

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061748.D
 Acq On : 11 Jun 2020 15:40
 Operator : JC/MD
 Sample : L2988-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D1-20200608

Quant Time: Jun 12 05:11:28 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	288175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	491454	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	478961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	207890	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	160635	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
35) Dibromofluoromethane	7.55	113	131730	52.84	ug/l	0.00
Spiked Amount			Recovery	=	105.68%	
50) Toluene-d8	10.06	98	588188	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
62) 4-Bromofluorobenzene	12.38	95	199212	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	

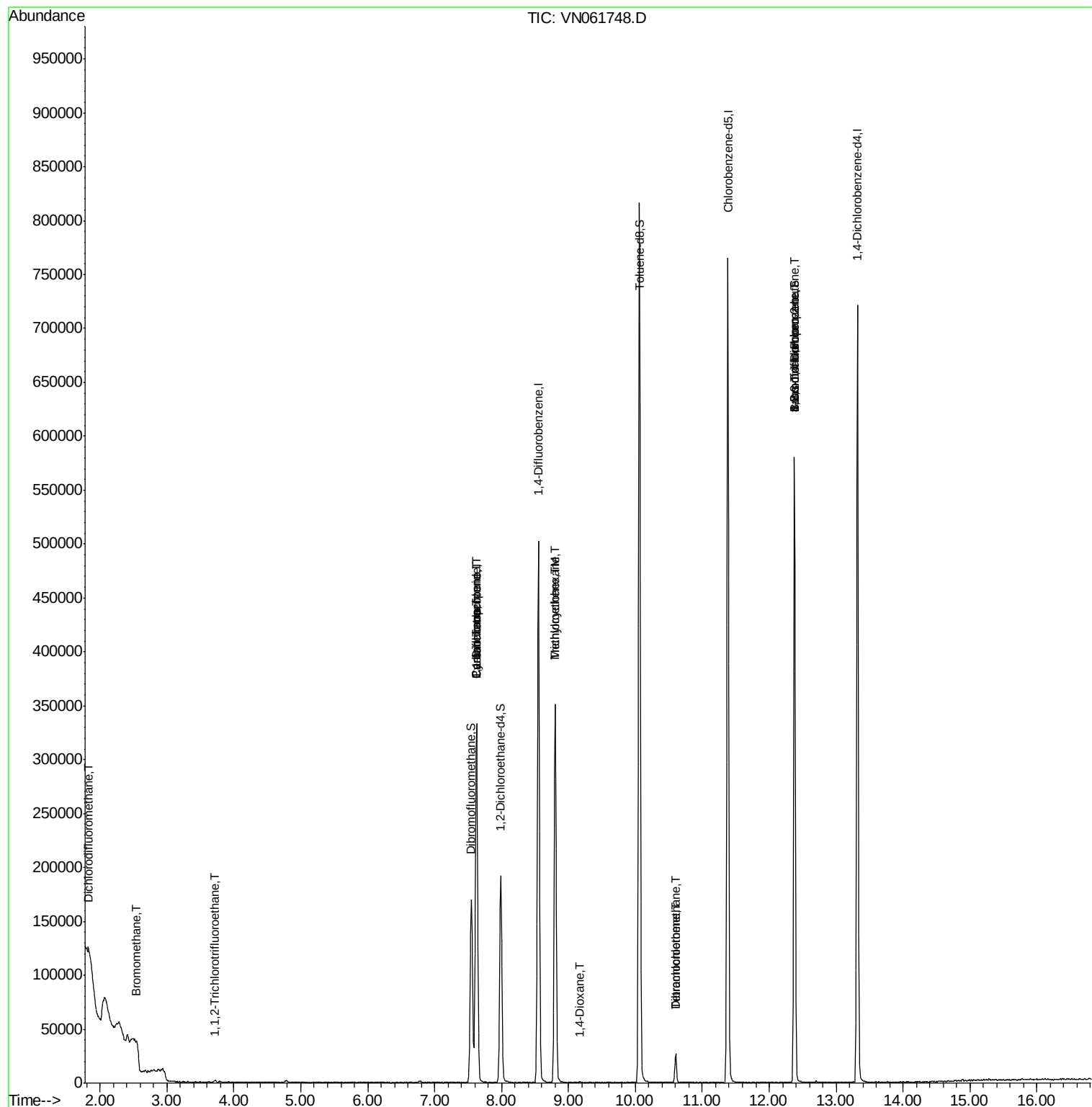
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	29	1.157	ug/l #	43
5) Bromomethane	2.55	94	752	0.272	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.71	101	566	0.205	ug/l #	79
16) Acetone	3.79	43	1063	Below Cal	#	41
31) Cyclohexane	7.62	56	4702	0.972	ug/l #	11
36) 1,1-Dichloropropene	7.62	75	19121	4.395	ug/l #	49
38) Carbon Tetrachloride	7.63	117	27985	6.669	ug/l #	17
39) Methylcyclohexane	8.80	83	1404	0.262	ug/l #	1
44) Trichloroethene	8.80	130	136861	33.175	ug/l	96
49) 1,4-Dioxane	9.17	88	393	8.944	ug/l #	75
60) Dibromochloromethane	10.60	129	5719	1.441	ug/l #	11
64) Tetrachloroethene	10.60	164	6459	1.433	ug/l	89
71) Bromoform	12.37	173	1597	0.559	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	95618	25.294	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	95618	64.684	ug/l #	15

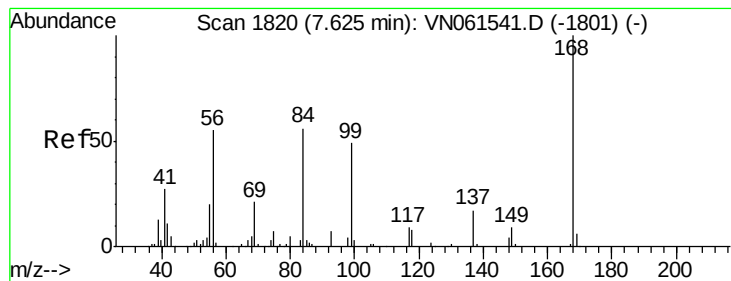
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

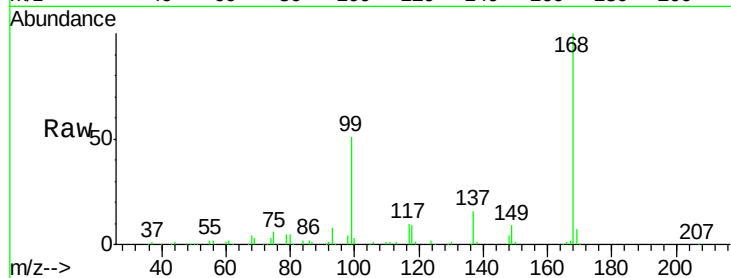
RE108D1-20200608

Tot Ion:168 Resp: 288175

Ion Ratio Lower Upper

168 100

99 51.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

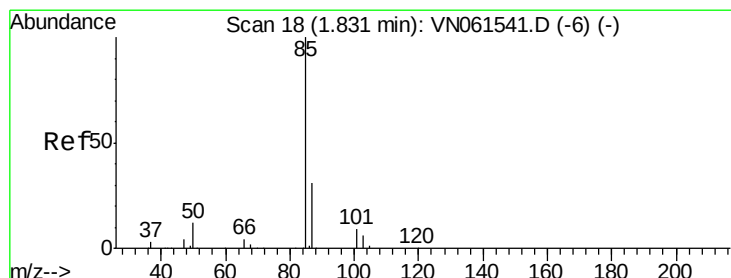
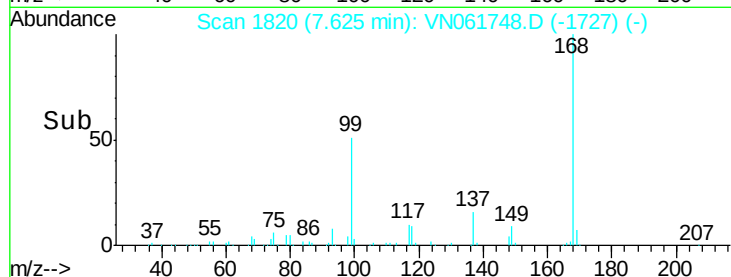
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.157 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061748.D

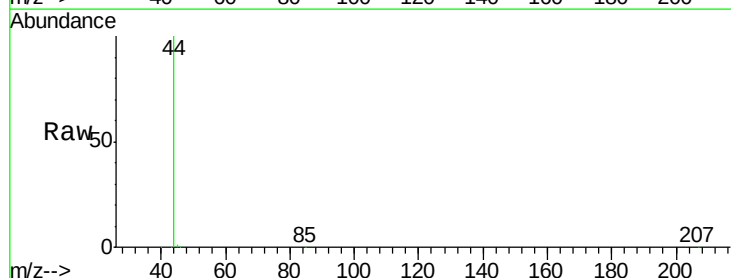
Acq: 11 Jun 2020 15:40

Tgt Ion: 85 Resp: 29

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

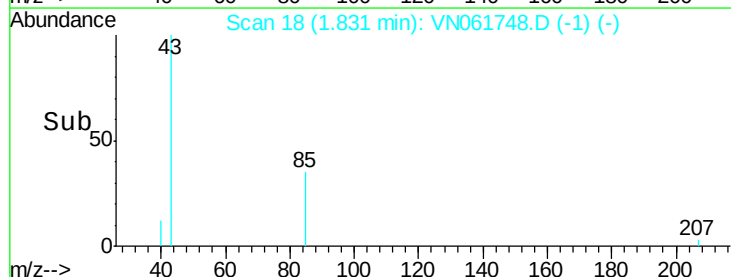
150

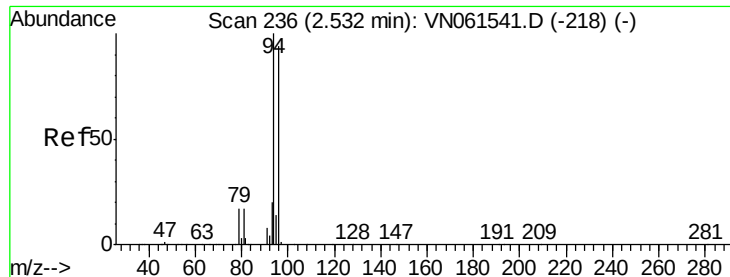
100

50

0

Time--> 1.82 1.83 1.84 1.84





#5

Bromomethane

Concen: 0.272 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

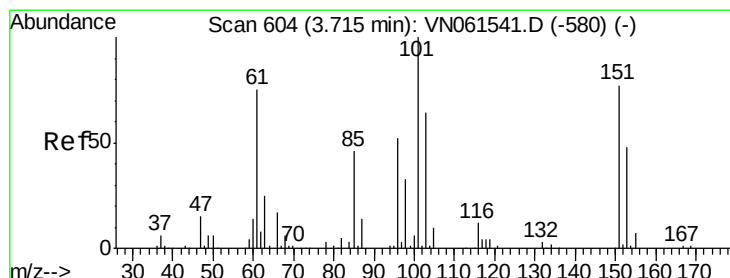
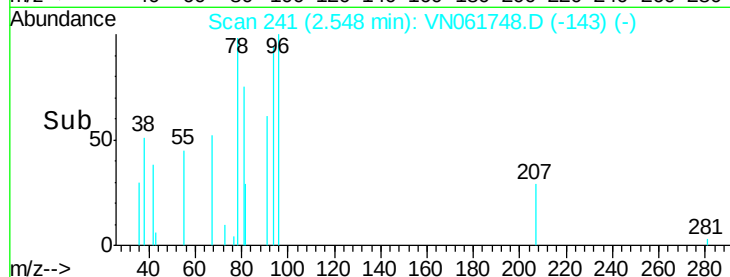
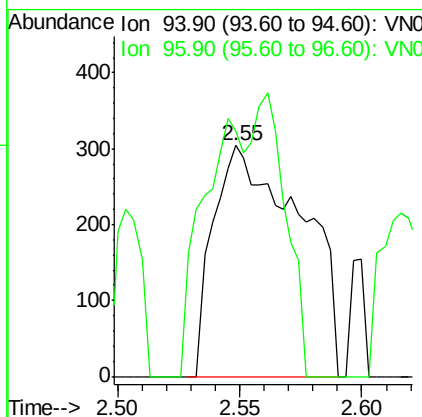
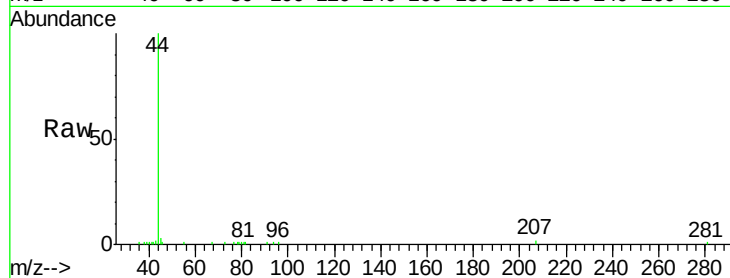
RE108D1-20200608

Tot Ion: 94 Resp: 752

Ion Ratio Lower Upper

94 100

96 106.3 74.8 112.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.205 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.01 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

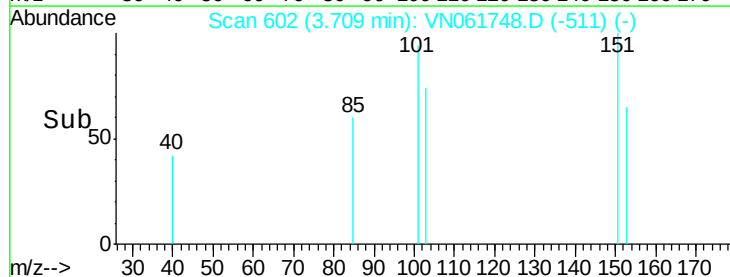
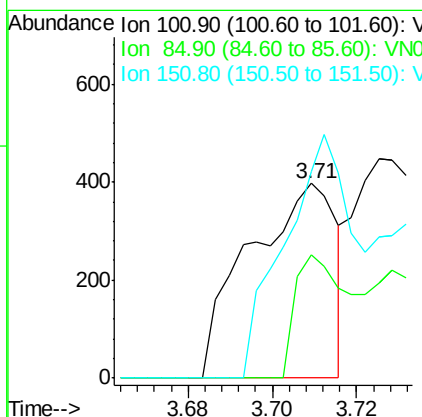
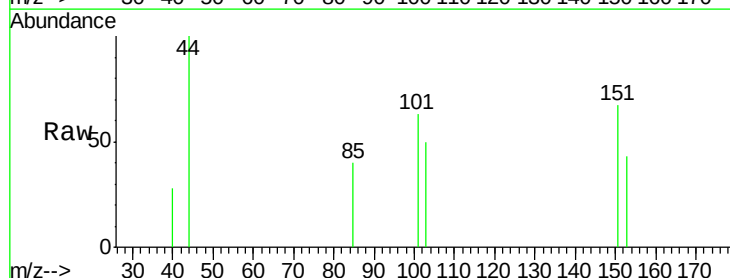
Tgt Ion: 101 Resp: 566

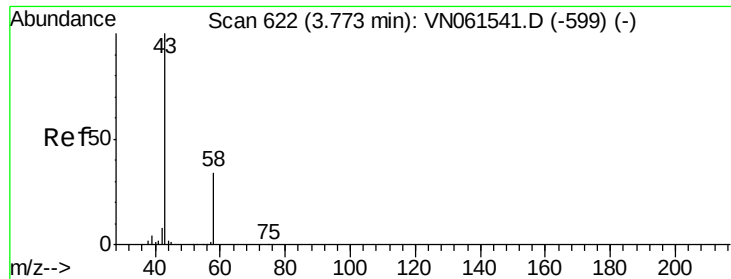
Ion Ratio Lower Upper

101 100

85 35.3 35.2 52.8

151 98.2 61.0 91.6#

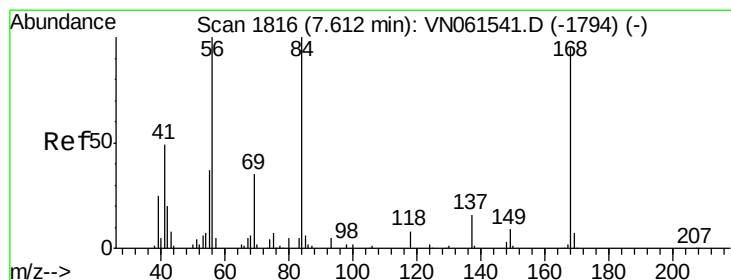
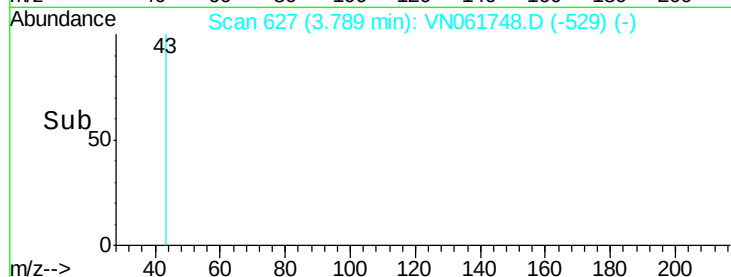
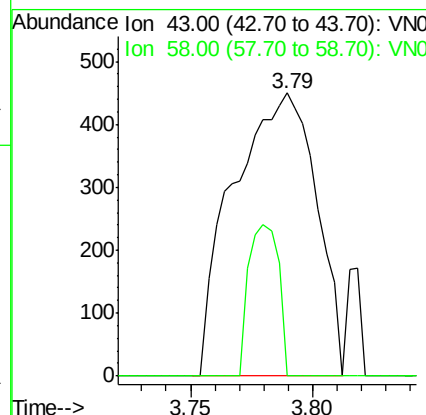
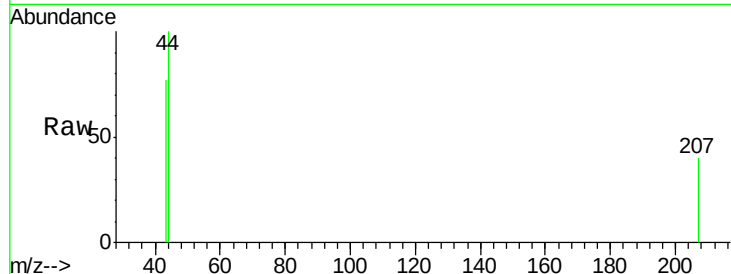




#16
Acetone
Concen: Below Cal
RT: 3.79 min Scan# 627
Delta R.T. 0.02 min
Lab File: VN061748.D
Acq: 11 Jun 2020 15:40

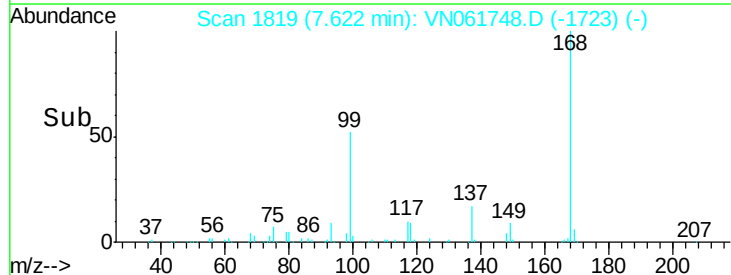
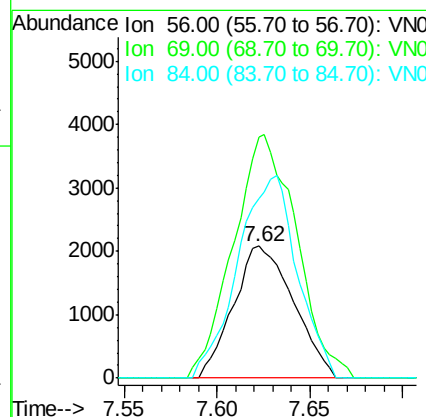
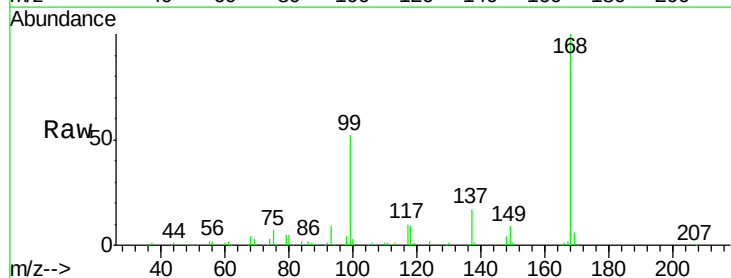
Instrument :
MSVOA_N
ClientSampleId :
RE108D1-20200608

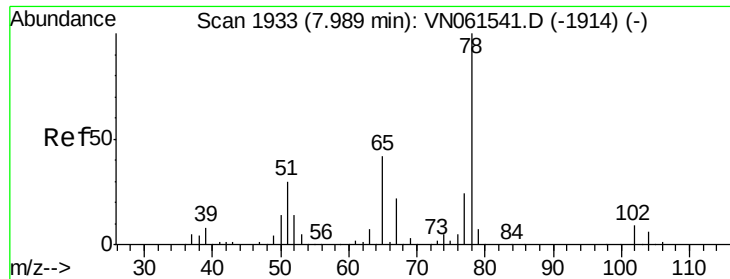
Tot Ion: 43 Resp: 1063
Ion Ratio Lower Upper
43 100
58 0.0 27.2 40.8#



#31
Cyclohexane
Concen: 0.972 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061748.D
Acq: 11 Jun 2020 15:40

Tgt Ion: 56 Resp: 4702
Ion Ratio Lower Upper
56 100
69 173.6 27.8 41.8#
84 136.3 79.9 119.9#

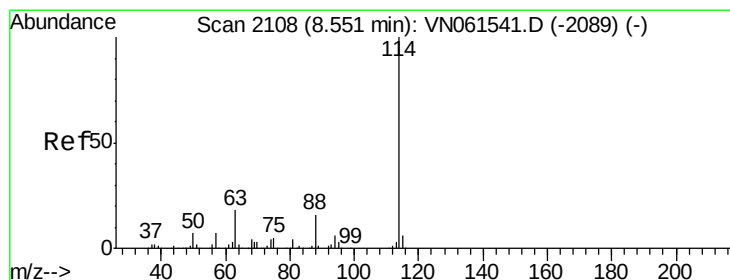
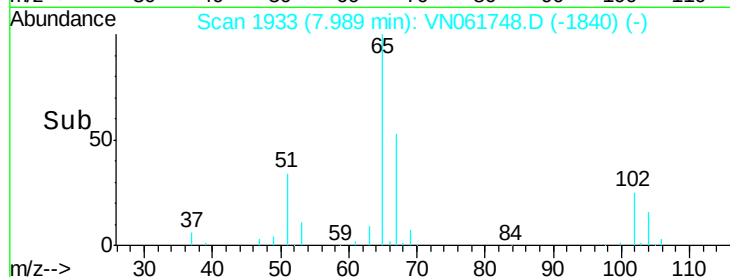
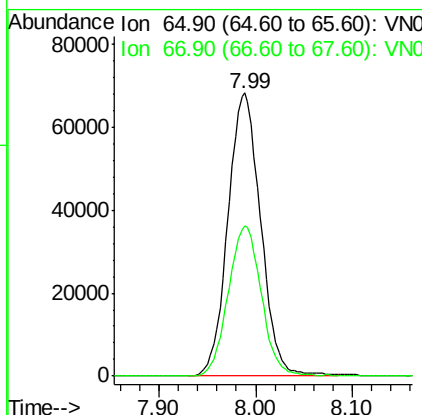
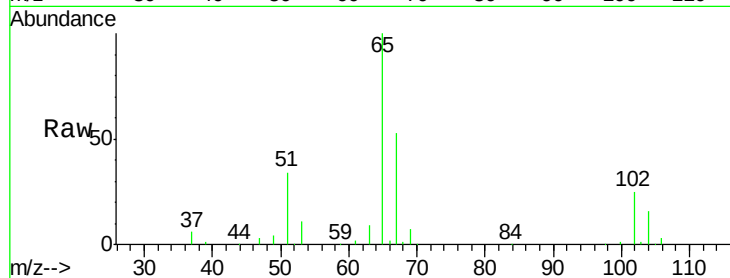




#33
 1,2-Dichloroethane-d4
 Concen: 46.786 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061748.D
 Acq: 11 Jun 2020 15:40

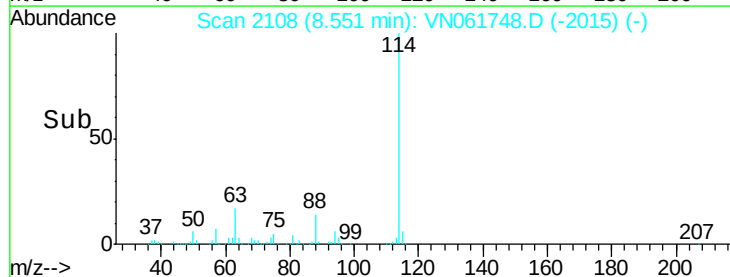
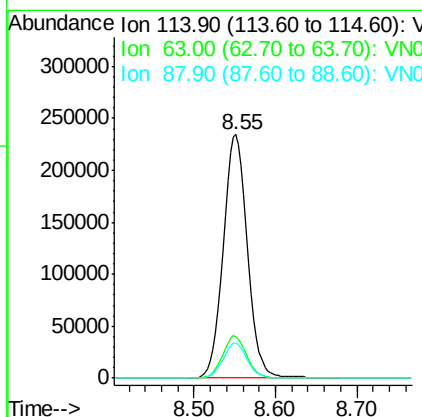
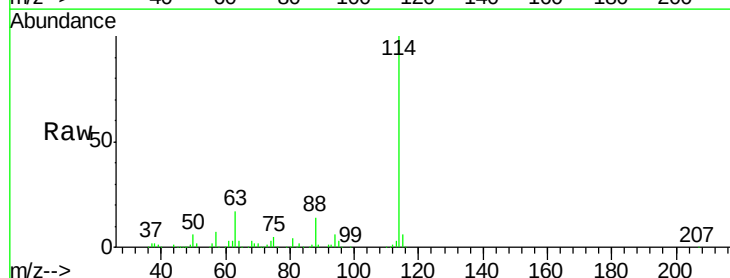
Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D1-20200608

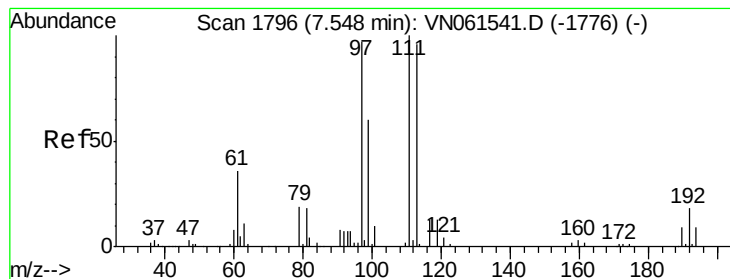
Tot Ion: 65 Resp: 160635
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061748.D
 Acq: 11 Jun 2020 15:40

Tgt Ion: 114 Resp: 491454
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.8
 88 14.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 52.839 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200608

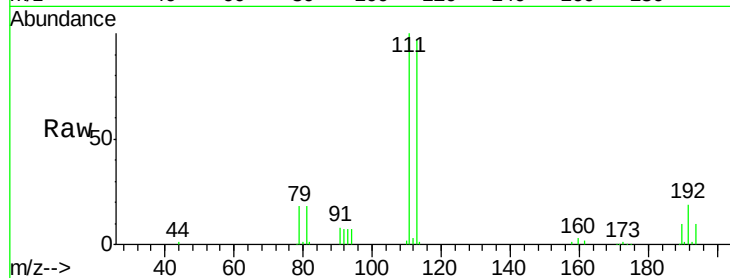
Tot Ion:113 Resp: 131730

Ion Ratio Lower Upper

113 100

111 104.0 83.4 125.0

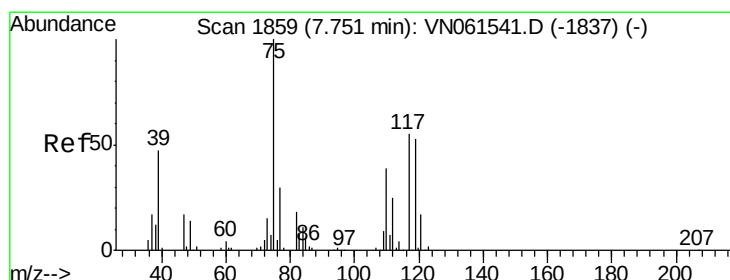
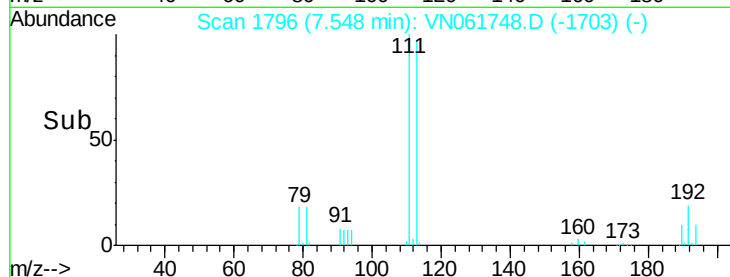
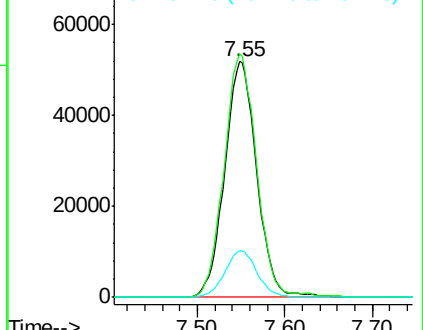
192 19.7 15.4 23.2



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: 4.395 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

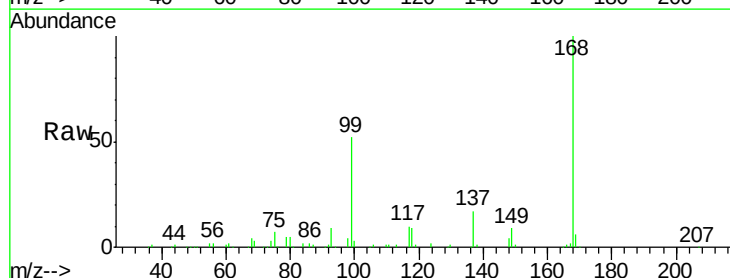
Tgt Ion: 75 Resp: 19121

Ion Ratio Lower Upper

75 100

110 10.8 19.5 58.5#

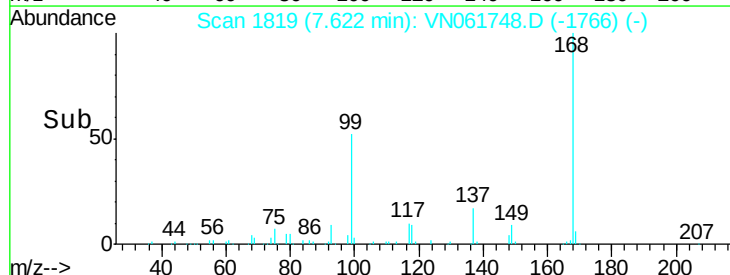
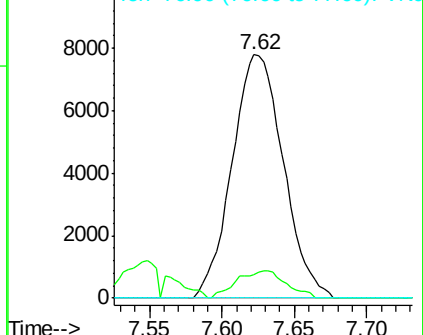
77 0.0 24.7 37.1#

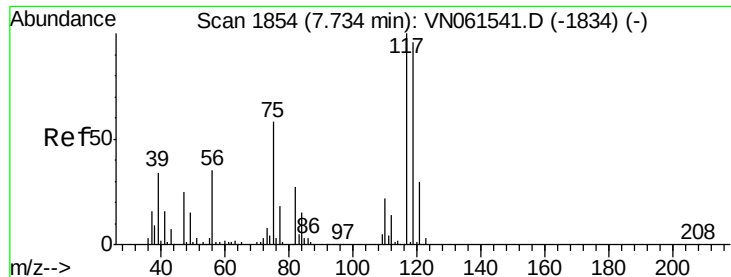


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.669 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

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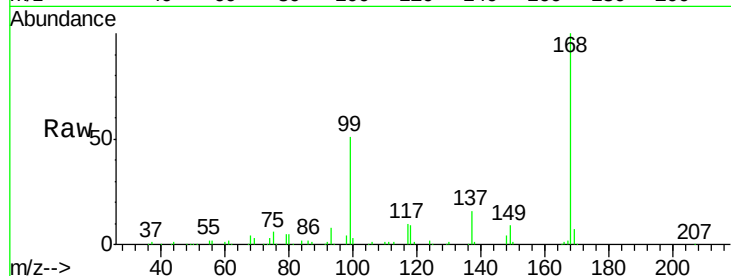
Tot Ion:117 Resp: 27985

Ion Ratio Lower Upper

117 100

119 5.6 76.5 114.7#

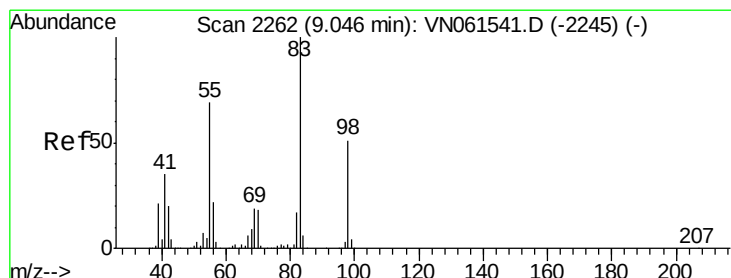
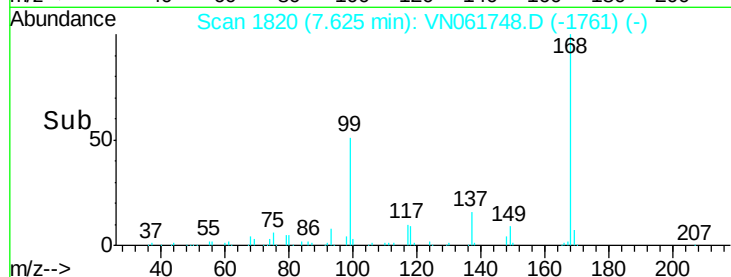
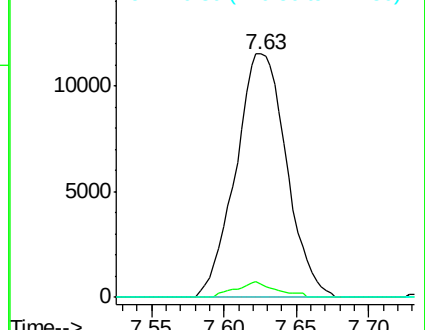
121 0.0 24.1 36.1#



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: 0.262 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

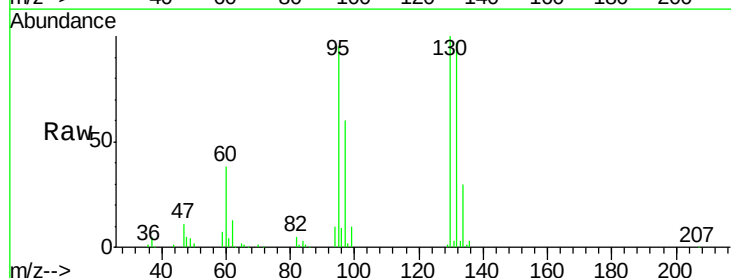
Tgt Ion: 83 Resp: 1404

Ion Ratio Lower Upper

83 100

55 0.0 54.9 82.3#

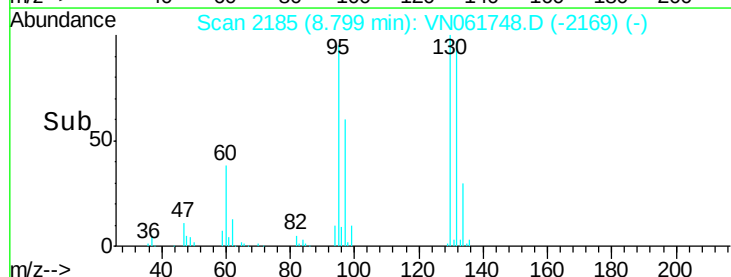
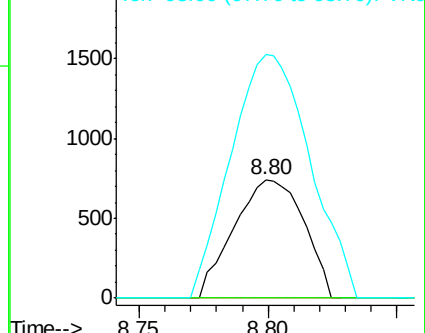
98 205.2 41.0 61.4#

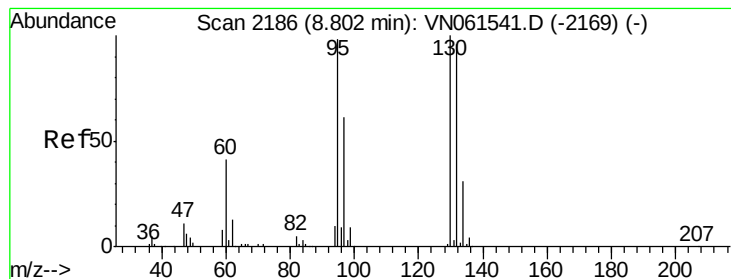


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 33.175 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

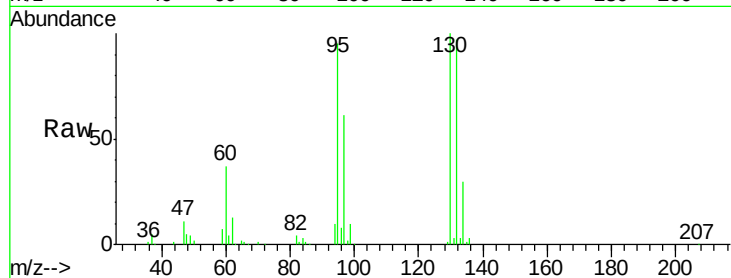
RE108D1-20200608

Tot Ion:130 Resp: 136861

Ion Ratio Lower Upper

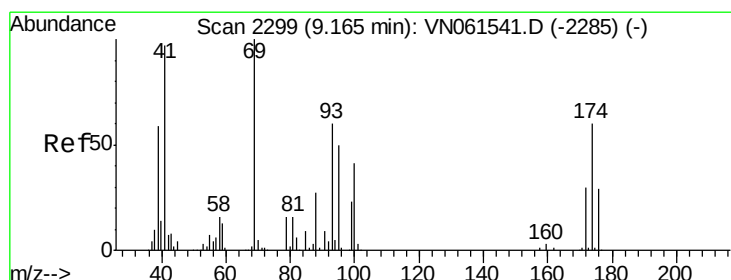
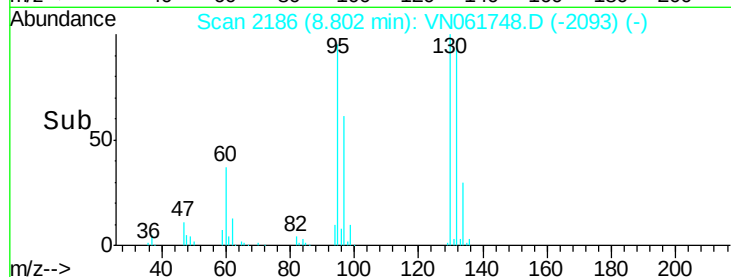
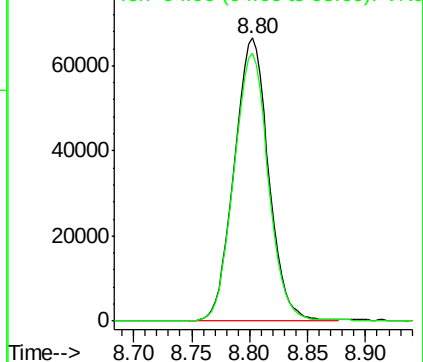
130 100

95 94.5 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#49

1,4-Dioxane

Concen: 8.944 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

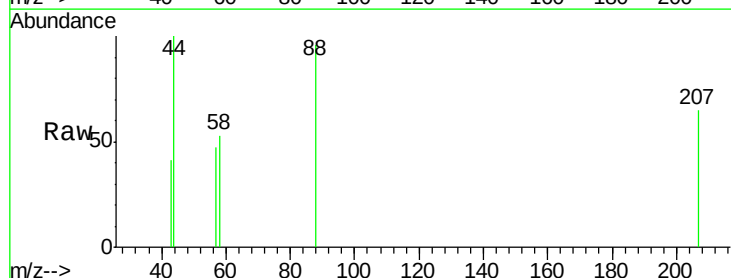
Tgt Ion: 88 Resp: 393

Ion Ratio Lower Upper

88 100

43 7.6 23.1 34.7#

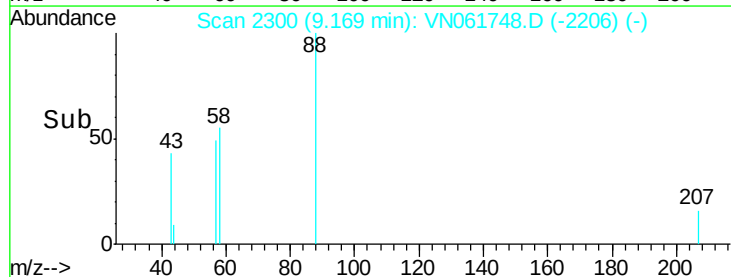
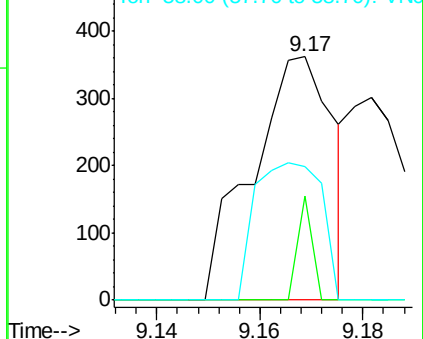
58 46.3 48.3 72.5#

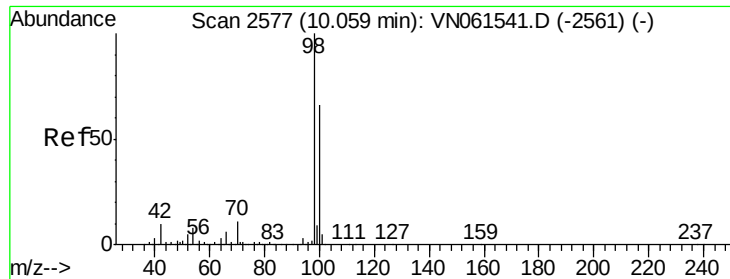


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 50.912 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

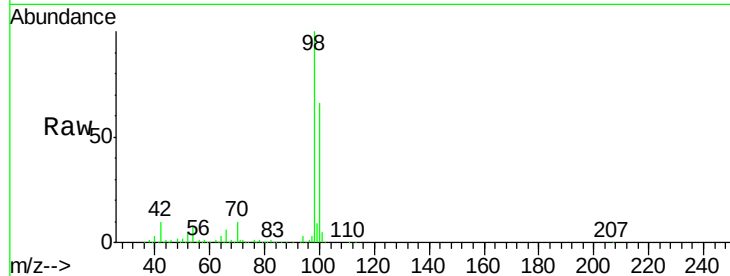
RE108D1-20200608

Tot Ion: 98 Resp: 588188

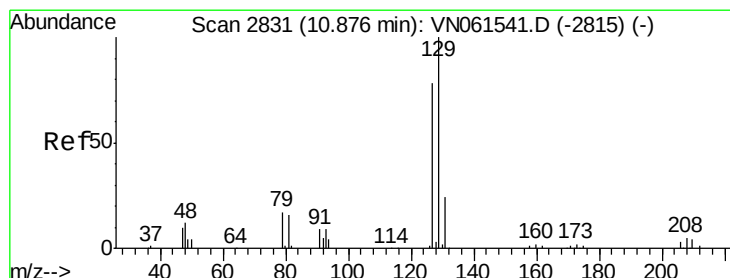
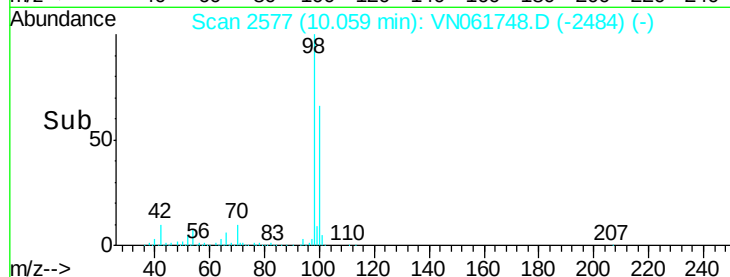
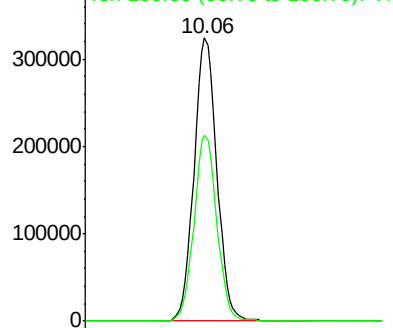
Ion Ratio Lower Upper

98 100

100 65.8 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)



#60

Dibromochloromethane

Concen: 1.441 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061748.D

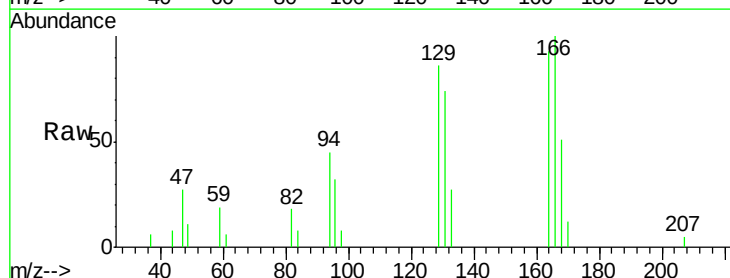
Acq: 11 Jun 2020 15:40

Tgt Ion: 129 Resp: 5719

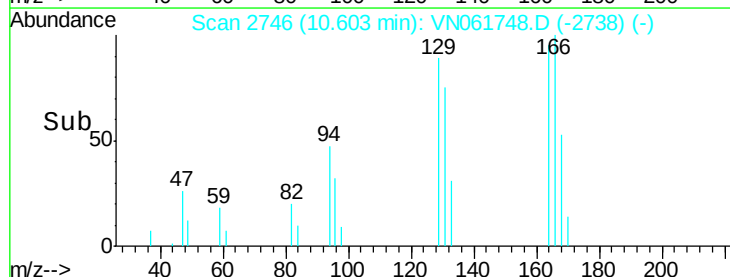
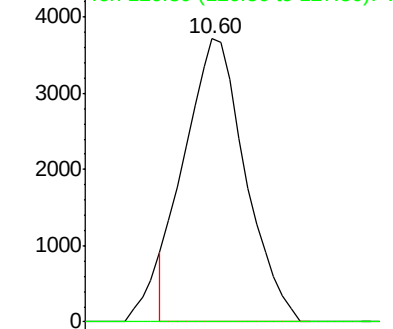
Ion Ratio Lower Upper

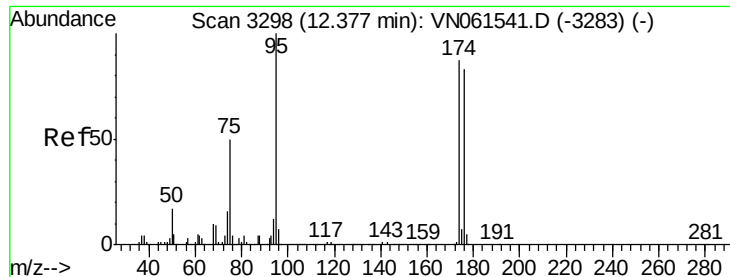
129 100

127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): VN061541.D (-2815) (-)

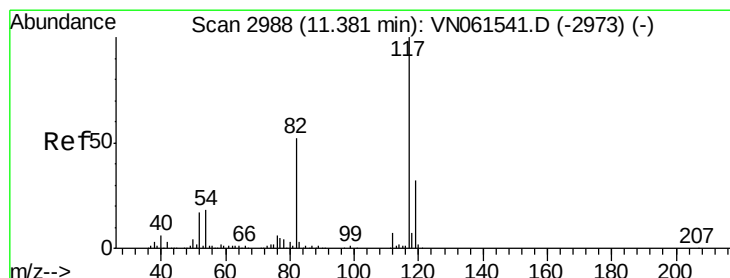
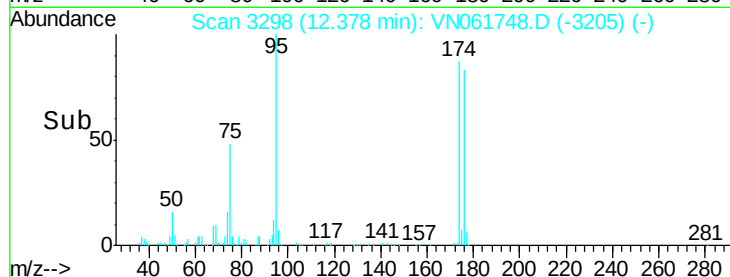
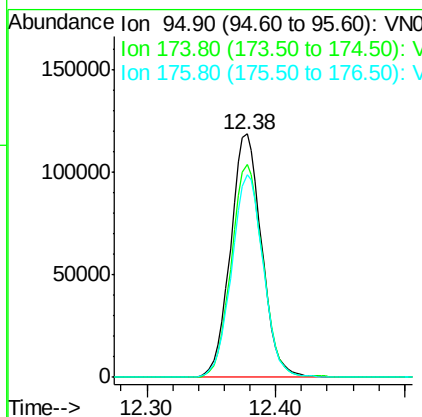
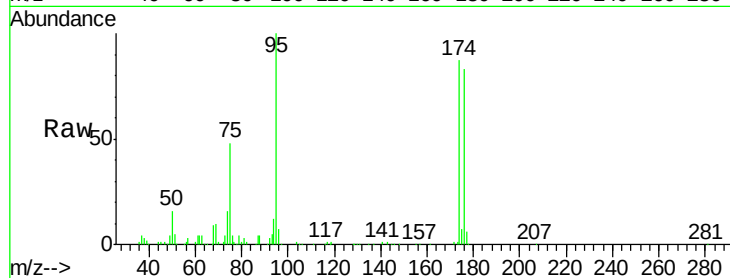




#62
4-Bromofluorobenzene
Concen: 47.263 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061748.D
Acq: 11 Jun 2020 15:40

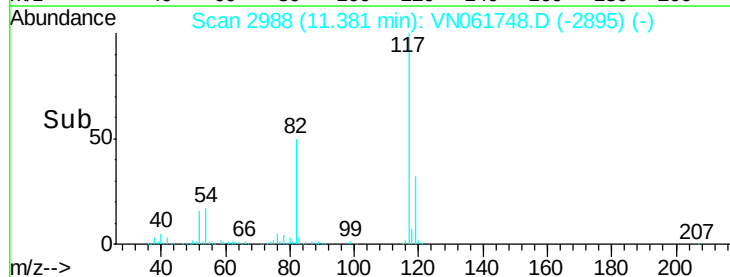
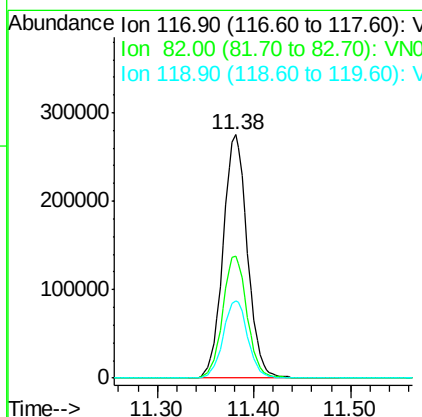
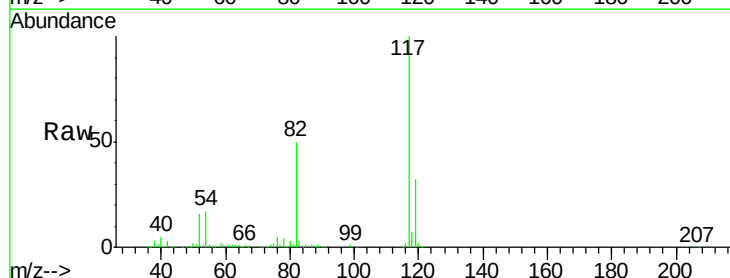
Instrument :
MSVOA_N
ClientSampleId :
RE108D1-20200608

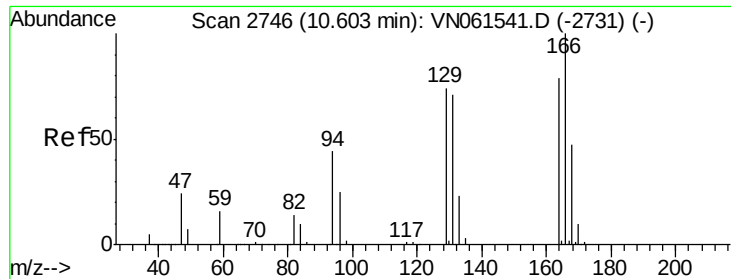
Tot Ion	95	Resp	199212
Ion Ratio	Lower	Upper	
95	100		
174	88.7	0.0	172.8
176	84.6	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061748.D
Acq: 11 Jun 2020 15:40

Tgt Ion	117	Resp	478961
Ion Ratio	Lower	Upper	
117	100		
82	50.1	41.5	62.3
119	31.9	25.6	38.4





#64

Tetrachloroethene

Concen: 1.433 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. 0.00 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200608

Tot Ion:164 Resp: 6459

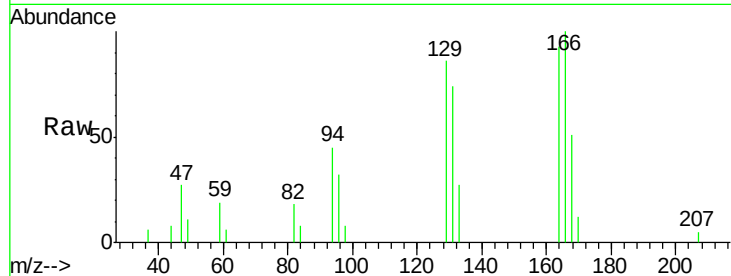
Ion Ratio Lower Upper

164 100

166 107.1 101.5 152.3

129 92.0 74.9 112.3

131 79.1 72.2 108.2

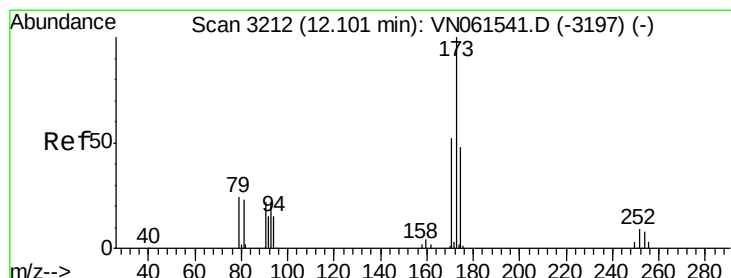
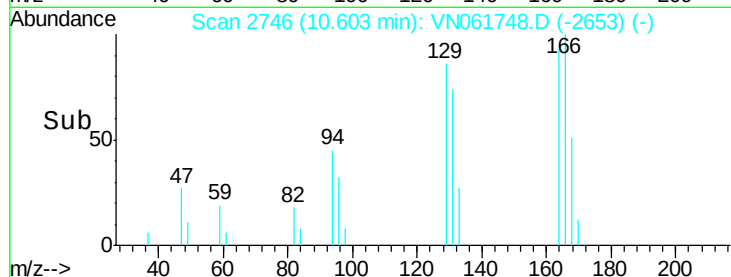
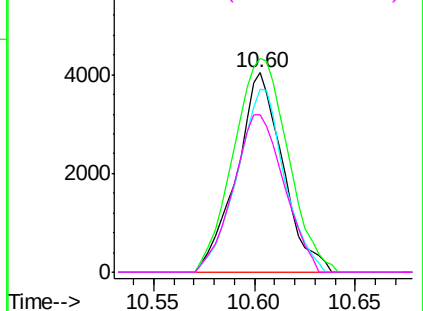


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.559 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

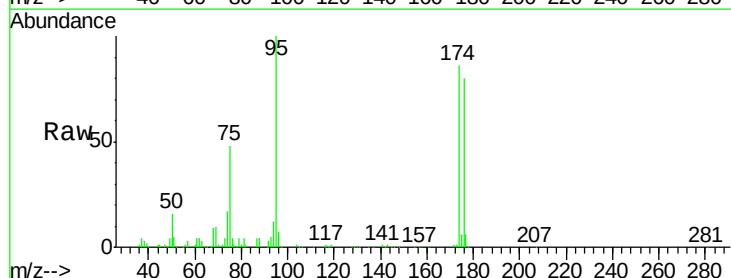
Tgt Ion:173 Resp: 1597

Ion Ratio Lower Upper

173 100

175 679.4 24.4 73.2#

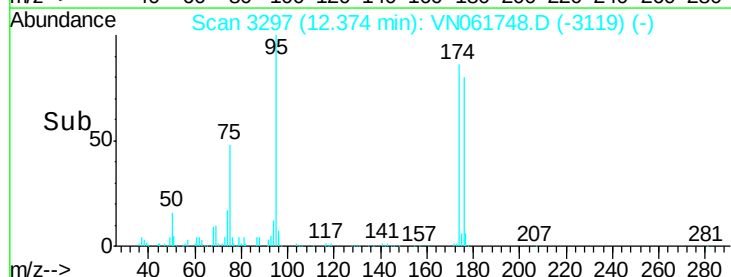
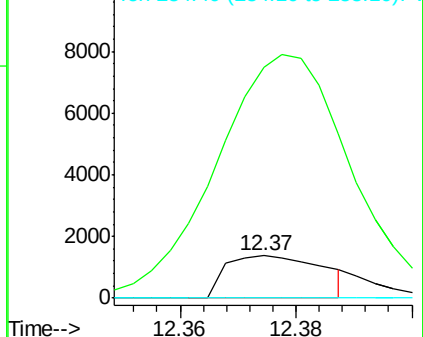
254 0.0 0.0 0.0

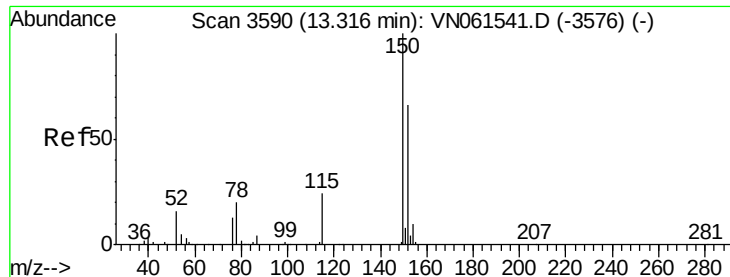


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200608

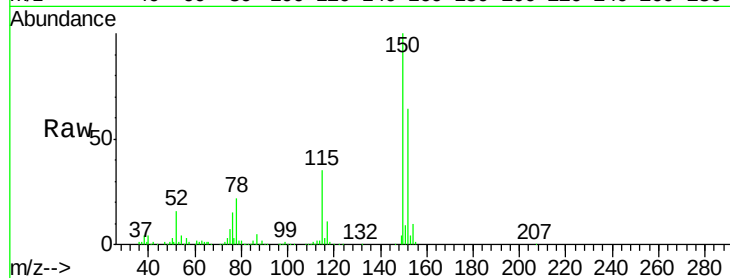
Tot Ion:152 Resp: 207890

Ion Ratio Lower Upper

152 100

115 55.9 28.0 84.0

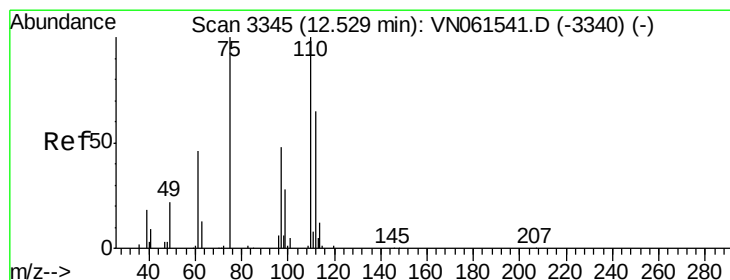
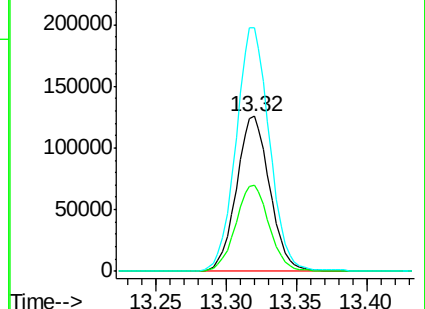
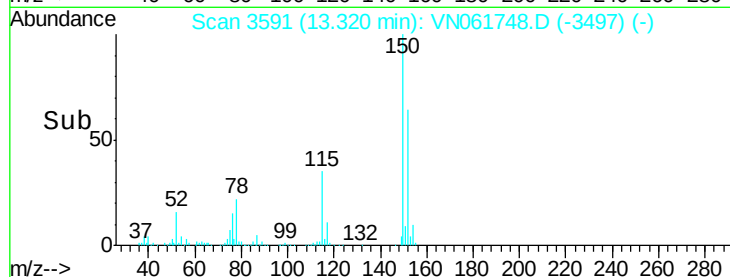
150 158.4 0.0 344.0



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: 25.294 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061748.D

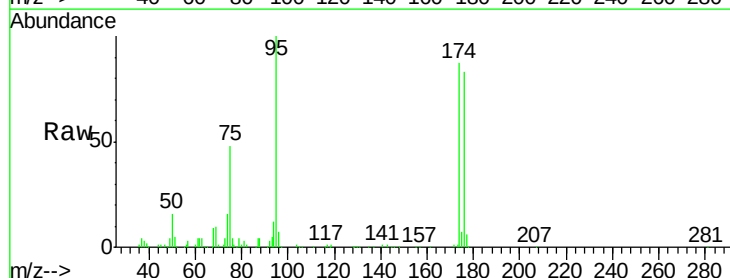
Acq: 11 Jun 2020 15:40

Tgt Ion: 75 Resp: 95618

Ion Ratio Lower Upper

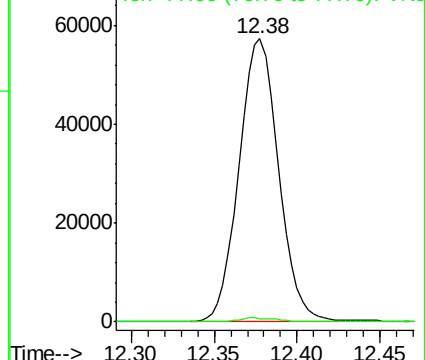
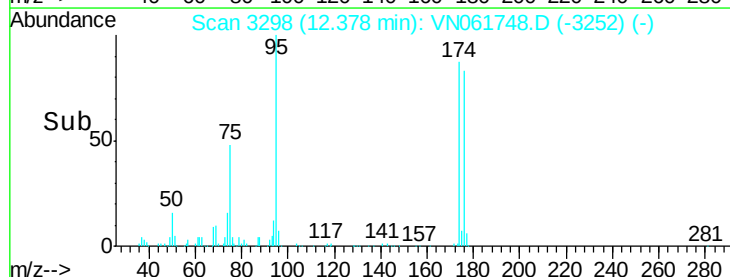
75 100

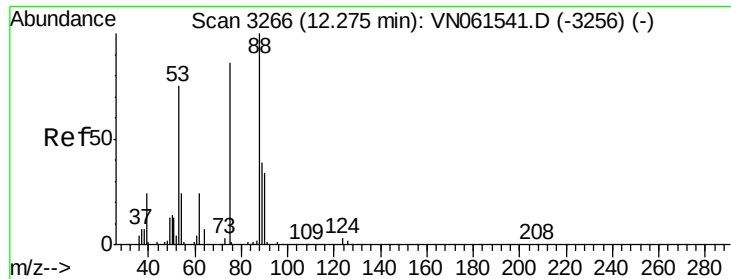
77 1.3 0.0 0.0#



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: 64.684 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061748.D

Acq: 11 Jun 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

RE108D1-20200608

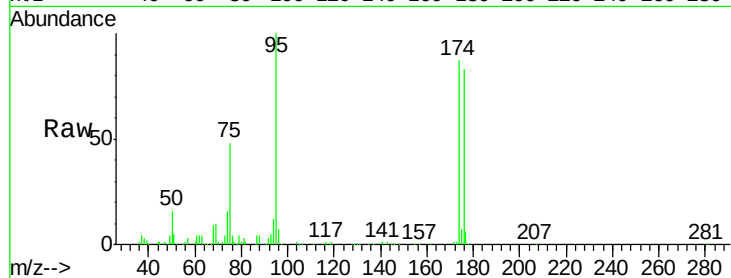
Tot Ion: 75 Resp: 95618

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

