

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061874.D
 Acq On : 18 Jun 2020 2:17
 Operator : JC/MD
 Sample : L3011-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D2-20200611

Quant Time: Jun 18 04:01:05 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	127944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	231971	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	223471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	81776	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	85601	49.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.78%	
35) Dibromofluoromethane	7.55	113	76046	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	
50) Toluene-d8	10.06	98	293434	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.38	95	93464	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	

Target Compounds

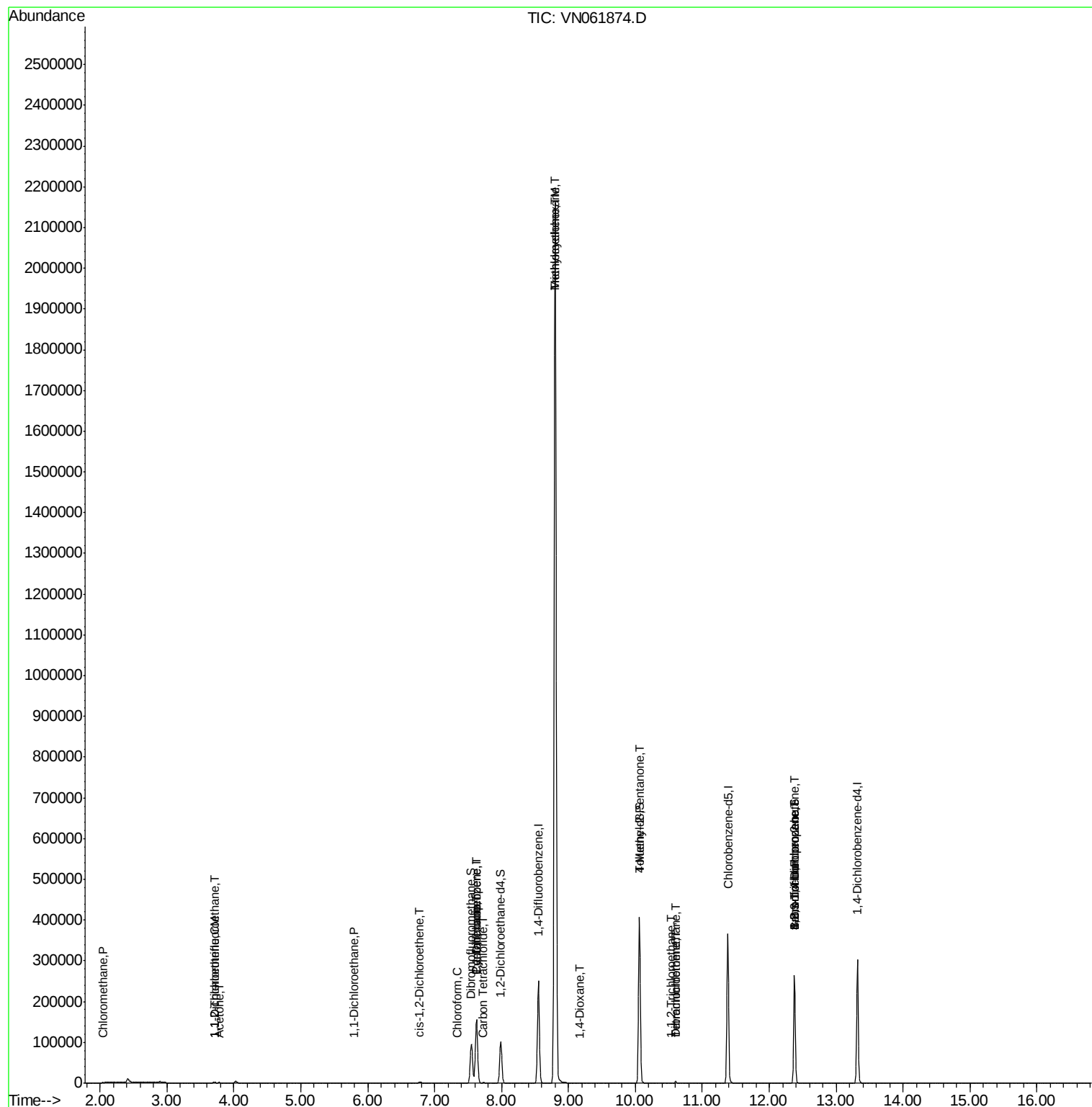
						Qvalue
3) Chloromethane	2.03	50	374	0.211	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.72	101	497	0.383	ug/l #	66
12) 1,1-Dichloroethene	3.71	96	987	0.759	ug/l #	70
16) Acetone	3.78	43	2457	4.848	ug/l	95
24) 1,1-Dichloroethane	5.79	63	1360	0.527	ug/l #	82
27) cis-1,2-Dichloroethene	6.78	96	2327	1.351	ug/l	87
30) Chloroform	7.32	83	851	0.308	ug/l #	83
31) Cyclohexane	7.63	56	2480	1.097	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	10478	4.952	ug/l #	47
38) Carbon Tetrachloride	7.74	117	942	0.450	ug/l #	80
39) Methylcyclohexane	8.80	83	9649	4.235	ug/l #	1
44) Trichloroethene	8.80	130	813931	482.536	ug/l	100
49) 1,4-Dioxane	9.17	88	244	8.393	ug/l #	49
51) 4-Methyl-2-Pentanone	10.06	43	928	0.564	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	389	0.246	ug/l	92
60) Dibromochloromethane	10.60	129	975	0.552	ug/l #	11
64) Tetrachloroethene	10.60	164	757	0.531	ug/l #	69
71) Bromoform	12.38	173	783	0.653	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	45814	28.536	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	45814	77.830	ug/l #	14

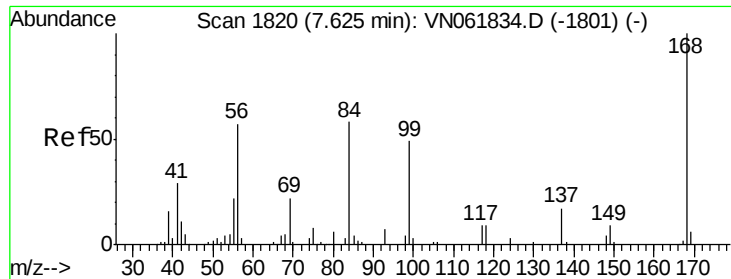
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

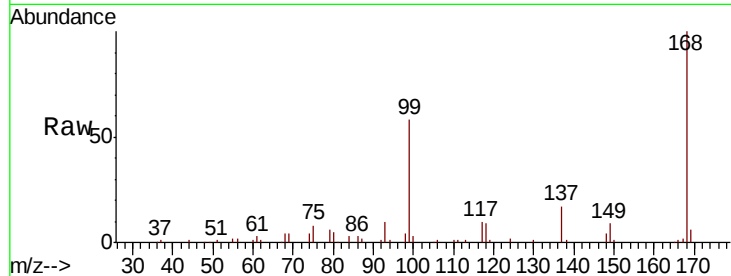
RE126D2-20200611

Tot Ion:168 Resp: 127944

Ion Ratio Lower Upper

168 100

99 57.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.63

60000

50000

40000

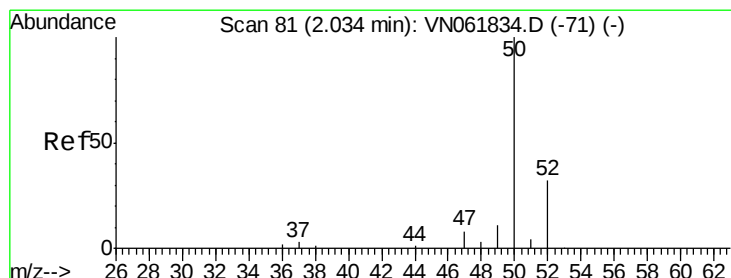
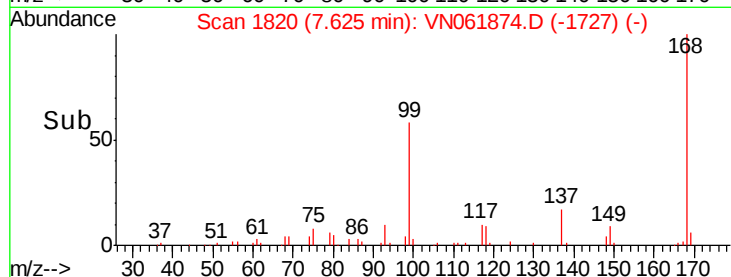
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.211 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061874.D

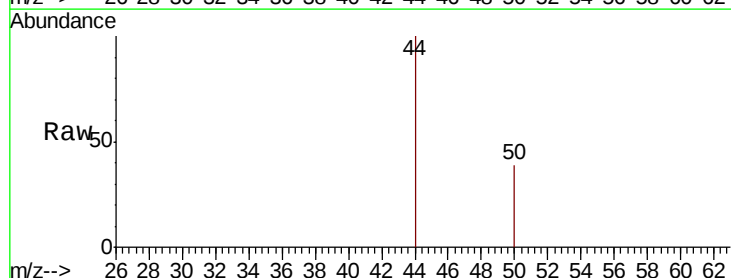
Acq: 18 Jun 2020 2:17

Tgt Ion: 50 Resp: 374

Ion Ratio Lower Upper

50 100

52 0.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): V

Ion 51.90 (51.60 to 52.60): V

2.03

400

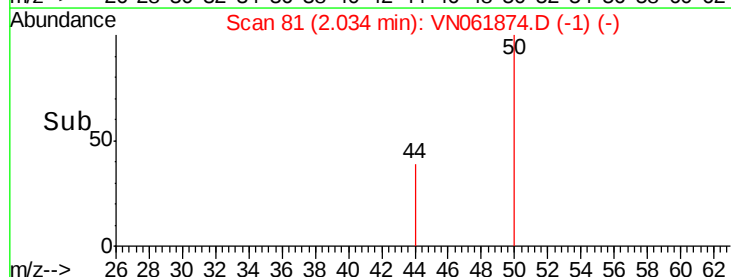
300

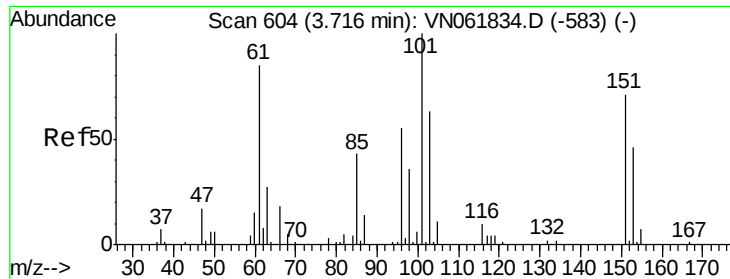
200

100

0

Time--> 2.02 2.04 2.06





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.383 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

RE126D2-20200611

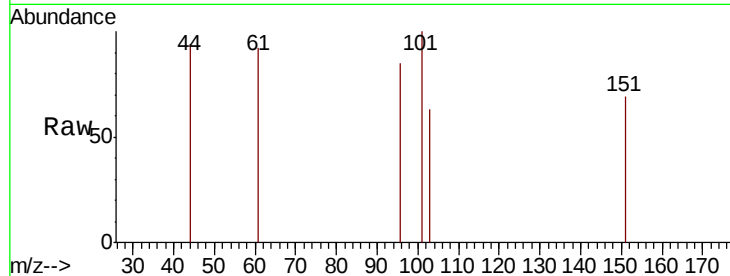
Tot Ion:101 Resp: 497

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.6#

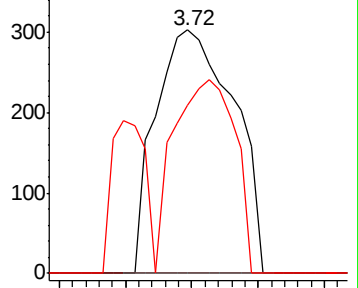
151 62.4 59.2 88.8



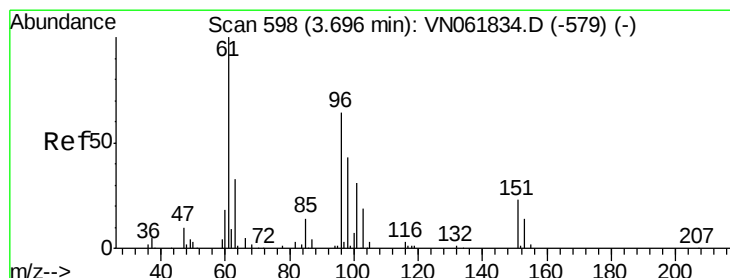
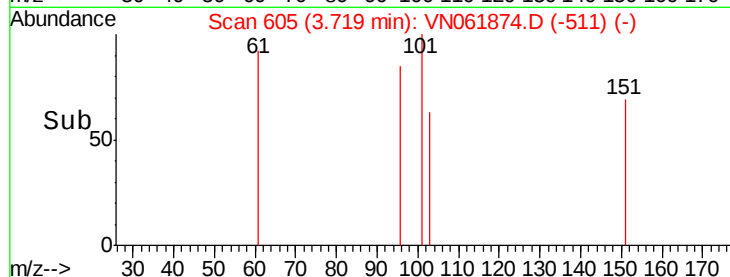
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



Time-->



#12

1,1-Dichloroethene

Concen: 0.759 ug/l

RT: 3.71 min Scan# 602

Delta R.T. 0.01 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

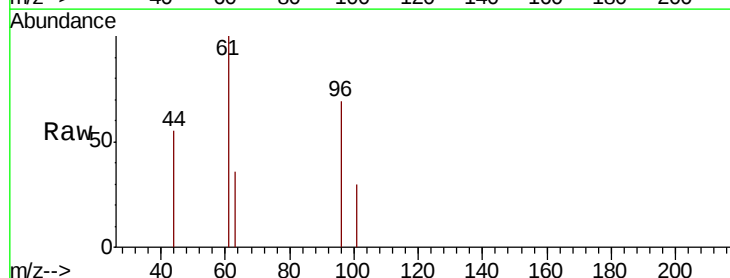
Tgt Ion: 96 Resp: 987

Ion Ratio Lower Upper

96 100

61 145.7 124.3 186.5

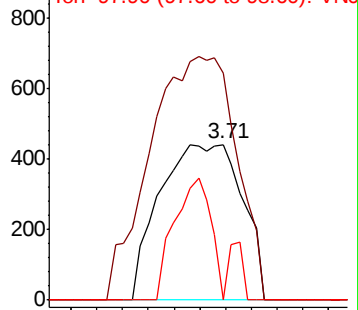
98 0.0 53.1 79.7#



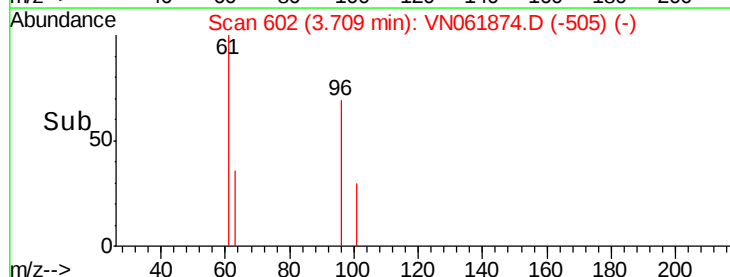
Abundance Ion 95.90 (95.60 to 96.60): VNO

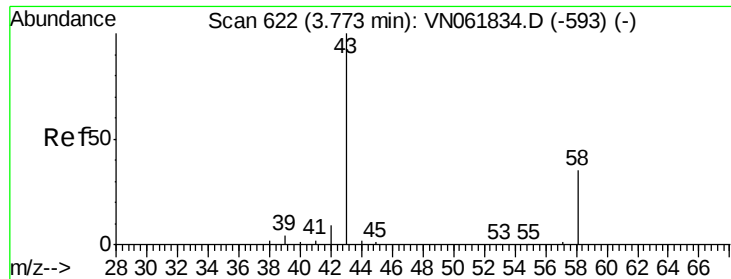
Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



Time-->





#16

Acetone

Concen: 4.848 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

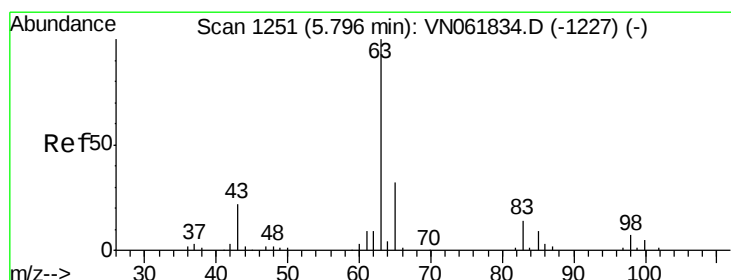
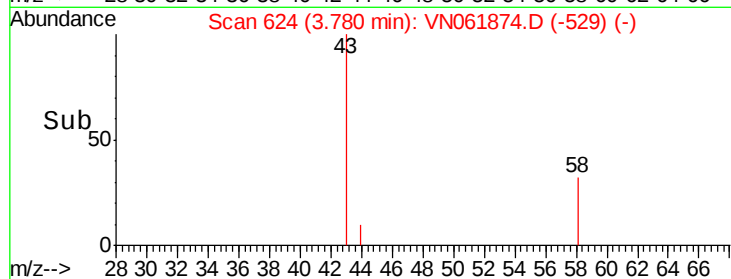
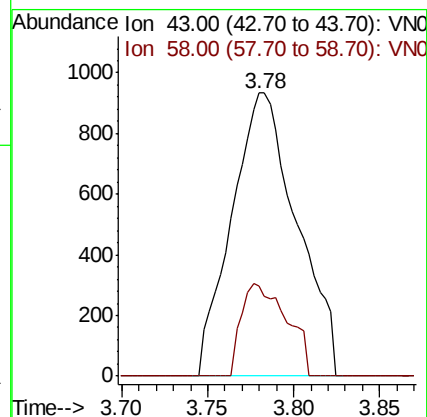
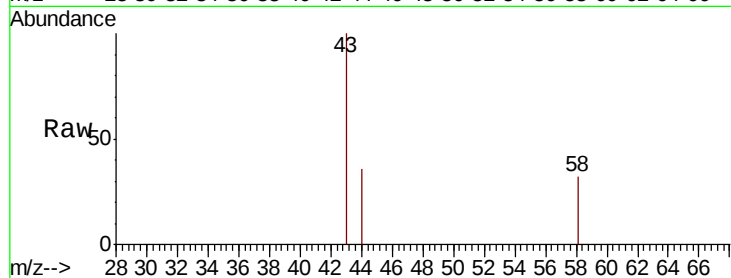
RE126D2-20200611

Tot Ion: 43 Resp: 2457

Ion Ratio Lower Upper

43 100

58 32.0 27.8 41.8



#24

1,1-Dichloroethane

Concen: 0.527 ug/l

RT: 5.79 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

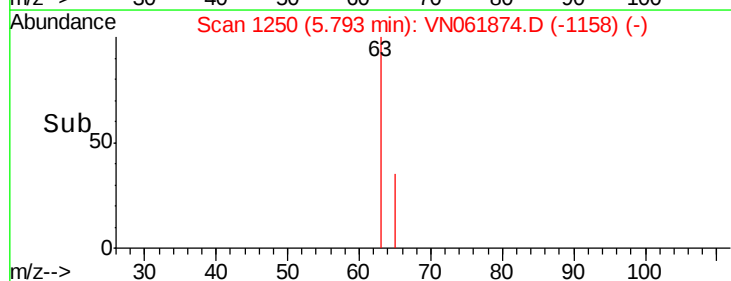
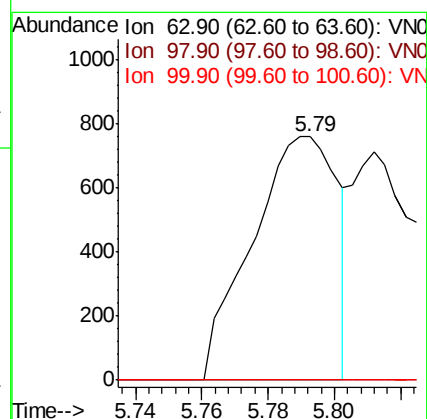
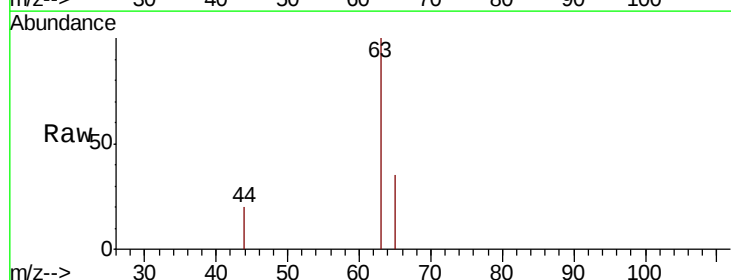
Tgt Ion: 63 Resp: 1360

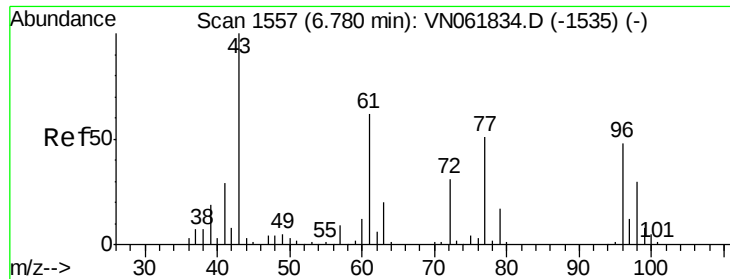
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.4#





#27

cis-1,2-Dichloroethene

Concen: 1.351 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

RE126D2-20200611

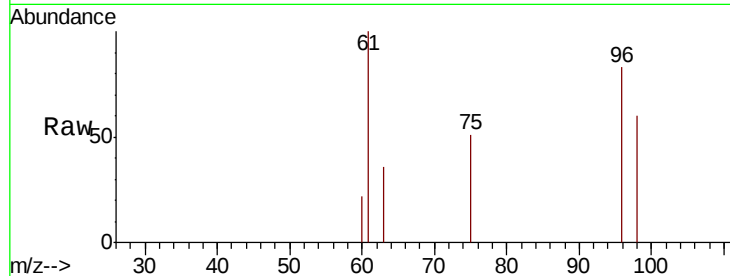
Tot Ion: 96 Resp: 2327

Ion Ratio Lower Upper

96 100

61 112.8 0.0 265.6

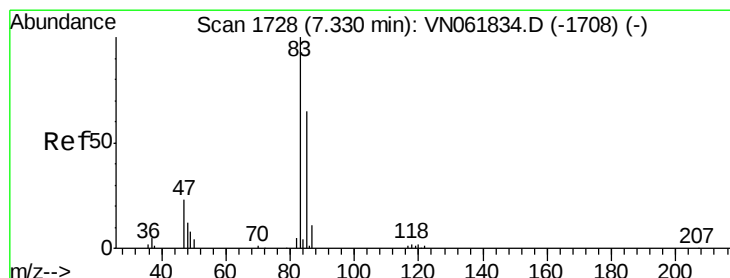
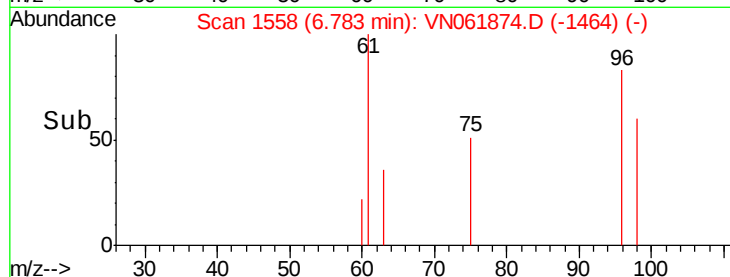
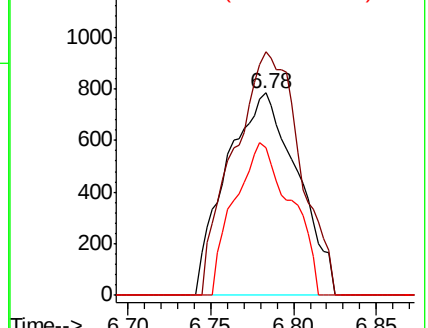
98 60.3 0.0 128.2



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

Ion 60.90 (60.60 to 61.60): VN061834.D (-1535) (-)

Ion 97.90 (97.60 to 98.60): VN061834.D (-1535) (-)



#30

Chloroform

Concen: 0.308 ug/l

RT: 7.32 min Scan# 1726

Delta R.T. -0.01 min

Lab File: VN061874.D

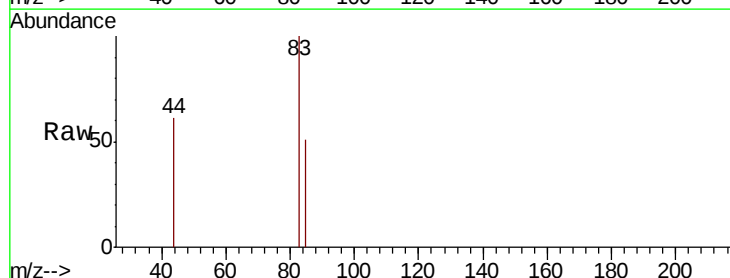
Acq: 18 Jun 2020 2:17

Tgt Ion: 83 Resp: 851

Ion Ratio Lower Upper

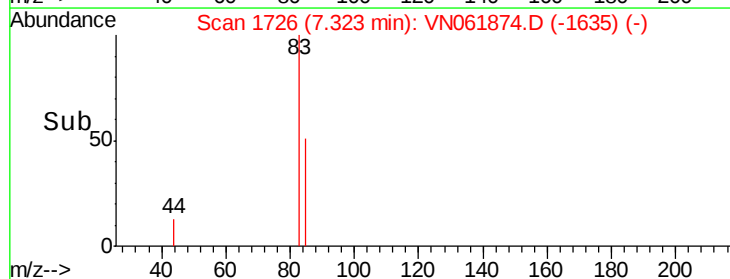
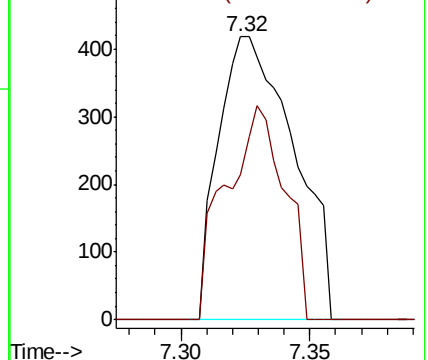
83 100

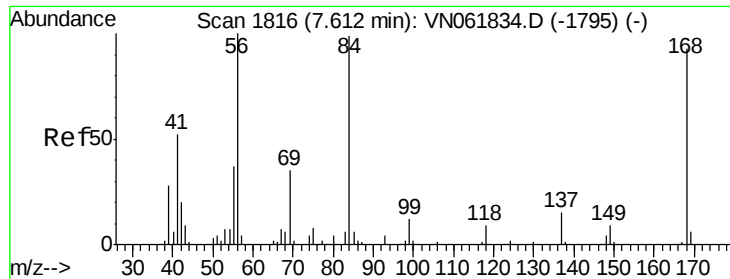
85 51.4 52.0 78.0#



Abundance Ion 82.90 (82.60 to 83.60): VN061834.D (-1708) (-)

Ion 84.90 (84.60 to 85.60): VN061834.D (-1708) (-)

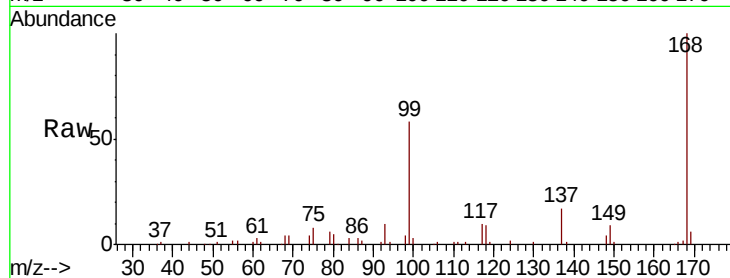




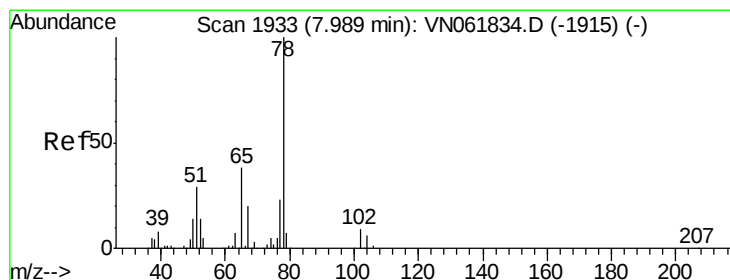
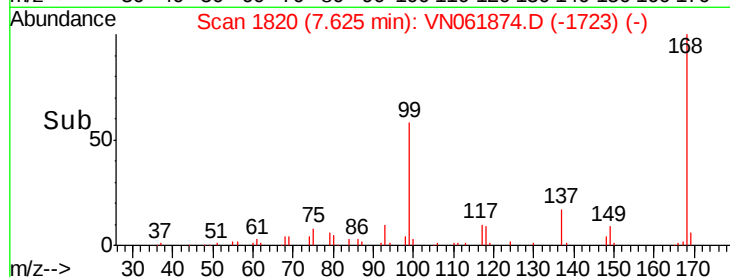
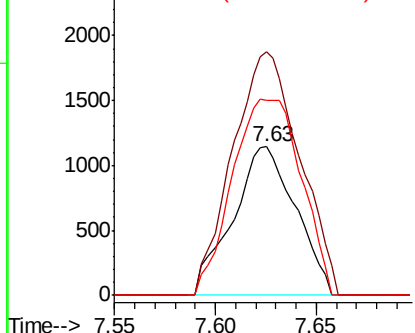
#31
Cyclohexane
Concen: 1.097 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Instrument :
MSVOA_N
ClientSampleId :
RE126D2-20200611

Tot Ion: 56 Resp: 2480
Ion Ratio Lower Upper
56 100
69 164.0 27.7 41.5#
84 131.3 79.1 118.7#

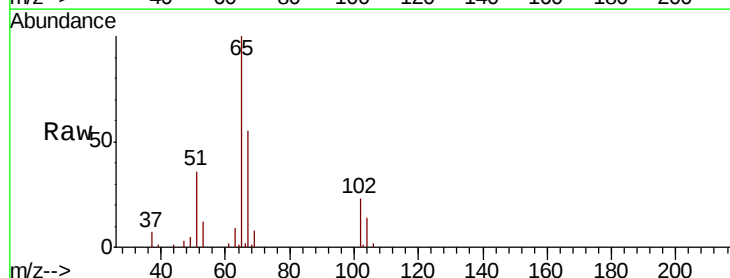


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

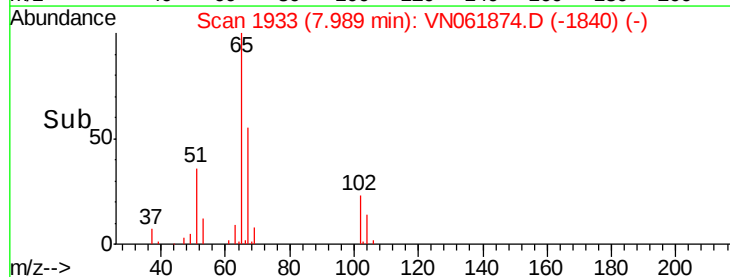
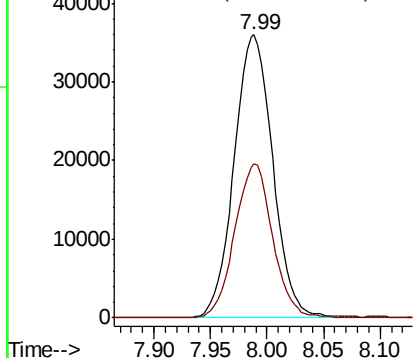


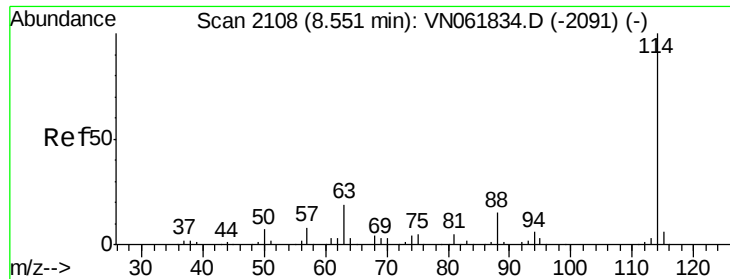
#33
1,2-Dichloroethane-d4
Concen: 49.886 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Tgt Ion: 65 Resp: 85601
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.2



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

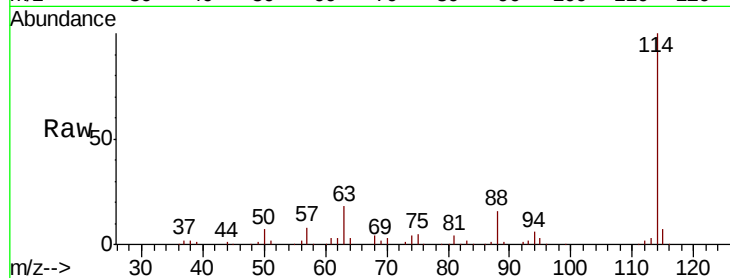




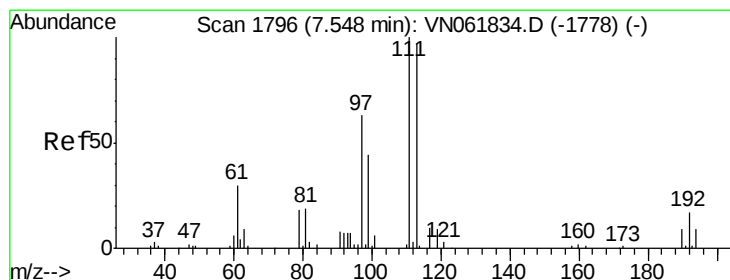
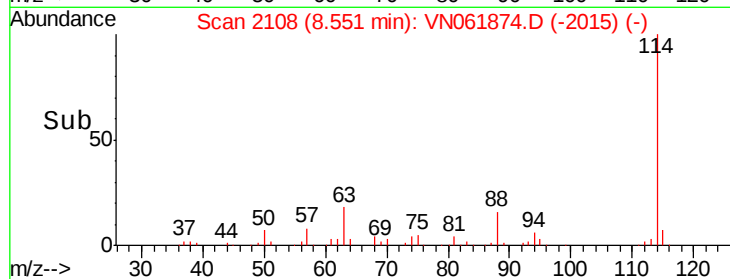
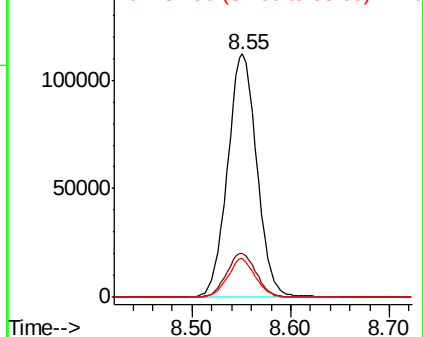
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D2-20200611

Tot Ion:114 Resp: 231971
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 37.6
 88 15.7 0.0 31.0

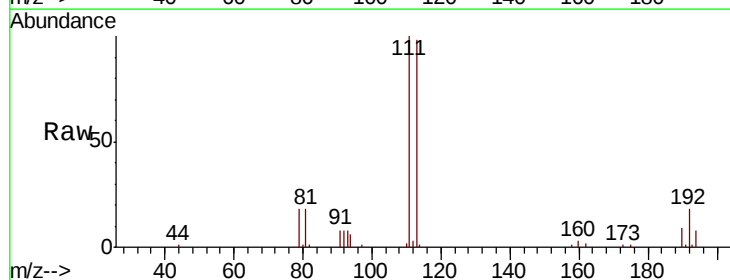


Abundance Ion 113.90 (113.60 to 114.60): V
 150000 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

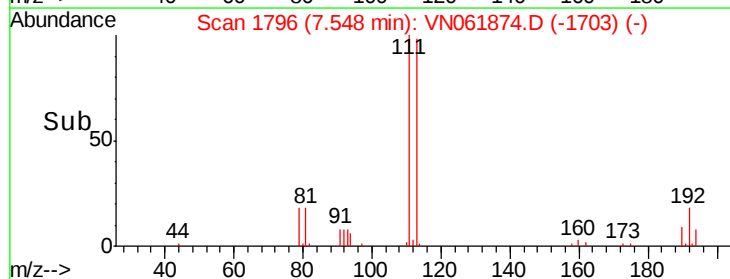
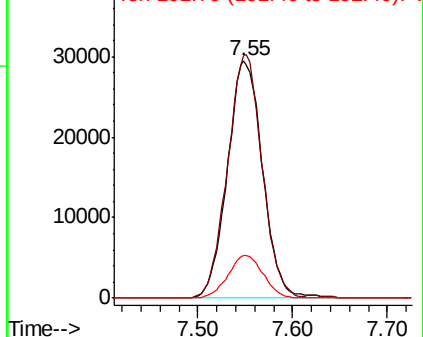


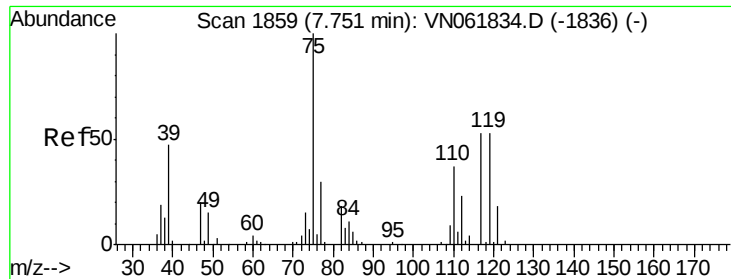
#35
 Dibromofluoromethane
 Concen: 51.243 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

Tgt Ion:113 Resp: 76046
 Ion Ratio Lower Upper
 113 100
 111 100.8 83.7 125.5
 192 17.8 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V
 40000 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

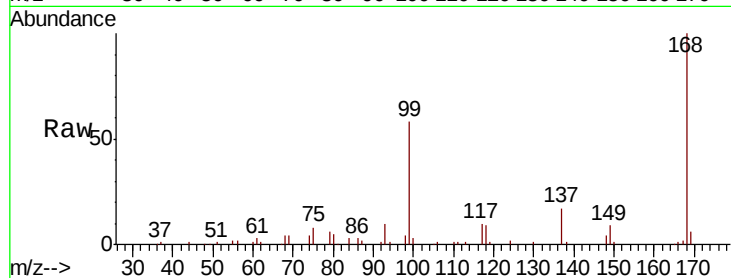




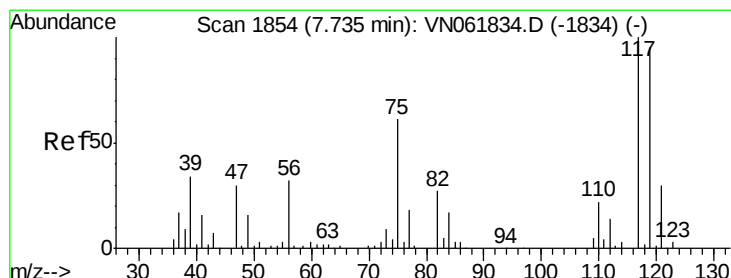
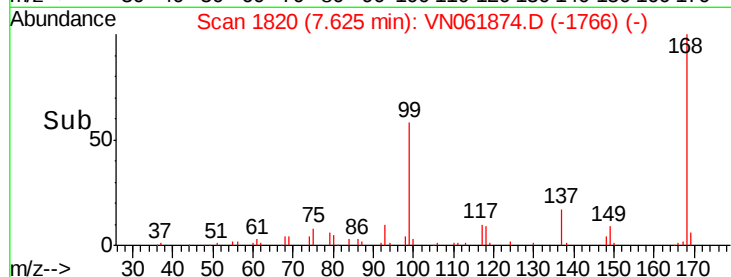
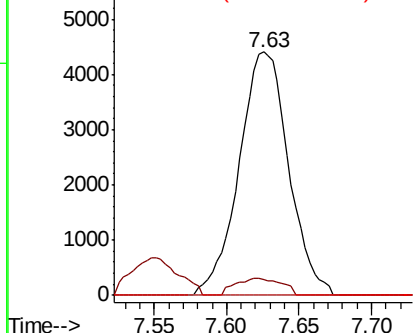
#36
 1,1-Dichloropropene
 Concen: 4.952 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D2-20200611

Tot Ion: 75 Resp: 10478
 Ion Ratio Lower Upper
 75 100
 110 6.5 18.2 54.6#
 77 0.0 24.2 36.4#

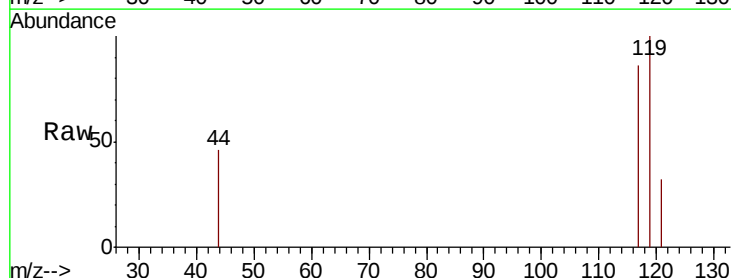


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

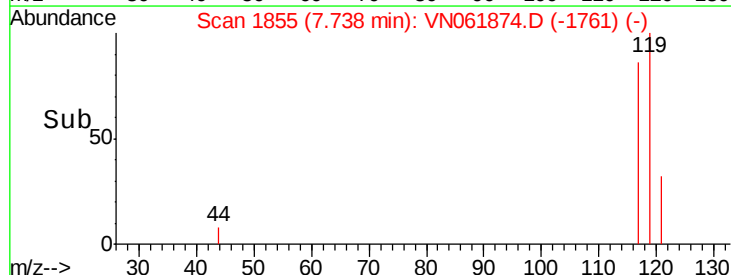
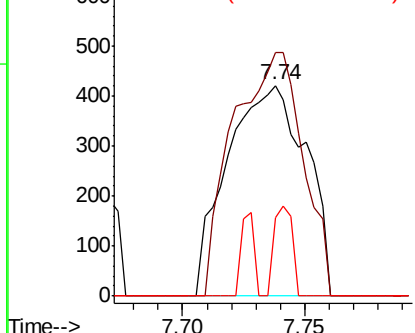


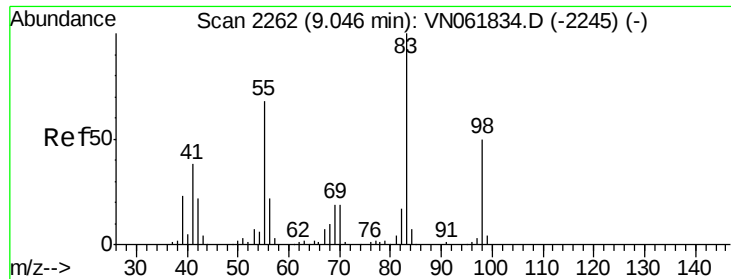
#38
 Carbon Tetrachloride
 Concen: 0.450 ug/l
 RT: 7.74 min Scan# 1855
 Delta R.T. 0.00 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

Tgt Ion: 117 Resp: 942
 Ion Ratio Lower Upper
 117 100
 119 115.7 75.8 113.6#
 121 37.5 23.8 35.6#



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

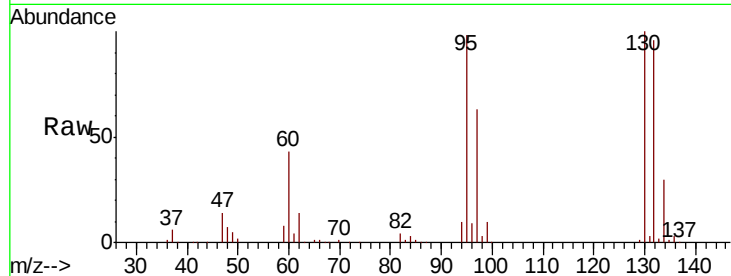




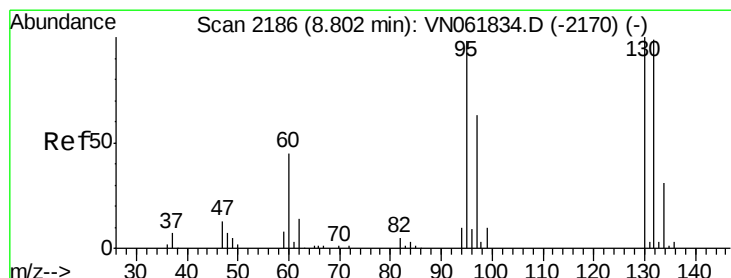
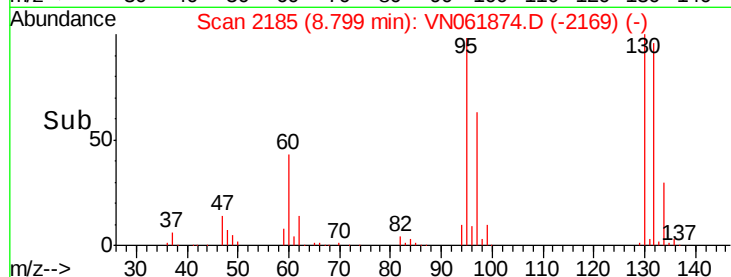
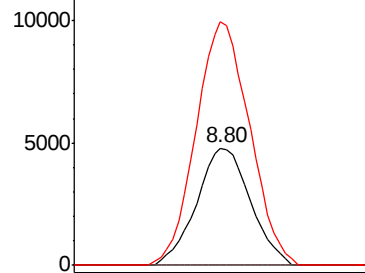
#39
Methylcyclohexane
Concen: 4.235 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Instrument :
MSVOA_N
ClientSampleId :
RE126D2-20200611

Tot Ion: 83 Resp: 9649
Ion Ratio Lower Upper
83 100
55 0.0 54.2 81.4#
98 207.6 39.8 59.6#

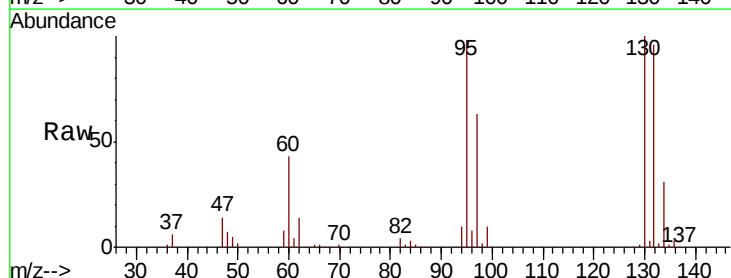


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

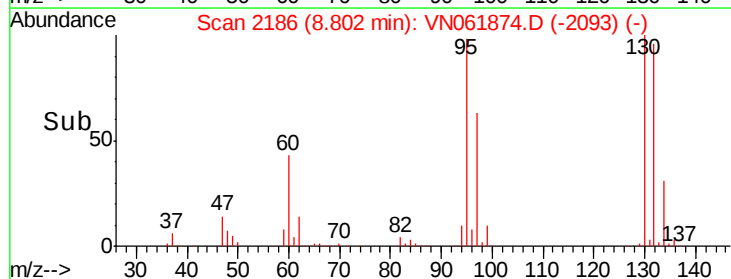
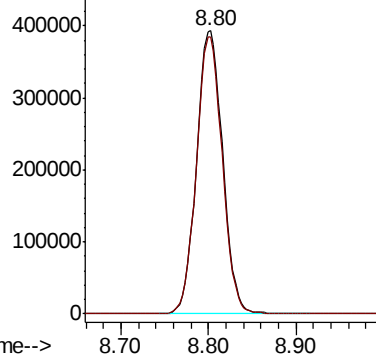


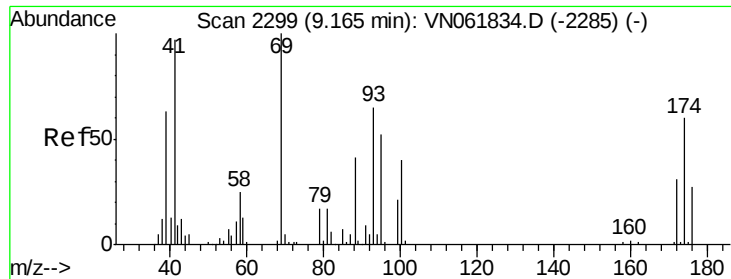
#44
Trichloroethene
Concen: 482.536 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Tgt Ion:130 Resp: 813931
Ion Ratio Lower Upper
130 100
95 97.8 0.0 195.6



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

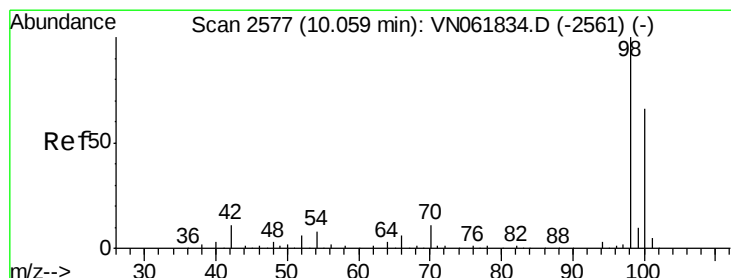
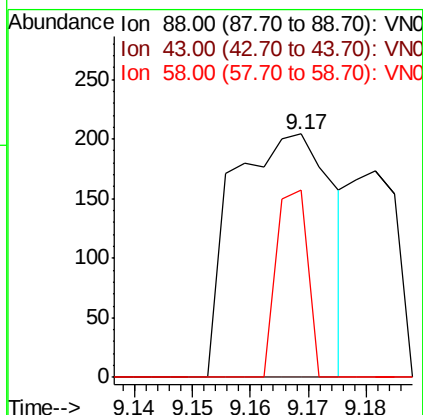
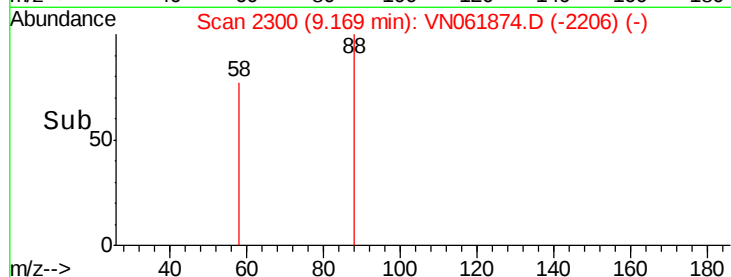
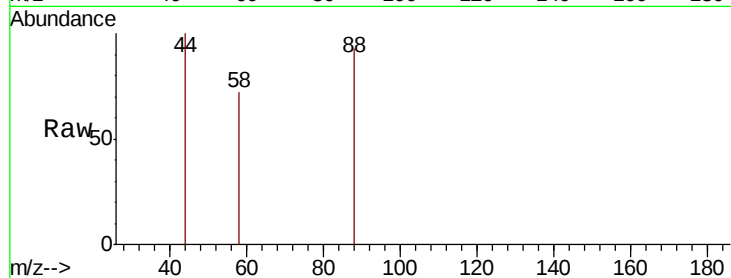




#49
1,4-Dioxane
Concen: 8.393 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

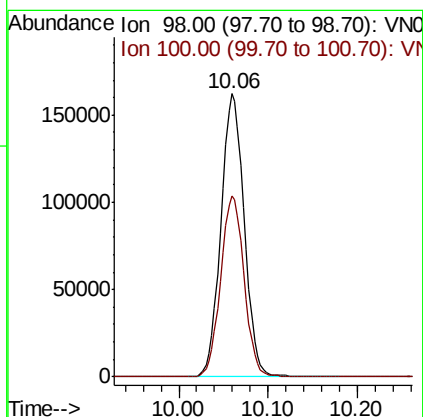
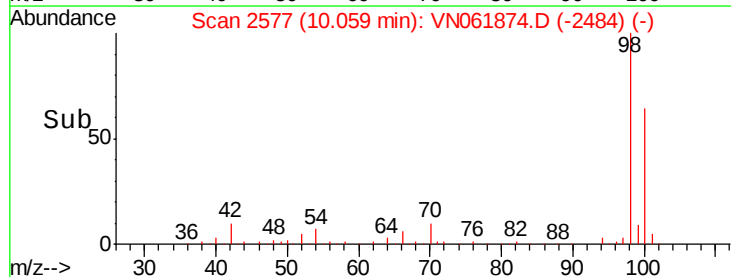
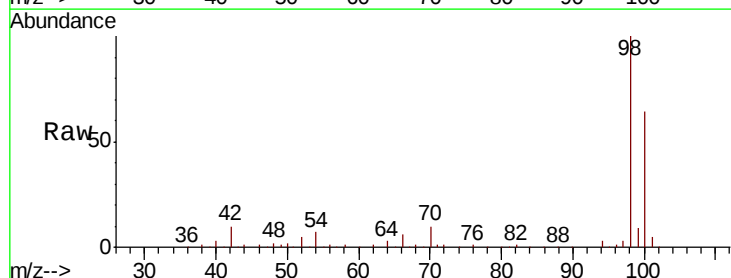
Instrument :
MSVOA_N
ClientSampleId :
RE126D2-20200611

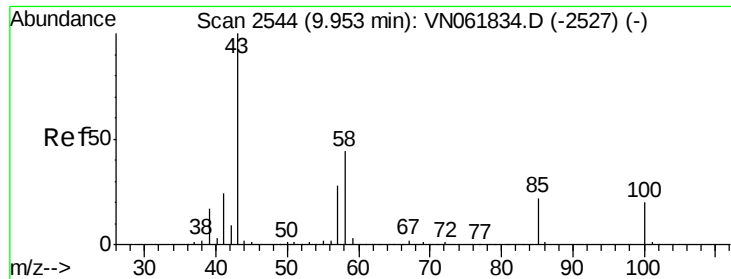
Tot Ion: 88 Resp: 244
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 24.2 49.8 74.6#



#50
Toluene-d8
Concen: 50.294 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Tgt Ion: 98 Resp: 293434
Ion Ratio Lower Upper
98 100
100 64.2 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 0.564 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

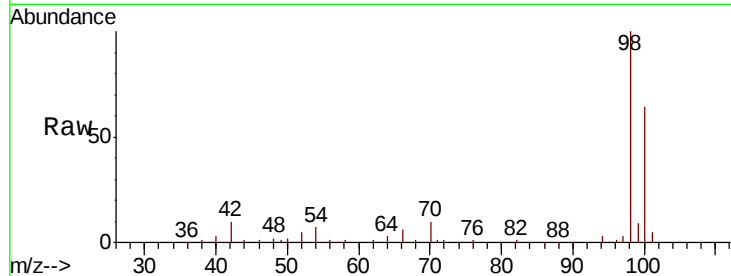
RE126D2-20200611

Tot Ion: 43 Resp: 928

Ion Ratio Lower Upper

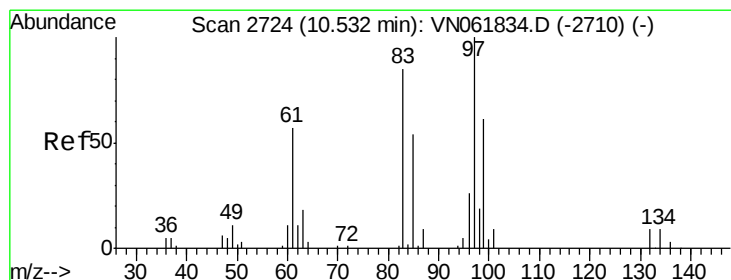
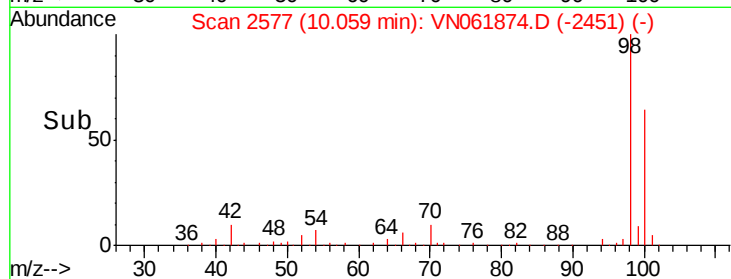
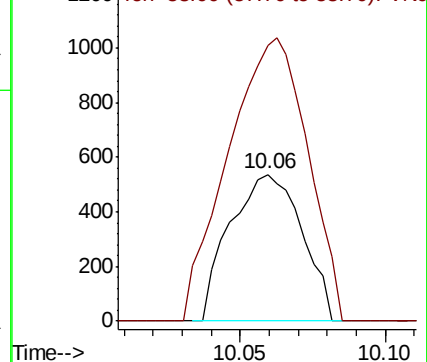
43 100

58 213.1 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) (-)



#55

1,1,2-Trichloroethane

Concen: 0.246 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Tgt Ion: 97 Resp: 389

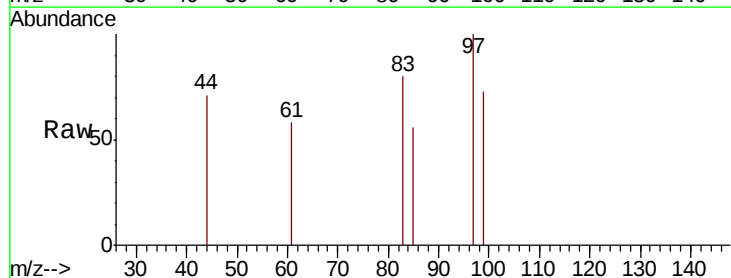
Ion Ratio Lower Upper

97 100

83 79.8 67.7 101.5

85 56.0 43.4 65.0

99 72.7 48.8 73.2

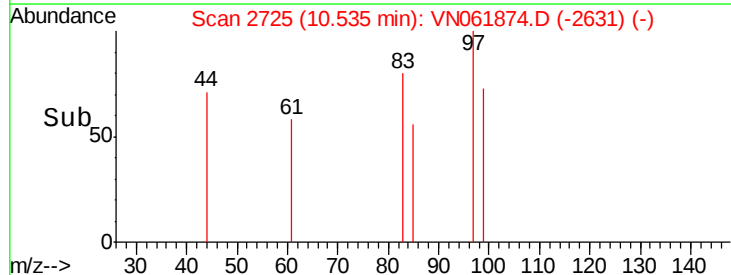
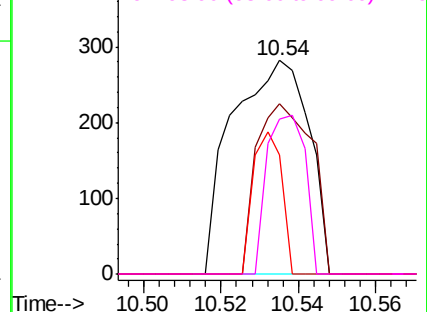


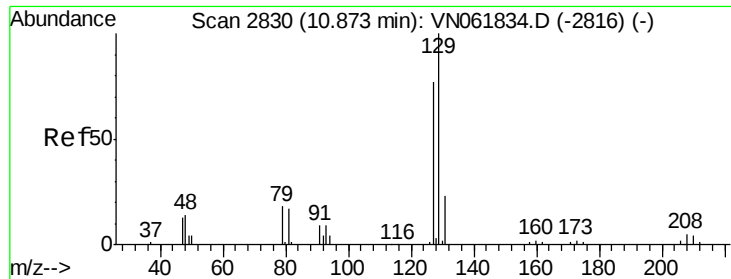
Abundance Ion 96.90 (96.60 to 97.60): VN061834.D (-2710) (-)

Ion 82.90 (82.60 to 83.60): VN061834.D (-2710) (-)

Ion 84.90 (84.60 to 85.60): VN061834.D (-2710) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-2710) (-)

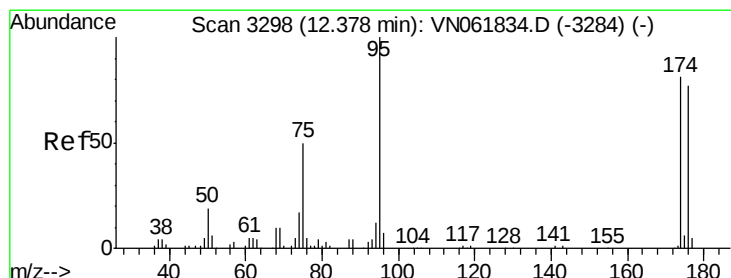
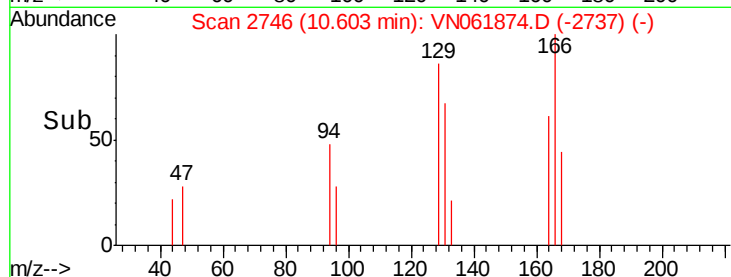
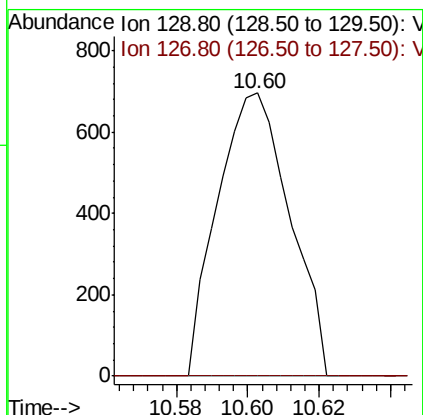
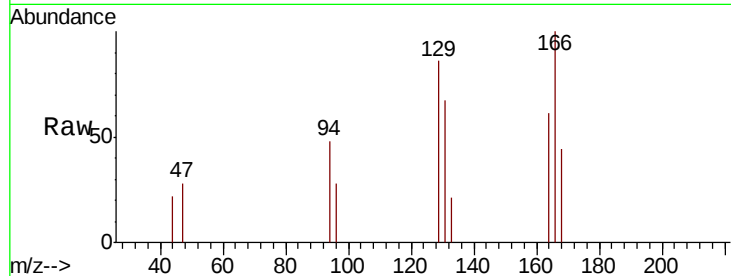




#60
 Dibromochloromethane
 Concen: 0.552 ug/l
 RT: 10.60 min Scan# 2746
 Delta R.T. -0.27 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

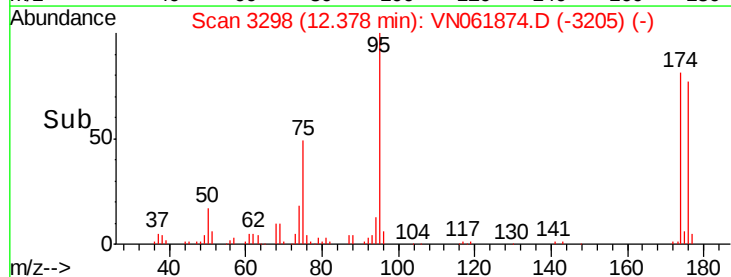
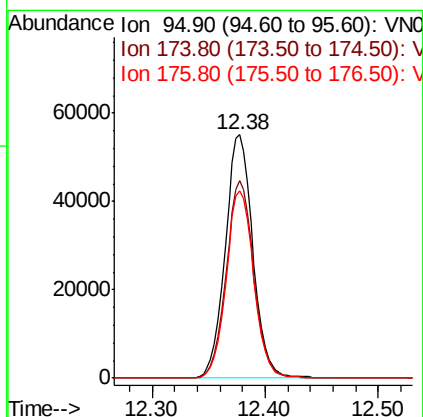
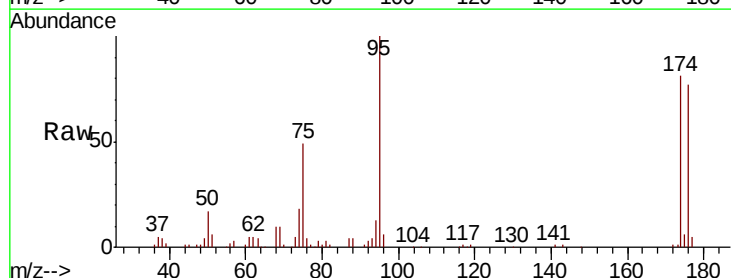
Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D2-20200611

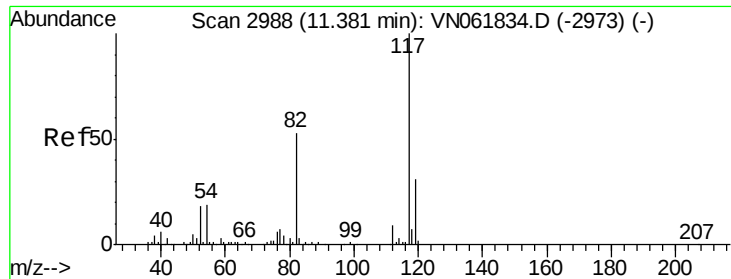
Tot Ion:129 Resp: 975
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#



#62
 4-Bromofluorobenzene
 Concen: 46.703 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061874.D
 Acq: 18 Jun 2020 2:17

Tgt Ion: 95 Resp: 93464
 Ion Ratio Lower Upper
 95 100
 174 80.7 0.0 158.6
 176 76.8 0.0 152.0

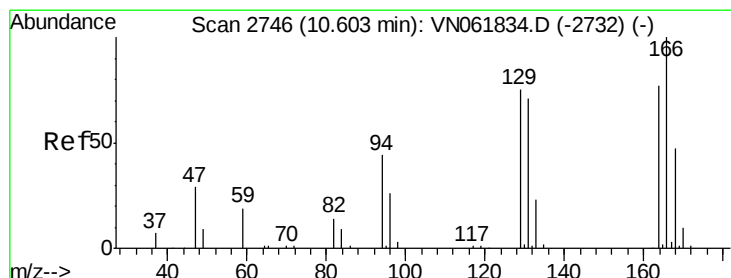
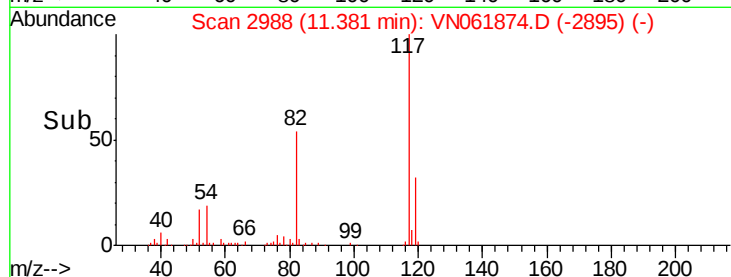
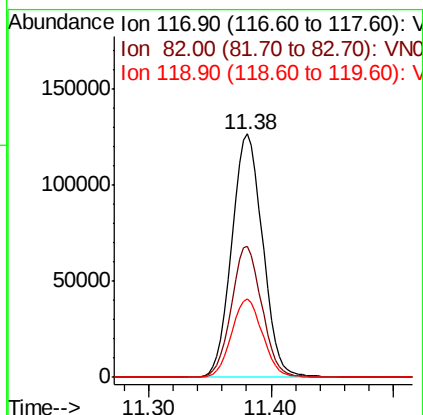
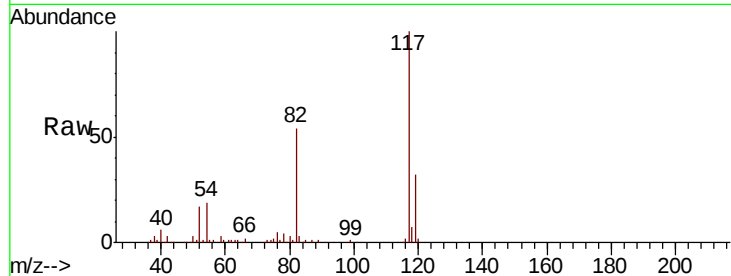




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

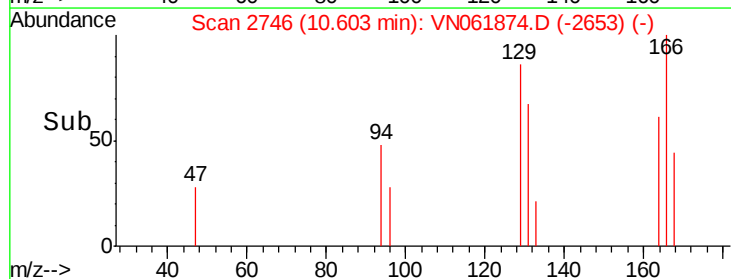
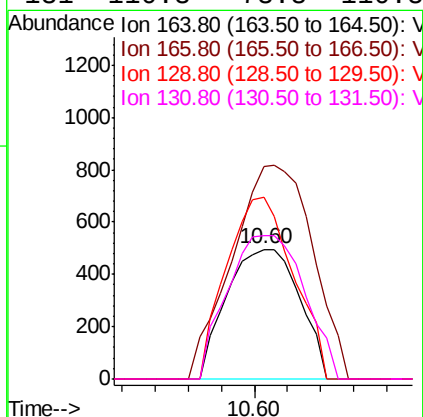
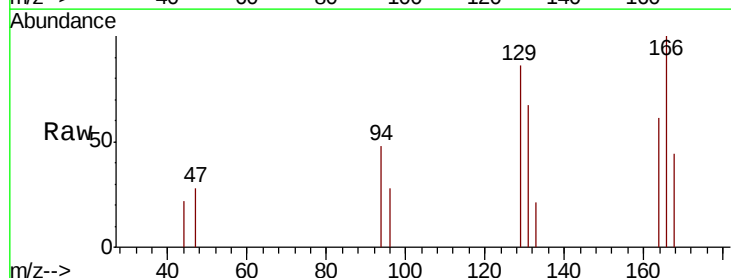
Instrument :
MSVOA_N
ClientSampleId :
RE126D2-20200611

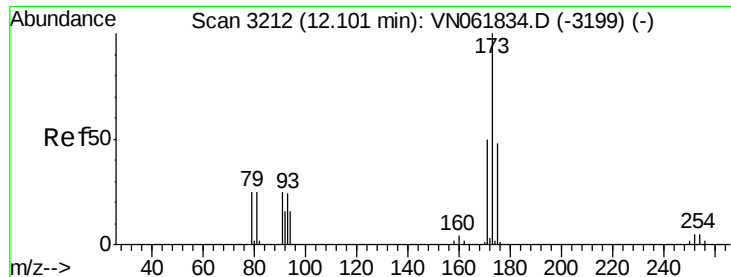
Tot Ion:117 Resp: 223471
Ion Ratio Lower Upper
117 100
82 53.5 42.6 64.0
119 32.1 24.7 37.1



#64
Tetrachloroethene
Concen: 0.531 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061874.D
Acq: 18 Jun 2020 2:17

Tgt Ion:164 Resp: 757
Ion Ratio Lower Upper
164 100
166 163.5 103.5 155.3#
129 140.3 77.5 116.3#
131 110.3 73.8 110.8





#71

Bromoform

Concen: 0.653 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

RE126D2-20200611

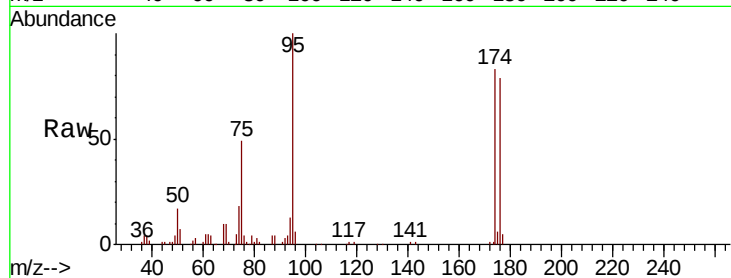
Tot Ion:173 Resp: 783

Ion Ratio Lower Upper

173 100

175 589.3 23.9 71.7#

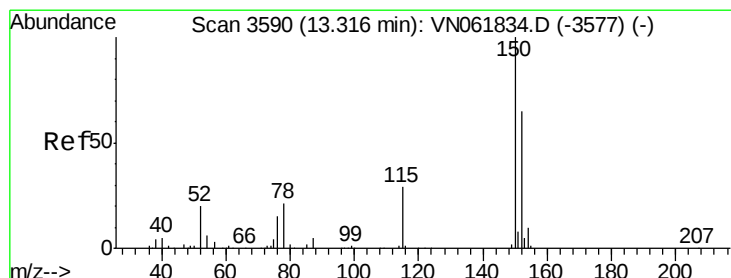
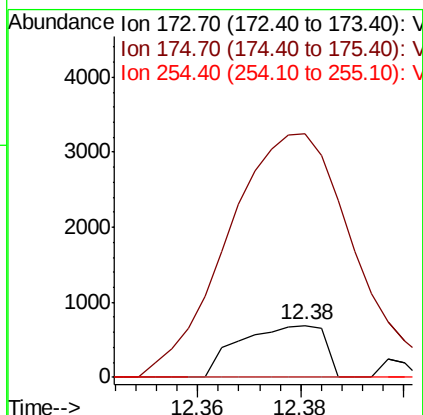
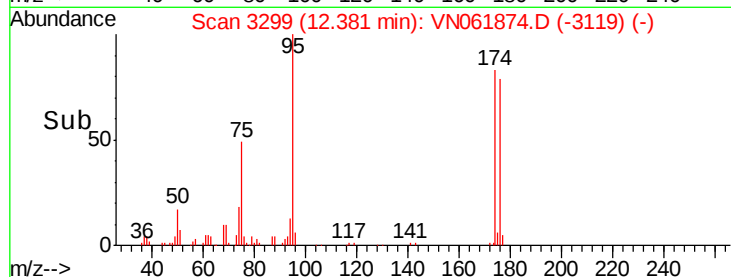
254 0.0 0.0 0.0



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: VN061874.D

Acq: 18 Jun 2020 2:17

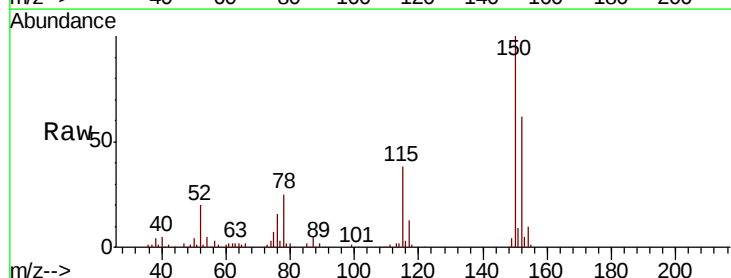
Tgt Ion:152 Resp: 81776

Ion Ratio Lower Upper

152 100

115 60.4 29.1 87.3

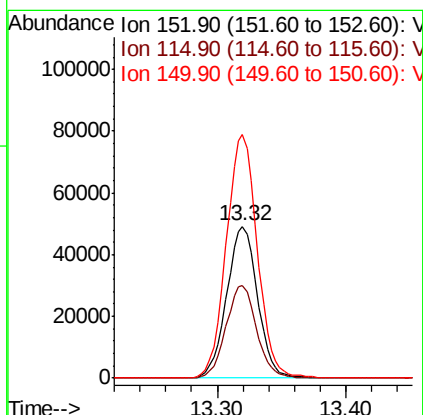
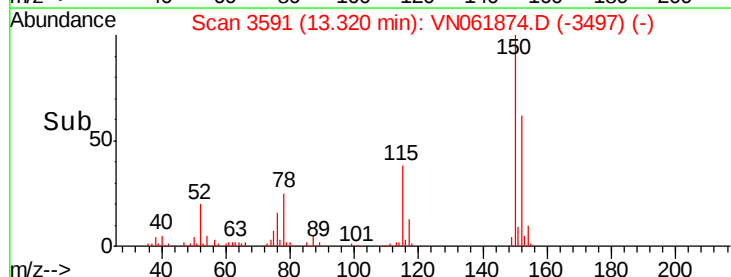
150 161.4 0.0 347.6

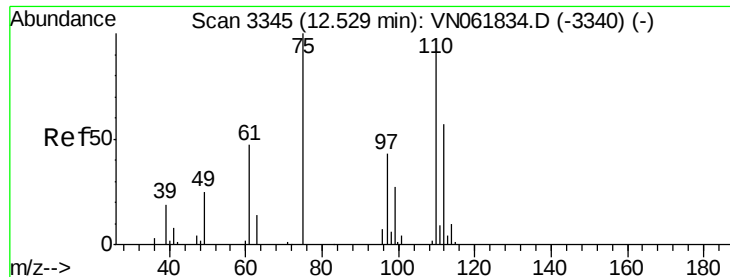


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.536 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

Instrument :

MSVOA_N

ClientSampleId :

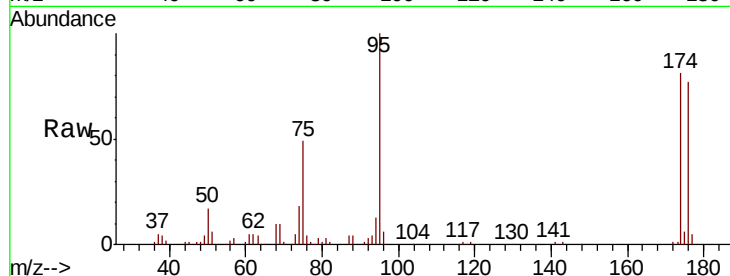
RE126D2-20200611

Tot Ion: 75 Resp: 45814

Ion Ratio Lower Upper

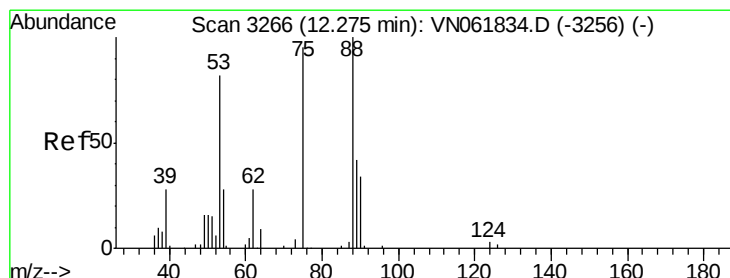
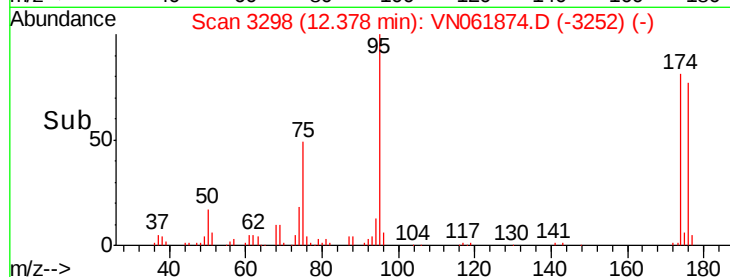
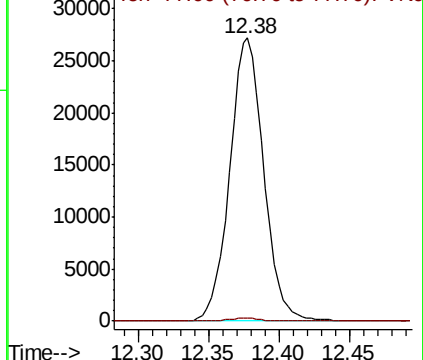
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 77.830 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061874.D

Acq: 18 Jun 2020 2:17

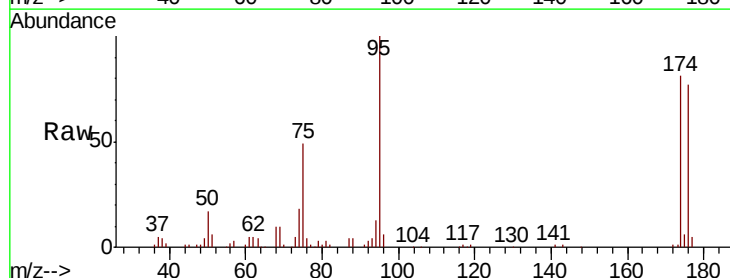
Tgt Ion: 75 Resp: 45814

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

