

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061750.D
 Acq On : 11 Jun 2020 16:27
 Operator : JC/MD
 Sample : L2988-07 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D6-20200608

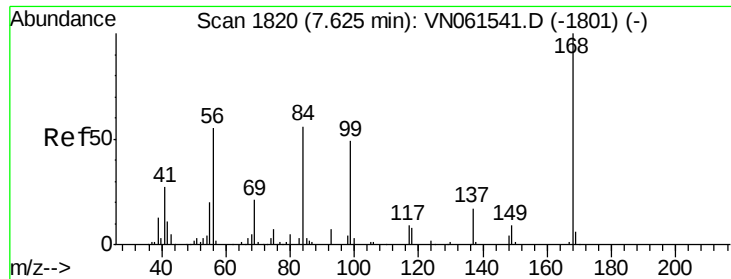
Quant Time: Jun 12 05:12:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	314175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	526196	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	529059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	232239	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	171976	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	
35) Dibromofluoromethane	7.55	113	144509	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	
50) Toluene-d8	10.06	98	636301	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.38	95	224986	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.71	101	5826	1.939	ug/l	95
11) Tert butyl alcohol	4.69	59	1850	3.716	ug/l #	72
12) 1,1-Dichloroethene	3.68	96	2184	0.680	ug/l #	72
16) Acetone	3.77	43	905	Below Cal	#	41
20) Methylene Chloride	4.50	84	1214	Below Cal	#	57
31) Cyclohexane	7.62	56	5685	1.078	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	21020	4.512	ug/l #	48
38) Carbon Tetrachloride	7.62	117	29655	6.600	ug/l #	16
39) Methylcyclohexane	8.80	83	4728	0.823	ug/l #	1
44) Trichloroethene	8.80	130	425162	96.254	ug/l	98
45) 1,2-Dichloropropane	8.80	63	960	0.281	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	2316	0.609	ug/l #	1
60) Dibromochloromethane	10.60	129	1177	0.277	ug/l #	11
64) Tetrachloroethene	10.61	164	1265	0.254	ug/l	92
71) Bromoform	12.37	173	950	0.301	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	108232	25.629	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	108232	65.541	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061750.D

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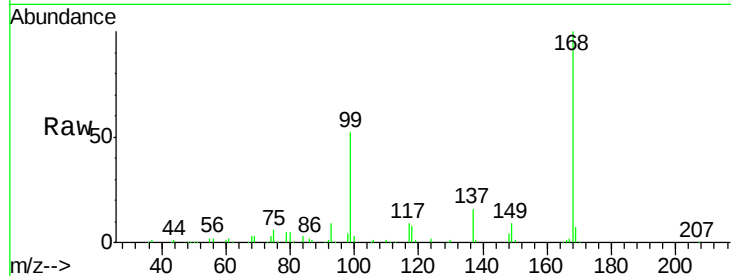
RE132D6-20200608

Tot Ion:168 Resp: 314175

Ion Ratio Lower Upper

168 100

99 51.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

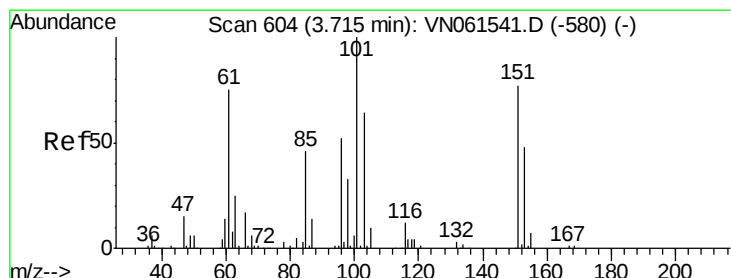
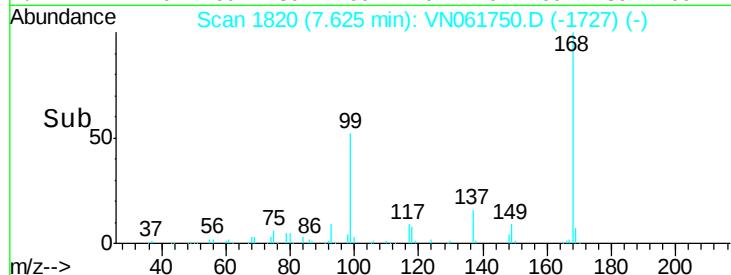
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.939 ug/l

RT: 3.71 min Scan# 601

Delta R.T. -0.01 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

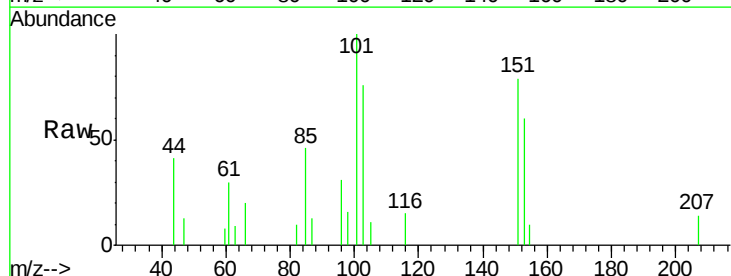
Tgt Ion:101 Resp: 5826

Ion Ratio Lower Upper

101 100

85 41.8 35.2 52.8

151 81.1 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

2500

2000

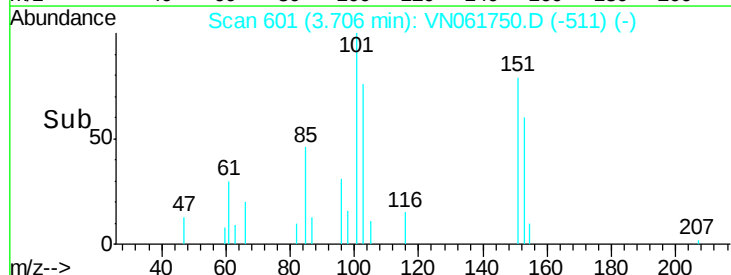
1500

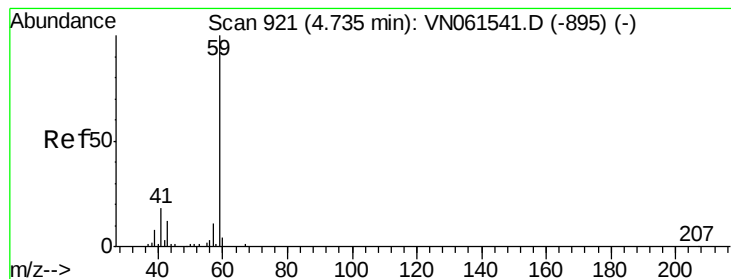
1000

500

0

Time--> 3.65 3.70 3.75 3.80



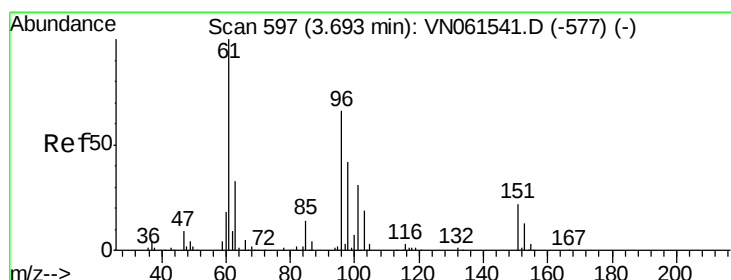
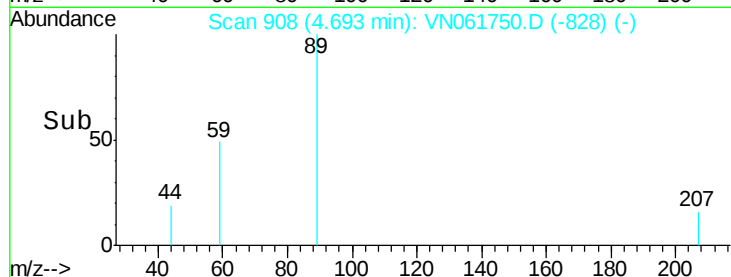
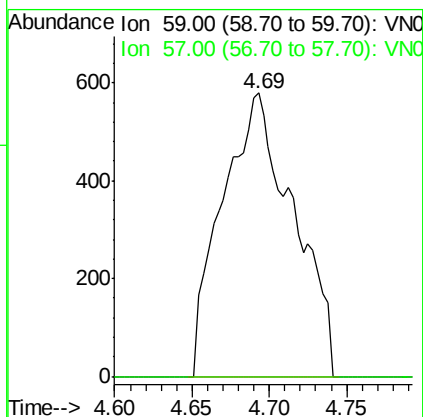
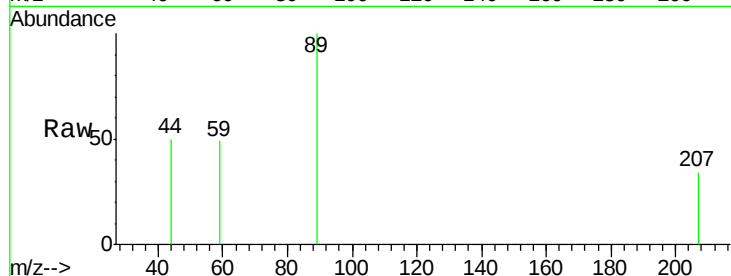


#11

Tert butyl alcohol
Concen: 3.716 ug/l
RT: 4.69 min Scan# 908
Delta R.T. -0.04 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

Instrument :
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ClientSampleId :
RE132D6-20200608

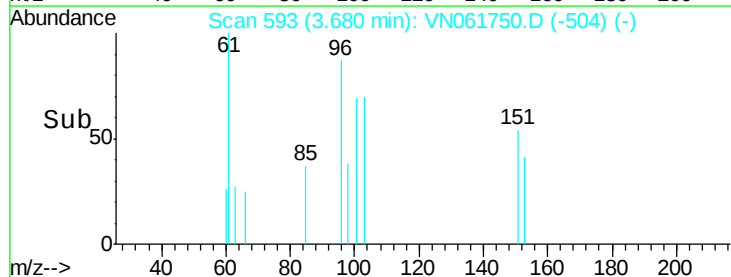
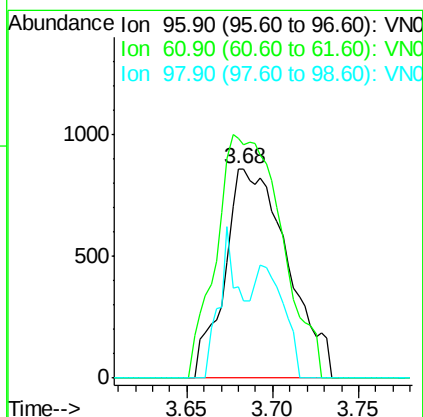
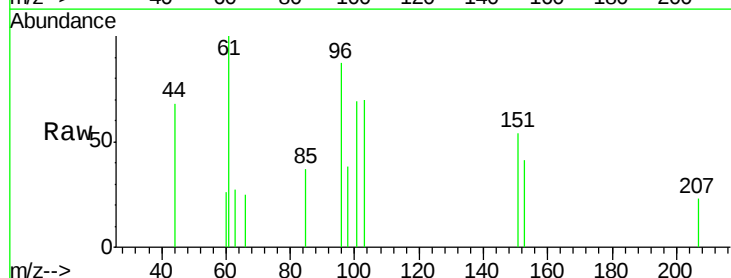
Tot Ion: 59 Resp: 1850
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

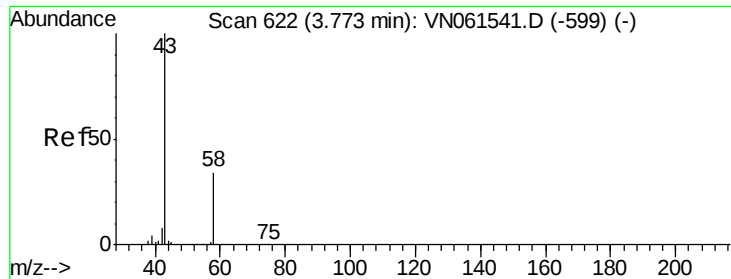


#12

1,1-Dichloroethene
Concen: 0.680 ug/l
RT: 3.68 min Scan# 593
Delta R.T. -0.01 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

Tgt Ion: 96 Resp: 2184
Ion Ratio Lower Upper
96 100
61 114.6 120.5 180.7#
98 43.6 50.8 76.2#

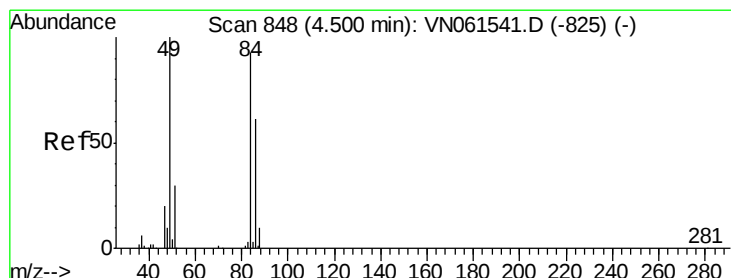
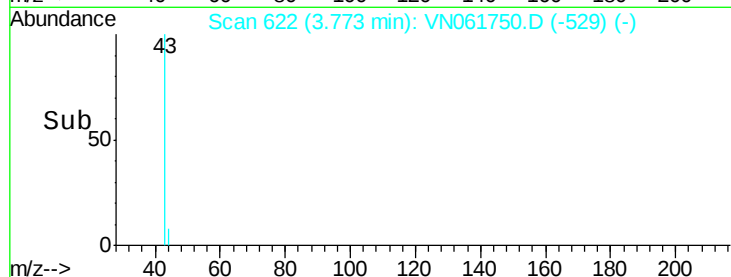
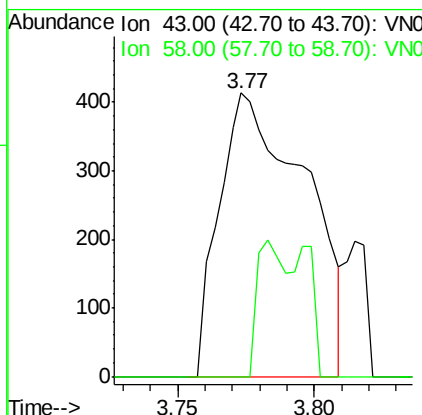
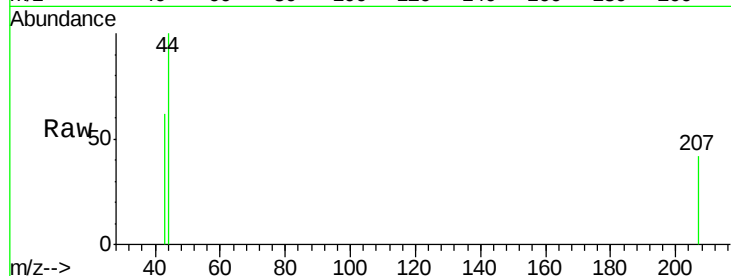




#16
Acetone
Concen: Below Cal
RT: 3.77 min Scan# 622
Delta R.T. 0.00 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

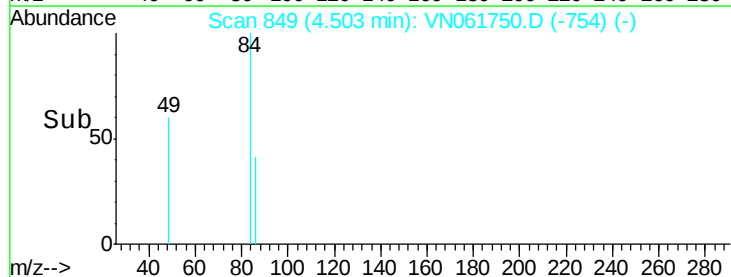
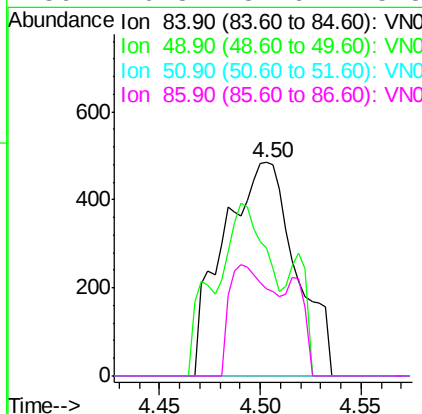
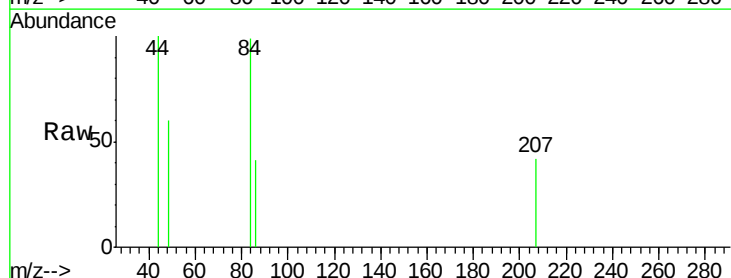
Instrument :
MSVOA_N
ClientSampleId :
RE132D6-20200608

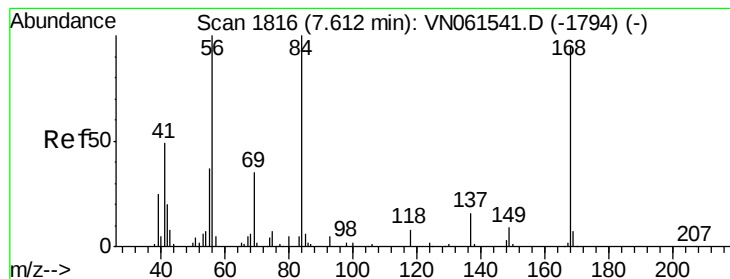
Tot Ion: 43 Resp: 905
Ion Ratio Lower Upper
43 100
58 0.0 27.2 40.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

Tgt Ion: 84 Resp: 1214
Ion Ratio Lower Upper
84 100
49 60.0 85.8 128.8#
51 0.0 26.2 39.2#
86 40.8 52.6 78.8#





#31

Cyclohexane

Concen: 1.078 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

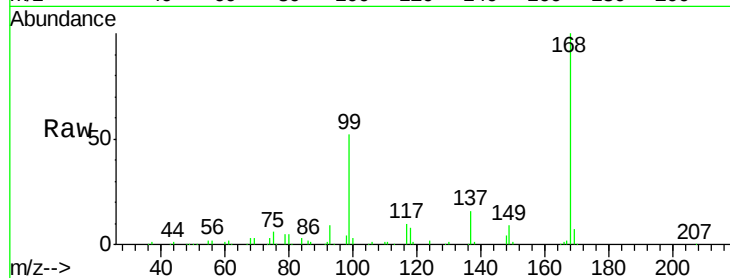
Tot Ion: 56 Resp: 5685

Ion Ratio Lower Upper

56 100

69 169.0 27.8 41.8#

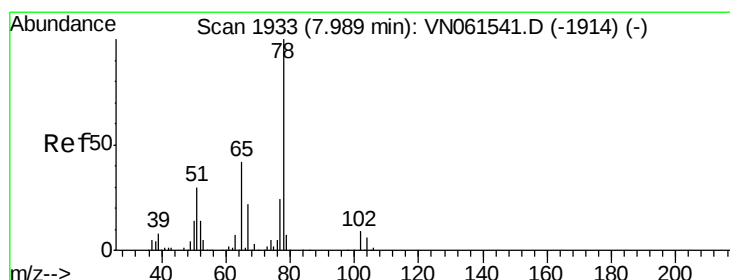
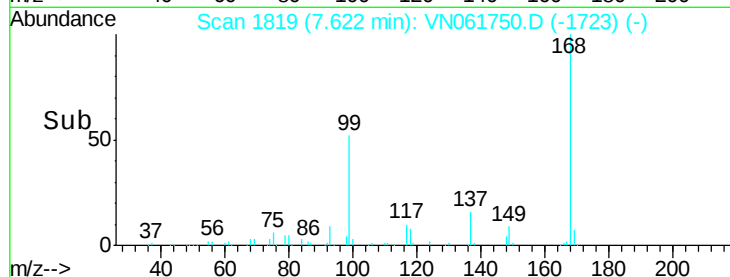
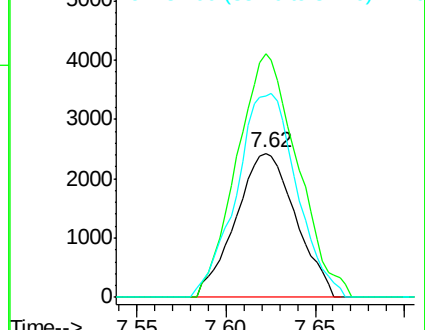
84 140.1 79.9 119.9#



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: 45.944 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061750.D

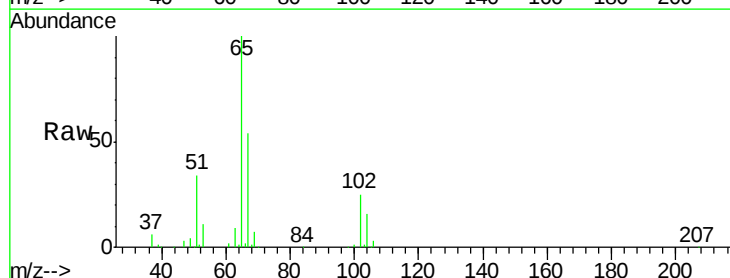
Acq: 11 Jun 2020 16:27

Tgt Ion: 65 Resp: 171976

Ion Ratio Lower Upper

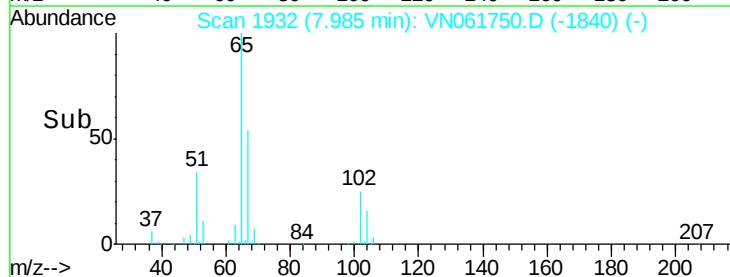
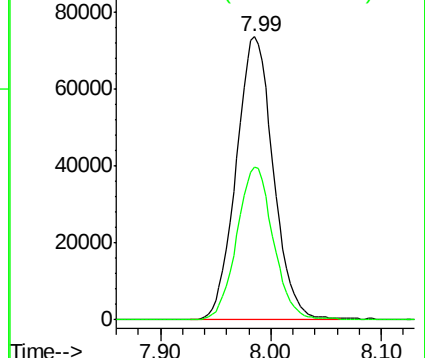
65 100

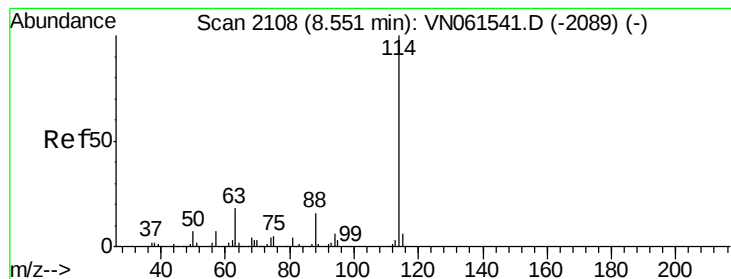
67 52.8 0.0 104.8



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# 2107

Delta R.T. -0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

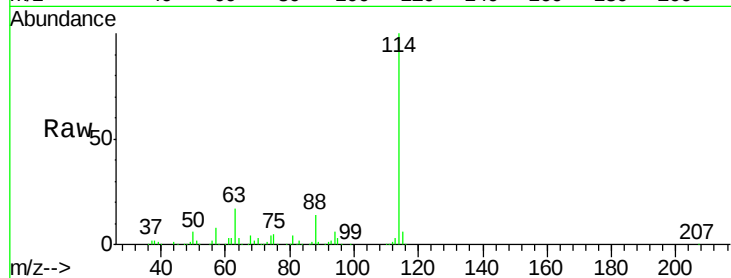
Tot Ion:114 Resp: 526196

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.8

88 14.0 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

300000

200000

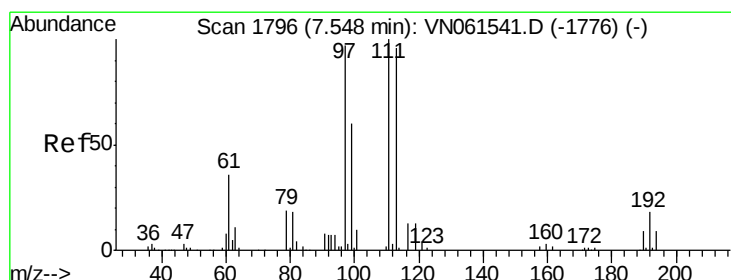
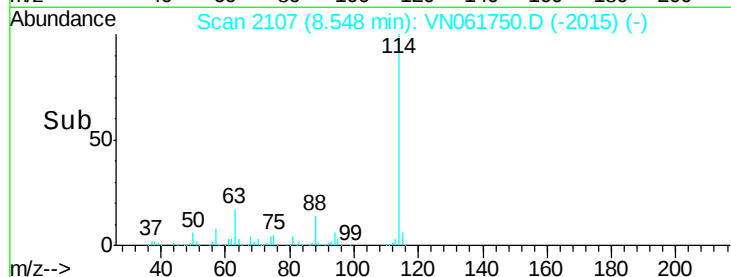
100000

0

8.55

8.50 8.60

Time-->



#35

Dibromofluoromethane

Concen: 54.138 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

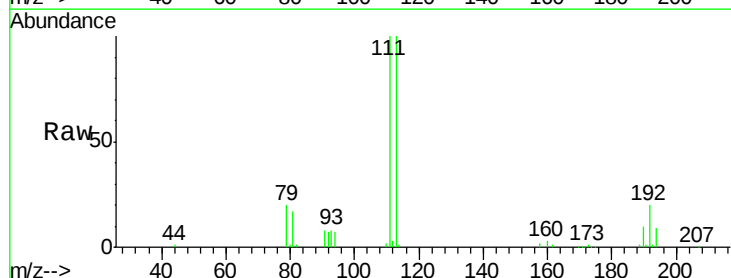
Tgt Ion:113 Resp: 144509

Ion Ratio Lower Upper

113 100

111 102.1 83.4 125.0

192 20.4 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

80000

60000

40000

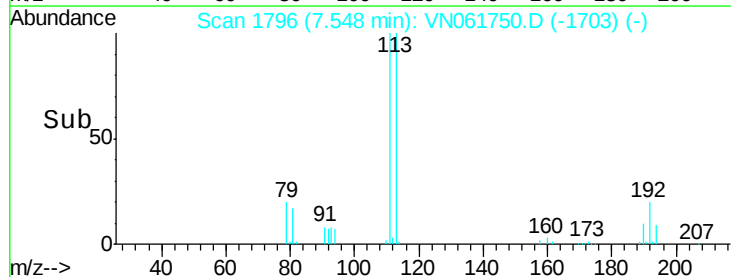
20000

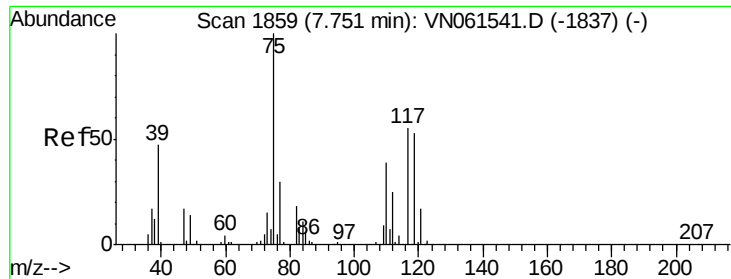
0

7.55

7.50 7.60

Time-->

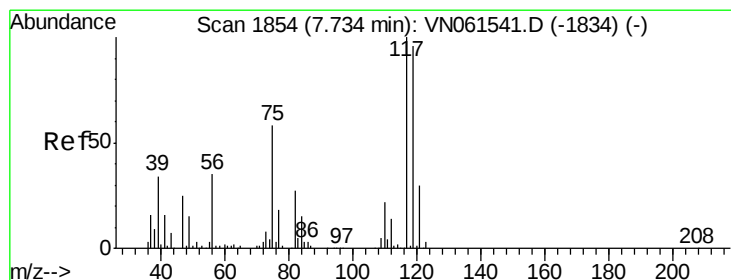
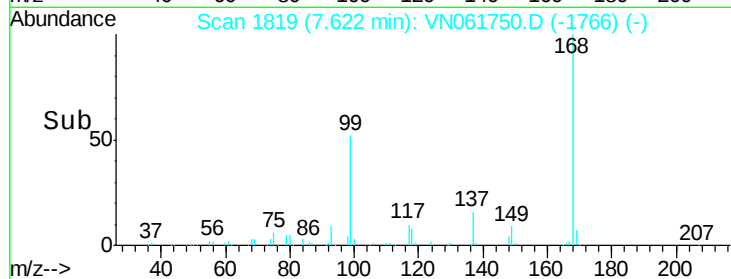
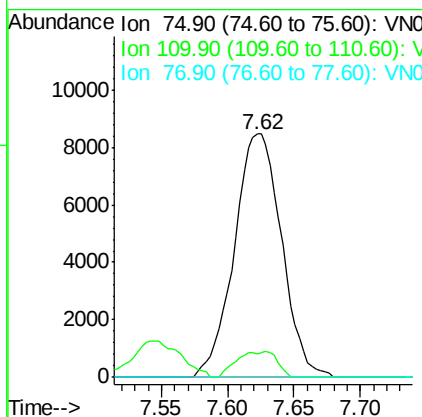
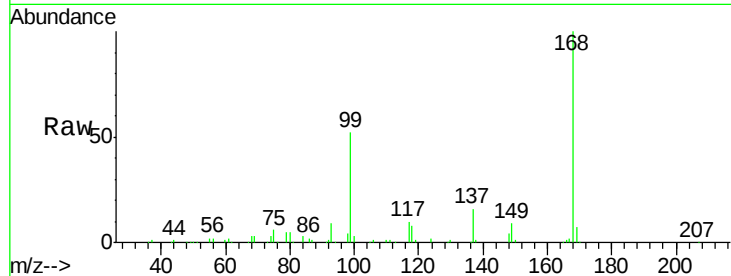




#36
 1,1-Dichloropropene
 Concen: 4.512 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061750.D
 Acq: 11 Jun 2020 16:27

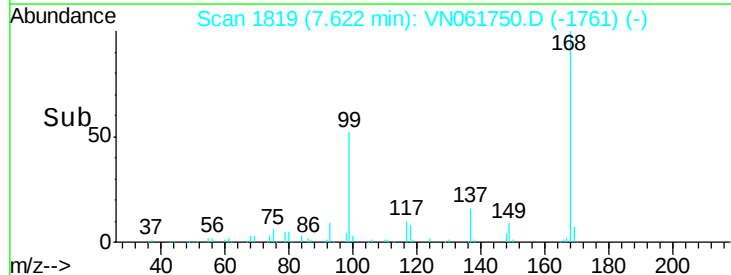
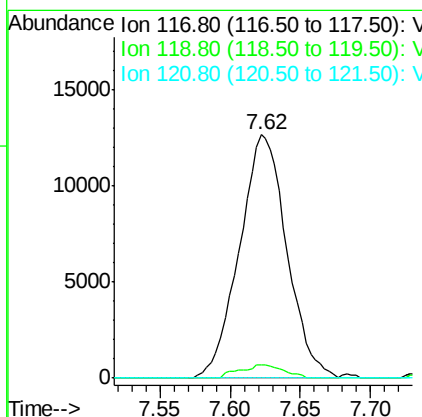
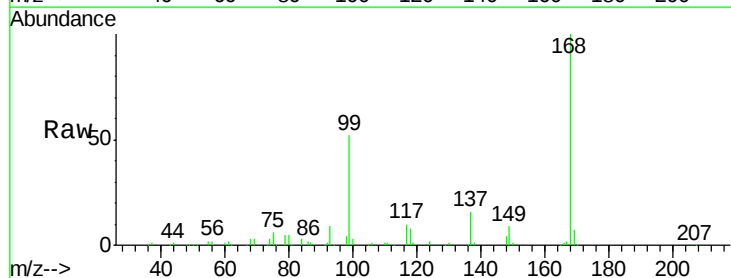
Instrument :
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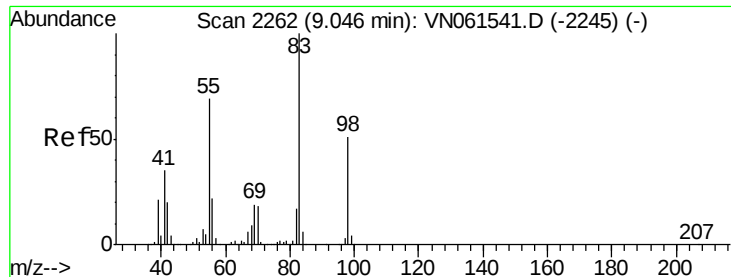
Tot Ion: 75 Resp: 21020
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.600 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061750.D
 Acq: 11 Jun 2020 16:27

Tgt Ion: 117 Resp: 29655
 Ion Ratio Lower Upper
 117 100
 119 5.5 76.5 114.7#
 121 0.0 24.1 36.1#

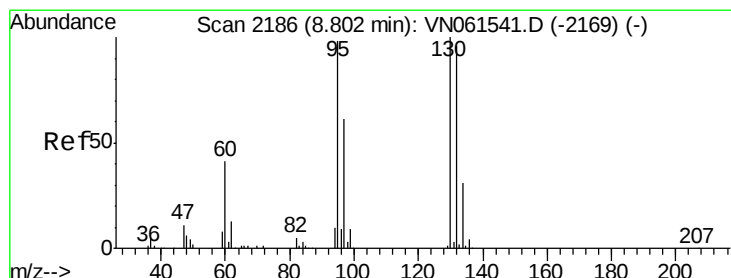
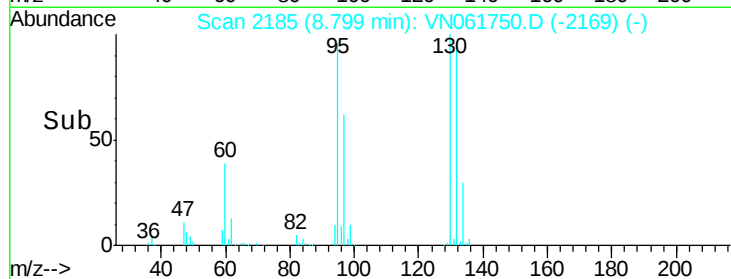
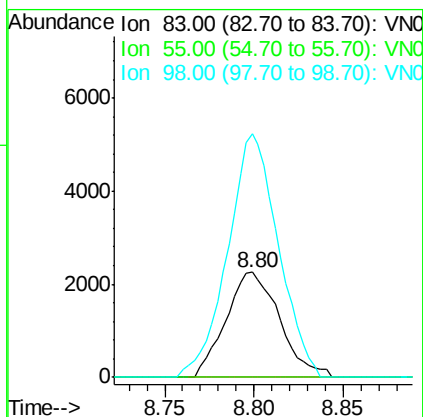
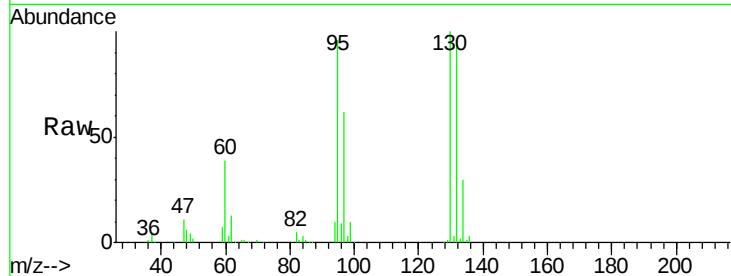




#39
Methylcyclohexane
Concen: 0.823 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

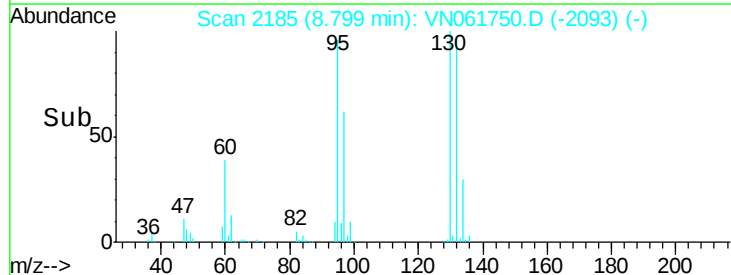
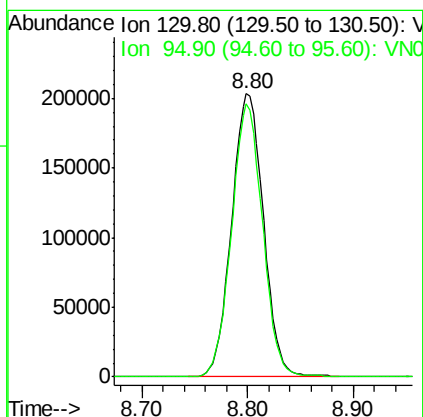
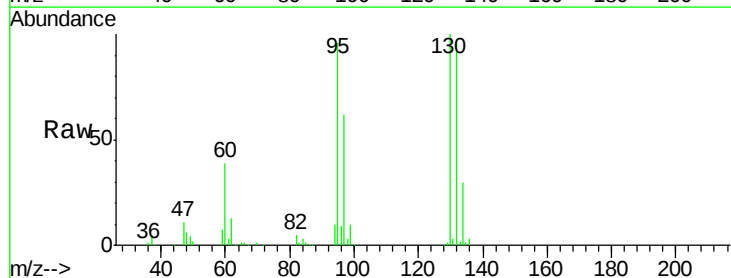
Instrument :
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RE132D6-20200608

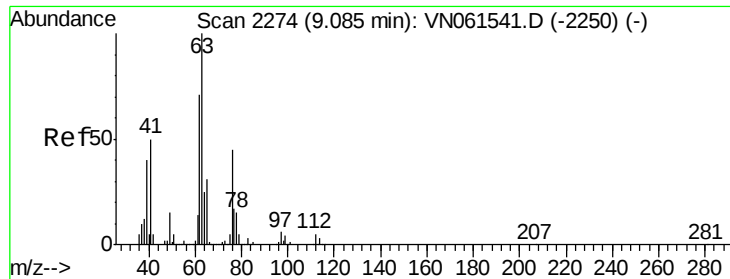
Tot Ion: 83 Resp: 4728
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 231.5 41.0 61.4#



#44
Trichloroethene
Concen: 96.254 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VN061750.D
Acq: 11 Jun 2020 16:27

Tgt Ion:130 Resp: 425162
Ion Ratio Lower Upper
130 100
95 96.4 0.0 196.6





#45

1,2-Dichloropropane

Concen: 0.281 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.29 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

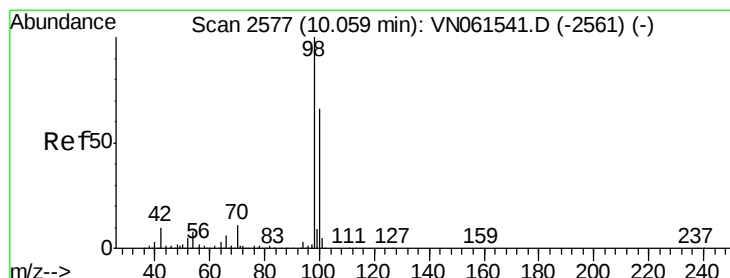
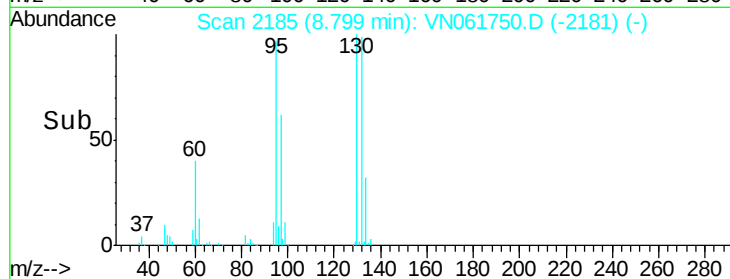
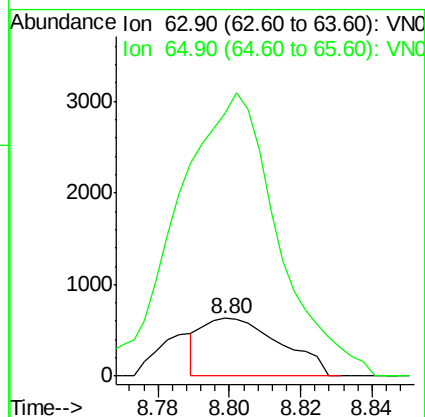
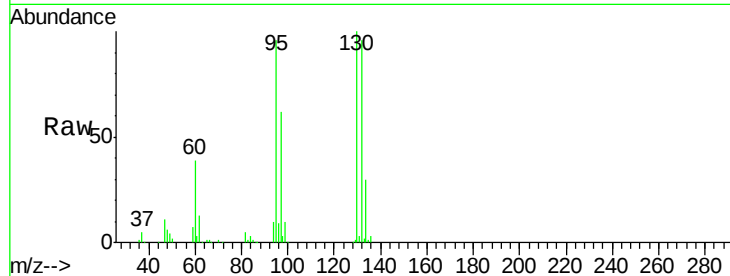
RE132D6-20200608

Tot Ion: 63 Resp: 960

Ion Ratio Lower Upper

63 100

65 404.3 24.7 37.1#



#50

Toluene-d8

Concen: 51.440 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061750.D

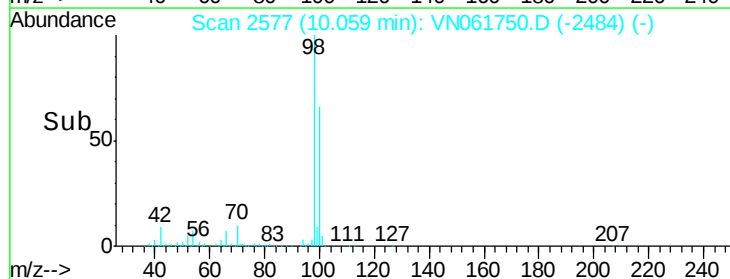
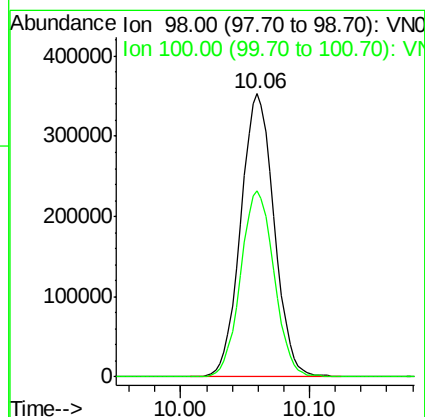
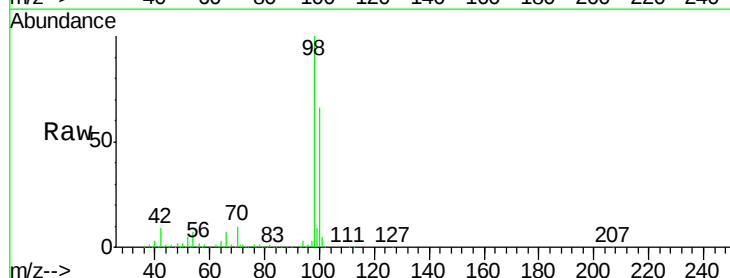
Acq: 11 Jun 2020 16:27

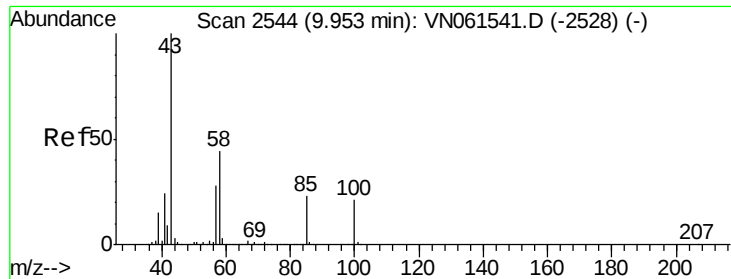
Tgt Ion: 98 Resp: 636301

Ion Ratio Lower Upper

98 100

100 66.0 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 0.609 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

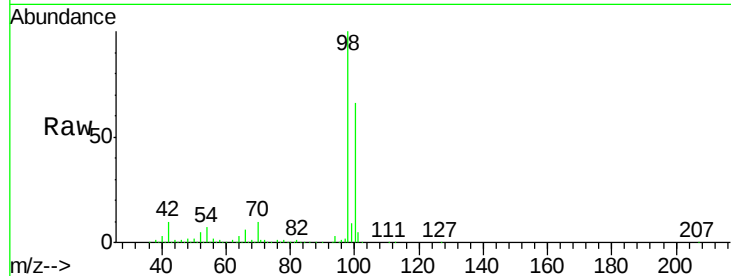
RE132D6-20200608

Tot Ion: 43 Resp: 2316

Ion Ratio Lower Upper

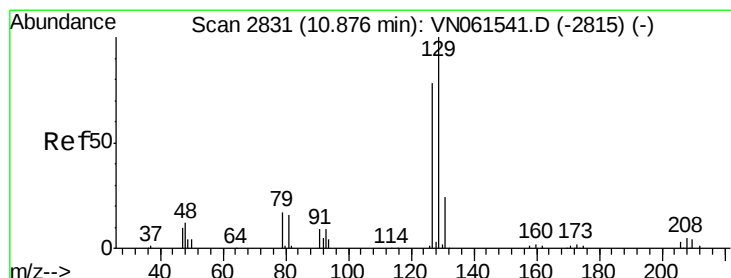
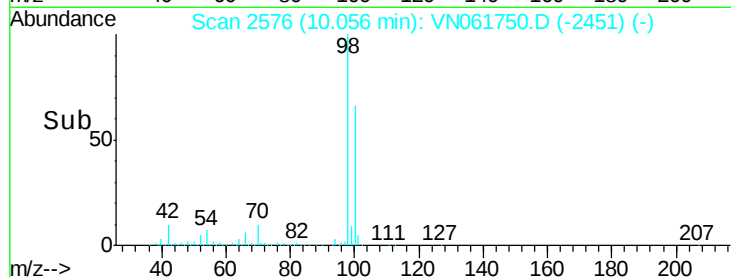
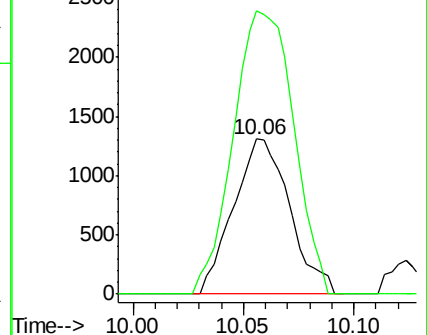
43 100

58 195.6 35.0 52.6#



Abundance Ion 43.00 (42.70 to 43.70): VN061750.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061750.D (-2528) (-)



#60

Dibromochloromethane

Concen: 0.277 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061750.D

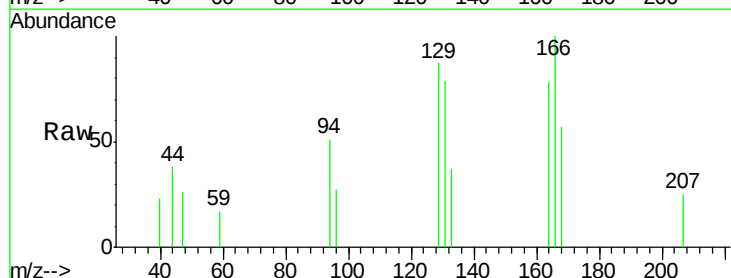
Acq: 11 Jun 2020 16:27

Tgt Ion: 129 Resp: 1177

Ion Ratio Lower Upper

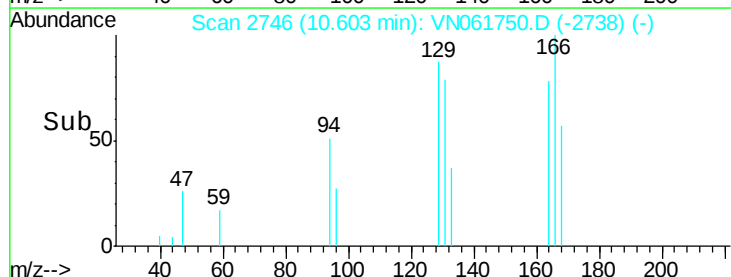
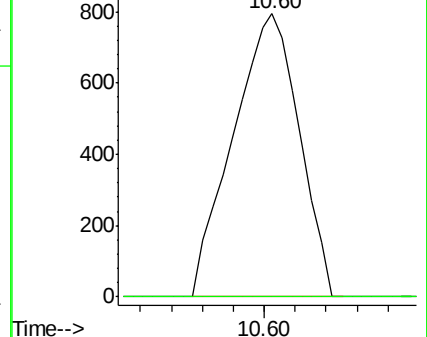
129 100

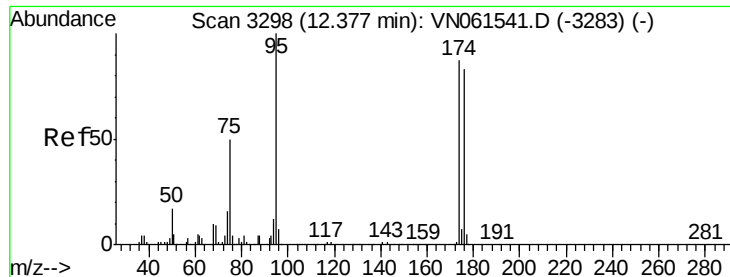
127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): VN061750.D (-2815) (-)

Ion 126.80 (126.50 to 127.50): VN061750.D (-2815) (-)





#62

4-Bromofluorobenzene

Concen: 49.853 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

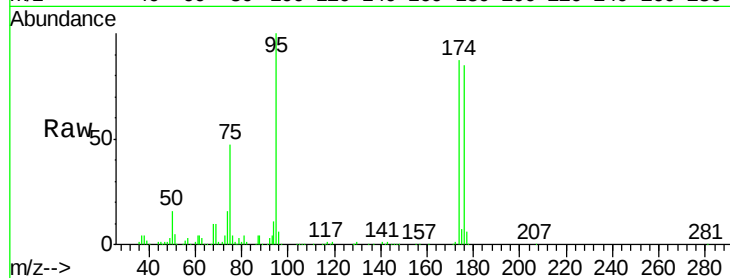
Tot Ion: 95 Resp: 224986

Ion Ratio Lower Upper

95 100

174 88.1 0.0 172.8

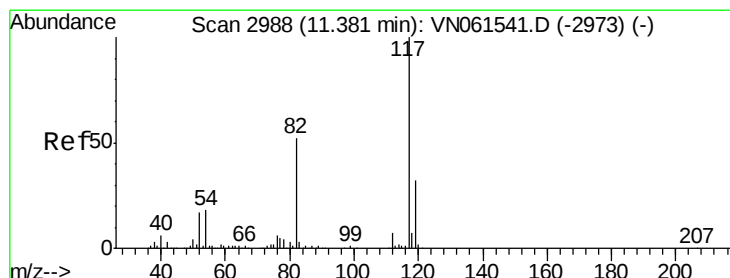
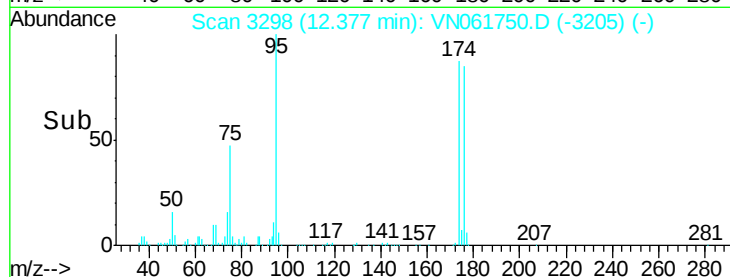
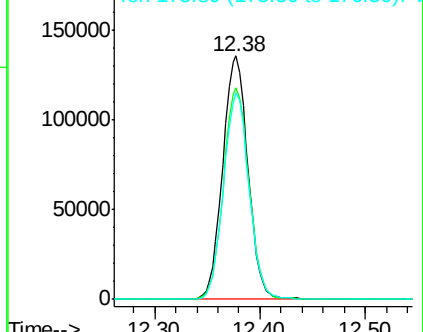
176 85.3 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN061750.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061750.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061750.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

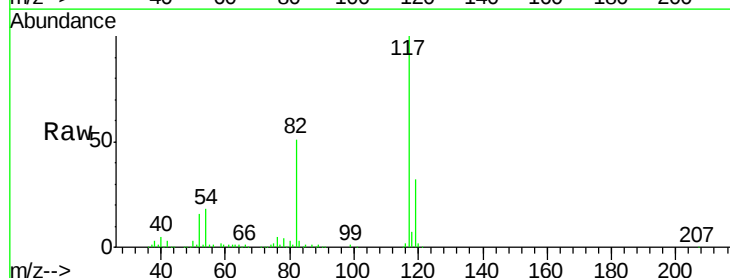
Tgt Ion: 117 Resp: 529059

Ion Ratio Lower Upper

117 100

82 50.9 41.5 62.3

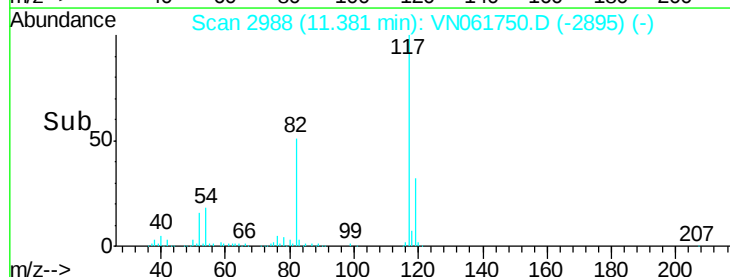
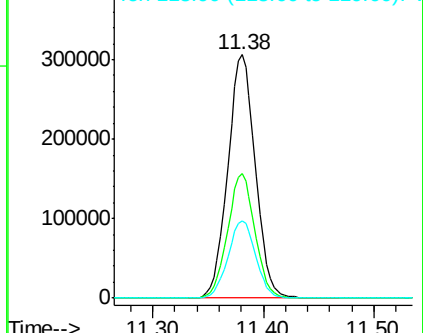
119 31.8 25.6 38.4

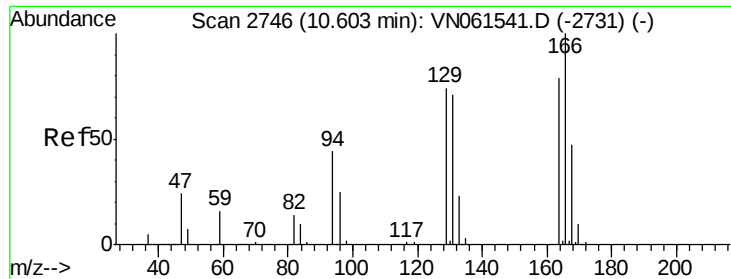


Abundance Ion 116.90 (116.60 to 117.60): VN061750.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061750.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061750.D (-2895) (-)





#64

Tetrachloroethene

Concen: 0.254 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. 0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

Tot Ion:164 Resp: 1265

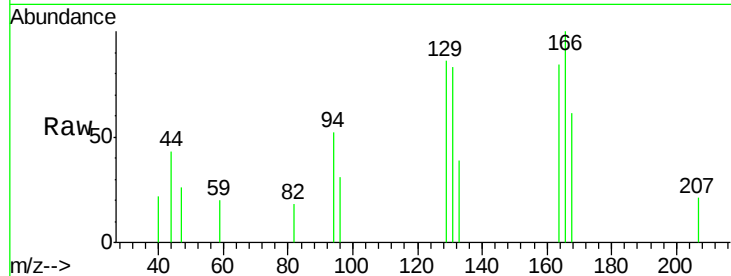
Ion Ratio Lower Upper

164 100

166 118.8 101.5 152.3

129 102.4 74.9 112.3

131 98.3 72.2 108.2

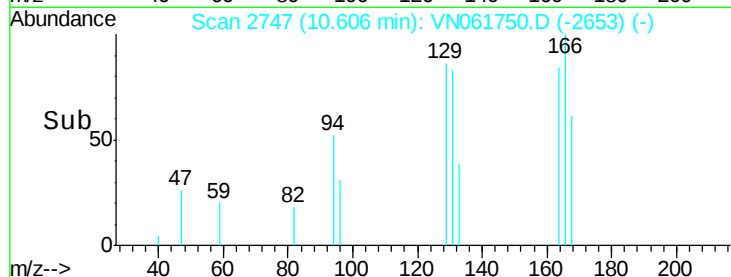


Abundance Ion 163.80 (163.50 to 164.50): V

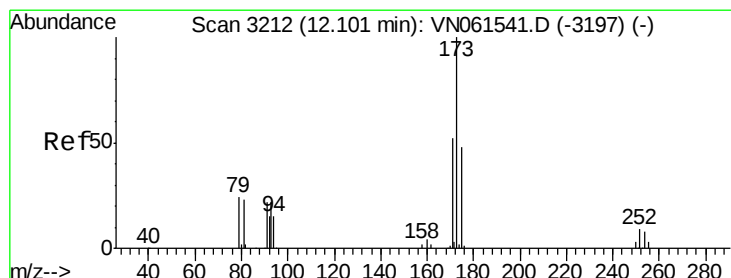
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time--> 10.55 10.60 10.65



#71

Bromoform

Concen: 0.301 ug/l

RT: 12.37 min Scan# 3296

Delta R.T. 0.27 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

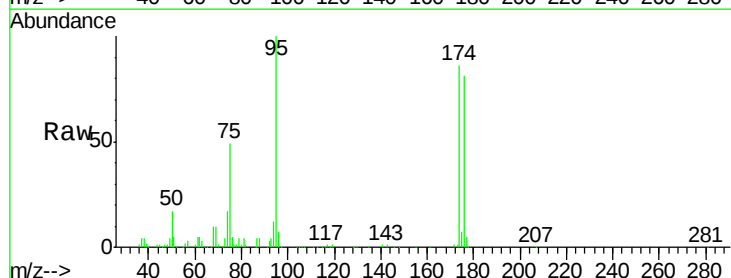
Tgt Ion:173 Resp: 950

Ion Ratio Lower Upper

173 100

175 1406.3 24.4 73.2#

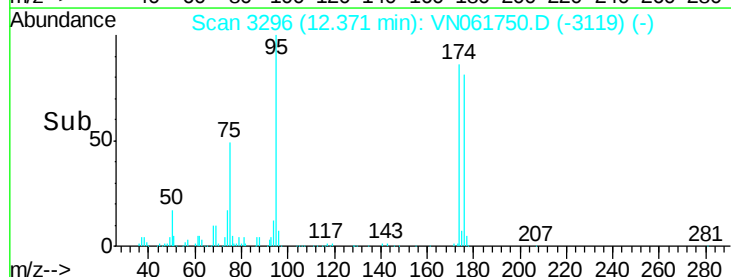
254 0.0 0.0 0.0



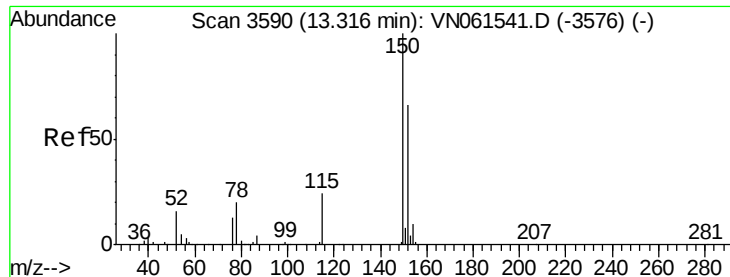
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time--> 12.34 12.36 12.38



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

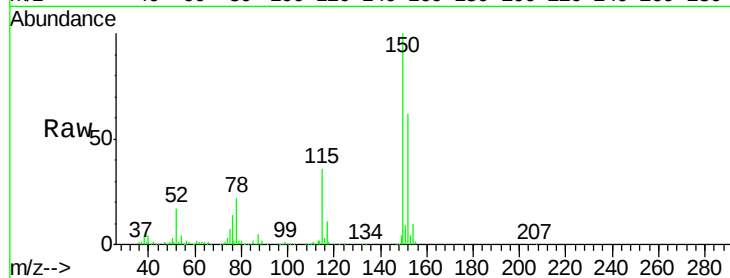
Tot Ion:152 Resp: 232239

Ion Ratio Lower Upper

152 100

115 56.9 28.0 84.0

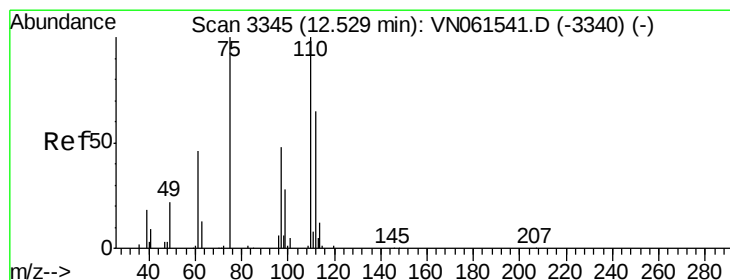
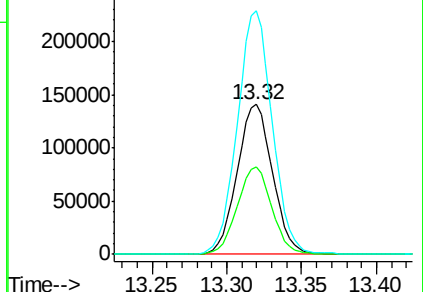
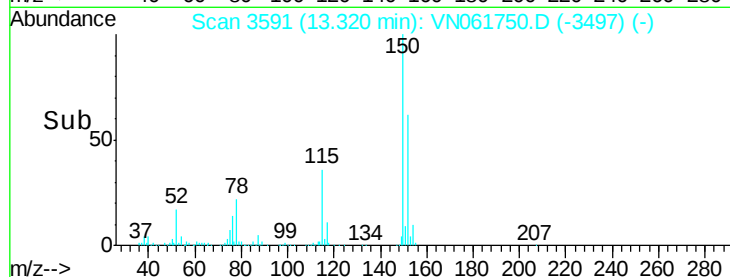
150 160.5 0.0 344.0



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: 25.629 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061750.D

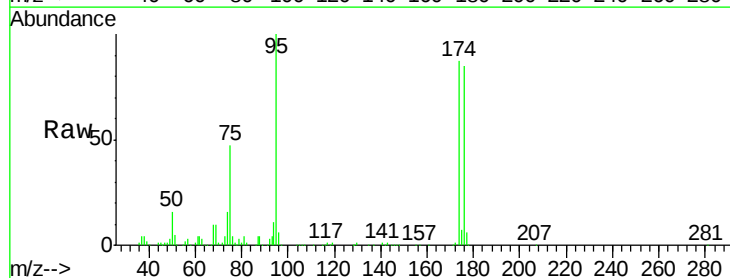
Acq: 11 Jun 2020 16:27

Tgt Ion: 75 Resp: 108232

Ion Ratio Lower Upper

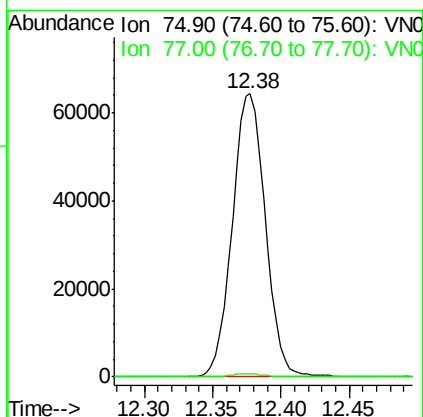
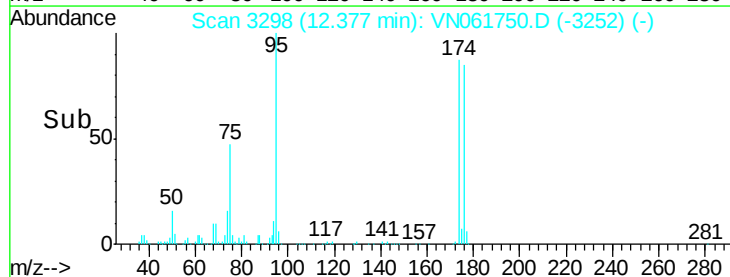
75 100

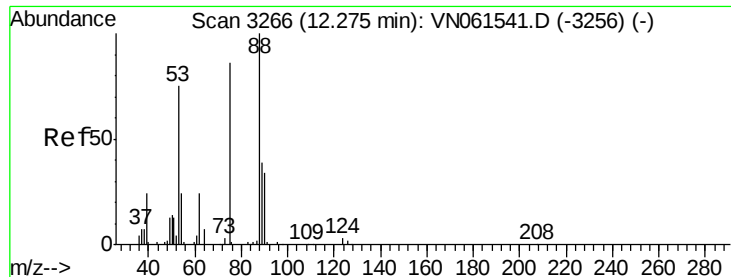
77 1.1 0.0 0.0#



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: 65.541 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061750.D

Acq: 11 Jun 2020 16:27

Instrument :

MSVOA_N

ClientSampleId :

RE132D6-20200608

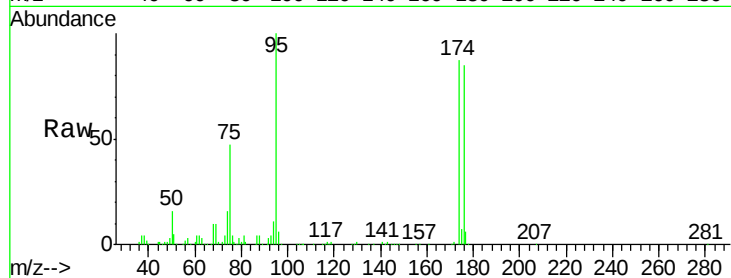
Tot Ion: 75 Resp: 108232

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): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

