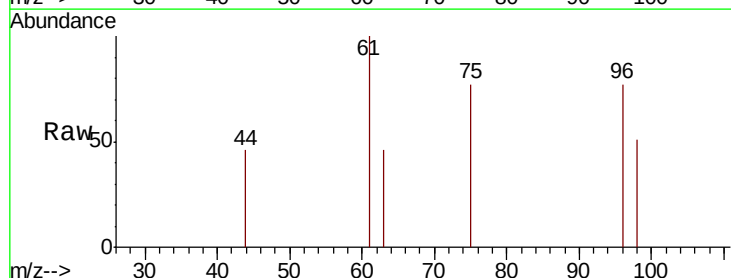
Tgt Ion: 96 Resp: 635

Ion Ratio Lower Upper

96 100

61 167.6 0.0 265.6

98 39.1 0.0 128.2



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

600

500

400

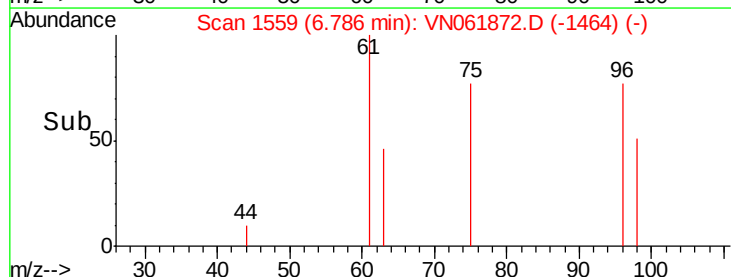
300

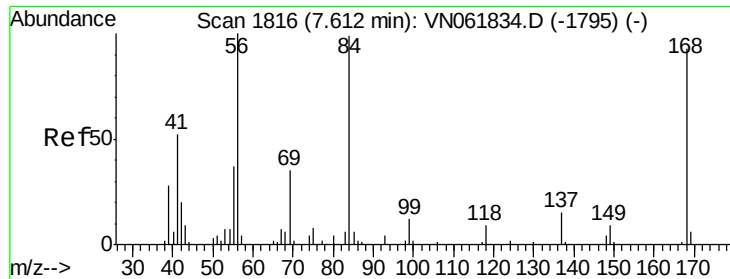
200

100

0

Time-->

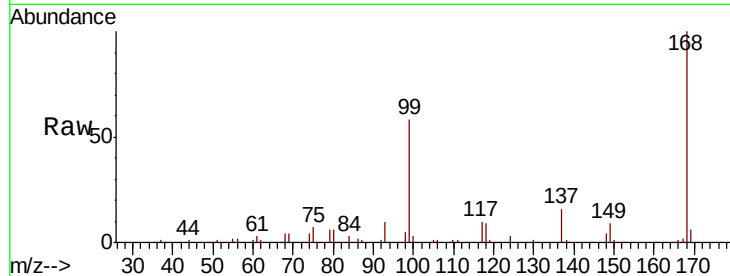




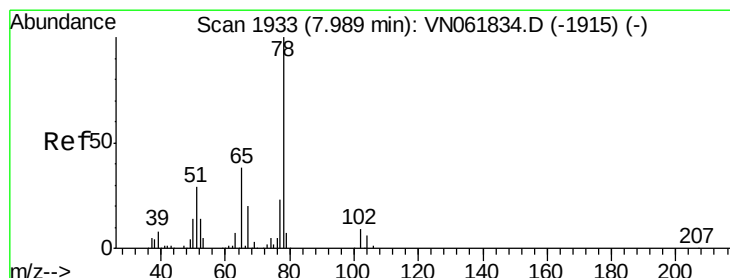
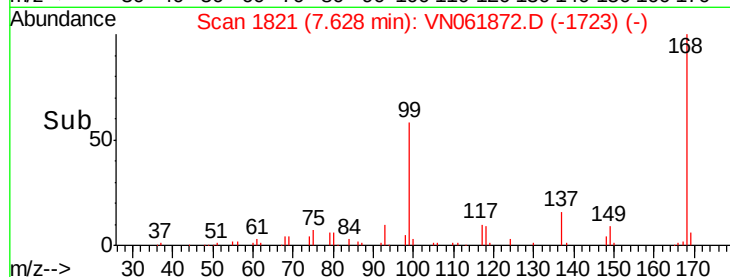
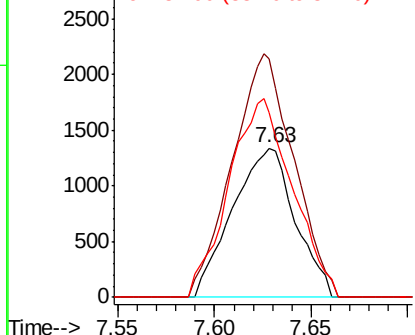
#31
Cyclohexane
Concen: 1.221 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Instrument :
MSVOA_N
ClientSampleId :
RE109D3-20200611

Tot Ion: 56 Resp: 3002
Ion Ratio Lower Upper
56 100
69 160.1 27.7 41.5#
84 123.6 79.1 118.7#

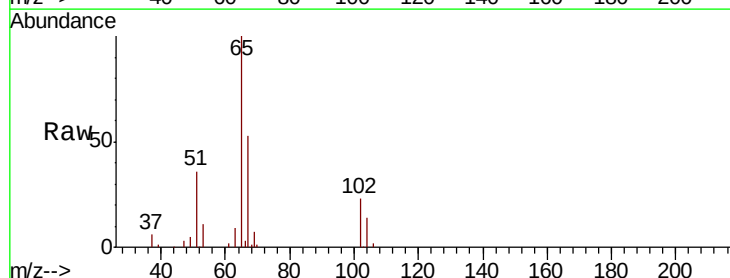


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

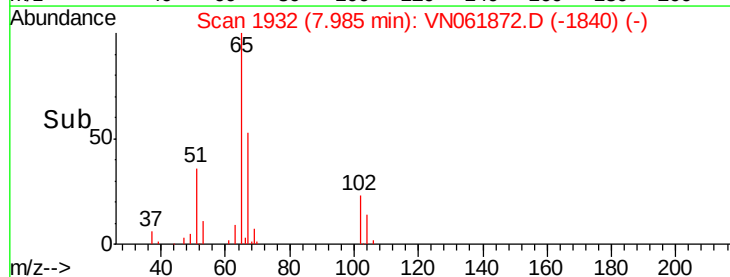
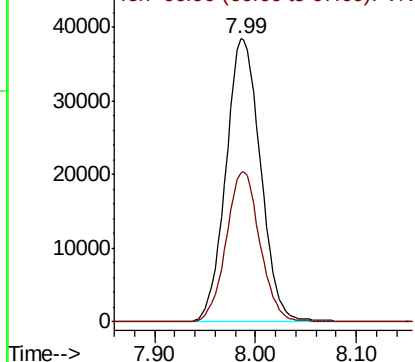


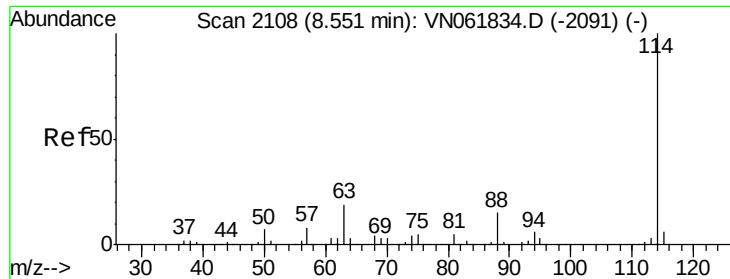
#33
1,2-Dichloroethane-d4
Concen: 49.306 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Tgt Ion: 65 Resp: 91991
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

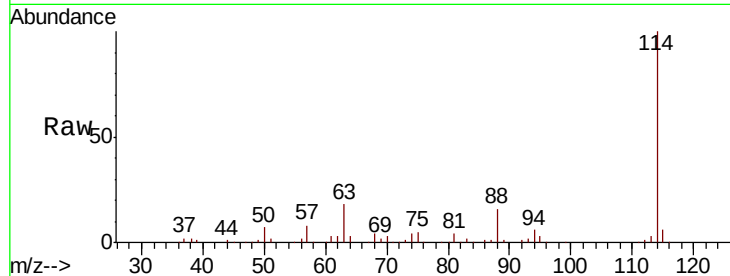




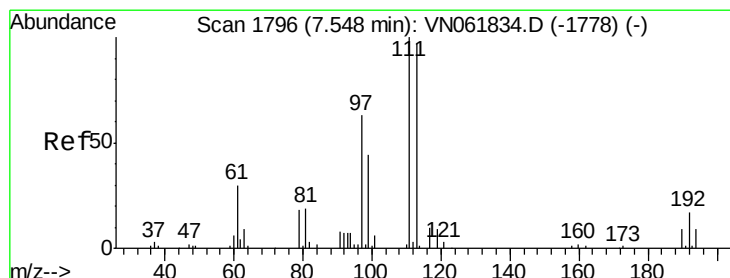
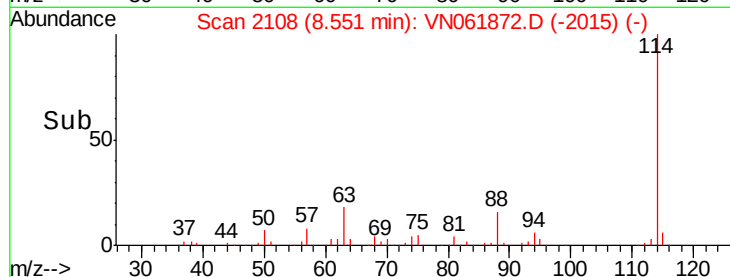
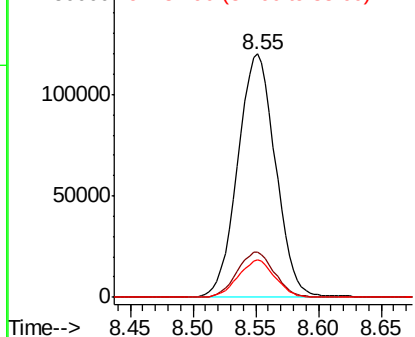
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Instrument :
MSVOA_N
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Tot Ion:114 Resp: 251297
Ion Ratio Lower Upper
114 100
63 18.4 0.0 37.6
88 15.5 0.0 31.0

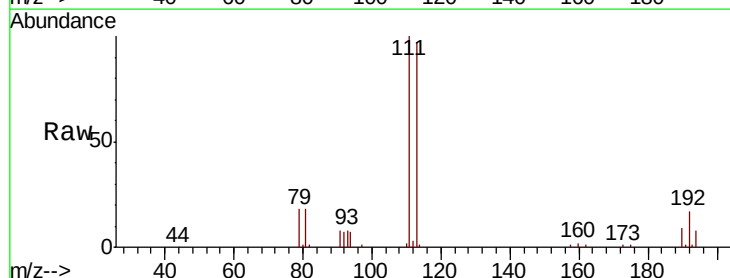


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

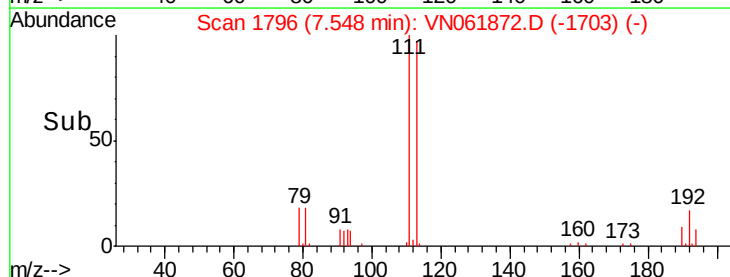
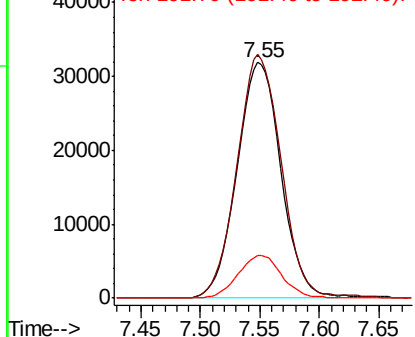


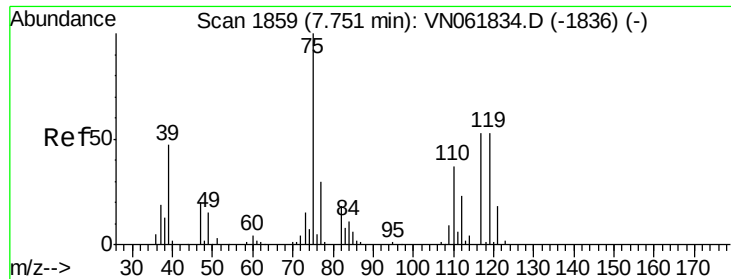
#35
Dibromofluoromethane
Concen: 50.749 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Tgt Ion:113 Resp: 81588
Ion Ratio Lower Upper
113 100
111 104.1 83.7 125.5
192 17.8 13.9 20.9



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: 4.769 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RE109D3-20200611

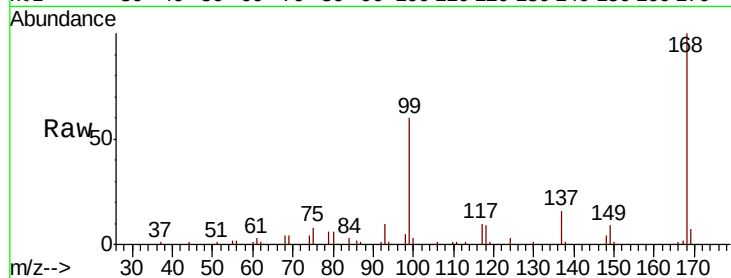
Tot Ion: 75 Resp: 10931

Ion Ratio Lower Upper

75 100

110 7.5 18.2 54.6#

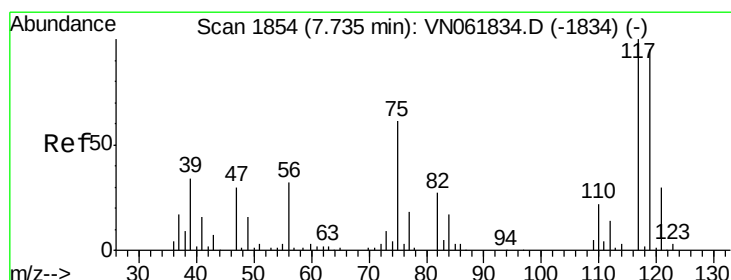
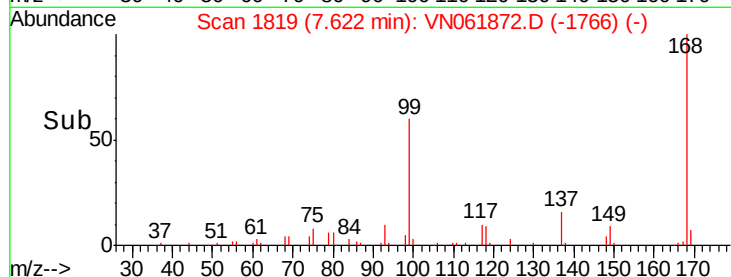
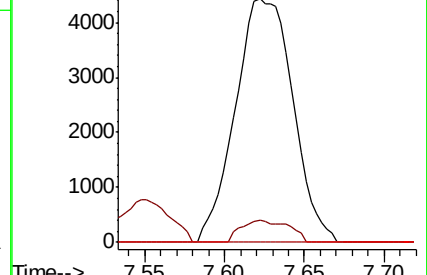
77 0.0 24.2 36.4#



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: 0.493 ug/l

RT: 7.74 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

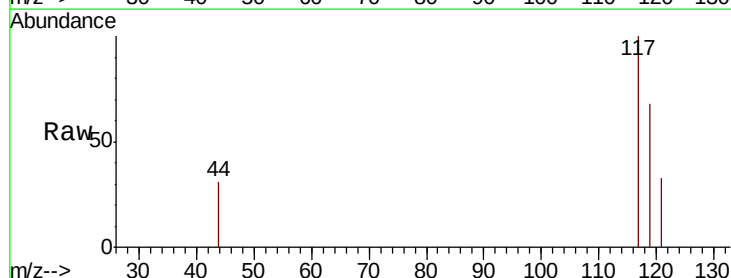
Tgt Ion: 117 Resp: 1119

Ion Ratio Lower Upper

117 100

119 67.7 75.8 113.6#

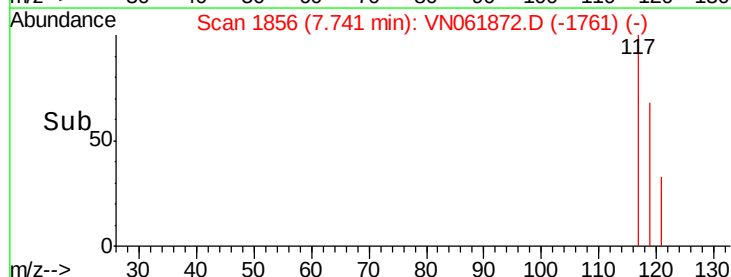
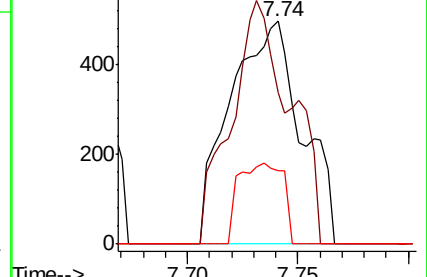
121 33.1 23.8 35.6

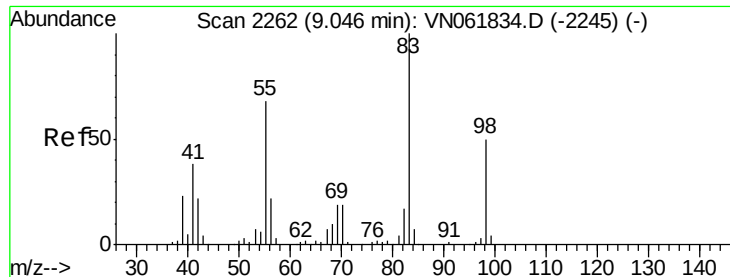


Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

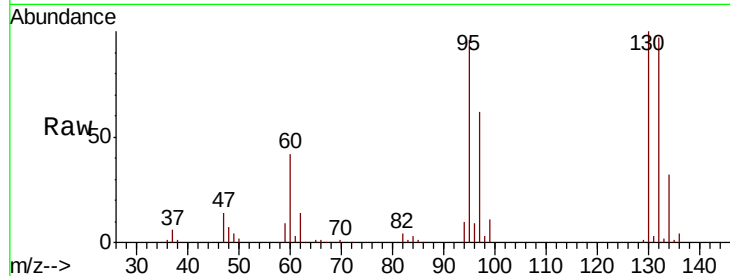




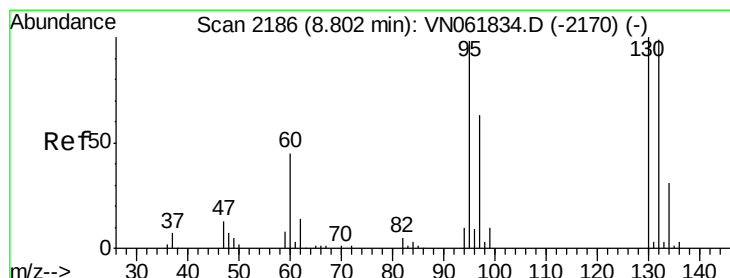
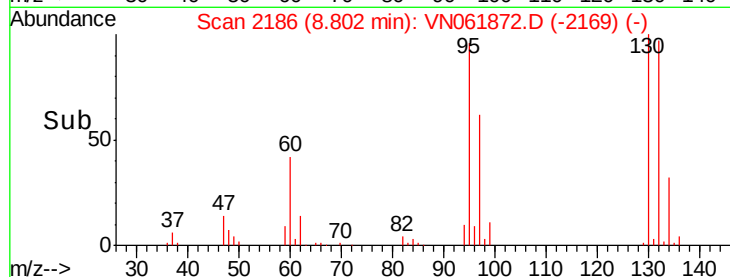
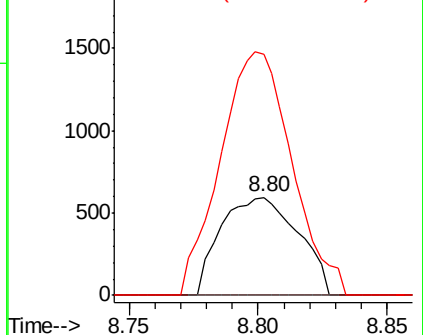
#39
Methylvlcyclohexane
Concen: 0.505 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Instrument :
MSVOA_N
ClientSampleId :
RE109D3-20200611

Tot Ion: 83 Resp: 1246
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 217.6 39.8 59.6#

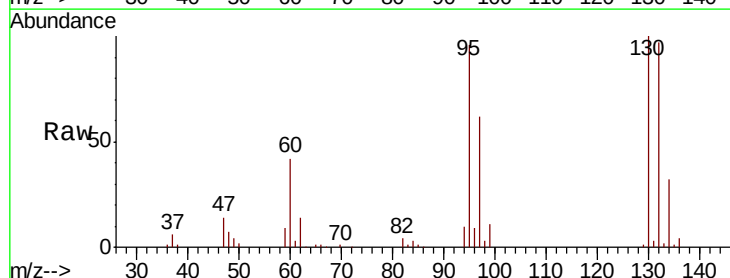


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

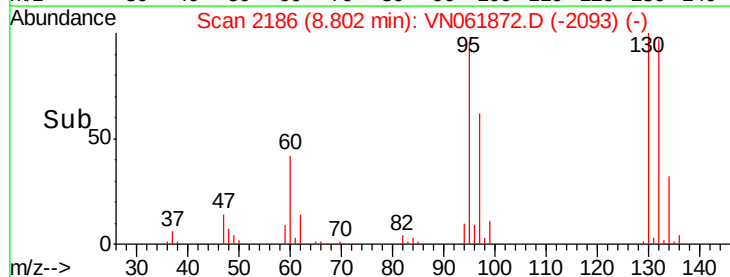
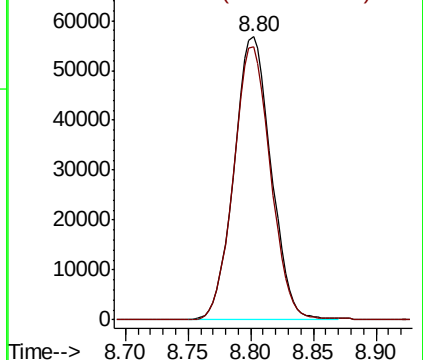


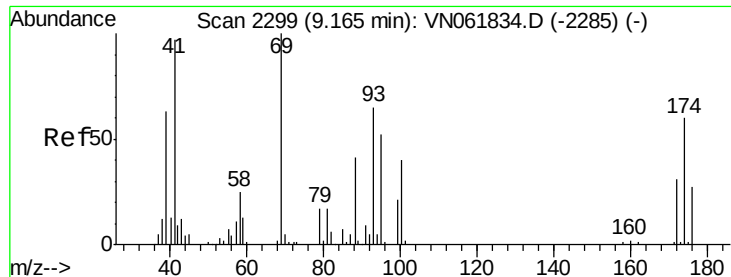
#44
Trichloroethene
Concen: 63.728 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN061872.D
Acq: 18 Jun 2020 1:28

Tgt Ion:130 Resp: 116451
Ion Ratio Lower Upper
130 100
95 96.4 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: 4.414 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RE109D3-20200611

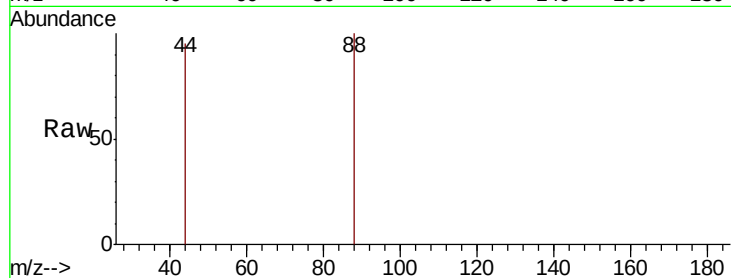
Tot Ion: 88 Resp: 139

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

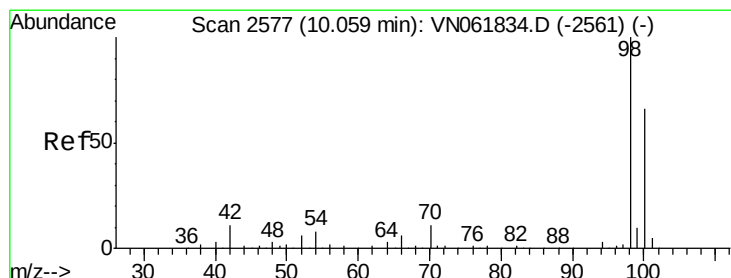
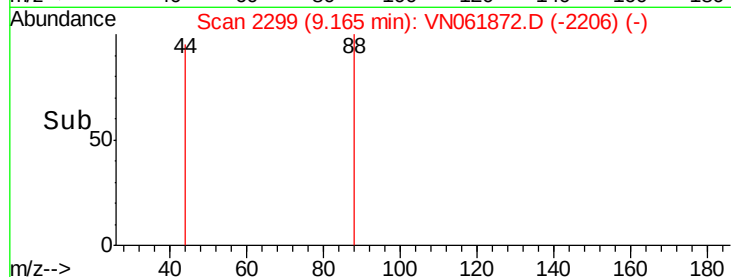
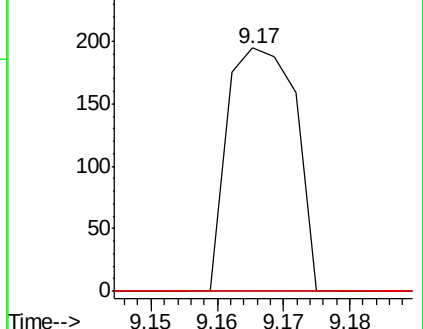
58 0.0 49.8 74.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.703 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061872.D

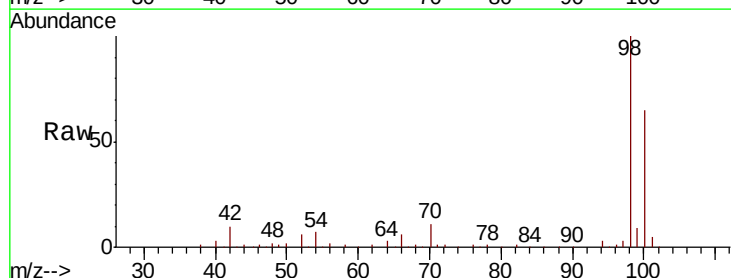
Acq: 18 Jun 2020 1:28

Tgt Ion: 98 Resp: 314141

Ion Ratio Lower Upper

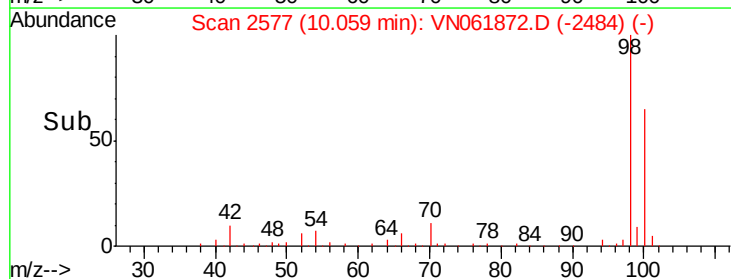
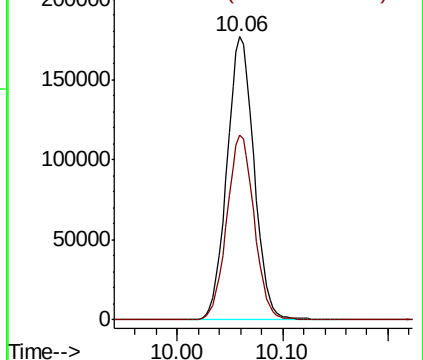
98 100

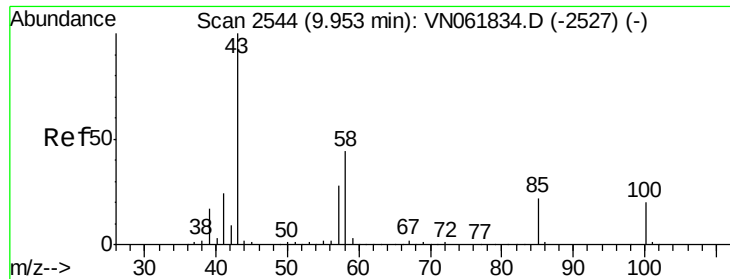
100 65.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.604 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

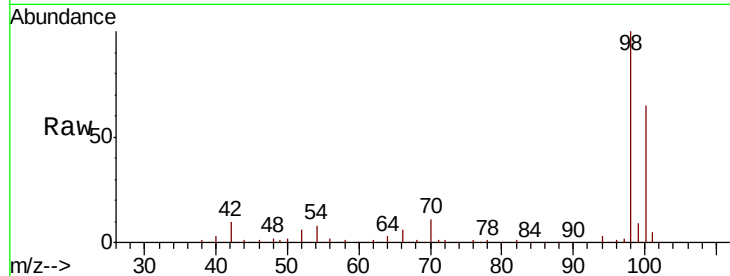
RE109D3-20200611

Tot Ion: 43 Resp: 1076

Ion Ratio Lower Upper

43 100

58 203.2 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) (-)

1500

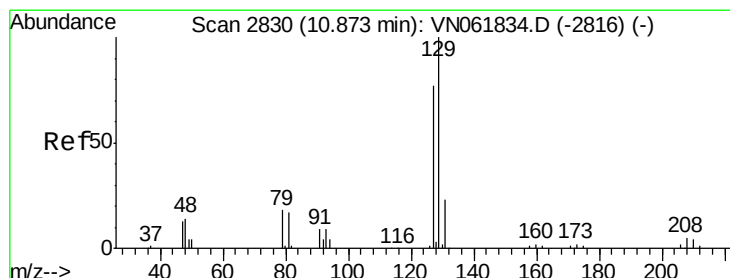
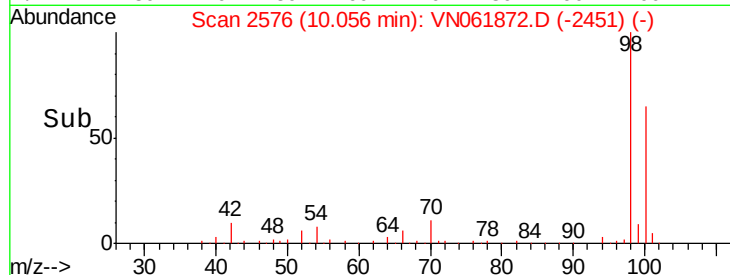
1000

500

0

10.05

Time-->



#60

Dibromochloromethane

Concen: 0.614 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. -0.27 min

Lab File: VN061872.D

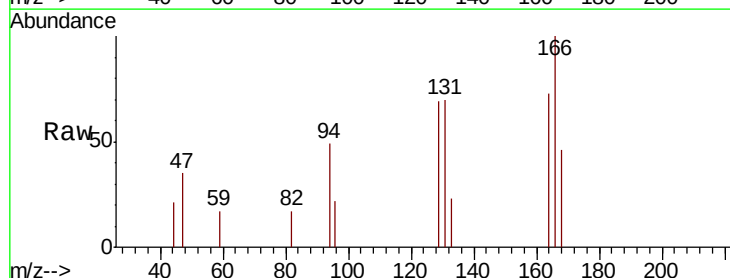
Acq: 18 Jun 2020 1:28

Tgt Ion: 129 Resp: 1175

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) (-)

600

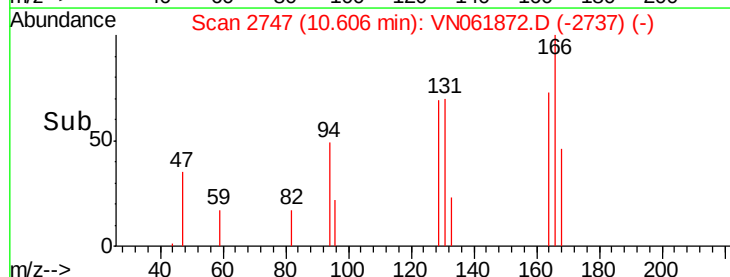
400

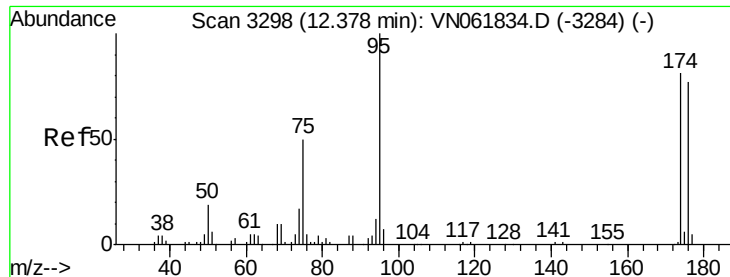
200

0

10.60

Time-->

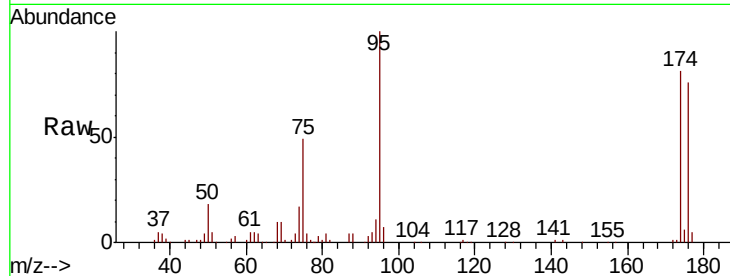




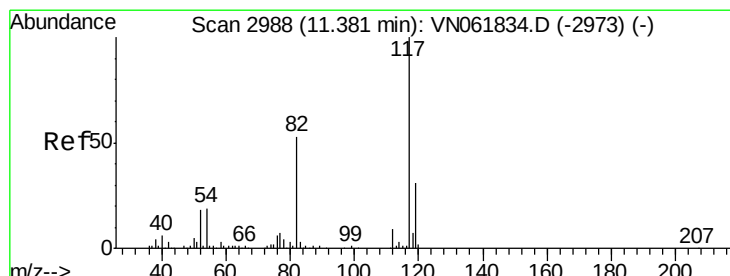
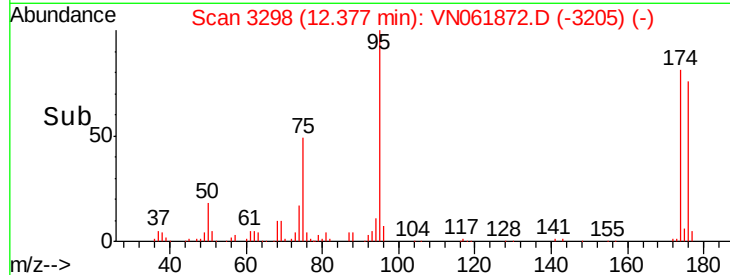
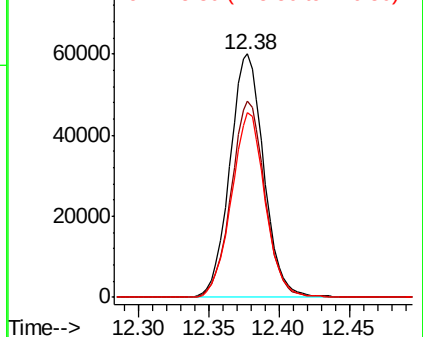
#62
 4-Bromofluorobenzene
 Concen: 46.650 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN061872.D
 Acq: 18 Jun 2020 1:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D3-20200611

Tot Ion	95	Resp	101136
Ion	Ratio	Lower	Upper
95	100		
174	80.1	0.0	158.6
176	75.5	0.0	152.0

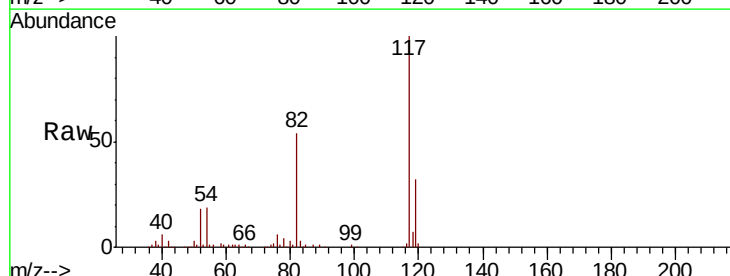


Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

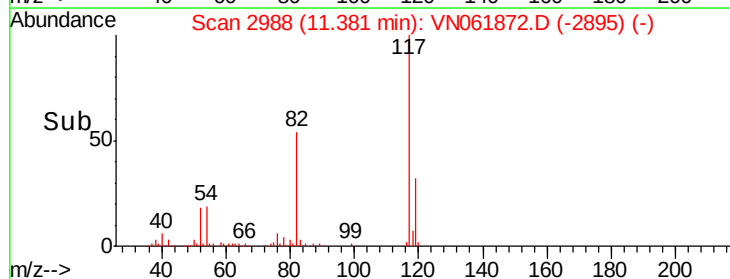
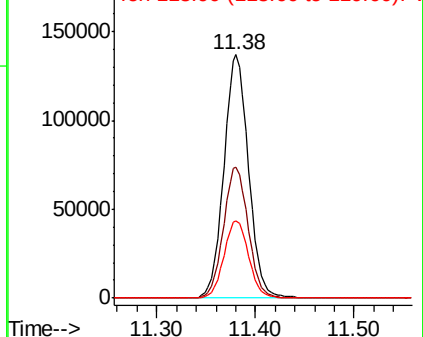


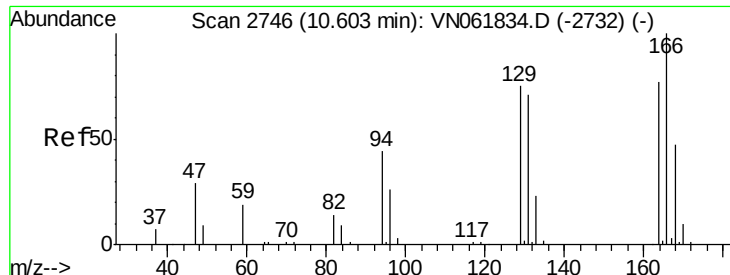
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061872.D
 Acq: 18 Jun 2020 1:28

Tgt Ion	117	Resp	239758
Ion	Ratio	Lower	Upper
117	100		
82	53.9	42.6	64.0
119	31.9	24.7	37.1



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





#64

Tetrachloroethene

Concen: 0.742 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

RE109D3-20200611

Tot Ion:164 Resp: 1134

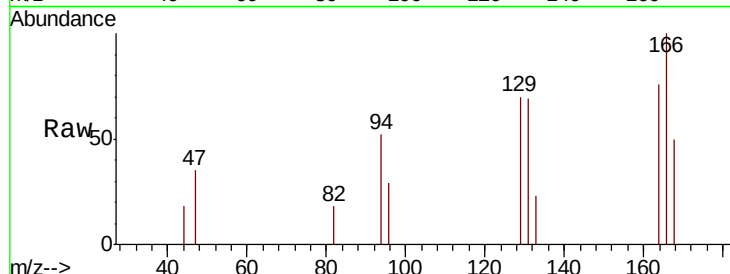
Ion Ratio Lower Upper

164 100

166 132.2 103.5 155.3

129 92.2 77.5 116.3

131 91.3 73.8 110.8



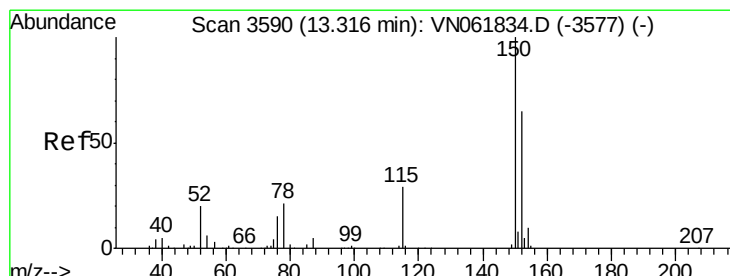
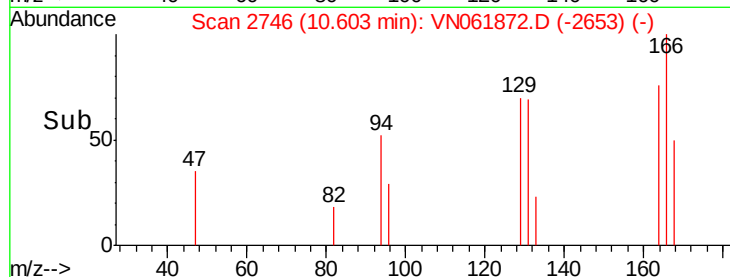
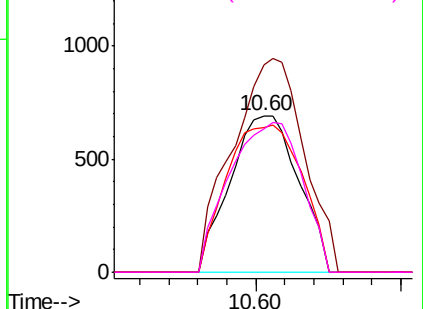
Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

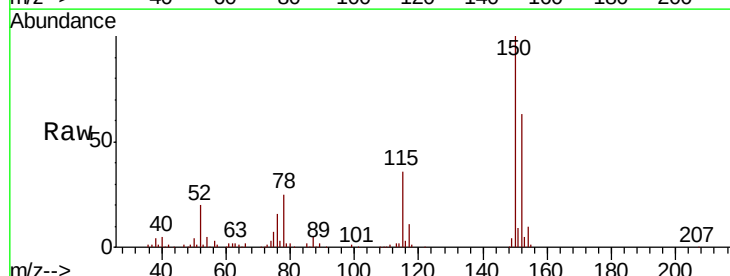
Tgt Ion:152 Resp: 90806

Ion Ratio Lower Upper

152 100

115 58.3 29.1 87.3

150 157.8 0.0 347.6

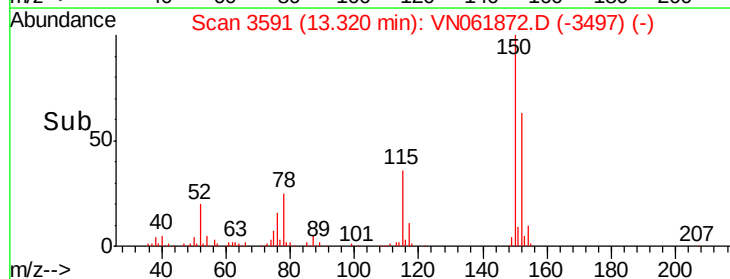
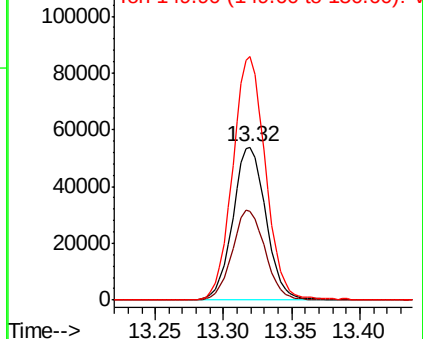


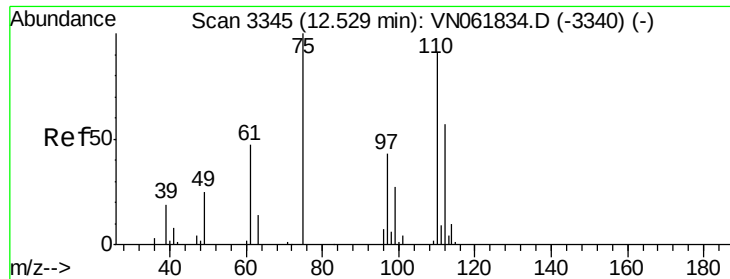
Abundance

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: 28.113 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

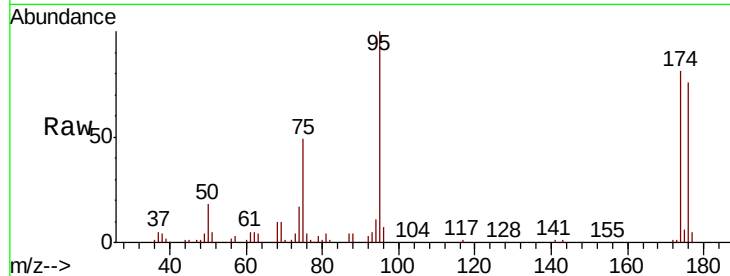
RE109D3-20200611

Tot Ion: 75 Resp: 50119

Ion Ratio Lower Upper

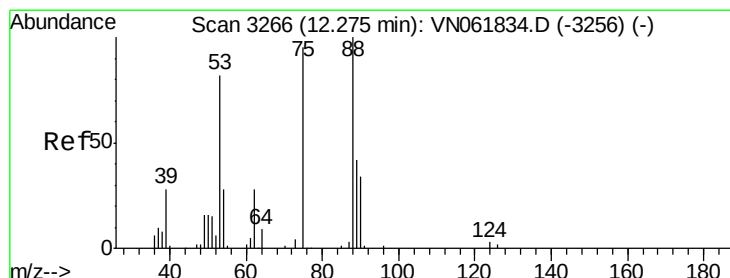
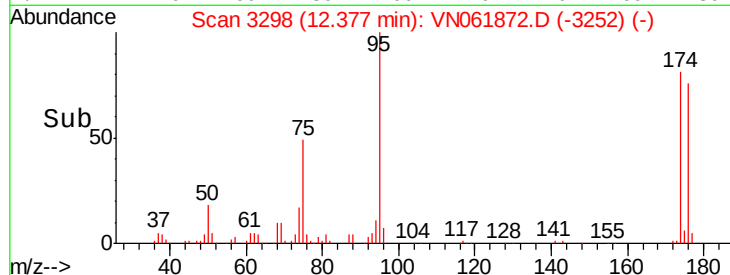
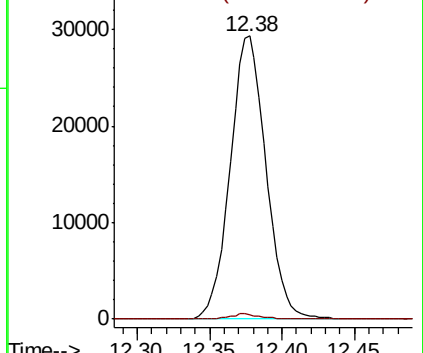
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061872.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN061872.D (-3252) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 76.677 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061872.D

Acq: 18 Jun 2020 1:28

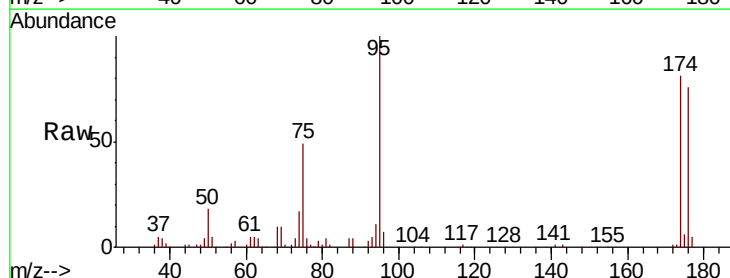
Tgt Ion: 75 Resp: 50119

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061872.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN061872.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN061872.D (-3173) (-)

