

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061844.D
 Acq On : 17 Jun 2020 13:28
 Operator : JC/MD
 Sample : L2989-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20200609DL

Quant Time: Jun 18 03:53:25 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

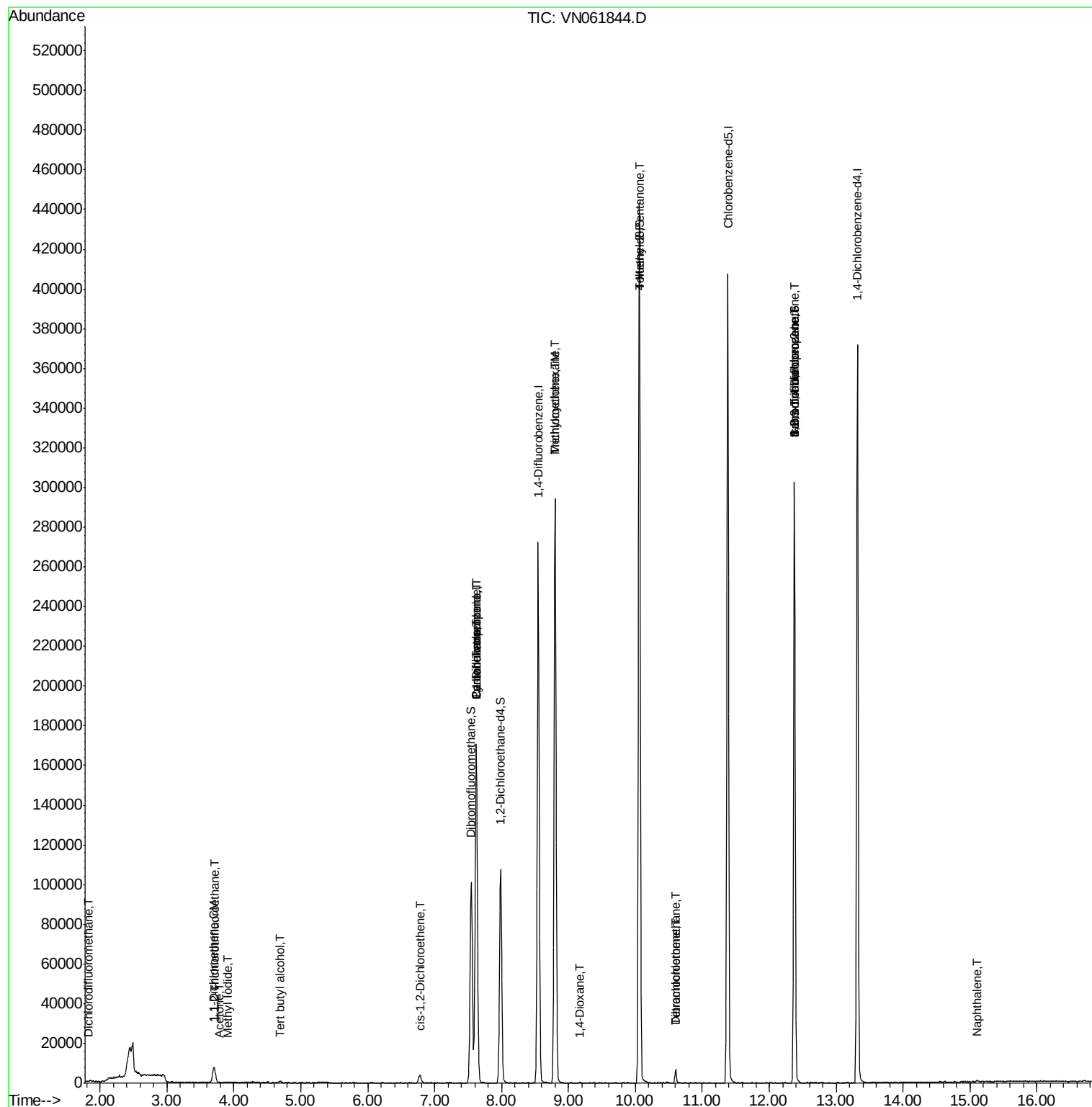
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	141347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	251750	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	242152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	101237	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	89346	47.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.26%	
35) Dibromofluoromethane	7.55	113	79223	49.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.38%	
50) Toluene-d8	10.06	98	315816	49.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.76%	
62) 4-Bromofluorobenzene	12.37	95	108385	49.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	31	0.308	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	3.71	101	5190	3.621	ug/l	98
10) Methyl Iodide	3.91	142	188	5.416	ug/l #	42
11) Tert butyl alcohol	4.69	59	479	1.826	ug/l #	74
12) 1,1-Dichloroethene	3.69	96	1463	1.019	ug/l	85
16) Acetone	3.77	43	420	0.750	ug/l #	40
27) cis-1,2-Dichloroethene	6.77	96	820	0.431	ug/l	53
31) Cyclohexane	7.62	56	2876	1.151	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	10927	4.759	ug/l #	45
38) Carbon Tetrachloride	7.62	117	13617	5.988	ug/l #	16
39) Methylcyclohexane	8.80	83	1209	0.489	ug/l #	1
44) Trichloroethene	8.80	130	112290	61.341	ug/l	99
49) 1,4-Dioxane	9.17	88	223	7.068	ug/l #	28
51) 4-Methyl-2-Pentanone	10.06	43	1114	0.624	ug/l #	1
60) Dibromochloromethane	10.60	129	1421	0.741	ug/l #	11
64) Tetrachloroethene	10.60	164	1460	0.946	ug/l	96
71) Bromoform	12.37	173	642	0.494	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	53341	26.838	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	53341	73.198	ug/l #	14
95) Naphthalene	15.11	128	915	3.652	ug/l #	69

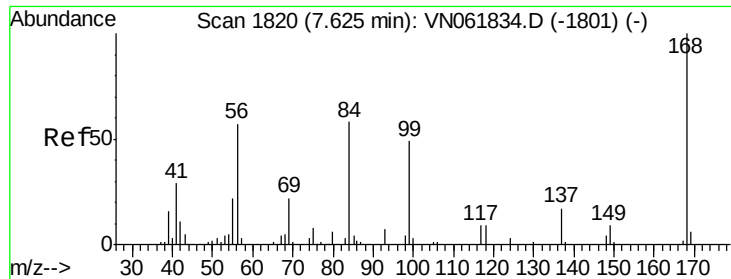
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

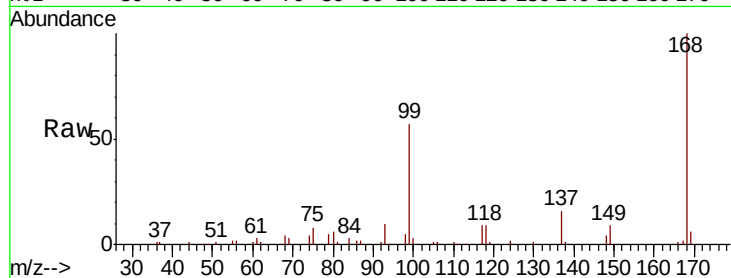
RE125D2-20200609DL

Tot Ion:168 Resp: 141347

Ion Ratio Lower Upper

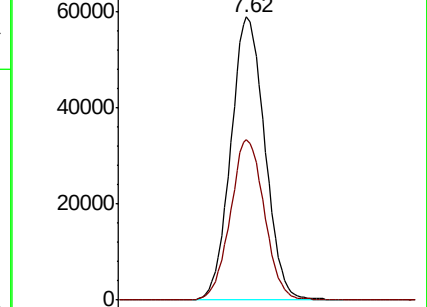
168 100

99 56.8 44.6 67.0

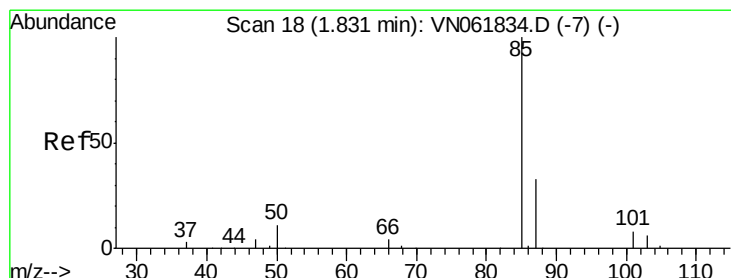
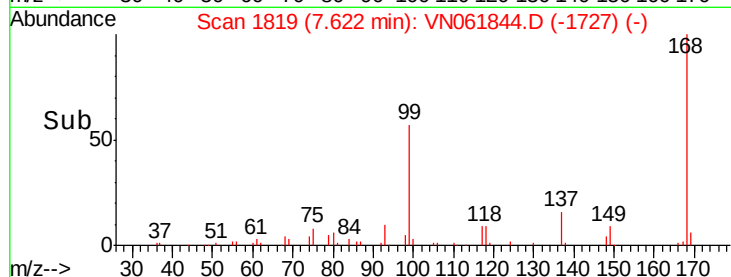


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.308 ug/l

RT: 1.83 min Scan# 17

Delta R.T. -0.00 min

Lab File: VN061844.D

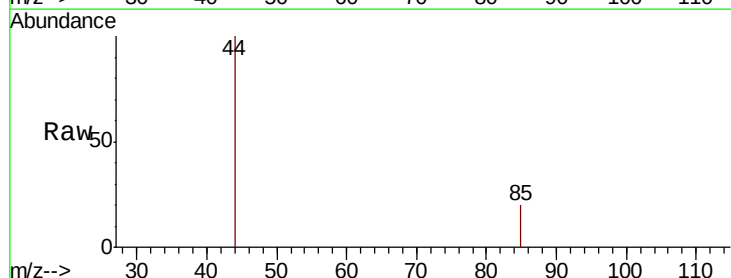
Acq: 17 Jun 2020 13:28

Tgt Ion: 85 Resp: 31

Ion Ratio Lower Upper

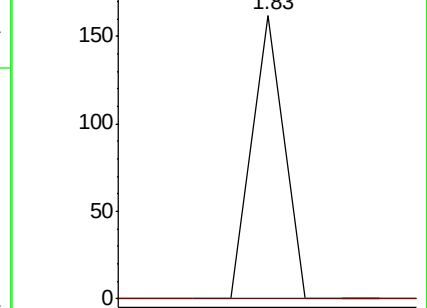
85 100

87 0.0 16.6 49.8#

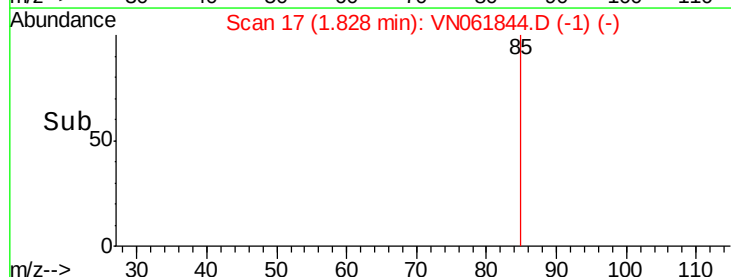


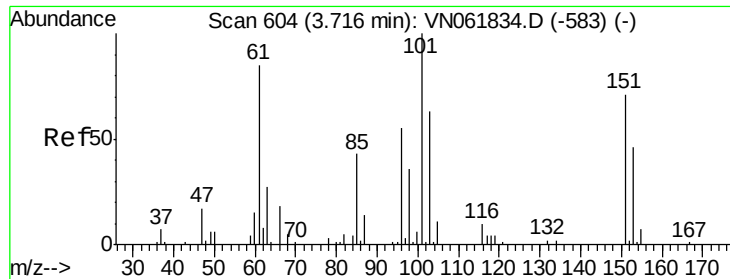
Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO



Time--> 1.82 1.83 1.84





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.621 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.01 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200609DL

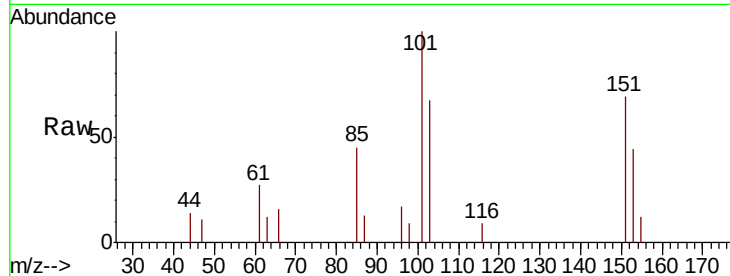
Tot Ion:101 Resp: 5190

Ion Ratio Lower Upper

101 100

85 41.3 35.0 52.6

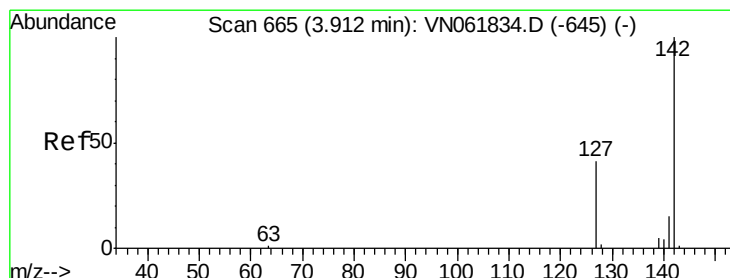
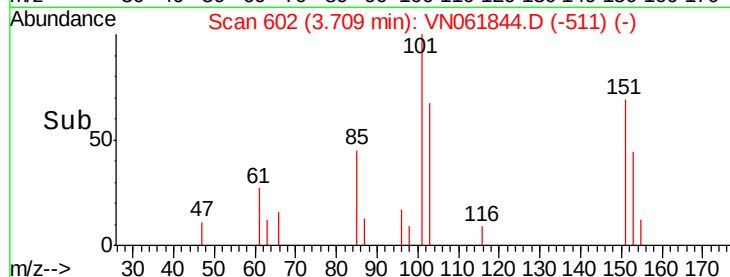
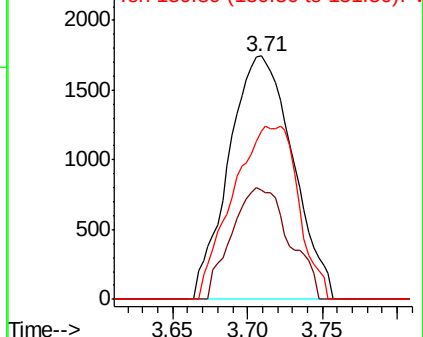
151 72.6 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.416 ug/l

RT: 3.91 min Scan# 663

Delta R.T. -0.01 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

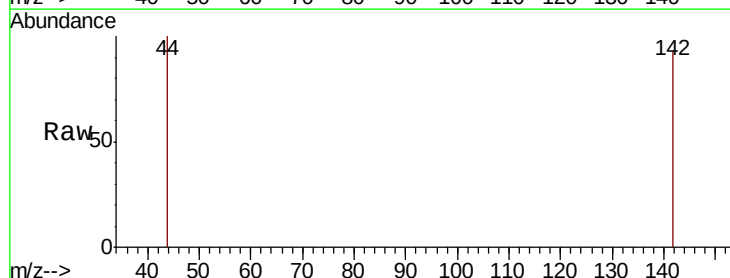
Tgt Ion:142 Resp: 188

Ion Ratio Lower Upper

142 100

127 0.0 33.4 50.0#

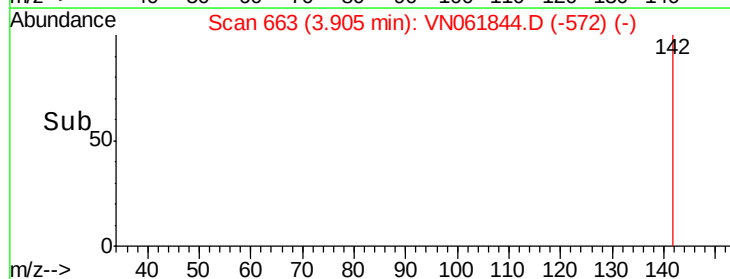
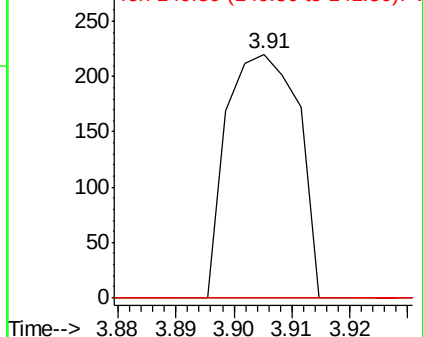
141 0.0 11.3 16.9#

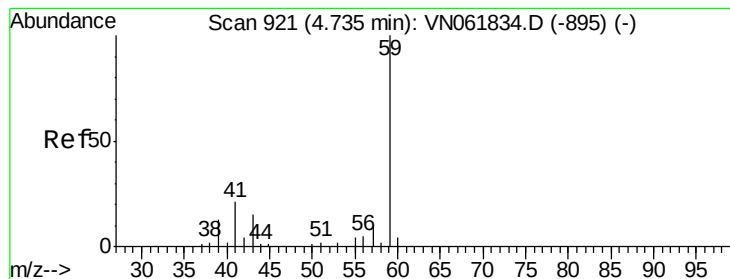


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 1.826 ug/l

RT: 4.69 min Scan# 907

Delta R.T. -0.05 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

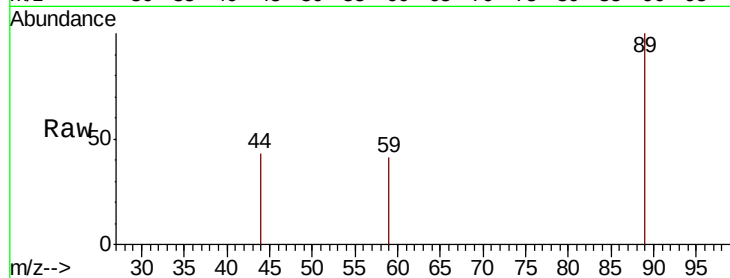
RE125D2-20200609DL

Tot Ion: 59 Resp: 479

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN061834.D (-895) (-)

Ion 57.00 (56.70 to 57.70): VN061834.D (-895) (-)

4.69

200

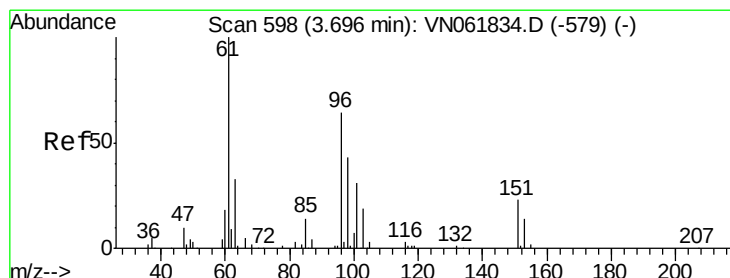
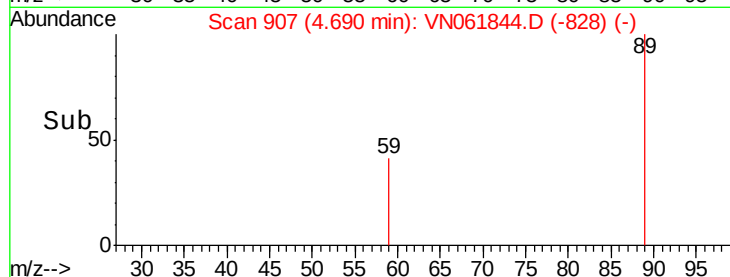
150

100

50

0

Time-->



#12

1,1-Dichloroethene

Concen: 1.019 ug/l

RT: 3.69 min Scan# 596

Delta R.T. -0.01 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

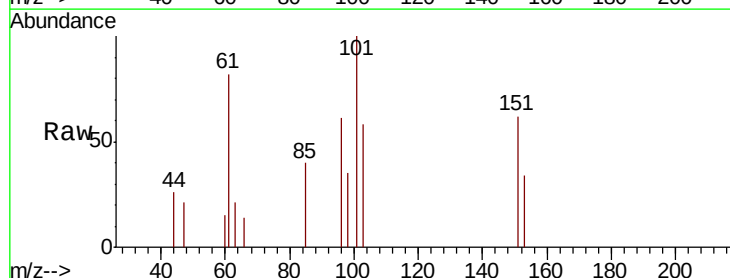
Tgt Ion: 96 Resp: 1463

Ion Ratio Lower Upper

96 100

61 134.1 124.3 186.5

98 56.8 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) (-)

1200

1000

800

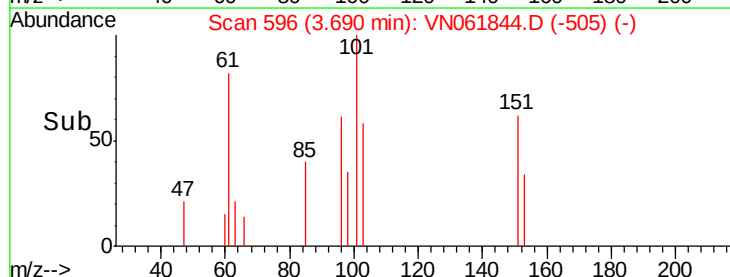
600

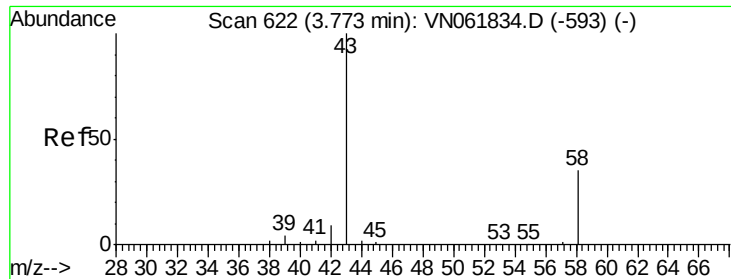
400

200

0

Time-->





#16

Acetone

Concen: 0.750 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

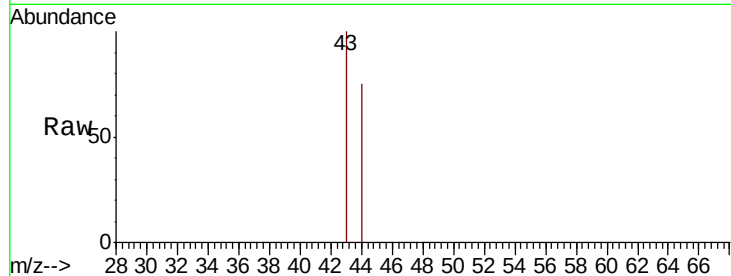
RE125D2-20200609DL

Tot Ion: 43 Resp: 420

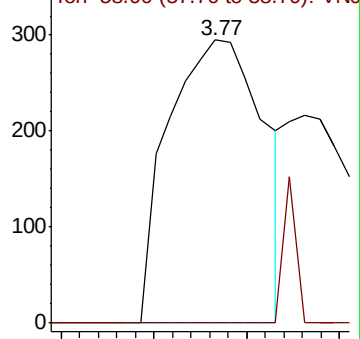
Ion Ratio Lower Upper

43 100

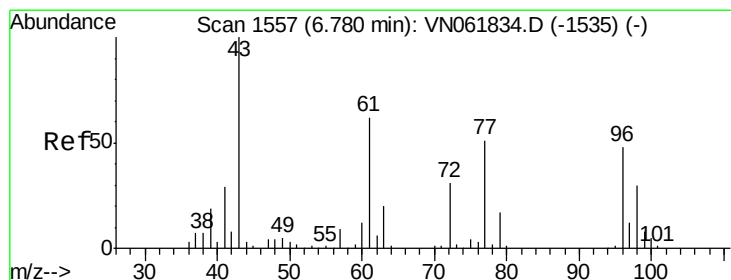
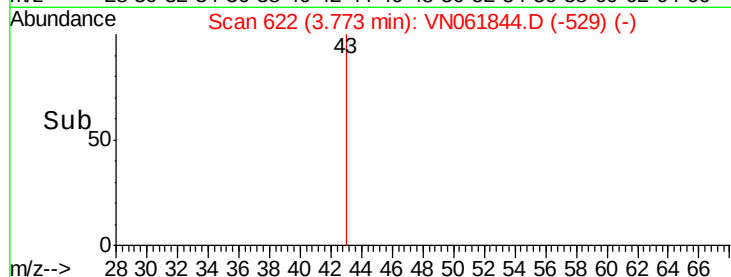
58 0.0 27.8 41.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)



Time--> 3.74 3.76 3.78



#27

cis-1,2-Dichloroethene

Concen: 0.431 ug/l

RT: 6.77 min Scan# 1554

Delta R.T. -0.01 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

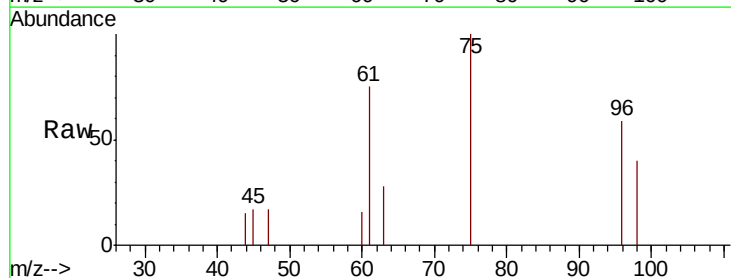
Tgt Ion: 96 Resp: 820

Ion Ratio Lower Upper

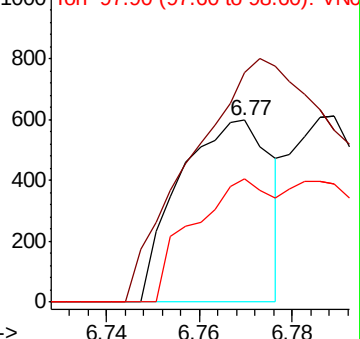
96 100

61 211.5 0.0 265.6

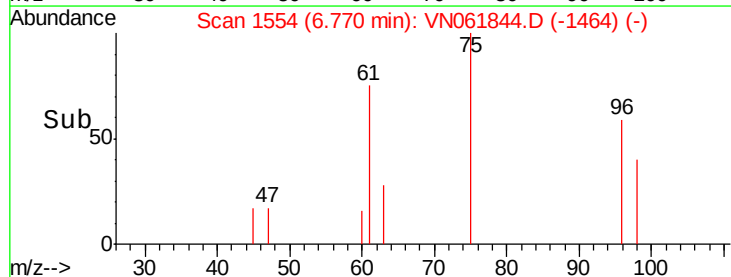
98 59.5 0.0 128.2

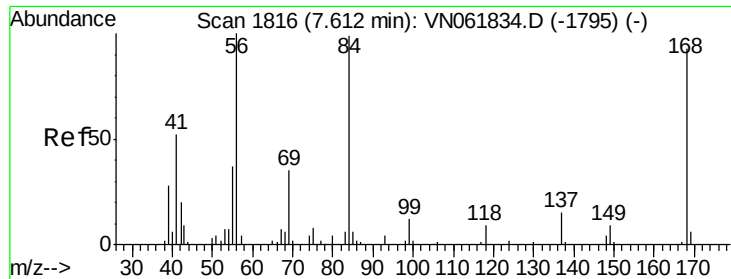


Abundance Ion 95.90 (95.60 to 96.60): VN061834.D (-1535) (-)



Time--> 6.74 6.76 6.78

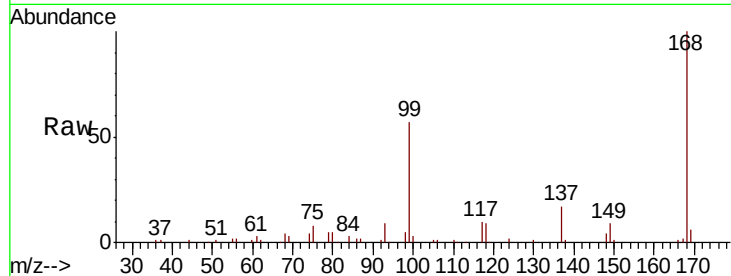




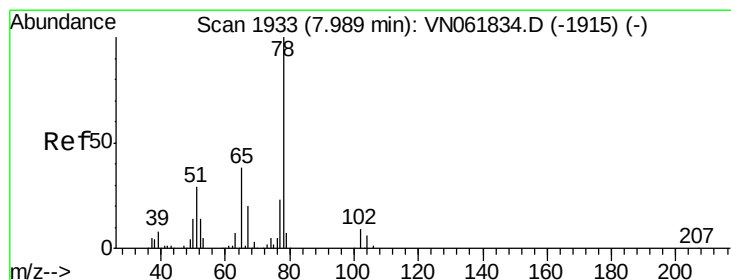
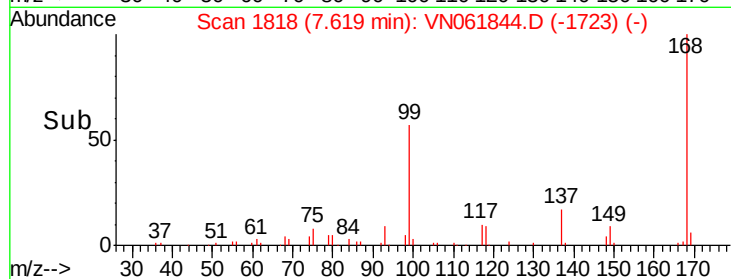
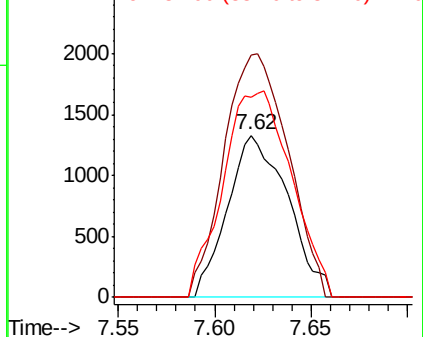
#31
Cyclohexane
Concen: 1.151 ug/l
RT: 7.62 min Scan# 1816
Delta R.T. 0.01 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200609DL

Tot Ion: 56 Resp: 2876
Ion Ratio Lower Upper
56 100
69 150.1 27.7 41.5#
84 124.0 79.1 118.7#

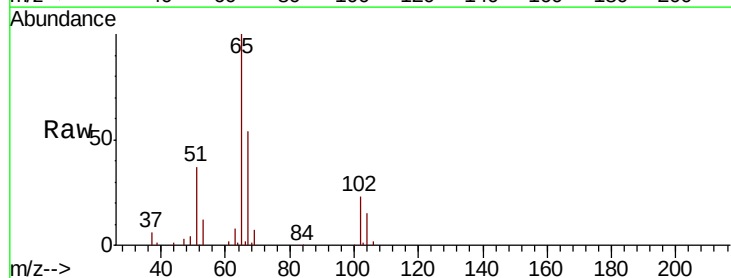


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

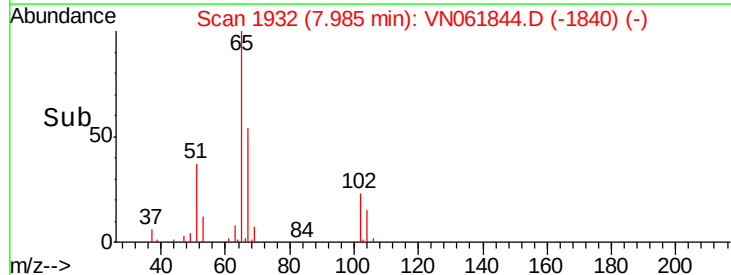
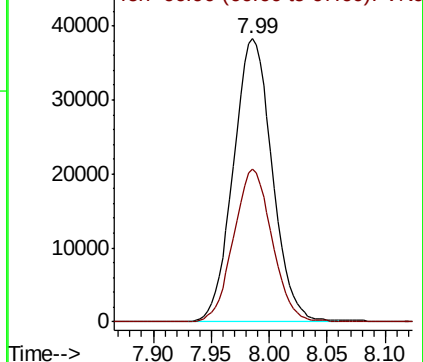


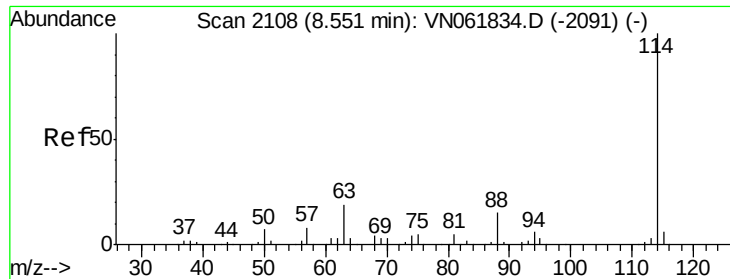
#33
1,2-Dichloroethane-d4
Concen: 47.132 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Tgt Ion: 65 Resp: 89346
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.2



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

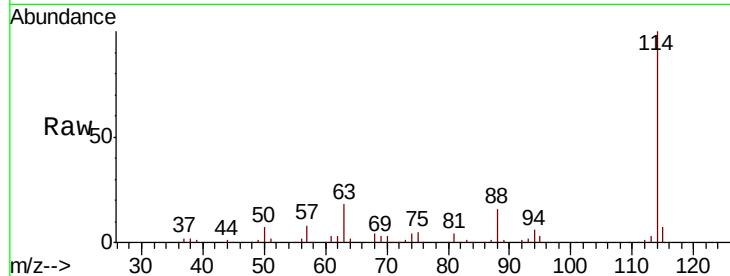




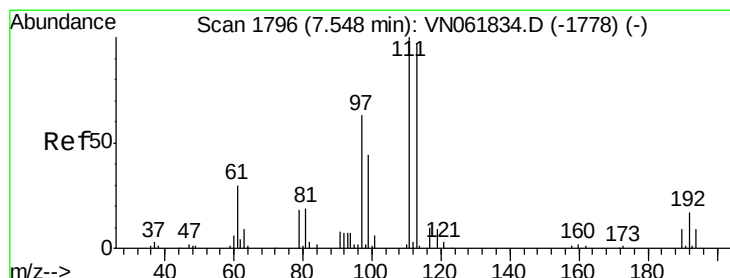
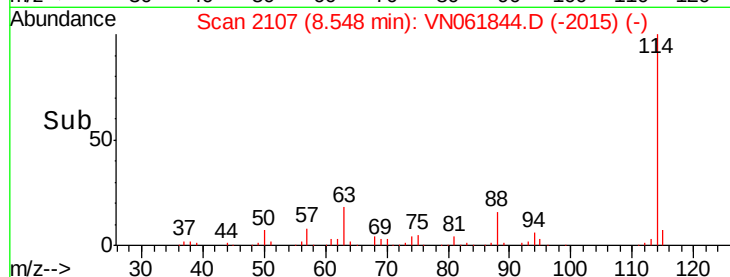
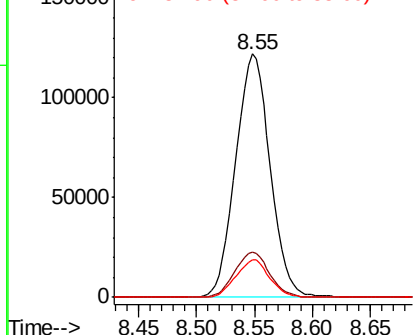
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2107
Delta R.T. -0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200609DL

Tot Ion:114 Resp: 251750
Ion Ratio Lower Upper
114 100
63 18.3 0.0 37.6
88 15.6 0.0 31.0

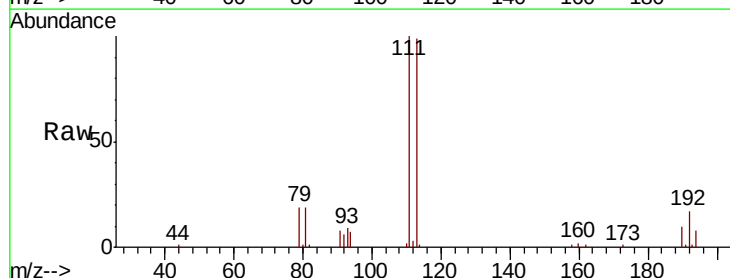


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

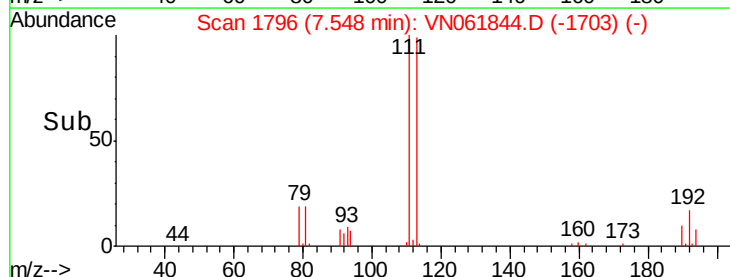
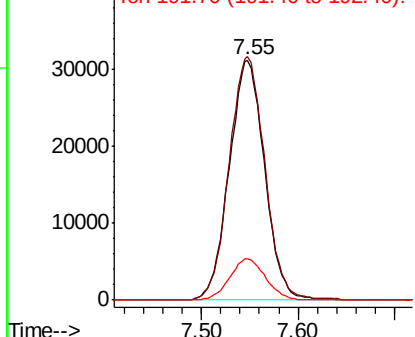


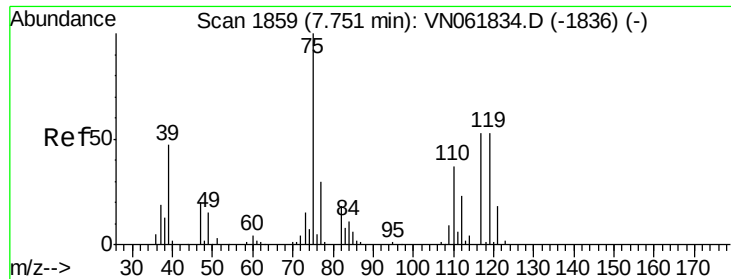
#35
Dibromofluoromethane
Concen: 49.190 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Tgt Ion:113 Resp: 79223
Ion Ratio Lower Upper
113 100
111 102.0 83.7 125.5
192 17.4 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

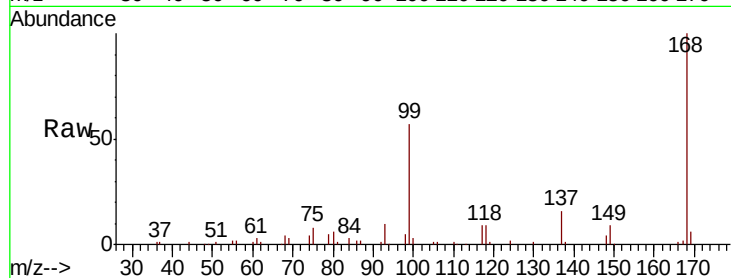




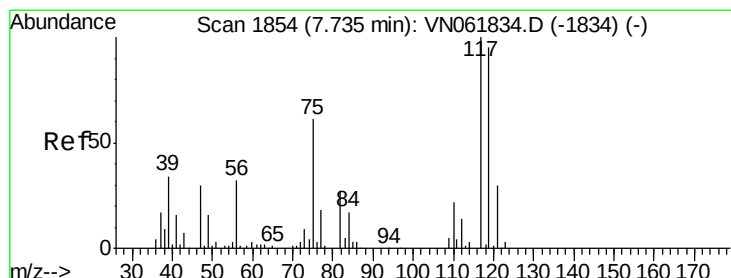
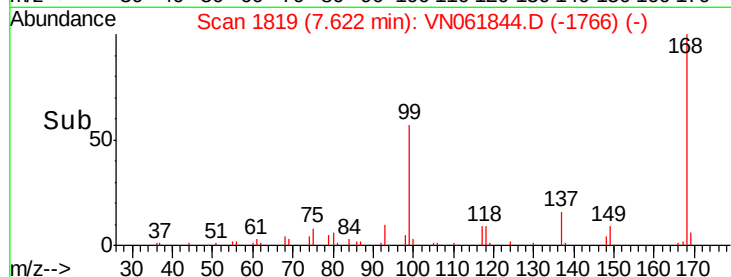
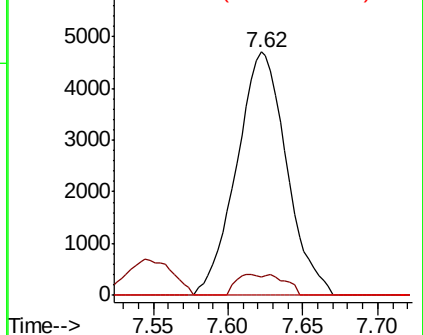
#36
 1,1-Dichloropropene
 Concen: 4.759 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061844.D
 Acq: 17 Jun 2020 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20200609DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.3	18.2	54.6#
77	0.0	24.2	36.4#

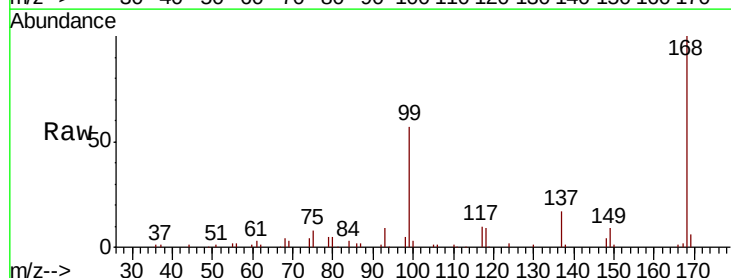


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)
 Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)
 Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

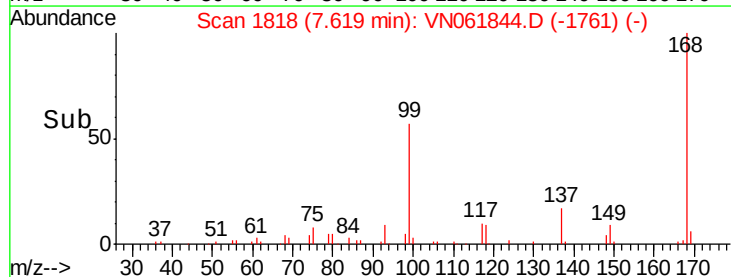
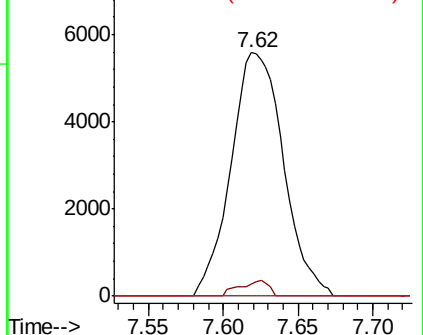


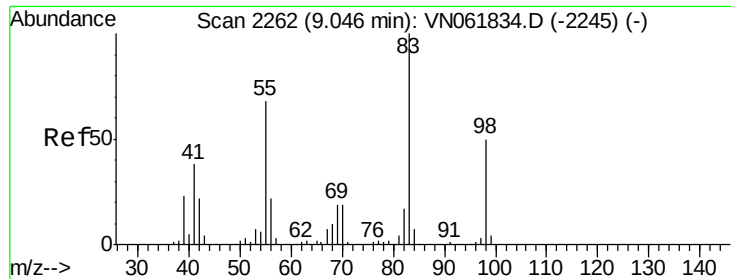
#38
 Carbon Tetrachloride
 Concen: 5.988 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.12 min
 Lab File: VN061844.D
 Acq: 17 Jun 2020 13:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	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) (-)

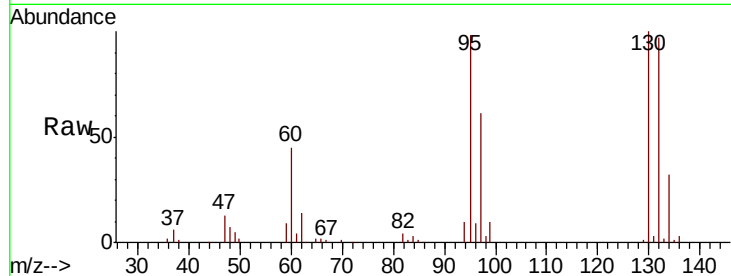




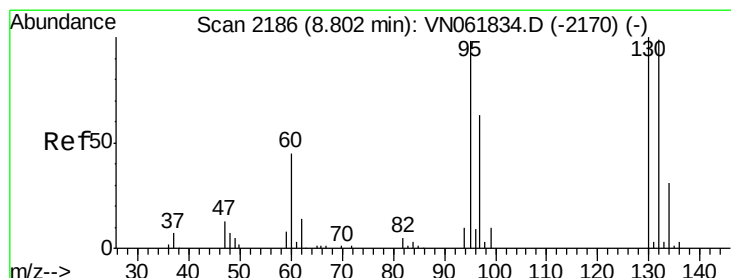
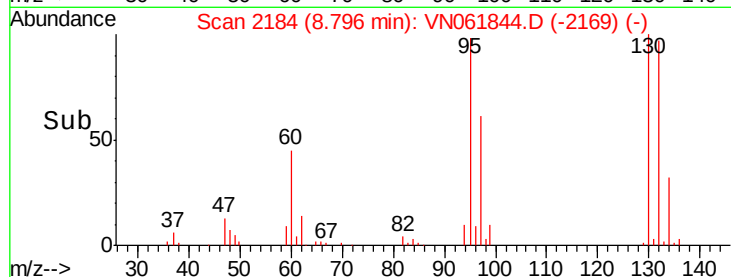
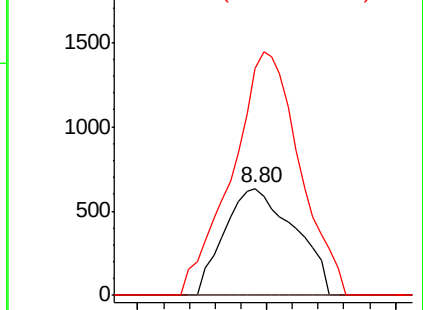
#39
Methylcyclohexane
Concen: 0.489 ug/l
RT: 8.80 min Scan# 2184
Delta R.T. -0.25 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200609DL

Tot Ion: 83 Resp: 1209
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 188.4 39.8 59.6#

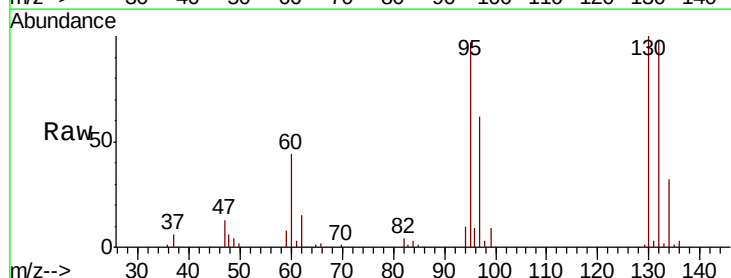


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

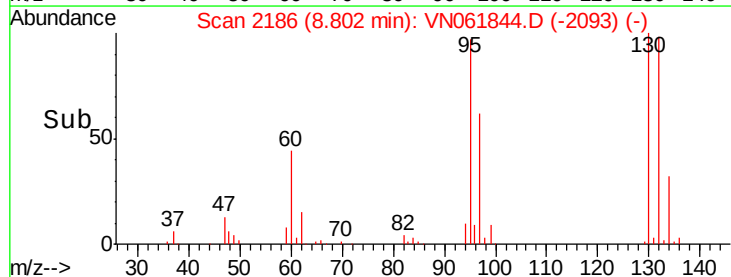
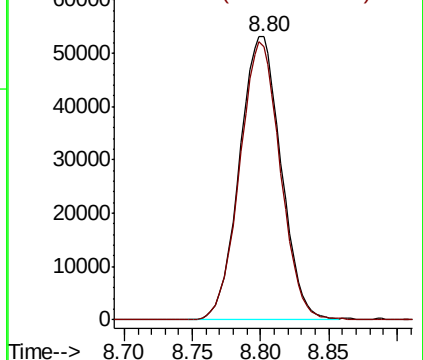


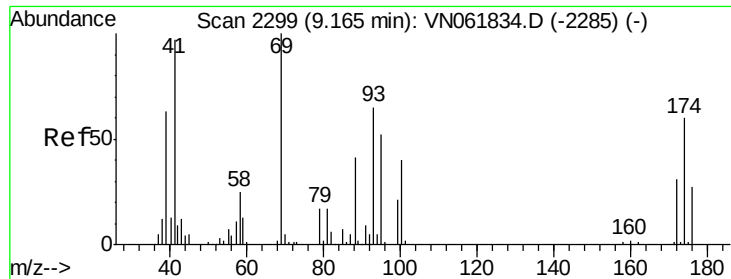
#44
Trichloroethene
Concen: 61.341 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

Tgt Ion:130 Resp: 112290
Ion Ratio Lower Upper
130 100
95 96.6 0.0 195.6



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

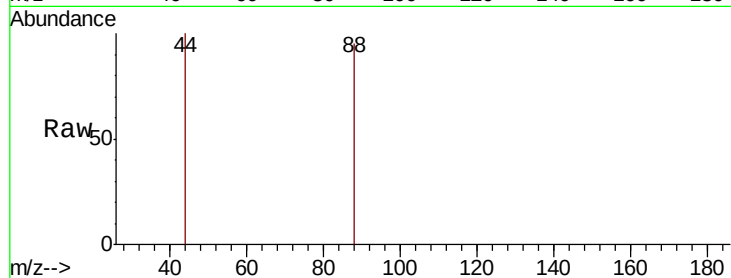




#49
1,4-Dioxane
Concen: 7.068 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

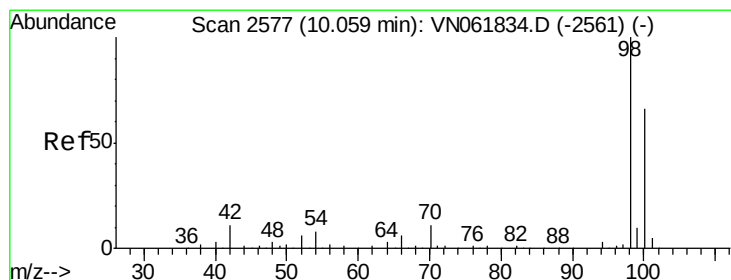
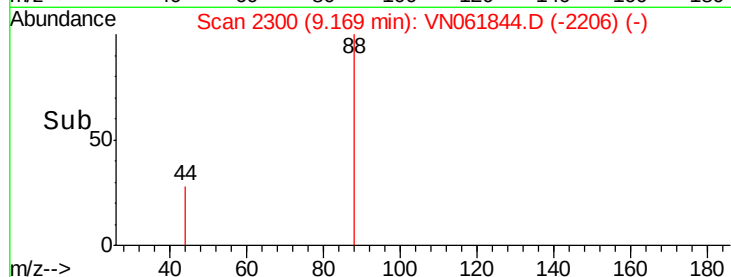
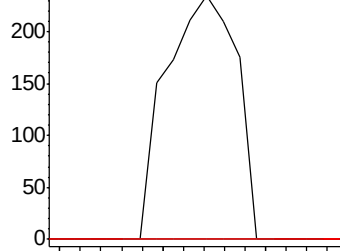
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20200609DL

Tot Ion: 88 Resp: 223
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 49.8 74.6#



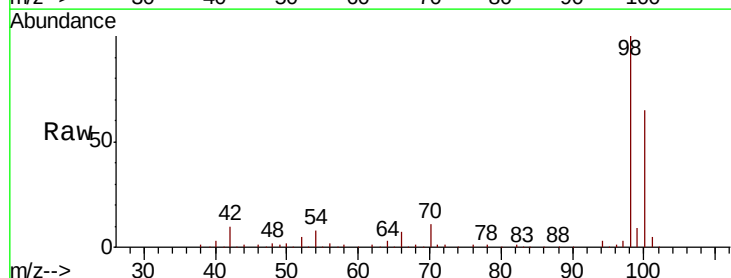
Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

9.17



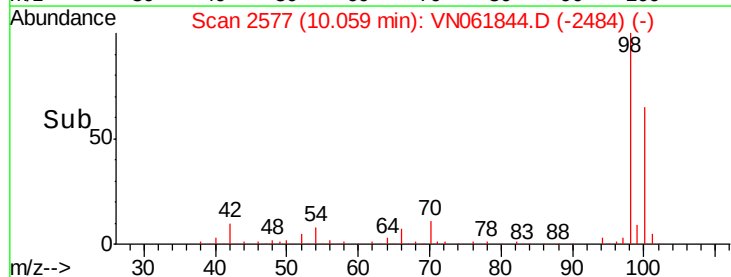
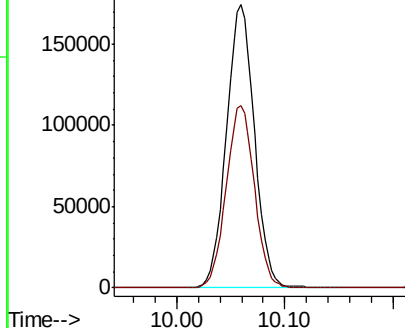
#50
Toluene-d8
Concen: 49.878 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061844.D
Acq: 17 Jun 2020 13:28

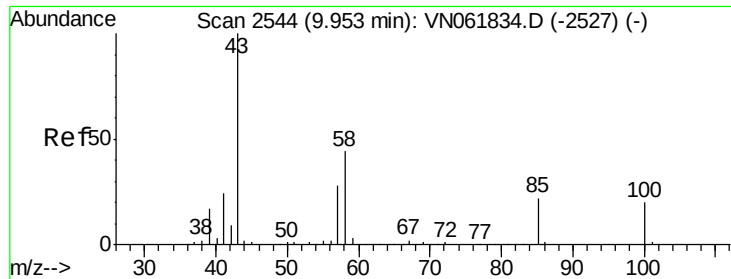
Tgt Ion: 98 Resp: 315816
Ion Ratio Lower Upper
98 100
100 64.9 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

10.06





#51

4-Methyl-2-Pentanone

Concen: 0.624 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

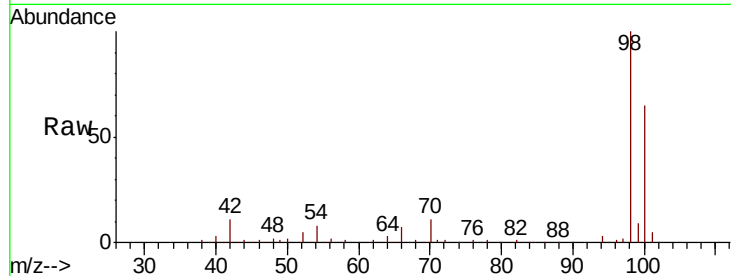
RE125D2-20200609DL

Tot Ion: 43 Resp: 1114

Ion Ratio Lower Upper

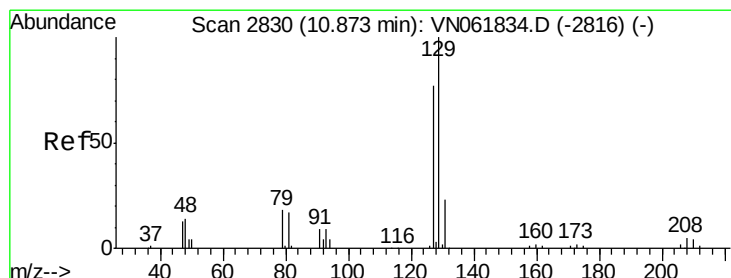
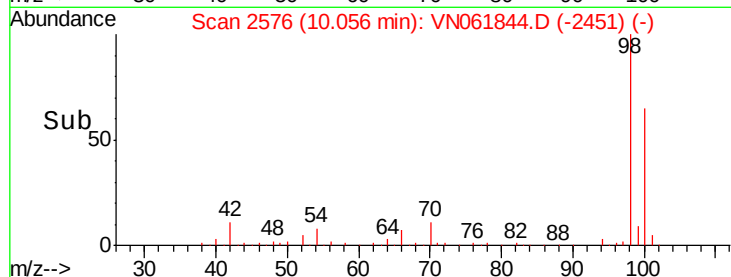
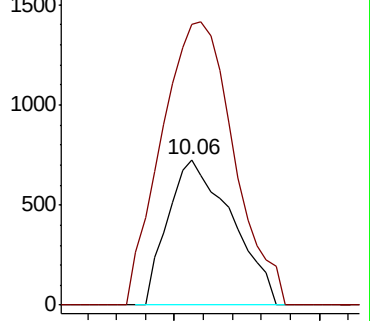
43 100

58 219.8 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: 0.741 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061844.D

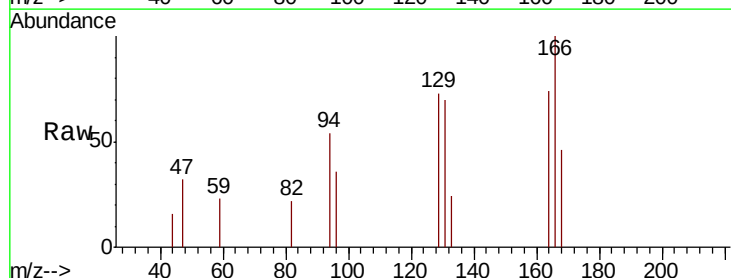
Acq: 17 Jun 2020 13:28

Tgt Ion: 129 Resp: 1421

Ion Ratio Lower Upper

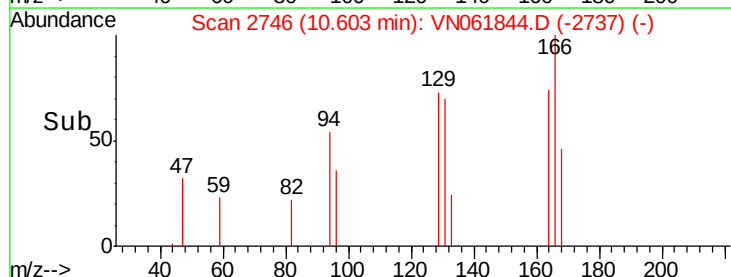
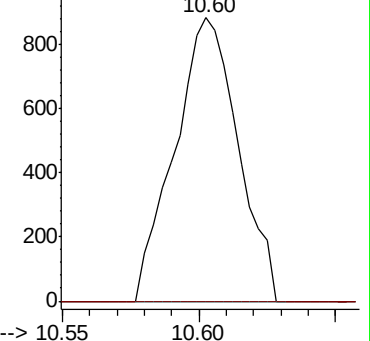
129 100

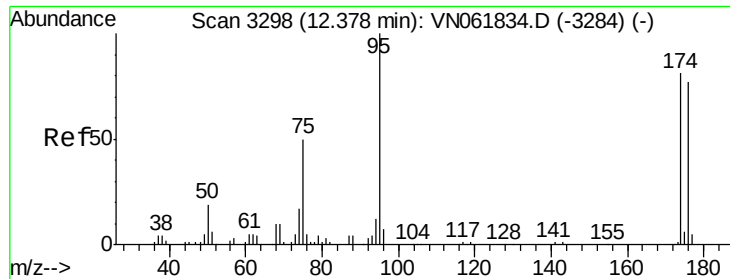
127 0.0 38.5 115.5#



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

Ion 126.80 (126.50 to 127.50): VN061834.D (-2816) (-)

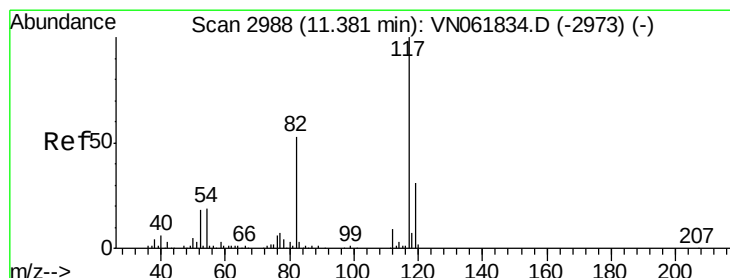
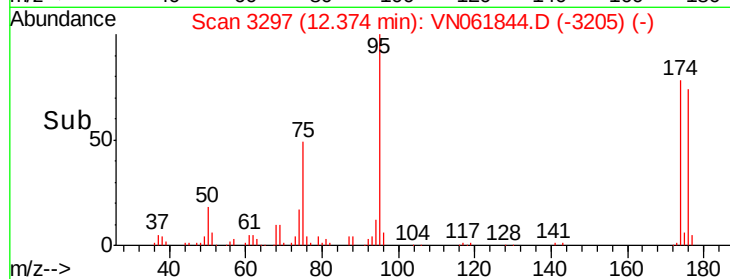
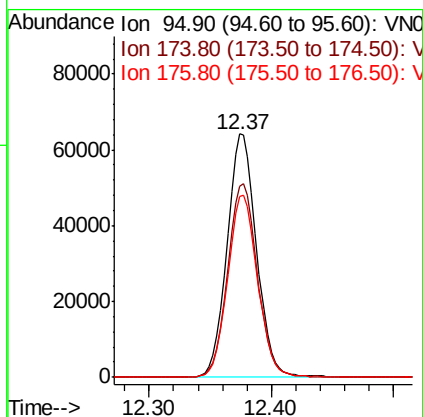
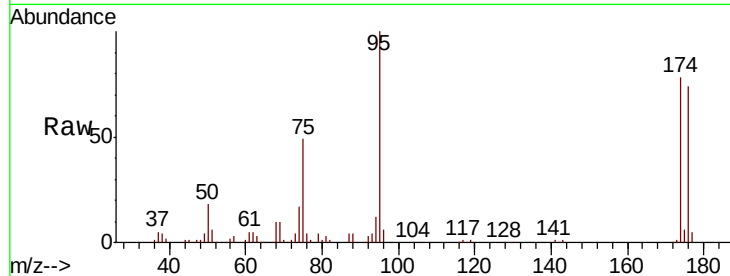




#62
 4-Bromofluorobenzene
 Concen: 49.903 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VN061844.D
 Acq: 17 Jun 2020 13:28

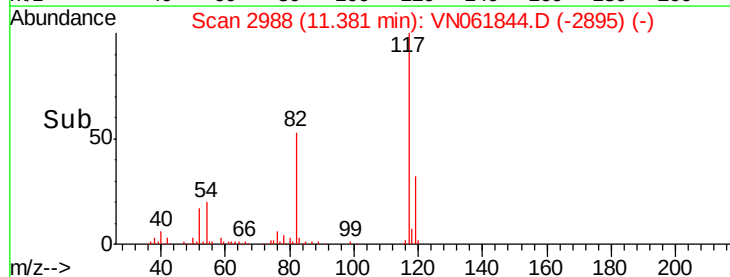
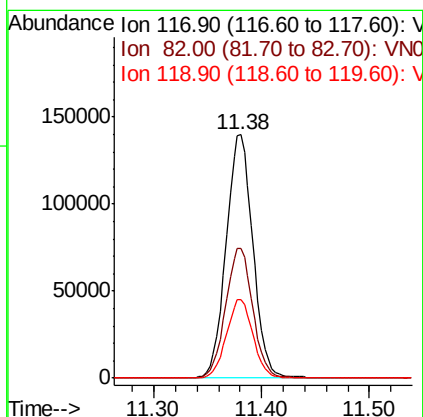
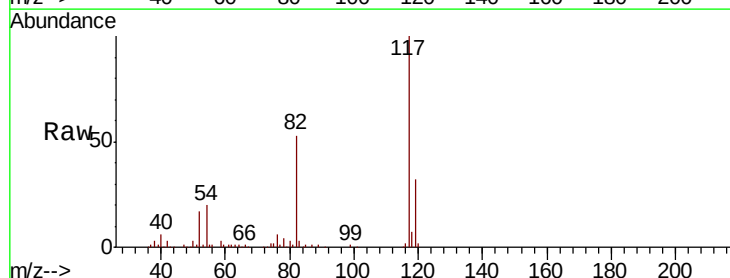
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20200609DL

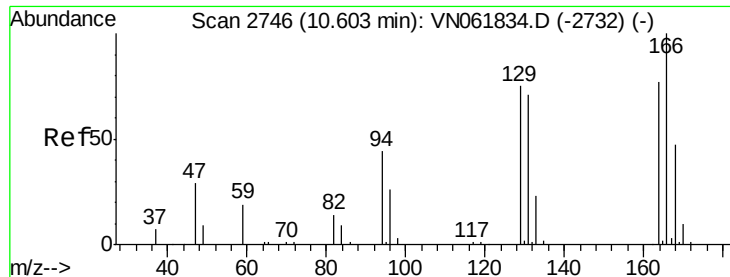
Tot Ion: 95 Resp: 108385
 Ion Ratio Lower Upper
 95 100
 174 80.2 0.0 158.6
 176 76.2 0.0 152.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061844.D
 Acq: 17 Jun 2020 13:28

Tgt Ion: 117 Resp: 242152
 Ion Ratio Lower Upper
 117 100
 82 53.4 42.6 64.0
 119 32.3 24.7 37.1





#64

Tetrachloroethene

Concen: 0.946 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200609DL

Tot Ion:164 Resp: 1460

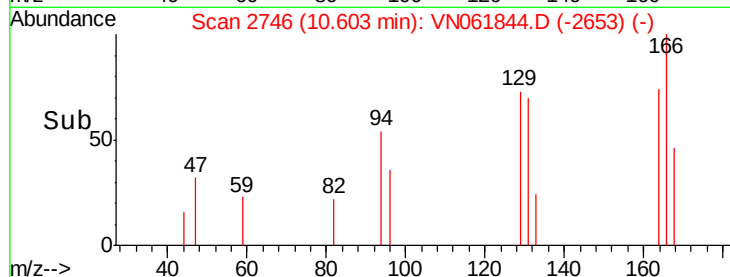
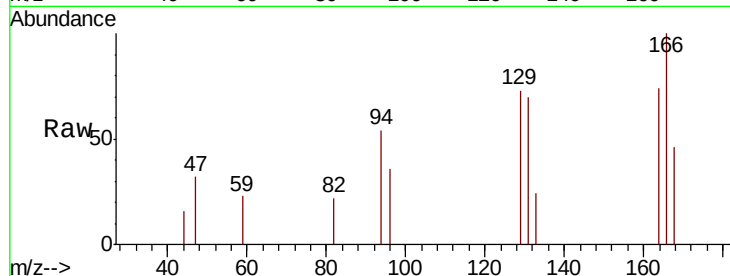
Ion Ratio Lower Upper

164 100

166 135.8 103.5 155.3

129 99.3 77.5 116.3

131 94.7 73.8 110.8

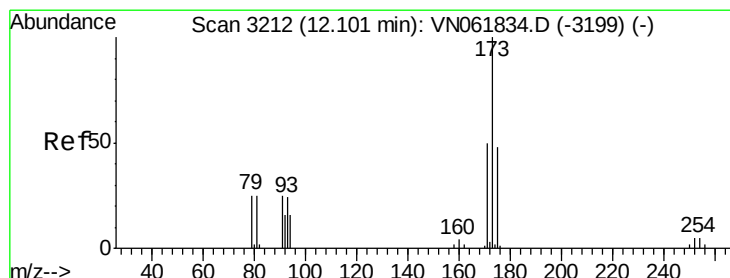
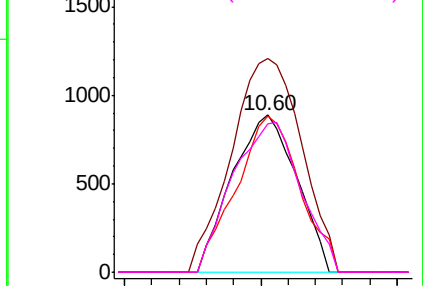


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.494 ug/l

RT: 12.37 min Scan# 3296

Delta R.T. 0.27 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

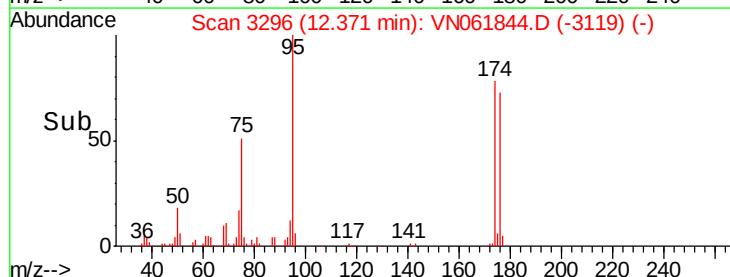
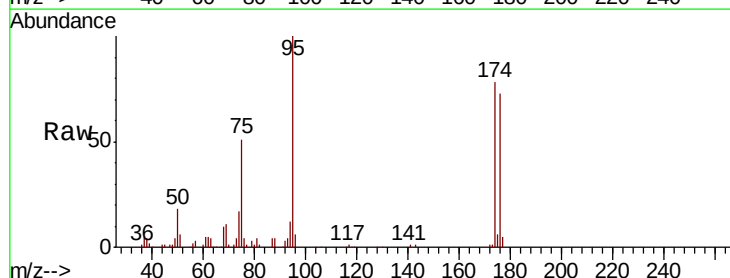
Tgt Ion:173 Resp: 642

Ion Ratio Lower Upper

173 100

175 861.2 23.9 71.7#

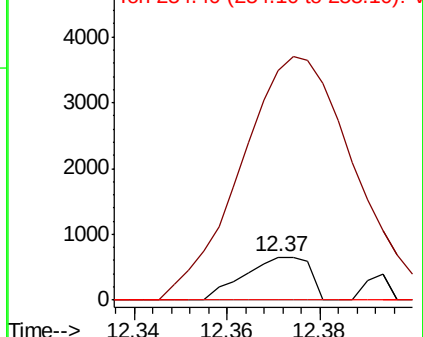
254 0.0 0.0 0.0

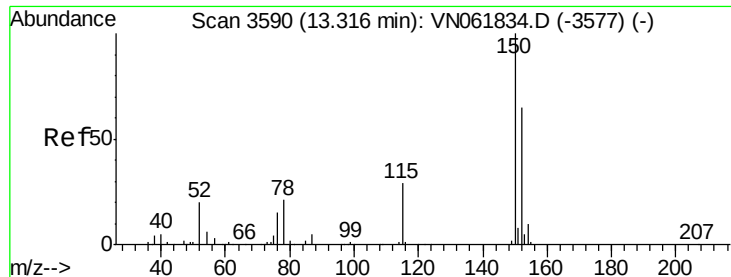


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3590

Delta R.T. -0.00 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200609DL

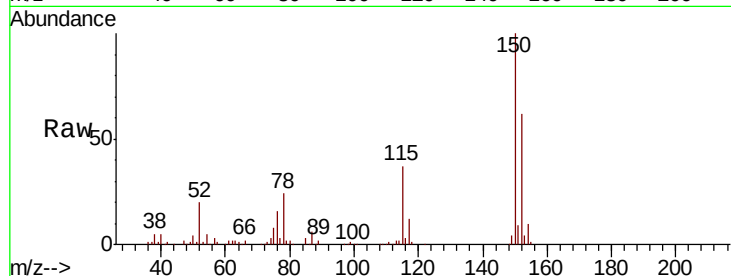
Tot Ion:152 Resp: 101237

Ion Ratio Lower Upper

152 100

115 59.2 29.1 87.3

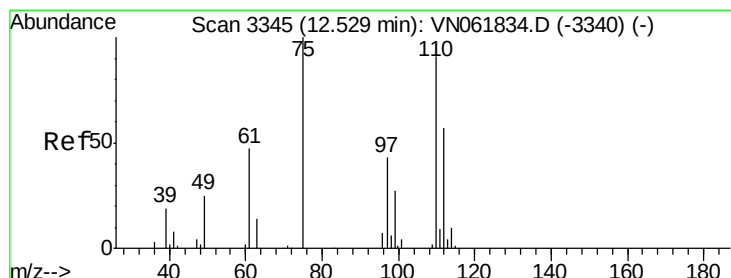
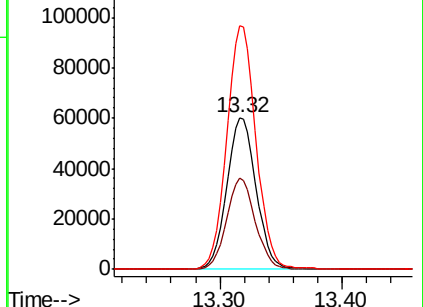
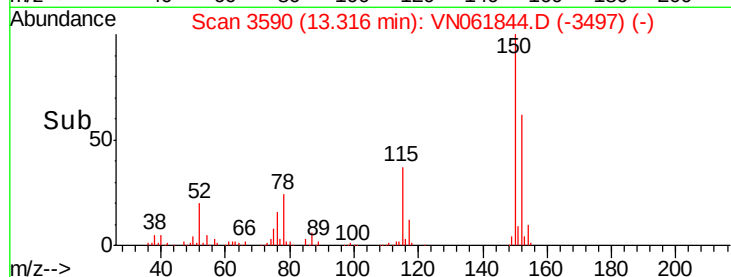
150 159.5 0.0 347.6



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: 26.838 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061844.D

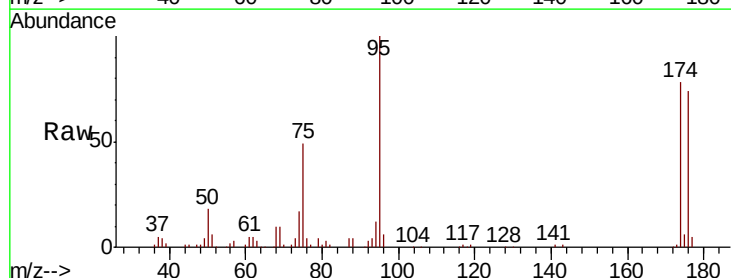
Acq: 17 Jun 2020 13:28

Tgt Ion: 75 Resp: 53341

Ion Ratio Lower Upper

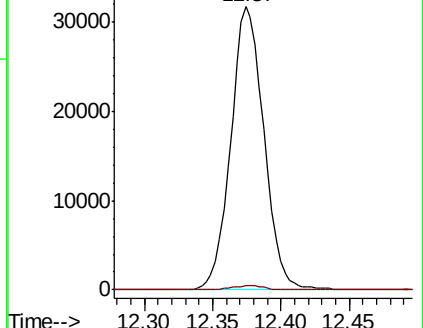
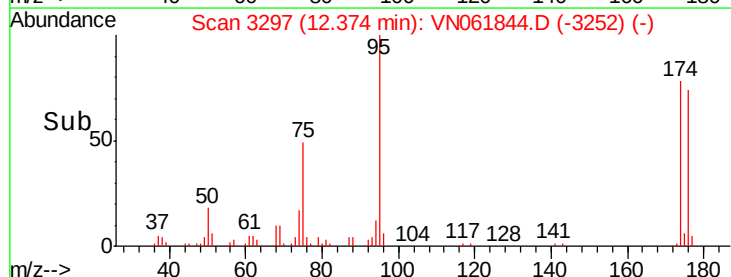
75 100

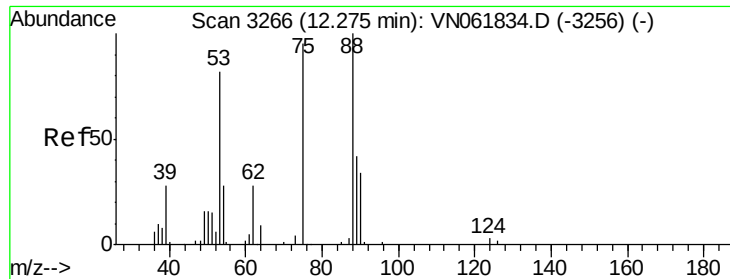
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.198 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20200609DL

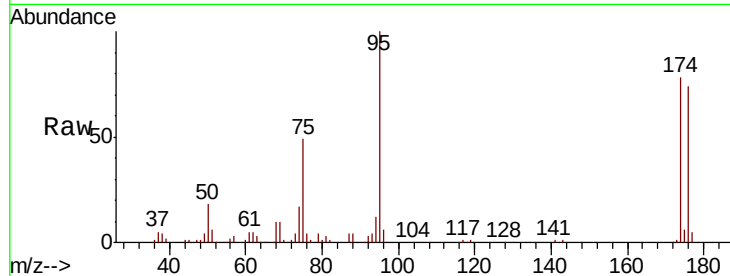
Tot Ion: 75 Resp: 53341

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

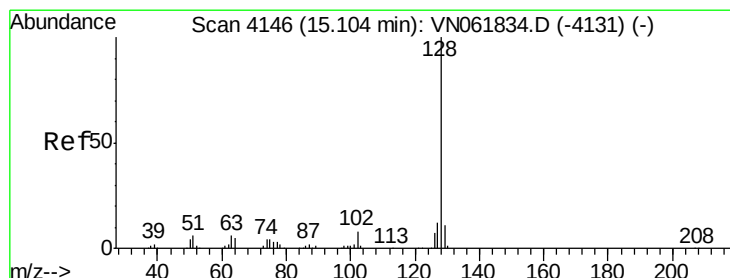
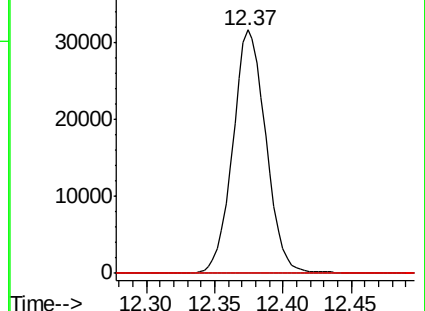
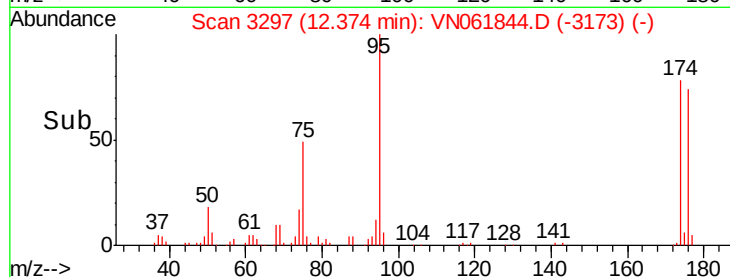
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#95

Naphthalene

Concen: 3.652 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN061844.D

Acq: 17 Jun 2020 13:28

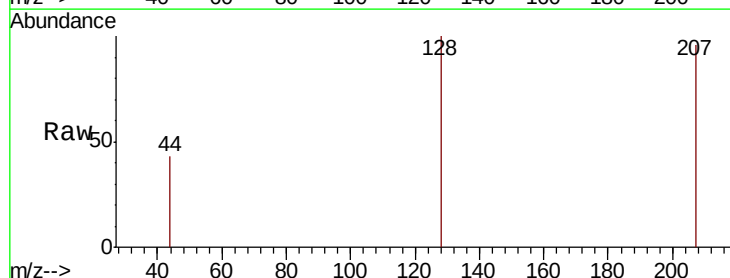
Tgt Ion: 128 Resp: 915

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

