

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061784.D
 Acq On : 12 Jun 2020 12:30
 Operator : JC/MD
 Sample : L2988-05DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

Quant Time: Jun 13 05:10:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	301193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	506074	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	490426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	212757	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	167424	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
35) Dibromofluoromethane	7.55	113	144227	56.18	ug/l	0.00
Spiked Amount			Recovery	=	112.36%	
50) Toluene-d8	10.06	98	607994	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	12.38	95	206642	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	

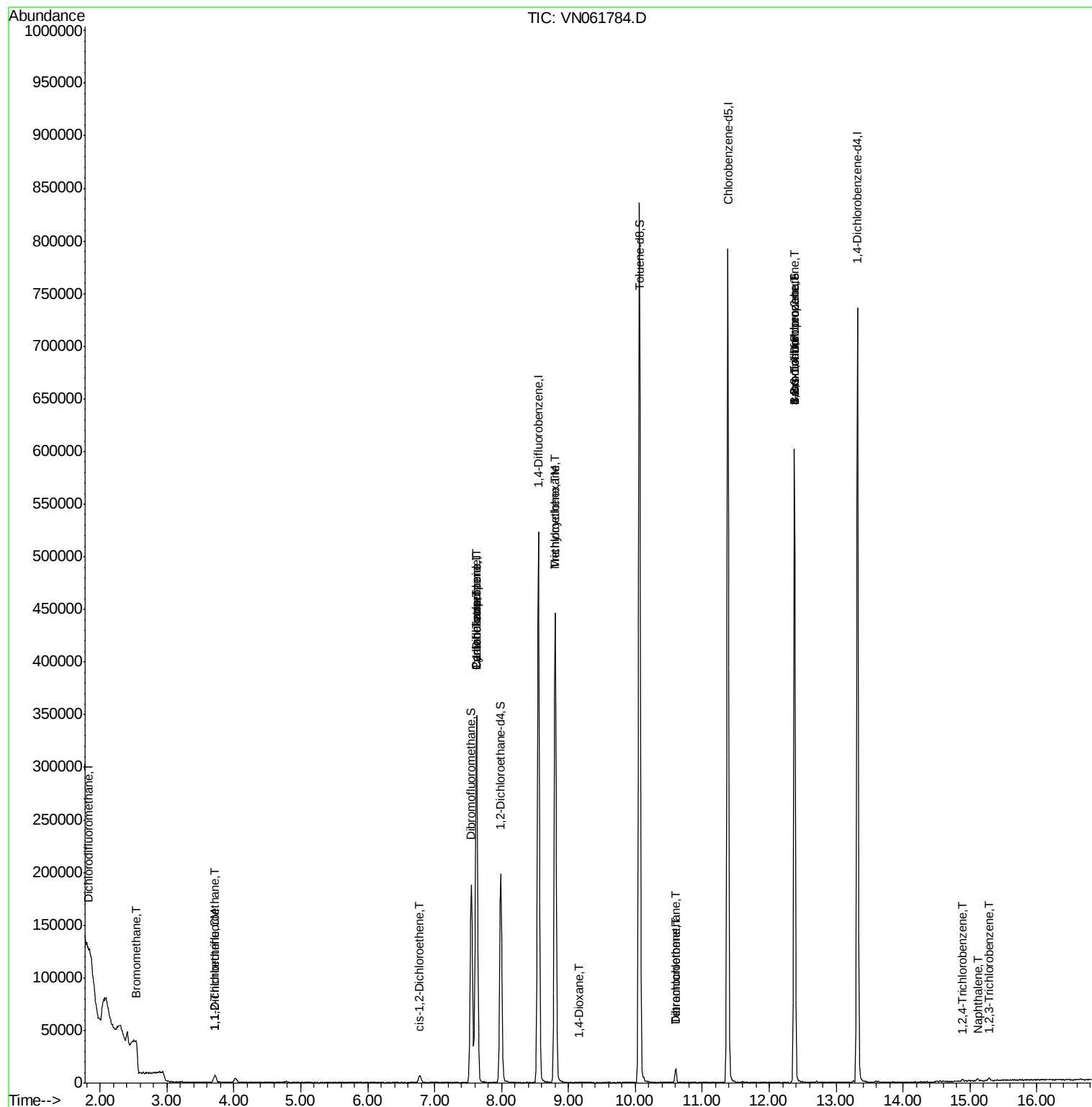
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	301	1.233	ug/l #	43
5) Bromomethane	2.55	94	858	0.297	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.71	101	2527	0.877	ug/l #	44
12) 1,1-Dichloroethene	3.70	96	788	0.256	ug/l #	77
16) Acetone	3.78	43	647	Below Cal		93
20) Methylene Chloride	4.51	84	61	Below Cal	#	1
27) cis-1,2-Dichloroethene	6.79	96	1160	0.295	ug/l	57
31) Cyclohexane	7.63	56	5303	1.049	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	19350	4.319	ug/l #	49
38) Carbon Tetrachloride	7.63	117	27695	6.409	ug/l #	17
39) Methylcyclohexane	8.81	83	2055	0.372	ug/l #	1
44) Trichloroethene	8.80	130	177838	41.862	ug/l	95
49) 1,4-Dioxane	9.17	88	159	3.514	ug/l #	80
60) Dibromochloromethane	10.61	129	2889	0.707	ug/l #	11
64) Tetrachloroethene	10.61	164	3276	0.710	ug/l	95
71) Bromoform	12.38	173	2025	0.692	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	98724	25.518	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	98724	65.257	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.89	180	1027	0.262	ug/l #	89
95) Naphthalene	15.11	128	3752	0.314	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.28	180	1034	0.268	ug/l #	20

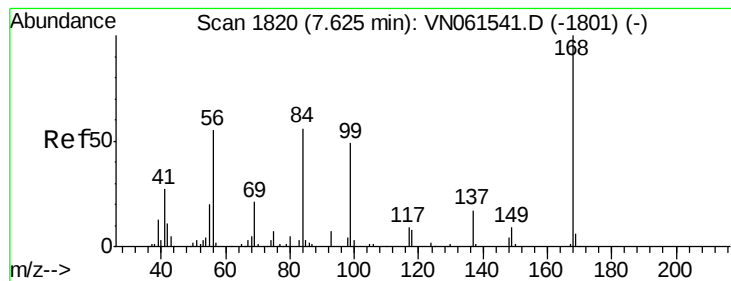
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 02:14:10 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: VN061784.D

Acq: 12 Jun 2020 12:30

Instrument :

MSVOA_N

ClientSampleId :

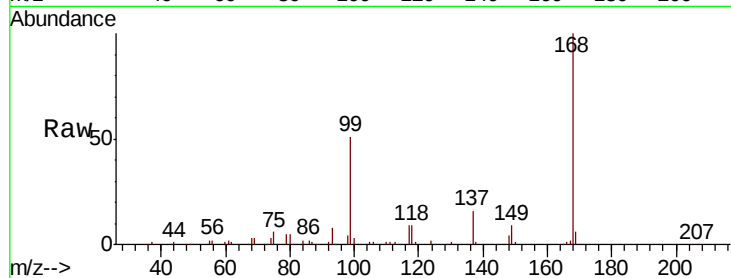
RE132D4-20200608DL

Tot Ion:168 Resp: 301193

Ion Ratio Lower Upper

168 100

99 51.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061784.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061784.D (-1727) (-)

7.63

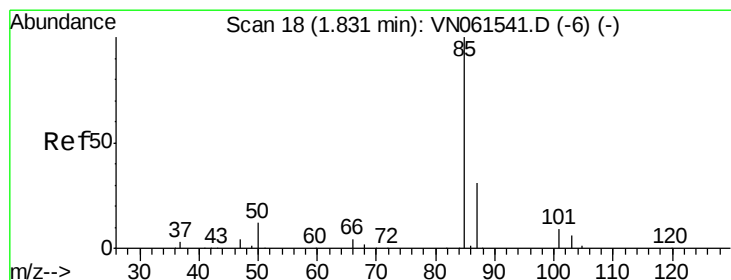
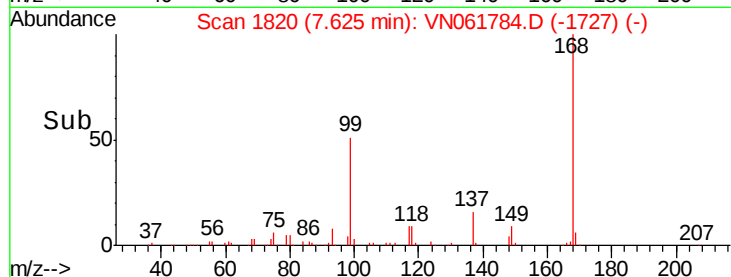
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.233 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061784.D

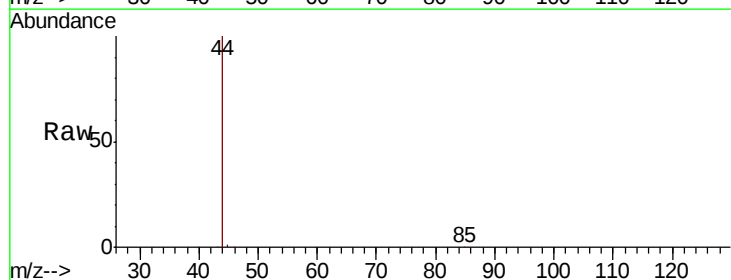
Acq: 12 Jun 2020 12:30

Tgt Ion: 85 Resp: 301

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VN061784.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN061784.D (-1) (-)

1.83

300

250

200

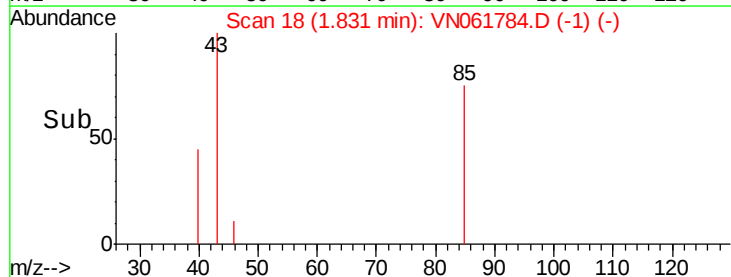
150

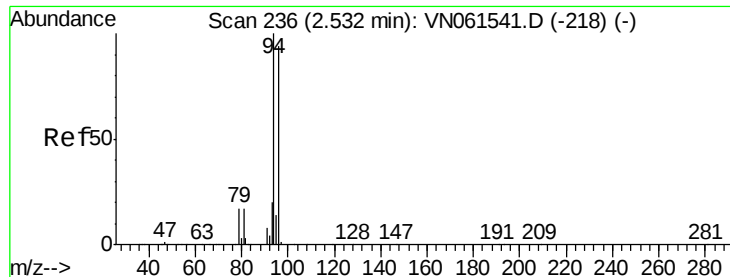
100

50

0

Time--> 1.80 1.82 1.84





#5

Bromomethane

Concen: 0.297 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

Instrument :

MSVOA_N

ClientSampleId :

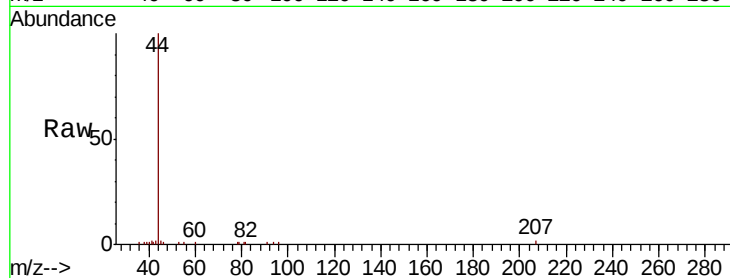
RE132D4-20200608DL

Tot Ion: 94 Resp: 858

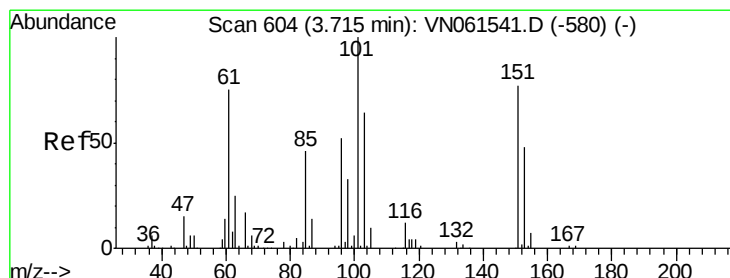
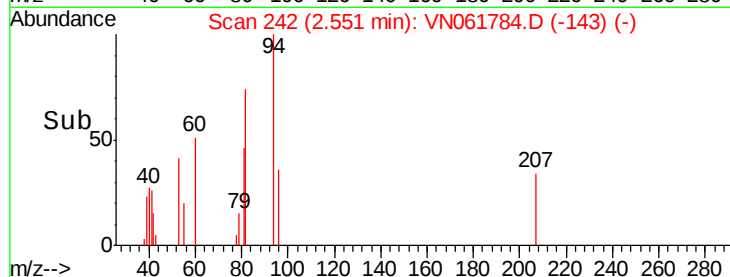
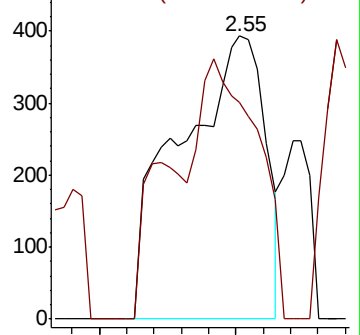
Ion Ratio Lower Upper

94 100

96 76.8 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VN0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.877 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

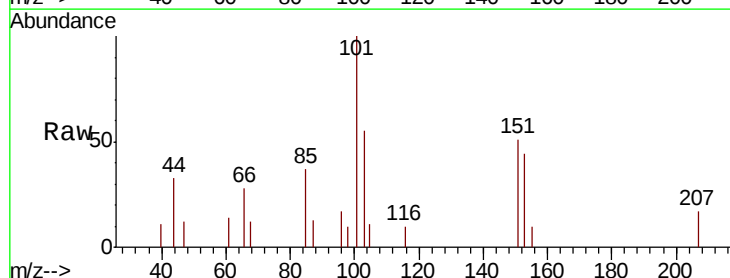
Tgt Ion: 101 Resp: 2527

Ion Ratio Lower Upper

101 100

85 11.6 35.2 52.8#

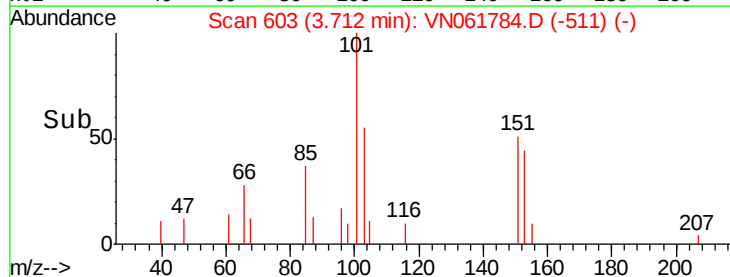
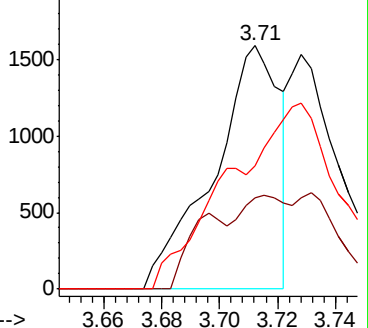
151 127.8 61.0 91.6#

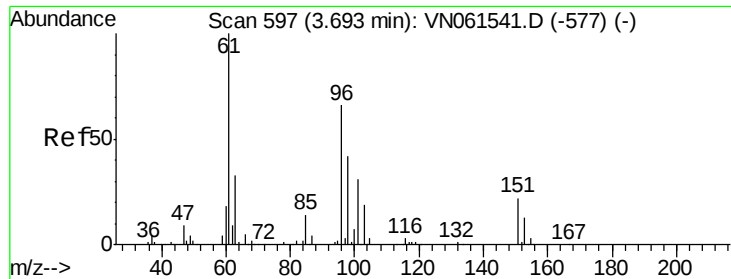


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

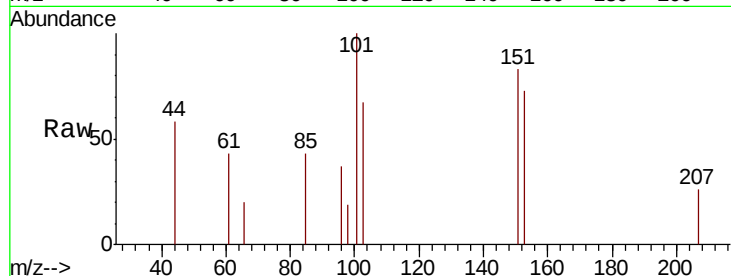




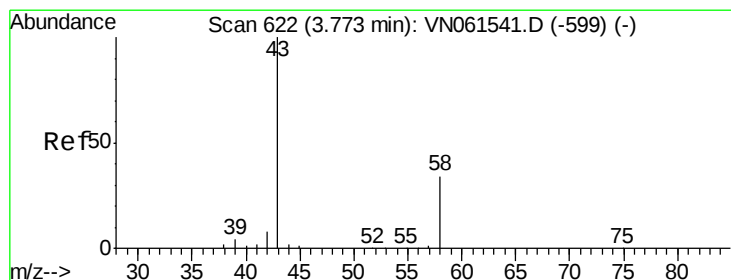
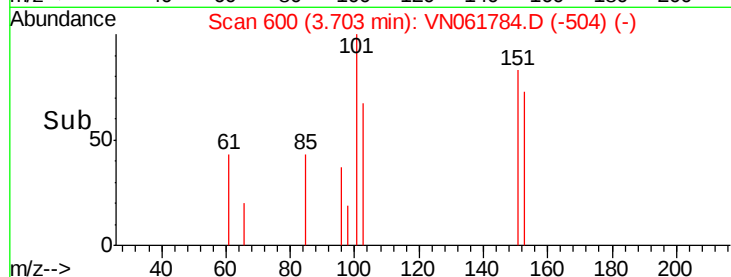
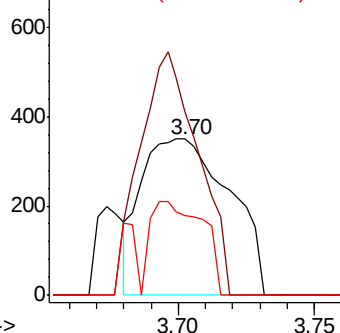
#12
 1,1-Dichloroethene
 Concen: 0.256 ug/l
 RT: 3.70 min Scan# 600
 Delta R.T. 0.01 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

Tot Ion: 96 Resp: 788
 Ion Ratio Lower Upper
 96 100
 61 117.1 120.5 180.7#
 98 51.4 50.8 76.2

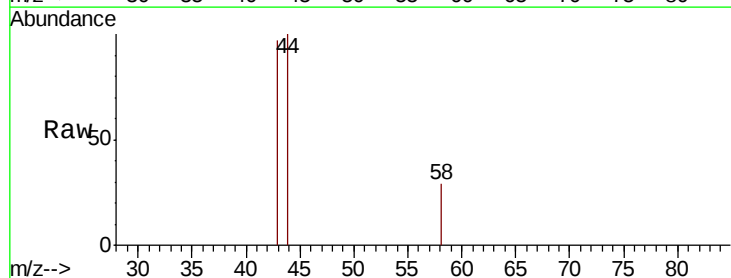


Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO

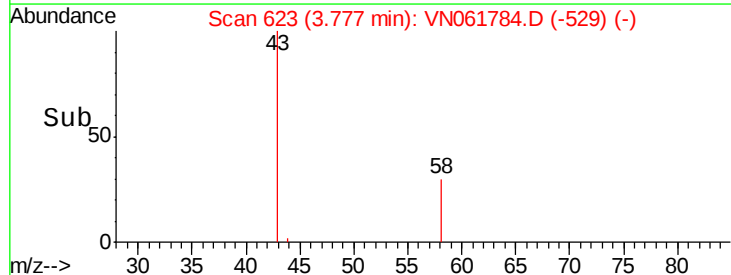
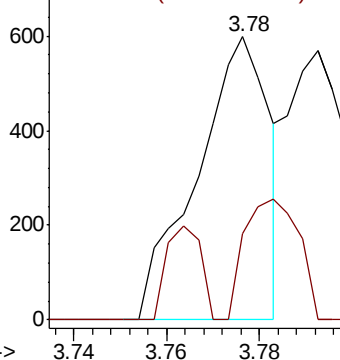


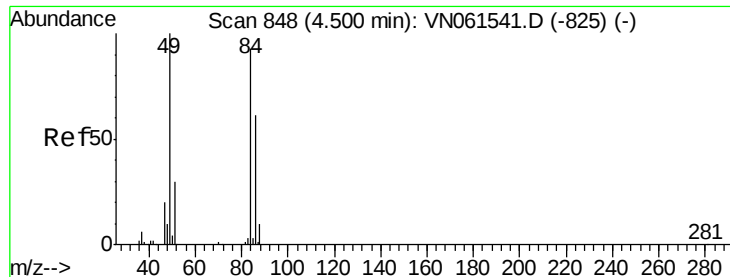
#16
 Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Tgt Ion: 43 Resp: 647
 Ion Ratio Lower Upper
 43 100
 58 30.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

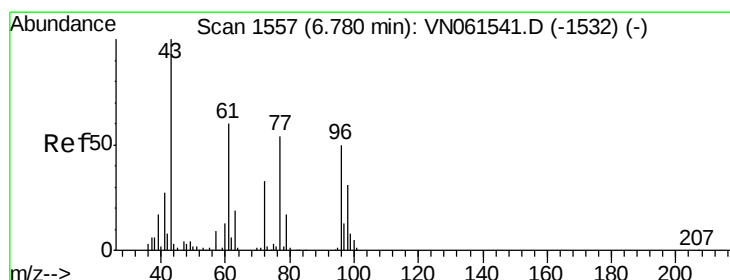
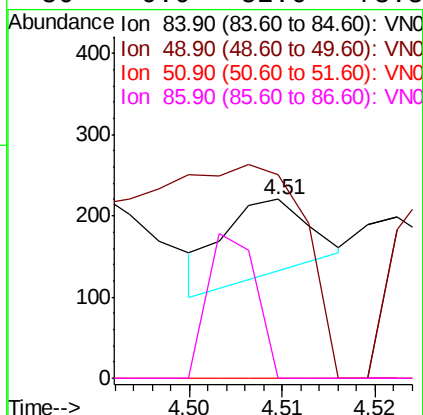
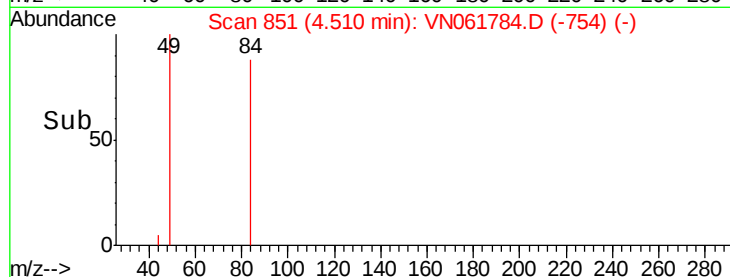
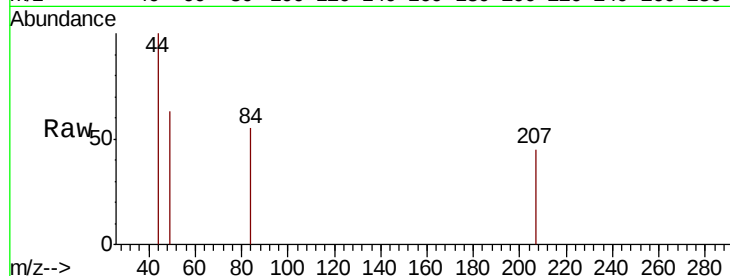




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

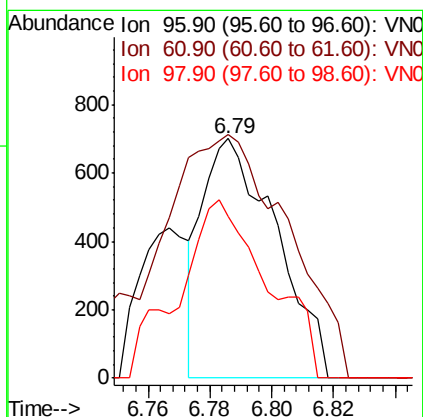
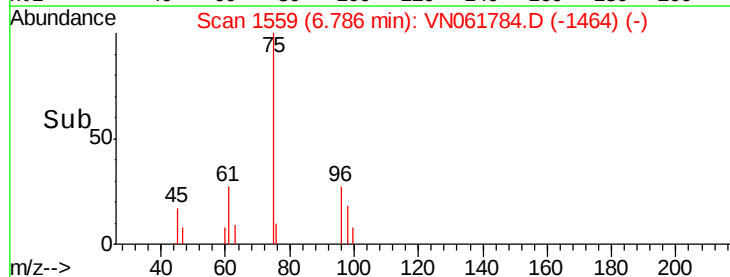
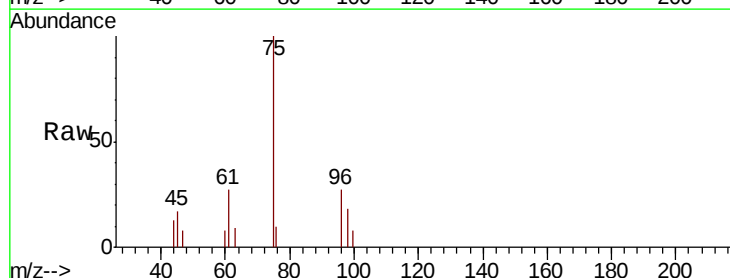
Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20200608DL

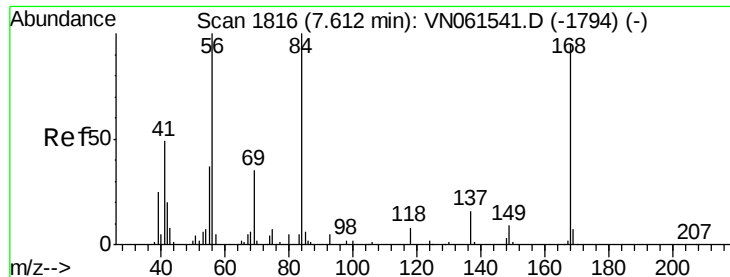
Tot Ion: 84 Resp: 61
Ion Ratio Lower Upper
84 100
49 386.2 85.8 128.8#
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#



#27
cis-1,2-Dichloroethene
Concen: 0.295 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.01 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Tgt Ion: 96 Resp: 1160
Ion Ratio Lower Upper
96 100
61 180.9 0.0 252.2
98 90.1 0.0 129.2

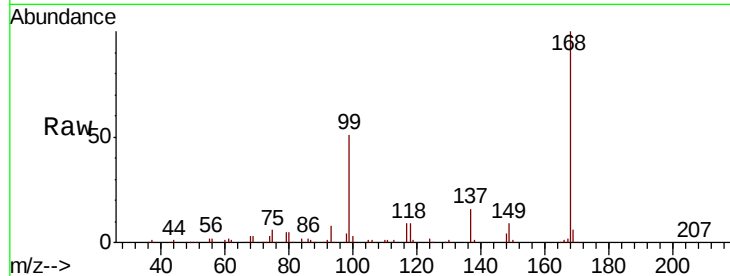




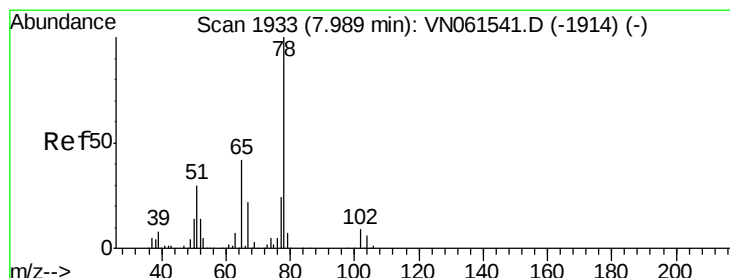
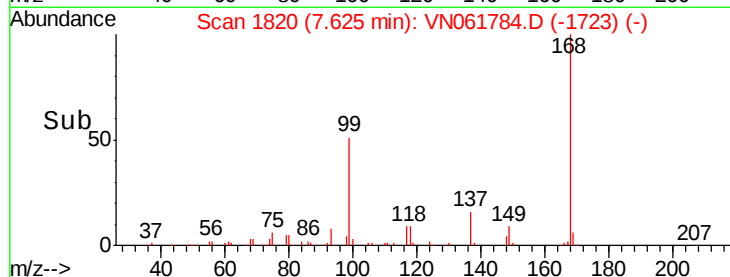
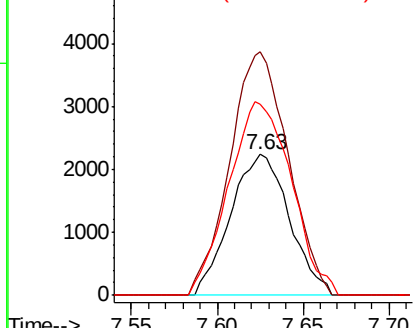
#31
Cyclohexane
Concen: 1.049 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20200608DL

Tot Ion: 56 Resp: 5303
Ion Ratio Lower Upper
56 100
69 173.1 27.8 41.8#
84 135.8 79.9 119.9#

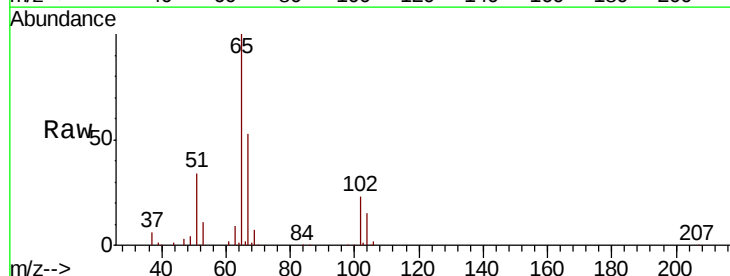


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

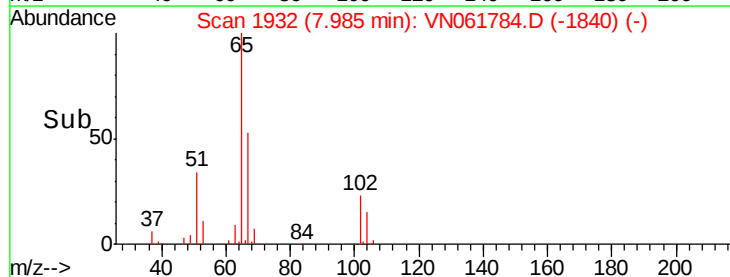
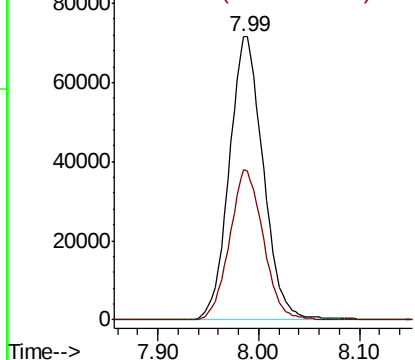


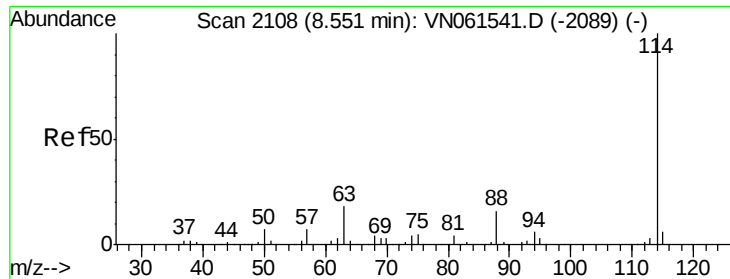
#33
1,2-Dichloroethane-d4
Concen: 46.655 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Tgt Ion: 65 Resp: 167424
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.8



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

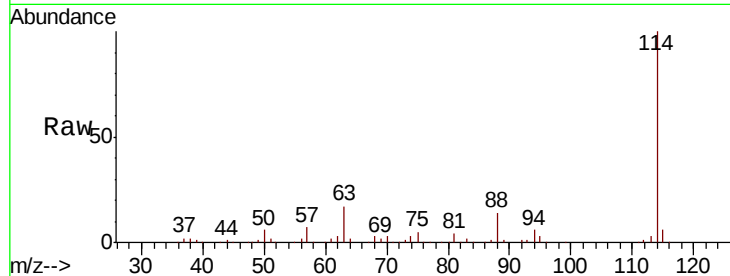




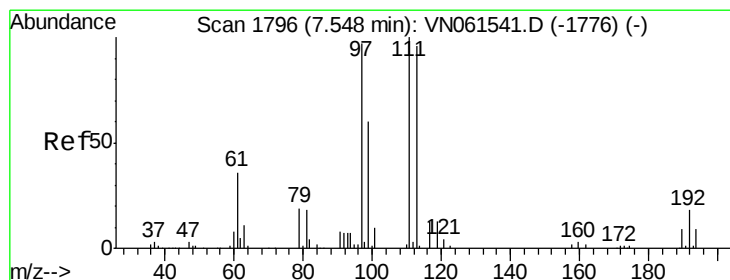
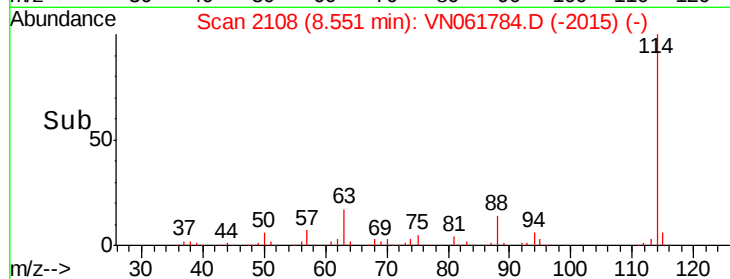
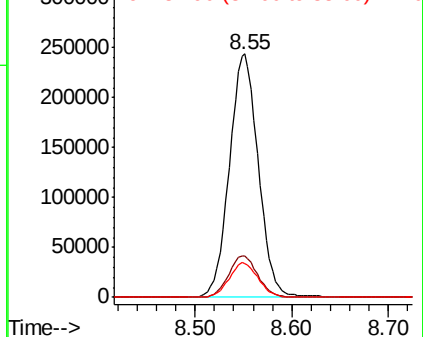
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. 0.00 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20200608DL

Tot Ion:114 Resp: 506074
Ion Ratio Lower Upper
114 100
63 16.9 0.0 35.8
88 14.1 0.0 31.0

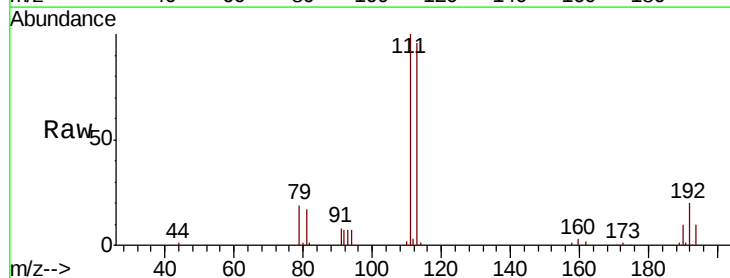


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

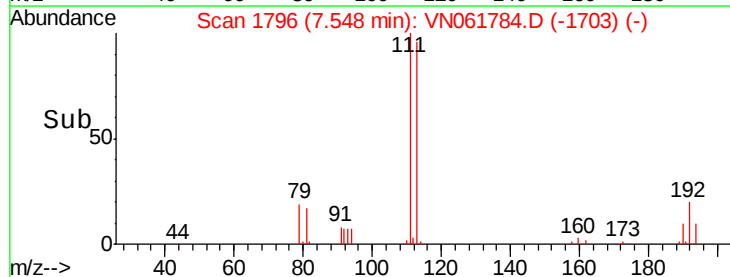
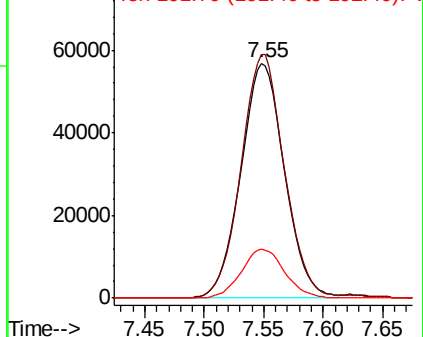


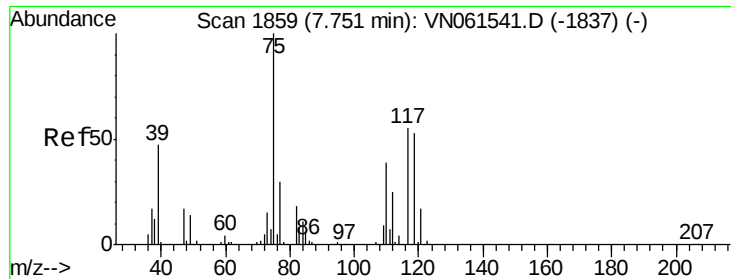
#35
Dibromofluoromethane
Concen: 56.180 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Tgt Ion:113 Resp: 144227
Ion Ratio Lower Upper
113 100
111 103.6 83.4 125.0
192 20.6 15.4 23.2



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

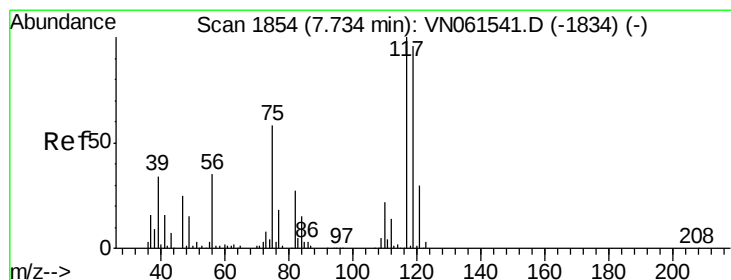
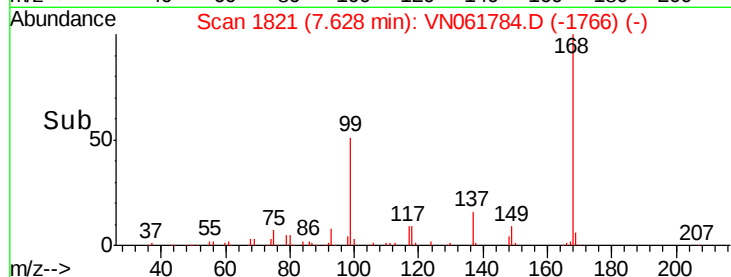
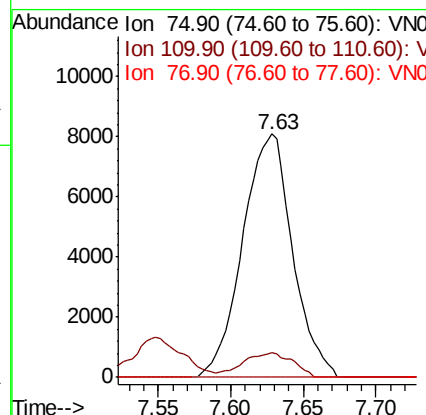
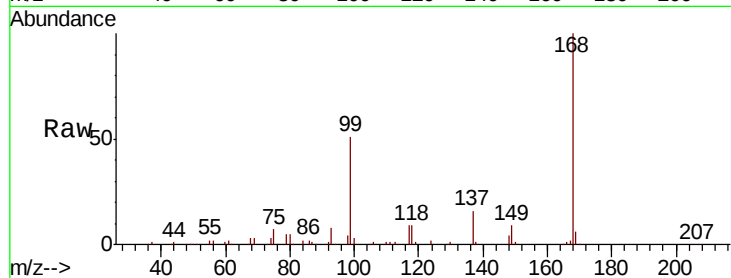




#36
 1,1-Dichloropropene
 Concen: 4.319 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

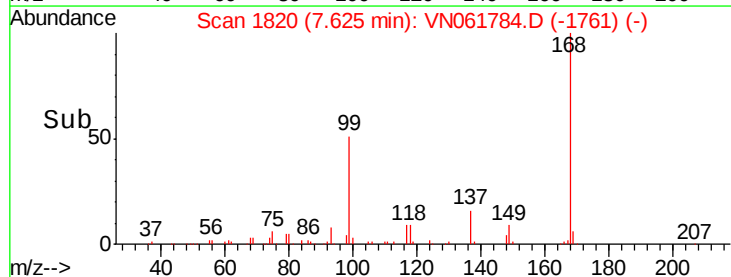
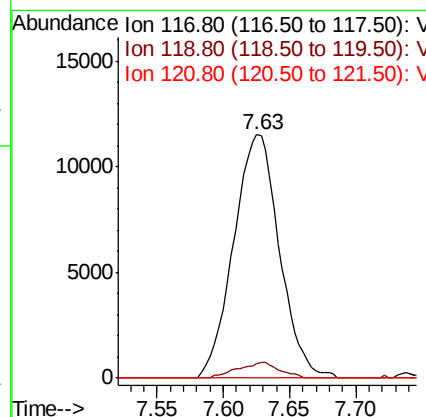
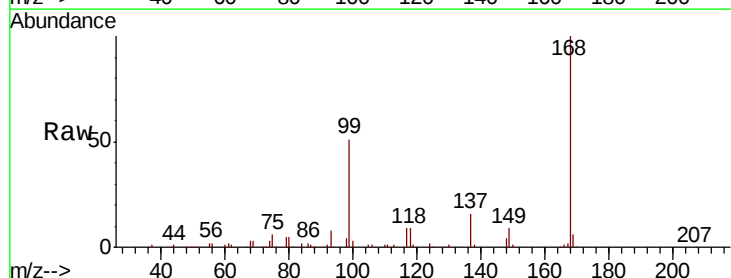
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

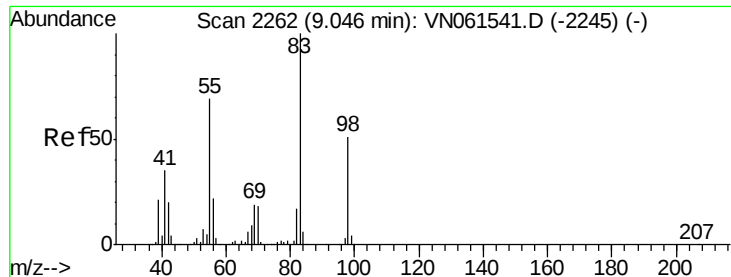
Tot Ion: 75 Resp: 19350
 Ion Ratio Lower Upper
 75 100
 110 10.2 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.409 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Tgt Ion: 117 Resp: 27695
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.5 114.7#
 121 0.0 24.1 36.1#

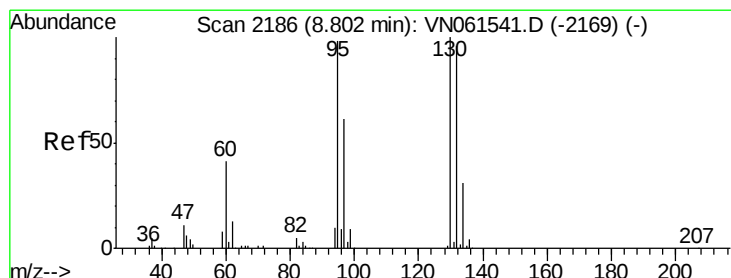
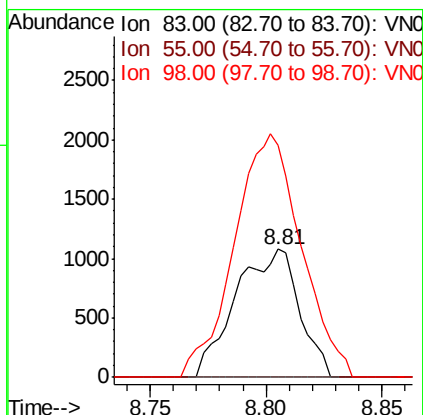
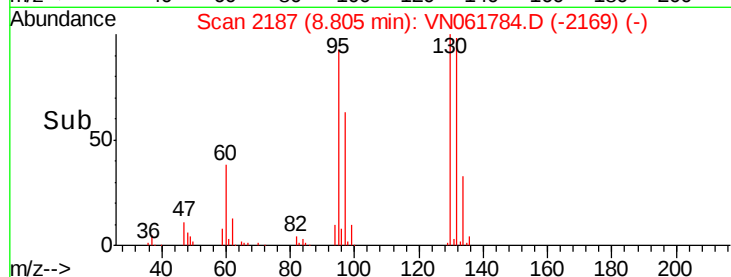
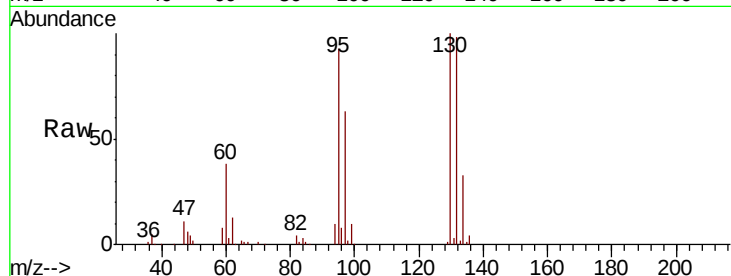




#39
Methvlcvclohexane
Concen: 0.372 ug/l
RT: 8.81 min Scan# 2187
Delta R.T. -0.24 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

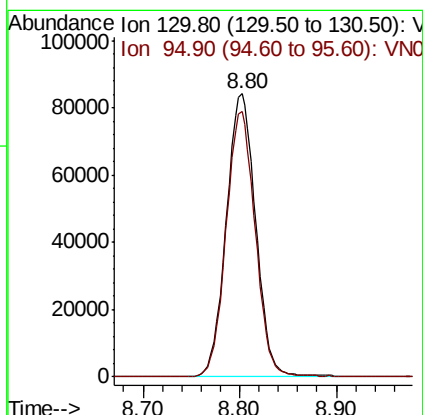
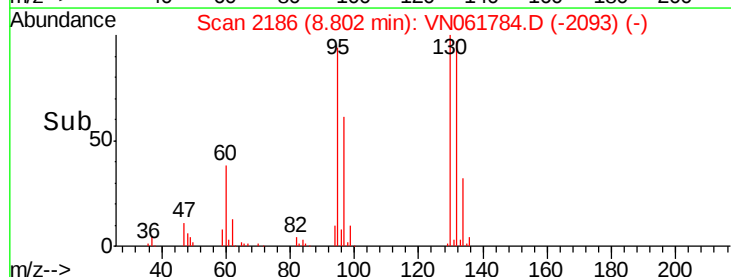
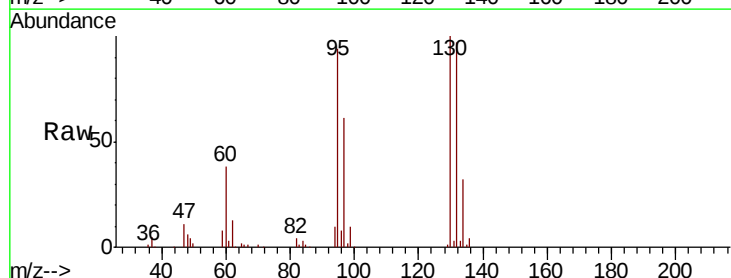
Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20200608DL

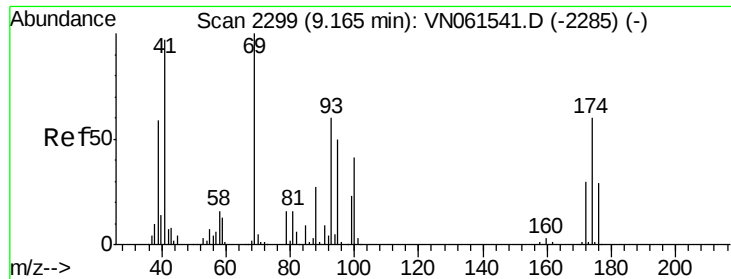
Tot Ion: 83 Resp: 2055
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 167.5 41.0 61.4#



#44
Trichloroethene
Concen: 41.862 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Tgt Ion:130 Resp: 177838
Ion Ratio Lower Upper
130 100
95 93.8 0.0 196.6

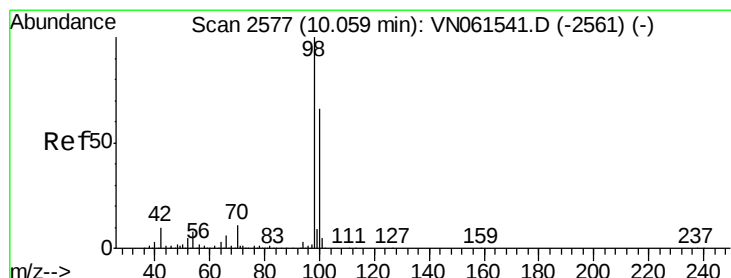
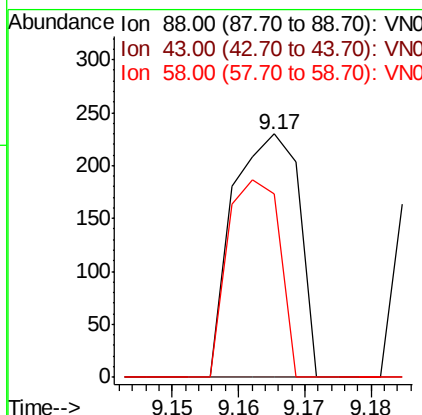
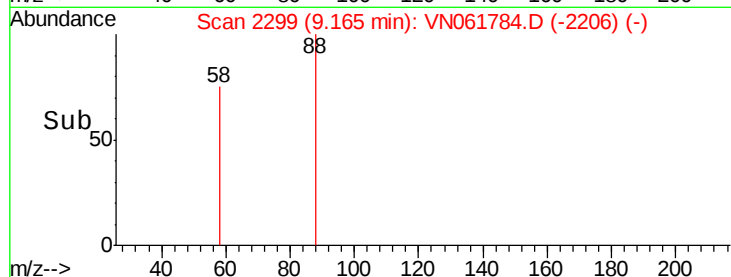
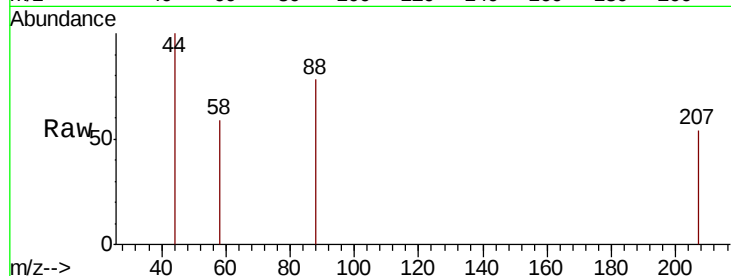




#49
 1,4-Dioxane
 Concen: 3.514 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. 0.00 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

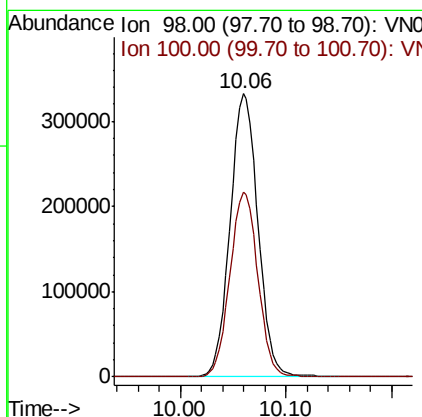
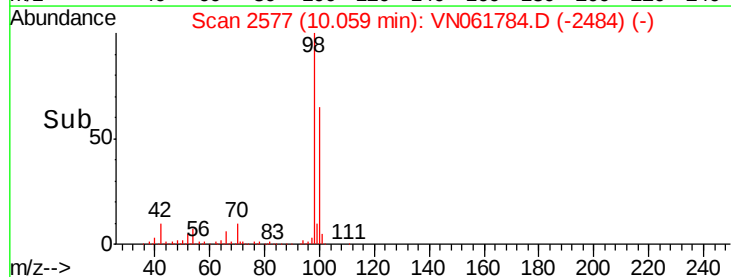
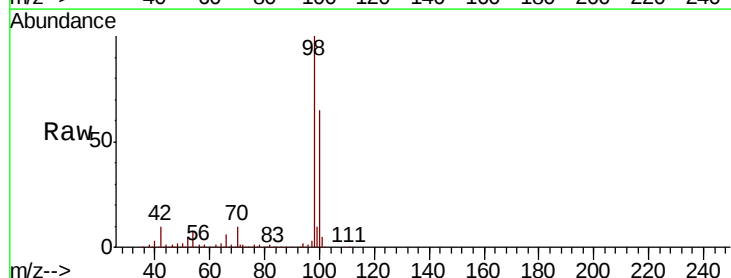
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

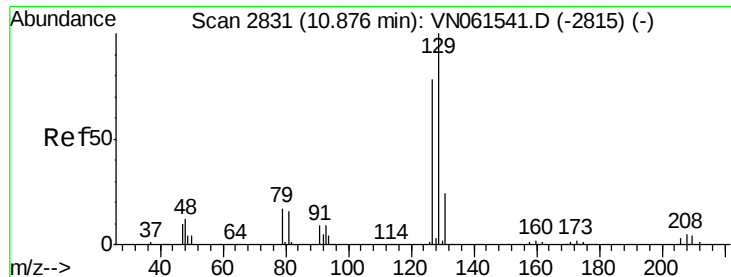
Tot Ion: 88 Resp: 159
 Ion Ratio Lower Upper
 88 100
 43 0.0 23.1 34.7#
 58 63.5 48.3 72.5



#50
 Toluene-d8
 Concen: 51.106 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. 0.00 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Tgt Ion: 98 Resp: 607994
 Ion Ratio Lower Upper
 98 100
 100 65.3 52.8 79.2

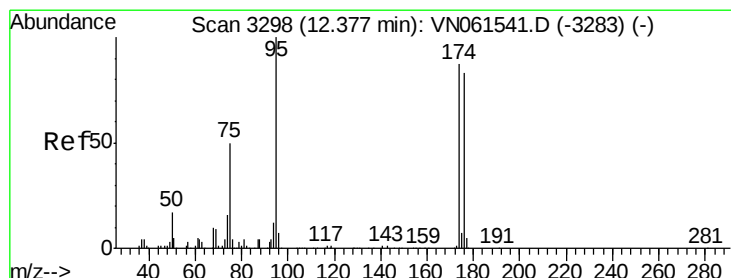
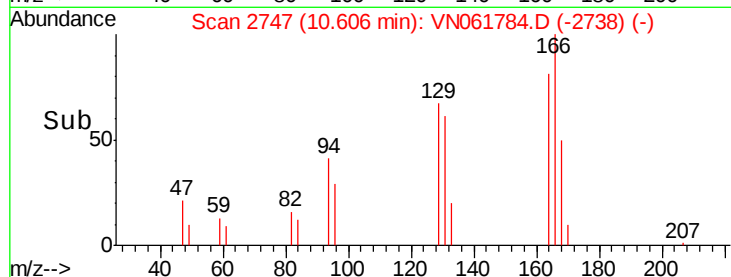
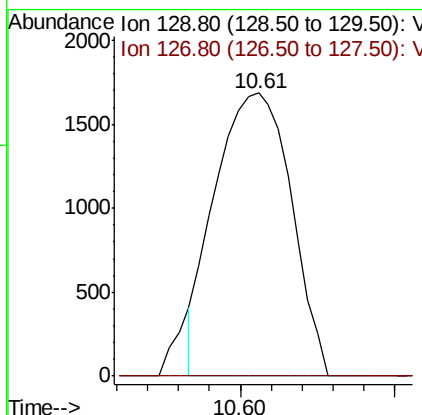
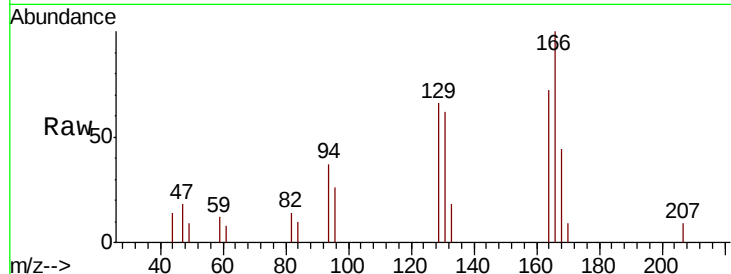




#60
Dibromochloromethane
Concen: 0.707 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. -0.27 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

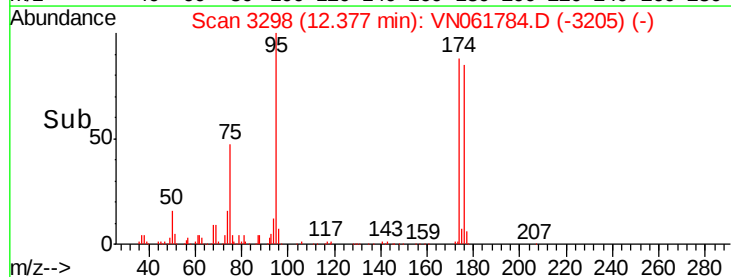
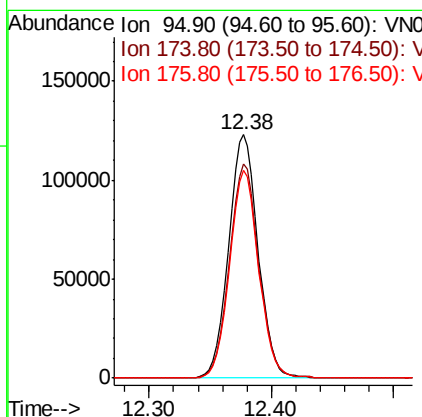
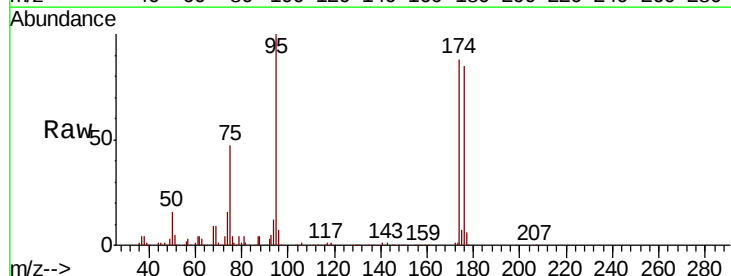
Instrument :
MSVOA_N
ClientSampleId :
RE132D4-20200608DL

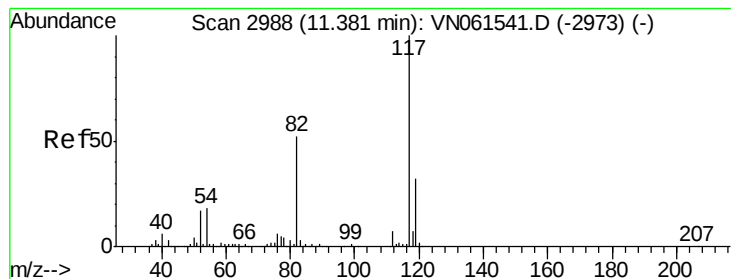
Tot Ion:129 Resp: 2889
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#



#62
4-Bromofluorobenzene
Concen: 47.609 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061784.D
Acq: 12 Jun 2020 12:30

Tgt Ion: 95 Resp: 206642
Ion Ratio Lower Upper
95 100
174 87.9 0.0 172.8
176 84.5 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20200608DL

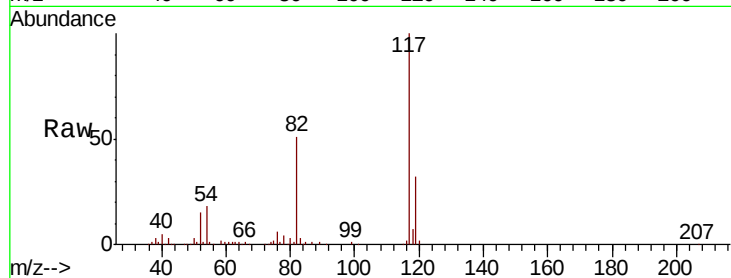
Tot Ion:117 Resp: 490426

Ion Ratio Lower Upper

117 100

82 50.5 41.5 62.3

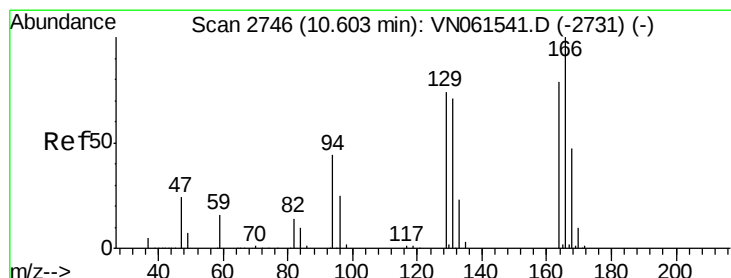
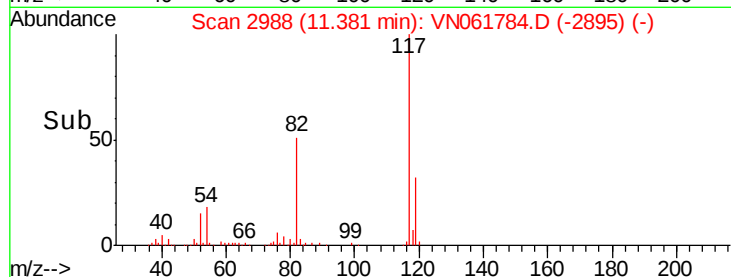
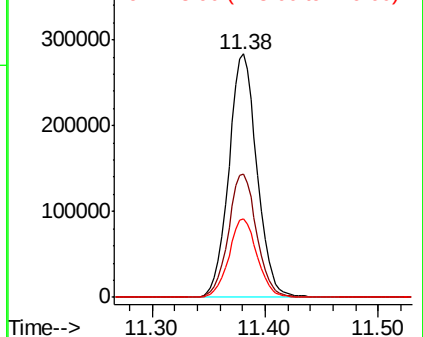
119 32.3 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.710 ug/l

RT: 10.61 min Scan# 2748

Delta R.T. 0.01 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

Tgt Ion:164 Resp: 3276

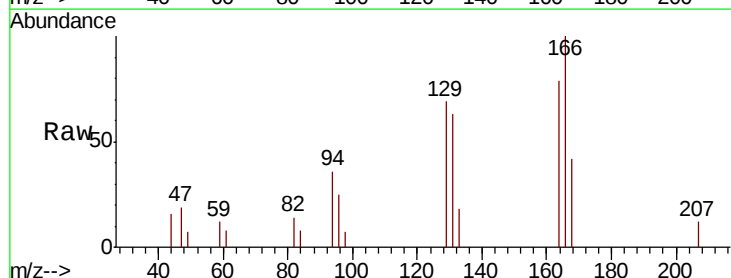
Ion Ratio Lower Upper

164 100

166 126.7 101.5 152.3

129 87.4 74.9 112.3

131 79.9 72.2 108.2

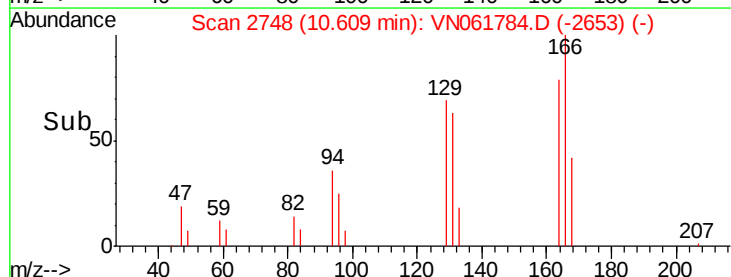
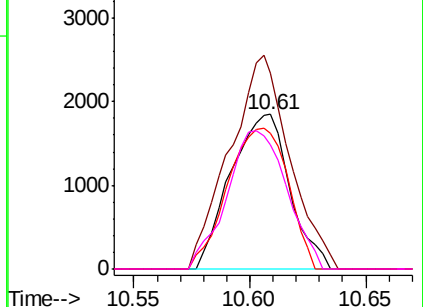


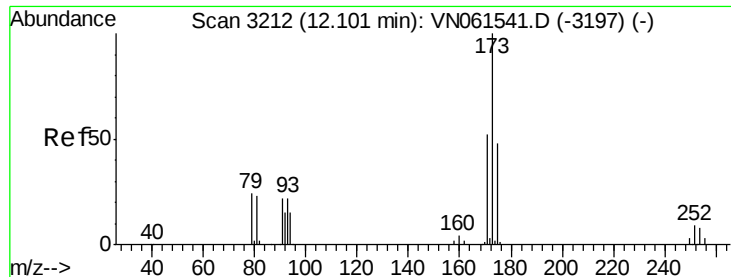
Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.692 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

Instrument :

MSVOA_N

ClientSampleId :

RE132D4-20200608DL

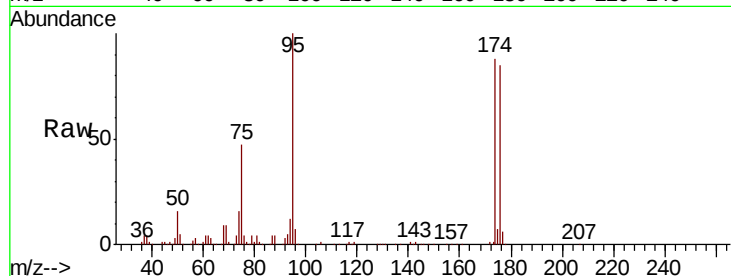
Tot Ion:173 Resp: 2025

Ion Ratio Lower Upper

173 100

175 557.6 24.4 73.2#

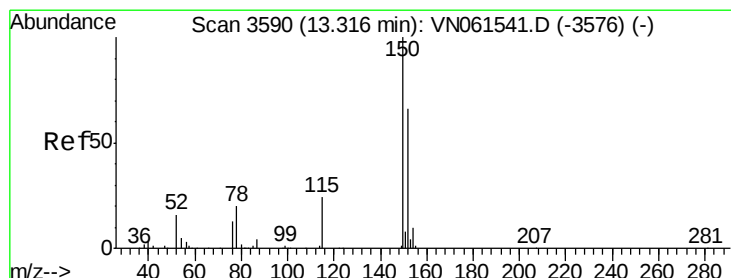
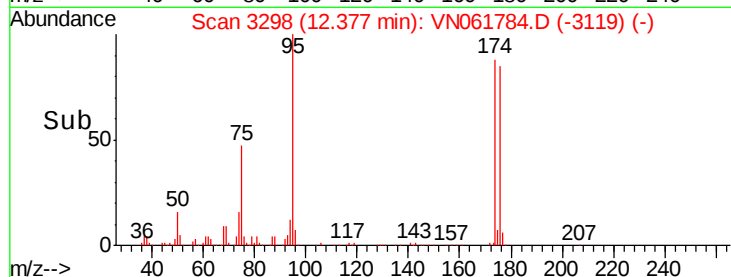
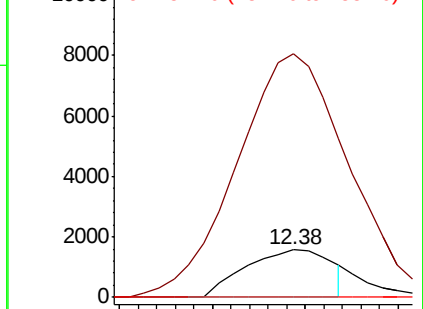
254 0.0 0.0 0.0



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: VN061784.D

Acq: 12 Jun 2020 12:30

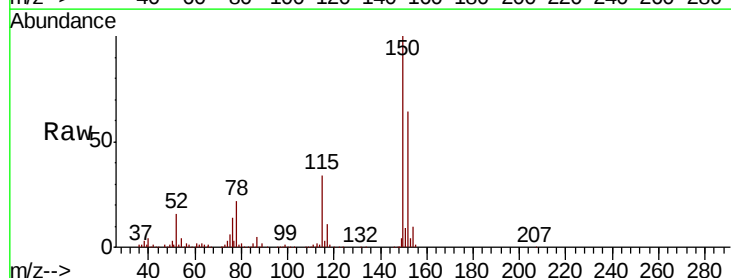
Tgt Ion:152 Resp: 212757

Ion Ratio Lower Upper

152 100

115 55.3 28.0 84.0

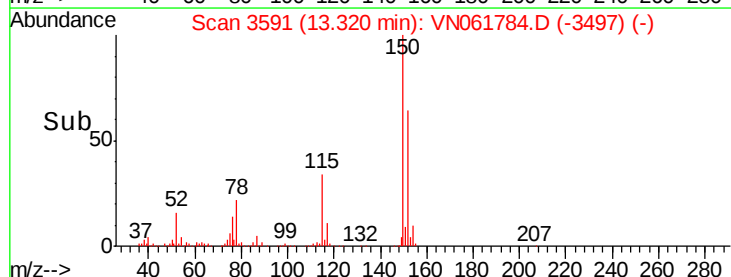
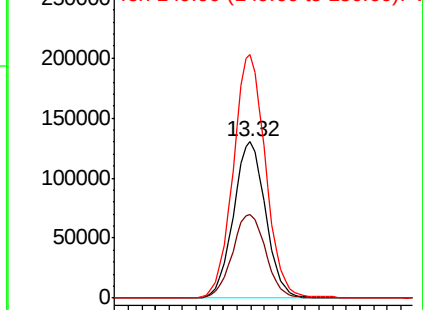
150 157.3 0.0 344.0

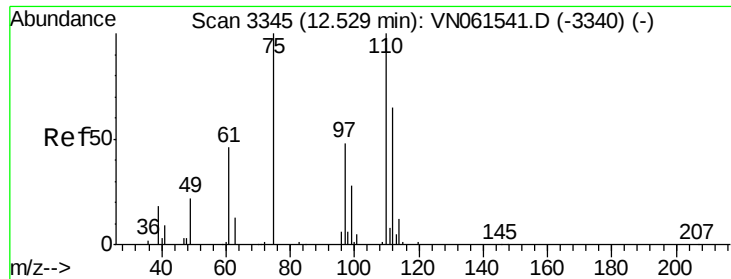


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.518 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

Instrument :

MSVOA_N

ClientSampleId :

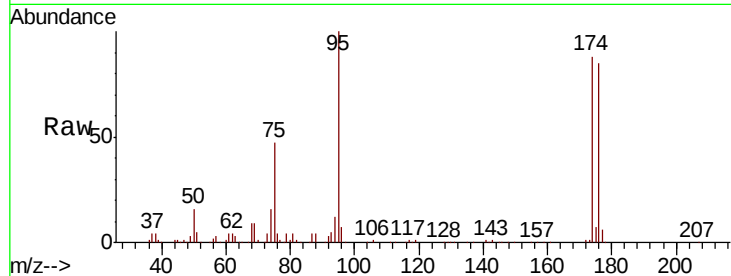
RE132D4-20200608DL

Tot Ion: 75 Resp: 98724

Ion Ratio Lower Upper

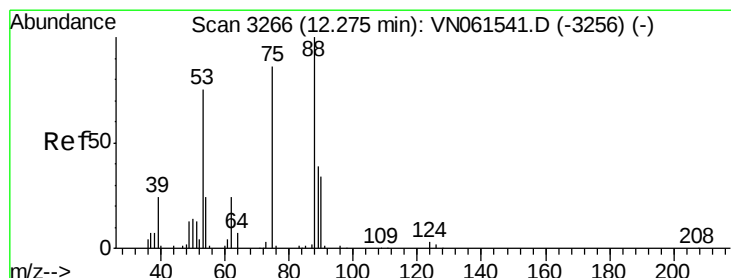
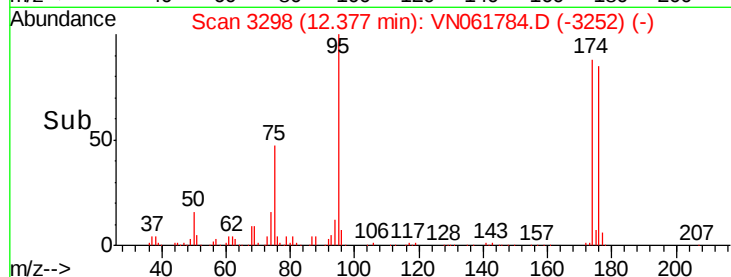
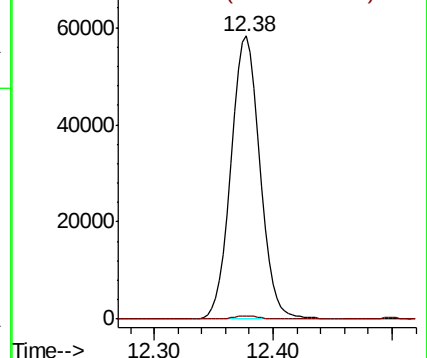
75 100

77 1.1 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: 65.257 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061784.D

Acq: 12 Jun 2020 12:30

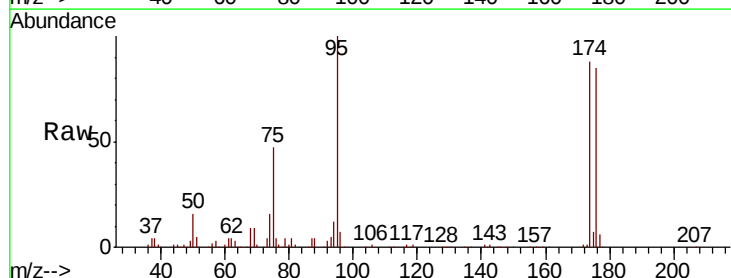
Tgt Ion: 75 Resp: 98724

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

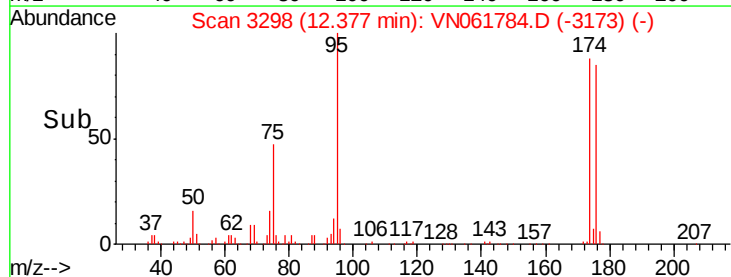
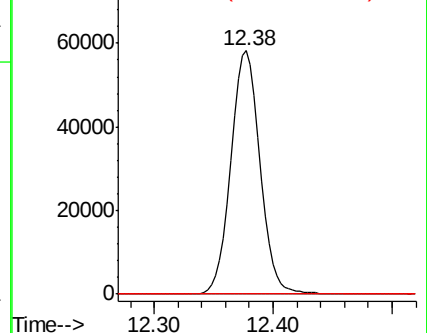
89 0.0 37.1 55.7#

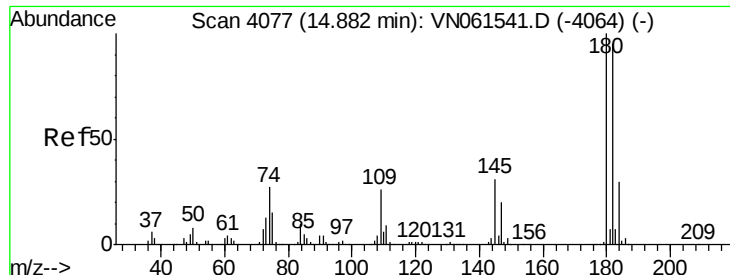


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

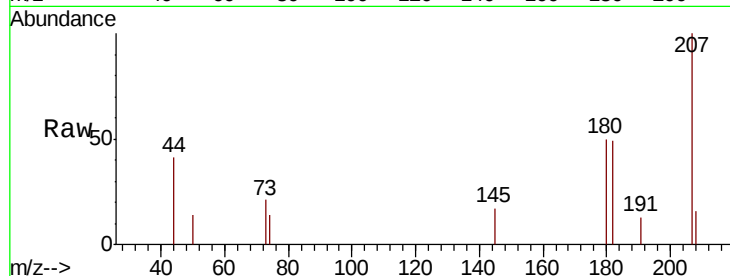




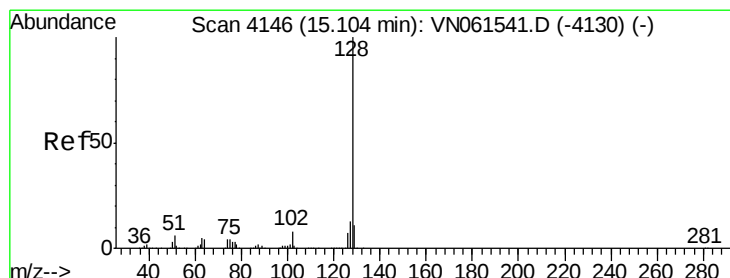
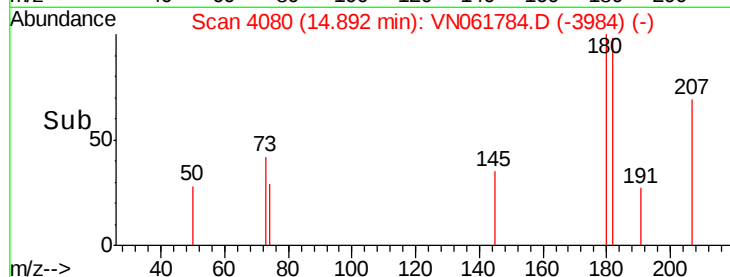
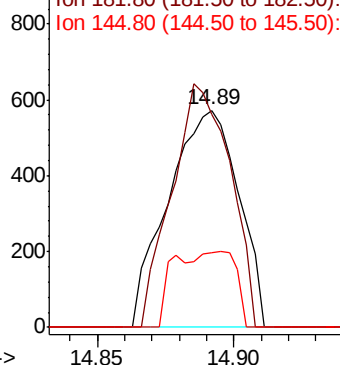
#93
 1,2,4-Trichlorobenzene
 Concen: 0.262 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. 0.01 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

Tot Ion:180 Resp: 1027
 Ion Ratio Lower Upper
 180 100
 182 93.0 47.8 143.3
 145 9.9 15.5 46.5#

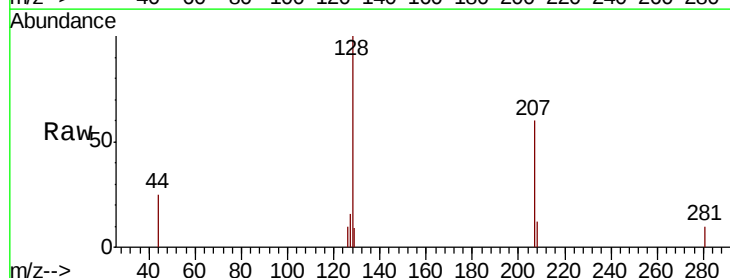


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

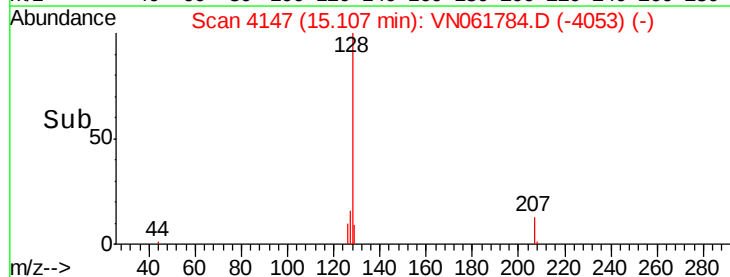
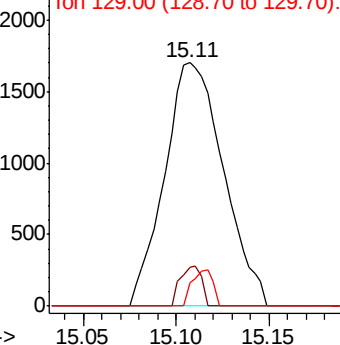


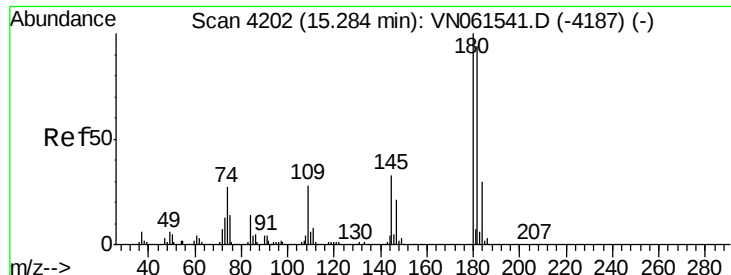
#95
 Naphthalene
 Concen: 0.314 ug/l
 RT: 15.11 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Tgt Ion:128 Resp: 3752
 Ion Ratio Lower Upper
 128 100
 127 5.9 10.0 15.0#
 129 5.3 8.5 12.7#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.268 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. 0.00 min
 Lab File: VN061784.D
 Acq: 12 Jun 2020 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D4-20200608DL

Tot Ion:180 Resp: 1034
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.1 141.3#
 145 15.0 16.3 48.9#

