

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061796.D
 Acq On : 12 Jun 2020 17:10
 Operator : JC/MD
 Sample : L2989-02 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D2-20200609

Quant Time: Jun 13 05:13:37 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	276795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	470075	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	465173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	199840	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	155455	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
35) Dibromofluoromethane	7.55	113	136524	57.25	ug/l	0.00
Spiked Amount			Recovery	=	114.50%	
50) Toluene-d8	10.06	98	571842	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	12.38	95	190631	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	

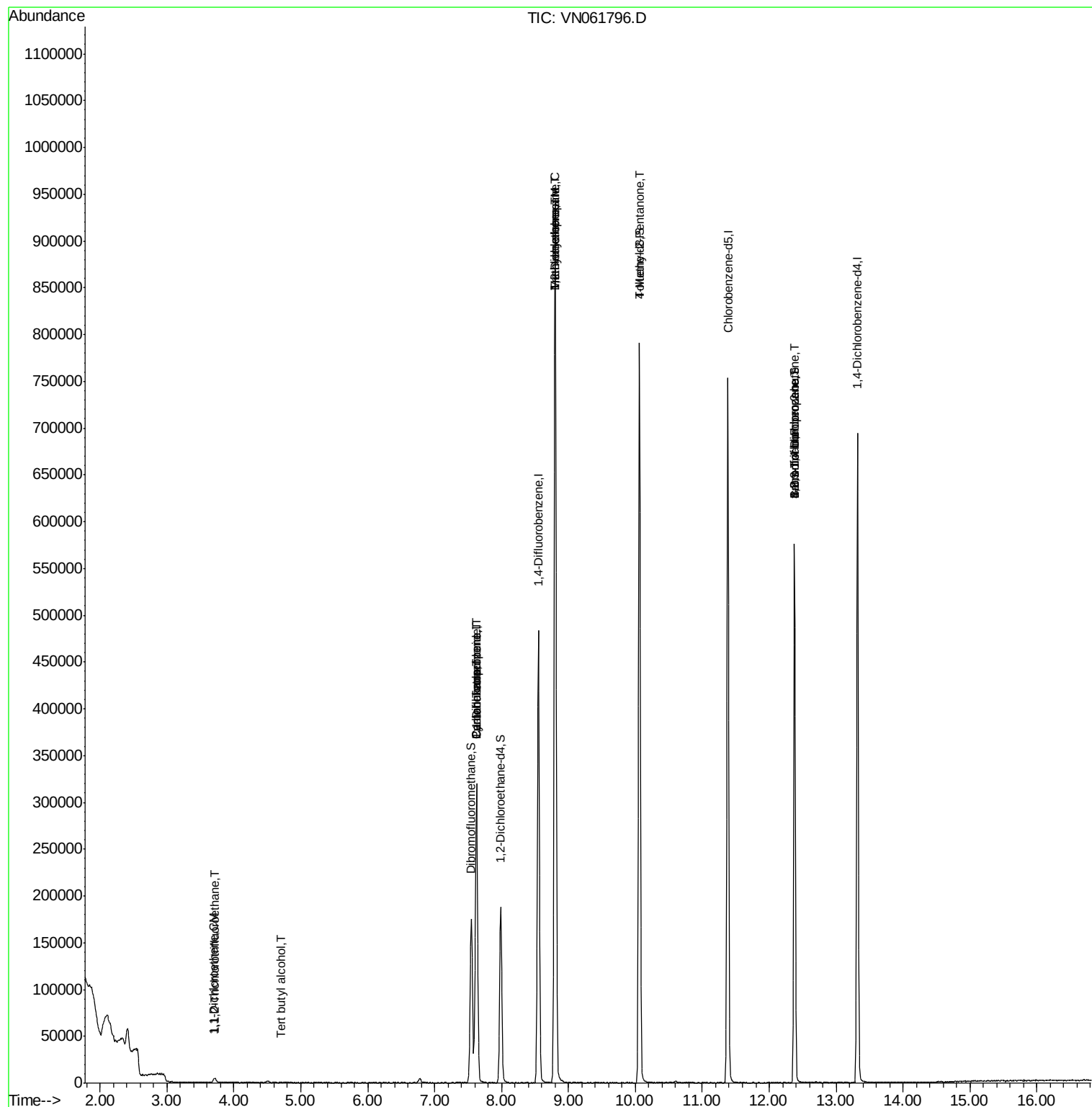
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.71	101	3114	1.176	ug/l	94
11) Tert butyl alcohol	4.71	59	215	0.490	ug/l #	72
12) 1,1-Dichloroethene	3.69	96	670	0.237	ug/l #	61
16) Acetone	3.78	43	1072	Below Cal	#	41
20) Methylene Chloride	4.51	84	1398	Below Cal		87
31) Cyclohexane	7.62	56	4736	1.019	ug/l #	24
36) 1,1-Dichloropropene	7.63	75	18153	4.362	ug/l #	44
38) Carbon Tetrachloride	7.63	117	25830	6.435	ug/l #	17
39) Methylcyclohexane	8.80	83	3816	0.744	ug/l #	1
44) Trichloroethene	8.80	130	367567	93.150	ug/l	95
45) 1,2-Dichloropropane	8.80	63	963	0.316	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	1778	0.523	ug/l #	1
71) Bromoform	12.37	173	805	0.290	ug/l #	28
76) 1,2,3-Trichloropropane	12.38	75	95106	26.172	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	95106	66.929	ug/l #	15

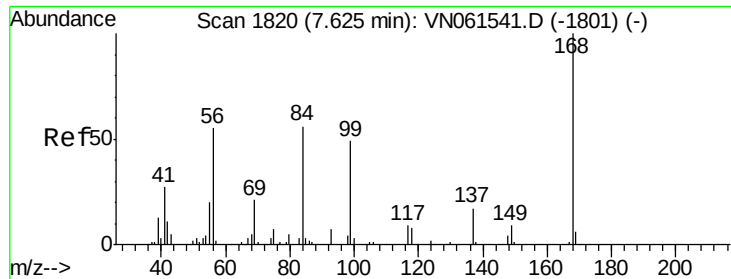
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

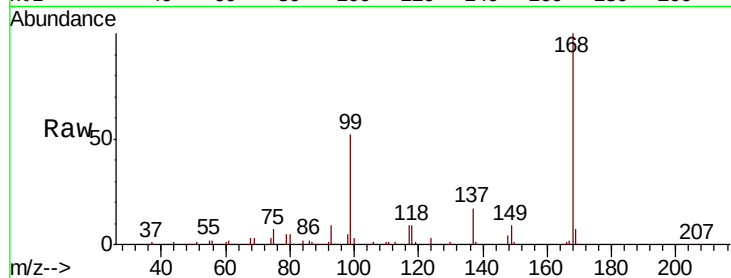
RE105D2-20200609

Tot Ion:168 Resp: 276795

Ion Ratio Lower Upper

168 100

99 51.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

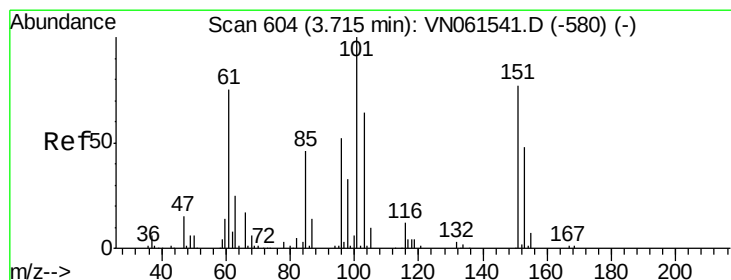
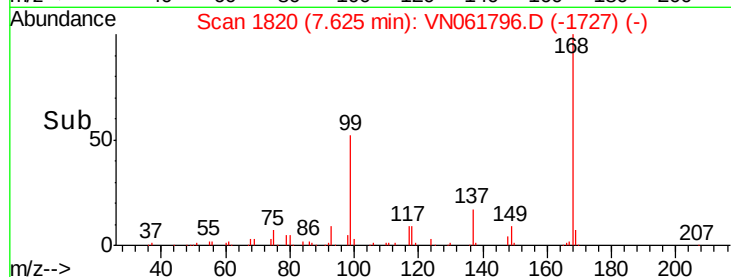
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.176 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

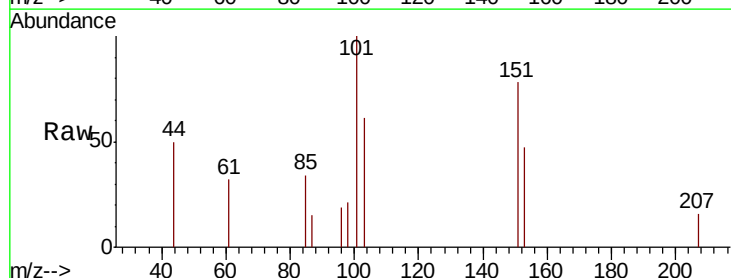
Tgt Ion:101 Resp: 3114

Ion Ratio Lower Upper

101 100

85 40.8 35.2 52.8

151 82.3 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

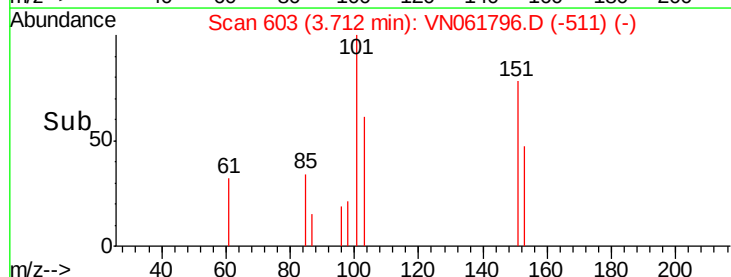
1500

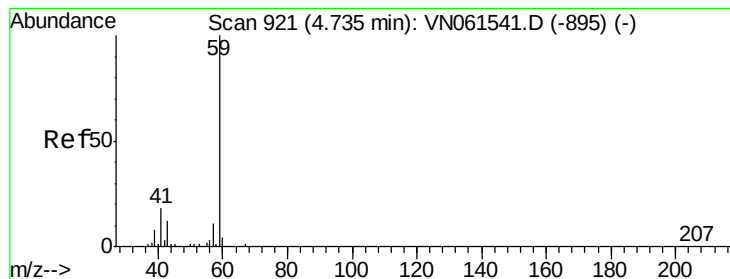
1000

500

0

Time--> 3.65 3.70 3.75



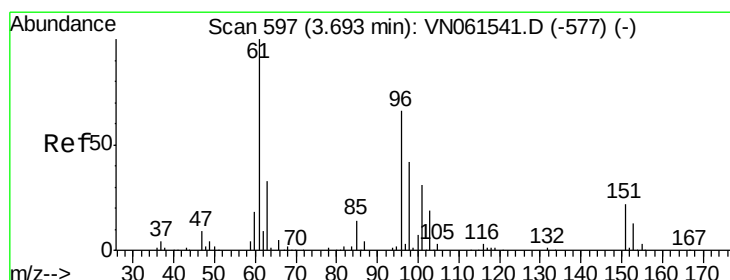
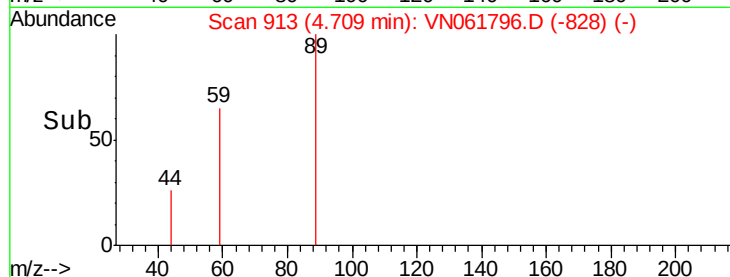
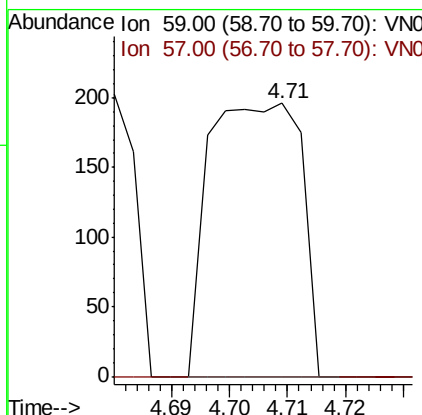
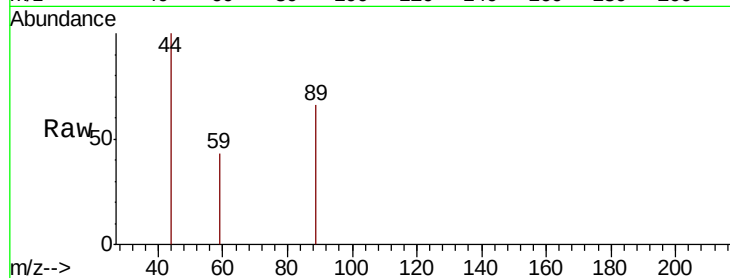


#11

Tert butyl alcohol
Concen: 0.490 ug/l
RT: 4.71 min Scan# 913
Delta R.T. -0.03 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

Instrument :
MSVOA_N
ClientSampleId :
RE105D2-20200609

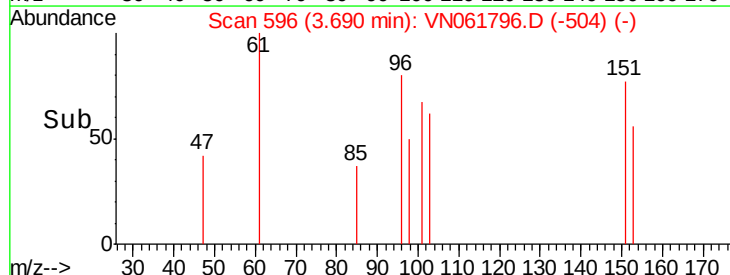
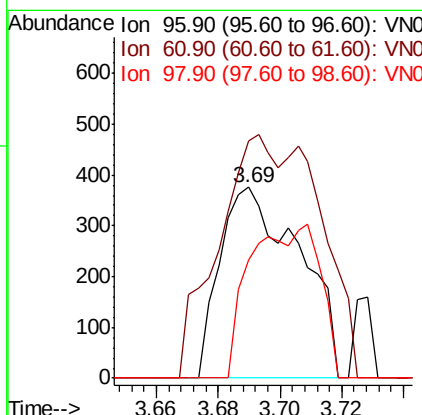
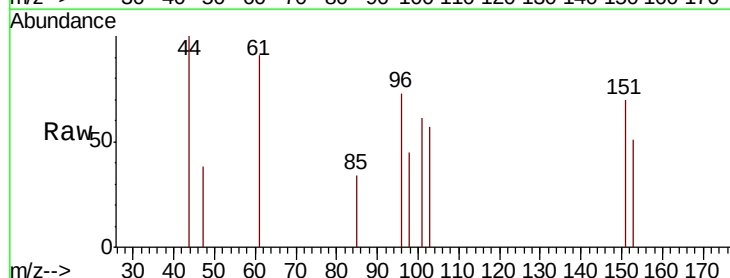
Tot Ion: 59 Resp: 215
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

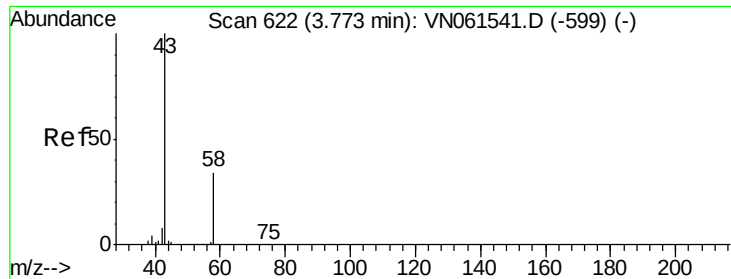


#12

1,1-Dichloroethene
Concen: 0.237 ug/l
RT: 3.69 min Scan# 596
Delta R.T. -0.00 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

Tgt Ion: 96 Resp: 670
Ion Ratio Lower Upper
96 100
61 80.9 120.5 180.7#
98 62.0 50.8 76.2





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

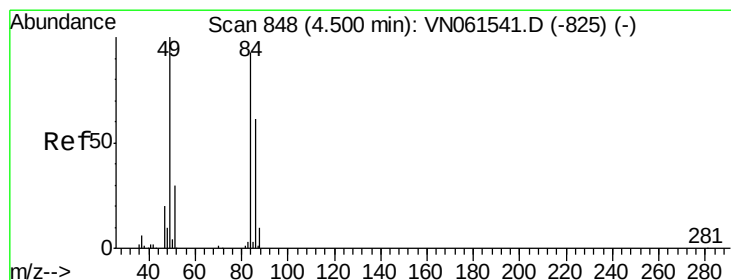
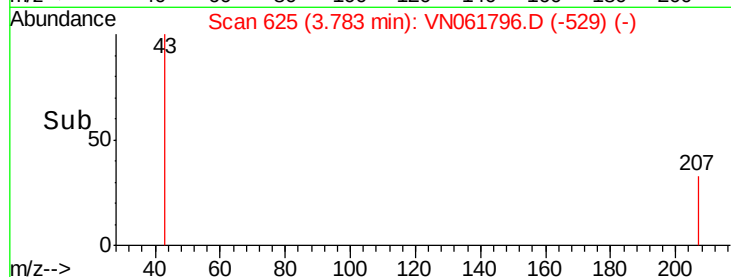
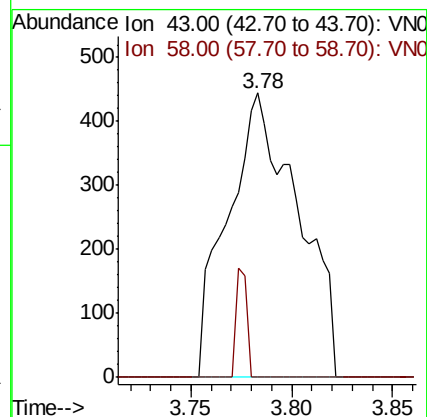
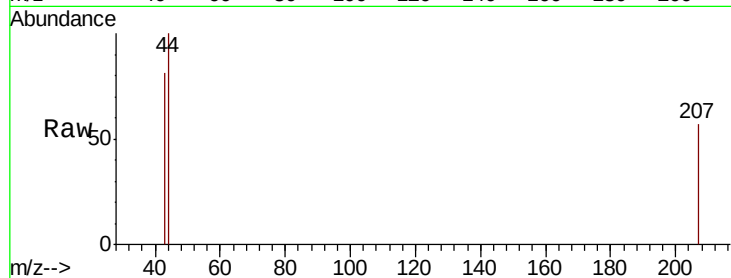
RE105D2-20200609

Tot Ion: 43 Resp: 1072

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 851

Delta R.T. 0.01 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Tgt Ion: 84 Resp: 1398

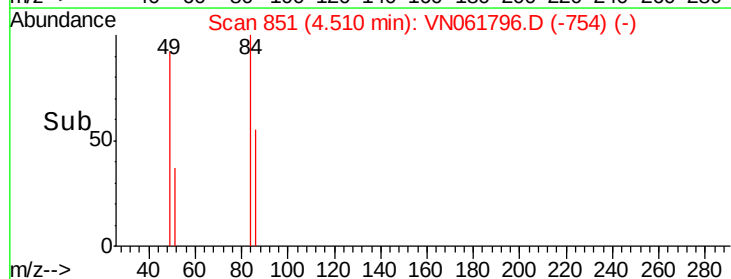
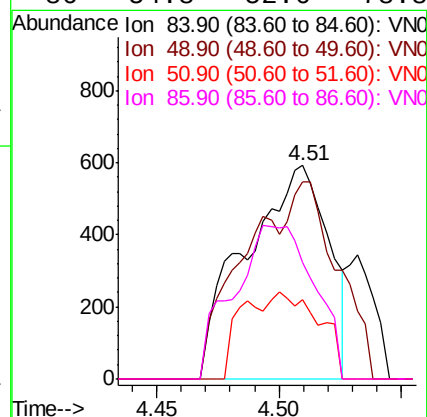
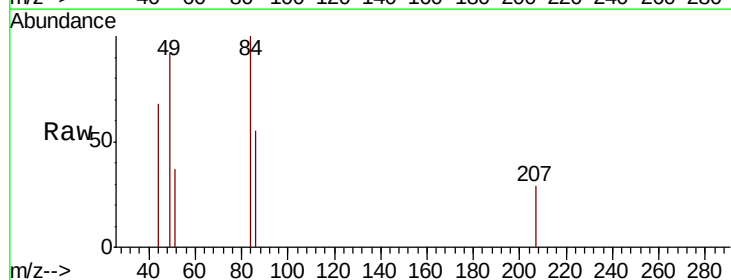
Ion Ratio Lower Upper

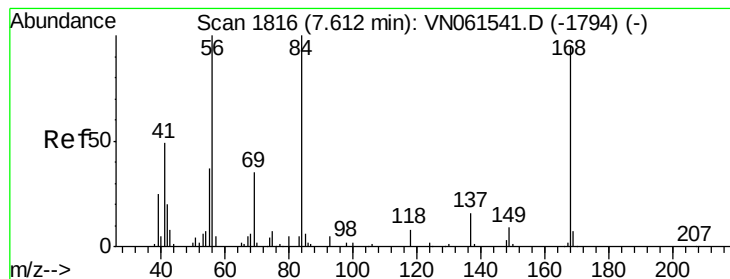
84 100

49 92.1 85.8 128.8

51 36.9 26.2 39.2

86 54.8 52.6 78.8





#31

Cyclohexane

Concen: 1.019 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

RE105D2-20200609

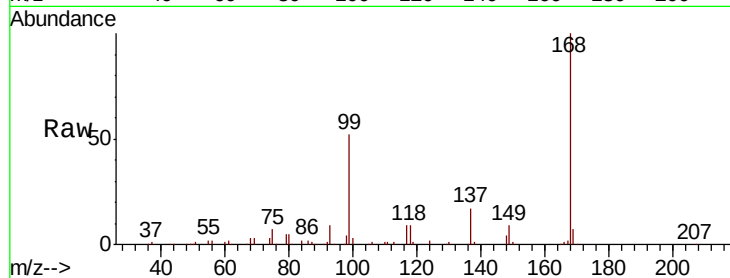
Tot Ion: 56 Resp: 4736

Ion Ratio Lower Upper

56 100

69 167.5 27.8 41.8#

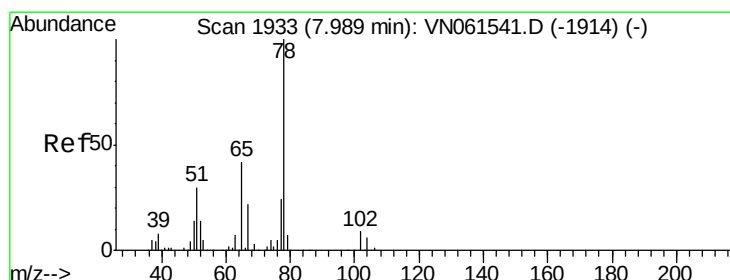
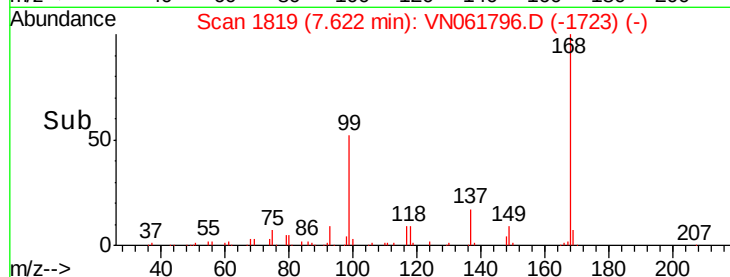
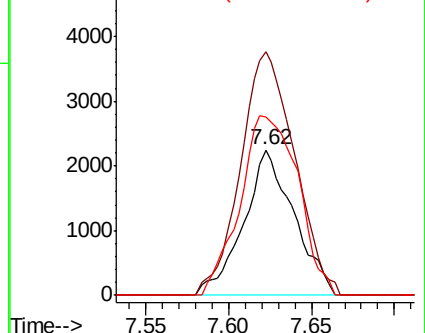
84 123.1 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061796.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061796.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061796.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.138 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061796.D

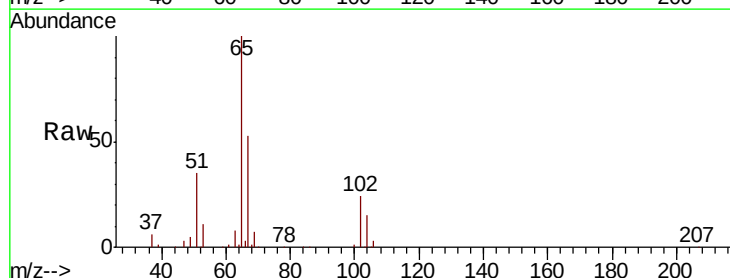
Acq: 12 Jun 2020 17:10

Tgt Ion: 65 Resp: 155455

Ion Ratio Lower Upper

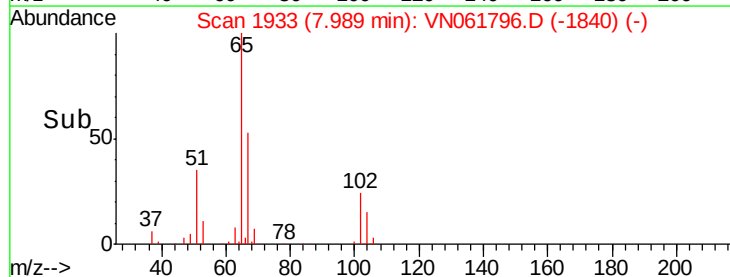
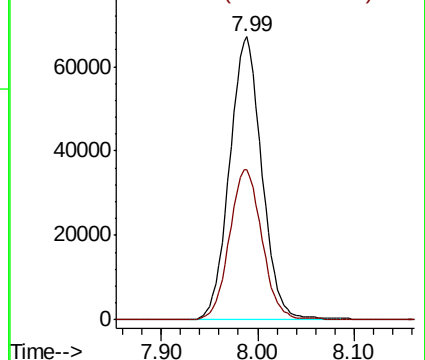
65 100

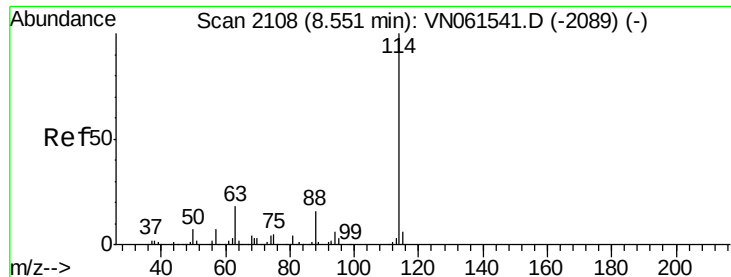
67 53.7 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061796.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061796.D (-1840) (-)

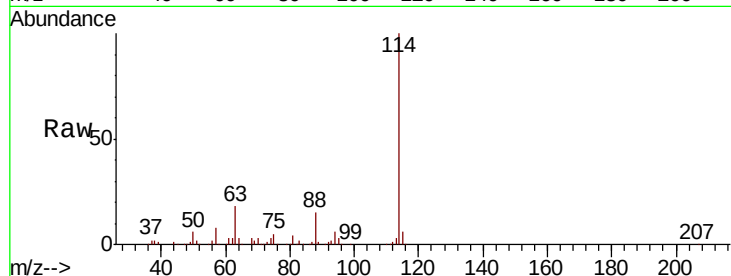




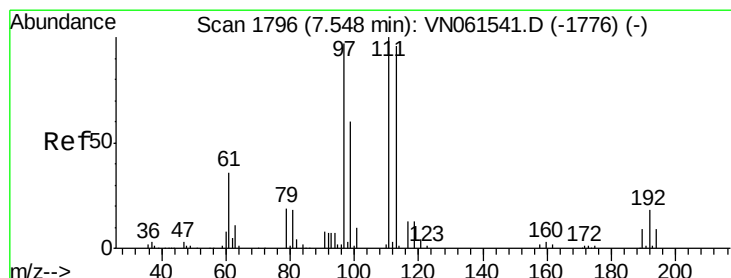
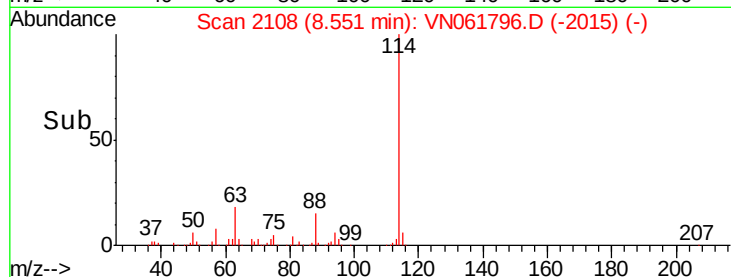
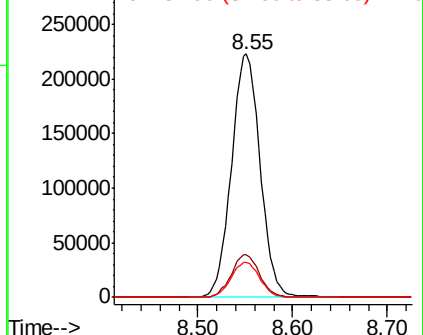
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061796.D
 Acq: 12 Jun 2020 17:10

Instrument :
 MSVOA_N
 ClientSampleId :
 RE105D2-20200609

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.8
88	14.5	0.0	31.0

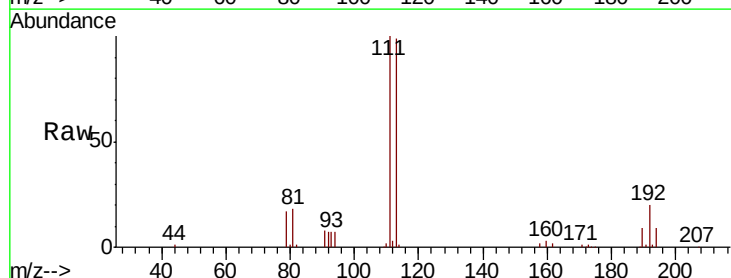


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

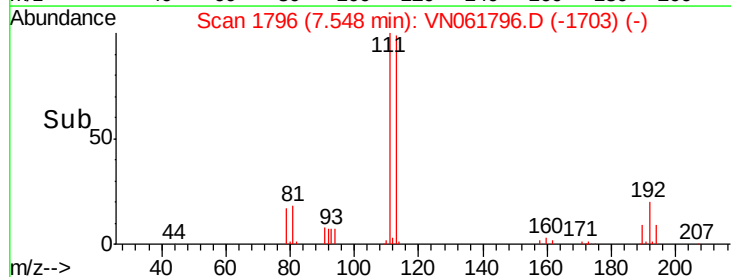
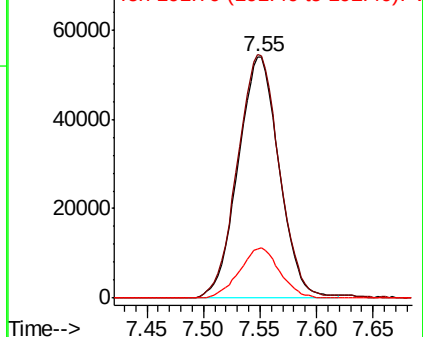


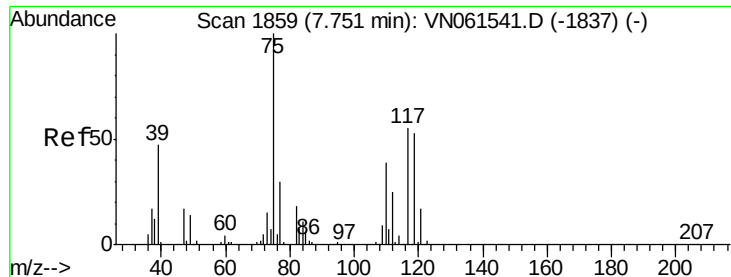
#35
 Dibromofluoromethane
 Concen: 57.252 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061796.D
 Acq: 12 Jun 2020 17:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.4	125.0
192	20.5	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

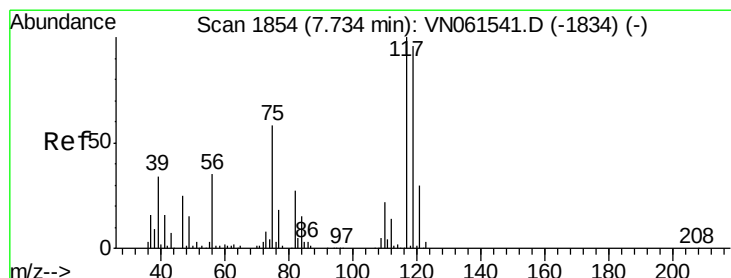
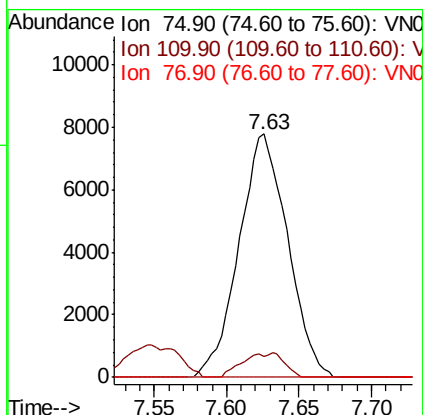
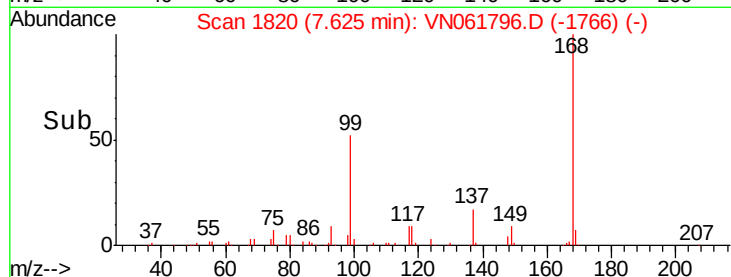
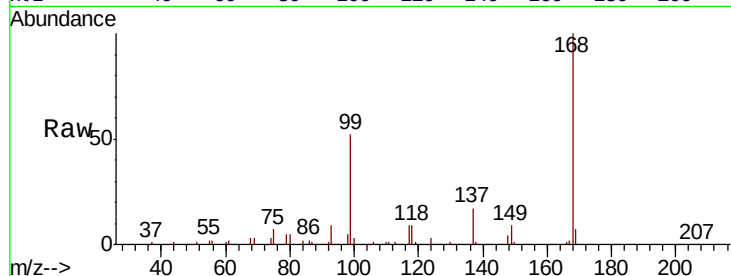




#36
 1,1-Dichloropropene
 Concen: 4.362 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061796.D
 Acq: 12 Jun 2020 17:10

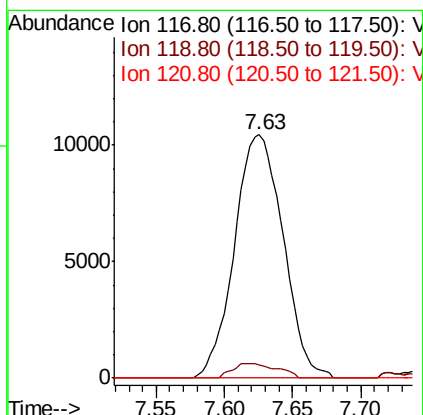
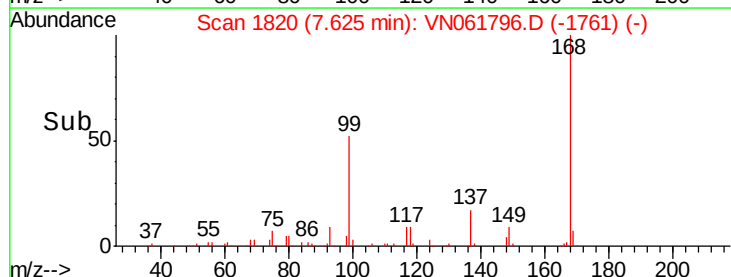
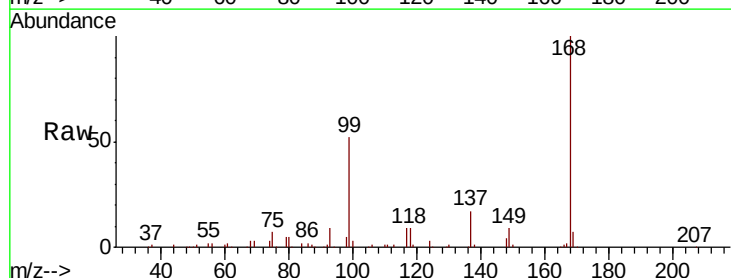
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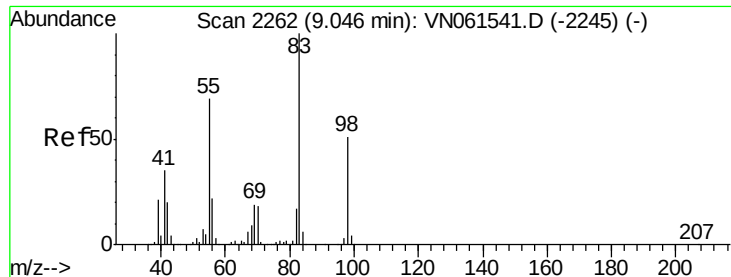
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.7	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.435 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061796.D
 Acq: 12 Jun 2020 17:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.5	114.7#
121	0.0	24.1	36.1#

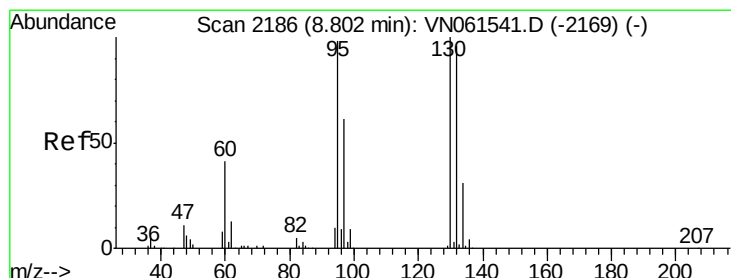
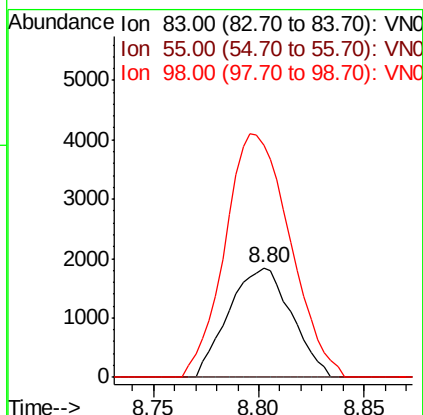
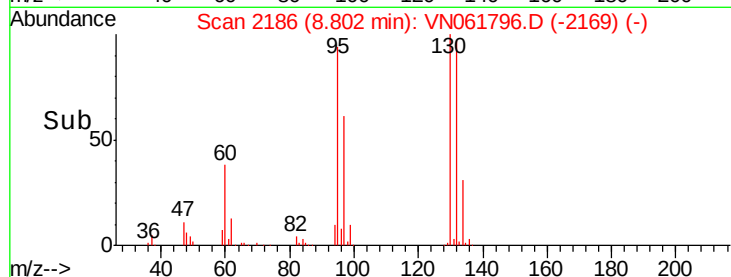
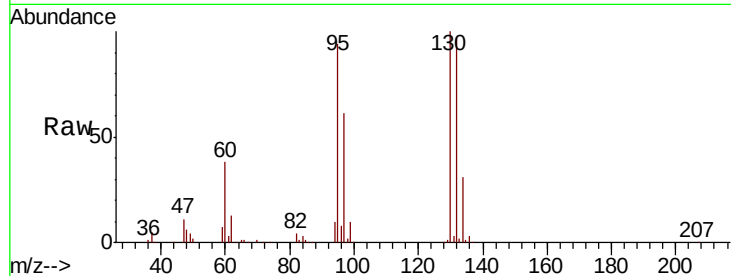




#39
Methylcyclohexane
Concen: 0.744 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

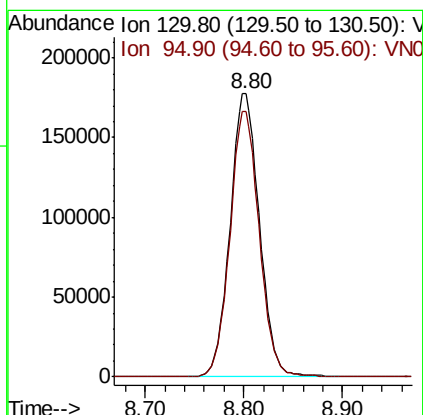
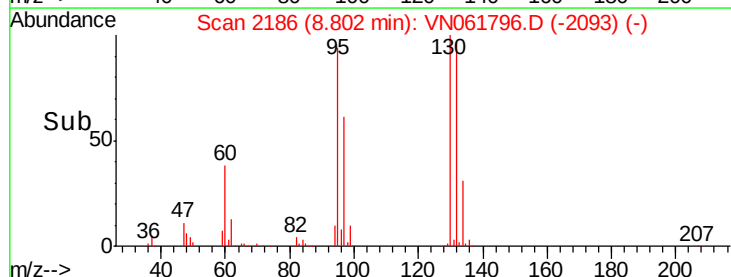
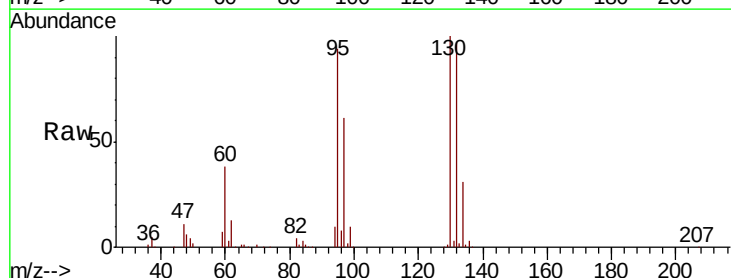
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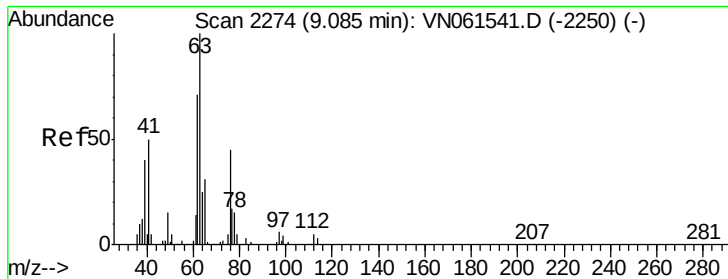
Tot Ion: 83 Resp: 3816
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 202.3 41.0 61.4#



#44
Trichloroethene
Concen: 93.150 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

Tgt Ion:130 Resp: 367567
Ion Ratio Lower Upper
130 100
95 93.7 0.0 196.6





#45

1,2-Dichloropropane

Concen: 0.316 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.29 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

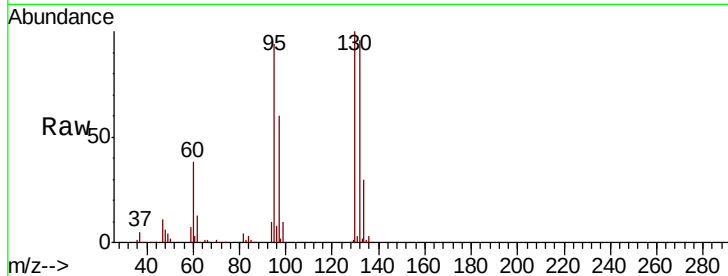
RE105D2-20200609

Tot Ion: 63 Resp: 963

Ion Ratio Lower Upper

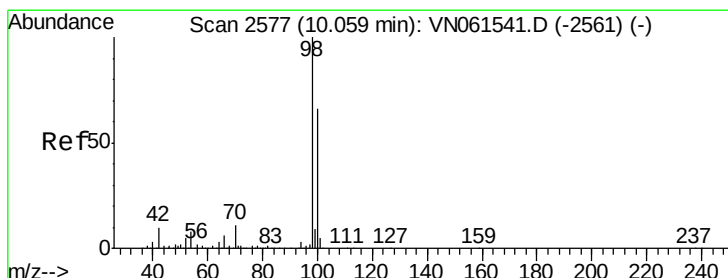
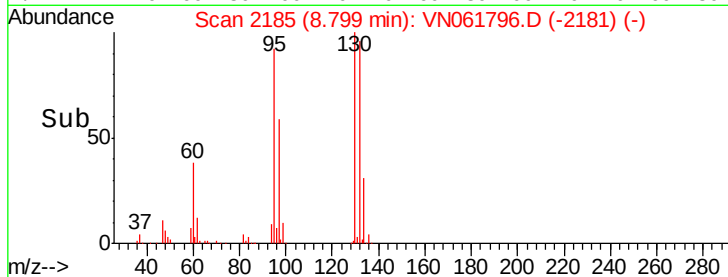
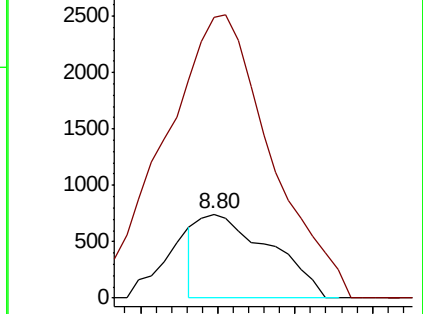
63 100

65 298.8 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#50

Toluene-d8

Concen: 51.748 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061796.D

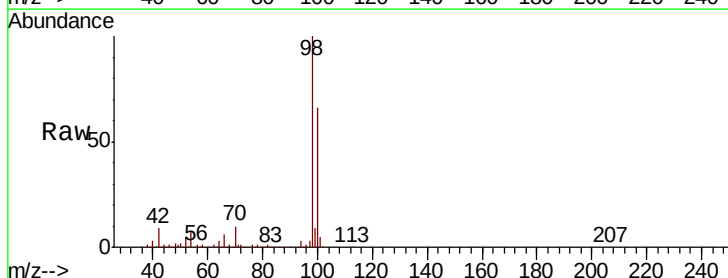
Acq: 12 Jun 2020 17:10

Tgt Ion: 98 Resp: 571842

Ion Ratio Lower Upper

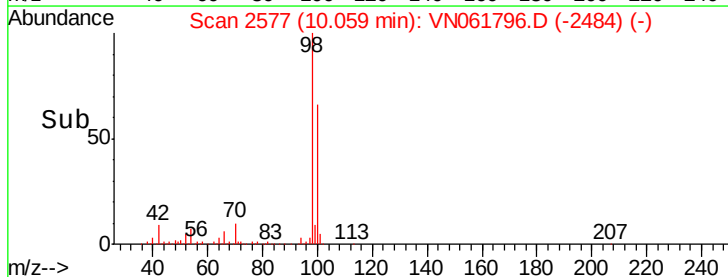
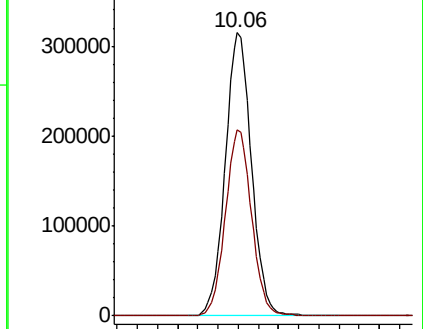
98 100

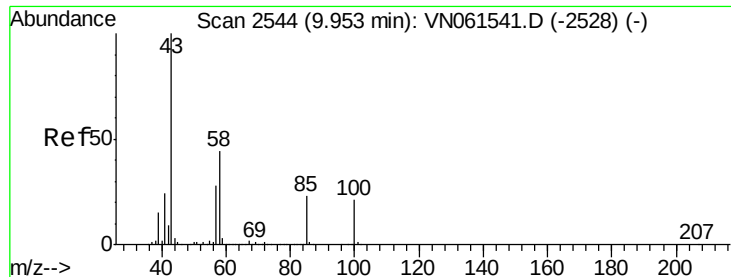
100 65.7 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.523 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

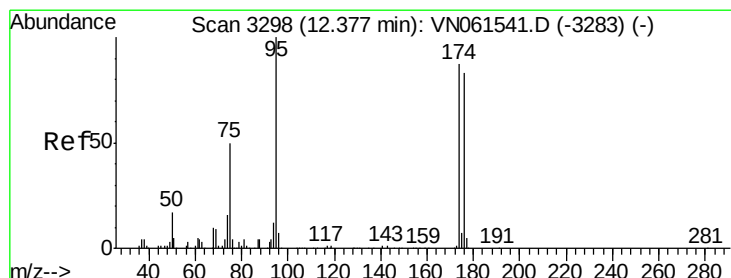
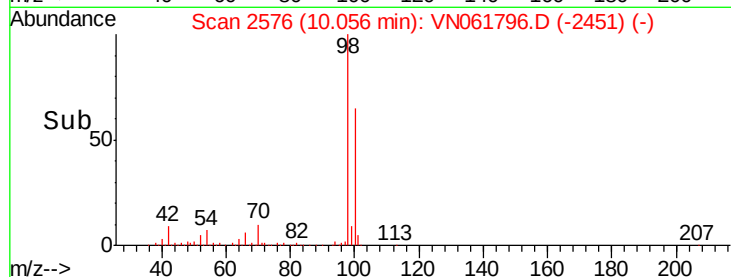
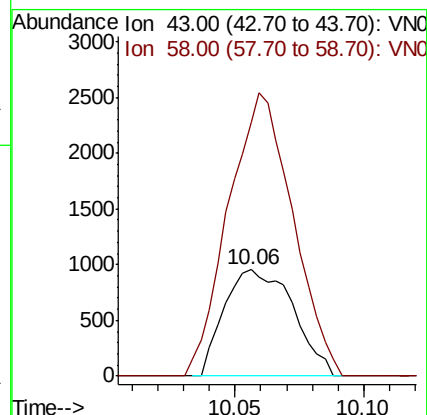
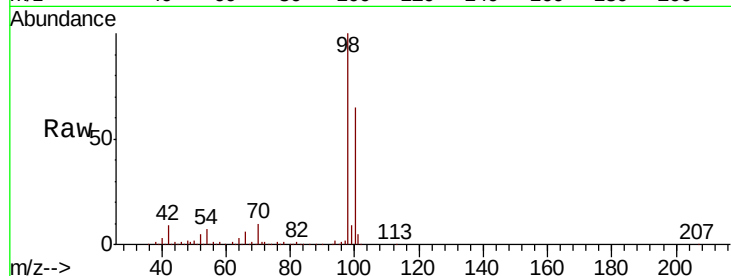
RE105D2-20200609

Tot Ion: 43 Resp: 1778

Ion Ratio Lower Upper

43 100

58 248.9 35.0 52.6#



#62

4-Bromofluorobenzene

Concen: 47.284 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

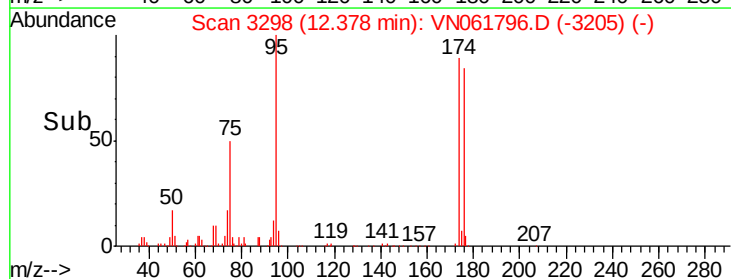
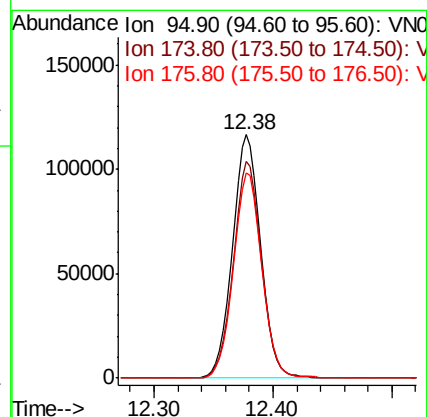
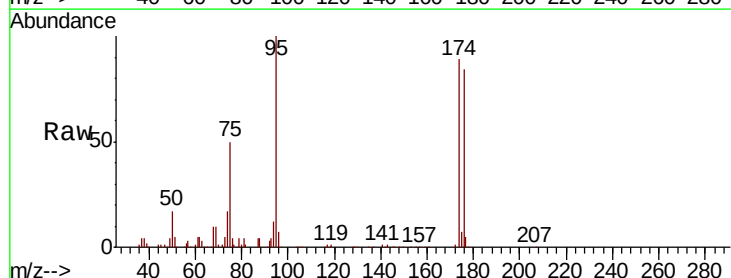
Tgt Ion: 95 Resp: 190631

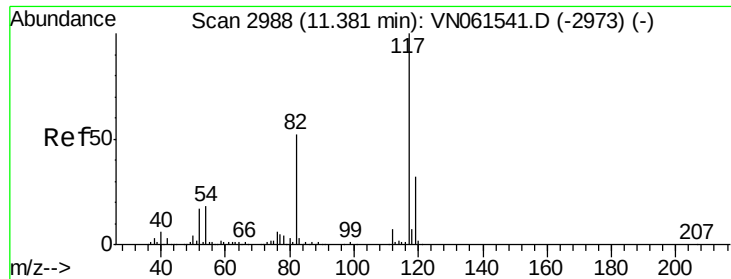
Ion Ratio Lower Upper

95 100

174 89.0 0.0 172.8

176 85.4 0.0 164.8

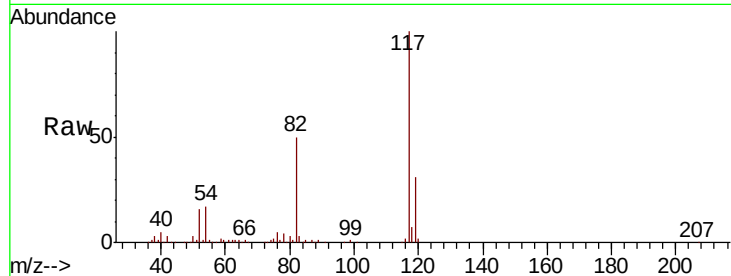




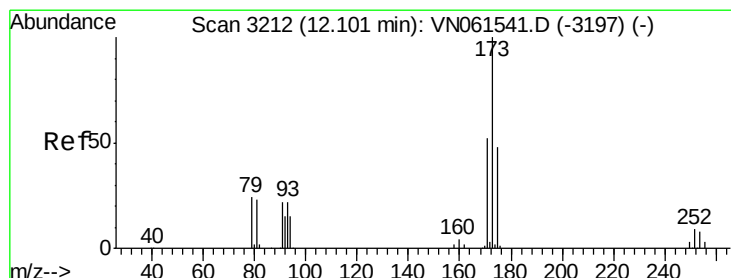
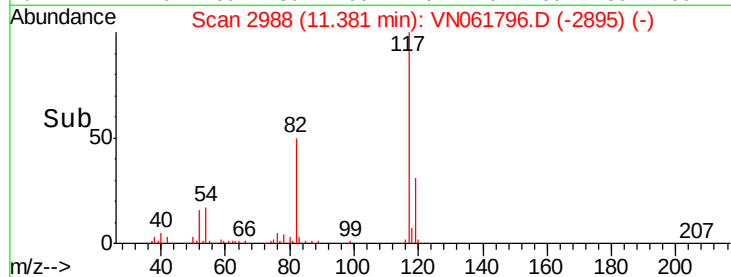
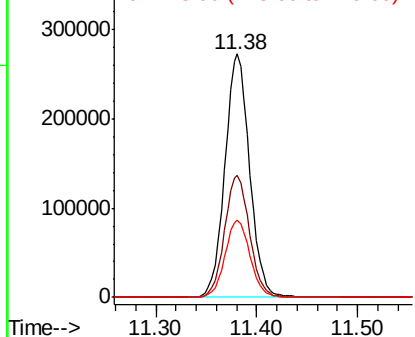
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

Instrument :
MSVOA_N
ClientSampleId :
RE105D2-20200609

Tot Ion:117 Resp: 465173
Ion Ratio Lower Upper
117 100
82 50.0 41.5 62.3
119 31.5 25.6 38.4

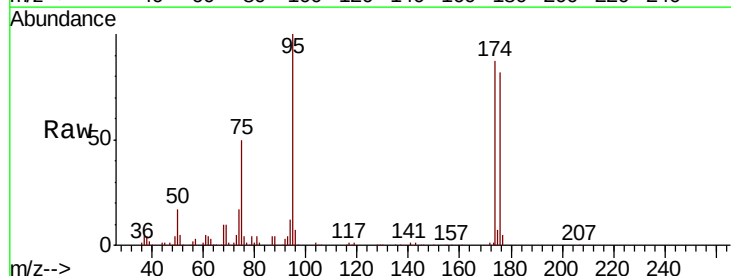


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

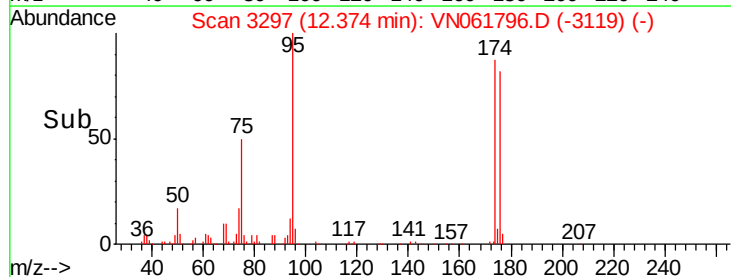
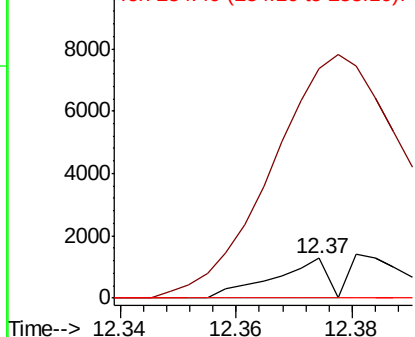


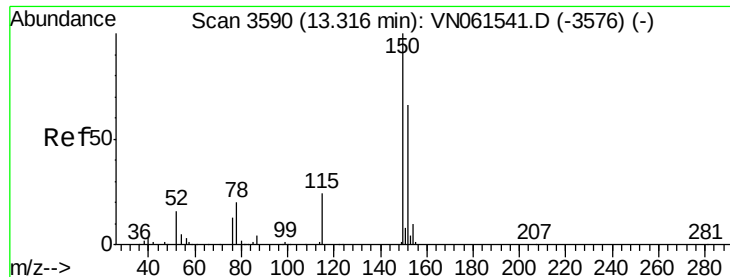
#71
Bromoform
Concen: 0.290 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061796.D
Acq: 12 Jun 2020 17:10

Tgt Ion:173 Resp: 805
Ion Ratio Lower Upper
173 100
175 0.0 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: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

RE105D2-20200609

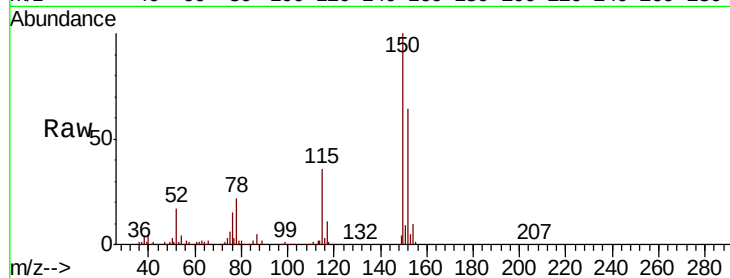
Tot Ion:152 Resp: 199840

Ion Ratio Lower Upper

152 100

115 55.2 28.0 84.0

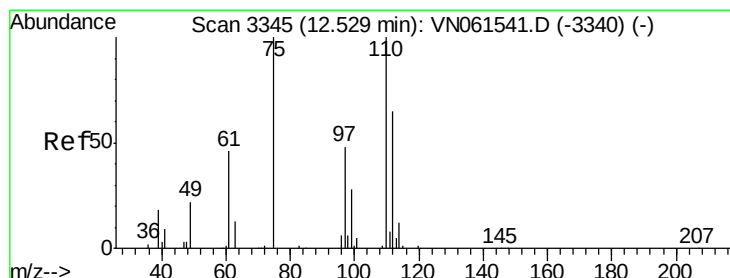
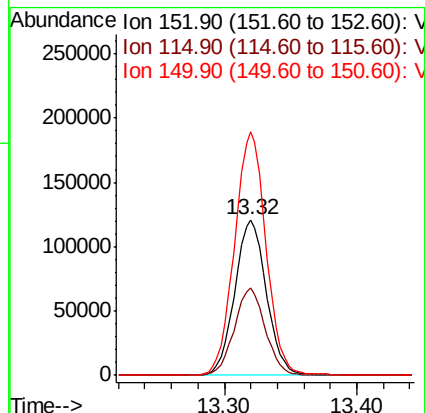
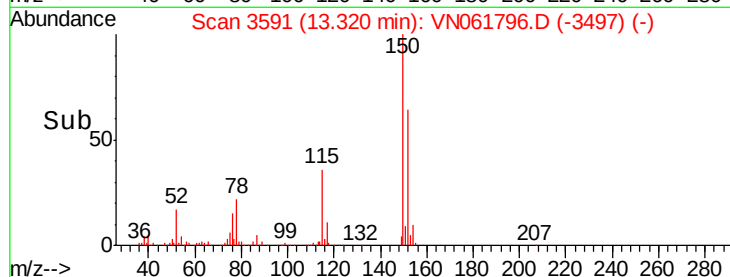
150 155.7 0.0 344.0



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: 26.172 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061796.D

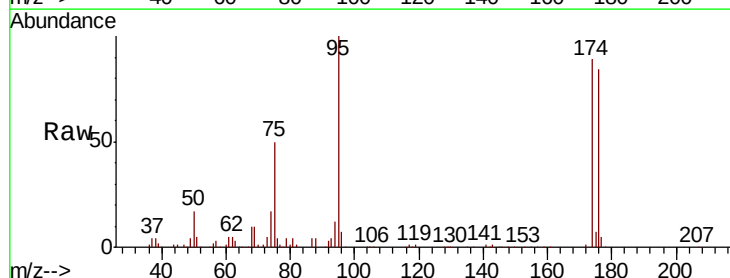
Acq: 12 Jun 2020 17:10

Tgt Ion: 75 Resp: 95106

Ion Ratio Lower Upper

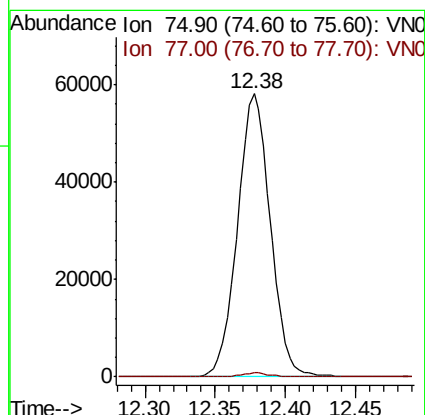
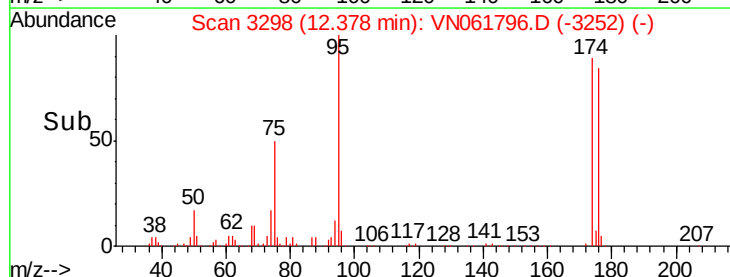
75 100

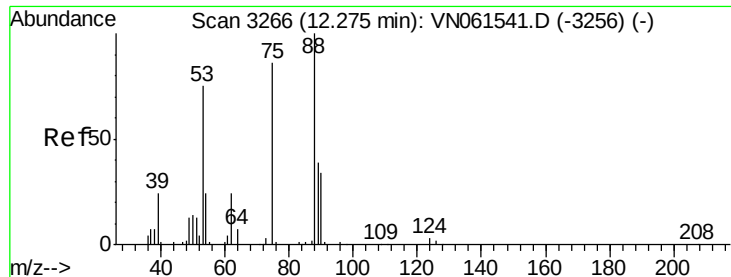
77 1.2 0.0 0.0#



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: 66.929 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061796.D

Acq: 12 Jun 2020 17:10

Instrument :

MSVOA_N

ClientSampleId :

RE105D2-20200609

Tot Ion: 75 Resp: 95106

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#

